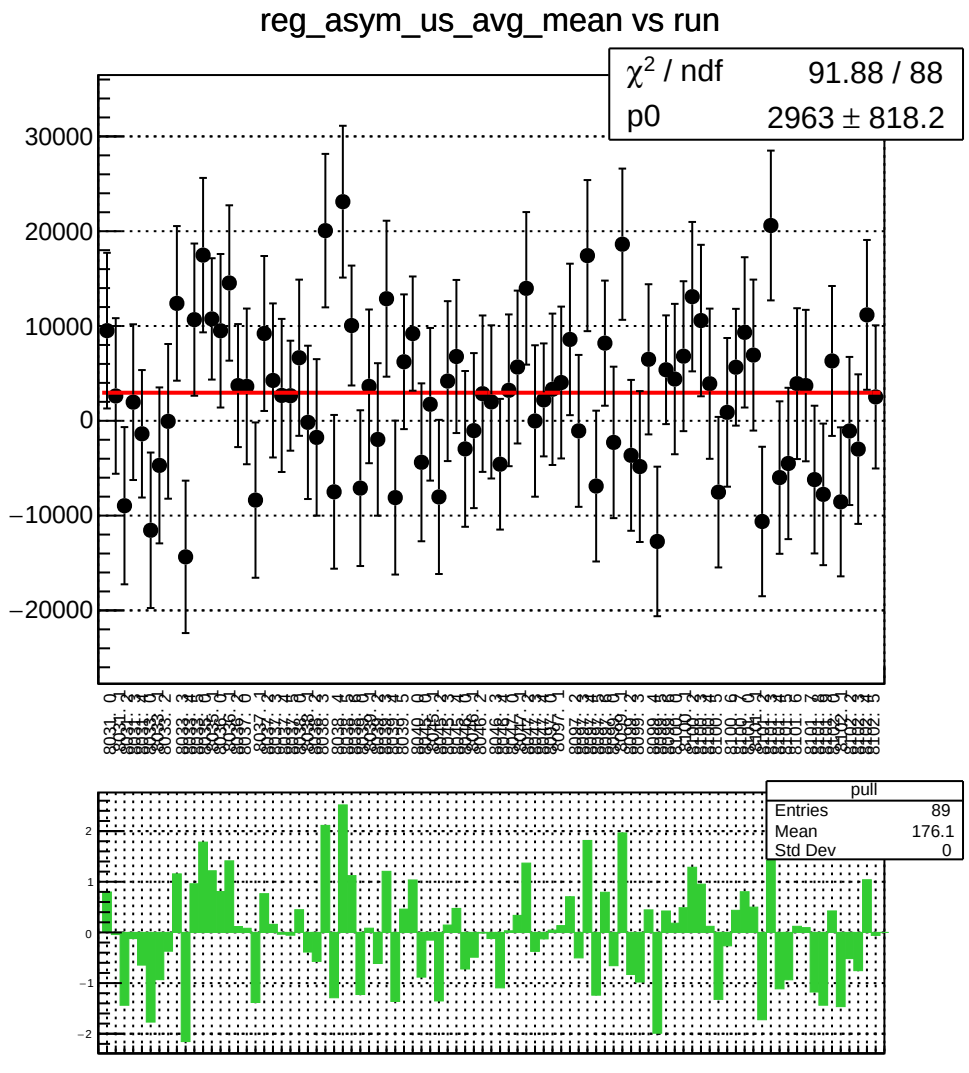
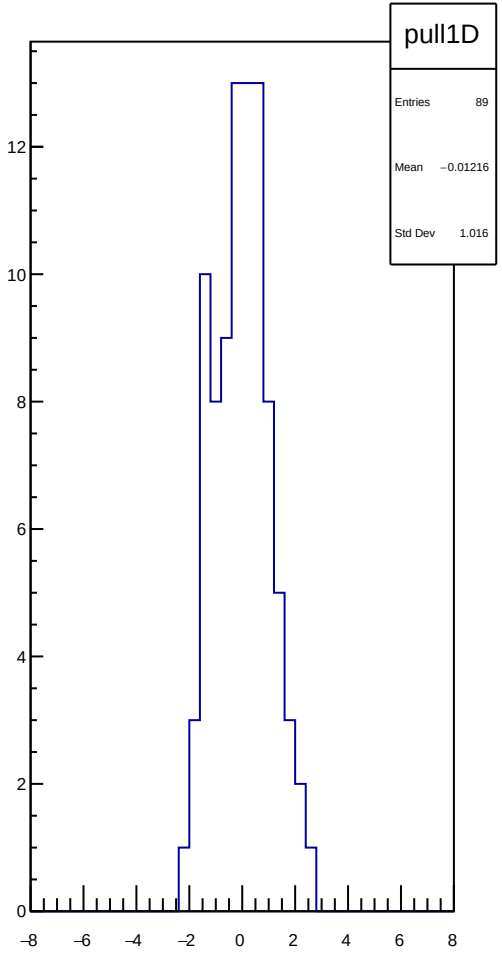
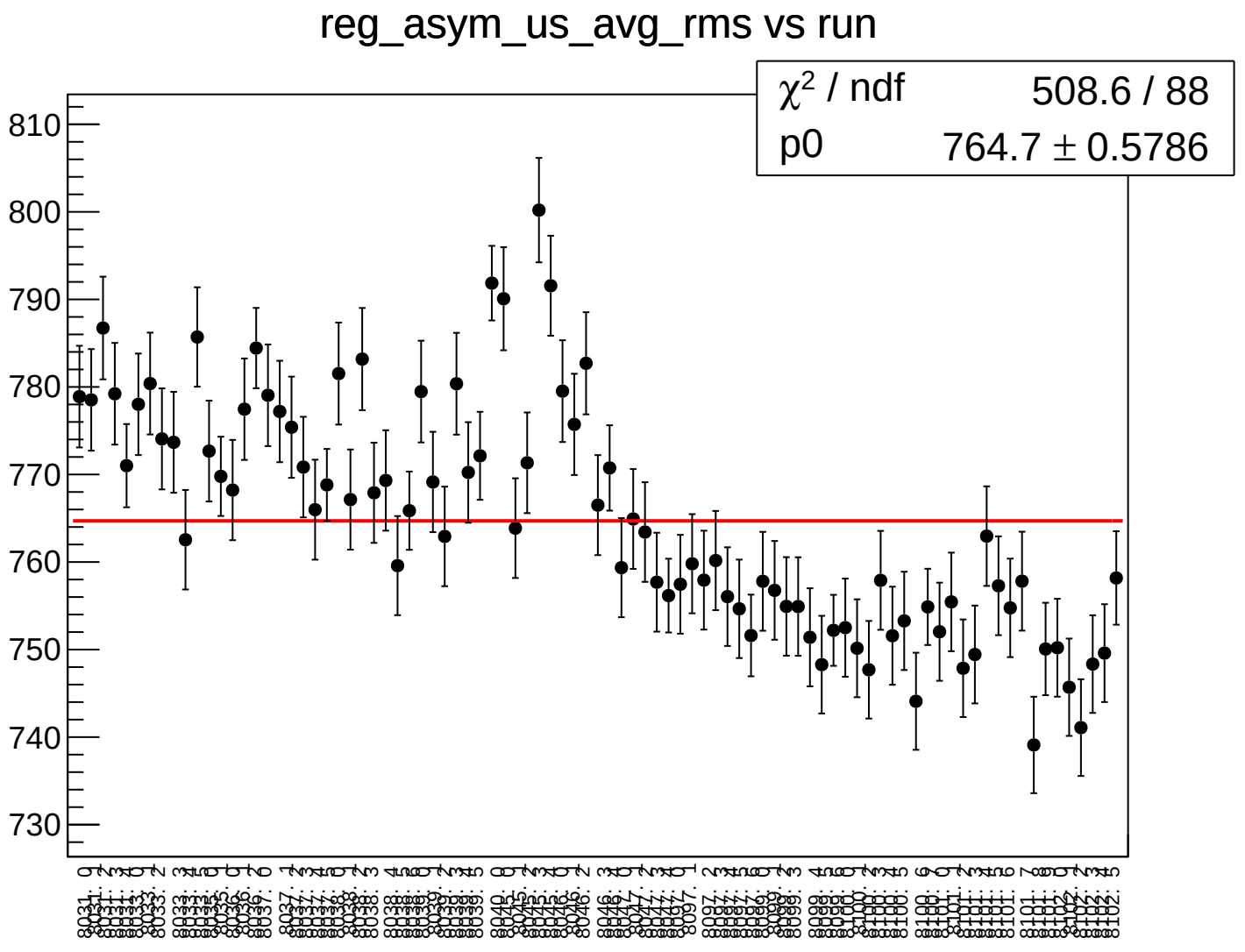
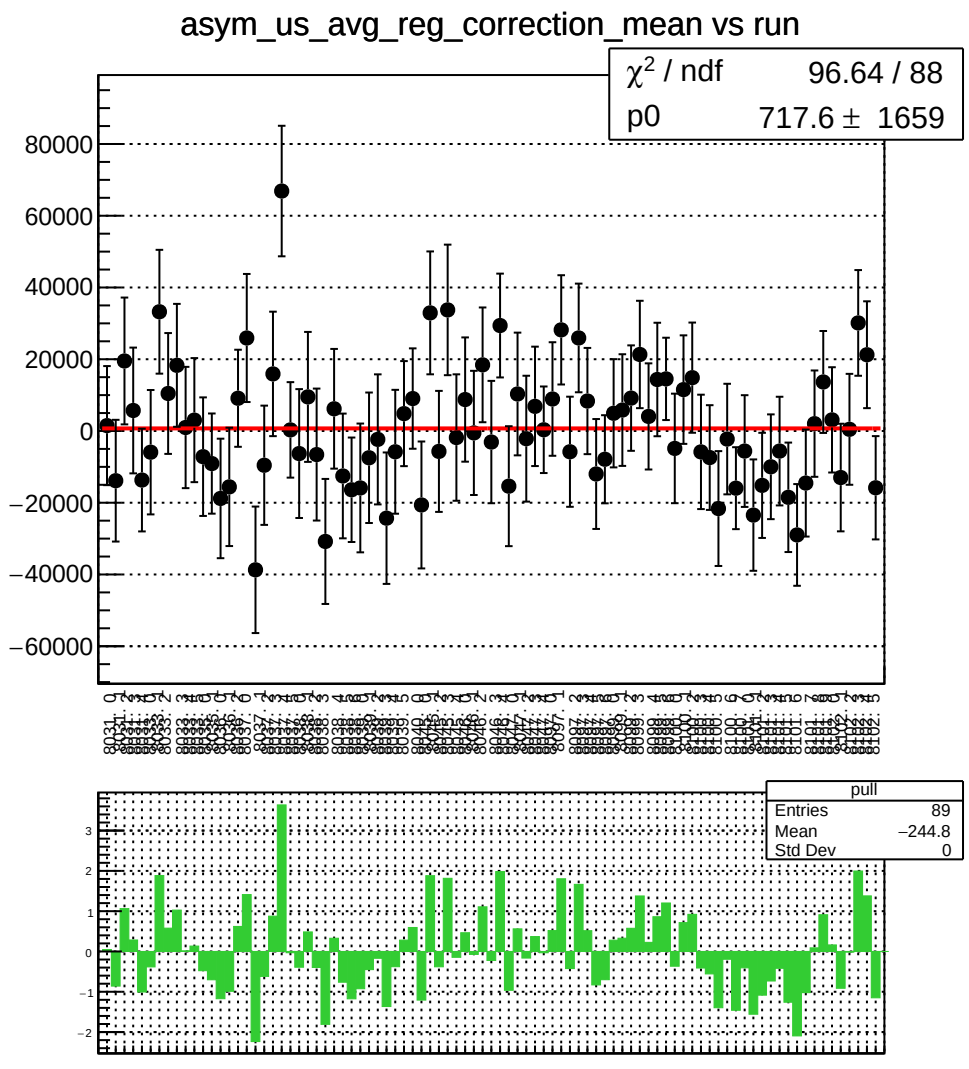
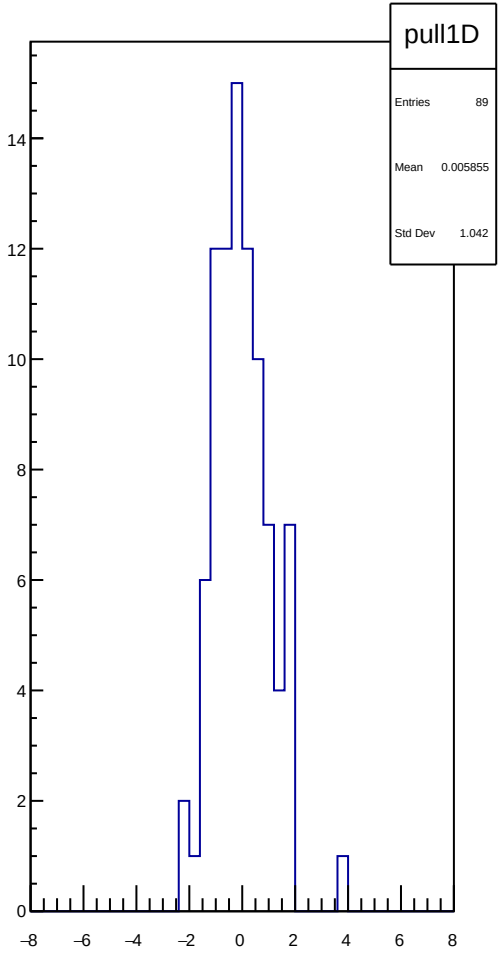
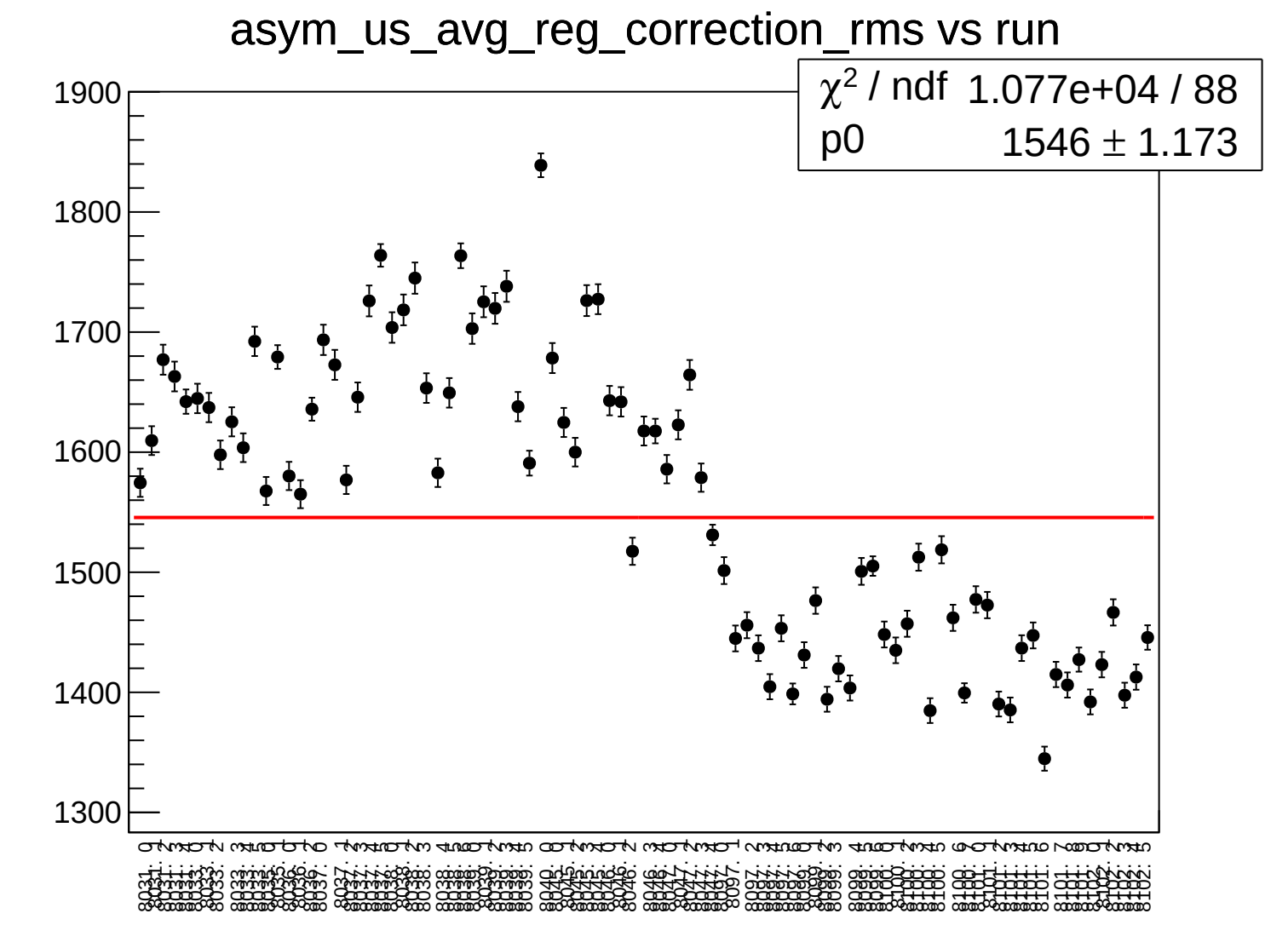

reg_asym_us_avg_mean vs run
$\chi^2$ / ndf 91.88 / 88
p0 2963 ± 818.2
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 176.1
Std Dev 0
2
1
0
−1
−2

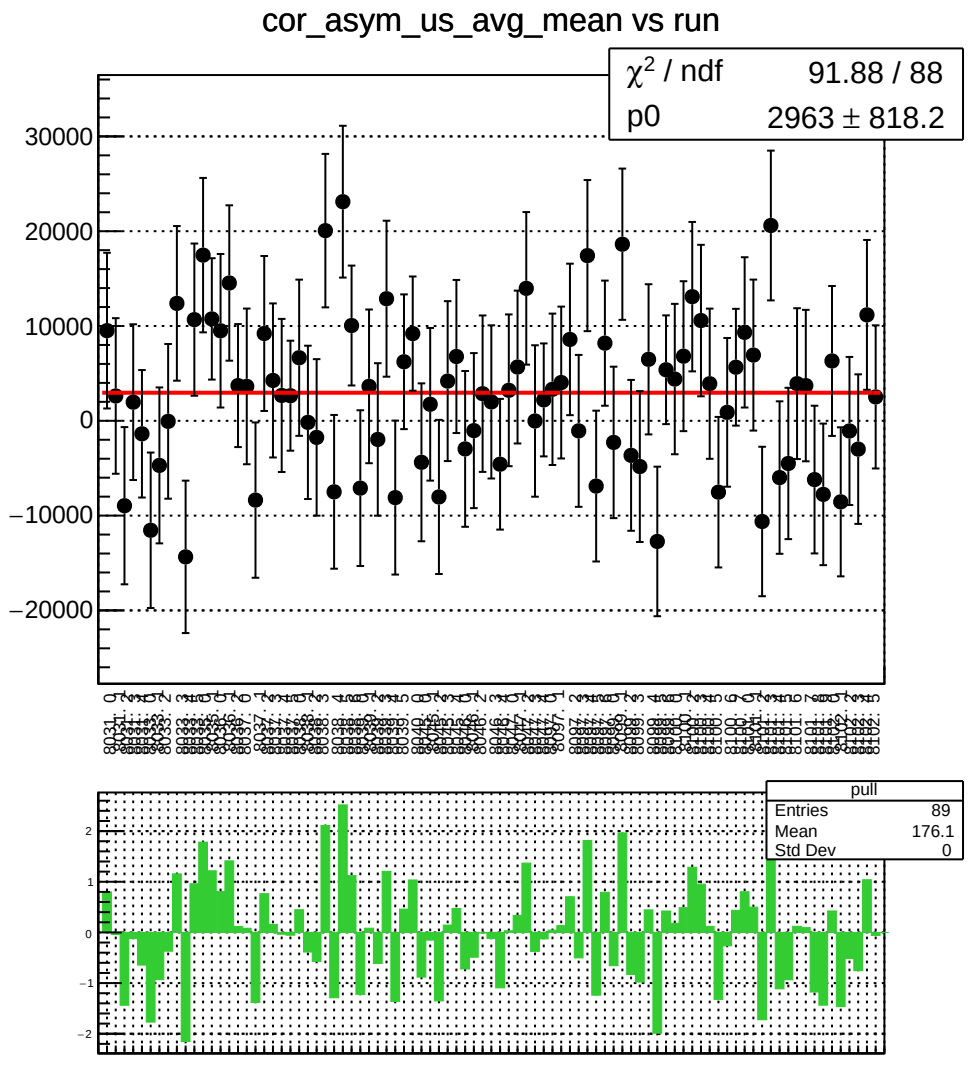

pull1D
Entries 89
Mean −0.01216
Std Dev 1.016
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

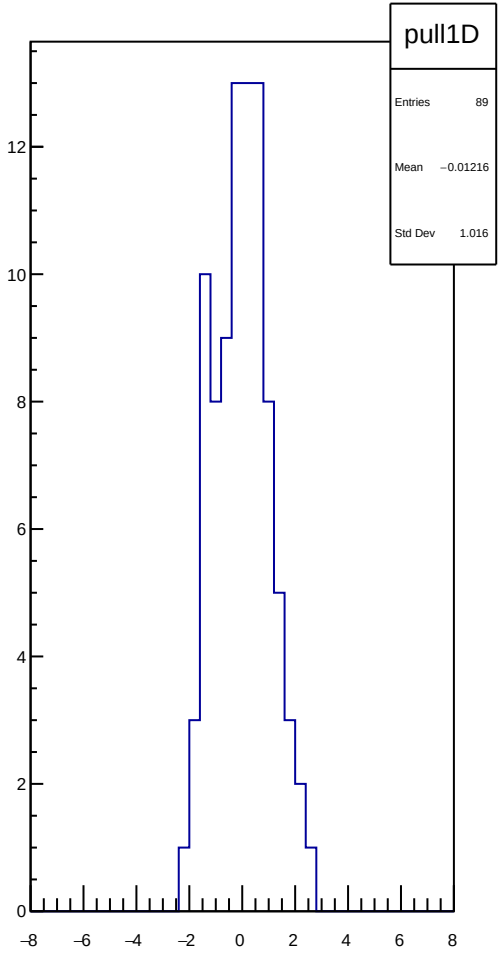

reg_asym_us_avg_rms vs run
χ² / ndf 508.6 / 88
p0 764.7 ± 0.5786
810
800
790
780
770
760
750
740
730


asym_us_avg_reg_correction_mean vs run
χ² / ndf 96.64 / 88
p0 717.6 ± 1659
pull
Entries 89
Mean −244.8
Std Dev 0


pull1D
Entries 89
Mean 0.005855
Std Dev 1.042


asym_us_avg_reg_correction_rms vs run
χ² / ndf 1.077e+04 / 88
p0 1546 ± 1.173
1900
1800
1700
1600
1500
1400
1300


cor_asym_us_avg_mean vs run
χ² / ndf 91.88 / 88
p0 2963 ± 818.2
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 176.1
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 89
Mean −0.01216
Std Dev 1.016
12
10
8
6
4
2
0
−8
−6
−4
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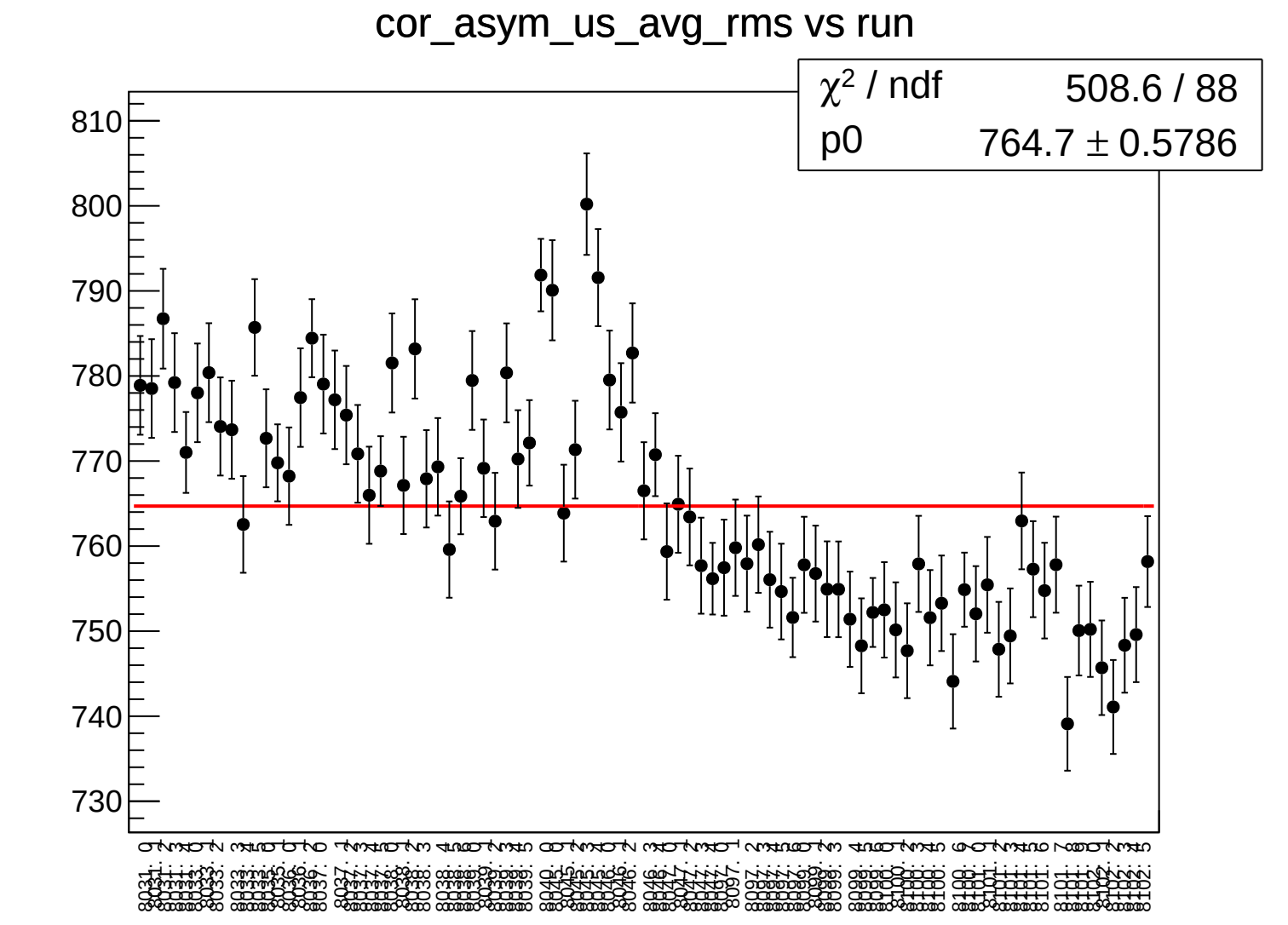
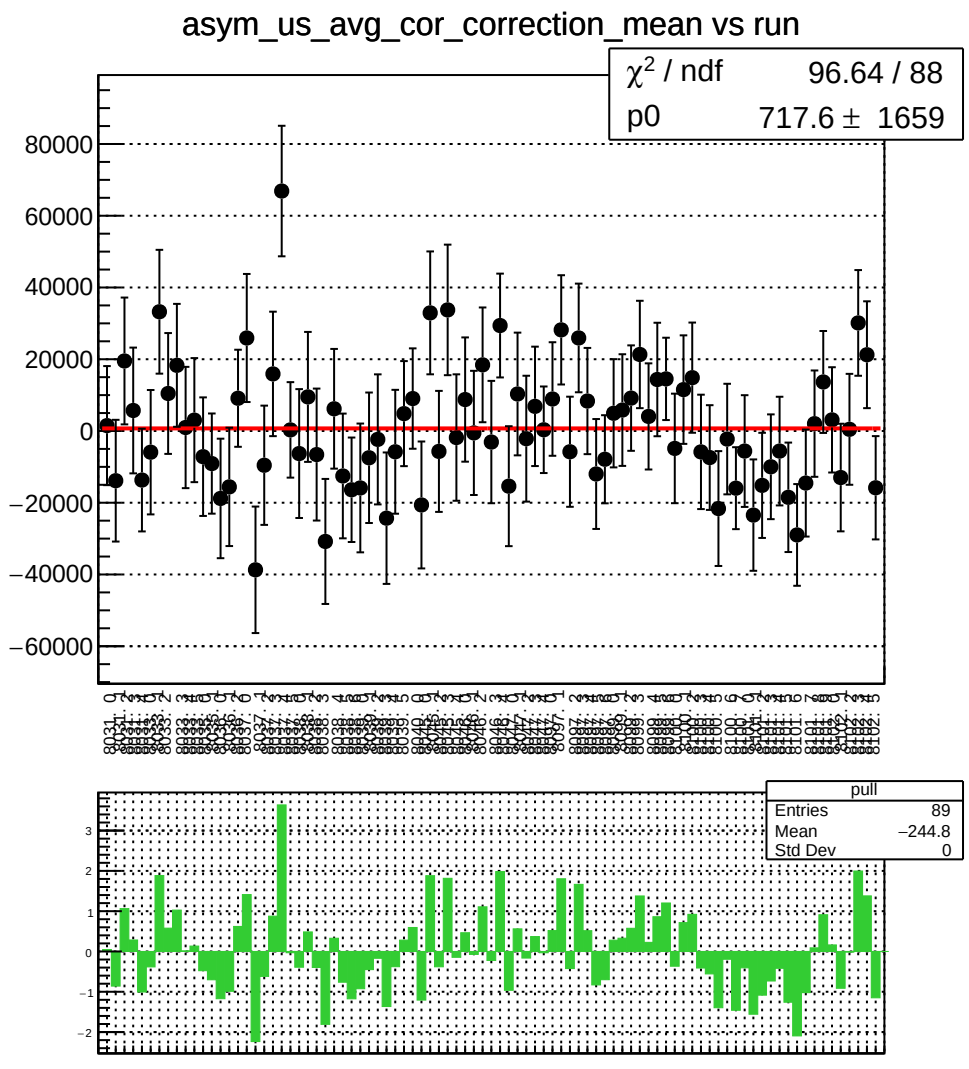
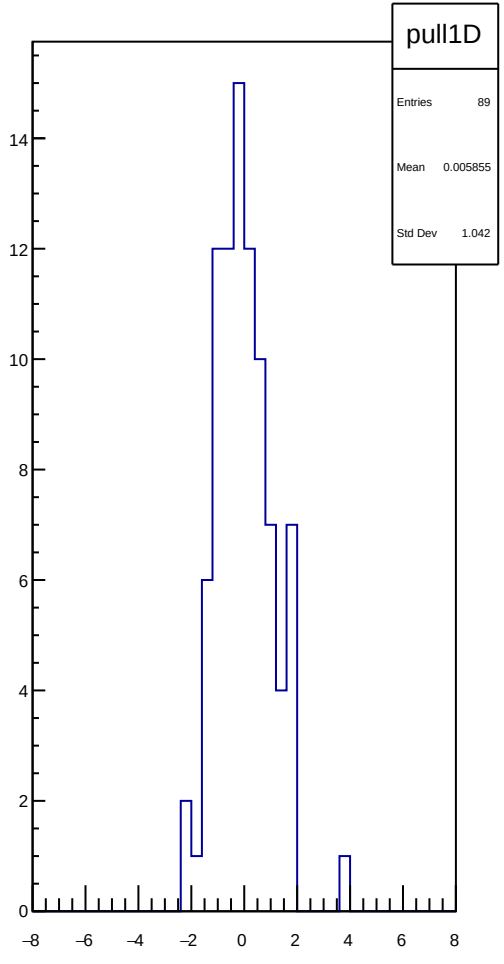
2
4
6
8


cor_asym_us_avg_rms vs run
χ² / ndf 508.6 / 88
p0 764.7 ± 0.5786
810
800
790
780
770
760
750
740
730


asym_us_avg_cor_correction_mean vs run
χ² / ndf 96.64 / 88
p0 717.6 ± 1659
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −244.8
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 89
Mean 0.005855
Std Dev 1.042
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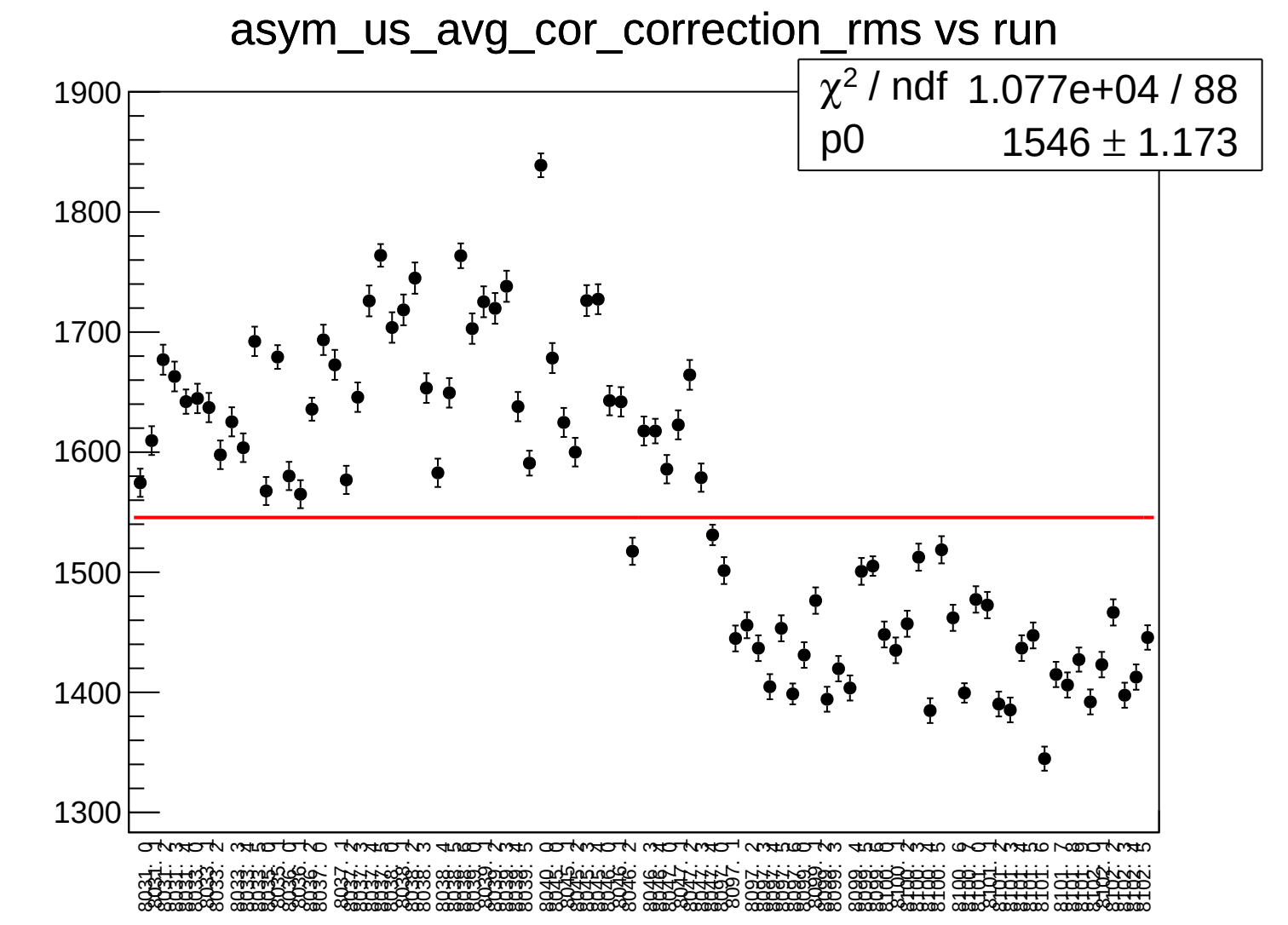
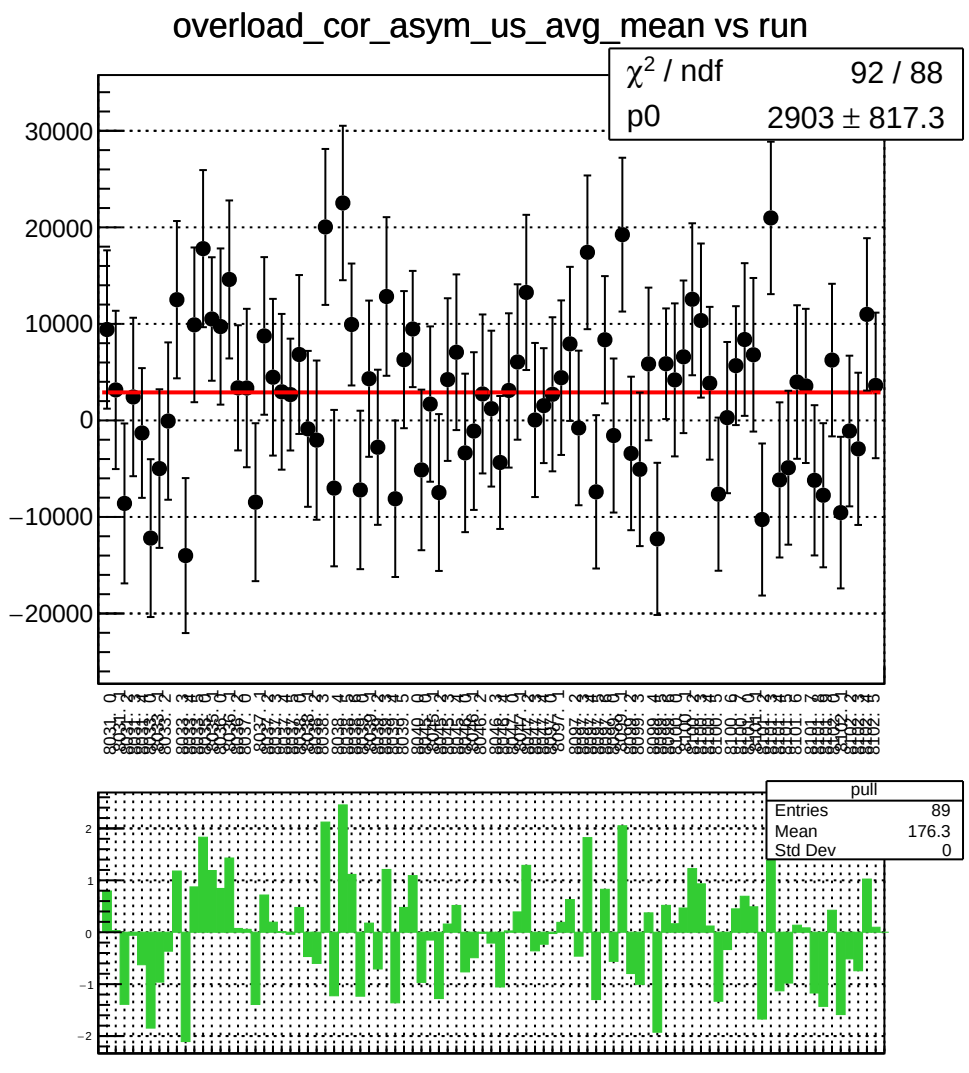
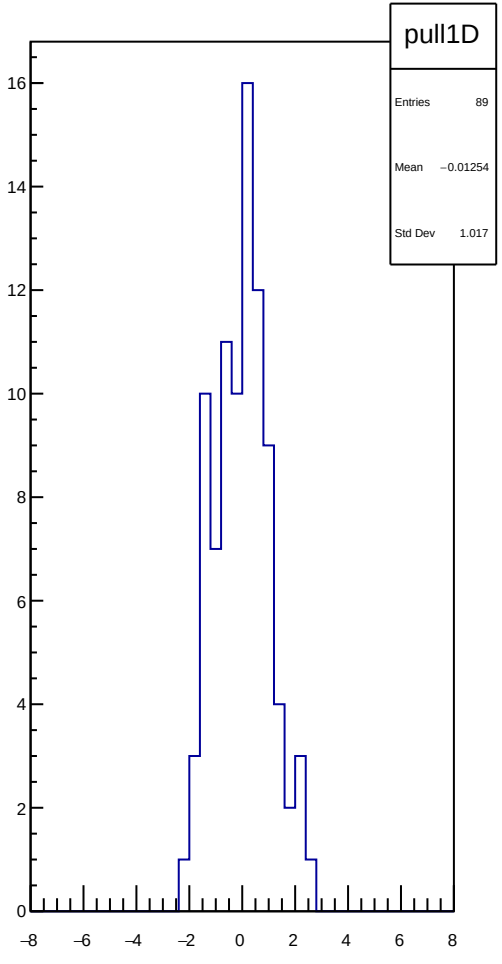
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_cor_correction_rms vs run
χ² / ndf 1.077e+04 / 88
p0 1546 ± 1.173
1900
1800
1700
1600
1500
1400
1300


overload_cor_asym_us_avg_mean vs run
χ² / ndf 92 / 88
p0 2903 ± 817.3
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 176.3
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 89
Mean −0.01254
Std Dev 1.017
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14
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10
8
6
4
2
0
−8
−6
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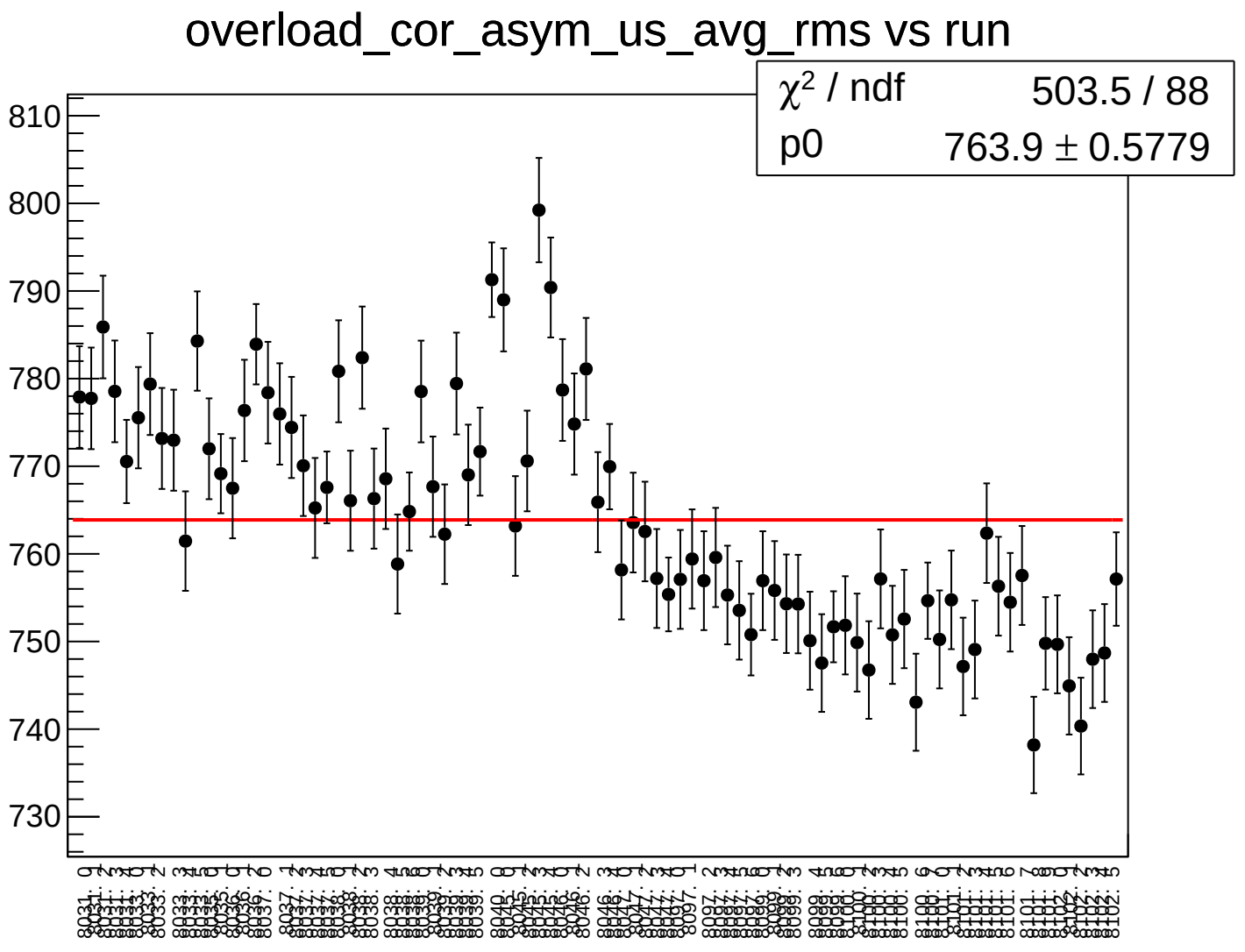
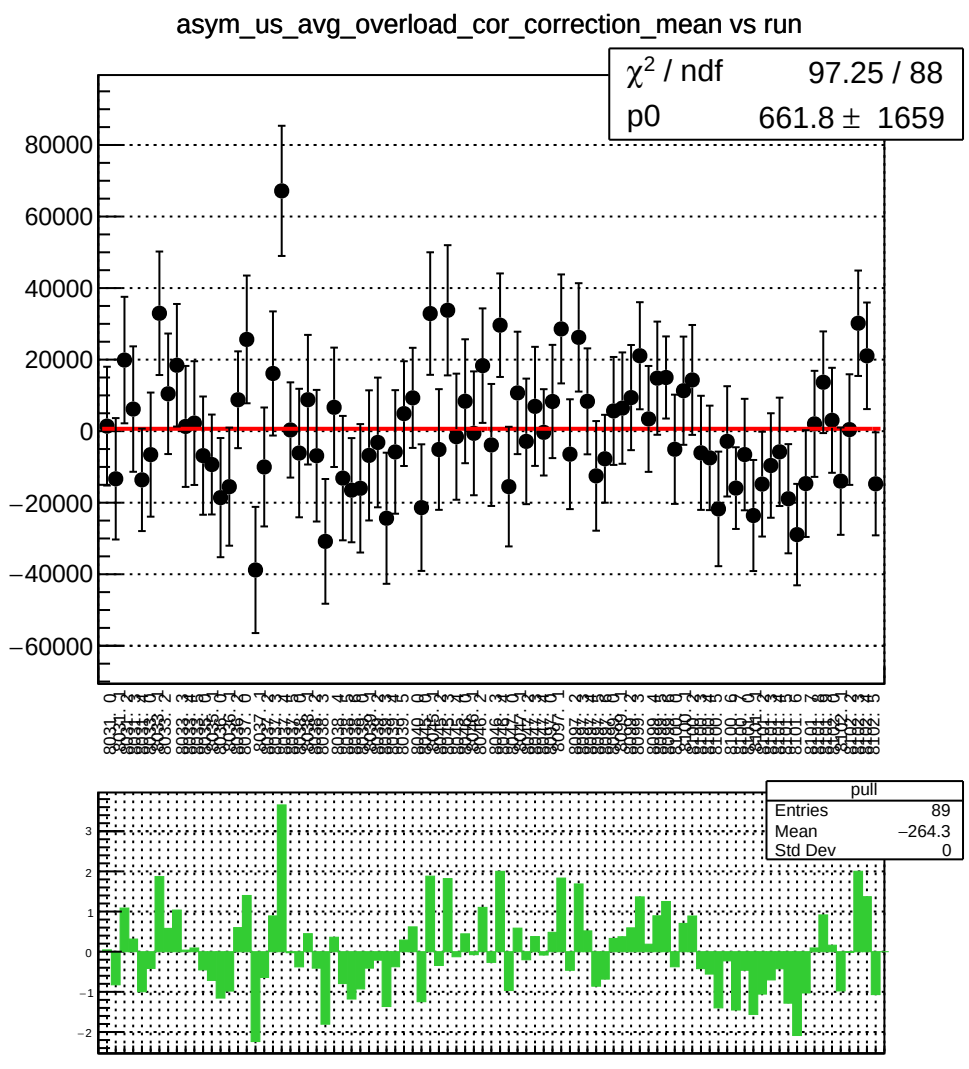
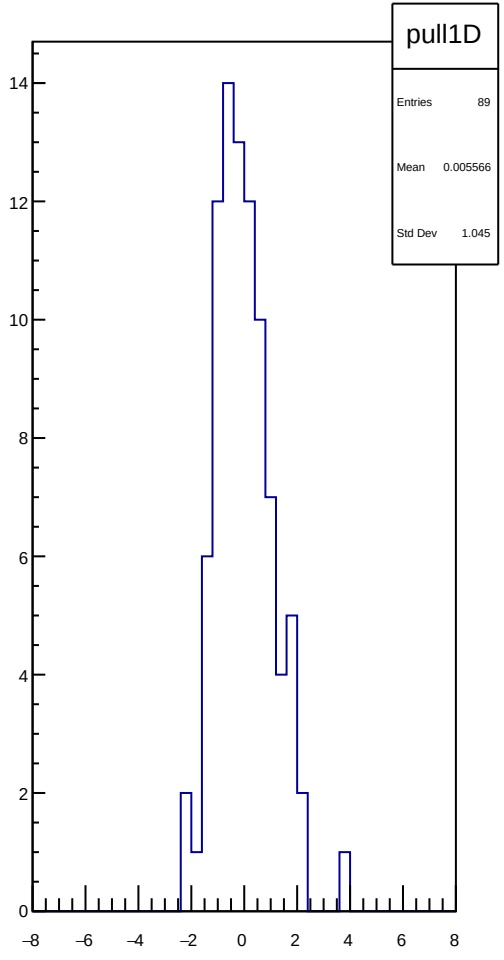
2
4
6
8


overload_cor_asym_us_avg_rms vs run
χ² / ndf 503.5 / 88
p0 763.9 ± 0.5779
810
800
790
780
770
760
750
740
730


asym_us_avg_overload_cor_correction_mean vs run
χ² / ndf 97.25 / 88
p0 661.8 ± 1659
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −264.3
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 89
Mean 0.005566
Std Dev 1.045
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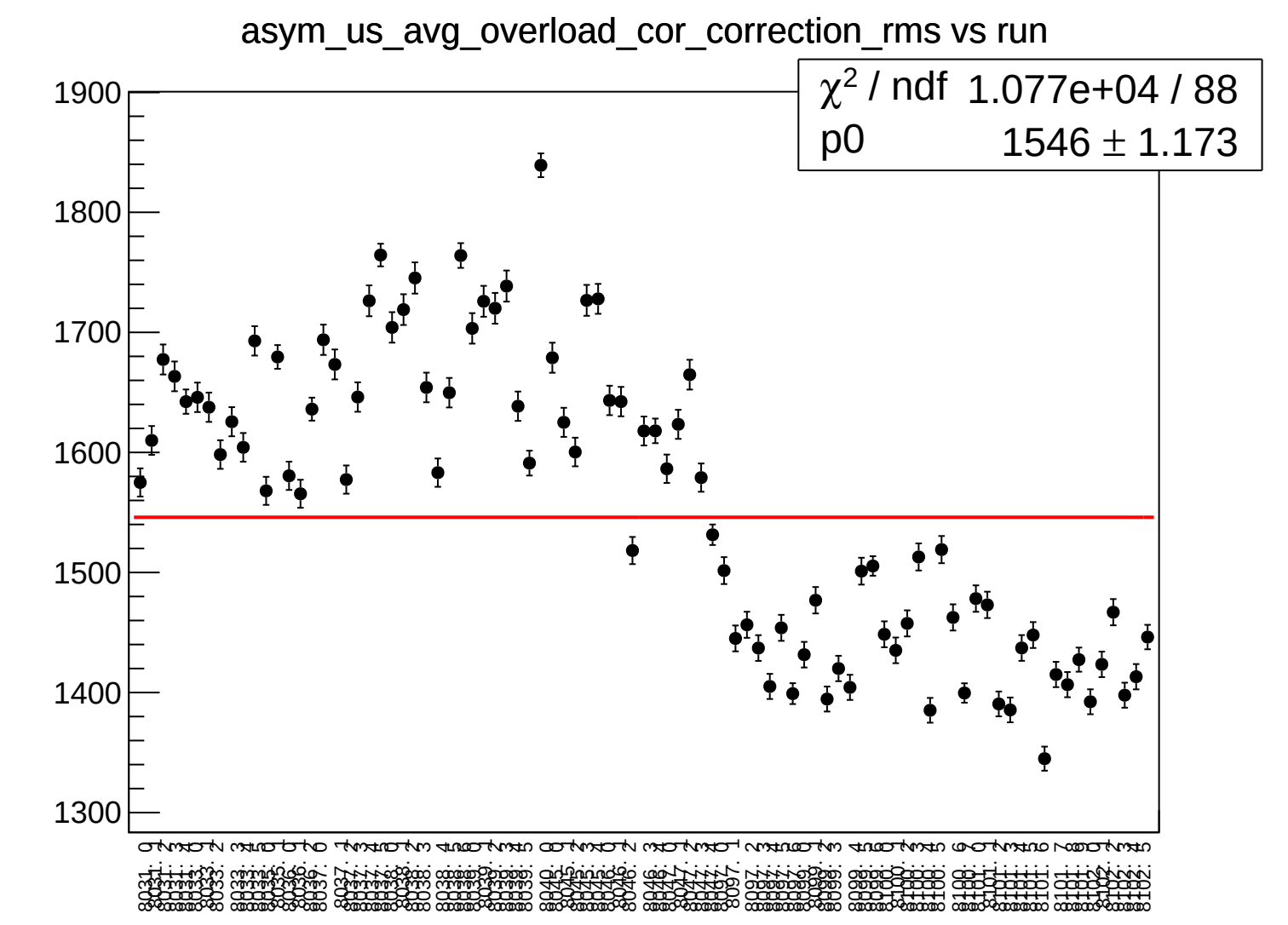
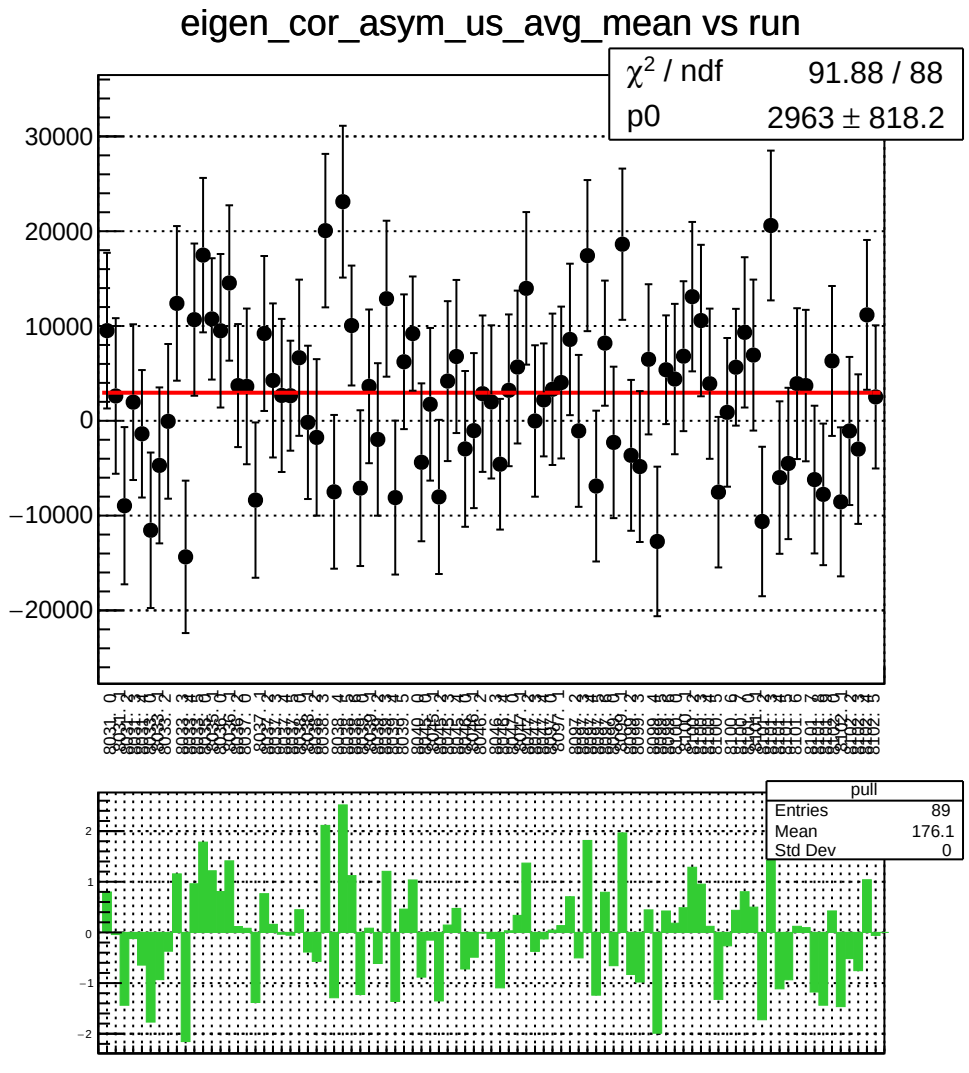
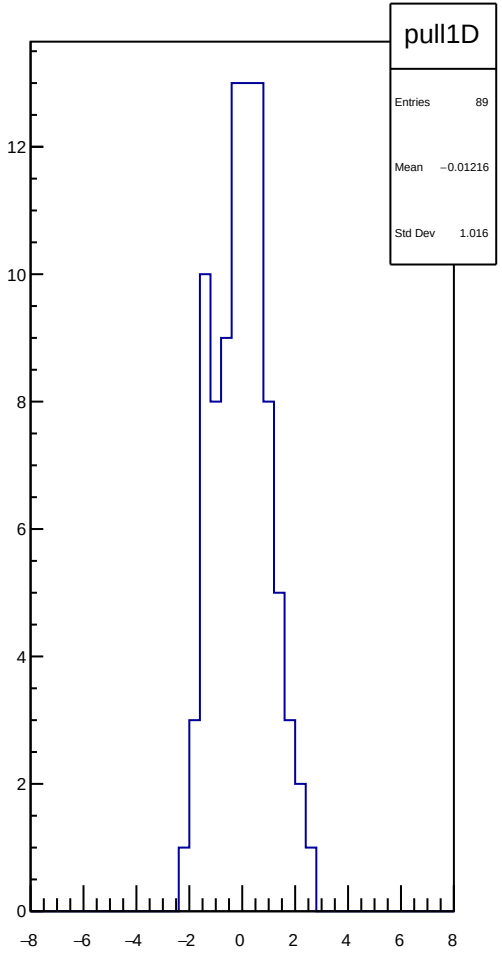
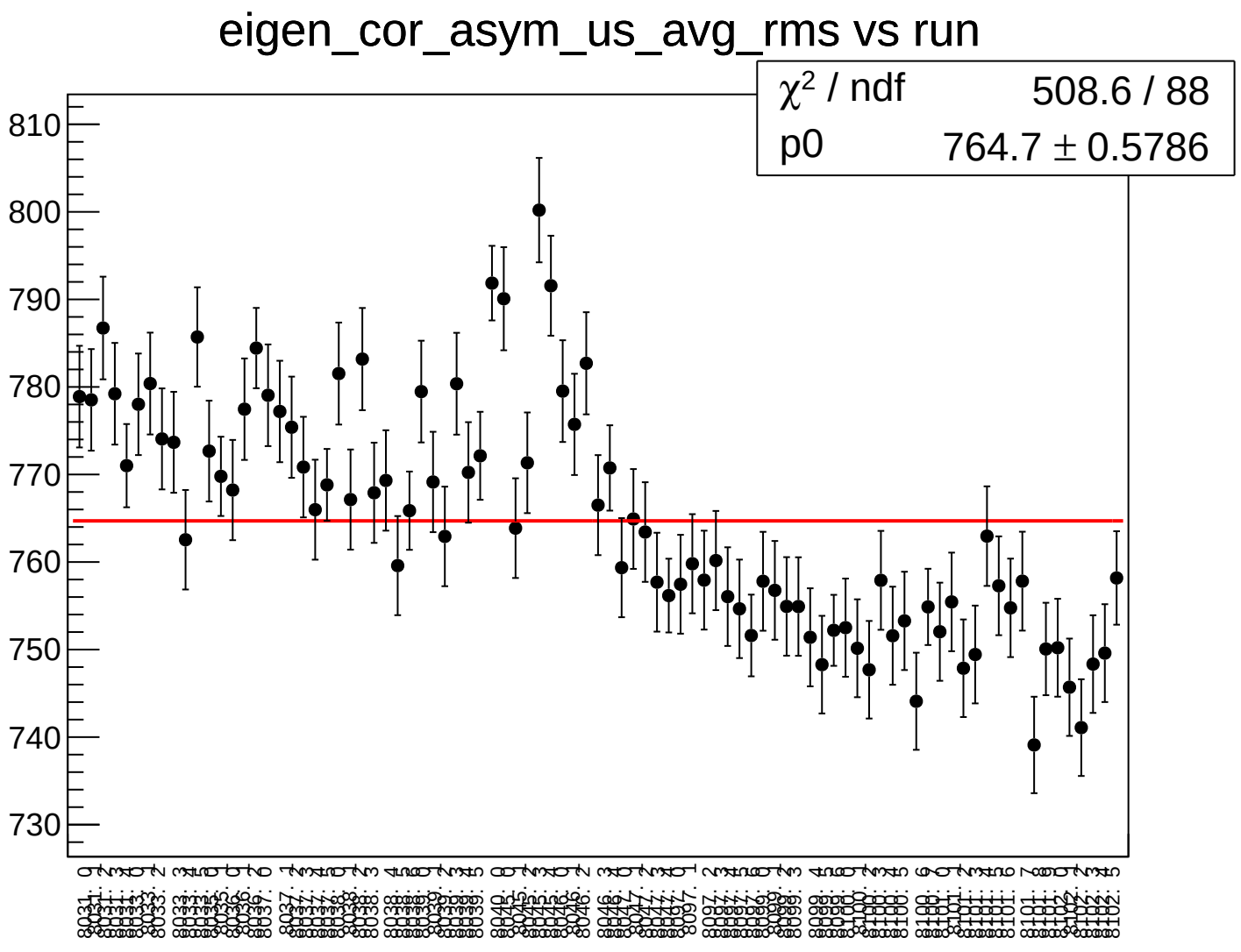
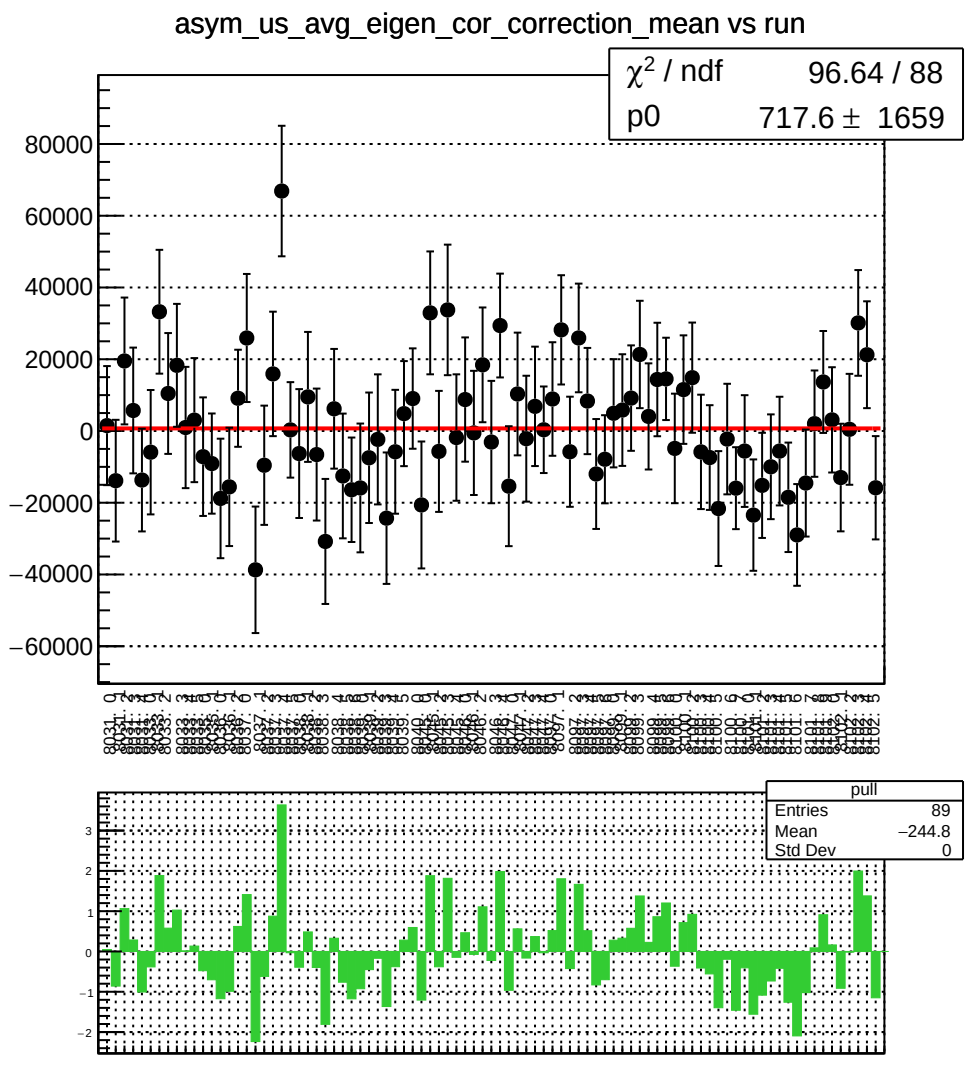
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

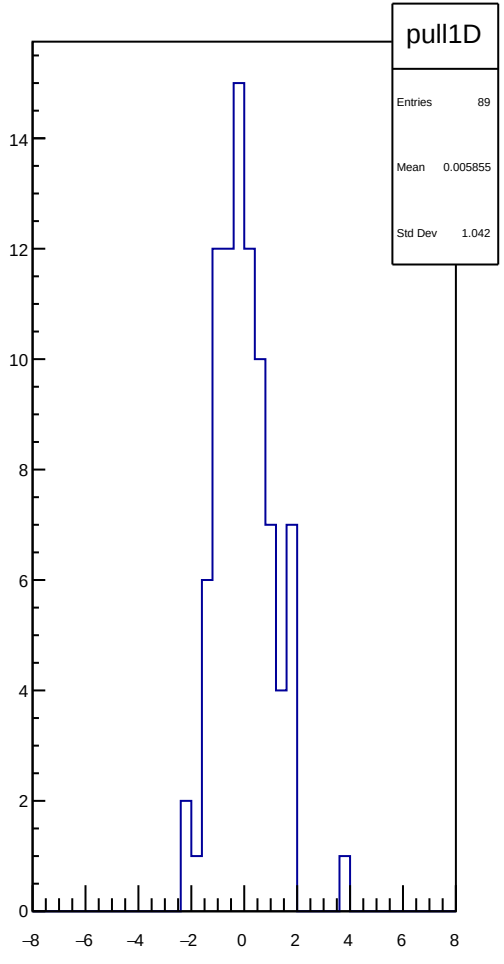

asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 1.077e+04 / 88
p0 1546 ± 1.173
1900
1800
1700
1600
1500
1400
1300

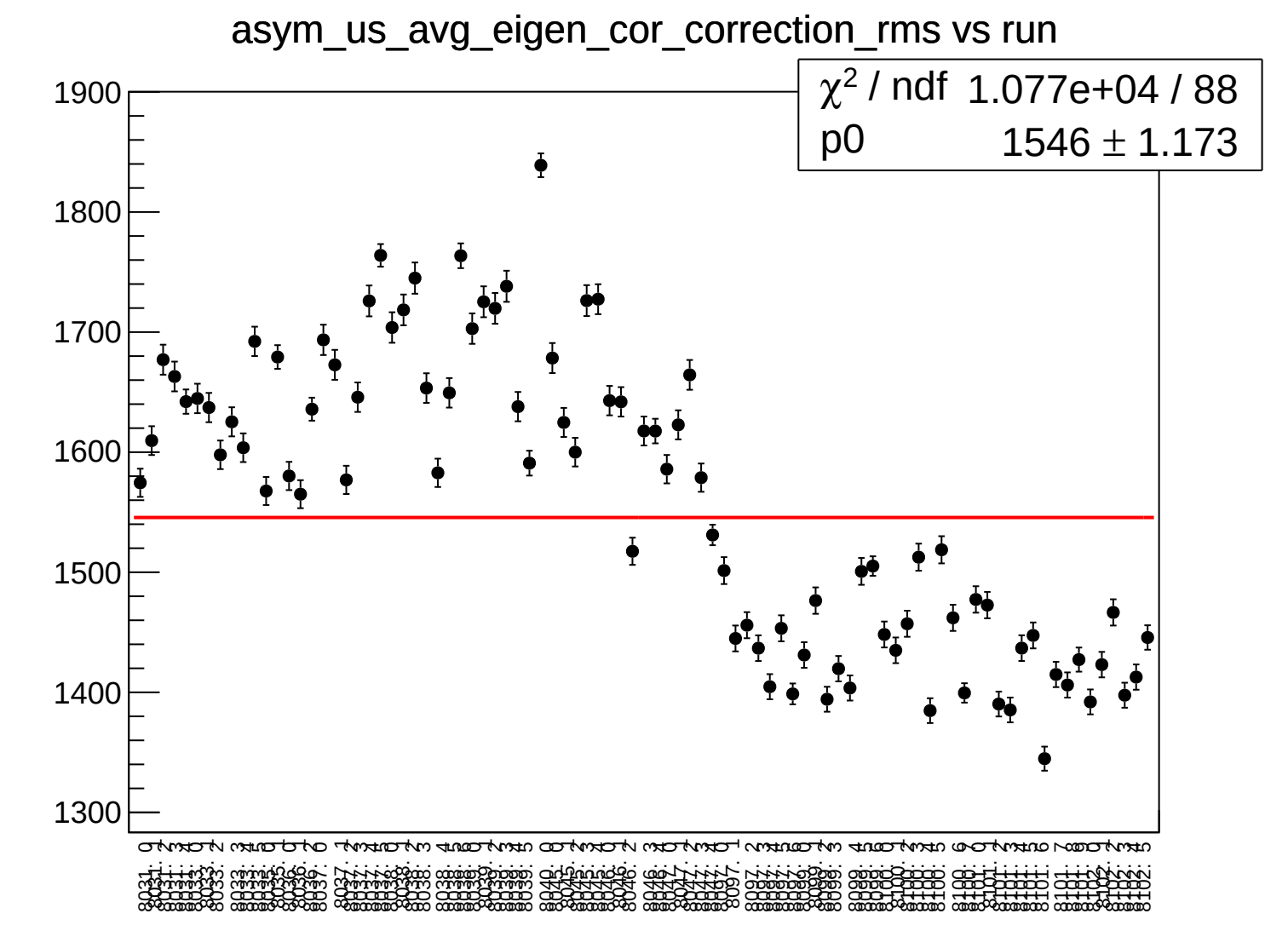

eigen_cor_asym_us_avg_mean vs run
χ² / ndf 91.88 / 88
p0 2963 ± 818.2
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 176.1
Std Dev 0
2
1
0
−1
−2

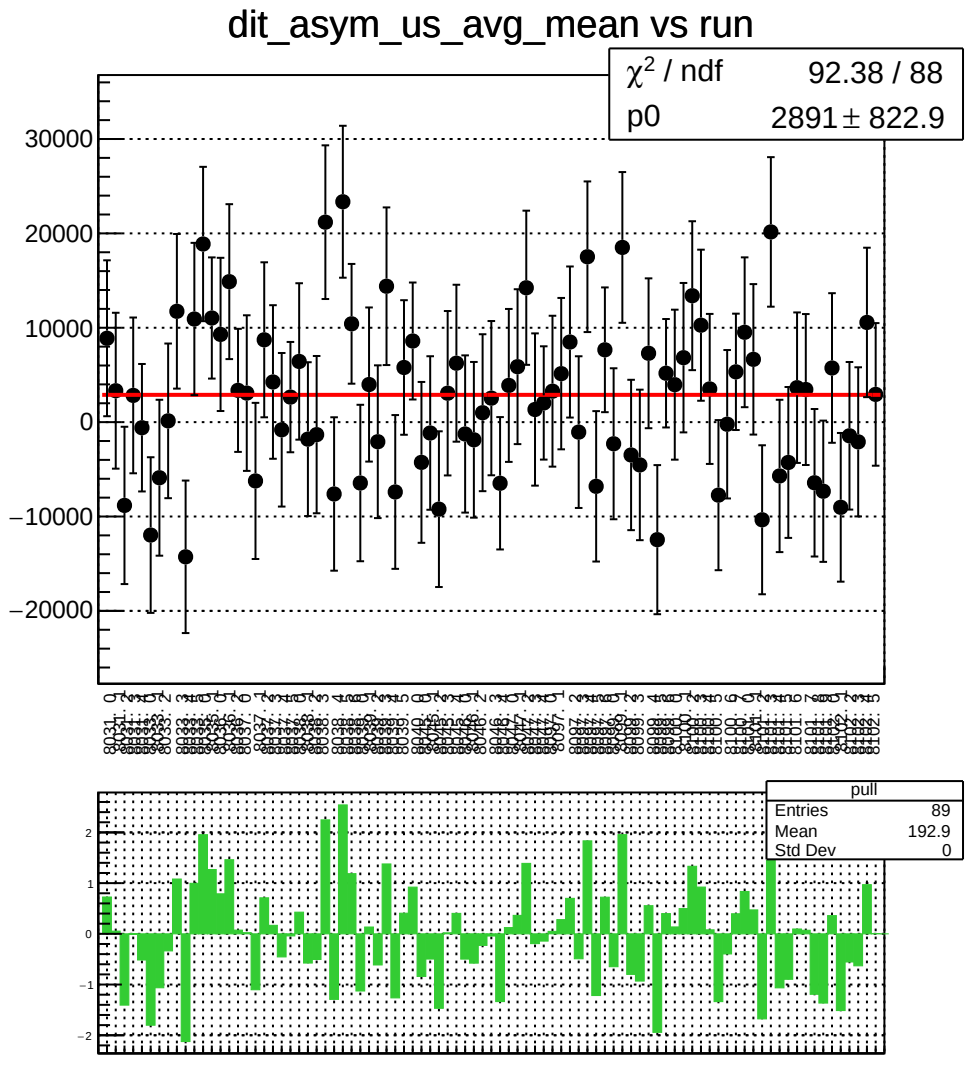

pull1D
Entries 89
Mean −0.01216
Std Dev 1.016
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

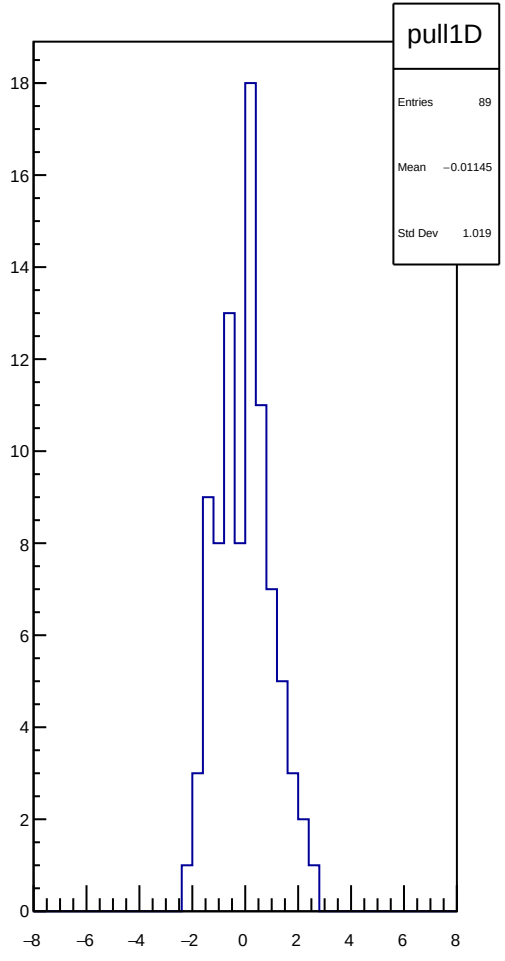

eigen_cor_asym_us_avg_rms vs run
χ² / ndf 508.6 / 88
p0 764.7 ± 0.5786
810
800
790
780
770
760
750
740
730

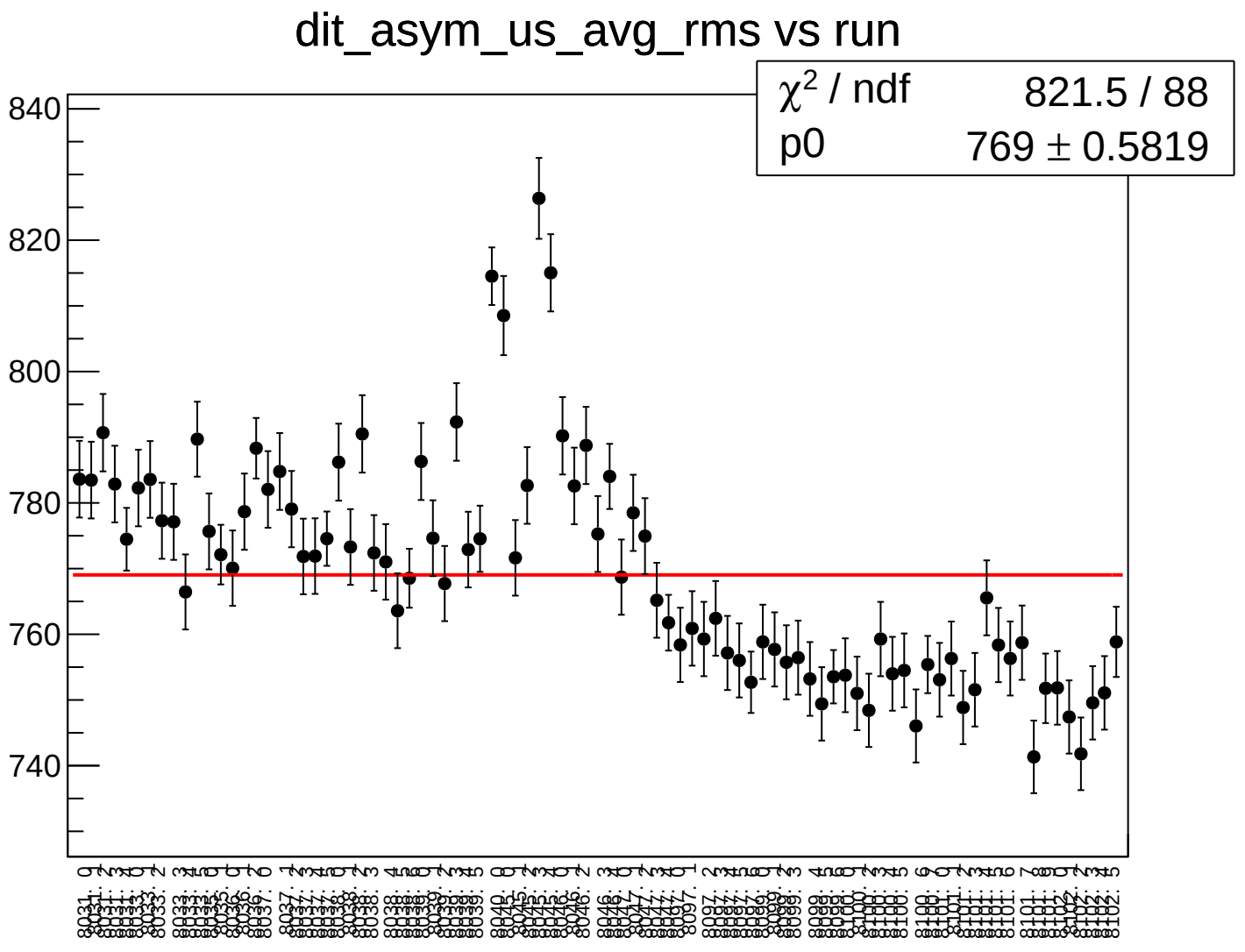

asym_us_avg_eigen_cor_correction_mean vs run
χ² / ndf 96.64 / 88
p0 717.6 ± 1659
pull
Entries 89
Mean −244.8
Std Dev 0

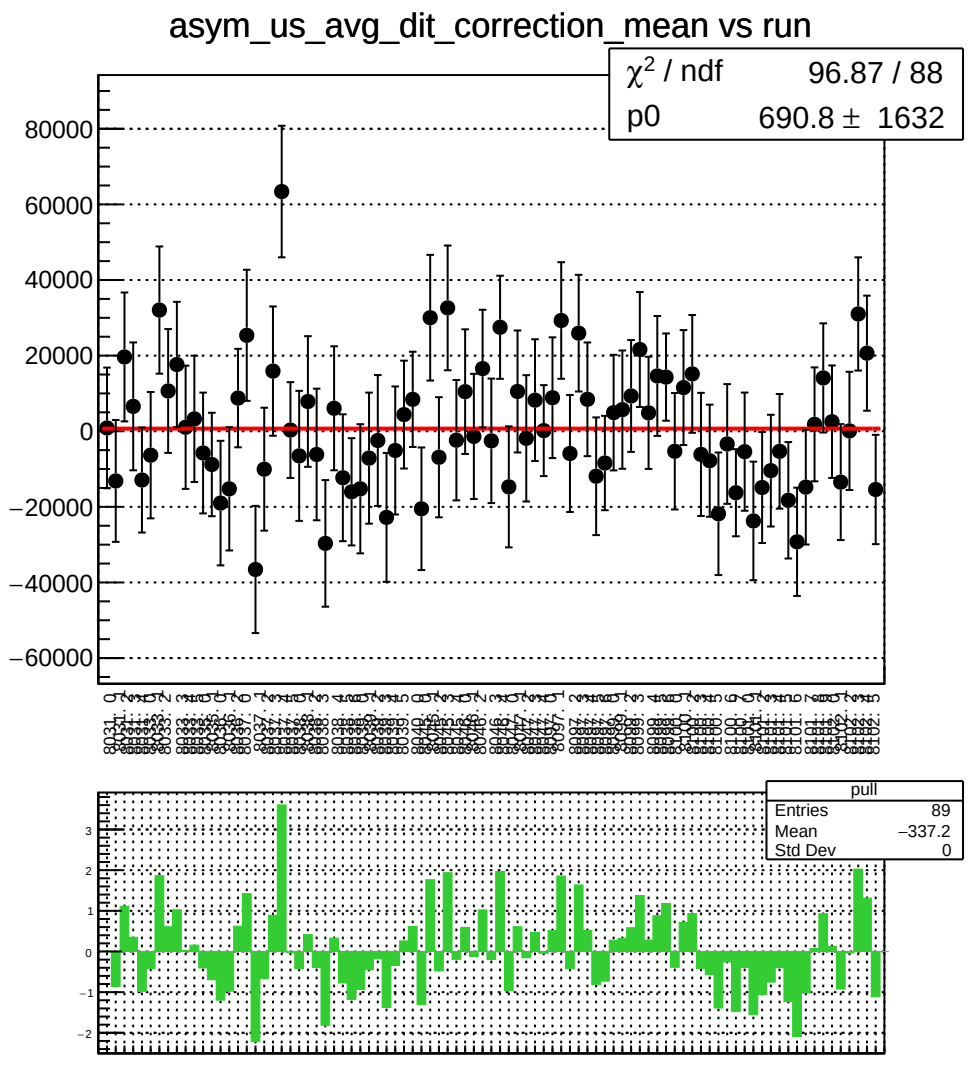

pull1D
Entries 89
Mean 0.005855
Std Dev 1.042

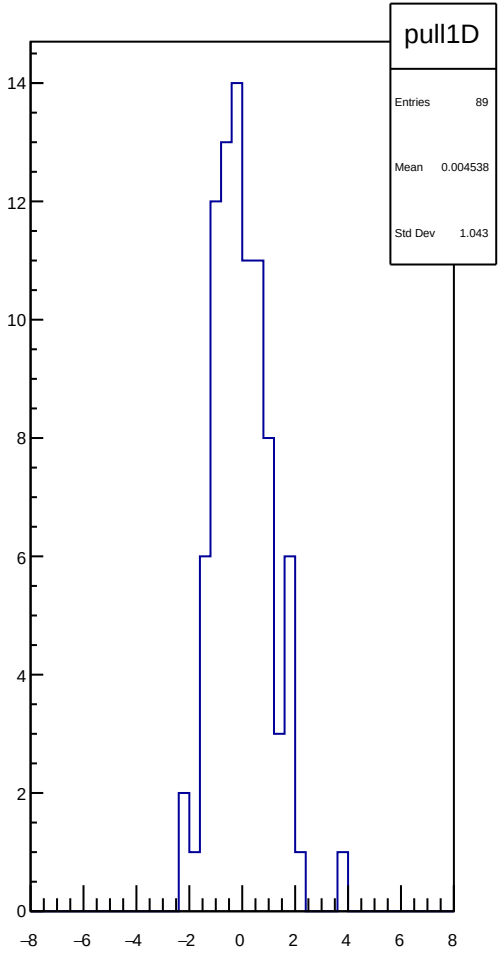

asym_us_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.077e+04 / 88
p0 1546 ± 1.173
1900
1800
1700
1600
1500
1400
1300

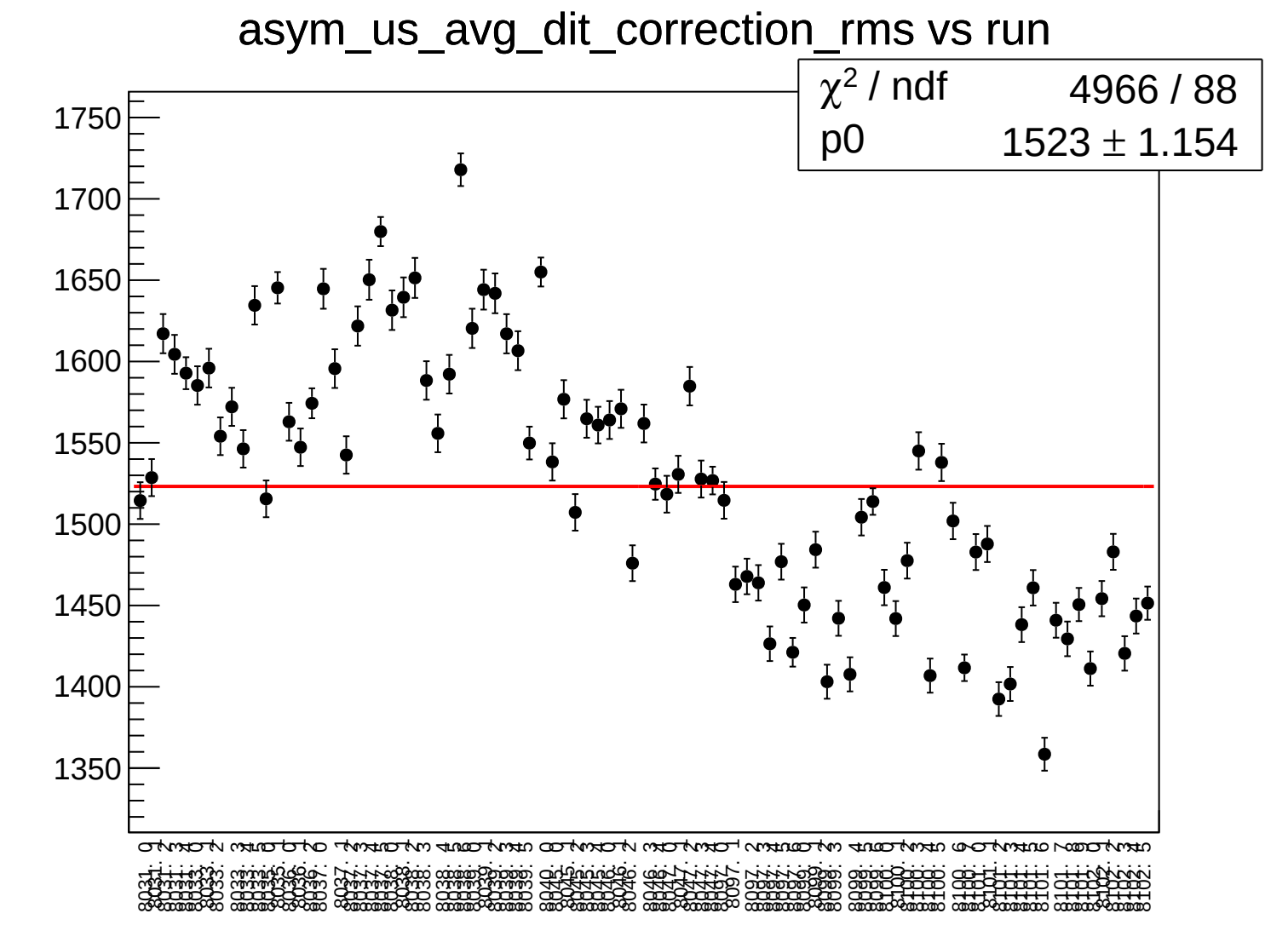

dit_asym_us_avg_mean vs run
χ² / ndf 92.38 / 88
p0 2891 ± 822.9
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 192.9
Std Dev 0
2
1
0
−1
−2

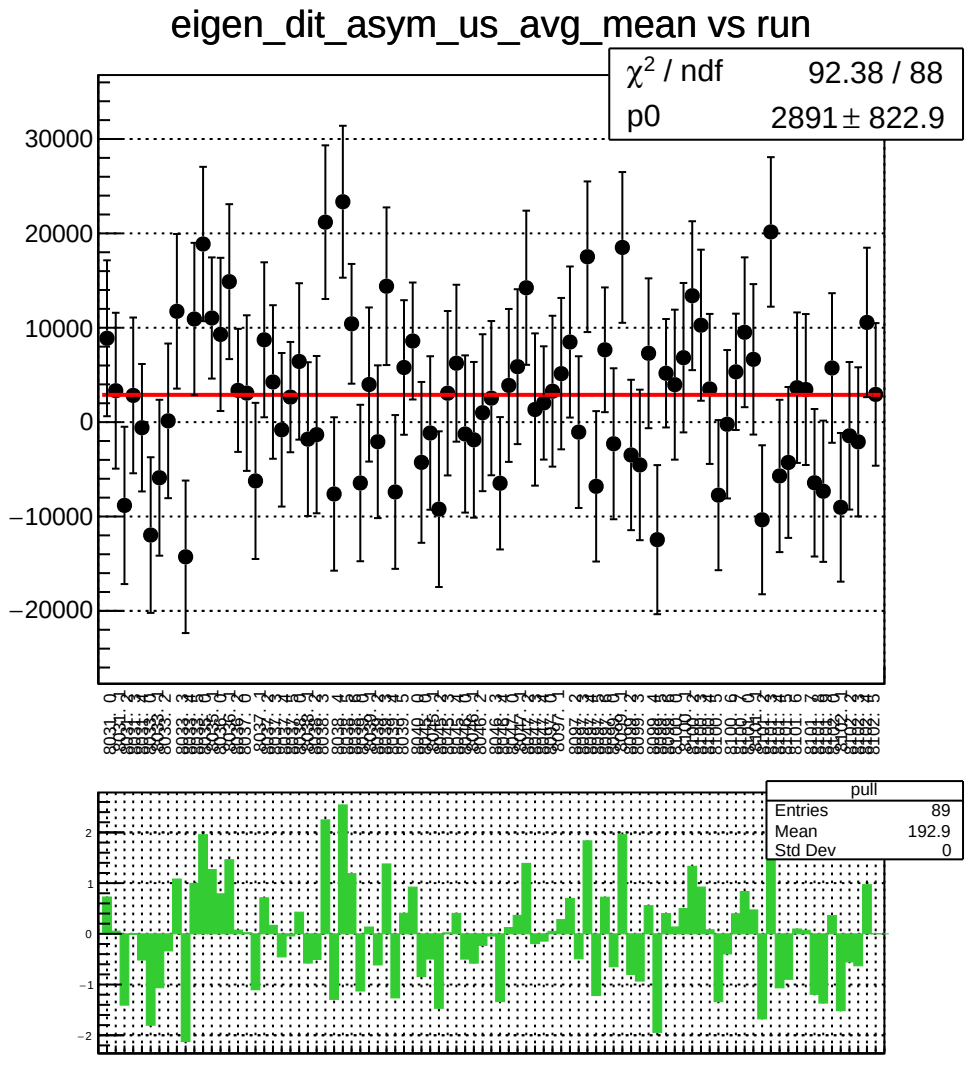

pull1D
Entries 89
Mean −0.01145
Std Dev 1.019
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

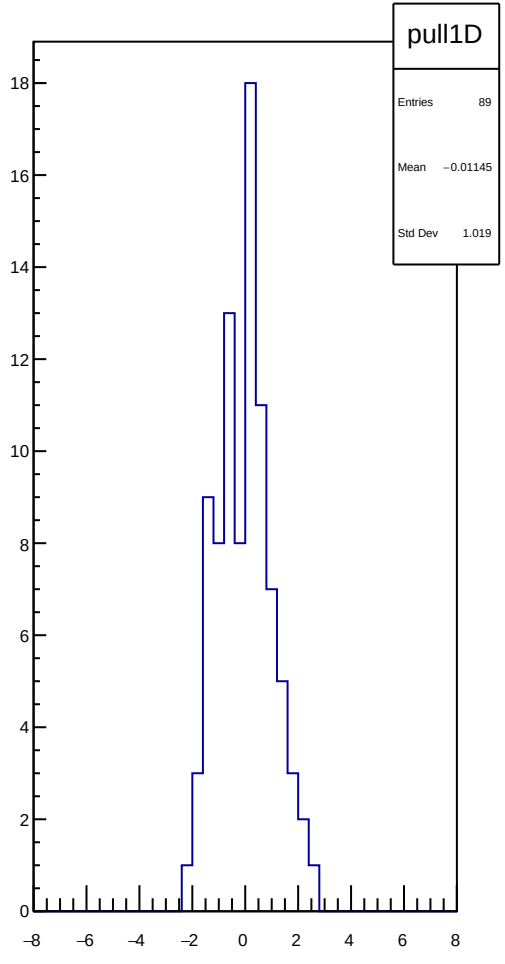

dit_asym_us_avg_rms vs run
χ² / ndf 821.5 / 88
p0 769 ± 0.5819
840
820
800
780
760
740


asym_us_avg_dit_correction_mean vs run
χ² / ndf 96.87 / 88
p0 690.8 ± 1632
pull
Entries 89
Mean −337.2
Std Dev 0


pull1D
Entries 89
Mean 0.004538
Std Dev 1.043


asym_us_avg_dit_correction_rms vs run
χ² / ndf 4966 / 88
p0 1523 ± 1.154
1750
1700
1650
1600
1550
1500
1450
1400
1350


eigen_dit_asym_us_avg_mean vs run
χ² / ndf 92.38 / 88
p0 2891 ± 822.9
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 192.9
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 89
Mean −0.01145
Std Dev 1.019
18
16
14
12
10
8
6
4
2
0
−8
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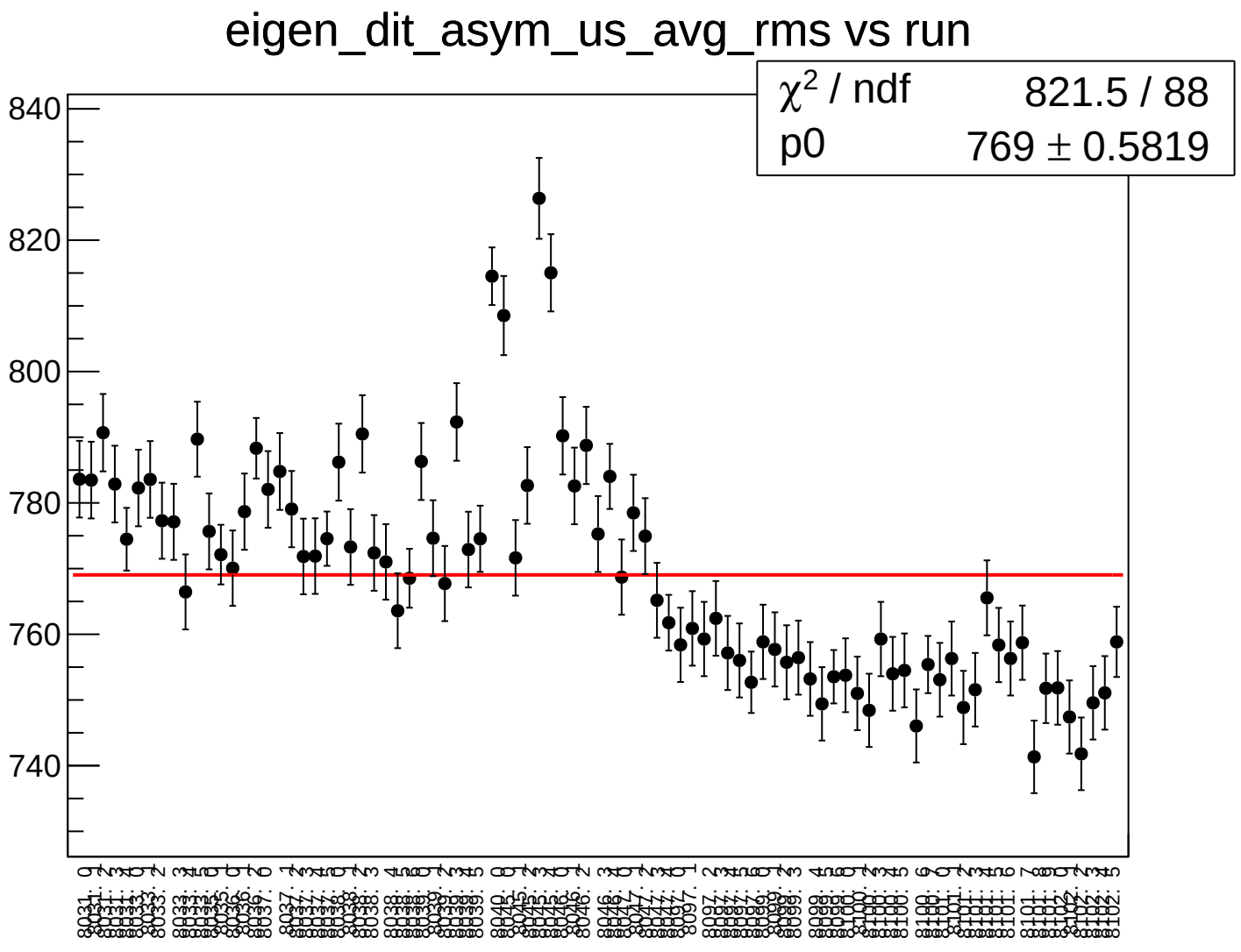
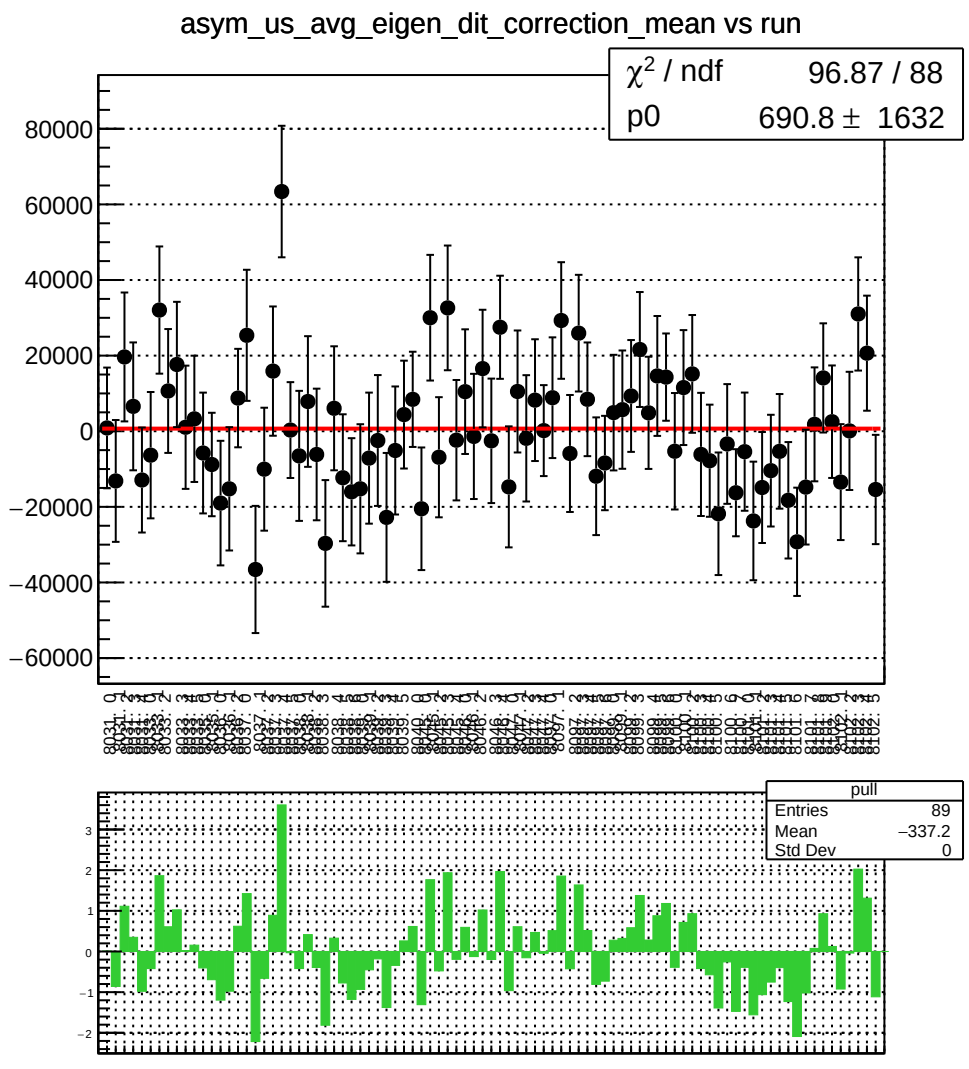
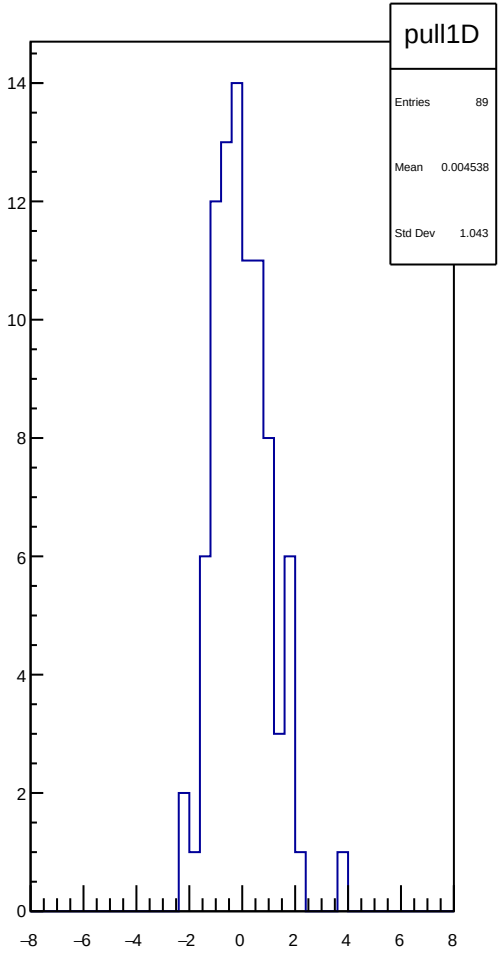
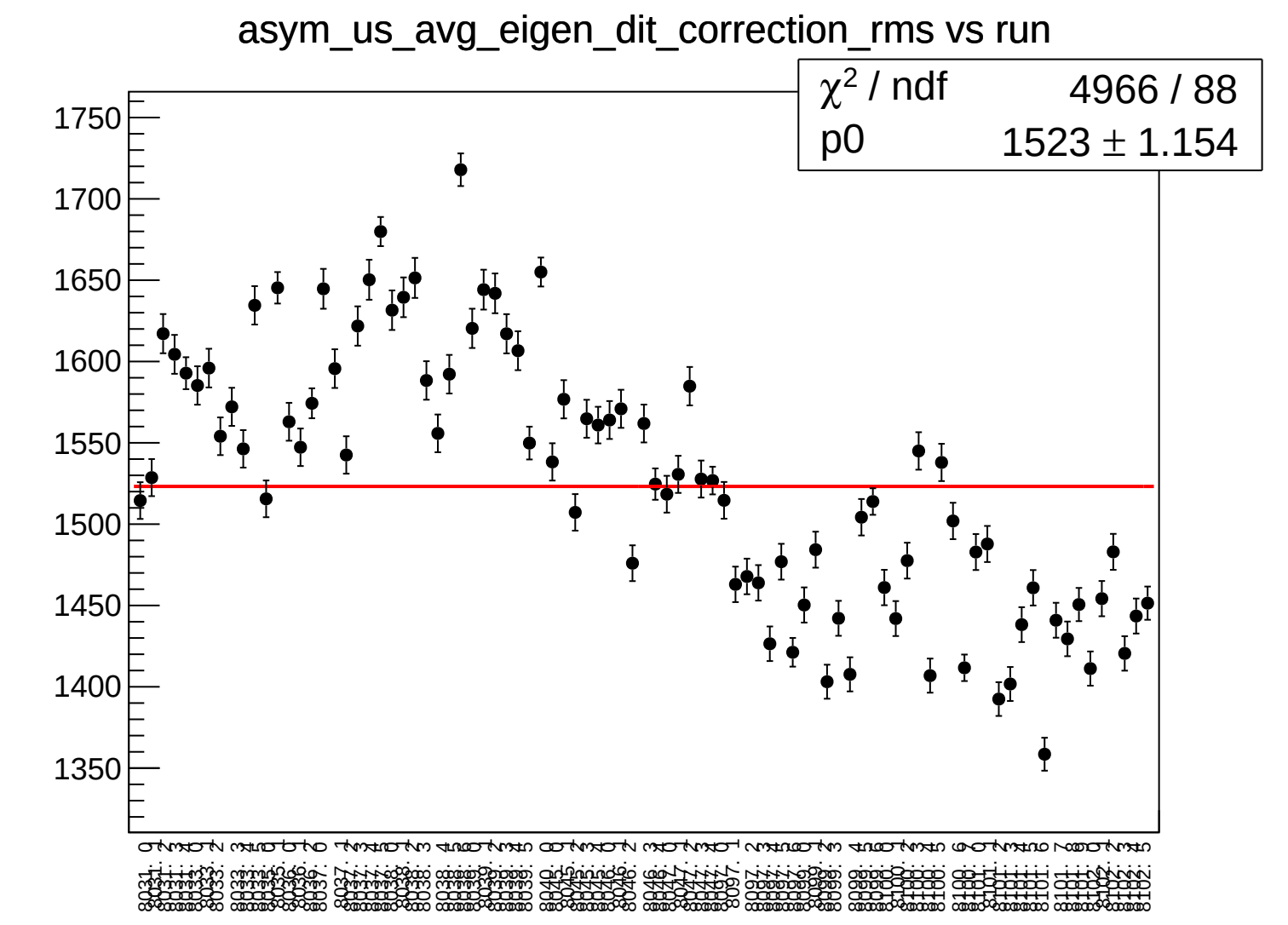
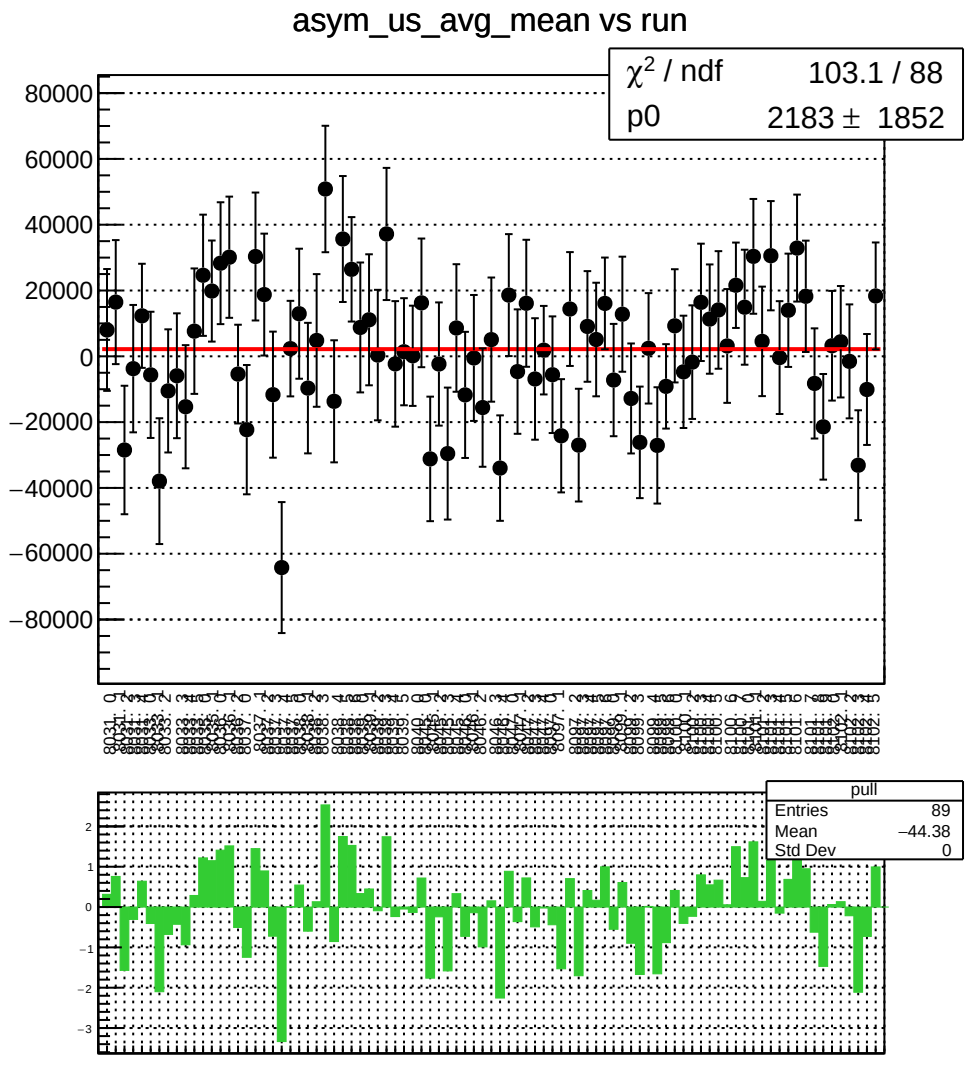
2
4
6
8

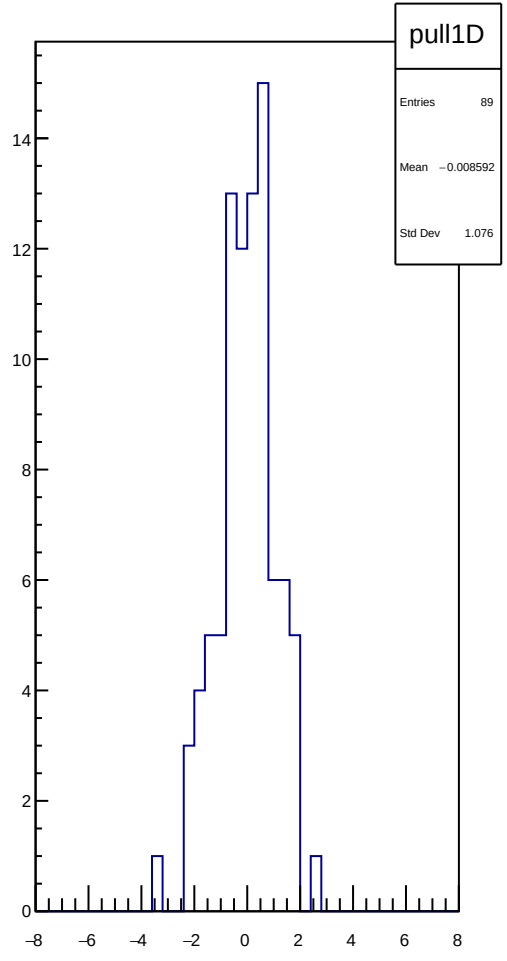

eigen_dit_asym_us_avg_rms vs run
χ² / ndf 821.5 / 88
p0 769 ± 0.5819
840
820
800
780
760
740


asym_us_avg_eigen_dit_correction_mean vs run
χ² / ndf 96.87 / 88
p0 690.8 ± 1632
pull
Entries 89
Mean −337.2
Std Dev 0


pull1D
Entries 89
Mean 0.004538
Std Dev 1.043


asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 4966 / 88
p0 1523 ± 1.154
1750
1700
1650
1600
1550
1500
1450
1400
1350


asym_us_avg_mean vs run
χ² / ndf 103.1 / 88
p0 2183 ± 1852
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −44.38
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 89
Mean −0.008592
Std Dev 1.076
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10
8
6
4
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−8
−6
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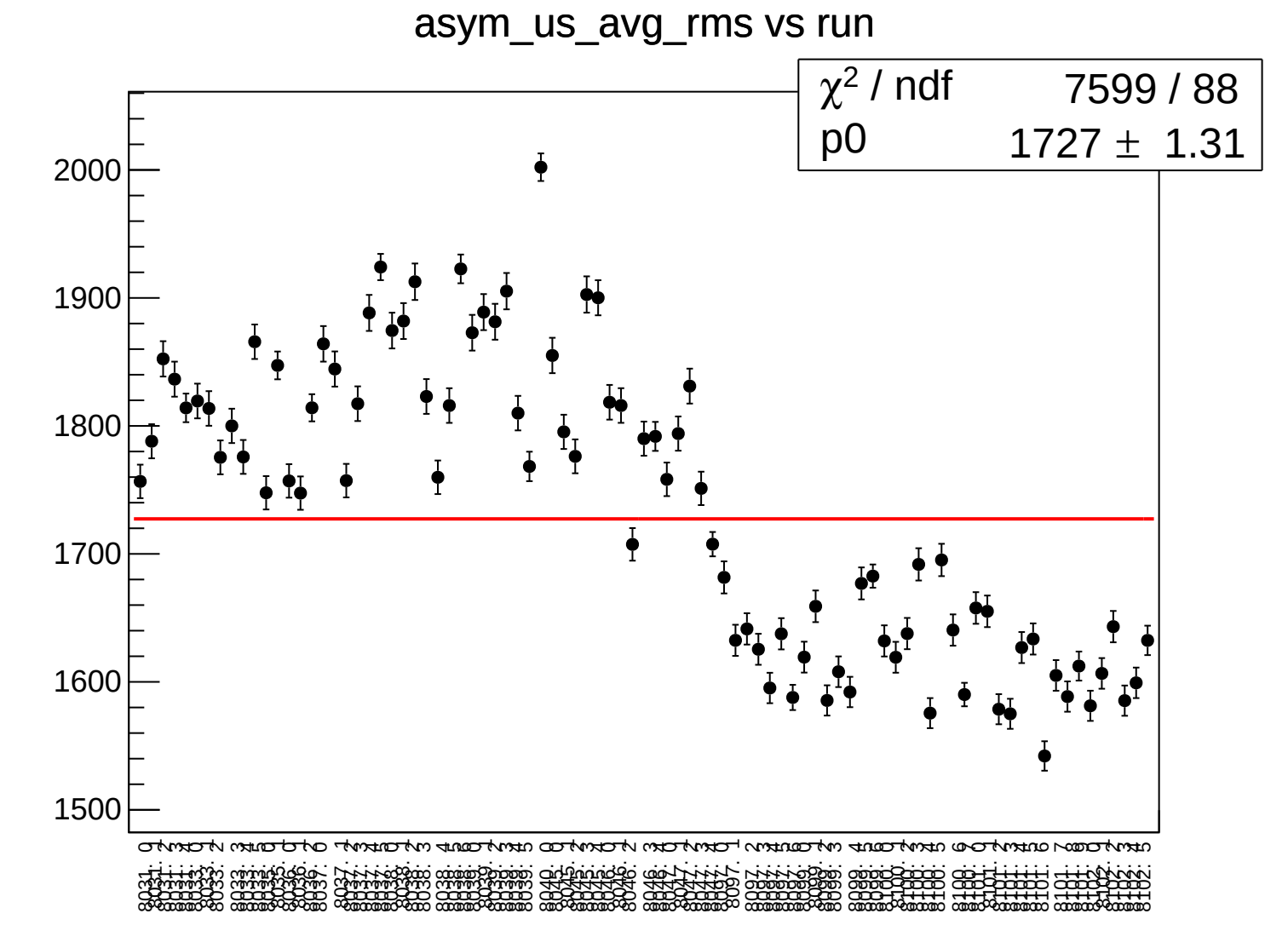
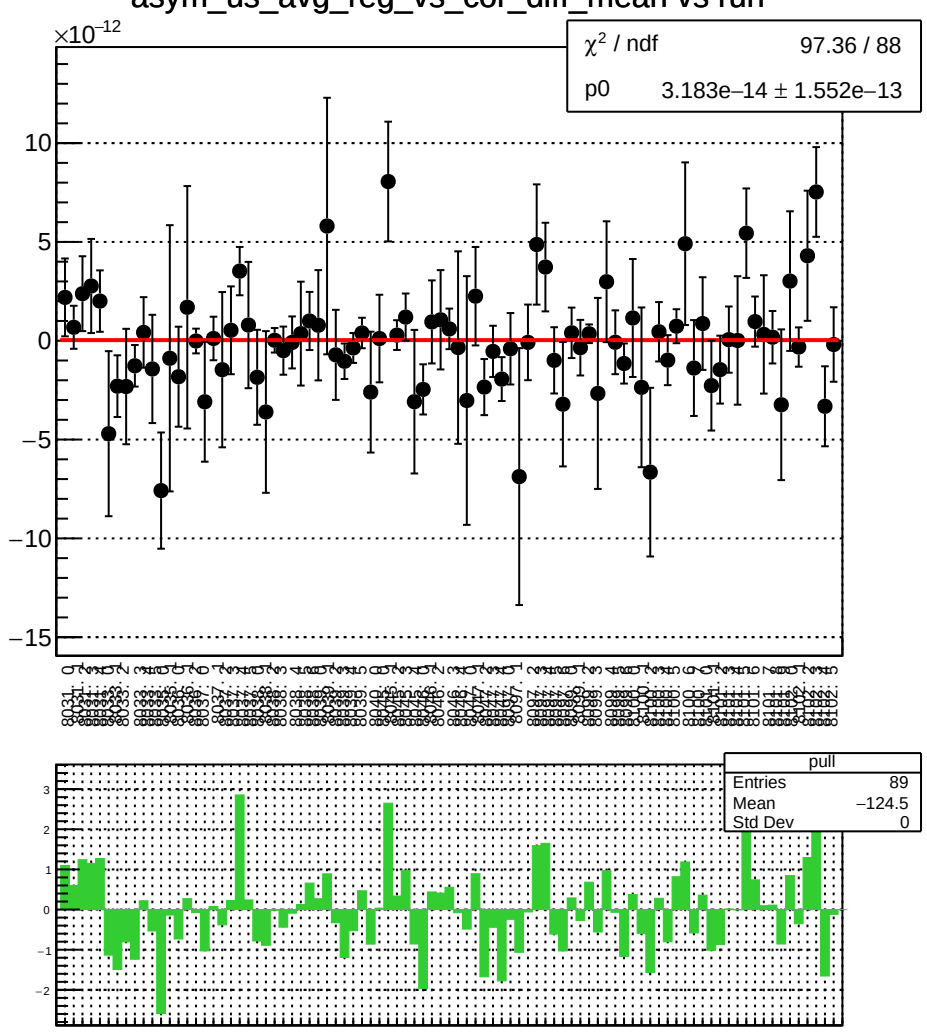
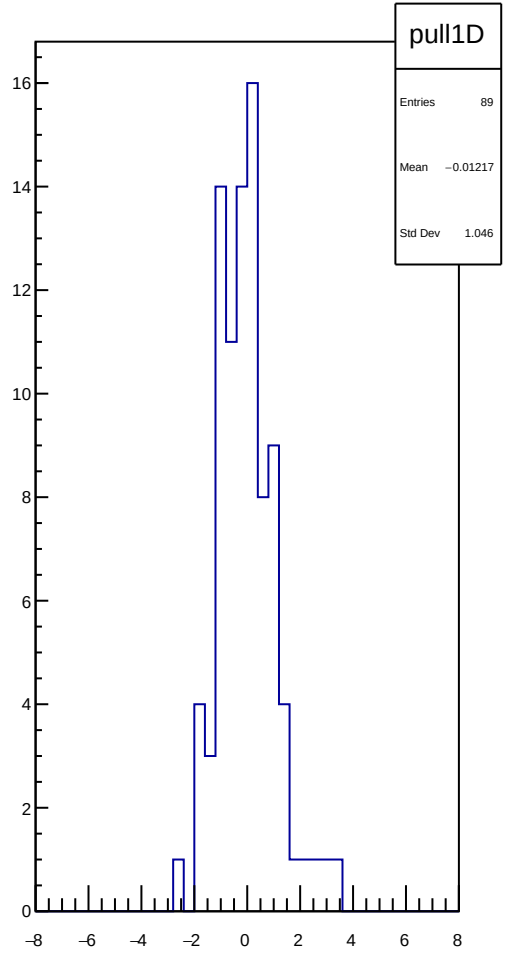
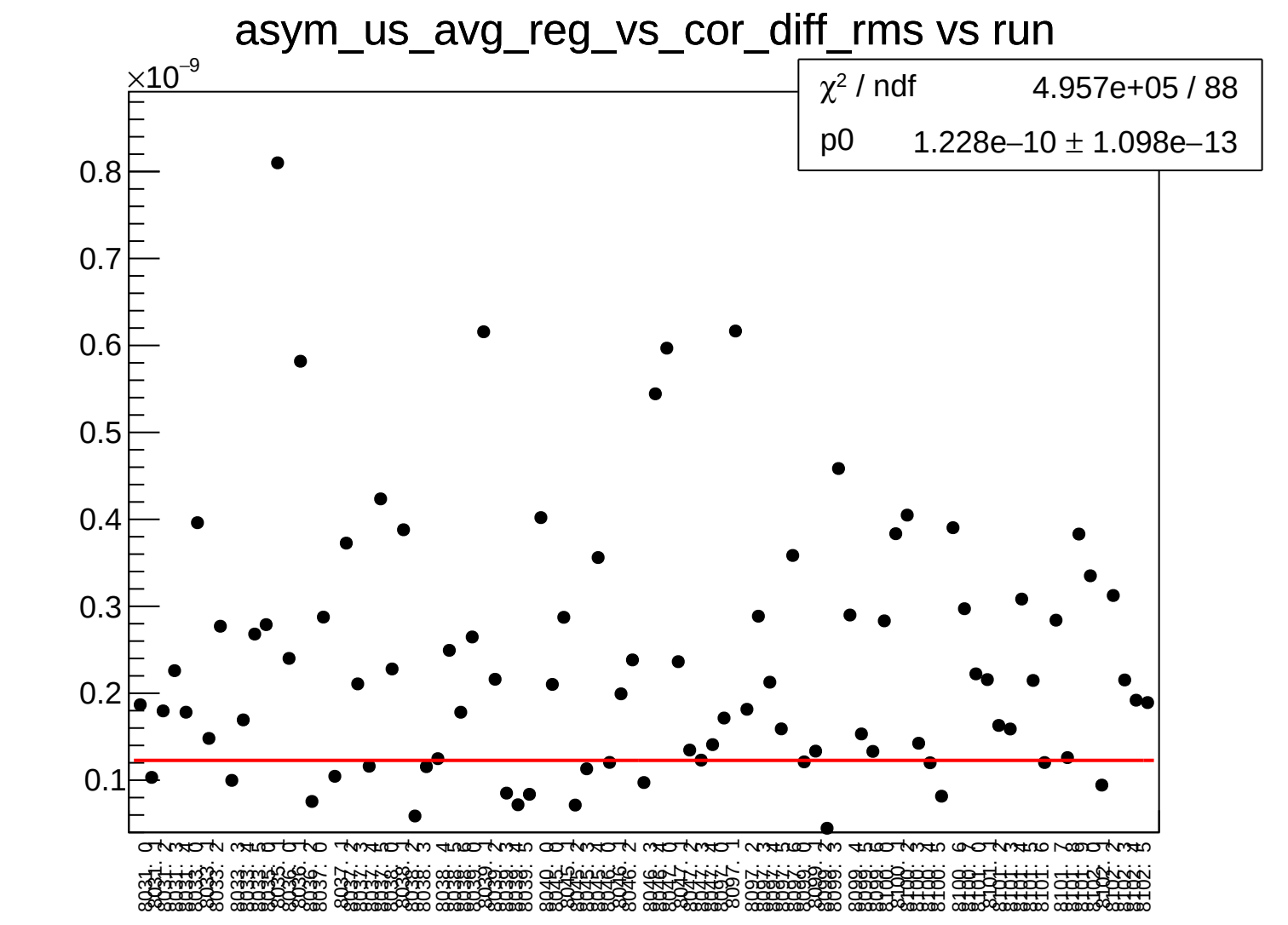
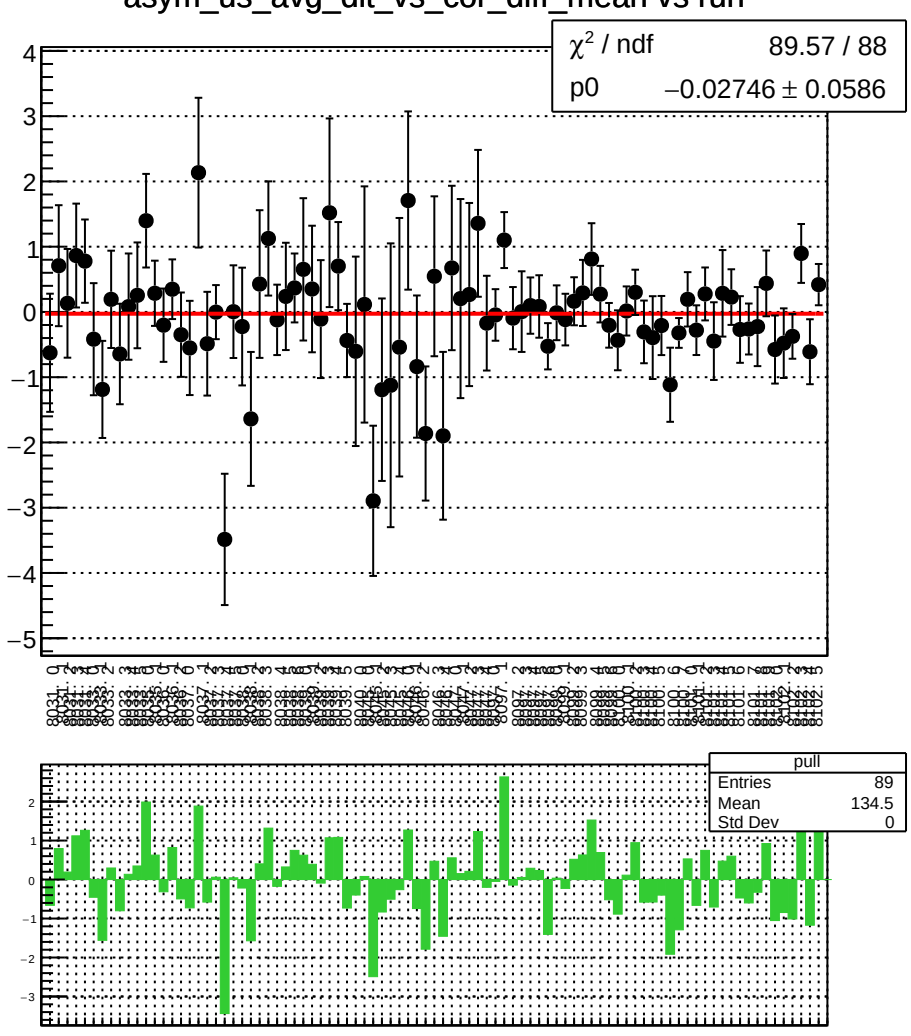
2
4
6
8

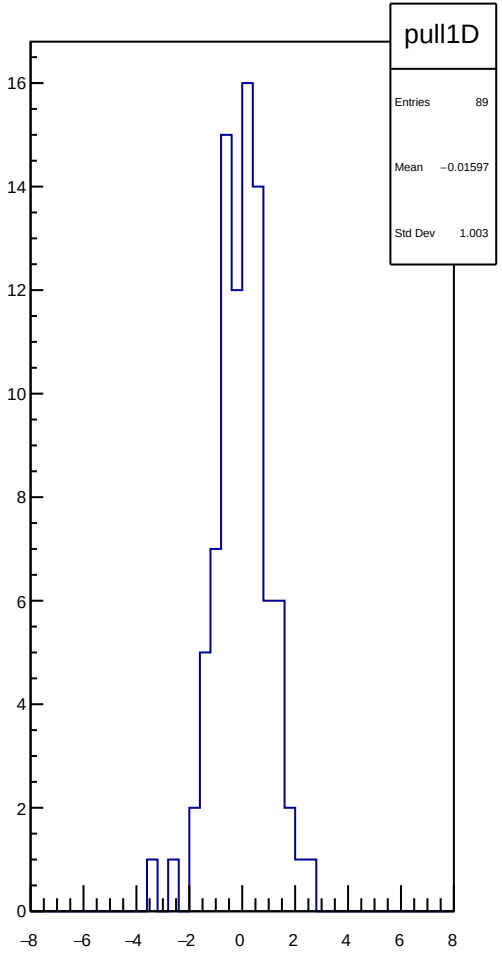

asym_us_avg_rms vs run
χ² / ndf 7599 / 88
p0 1727 ± 1.31
2000
1900
1800
1700
1600
1500

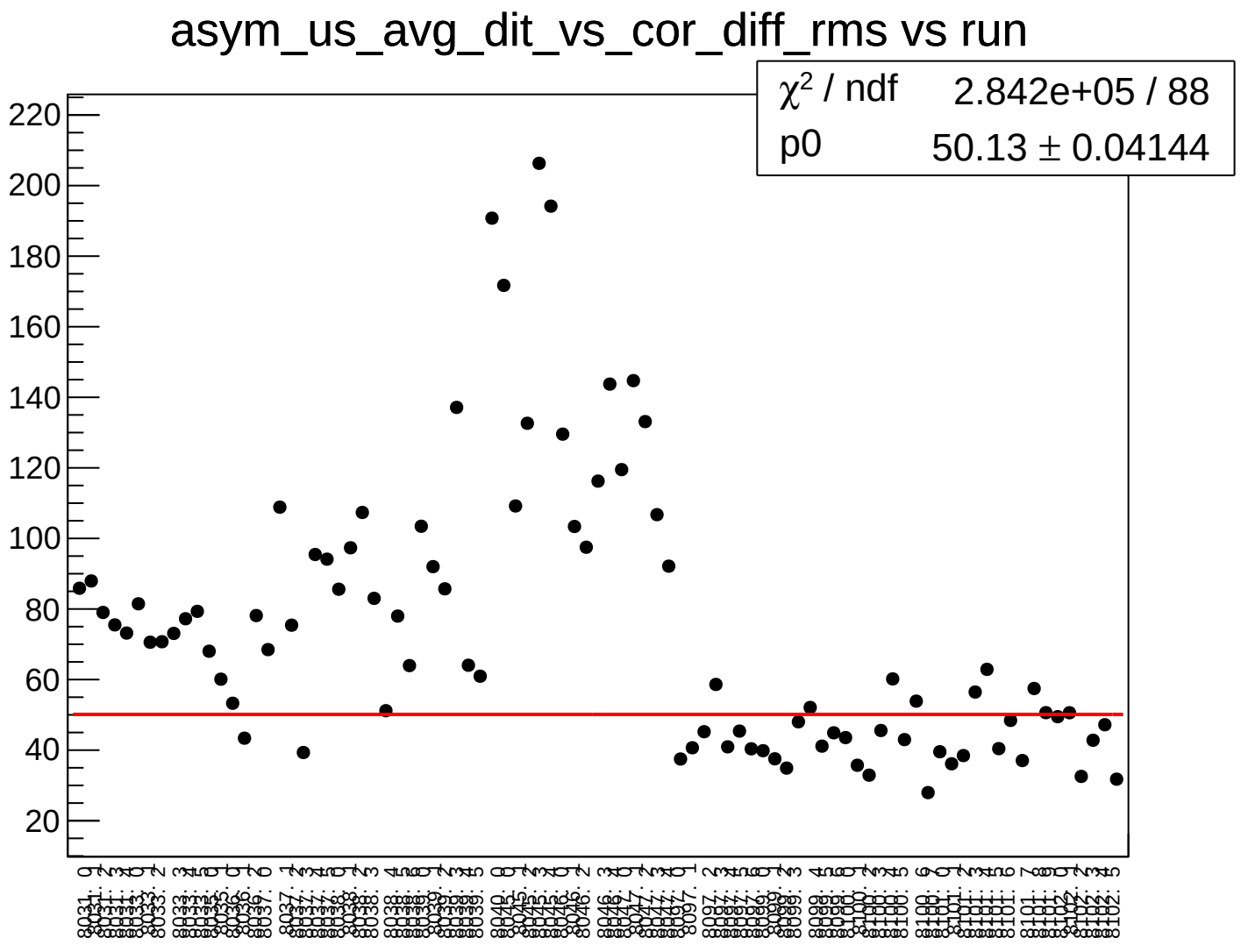

asym_us_avg_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.36 / 88
p0 3.183e−14 ± 1.552e−13
pull
Entries 89
Mean −124.5
Std Dev 0

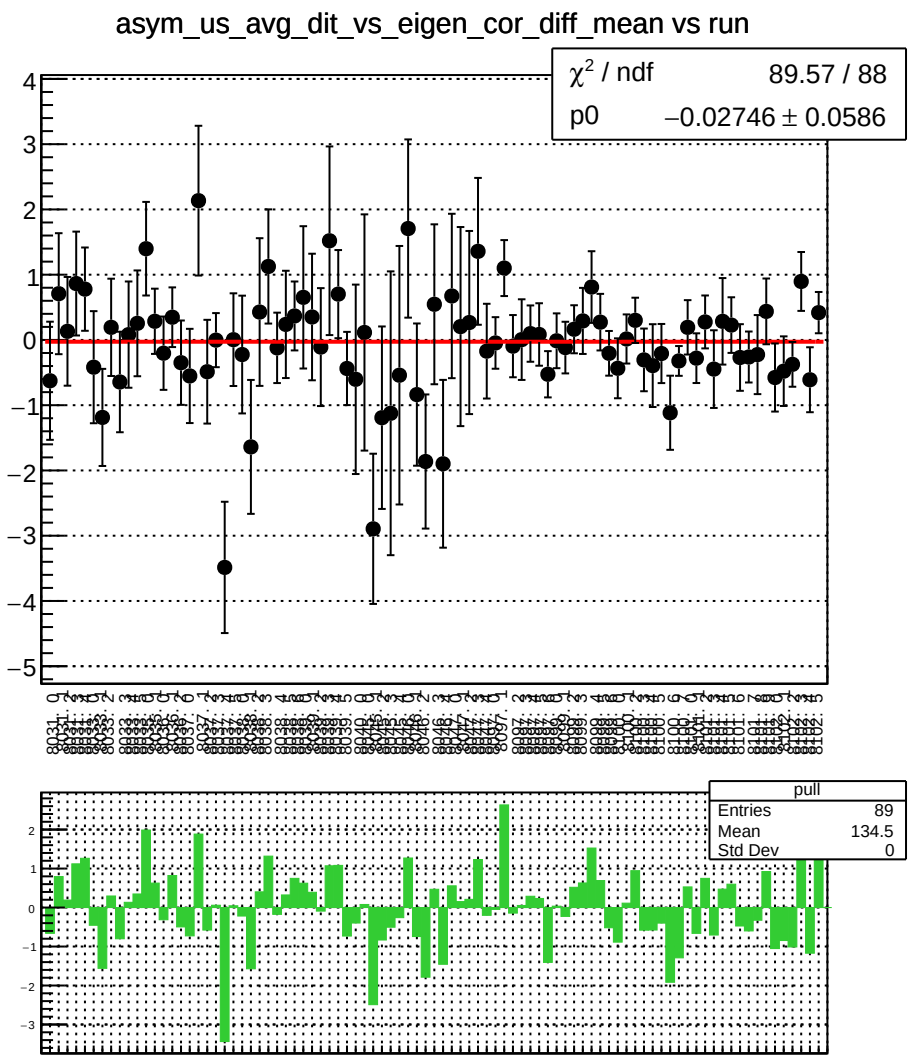

pull1D
Entries 89
Mean −0.01217
Std Dev 1.046

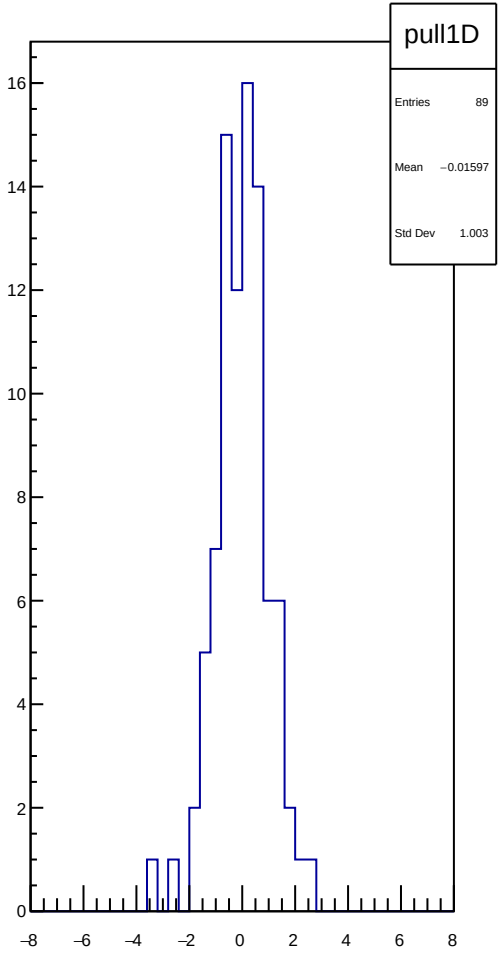

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.957e+05 / 88
p0 1.228e−10 ± 1.098e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

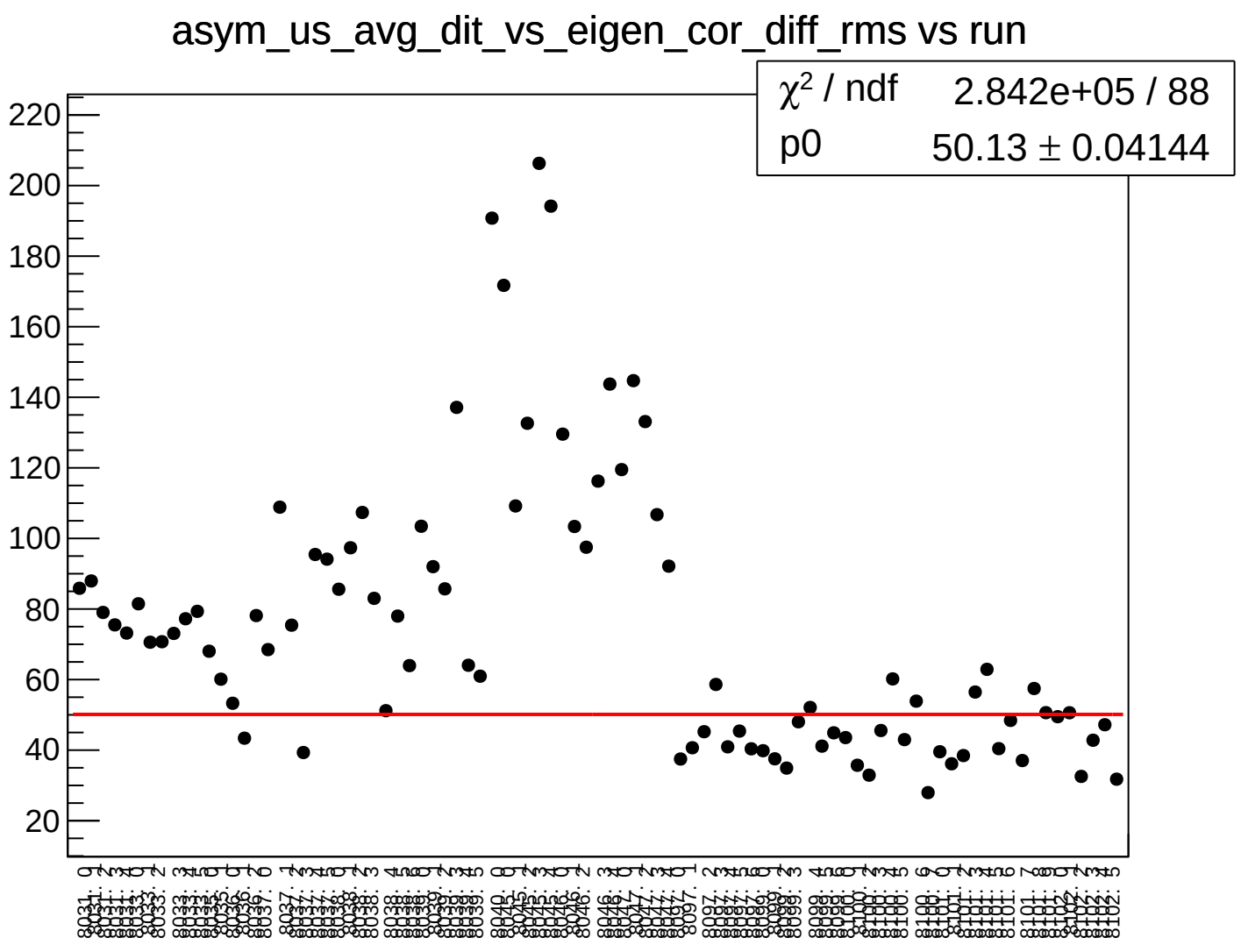

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 89.57 / 88
p0 −0.02746 ± 0.0586
pull
Entries 89
Mean 134.5
Std Dev 0

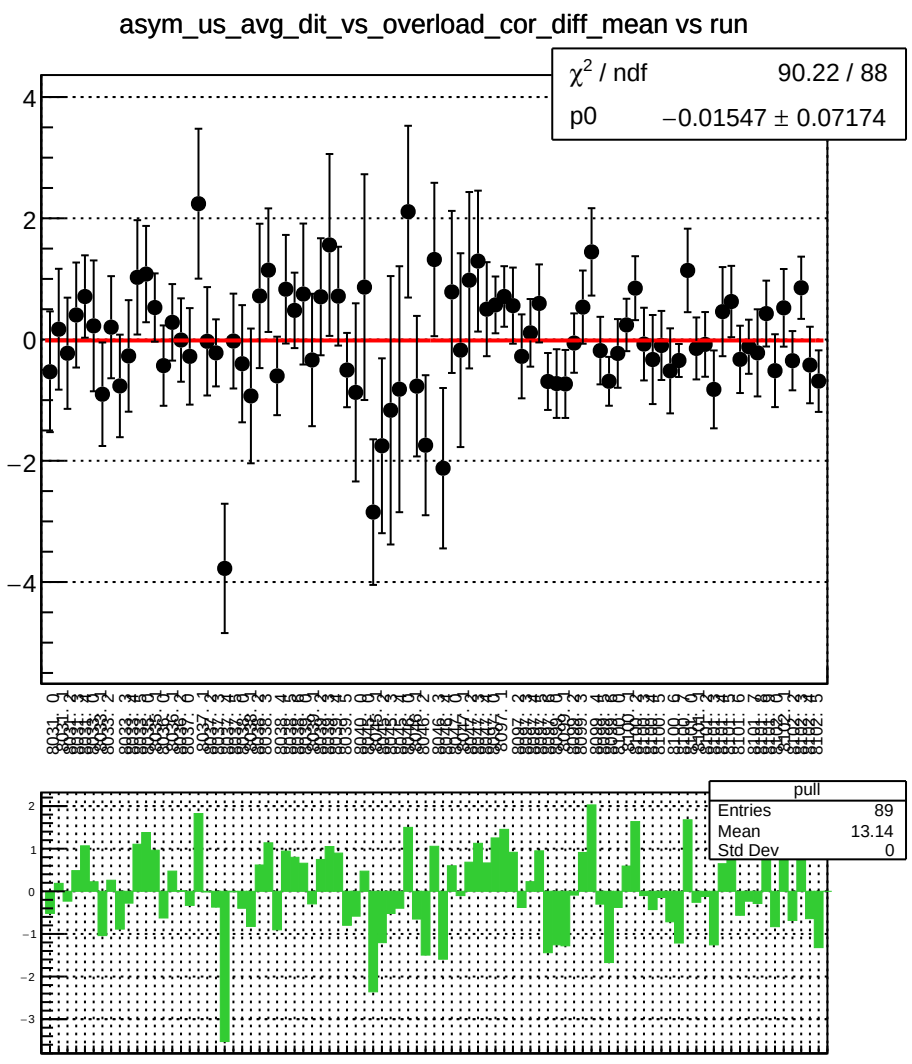

pull1D
Entries 89
Mean −0.01597
Std Dev 1.003

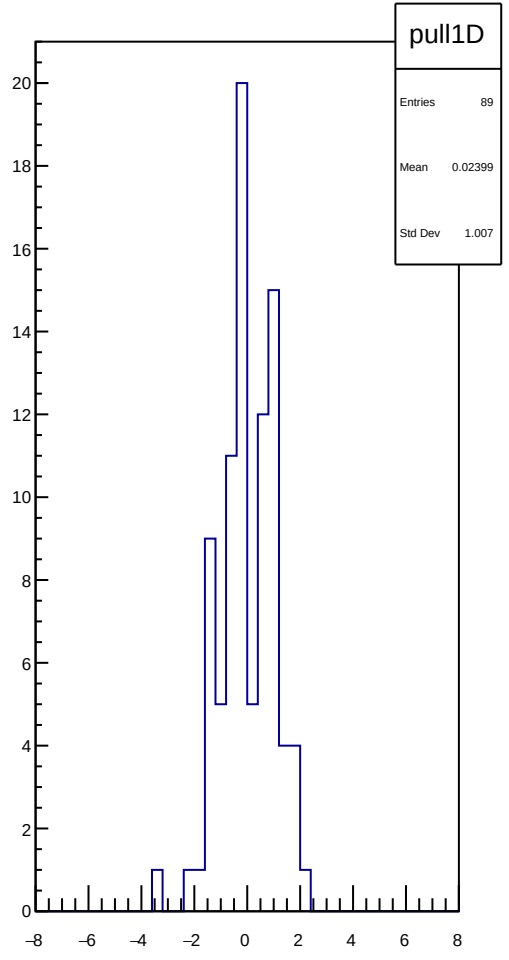

asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.842e+05 / 88
p0 50.13 ± 0.04144
220
200
180
160
140
120
100
80
60
40
20

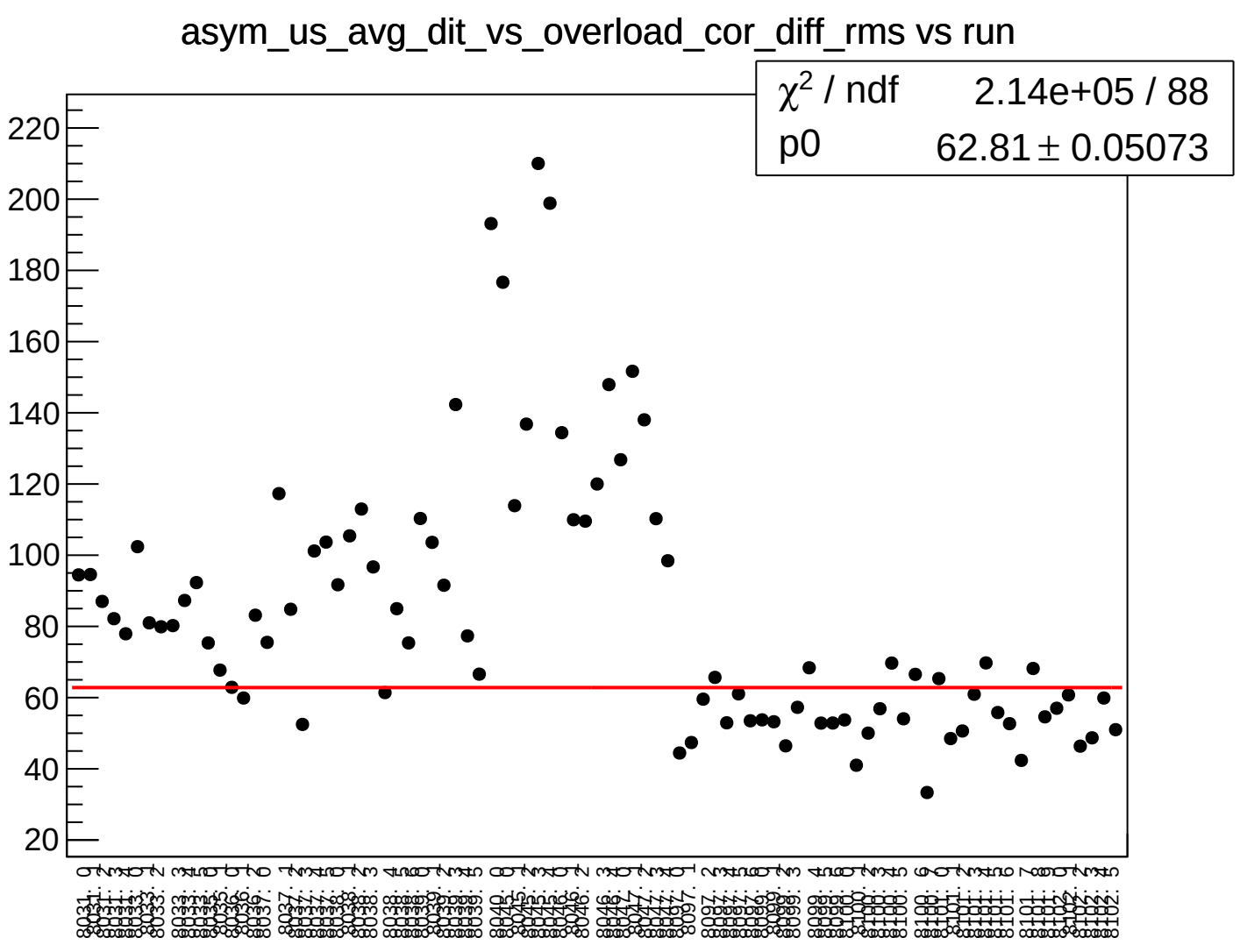

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.57 / 88
p0 −0.02746 ± 0.0586
pull
Entries 89
Mean 134.5
Std Dev 0

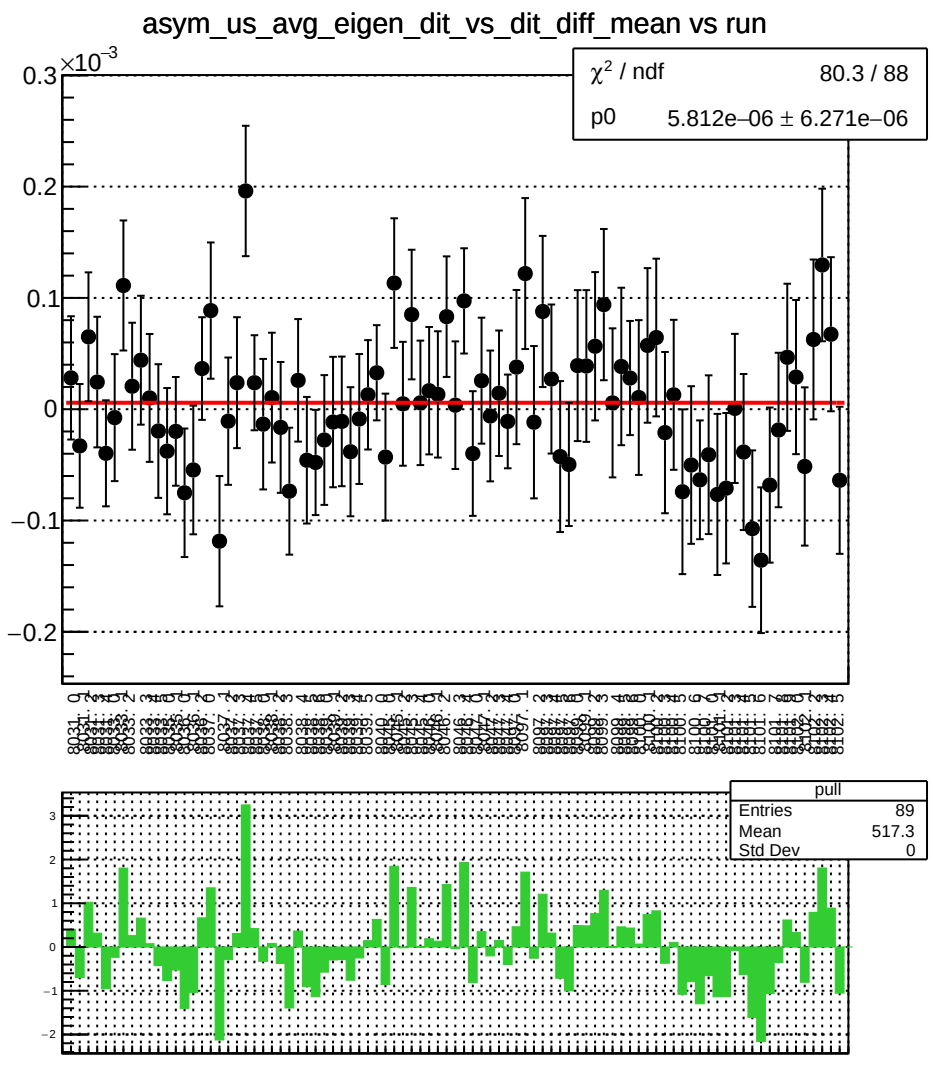

pull1D
Entries 89
Mean −0.01597
Std Dev 1.003

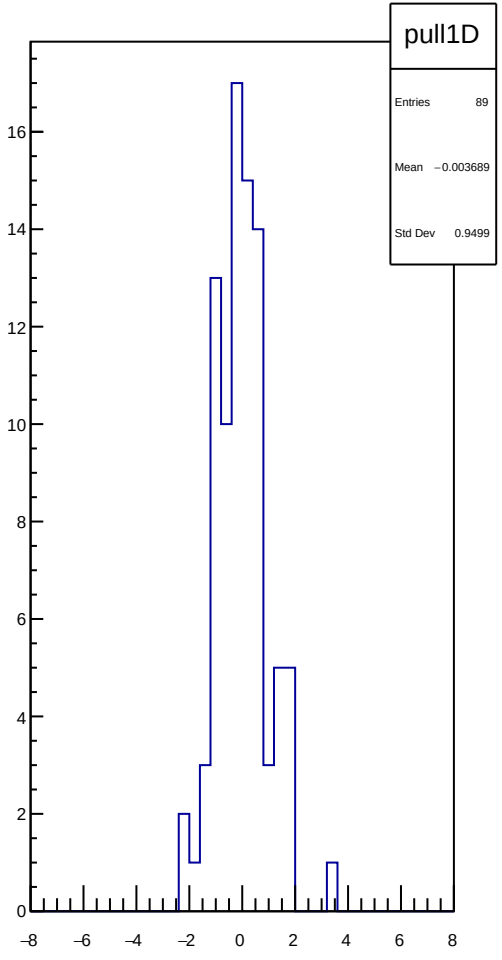

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.842e+05 / 88
p0 50.13 ± 0.04144
220
200
180
160
140
120
100
80
60
40
20

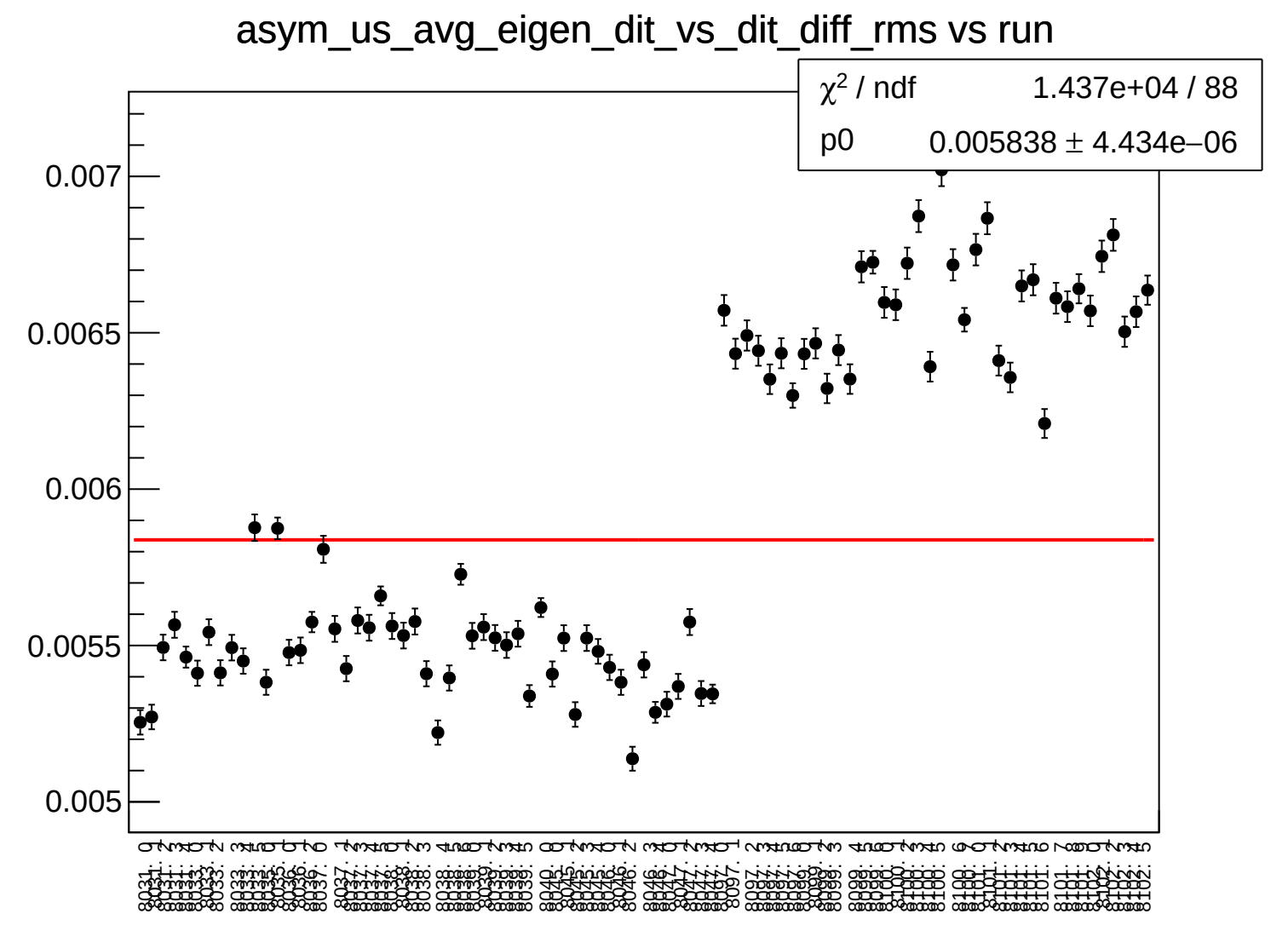

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 90.22 / 88
p0 −0.01547 ± 0.07174
pull
Entries 89
Mean 13.14
Std Dev 0

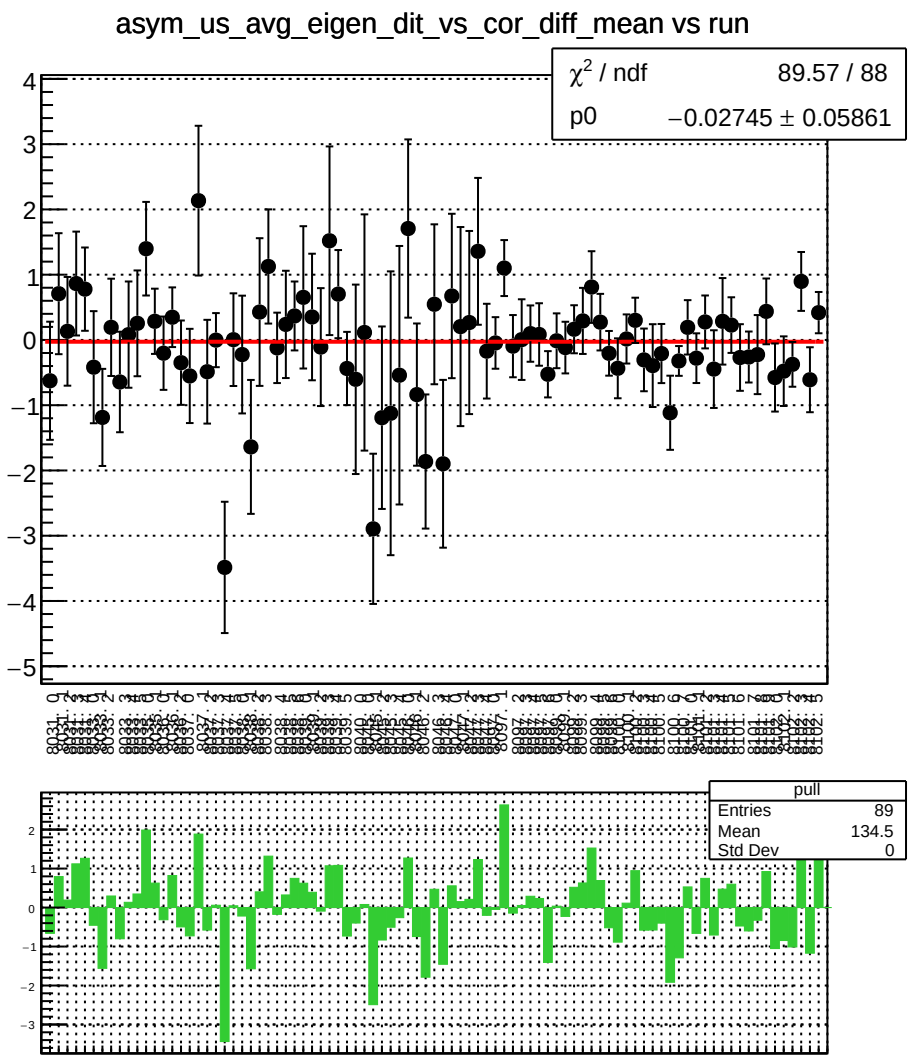

pull1D
Entries 89
Mean 0.02399
Std Dev 1.007

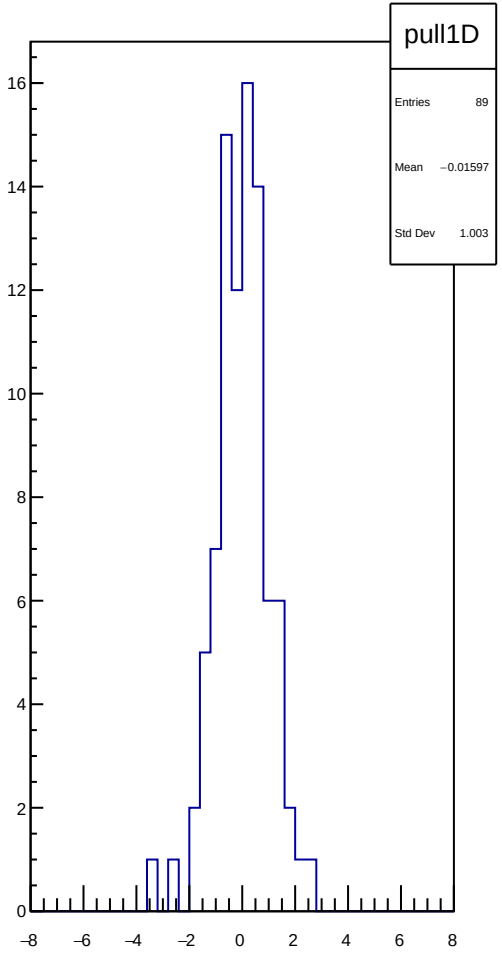

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.14e+05 / 88
p0 62.81 ± 0.05073
220
200
180
160
140
120
100
80
60
40
20

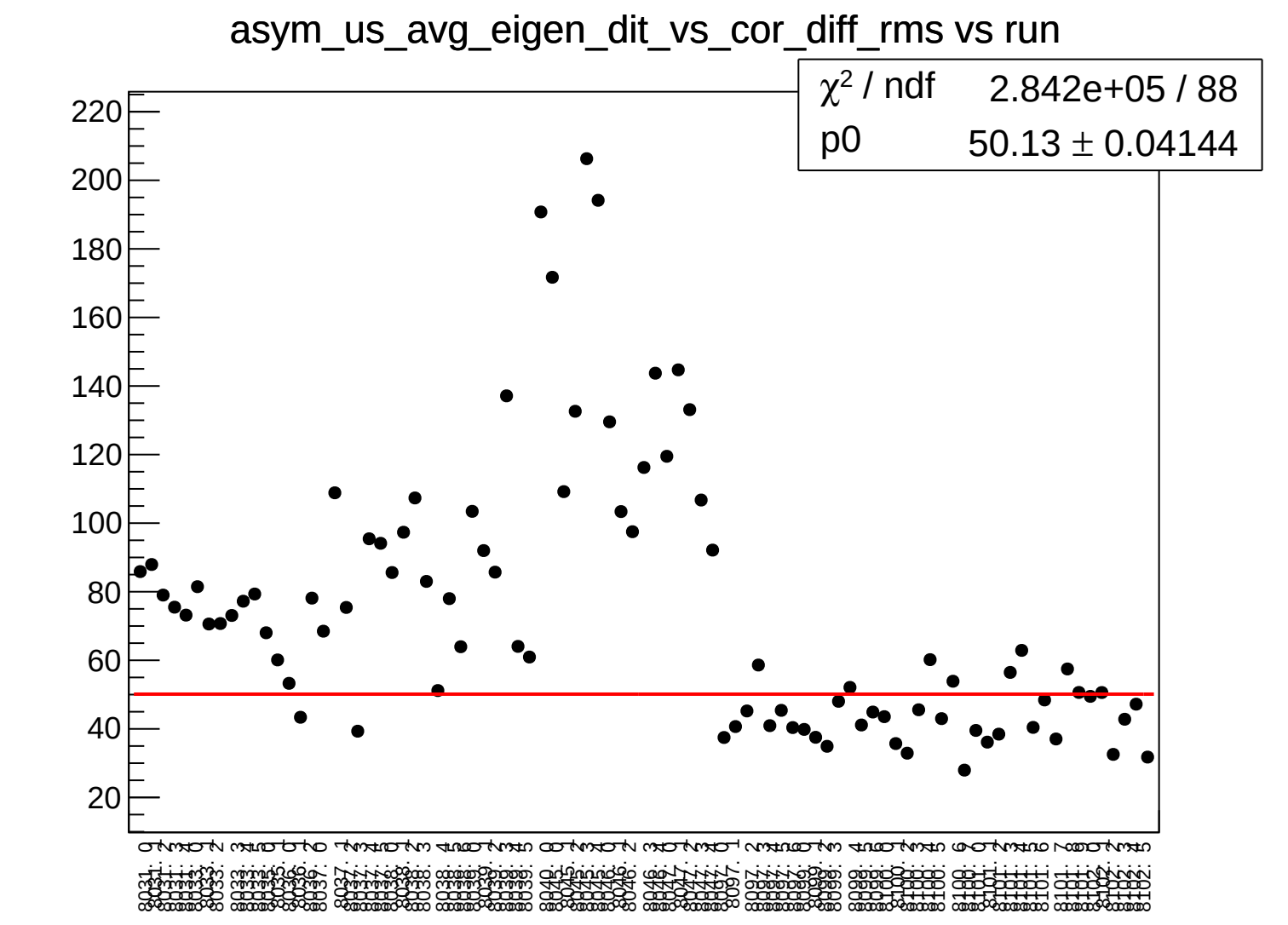

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 80.3 / 88
p0 5.812e−06 ± 6.271e−06
×10⁻³
pull
Entries 89
Mean 517.3
Std Dev 0

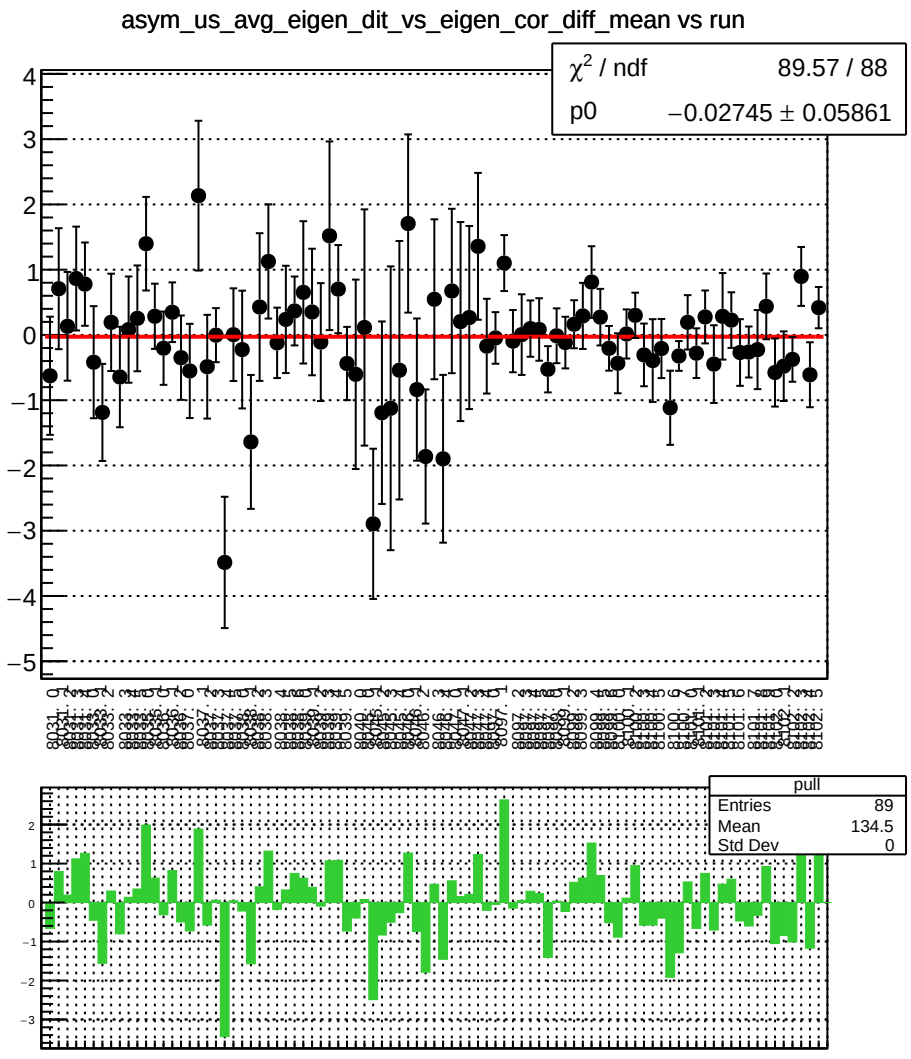

pull1D
Entries 89
Mean −0.003689
Std Dev 0.9499

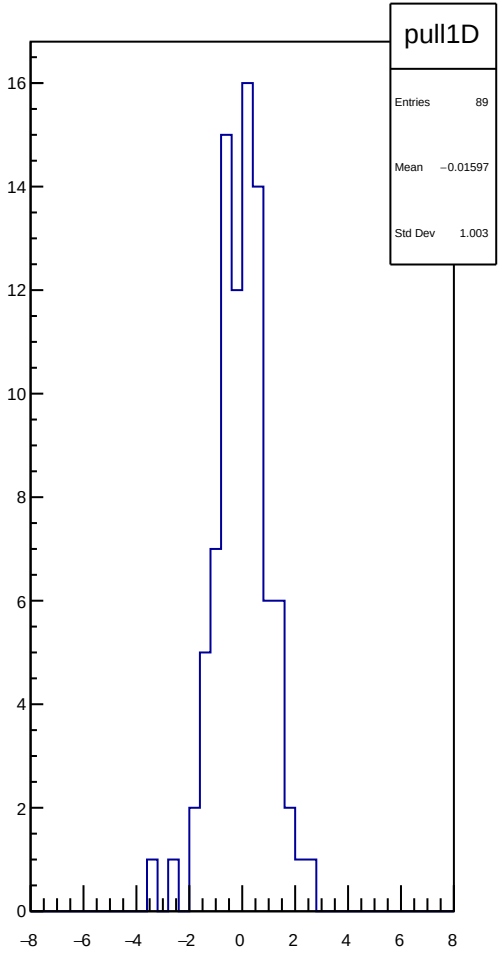

asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.437e+04 / 88
p0 0.005838 ± 4.434e−06
0.007
0.0065
0.006
0.0055
0.005

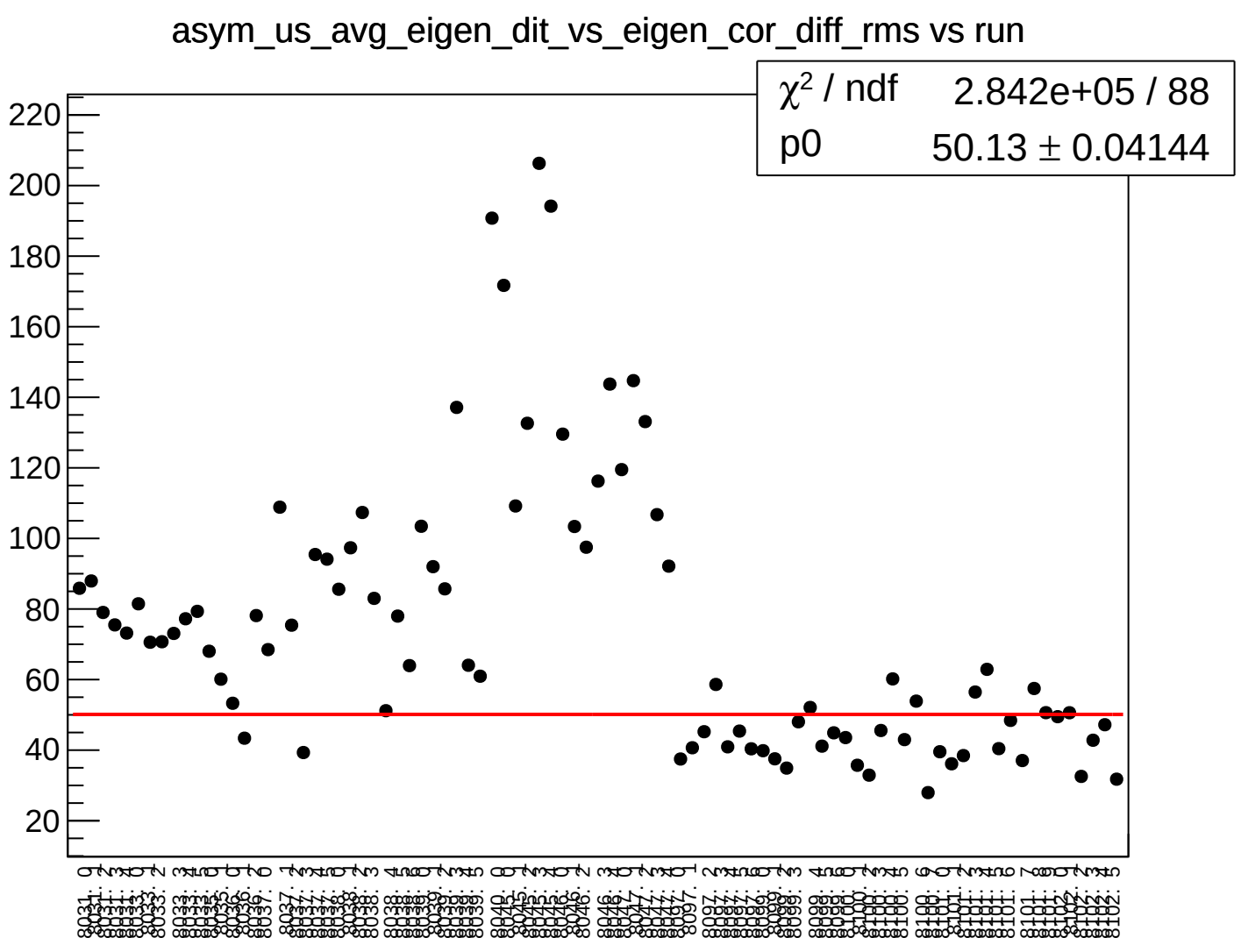

asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.57 / 88
p0 −0.02745 ± 0.05861
pull
Entries 89
Mean 134.5
Std Dev 0

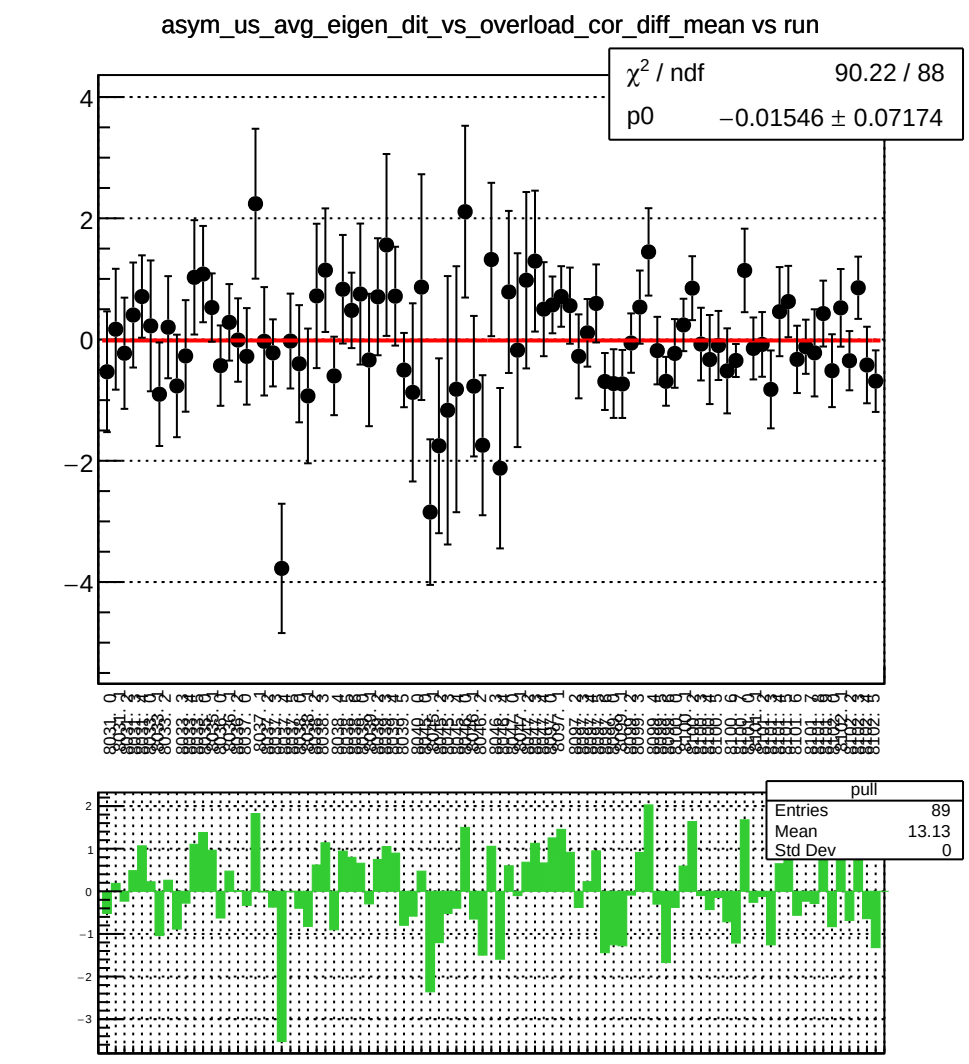

pull1D
Entries 89
Mean −0.01597
Std Dev 1.003

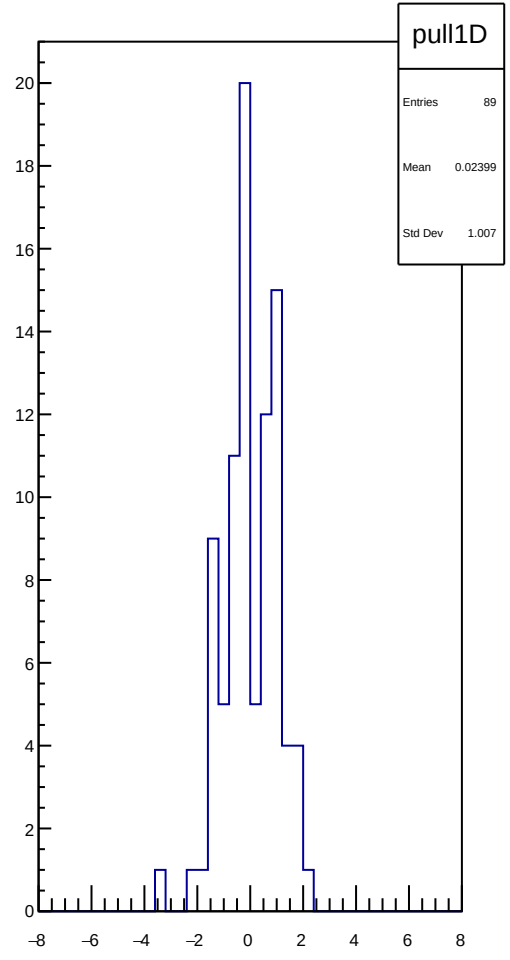

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.842e+05 / 88
p0 50.13 ± 0.04144
220
200
180
160
140
120
100
80
60
40
20

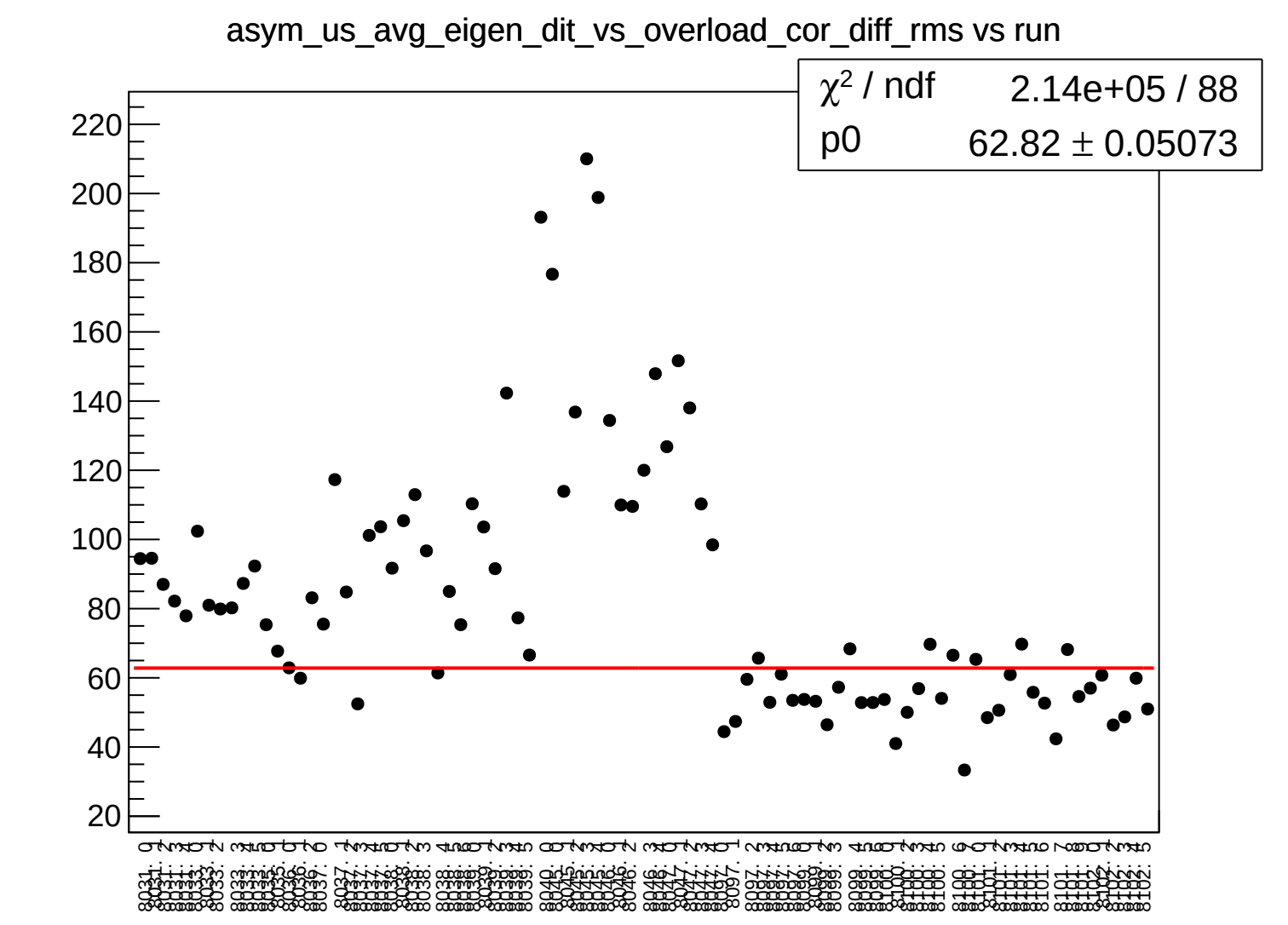

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.57 / 88
p0 −0.02745 ± 0.05861
pull
Entries 89
Mean 134.5
Std Dev 0

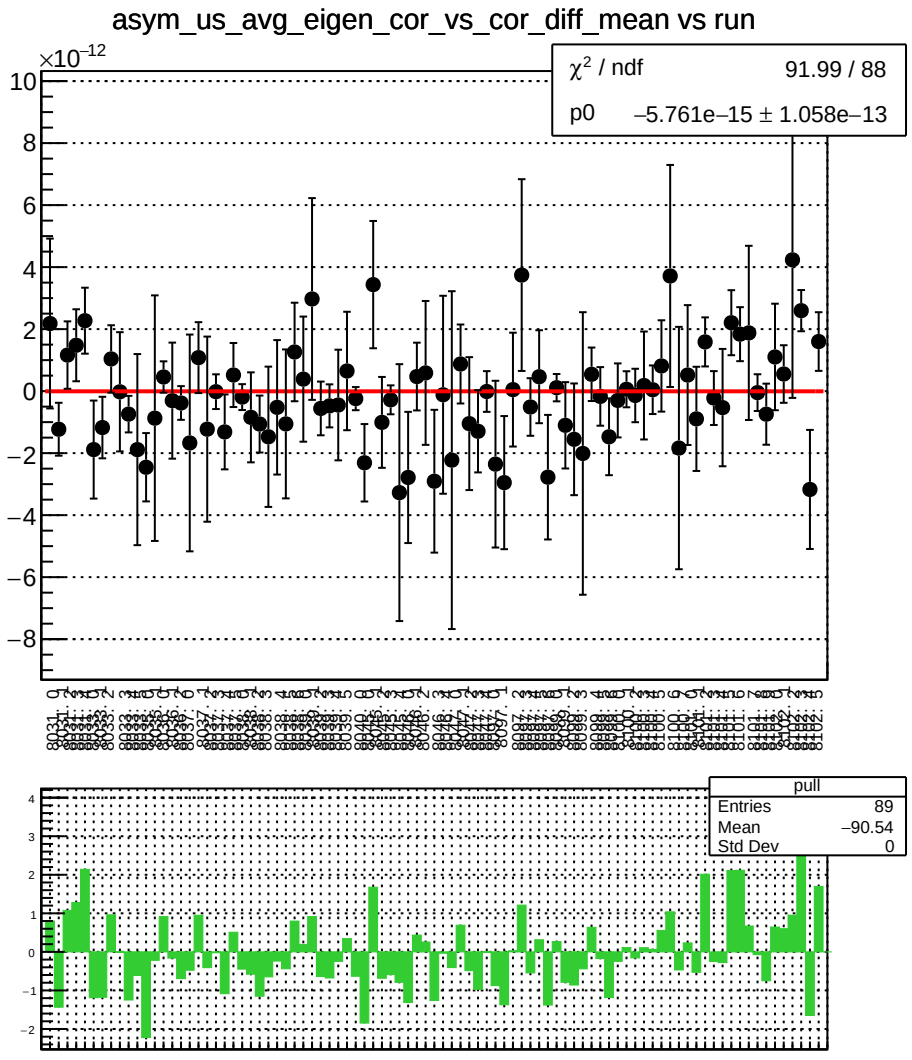

pull1D
Entries 89
Mean −0.01597
Std Dev 1.003

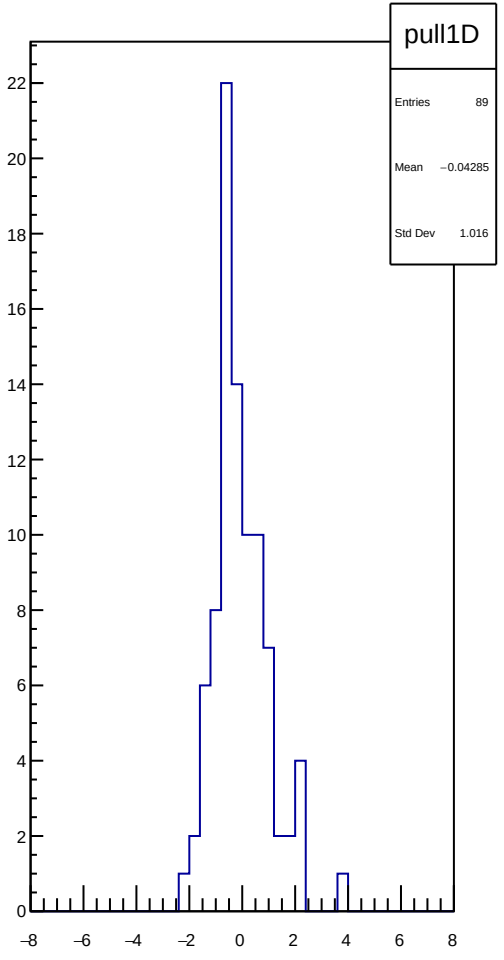

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.842e+05 / 88
p0 50.13 ± 0.04144
220
200
180
160
140
120
100
80
60
40
20

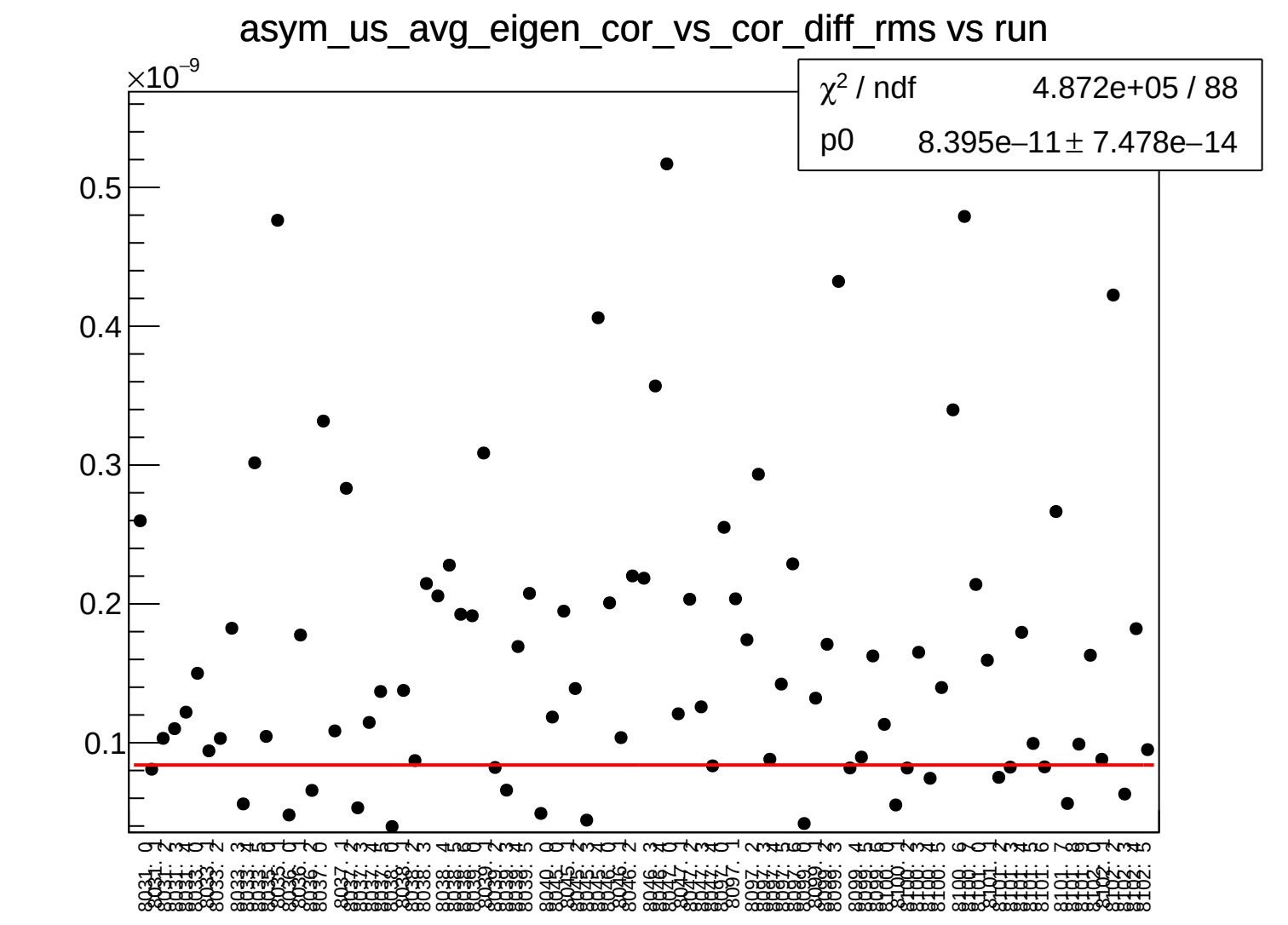

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 90.22 / 88
p0 −0.01546 ± 0.07174
pull
Entries 89
Mean 13.13
Std Dev 0

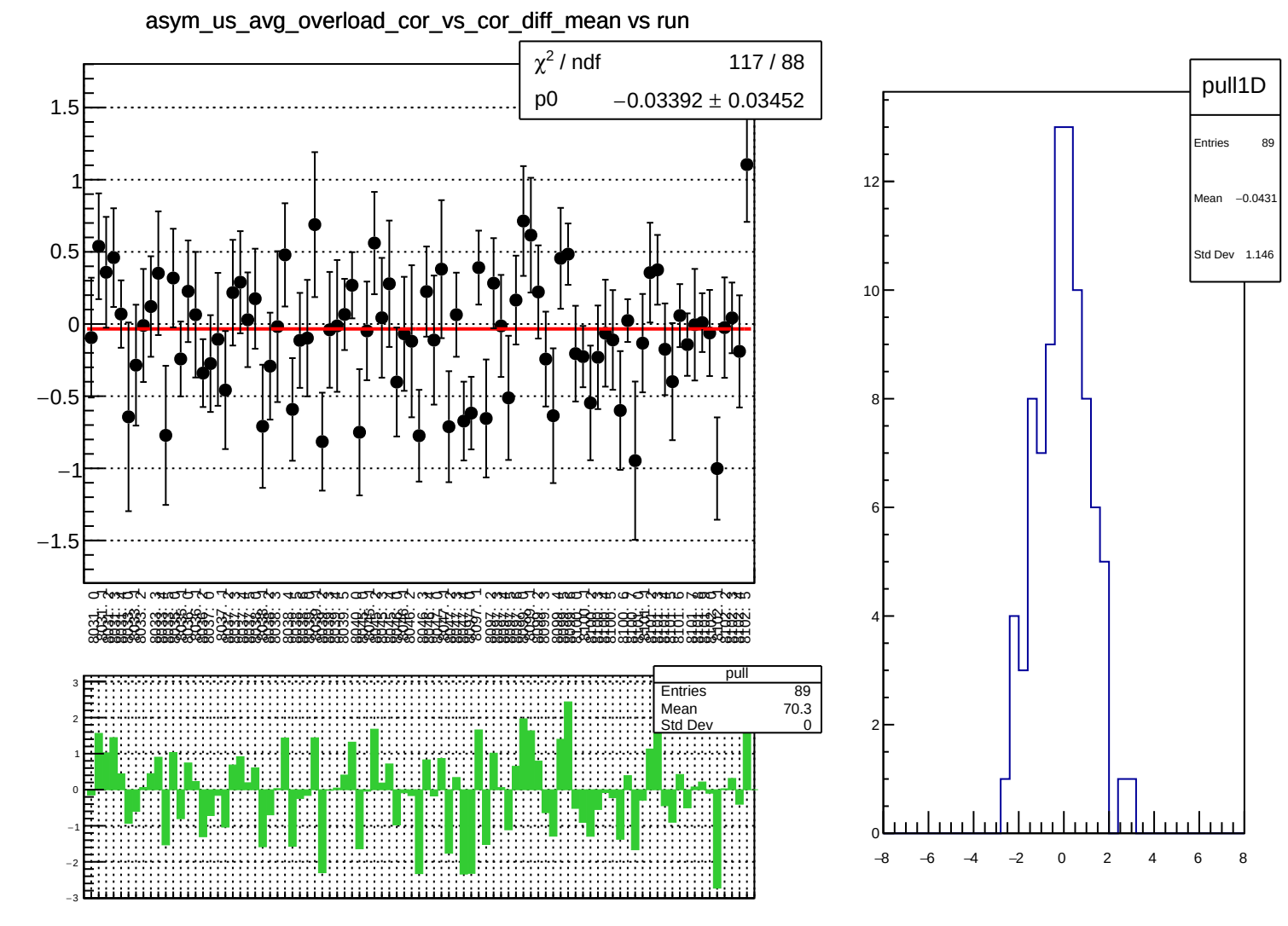

pull1D
Entries 89
Mean 0.02399
Std Dev 1.007

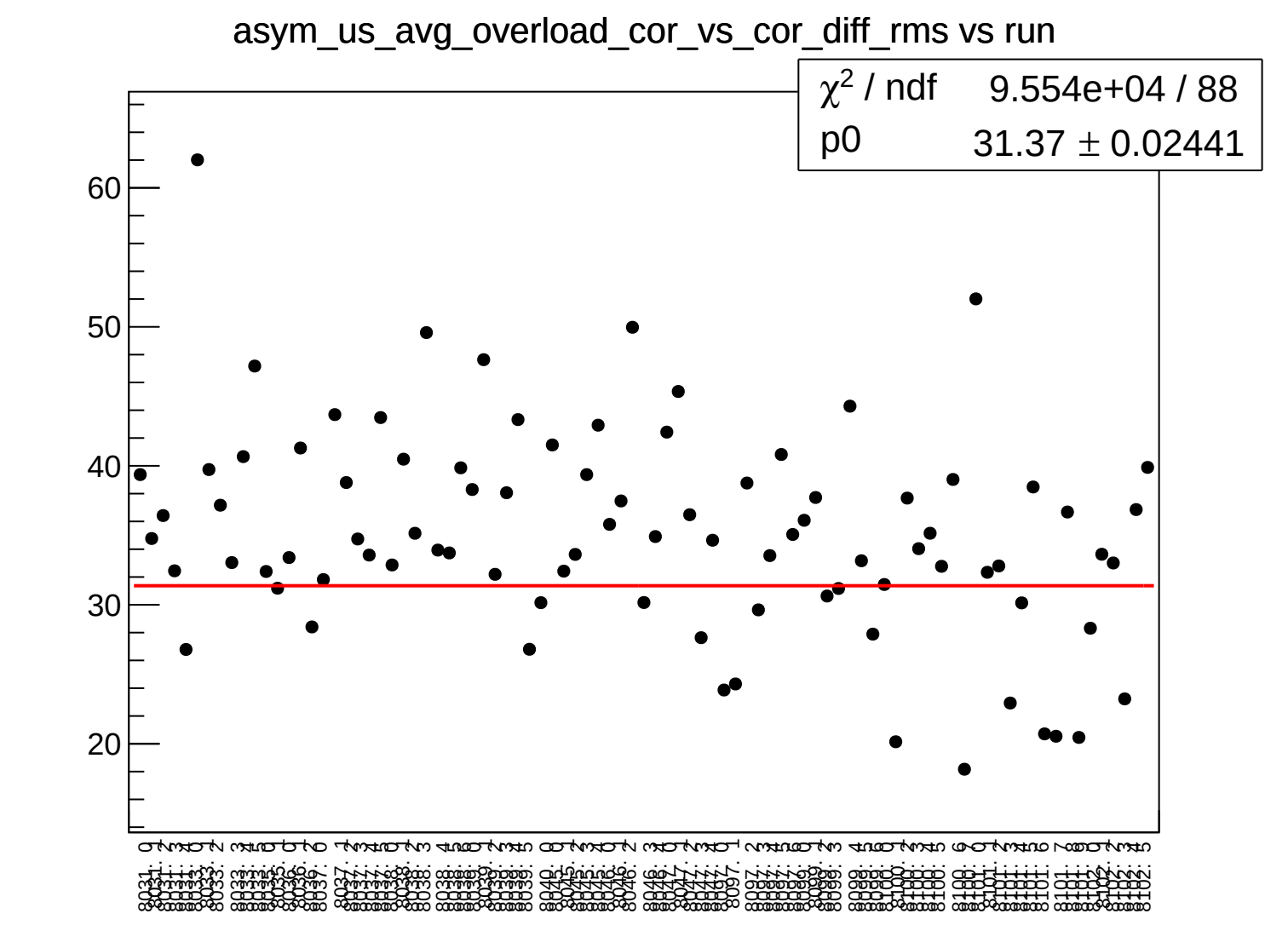

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.14e+05 / 88
p0 62.82 ± 0.05073
220
200
180
160
140
120
100
80
60
40
20

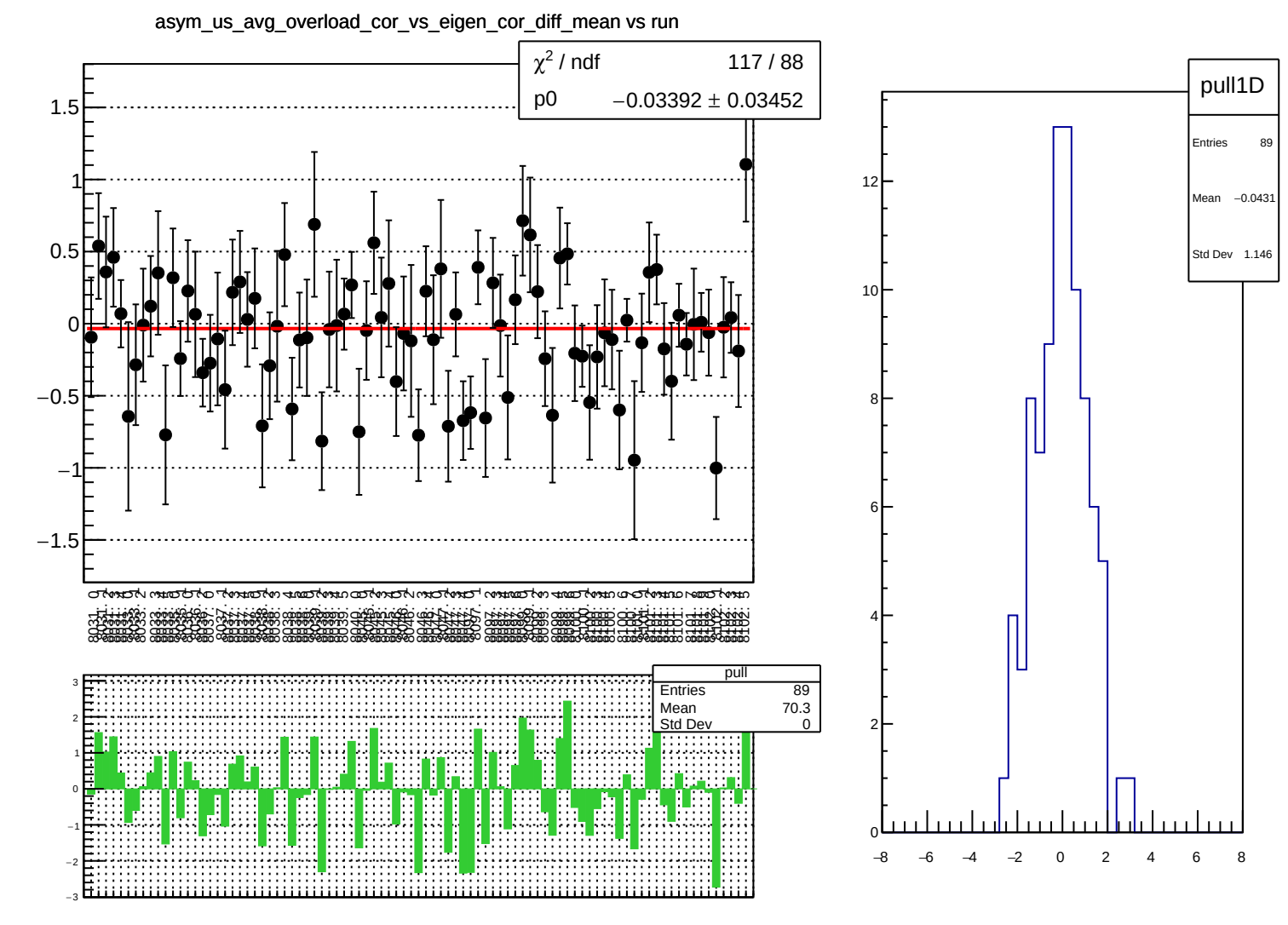

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.99 / 88
p0 −5.761e−15 ± 1.058e−13
pull
Entries 89
Mean −90.54
Std Dev 0

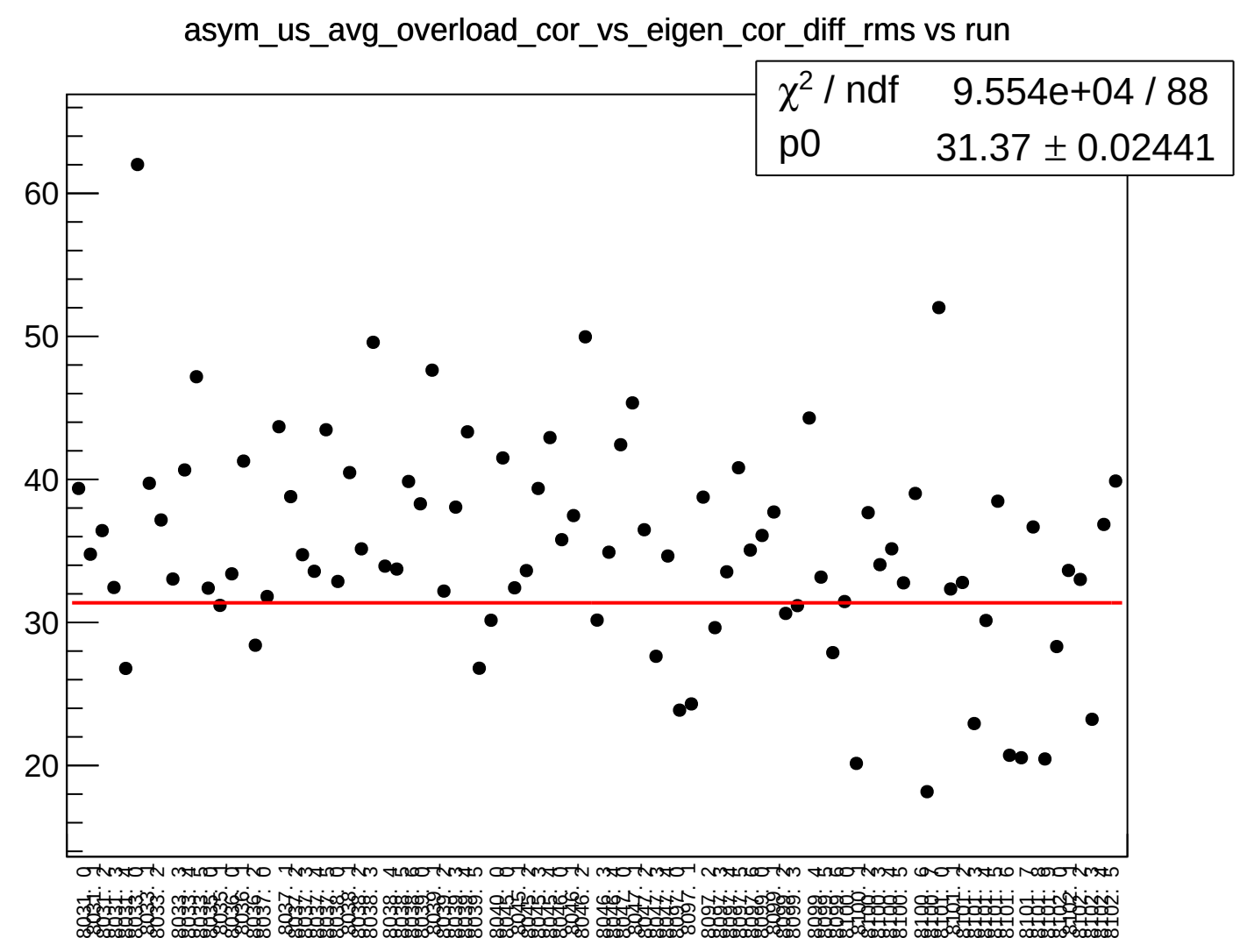

pull1D
Entries 89
Mean −0.04285
Std Dev 1.016

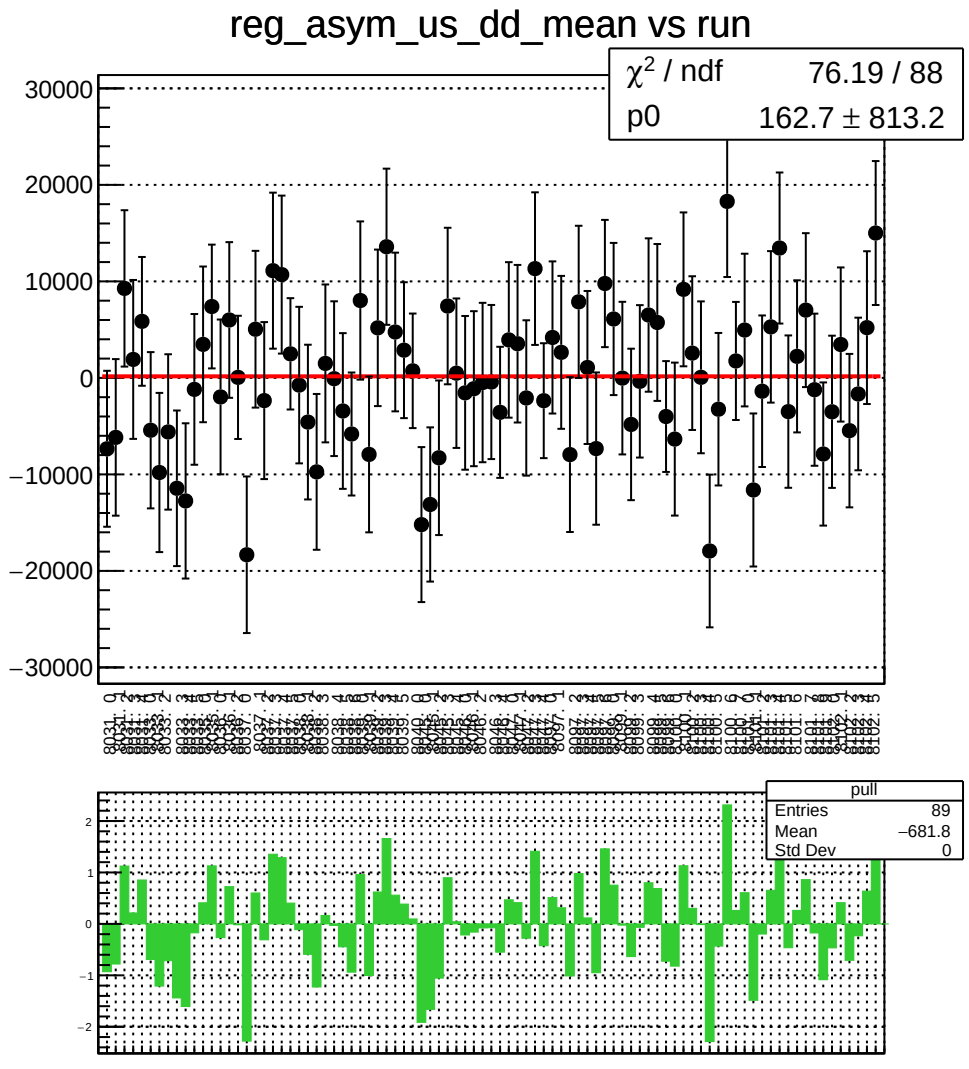

asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.872e+05 / 88
p0 8.395e−11 ± 7.478e−14
0.5
0.4
0.3
0.2
0.1

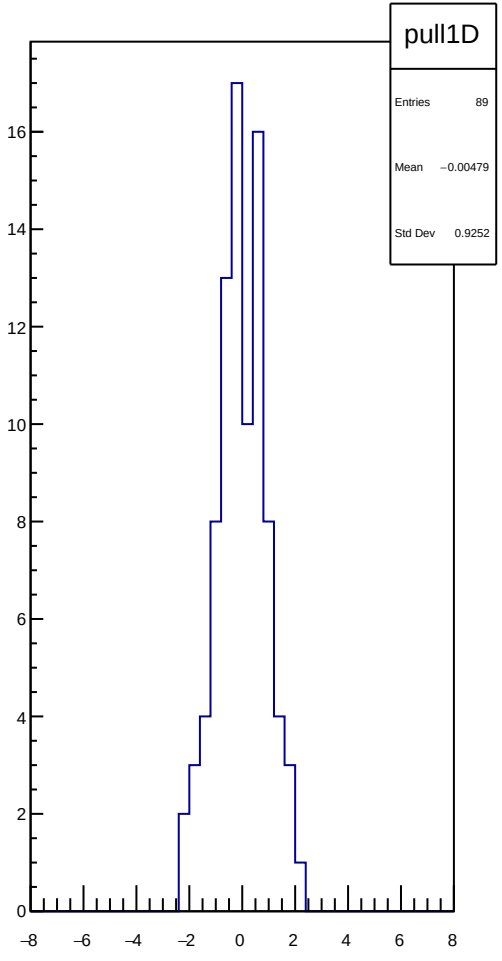

asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 117 / 88
p0 −0.03392 ± 0.03452
pull
Entries 89
Mean 70.3
Std Dev 0
pull1D
Entries 89
Mean −0.0431
Std Dev 1.146

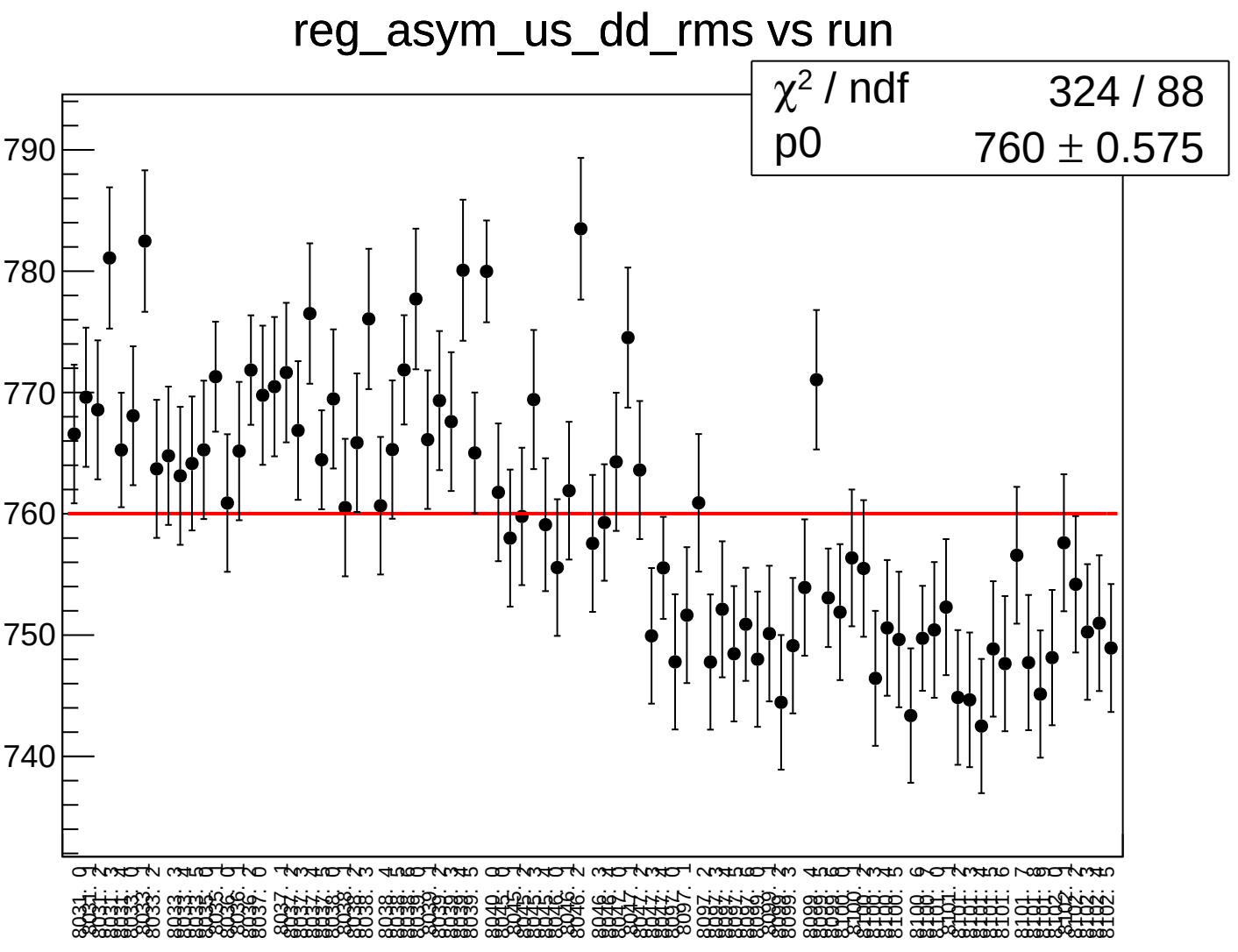

asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 9.554e+04 / 88
p0 31.37 ± 0.02441
60
50
40
30
20

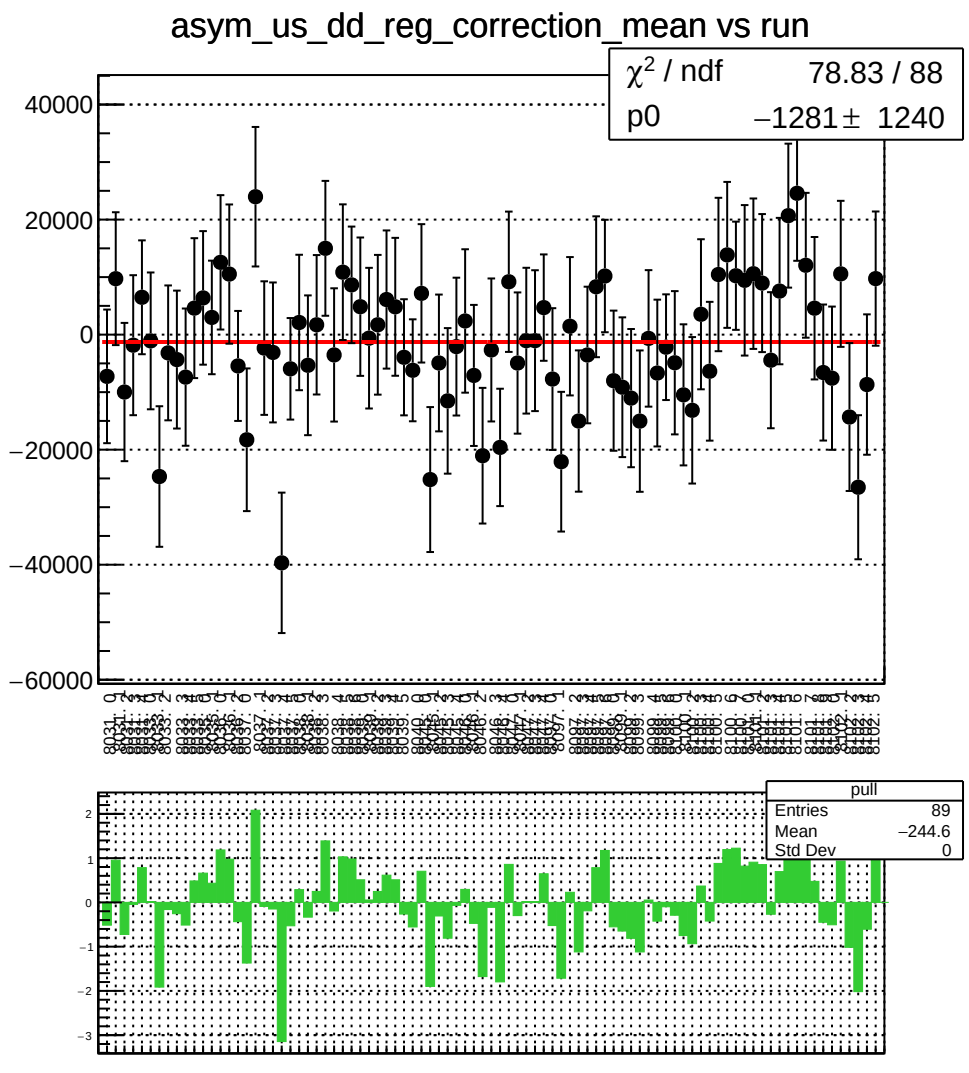

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 117 / 88
p0 −0.03392 ± 0.03452
pull
Entries 89
Mean 70.3
Std Dev 0
pull1D
Entries 89
Mean −0.0431
Std Dev 1.146

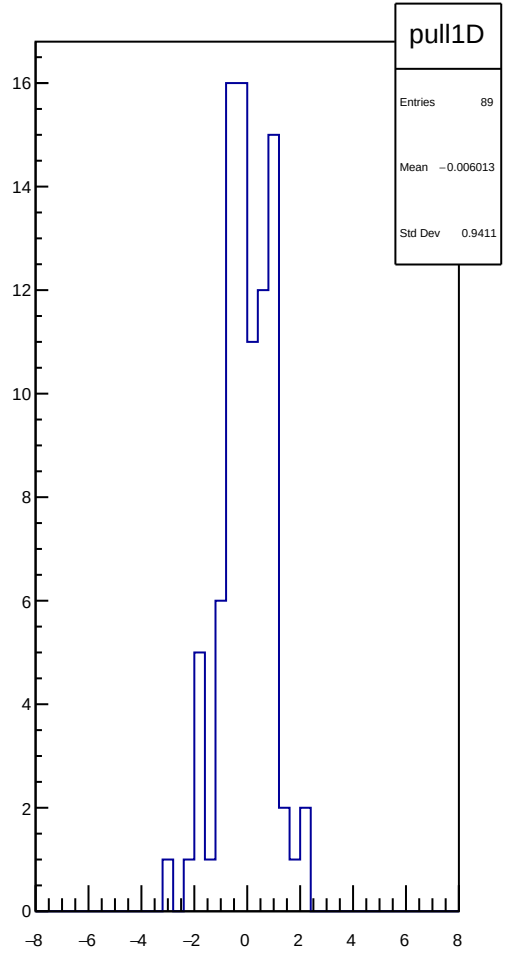

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.554e+04 / 88
p0 31.37 ± 0.02441
60
50
40
30
20

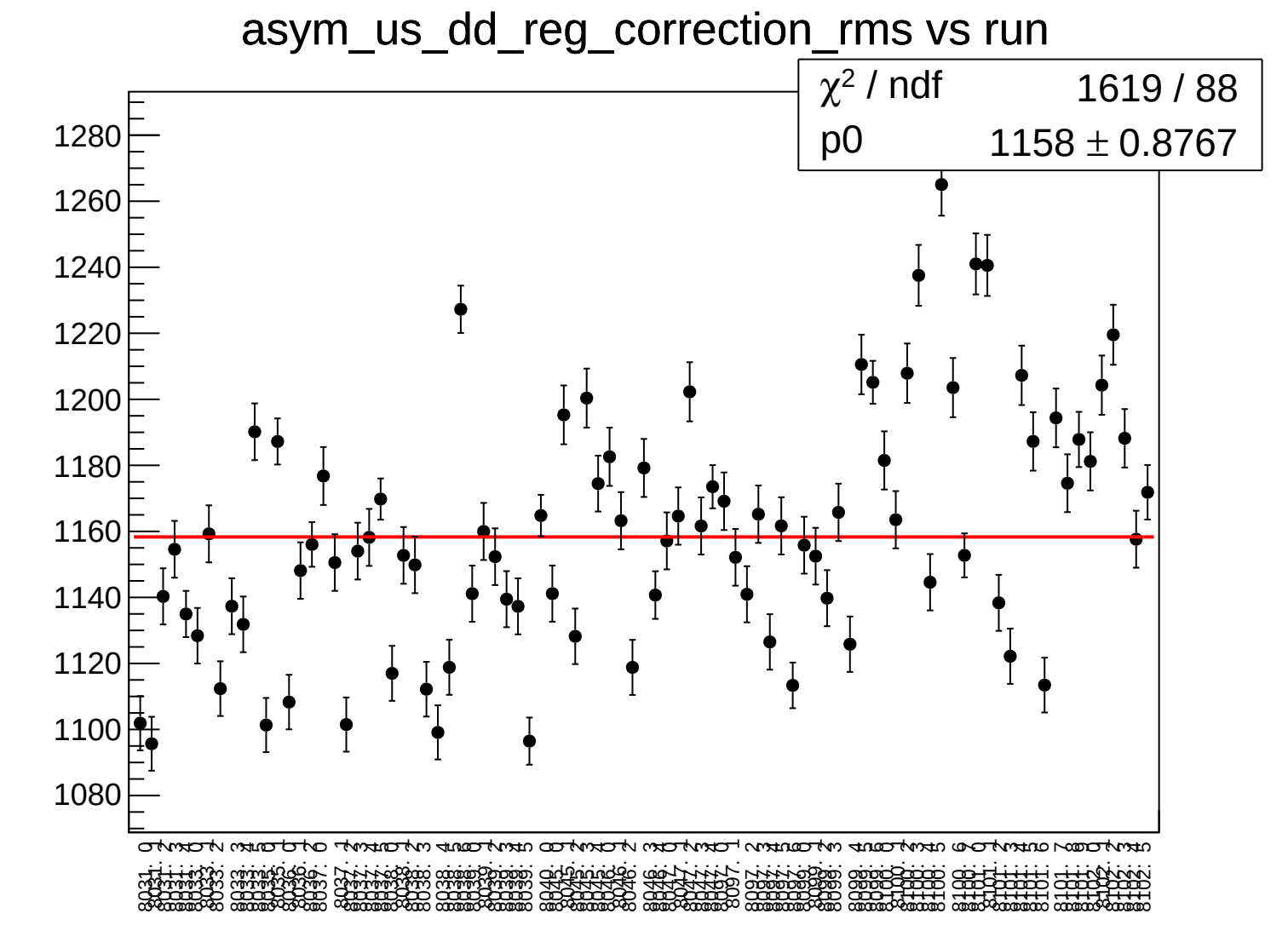

reg_asym_us_dd_mean vs run
χ² / ndf 76.19 / 88
p0 162.7 ± 813.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −681.8
Std Dev 0
2
1
0
−1
−2

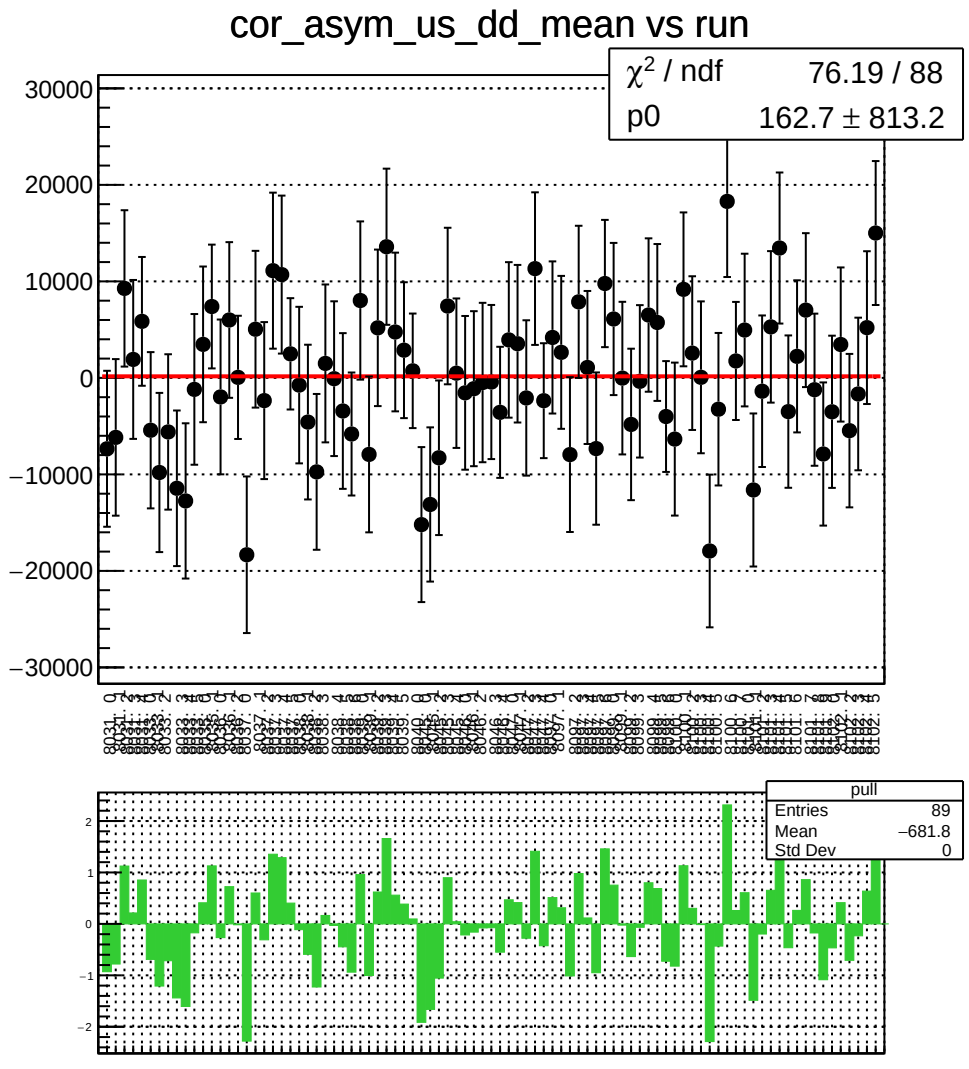

pull1D
Entries 89
Mean −0.00479
Std Dev 0.9252
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

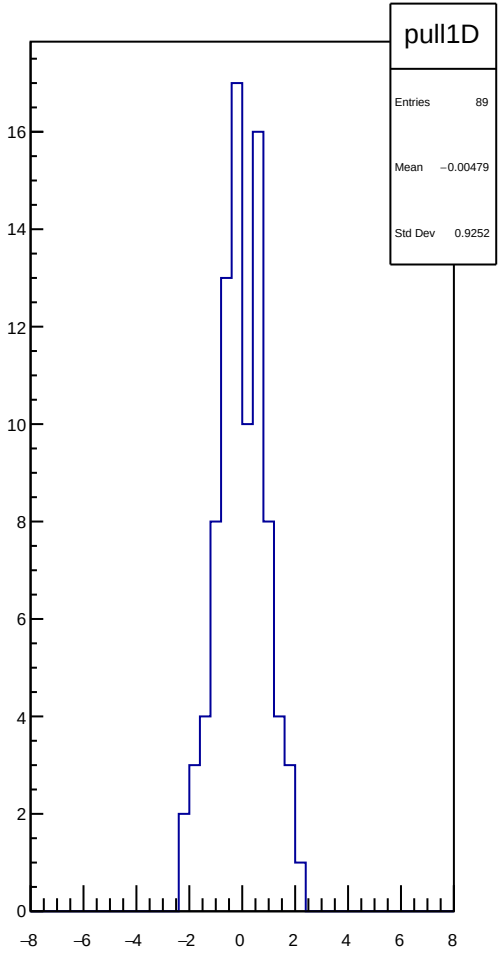

reg_asym_us_dd_rms vs run
χ² / ndf 324 / 88
p0 760 ± 0.575
790
780
770
760
750
740

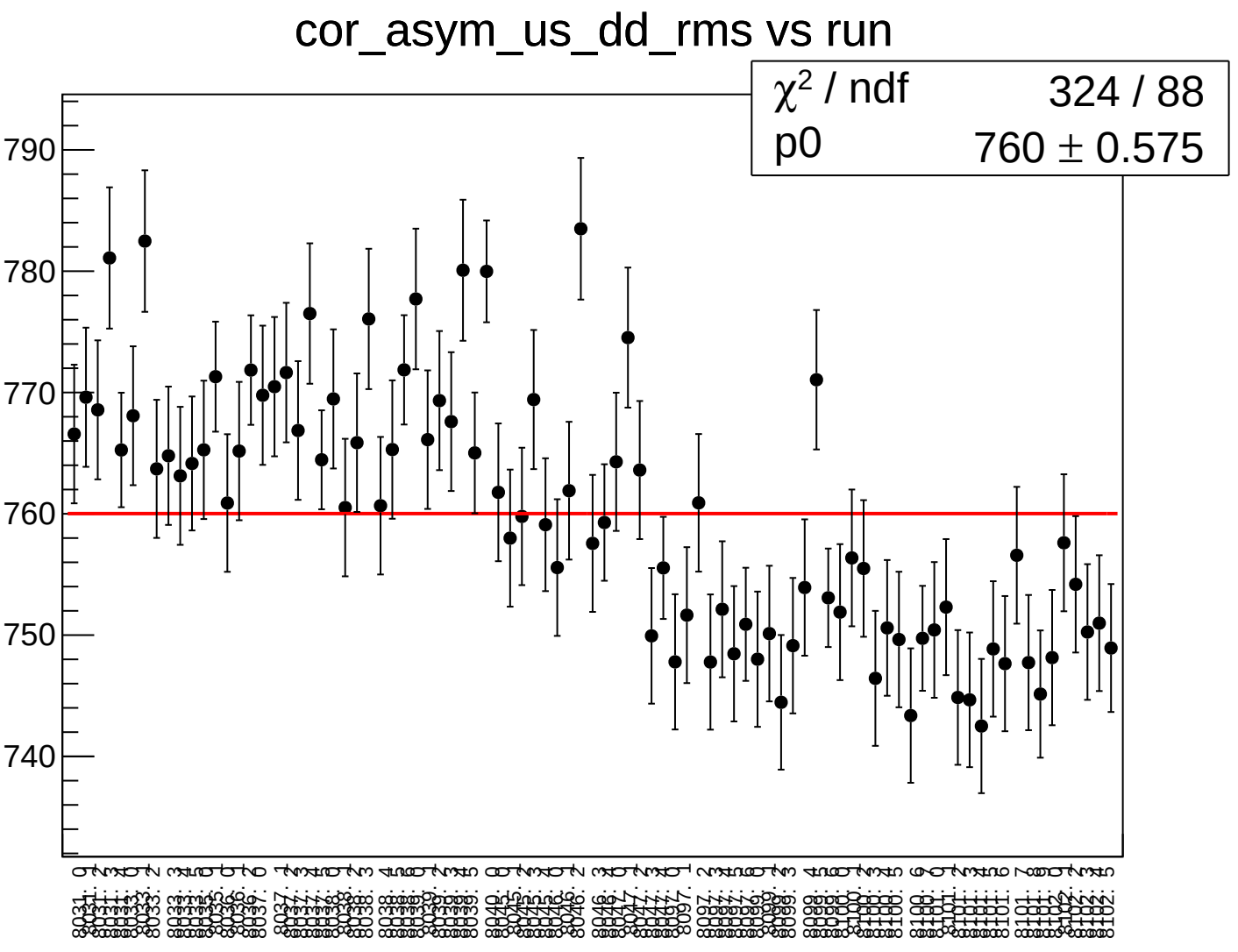

asym_us_dd_reg_correction_mean vs run
χ² / ndf 78.83 / 88
p0 −1281 ± 1240
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −244.6
Std Dev 0
2
1
0
−1
−2
−3

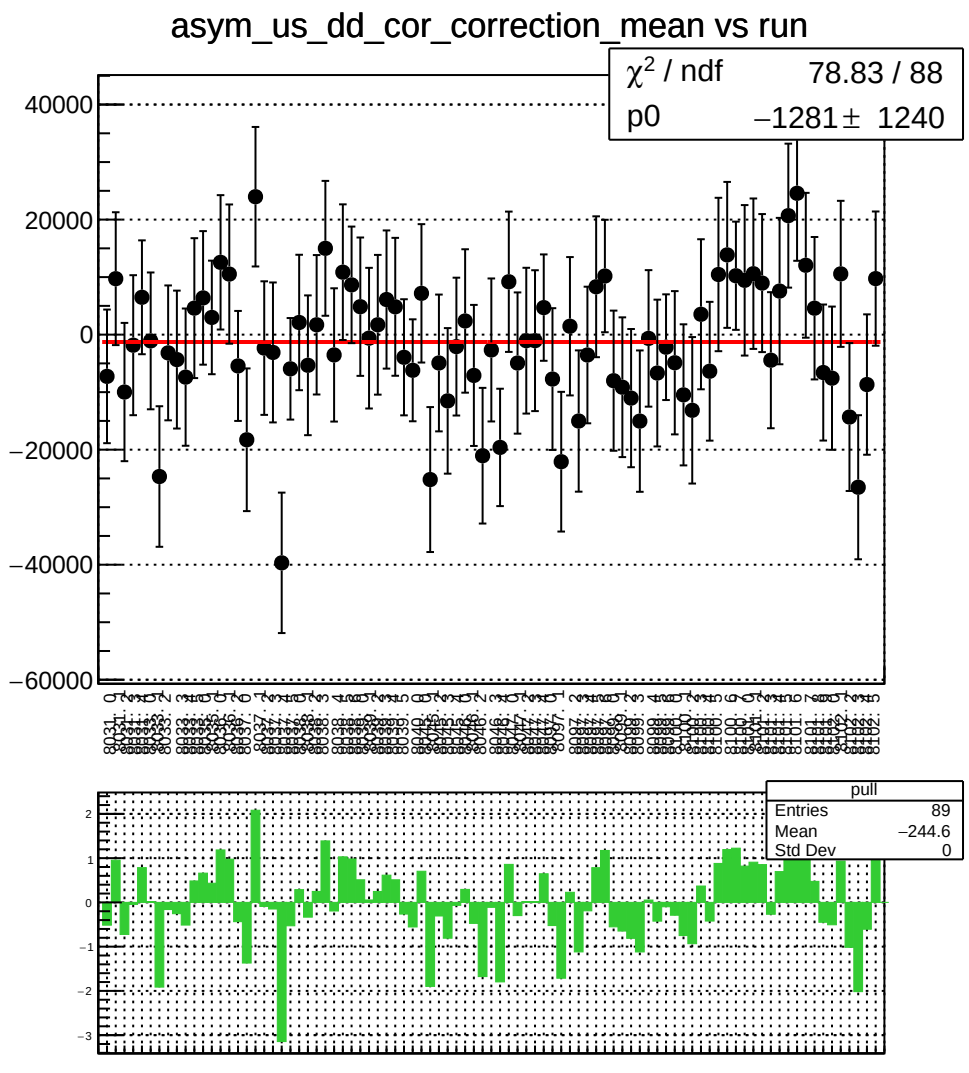

pull1D
Entries 89
Mean −0.006013
Std Dev 0.9411
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

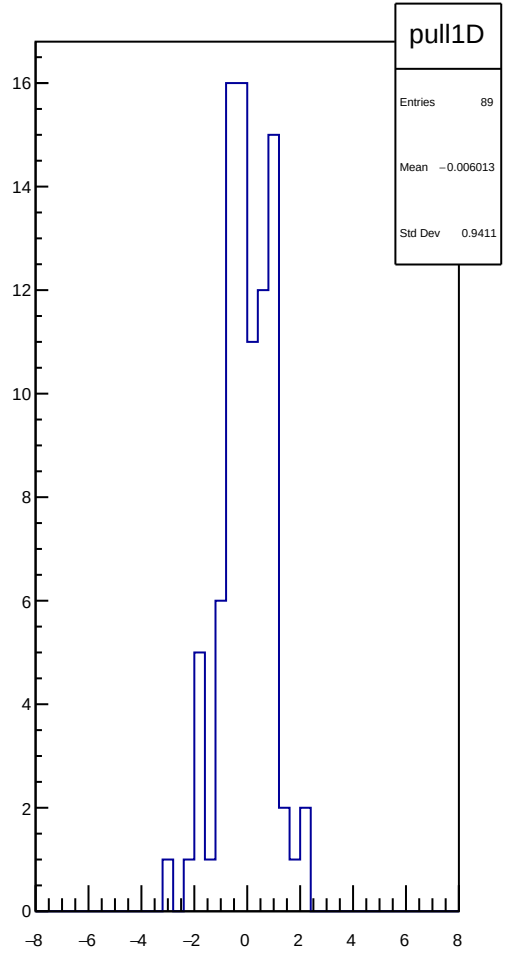

asym_us_dd_reg_correction_rms vs run
χ² / ndf 1619 / 88
p0 1158 ± 0.8767
1280
1260
1240
1220
1200
1180
1160
1140
1120
1100
1080

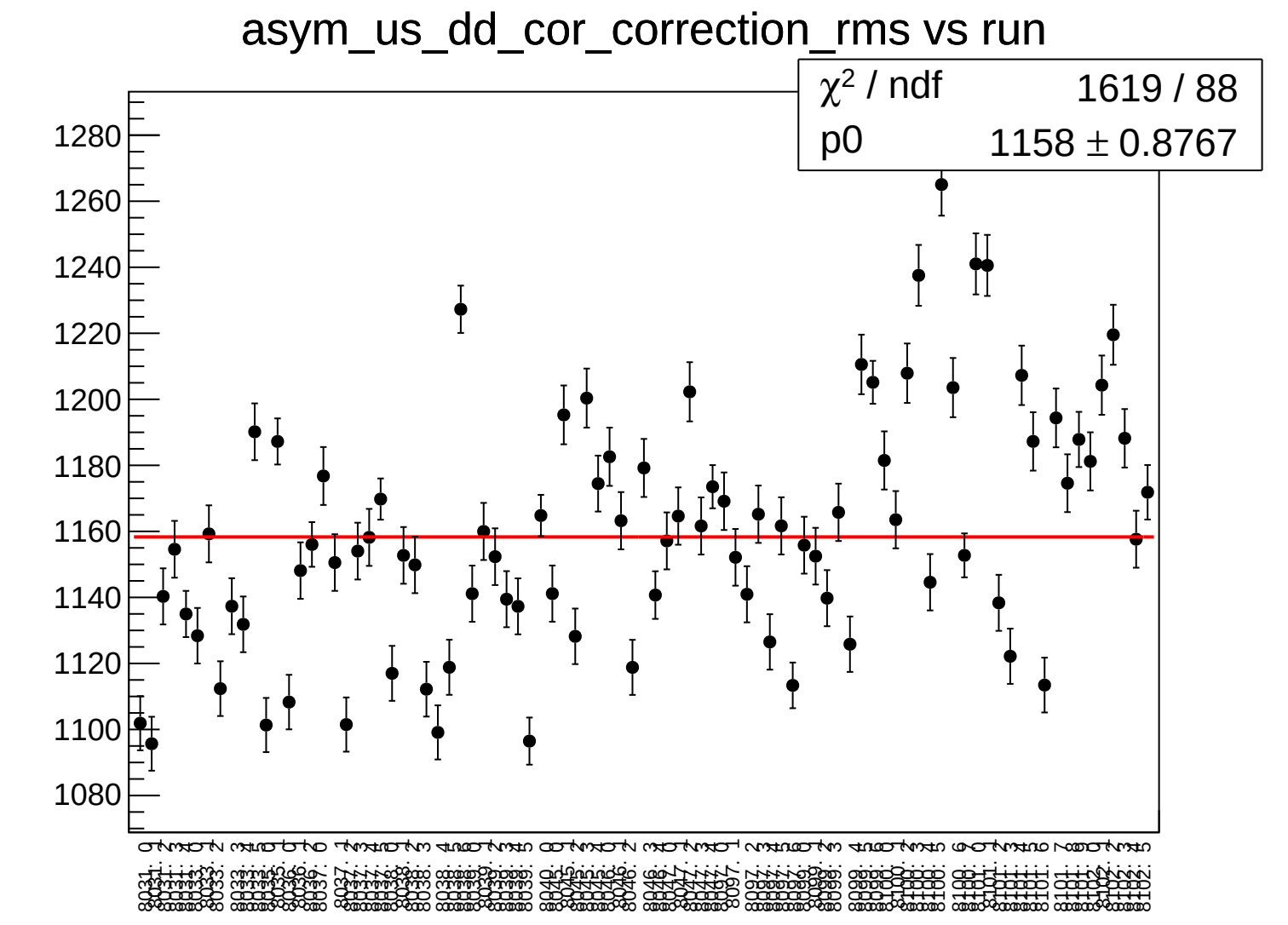

cor_asym_us_dd_mean vs run
χ² / ndf 76.19 / 88
p0 162.7 ± 813.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −681.8
Std Dev 0
2
1
0
−1
−2

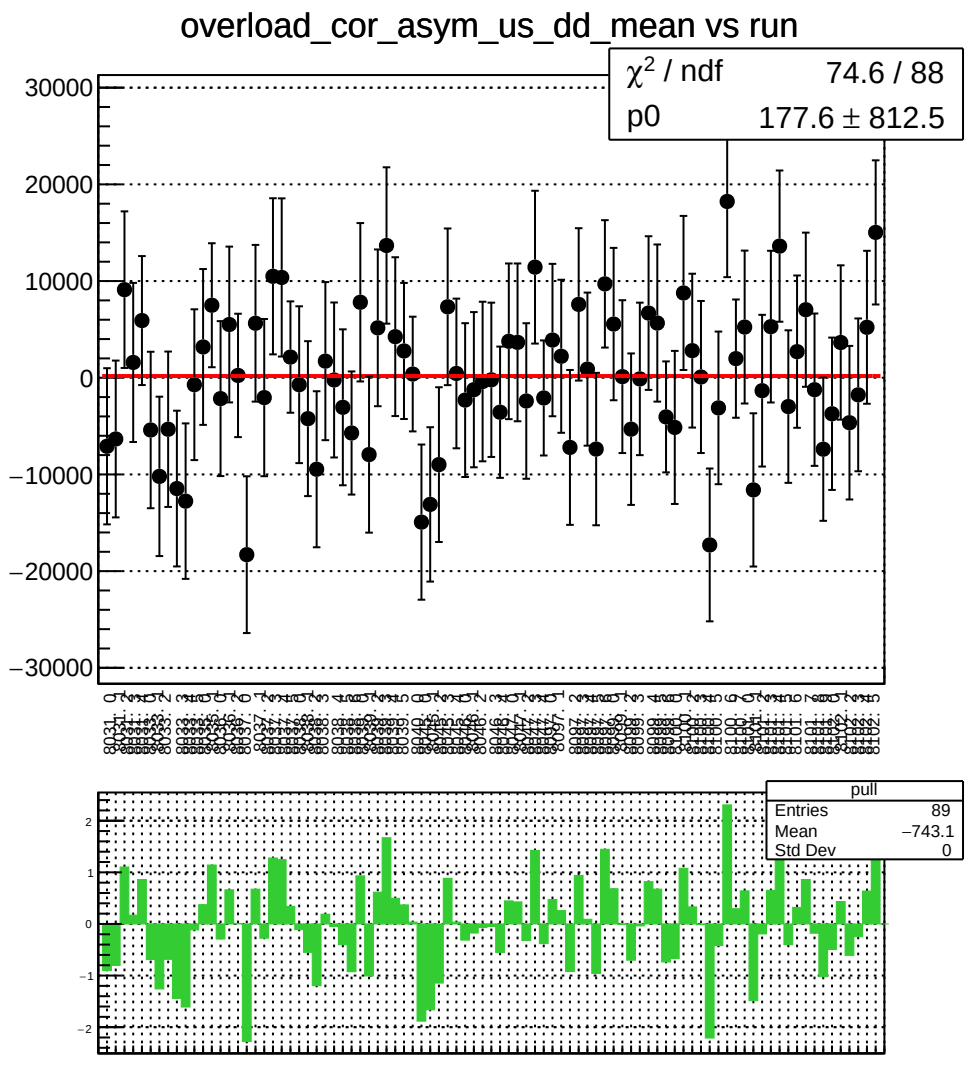

pull1D
Entries 89
Mean −0.00479
Std Dev 0.9252
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

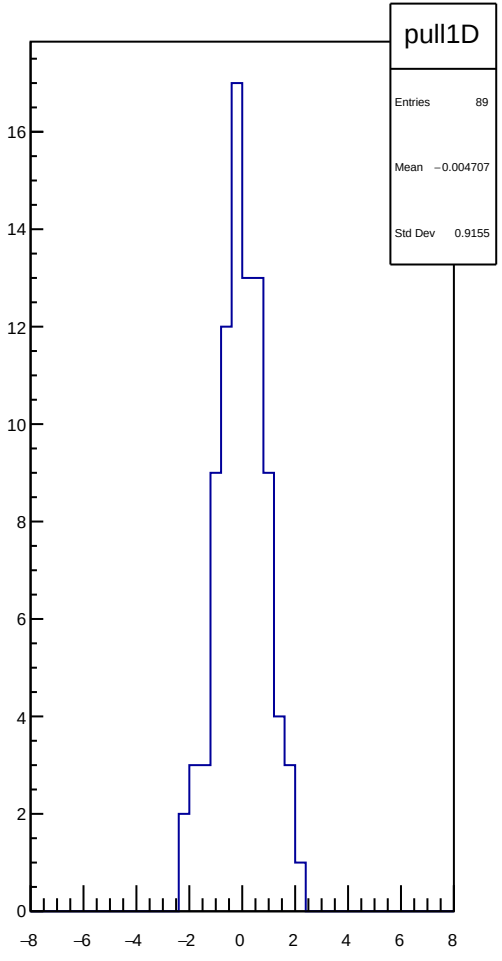

cor_asym_us_dd_rms vs run
$\chi^2$ / ndf 324 / 88
p0 760 ± 0.575
790
780
770
760
750
740

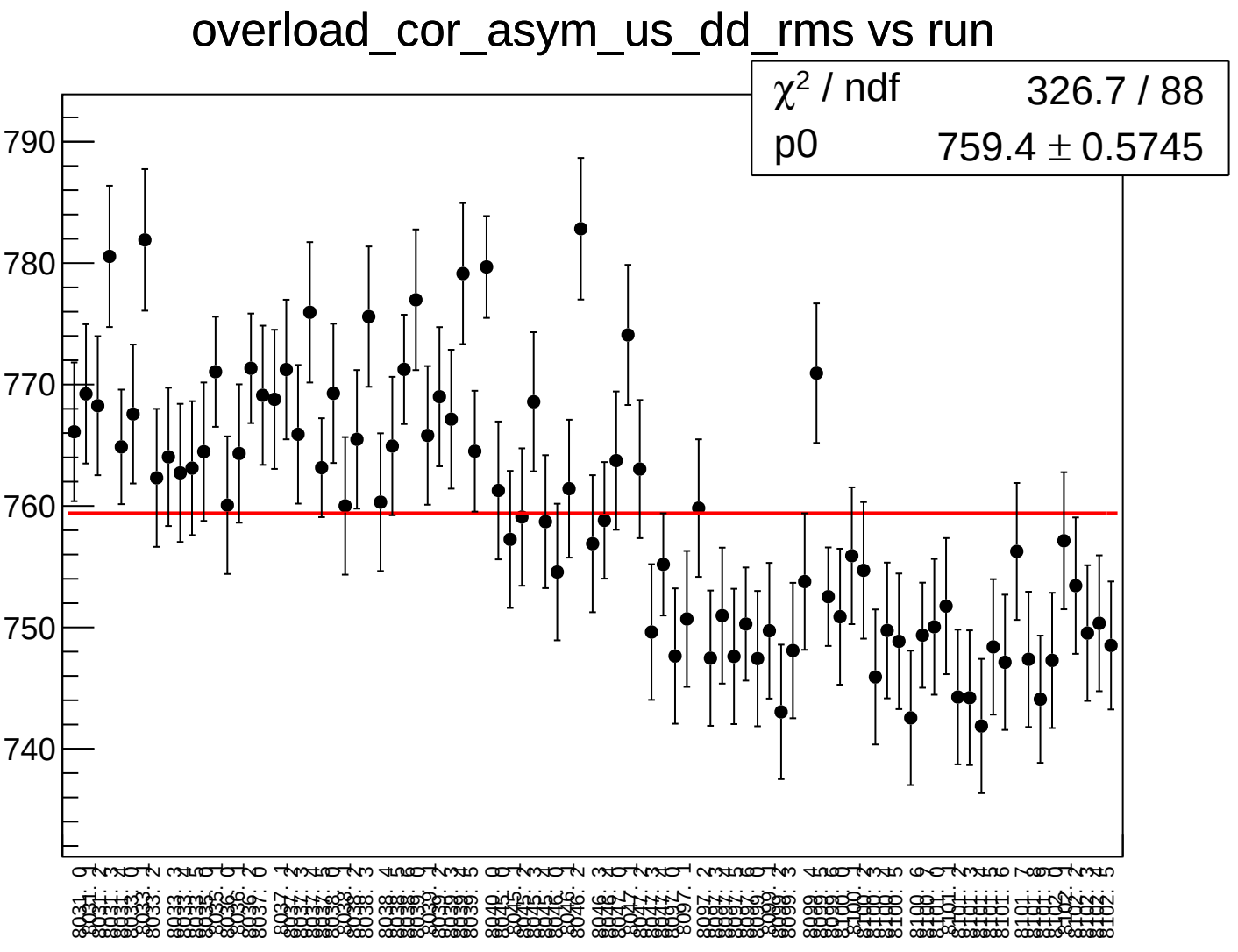

asym_us_dd_cor_correction_mean vs run
χ² / ndf 78.83 / 88
p0 −1281 ± 1240
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −244.6
Std Dev 0
2
1
0
−1
−2
−3

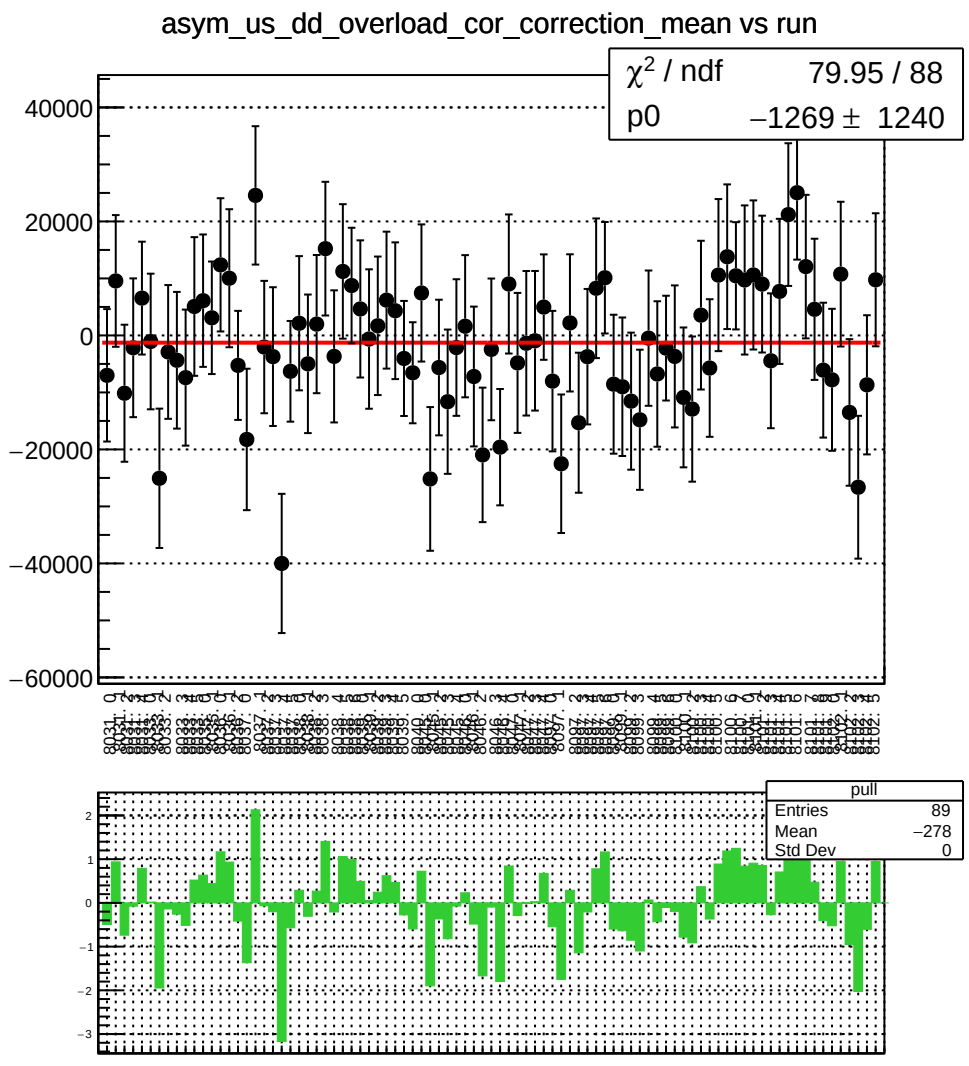

pull1D
Entries 89
Mean −0.006013
Std Dev 0.9411
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

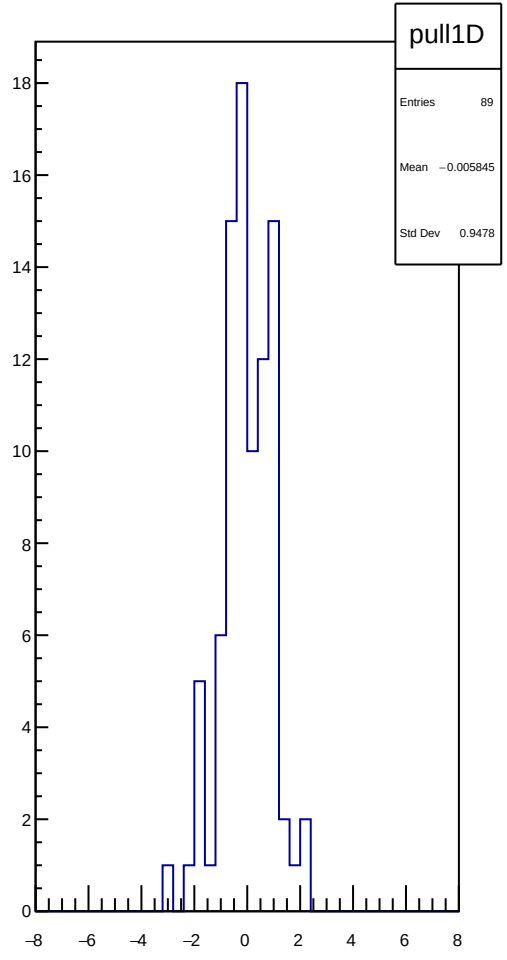

asym_us_dd_cor_correction_rms vs run
χ² / ndf 1619 / 88
p0 1158 ± 0.8767
1280
1260
1240
1220
1200
1180
1160
1140
1120
1100
1080

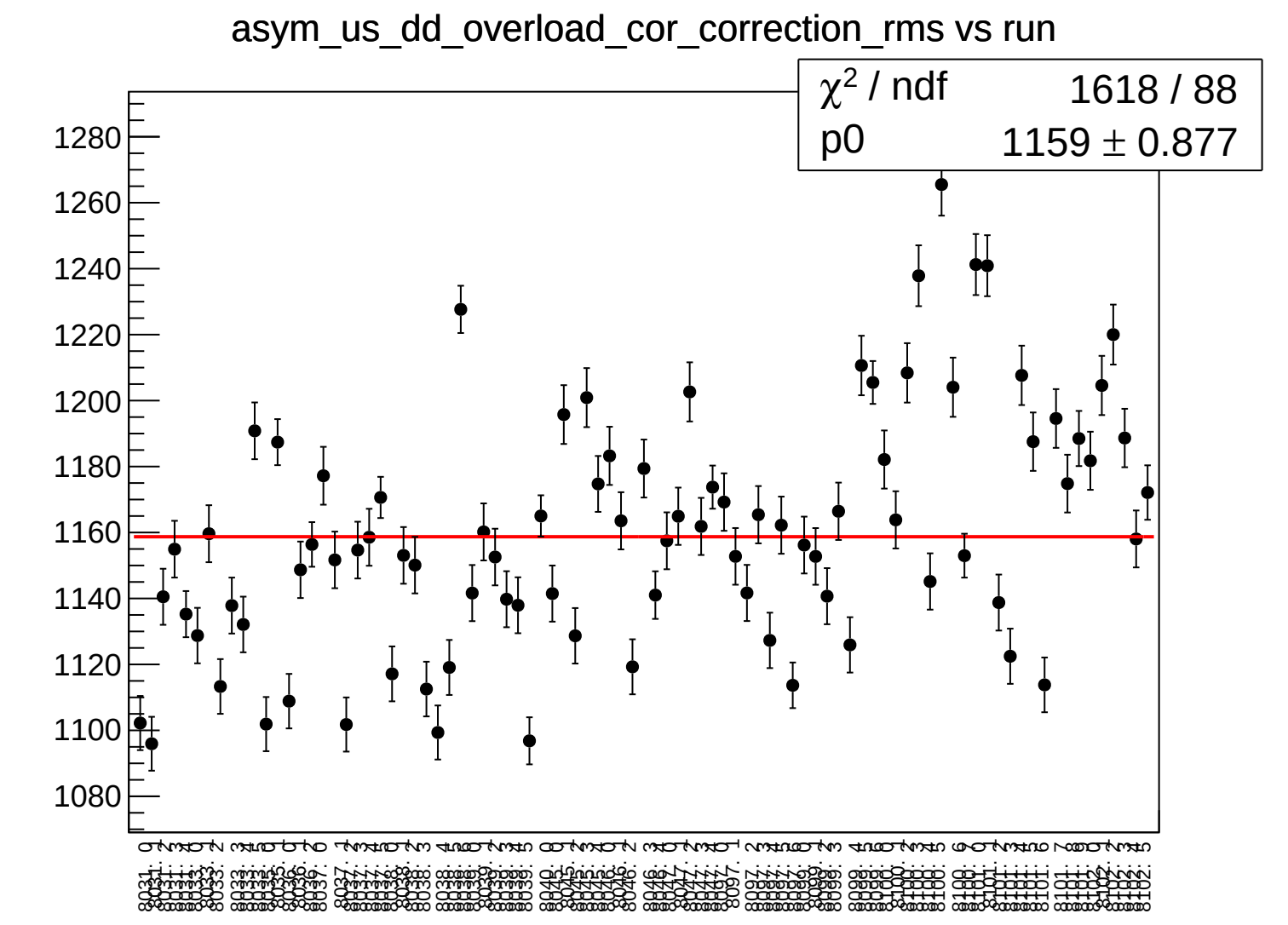

overload_cor_asym_us_dd_mean vs run
χ² / ndf 74.6 / 88
p0 177.6 ± 812.5
pull
Entries 89
Mean −743.1
Std Dev 0

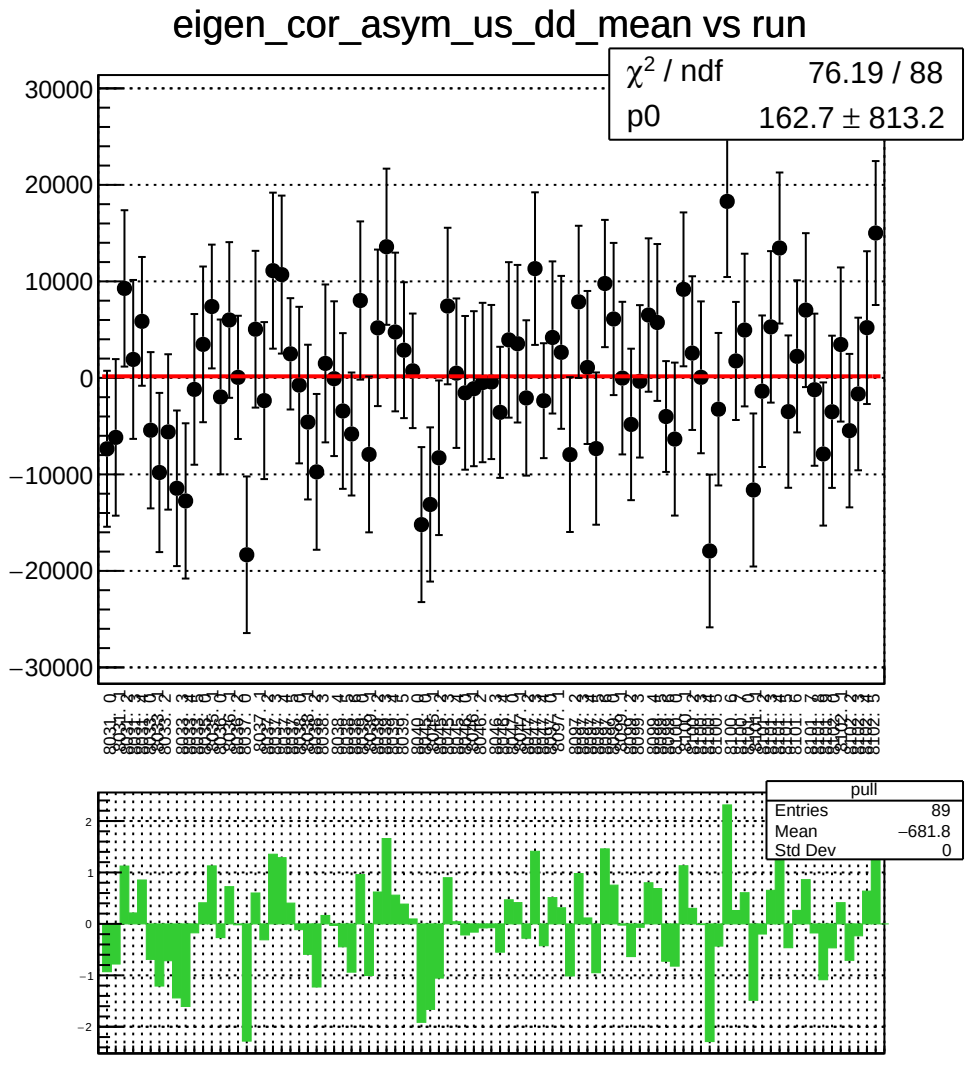

pull1D
Entries 89
Mean −0.004707
Std Dev 0.9155

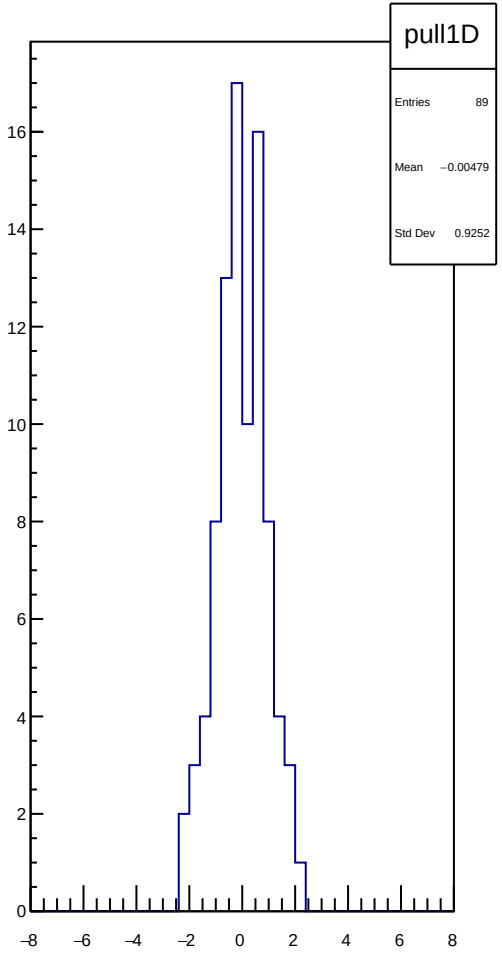

overload_cor_asym_us_dd_rms vs run
χ² / ndf 326.7 / 88
p0 759.4 ± 0.5745
790
780
770
760
750
740


asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 79.95 / 88
p0 −1269 ± 1240
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −278
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 89
Mean −0.005845
Std Dev 0.9478
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_overload_cor_correction_rms vs run
χ² / ndf 1618 / 88
p0 1159 ± 0.877
1280
1260
1240
1220
1200
1180
1160
1140
1120
1100
1080


eigen_cor_asym_us_dd_mean vs run
χ² / ndf 76.19 / 88
p0 162.7 ± 813.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −681.8
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 89
Mean −0.00479
Std Dev 0.9252
16
14
12
10
8
6
4
2
0
−8
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−4
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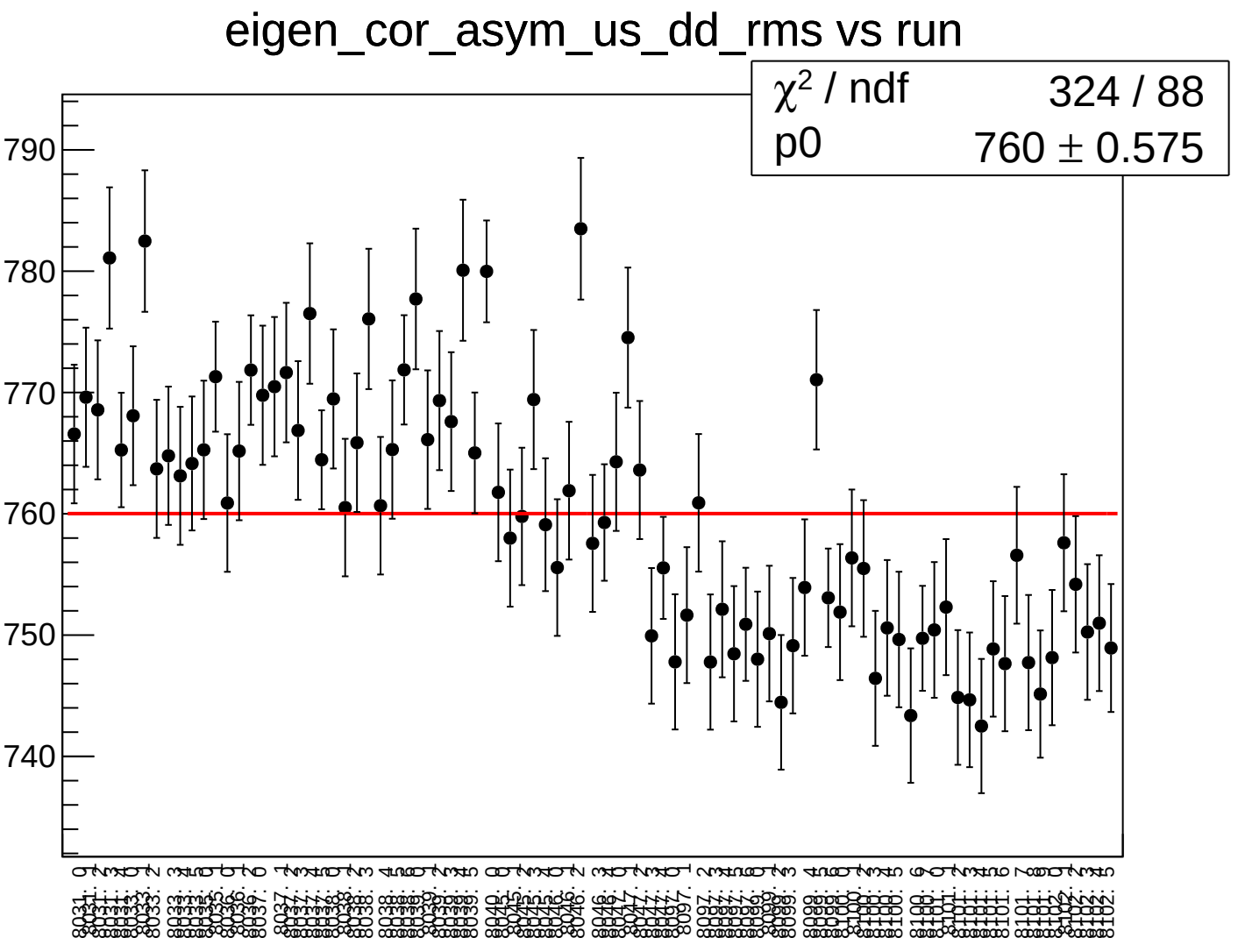
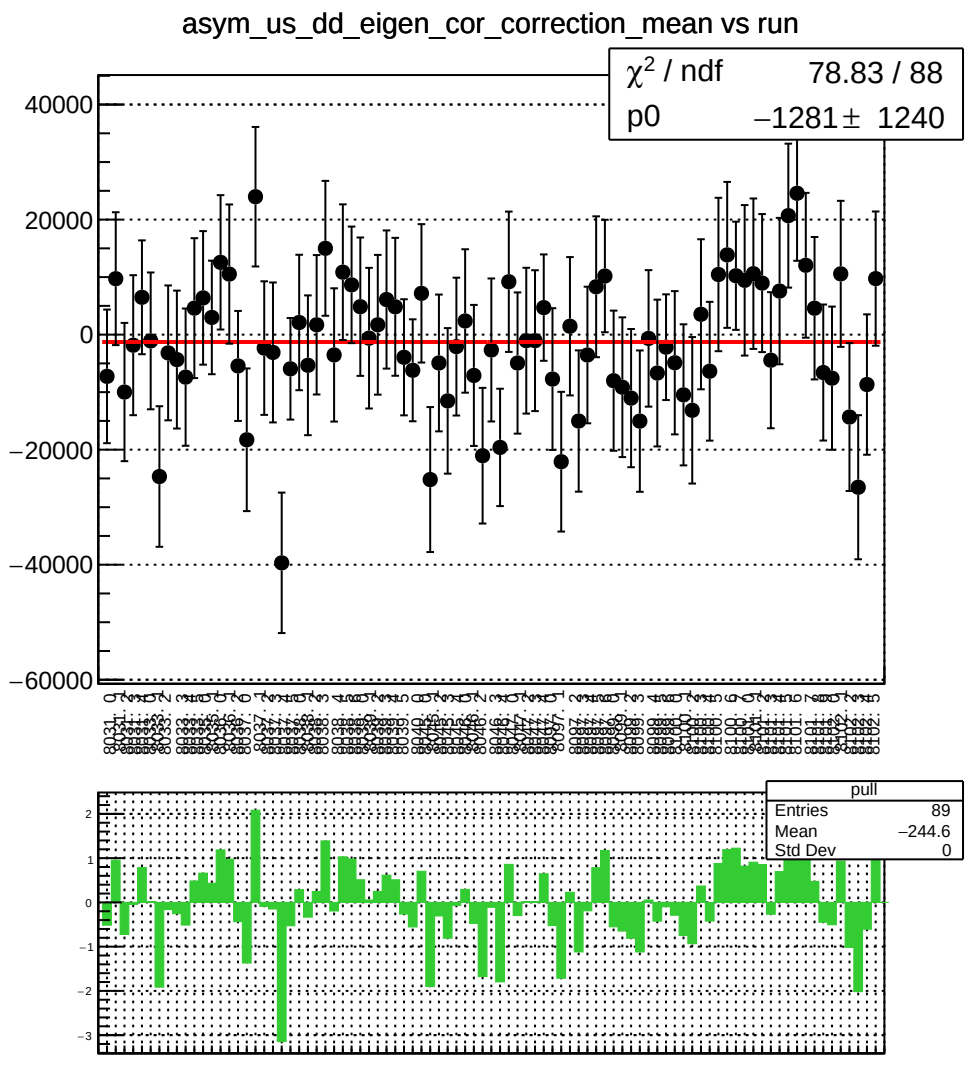
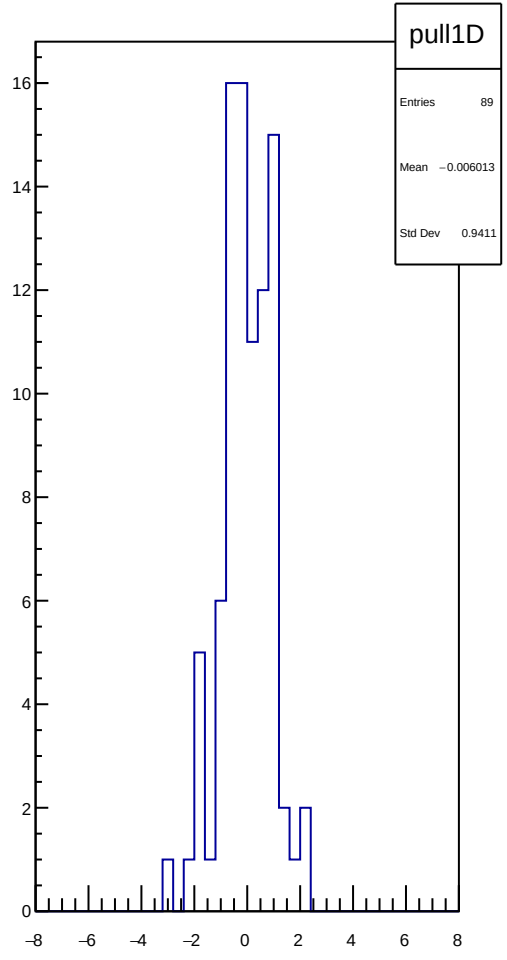
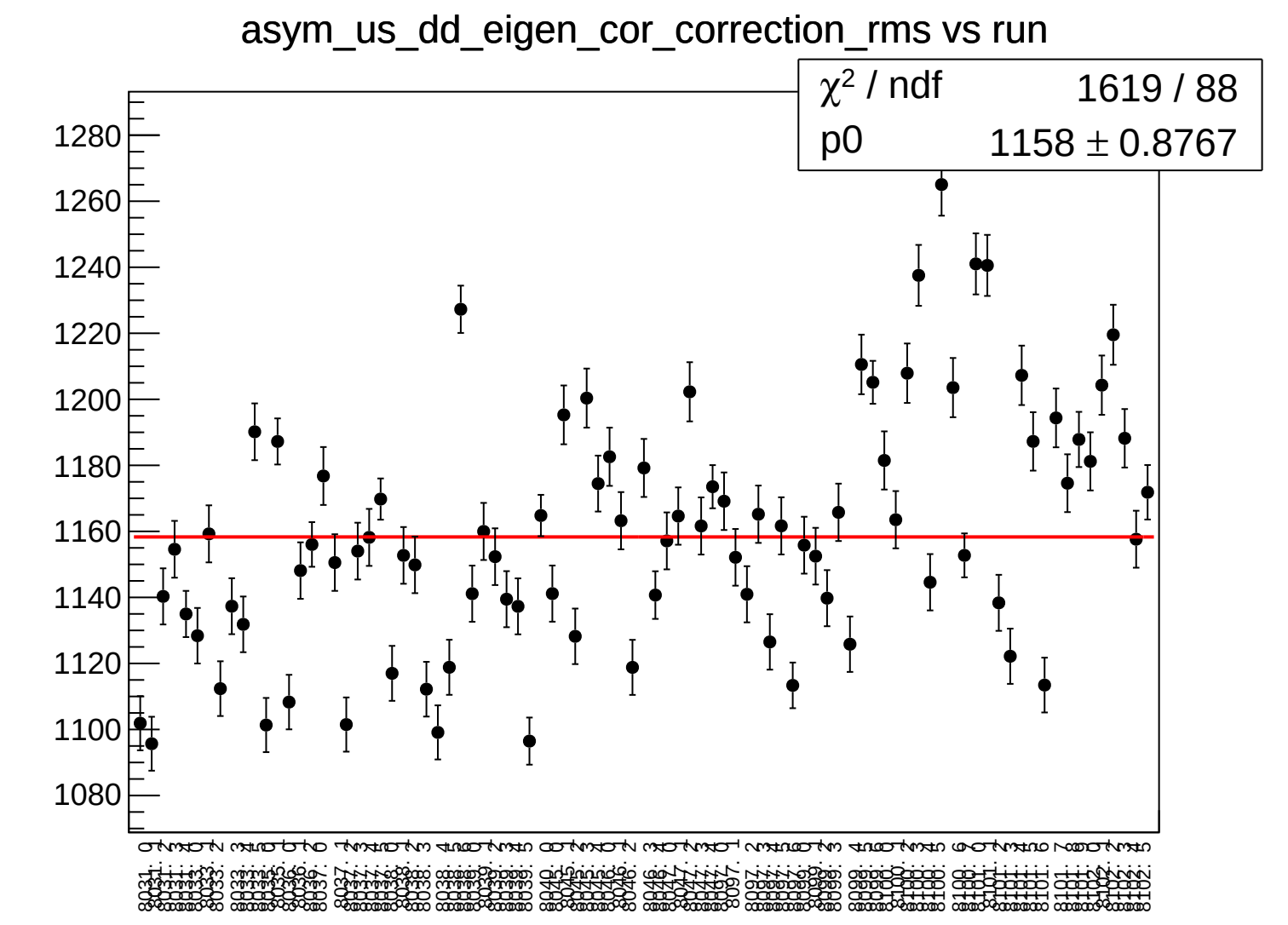
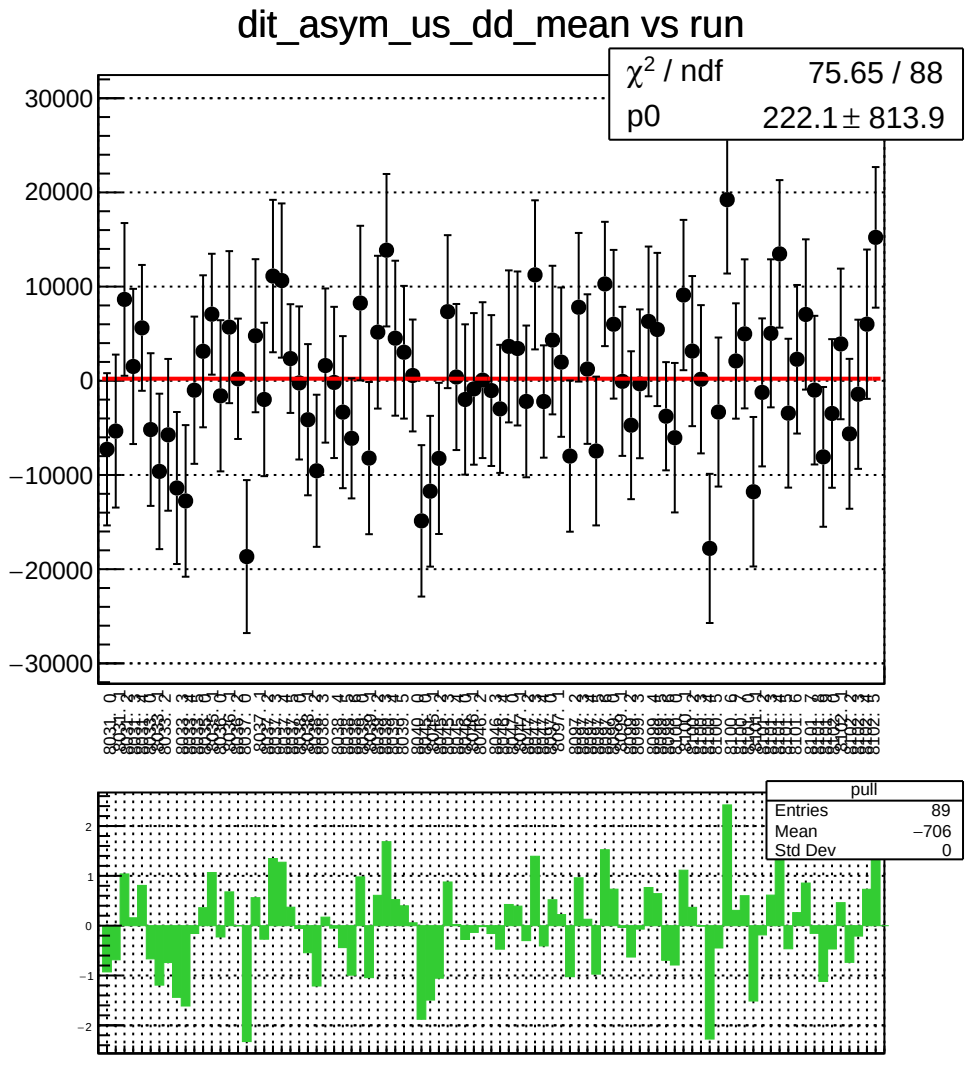
2
4
6
8

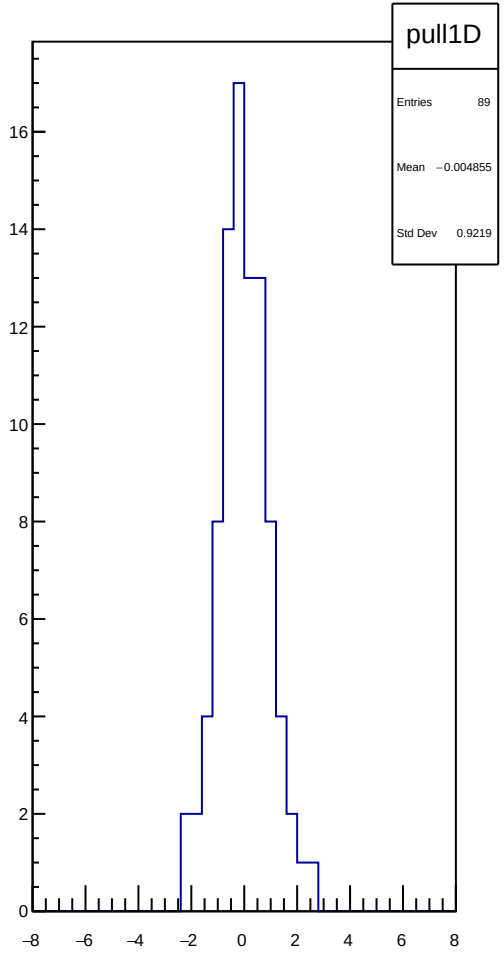

eigen_cor_asym_us_dd_rms vs run
χ² / ndf 324 / 88
p0 760 ± 0.575
790
780
770
760
750
740

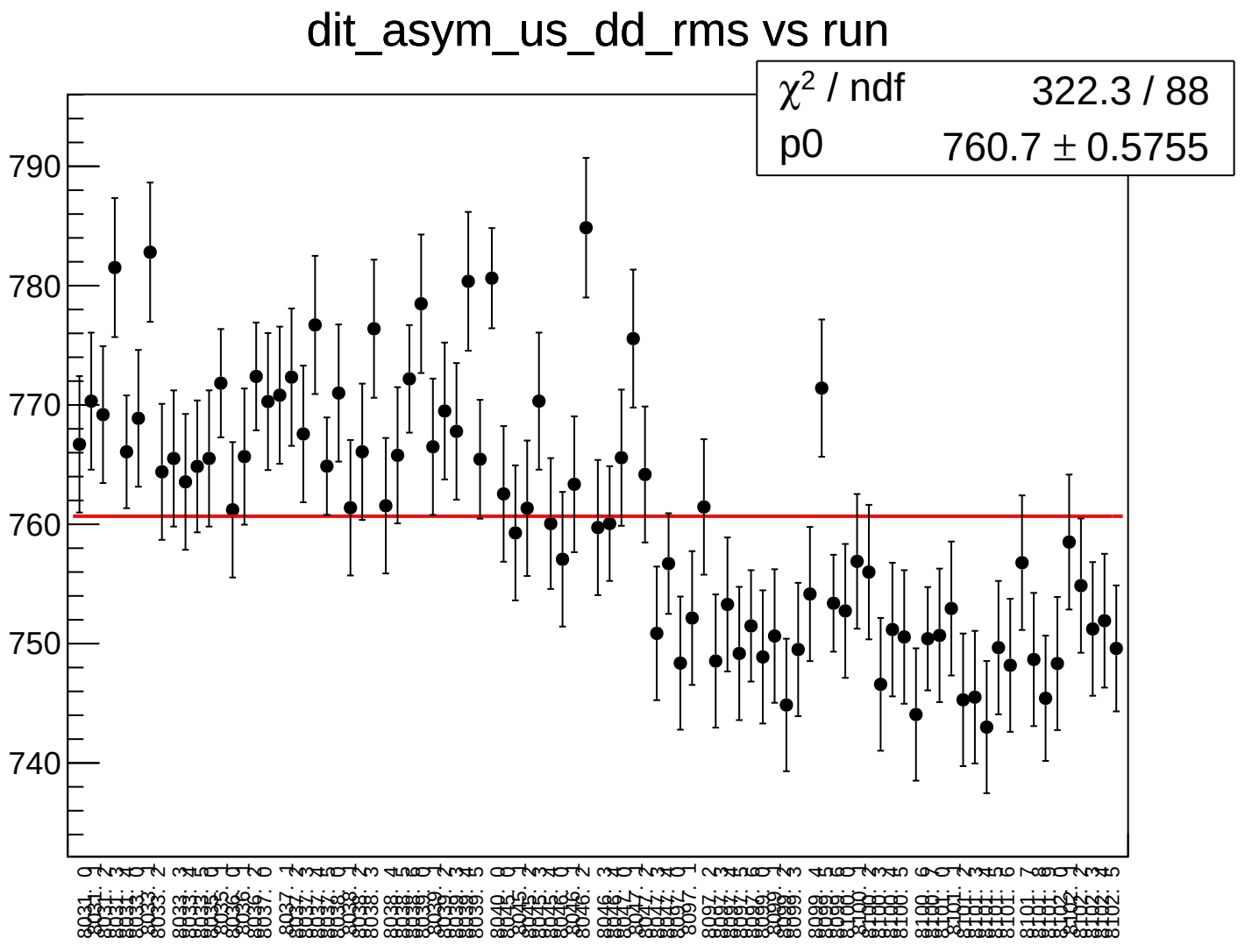

asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 78.83 / 88
p0 −1281 ± 1240
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −244.6
Std Dev 0
2
1
0
−1
−2
−3

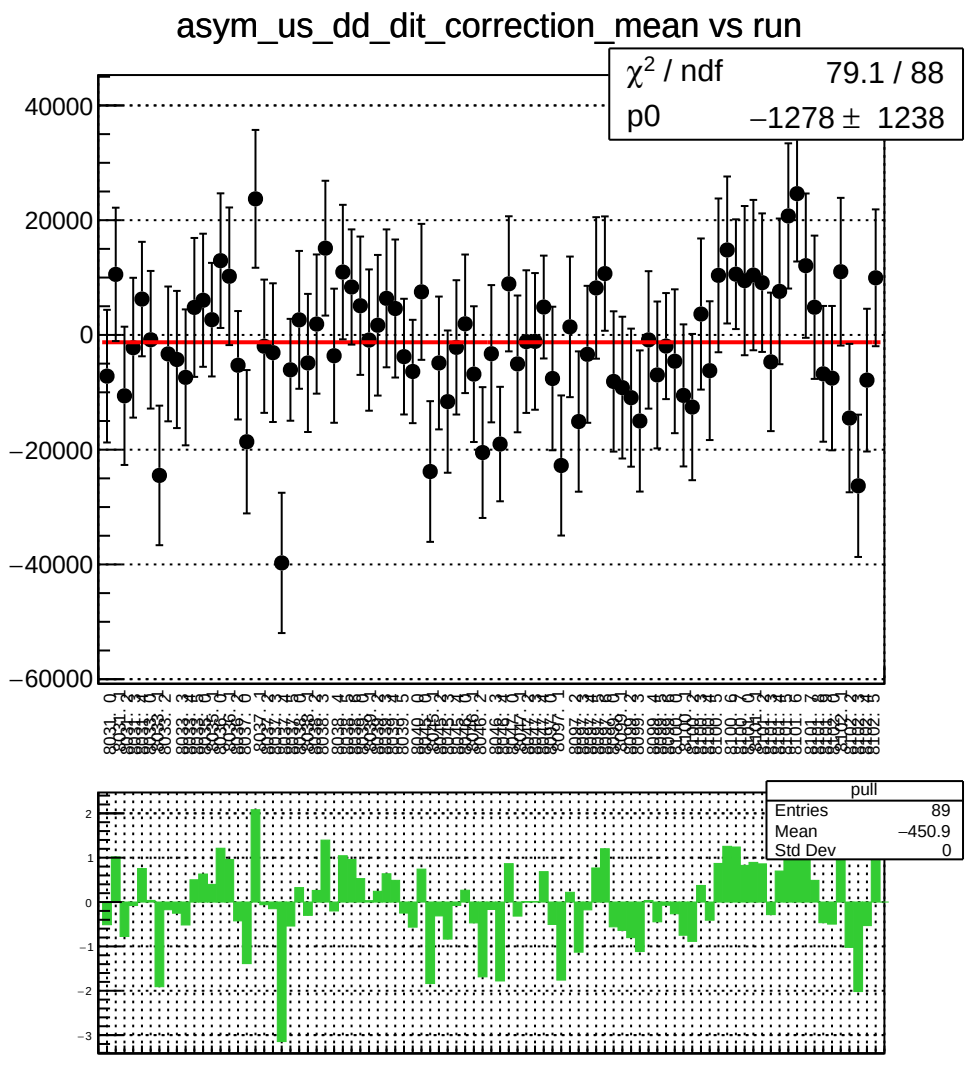

pull1D
Entries 89
Mean −0.006013
Std Dev 0.9411
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

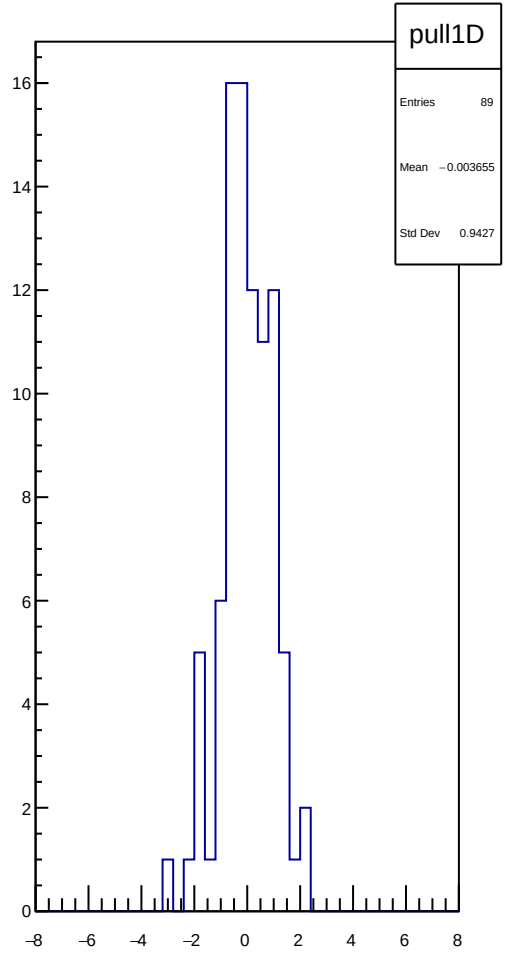

asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 1619 / 88
p0 1158 ± 0.8767
1280
1260
1240
1220
1200
1180
1160
1140
1120
1100
1080

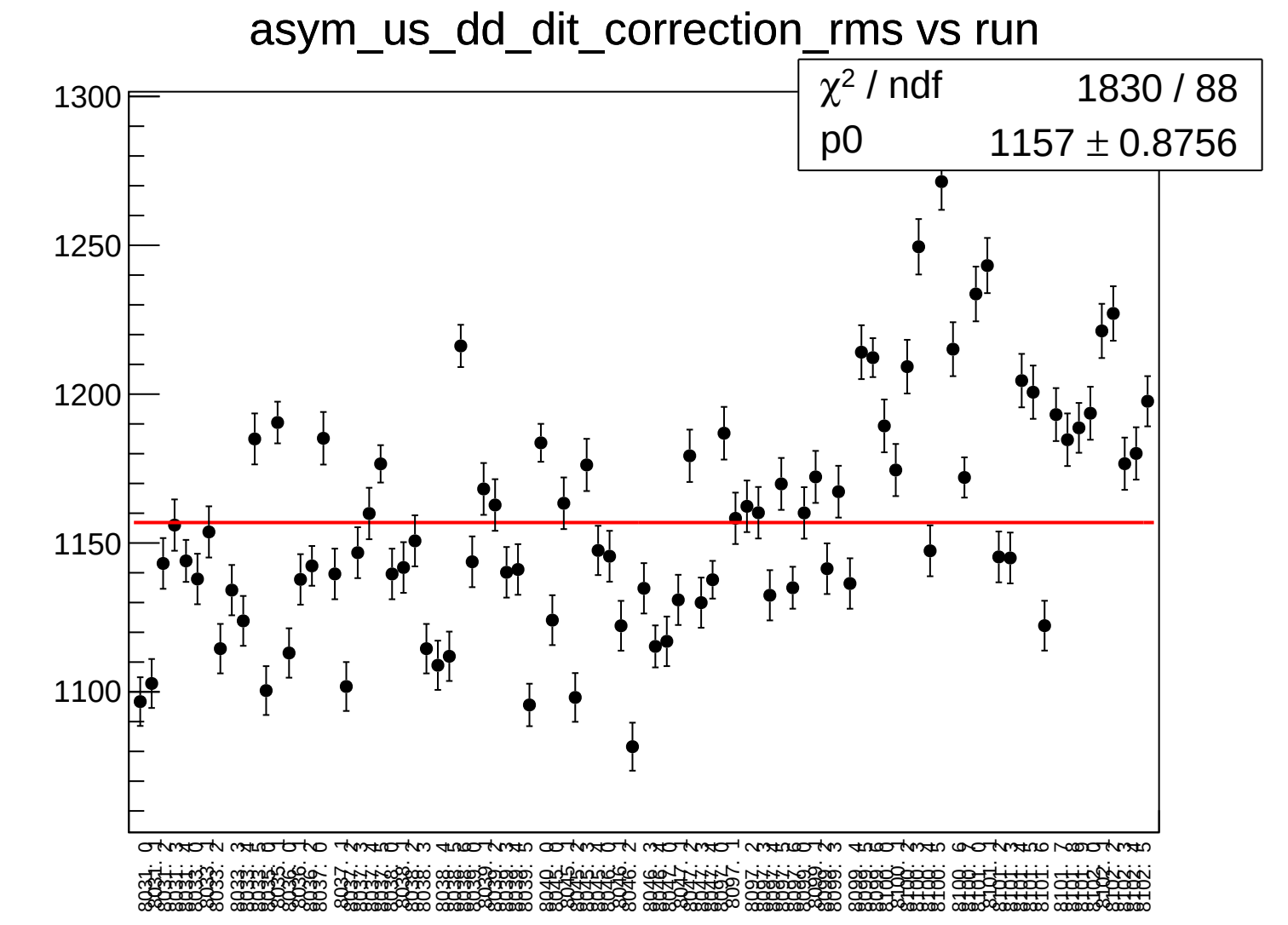

dit_asym_us_dd_mean vs run
χ² / ndf 75.65 / 88
p0 222.1 ± 813.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −706
Std Dev 0
2
1
0
−1
−2

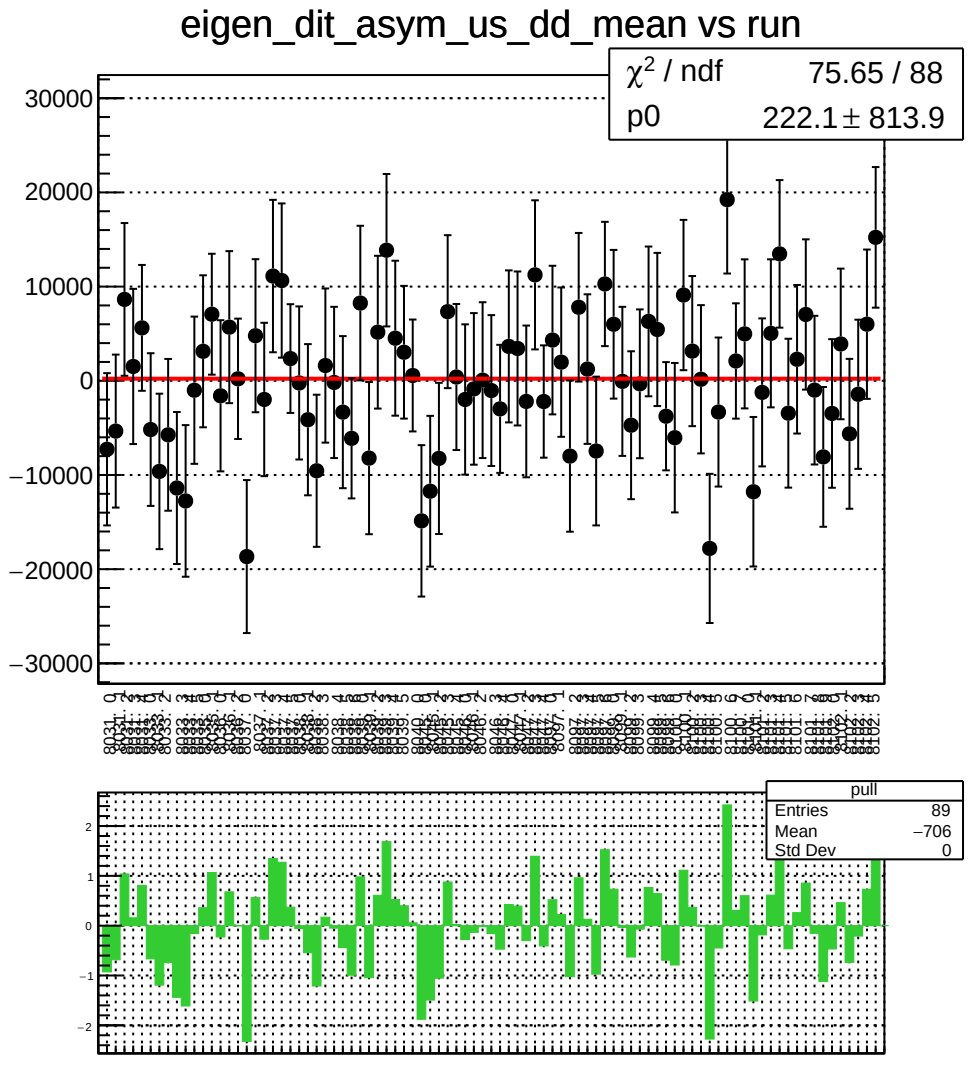

pull1D
Entries 89
Mean −0.004855
Std Dev 0.9219
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

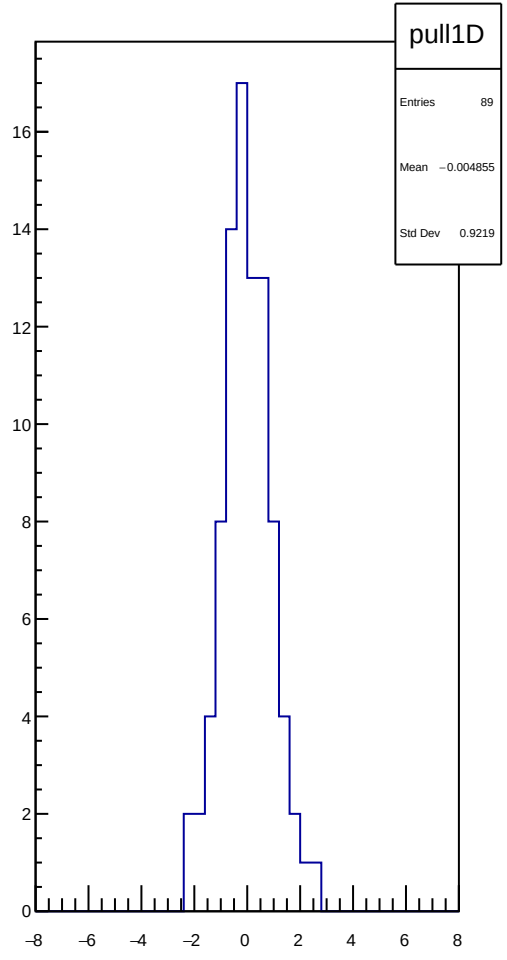

dit_asym_us_dd_rms vs run
χ² / ndf 322.3 / 88
p0 760.7 ± 0.5755
790
780
770
760
750
740

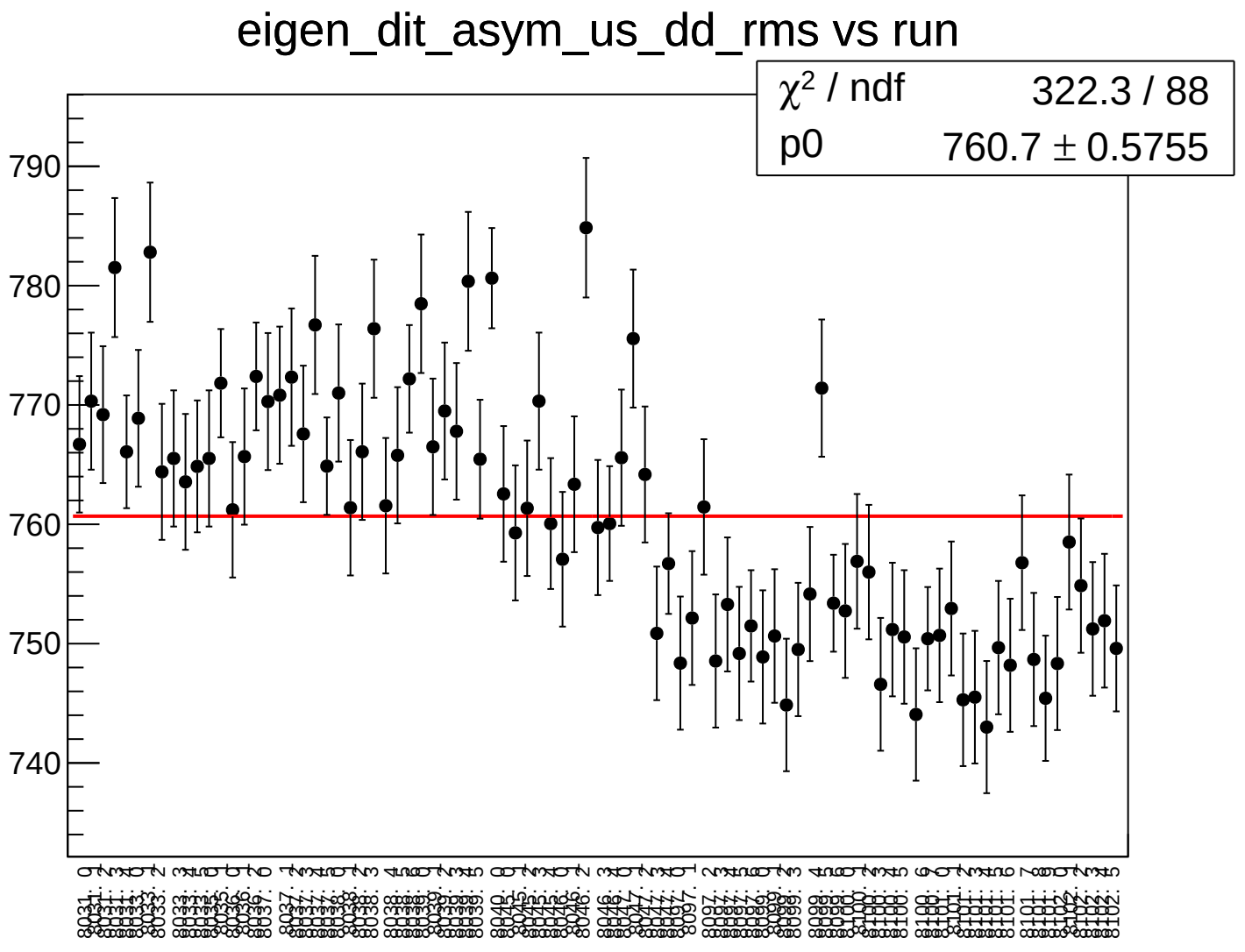

asym_us_dd_dit_correction_mean vs run
χ² / ndf 79.1 / 88
p0 −1278 ± 1238
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −450.9
Std Dev 0
2
1
0
−1
−2
−3

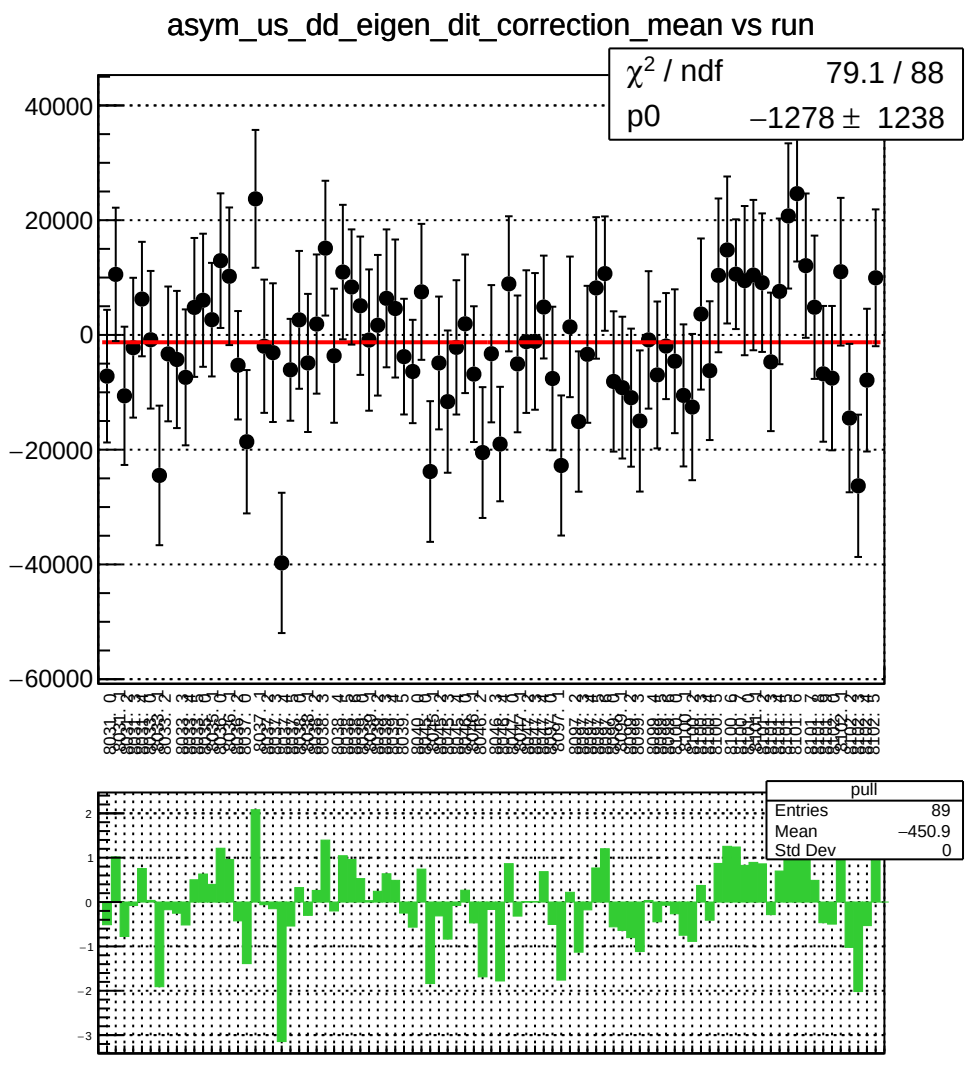

pull1D
Entries 89
Mean −0.003655
Std Dev 0.9427
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

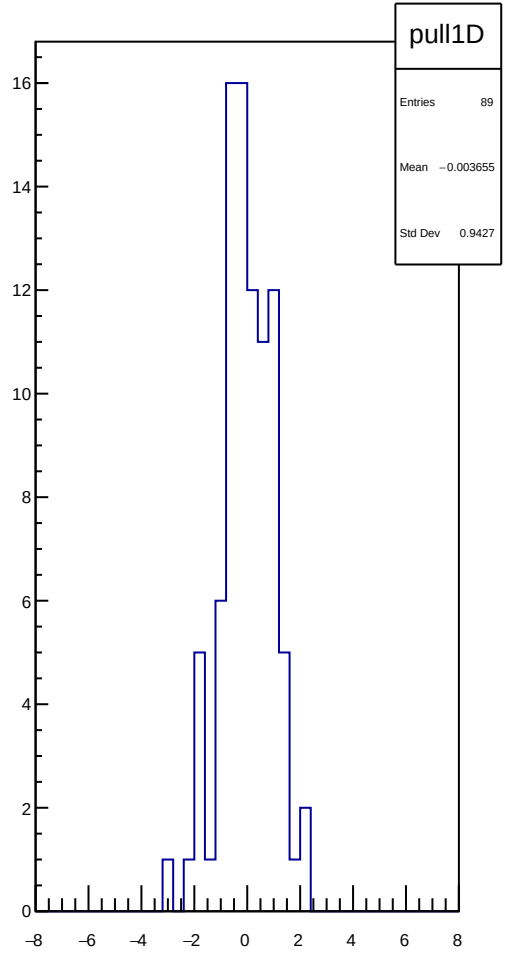

asym_us_dd_dit_correction_rms vs run
χ² / ndf 1830 / 88
p0 1157 ± 0.8756
1300
1250
1200
1150
1100

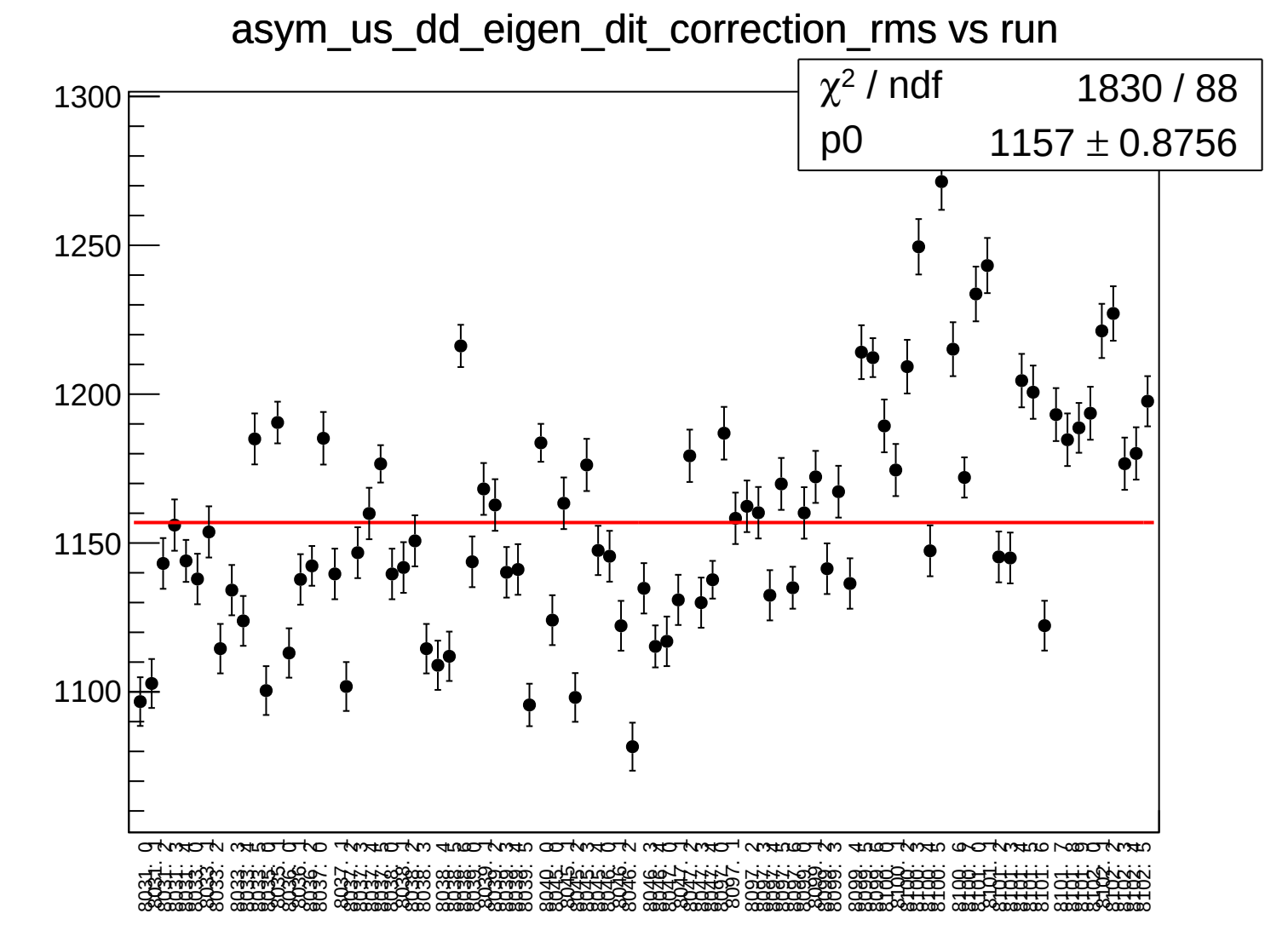

eigen_dit_asym_us_dd_mean vs run
χ² / ndf 75.65 / 88
p0 222.1 ± 813.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −706
Std Dev 0
2
1
0
−1
−2

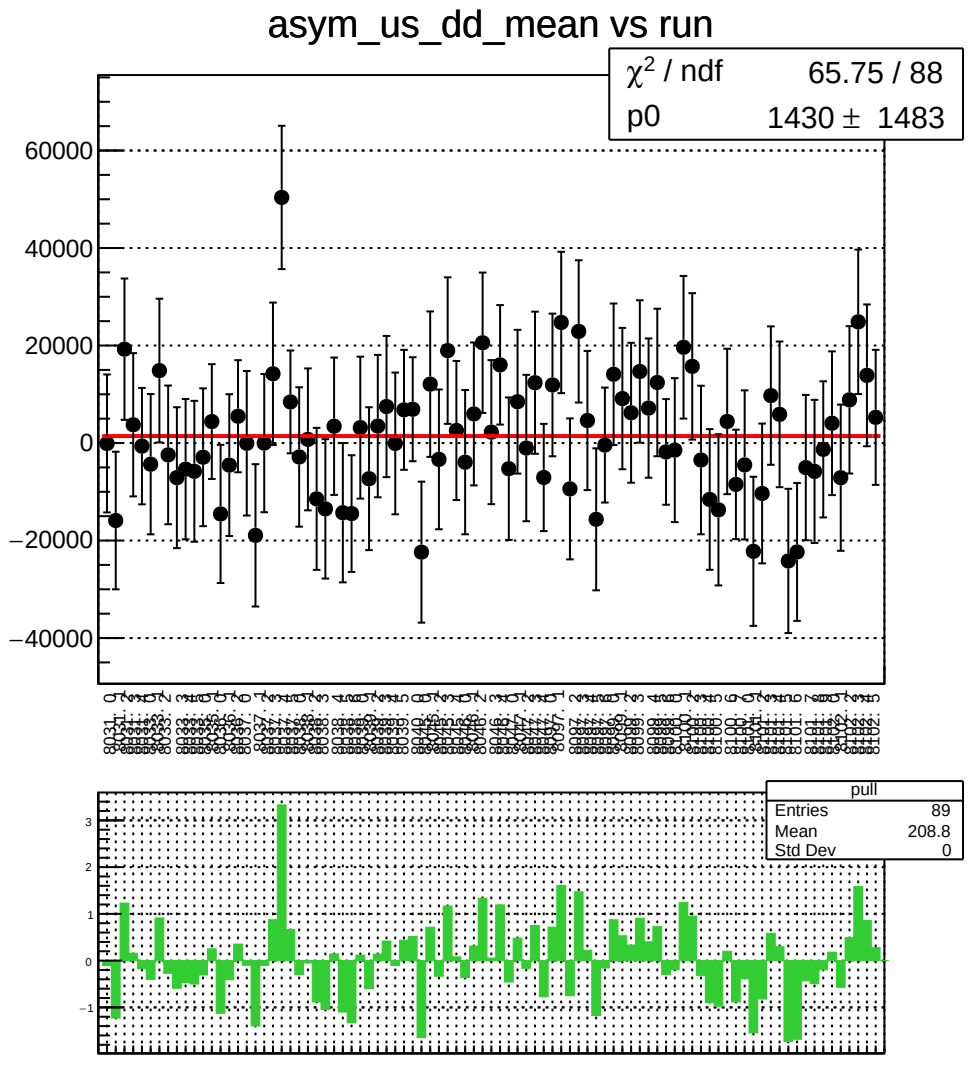

pull1D
Entries 89
Mean −0.004855
Std Dev 0.9219
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

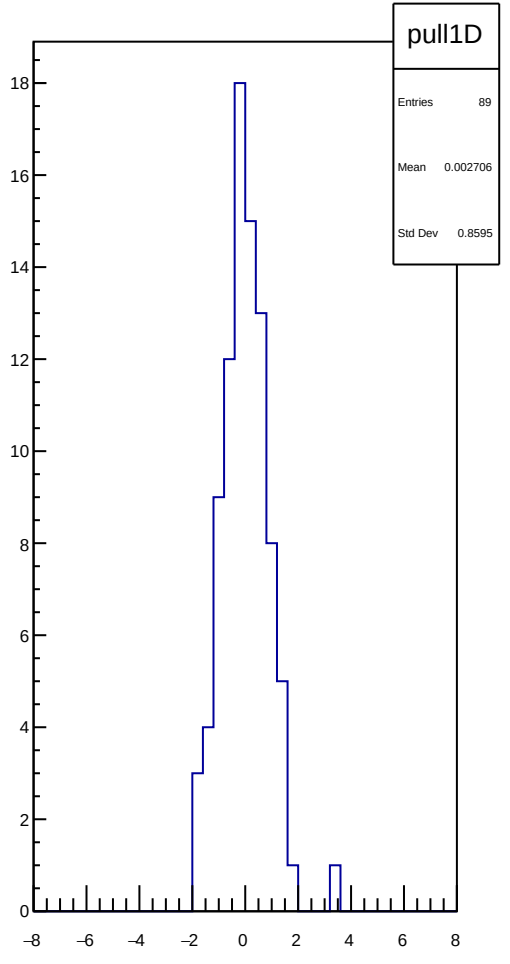

eigen_dit_asym_us_dd_rms vs run
χ² / ndf 322.3 / 88
p0 760.7 ± 0.5755
790
780
770
760
750
740

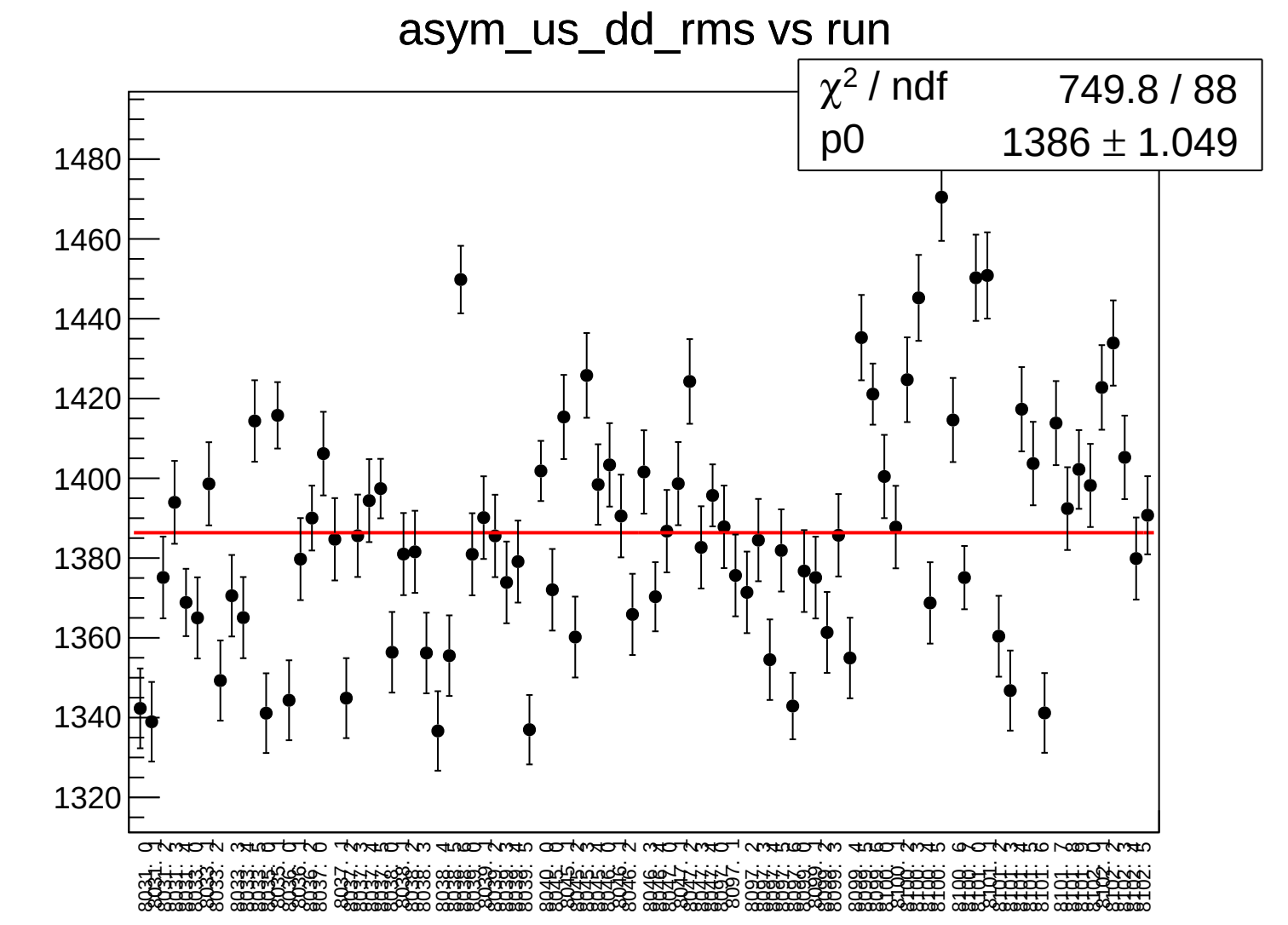

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 79.1 / 88
p0 −1278 ± 1238
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −450.9
Std Dev 0
2
1
0
−1
−2
−3

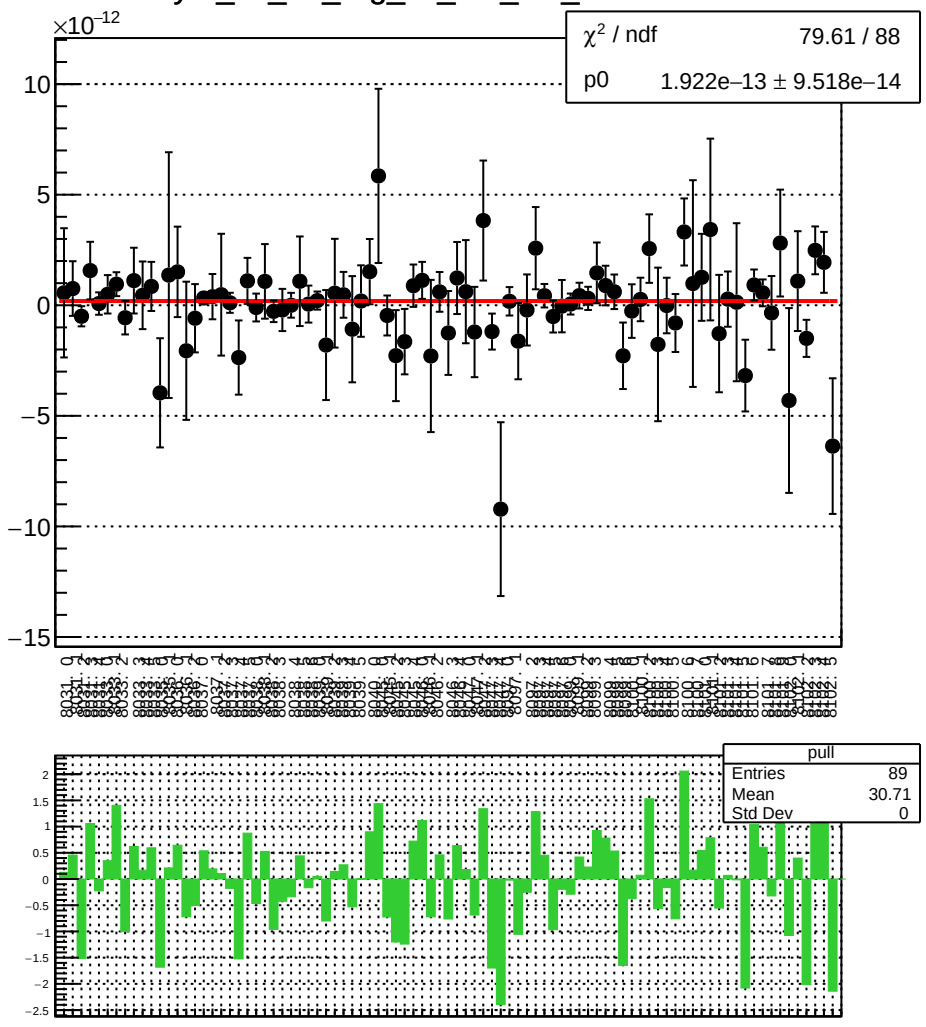

pull1D
Entries 89
Mean −0.003655
Std Dev 0.9427
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

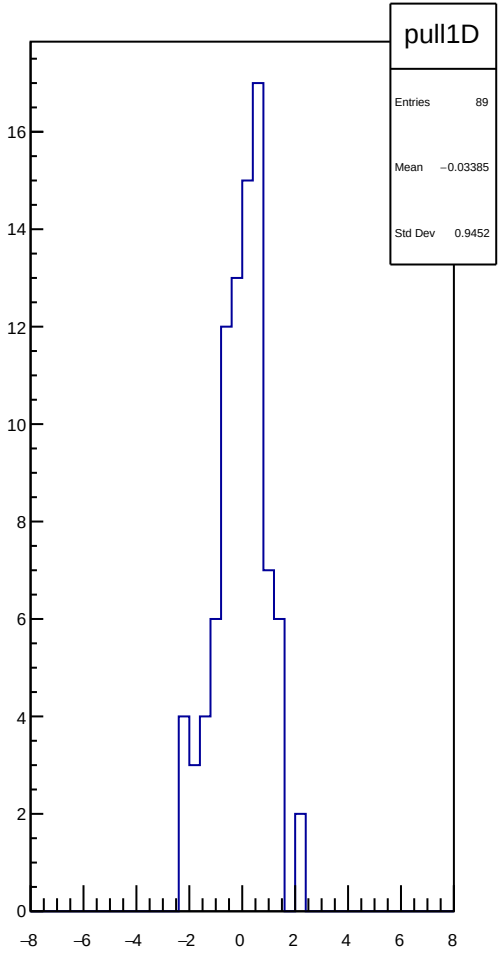

asym_us_dd_eigen_dit_correction_rms vs run
χ² / ndf 1830 / 88
p0 1157 ± 0.8756
1300
1250
1200
1150
1100

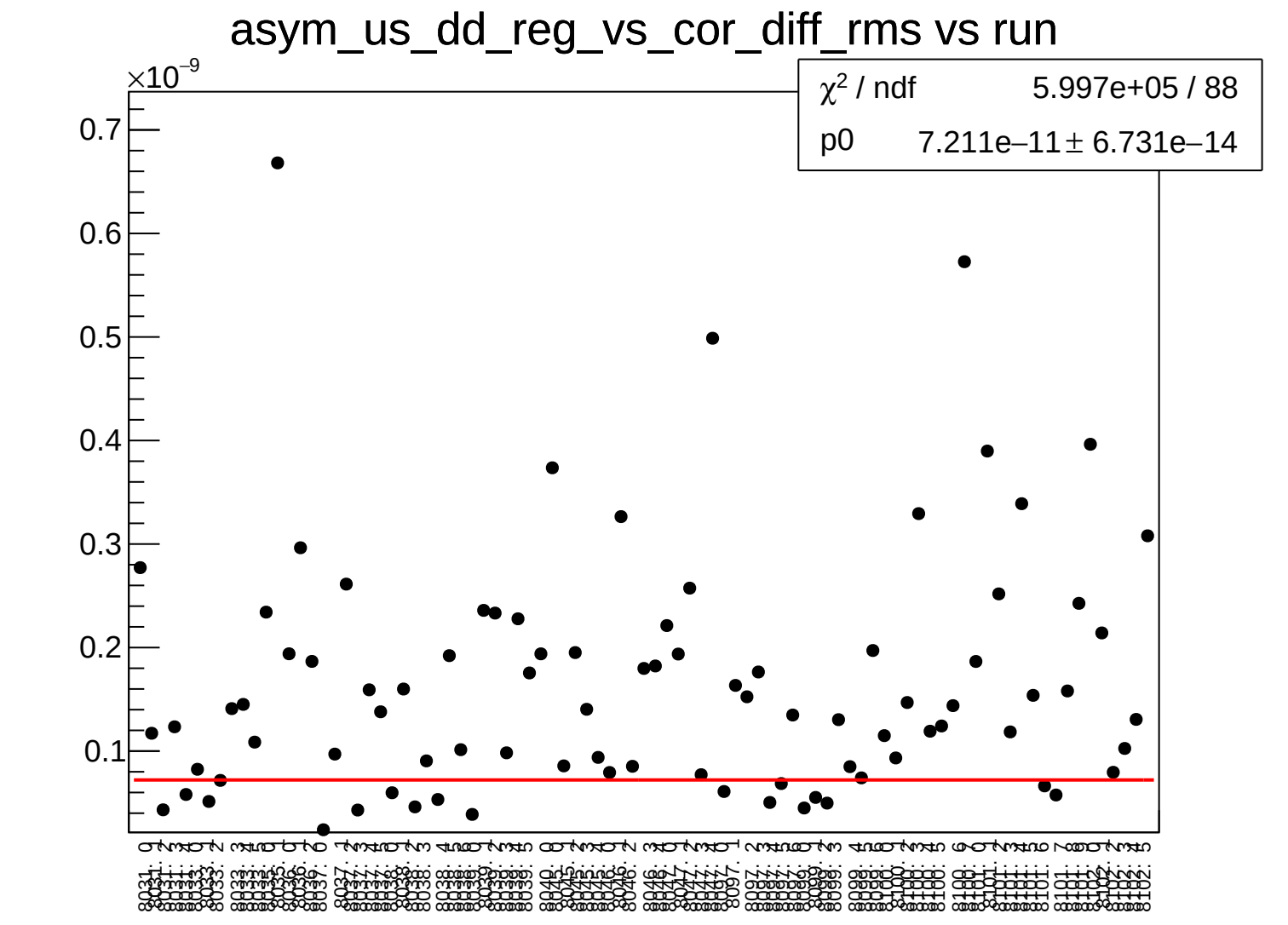

asym_us_dd_mean vs run
χ² / ndf 65.75 / 88
p0 1430 ± 1483
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 208.8
Std Dev 0
3
2
1
0
−1

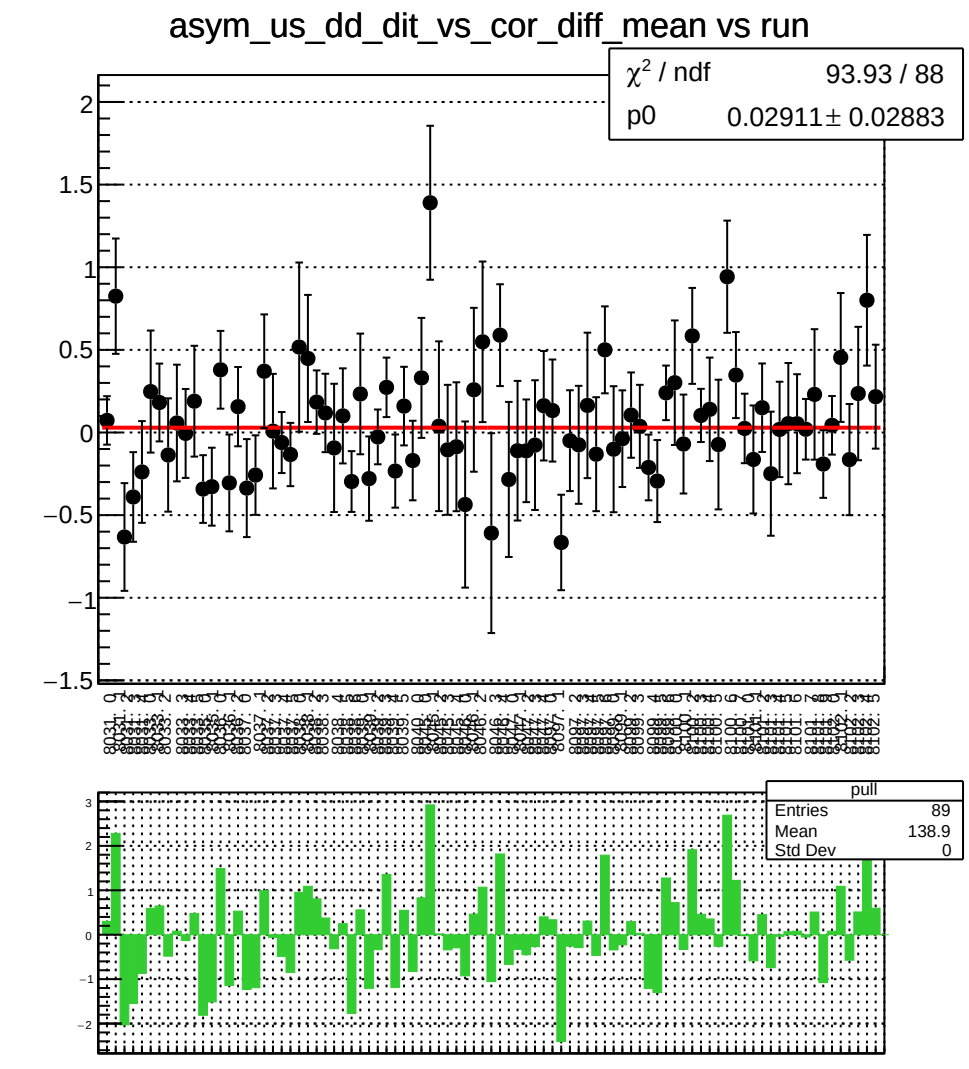

pull1D
Entries 89
Mean 0.002706
Std Dev 0.8595
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

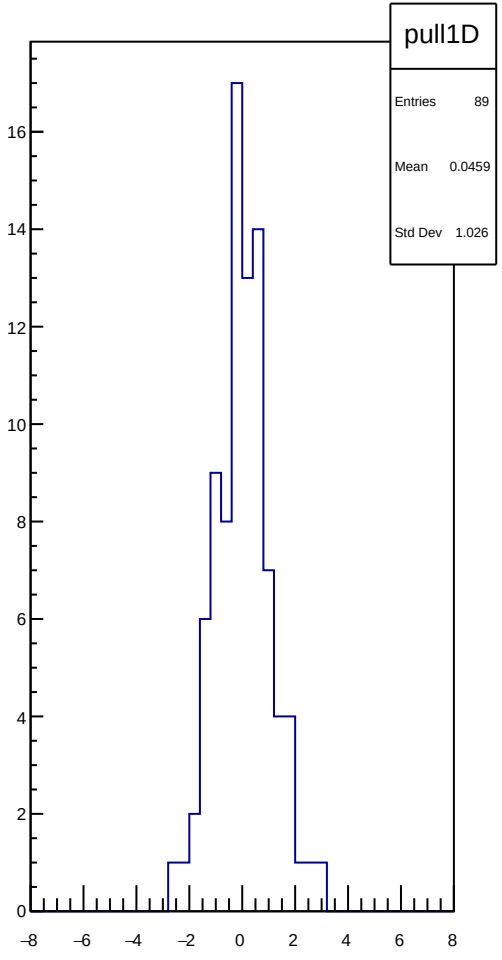

asym_us_dd_rms vs run
χ² / ndf 749.8 / 88
p0 1386 ± 1.049
1480
1460
1440
1420
1400
1380
1360
1340
1320

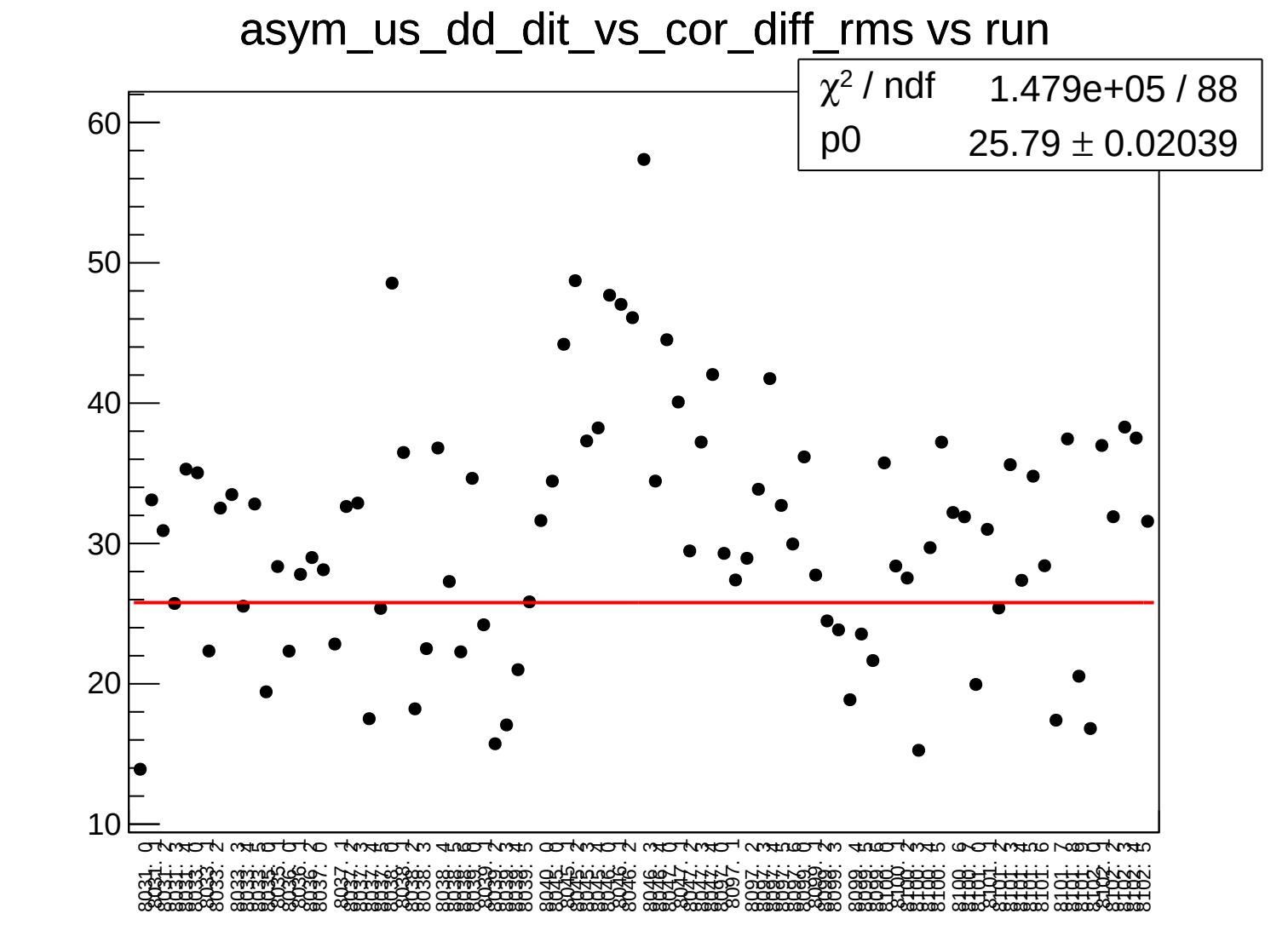

asym_us_dd_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.61 / 88
p0 1.922e−13 ± 9.518e−14
pull
Entries 89
Mean 30.71
Std Dev 0

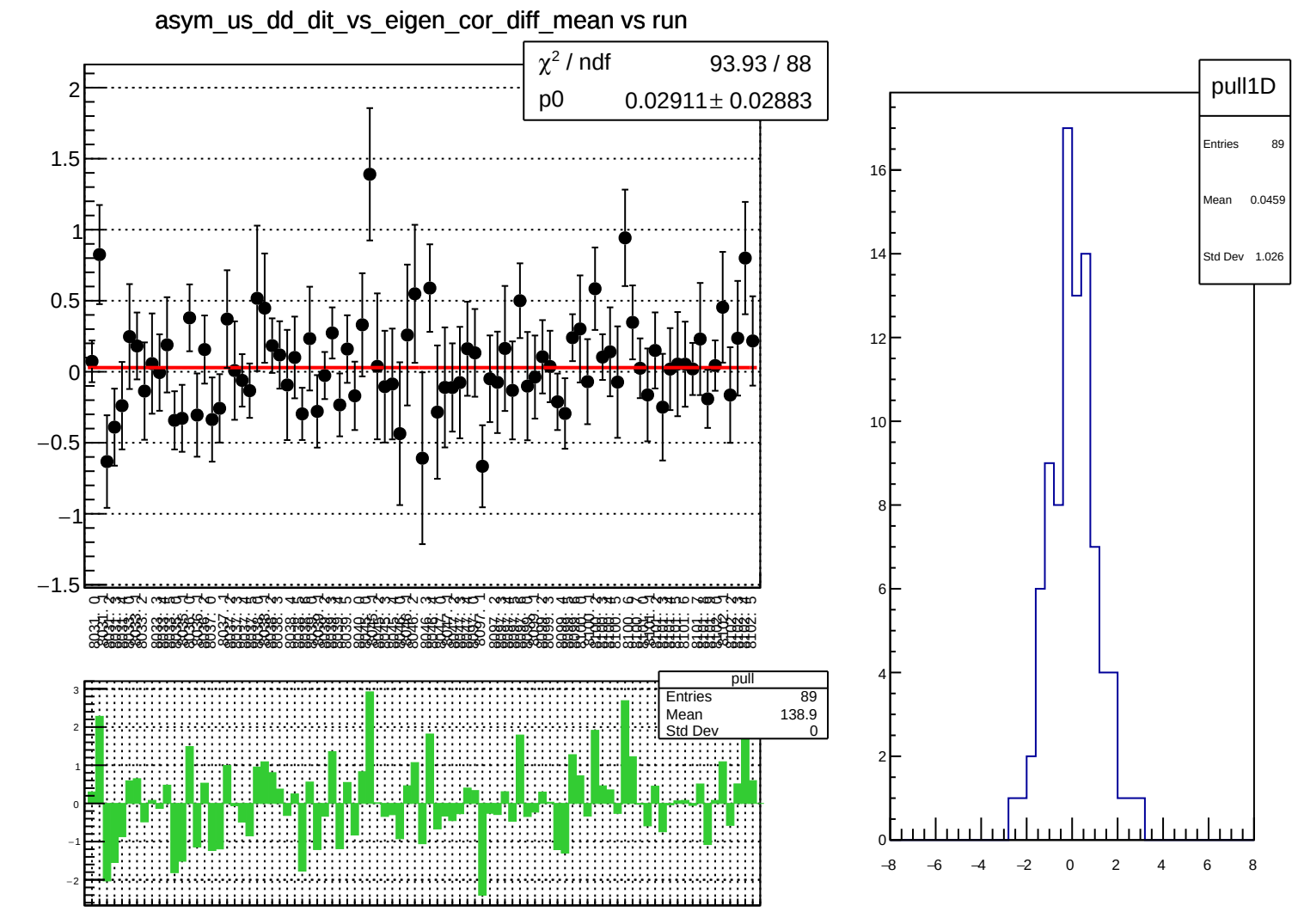

pull1D
Entries 89
Mean −0.03385
Std Dev 0.9452

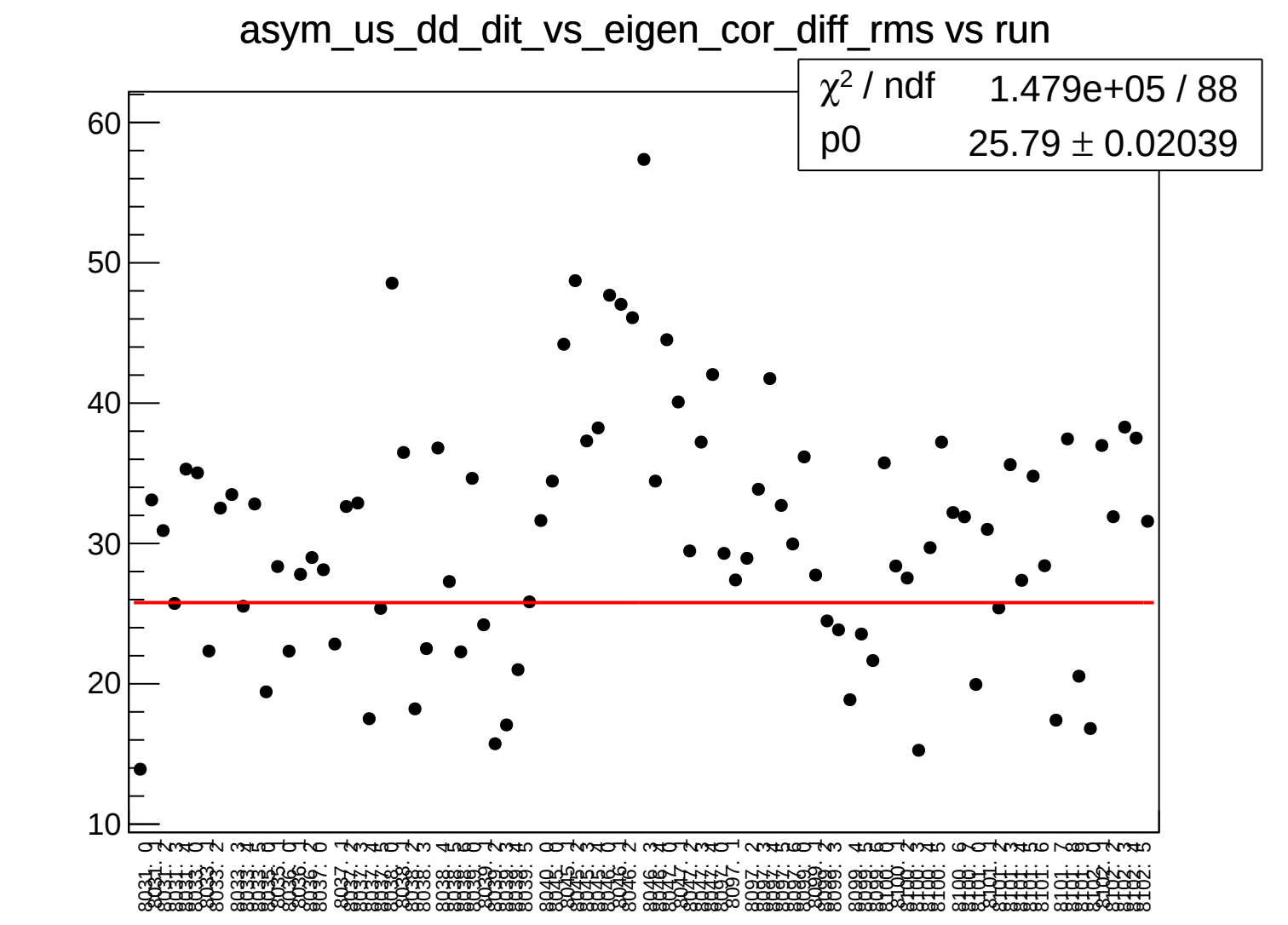

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.997e+05 / 88
p0 7.211e−11 ± 6.731e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

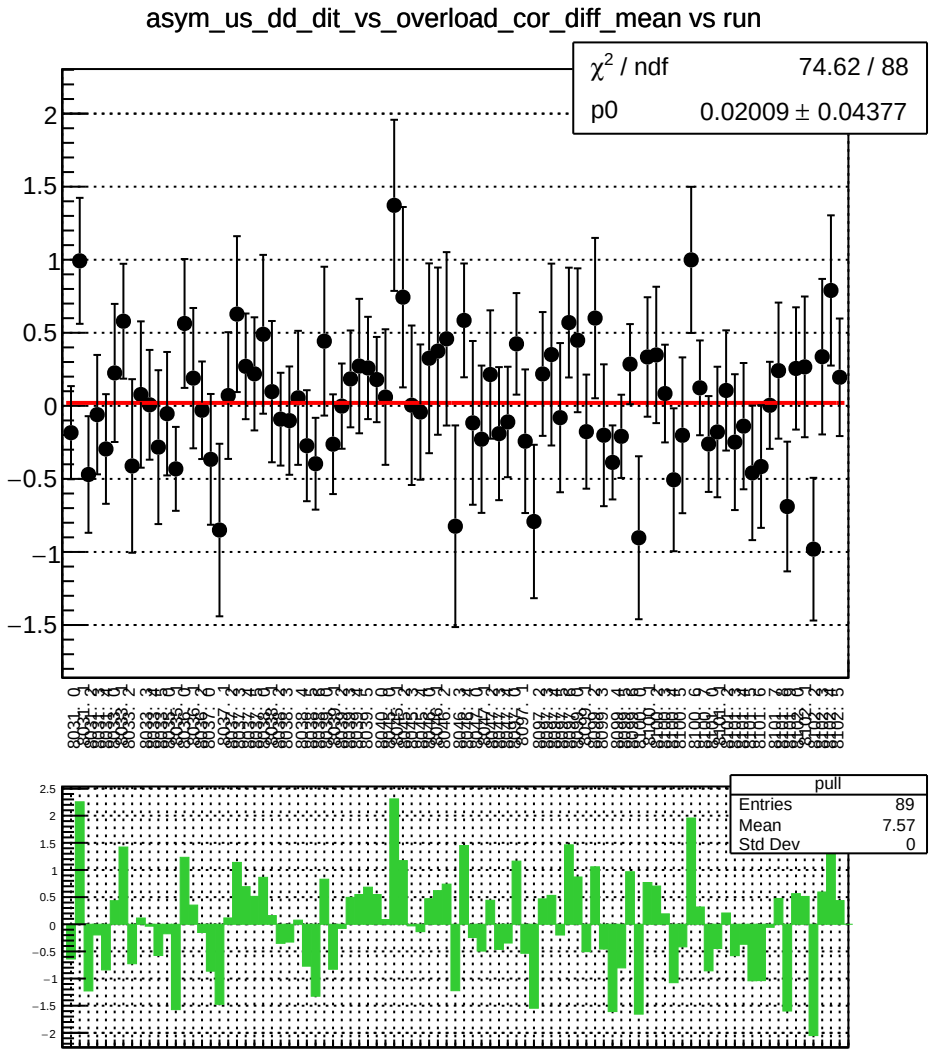

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 93.93 / 88
p0 0.02911 ± 0.02883
pull
Entries 89
Mean 138.9
Std Dev 0

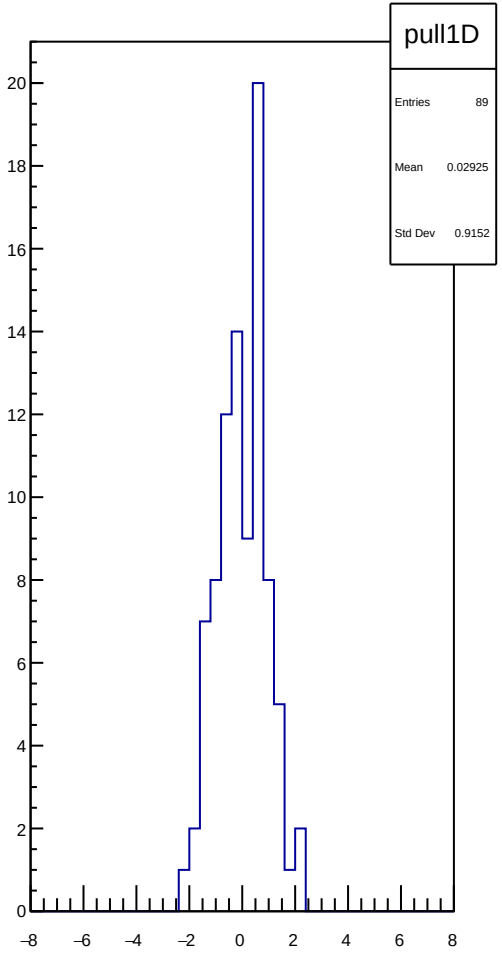

pull1D
Entries 89
Mean 0.0459
Std Dev 1.026

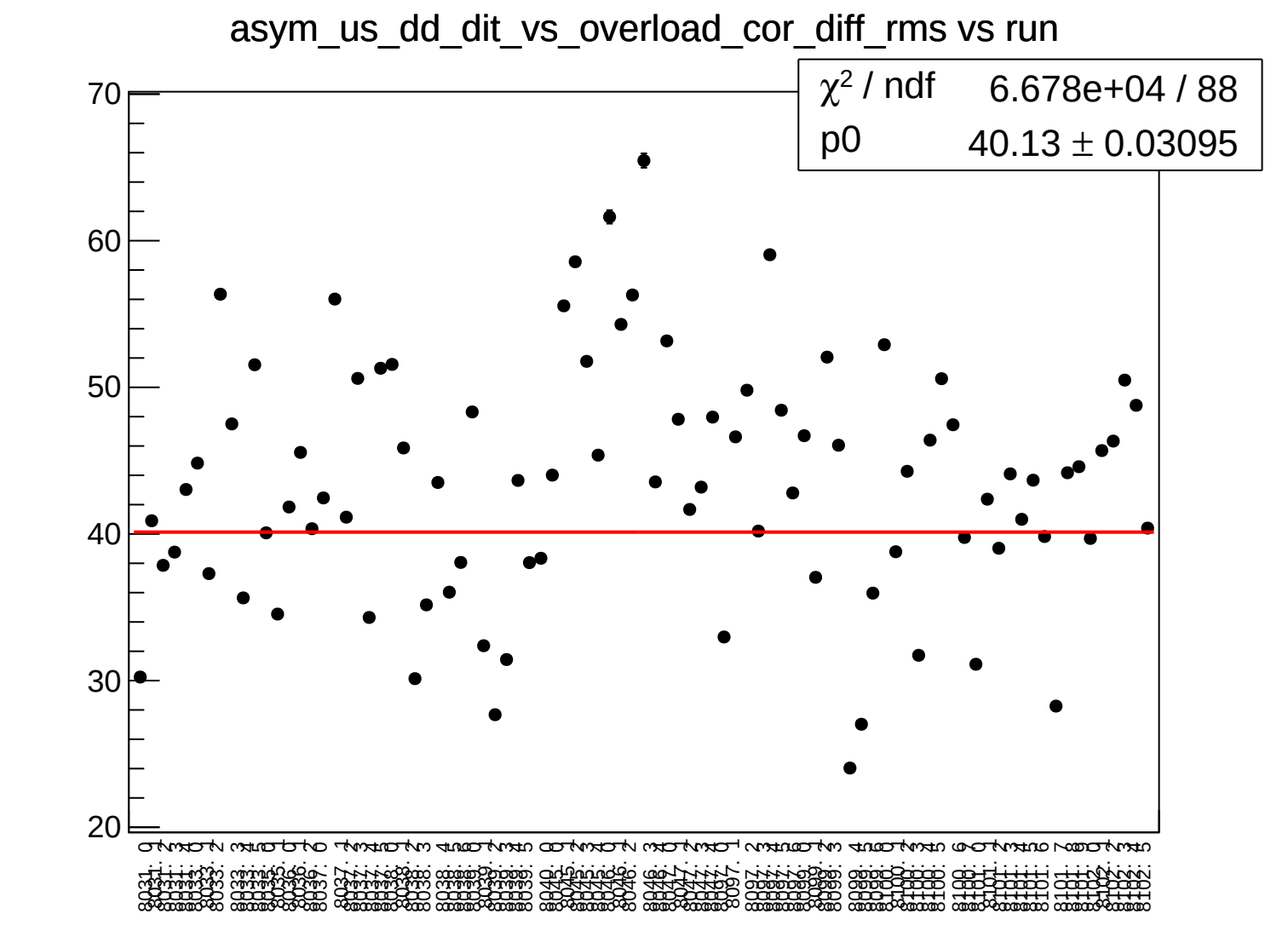

asym_us_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.479e+05 / 88
p0 25.79 ± 0.02039
60
50
40
30
20
10

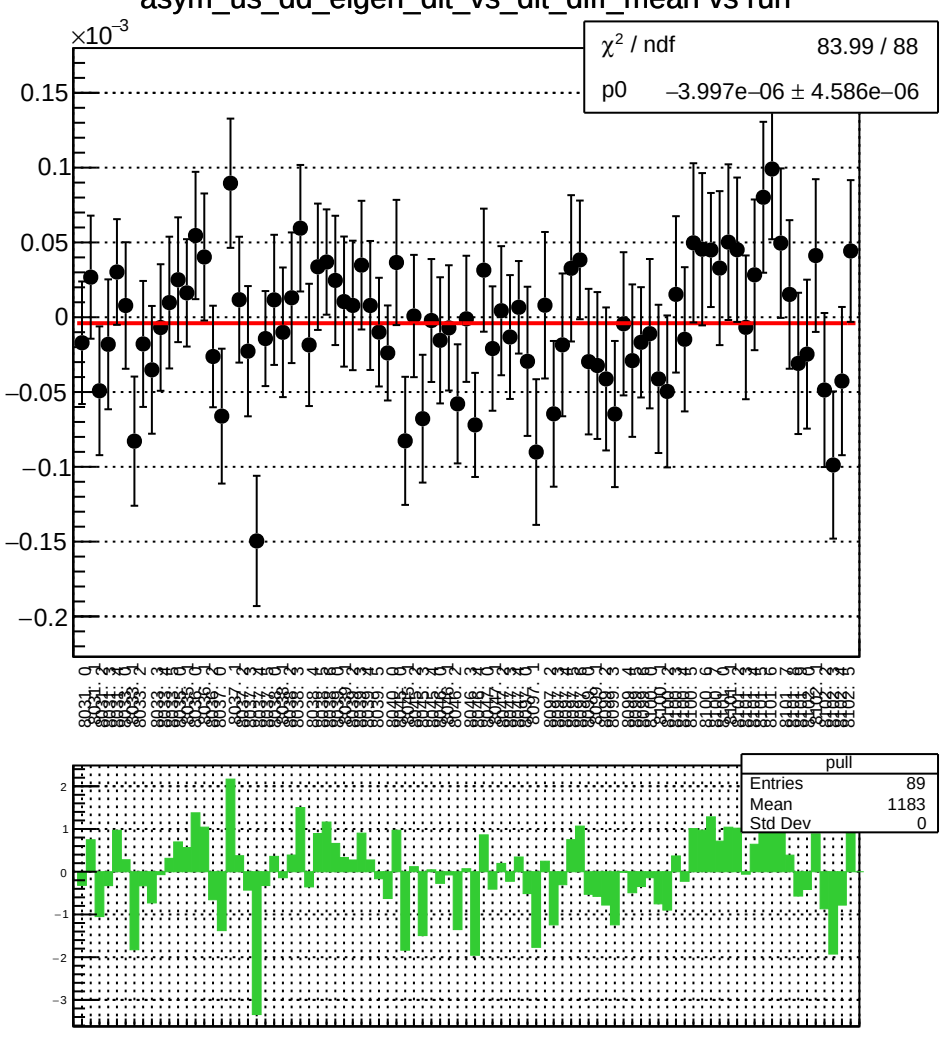

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.93 / 88
p0 0.02911 ± 0.02883
pull
Entries 89
Mean 138.9
Std Dev 0
pull1D
Entries 89
Mean 0.0459
Std Dev 1.026

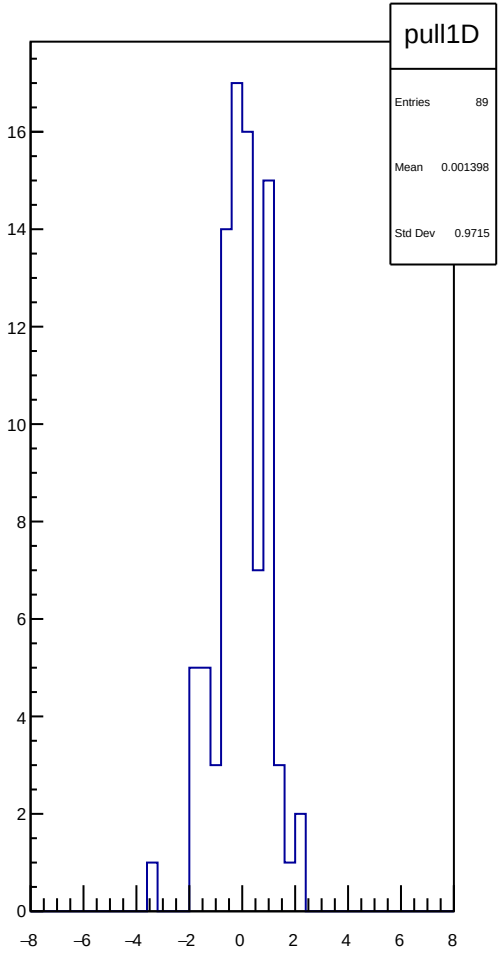

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.479e+05 / 88
p0 25.79 ± 0.02039
60
50
40
30
20
10

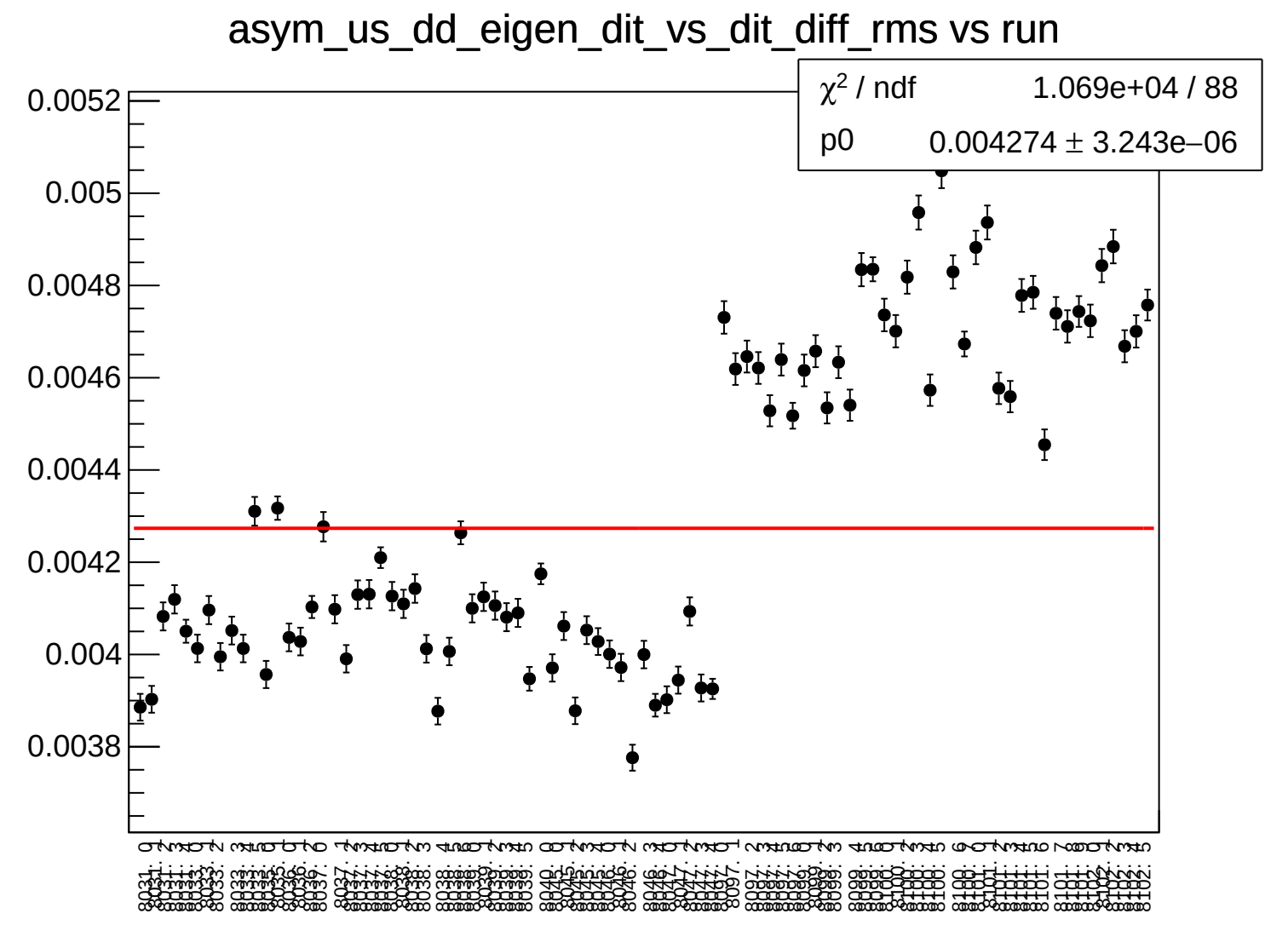

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 74.62 / 88
p0 0.02009 ± 0.04377
pull
Entries 89
Mean 7.57
Std Dev 0

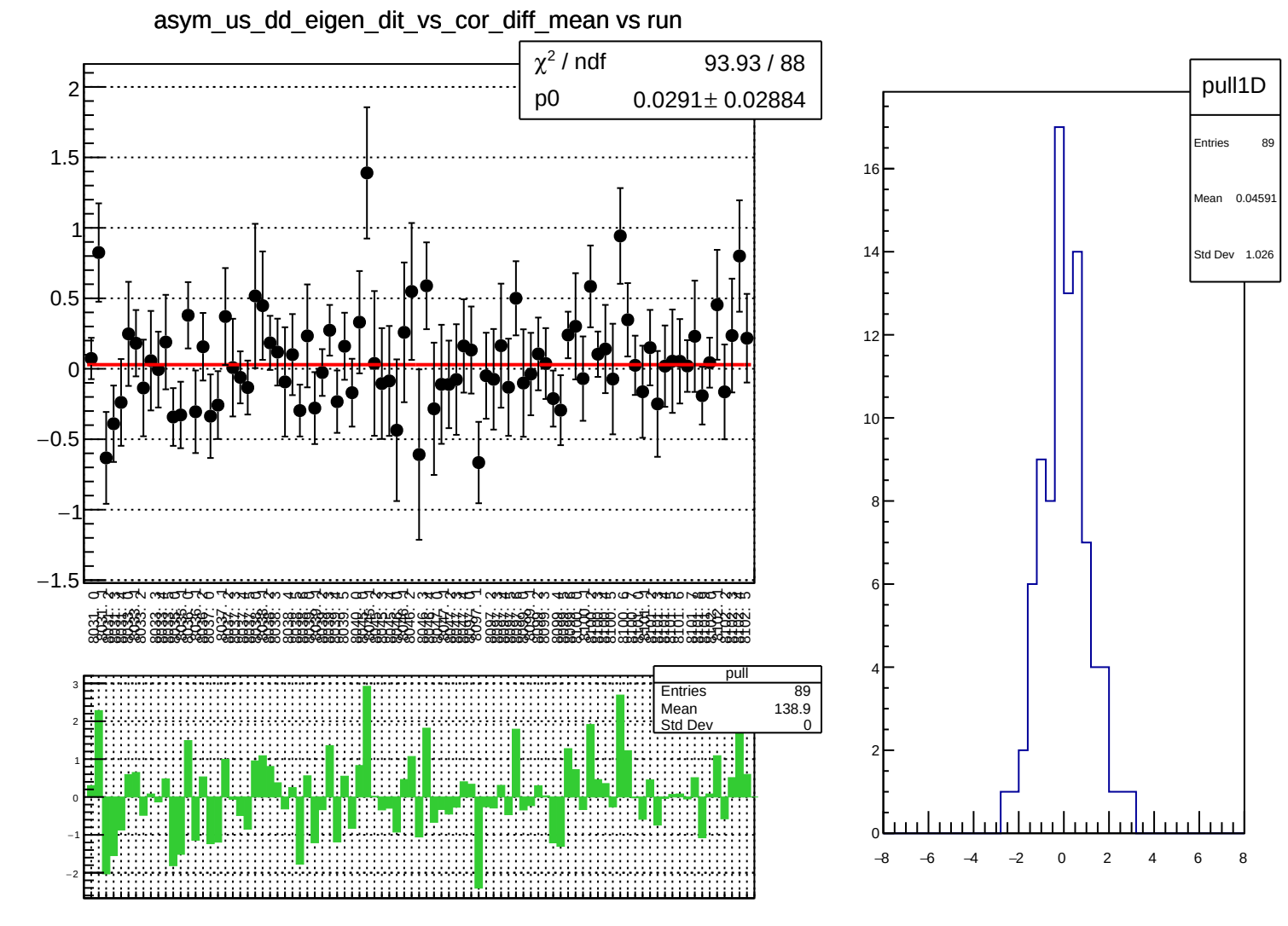

pull1D
Entries 89
Mean 0.02925
Std Dev 0.9152

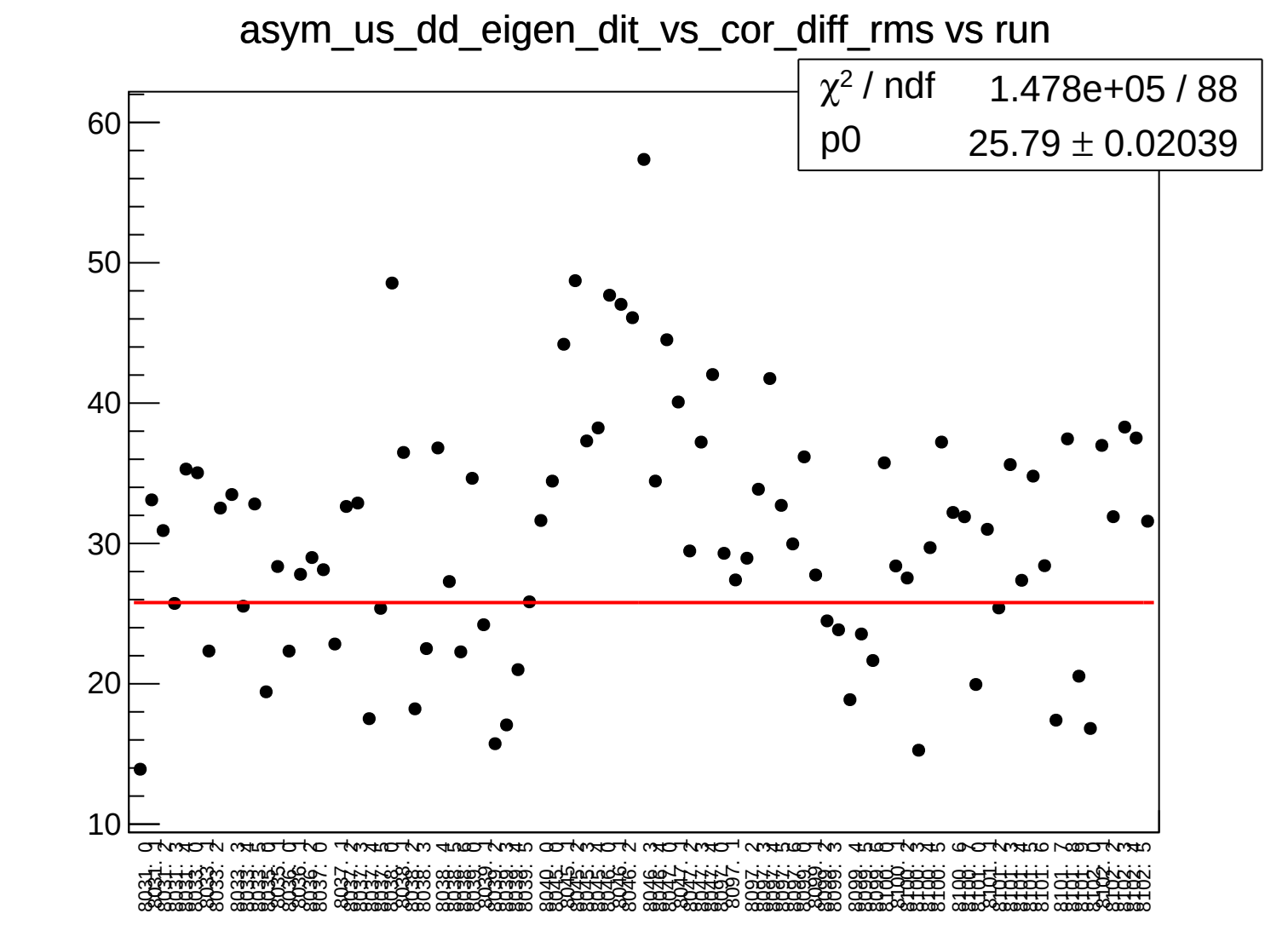

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
$\chi^2$ / ndf 6.678e+04 / 88
p0 40.13 ± 0.03095
70
60
50
40
30
20

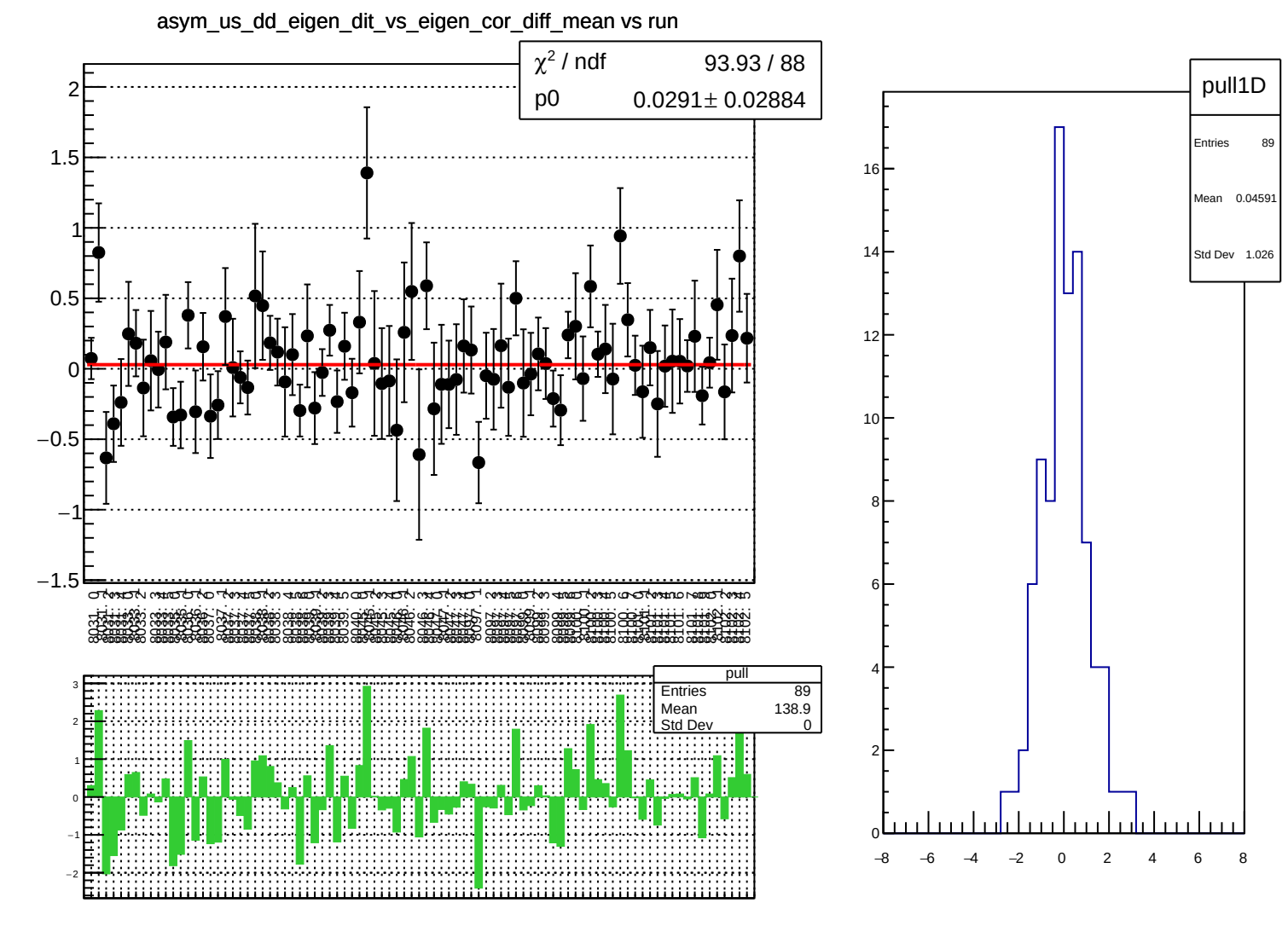

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.99 / 88
p0 −3.997e−06 ± 4.586e−06
pull
Entries 89
Mean 1183
Std Dev 0

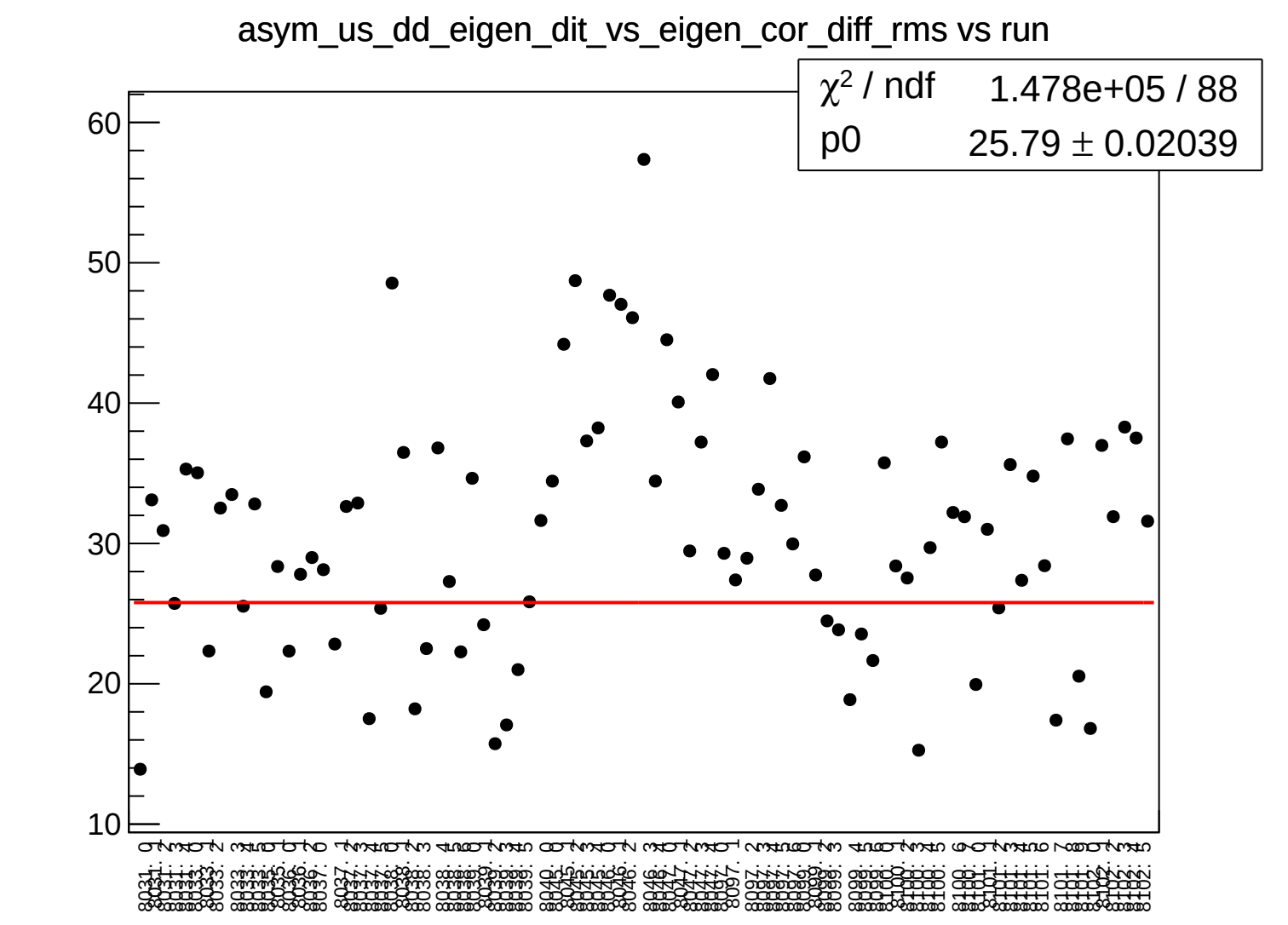

pull1D
Entries 89
Mean 0.001398
Std Dev 0.9715

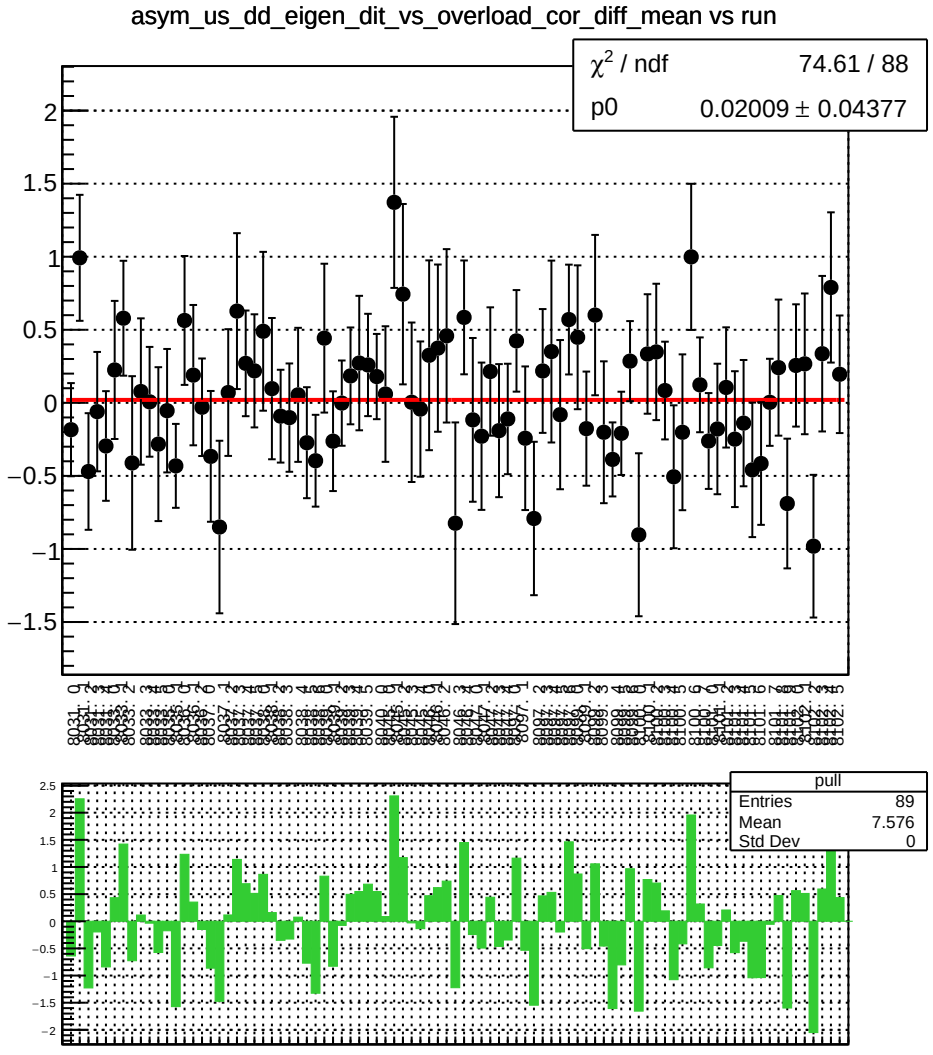

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.069e+04 / 88
p0 0.004274 ± 3.243e−06
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038

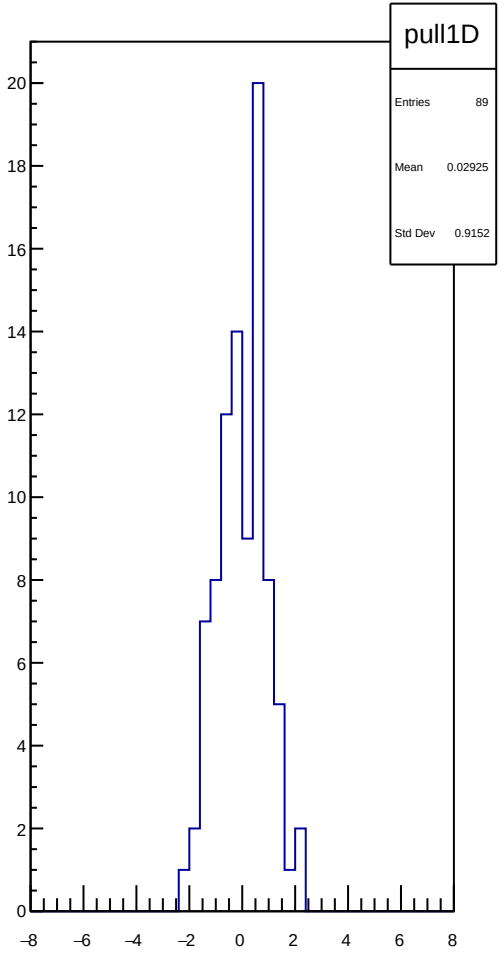

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.93 / 88
p0 0.0291± 0.02884
pull
Entries 89
Mean 138.9
Std Dev 0
pull1D
Entries 89
Mean 0.04591
Std Dev 1.026

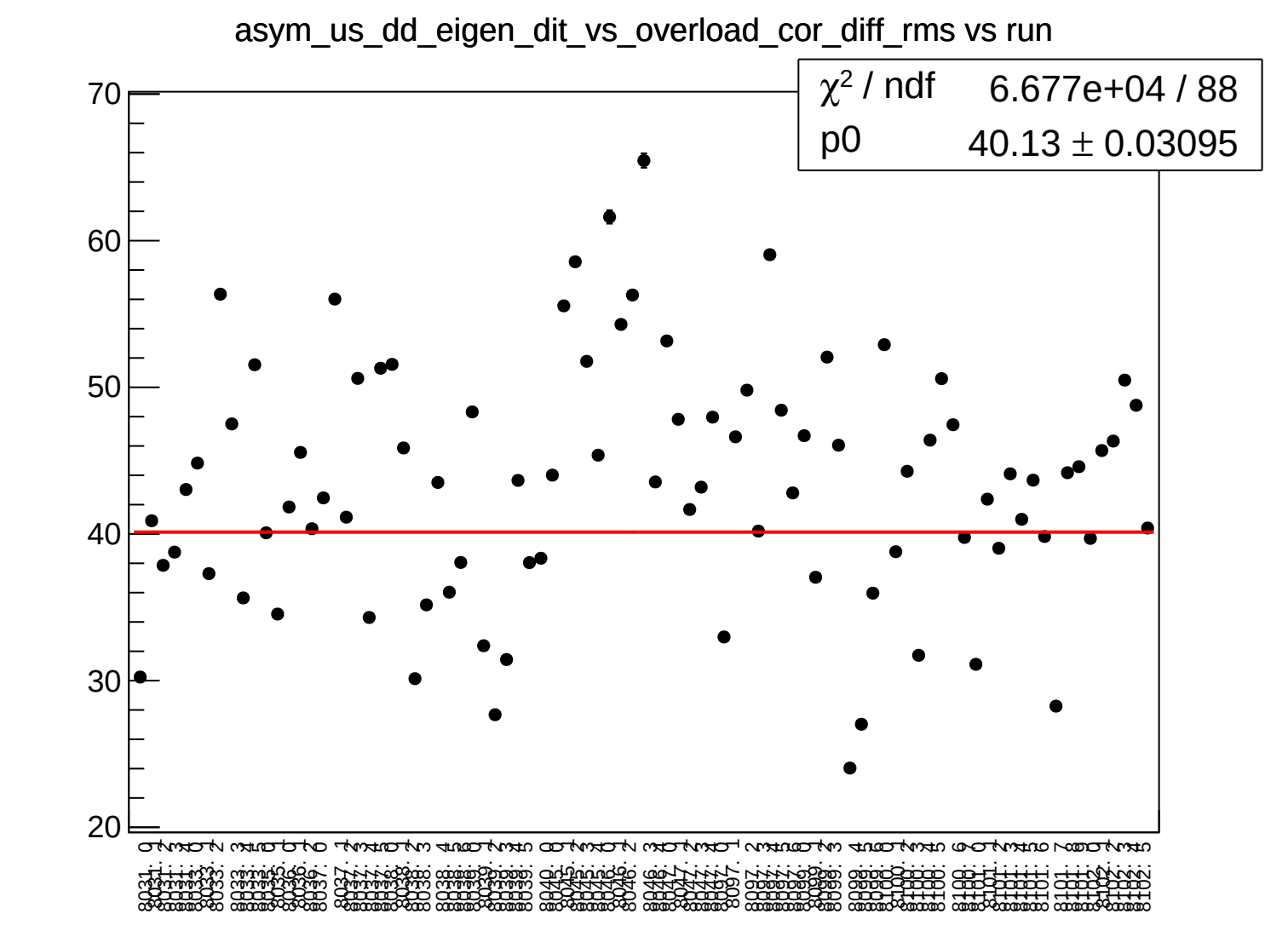

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.478e+05 / 88
p0 25.79 ± 0.02039
60
50
40
30
20
10

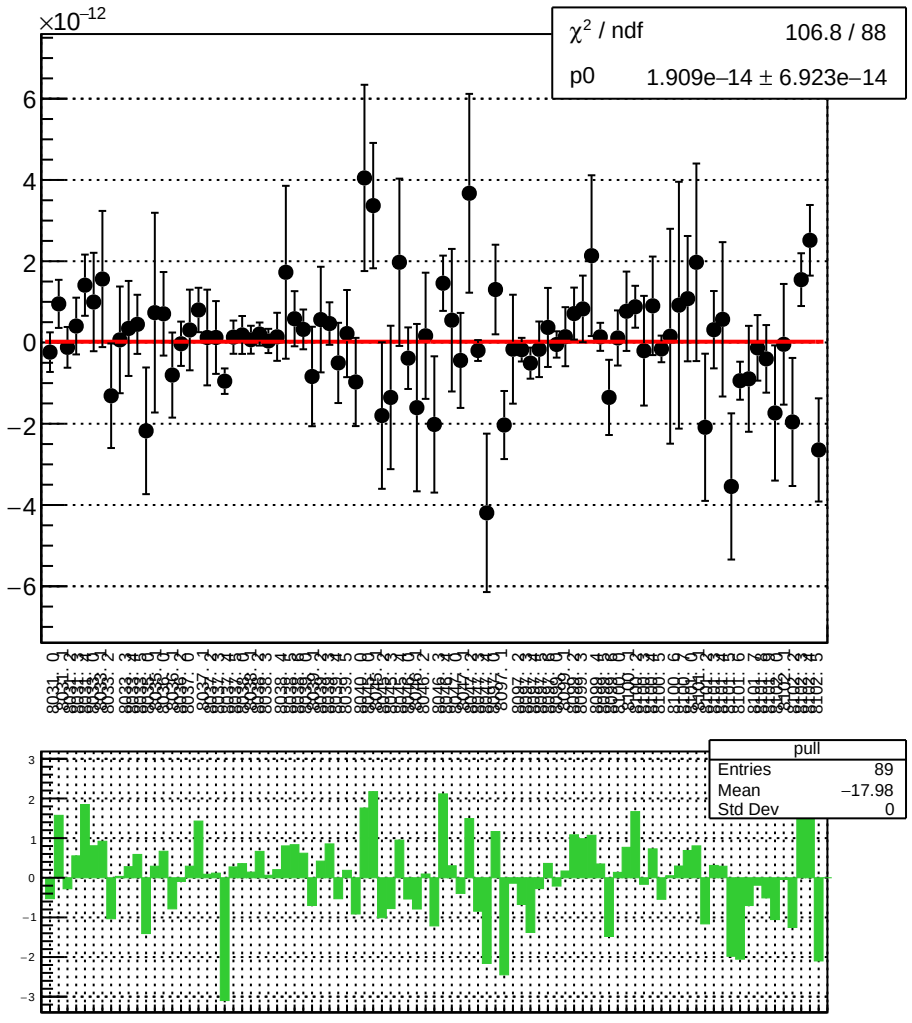

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.93 / 88
p0 0.0291± 0.02884
pull
Entries 89
Mean 138.9
Std Dev 0
pull1D
Entries 89
Mean 0.04591
Std Dev 1.026

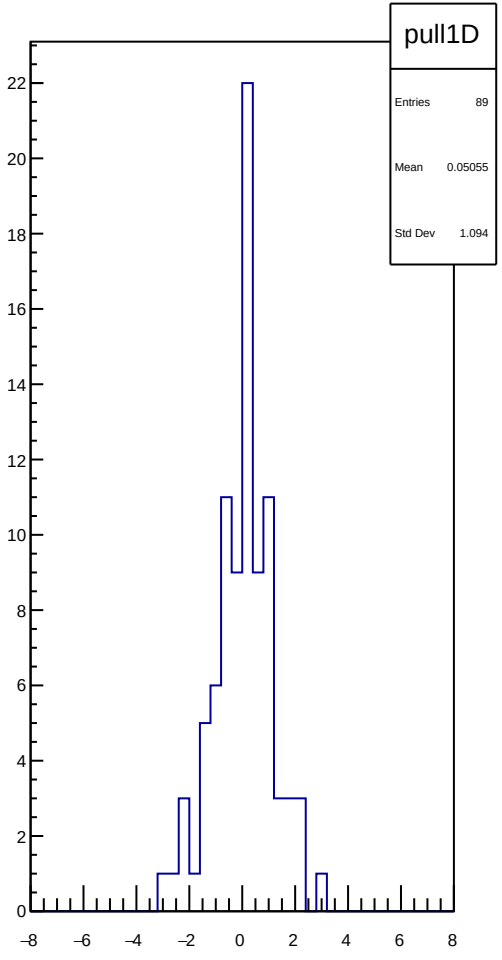

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.478e+05 / 88
p0 25.79 ± 0.02039
60
50
40
30
20
10

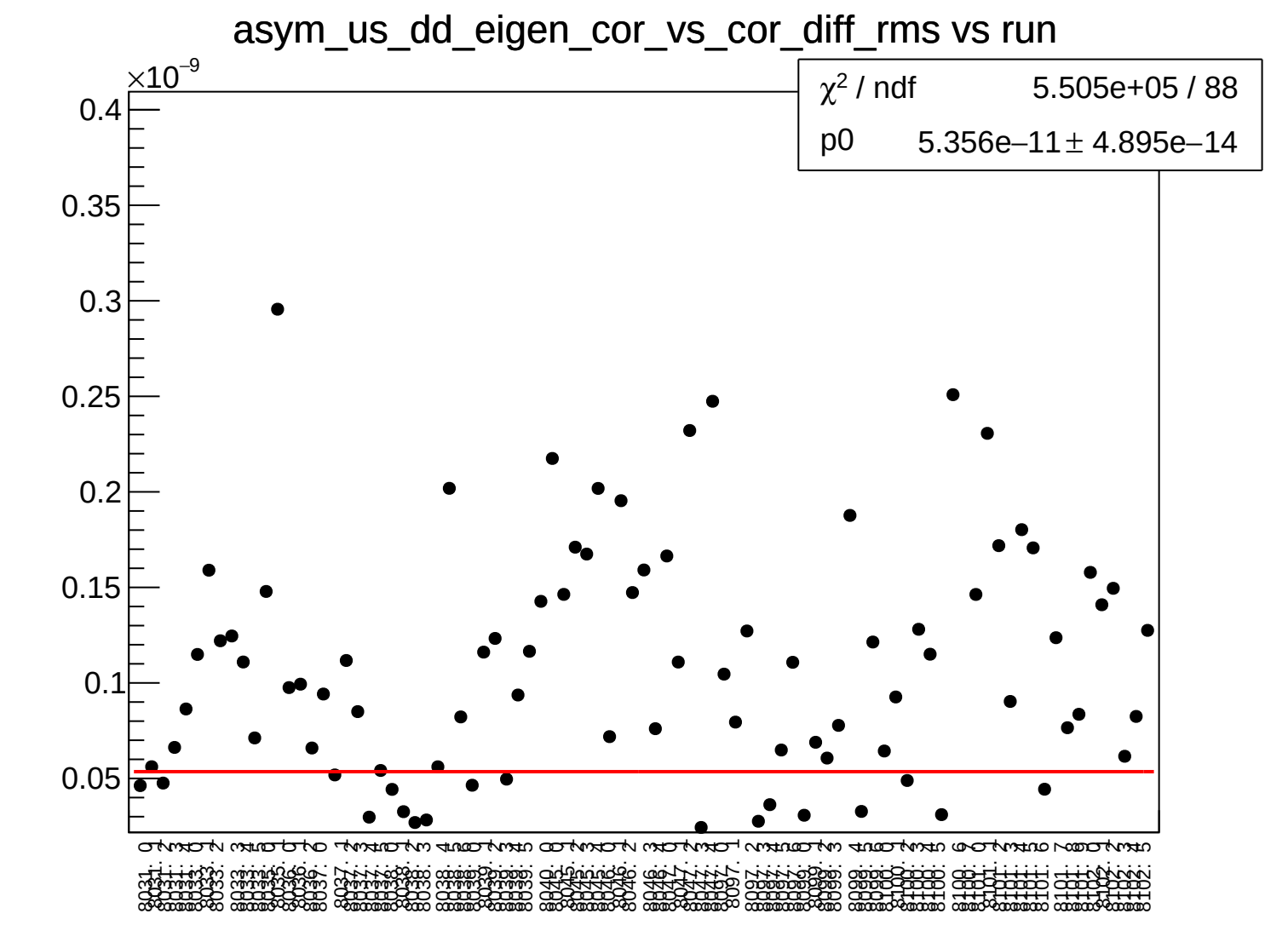

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 74.61 / 88
p0 0.02009 ± 0.04377
pull
Entries 89
Mean 7.576
Std Dev 0

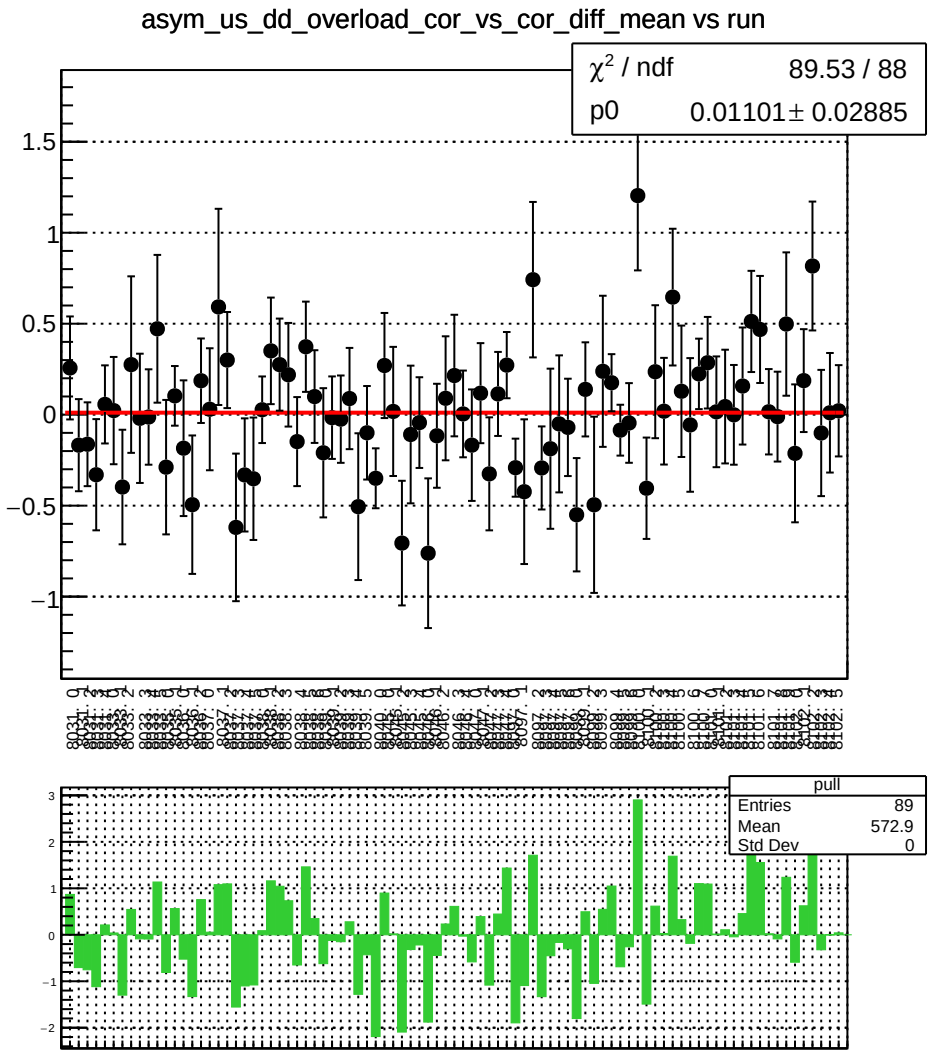

pull1D
Entries 89
Mean 0.02925
Std Dev 0.9152

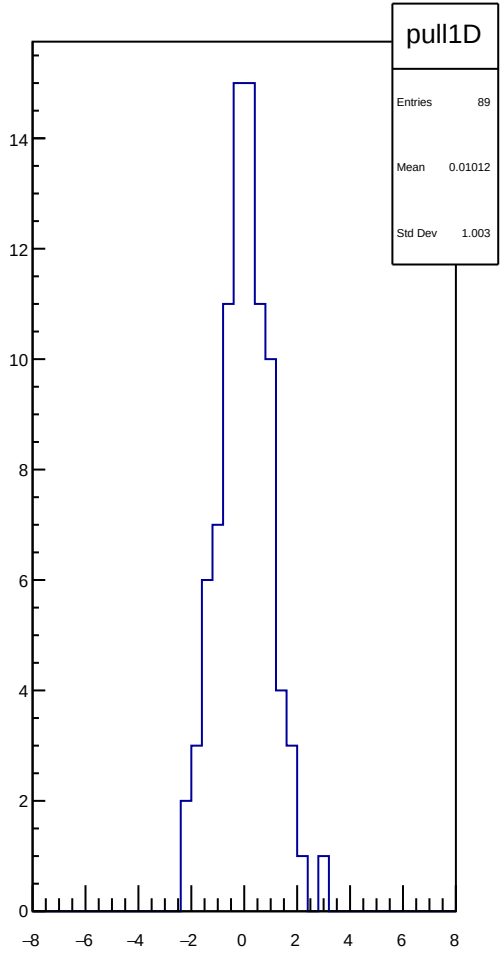

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 6.677e+04 / 88
p0 40.13 ± 0.03095
70
60
50
40
30
20

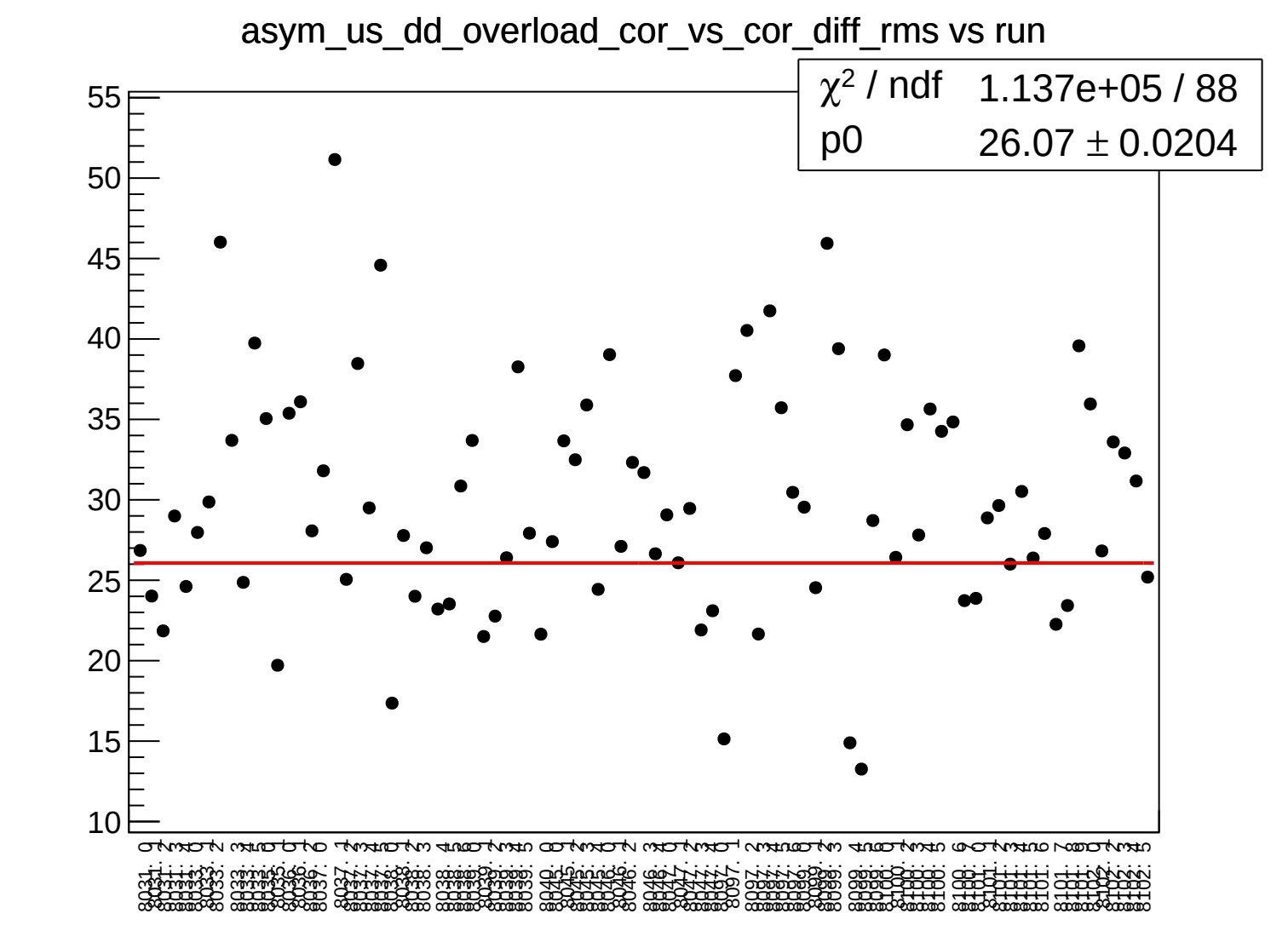

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 106.8 / 88
p0 1.909e−14 ± 6.923e−14
pull
Entries 89
Mean −17.98
Std Dev 0

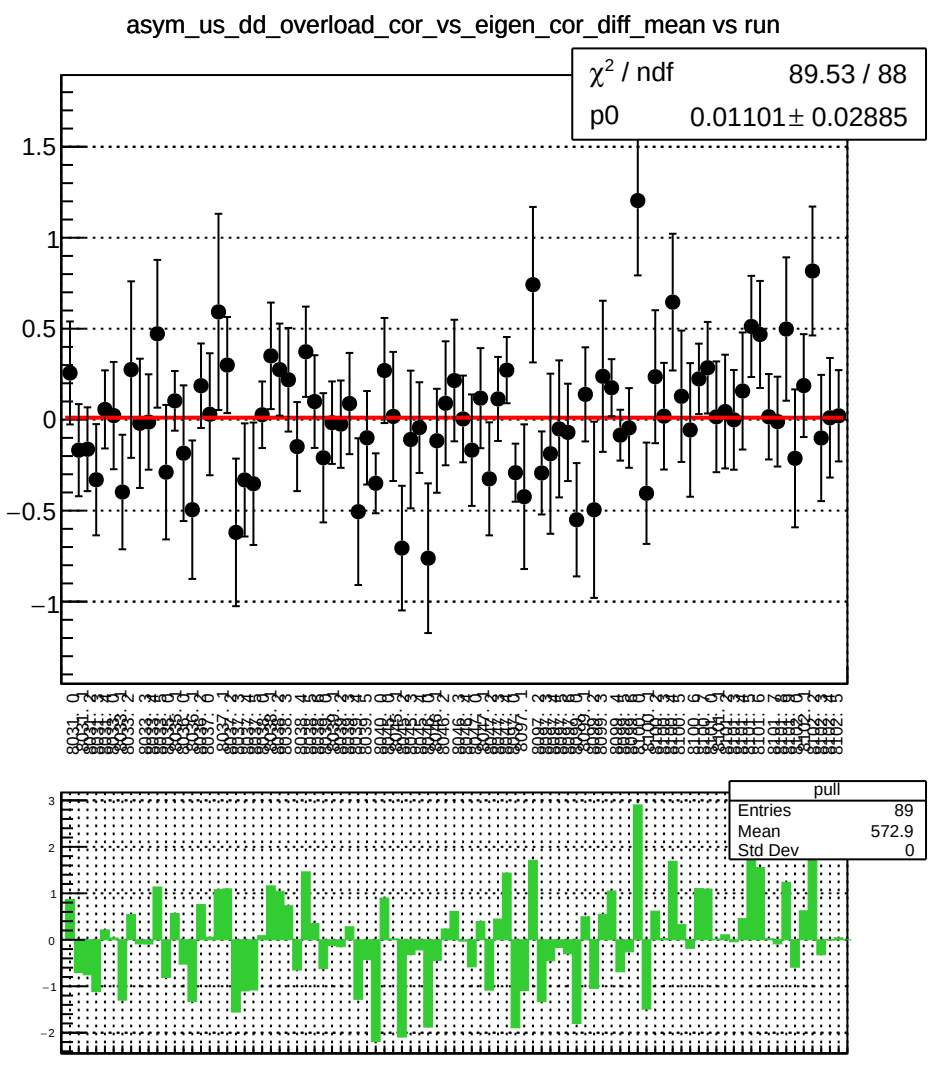

pull1D
Entries 89
Mean 0.05055
Std Dev 1.094

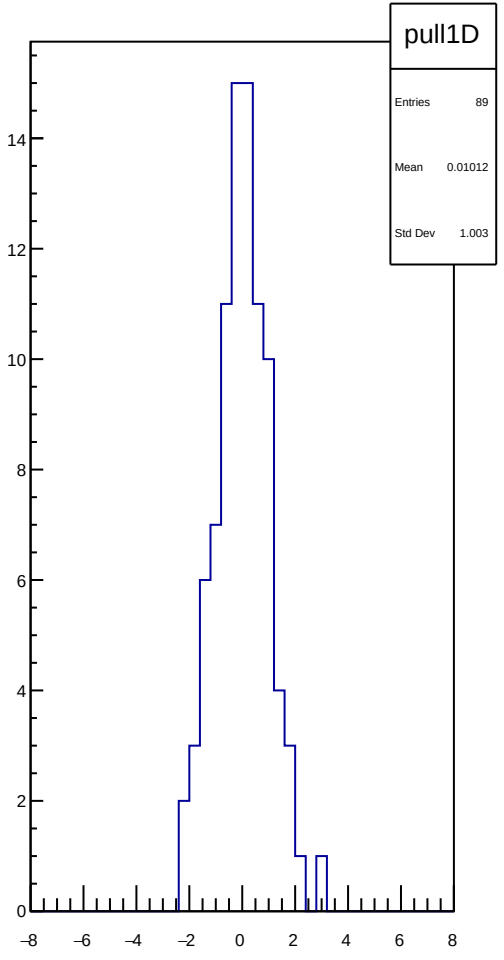

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.505e+05 / 88
p0 5.356e−11 ± 4.895e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

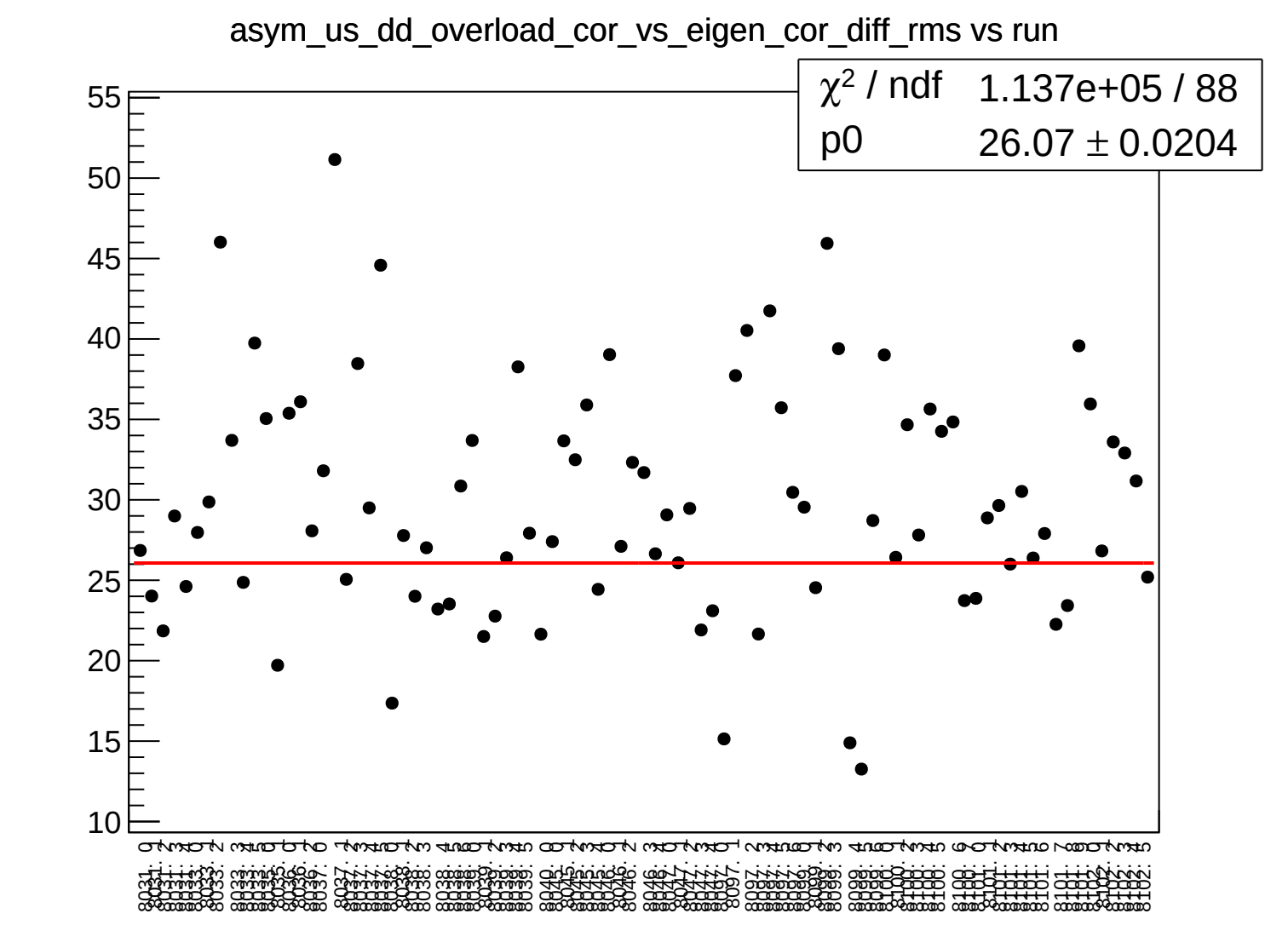

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 89.53 / 88
p0 0.01101 ± 0.02885
1.5
1
0.5
0
−0.5
−1
pull
Entries 89
Mean 572.9
Std Dev 0
3
2
1
0
−1
−2

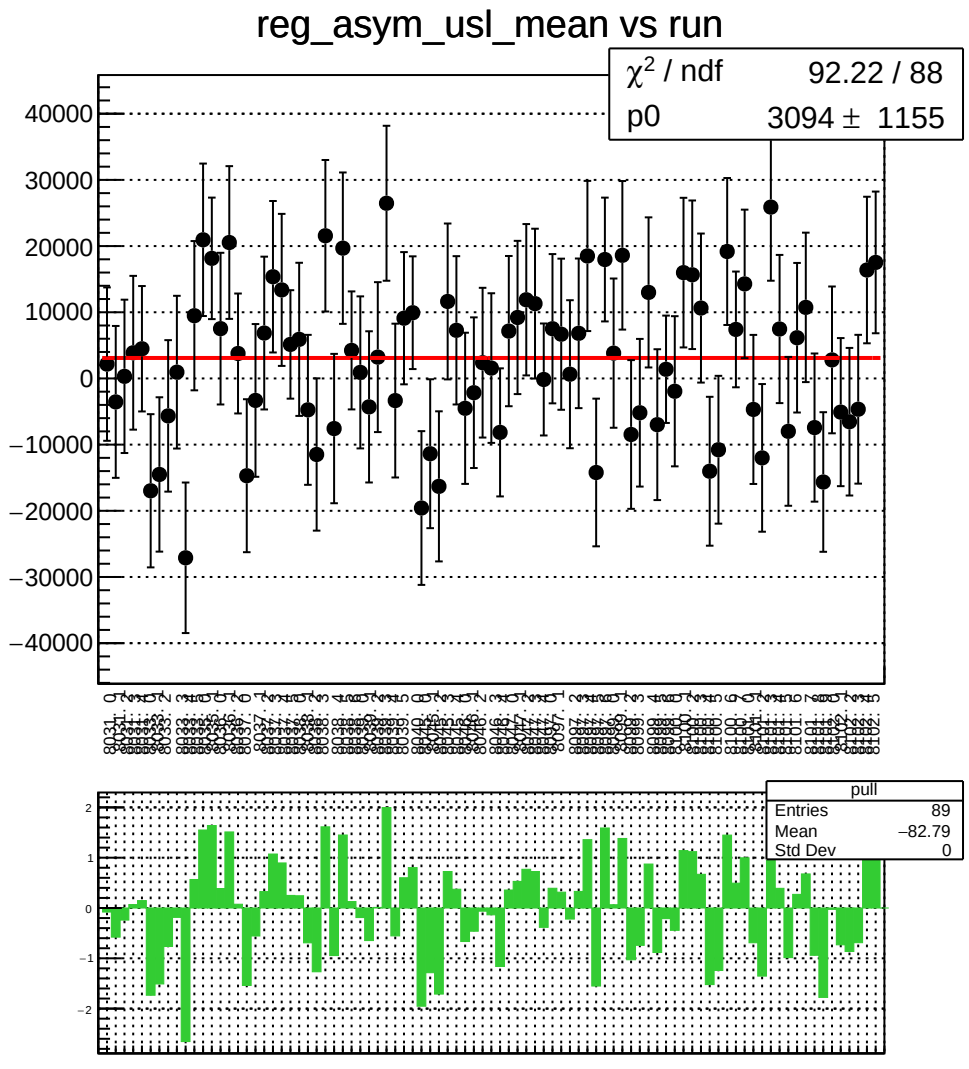

pull1D
Entries 89
Mean 0.01012
Std Dev 1.003
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

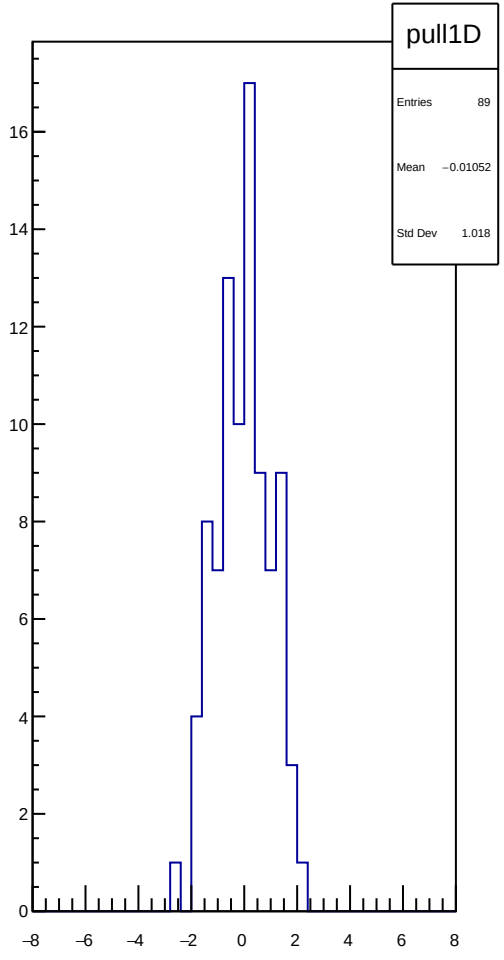

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.137e+05 / 88
p0 26.07 ± 0.0204
55
50
45
40
35
30
25
20
15
10

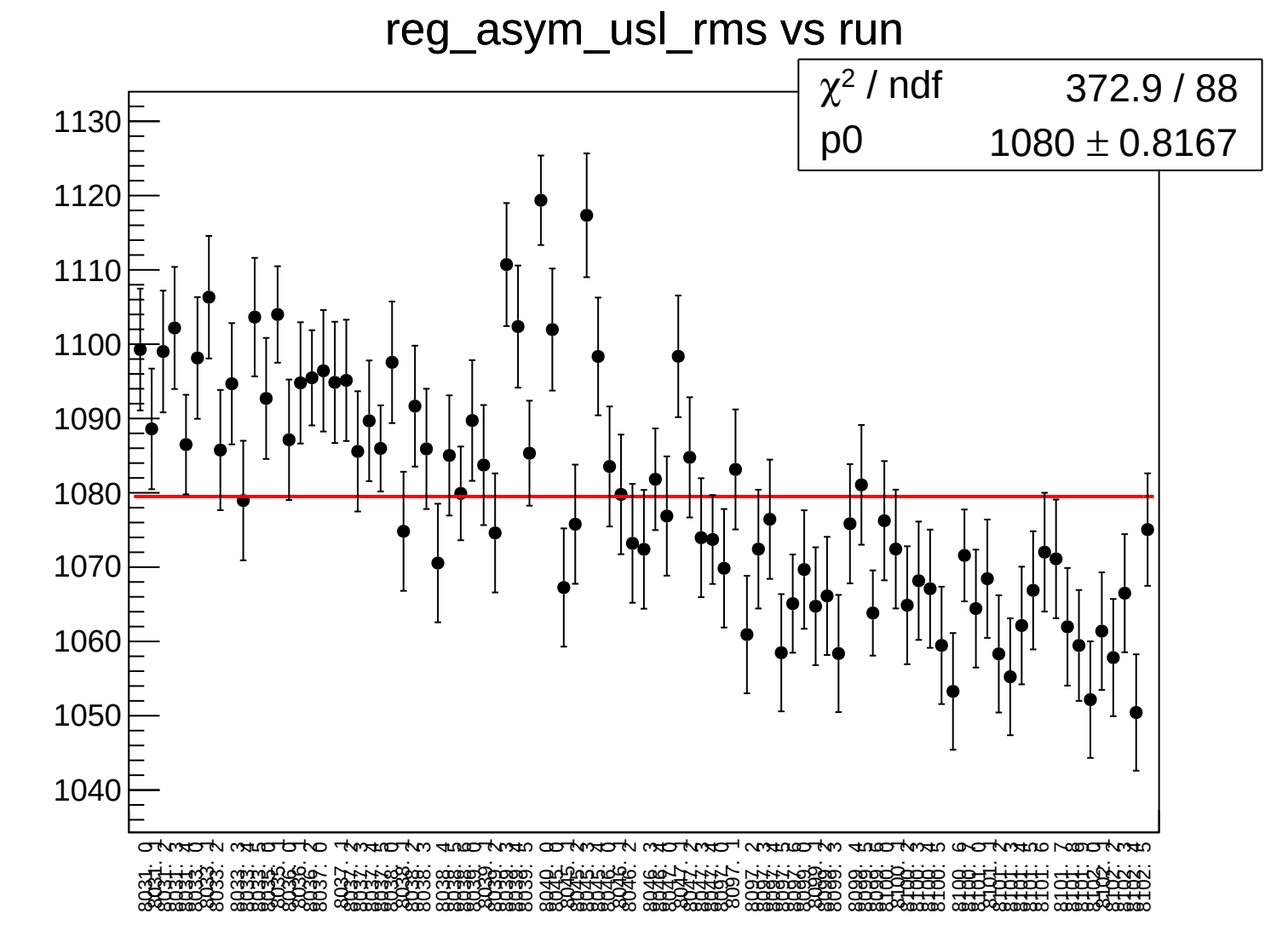

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.53 / 88
p0 0.01101 ± 0.02885
pull
Entries 89
Mean 572.9
Std Dev 0

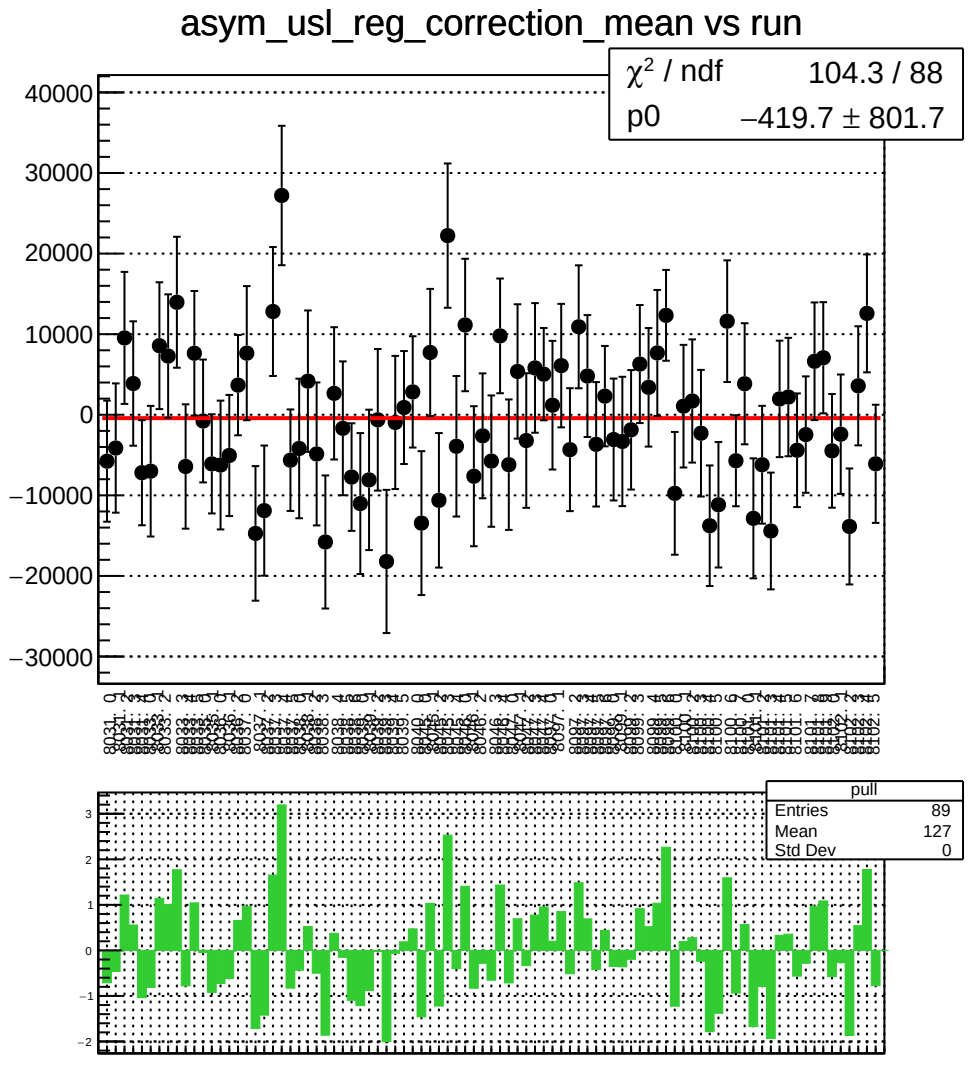

pull1D
Entries 89
Mean 0.01012
Std Dev 1.003

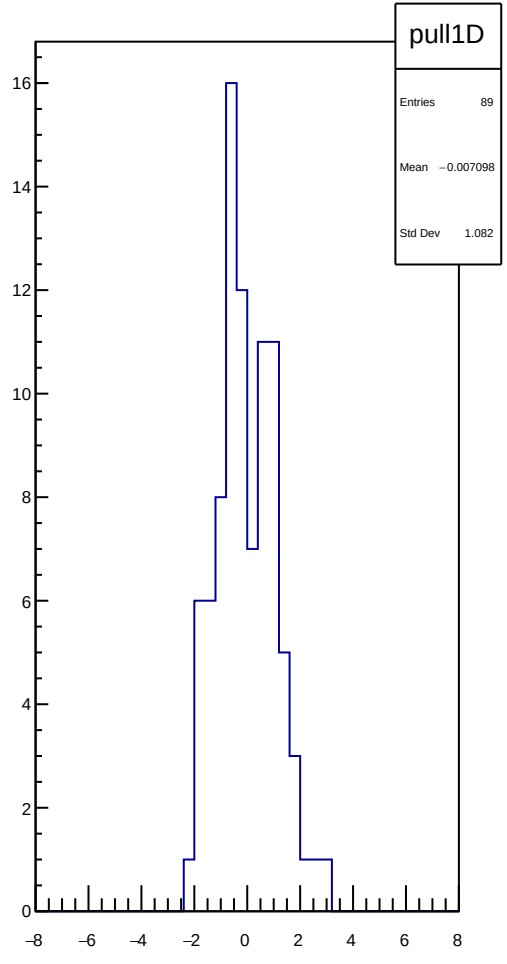

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.137e+05 / 88
p0 26.07 ± 0.0204
55
50
45
40
35
30
25
20
15
10

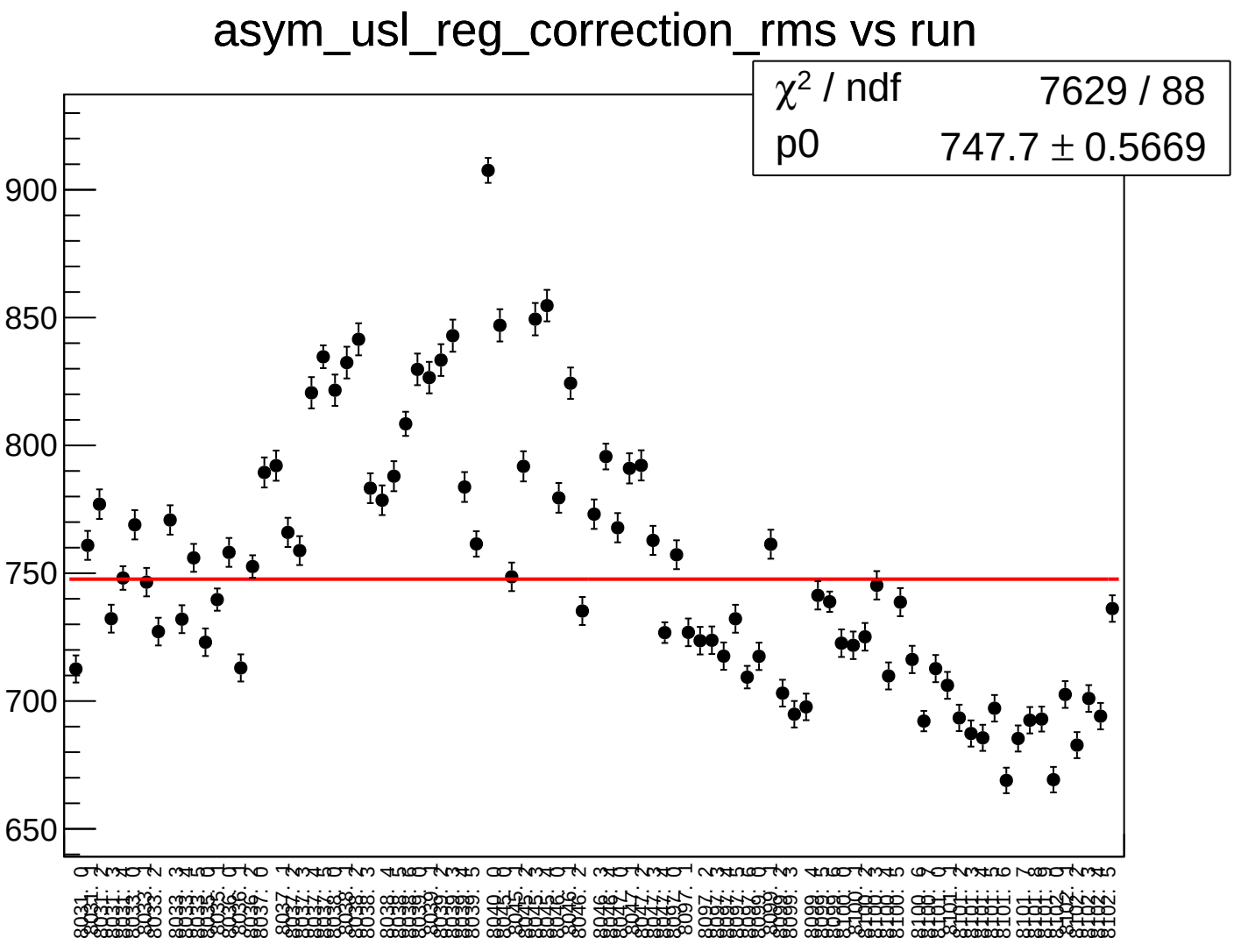

reg_asym_usl_mean vs run
χ² / ndf 92.22 / 88
p0 3094 ± 1155
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean −82.79
Std Dev 0
2
1
0
−1
−2

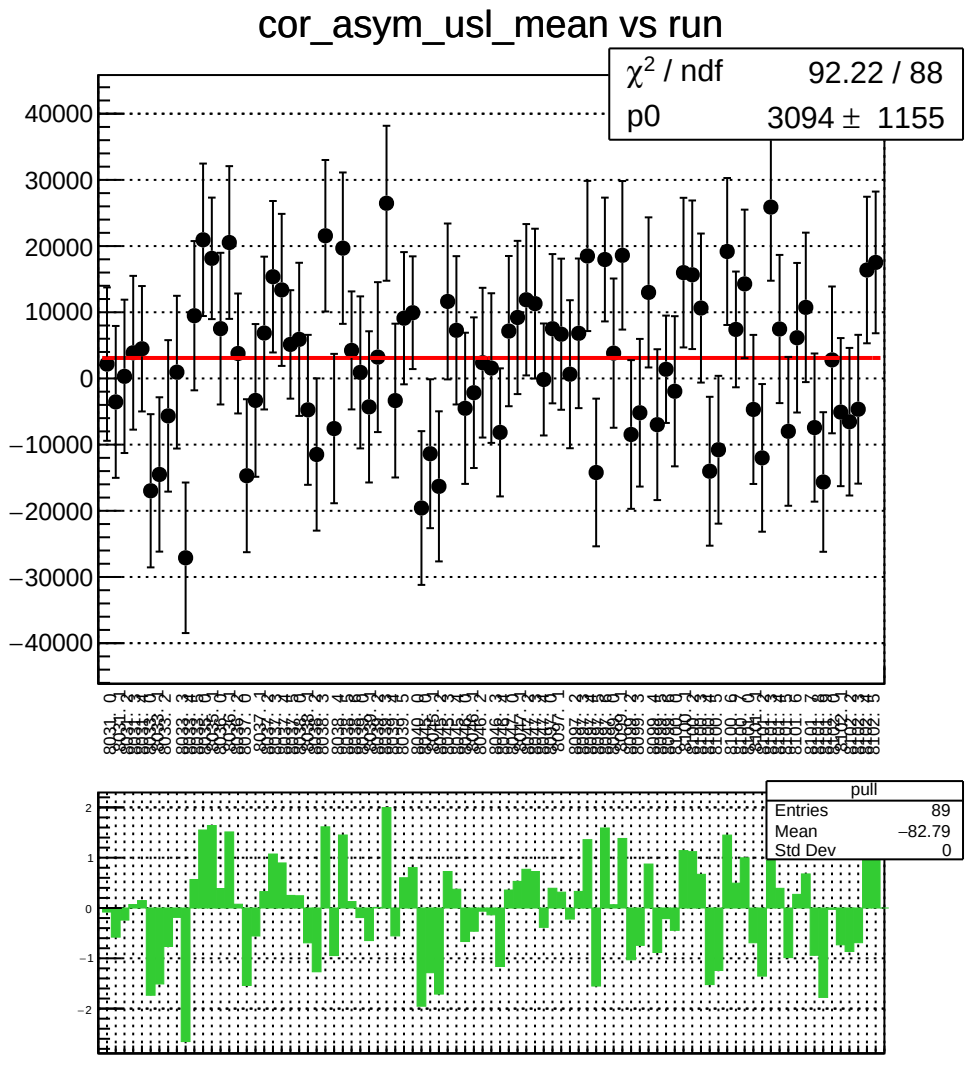

pull1D
Entries 89
Mean −0.01052
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

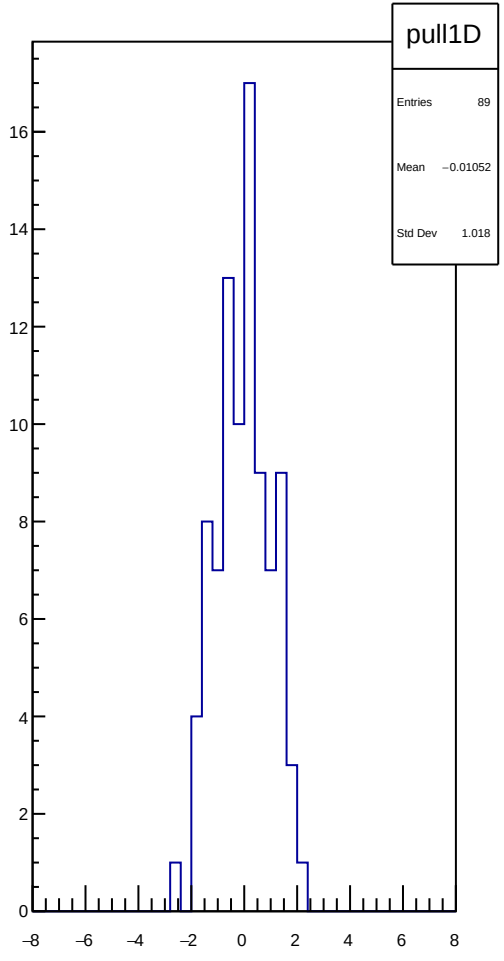

reg_asym_usl_rms vs run
χ² / ndf 372.9 / 88
p0 1080 ± 0.8167
1130
1120
1110
1100
1090
1080
1070
1060
1050
1040

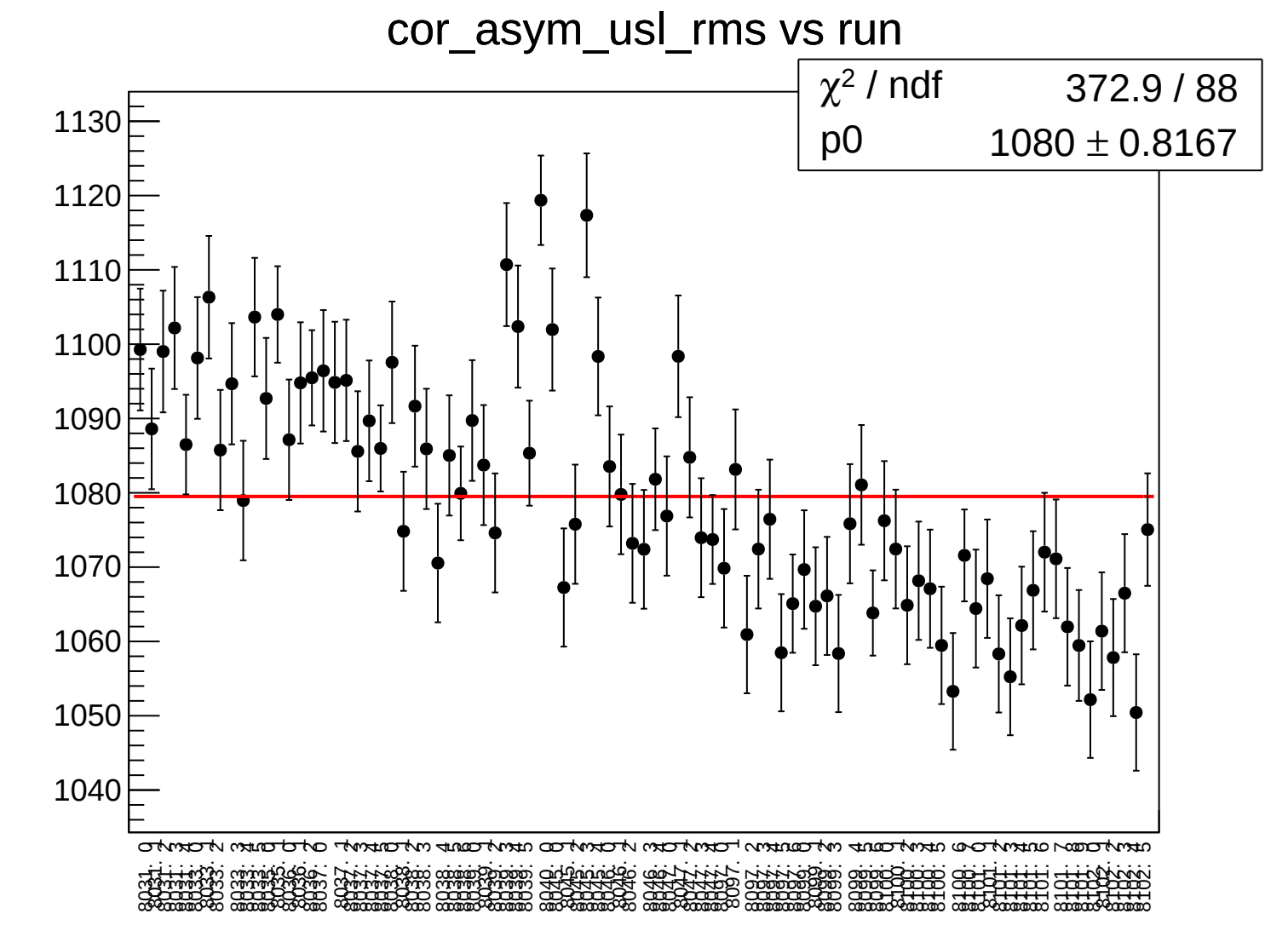

asym_usl_reg_correction_mean vs run
χ² / ndf 104.3 / 88
p0 −419.7 ± 801.7
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 127
Std Dev 0
3
2
1
0
−1
−2

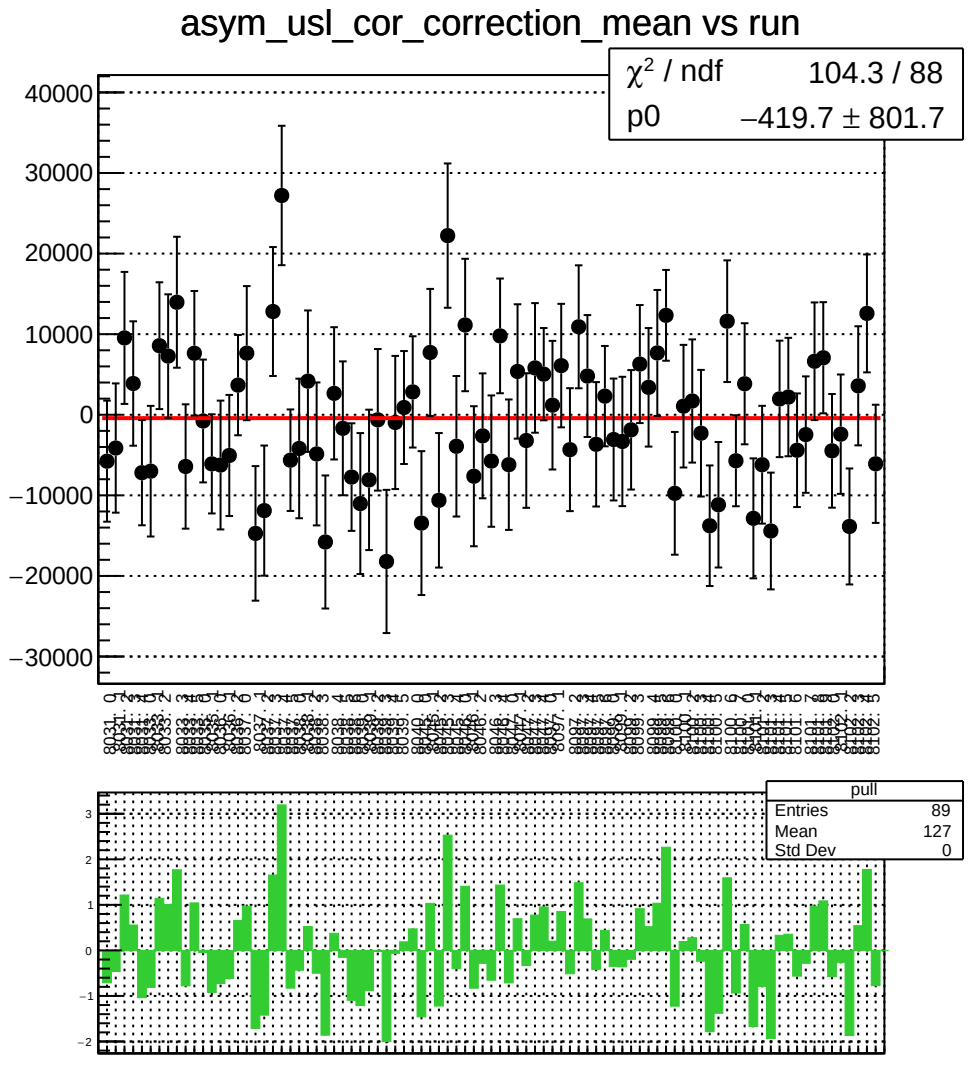

pull1D
Entries 89
Mean −0.007098
Std Dev 1.082
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

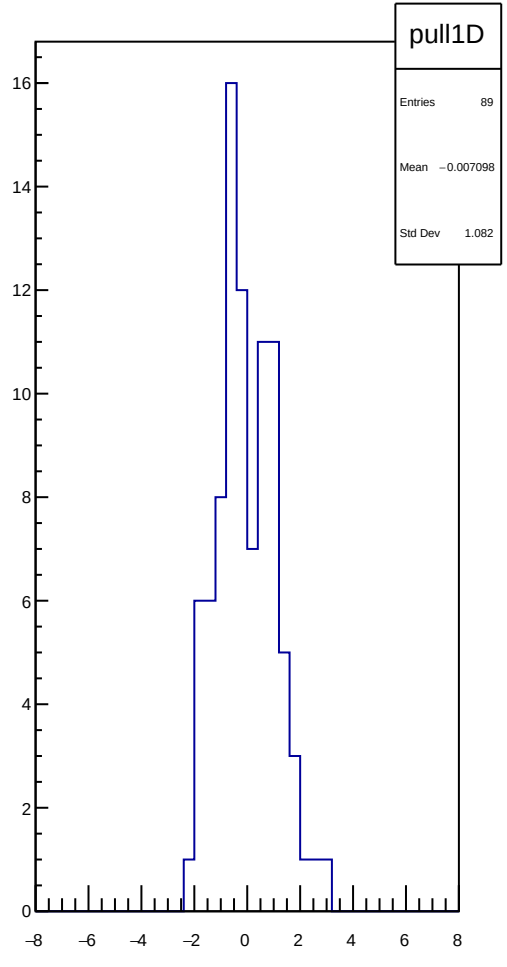

asym_usl_reg_correction_rms vs run
χ² / ndf 7629 / 88
p0 747.7 ± 0.5669
900
850
800
750
700
650

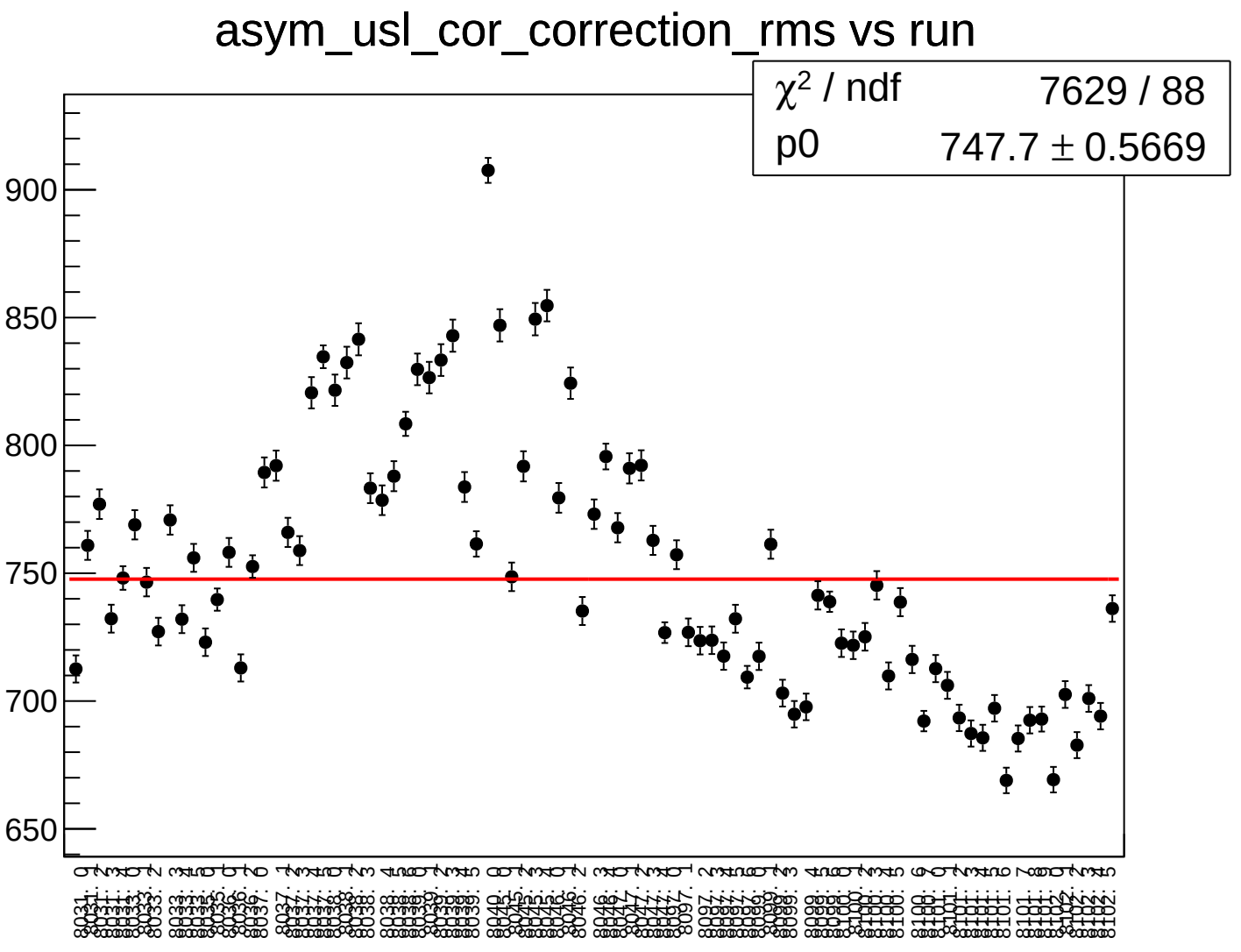

cor_asym_usl_mean vs run
χ² / ndf 92.22 / 88
p0 3094 ± 1155
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean −82.79
Std Dev 0
2
1
0
−1
−2

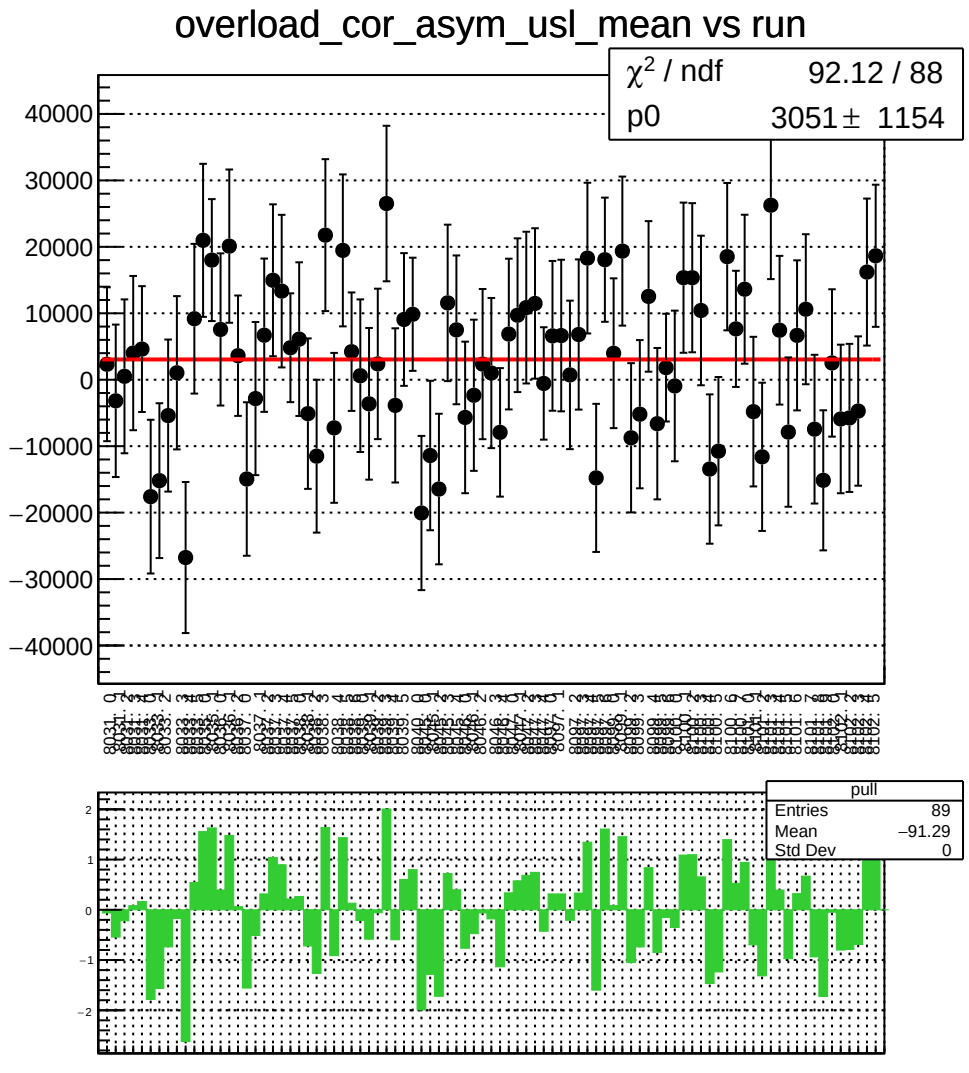

pull1D
Entries 89
Mean −0.01052
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

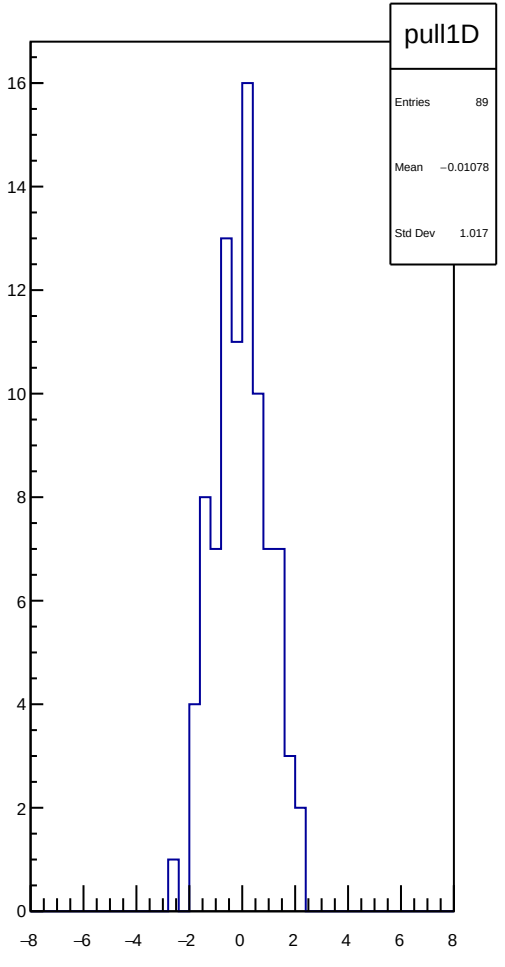

cor_asym_usl_rms vs run
χ² / ndf 372.9 / 88
p0 1080 ± 0.8167
1130
1120
1110
1100
1090
1080
1070
1060
1050
1040

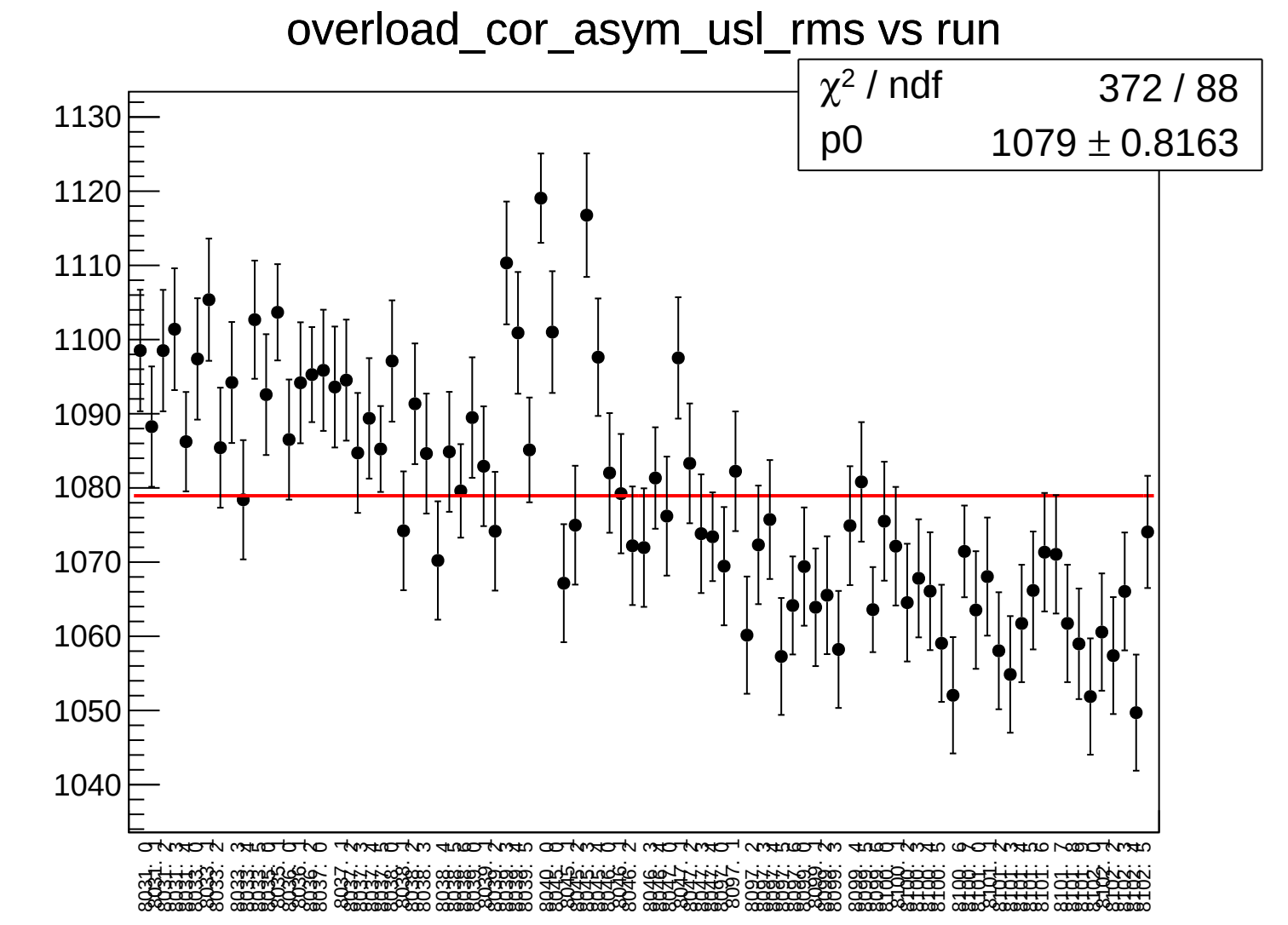

asym_usl_cor_correction_mean vs run
χ² / ndf 104.3 / 88
p0 −419.7 ± 801.7
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 127
Std Dev 0
3
2
1
0
−1
−2

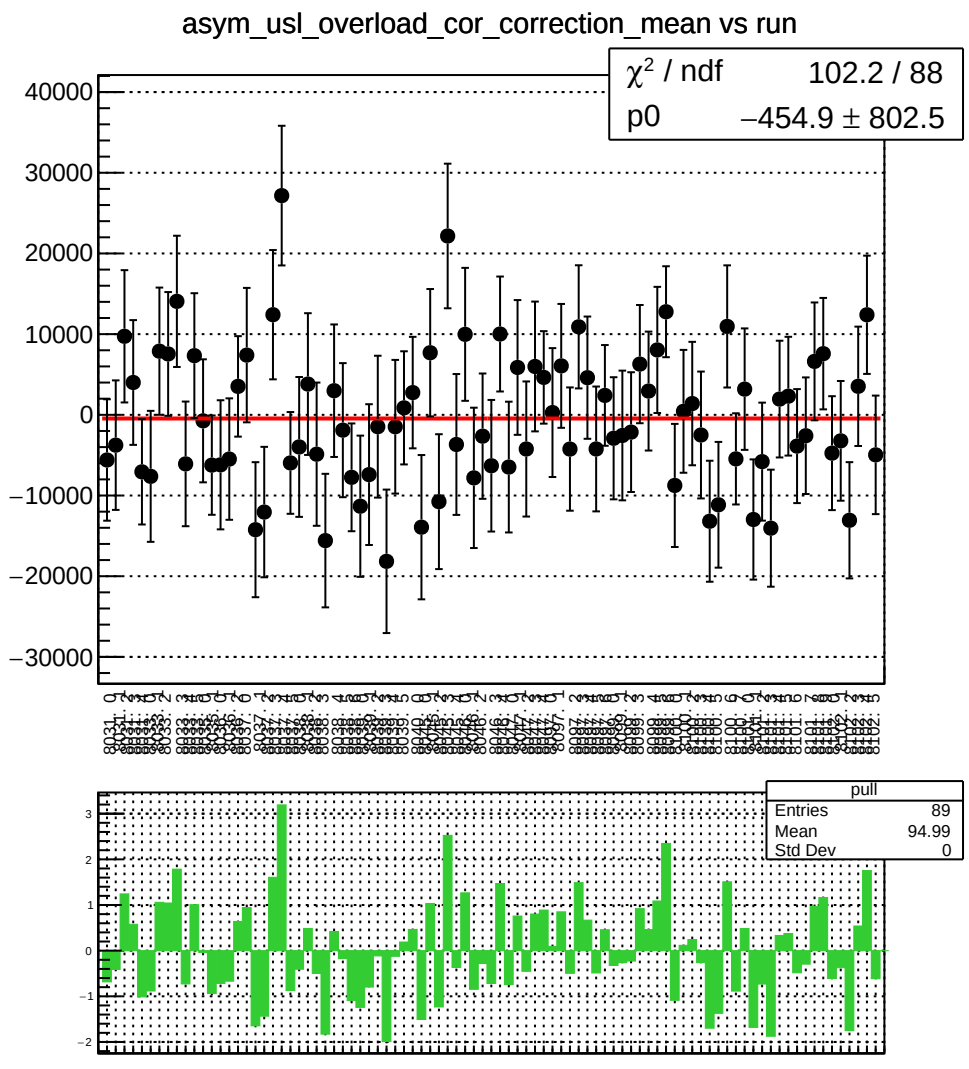

pull1D
Entries 89
Mean −0.007098
Std Dev 1.082
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

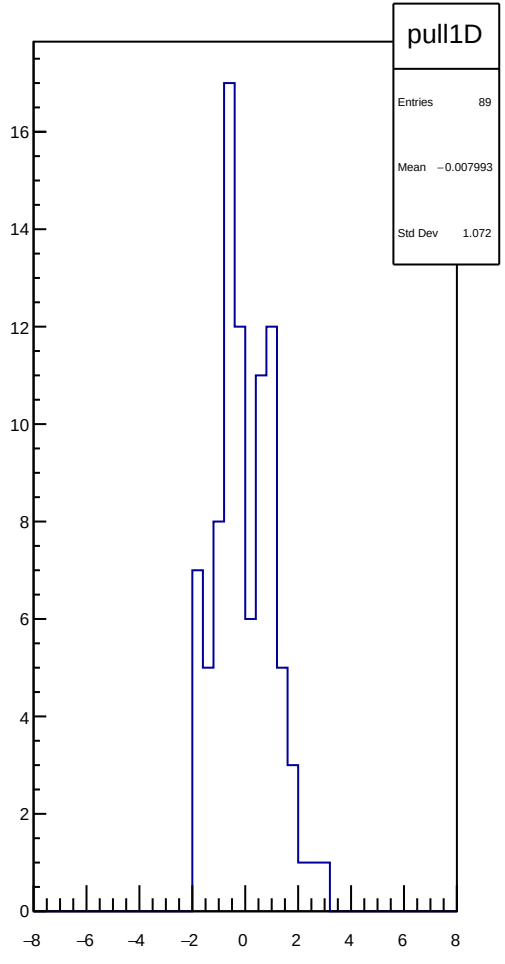

asym_usl_cor_correction_rms vs run
χ² / ndf 7629 / 88
p0 747.7 ± 0.5669
900
850
800
750
700
650

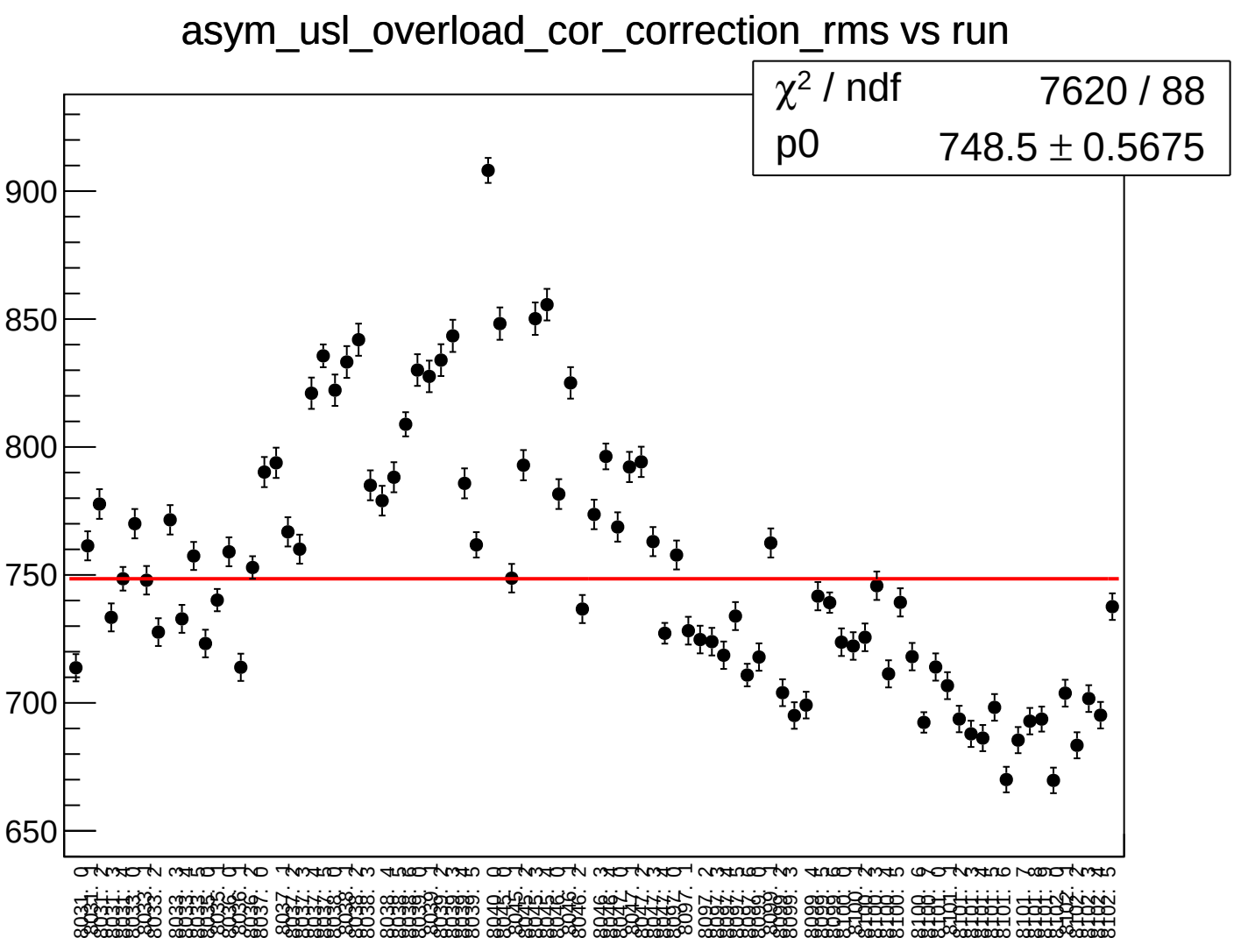

overload_cor_asym_usl_mean vs run
χ² / ndf 92.12 / 88
p0 3051 ± 1154
pull
Entries 89
Mean −91.29
Std Dev 0

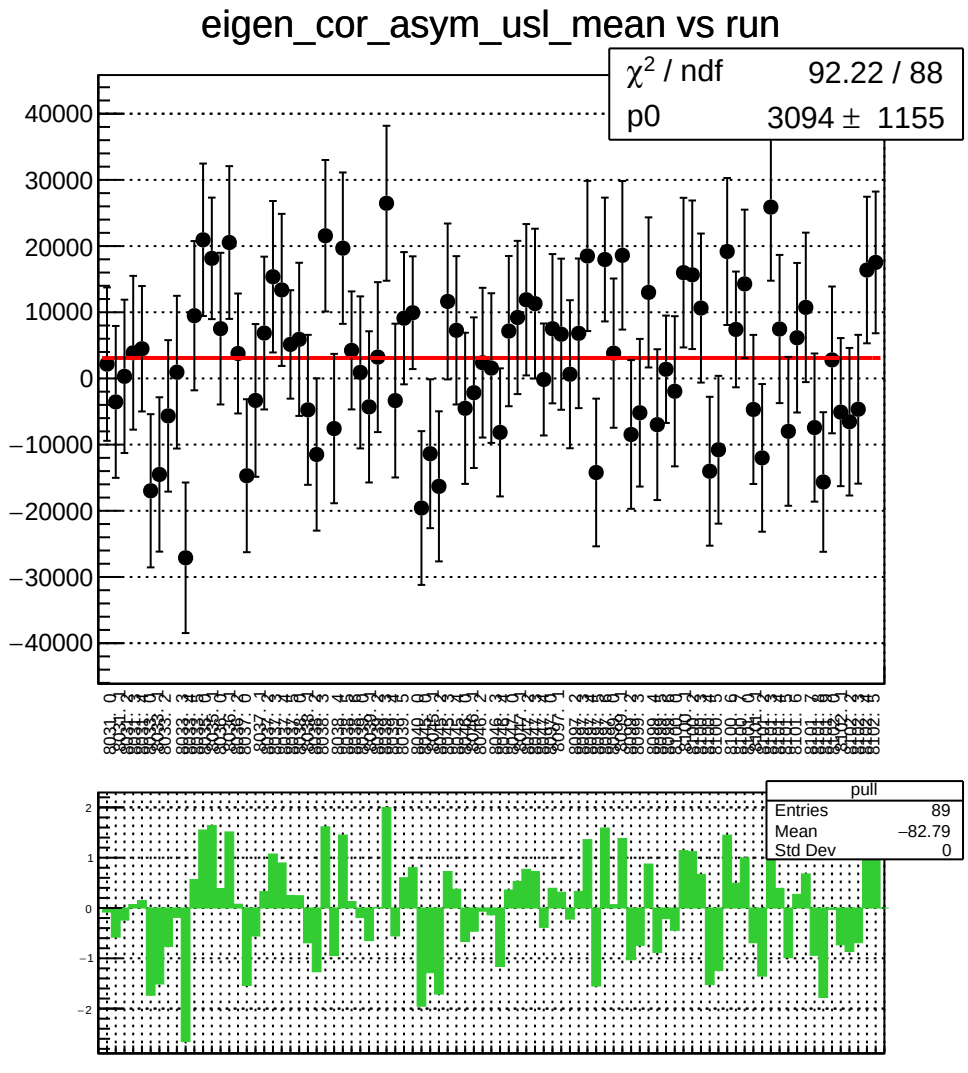

pull1D
Entries 89
Mean −0.01078
Std Dev 1.017

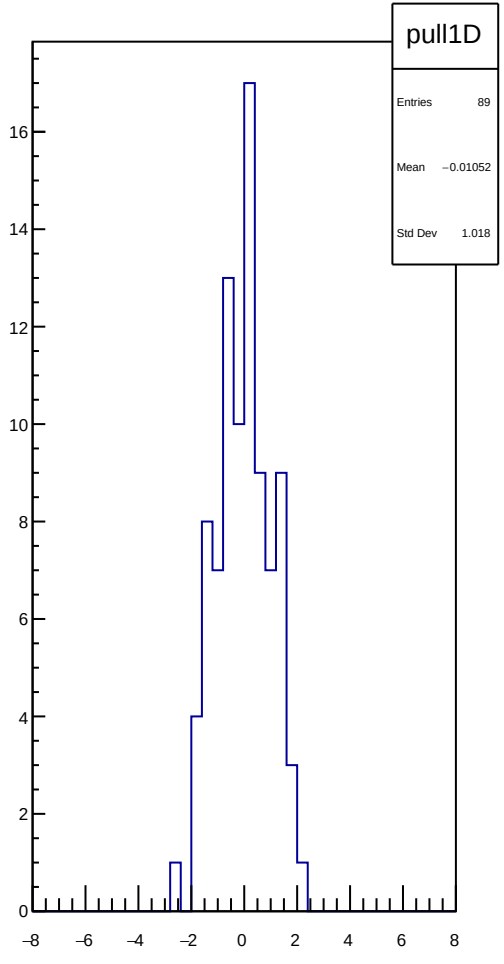

overload_cor_asym_usl_rms vs run
χ² / ndf 372 / 88
p0 1079 ± 0.8163
1130
1120
1110
1100
1090
1080
1070
1060
1050
1040

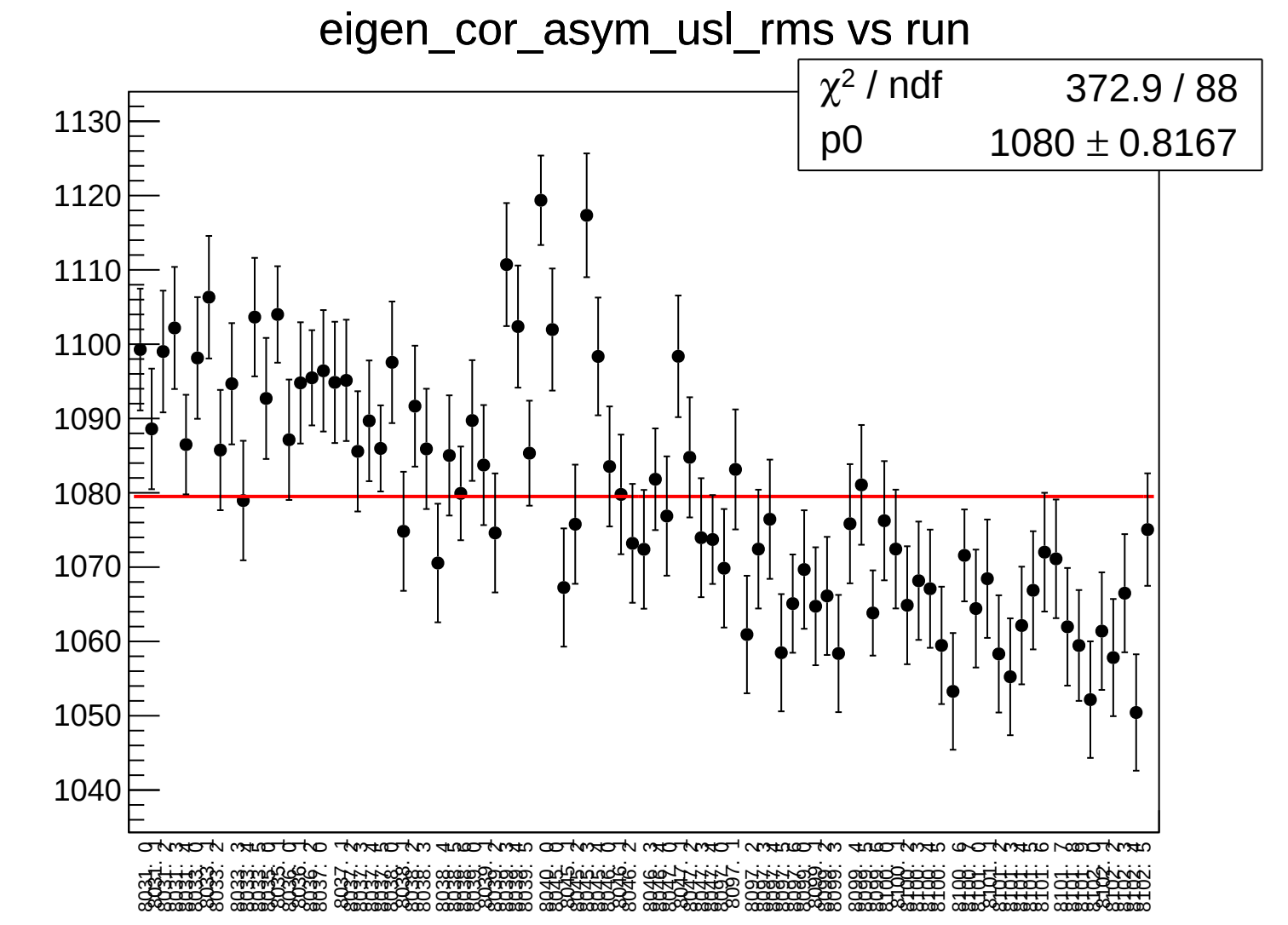

asym_usl_overload_cor_correction_mean vs run
χ² / ndf 102.2 / 88
p0 −454.9 ± 802.5
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 94.99
Std Dev 0
3
2
1
0
−1
−2

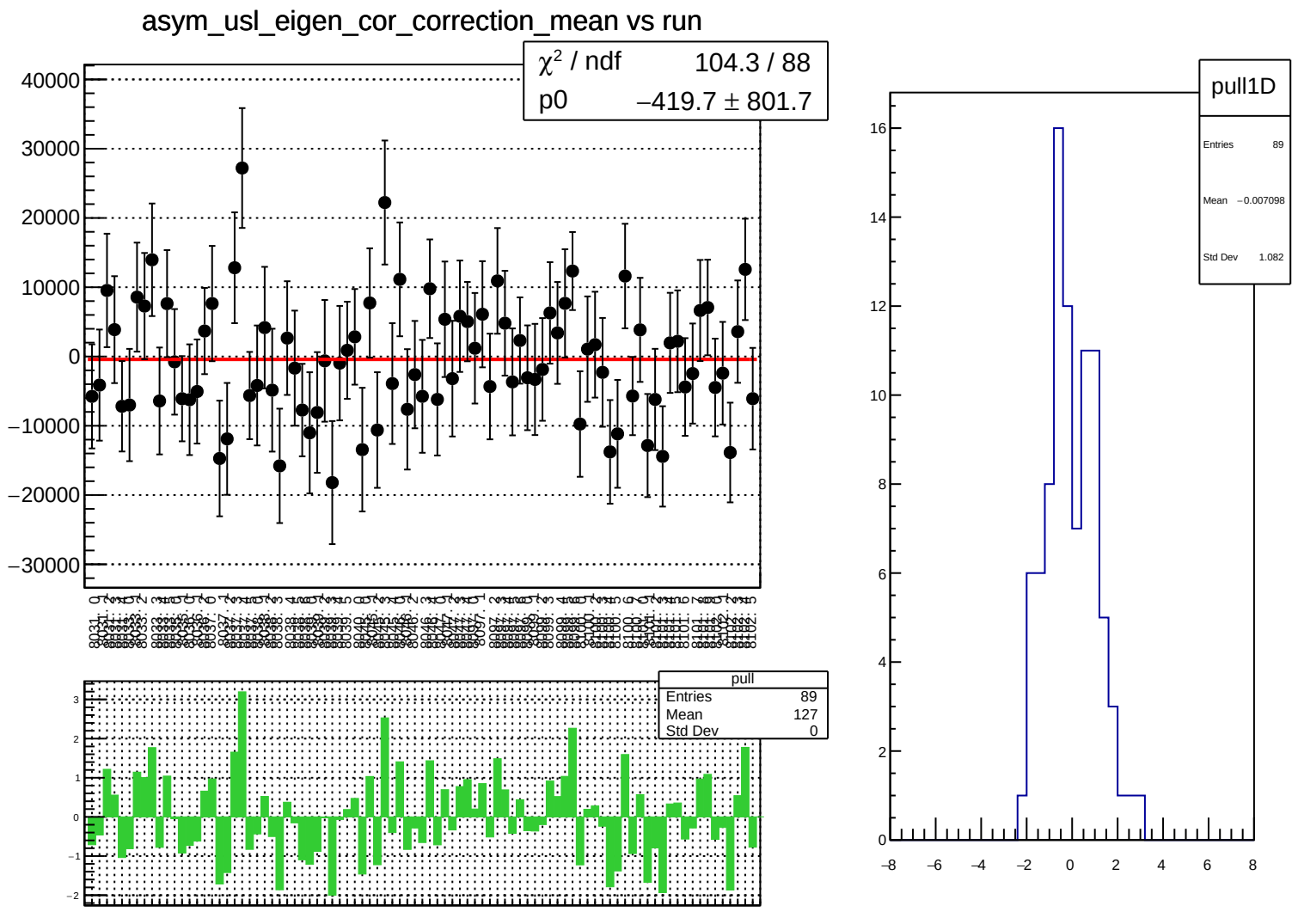

pull1D
Entries 89
Mean −0.007993
Std Dev 1.072
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

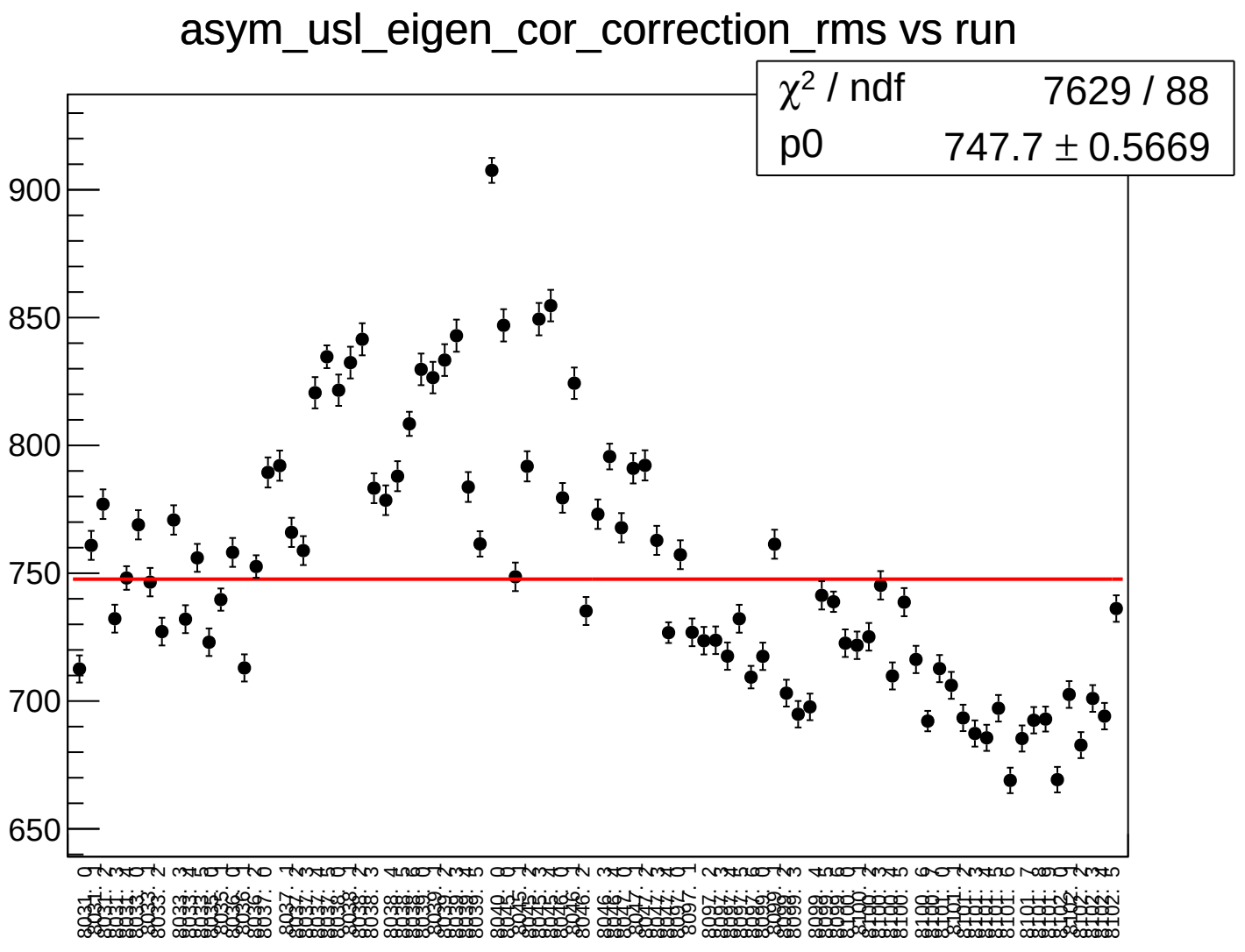

asym_usl_overload_cor_correction_rms vs run
χ² / ndf 7620 / 88
p0 748.5 ± 0.5675
900
850
800
750
700
650

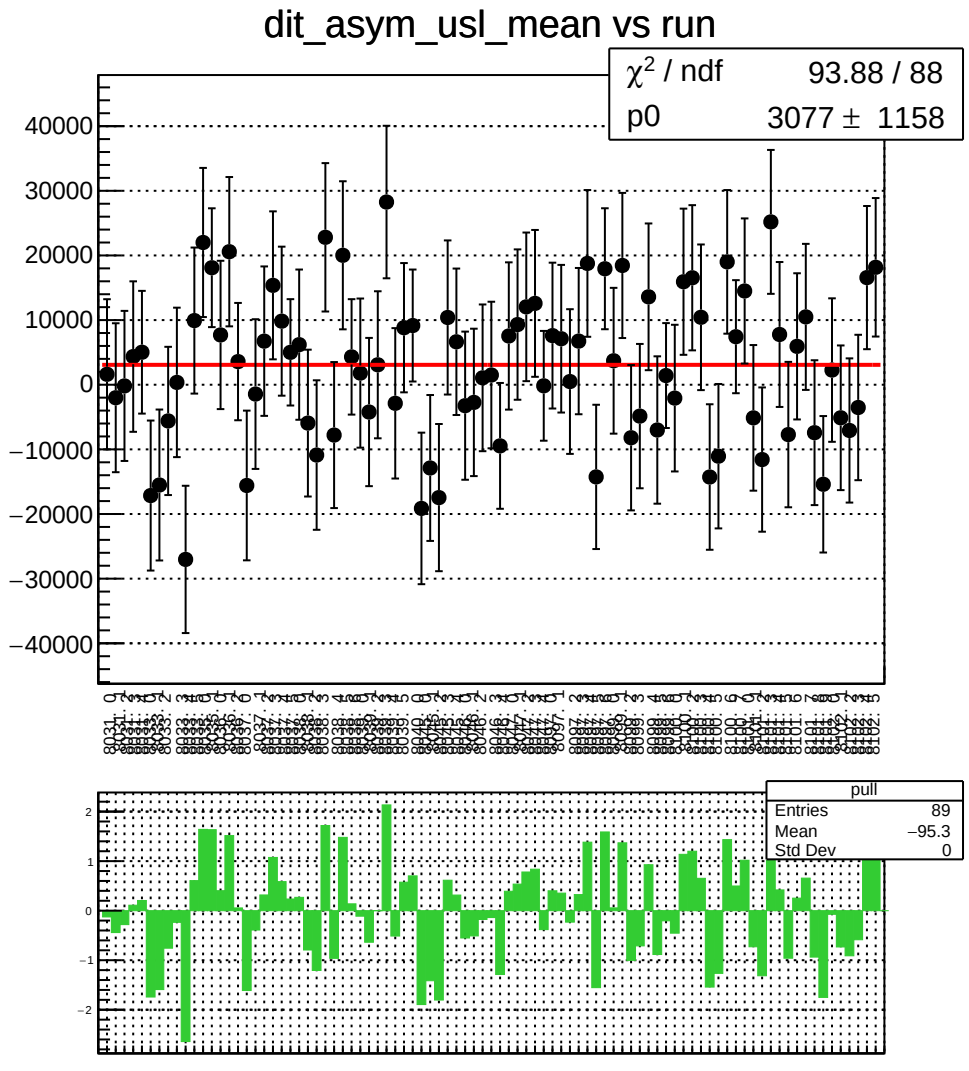

eigen_cor_asym_usl_mean vs run
χ² / ndf 92.22 / 88
p0 3094 ± 1155
pull
Entries 89
Mean −82.79
Std Dev 0

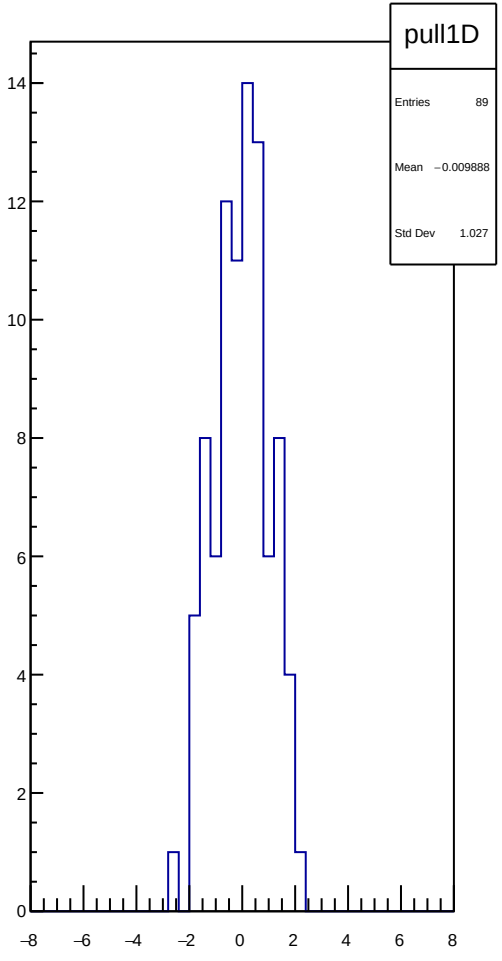

pull1D
Entries 89
Mean −0.01052
Std Dev 1.018

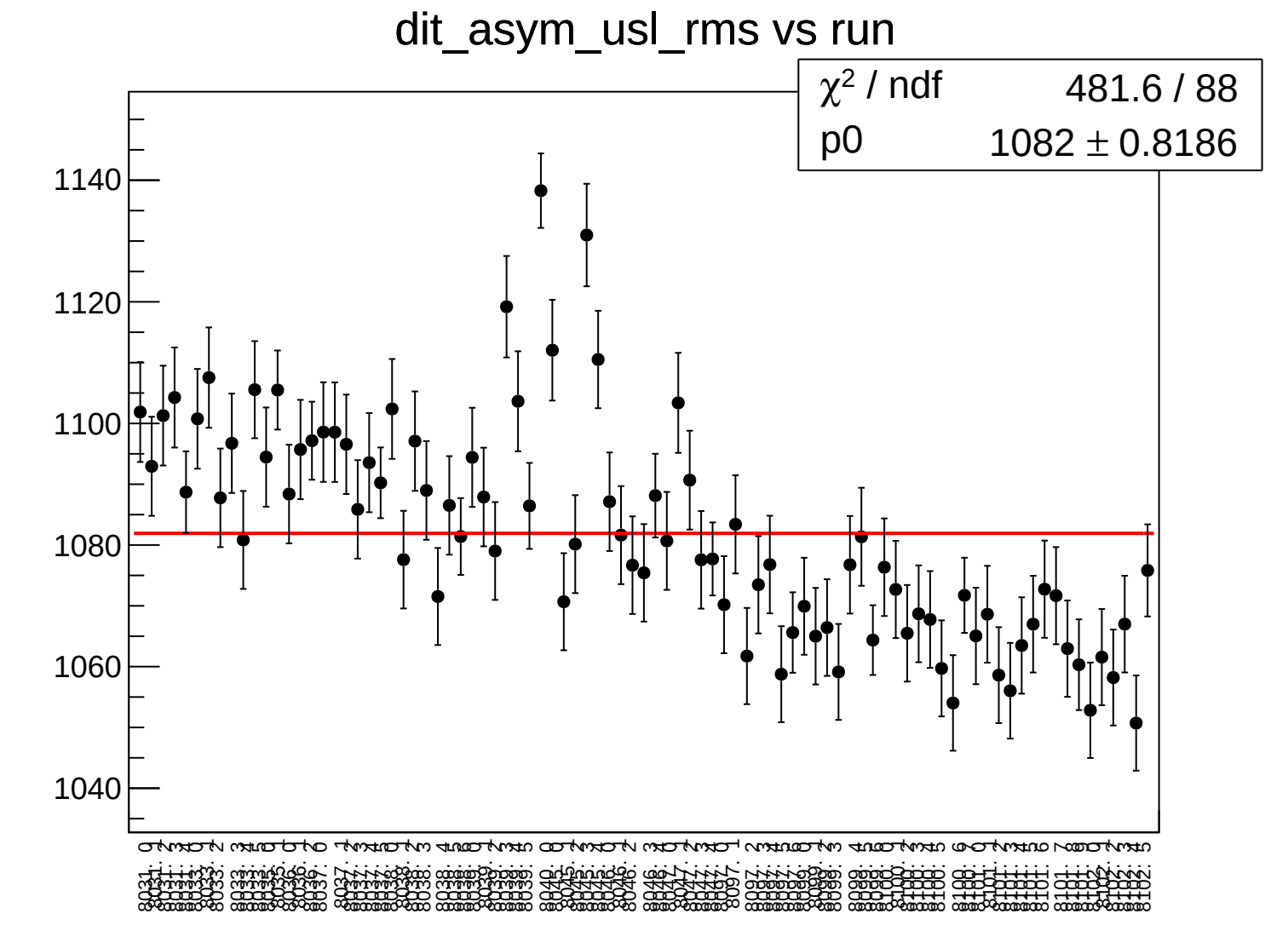

eigen_cor_asym_usl_rms vs run
χ² / ndf 372.9 / 88
p0 1080 ± 0.8167
1130
1120
1110
1100
1090
1080
1070
1060
1050
1040

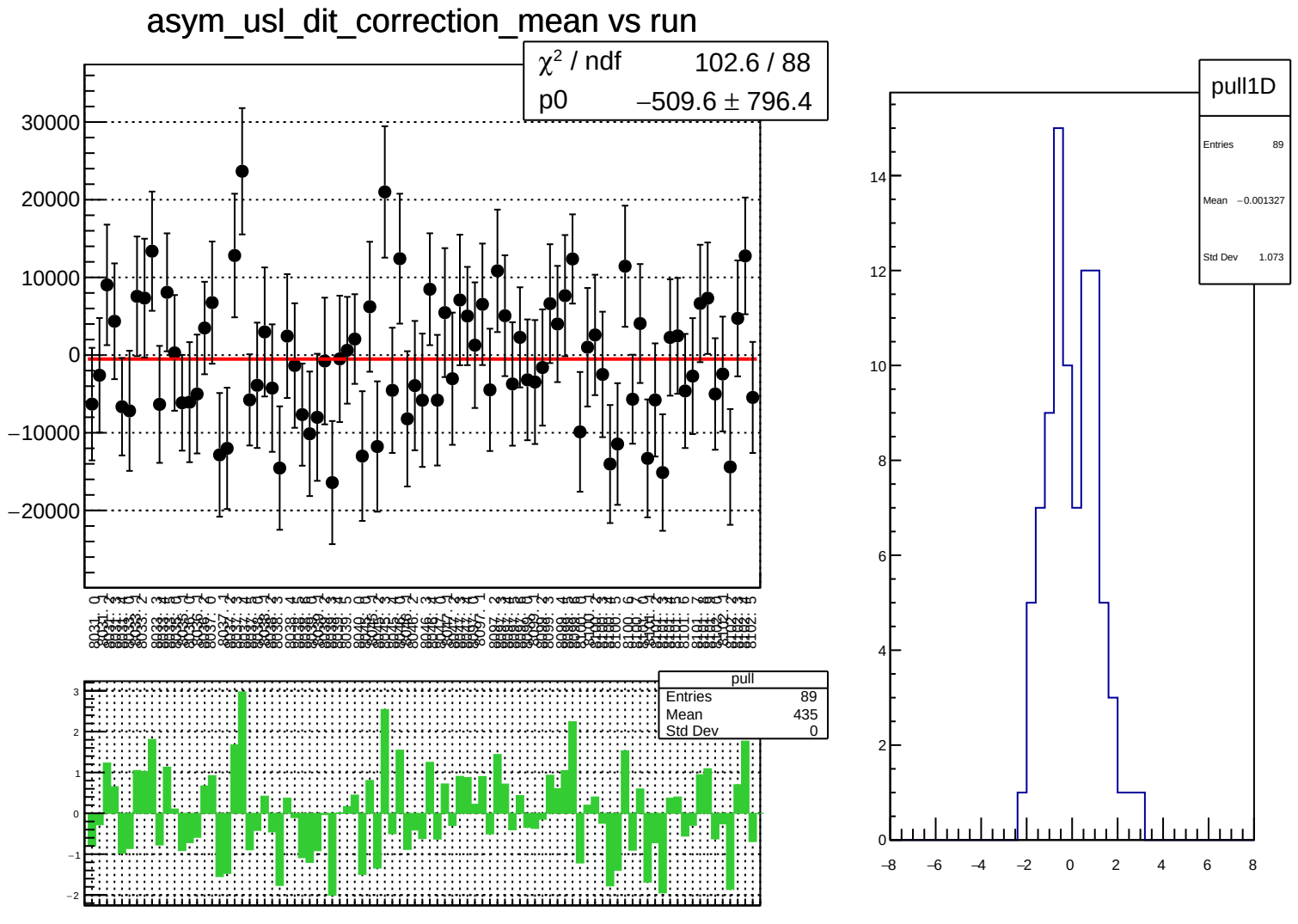

asym_usl_eigen_cor_correction_mean vs run
χ² / ndf 104.3 / 88
p0 −419.7 ± 801.7
pull
Entries 89
Mean 127
Std Dev 0
pull1D
Entries 89
Mean −0.007098
Std Dev 1.082

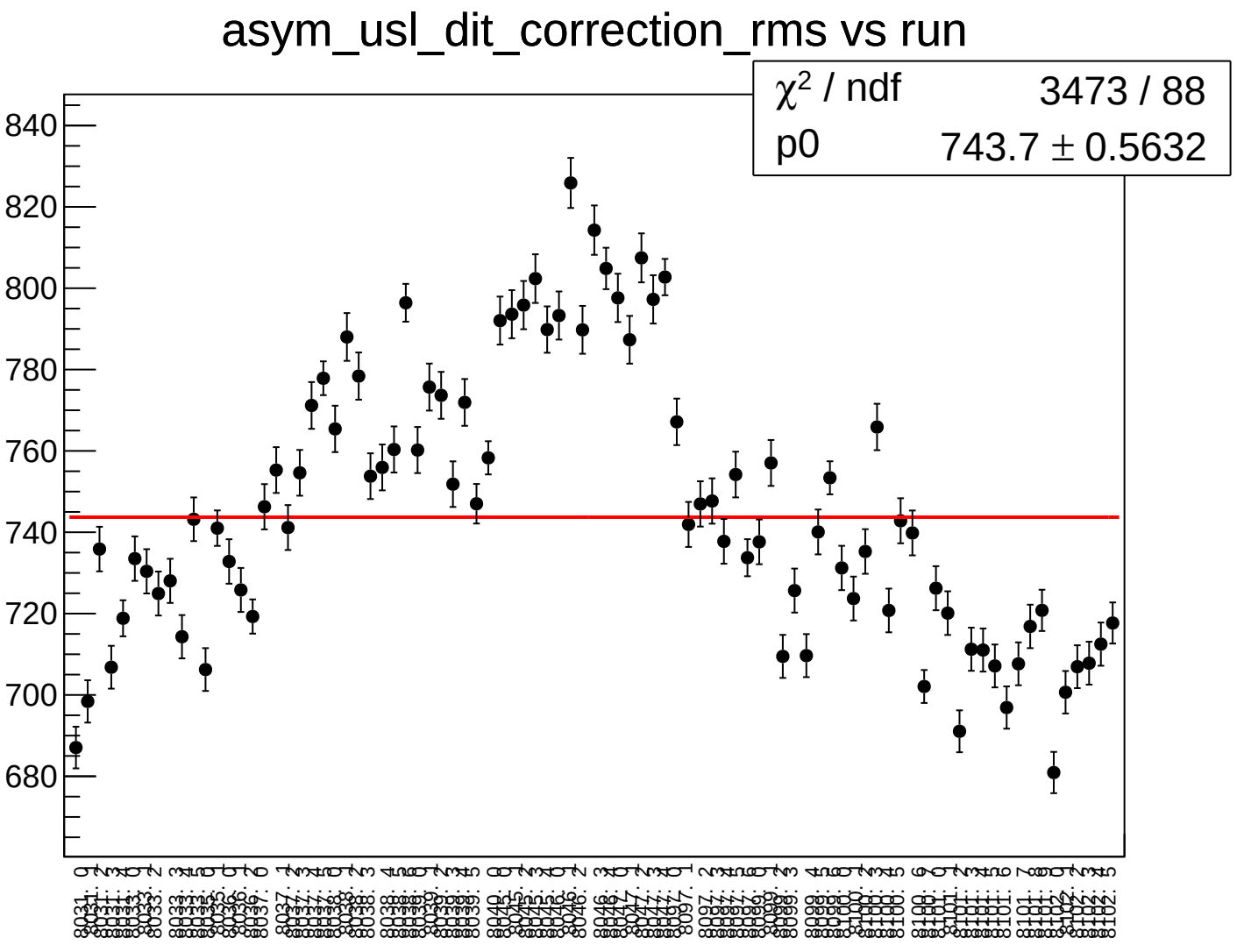

asym_usl_eigen_cor_correction_rms vs run
χ² / ndf 7629 / 88
p0 747.7 ± 0.5669
900
850
800
750
700
650

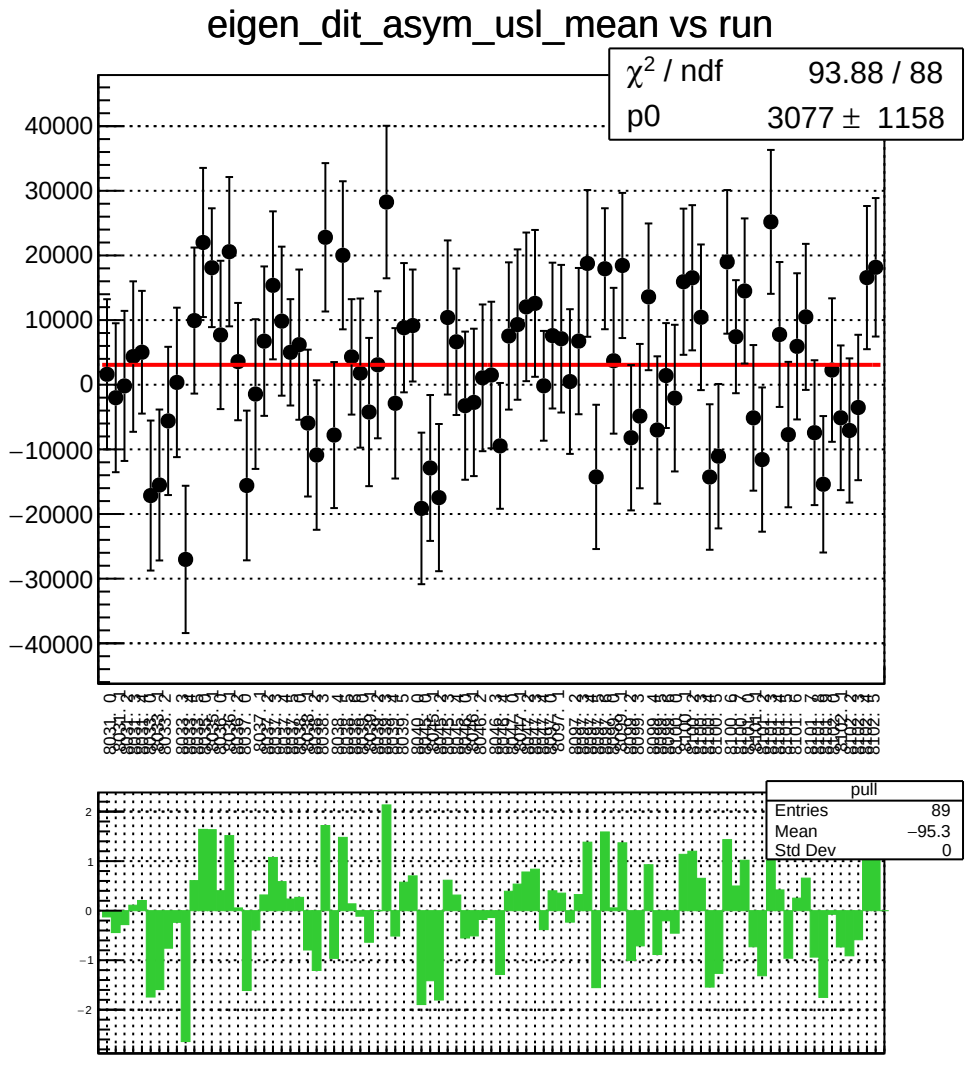

dit_asym_usl_mean vs run
χ² / ndf 93.88 / 88
p0 3077 ± 1158
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean −95.3
Std Dev 0
2
1
0
−1
−2

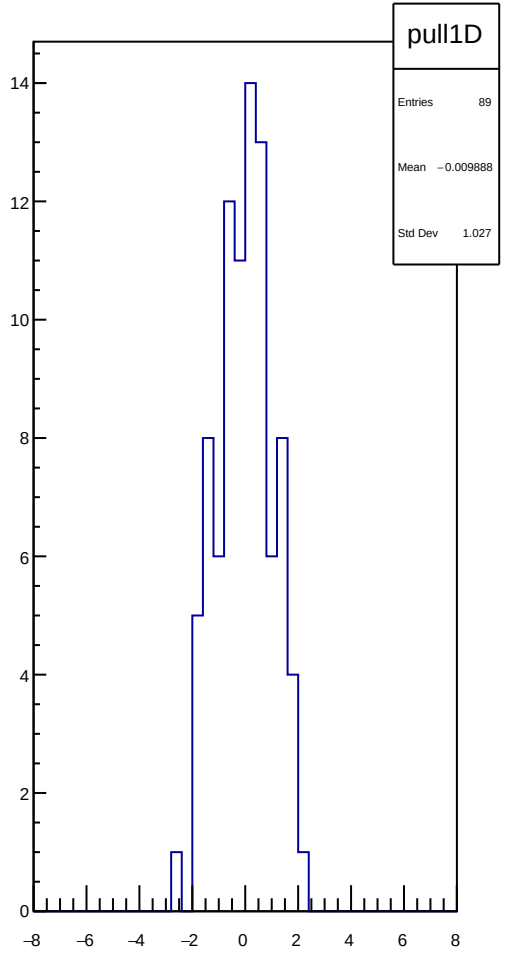

pull1D
Entries 89
Mean −0.009888
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

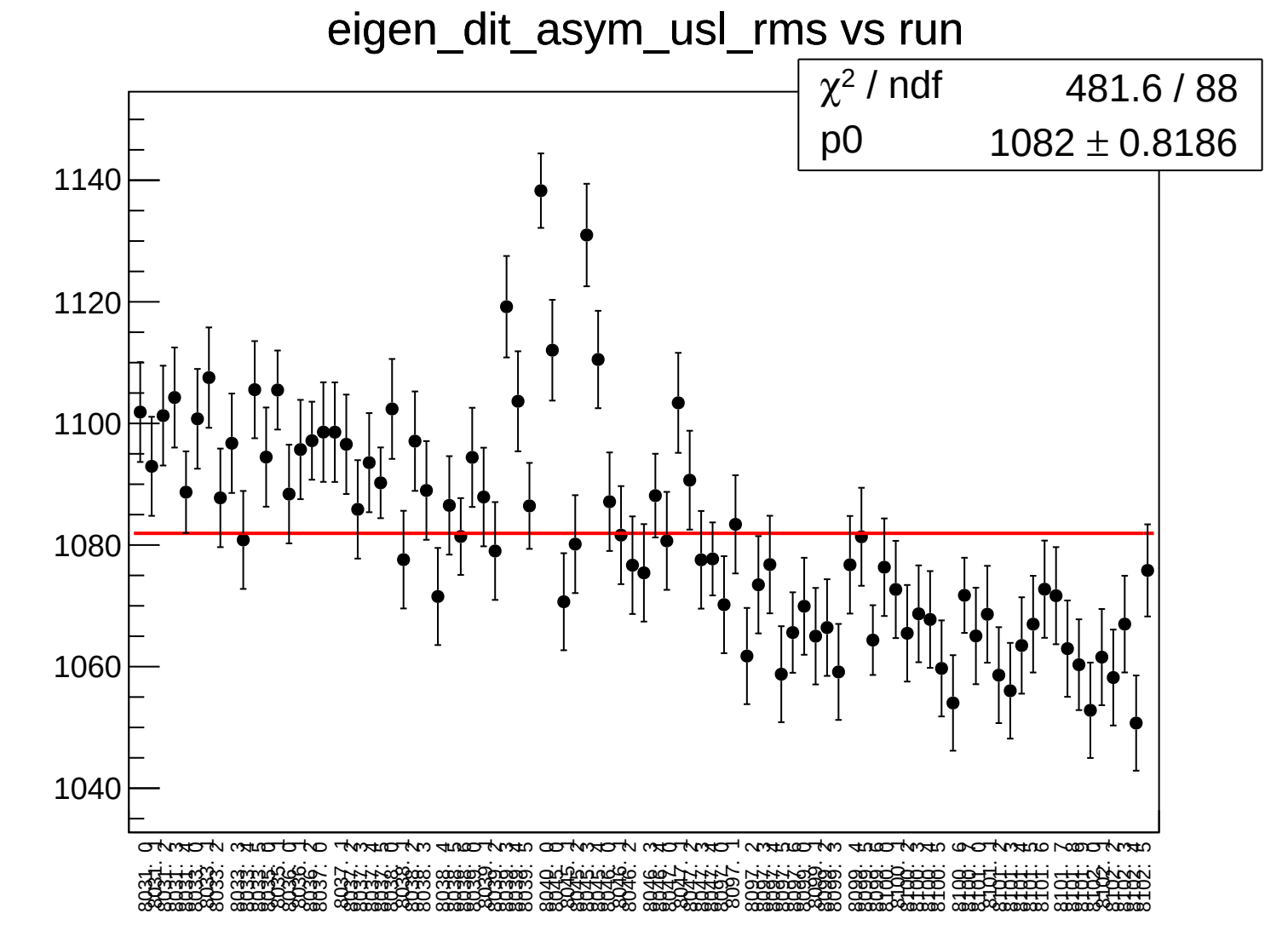

dit_asym_usl_rms vs run
χ² / ndf 481.6 / 88
p0 1082 ± 0.8186
1140
1120
1100
1080
1060
1040

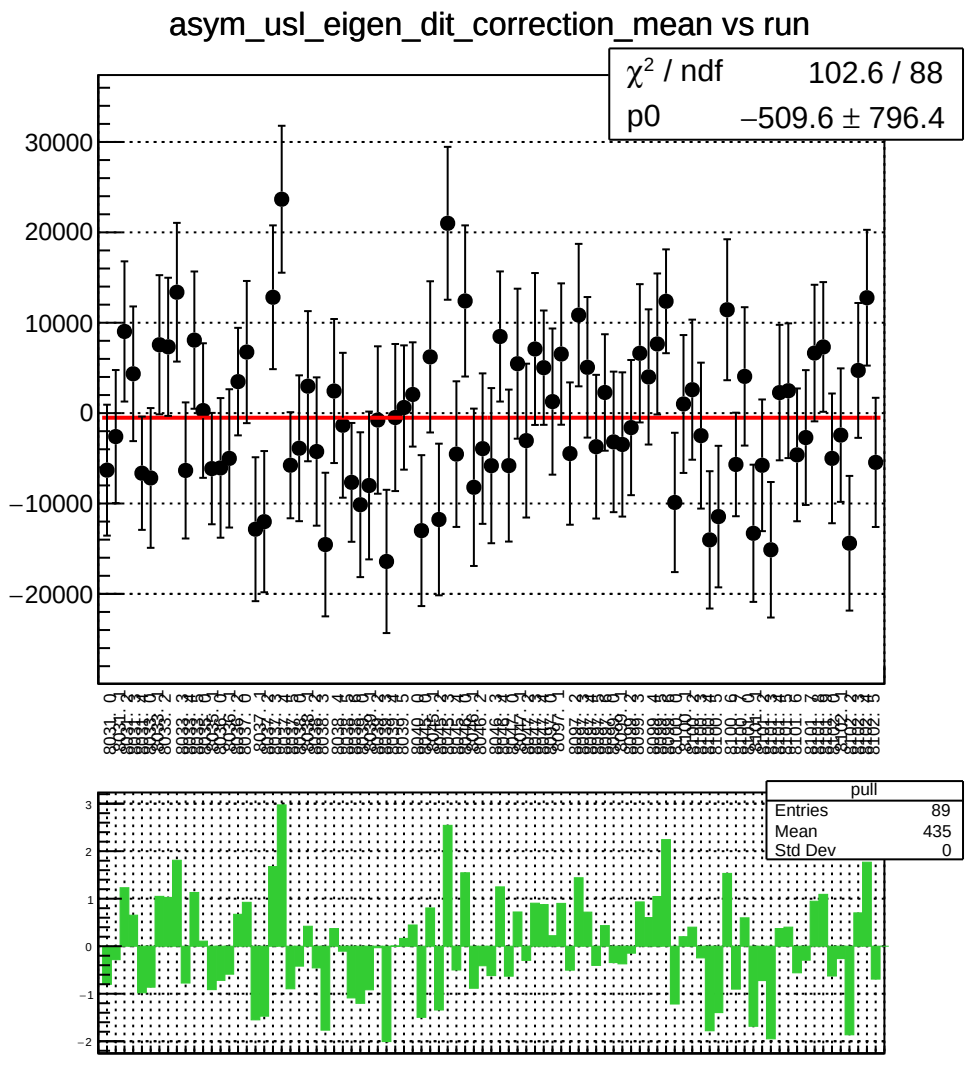

asym_usl_dit_correction_mean vs run
χ² / ndf 102.6 / 88
p0 −509.6 ± 796.4
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 435
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.001327
Std Dev 1.073
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

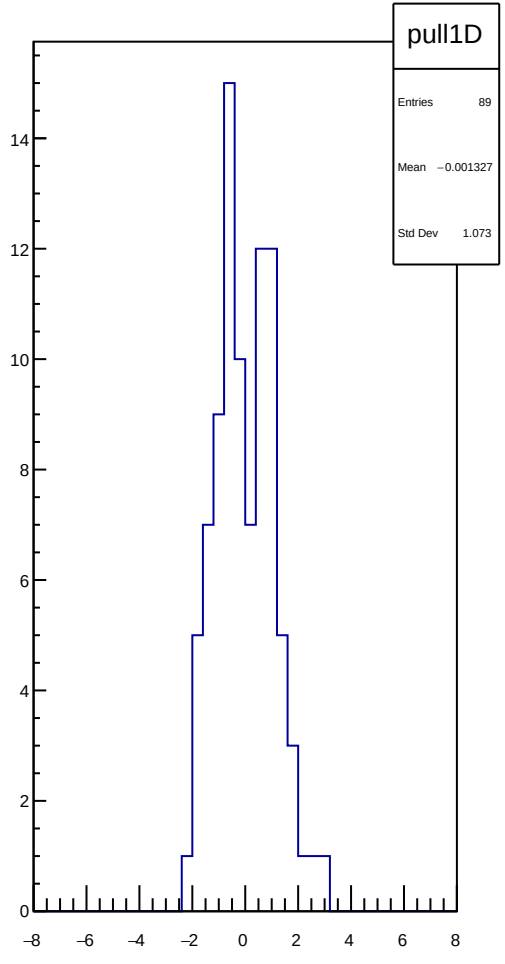

asym_usl_dit_correction_rms vs run
χ² / ndf 3473 / 88
p0 743.7 ± 0.5632
840
820
800
780
760
740
720
700
680

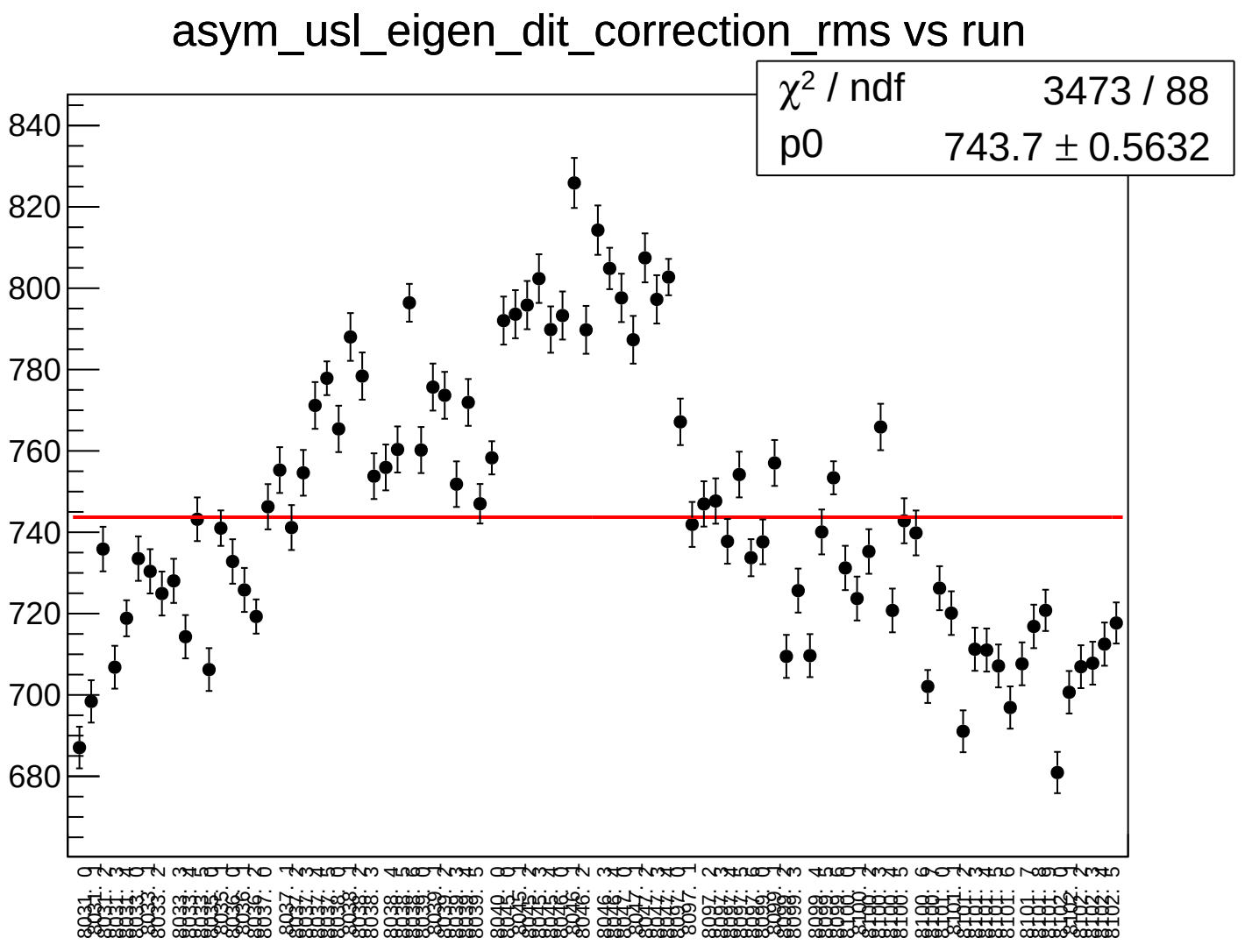

eigen_dit_asym_usl_mean vs run
χ² / ndf 93.88 / 88
p0 3077 ± 1158
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean −95.3
Std Dev 0
2
1
0
−1
−2

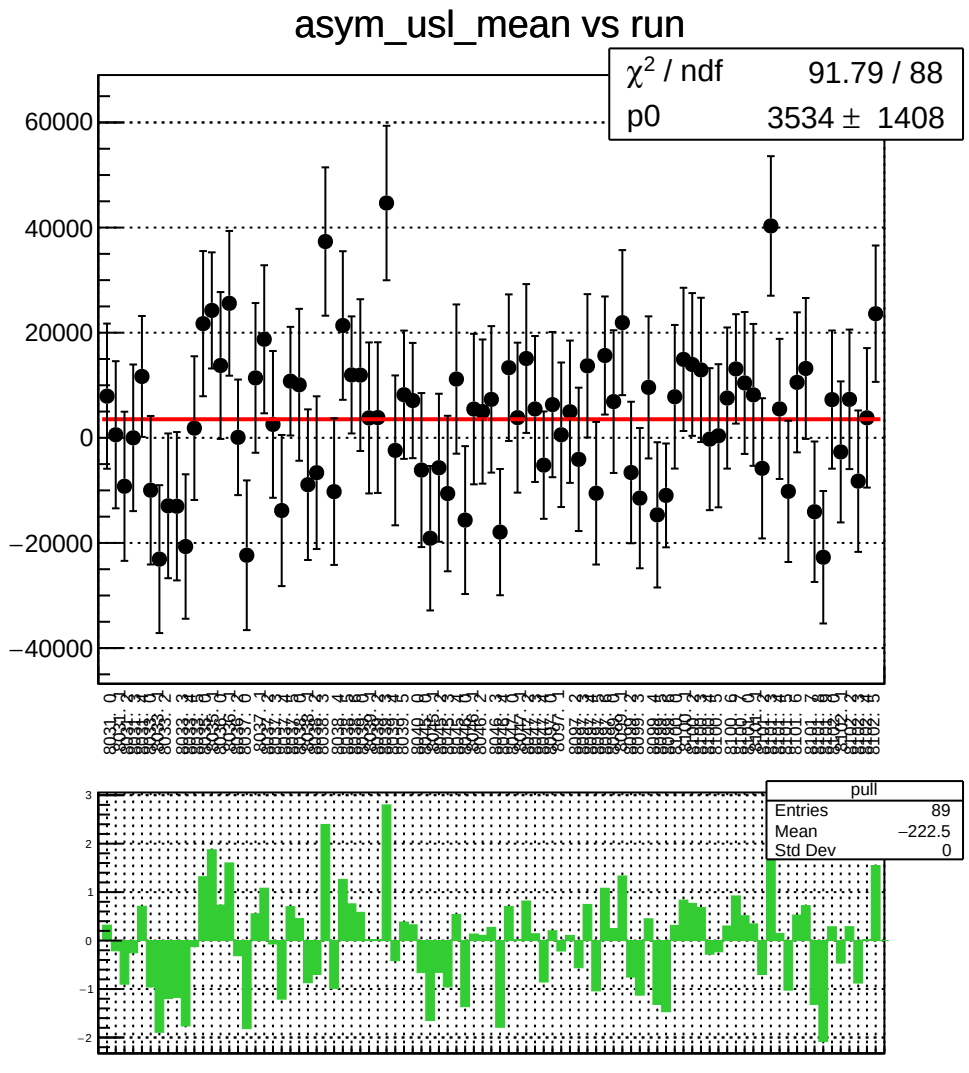

pull1D
Entries 89
Mean −0.009888
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

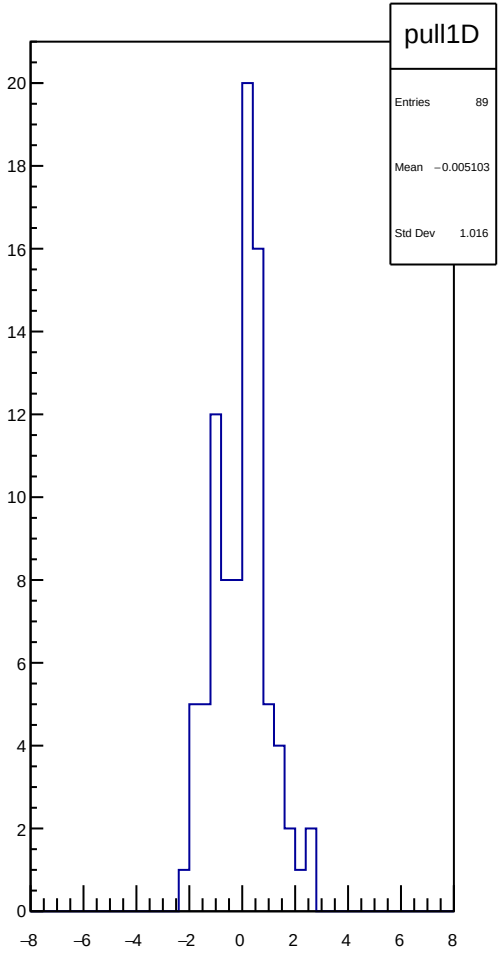

eigen_dit_asym_usl_rms vs run
χ² / ndf 481.6 / 88
p0 1082 ± 0.8186
1140
1120
1100
1080
1060
1040

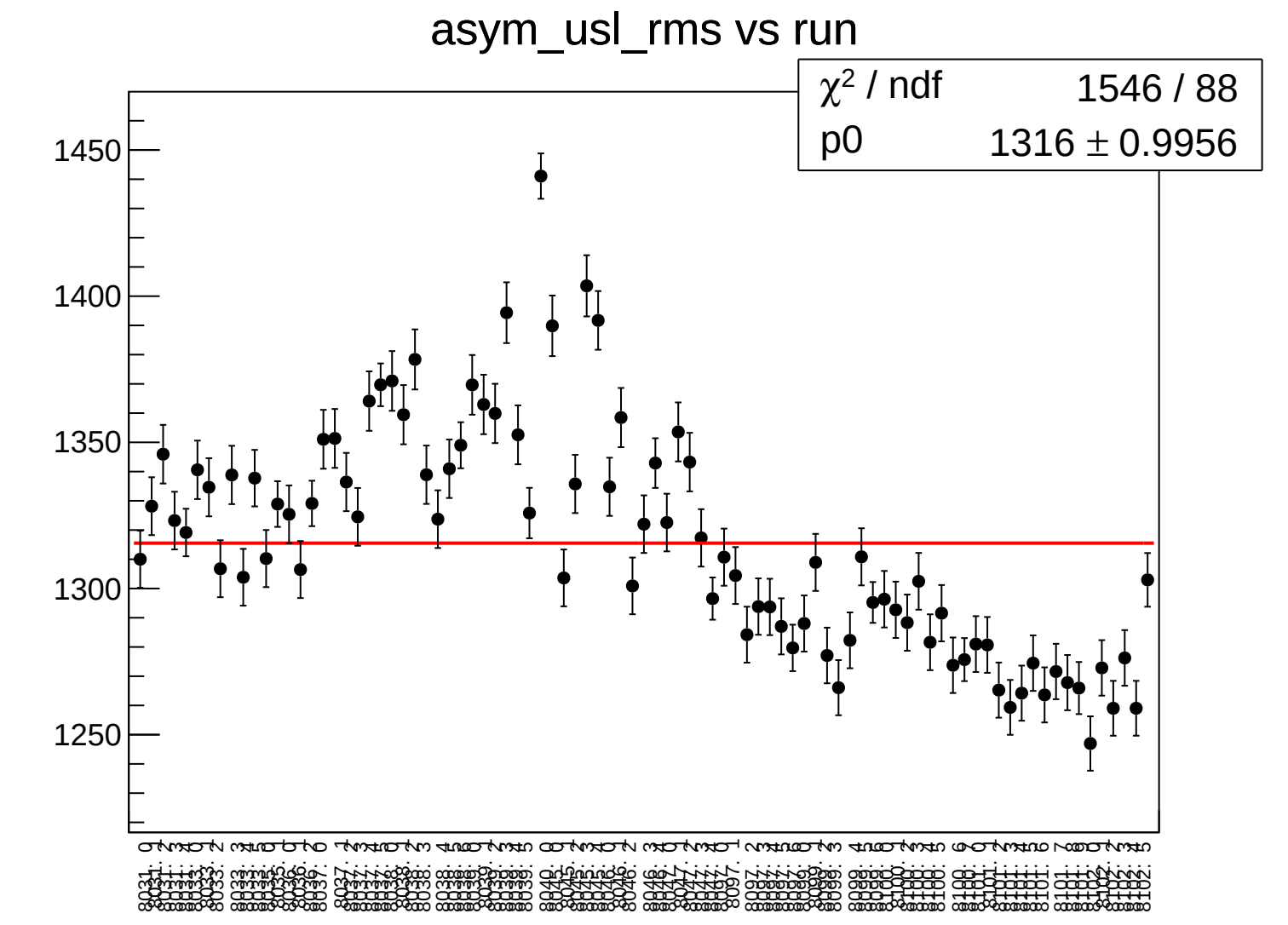

asym_usl_eigen_dit_correction_mean vs run
χ² / ndf 102.6 / 88
p0 −509.6 ± 796.4
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 435
Std Dev 0
3
2
1
0
−1
−2

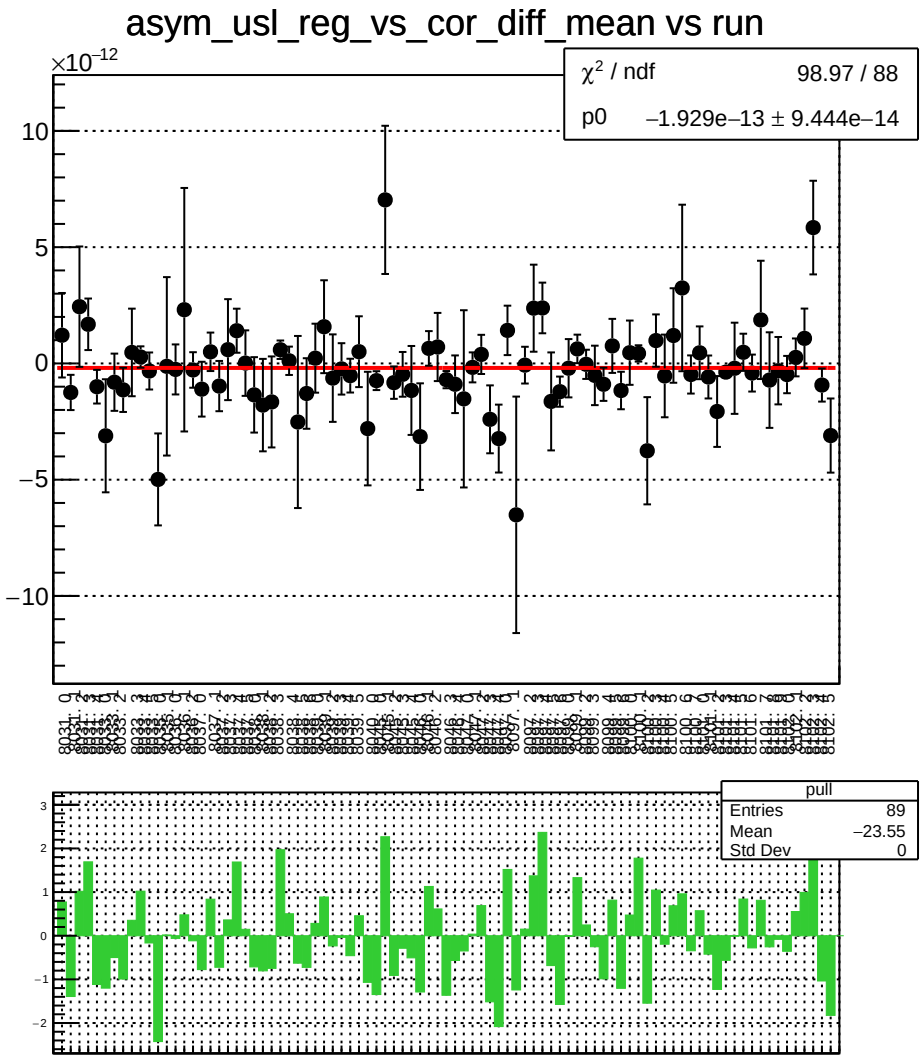

pull1D
Entries 89
Mean −0.001327
Std Dev 1.073
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

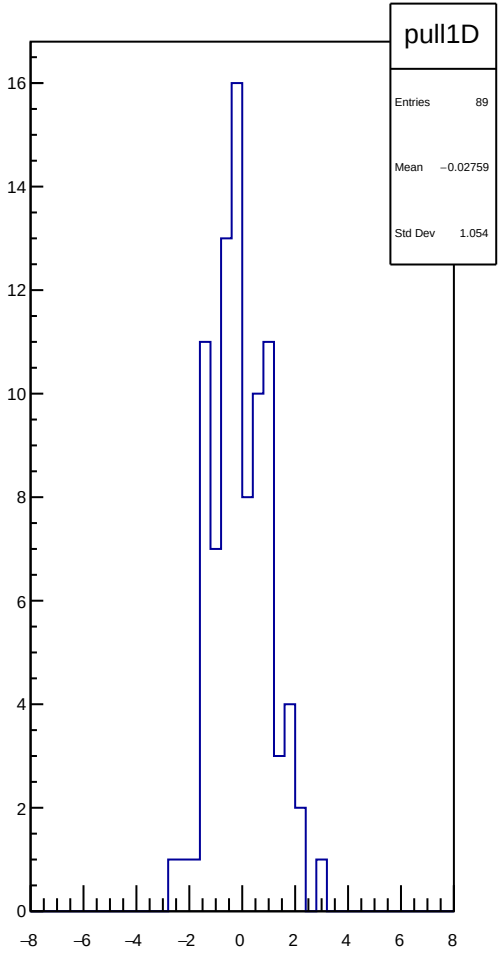

asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 3473 / 88
p0 743.7 ± 0.5632
840
820
800
780
760
740
720
700
680

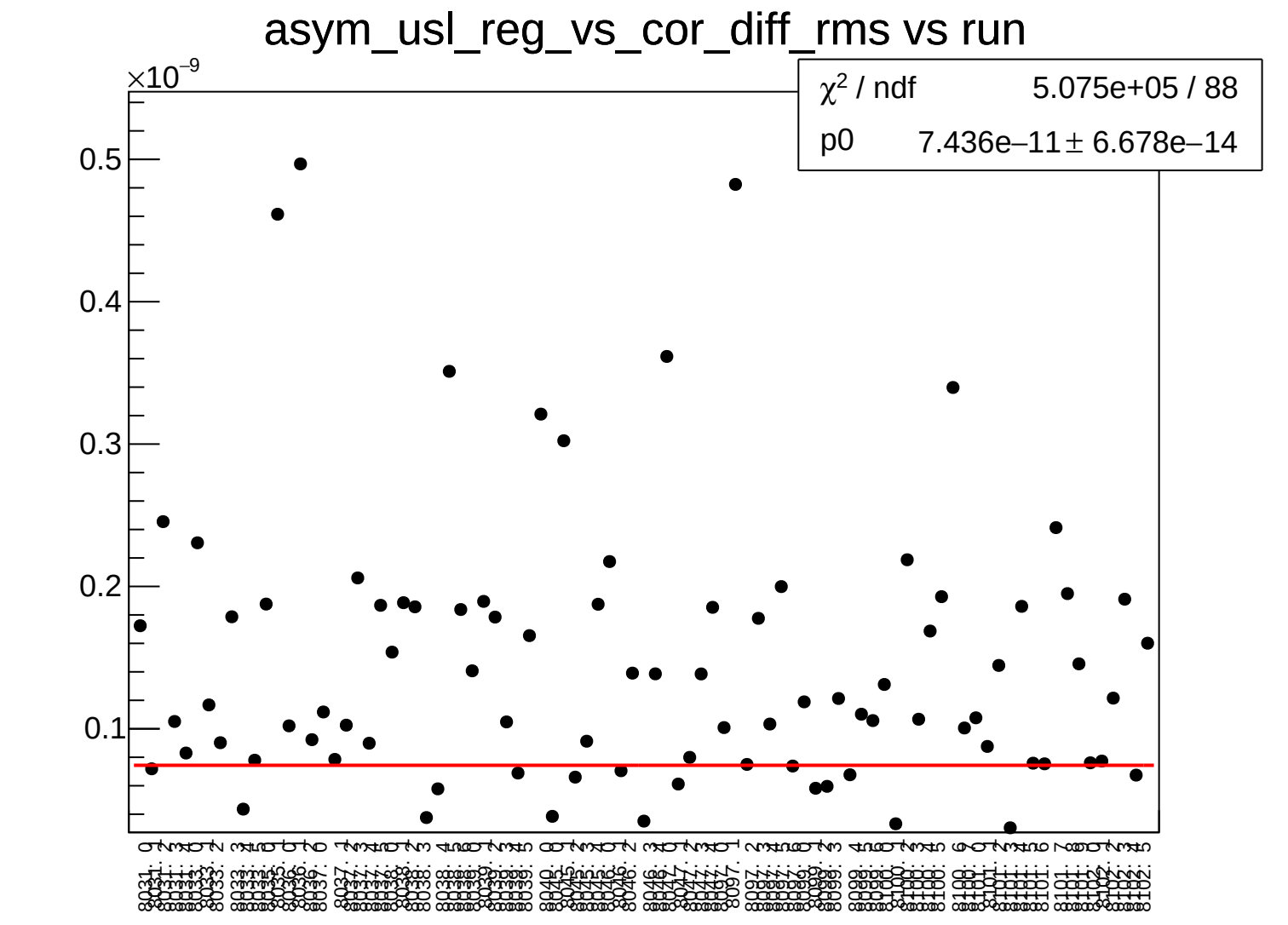

asym_usl_mean vs run
χ² / ndf 91.79 / 88
p0 3534 ± 1408
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −222.5
Std Dev 0
3
2
1
0
−1
−2

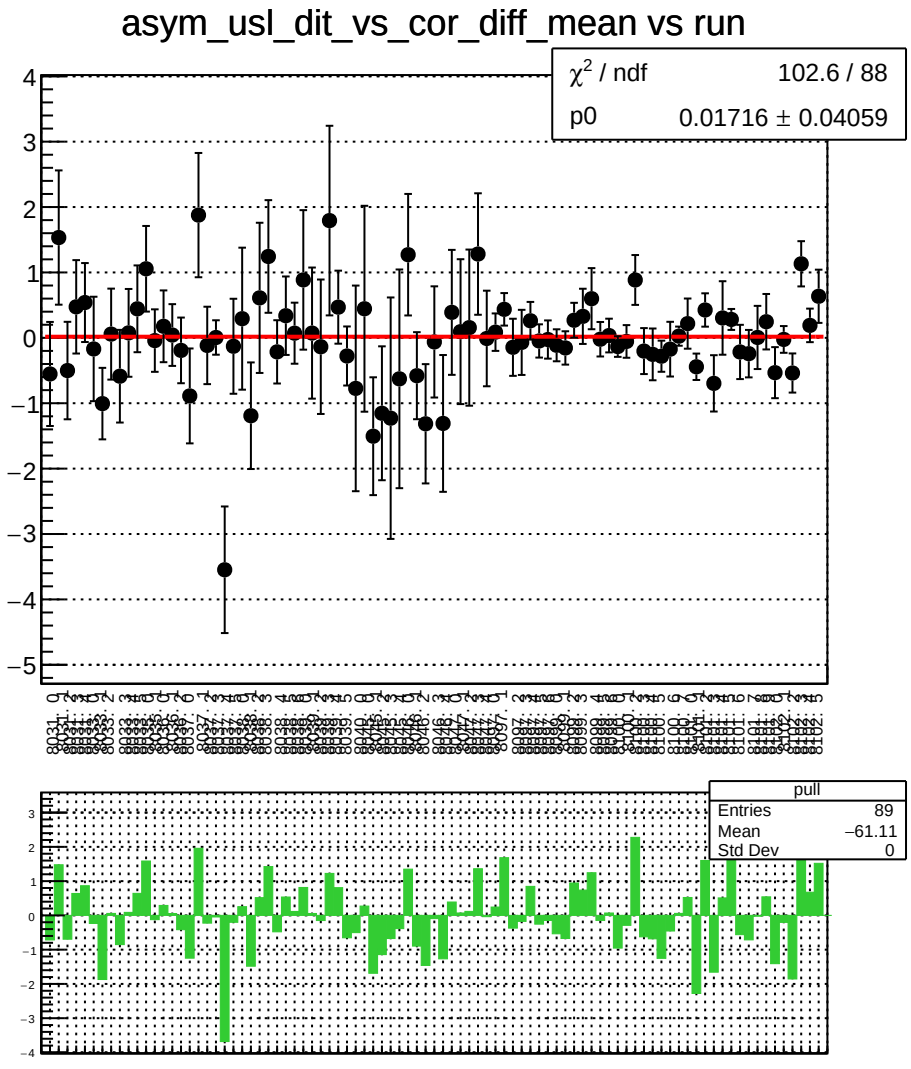

pull1D
Entries 89
Mean −0.005103
Std Dev 1.016
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

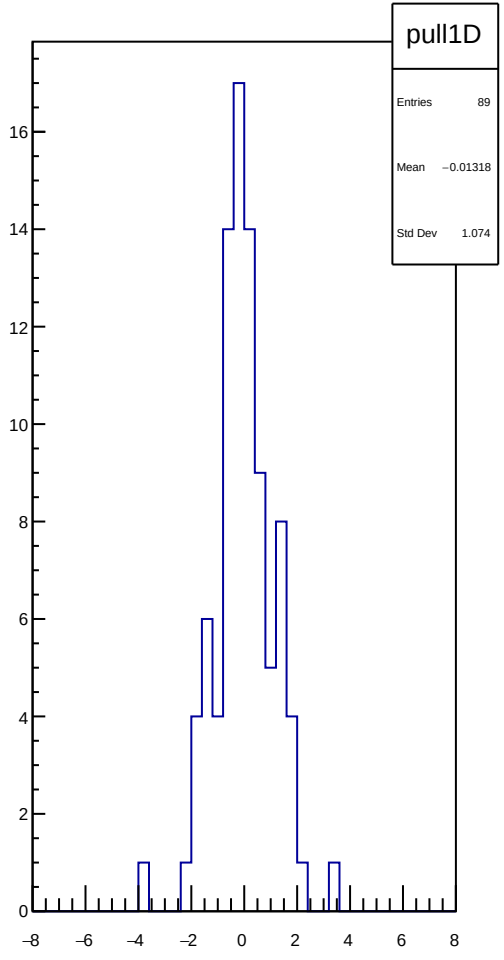

asym_usl_rms vs run
χ² / ndf 1546 / 88
p0 1316 ± 0.9956
1450
1400
1350
1300
1250

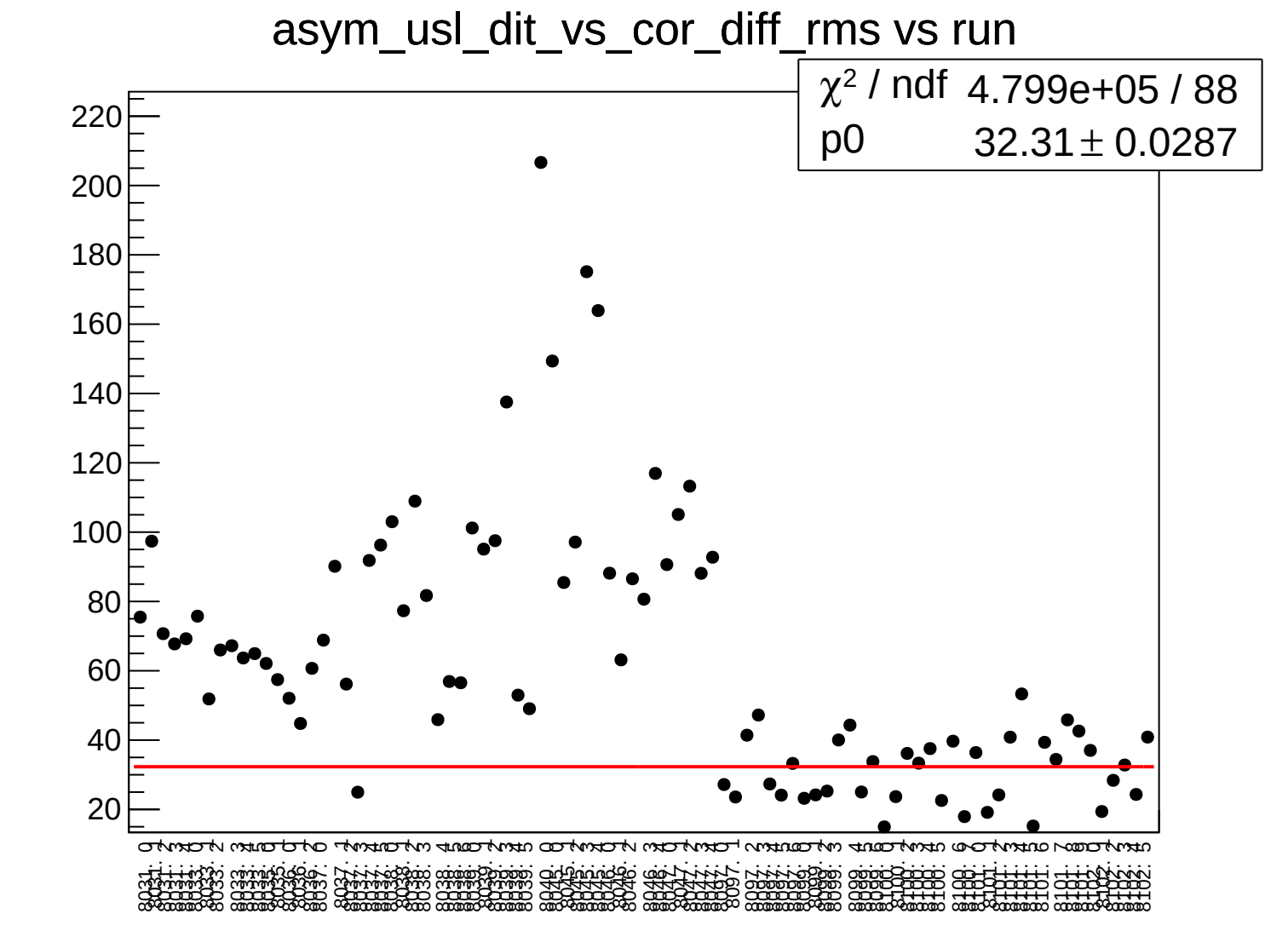

asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.97 / 88
p0 −1.929e−13 ± 9.444e−14
pull
Entries 89
Mean −23.55
Std Dev 0

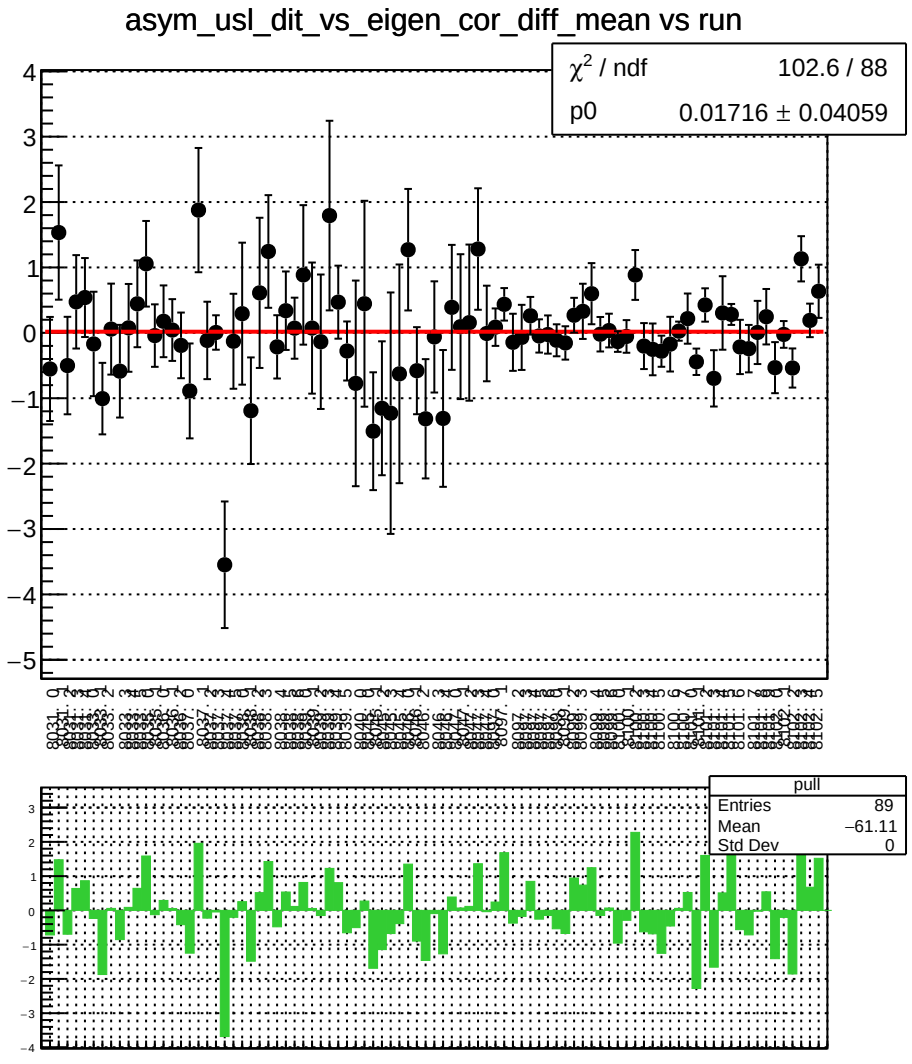

pull1D
Entries 89
Mean −0.02759
Std Dev 1.054

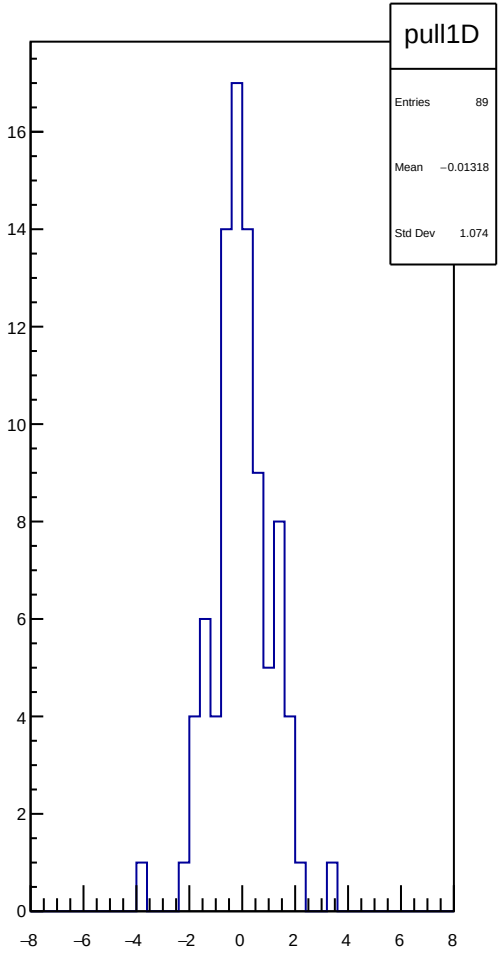

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.075e+05 / 88
p0 7.436e−11 ± 6.678e−14
0.5
0.4
0.3
0.2
0.1

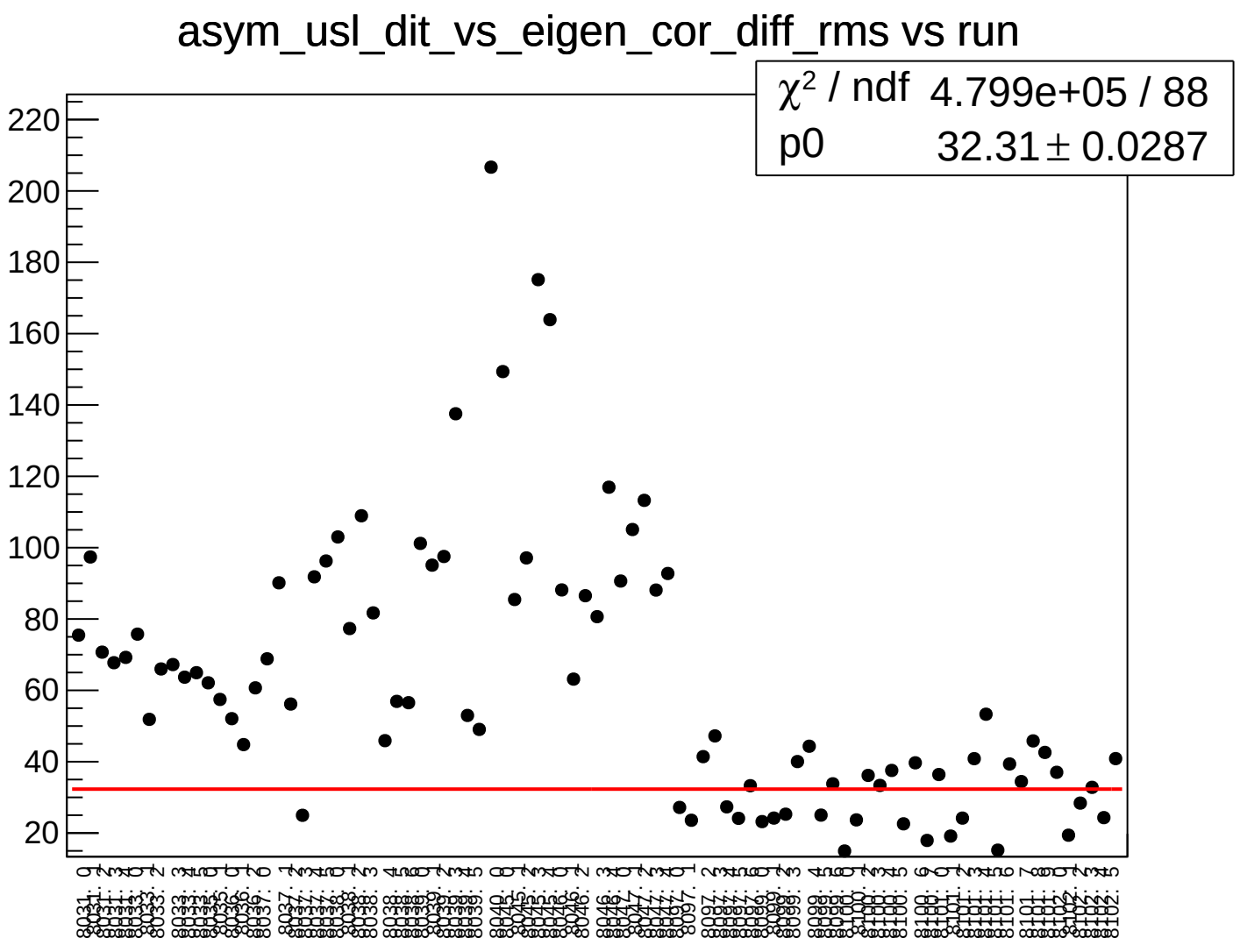

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 102.6 / 88
p0 0.01716 ± 0.04059
pull
Entries 89
Mean −61.11
Std Dev 0

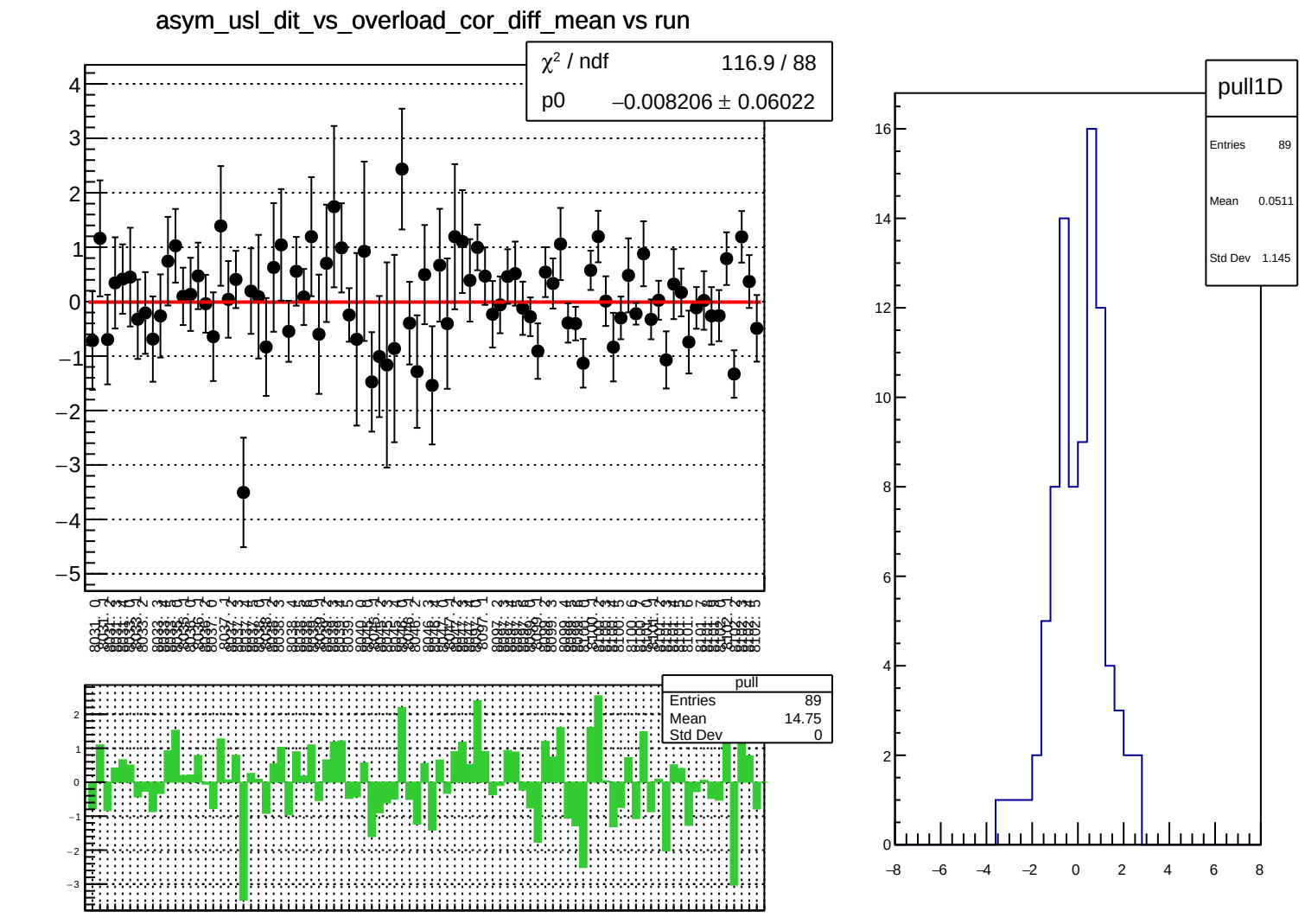

pull1D
Entries 89
Mean −0.01318
Std Dev 1.074

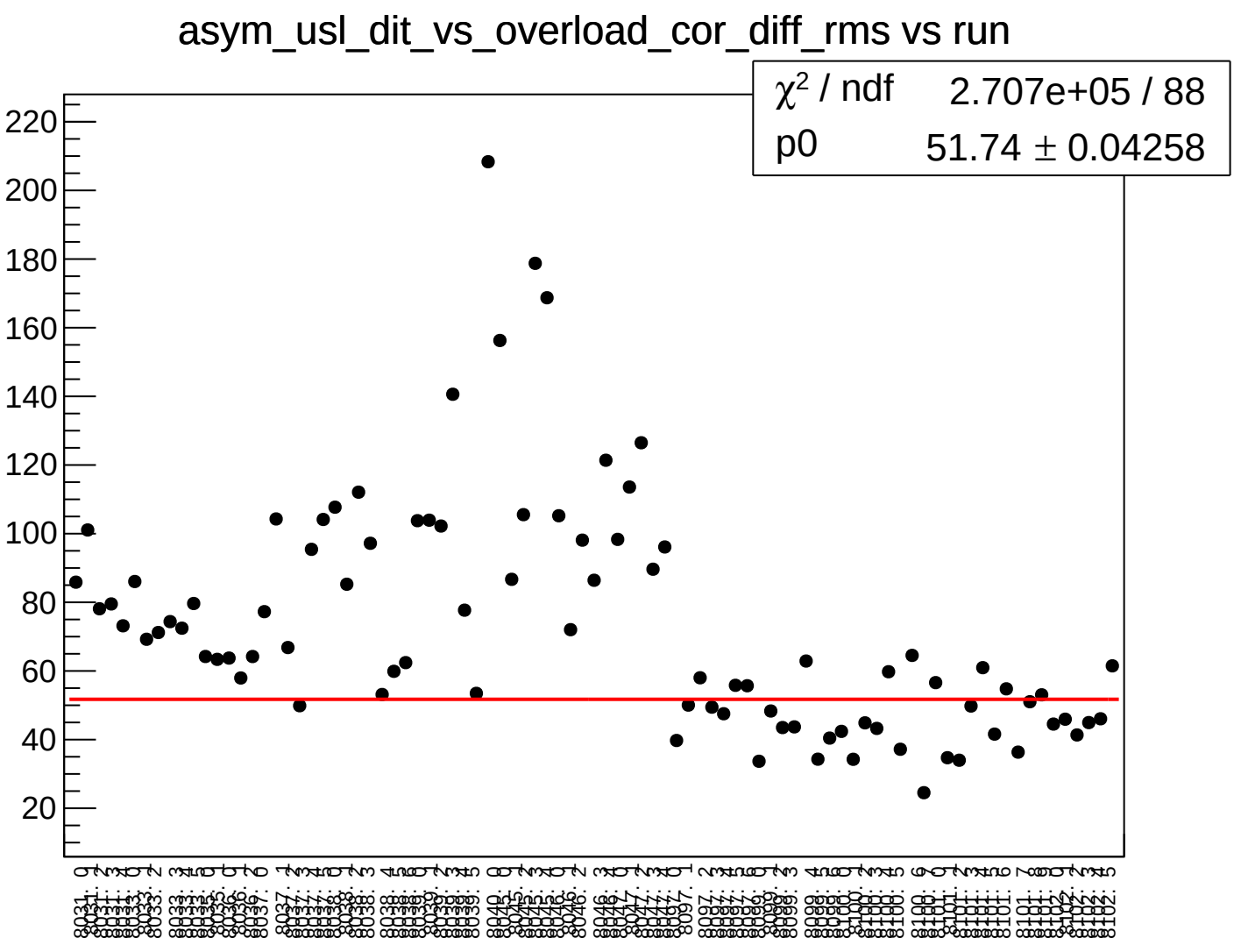

asym_usl_dit_vs_cor_diff_rms vs run
χ² / ndf 4.799e+05 / 88
p0 32.31 ± 0.0287
220
200
180
160
140
120
100
80
60
40
20

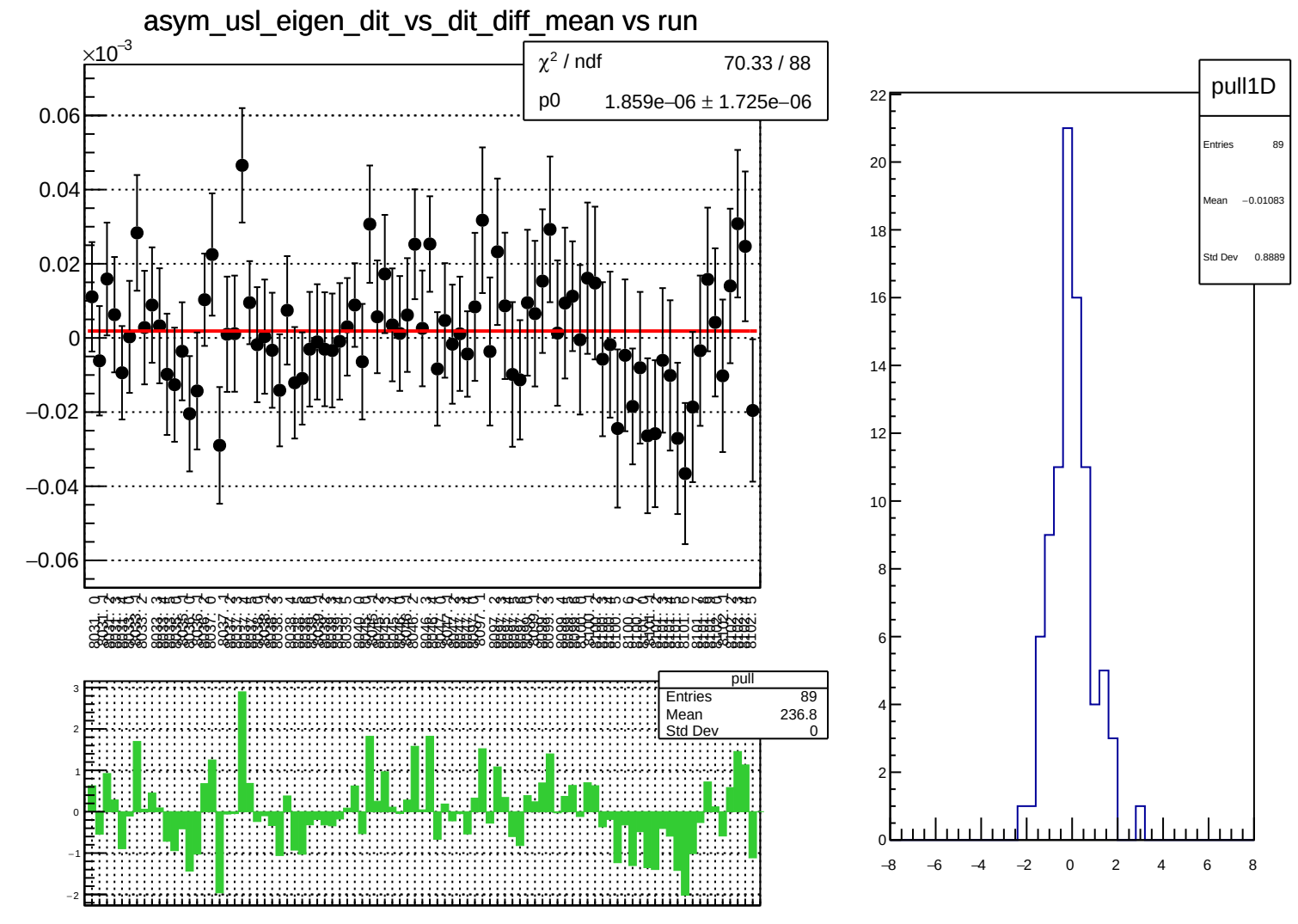

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.6 / 88
p0 0.01716 ± 0.04059
pull
Entries 89
Mean −61.11
Std Dev 0

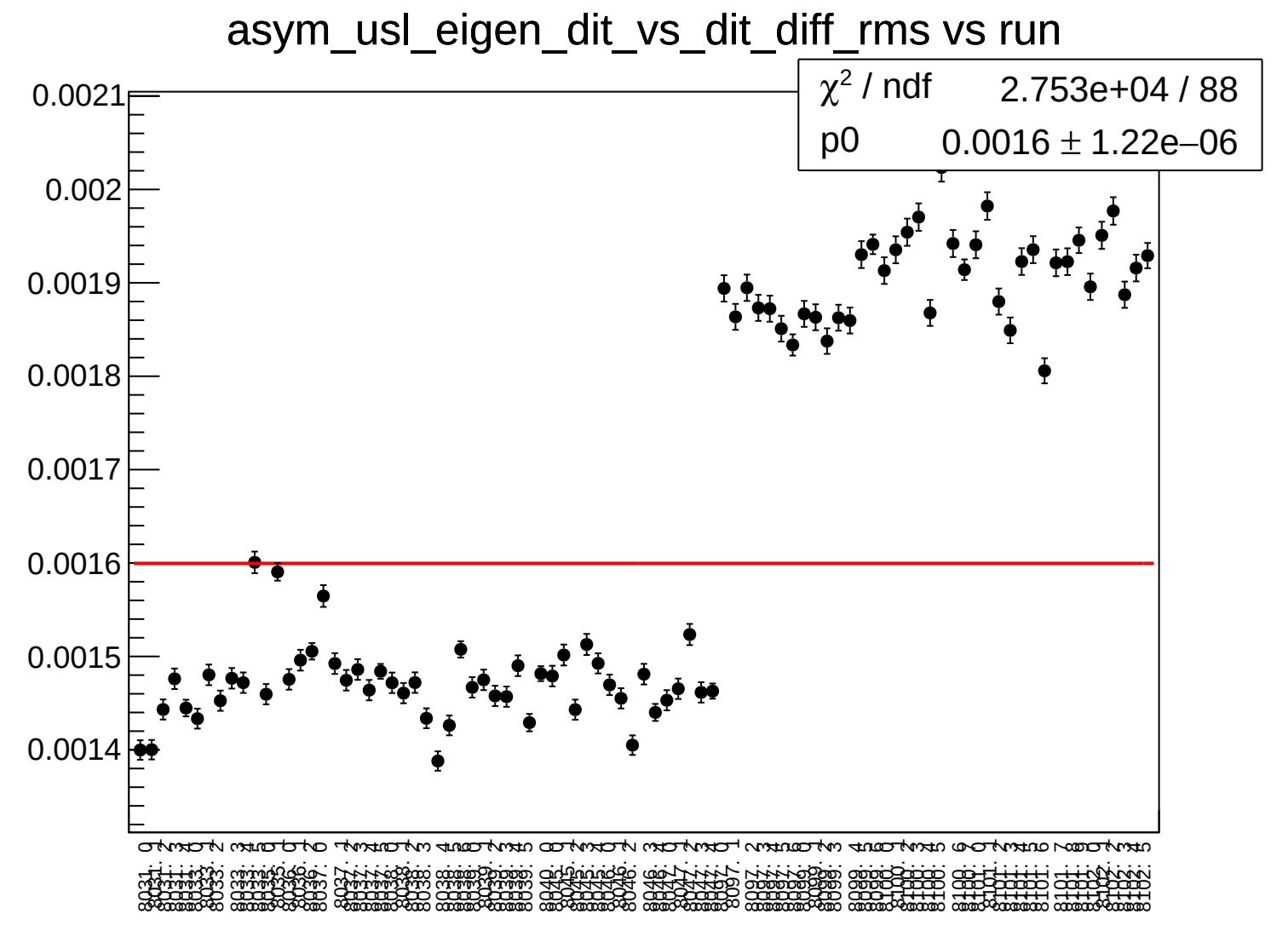

pull1D
Entries 89
Mean −0.01318
Std Dev 1.074

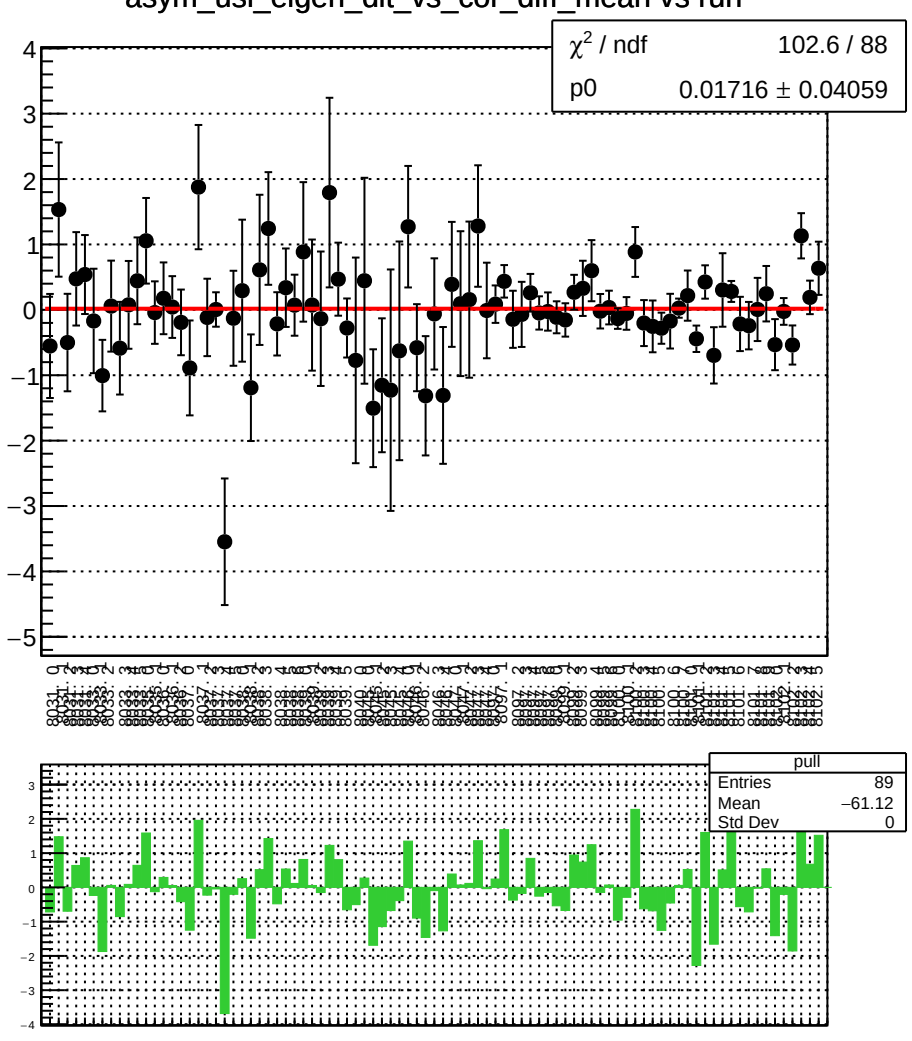

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.799e+05 / 88
p0 32.31 ± 0.0287
220
200
180
160
140
120
100
80
60
40
20

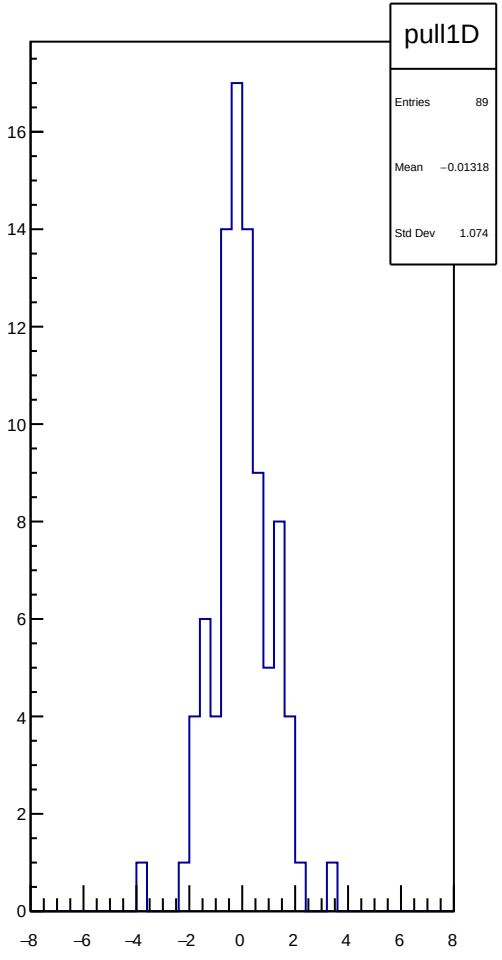

asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 116.9 / 88
p0 −0.008206 ± 0.06022
pull
Entries 89
Mean 14.75
Std Dev 0
pull1D
Entries 89
Mean 0.0511
Std Dev 1.145

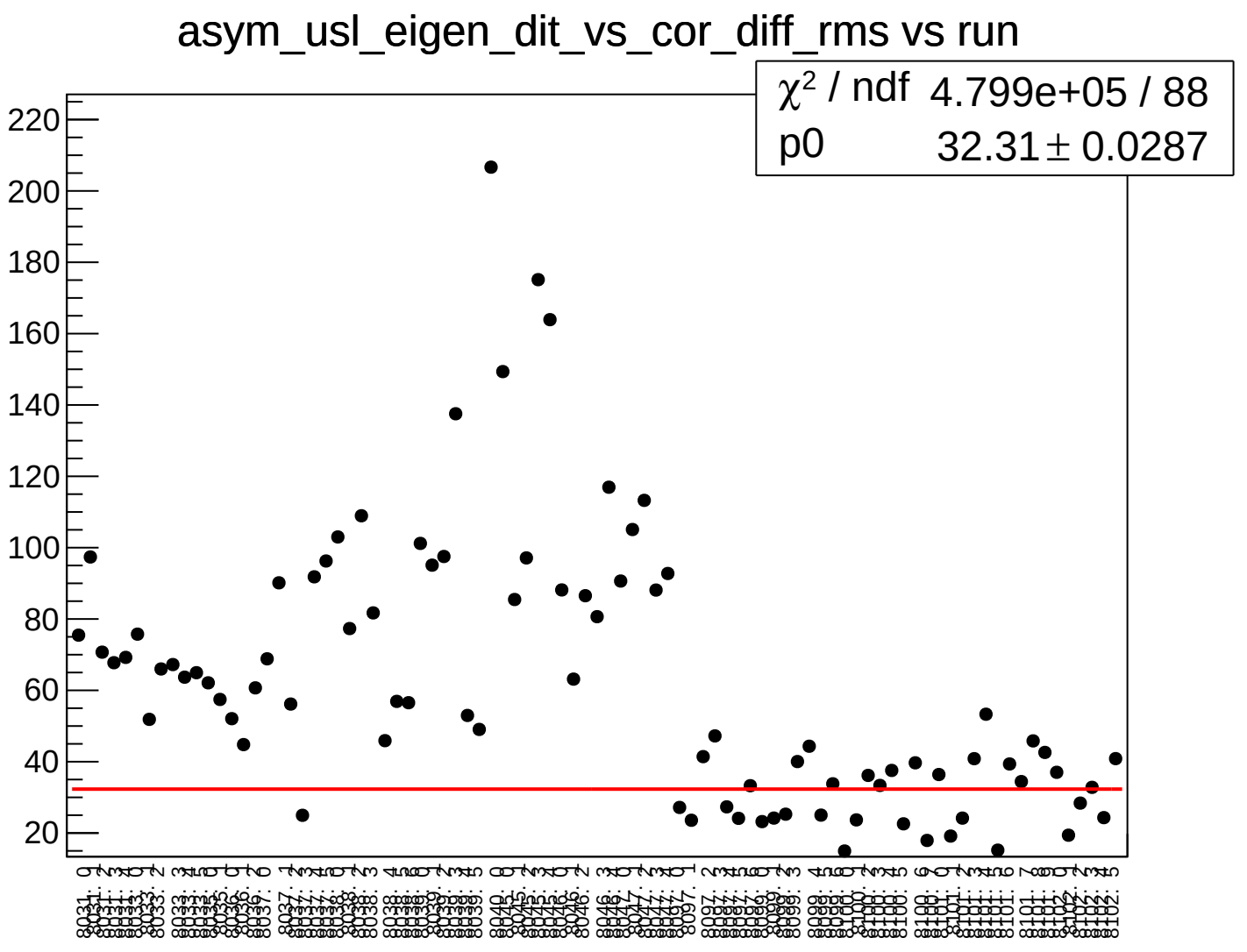

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.707e+05 / 88
p0 51.74 ± 0.04258
220
200
180
160
140
120
100
80
60
40
20

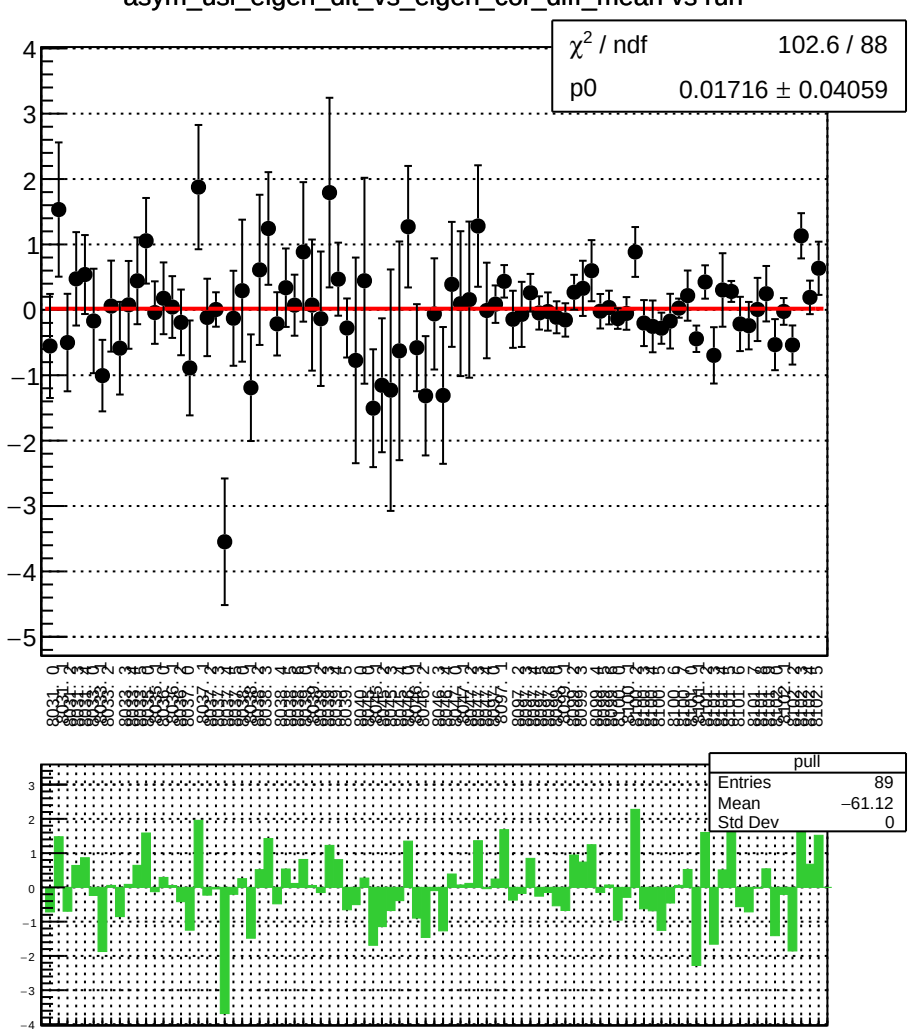

asym_usl_eigen_dit_vs_dit_diff_mean vs run
×10−3
χ2 / ndf 70.33 / 88
p0 1.859e−06 ± 1.725e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 89
Mean 236.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.01083
Std Dev 0.8889
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

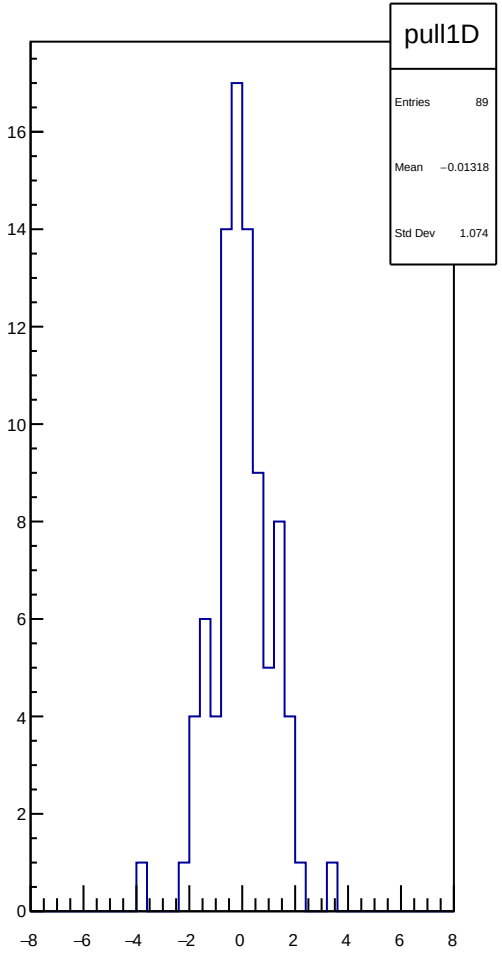

asym_usl_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.753e+04 / 88
p0 0.0016 ± 1.22e−06
0.0021
0.002
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014

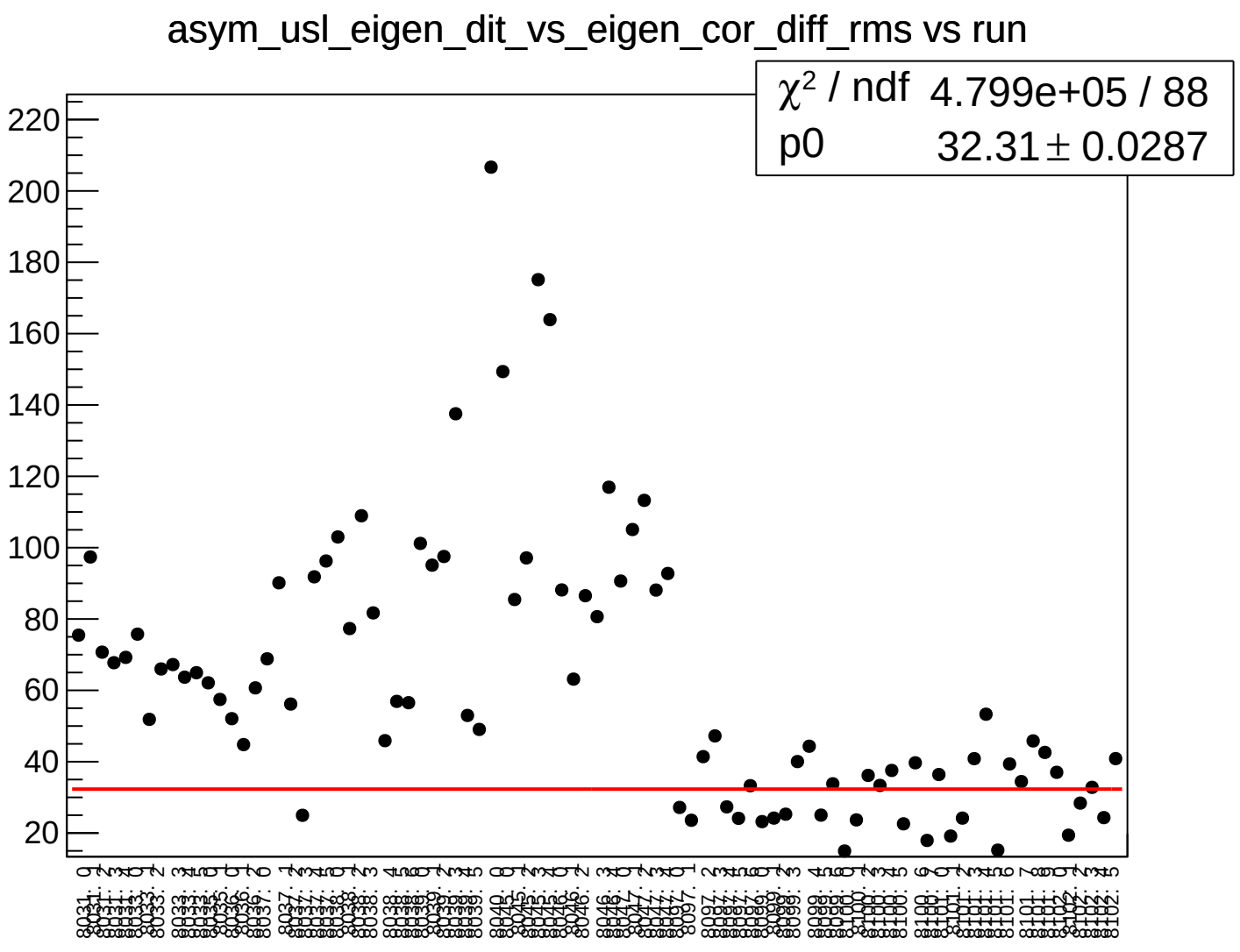

asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 102.6 / 88
p0 0.01716 ± 0.04059
pull
Entries 89
Mean −61.12
Std Dev 0

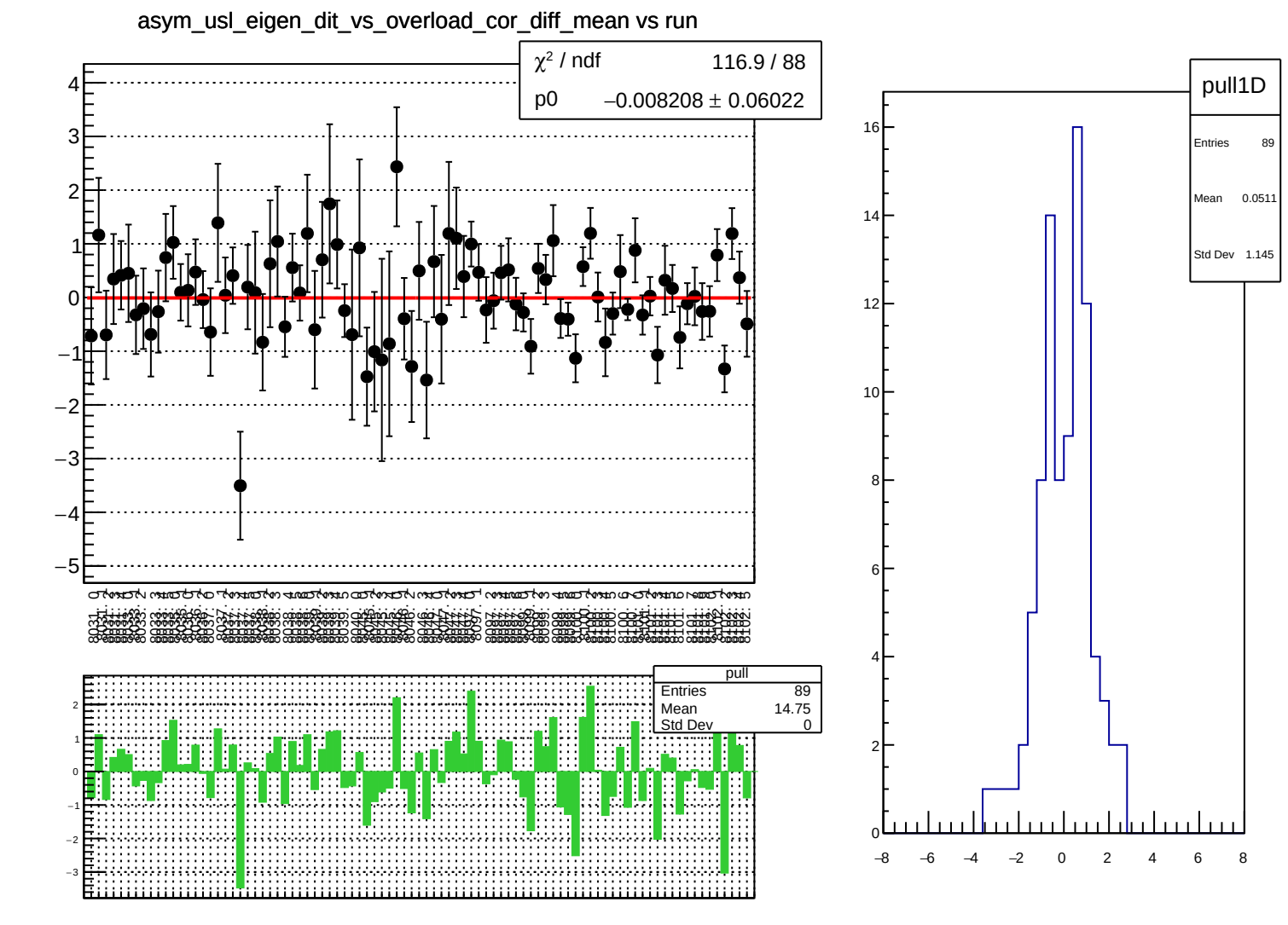

pull1D
Entries 89
Mean −0.01318
Std Dev 1.074

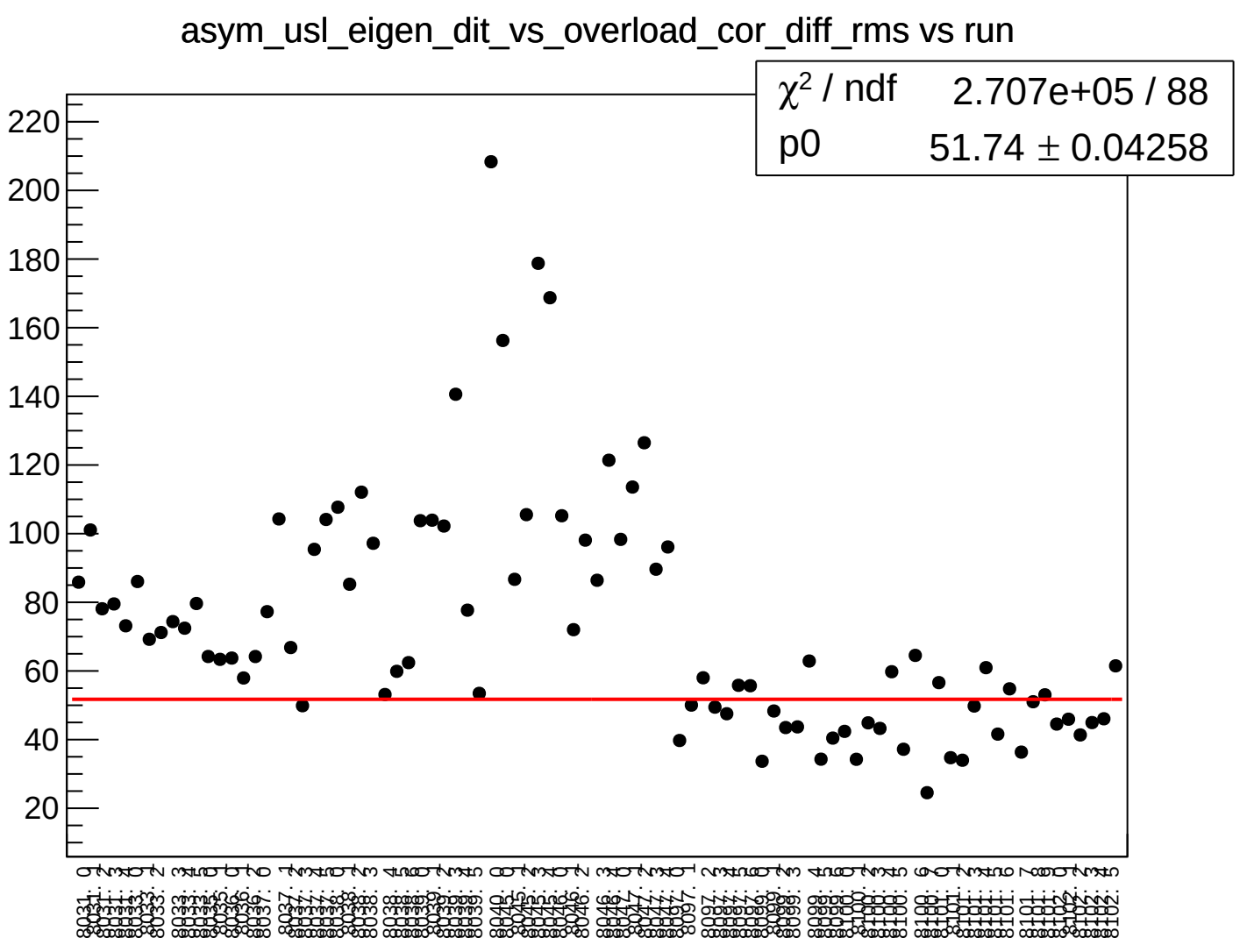

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.799e+05 / 88
p0 32.31 ± 0.0287
220
200
180
160
140
120
100
80
60
40
20

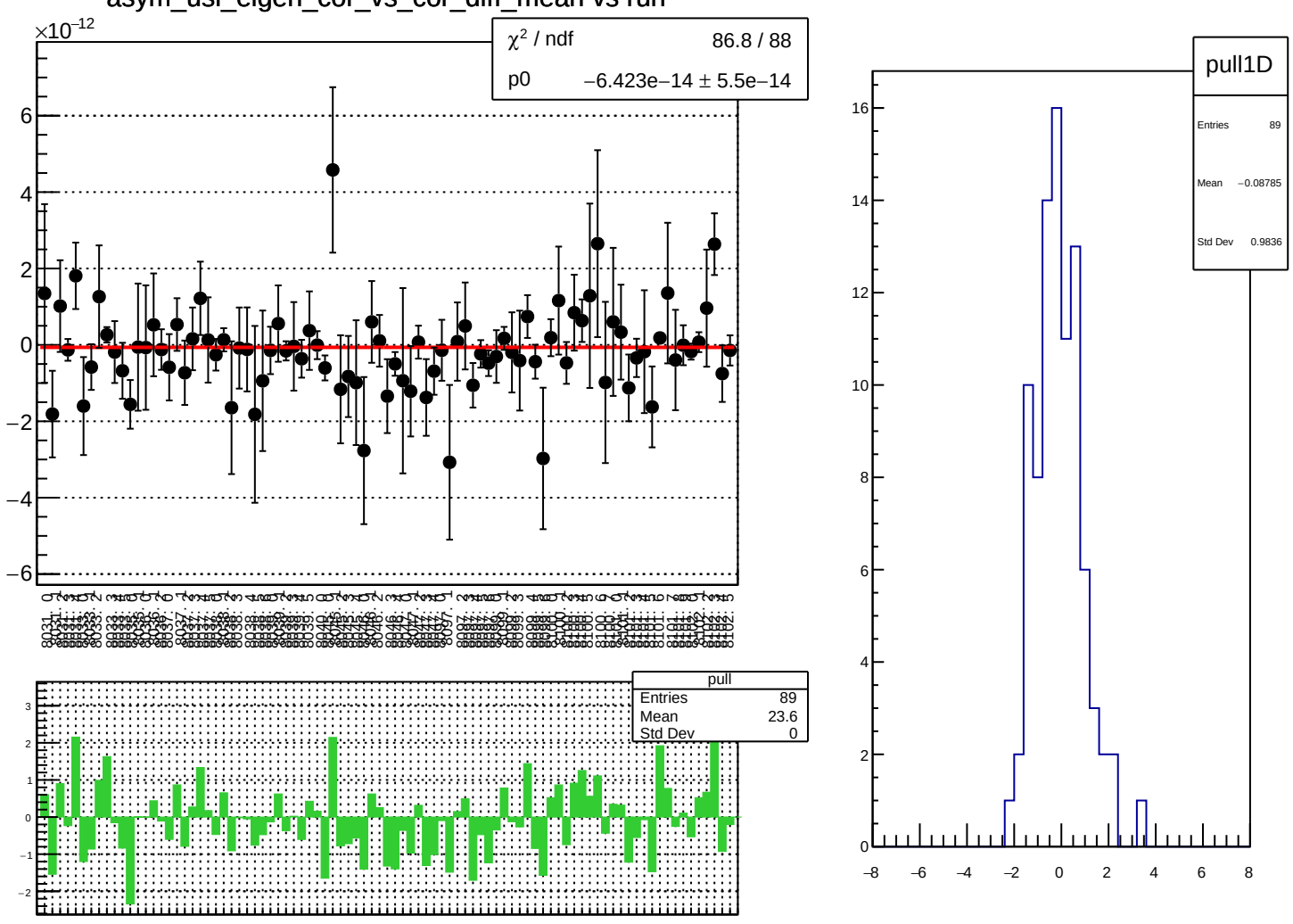

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.6 / 88
p0 0.01716 ± 0.04059
pull
Entries 89
Mean −61.12
Std Dev 0

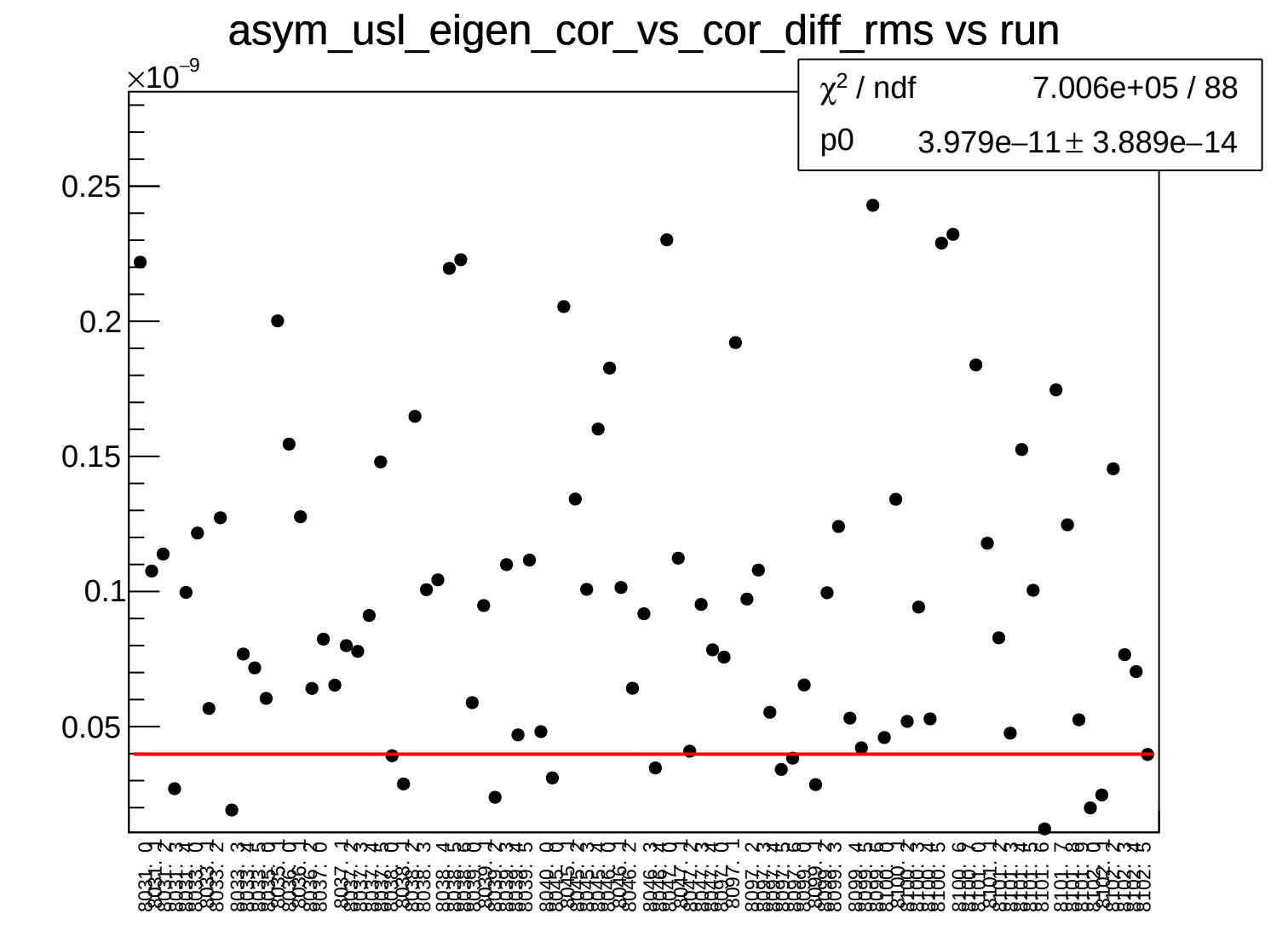

pull1D
Entries 89
Mean −0.01318
Std Dev 1.074

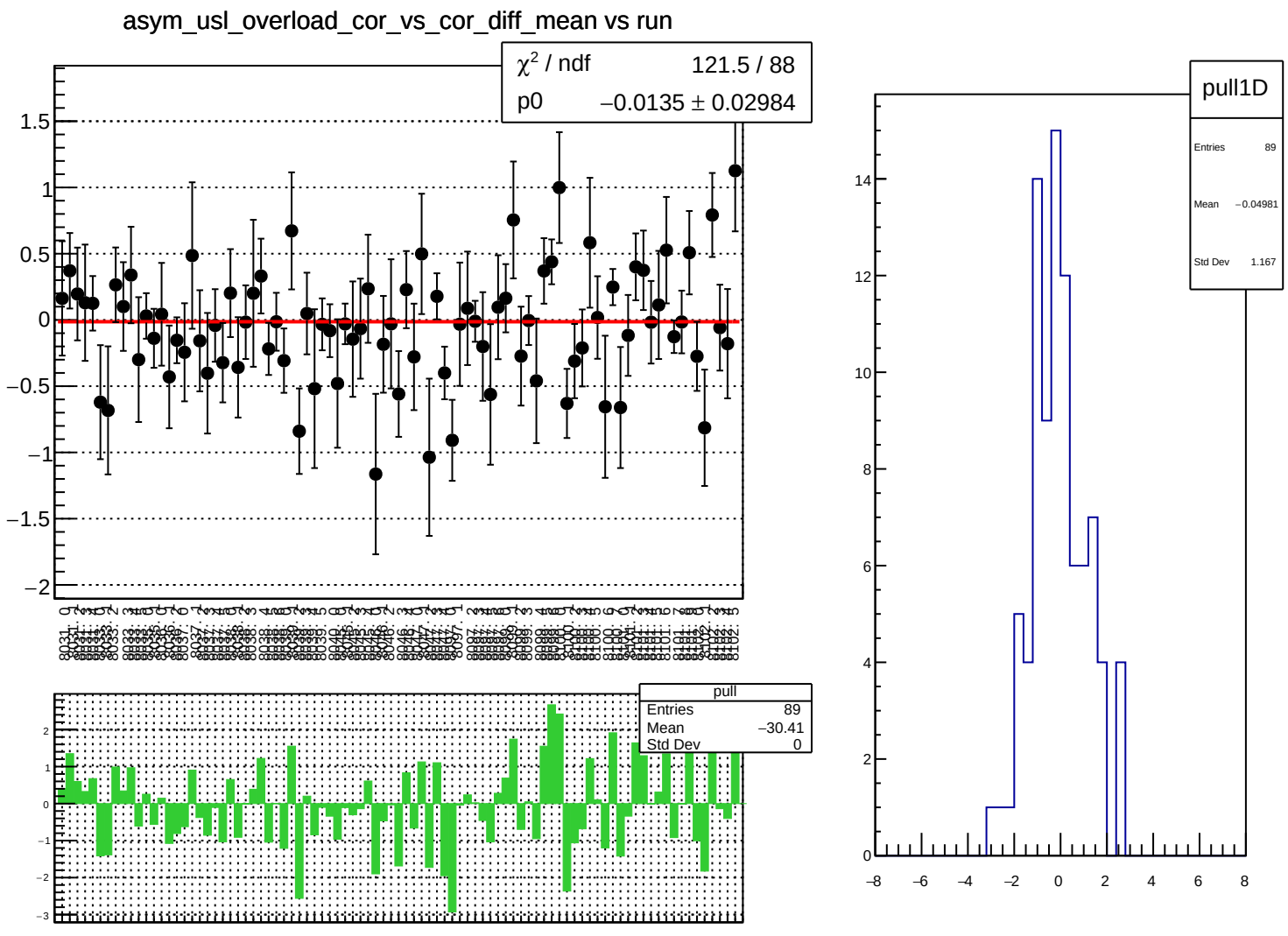

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.799e+05 / 88
p0 32.31 ± 0.0287
220
200
180
160
140
120
100
80
60
40
20

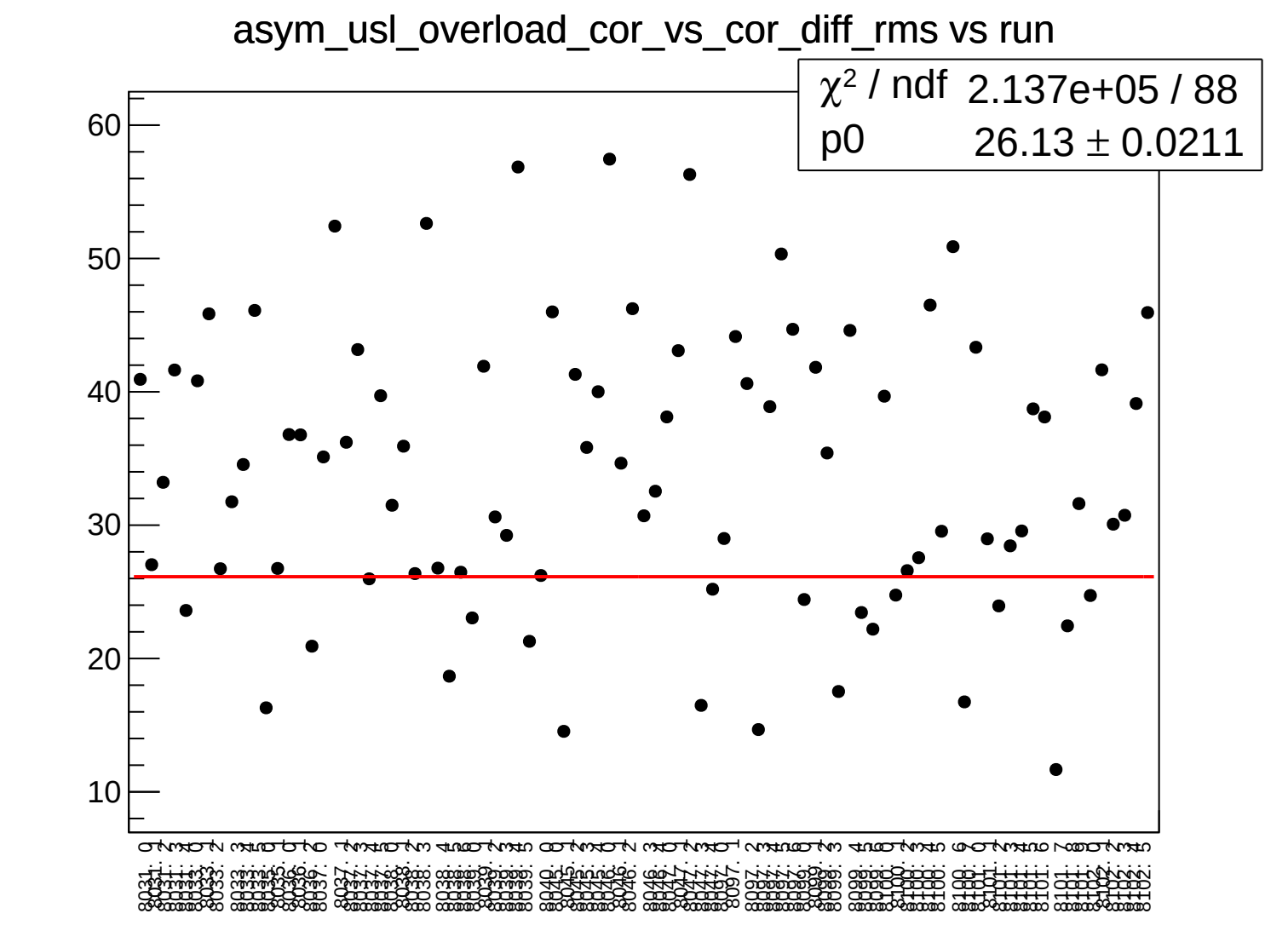

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 116.9 / 88
p0 −0.008208 ± 0.06022
pull
Entries 89
Mean 14.75
Std Dev 0
pull1D
Entries 89
Mean 0.0511
Std Dev 1.145

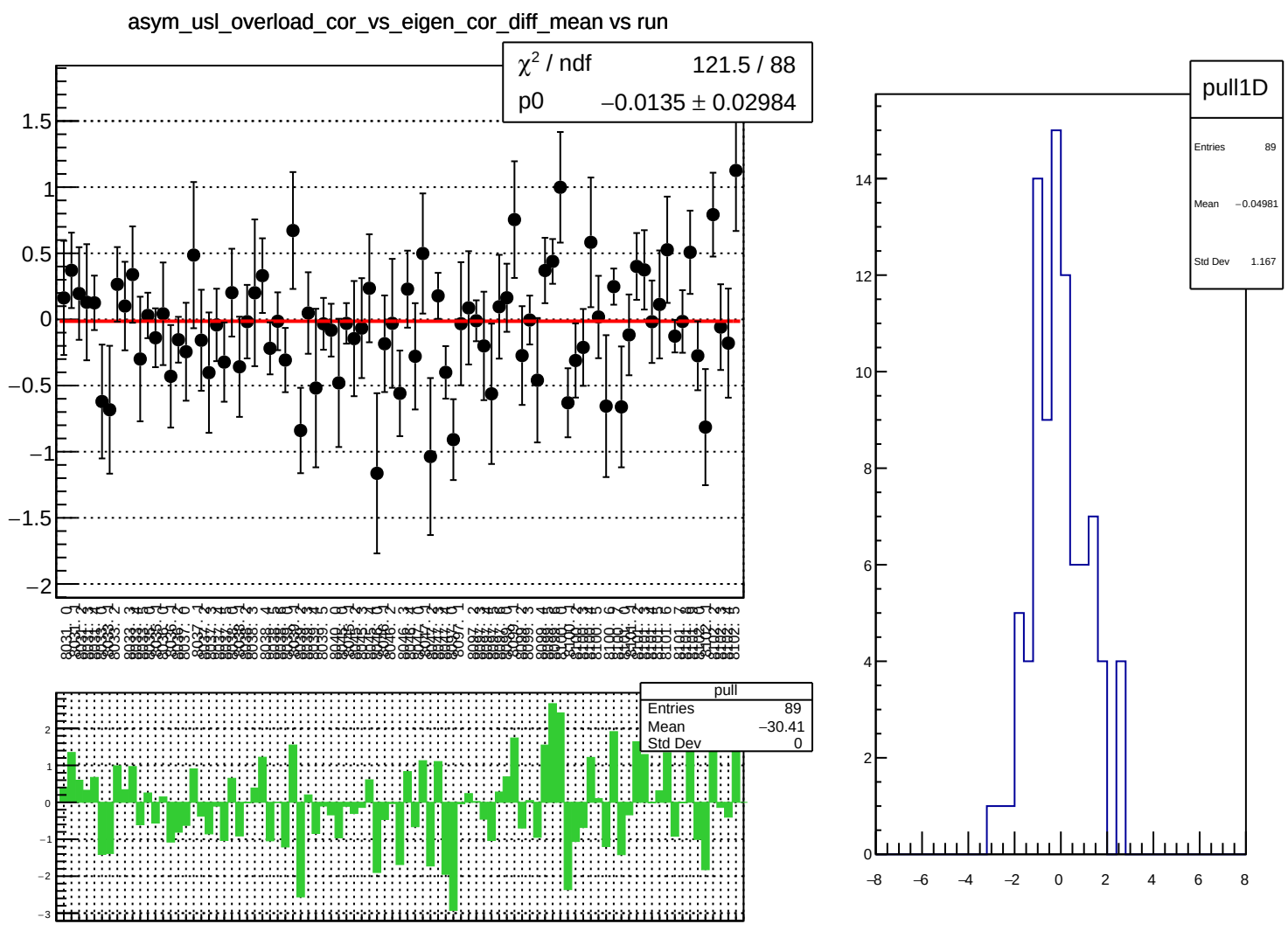

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.707e+05 / 88
p0 51.74 ± 0.04258
220
200
180
160
140
120
100
80
60
40
20

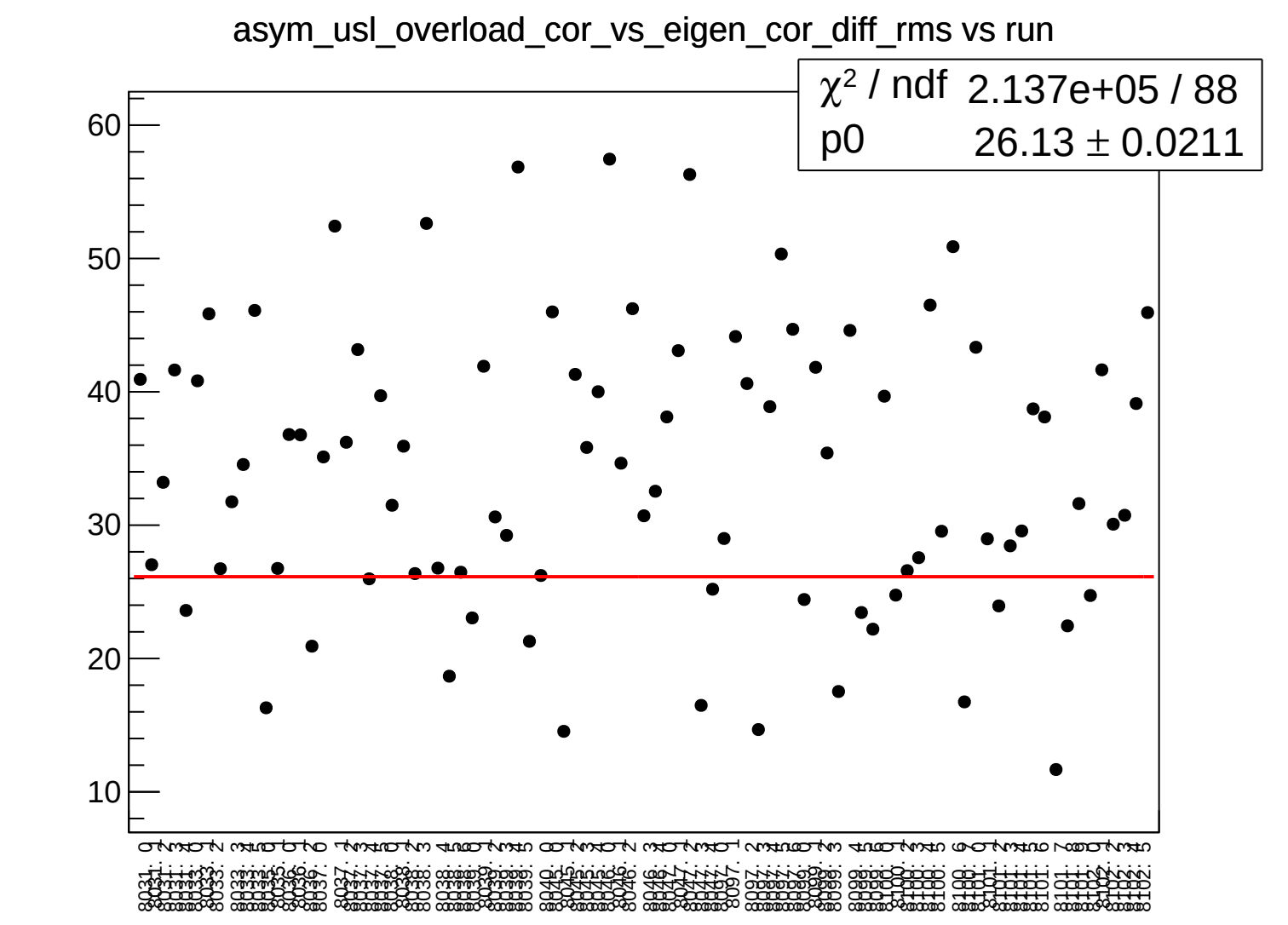

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.8 / 88
p0 −6.423e−14 ± 5.5e−14
pull
Entries 89
Mean 23.6
Std Dev 0
pull1D
Entries 89
Mean −0.08785
Std Dev 0.9836

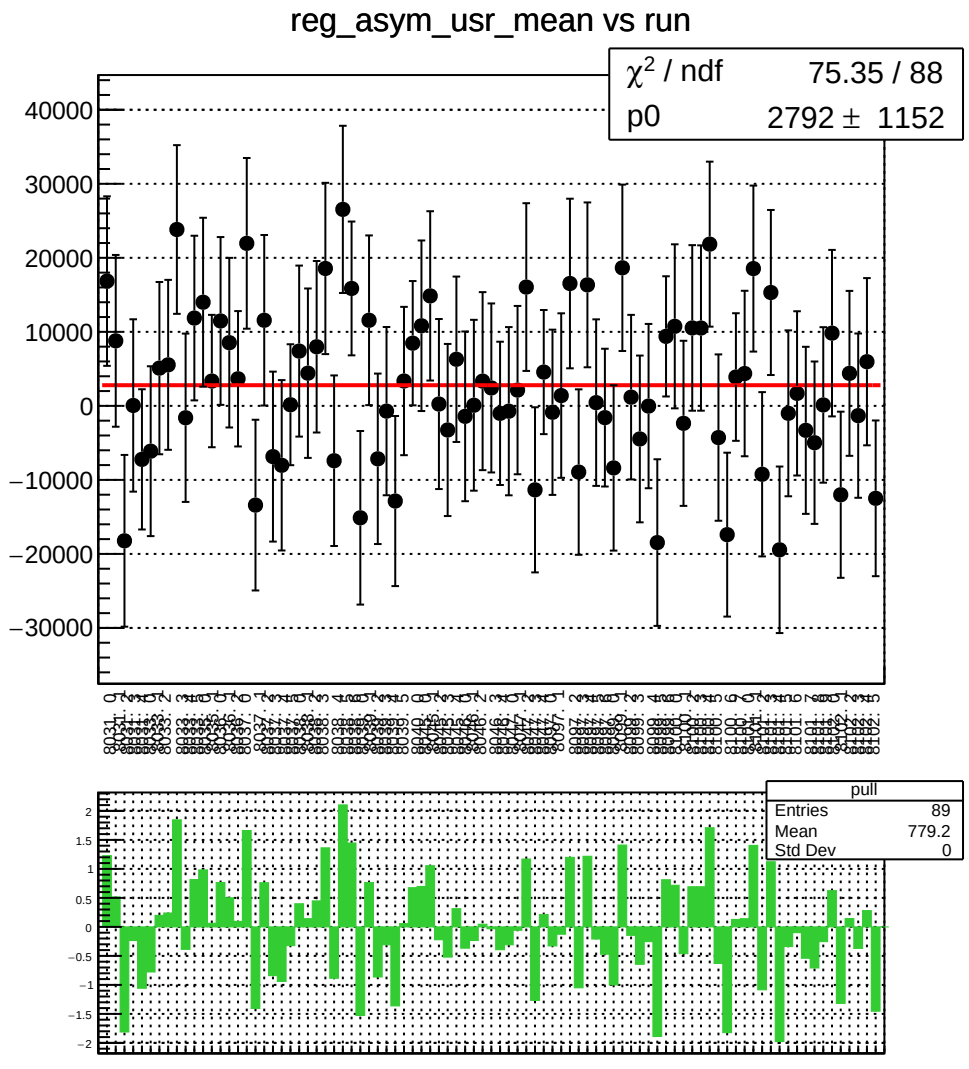

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.006e+05 / 88
p0 3.979e−11 ± 3.889e−14
0.25
0.2
0.15
0.1
0.05

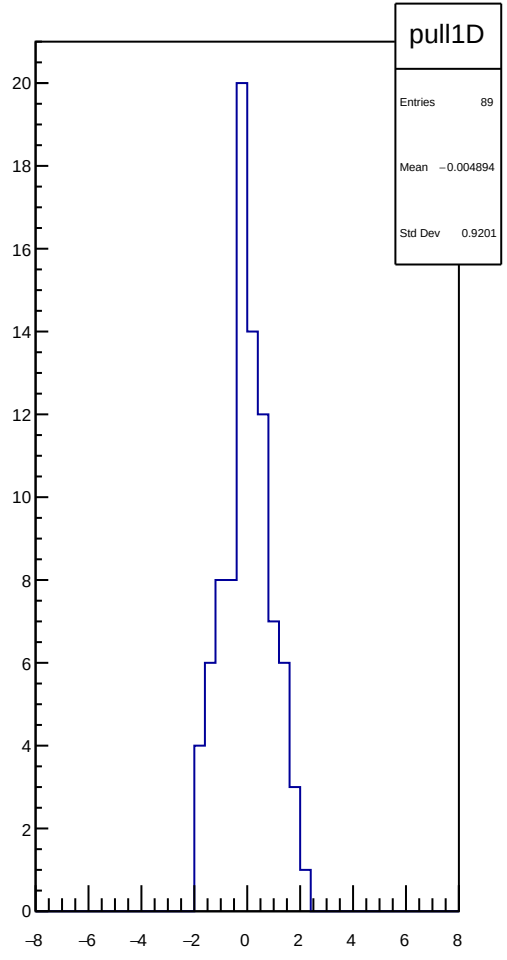

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 121.5 / 88
p0 −0.0135 ± 0.02984
pull
Entries 89
Mean −30.41
Std Dev 0
pull1D
Entries 89
Mean −0.04981
Std Dev 1.167

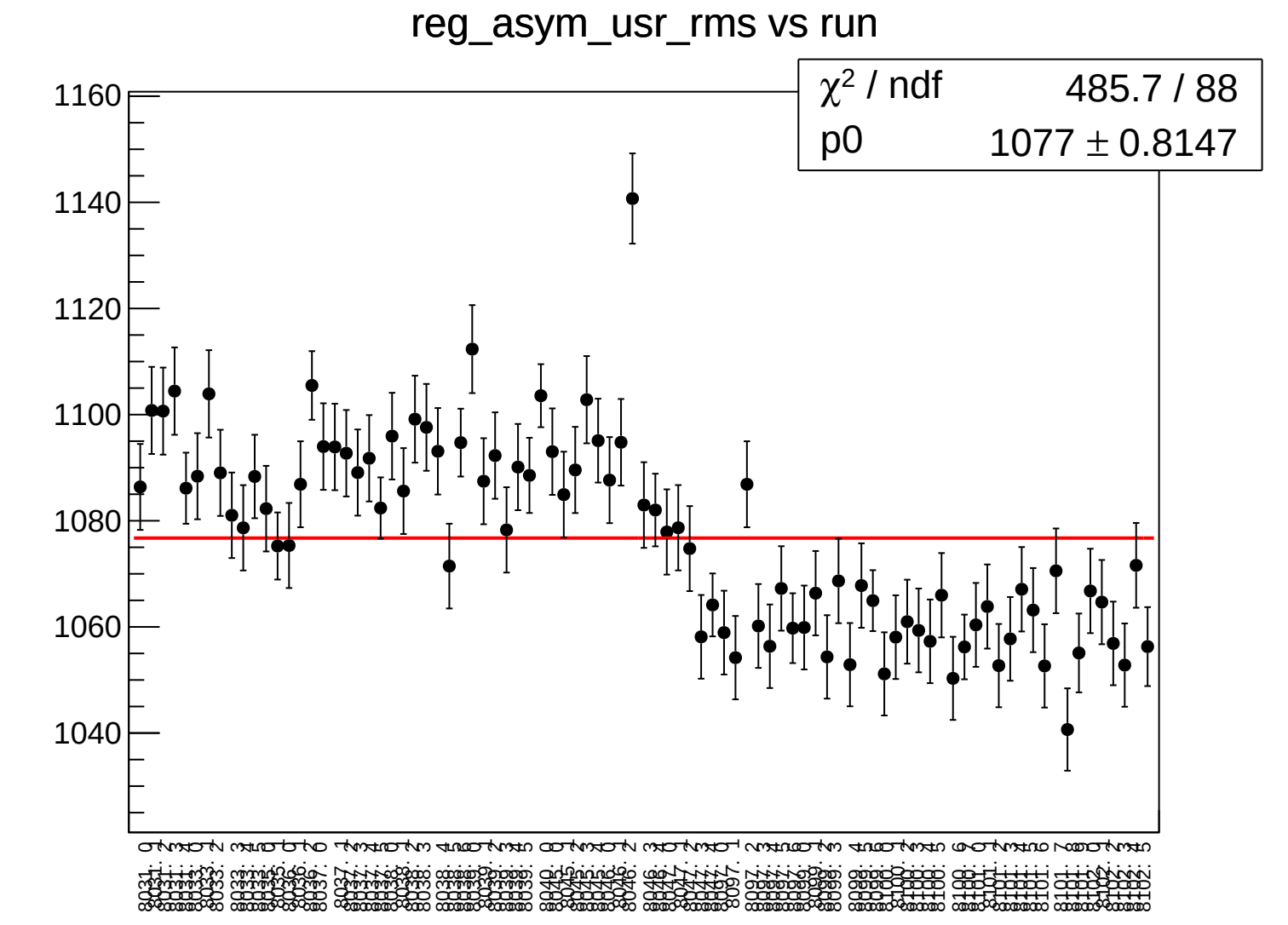

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 2.137e+05 / 88
p0 26.13 ± 0.0211
60
50
40
30
20
10

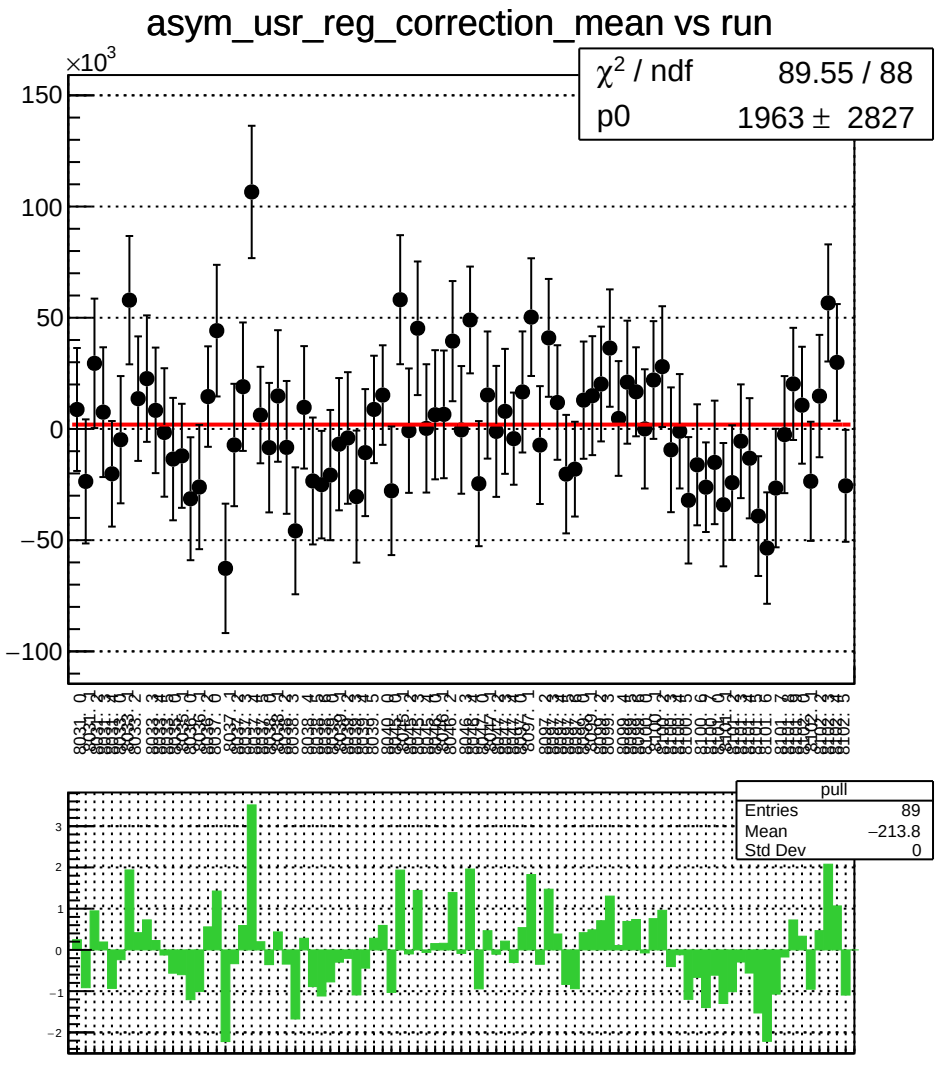

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 121.5 / 88
p0 −0.0135 ± 0.02984
pull
Entries 89
Mean −30.41
Std Dev 0
pull1D
Entries 89
Mean −0.04981
Std Dev 1.167

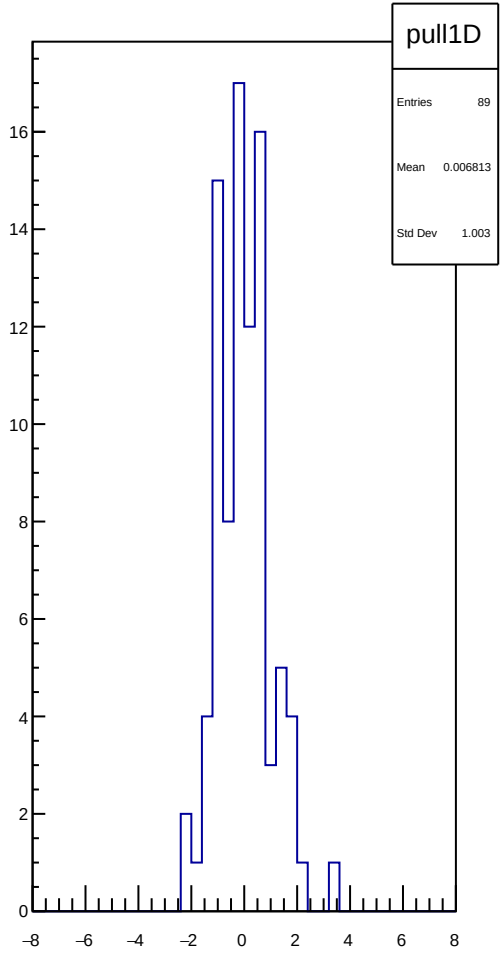

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.137e+05 / 88
p0 26.13 ± 0.0211
60
50
40
30
20
10

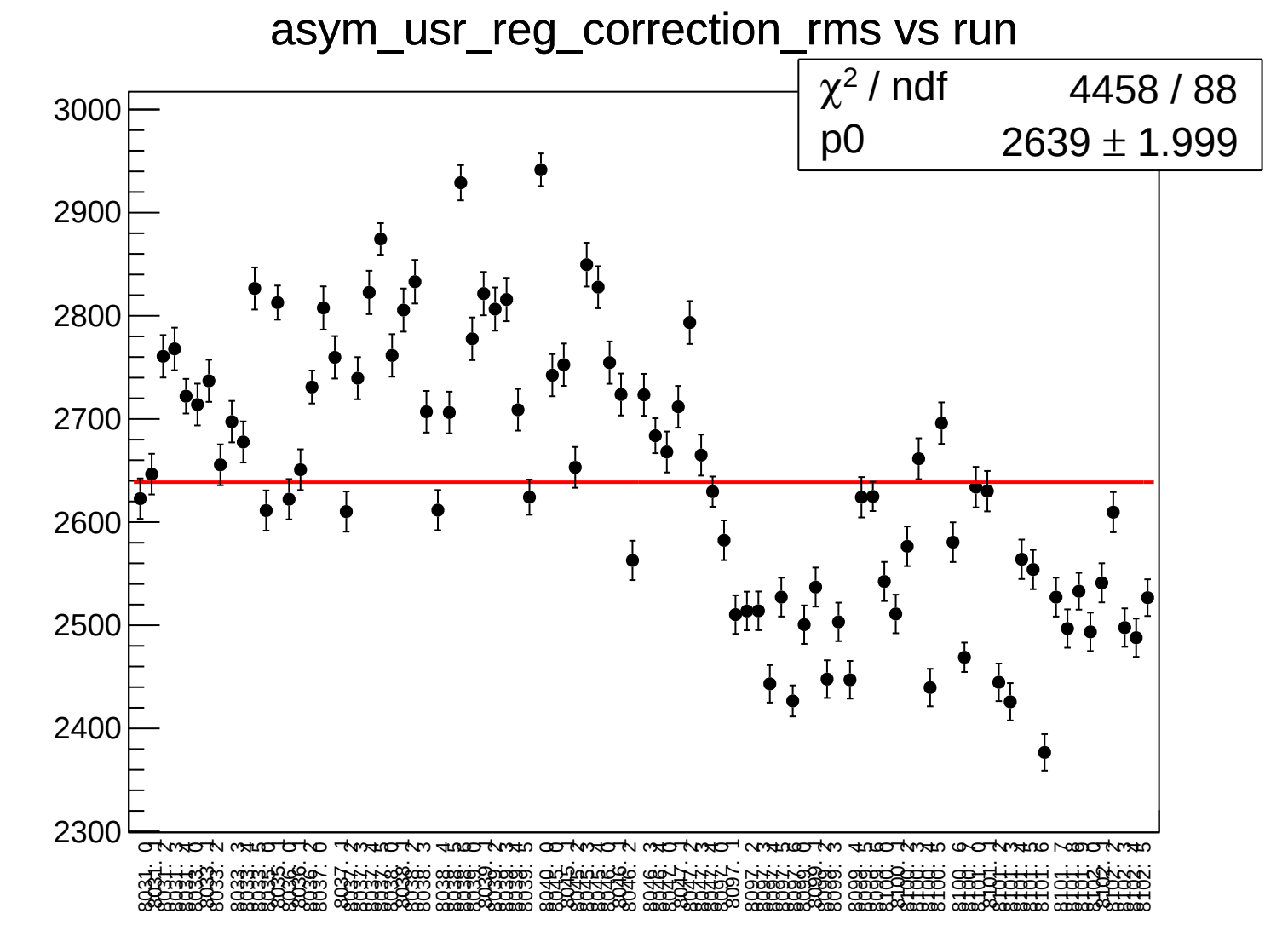

reg_asym_usr_mean vs run
χ² / ndf 75.35 / 88
p0 2792 ± 1152
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 779.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

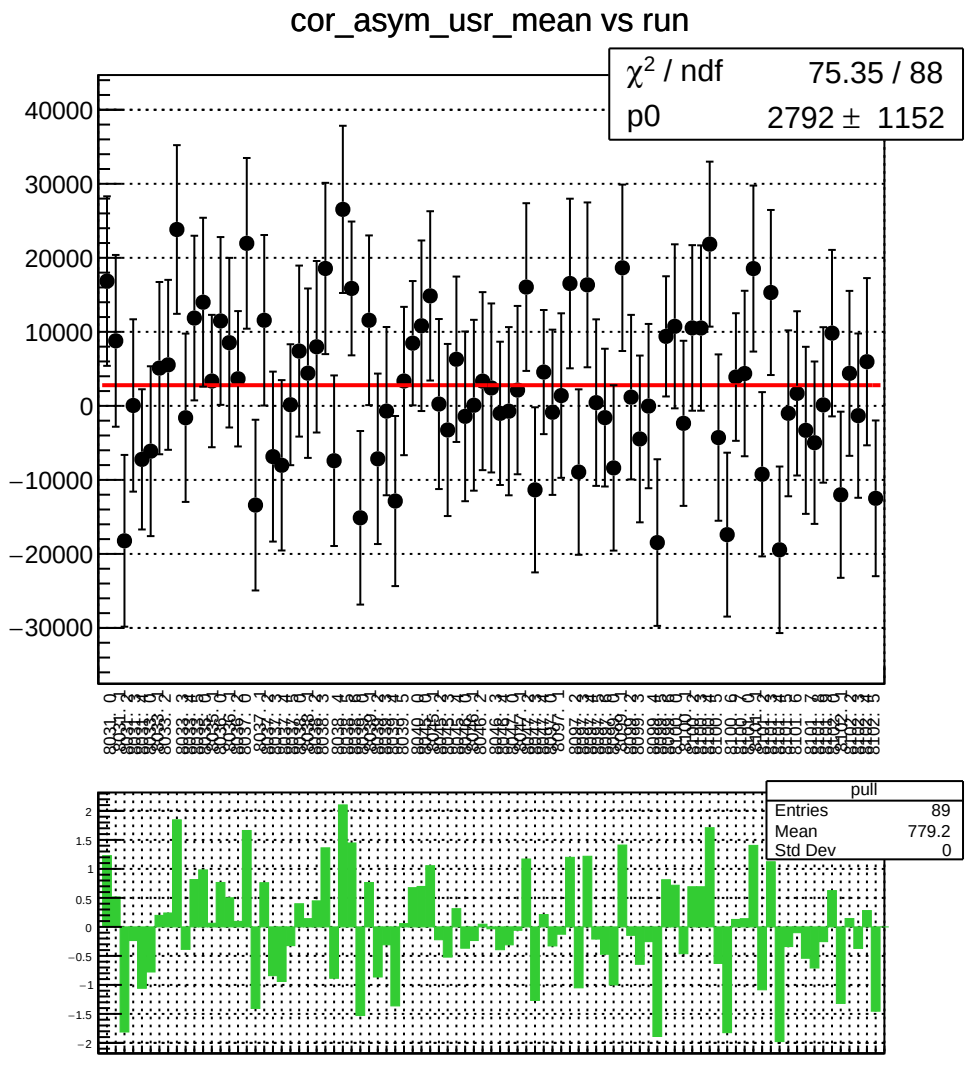

pull1D
Entries 89
Mean −0.004894
Std Dev 0.9201
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

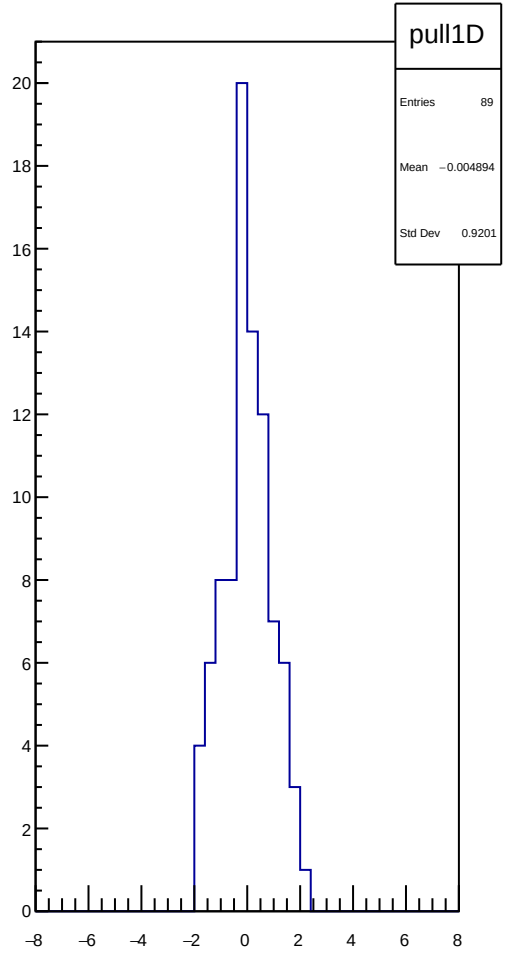

reg_asym_usr_rms vs run
χ² / ndf 485.7 / 88
p0 1077 ± 0.8147
1160
1140
1120
1100
1080
1060
1040

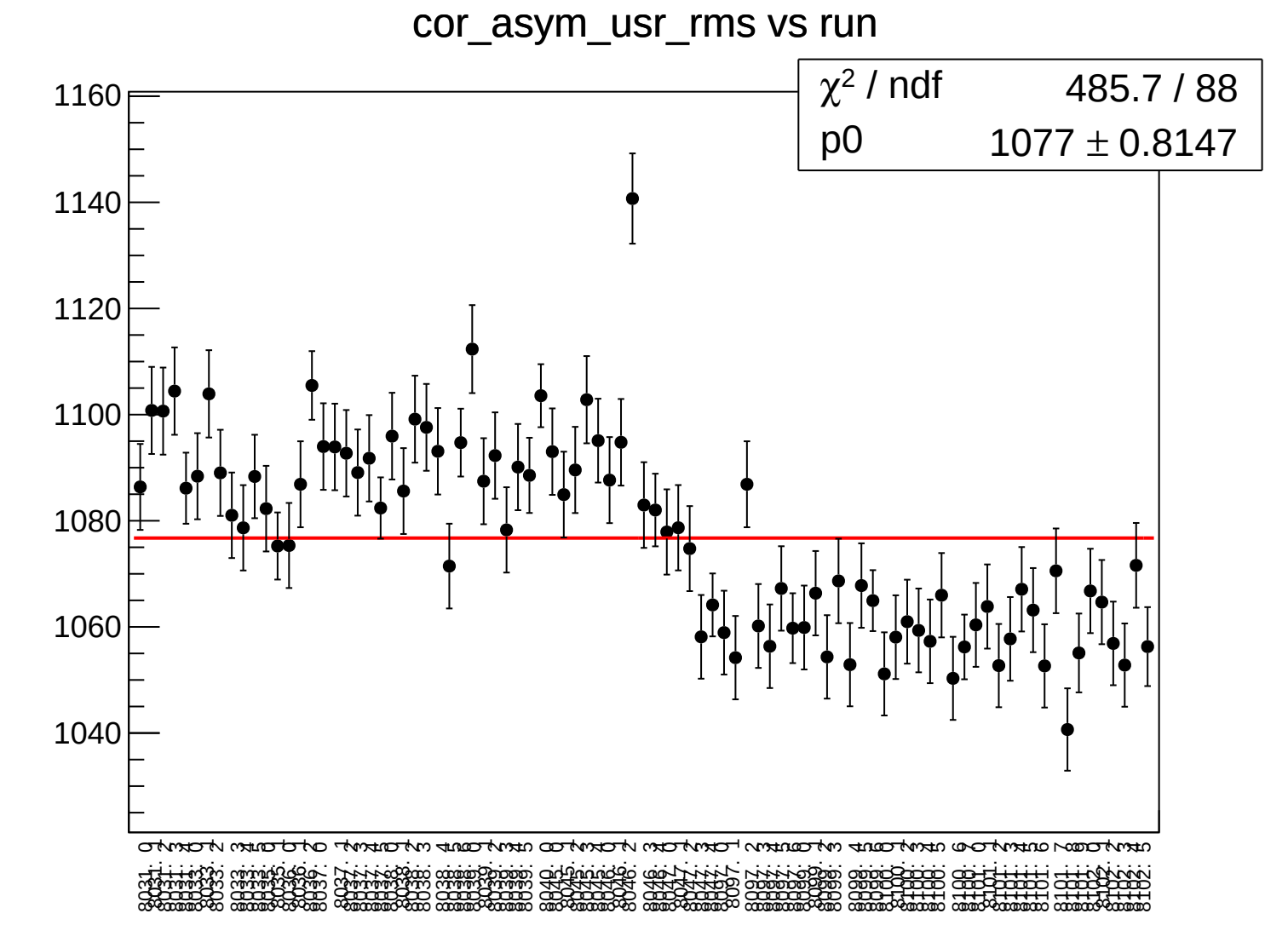

asym_usr_reg_correction_mean vs run
×10^3
χ² / ndf 89.55 / 88
p0 1963 ± 2827
150
100
50
0
−50
−100
pull
Entries 89
Mean −213.8
Std Dev 0
3
2
1
0
−1
−2

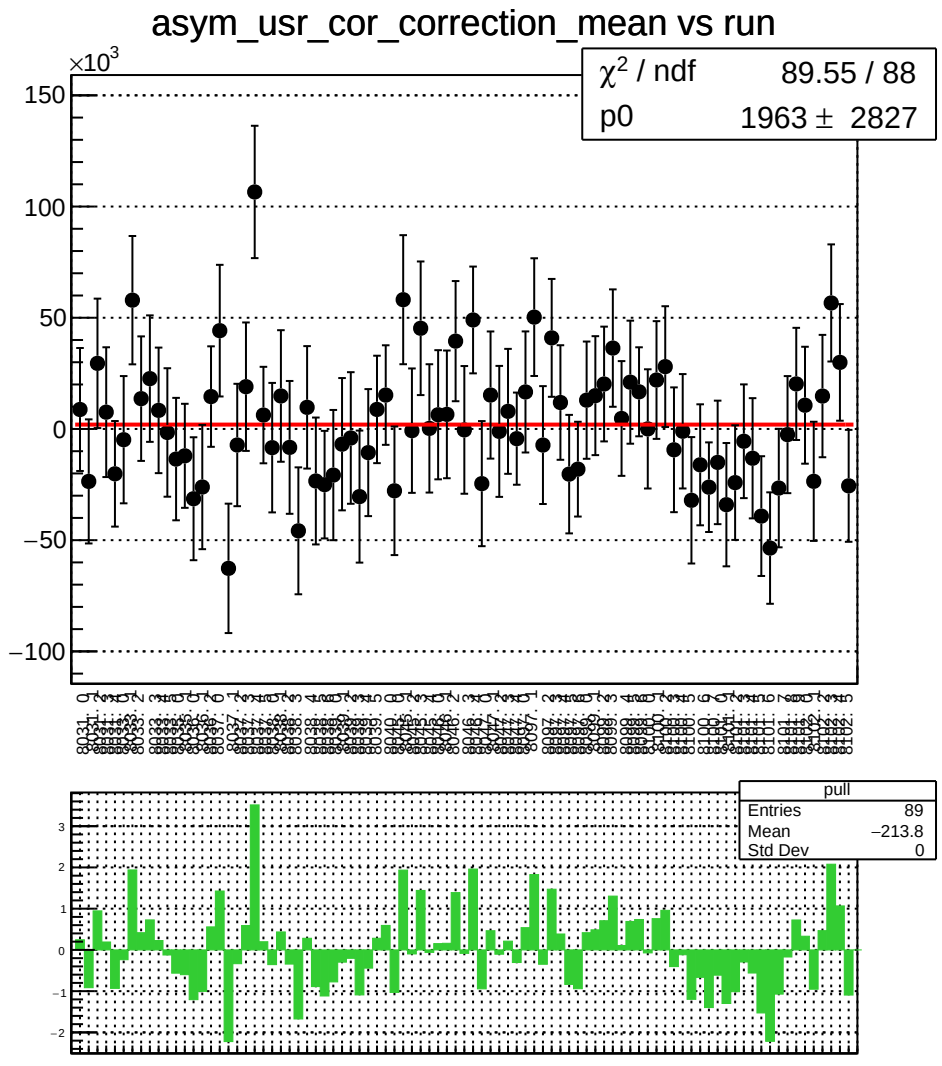

pull1D
Entries 89
Mean 0.006813
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

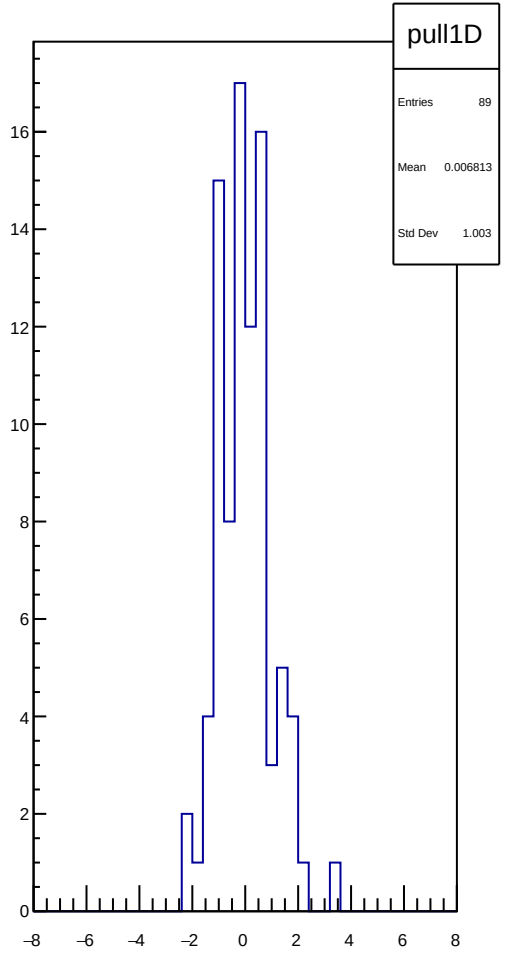

asym_usr_reg_correction_rms vs run
χ² / ndf 4458 / 88
p0 2639 ± 1.999
3000
2900
2800
2700
2600
2500
2400
2300

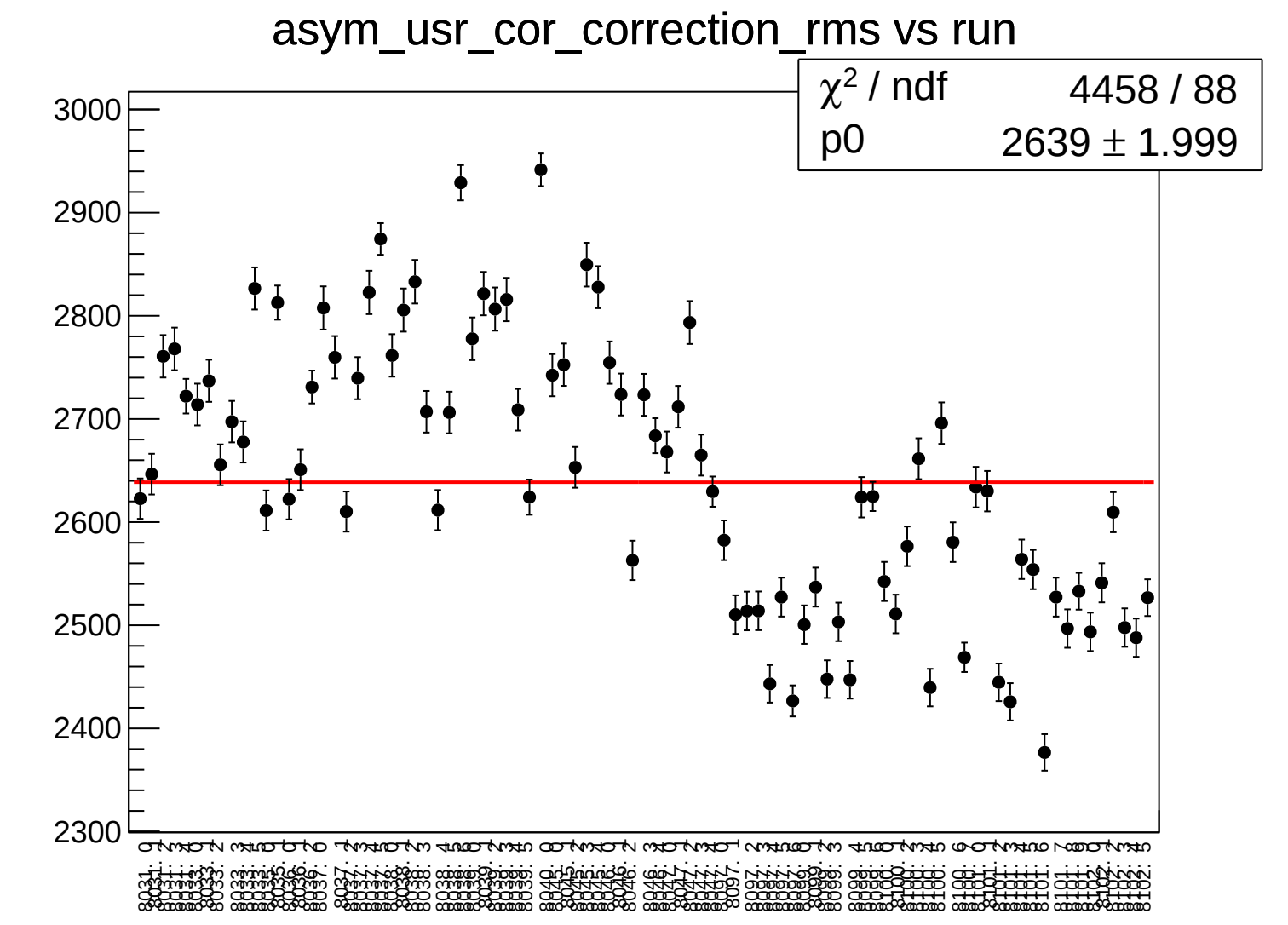

cor_asym_usr_mean vs run
χ² / ndf 75.35 / 88
p0 2792 ± 1152
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 779.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

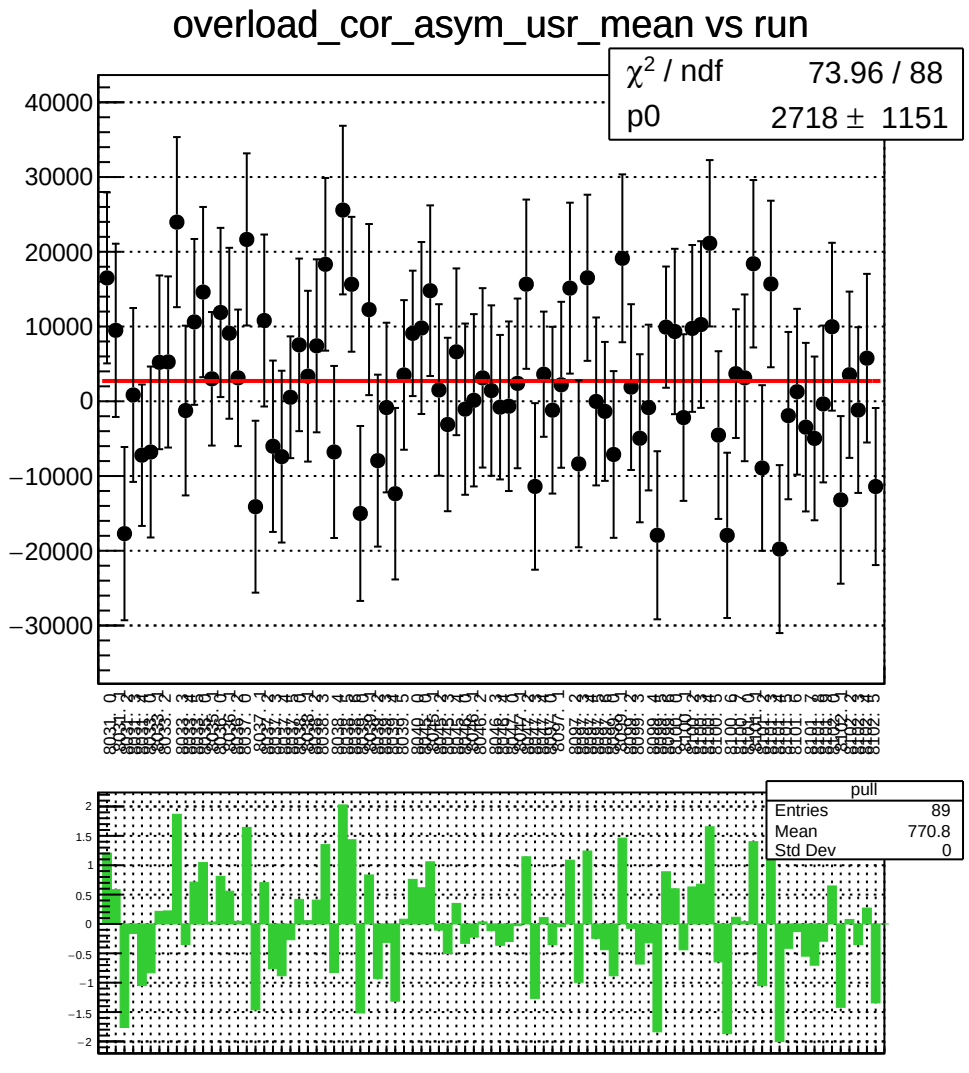

pull1D
Entries 89
Mean −0.004894
Std Dev 0.9201
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

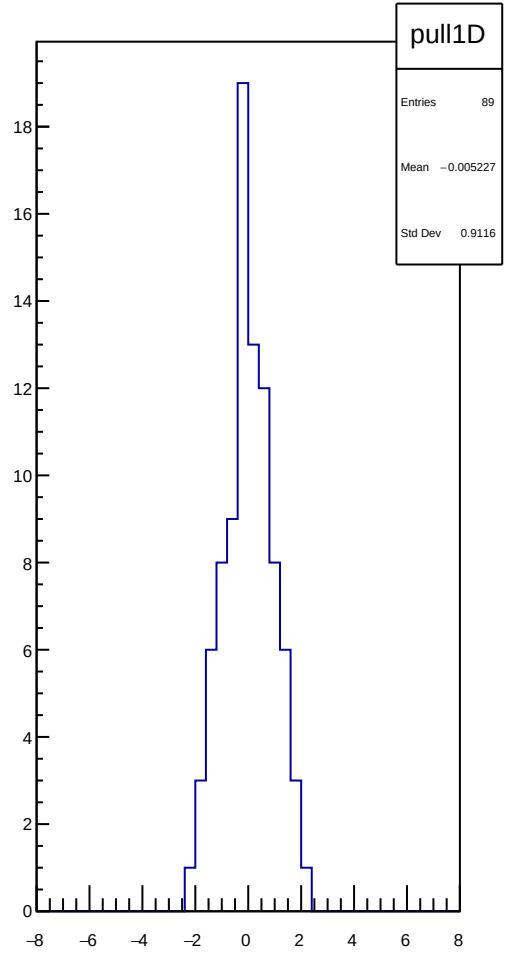

cor_asym_usr_rms vs run
χ² / ndf 485.7 / 88
p0 1077 ± 0.8147
1160
1140
1120
1100
1080
1060
1040

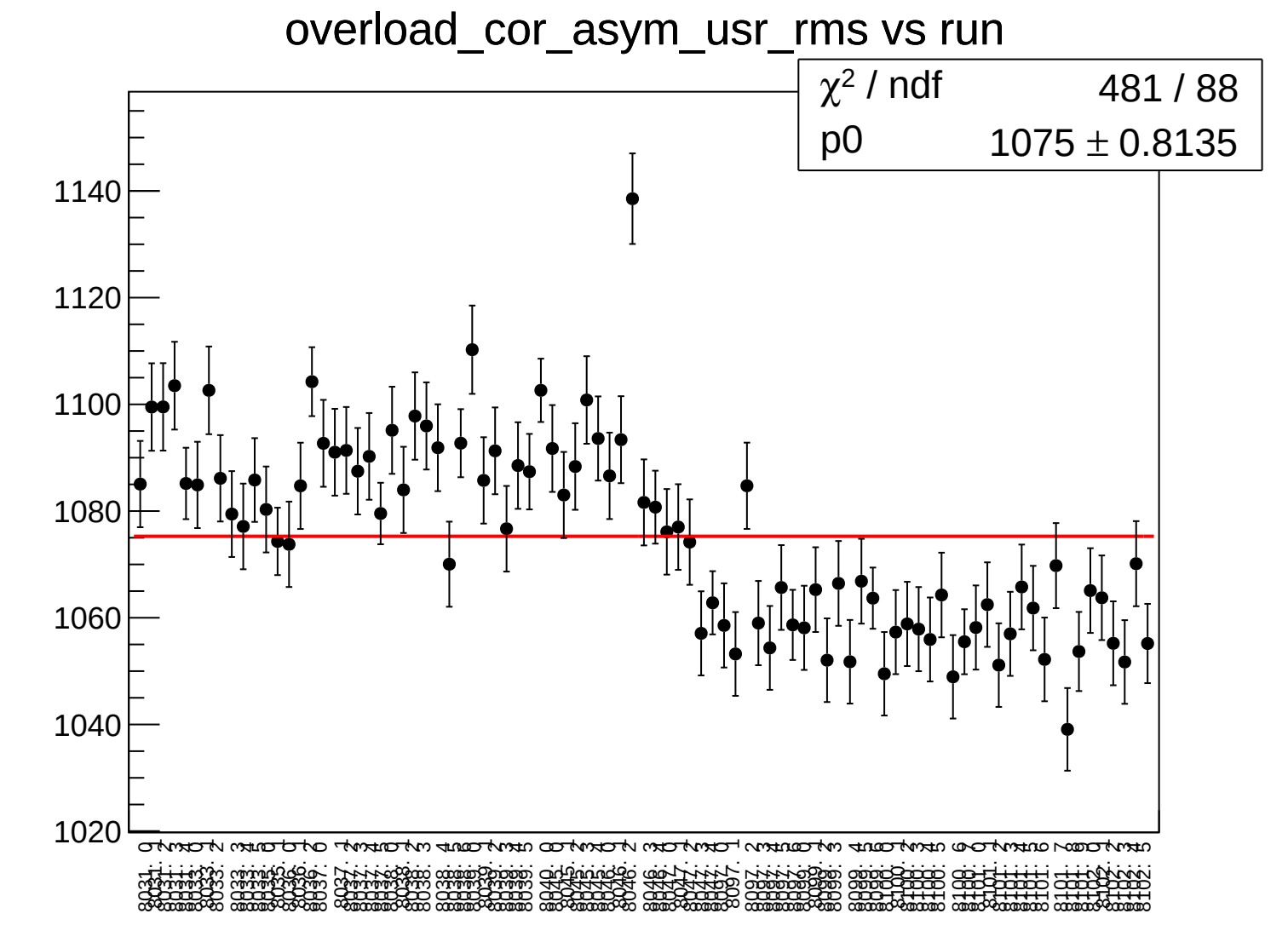

asym_usr_cor_correction_mean vs run
×10^3
χ² / ndf 89.55 / 88
p0 1963 ± 2827
150
100
50
0
−50
−100
pull
Entries 89
Mean −213.8
Std Dev 0
3
2
1
0
−1
−2

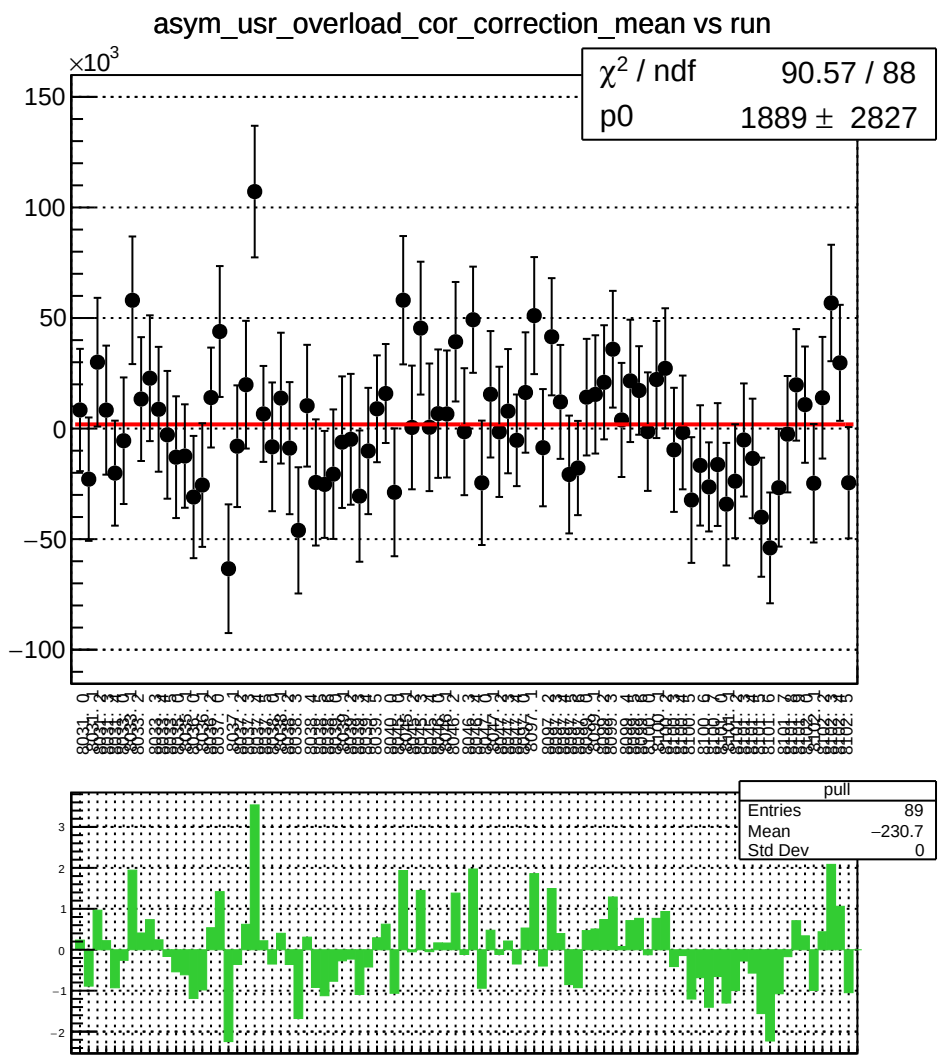

pull1D
Entries 89
Mean 0.006813
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

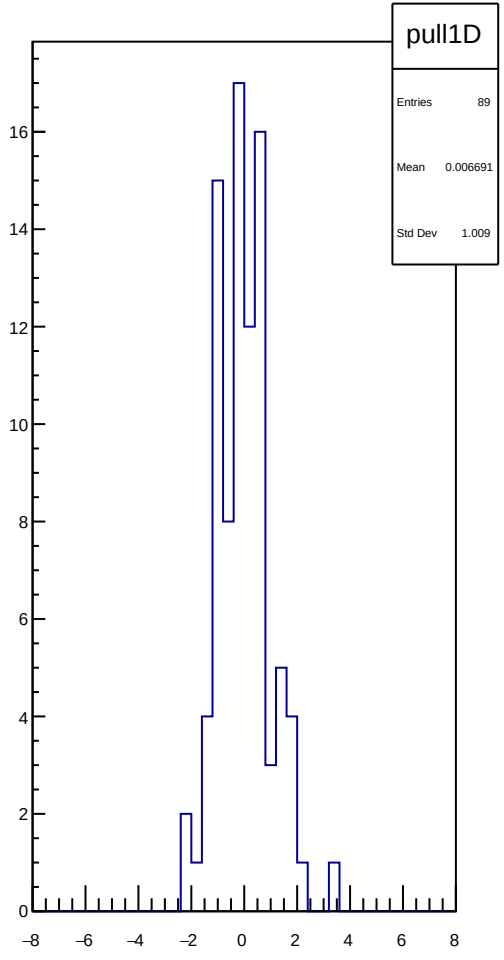

asym_usr_cor_correction_rms vs run
χ² / ndf 4458 / 88
p0 2639 ± 1.999
3000
2900
2800
2700
2600
2500
2400
2300

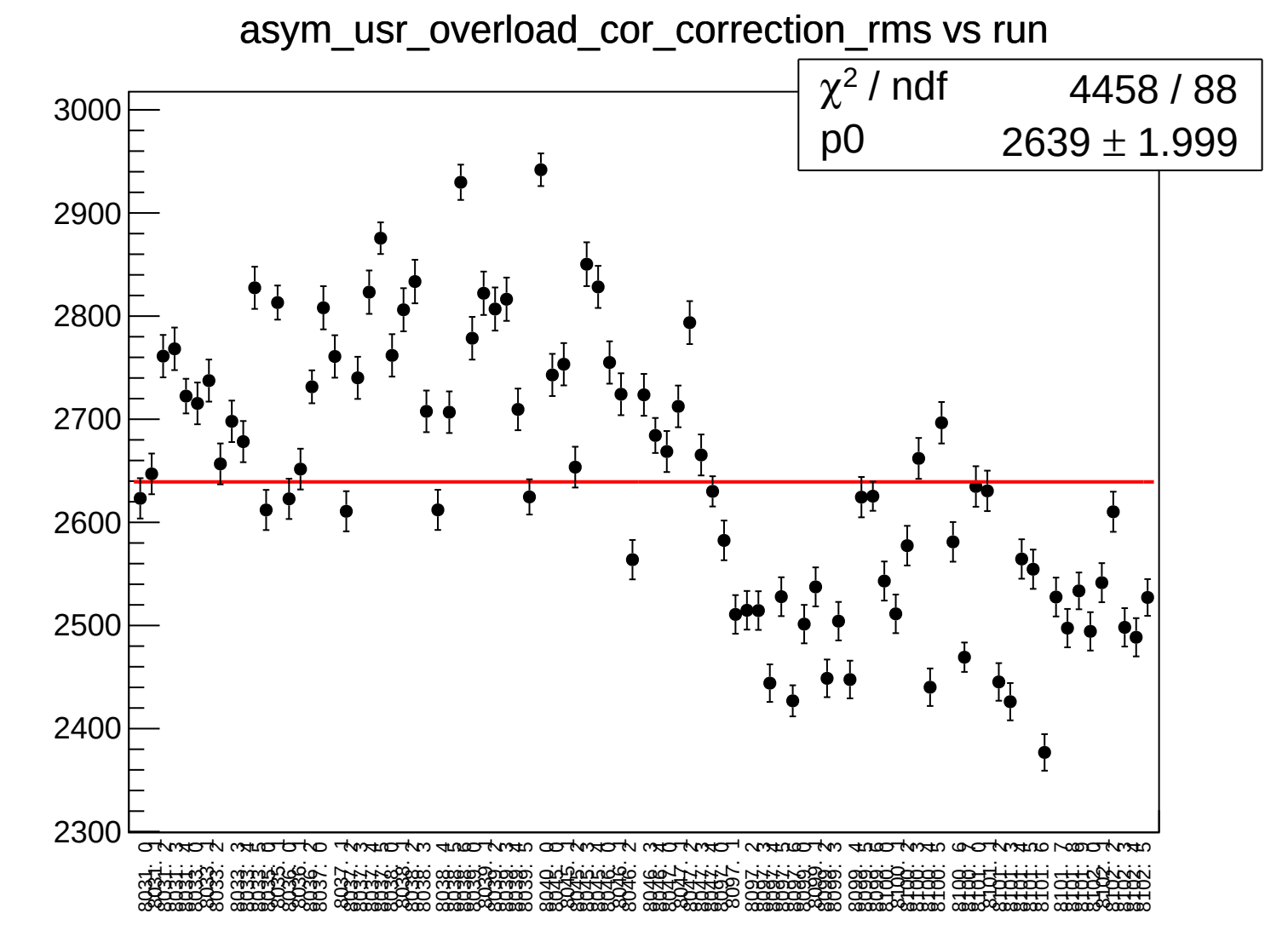

overload_cor_asym_usr_mean vs run
χ² / ndf 73.96 / 88
p0 2718 ± 1151
pull
Entries 89
Mean 770.8
Std Dev 0

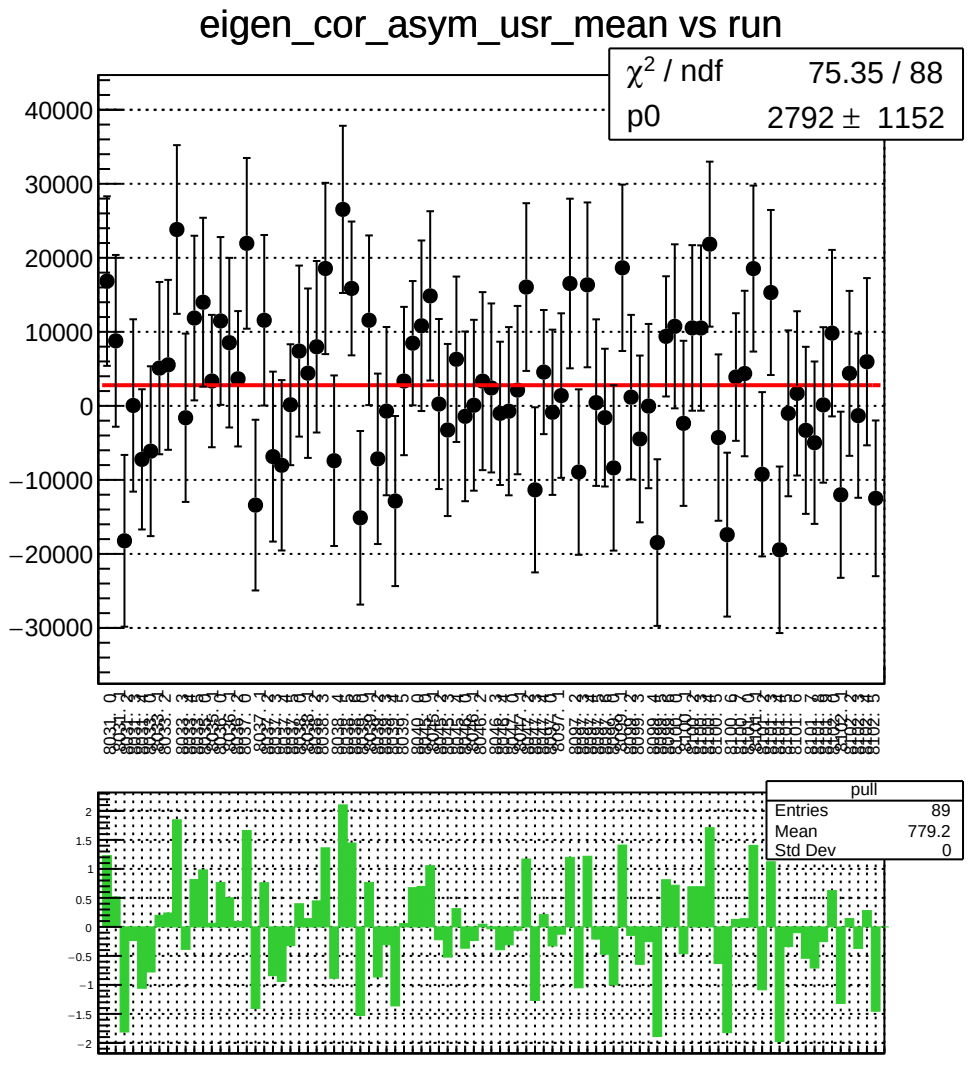

pull1D
Entries 89
Mean −0.005227
Std Dev 0.9116

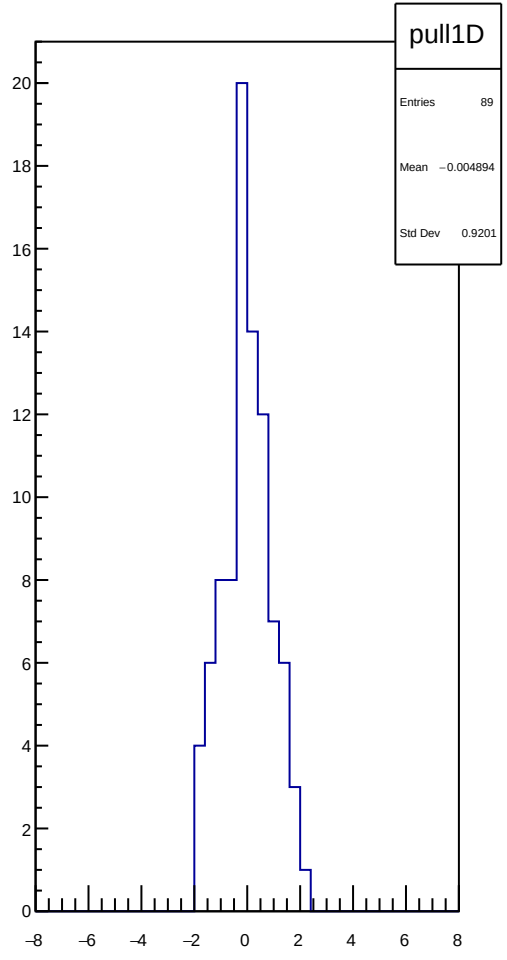

overload_cor_asym_usr_rms vs run
χ² / ndf 481 / 88
p0 1075 ± 0.8135
1140
1120
1100
1080
1060
1040
1020

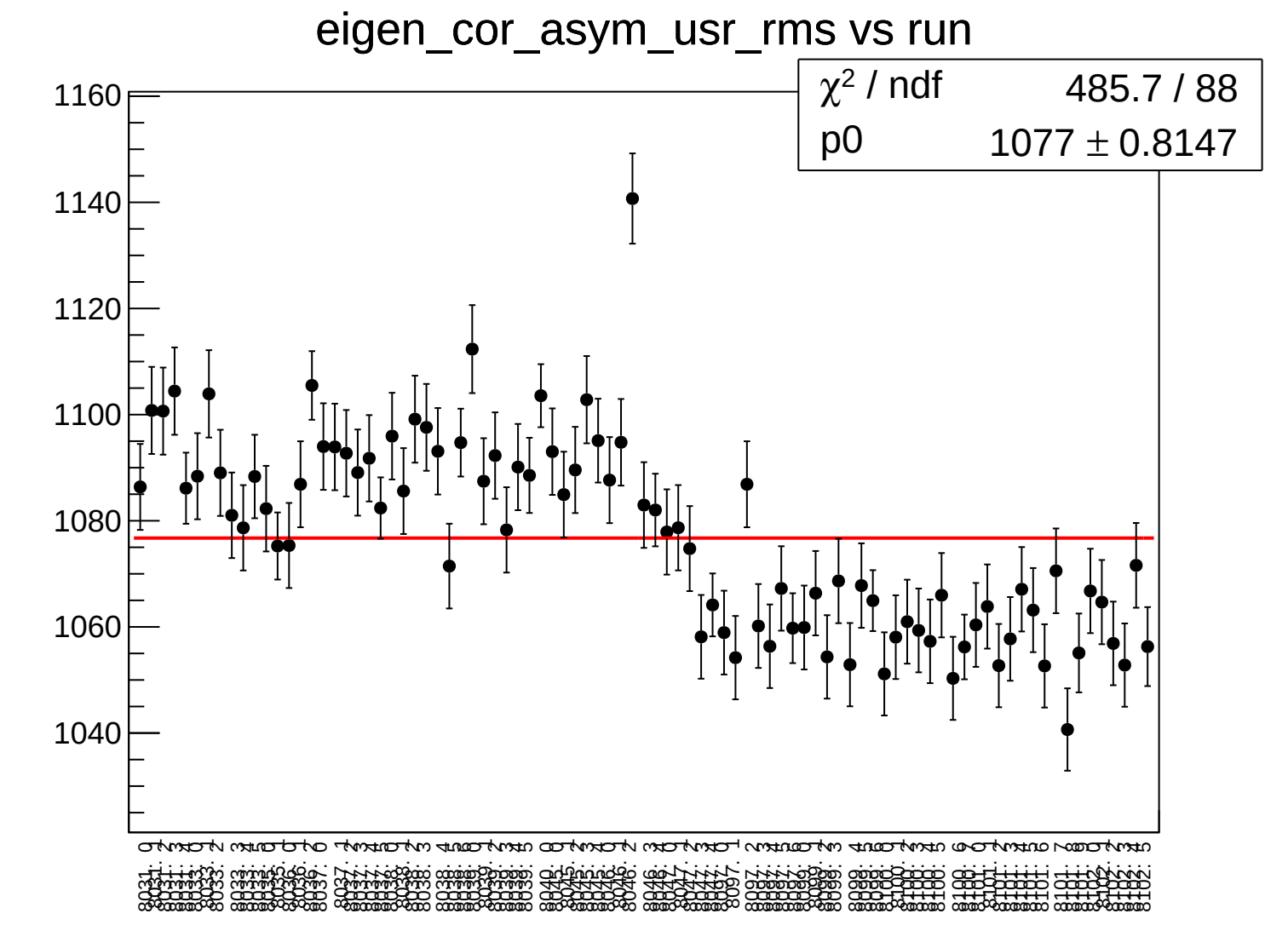

asym_usr_overload_cor_correction_mean vs run
×10^3
χ^2 / ndf 90.57 / 88
p0 1889 ± 2827
150
100
50
0
−50
−100
pull
Entries 89
Mean −230.7
Std Dev 0
3
2
1
0
−1
−2

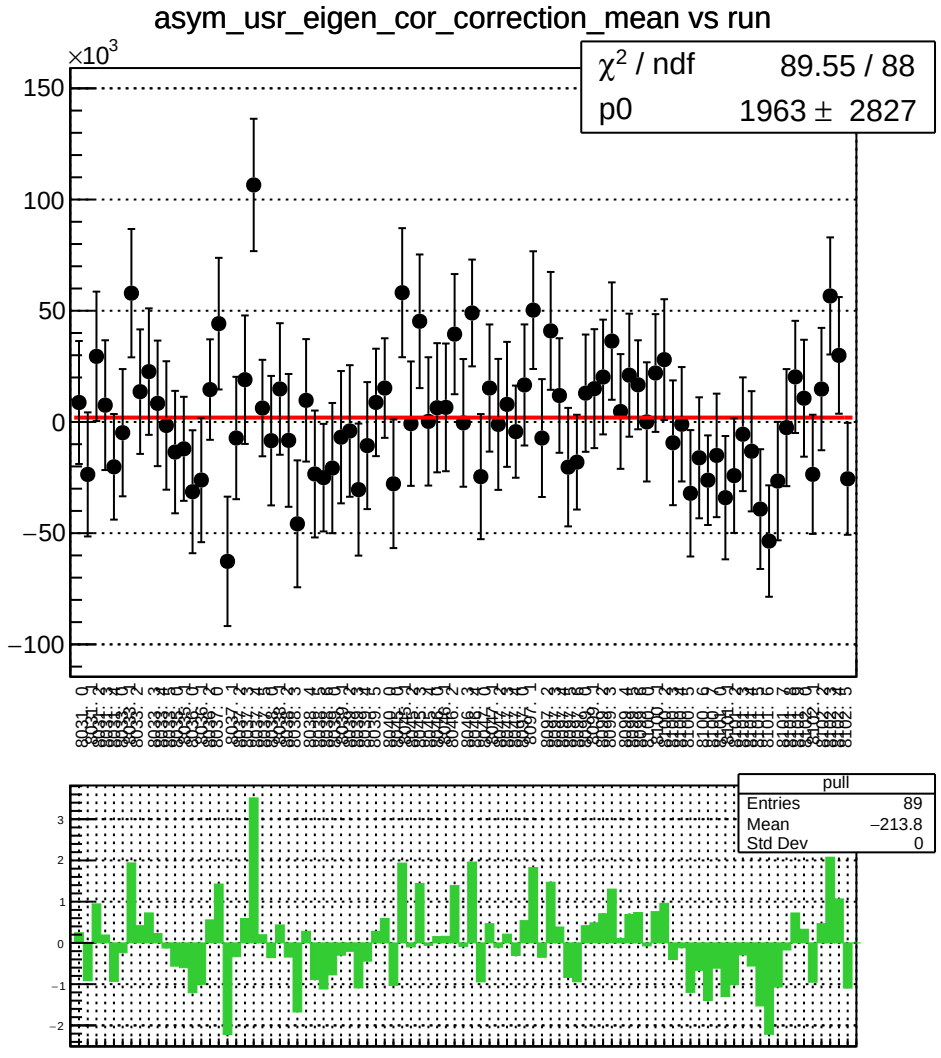

pull1D
Entries 89
Mean 0.006691
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

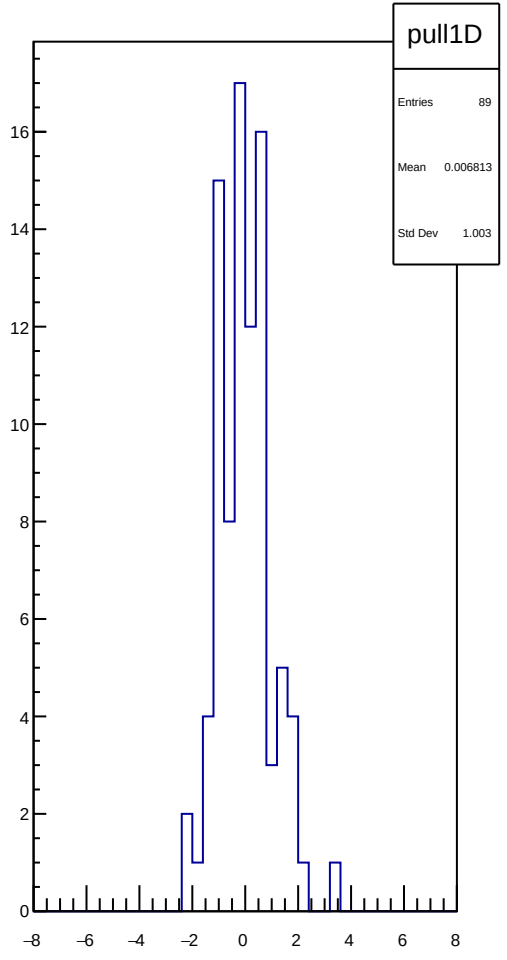

asym_usr_overload_cor_correction_rms vs run
χ² / ndf 4458 / 88
p0 2639 ± 1.999
3000
2900
2800
2700
2600
2500
2400
2300


eigen_cor_asym_usr_mean vs run
χ² / ndf 75.35 / 88
p0 2792 ± 1152
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 779.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 89
Mean −0.004894
Std Dev 0.9201
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_usr_rms vs run
χ² / ndf 485.7 / 88
p0 1077 ± 0.8147
1160
1140
1120
1100
1080
1060
1040


asym_usr_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 89.55 / 88
p0 1963 ± 2827
150
100
50
0
−50
−100
pull
Entries 89
Mean −213.8
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 89
Mean 0.006813
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
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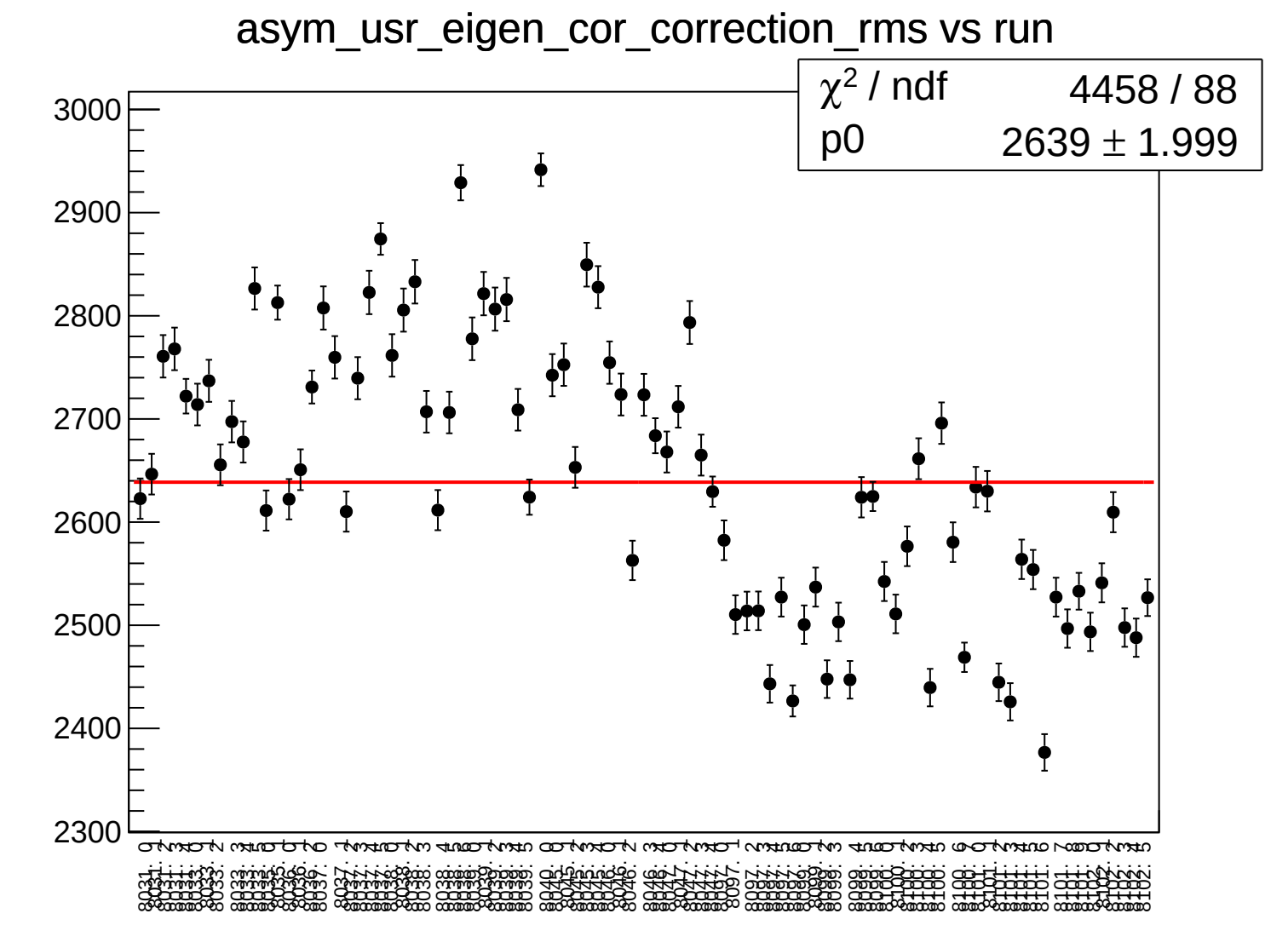
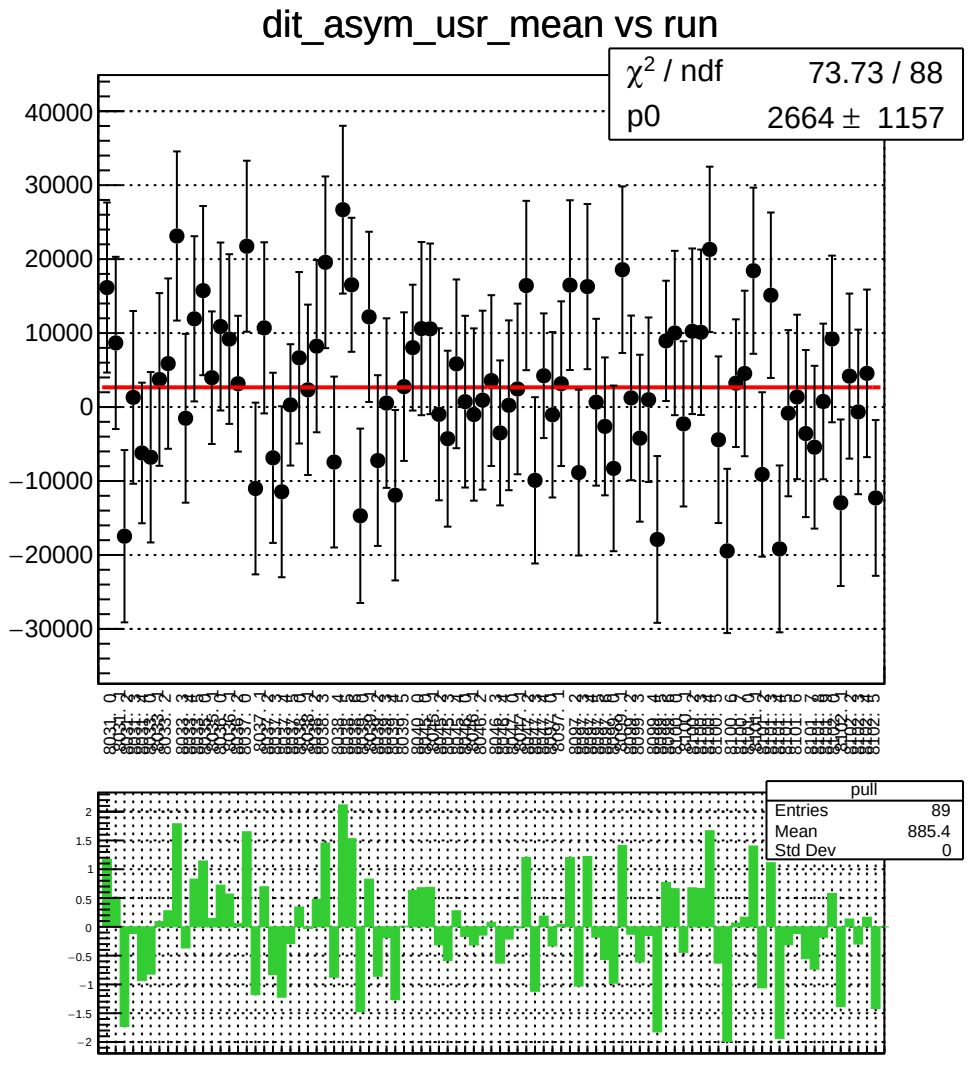
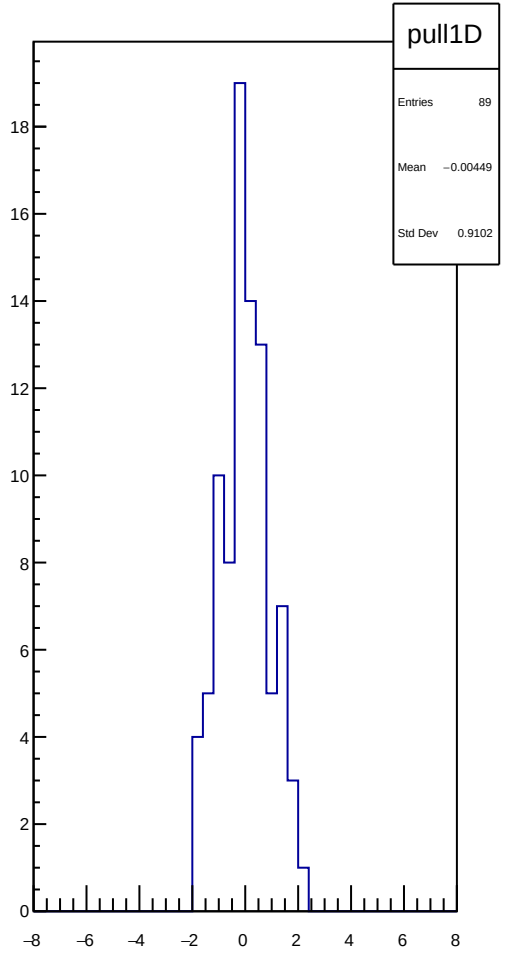
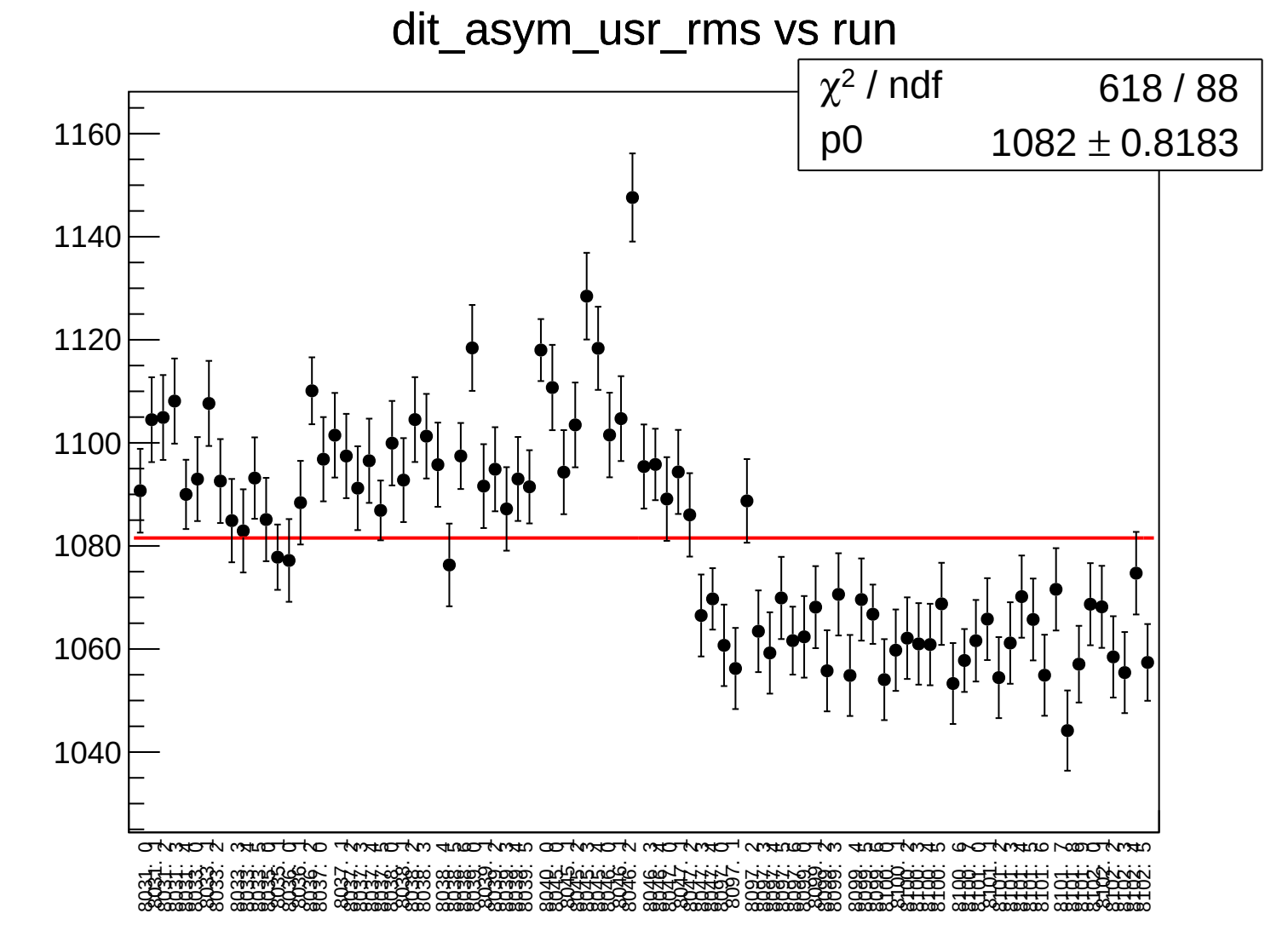
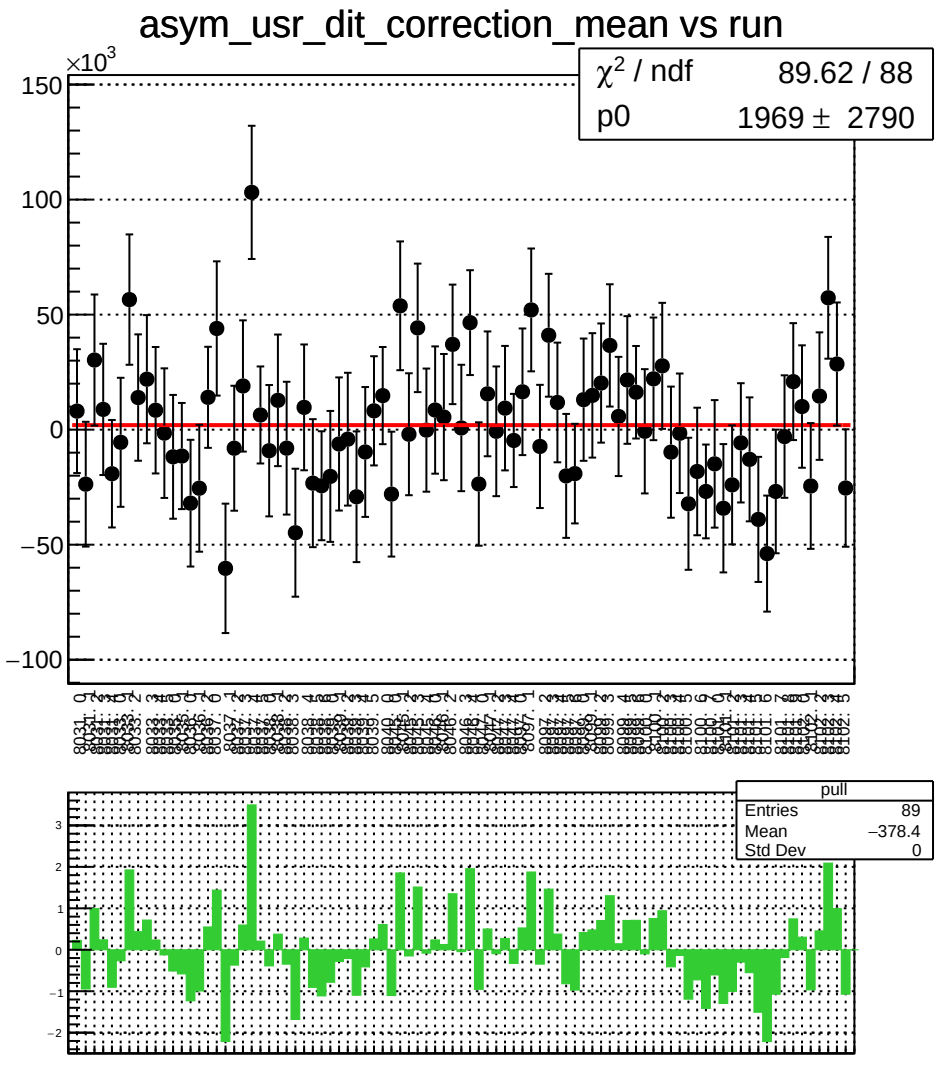
0
2
4
6
8

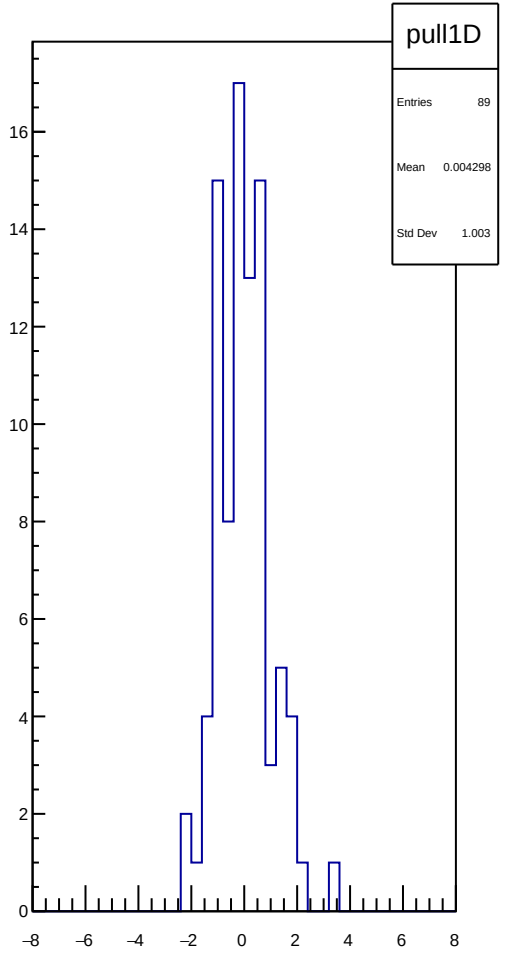

asym_usr_eigen_cor_correction_rms vs run
χ² / ndf 4458 / 88
p0 2639 ± 1.999
3000
2900
2800
2700
2600
2500
2400
2300

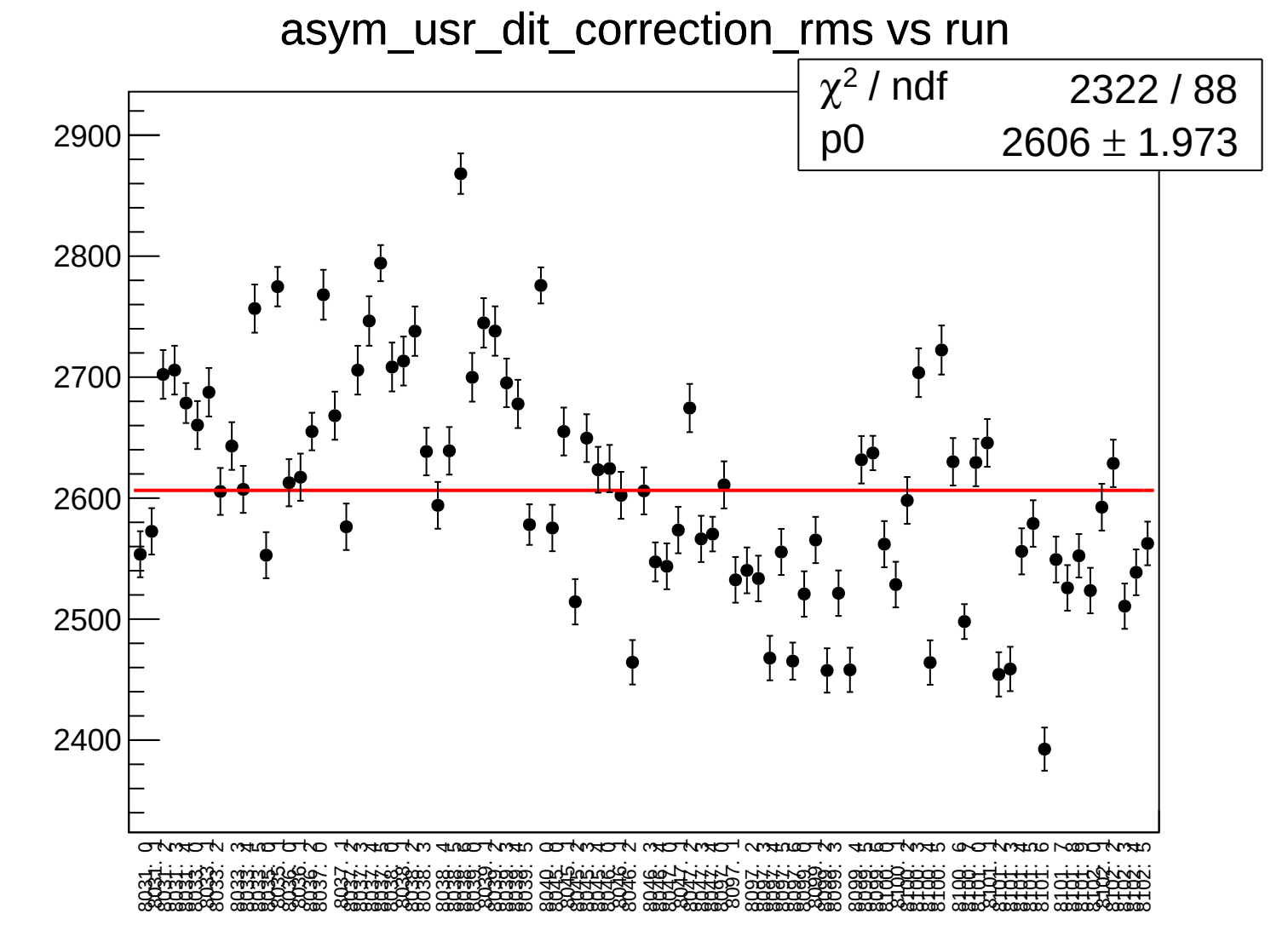

dit_asym_usr_mean vs run
χ² / ndf 73.73 / 88
p0 2664 ± 1157
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 885.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

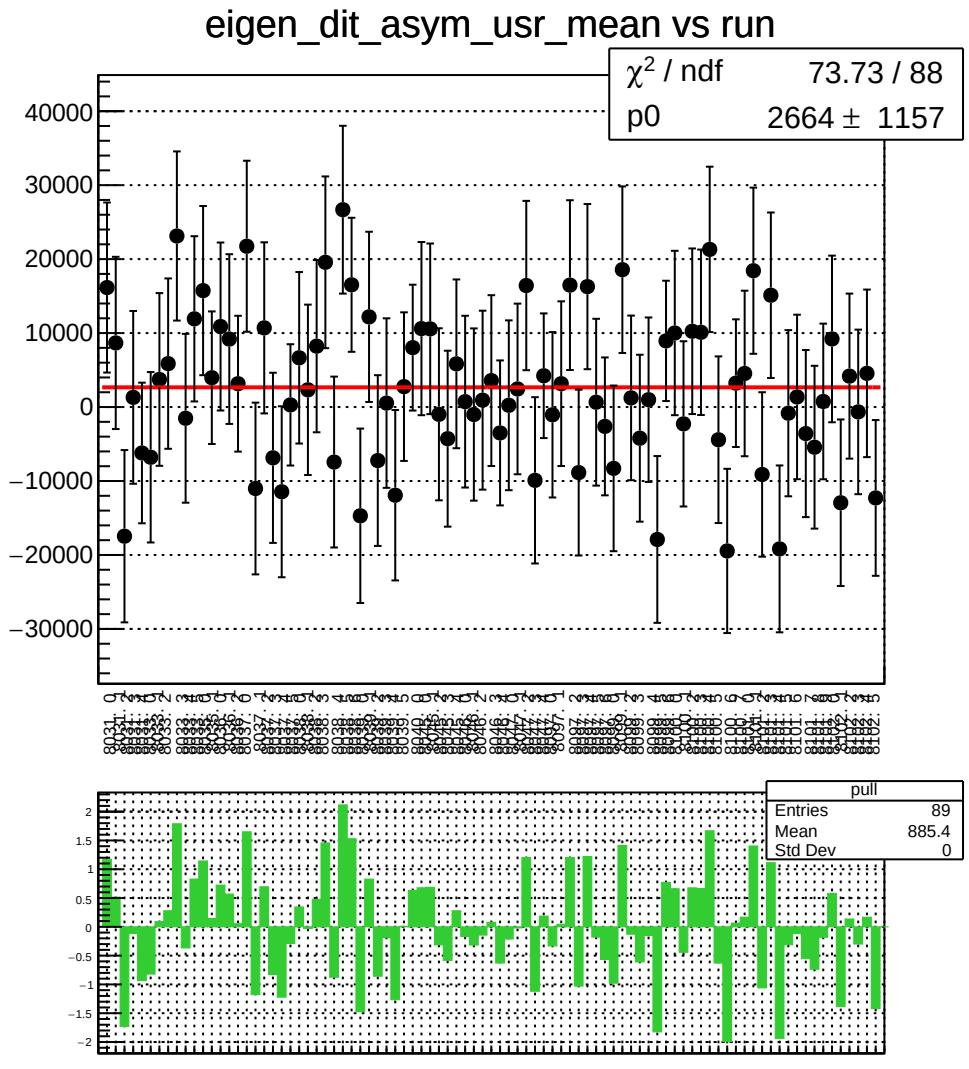

pull1D
Entries 89
Mean −0.00449
Std Dev 0.9102
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

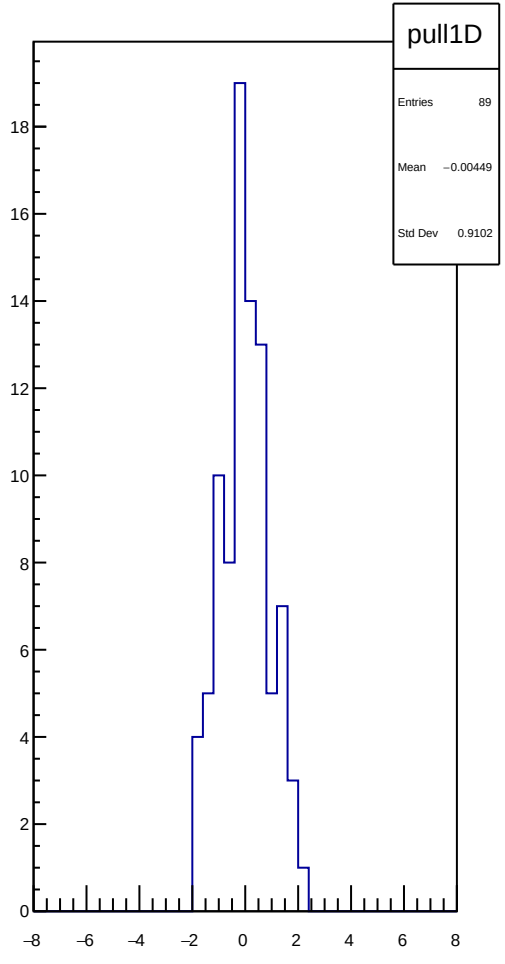

dit_asym_usr_rms vs run
χ² / ndf 618 / 88
p0 1082 ± 0.8183
1160
1140
1120
1100
1080
1060
1040

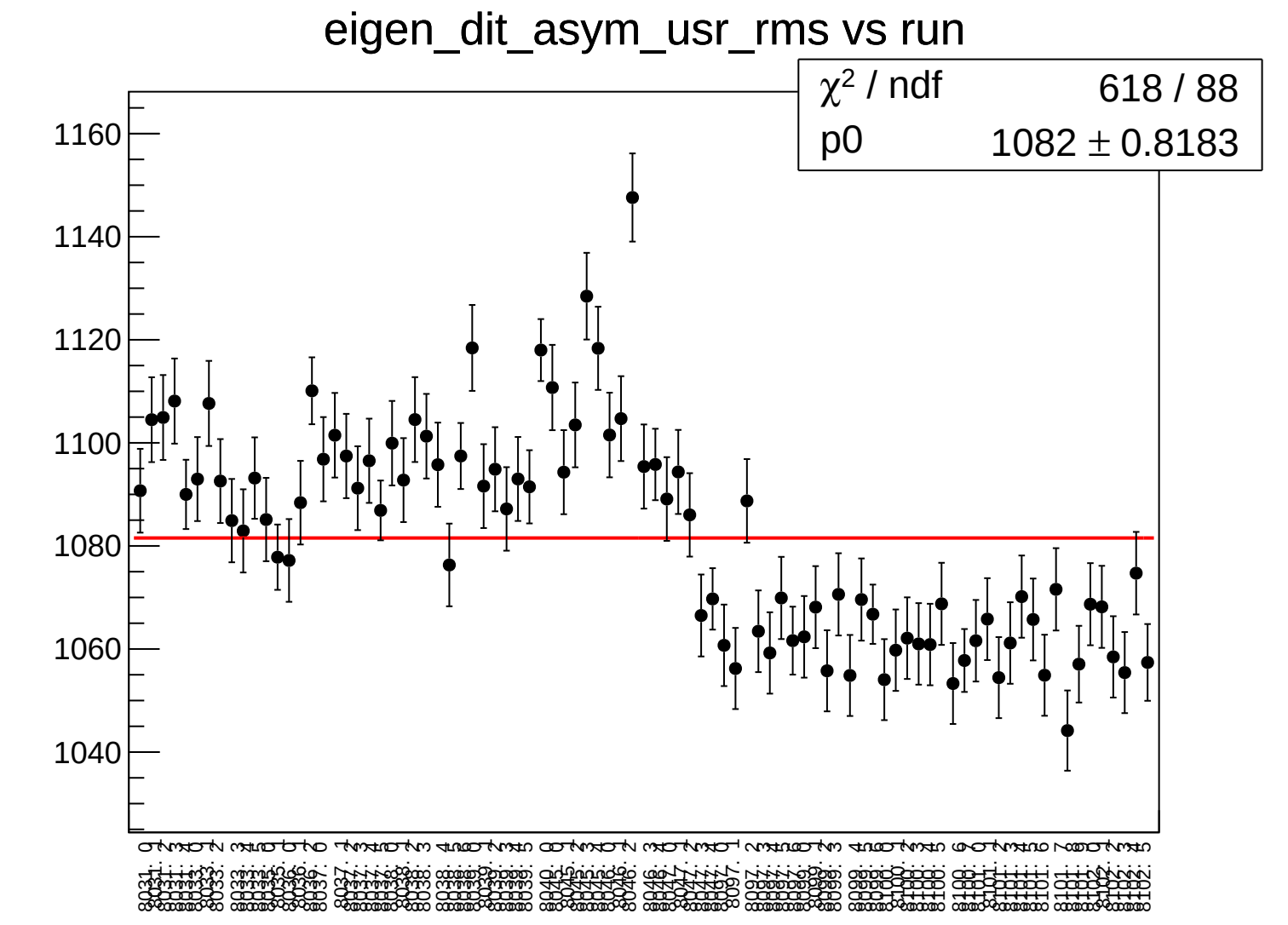

asym_usr_dit_correction_mean vs run
×10^3
χ² / ndf 89.62 / 88
p0 1969 ± 2790
150
100
50
0
−50
−100
pull
Entries 89
Mean −378.4
Std Dev 0
3
2
1
0
−1
−2

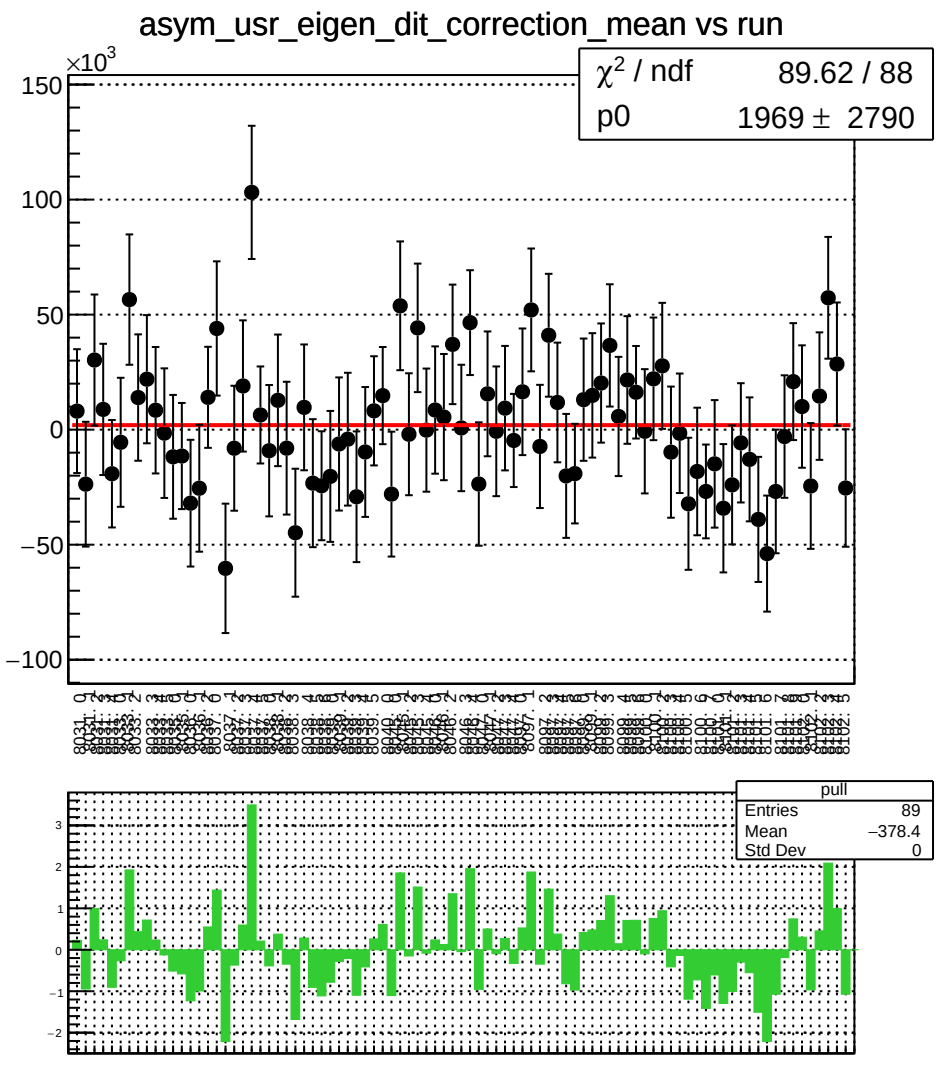

pull1D
Entries 89
Mean 0.004298
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

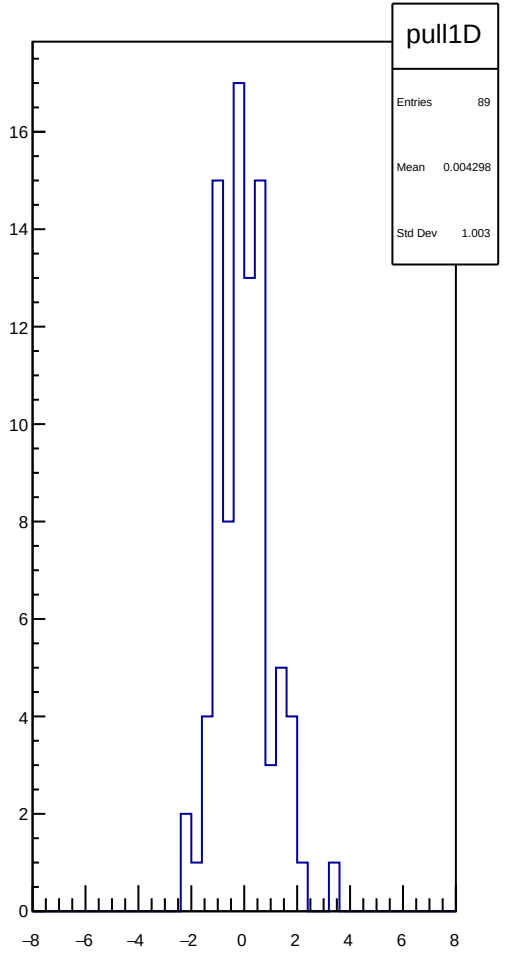

asym_usr_dit_correction_rms vs run
χ² / ndf 2322 / 88
p0 2606 ± 1.973
2900
2800
2700
2600
2500
2400

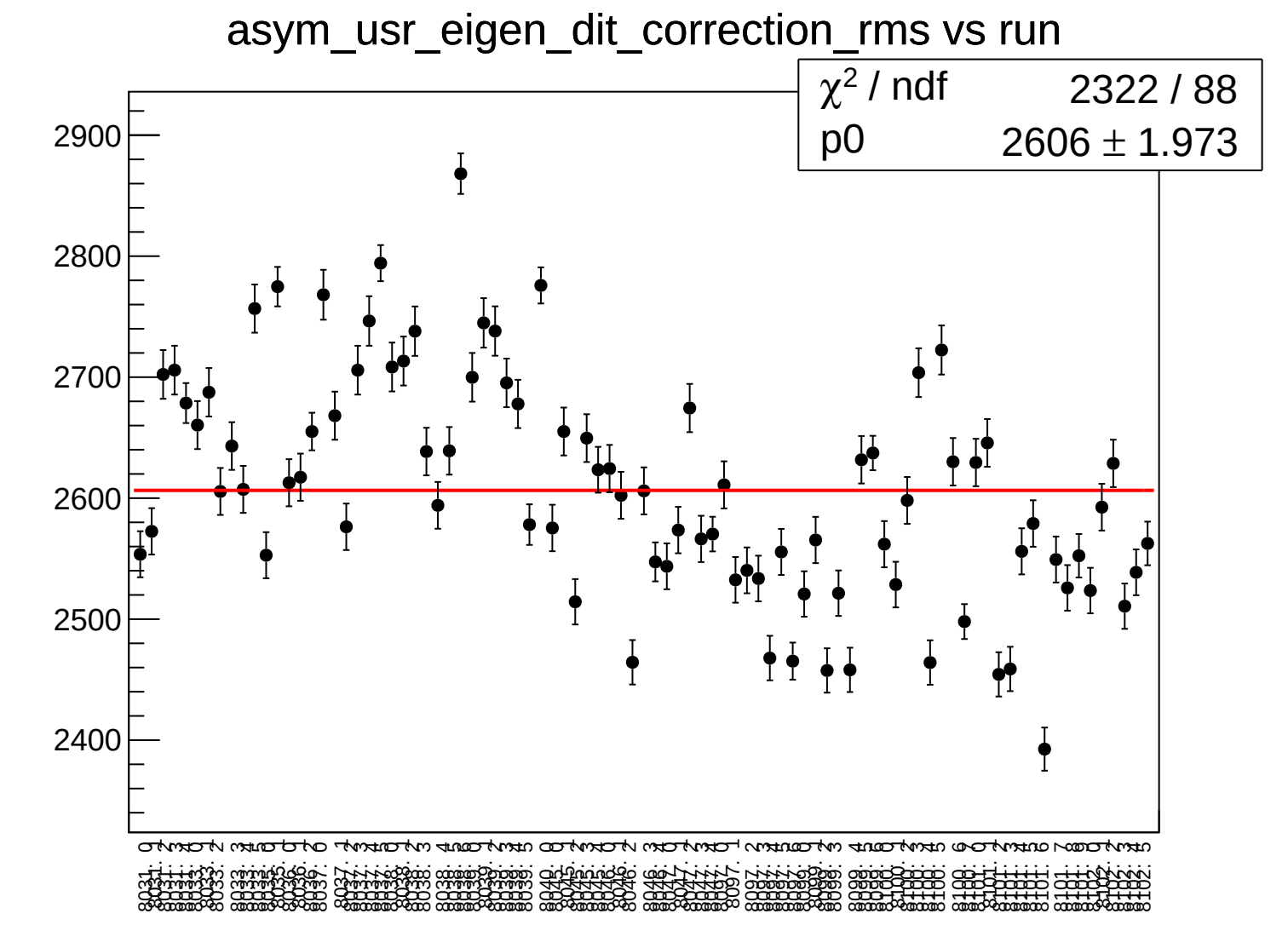

eigen_dit_asym_usr_mean vs run
χ² / ndf 73.73 / 88
p0 2664 ± 1157
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 885.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

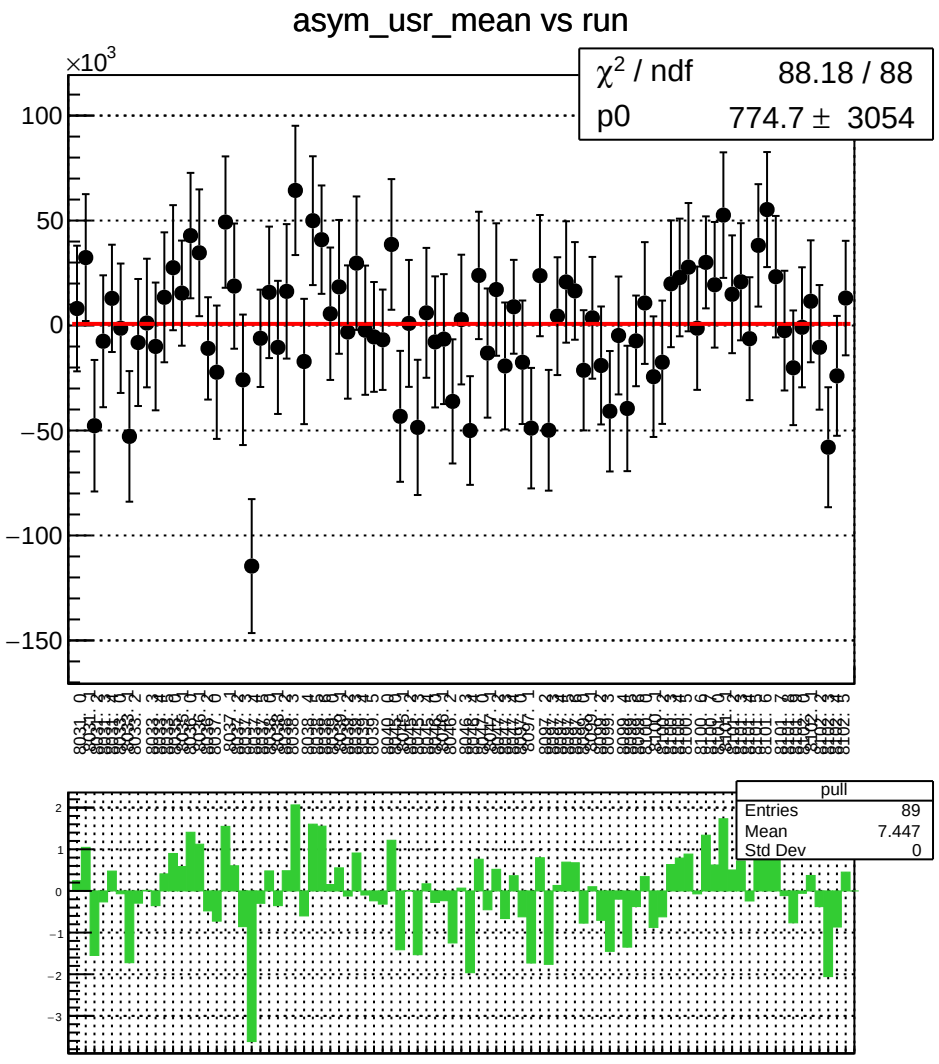

pull1D
Entries 89
Mean −0.00449
Std Dev 0.9102
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

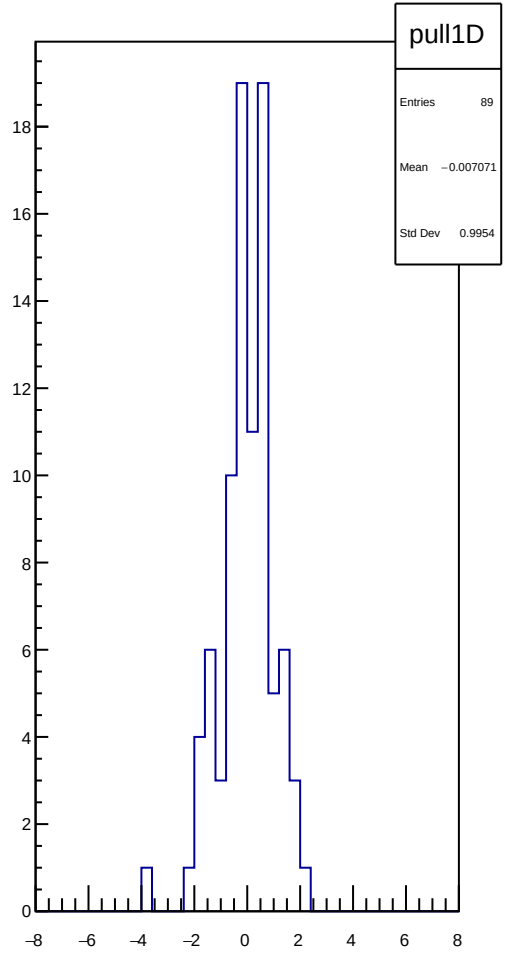

eigen_dit_asym_usr_rms vs run
χ² / ndf 618 / 88
p0 1082 ± 0.8183
1160
1140
1120
1100
1080
1060
1040

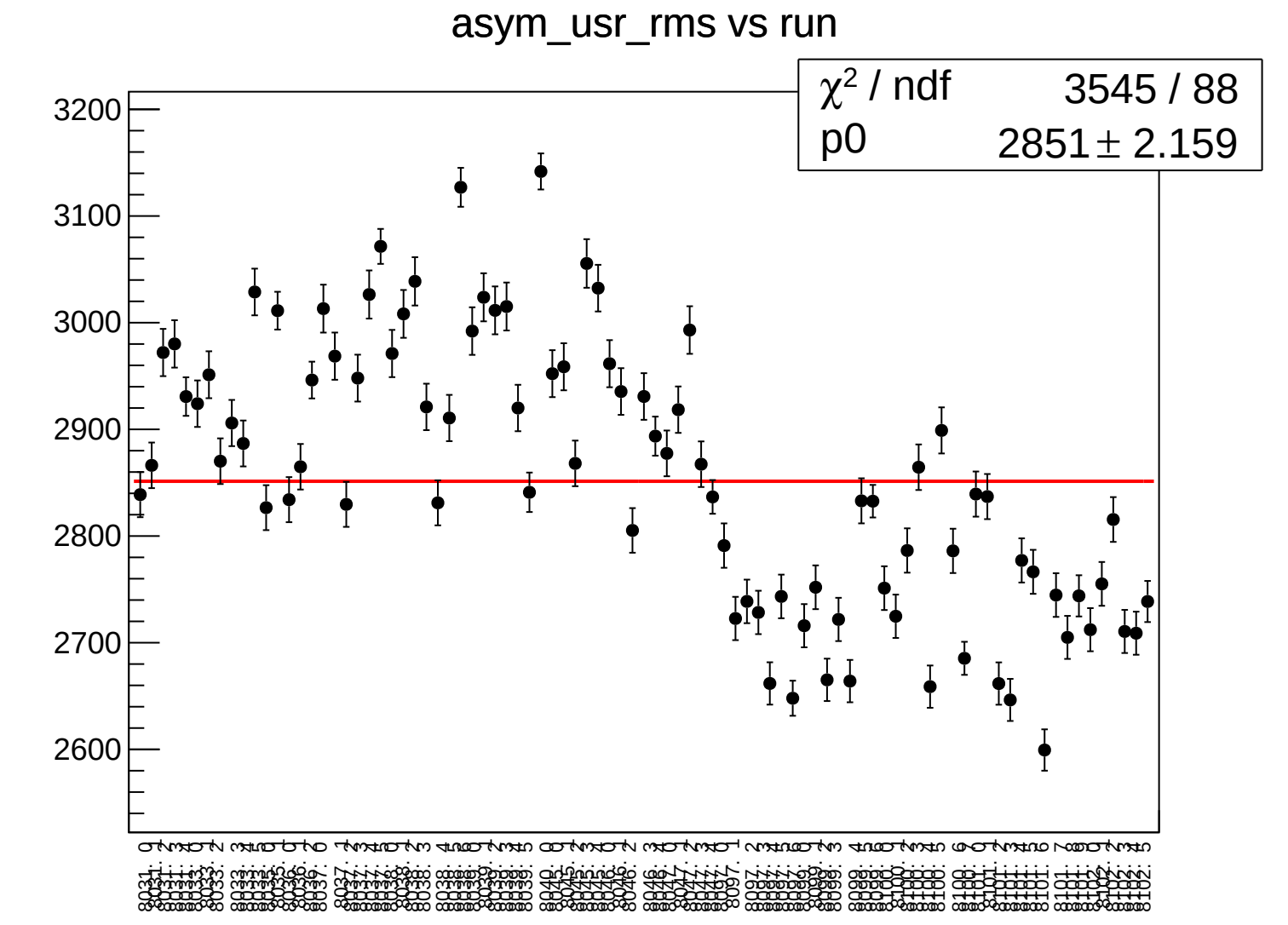

asym_usr_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 89.62 / 88
p0 1969 ± 2790
150
100
50
0
−50
−100
pull
Entries 89
Mean −378.4
Std Dev 0
3
2
1
0
−1
−2

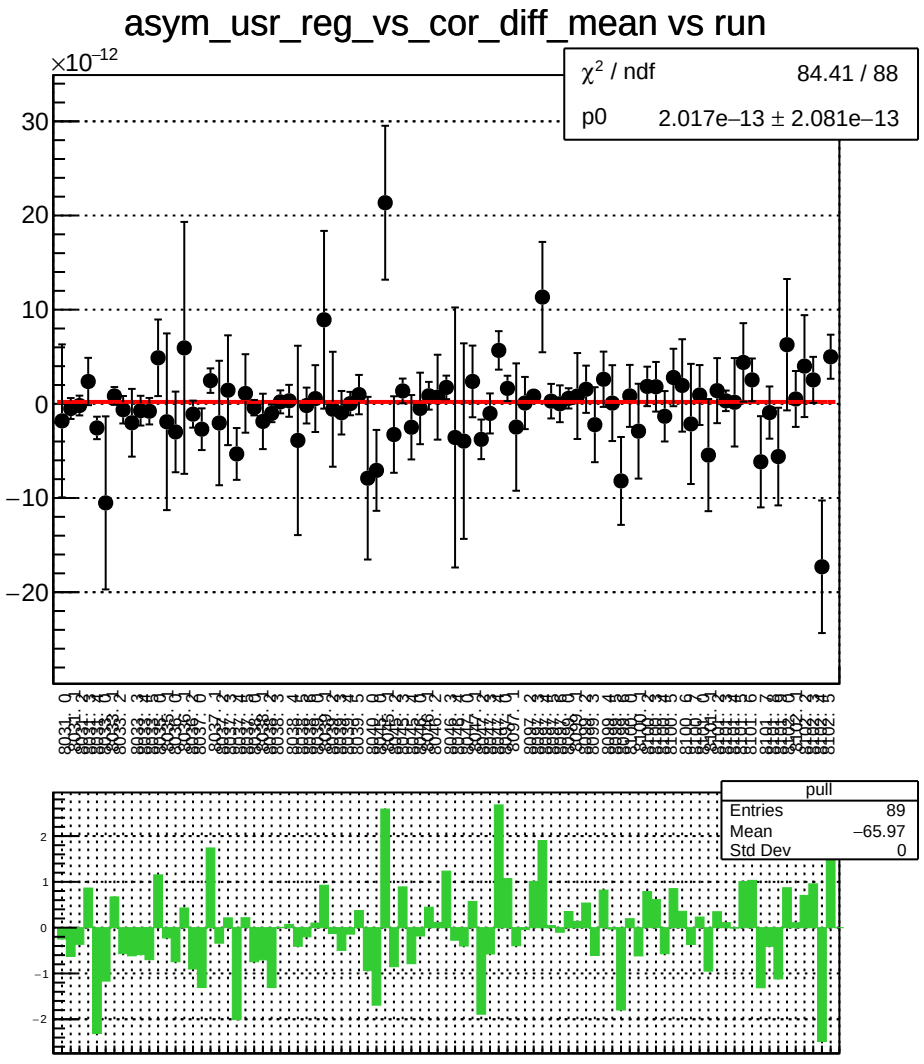

pull1D
Entries 89
Mean 0.004298
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

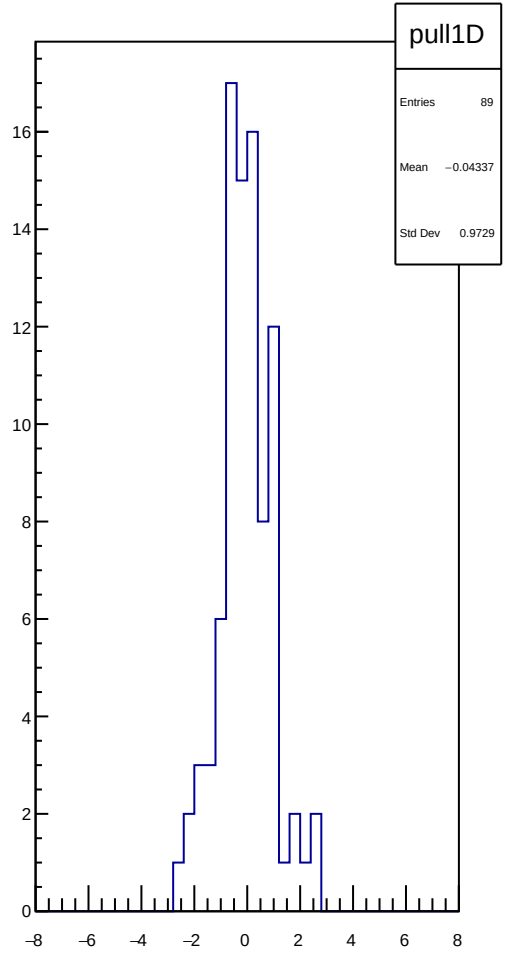

asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 2322 / 88
p0 2606 ± 1.973
2900
2800
2700
2600
2500
2400

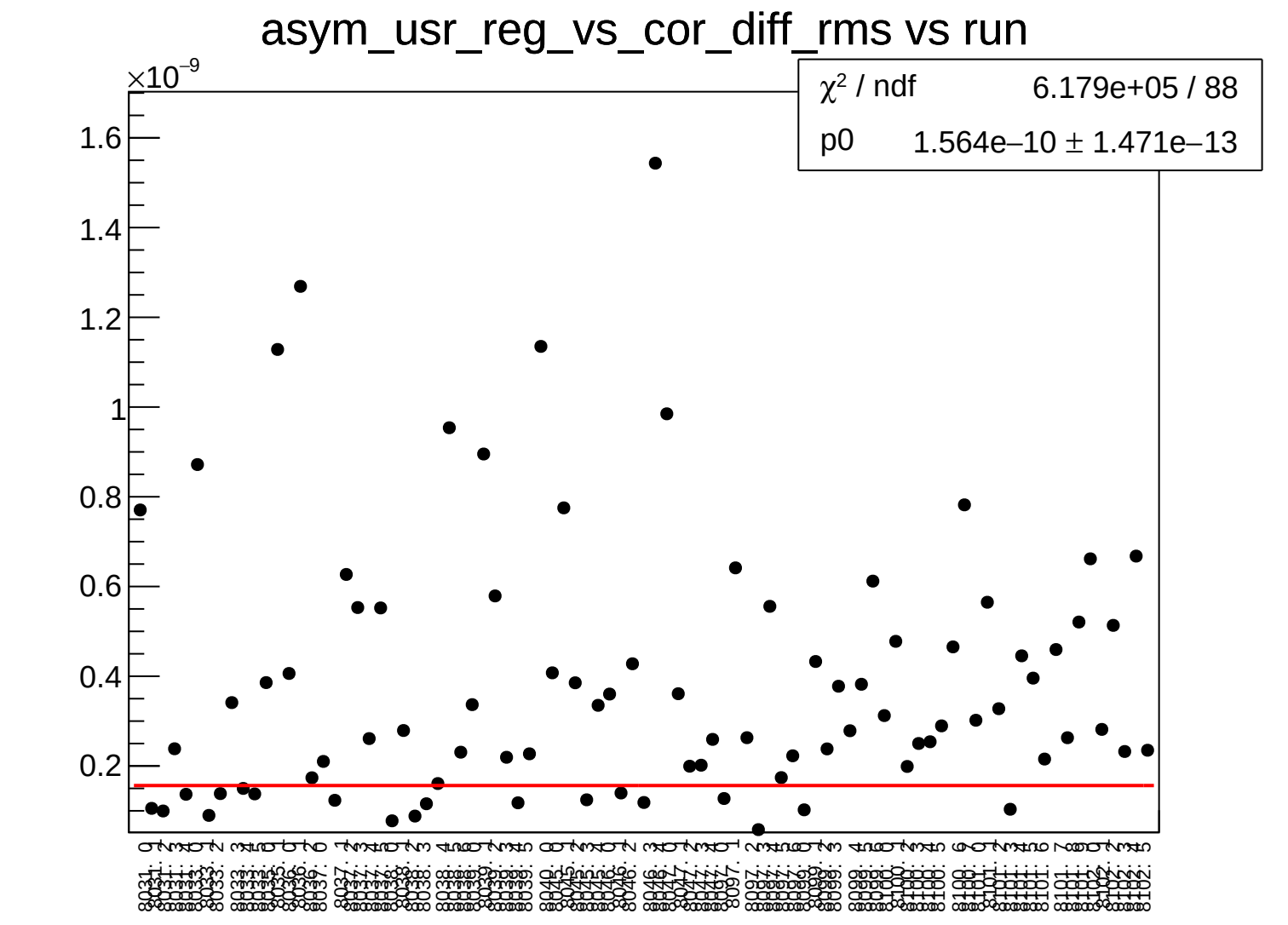

asym_usr_mean vs run
×10^3
χ² / ndf 88.18 / 88
p0 774.7 ± 3054
100
50
0
−50
−100
−150
pull
Entries 89
Mean 7.447
Std Dev 0
2
1
0
−1
−2
−3

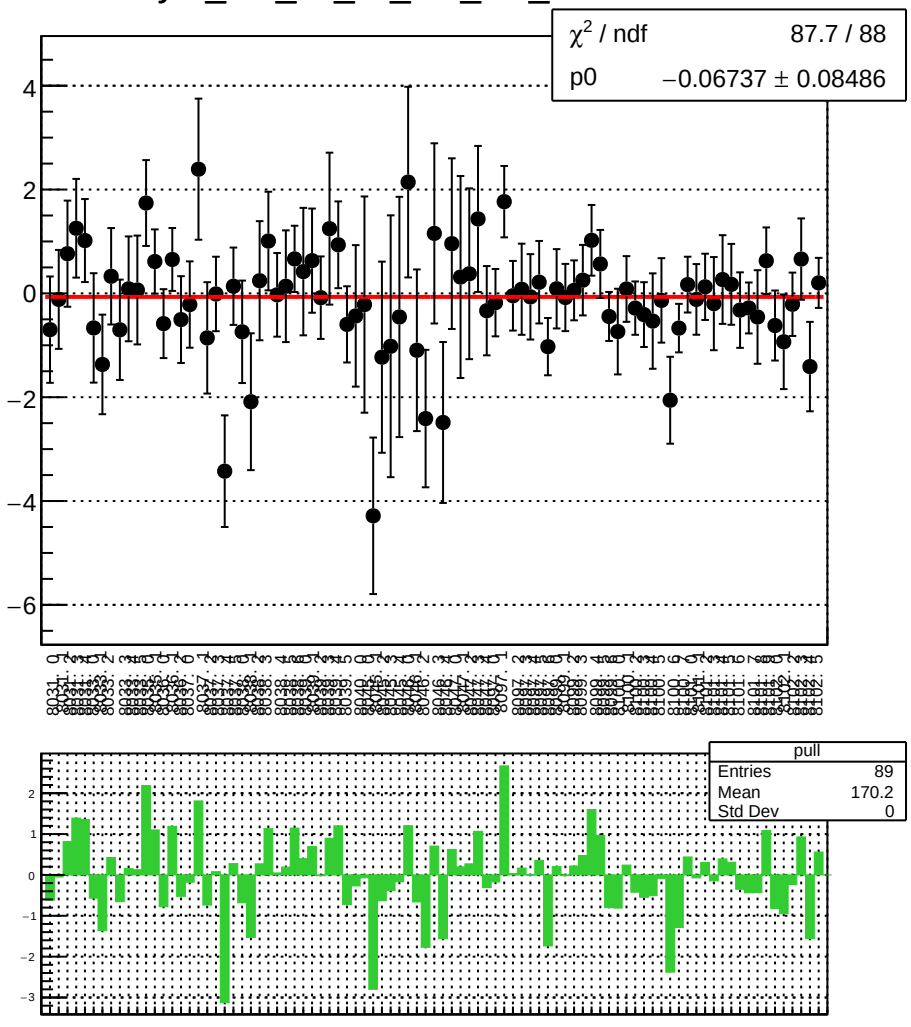

pull1D
Entries 89
Mean −0.007071
Std Dev 0.9954
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

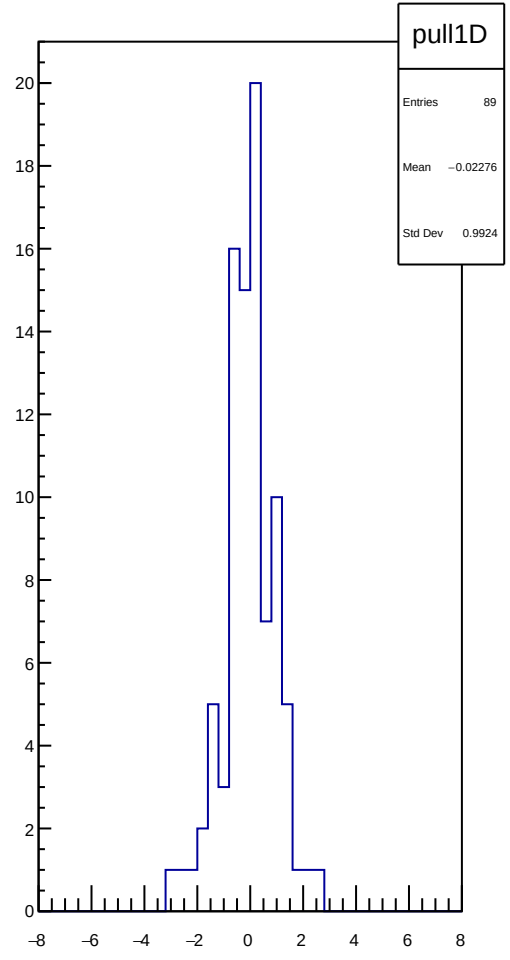

asym_usr_rms vs run
χ² / ndf 3545 / 88
p0 2851 ± 2.159
3200
3100
3000
2900
2800
2700
2600

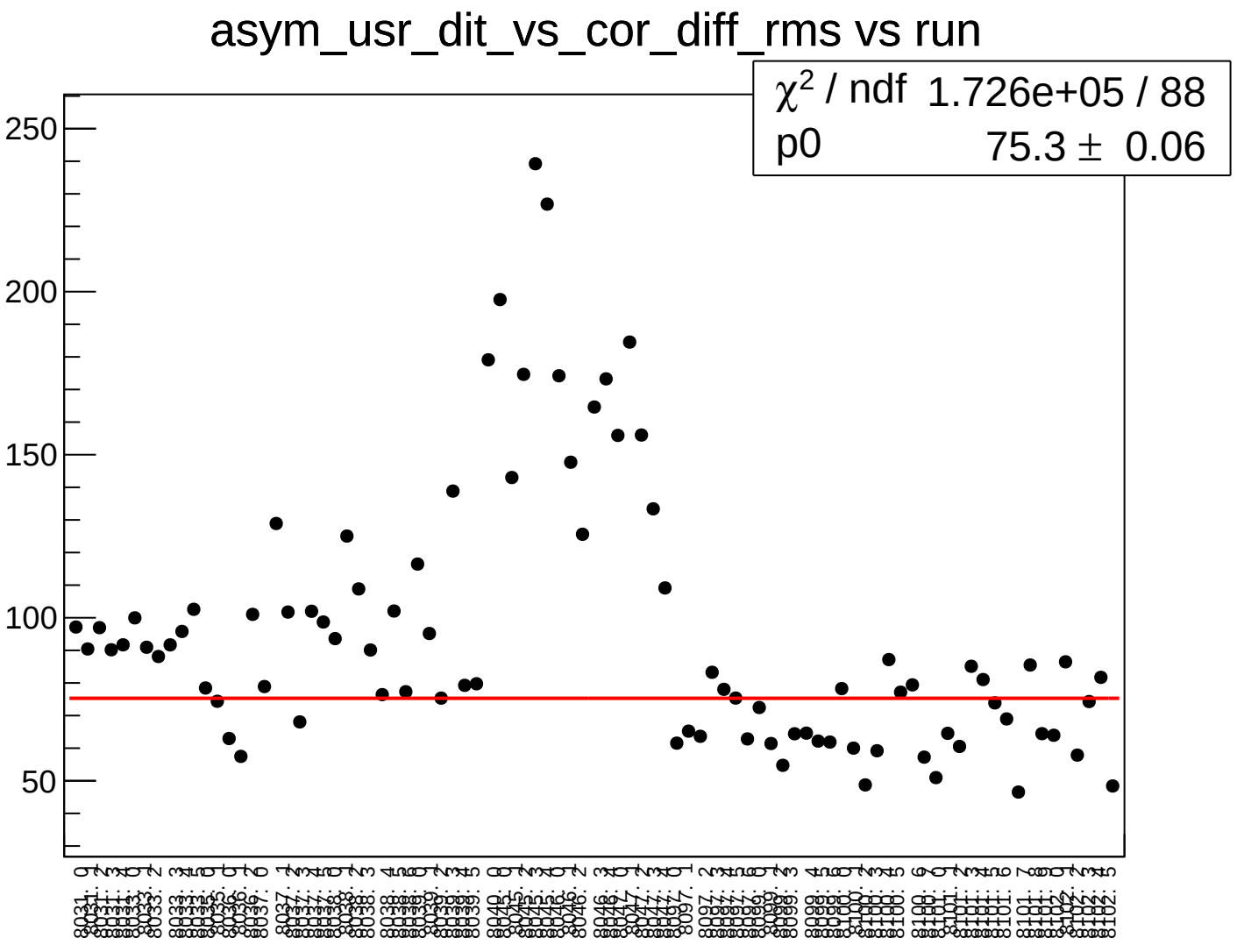

asym_usr_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.41 / 88
p0 2.017e−13 ± 2.081e−13
30
20
10
0
−10
−20
pull
Entries 89
Mean −65.97
Std Dev 0
2
1
0
−1
−2

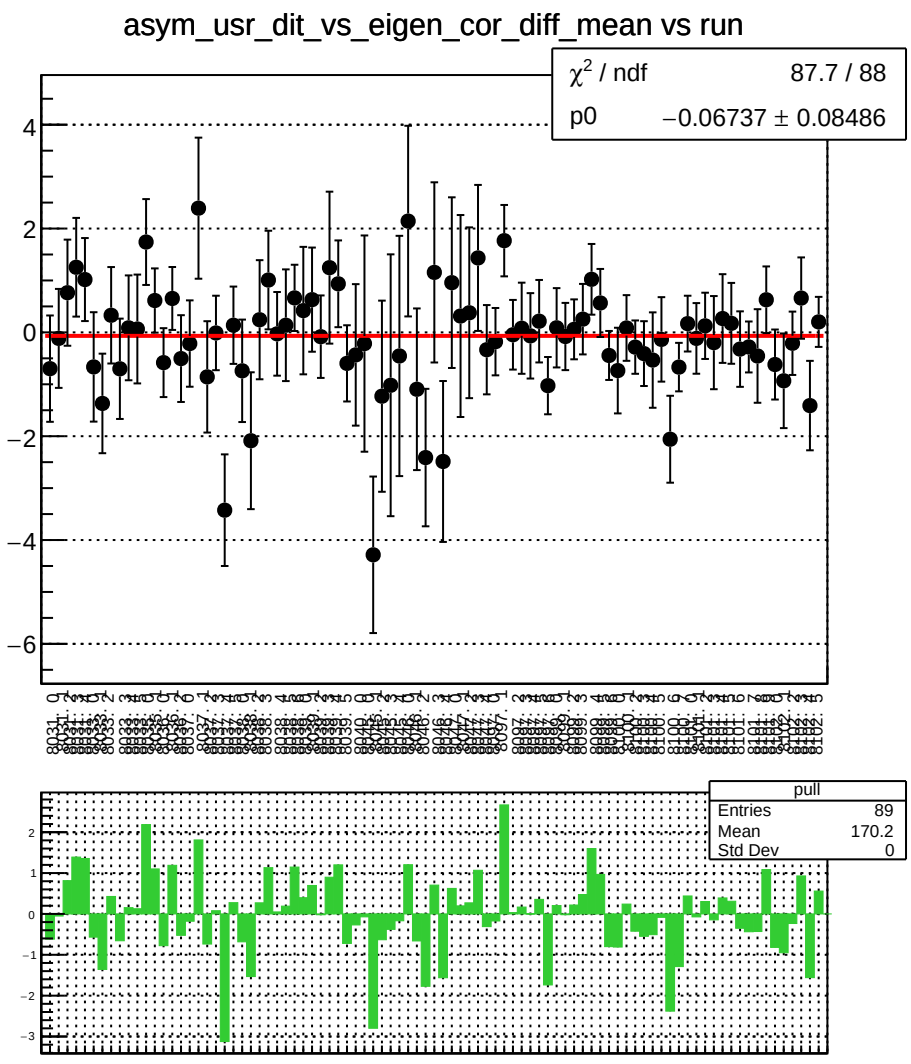

pull1D
Entries 89
Mean −0.04337
Std Dev 0.9729
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

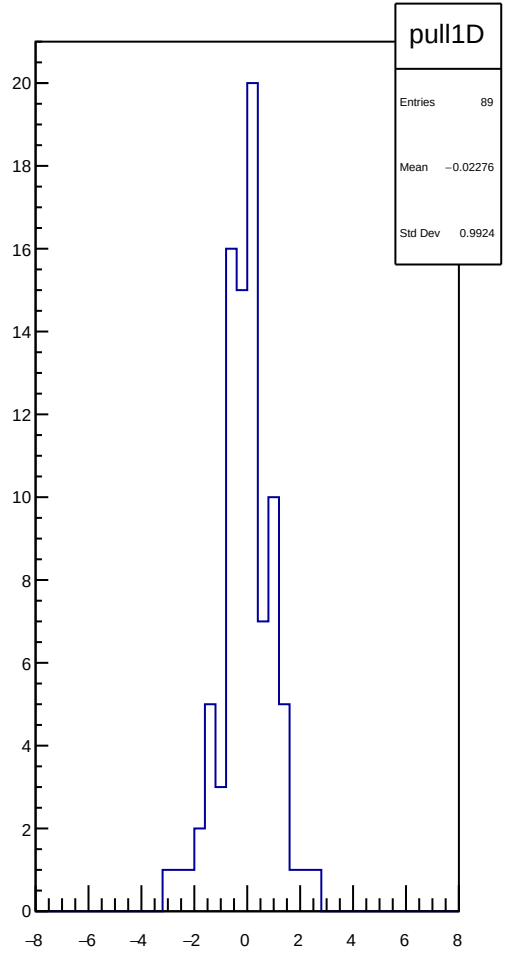

asym_usr_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.179e+05 / 88
p0 1.564e−10 ± 1.471e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

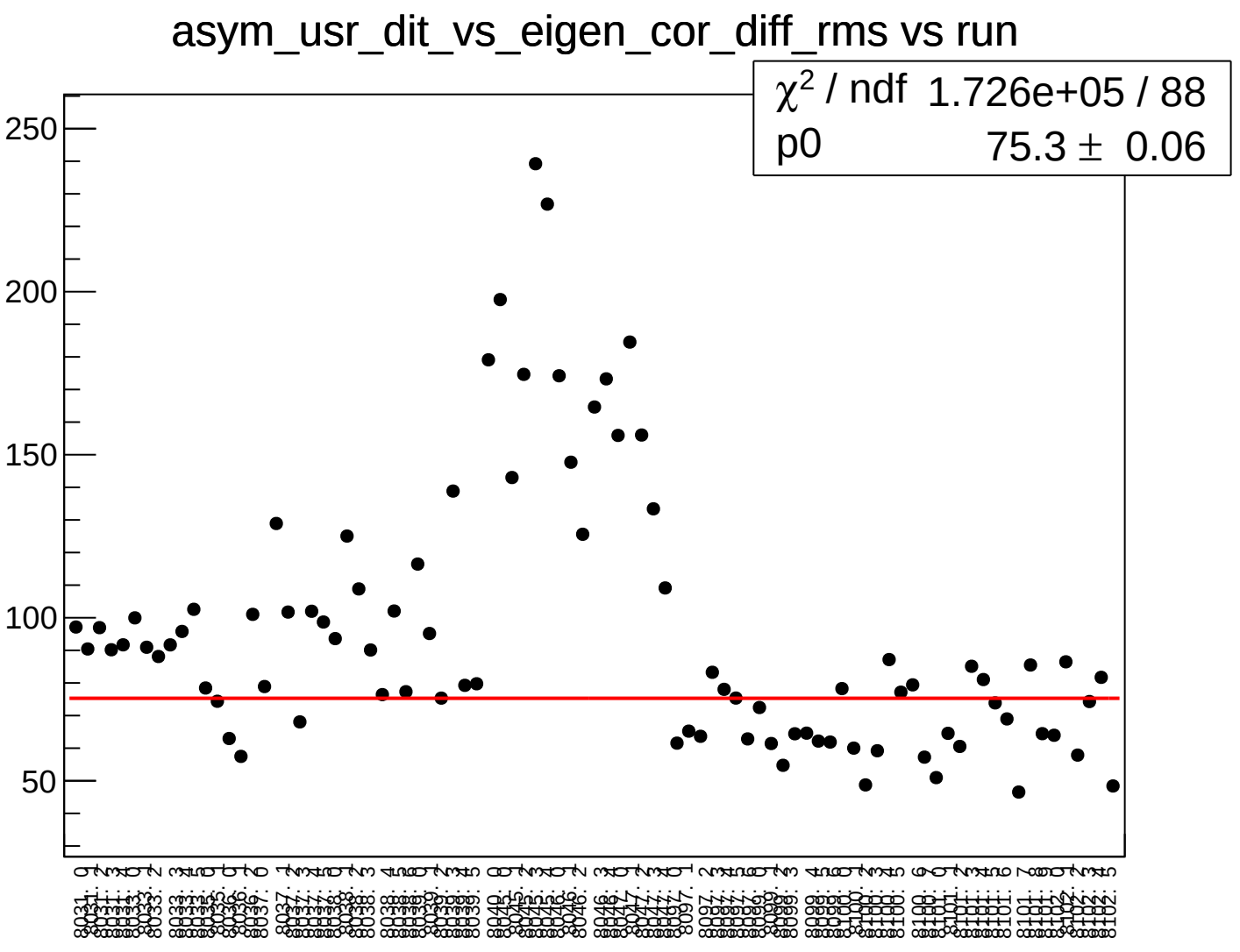

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 87.7 / 88
p0 −0.06737 ± 0.08486
pull
Entries 89
Mean 170.2
Std Dev 0

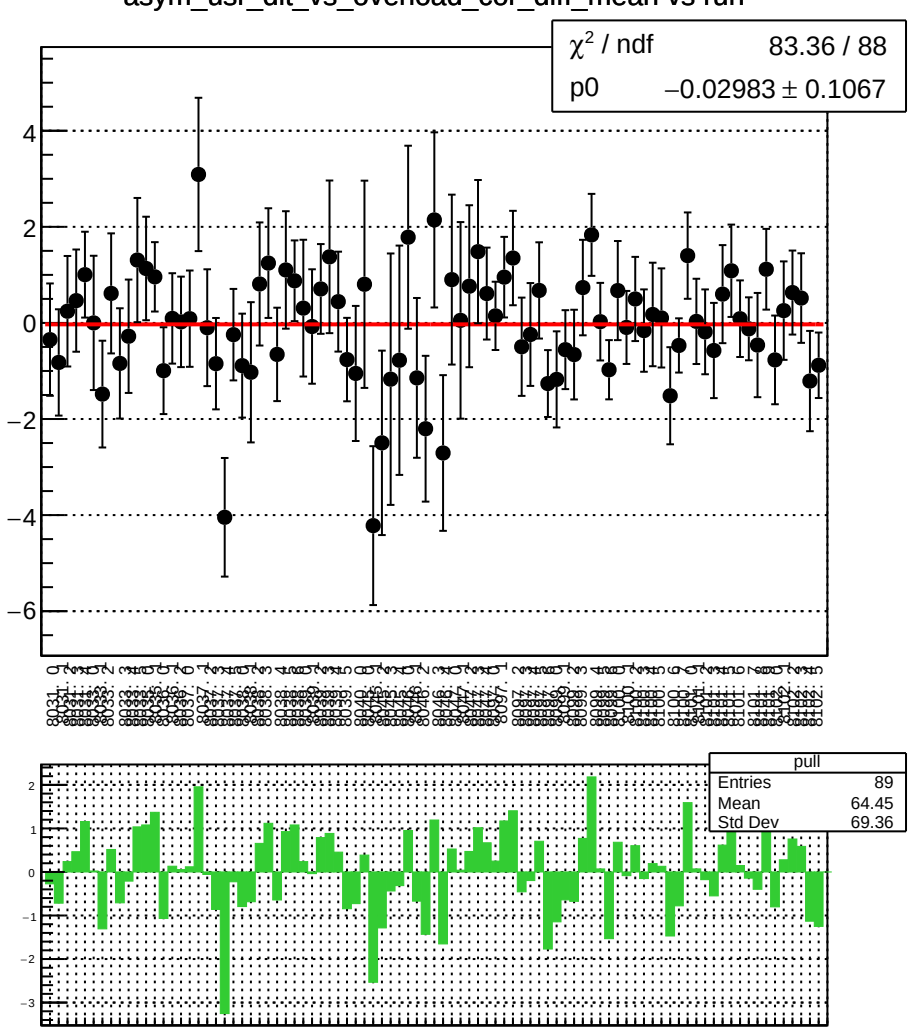

pull1D
Entries 89
Mean −0.02276
Std Dev 0.9924

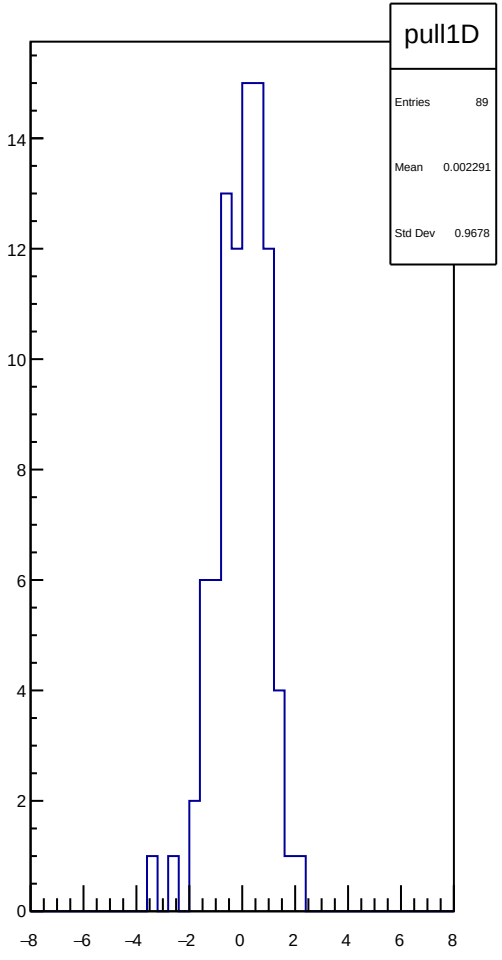

asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 1.726e+05 / 88
p0 75.3 ± 0.06
250
200
150
100
50

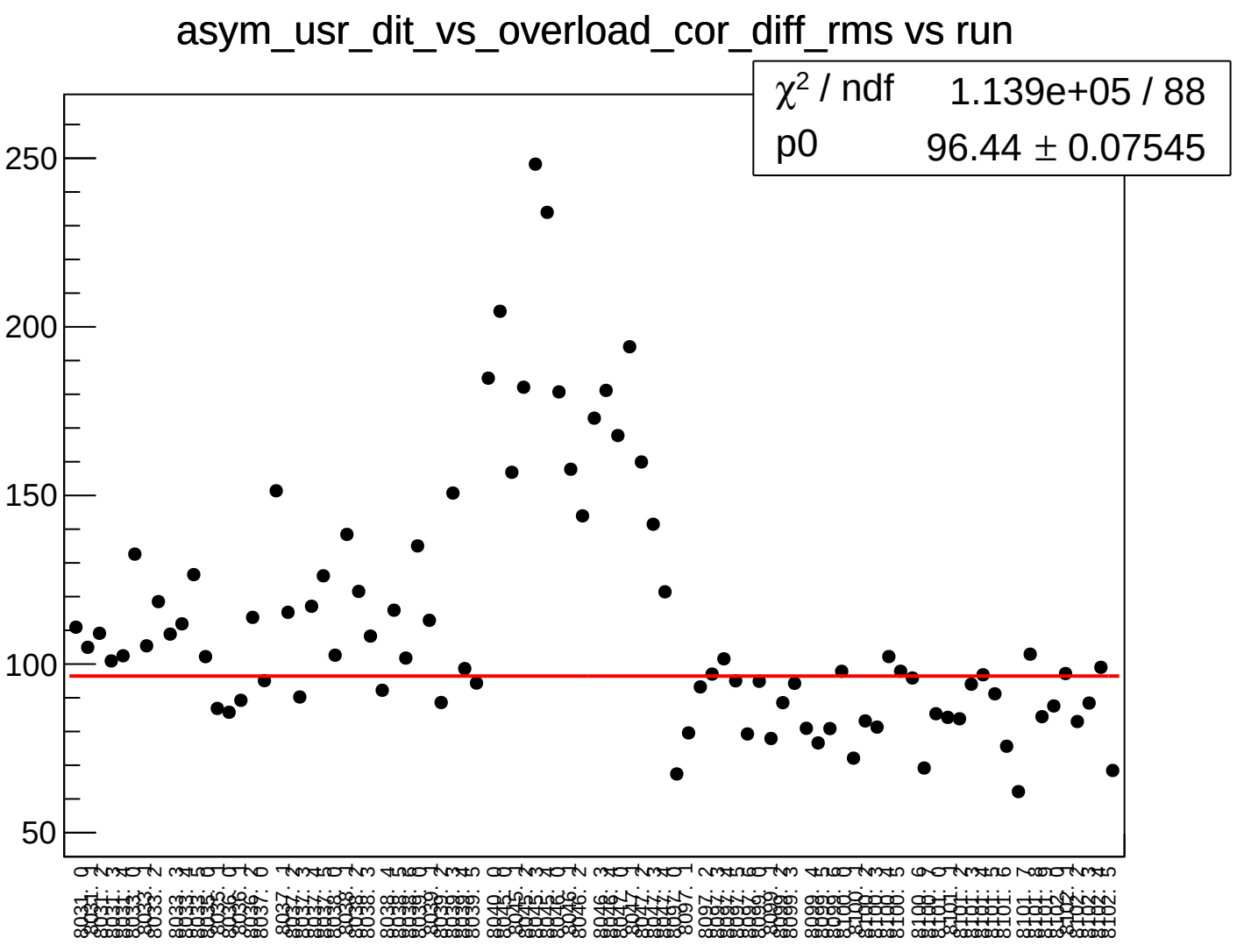

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.7 / 88
p0 −0.06737 ± 0.08486
pull
Entries 89
Mean 170.2
Std Dev 0

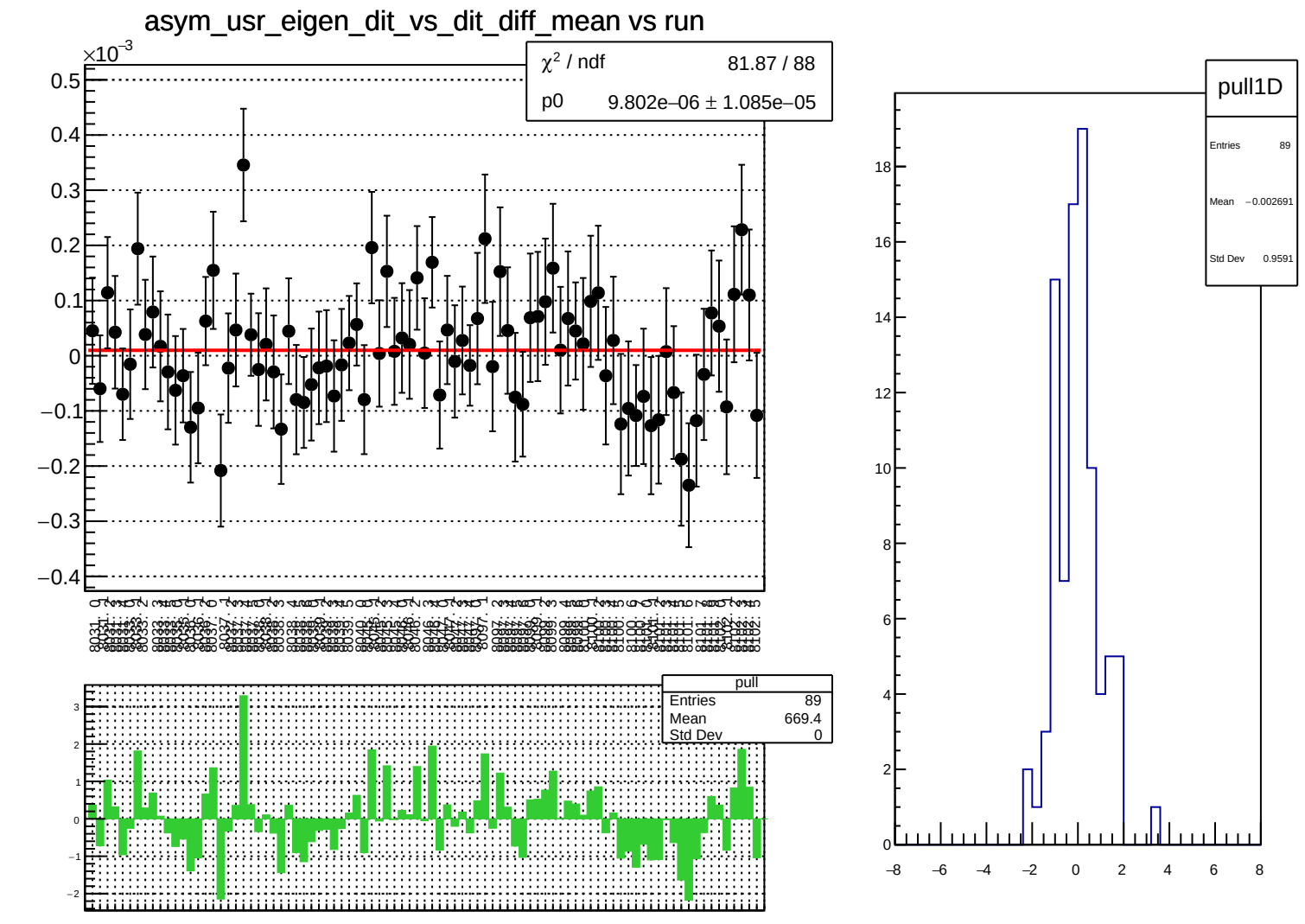

pull1D
Entries 89
Mean −0.02276
Std Dev 0.9924

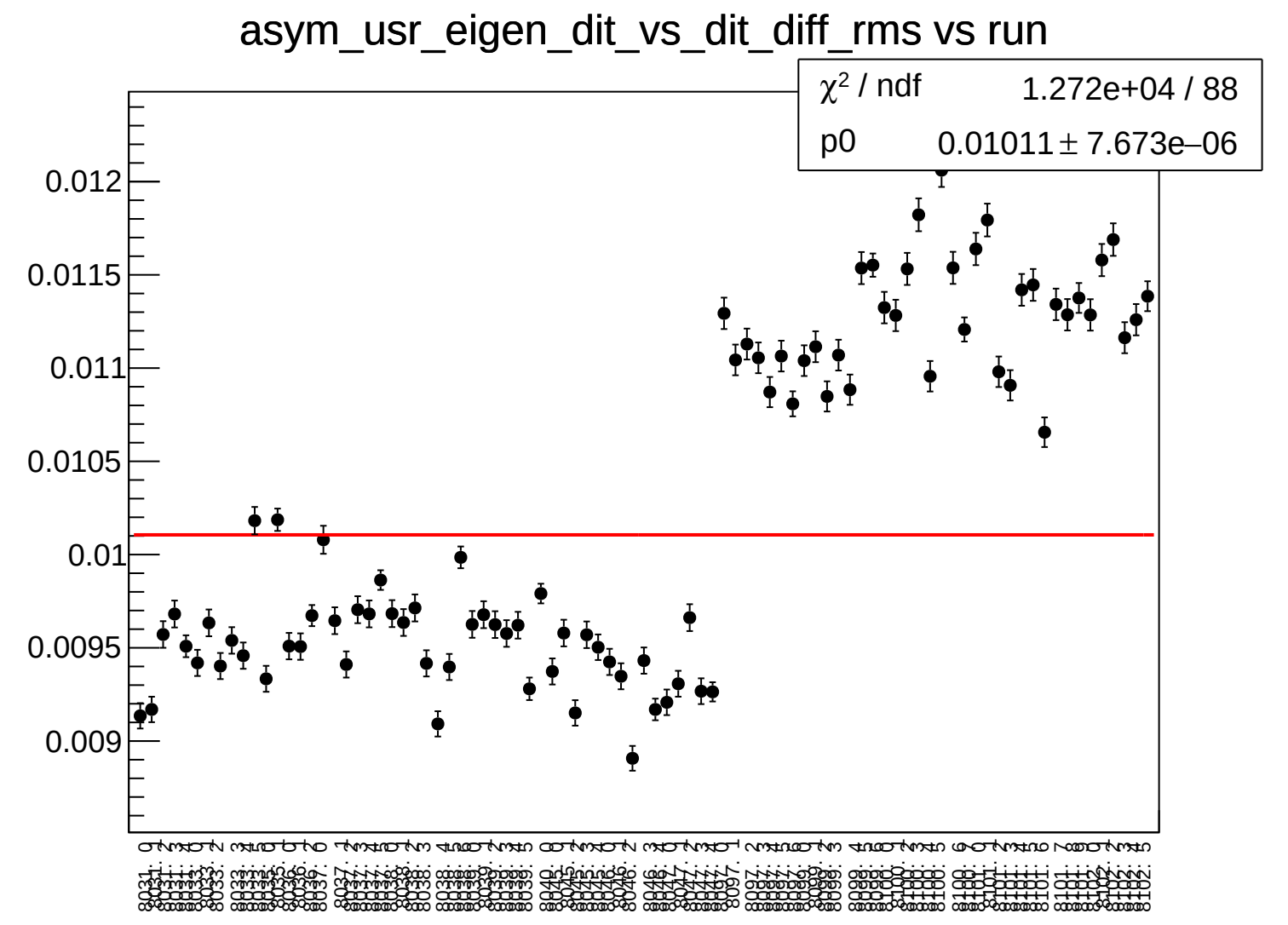

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.726e+05 / 88
p0 75.3 ± 0.06
250
200
150
100
50

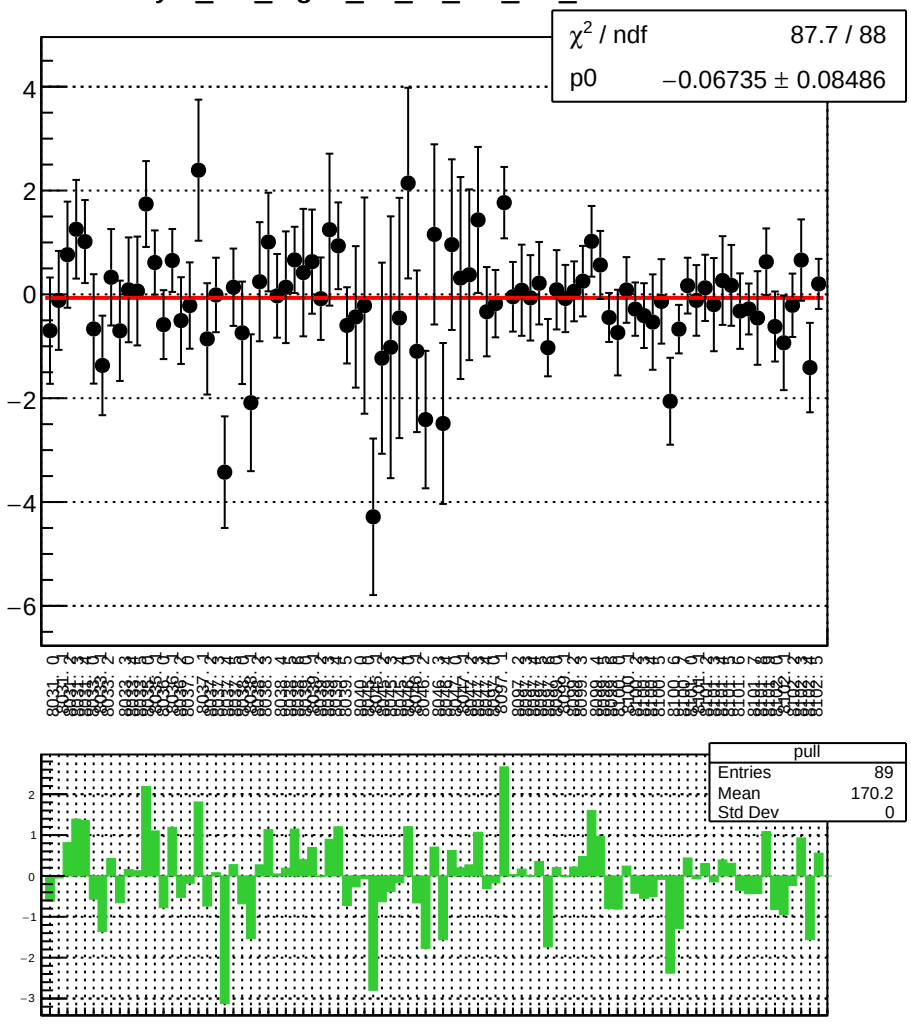

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 83.36 / 88
p0 −0.02983 ± 0.1067
pull
Entries 89
Mean 64.45
Std Dev 69.36

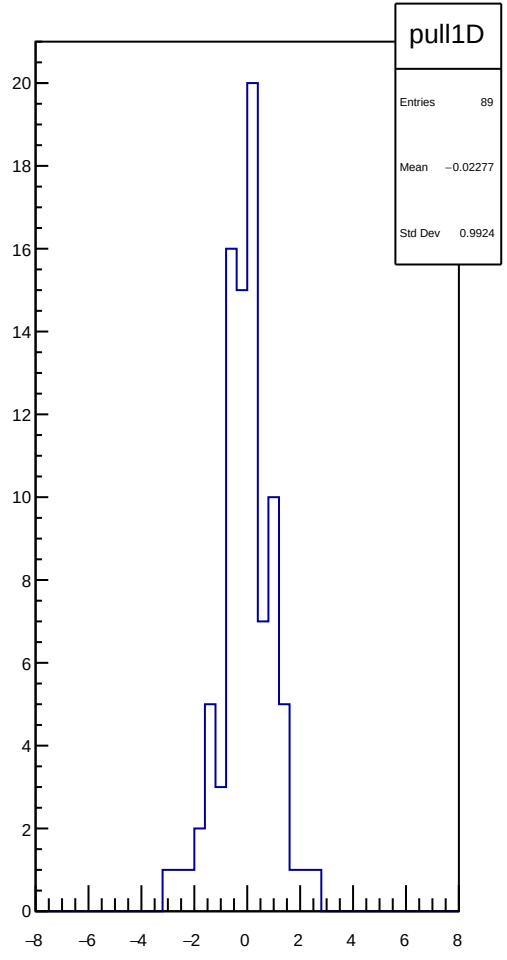

pull1D
Entries 89
Mean 0.002291
Std Dev 0.9678

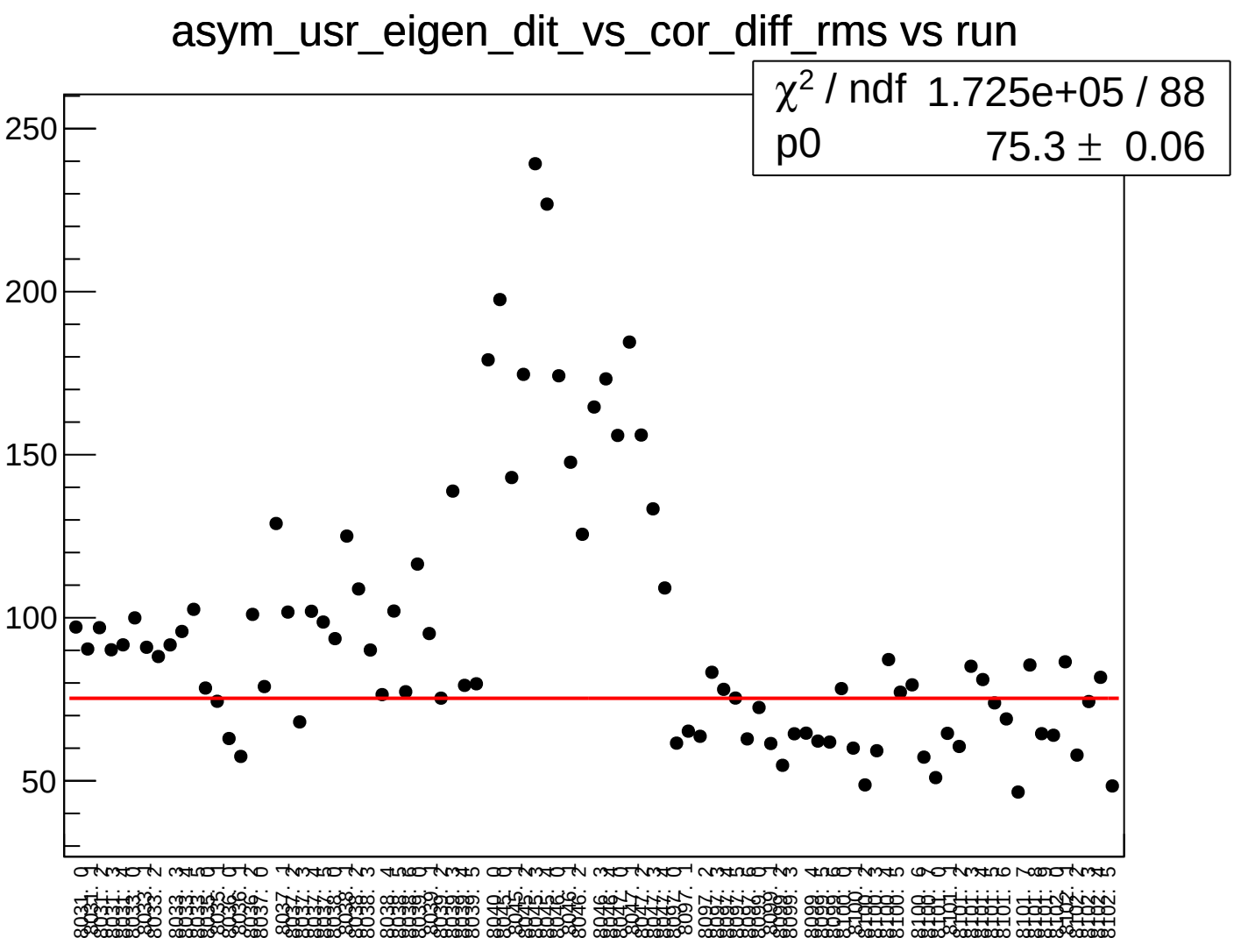

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.139e+05 / 88
p0 96.44 ± 0.07545
250
200
150
100
50

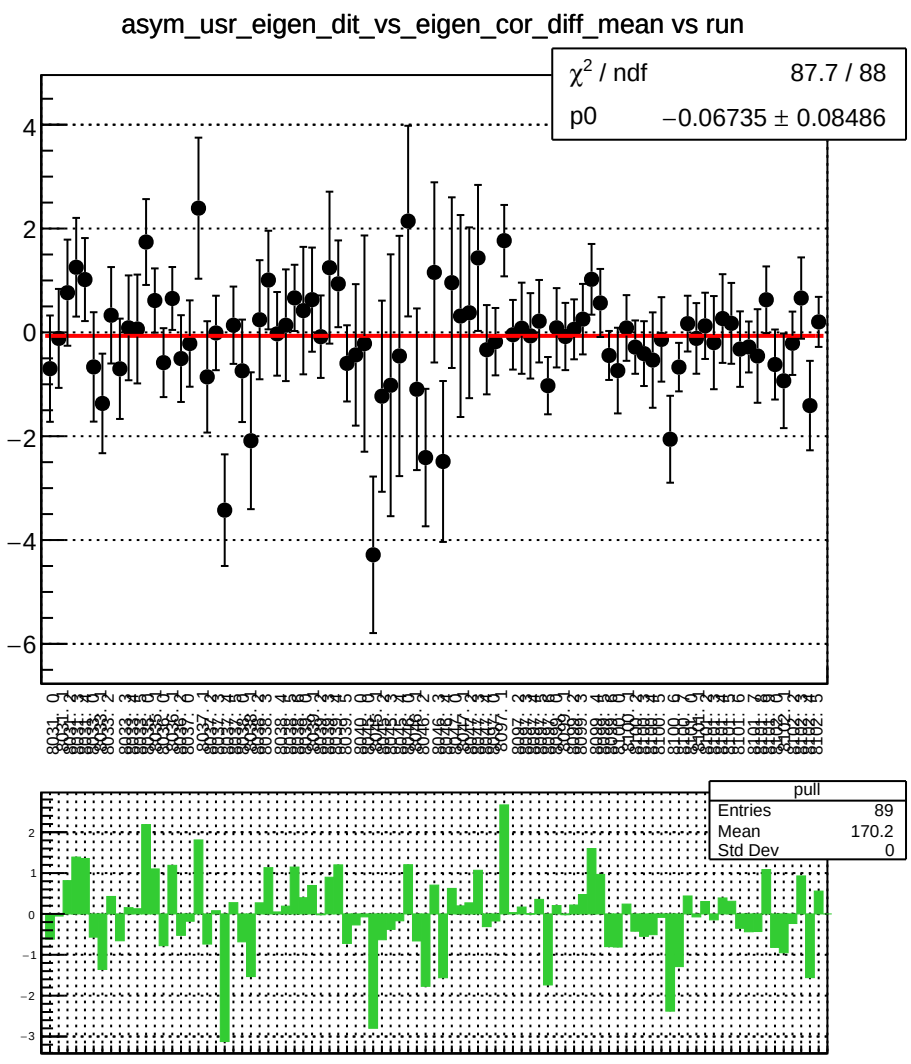

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.87 / 88
p0 9.802e−06 ± 1.085e−05
pull
Entries 89
Mean 669.4
Std Dev 0
pull1D
Entries 89
Mean −0.002691
Std Dev 0.9591

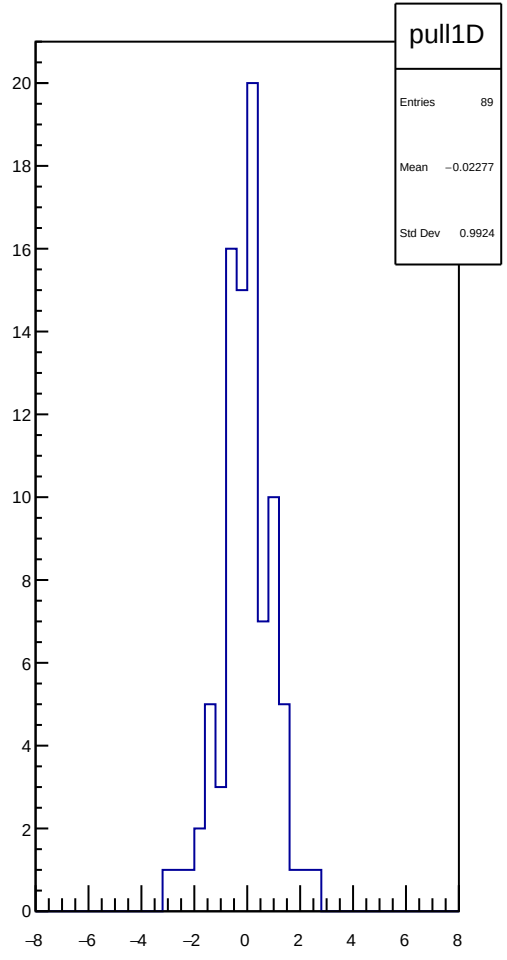

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.272e+04 / 88
p0 0.01011 ± 7.673e–06
0.012
0.0115
0.011
0.0105
0.01
0.0095
0.009

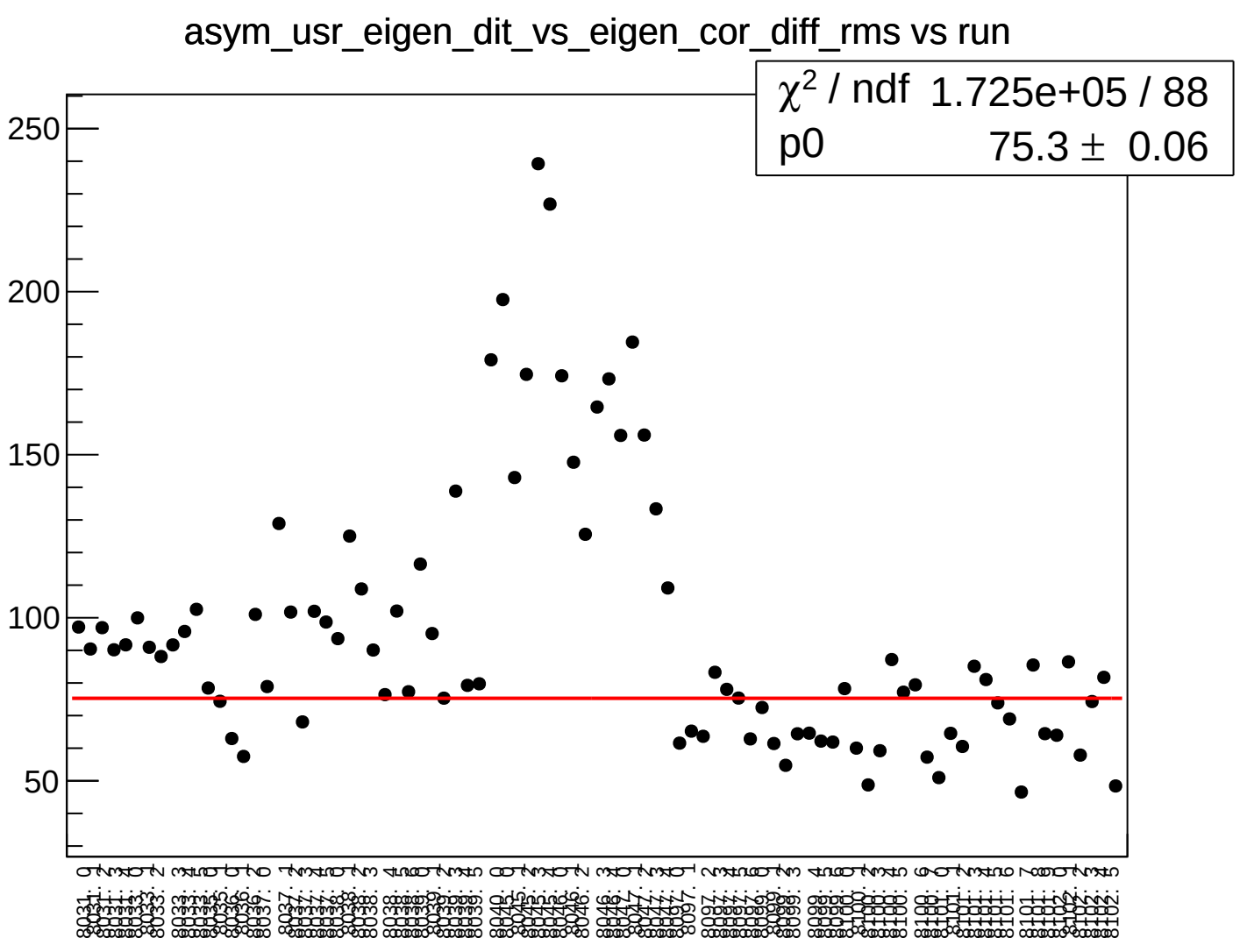

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.7 / 88
p0 −0.06735 ± 0.08486
pull
Entries 89
Mean 170.2
Std Dev 0

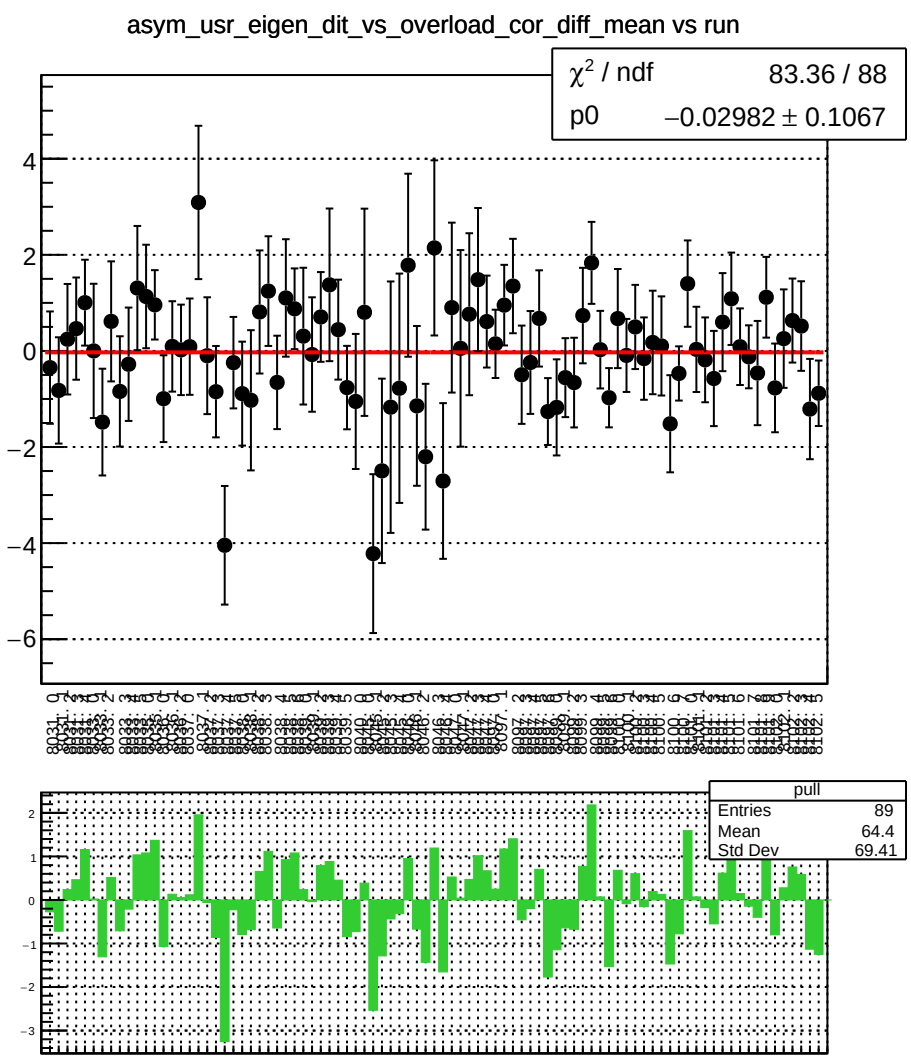

pull1D
Entries 89
Mean −0.02277
Std Dev 0.9924

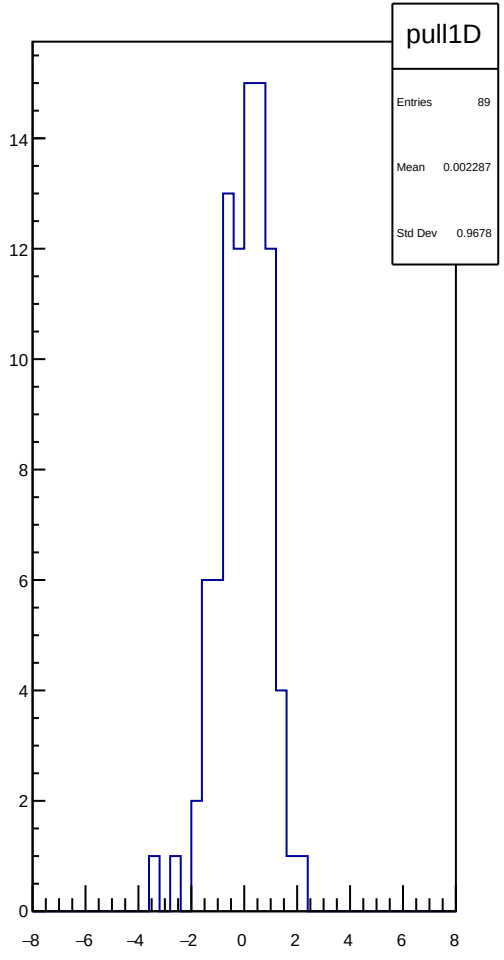

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.725e+05 / 88
p0 75.3 ± 0.06
250
200
150
100
50

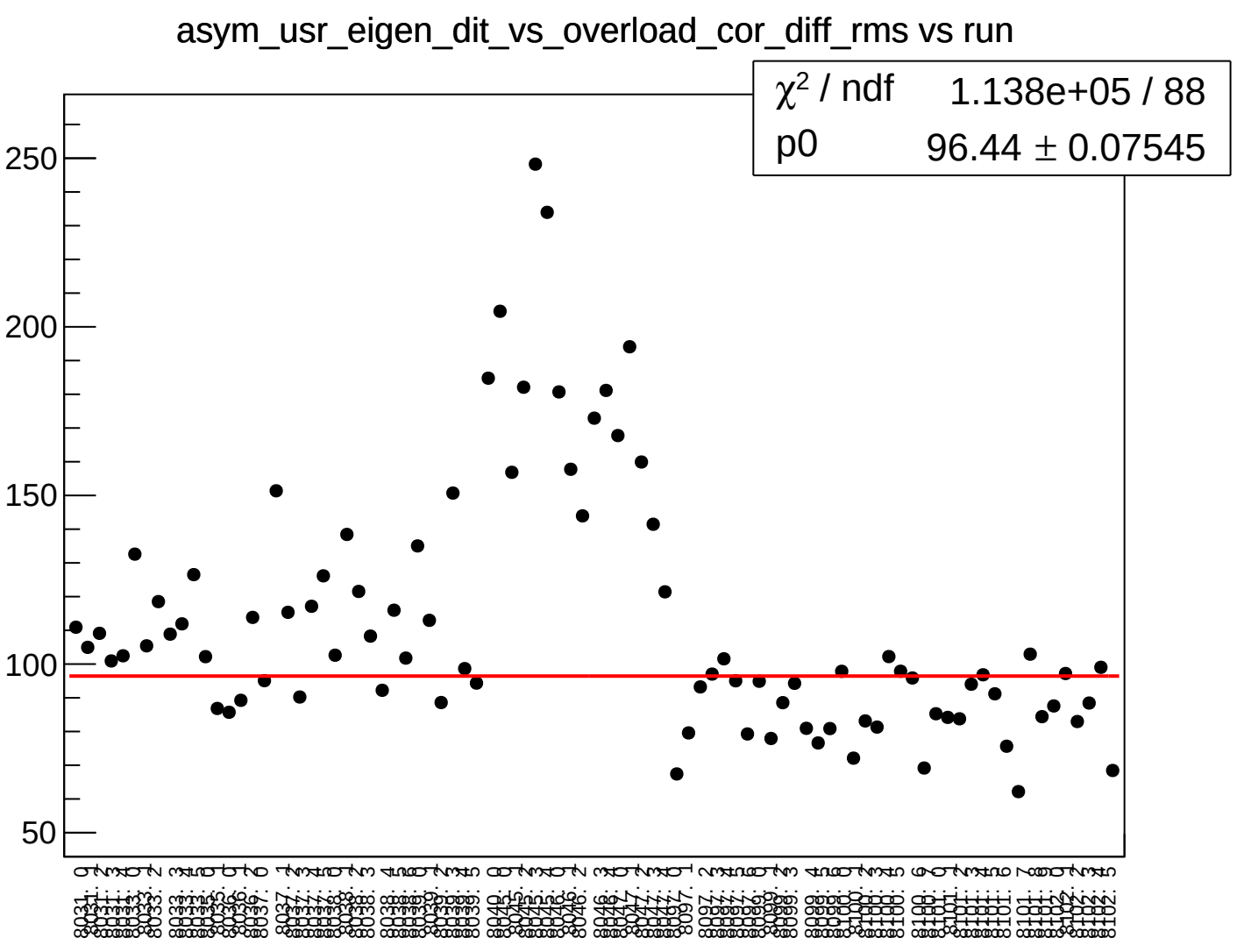

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.7 / 88
p0 −0.06735 ± 0.08486
pull
Entries 89
Mean 170.2
Std Dev 0

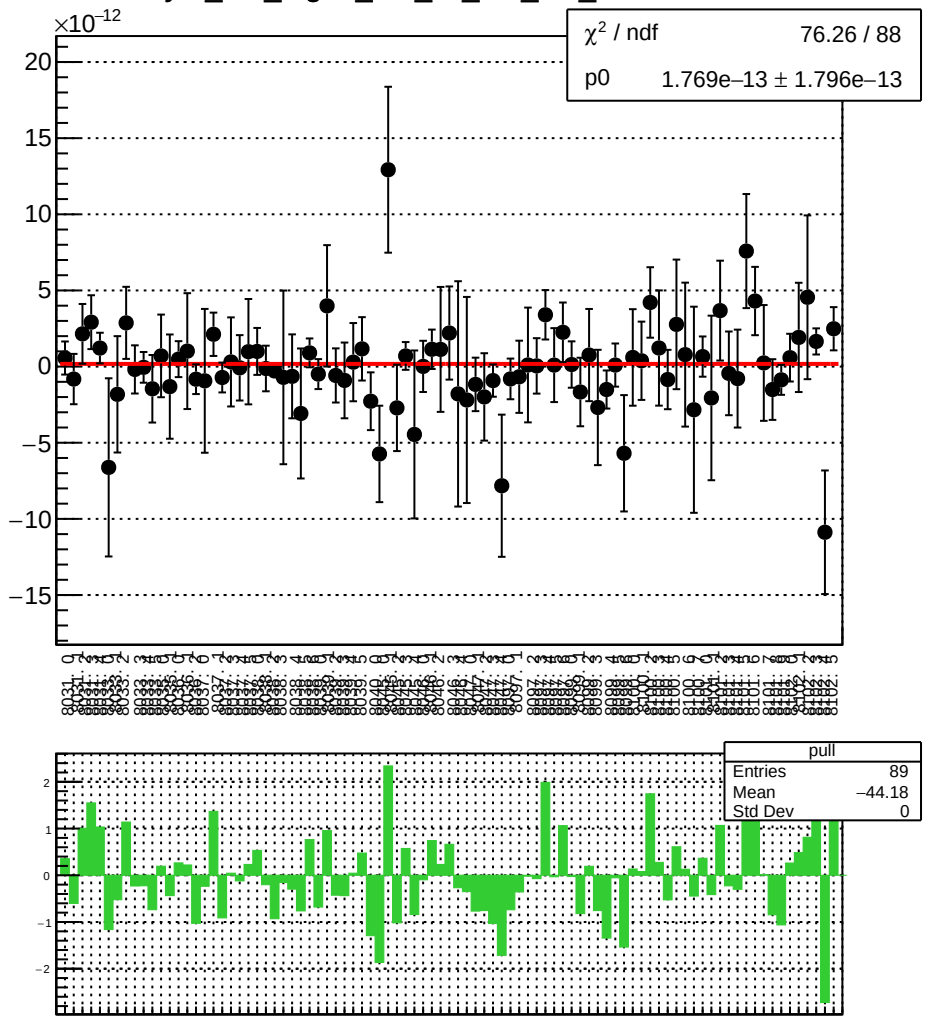

pull1D
Entries 89
Mean −0.02277
Std Dev 0.9924

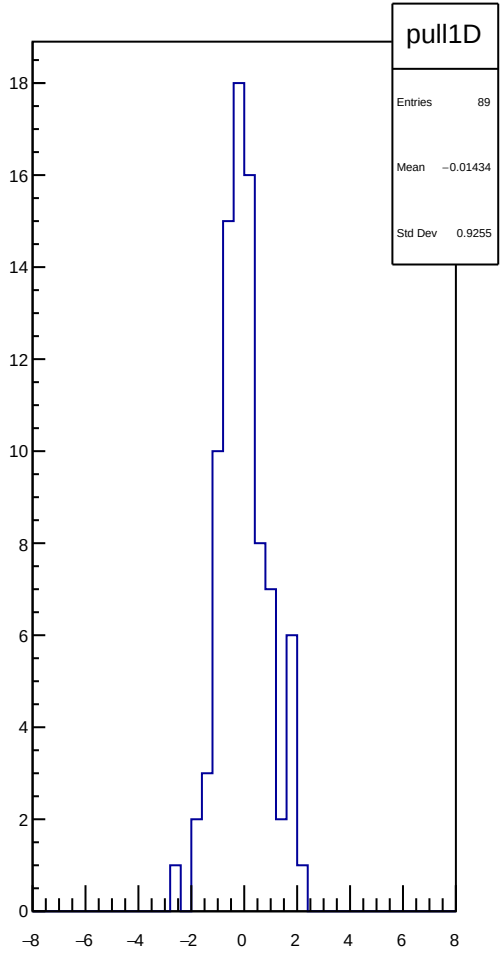

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.725e+05 / 88
p0 75.3 ± 0.06
250
200
150
100
50

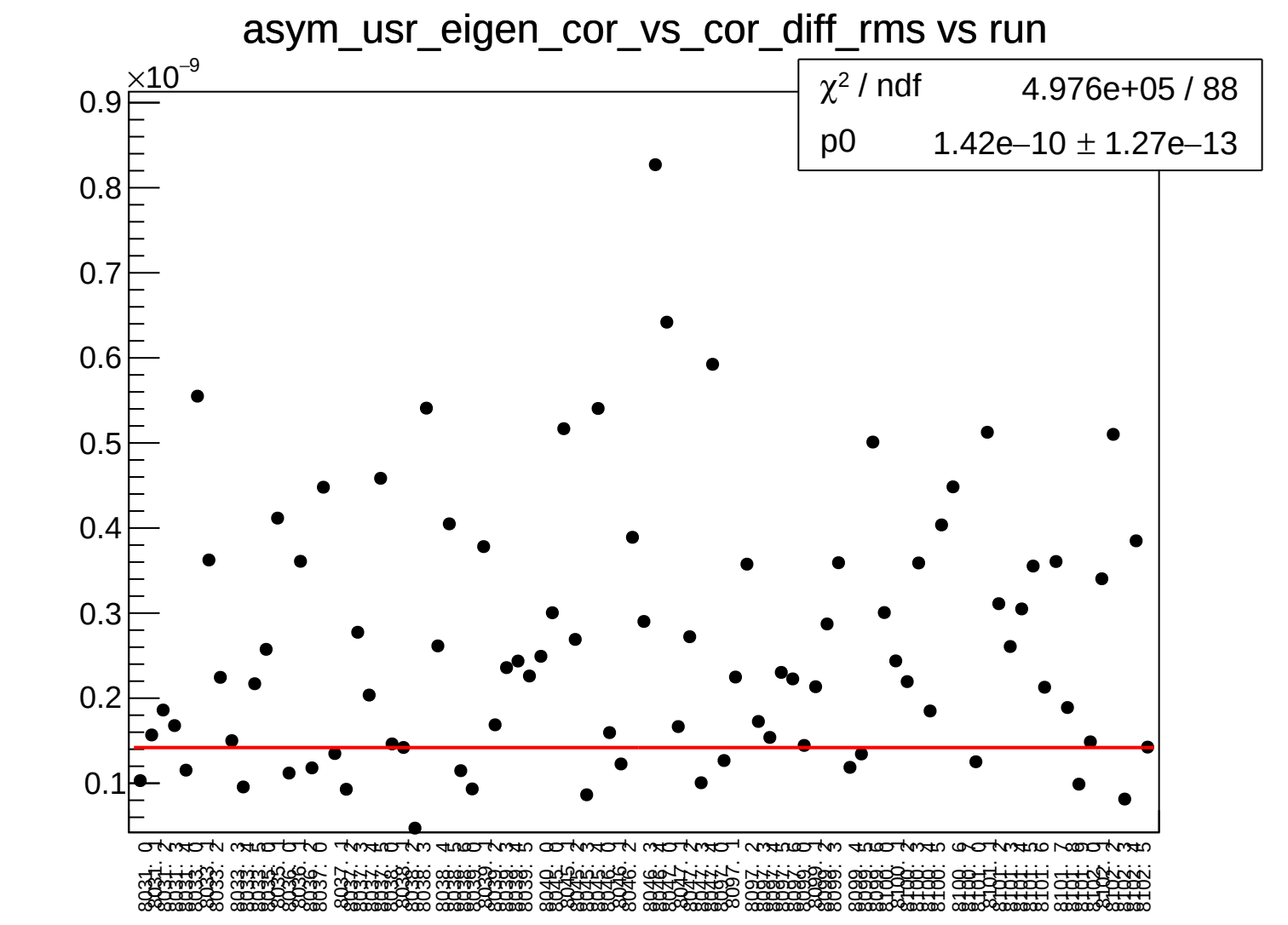

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 83.36 / 88
p0 −0.02982 ± 0.1067
pull
Entries 89
Mean 64.4
Std Dev 69.41

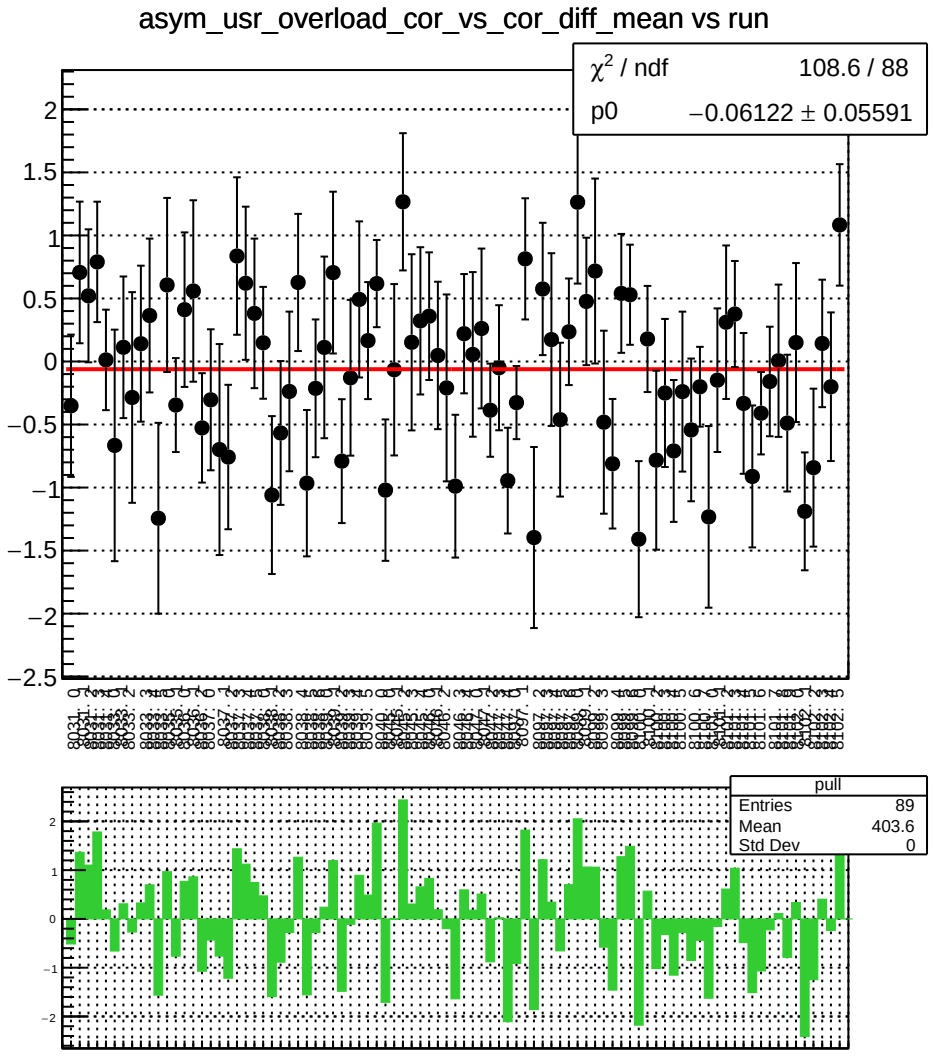

pull1D
Entries 89
Mean 0.002287
Std Dev 0.9678

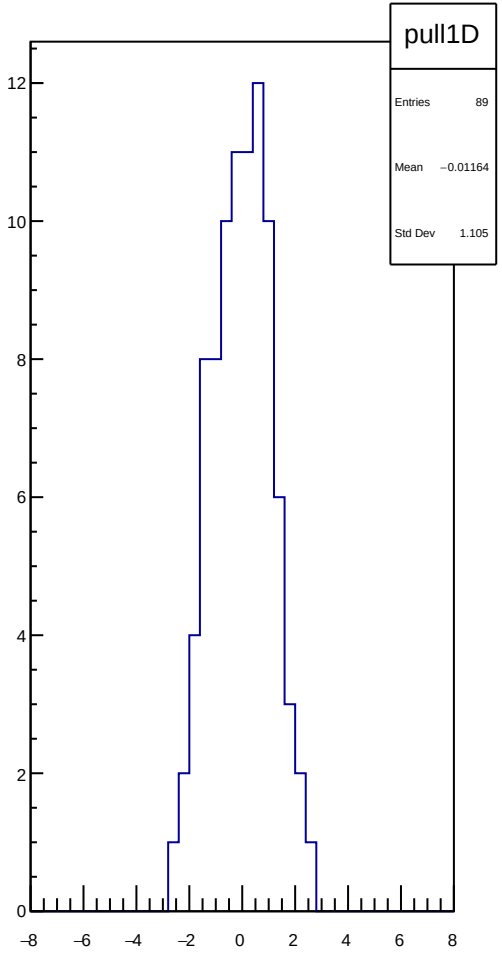

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.138e+05 / 88
p0 96.44 ± 0.07545
250
200
150
100
50

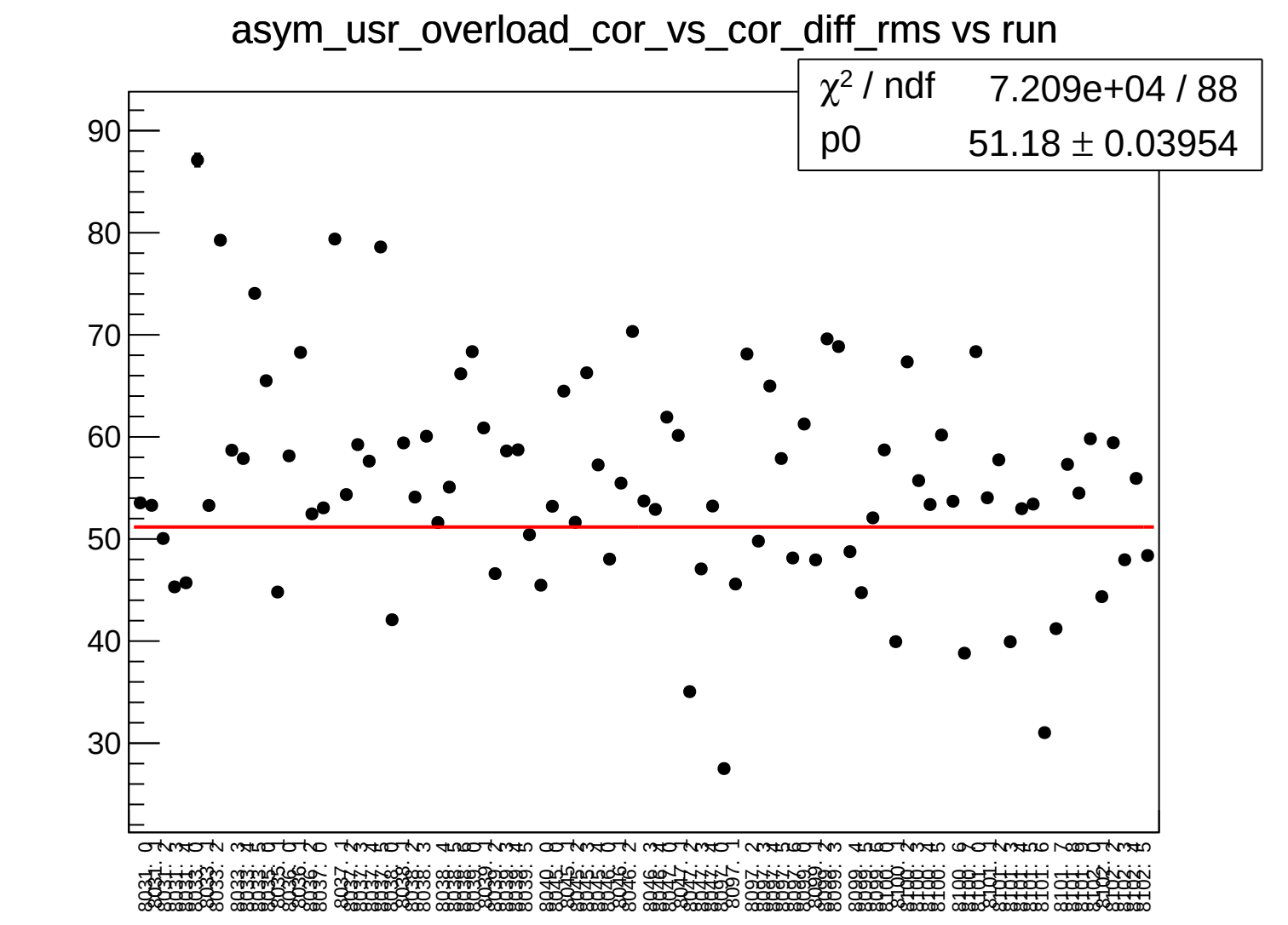

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.26 / 88
p0 1.769e−13 ± 1.796e−13
pull
Entries 89
Mean −44.18
Std Dev 0

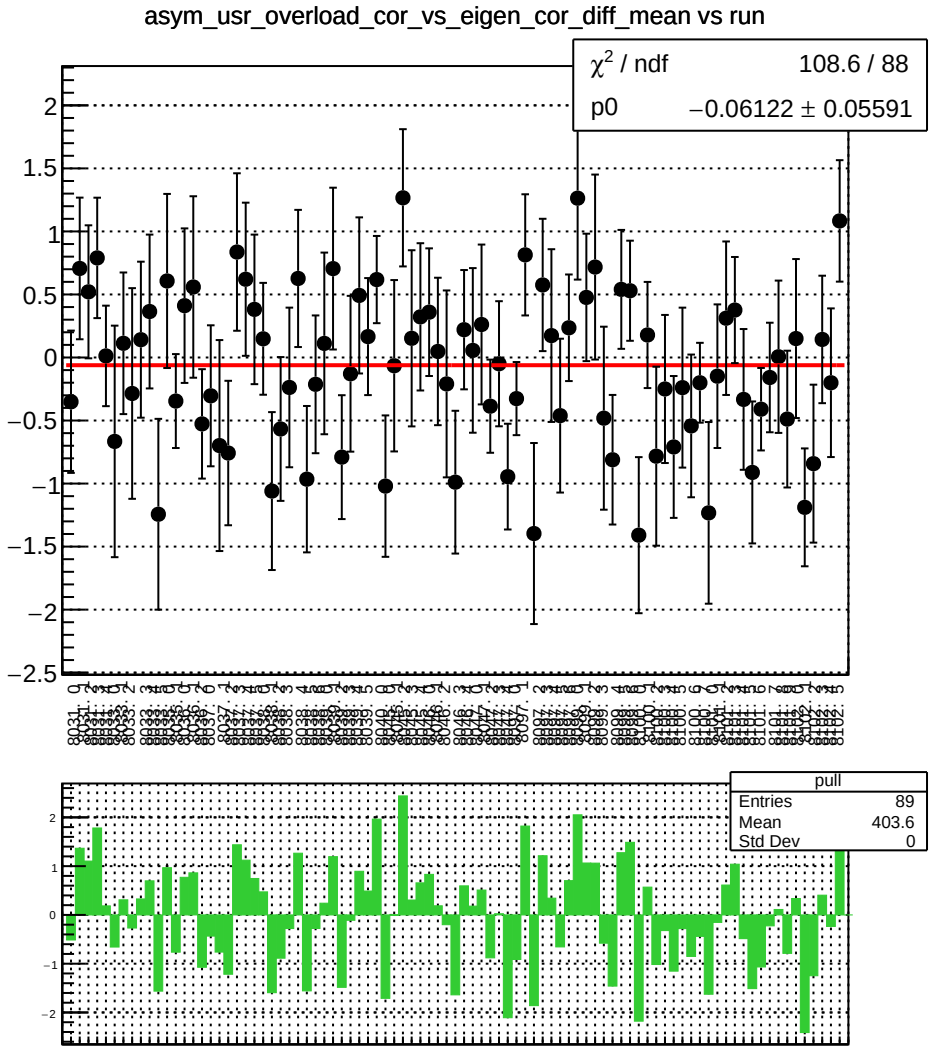

pull1D
Entries 89
Mean −0.01434
Std Dev 0.9255

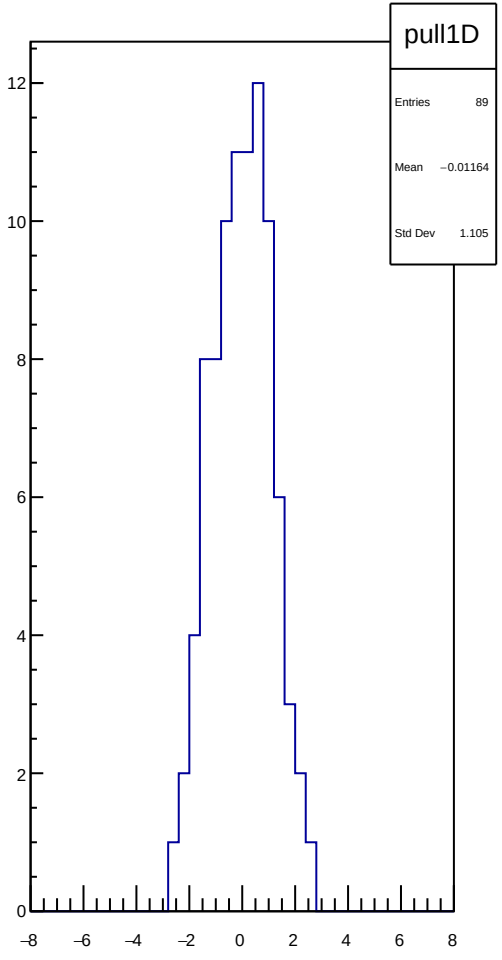

asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.976e+05 / 88
p0 1.42e−10 ± 1.27e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

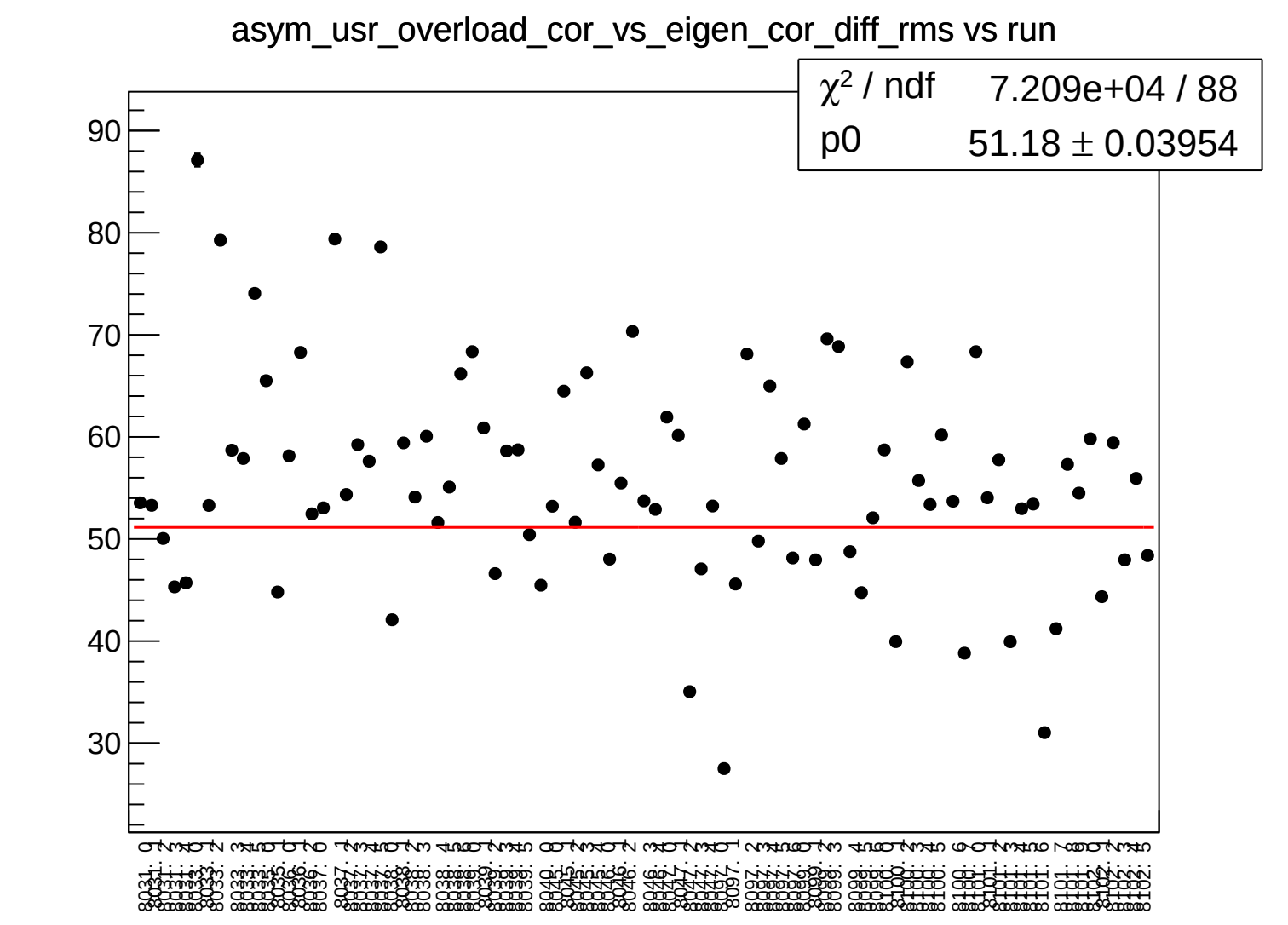

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 108.6 / 88
p0 −0.06122 ± 0.05591
pull
Entries 89
Mean 403.6
Std Dev 0

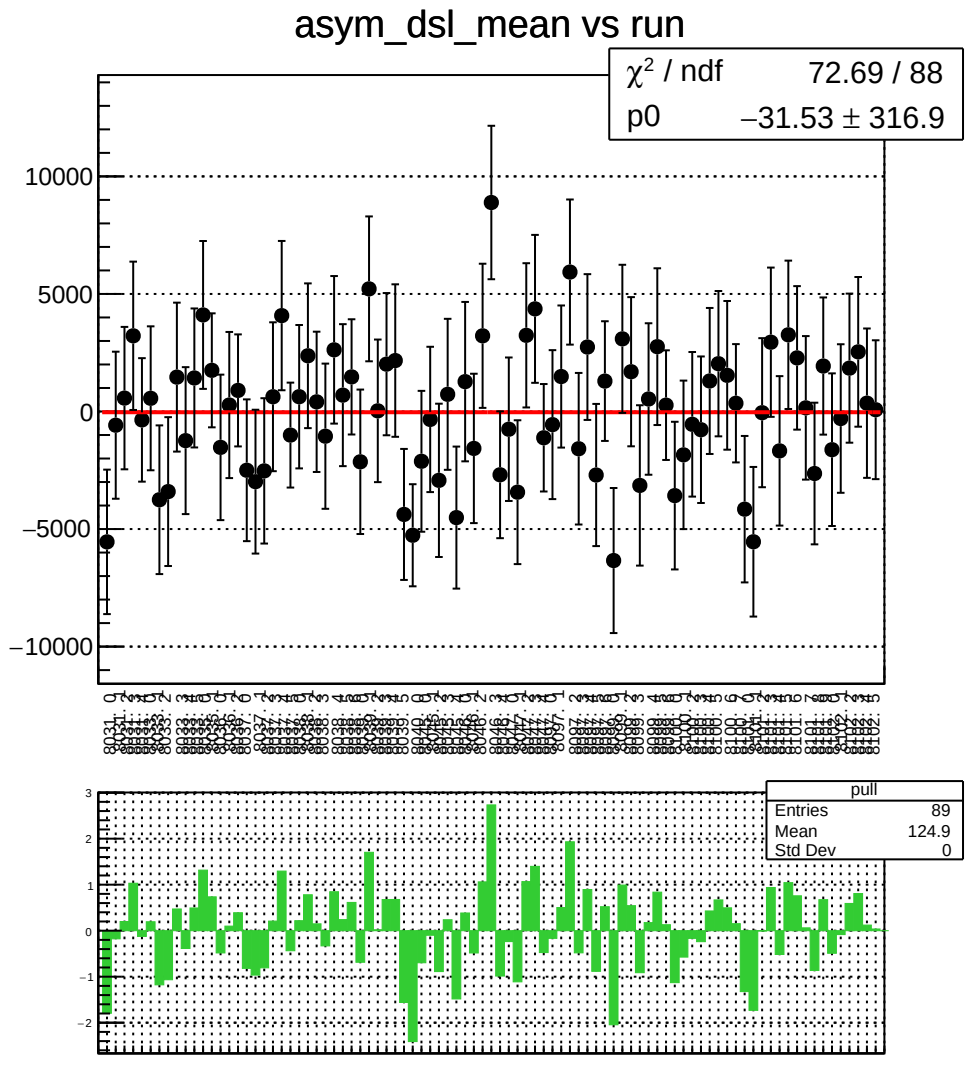

pull1D
Entries 89
Mean −0.01164
Std Dev 1.105

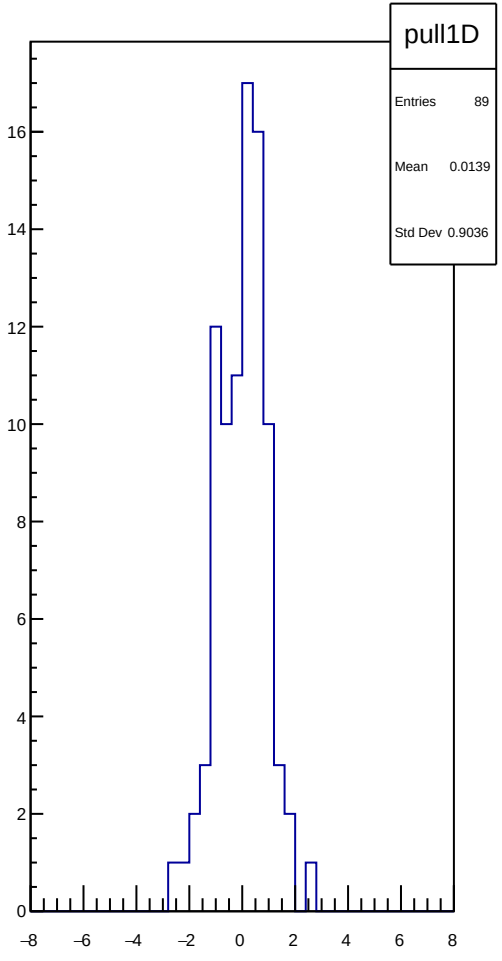

asym_usr_overload_cor_vs_cor_diff_rms vs run
$\chi^2$ / ndf 7.209e+04 / 88
p0 51.18 ± 0.03954
90
80
70
60
50
40
30

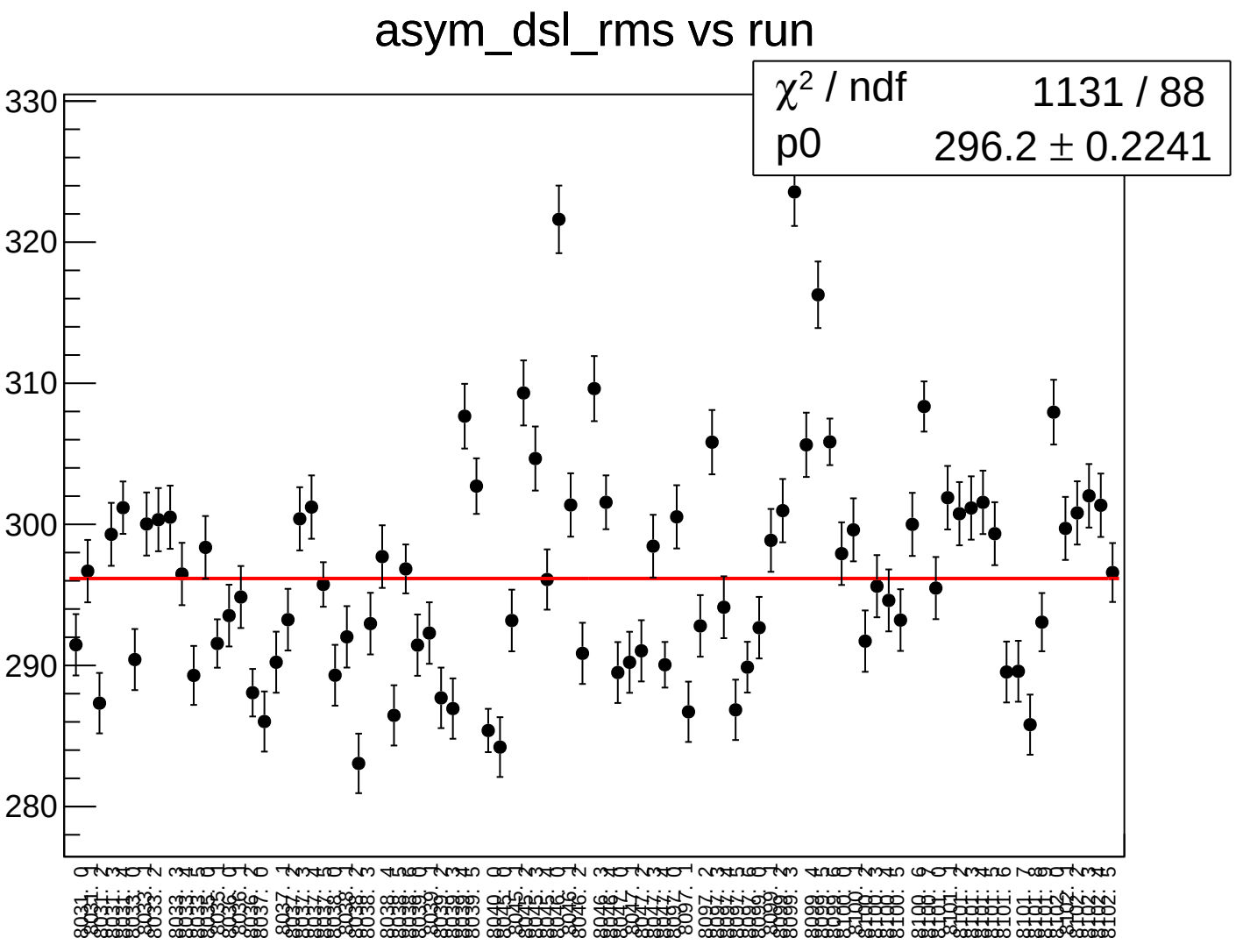

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.6 / 88
p0 −0.06122 ± 0.05591
pull
Entries 89
Mean 403.6
Std Dev 0

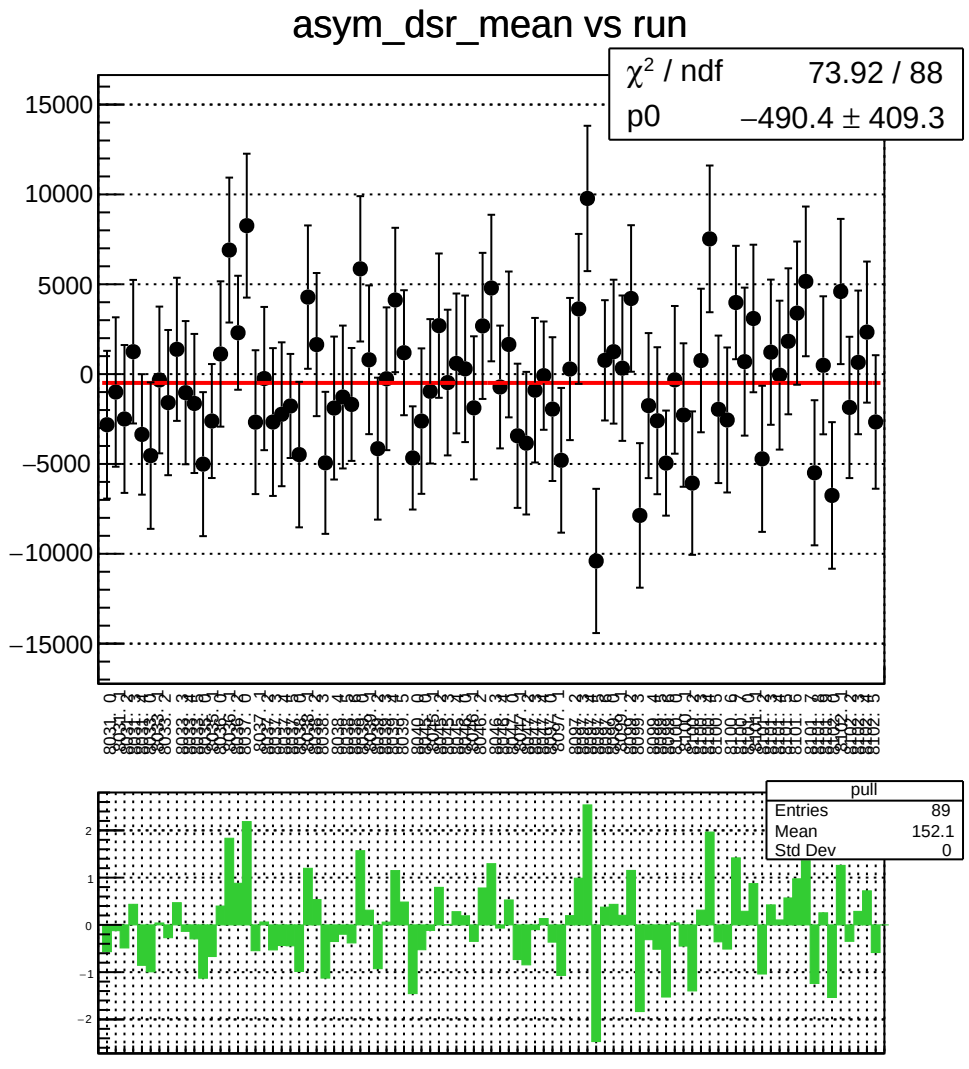

pull1D
Entries 89
Mean −0.01164
Std Dev 1.105

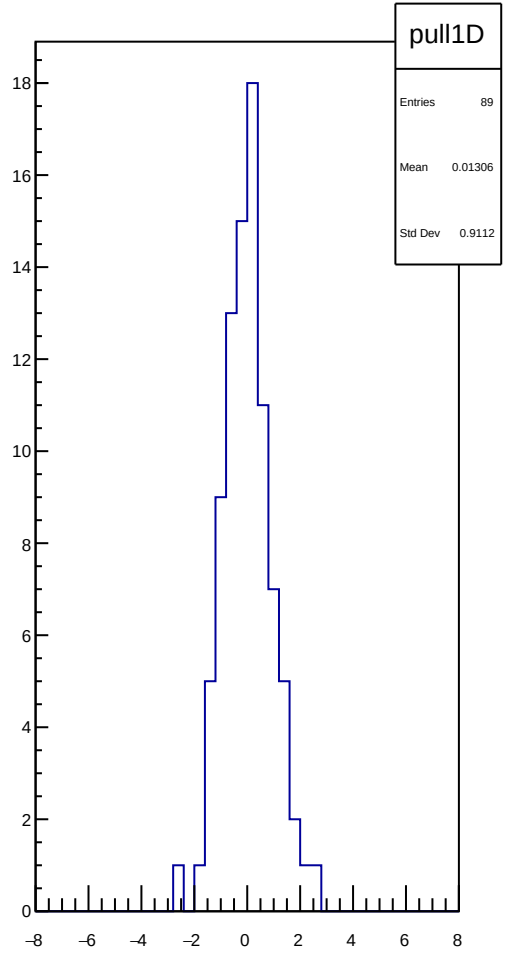

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.209e+04 / 88
p0 51.18 ± 0.03954
90
80
70
60
50
40
30

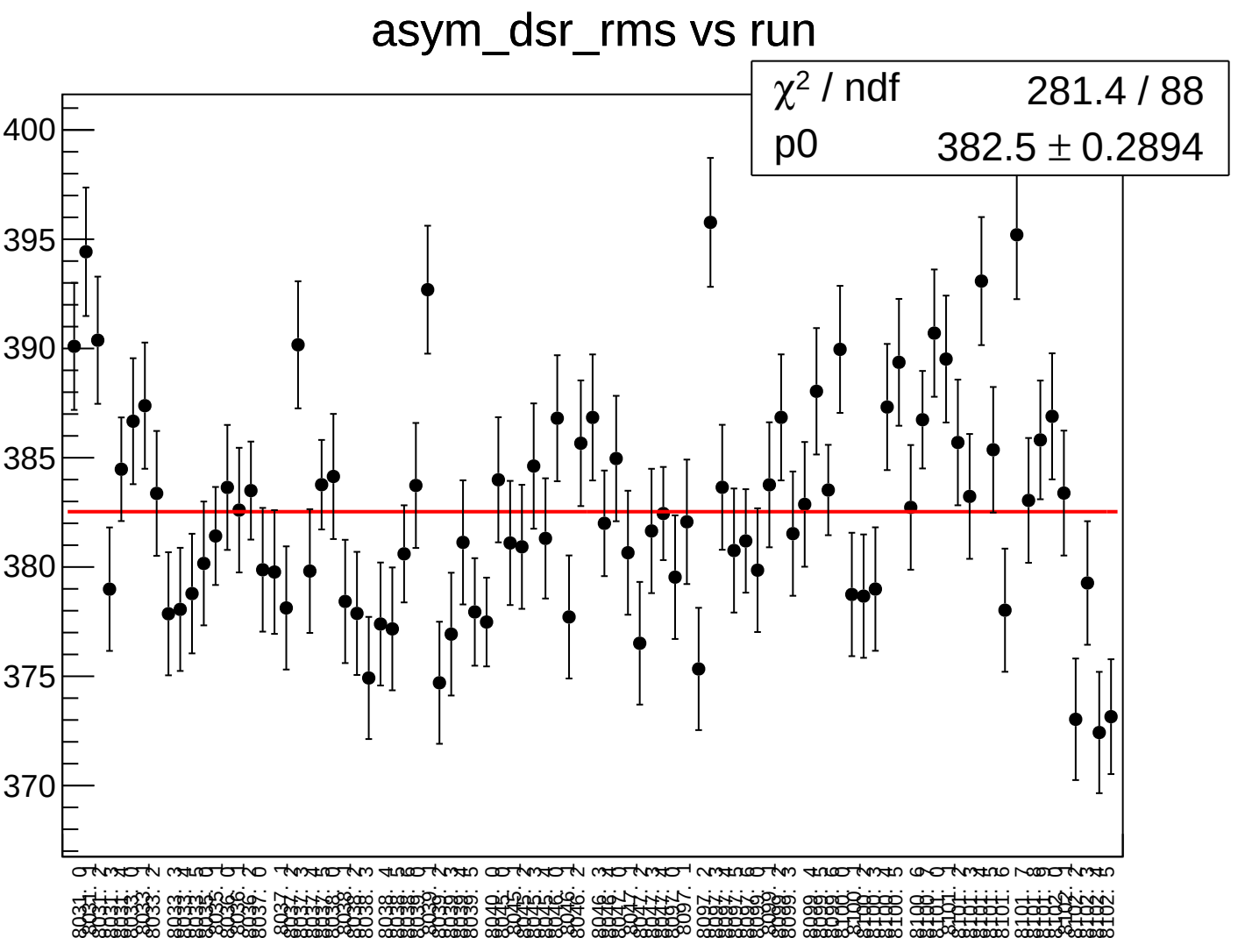

asym_dsl_mean vs run
χ² / ndf 72.69 / 88
p0 −31.53 ± 316.9
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 124.9
Std Dev 0
3
2
1
0
−1
−2

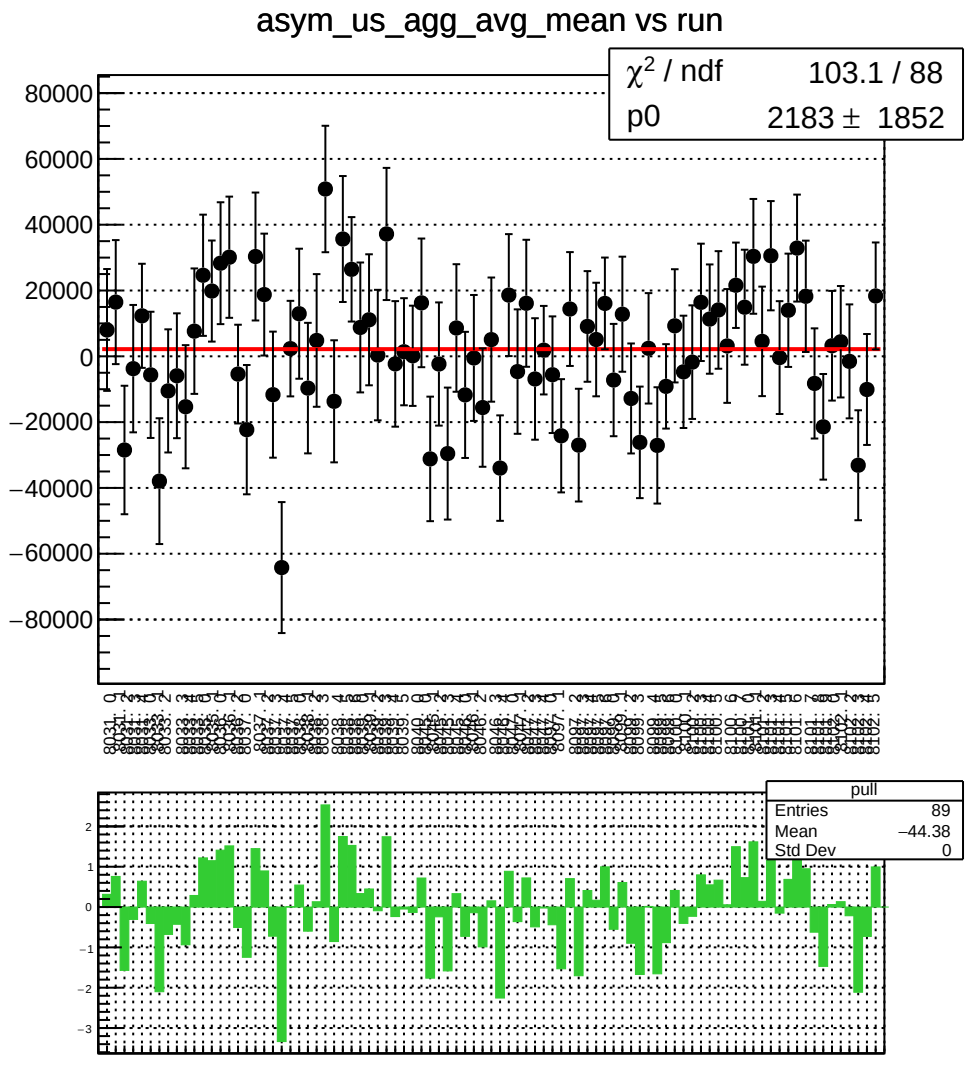

pull1D
Entries 89
Mean 0.0139
Std Dev 0.9036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

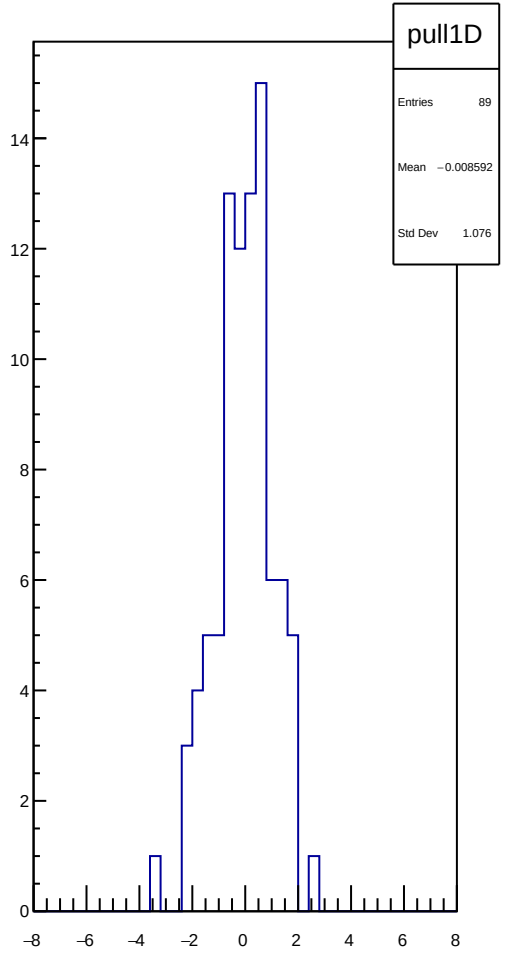

asym_dsl_rms vs run
χ² / ndf 1131 / 88
p0 296.2 ± 0.2241
330
320
310
300
290
280

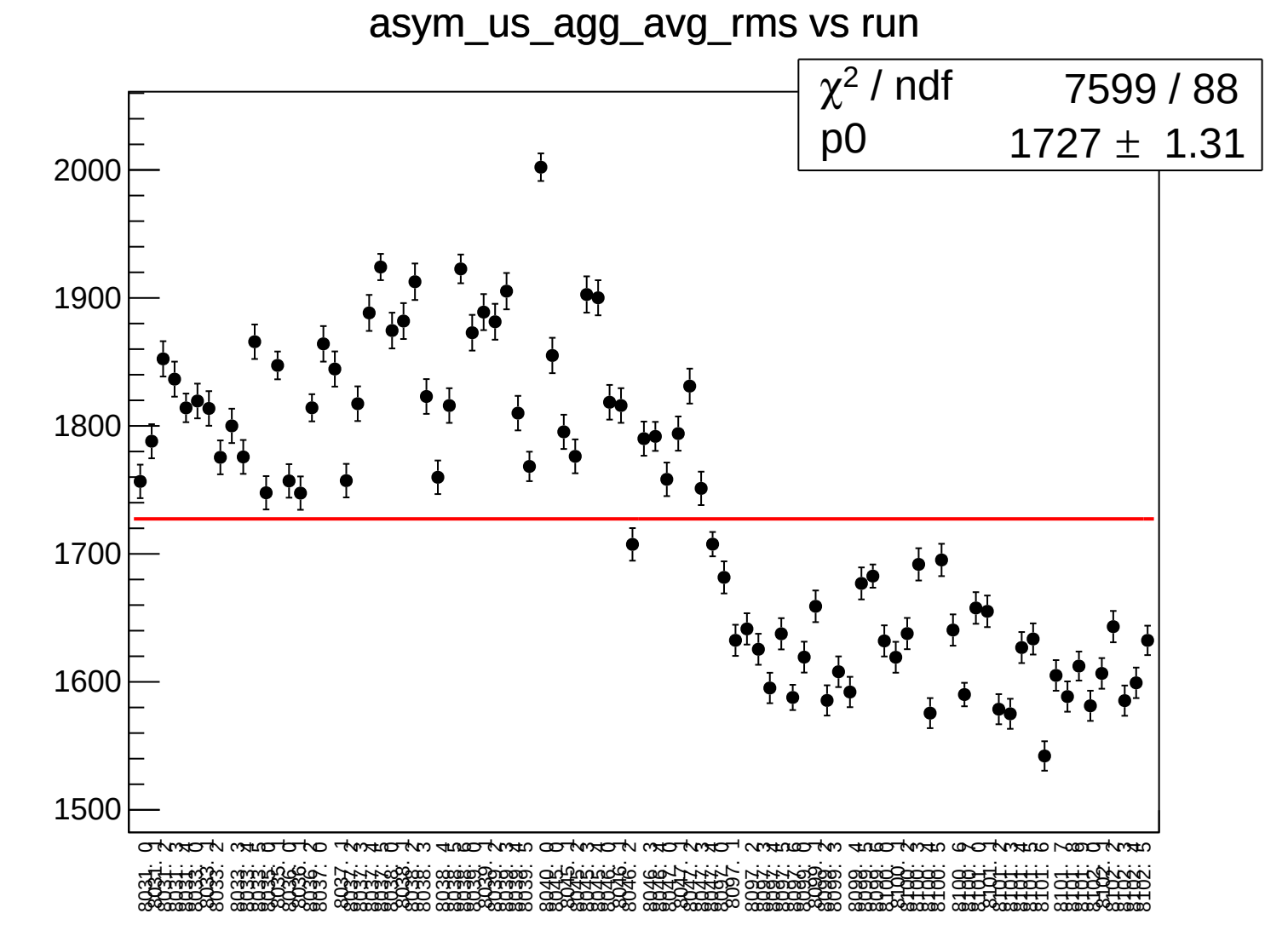

asym_dsr_mean vs run
χ² / ndf 73.92 / 88
p0 −490.4 ± 409.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 152.1
Std Dev 0
2
1
0
−1
−2

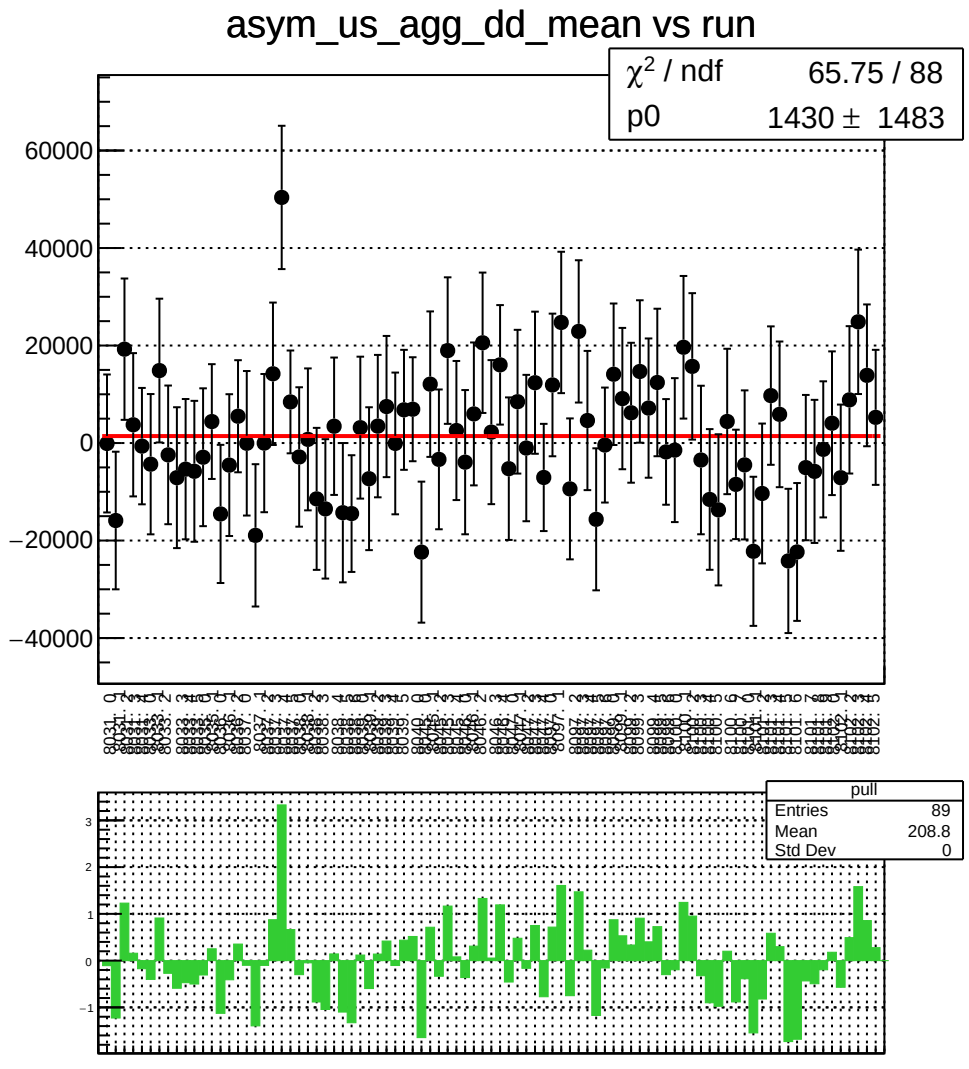

pull1D
Entries 89
Mean 0.01306
Std Dev 0.9112
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

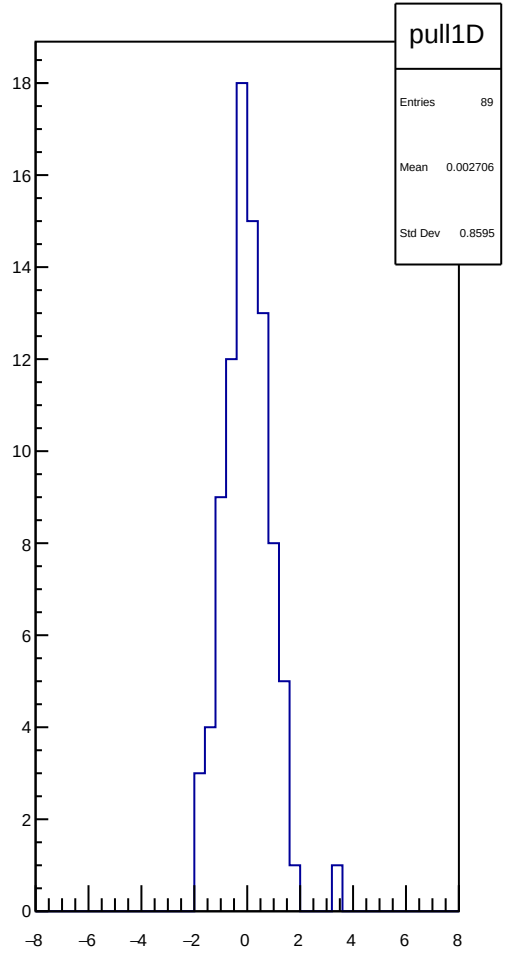

asym_dsr_rms vs run
χ² / ndf 281.4 / 88
p0 382.5 ± 0.2894
400
395
390
385
380
375
370

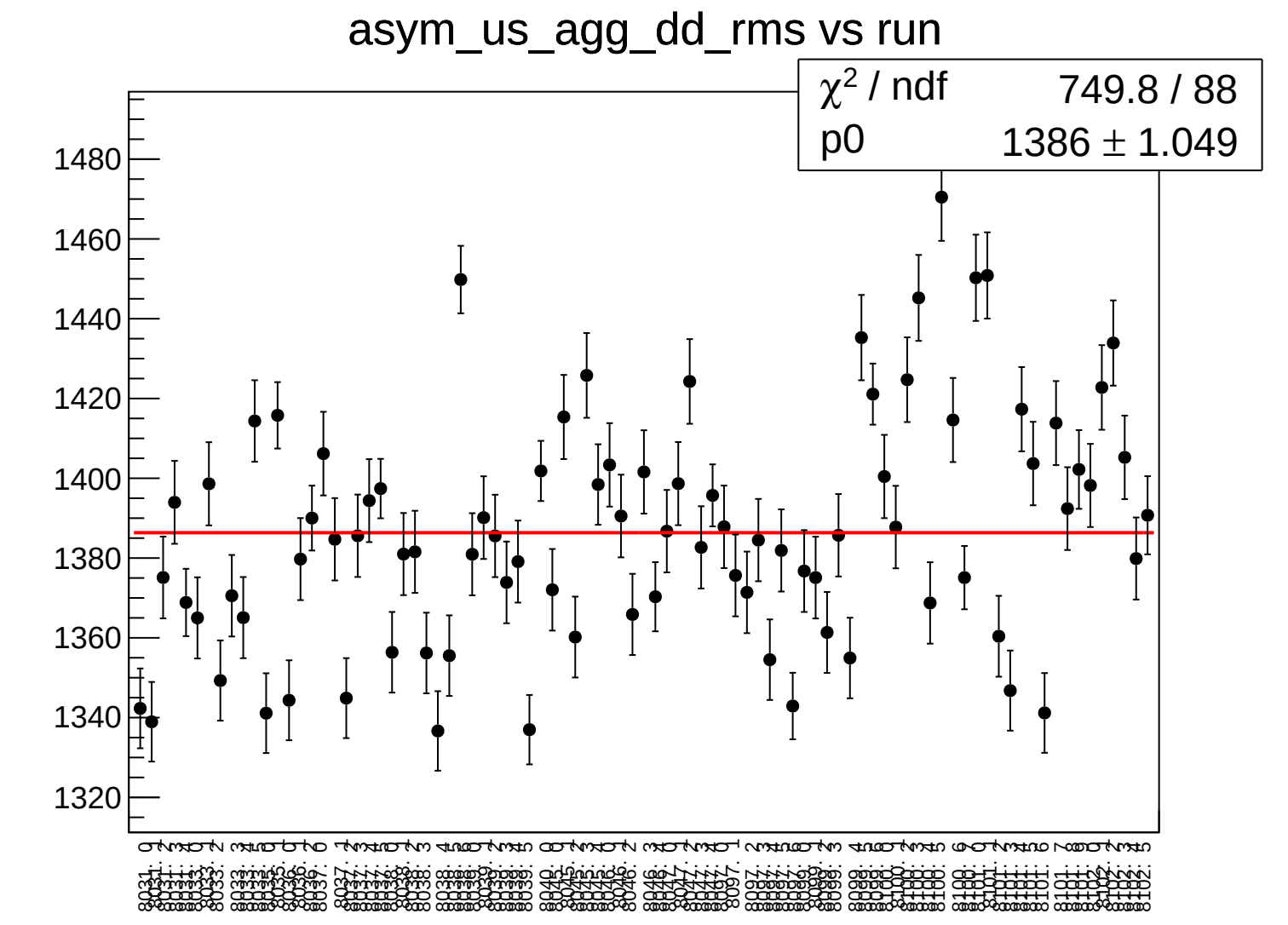

asym_us_agg_avg_mean vs run
χ² / ndf 103.1 / 88
p0 2183 ± 1852
pull
Entries 89
Mean −44.38
Std Dev 0

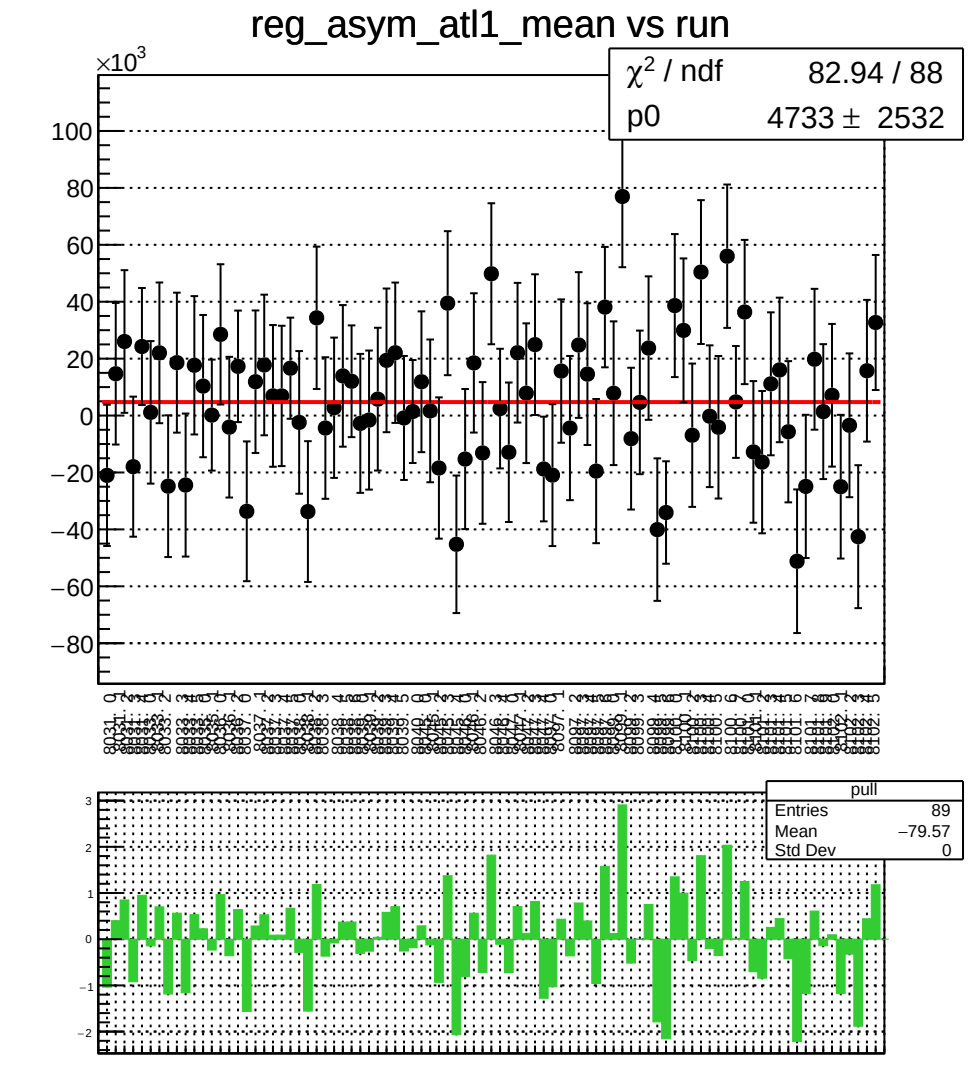

pull1D
Entries 89
Mean −0.008592
Std Dev 1.076

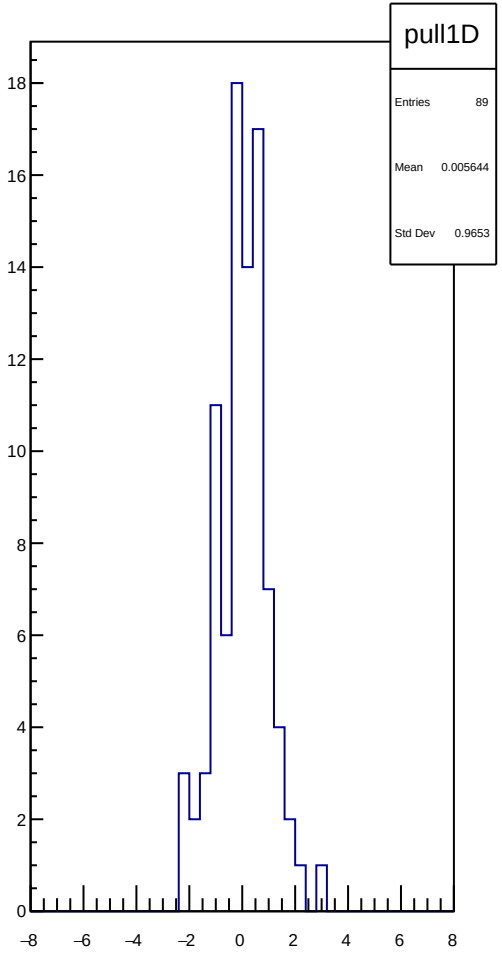

asym_us_agg_avg_rms vs run
χ² / ndf 7599 / 88
p0 1727 ± 1.31
2000
1900
1800
1700
1600
1500

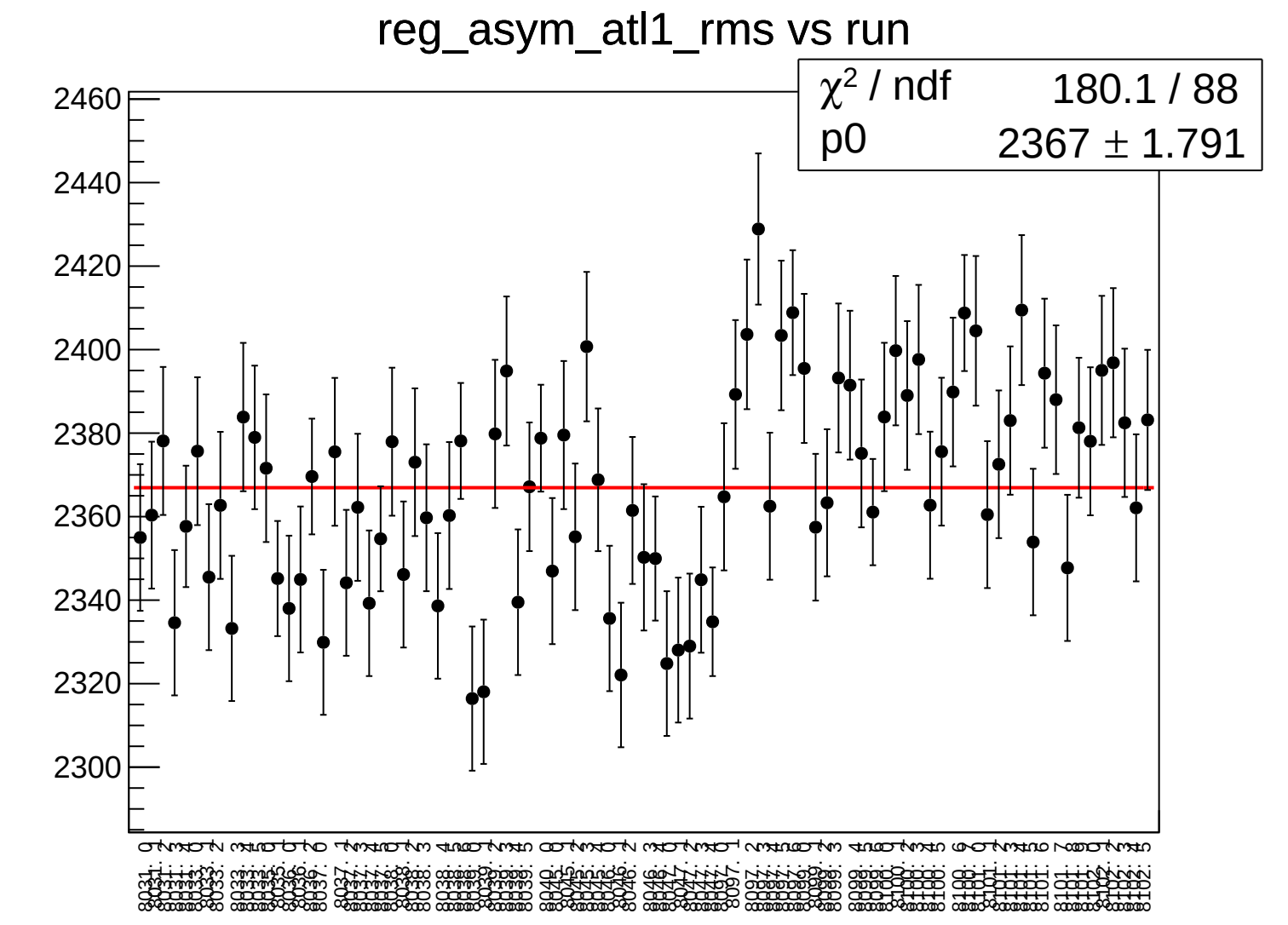

asym_us_agg_dd_mean vs run
χ² / ndf 65.75 / 88
p0 1430 ± 1483
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 208.8
Std Dev 0
3
2
1
0
−1

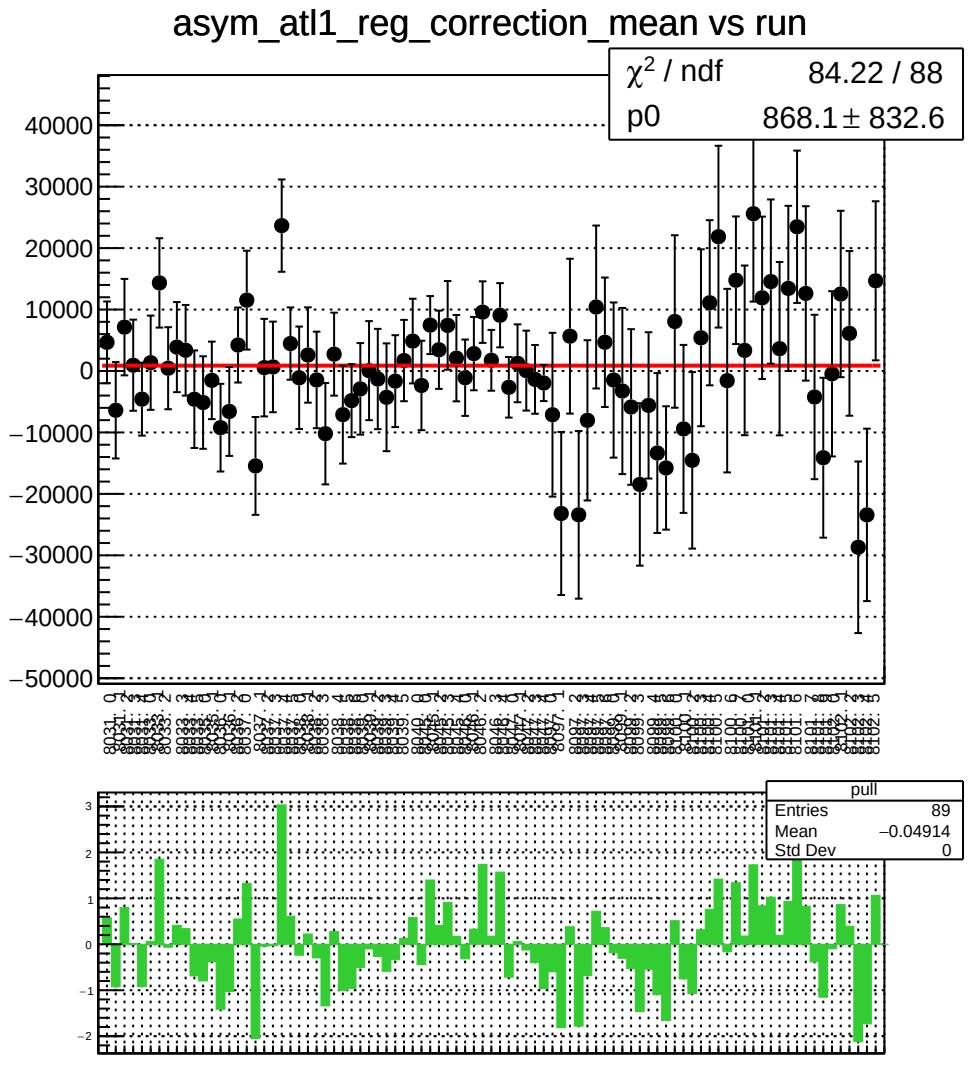

pull1D
Entries 89
Mean 0.002706
Std Dev 0.8595
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

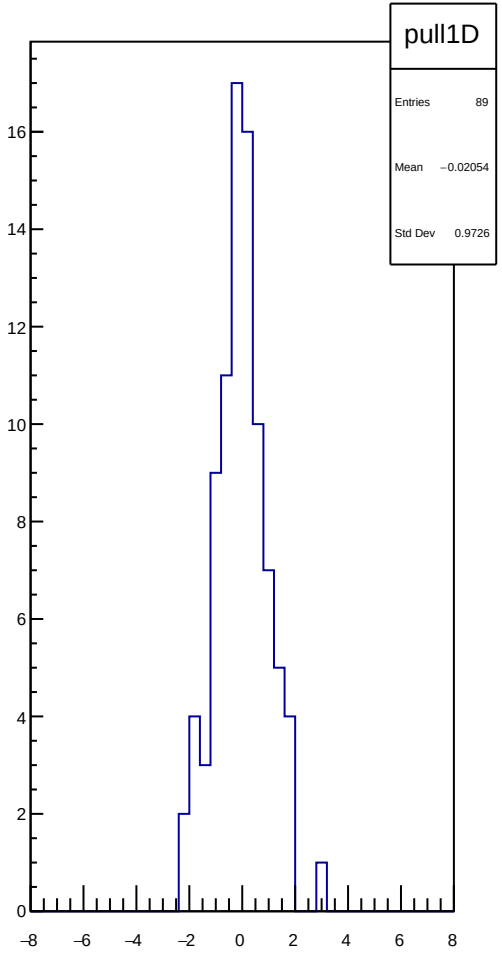

asym_us_agg_dd_rms vs run
χ² / ndf 749.8 / 88
p0 1386 ± 1.049
1480
1460
1440
1420
1400
1380
1360
1340
1320

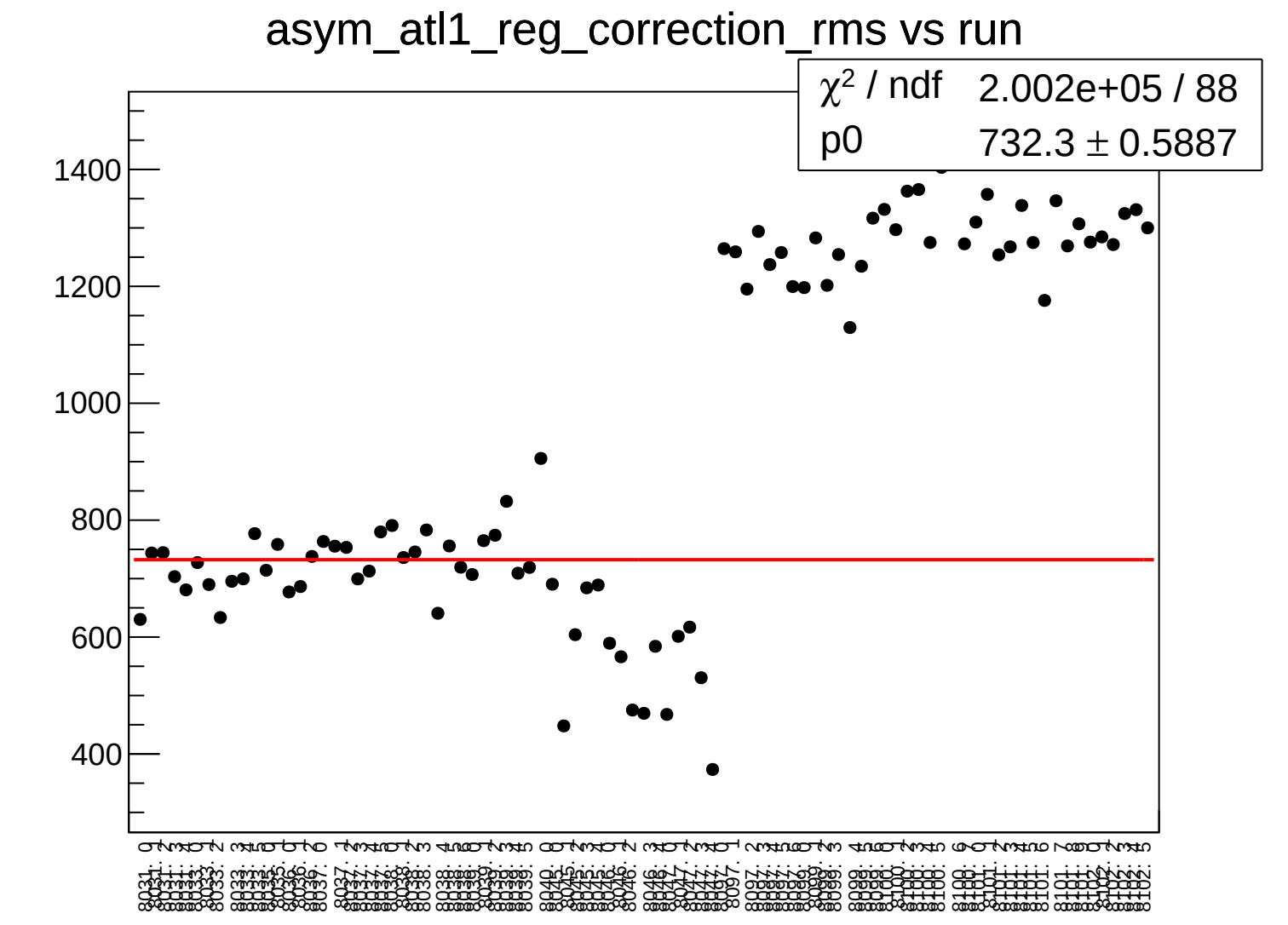

reg_asym_atl1_mean vs run
×10^3
χ^2 / ndf 82.94 / 88
p0 4733 ± 2532
pull
Entries 89
Mean −79.57
Std Dev 0

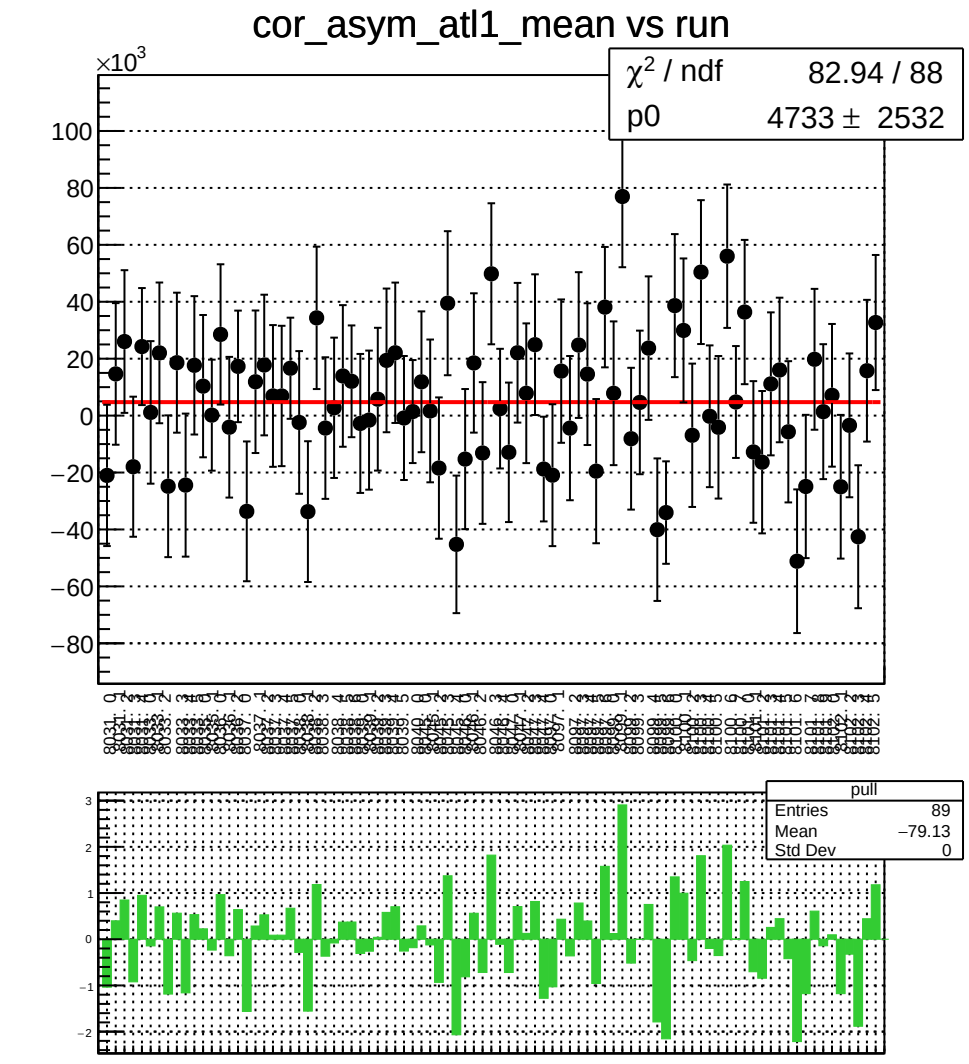

pull1D
Entries 89
Mean 0.005644
Std Dev 0.9653

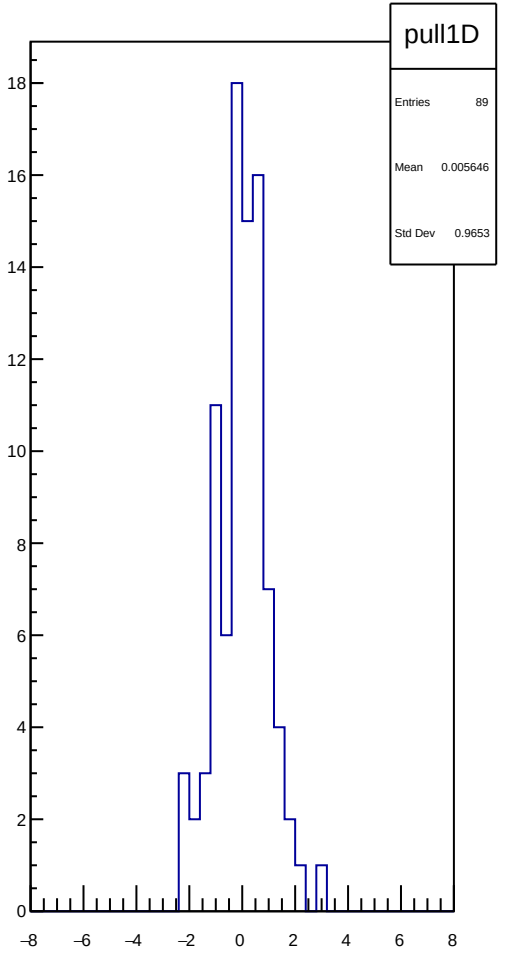

reg_asym_atl1_rms vs run
$\chi^2$ / ndf 180.1 / 88
p0 2367 ± 1.791
2460
2440
2420
2400
2380
2360
2340
2320
2300

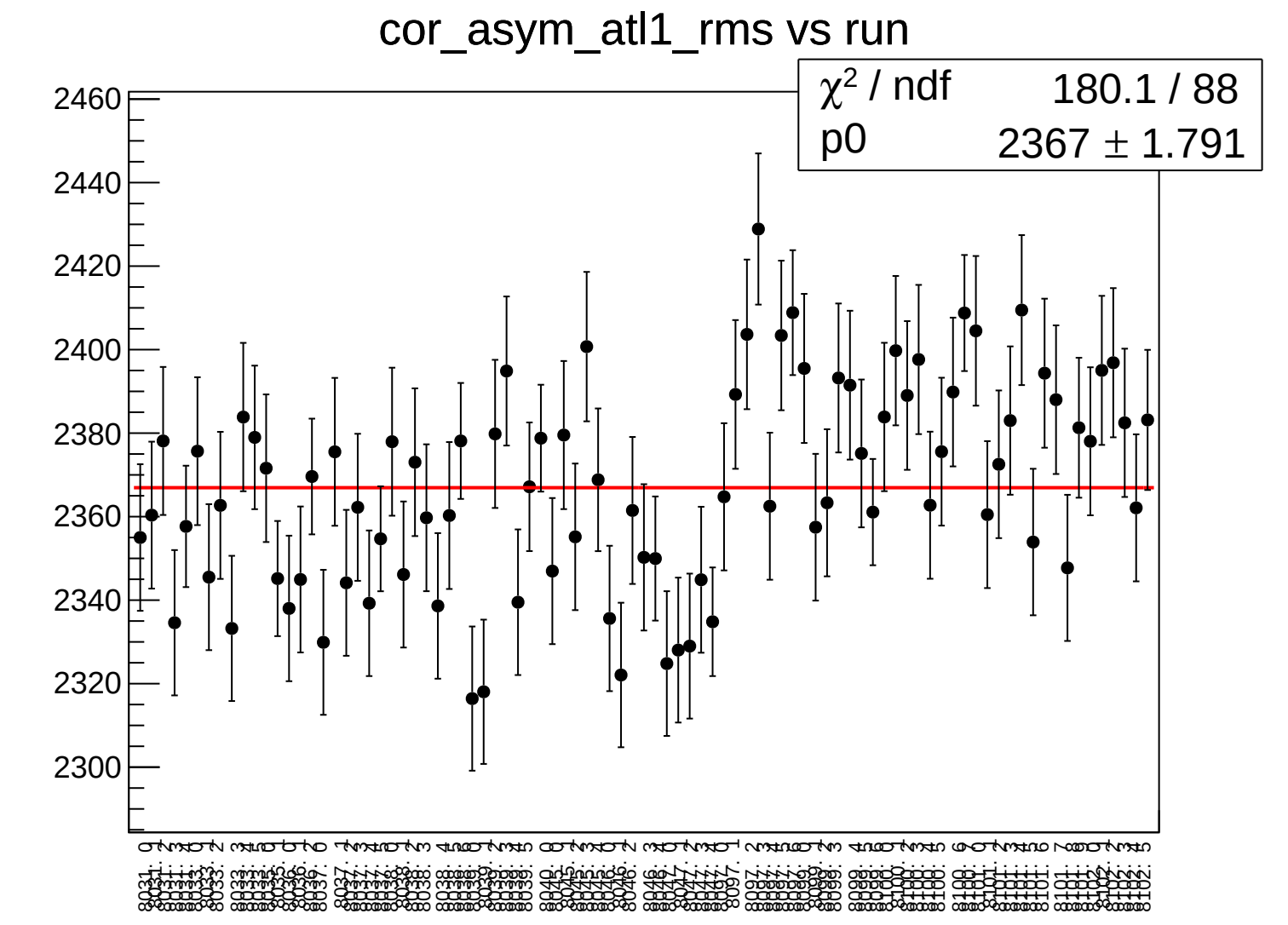

asym_atl1_reg_correction_mean vs run
χ² / ndf 84.22 / 88
p0 868.1 ± 832.6
pull
Entries 89
Mean −0.04914
Std Dev 0

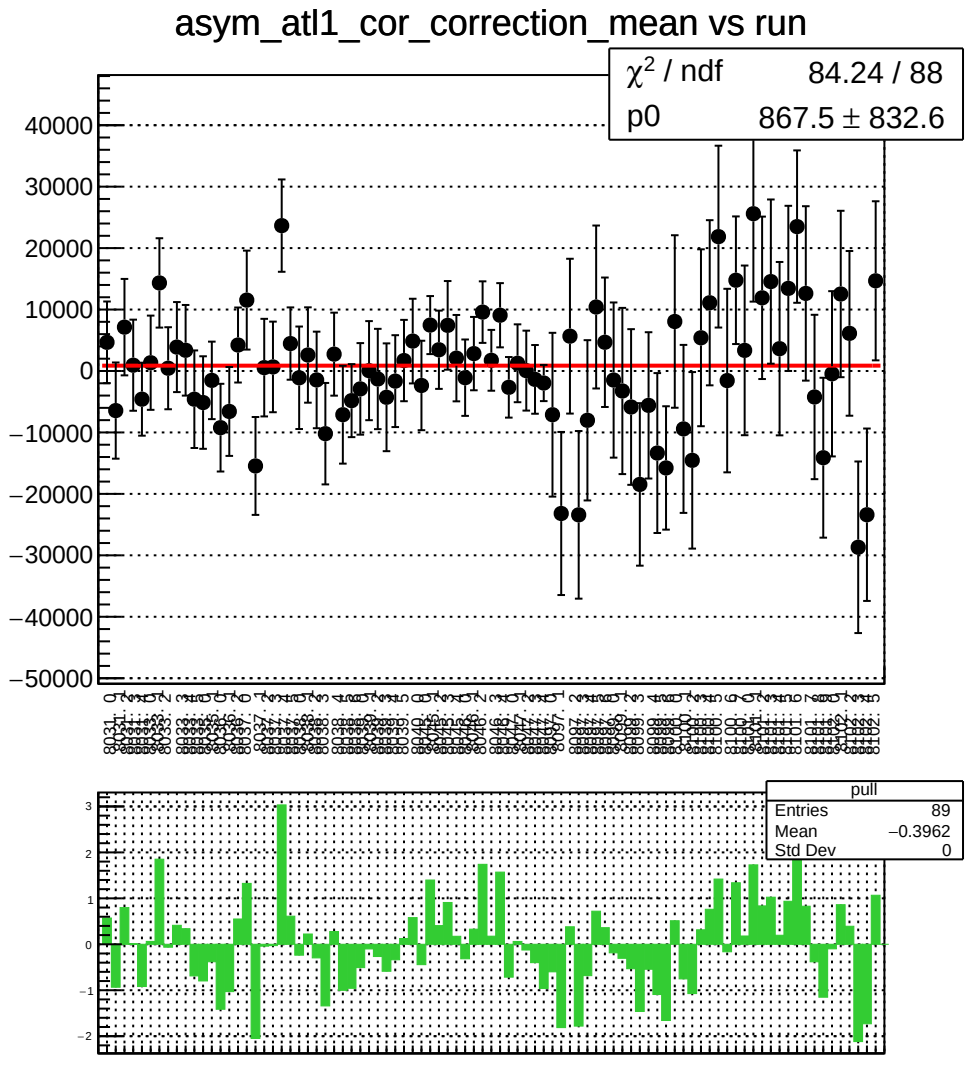

pull1D
Entries 89
Mean −0.02054
Std Dev 0.9726

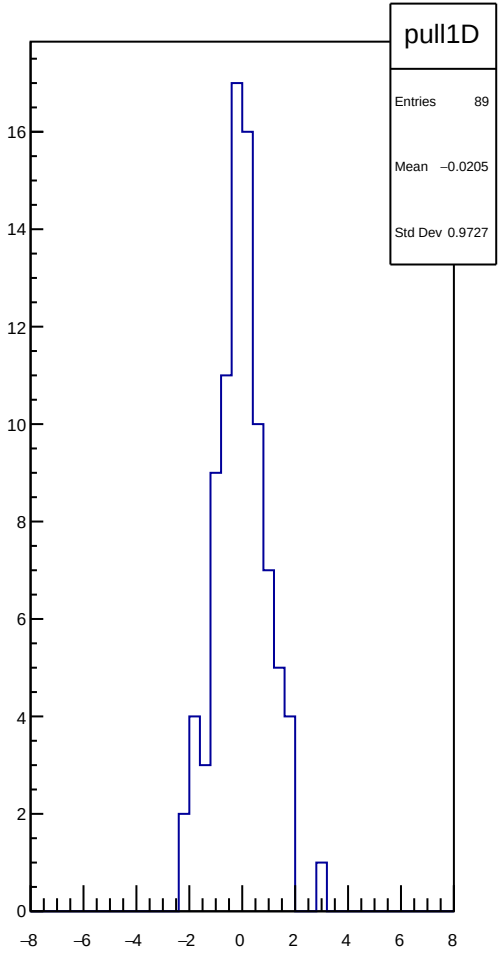

asym_atl1_reg_correction_rms vs run
χ² / ndf 2.002e+05 / 88
p0 732.3 ± 0.5887
1400
1200
1000
800
600
400

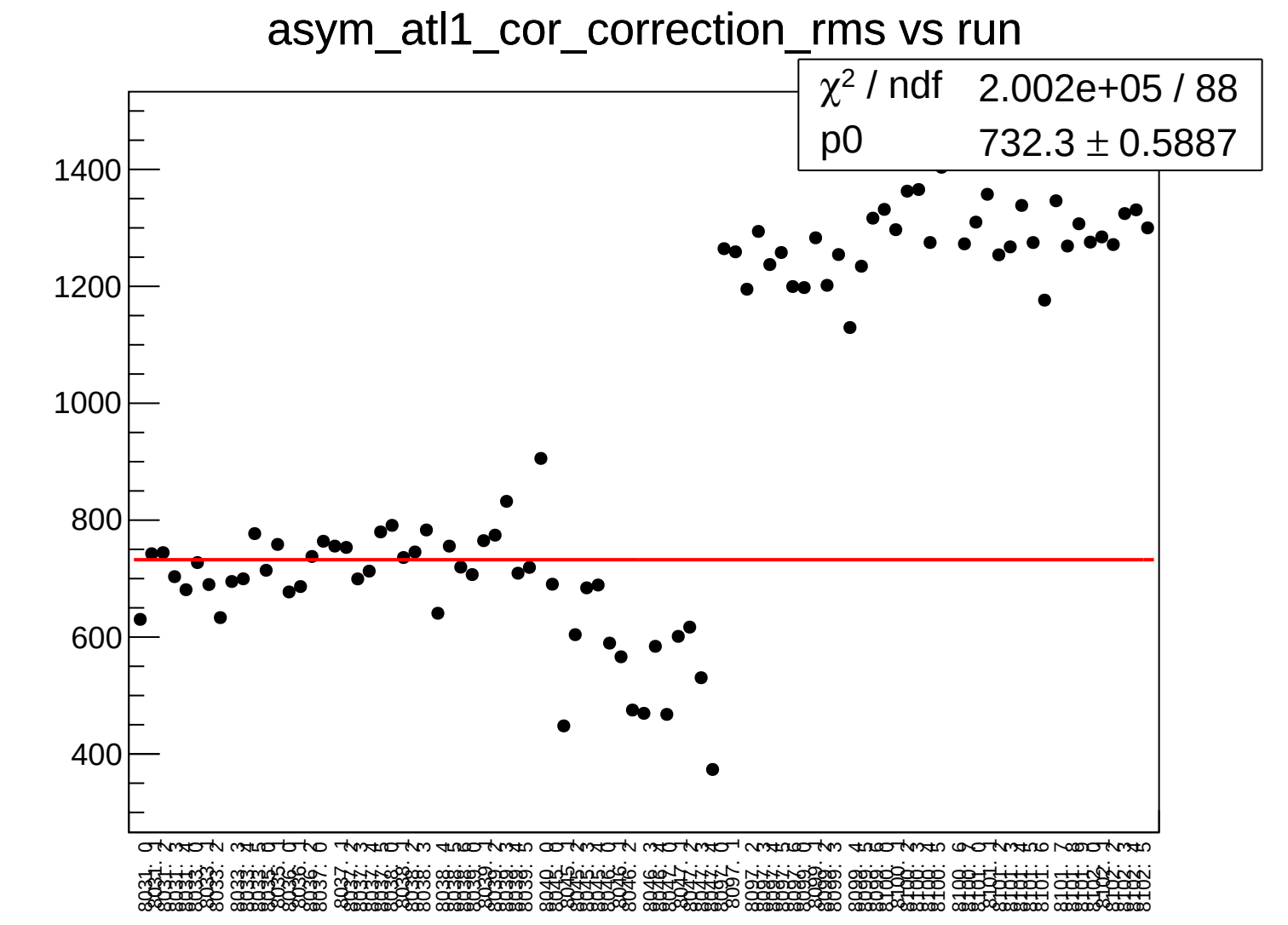

cor_asym_atl1_mean vs run
×10^3
χ^2 / ndf 82.94 / 88
p0 4733 ± 2532
pull
Entries 89
Mean −79.13
Std Dev 0

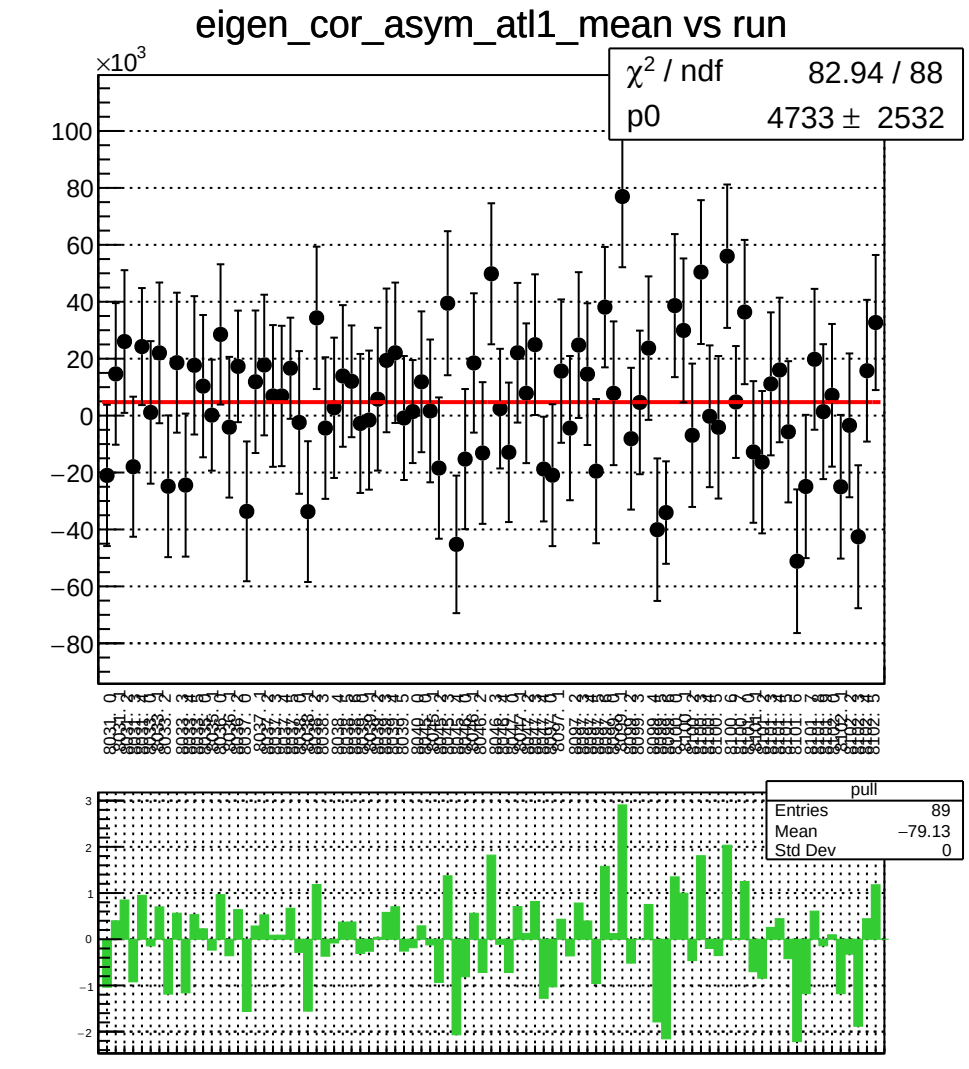

pull1D
Entries 89
Mean 0.005646
Std Dev 0.9653

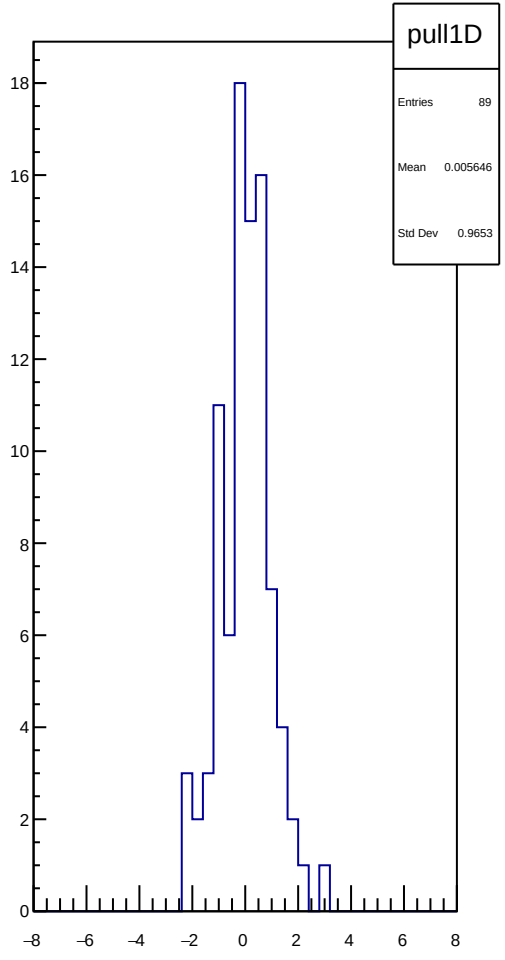

cor_asym_atl1_rms vs run
$\chi^2$ / ndf 180.1 / 88
p0 2367 ± 1.791
2460
2440
2420
2400
2380
2360
2340
2320
2300

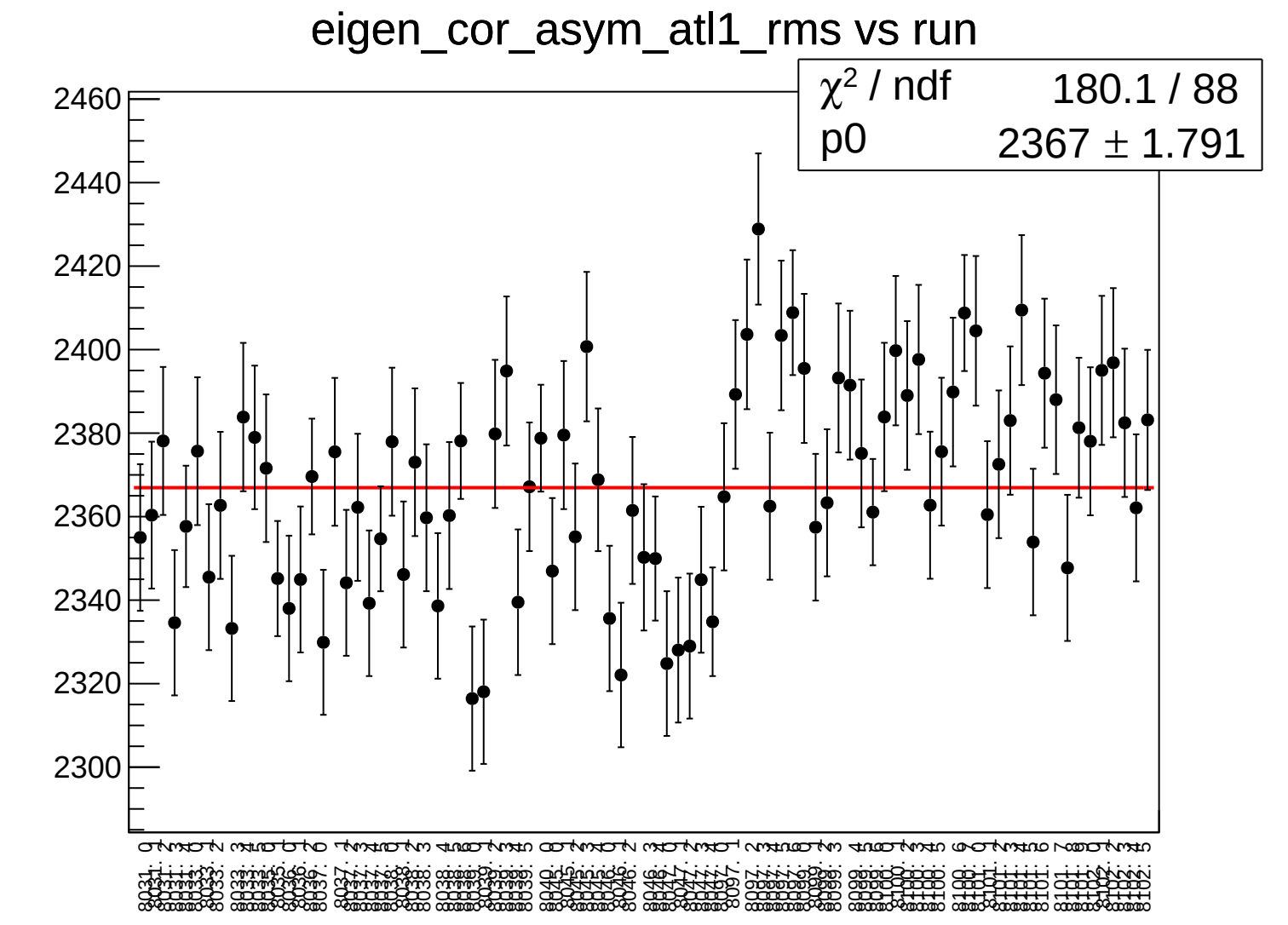

asym_atl1_cor_correction_mean vs run
χ² / ndf 84.24 / 88
p0 867.5 ± 832.6
pull
Entries 89
Mean −0.3962
Std Dev 0

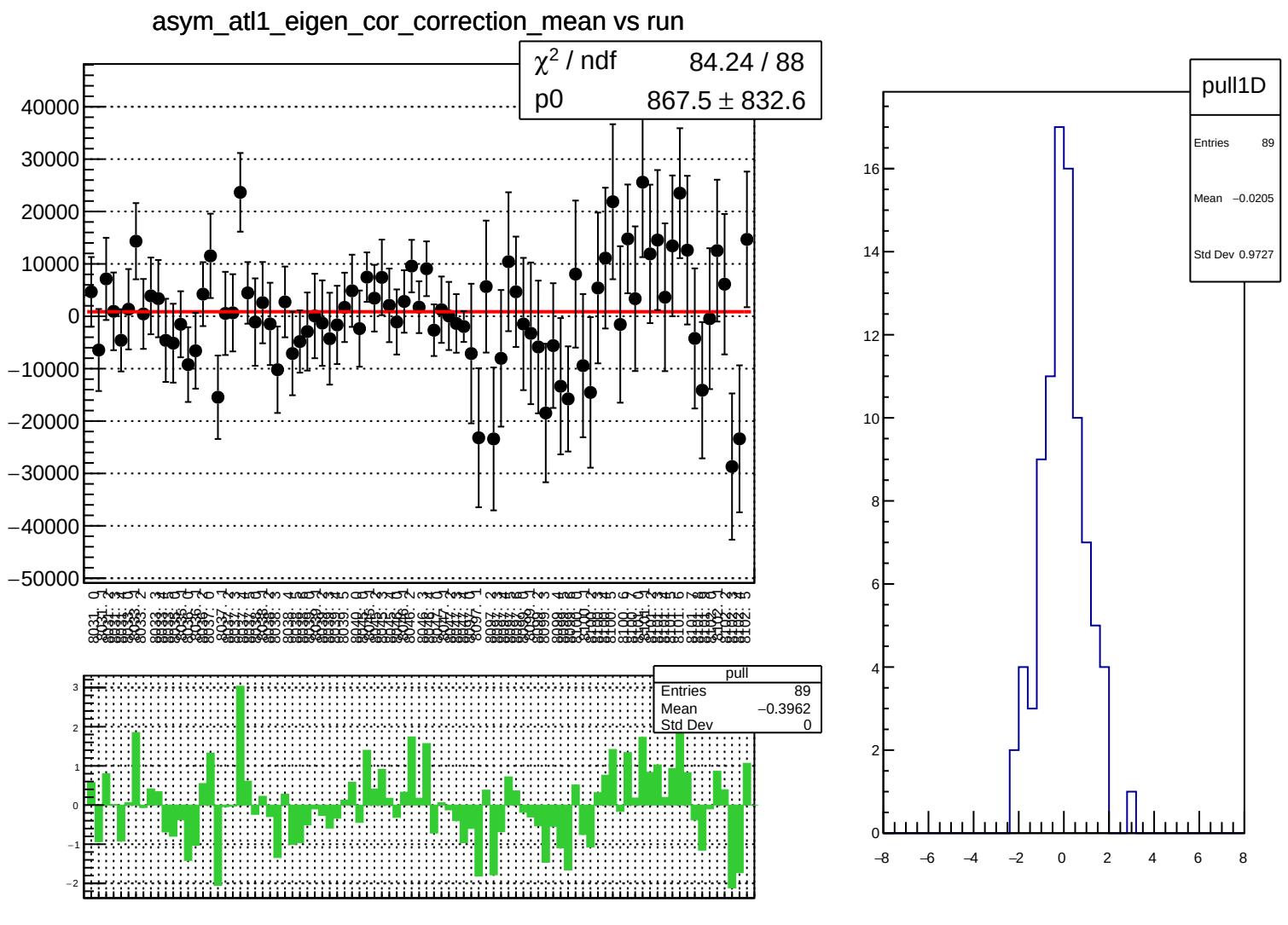

pull1D
Entries 89
Mean −0.0205
Std Dev 0.9727

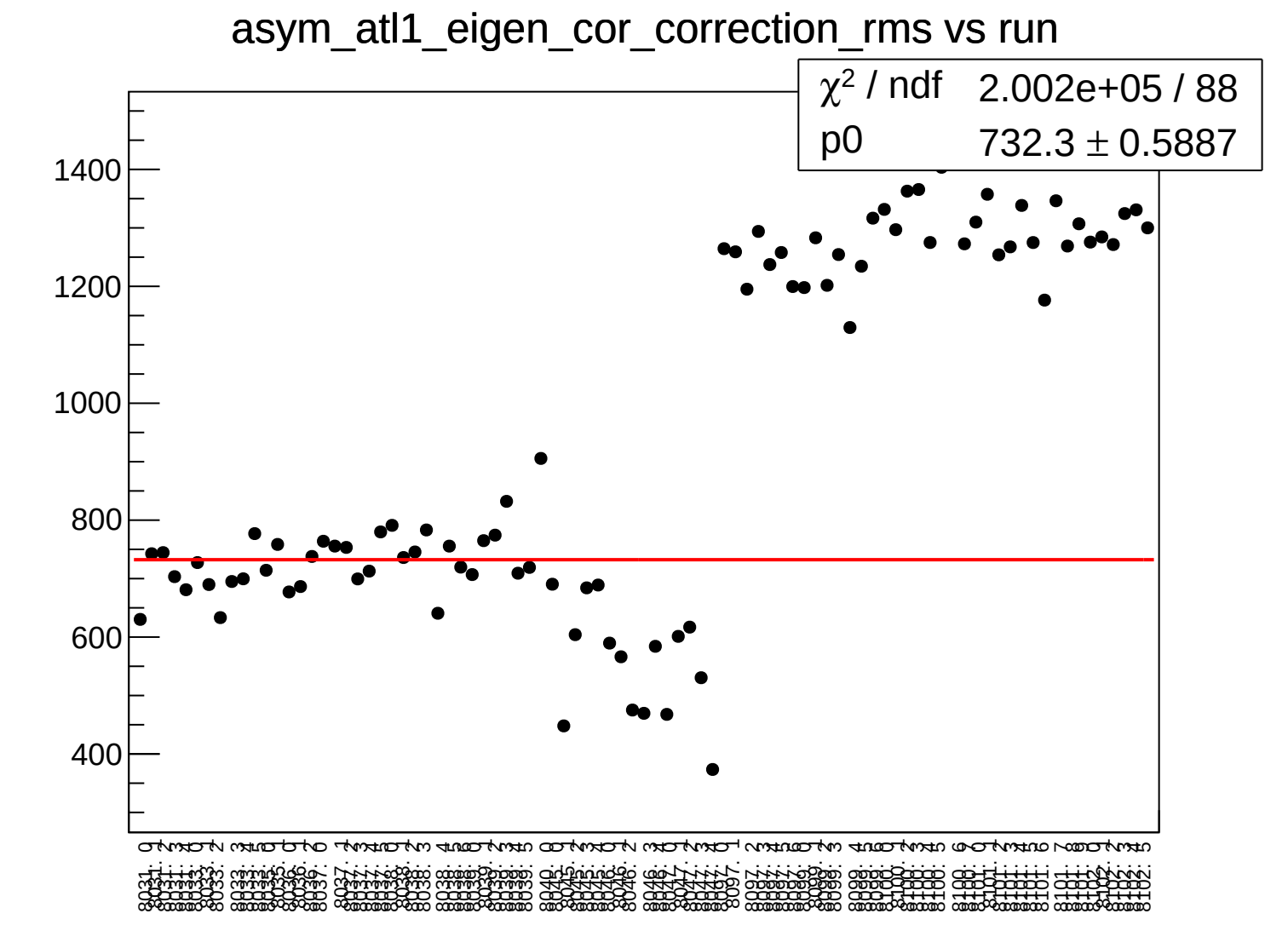

asym_atl1_cor_correction_rms vs run
χ² / ndf 2.002e+05 / 88
p0 732.3 ± 0.5887
1400
1200
1000
800
600
400

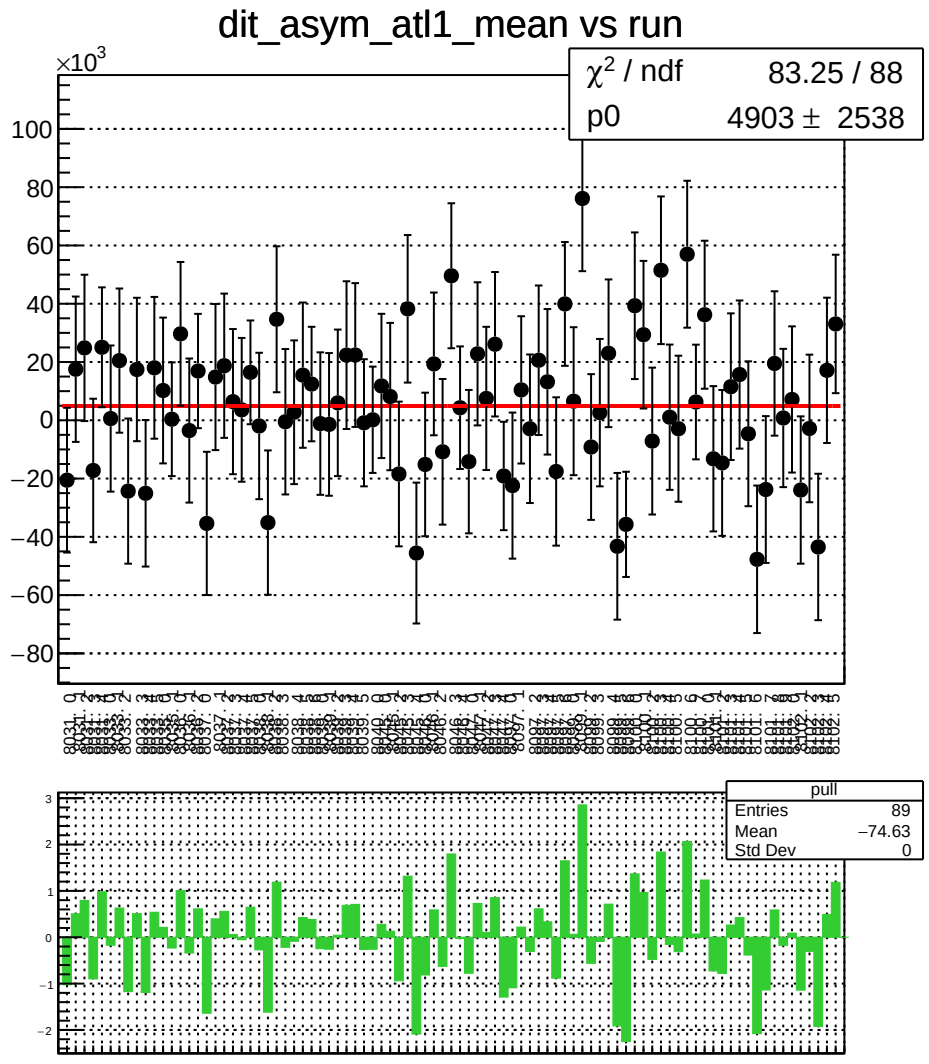

eigen_cor_asym_atl1_mean vs run
×10^3
χ^2 / ndf 82.94 / 88
p0 4733 ± 2532
100
80
60
40
20
0
−20
−40
−60
−80
pull
Entries 89
Mean −79.13
Std Dev 0
3
2
1
0
−1
−2

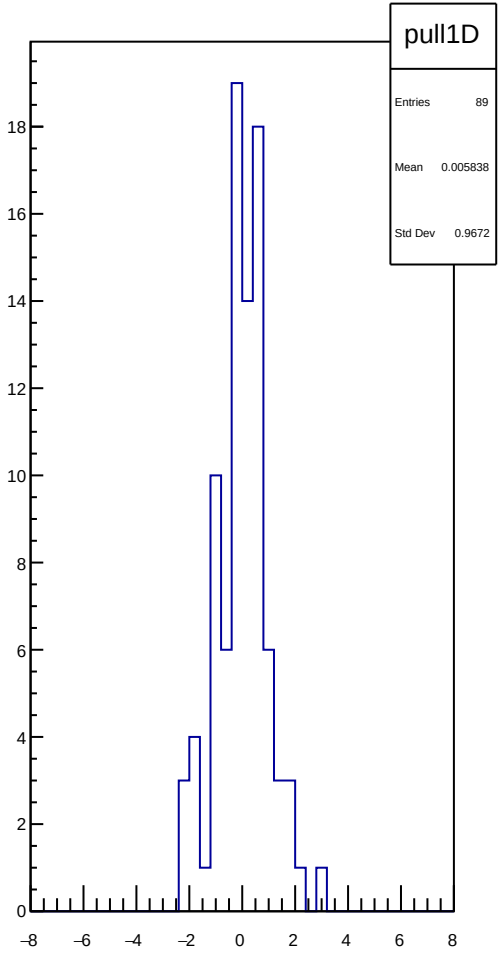

pull1D
Entries 89
Mean 0.005646
Std Dev 0.9653
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

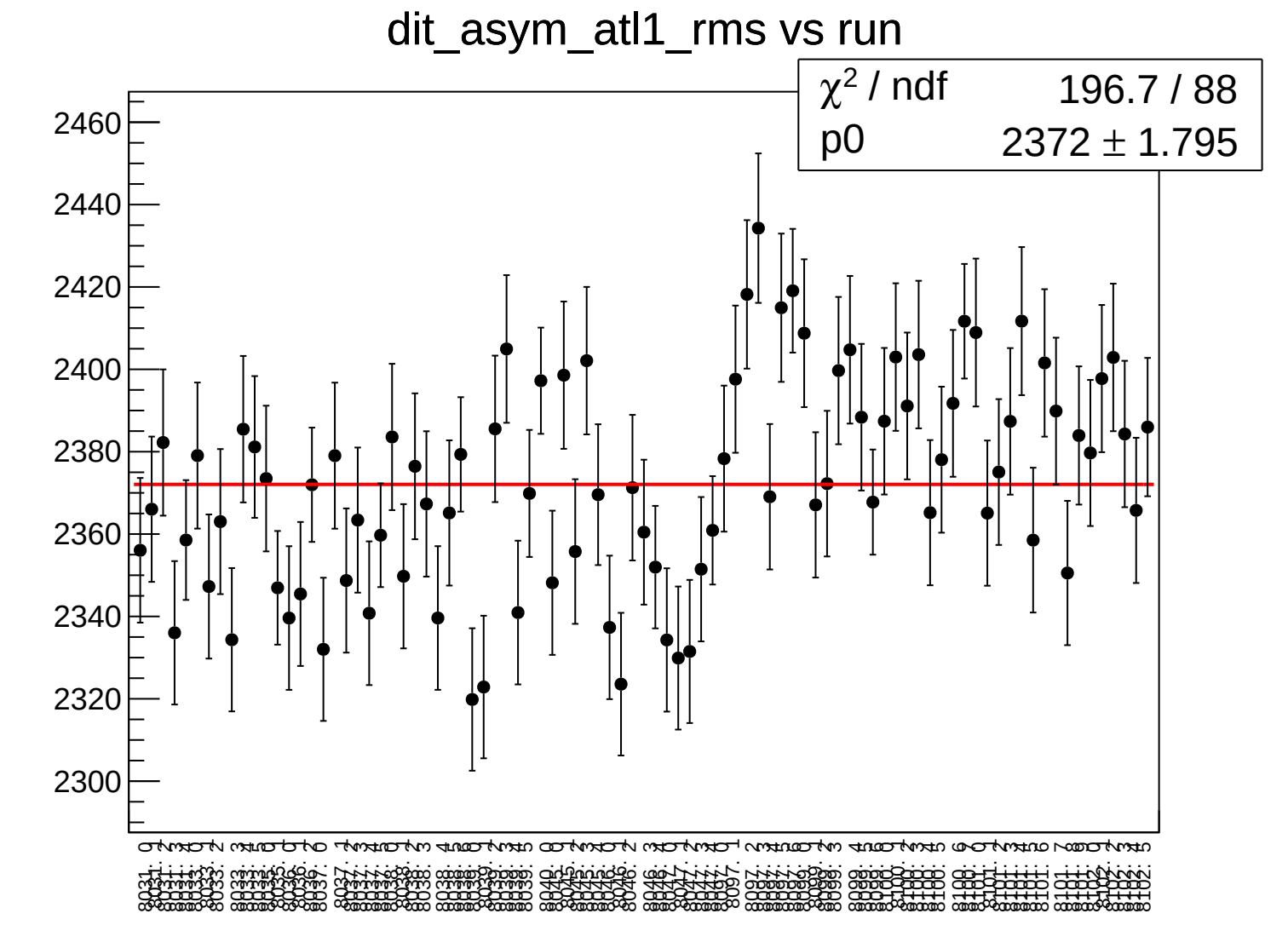

eigen_cor_asym_atl1_rms vs run
χ² / ndf 180.1 / 88
p0 2367 ± 1.791
2460
2440
2420
2400
2380
2360
2340
2320
2300

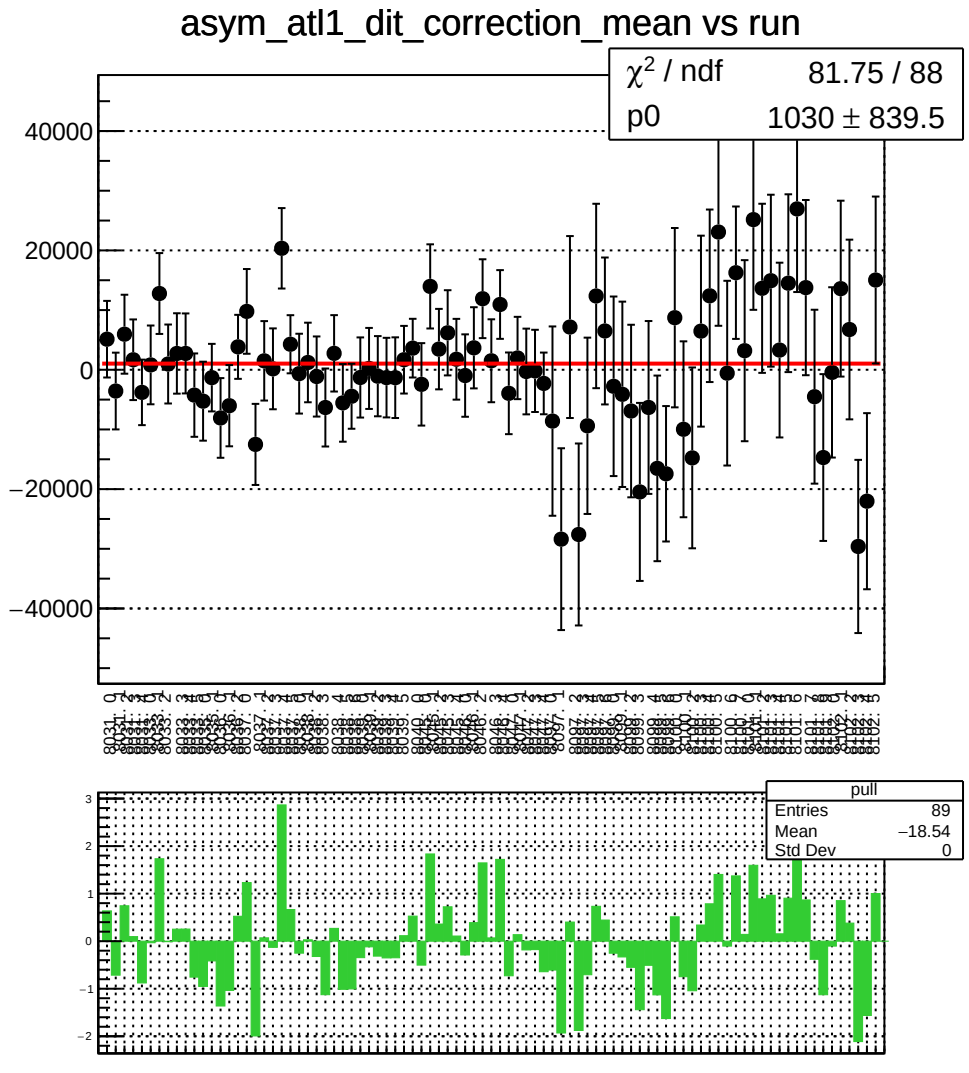

asym_atl1_eigen_cor_correction_mean vs run
χ² / ndf 84.24 / 88
p0 867.5 ± 832.6
pull
Entries 89
Mean −0.3962
Std Dev 0
pull1D
Entries 89
Mean −0.0205
Std Dev 0.9727

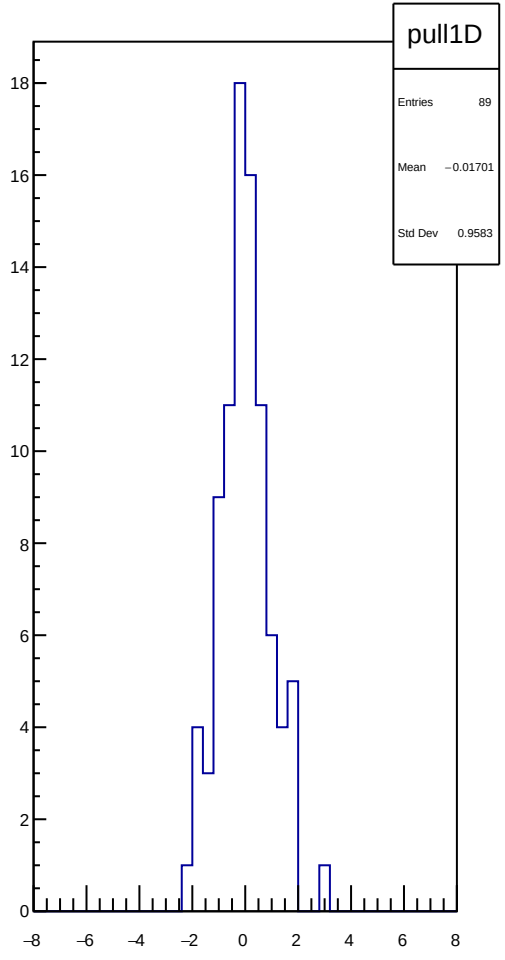

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 2.002e+05 / 88
p0 732.3 ± 0.5887
1400
1200
1000
800
600
400

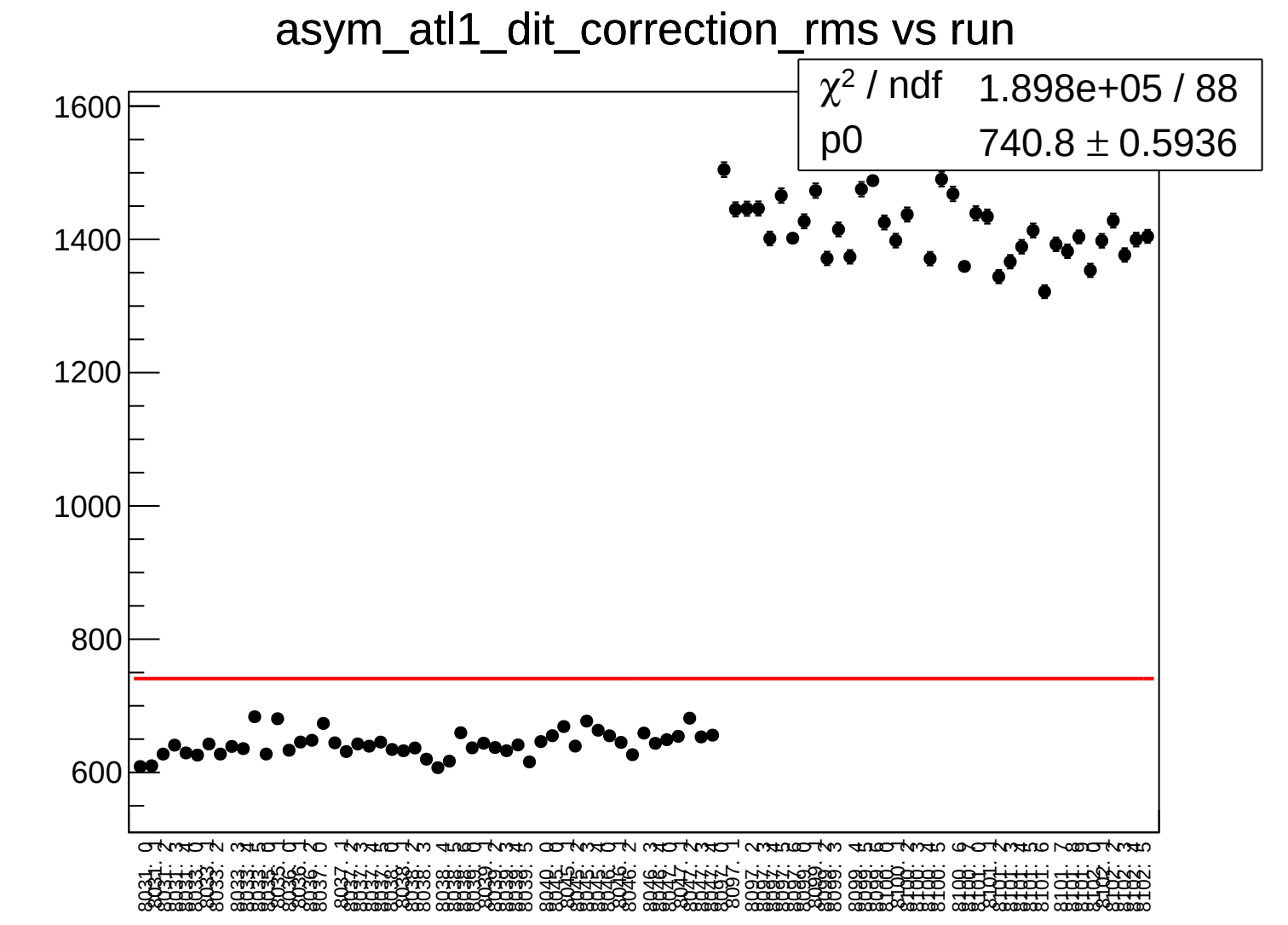

dit_asym_atl1_mean vs run
×10^3
χ^2 / ndf 83.25 / 88
p0 4903 ± 2538
pull
Entries 89
Mean −74.63
Std Dev 0

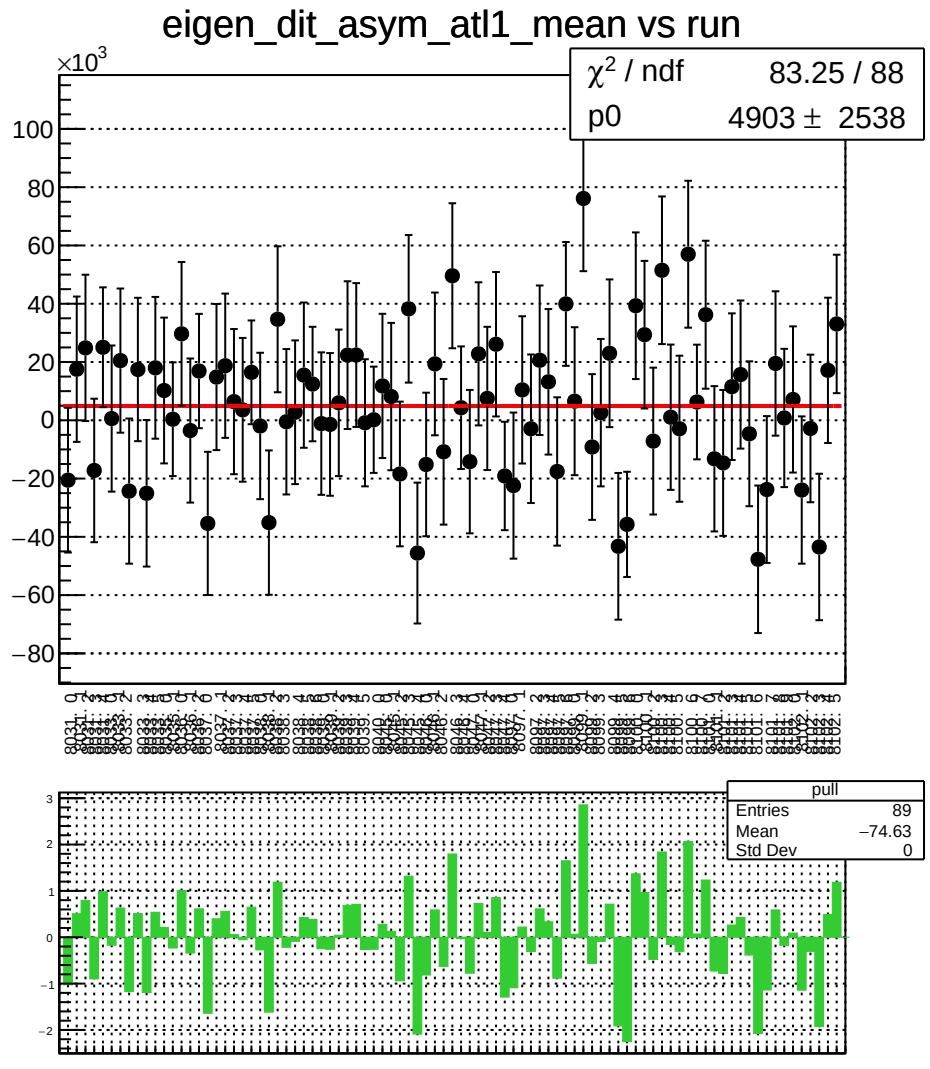

pull1D
Entries 89
Mean 0.005838
Std Dev 0.9672

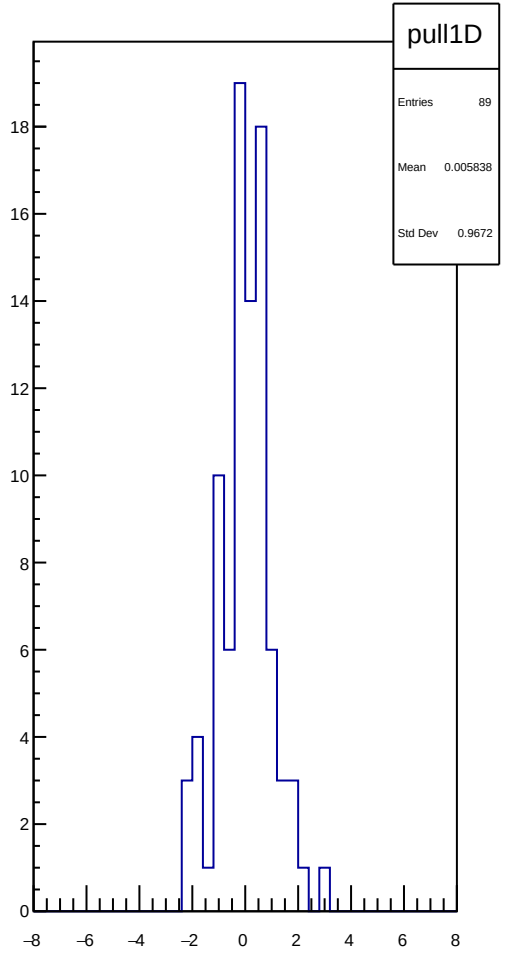

dit_asym_atl1_rms vs run
χ² / ndf 196.7 / 88
p0 2372 ± 1.795
2460
2440
2420
2400
2380
2360
2340
2320
2300

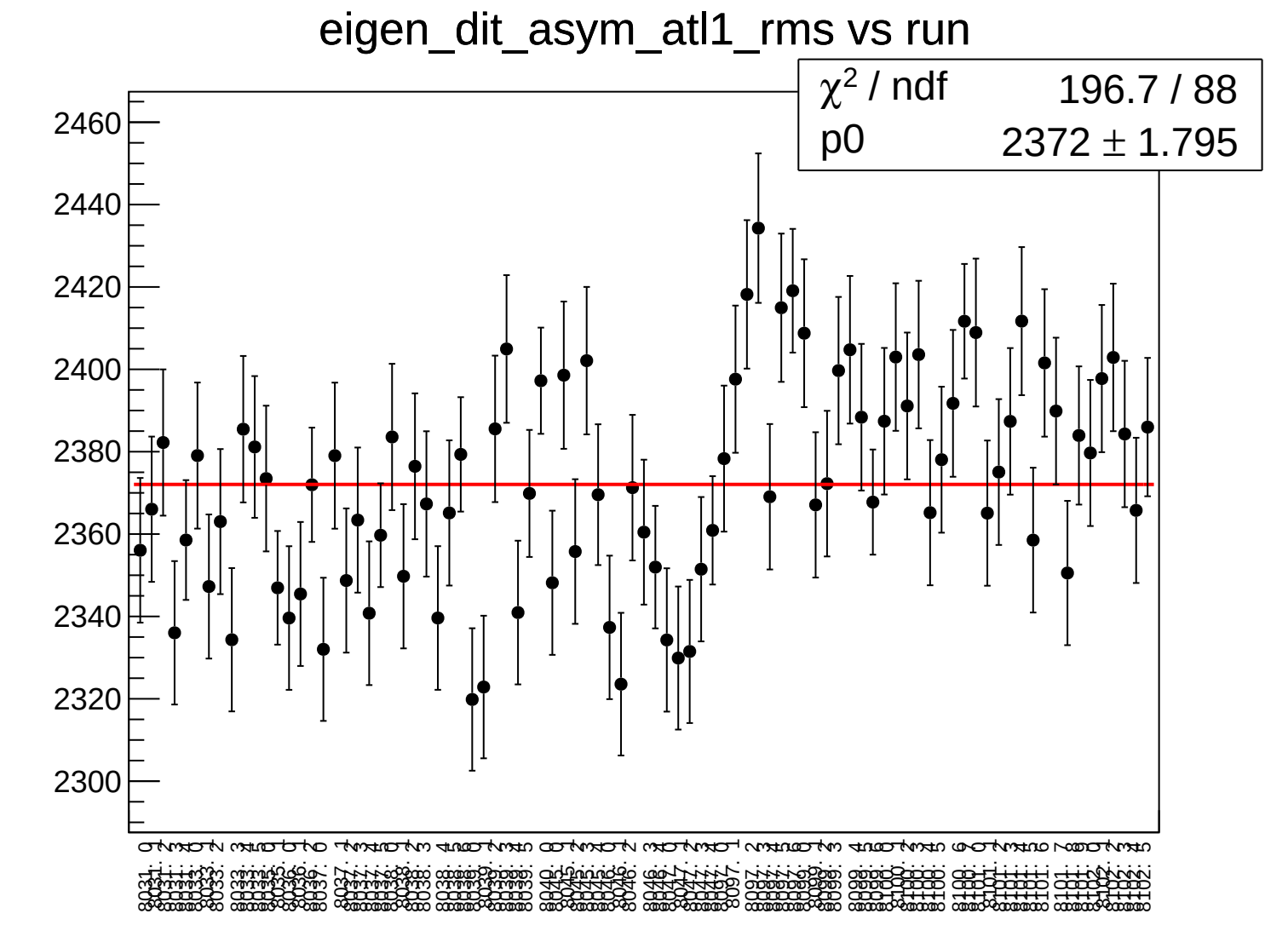

asym_atl1_dit_correction_mean vs run
χ² / ndf 81.75 / 88
p0 1030 ± 839.5
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −18.54
Std Dev 0
3
2
1
0
−1
−2

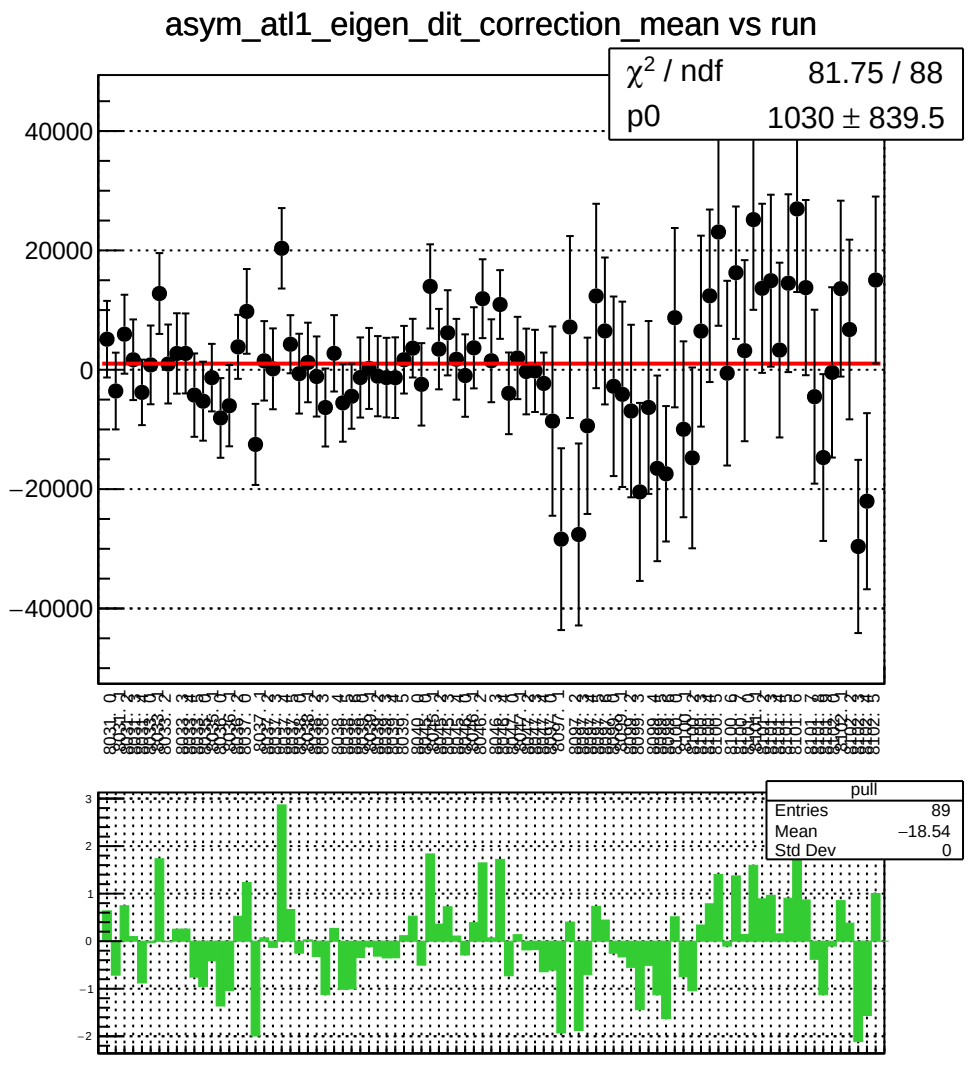

pull1D
Entries 89
Mean −0.01701
Std Dev 0.9583
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

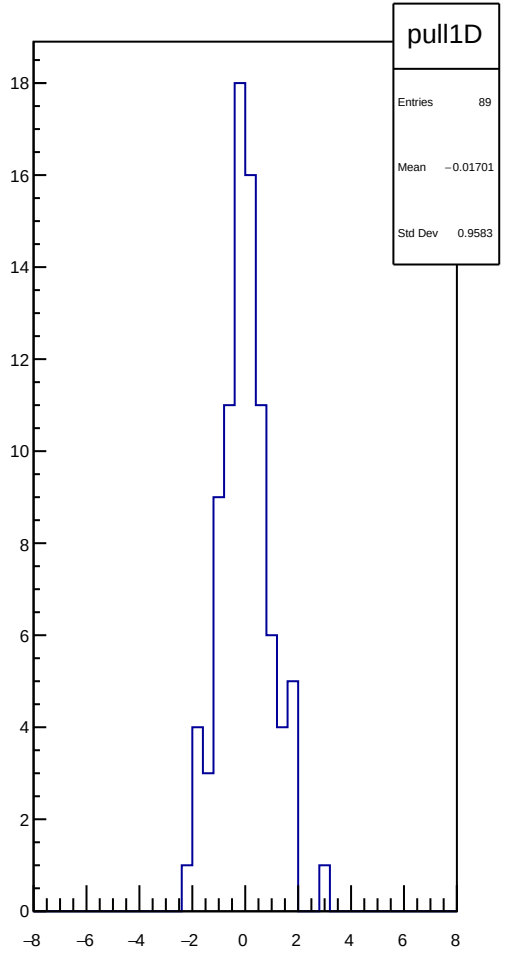

asym_atl1_dit_correction_rms vs run
χ² / ndf 1.898e+05 / 88
p0 740.8 ± 0.5936
1600
1400
1200
1000
800
600

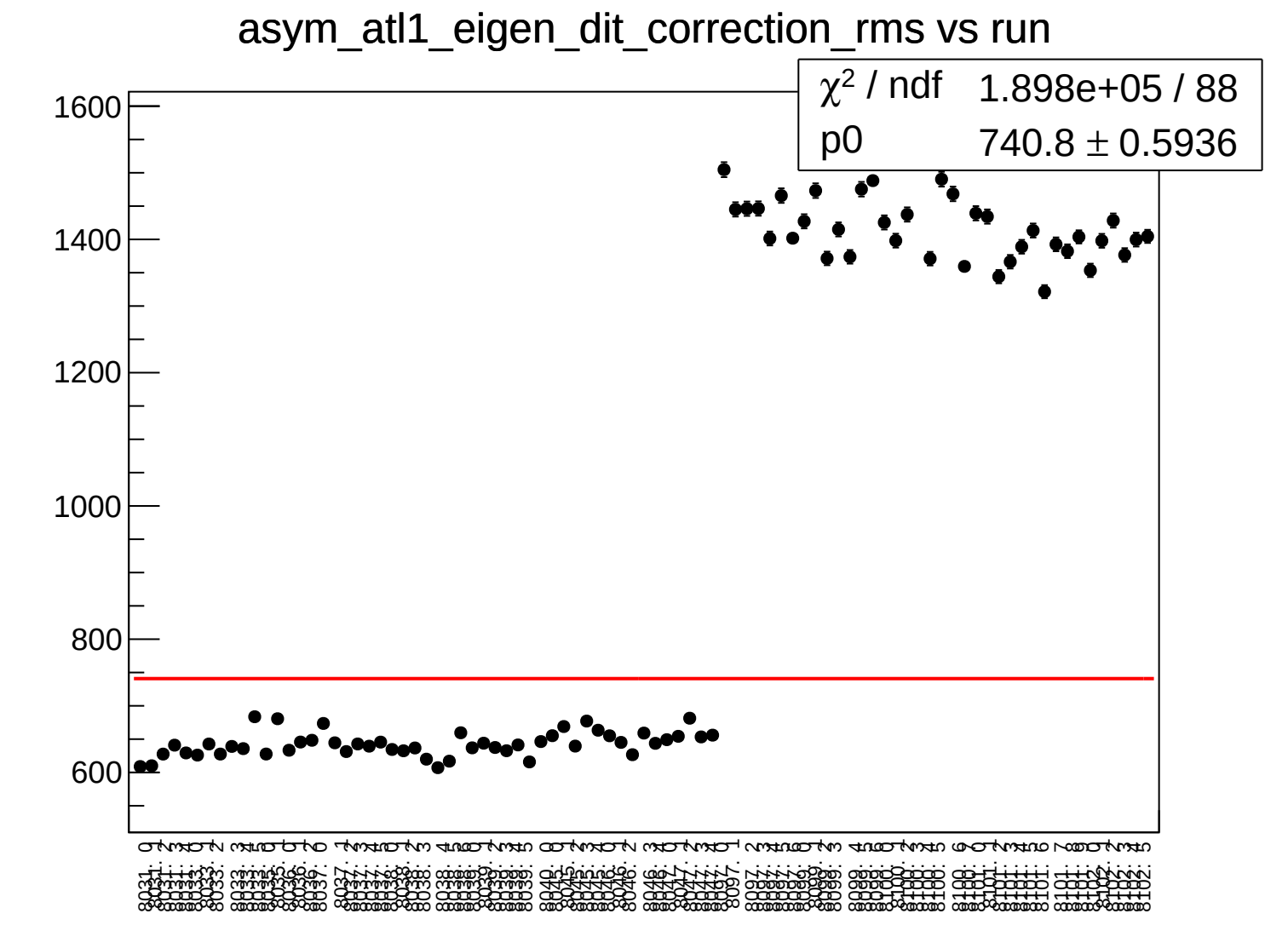

eigen_dit_asym_atl1_mean vs run
×10^3
χ^2 / ndf 83.25 / 88
p0 4903 ± 2538
100
80
60
40
20
0
−20
−40
−60
−80
pull
Entries 89
Mean −74.63
Std Dev 0
3
2
1
0
−1
−2

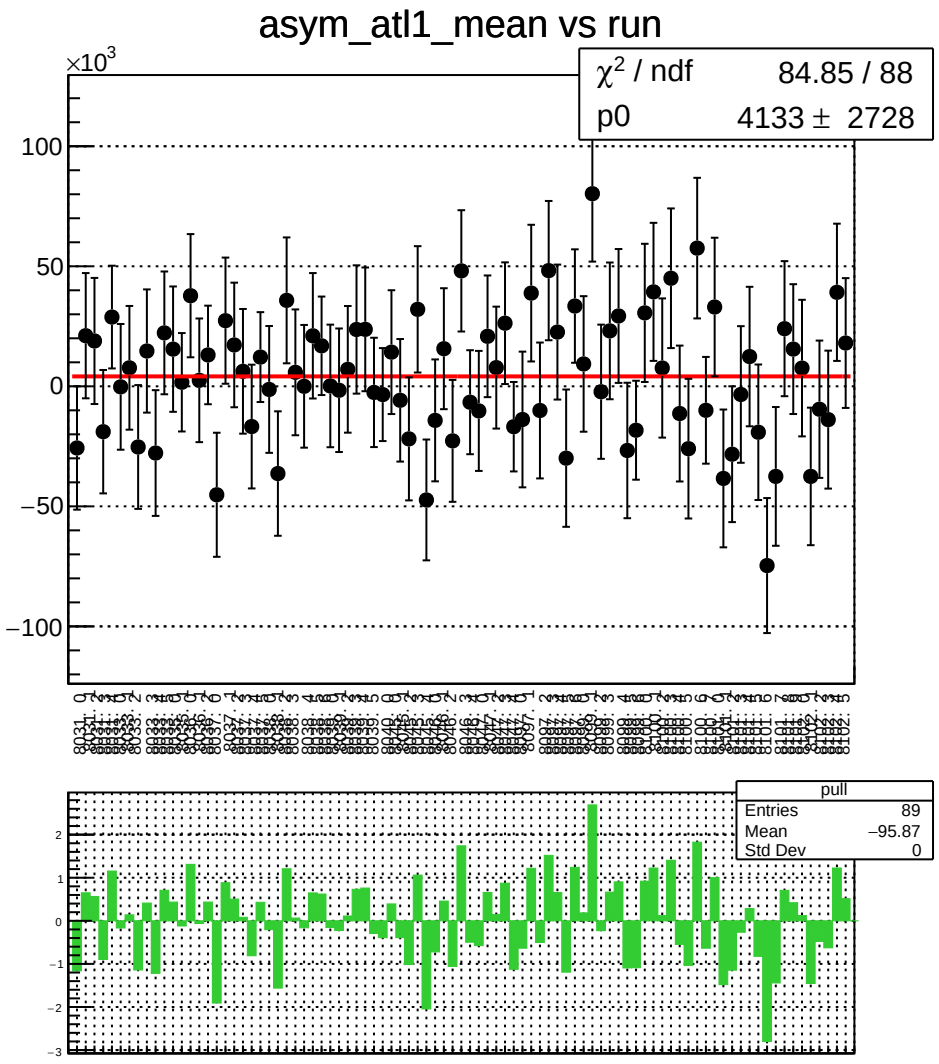

pull1D
Entries 89
Mean 0.005838
Std Dev 0.9672
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

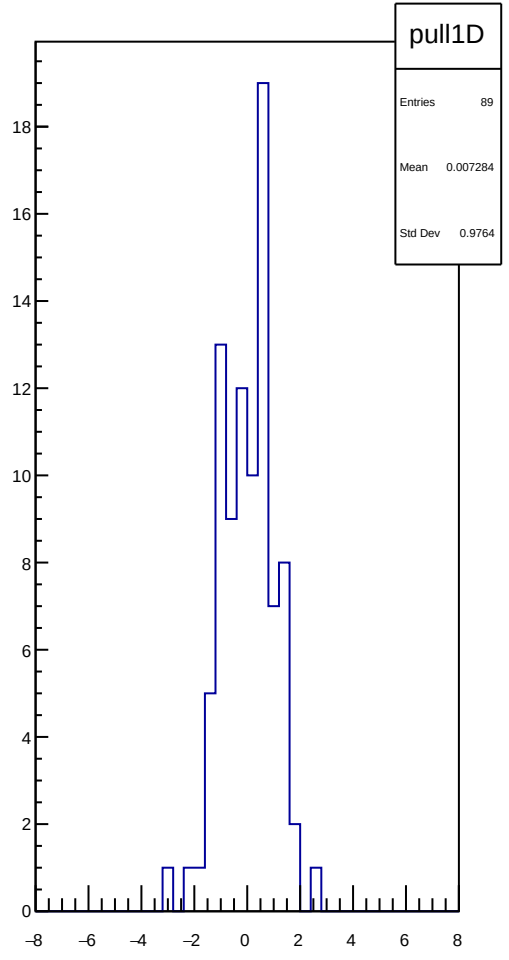

eigen_dit_asym_atl1_rms vs run
$\chi^2$ / ndf 196.7 / 88
p0 2372 ± 1.795
2460
2440
2420
2400
2380
2360
2340
2320
2300

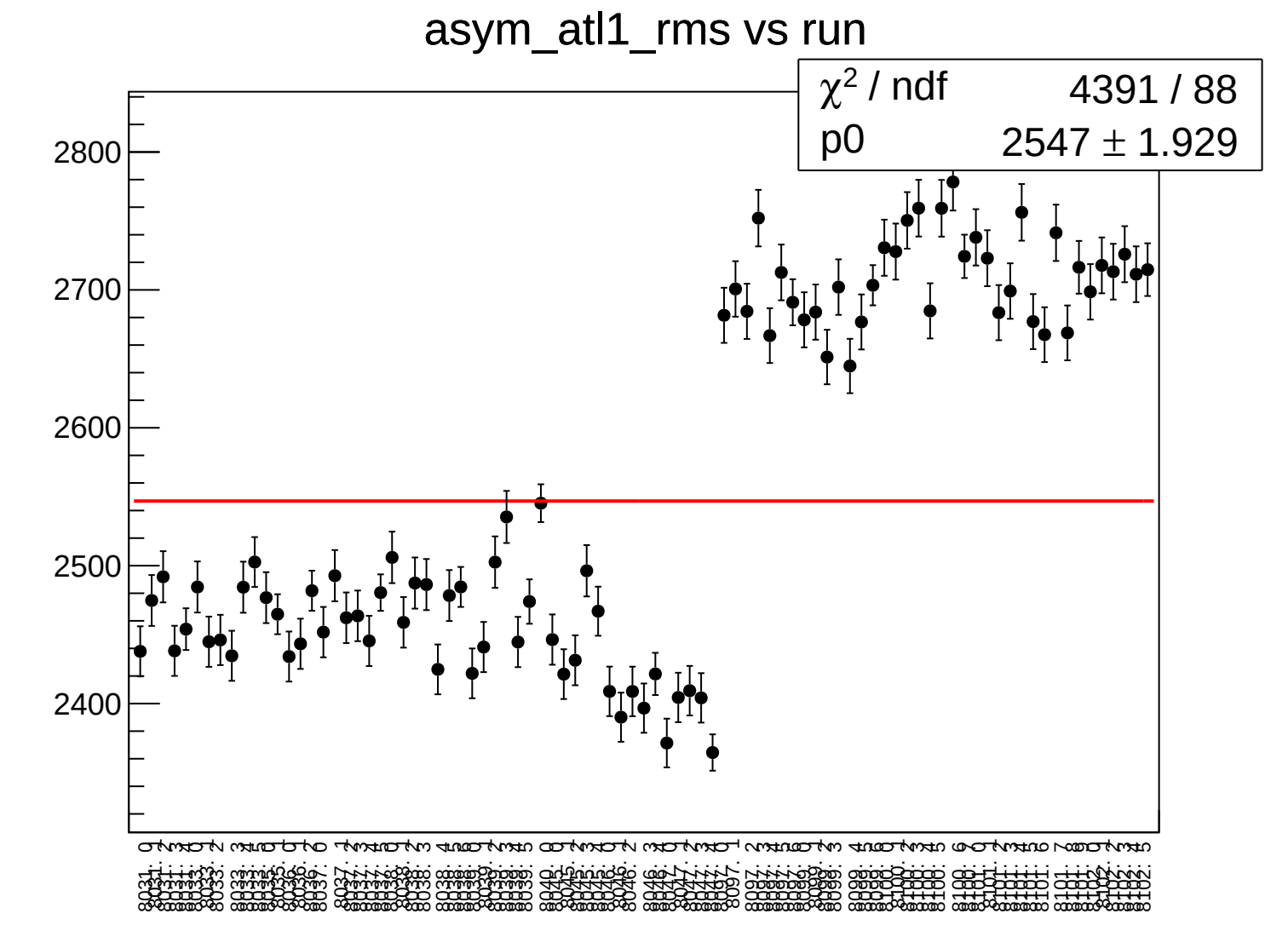

asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 81.75 / 88
p0 1030 ± 839.5
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −18.54
Std Dev 0
3
2
1
0
−1
−2

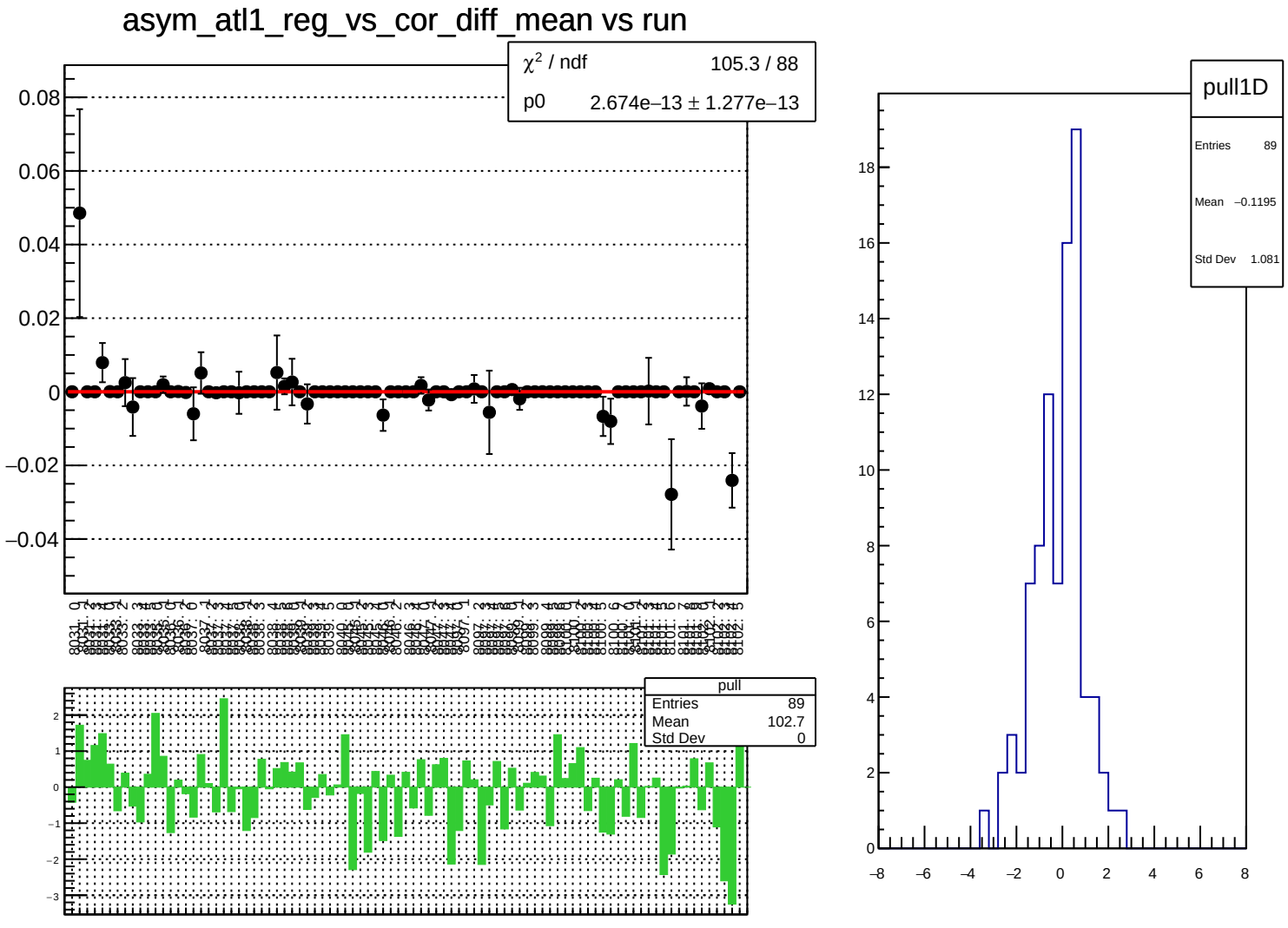

pull1D
Entries 89
Mean −0.01701
Std Dev 0.9583
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

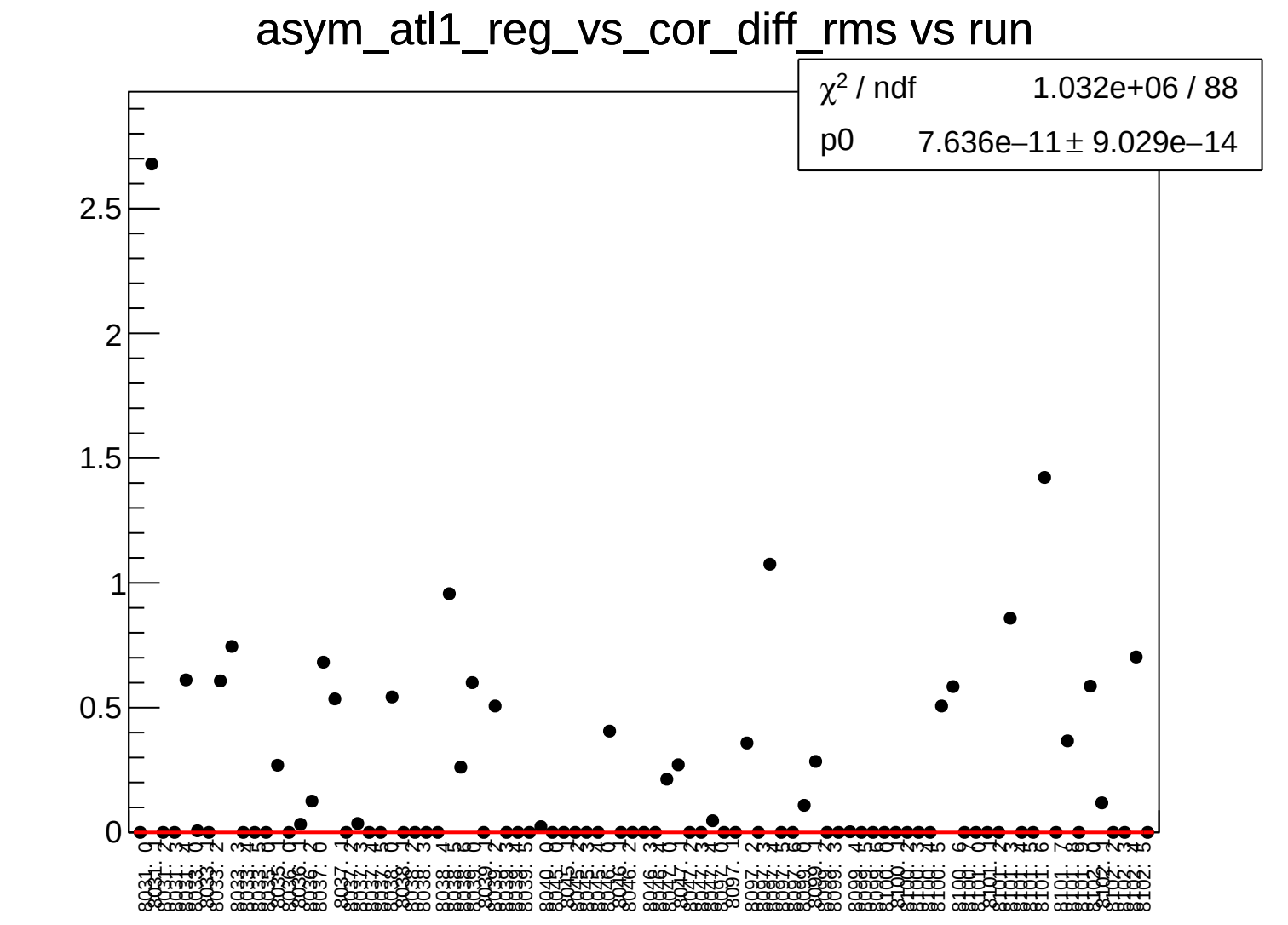

asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 1.898e+05 / 88
p0 740.8 ± 0.5936
1600
1400
1200
1000
800
600

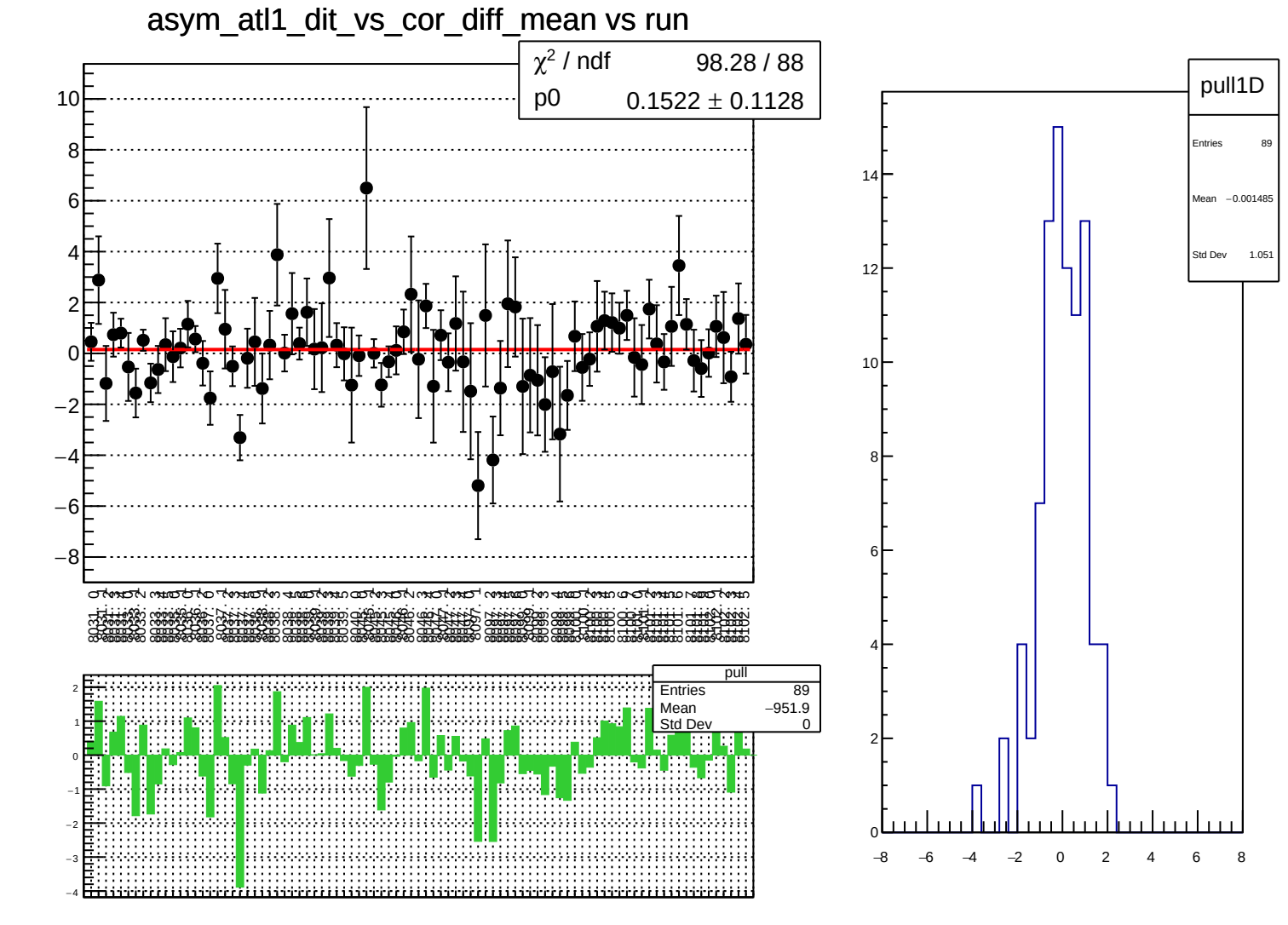

asym_atl1_mean vs run
×10^3
χ^2 / ndf 84.85 / 88
p0 4133 ± 2728
100
50
0
−50
−100
pull
Entries 89
Mean −95.87
Std Dev 0
2
1
0
−1
−2
−3

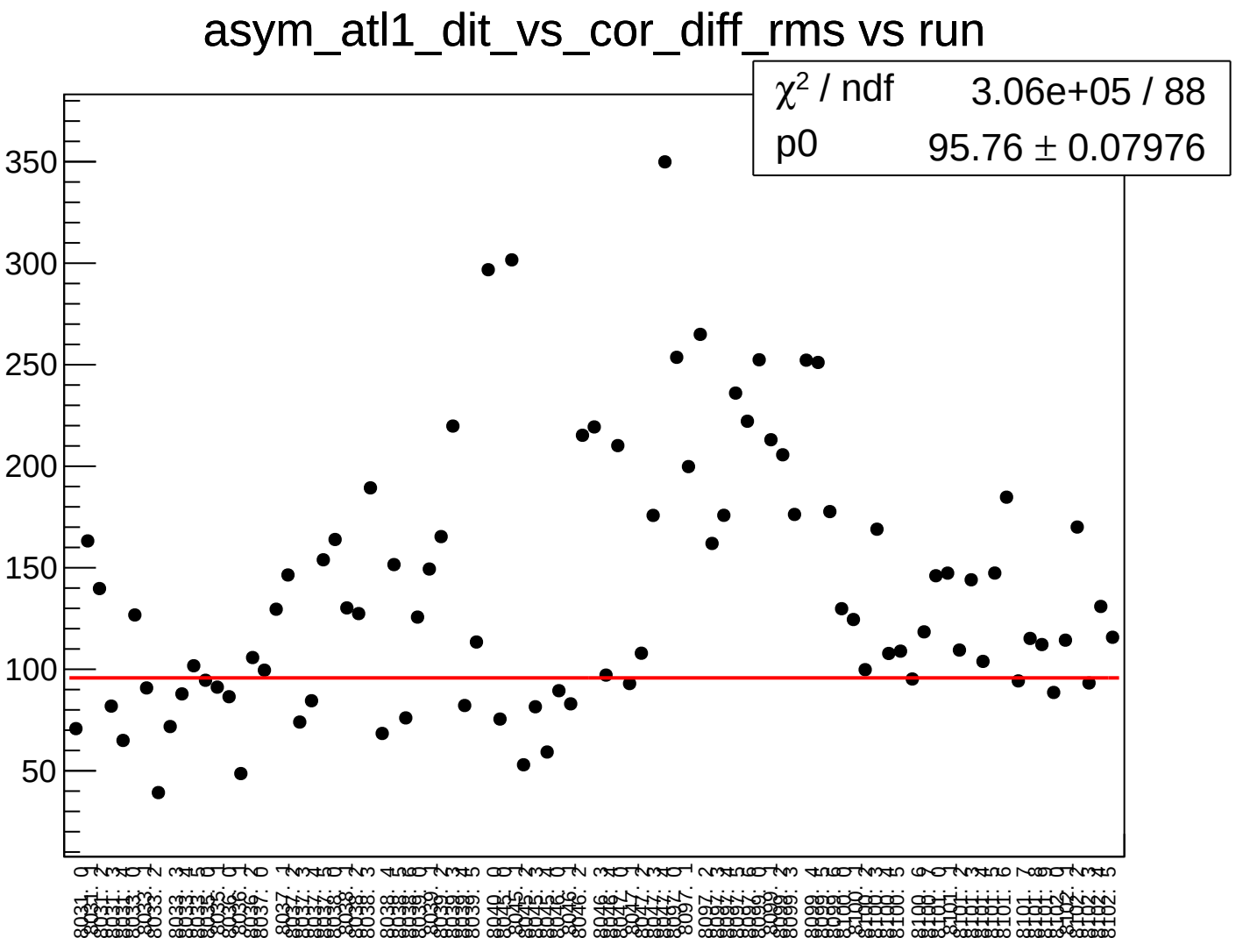

pull1D
Entries 89
Mean 0.007284
Std Dev 0.9764
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

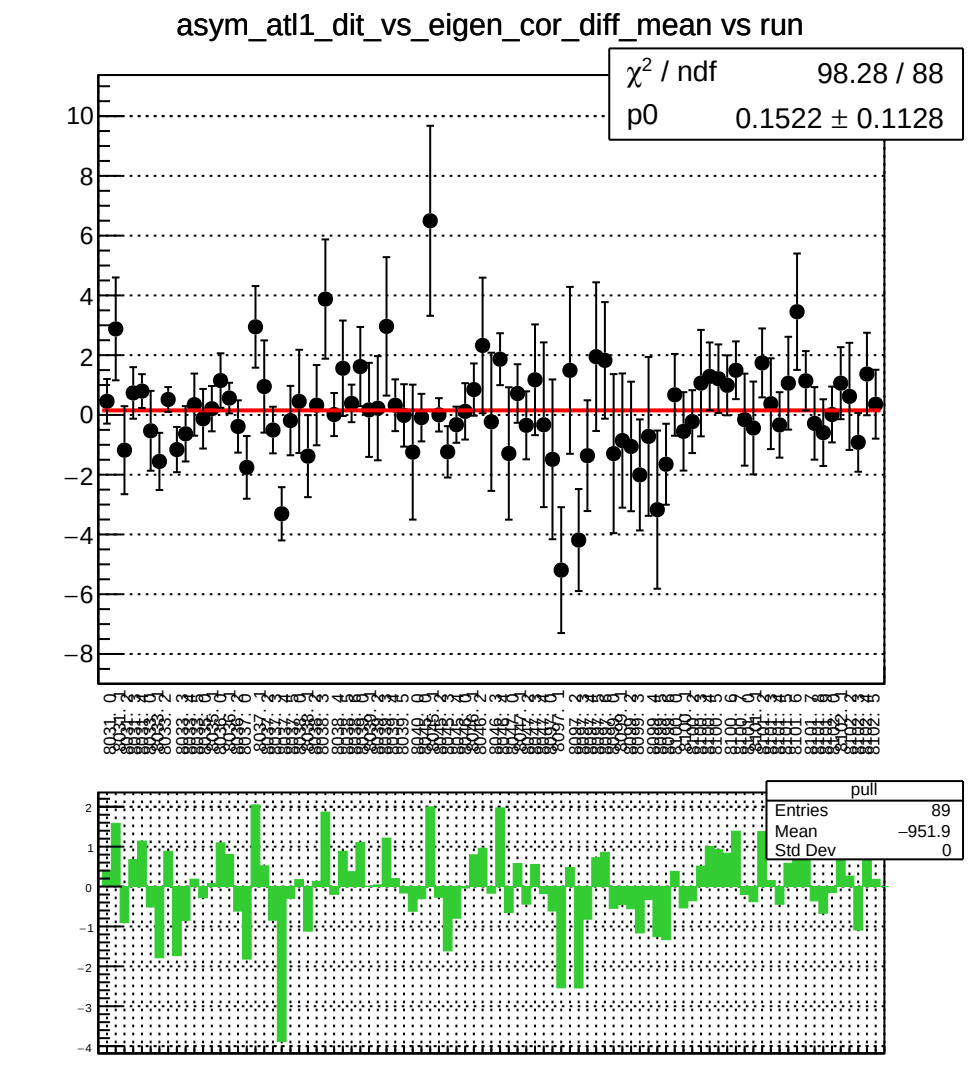

asym_atl1_rms vs run
χ² / ndf 4391 / 88
p0 2547 ± 1.929
2800
2700
2600
2500
2400

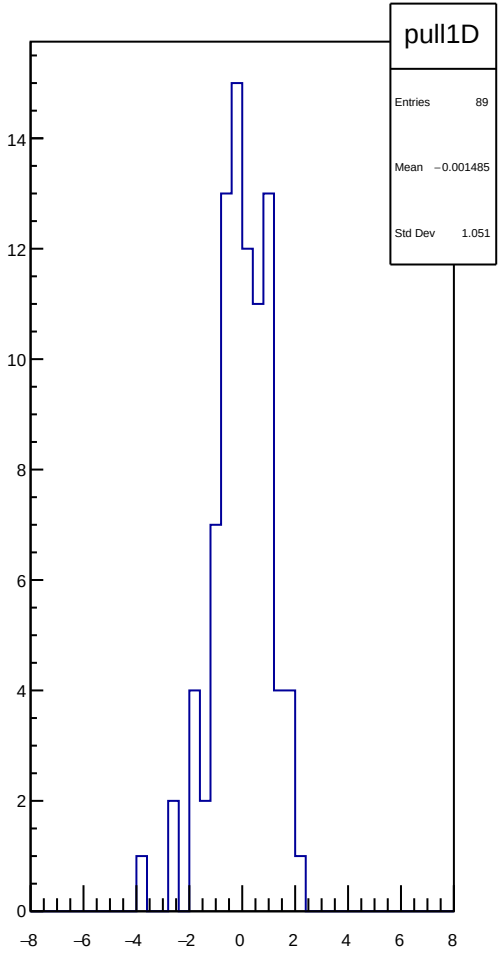

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 105.3 / 88
p0 2.674e−13 ± 1.277e−13
0.08
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 89
Mean 102.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.1195
Std Dev 1.081
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

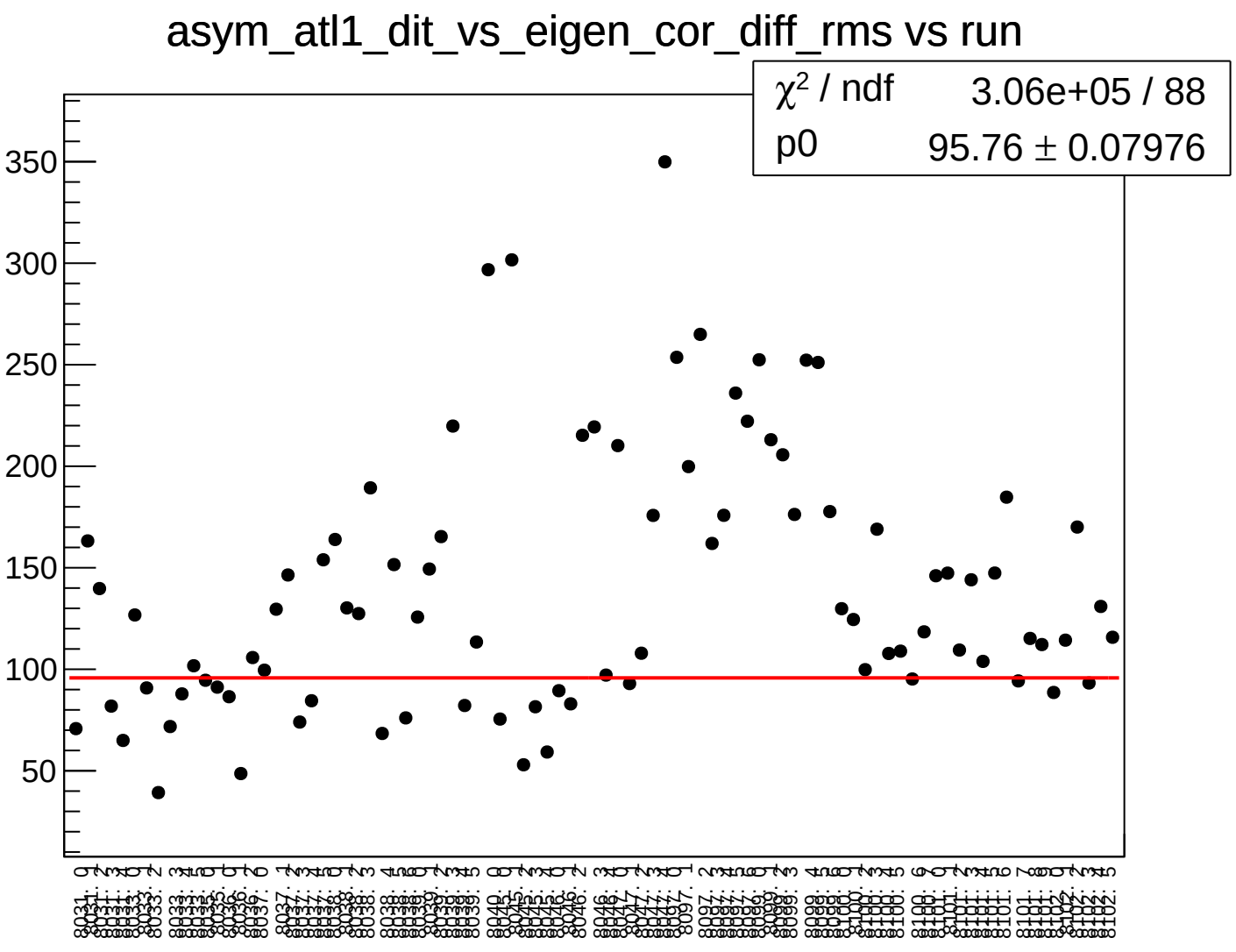

asym_atl1_reg_vs_cor_diff_rms vs run
$\chi^2$ / ndf 1.032e+06 / 88
p0 7.636e−11 ± 9.029e−14
2.5
2
1.5
1
0.5
0

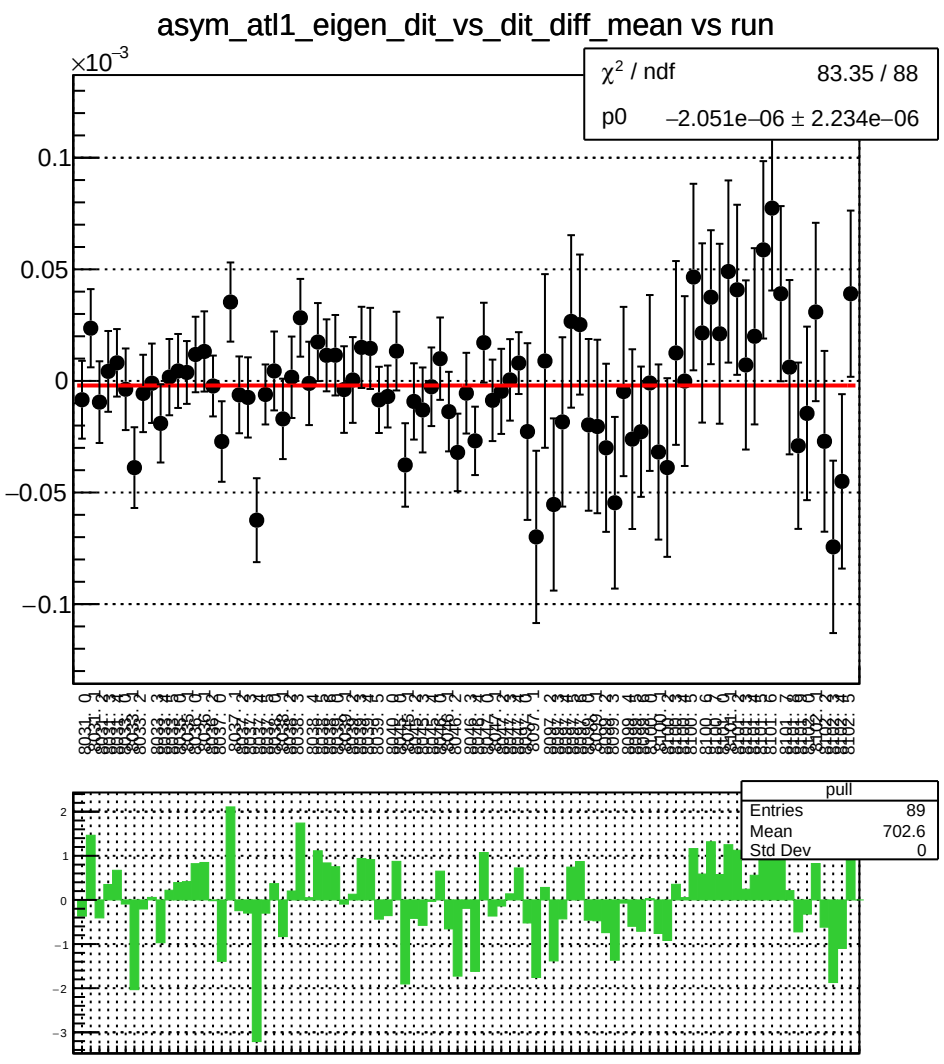

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 98.28 / 88
p0 0.1522 ± 0.1128
pull
Entries 89
Mean −951.9
Std Dev 0
pull1D
Entries 89
Mean −0.001485
Std Dev 1.051

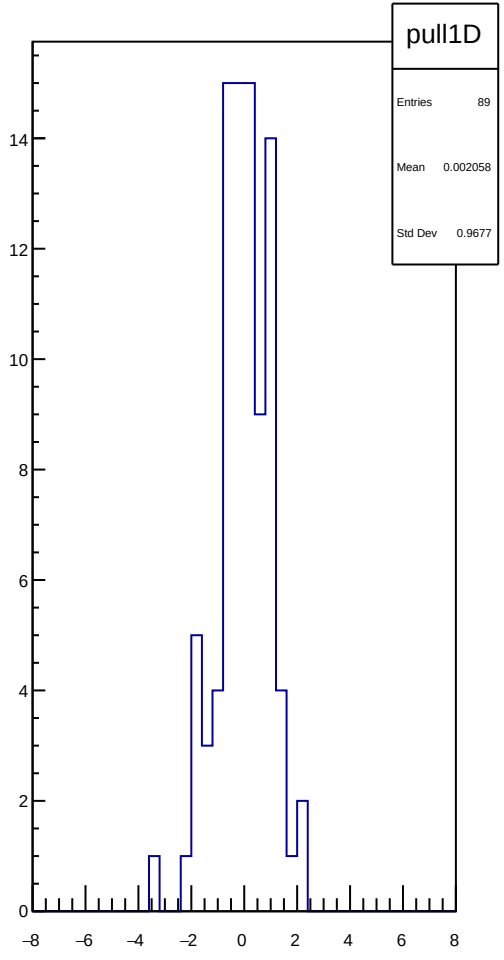

asym_atl1_dit_vs_cor_diff_rms vs run
χ² / ndf 3.06e+05 / 88
p0 95.76 ± 0.07976
350
300
250
200
150
100
50

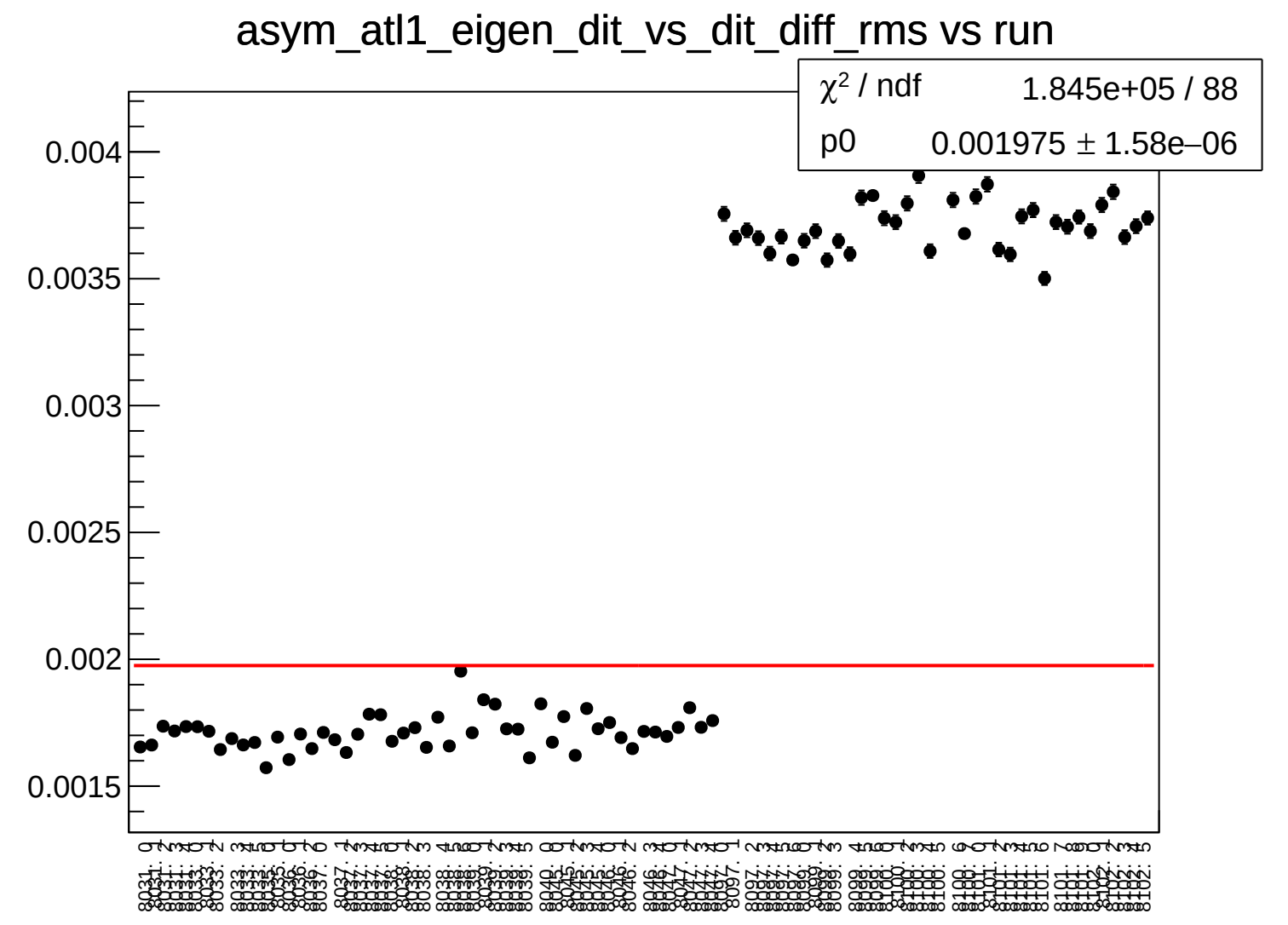

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.28 / 88
p0 0.1522 ± 0.1128
pull
Entries 89
Mean −951.9
Std Dev 0

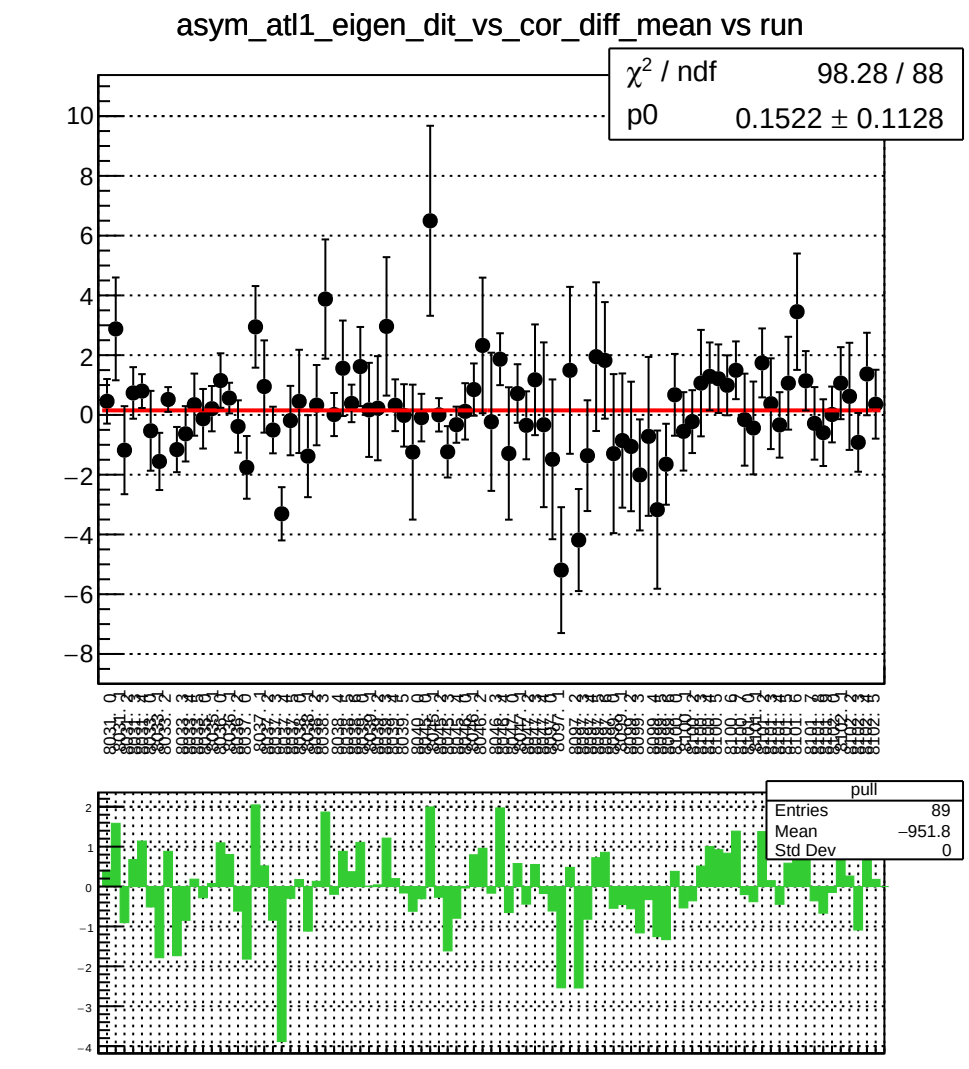

pull1D
Entries 89
Mean −0.001485
Std Dev 1.051

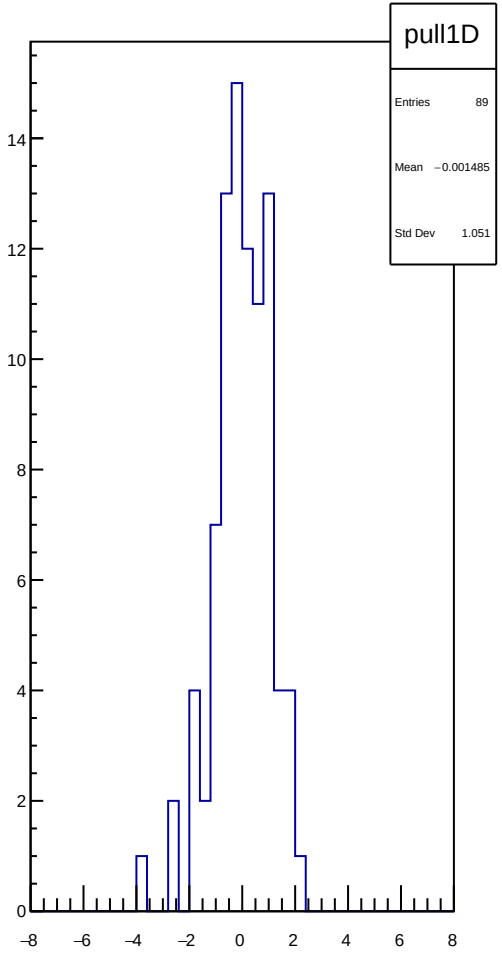

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.06e+05 / 88
p0 95.76 ± 0.07976
350
300
250
200
150
100
50

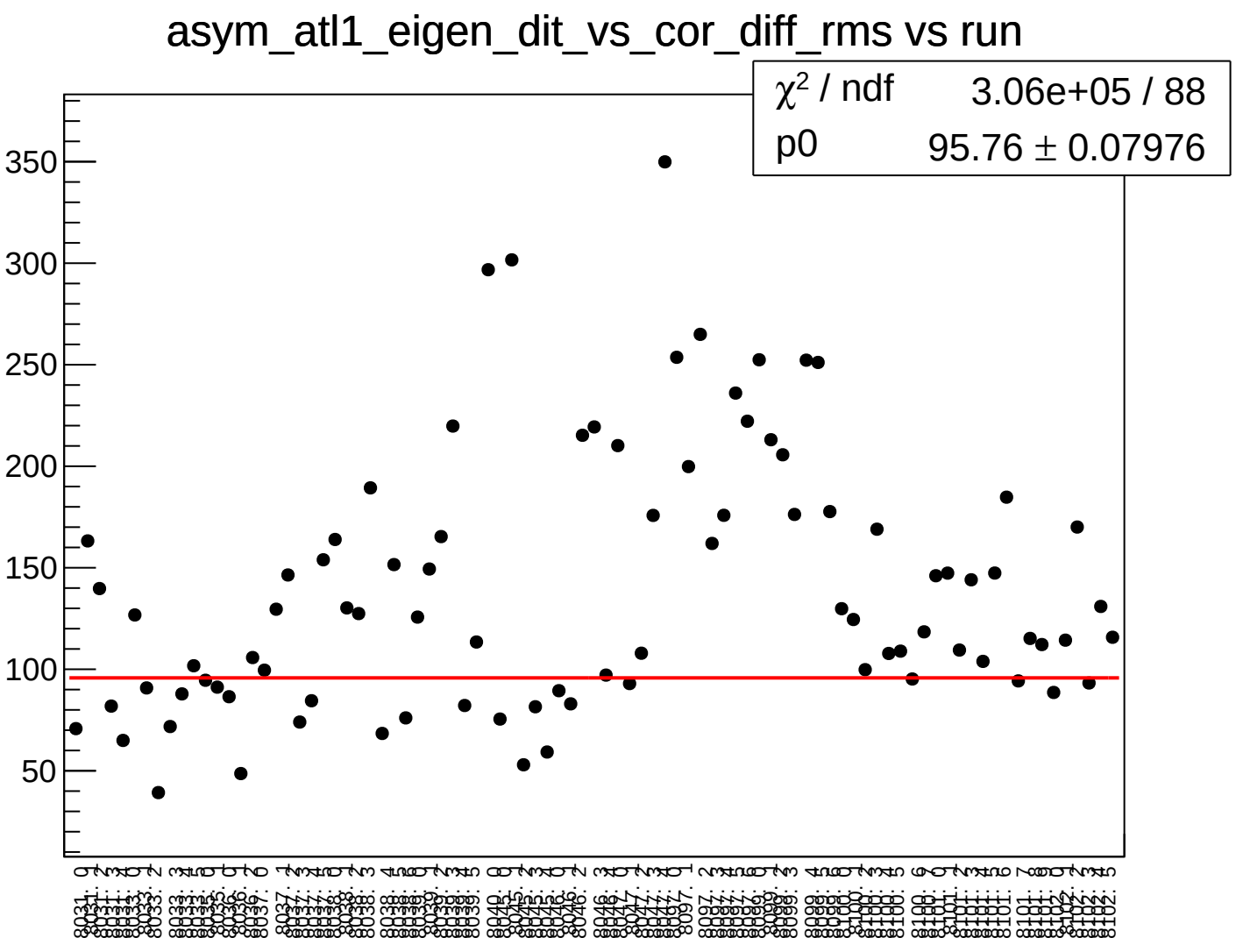

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 83.35 / 88
p0 −2.051e−06 ± 2.234e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 89
Mean 702.6
Std Dev 0
2
1
0
−1
−2
−3

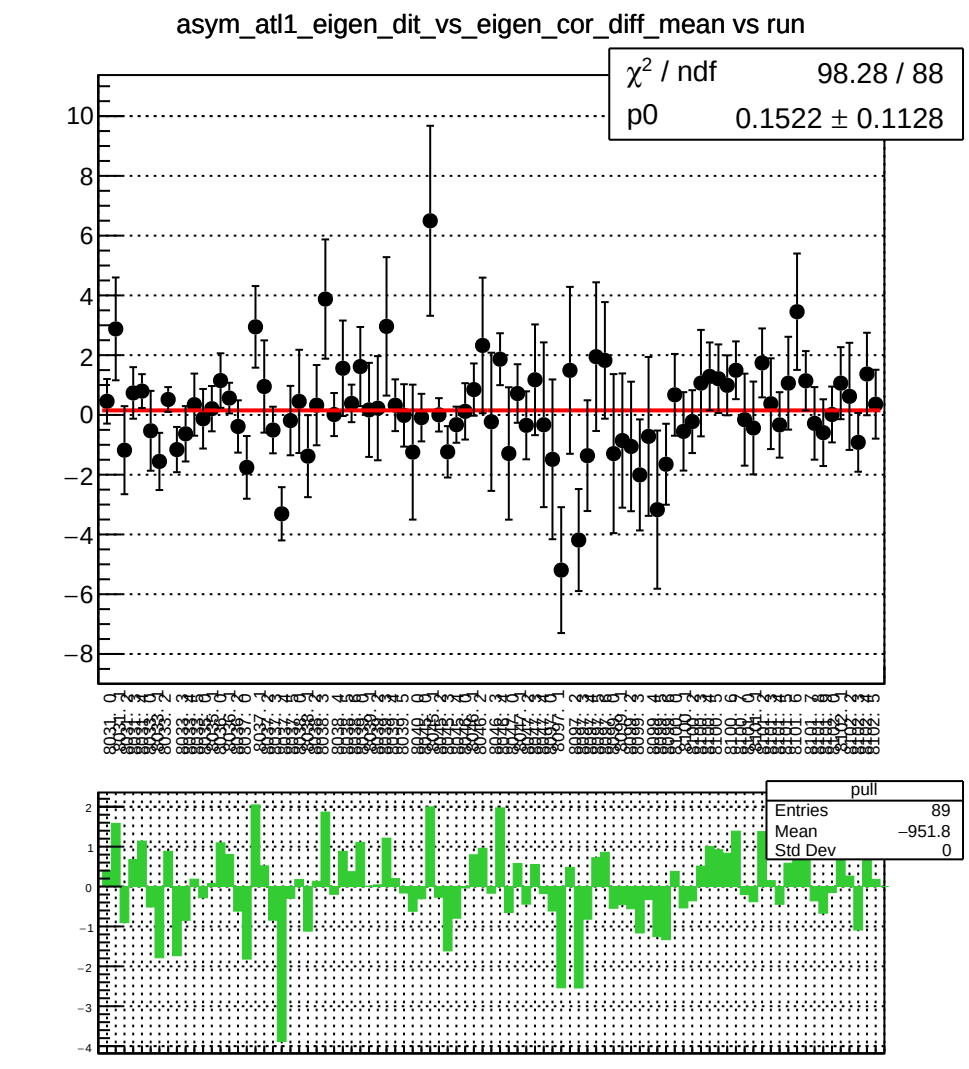

pull1D
Entries 89
Mean 0.002058
Std Dev 0.9677
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

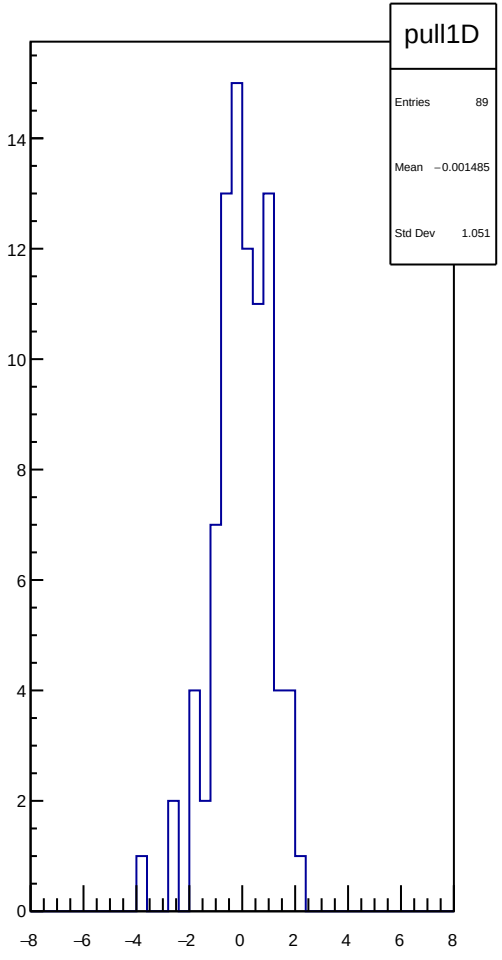

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.845e+05 / 88
p0 0.001975 ± 1.58e−06
0.004
0.0035
0.003
0.0025
0.002
0.0015

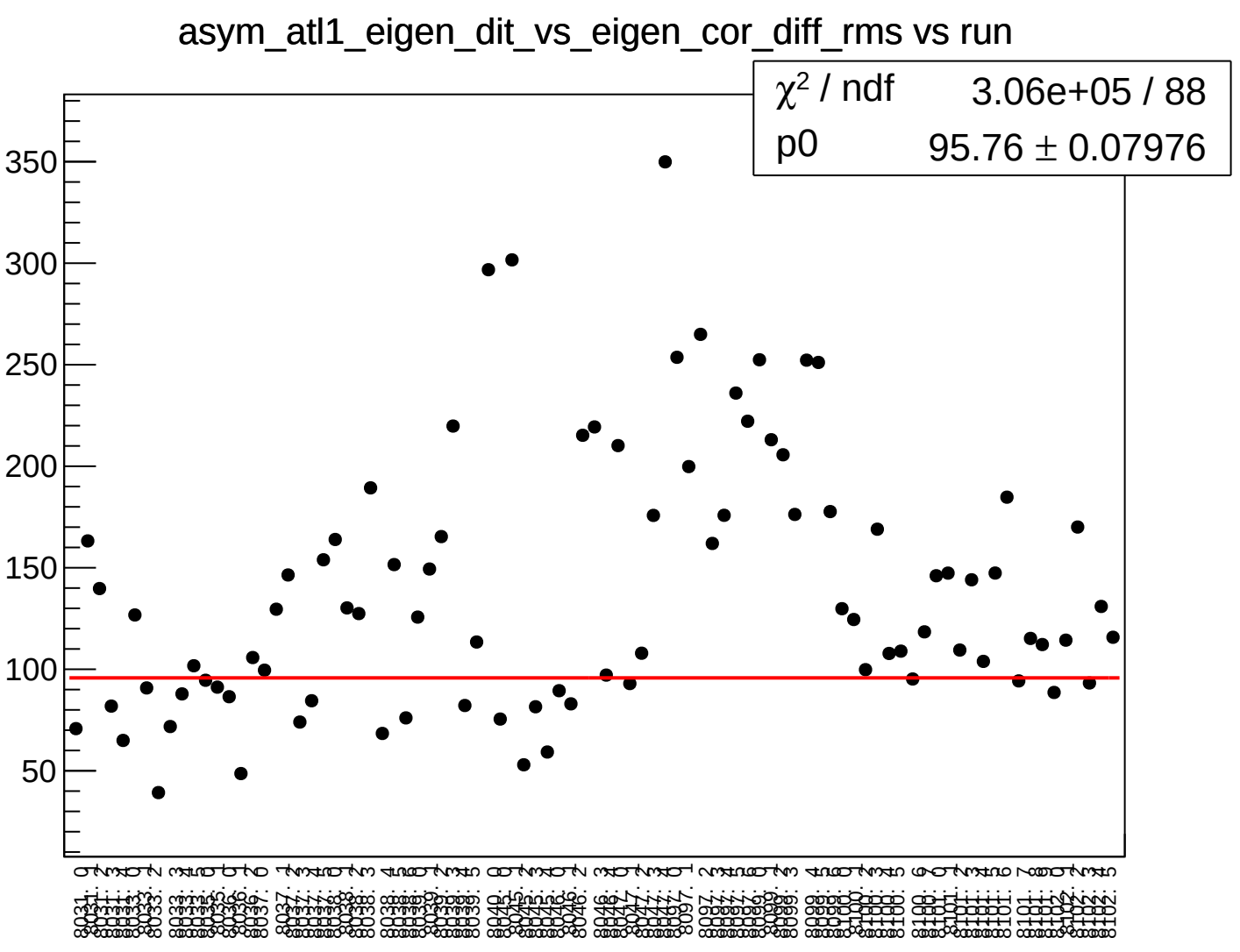

asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.28 / 88
p0 0.1522 ± 0.1128
pull
Entries 89
Mean −951.8
Std Dev 0

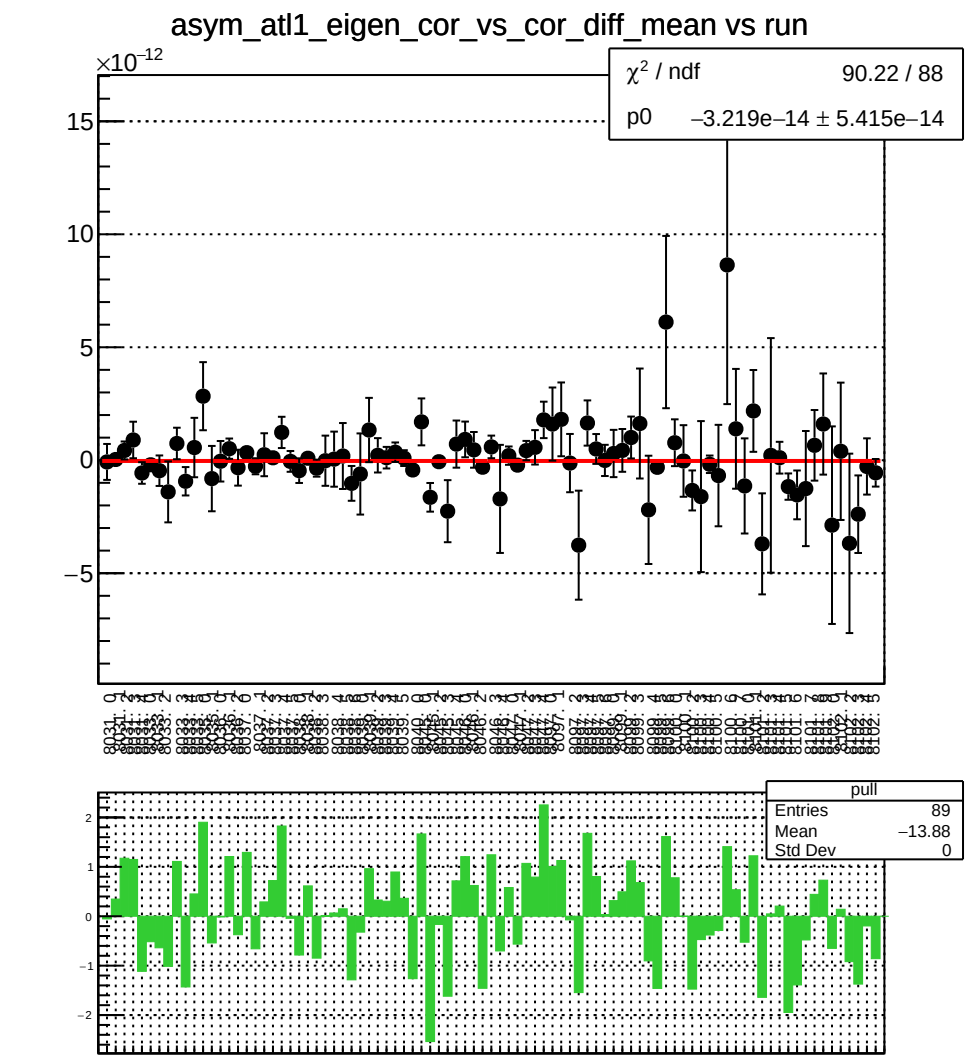

pull1D
Entries 89
Mean −0.001485
Std Dev 1.051

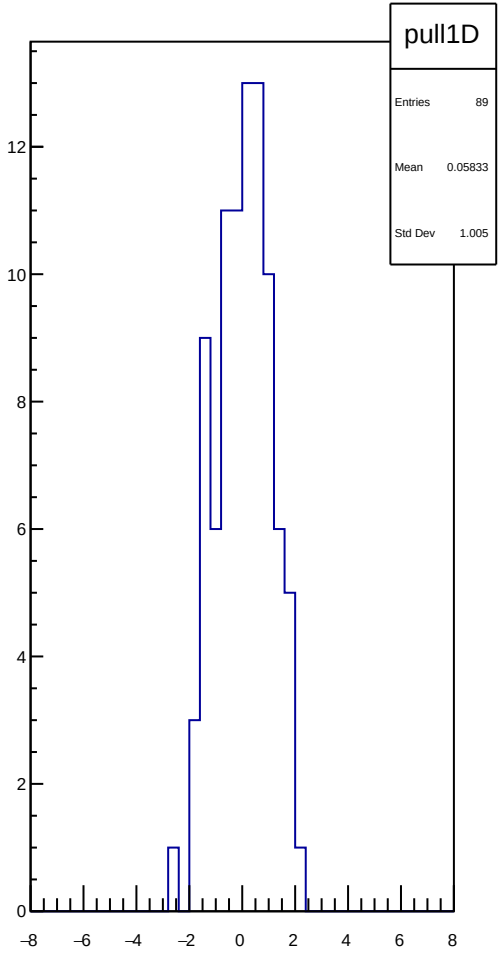

asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.06e+05 / 88
p0 95.76 ± 0.07976
350
300
250
200
150
100
50

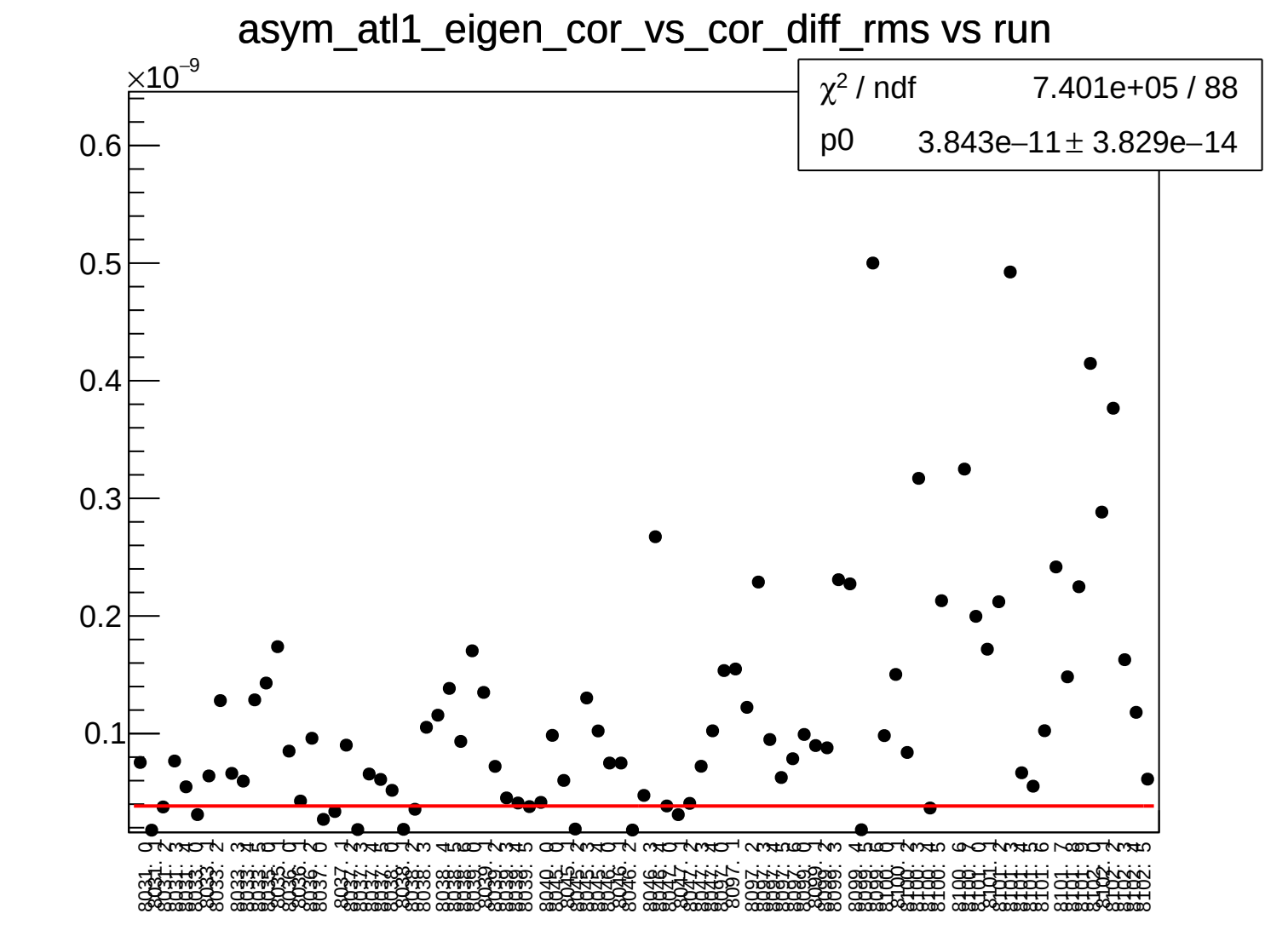

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.28 / 88
p0 0.1522 ± 0.1128
pull
Entries 89
Mean −951.8
Std Dev 0

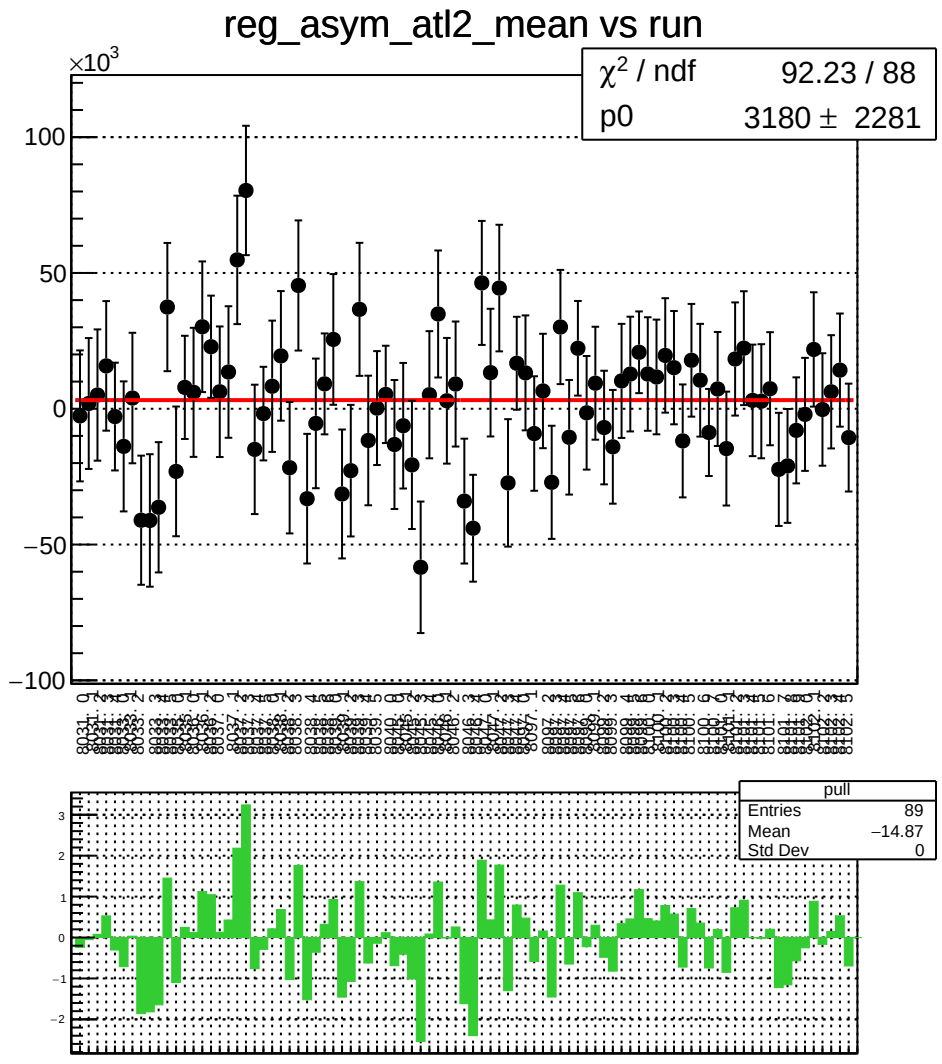

pull1D
Entries 89
Mean −0.001485
Std Dev 1.051

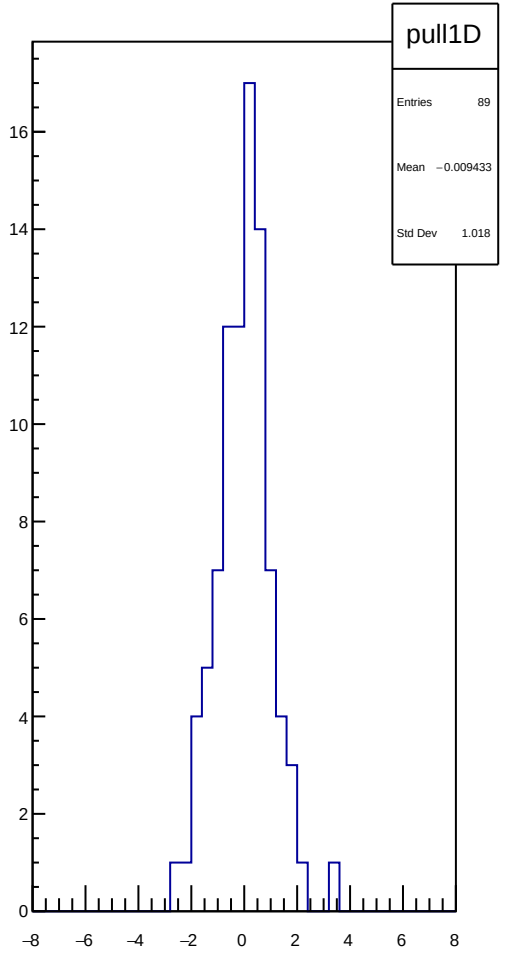

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.06e+05 / 88
p0 95.76 ± 0.07976
350
300
250
200
150
100
50

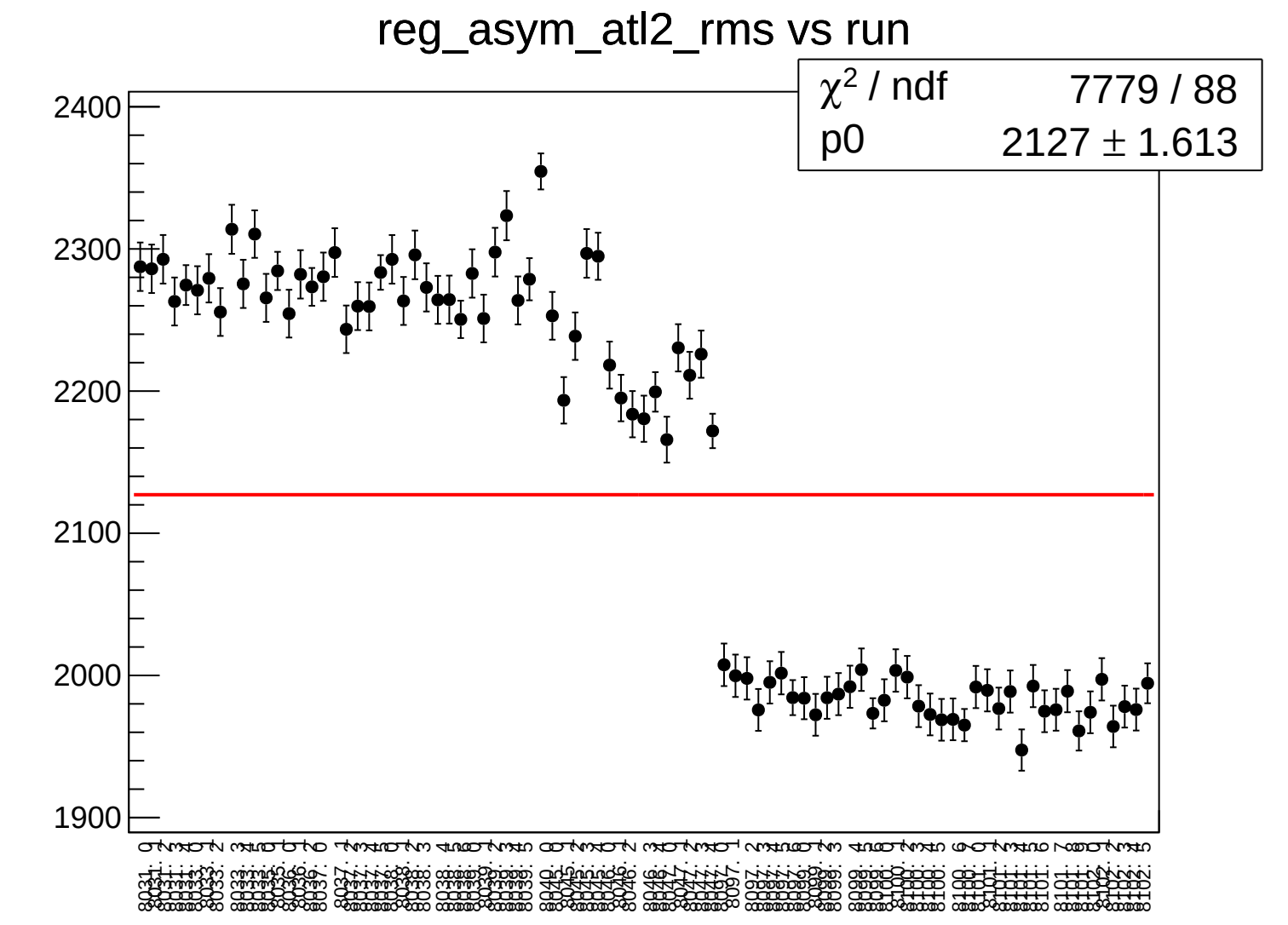

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.22 / 88
p0 −3.219e−14 ± 5.415e−14
15
10
5
0
−5
pull
Entries 89
Mean −13.88
Std Dev 0
2
1
0
−1
−2

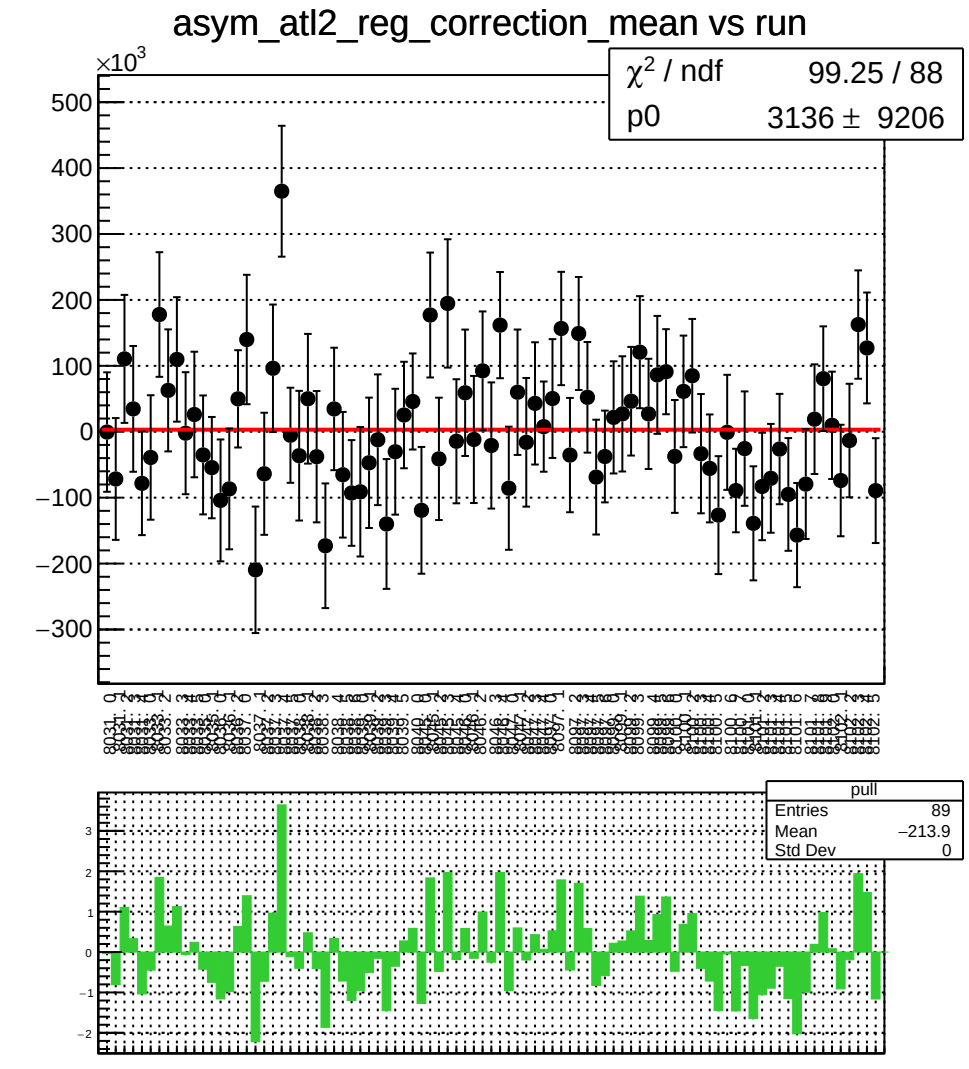

pull1D
Entries 89
Mean 0.05833
Std Dev 1.005
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

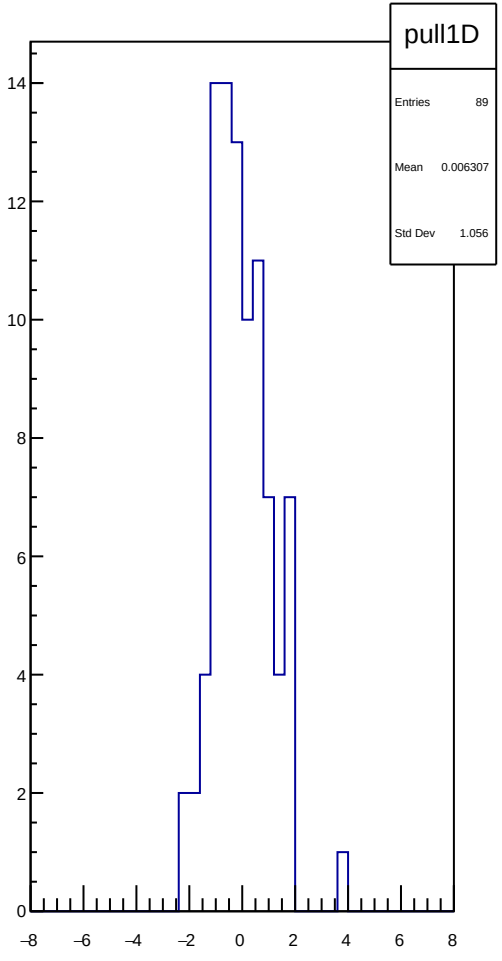

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.401e+05 / 88
p0 3.843e−11 ± 3.829e−14
0.6
0.5
0.4
0.3
0.2
0.1

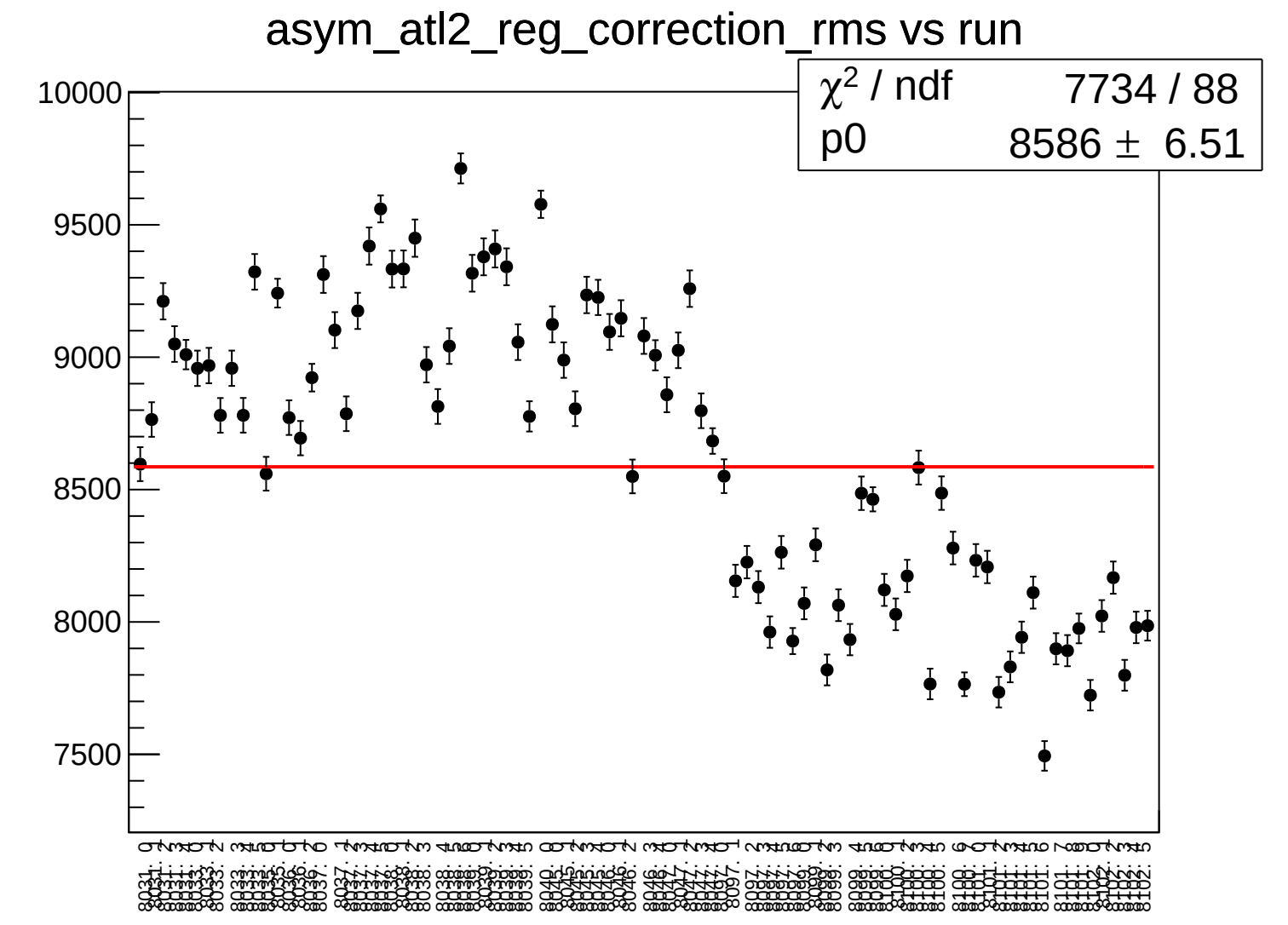

reg_asym_atl2_mean vs run
×10^3
χ^2 / ndf 92.23 / 88
p0 3180 ± 2281
100
50
0
−50
−100
pull
Entries 89
Mean −14.87
Std Dev 0
3
2
1
0
−1
−2

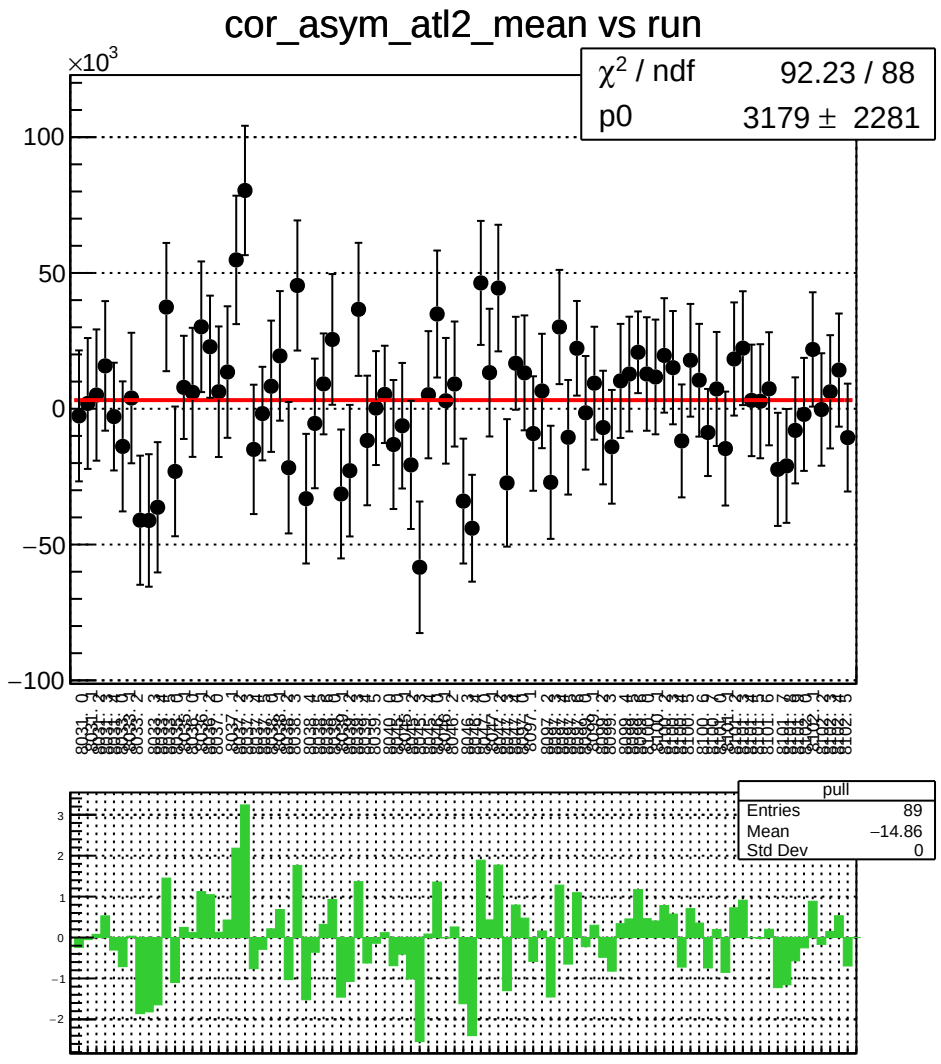

pull1D
Entries 89
Mean −0.009433
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

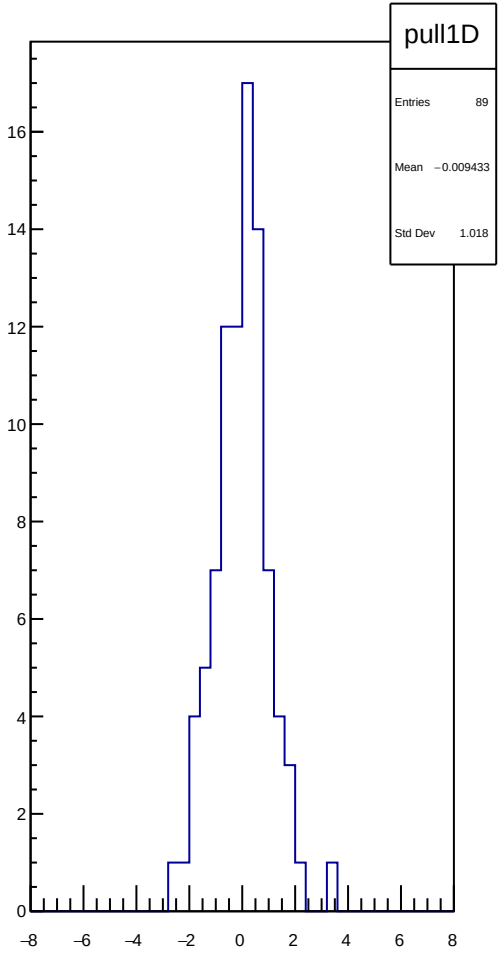

reg_asym_atl2_rms vs run
$\chi^2$ / ndf 7779 / 88
p0 2127 ± 1.613
2400
2300
2200
2100
2000
1900

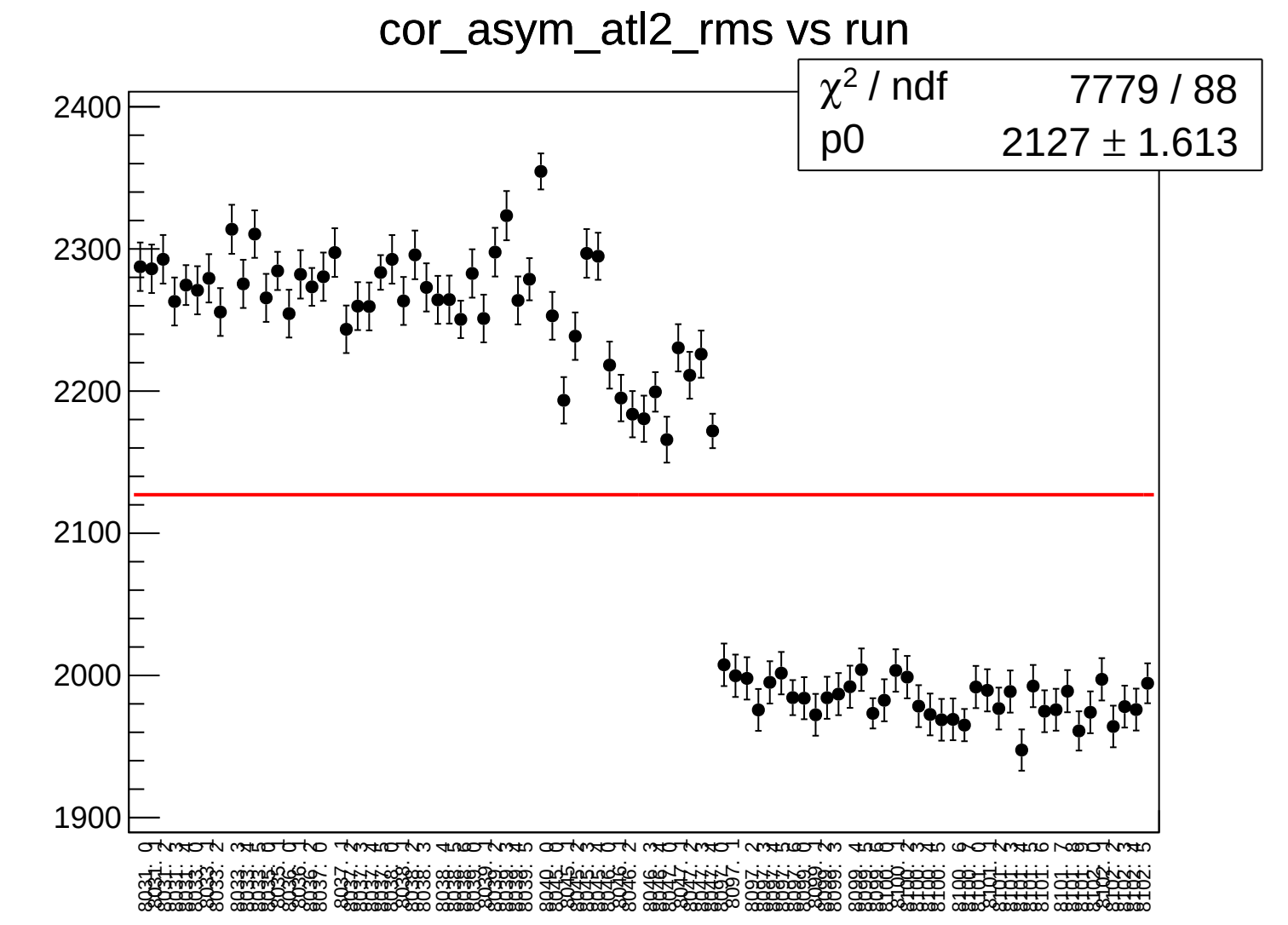

asym_atl2_reg_correction_mean vs run
×10^3
χ² / ndf 99.25 / 88
p0 3136 ± 9206
pull
Entries 89
Mean −213.9
Std Dev 0

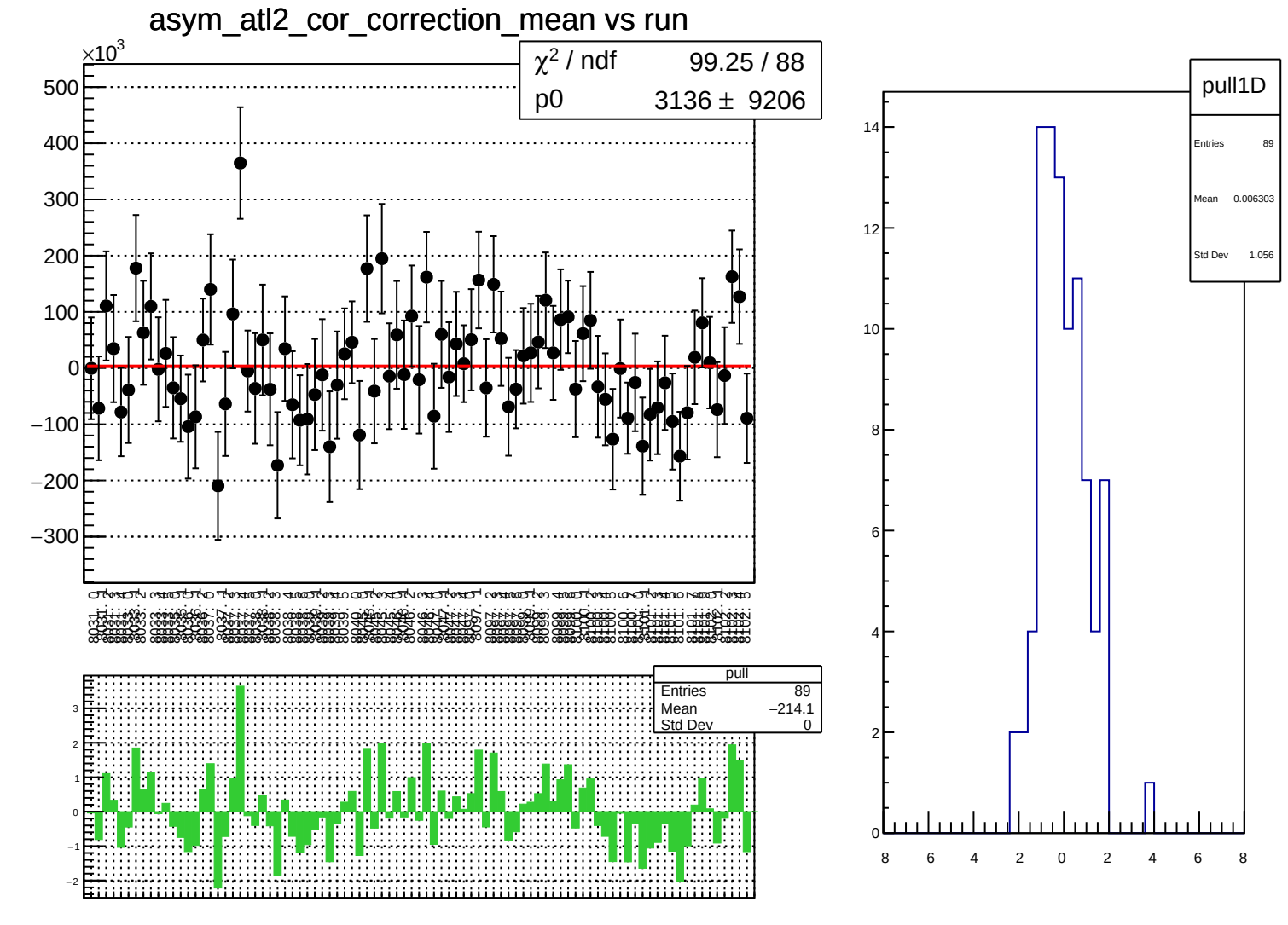

pull1D
Entries 89
Mean 0.006307
Std Dev 1.056

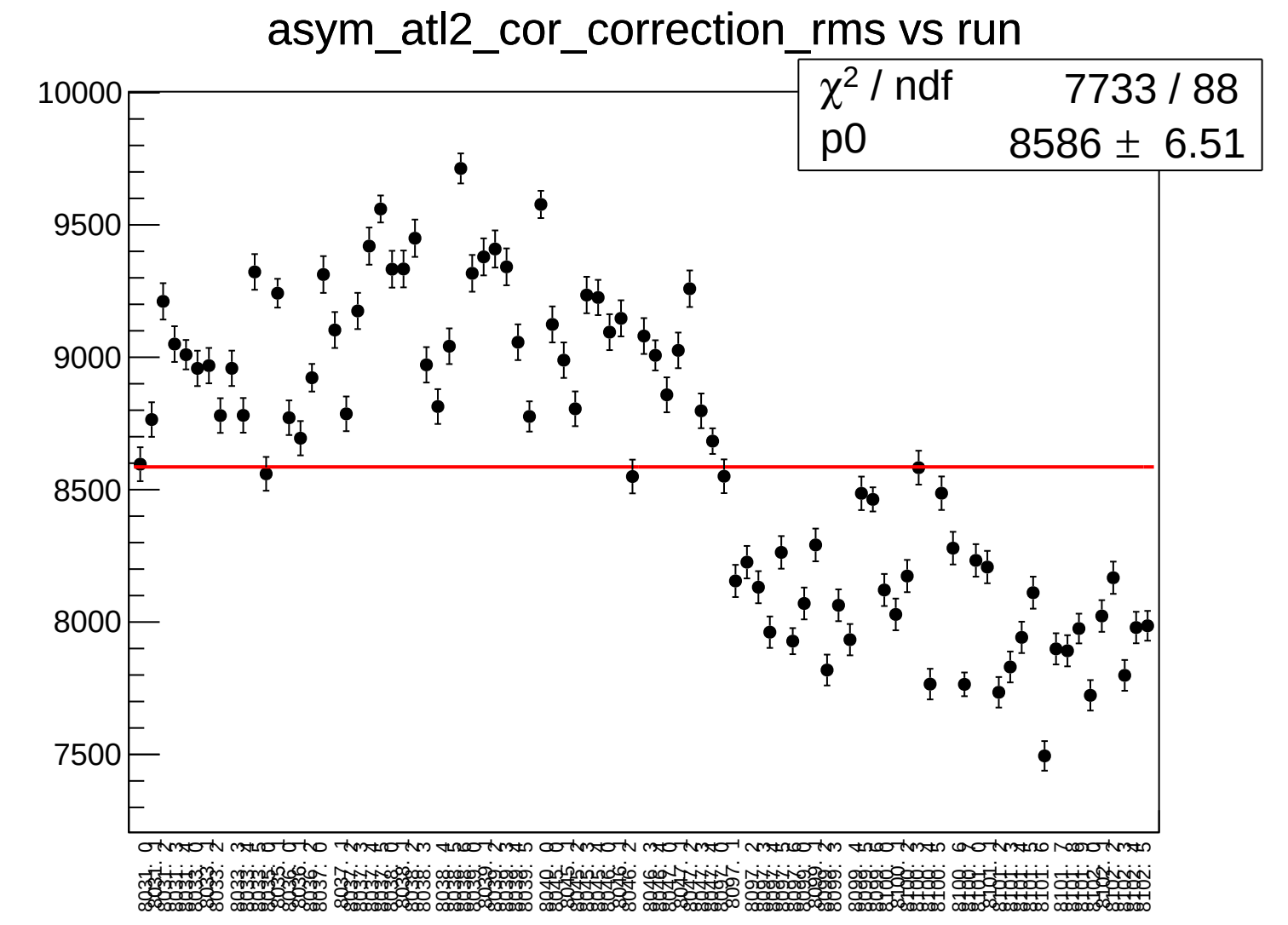

asym_atl2_reg_correction_rms vs run
χ² / ndf 7734 / 88
p0 8586 ± 6.51
10000
9500
9000
8500
8000
7500

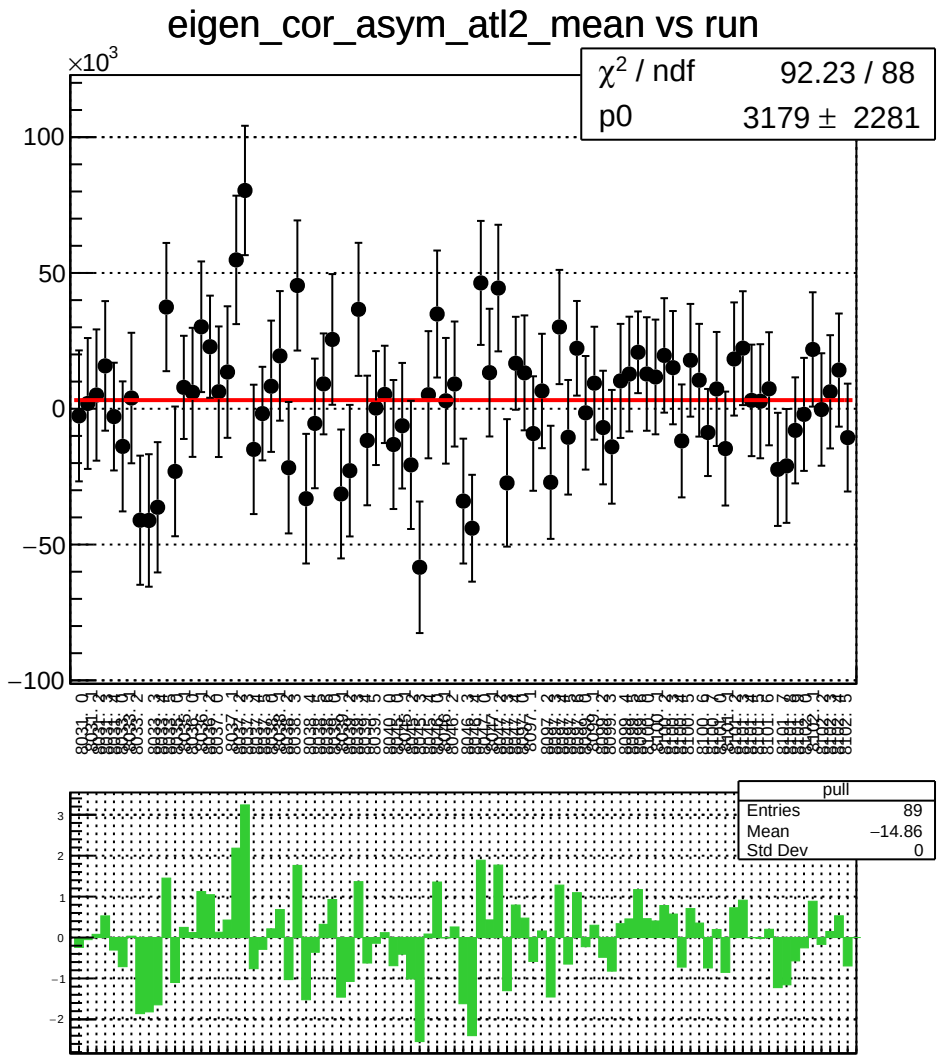

cor_asym_atl2_mean vs run
×10^3
χ^2 / ndf 92.23 / 88
p0 3179 ± 2281
100
50
0
−50
−100
pull
Entries 89
Mean −14.86
Std Dev 0
3
2
1
0
−1
−2

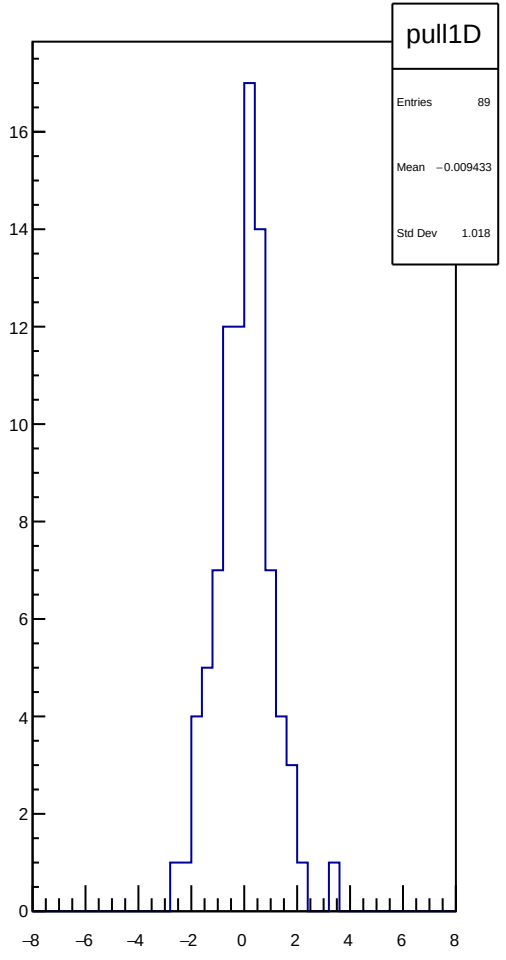

pull1D
Entries 89
Mean −0.009433
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

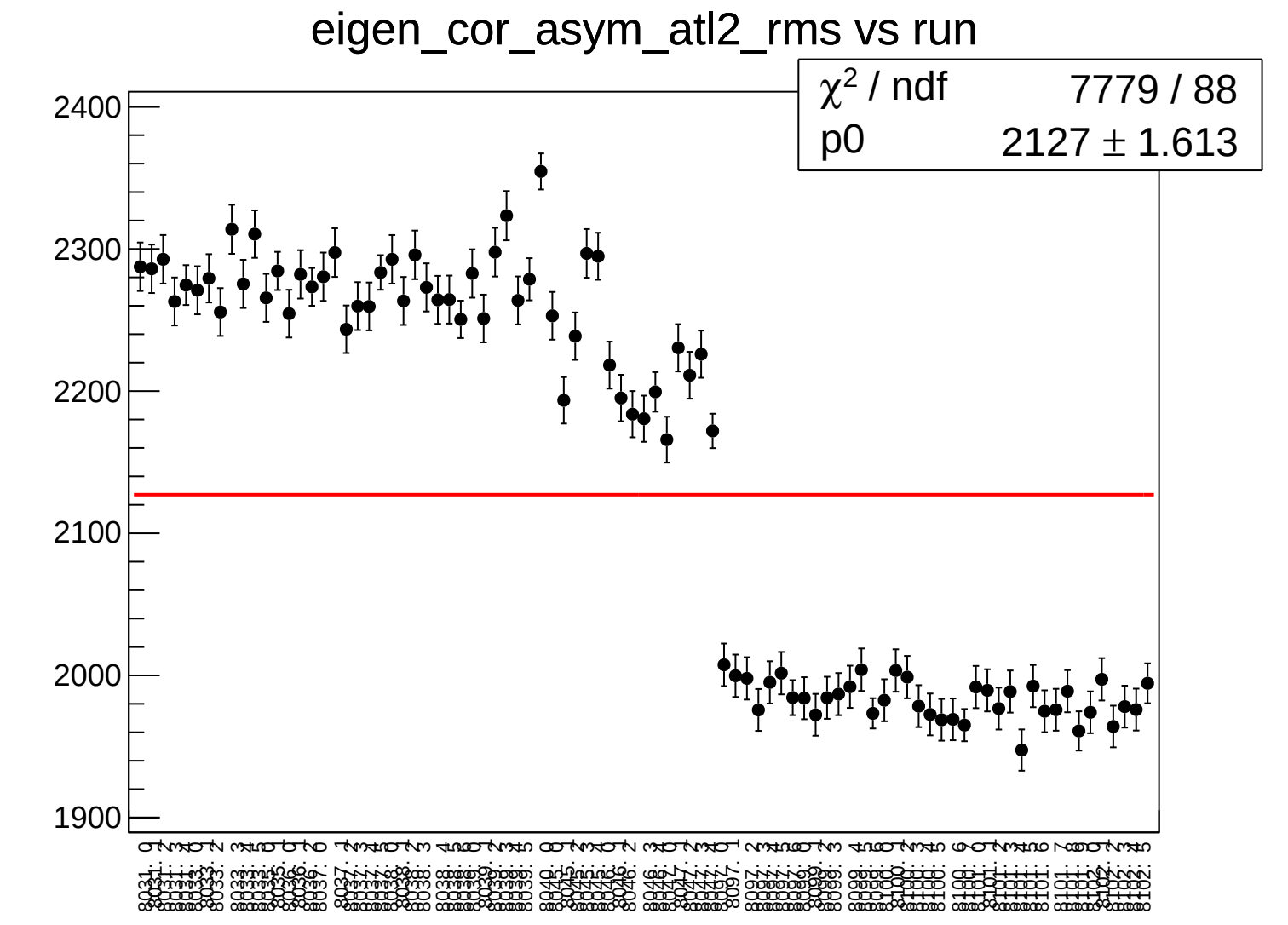

cor_asym_atl2_rms vs run
χ² / ndf 7779 / 88
p0 2127 ± 1.613
2400
2300
2200
2100
2000
1900

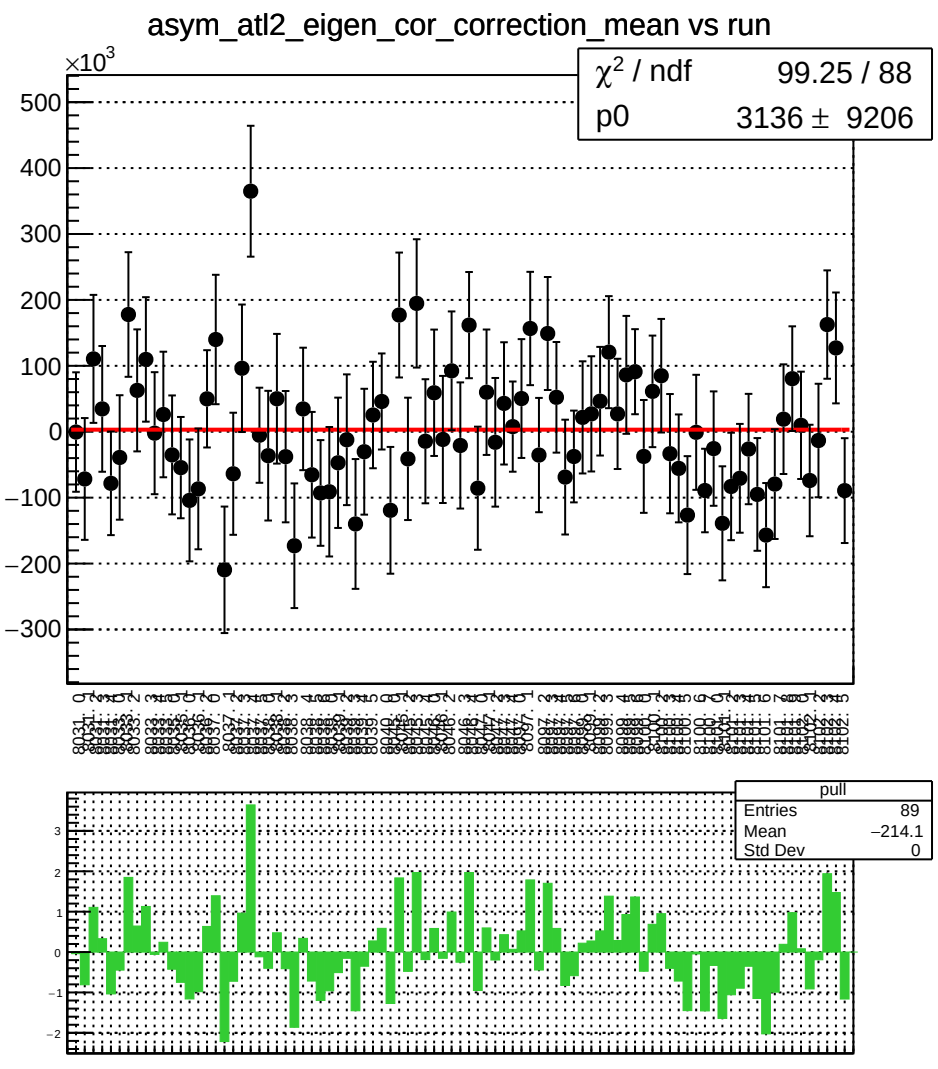

asym_atl2_cor_correction_mean vs run
×10^3
χ^2 / ndf 99.25 / 88
p0 3136 ± 9206
pull
Entries 89
Mean −214.1
Std Dev 0
pull1D
Entries 89
Mean 0.006303
Std Dev 1.056

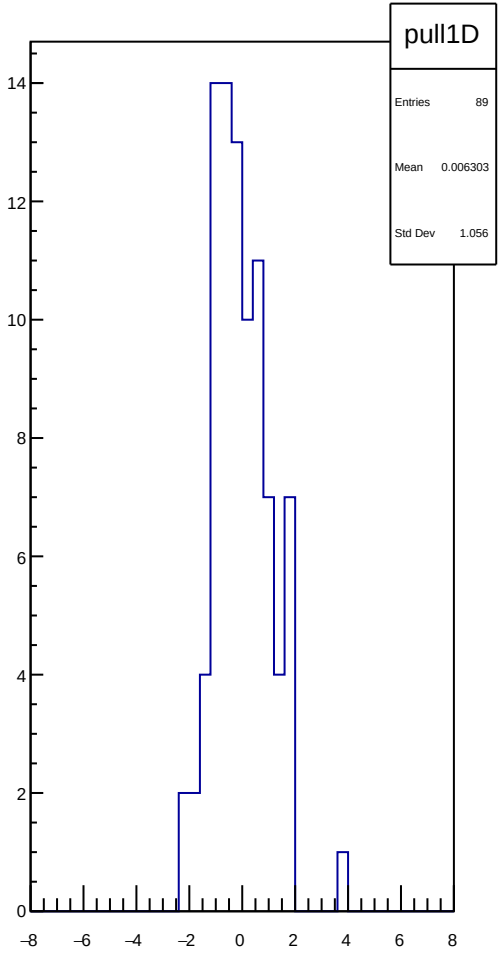

asym_atl2_cor_correction_rms vs run
χ² / ndf 7733 / 88
p0 8586 ± 6.51
10000
9500
9000
8500
8000
7500

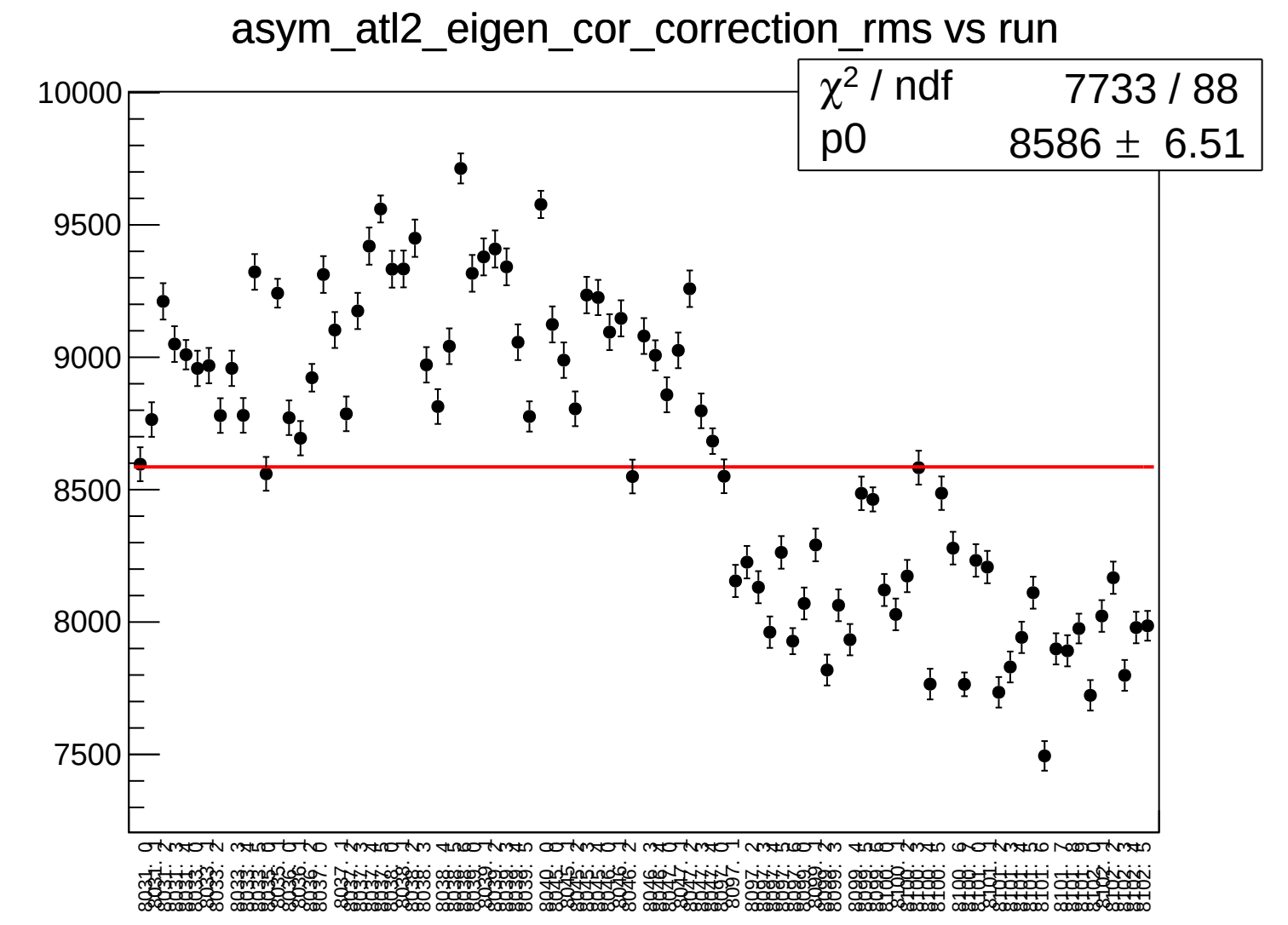

eigen_cor_asym_atl2_mean vs run
×10^3
χ^2 / ndf 92.23 / 88
p0 3179 ± 2281
100
50
0
−50
−100
pull
Entries 89
Mean −14.86
Std Dev 0
3
2
1
0
−1
−2

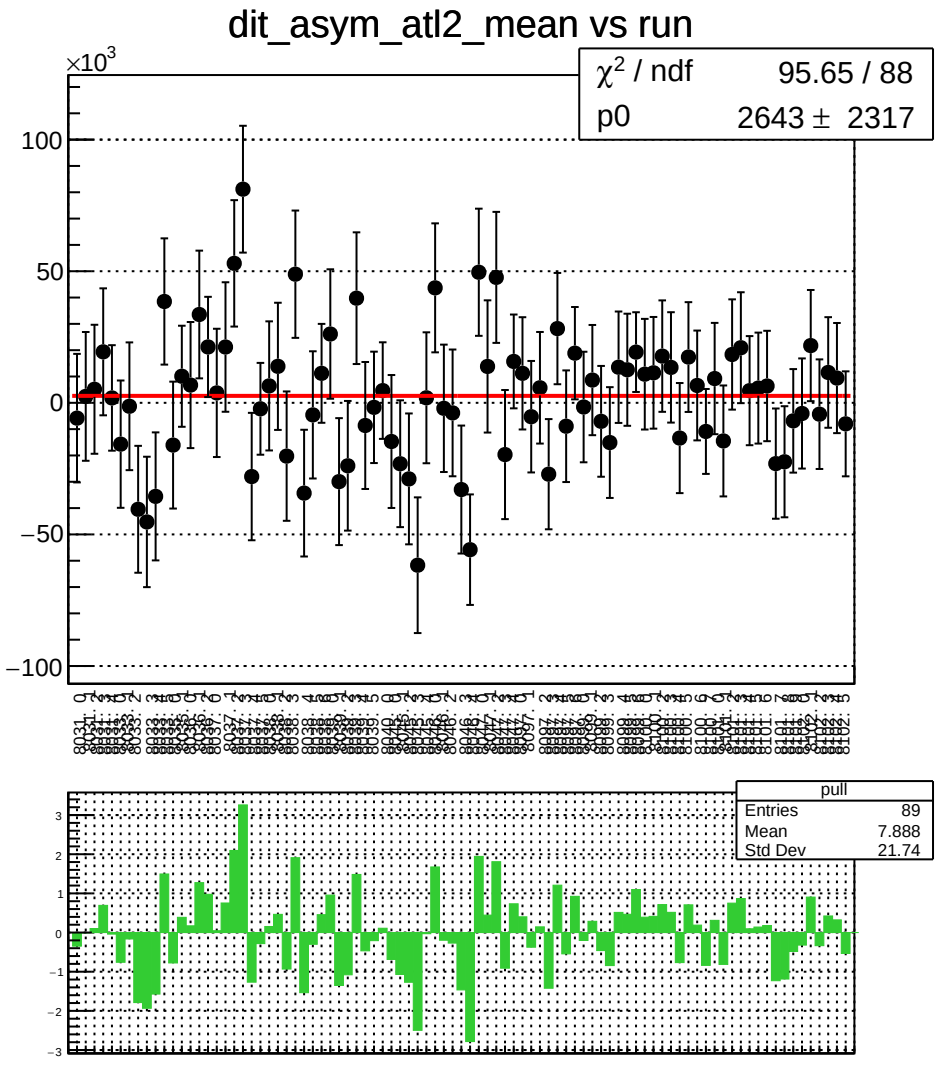

pull1D
Entries 89
Mean −0.009433
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

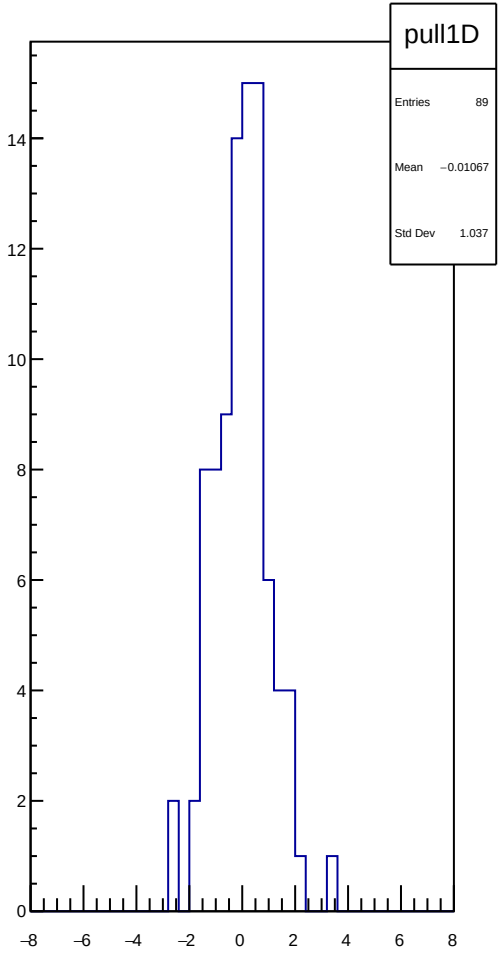

eigen_cor_asym_atl2_rms vs run
χ² / ndf 7779 / 88
p0 2127 ± 1.613
2400
2300
2200
2100
2000
1900

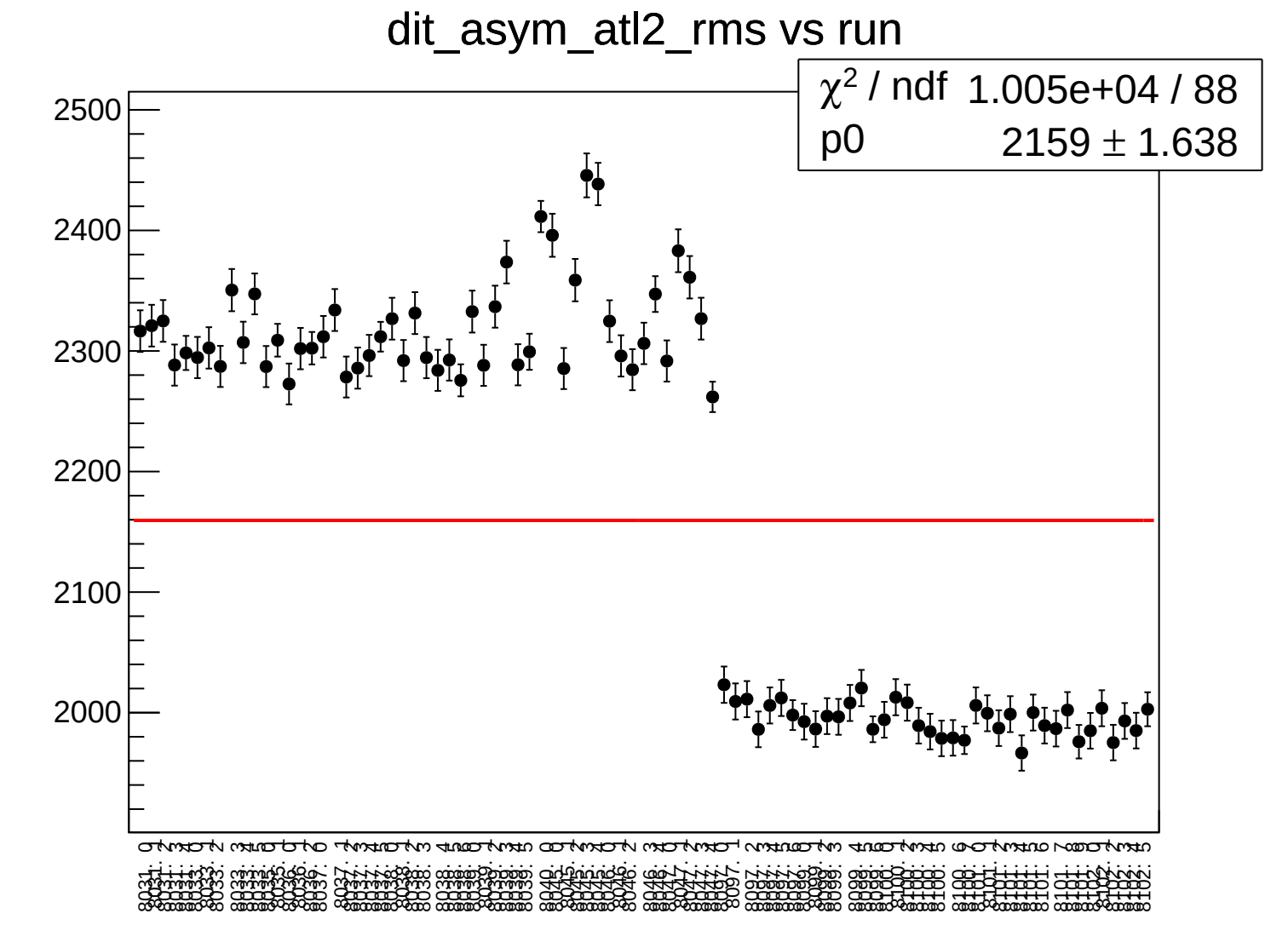

asym_atl2_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 99.25 / 88
p0 3136 ± 9206
pull
Entries 89
Mean −214.1
Std Dev 0

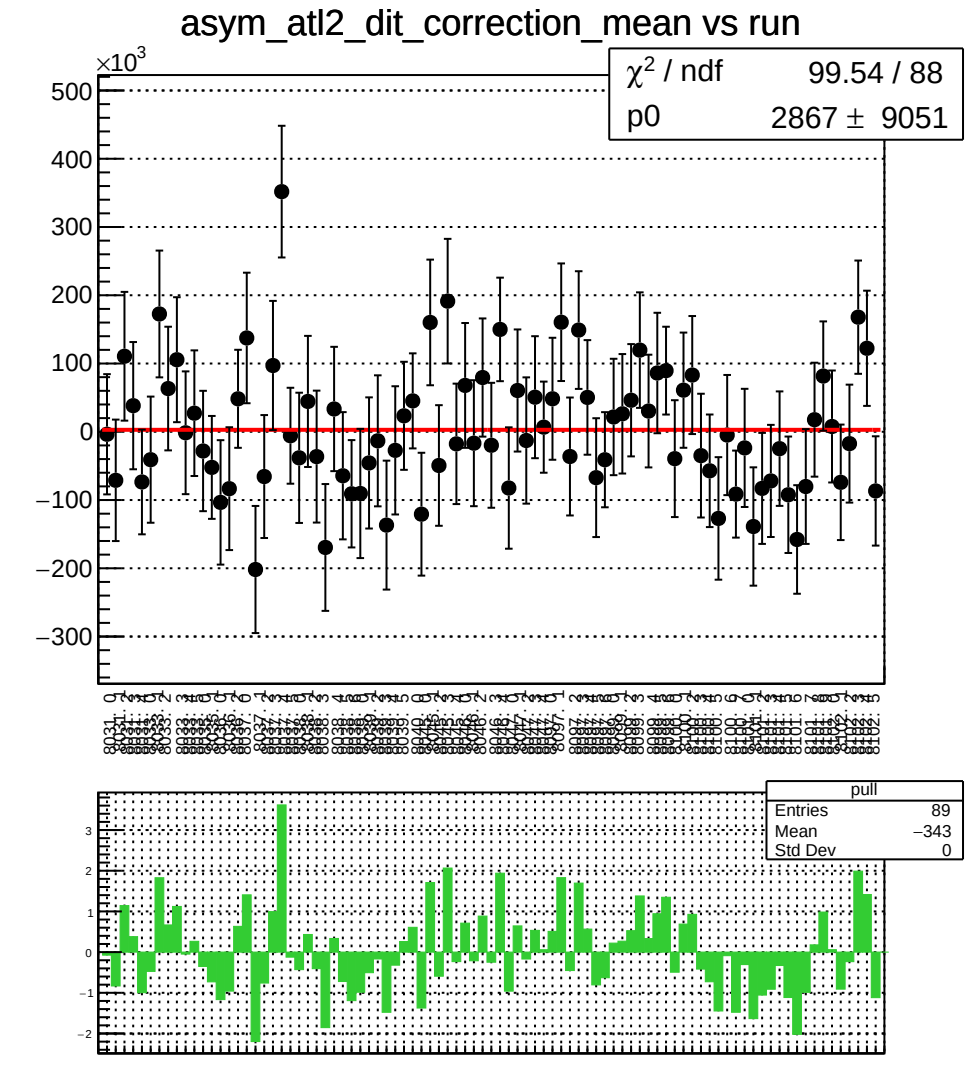

pull1D
Entries 89
Mean 0.006303
Std Dev 1.056

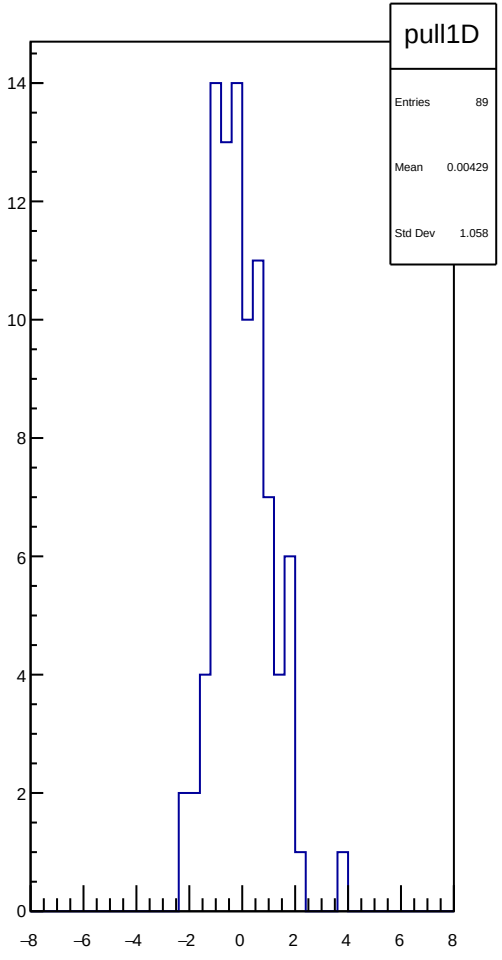

asym_atl2_eigen_cor_correction_rms vs run
χ² / ndf 7733 / 88
p0 8586 ± 6.51
10000
9500
9000
8500
8000
7500

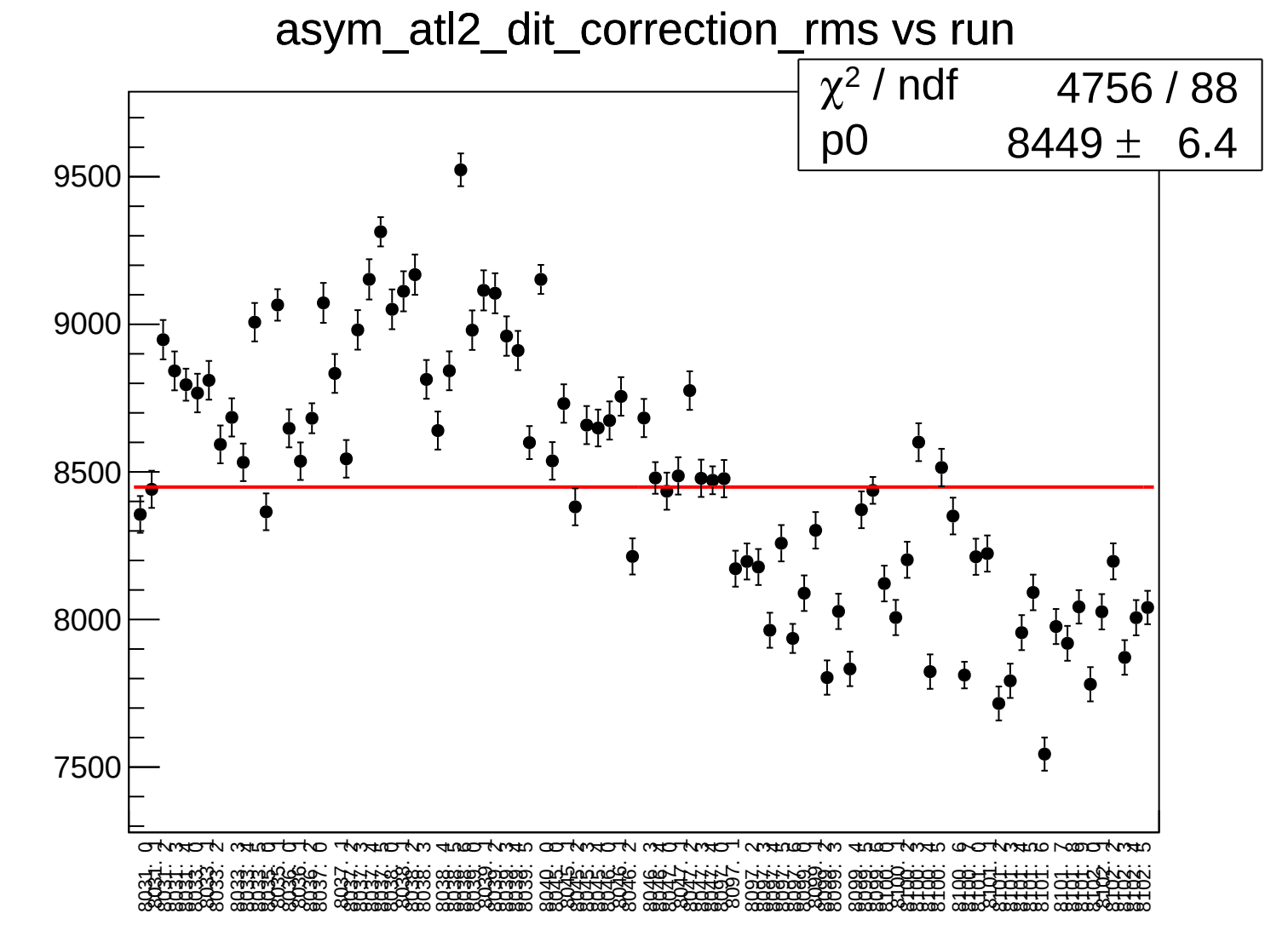

dit_asym_atl2_mean vs run
×10^3
χ^2 / ndf 95.65 / 88
p0 2643 ± 2317
100
50
0
−50
−100
pull
Entries 89
Mean 7.888
Std Dev 21.74
3
2
1
0
−1
−2
−3

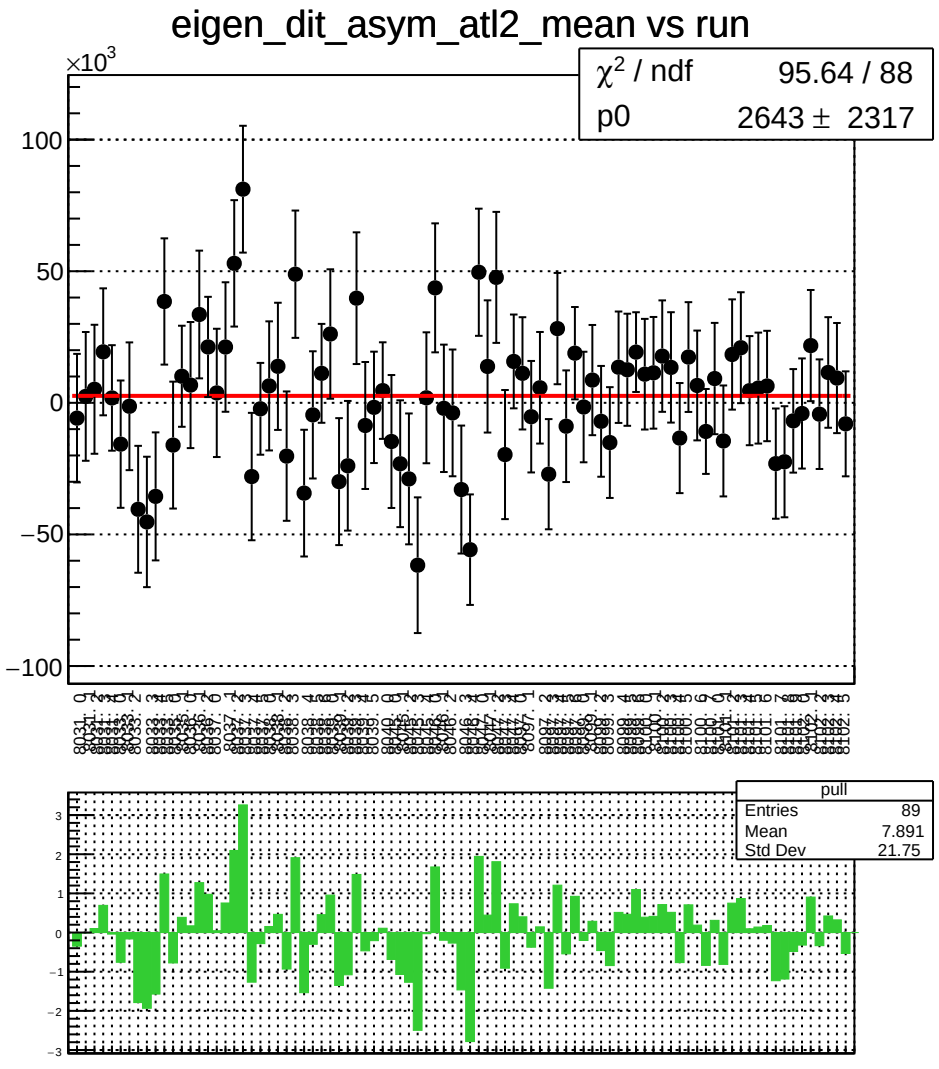

pull1D
Entries 89
Mean −0.01067
Std Dev 1.037
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

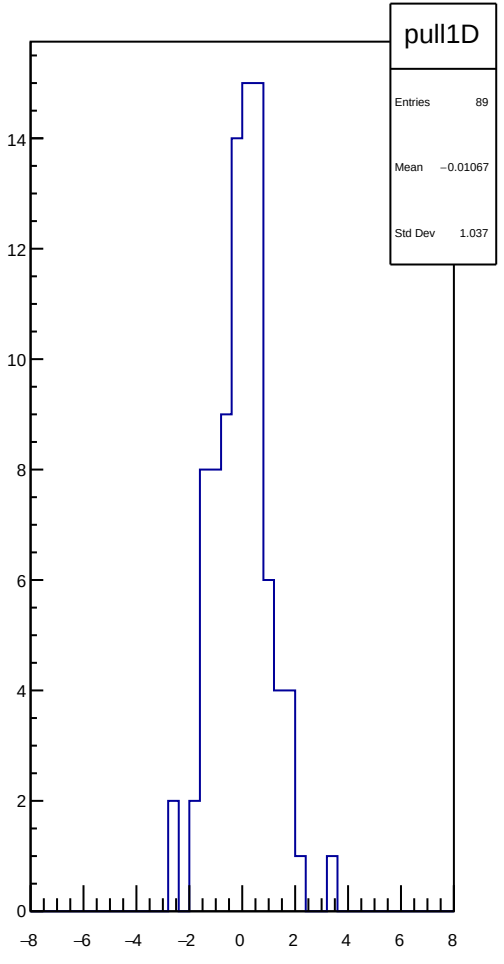

dit_asym_atl2_rms vs run
χ² / ndf 1.005e+04 / 88
p0 2159 ± 1.638
2500
2400
2300
2200
2100
2000

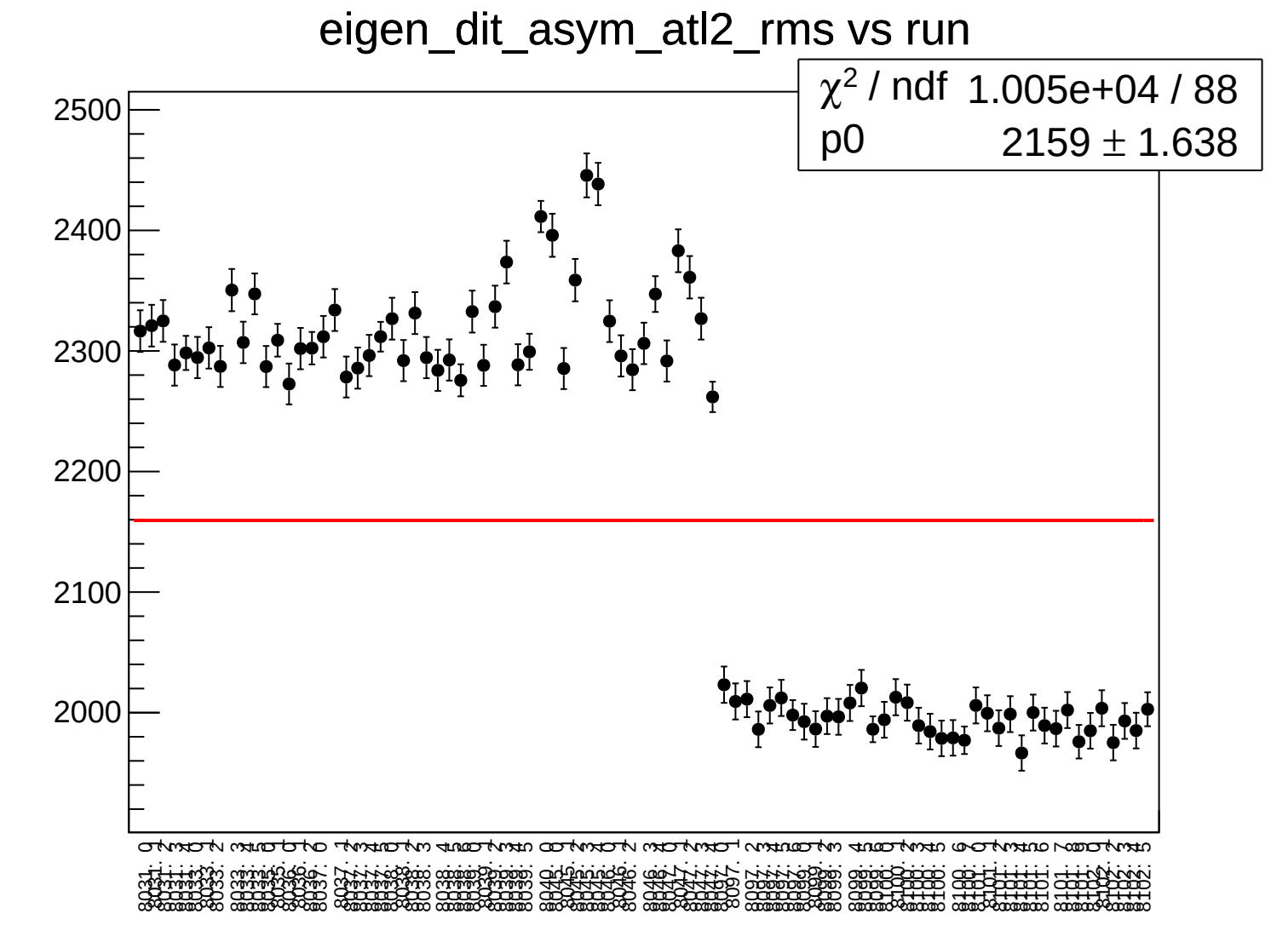

asym_atl2_dit_correction_mean vs run
×10^3
χ^2 / ndf 99.54 / 88
p0 2867 ± 9051
pull
Entries 89
Mean −343
Std Dev 0

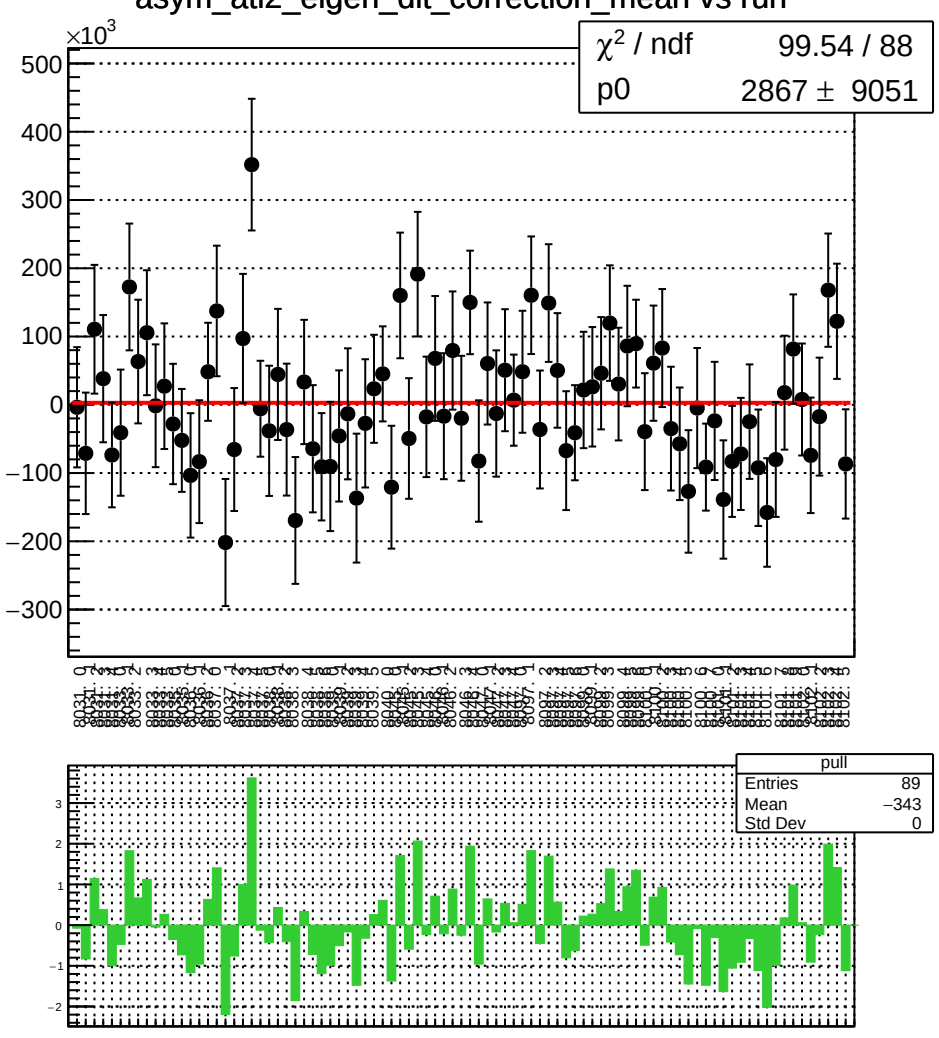

pull1D
Entries 89
Mean 0.00429
Std Dev 1.058

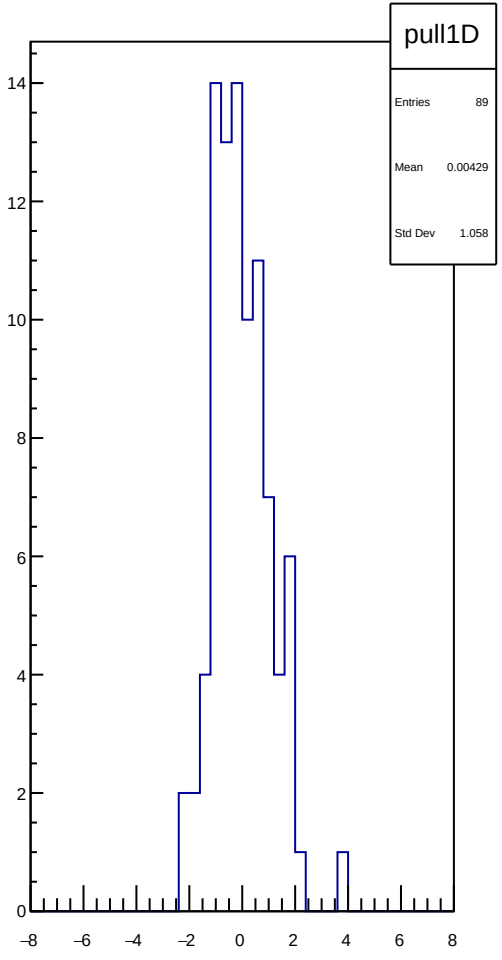

asym_atl2_dit_correction_rms vs run
χ² / ndf 4756 / 88
p0 8449 ± 6.4
9500
9000
8500
8000
7500

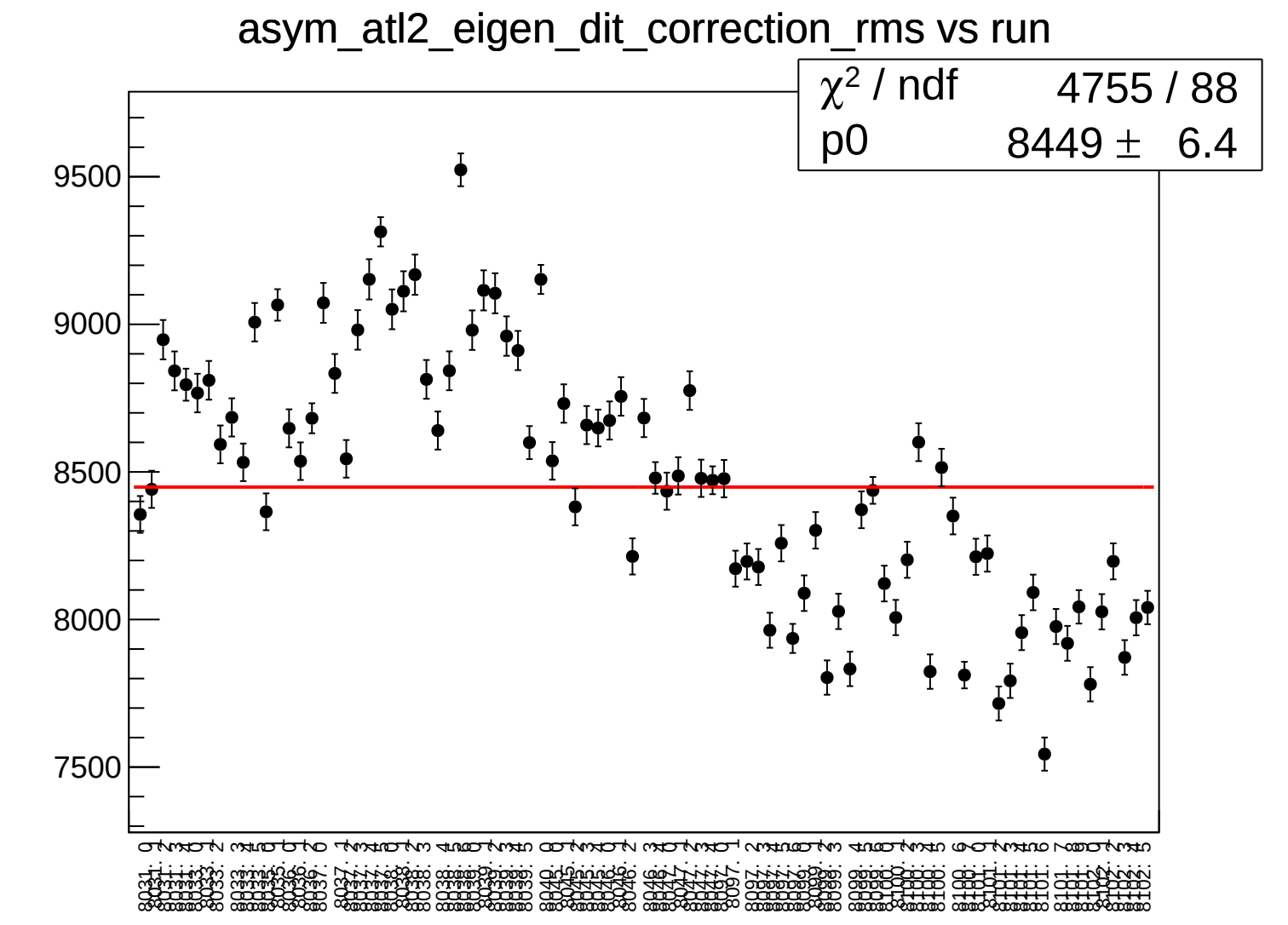

eigen_dit_asym_atl2_mean vs run
×10^3
χ² / ndf 95.64 / 88
p0 2643 ± 2317
100
50
0
−50
−100
pull
Entries 89
Mean 7.891
Std Dev 21.75
3
2
1
0
−1
−2
−3

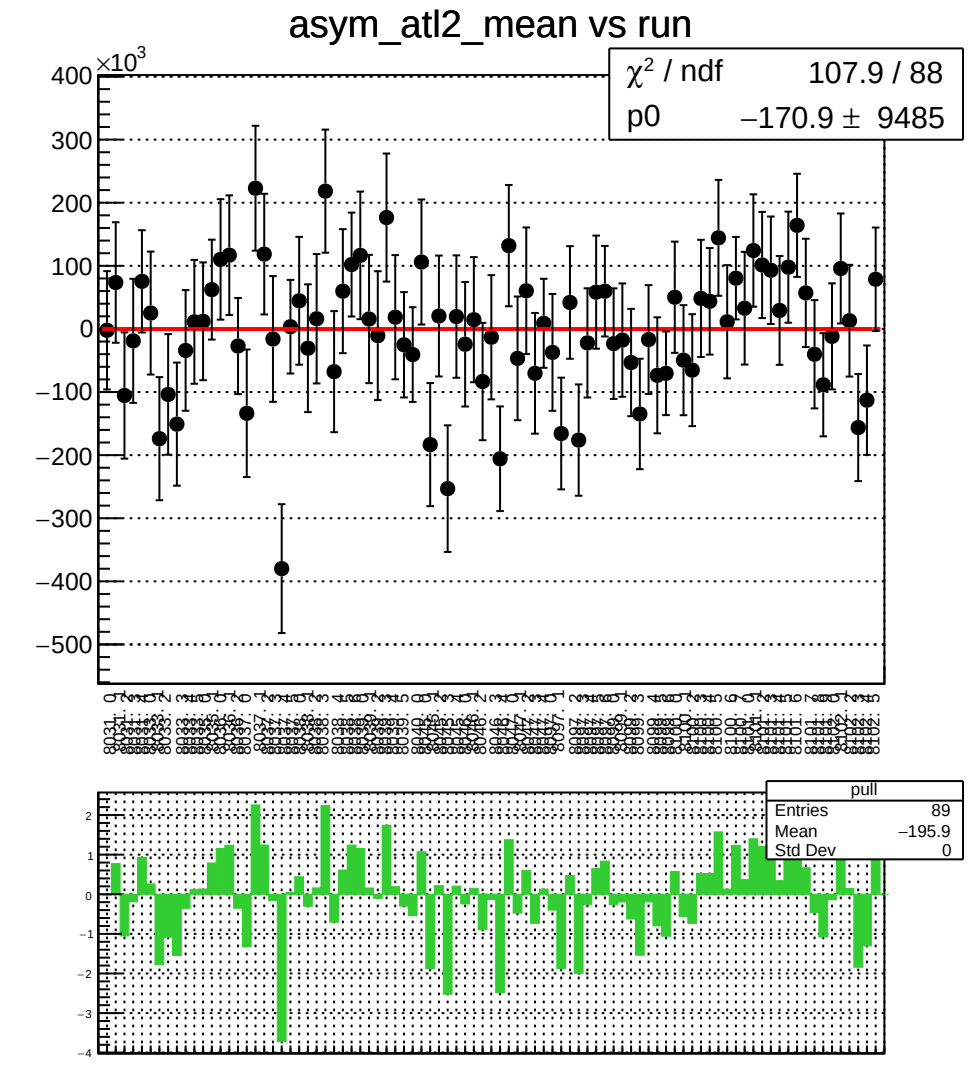

pull1D
Entries 89
Mean −0.01067
Std Dev 1.037
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

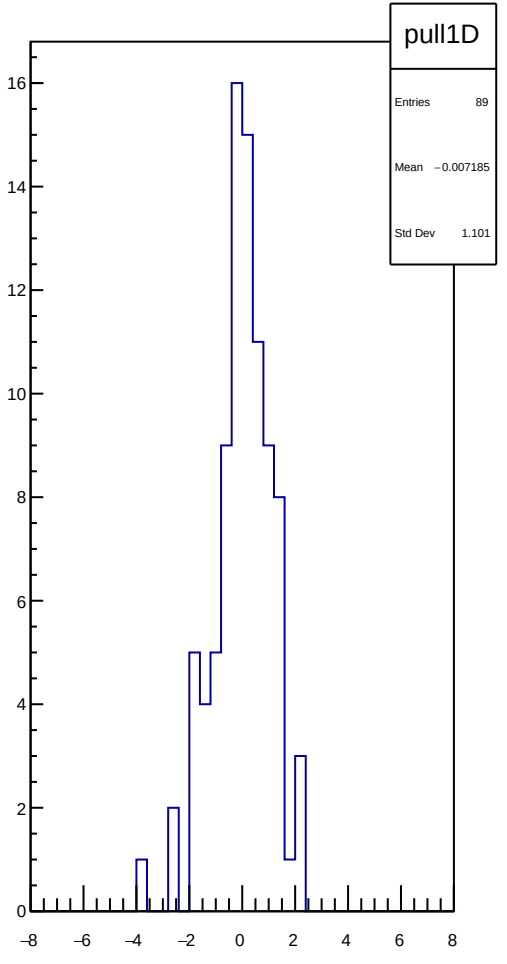

eigen_dit_asym_atl2_rms vs run
$\chi^2$ / ndf 1.005e+04 / 88
p0 2159 ± 1.638
2500
2400
2300
2200
2100
2000

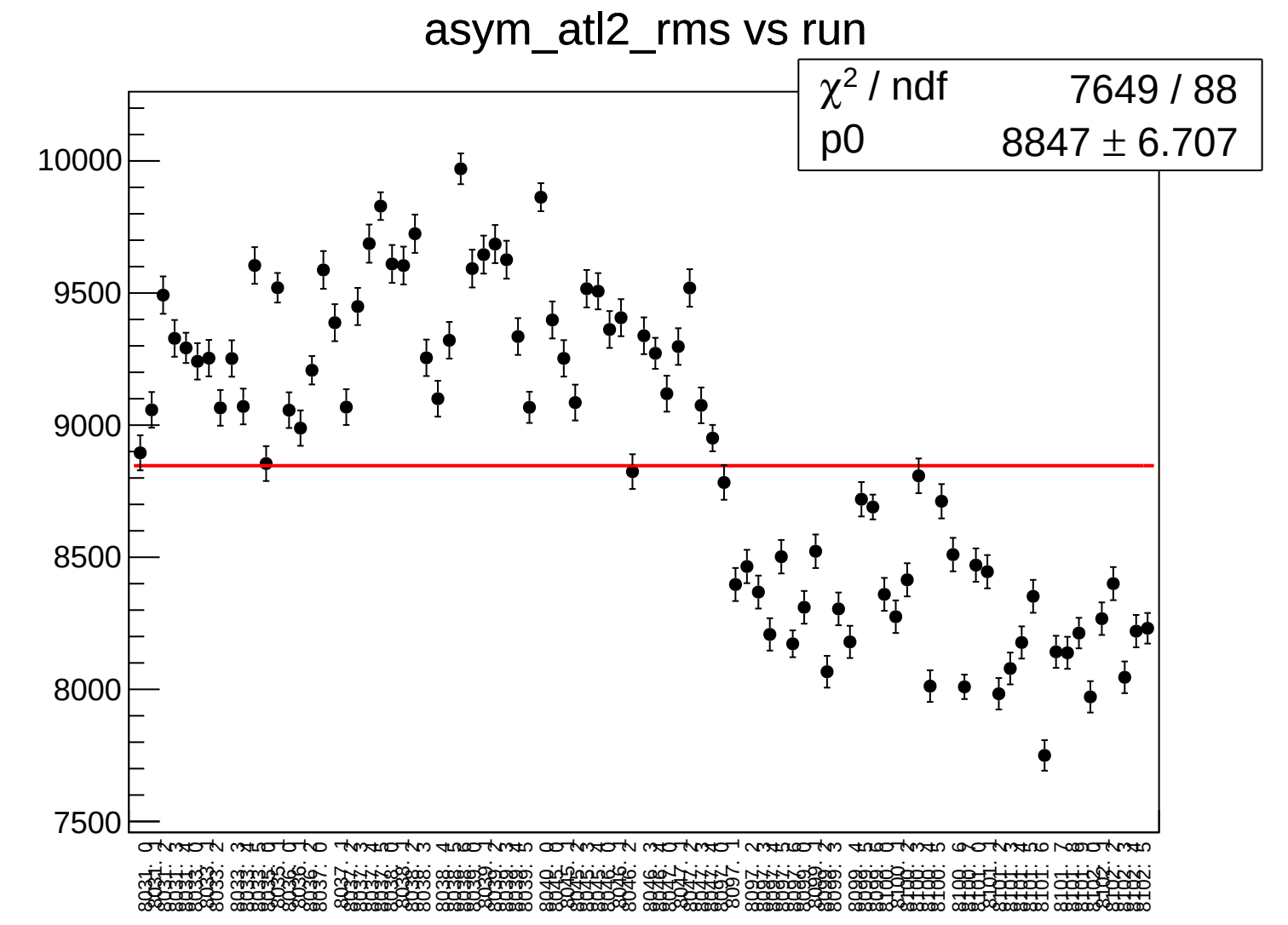

asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 99.54 / 88
p0 2867 ± 9051
pull
Entries 89
Mean −343
Std Dev 0

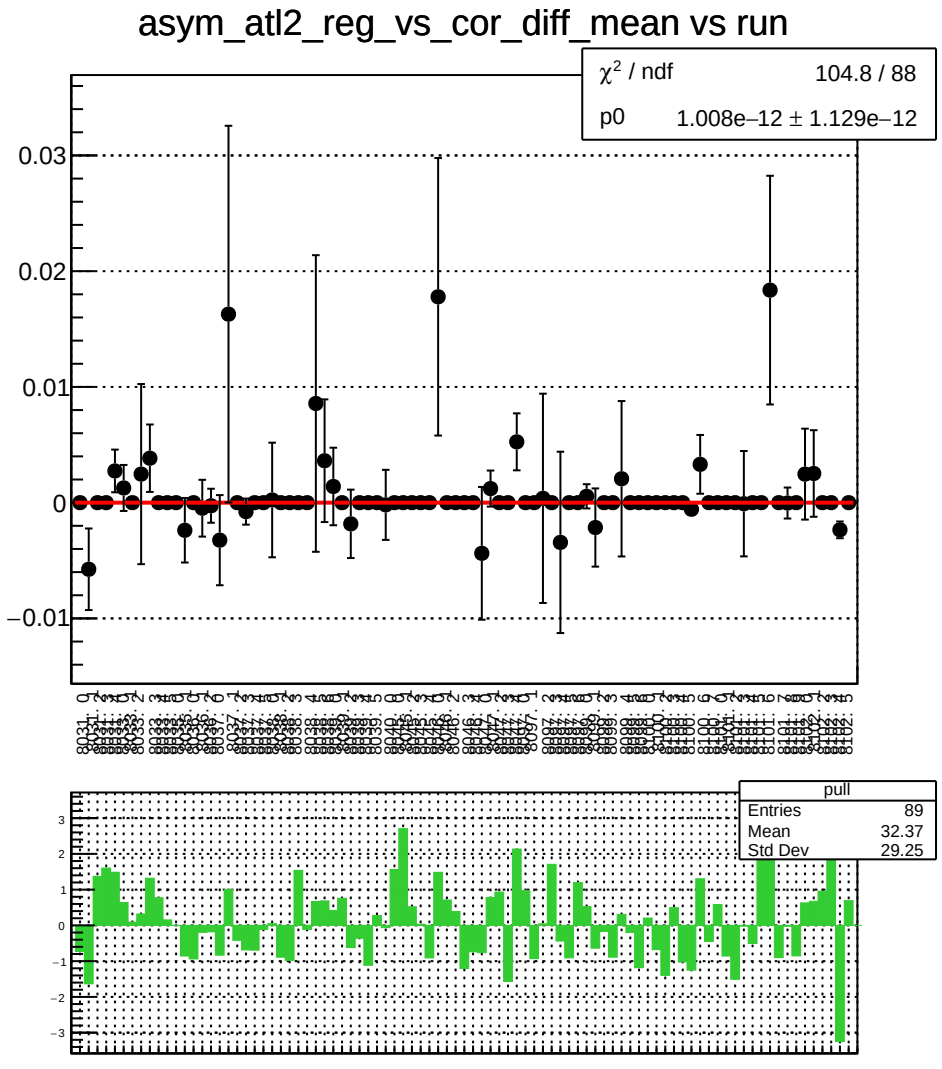

pull1D
Entries 89
Mean 0.00429
Std Dev 1.058

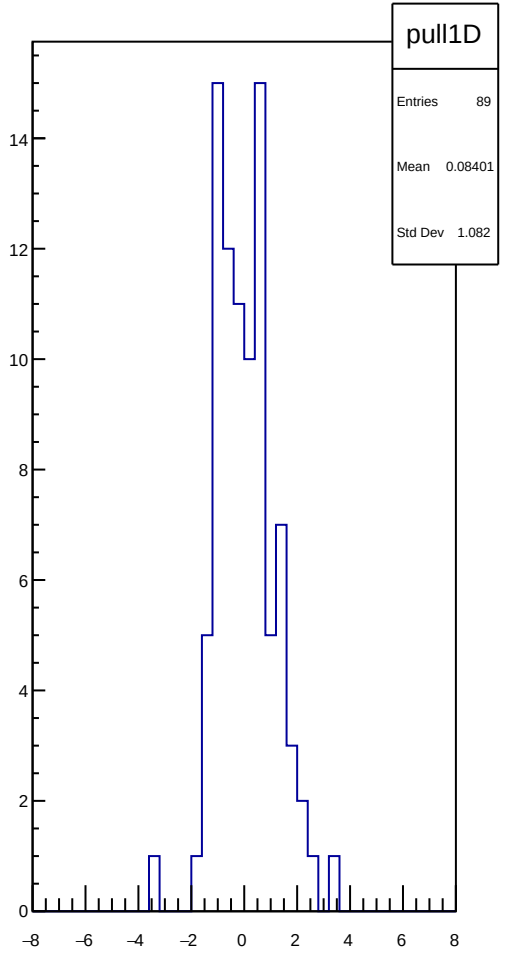

asym_atl2_eigen_dit_correction_rms vs run
χ² / ndf 4755 / 88
p0 8449 ± 6.4
9500
9000
8500
8000
7500

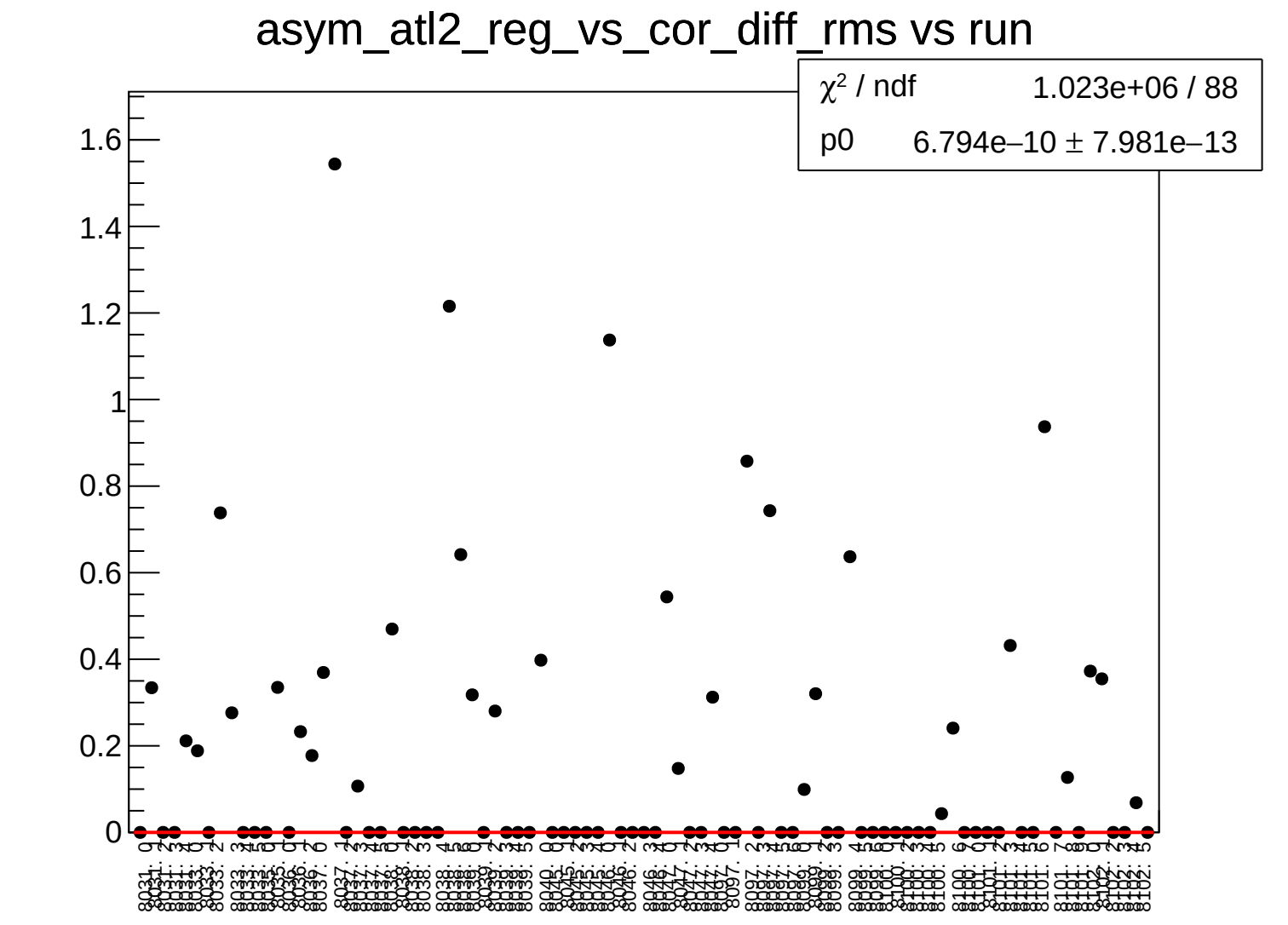

asym_atl2_mean vs run
×10^3
400
300
200
100
0
−100
−200
−300
−400
−500
χ² / ndf 107.9 / 88
p0 −170.9 ± 9485
pull
Entries 89
Mean −195.9
Std Dev 0
2
1
0
−1
−2
−3
−4

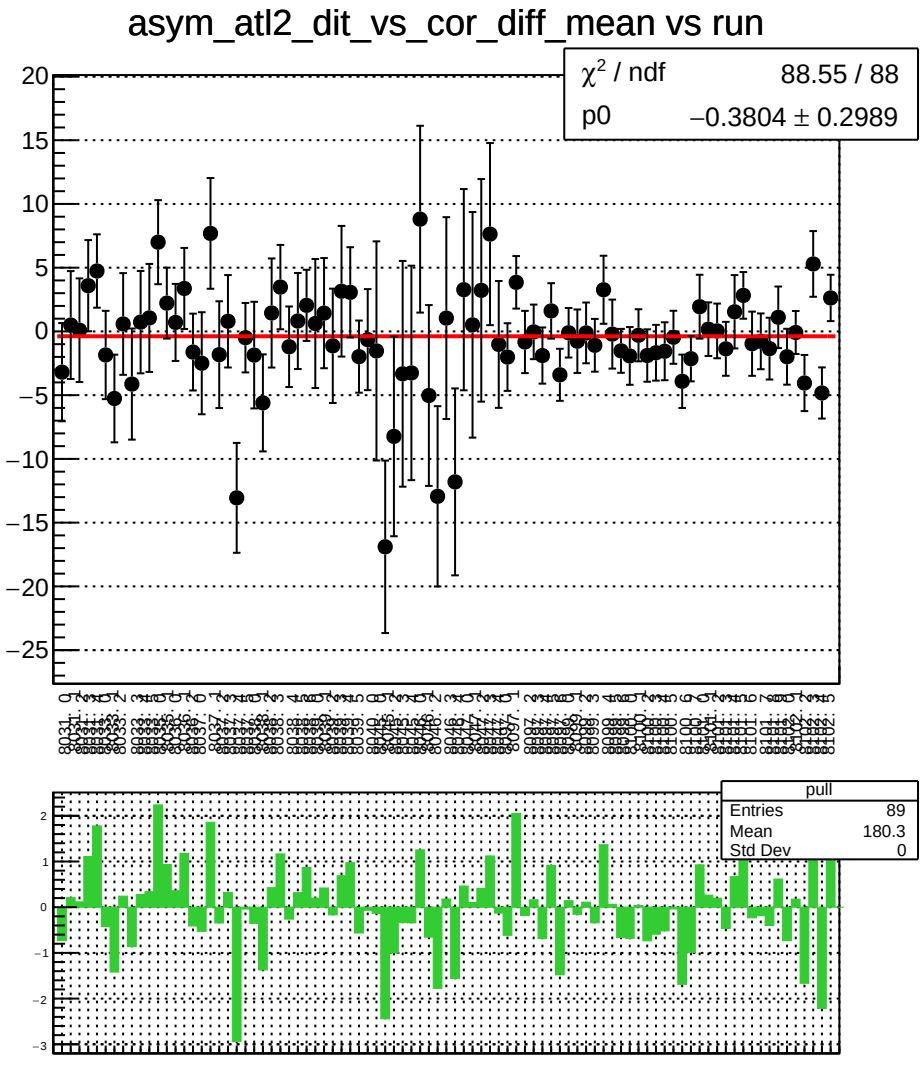

pull1D
Entries 89
Mean −0.007185
Std Dev 1.101
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

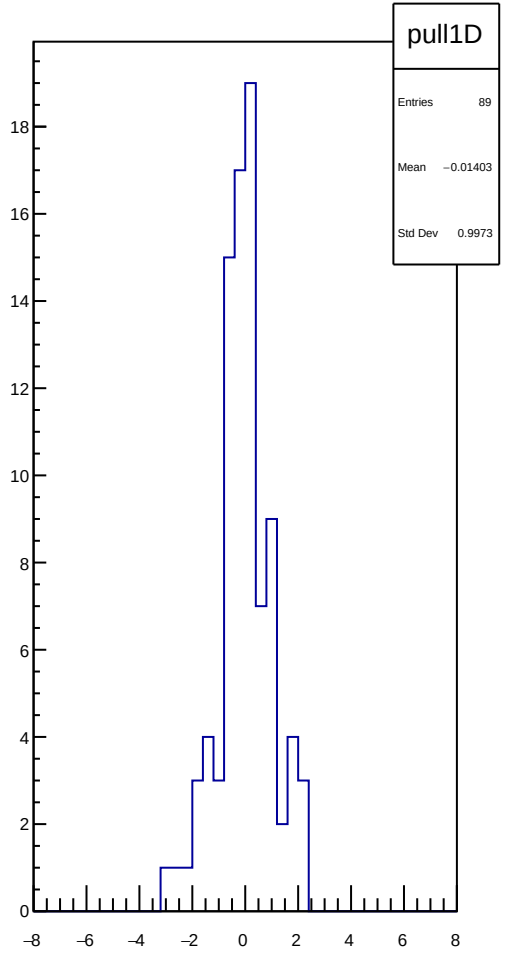

asym_atl2_rms vs run
χ² / ndf 7649 / 88
p0 8847 ± 6.707
10000
9500
9000
8500
8000
7500

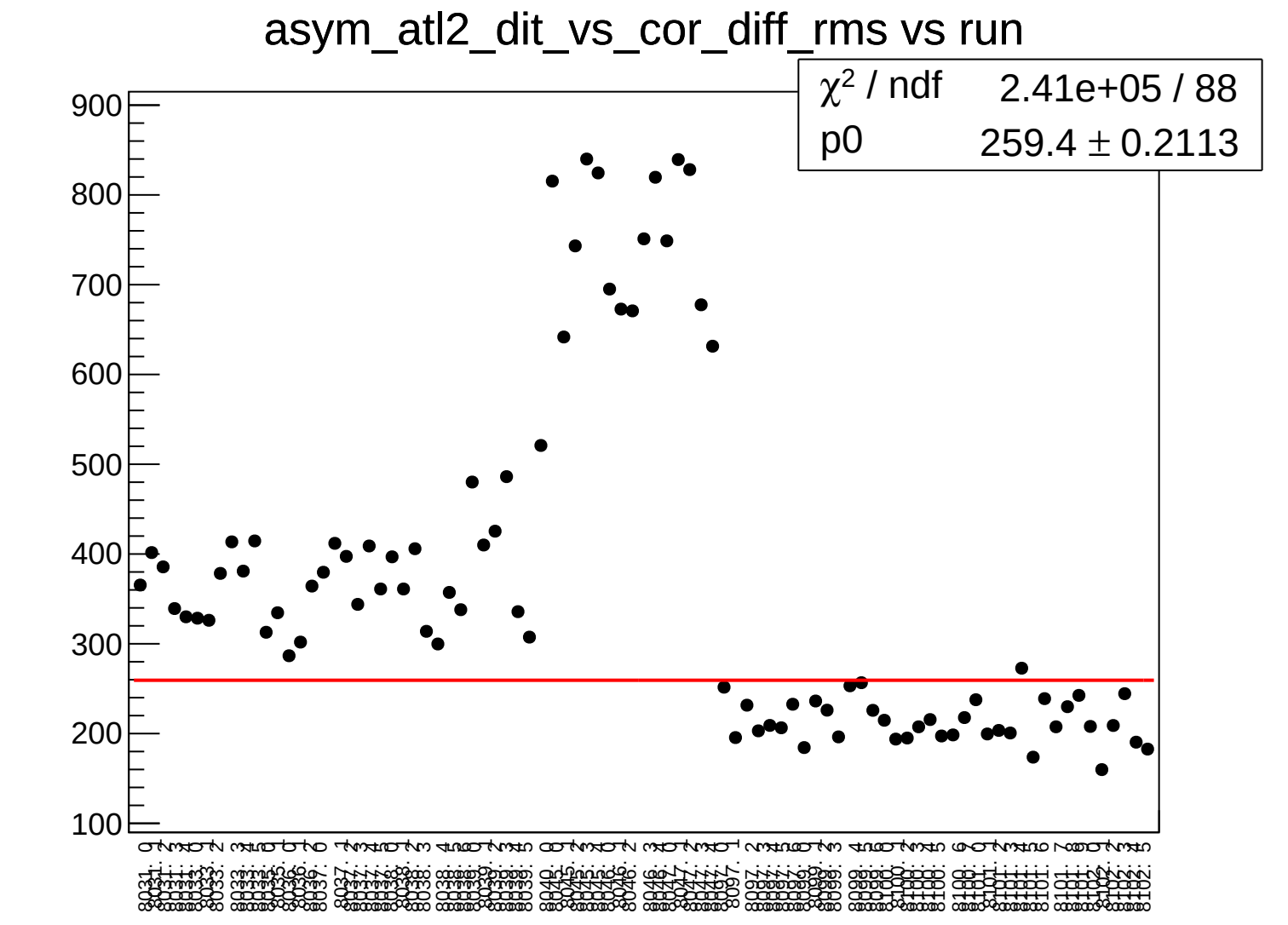

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 104.8 / 88
p0 1.008e−12 ± 1.129e−12
0.03
0.02
0.01
0
−0.01
pull
Entries 89
Mean 32.37
Std Dev 29.25
3
2
1
0
−1
−2
−3

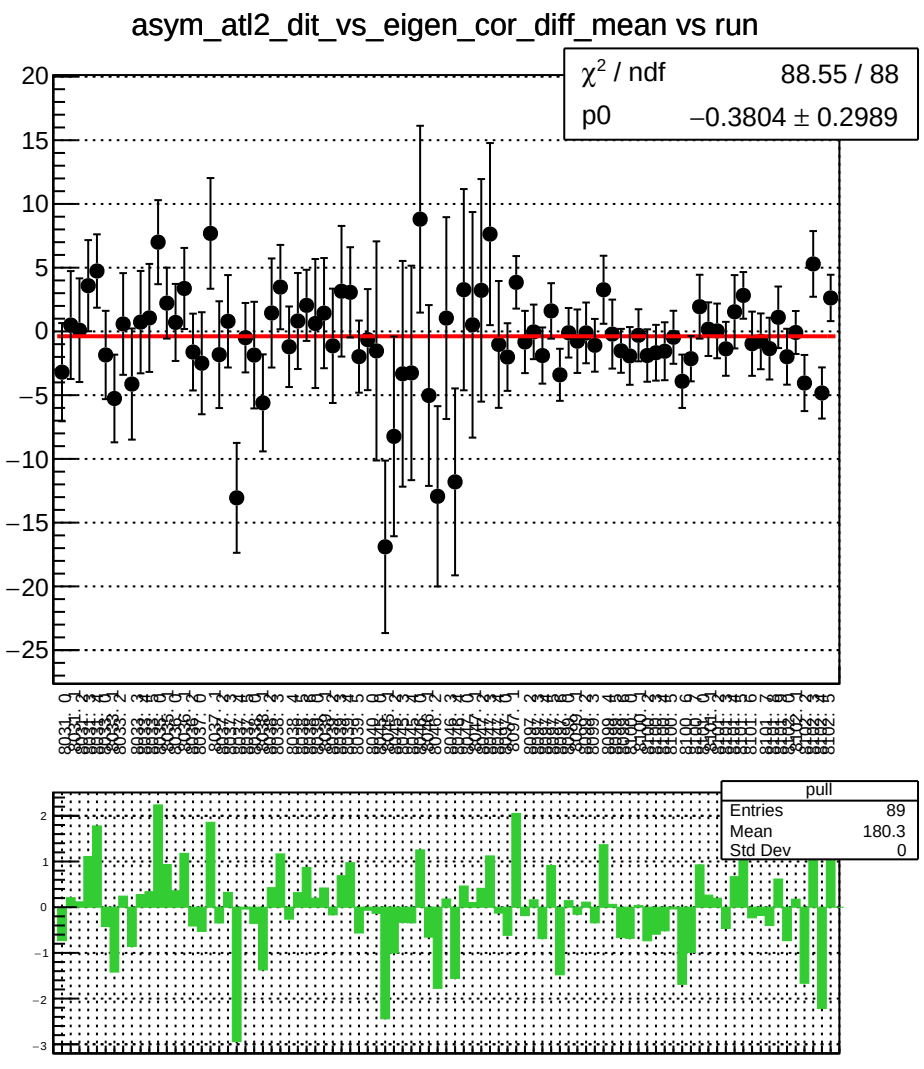

pull1D
Entries 89
Mean 0.08401
Std Dev 1.082
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

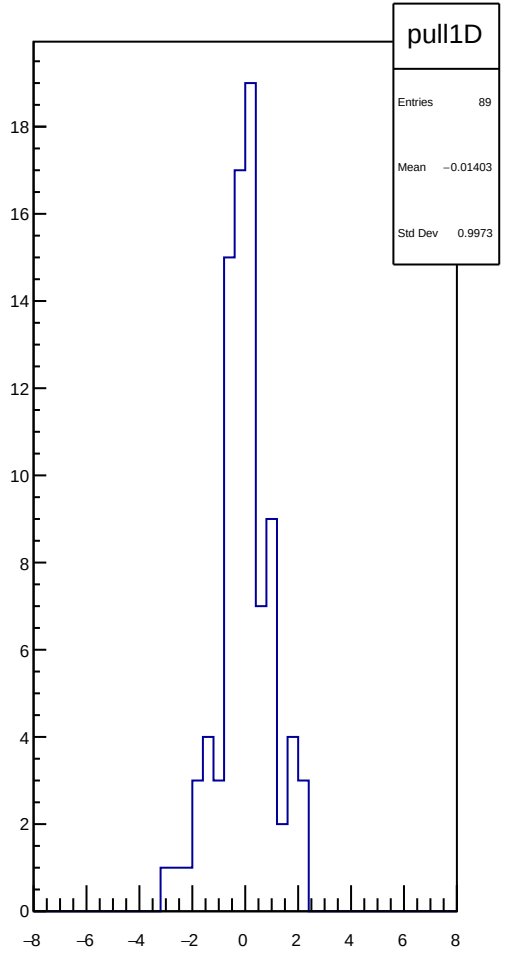

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.023e+06 / 88
p0 6.794e−10 ± 7.981e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

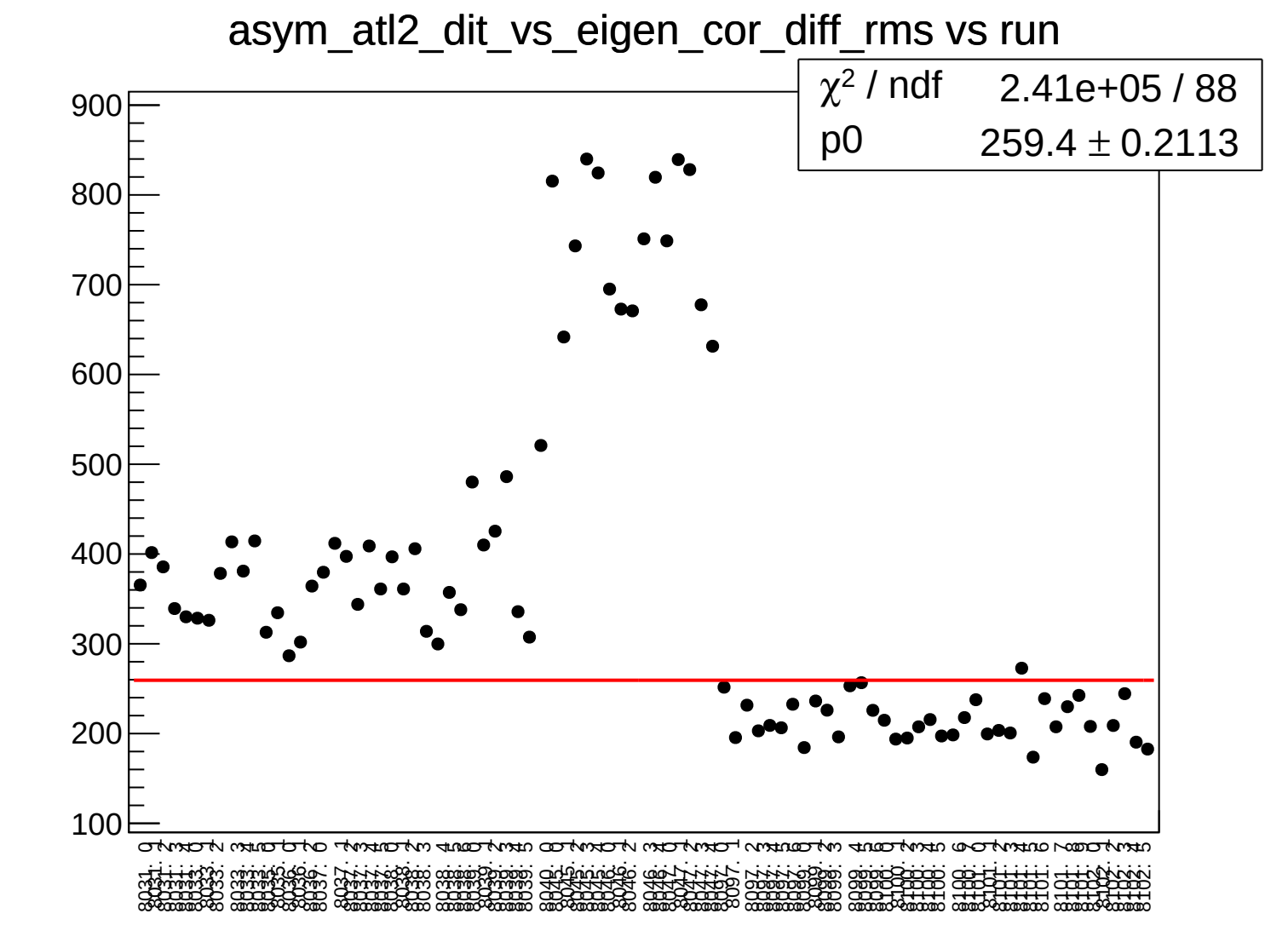

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 88.55 / 88
p0 −0.3804 ± 0.2989
pull
Entries 89
Mean 180.3
Std Dev 0

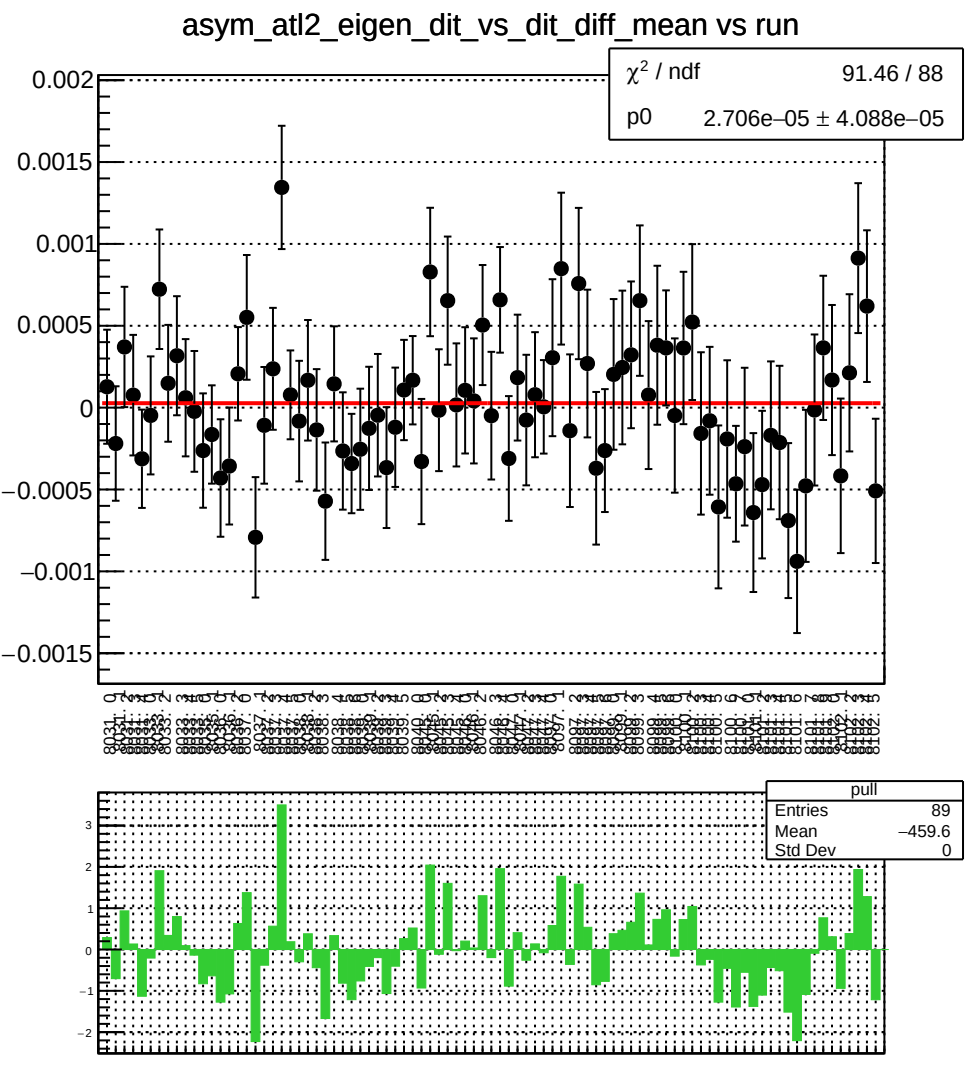

pull1D
Entries 89
Mean −0.01403
Std Dev 0.9973

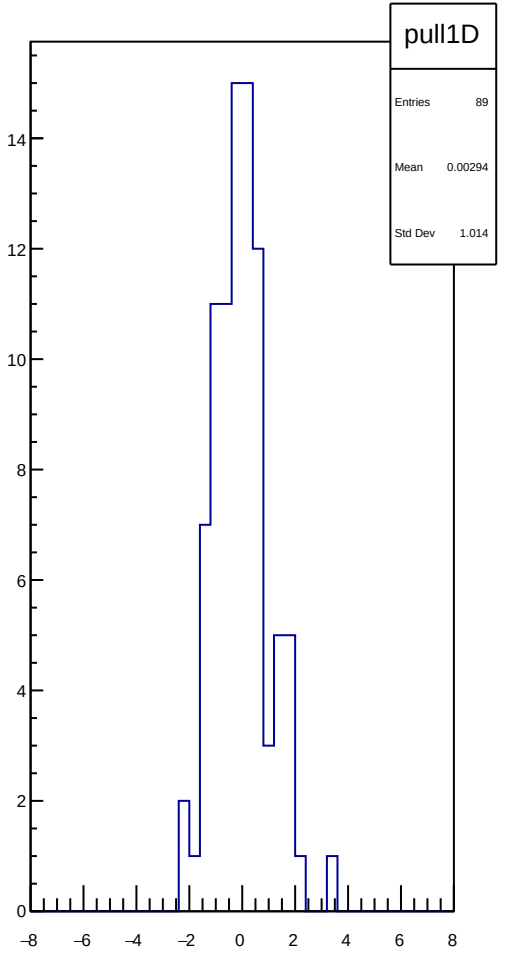

asym_atl2_dit_vs_cor_diff_rms vs run
χ² / ndf 2.41e+05 / 88
p0 259.4 ± 0.2113
900
800
700
600
500
400
300
200
100

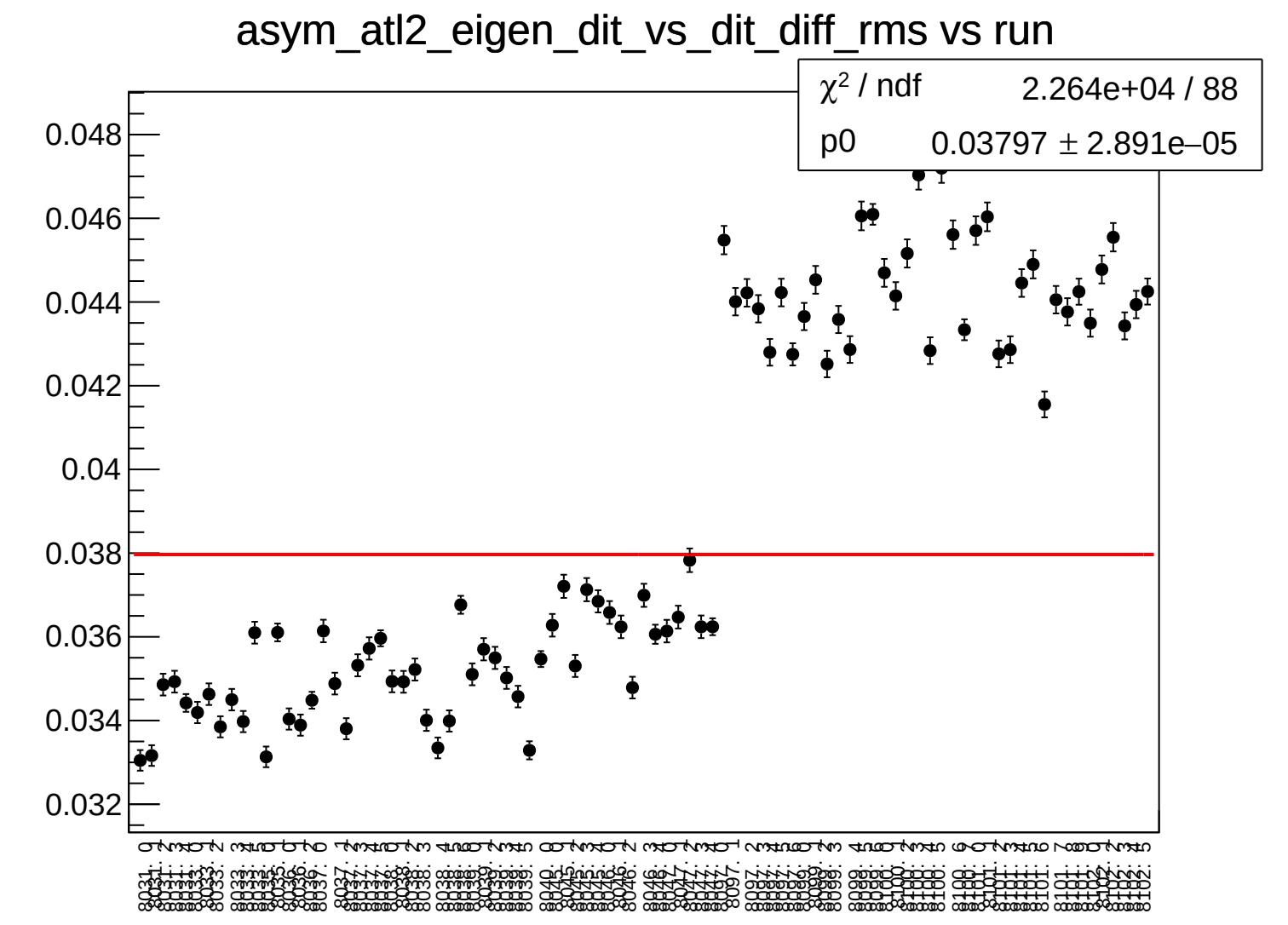

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.55 / 88
p0 −0.3804 ± 0.2989
pull
Entries 89
Mean 180.3
Std Dev 0

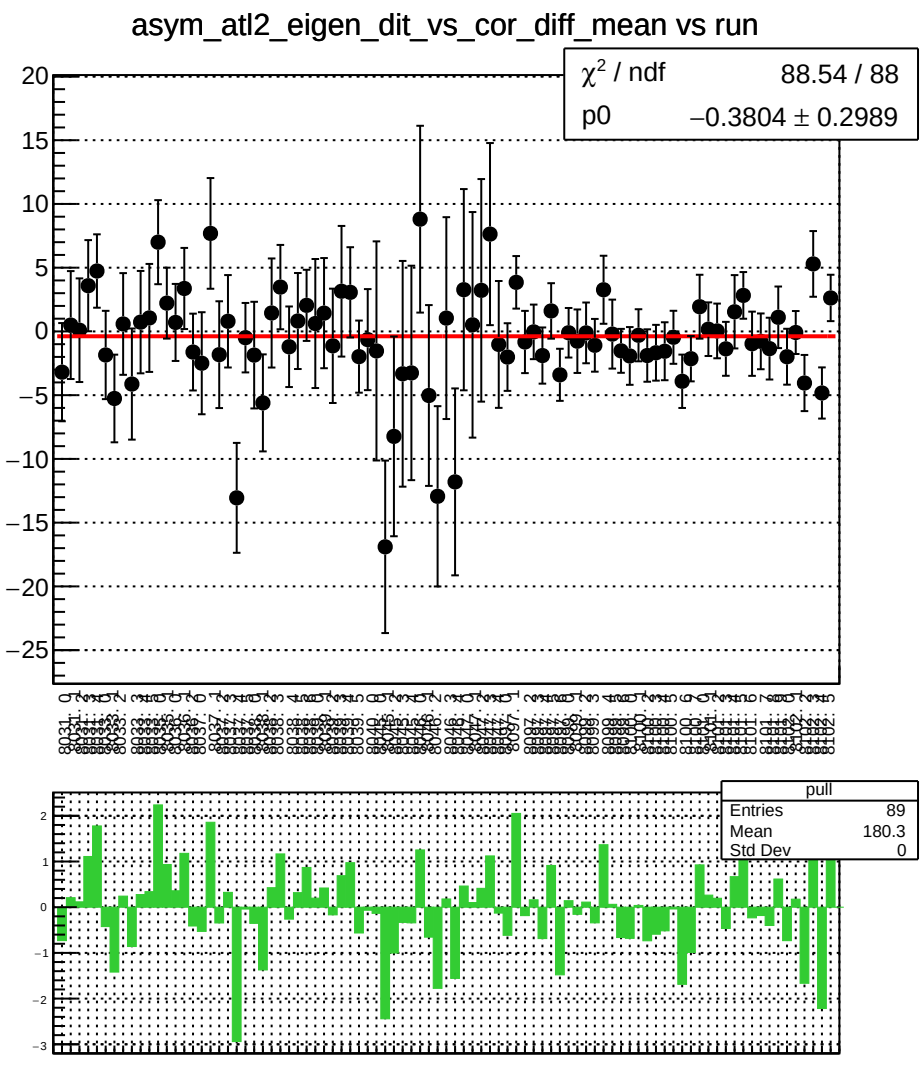

pull1D
Entries 89
Mean −0.01403
Std Dev 0.9973

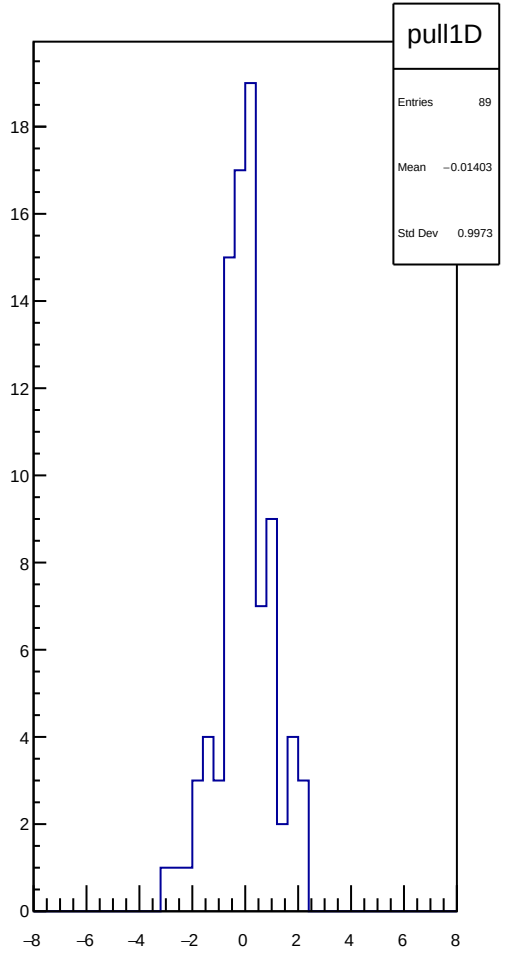

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 2.41e+05 / 88
p0 259.4 ± 0.2113
900
800
700
600
500
400
300
200
100

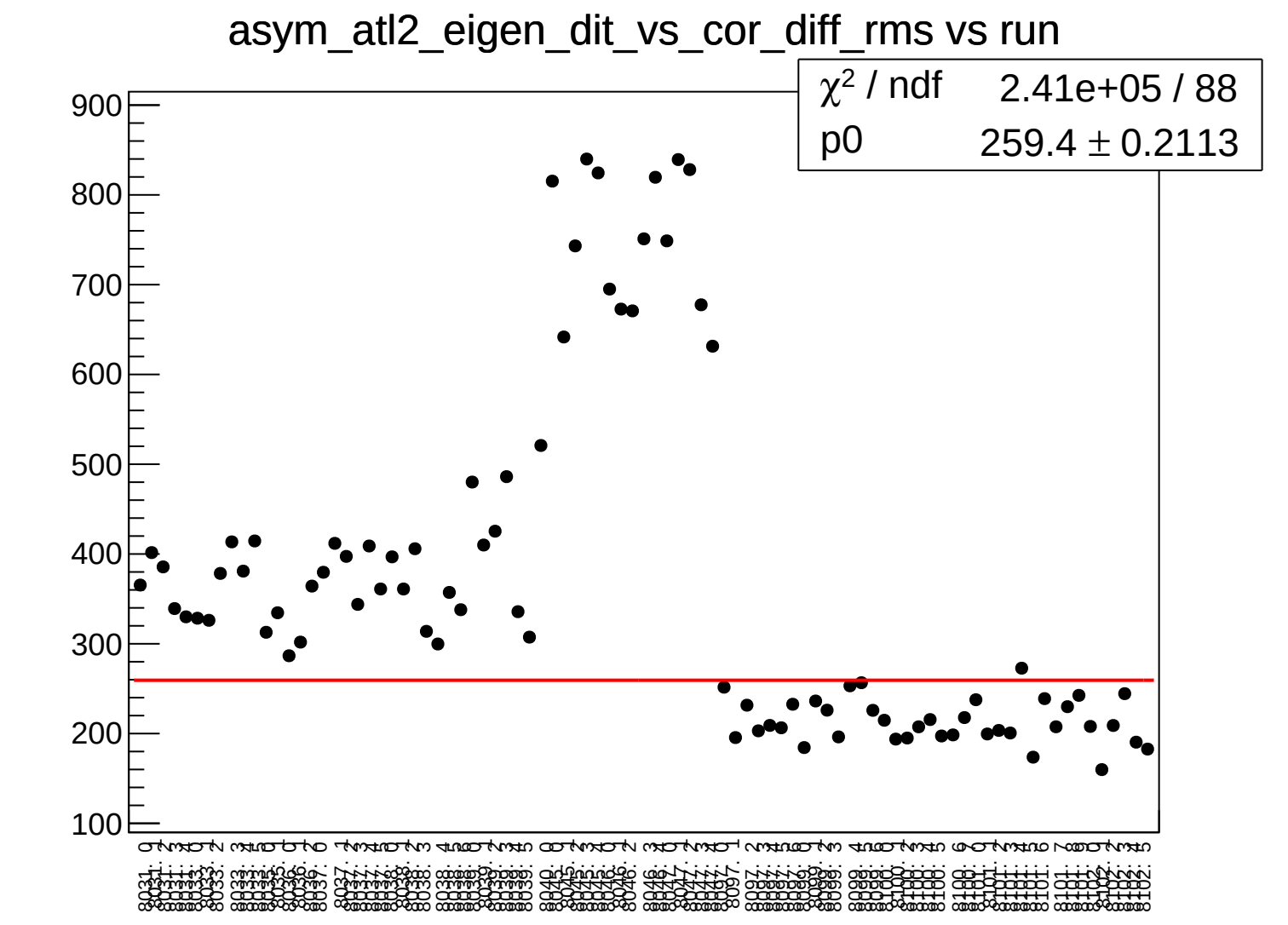

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 91.46 / 88
p0 2.706e−05 ± 4.088e−05
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 89
Mean −459.6
Std Dev 0
3
2
1
0
−1
−2

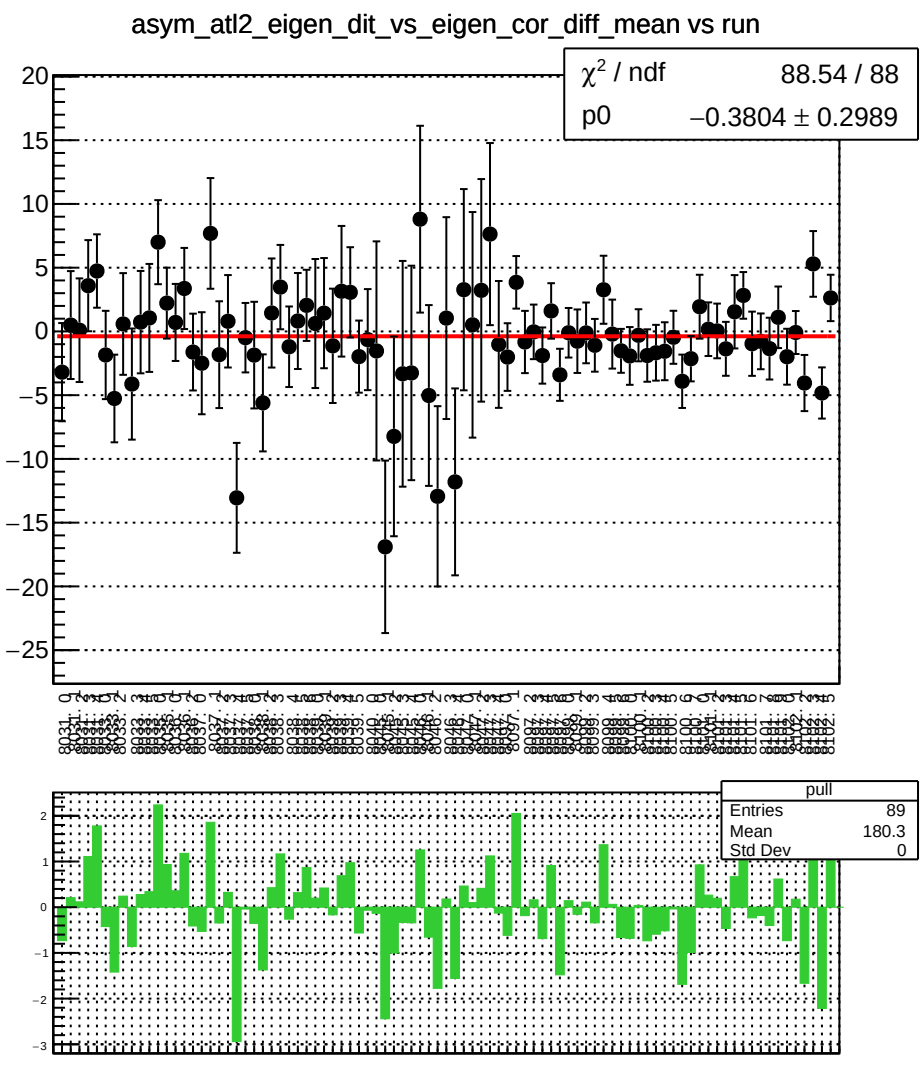

pull1D
Entries 89
Mean 0.00294
Std Dev 1.014
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

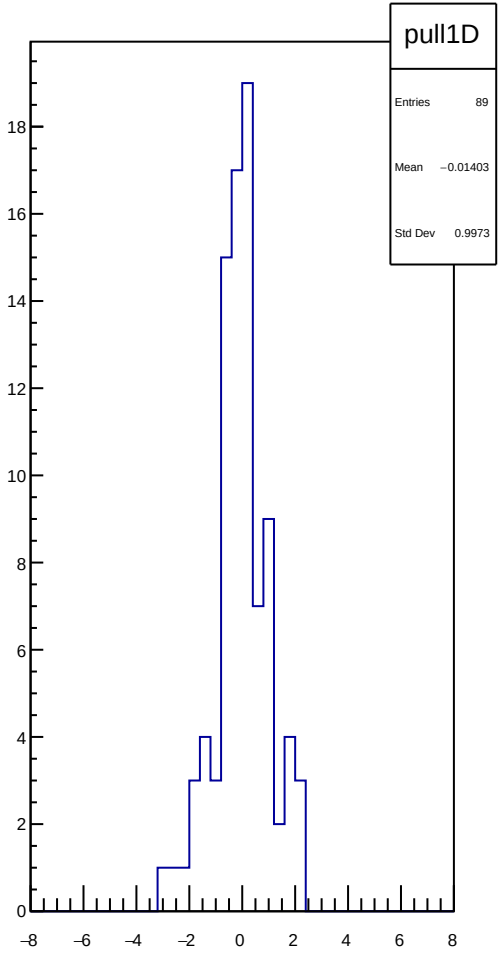

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.264e+04 / 88
p0 0.03797 ± 2.891e–05
0.048
0.046
0.044
0.042
0.04
0.038
0.036
0.034
0.032

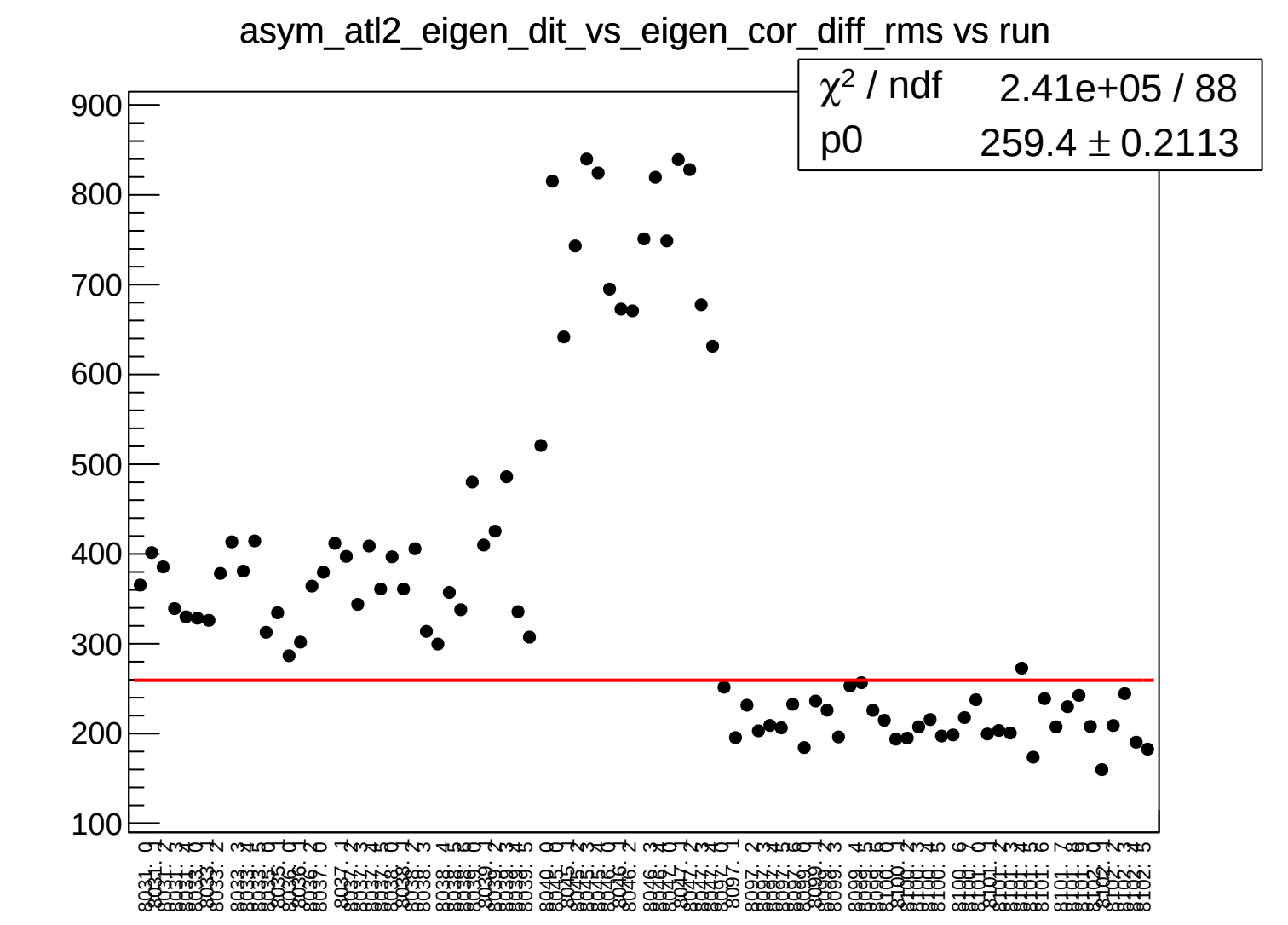

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.54 / 88
p0 −0.3804 ± 0.2989
pull
Entries 89
Mean 180.3
Std Dev 0

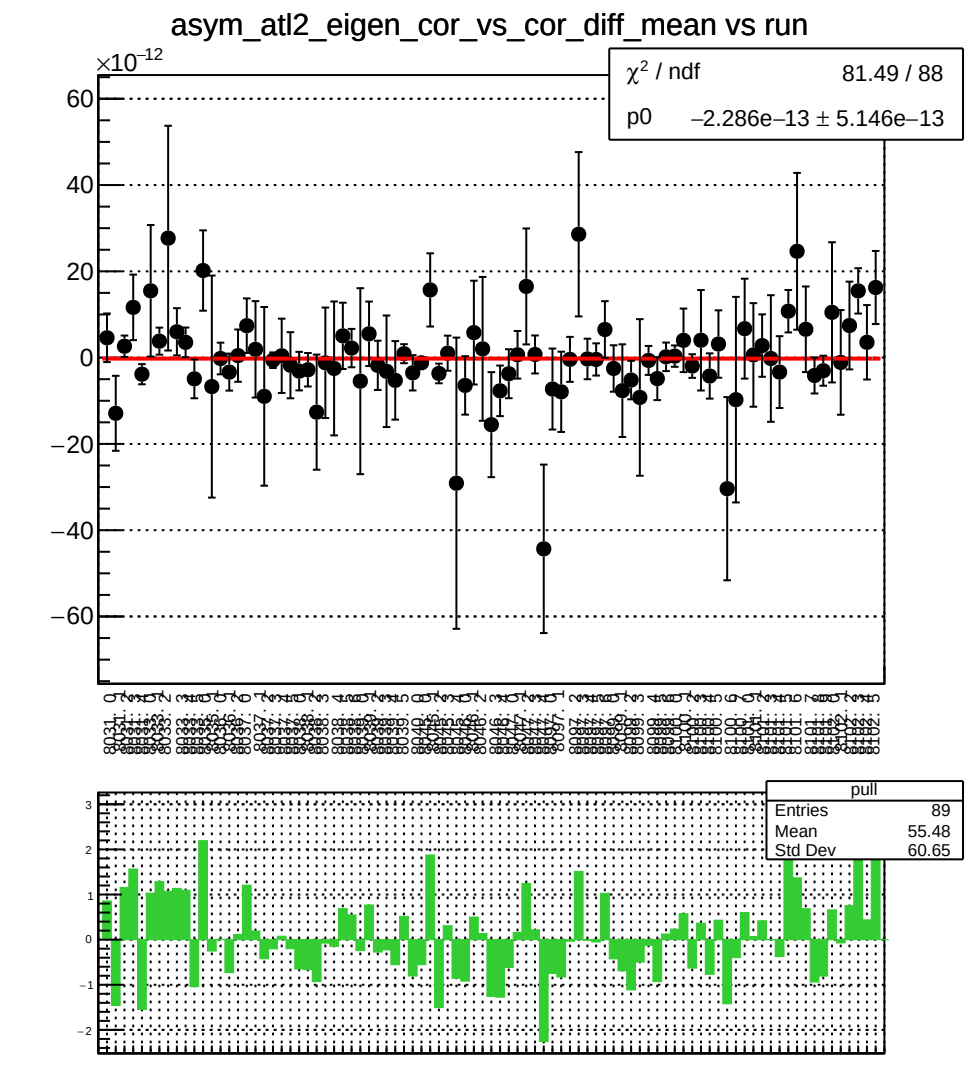

pull1D
Entries 89
Mean −0.01403
Std Dev 0.9973

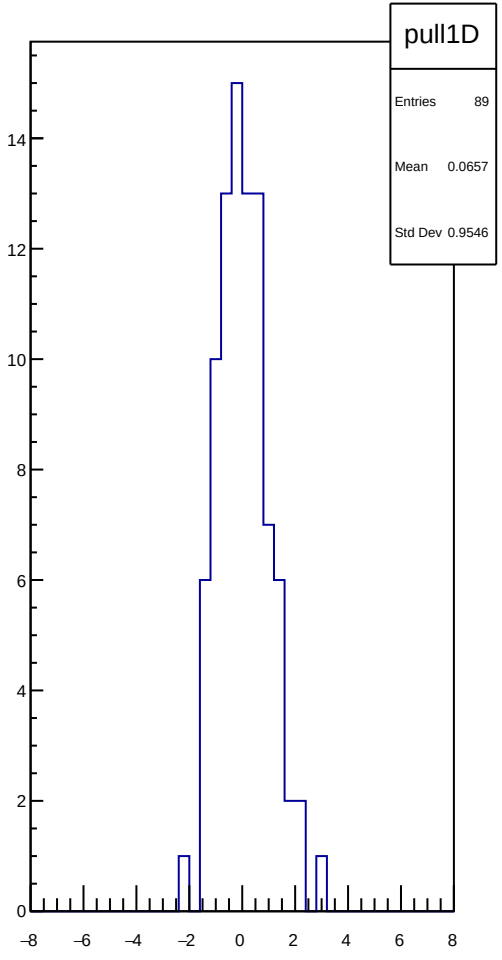

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.41e+05 / 88
p0 259.4 ± 0.2113
900
800
700
600
500
400
300
200
100

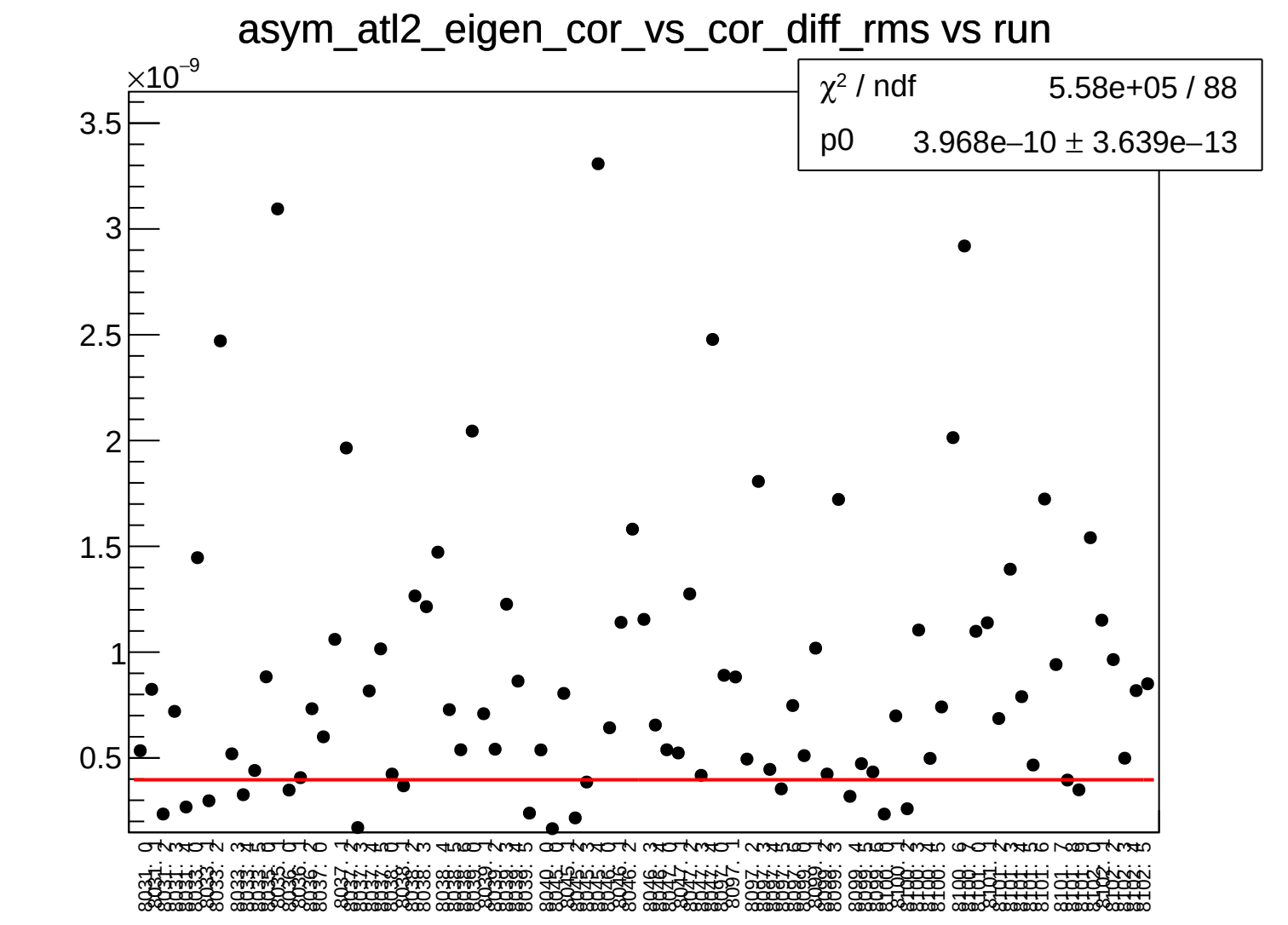

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.54 / 88
p0 −0.3804 ± 0.2989
pull
Entries 89
Mean 180.3
Std Dev 0

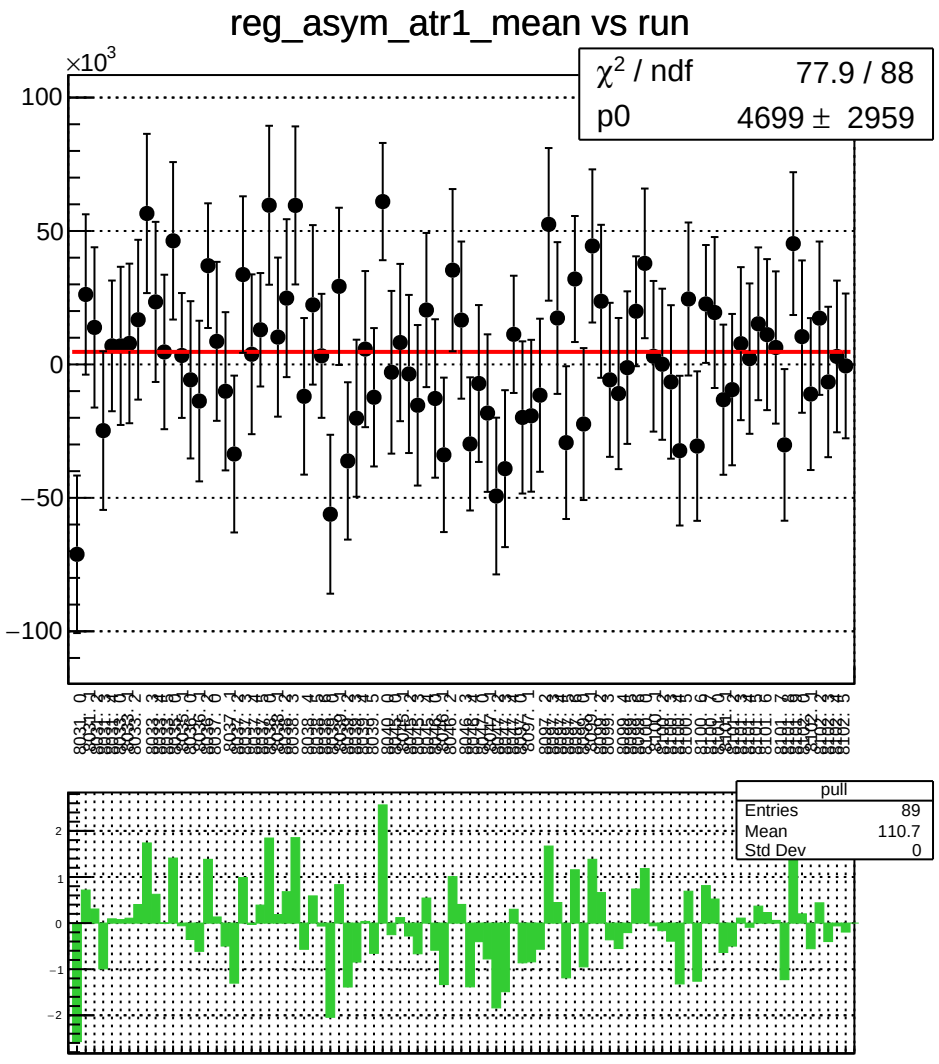

pull1D
Entries 89
Mean −0.01403
Std Dev 0.9973

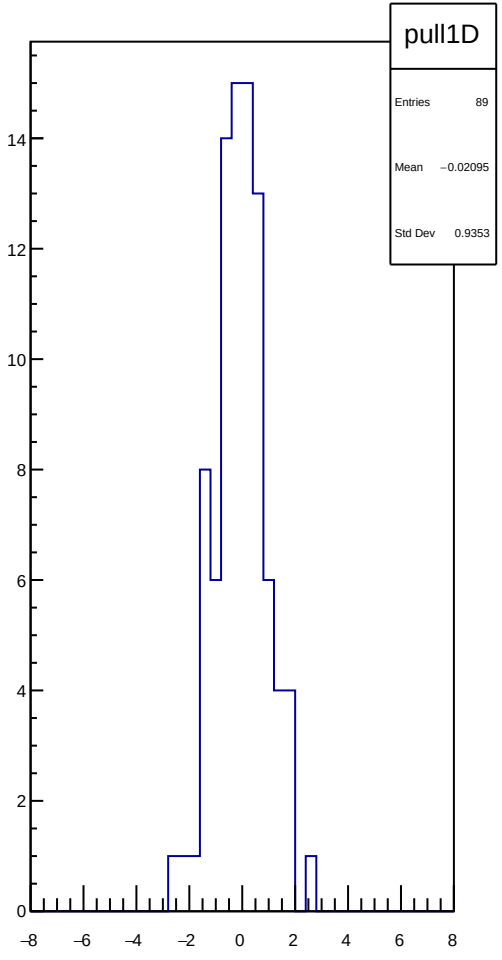

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.41e+05 / 88
p0 259.4 ± 0.2113
900
800
700
600
500
400
300
200
100

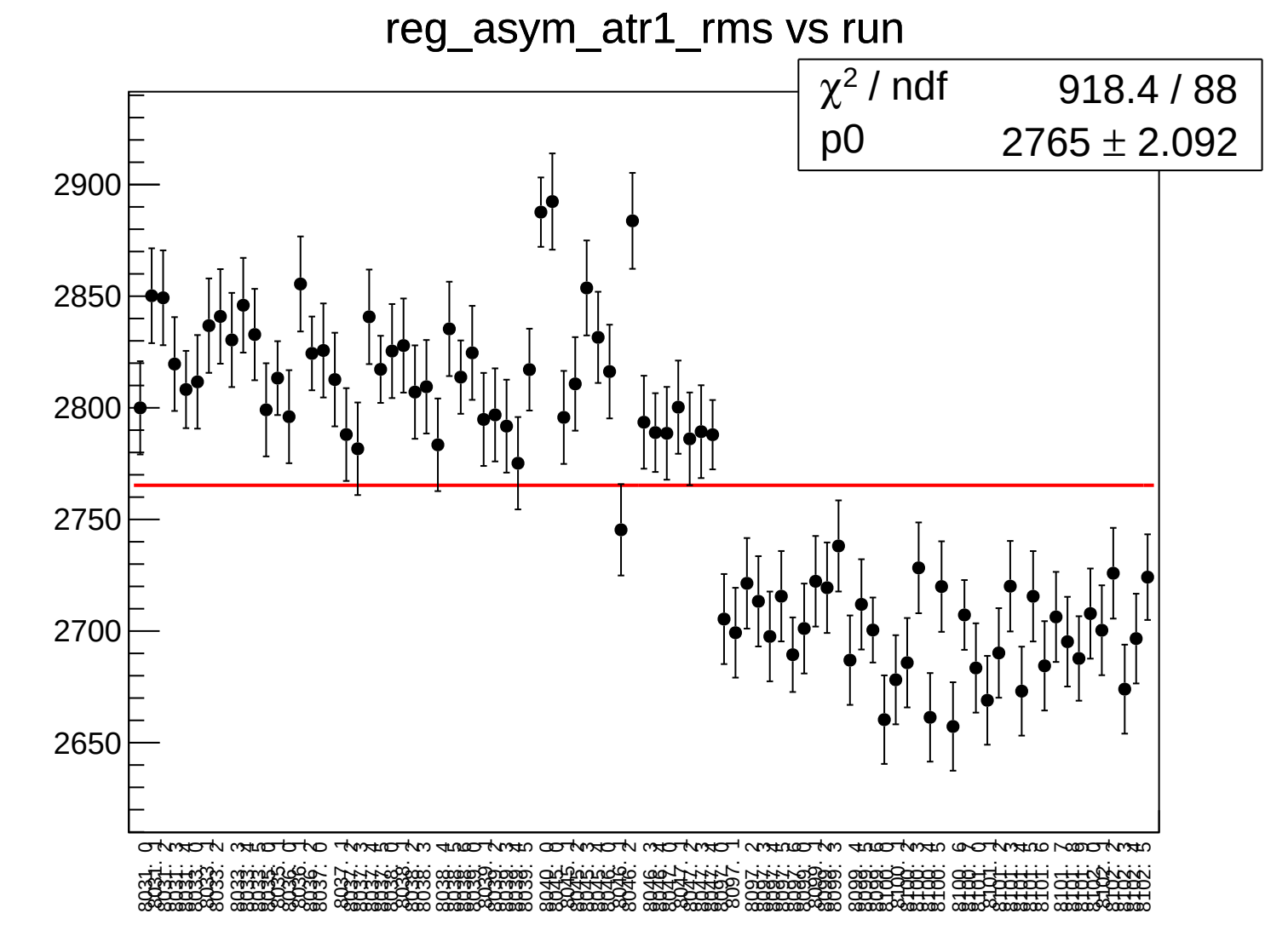

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.49 / 88
p0 −2.286e−13 ± 5.146e−13
pull
Entries 89
Mean 55.48
Std Dev 60.65

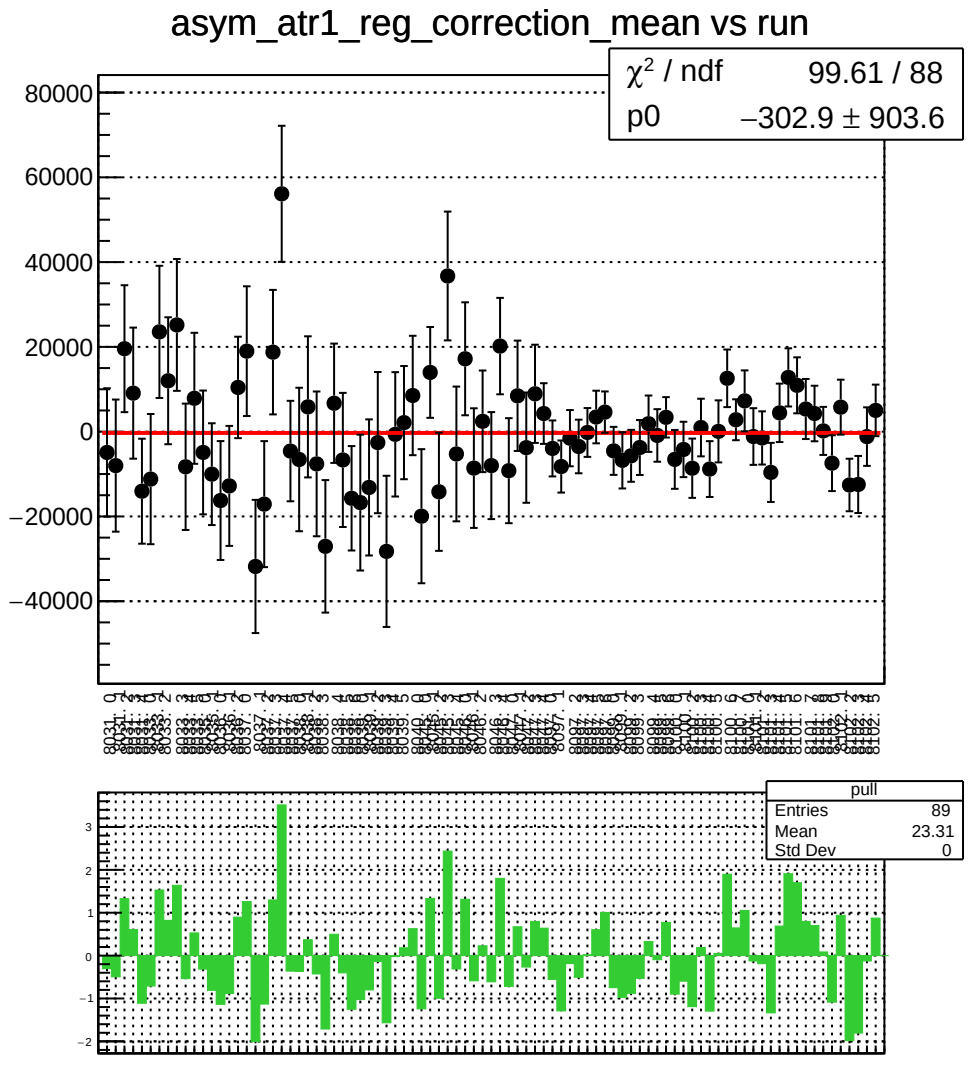

pull1D
Entries 89
Mean 0.0657
Std Dev 0.9546

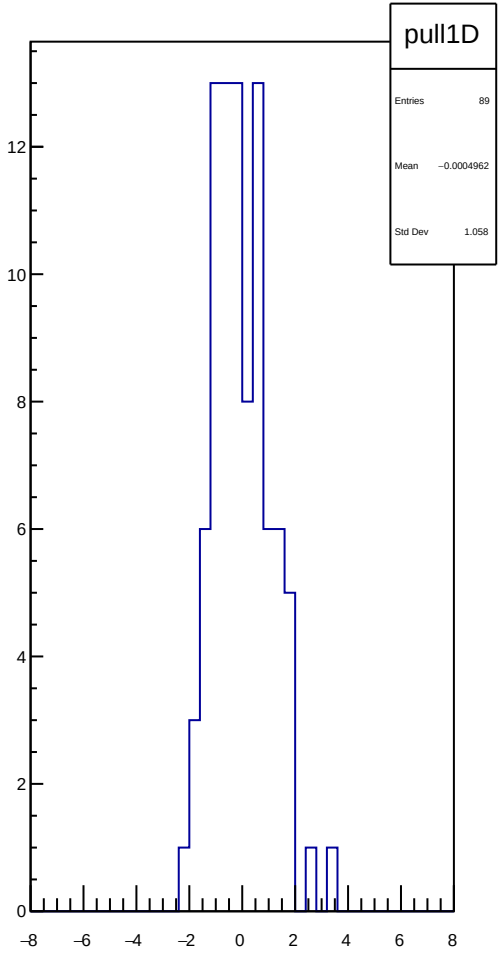

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.58e+05 / 88
p0 3.968e−10 ± 3.639e−13
3.5
3
2.5
2
1.5
1
0.5

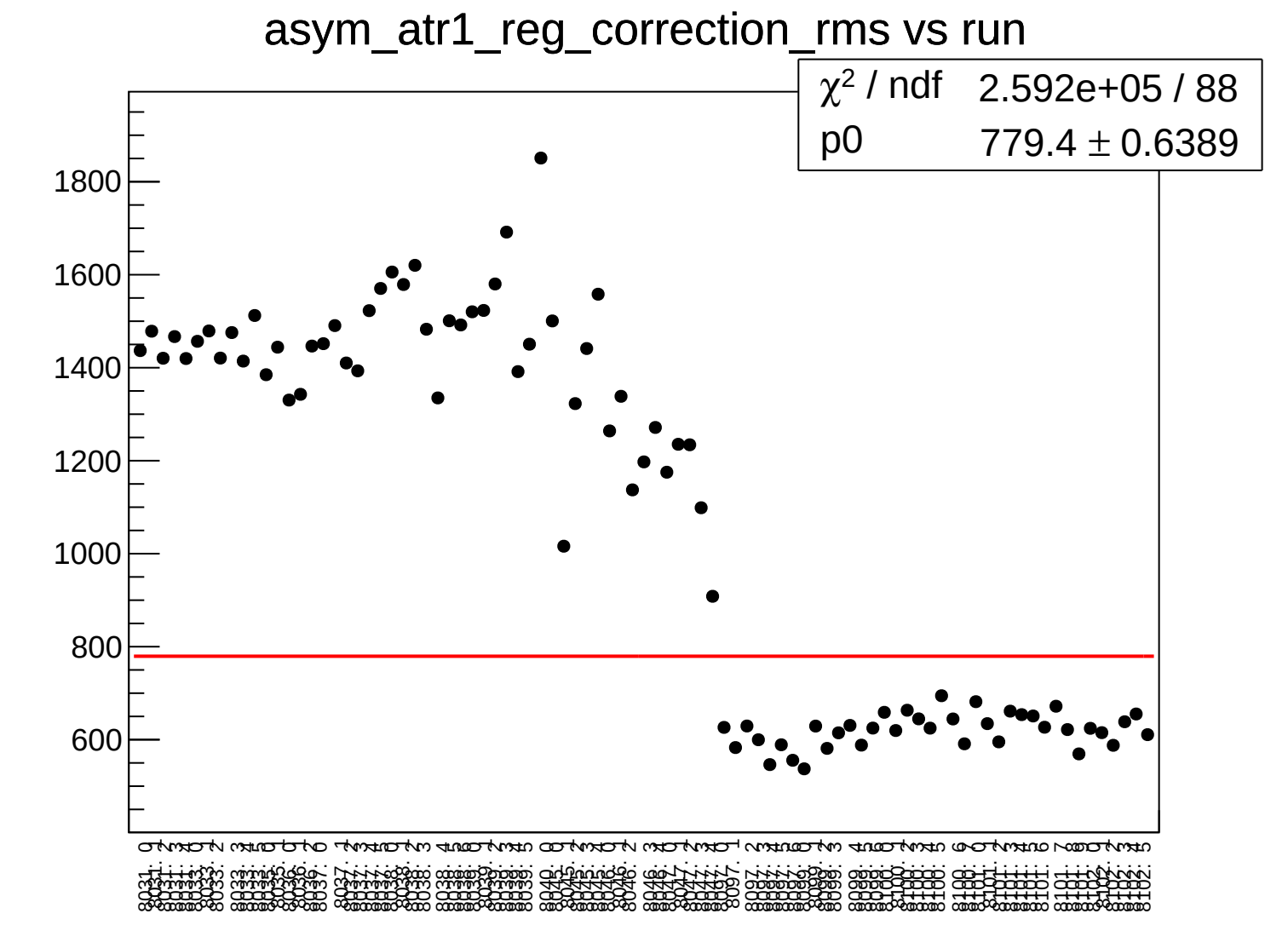

reg_asym_atr1_mean vs run
×10^3
χ^2 / ndf 77.9 / 88
p0 4699 ± 2959
100
50
0
−50
−100
pull
Entries 89
Mean 110.7
Std Dev 0
2
1
0
−1
−2

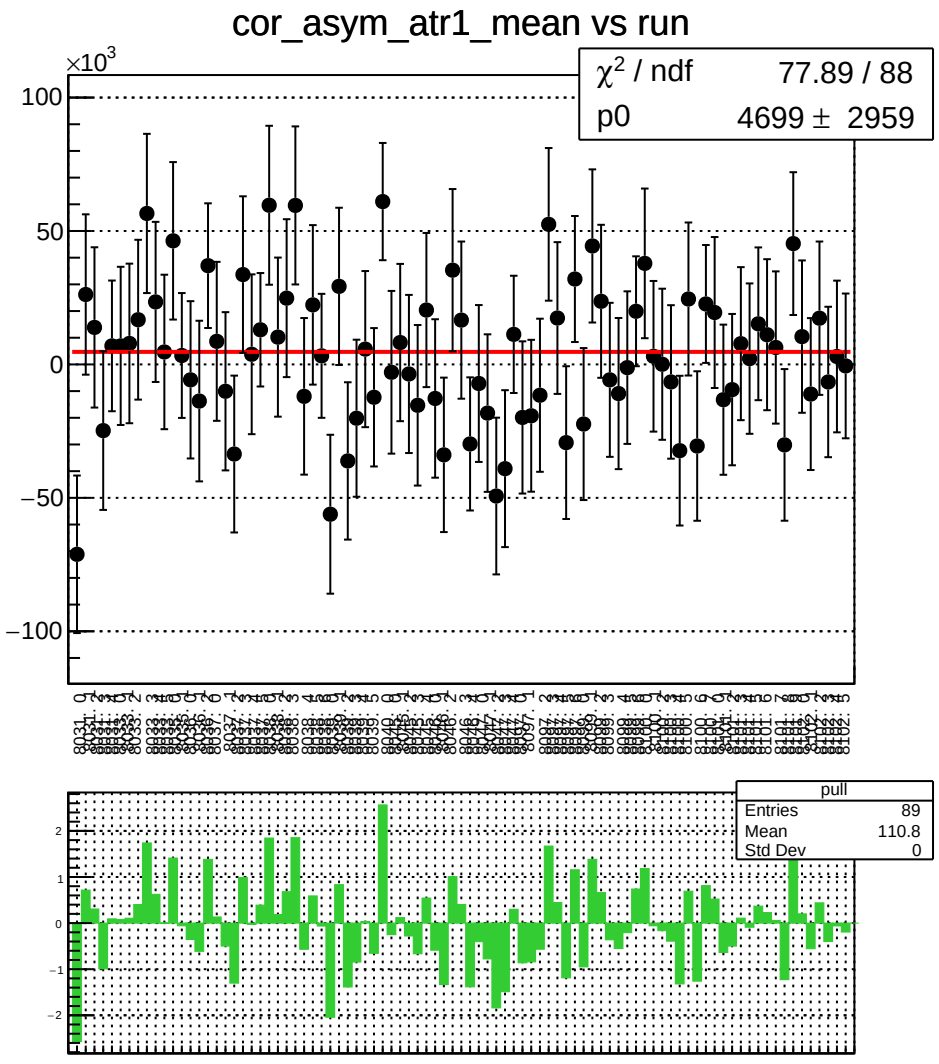

pull1D
Entries 89
Mean −0.02095
Std Dev 0.9353
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

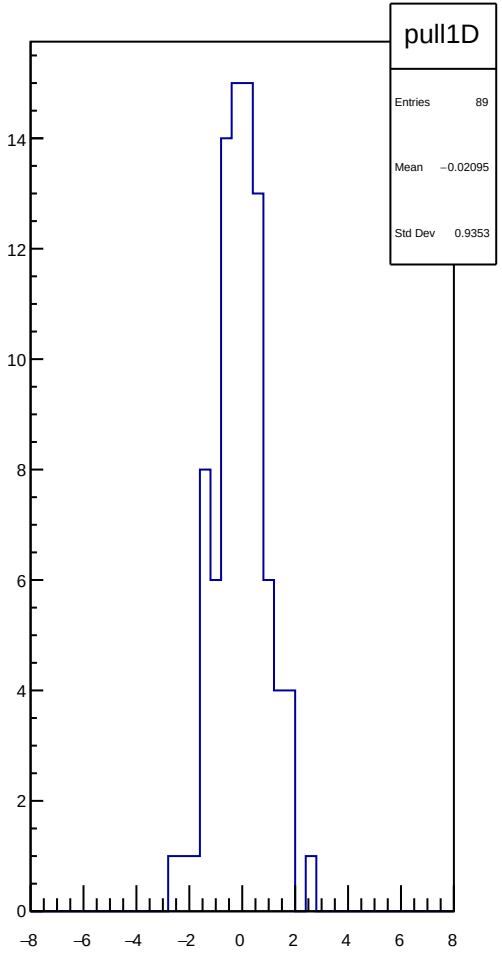

reg_asym_atr1_rms vs run
$\chi^2$ / ndf 918.4 / 88
p0 2765 ± 2.092
2900
2850
2800
2750
2700
2650

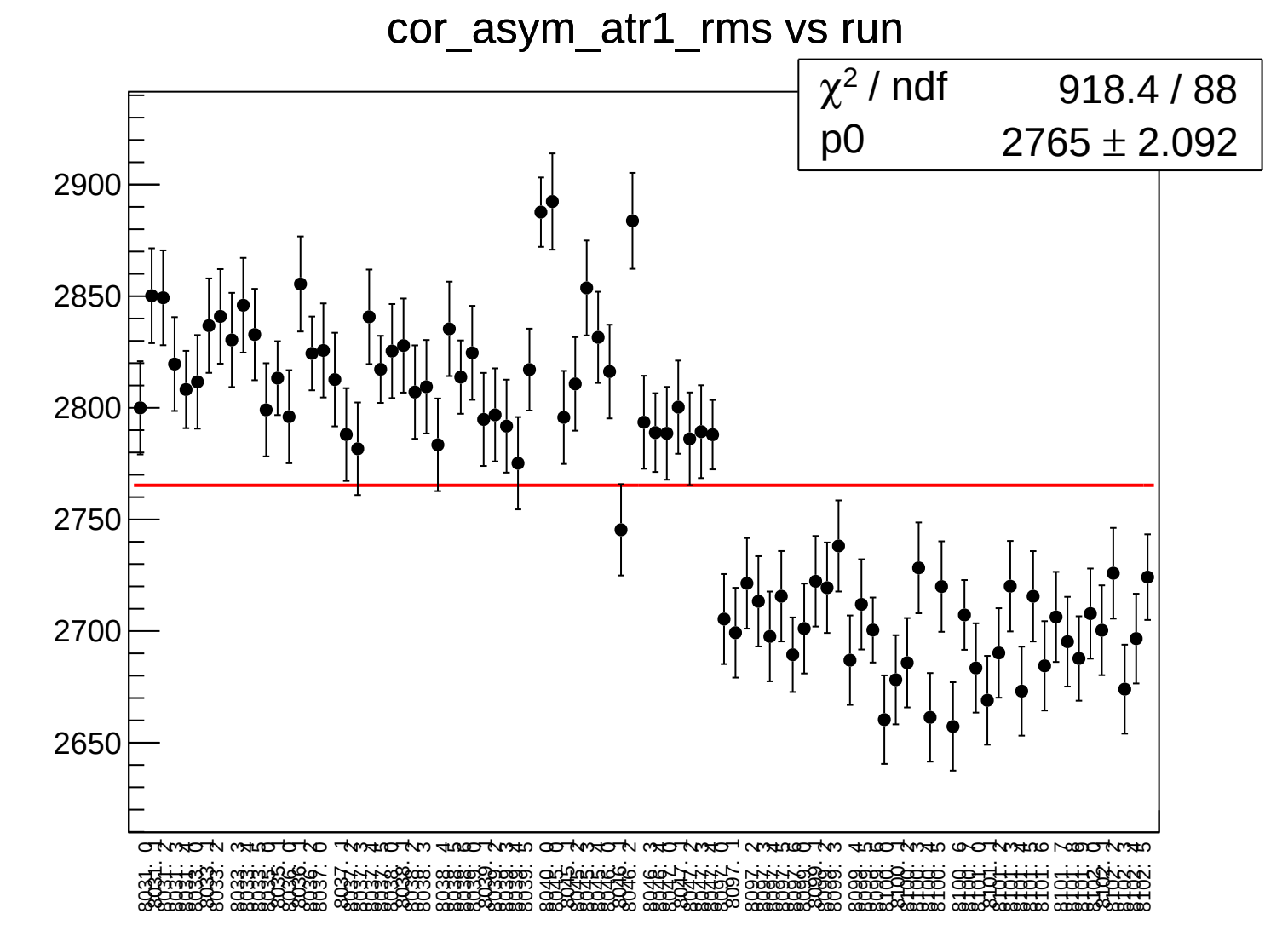

asym_atr1_reg_correction_mean vs run
χ² / ndf 99.61 / 88
p0 −302.9 ± 903.6
80000
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 23.31
Std Dev 0
3
2
1
0
−1
−2

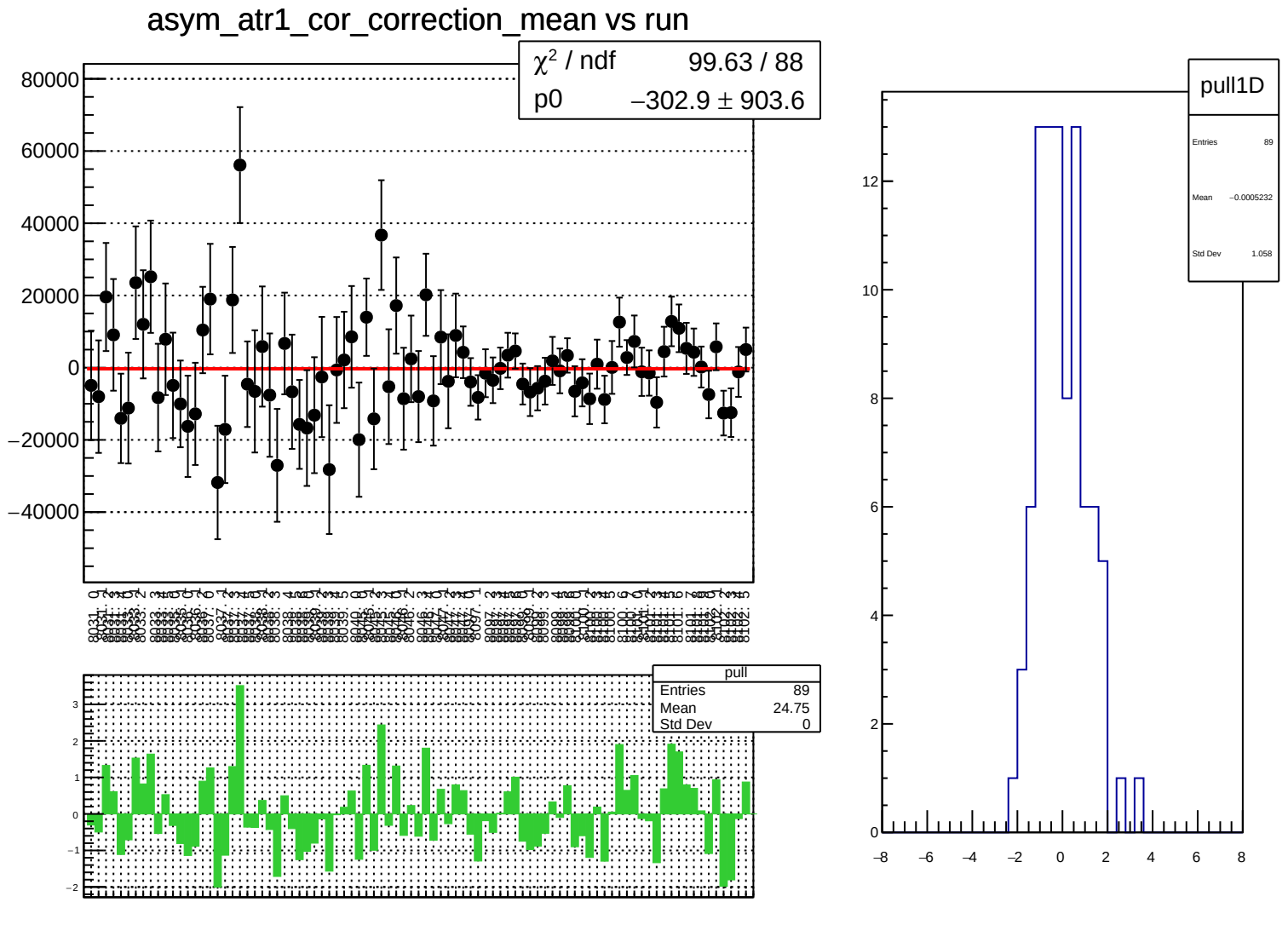

pull1D
Entries 89
Mean −0.0004962
Std Dev 1.058
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

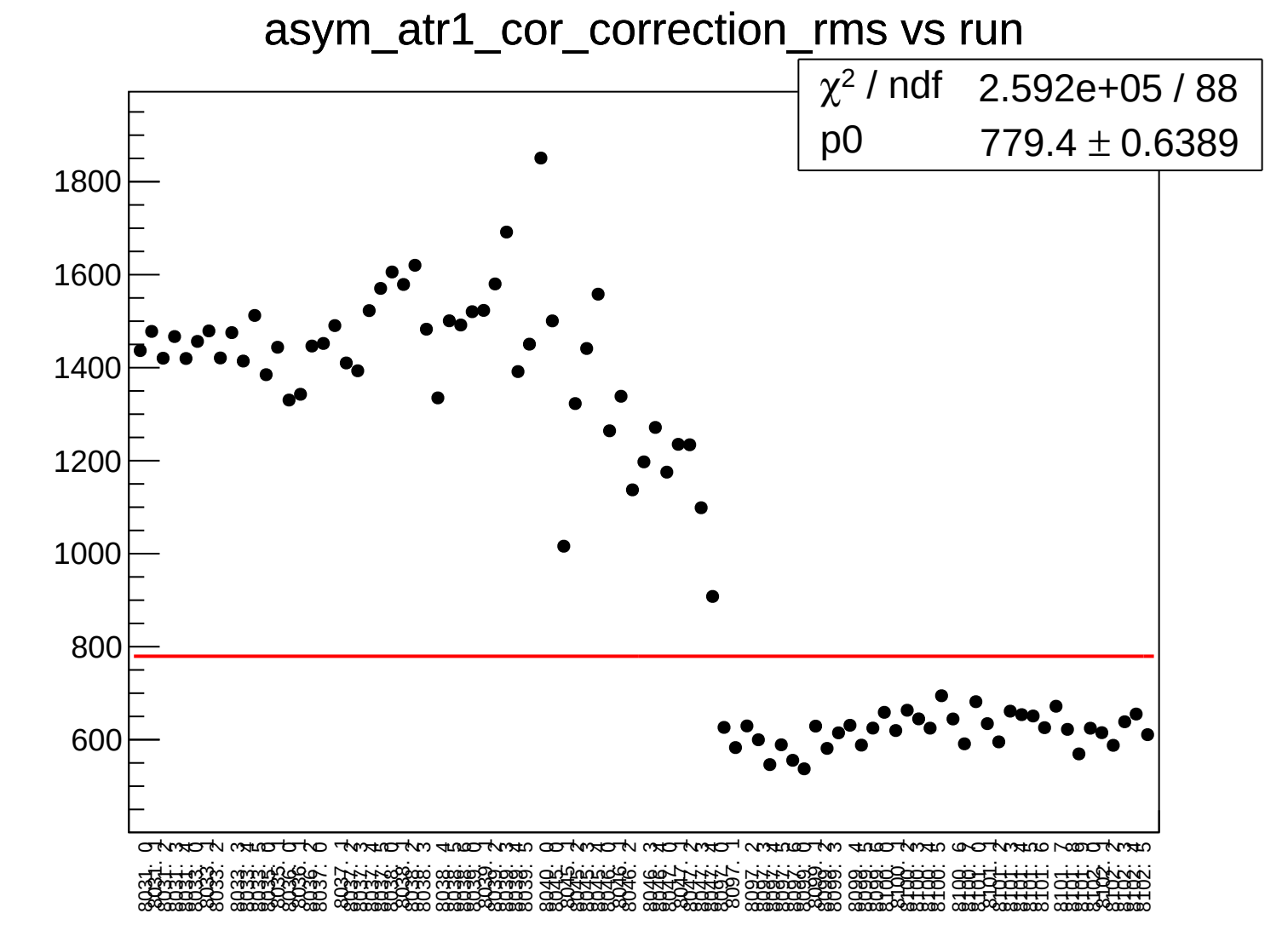

asym_atr1_reg_correction_rms vs run
χ² / ndf 2.592e+05 / 88
p0 779.4 ± 0.6389
1800
1600
1400
1200
1000
800
600

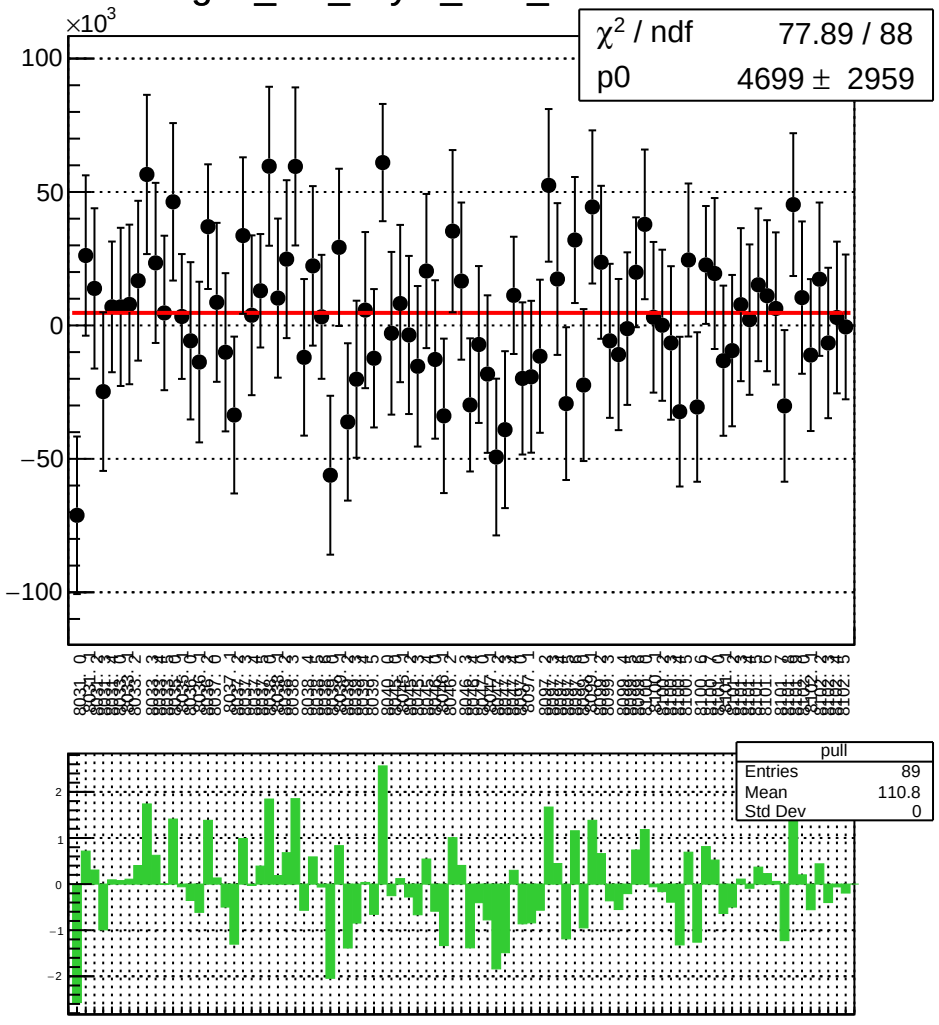

cor_asym_atr1_mean vs run
×10^3
χ^2 / ndf 77.89 / 88
p0 4699 ± 2959
100
50
0
−50
−100
pull
Entries 89
Mean 110.8
Std Dev 0
2
1
0
−1
−2

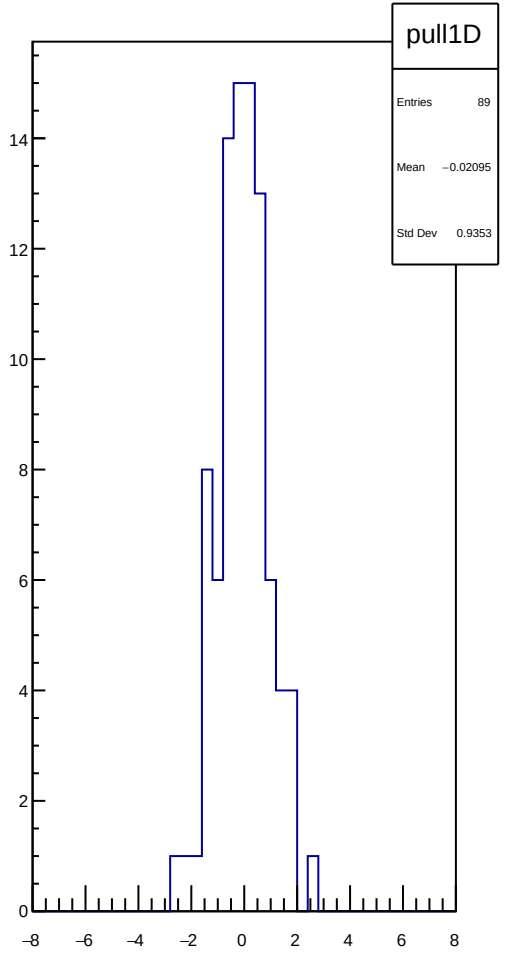

pull1D
Entries 89
Mean −0.02095
Std Dev 0.9353
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

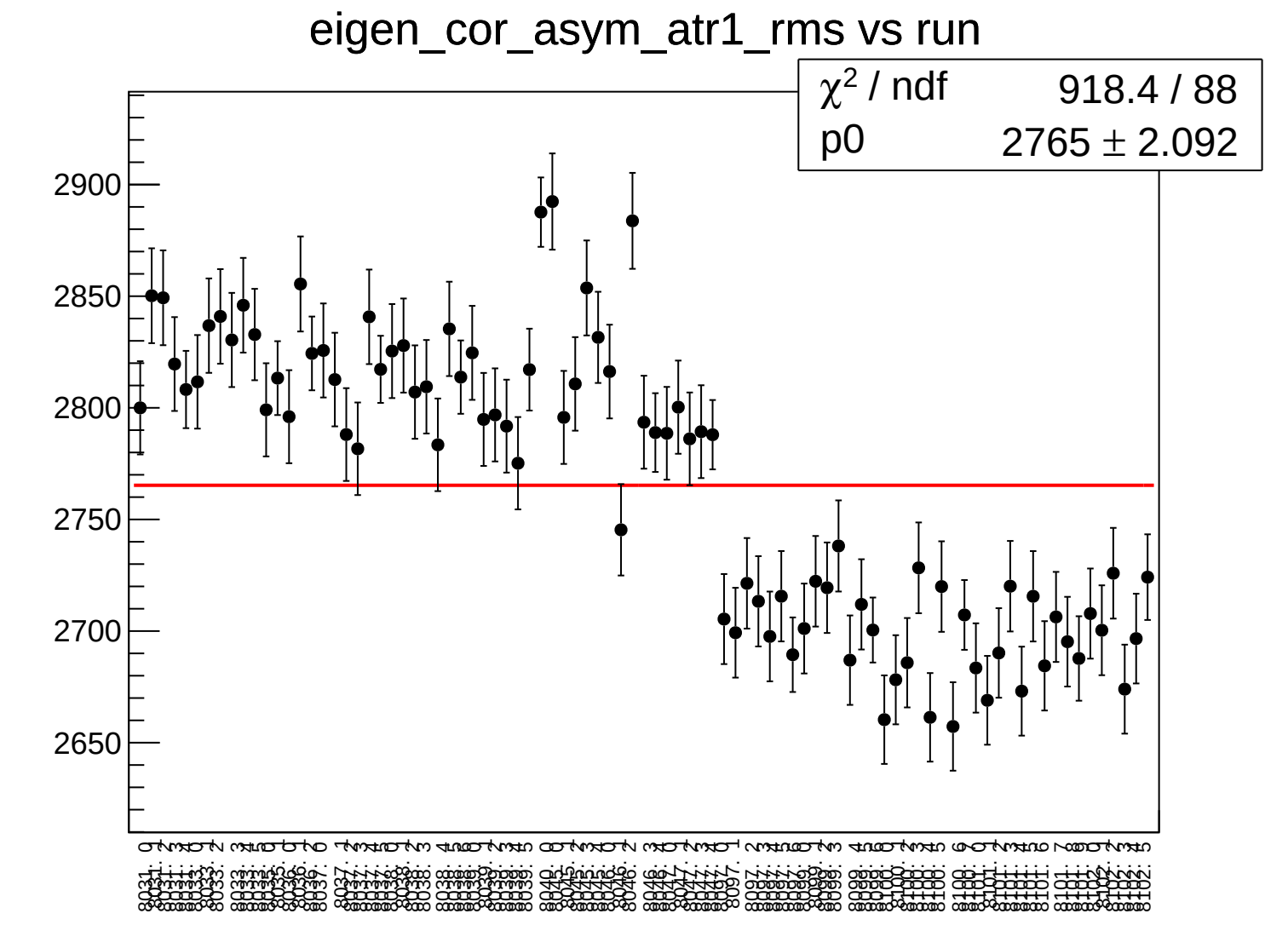

cor_asym_atr1_rms vs run
χ² / ndf 918.4 / 88
p0 2765 ± 2.092
2900
2850
2800
2750
2700
2650

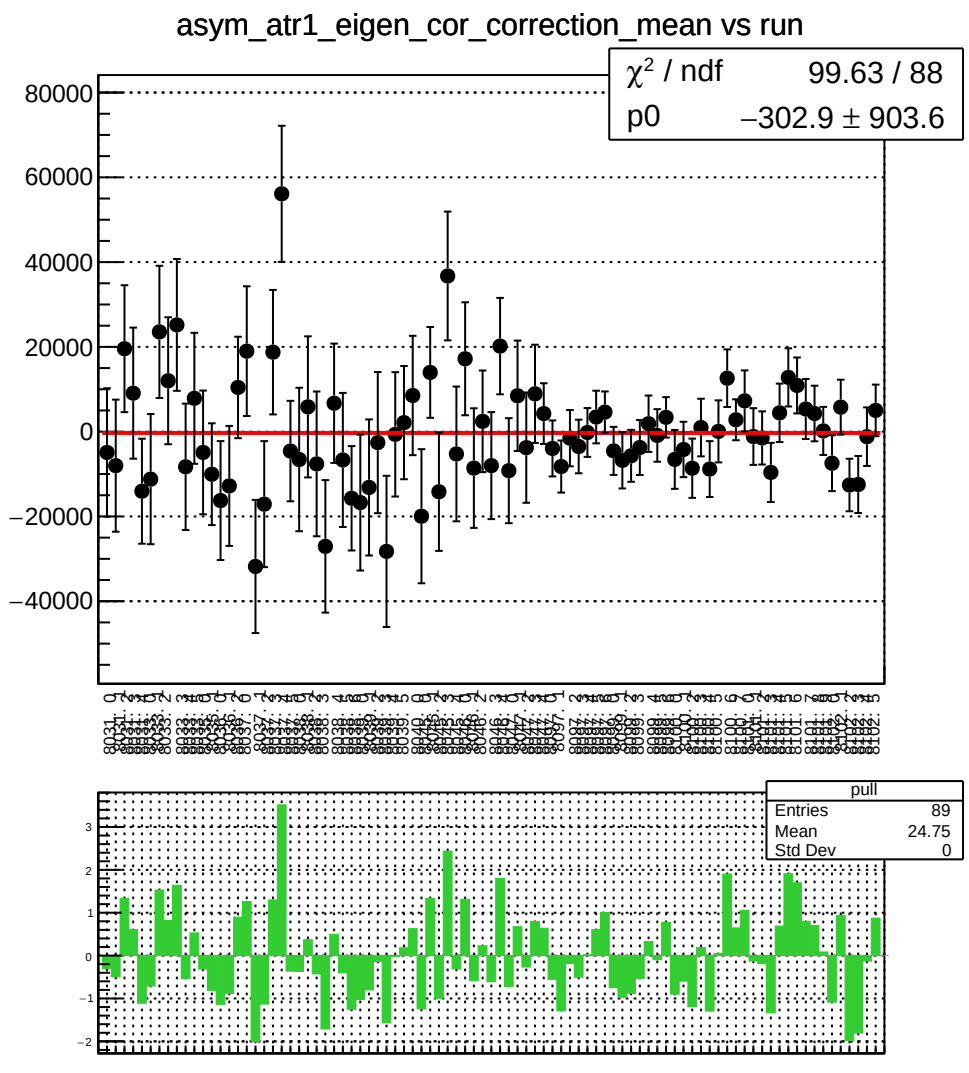

asym_atr1_cor_correction_mean vs run
χ² / ndf 99.63 / 88
p0 −302.9 ± 903.6
80000
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 24.75
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.0005232
Std Dev 1.058
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

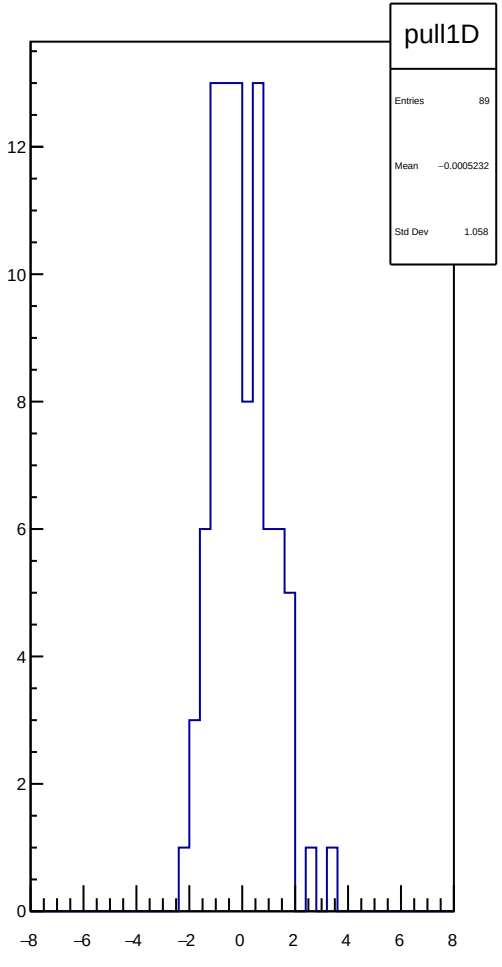

asym_atr1_cor_correction_rms vs run
χ² / ndf 2.592e+05 / 88
p0 779.4 ± 0.6389
1800
1600
1400
1200
1000
800
600

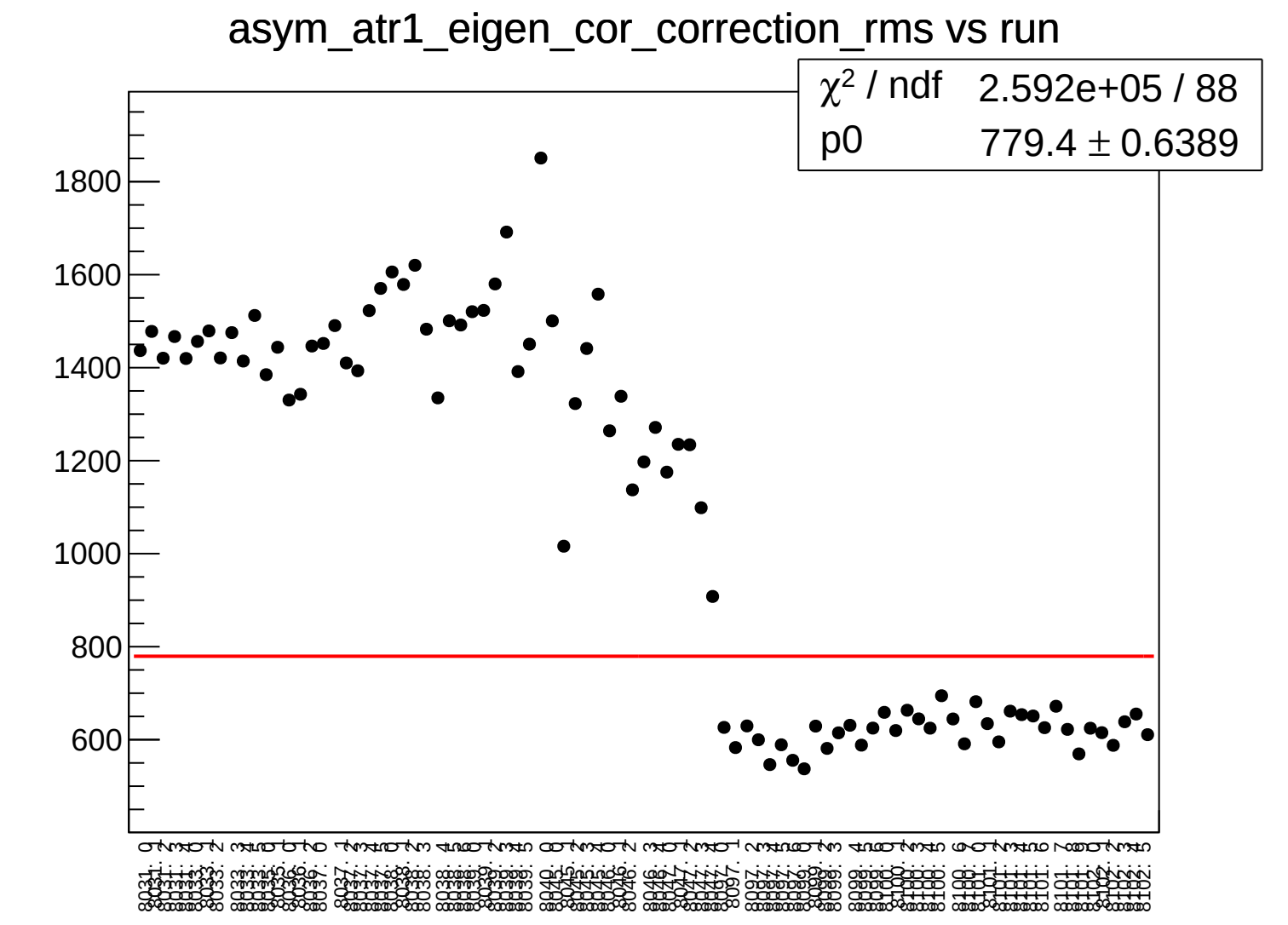

eigen_cor_asym_atr1_mean vs run
×10^3
χ^2 / ndf 77.89 / 88
p0 4699 ± 2959
100
50
0
−50
−100
pull
Entries 89
Mean 110.8
Std Dev 0
2
1
0
−1
−2

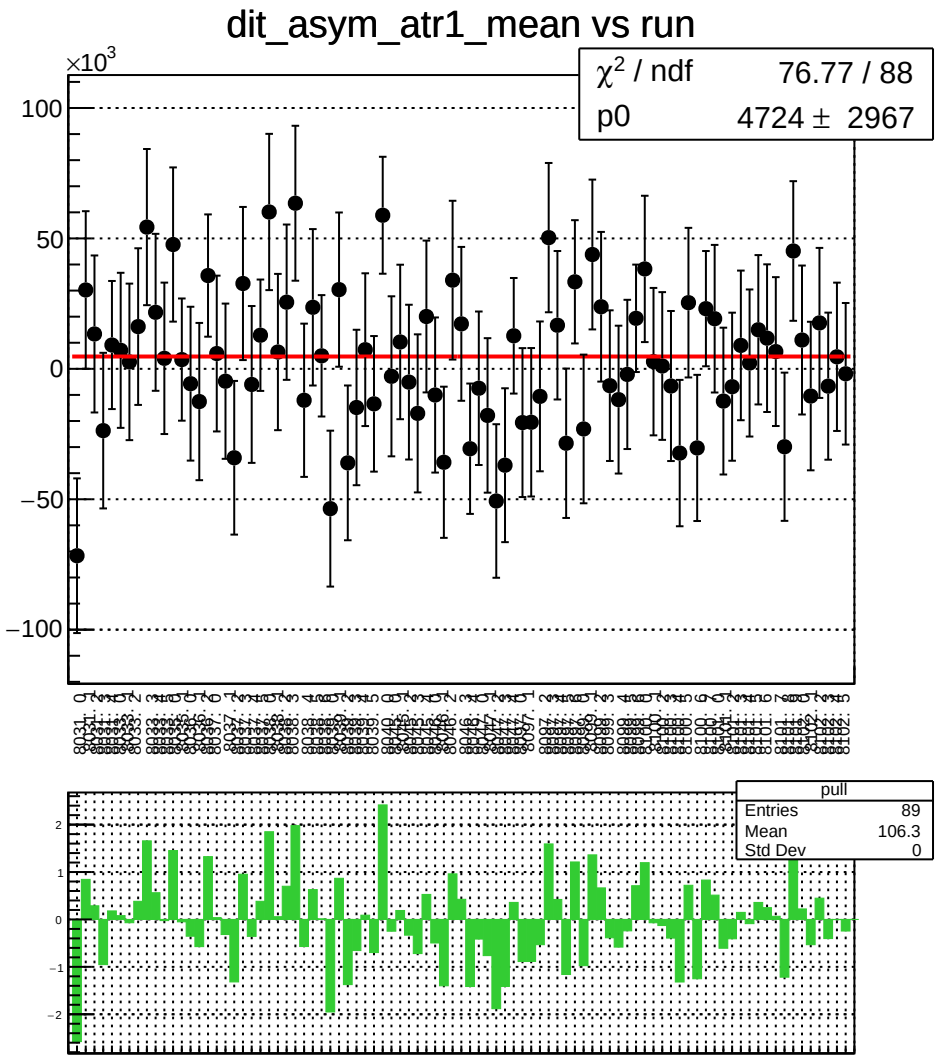

pull1D
Entries 89
Mean −0.02095
Std Dev 0.9353
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

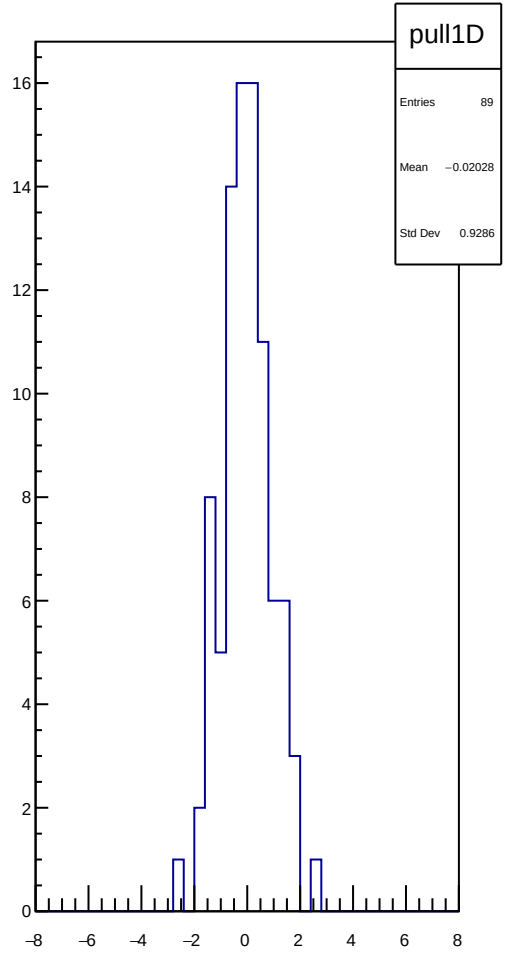

eigen_cor_asym_atr1_rms vs run
χ² / ndf 918.4 / 88
p0 2765 ± 2.092
2900
2850
2800
2750
2700
2650

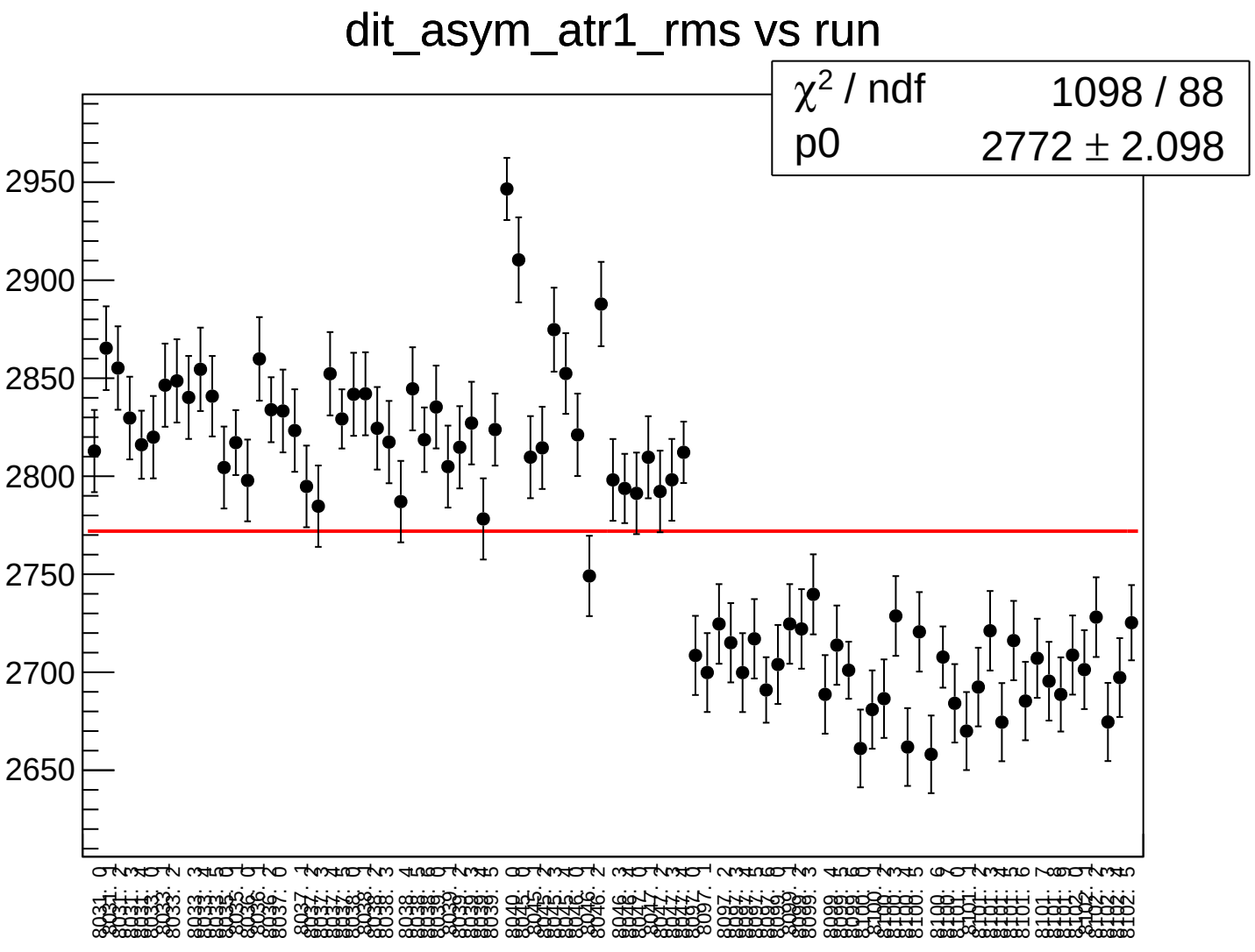

asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 99.63 / 88
p0 −302.9 ± 903.6
80000
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 24.75
Std Dev 0
3
2
1
0
−1
−2

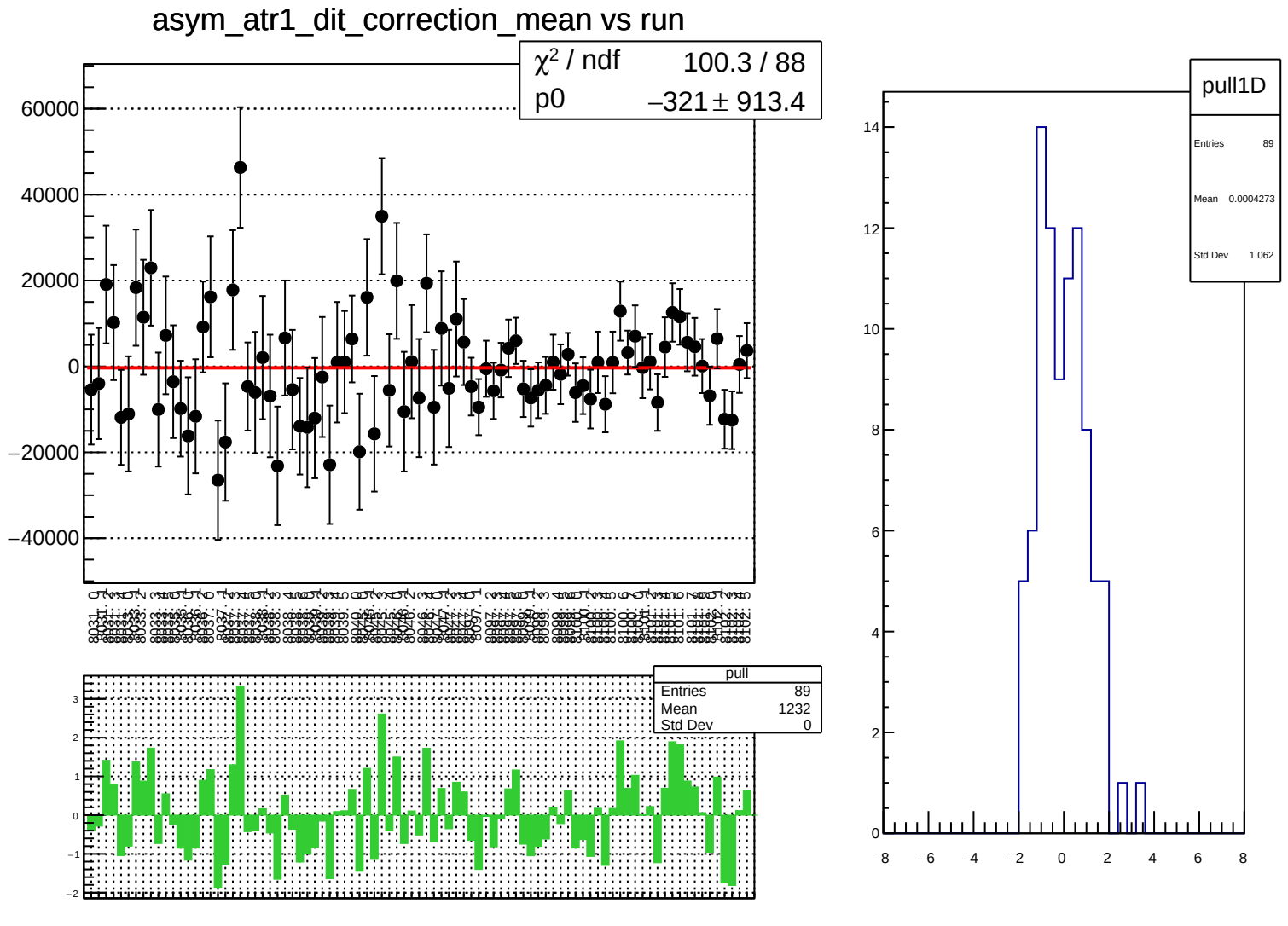

pull1D
Entries 89
Mean −0.0005232
Std Dev 1.058
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

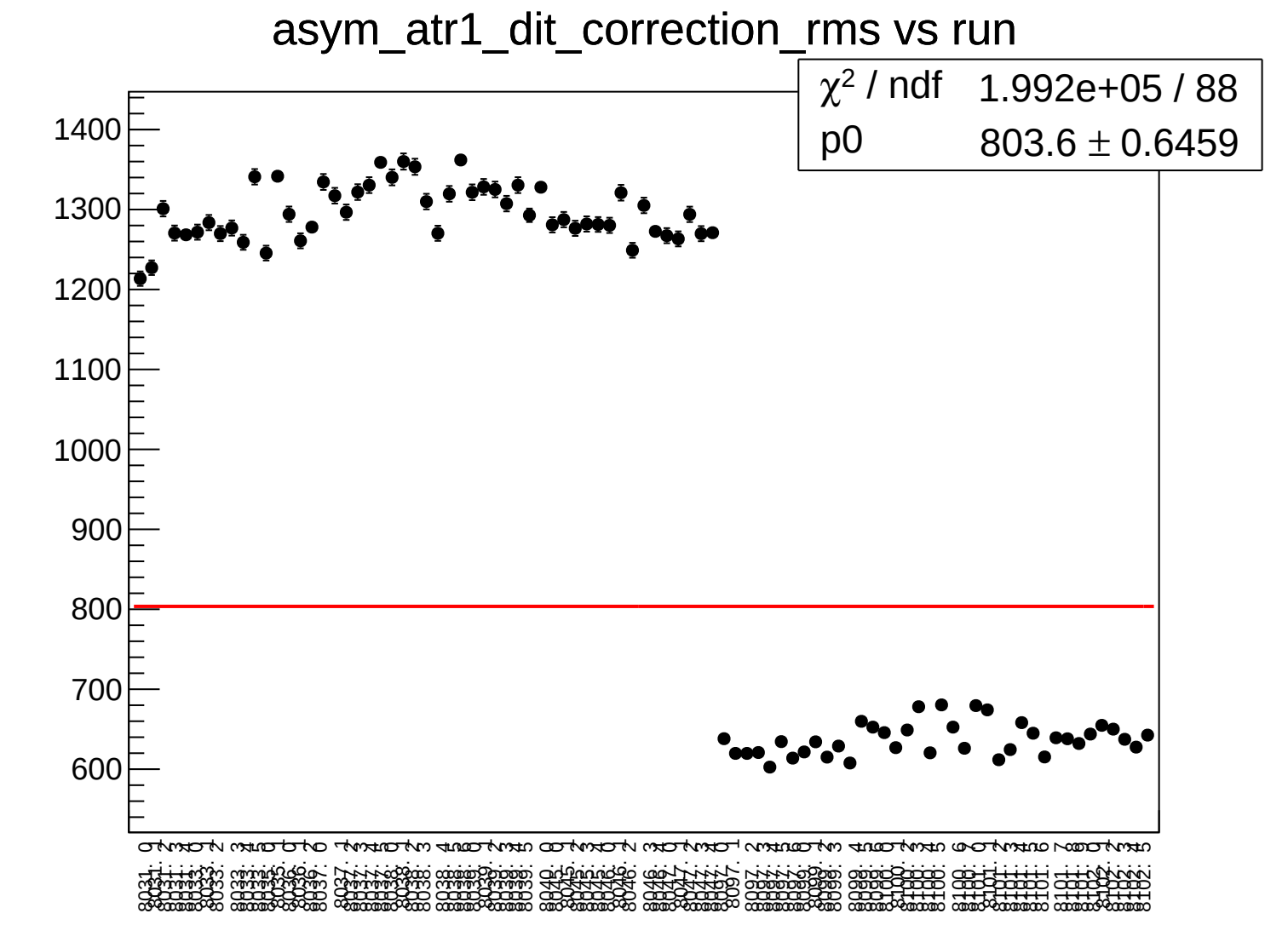

asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 2.592e+05 / 88
p0 779.4 ± 0.6389
1800
1600
1400
1200
1000
800
600

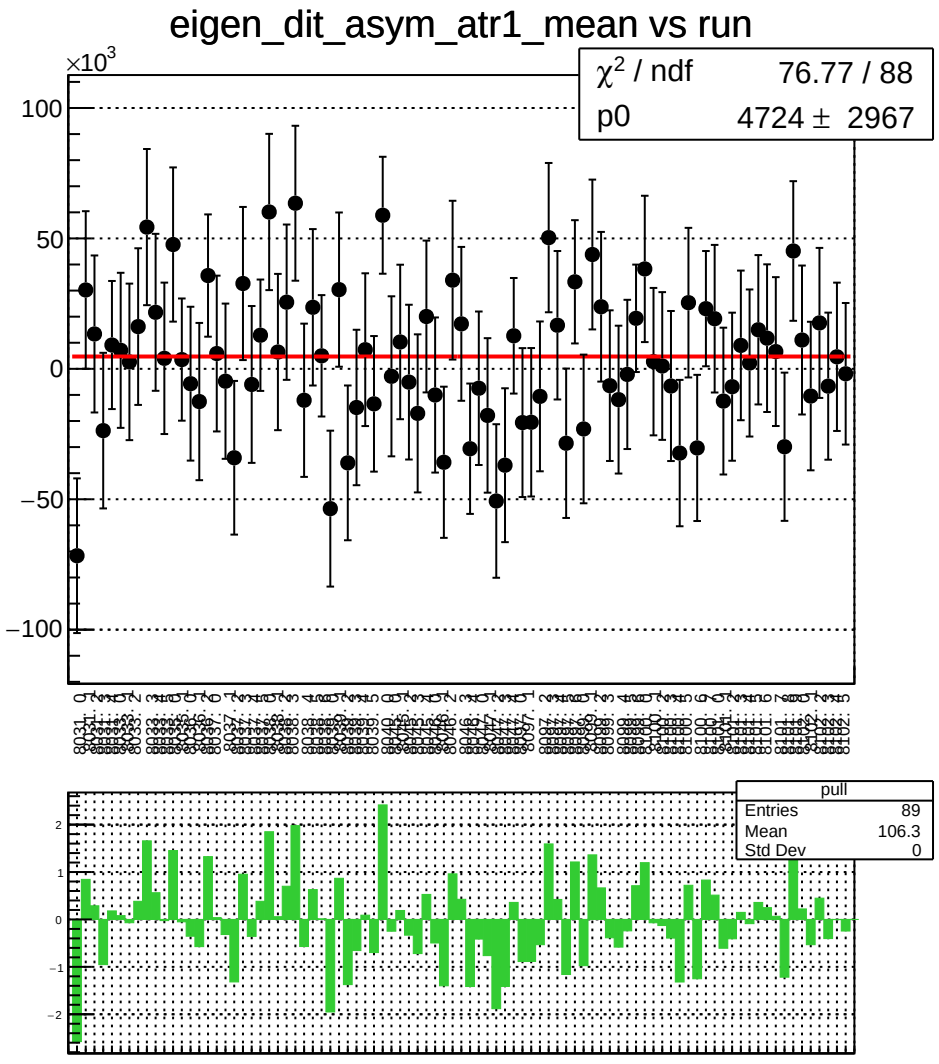

dit_asym_atr1_mean vs run
×10^3
χ^2 / ndf 76.77 / 88
p0 4724 ± 2967
100
50
0
−50
−100
pull
Entries 89
Mean 106.3
Std Dev 0
2
1
0
−1
−2

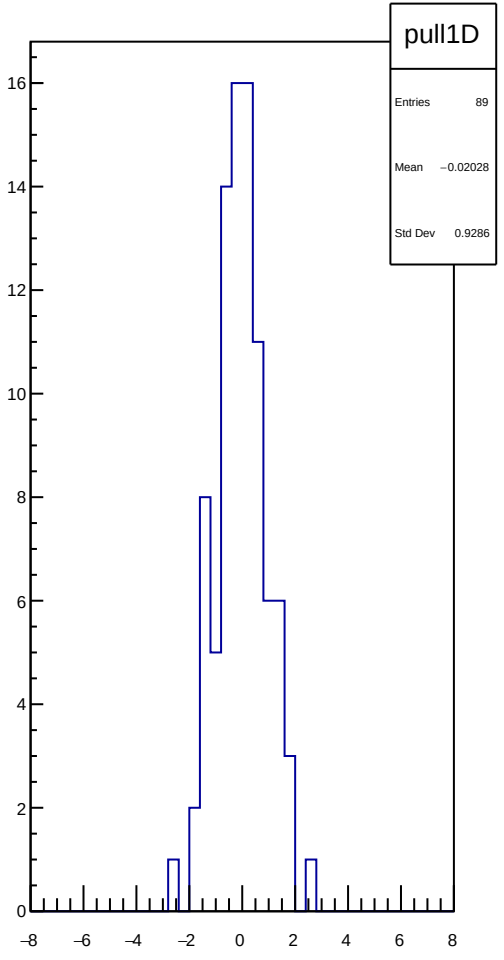

pull1D
Entries 89
Mean −0.02028
Std Dev 0.9286
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

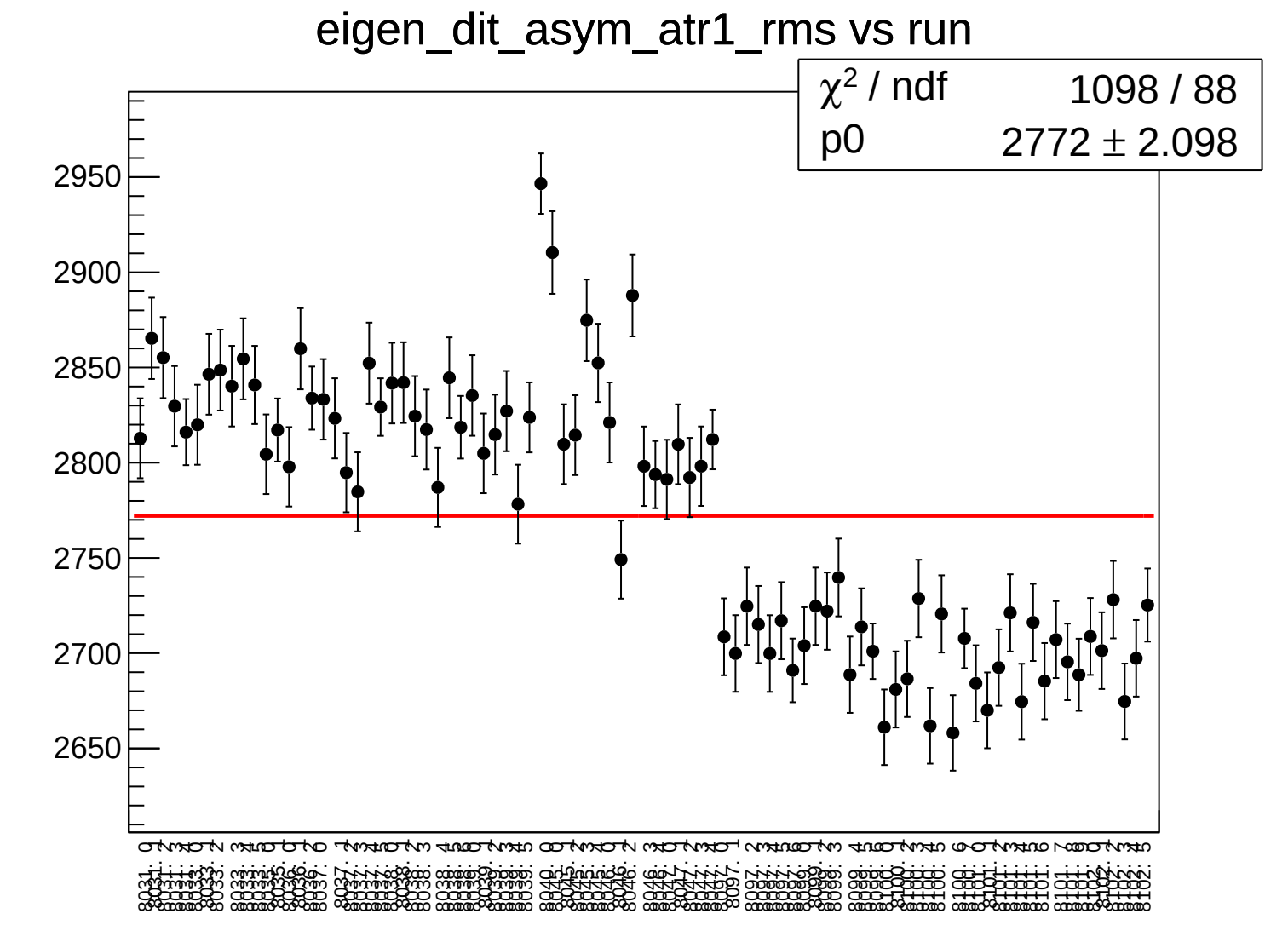

dit_asym_atr1_rms vs run
χ² / ndf 1098 / 88
p0 2772 ± 2.098
2950
2900
2850
2800
2750
2700
2650

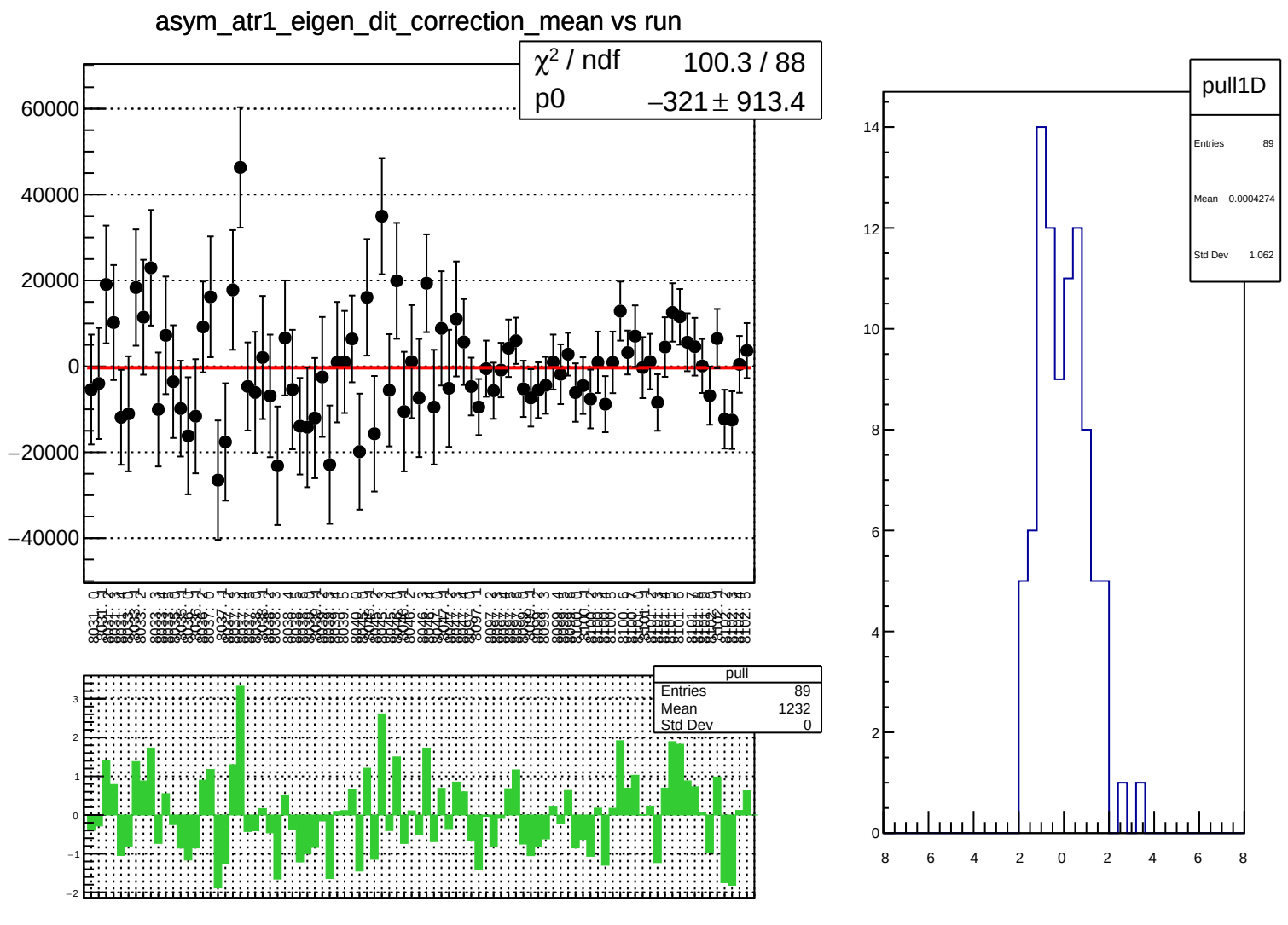

asym_atr1_dit_correction_mean vs run
χ² / ndf 100.3 / 88
p0 −321 ± 913.4
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 1232
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.0004273
Std Dev 1.062
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

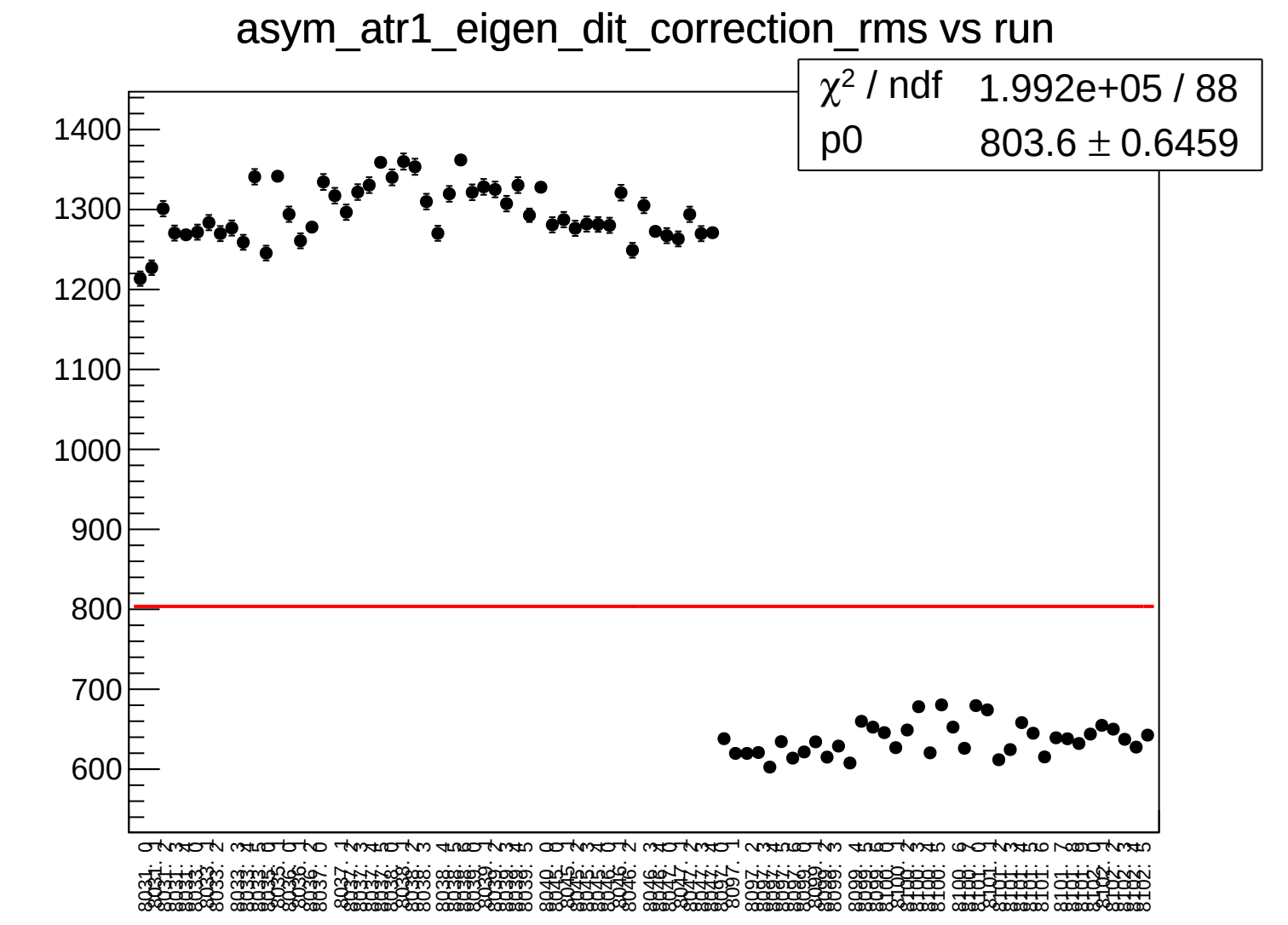

asym_atr1_dit_correction_rms vs run
χ² / ndf 1.992e+05 / 88
p0 803.6 ± 0.6459
1400
1300
1200
1100
1000
900
800
700
600

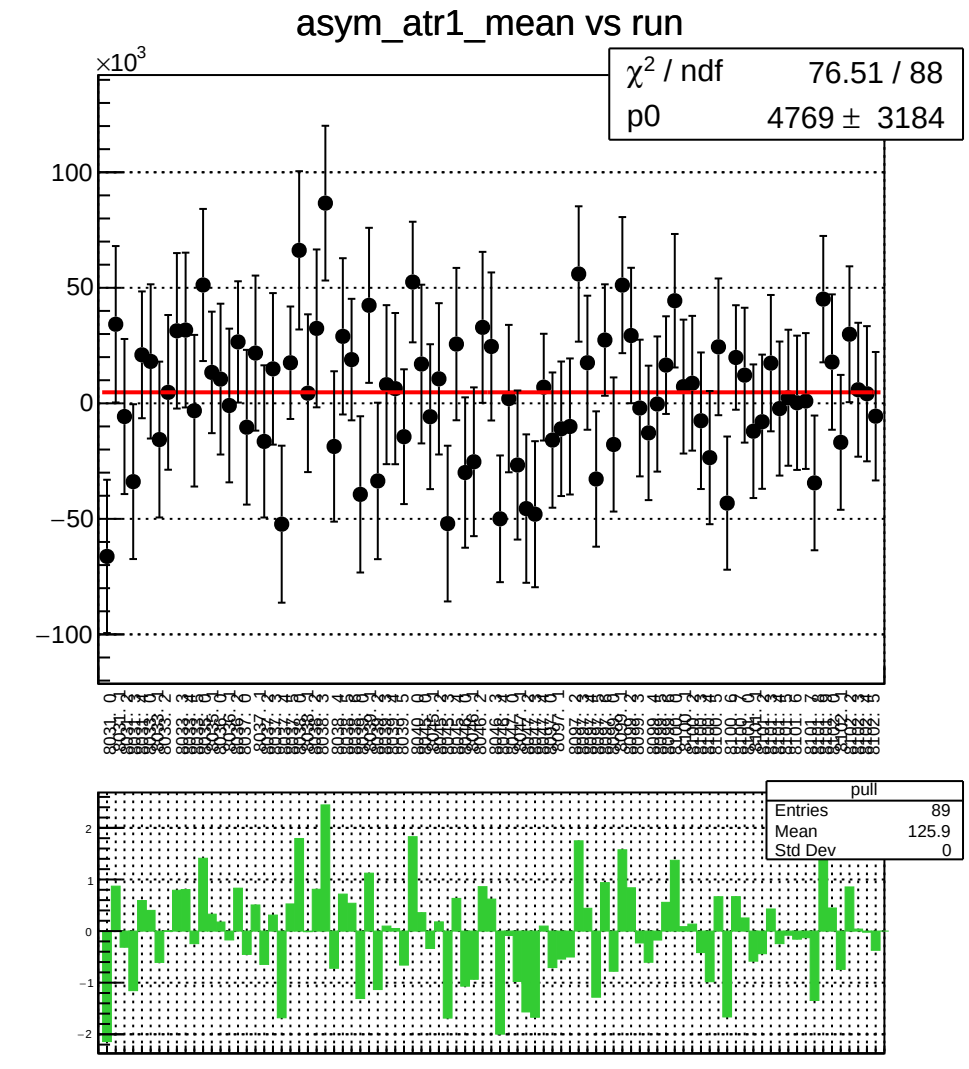

eigen_dit_asym_atr1_mean vs run
×10^3
χ^2 / ndf 76.77 / 88
p0 4724 ± 2967
pull
Entries 89
Mean 106.3
Std Dev 0

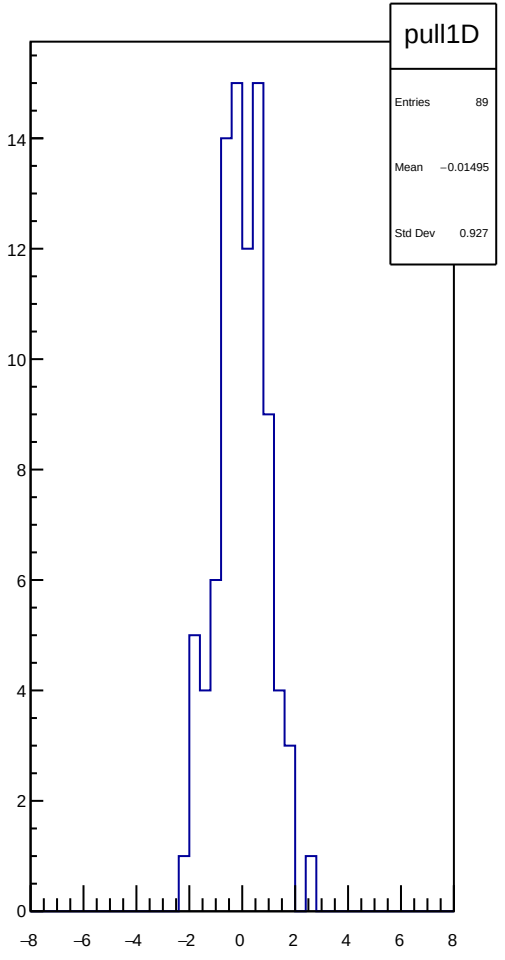

pull1D
Entries 89
Mean −0.02028
Std Dev 0.9286

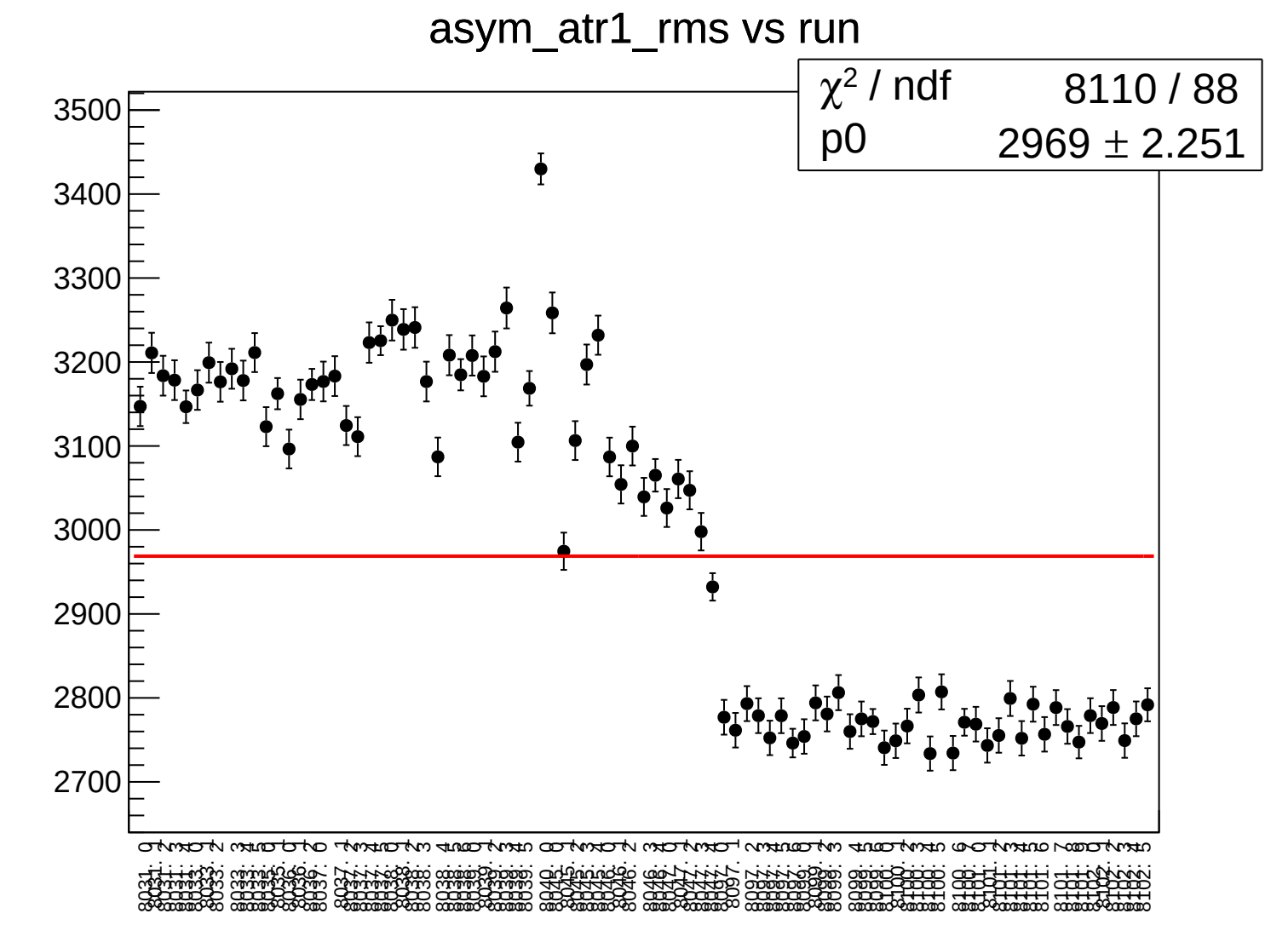

eigen_dit_asym_atr1_rms vs run
χ² / ndf 1098 / 88
p0 2772 ± 2.098
2950
2900
2850
2800
2750
2700
2650

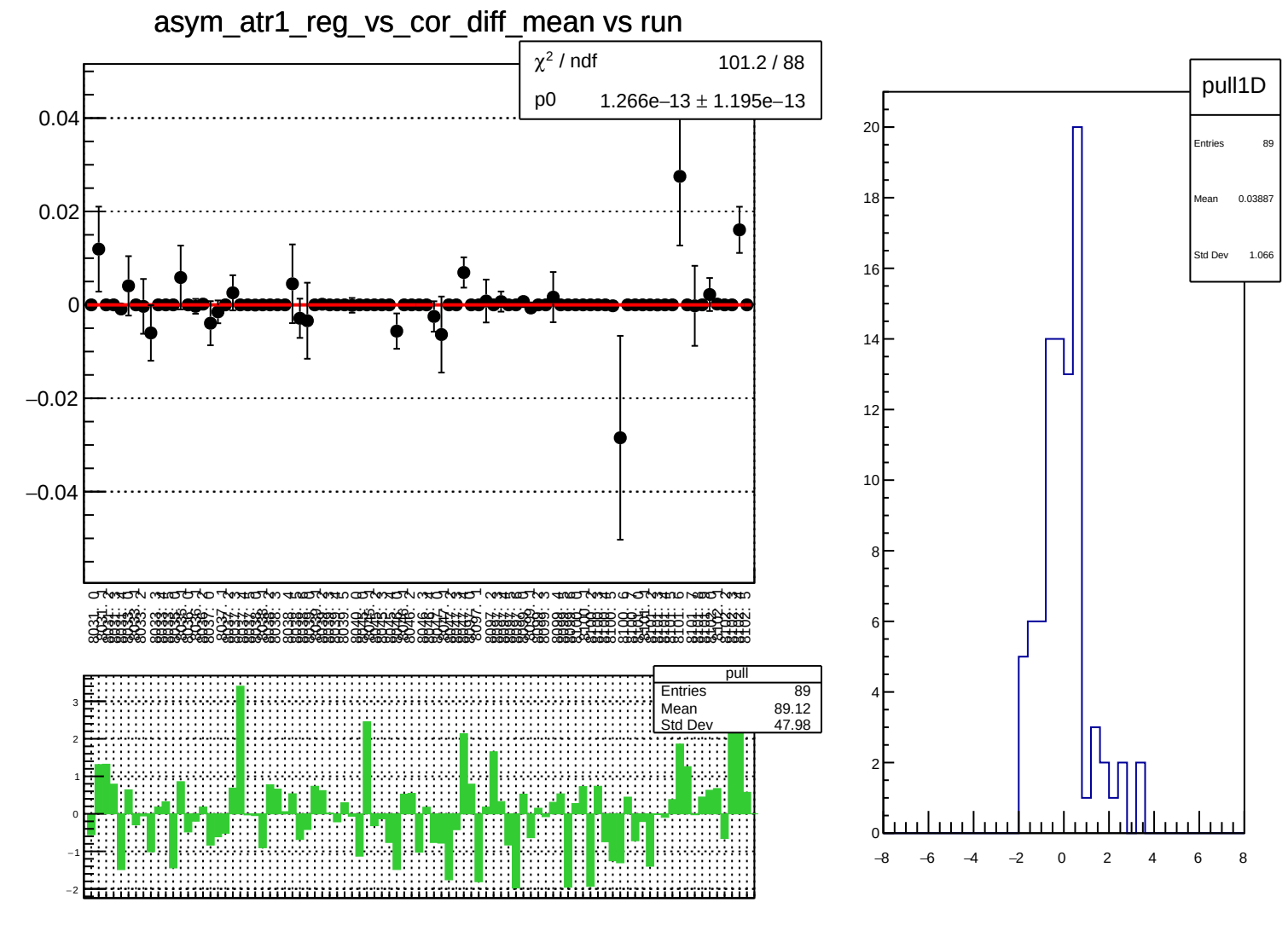

asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 100.3 / 88
p0 −321 ± 913.4
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 1232
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.0004274
Std Dev 1.062
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

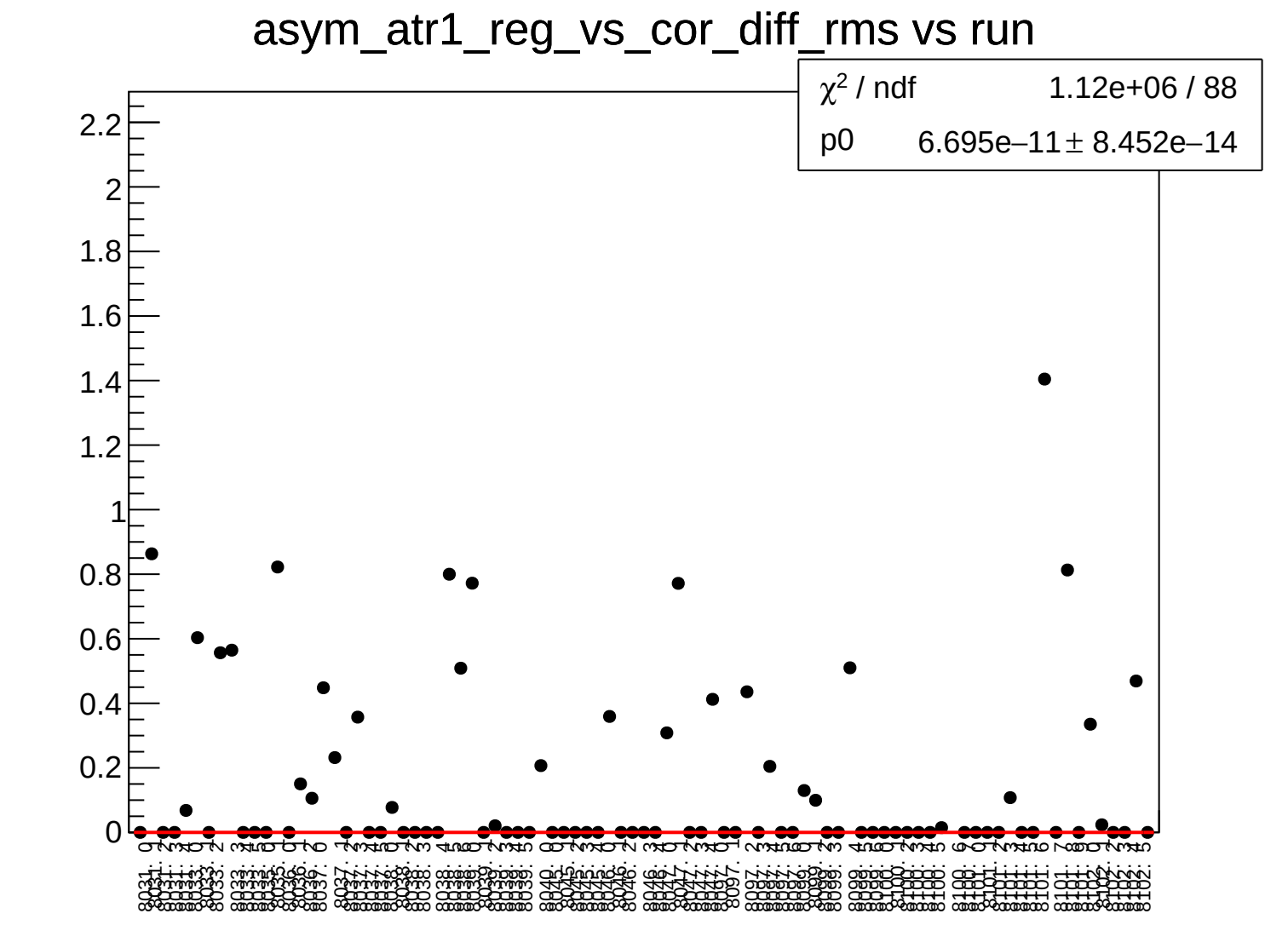

asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 1.992e+05 / 88
p0 803.6 ± 0.6459
1400
1300
1200
1100
1000
900
800
700
600

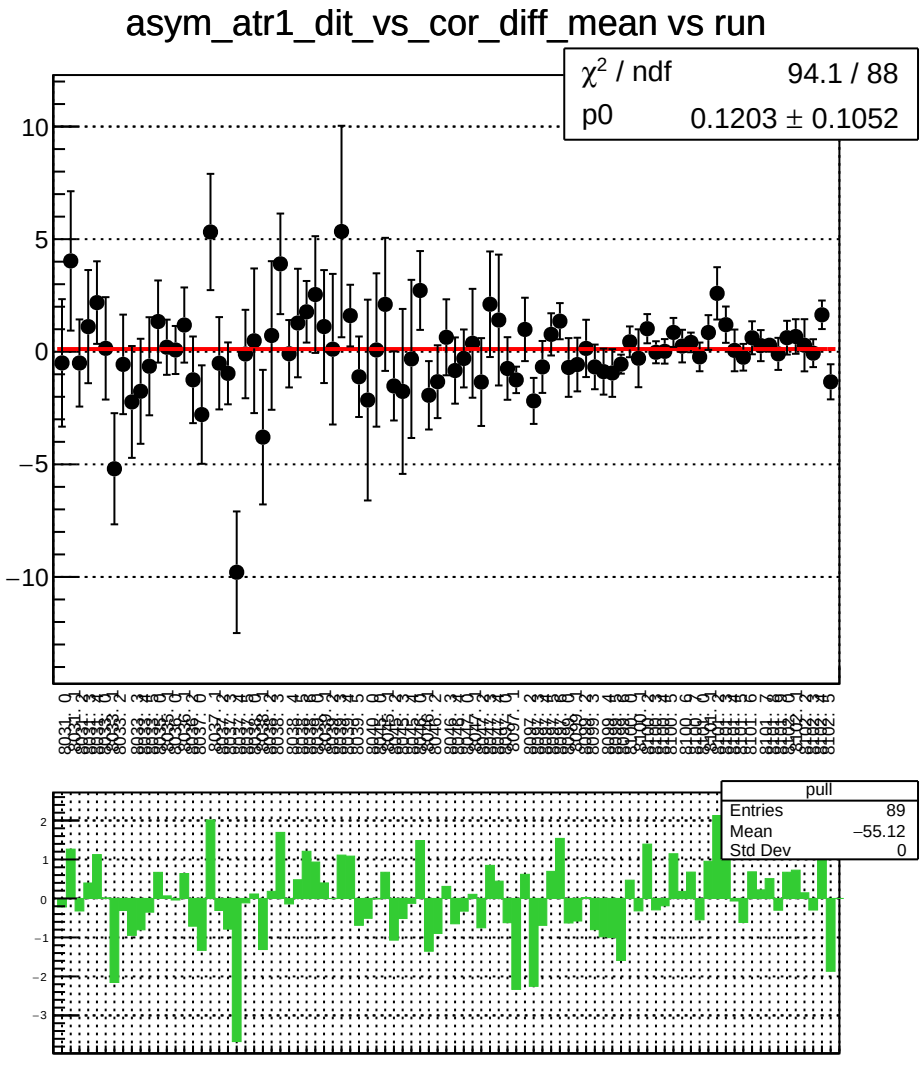

asym_atr1_mean vs run
×10^3
χ² / ndf 76.51 / 88
p0 4769 ± 3184
100
50
0
−50
−100
pull
Entries 89
Mean 125.9
Std Dev 0
2
1
0
−1
−2

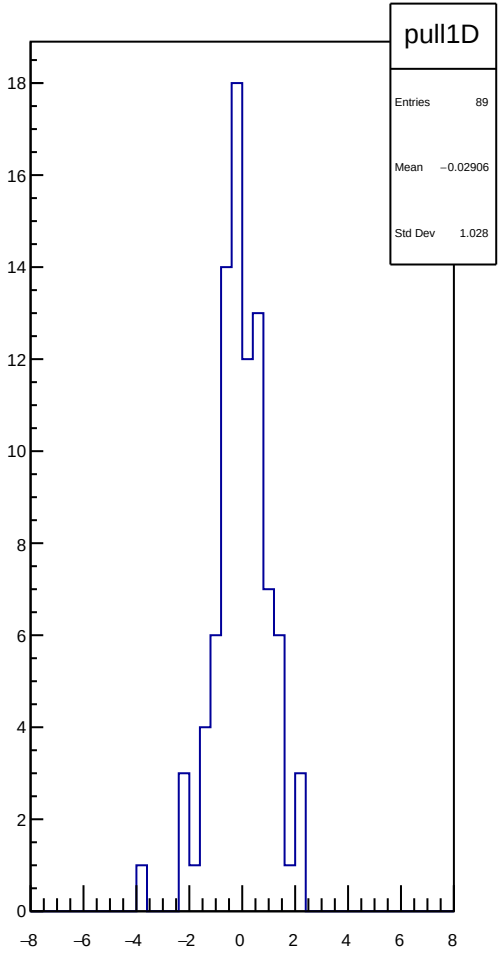

pull1D
Entries 89
Mean −0.01495
Std Dev 0.927
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

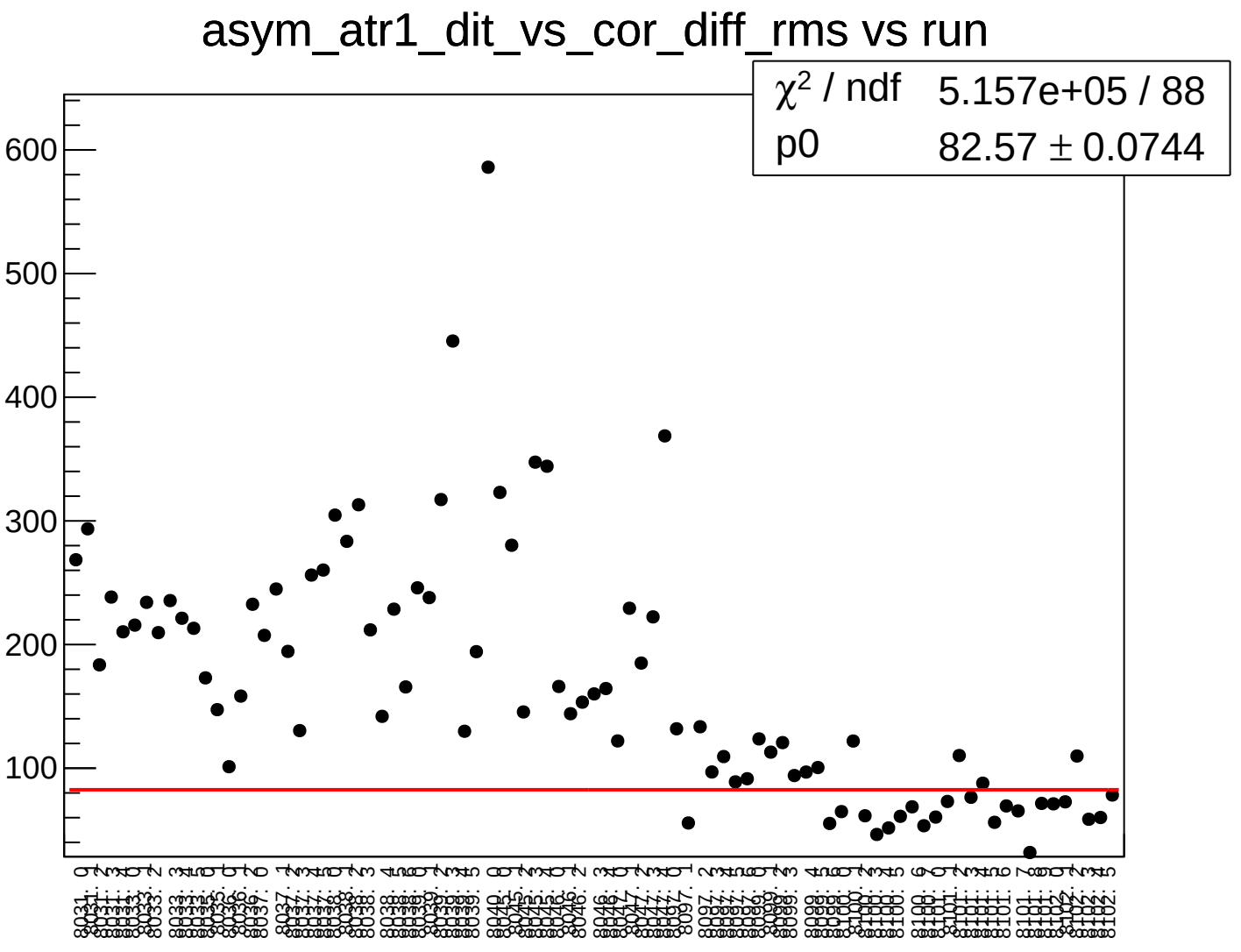

asym_atr1_rms vs run
χ² / ndf 8110 / 88
p0 2969 ± 2.251
3500
3400
3300
3200
3100
3000
2900
2800
2700

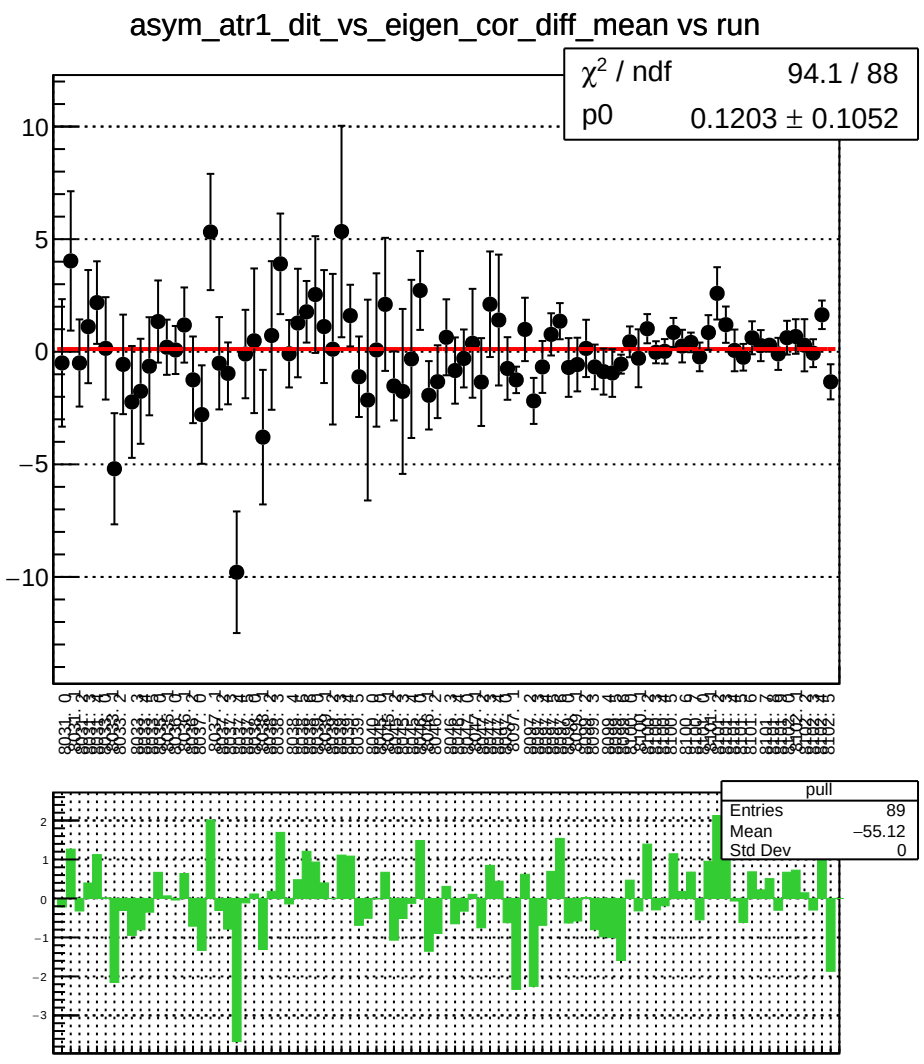

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 101.2 / 88
p0 1.266e−13 ± 1.195e−13
0.04
0.02
0
−0.02
−0.04
pull
Entries 89
Mean 89.12
Std Dev 47.98
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.03887
Std Dev 1.066
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

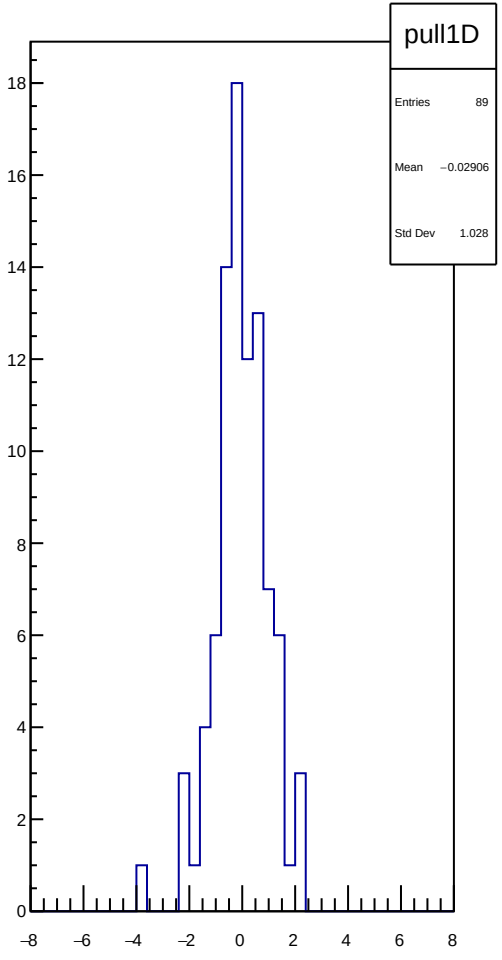

asym_atr1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.12e+06 / 88
p0 6.695e−11 ± 8.452e−14
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

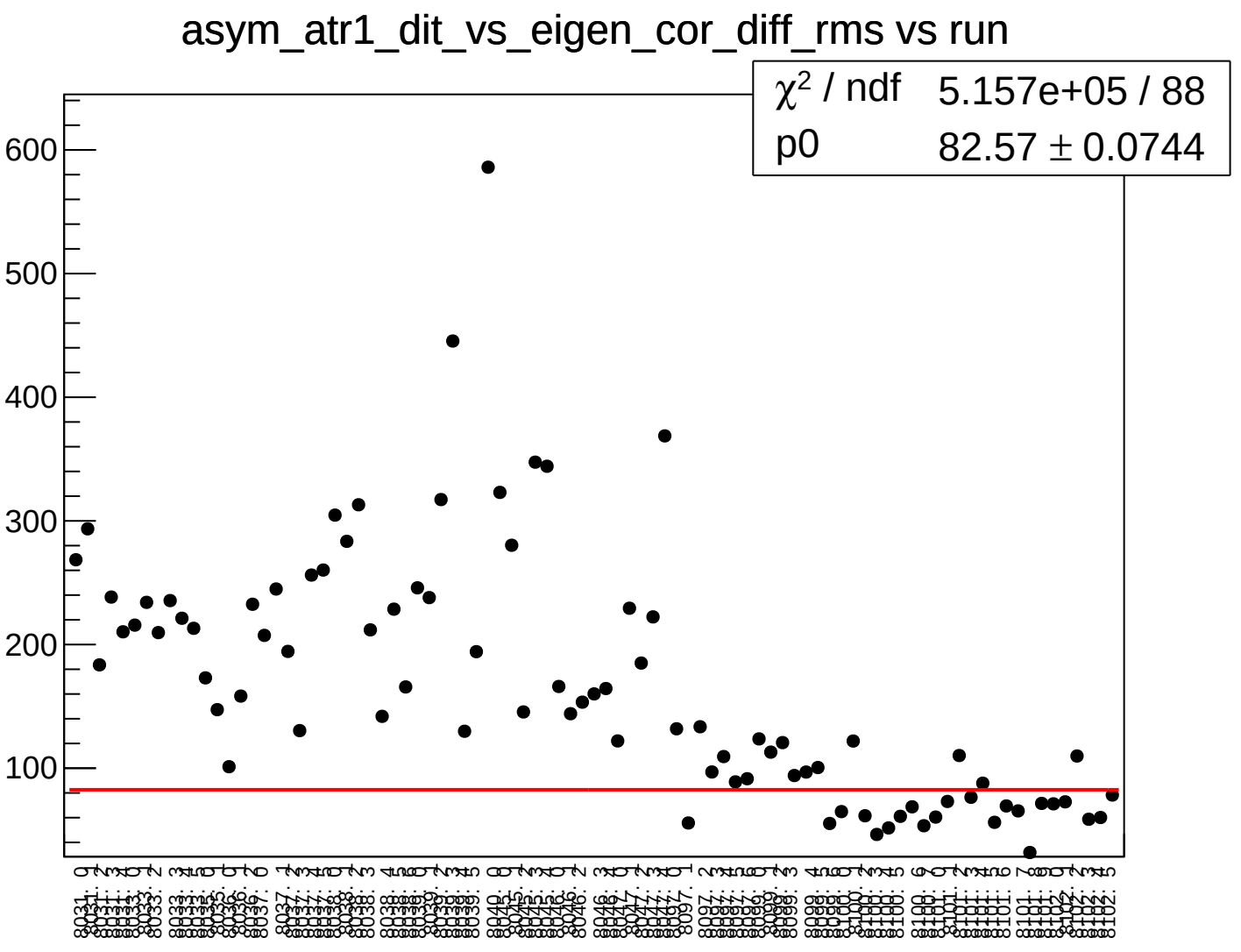

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 94.1 / 88
p0 0.1203 ± 0.1052
pull
Entries 89
Mean −55.12
Std Dev 0

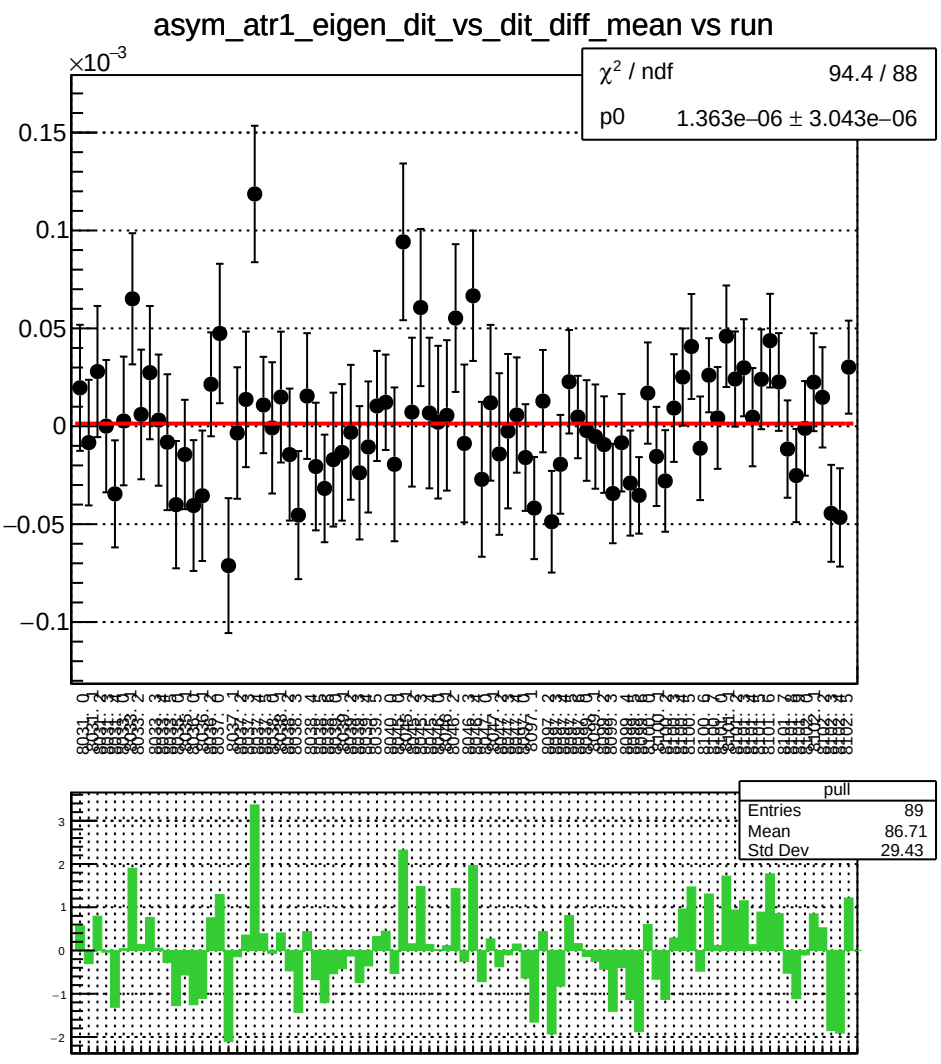

pull1D
Entries 89
Mean −0.02906
Std Dev 1.028

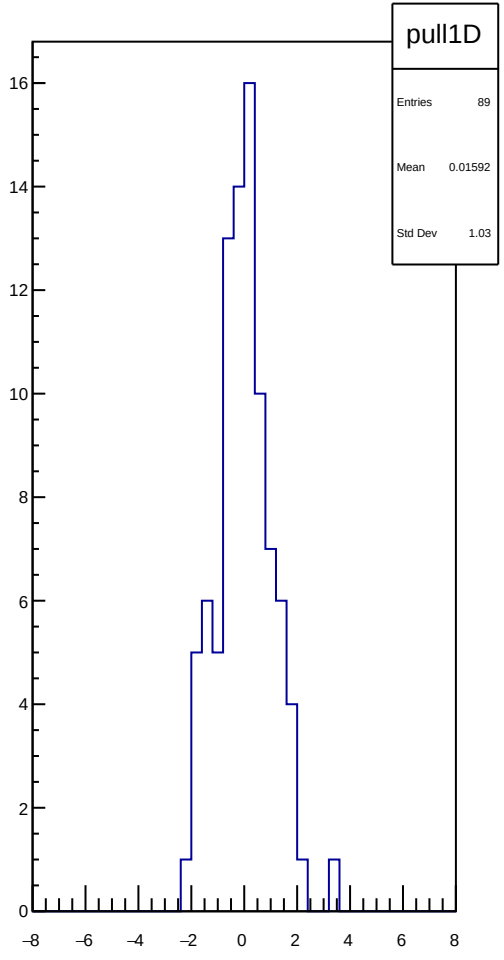

asym_atr1_dit_vs_cor_diff_rms vs run
χ² / ndf 5.157e+05 / 88
p0 82.57 ± 0.0744
600
500
400
300
200
100

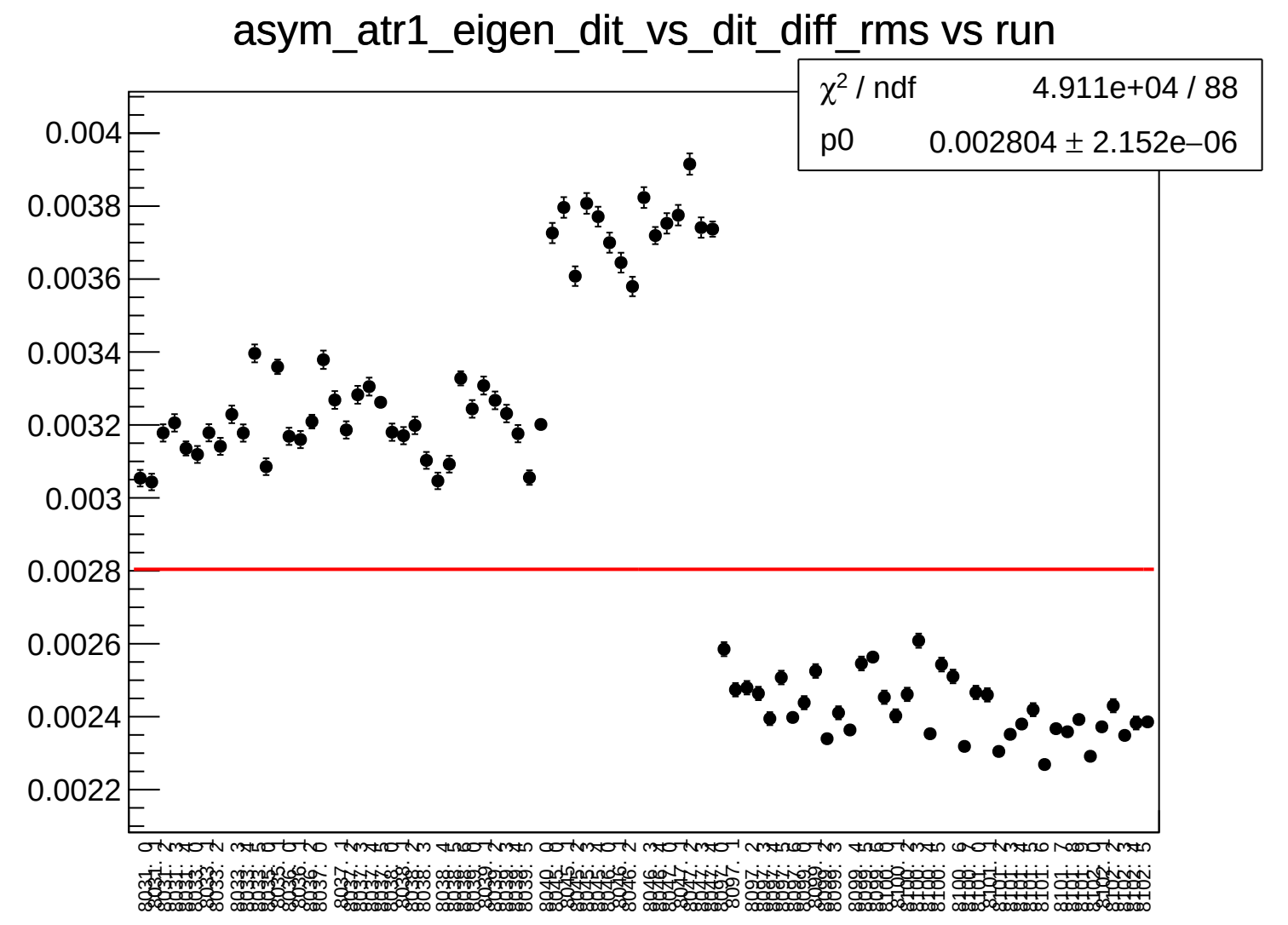

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.1 / 88
p0 0.1203 ± 0.1052
pull
Entries 89
Mean −55.12
Std Dev 0

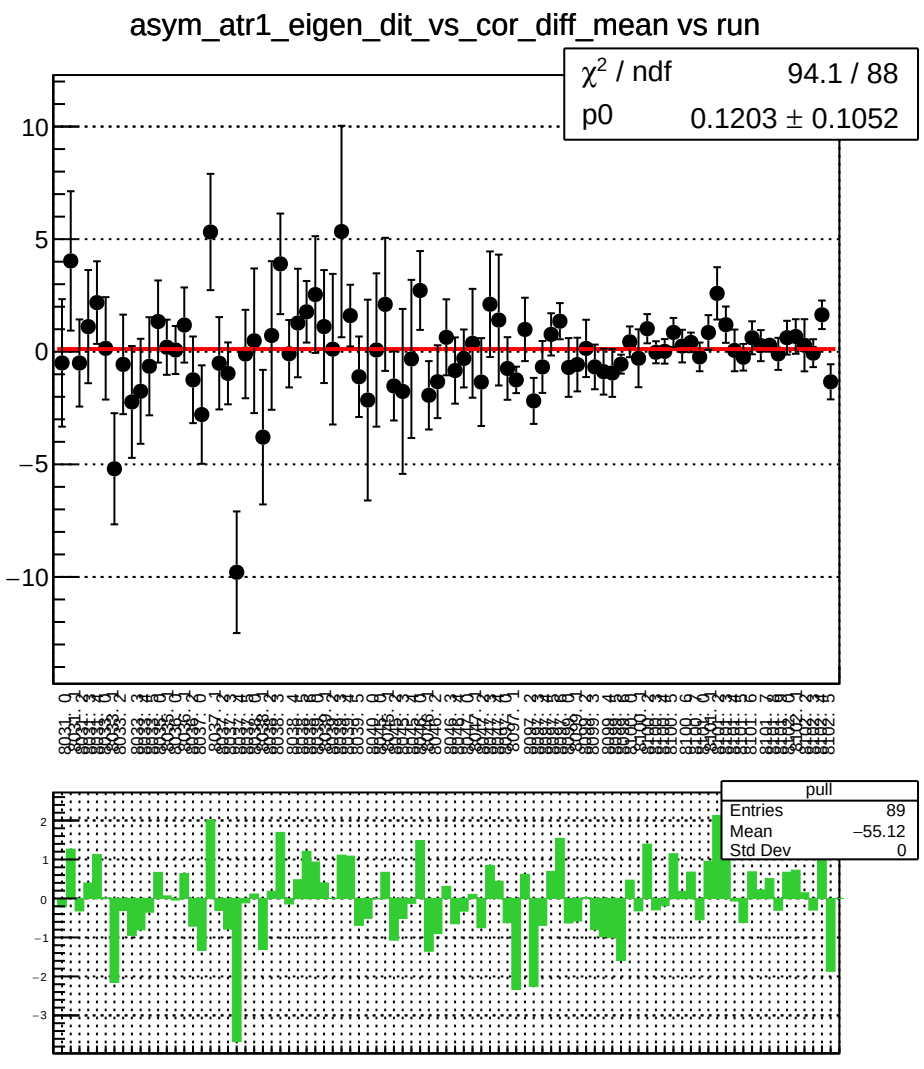

pull1D
Entries 89
Mean −0.02906
Std Dev 1.028

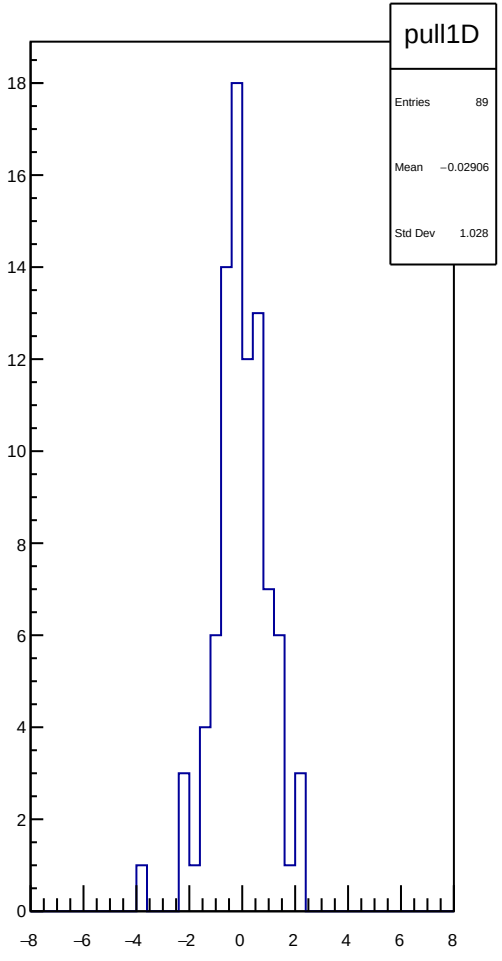

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.157e+05 / 88
p0 82.57 ± 0.0744
600
500
400
300
200
100

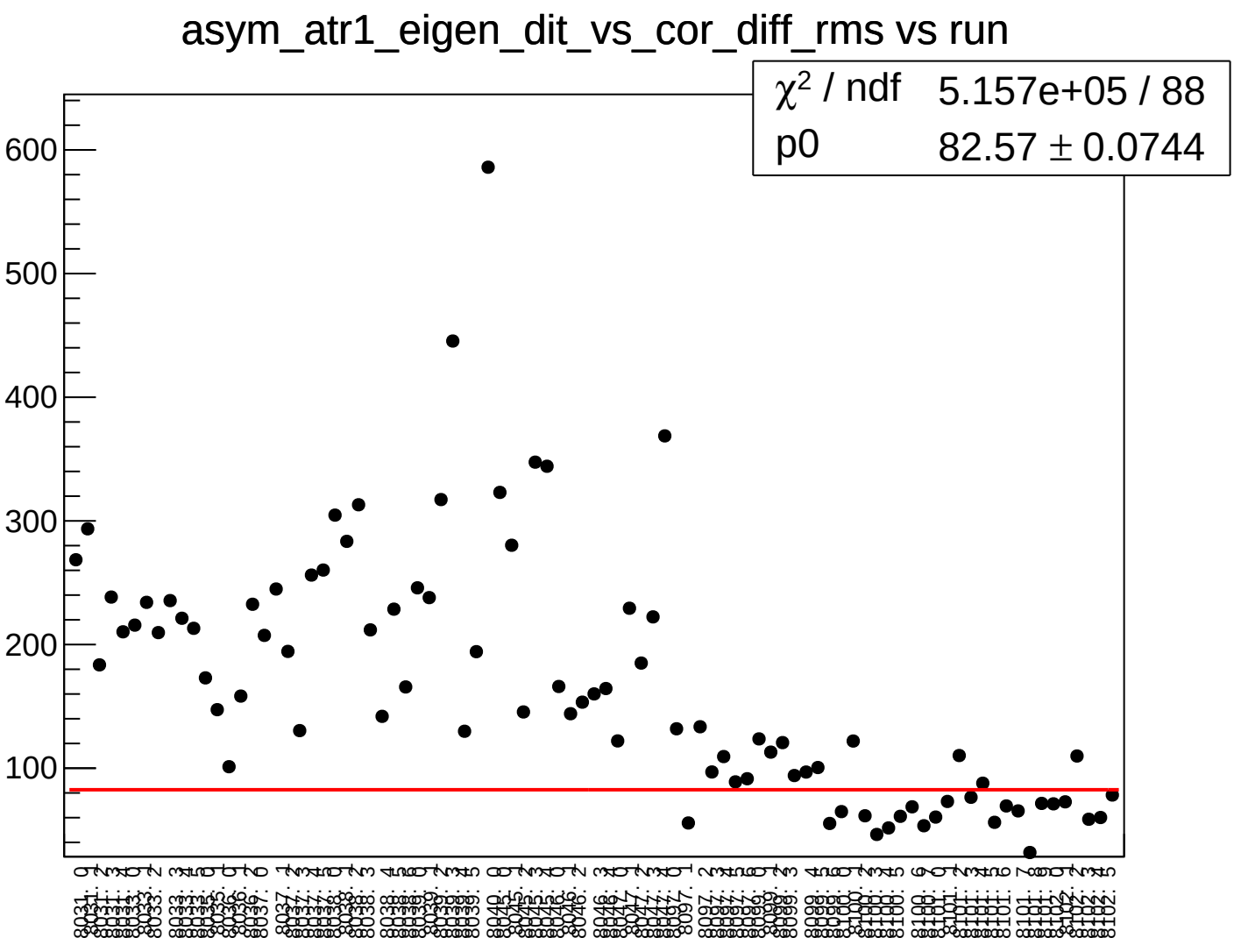

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.4 / 88
p0 1.363e−06 ± 3.043e−06
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 89
Mean 86.71
Std Dev 29.43
3
2
1
0
−1
−2

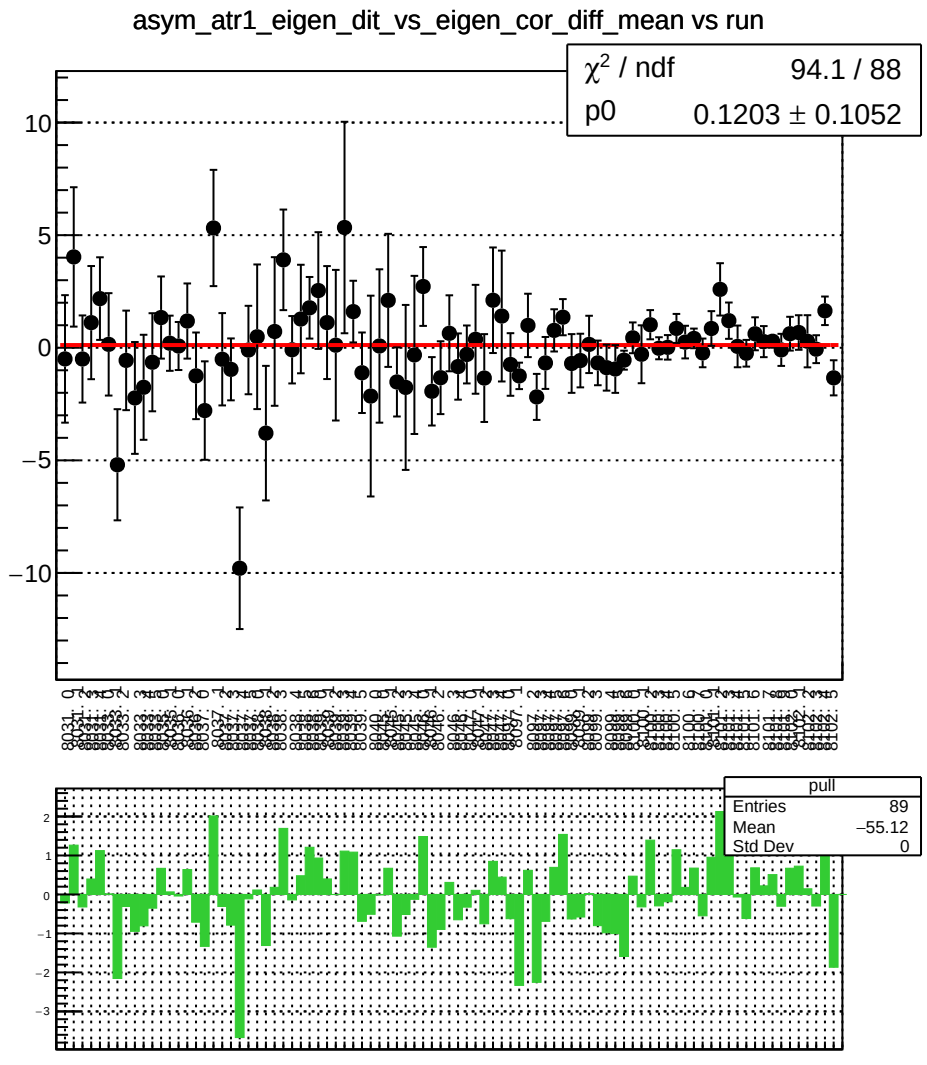

pull1D
Entries 89
Mean 0.01592
Std Dev 1.03
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

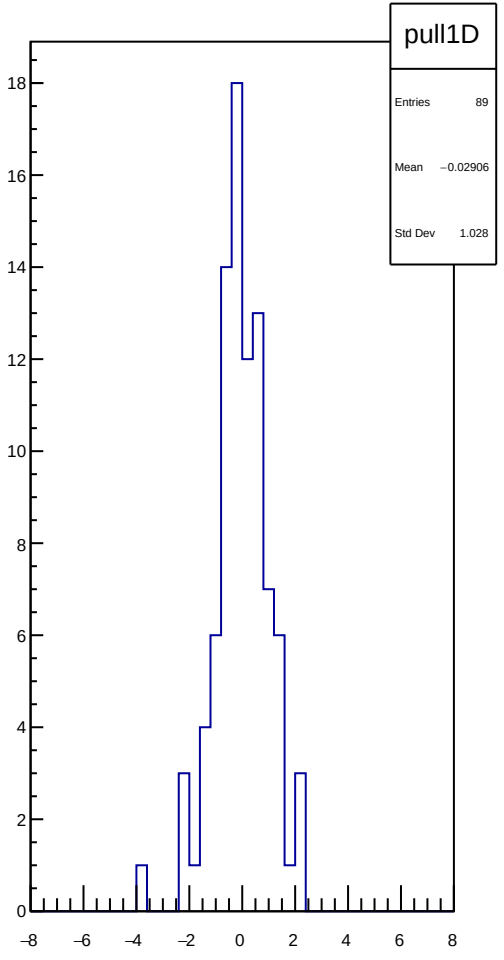

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.911e+04 / 88
p0 0.002804 ± 2.152e−06
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022

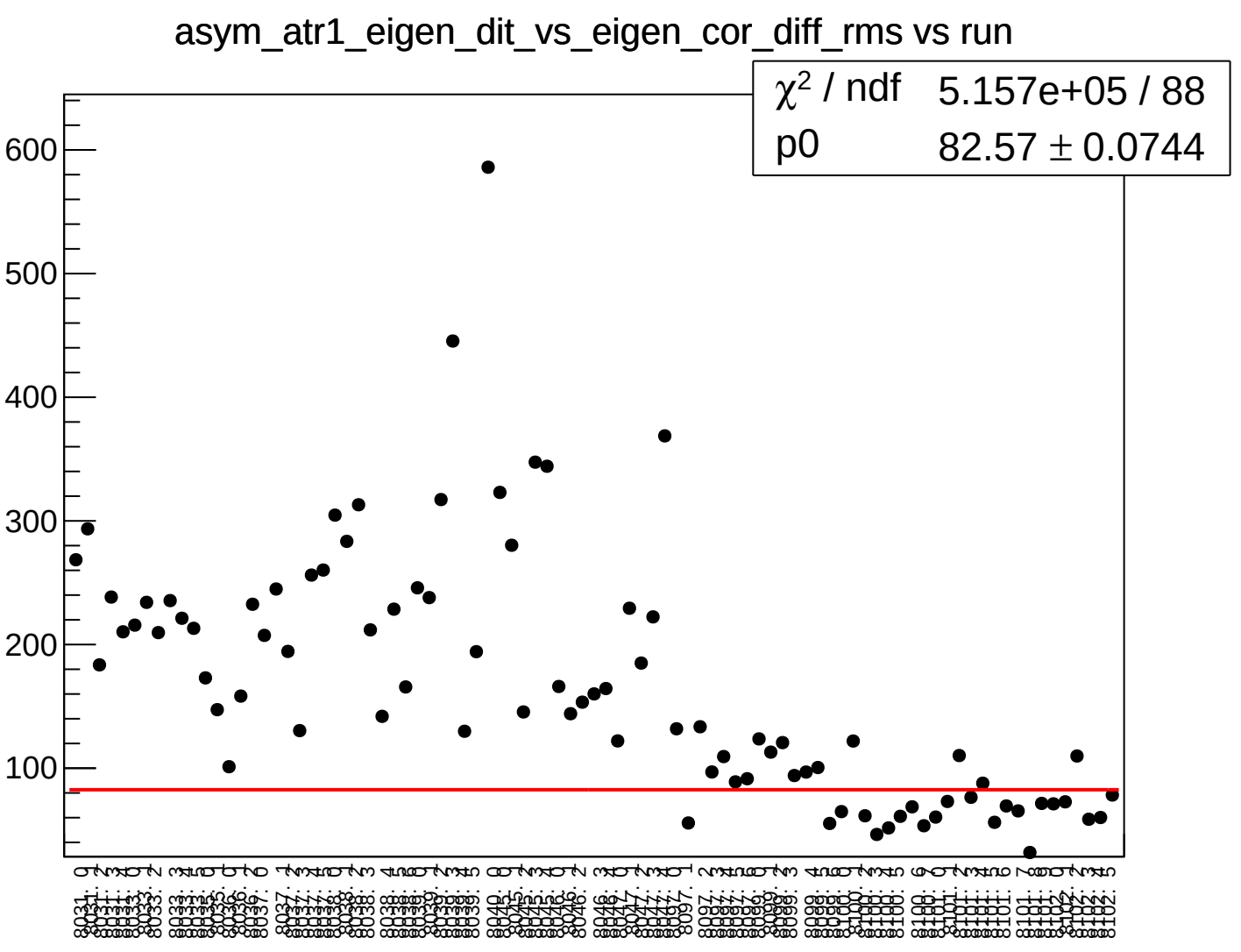

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.1 / 88
p0 0.1203 ± 0.1052
pull
Entries 89
Mean −55.12
Std Dev 0

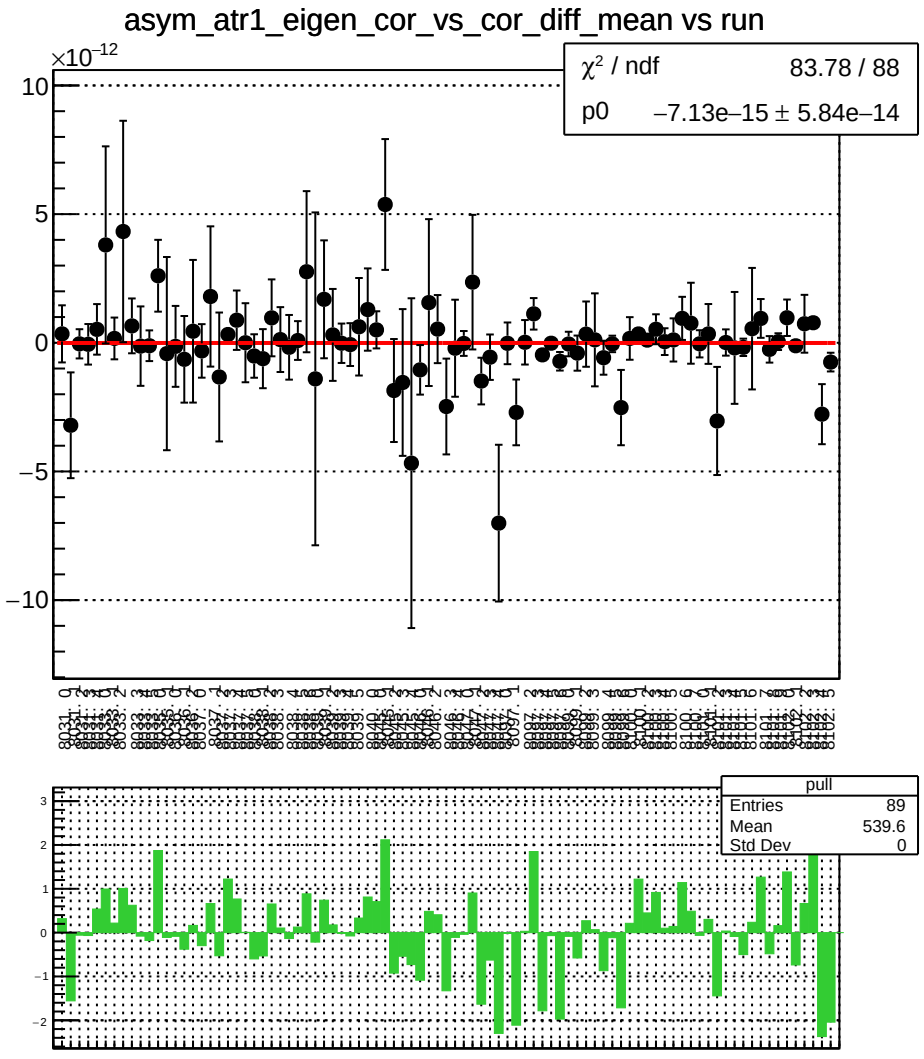

pull1D
Entries 89
Mean −0.02906
Std Dev 1.028

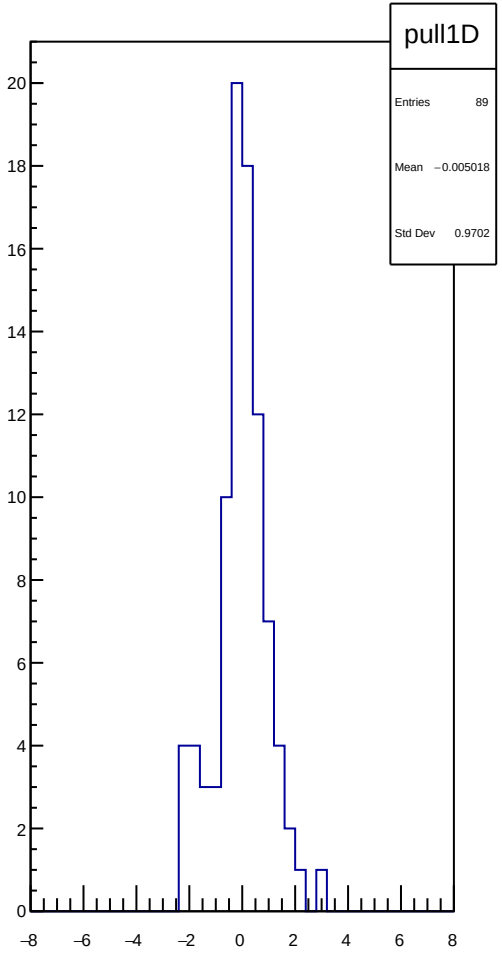

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 5.157e+05 / 88
p0 82.57 ± 0.0744
600
500
400
300
200
100

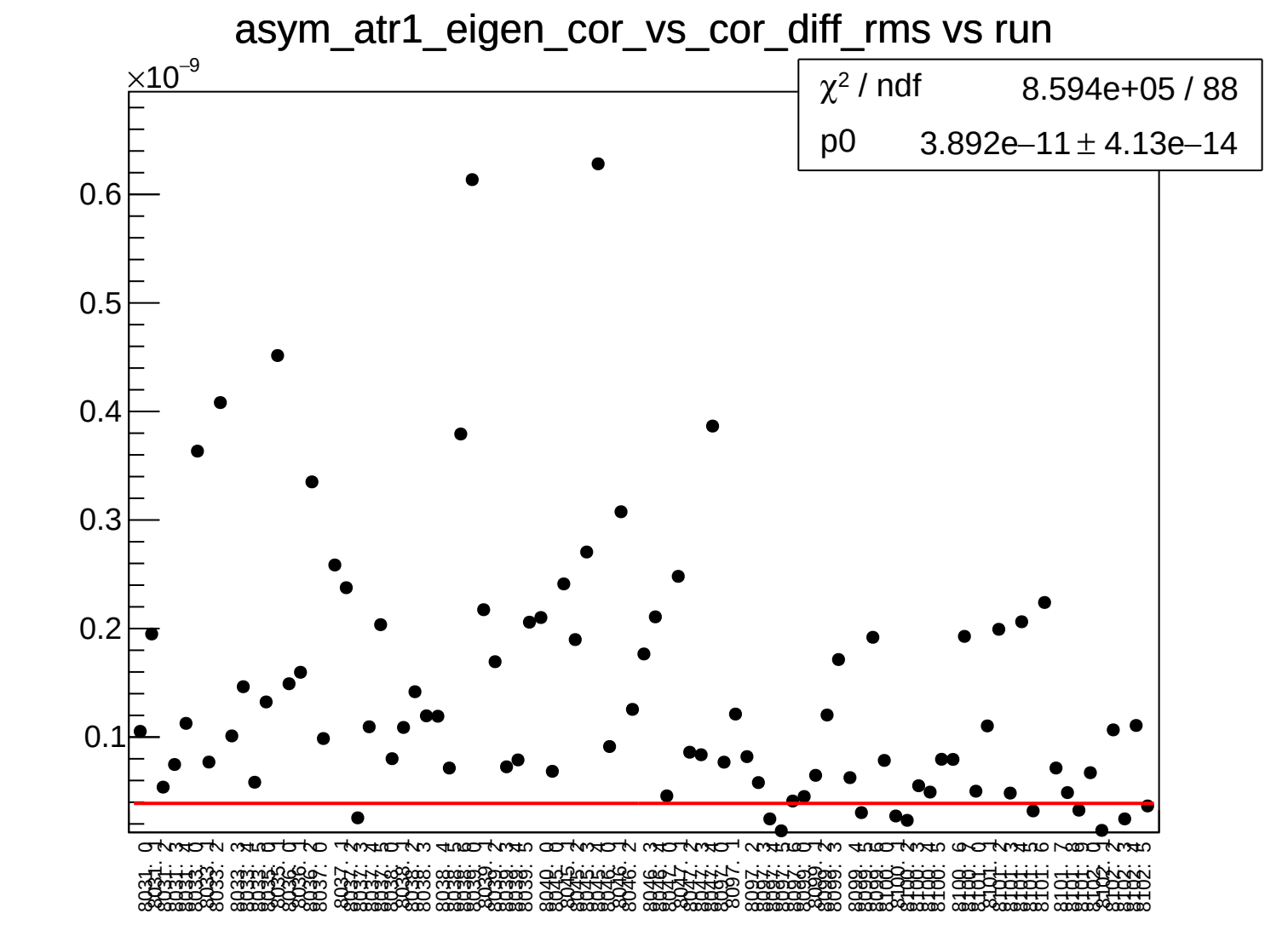

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.1 / 88
p0 0.1203 ± 0.1052
pull
Entries 89
Mean −55.12
Std Dev 0

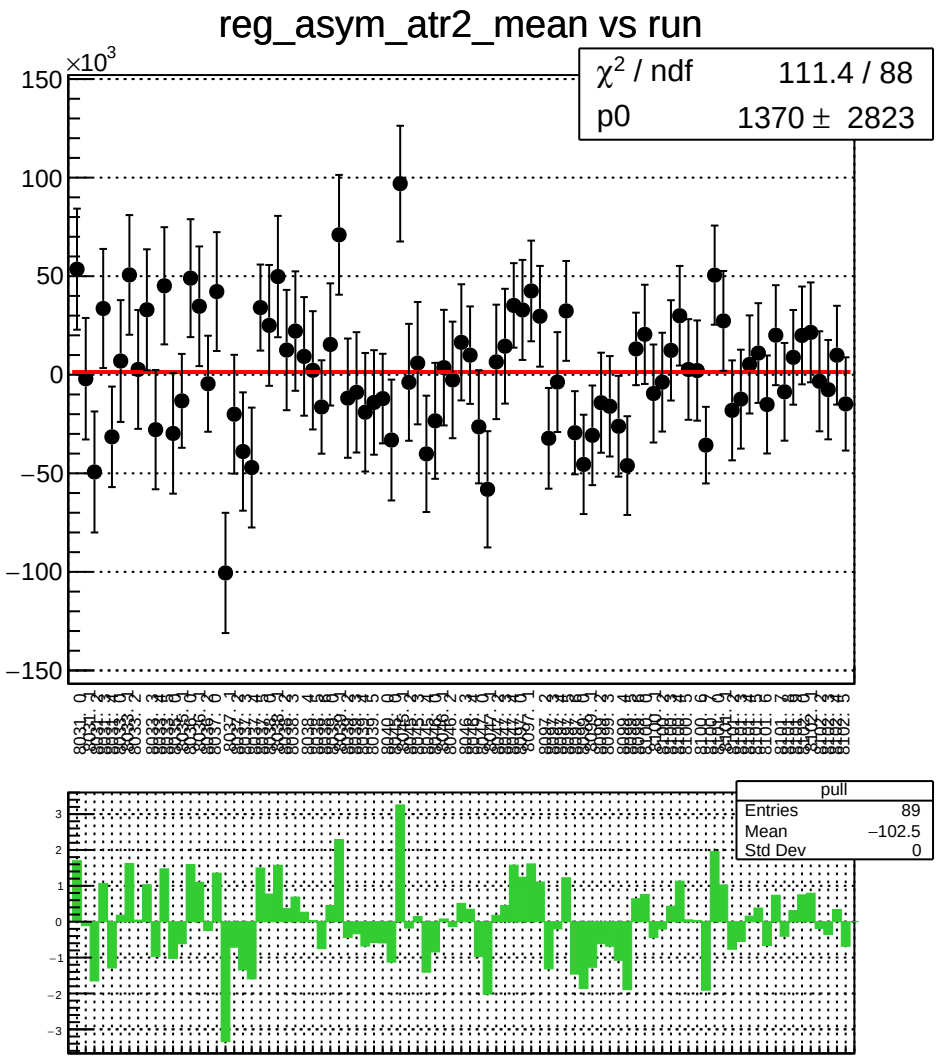

pull1D
Entries 89
Mean −0.02906
Std Dev 1.028

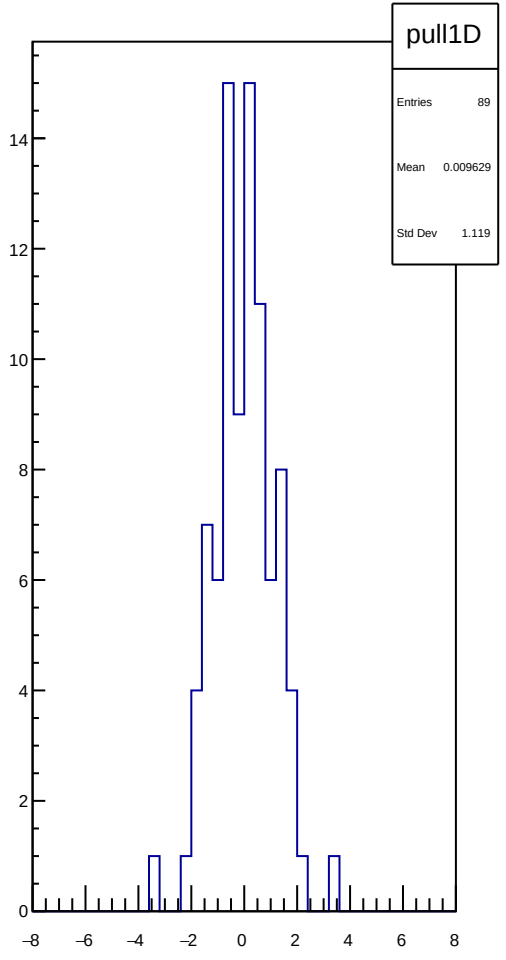

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.157e+05 / 88
p0 82.57 ± 0.0744
600
500
400
300
200
100

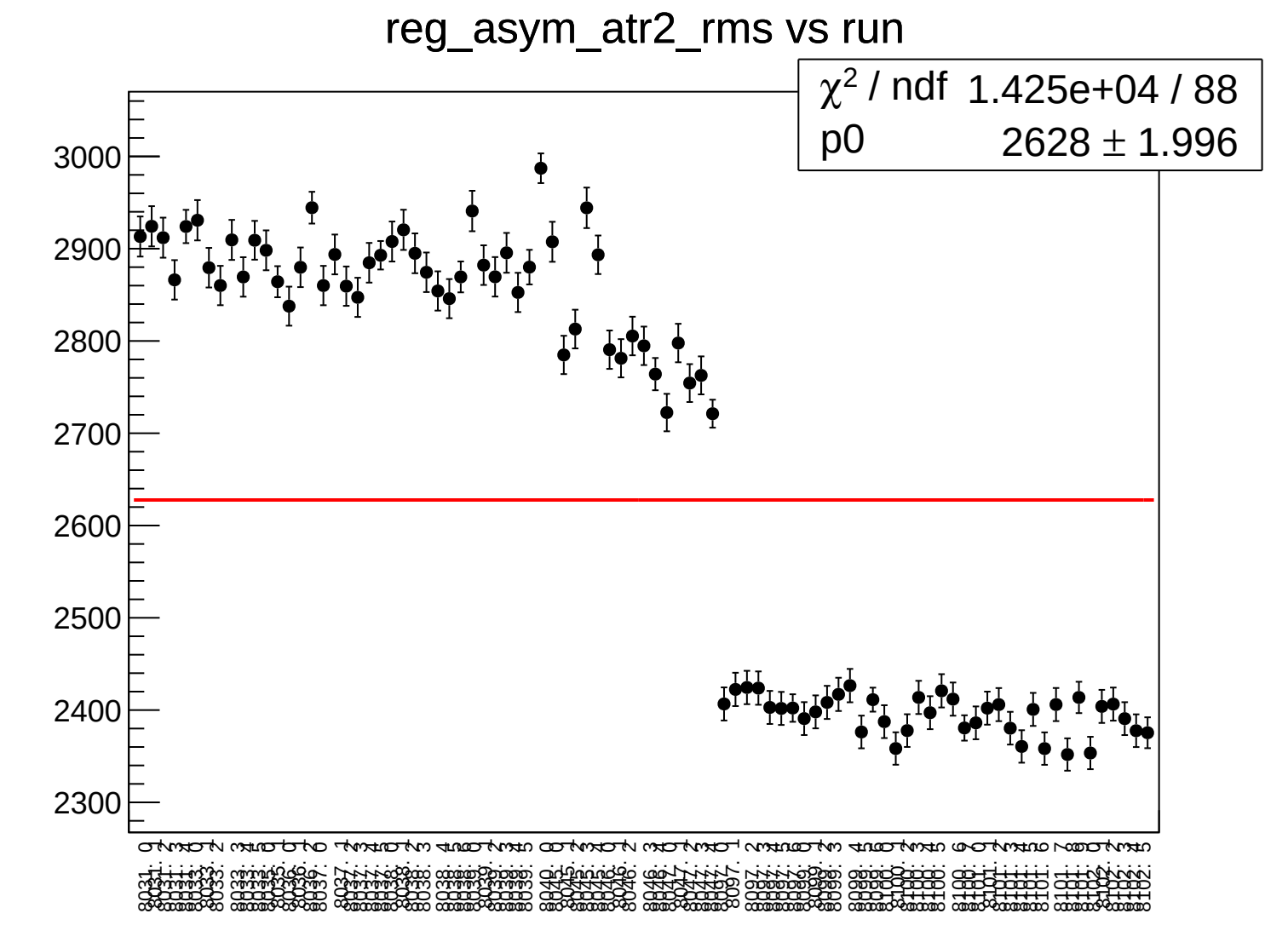

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.78 / 88
p0 −7.13e−15 ± 5.84e−14
pull
Entries 89
Mean 539.6
Std Dev 0

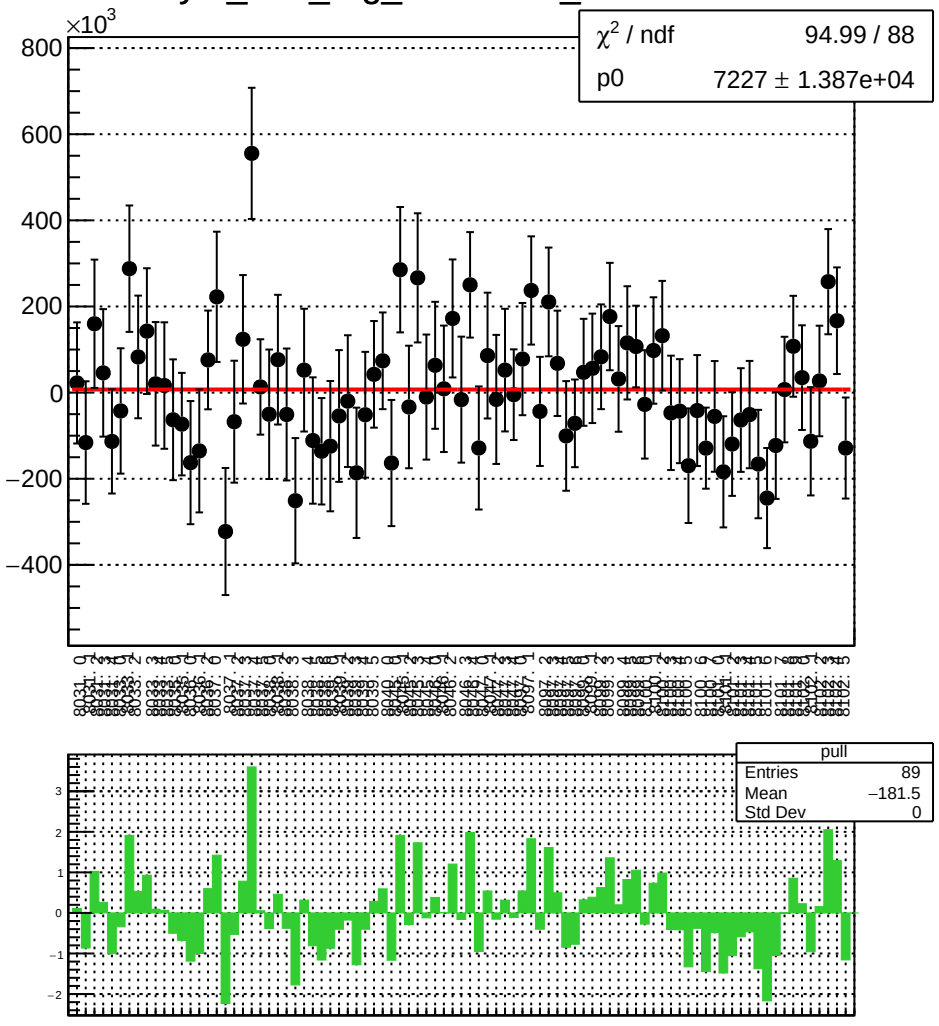

pull1D
Entries 89
Mean −0.005018
Std Dev 0.9702

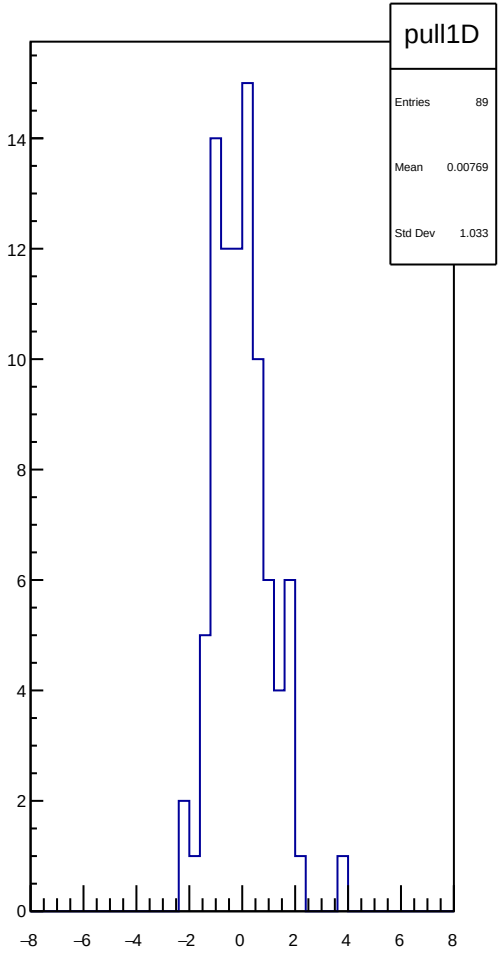

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.594e+05 / 88
p0 3.892e−11 ± 4.13e−14
0.6
0.5
0.4
0.3
0.2
0.1

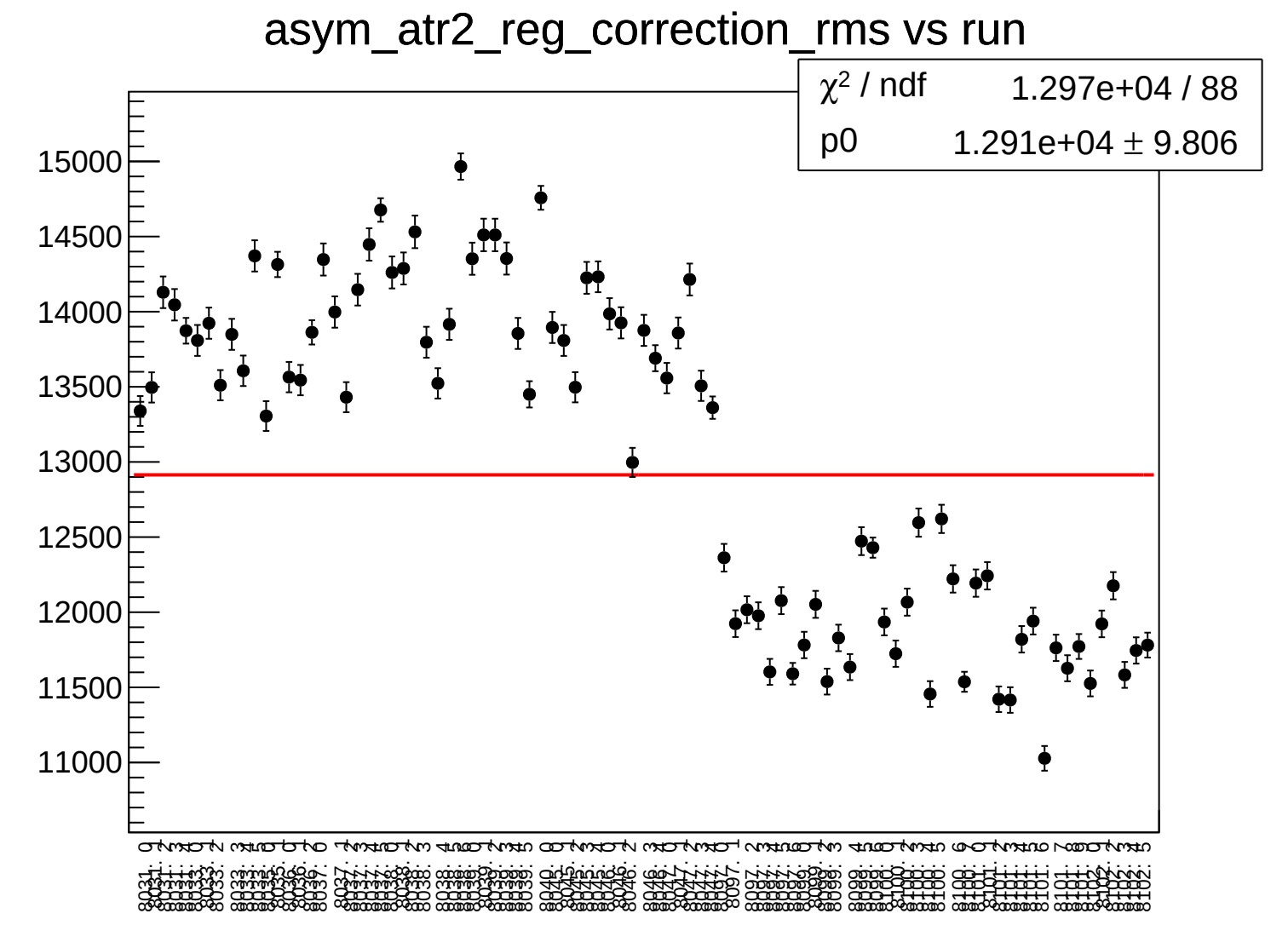

reg_asym_atr2_mean vs run
×10^3
χ² / ndf 111.4 / 88
p0 1370 ± 2823
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −102.5
Std Dev 0
3
2
1
0
−1
−2
−3

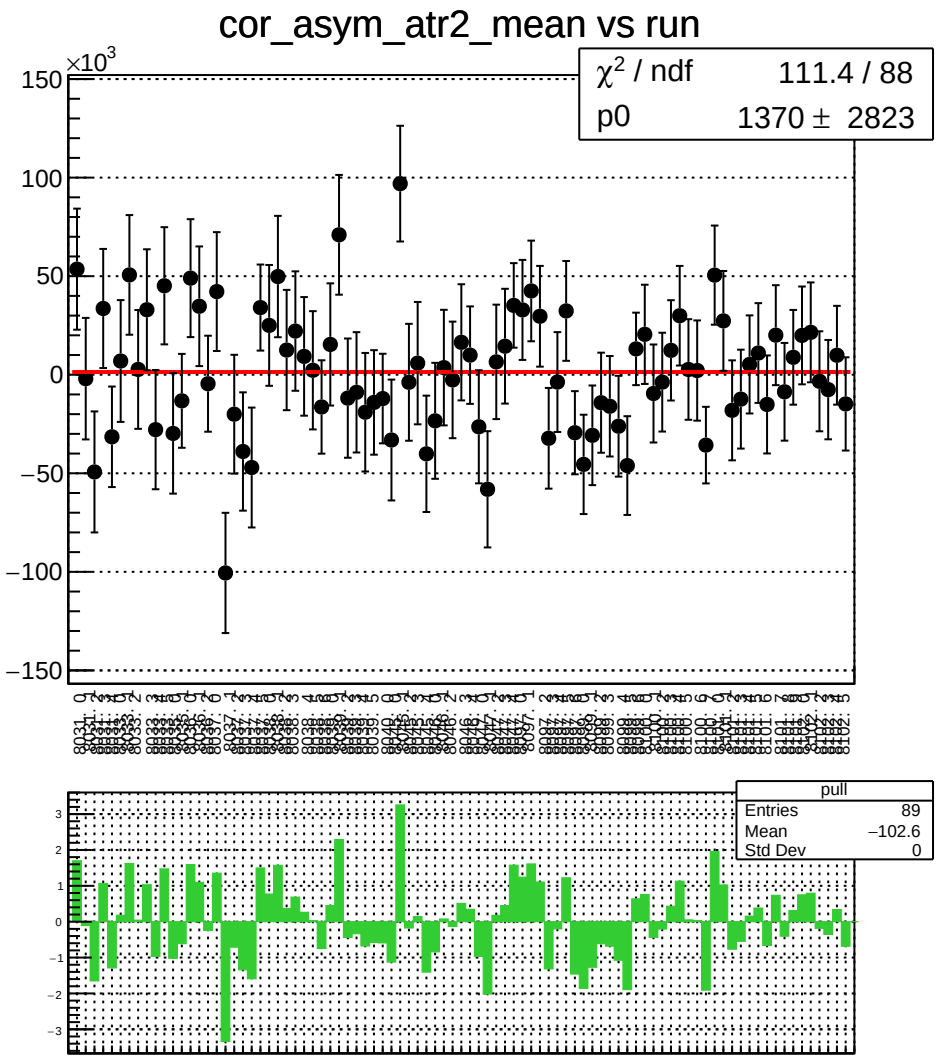

pull1D
Entries 89
Mean 0.009629
Std Dev 1.119
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

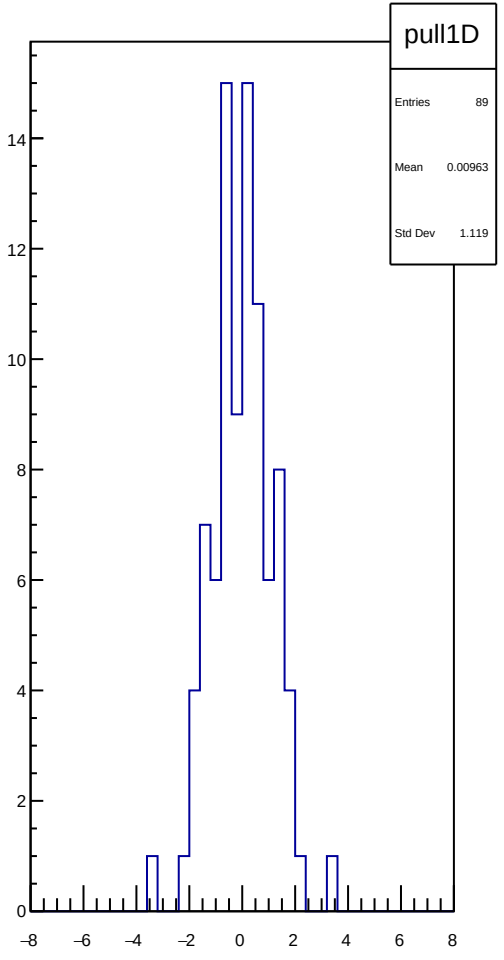

reg_asym_atr2_rms vs run
χ² / ndf 1.425e+04 / 88
p0 2628 ± 1.996
3000
2900
2800
2700
2600
2500
2400
2300

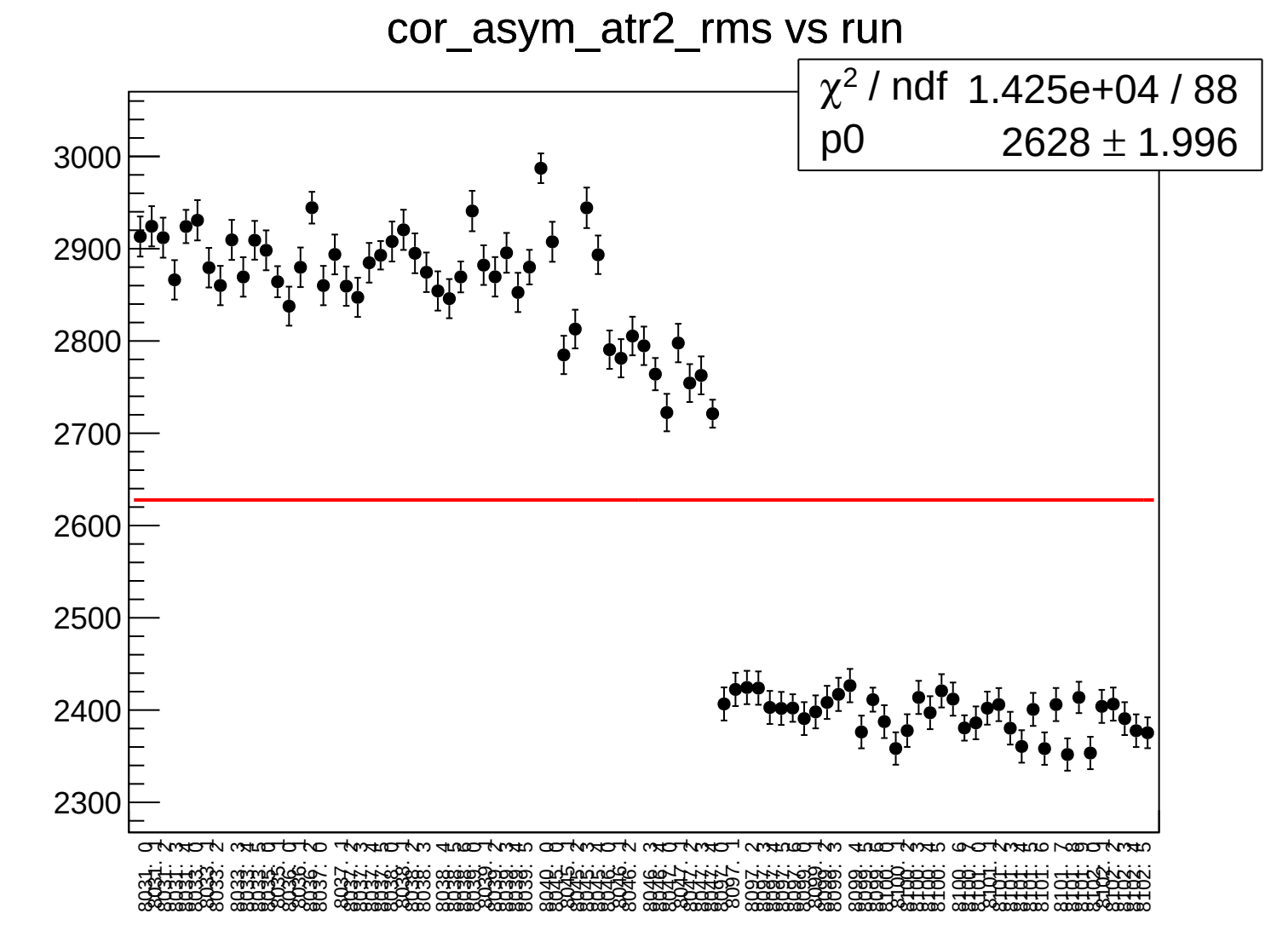

asym_atr2_reg_correction_mean vs run
×10^3
χ² / ndf 94.99 / 88
p0 7227 ± 1.387e+04
pull
Entries 89
Mean −181.5
Std Dev 0

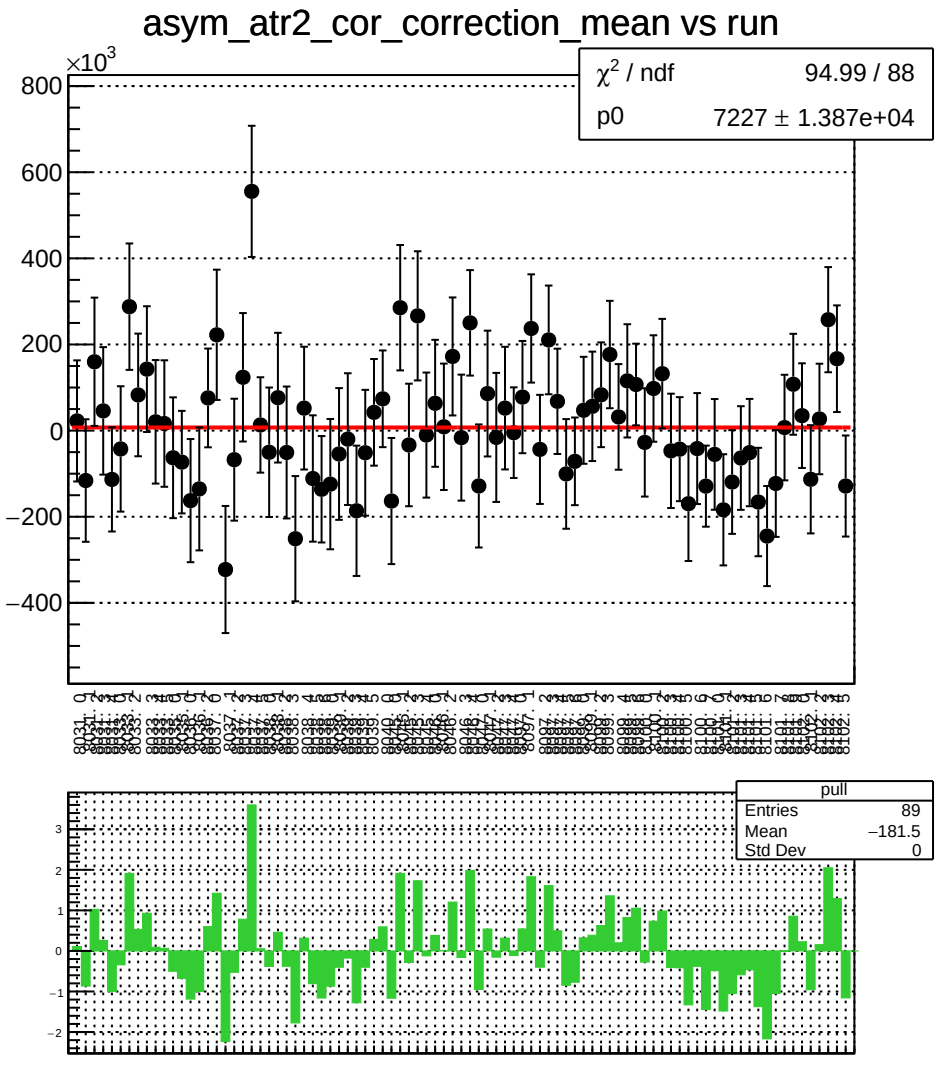

pull1D
Entries 89
Mean 0.00769
Std Dev 1.033

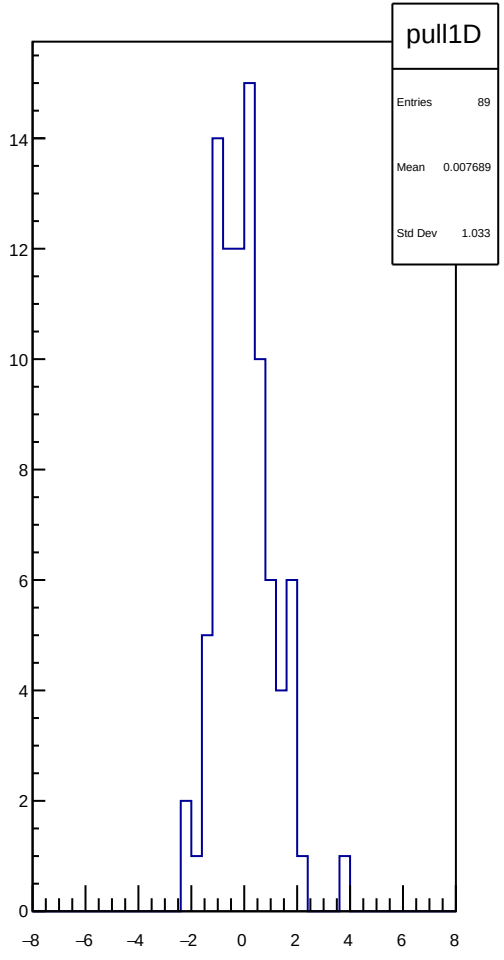

asym_atr2_reg_correction_rms vs run
χ² / ndf 1.297e+04 / 88
p0 1.291e+04 ± 9.806
15000
14500
14000
13500
13000
12500
12000
11500
11000

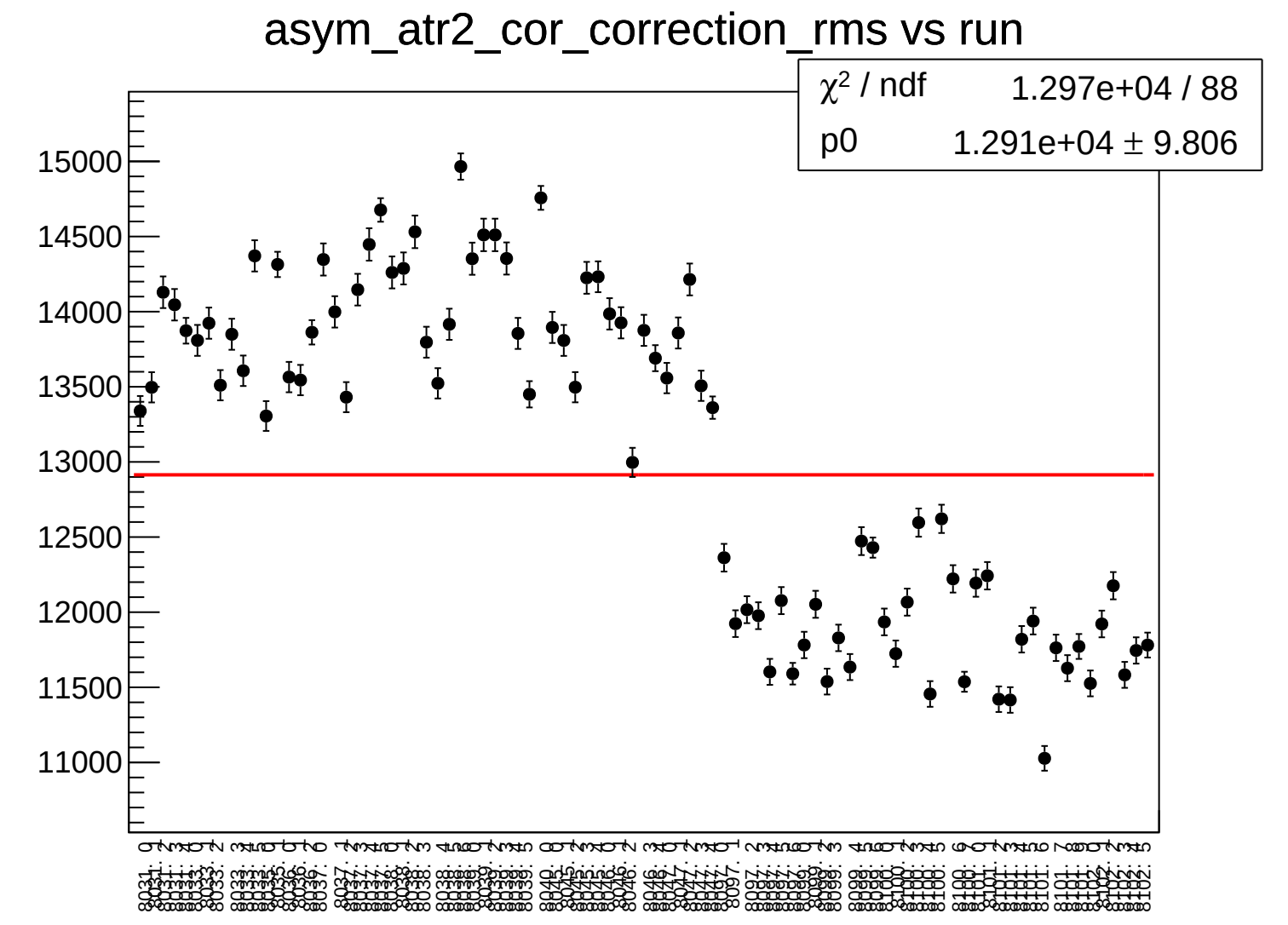

cor_asym_atr2_mean vs run
×10^3
χ^2 / ndf 111.4 / 88
p0 1370 ± 2823
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −102.6
Std Dev 0
3
2
1
0
−1
−2
−3

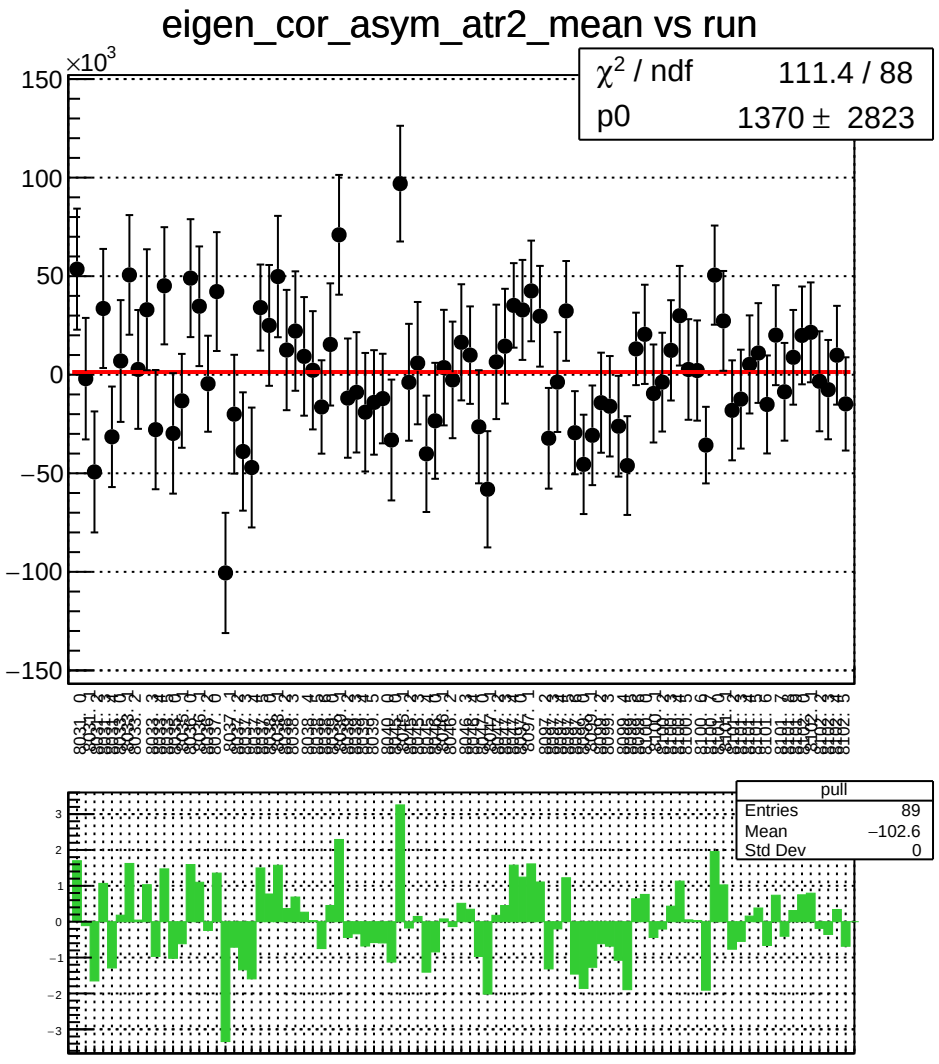

pull1D
Entries 89
Mean 0.00963
Std Dev 1.119
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

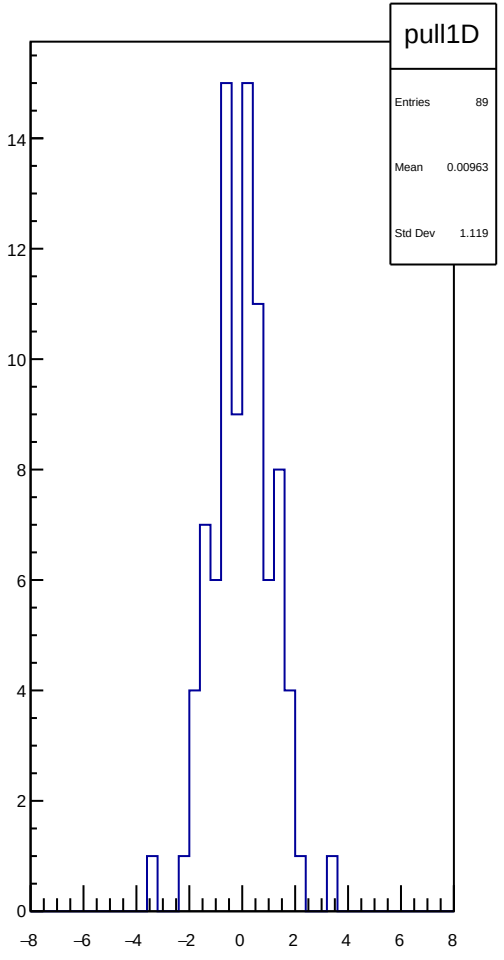

cor_asym_atr2_rms vs run
χ² / ndf 1.425e+04 / 88
p0 2628 ± 1.996
3000
2900
2800
2700
2600
2500
2400
2300

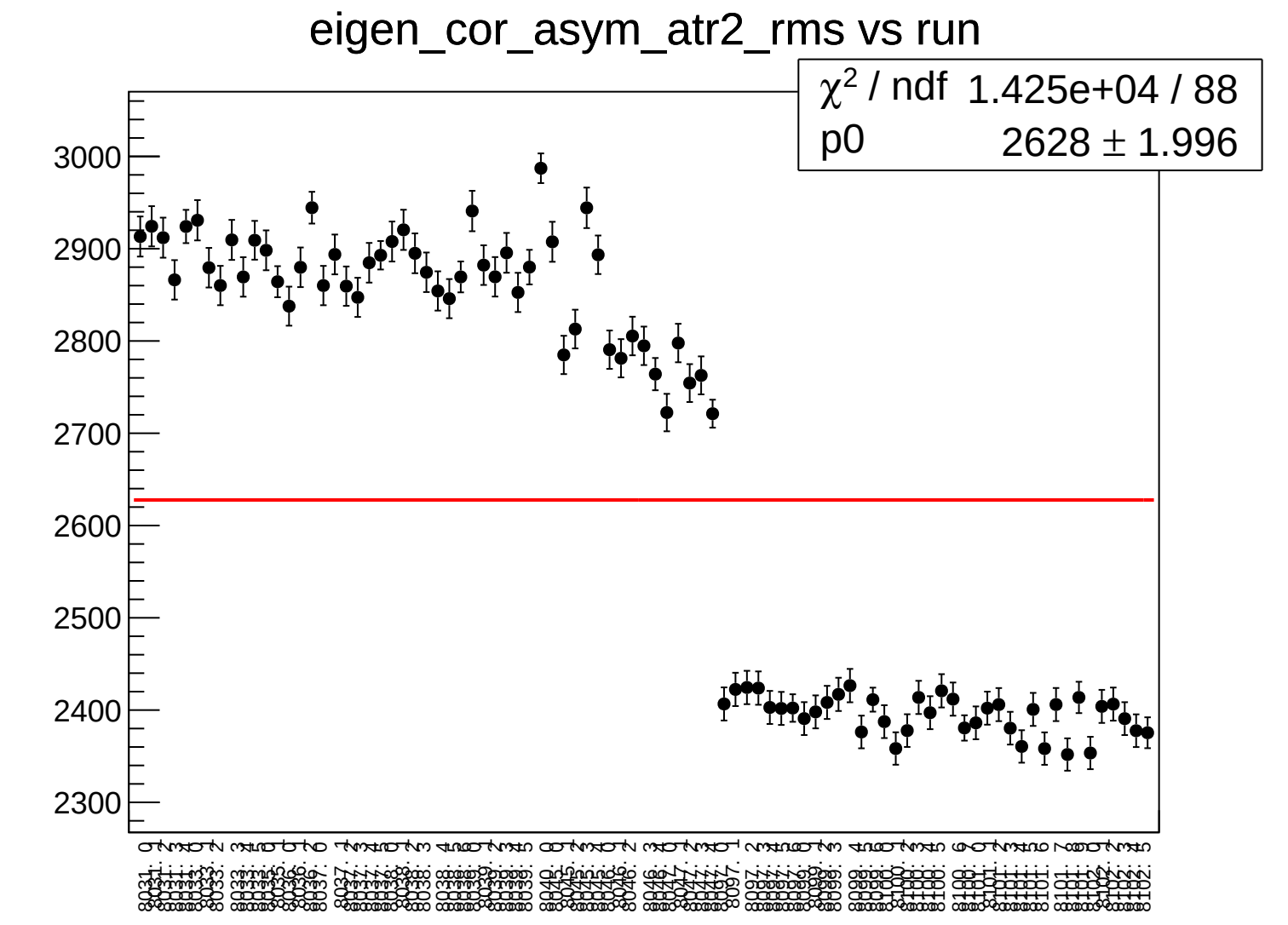

asym_atr2_cor_correction_mean vs run
×10^3
χ² / ndf 94.99 / 88
p0 7227 ± 1.387e+04
800
600
400
200
0
−200
−400
pull
Entries 89
Mean −181.5
Std Dev 0
3
2
1
0
−1
−2

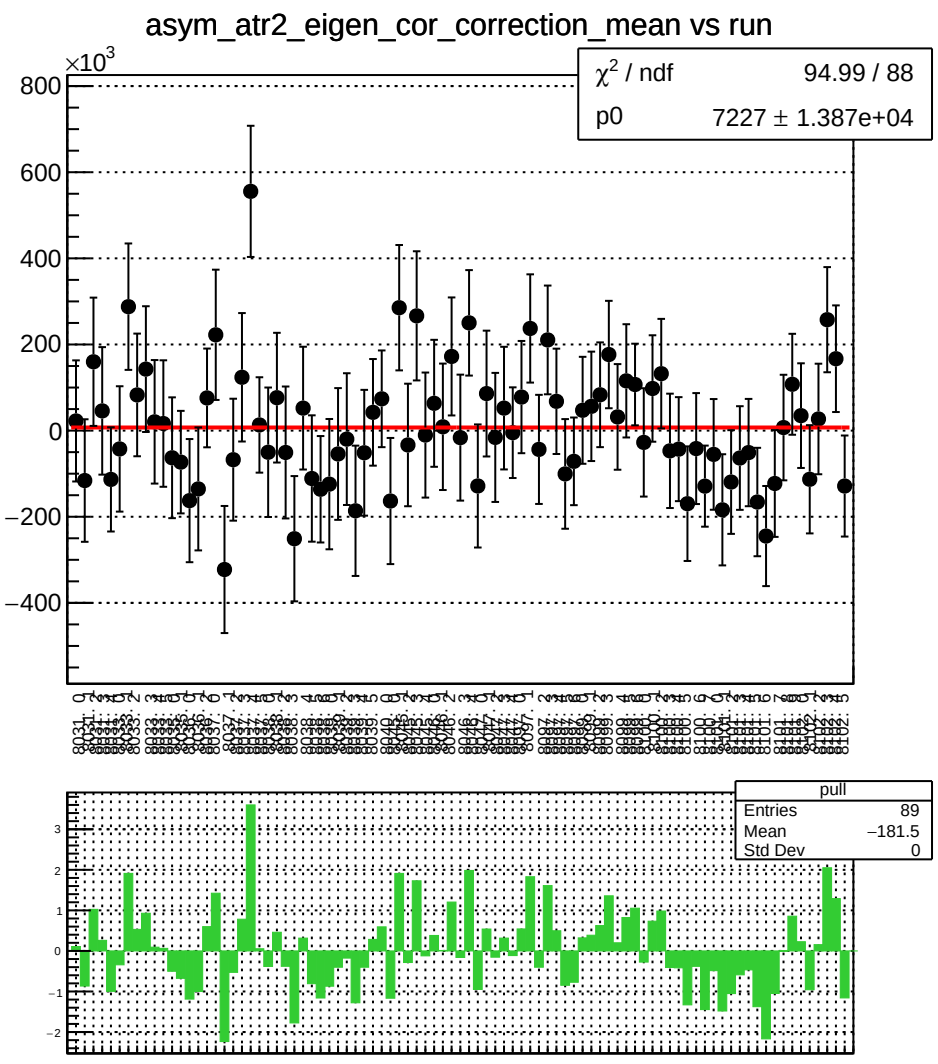

pull1D
Entries 89
Mean 0.007689
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

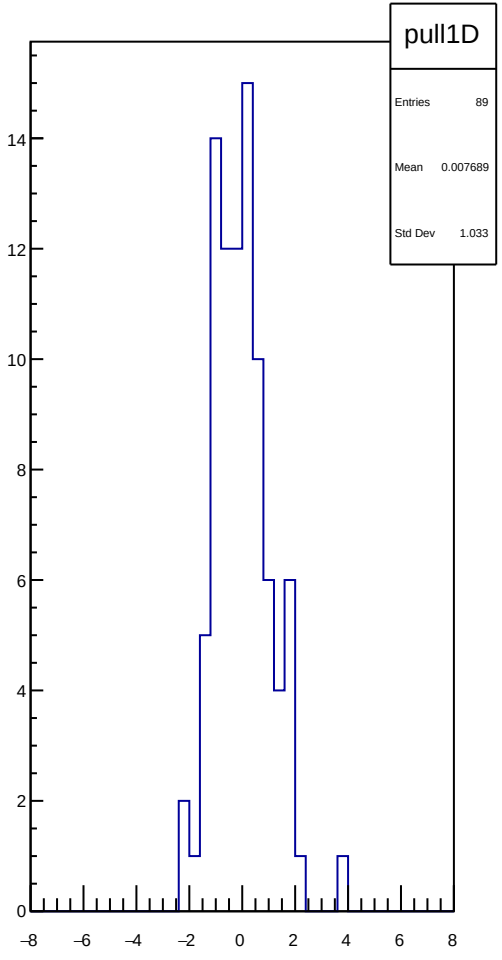

asym_atr2_cor_correction_rms vs run
χ² / ndf 1.297e+04 / 88
p0 1.291e+04 ± 9.806
15000
14500
14000
13500
13000
12500
12000
11500
11000

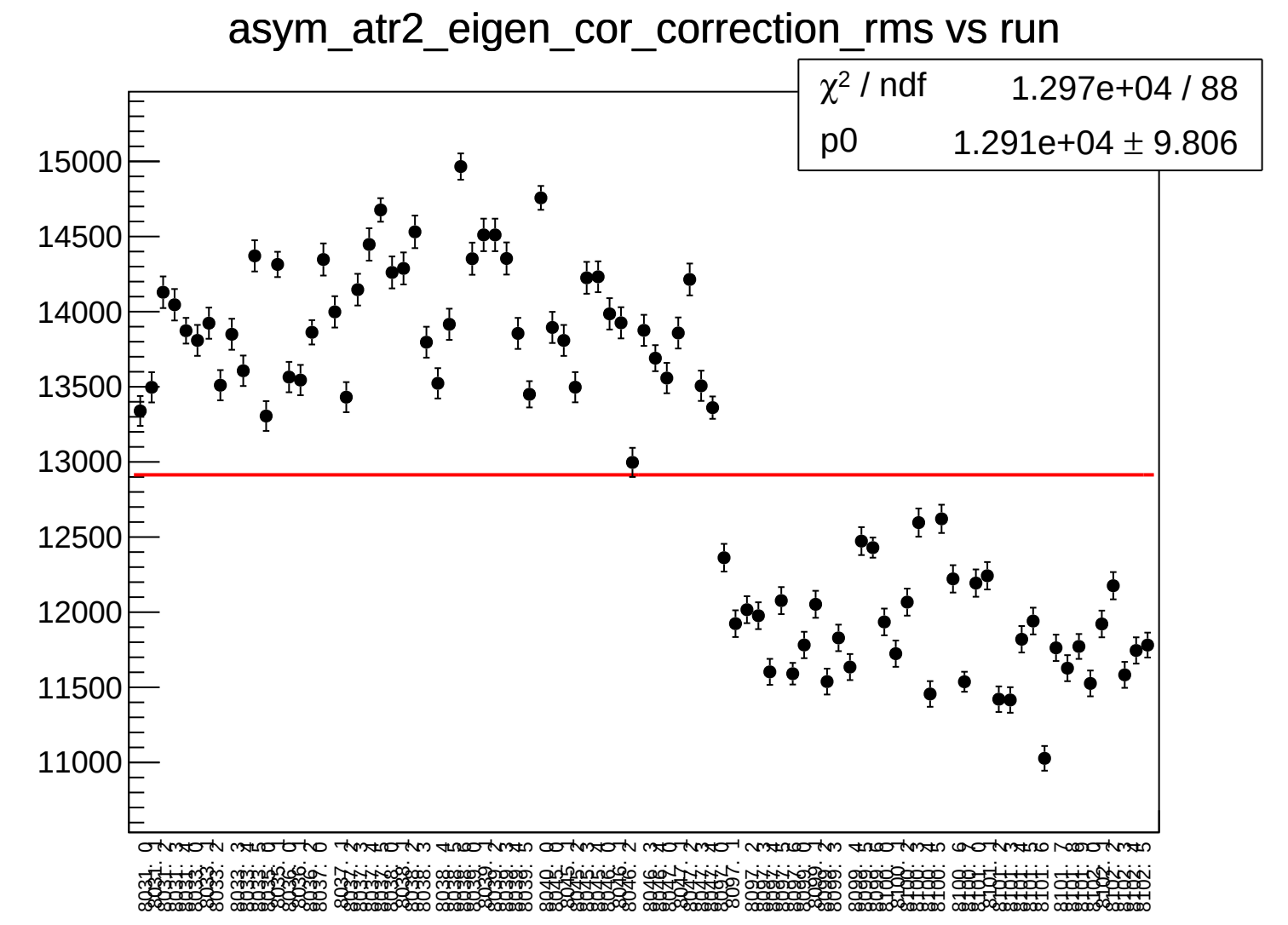

eigen_cor_asym_atr2_mean vs run
×10^3
χ^2 / ndf 111.4 / 88
p0 1370 ± 2823
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −102.6
Std Dev 0
3
2
1
0
−1
−2
−3

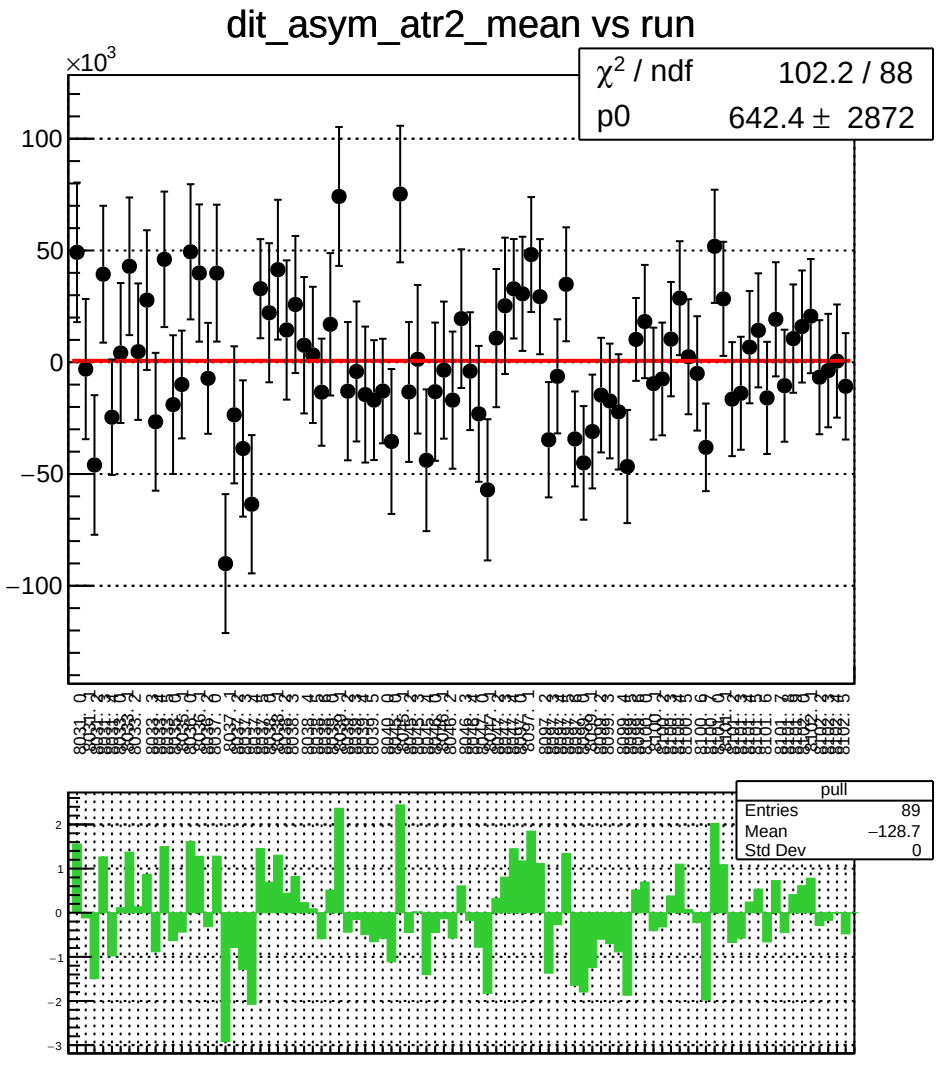

pull1D
Entries 89
Mean 0.00963
Std Dev 1.119
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

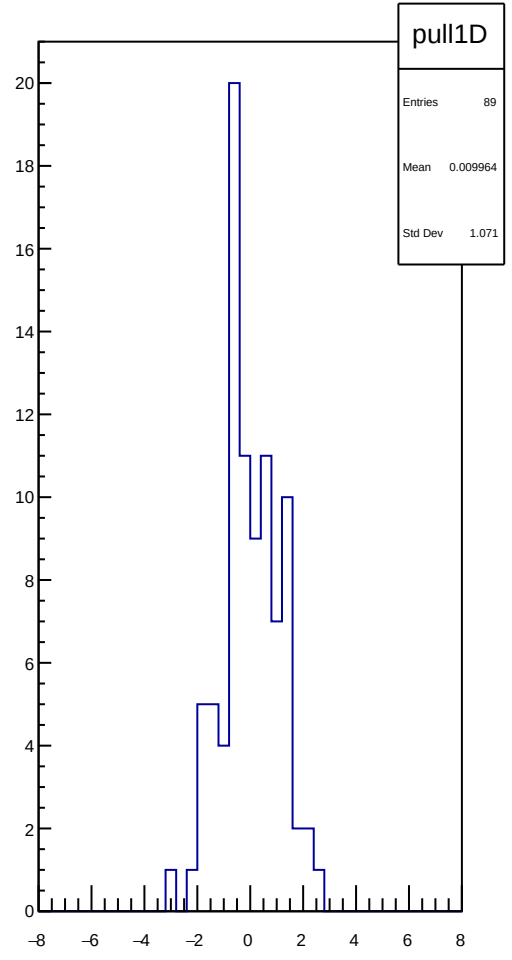

eigen_cor_asym_atr2_rms vs run
χ² / ndf 1.425e+04 / 88
p0 2628 ± 1.996
3000
2900
2800
2700
2600
2500
2400
2300

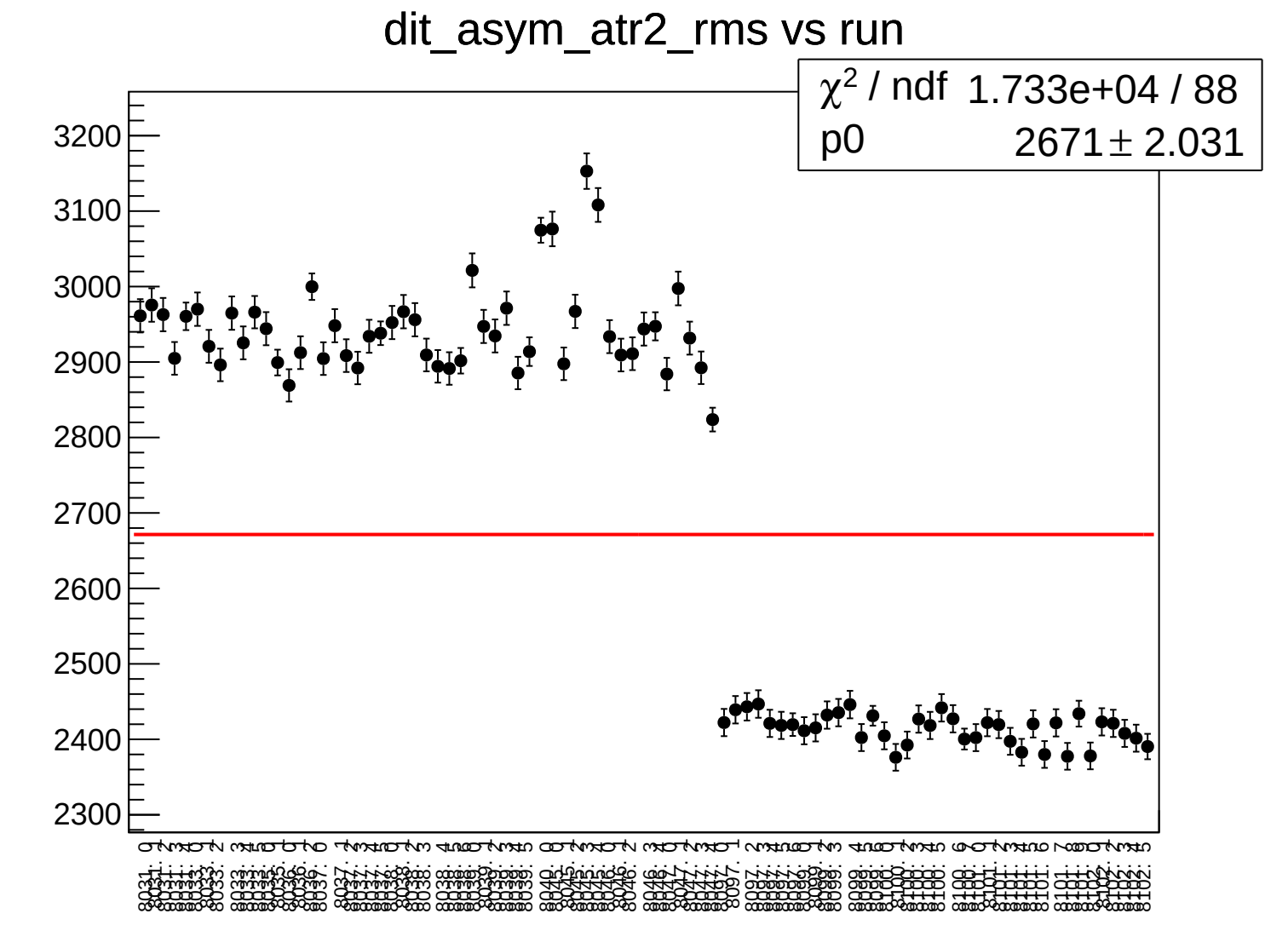

asym_atr2_eigen_cor_correction_mean vs run
×10^3
800
600
400
200
0
−200
−400
χ² / ndf 94.99 / 88
p0 7227 ± 1.387e+04
pull
Entries 89
Mean −181.5
Std Dev 0
3
2
1
0
−1
−2

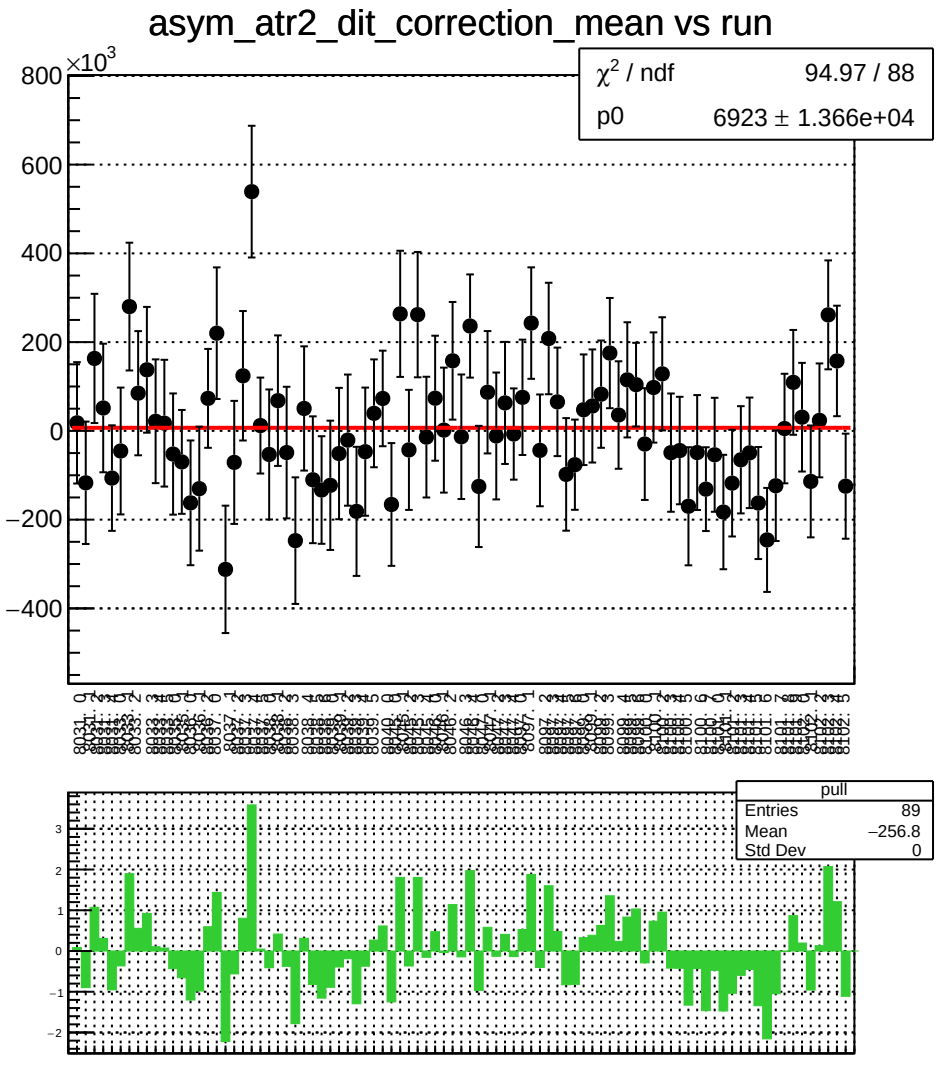

pull1D
Entries 89
Mean 0.007689
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

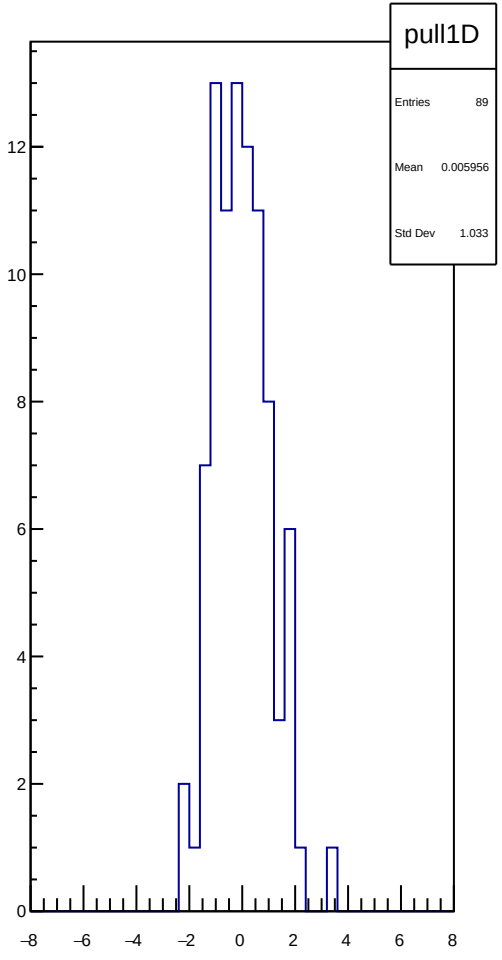

asym_atr2_eigen_cor_correction_rms vs run
χ² / ndf 1.297e+04 / 88
p0 1.291e+04 ± 9.806
15000
14500
14000
13500
13000
12500
12000
11500
11000

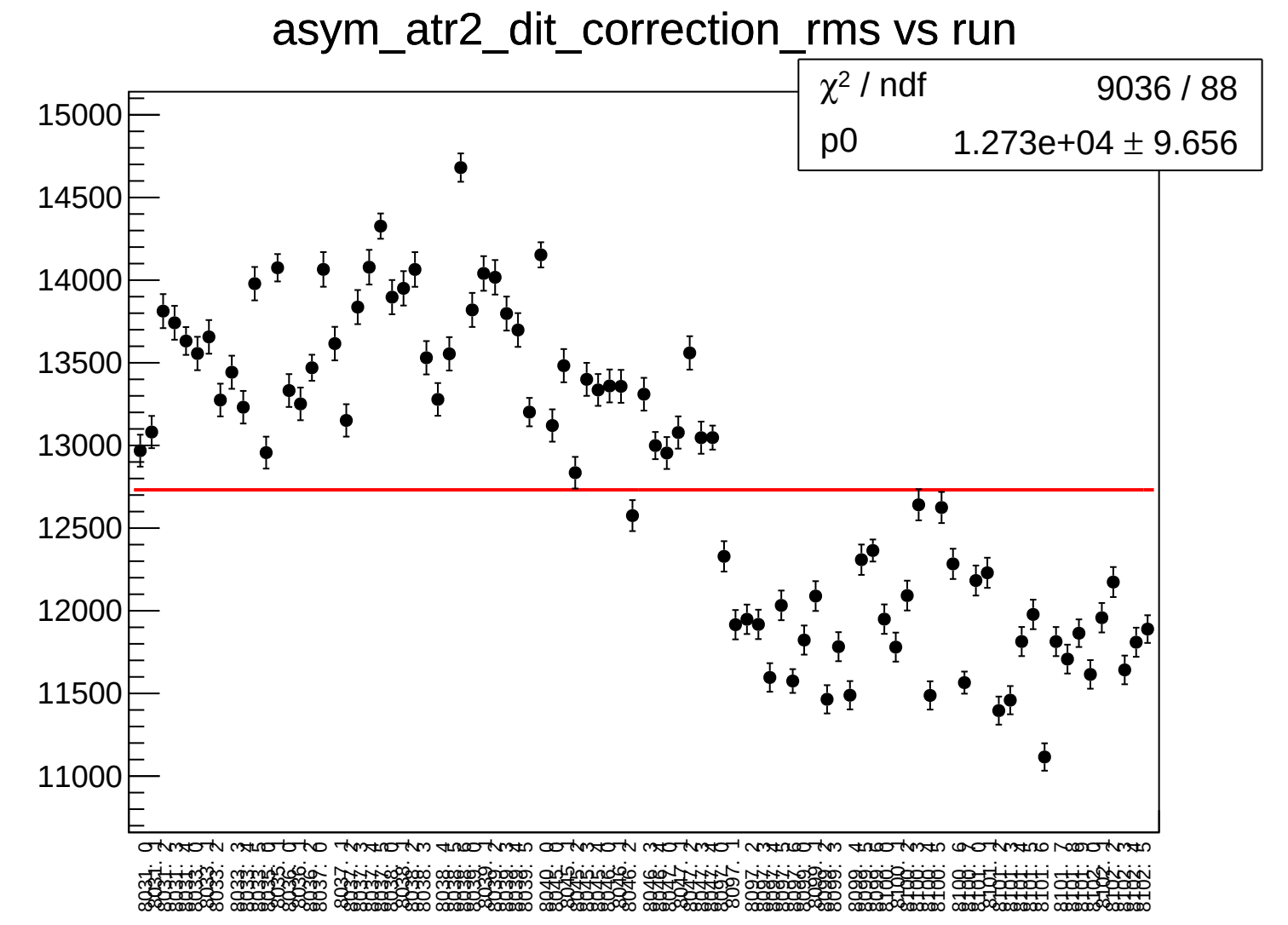

dit_asym_atr2_mean vs run
×10^3
χ^2 / ndf 102.2 / 88
p0 642.4 ± 2872
100
50
0
−50
−100
pull
Entries 89
Mean −128.7
Std Dev 0
2
1
0
−1
−2
−3

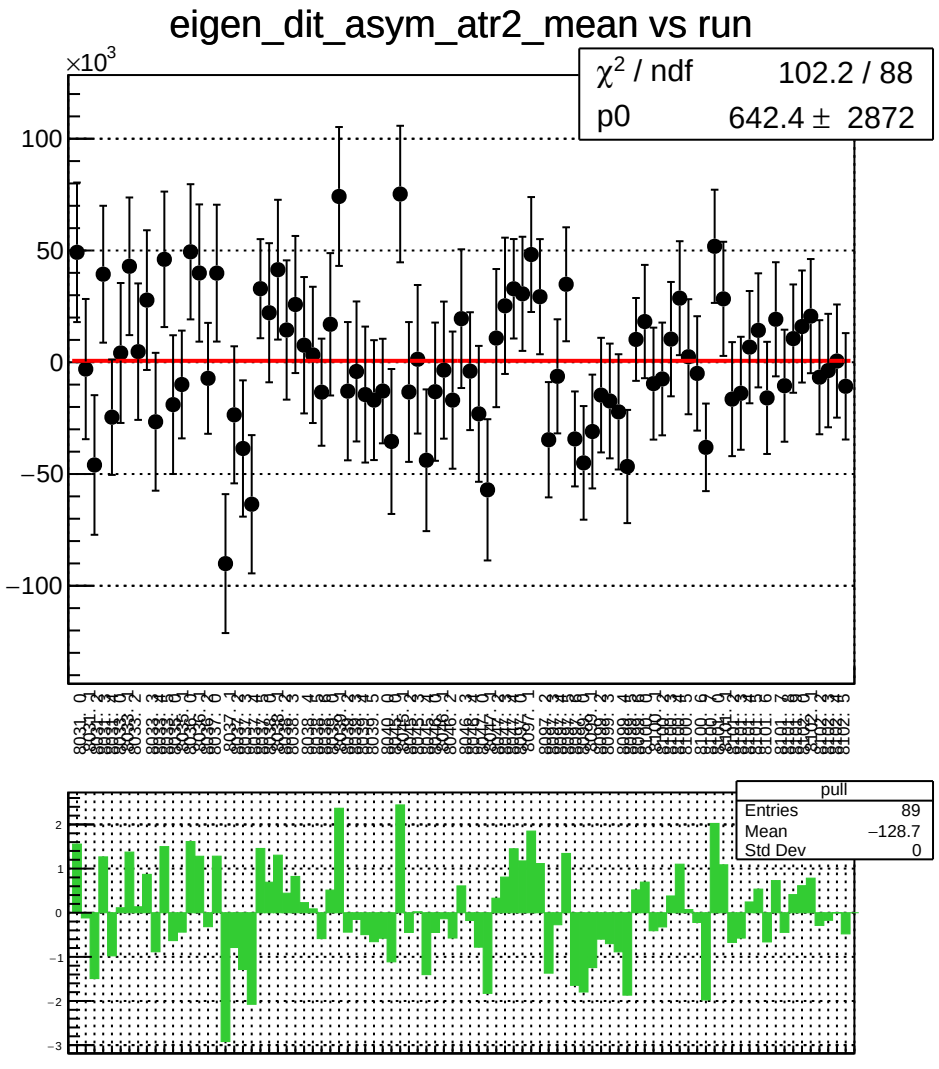

pull1D
Entries 89
Mean 0.009964
Std Dev 1.071
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

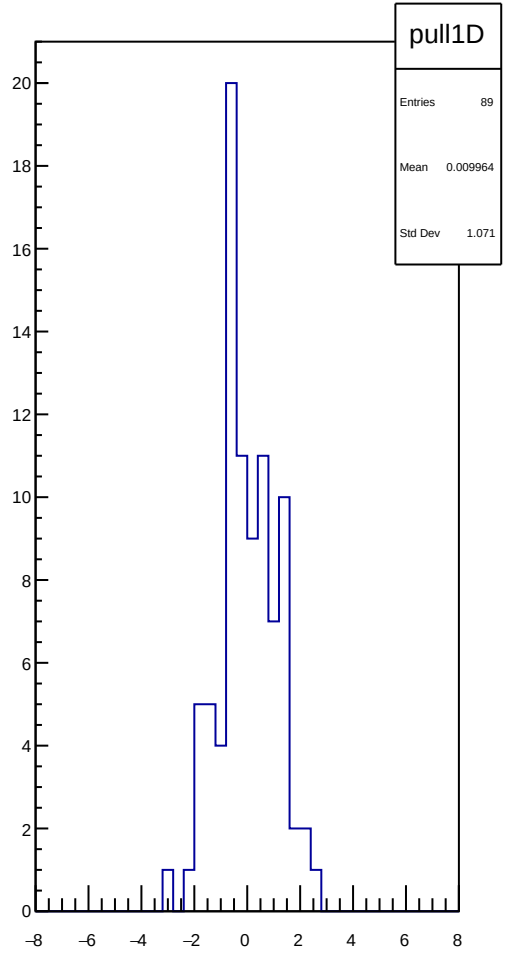

dit_asym_atr2_rms vs run
$\chi^2$ / ndf 1.733e+04 / 88
p0 2671 ± 2.031
3200
3100
3000
2900
2800
2700
2600
2500
2400
2300

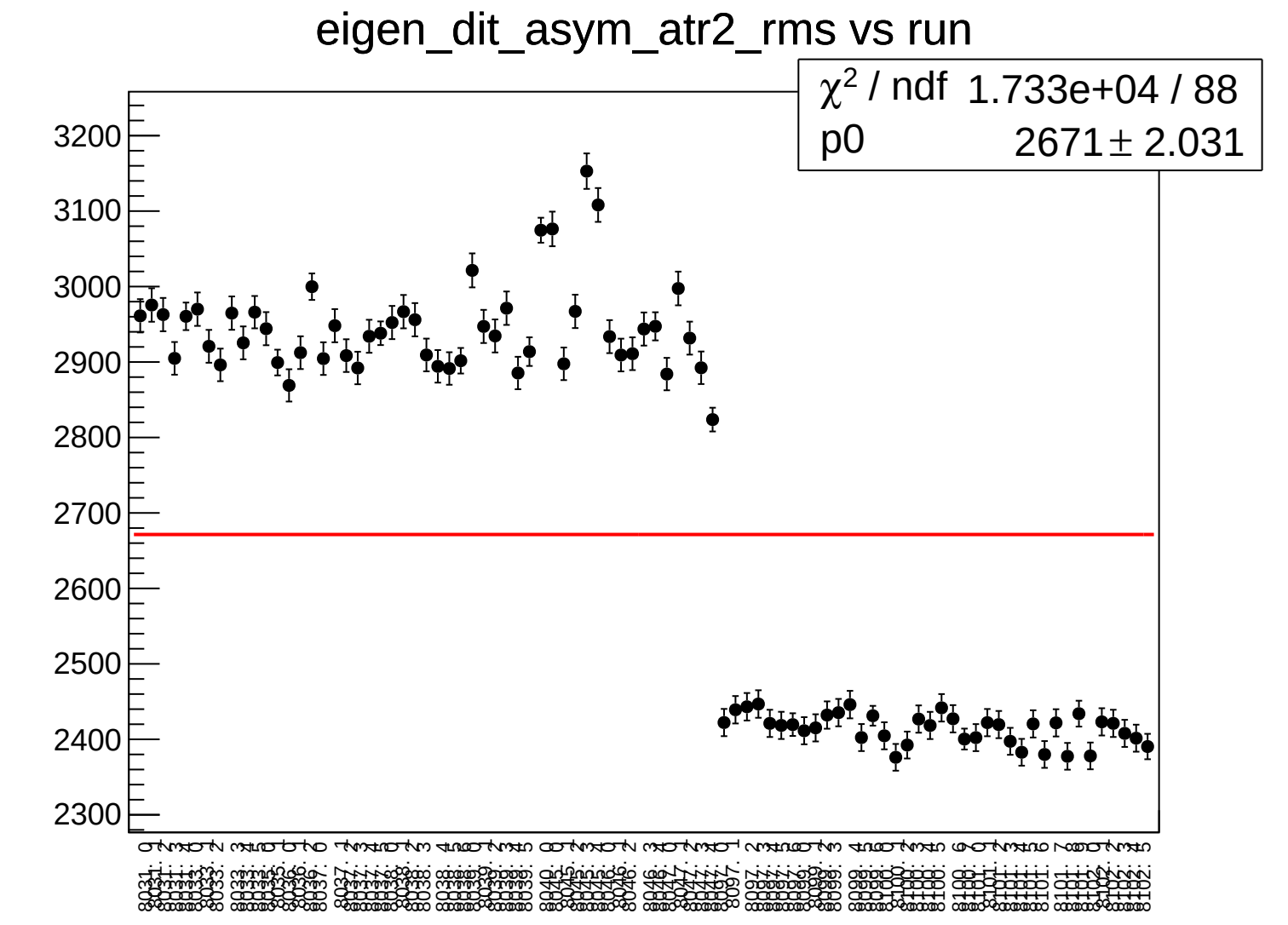

asym_atr2_dit_correction_mean vs run
$\chi^2$ / ndf 94.97 / 88
p0 6923 ± 1.366e+04
pull
Entries 89
Mean −256.8
Std Dev 0

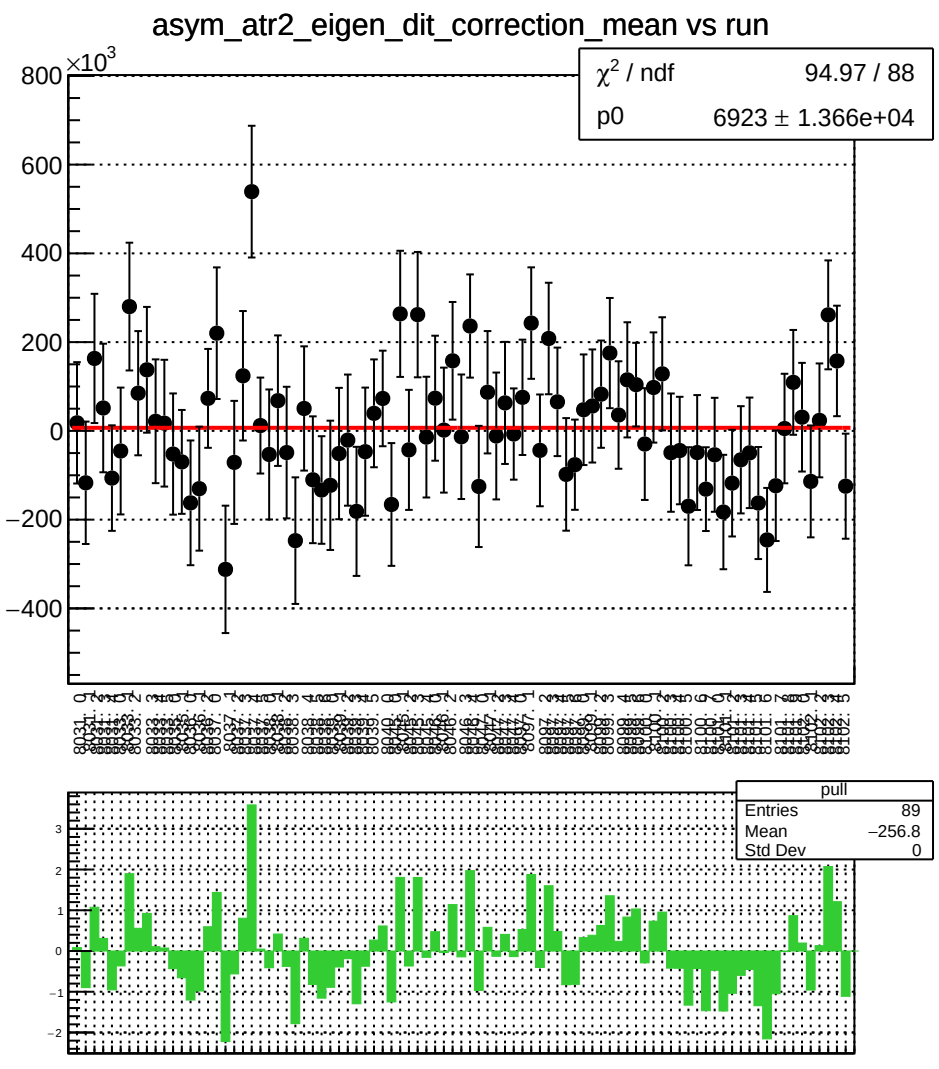

pull1D
Entries 89
Mean 0.005956
Std Dev 1.033

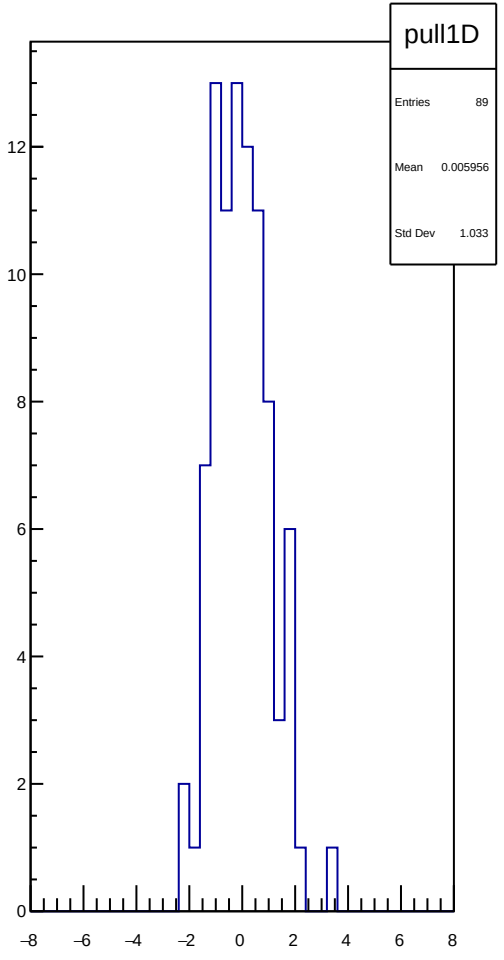

asym_atr2_dit_correction_rms vs run
χ² / ndf 9036 / 88
p0 1.273e+04 ± 9.656
15000
14500
14000
13500
13000
12500
12000
11500
11000

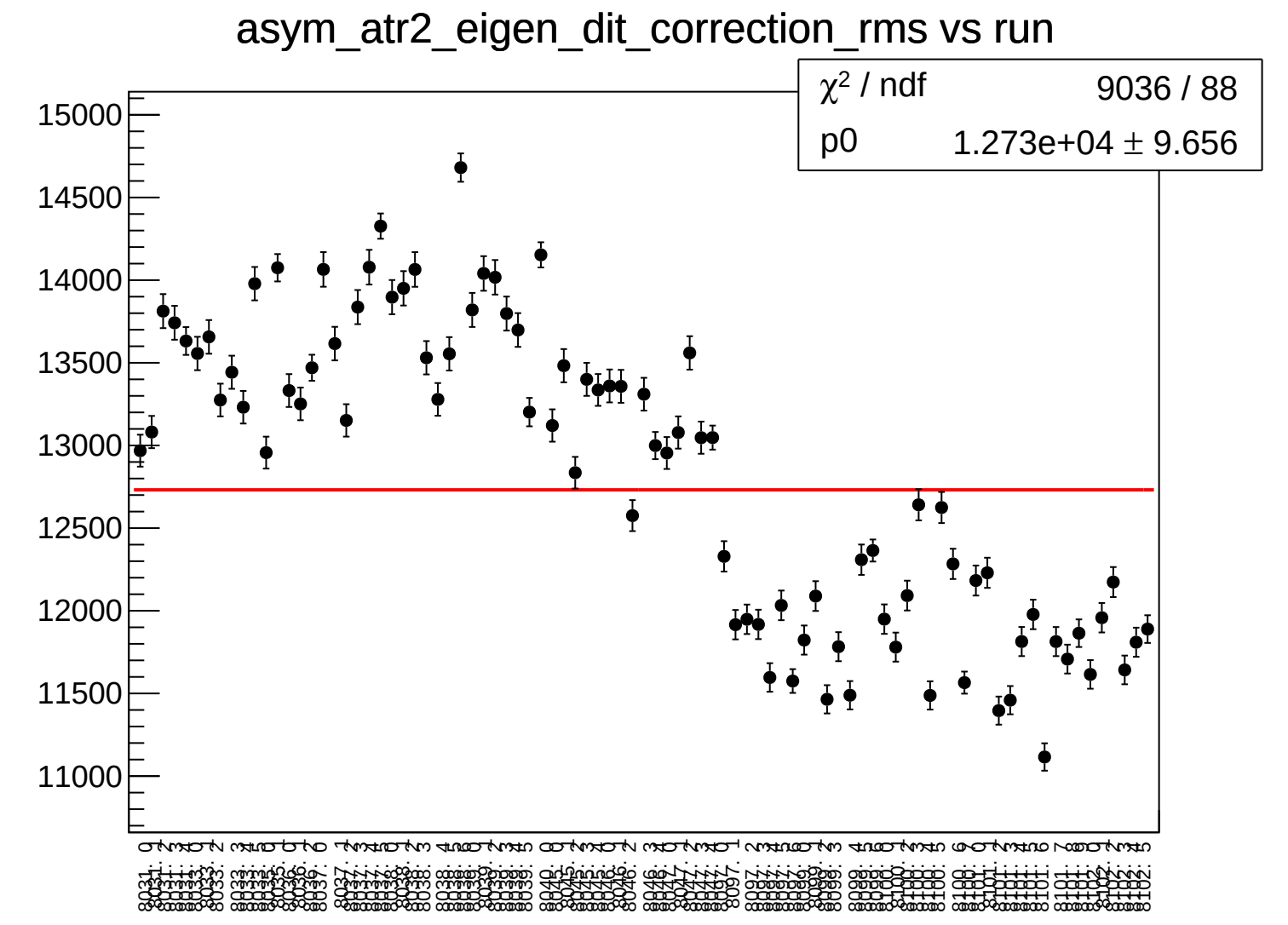

eigen_dit_asym_atr2_mean vs run
×10^3
χ² / ndf 102.2 / 88
p0 642.4 ± 2872
100
50
0
−50
−100
pull
Entries 89
Mean −128.7
Std Dev 0
2
1
0
−1
−2
−3

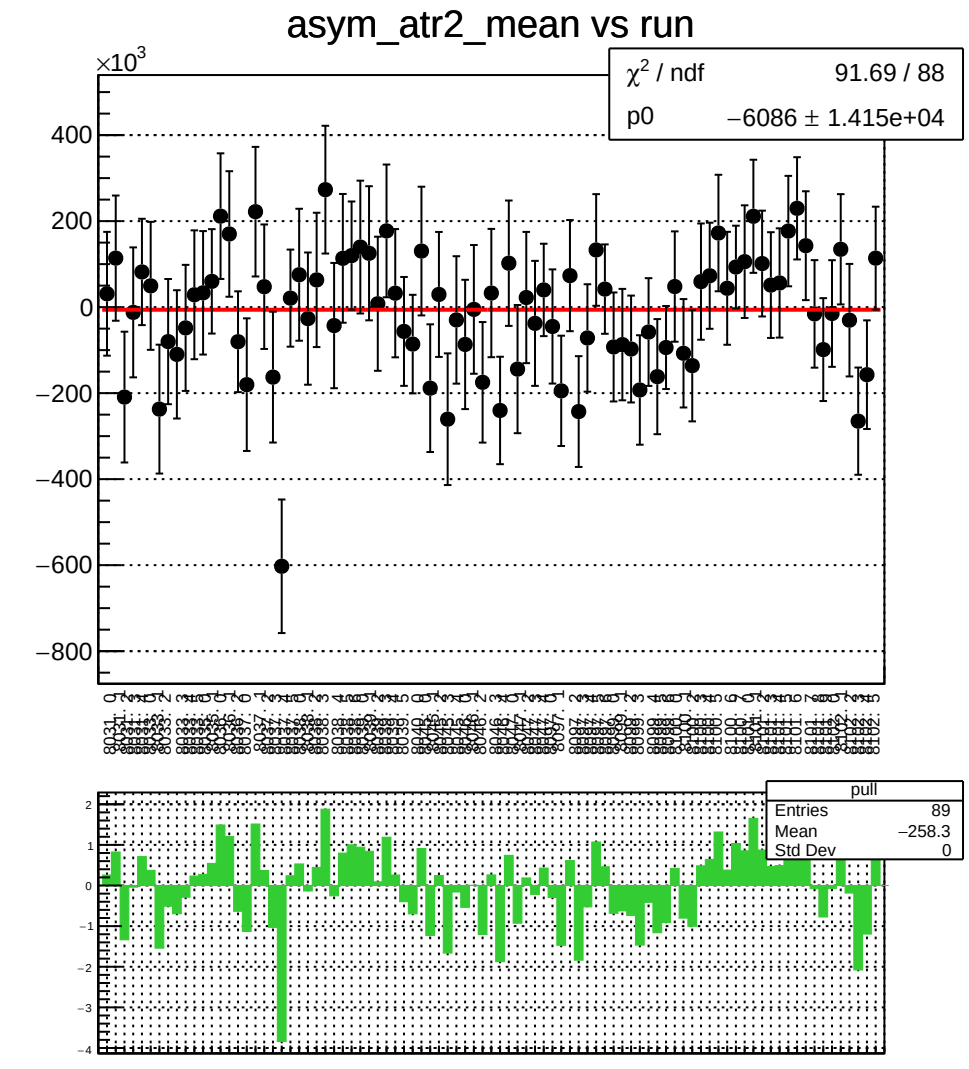

pull1D
Entries 89
Mean 0.009964
Std Dev 1.071
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

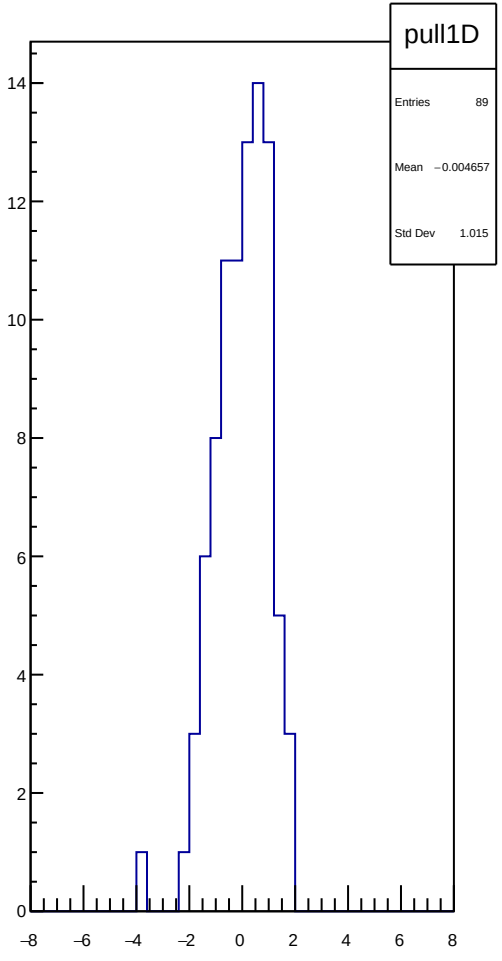

eigen_dit_asym_atr2_rms vs run
$\chi^2$ / ndf 1.733e+04 / 88
p0 2671 ± 2.031
3200
3100
3000
2900
2800
2700
2600
2500
2400
2300

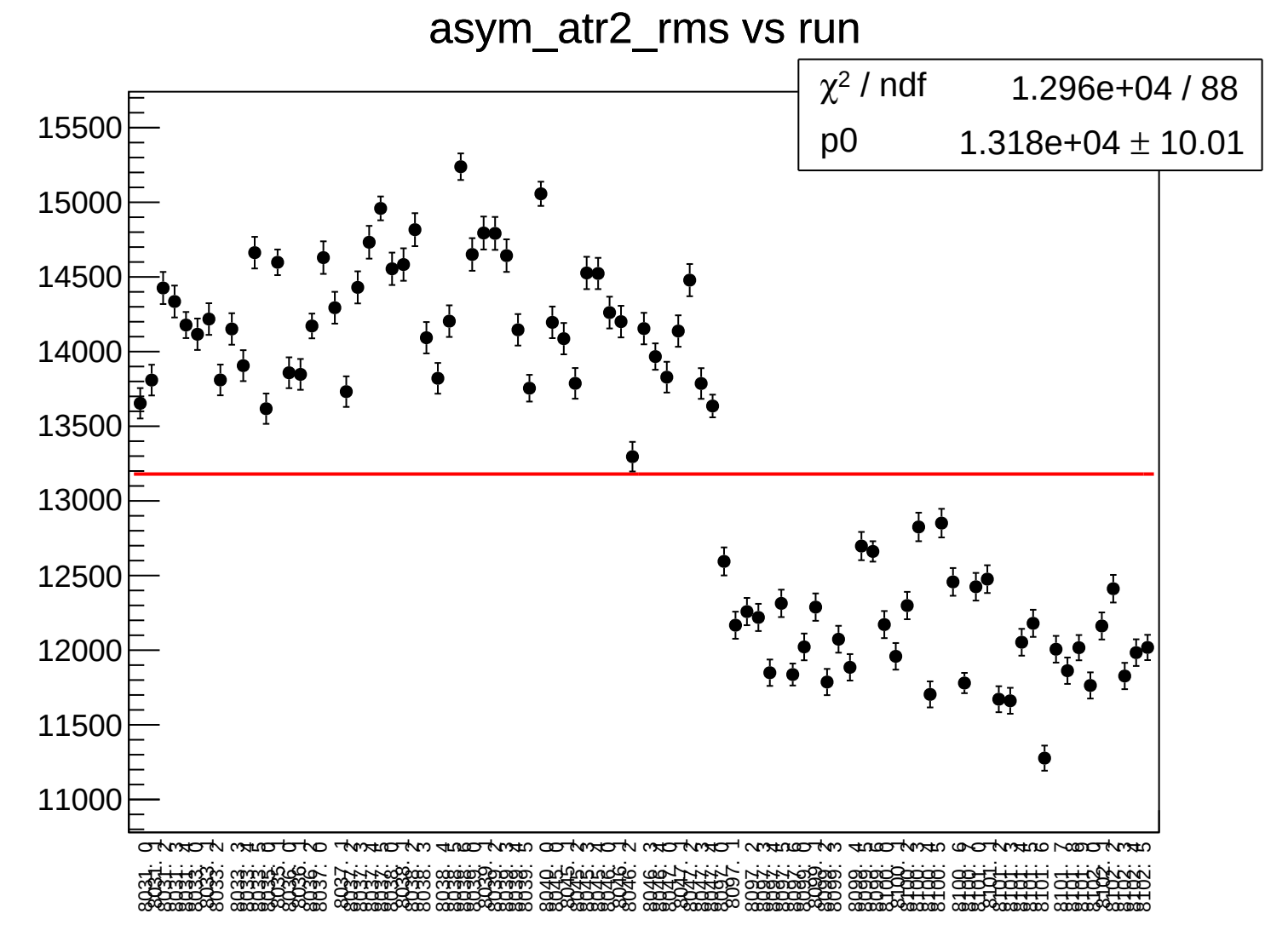

asym_atr2_eigen_dit_correction_mean vs run
×10^3
800
600
400
200
0
−200
−400
χ² / ndf 94.97 / 88
p0 6923 ± 1.366e+04
pull
Entries 89
Mean −256.8
Std Dev 0
3
2
1
0
−1
−2

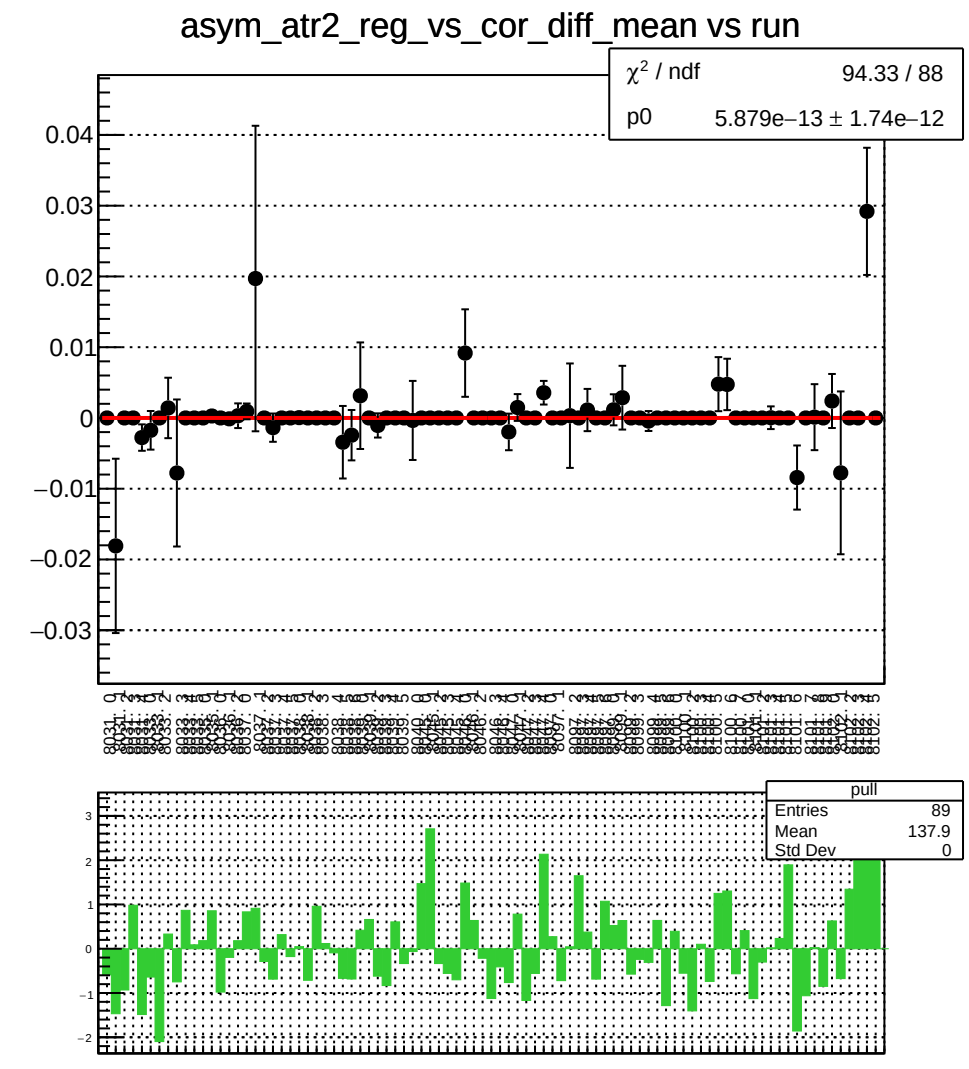

pull1D
Entries 89
Mean 0.005956
Std Dev 1.033
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

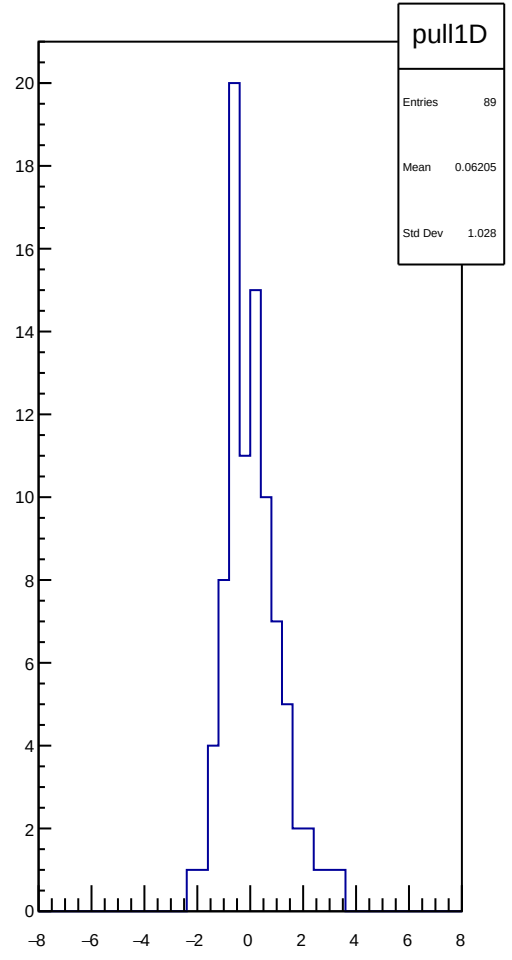

asym_atr2_eigen_dit_correction_rms vs run
χ² / ndf 9036 / 88
p0 1.273e+04 ± 9.656
15000
14500
14000
13500
13000
12500
12000
11500
11000

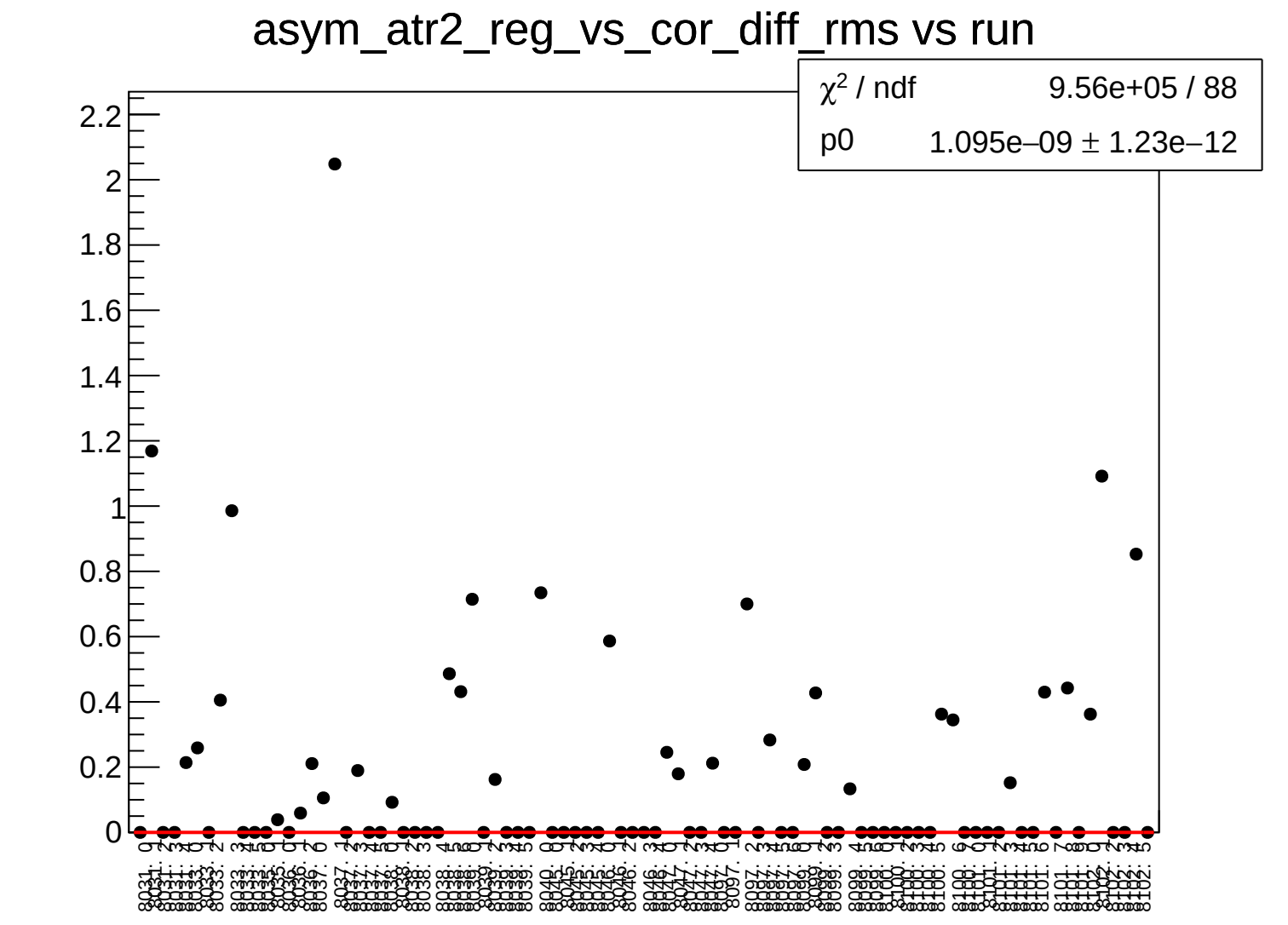

asym_atr2_mean vs run
×10^3
χ² / ndf 91.69 / 88
p0 −6086 ± 1.415e+04
pull
Entries 89
Mean −258.3
Std Dev 0

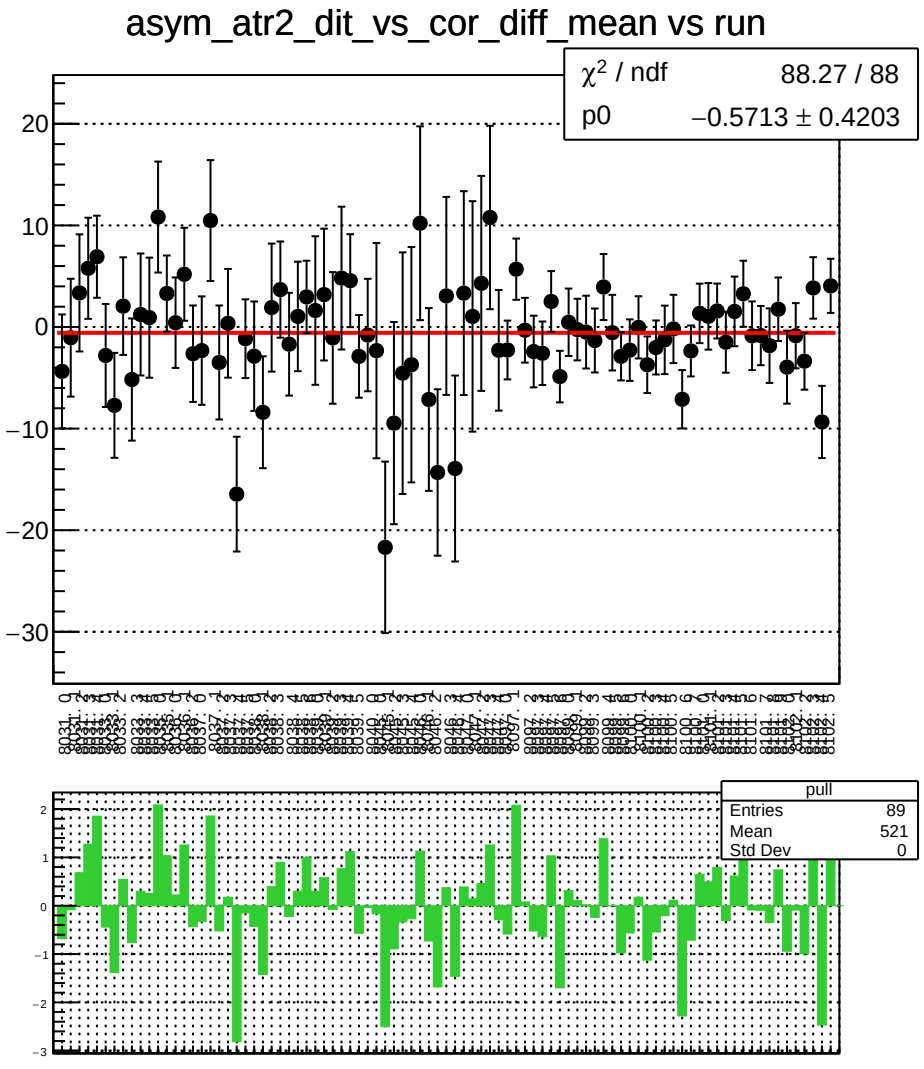

pull1D
Entries 89
Mean −0.004657
Std Dev 1.015

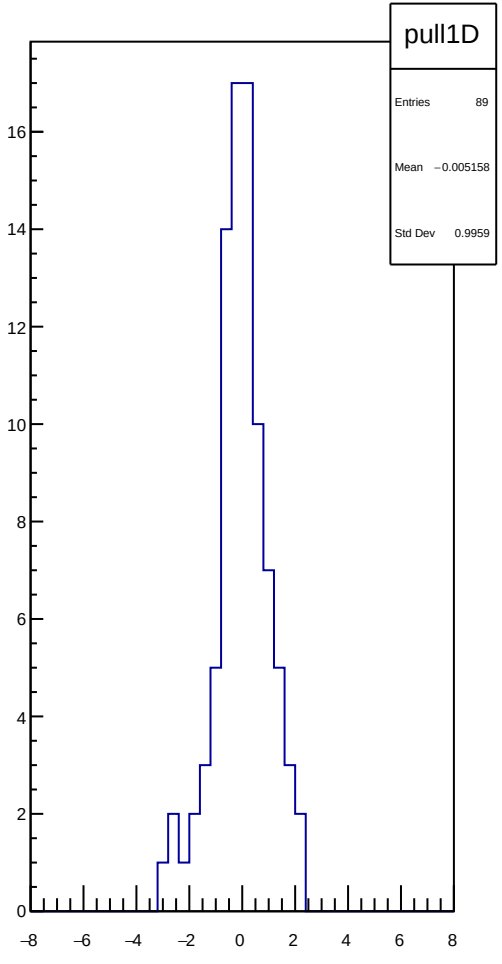

asym_atr2_rms vs run
χ² / ndf 1.296e+04 / 88
p0 1.318e+04 ± 10.01
15500
15000
14500
14000
13500
13000
12500
12000
11500
11000

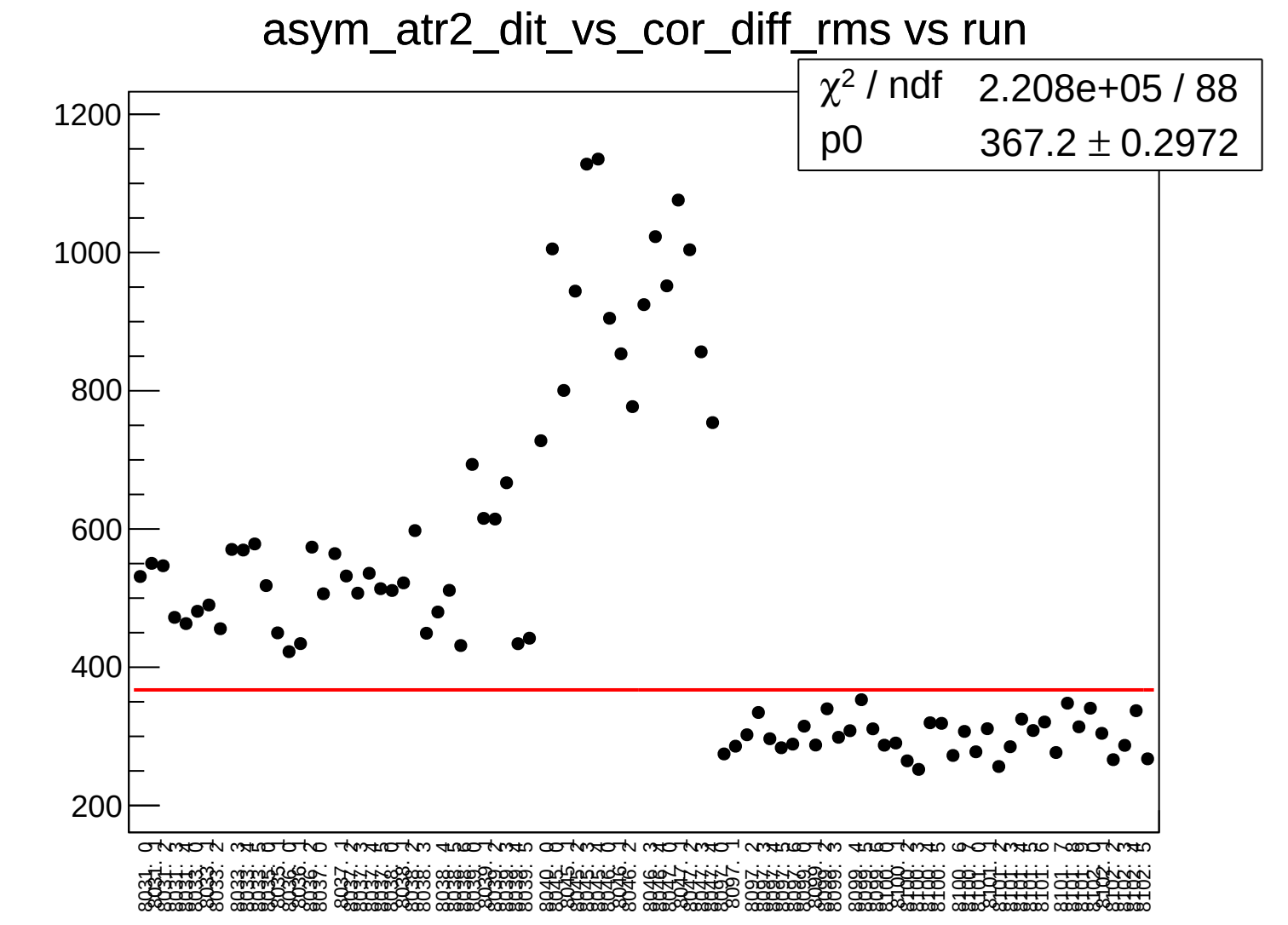

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 94.33 / 88
p0 5.879e−13 ± 1.74e−12
pull
Entries 89
Mean 137.9
Std Dev 0

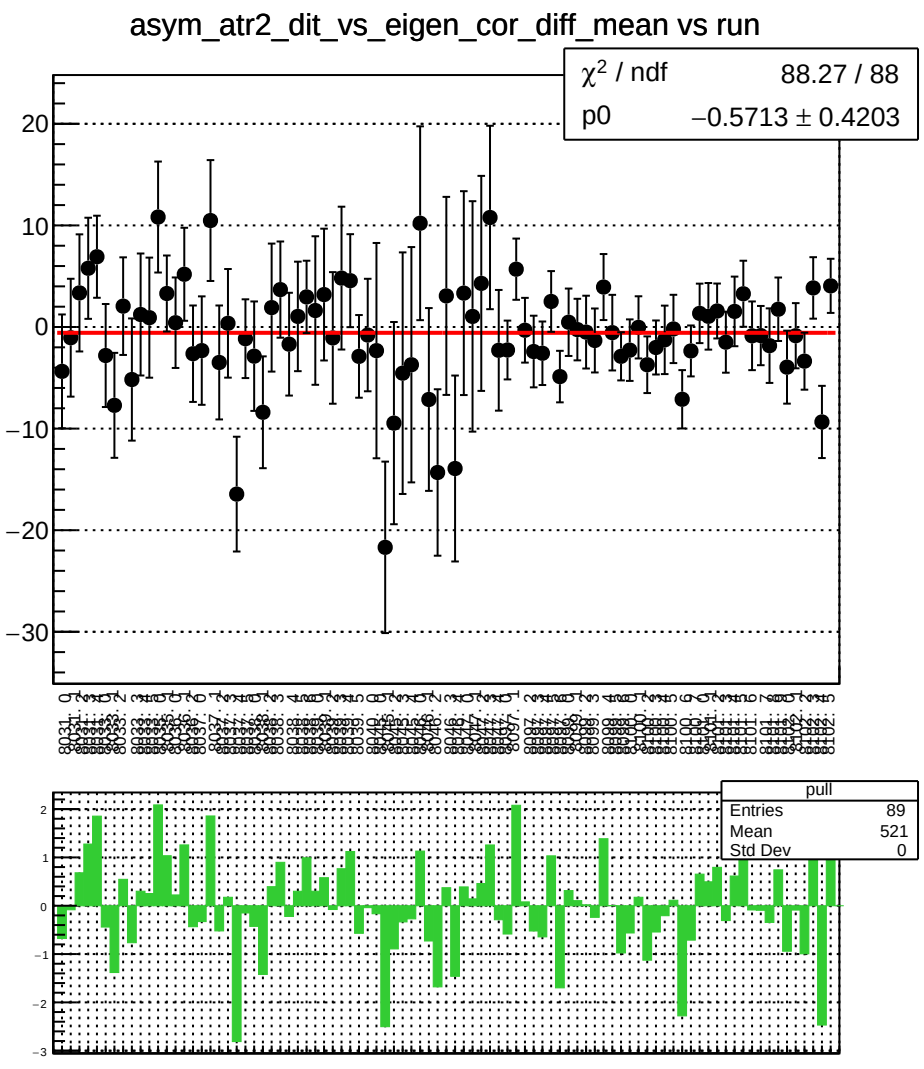

pull1D
Entries 89
Mean 0.06205
Std Dev 1.028

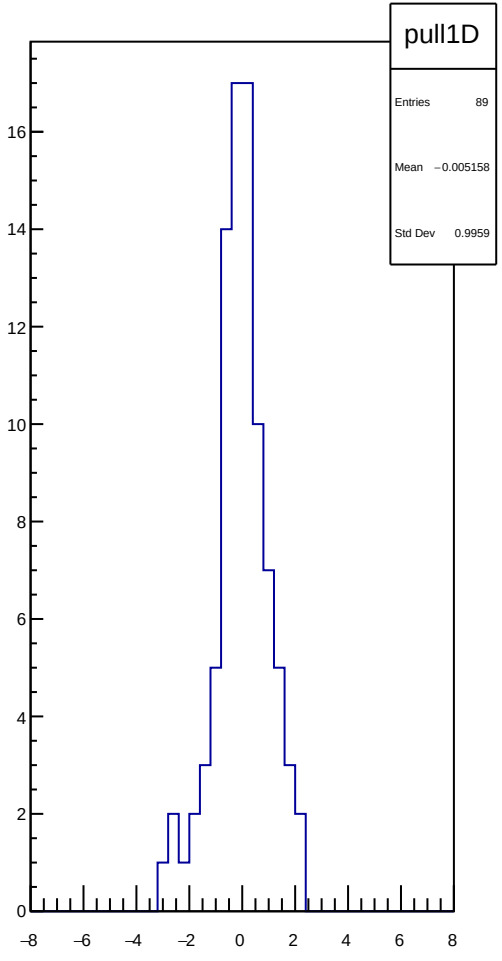

asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 9.56e+05 / 88
p0 1.095e−09 ± 1.23e−12
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

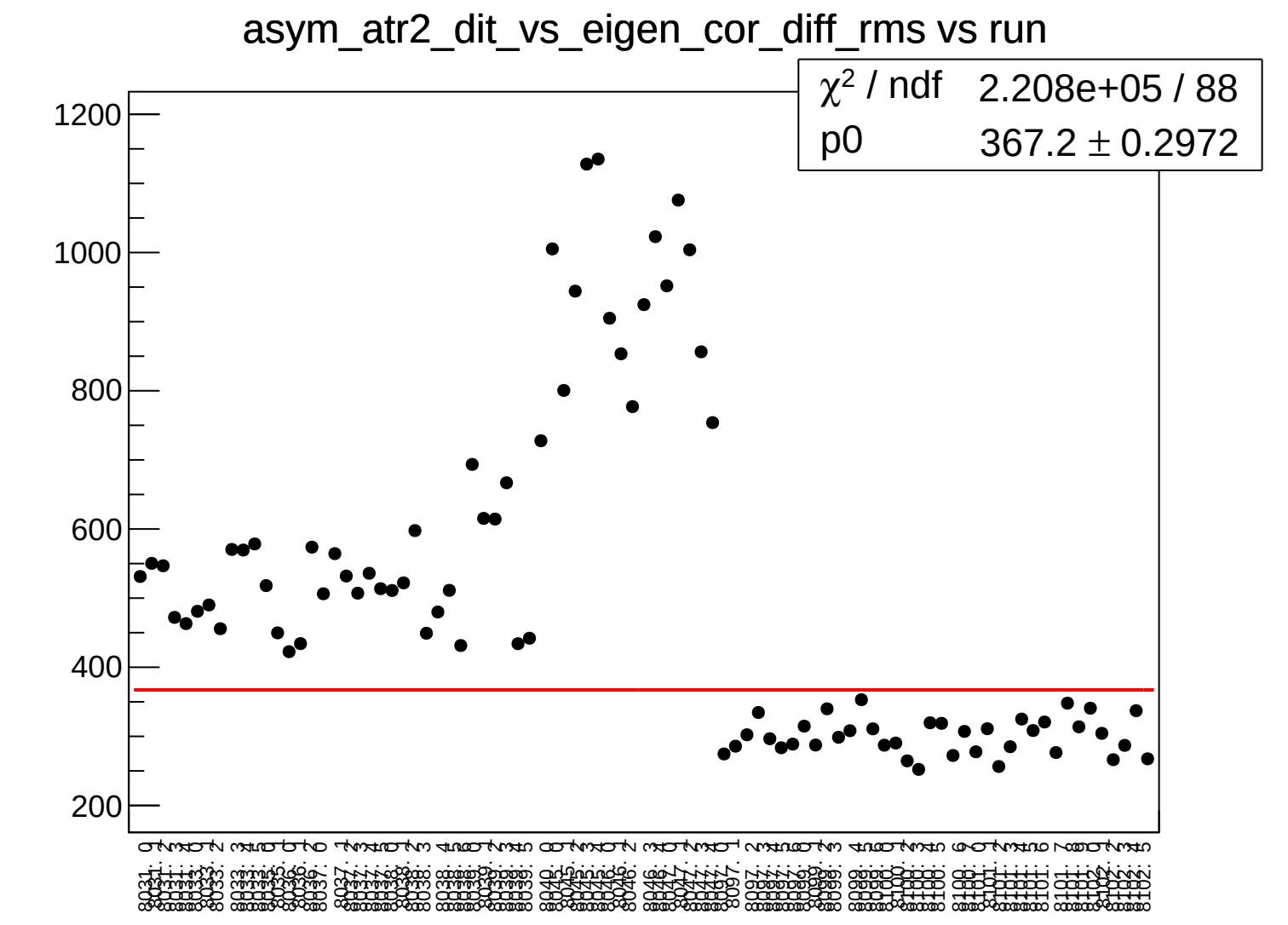

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 88.27 / 88
p0 −0.5713 ± 0.4203
pull
Entries 89
Mean 521
Std Dev 0

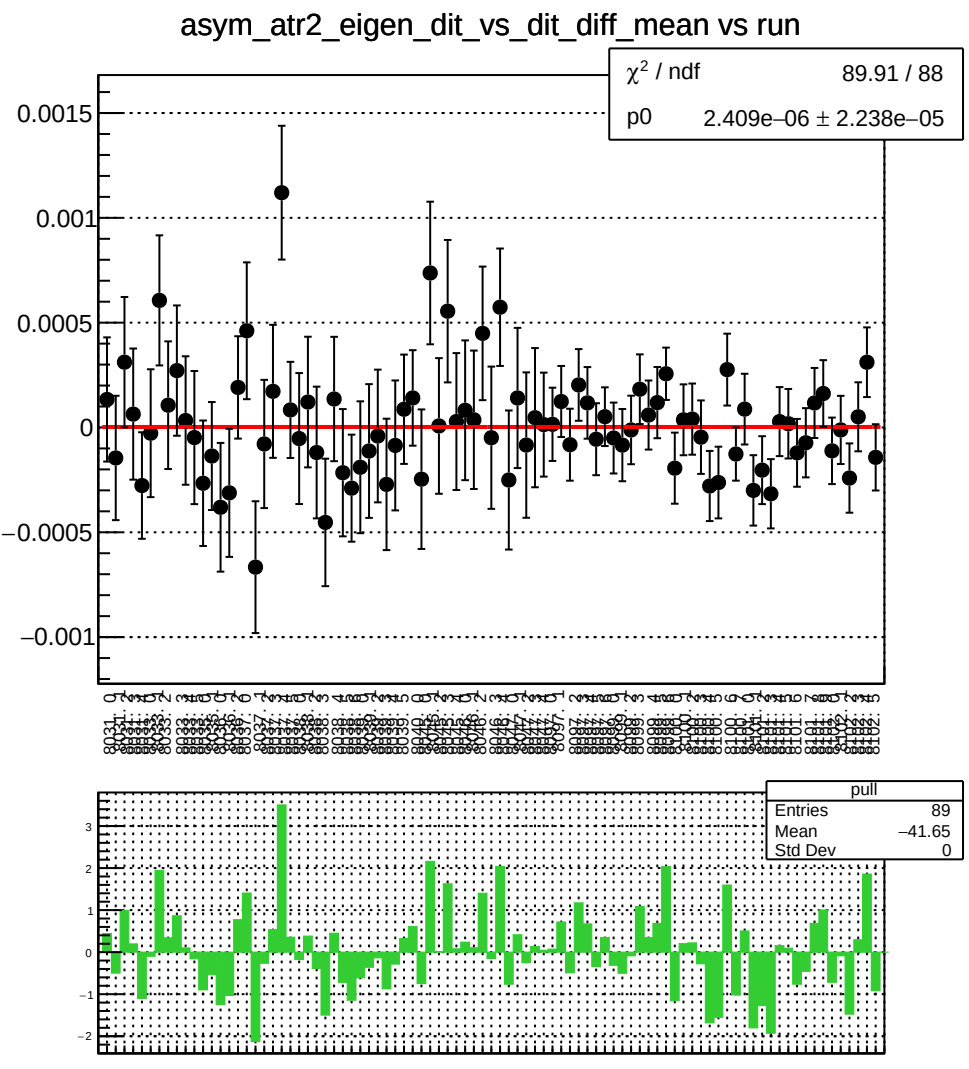

pull1D
Entries 89
Mean −0.005158
Std Dev 0.9959

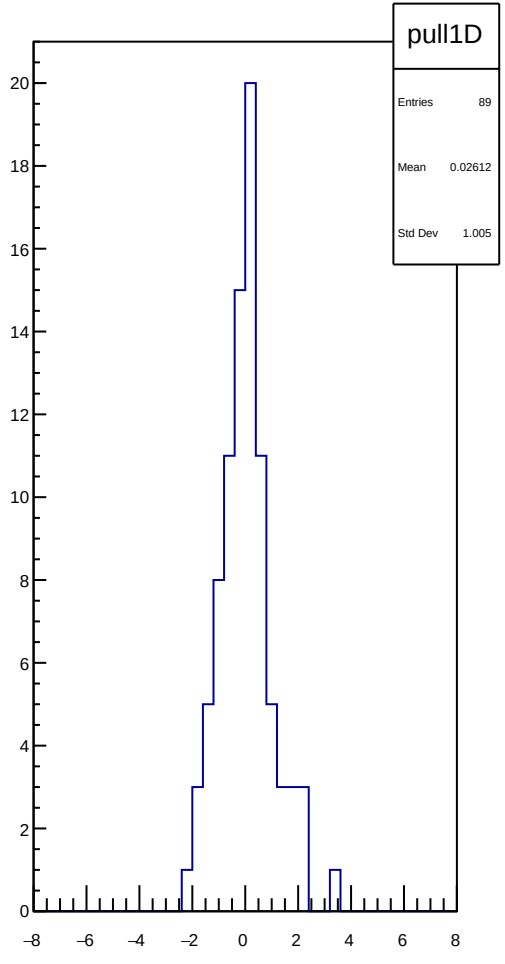

asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 2.208e+05 / 88
p0 367.2 ± 0.2972
1200
1000
800
600
400
200

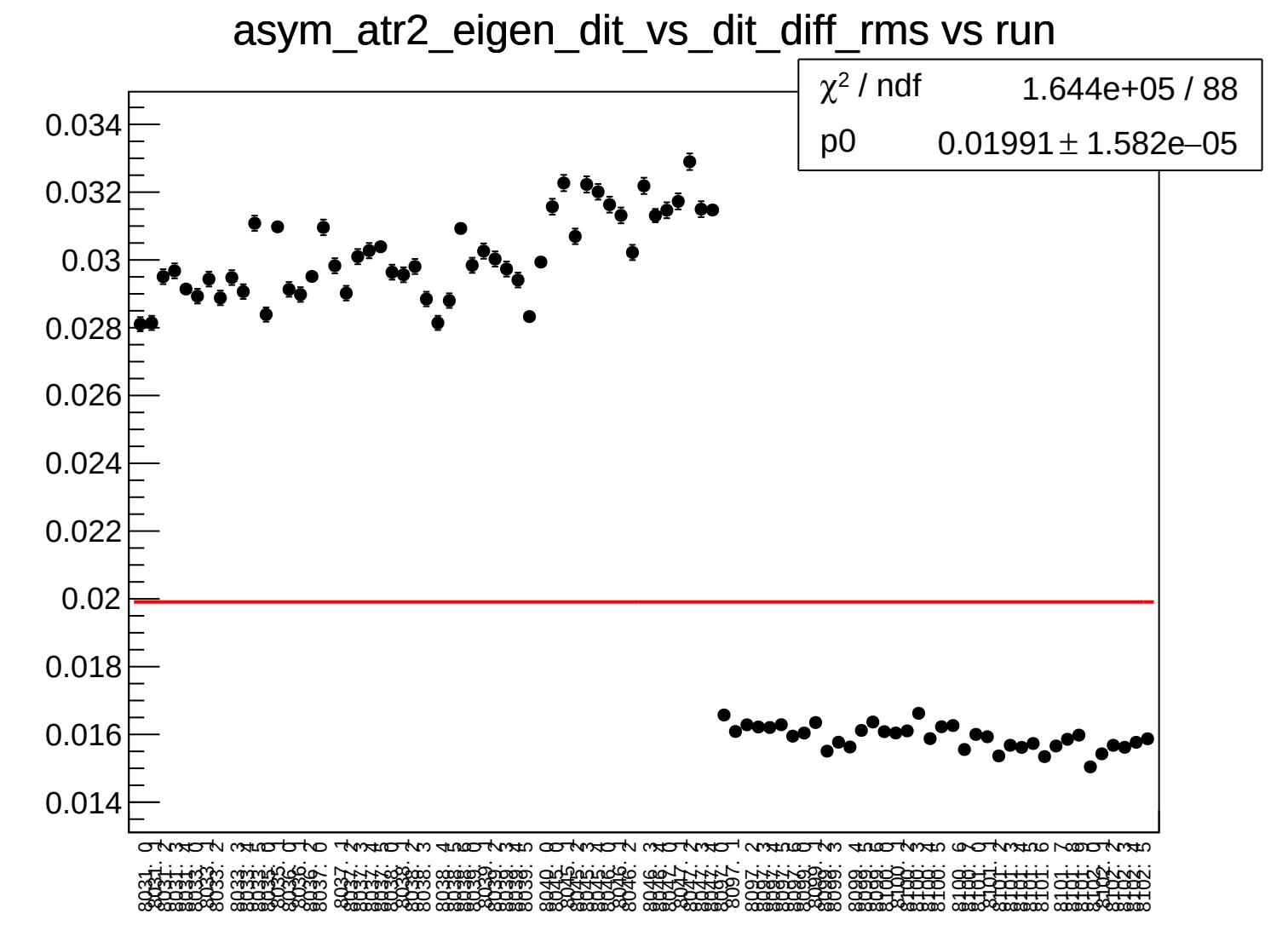

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.27 / 88
p0 −0.5713 ± 0.4203
pull
Entries 89
Mean 521
Std Dev 0

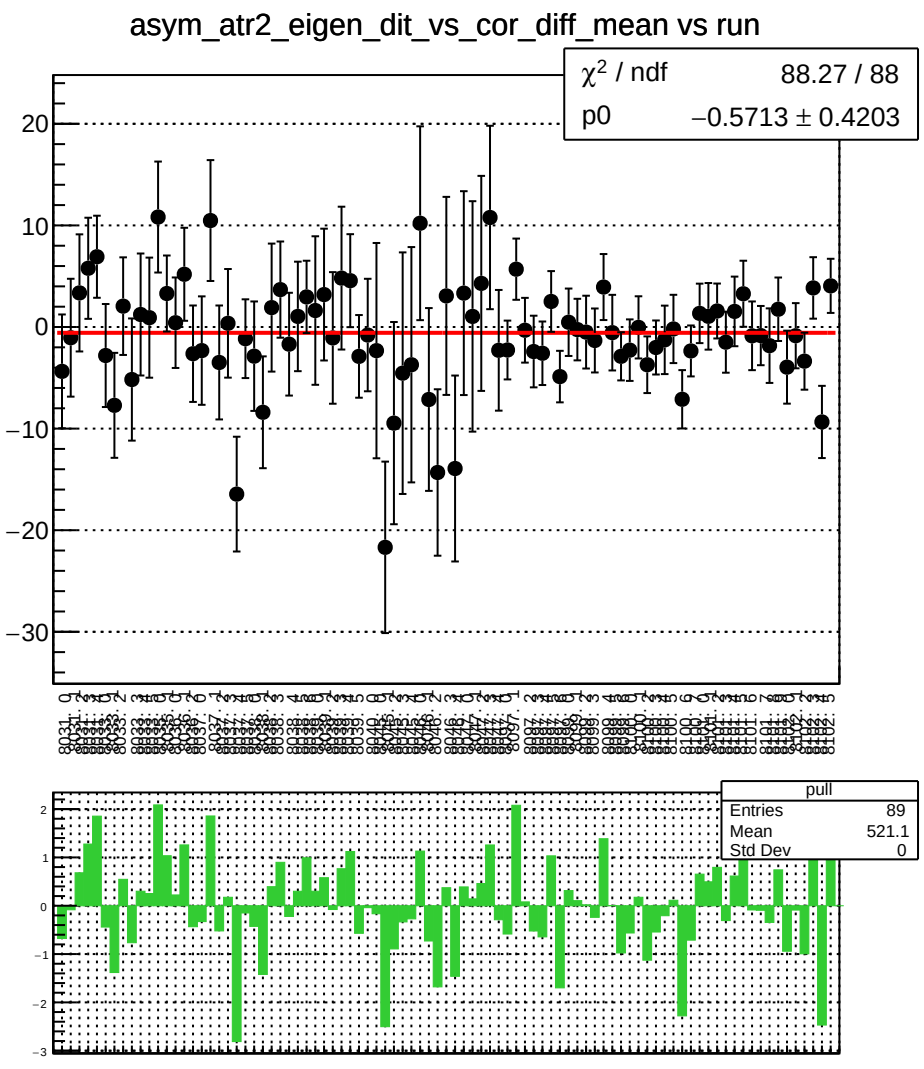

pull1D
Entries 89
Mean −0.005158
Std Dev 0.9959

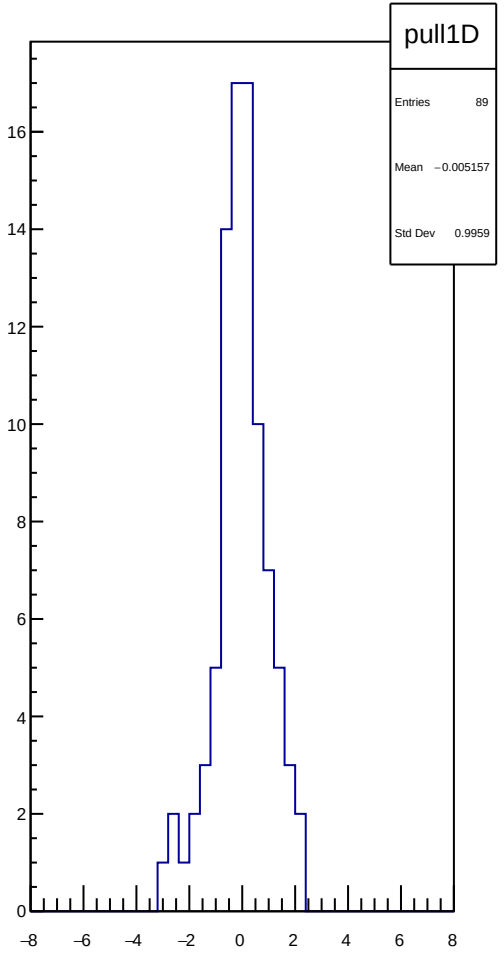

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.208e+05 / 88
p0 367.2 ± 0.2972
1200
1000
800
600
400
200

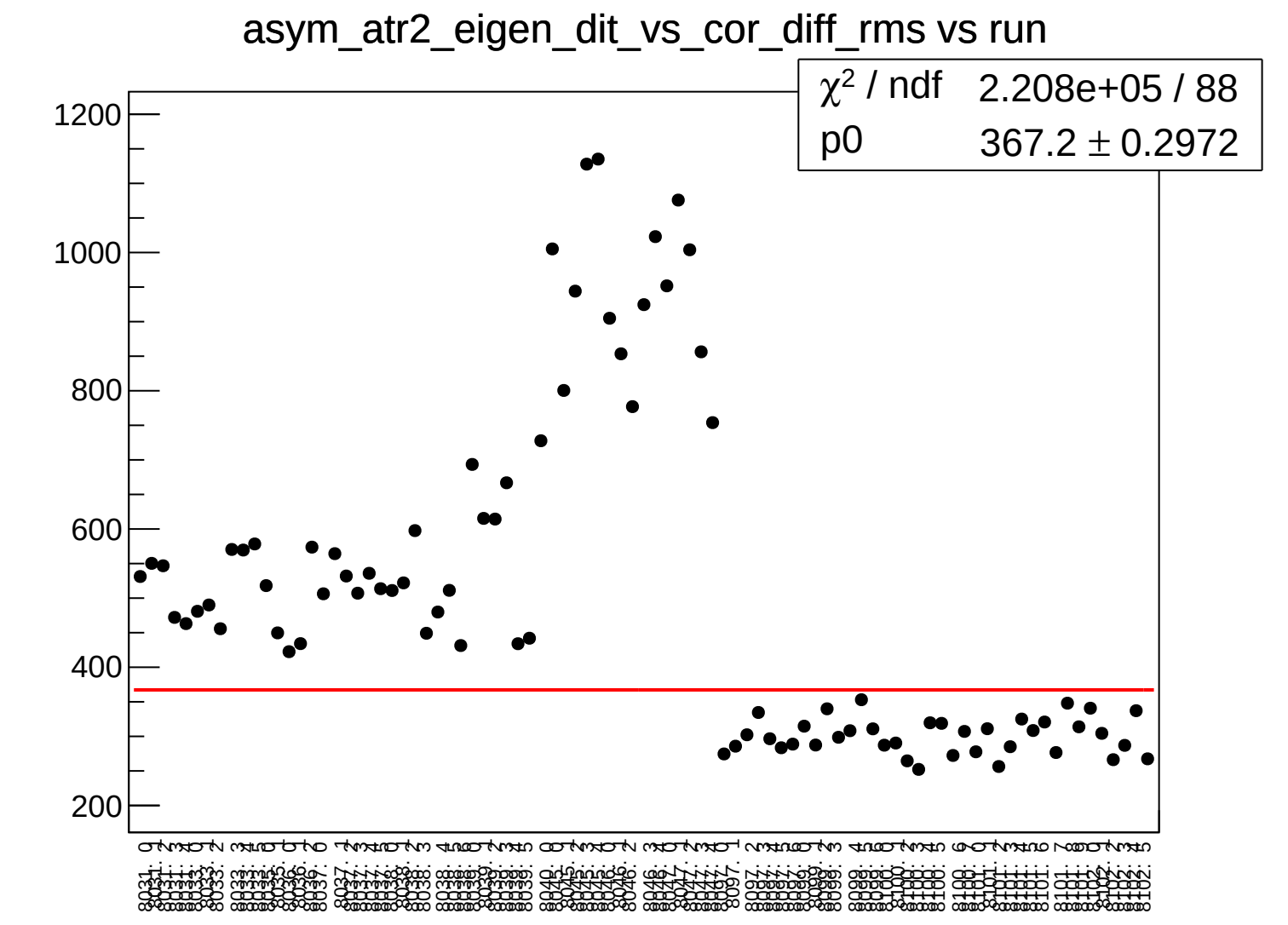

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 89.91 / 88
p0 2.409e−06 ± 2.238e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 89
Mean −41.65
Std Dev 0
3
2
1
0
−1
−2

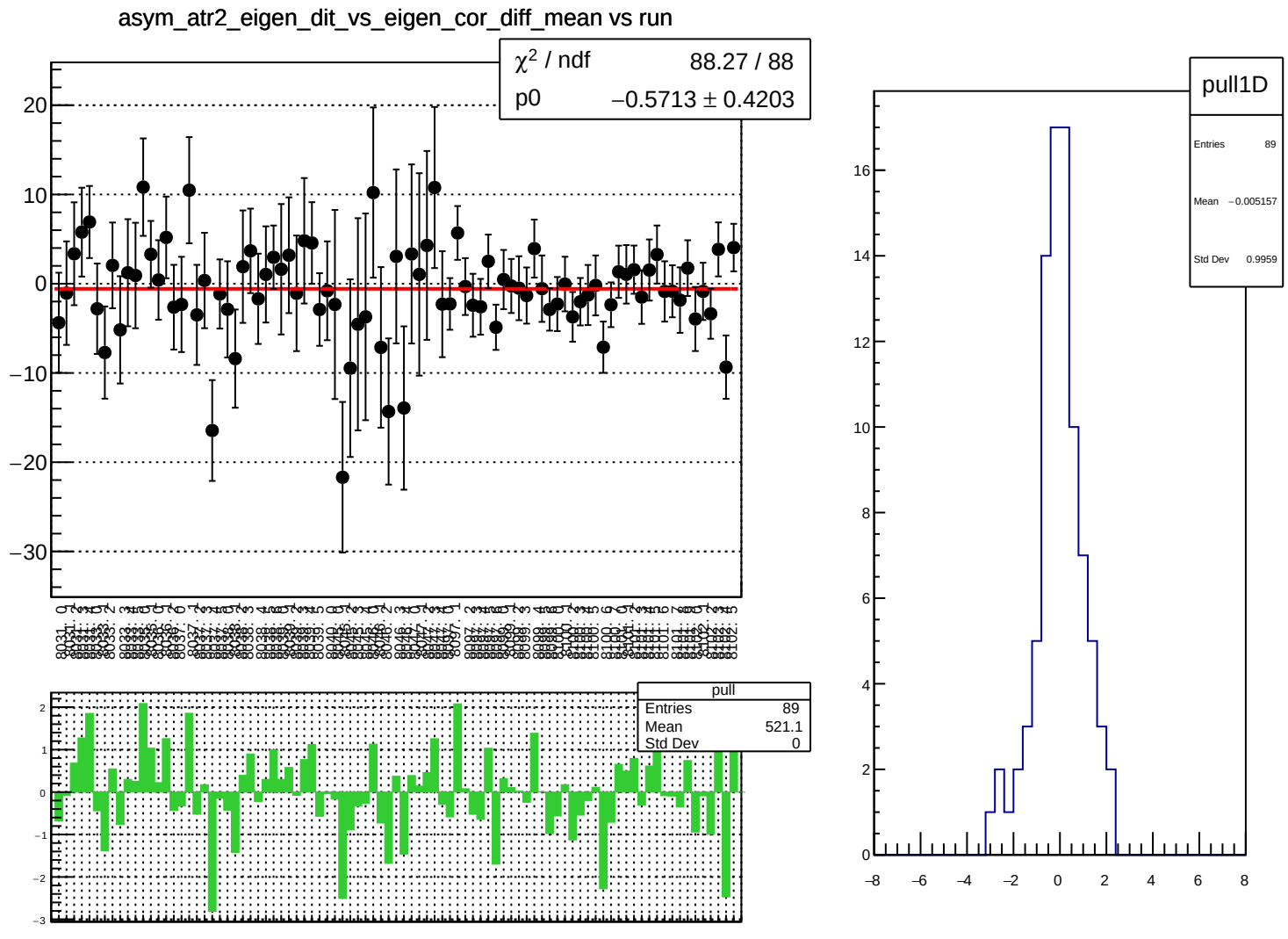

pull1D
Entries 89
Mean 0.02612
Std Dev 1.005
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

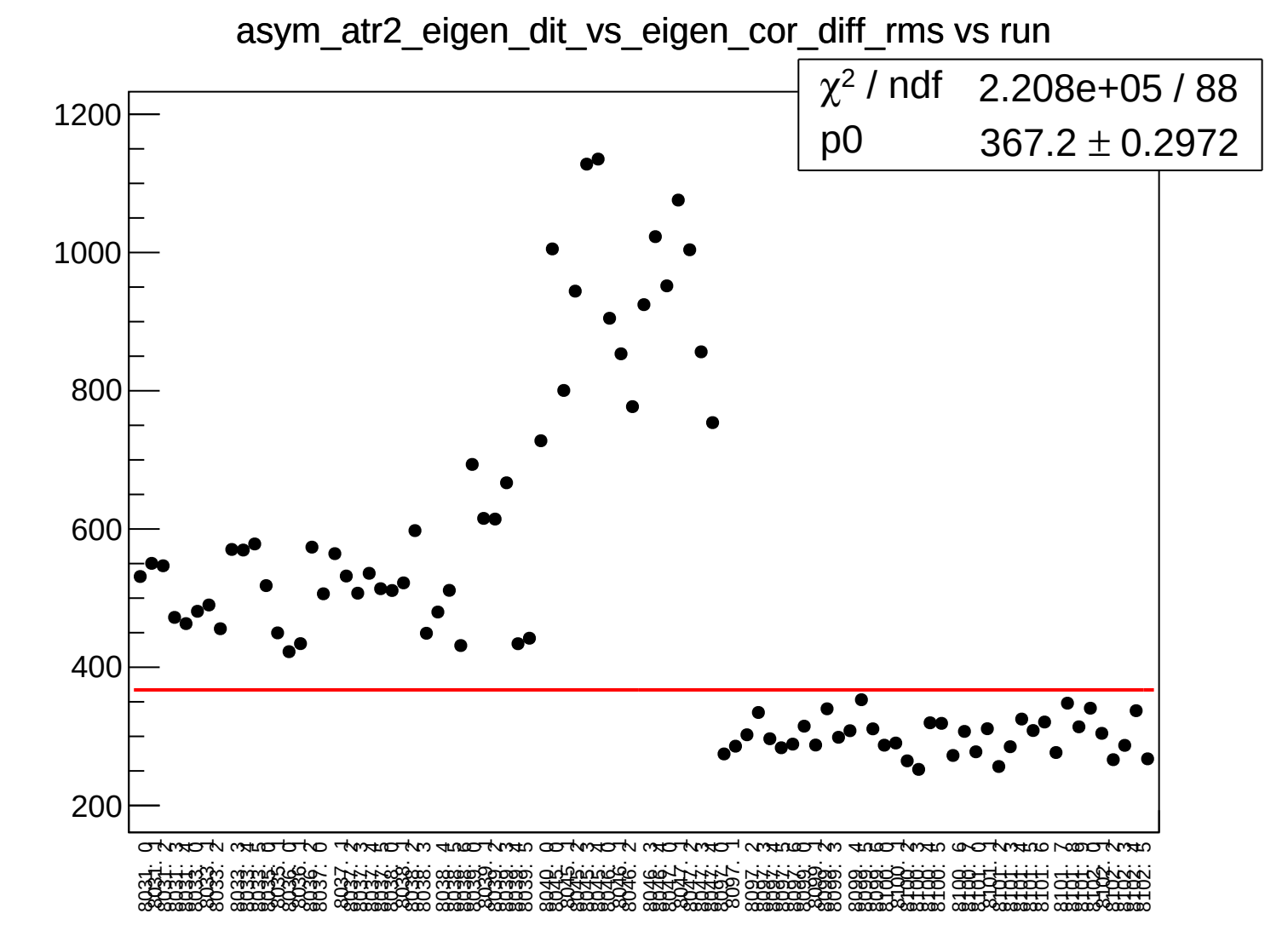

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.644e+05 / 88
p0 0.01991 ± 1.582e–05
0.034
0.032
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014

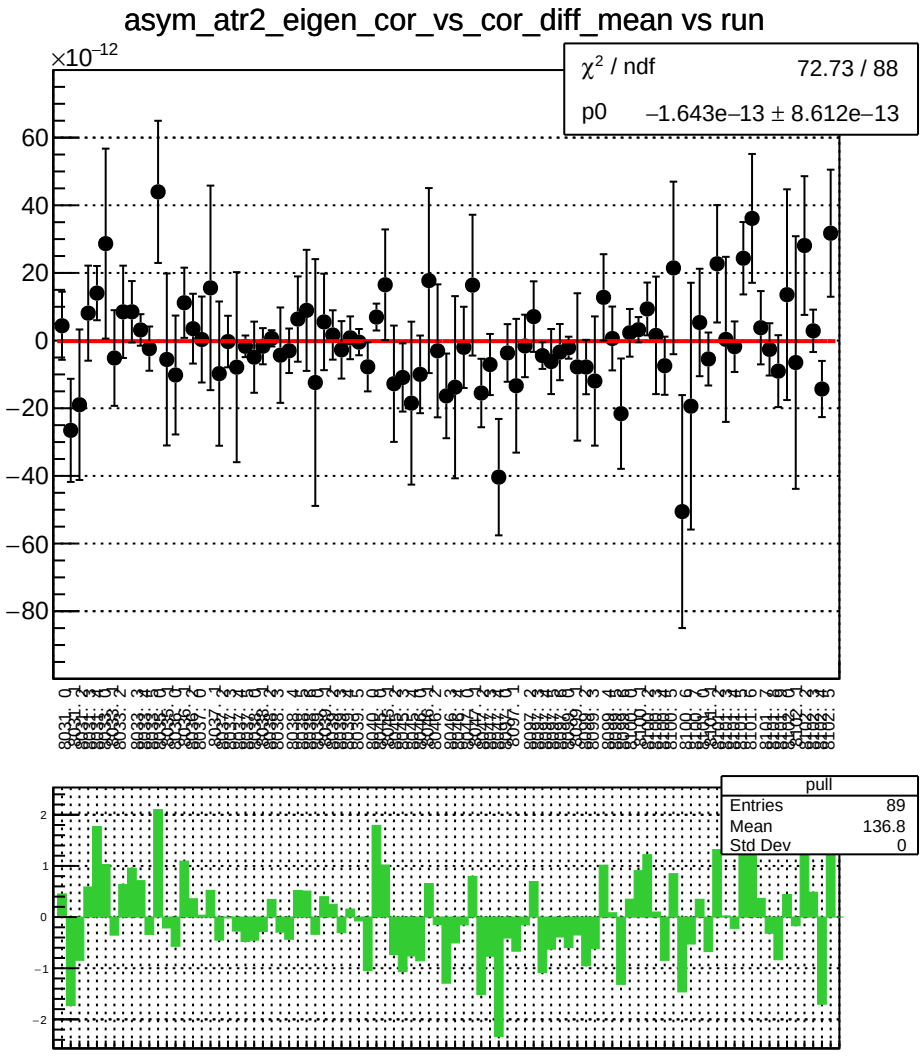

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.27 / 88
p0 −0.5713 ± 0.4203
pull
Entries 89
Mean 521.1
Std Dev 0

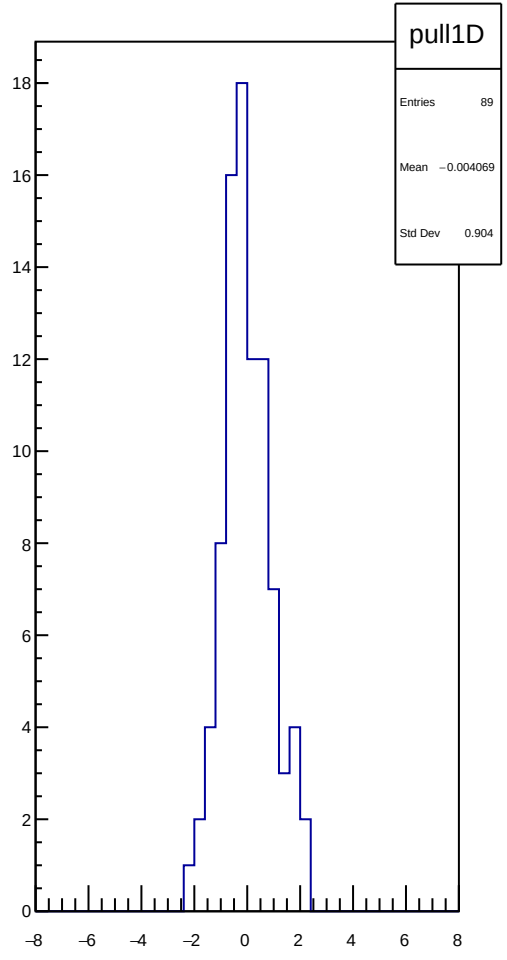

pull1D
Entries 89
Mean −0.005157
Std Dev 0.9959

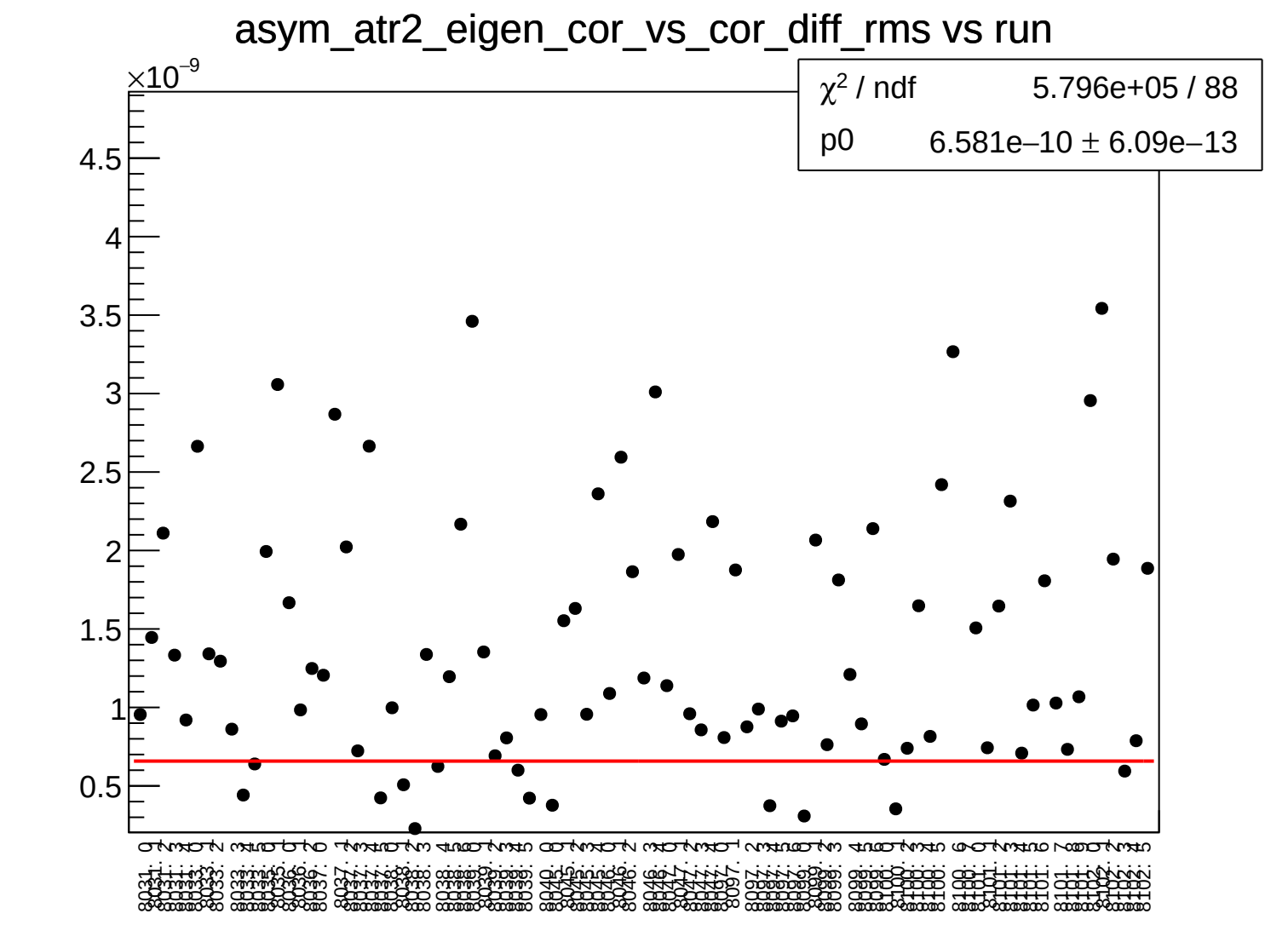

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.208e+05 / 88
p0 367.2 ± 0.2972
1200
1000
800
600
400
200

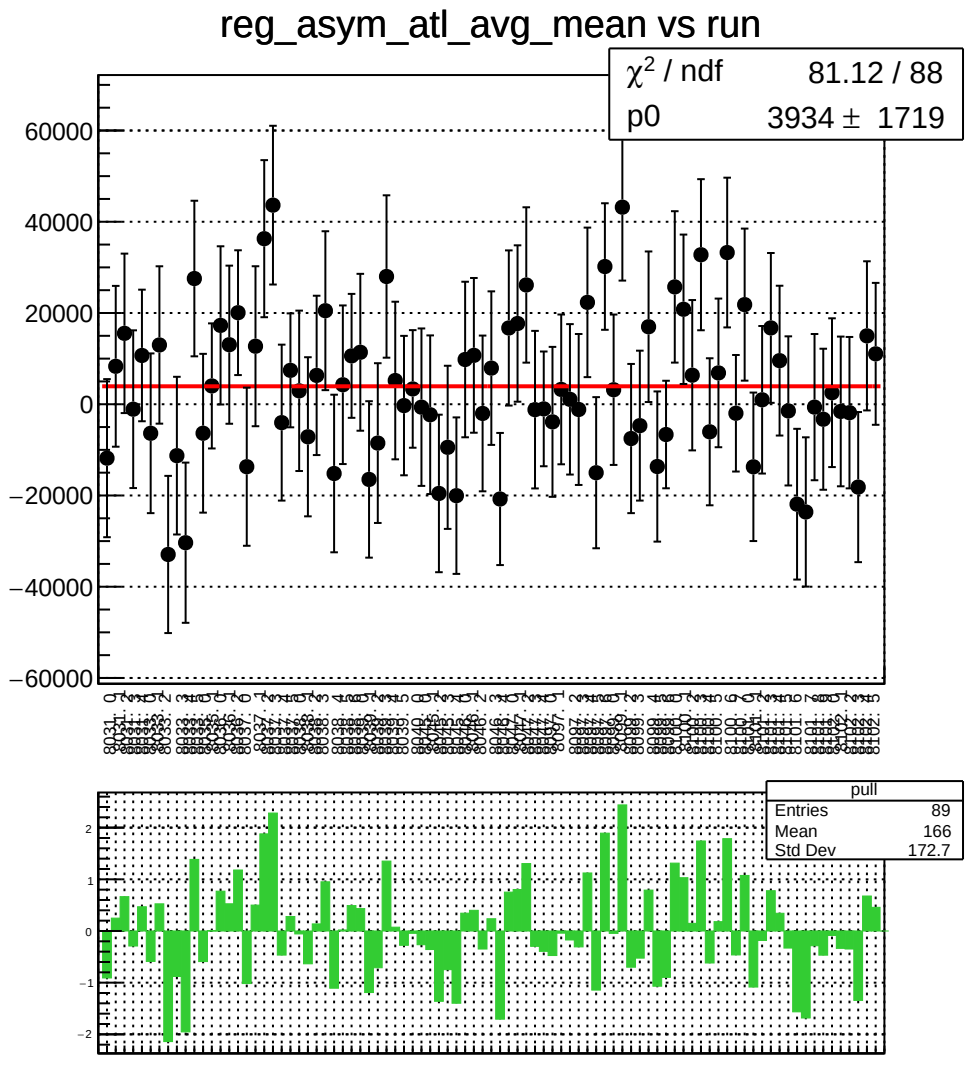

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.27 / 88
p0 −0.5713 ± 0.4203
pull
Entries 89
Mean 521.1
Std Dev 0
pull1D
Entries 89
Mean −0.005157
Std Dev 0.9959

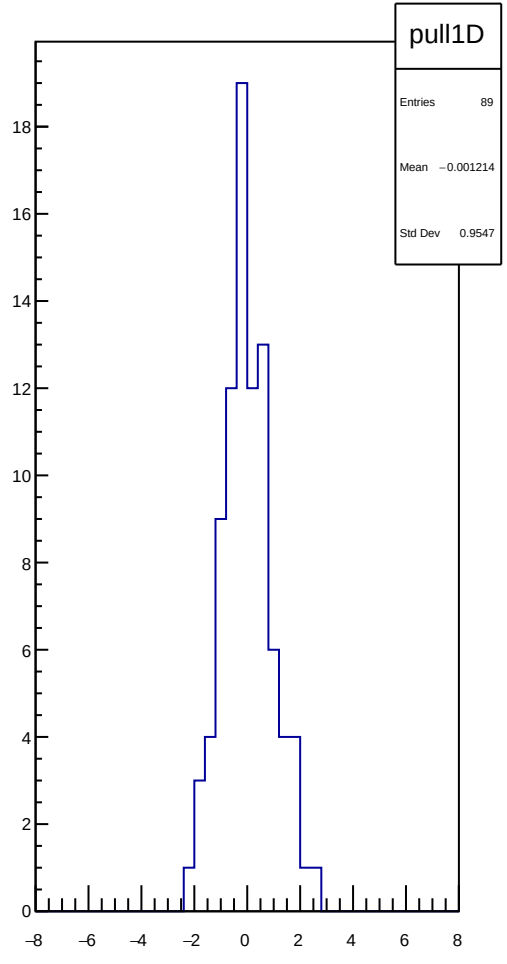

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.208e+05 / 88
p0 367.2 ± 0.2972
1200
1000
800
600
400
200

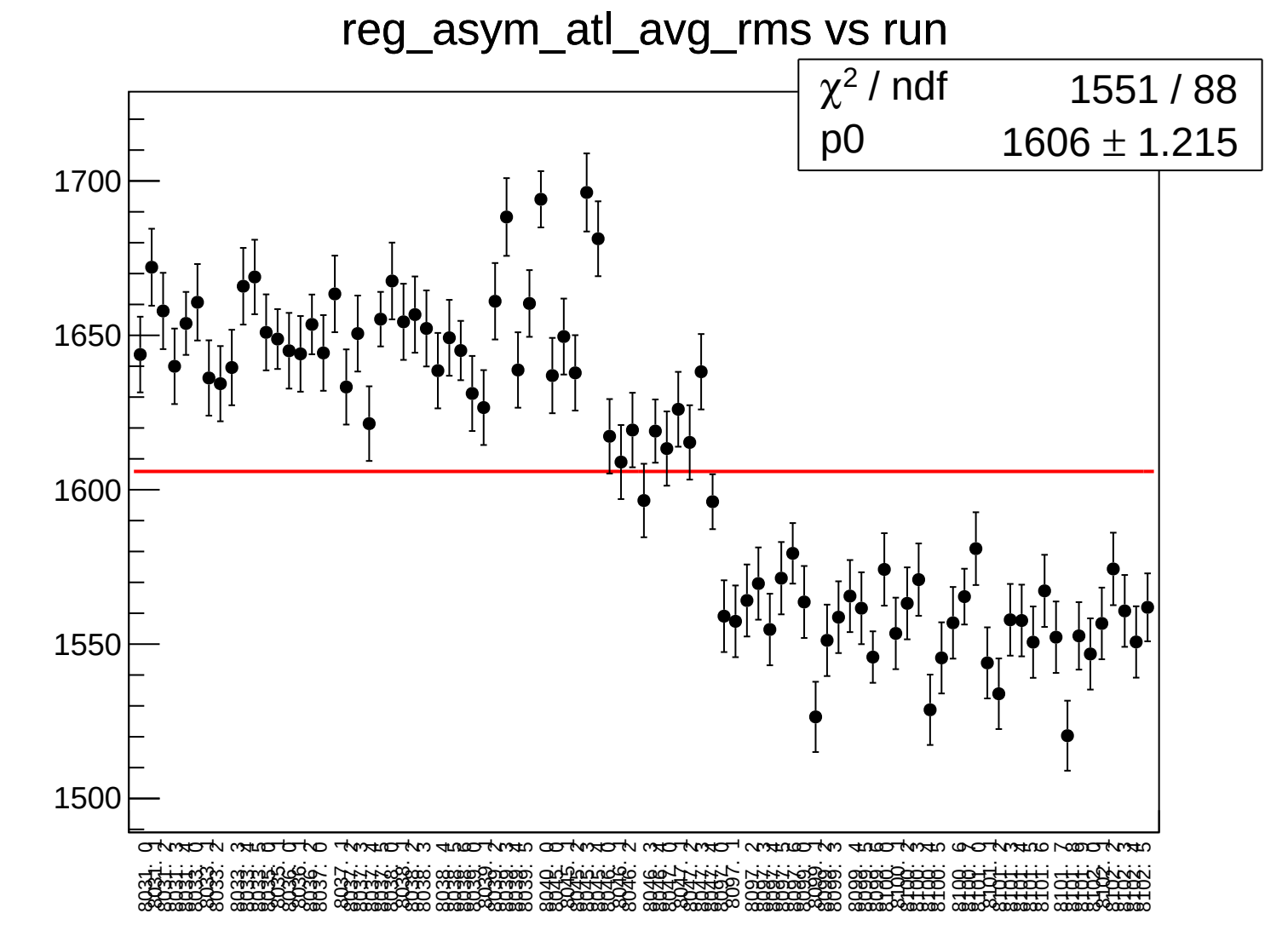

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.73 / 88
p0 −1.643e−13 ± 8.612e−13
pull
Entries 89
Mean 136.8
Std Dev 0

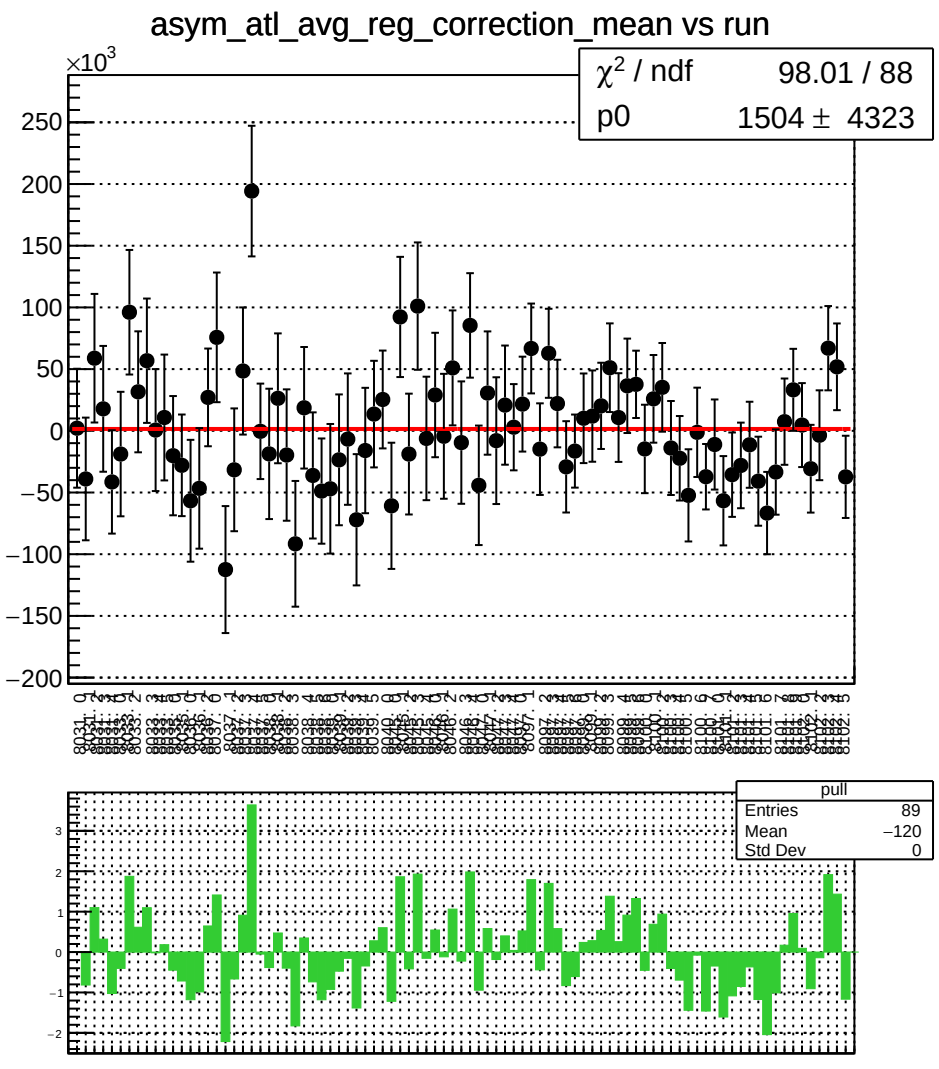

pull1D
Entries 89
Mean −0.004069
Std Dev 0.904

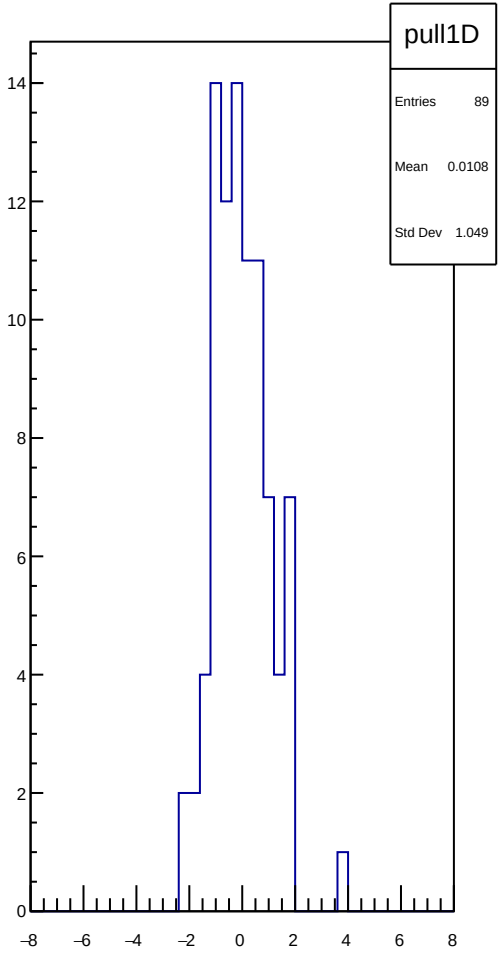

asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.796e+05 / 88
p0 6.581e−10 ± 6.09e−13
4.5
4
3.5
3
2.5
2
1.5
1
0.5

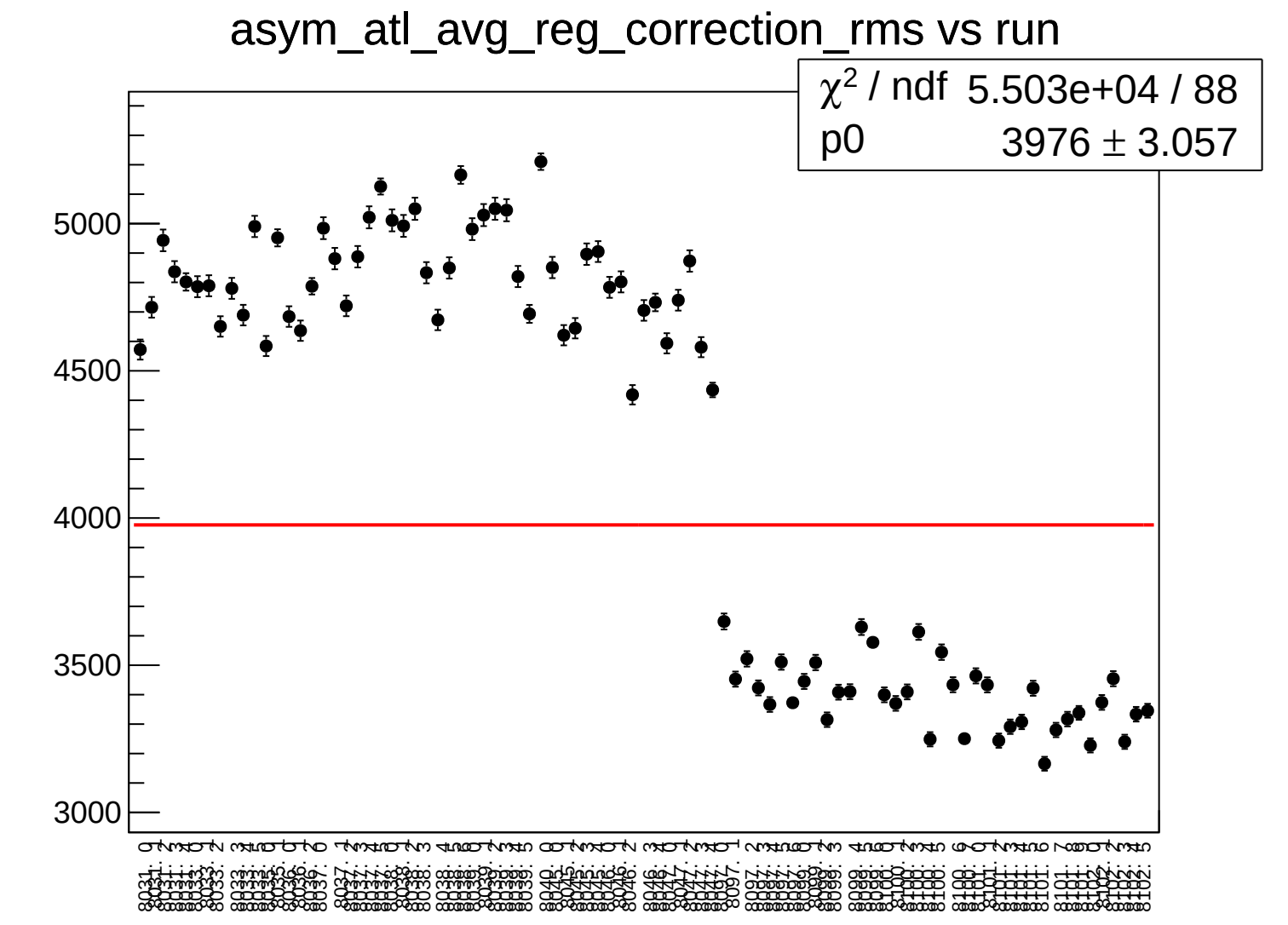

reg_asym_atl_avg_mean vs run
χ² / ndf 81.12 / 88
p0 3934 ± 1719
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 166
Std Dev 172.7
2
1
0
−1
−2

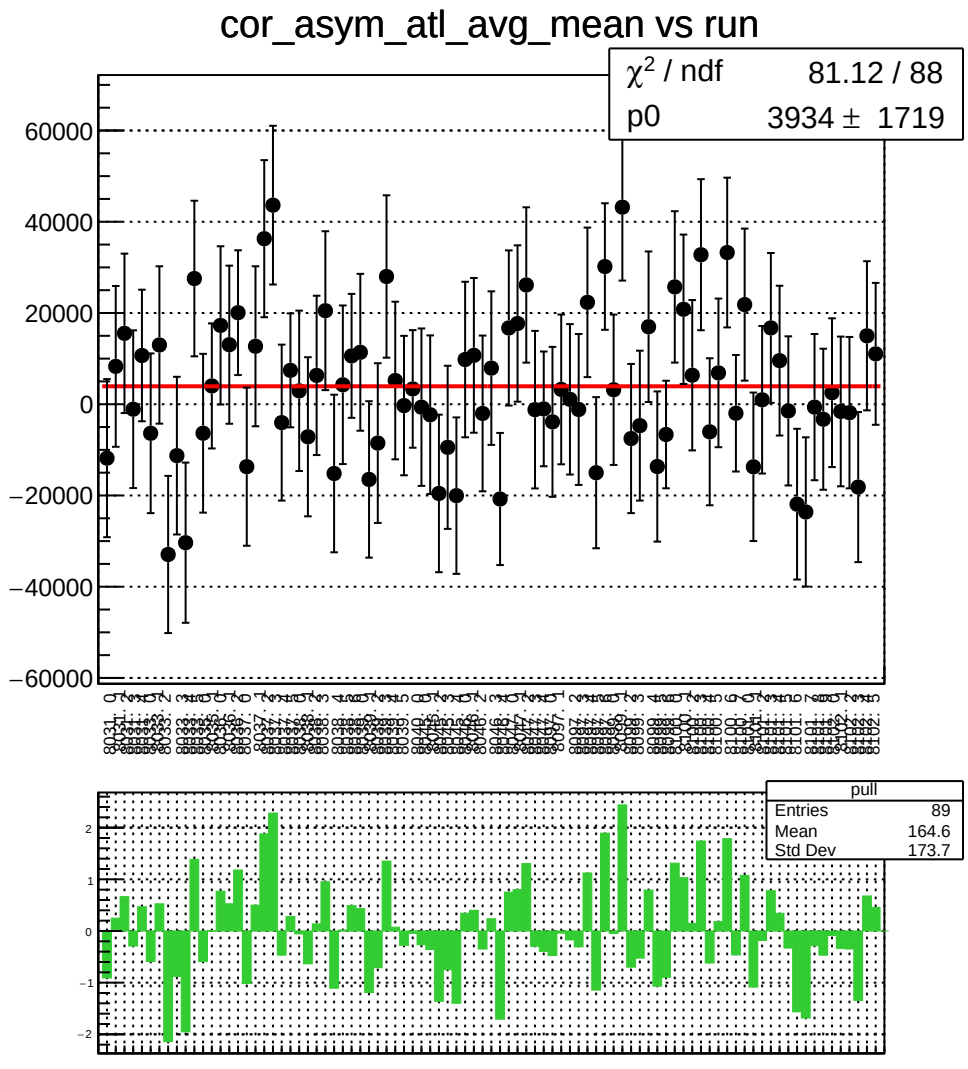

pull1D
Entries 89
Mean −0.001214
Std Dev 0.9547
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

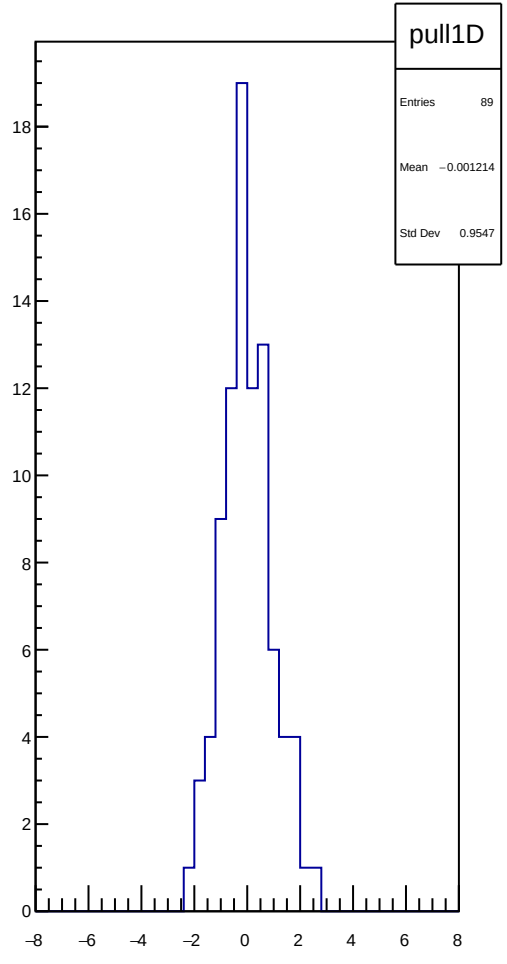

reg_asym_atl_avg_rms vs run
$\chi^2$ / ndf 1551 / 88
p0 1606 ± 1.215
1700
1650
1600
1550
1500

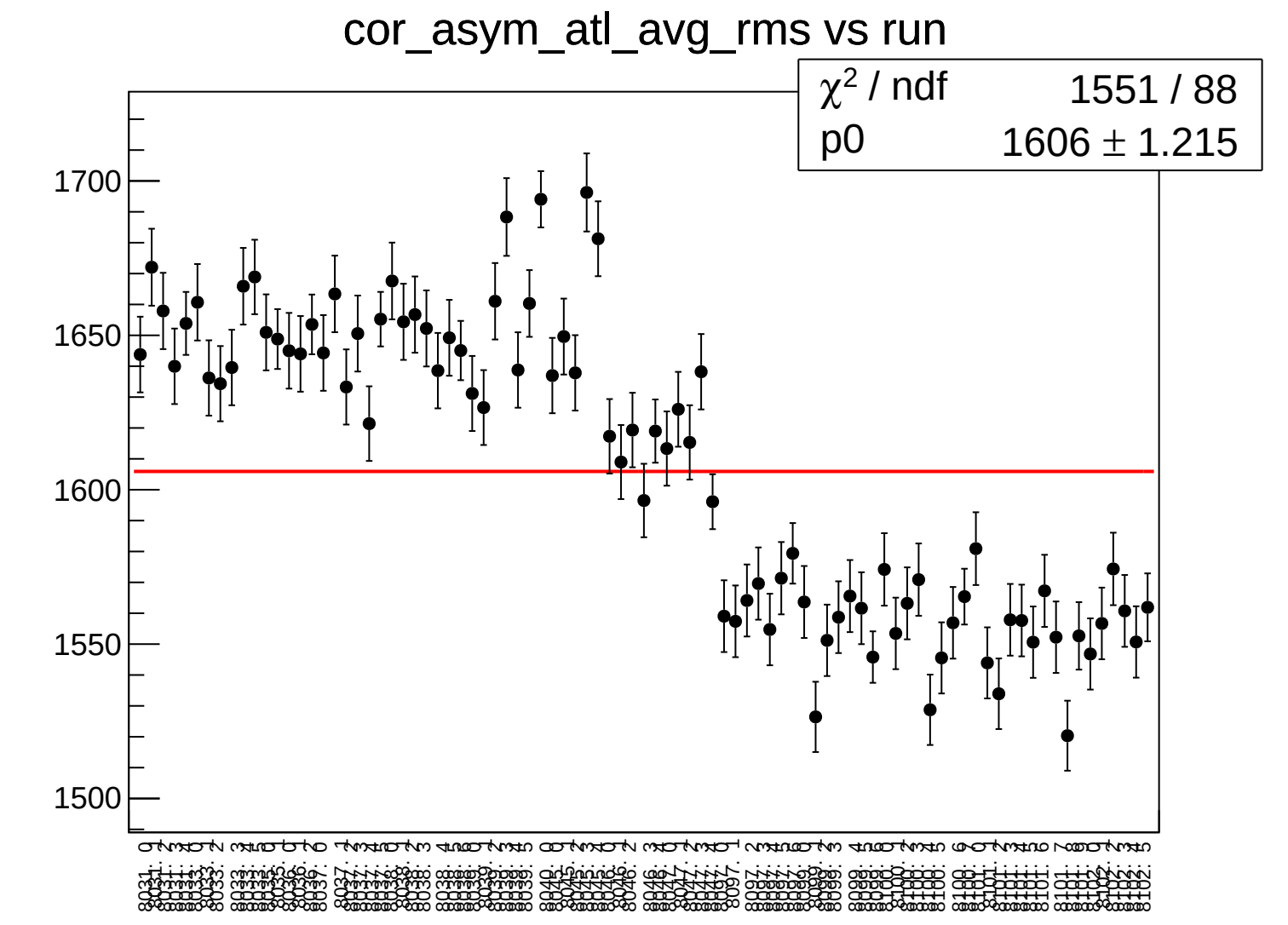

asym_atl_avg_reg_correction_mean vs run
χ² / ndf 98.01 / 88
p0 1504 ± 4323
×10³
pull
Entries 89
Mean −120
Std Dev 0

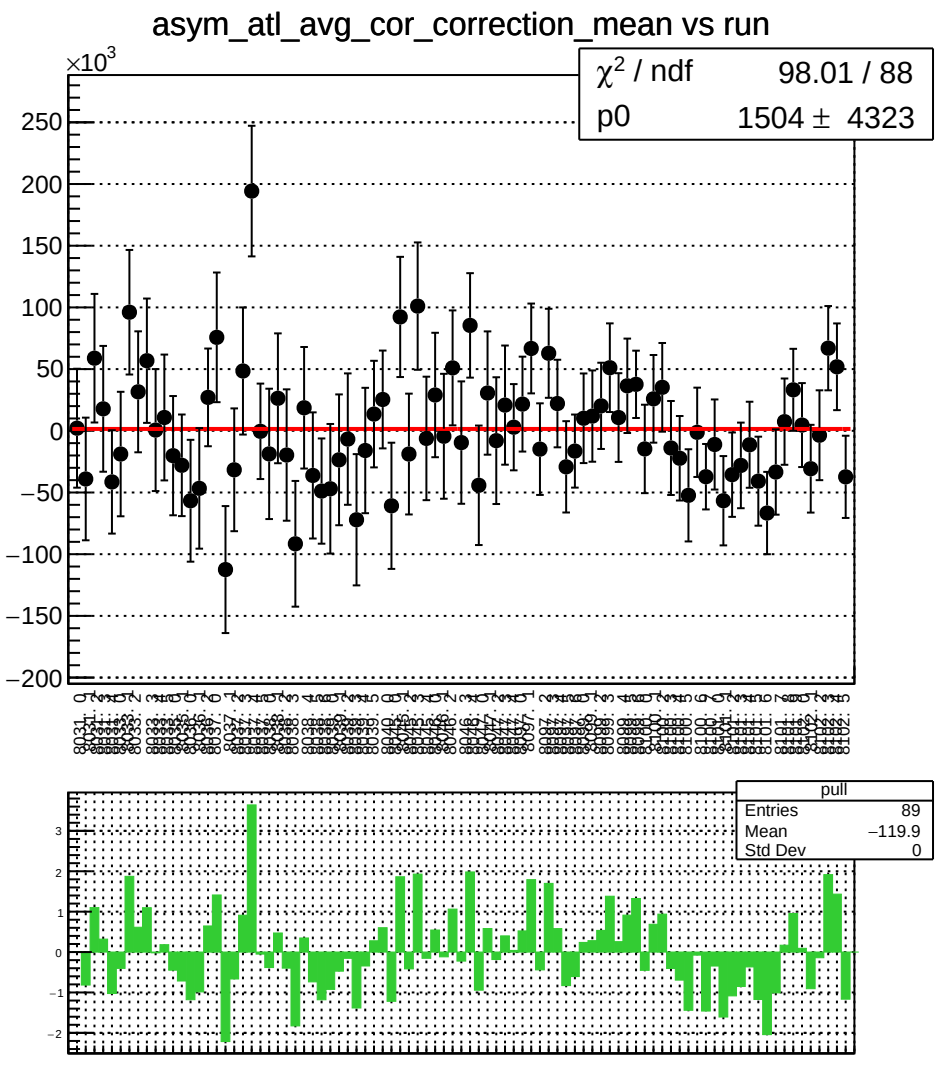

pull1D
Entries 89
Mean 0.0108
Std Dev 1.049

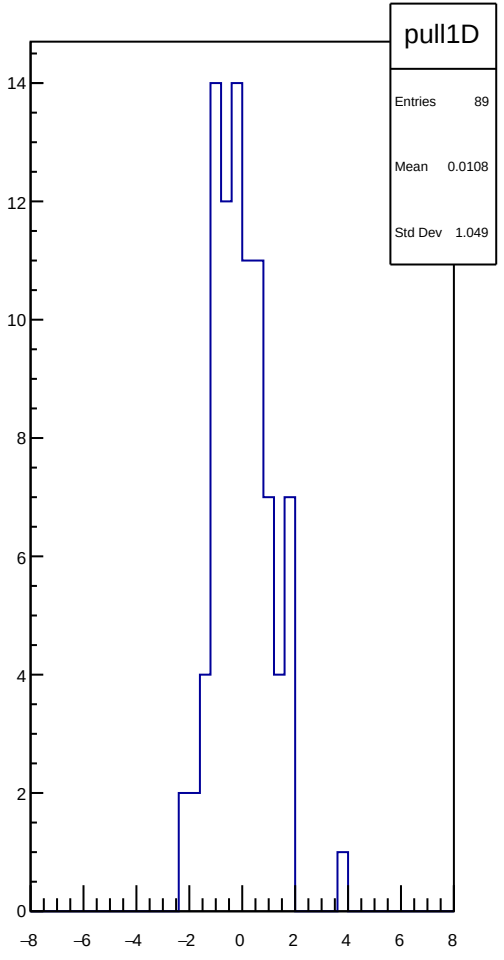

asym_atl_avg_reg_correction_rms vs run
χ² / ndf 5.503e+04 / 88
p0 3976 ± 3.057
5000
4500
4000
3500
3000

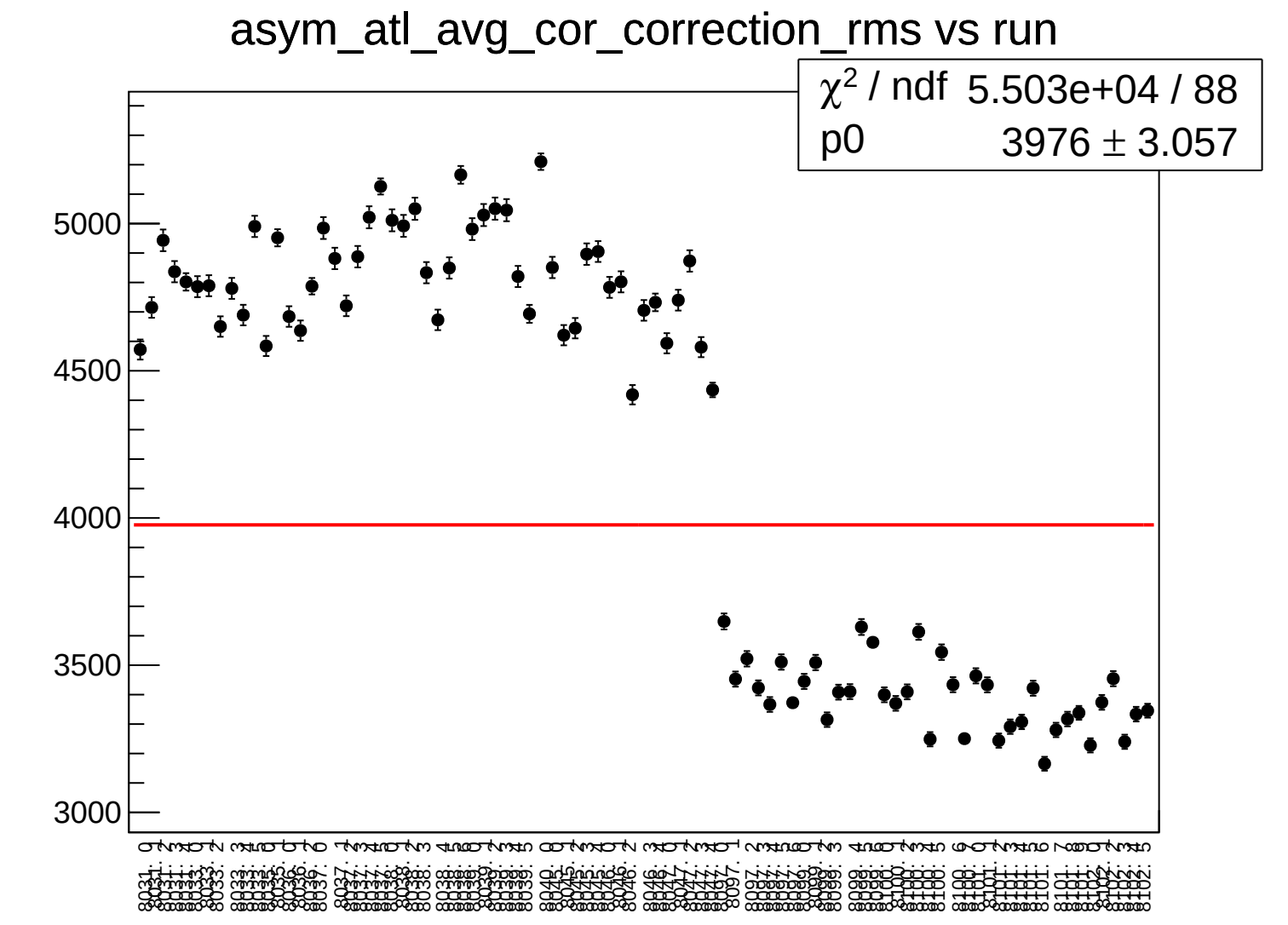

cor_asym_atl_avg_mean vs run
χ² / ndf 81.12 / 88
p0 3934 ± 1719
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 164.6
Std Dev 173.7
2
1
0
−1
−2

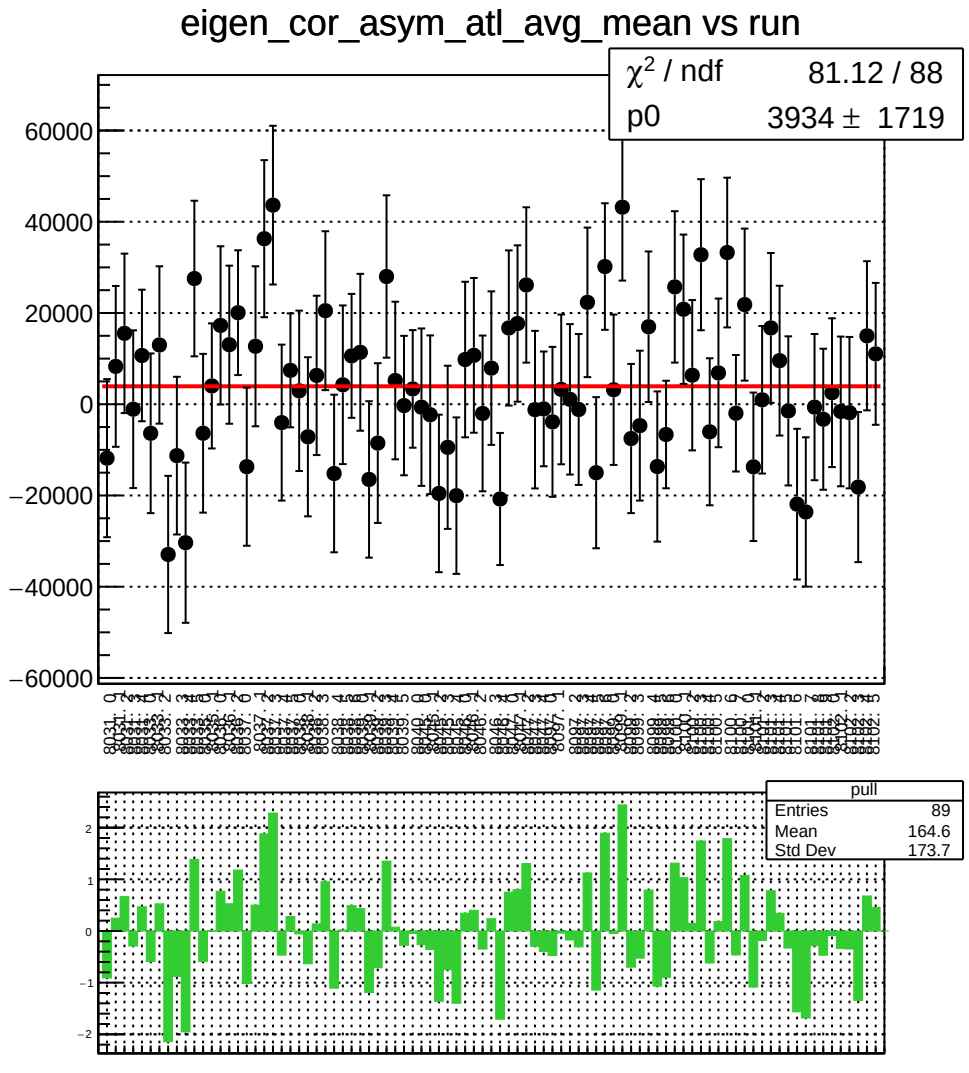

pull1D
Entries 89
Mean −0.001214
Std Dev 0.9547
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

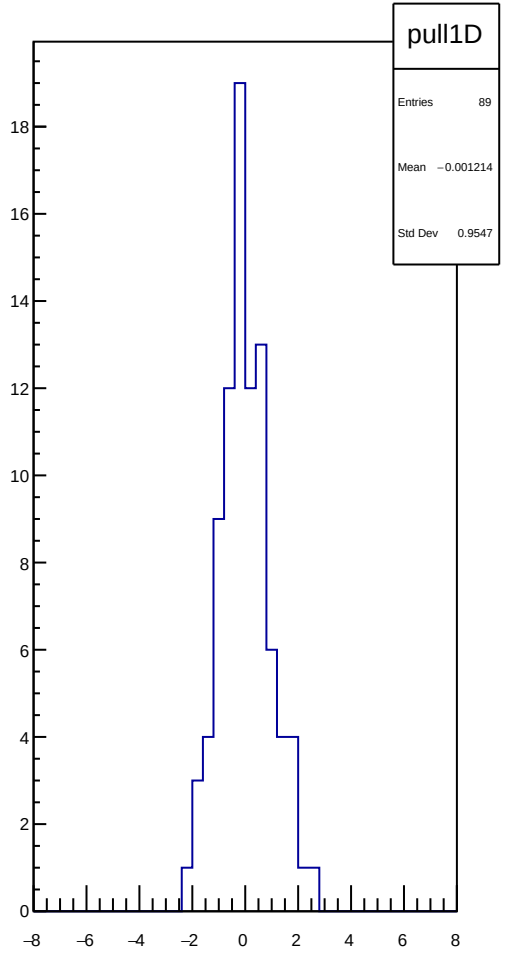

cor_asym_atl_avg_rms vs run
χ² / ndf 1551 / 88
p0 1606 ± 1.215
1700
1650
1600
1550
1500

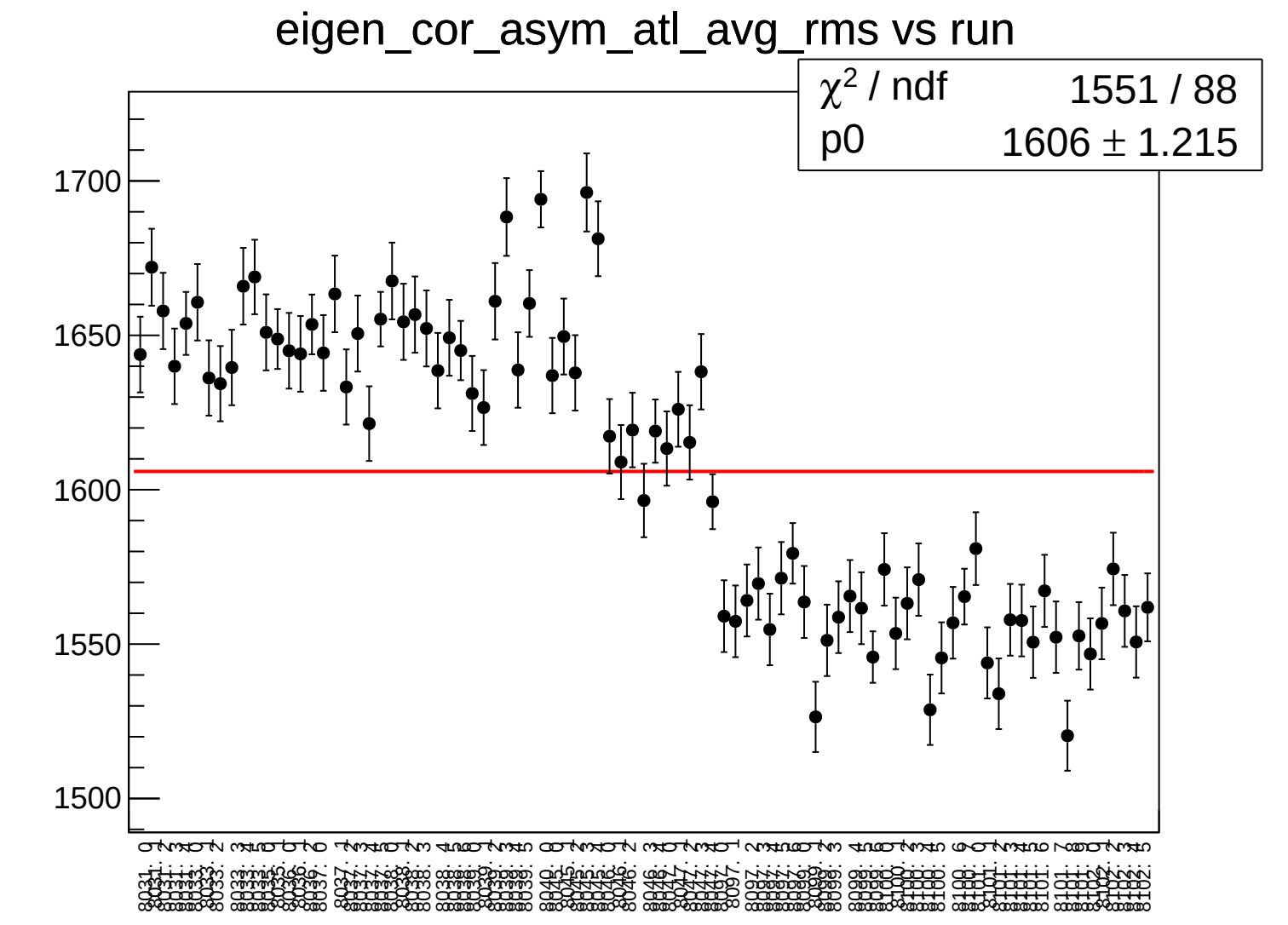

asym_atl_avg_cor_correction_mean vs run
χ² / ndf 98.01 / 88
p0 1504 ± 4323
×10³
pull
Entries 89
Mean −119.9
Std Dev 0

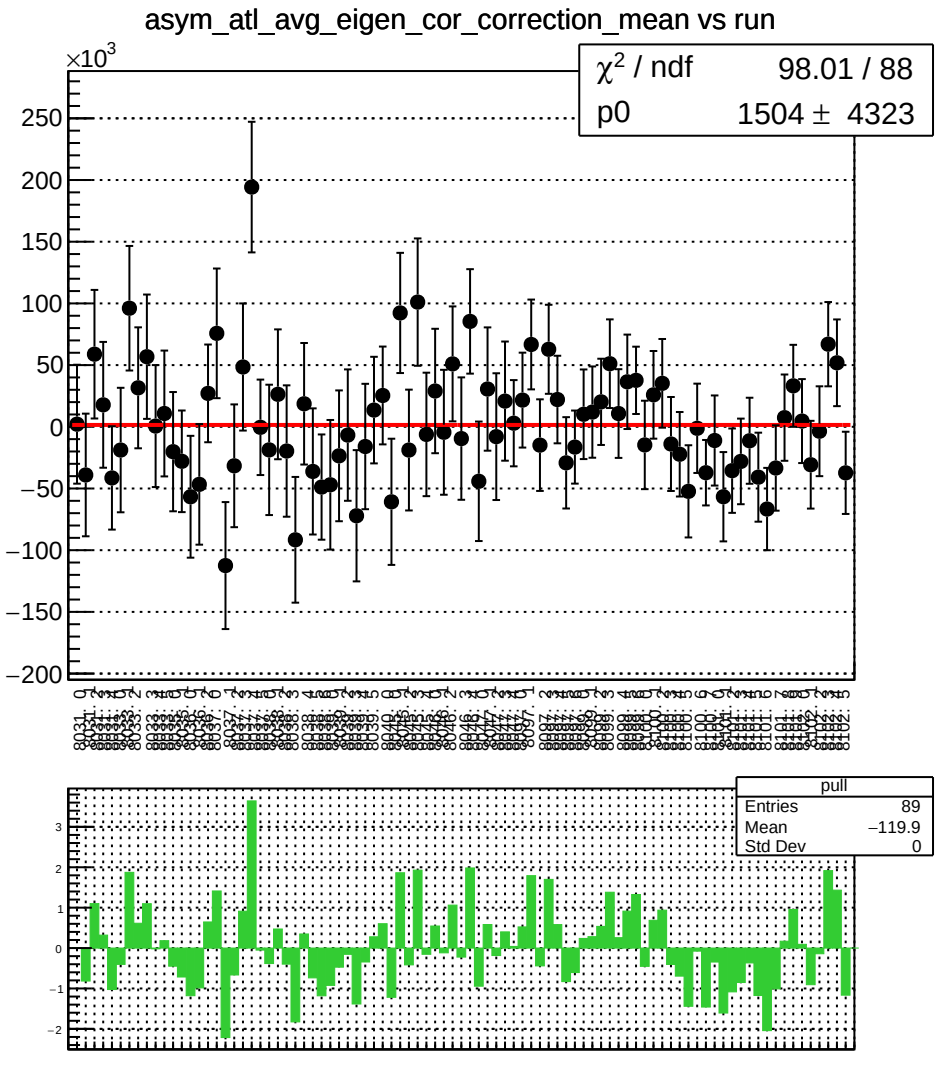

pull1D
Entries 89
Mean 0.0108
Std Dev 1.049

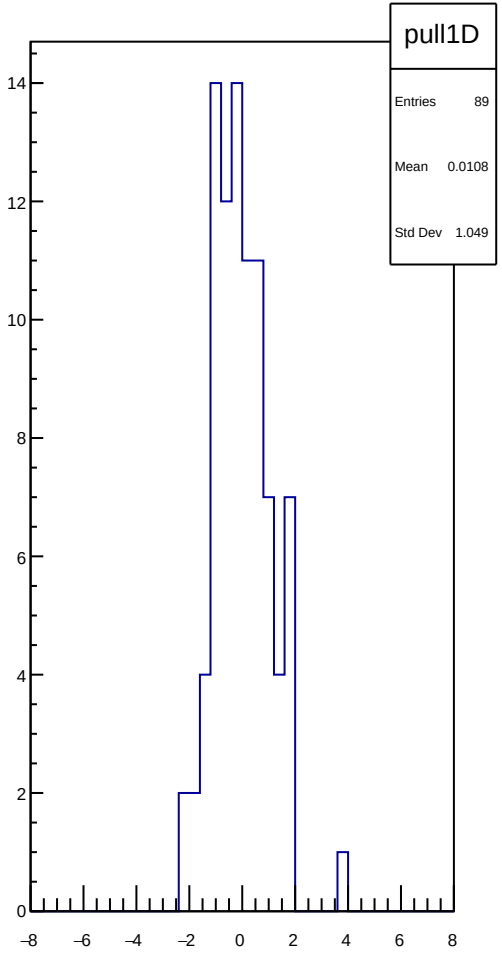

asym_atl_avg_cor_correction_rms vs run
χ² / ndf 5.503e+04 / 88
p0 3976 ± 3.057
5000
4500
4000
3500
3000

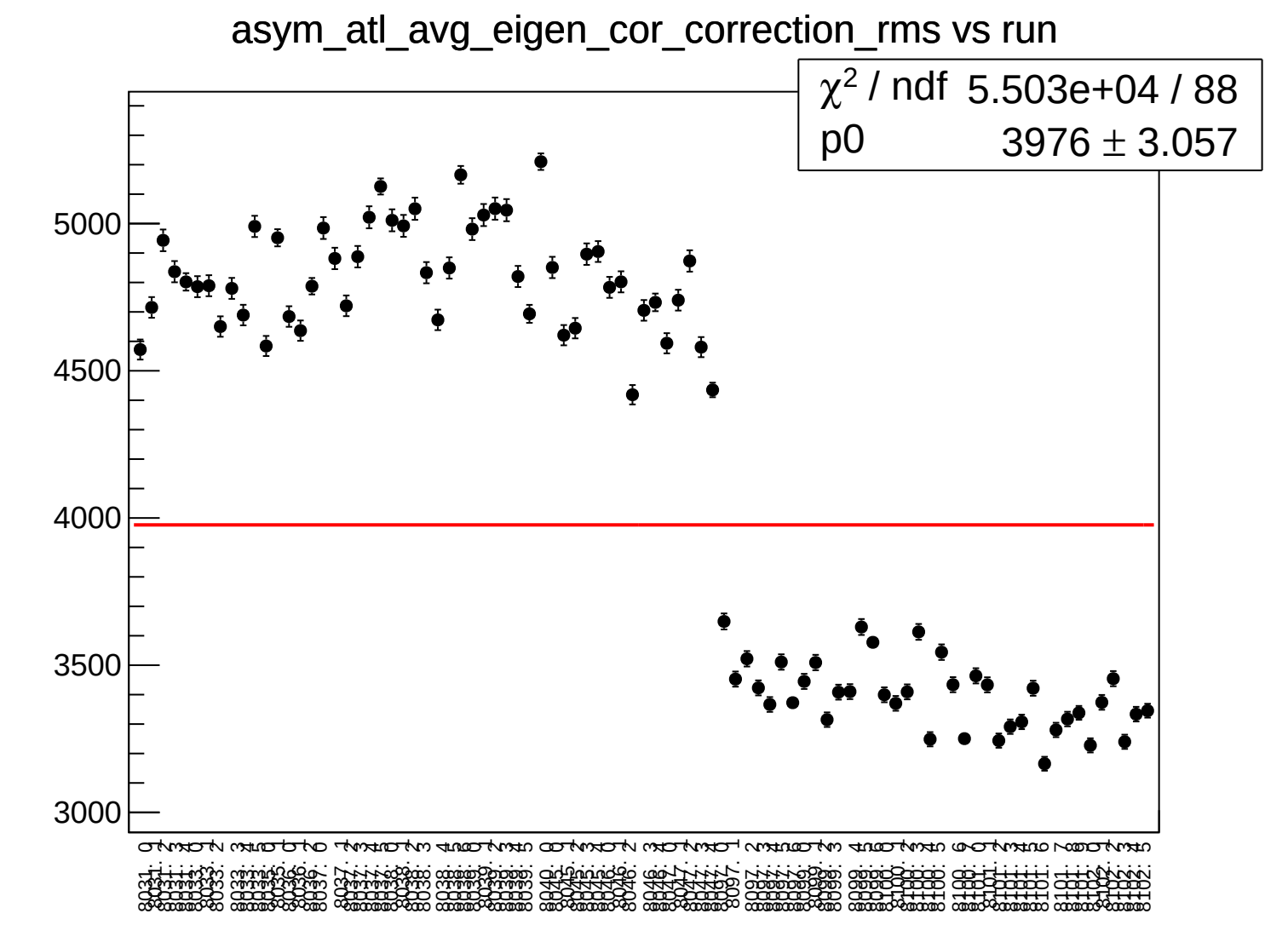

eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 81.12 / 88
p0 3934 ± 1719
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 164.6
Std Dev 173.7
2
1
0
−1
−2

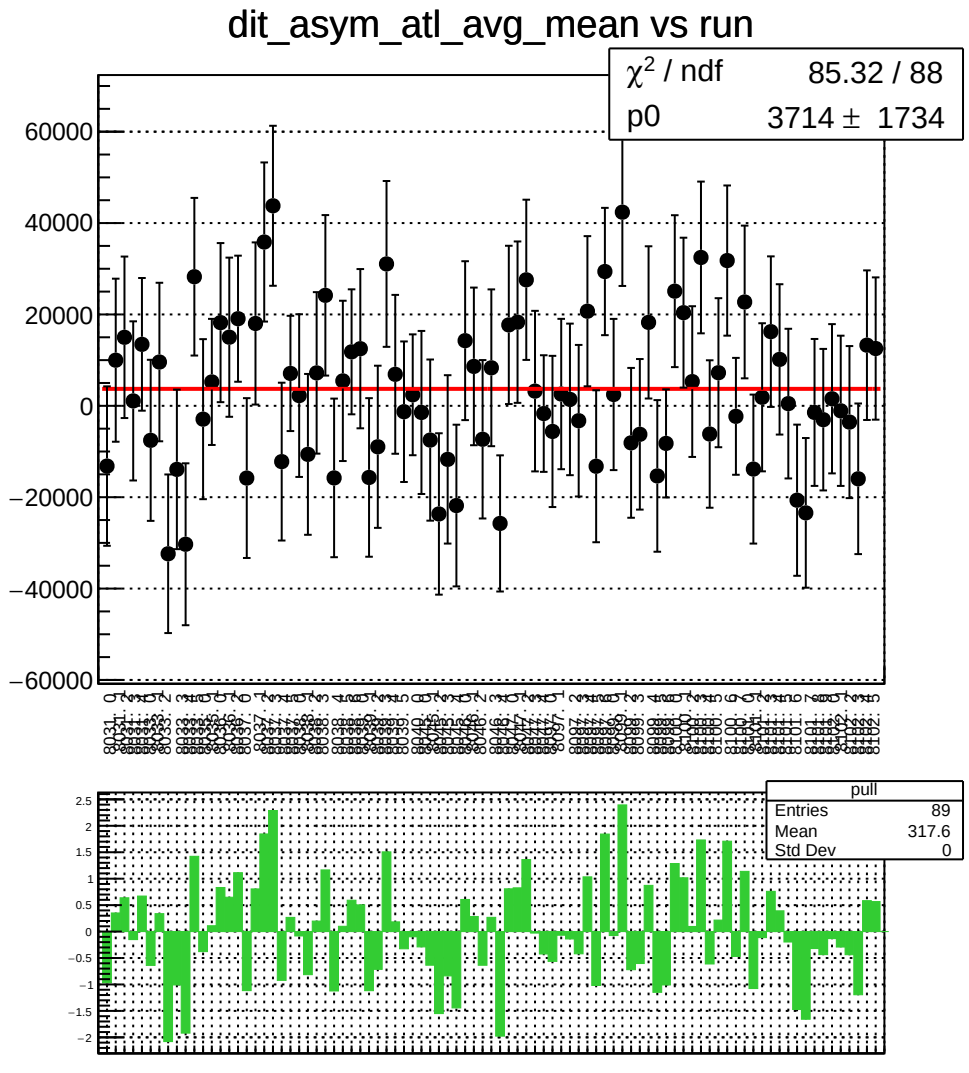

pull1D
Entries 89
Mean −0.001214
Std Dev 0.9547
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

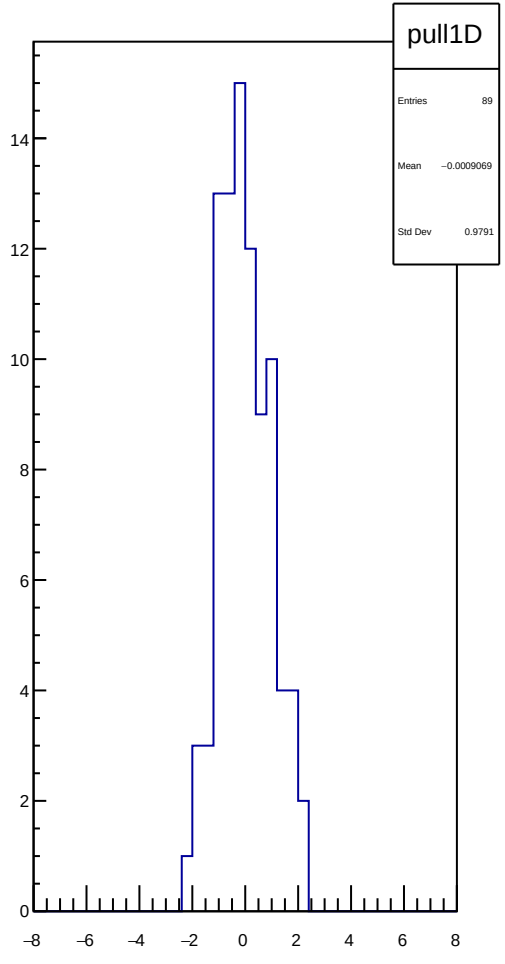

eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 1551 / 88
p0 1606 ± 1.215
1700
1650
1600
1550
1500

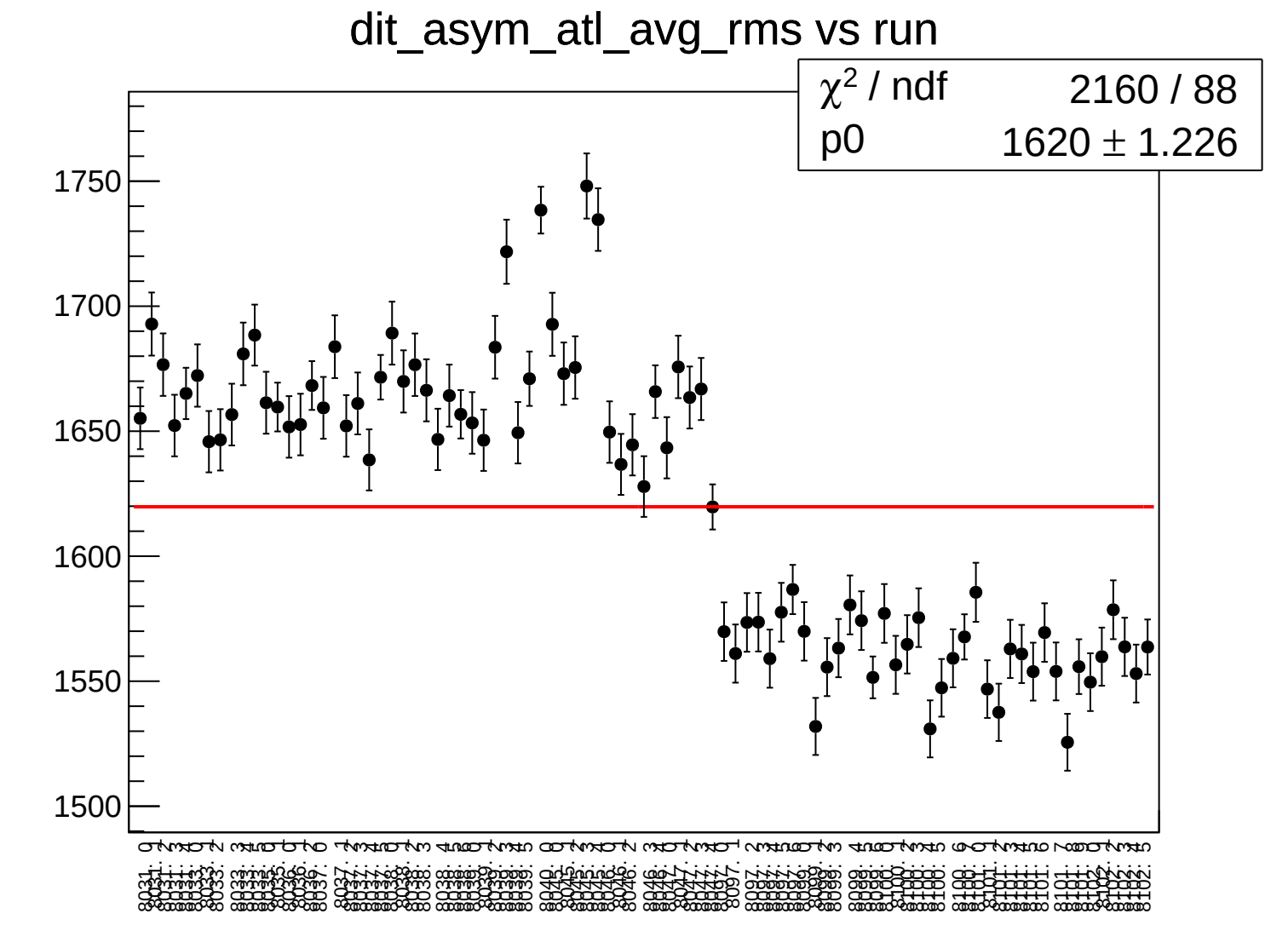

asym_atl_avg_eigen_cor_correction_mean vs run
χ² / ndf 98.01 / 88
p0 1504 ± 4323
×10³
pull
Entries 89
Mean −119.9
Std Dev 0

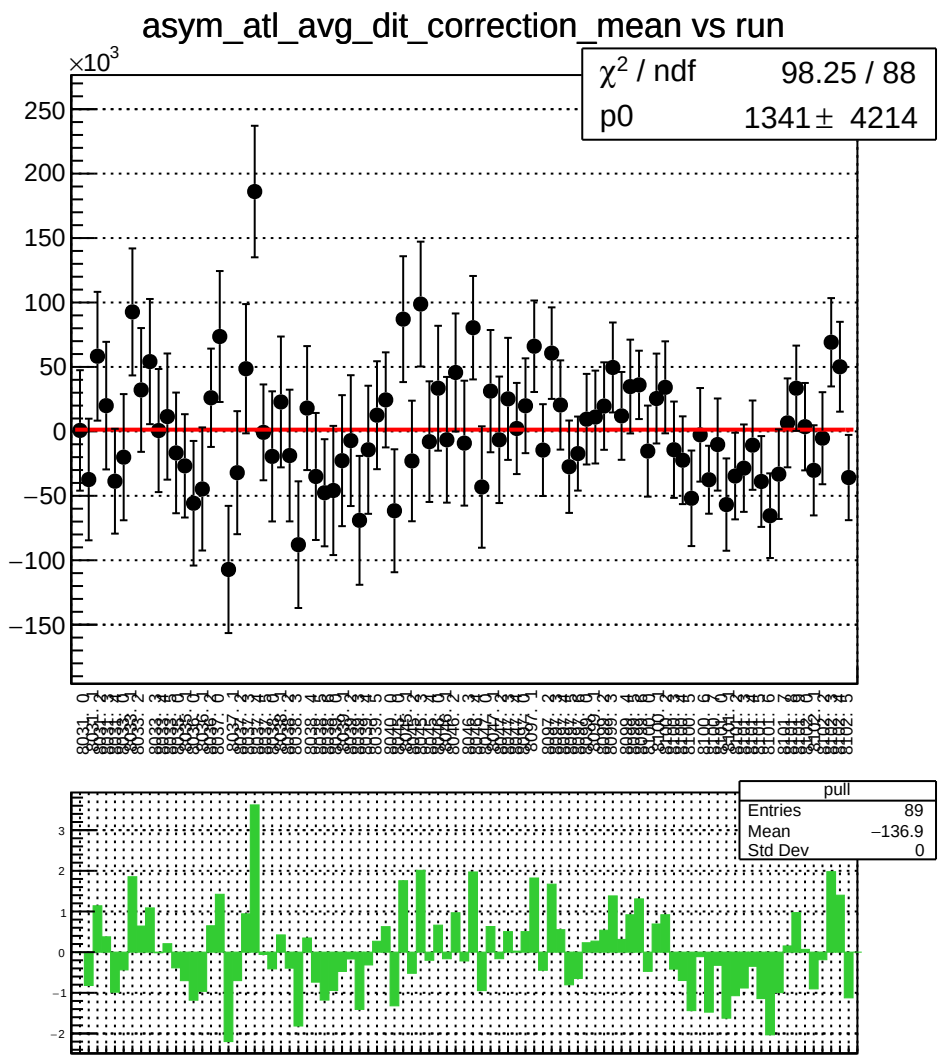

pull1D
Entries 89
Mean 0.0108
Std Dev 1.049

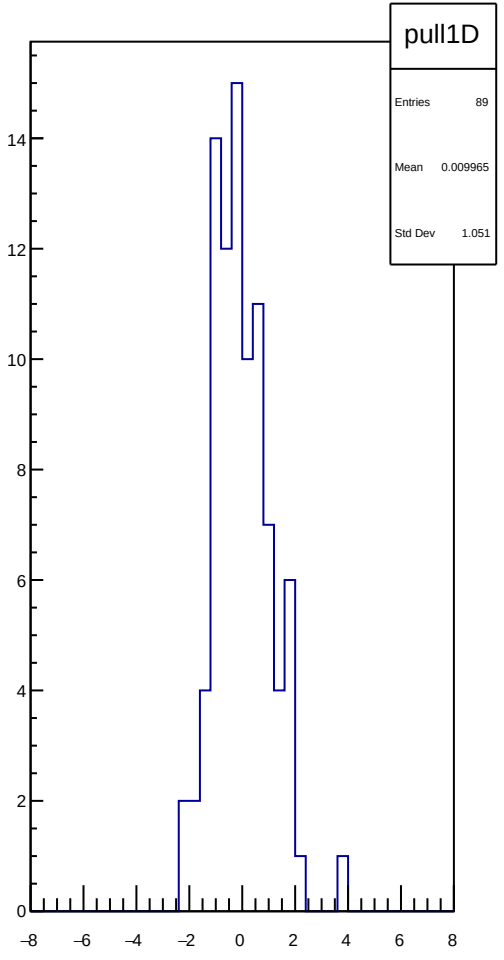

asym_atl_avg_eigen_cor_correction_rms vs run
χ² / ndf 5.503e+04 / 88
p0 3976 ± 3.057
5000
4500
4000
3500
3000

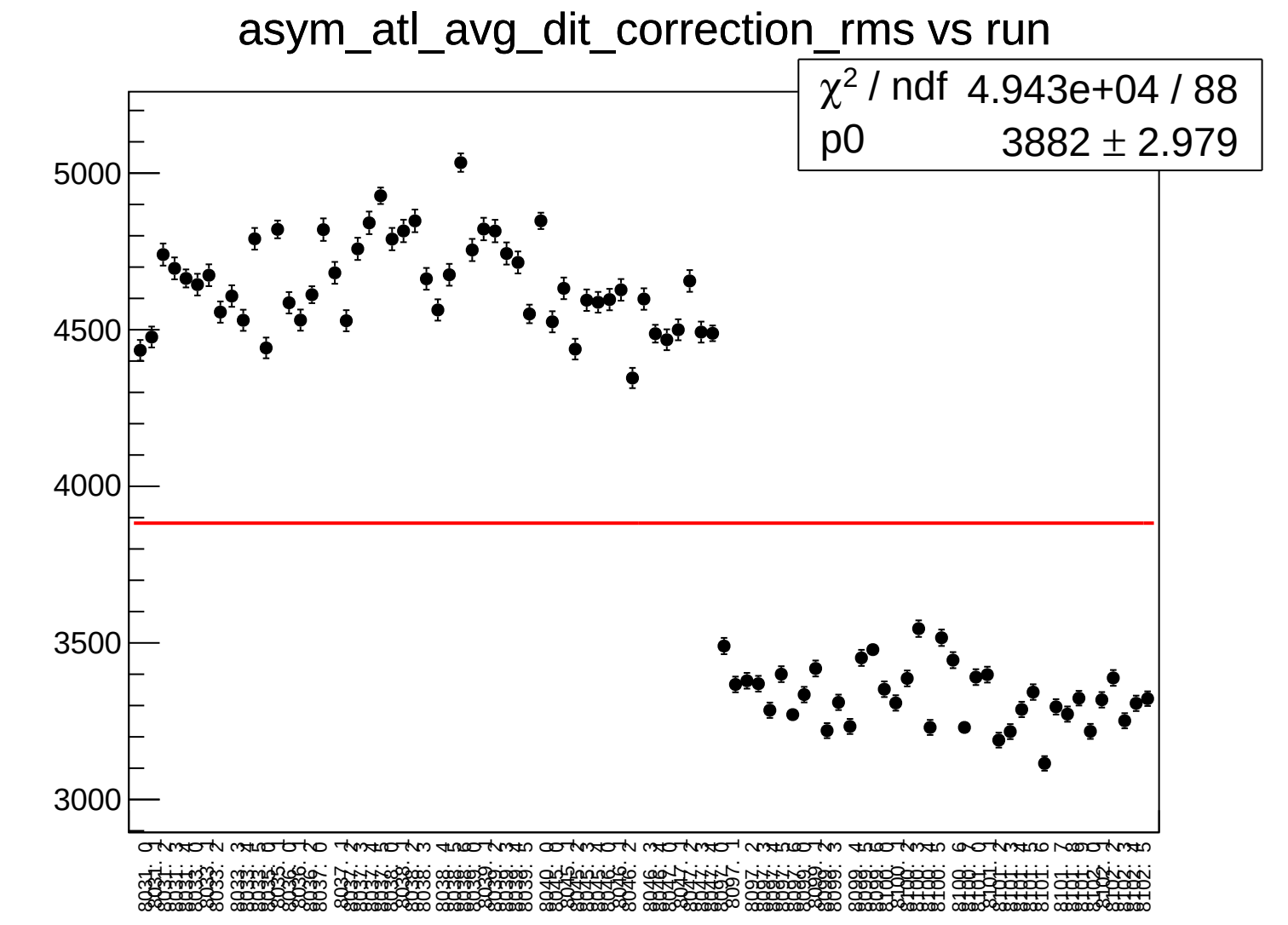

dit_asym_atl_avg_mean vs run
χ² / ndf 85.32 / 88
p0 3714 ± 1734
pull
Entries 89
Mean 317.6
Std Dev 0

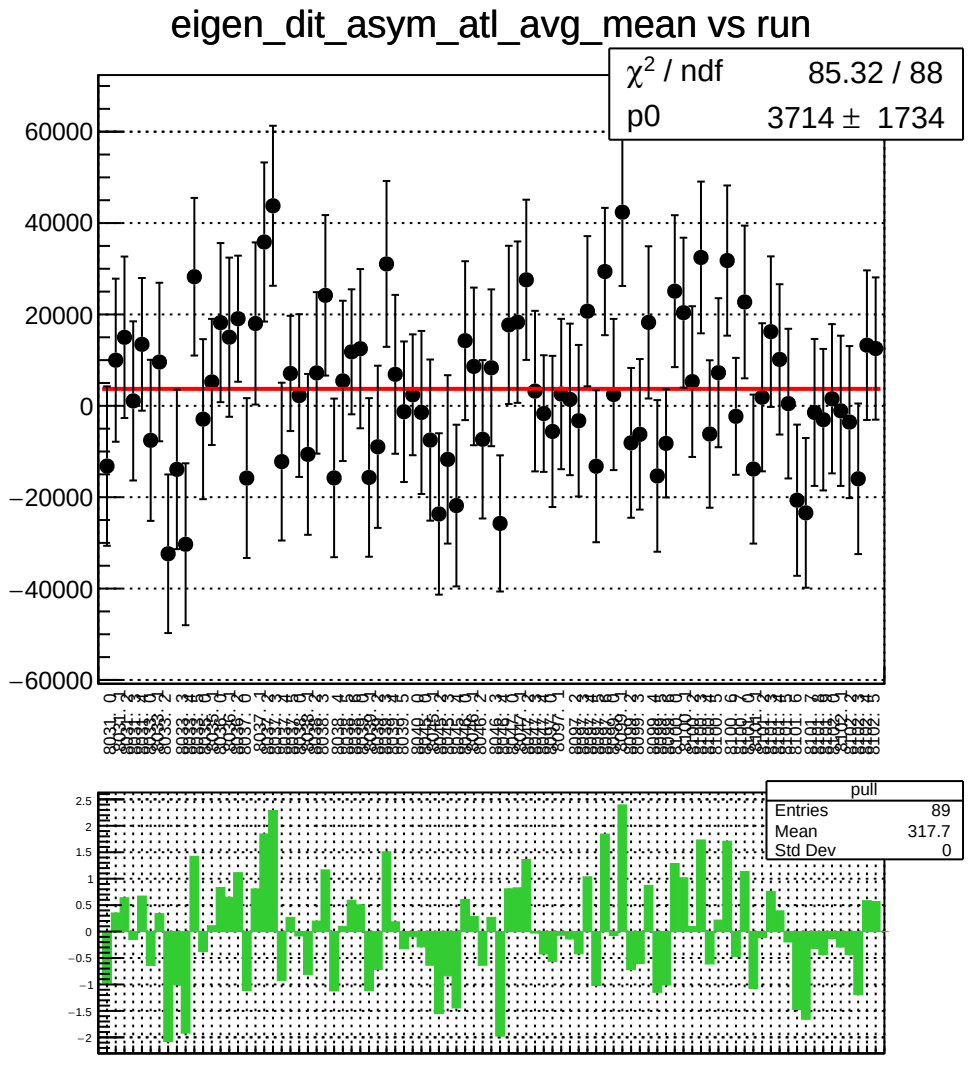

pull1D
Entries 89
Mean −0.0009069
Std Dev 0.9791

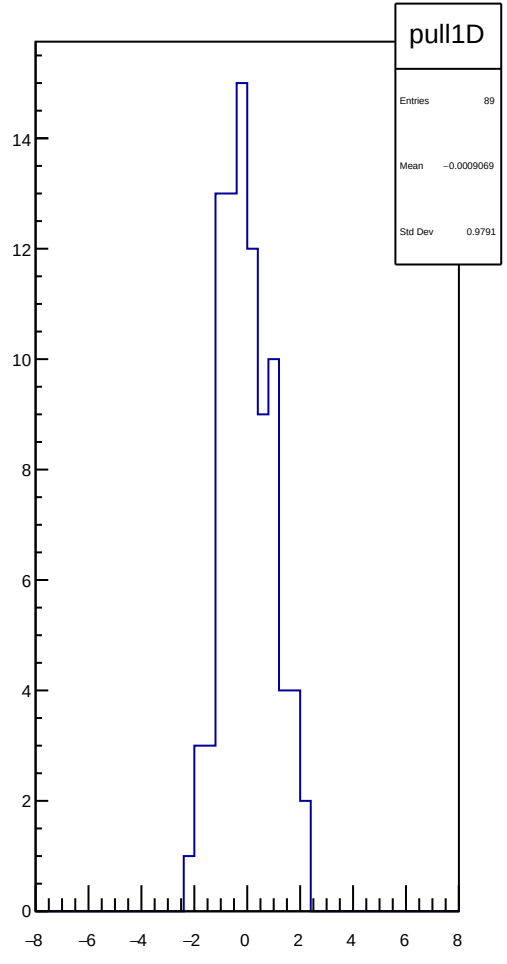

dit_asym_atl_avg_rms vs run
χ² / ndf 2160 / 88
p0 1620 ± 1.226
1750
1700
1650
1600
1550
1500

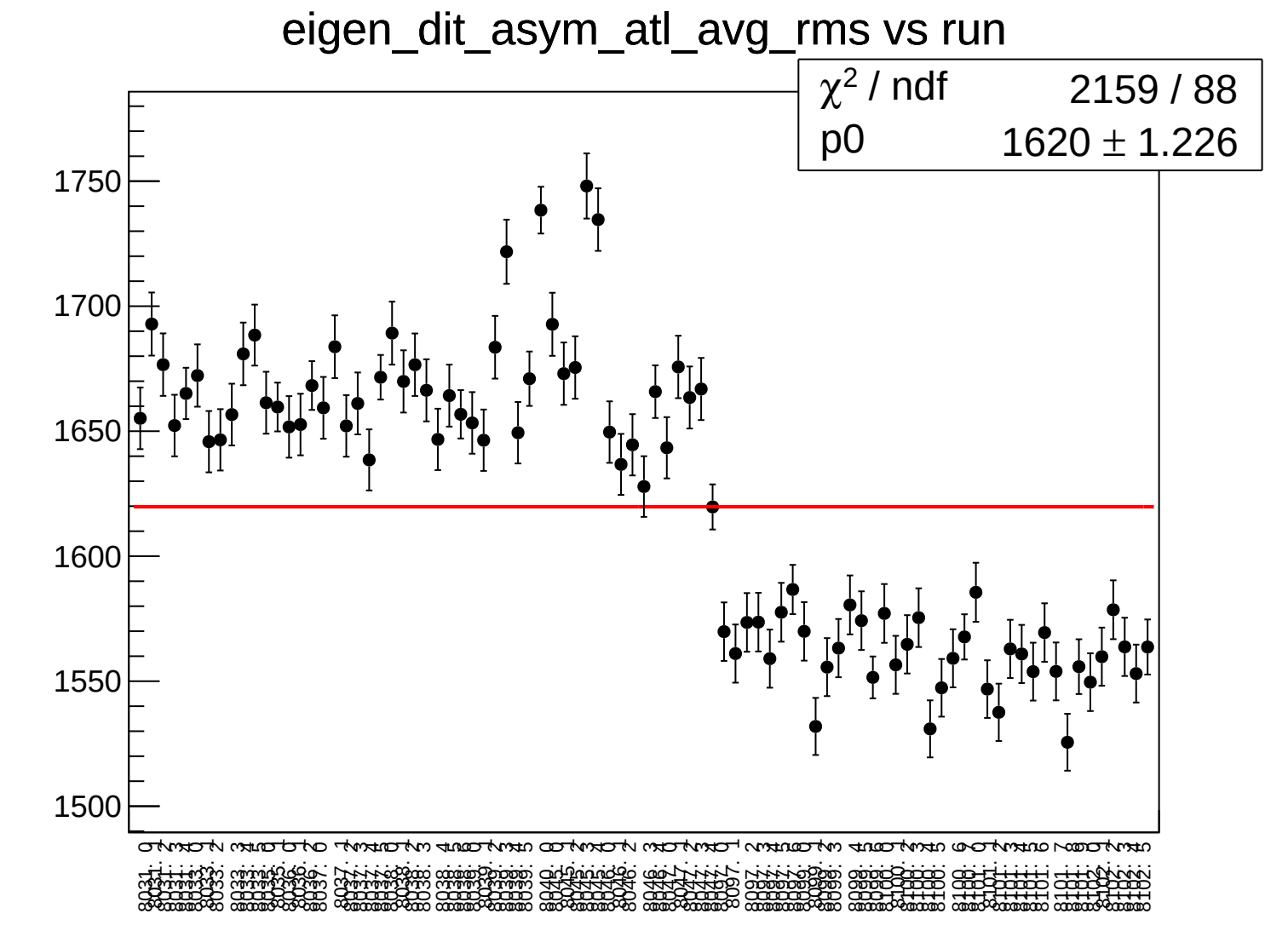

asym_atl_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 98.25 / 88
p0 1341 ± 4214
pull
Entries 89
Mean −136.9
Std Dev 0

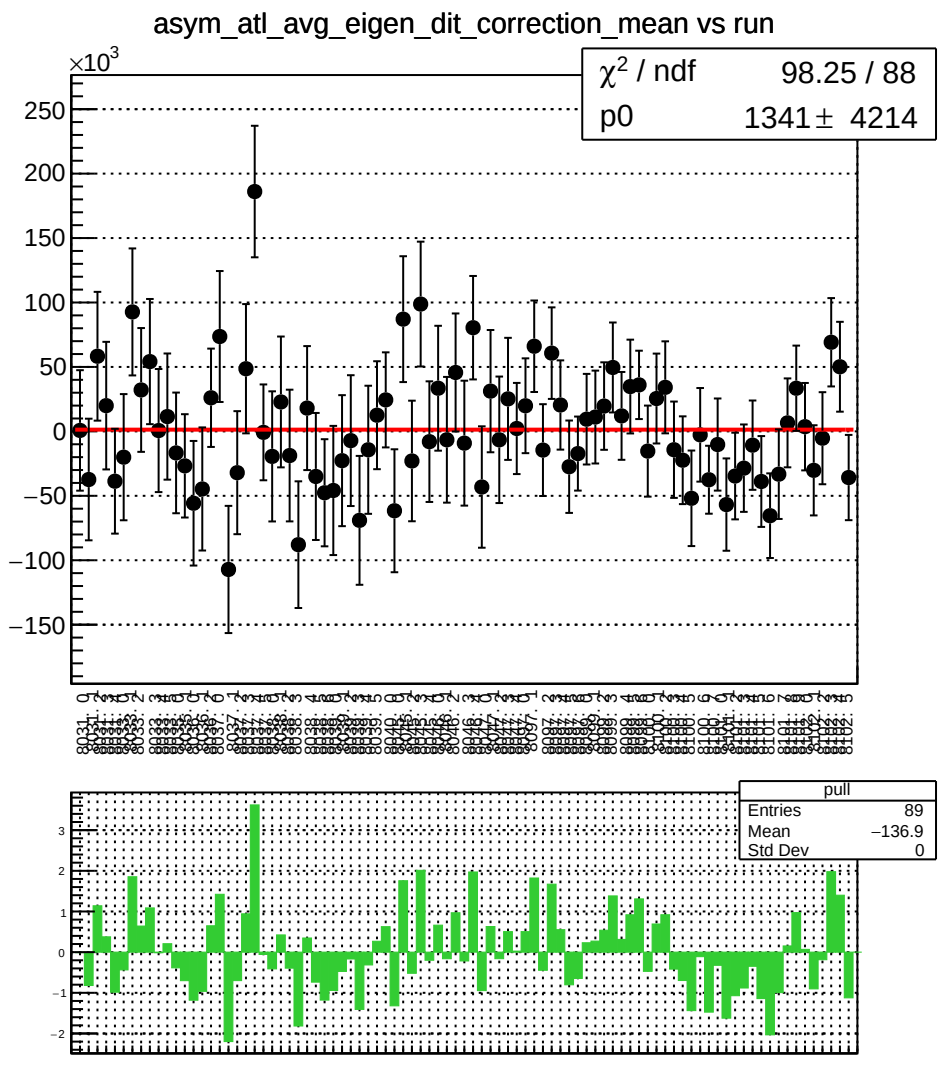

pull1D
Entries 89
Mean 0.009965
Std Dev 1.051

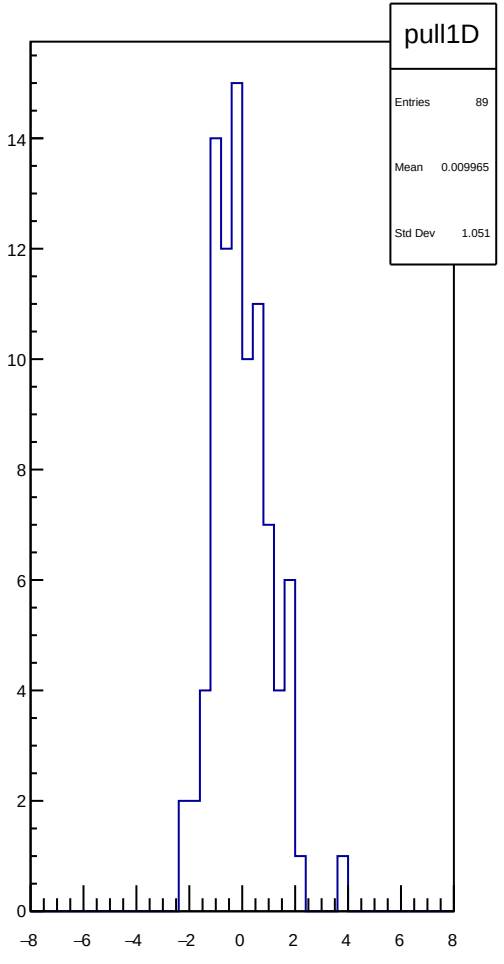

asym_atl_avg_dit_correction_rms vs run
χ² / ndf 4.943e+04 / 88
p0 3882 ± 2.979
5000
4500
4000
3500
3000

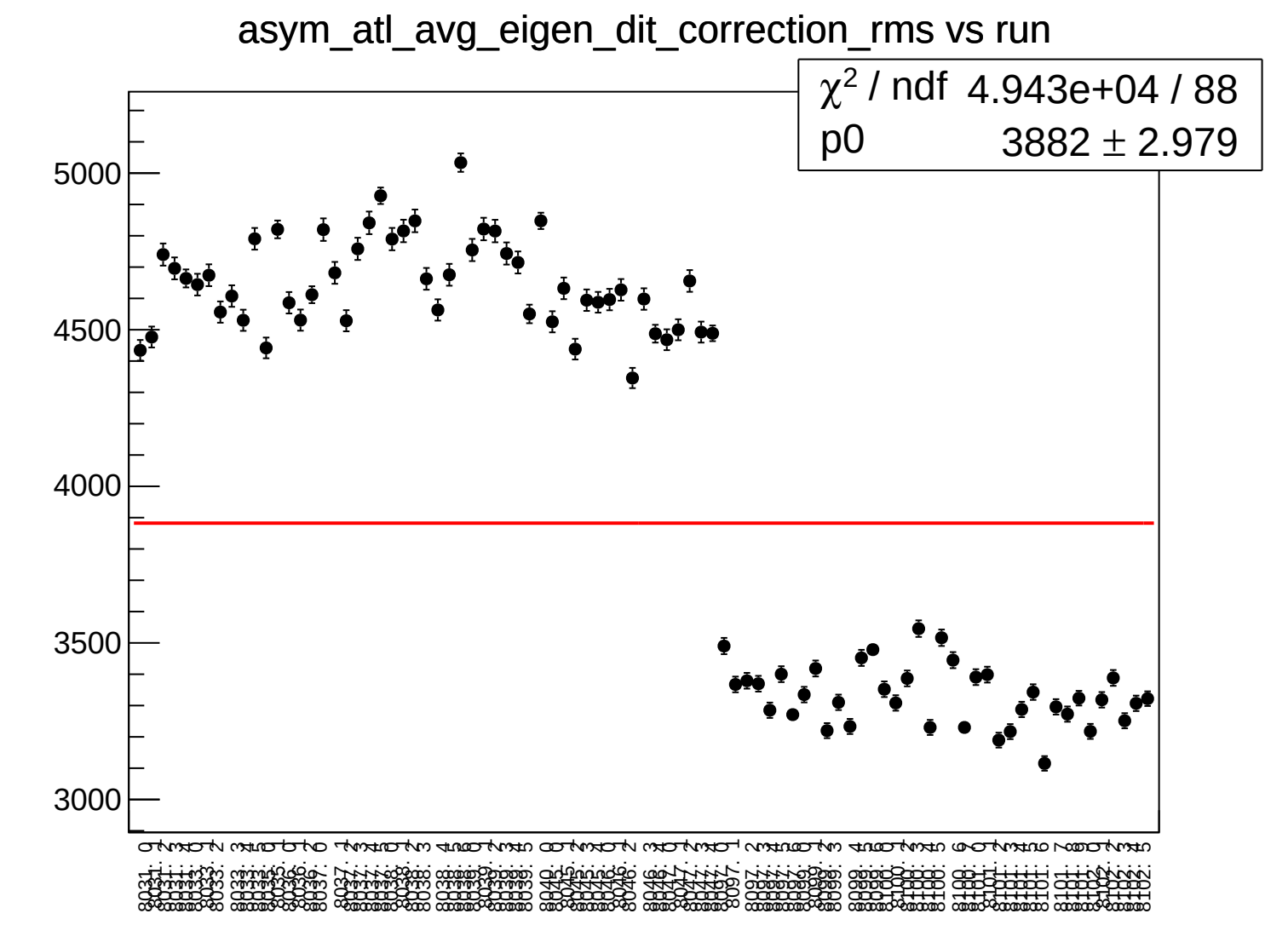

eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 85.32 / 88
p0 3714 ± 1734
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 317.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

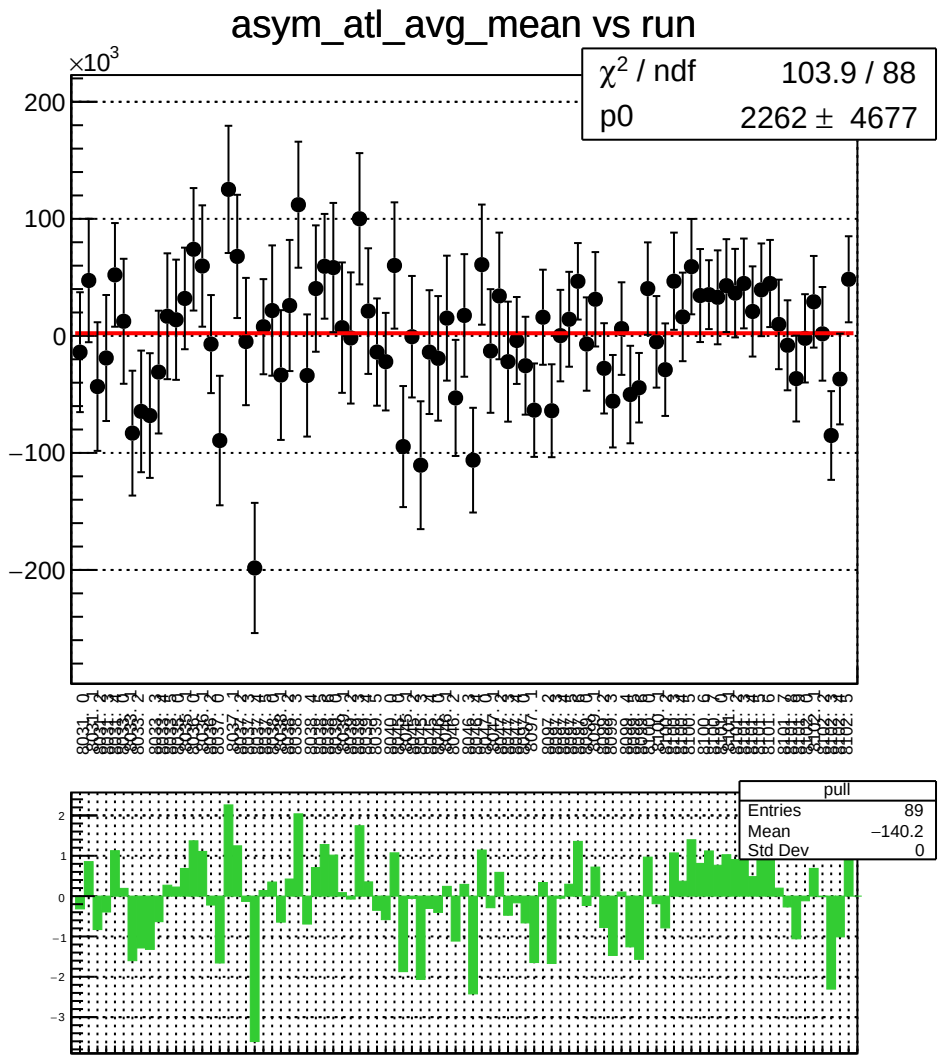

pull1D
Entries 89
Mean −0.0009069
Std Dev 0.9791
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

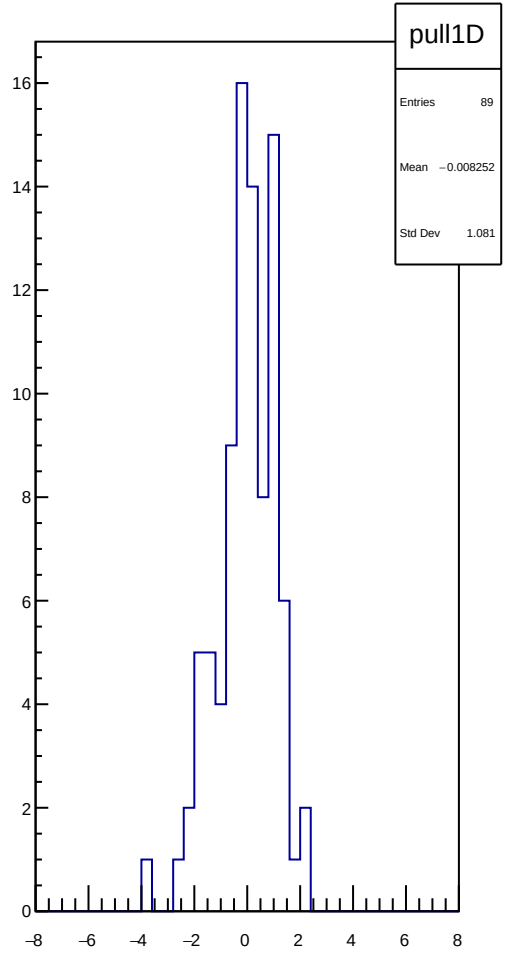

eigen_dit_asym_atl_avg_rms vs run
χ² / ndf 2159 / 88
p0 1620 ± 1.226
1750
1700
1650
1600
1550
1500

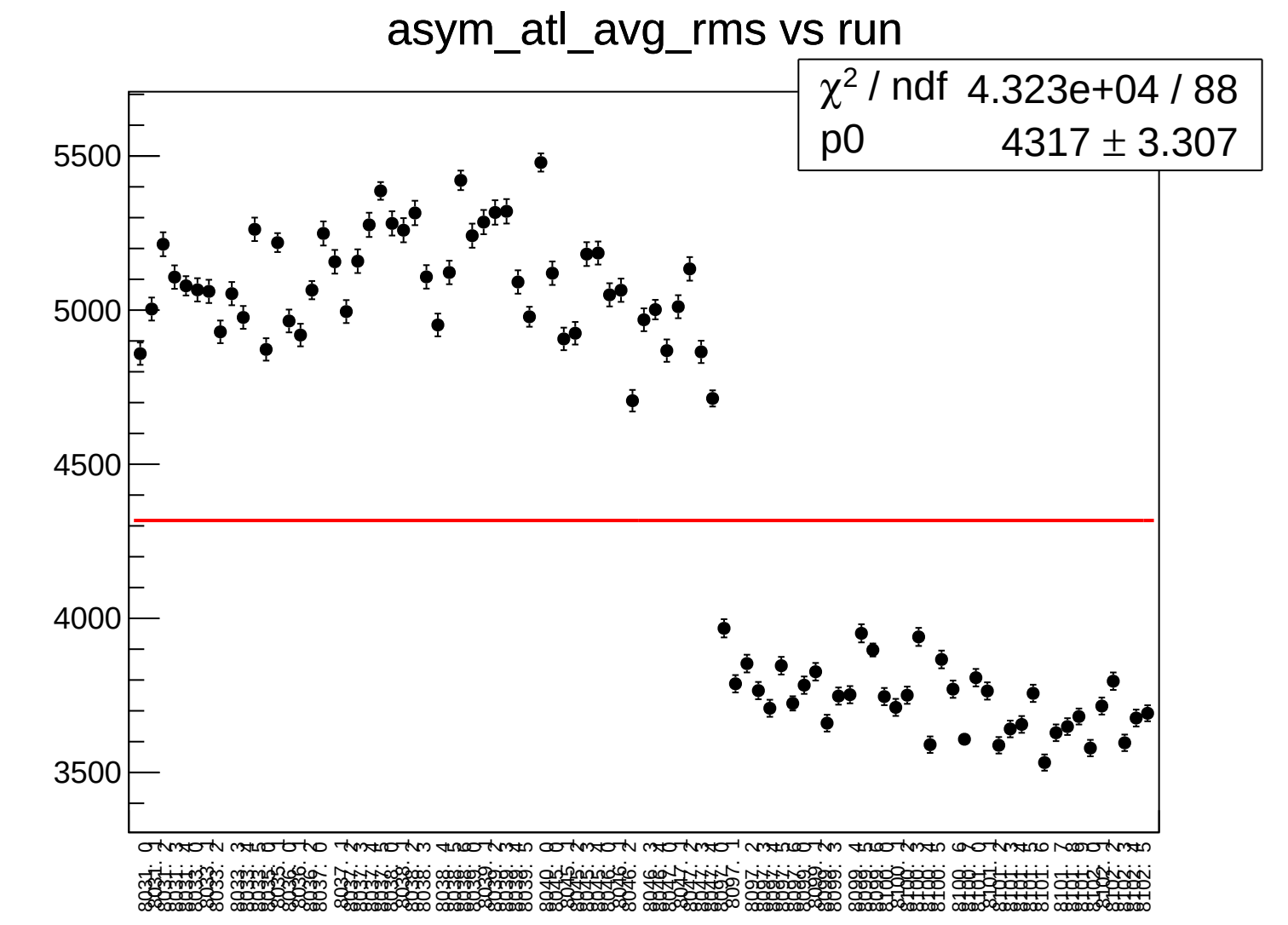

asym_atl_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 98.25 / 88
p0 1341 ± 4214
pull
Entries 89
Mean −136.9
Std Dev 0

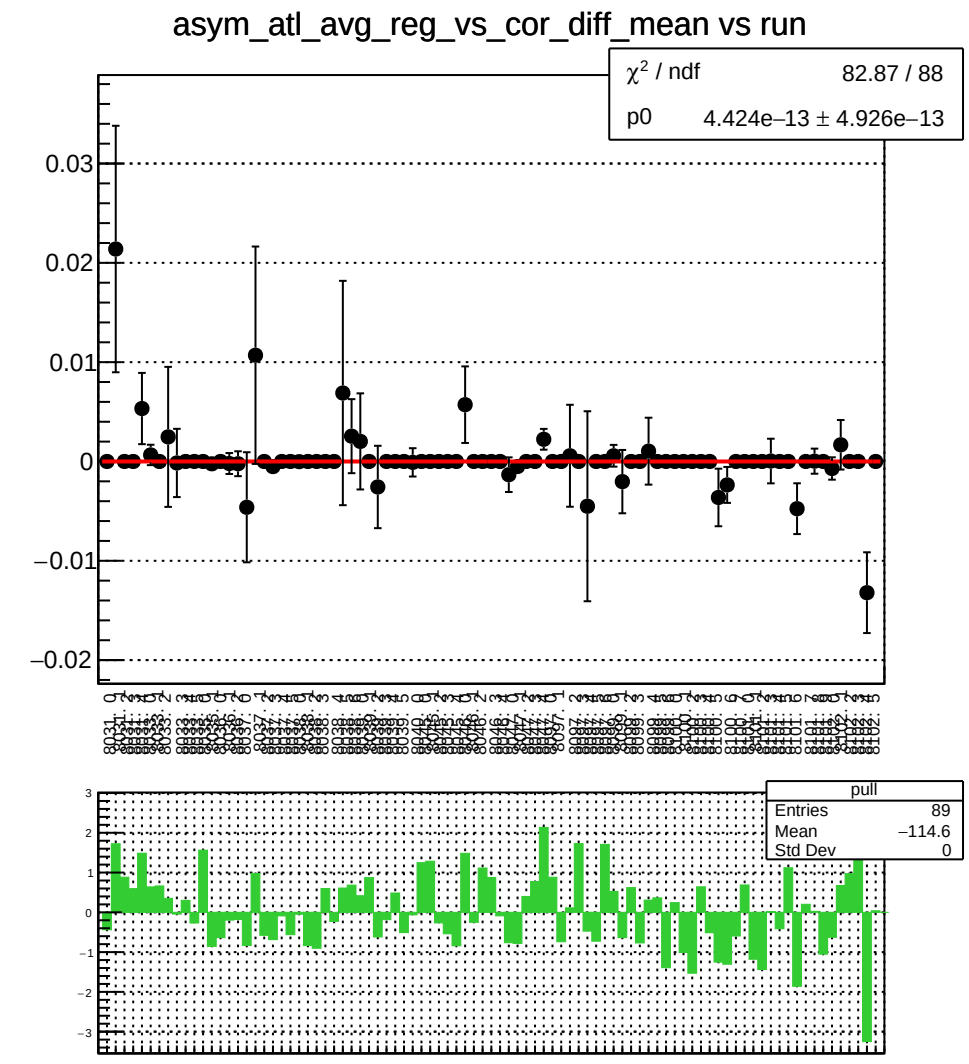

pull1D
Entries 89
Mean 0.009965
Std Dev 1.051

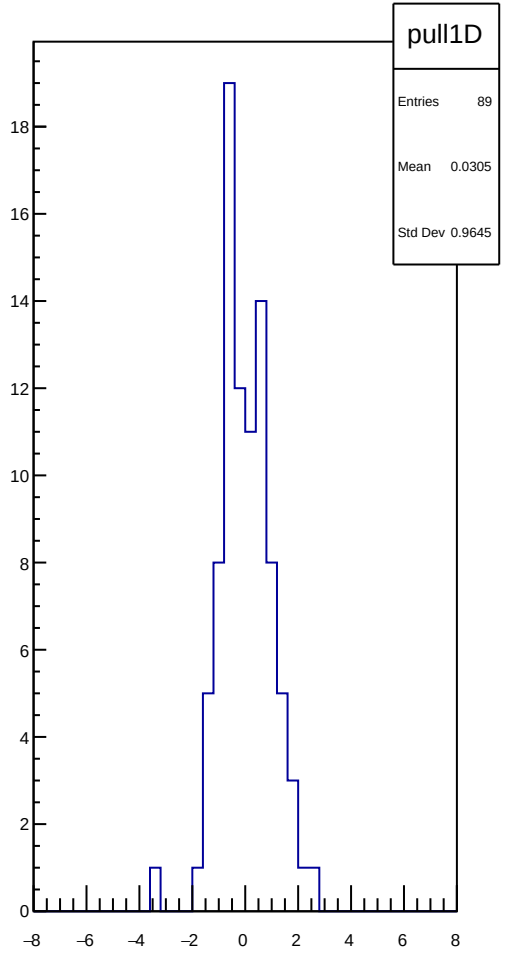

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 4.943e+04 / 88
p0 3882 ± 2.979
5000
4500
4000
3500
3000

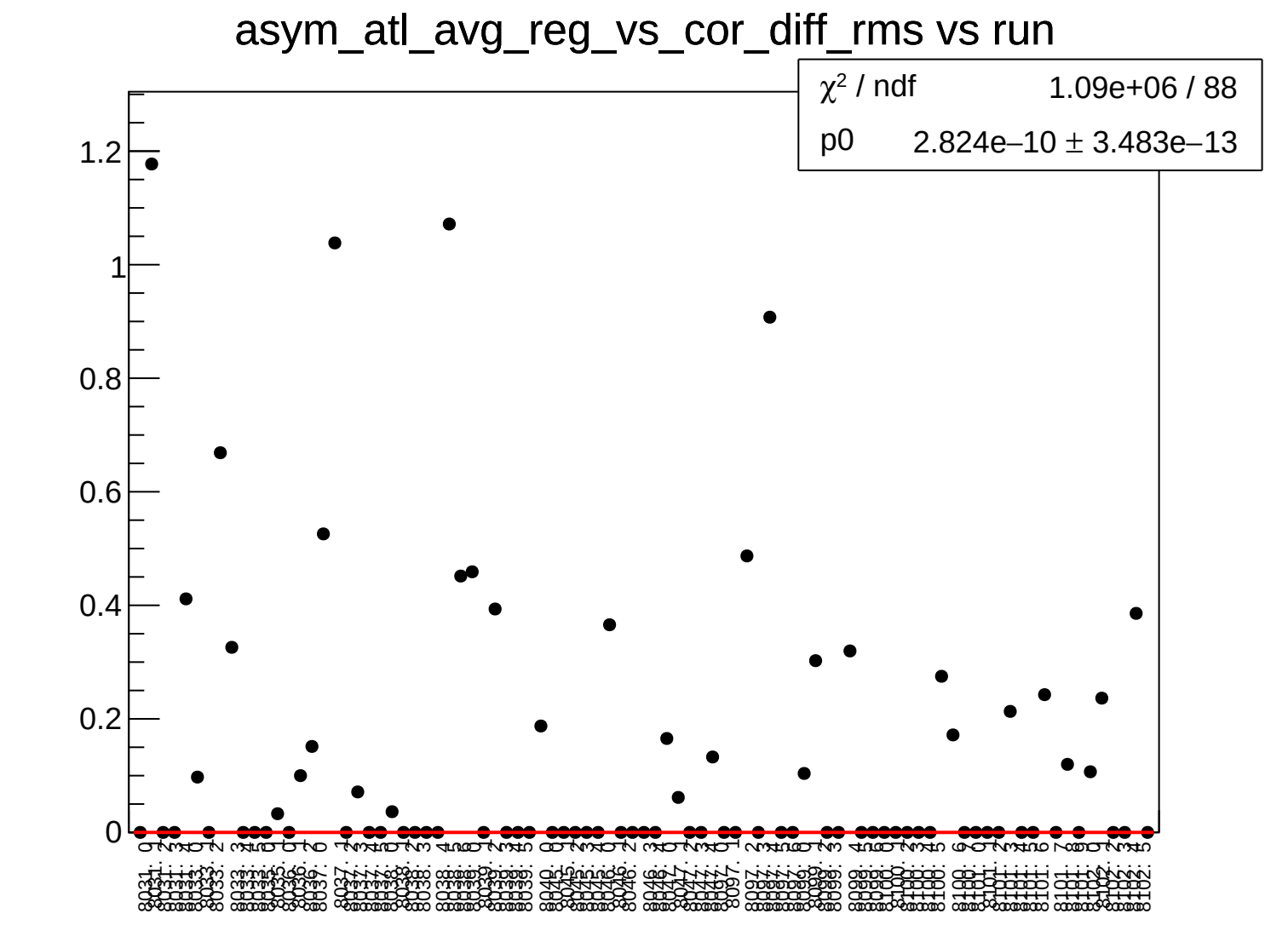

asym_atl_avg_mean vs run
×10^3
χ² / ndf 103.9 / 88
p0 2262 ± 4677
200
100
0
−100
−200
pull
Entries 89
Mean −140.2
Std Dev 0
2
1
0
−1
−2
−3

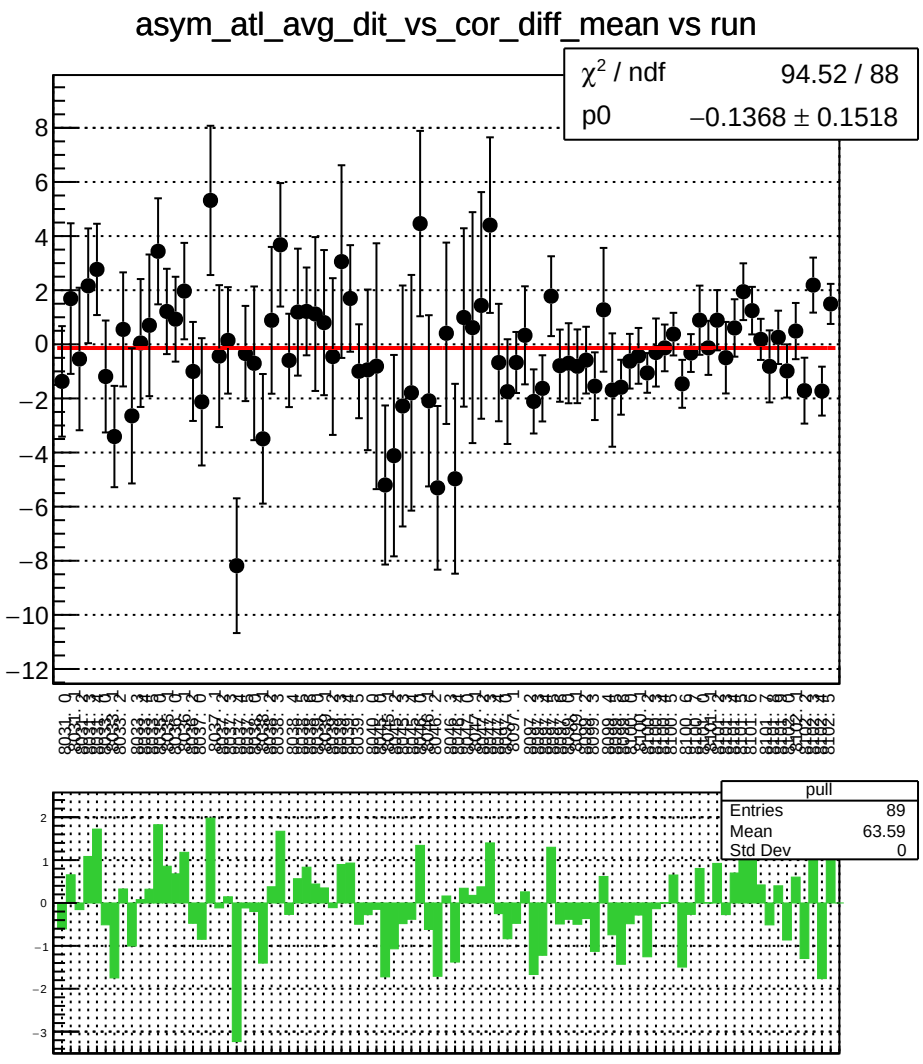

pull1D
Entries 89
Mean −0.008252
Std Dev 1.081
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

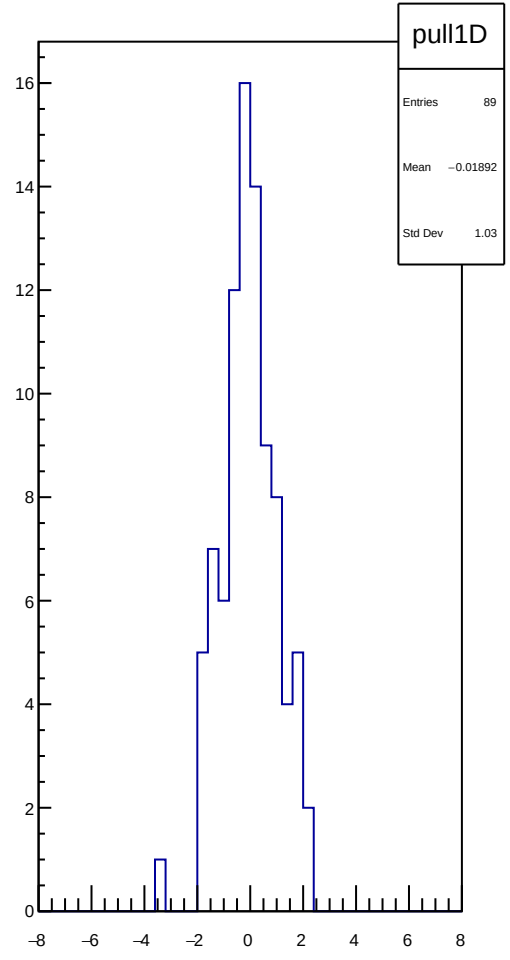

asym_atl_avg_rms vs run
χ² / ndf 4.323e+04 / 88
p0 4317 ± 3.307
5500
5000
4500
4000
3500

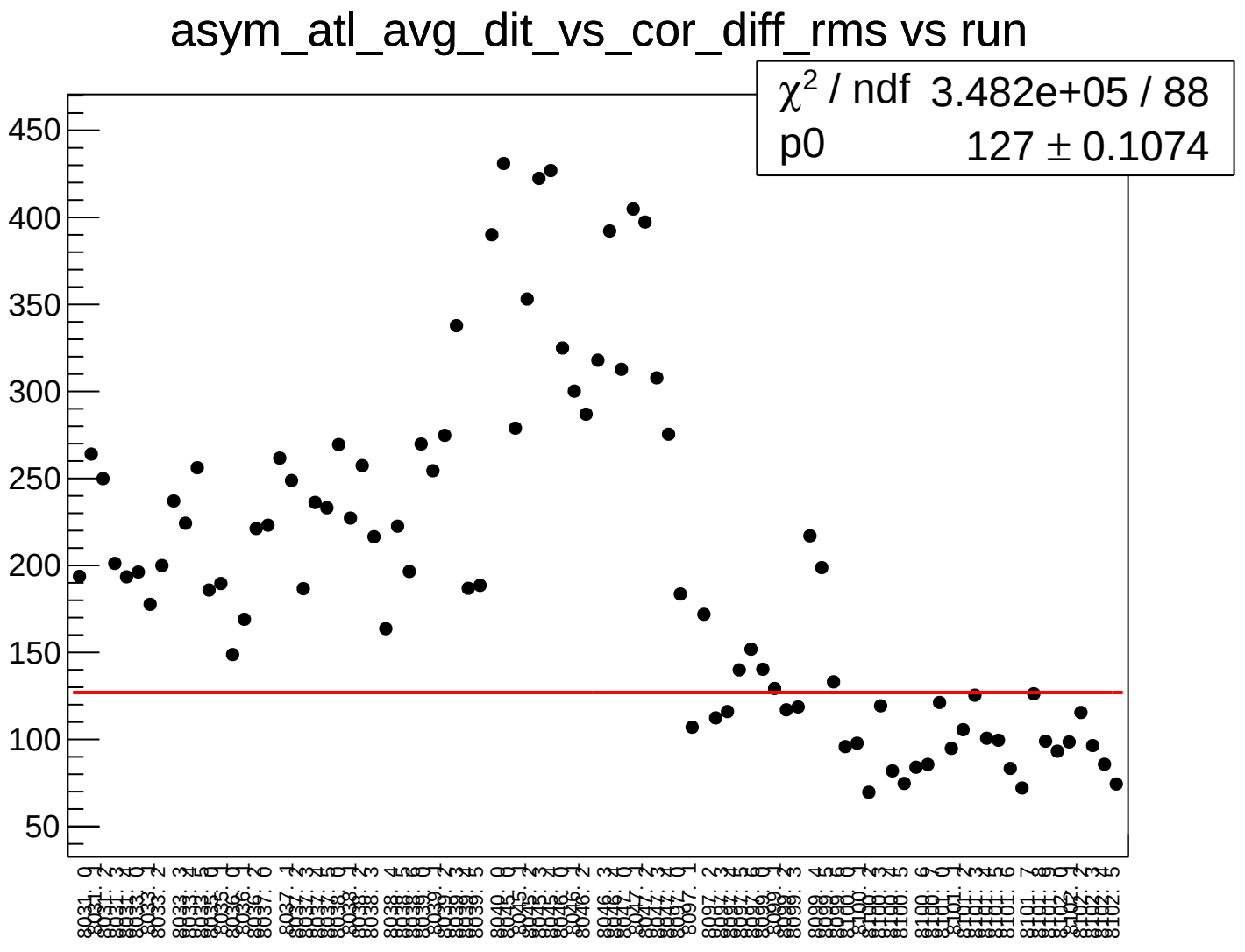

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 82.87 / 88
p0 4.424e−13 ± 4.926e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 89
Mean −114.6
Std Dev 0
3
2
1
0
−1
−2
−3

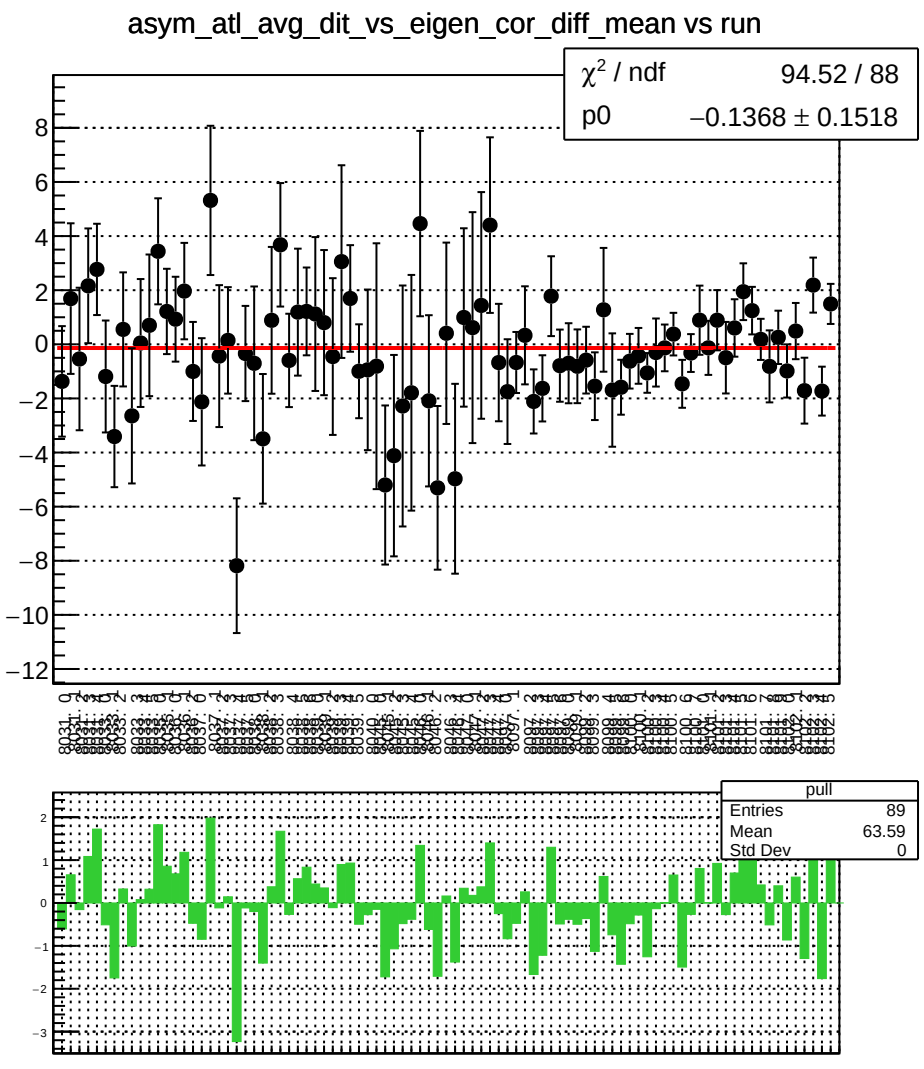

pull1D
Entries 89
Mean 0.0305
Std Dev 0.9645
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

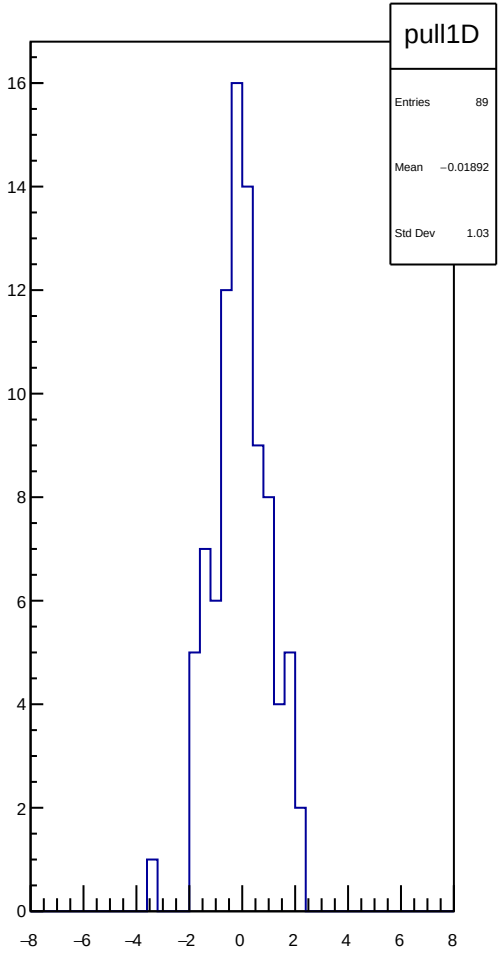

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.09e+06 / 88
p0 2.824e−10 ± 3.483e−13
1.2
1
0.8
0.6
0.4
0.2
0

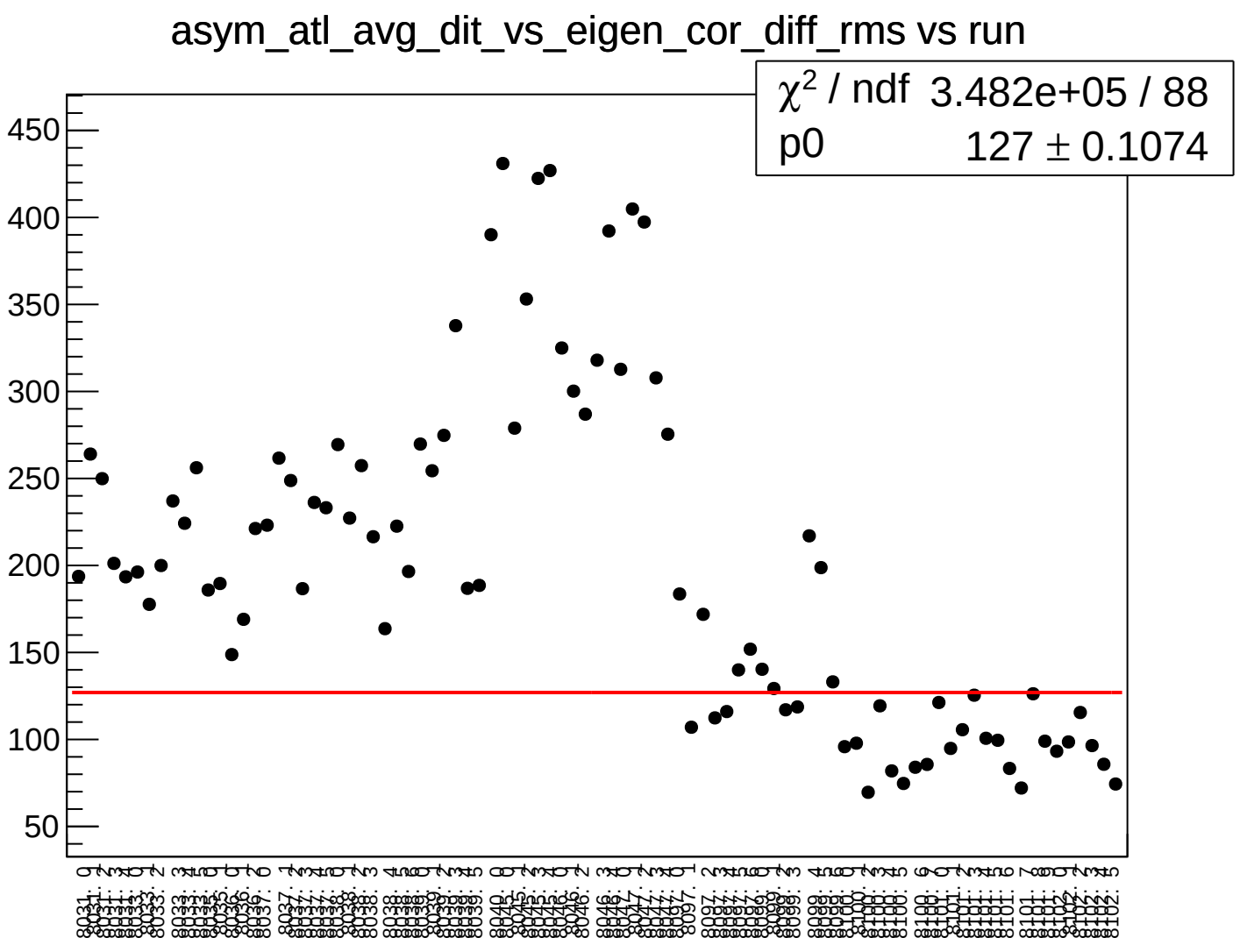

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 94.52 / 88
p0 −0.1368 ± 0.1518
pull
Entries 89
Mean 63.59
Std Dev 0

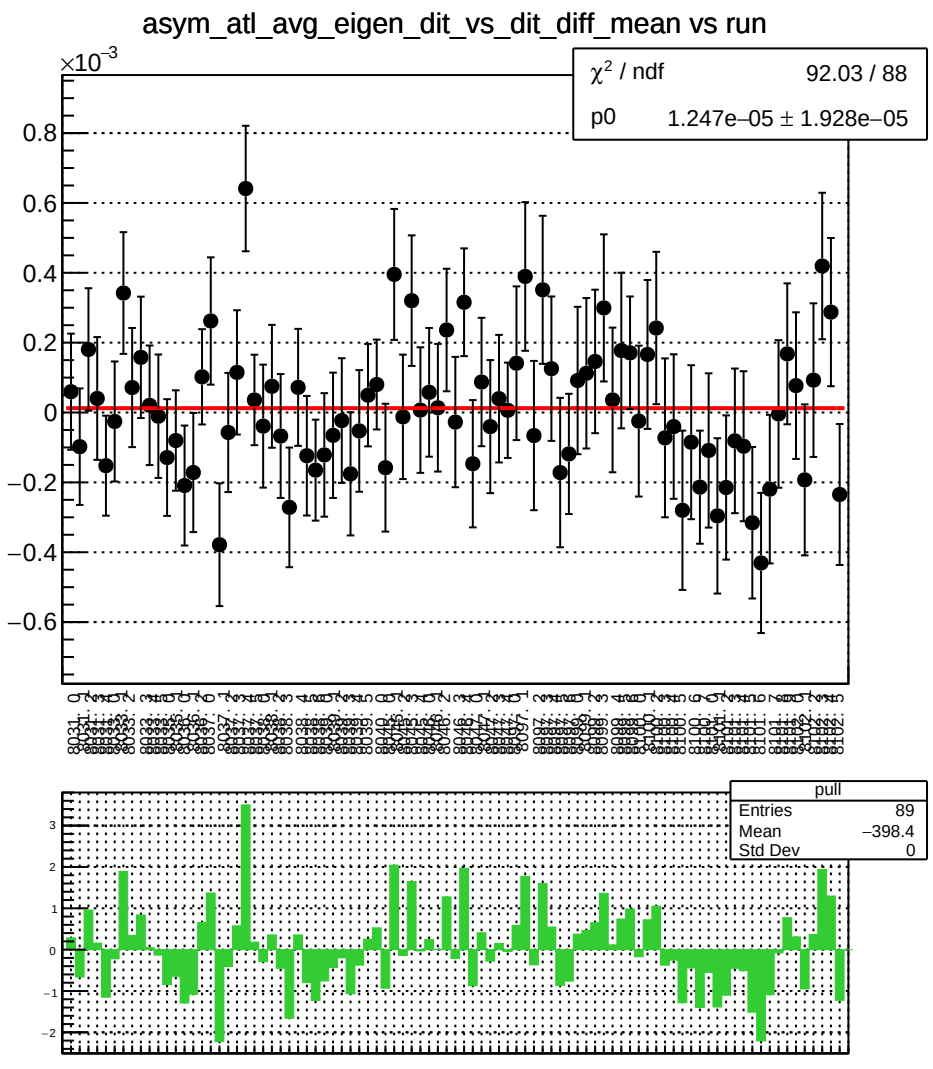

pull1D
Entries 89
Mean −0.01892
Std Dev 1.03

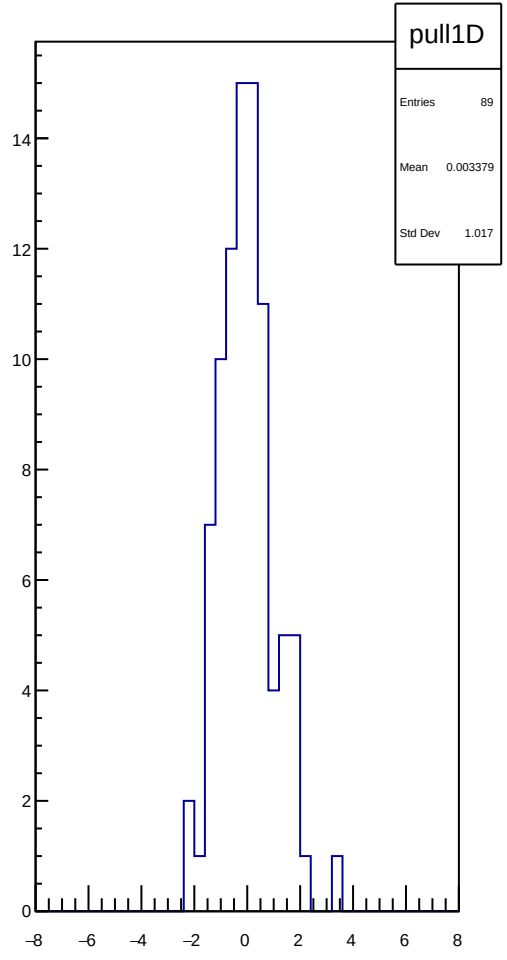

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.482e+05 / 88
p0 127 ± 0.1074
450
400
350
300
250
200
150
100
50

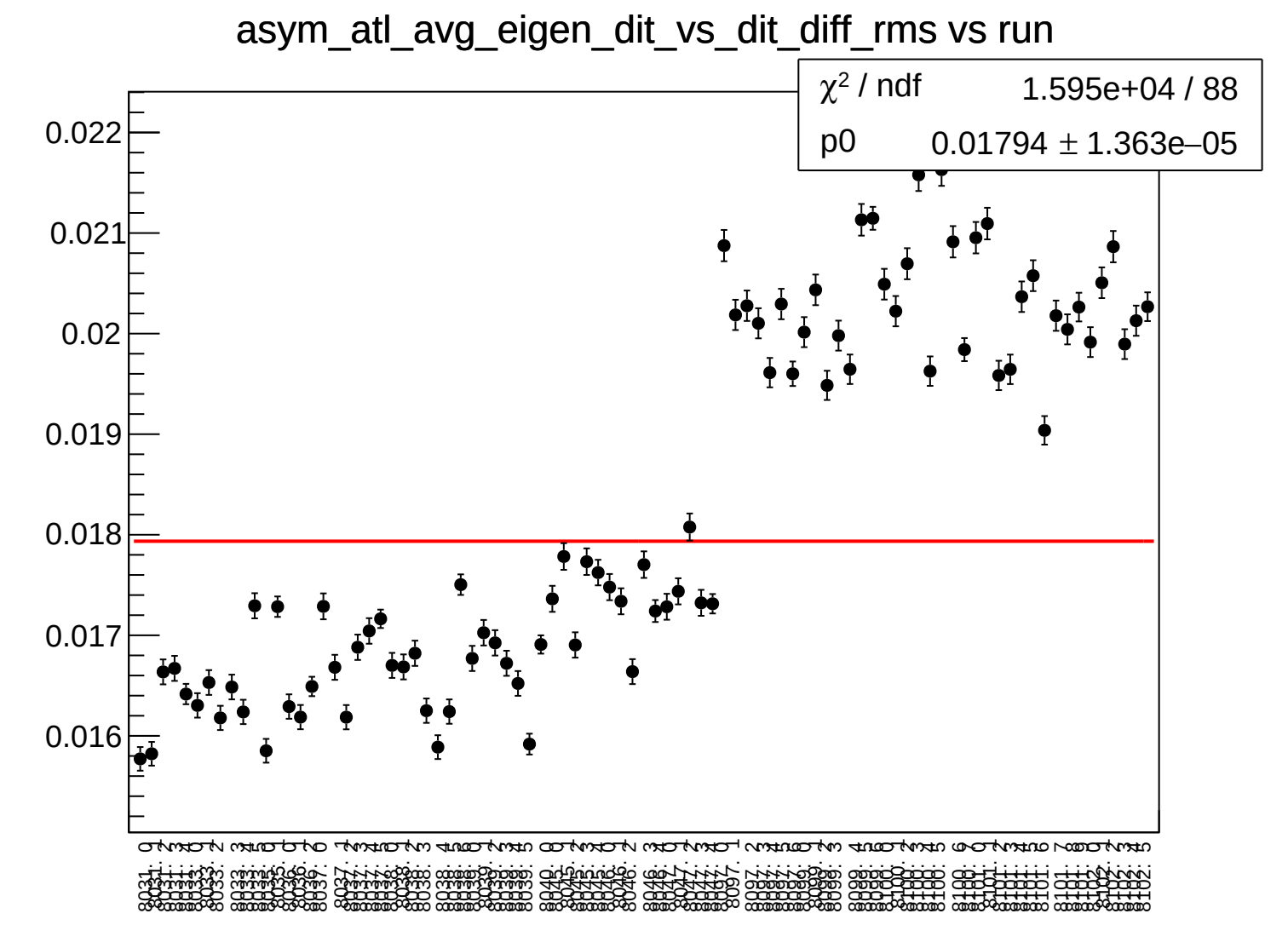

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.52 / 88
p0 −0.1368 ± 0.1518
pull
Entries 89
Mean 63.59
Std Dev 0

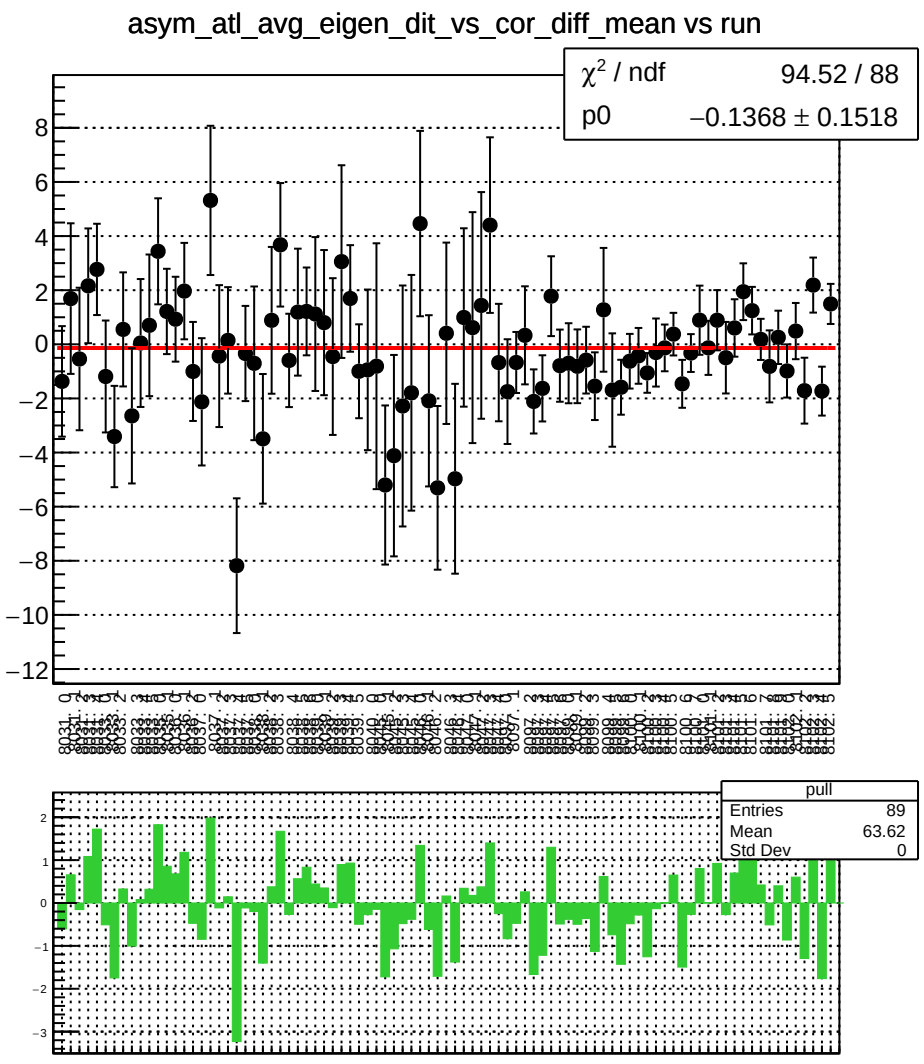

pull1D
Entries 89
Mean −0.01892
Std Dev 1.03

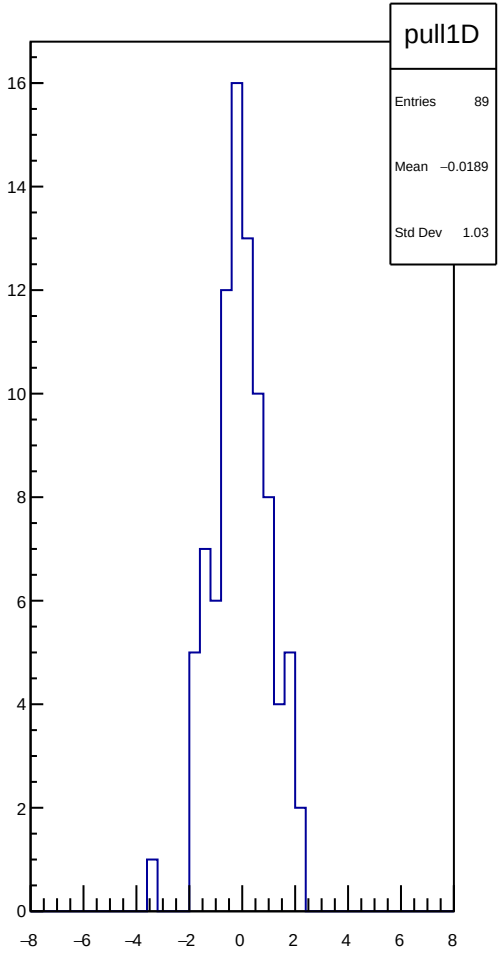

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 3.482e+05 / 88
p0 127 ± 0.1074
450
400
350
300
250
200
150
100
50

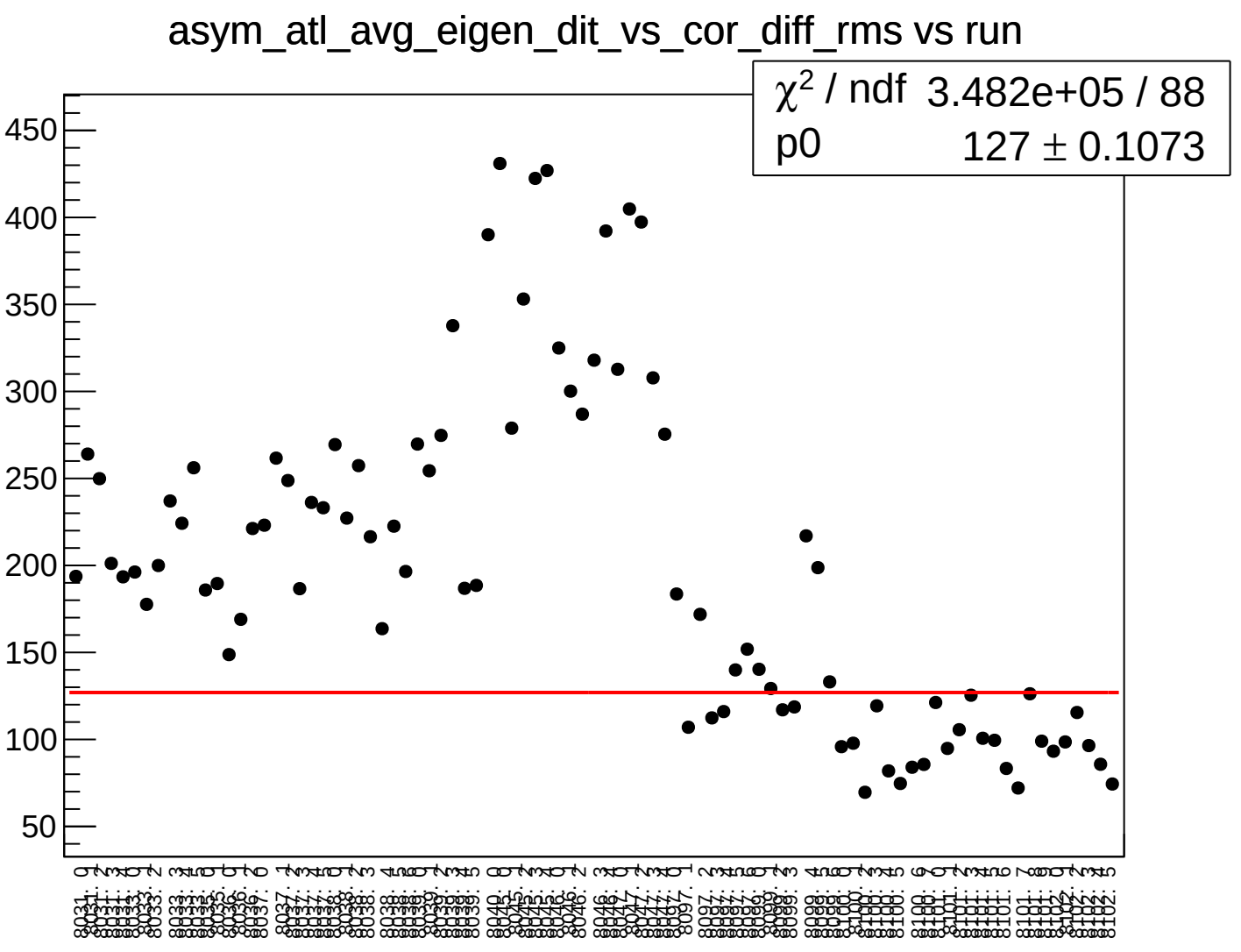

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.03 / 88
p0 1.247e−05 ± 1.928e−05
pull
Entries 89
Mean −398.4
Std Dev 0

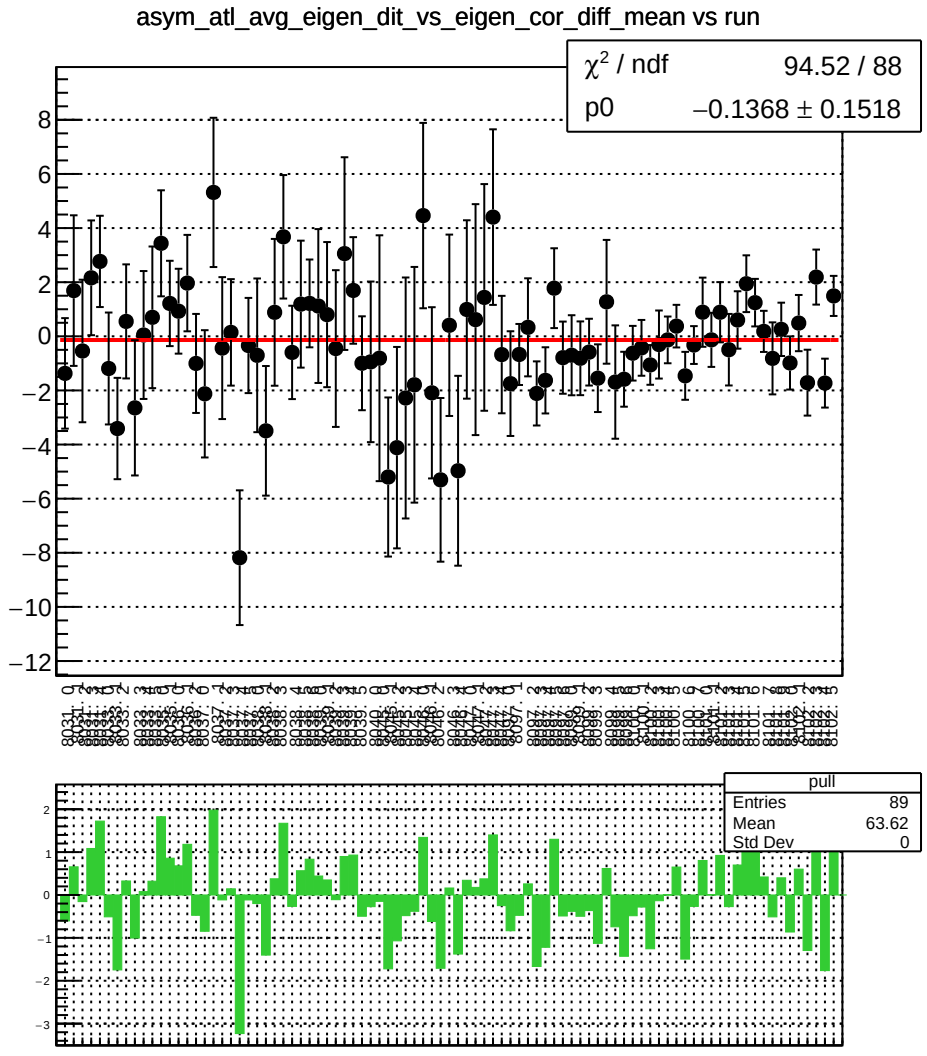

pull1D
Entries 89
Mean 0.003379
Std Dev 1.017

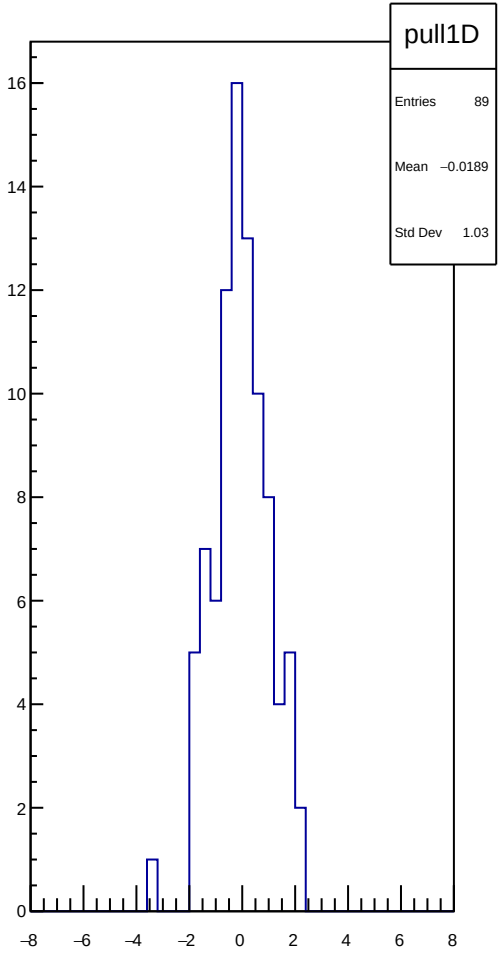

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.595e+04 / 88
p0 0.01794 ± 1.363e−05
0.022
0.021
0.02
0.019
0.018
0.017
0.016

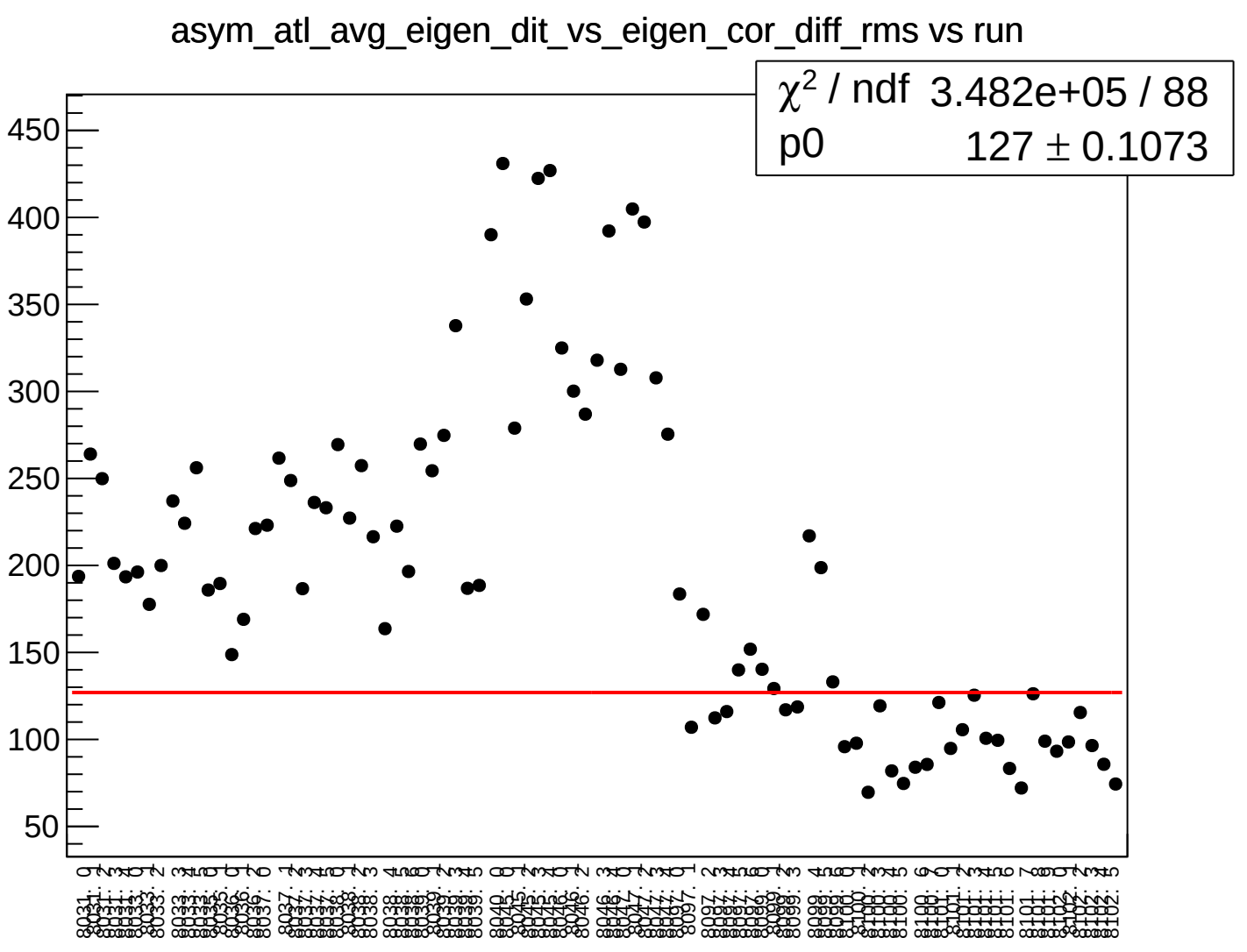

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.52 / 88
p0 −0.1368 ± 0.1518
pull
Entries 89
Mean 63.62
Std Dev 0

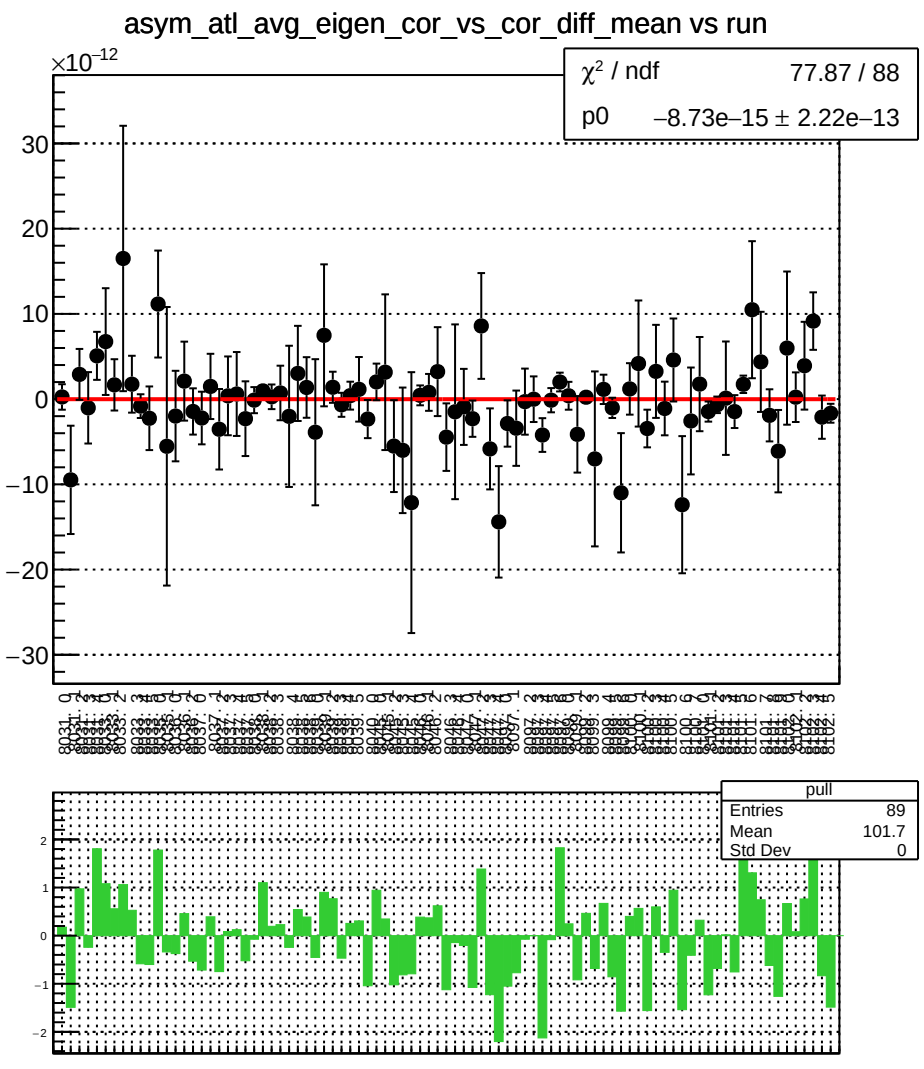

pull1D
Entries 89
Mean −0.0189
Std Dev 1.03

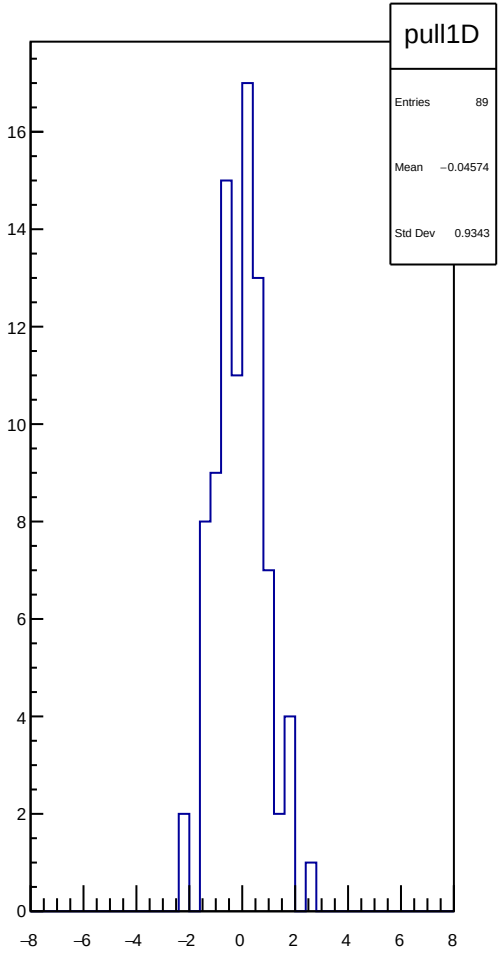

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.482e+05 / 88
p0 127 ± 0.1073
450
400
350
300
250
200
150
100
50

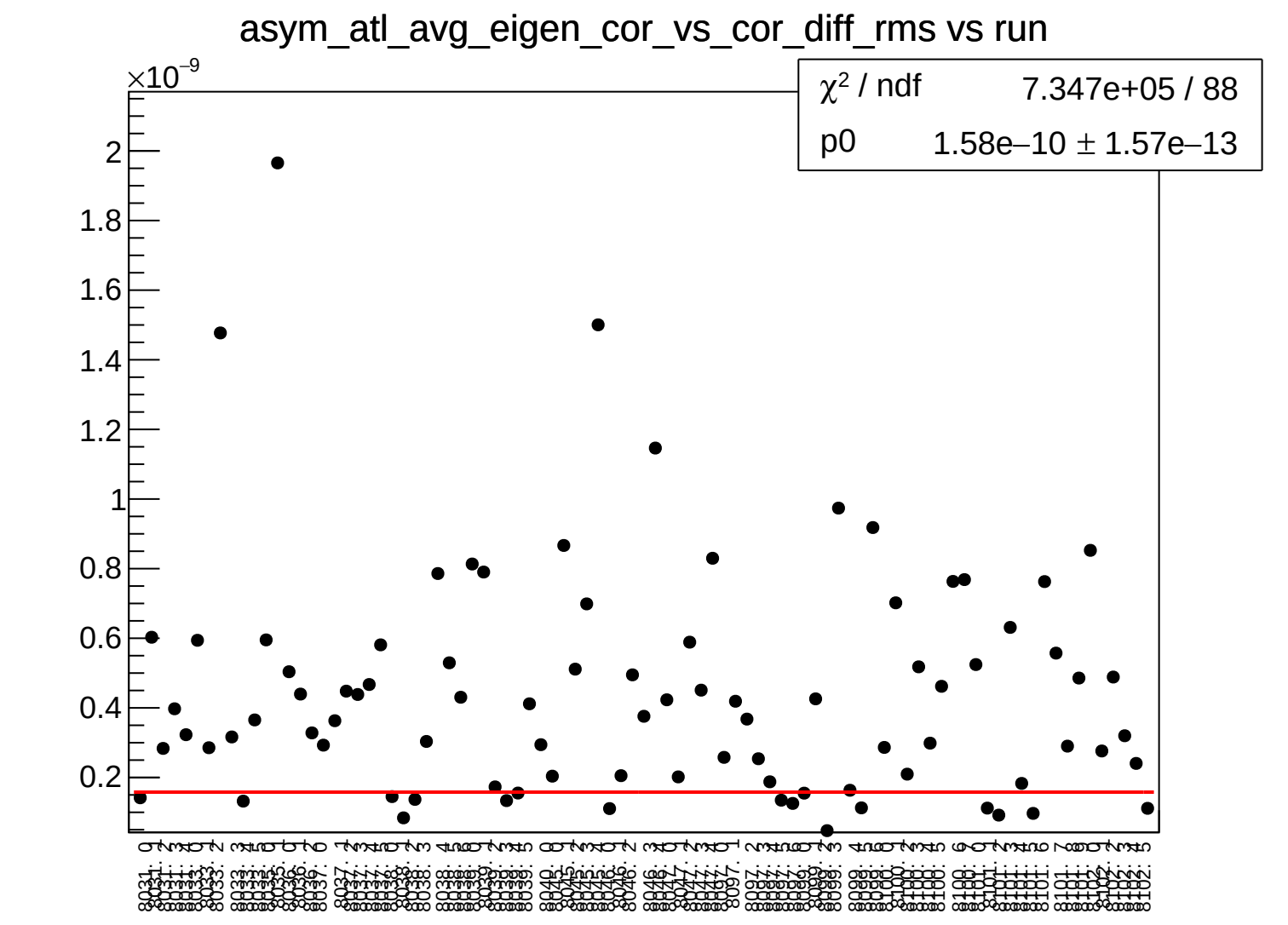

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.52 / 88
p0 −0.1368 ± 0.1518
pull
Entries 89
Mean 63.62
Std Dev 0

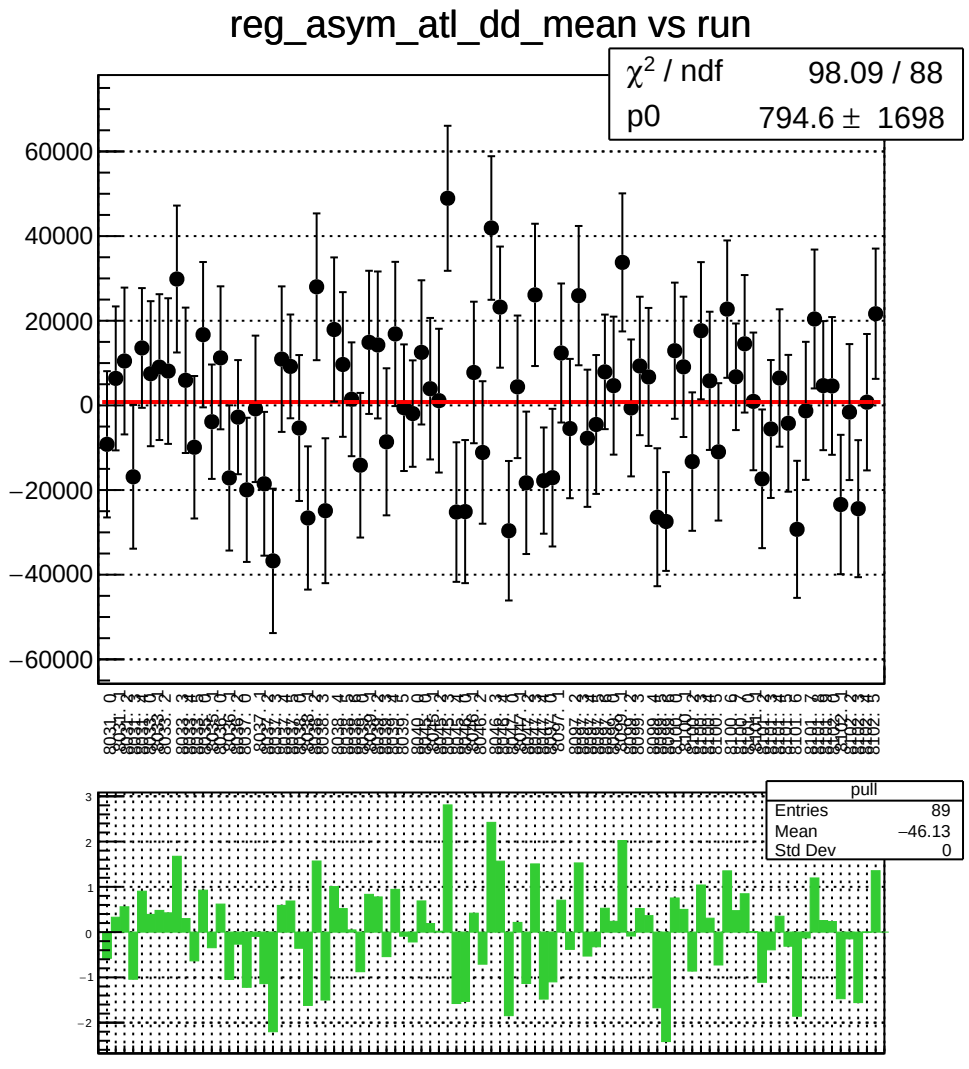

pull1D
Entries 89
Mean −0.0189
Std Dev 1.03

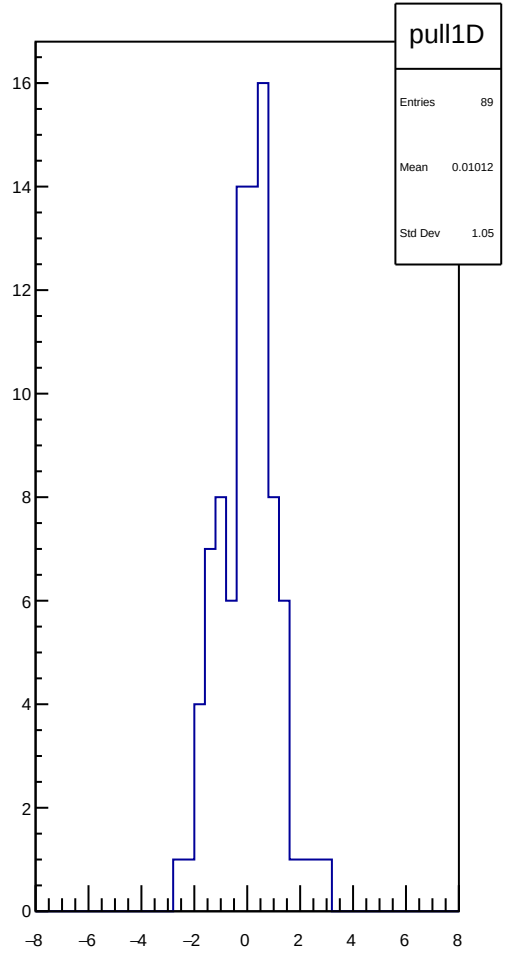

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.482e+05 / 88
p0 127 ± 0.1073
450
400
350
300
250
200
150
100
50

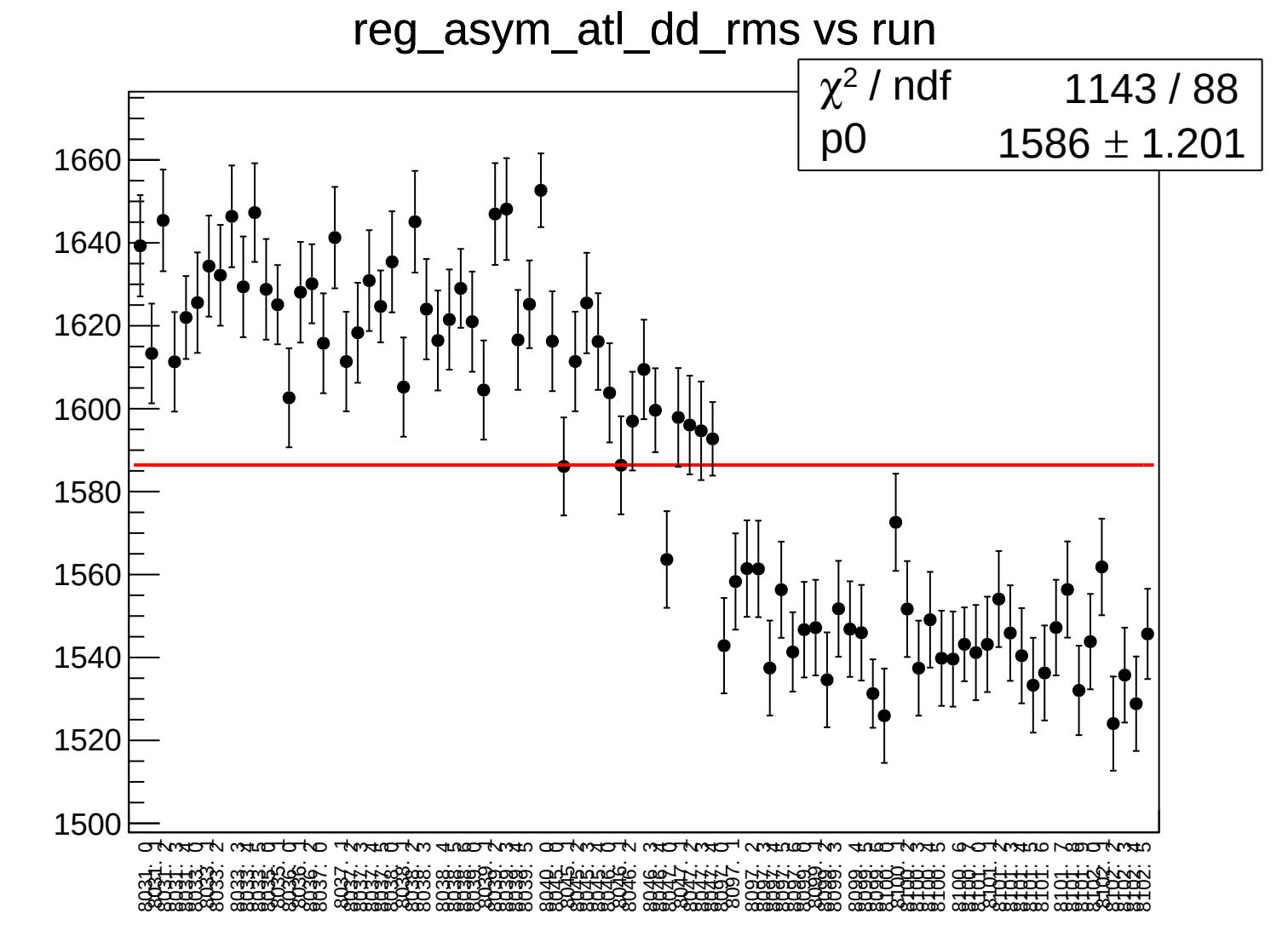

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.87 / 88
p0 −8.73e−15 ± 2.22e−13
30
20
10
0
−10
−20
−30
pull
Entries 89
Mean 101.7
Std Dev 0
2
1
0
−1
−2

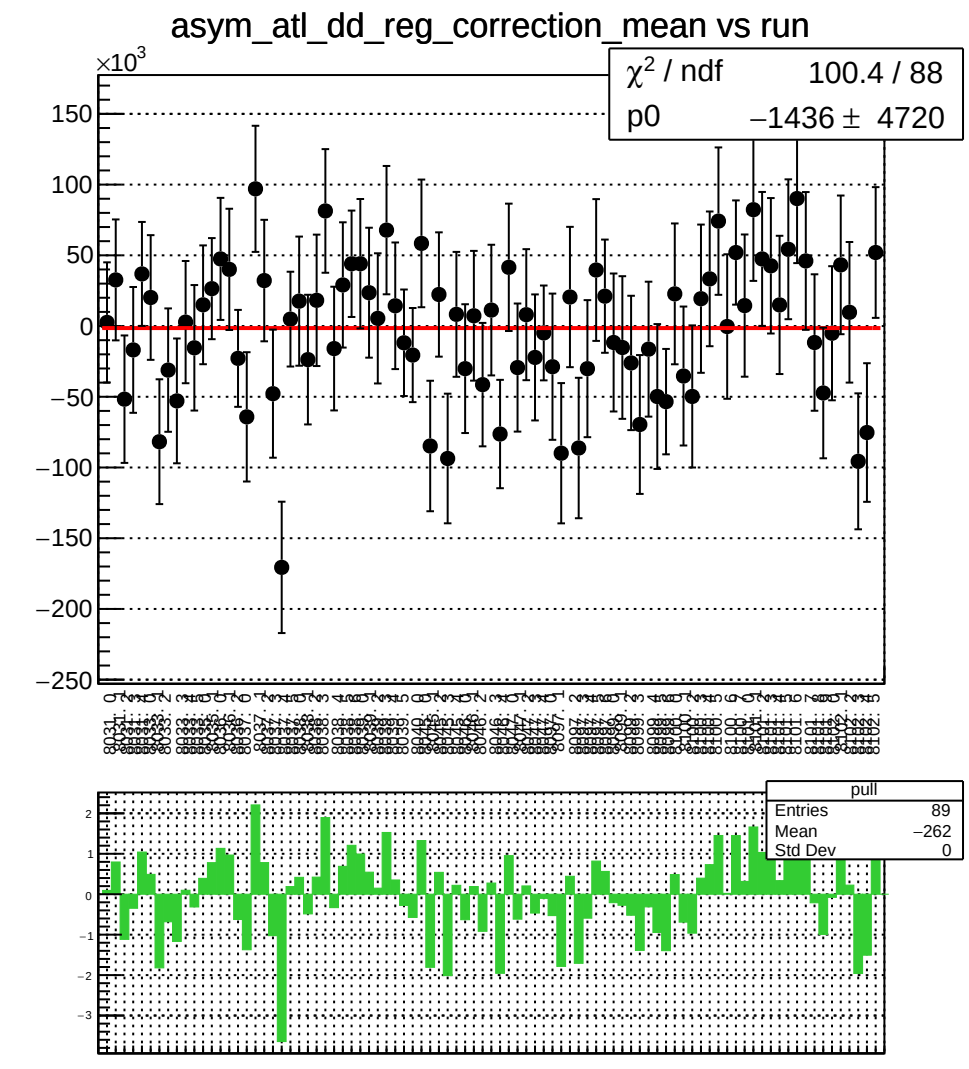

pull1D
Entries 89
Mean −0.04574
Std Dev 0.9343
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

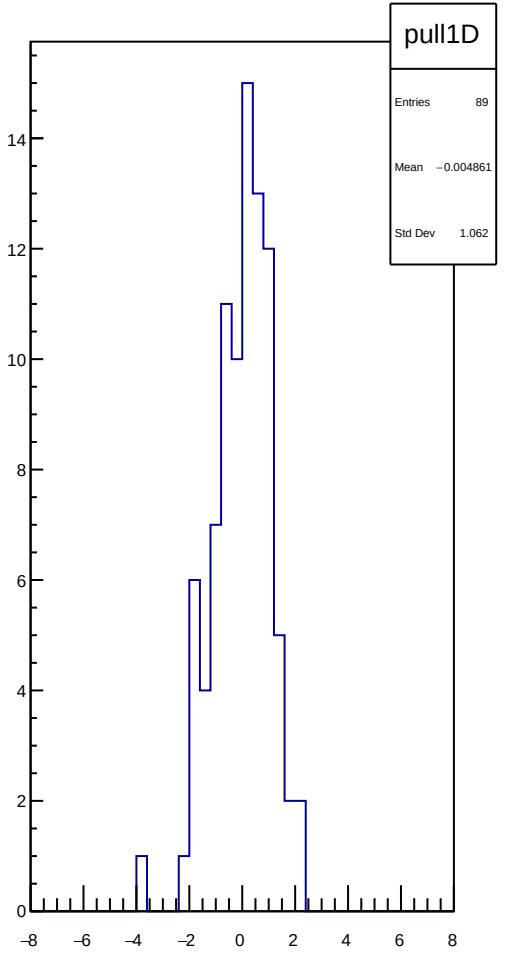

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.347e+05 / 88
p0 1.58e−10 ± 1.57e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

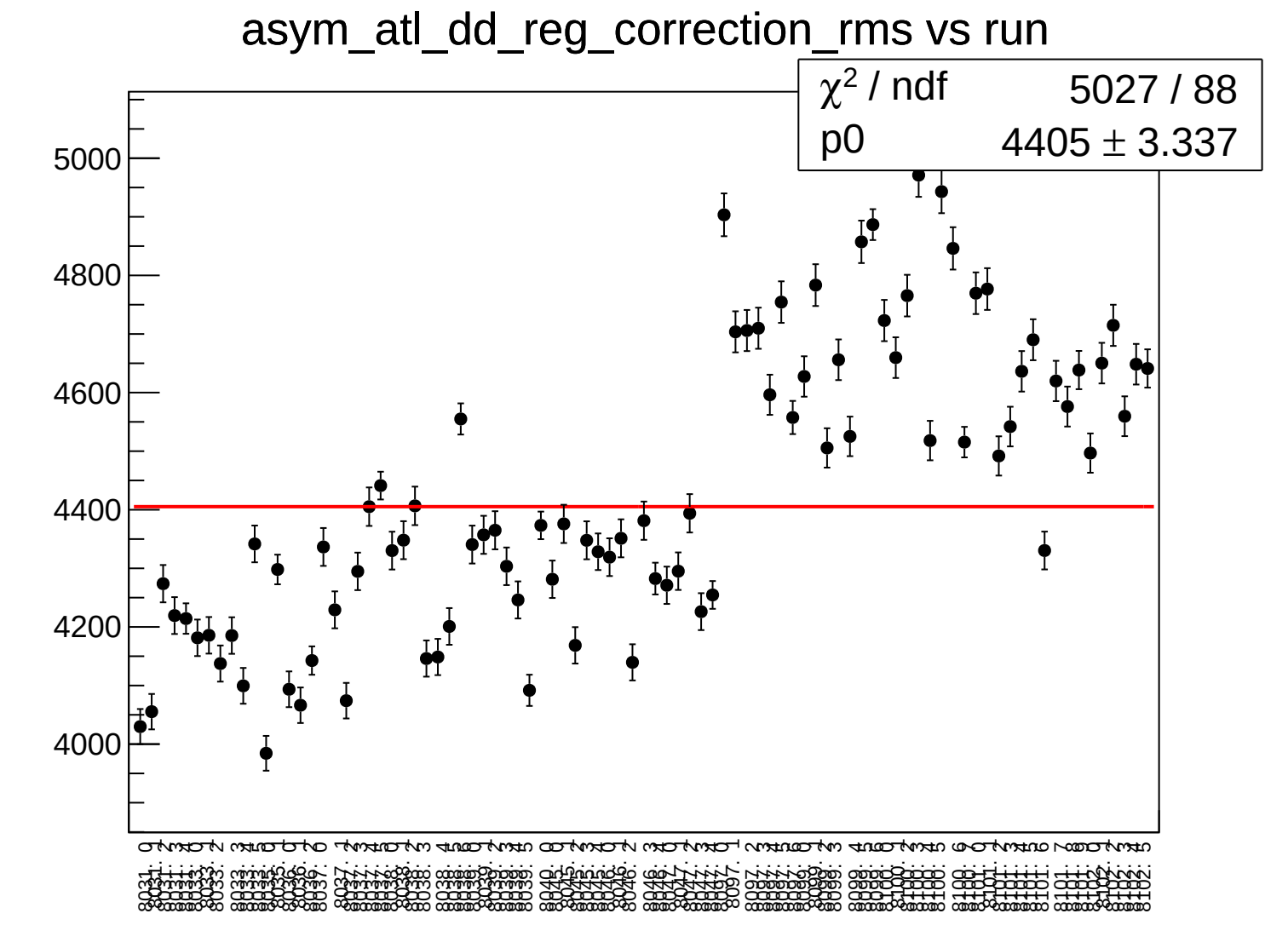

reg_asym_atl_dd_mean vs run
χ² / ndf 98.09 / 88
p0 794.6 ± 1698
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −46.13
Std Dev 0
3
2
1
0
−1
−2

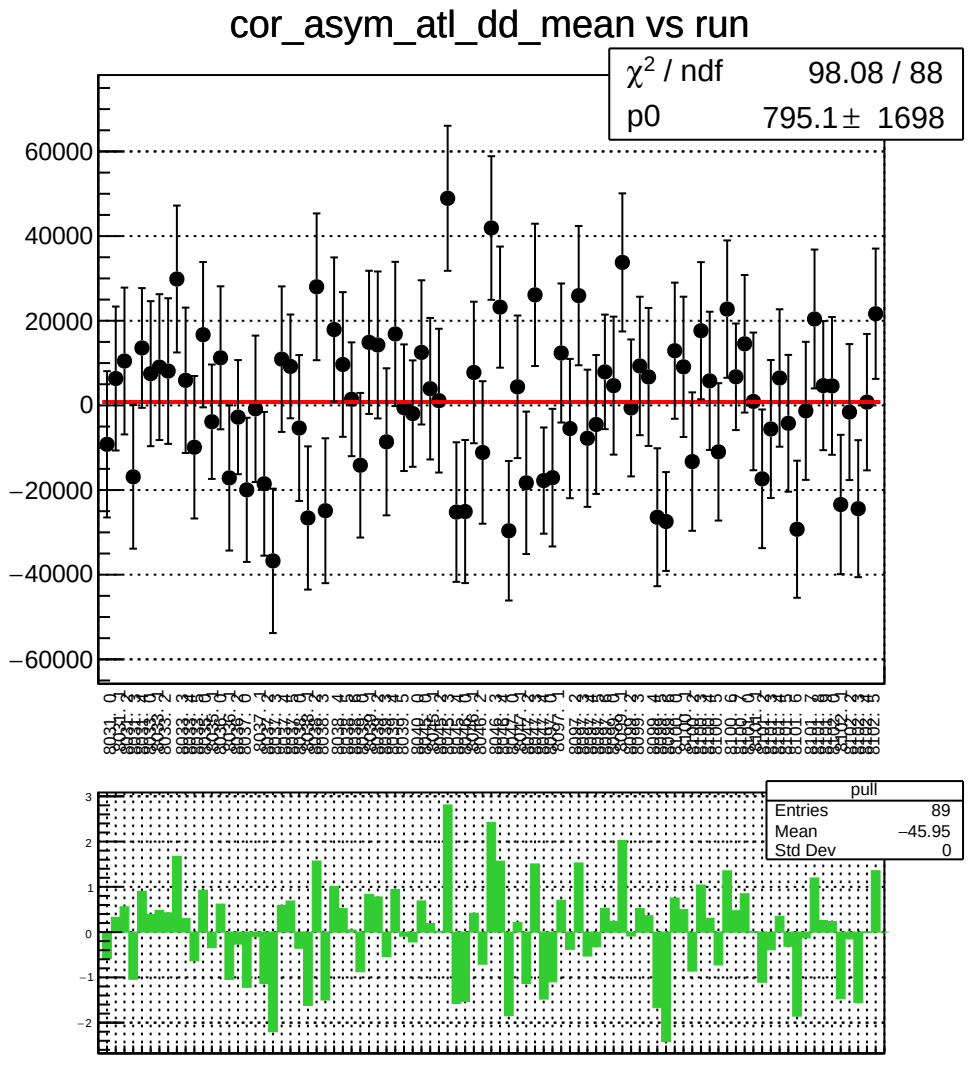

pull1D
Entries 89
Mean 0.01012
Std Dev 1.05
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

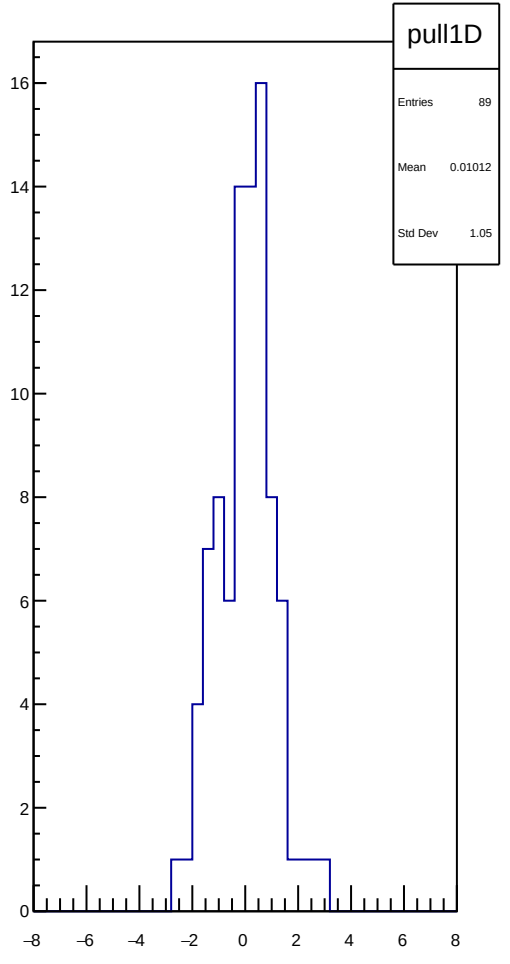

reg_asym_atl_dd_rms vs run
χ² / ndf 1143 / 88
p0 1586 ± 1.201
1660
1640
1620
1600
1580
1560
1540
1520
1500

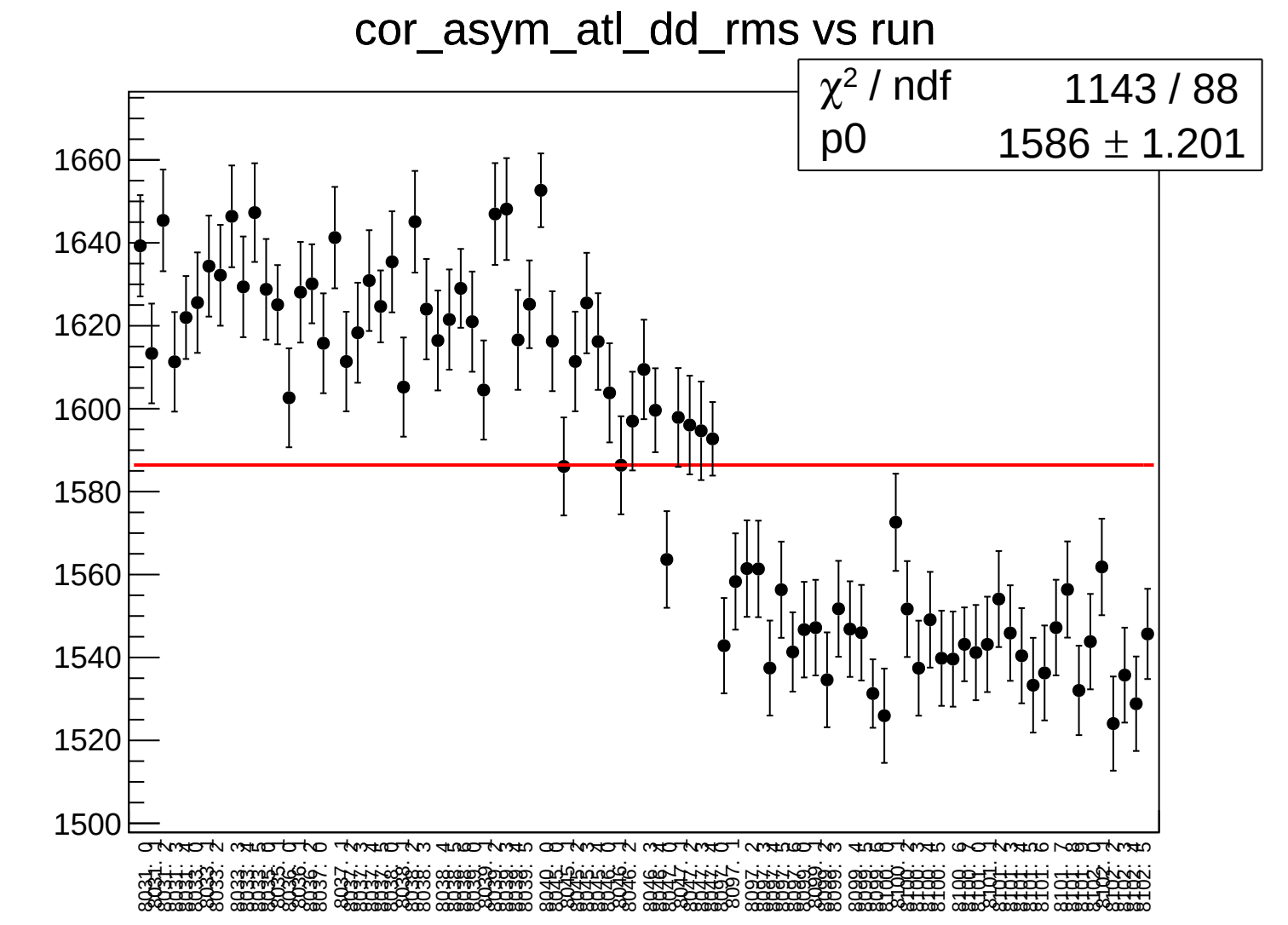

asym_atl_dd_reg_correction_mean vs run
×10^3
χ² / ndf 100.4 / 88
p0 −1436 ± 4720
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 89
Mean −262
Std Dev 0
2
1
0
−1
−2
−3

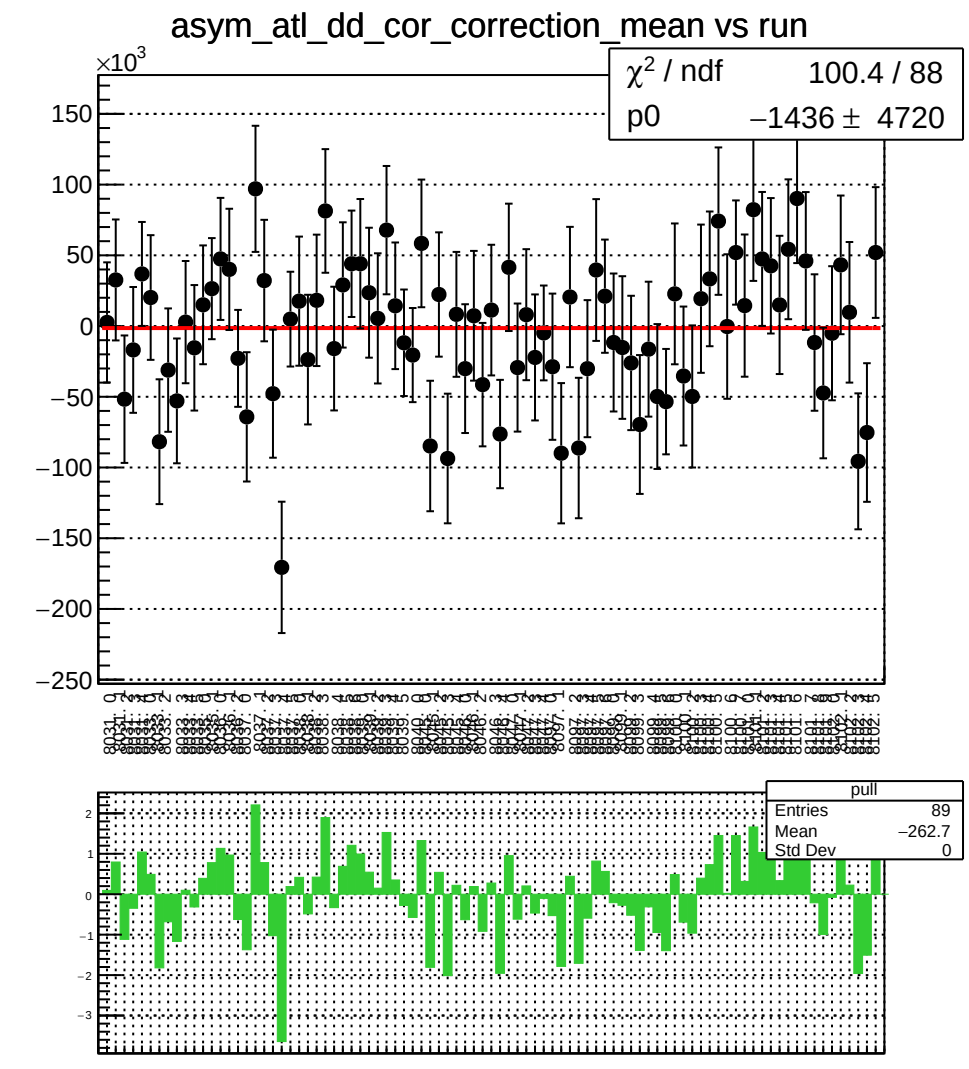

pull1D
Entries 89
Mean −0.004861
Std Dev 1.062
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

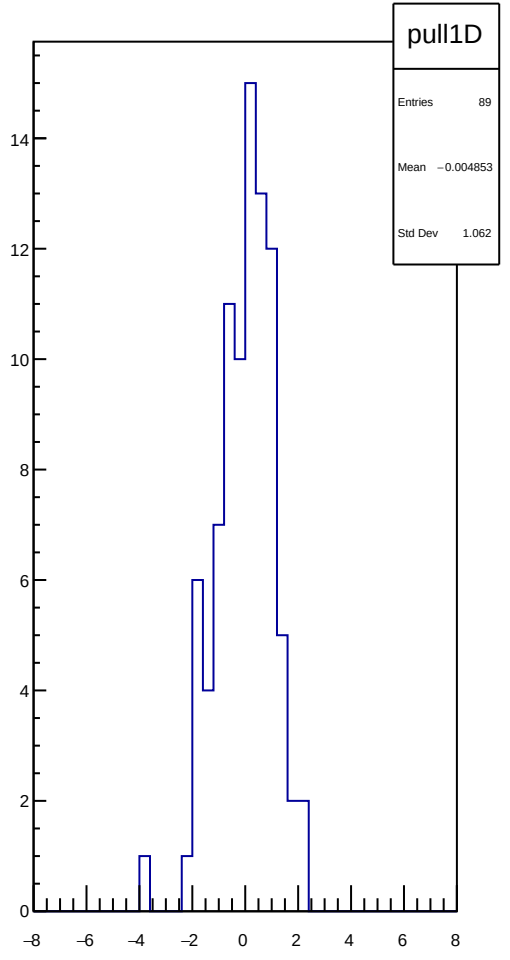

asym_atl_dd_reg_correction_rms vs run
χ² / ndf 5027 / 88
p0 4405 ± 3.337
5000
4800
4600
4400
4200
4000

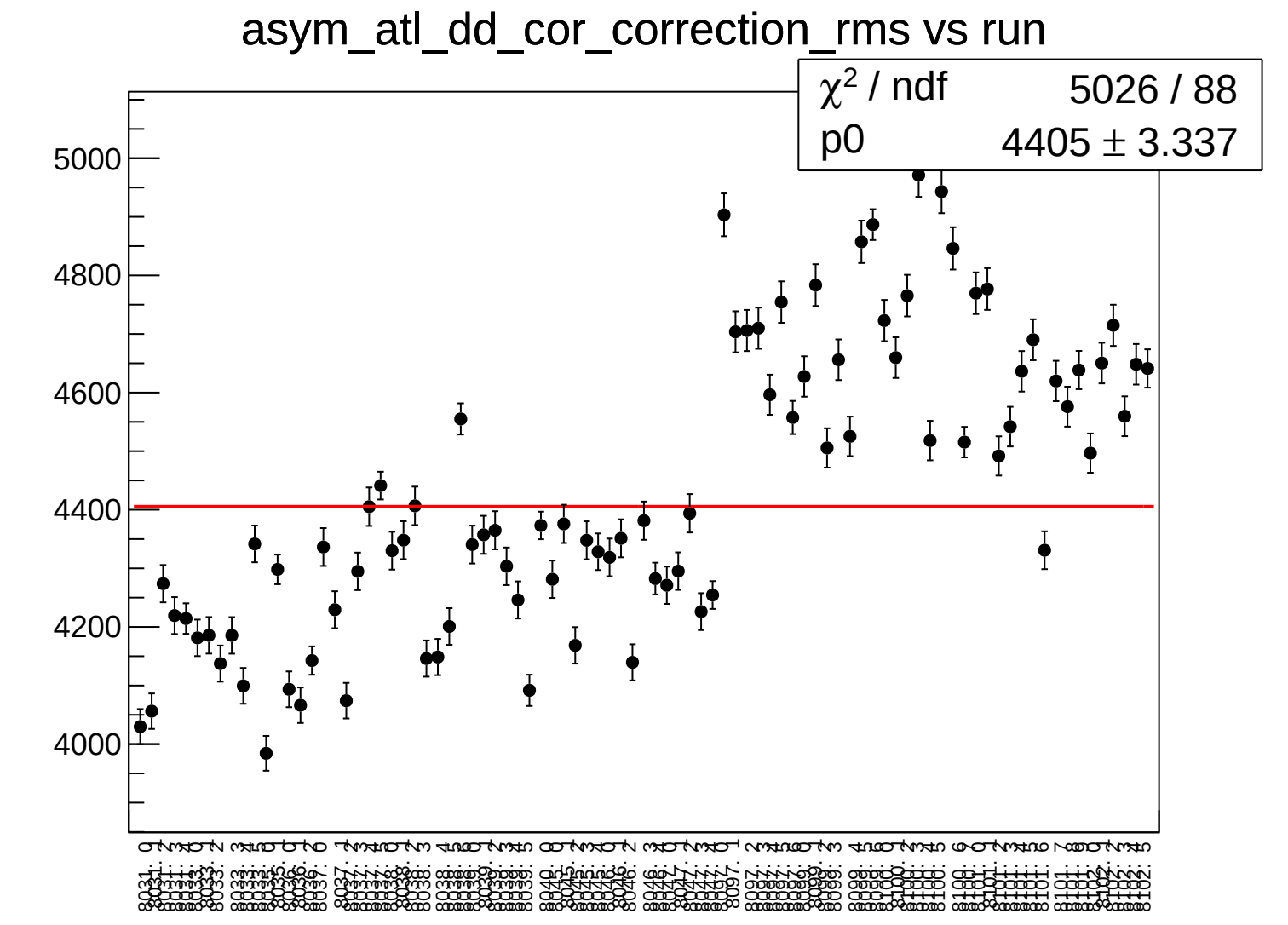

cor_asym_atl_dd_mean vs run
χ² / ndf 98.08 / 88
p0 795.1 ± 1698
pull
Entries 89
Mean −45.95
Std Dev 0

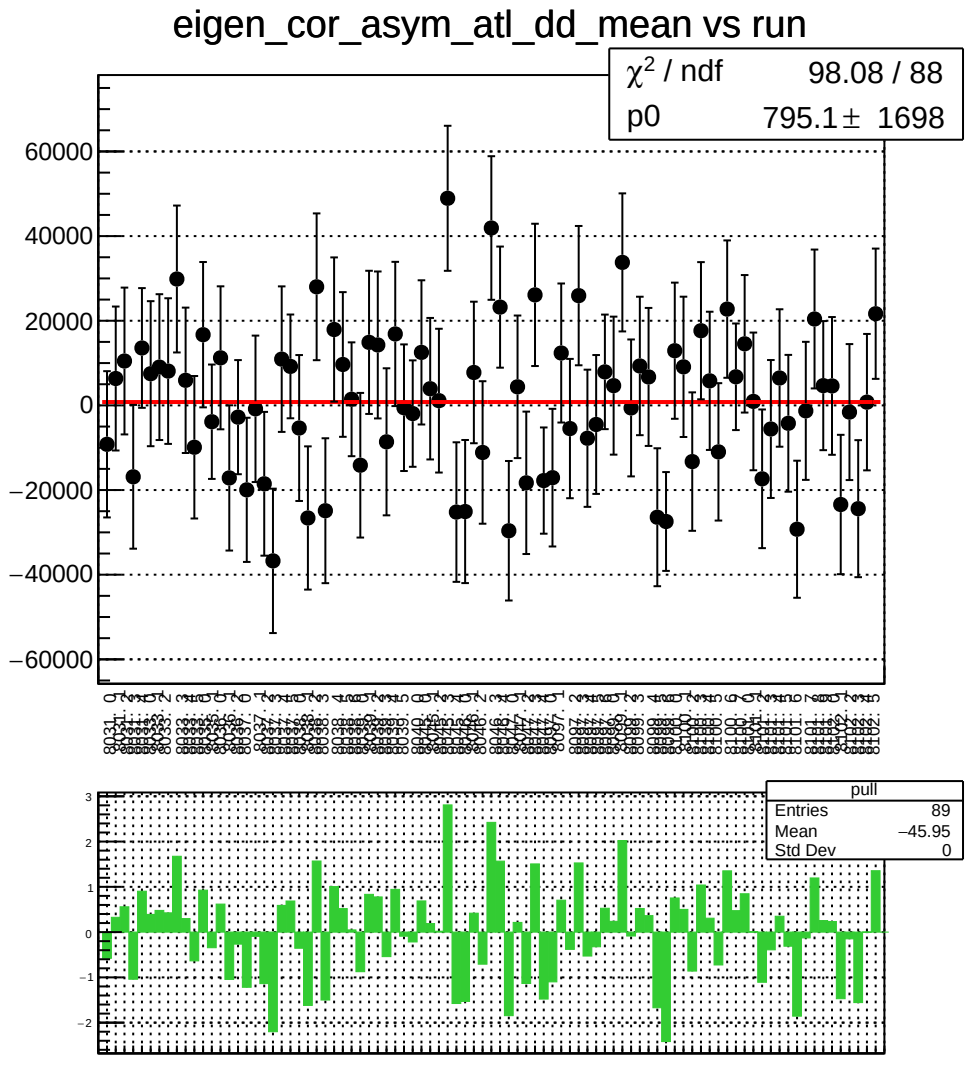

pull1D
Entries 89
Mean 0.01012
Std Dev 1.05

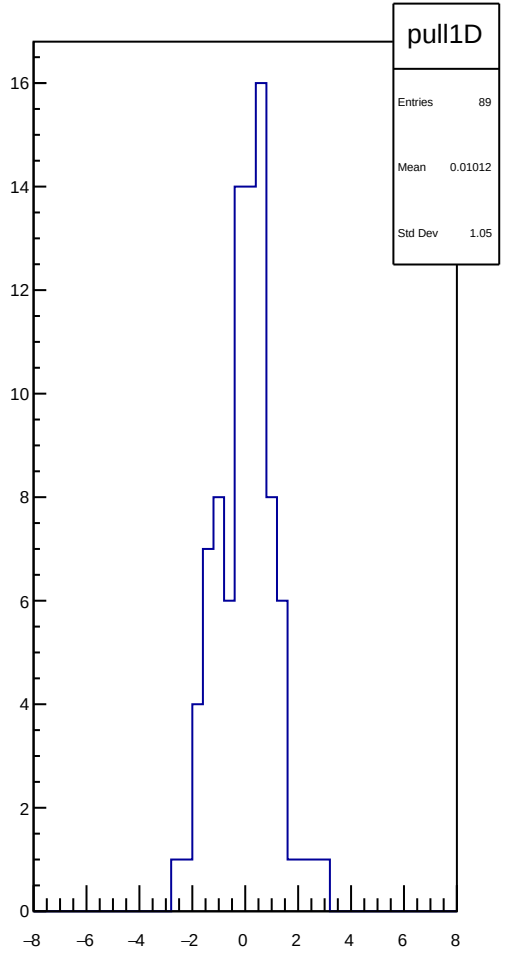

cor_asym_atl_dd_rms vs run
χ² / ndf 1143 / 88
p0 1586 ± 1.201
1660
1640
1620
1600
1580
1560
1540
1520
1500

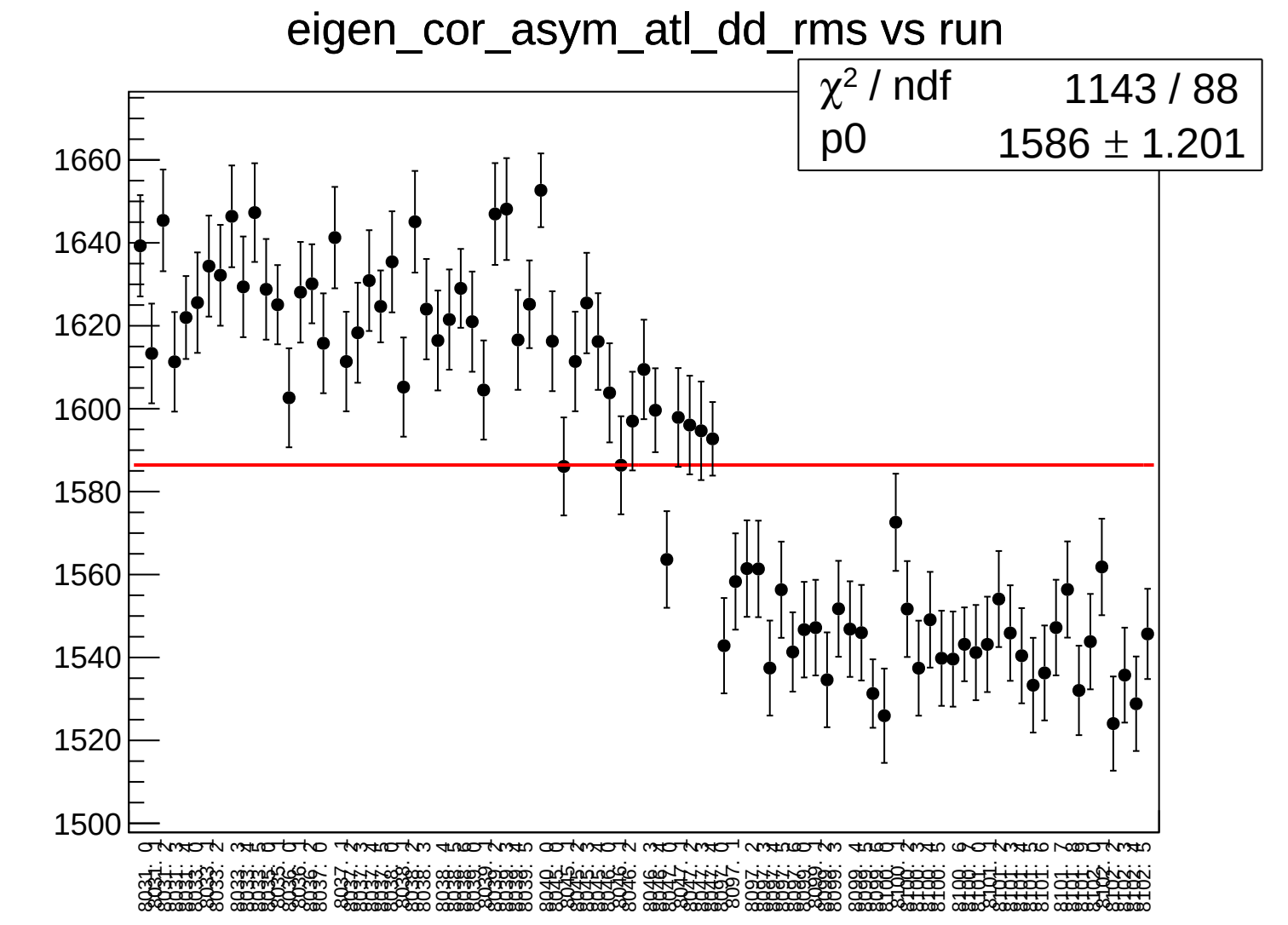

asym_atl_dd_cor_correction_mean vs run
×10^3
χ² / ndf 100.4 / 88
p0 −1436 ± 4720
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 89
Mean −262.7
Std Dev 0
2
1
0
−1
−2
−3

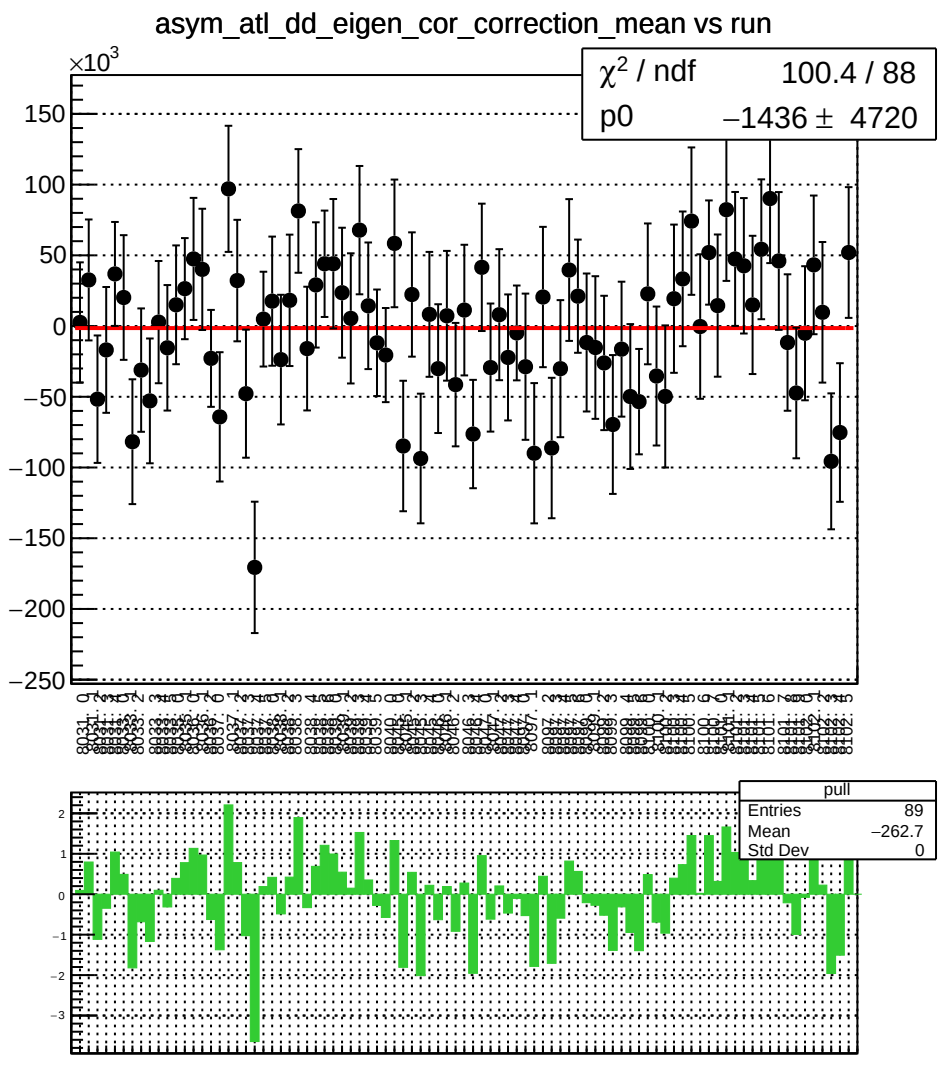

pull1D
Entries 89
Mean −0.004853
Std Dev 1.062
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

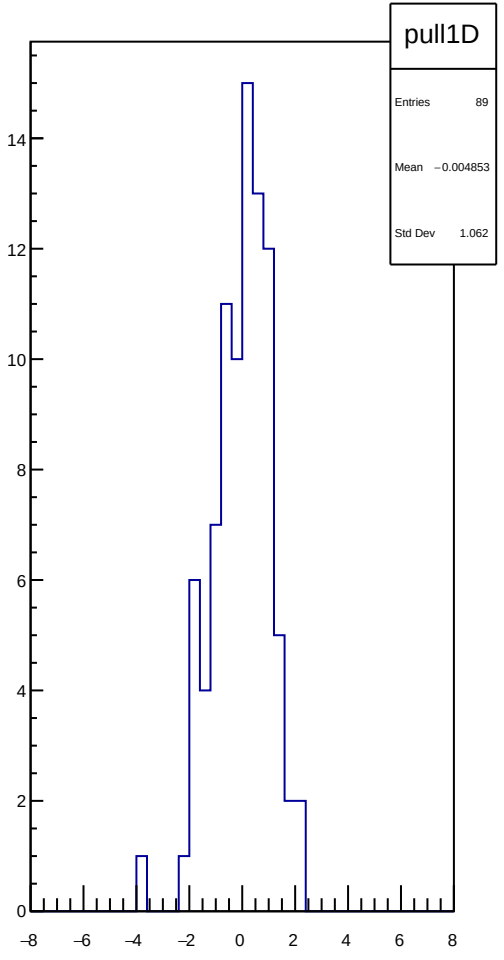

asym_atl_dd_cor_correction_rms vs run
χ² / ndf 5026 / 88
p0 4405 ± 3.337
5000
4800
4600
4400
4200
4000

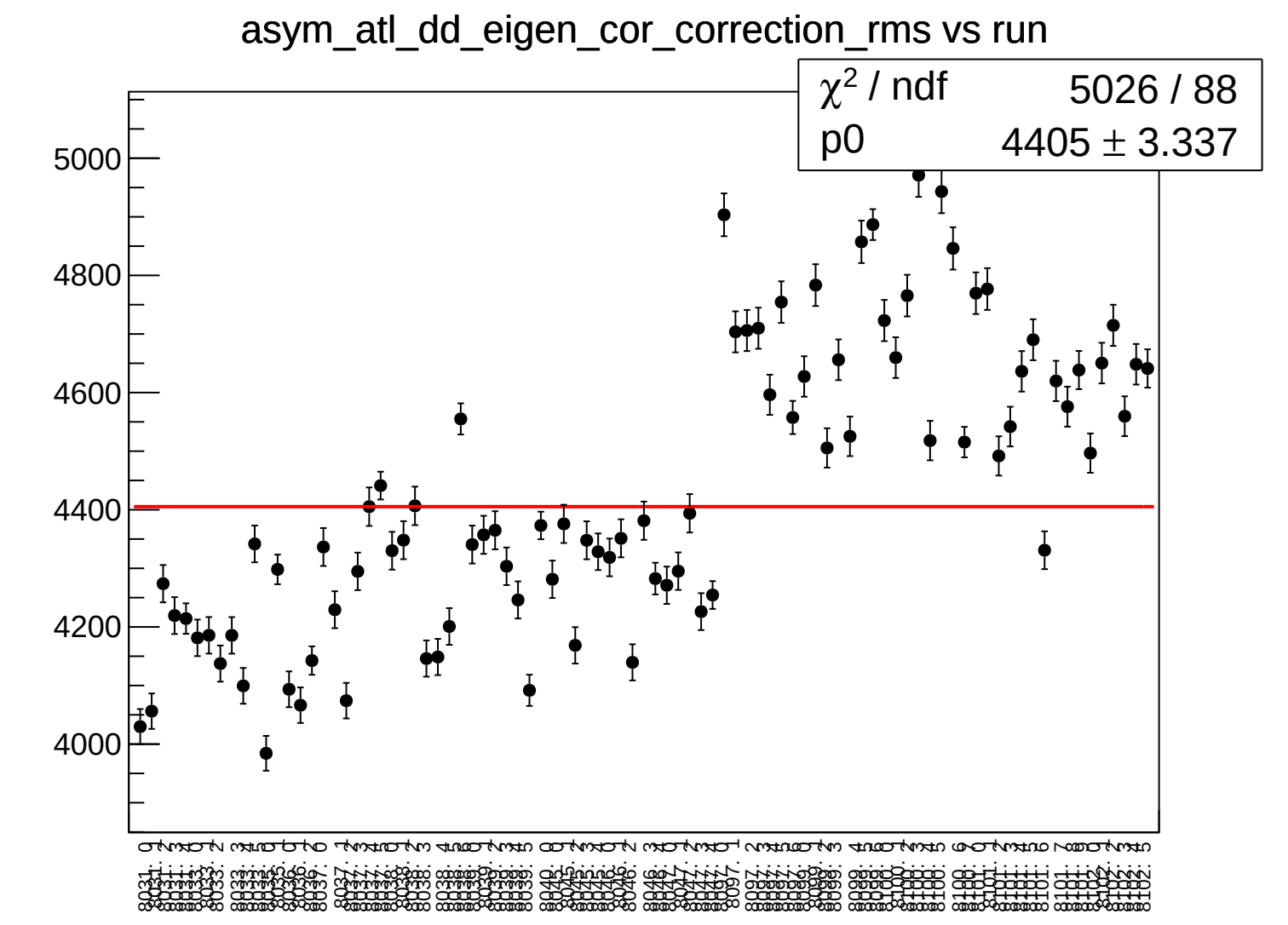

eigen_cor_asym_atl_dd_mean vs run
χ² / ndf 98.08 / 88
p0 795.1 ± 1698
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −45.95
Std Dev 0
3
2
1
0
−1
−2

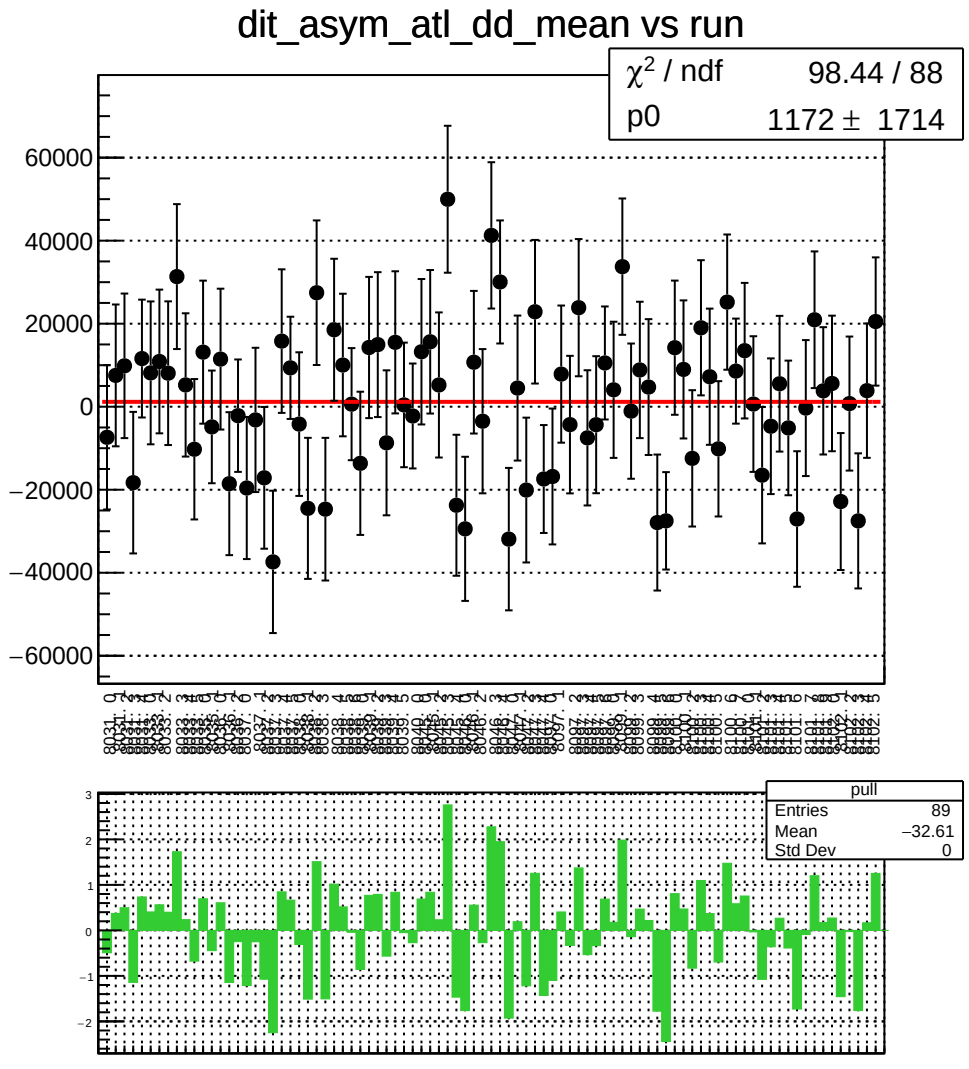

pull1D
Entries 89
Mean 0.01012
Std Dev 1.05
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

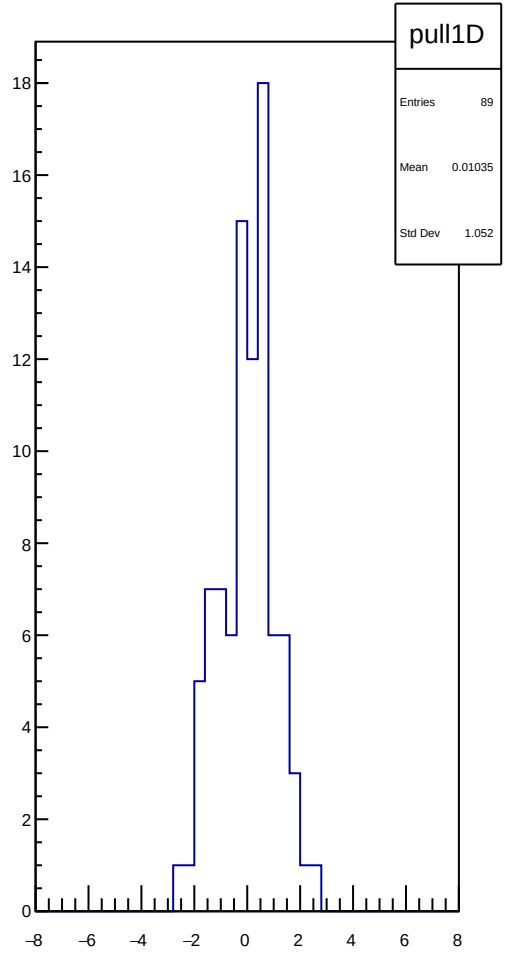

eigen_cor_asym_atl_dd_rms vs run
χ² / ndf 1143 / 88
p0 1586 ± 1.201
1660
1640
1620
1600
1580
1560
1540
1520
1500

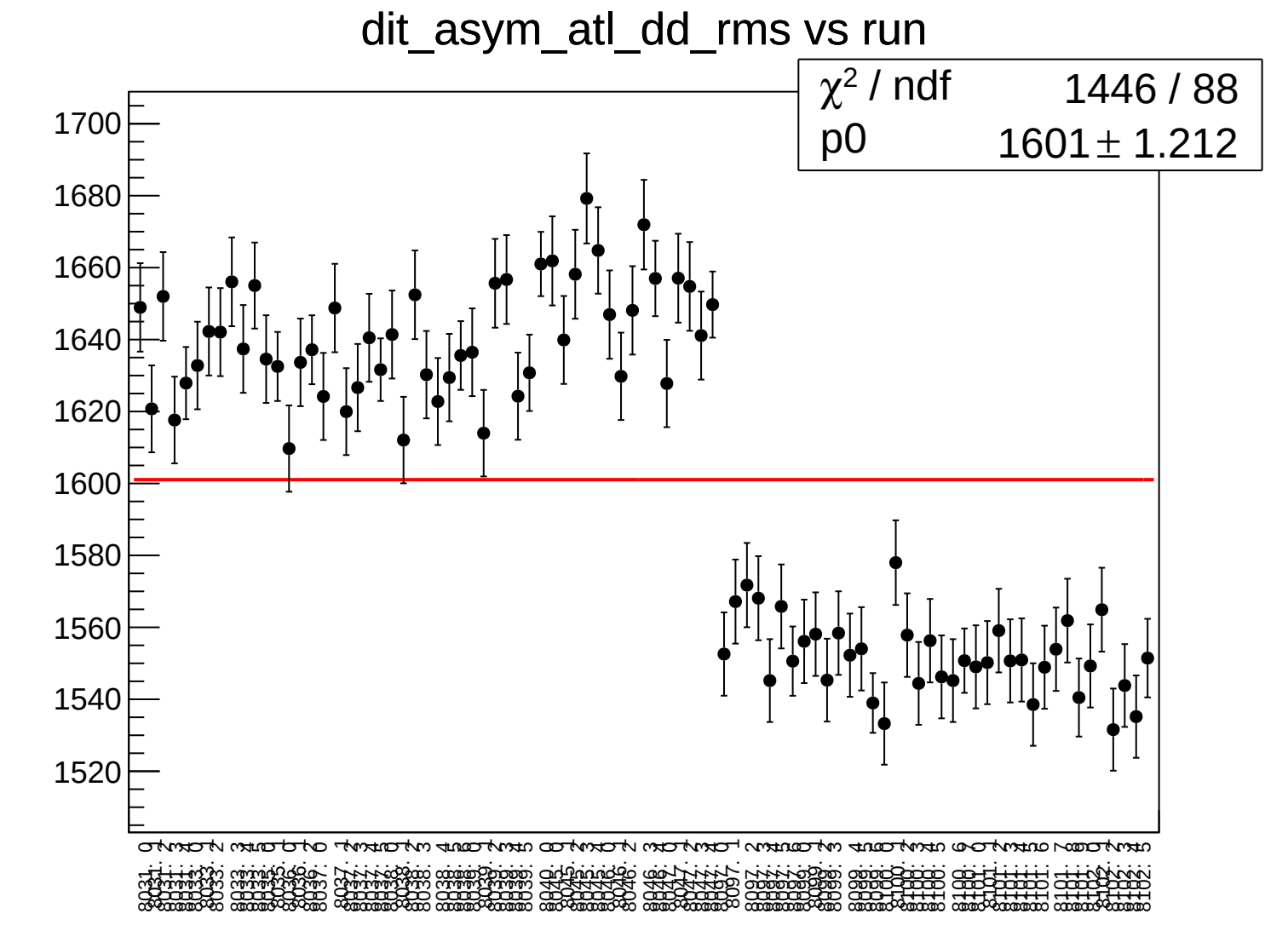

asym_atl_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 100.4 / 88
p0 −1436 ± 4720
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 89
Mean −262.7
Std Dev 0
2
1
0
−1
−2
−3

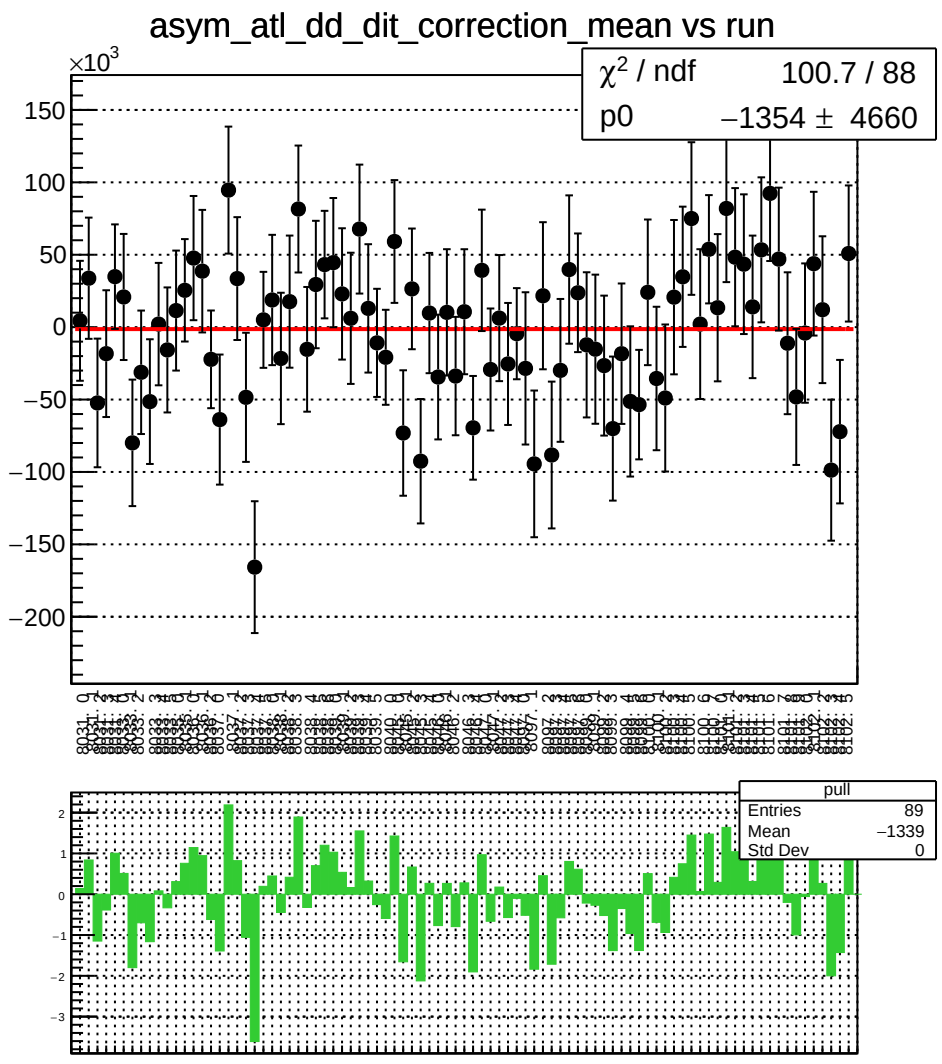

pull1D
Entries 89
Mean −0.004853
Std Dev 1.062
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

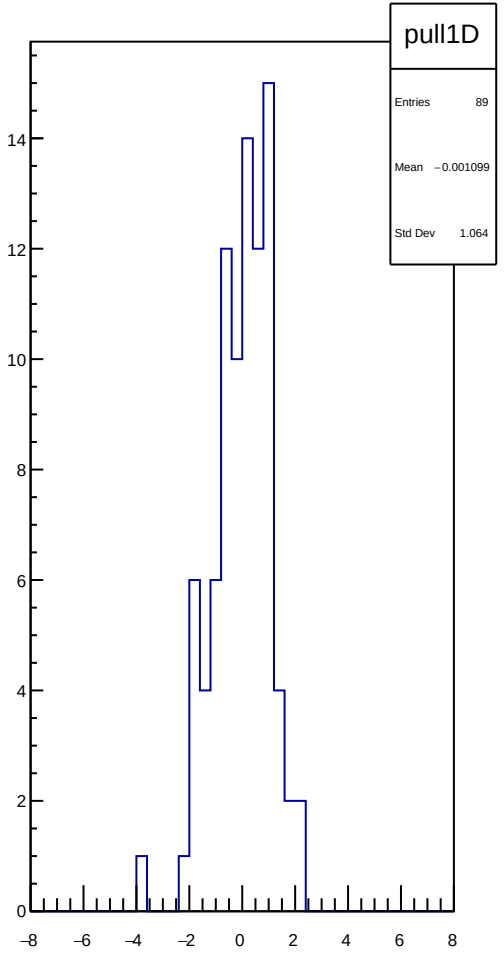

asym_atl_dd_eigen_cor_correction_rms vs run
χ² / ndf 5026 / 88
p0 4405 ± 3.337
5000
4800
4600
4400
4200
4000

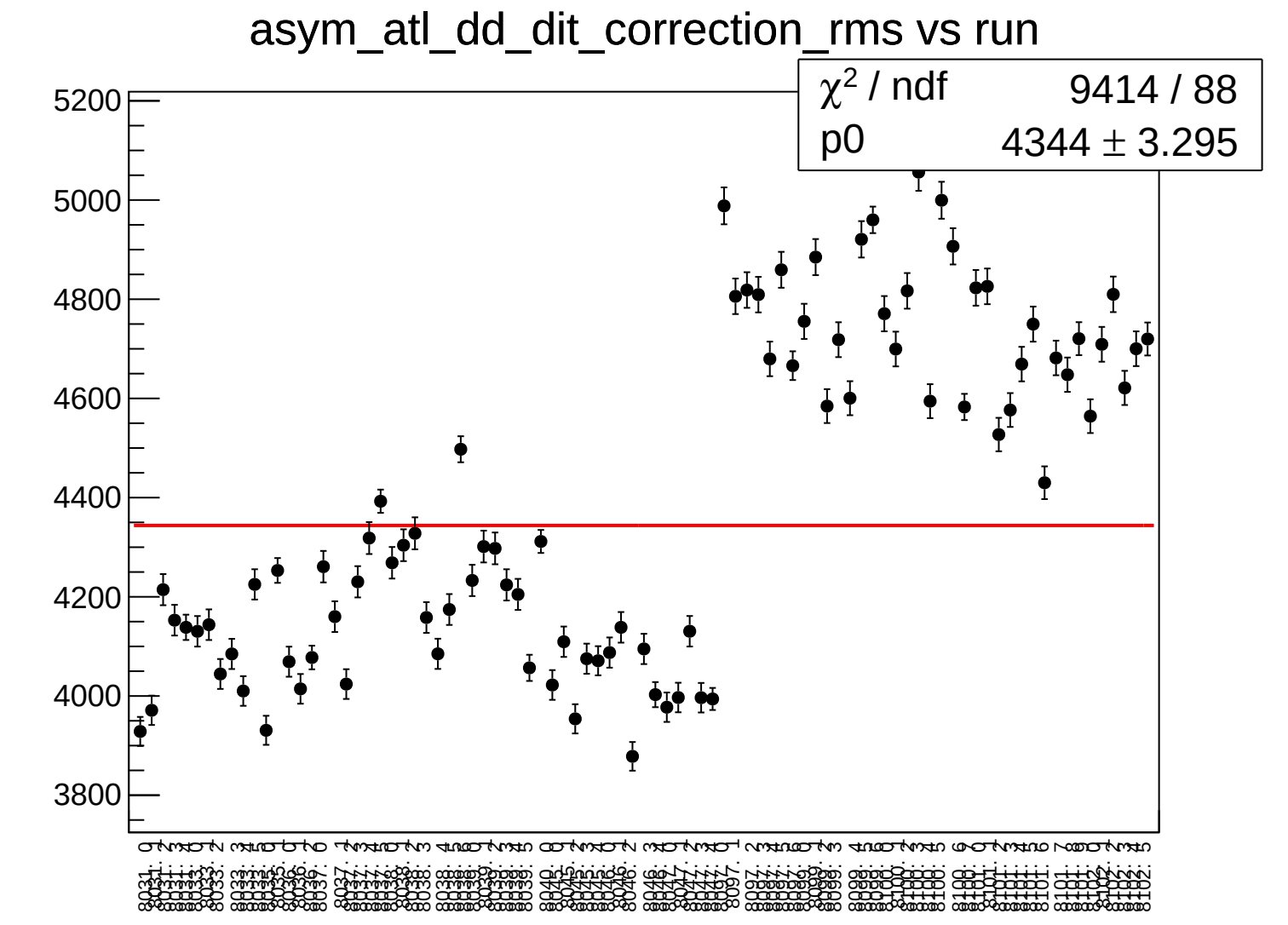

dit_asym_atl_dd_mean vs run
χ² / ndf 98.44 / 88
p0 1172 ± 1714
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −32.61
Std Dev 0
3
2
1
0
−1
−2

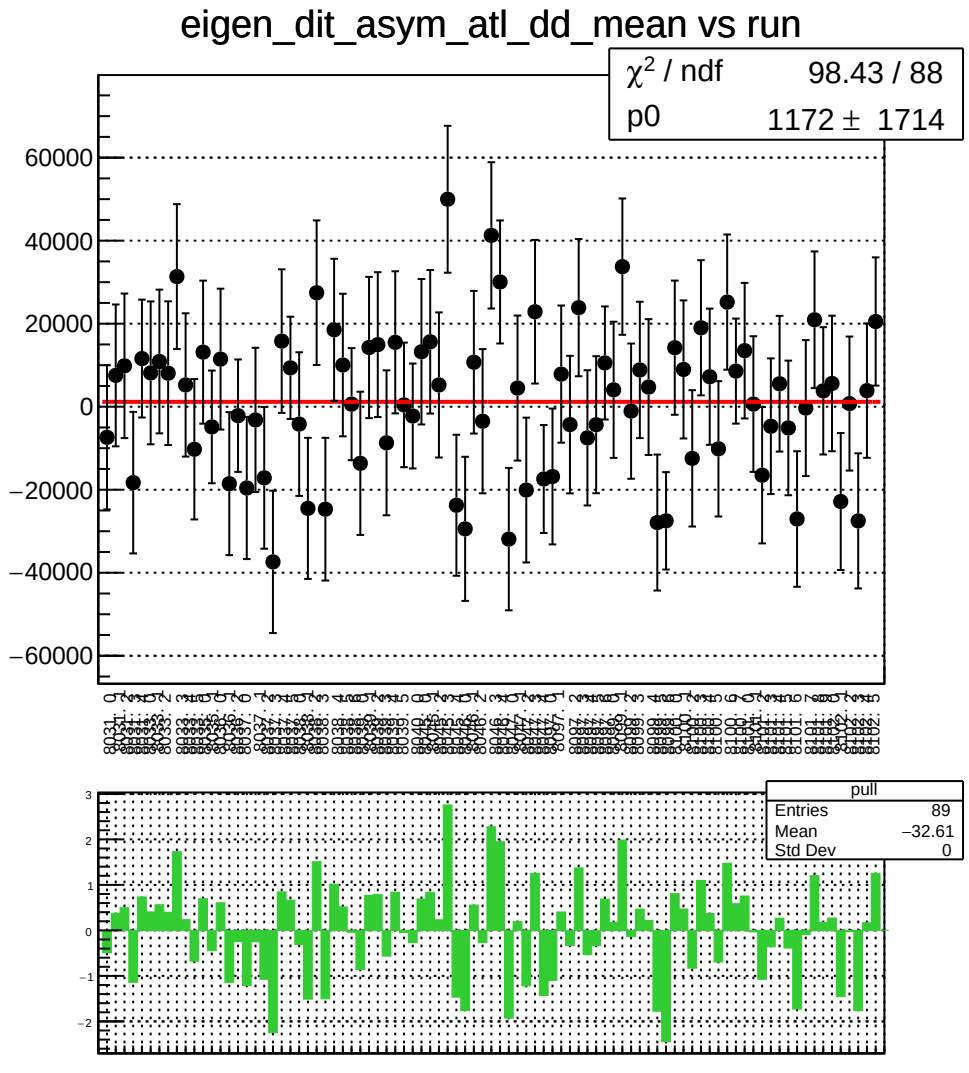

pull1D
Entries 89
Mean 0.01035
Std Dev 1.052
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

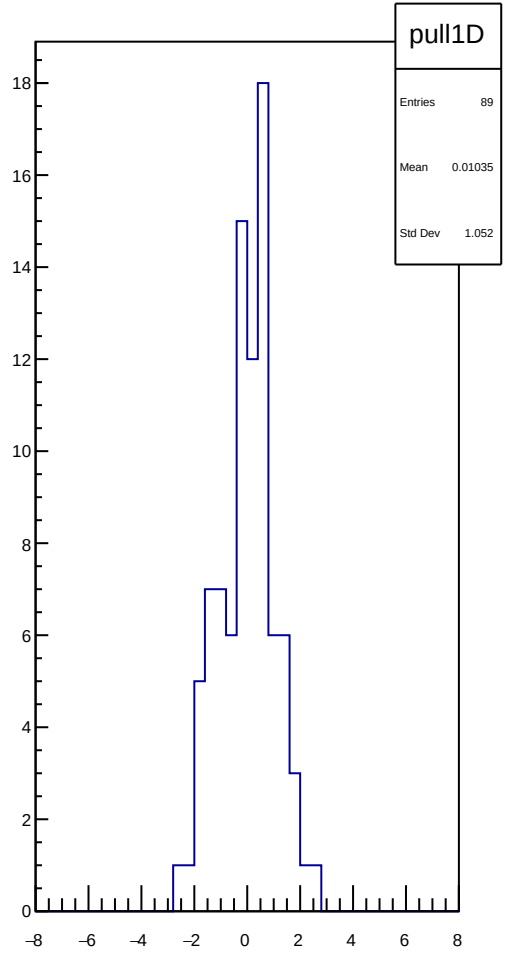

dit_asym_atl_dd_rms vs run
χ² / ndf 1446 / 88
p0 1601 ± 1.212
1700
1680
1660
1640
1620
1600
1580
1560
1540
1520

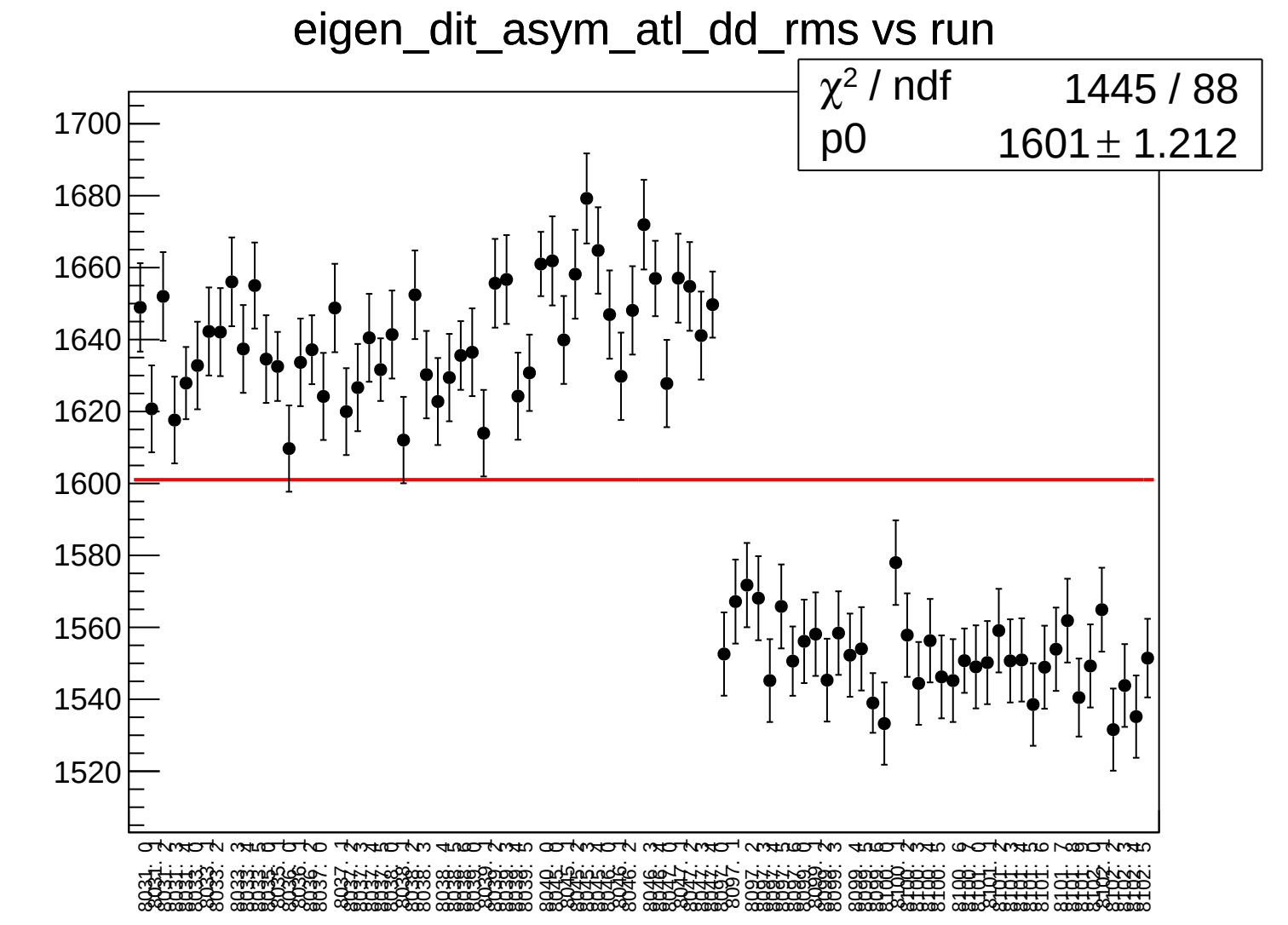

asym_atl_dd_dit_correction_mean vs run
×10^3
χ² / ndf 100.7 / 88
p0 −1354 ± 4660
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean −1339
Std Dev 0
2
1
0
−1
−2
−3

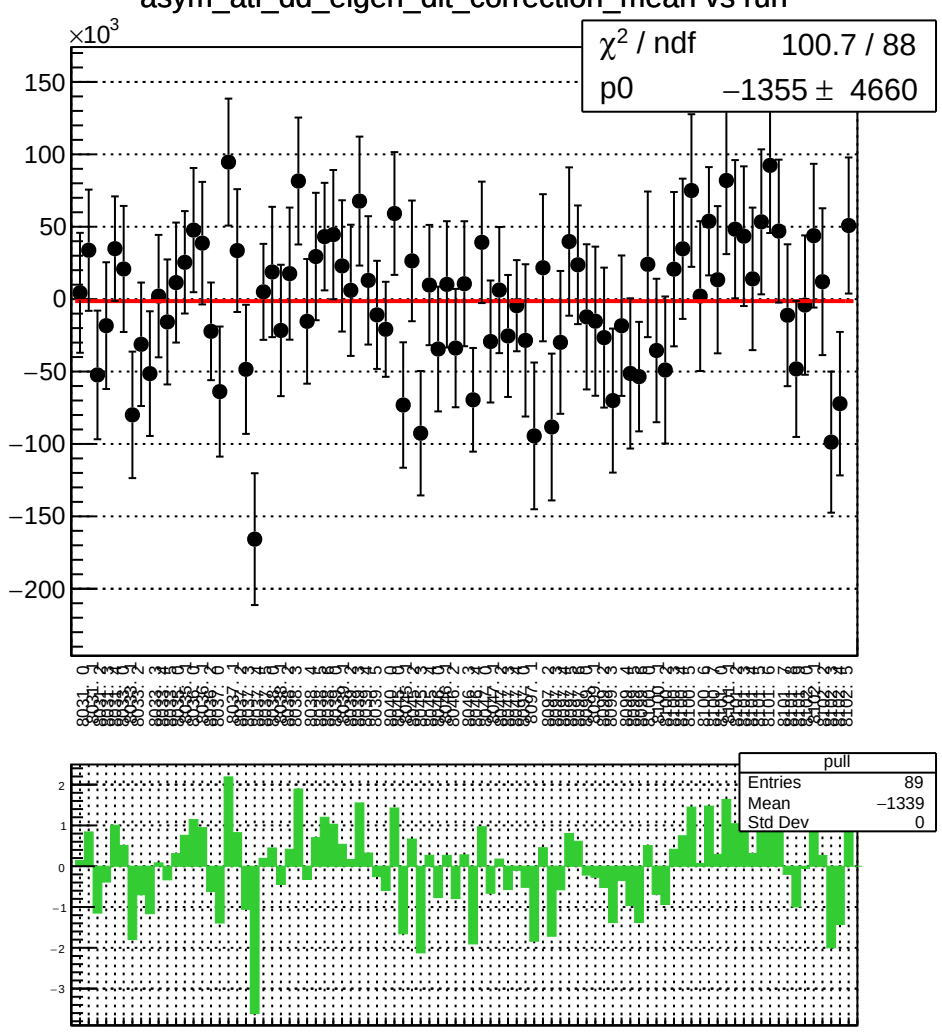

pull1D
Entries 89
Mean −0.001099
Std Dev 1.064
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

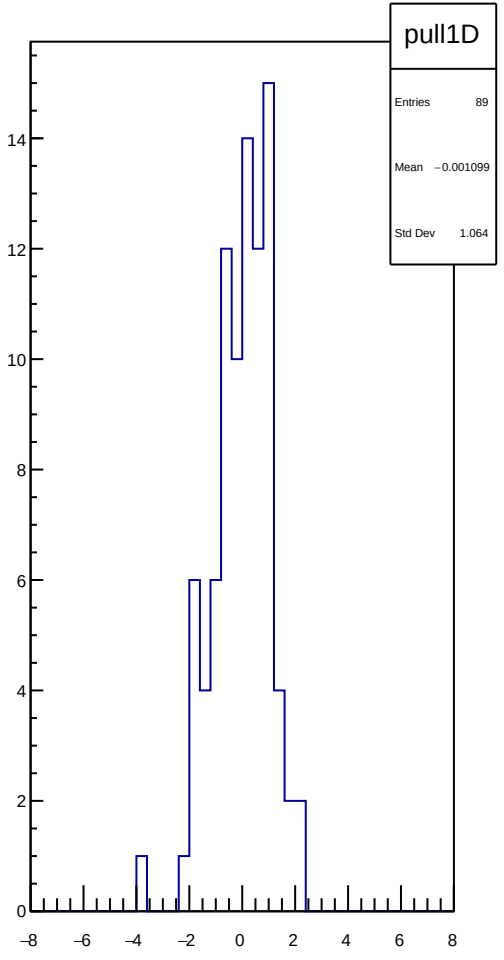

asym_atl_dd_dit_correction_rms vs run
χ² / ndf 9414 / 88
p0 4344 ± 3.295
5200
5000
4800
4600
4400
4200
4000
3800

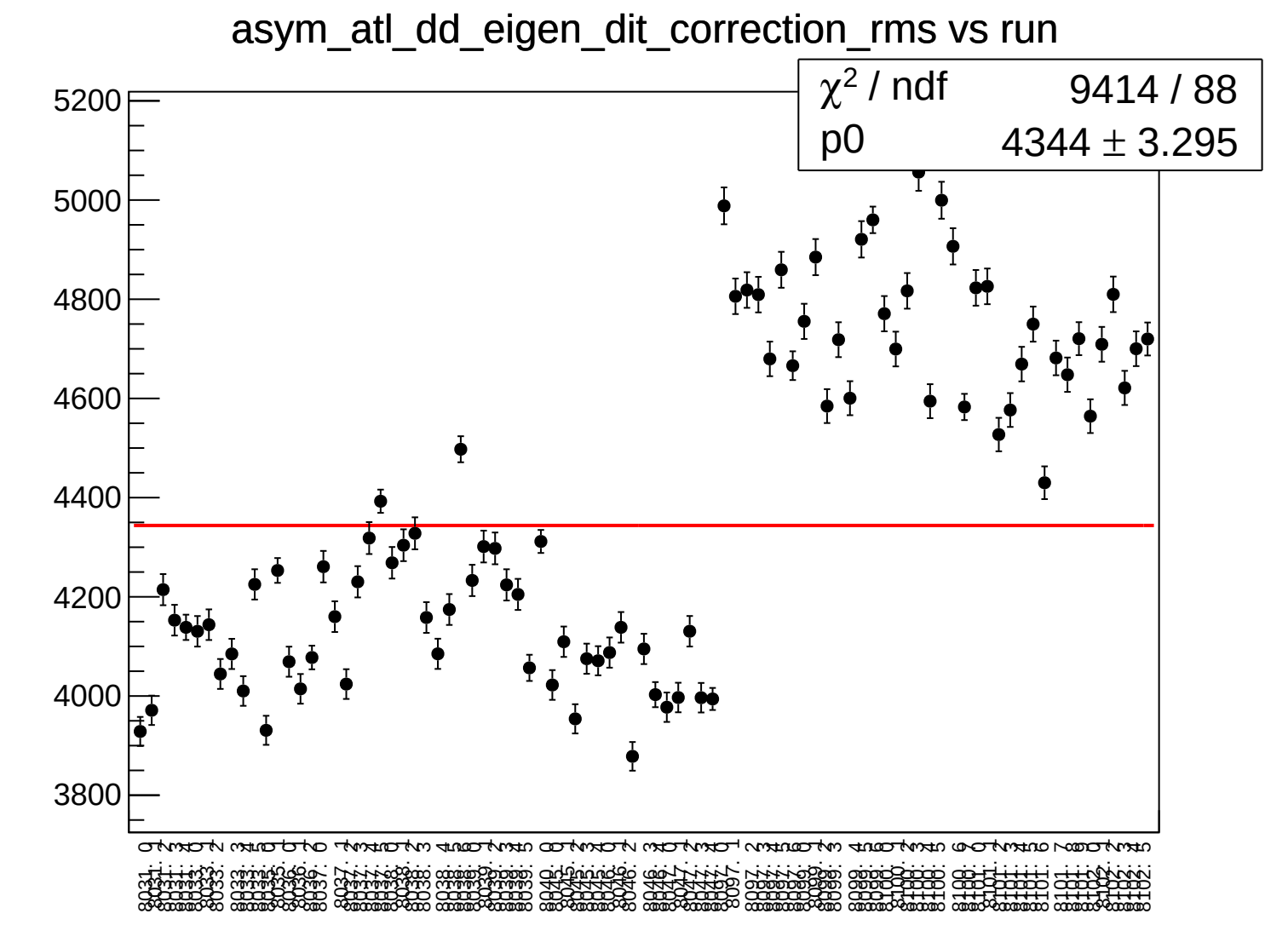

eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 98.43 / 88
p0 1172 ± 1714
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −32.61
Std Dev 0
3
2
1
0
−1
−2

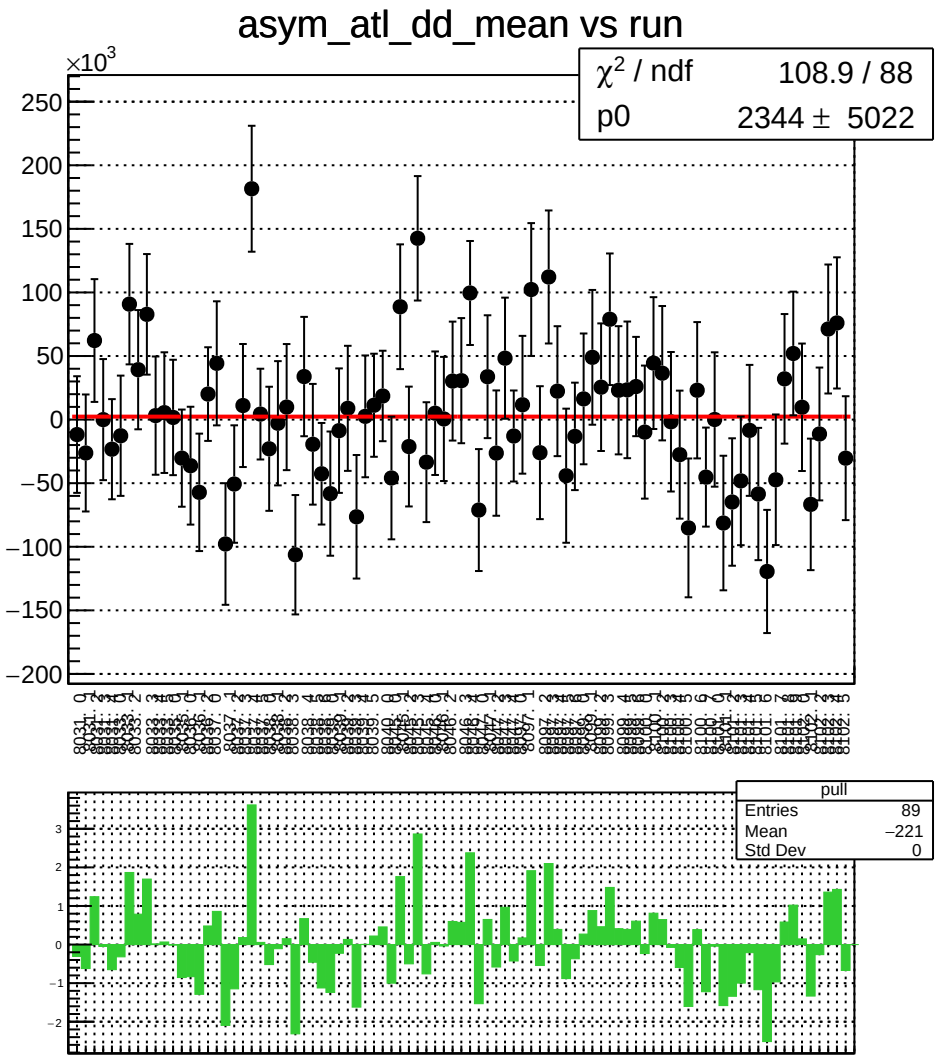

pull1D
Entries 89
Mean 0.01035
Std Dev 1.052
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

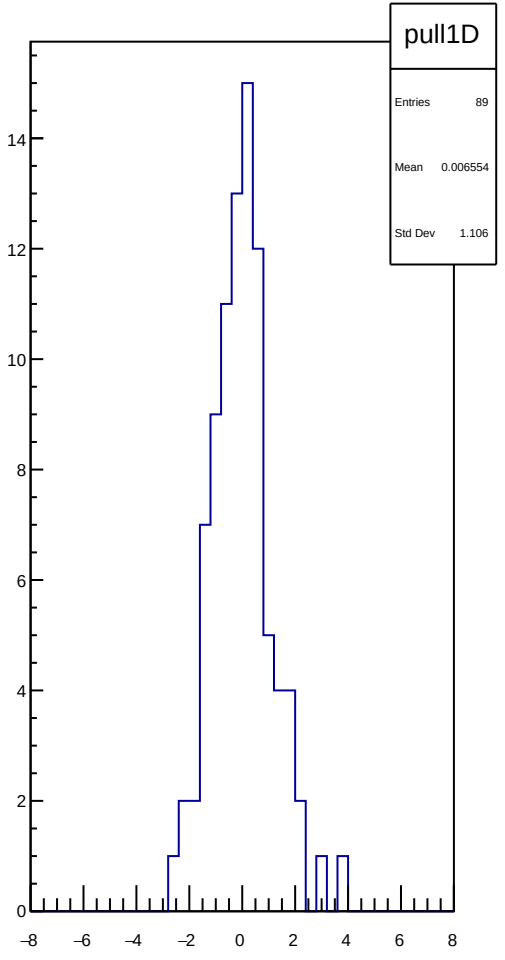

eigen_dit_asym_atl_dd_rms vs run
χ² / ndf 1445 / 88
p0 1601 ± 1.212
1700
1680
1660
1640
1620
1600
1580
1560
1540
1520

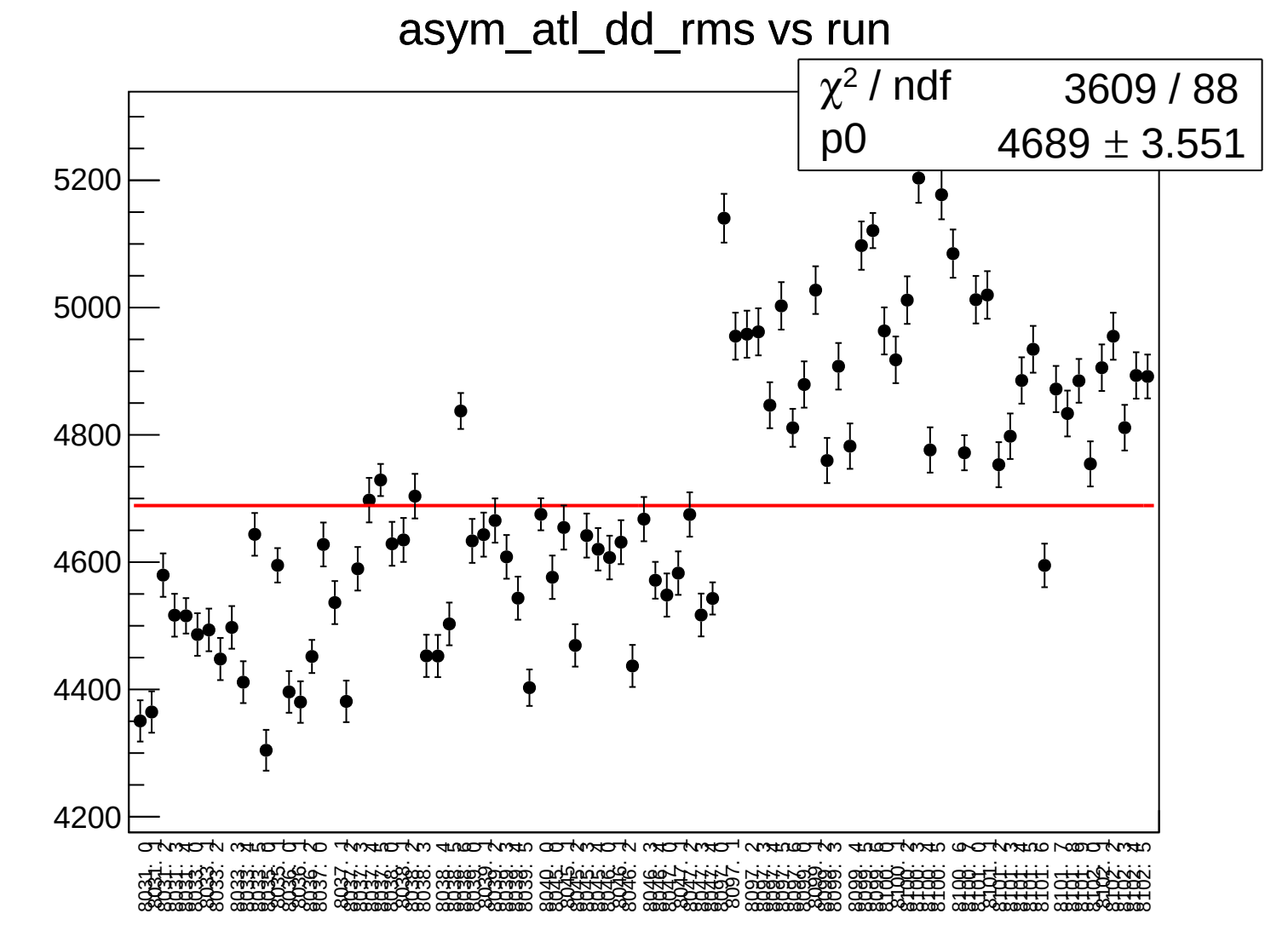

asym_atl_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 100.7 / 88
p0 −1355 ± 4660
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean −1339
Std Dev 0
2
1
0
−1
−2
−3

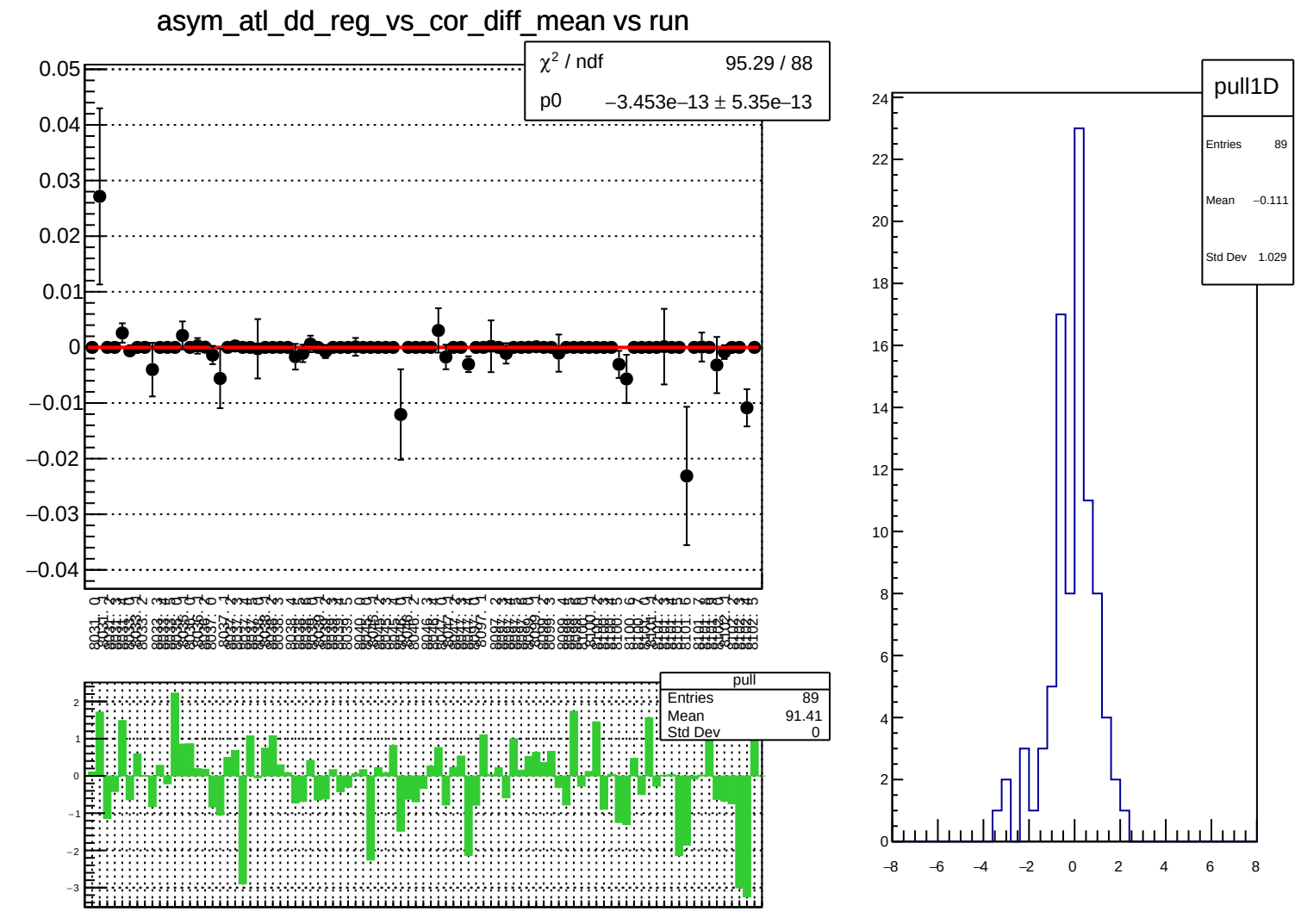

pull1D
Entries 89
Mean −0.001099
Std Dev 1.064
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

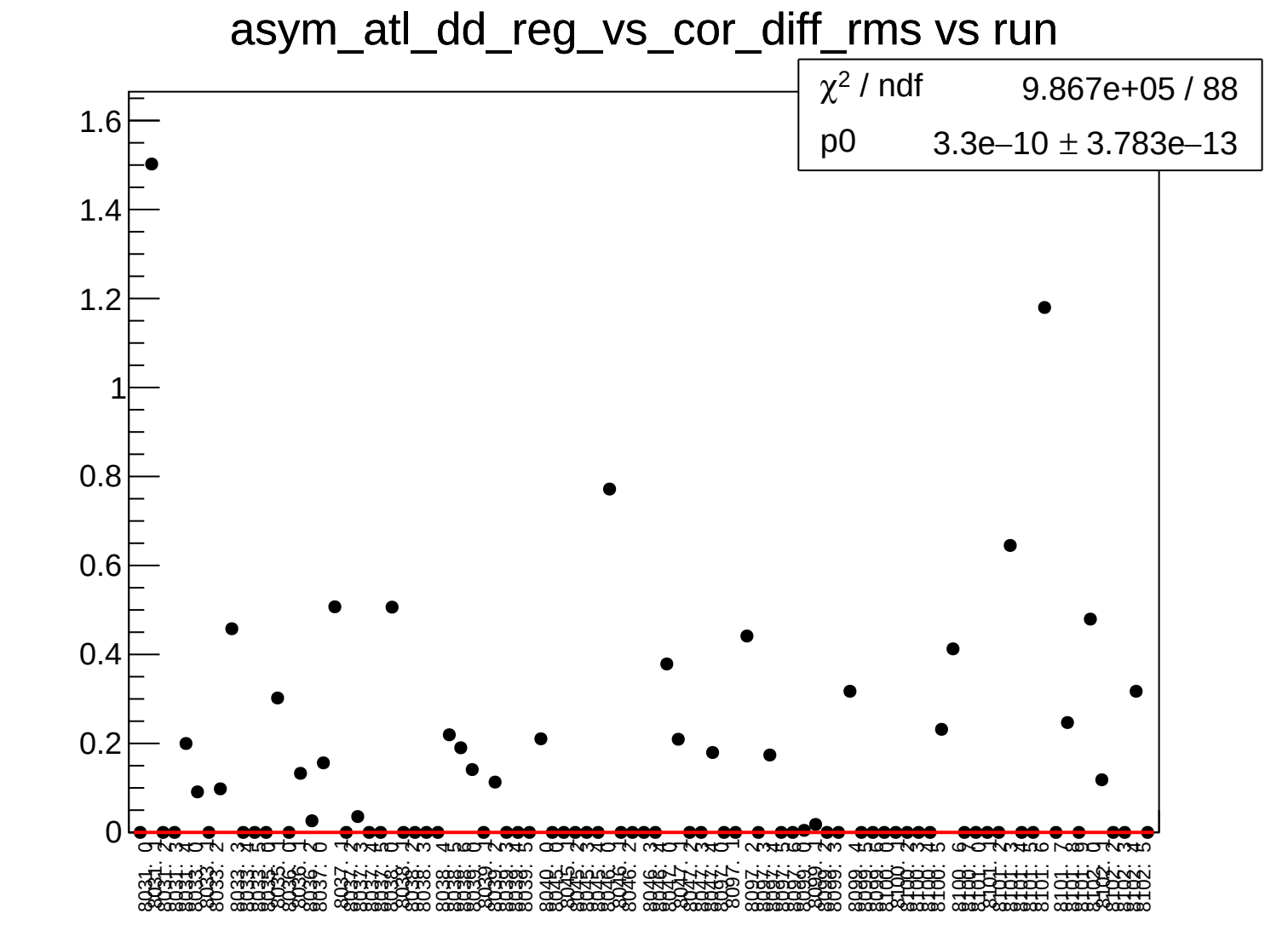

asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 9414 / 88
p0 4344 ± 3.295
5200
5000
4800
4600
4400
4200
4000
3800

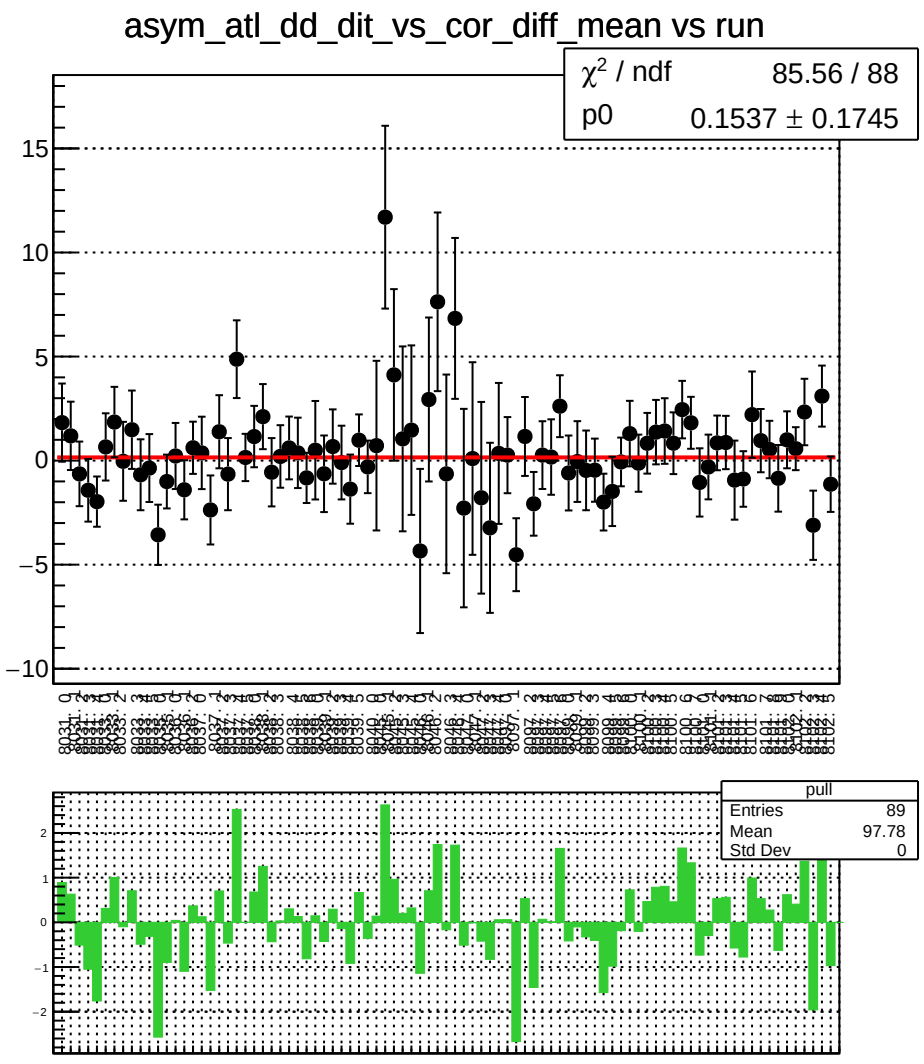

asym_atl_dd_mean vs run
χ² / ndf 108.9 / 88
p0 2344 ± 5022
×10³
pull
Entries 89
Mean −221
Std Dev 0

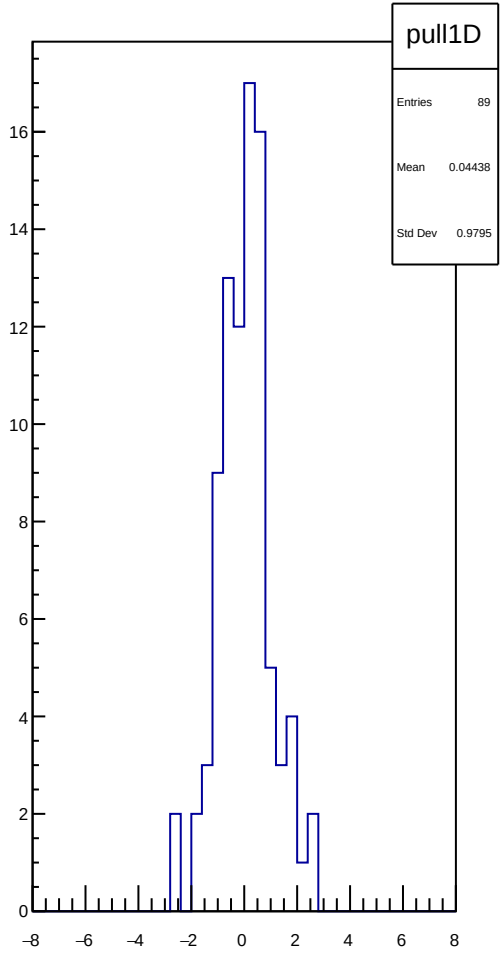

pull1D
Entries 89
Mean 0.006554
Std Dev 1.106

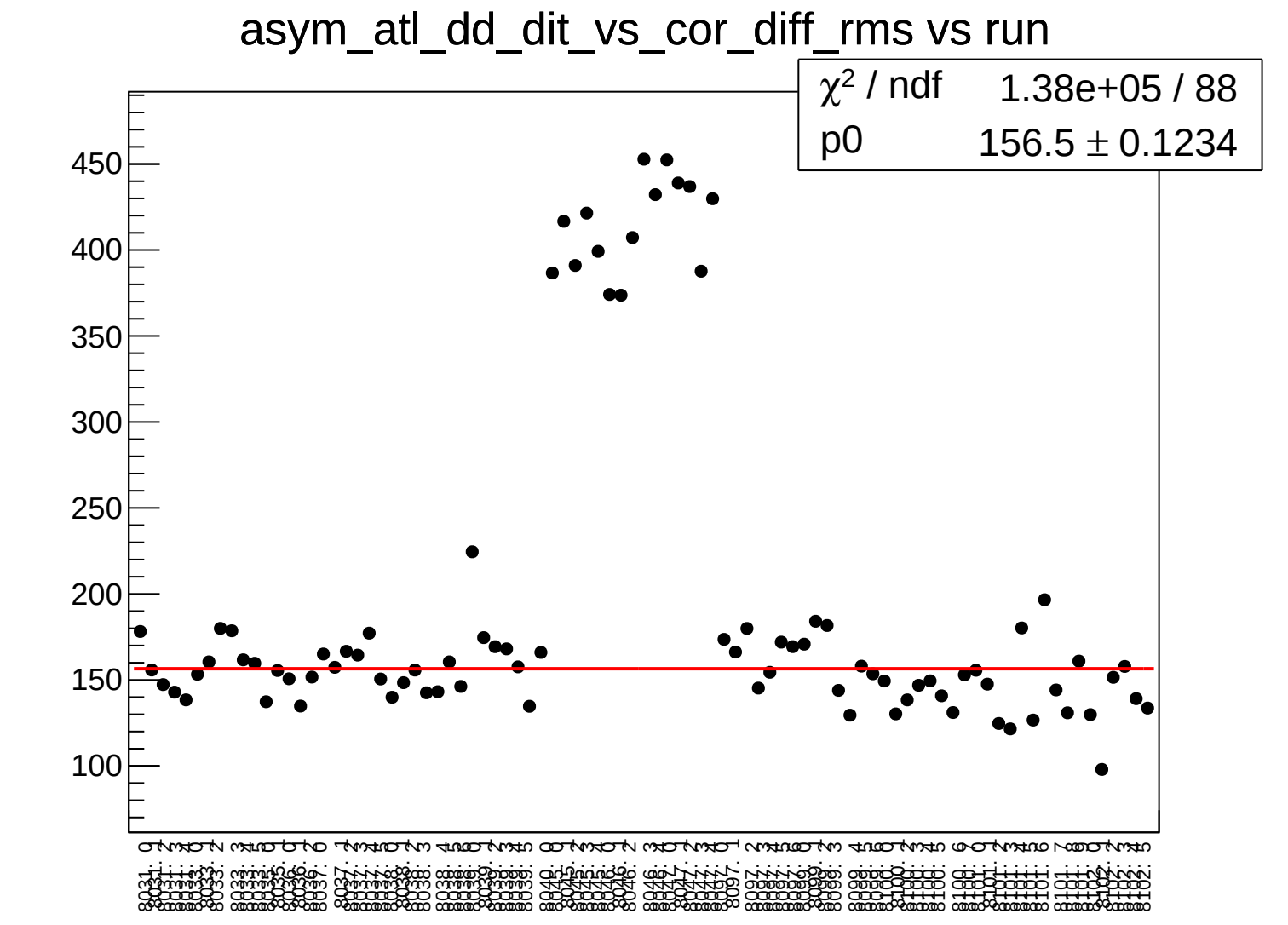

asym_atl_dd_rms vs run
χ² / ndf 3609 / 88
p0 4689 ± 3.551
5200
5000
4800
4600
4400
4200

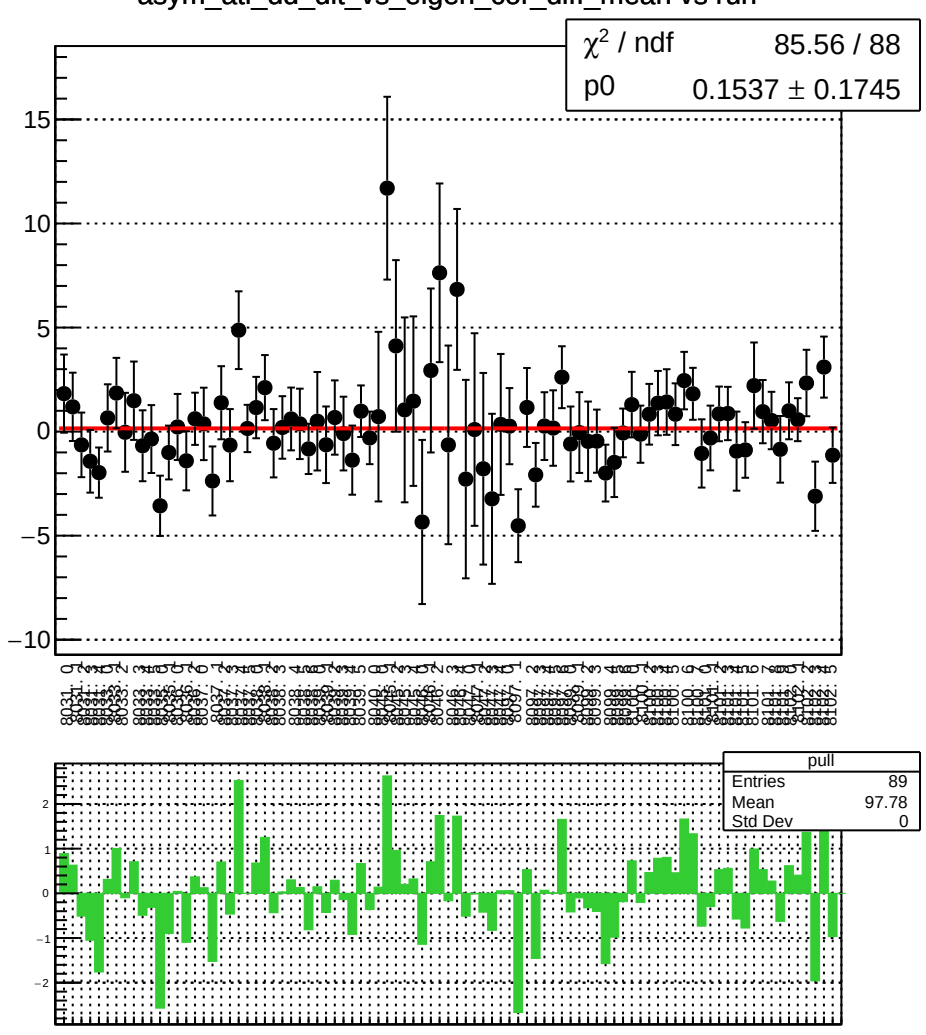

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 95.29 / 88
p0 −3.453e−13 ± 5.35e−13
pull
Entries 89
Mean 91.41
Std Dev 0
pull1D
Entries 89
Mean −0.111
Std Dev 1.029

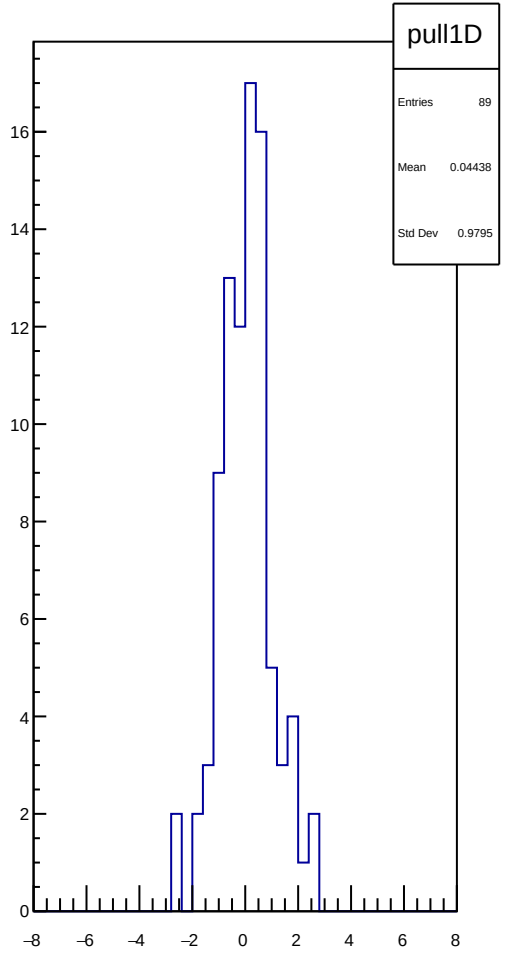

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.867e+05 / 88
p0 3.3e−10 ± 3.783e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

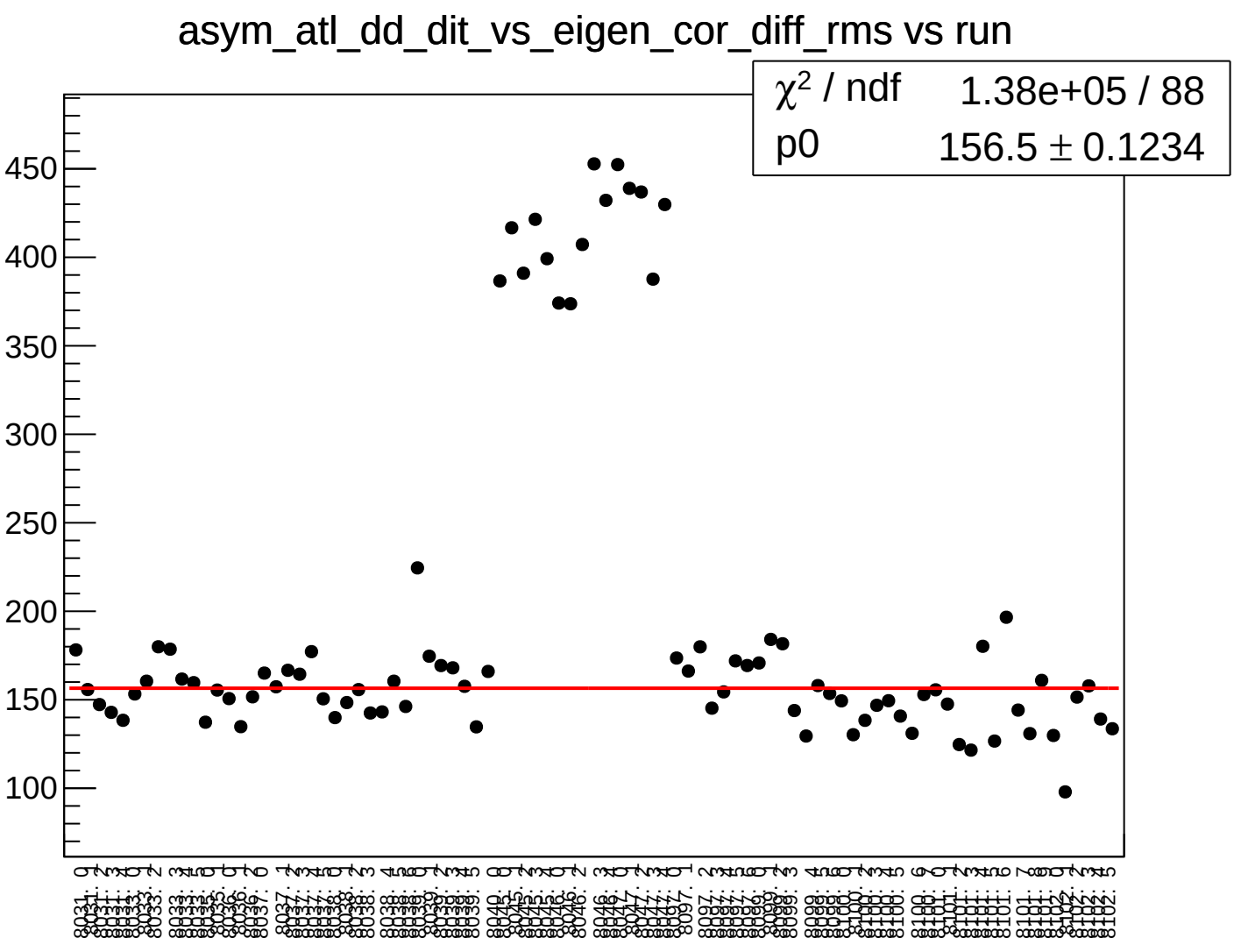

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 85.56 / 88
p0 0.1537 ± 0.1745
15
10
5
0
−5
−10
pull
Entries 89
Mean 97.78
Std Dev 0
2
1
0
−1
−2

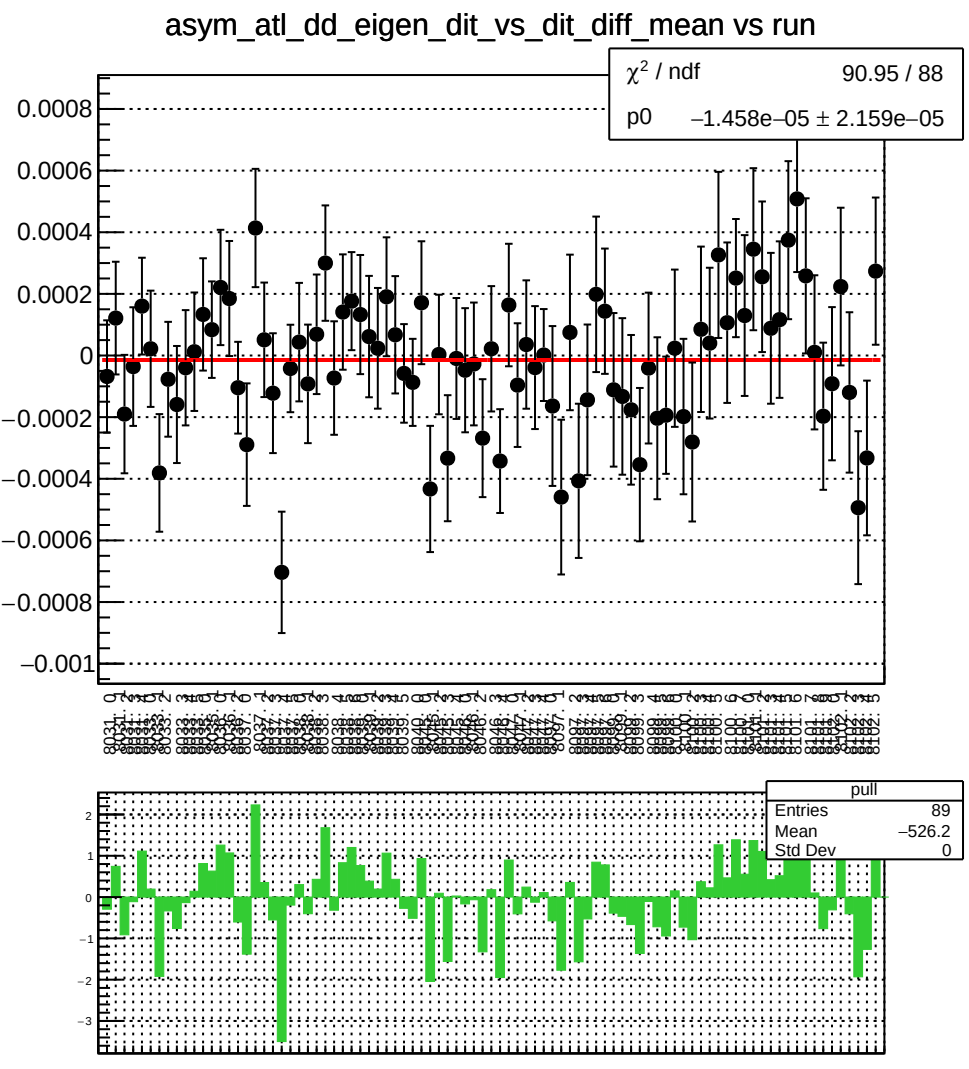

pull1D
Entries 89
Mean 0.04438
Std Dev 0.9795
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

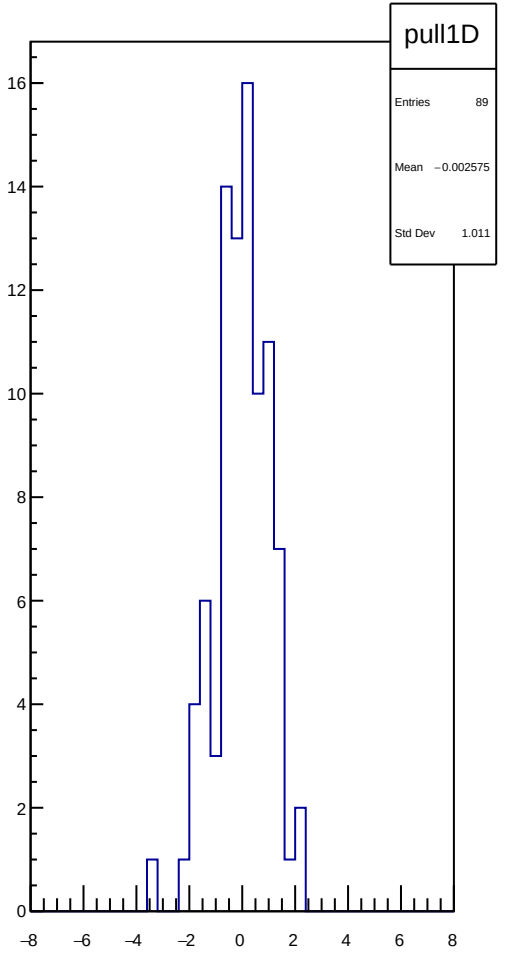

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.38e+05 / 88
p0 156.5 ± 0.1234
450
400
350
300
250
200
150
100

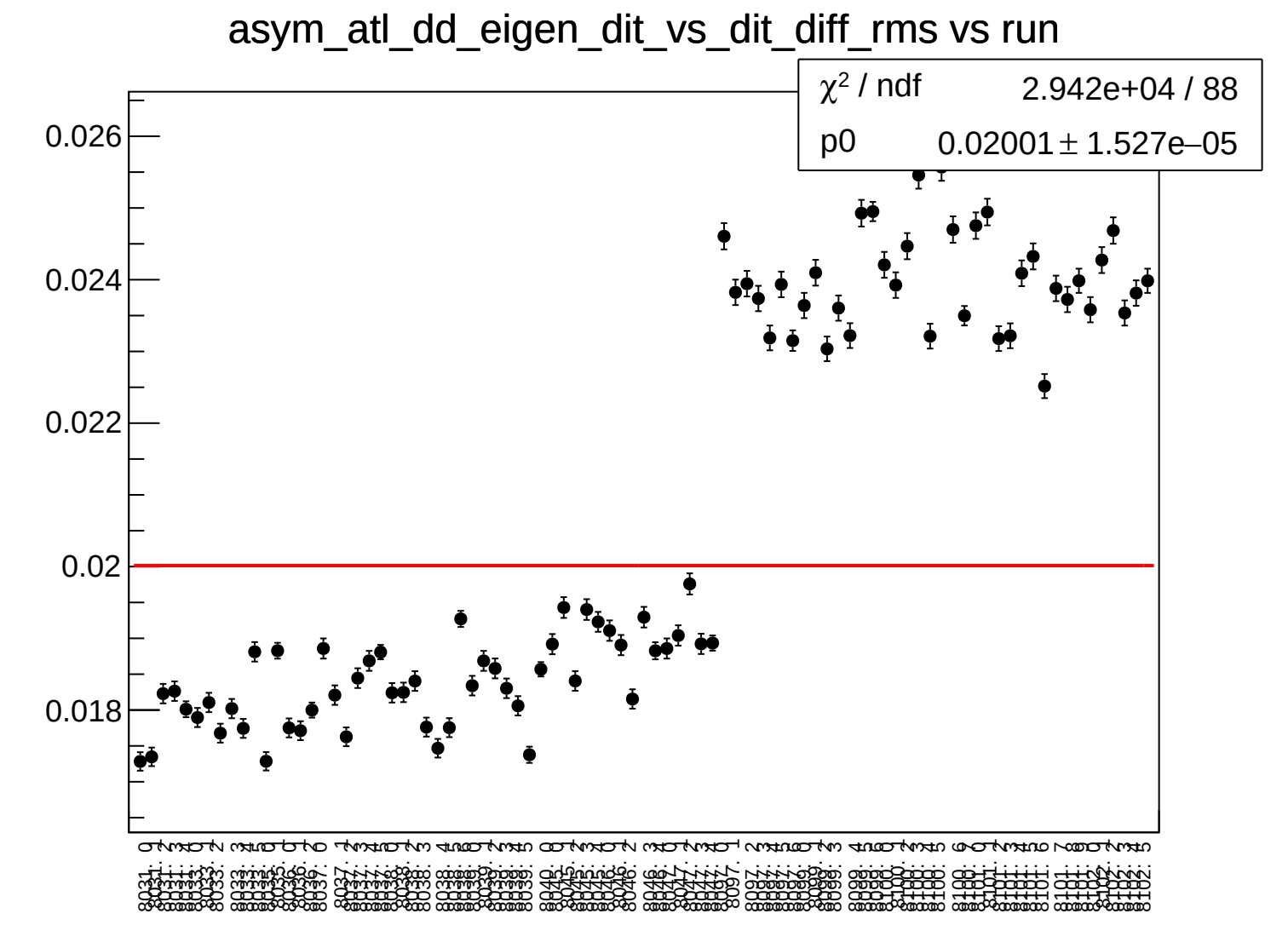

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.56 / 88
p0 0.1537 ± 0.1745
15
10
5
0
−5
−10
pull
Entries 89
Mean 97.78
Std Dev 0
2
1
0
−1
−2

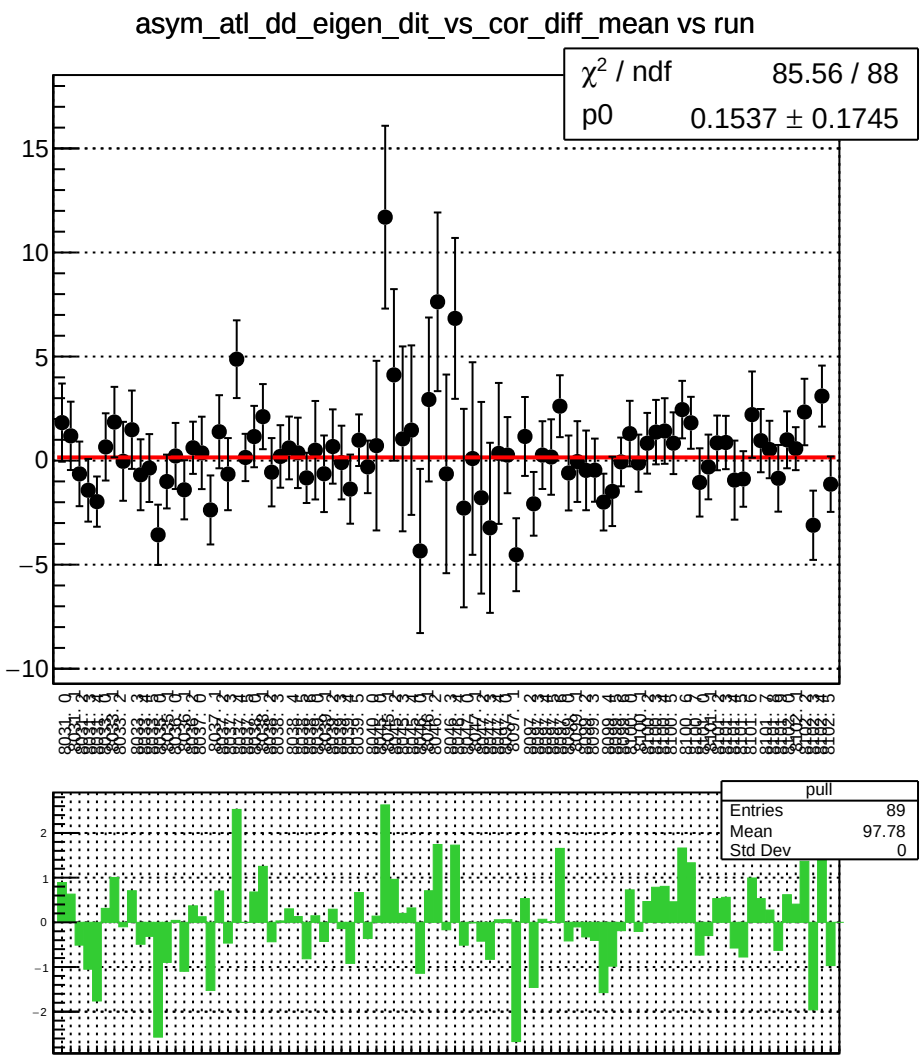

pull1D
Entries 89
Mean 0.04438
Std Dev 0.9795
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

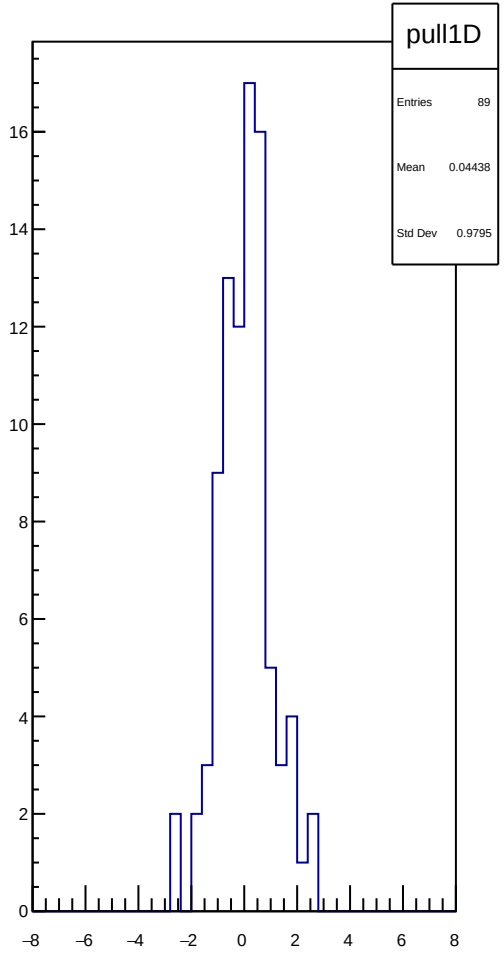

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.38e+05 / 88
p0 156.5 ± 0.1234
450
400
350
300
250
200
150
100

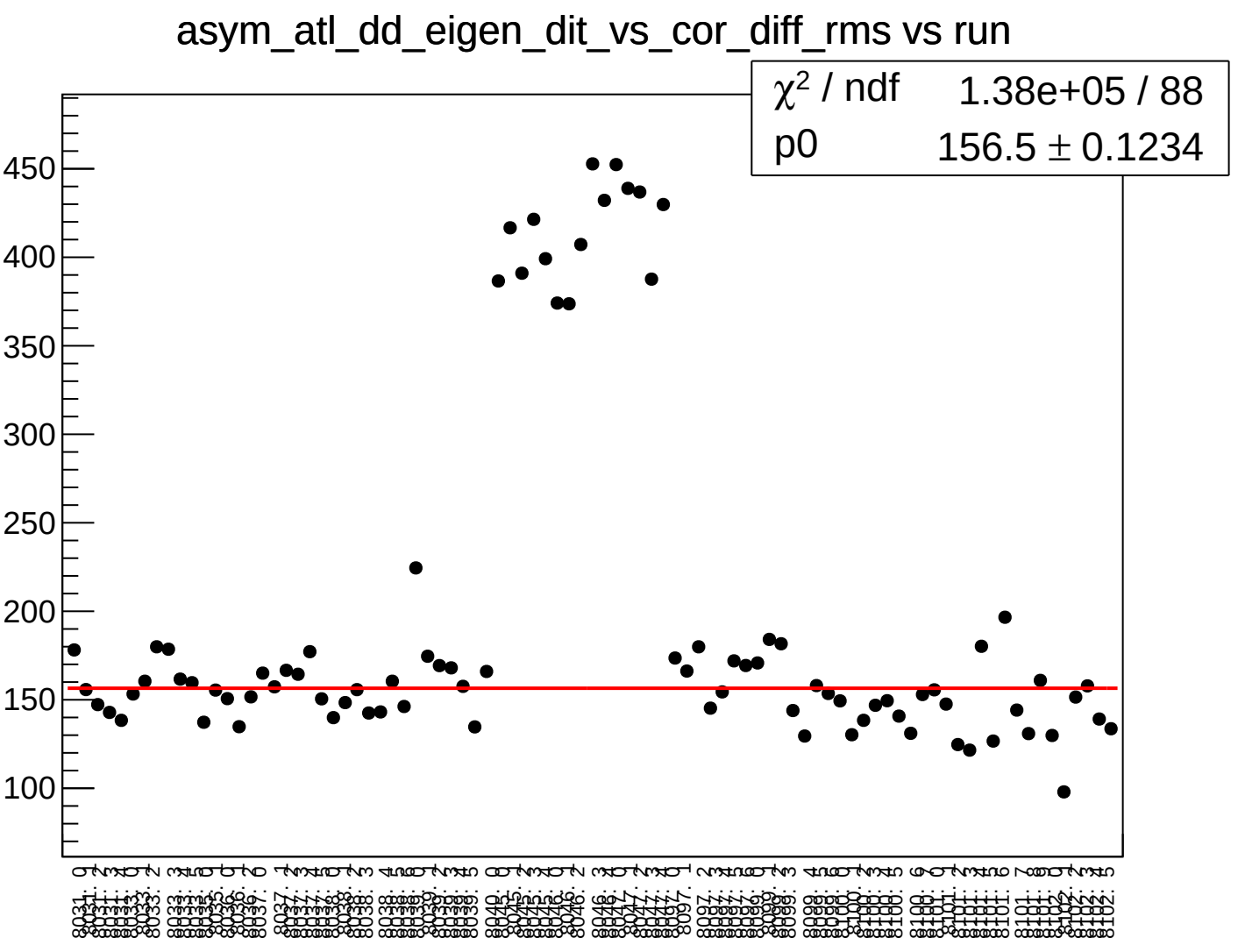

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 90.95 / 88
p0 −1.458e−05 ± 2.159e−05
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 89
Mean −526.2
Std Dev 0
2
1
0
−1
−2
−3

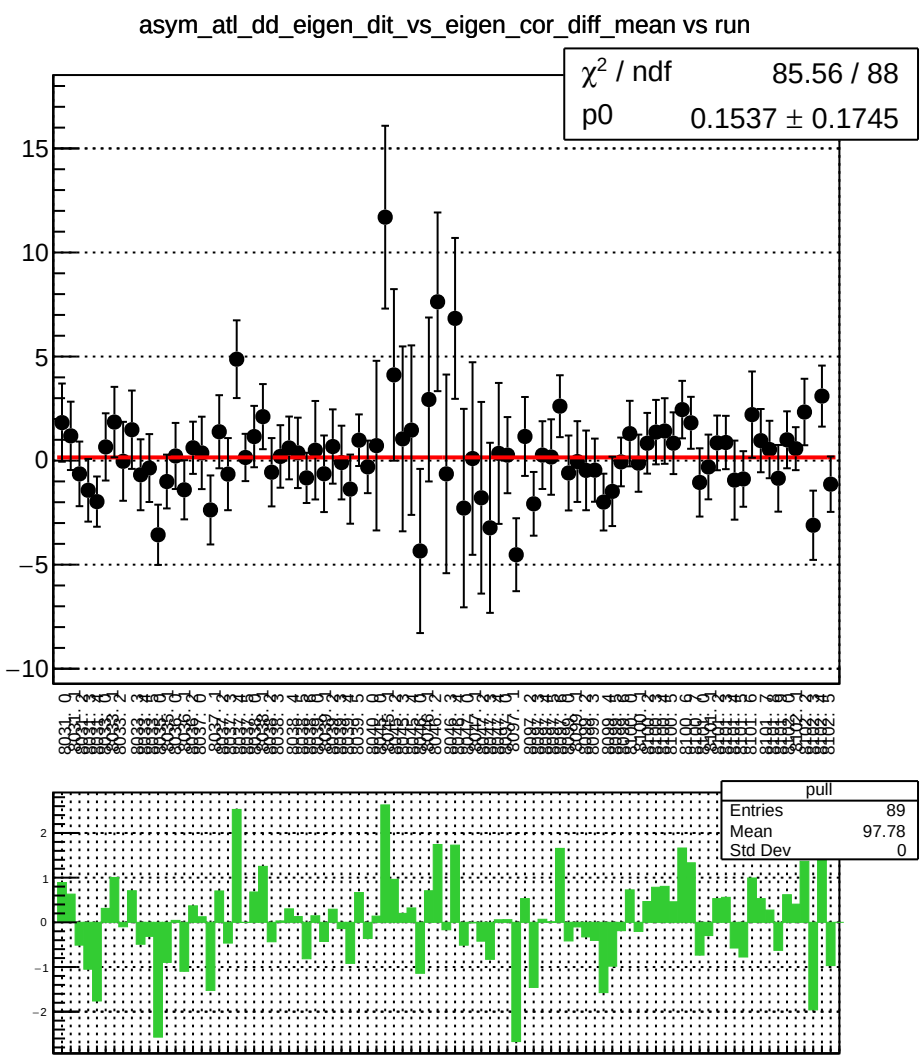

pull1D
Entries 89
Mean −0.002575
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

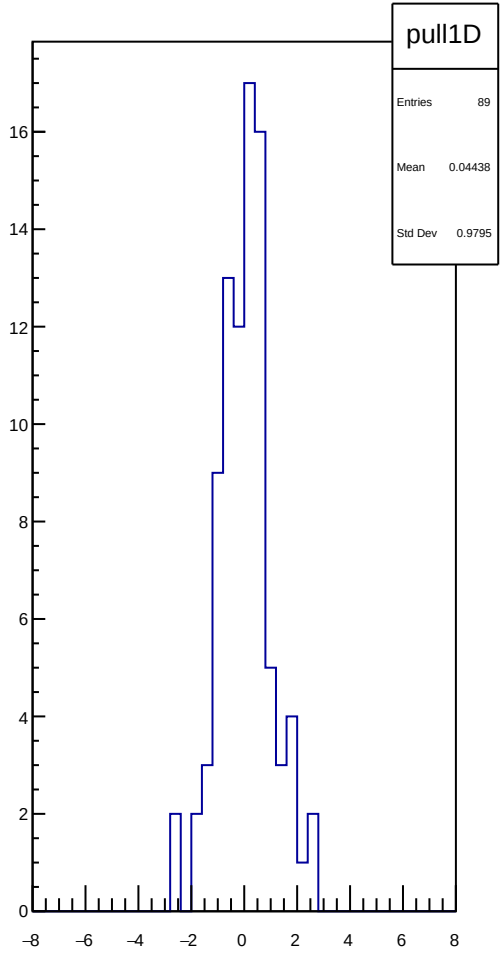

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.942e+04 / 88
p0 0.02001 ± 1.527e−05
0.026
0.024
0.022
0.02
0.018

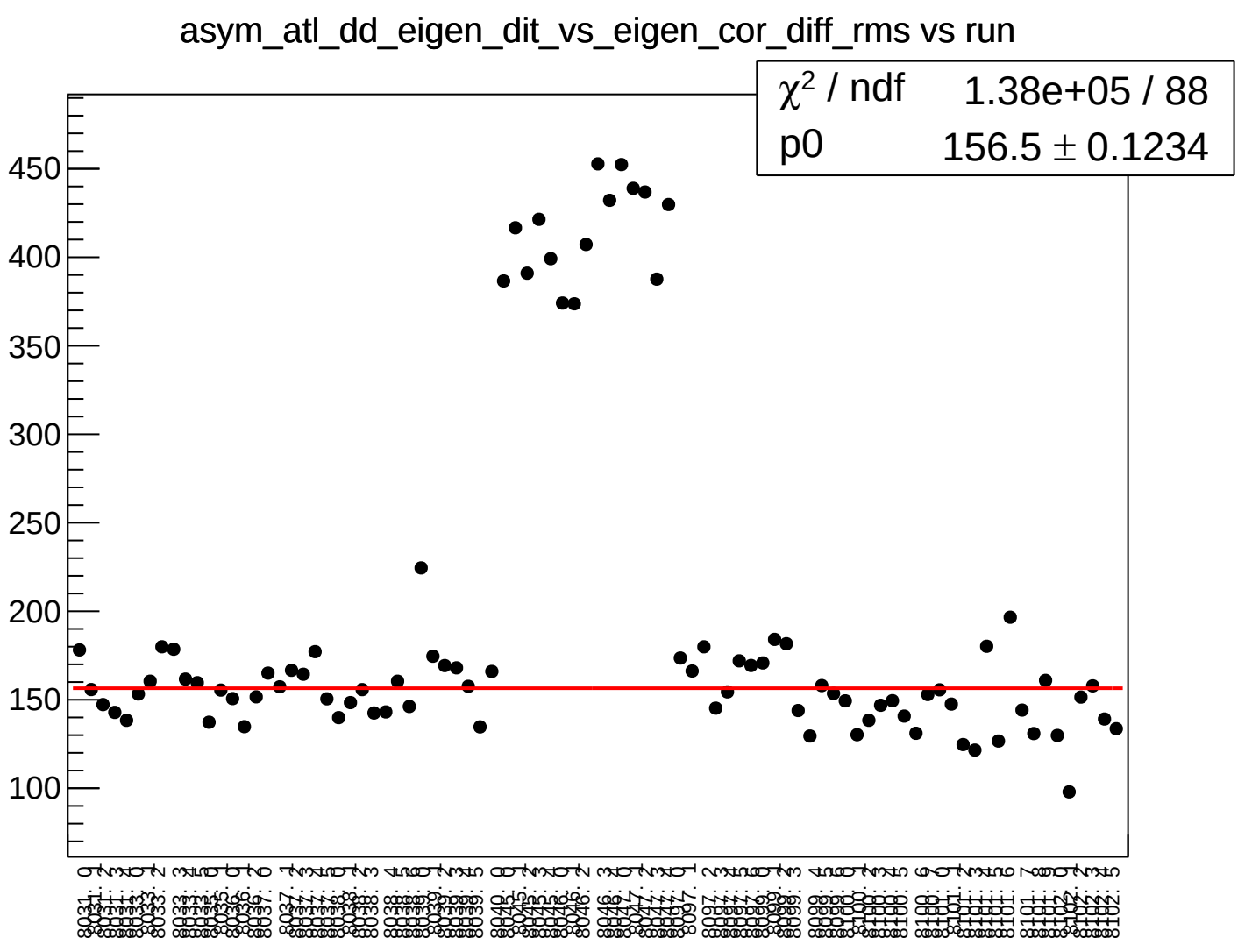

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.56 / 88
p0 0.1537 ± 0.1745
15
10
5
0
−5
−10
pull
Entries 89
Mean 97.78
Std Dev 0
2
1
0
−1
−2

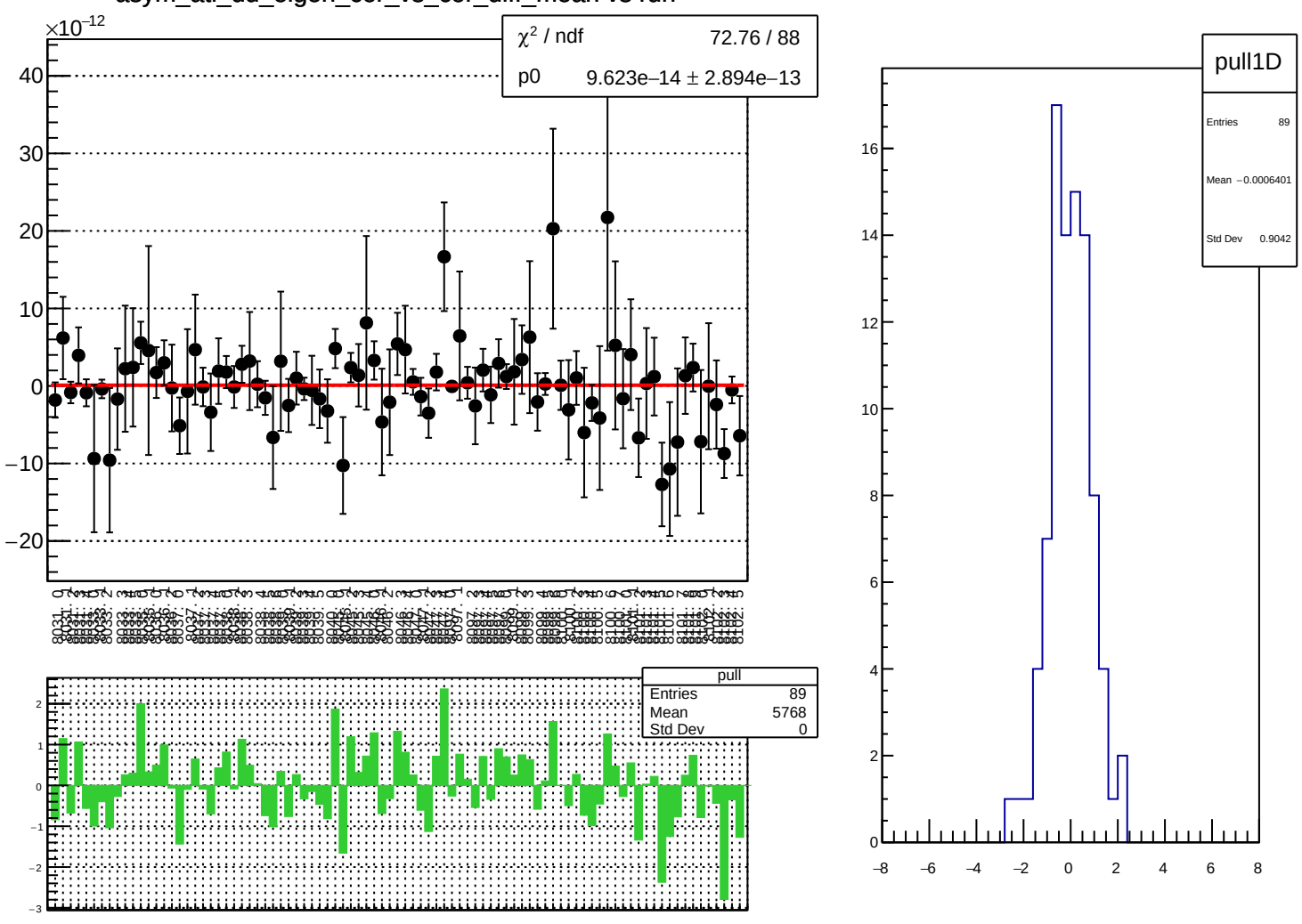

pull1D
Entries 89
Mean 0.04438
Std Dev 0.9795
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

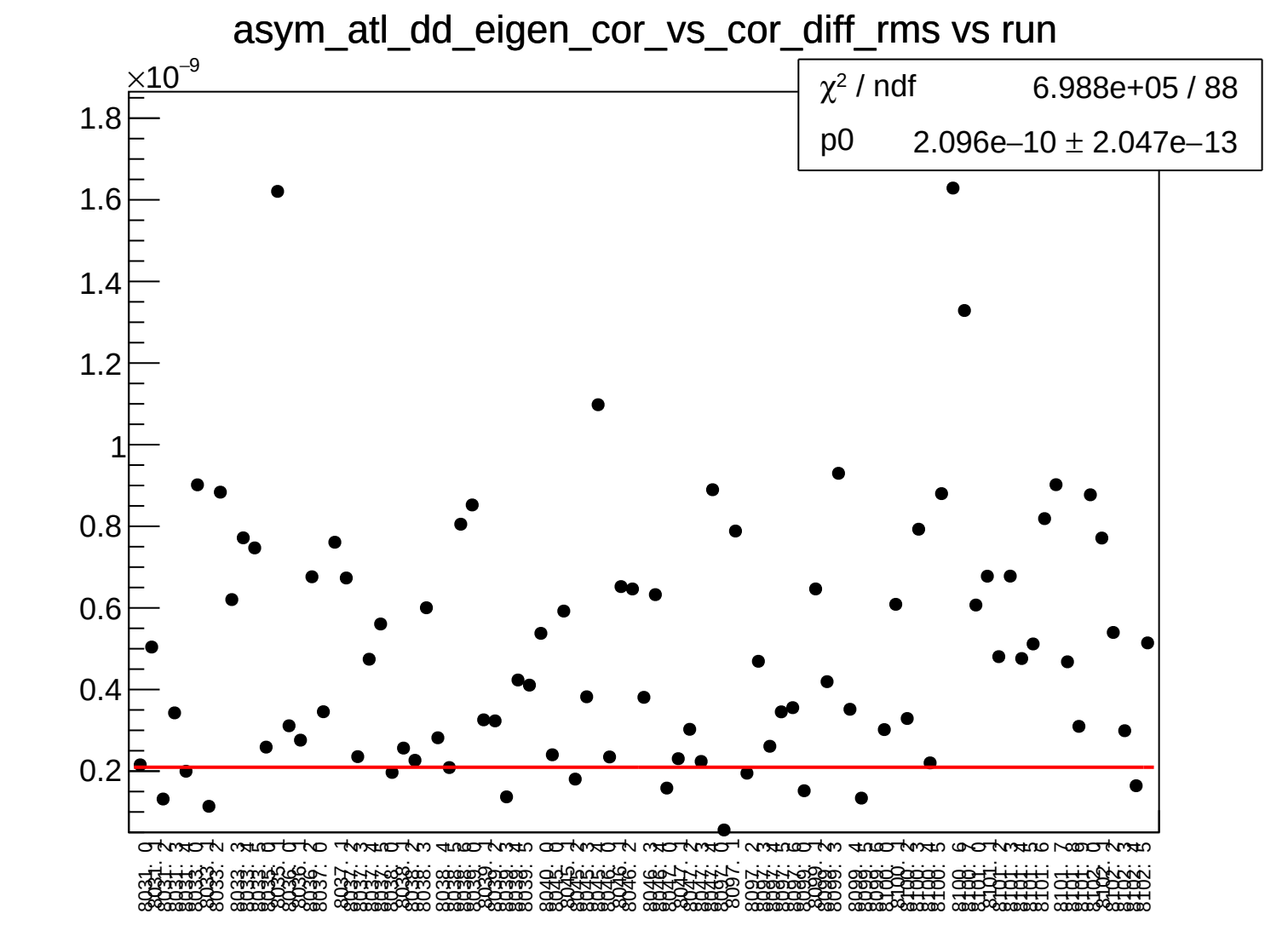

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 1.38e+05 / 88
p0 156.5 ± 0.1234
450
400
350
300
250
200
150
100

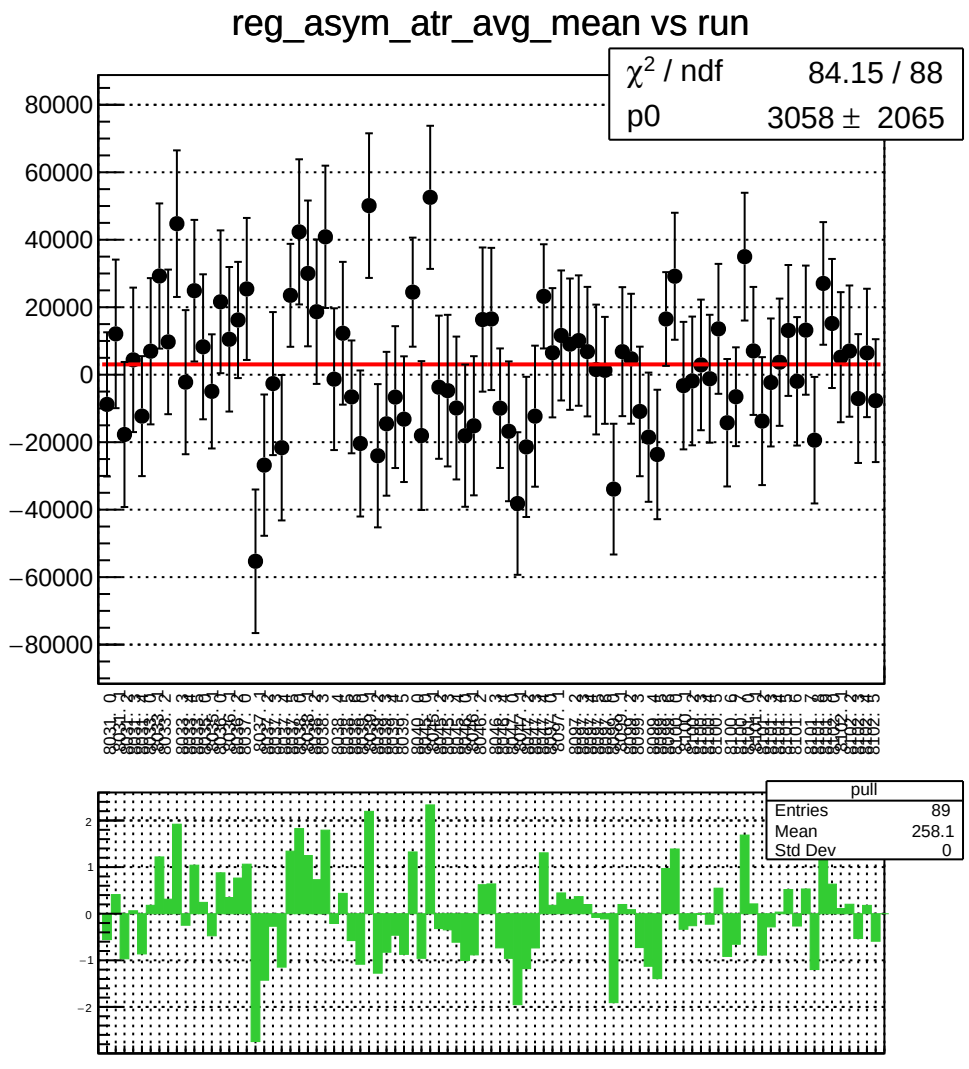

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.56 / 88
p0 0.1537 ± 0.1745
15
10
5
0
−5
−10
pull
Entries 89
Mean 97.78
Std Dev 0
2
1
0
−1
−2

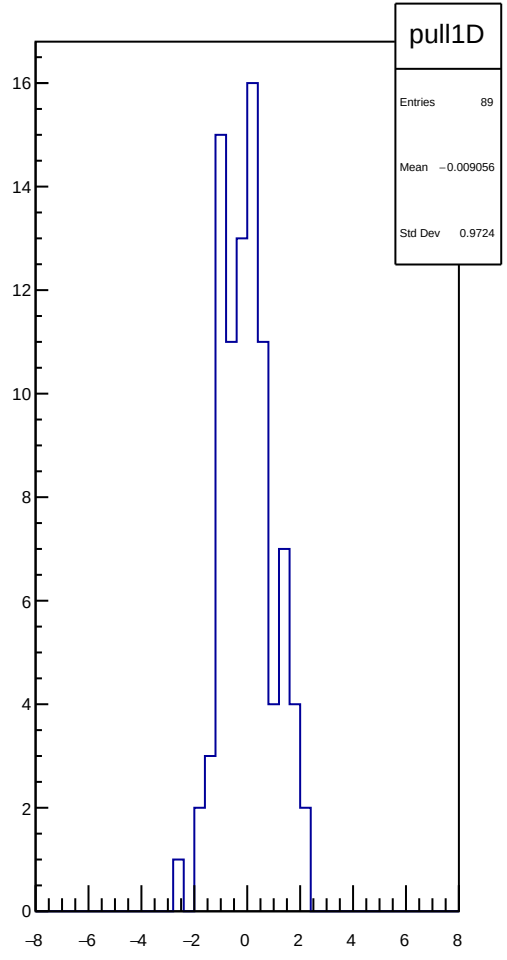

pull1D
Entries 89
Mean 0.04438
Std Dev 0.9795
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

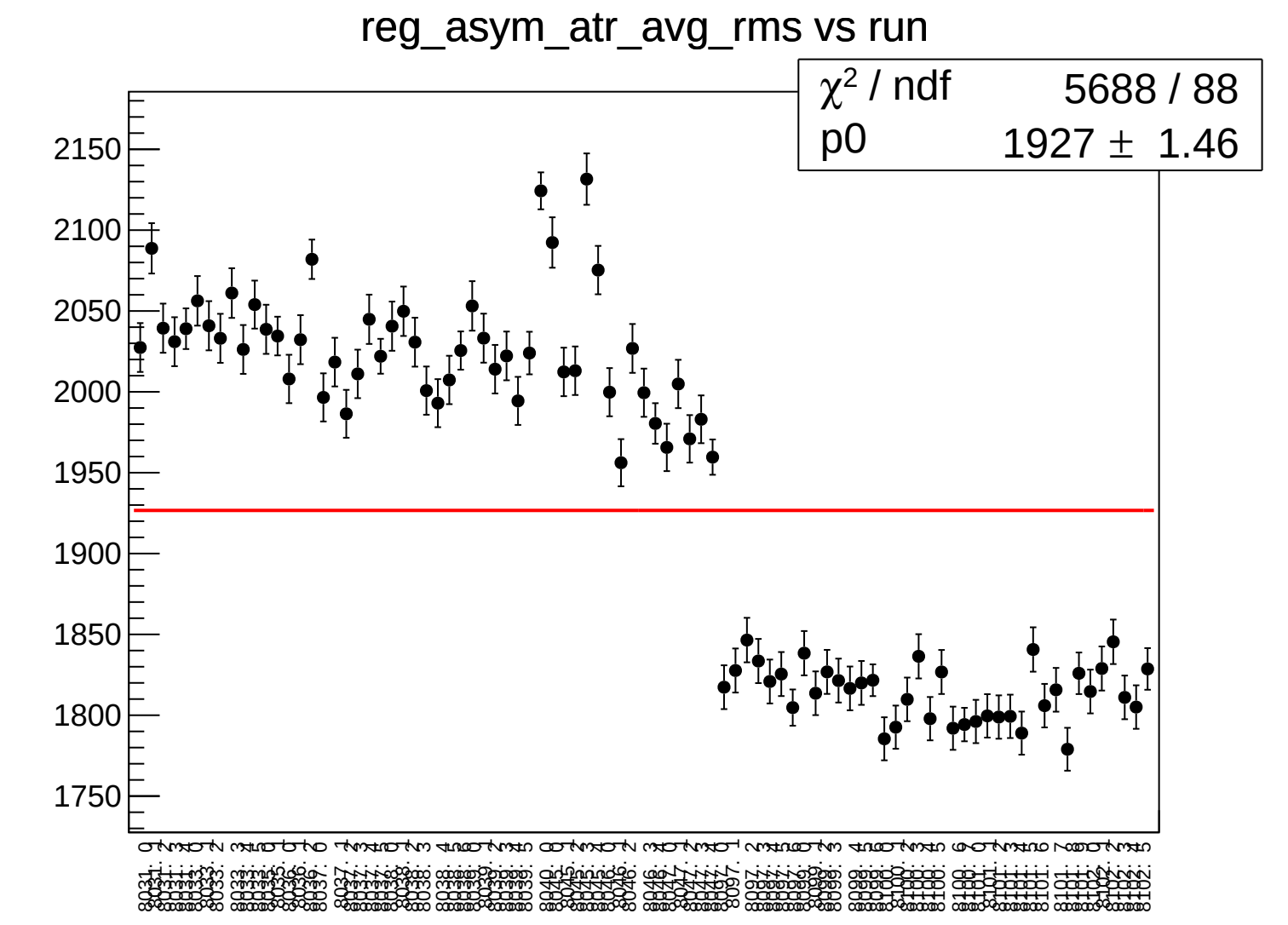

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.38e+05 / 88
p0 156.5 ± 0.1234
450
400
350
300
250
200
150
100

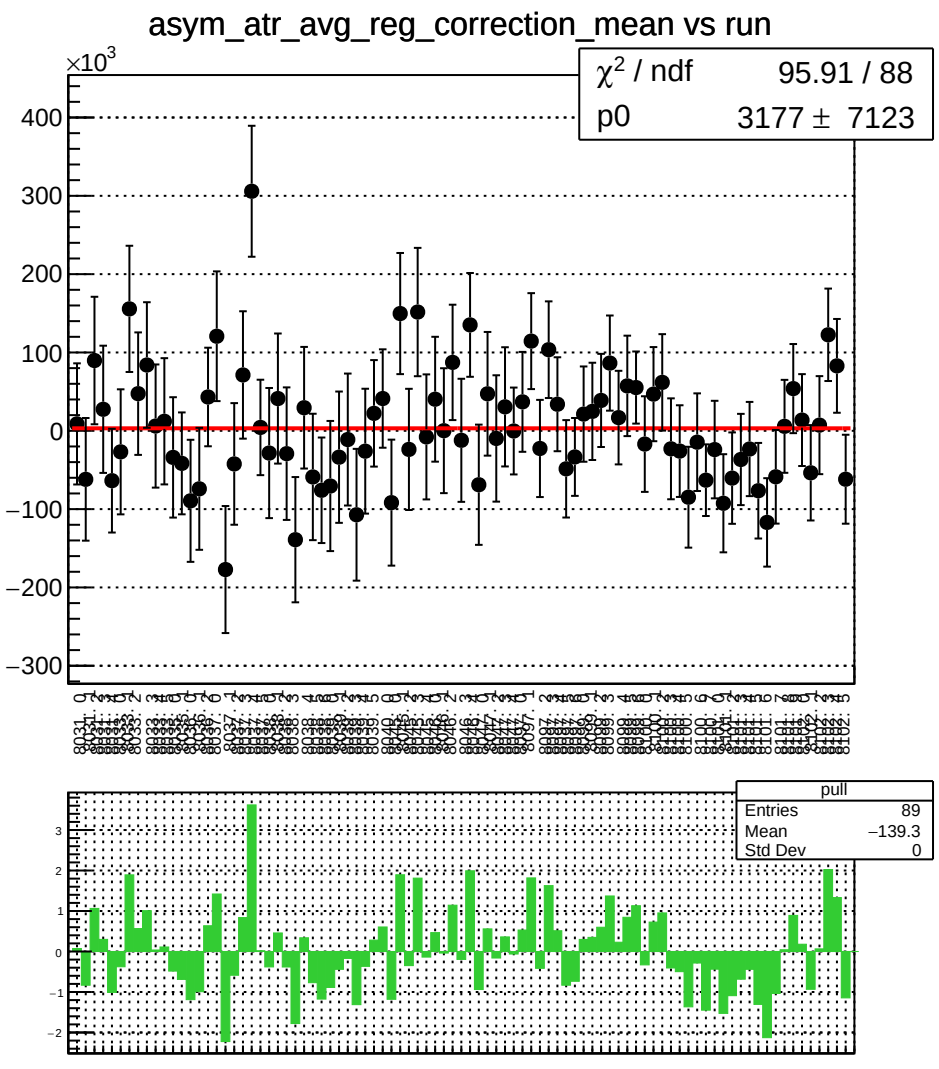

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.76 / 88
p0 9.623e−14 ± 2.894e−13
pull
Entries 89
Mean 5768
Std Dev 0
pull1D
Entries 89
Mean −0.0006401
Std Dev 0.9042

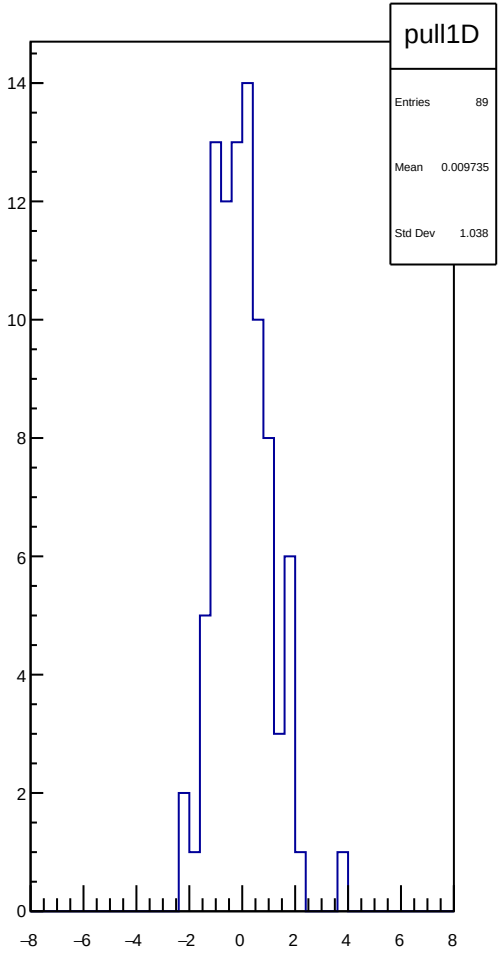

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.988e+05 / 88
p0 2.096e−10 ± 2.047e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

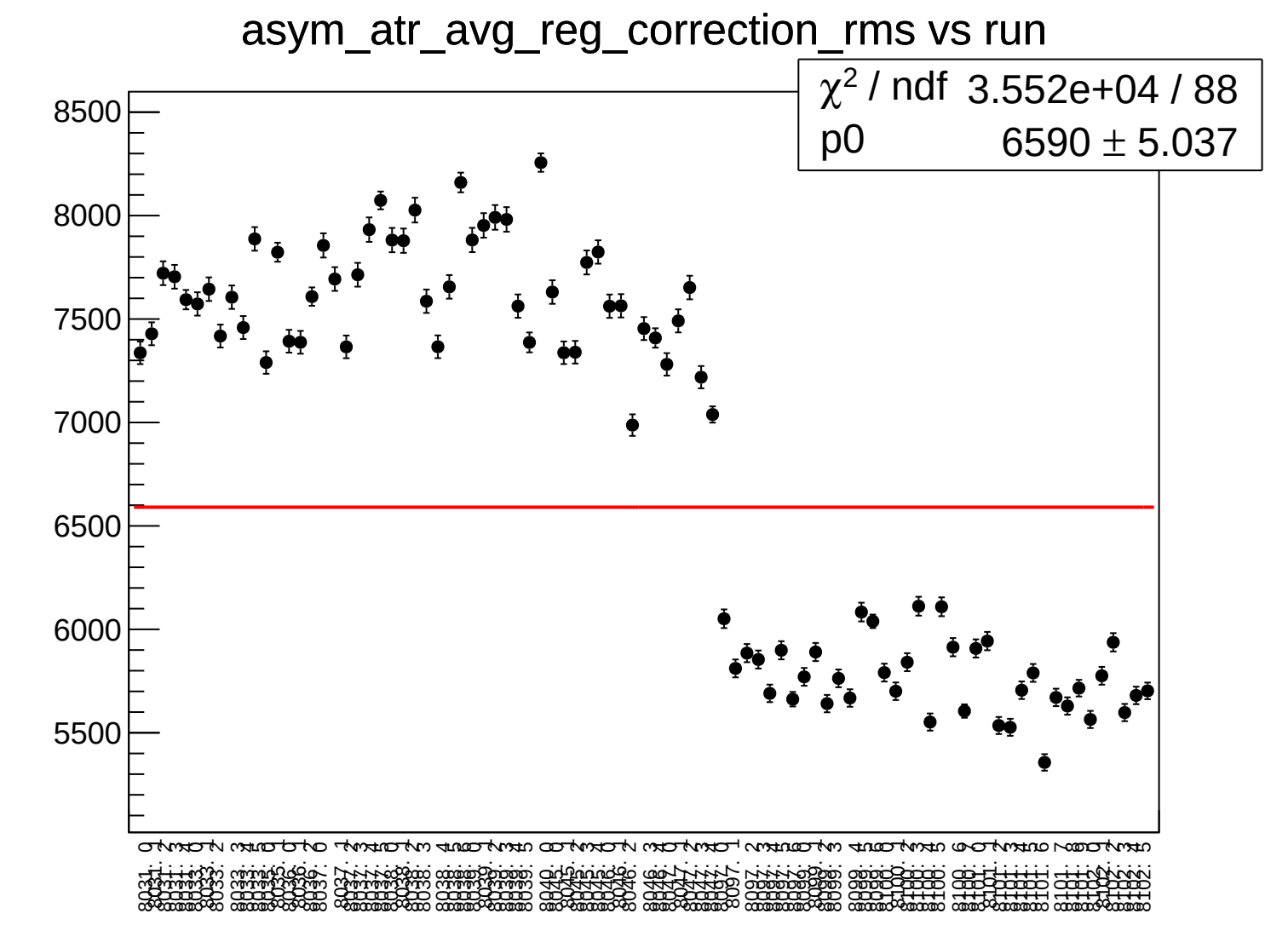

reg_asym_atr_avg_mean vs run
χ² / ndf 84.15 / 88
p0 3058 ± 2065
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 258.1
Std Dev 0
2
1
0
−1
−2

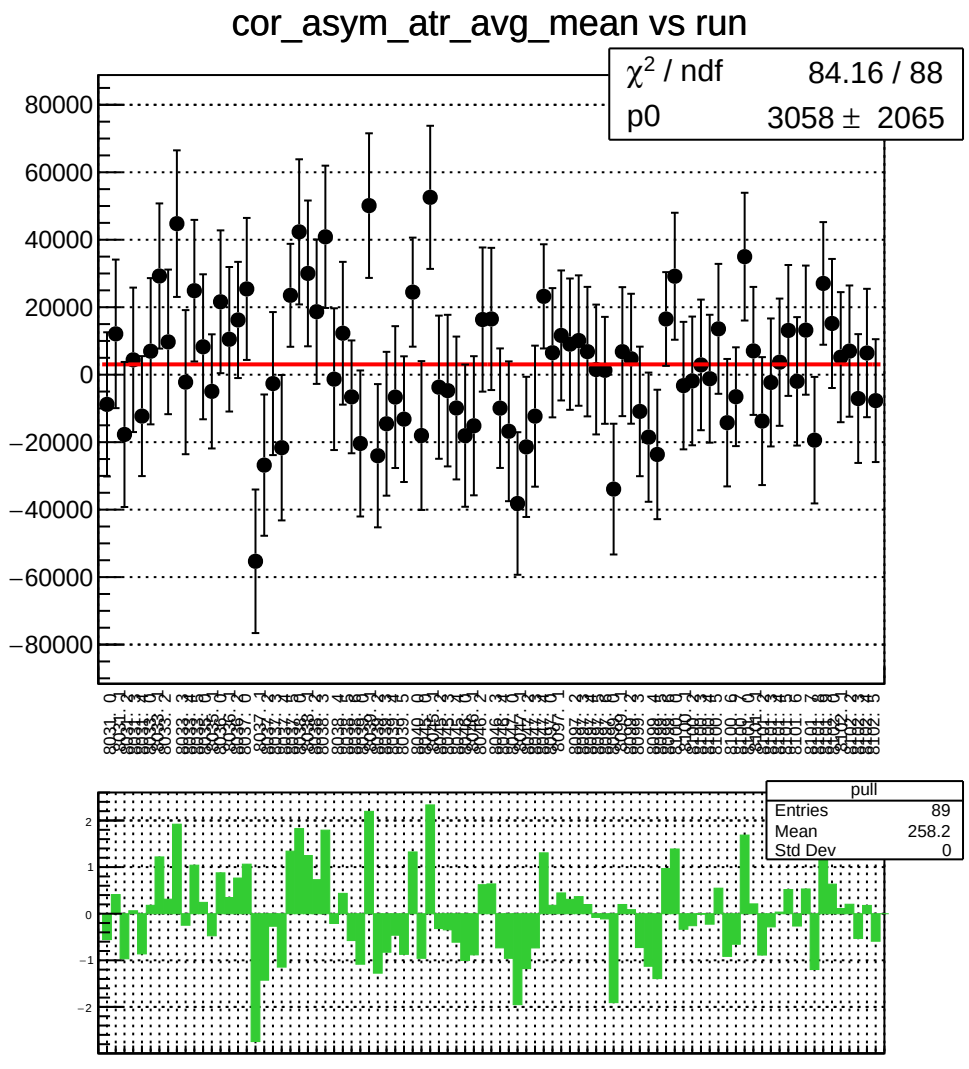

pull1D
Entries 89
Mean −0.009056
Std Dev 0.9724
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

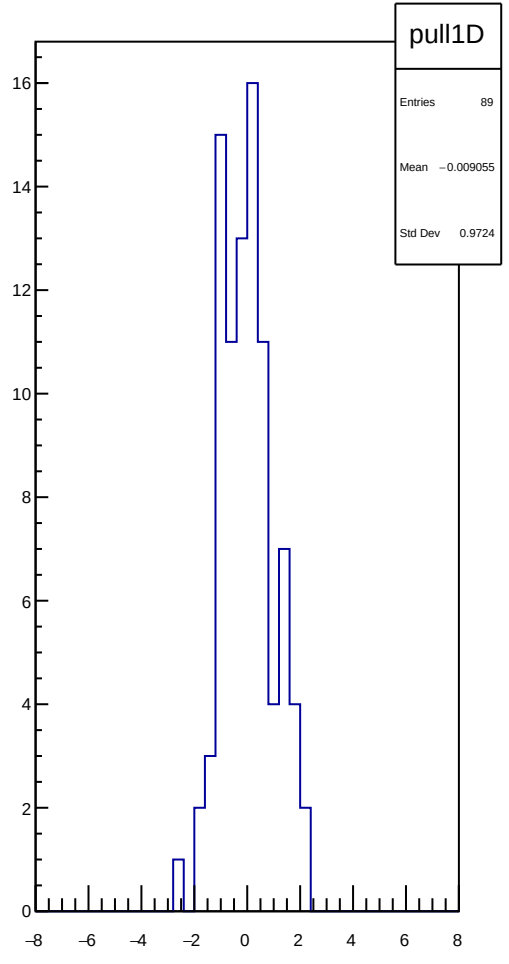

reg_asym_atr_avg_rms vs run
χ² / ndf 5688 / 88
p0 1927 ± 1.46
2150
2100
2050
2000
1950
1900
1850
1800
1750

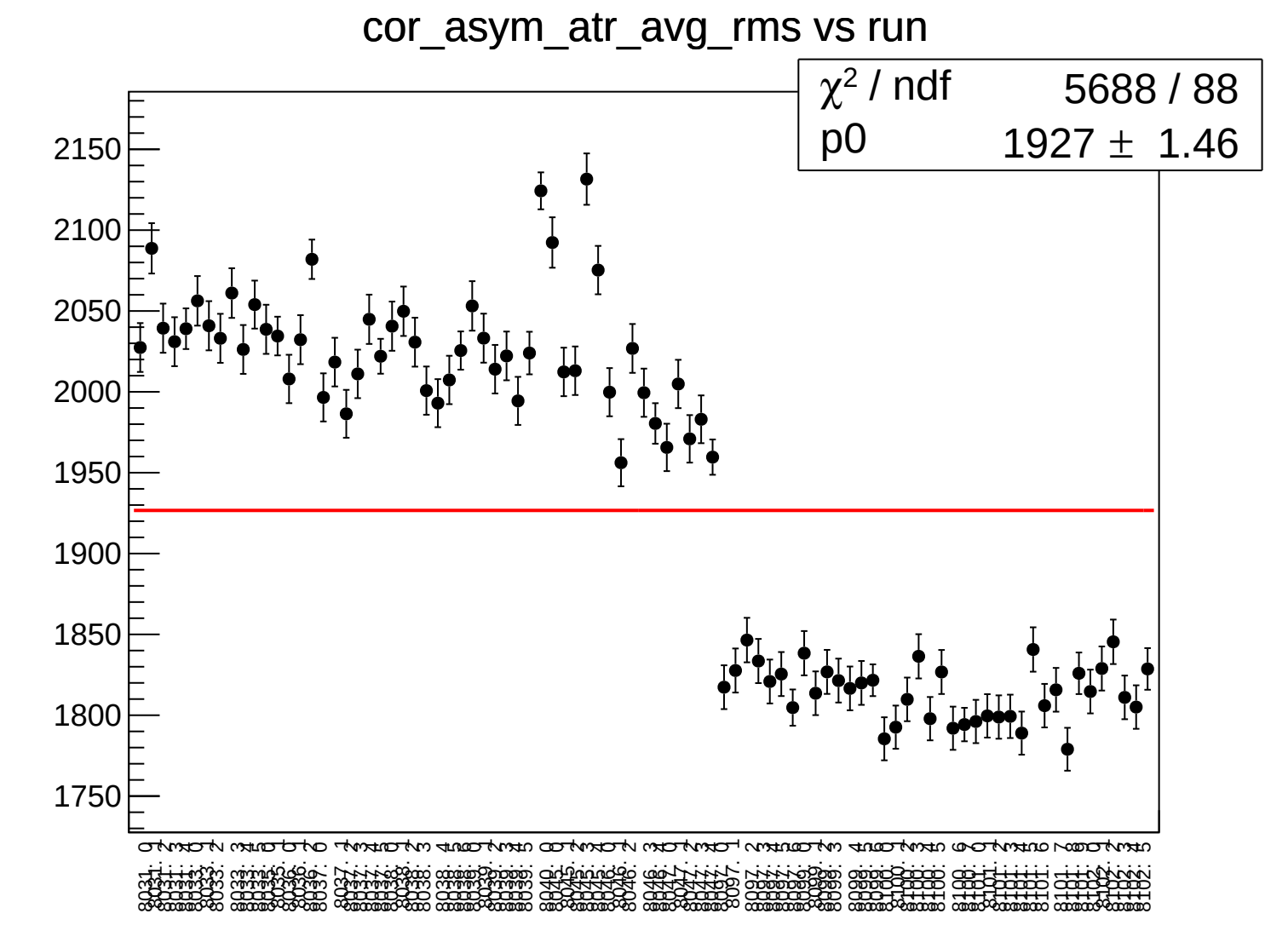

asym_atr_avg_reg_correction_mean vs run
×10^3
χ² / ndf 95.91 / 88
p0 3177 ± 7123
pull
Entries 89
Mean −139.3
Std Dev 0

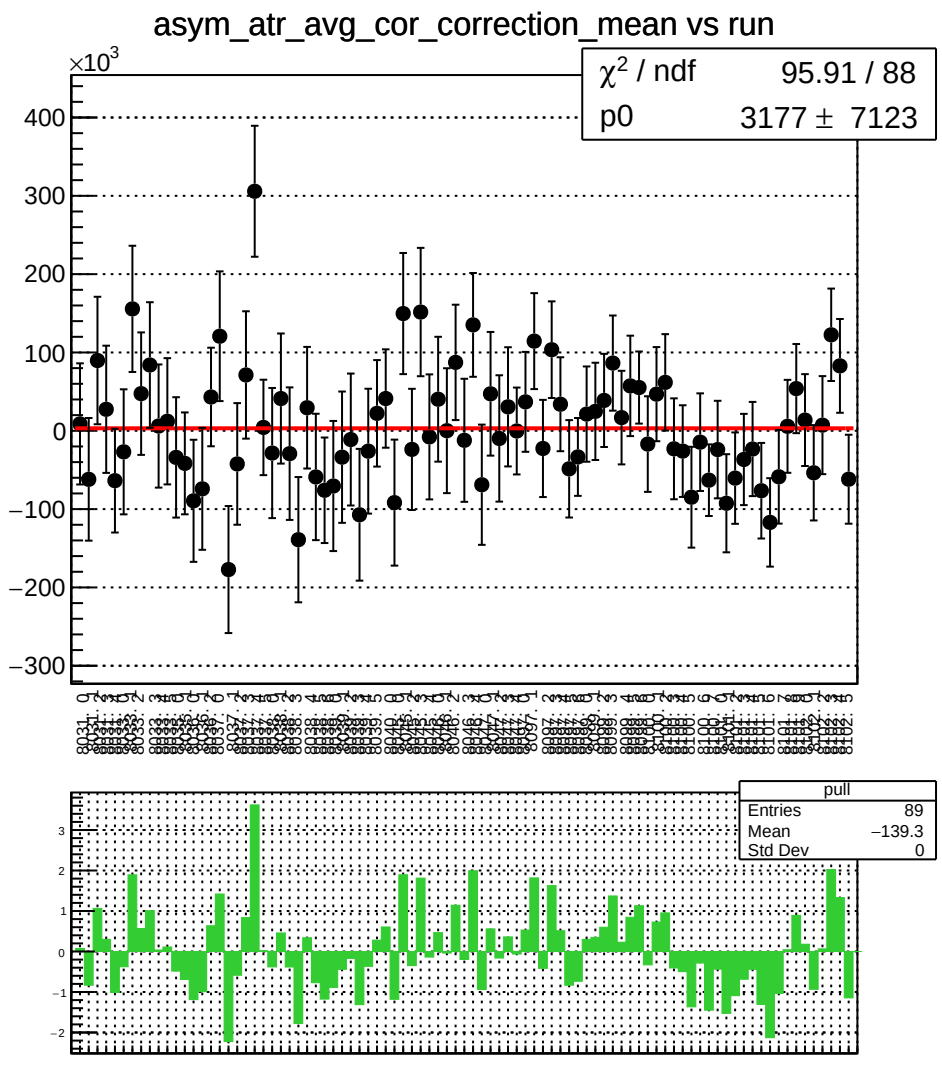

pull1D
Entries 89
Mean 0.009735
Std Dev 1.038

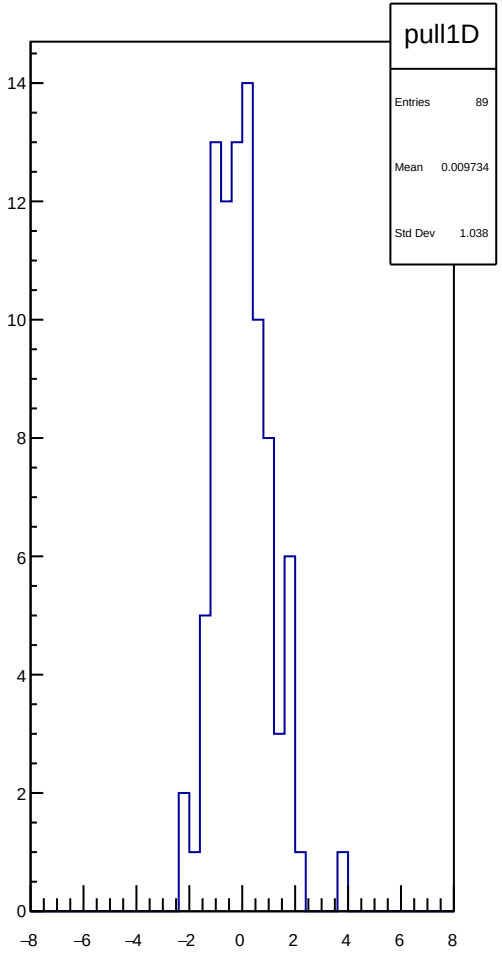

asym_atr_avg_reg_correction_rms vs run
χ² / ndf 3.552e+04 / 88
p0 6590 ± 5.037
8500
8000
7500
7000
6500
6000
5500

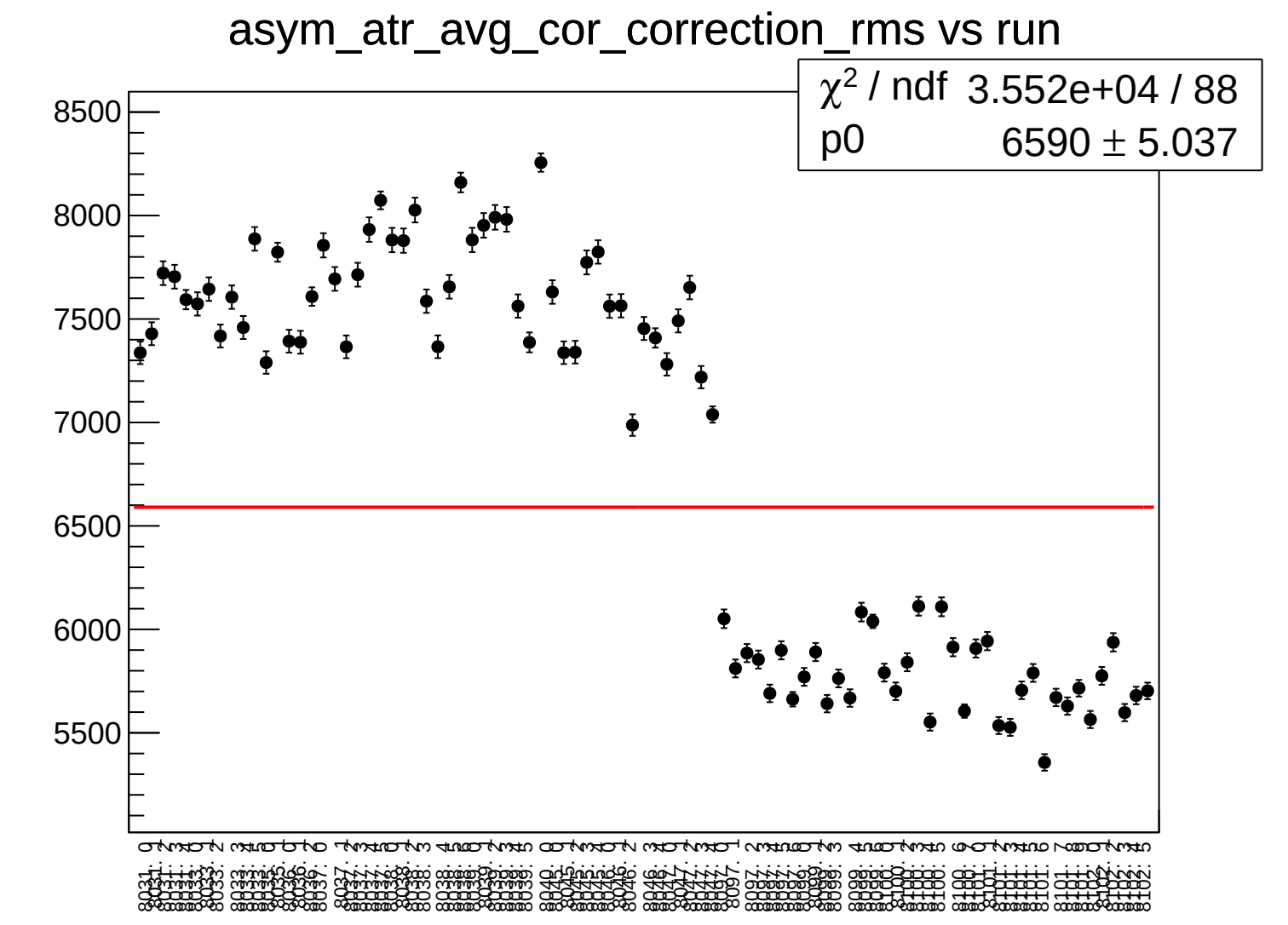

cor_asym_atr_avg_mean vs run
χ² / ndf 84.16 / 88
p0 3058 ± 2065
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 258.2
Std Dev 0
2
1
0
−1
−2

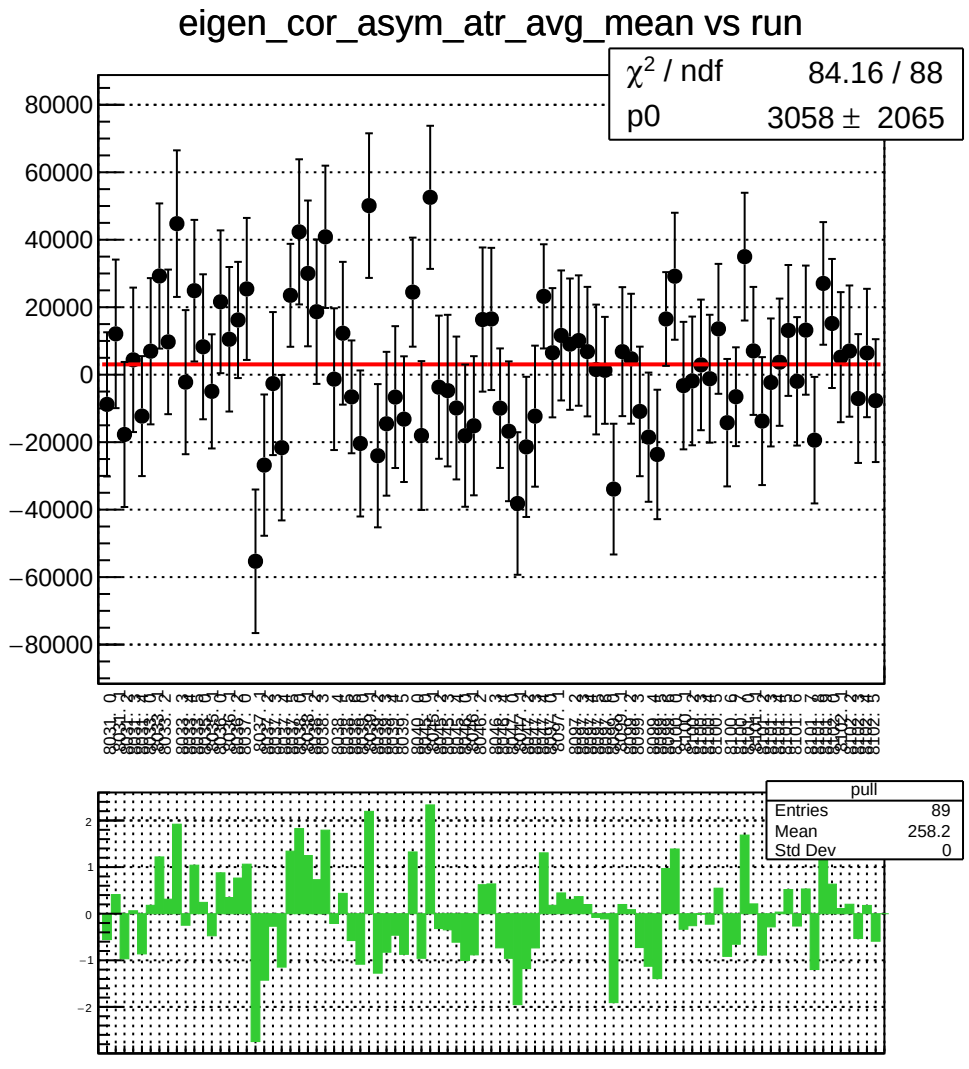

pull1D
Entries 89
Mean −0.009055
Std Dev 0.9724
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

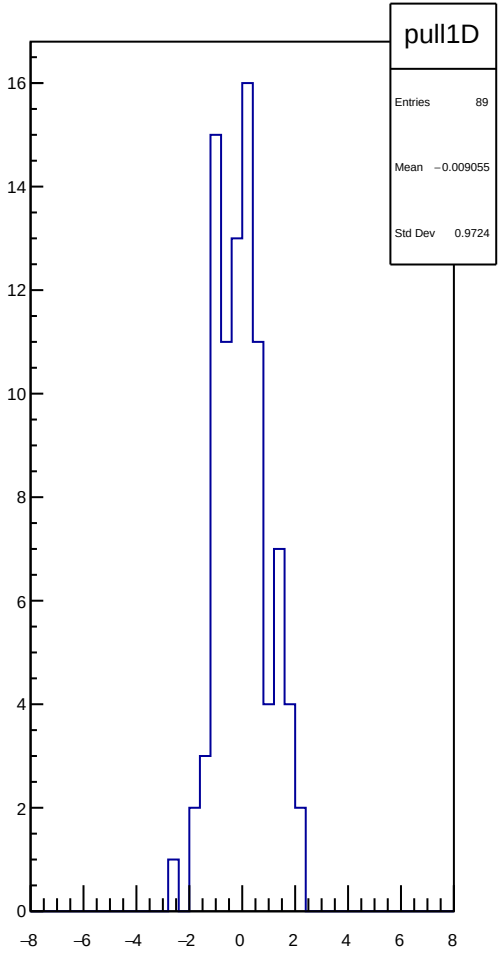

cor_asym_atr_avg_rms vs run
χ² / ndf 5688 / 88
p0 1927 ± 1.46
2150
2100
2050
2000
1950
1900
1850
1800
1750

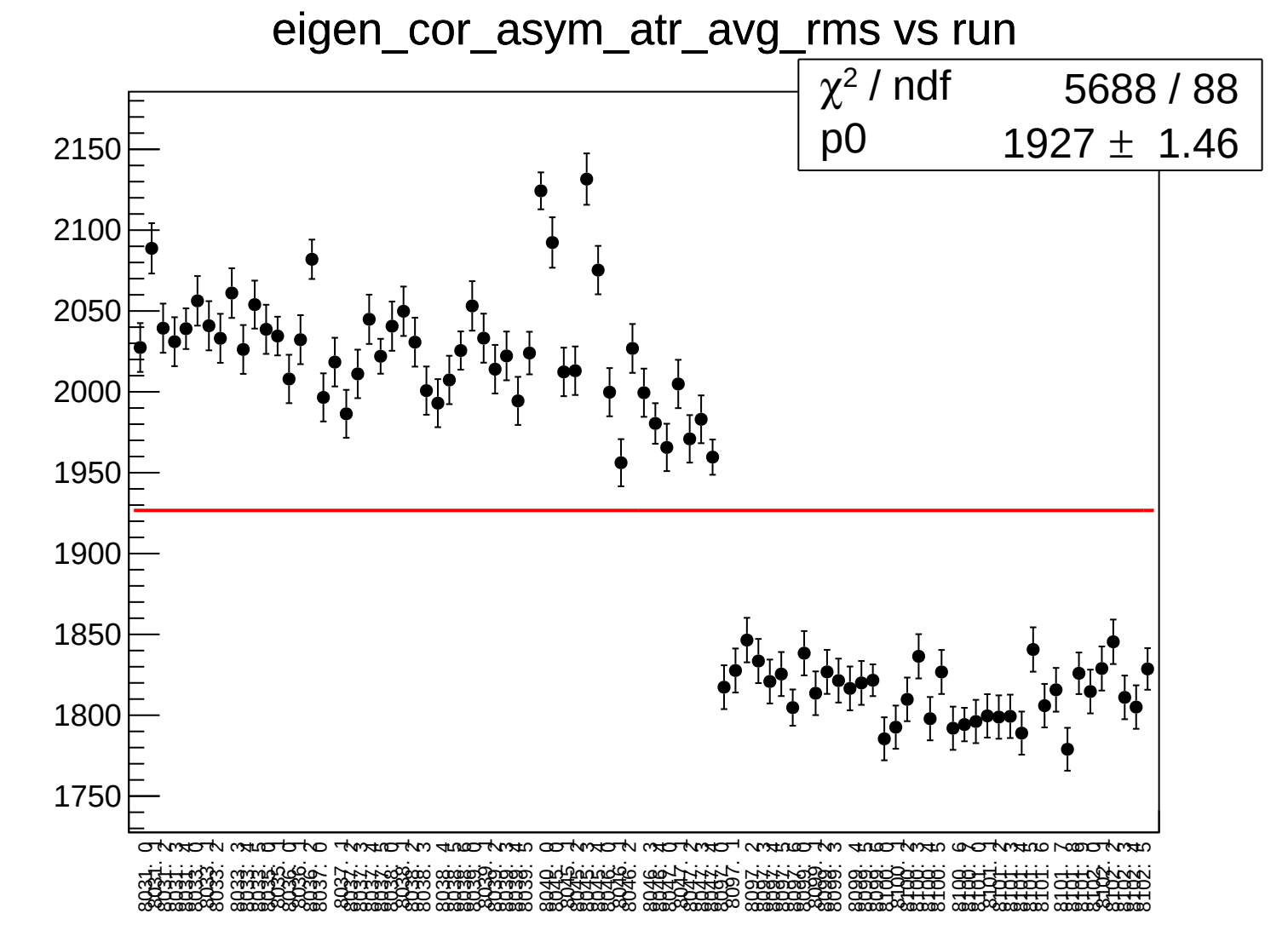

asym_atr_avg_cor_correction_mean vs run
$\chi^2$ / ndf 95.91 / 88
p0 3177 ± 7123
×10^3
pull
Entries 89
Mean −139.3
Std Dev 0

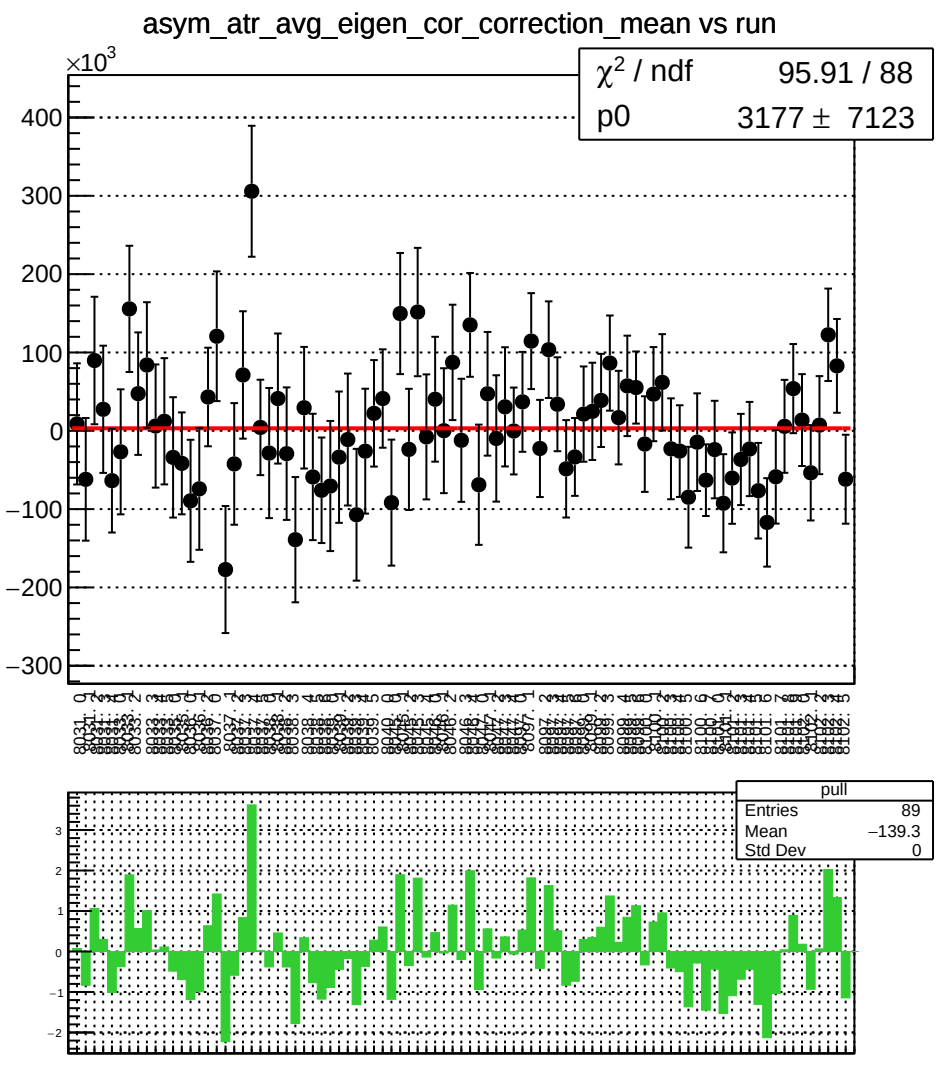

pull1D
Entries 89
Mean 0.009734
Std Dev 1.038

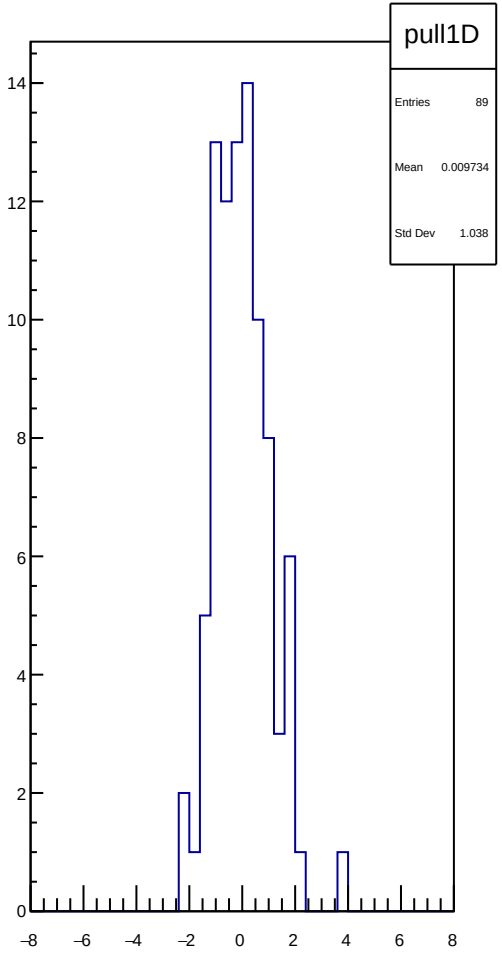

asym_atr_avg_cor_correction_rms vs run
χ² / ndf 3.552e+04 / 88
p0 6590 ± 5.037
8500
8000
7500
7000
6500
6000
5500

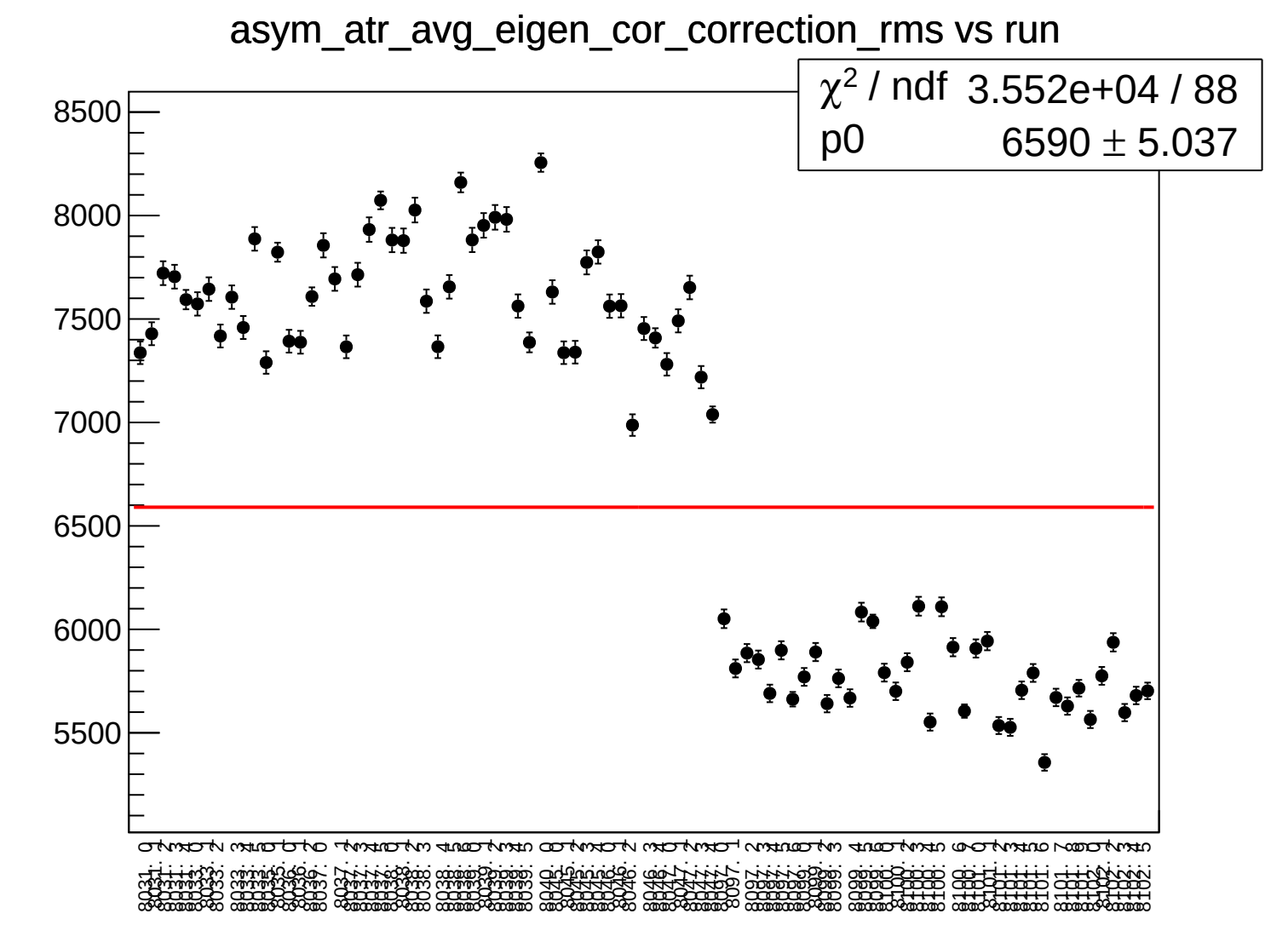

eigen_cor_asym_atr_avg_mean vs run
χ² / ndf 84.16 / 88
p0 3058 ± 2065
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 258.2
Std Dev 0
2
1
0
−1
−2

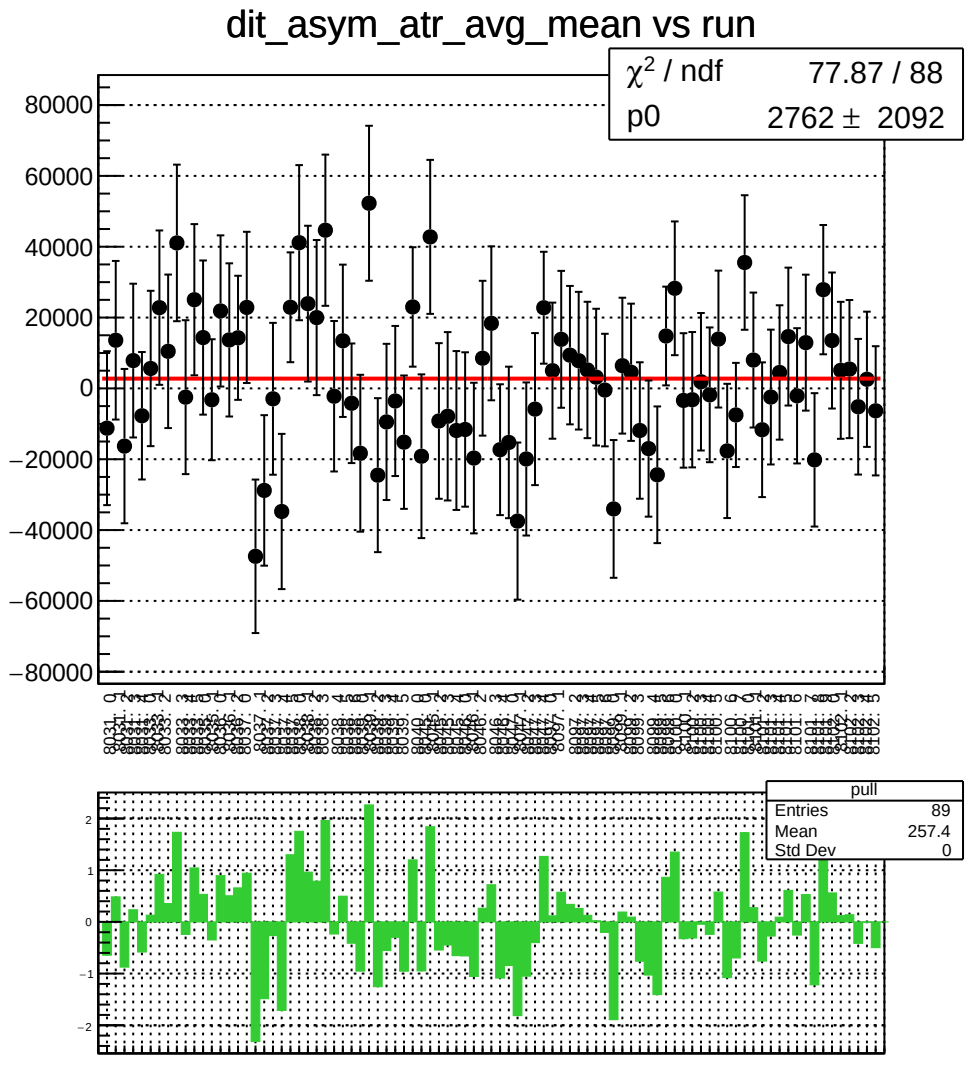

pull1D
Entries 89
Mean −0.009055
Std Dev 0.9724
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

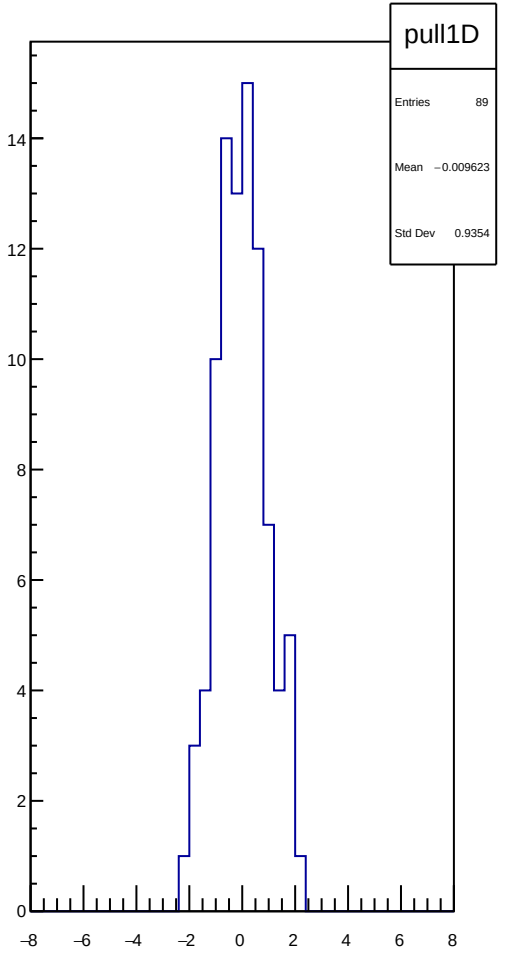

eigen_cor_asym_atr_avg_rms vs run
χ² / ndf 5688 / 88
p0 1927 ± 1.46
2150
2100
2050
2000
1950
1900
1850
1800
1750

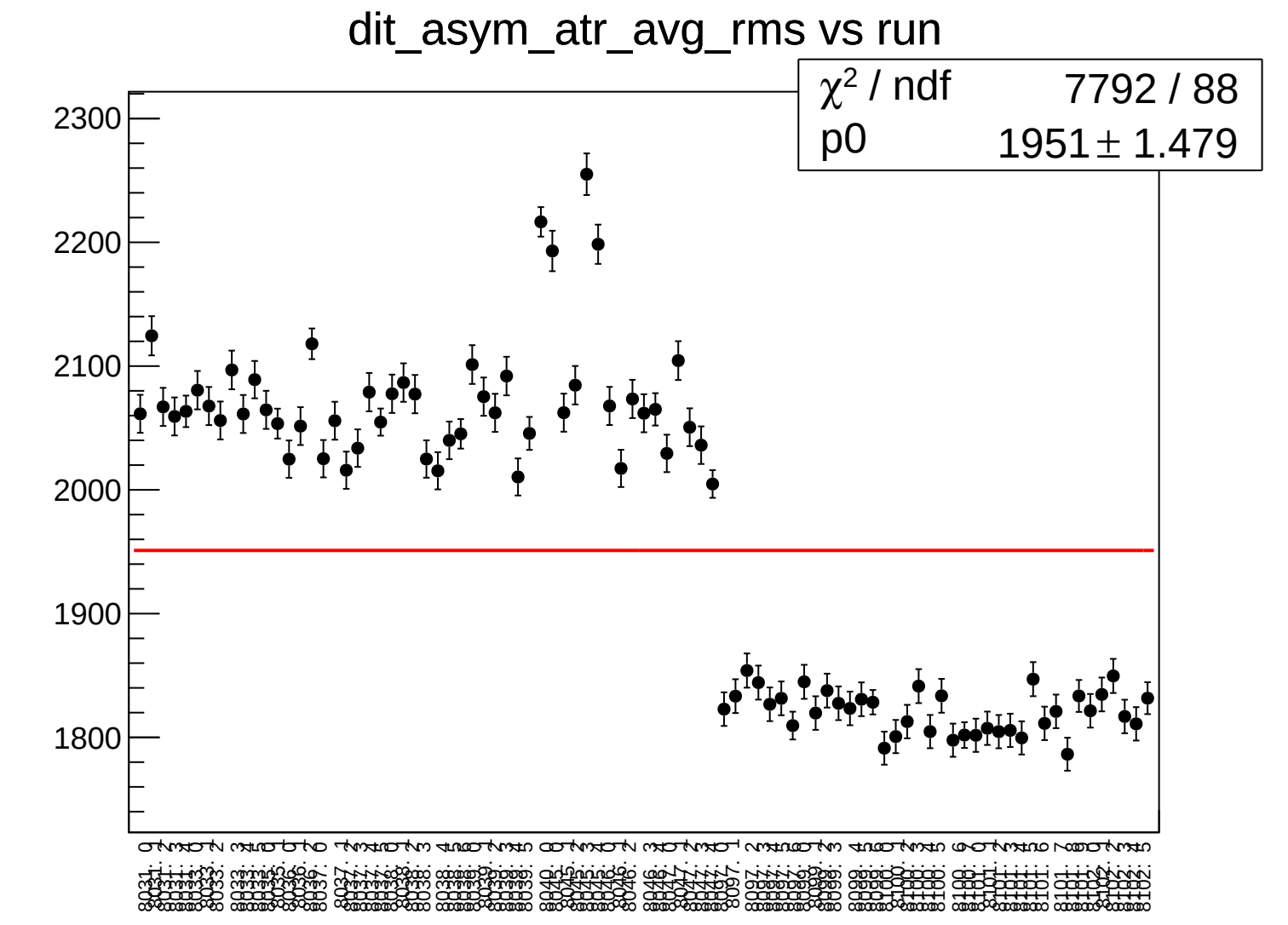

asym_atr_avg_eigen_cor_correction_mean vs run
χ² / ndf 95.91 / 88
p0 3177 ± 7123
×10³
pull
Entries 89
Mean −139.3
Std Dev 0

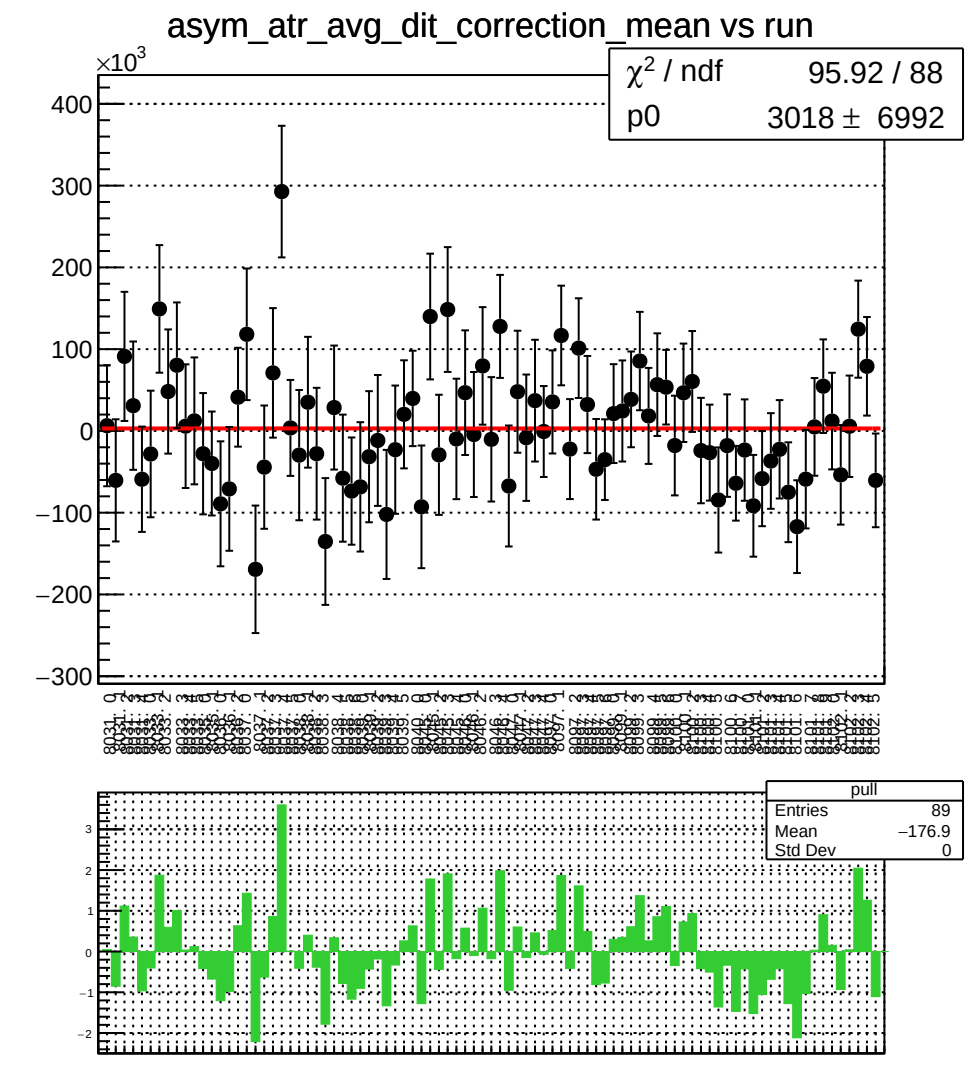

pull1D
Entries 89
Mean 0.009734
Std Dev 1.038

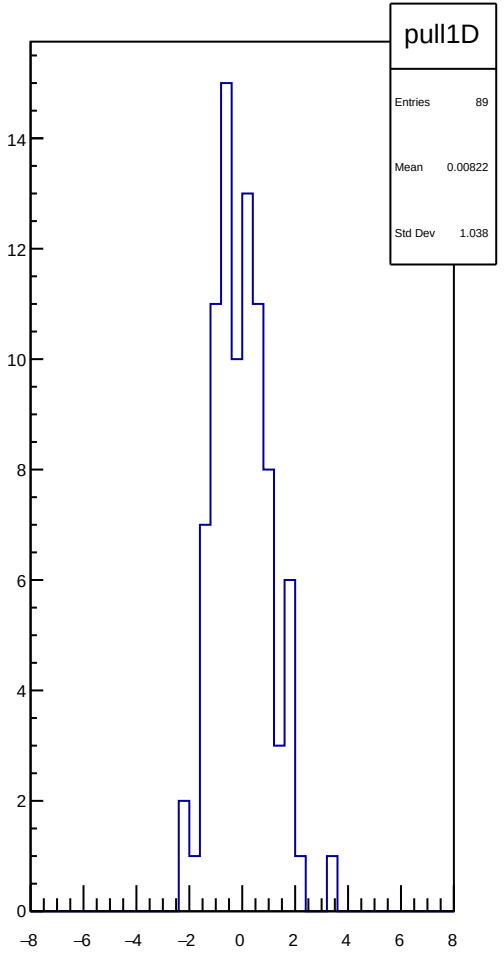

asym_atr_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.552e+04 / 88
p0 6590 ± 5.037
8500
8000
7500
7000
6500
6000
5500

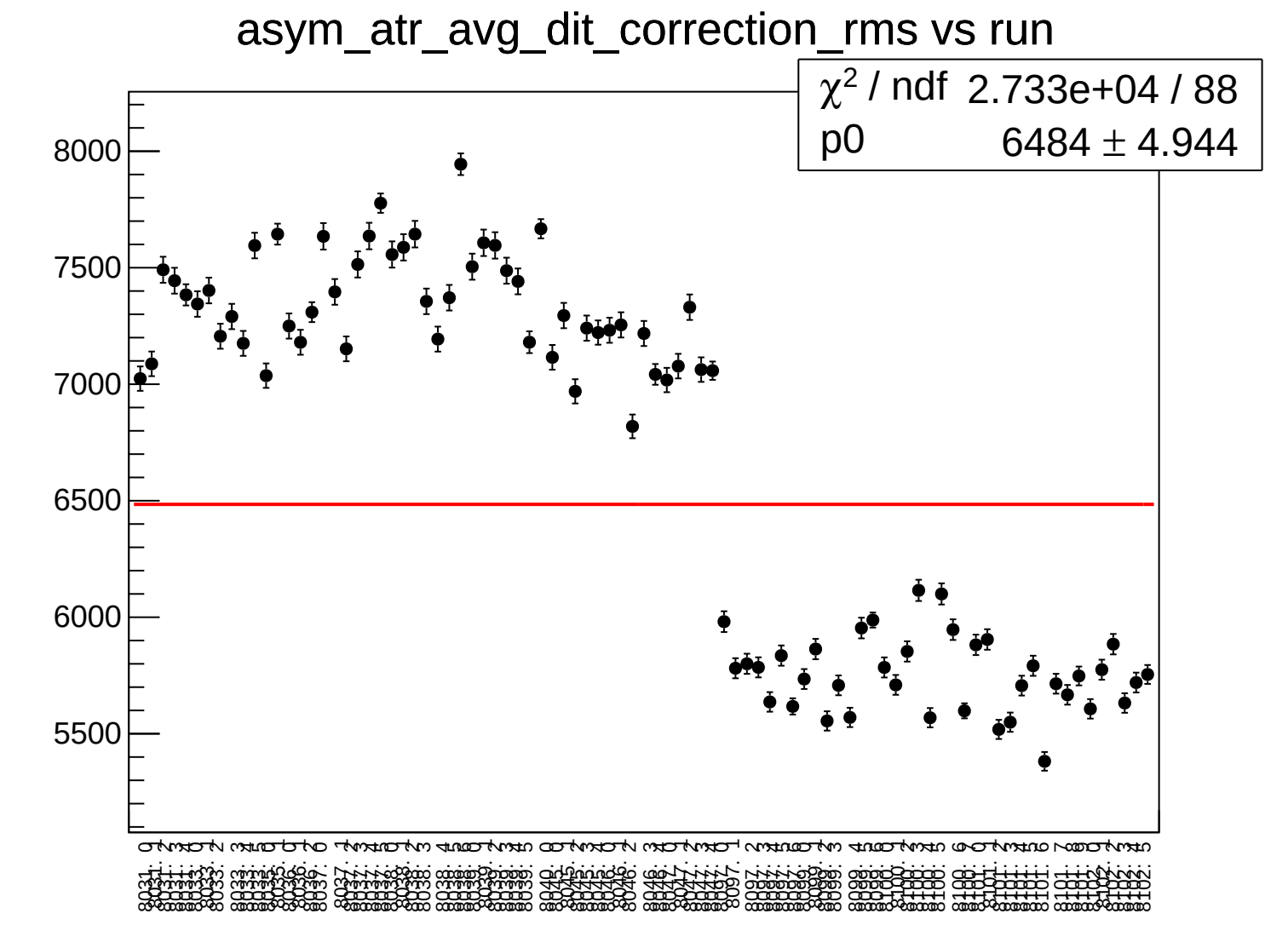

dit_asym_atr_avg_mean vs run
χ² / ndf 77.87 / 88
p0 2762 ± 2092
pull
Entries 89
Mean 257.4
Std Dev 0

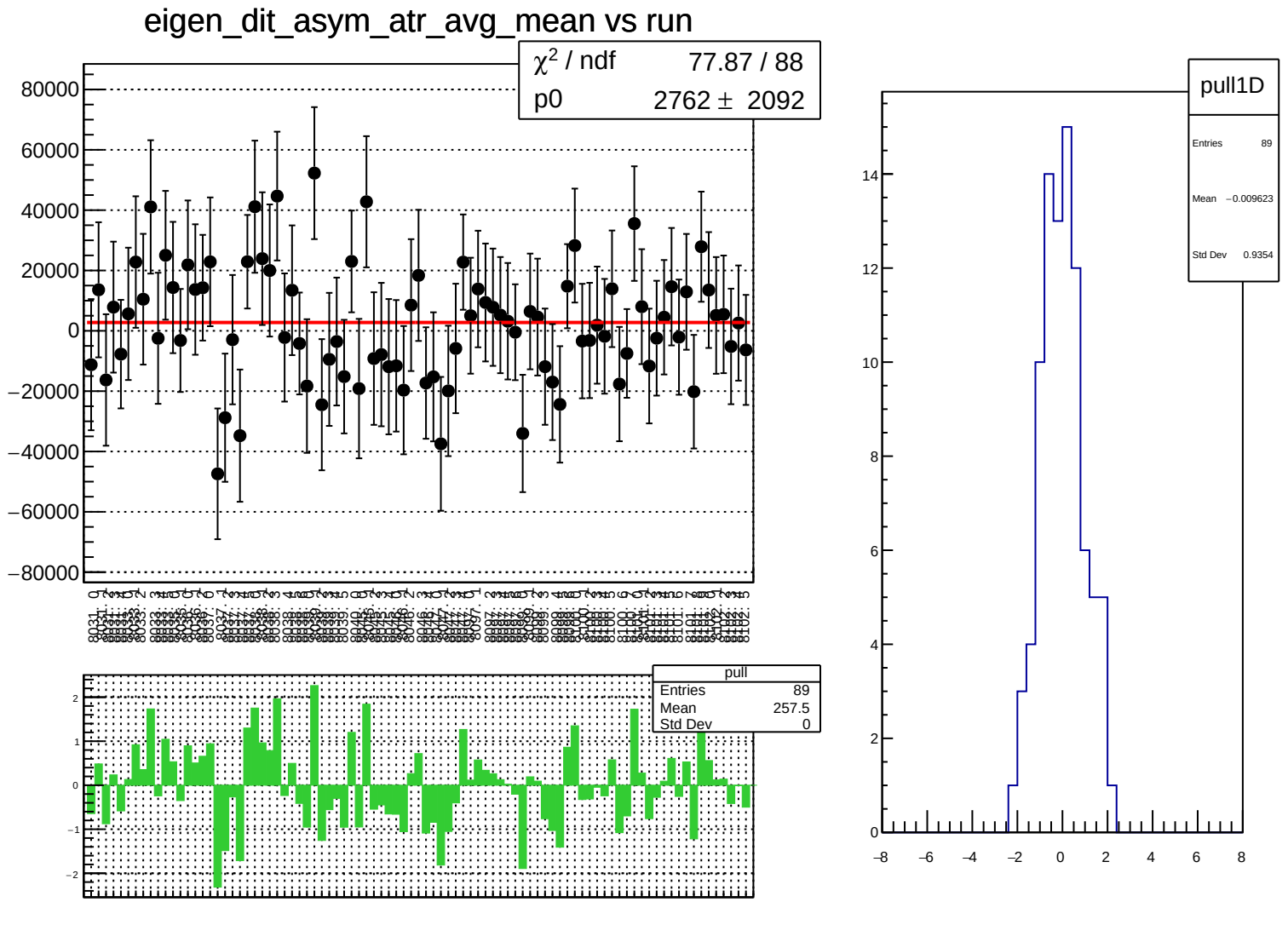

pull1D
Entries 89
Mean −0.009623
Std Dev 0.9354

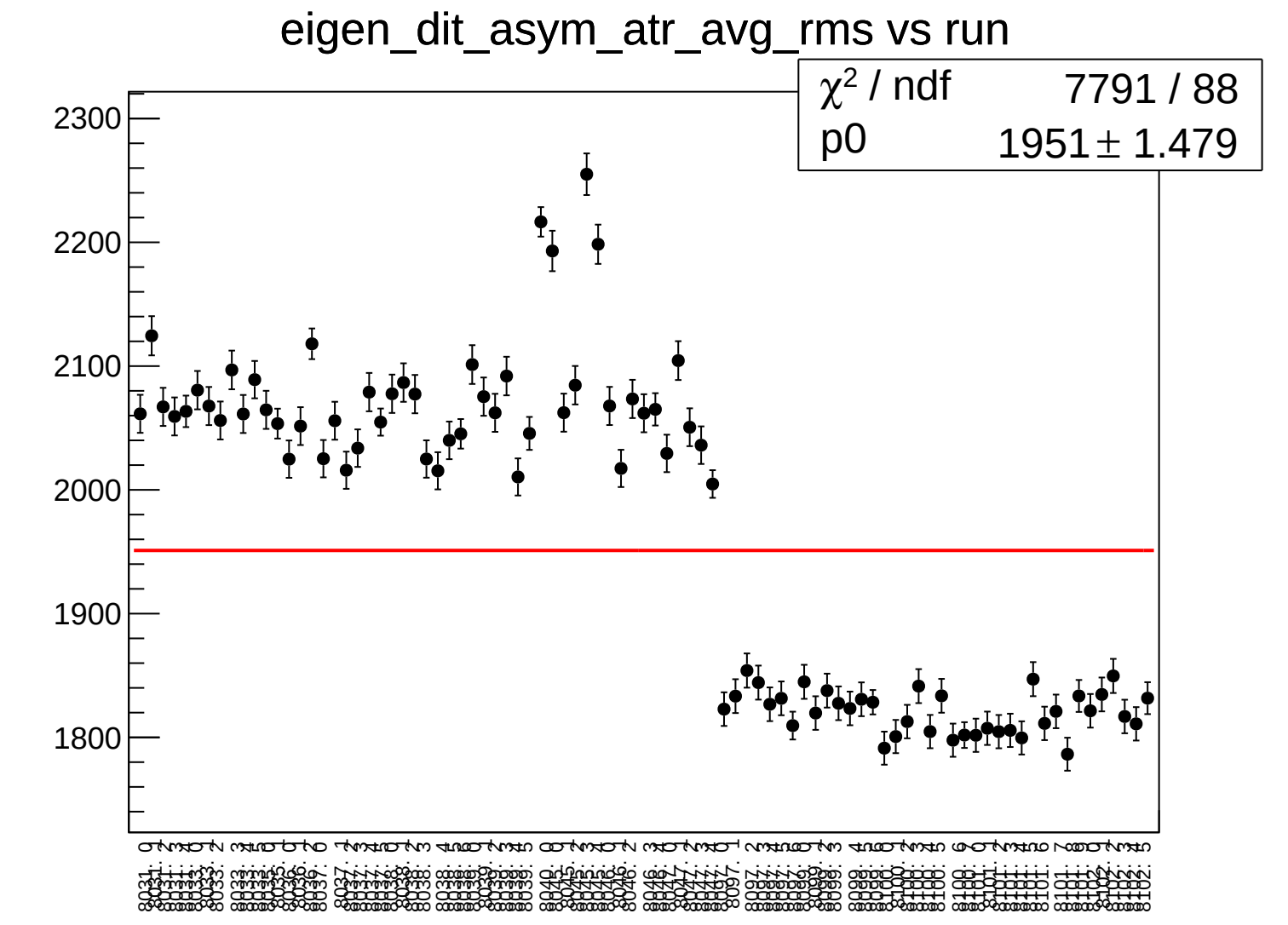

dit_asym_atr_avg_rms vs run
χ² / ndf 7792 / 88
p0 1951 ± 1.479
2300
2200
2100
2000
1900
1800

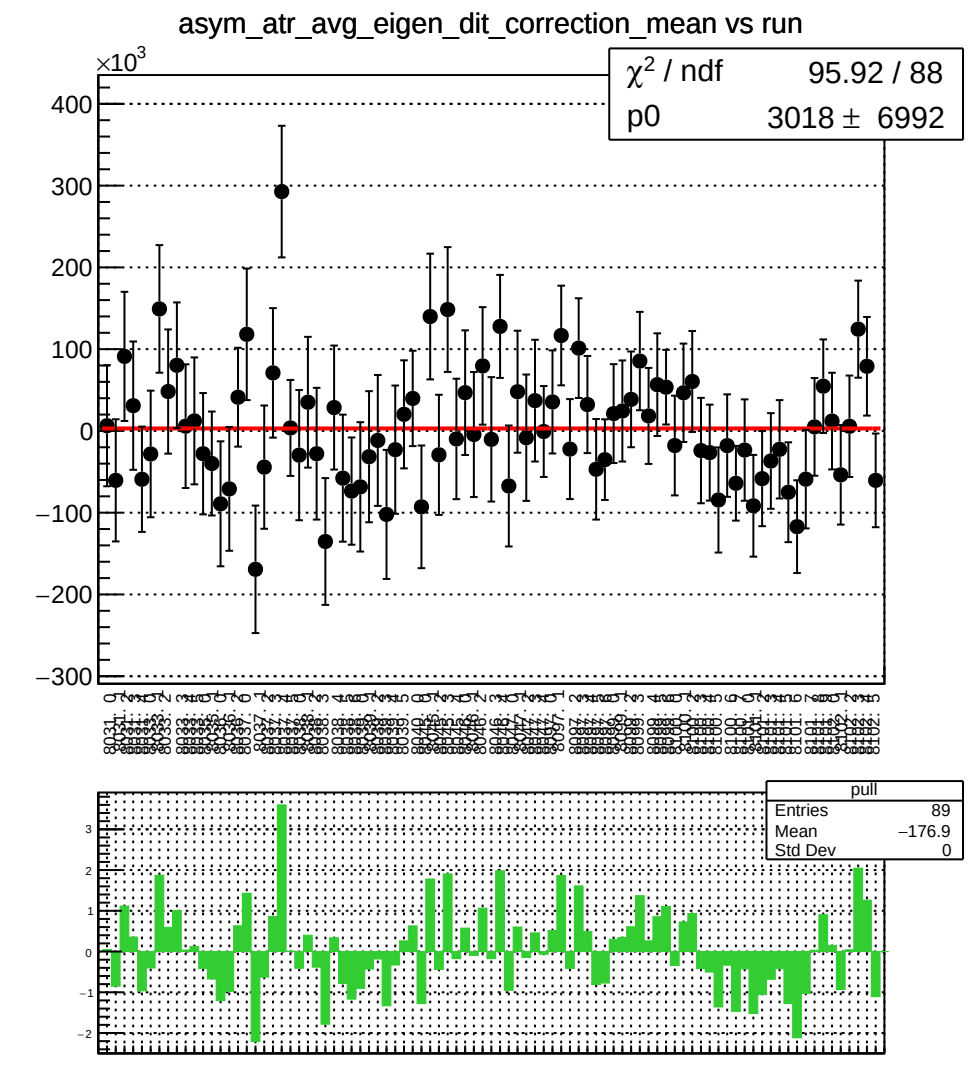

asym_atr_avg_dit_correction_mean vs run
×10^3
χ² / ndf 95.92 / 88
p0 3018 ± 6992
400
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −176.9
Std Dev 0
3
2
1
0
−1
−2

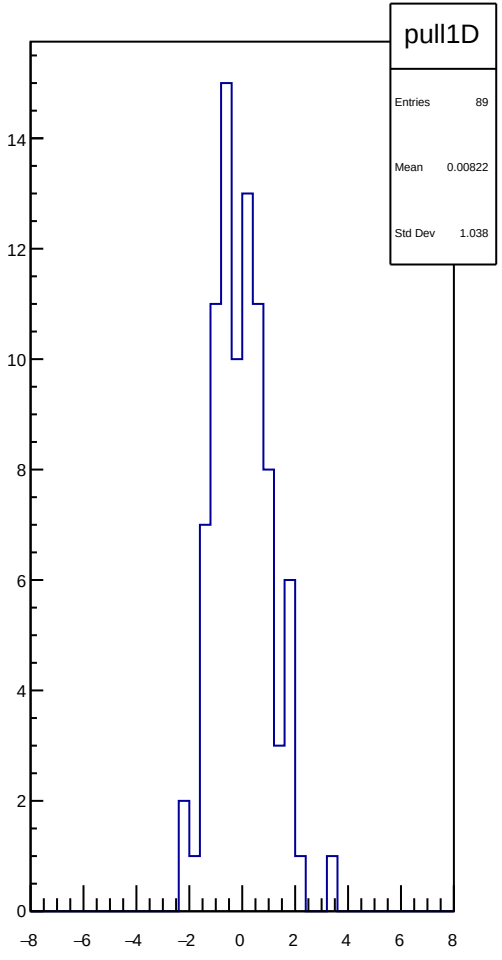

pull1D
Entries 89
Mean 0.00822
Std Dev 1.038
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

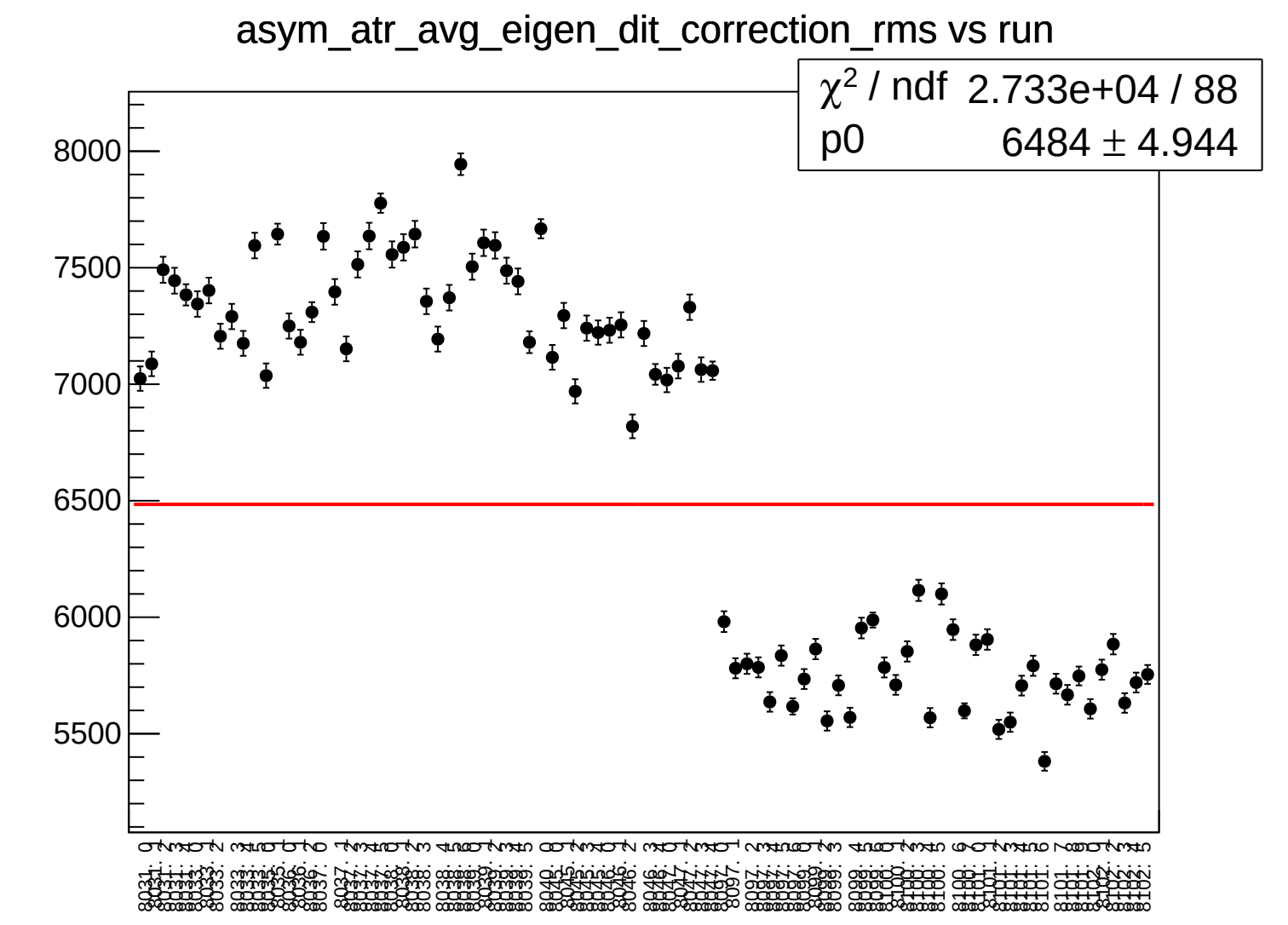

asym_atr_avg_dit_correction_rms vs run
χ² / ndf 2.733e+04 / 88
p0 6484 ± 4.944
8000
7500
7000
6500
6000
5500

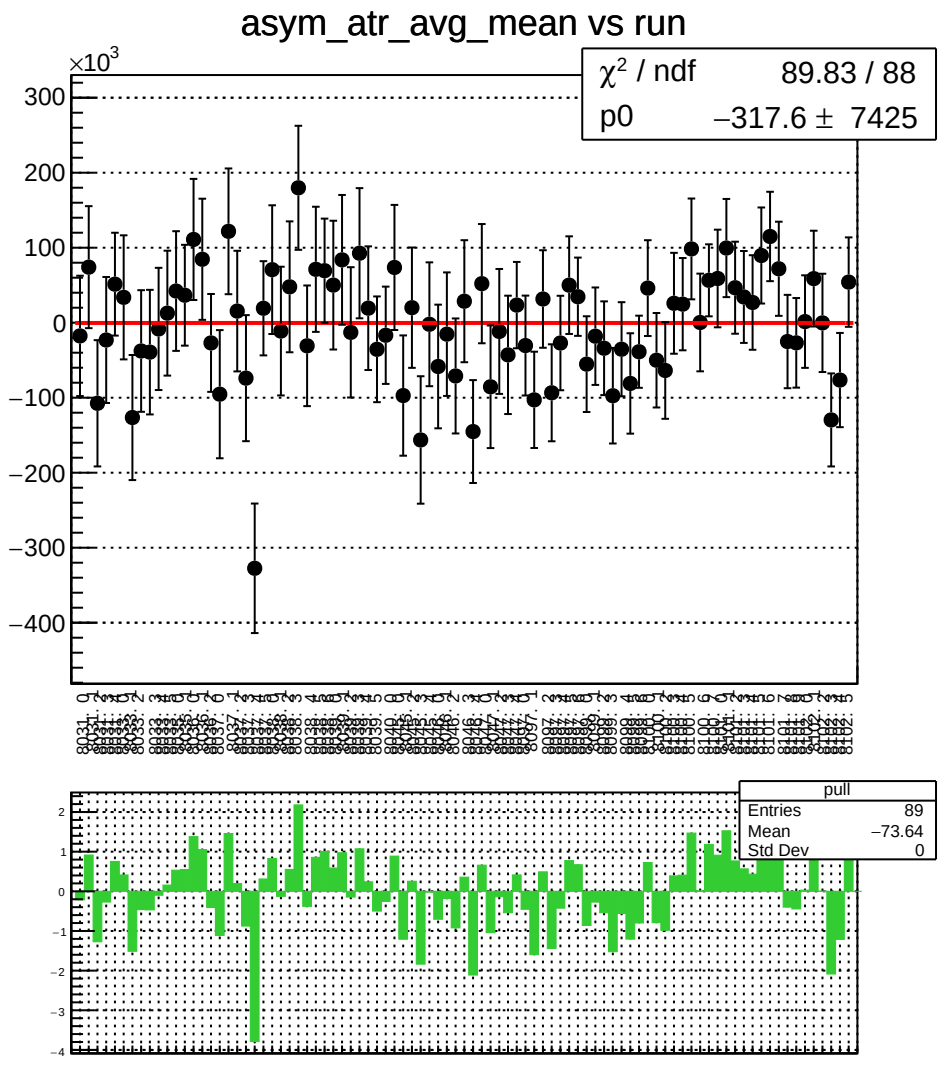

eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 77.87 / 88
p0 2762 ± 2092
pull
Entries 89
Mean 257.5
Std Dev 0
pull1D
Entries 89
Mean −0.009623
Std Dev 0.9354

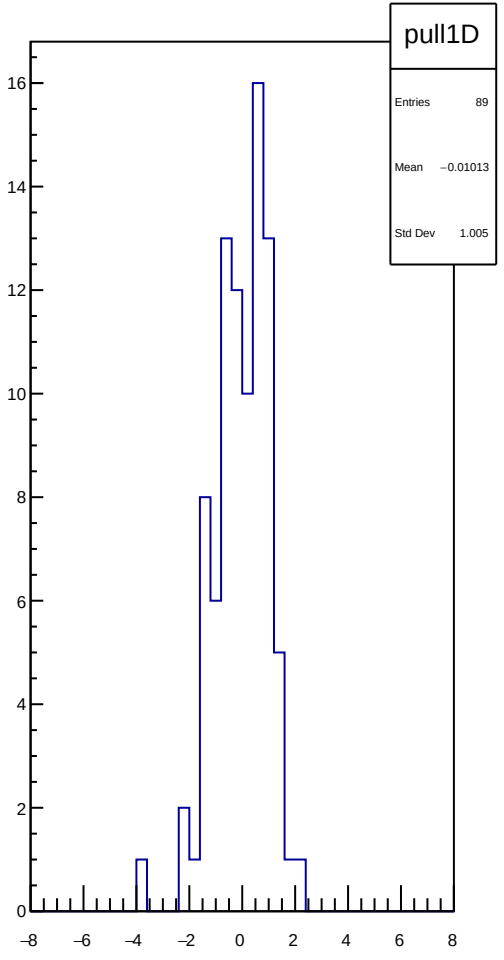

eigen_dit_asym_atr_avg_rms vs run
χ² / ndf 7791 / 88
p0 1951 ± 1.479
2300
2200
2100
2000
1900
1800

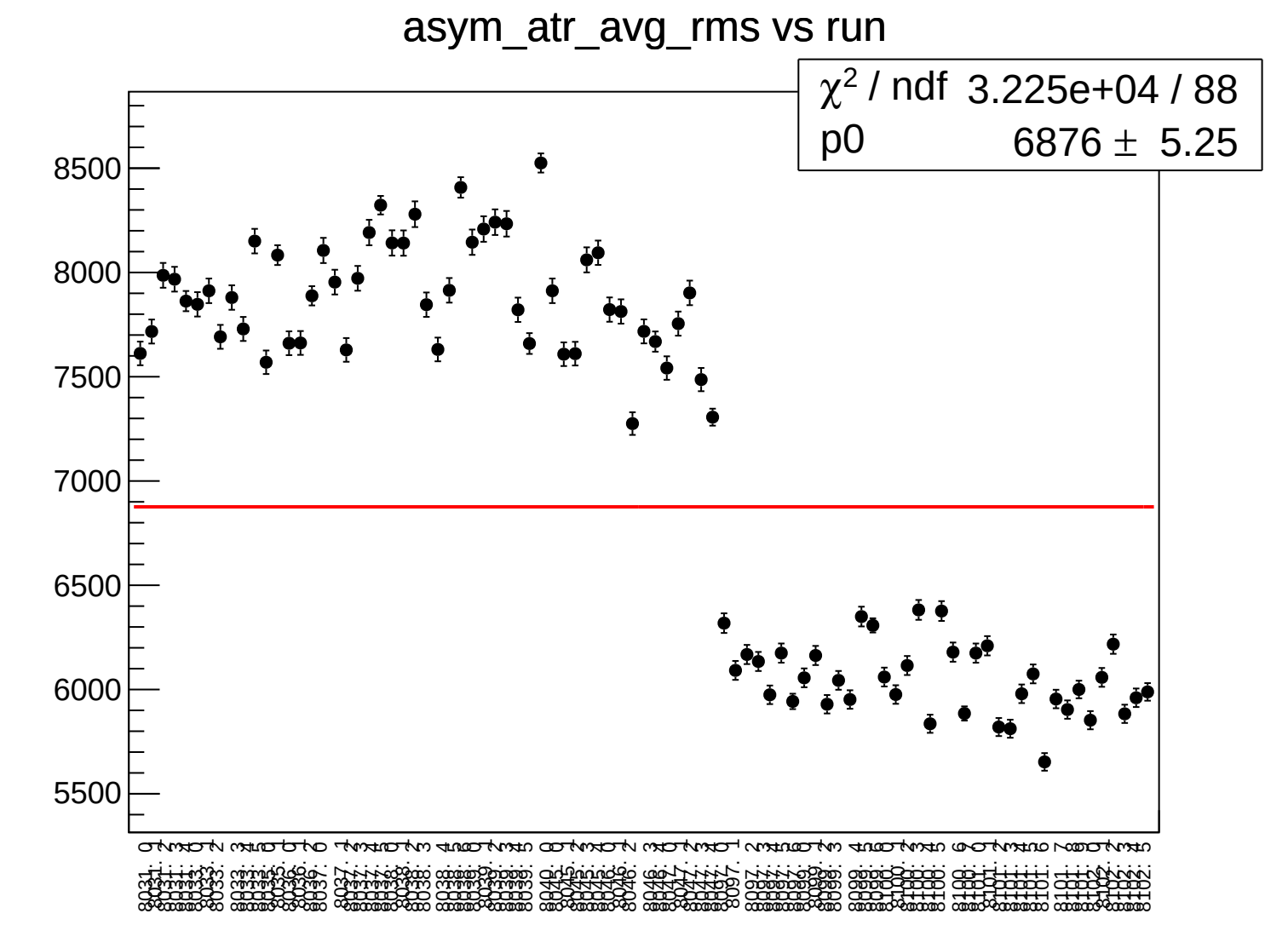

asym_atr_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 95.92 / 88
p0 3018 ± 6992
pull
Entries 89
Mean −176.9
Std Dev 0

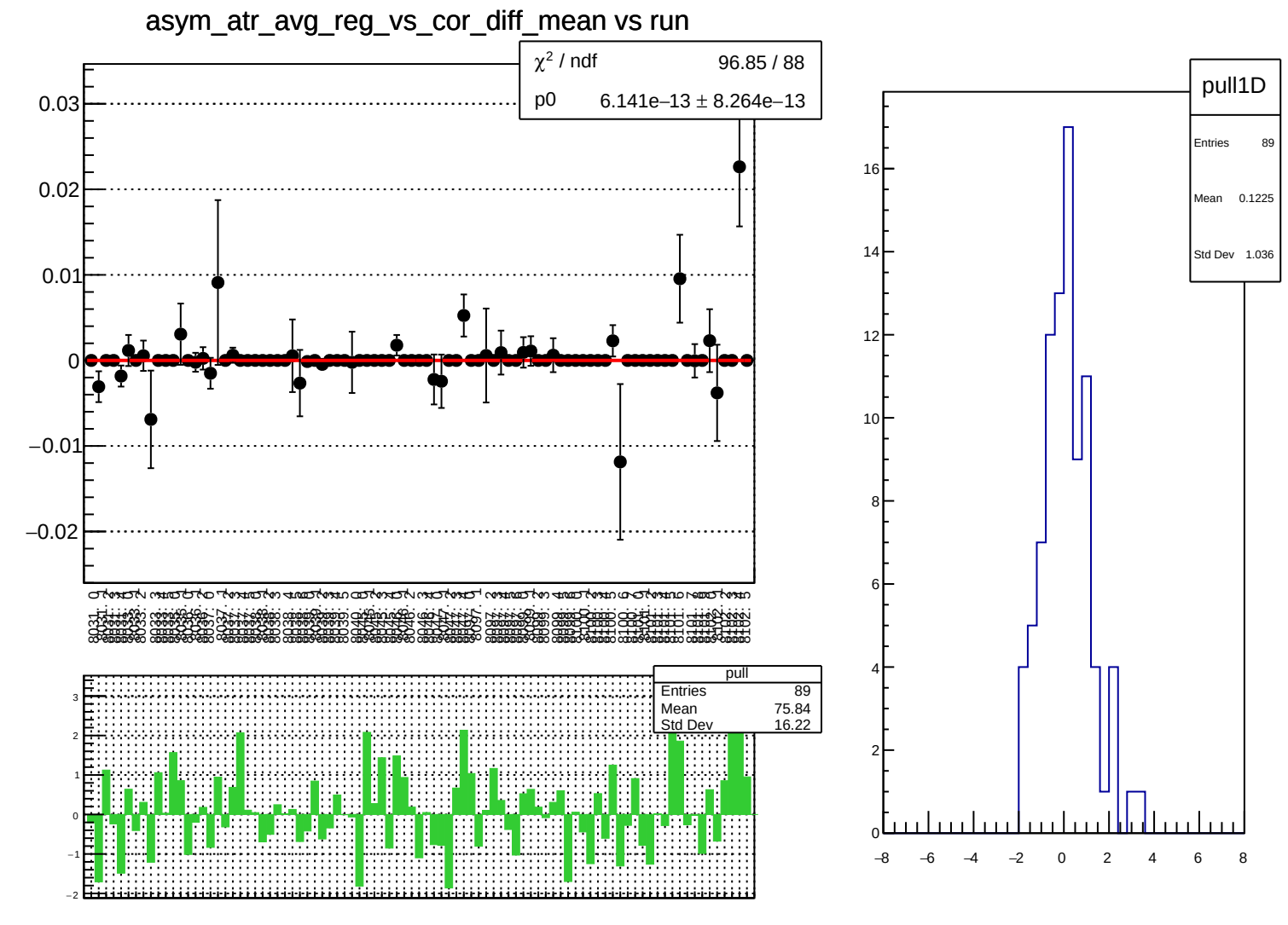

pull1D
Entries 89
Mean 0.00822
Std Dev 1.038

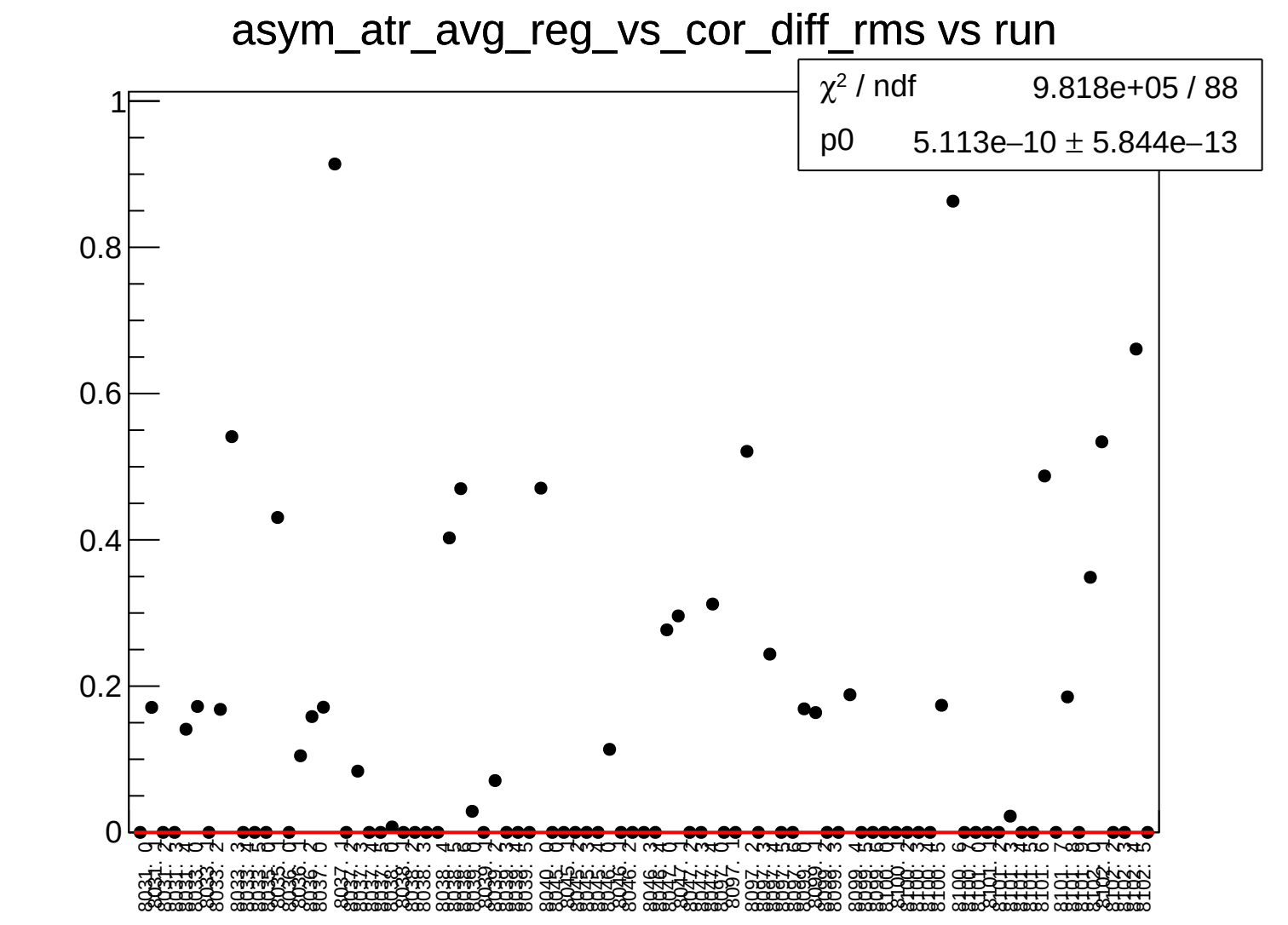

asym_atr_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.733e+04 / 88
p0 6484 ± 4.944
8000
7500
7000
6500
6000
5500

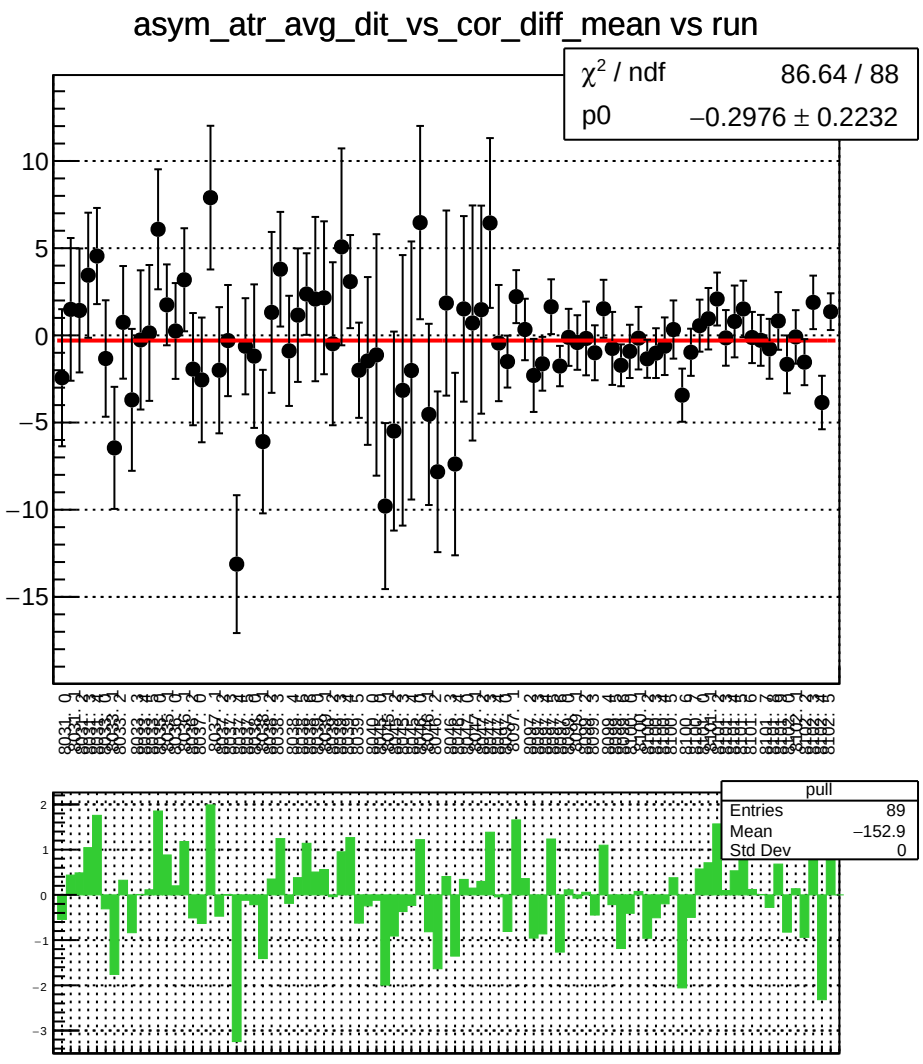

asym_atr_avg_mean vs run
×10^3
χ² / ndf 89.83 / 88
p0 −317.6 ± 7425
pull
Entries 89
Mean −73.64
Std Dev 0

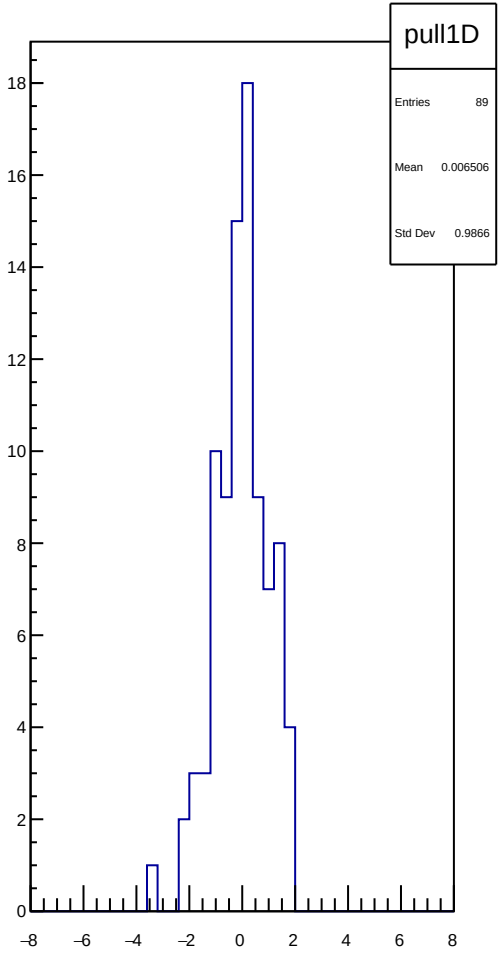

pull1D
Entries 89
Mean −0.01013
Std Dev 1.005

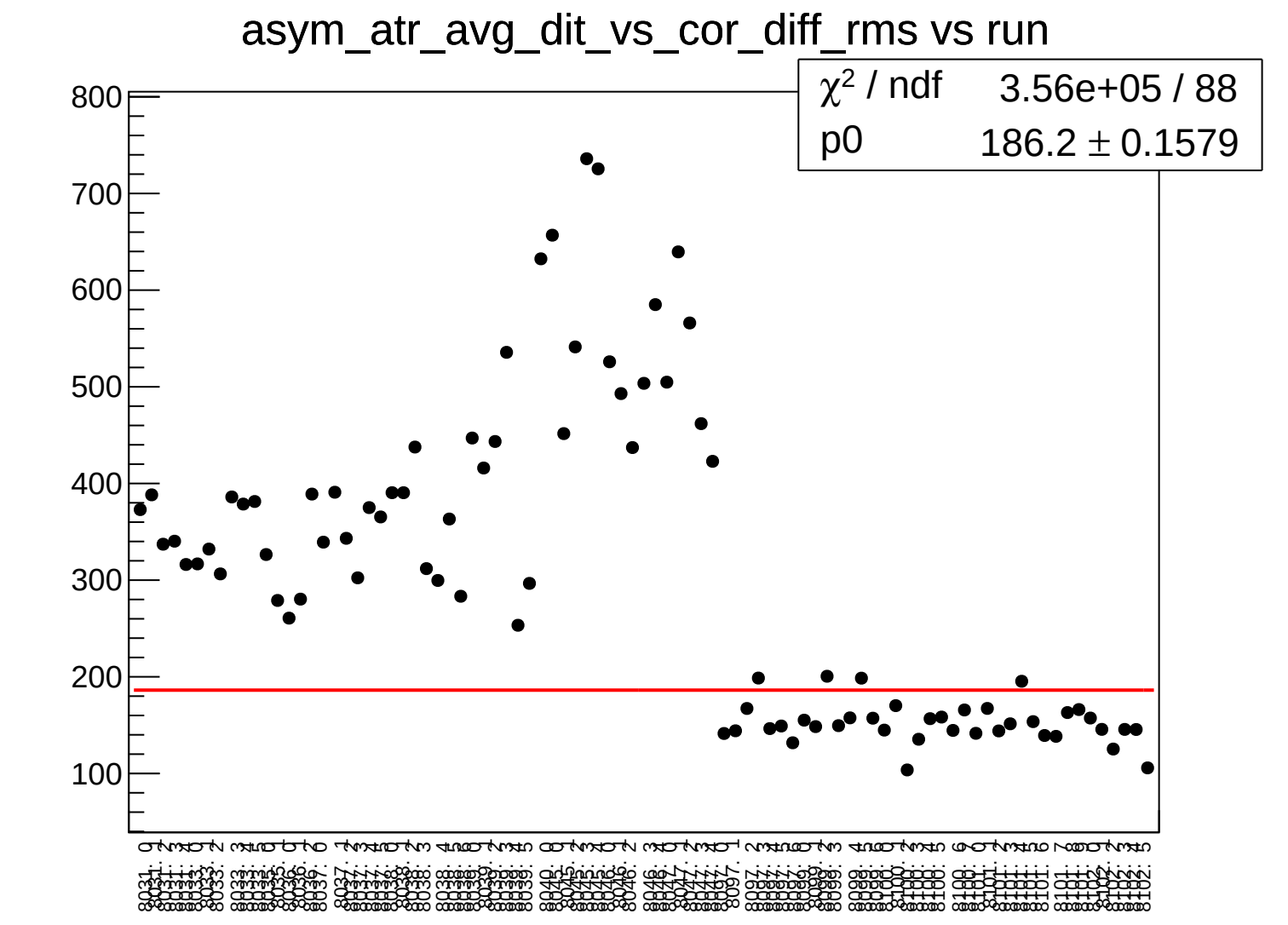

asym_atr_avg_rms vs run
χ² / ndf 3.225e+04 / 88
p0 6876 ± 5.25
8500
8000
7500
7000
6500
6000
5500

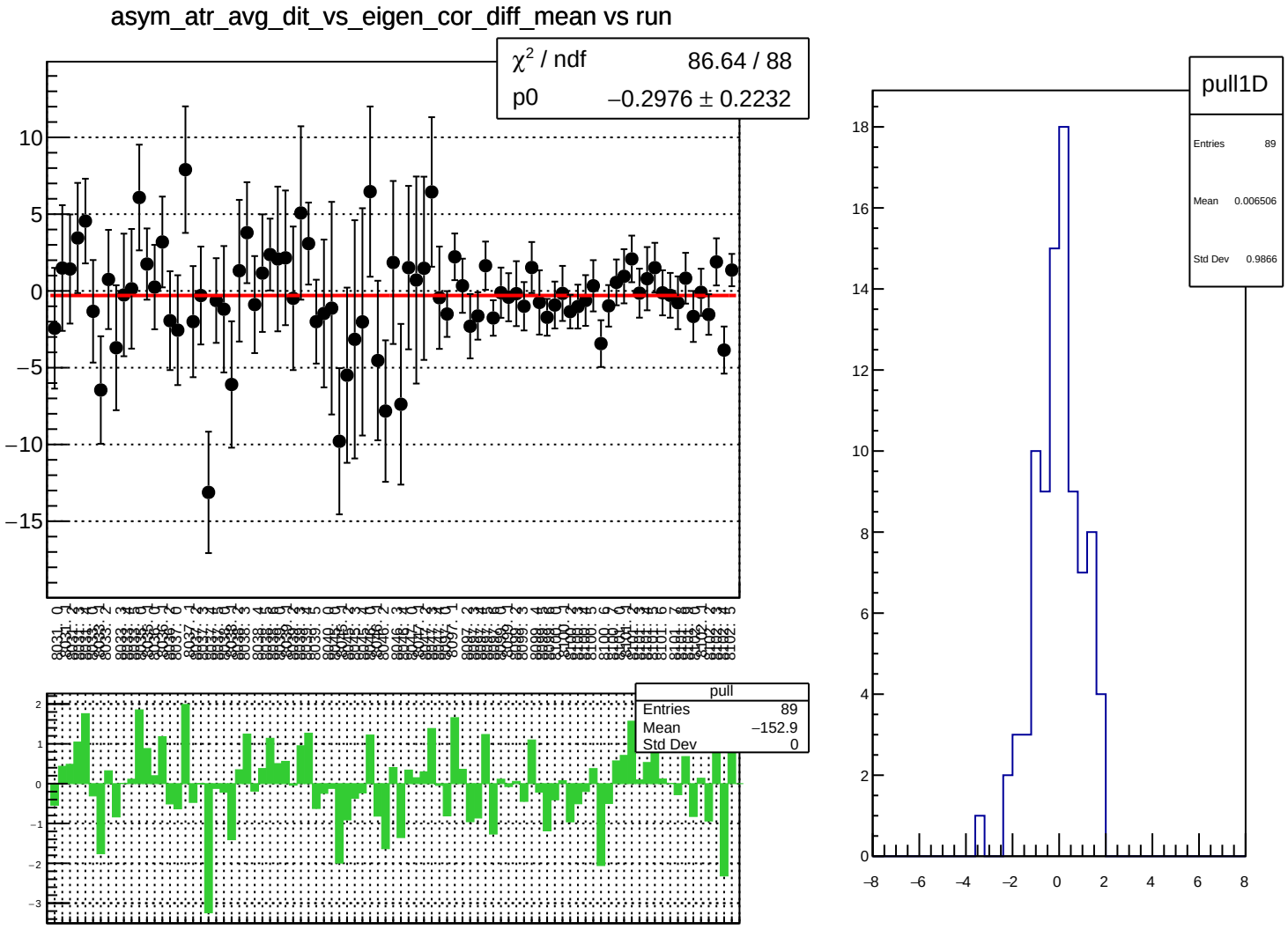

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 96.85 / 88
p0 6.141e−13 ± 8.264e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 89
Mean 75.84
Std Dev 16.22
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.1225
Std Dev 1.036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

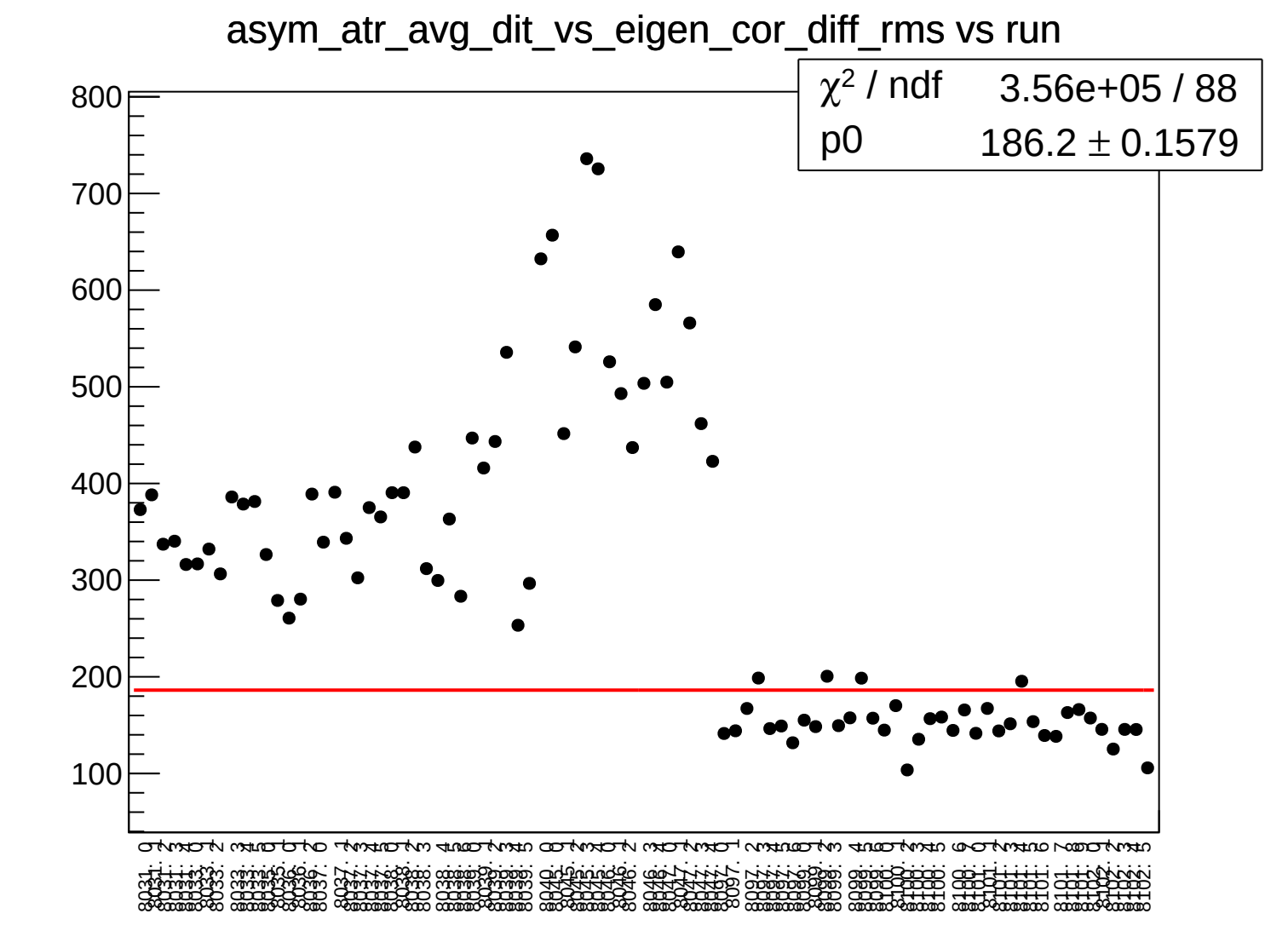

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.818e+05 / 88
p0 5.113e−10 ± 5.844e−13
1
0.8
0.6
0.4
0.2
0

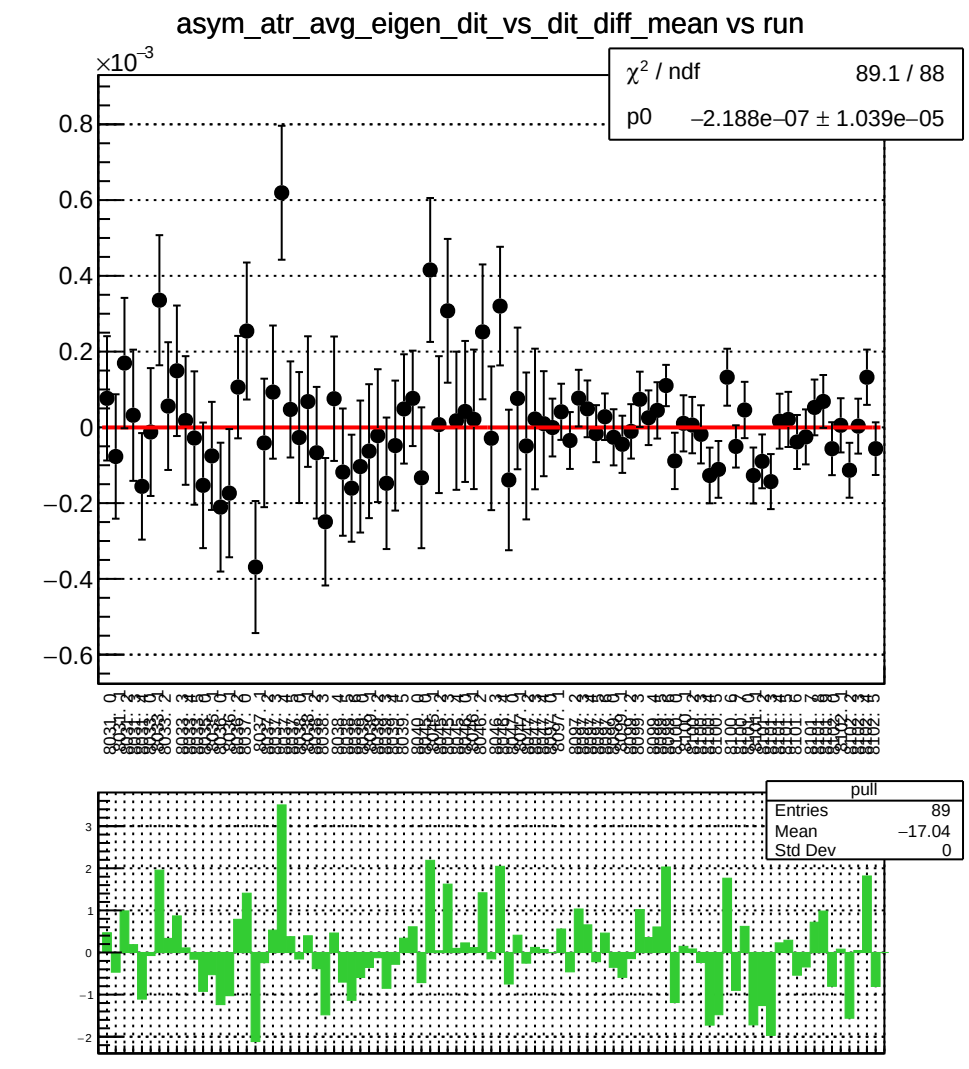

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 86.64 / 88
p0 −0.2976 ± 0.2232
pull
Entries 89
Mean −152.9
Std Dev 0

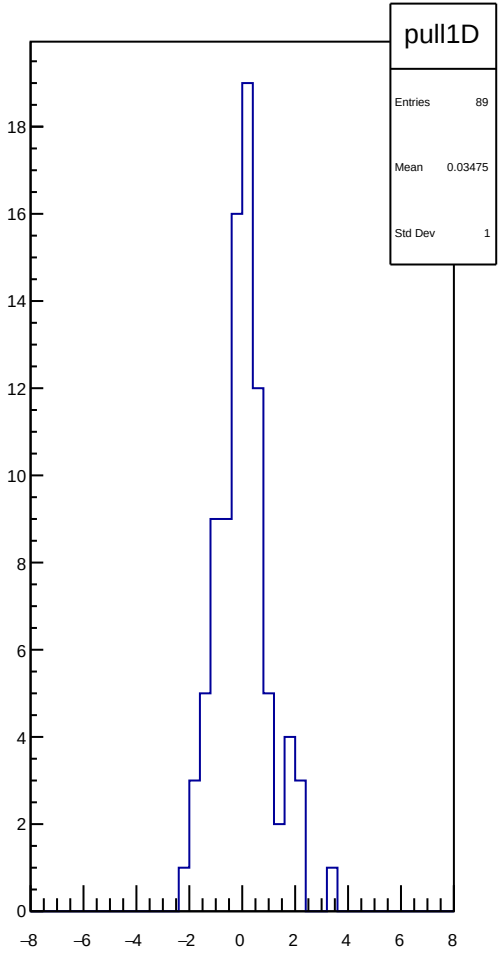

pull1D
Entries 89
Mean 0.006506
Std Dev 0.9866

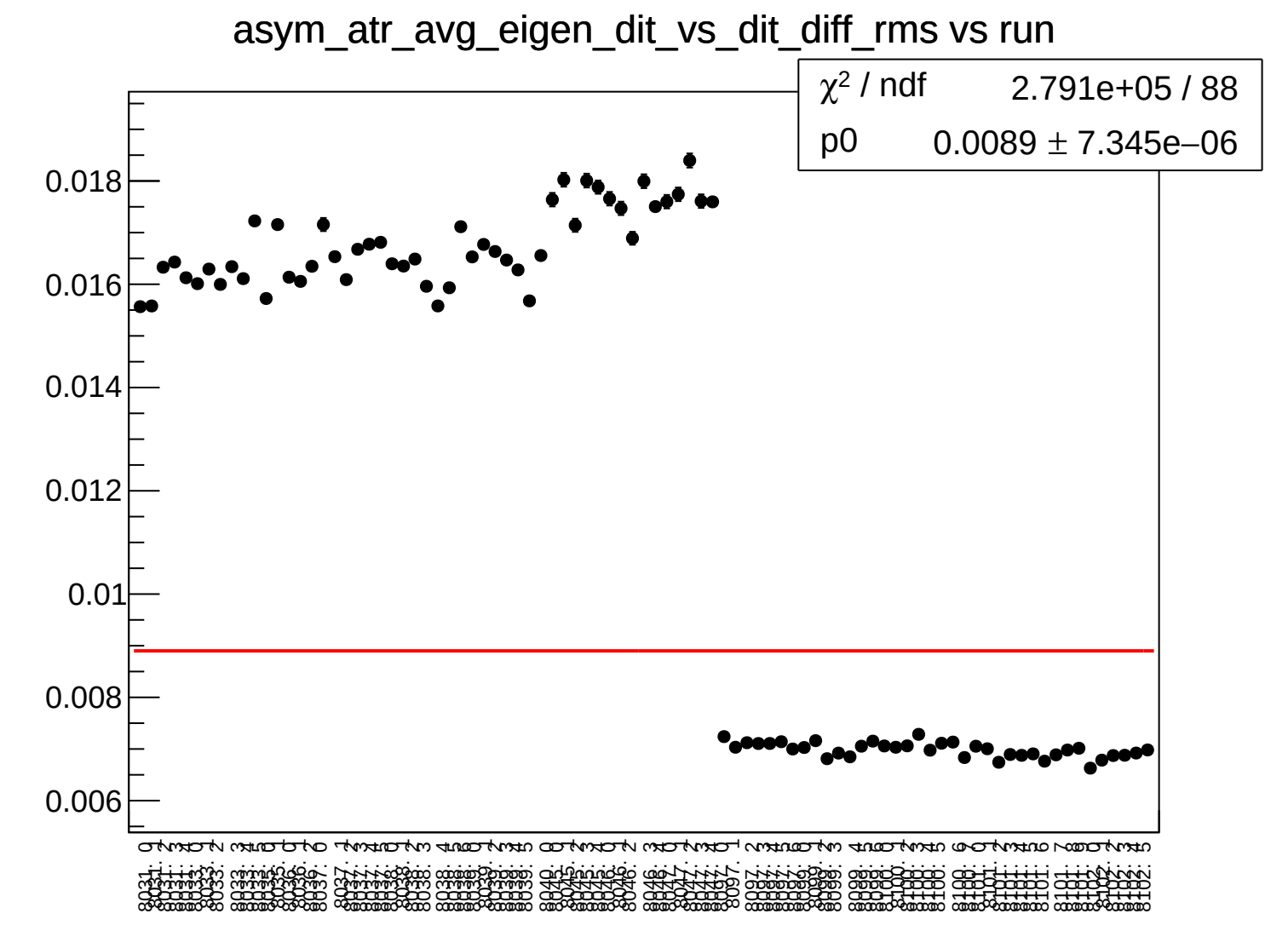

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.56e+05 / 88
p0 186.2 ± 0.1579
800
700
600
500
400
300
200
100

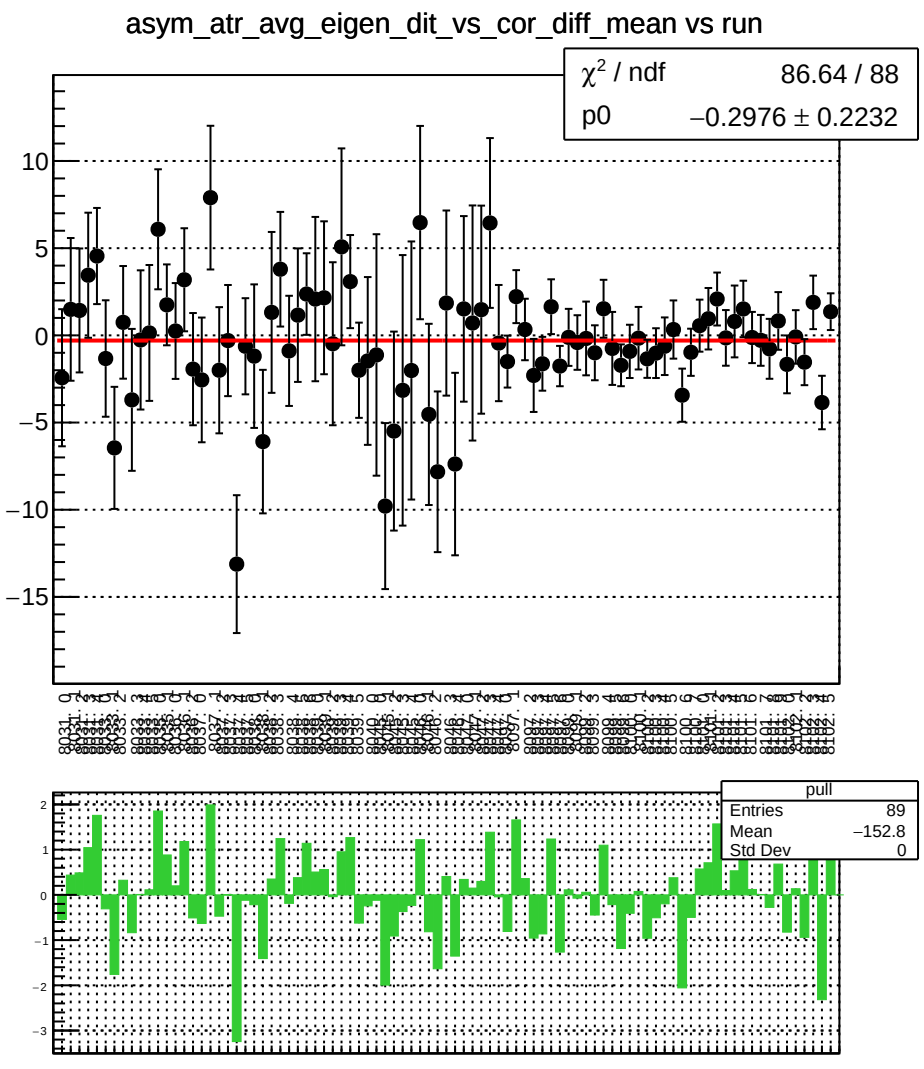

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.64 / 88
p0 −0.2976 ± 0.2232
pull
Entries 89
Mean −152.9
Std Dev 0
pull1D
Entries 89
Mean 0.006506
Std Dev 0.9866

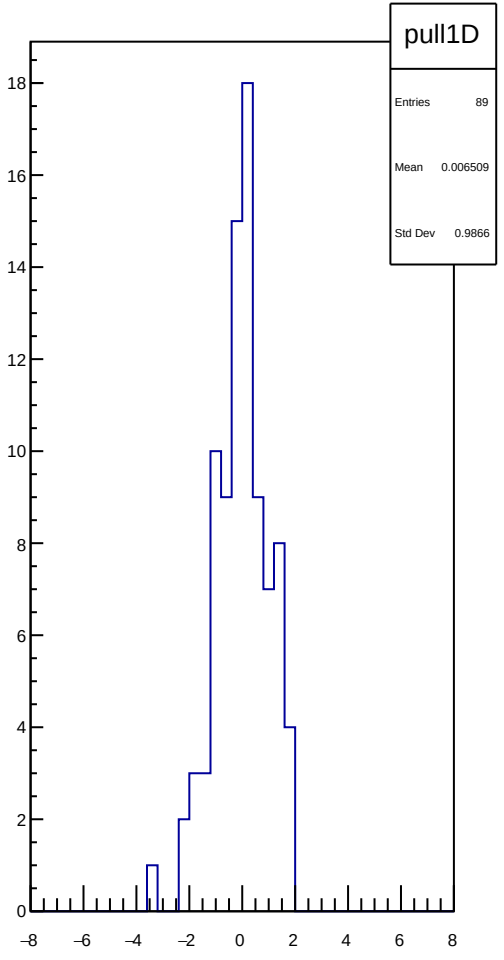

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.56e+05 / 88
p0 186.2 ± 0.1579
800
700
600
500
400
300
200
100

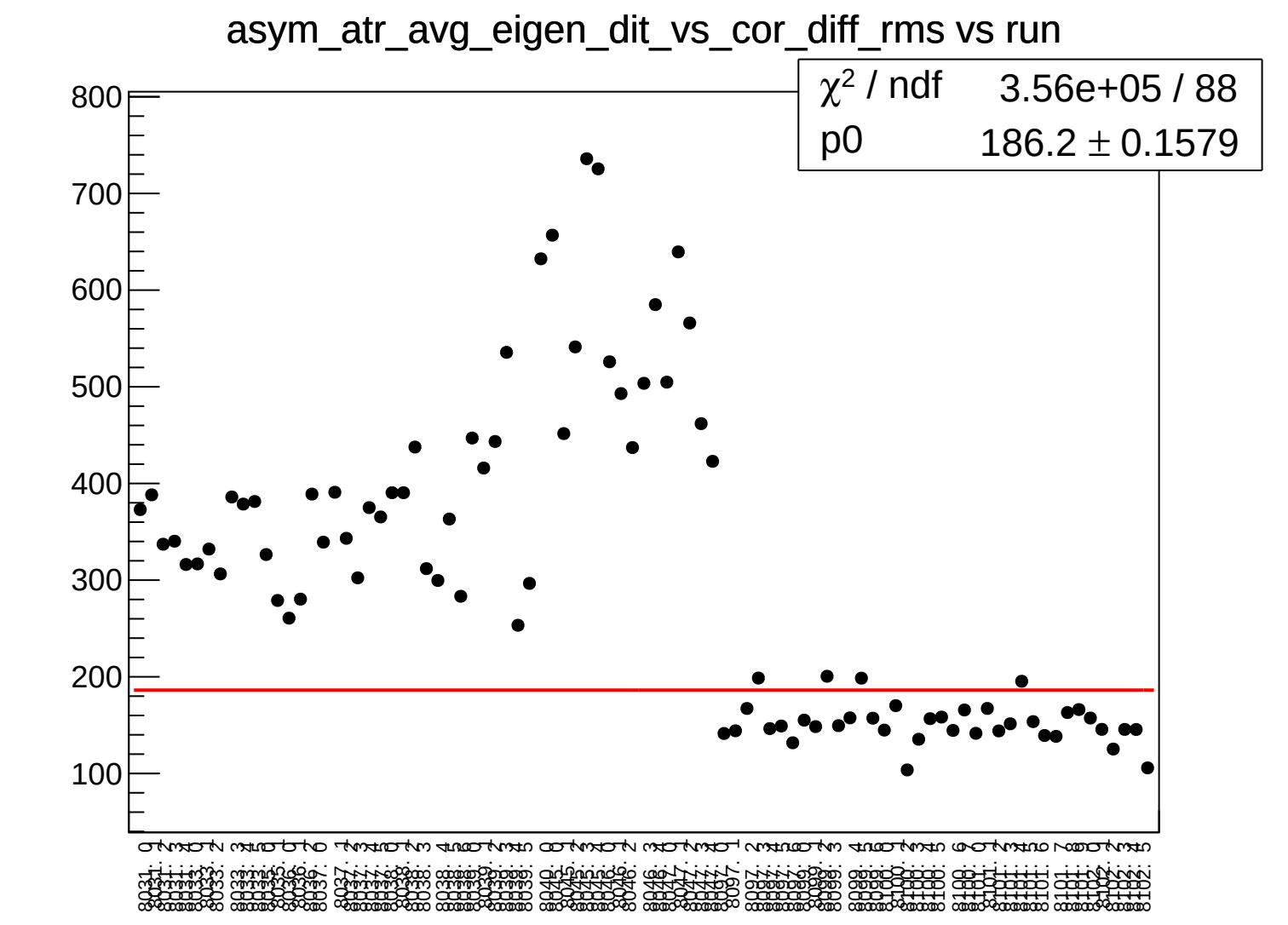

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.1 / 88
p0 −2.188e−07 ± 1.039e−05
pull
Entries 89
Mean −17.04
Std Dev 0

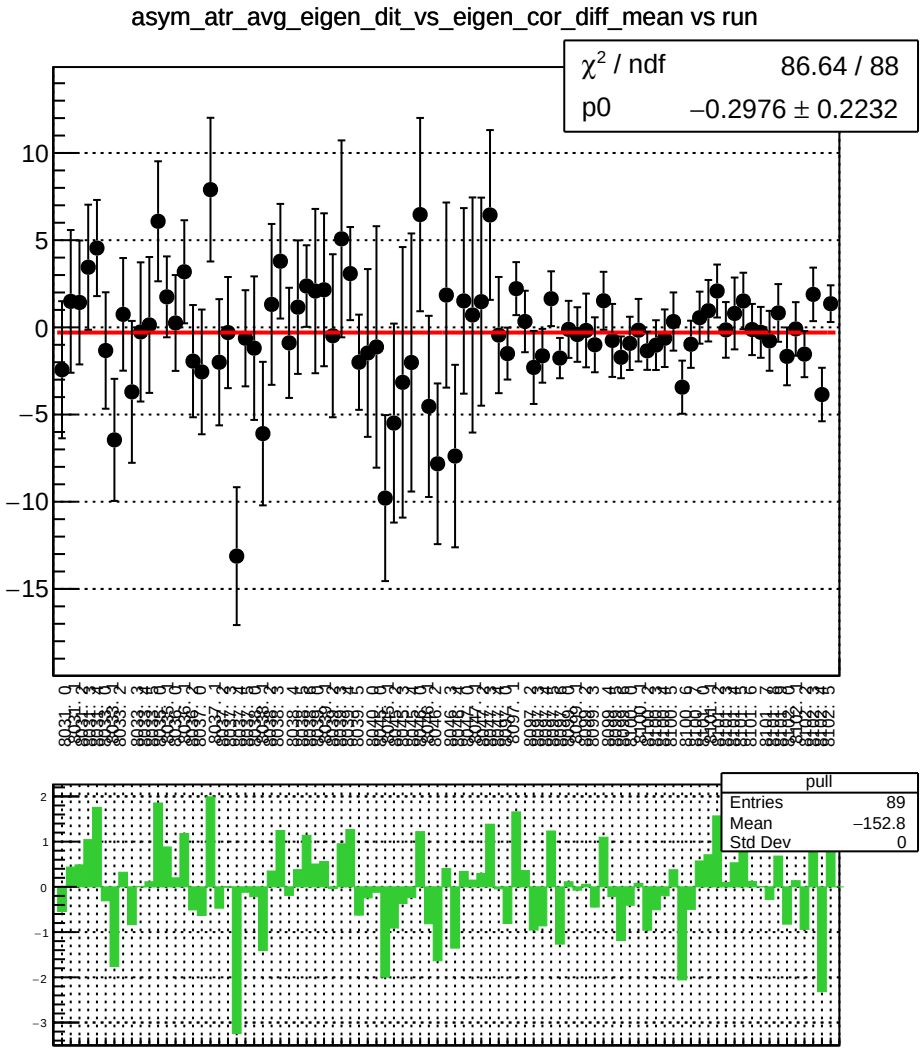

pull1D
Entries 89
Mean 0.03475
Std Dev 1

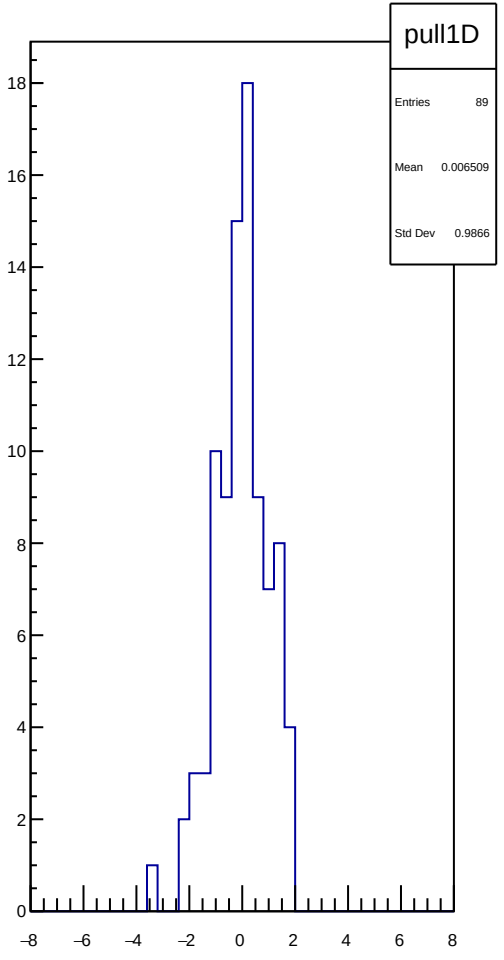

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.791e+05 / 88
p0 0.0089 ± 7.345e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006

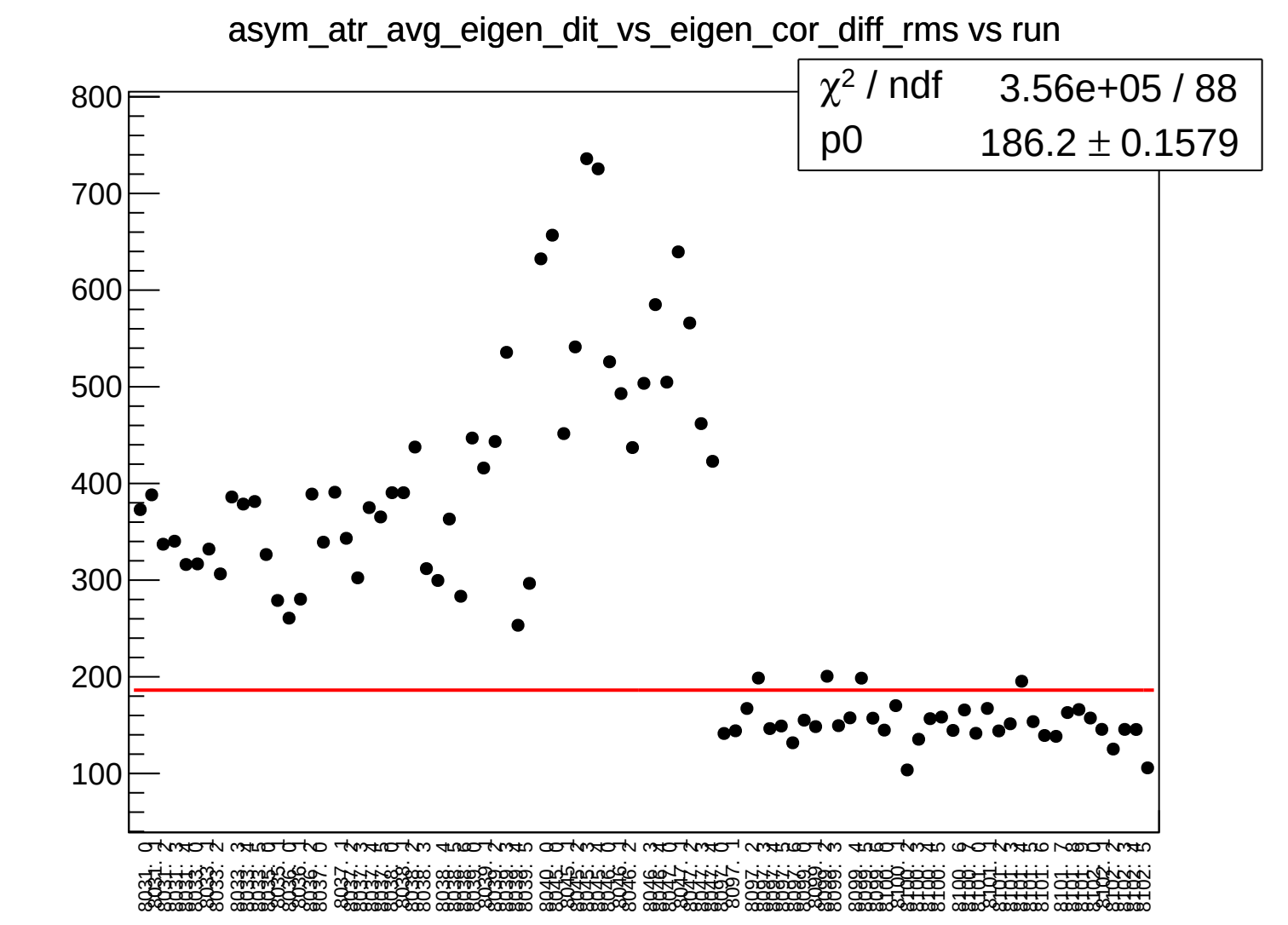

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.64 / 88
p0 −0.2976 ± 0.2232
pull
Entries 89
Mean −152.8
Std Dev 0

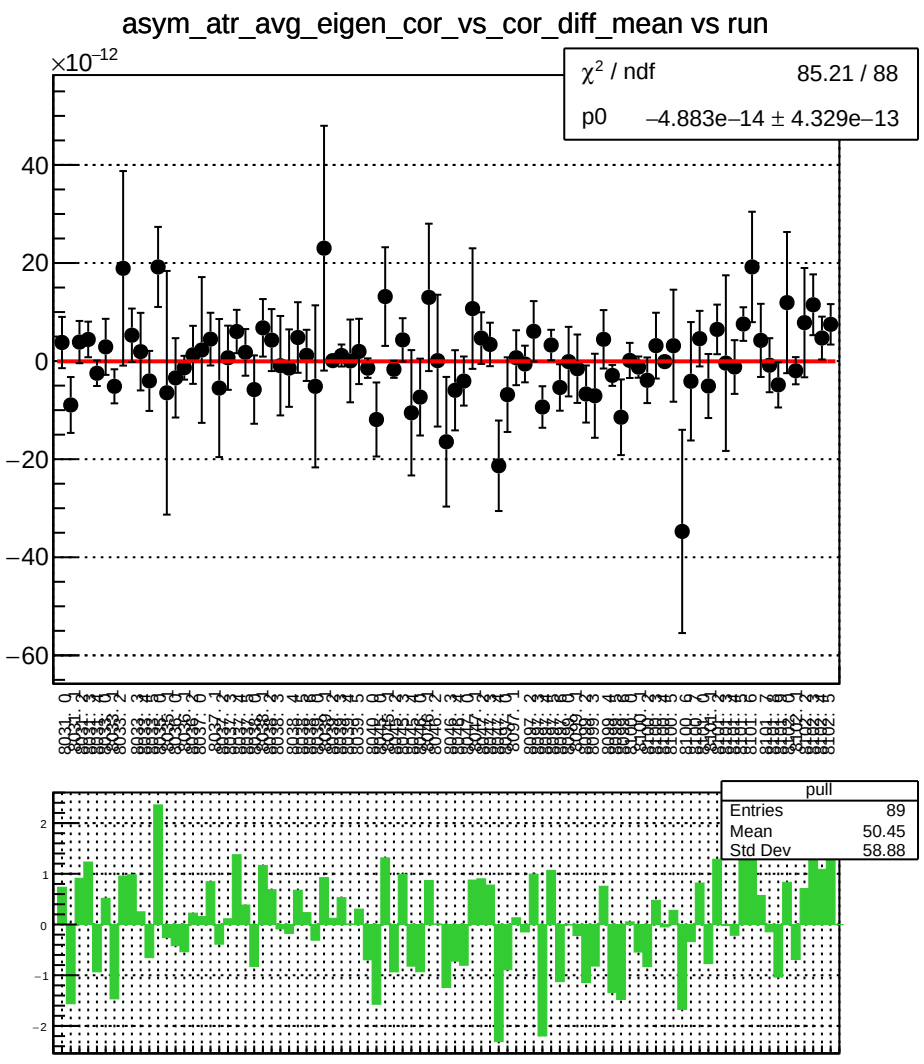

pull1D
Entries 89
Mean 0.006509
Std Dev 0.9866

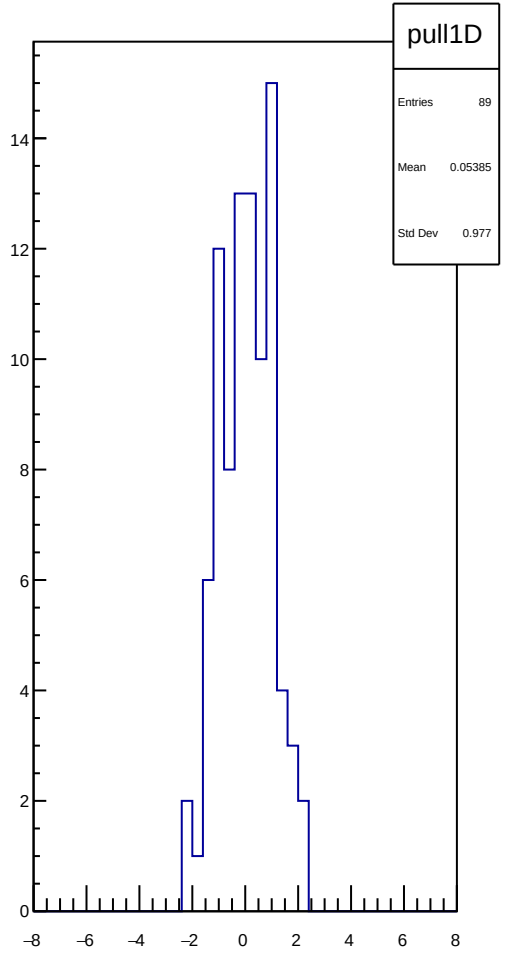

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.56e+05 / 88
p0 186.2 ± 0.1579
800
700
600
500
400
300
200
100

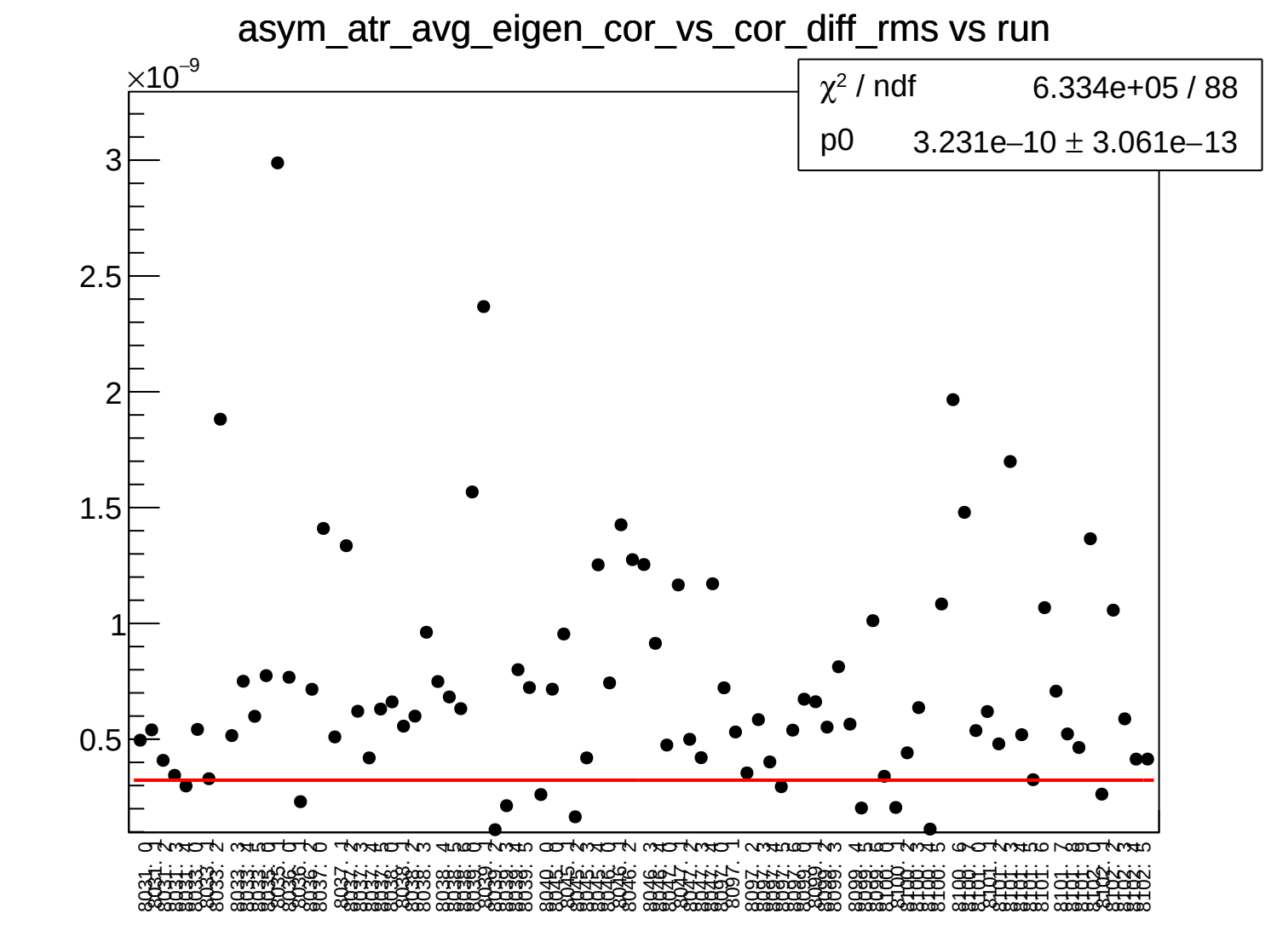

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.64 / 88
p0 −0.2976 ± 0.2232
pull
Entries 89
Mean −152.8
Std Dev 0

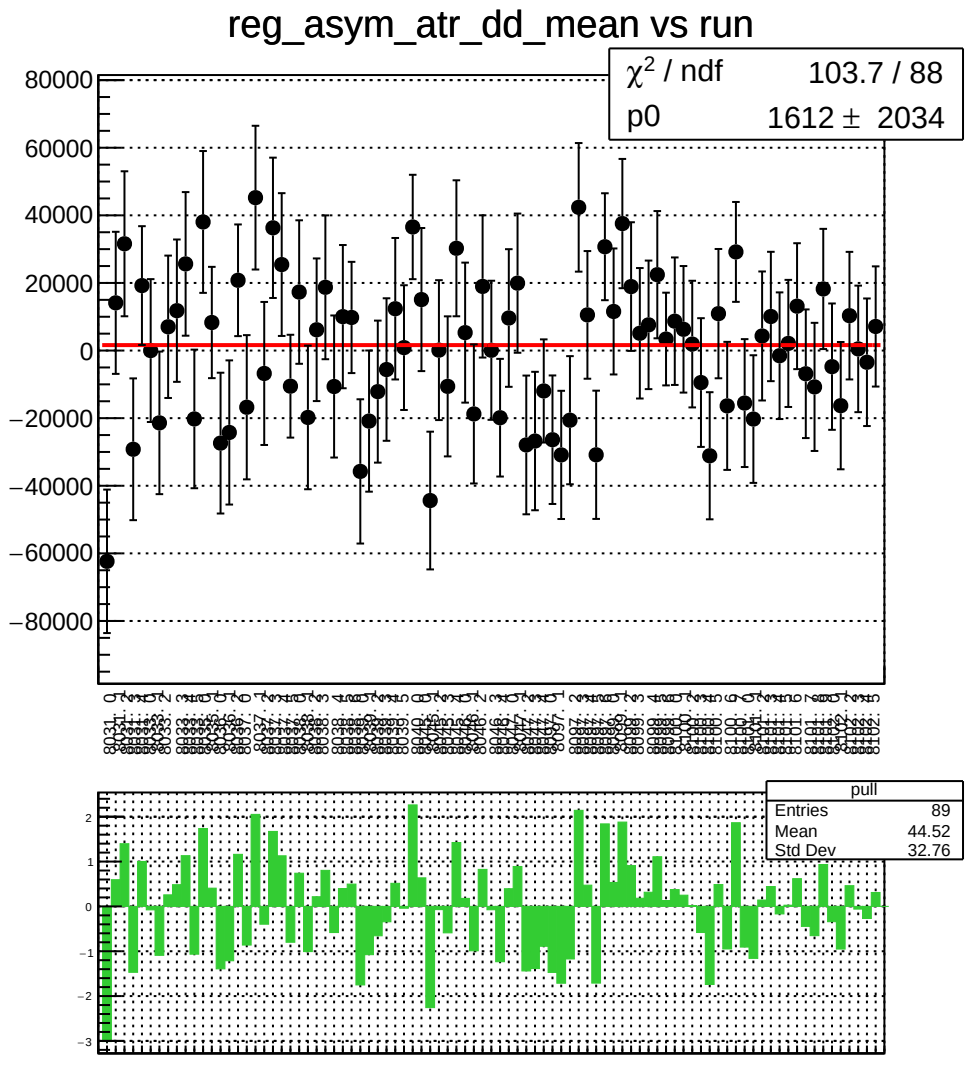

pull1D
Entries 89
Mean 0.006509
Std Dev 0.9866

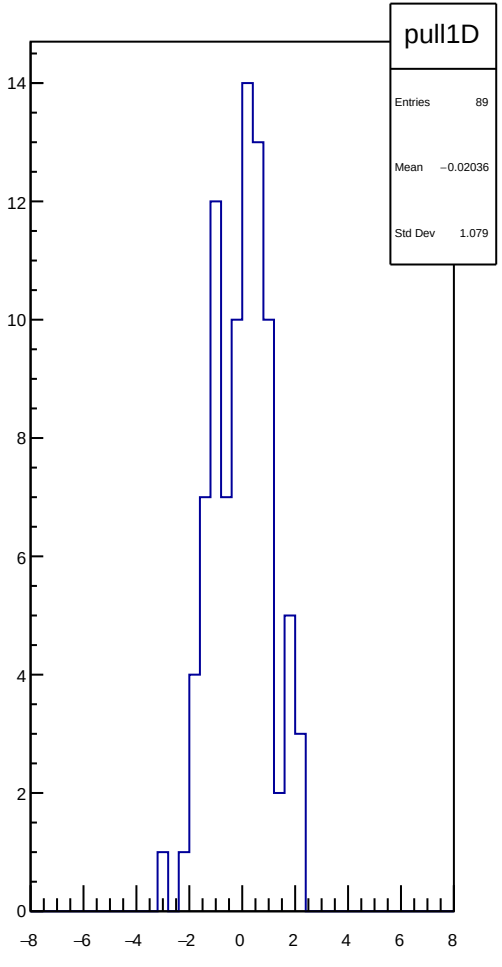

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.56e+05 / 88
p0 186.2 ± 0.1579
800
700
600
500
400
300
200
100

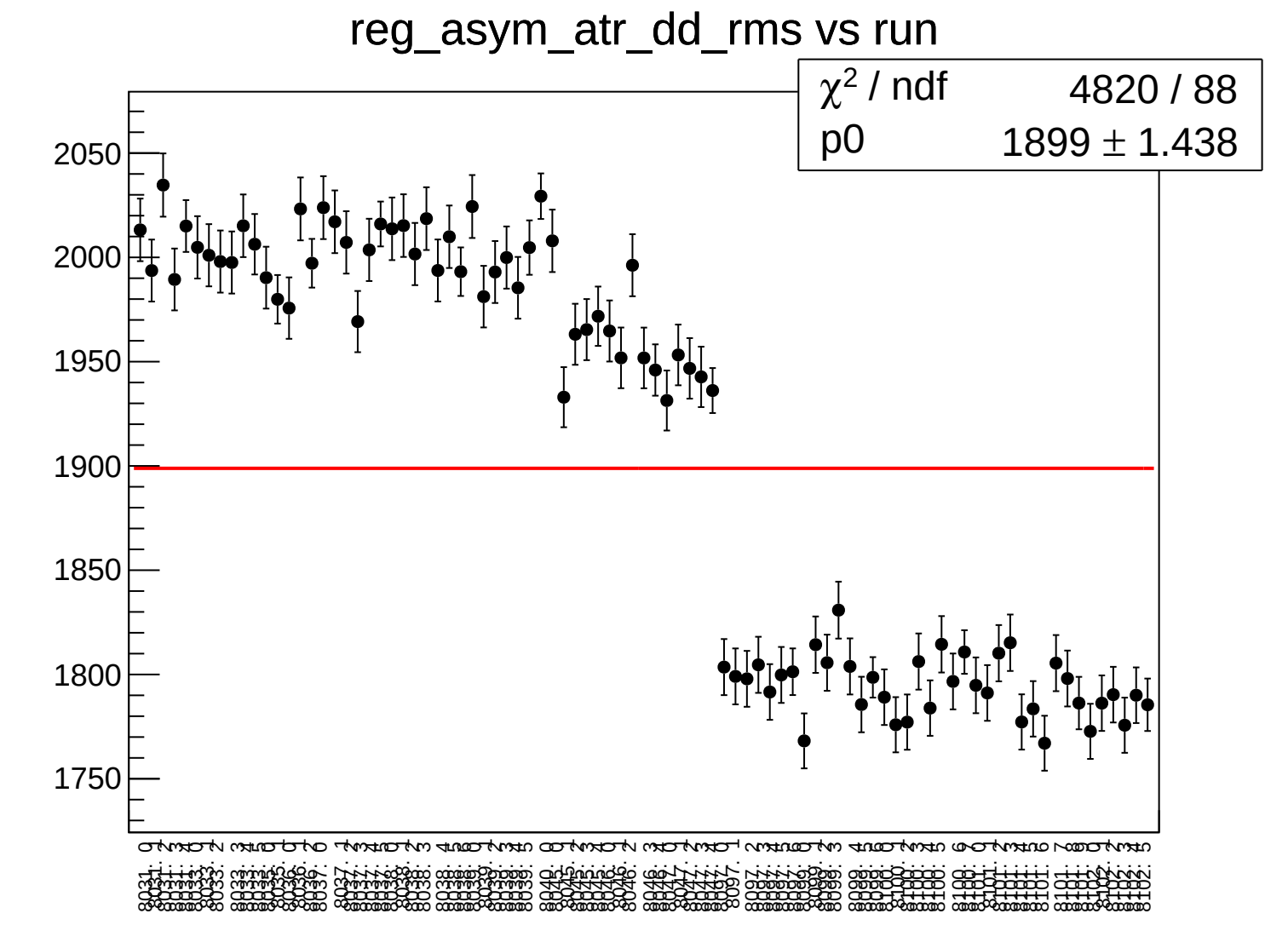

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.21 / 88
p0 −4.883e−14 ± 4.329e−13
40
20
0
−20
−40
−60
pull
Entries 89
Mean 50.45
Std Dev 58.88
2
1
0
−1
−2

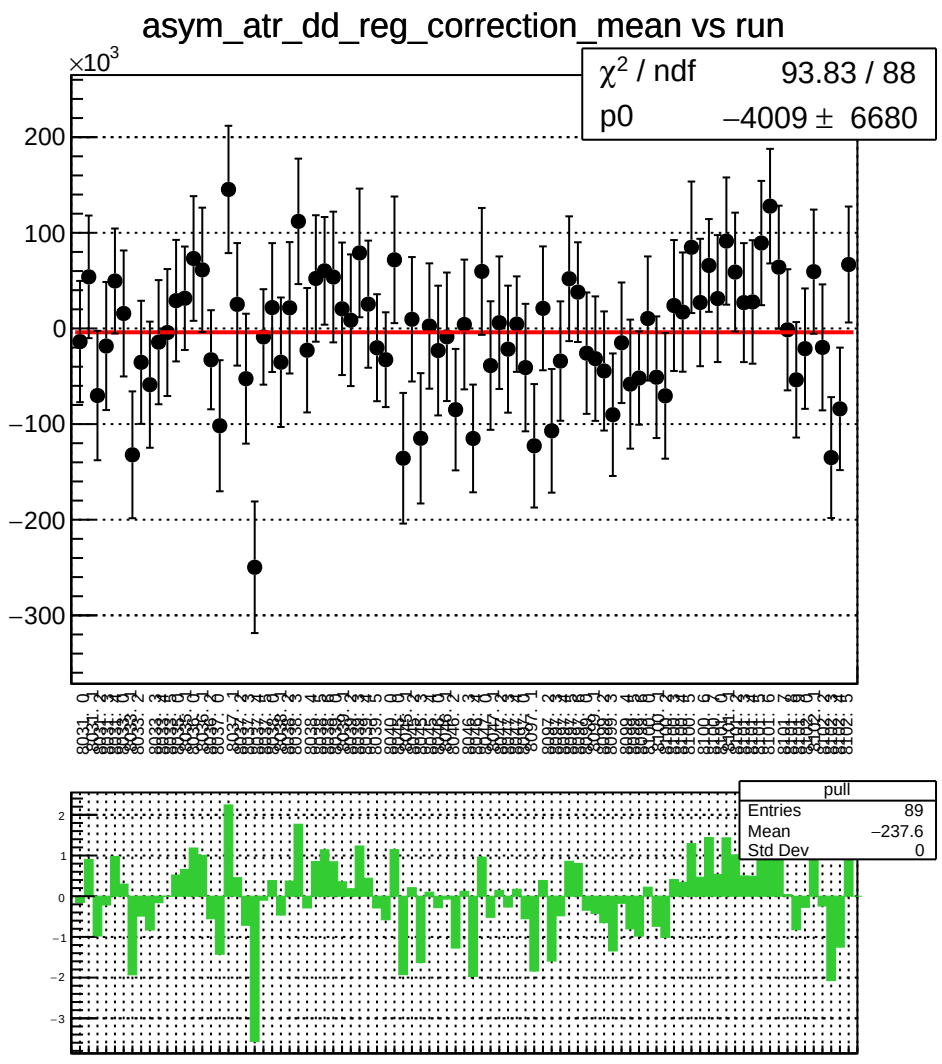

pull1D
Entries 89
Mean 0.05385
Std Dev 0.977
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

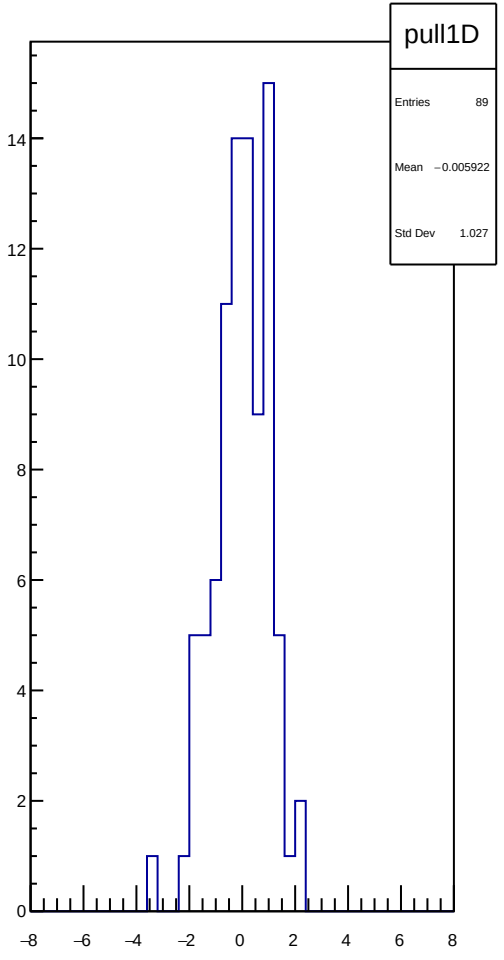

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.334e+05 / 88
p0 3.231e−10 ± 3.061e−13
3
2.5
2
1.5
1
0.5

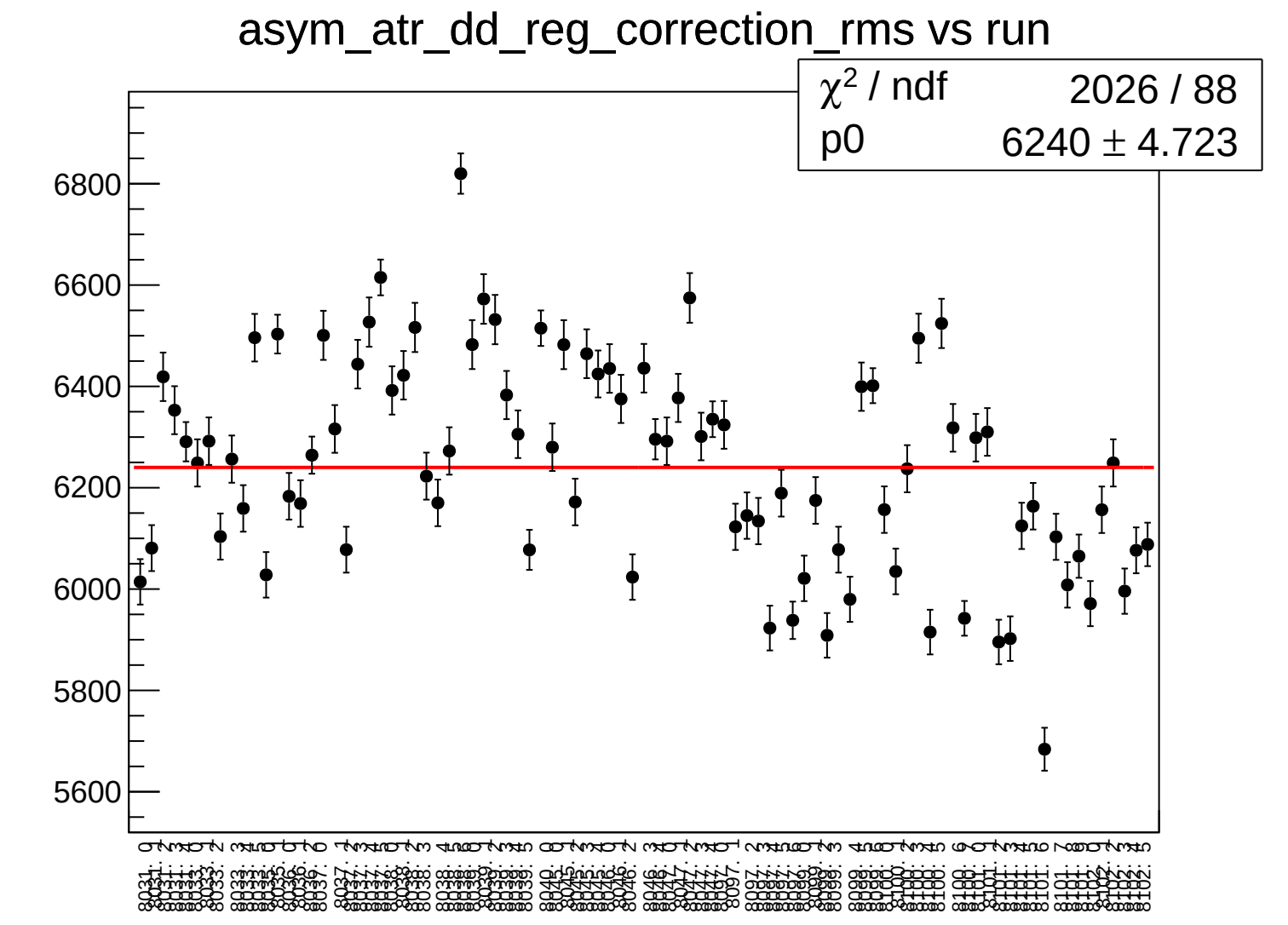

reg_asym_atr_dd_mean vs run
$\chi^2$ / ndf 103.7 / 88
p0 1612 ± 2034
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 44.52
Std Dev 32.76
2
1
0
−1
−2
−3

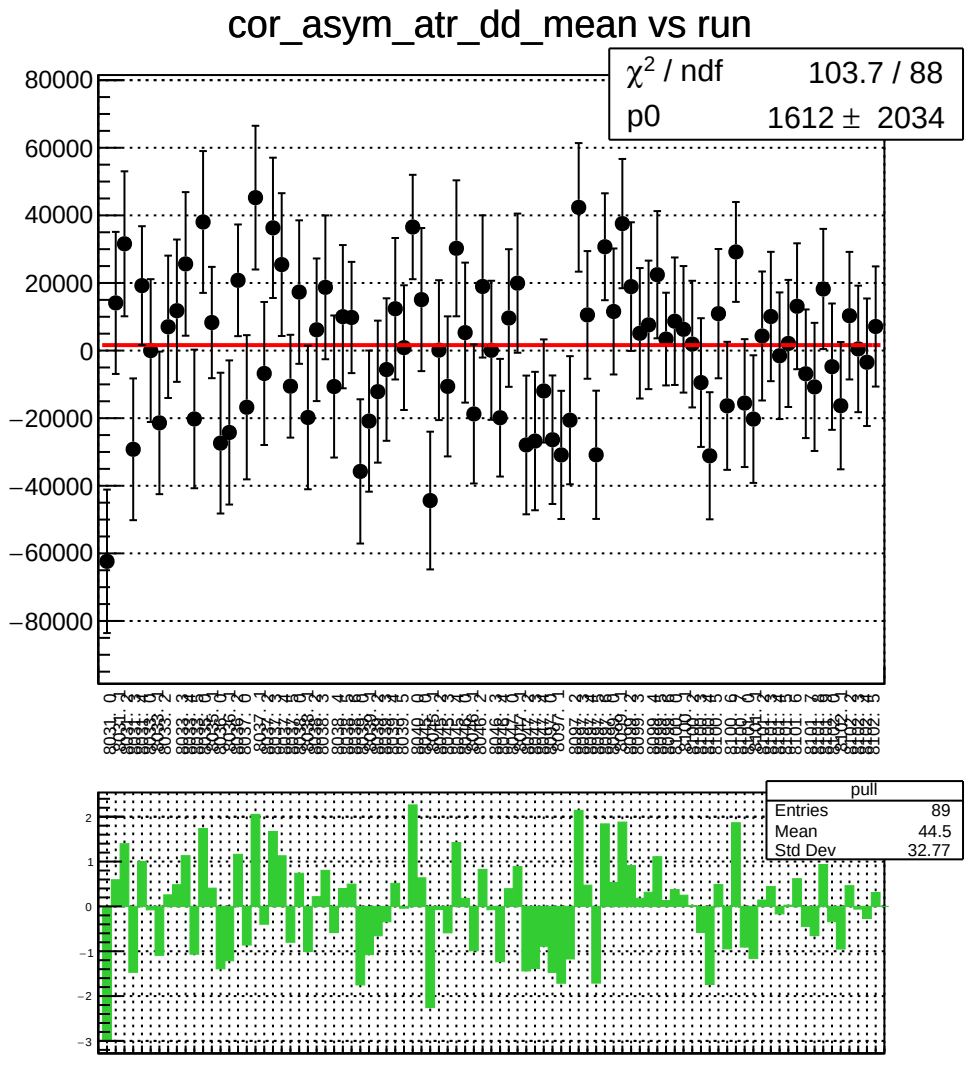

pull1D
Entries 89
Mean −0.02036
Std Dev 1.079
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

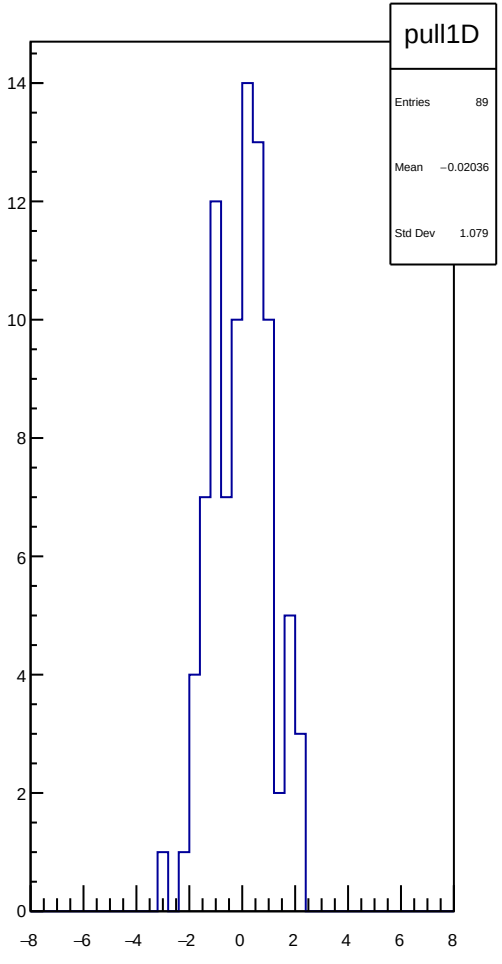

reg_asym_atr_dd_rms vs run
χ² / ndf 4820 / 88
p0 1899 ± 1.438
2050
2000
1950
1900
1850
1800
1750

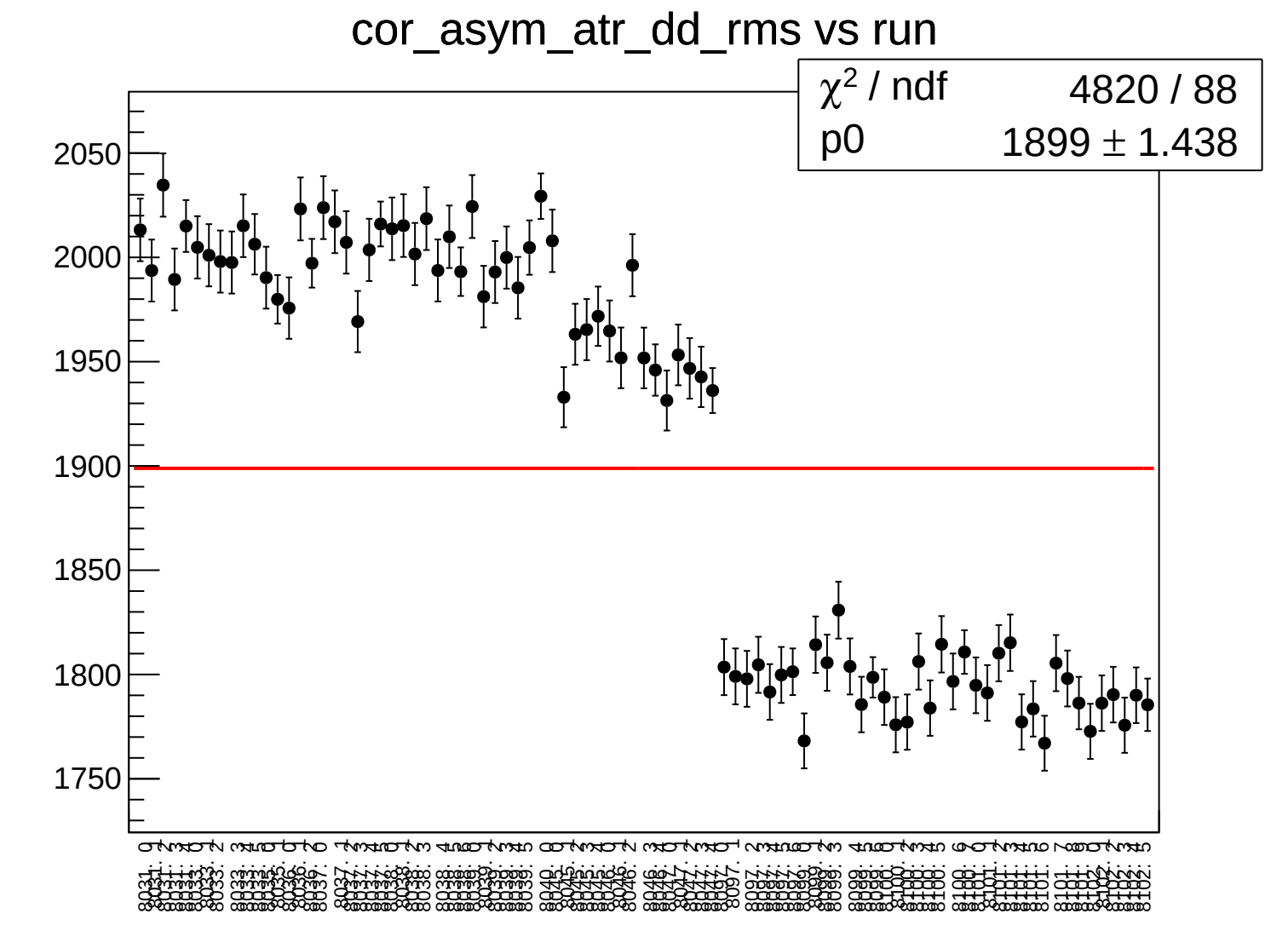

asym_atr_dd_reg_correction_mean vs run
×10^3
χ² / ndf 93.83 / 88
p0 −4009 ± 6680
200
100
0
−100
−200
−300
pull
Entries 89
Mean −237.6
Std Dev 0
2
1
0
−1
−2
−3

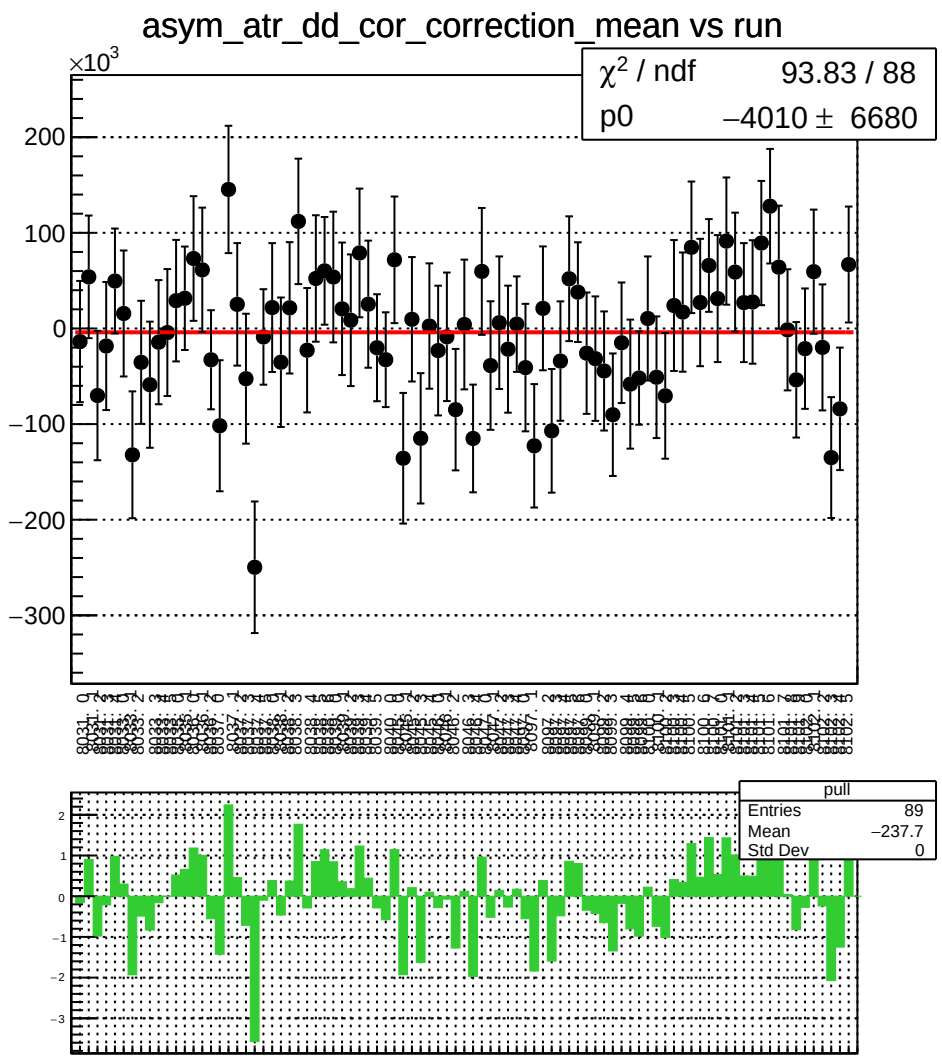

pull1D
Entries 89
Mean −0.005922
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

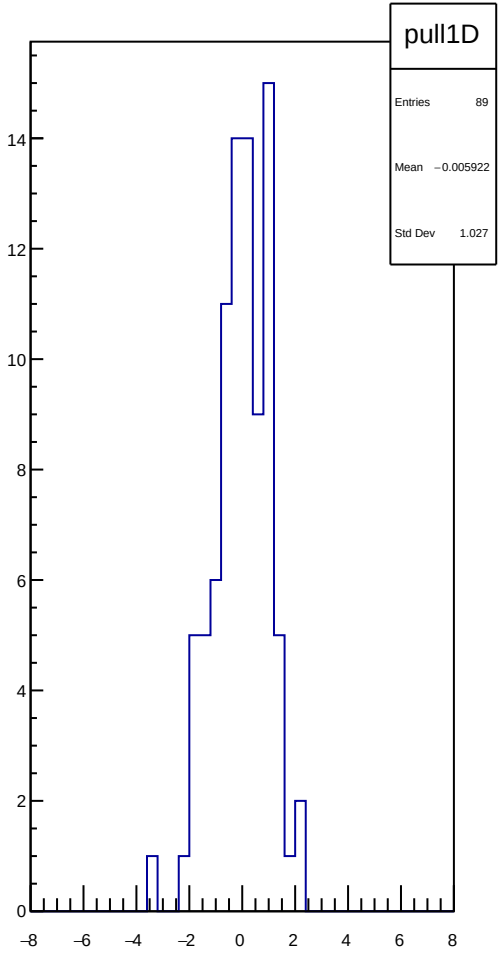

asym_atr_dd_reg_correction_rms vs run
χ² / ndf 2026 / 88
p0 6240 ± 4.723
6800
6600
6400
6200
6000
5800
5600

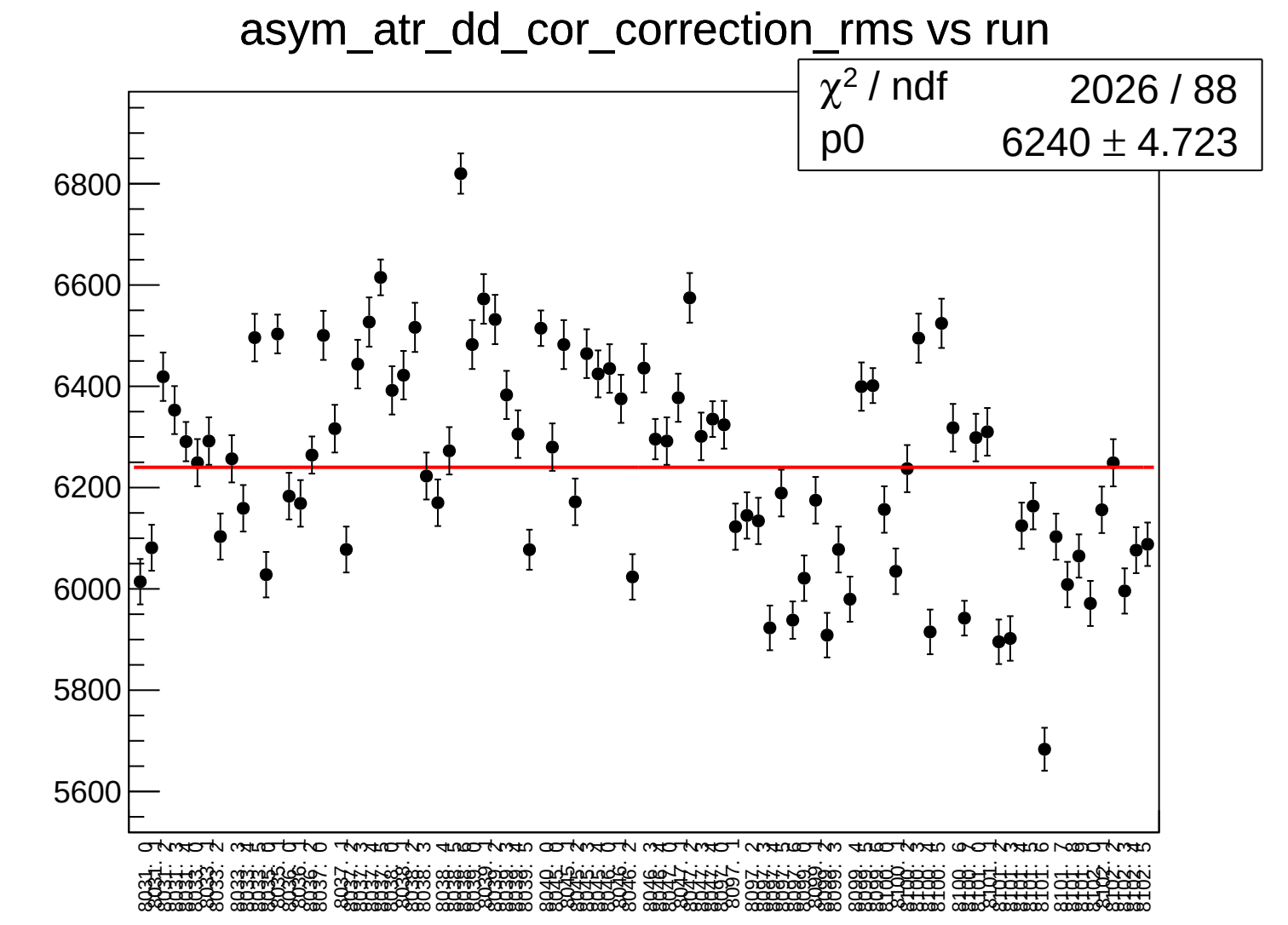

cor_asym_atr_dd_mean vs run
χ² / ndf 103.7 / 88
p0 1612 ± 2034
pull
Entries 89
Mean 44.5
Std Dev 32.77

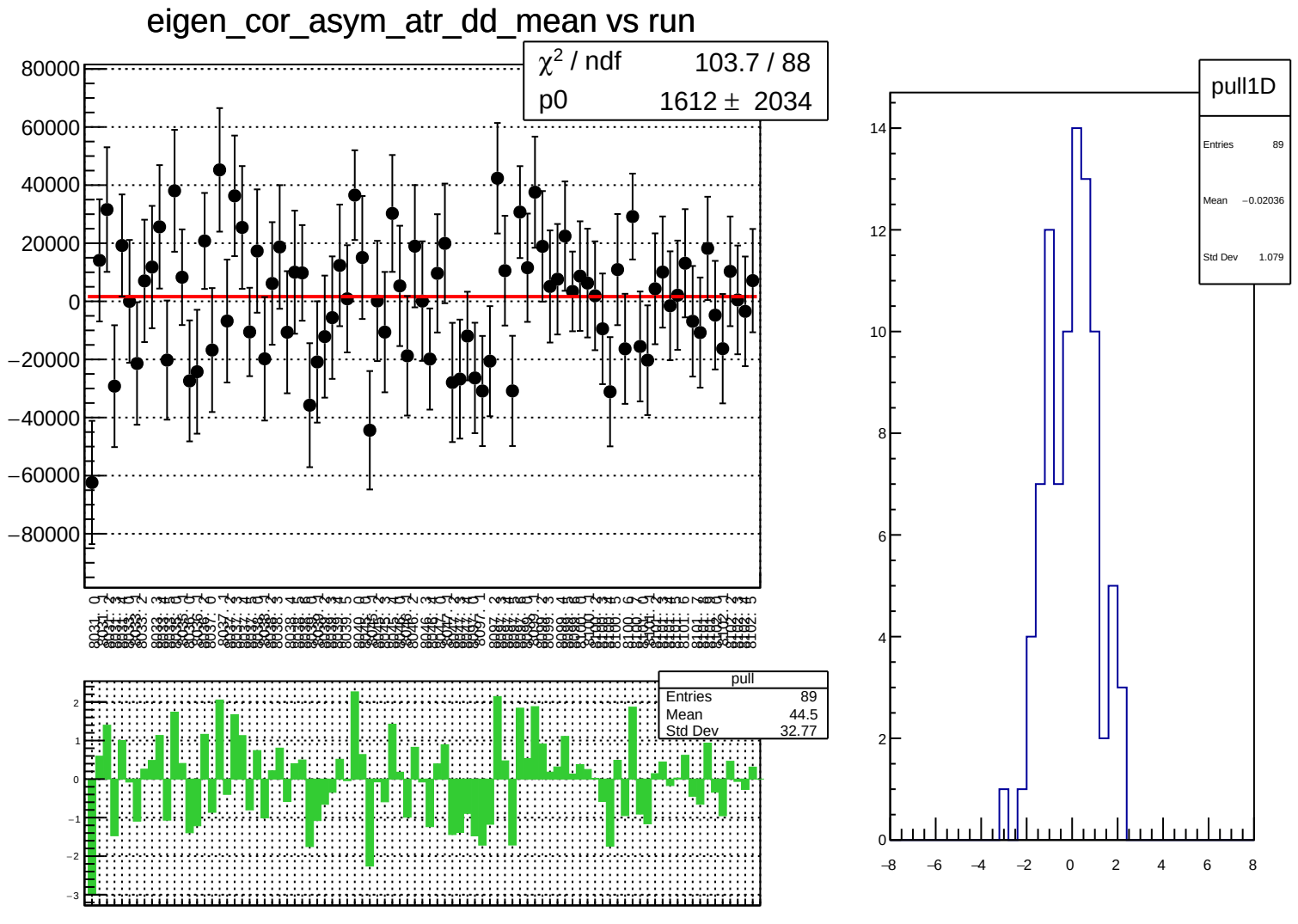

pull1D
Entries 89
Mean −0.02036
Std Dev 1.079

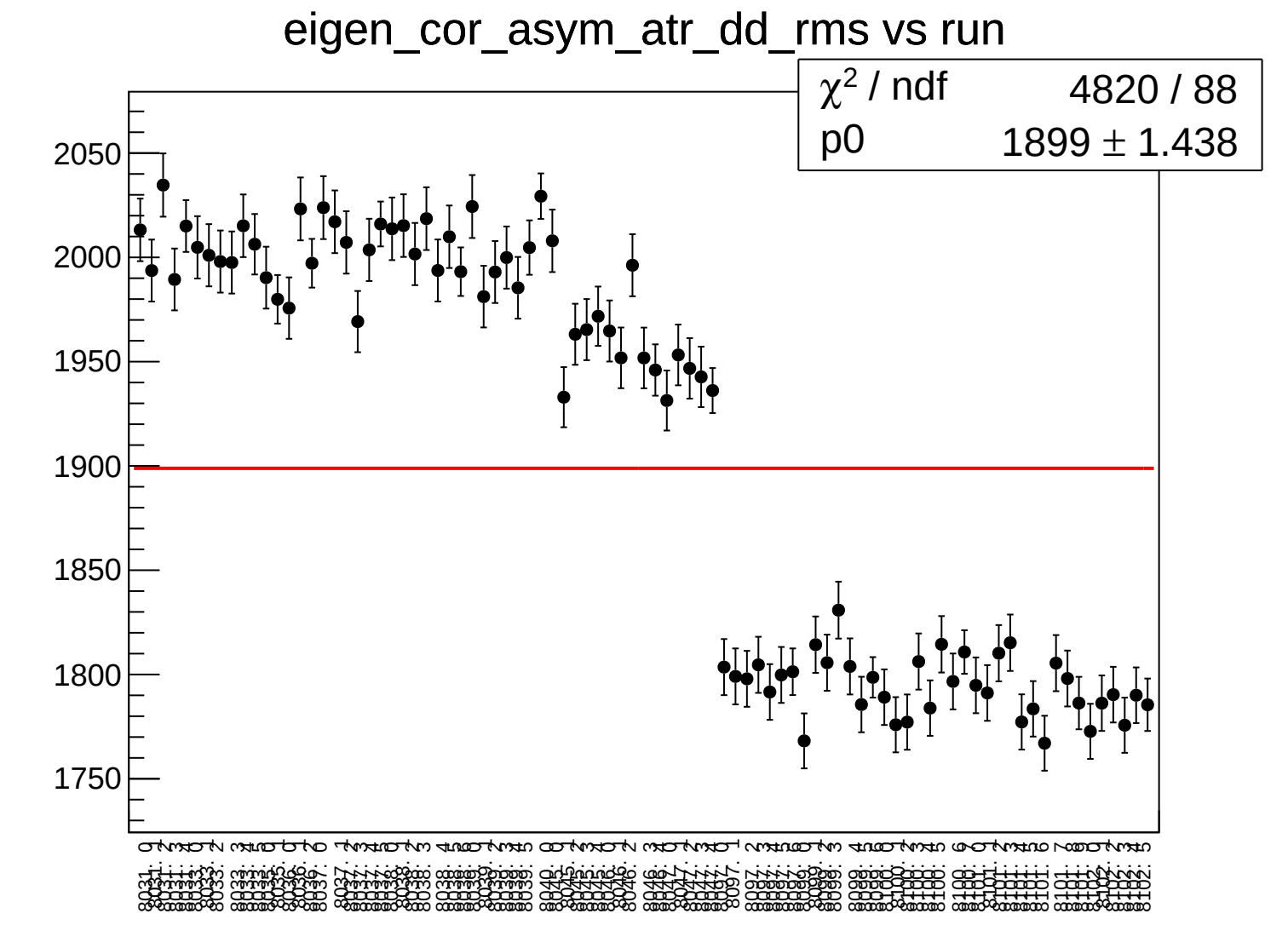

cor_asym_atr_dd_rms vs run
χ² / ndf 4820 / 88
p0 1899 ± 1.438
2050
2000
1950
1900
1850
1800
1750

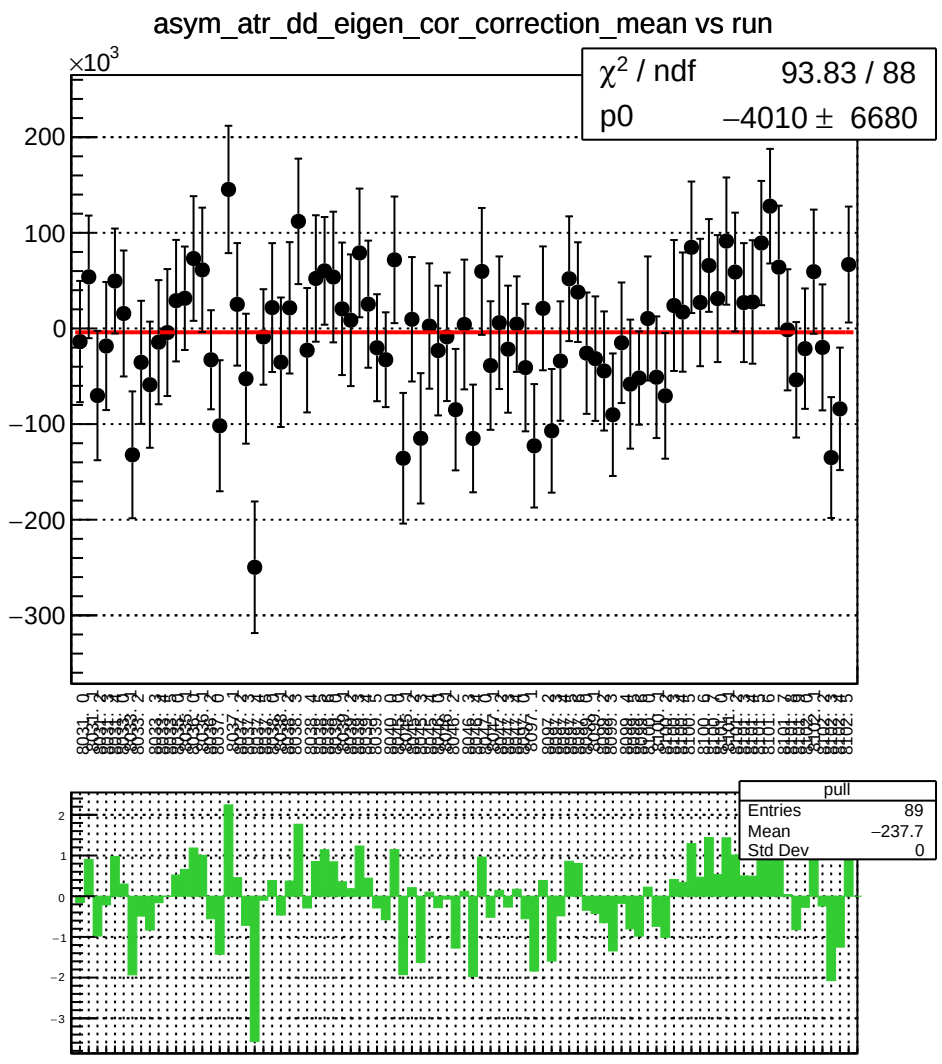

asym_atr_dd_cor_correction_mean vs run
×10^3
χ² / ndf 93.83 / 88
p0 −4010 ± 6680
200
100
0
−100
−200
−300
pull
Entries 89
Mean −237.7
Std Dev 0
2
1
0
−1
−2
−3

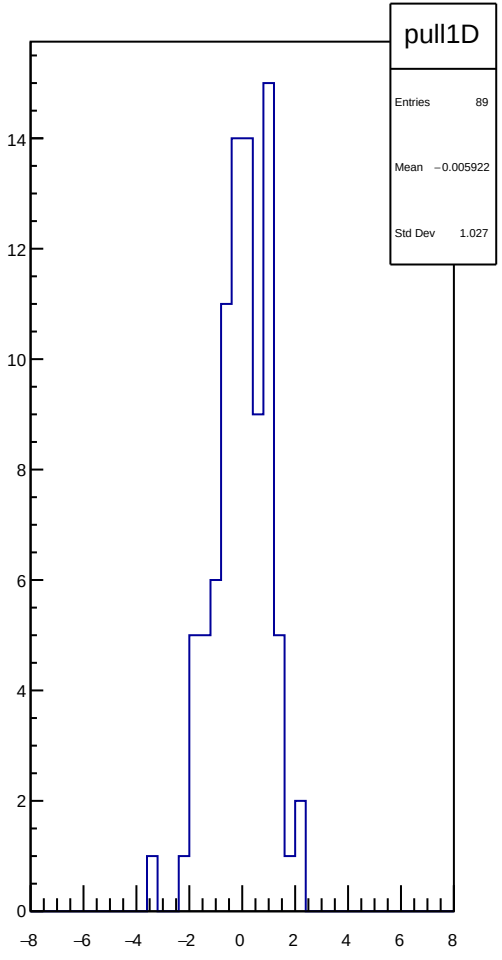

pull1D
Entries 89
Mean −0.005922
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

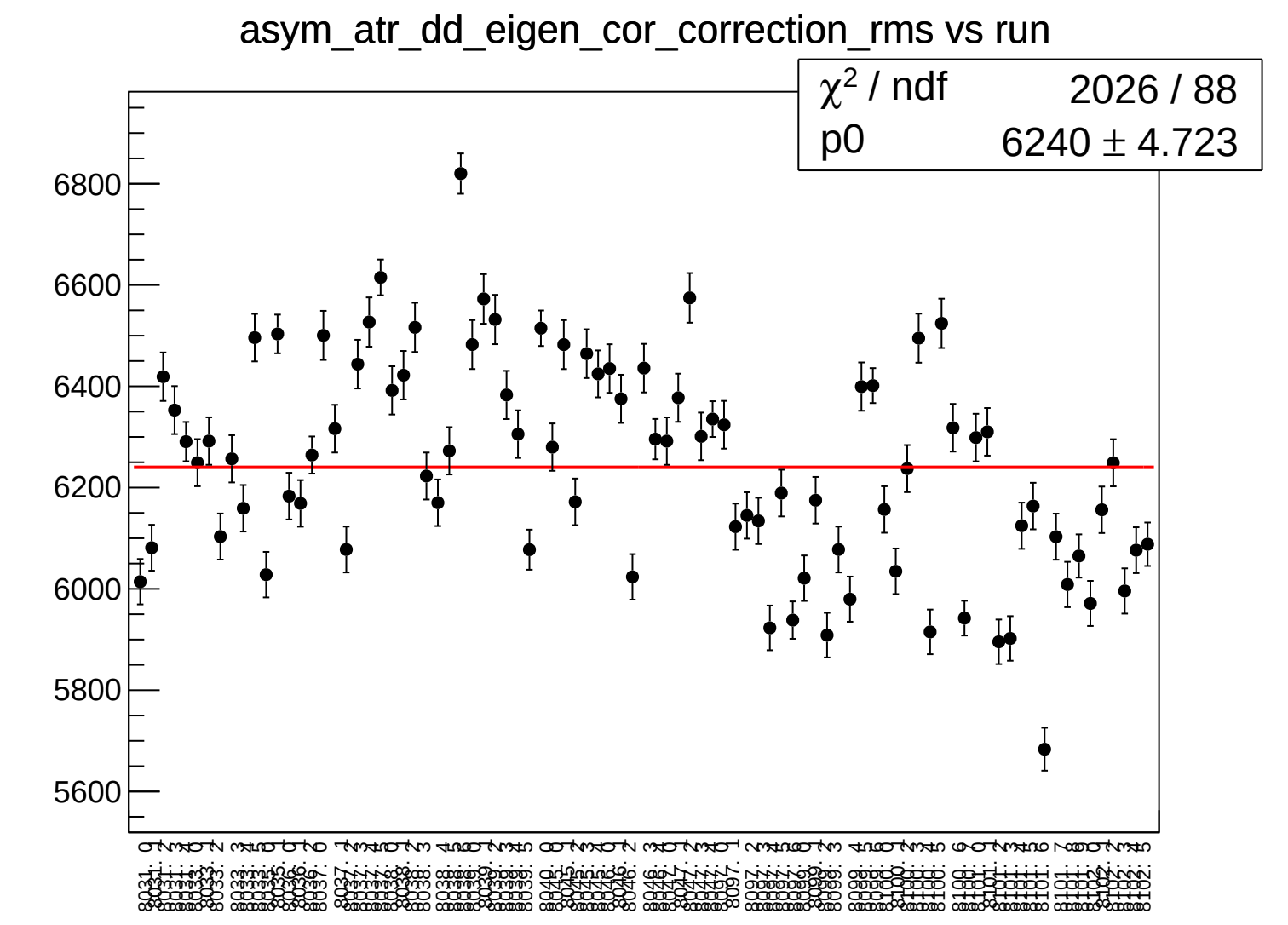

asym_atr_dd_cor_correction_rms vs run
χ² / ndf 2026 / 88
p0 6240 ± 4.723
6800
6600
6400
6200
6000
5800
5600

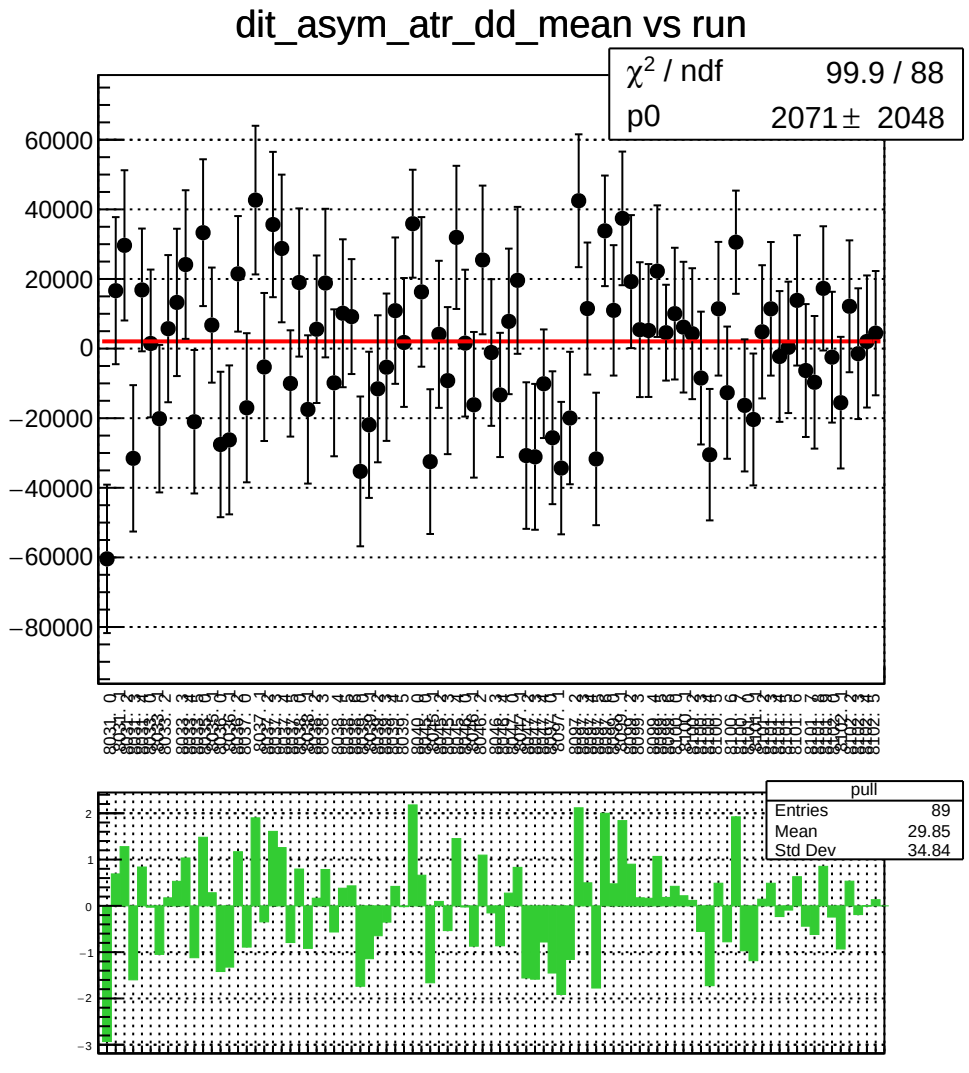

eigen_cor_asym_atr_dd_mean vs run
χ² / ndf 103.7 / 88
p0 1612 ± 2034
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 44.5
Std Dev 32.77
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.02036
Std Dev 1.079
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

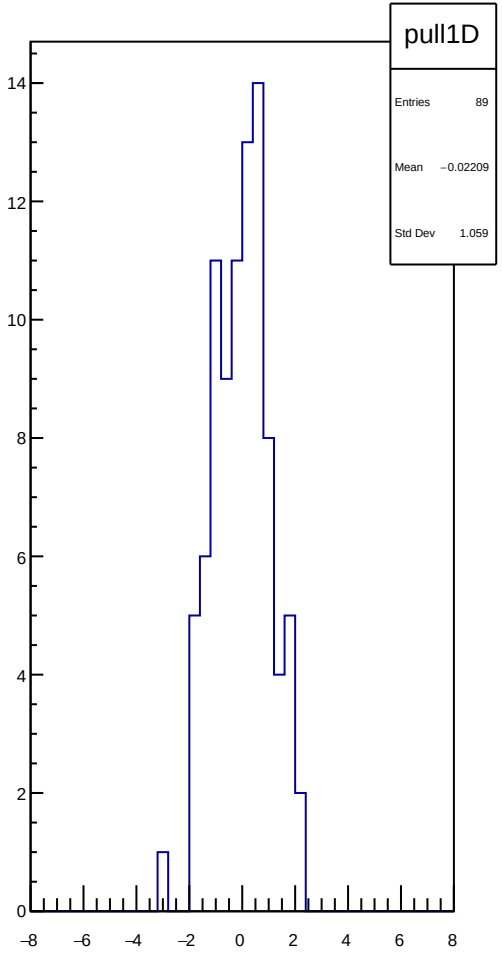

eigen_cor_asym_atr_dd_rms vs run
χ² / ndf 4820 / 88
p0 1899 ± 1.438
2050
2000
1950
1900
1850
1800
1750

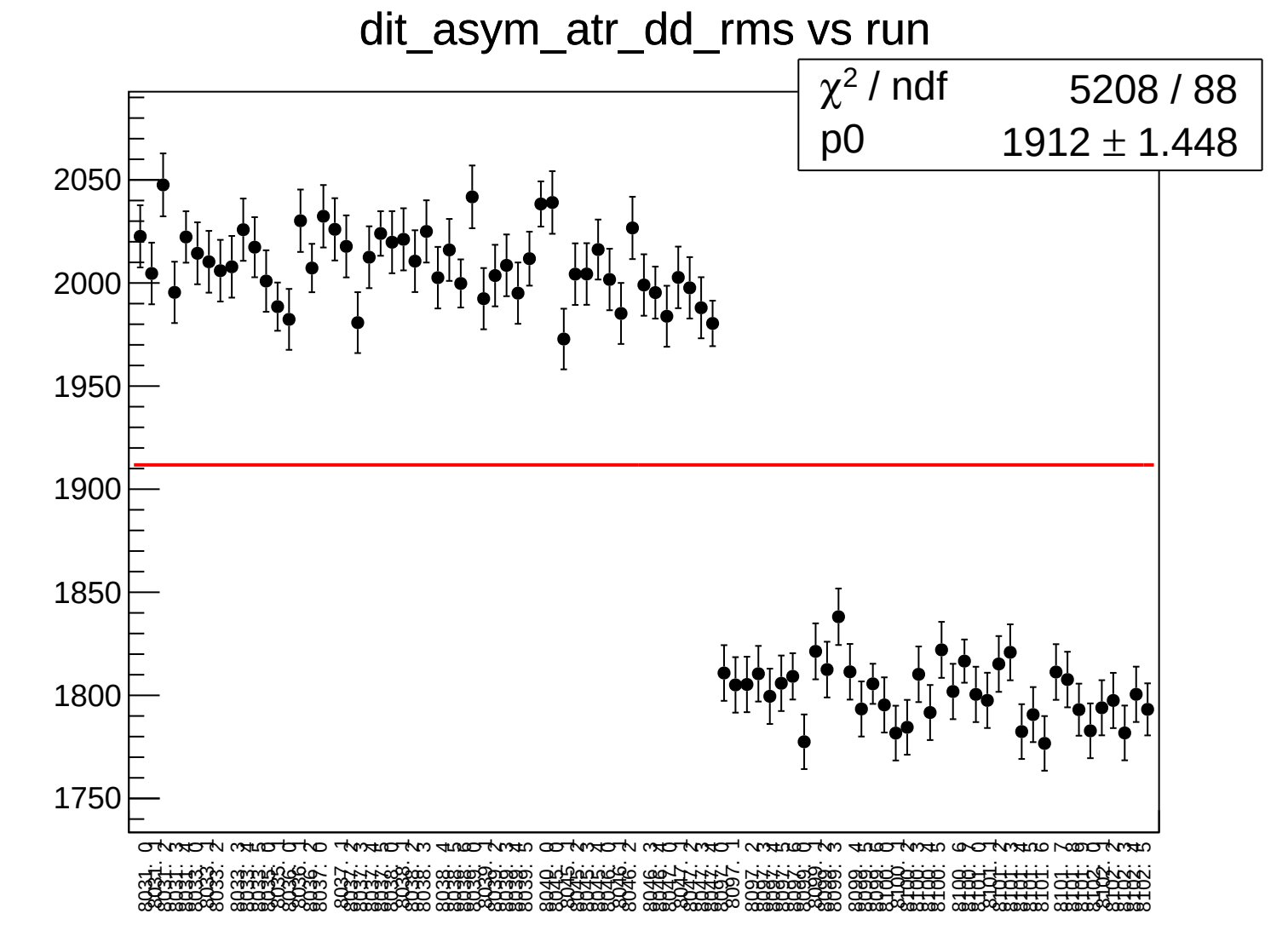

asym_atr_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 93.83 / 88
p0 −4010 ± 6680
200
100
0
−100
−200
−300
pull
Entries 89
Mean −237.7
Std Dev 0
2
1
0
−1
−2
−3

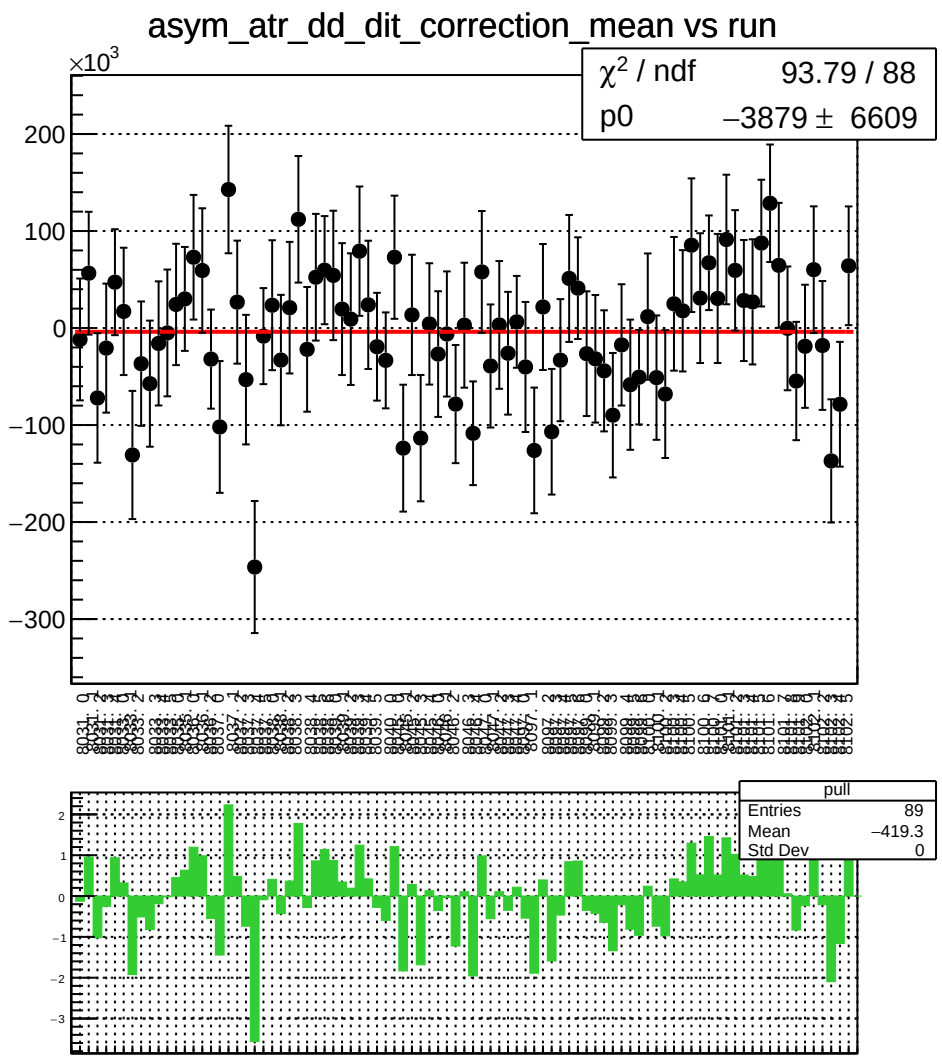

pull1D
Entries 89
Mean −0.005922
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

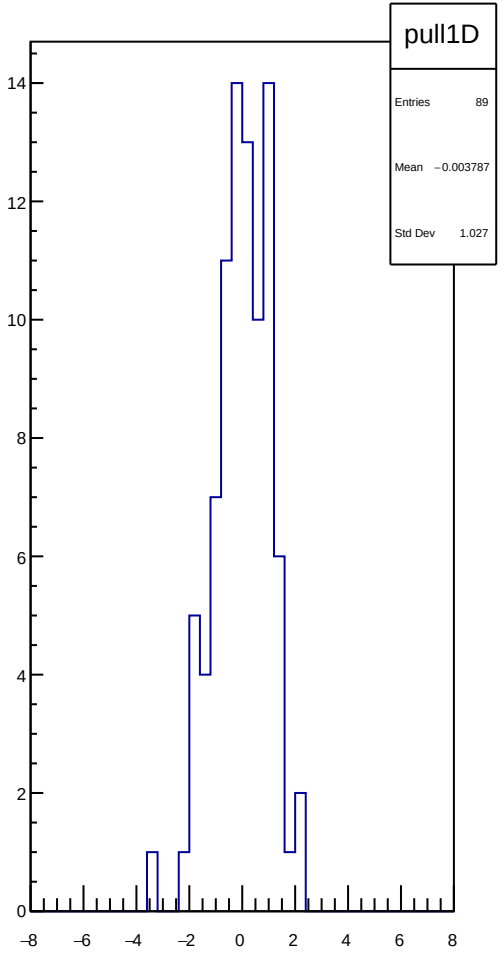

asym_atr_dd_eigen_cor_correction_rms vs run
χ² / ndf 2026 / 88
p0 6240 ± 4.723
6800
6600
6400
6200
6000
5800
5600

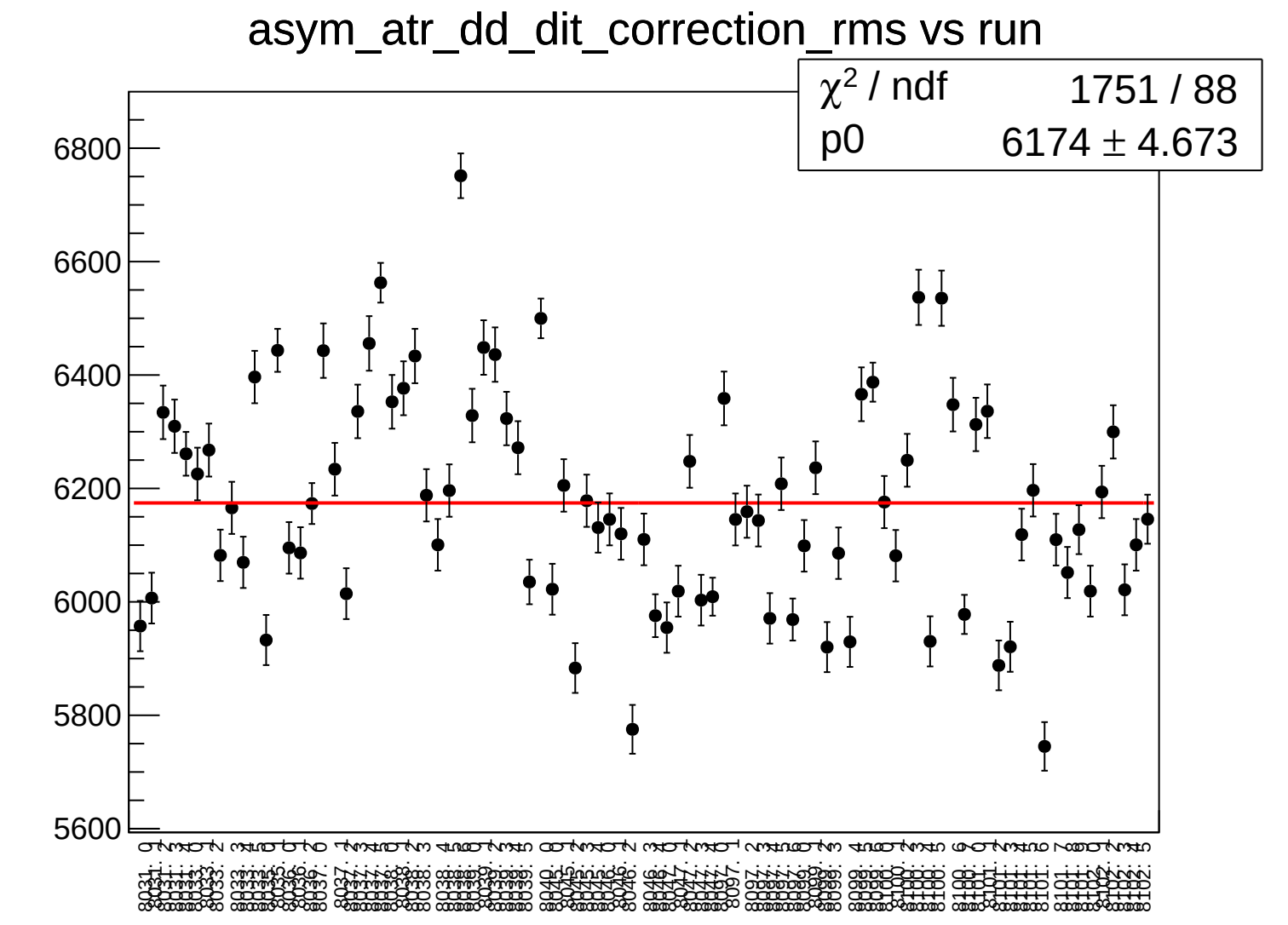

dit_asym_atr_dd_mean vs run
χ² / ndf 99.9 / 88
p0 2071 ± 2048
pull
Entries 89
Mean 29.85
Std Dev 34.84

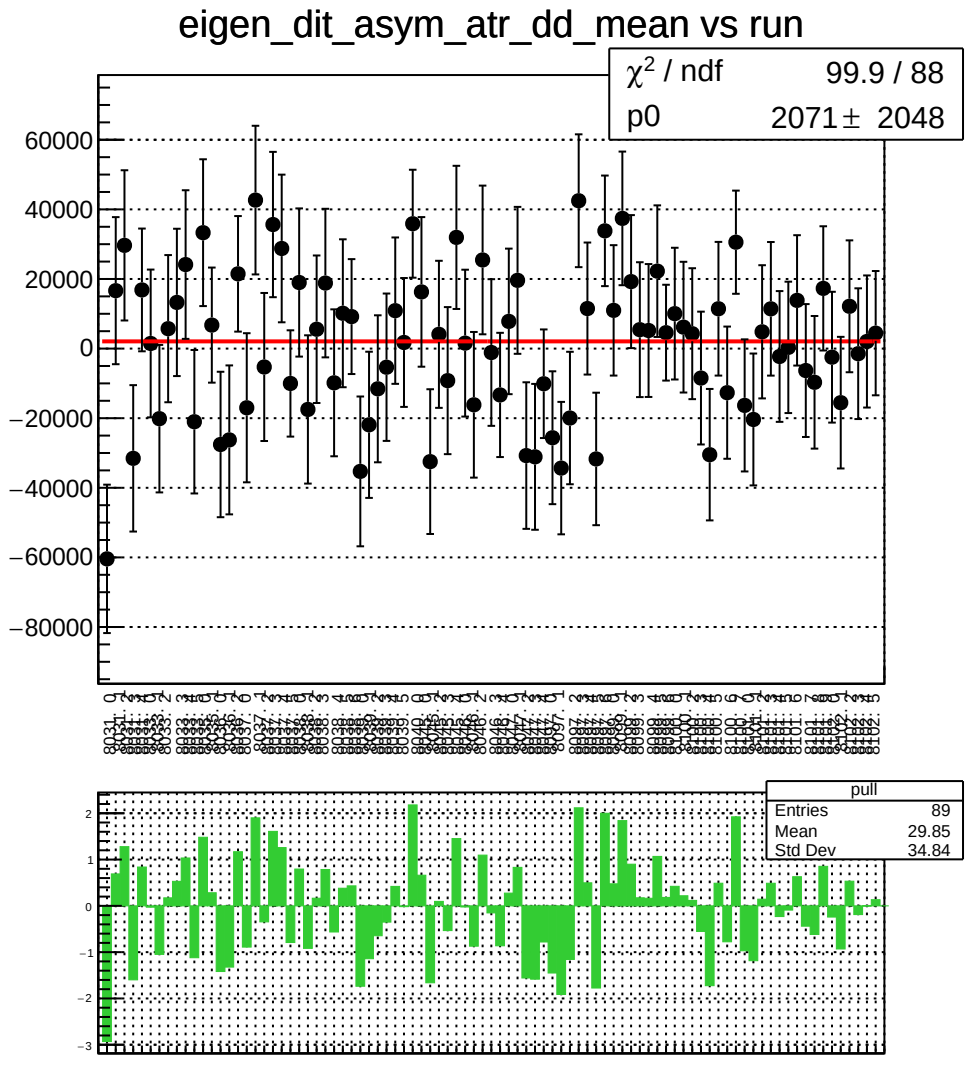

pull1D
Entries 89
Mean −0.02209
Std Dev 1.059

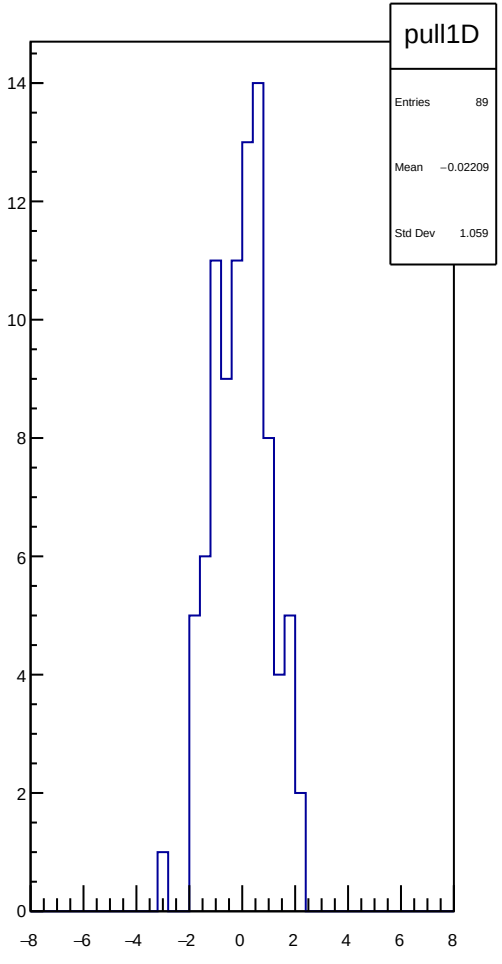

dit_asym_atr_dd_rms vs run
χ² / ndf 5208 / 88
p0 1912 ± 1.448
2050
2000
1950
1900
1850
1800
1750

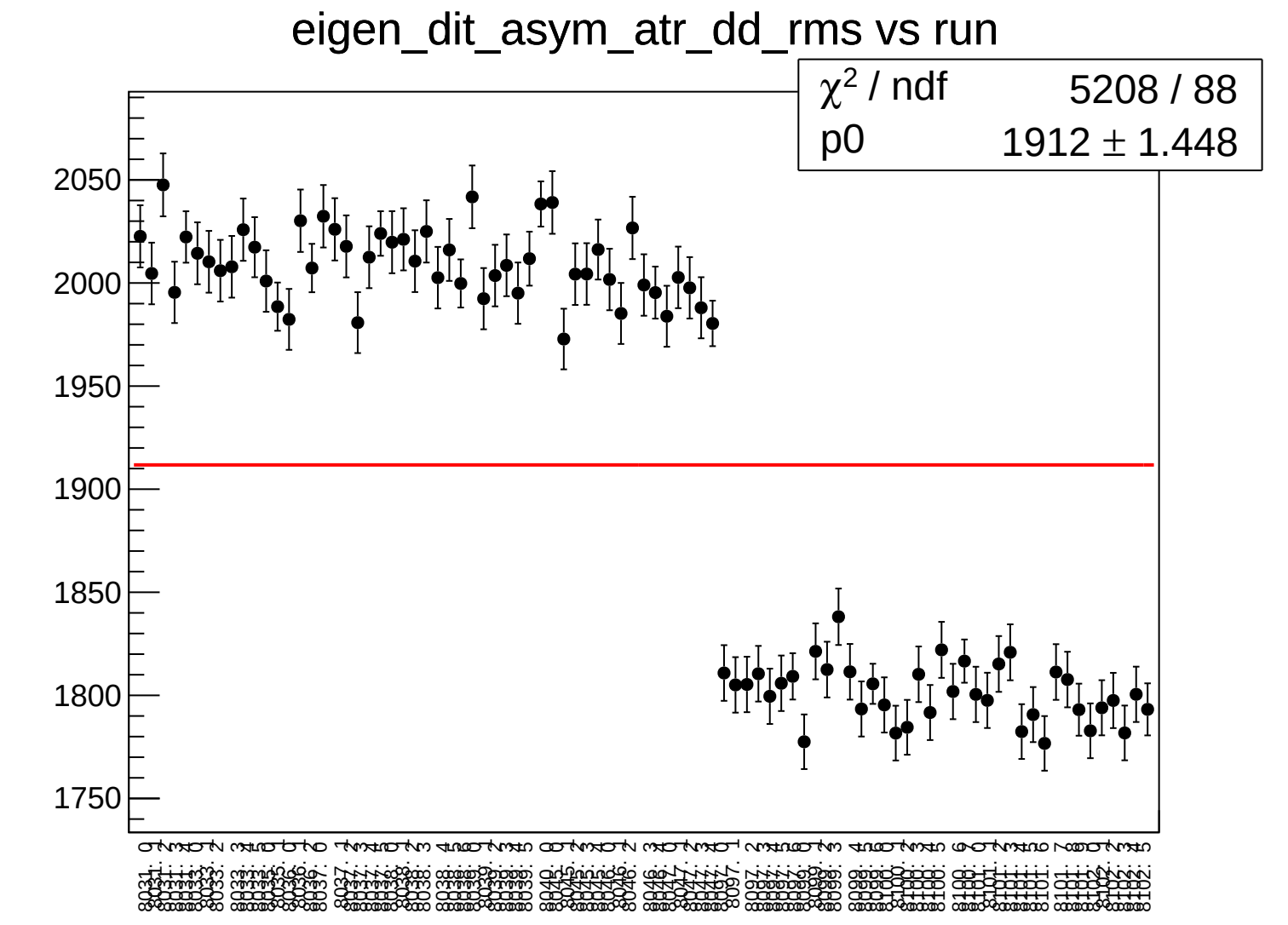

asym_atr_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 93.79 / 88
p0 −3879 ± 6609
200
100
0
−100
−200
−300
pull
Entries 89
Mean −419.3
Std Dev 0
2
1
0
−1
−2
−3

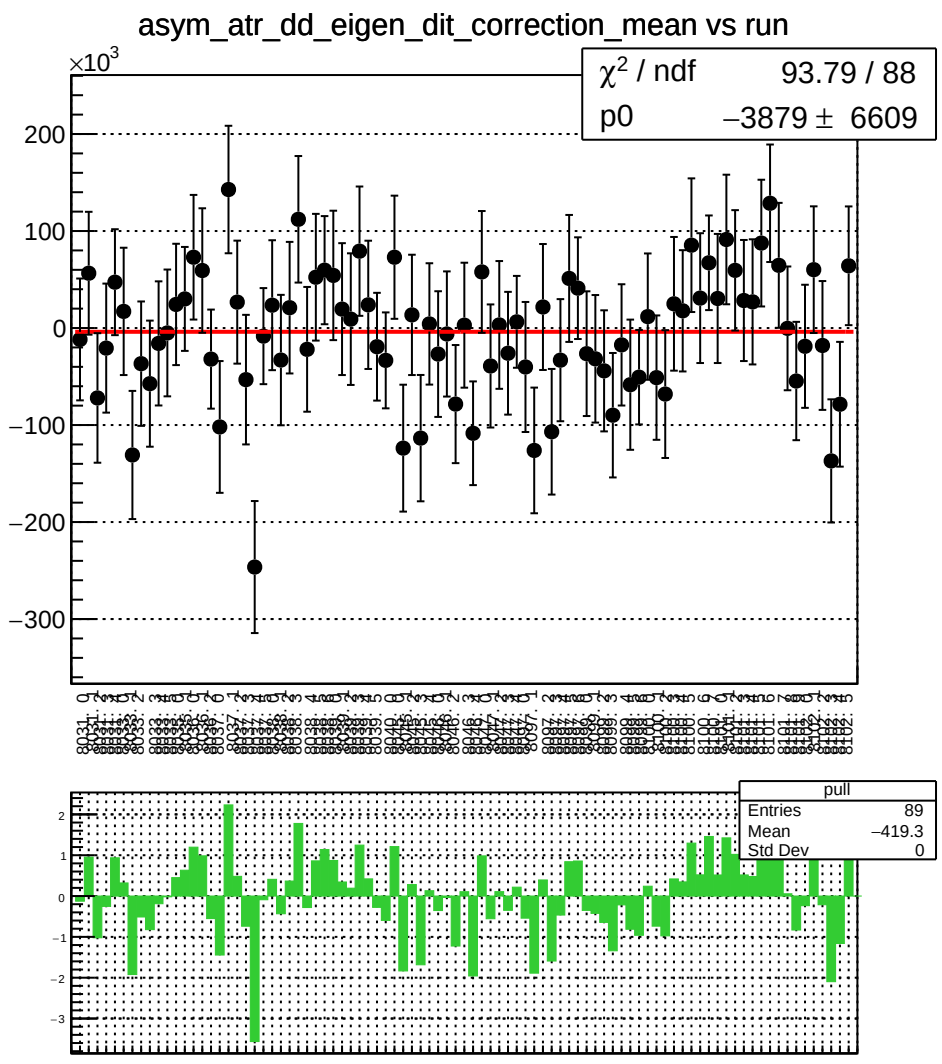

pull1D
Entries 89
Mean −0.003787
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

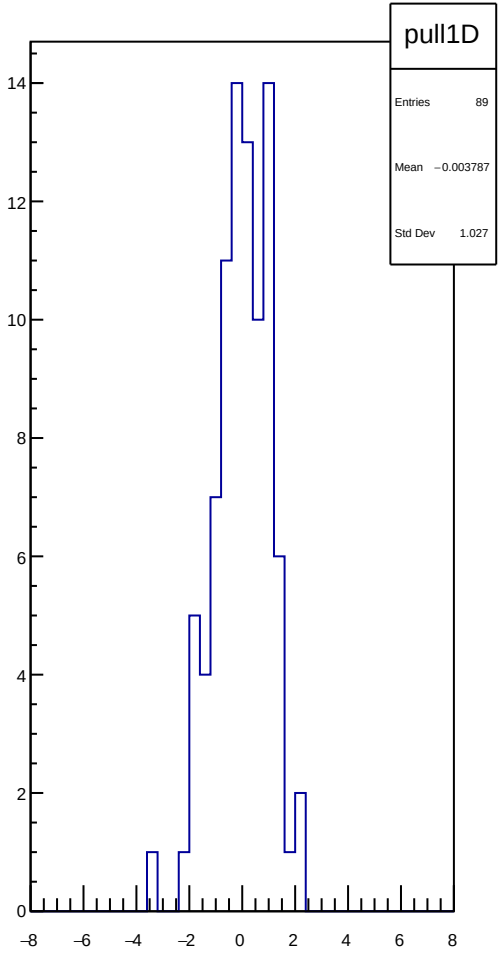

asym_atr_dd_dit_correction_rms vs run
$\chi^2$ / ndf 1751 / 88
p0 6174 ± 4.673
6800
6600
6400
6200
6000
5800
5600

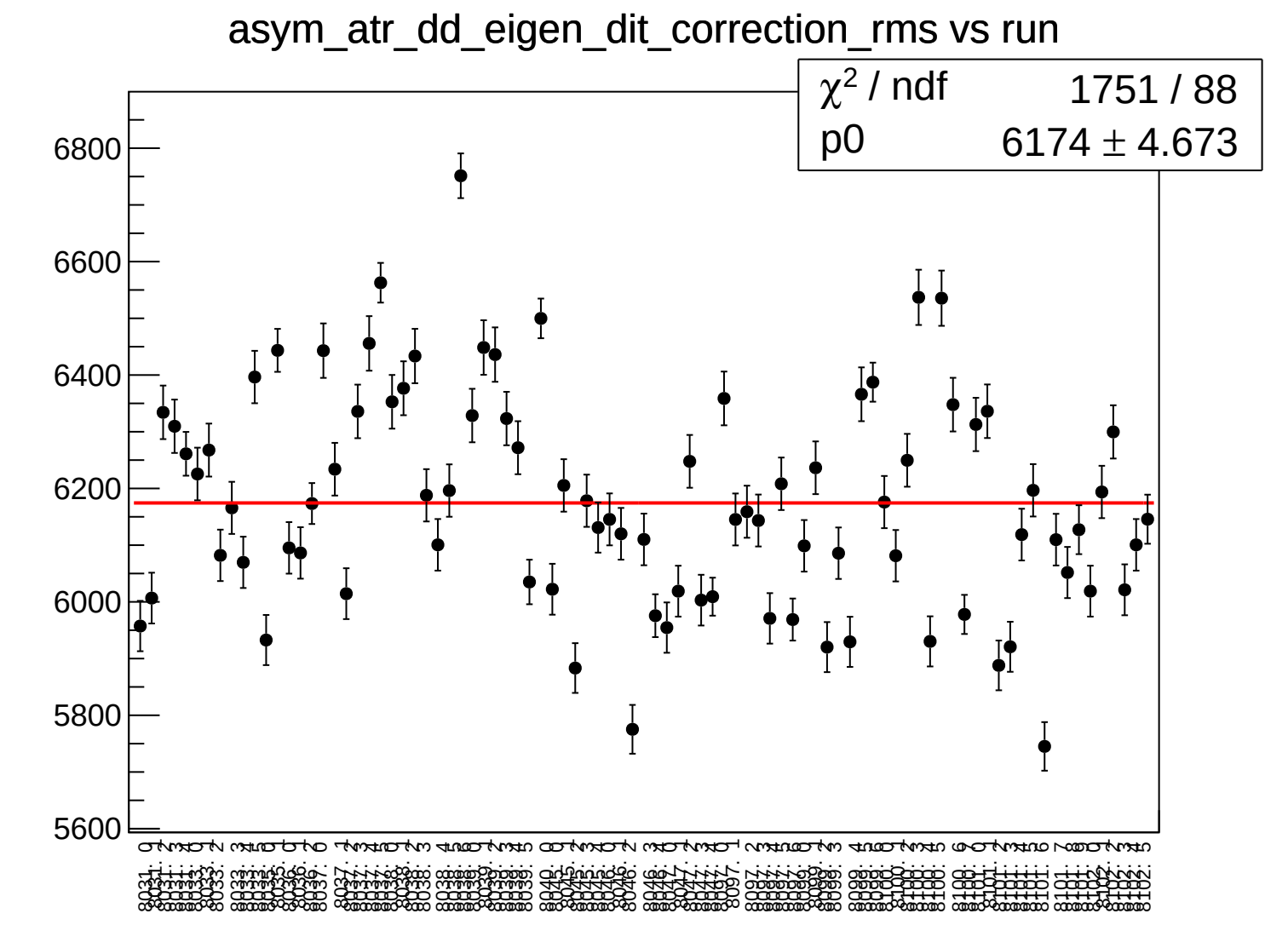

eigen_dit_asym_atr_dd_mean vs run
χ² / ndf 99.9 / 88
p0 2071 ± 2048
pull
Entries 89
Mean 29.85
Std Dev 34.84

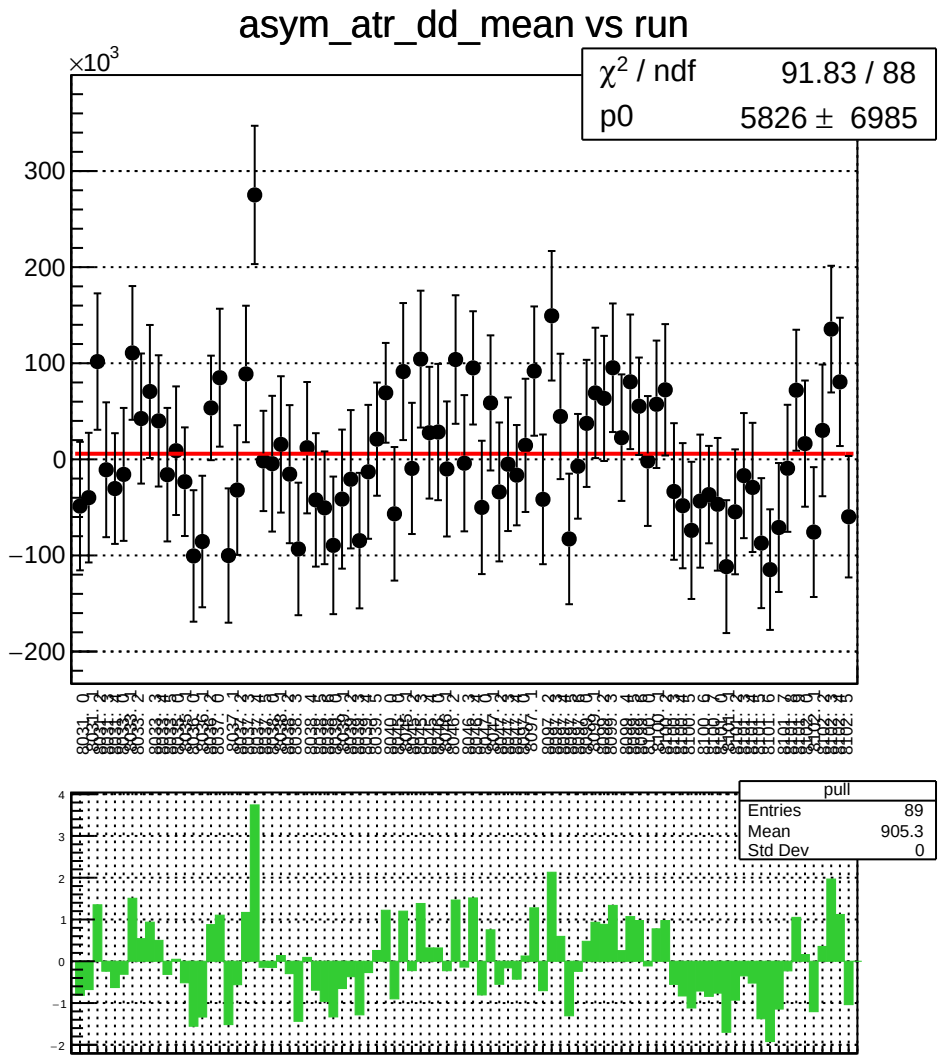

pull1D
Entries 89
Mean −0.02209
Std Dev 1.059

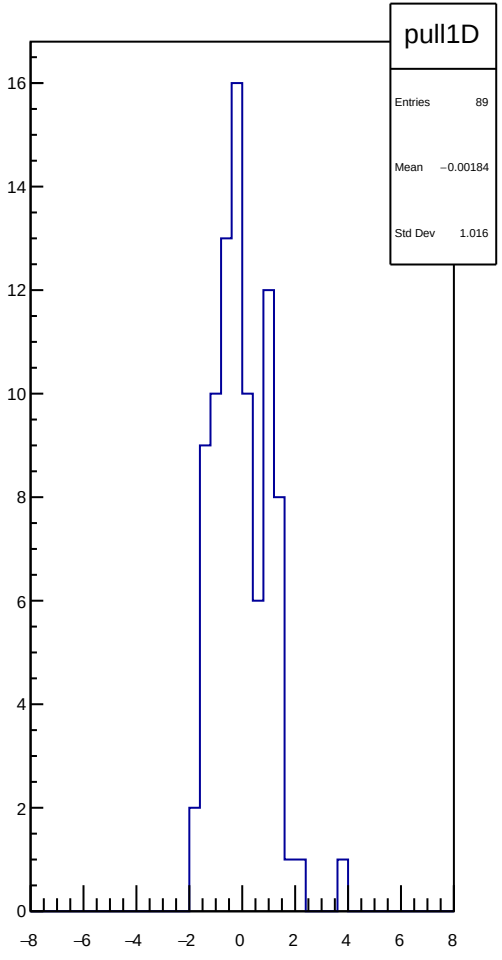

eigen_dit_asym_atr_dd_rms vs run
χ² / ndf 5208 / 88
p0 1912 ± 1.448
2050
2000
1950
1900
1850
1800
1750

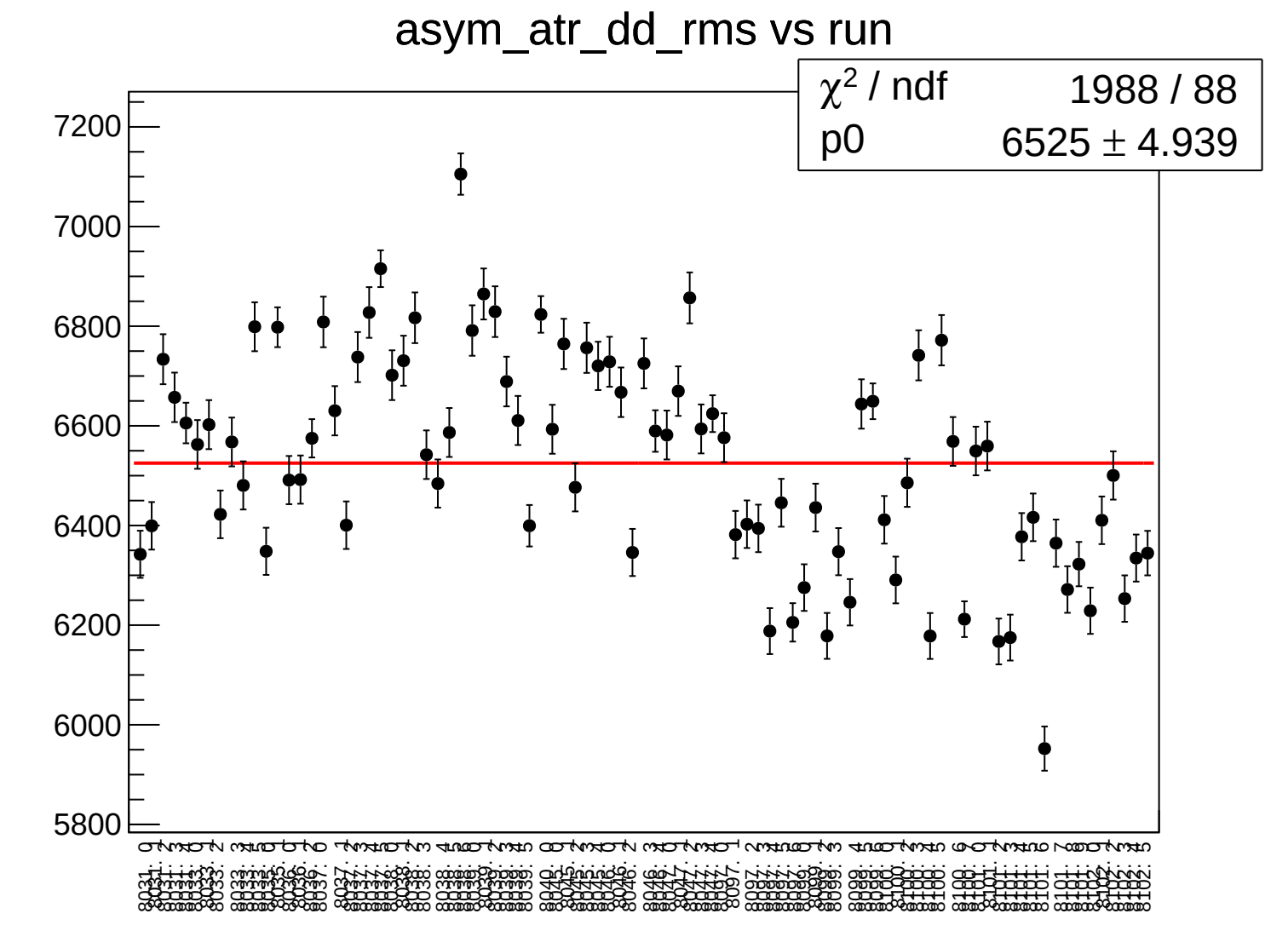

asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 93.79 / 88
p0 −3879 ± 6609
200
100
0
−100
−200
−300
pull
Entries 89
Mean −419.3
Std Dev 0
2
1
0
−1
−2
−3

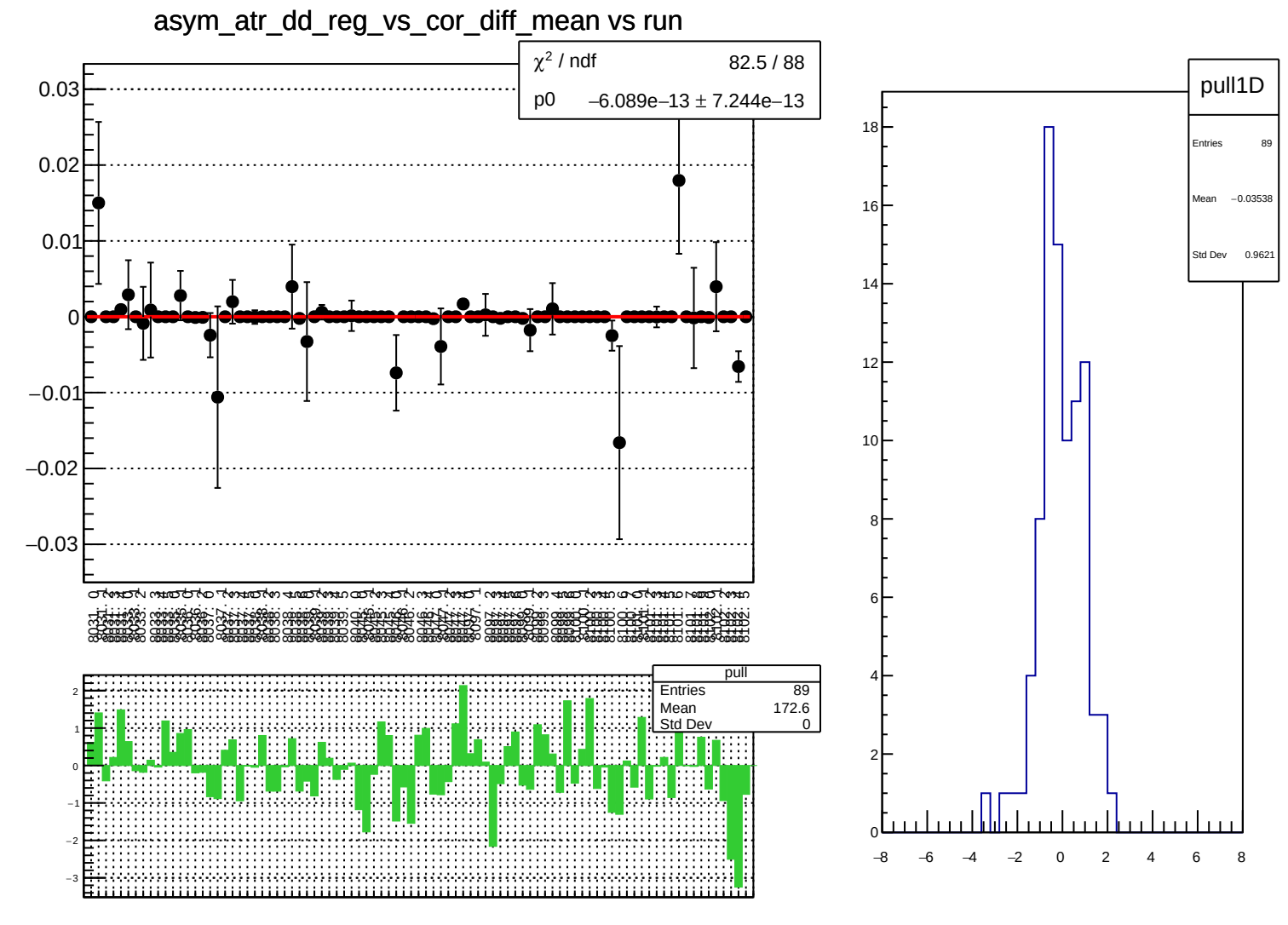

pull1D
Entries 89
Mean −0.003787
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

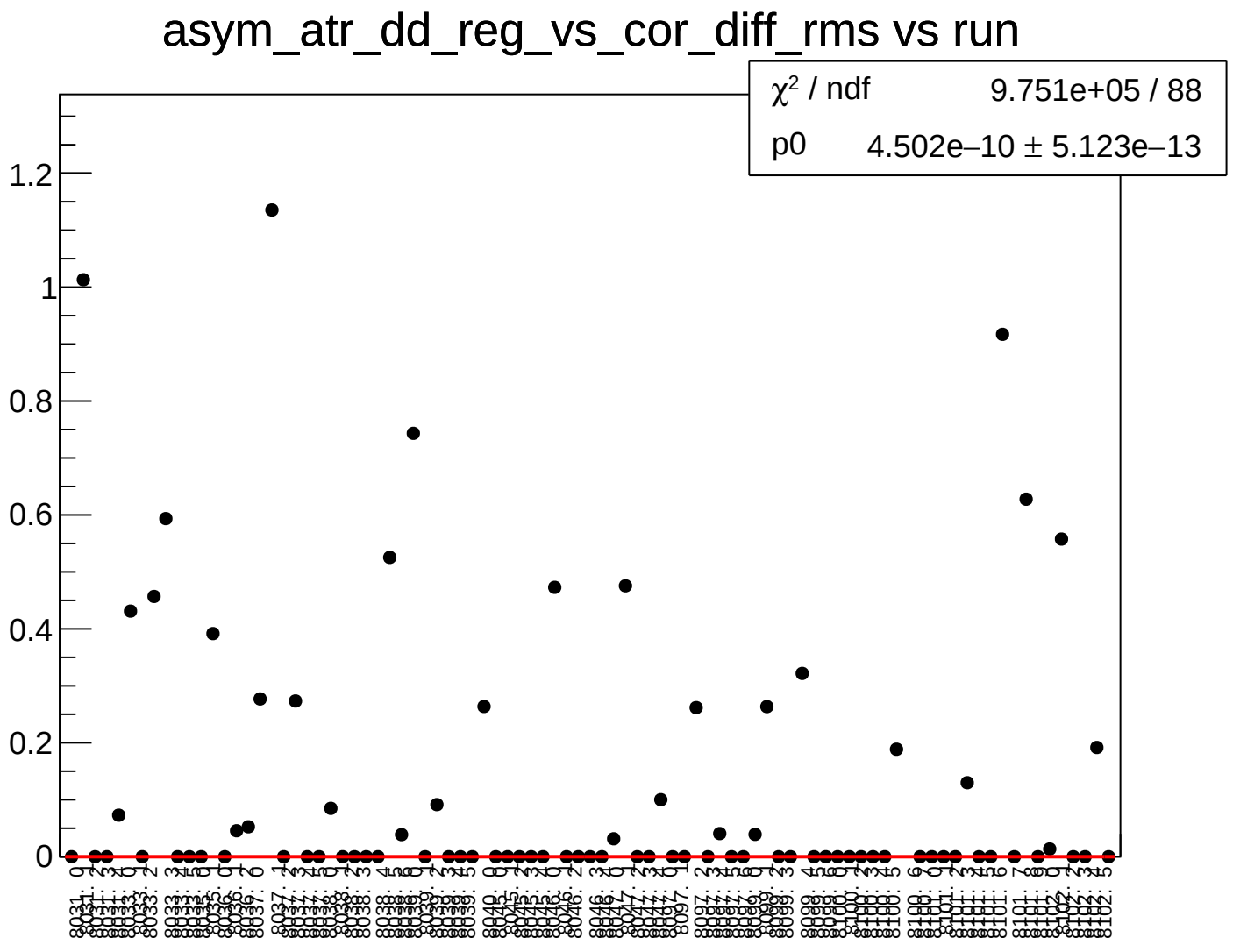

asym_atr_dd_eigen_dit_correction_rms vs run
$\chi^2$ / ndf 1751 / 88
p0 6174 ± 4.673
6800
6600
6400
6200
6000
5800
5600

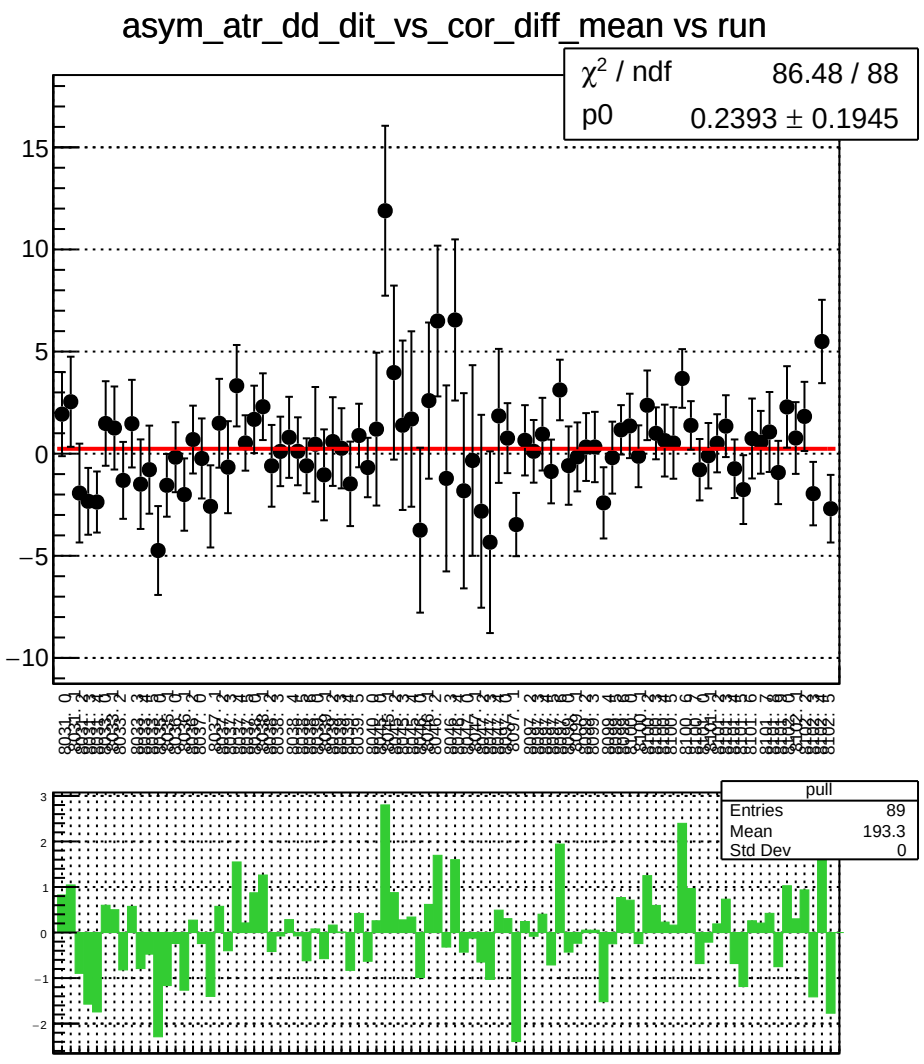

asym_atr_dd_mean vs run
×10^3
χ^2 / ndf 91.83 / 88
p0 5826 ± 6985
300
200
100
0
−100
−200
pull
Entries 89
Mean 905.3
Std Dev 0
4
3
2
1
0
−1
−2

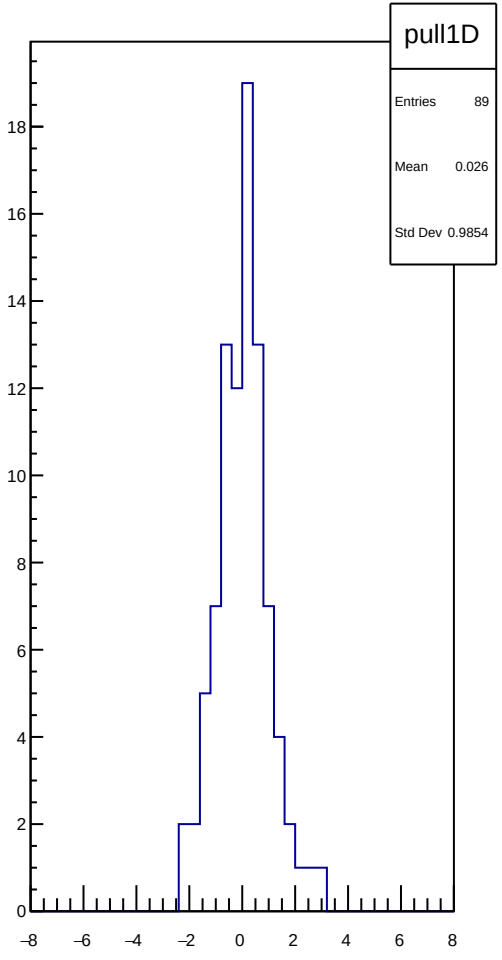

pull1D
Entries 89
Mean −0.00184
Std Dev 1.016
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

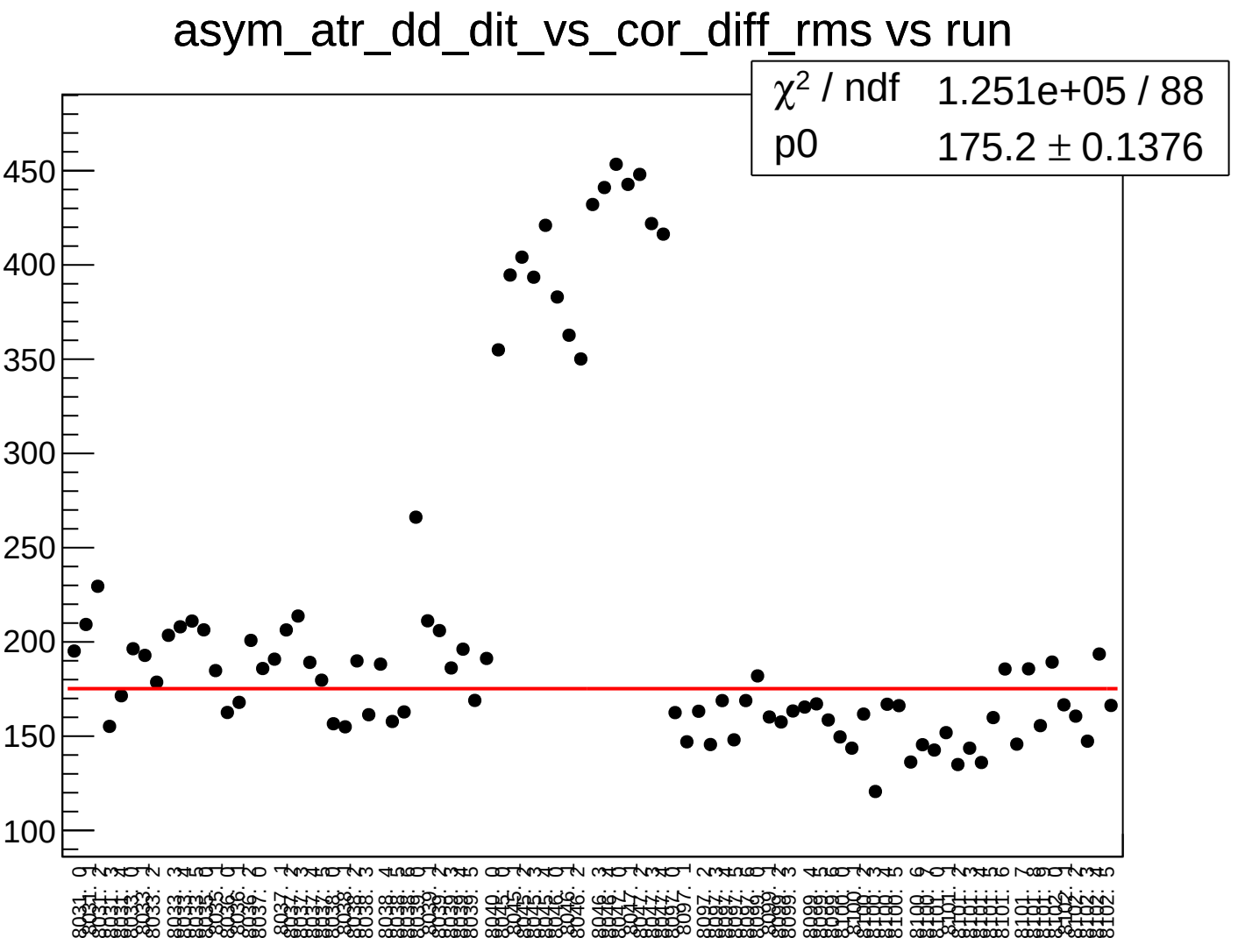

asym_atr_dd_rms vs run
$\chi^2$ / ndf 1988 / 88
p0 6525 ± 4.939
7200
7000
6800
6600
6400
6200
6000
5800

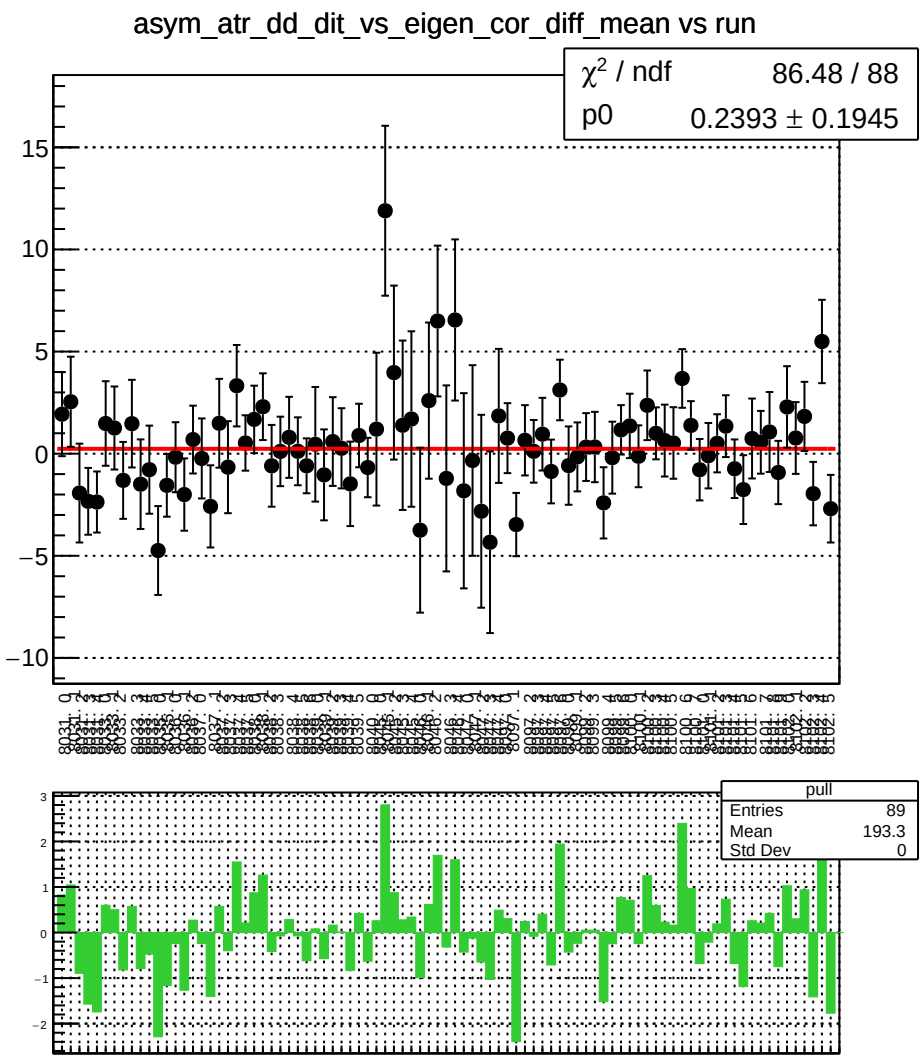

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 82.5 / 88
p0 −6.089e−13 ± 7.244e−13
pull
Entries 89
Mean 172.6
Std Dev 0
pull1D
Entries 89
Mean −0.03538
Std Dev 0.9621

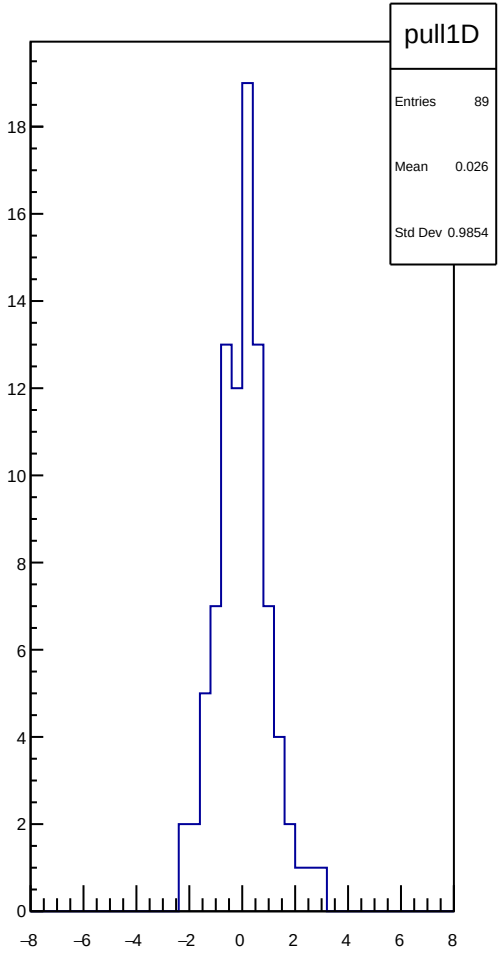

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.751e+05 / 88
p0 4.502e−10 ± 5.123e−13
1.2
1
0.8
0.6
0.4
0.2
0

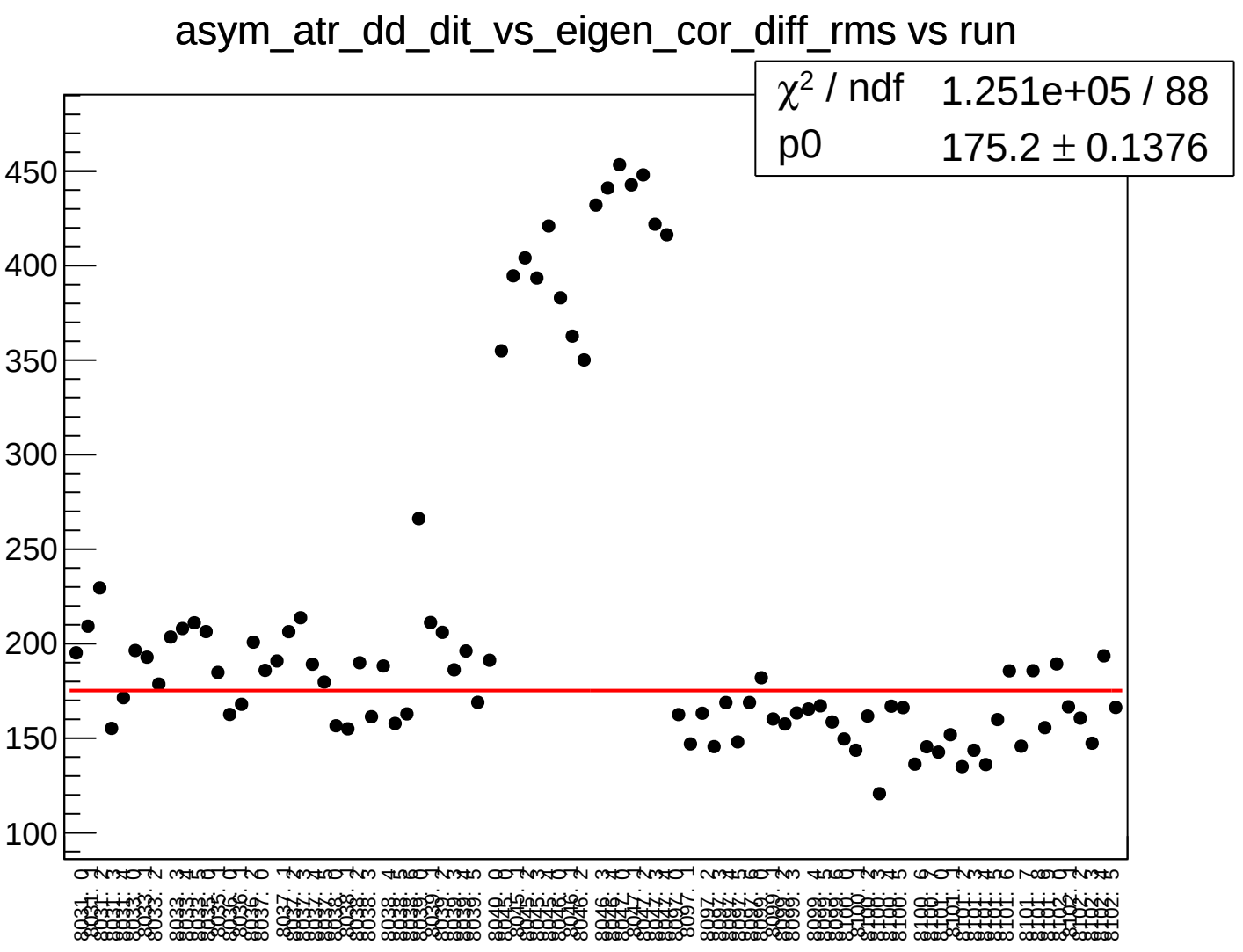

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.48 / 88
p0 0.2393 ± 0.1945
pull
Entries 89
Mean 193.3
Std Dev 0

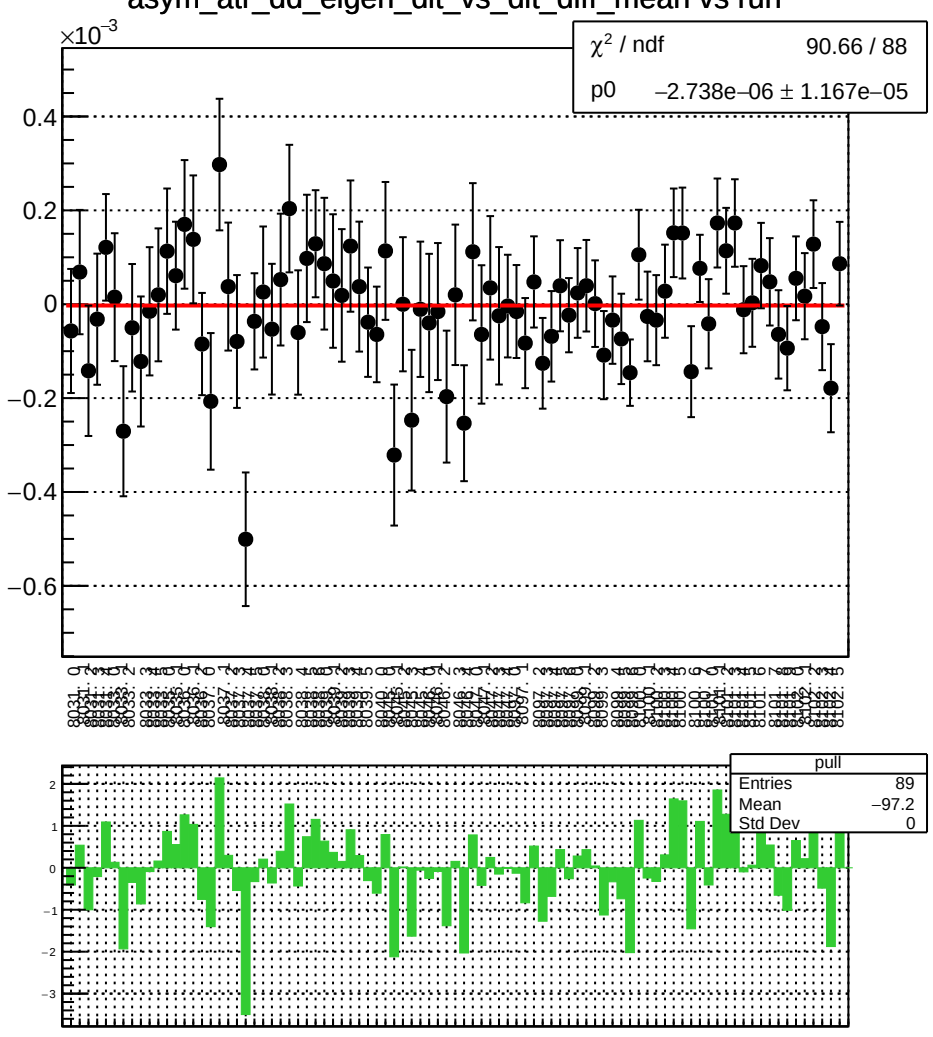

pull1D
Entries 89
Mean 0.026
Std Dev 0.9854

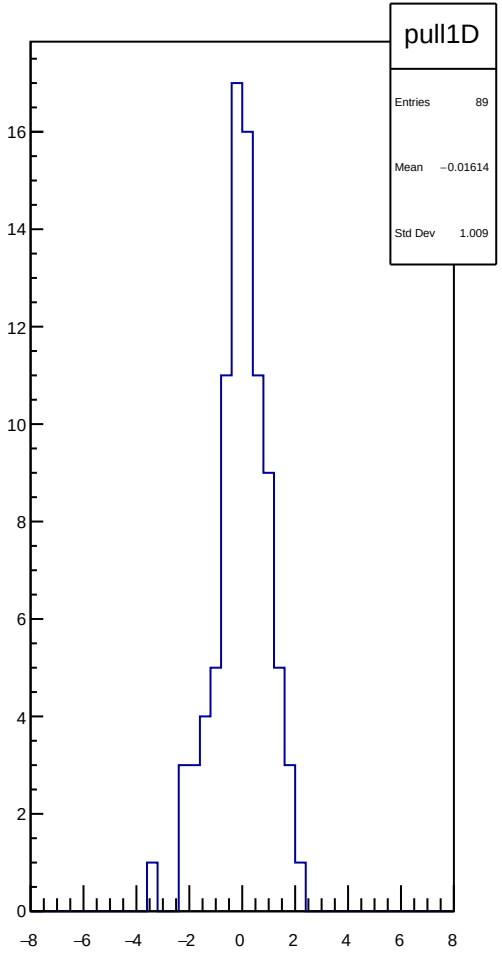

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.251e+05 / 88
p0 175.2 ± 0.1376
450
400
350
300
250
200
150
100

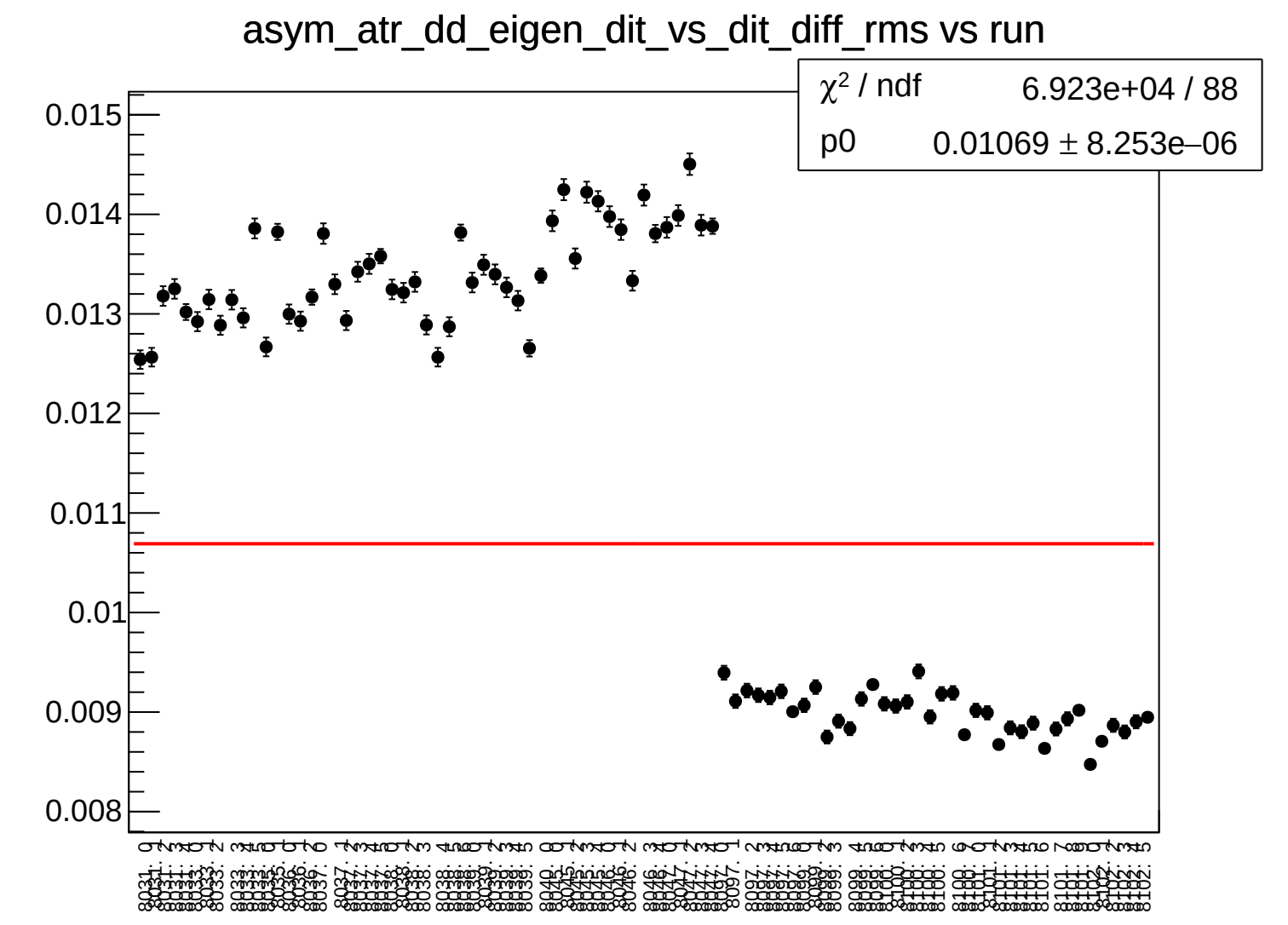

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.48 / 88
p0 0.2393 ± 0.1945
pull
Entries 89
Mean 193.3
Std Dev 0

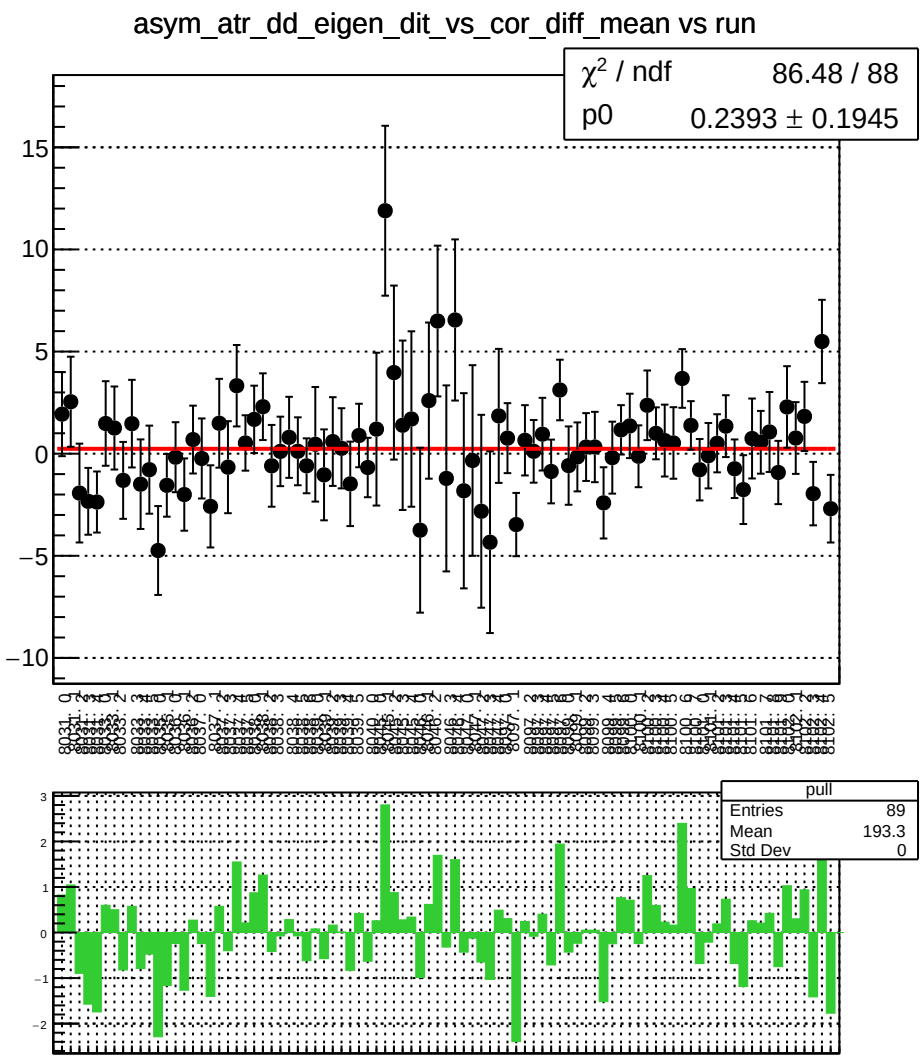

pull1D
Entries 89
Mean 0.026
Std Dev 0.9854

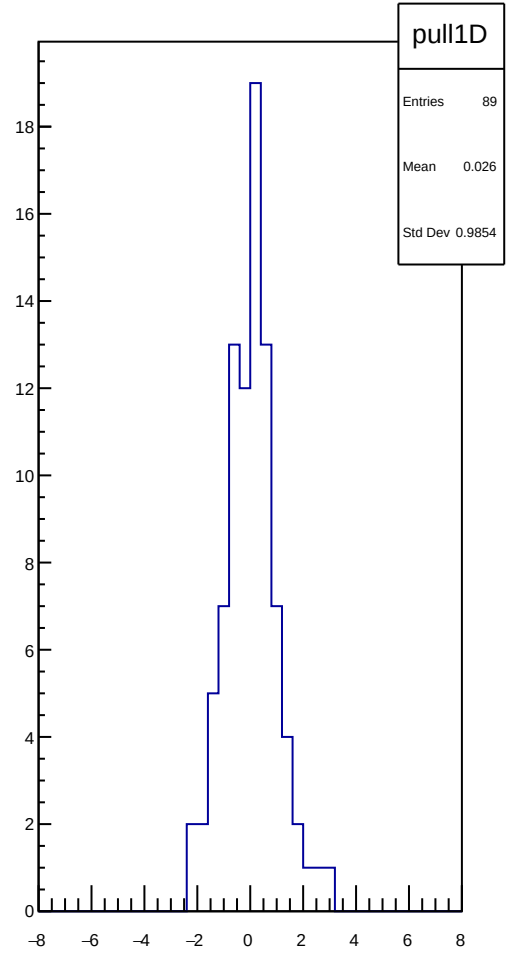

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 1.251e+05 / 88
p0 175.2 ± 0.1376
450
400
350
300
250
200
150
100

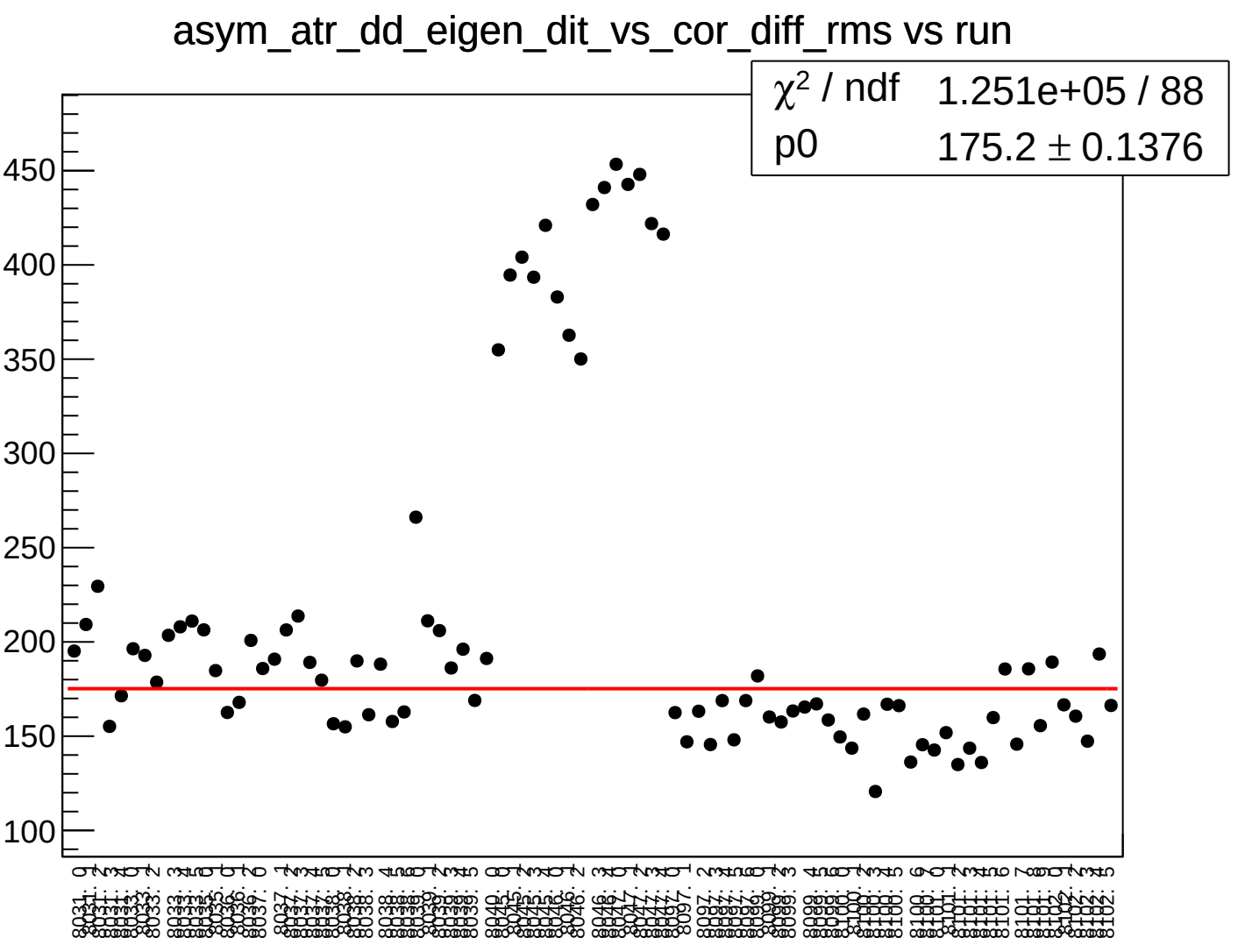

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.66 / 88
p0 −2.738e−06 ± 1.167e−05
pull
Entries 89
Mean −97.2
Std Dev 0

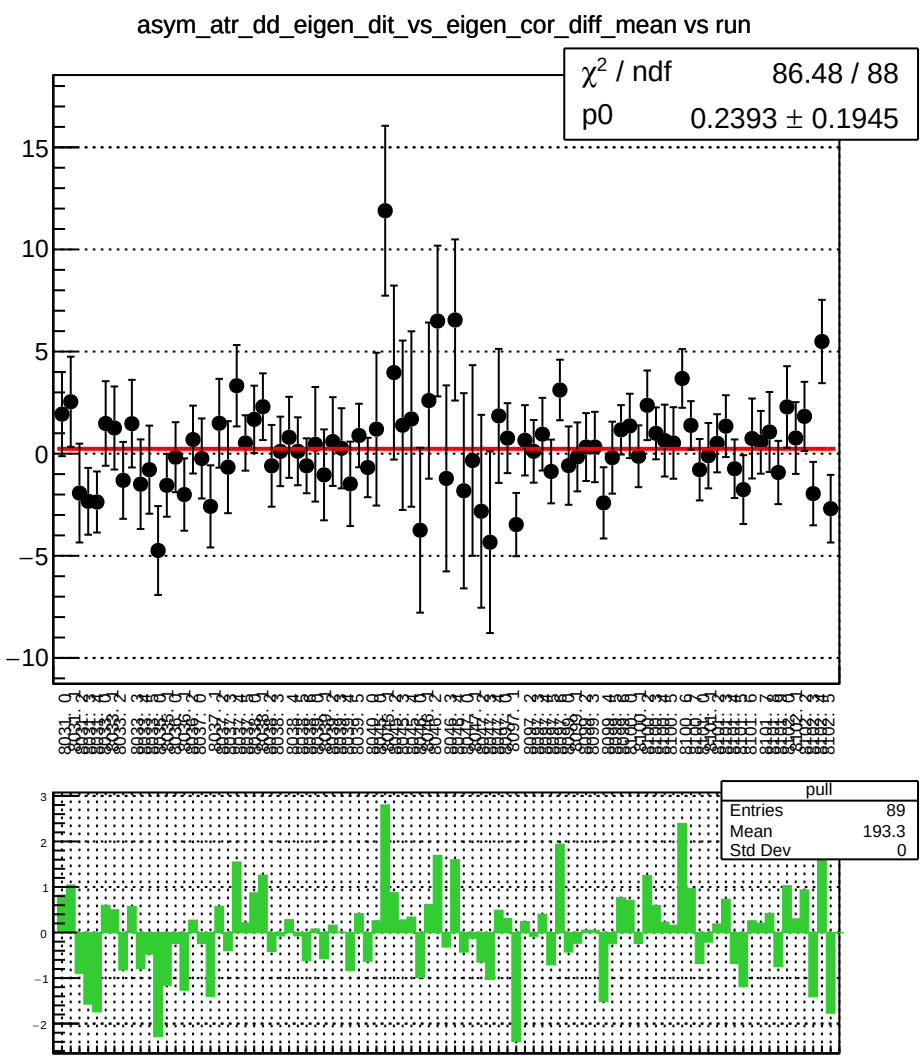

pull1D
Entries 89
Mean −0.01614
Std Dev 1.009

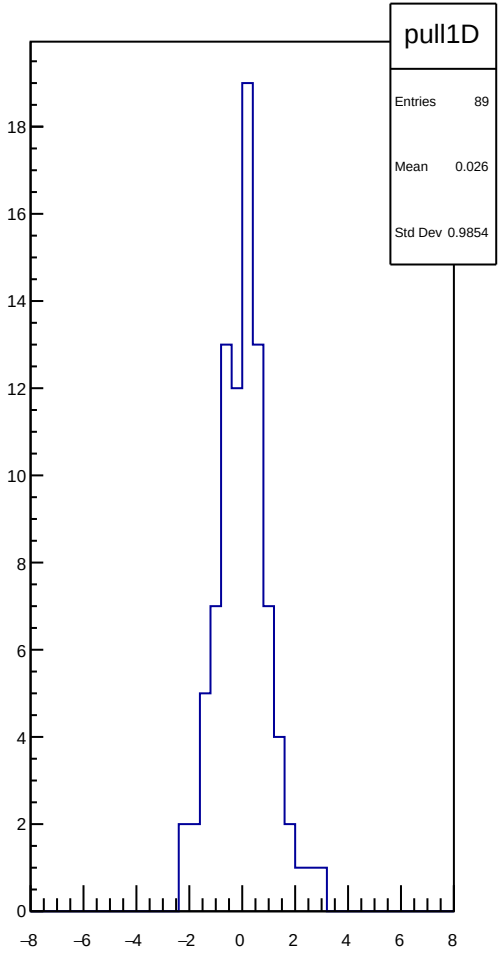

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.923e+04 / 88
p0 0.01069 ± 8.253e–06
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008

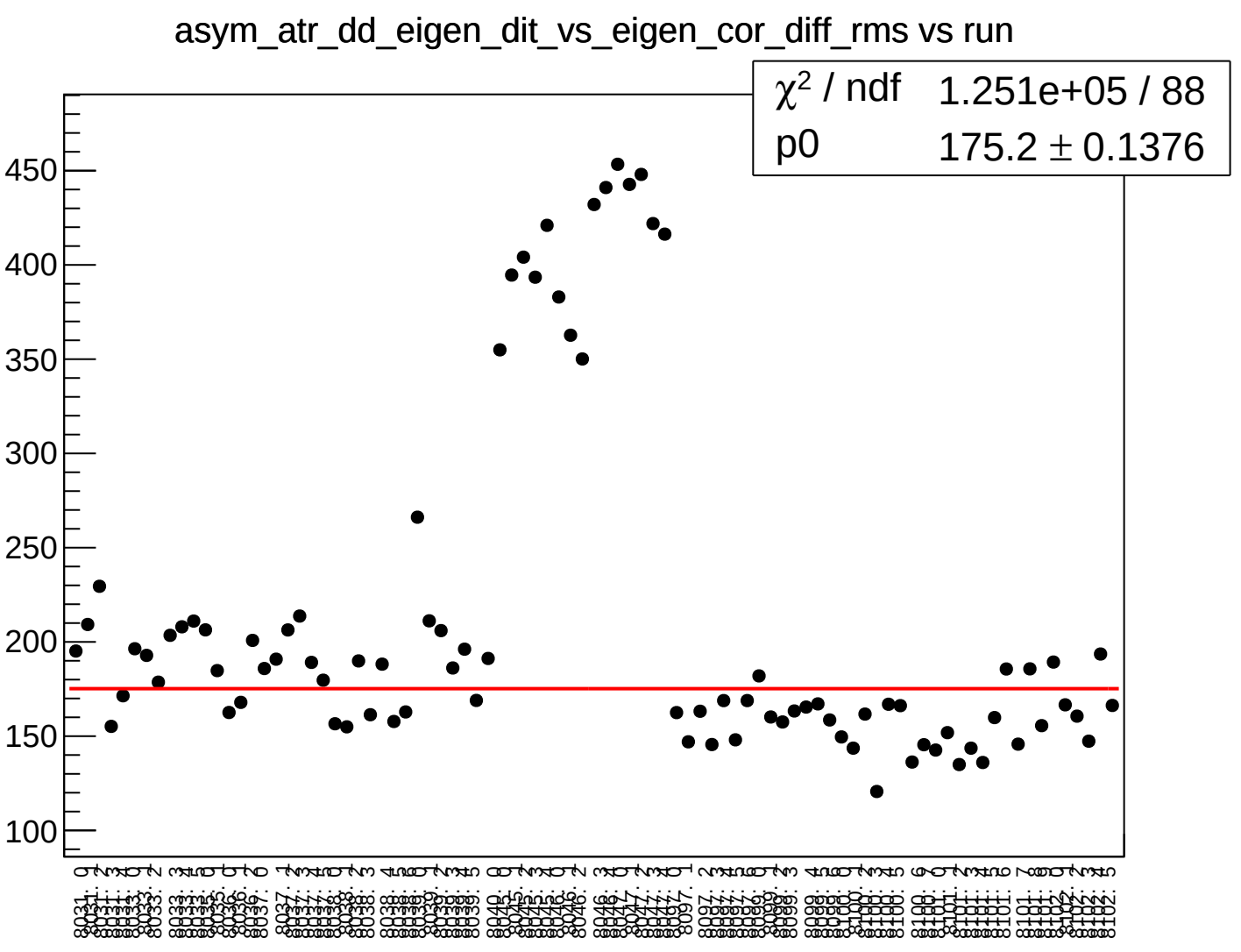

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.48 / 88
p0 0.2393 ± 0.1945
pull
Entries 89
Mean 193.3
Std Dev 0

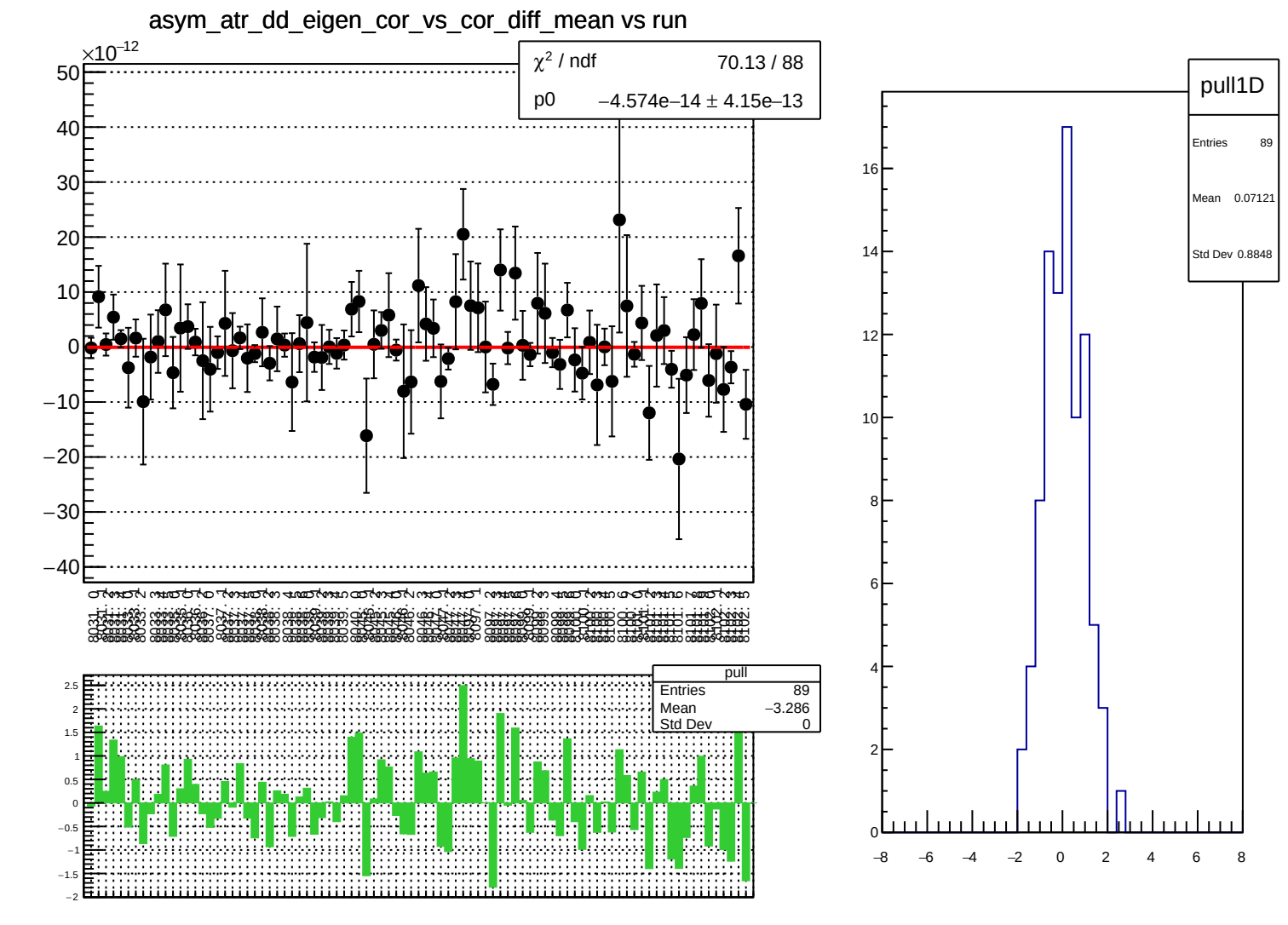

pull1D
Entries 89
Mean 0.026
Std Dev 0.9854

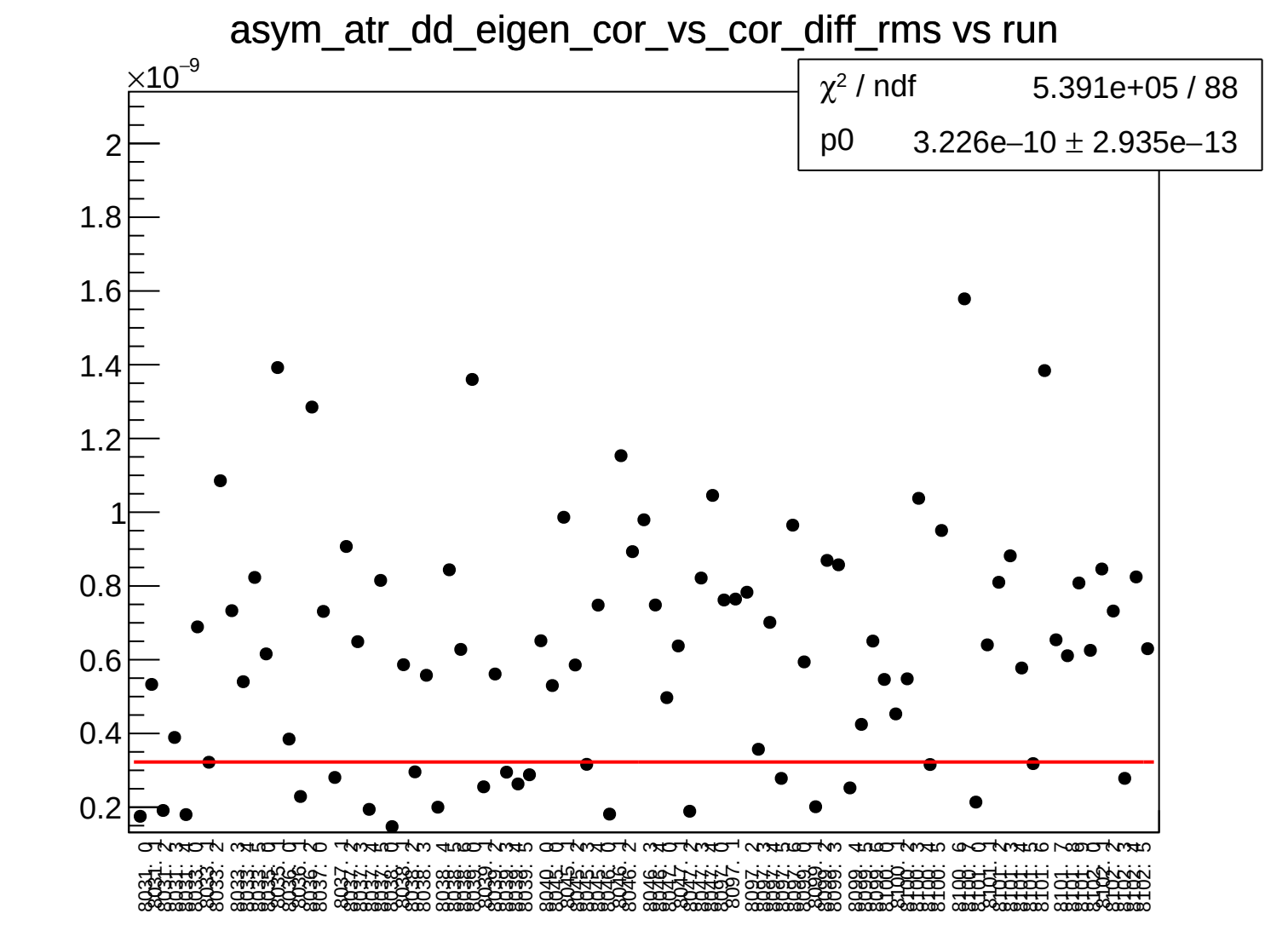

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.251e+05 / 88
p0 175.2 ± 0.1376
450
400
350
300
250
200
150
100

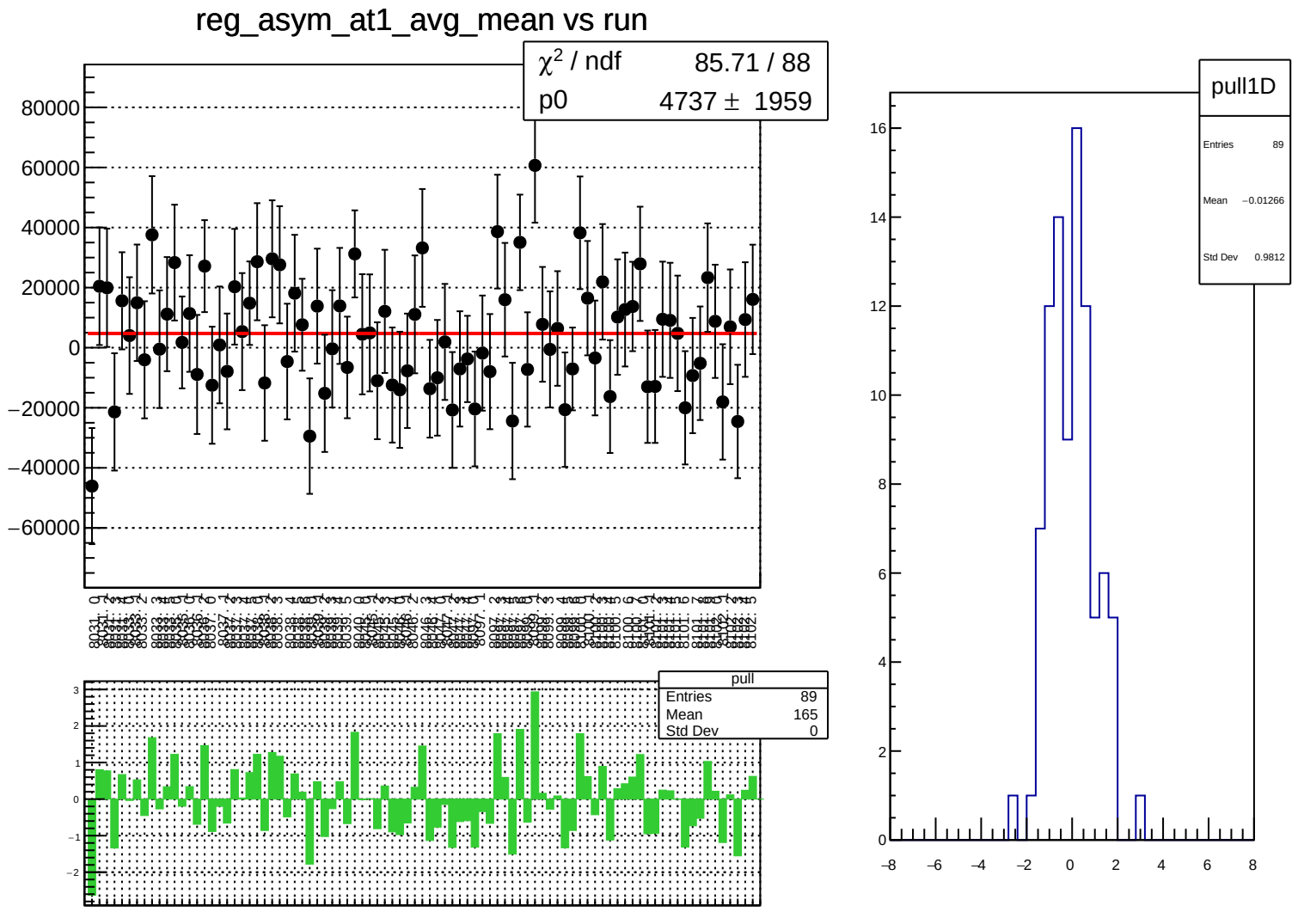

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.48 / 88
p0 0.2393 ± 0.1945
15
10
5
0
−5
−10
pull
Entries 89
Mean 193.3
Std Dev 0
3
2
1
0
−1
−2

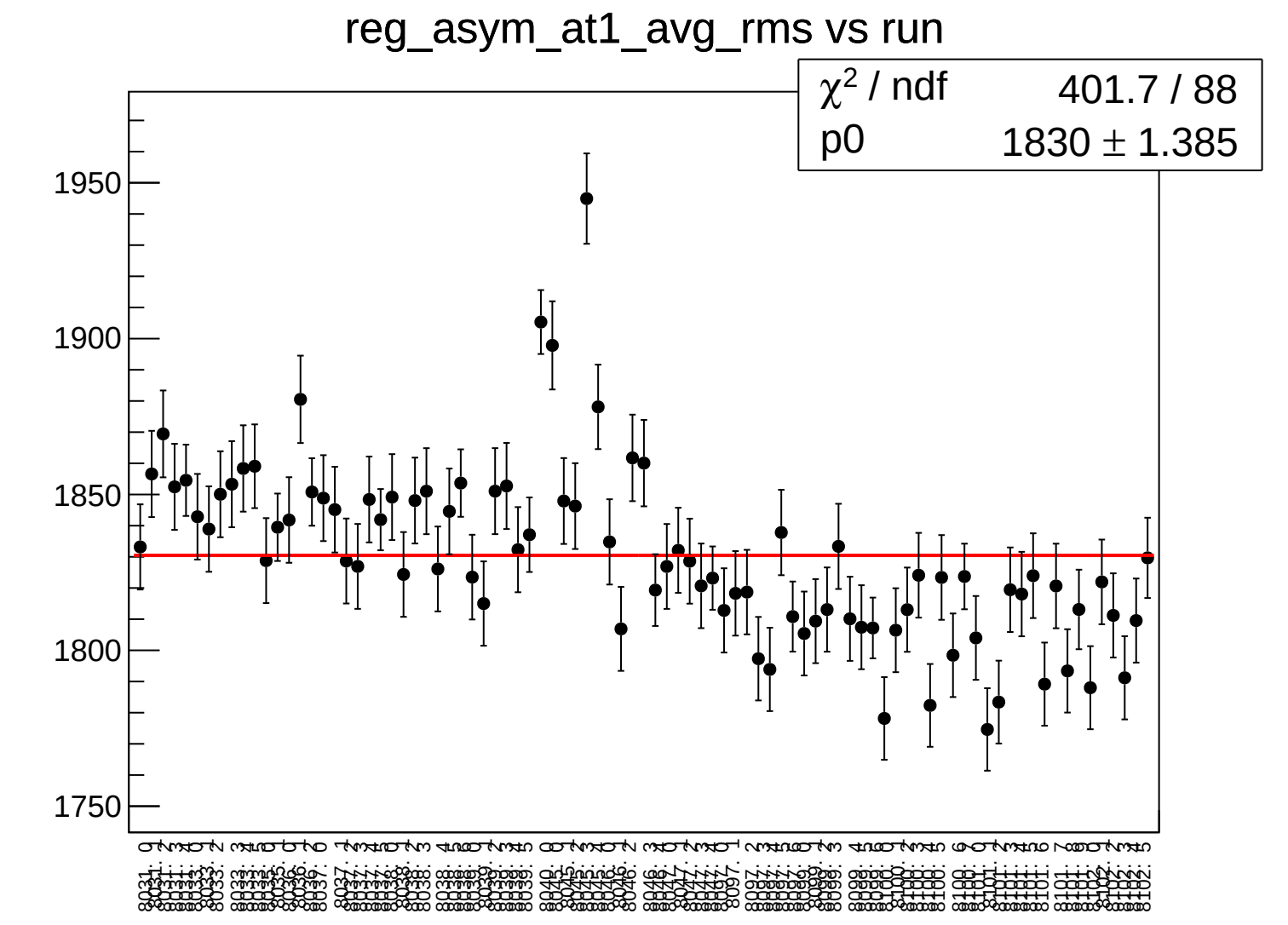

pull1D
Entries 89
Mean 0.026
Std Dev 0.9854
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

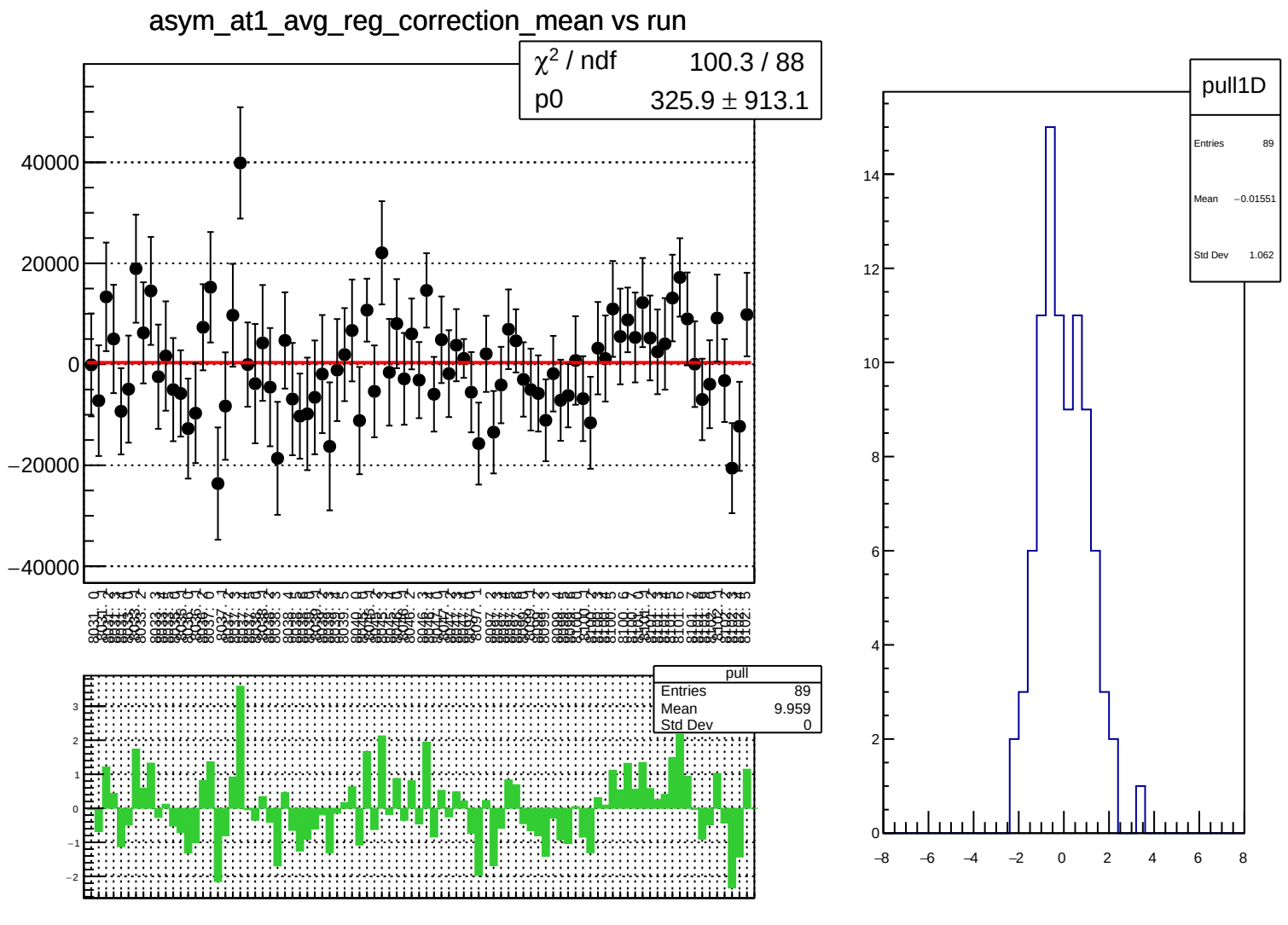

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.251e+05 / 88
p0 175.2 ± 0.1376
450
400
350
300
250
200
150
100

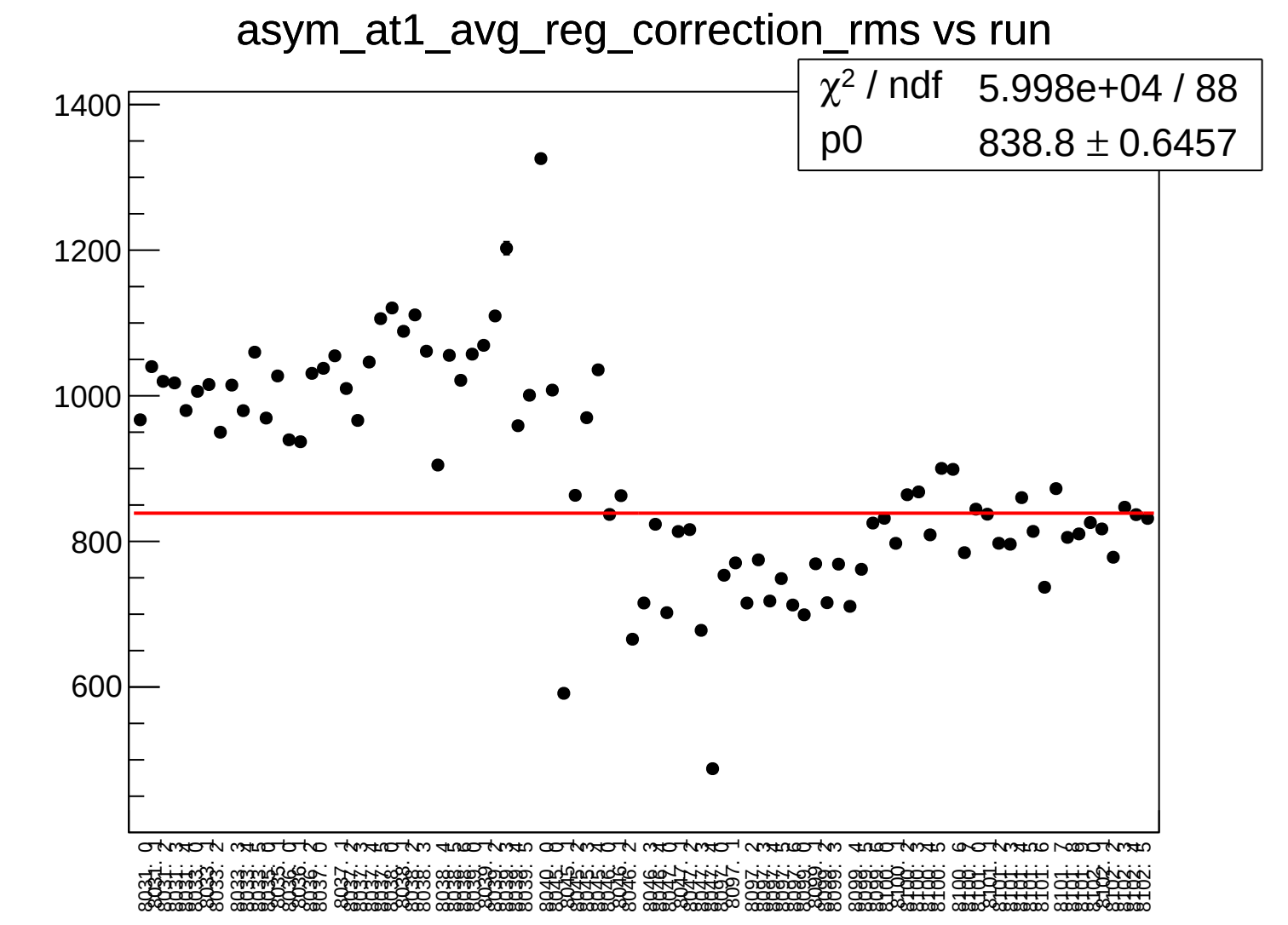

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 70.13 / 88
p0 −4.574e−14 ± 4.15e−13
pull
Entries 89
Mean −3.286
Std Dev 0
pull1D
Entries 89
Mean 0.07121
Std Dev 0.8848

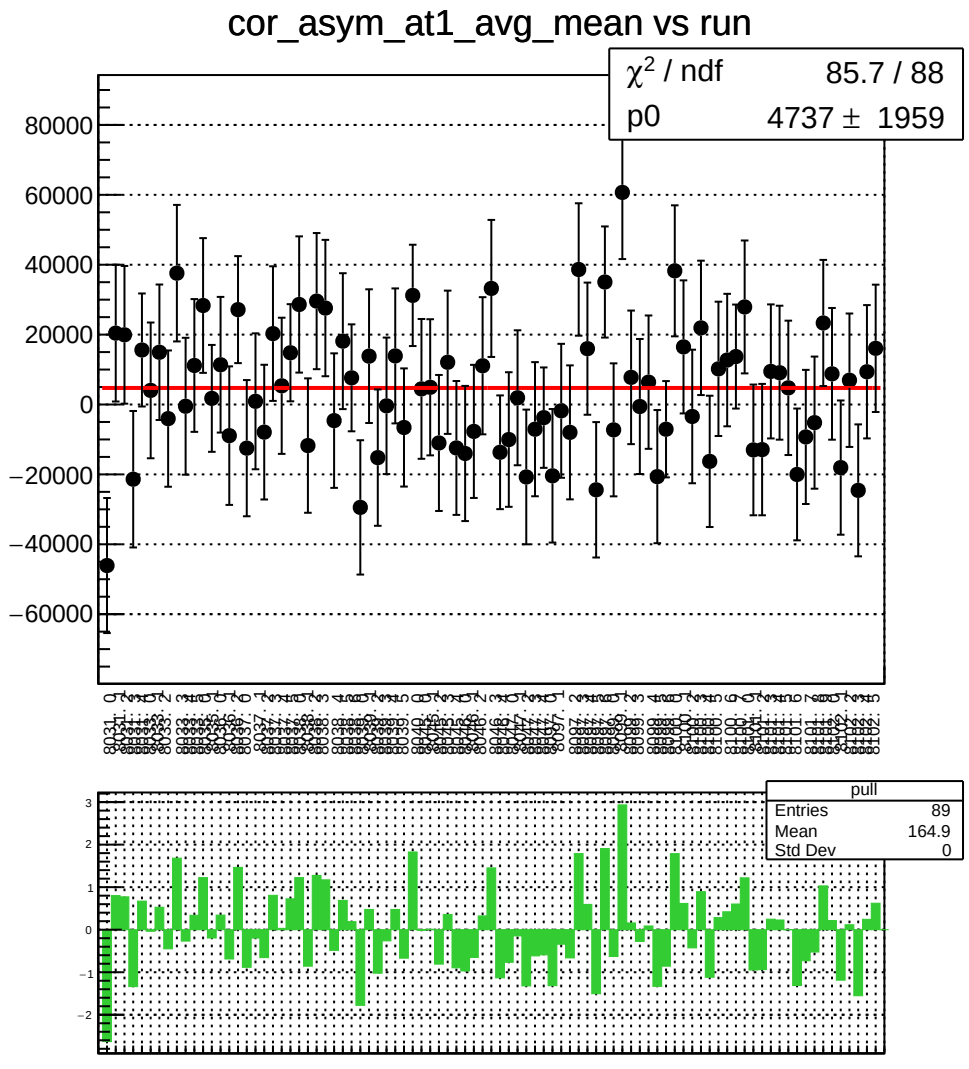

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.391e+05 / 88
p0 3.226e−10 ± 2.935e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

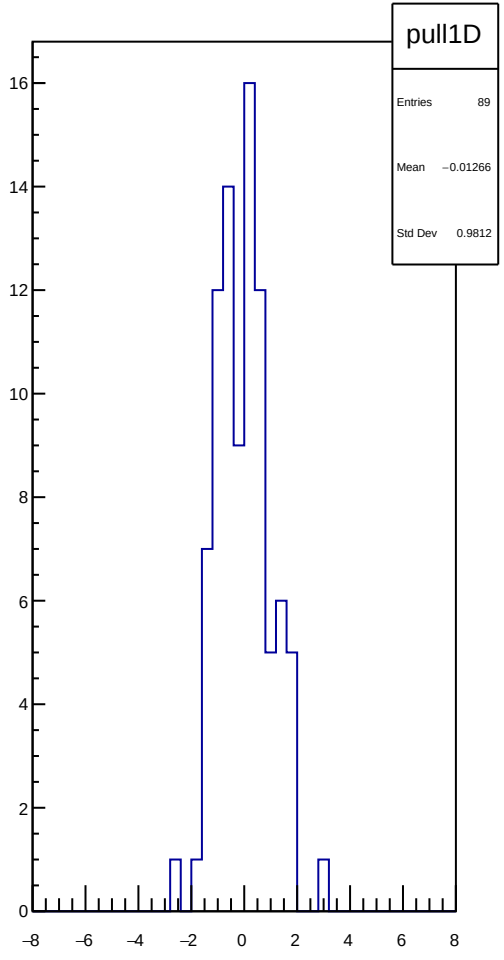

reg_asym_at1_avg_mean vs run
χ² / ndf 85.71 / 88
p0 4737 ± 1959
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 165
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.01266
Std Dev 0.9812
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

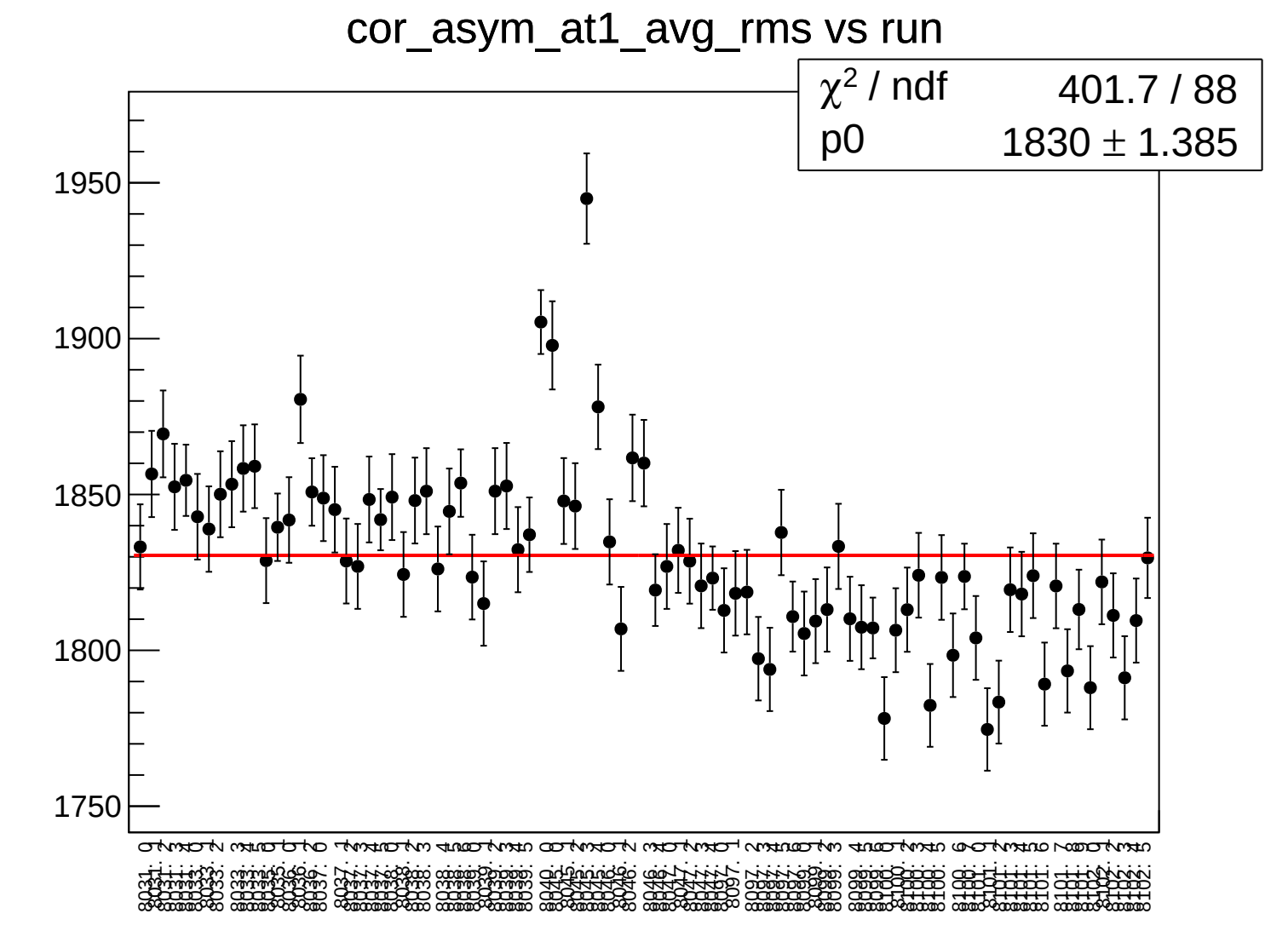

reg_asym_at1_avg_rms vs run
$\chi^2$ / ndf 401.7 / 88
p0 1830 ± 1.385
1950
1900
1850
1800
1750

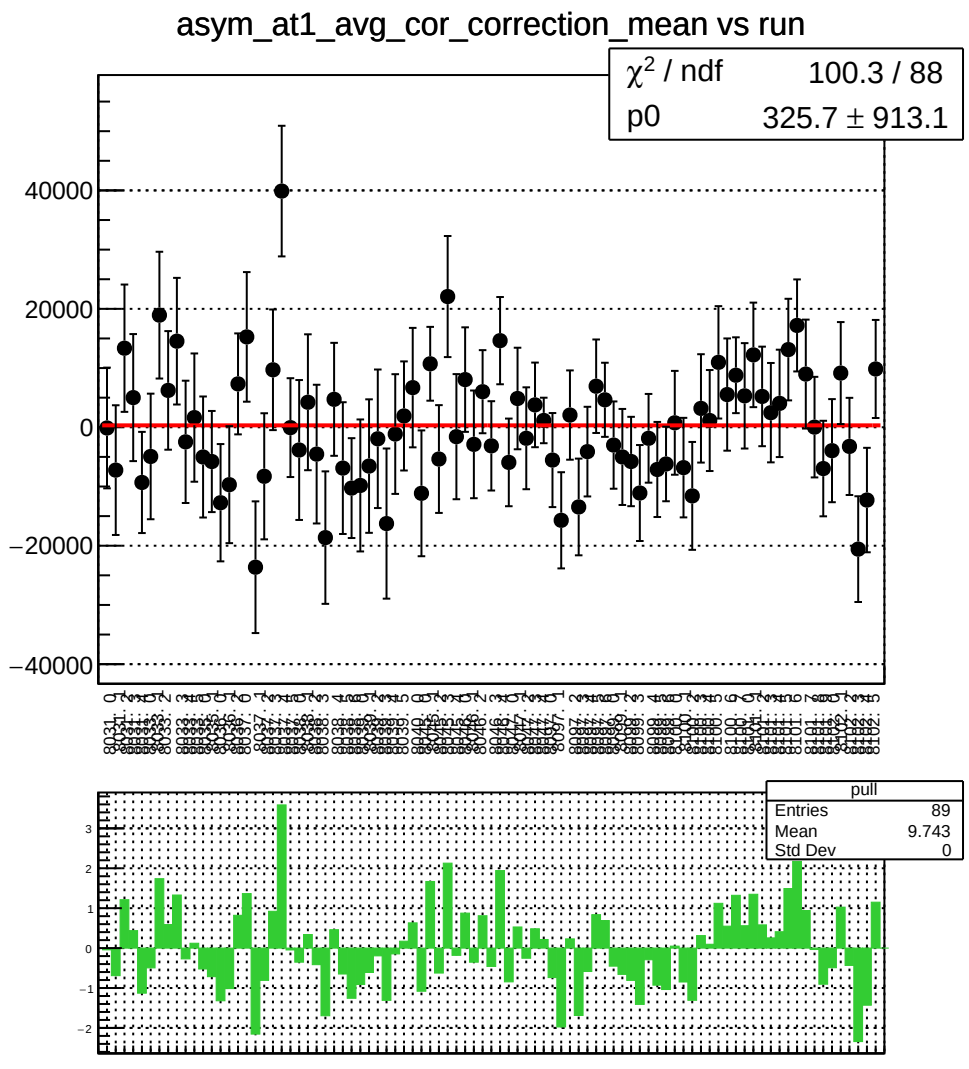

asym_at1_avg_reg_correction_mean vs run
χ² / ndf 100.3 / 88
p0 325.9 ± 913.1
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 9.959
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.01551
Std Dev 1.062
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

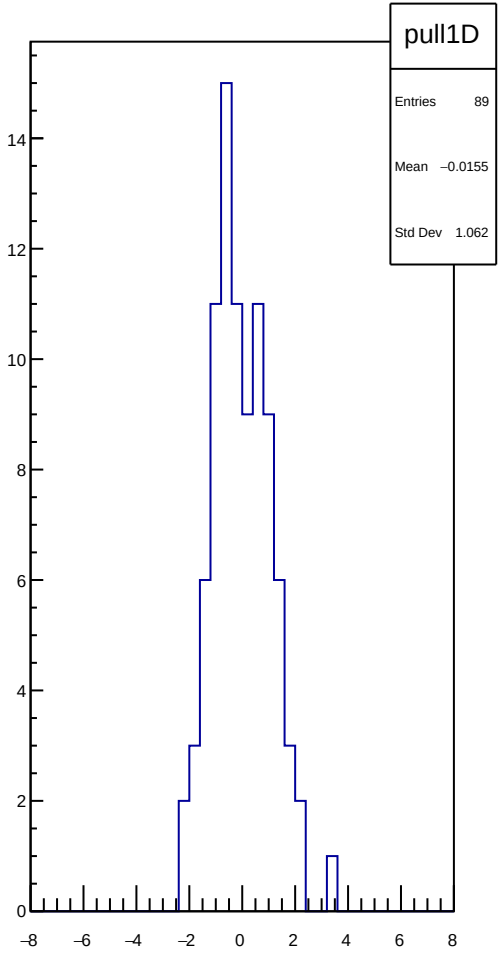

asym_at1_avg_reg_correction_rms vs run
χ² / ndf 5.998e+04 / 88
p0 838.8 ± 0.6457
1400
1200
1000
800
600

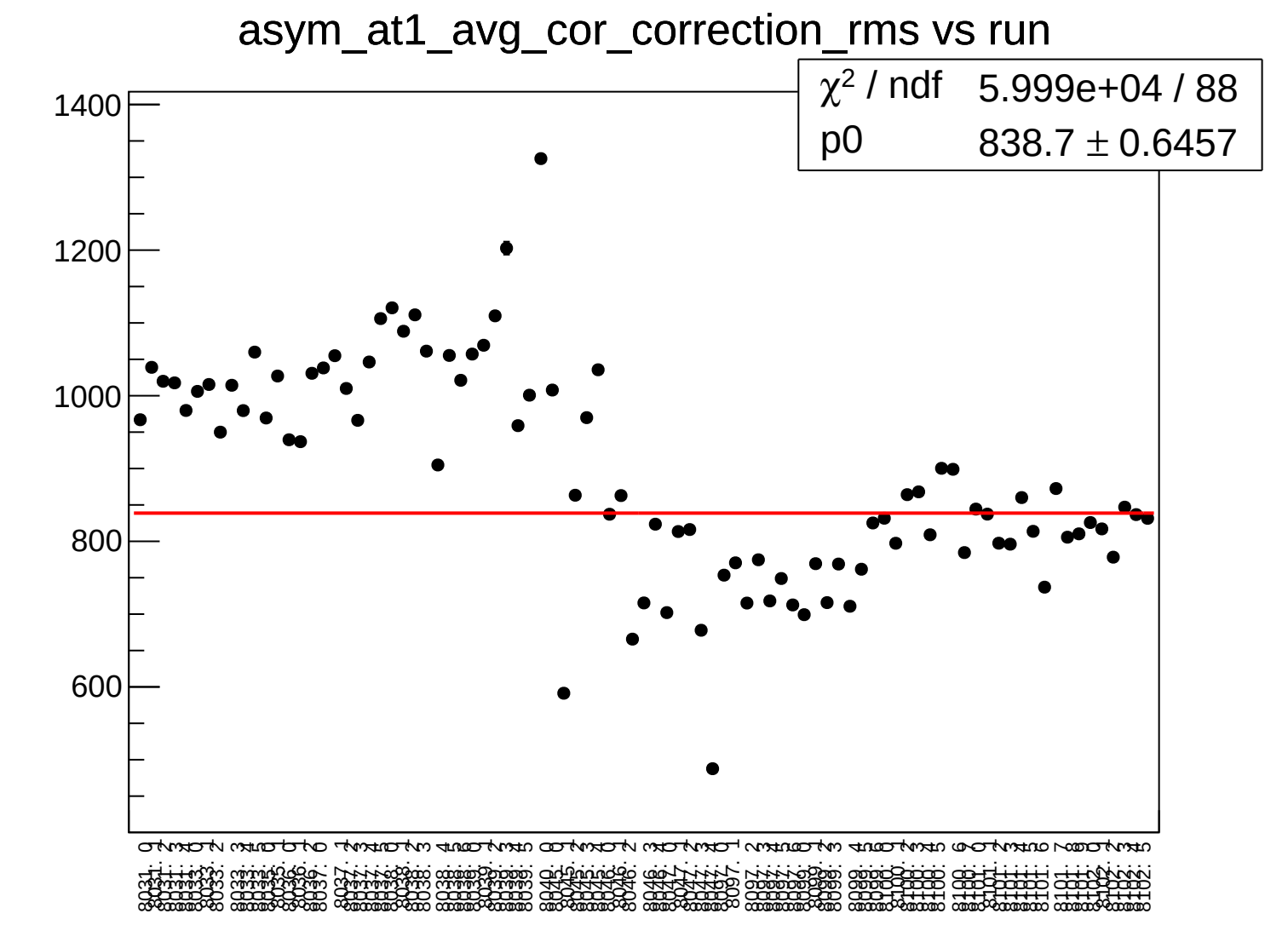

cor_asym_at1_avg_mean vs run
χ² / ndf 85.7 / 88
p0 4737 ± 1959
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 164.9
Std Dev 0
3
2
1
0
−1
−2

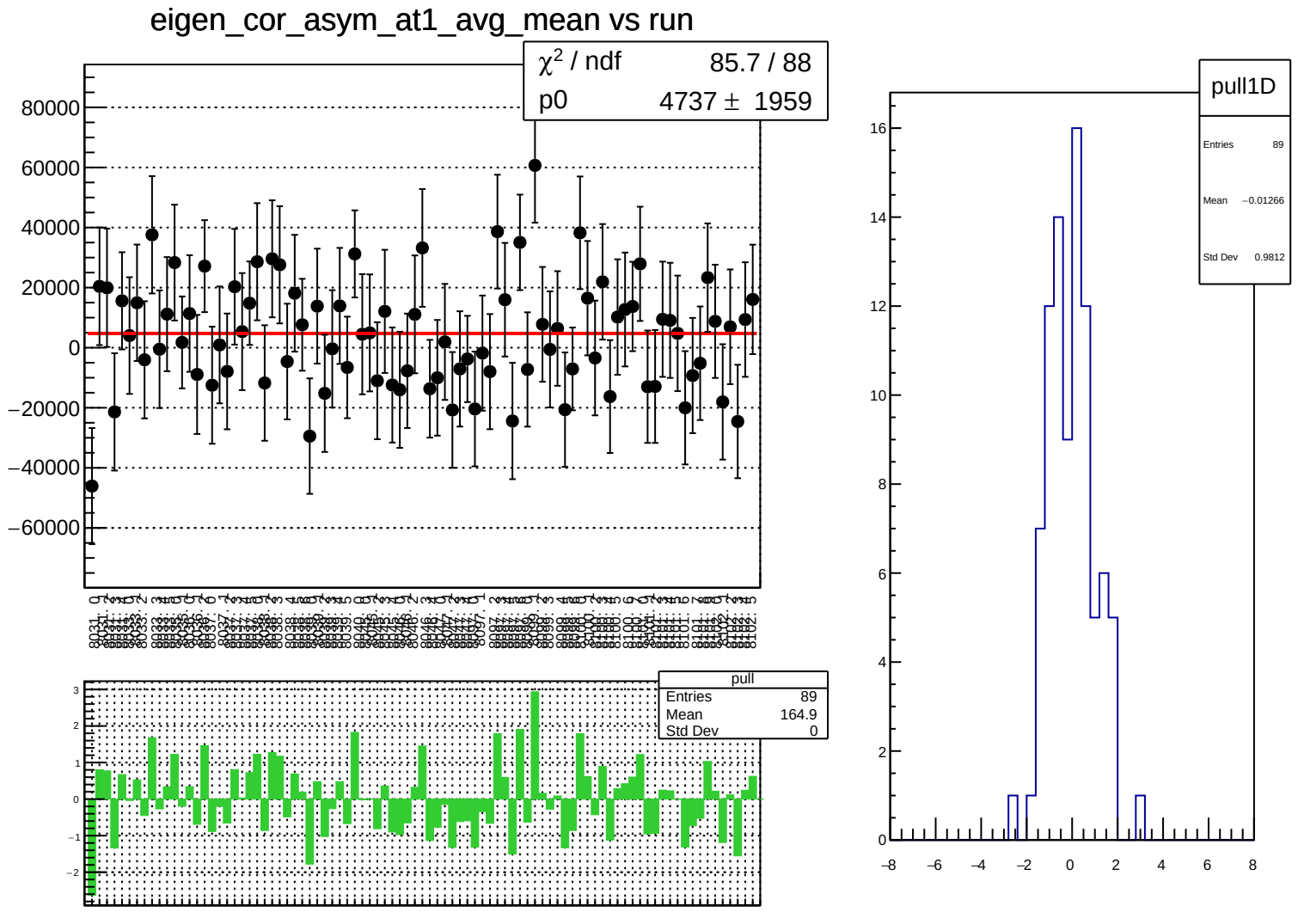

pull1D
Entries 89
Mean −0.01266
Std Dev 0.9812
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

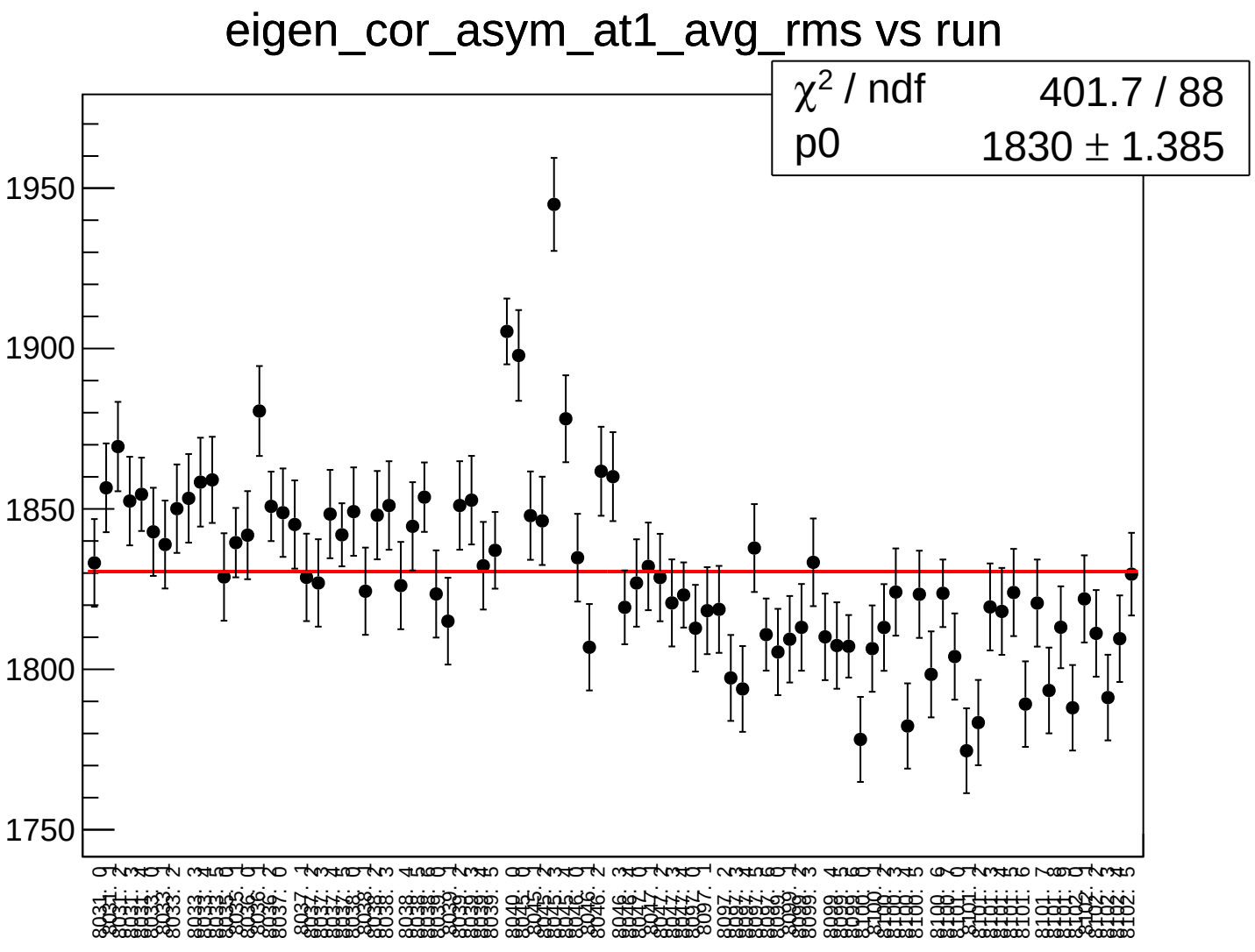

cor_asym_at1_avg_rms vs run
χ² / ndf 401.7 / 88
p0 1830 ± 1.385
1950
1900
1850
1800
1750

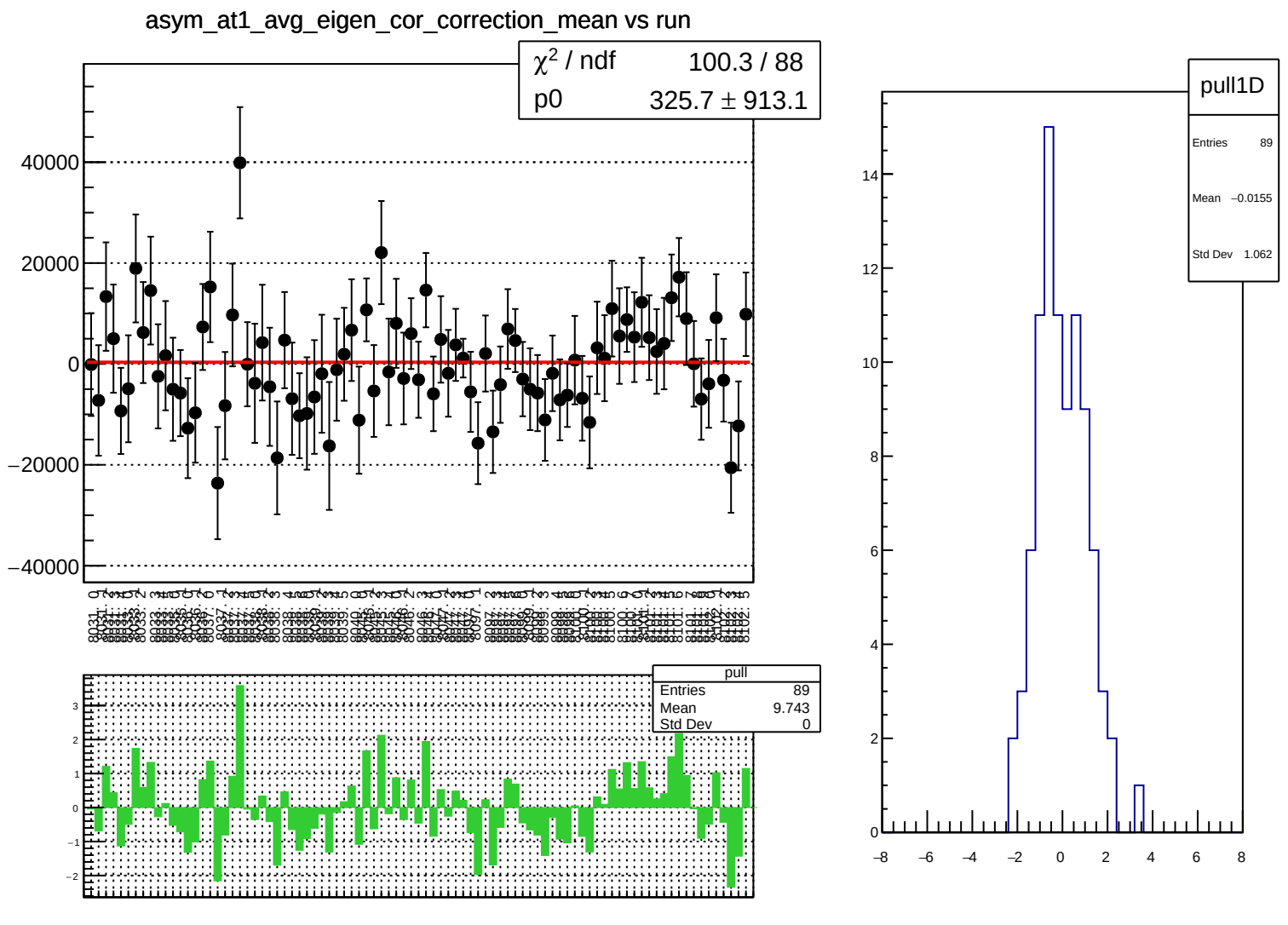

asym_at1_avg_cor_correction_mean vs run
χ² / ndf 100.3 / 88
p0 325.7 ± 913.1
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 9.743
Std Dev 0
3
2
1
0
−1
−2

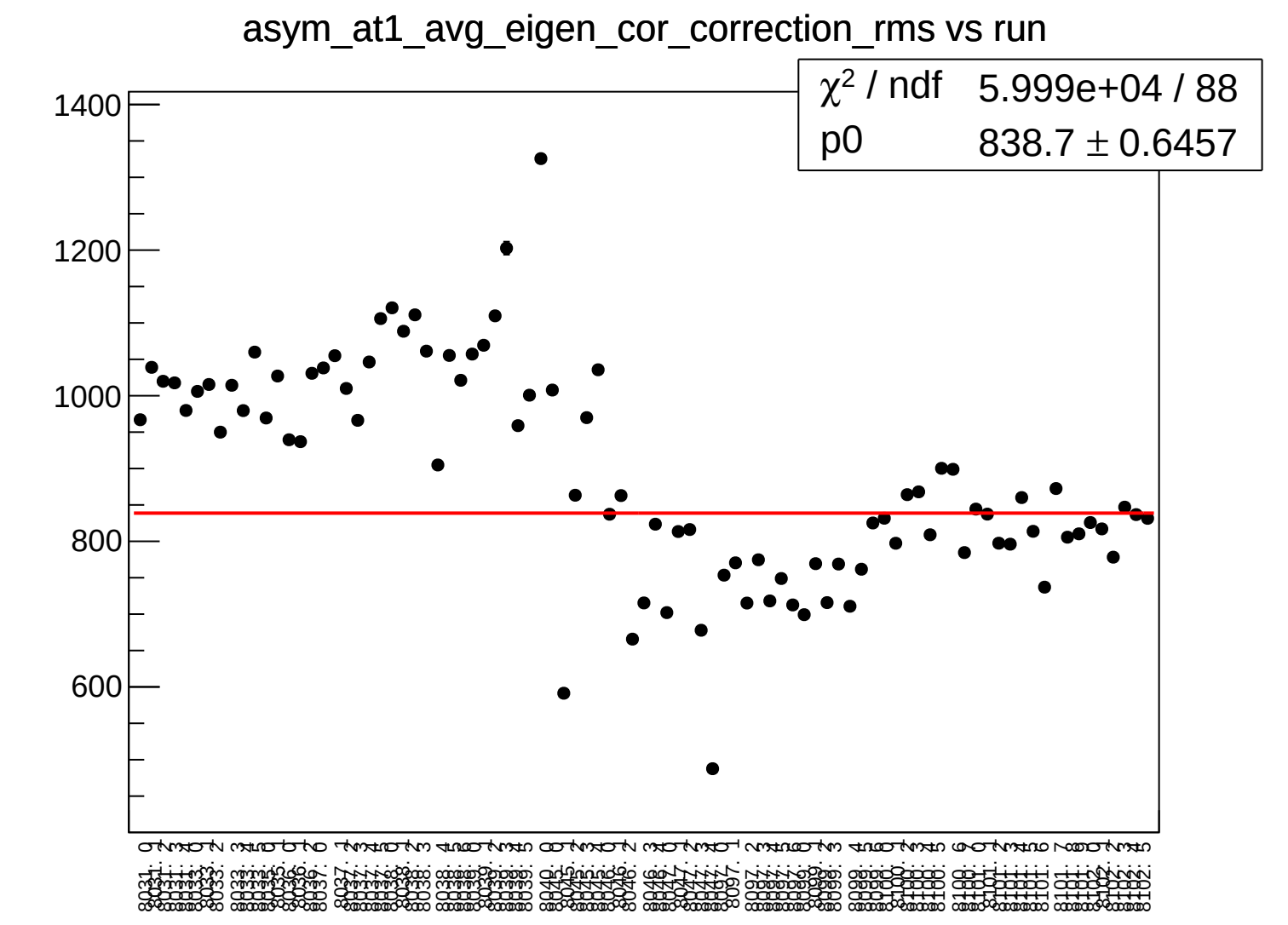

pull1D
Entries 89
Mean −0.0155
Std Dev 1.062
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

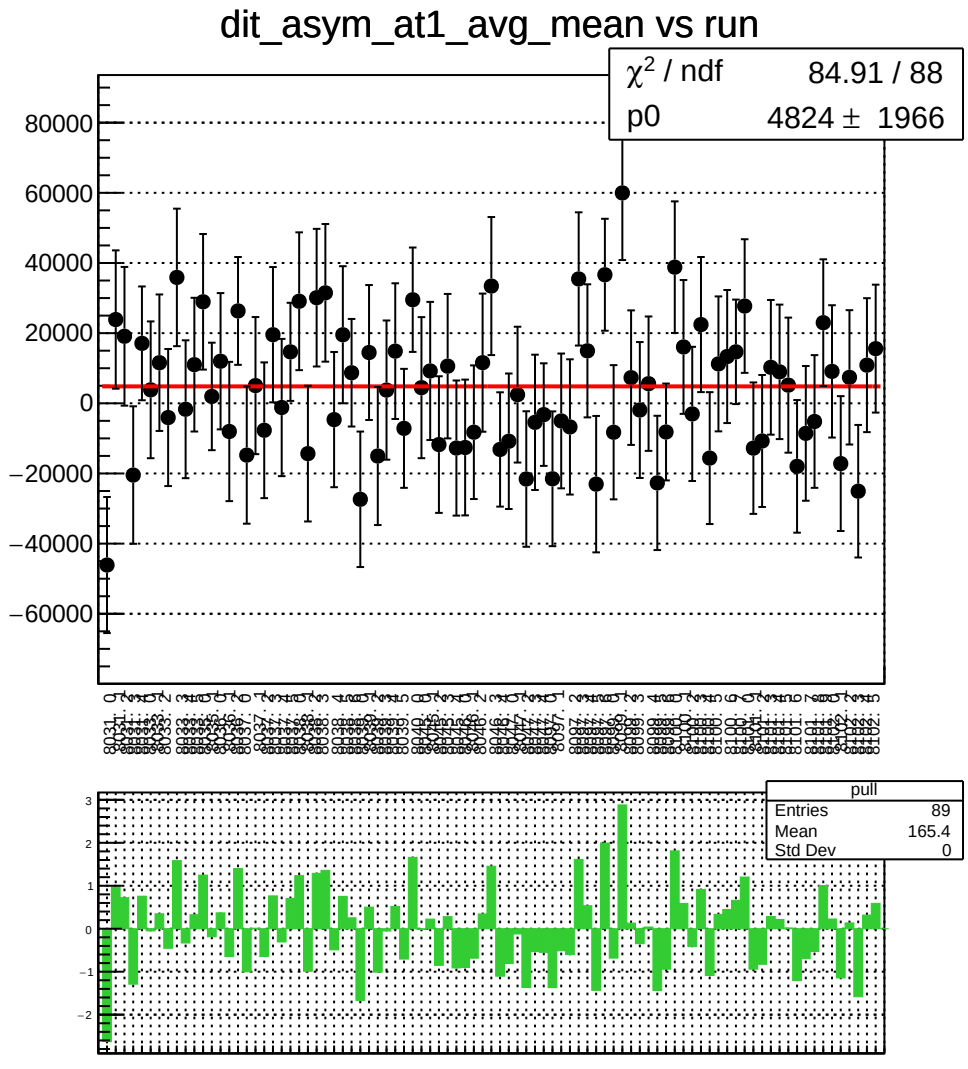

asym_at1_avg_cor_correction_rms vs run
χ² / ndf 5.999e+04 / 88
p0 838.7 ± 0.6457
1400
1200
1000
800
600

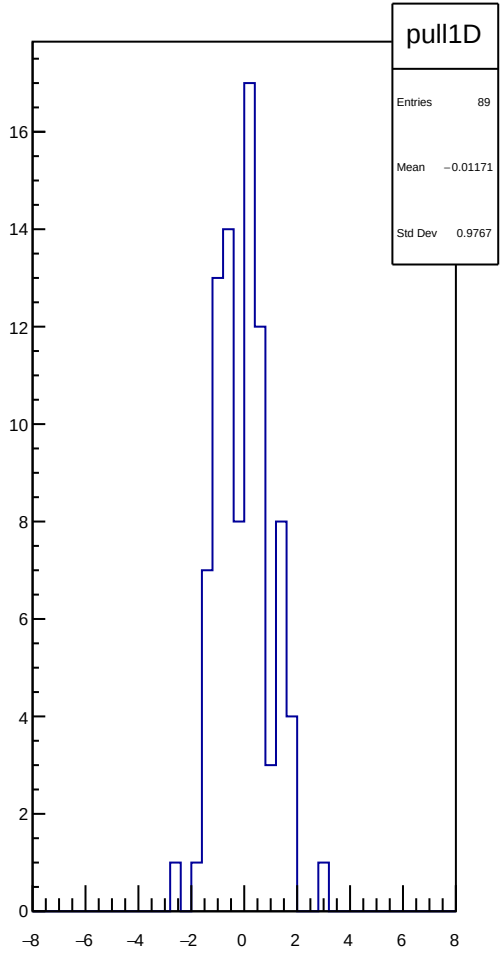

eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 85.7 / 88
p0 4737 ± 1959
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 164.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.01266
Std Dev 0.9812
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

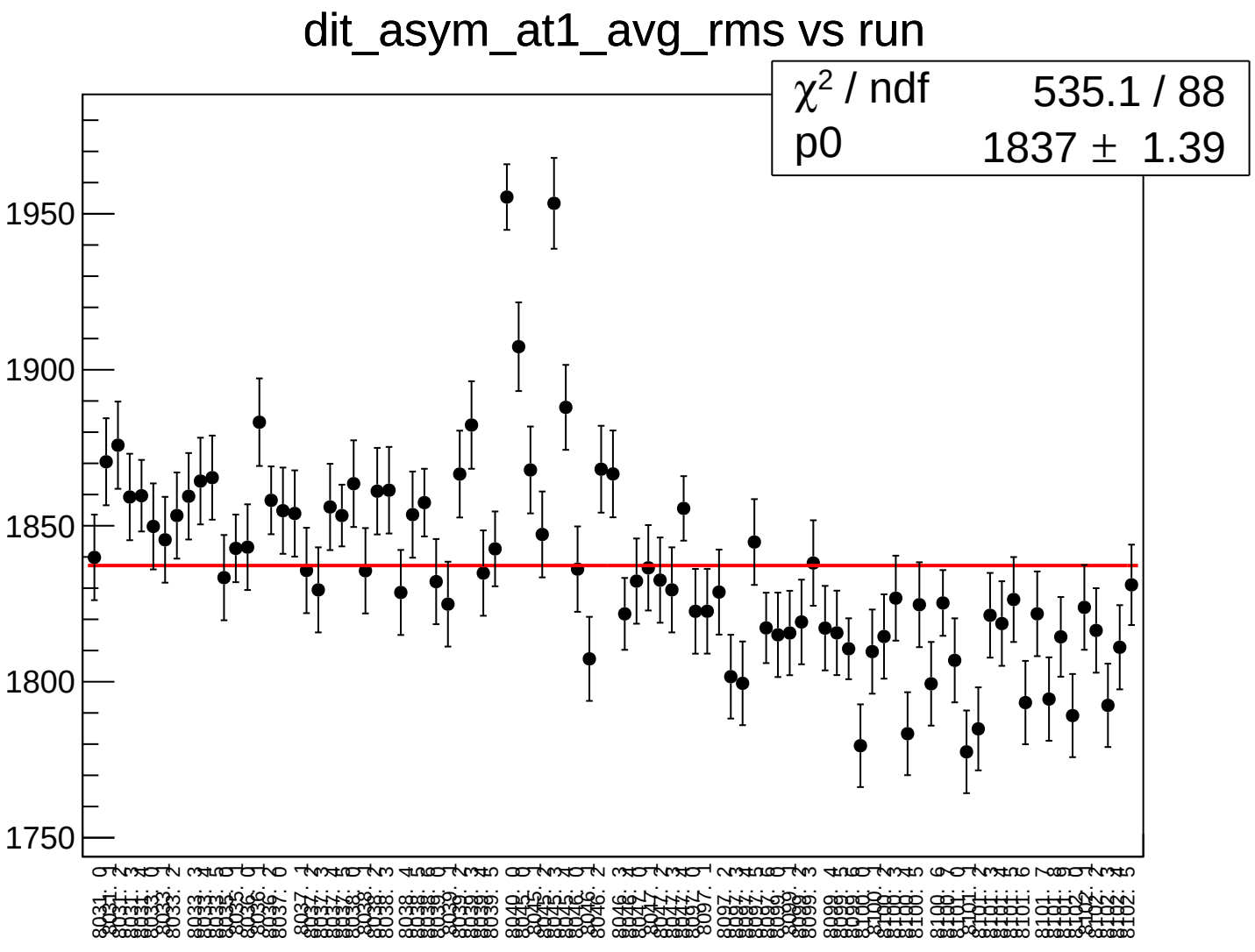

eigen_cor_asym_at1_avg_rms vs run
χ² / ndf 401.7 / 88
p0 1830 ± 1.385
1950
1900
1850
1800
1750

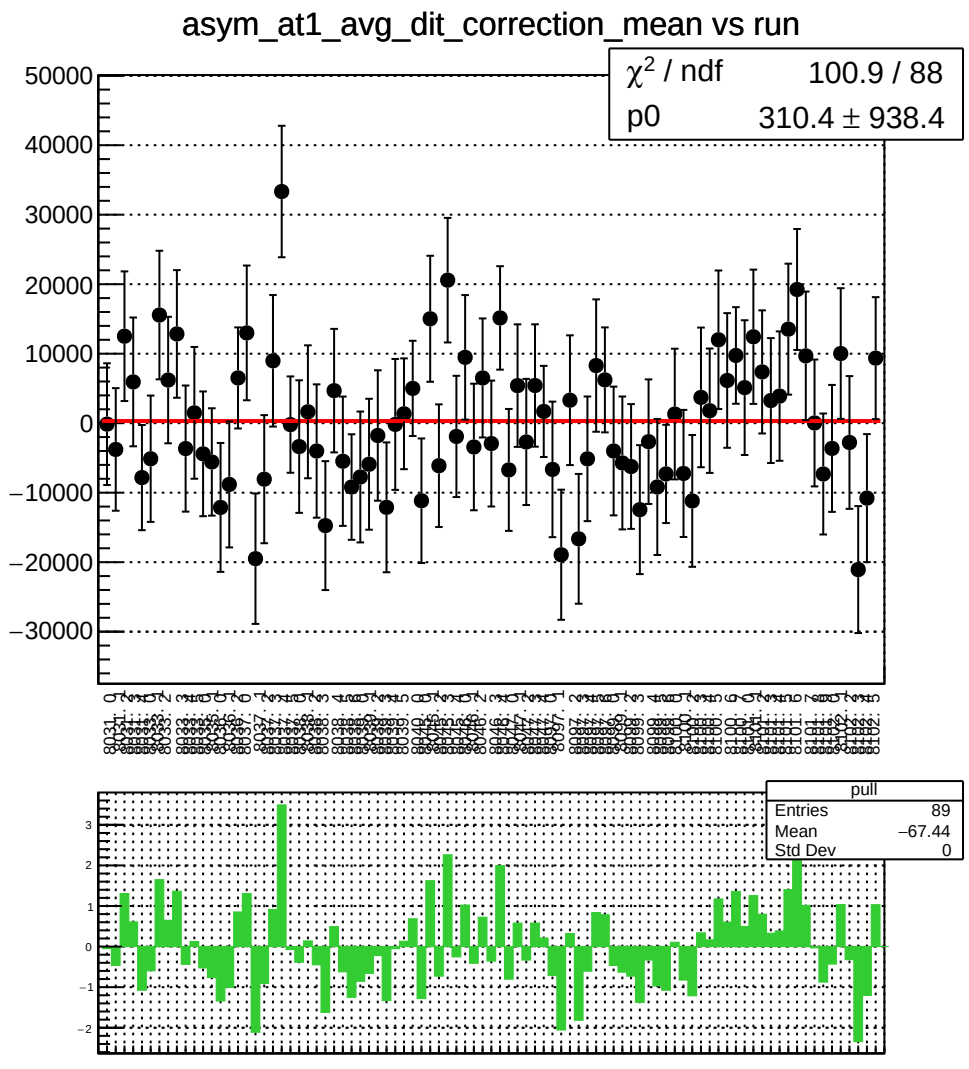

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 100.3 / 88
p0 325.7 ± 913.1
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 9.743
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.0155
Std Dev 1.062
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

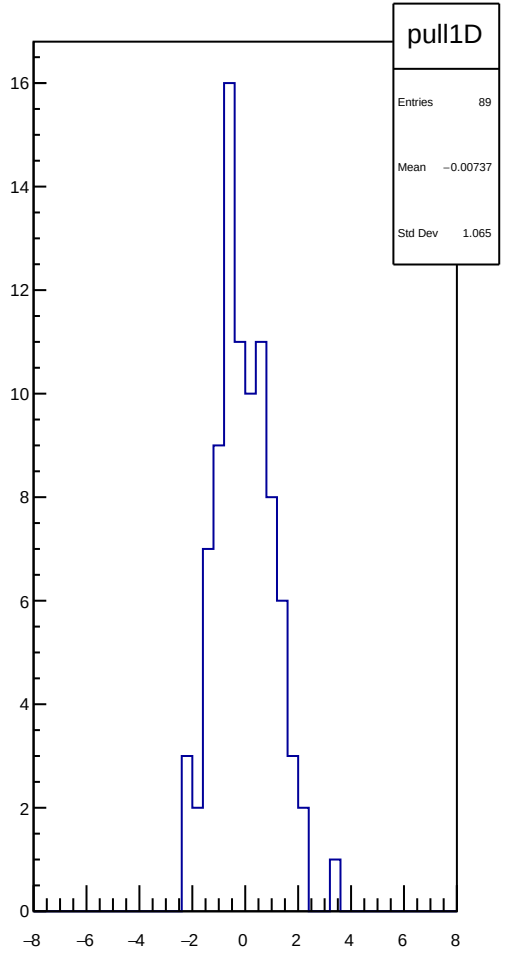

asym_at1_avg_eigen_cor_correction_rms vs run
χ² / ndf 5.999e+04 / 88
p0 838.7 ± 0.6457
1400
1200
1000
800
600

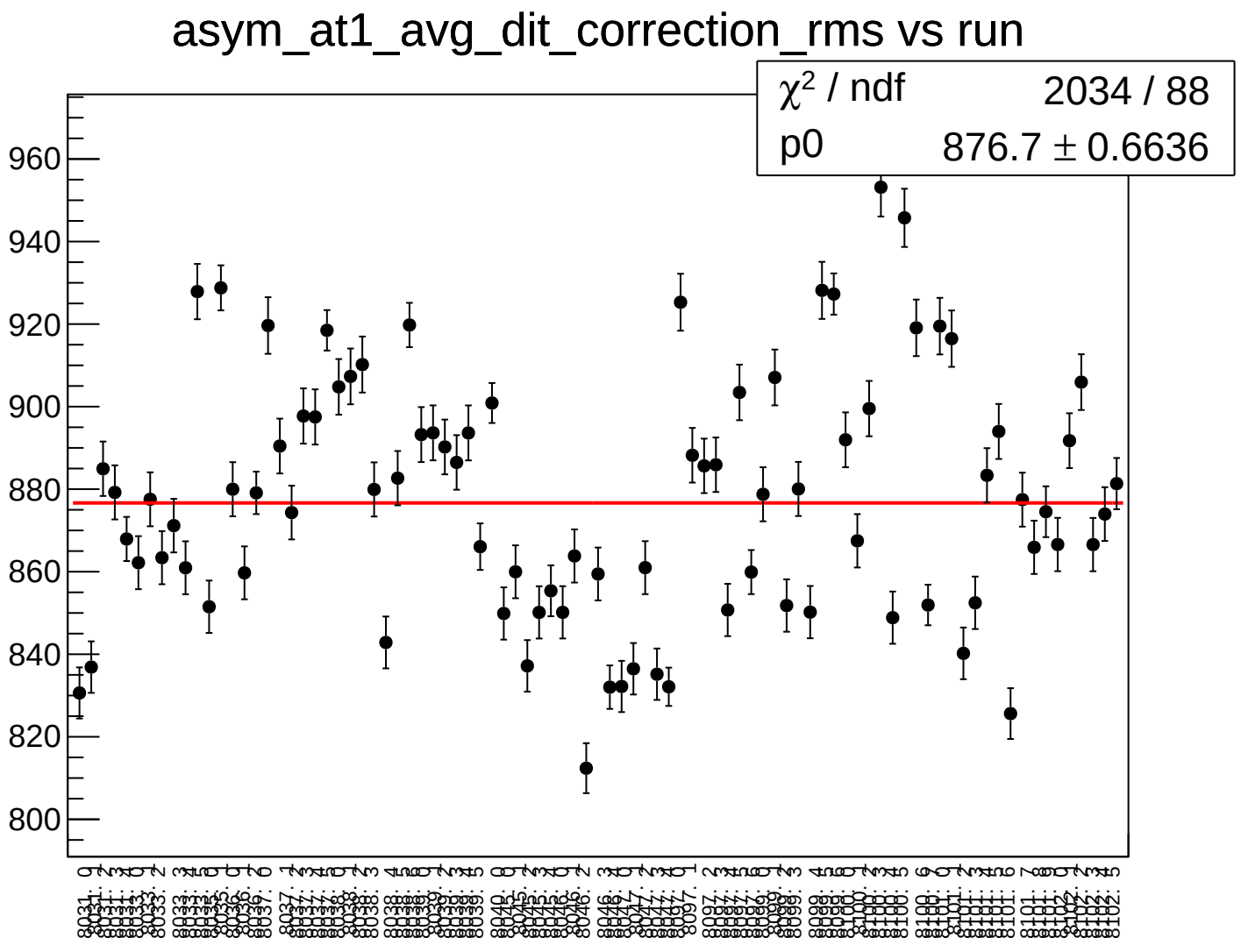

dit_asym_at1_avg_mean vs run
χ² / ndf 84.91 / 88
p0 4824 ± 1966
pull
Entries 89
Mean 165.4
Std Dev 0

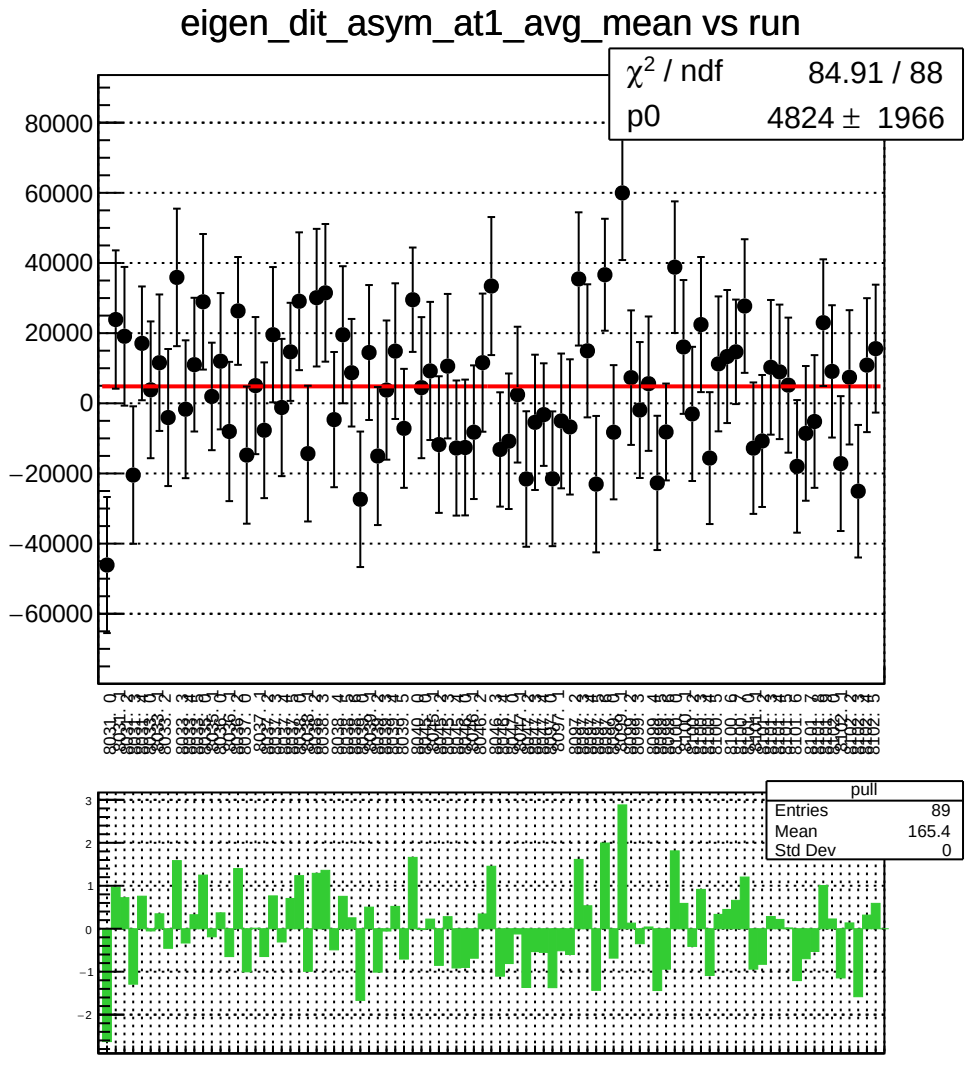

pull1D
Entries 89
Mean −0.01171
Std Dev 0.9767

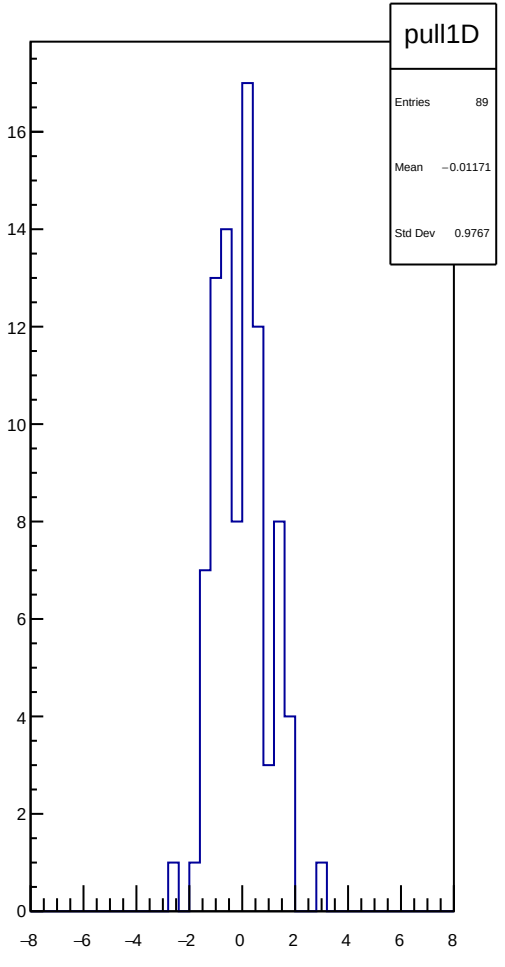

dit_asym_at1_avg_rms vs run
χ² / ndf 535.1 / 88
p0 1837 ± 1.39
1950
1900
1850
1800
1750

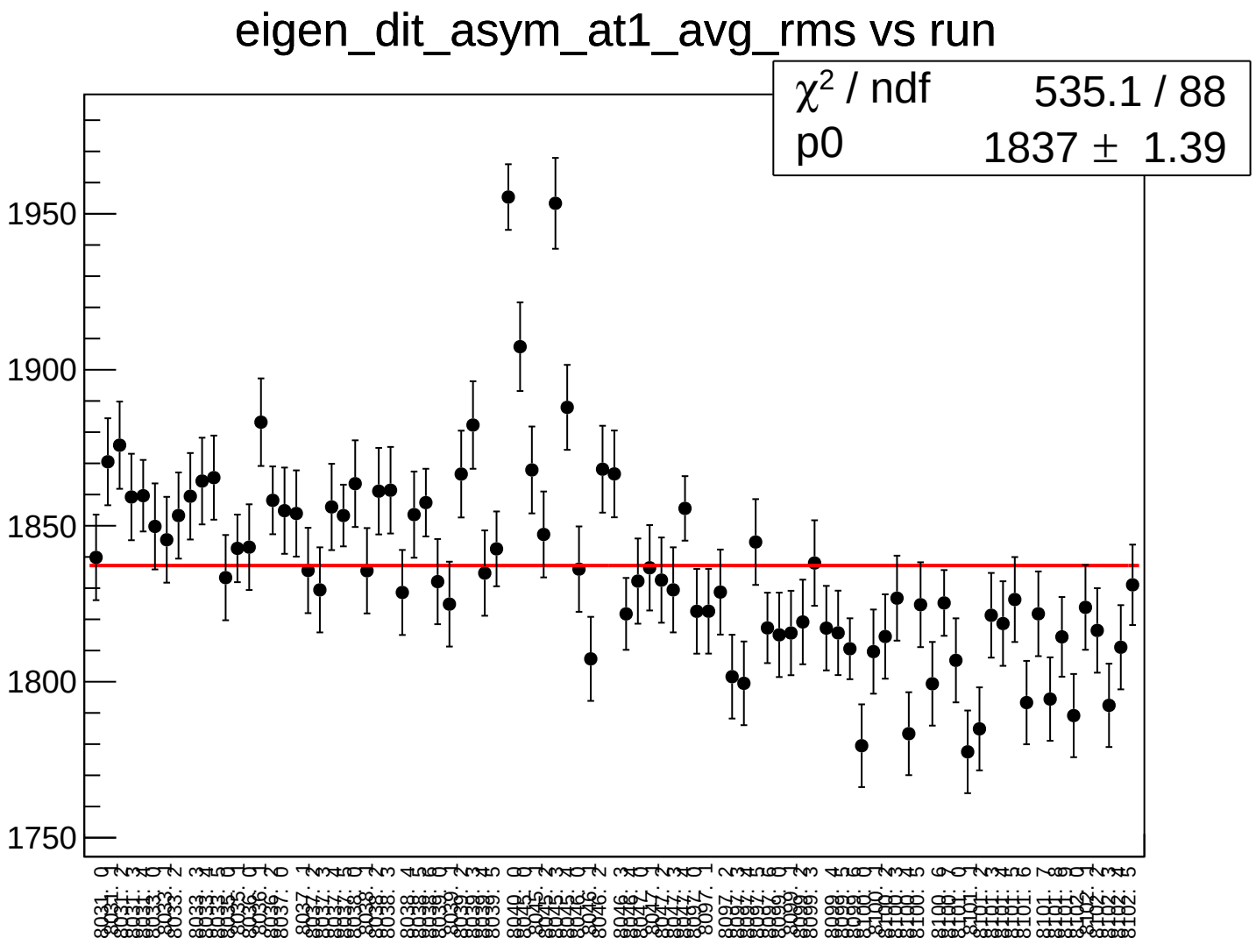

asym_at1_avg_dit_correction_mean vs run
χ² / ndf 100.9 / 88
p0 310.4 ± 938.4
pull
Entries 89
Mean −67.44
Std Dev 0

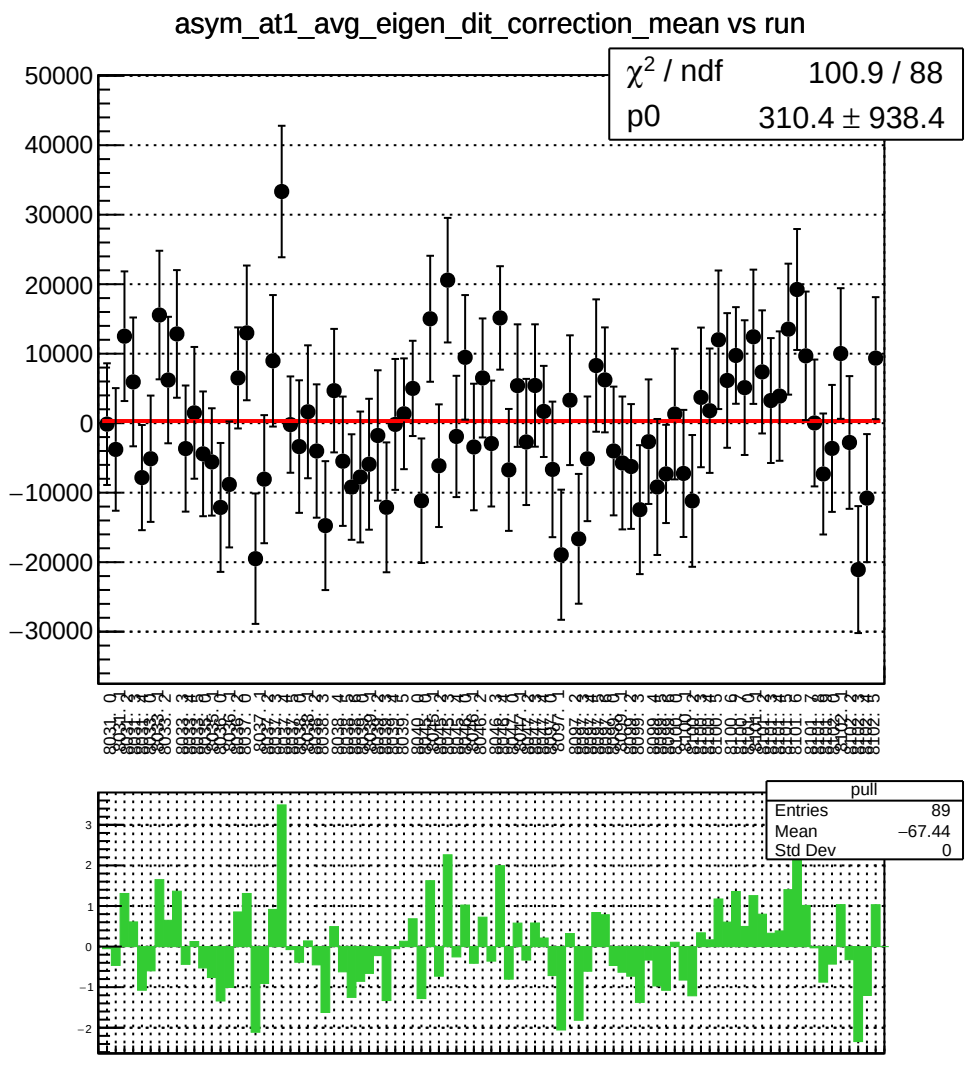

pull1D
Entries 89
Mean −0.00737
Std Dev 1.065

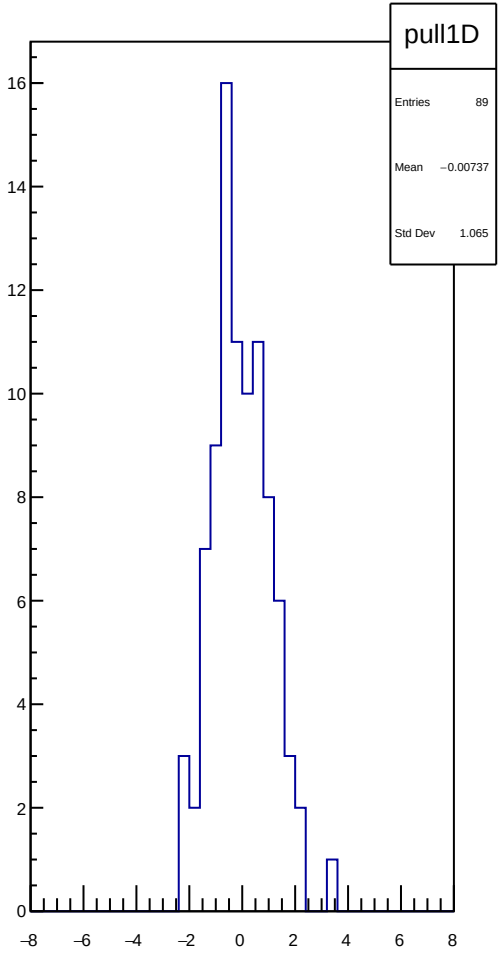

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 2034 / 88
p0 876.7 ± 0.6636
960
940
920
900
880
860
840
820
800

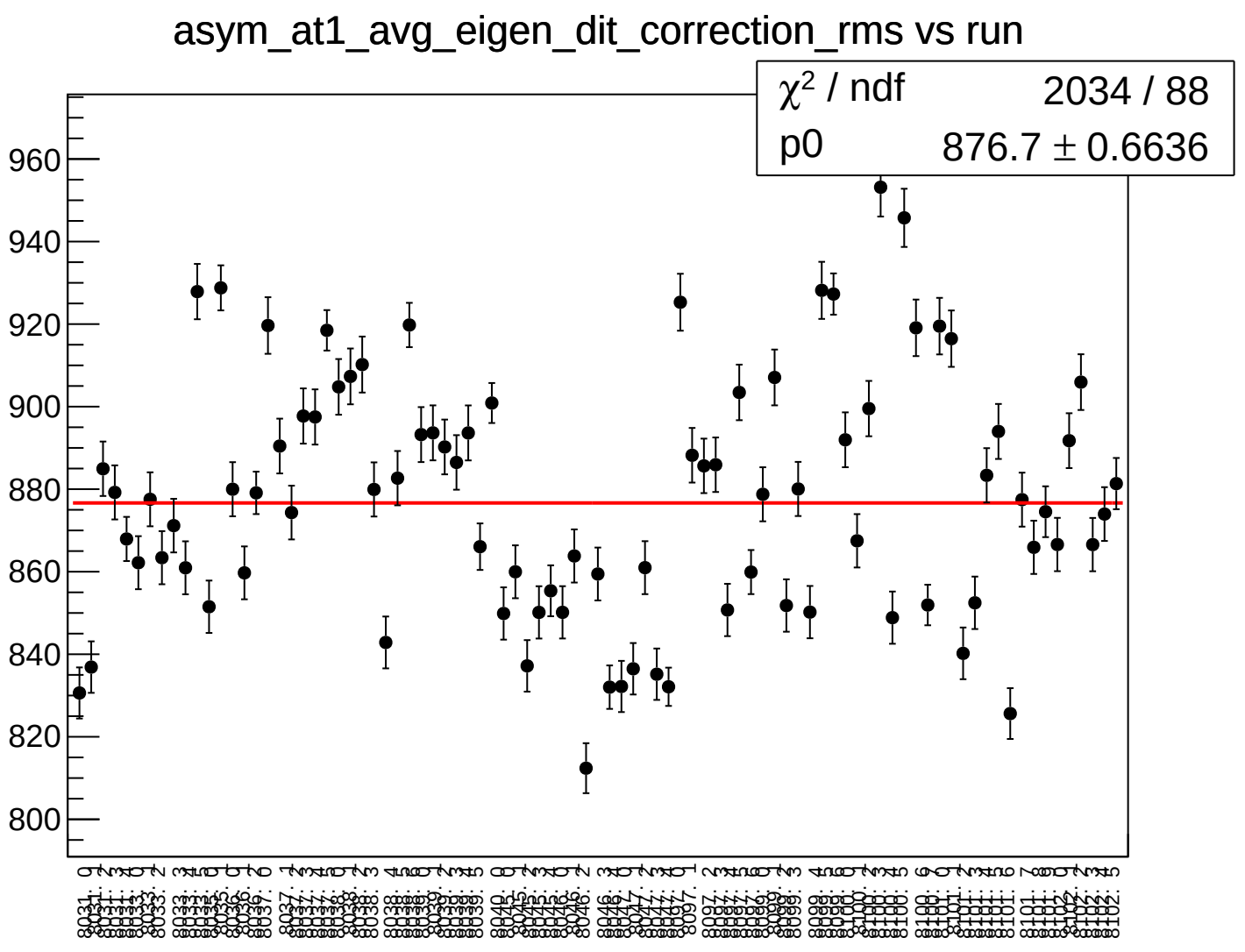

eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 84.91 / 88
p0 4824 ± 1966
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 165.4
Std Dev 0
3
2
1
0
−1
−2

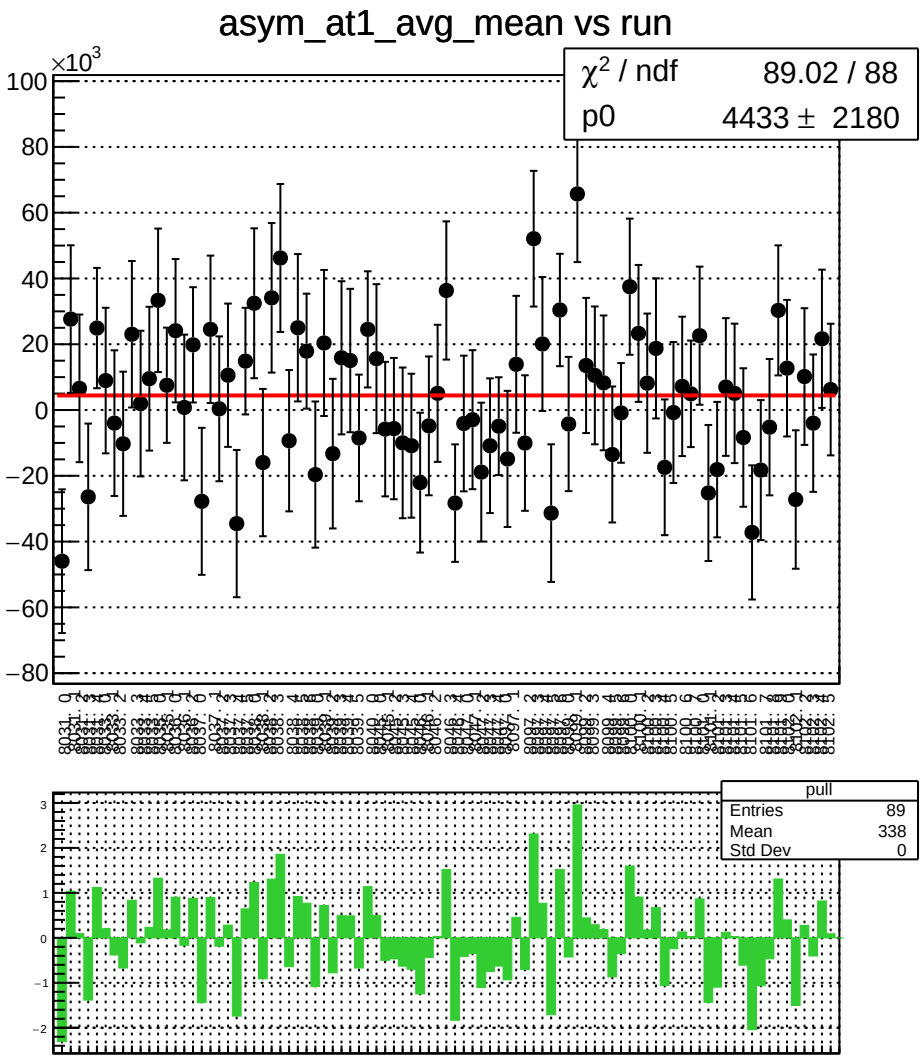

pull1D
Entries 89
Mean −0.01171
Std Dev 0.9767
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

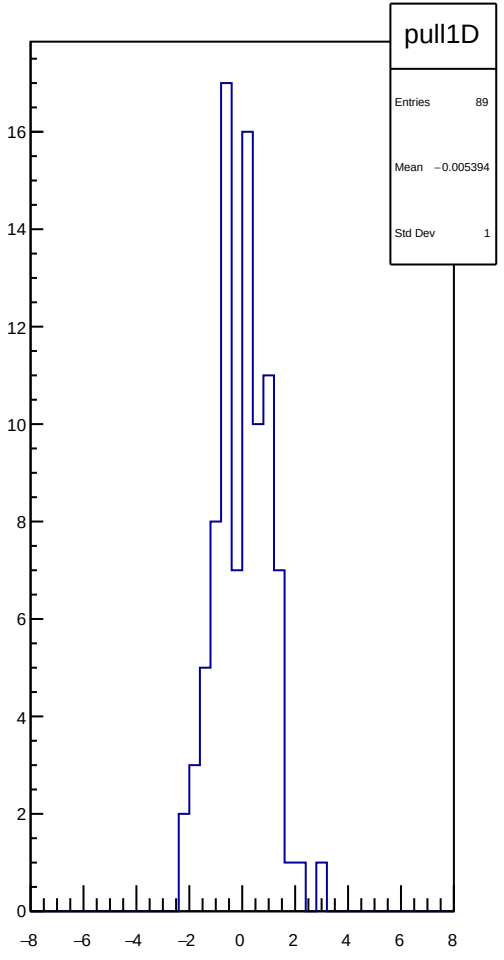

eigen_dit_asym_at1_avg_rms vs run
χ² / ndf 535.1 / 88
p0 1837 ± 1.39
1950
1900
1850
1800
1750

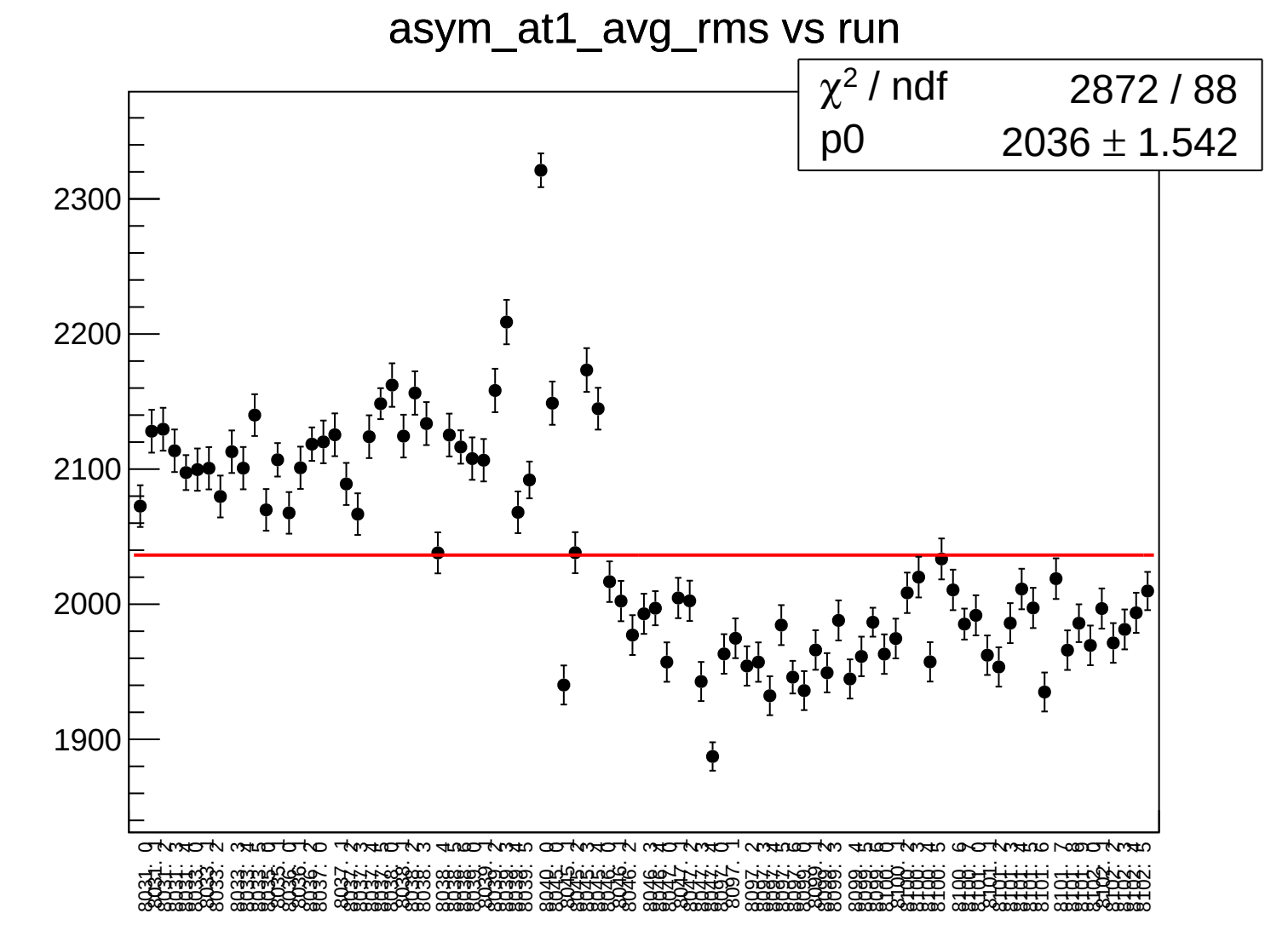

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 100.9 / 88
p0 310.4 ± 938.4
pull
Entries 89
Mean −67.44
Std Dev 0

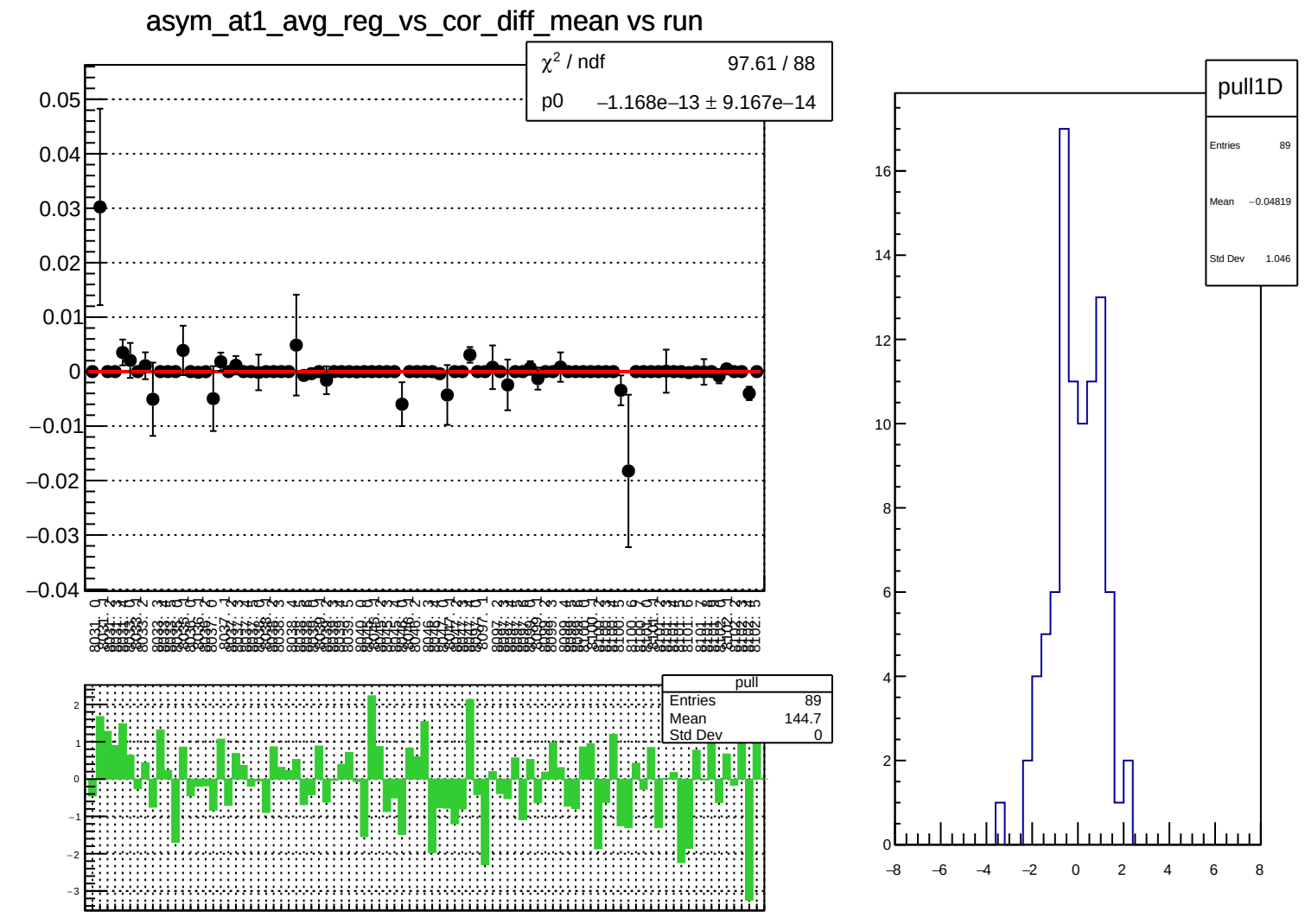

pull1D
Entries 89
Mean −0.00737
Std Dev 1.065

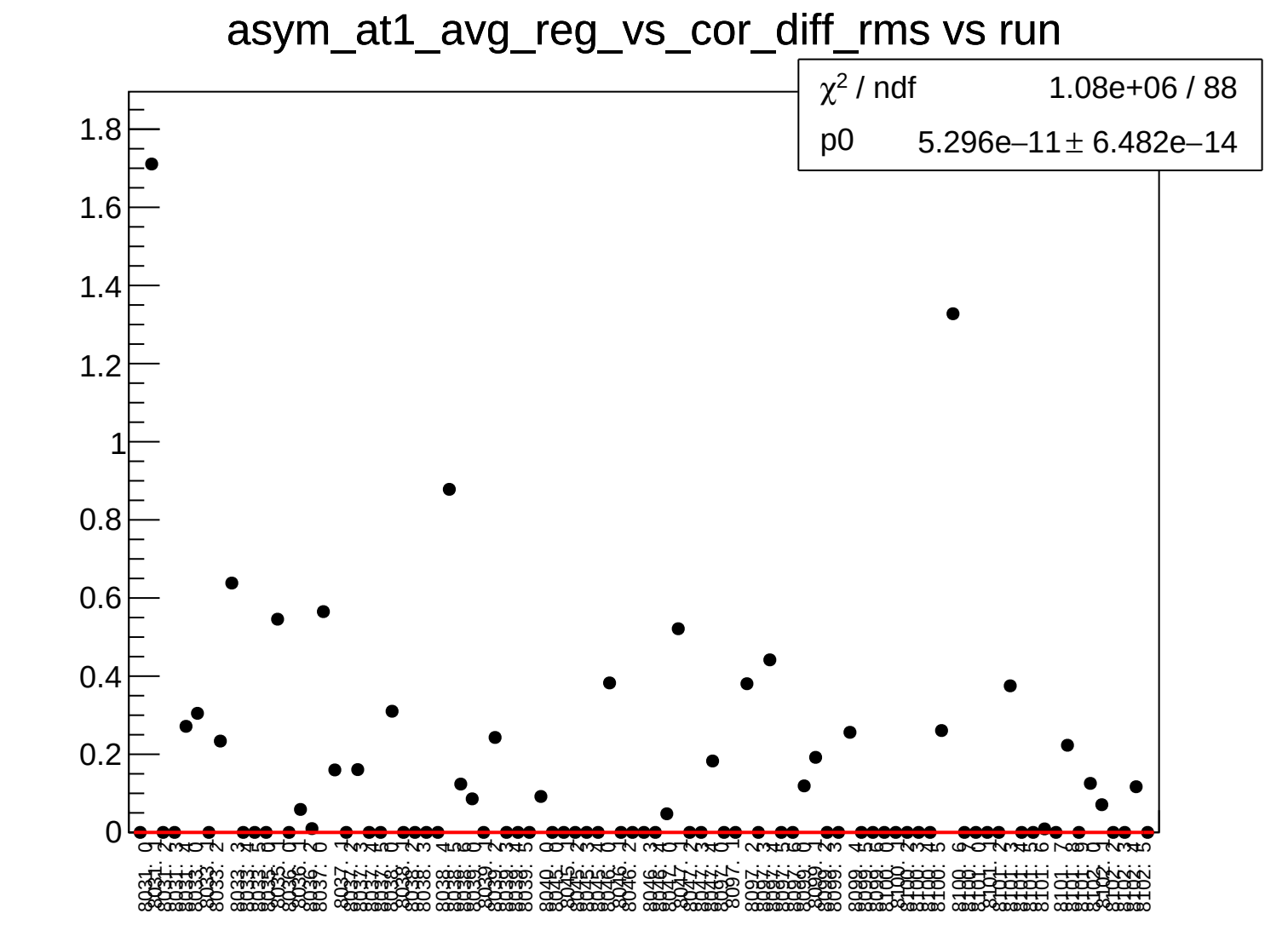

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 2034 / 88
p0 876.7 ± 0.6636
960
940
920
900
880
860
840
820
800

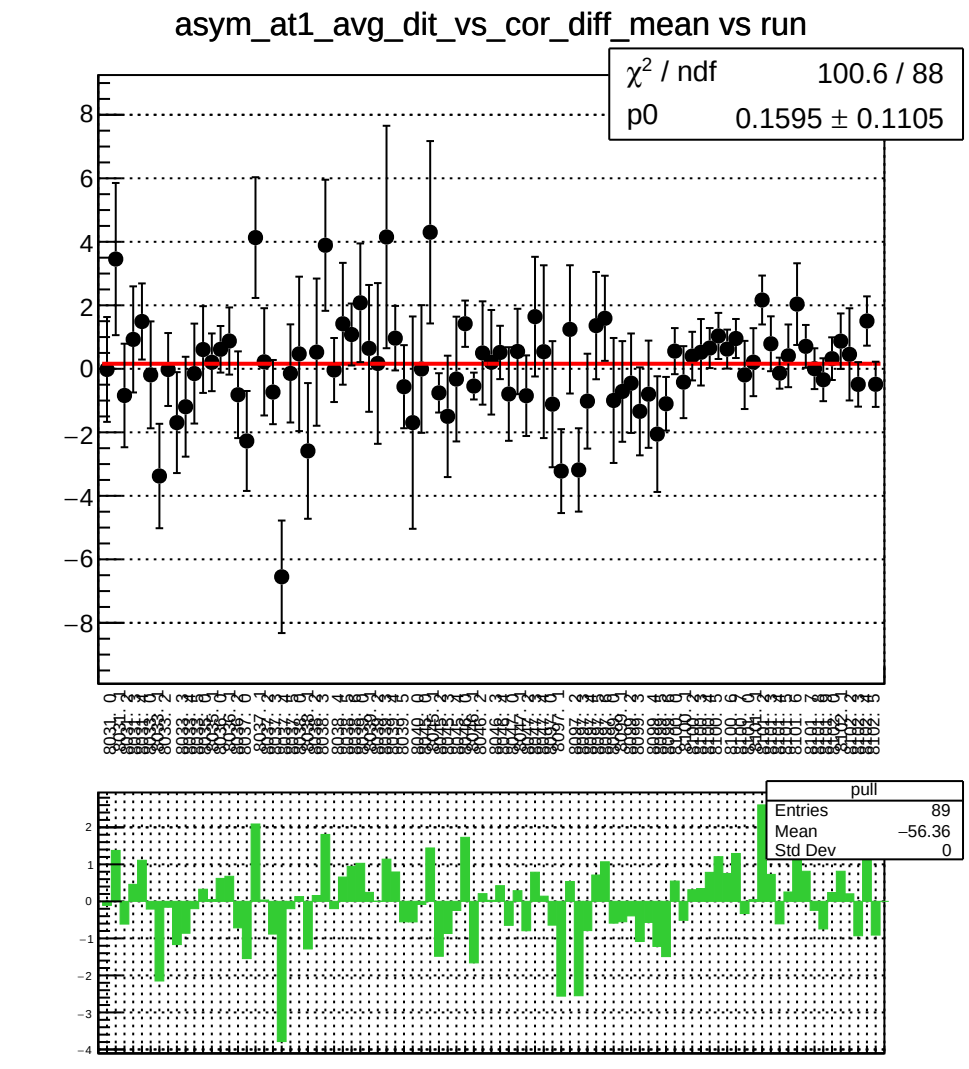

asym_at1_avg_mean vs run
×10^3
χ^2 / ndf 89.02 / 88
p0 4433 ± 2180
pull
Entries 89
Mean 338
Std Dev 0

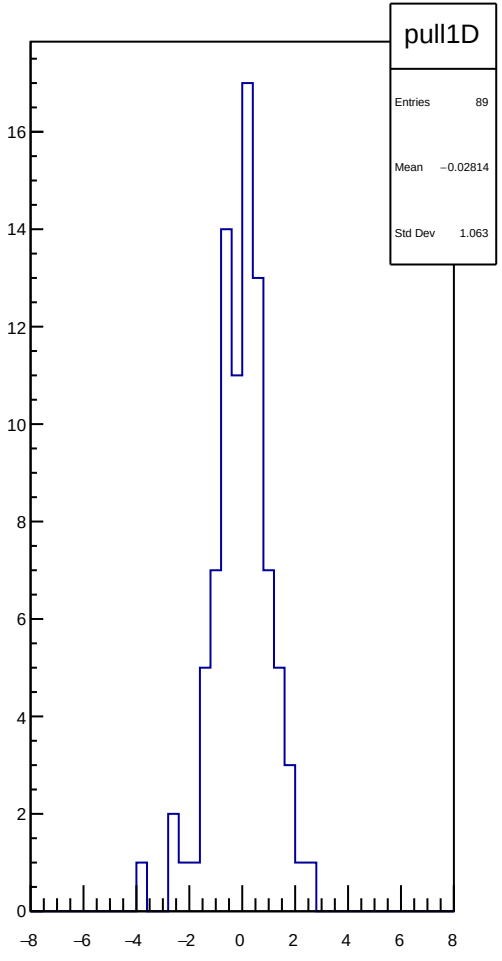

pull1D
Entries 89
Mean −0.005394
Std Dev 1

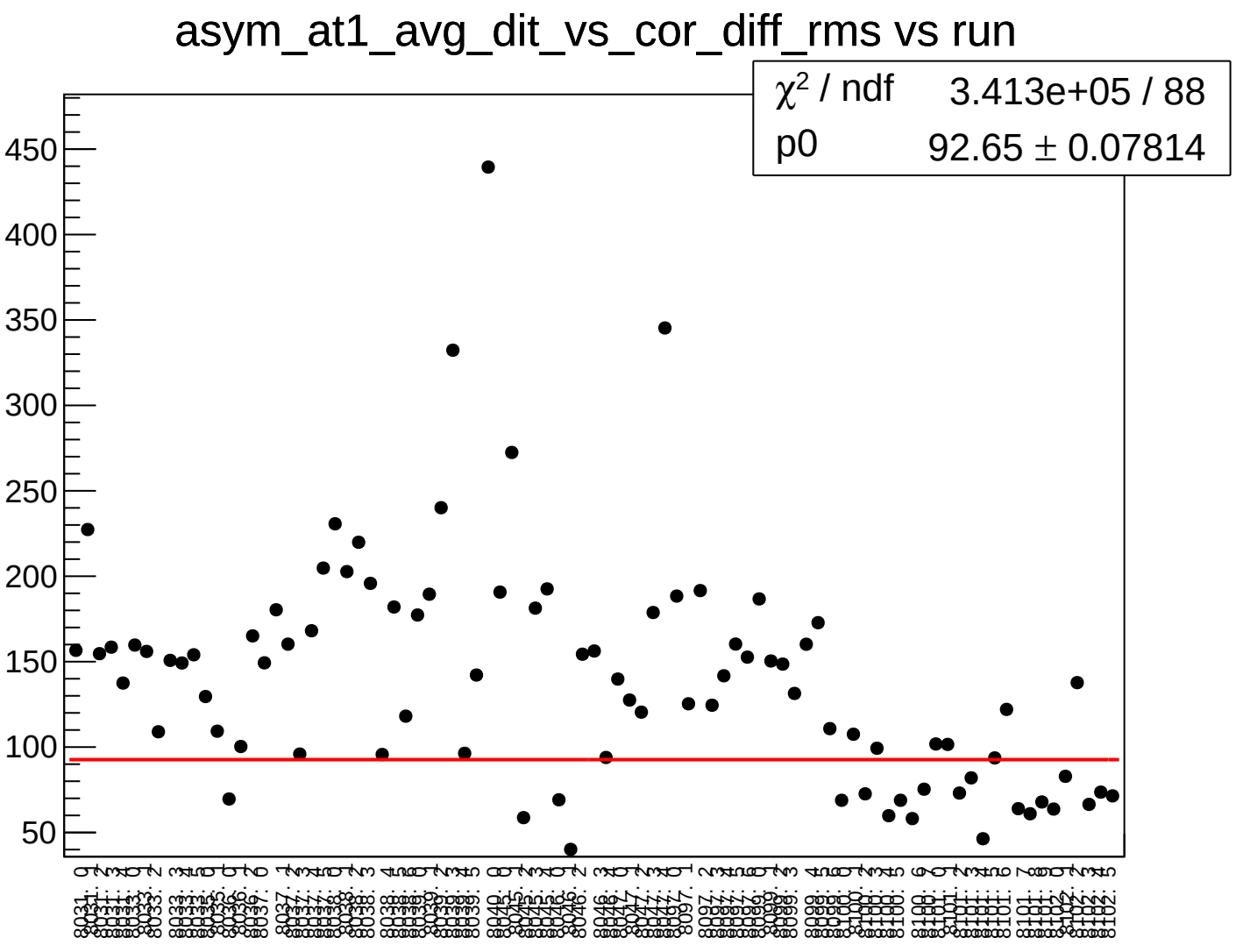

asym_at1_avg_rms vs run
χ² / ndf 2872 / 88
p0 2036 ± 1.542
2300
2200
2100
2000
1900

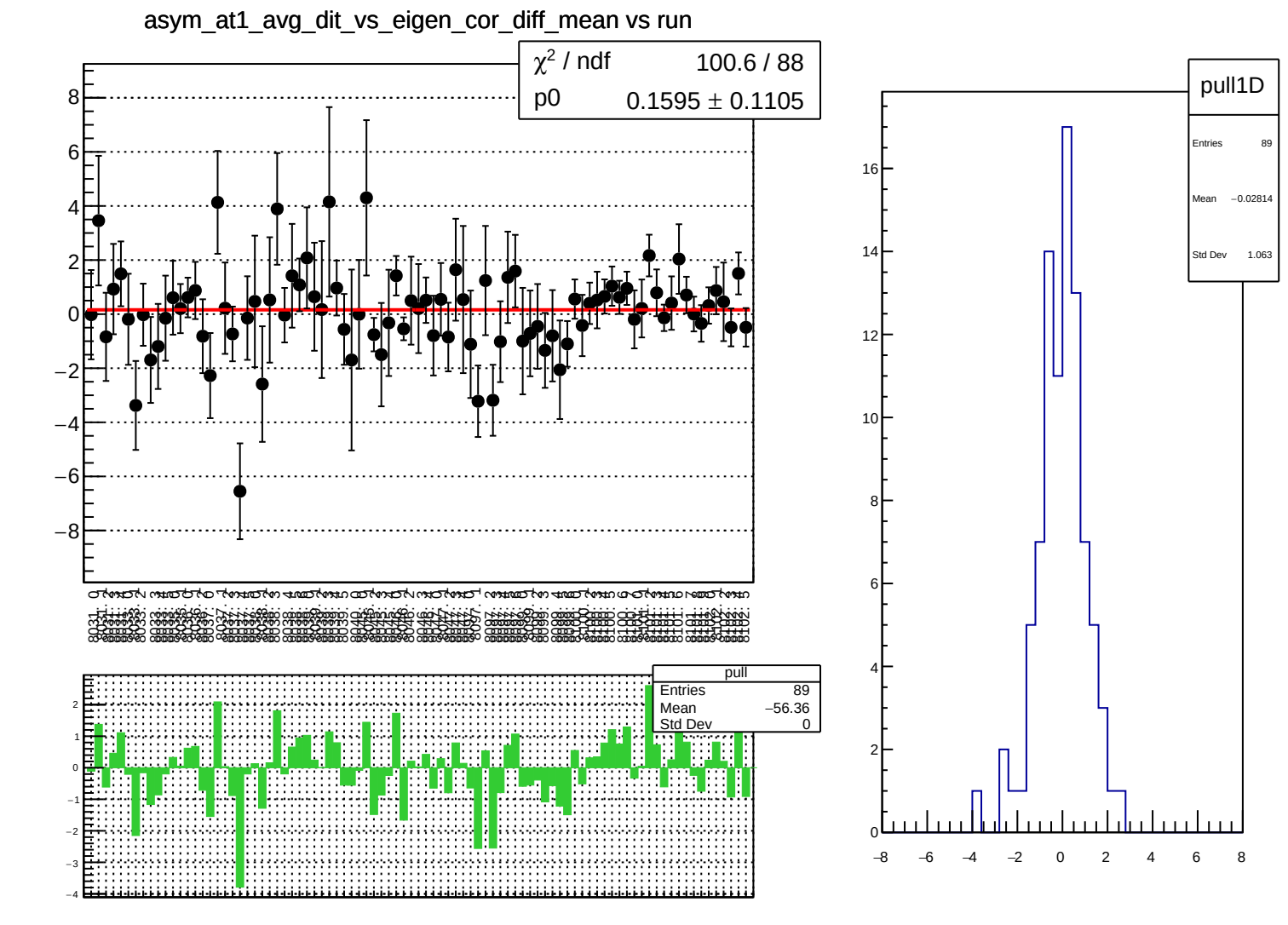

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 97.61 / 88
p0 −1.168e−13 ± 9.167e−14
pull
Entries 89
Mean 144.7
Std Dev 0
pull1D
Entries 89
Mean −0.04819
Std Dev 1.046

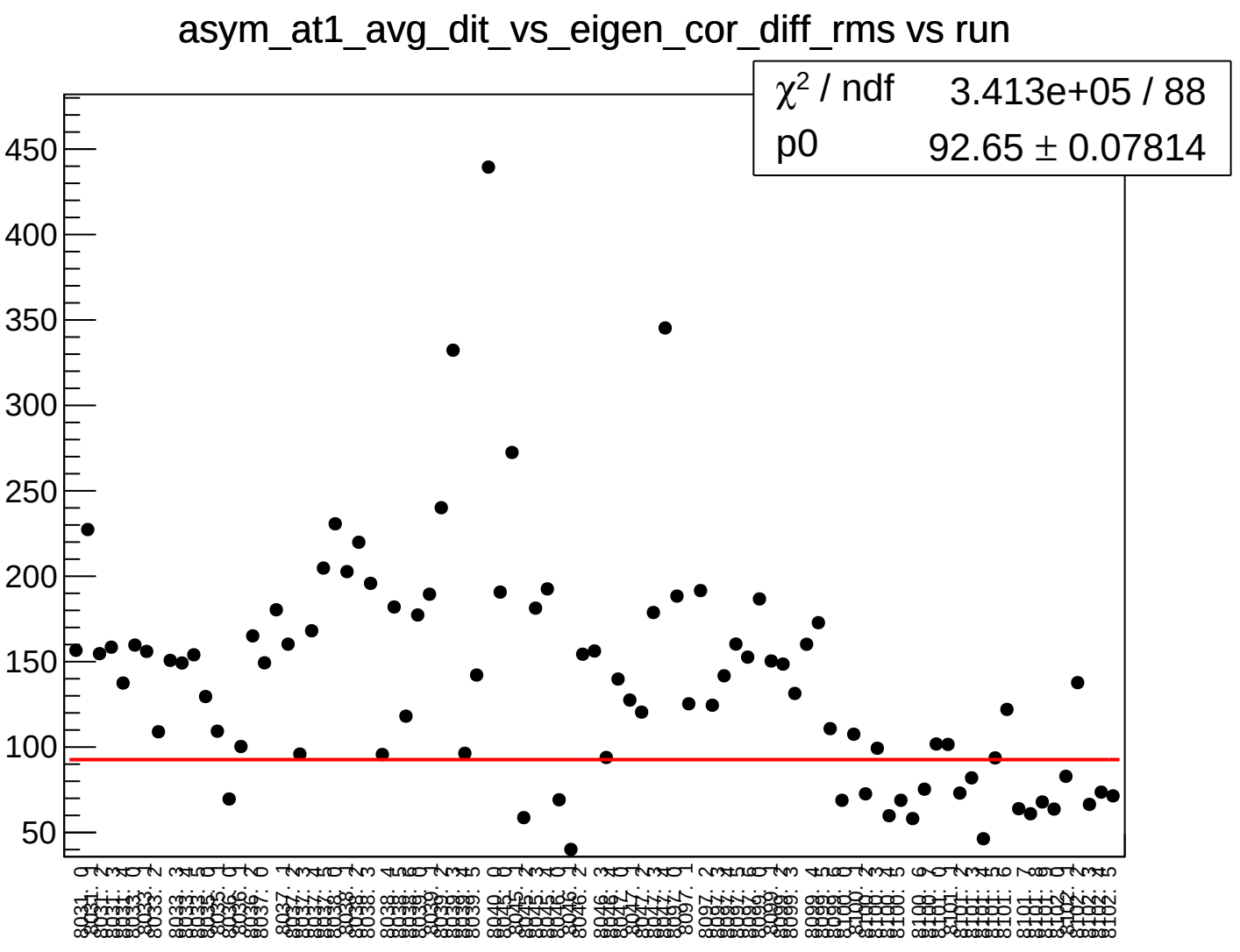

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.08e+06 / 88
p0 5.296e−11 ± 6.482e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

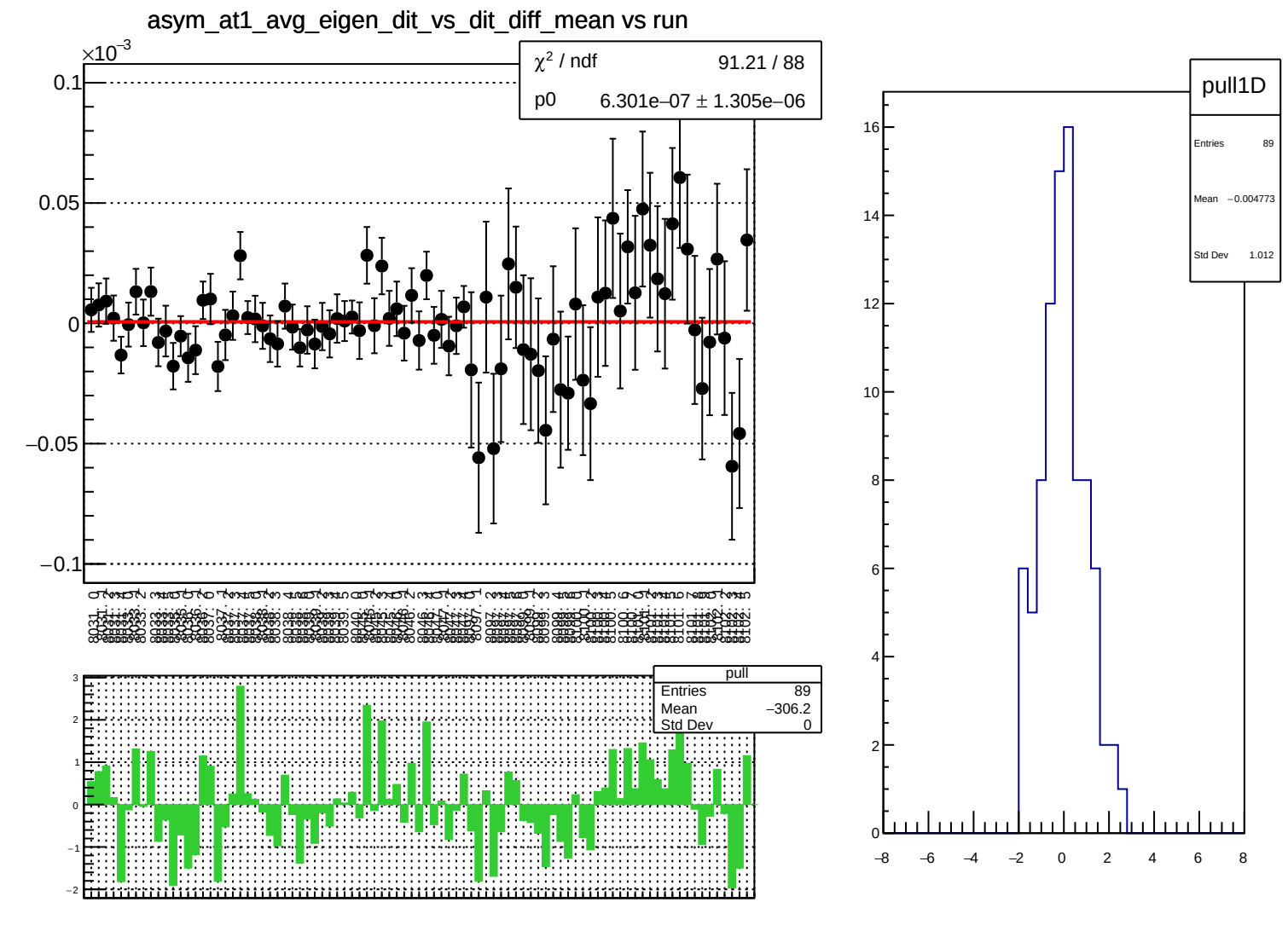

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 100.6 / 88
p0 0.1595 ± 0.1105
pull
Entries 89
Mean −56.36
Std Dev 0

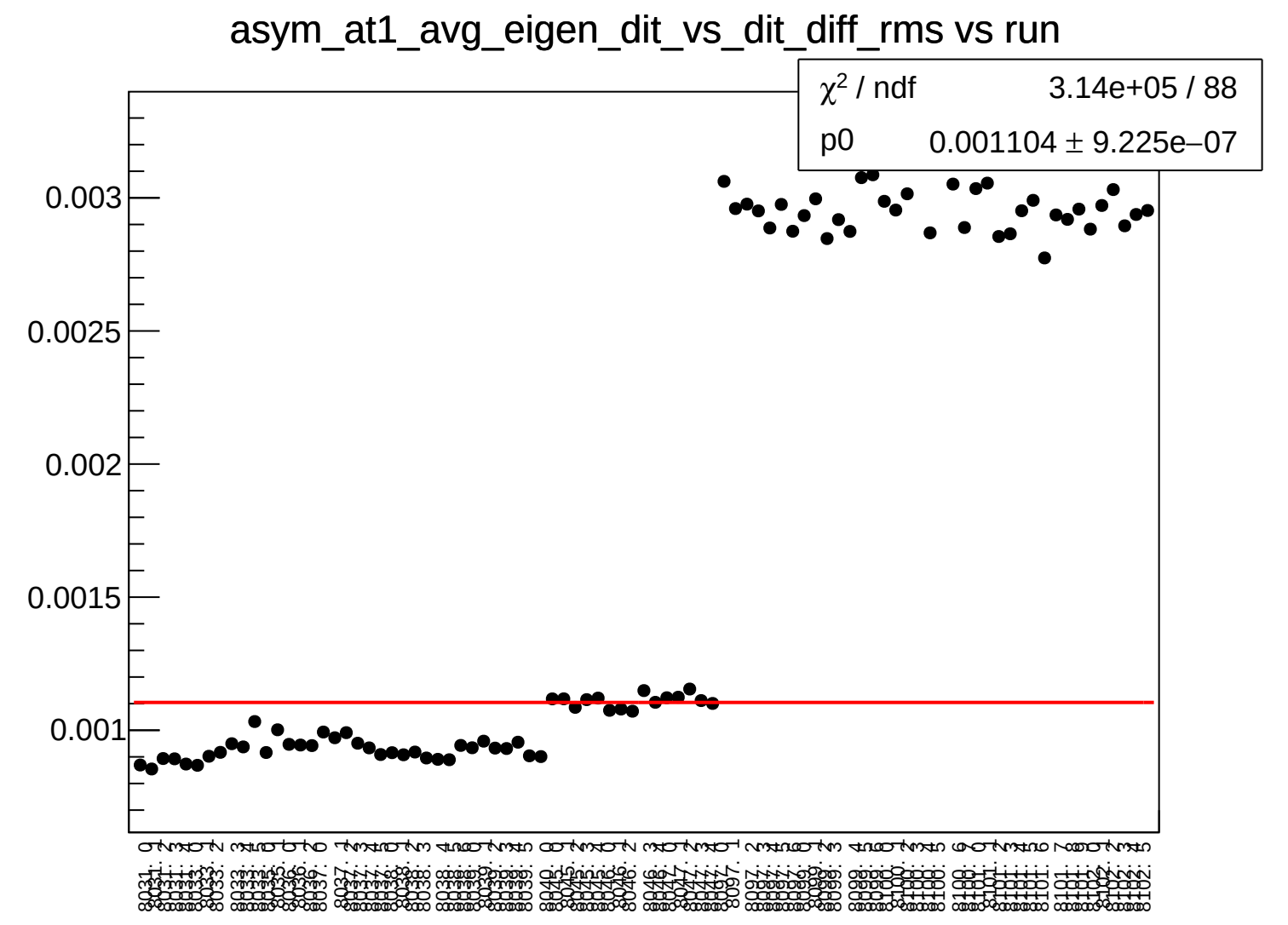

pull1D
Entries 89
Mean −0.02814
Std Dev 1.063

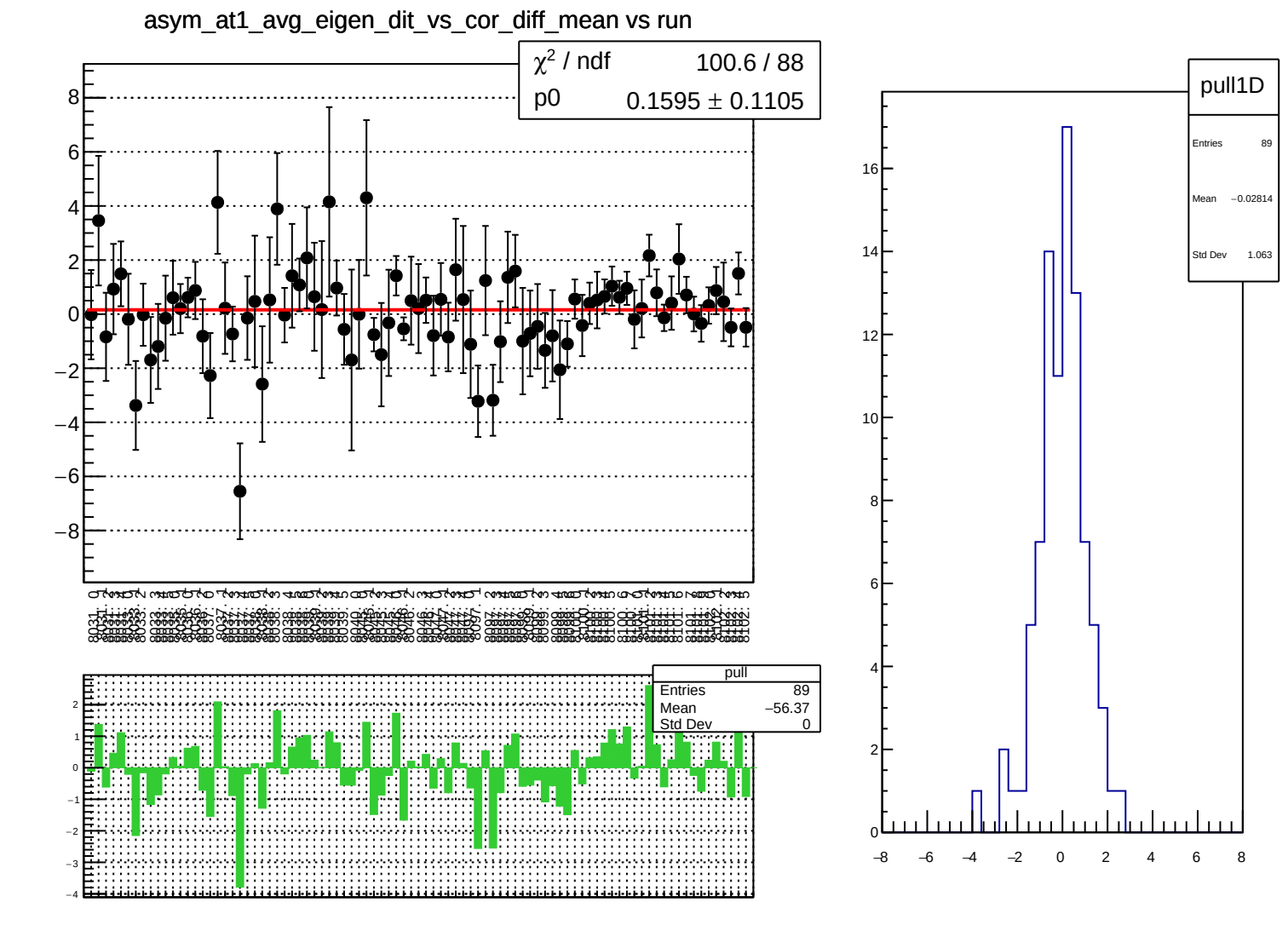

asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.413e+05 / 88
p0 92.65 ± 0.07814
450
400
350
300
250
200
150
100
50

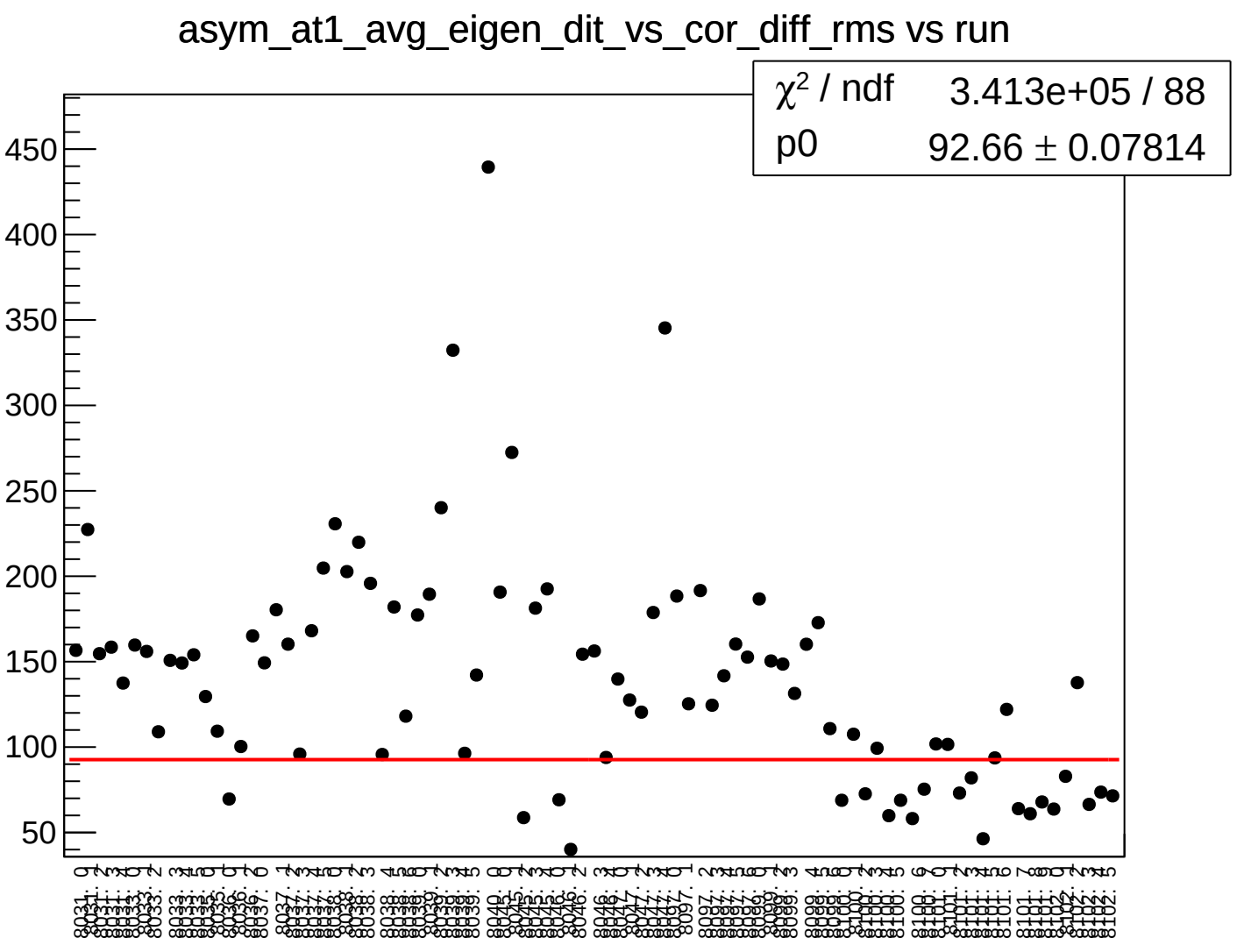

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.6 / 88
p0 0.1595 ± 0.1105
pull
Entries 89
Mean −56.36
Std Dev 0
pull1D
Entries 89
Mean −0.02814
Std Dev 1.063

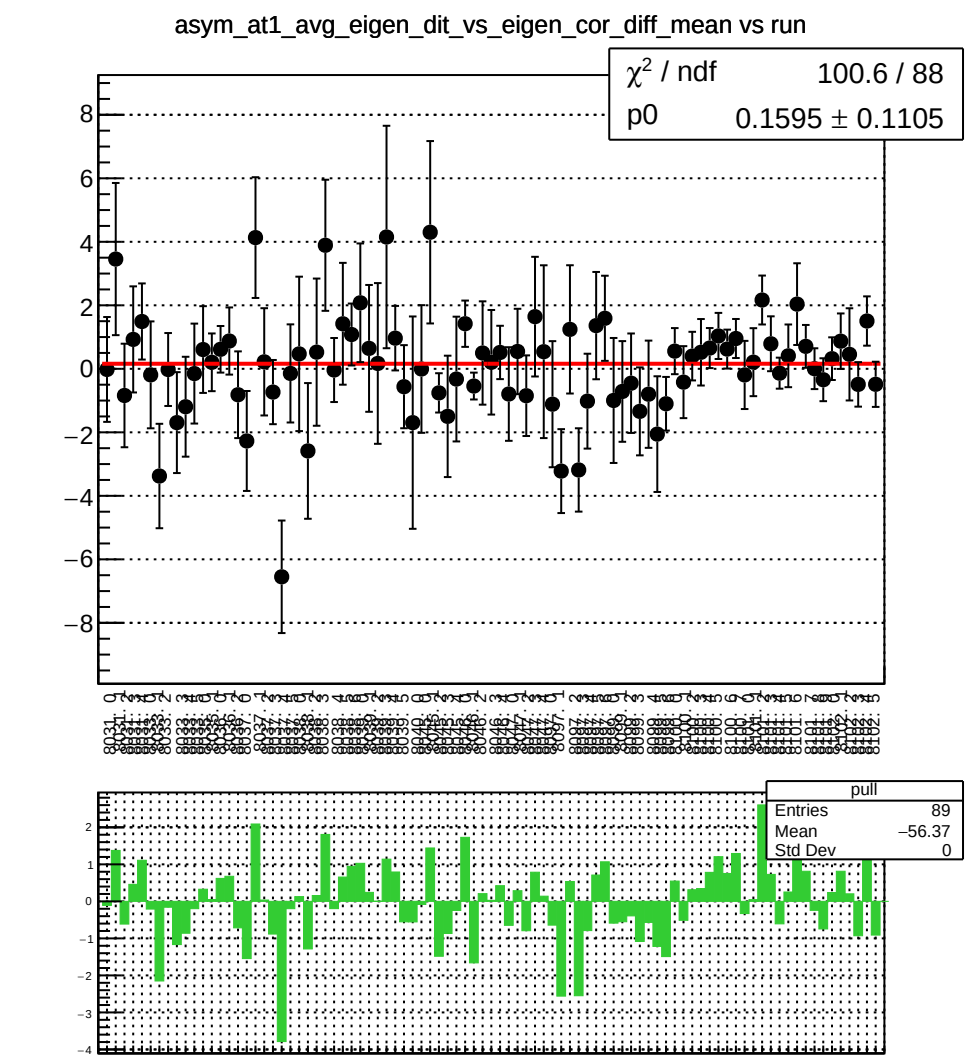

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.413e+05 / 88
p0 92.65 ± 0.07814
450
400
350
300
250
200
150
100
50

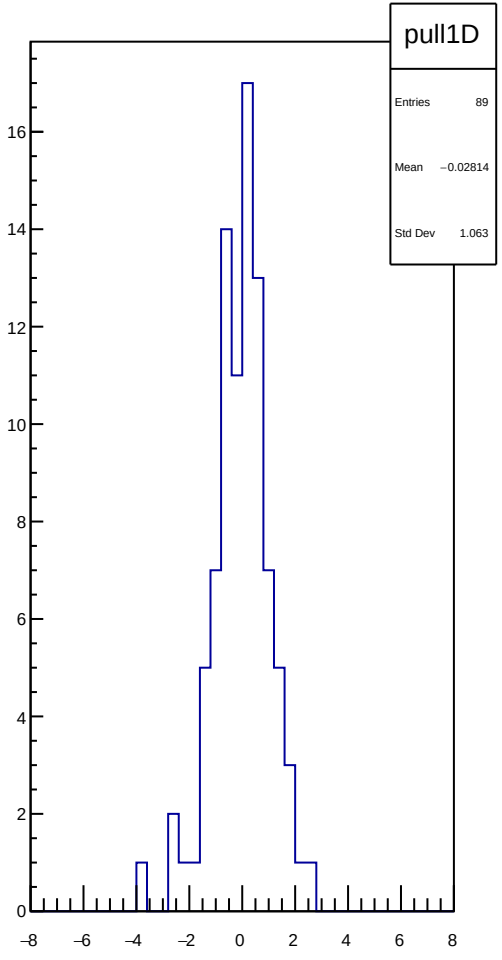

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.21 / 88
p0 6.301e−07 ± 1.305e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 89
Mean −306.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.004773
Std Dev 1.012
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

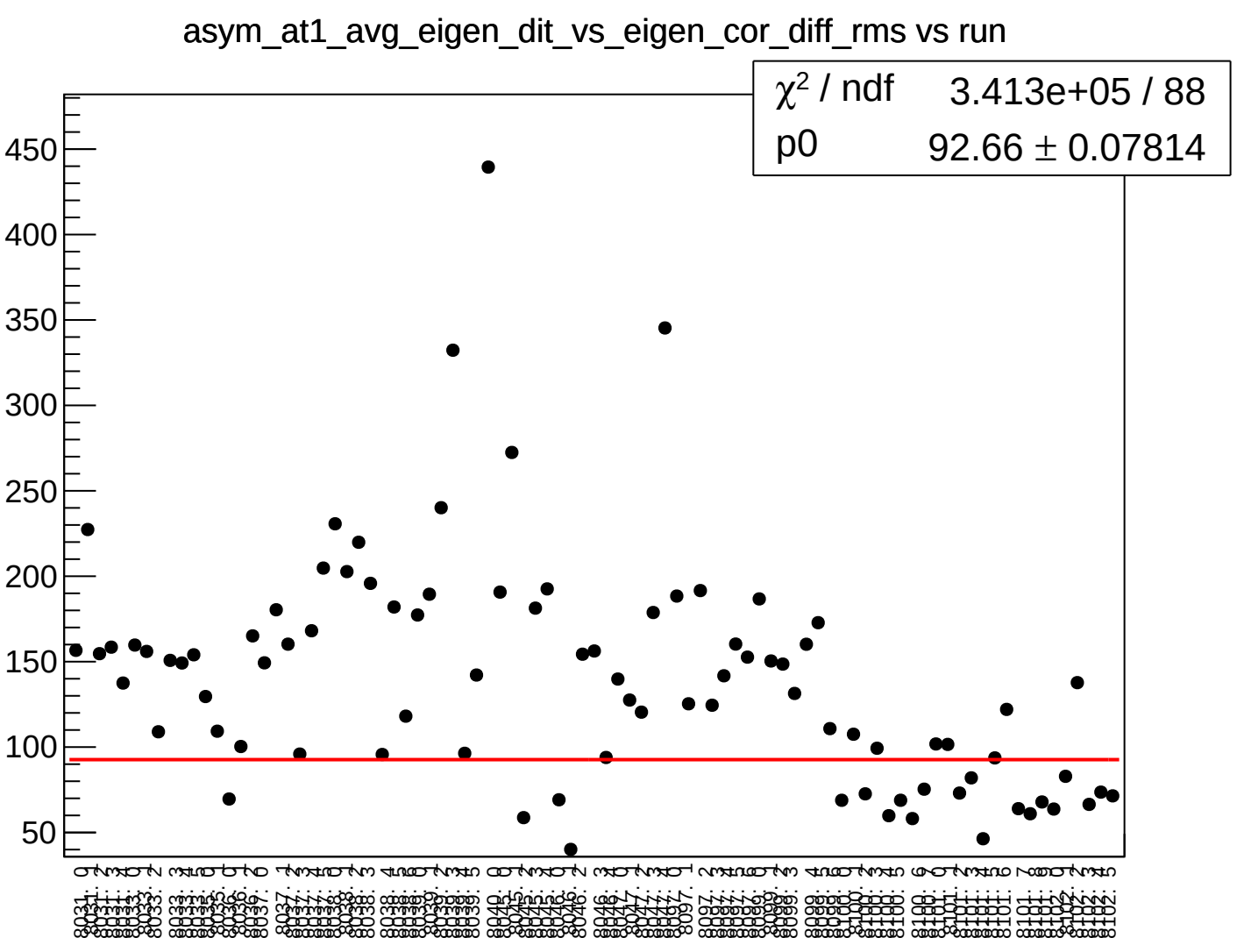

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.14e+05 / 88
p0 0.001104 ± 9.225e−07
0.003
0.0025
0.002
0.0015
0.001

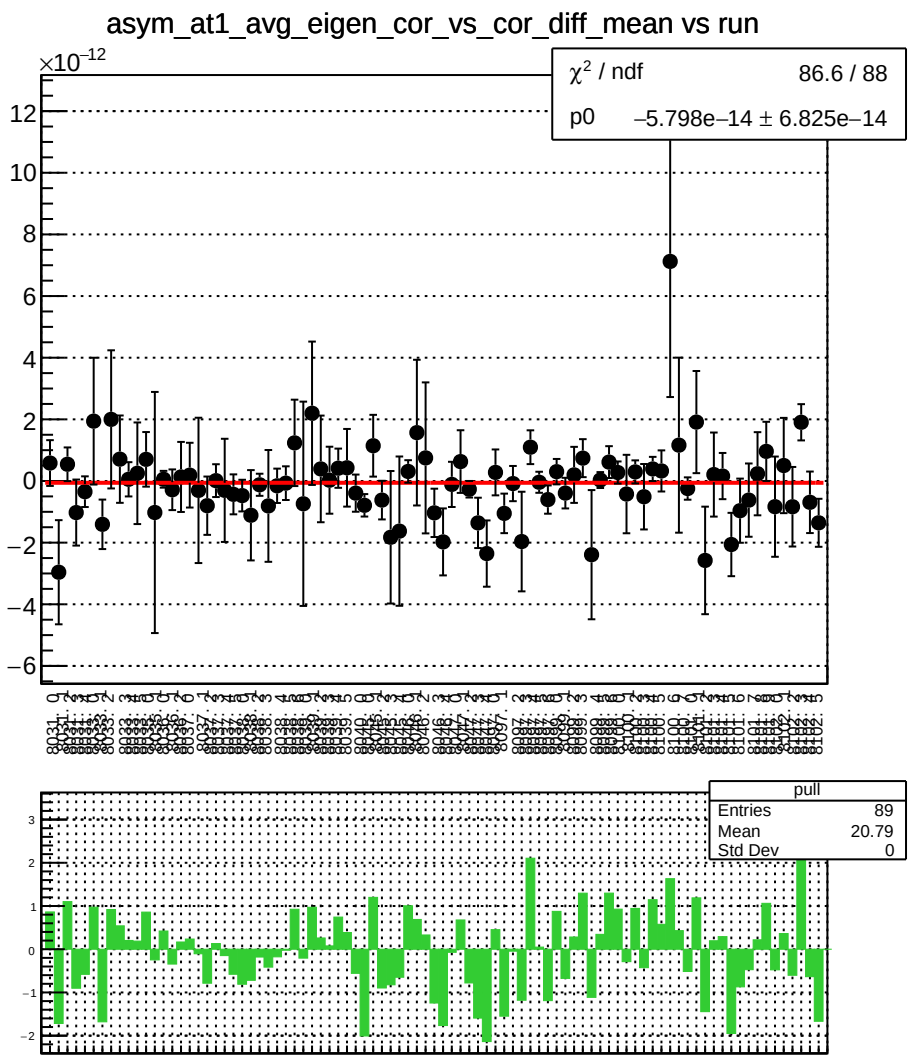

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.6 / 88
p0 0.1595 ± 0.1105
pull
Entries 89
Mean −56.37
Std Dev 0
pull1D
Entries 89
Mean −0.02814
Std Dev 1.063

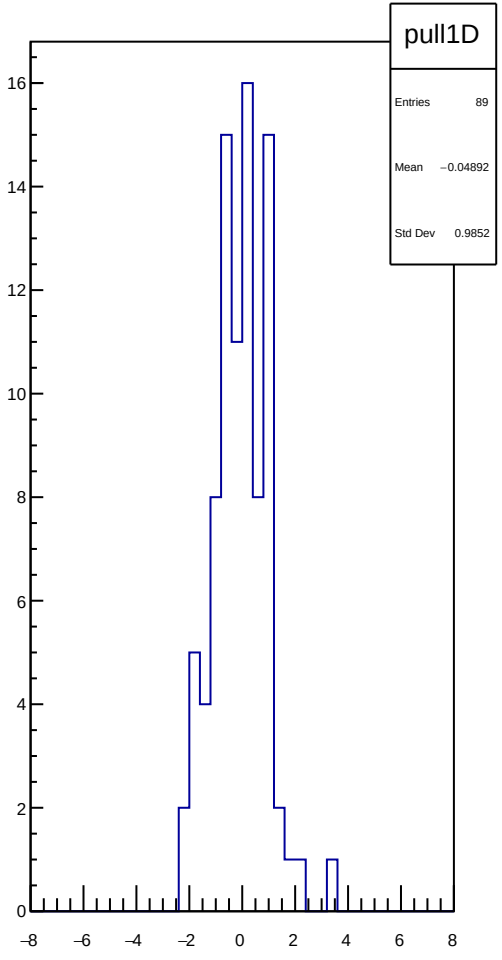

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.413e+05 / 88
p0 92.66 ± 0.07814
450
400
350
300
250
200
150
100
50

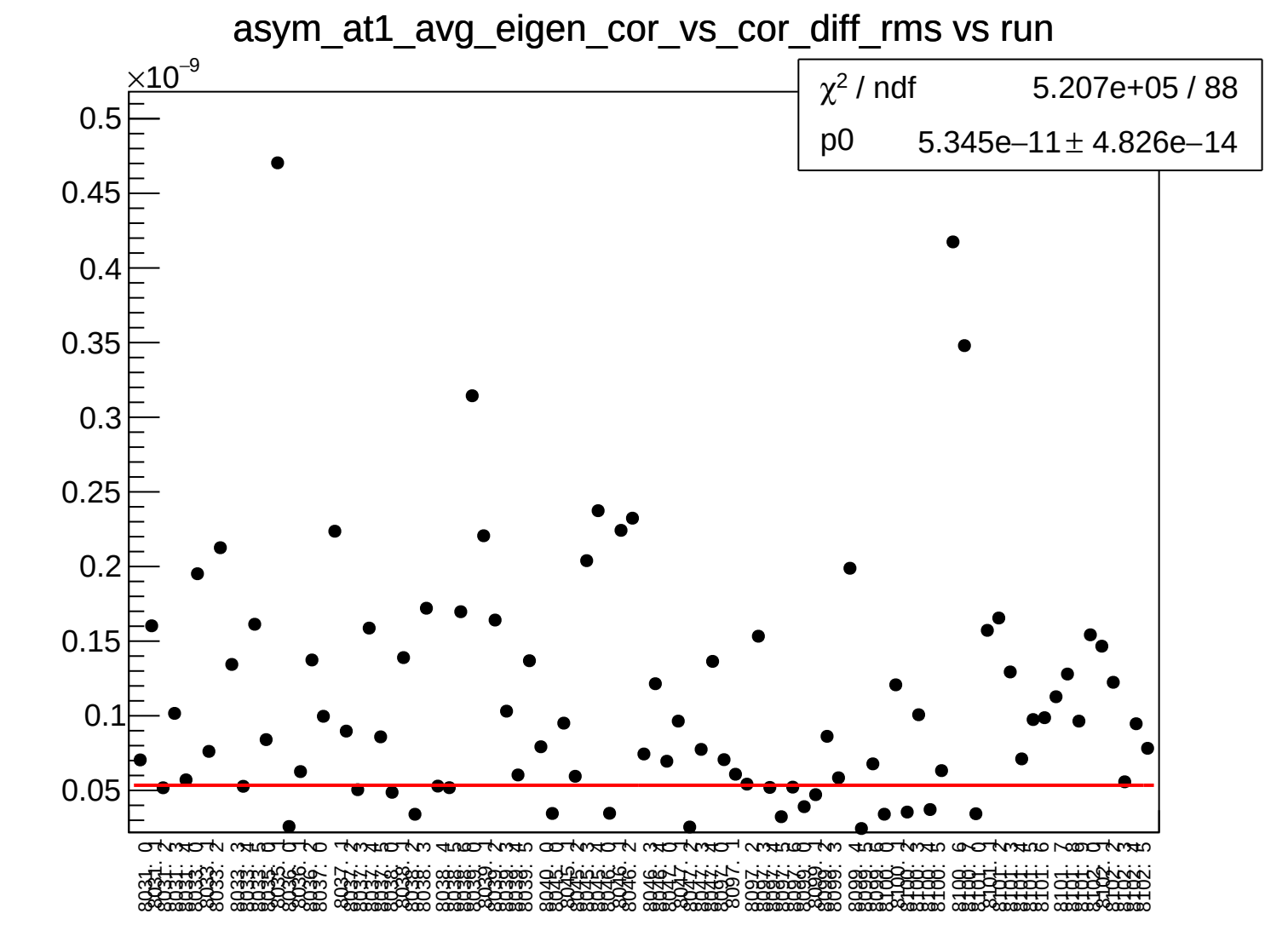

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.6 / 88
p0 0.1595 ± 0.1105
pull
Entries 89
Mean −56.37
Std Dev 0

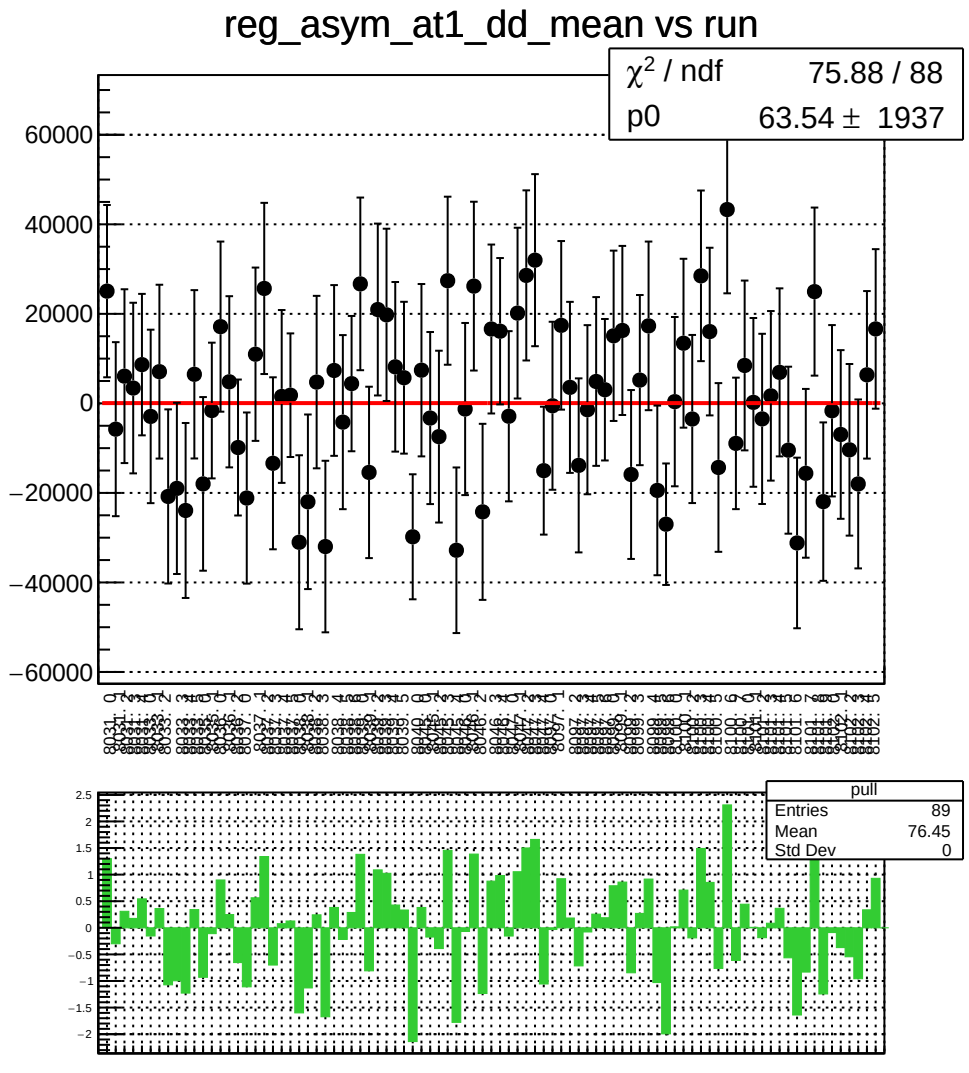

pull1D
Entries 89
Mean −0.02814
Std Dev 1.063

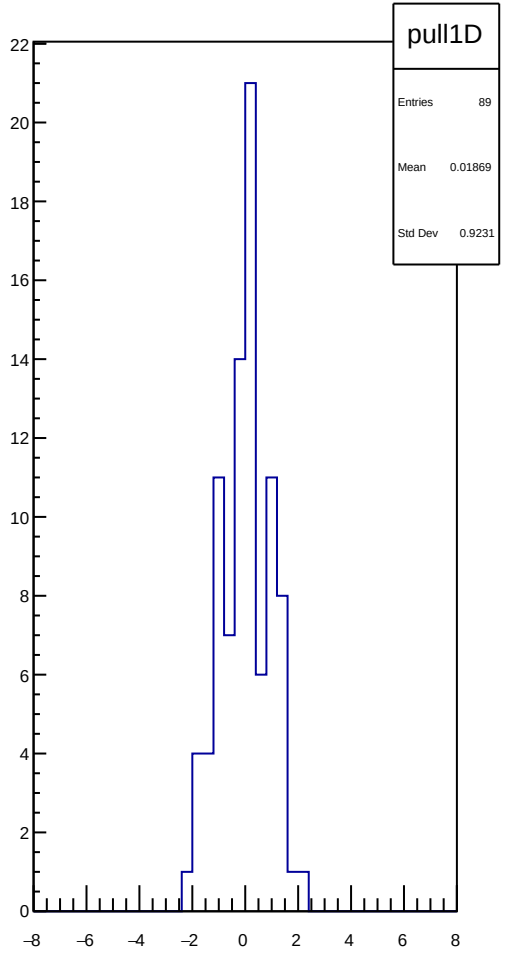

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.413e+05 / 88
p0 92.66 ± 0.07814
450
400
350
300
250
200
150
100
50

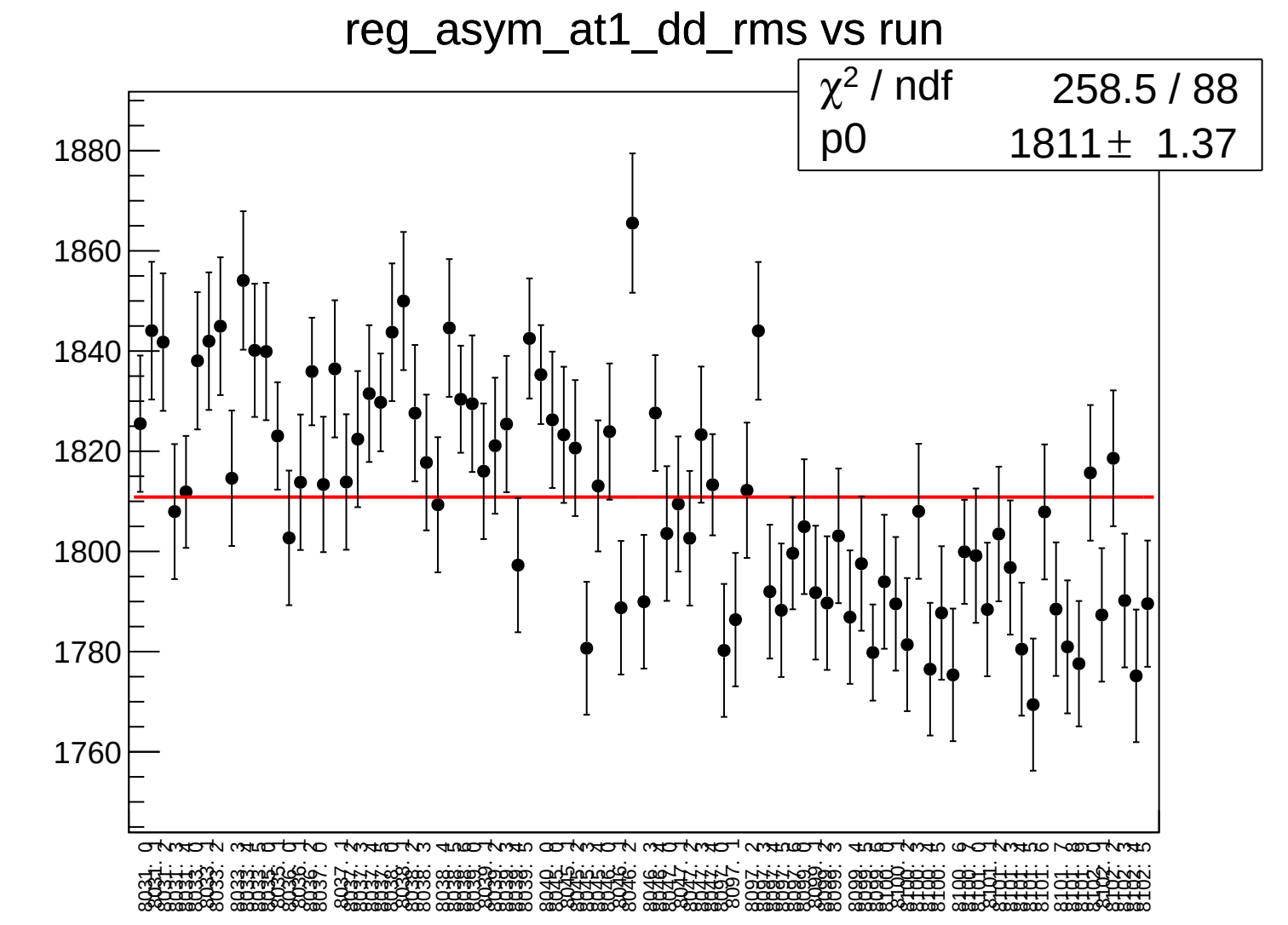

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.6 / 88
p0 −5.798e−14 ± 6.825e−14
pull
Entries 89
Mean 20.79
Std Dev 0

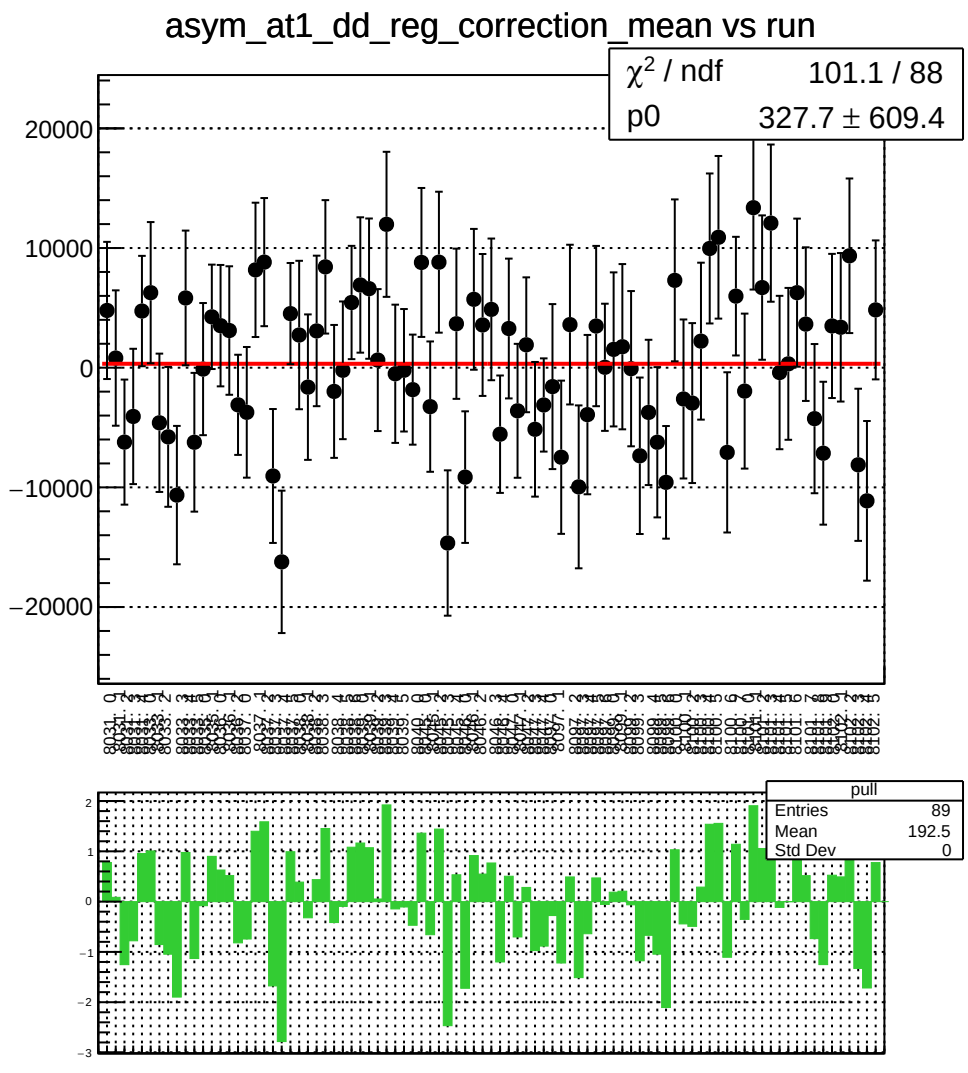

pull1D
Entries 89
Mean −0.04892
Std Dev 0.9852

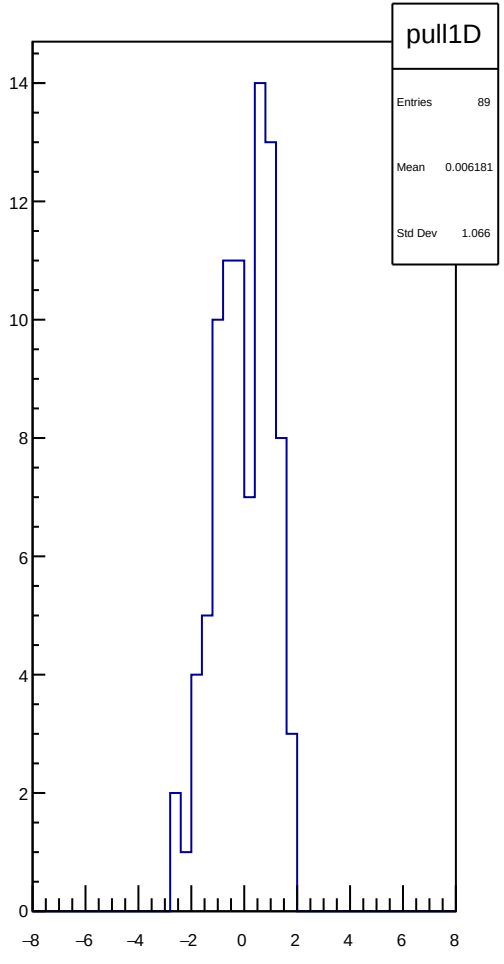

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.207e+05 / 88
p0 5.345e−11 ± 4.826e−14
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

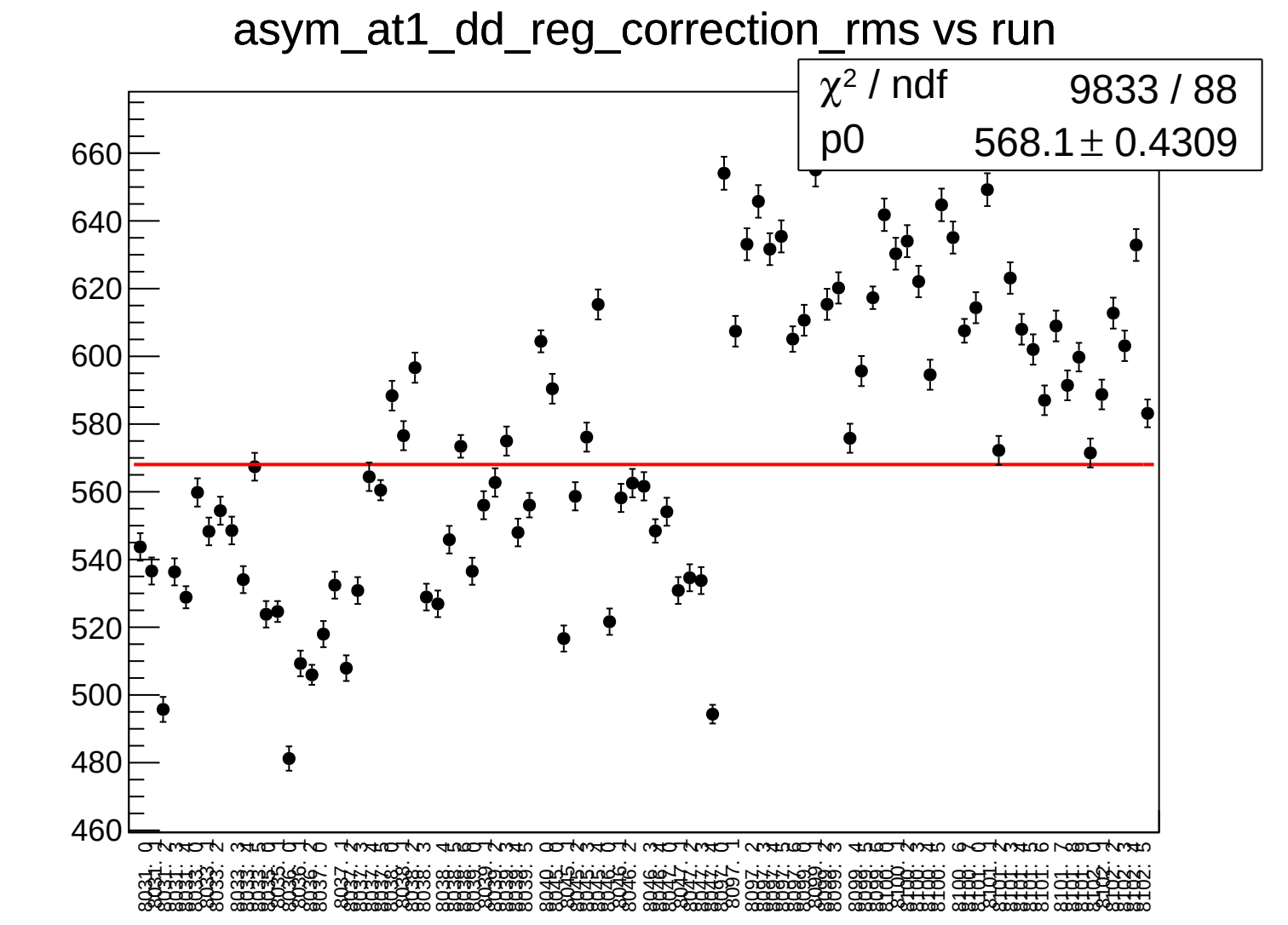

reg_asym_at1_dd_mean vs run
χ² / ndf 75.88 / 88
p0 63.54 ± 1937
pull
Entries 89
Mean 76.45
Std Dev 0

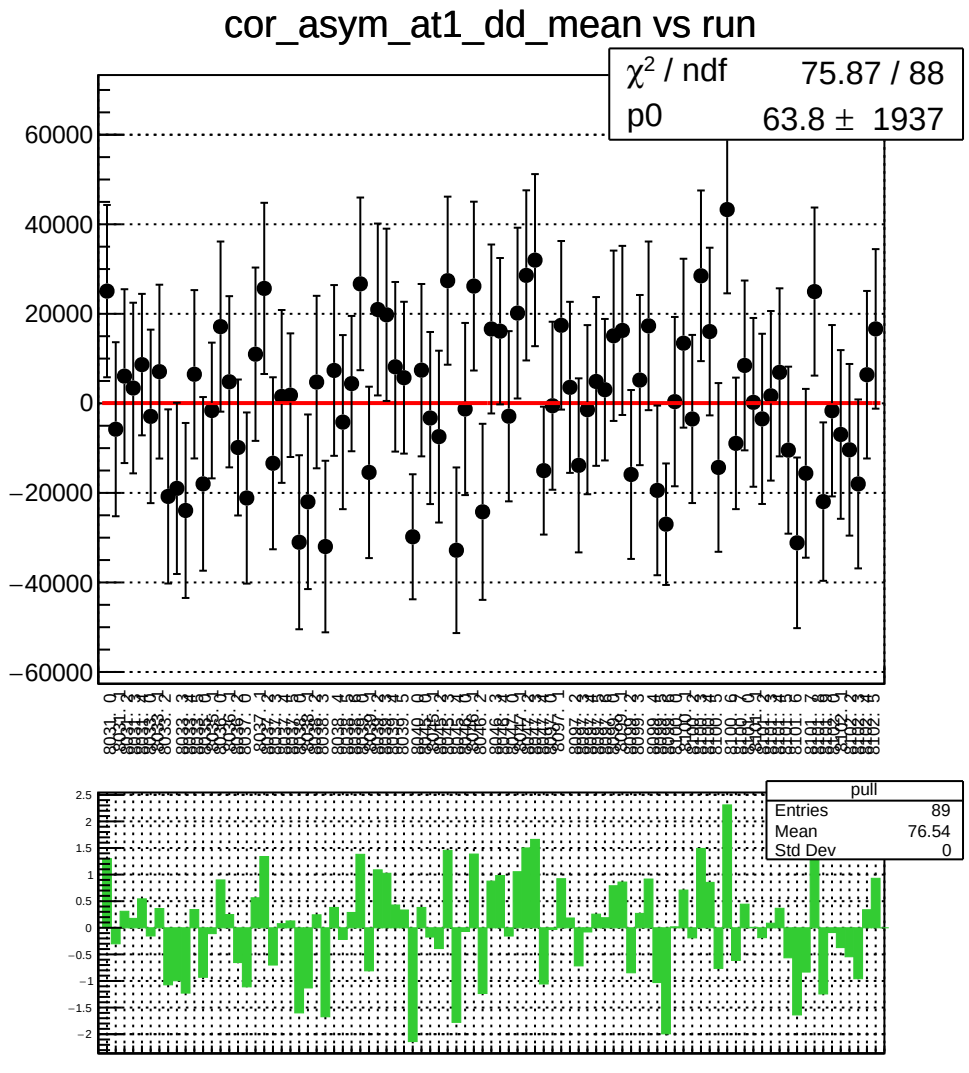

pull1D
Entries 89
Mean 0.01869
Std Dev 0.9231

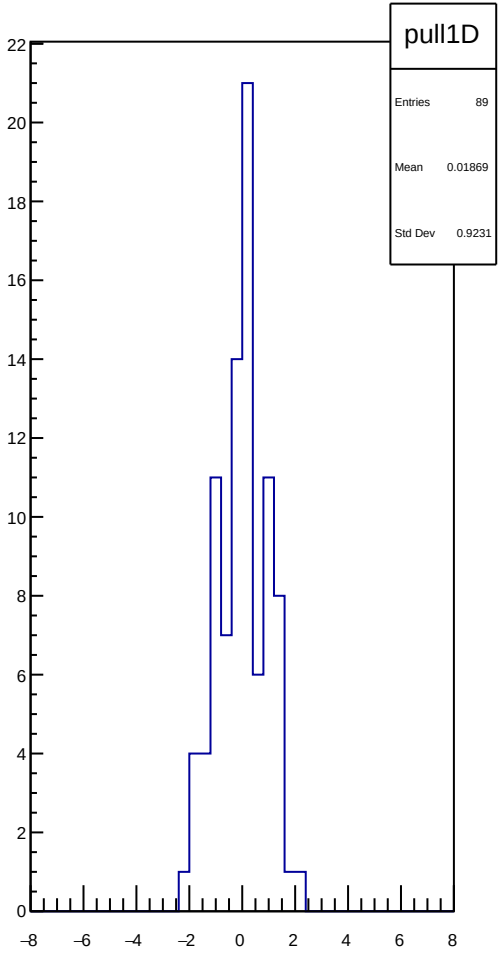

reg_asym_at1_dd_rms vs run
χ² / ndf 258.5 / 88
p0 1811 ± 1.37
1880
1860
1840
1820
1800
1780
1760

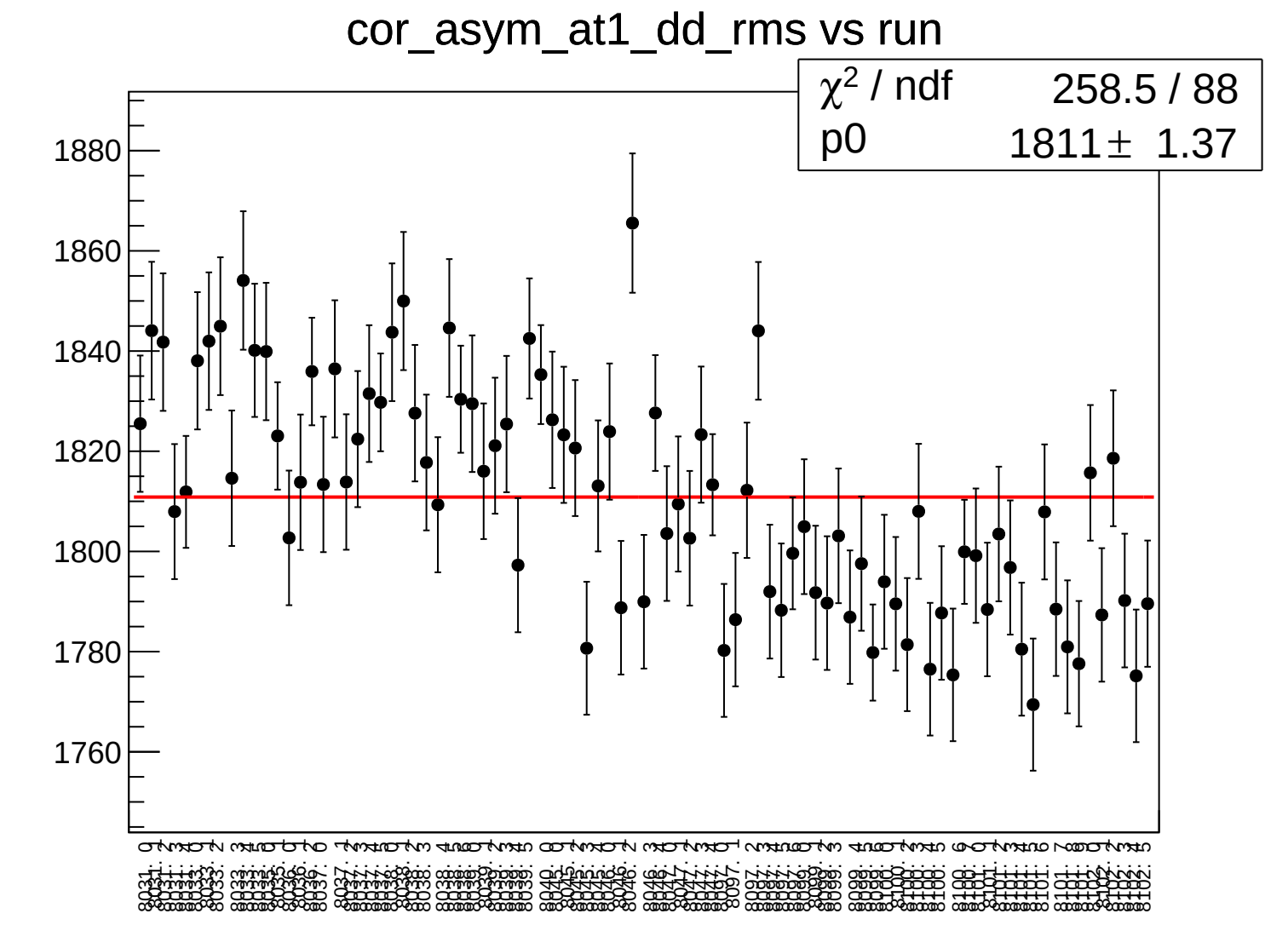

asym_at1_dd_reg_correction_mean vs run
χ² / ndf 101.1 / 88
p0 327.7 ± 609.4
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 192.5
Std Dev 0
2
1
0
−1
−2
−3

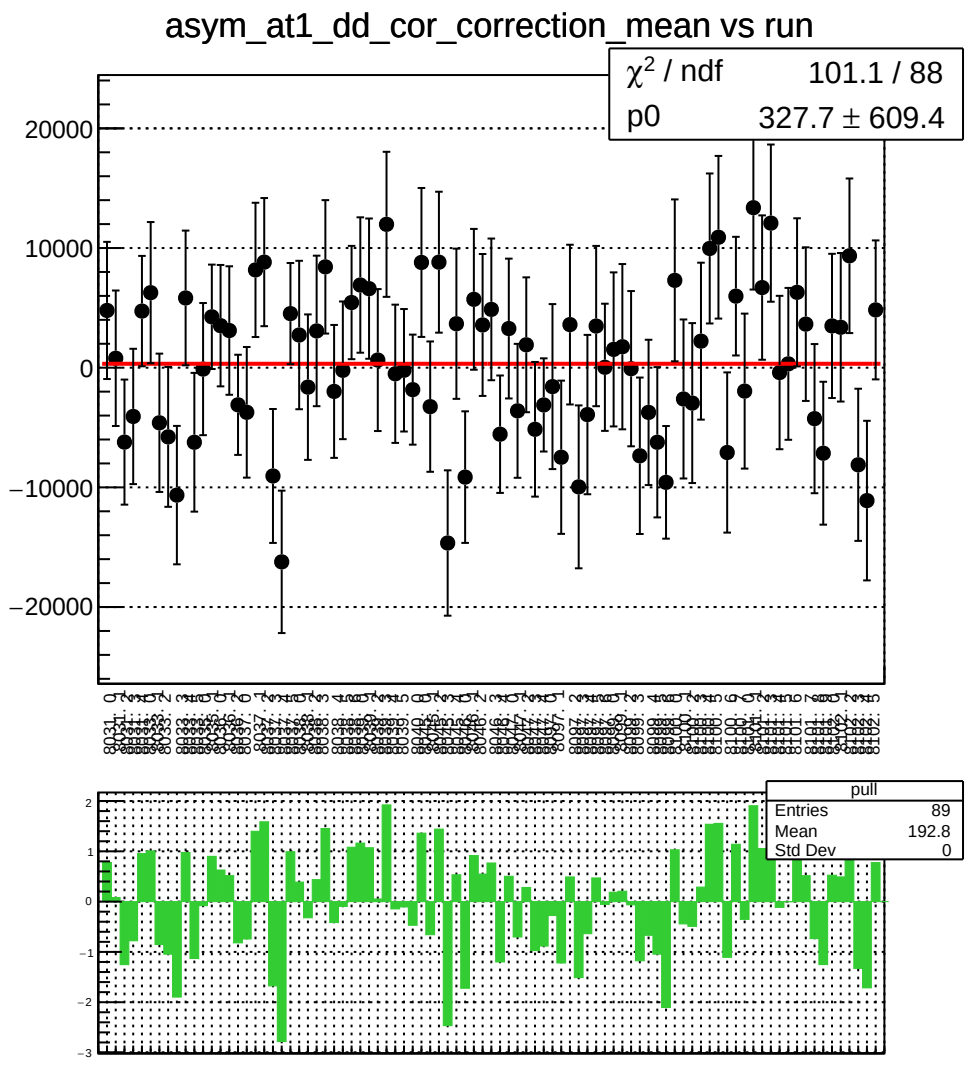

pull1D
Entries 89
Mean 0.006181
Std Dev 1.066
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

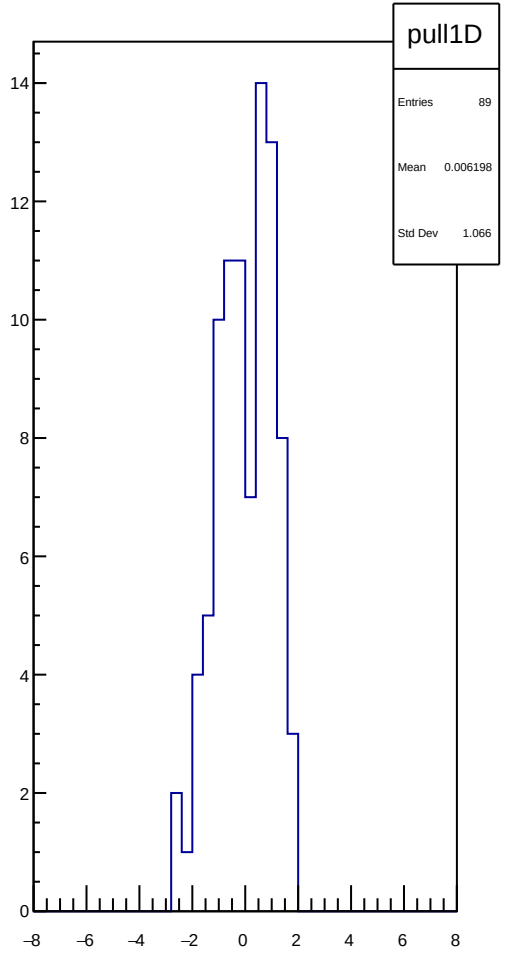

asym_at1_dd_reg_correction_rms vs run
χ² / ndf 9833 / 88
p0 568.1 ± 0.4309
660
640
620
600
580
560
540
520
500
480
460

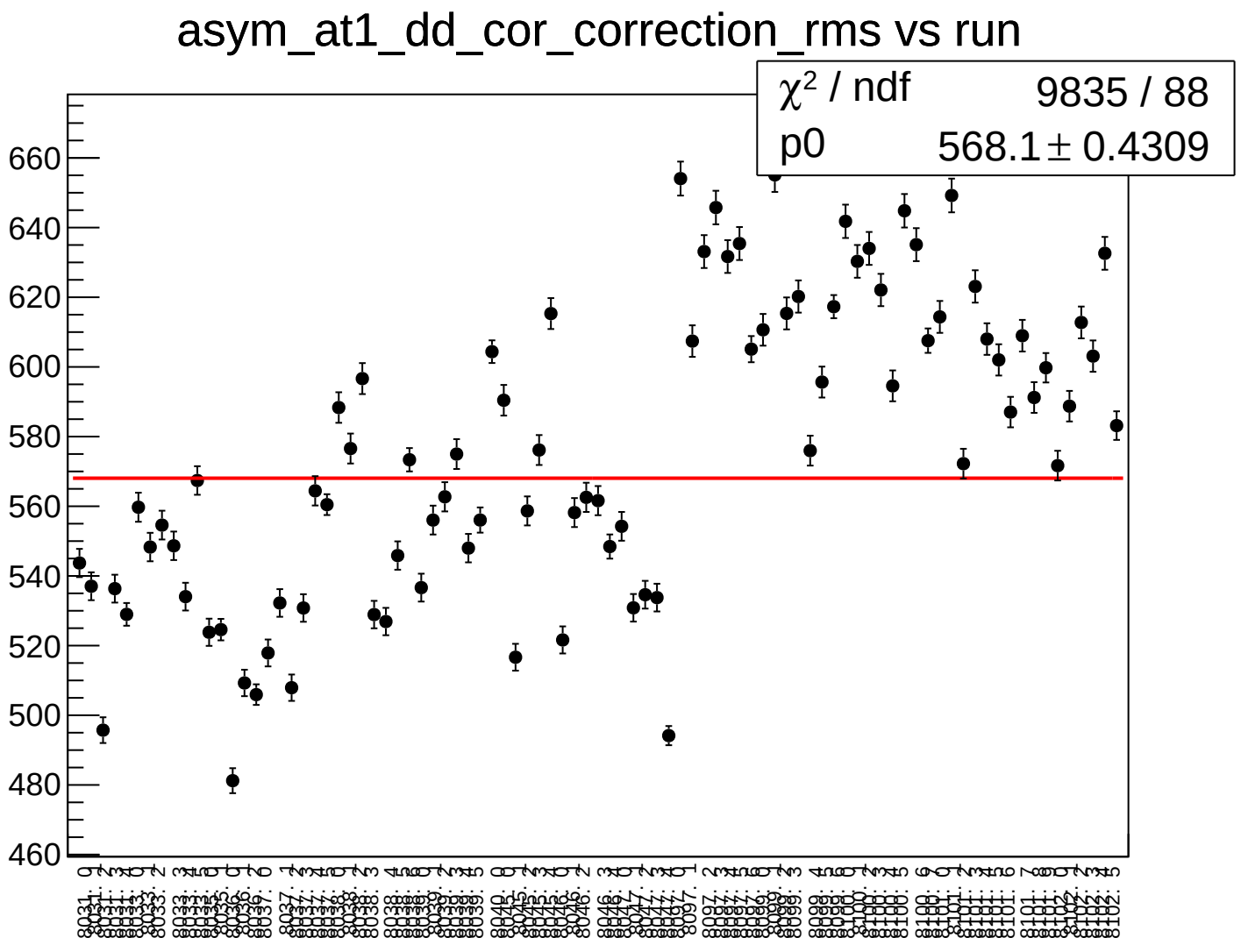

cor_asym_at1_dd_mean vs run
χ² / ndf 75.87 / 88
p0 63.8 ± 1937
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 76.54
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

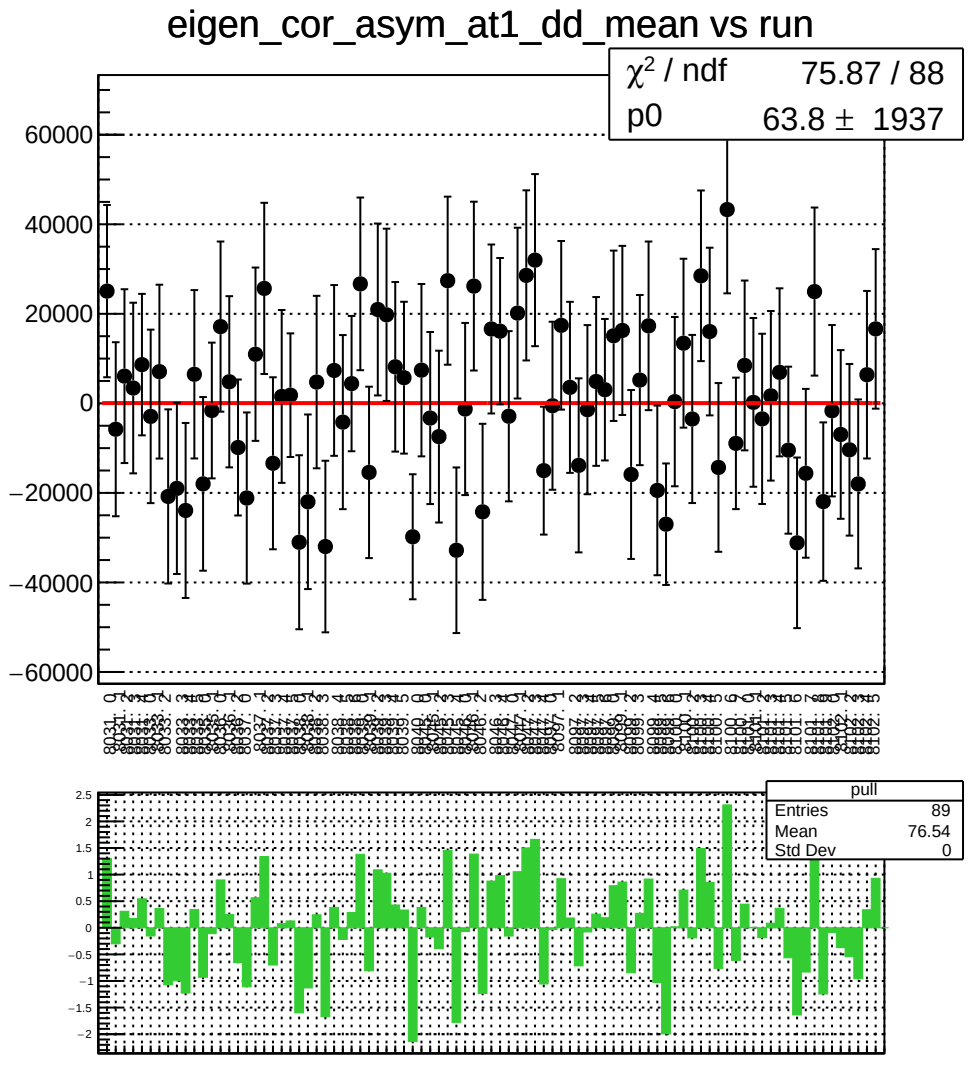

pull1D
Entries 89
Mean 0.01869
Std Dev 0.9231
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

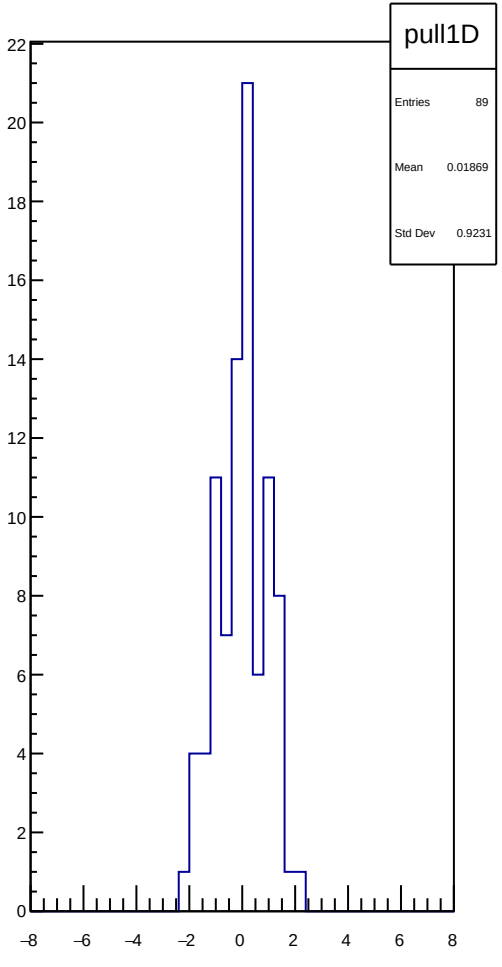

cor_asym_at1_dd_rms vs run
χ² / ndf 258.5 / 88
p0 1811 ± 1.37
1880
1860
1840
1820
1800
1780
1760

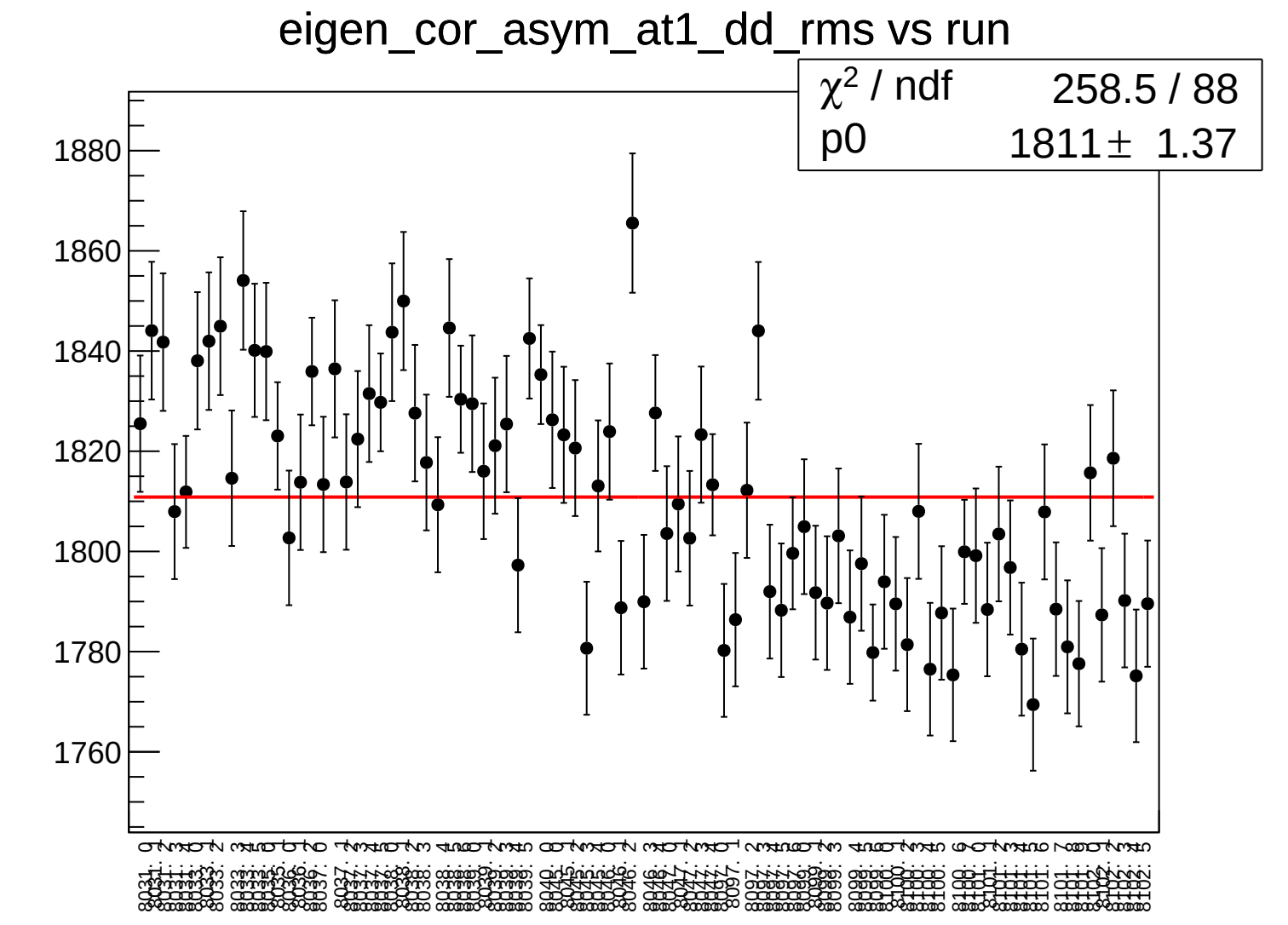

asym_at1_dd_cor_correction_mean vs run
χ² / ndf 101.1 / 88
p0 327.7 ± 609.4
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 192.8
Std Dev 0
2
1
0
−1
−2
−3

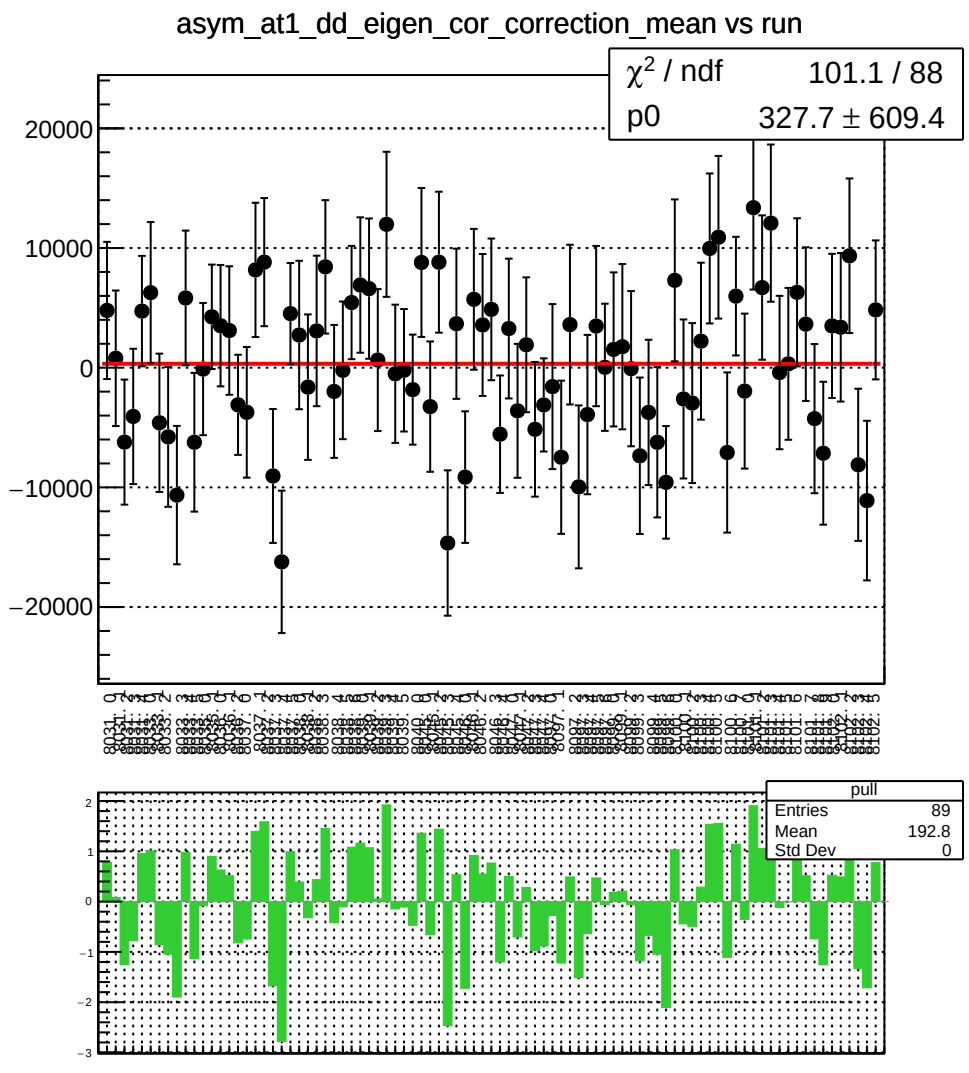

pull1D
Entries 89
Mean 0.006198
Std Dev 1.066
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

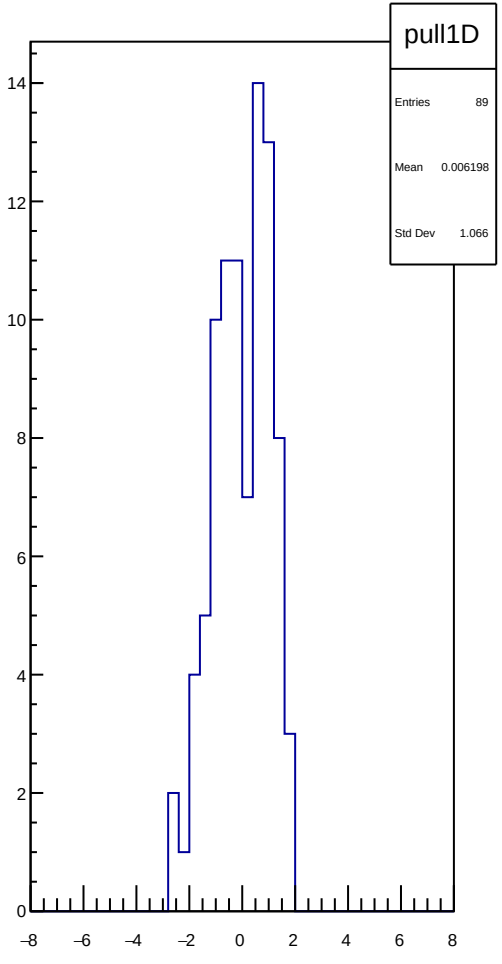

asym_at1_dd_cor_correction_rms vs run
χ² / ndf 9835 / 88
p0 568.1 ± 0.4309
660
640
620
600
580
560
540
520
500
480
460

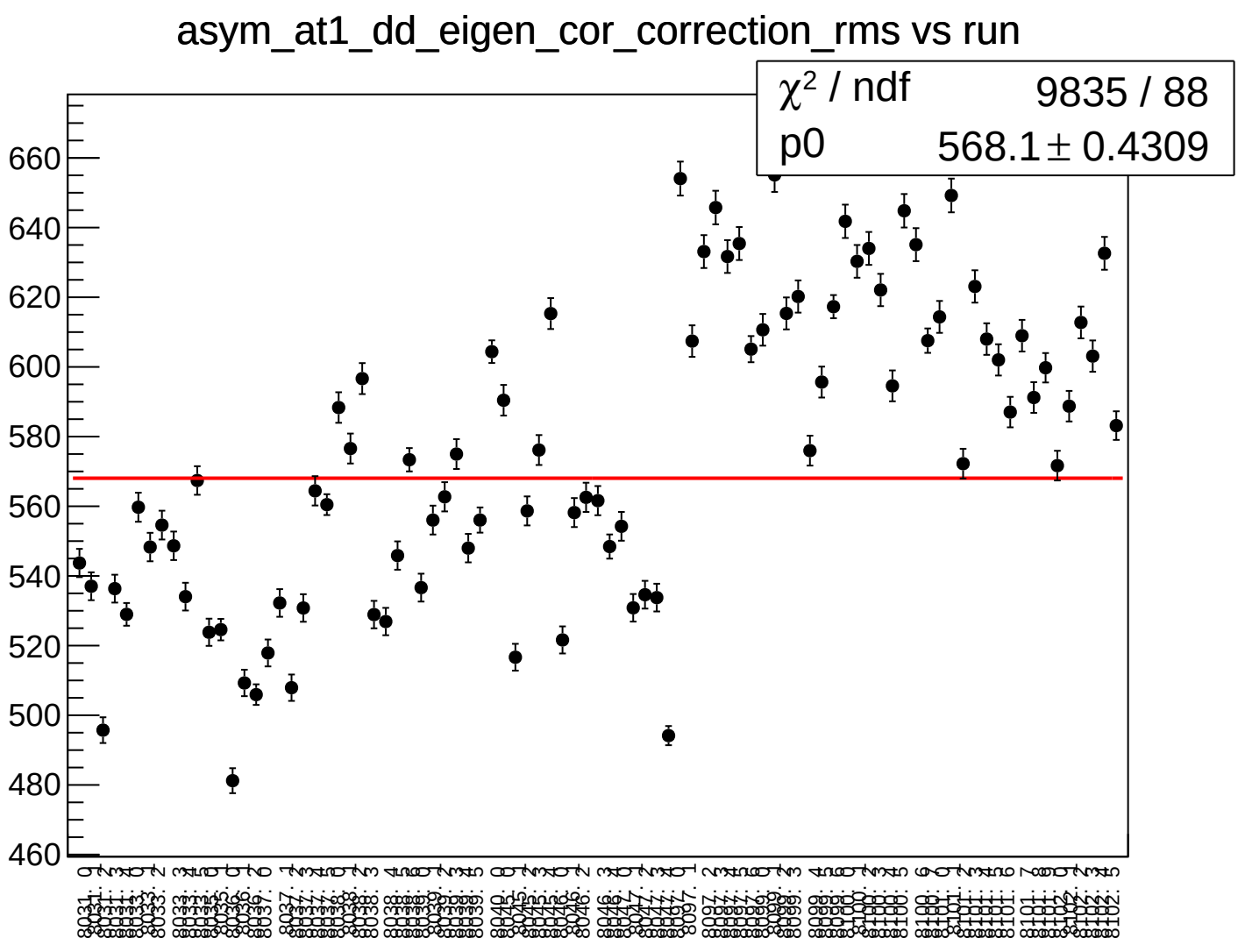

eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 75.87 / 88
p0 63.8 ± 1937
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 76.54
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

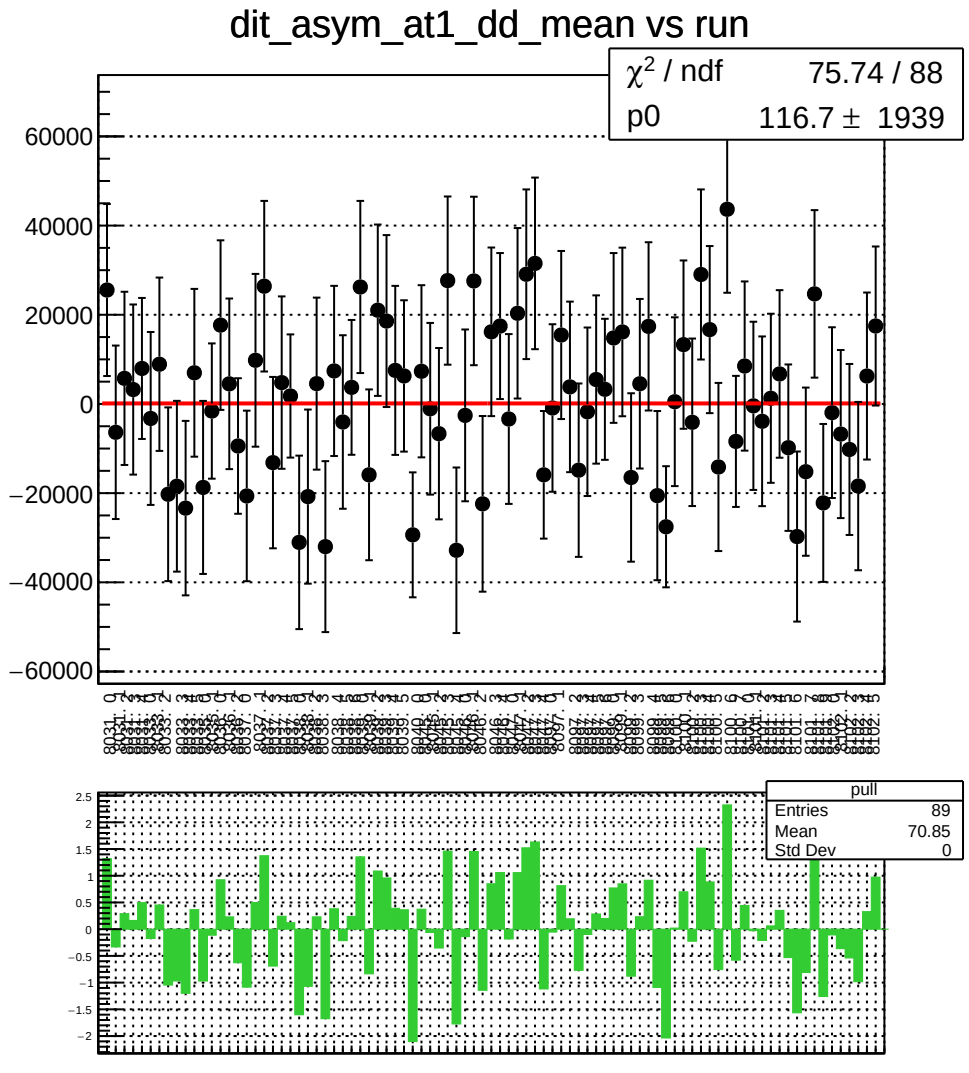

pull1D
Entries 89
Mean 0.01869
Std Dev 0.9231
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

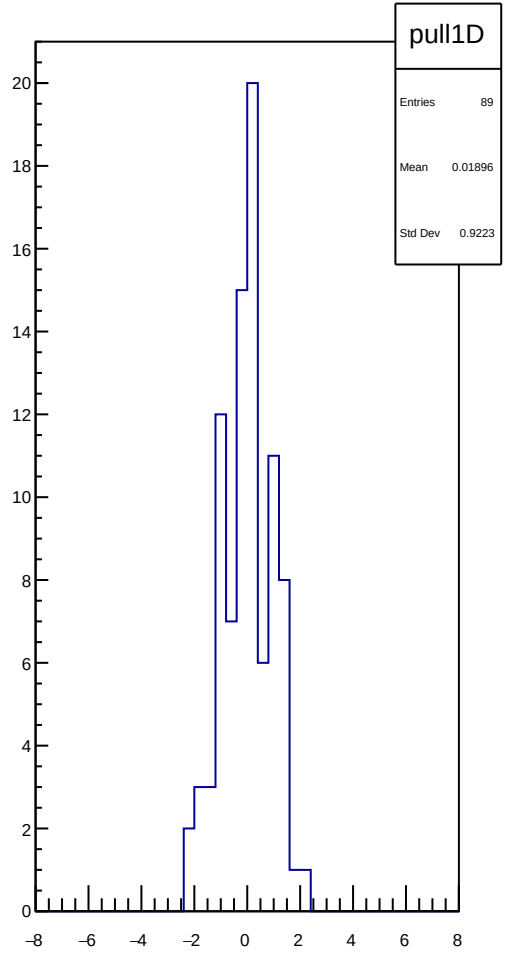

eigen_cor_asym_at1_dd_rms vs run
χ² / ndf 258.5 / 88
p0 1811 ± 1.37
1880
1860
1840
1820
1800
1780
1760

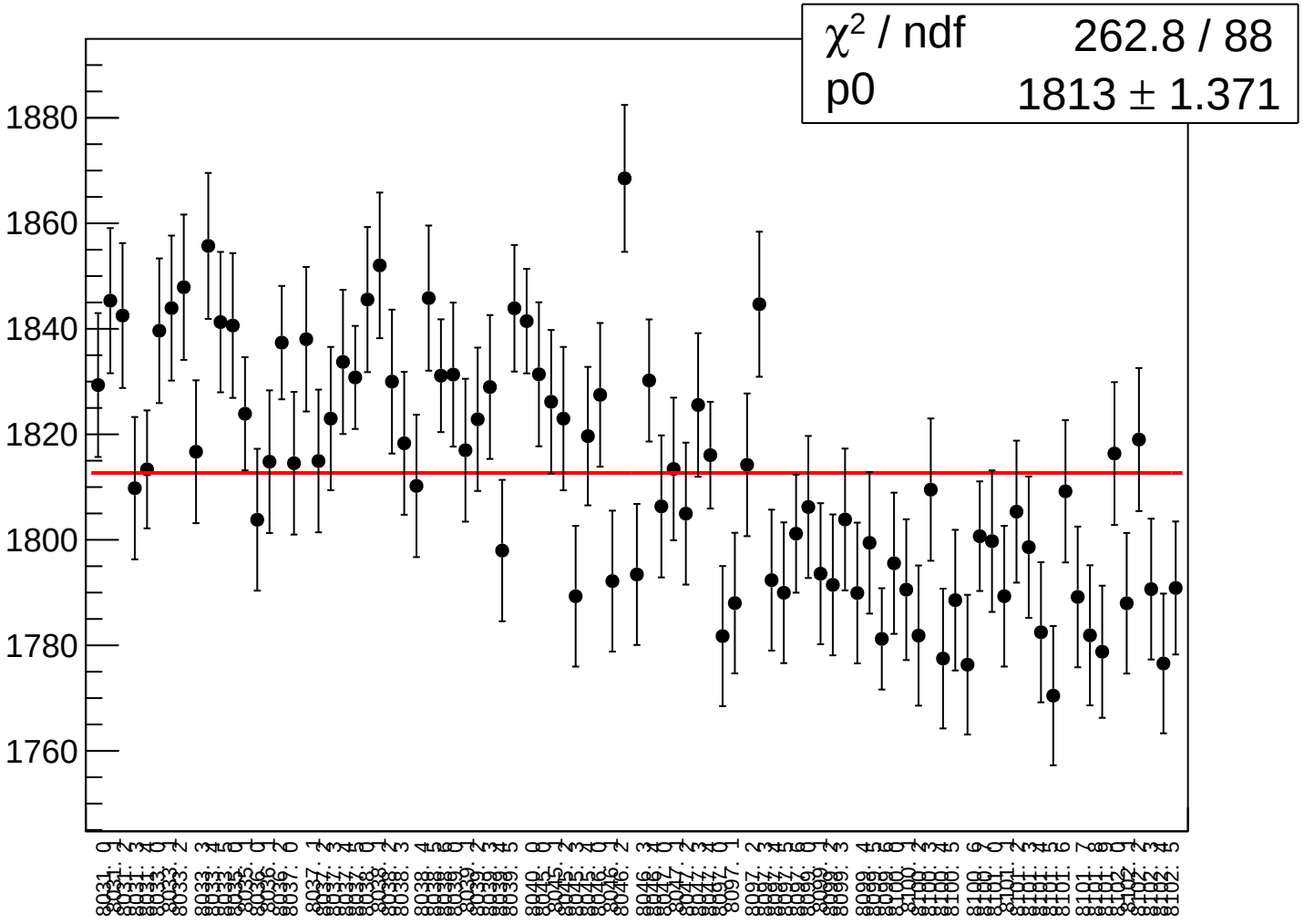

asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 101.1 / 88
p0 327.7 ± 609.4
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 192.8
Std Dev 0
2
1
0
−1
−2
−3

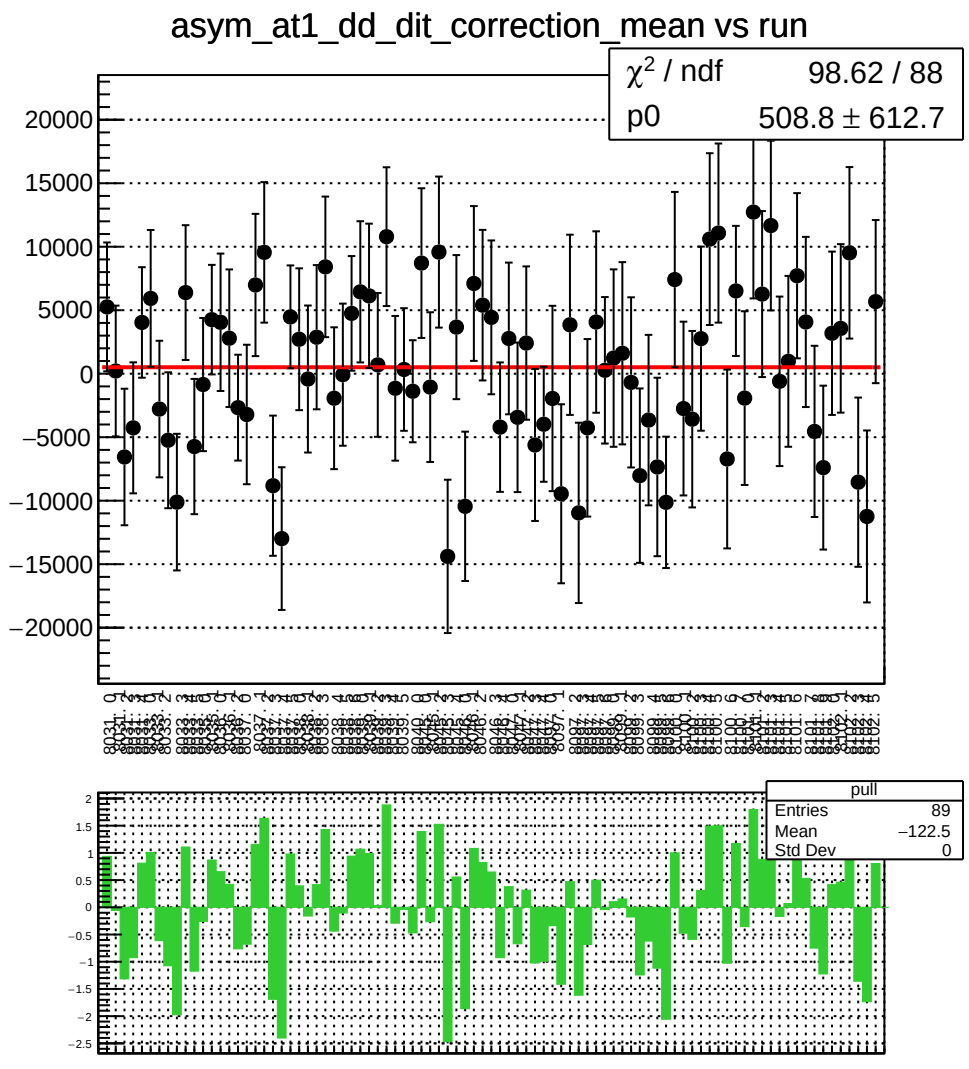

pull1D
Entries 89
Mean 0.006198
Std Dev 1.066
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

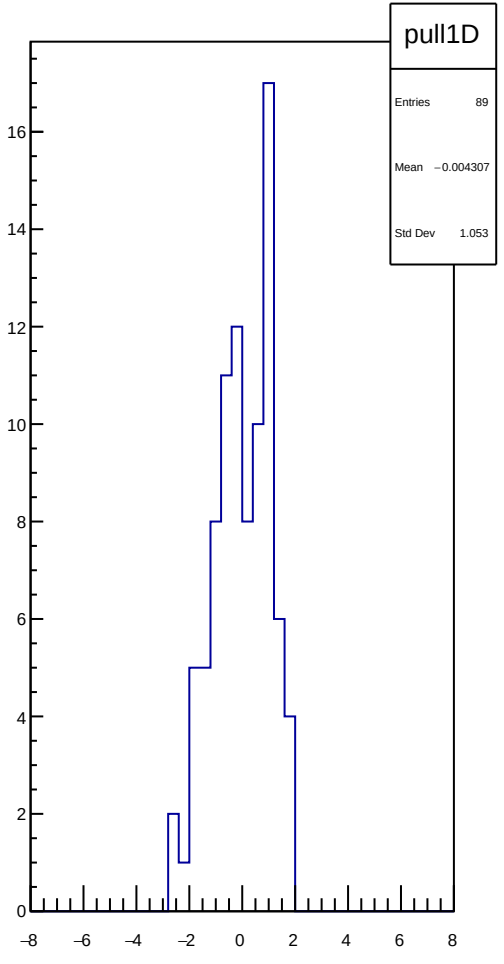

asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 9835 / 88
p0 568.1 ± 0.4309
660
640
620
600
580
560
540
520
500
480
460

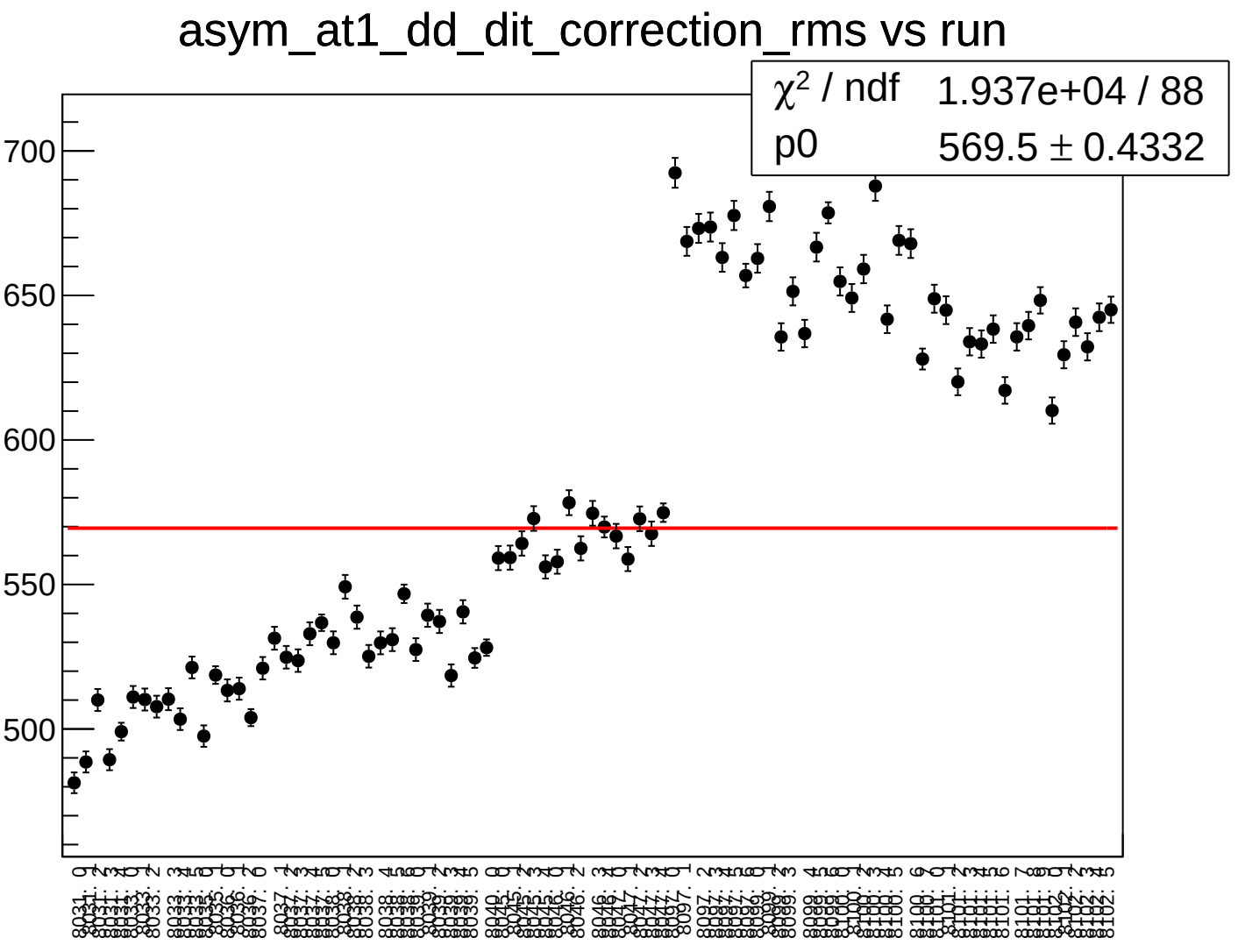

dit_asym_at1_dd_mean vs run
χ² / ndf 75.74 / 88
p0 116.7 ± 1939
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 70.85
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

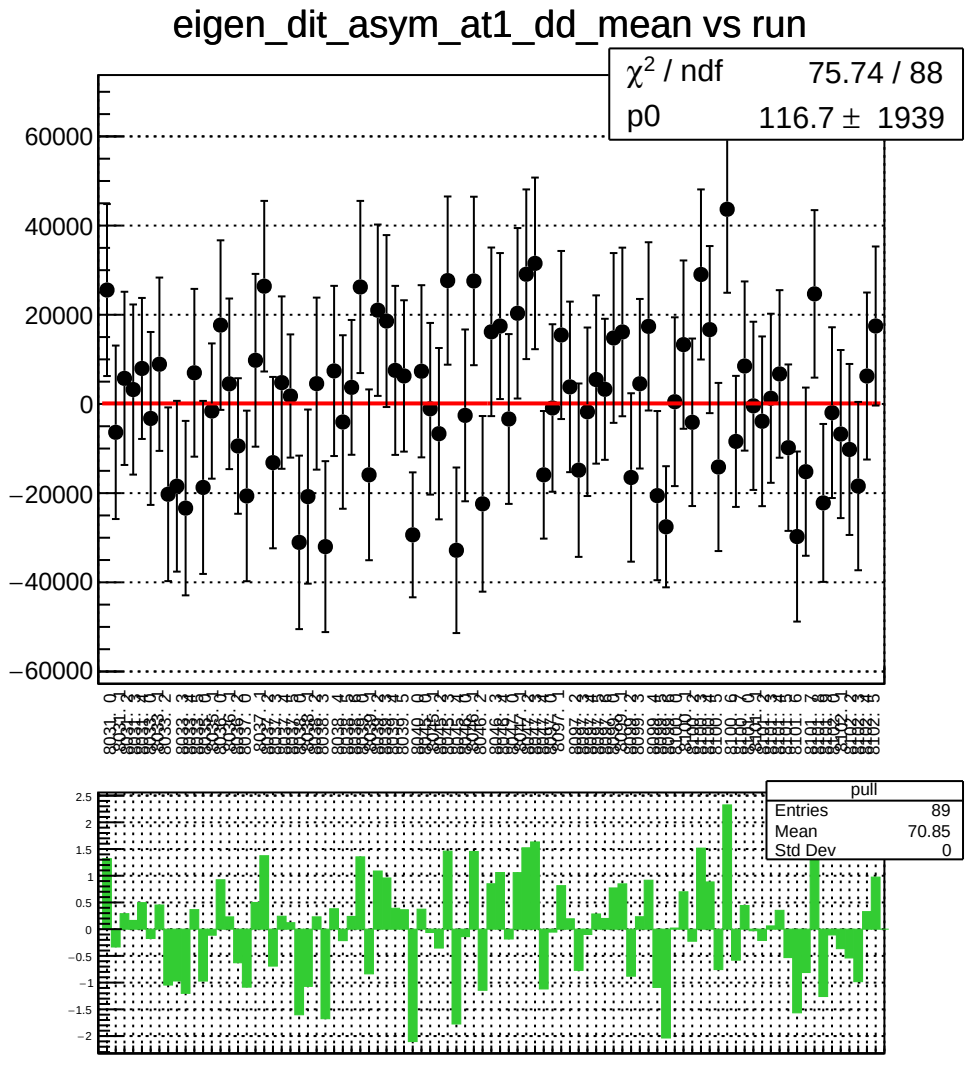

pull1D
Entries 89
Mean 0.01896
Std Dev 0.9223
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

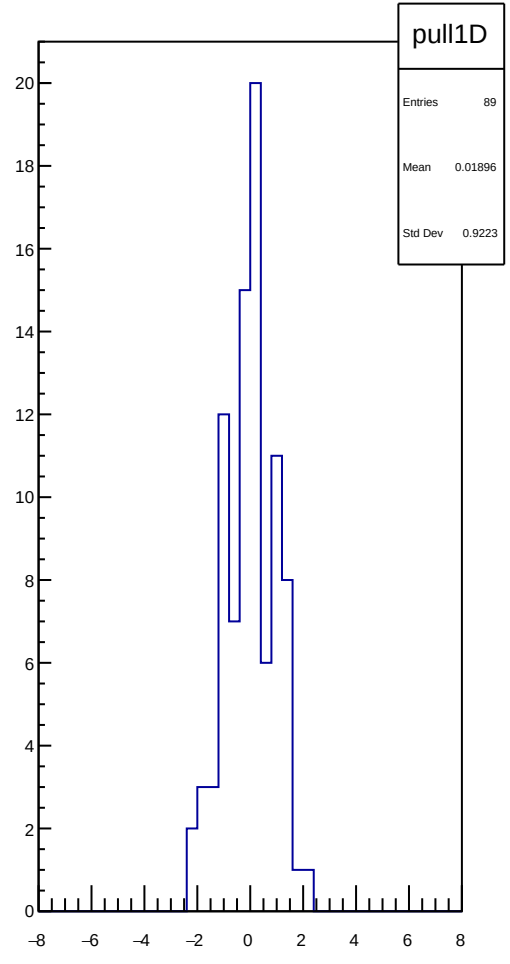

dit_asym_at1_dd_rms vs run
χ² / ndf 262.8 / 88
p0 1813 ± 1.371
1880
1860
1840
1820
1800
1780
1760

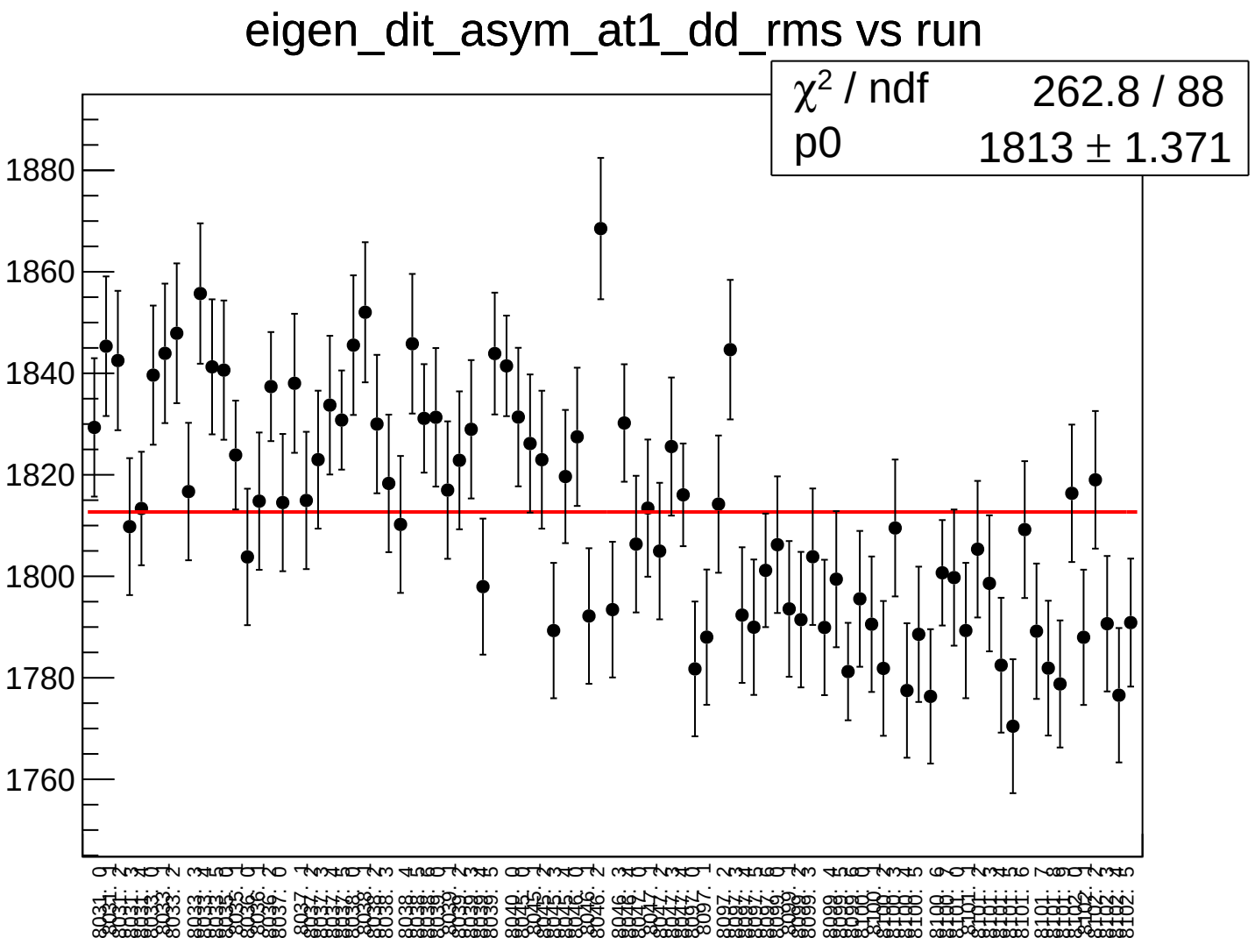

asym_at1_dd_dit_correction_mean vs run
χ² / ndf 98.62 / 88
p0 508.8 ± 612.7
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 89
Mean −122.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

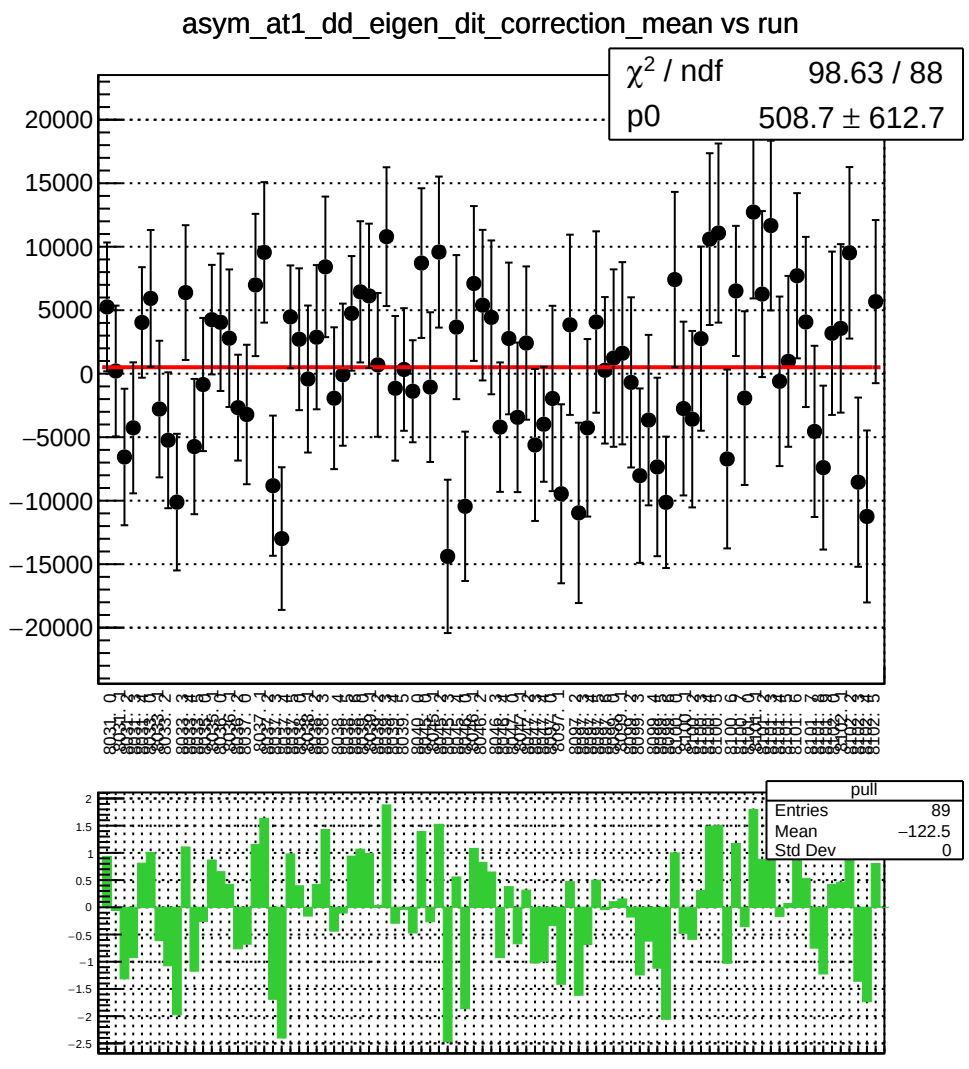

pull1D
Entries 89
Mean −0.004307
Std Dev 1.053
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

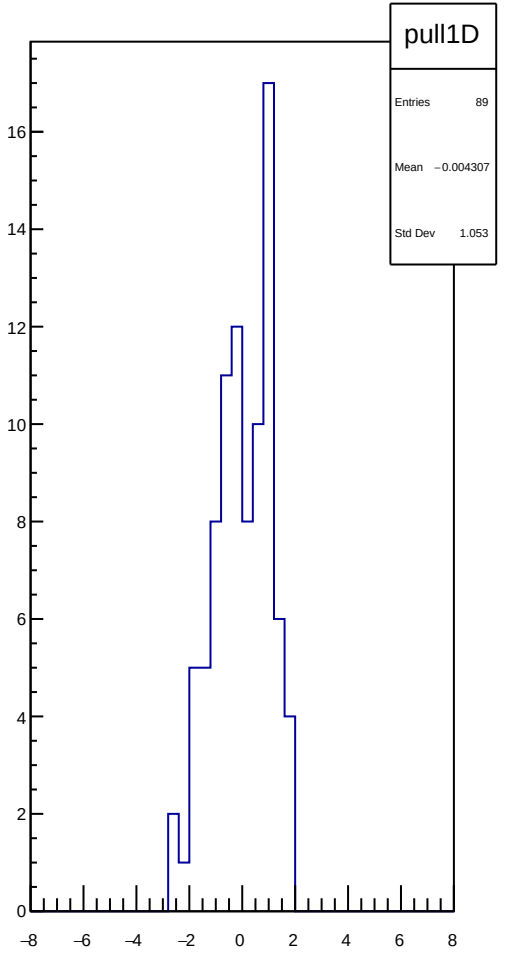

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 1.937e+04 / 88
p0 569.5 ± 0.4332
700
650
600
550
500

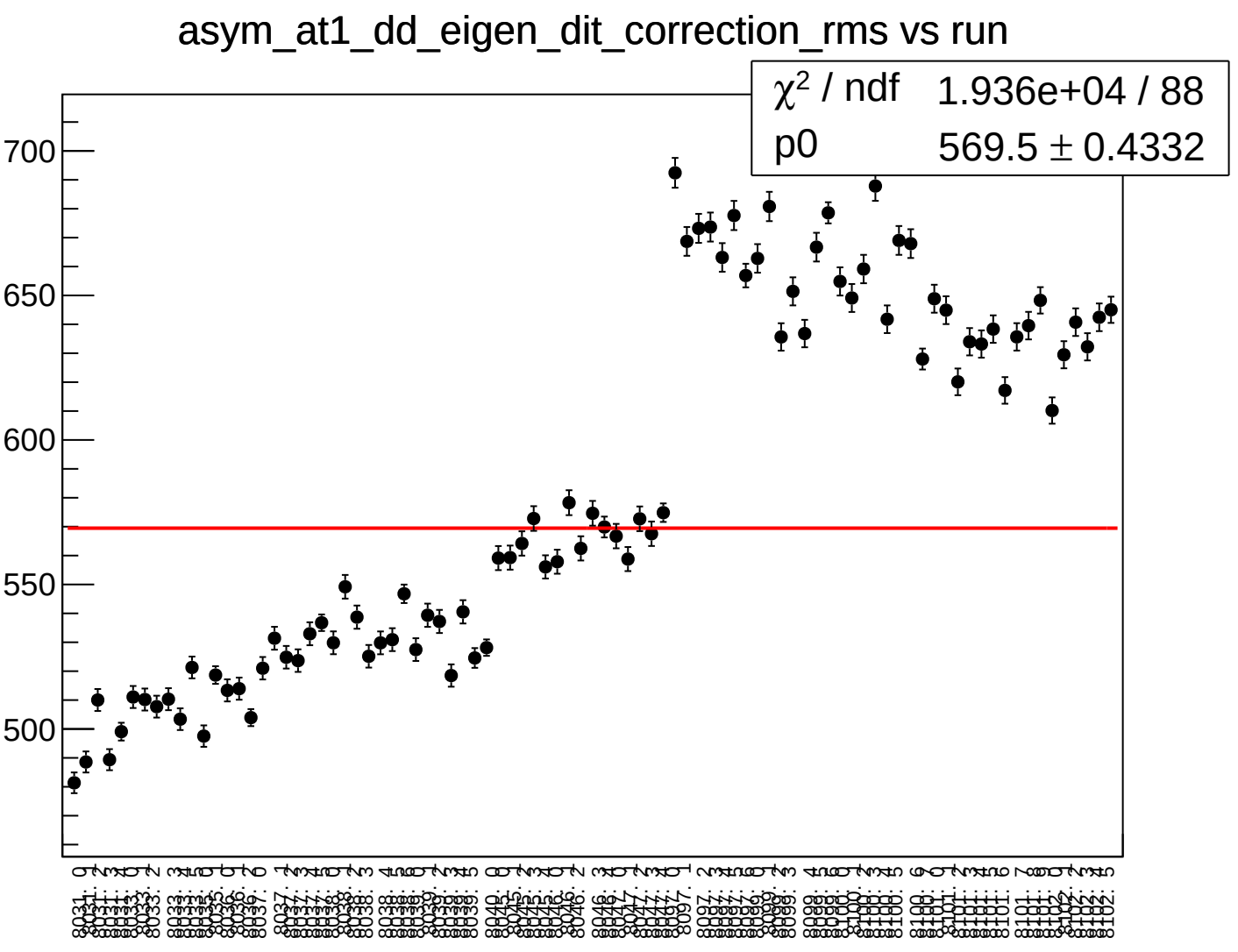

eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 75.74 / 88
p0 116.7 ± 1939
pull
Entries 89
Mean 70.85
Std Dev 0

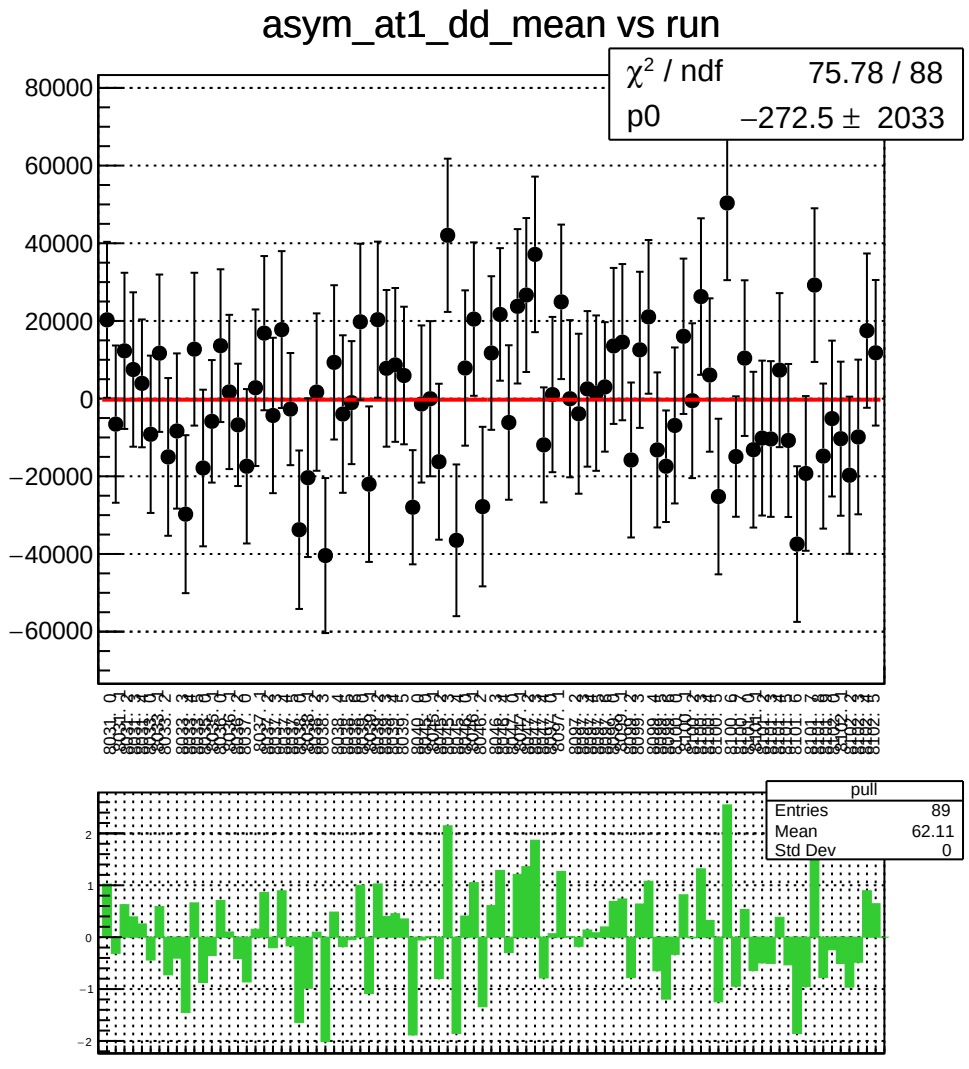

pull1D
Entries 89
Mean 0.01896
Std Dev 0.9223

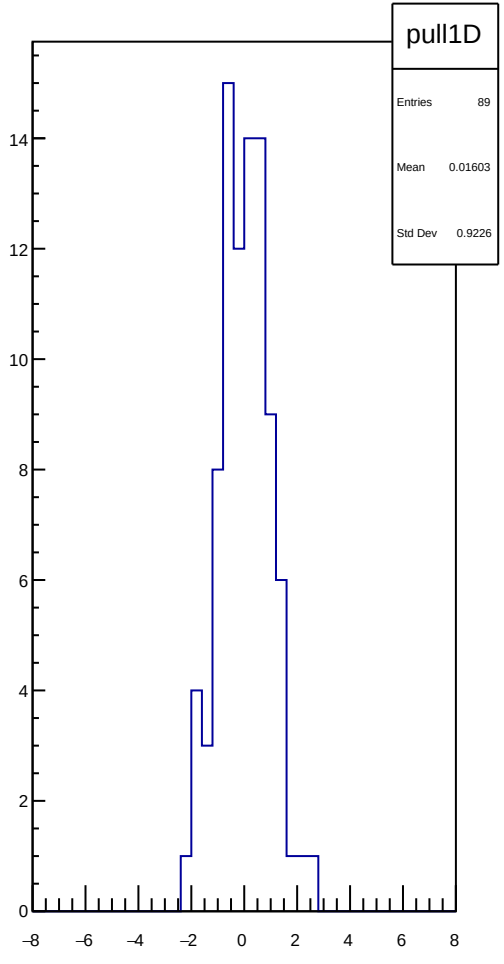

eigen_dit_asym_at1_dd_rms vs run
χ² / ndf 262.8 / 88
p0 1813 ± 1.371
1880
1860
1840
1820
1800
1780
1760

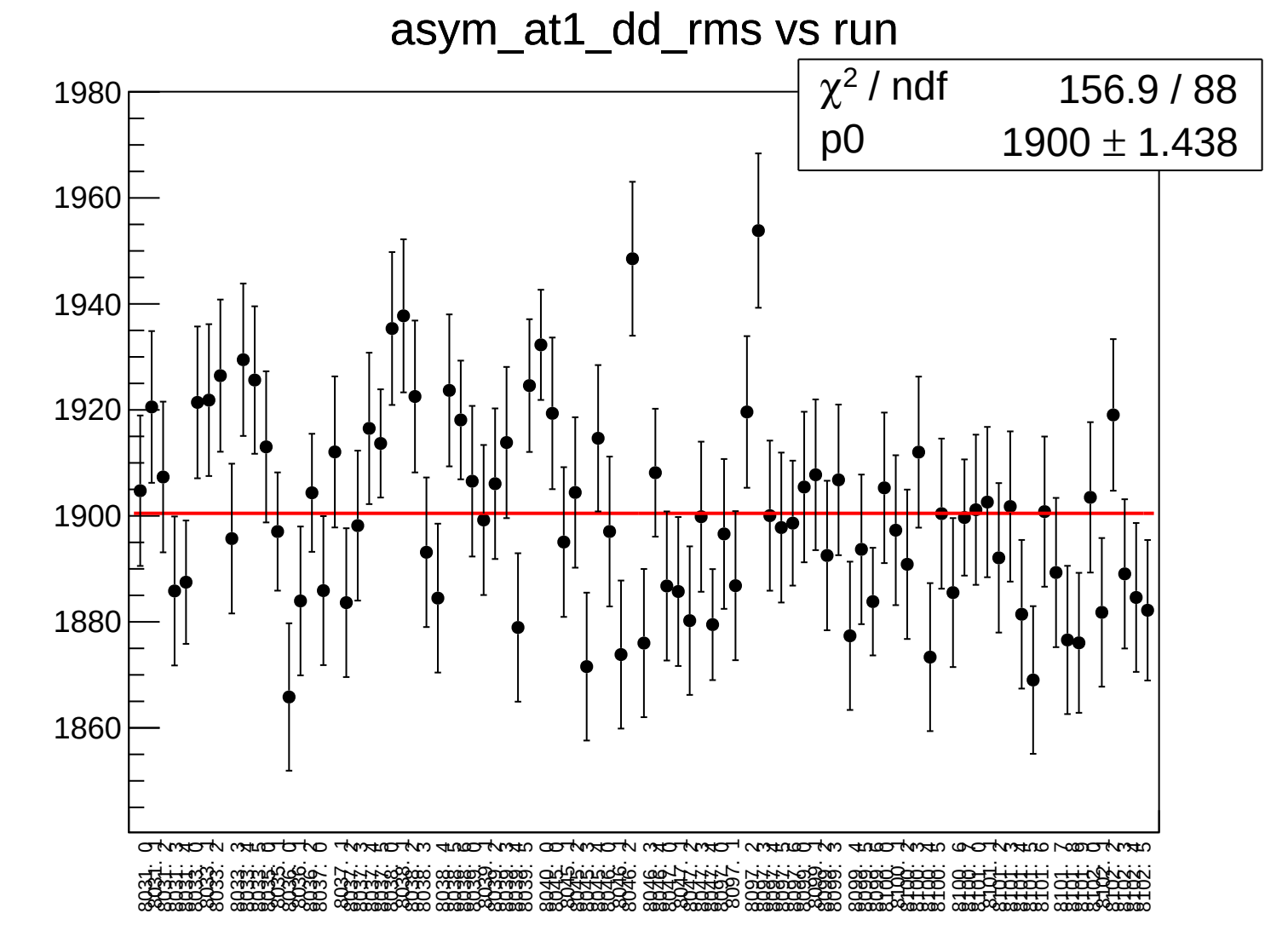

asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 98.63 / 88
p0 508.7 ± 612.7
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 89
Mean −122.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

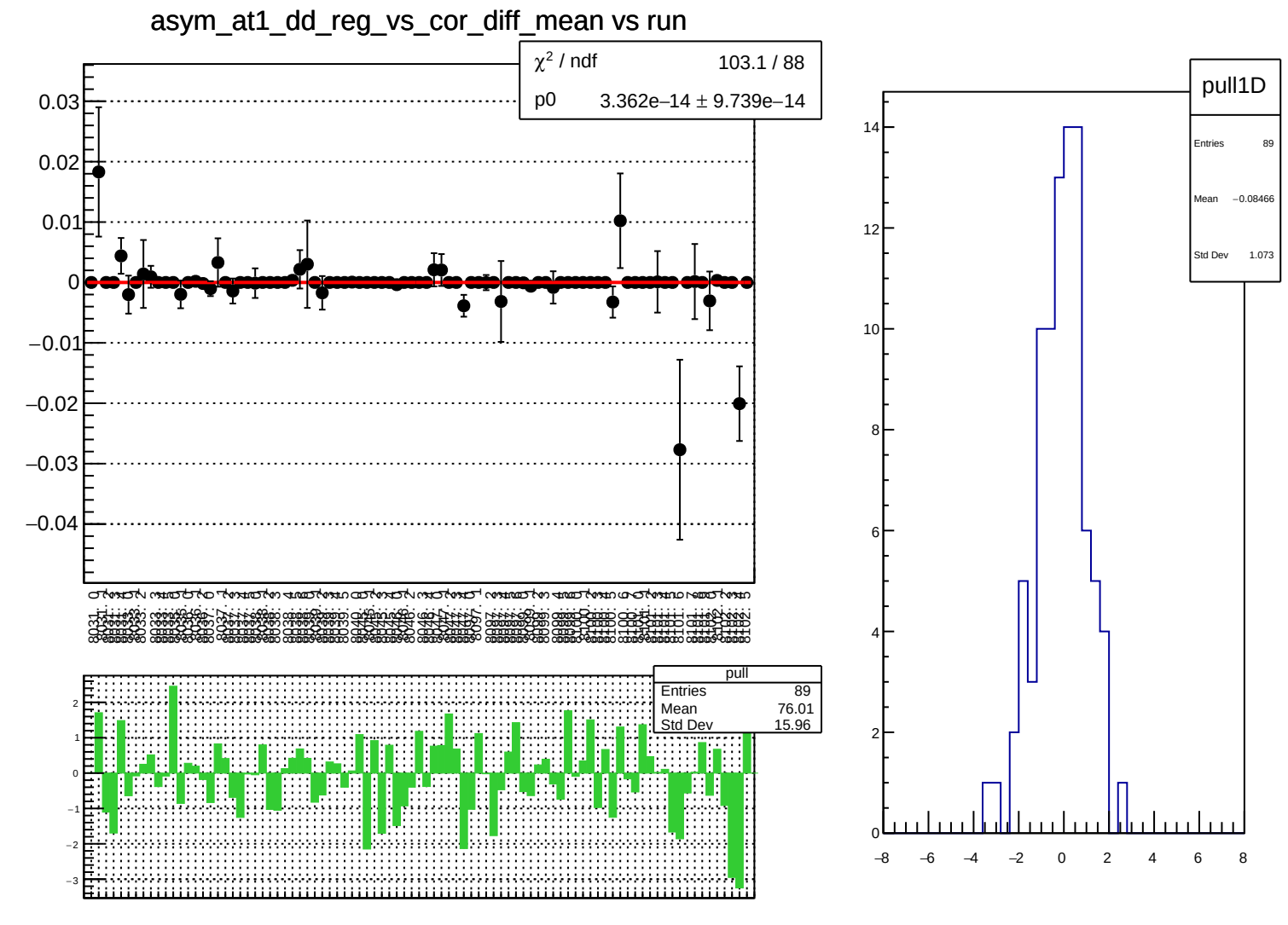

pull1D
Entries 89
Mean −0.004307
Std Dev 1.053
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

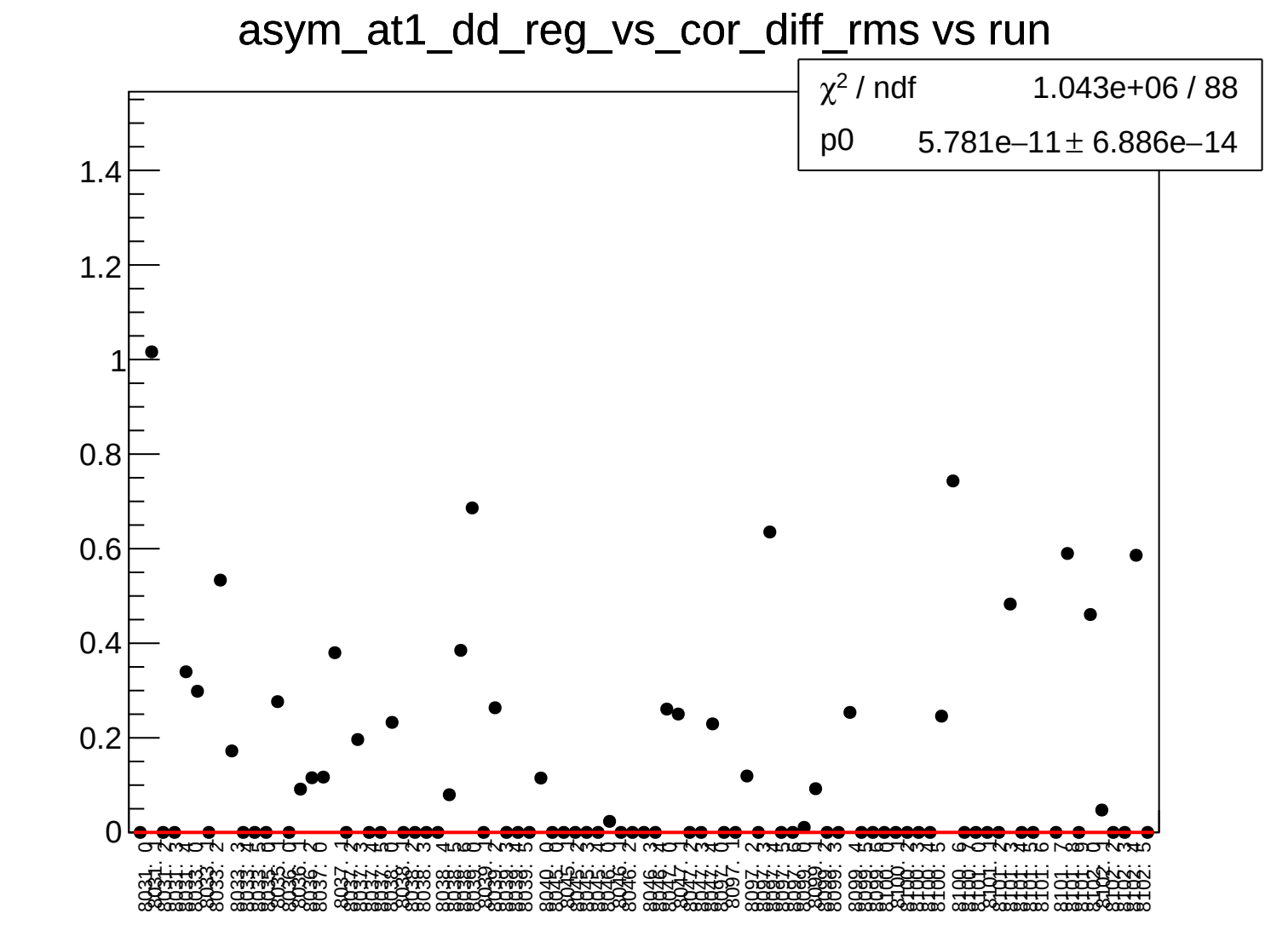

asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.936e+04 / 88
p0 569.5 ± 0.4332
700
650
600
550
500

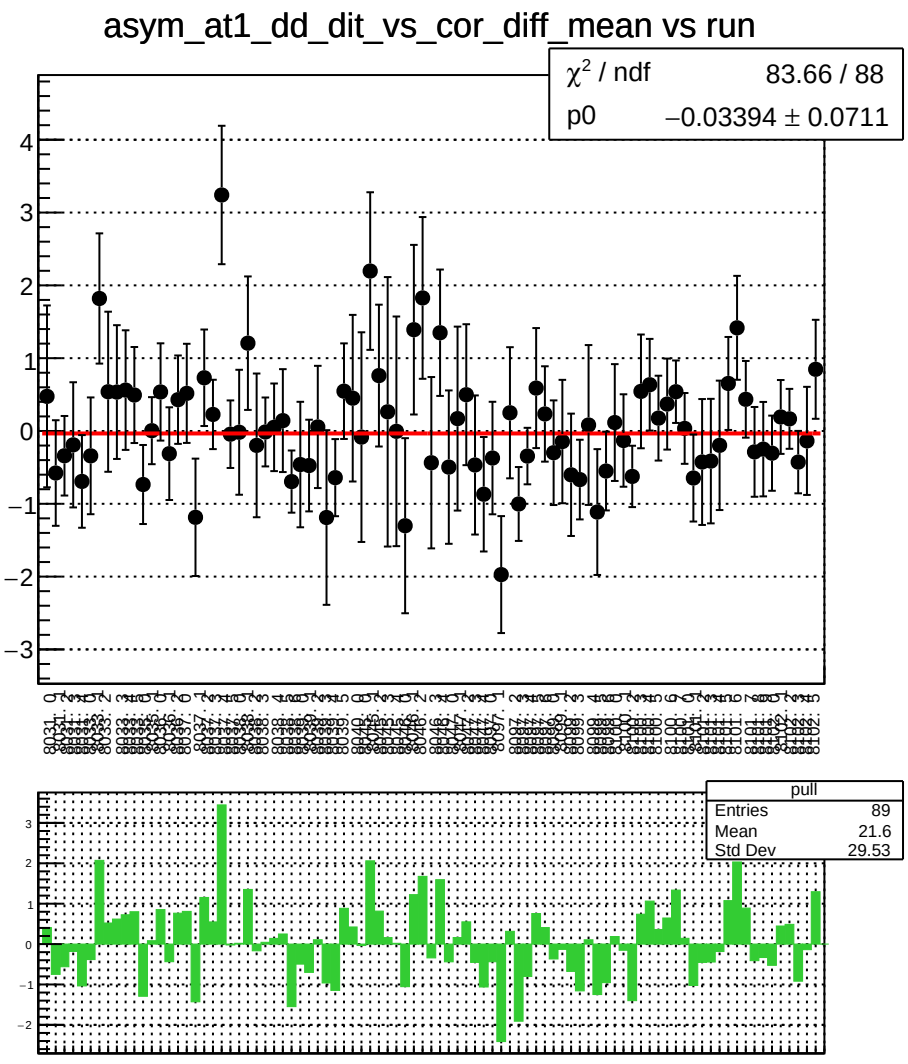

asym_at1_dd_mean vs run
χ² / ndf 75.78 / 88
p0 −272.5 ± 2033
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 62.11
Std Dev 0
2
1
0
−1
−2

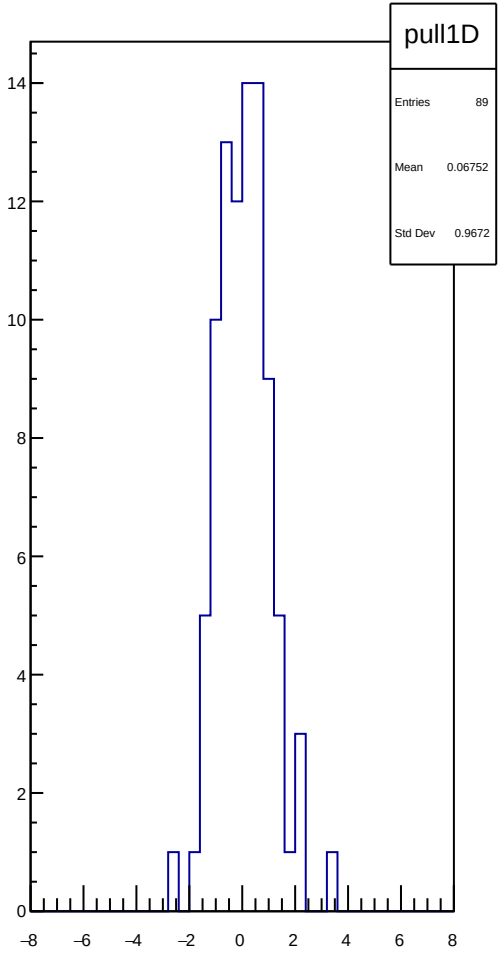

pull1D
Entries 89
Mean 0.01603
Std Dev 0.9226
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

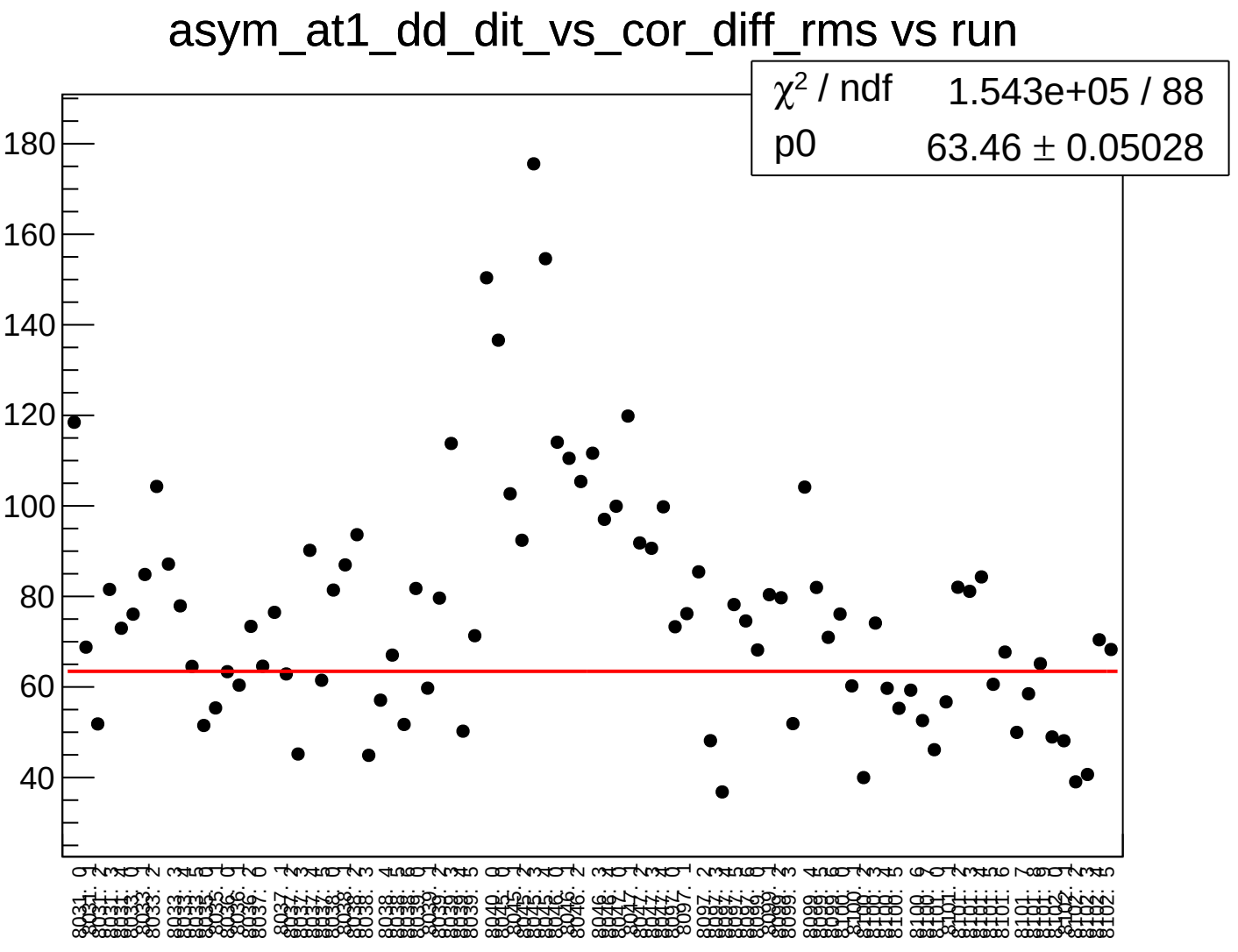

asym_at1_dd_rms vs run
χ² / ndf 156.9 / 88
p0 1900 ± 1.438
1980
1960
1940
1920
1900
1880
1860


asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 103.1 / 88
p0 3.362e−14 ± 9.739e−14
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 89
Mean 76.01
Std Dev 15.96
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.08466
Std Dev 1.073
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

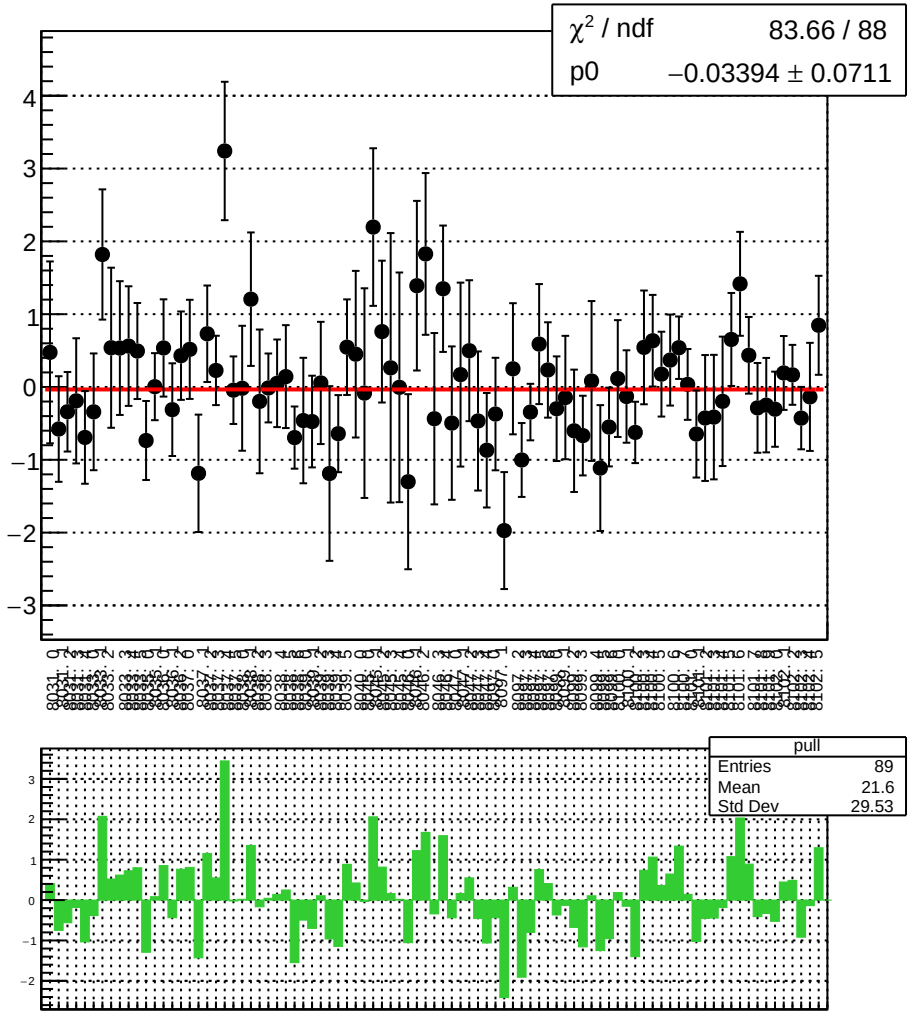

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.043e+06 / 88
p0 5.781e−11 ± 6.886e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

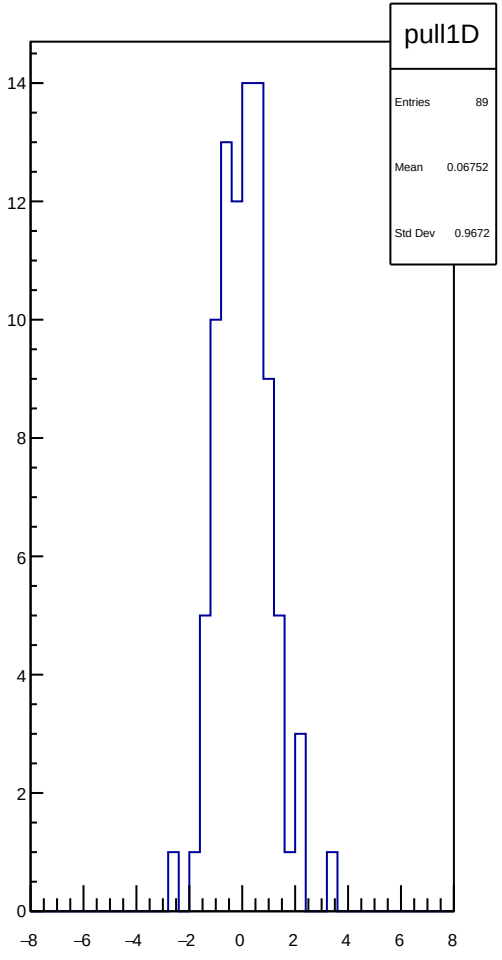

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 83.66 / 88
p0 −0.03394 ± 0.0711
pull
Entries 89
Mean 21.6
Std Dev 29.53

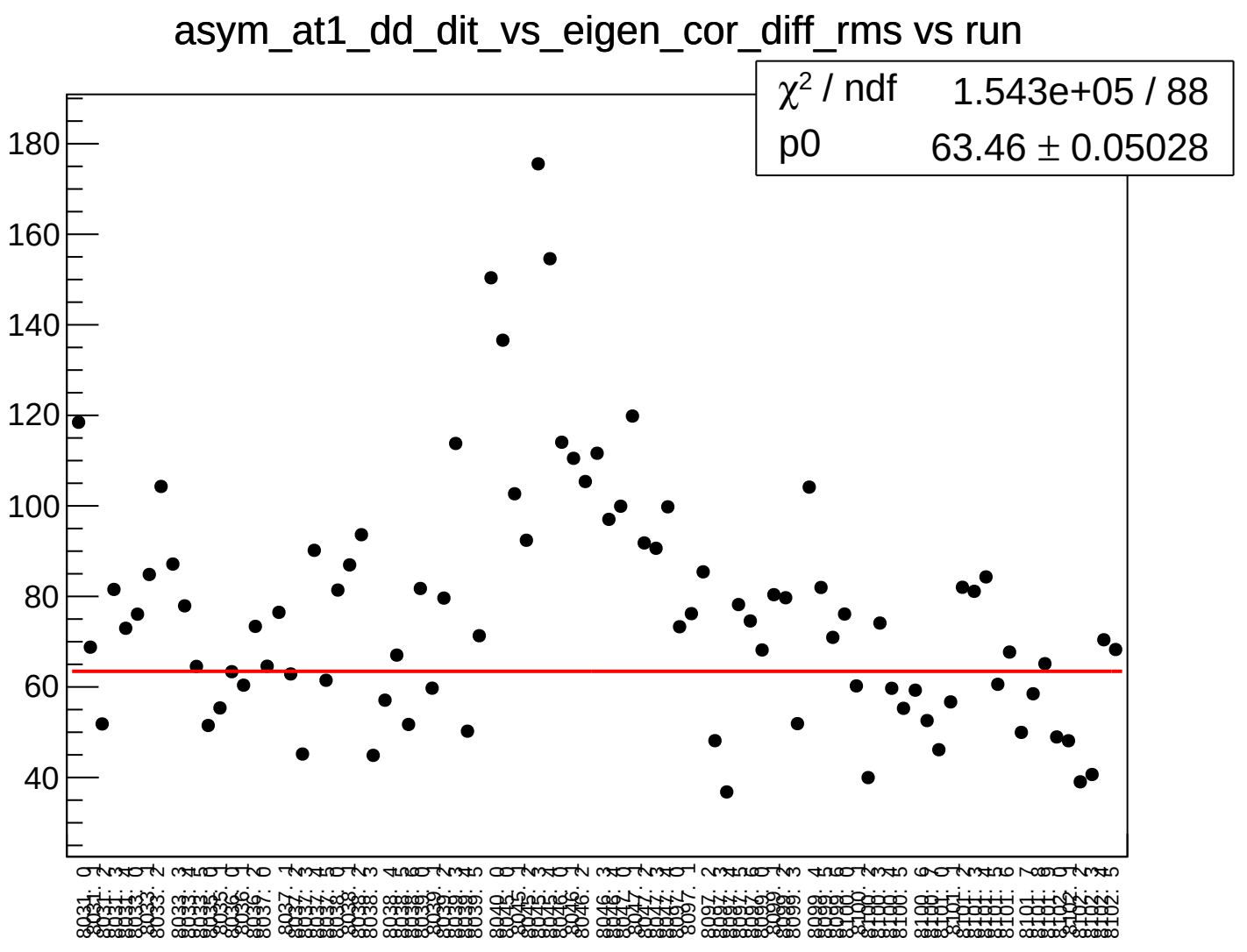

pull1D
Entries 89
Mean 0.06752
Std Dev 0.9672

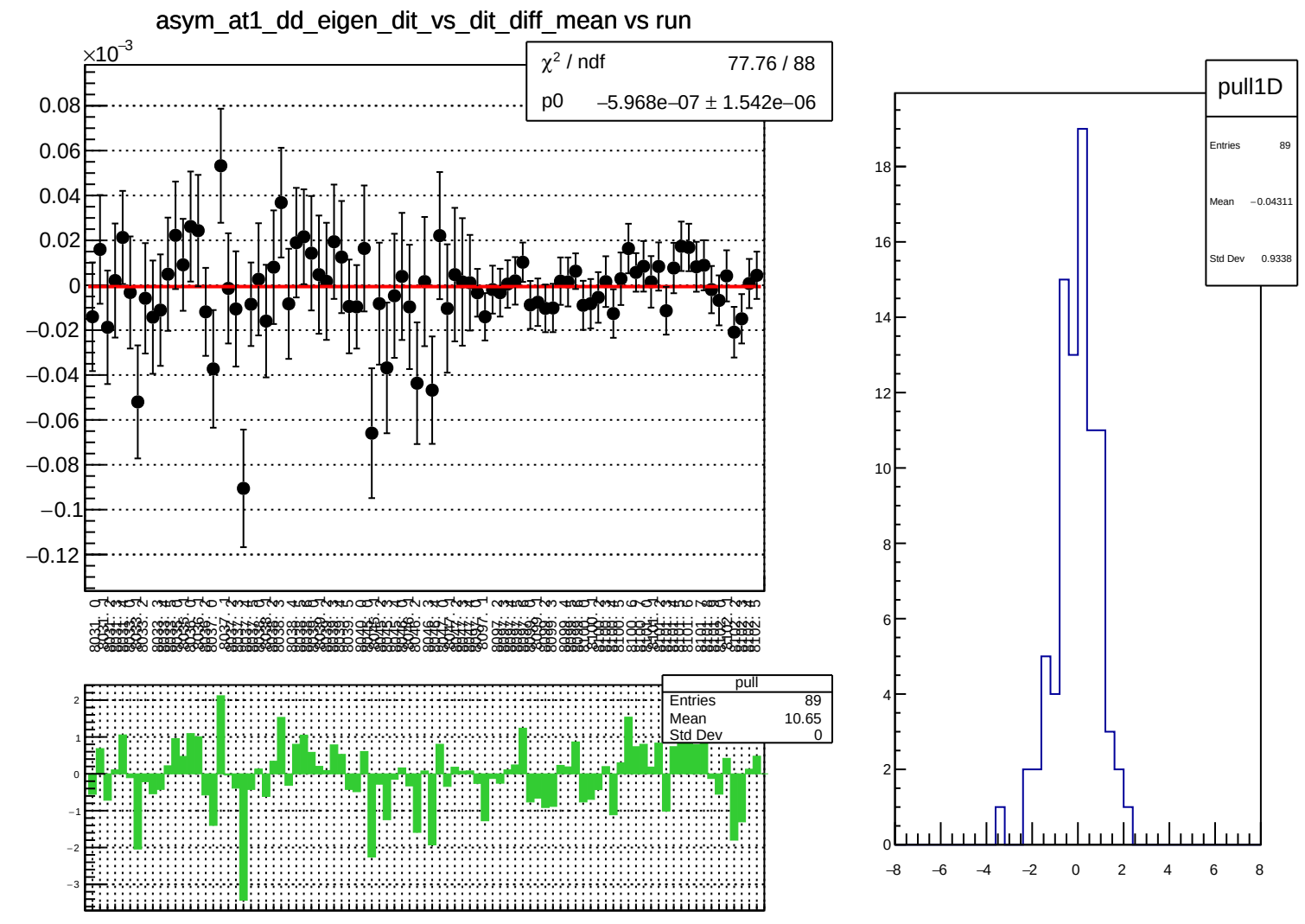

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.543e+05 / 88
p0 63.46 ± 0.05028
180
160
140
120
100
80
60
40

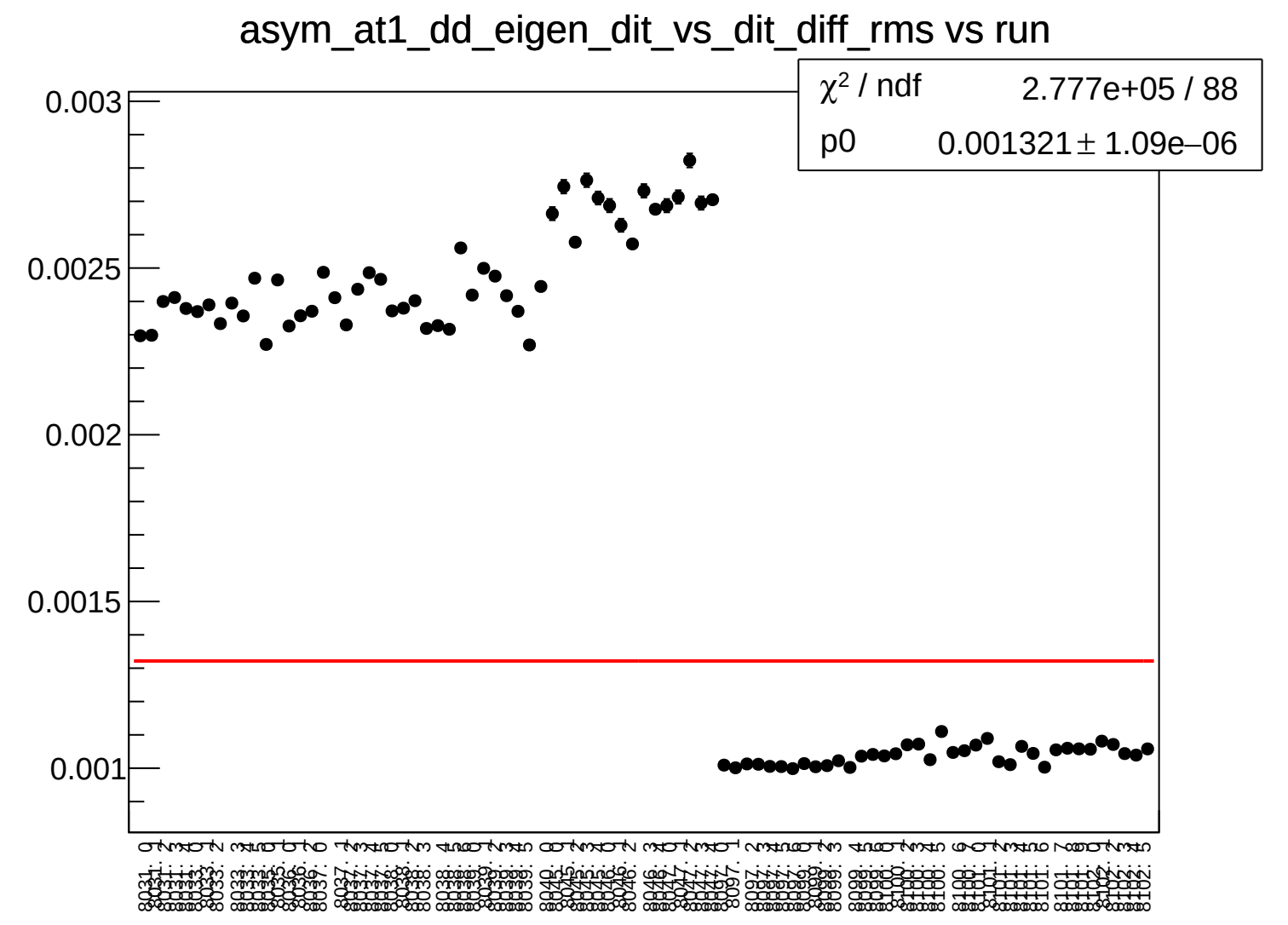
asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run

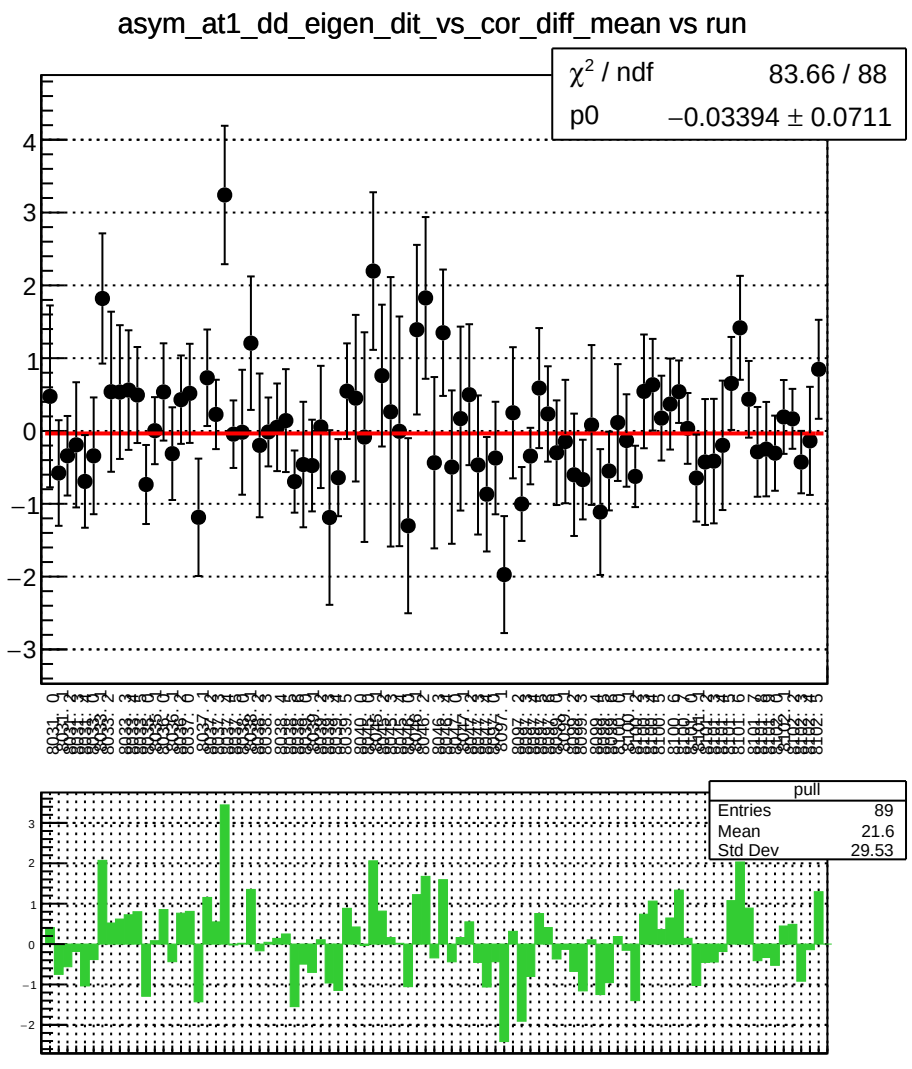


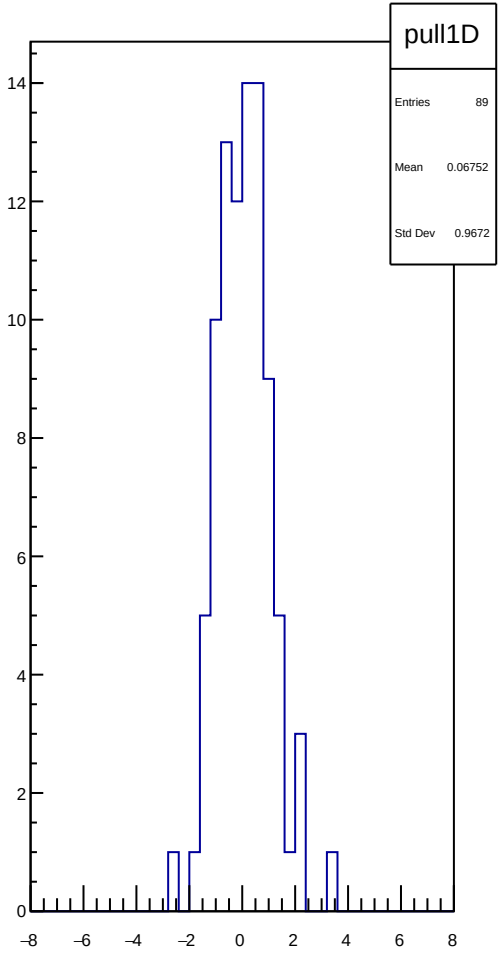



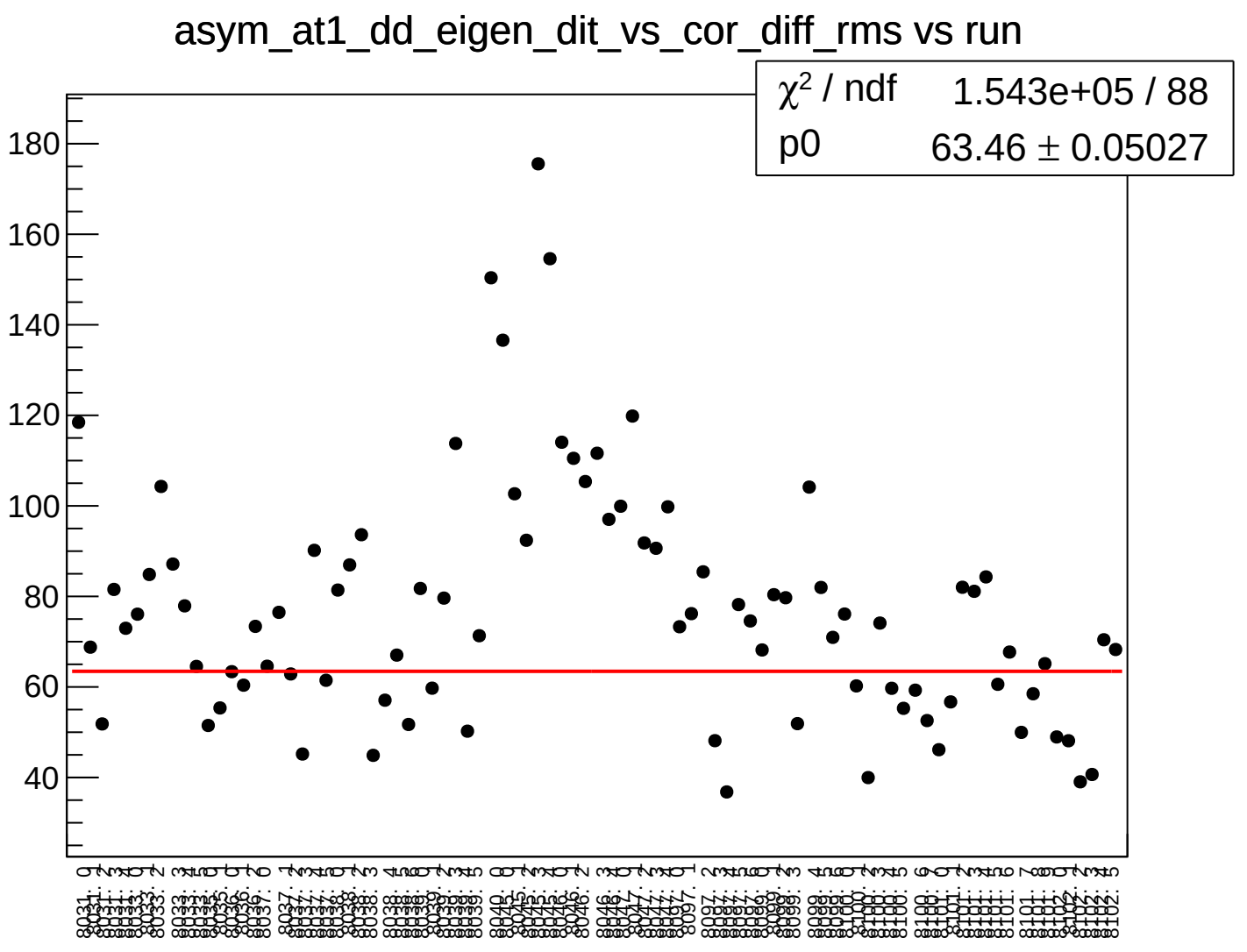

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.543e+05 / 88
p0 63.46 ± 0.05028
180
160
140
120
100
80
60
40

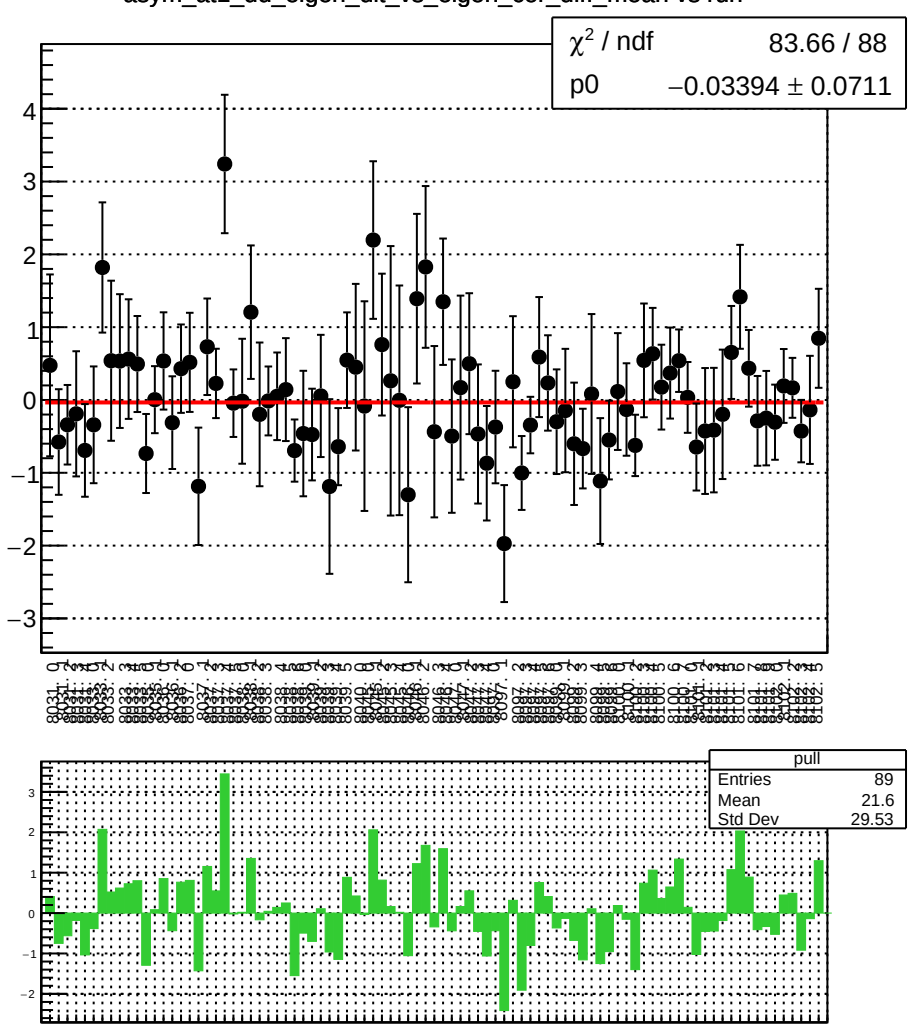

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.76 / 88
p0 −5.968e−07 ± 1.542e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
pull
Entries 89
Mean 10.65
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.04311
Std Dev 0.9338
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

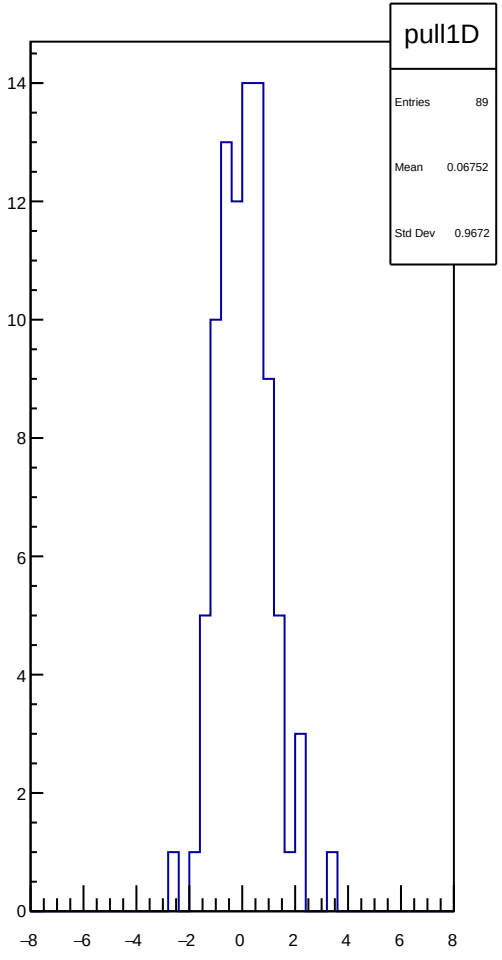

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.777e+05 / 88
p0 0.001321 ± 1.09e–06
0.003
0.0025
0.002
0.0015
0.001

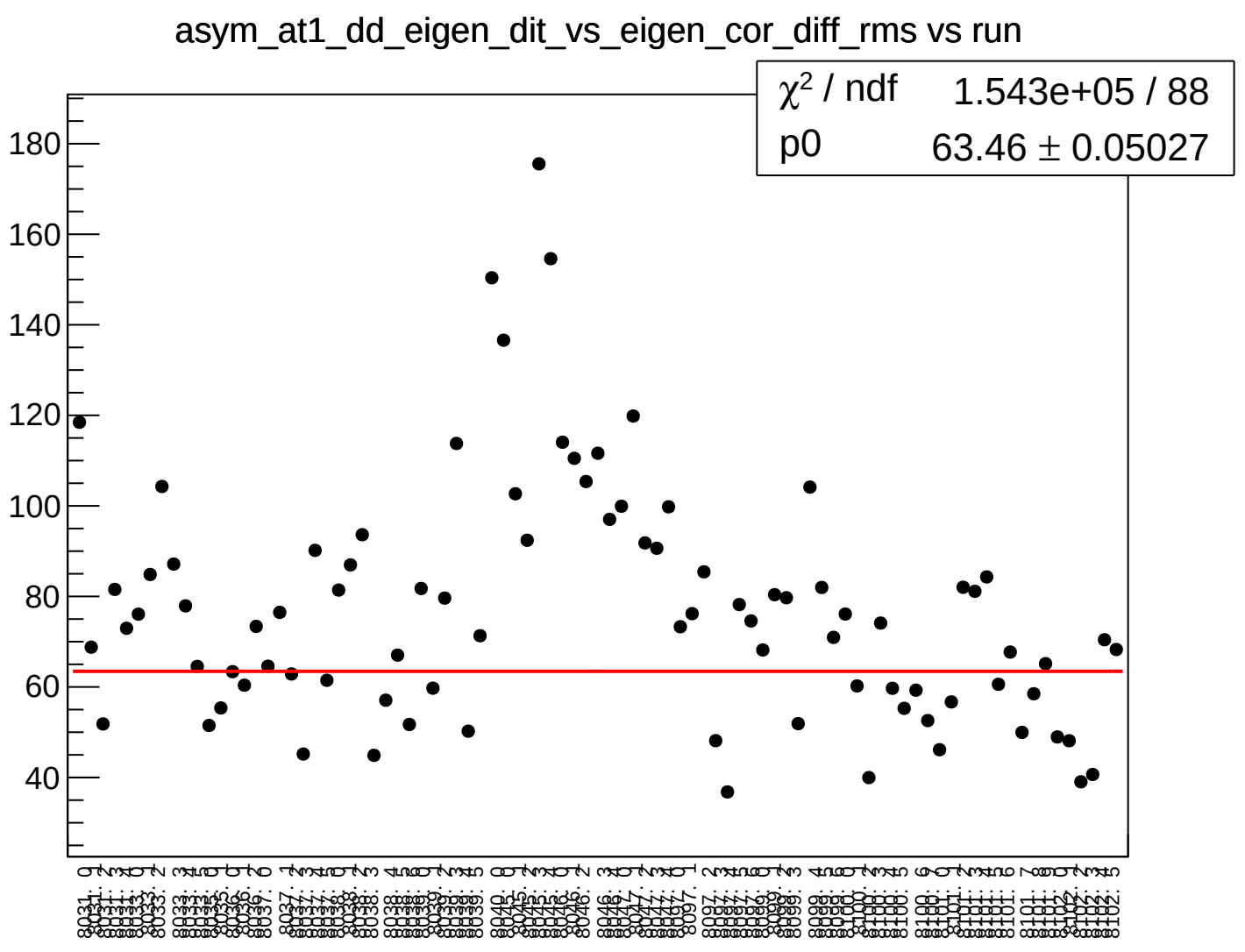

asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.66 / 88
p0 −0.03394 ± 0.0711
pull
Entries 89
Mean 21.6
Std Dev 29.53

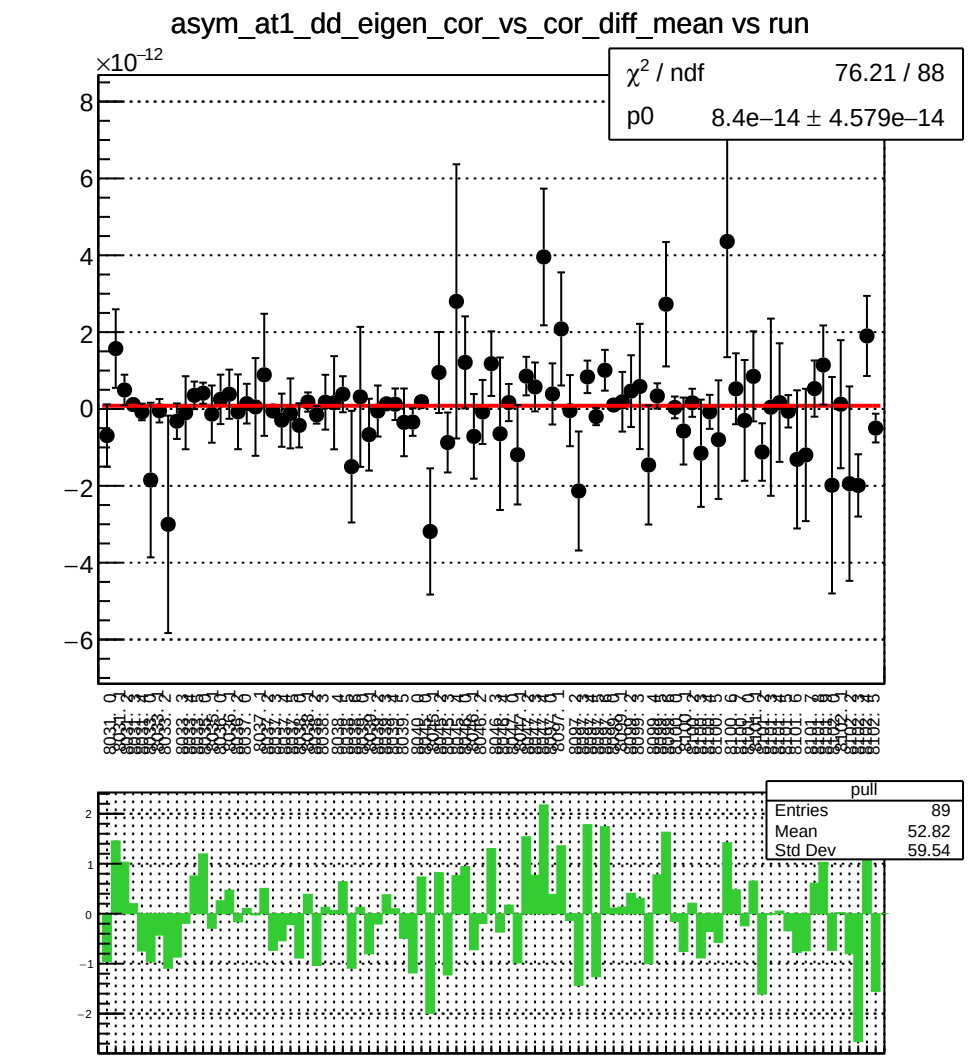

pull1D
Entries 89
Mean 0.06752
Std Dev 0.9672

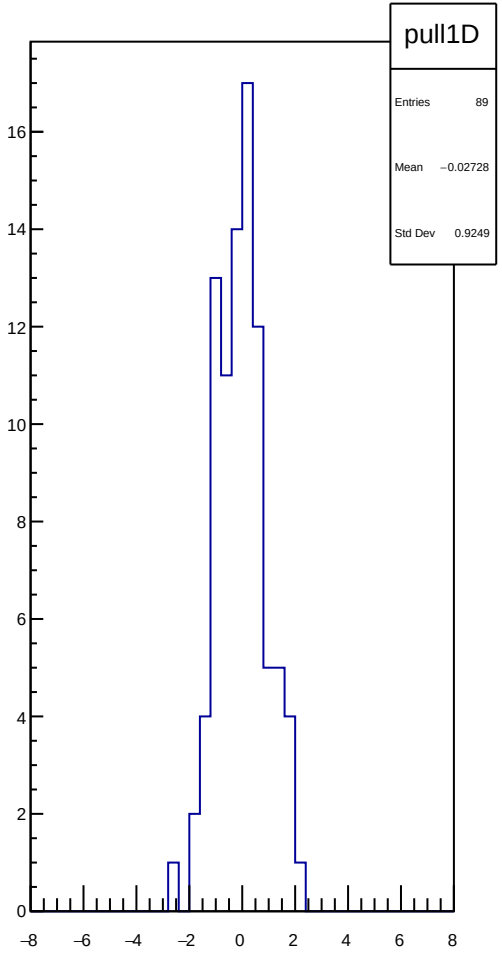

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.543e+05 / 88
p0 63.46 ± 0.05027
180
160
140
120
100
80
60
40

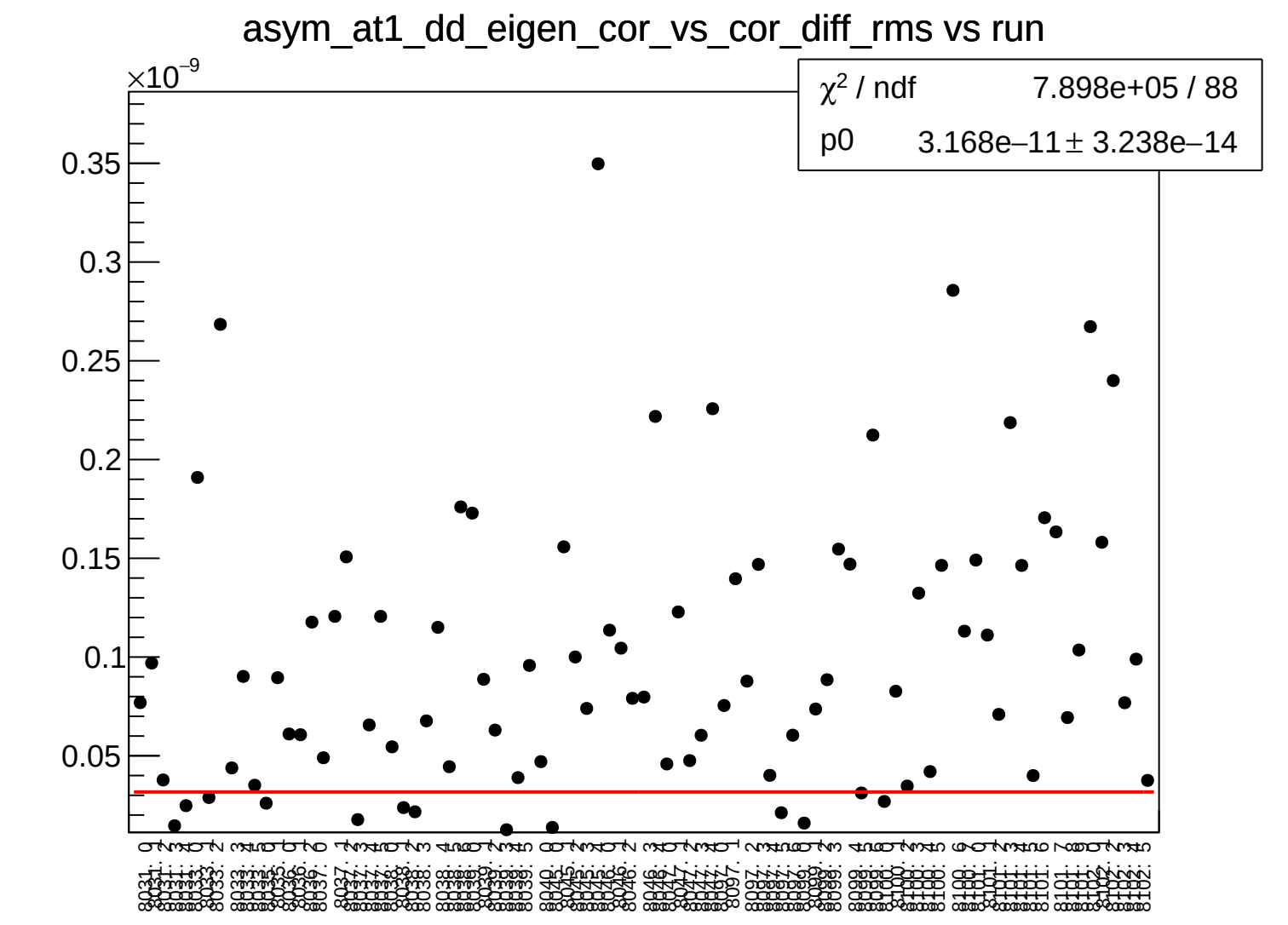

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.66 / 88
p0 −0.03394 ± 0.0711
pull
Entries 89
Mean 21.6
Std Dev 29.53

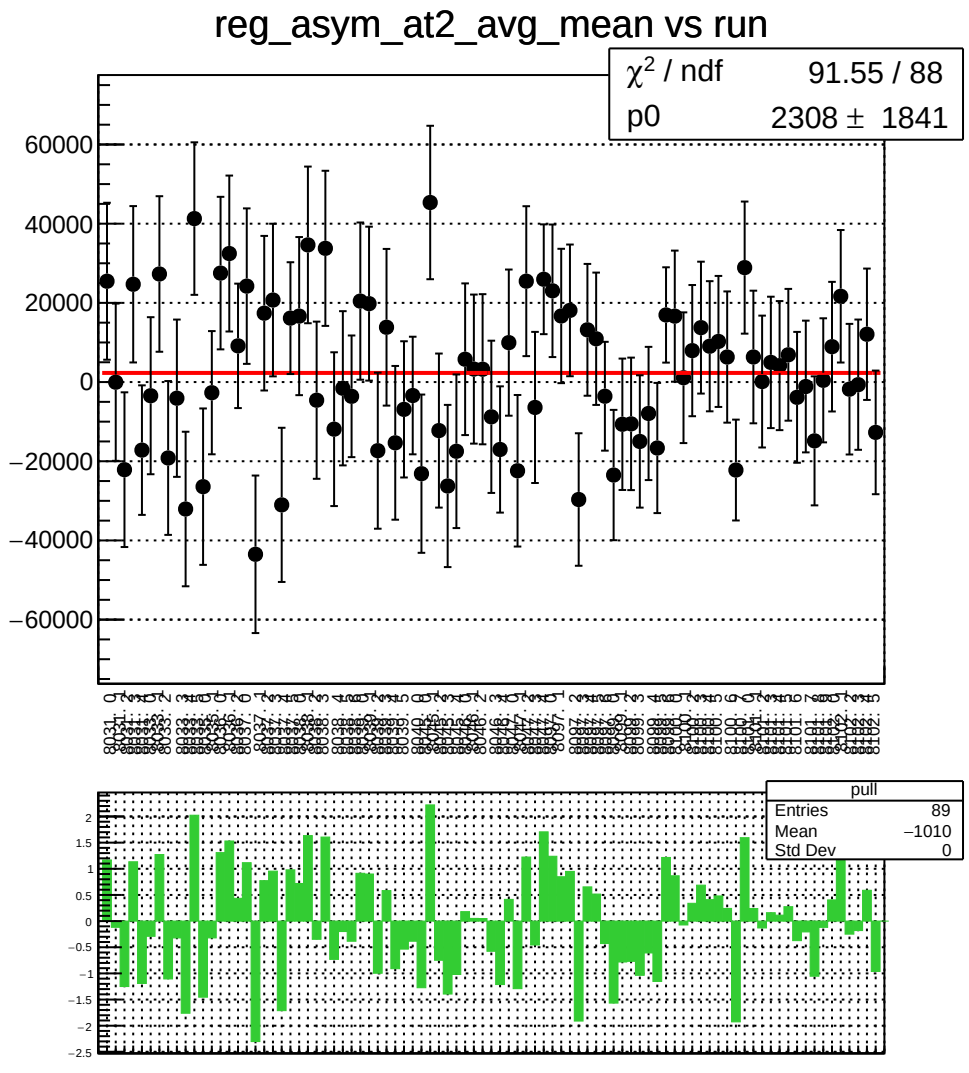

pull1D
Entries 89
Mean 0.06752
Std Dev 0.9672

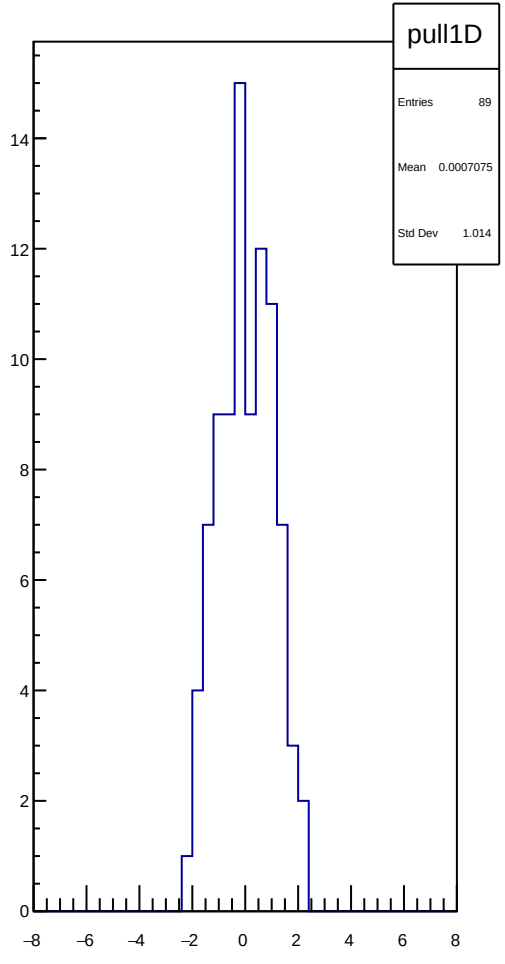

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.543e+05 / 88
p0 63.46 ± 0.05027
180
160
140
120
100
80
60
40

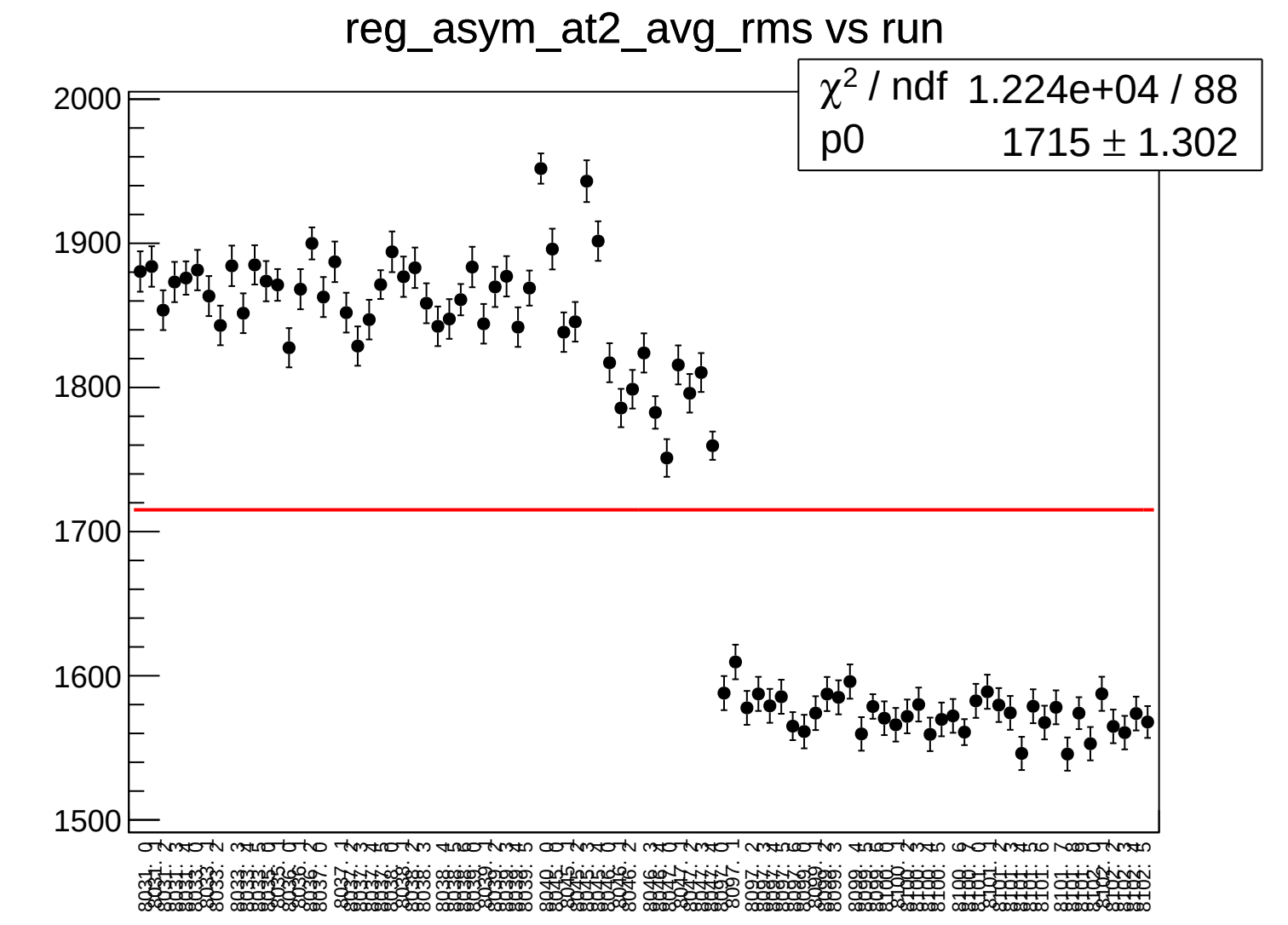

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.21 / 88
p0 8.4e−14 ± 4.579e−14
pull
Entries 89
Mean 52.82
Std Dev 59.54

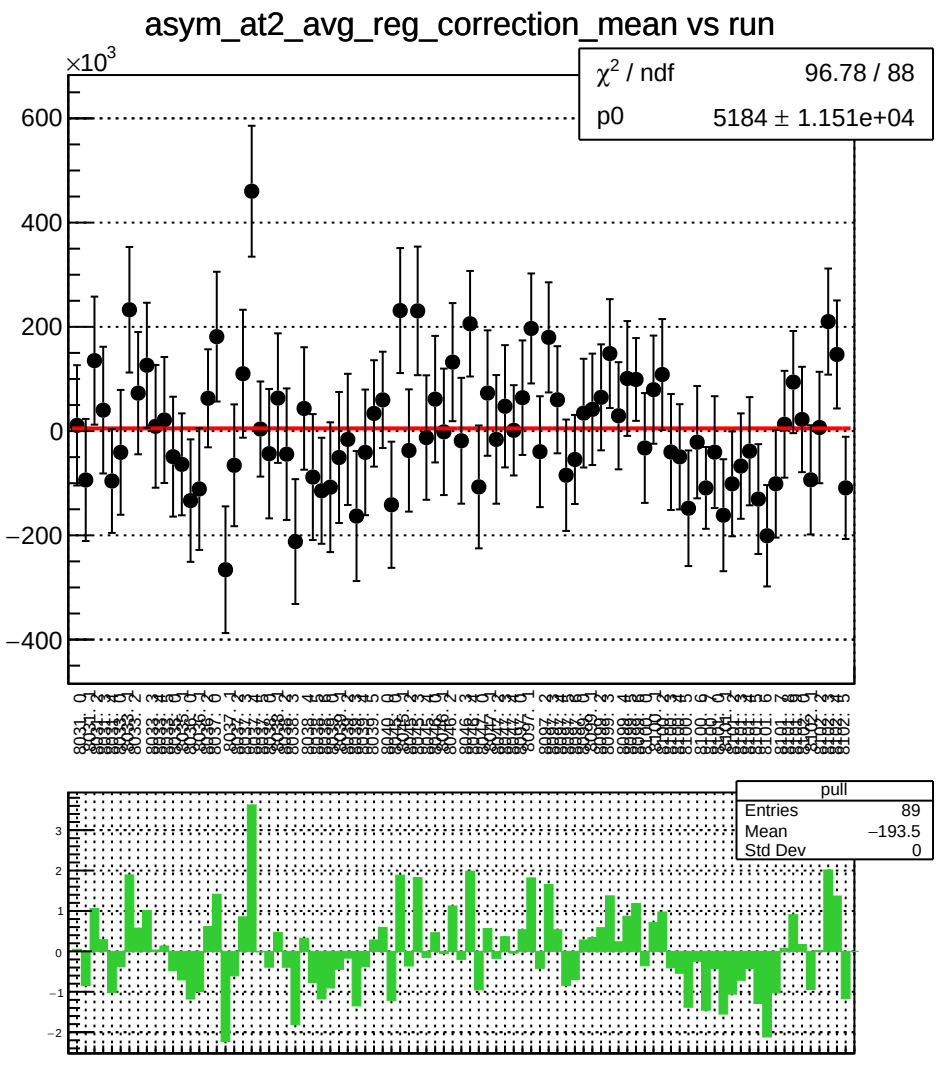

pull1D
Entries 89
Mean −0.02728
Std Dev 0.9249

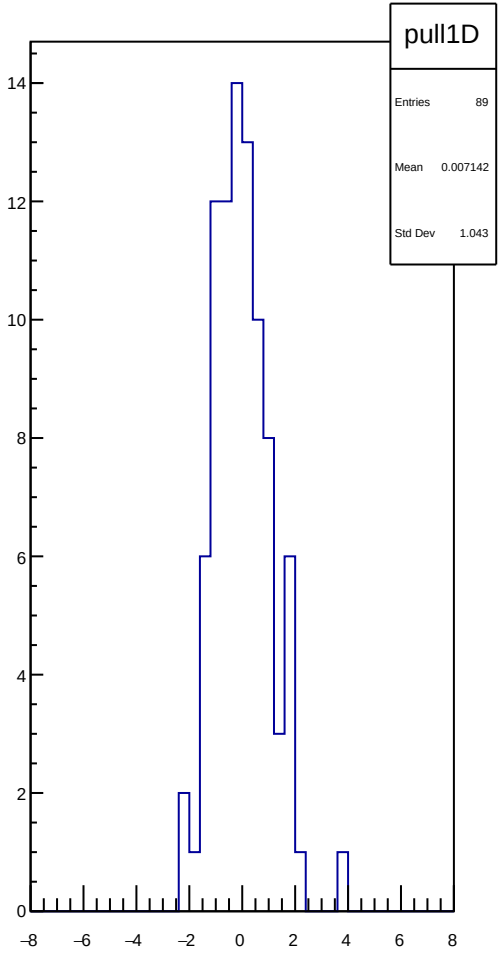

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.898e+05 / 88
p0 3.168e−11 ± 3.238e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

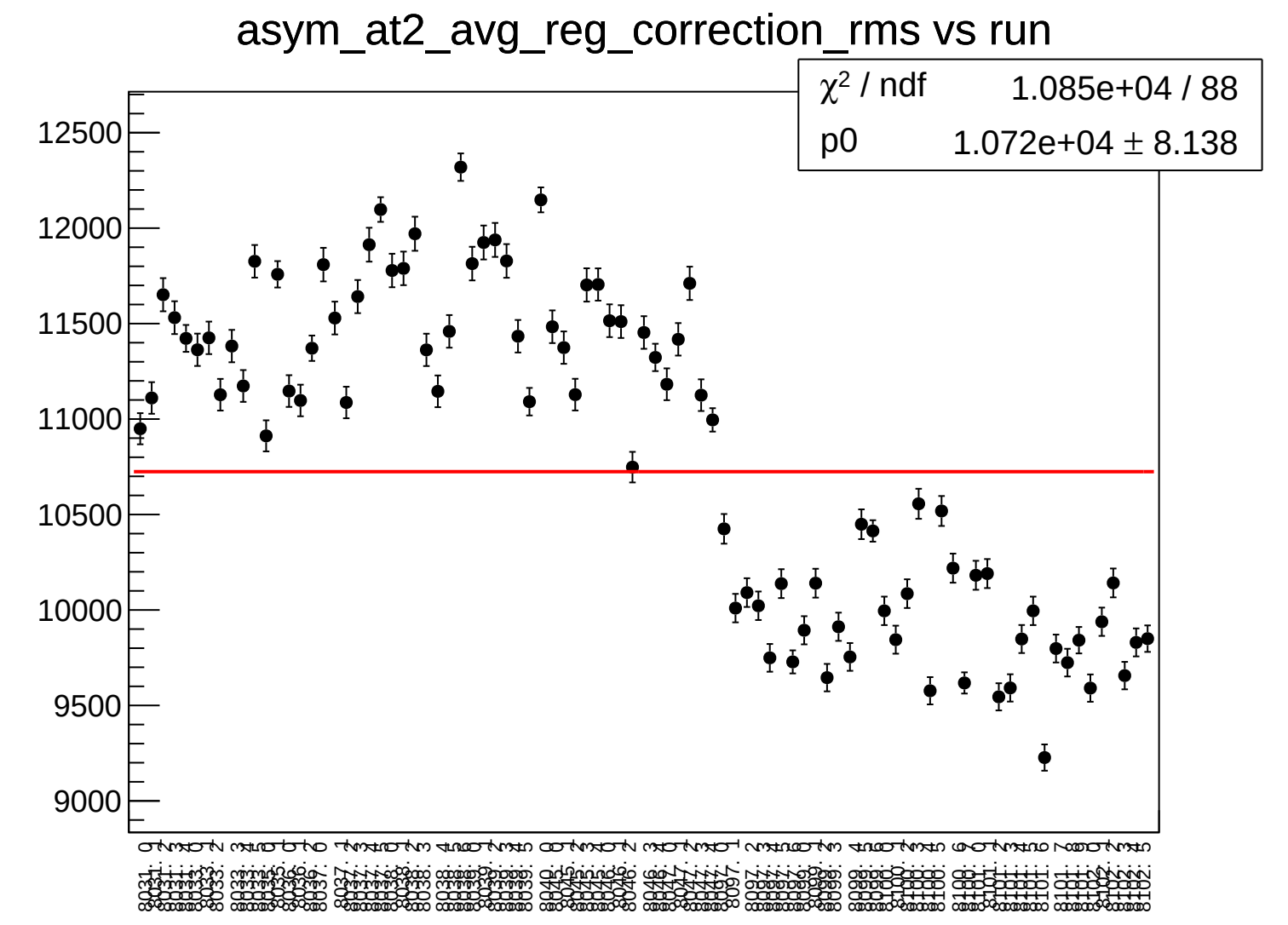

reg_asym_at2_avg_mean vs run
χ² / ndf 91.55 / 88
p0 2308 ± 1841
pull
Entries 89
Mean −1010
Std Dev 0

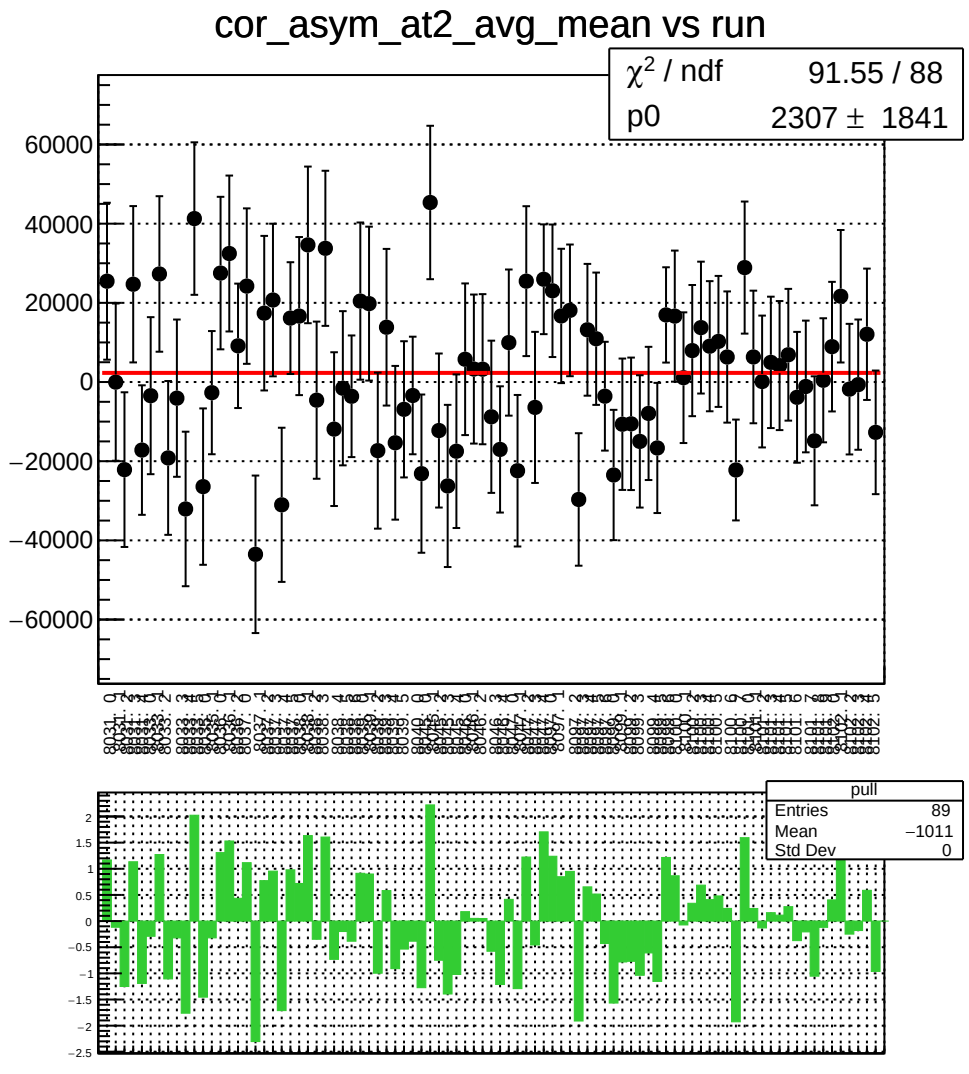

pull1D
Entries 89
Mean 0.0007075
Std Dev 1.014

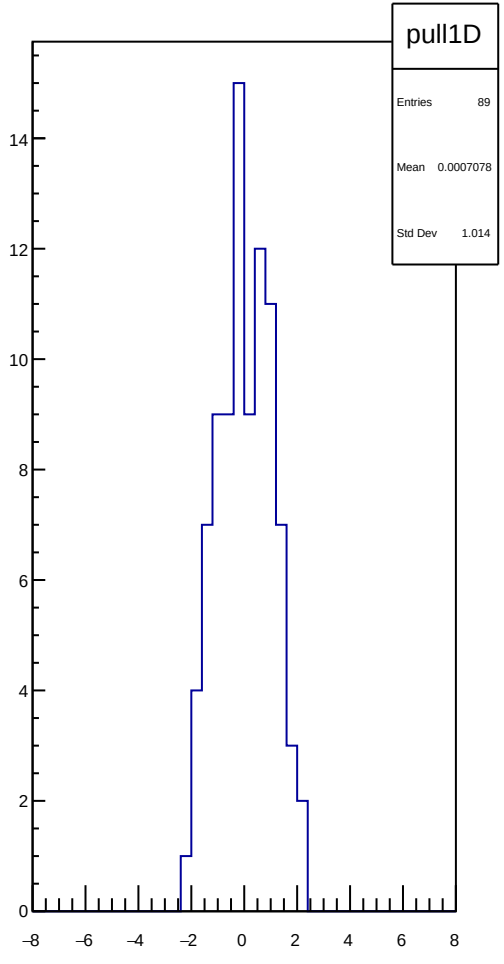

reg_asym_at2_avg_rms vs run
χ² / ndf 1.224e+04 / 88
p0 1715 ± 1.302
2000
1900
1800
1700
1600
1500

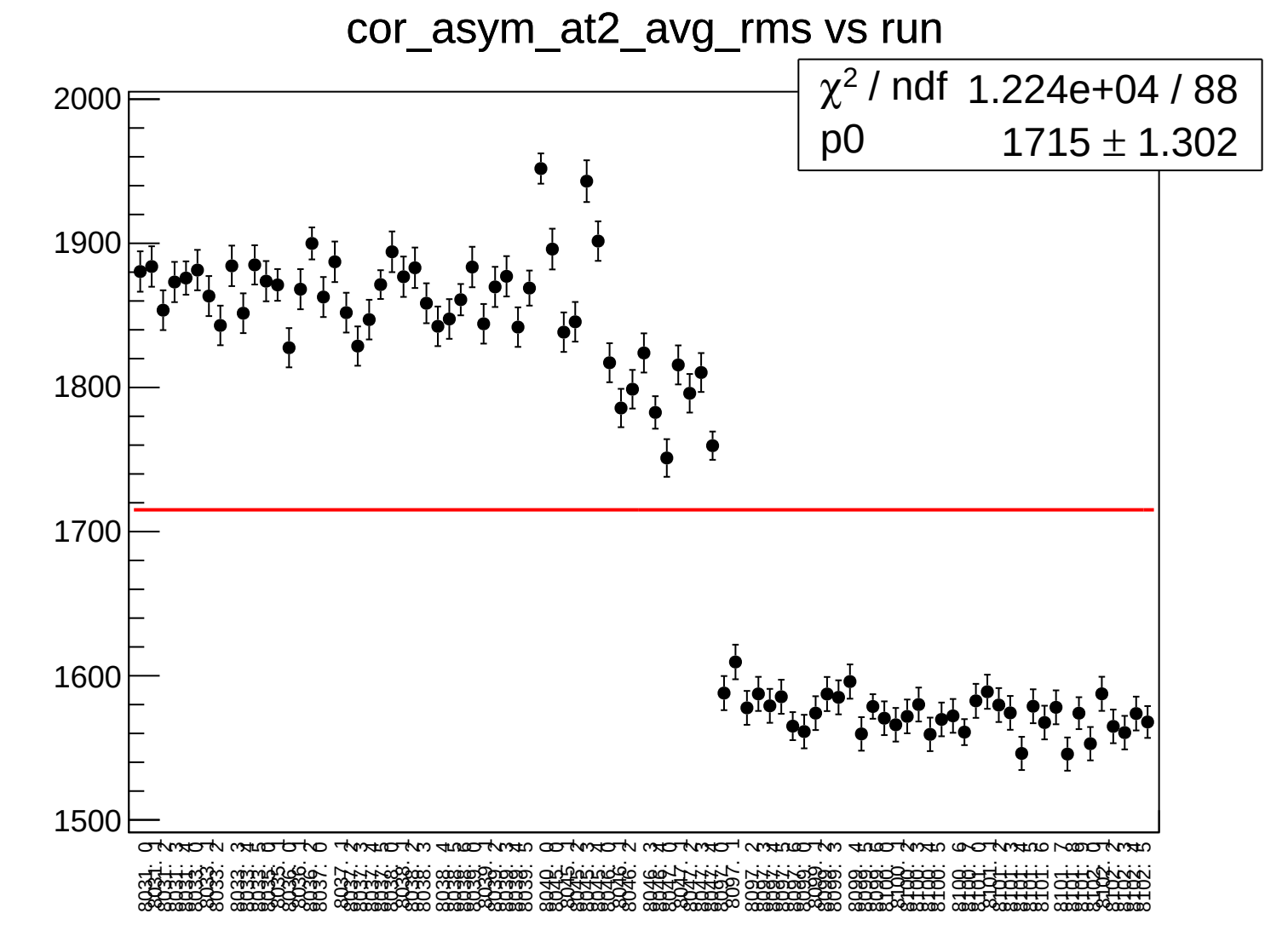

asym_at2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 96.78 / 88
p0 5184 ± 1.151e+04
600
400
200
0
−200
−400
pull
Entries 89
Mean −193.5
Std Dev 0
3
2
1
0
−1
−2

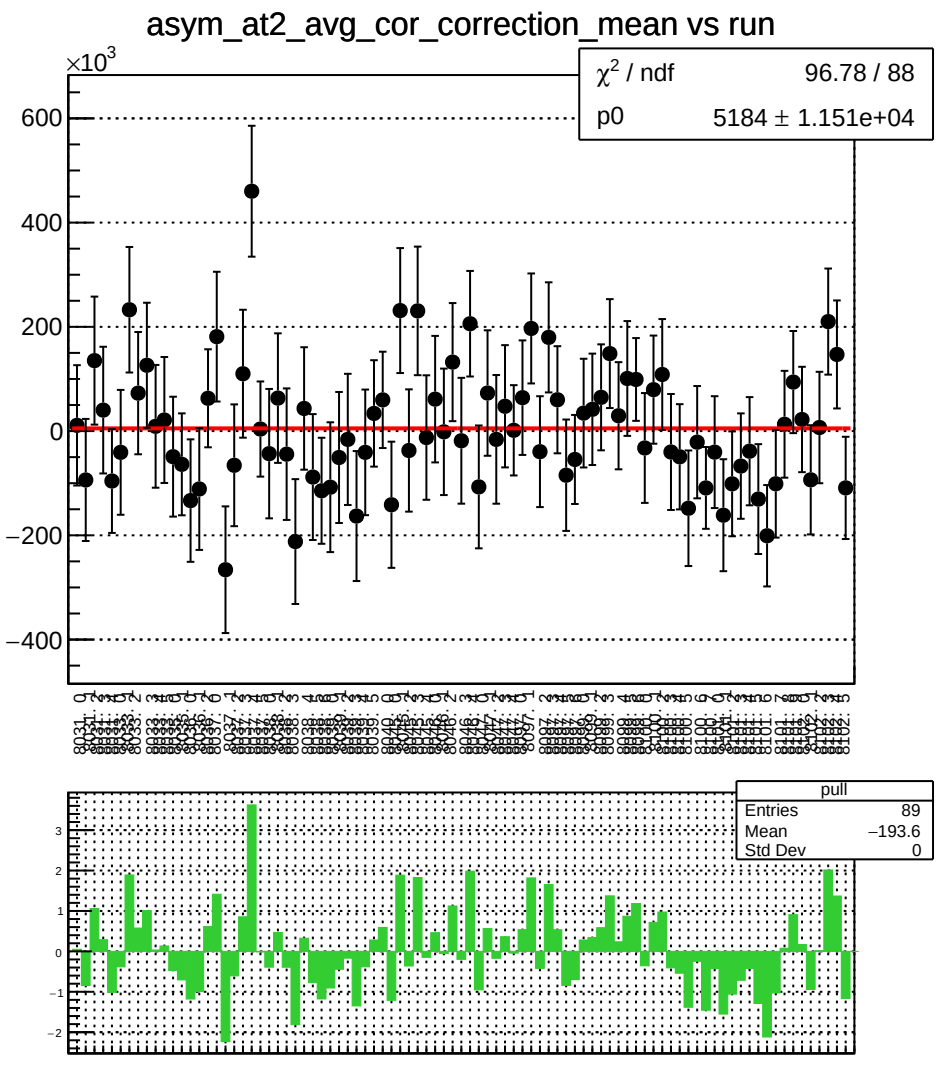

pull1D
Entries 89
Mean 0.007142
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

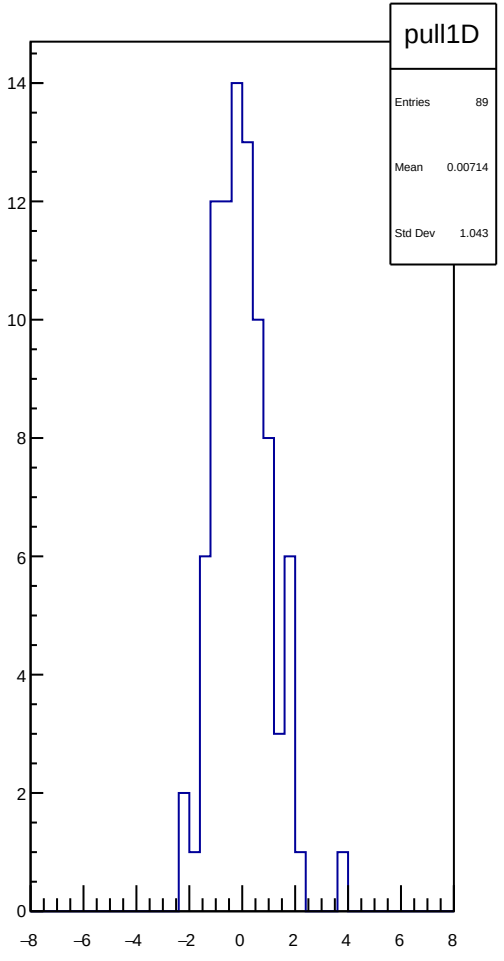

asym_at2_avg_reg_correction_rms vs run
χ² / ndf 1.085e+04 / 88
p0 1.072e+04 ± 8.138
12500
12000
11500
11000
10500
10000
9500
9000

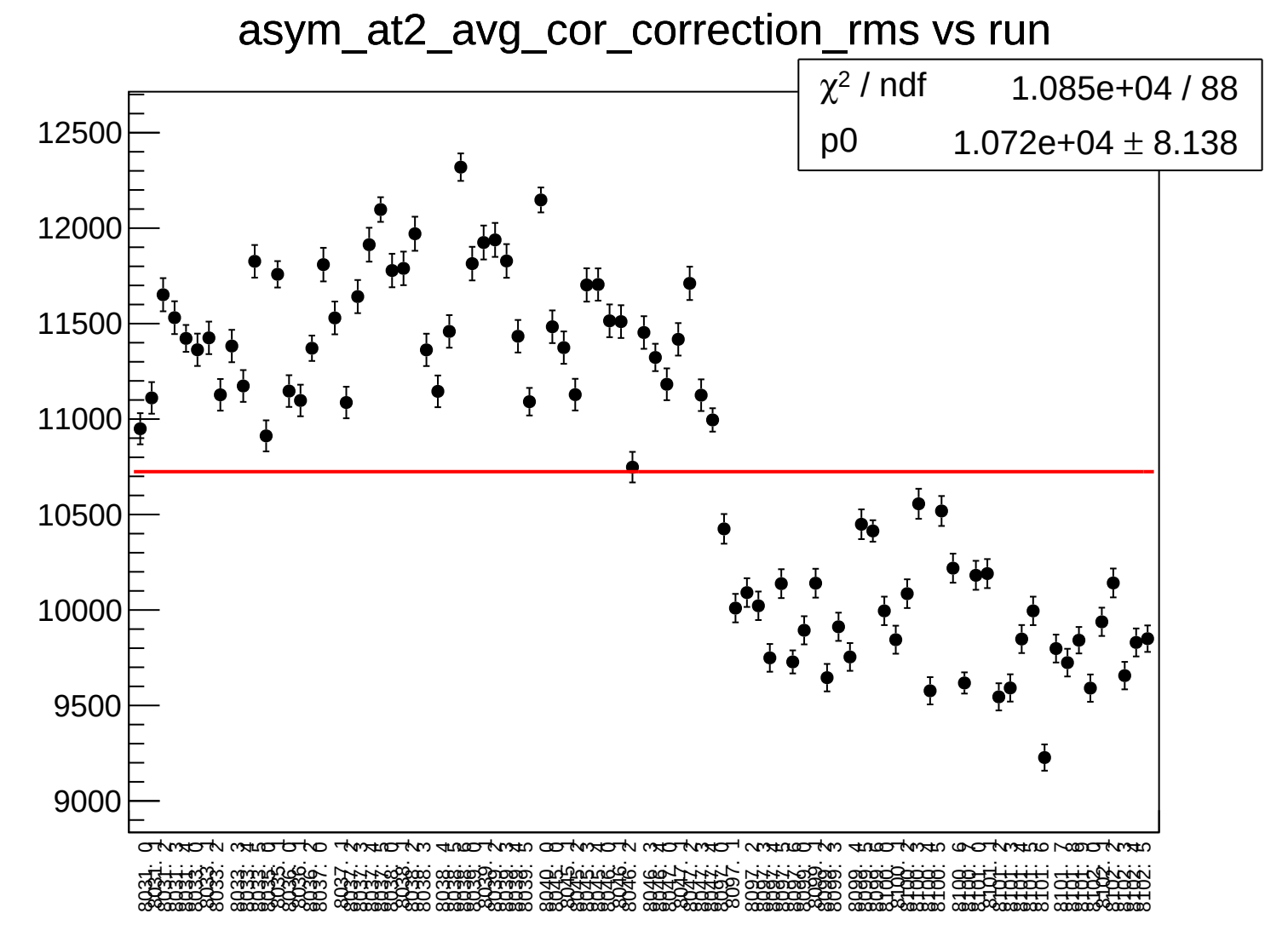

cor_asym_at2_avg_mean vs run
χ² / ndf 91.55 / 88
p0 2307 ± 1841
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −1011
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

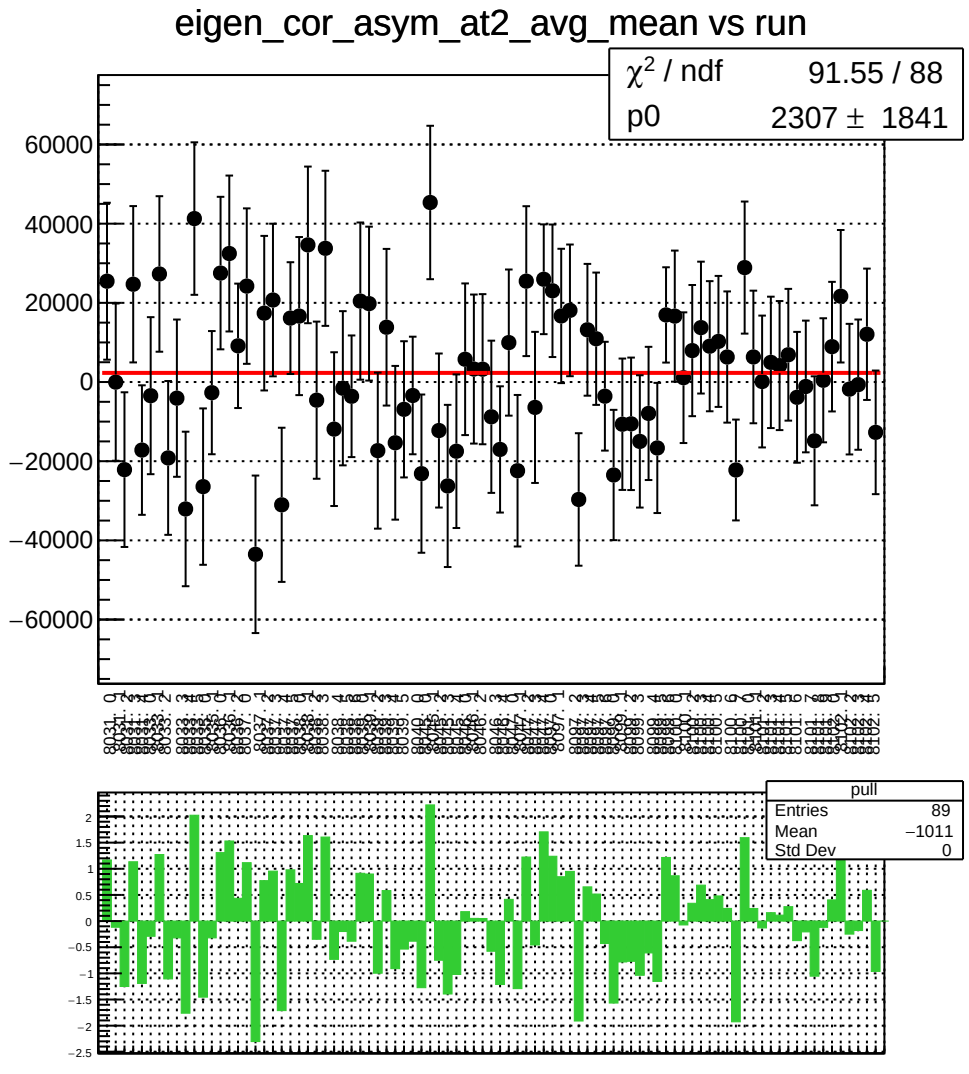

pull1D
Entries 89
Mean 0.0007078
Std Dev 1.014
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

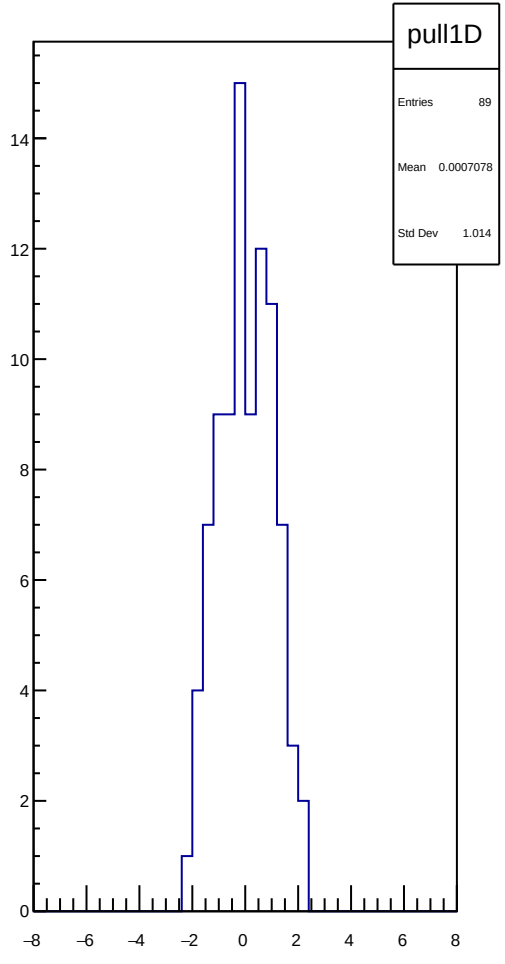

cor_asym_at2_avg_rms vs run
χ² / ndf 1.224e+04 / 88
p0 1715 ± 1.302
2000
1900
1800
1700
1600
1500

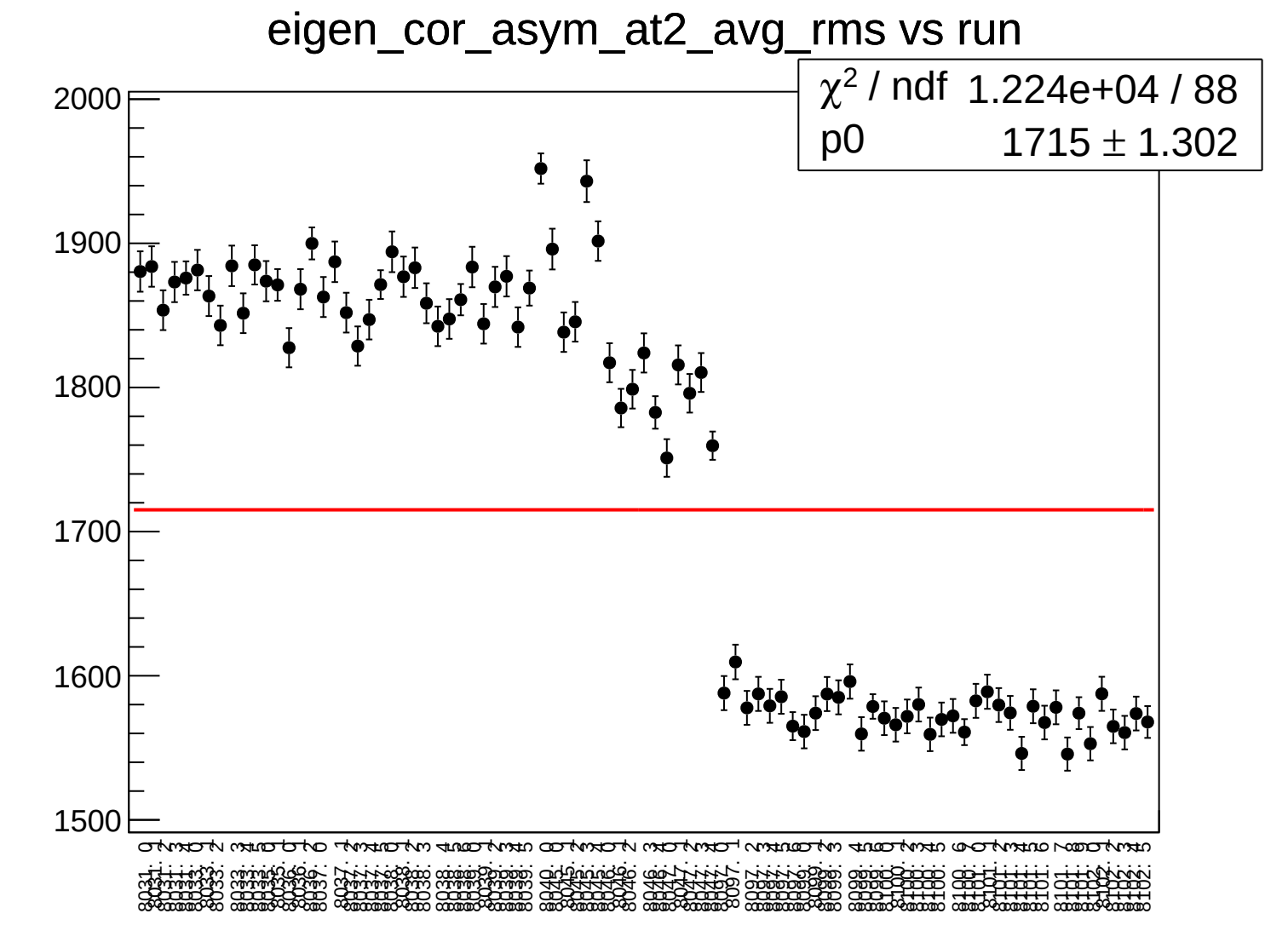

asym_at2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 96.78 / 88
p0 5184 ± 1.151e+04
600
400
200
0
−200
−400
pull
Entries 89
Mean −193.6
Std Dev 0
3
2
1
0
−1
−2

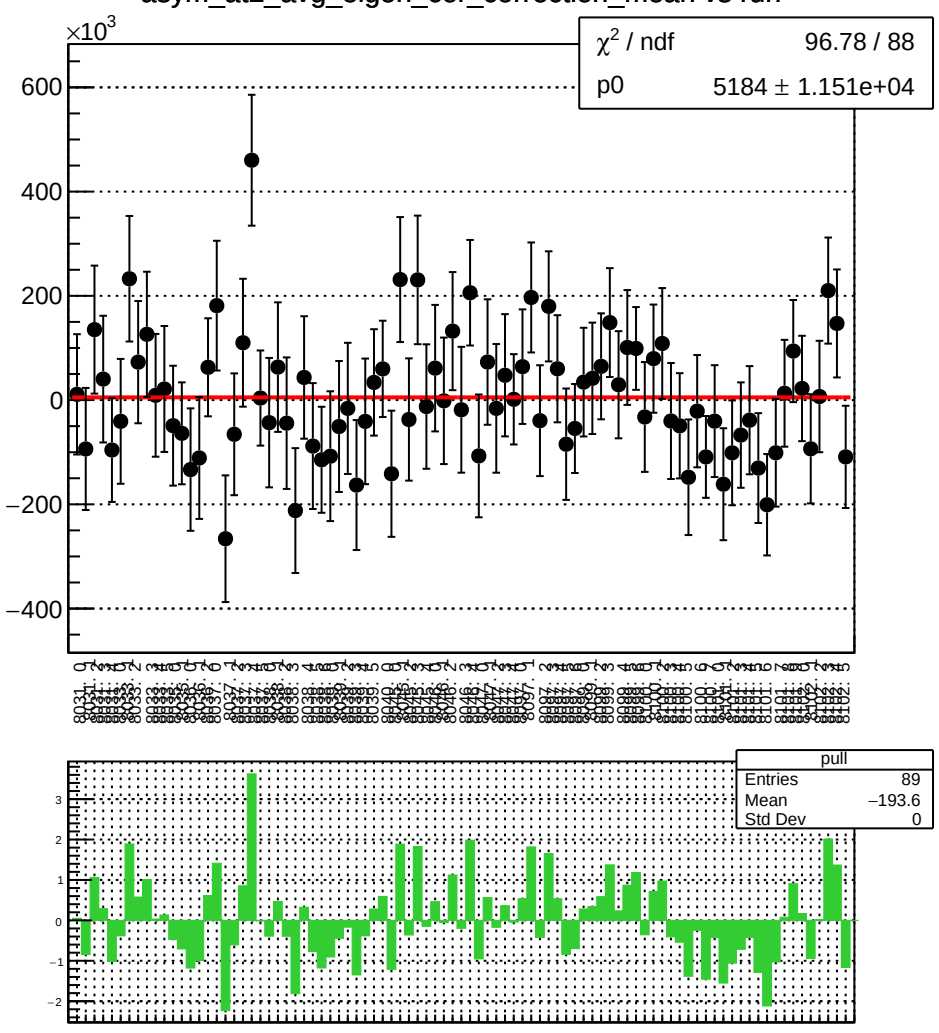

pull1D
Entries 89
Mean 0.00714
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

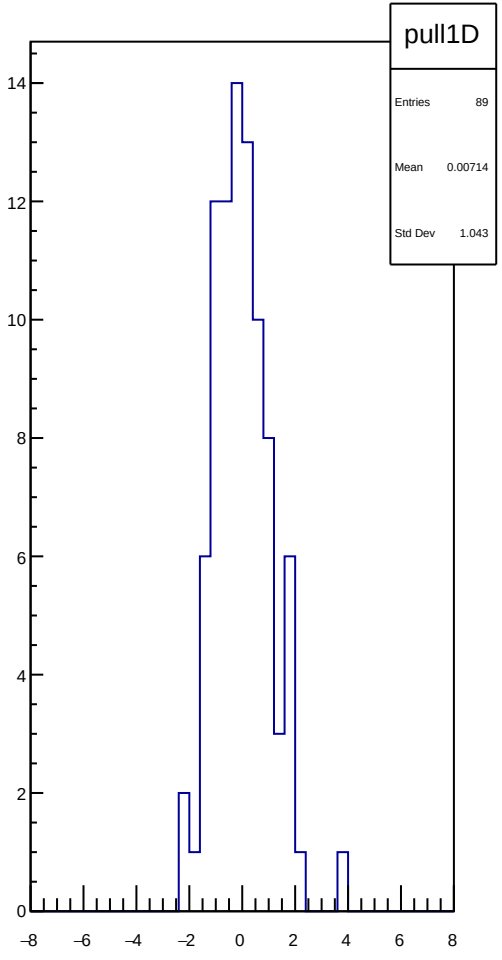

asym_at2_avg_cor_correction_rms vs run
χ² / ndf 1.085e+04 / 88
p0 1.072e+04 ± 8.138
12500
12000
11500
11000
10500
10000
9500
9000

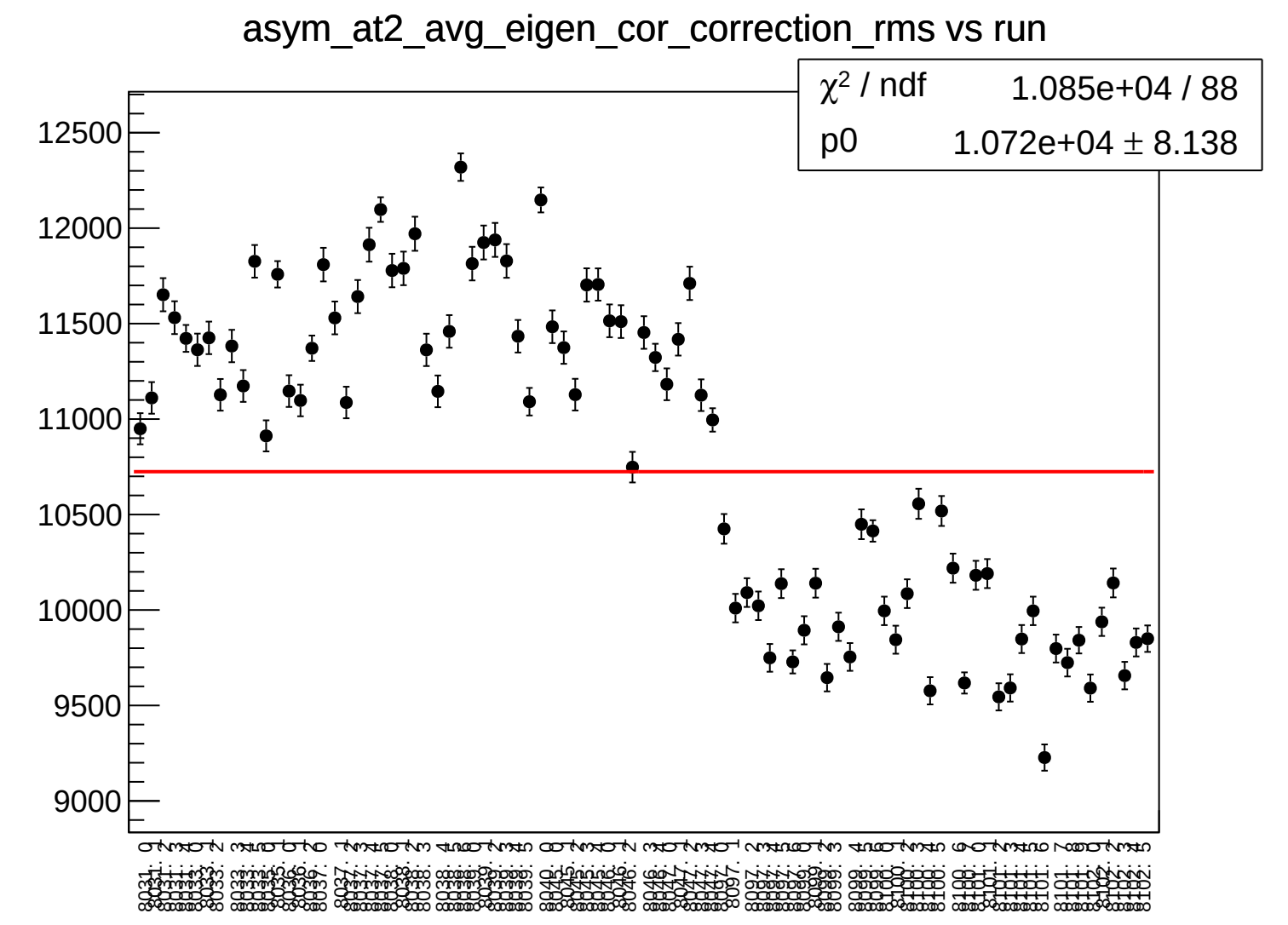

eigen_cor_asym_at2_avg_mean vs run
χ² / ndf 91.55 / 88
p0 2307 ± 1841
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −1011
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

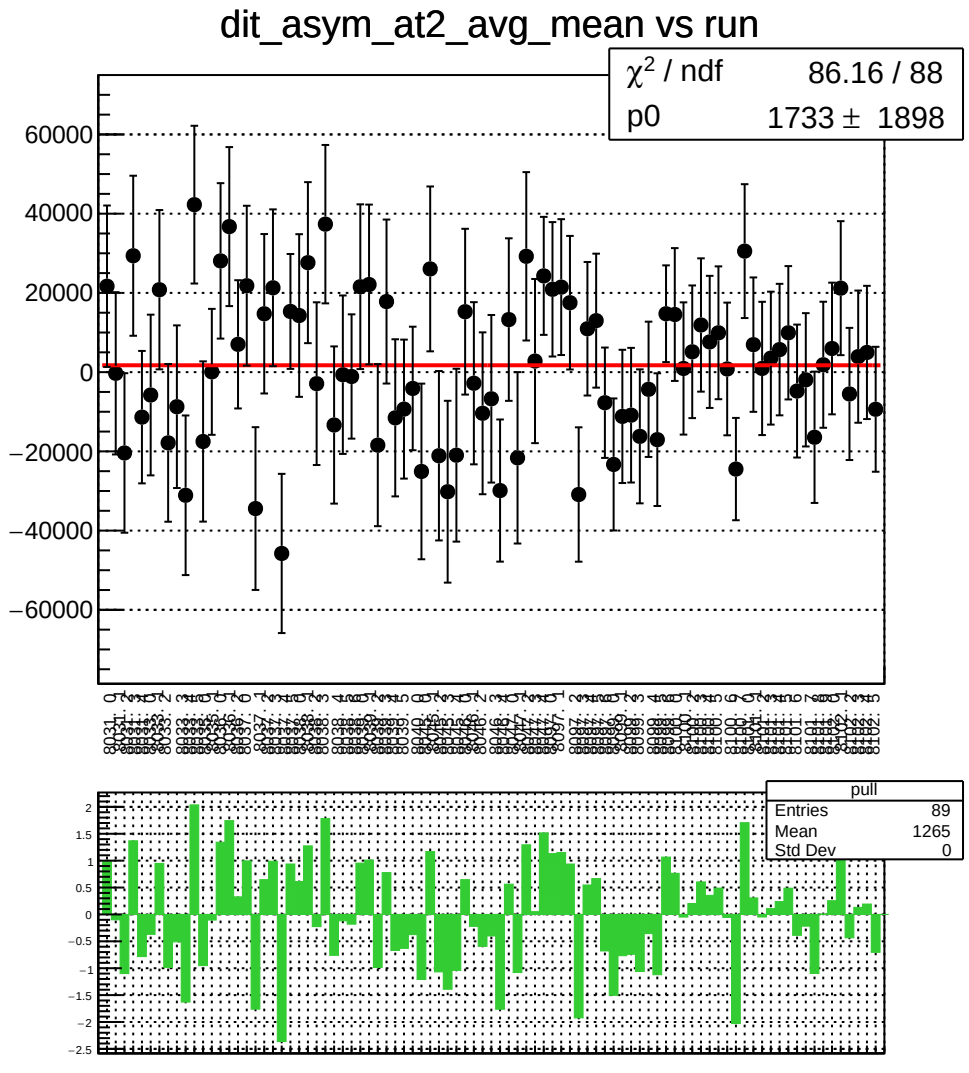

pull1D
Entries 89
Mean 0.0007078
Std Dev 1.014
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

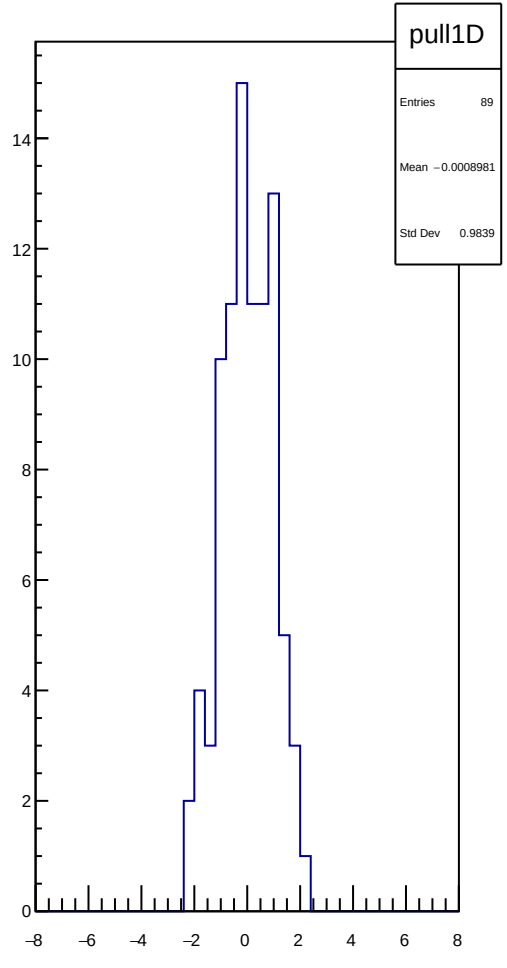

eigen_cor_asym_at2_avg_rms vs run
χ² / ndf 1.224e+04 / 88
p0 1715 ± 1.302
2000
1900
1800
1700
1600
1500

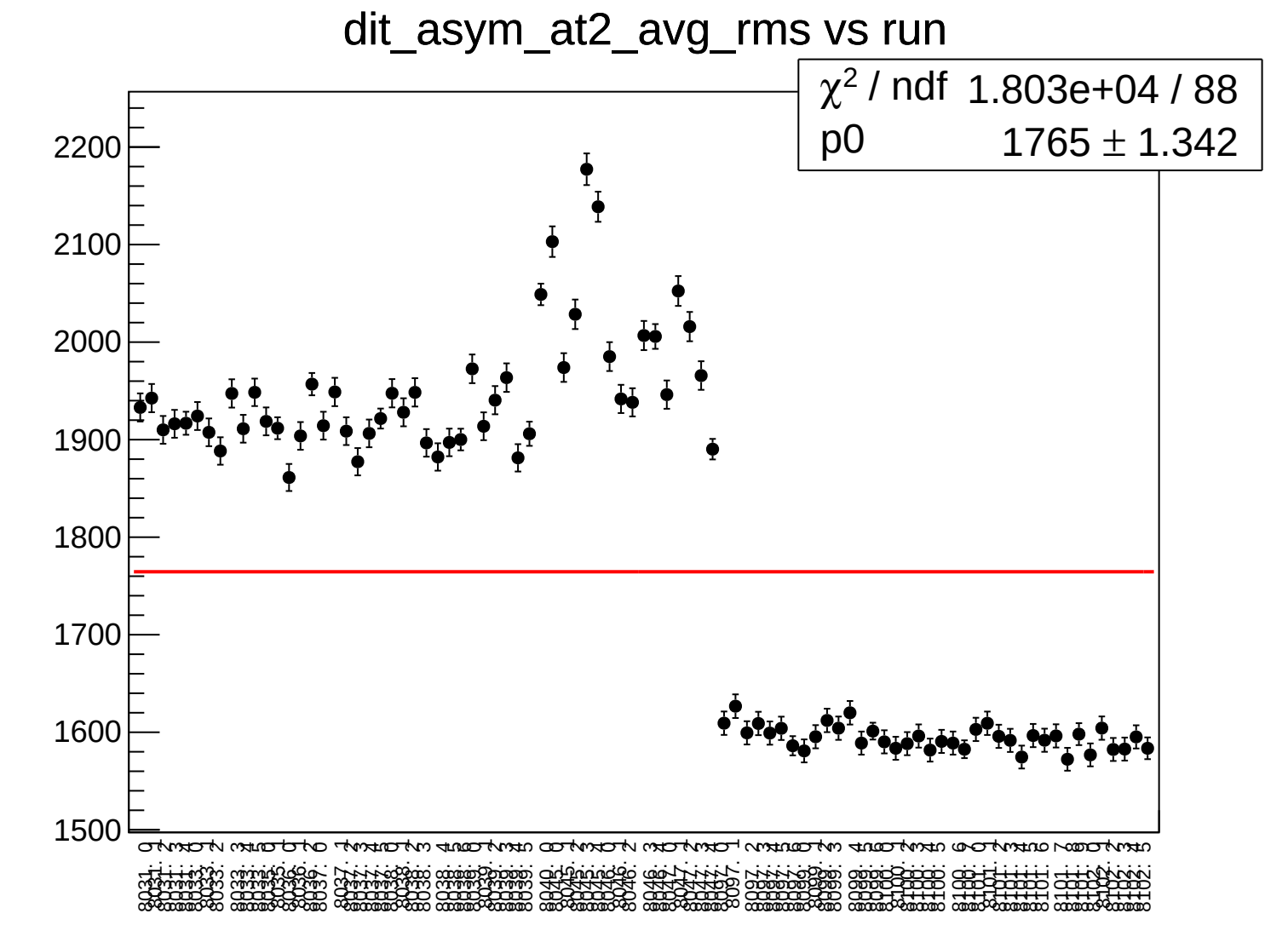

asym_at2_avg_eigen_cor_correction_mean vs run
×10^3
600
400
200
0
−200
−400
χ² / ndf 96.78 / 88
p0 5184 ± 1.151e+04
pull
Entries 89
Mean −193.6
Std Dev 0
3
2
1
0
−1
−2

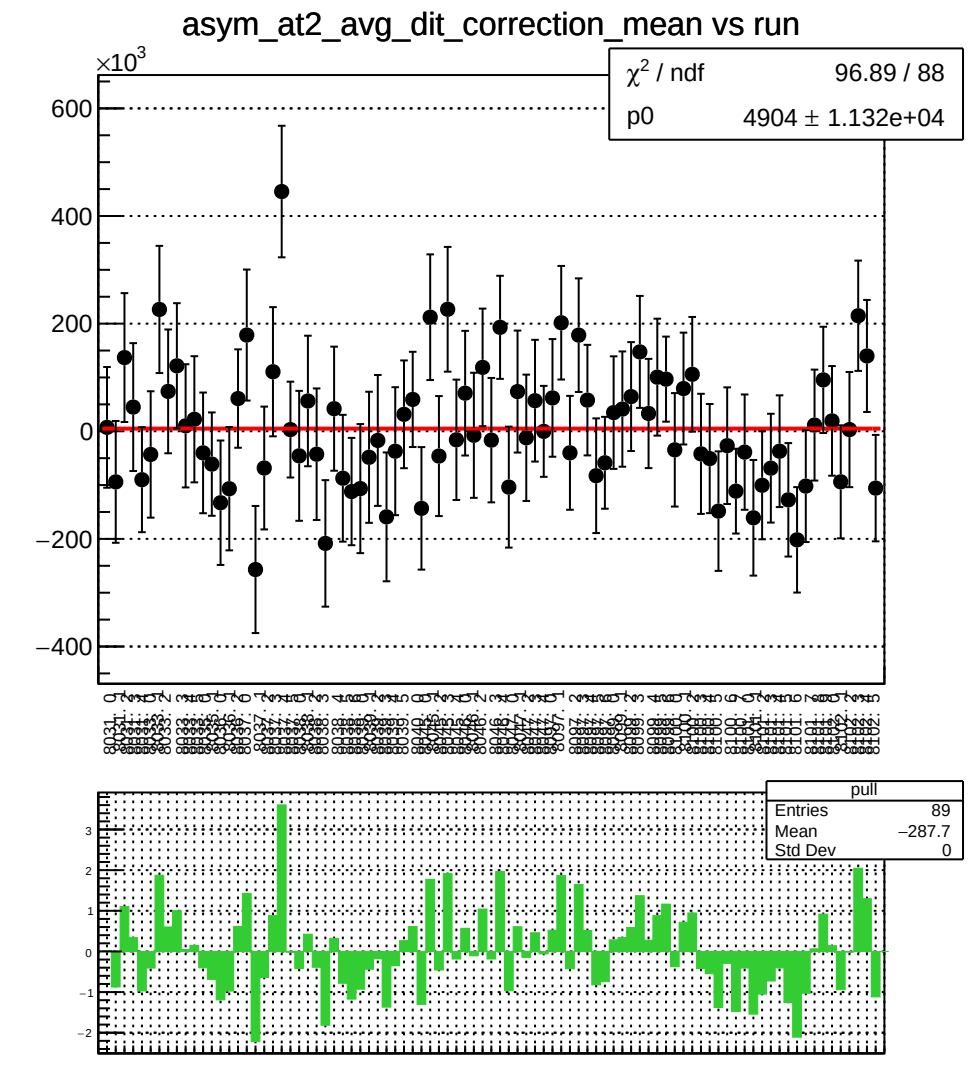

pull1D
Entries 89
Mean 0.00714
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

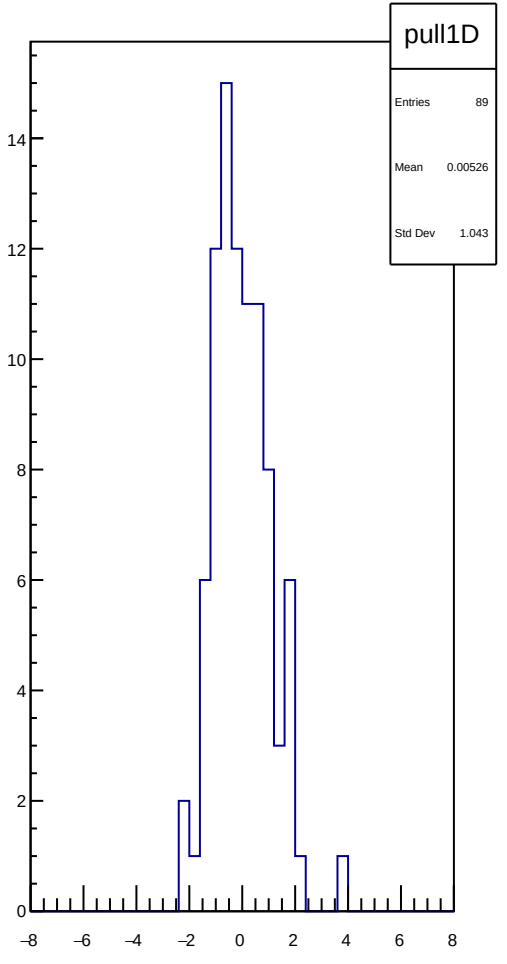

asym_at2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.085e+04 / 88
p0 1.072e+04 ± 8.138
12500
12000
11500
11000
10500
10000
9500
9000

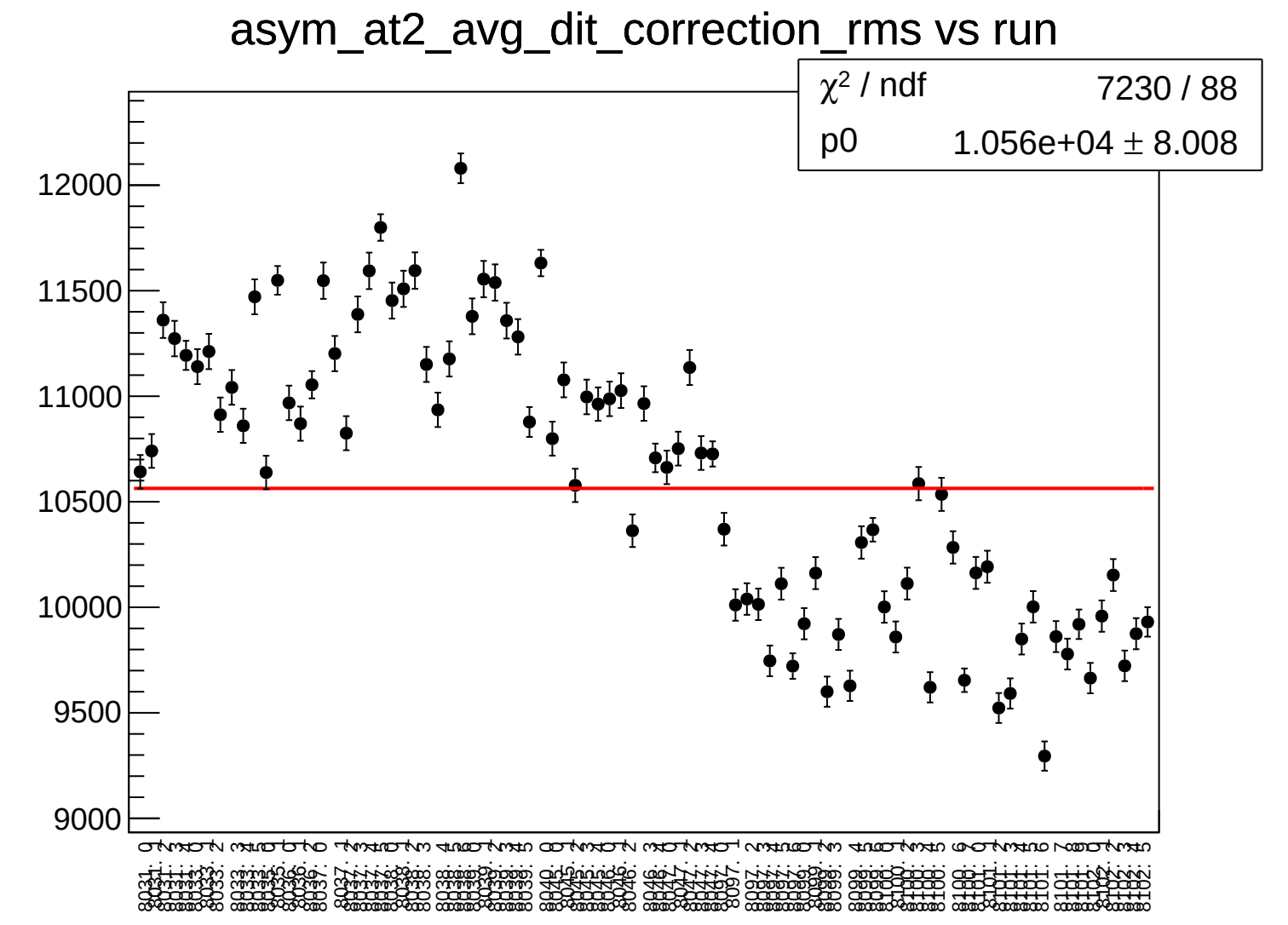

dit_asym_at2_avg_mean vs run
$\chi^2$ / ndf 86.16 / 88
p0 1733 ± 1898
pull
Entries 89
Mean 1265
Std Dev 0

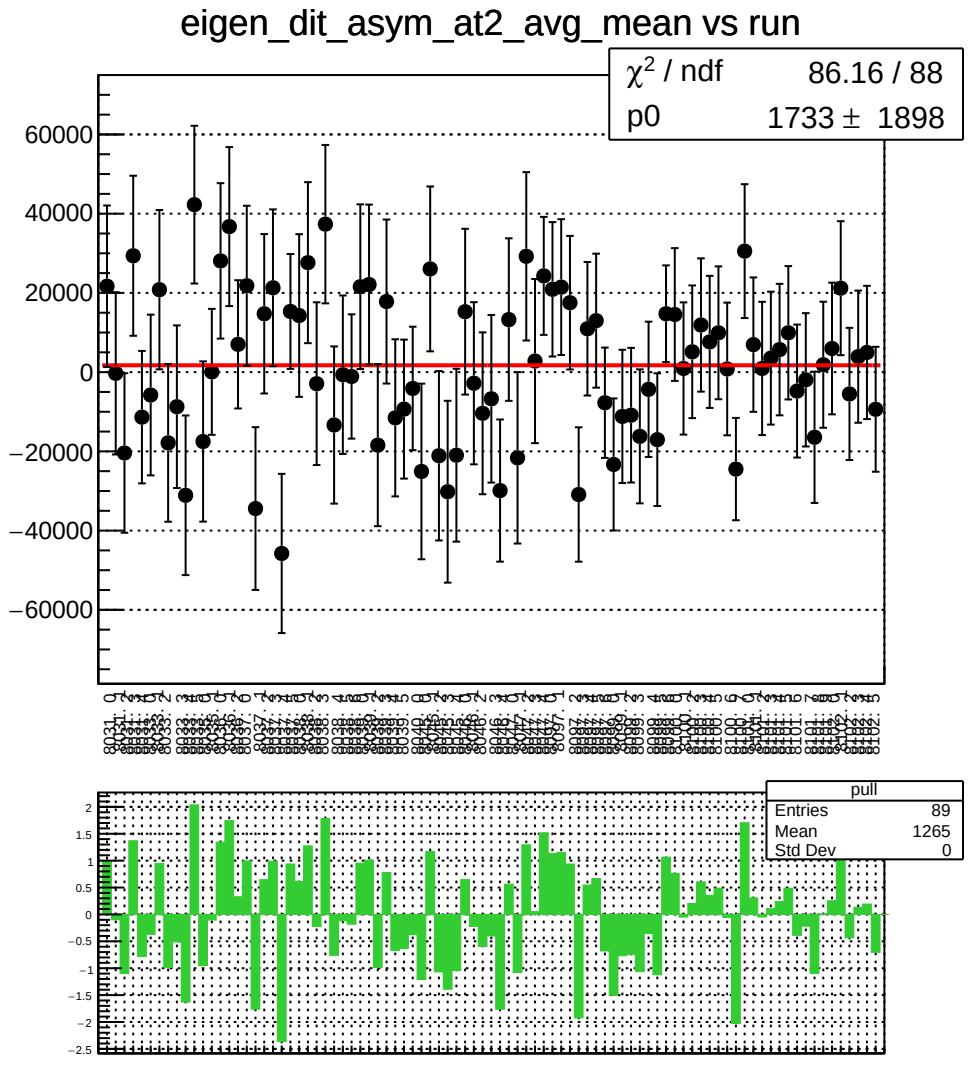

pull1D
Entries 89
Mean −0.0008981
Std Dev 0.9839

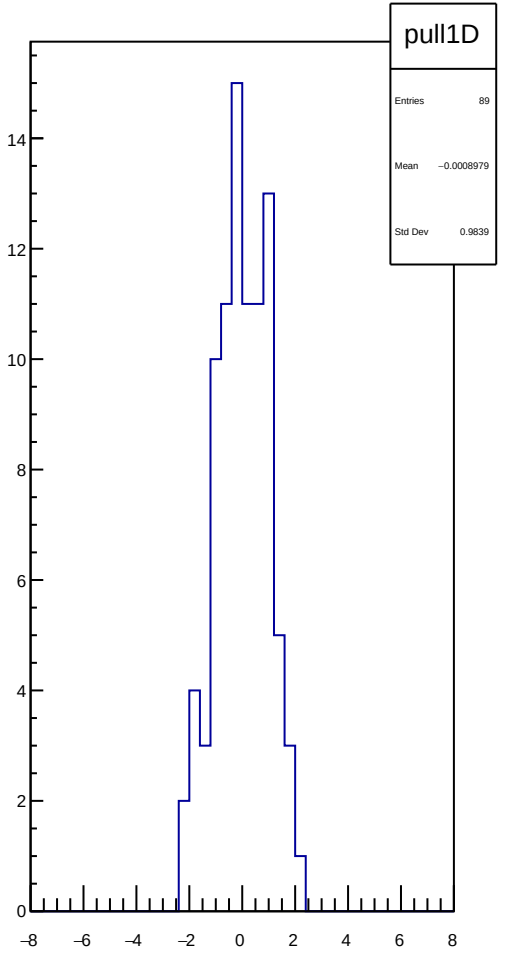

dit_asym_at2_avg_rms vs run
χ² / ndf 1.803e+04 / 88
p0 1765 ± 1.342
2200
2100
2000
1900
1800
1700
1600
1500

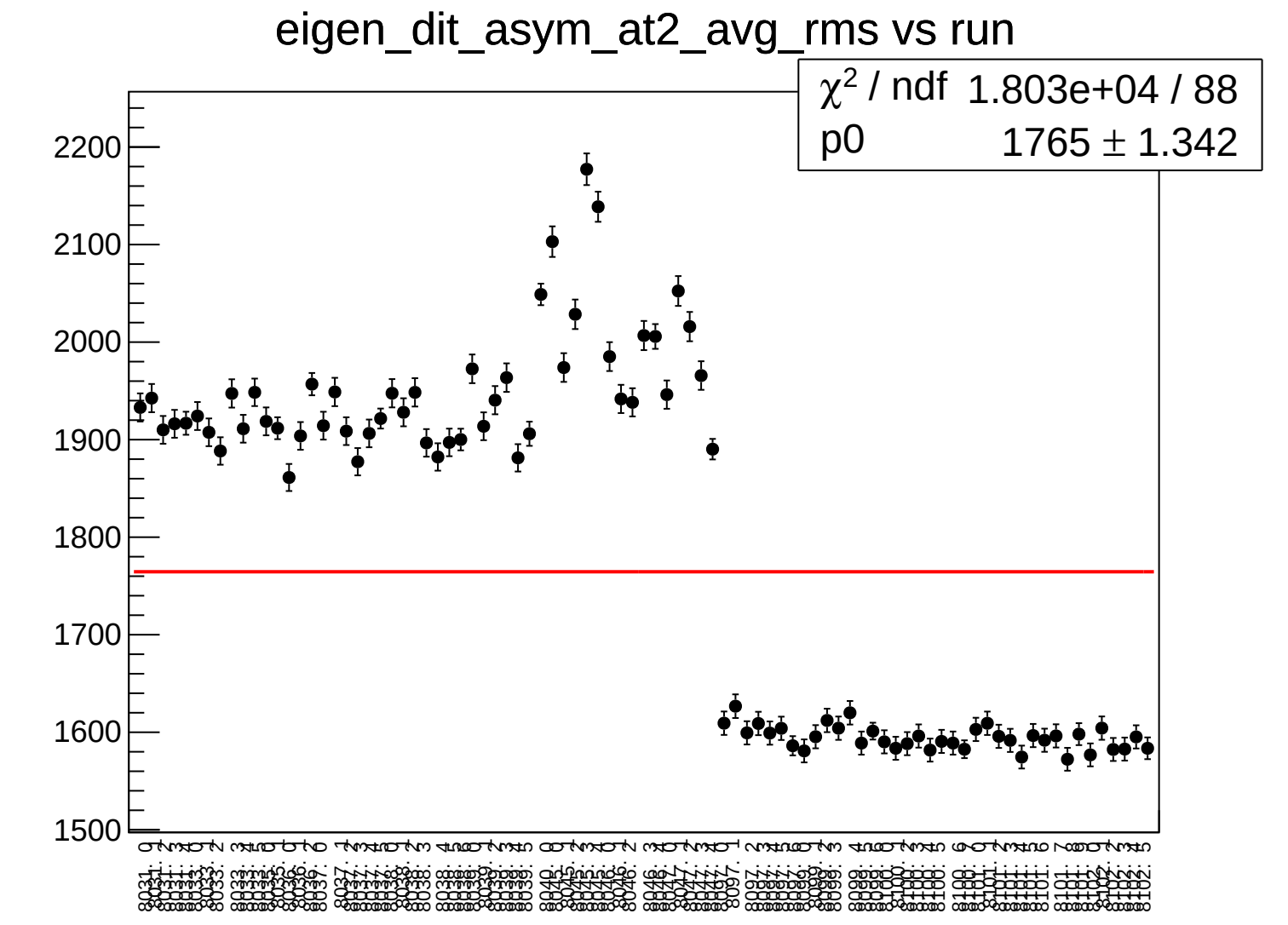

asym_at2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 96.89 / 88
p0 4904 ± 1.132e+04
600
400
200
0
−200
−400
pull
Entries 89
Mean −287.7
Std Dev 0
3
2
1
0
−1
−2

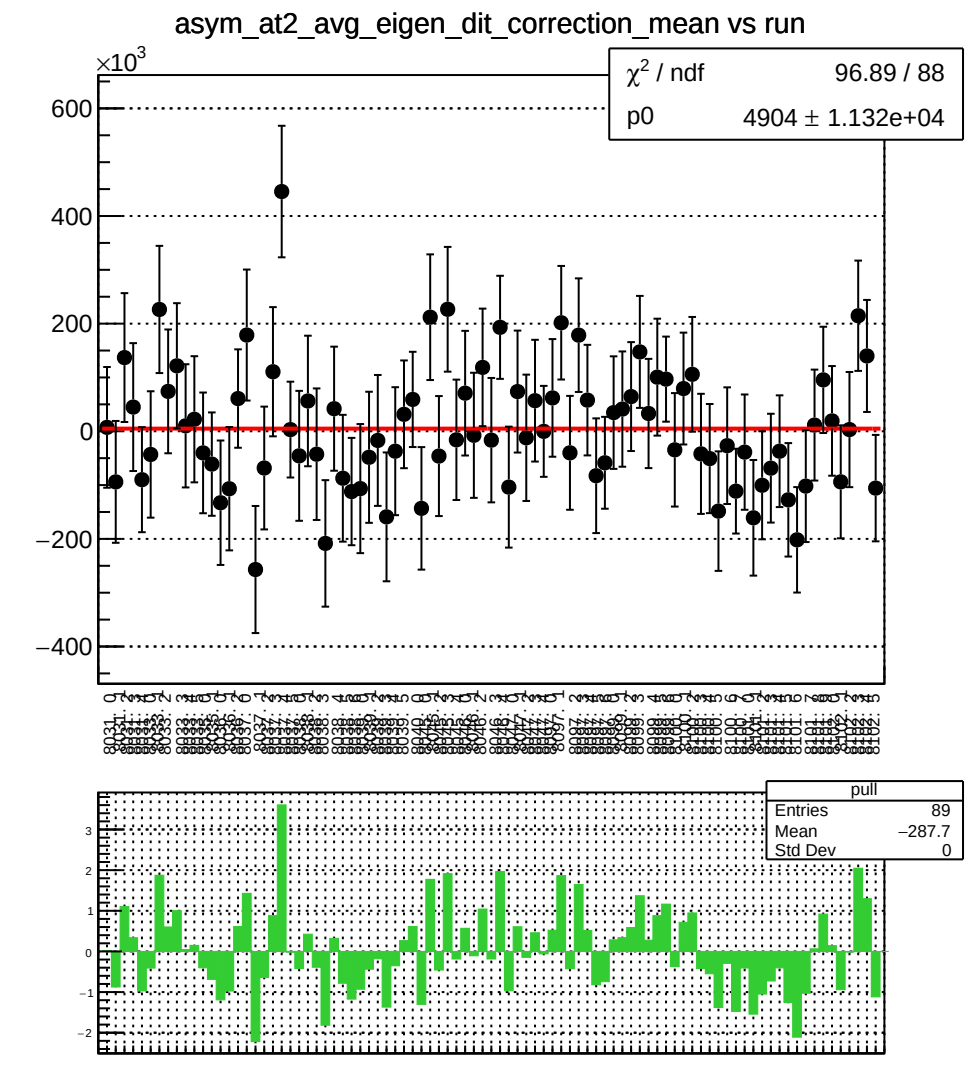

pull1D
Entries 89
Mean 0.00526
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

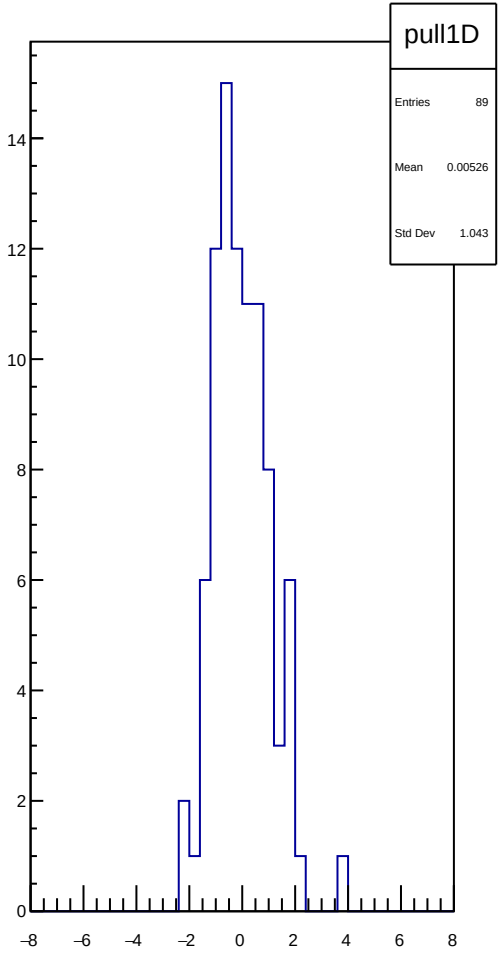

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 7230 / 88
p0 1.056e+04 ± 8.008
12000
11500
11000
10500
10000
9500
9000

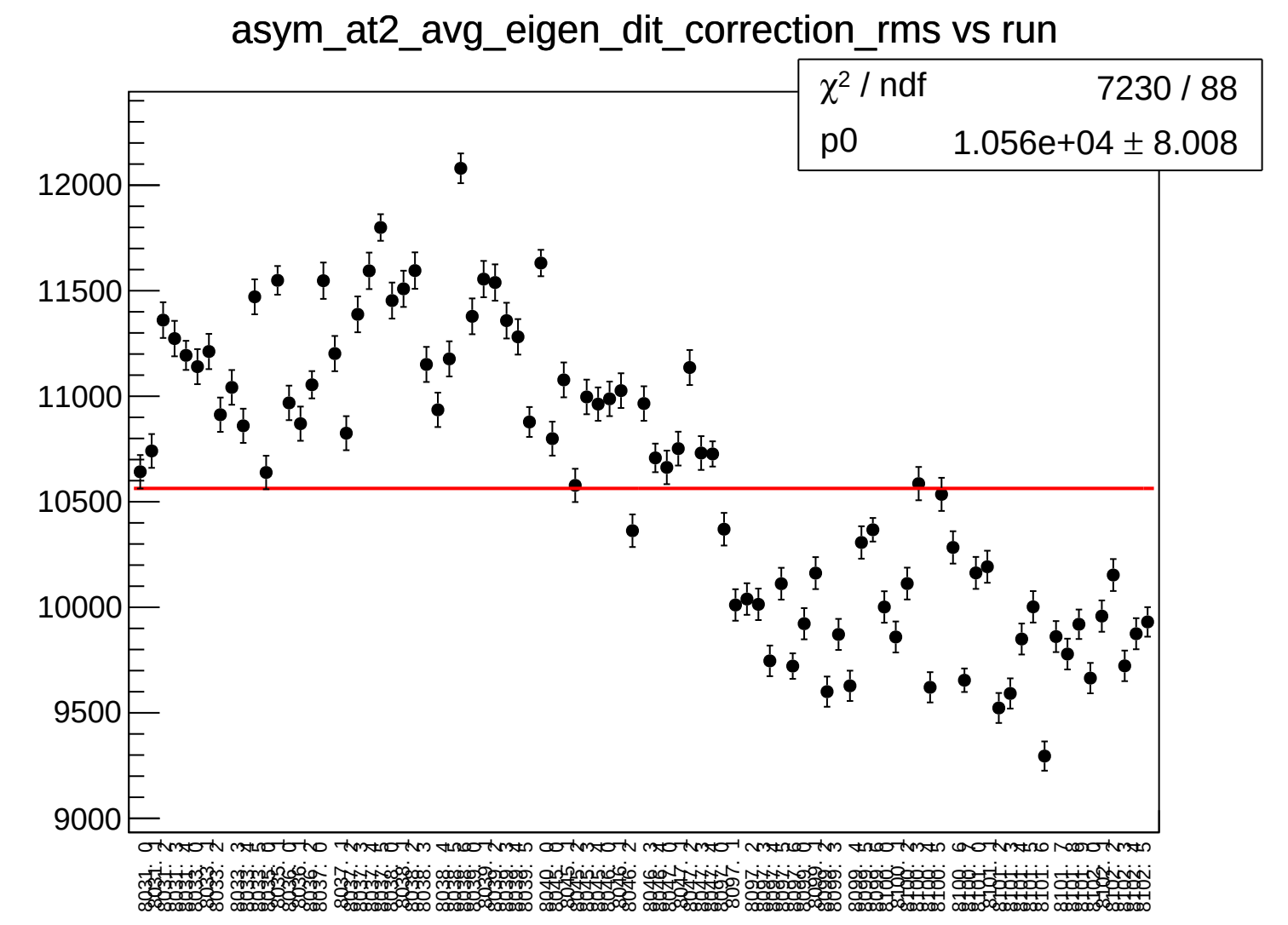

eigen_dit_asym_at2_avg_mean vs run
χ² / ndf 86.16 / 88
p0 1733 ± 1898
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 1265
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

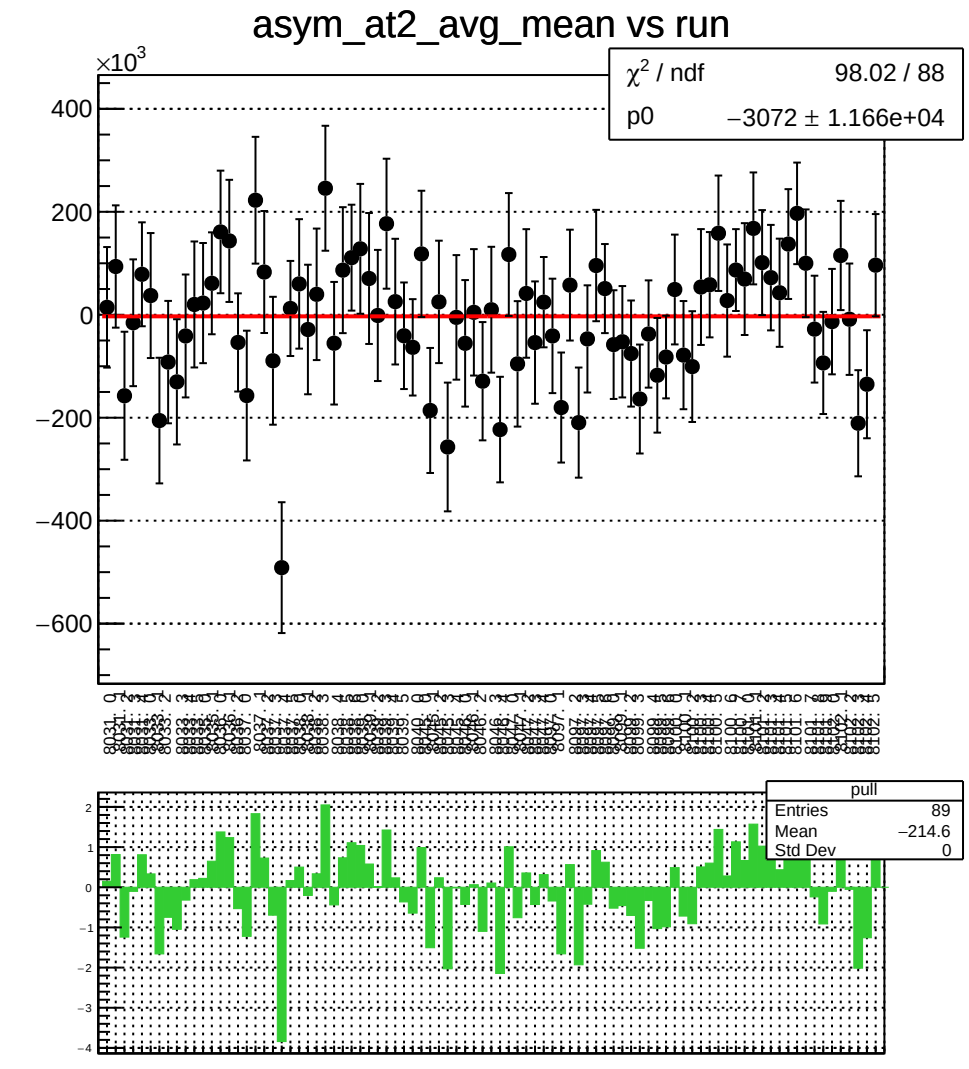

pull1D
Entries 89
Mean −0.0008979
Std Dev 0.9839
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

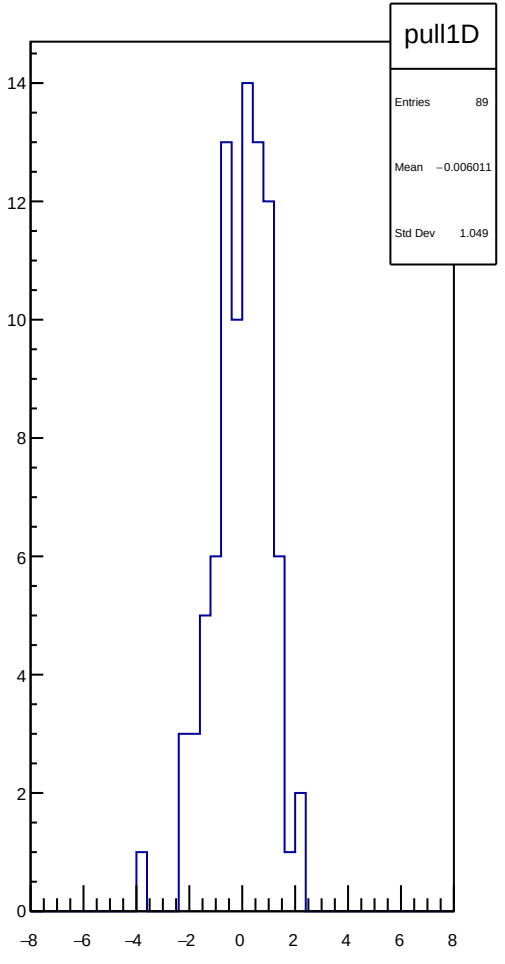

eigen_dit_asym_at2_avg_rms vs run
χ² / ndf 1.803e+04 / 88
p0 1765 ± 1.342
2200
2100
2000
1900
1800
1700
1600
1500

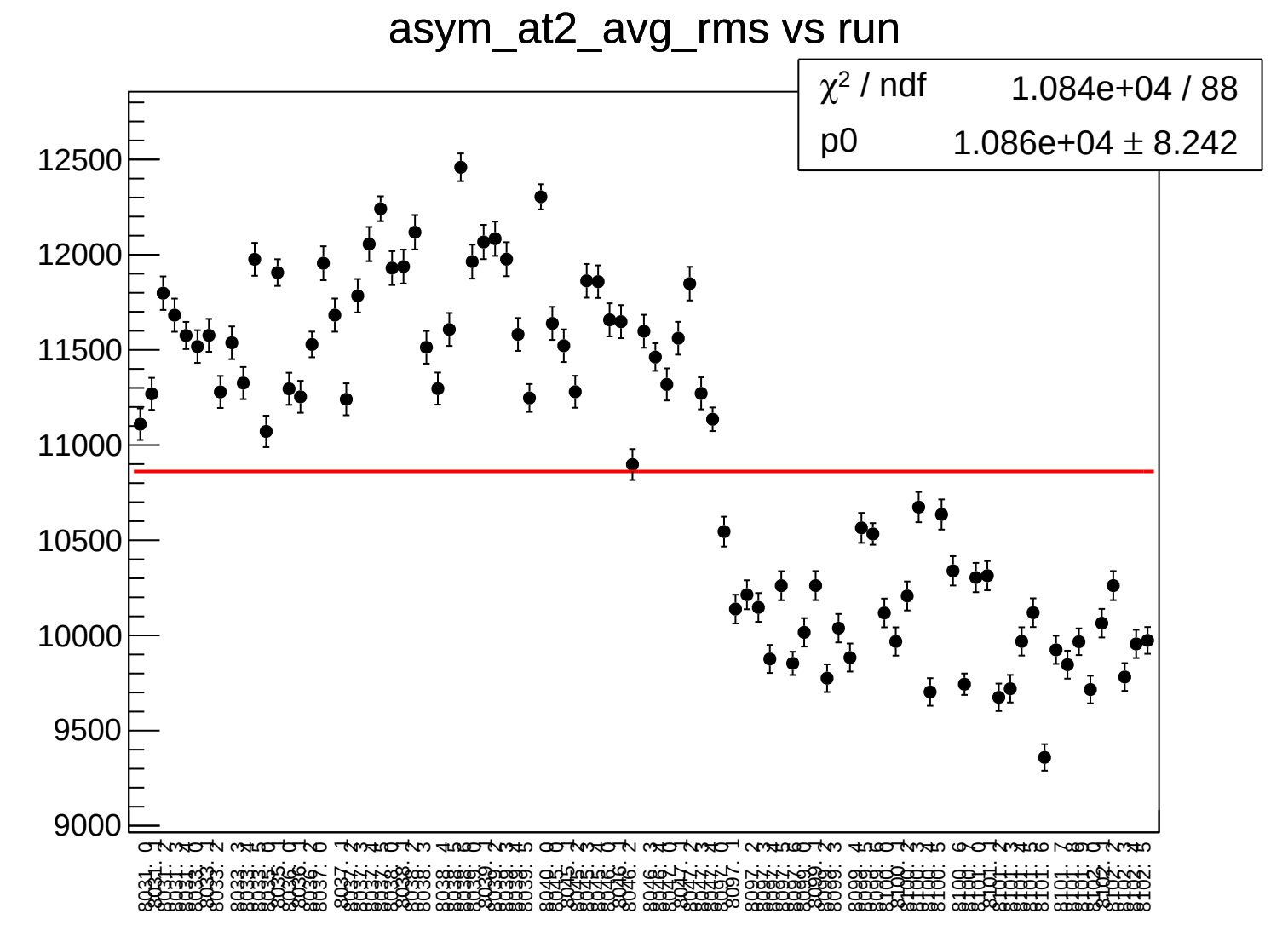

asym_at2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.89 / 88
p0 4904 ± 1.132e+04
600
400
200
0
−200
−400
pull
Entries 89
Mean −287.7
Std Dev 0
3
2
1
0
−1
−2

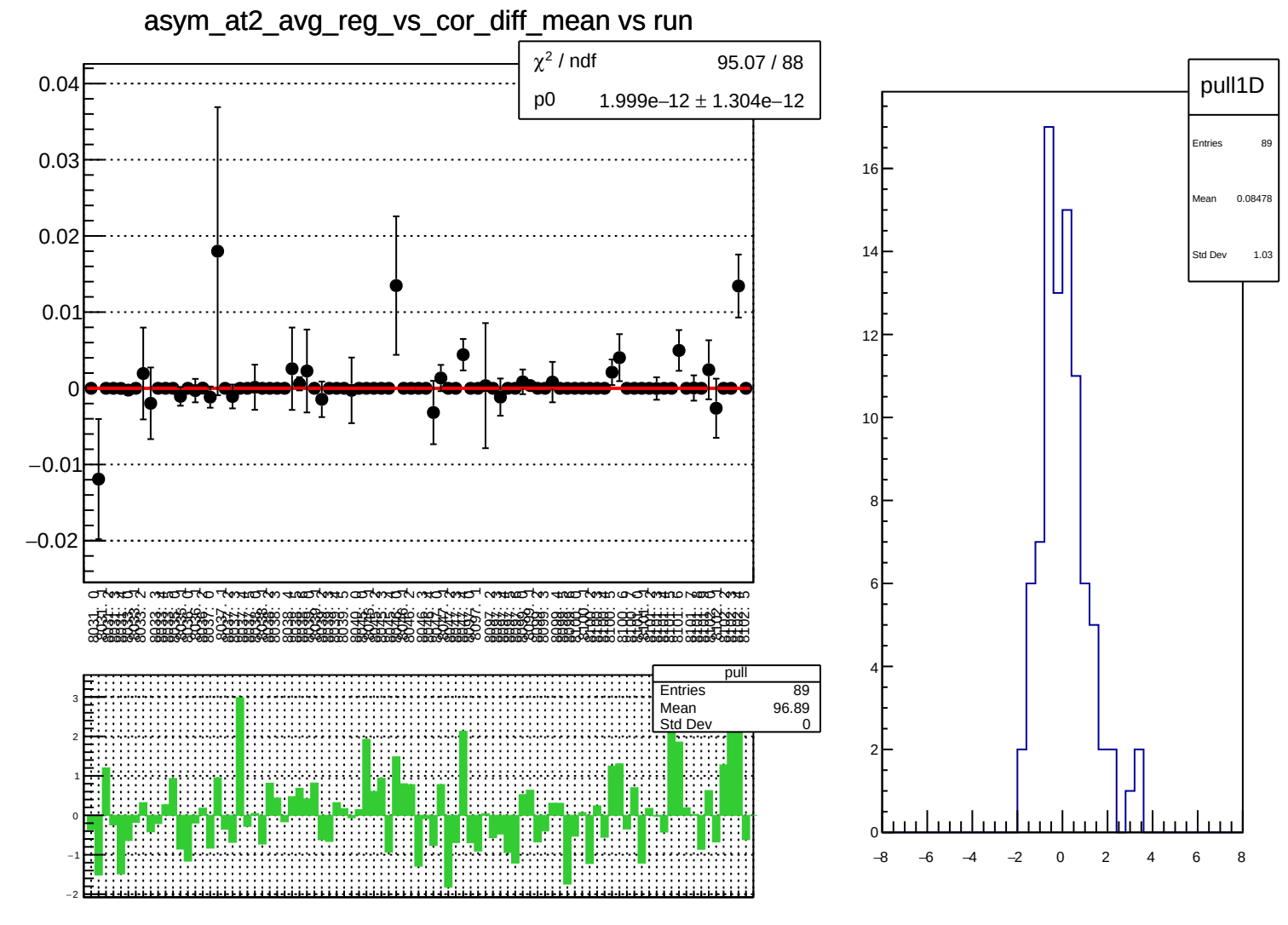

pull1D
Entries 89
Mean 0.00526
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

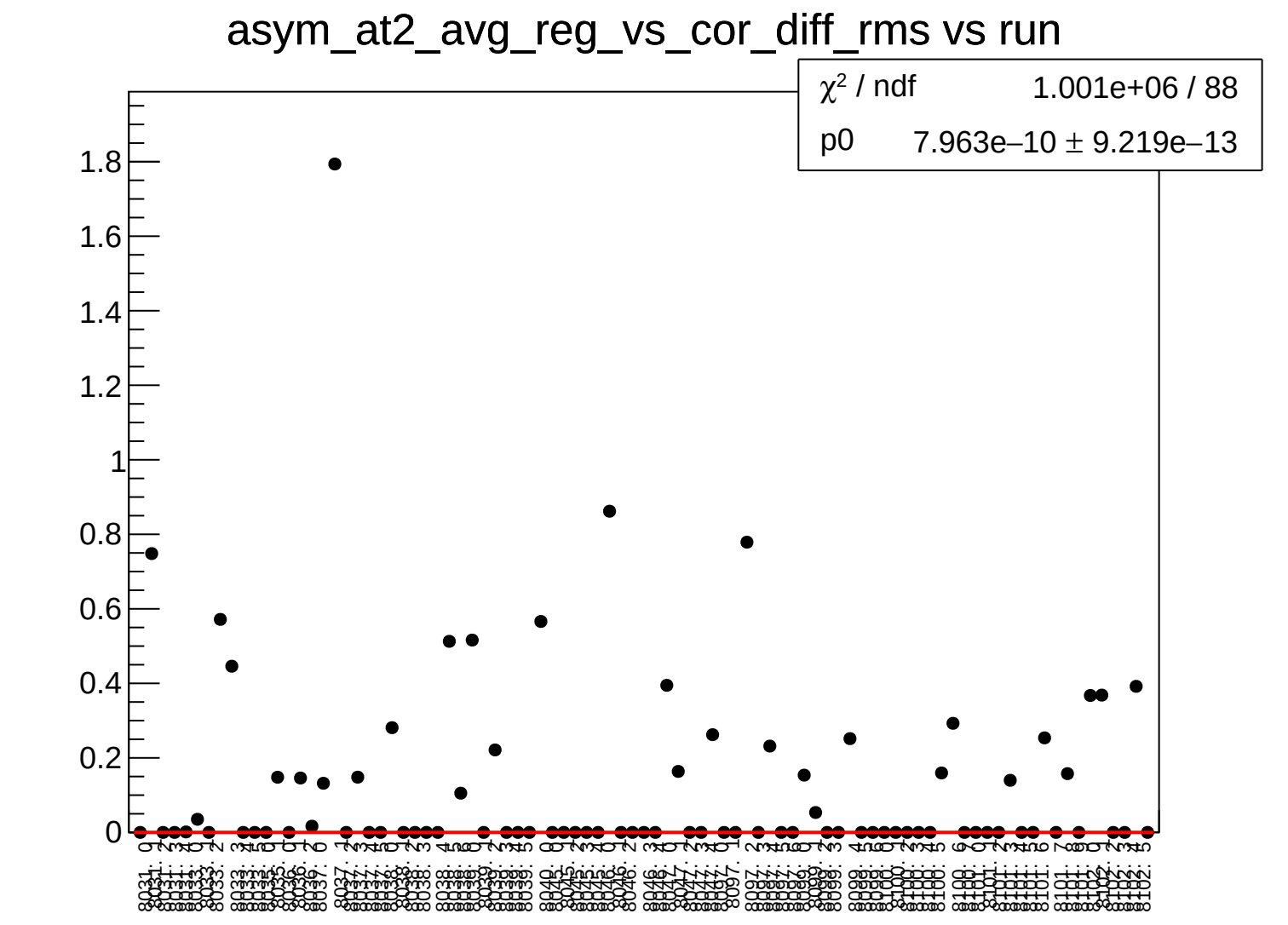

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 7230 / 88
p0 1.056e+04 ± 8.008
12000
11500
11000
10500
10000
9500
9000

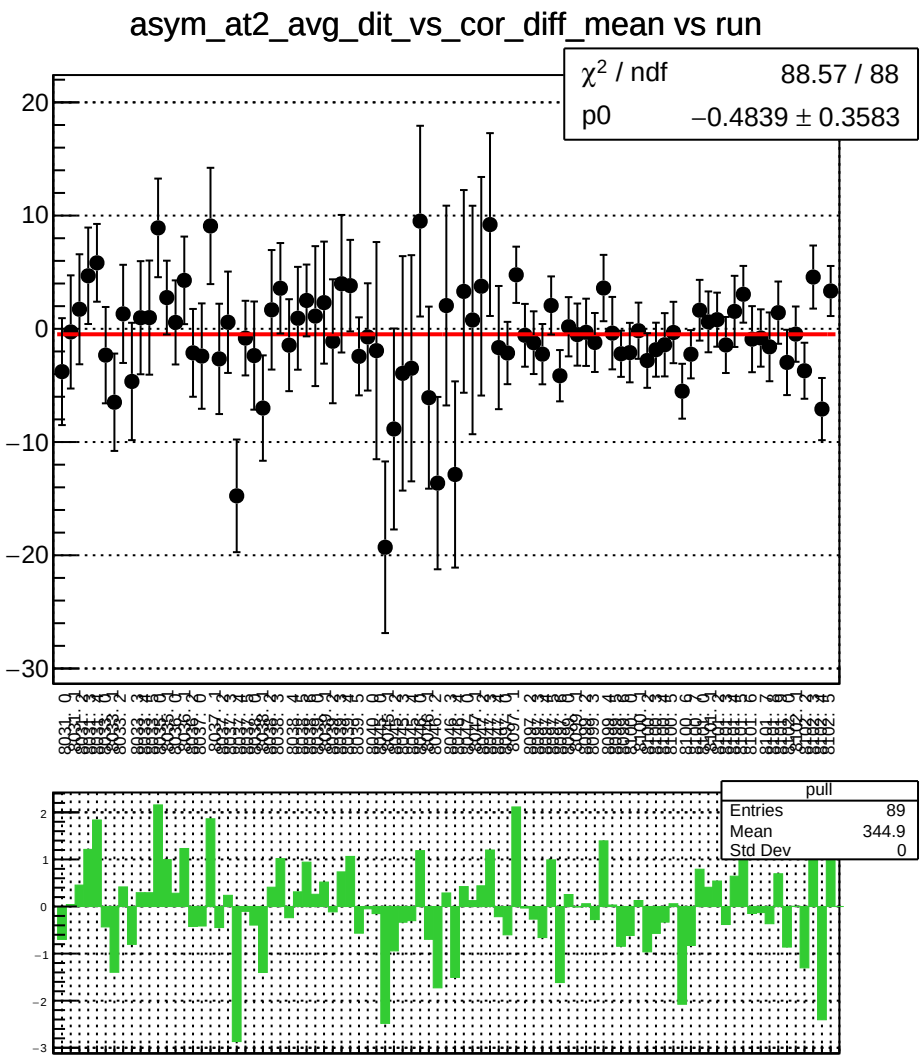

asym_at2_avg_mean vs run
×10^3
χ² / ndf 98.02 / 88
p0 −3072 ± 1.166e+04
400
200
0
−200
−400
−600
pull
Entries 89
Mean −214.6
Std Dev 0
2
1
0
−1
−2
−3
−4

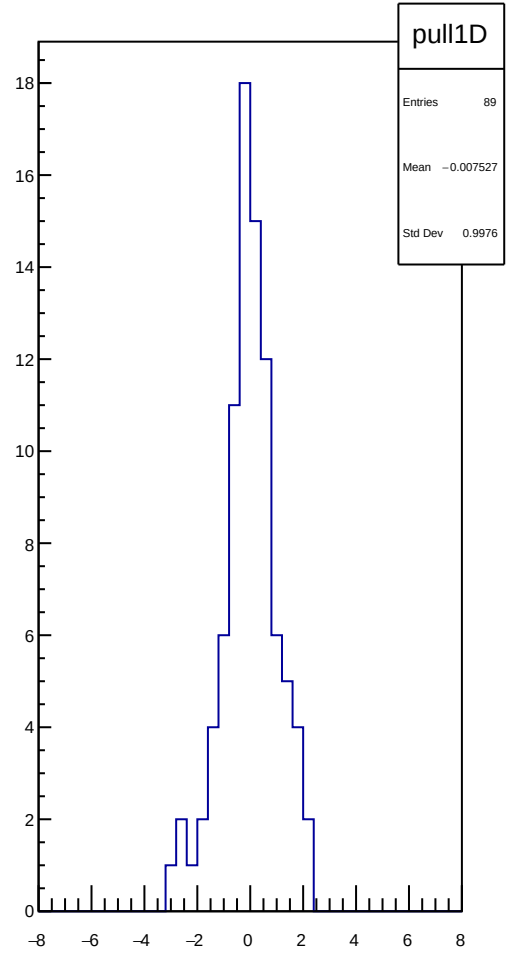

pull1D
Entries 89
Mean −0.006011
Std Dev 1.049
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

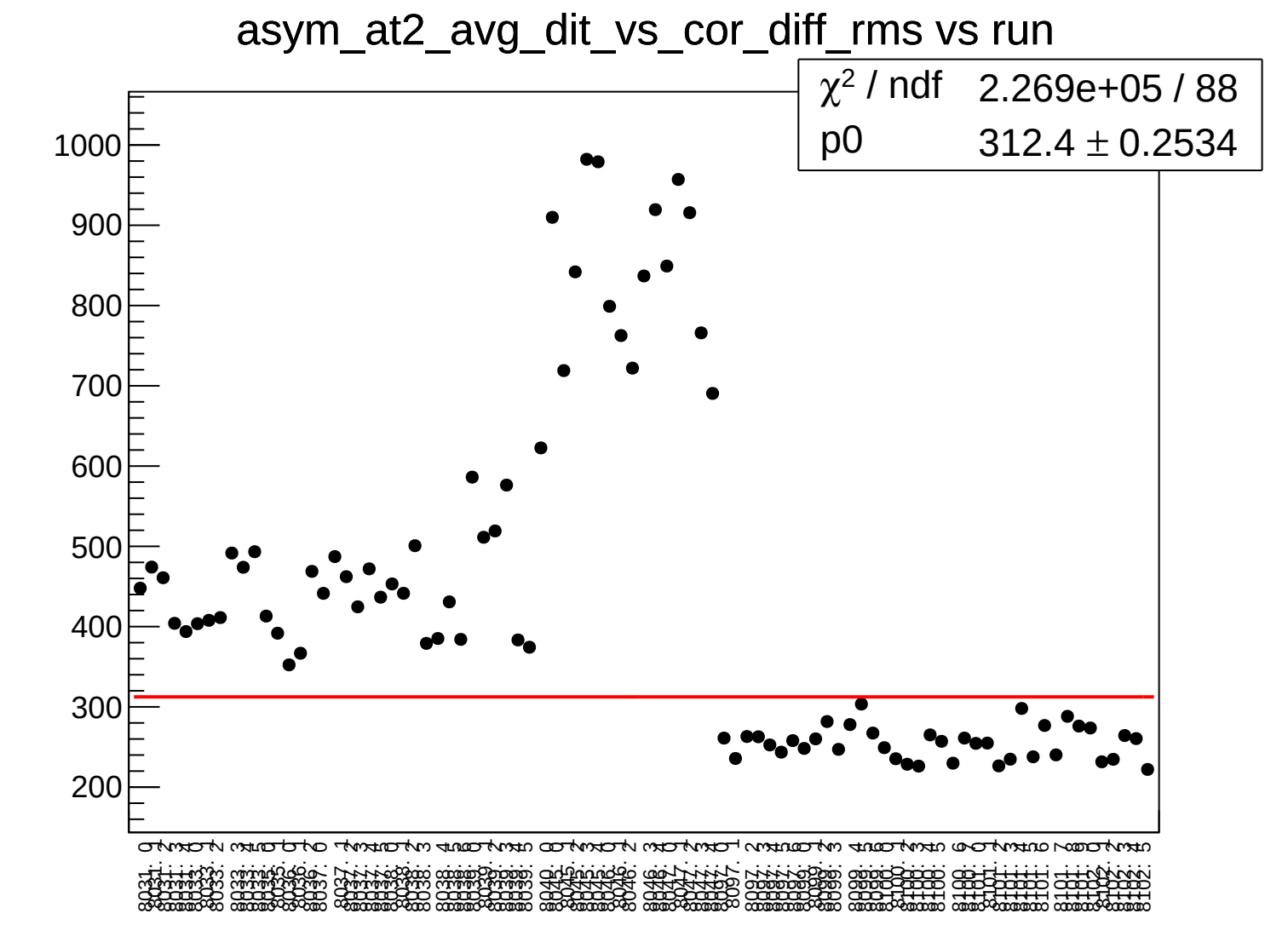

asym_at2_avg_rms vs run
χ² / ndf 1.084e+04 / 88
p0 1.086e+04 ± 8.242
12500
12000
11500
11000
10500
10000
9500
9000

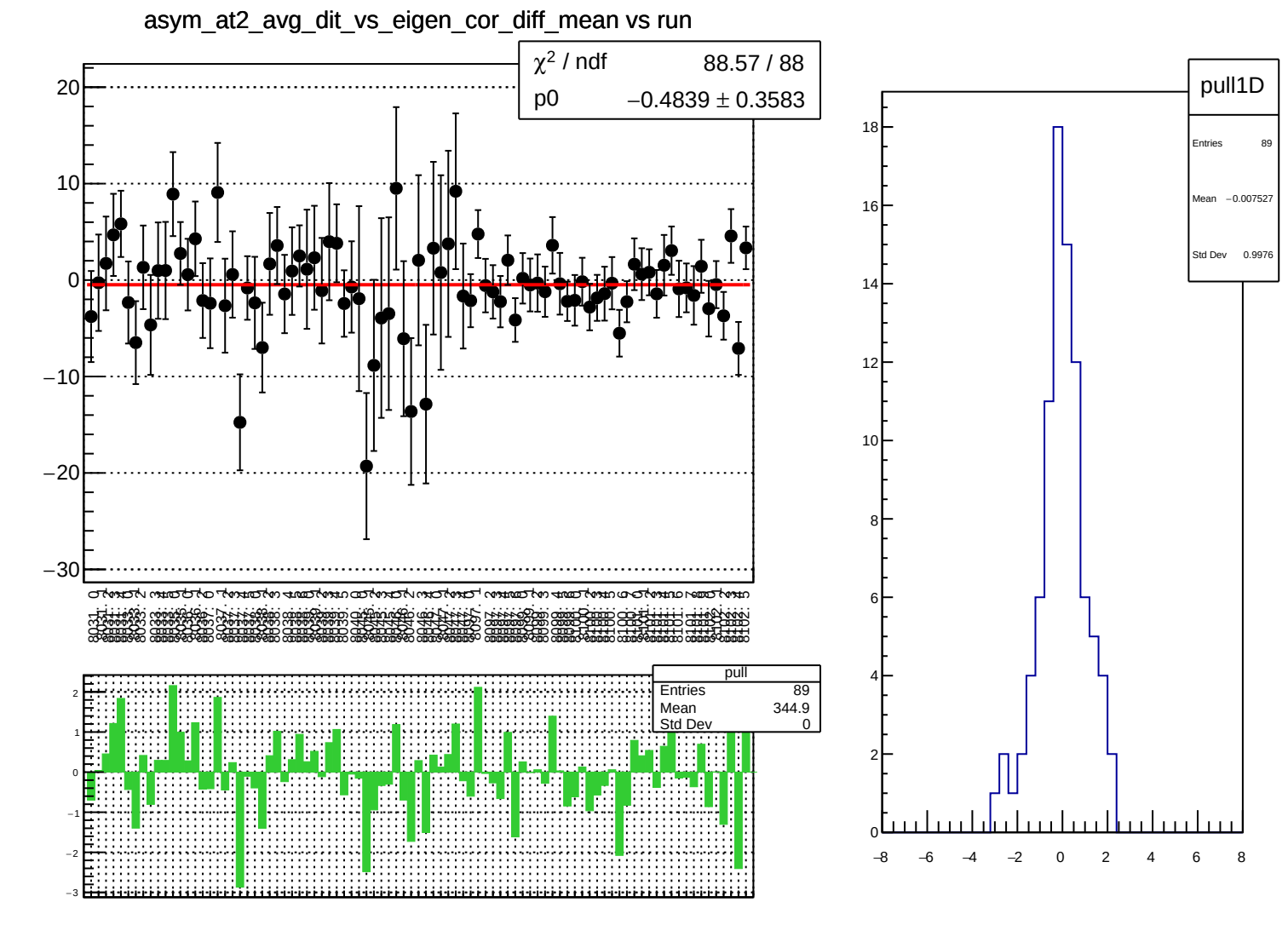

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 95.07 / 88
p0 1.999e−12 ± 1.304e−12
0.04
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 89
Mean 96.89
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.08478
Std Dev 1.03
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

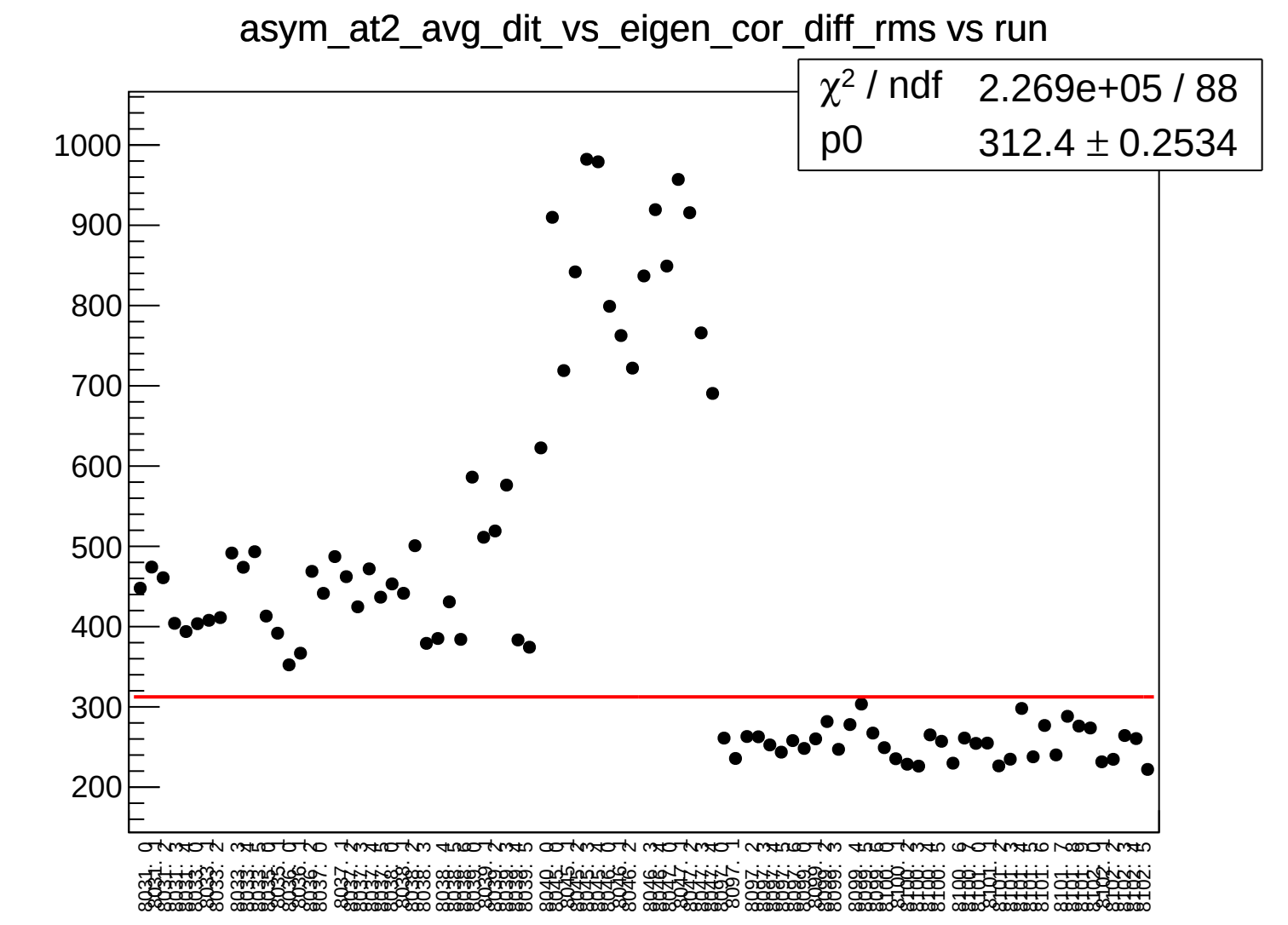

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.001e+06 / 88
p0 7.963e−10 ± 9.219e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

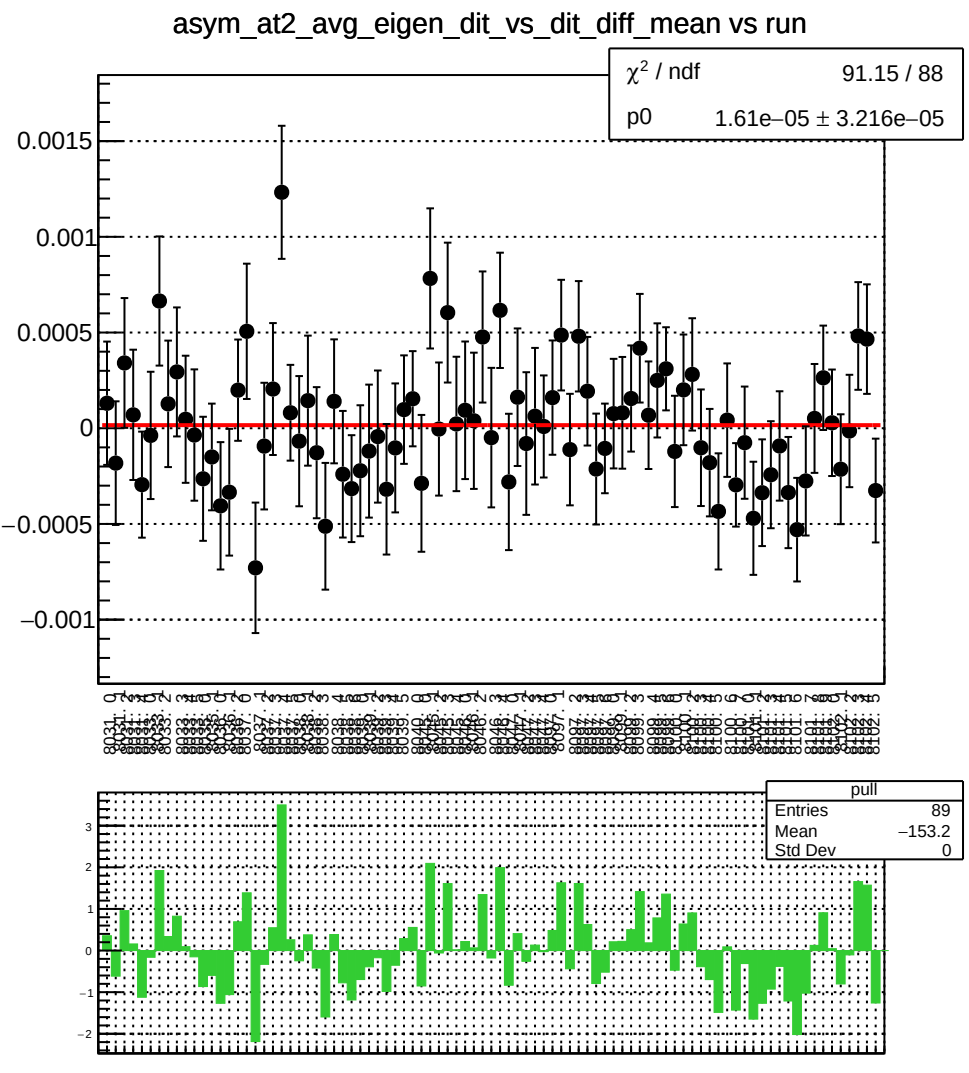

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 88.57 / 88
p0 −0.4839 ± 0.3583
pull
Entries 89
Mean 344.9
Std Dev 0

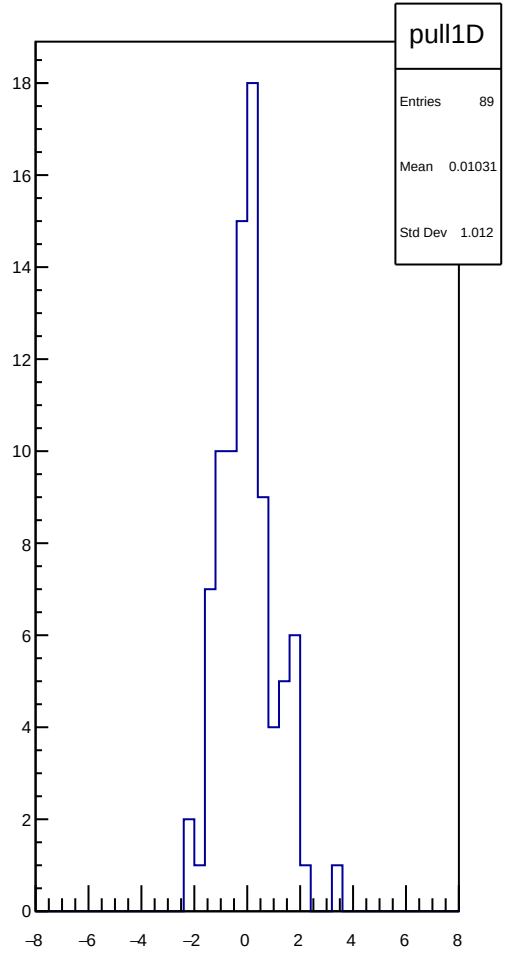

pull1D
Entries 89
Mean −0.007527
Std Dev 0.9976

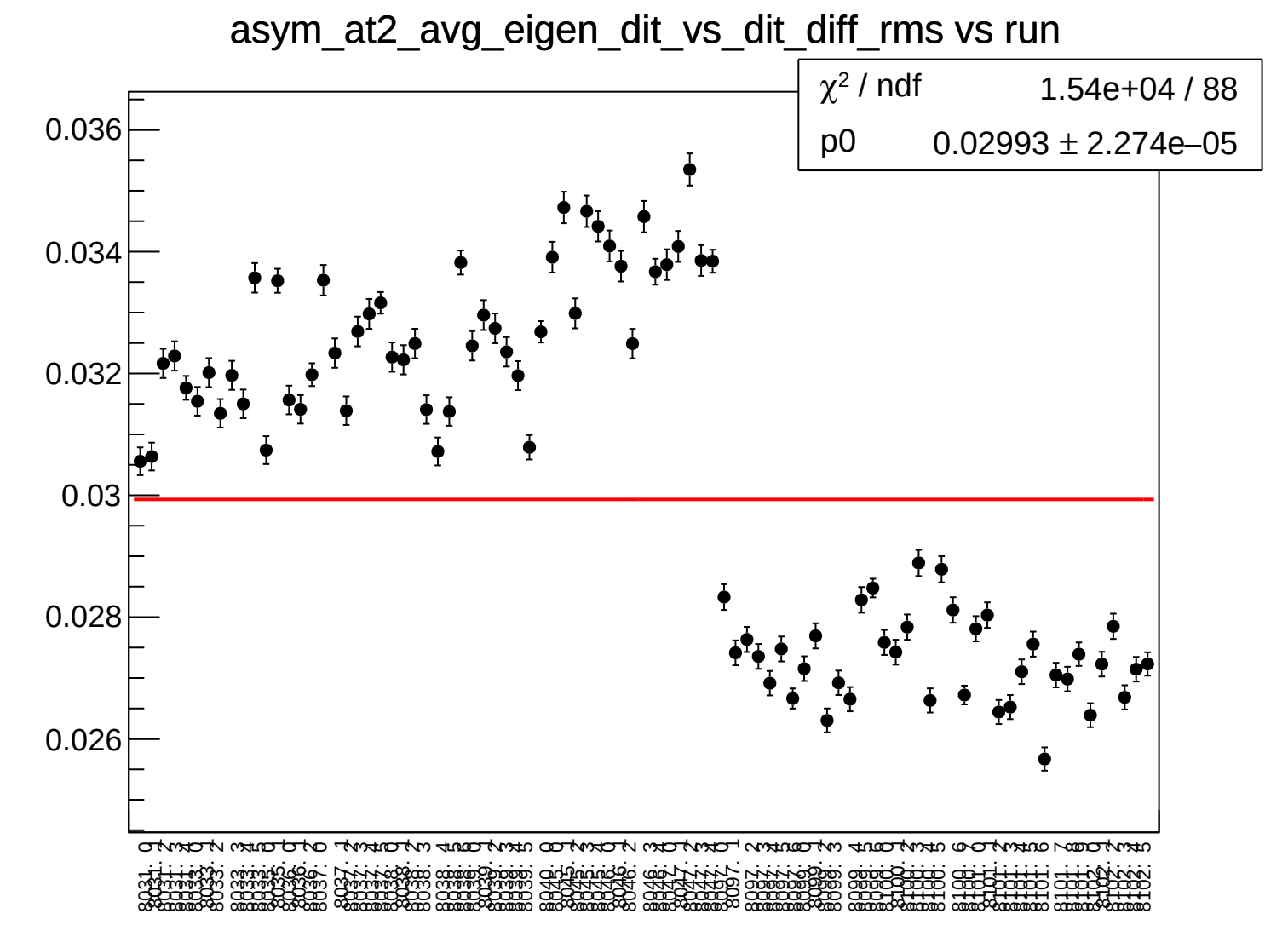

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.269e+05 / 88
p0 312.4 ± 0.2534
1000
900
800
700
600
500
400
300
200

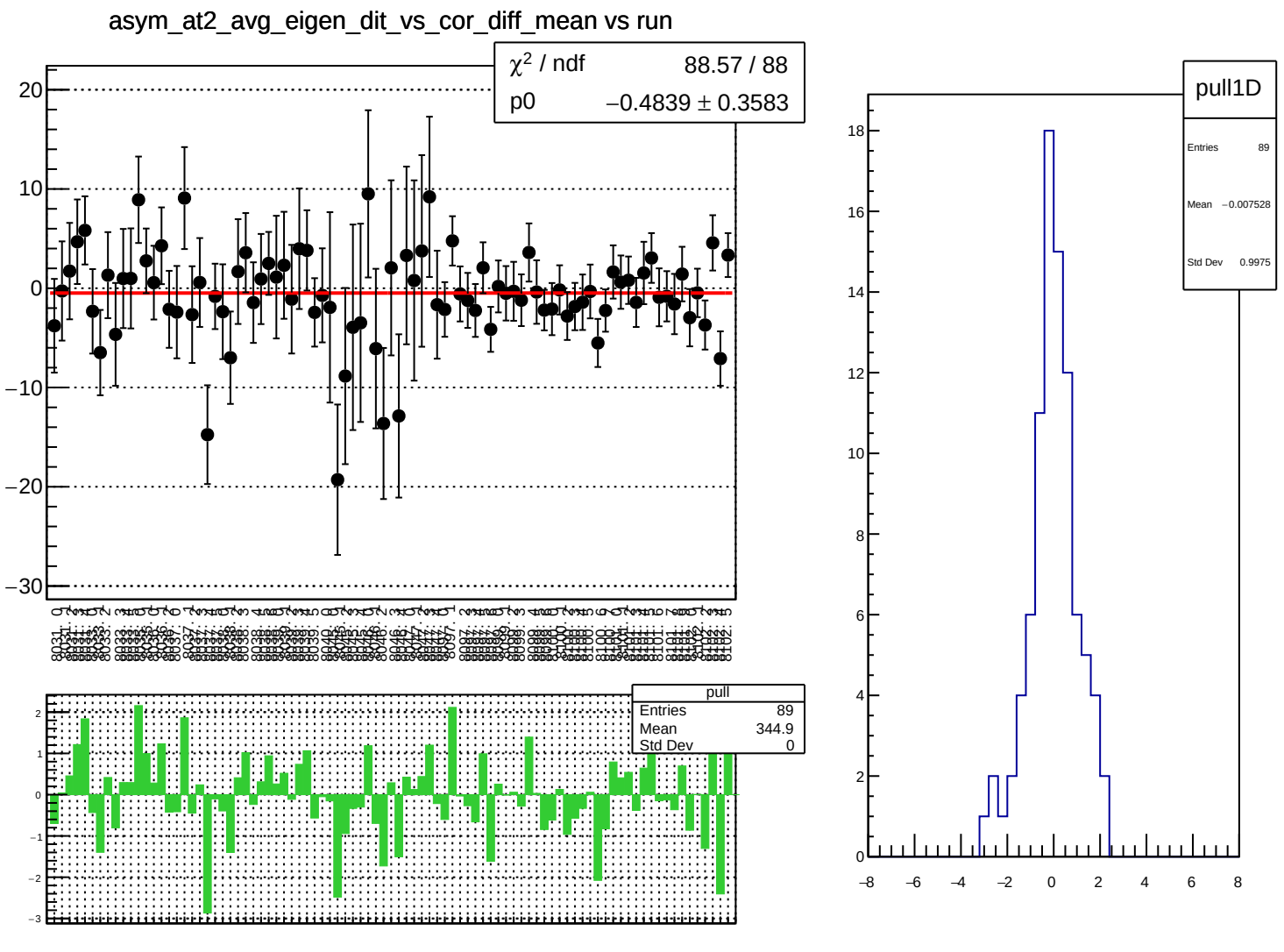

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.57 / 88
p0 −0.4839 ± 0.3583
pull
Entries 89
Mean 344.9
Std Dev 0
pull1D
Entries 89
Mean −0.007527
Std Dev 0.9976

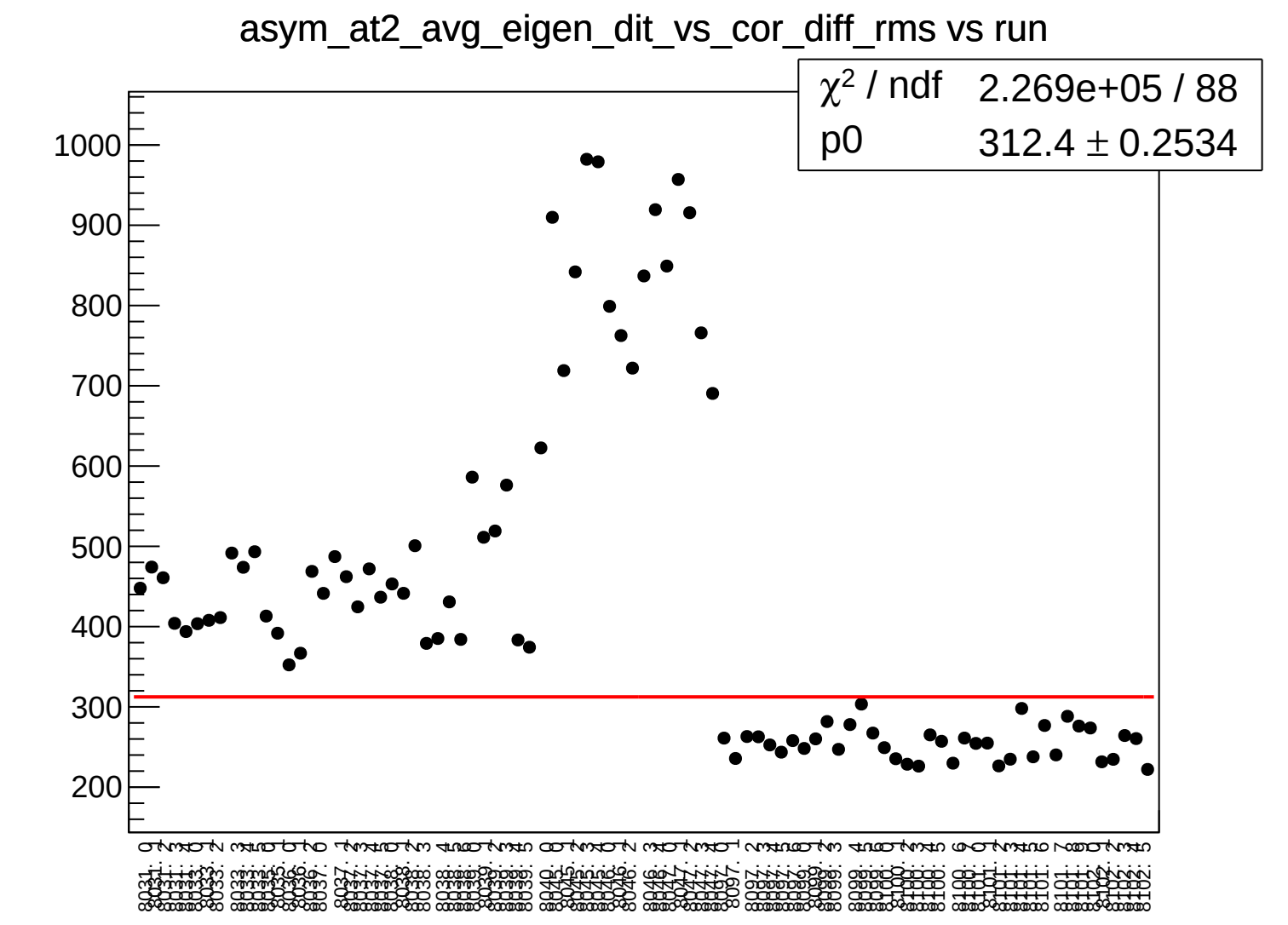

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.269e+05 / 88
p0 312.4 ± 0.2534
1000
900
800
700
600
500
400
300
200

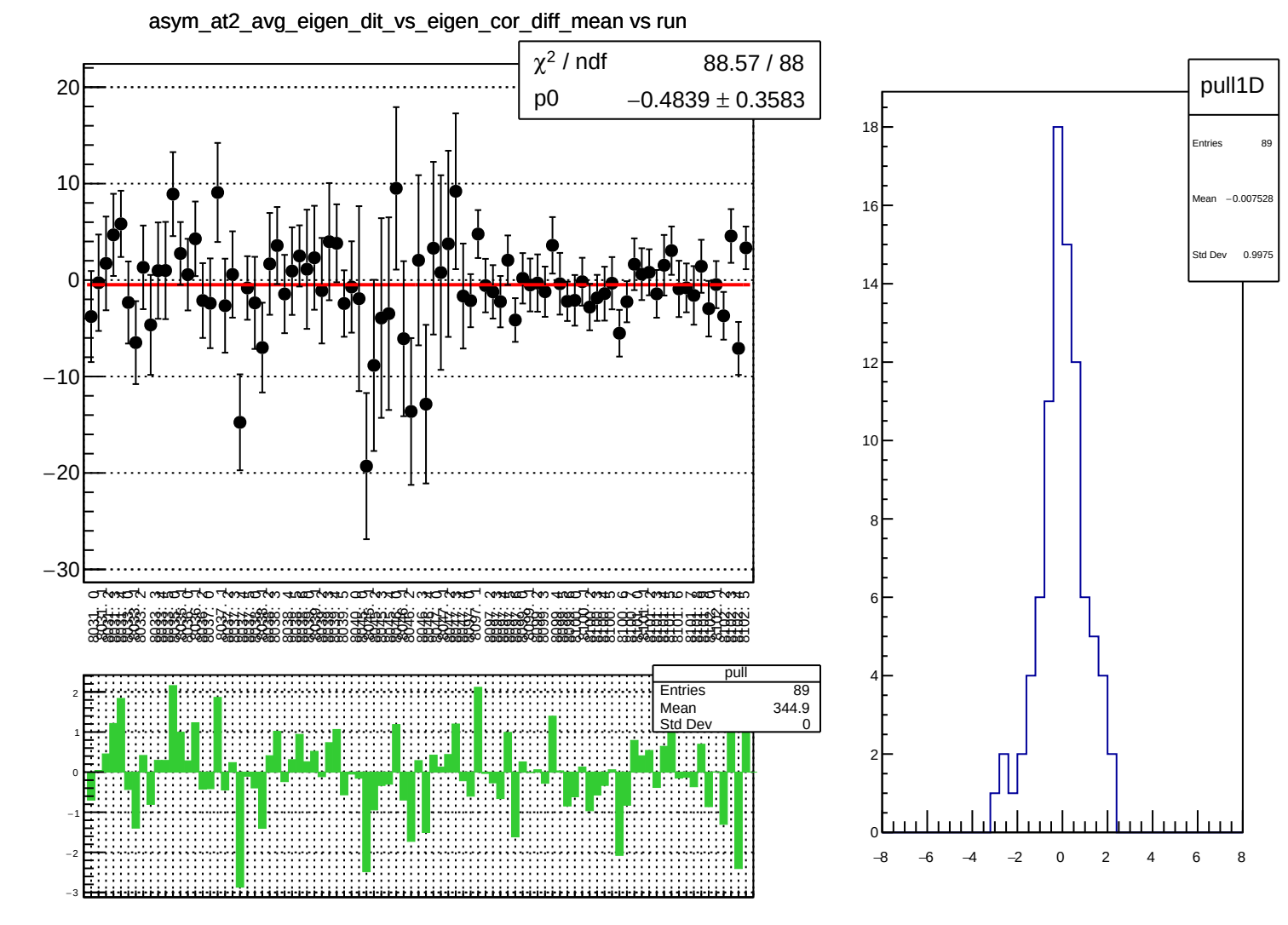

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 91.15 / 88
p0 1.61e−05 ± 3.216e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 89
Mean −153.2
Std Dev 0
3
2
1
0
−1
−2

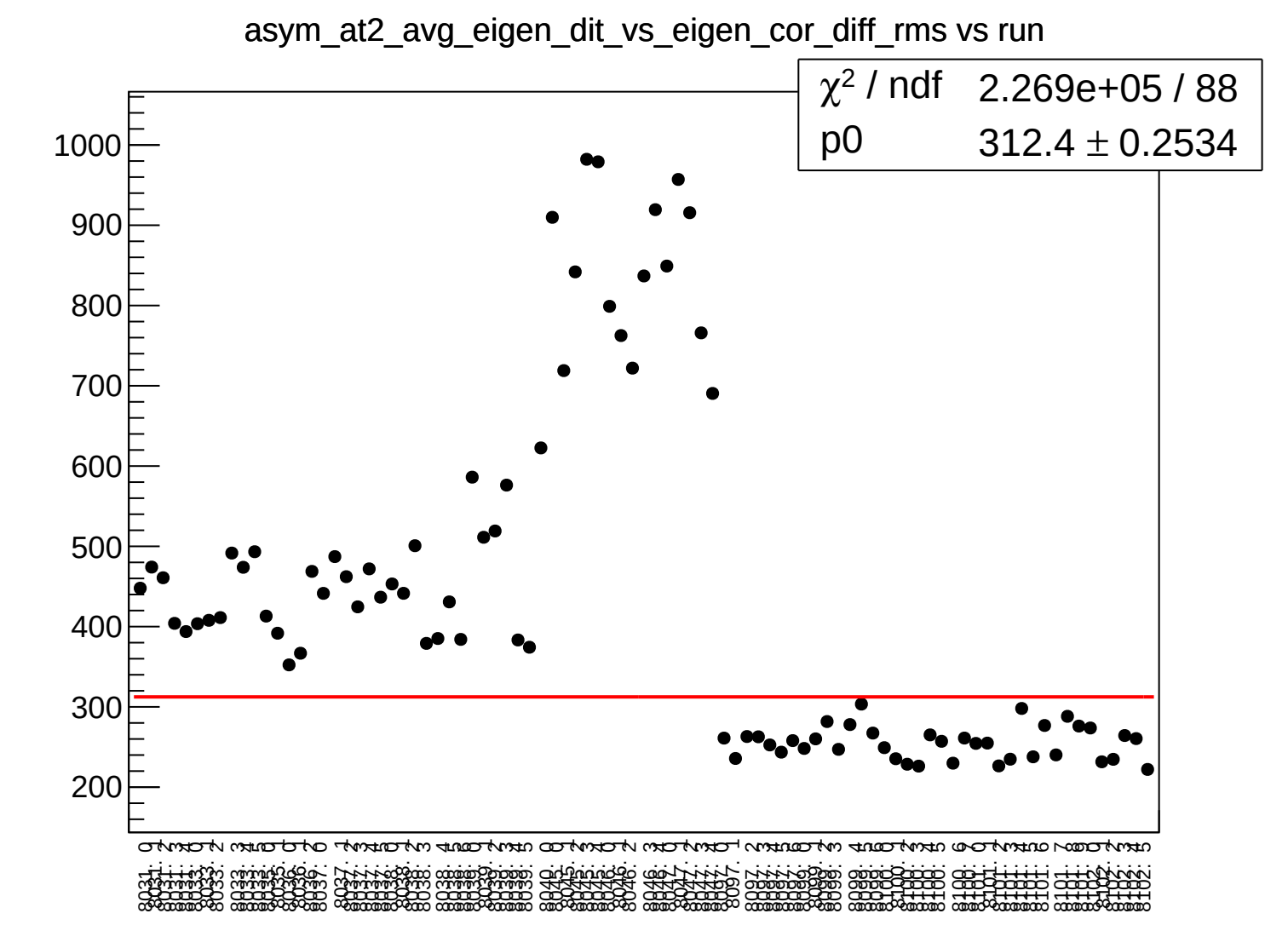

pull1D
Entries 89
Mean 0.01031
Std Dev 1.012
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

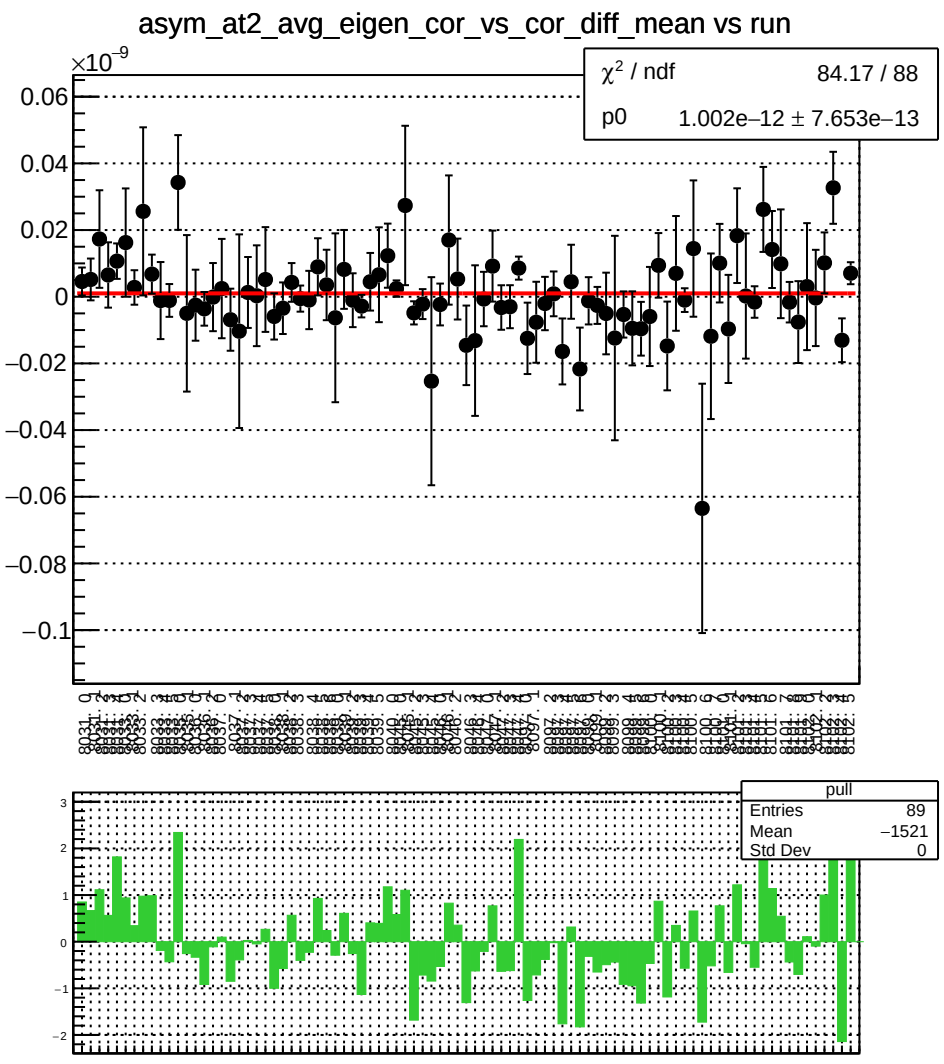

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.54e+04 / 88
p0 0.02993 ± 2.274e−05
0.036
0.034
0.032
0.03
0.028
0.026

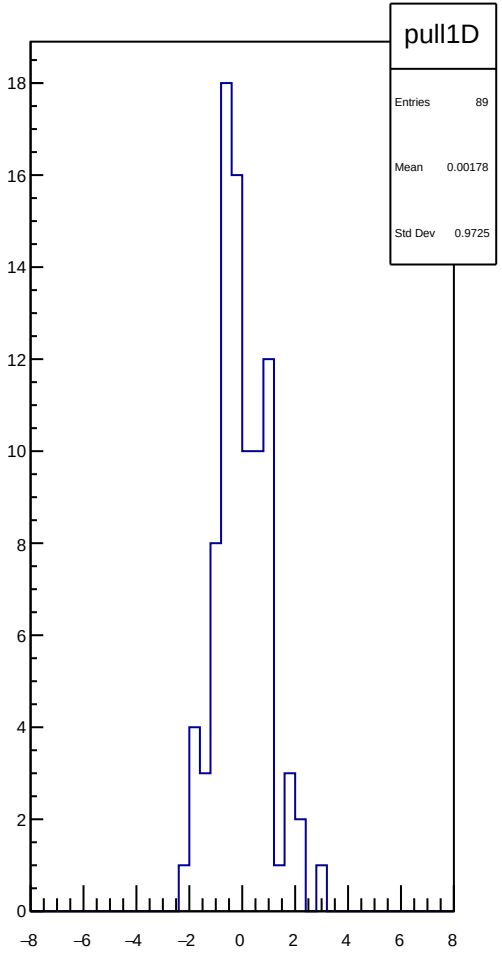

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.57 / 88
p0 −0.4839 ± 0.3583
pull
Entries 89
Mean 344.9
Std Dev 0
pull1D
Entries 89
Mean −0.007528
Std Dev 0.9975

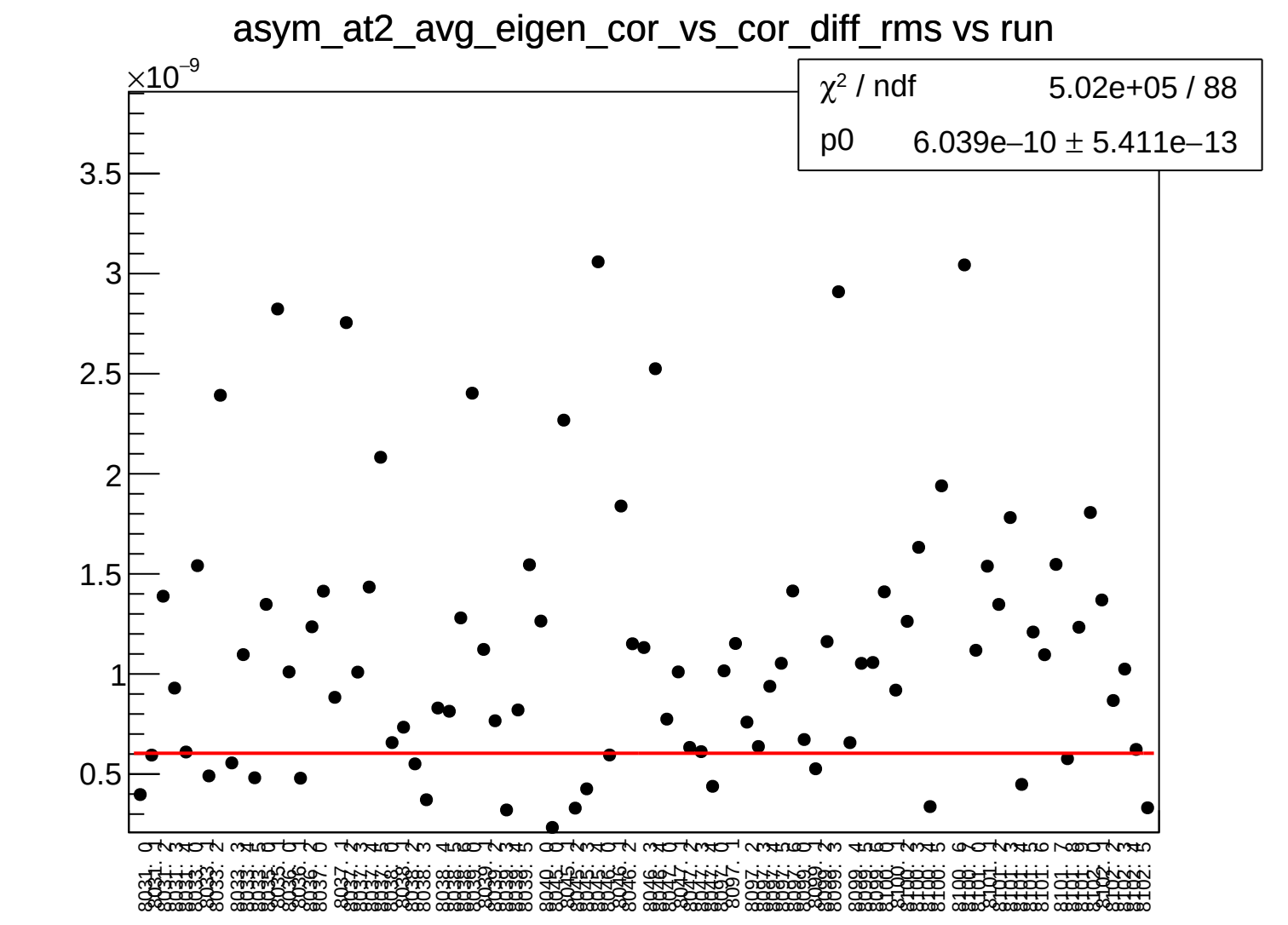

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.269e+05 / 88
p0 312.4 ± 0.2534
1000
900
800
700
600
500
400
300
200

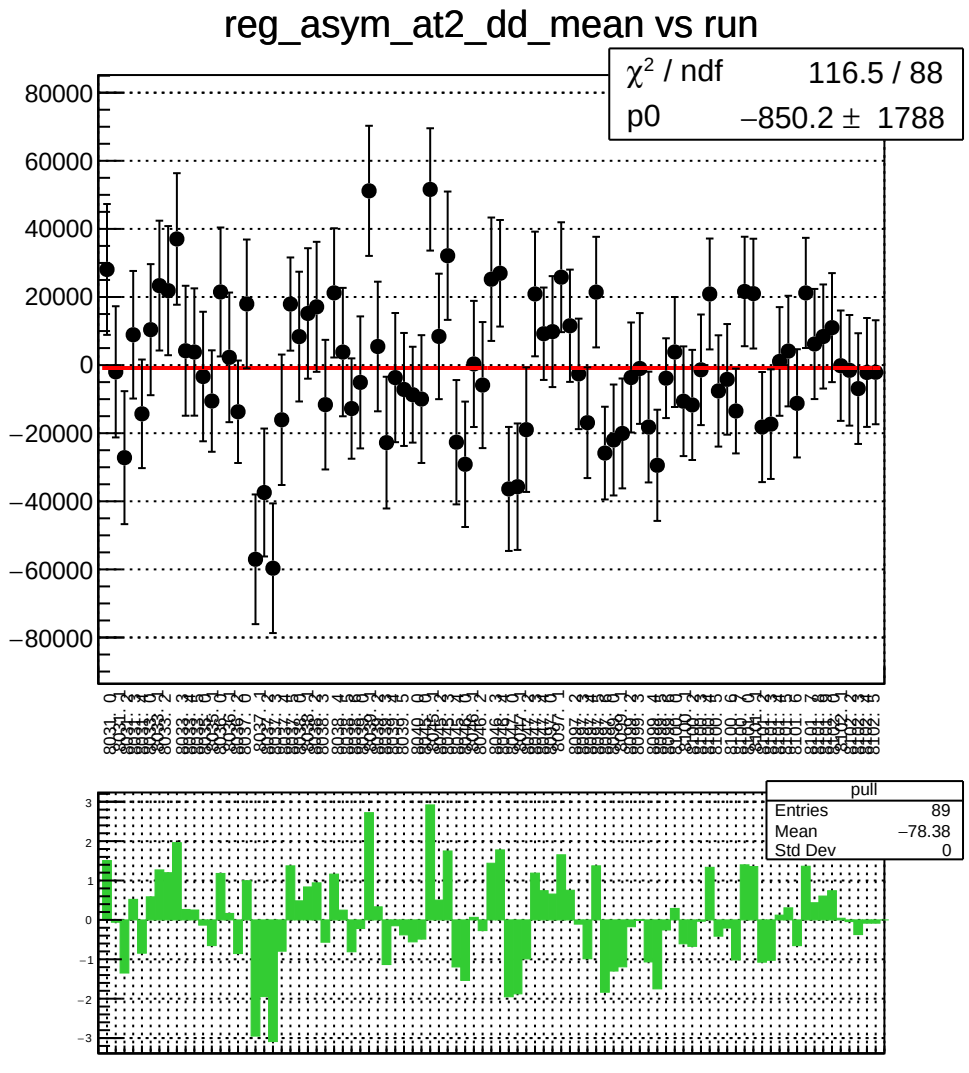

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.57 / 88
p0 −0.4839 ± 0.3583
pull
Entries 89
Mean 344.9
Std Dev 0
pull1D
Entries 89
Mean −0.007528
Std Dev 0.9975

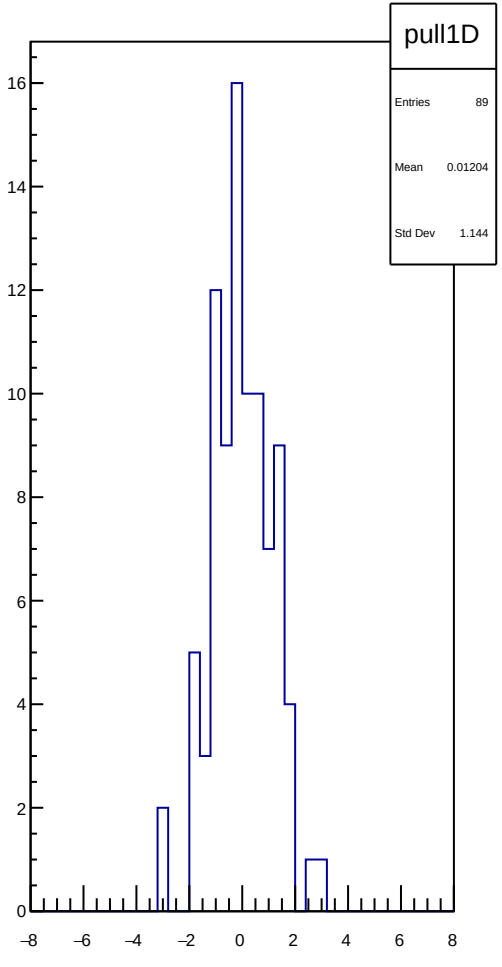

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.269e+05 / 88
p0 312.4 ± 0.2534
1000
900
800
700
600
500
400
300
200

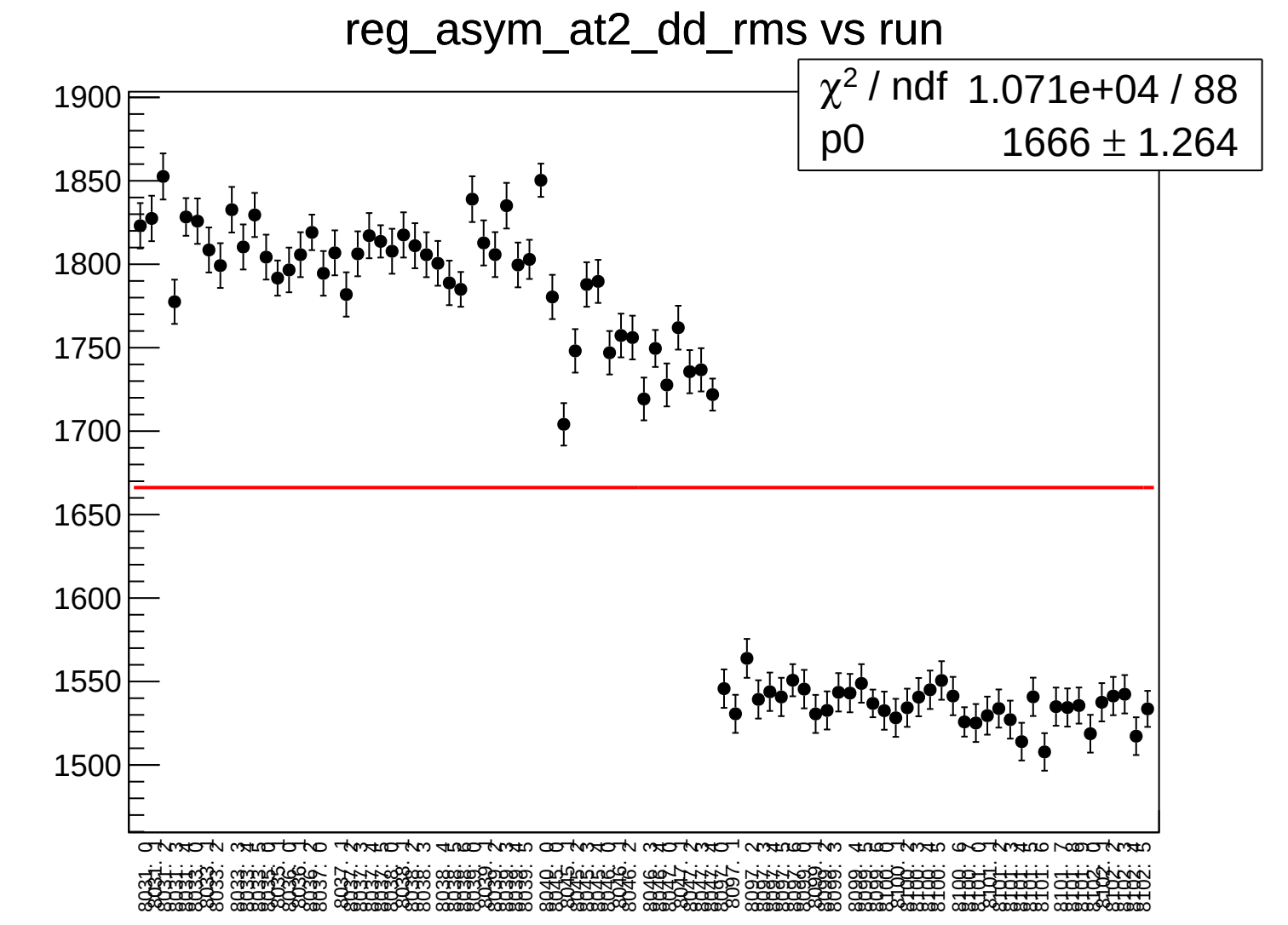

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 84.17 / 88
p0 1.002e−12 ± 7.653e−13
pull
Entries 89
Mean −1521
Std Dev 0

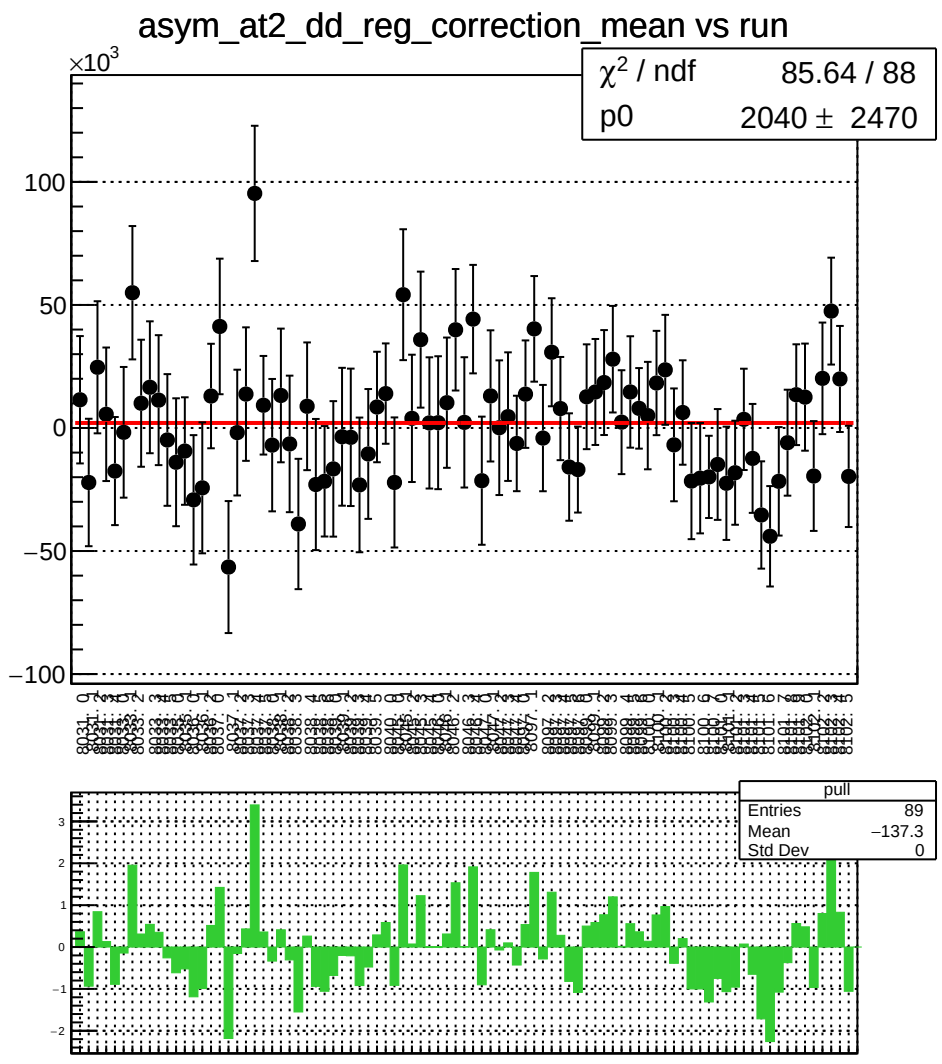

pull1D
Entries 89
Mean 0.00178
Std Dev 0.9725

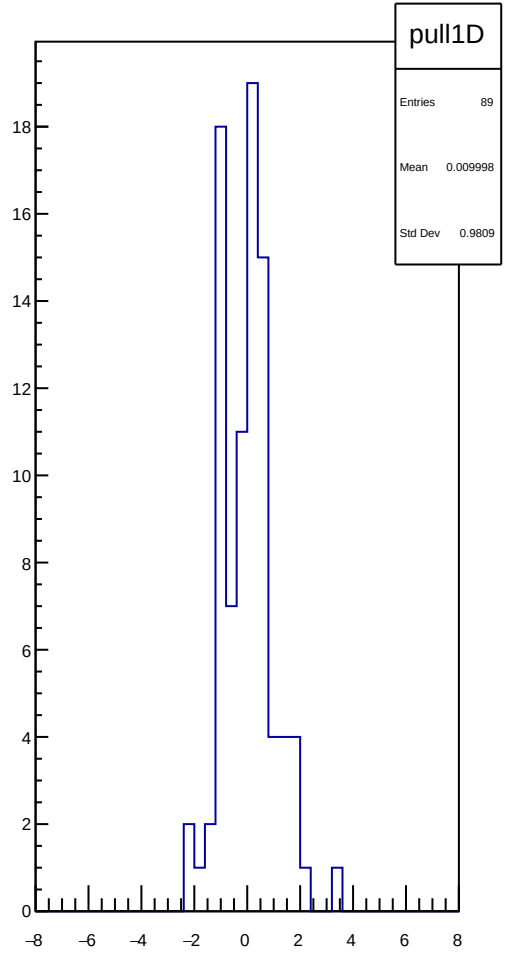

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.02e+05 / 88
p0 6.039e−10 ± 5.411e−13
3.5
3
2.5
2
1.5
1
0.5

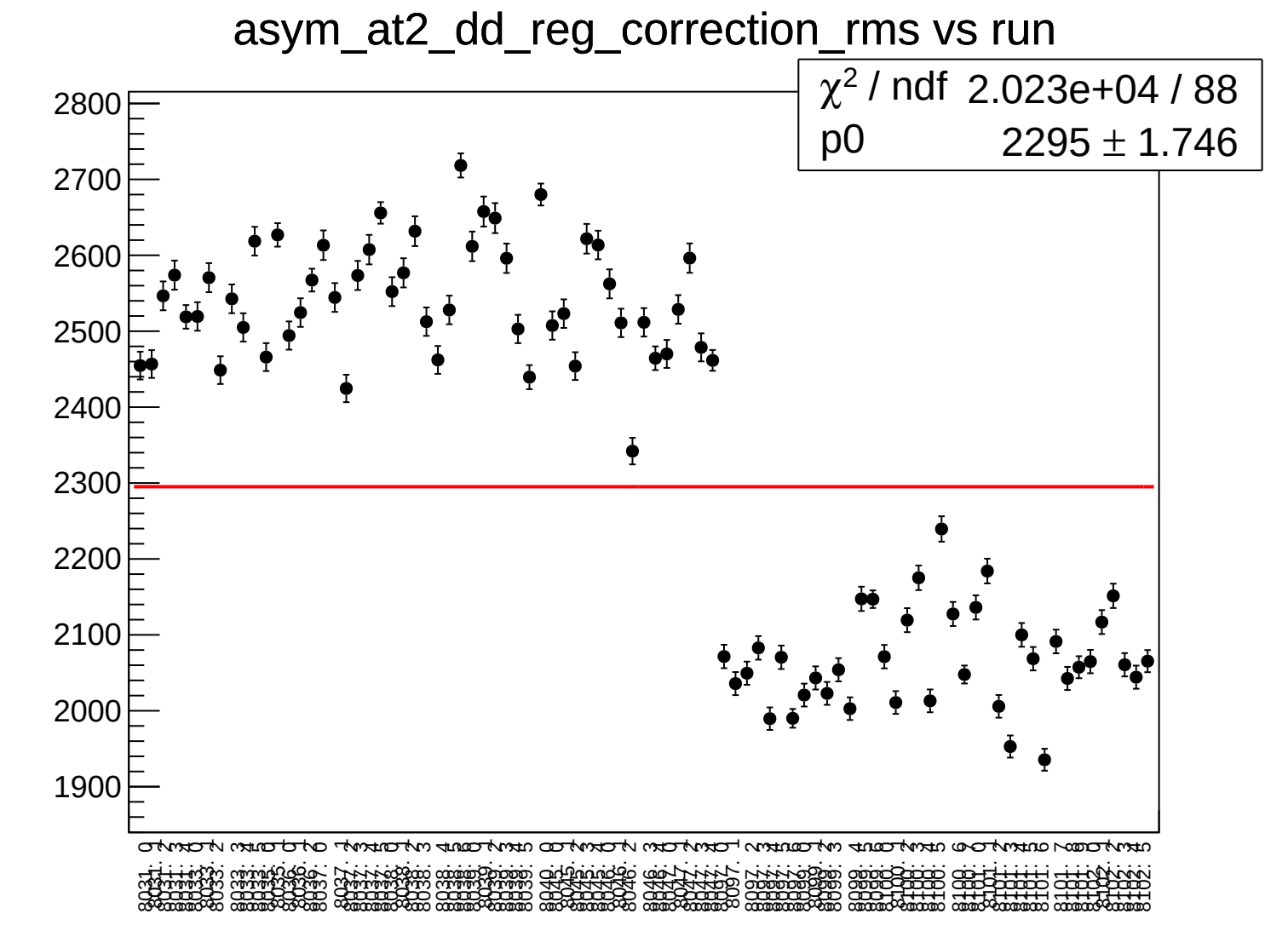

reg_asym_at2_dd_mean vs run
χ² / ndf 116.5 / 88
p0 −850.2 ± 1788
pull
Entries 89
Mean −78.38
Std Dev 0

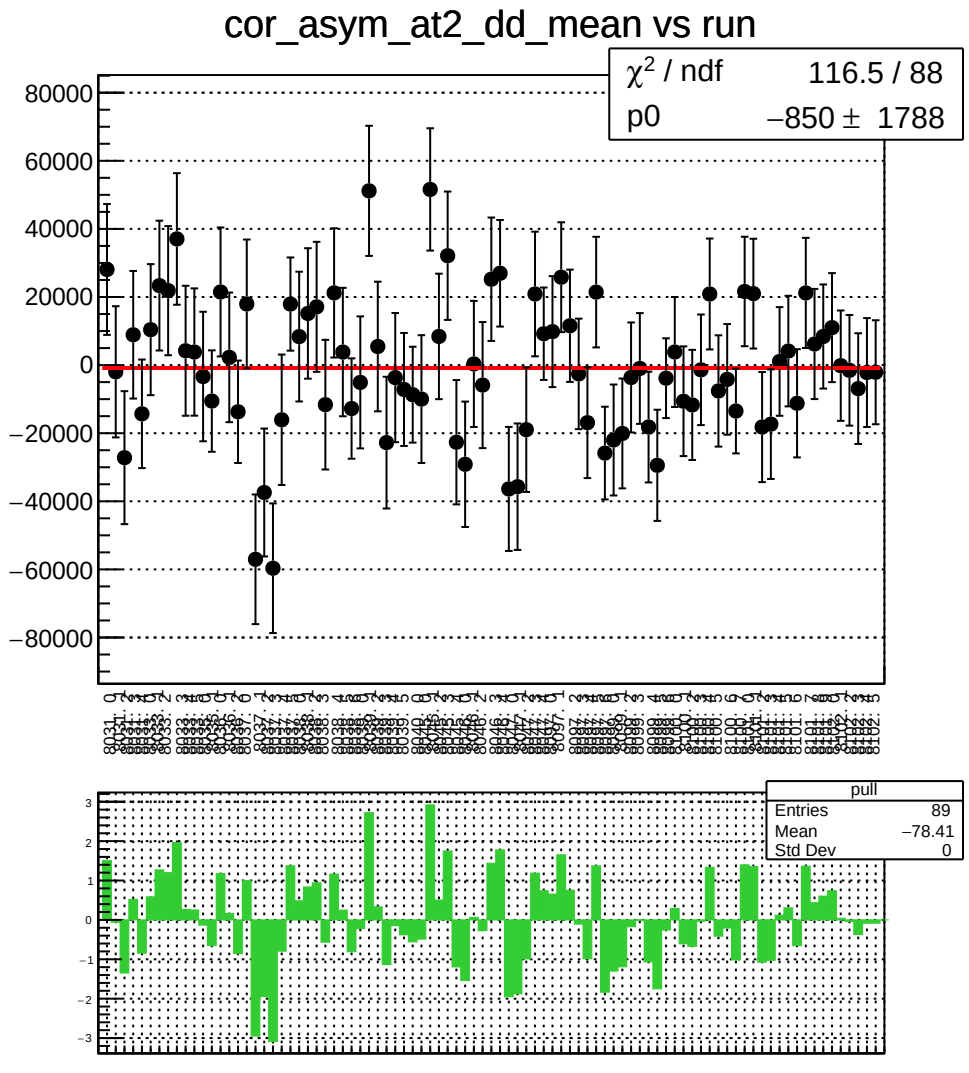

pull1D
Entries 89
Mean 0.01204
Std Dev 1.144

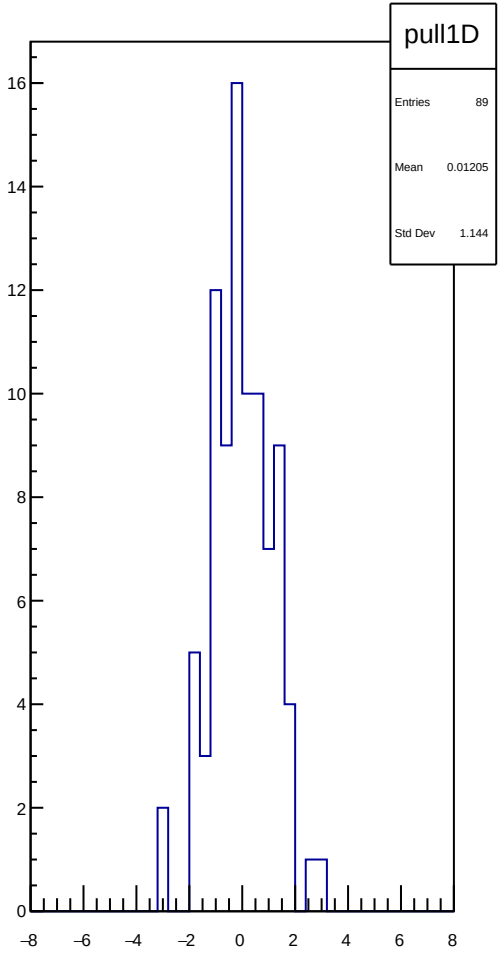

reg_asym_at2_dd_rms vs run
χ² / ndf 1.071e+04 / 88
p0 1666 ± 1.264
1900
1850
1800
1750
1700
1650
1600
1550
1500

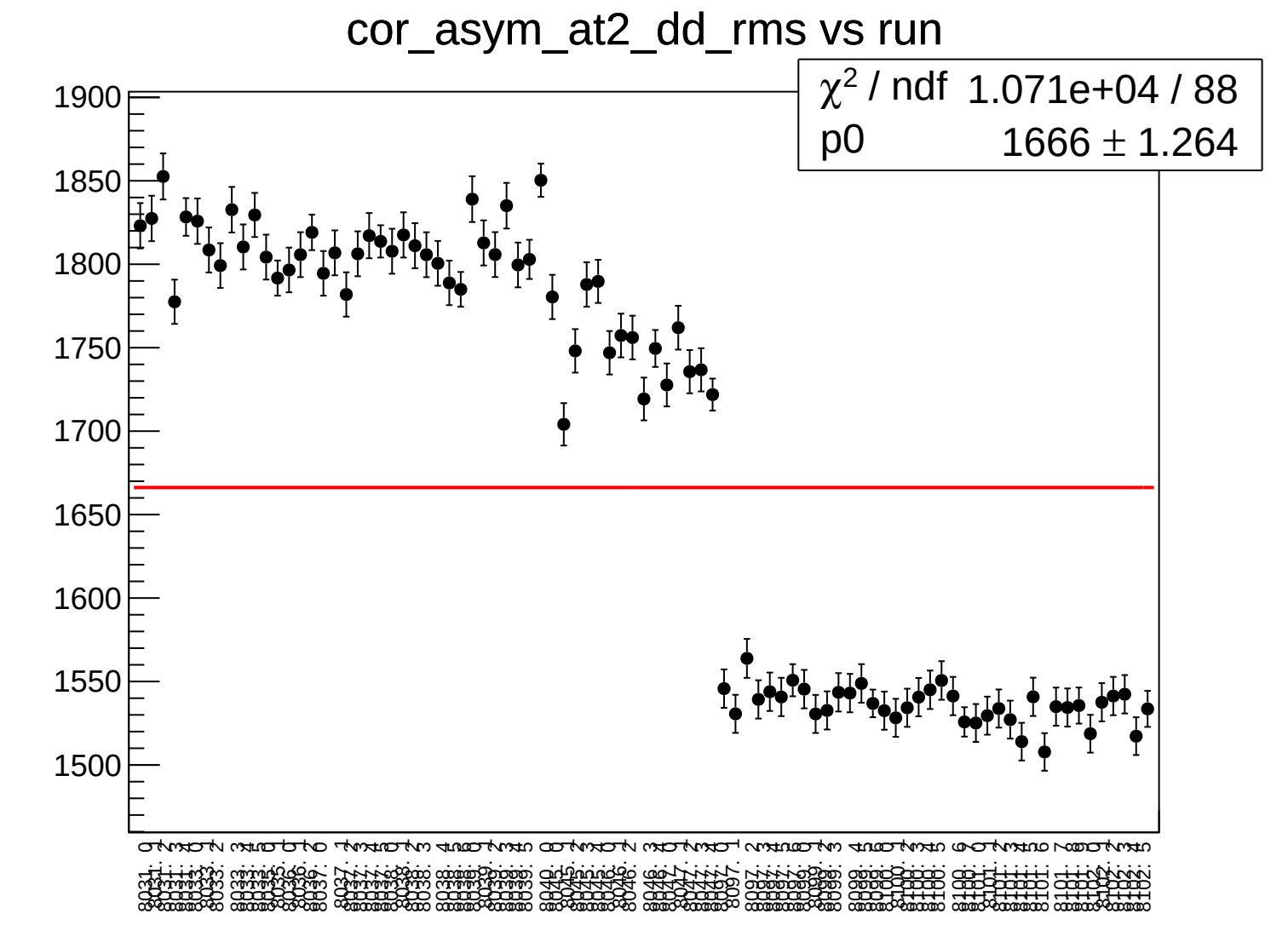

asym_at2_dd_reg_correction_mean vs run
χ² / ndf 85.64 / 88
p0 2040 ± 2470
×10³
100
50
0
−50
−100
pull
Entries 89
Mean −137.3
Std Dev 0
3
2
1
0
−1
−2

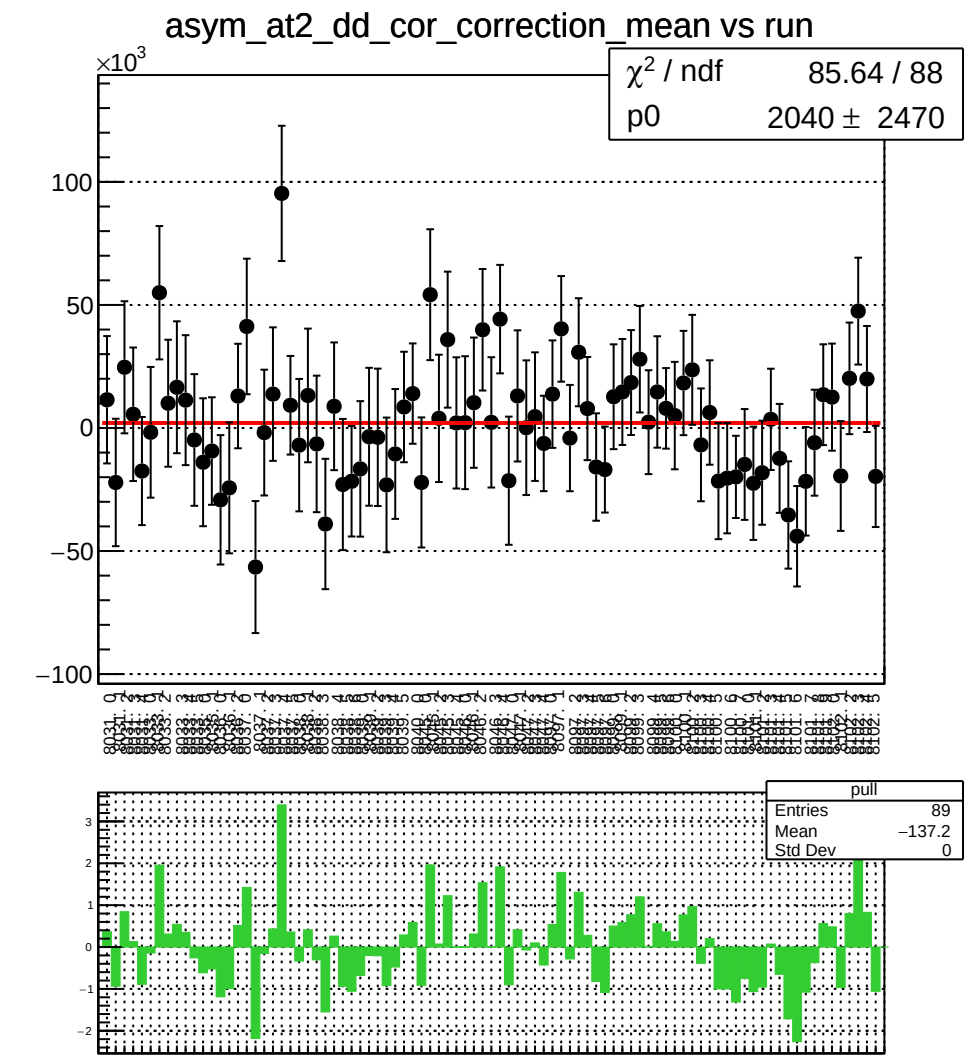

pull1D
Entries 89
Mean 0.009998
Std Dev 0.9809
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

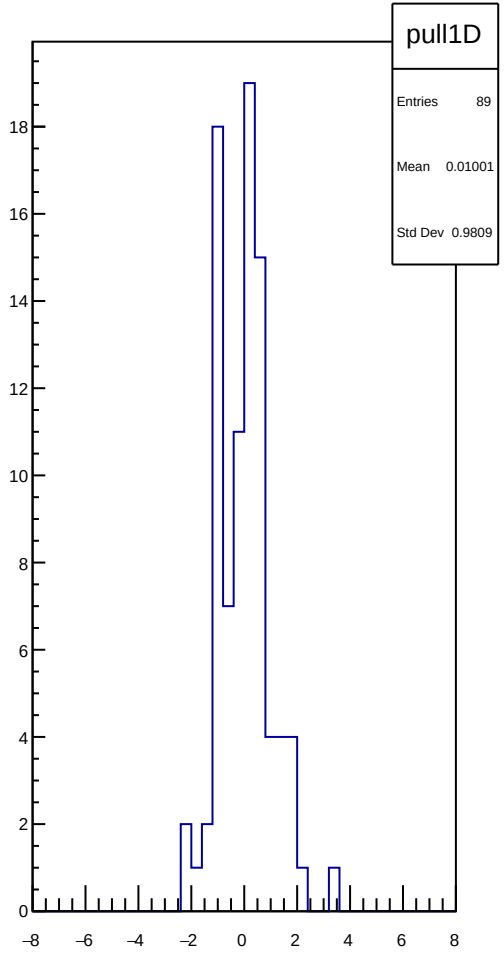

asym_at2_dd_reg_correction_rms vs run
χ² / ndf 2.023e+04 / 88
p0 2295 ± 1.746
2800
2700
2600
2500
2400
2300
2200
2100
2000
1900

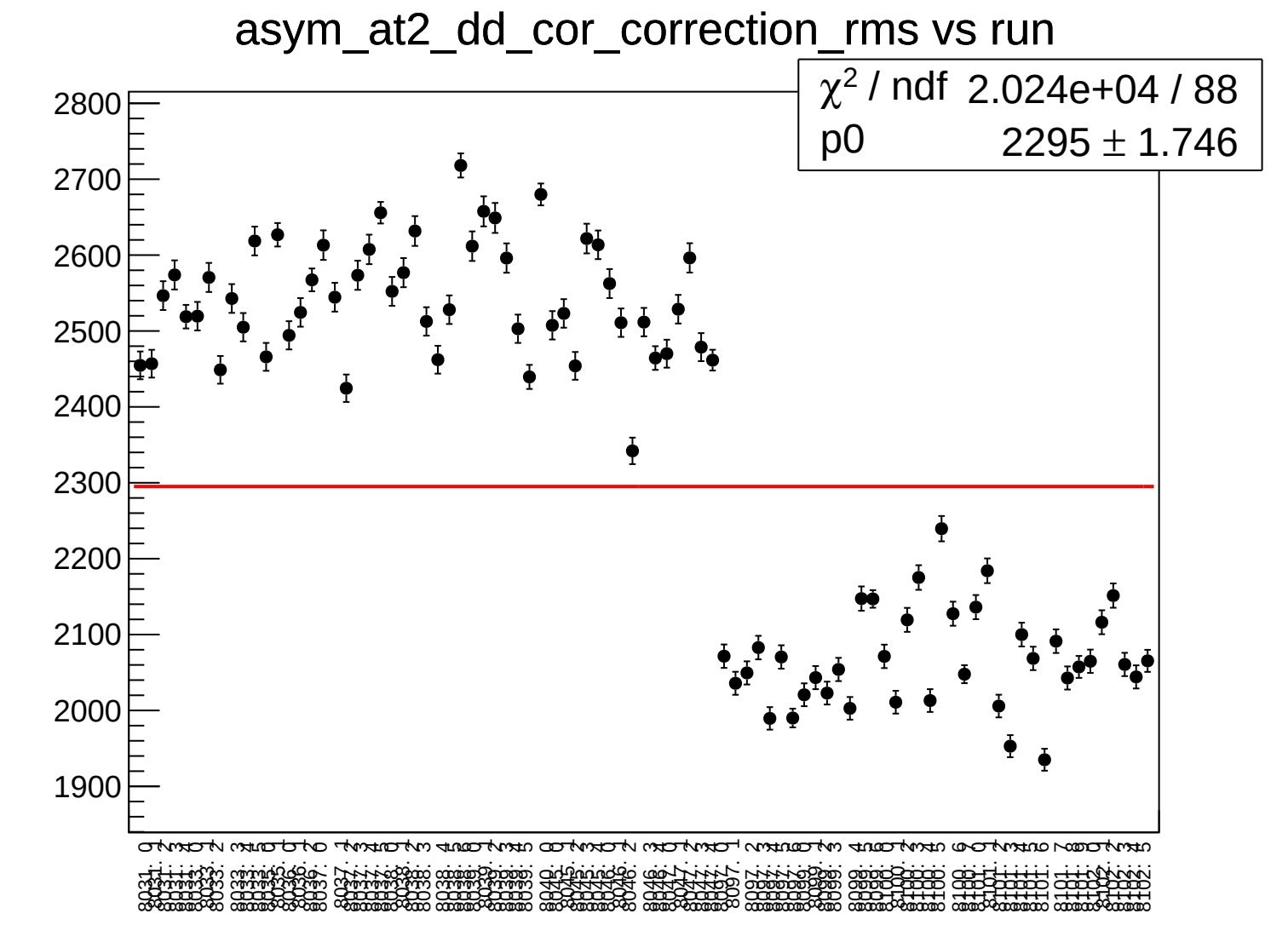

cor_asym_at2_dd_mean vs run
χ² / ndf 116.5 / 88
p0 −850 ± 1788
pull
Entries 89
Mean −78.41
Std Dev 0

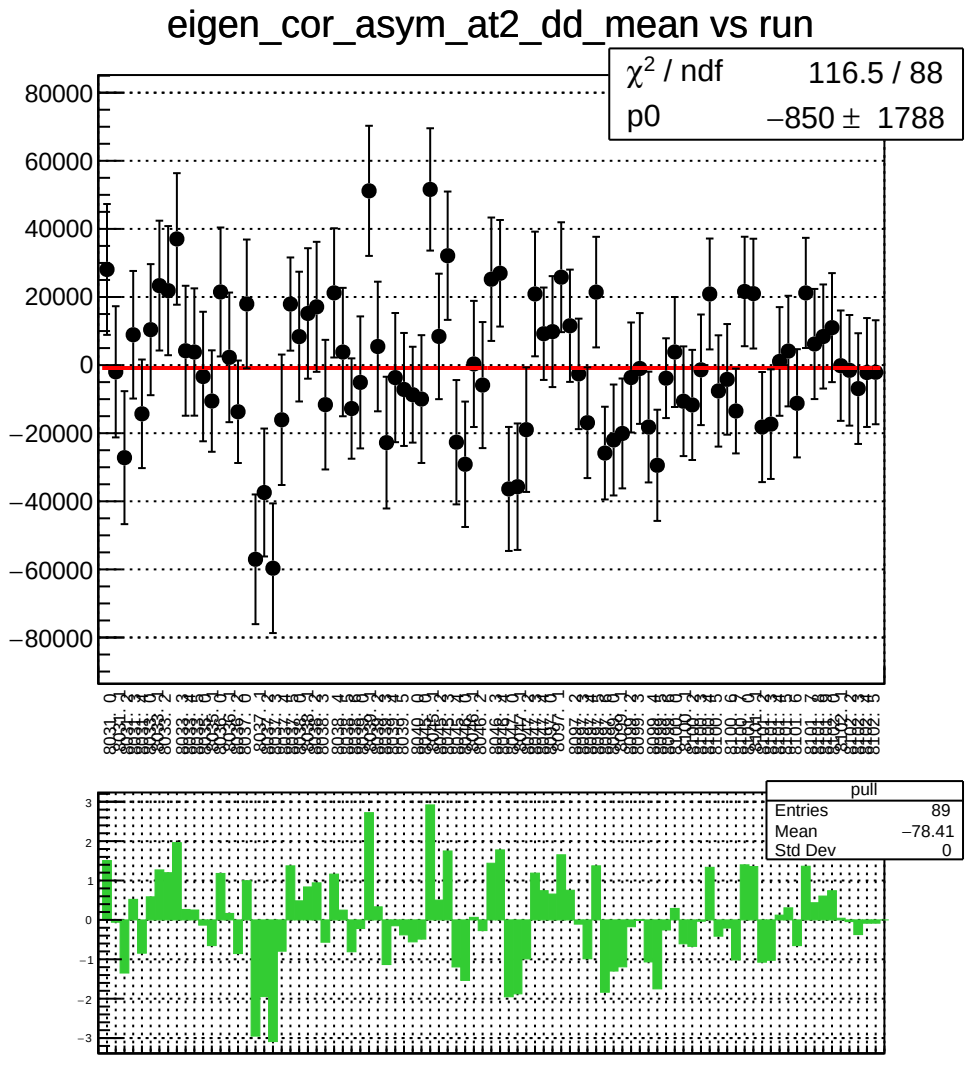

pull1D
Entries 89
Mean 0.01205
Std Dev 1.144

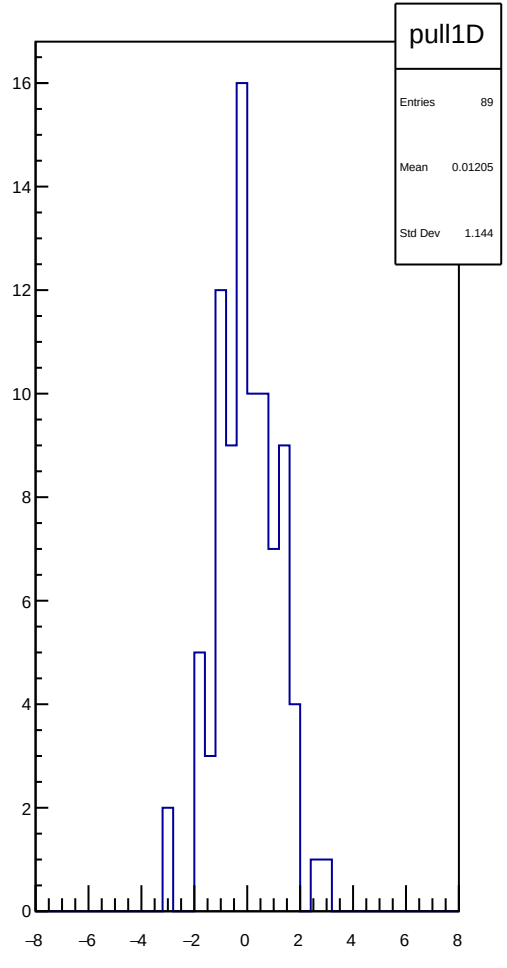

cor_asym_at2_dd_rms vs run
χ² / ndf 1.071e+04 / 88
p0 1666 ± 1.264
1900
1850
1800
1750
1700
1650
1600
1550
1500

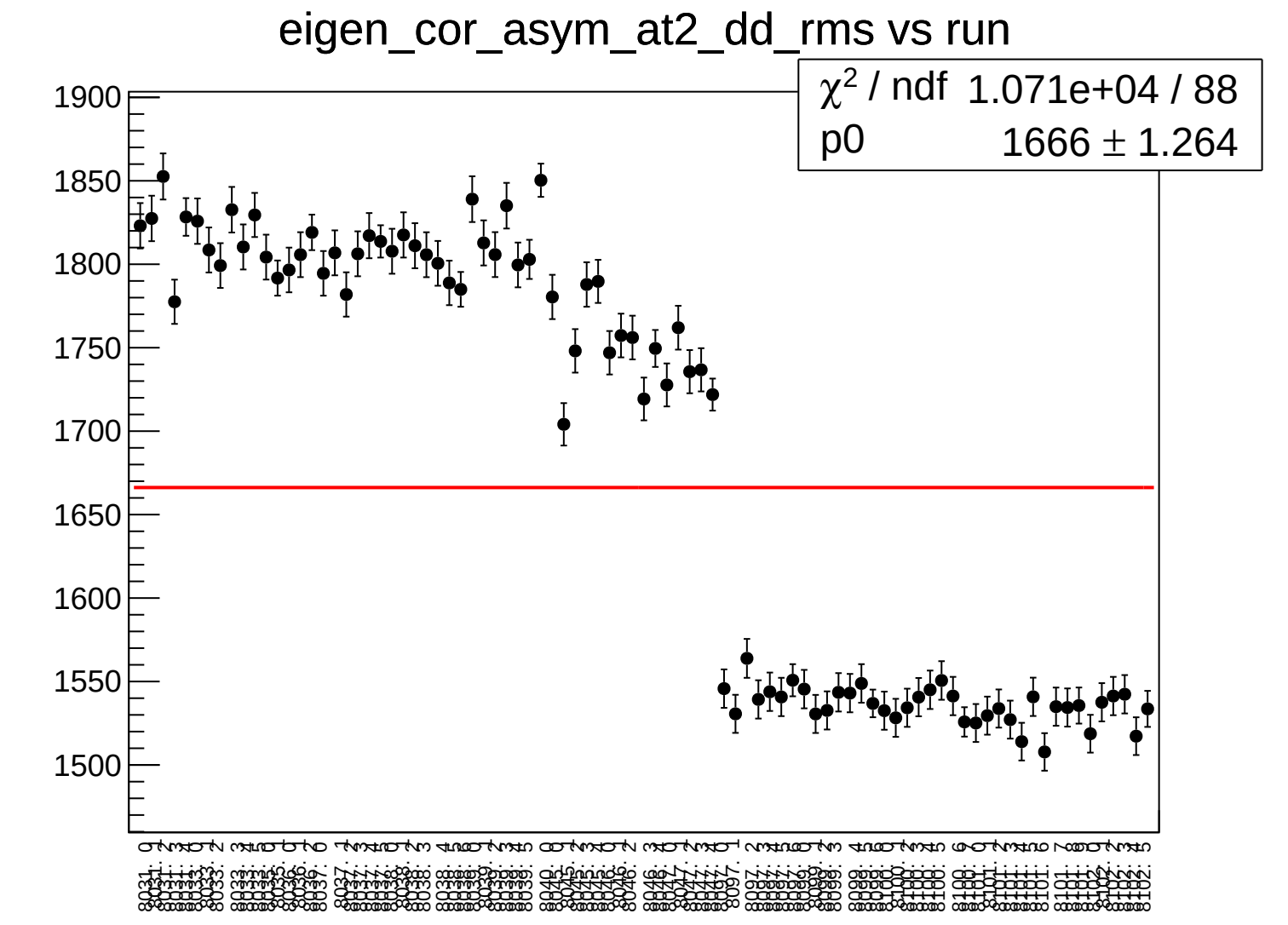

asym_at2_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 85.64 / 88
p0 2040 ± 2470
100
50
0
−50
−100
pull
Entries 89
Mean −137.2
Std Dev 0
3
2
1
0
−1
−2

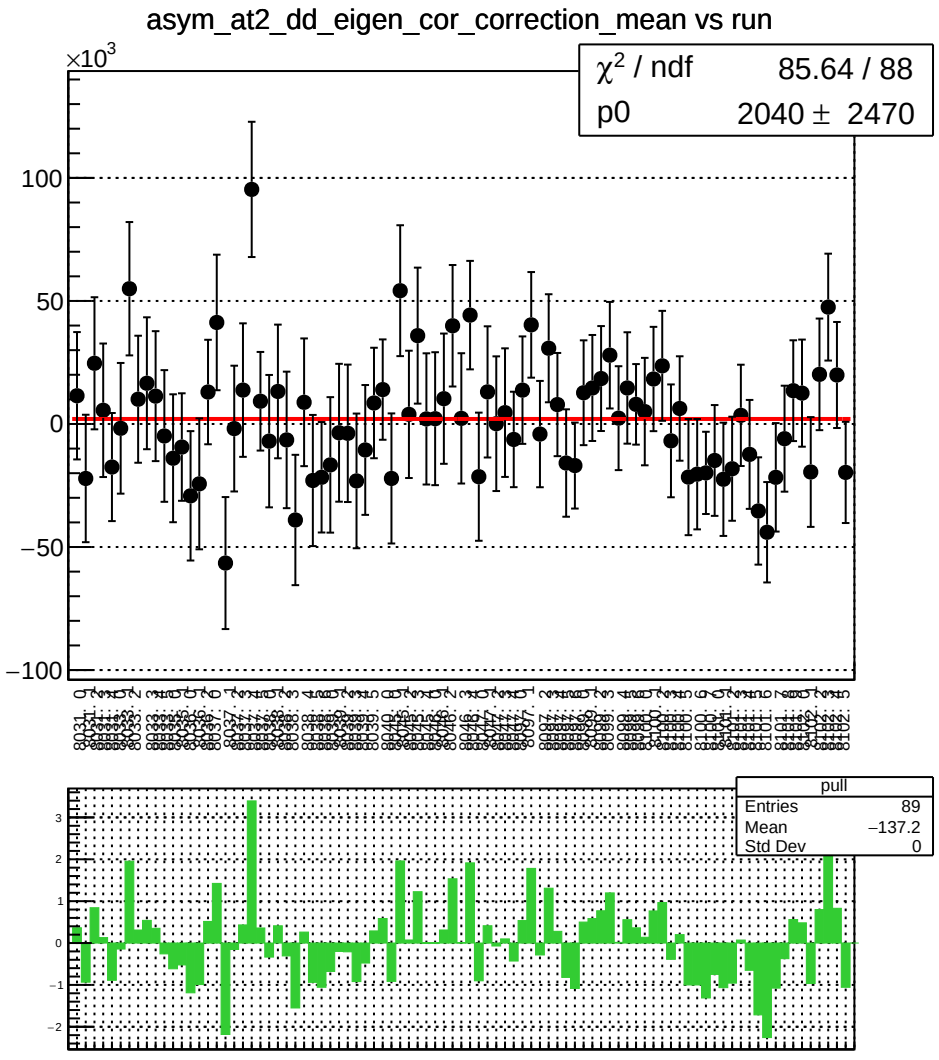

pull1D
Entries 89
Mean 0.01001
Std Dev 0.9809
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

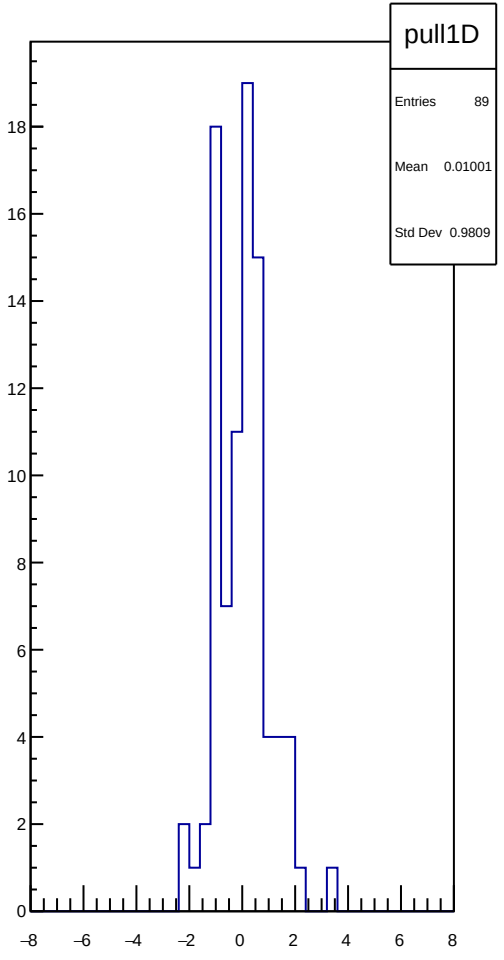

asym_at2_dd_cor_correction_rms vs run
χ² / ndf 2.024e+04 / 88
p0 2295 ± 1.746
2800
2700
2600
2500
2400
2300
2200
2100
2000
1900

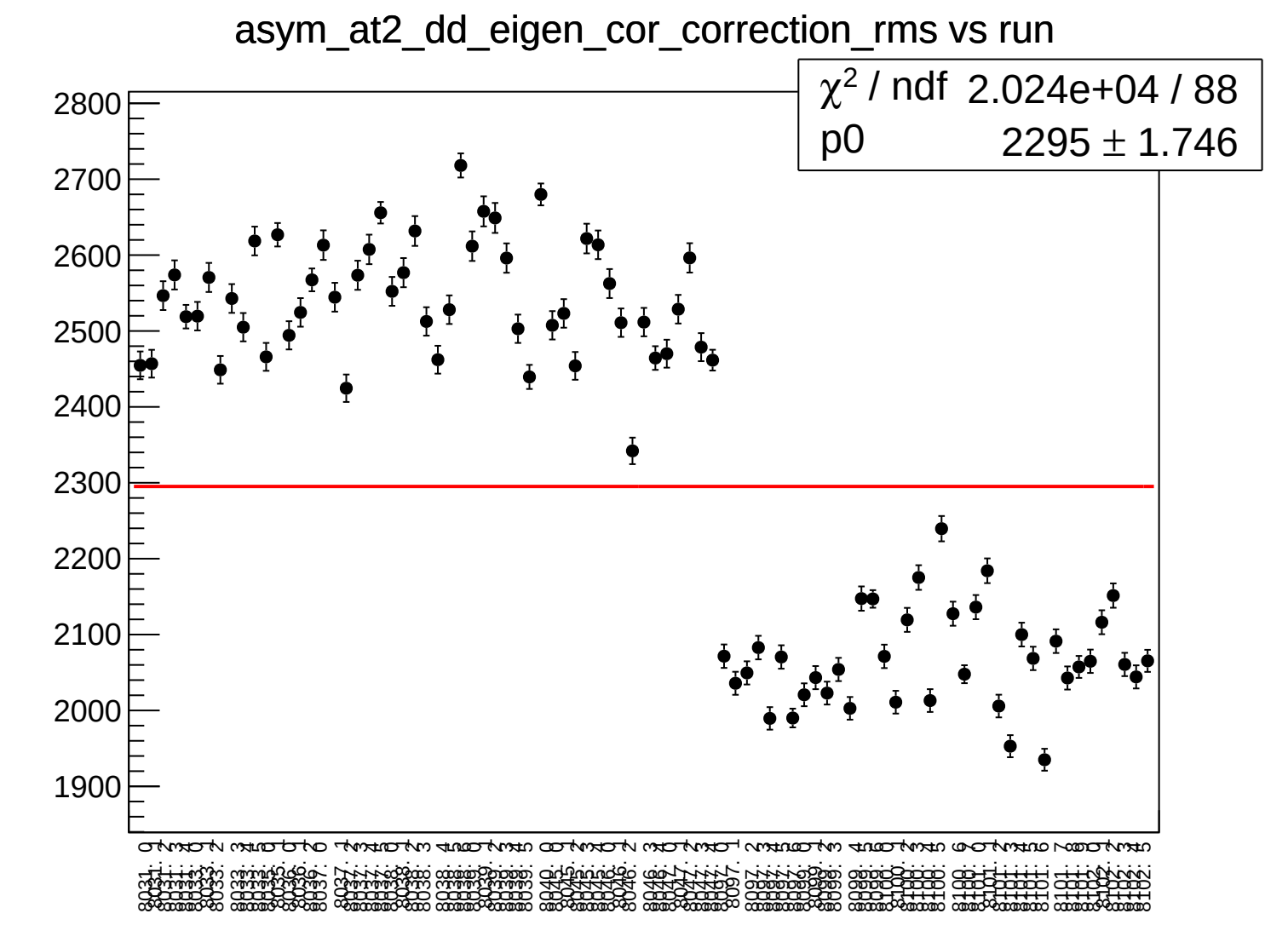

eigen_cor_asym_at2_dd_mean vs run
χ² / ndf 116.5 / 88
p0 −850 ± 1788
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −78.41
Std Dev 0
3
2
1
0
−1
−2
−3

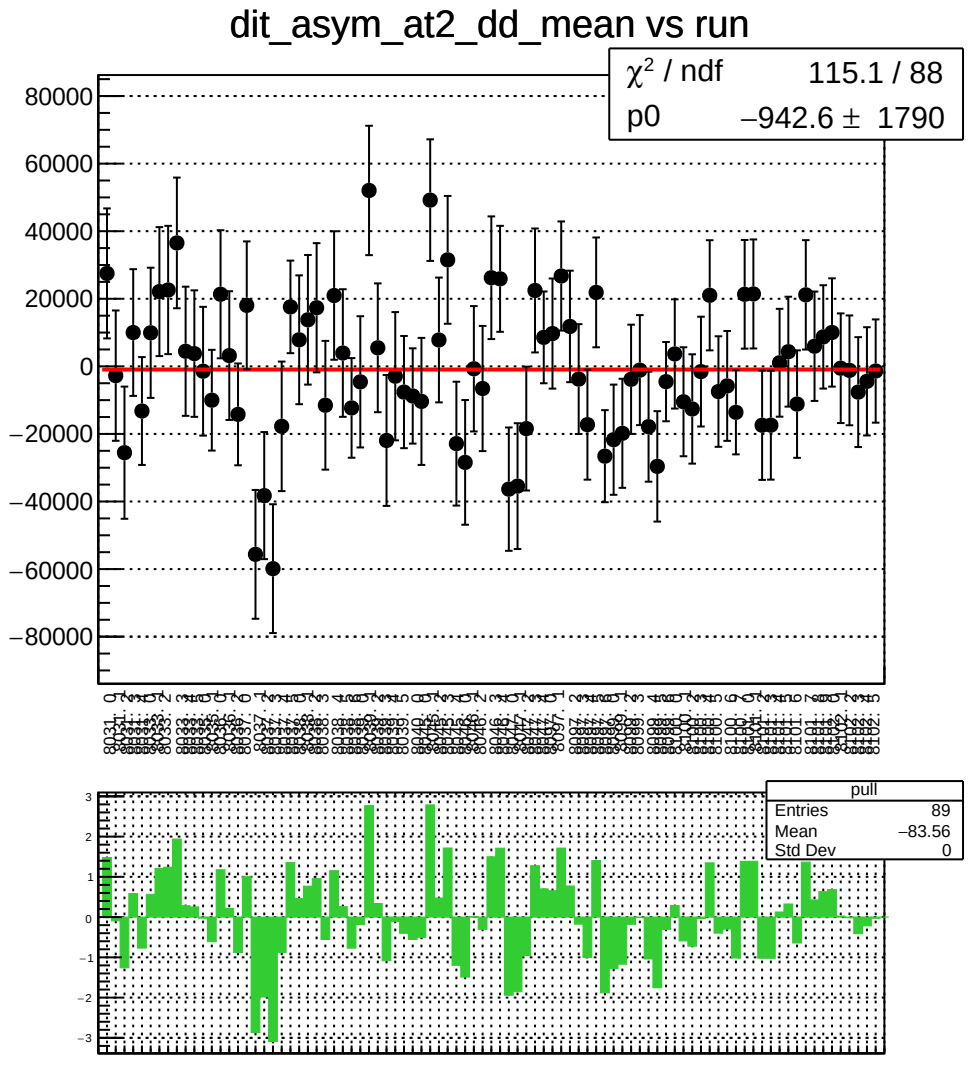

pull1D
Entries 89
Mean 0.01205
Std Dev 1.144
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

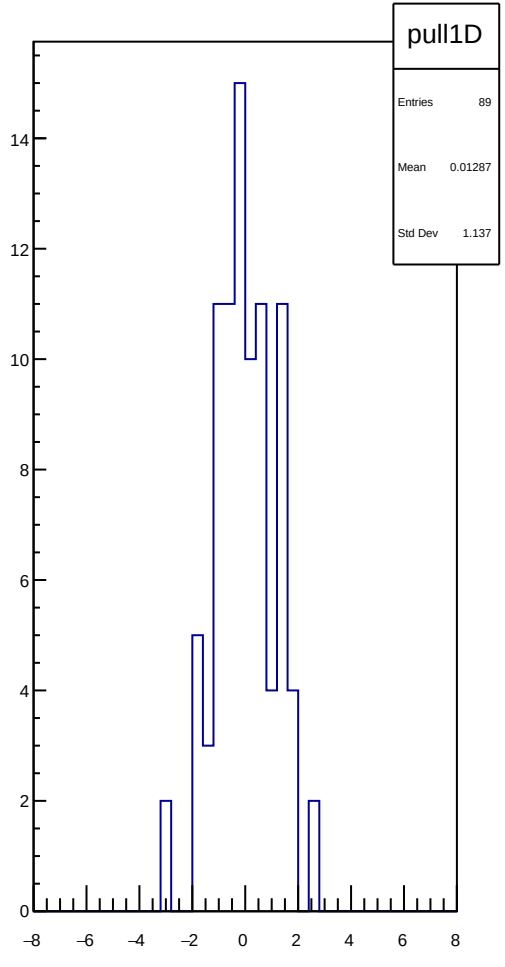

eigen_cor_asym_at2_dd_rms vs run
χ² / ndf 1.071e+04 / 88
p0 1666 ± 1.264
1900
1850
1800
1750
1700
1650
1600
1550
1500

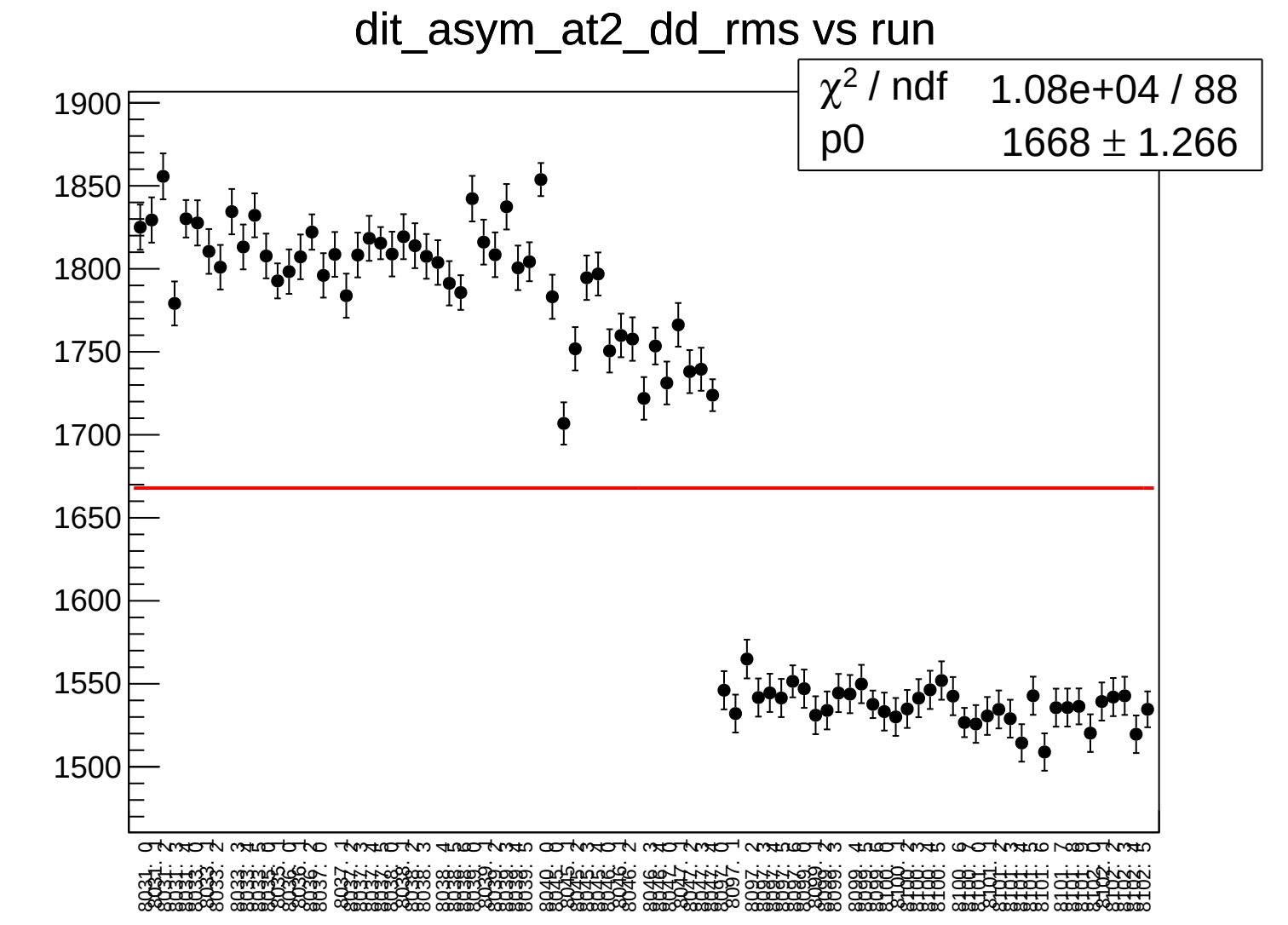

asym_at2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 85.64 / 88
p0 2040 ± 2470
100
50
0
−50
−100
pull
Entries 89
Mean −137.2
Std Dev 0
3
2
1
0
−1
−2

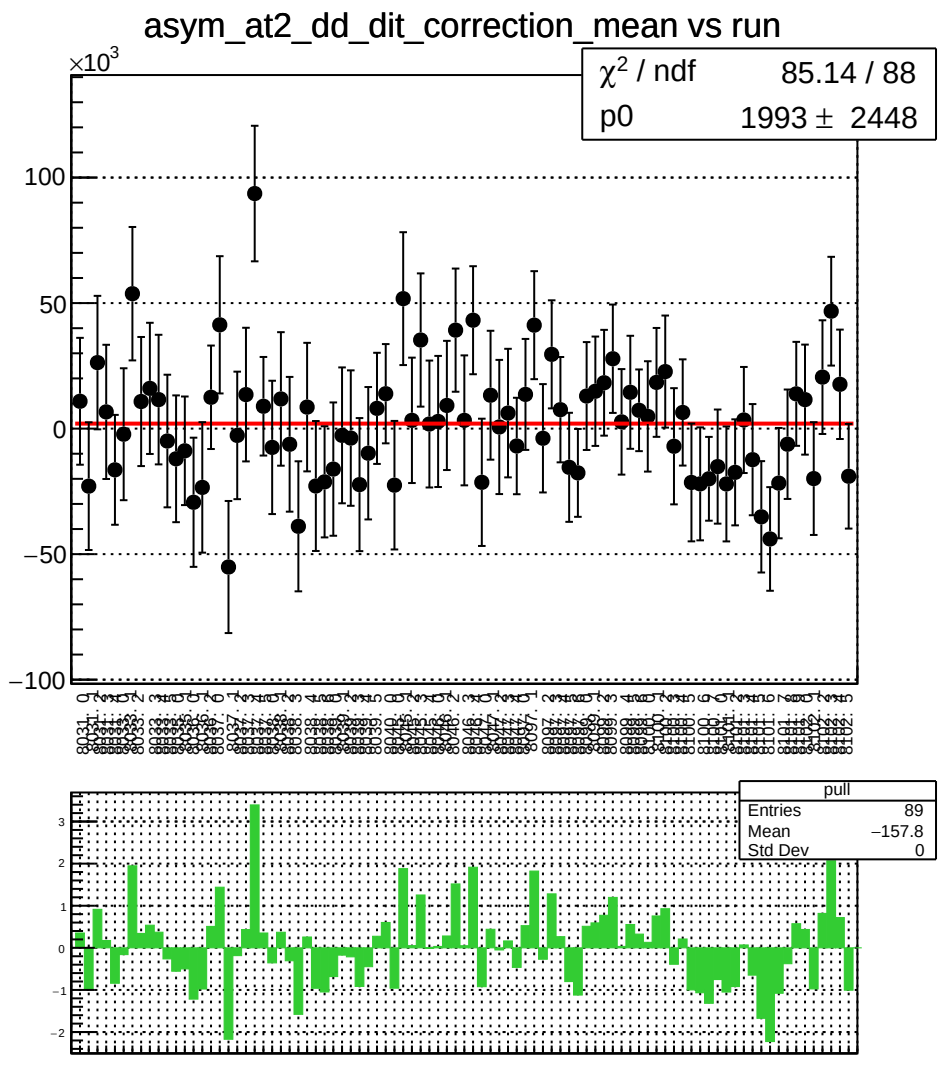

pull1D
Entries 89
Mean 0.01001
Std Dev 0.9809
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

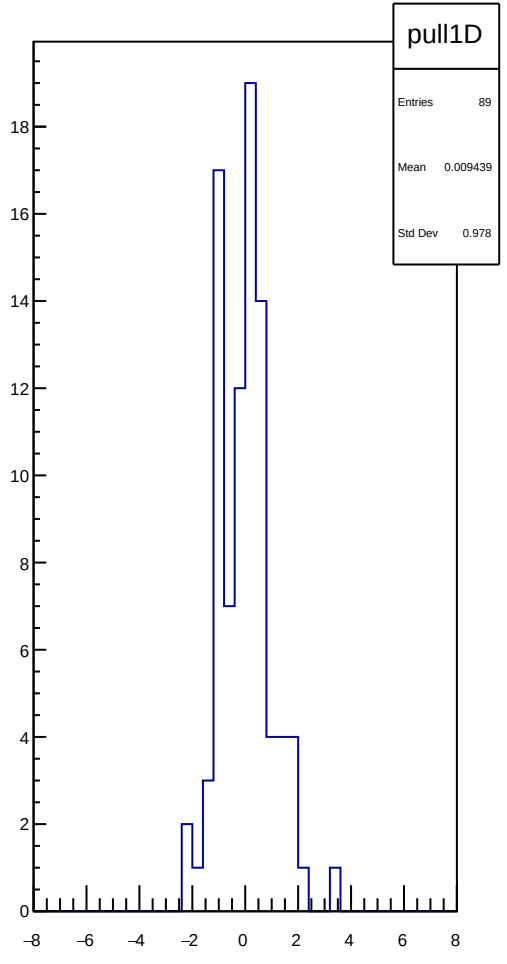

asym_at2_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.024e+04 / 88
p0 2295 ± 1.746
2800
2700
2600
2500
2400
2300
2200
2100
2000
1900

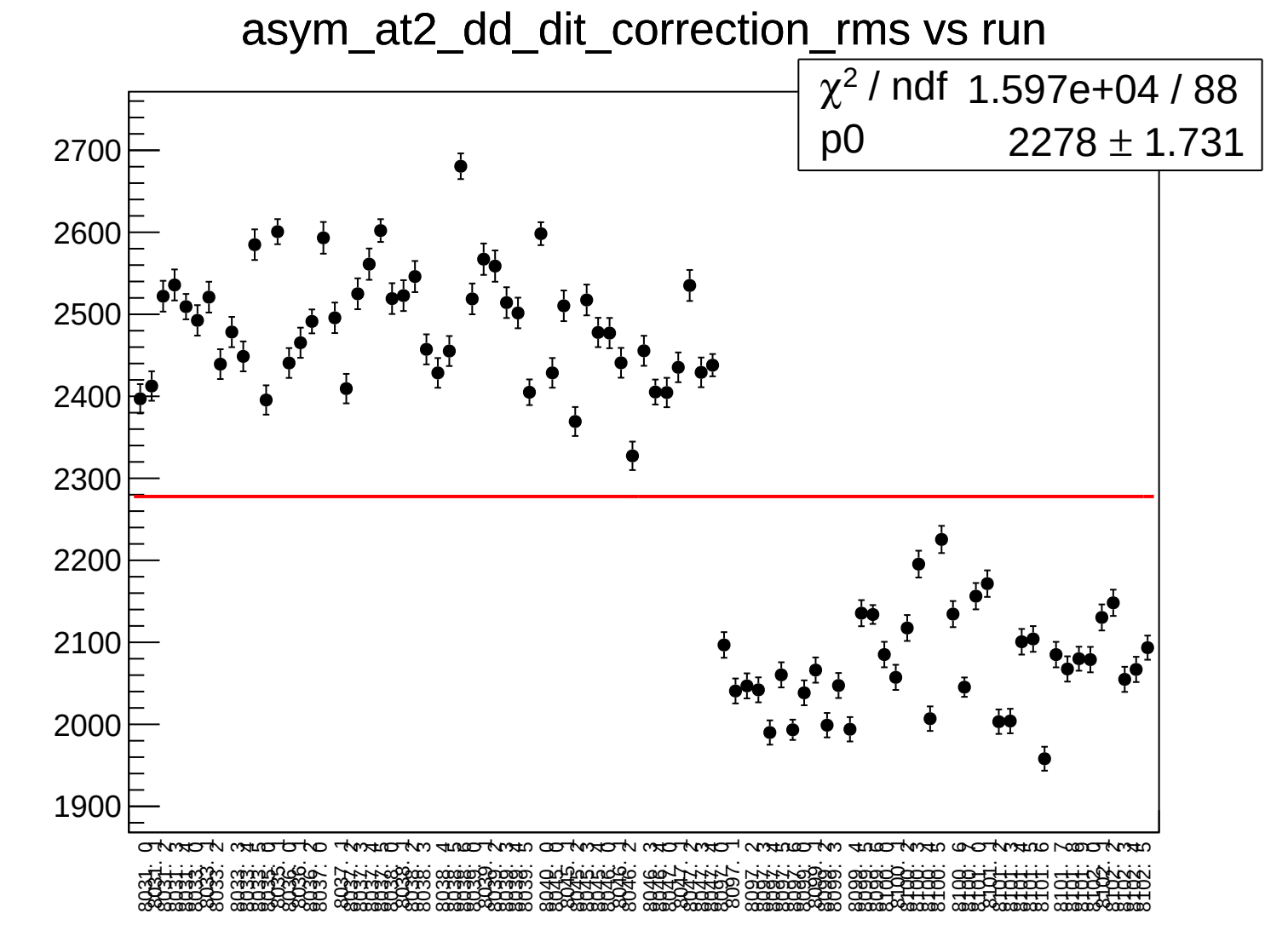

dit_asym_at2_dd_mean vs run
χ² / ndf 115.1 / 88
p0 −942.6 ± 1790
pull
Entries 89
Mean −83.56
Std Dev 0

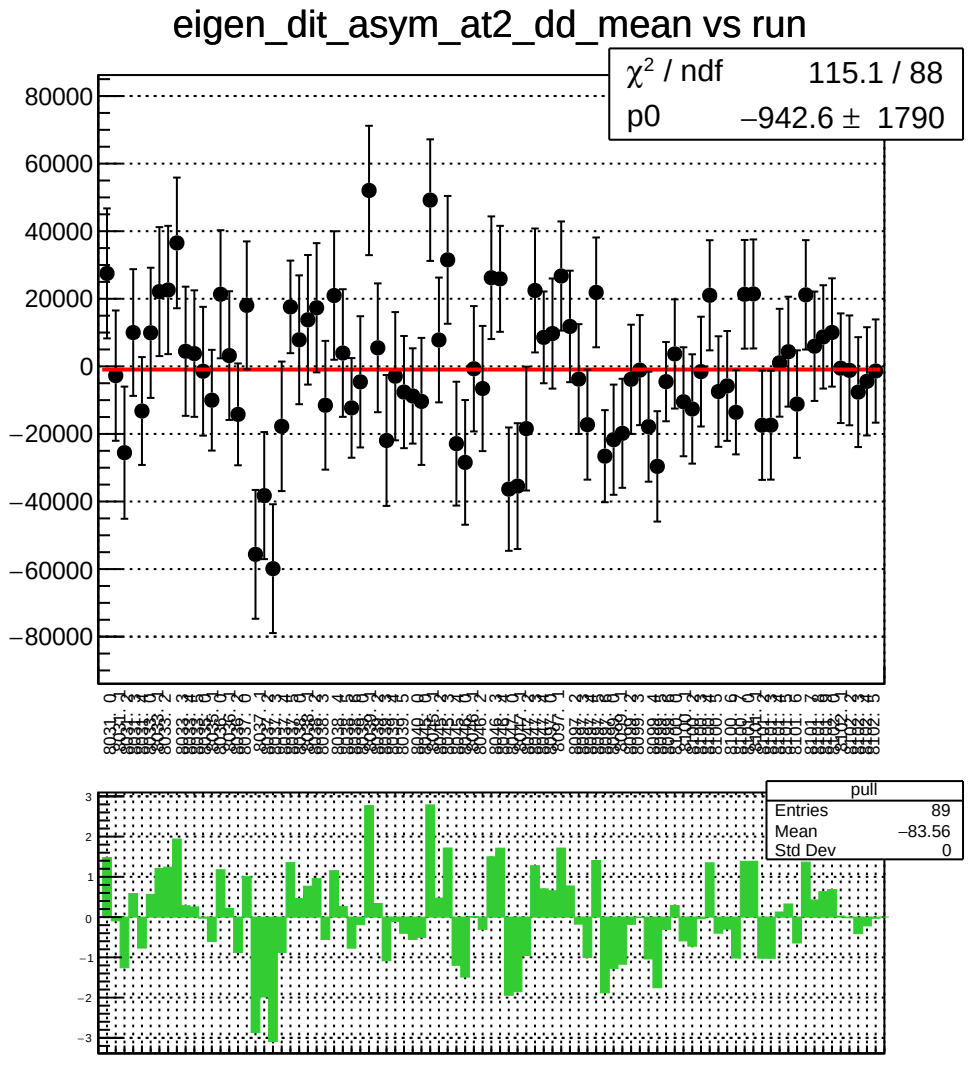

pull1D
Entries 89
Mean 0.01287
Std Dev 1.137

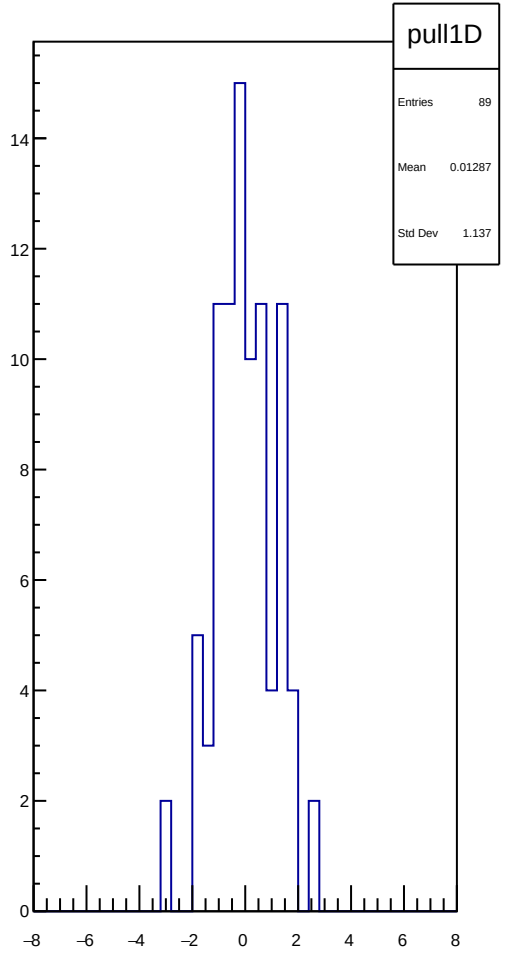

dit_asym_at2_dd_rms vs run
χ² / ndf 1.08e+04 / 88
p0 1668 ± 1.266
1900
1850
1800
1750
1700
1650
1600
1550
1500

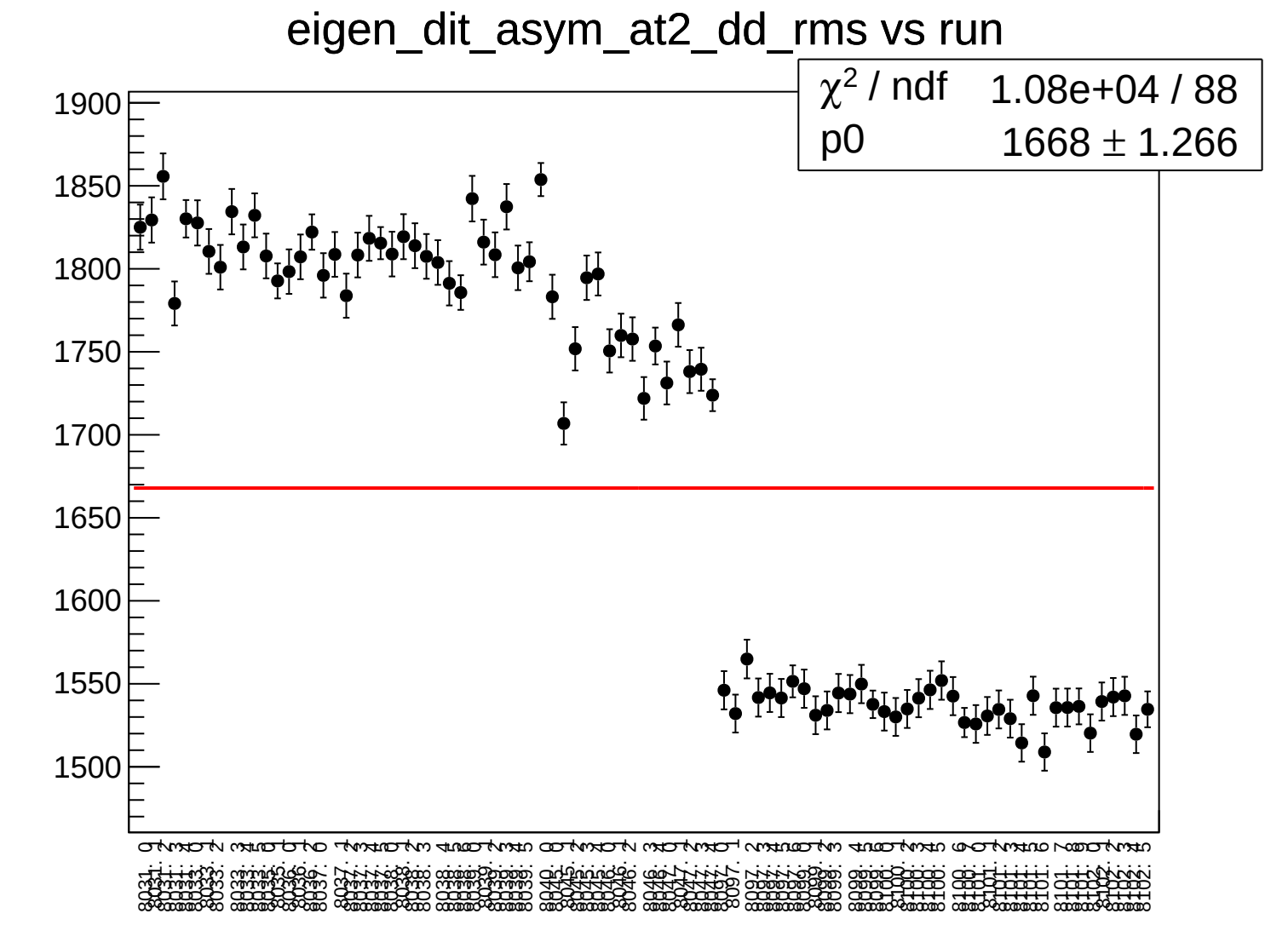

asym_at2_dd_dit_correction_mean vs run
χ² / ndf 85.14 / 88
p0 1993 ± 2448
×10³
100
50
0
−50
−100
pull
Entries 89
Mean −157.8
Std Dev 0
3
2
1
0
−1
−2

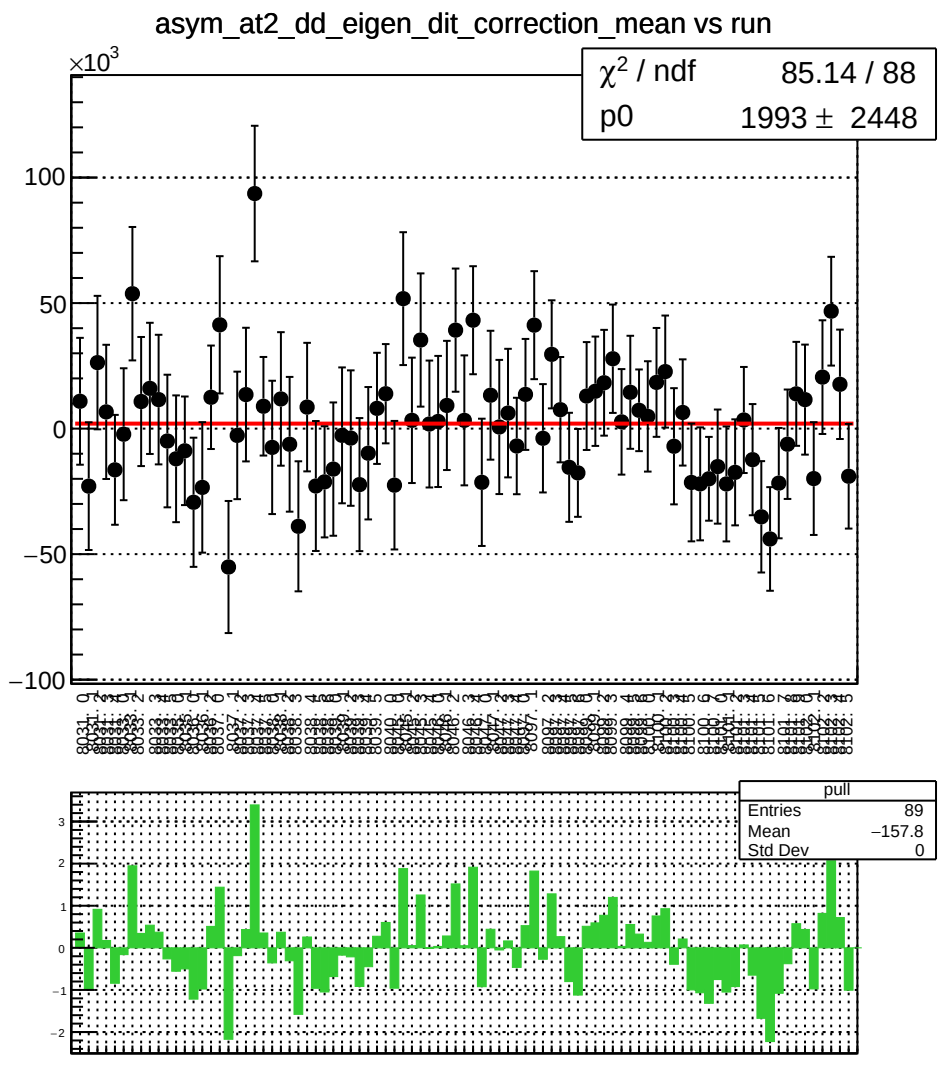

pull1D
Entries 89
Mean 0.009439
Std Dev 0.978
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

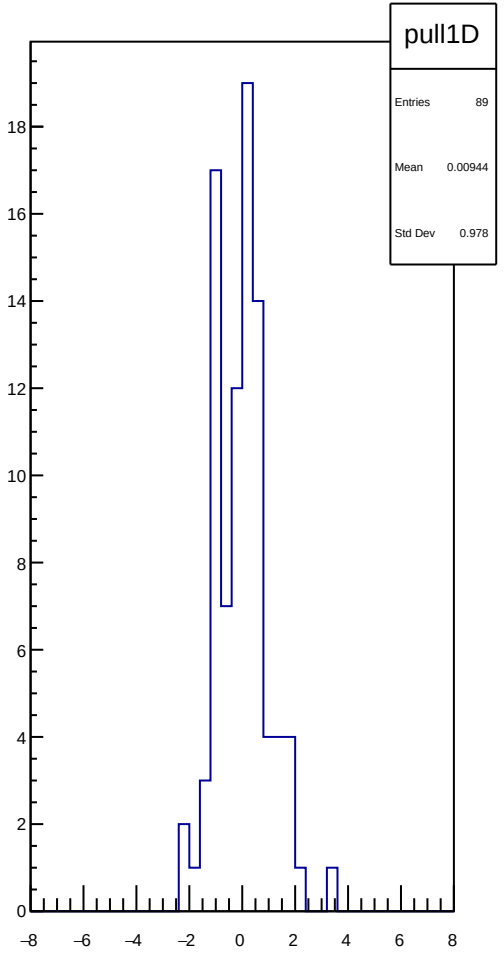

asym_at2_dd_dit_correction_rms vs run
χ² / ndf 1.597e+04 / 88
p0 2278 ± 1.731
2700
2600
2500
2400
2300
2200
2100
2000
1900

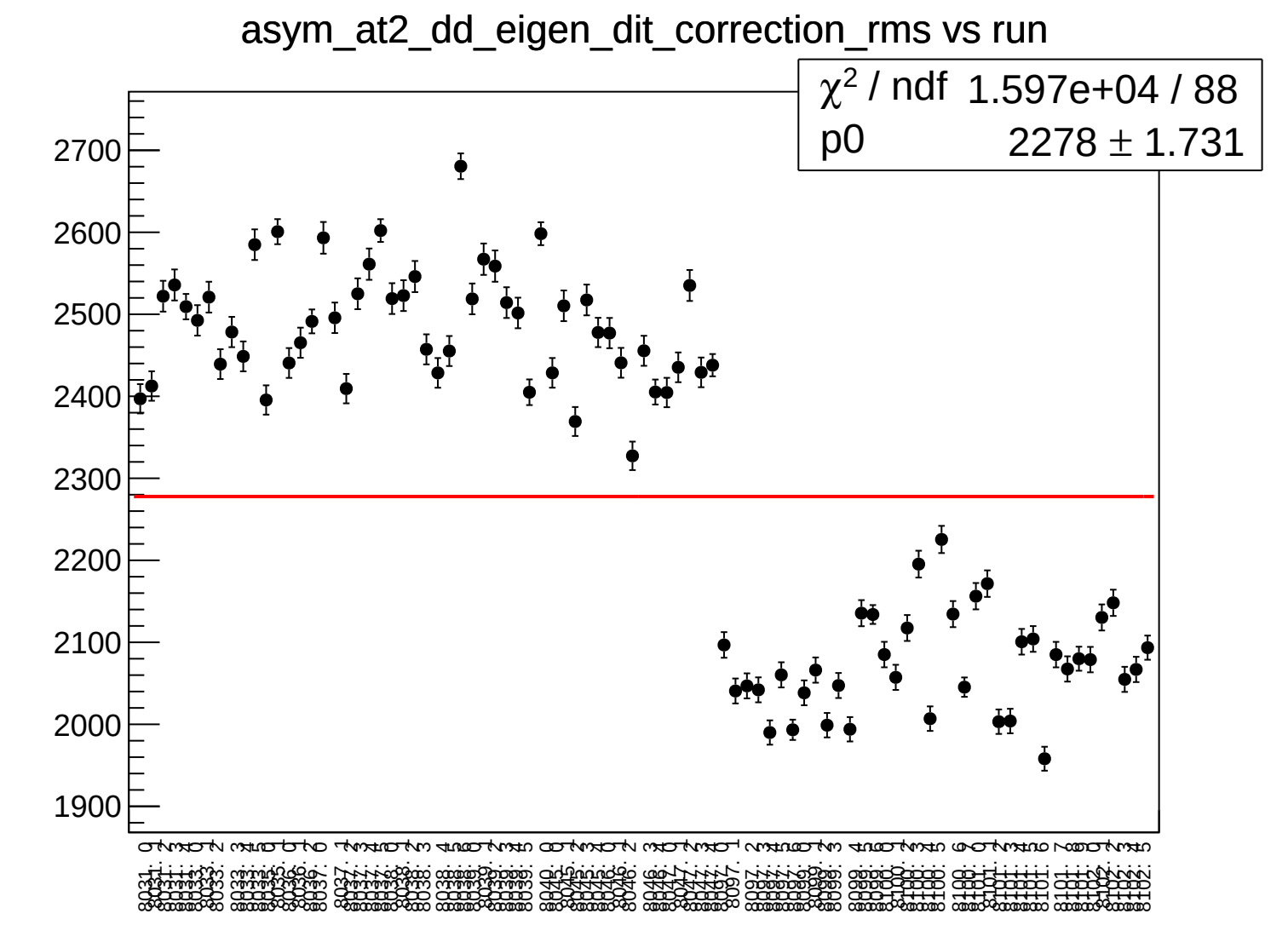

eigen_dit_asym_at2_dd_mean vs run
χ² / ndf 115.1 / 88
p0 −942.6 ± 1790
pull
Entries 89
Mean −83.56
Std Dev 0

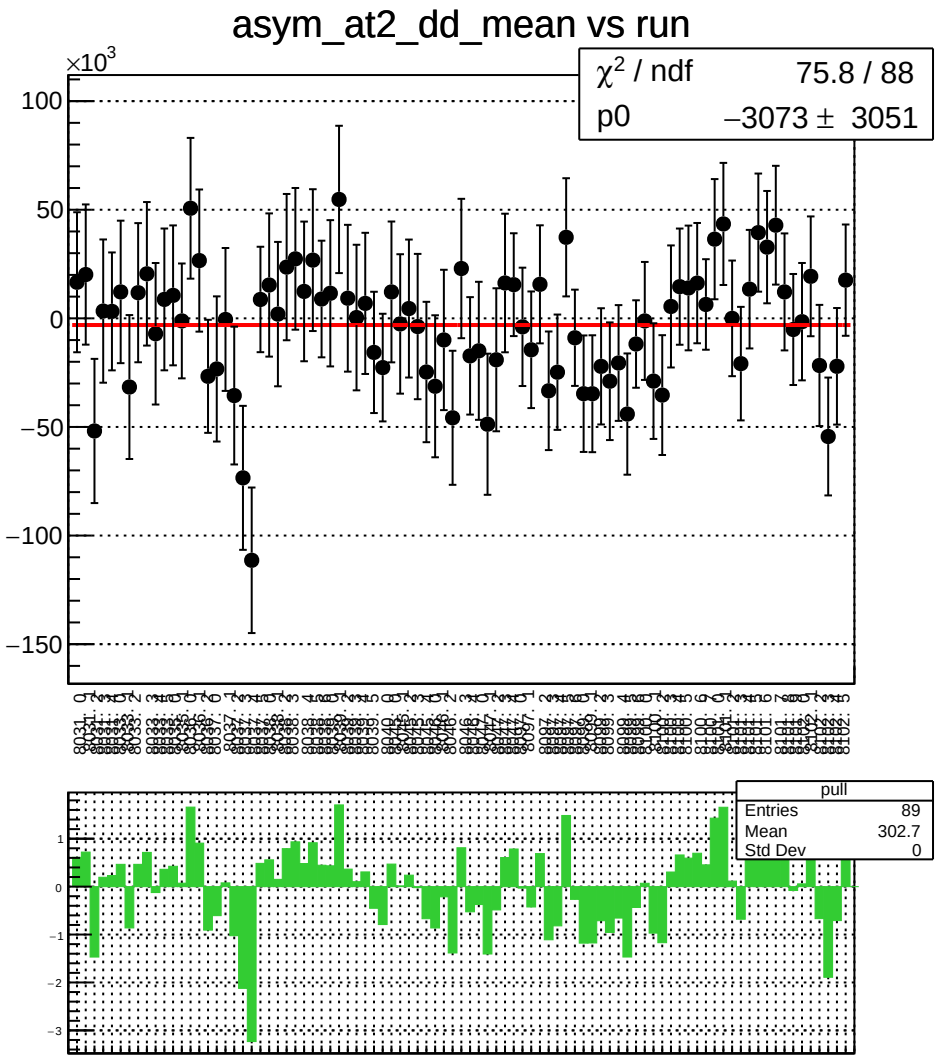

pull1D
Entries 89
Mean 0.01287
Std Dev 1.137

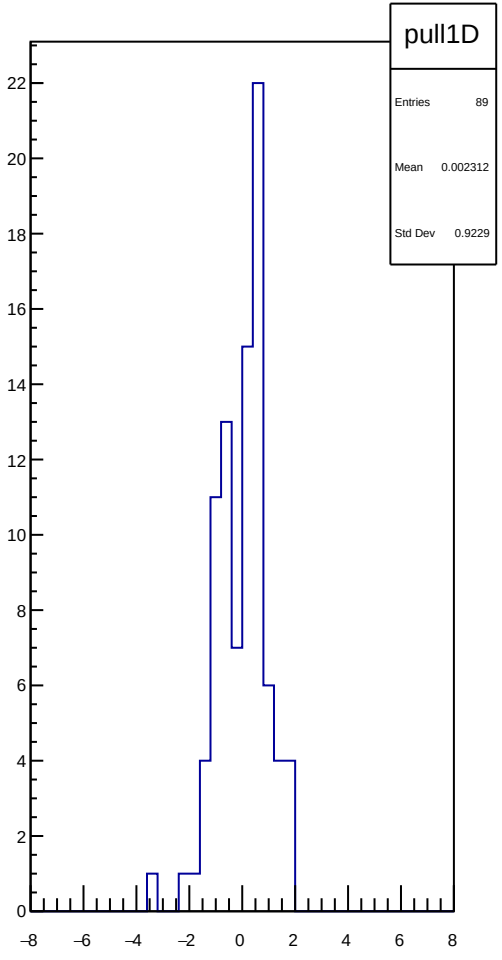

eigen_dit_asym_at2_dd_rms vs run
$\chi^2$ / ndf 1.08e+04 / 88
p0 1668 ± 1.266
1900
1850
1800
1750
1700
1650
1600
1550
1500

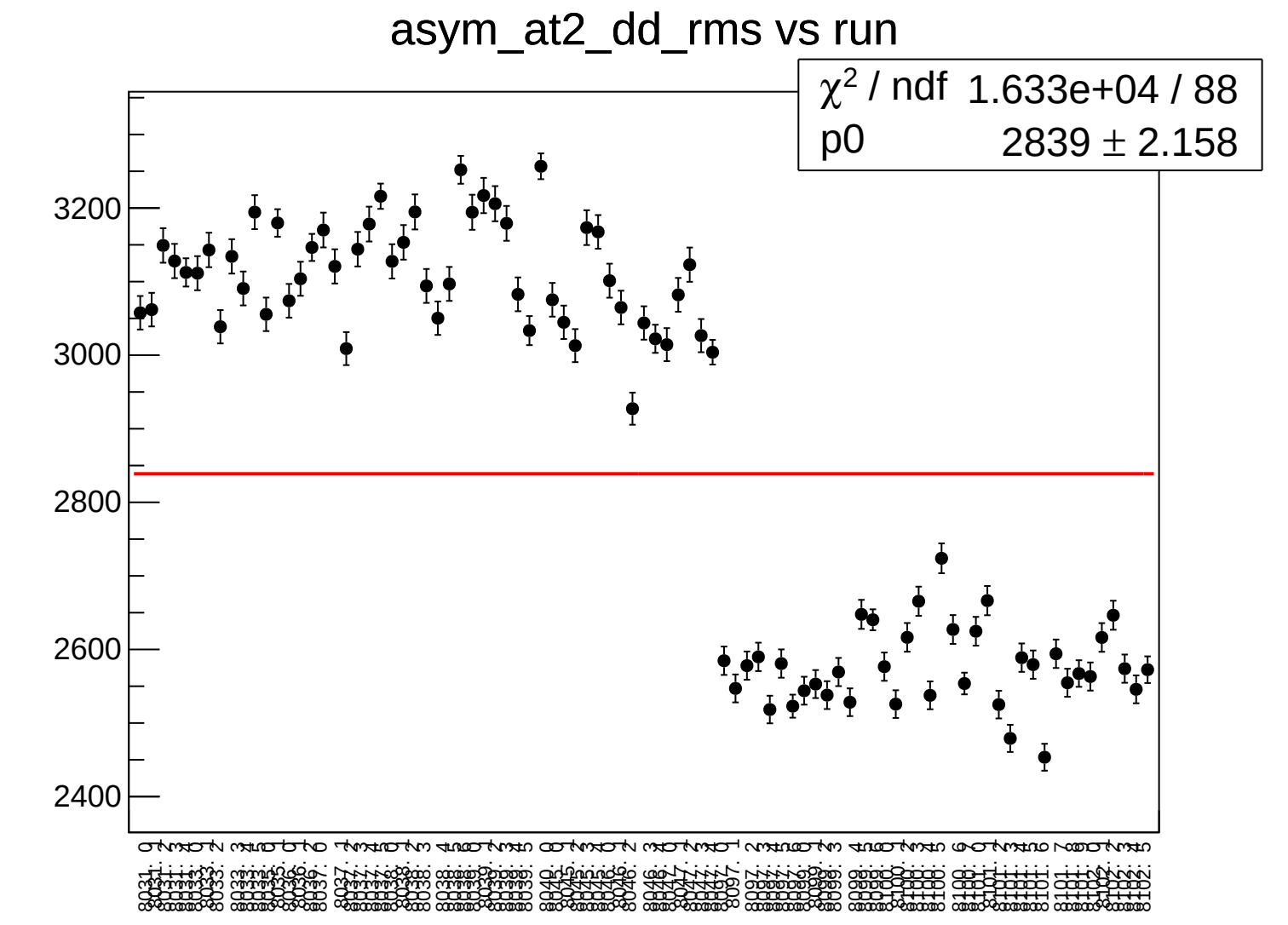

asym_at2_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 85.14 / 88
p0 1993 ± 2448
100
50
0
−50
−100
pull
Entries 89
Mean −157.8
Std Dev 0
3
2
1
0
−1
−2

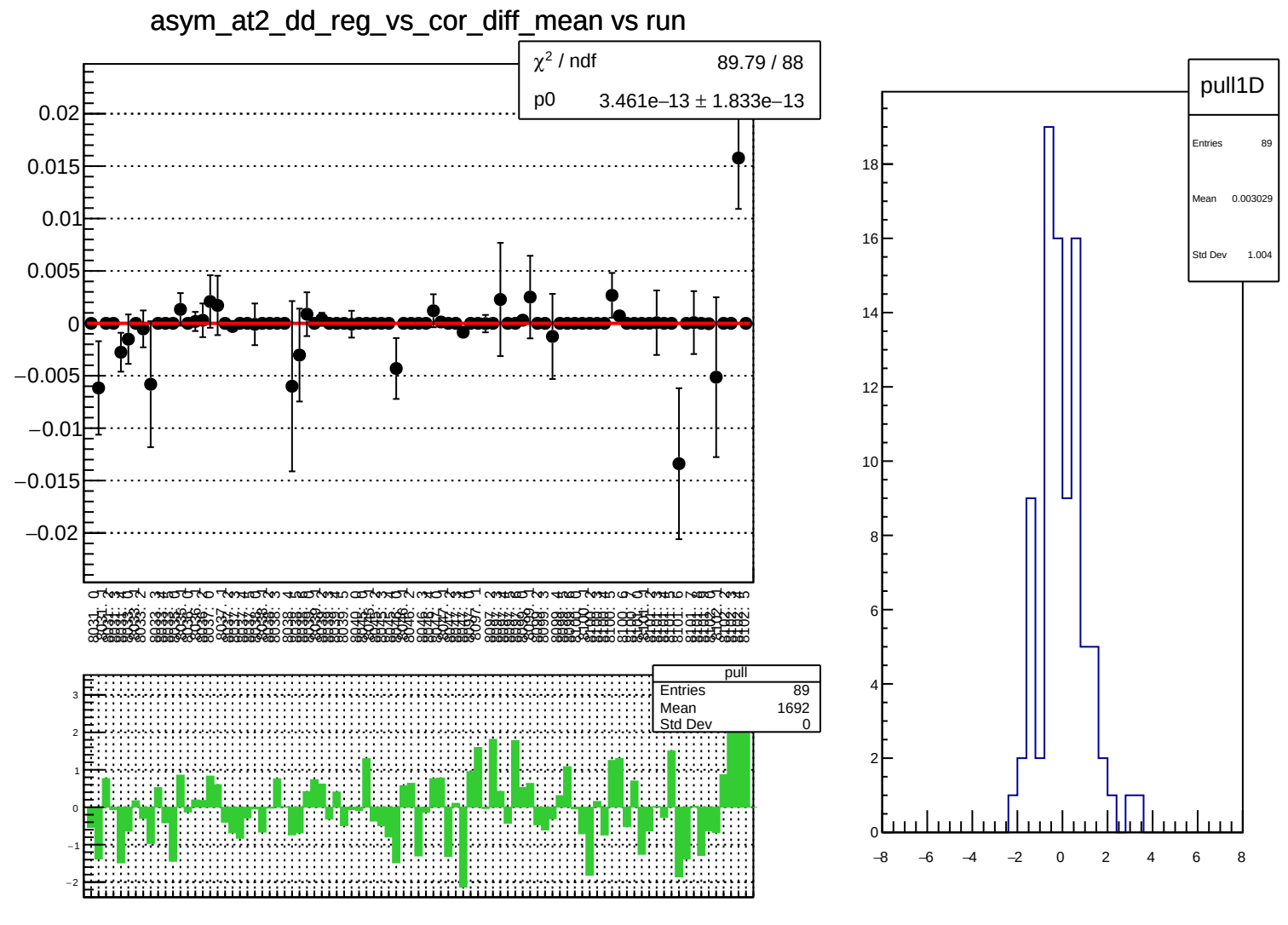

pull1D
Entries 89
Mean 0.00944
Std Dev 0.978
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

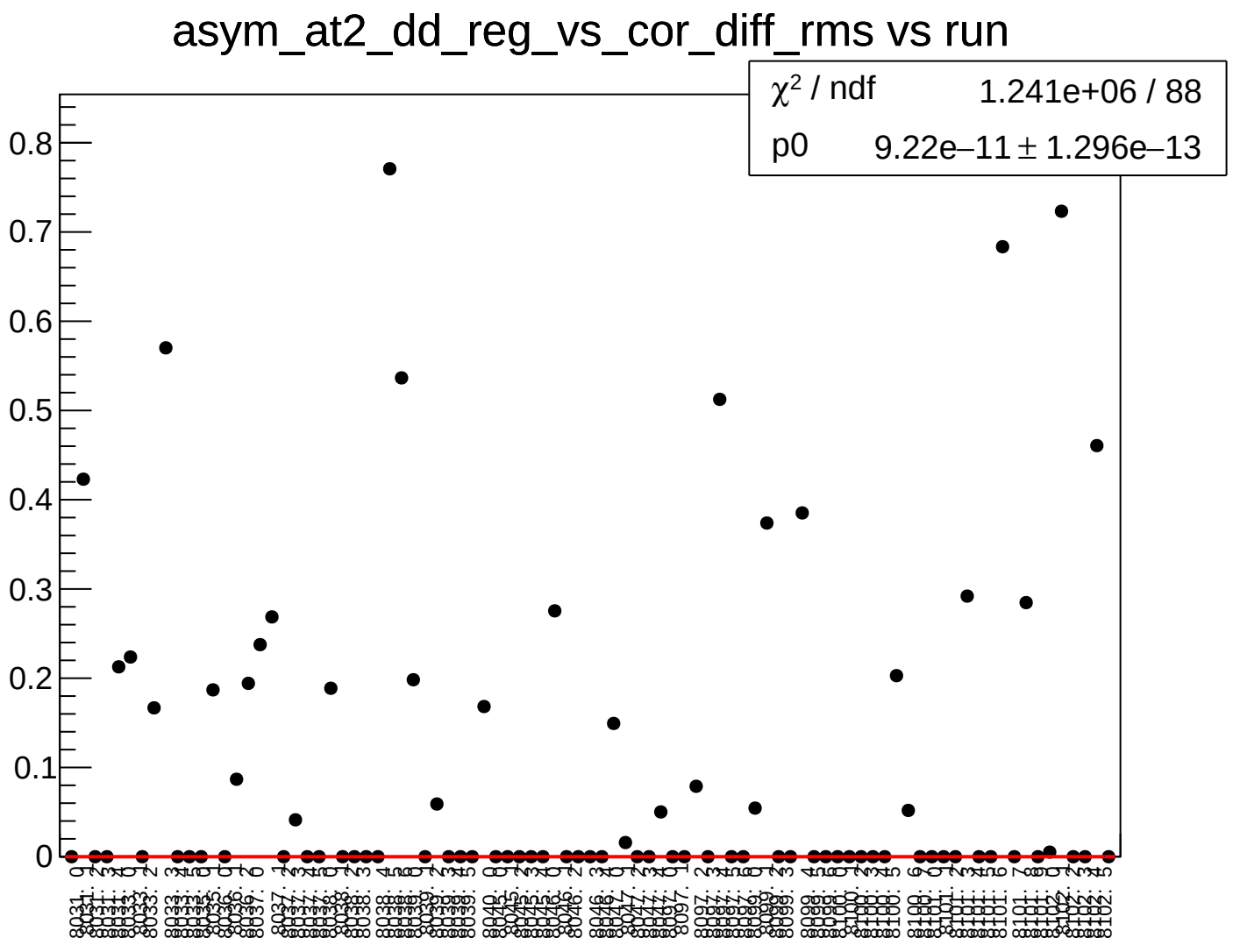

asym_at2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.597e+04 / 88
p0 2278 ± 1.731
2700
2600
2500
2400
2300
2200
2100
2000
1900

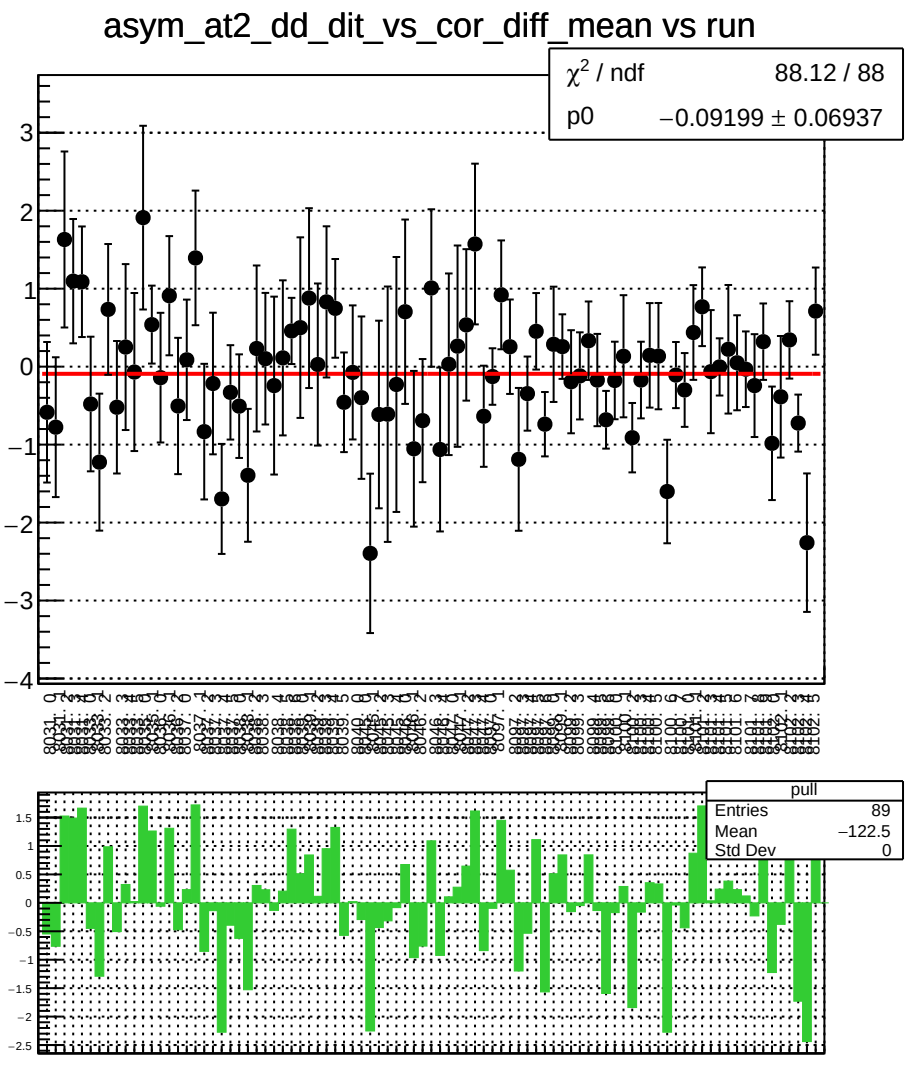

asym_at2_dd_mean vs run
×10^3
χ^2 / ndf 75.8 / 88
p0 −3073 ± 3051
pull
Entries 89
Mean 302.7
Std Dev 0

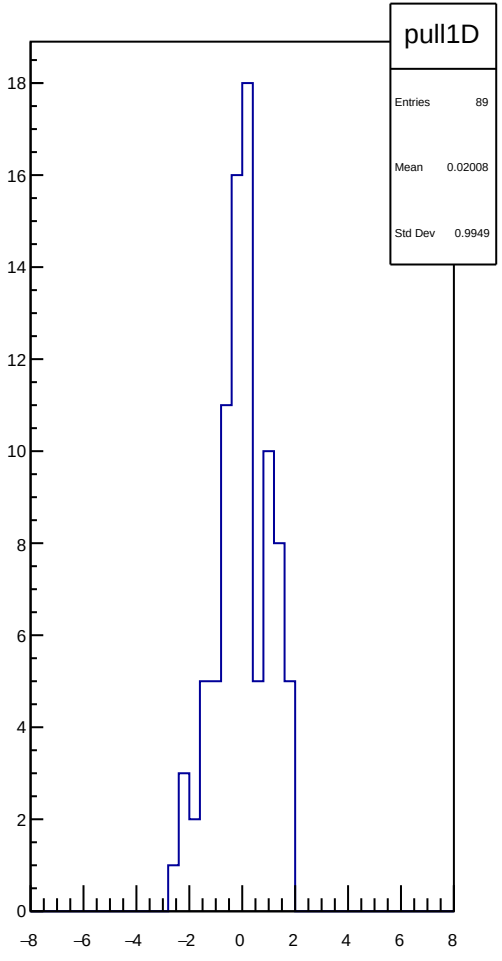

pull1D
Entries 89
Mean 0.002312
Std Dev 0.9229

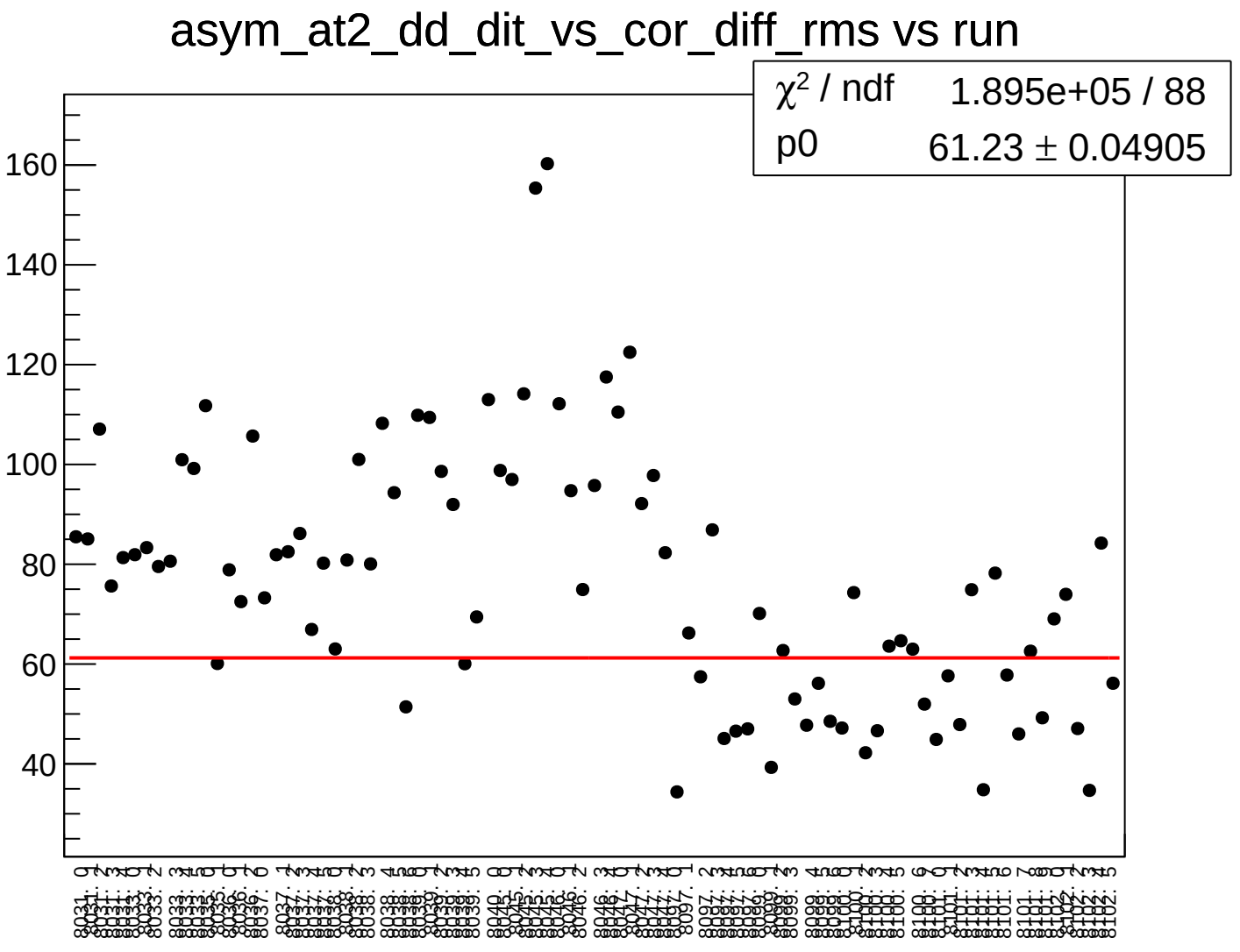

asym_at2_dd_rms vs run
χ² / ndf 1.633e+04 / 88
p0 2839 ± 2.158
3200
3000
2800
2600
2400

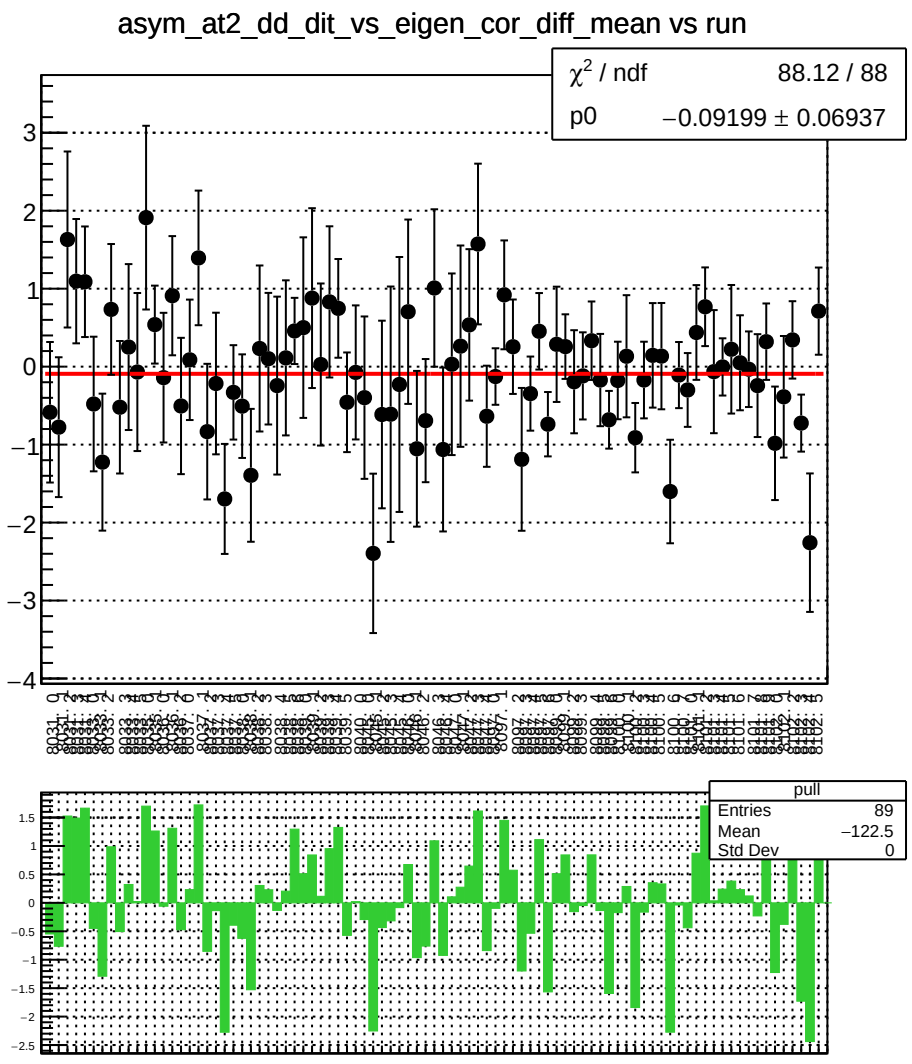

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 89.79 / 88
p0 3.461e−13 ± 1.833e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 89
Mean 1692
Std Dev 0
pull1D
Entries 89
Mean 0.003029
Std Dev 1.004
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

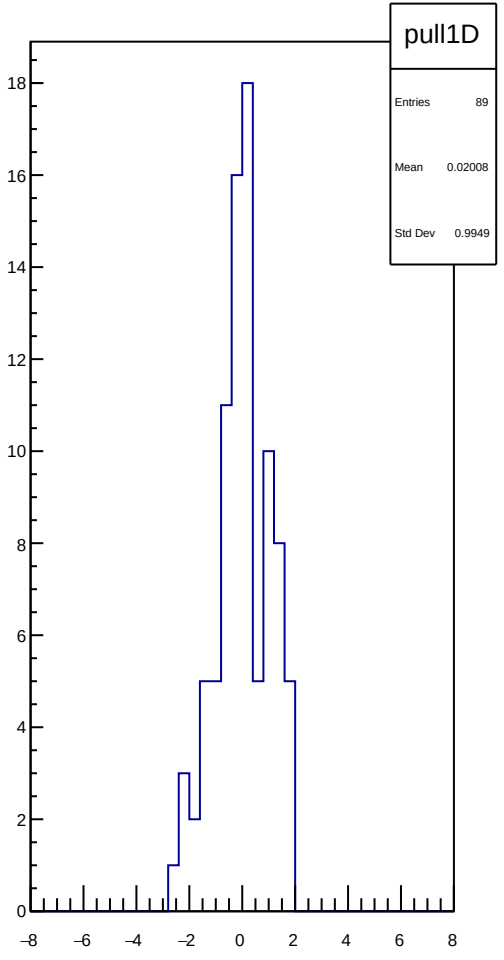

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.241e+06 / 88
p0 9.22e−11 ± 1.296e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

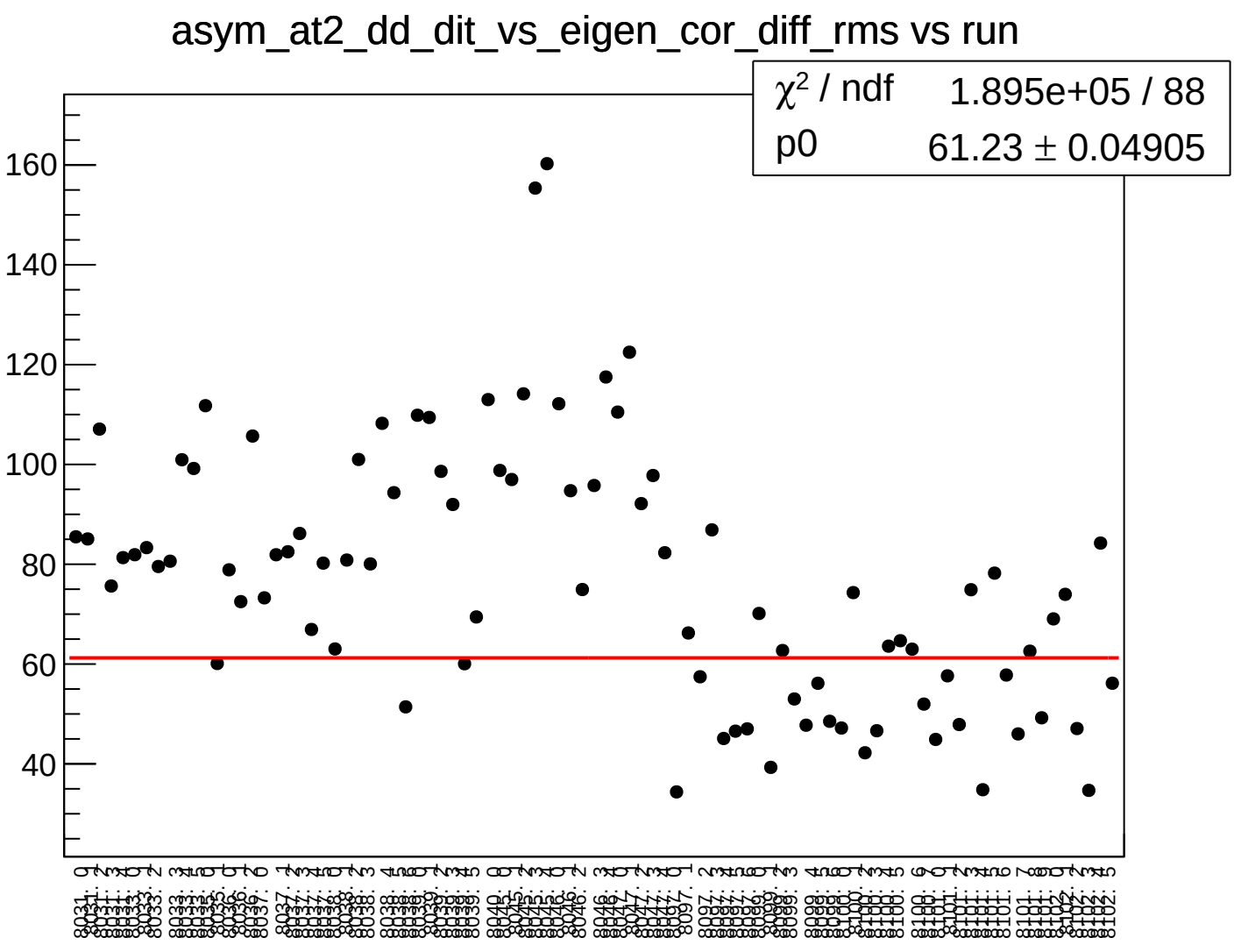

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 88.12 / 88
p0 −0.09199 ± 0.06937
pull
Entries 89
Mean −122.5
Std Dev 0

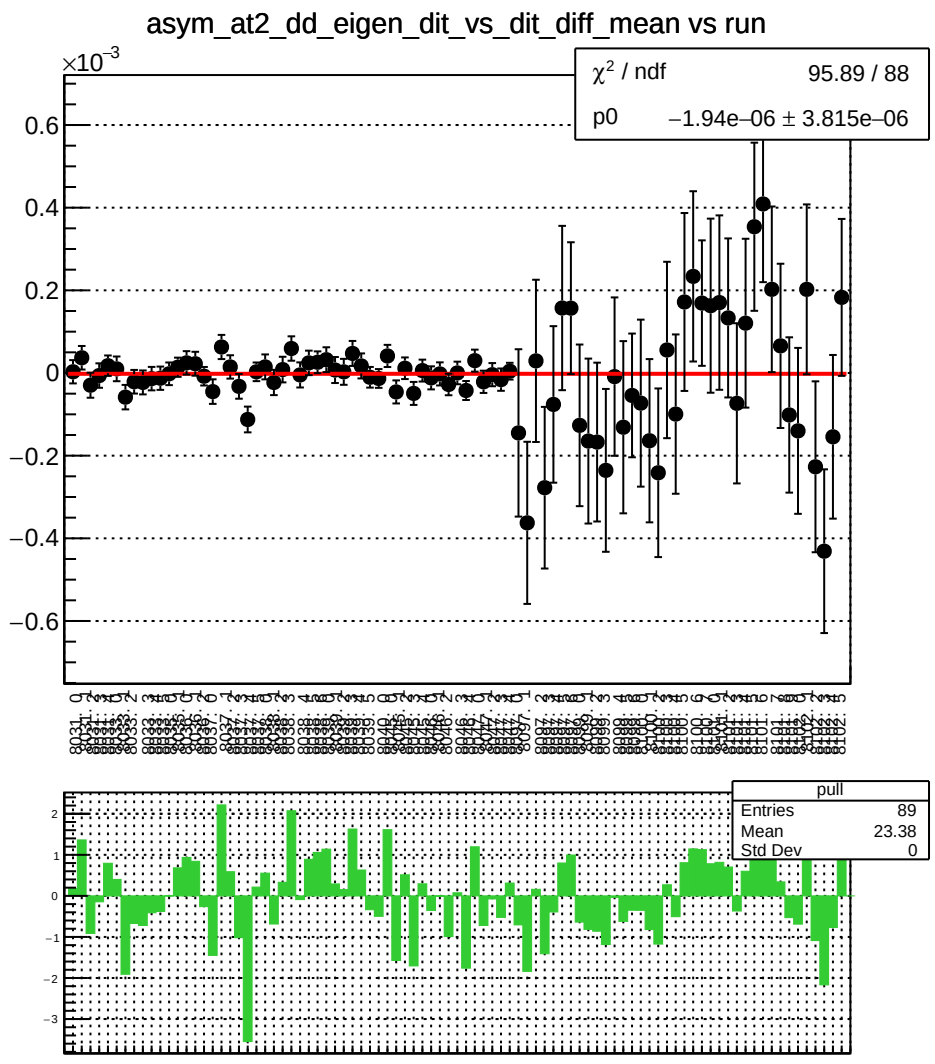

pull1D
Entries 89
Mean 0.02008
Std Dev 0.9949

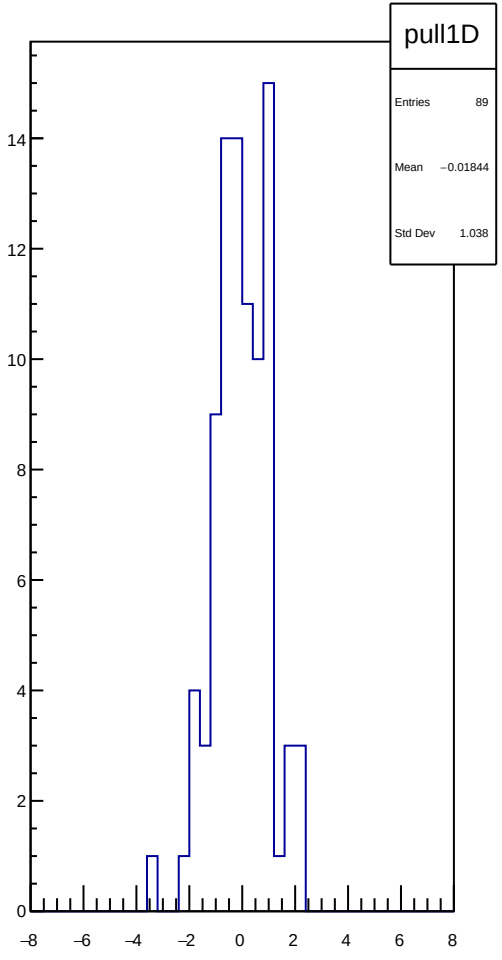

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.895e+05 / 88
p0 61.23 ± 0.04905
160
140
120
100
80
60
40

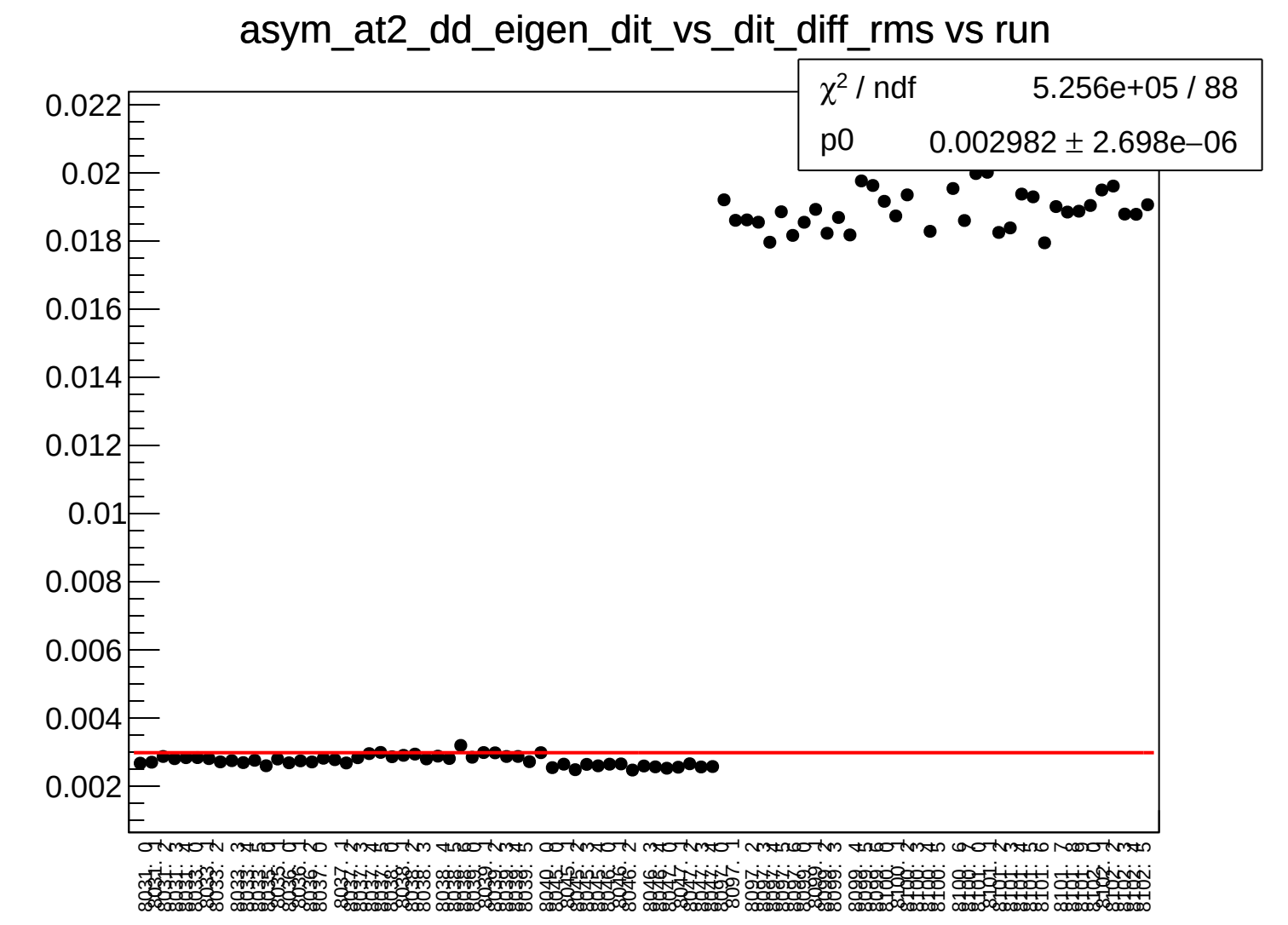

asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.12 / 88
p0 −0.09199 ± 0.06937
pull
Entries 89
Mean −122.5
Std Dev 0

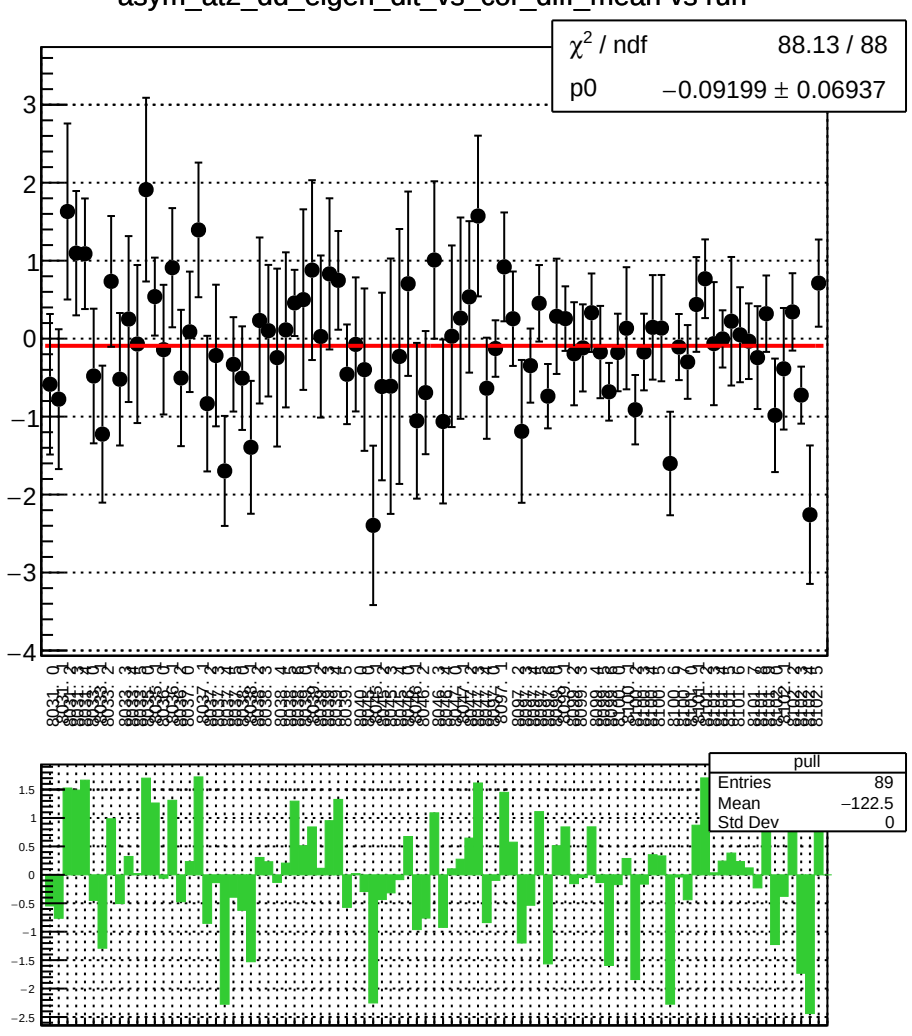

pull1D
Entries 89
Mean 0.02008
Std Dev 0.9949

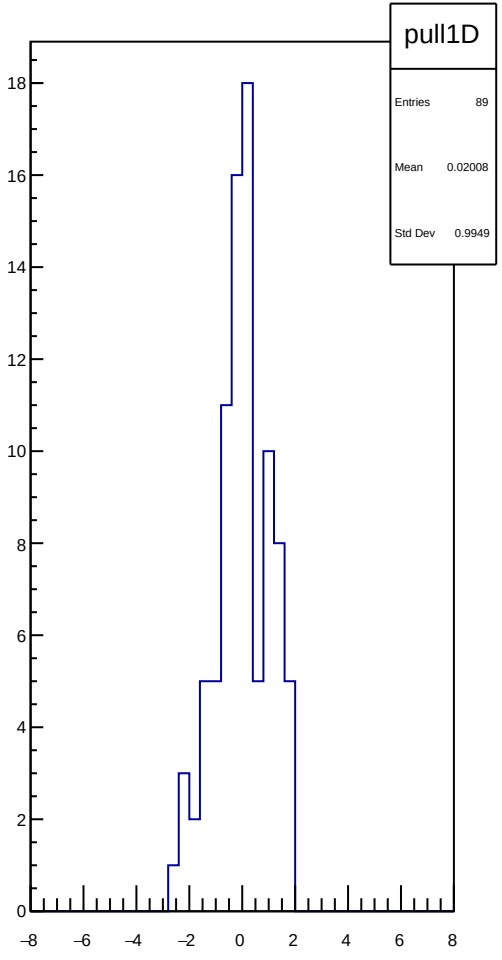

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.895e+05 / 88
p0 61.23 ± 0.04905
160
140
120
100
80
60
40

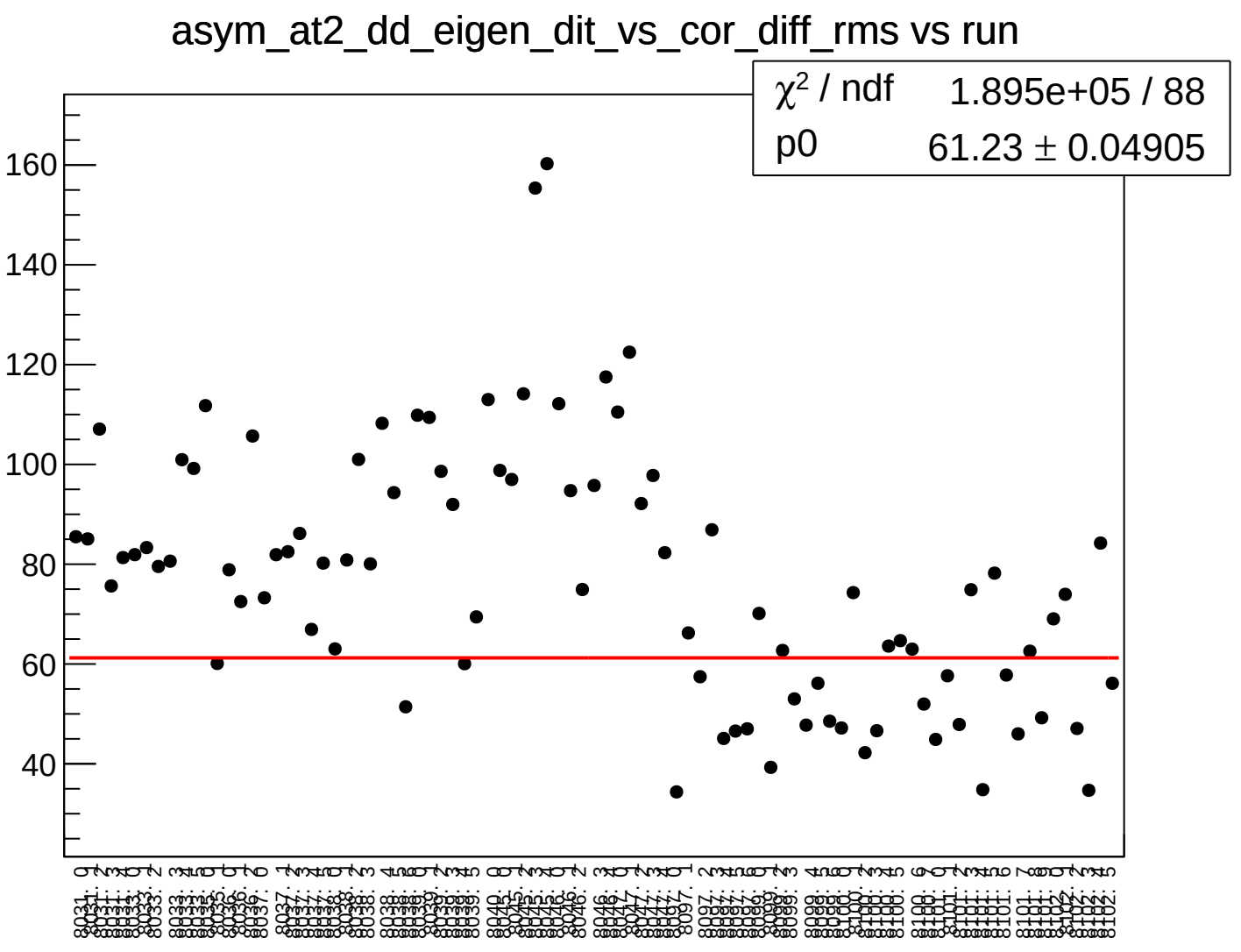

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 95.89 / 88
p0 −1.94e−06 ± 3.815e−06
pull
Entries 89
Mean 23.38
Std Dev 0

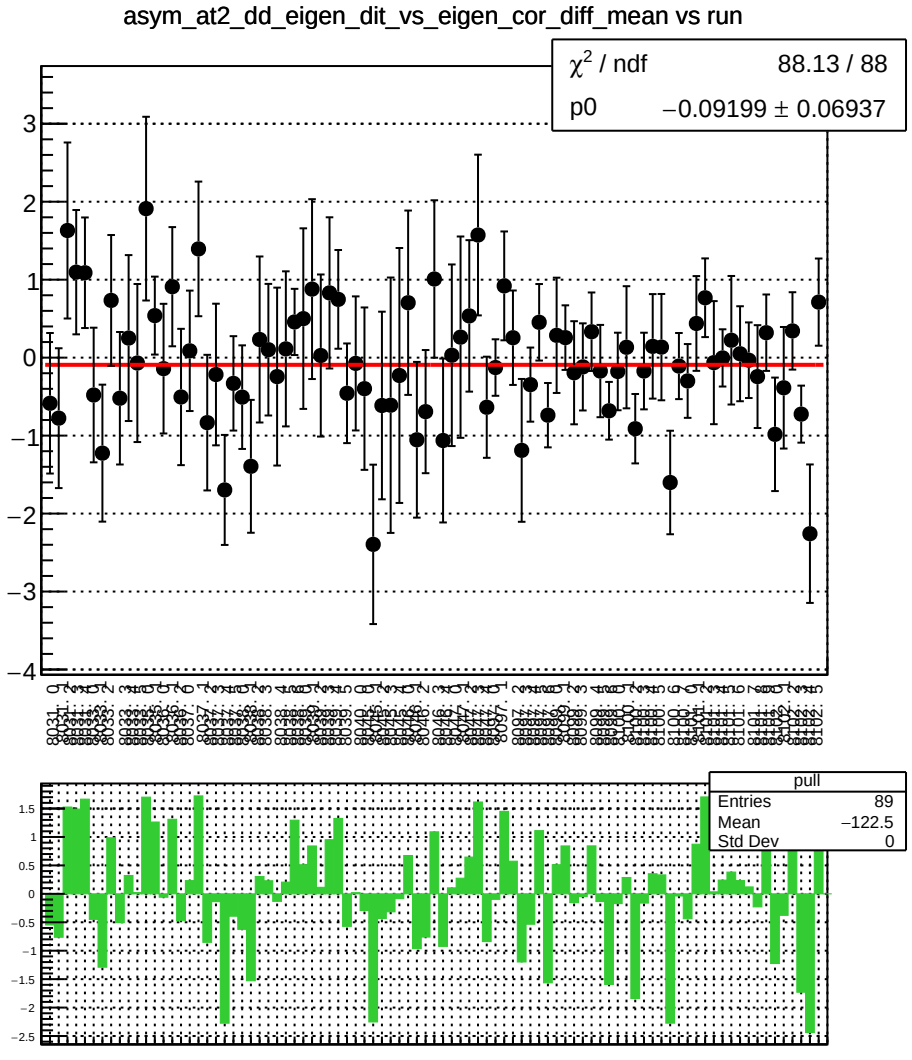

pull1D
Entries 89
Mean −0.01844
Std Dev 1.038

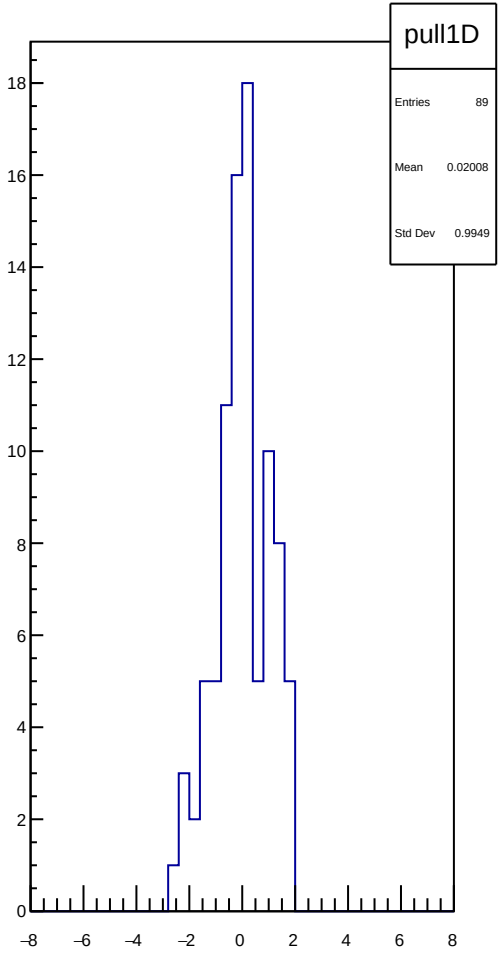

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.256e+05 / 88
p0 0.002982 ± 2.698e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

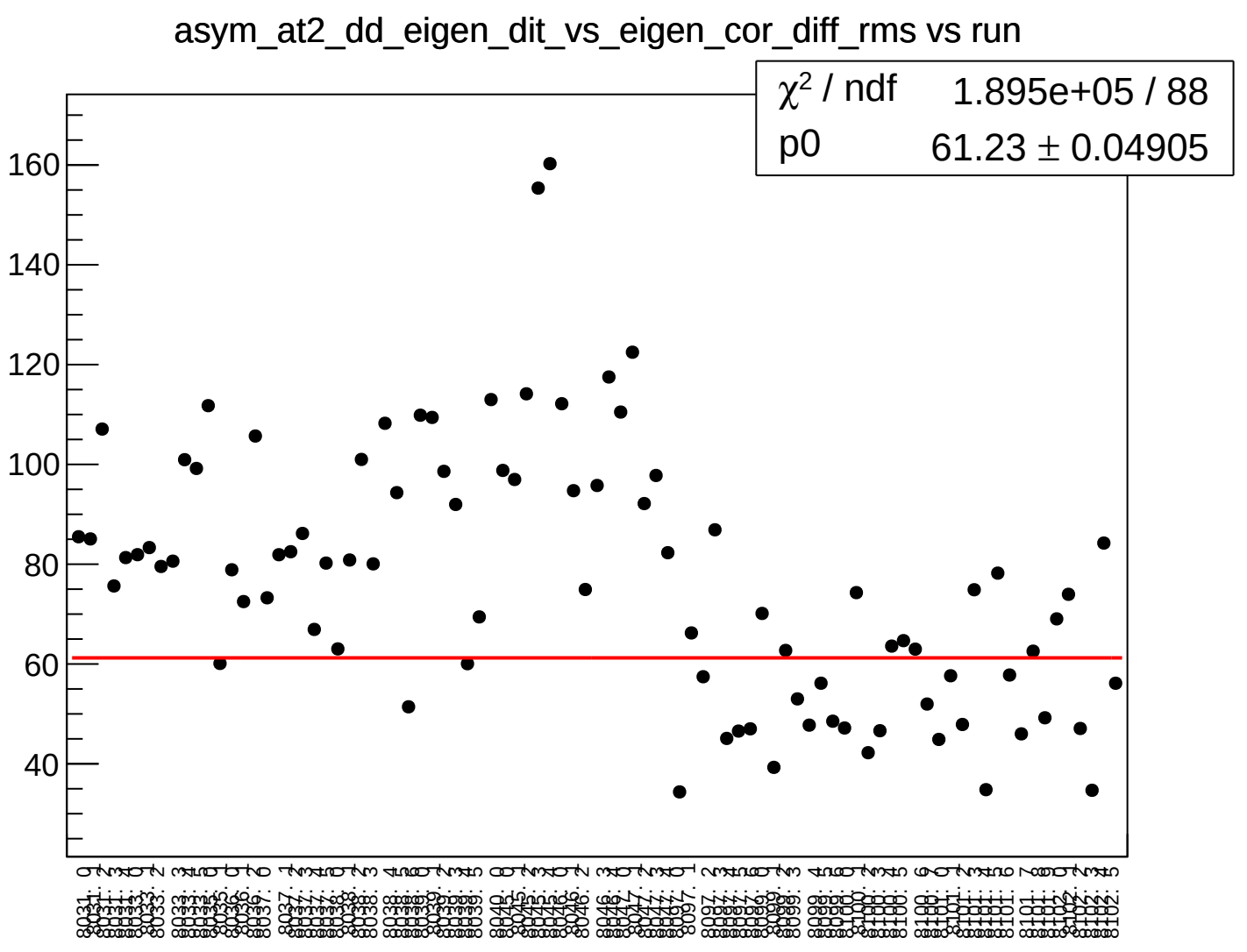

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.13 / 88
p0 −0.09199 ± 0.06937
pull
Entries 89
Mean −122.5
Std Dev 0

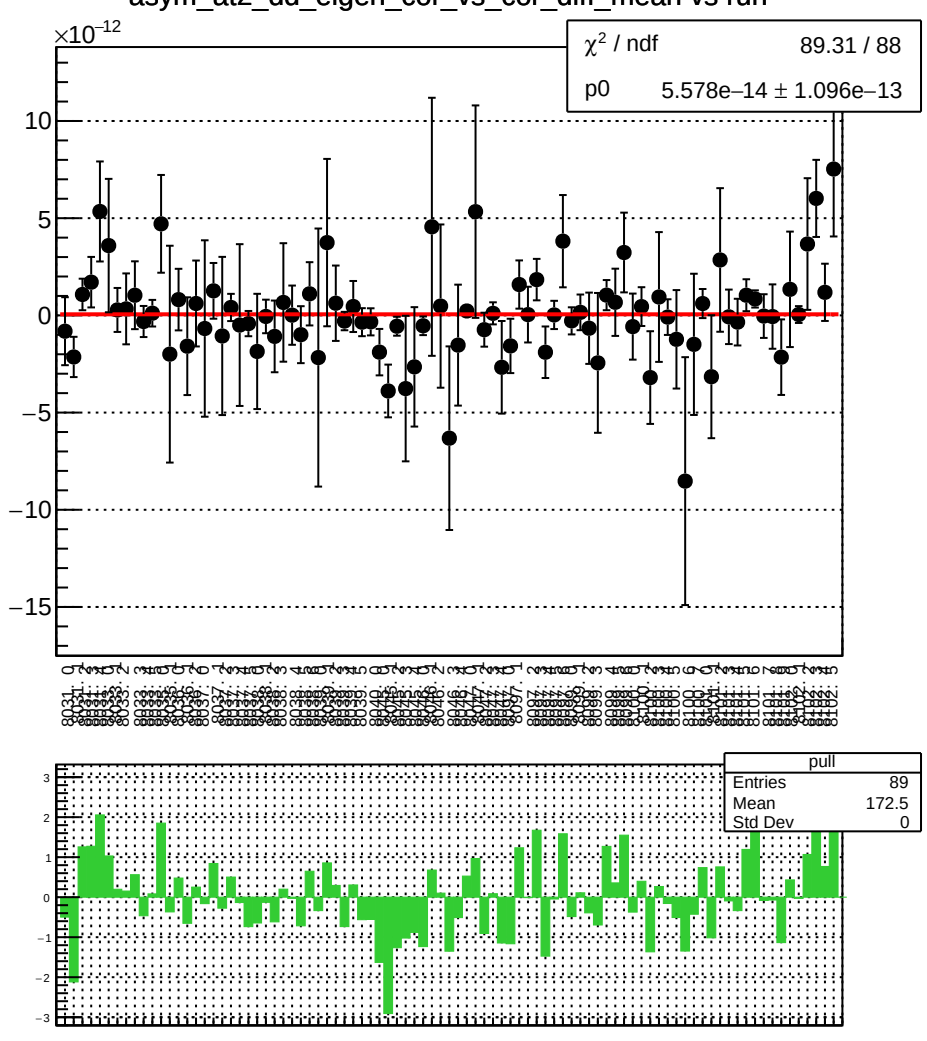

pull1D
Entries 89
Mean 0.02008
Std Dev 0.9949

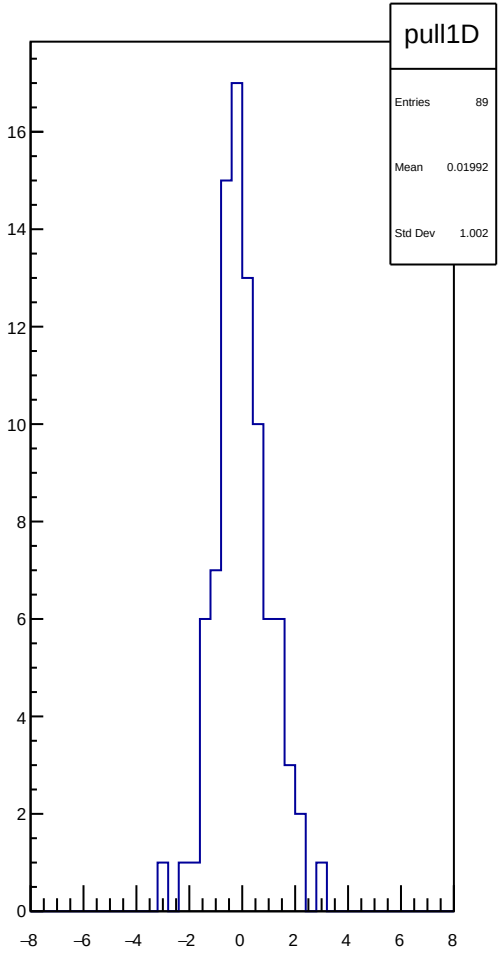

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.895e+05 / 88
p0 61.23 ± 0.04905
160
140
120
100
80
60
40

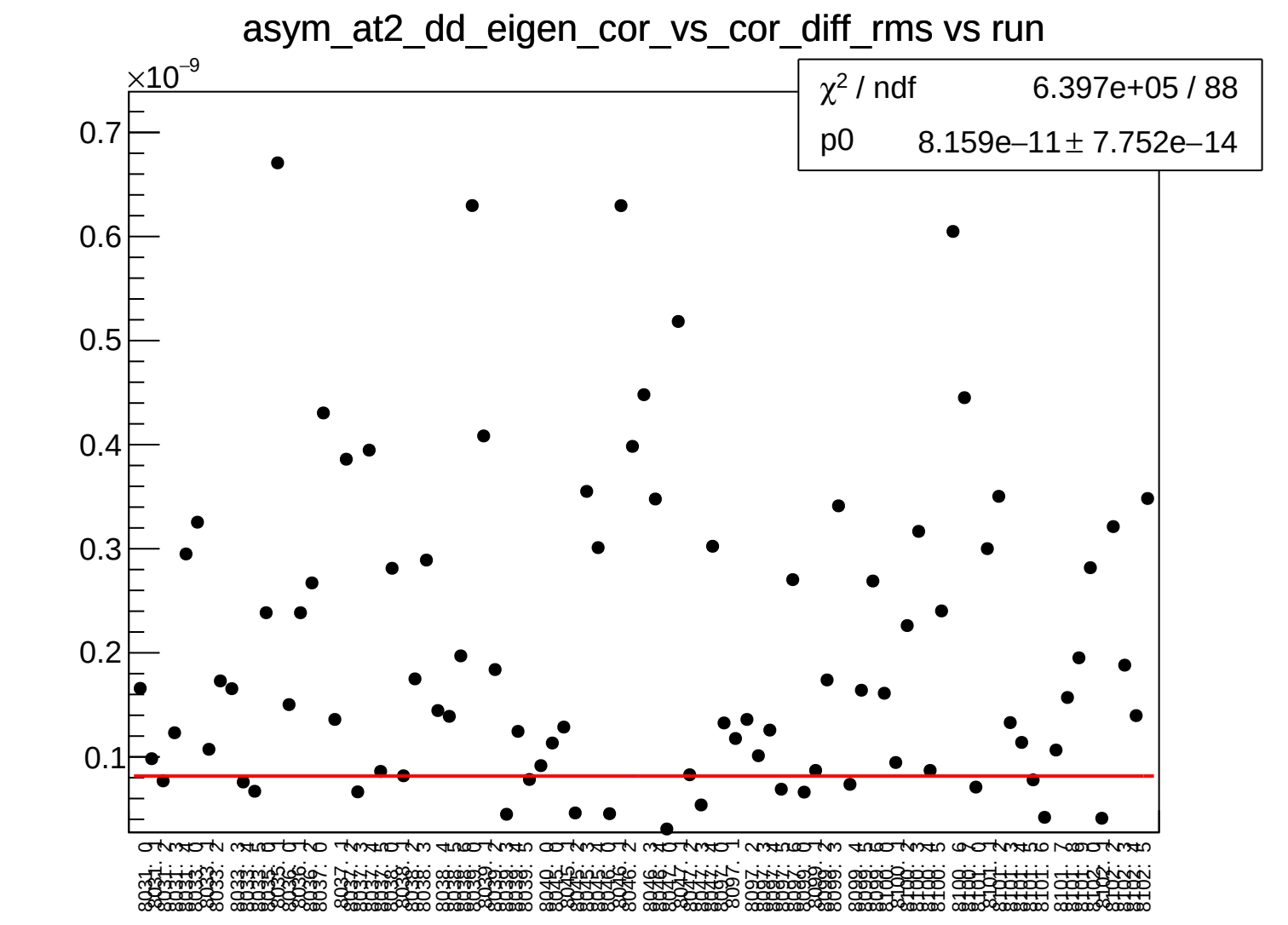

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.13 / 88
p0 −0.09199 ± 0.06937
pull
Entries 89
Mean −122.5
Std Dev 0

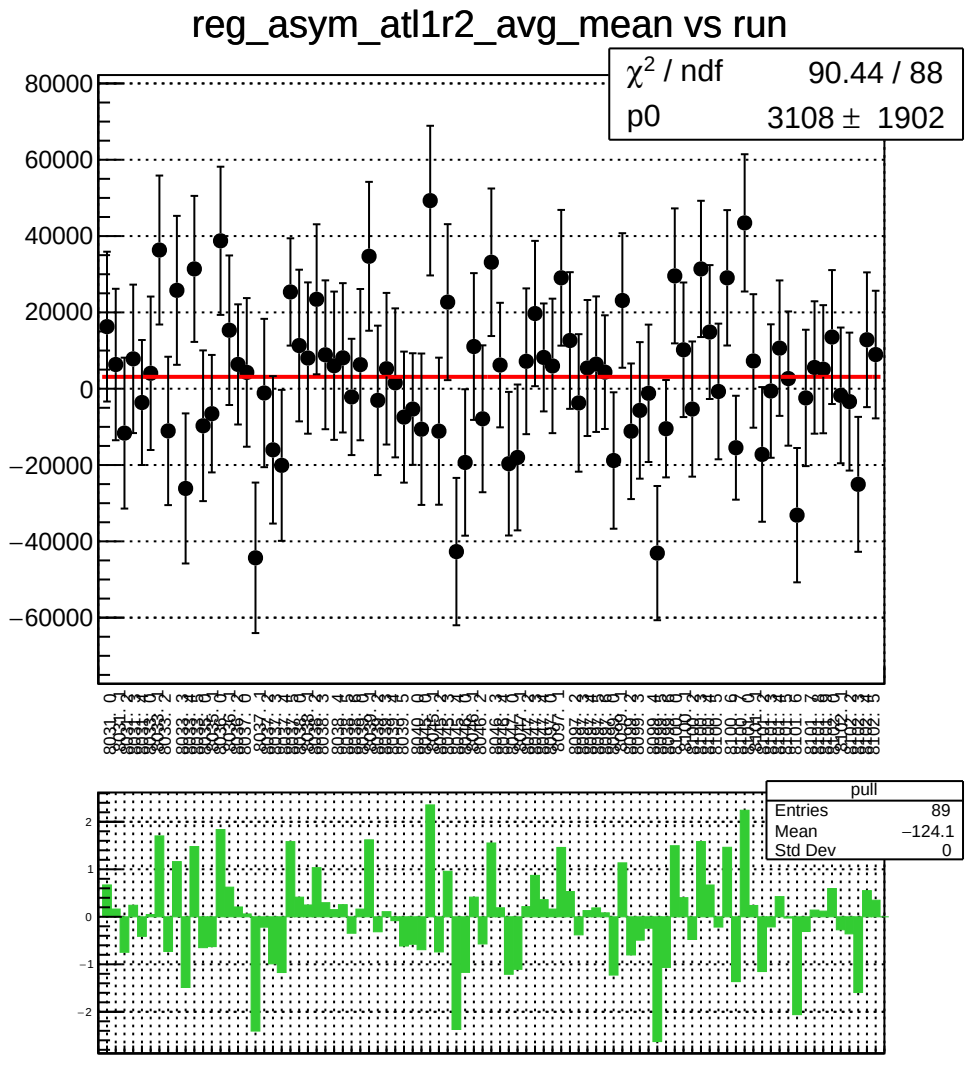

pull1D
Entries 89
Mean 0.02008
Std Dev 0.9949

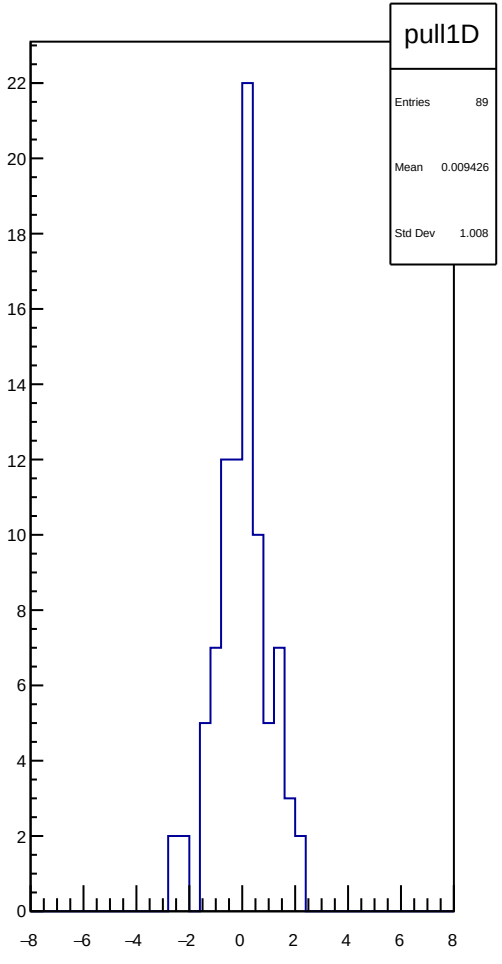

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.895e+05 / 88
p0 61.23 ± 0.04905
160
140
120
100
80
60
40

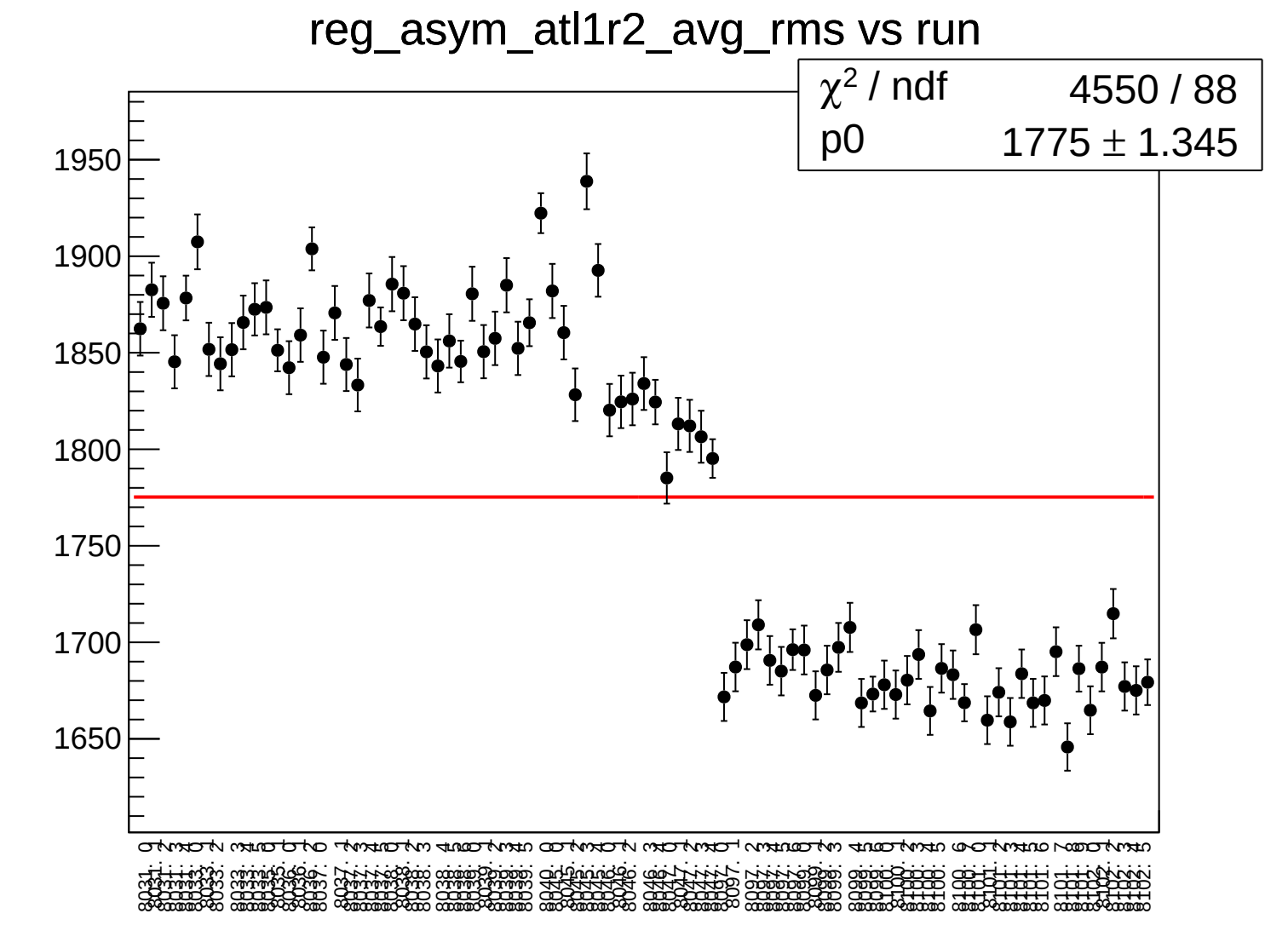

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.31 / 88
p0 5.578e−14 ± 1.096e−13
pull
Entries 89
Mean 172.5
Std Dev 0

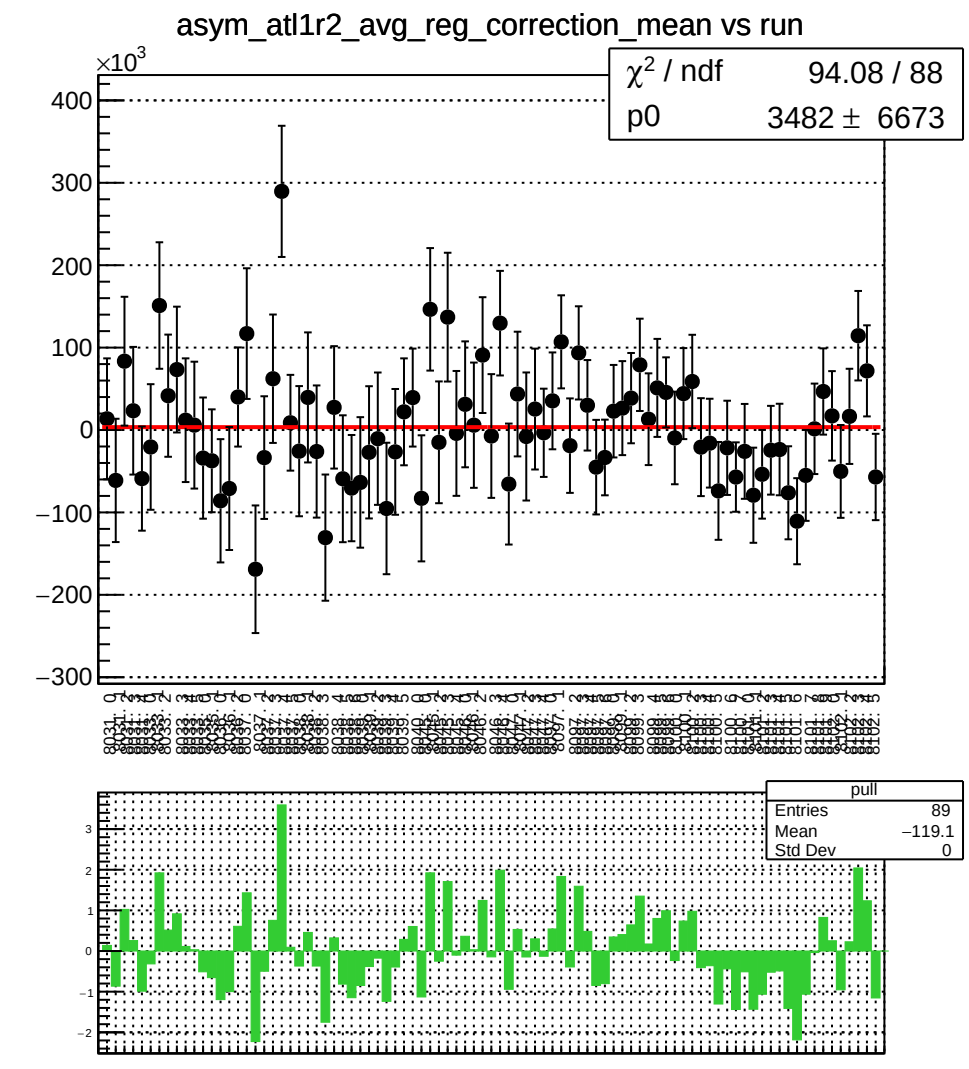

pull1D
Entries 89
Mean 0.01992
Std Dev 1.002

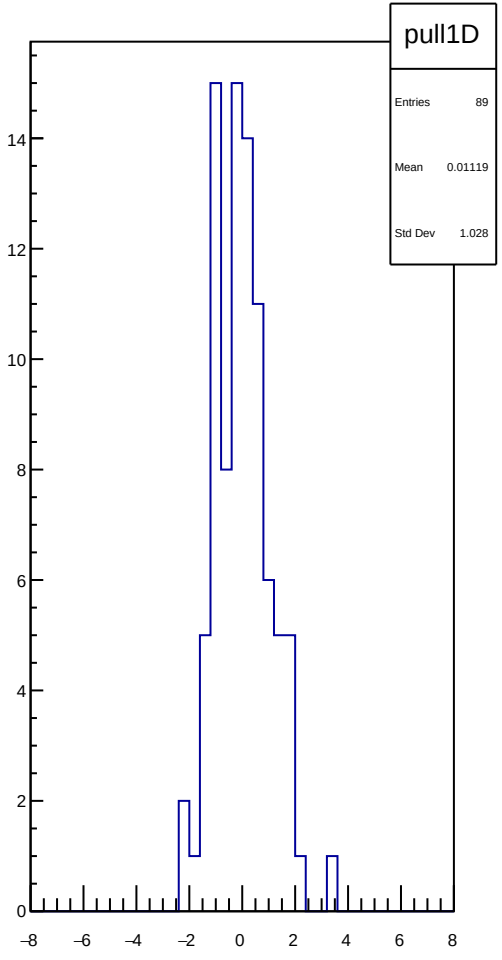

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.397e+05 / 88
p0 8.159e−11 ± 7.752e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

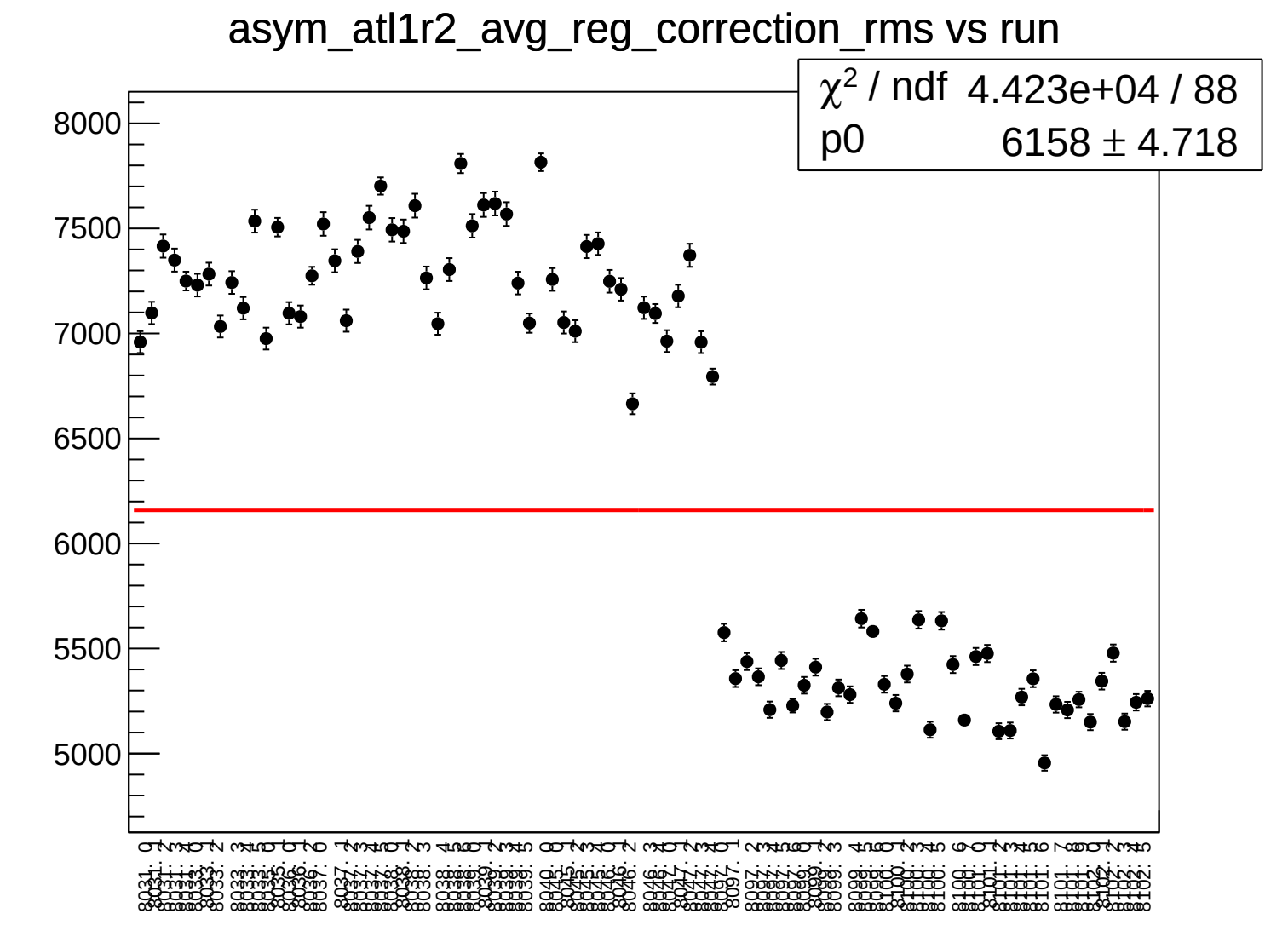

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 90.44 / 88
p0 3108 ± 1902
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −124.1
Std Dev 0
2
1
0
−1
−2

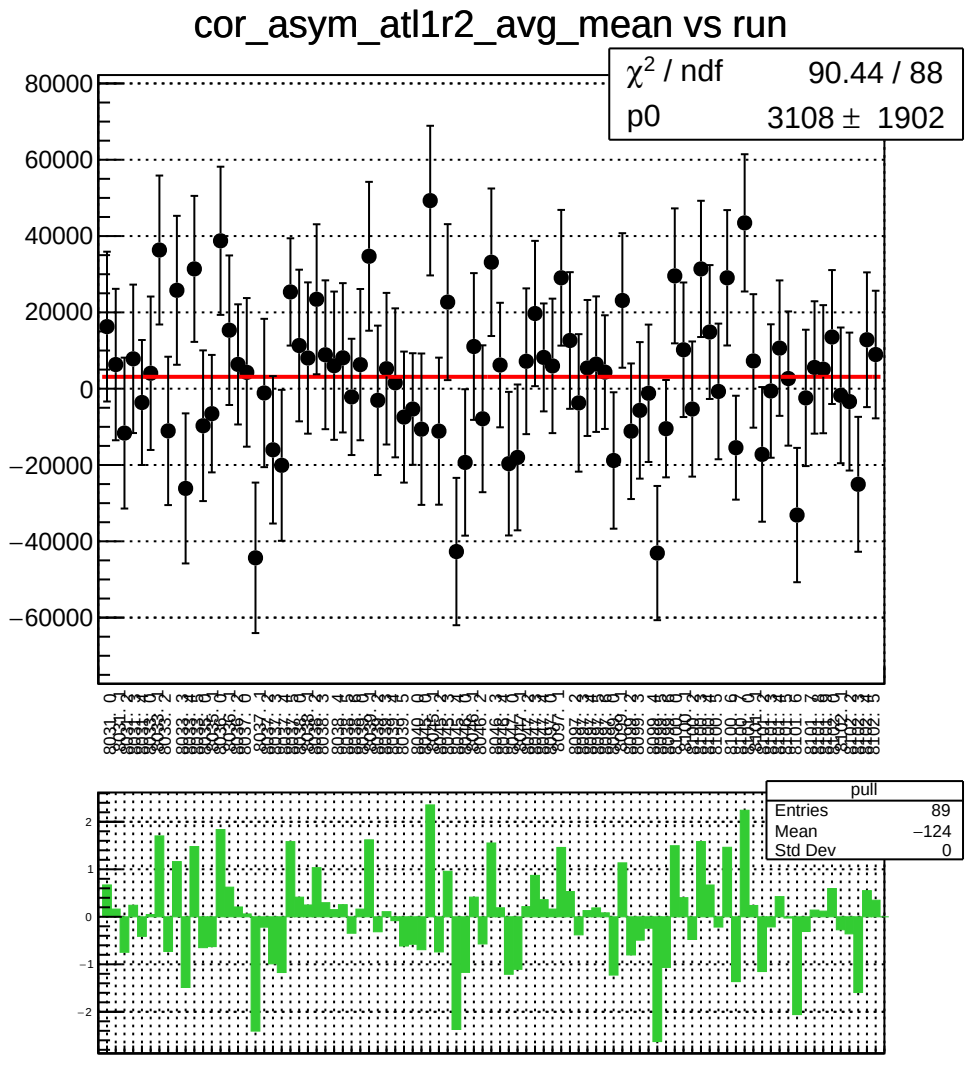

pull1D
Entries 89
Mean 0.009426
Std Dev 1.008
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

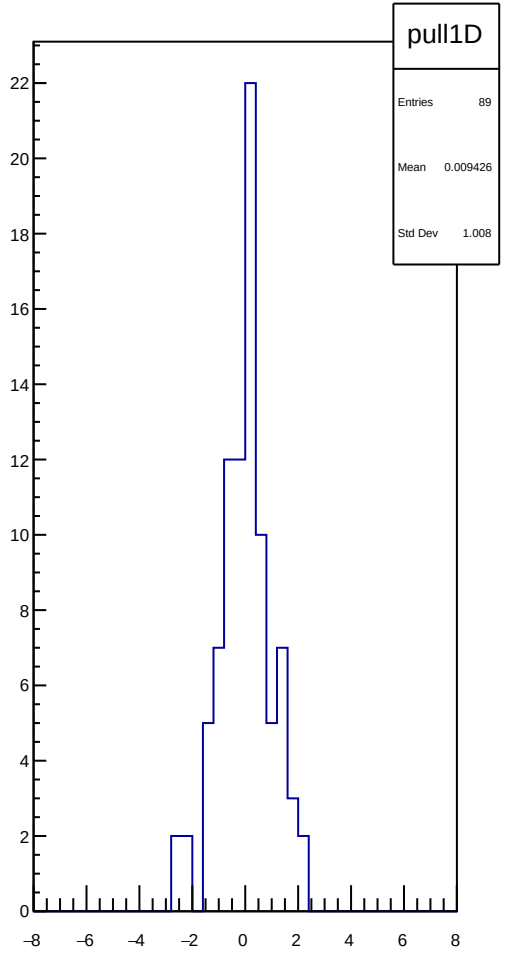

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 4550 / 88
p0 1775 ± 1.345
1950
1900
1850
1800
1750
1700
1650

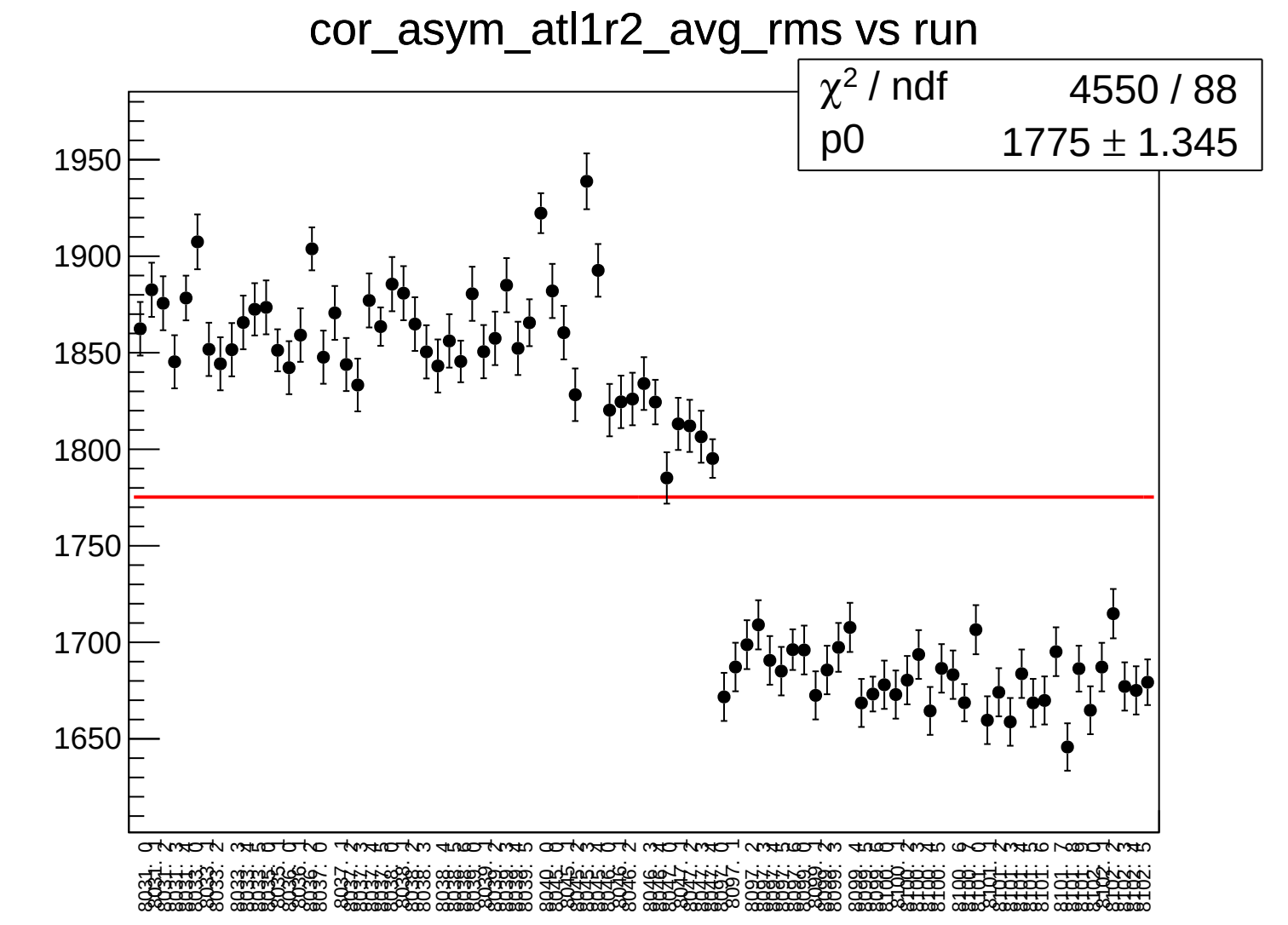

asym_atl1r2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 94.08 / 88
p0 3482 ± 6673
pull
Entries 89
Mean −119.1
Std Dev 0

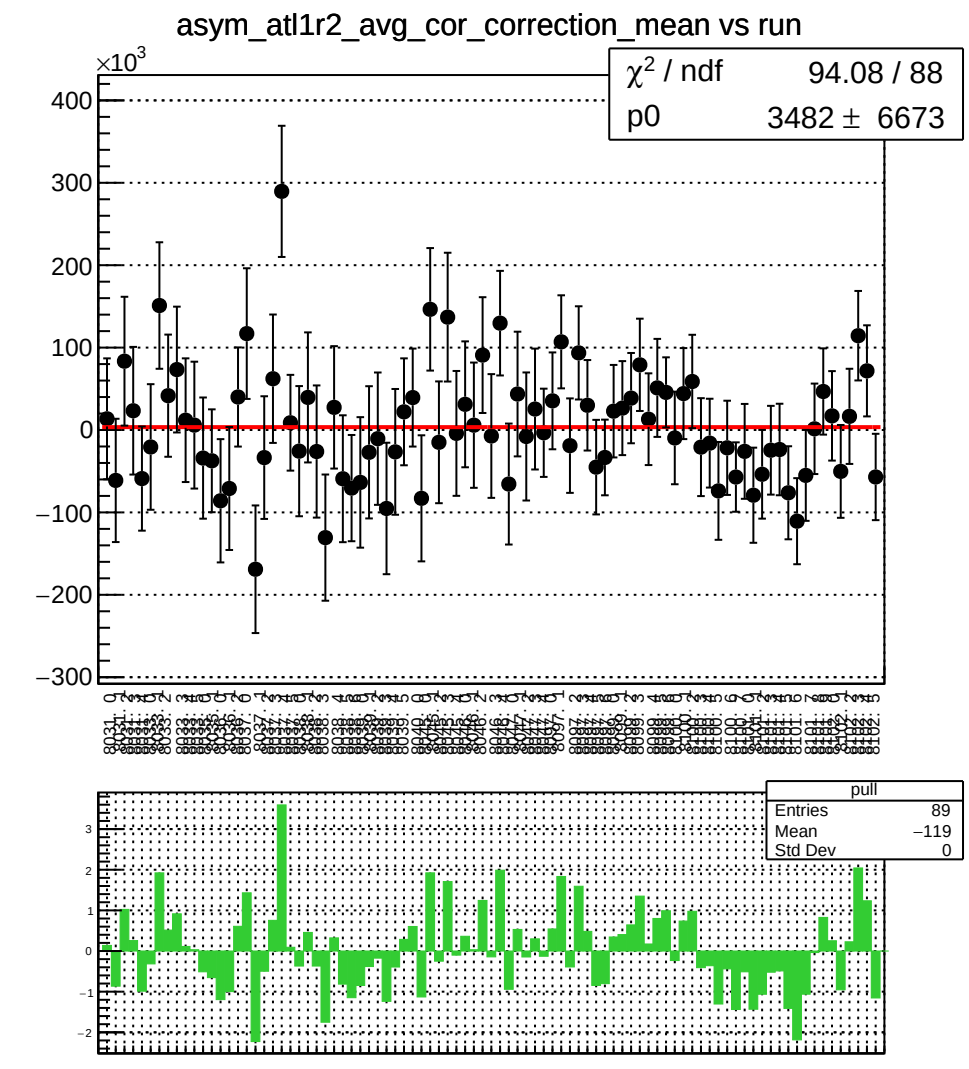

pull1D
Entries 89
Mean 0.01119
Std Dev 1.028

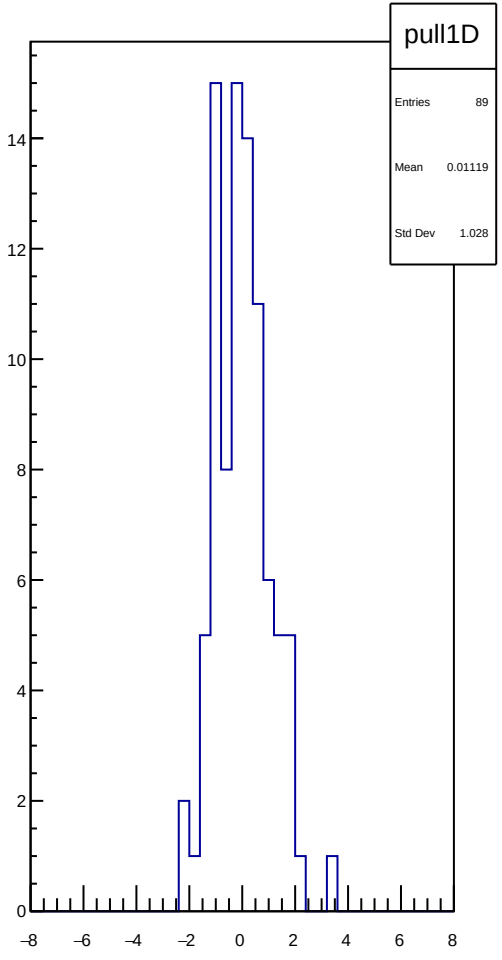

asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 4.423e+04 / 88
p0 6158 ± 4.718
8000
7500
7000
6500
6000
5500
5000

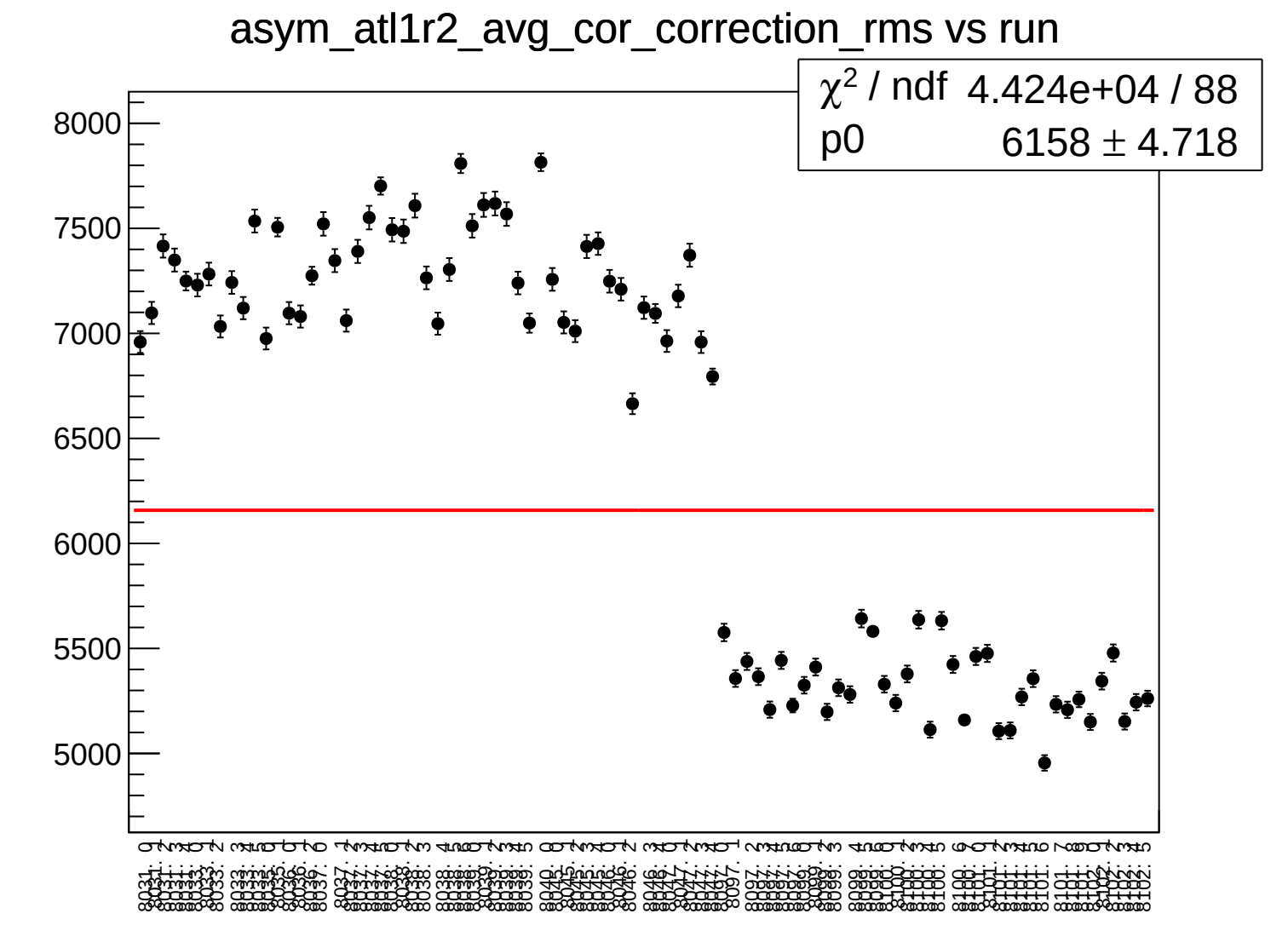

cor_asym_atl1r2_avg_mean vs run
χ² / ndf 90.44 / 88
p0 3108 ± 1902
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −124
Std Dev 0
2
1
0
−1
−2

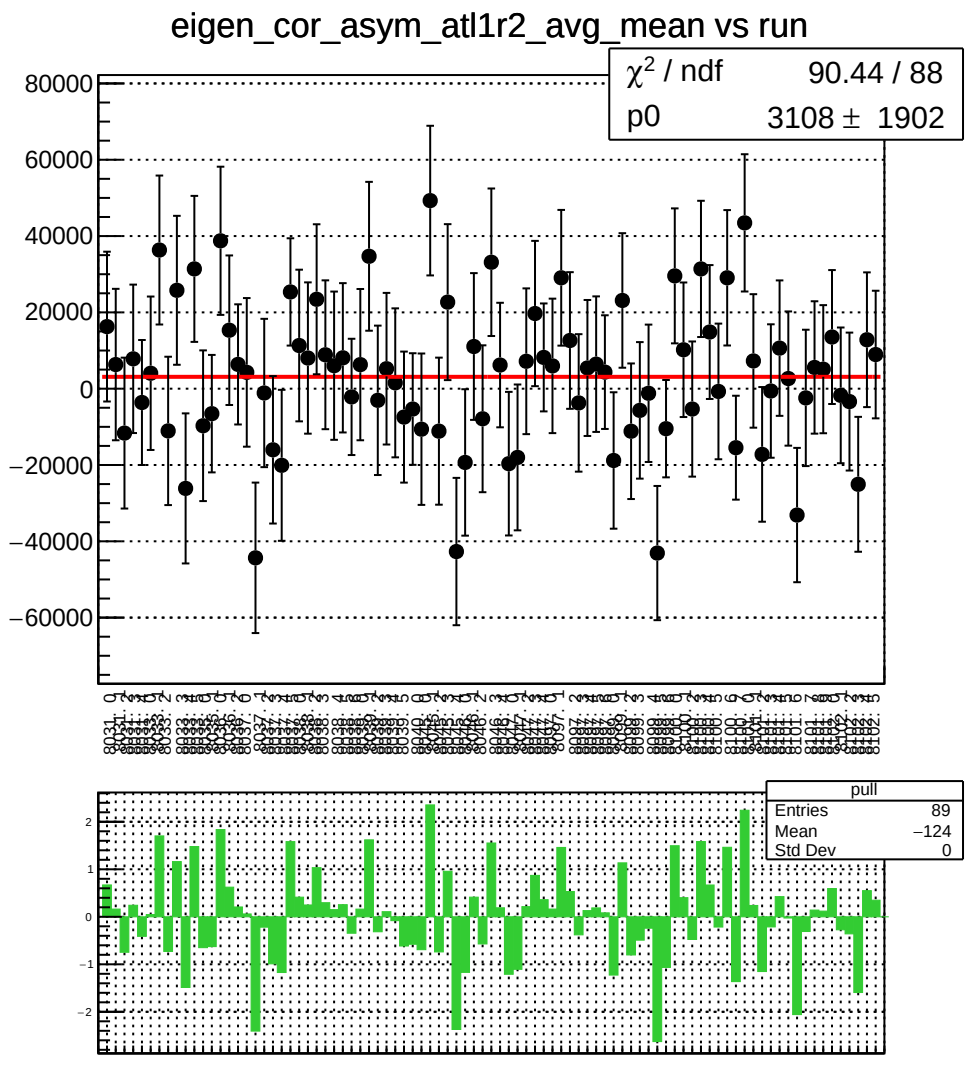

pull1D
Entries 89
Mean 0.009426
Std Dev 1.008
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

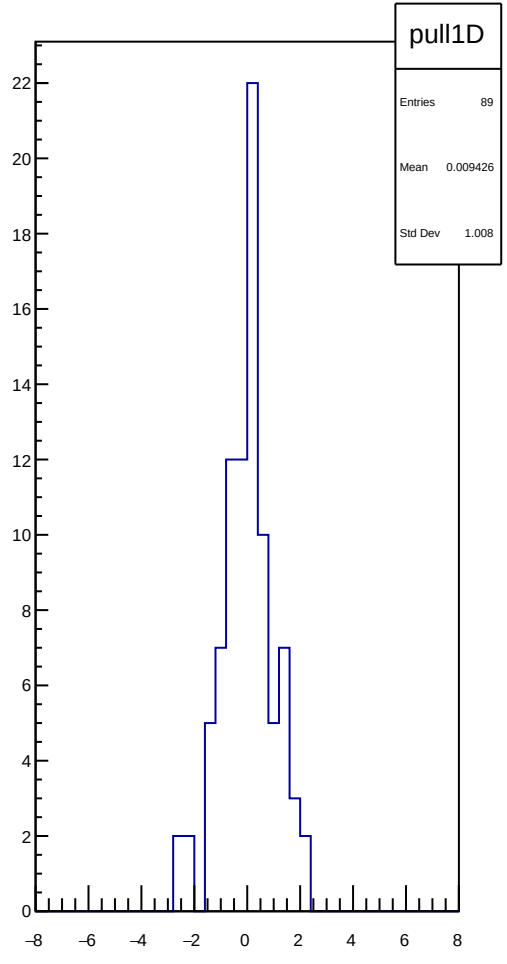

cor_asym_atl1r2_avg_rms vs run
χ² / ndf 4550 / 88
p0 1775 ± 1.345
1950
1900
1850
1800
1750
1700
1650

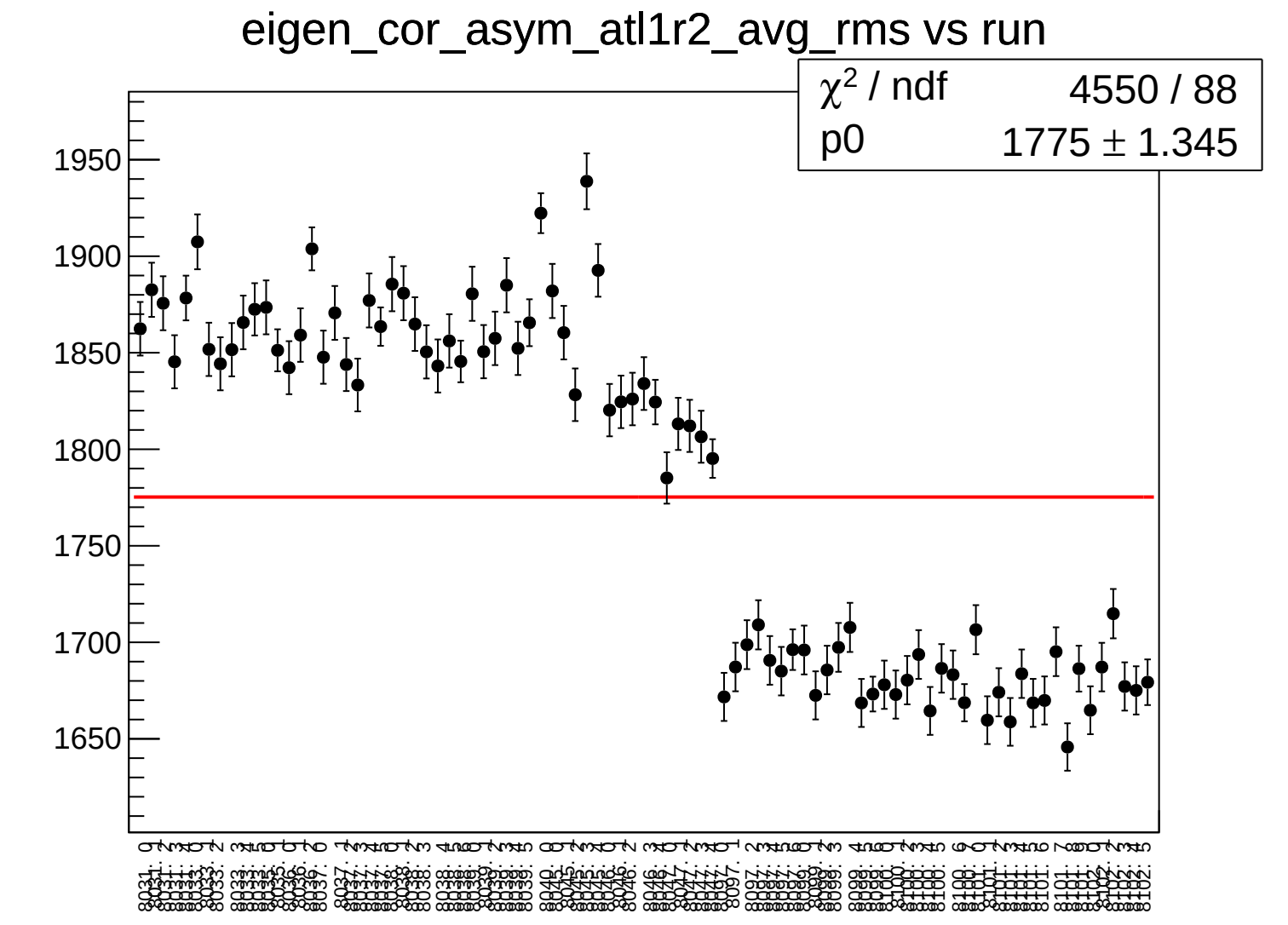

asym_atl1r2_avg_cor_correction_mean vs run
χ² / ndf 94.08 / 88
p0 3482 ± 6673
×10³
pull
Entries 89
Mean −119
Std Dev 0

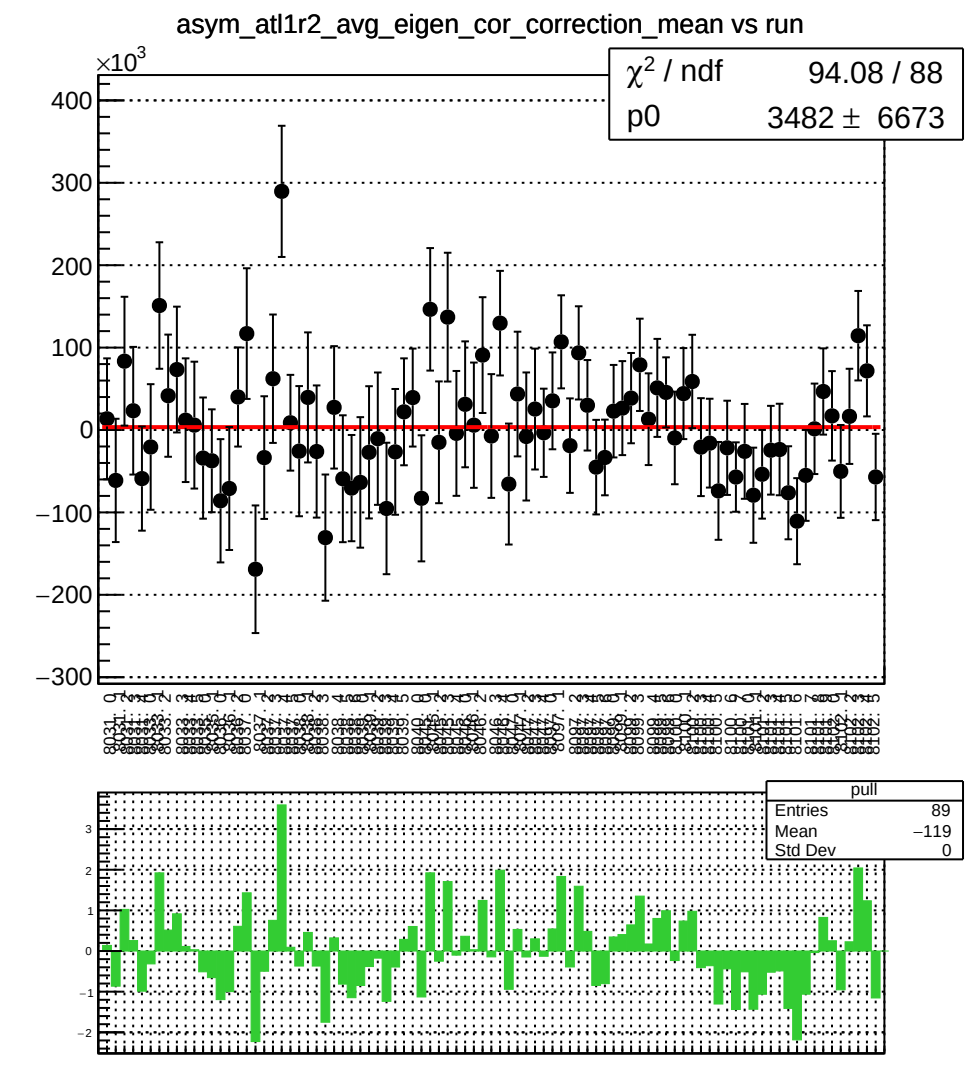

pull1D
Entries 89
Mean 0.01119
Std Dev 1.028

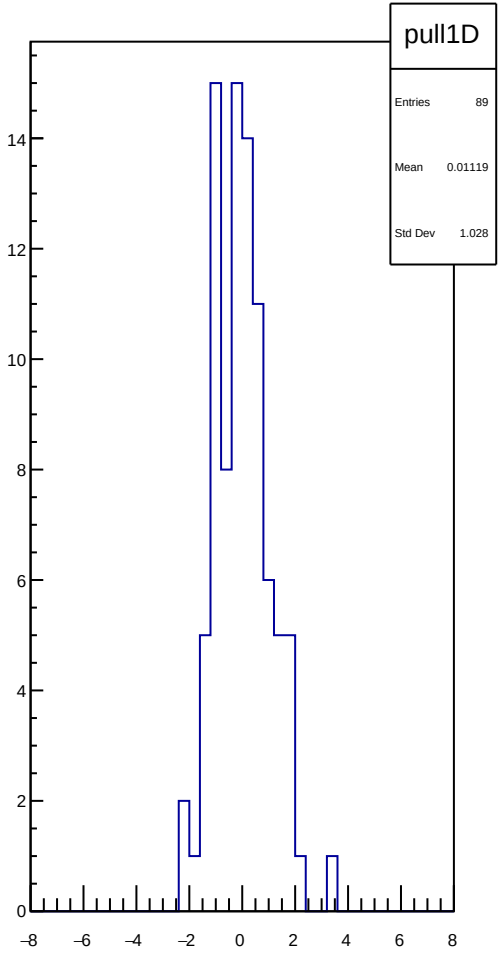

asym_atl1r2_avg_cor_correction_rms vs run
χ² / ndf 4.424e+04 / 88
p0 6158 ± 4.718
8000
7500
7000
6500
6000
5500
5000

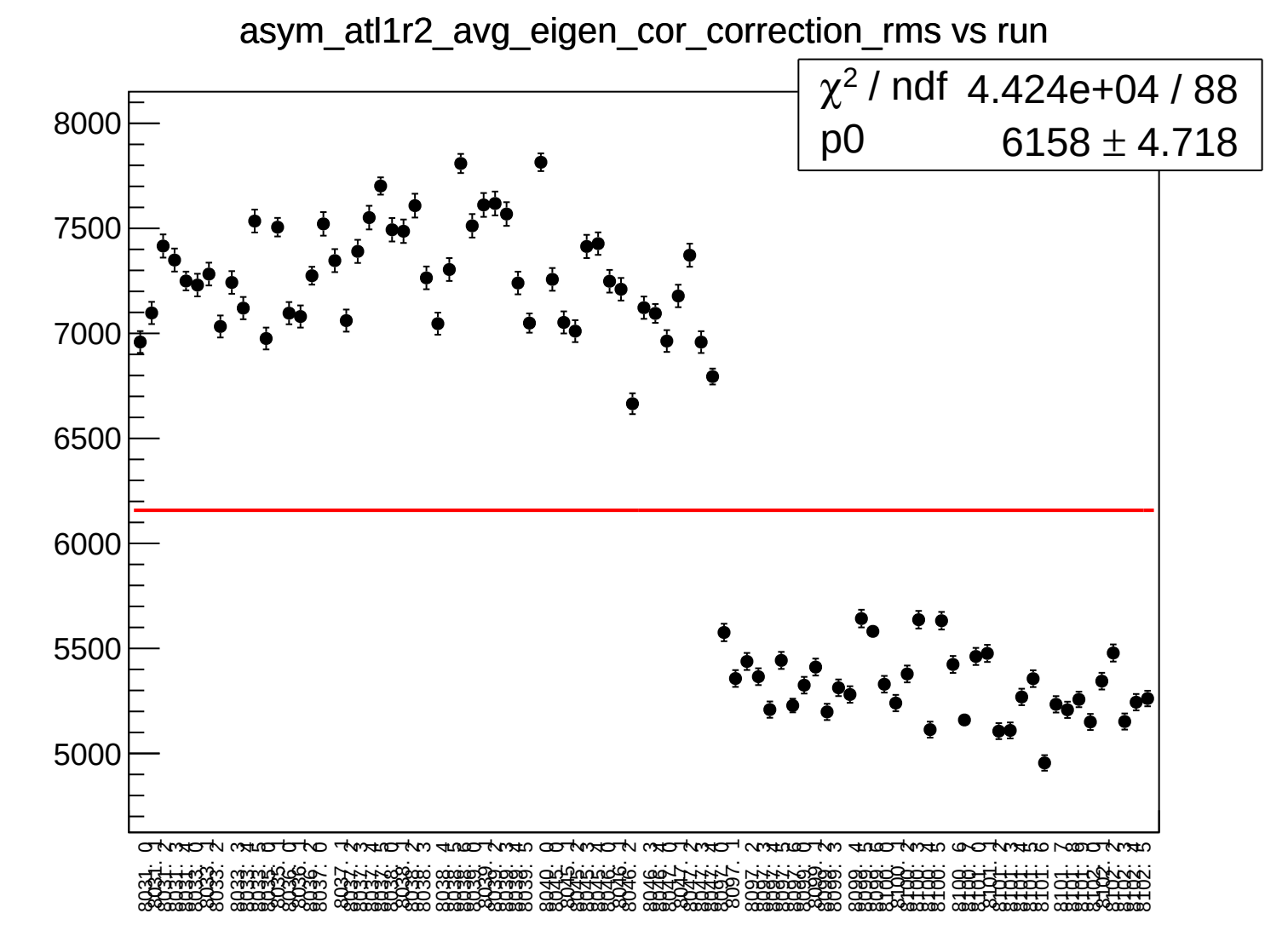

eigen_cor_asym_atl1r2_avg_mean vs run
χ² / ndf 90.44 / 88
p0 3108 ± 1902
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −124
Std Dev 0
2
1
0
−1
−2

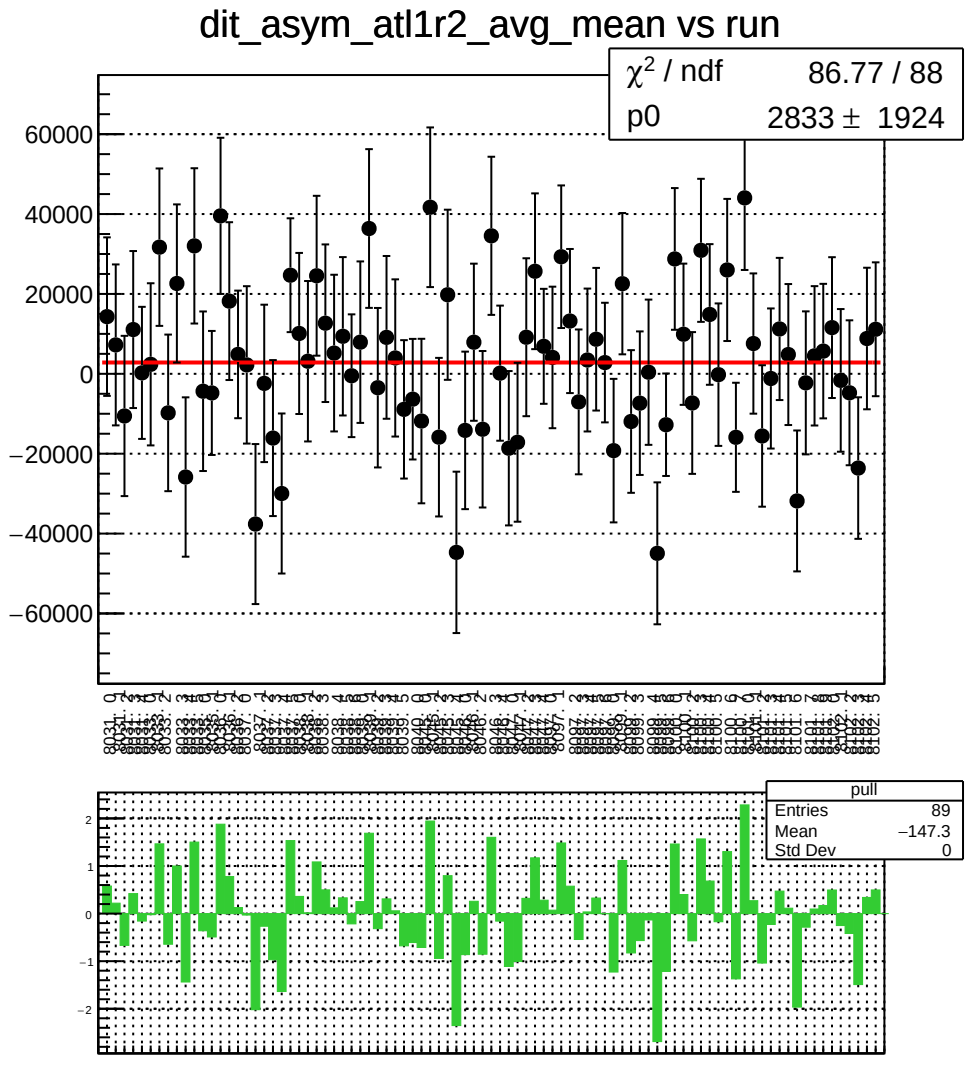

pull1D
Entries 89
Mean 0.009426
Std Dev 1.008
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

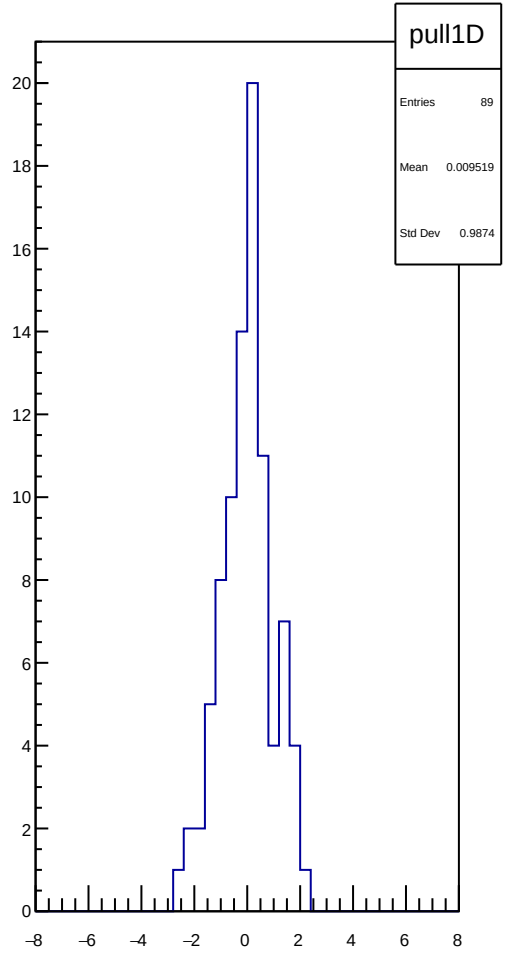

eigen_cor_asym_atl1r2_avg_rms vs run
χ² / ndf 4550 / 88
p0 1775 ± 1.345
1950
1900
1850
1800
1750
1700
1650

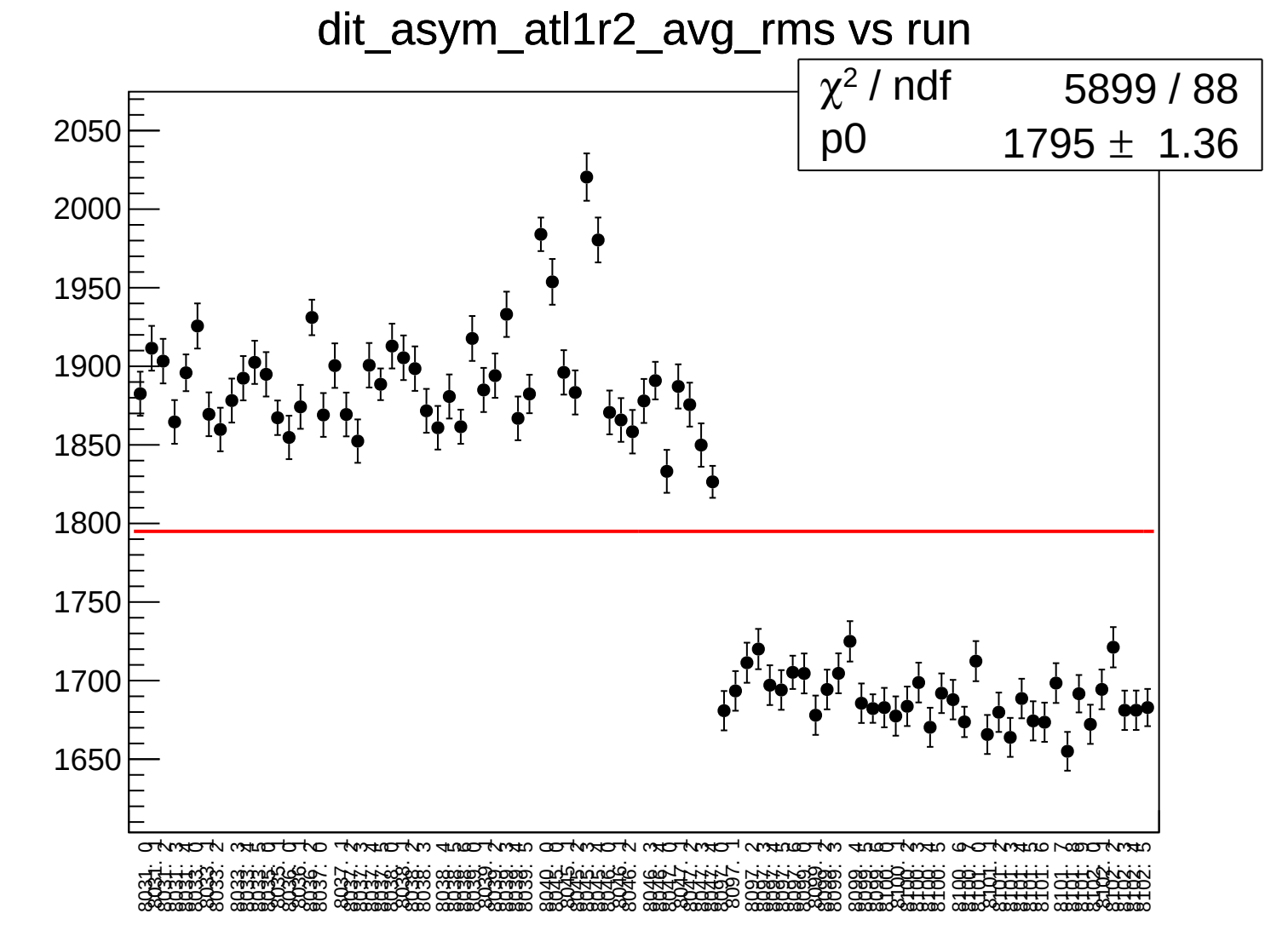

asym_atl1r2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 94.08 / 88
p0 3482 ± 6673
pull
Entries 89
Mean −119
Std Dev 0

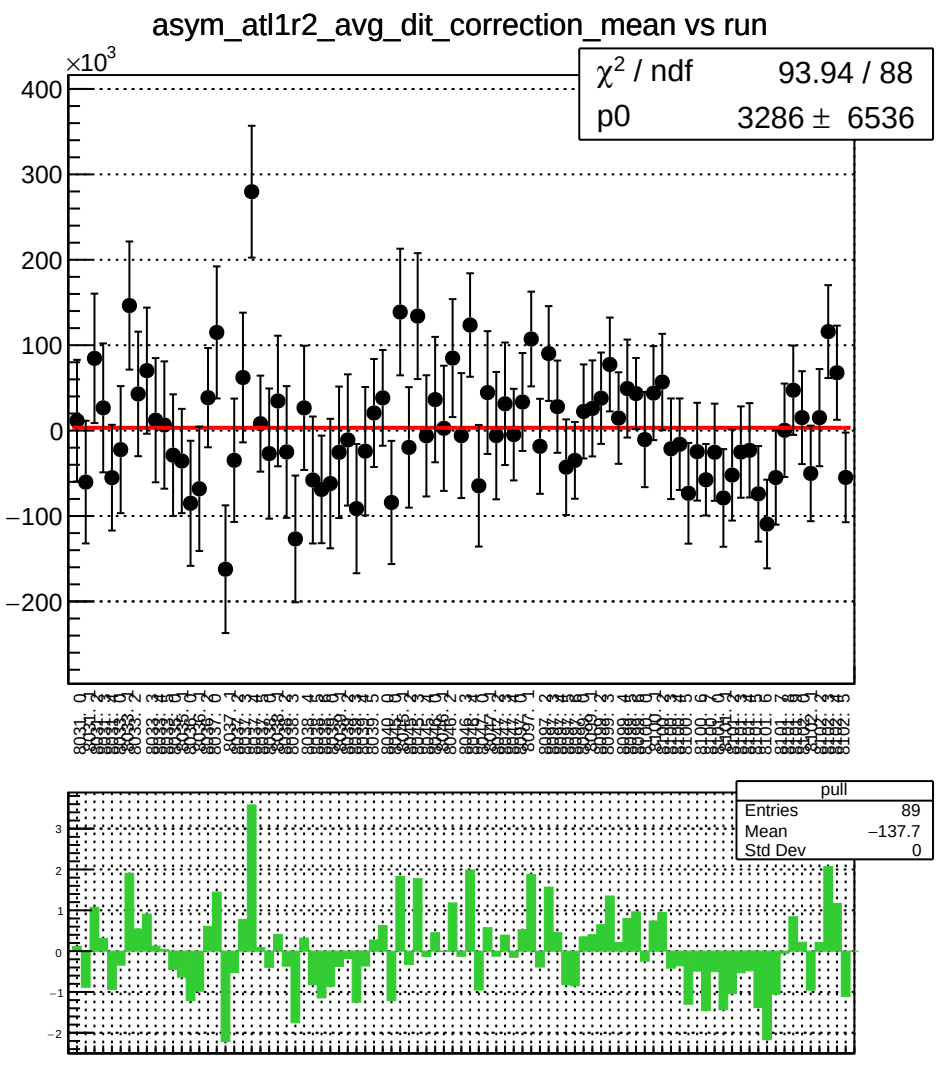

pull1D
Entries 89
Mean 0.01119
Std Dev 1.028

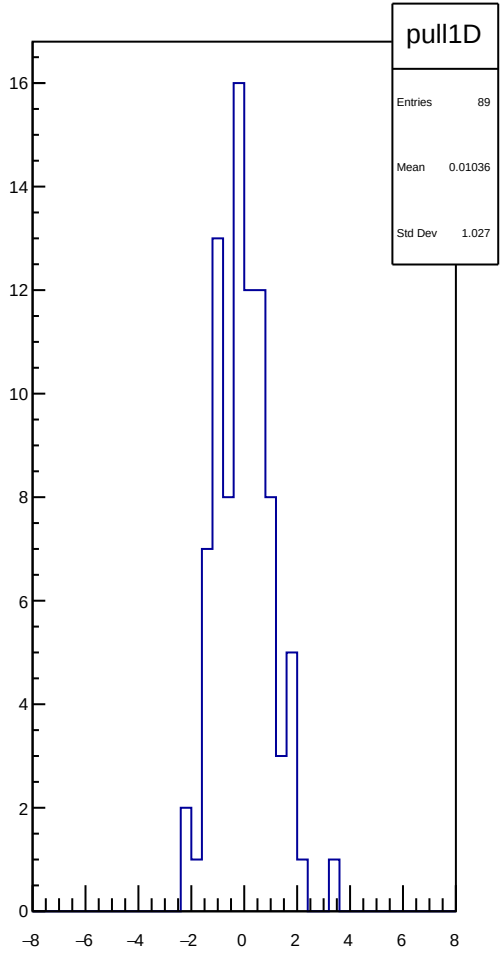

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ² / ndf 4.424e+04 / 88
p0 6158 ± 4.718
8000
7500
7000
6500
6000
5500
5000

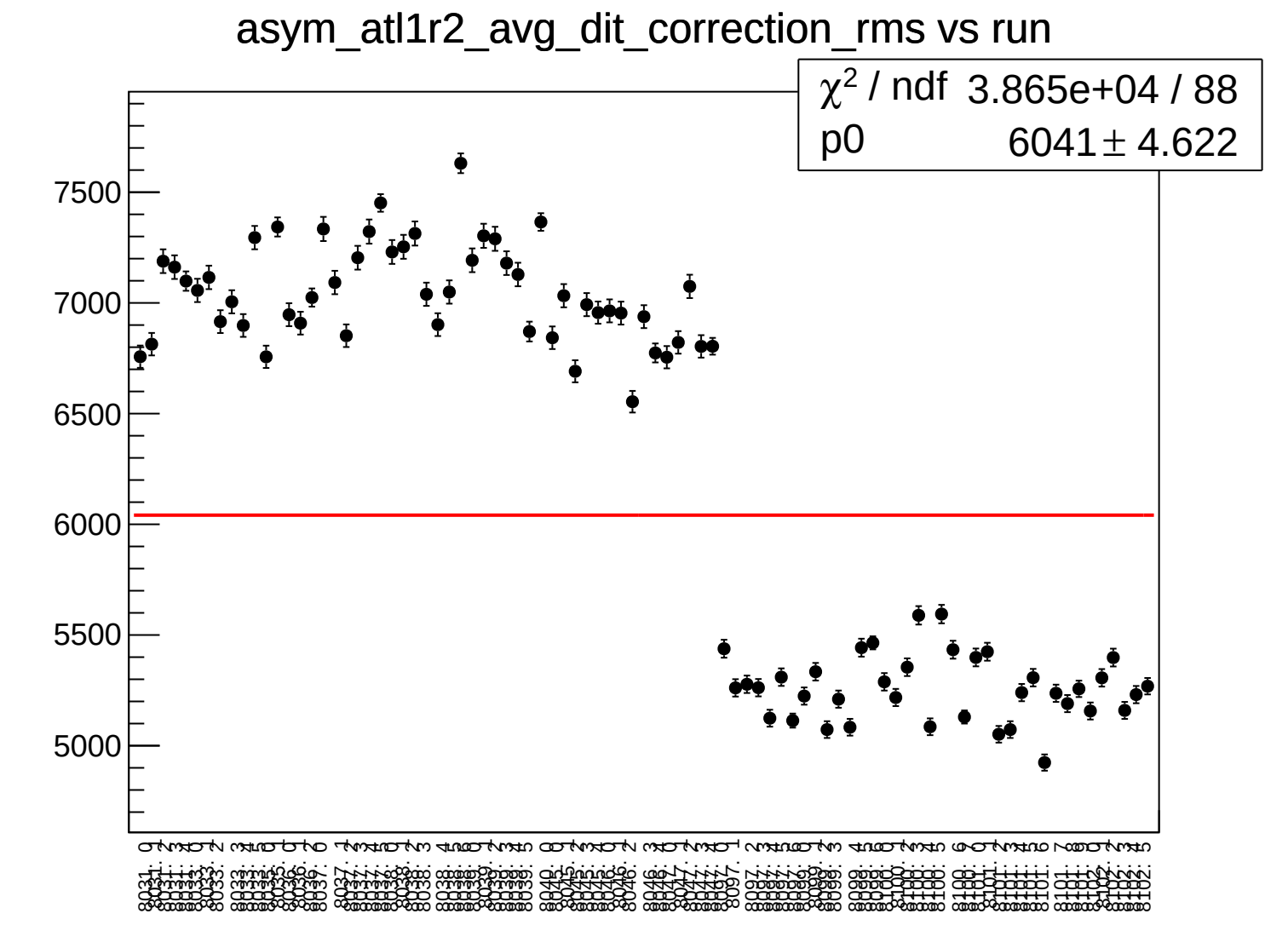

dit_asym_atl1r2_avg_mean vs run
χ² / ndf 86.77 / 88
p0 2833 ± 1924
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −147.3
Std Dev 0
2
1
0
−1
−2

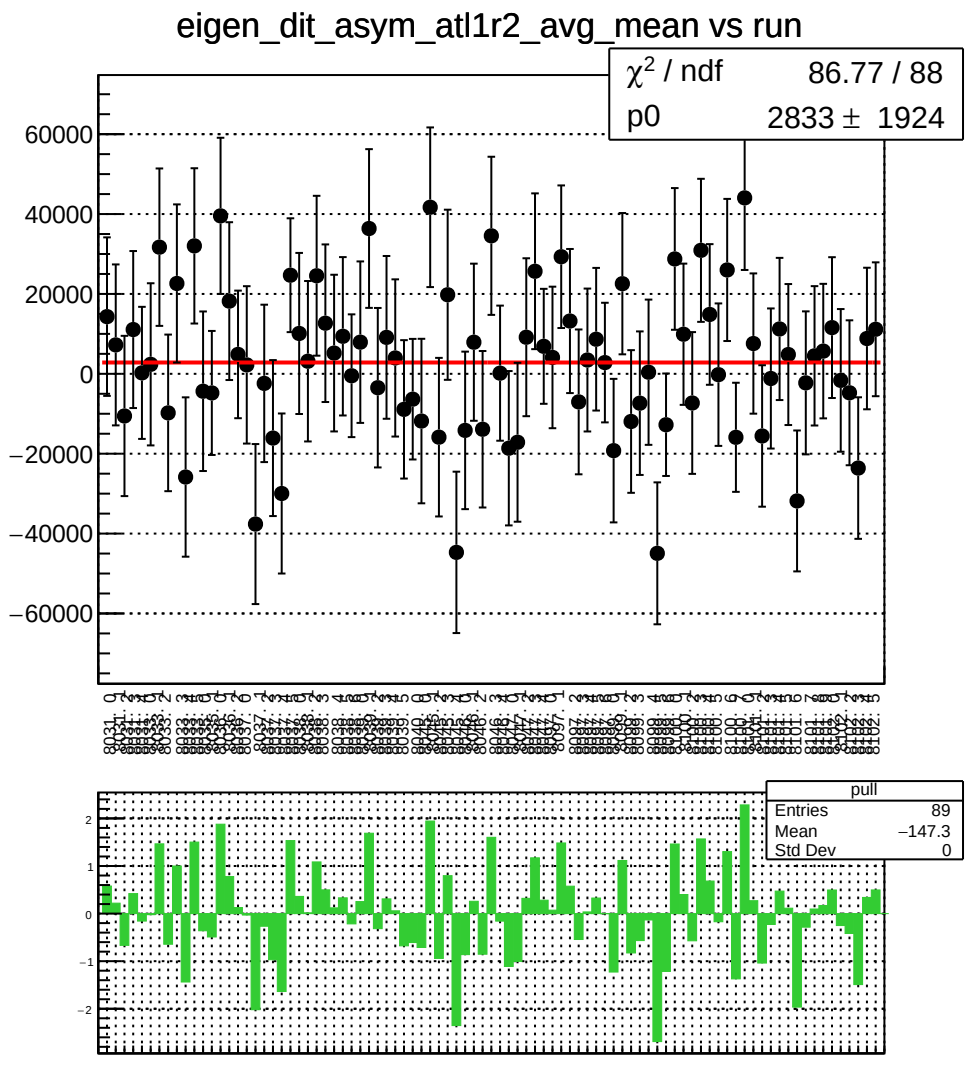

pull1D
Entries 89
Mean 0.009519
Std Dev 0.9874
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

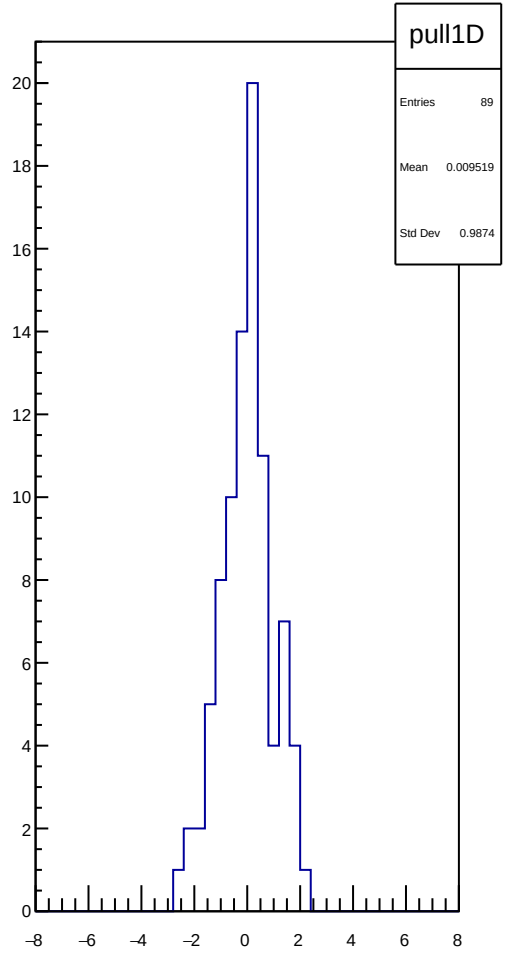

dit_asym_atl1r2_avg_rms vs run
χ² / ndf 5899 / 88
p0 1795 ± 1.36
2050
2000
1950
1900
1850
1800
1750
1700
1650

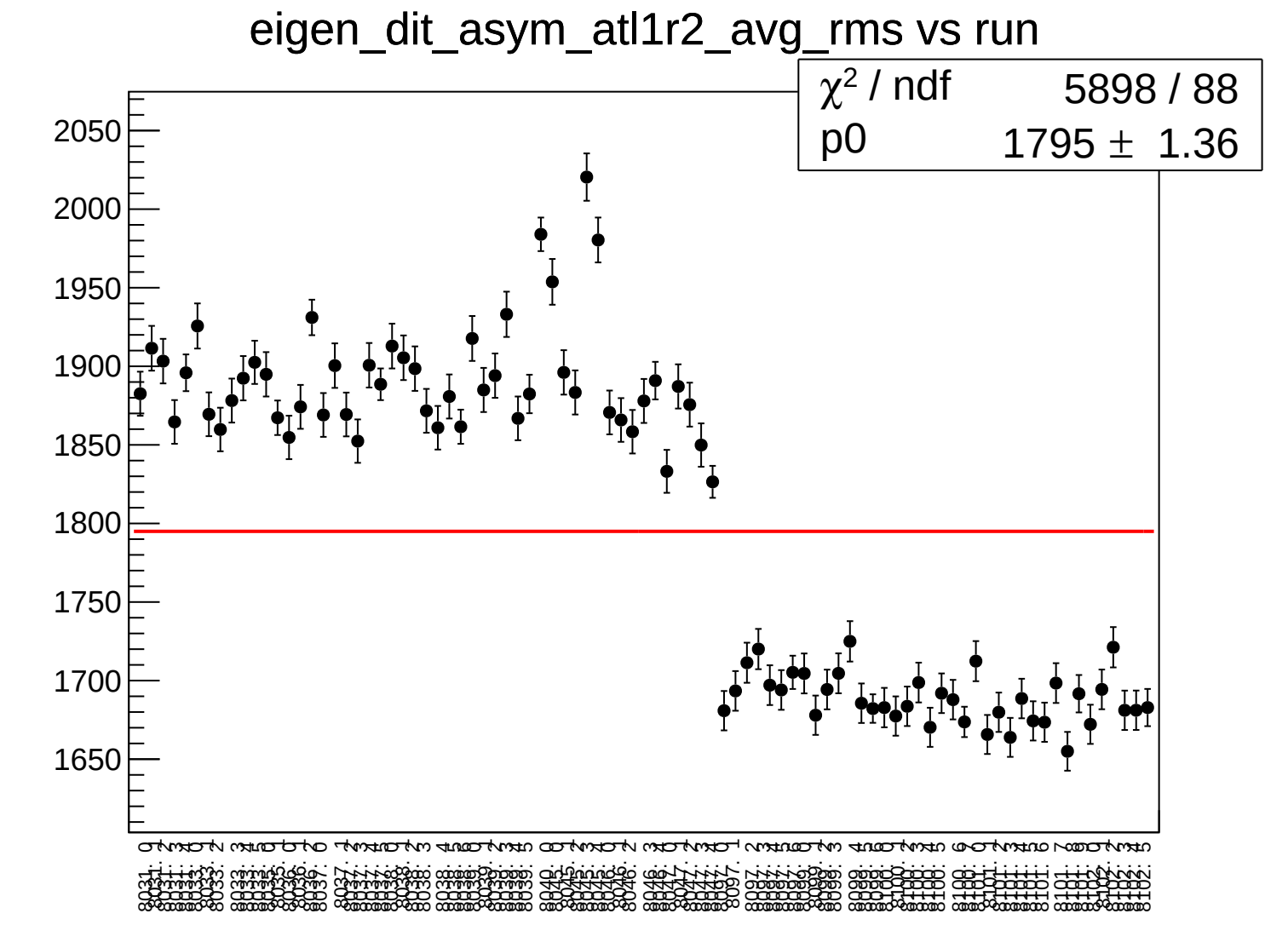

asym_atl1r2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 93.94 / 88
p0 3286 ± 6536
400
300
200
100
0
−100
−200
pull
Entries 89
Mean −137.7
Std Dev 0
3
2
1
0
−1
−2

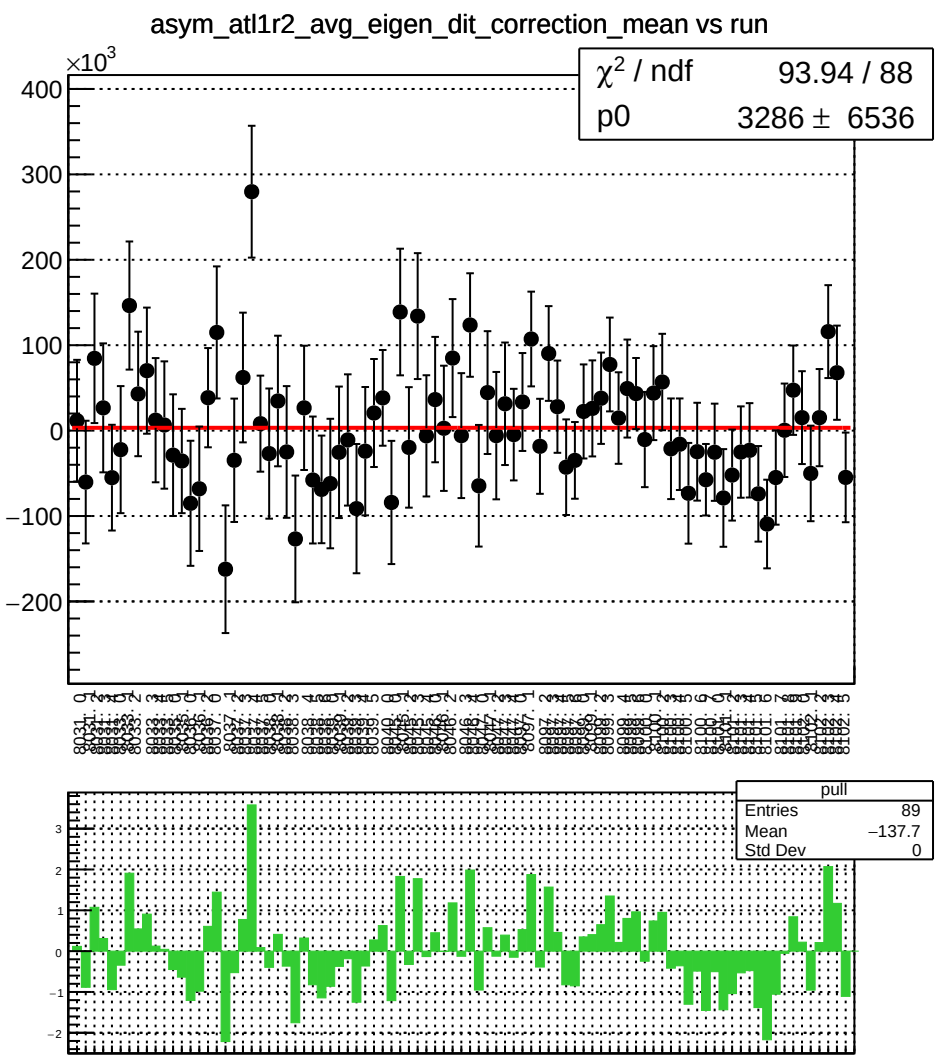

pull1D
Entries 89
Mean 0.01036
Std Dev 1.027
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

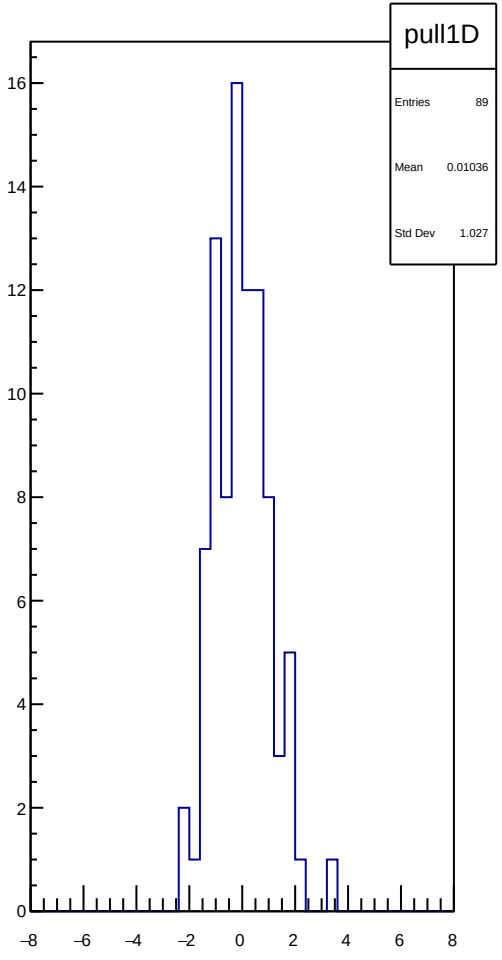

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 3.865e+04 / 88
p0 6041 ± 4.622
7500
7000
6500
6000
5500
5000

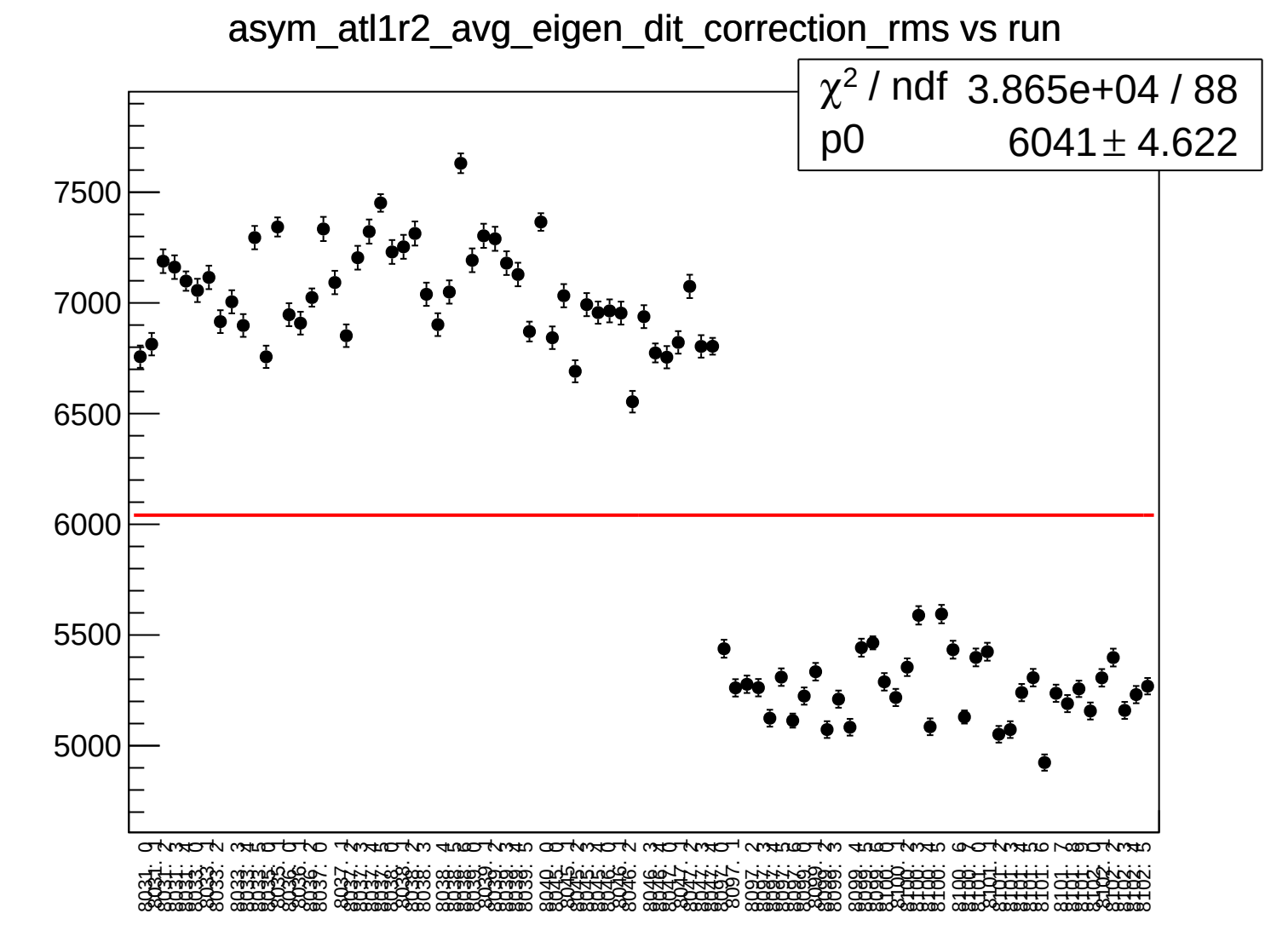

eigen_dit_asym_atl1r2_avg_mean vs run
χ² / ndf 86.77 / 88
p0 2833 ± 1924
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −147.3
Std Dev 0
2
1
0
−1
−2

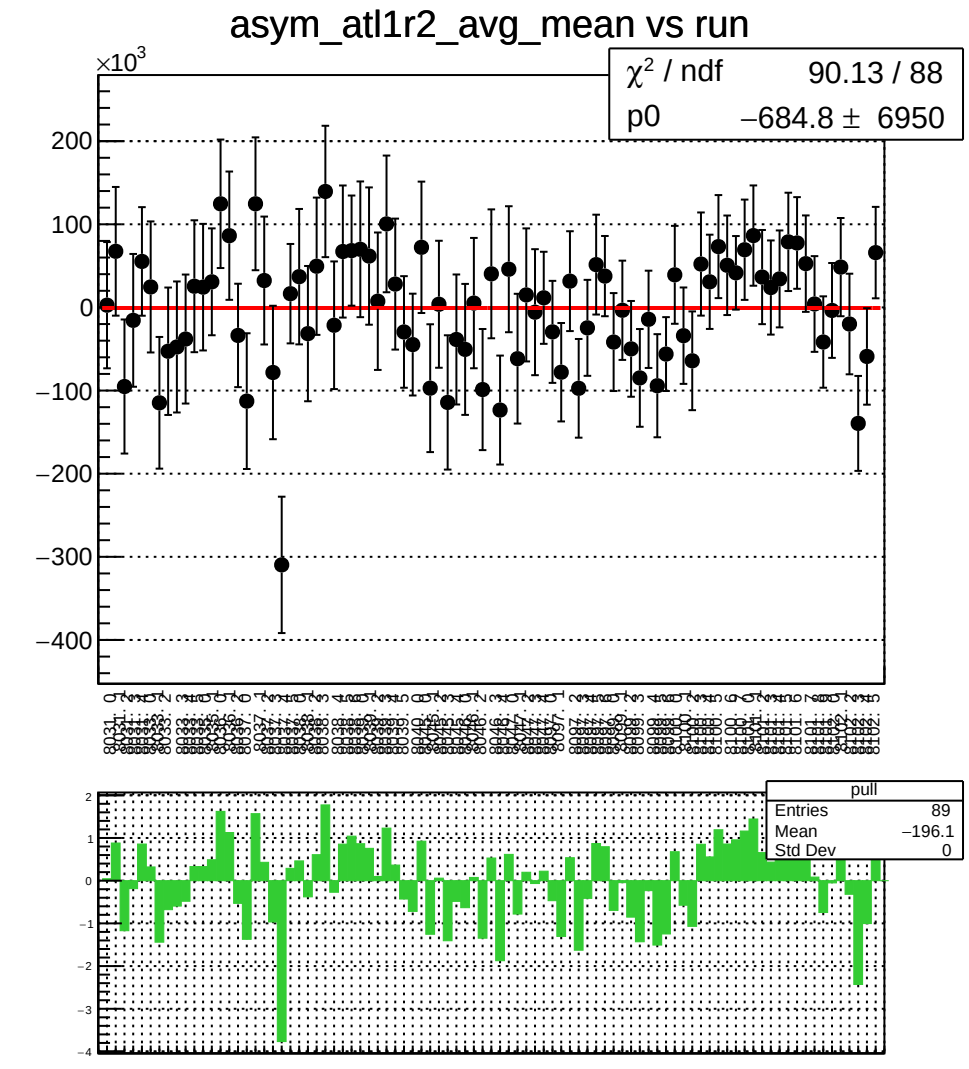

pull1D
Entries 89
Mean 0.009519
Std Dev 0.9874
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

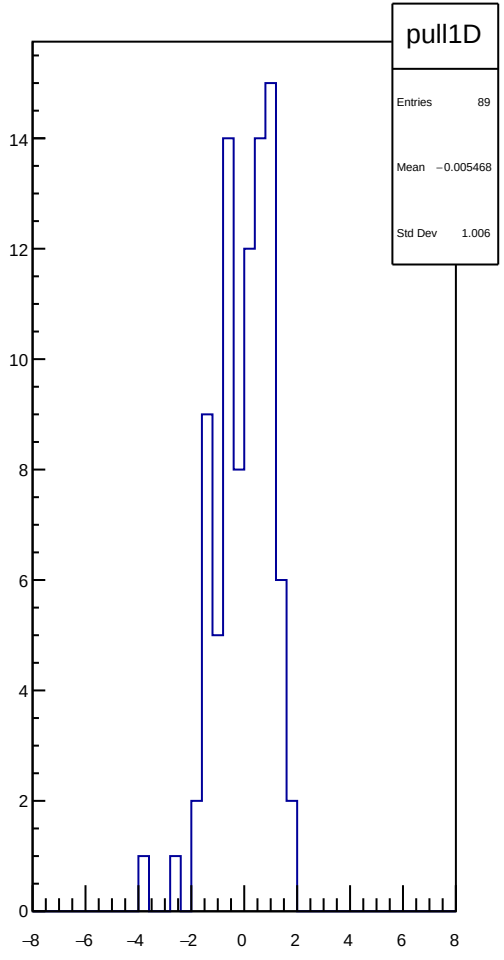

eigen_dit_asym_atl1r2_avg_rms vs run
χ² / ndf 5898 / 88
p0 1795 ± 1.36
2050
2000
1950
1900
1850
1800
1750
1700
1650

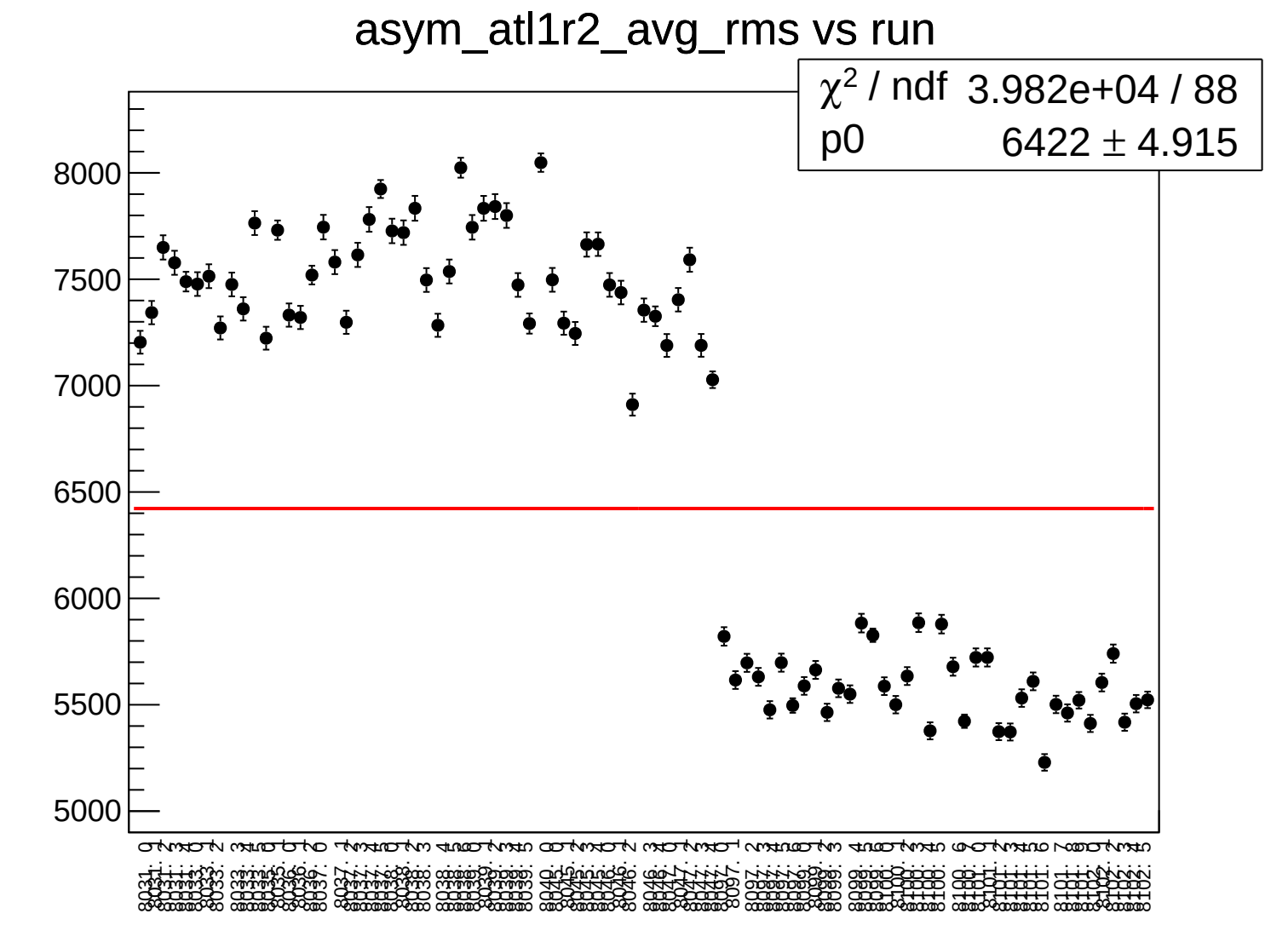

asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 93.94 / 88
p0 3286 ± 6536
400
300
200
100
0
−100
−200
pull
Entries 89
Mean −137.7
Std Dev 0
3
2
1
0
−1
−2

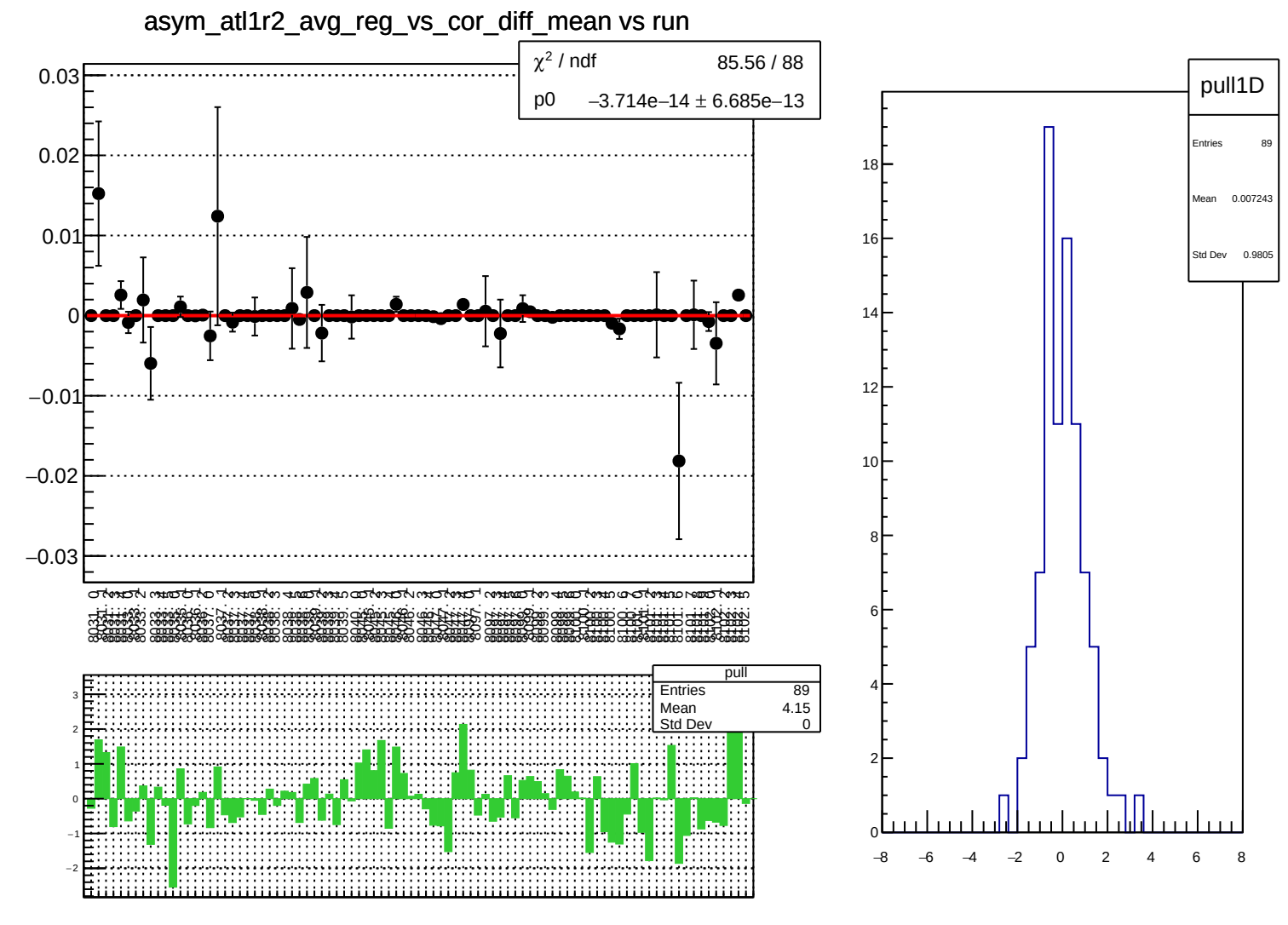

pull1D
Entries 89
Mean 0.01036
Std Dev 1.027
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

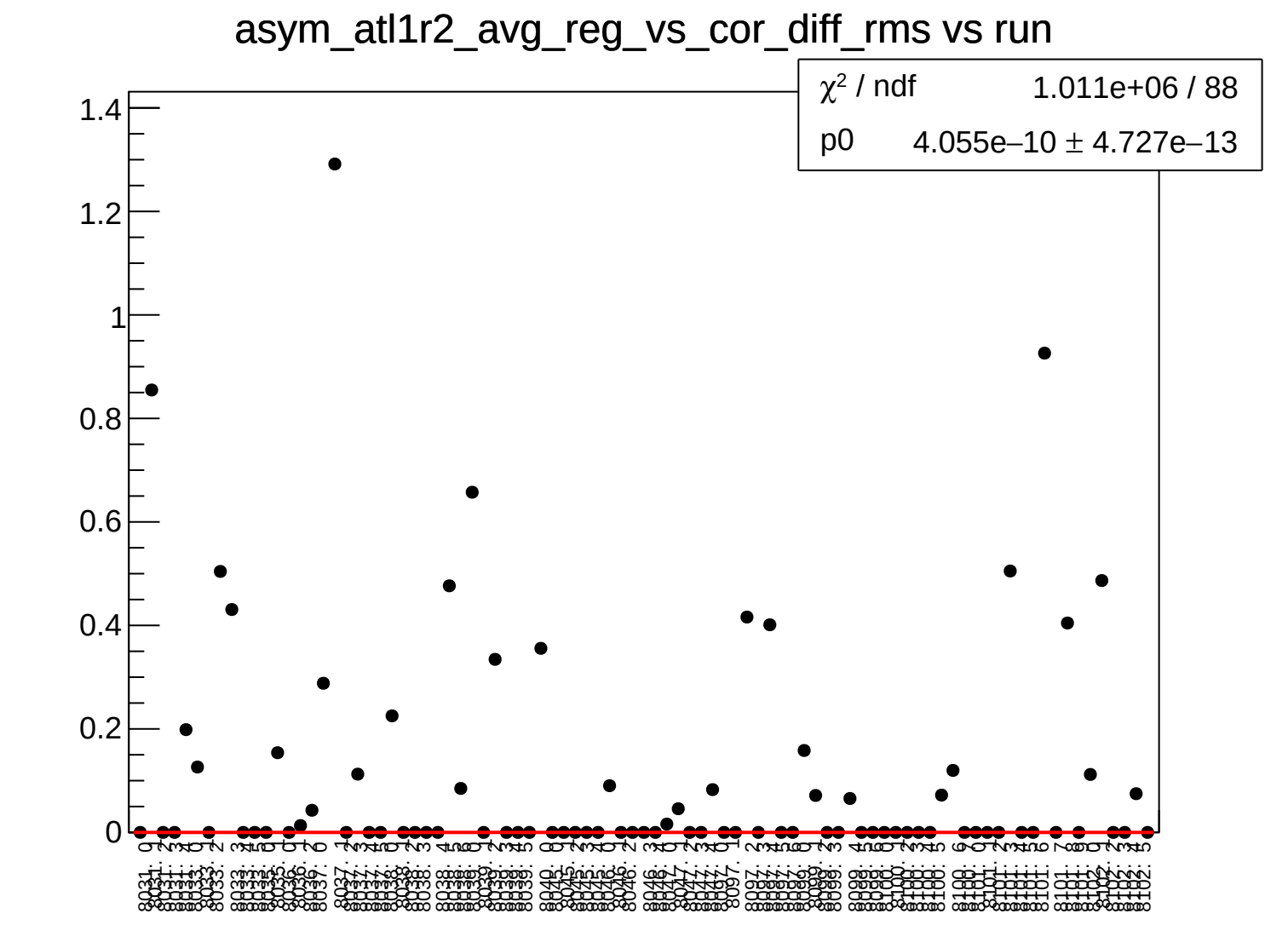

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.865e+04 / 88
p0 6041 ± 4.622
7500
7000
6500
6000
5500
5000

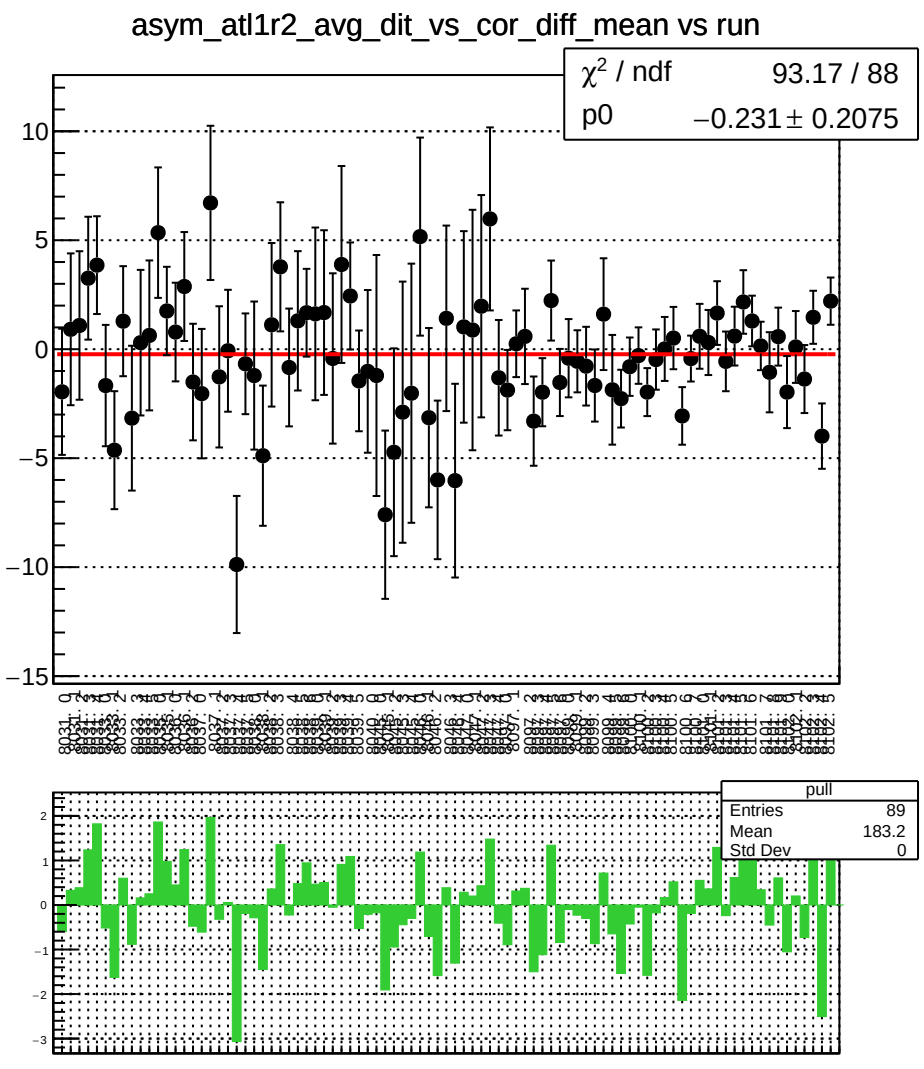

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 90.13 / 88
p0 −684.8 ± 6950
200
100
0
−100
−200
−300
−400
pull
Entries 89
Mean −196.1
Std Dev 0
2
1
0
−1
−2
−3
−4

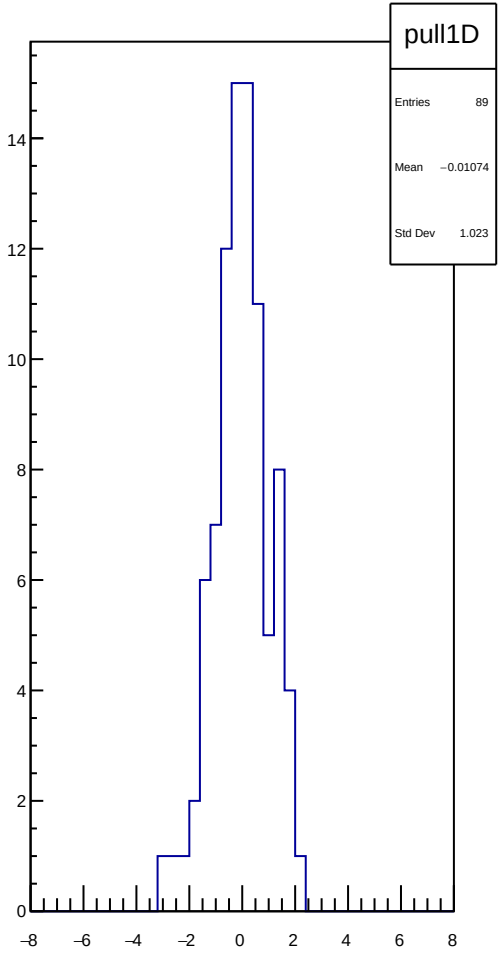

pull1D
Entries 89
Mean −0.005468
Std Dev 1.006
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

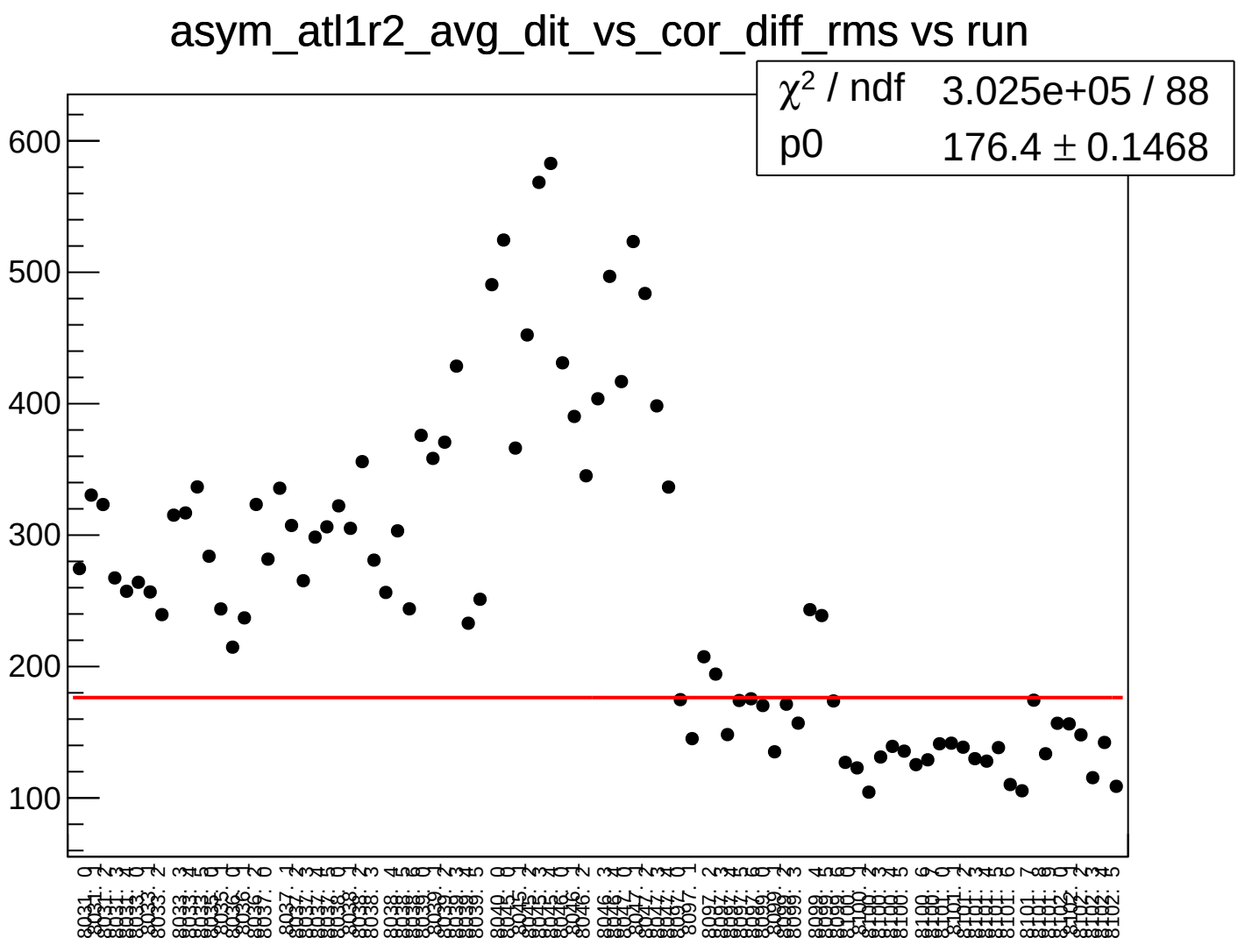

asym_atl1r2_avg_rms vs run
χ² / ndf 3.982e+04 / 88
p0 6422 ± 4.915
8000
7500
7000
6500
6000
5500
5000

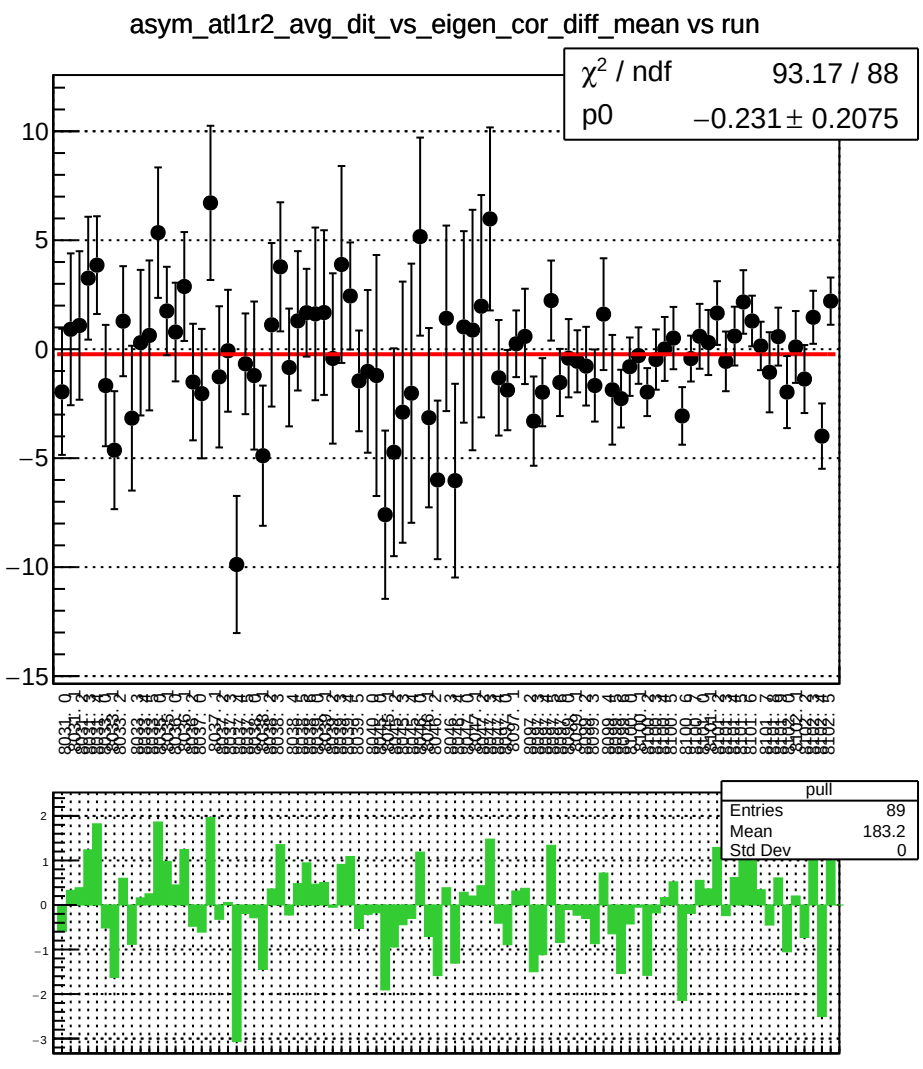

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 85.56 / 88
p0 −3.714e−14 ± 6.685e−13
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 89
Mean 4.15
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.007243
Std Dev 0.9805
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

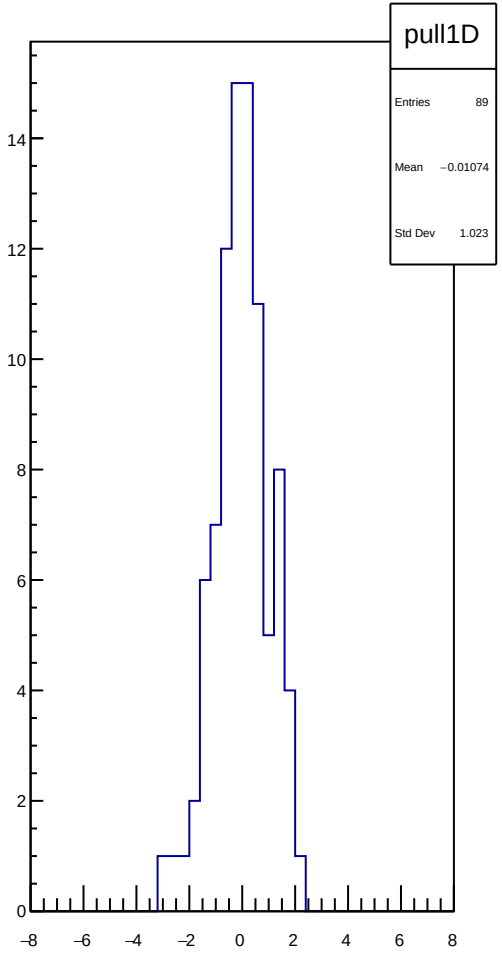

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.011e+06 / 88
p0 4.055e−10 ± 4.727e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

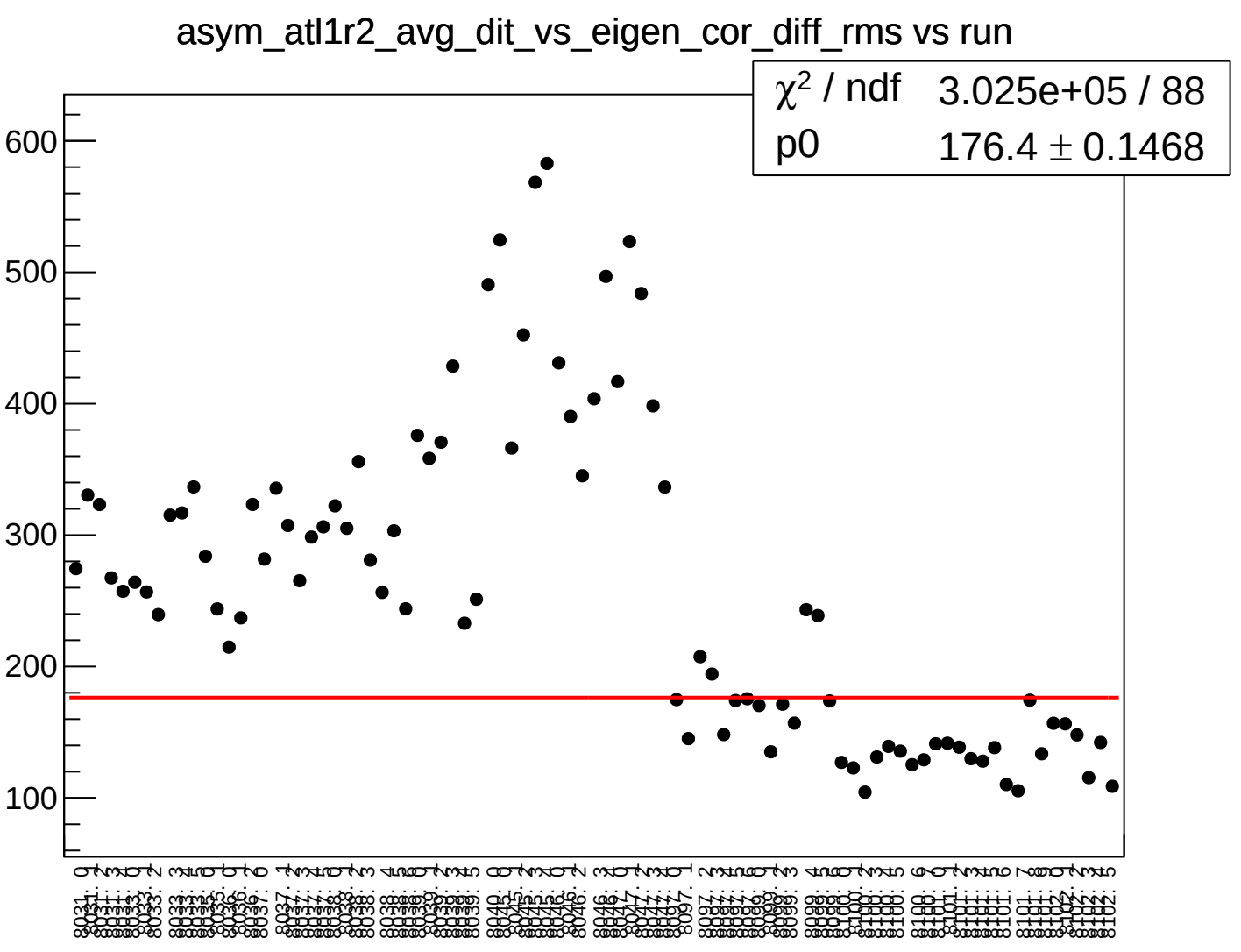

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 93.17 / 88
p0 −0.231 ± 0.2075
pull
Entries 89
Mean 183.2
Std Dev 0

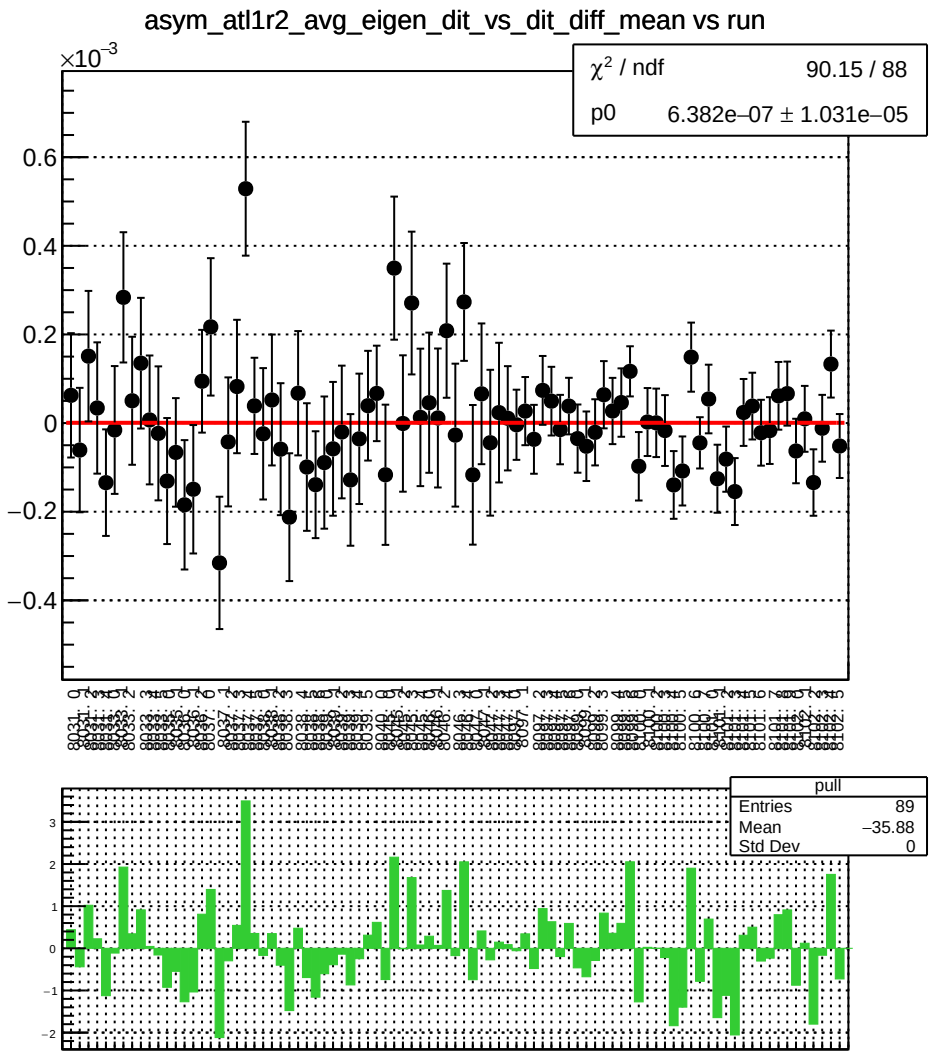

pull1D
Entries 89
Mean −0.01074
Std Dev 1.023

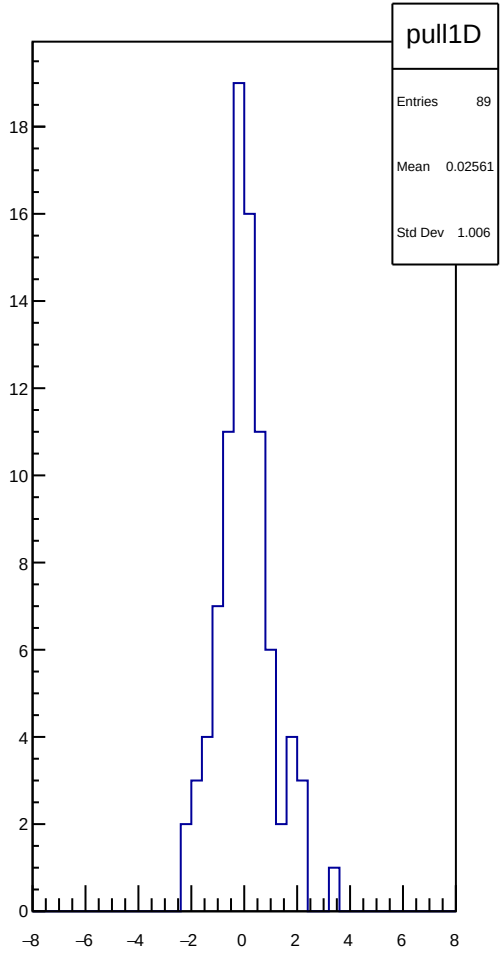

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.025e+05 / 88
p0 176.4 ± 0.1468
600
500
400
300
200
100

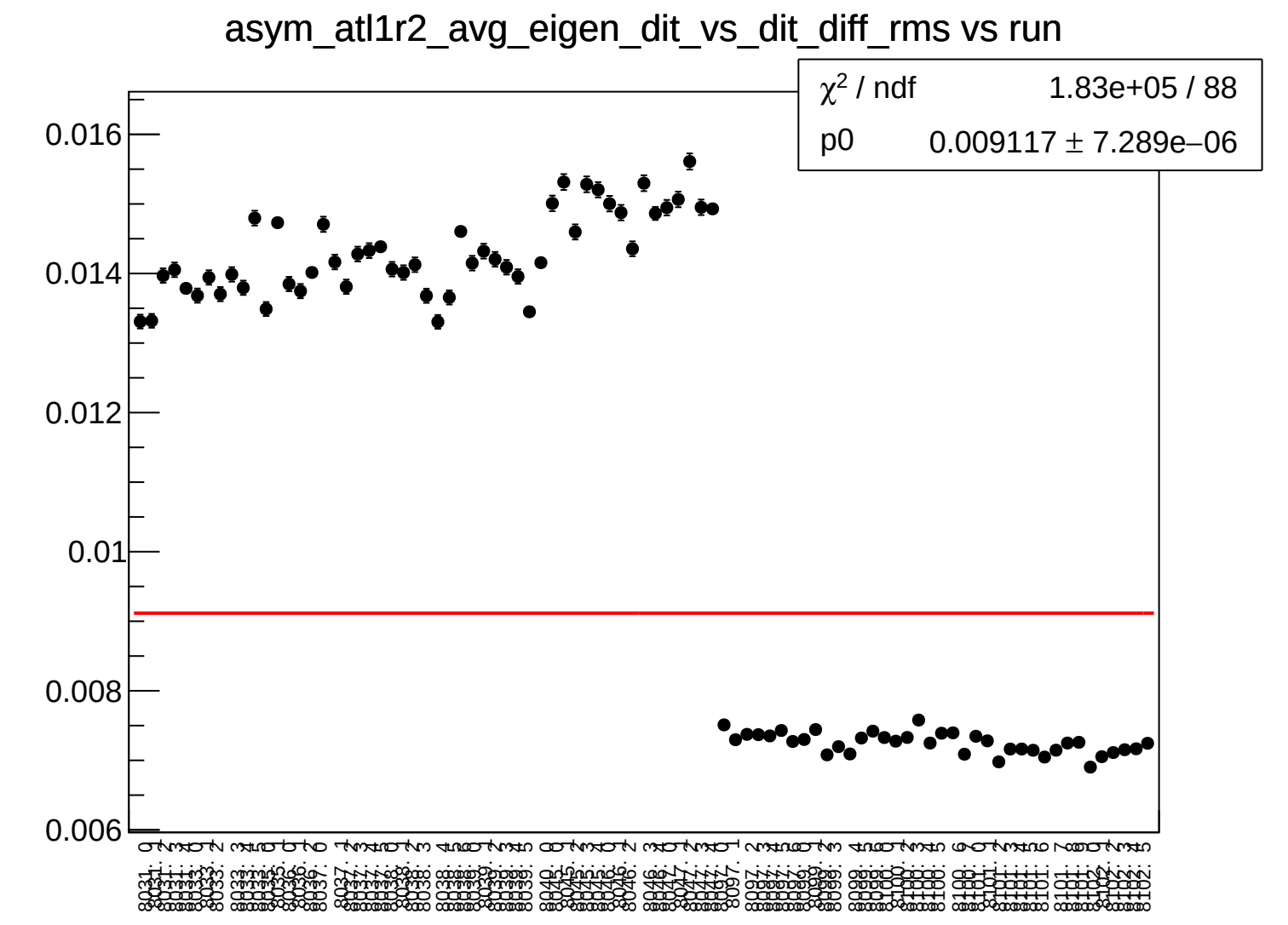

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.17 / 88
p0 −0.231 ± 0.2075
pull
Entries 89
Mean 183.2
Std Dev 0

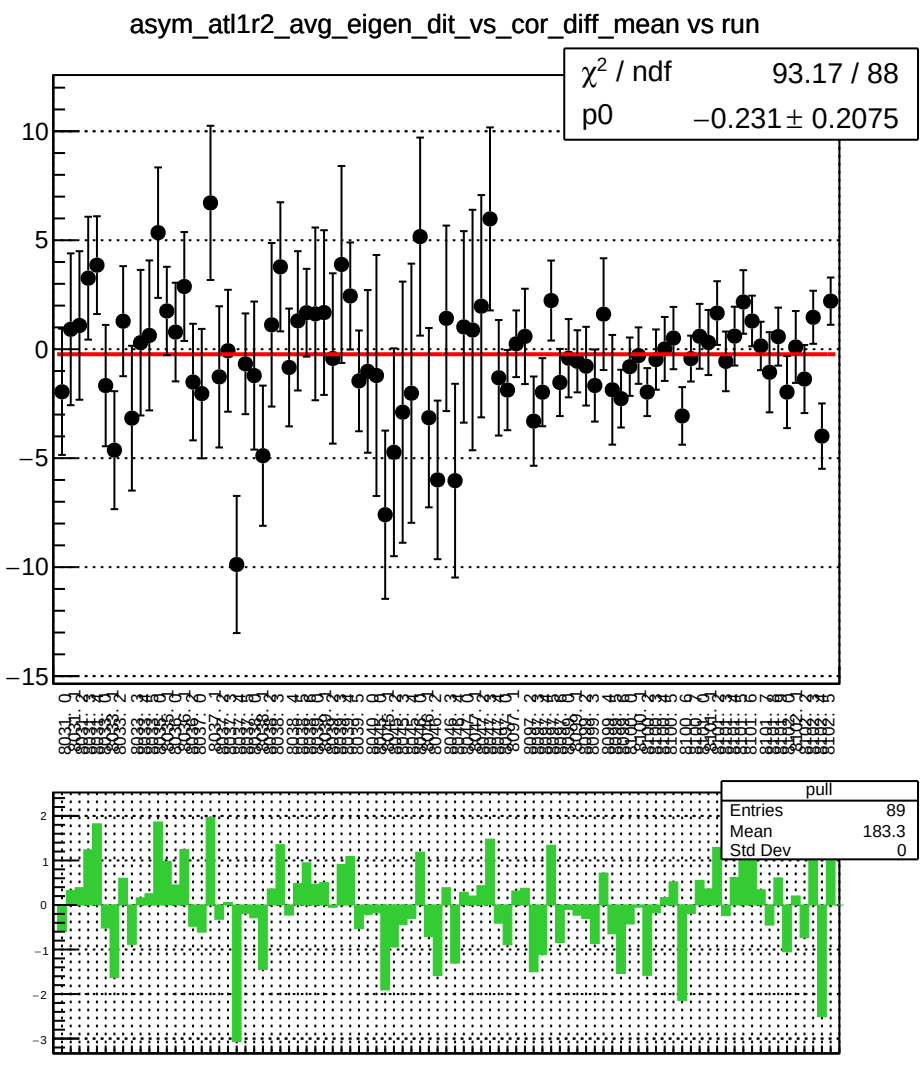

pull1D
Entries 89
Mean −0.01074
Std Dev 1.023

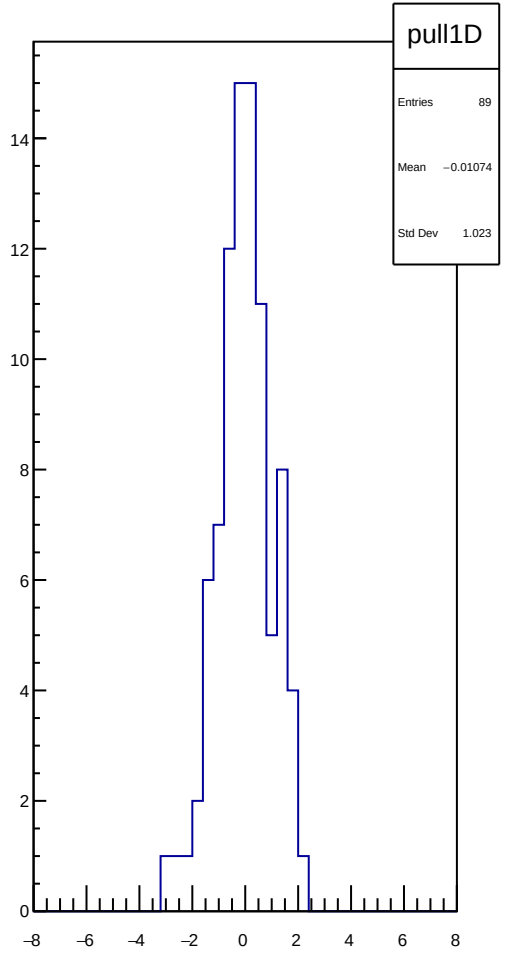

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.025e+05 / 88
p0 176.4 ± 0.1468
600
500
400
300
200
100

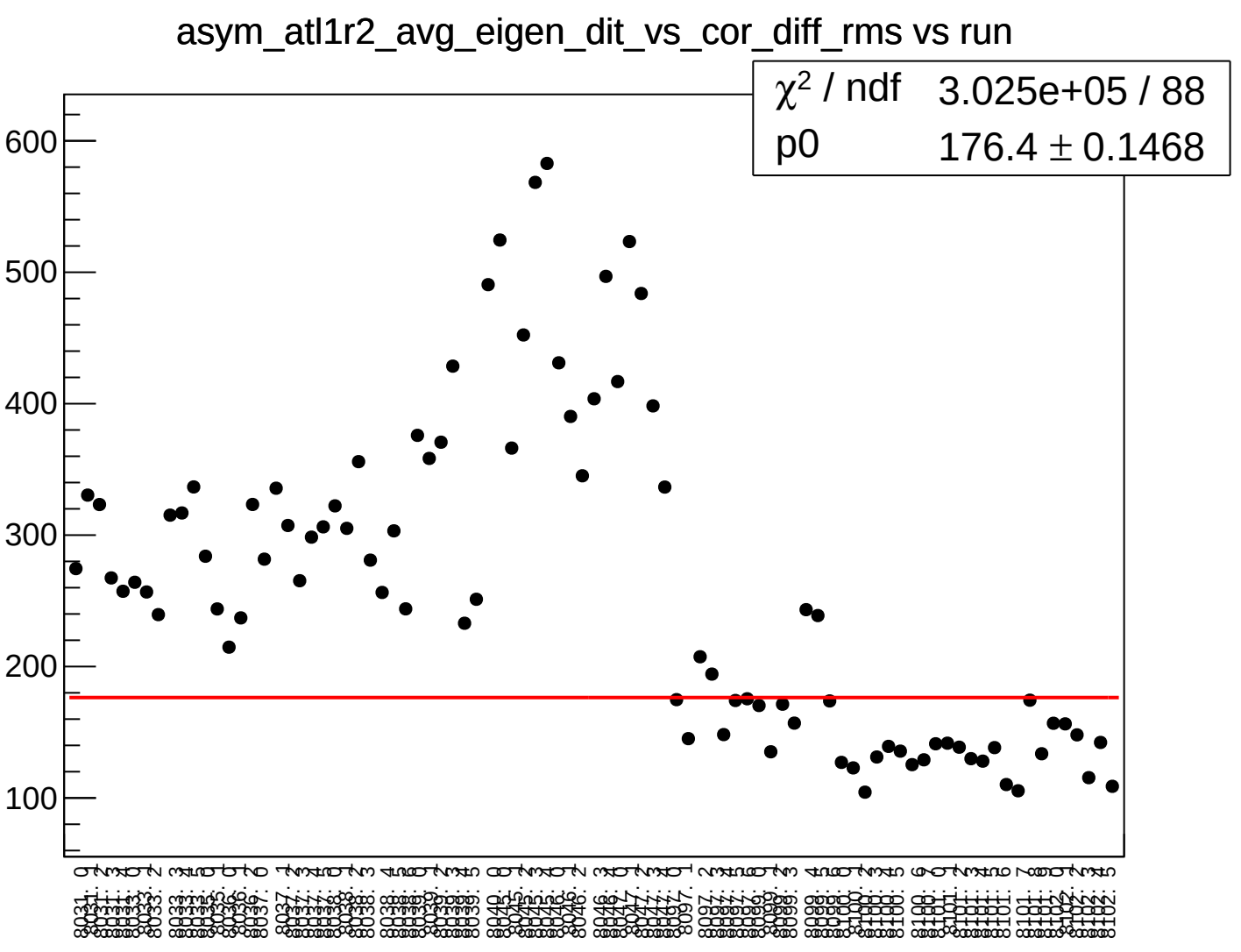

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.15 / 88
p0 6.382e−07 ± 1.031e−05
pull
Entries 89
Mean −35.88
Std Dev 0

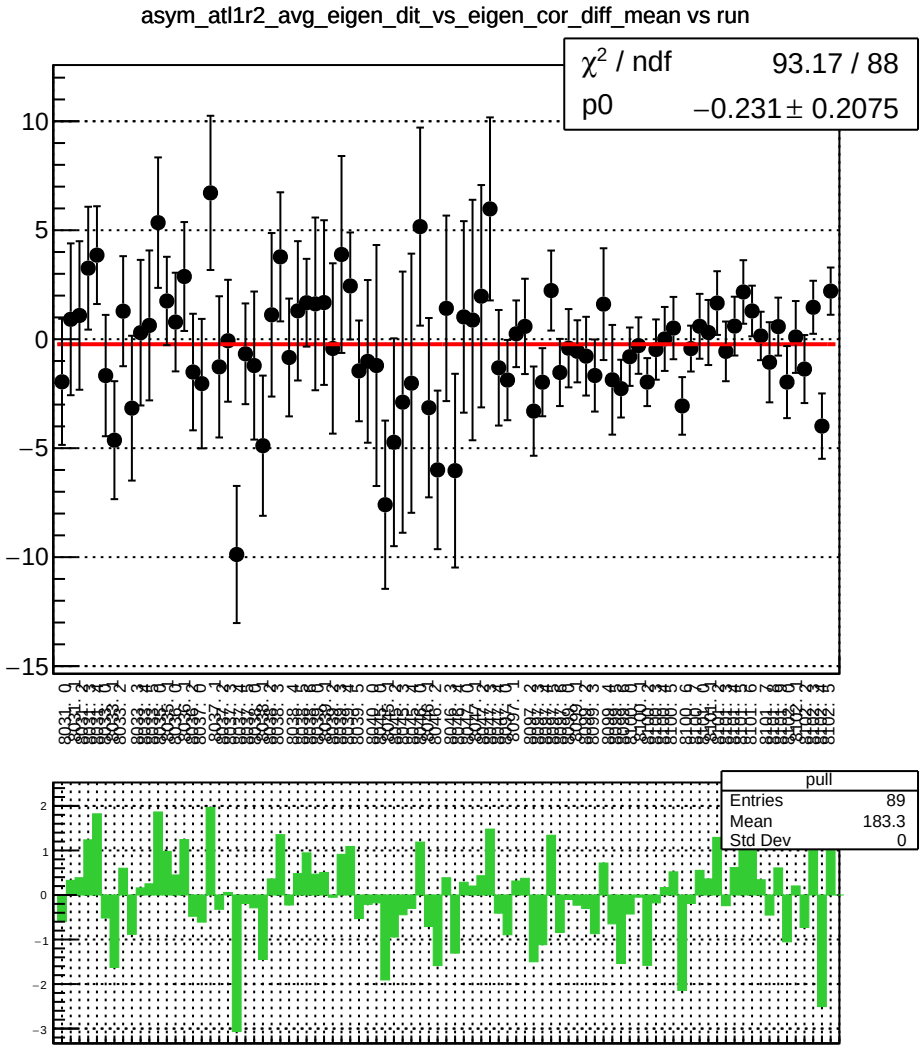

pull1D
Entries 89
Mean 0.02561
Std Dev 1.006

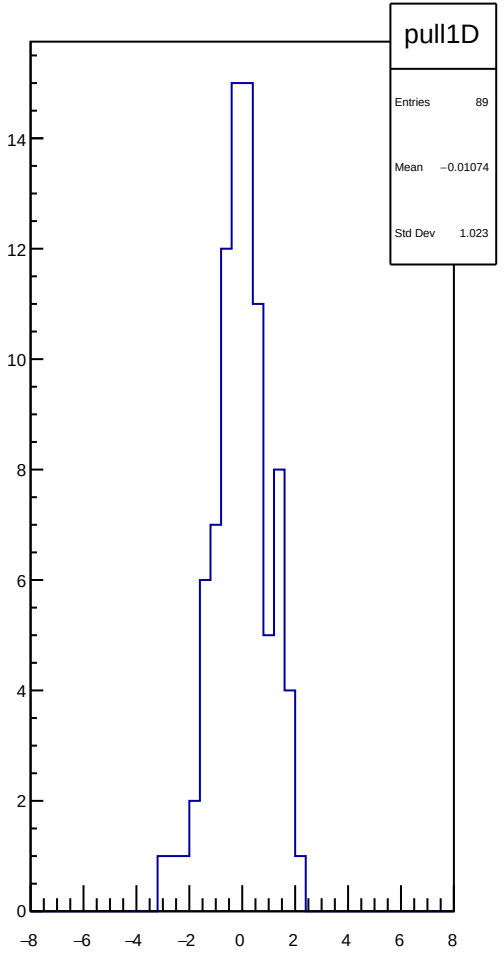

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.83e+05 / 88
p0 0.009117 ± 7.289e−06
0.016
0.014
0.012
0.01
0.008
0.006

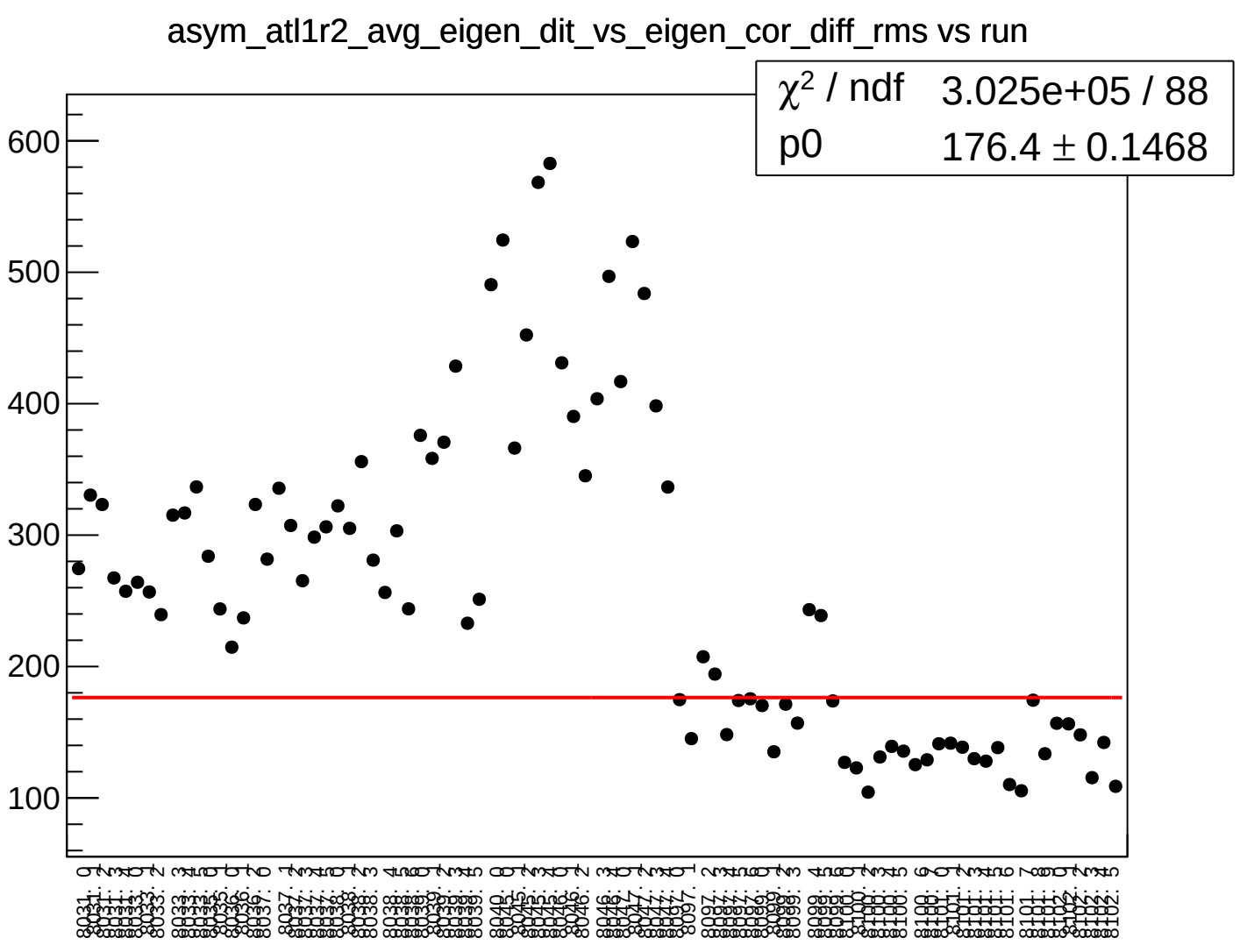

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.17 / 88
p0 −0.231 ± 0.2075
pull
Entries 89
Mean 183.3
Std Dev 0

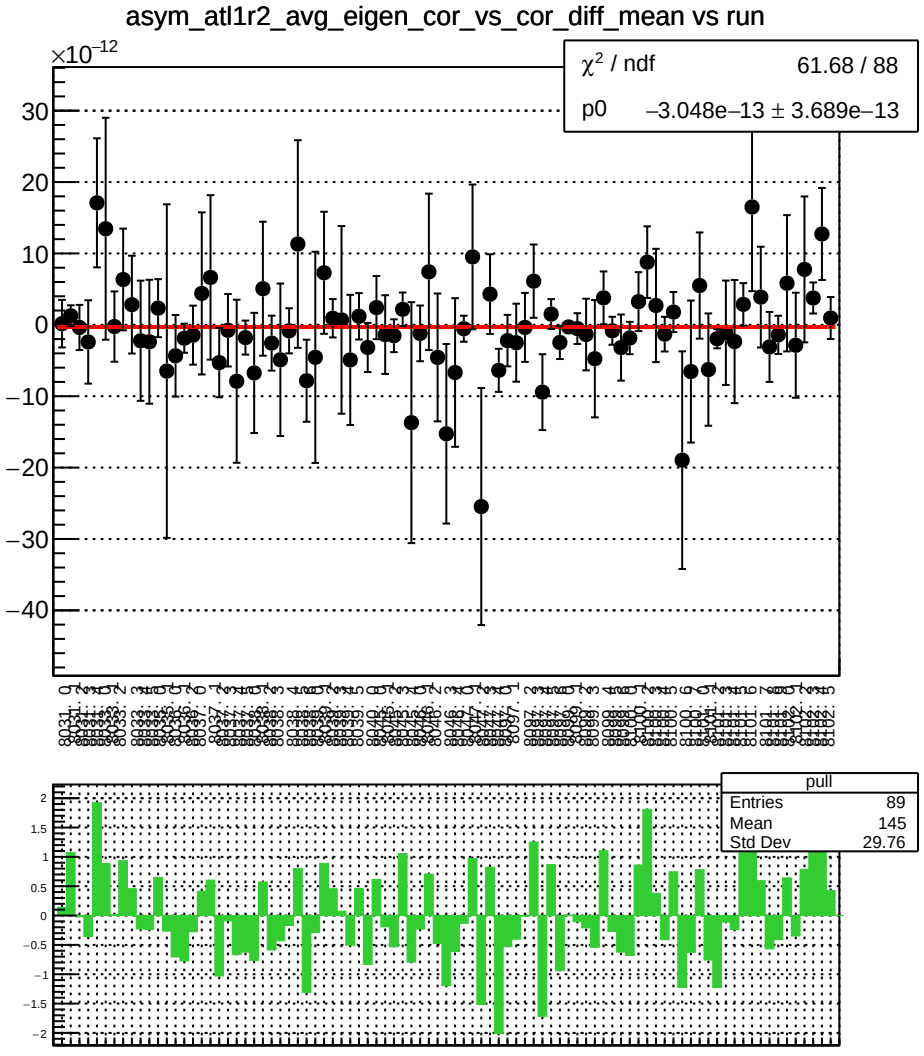

pull1D
Entries 89
Mean −0.01074
Std Dev 1.023

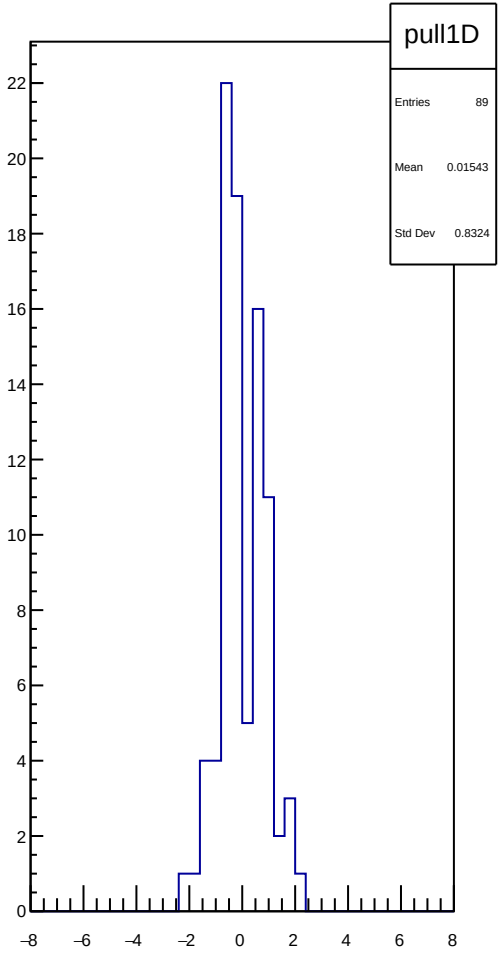

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.025e+05 / 88
p0 176.4 ± 0.1468
600
500
400
300
200
100

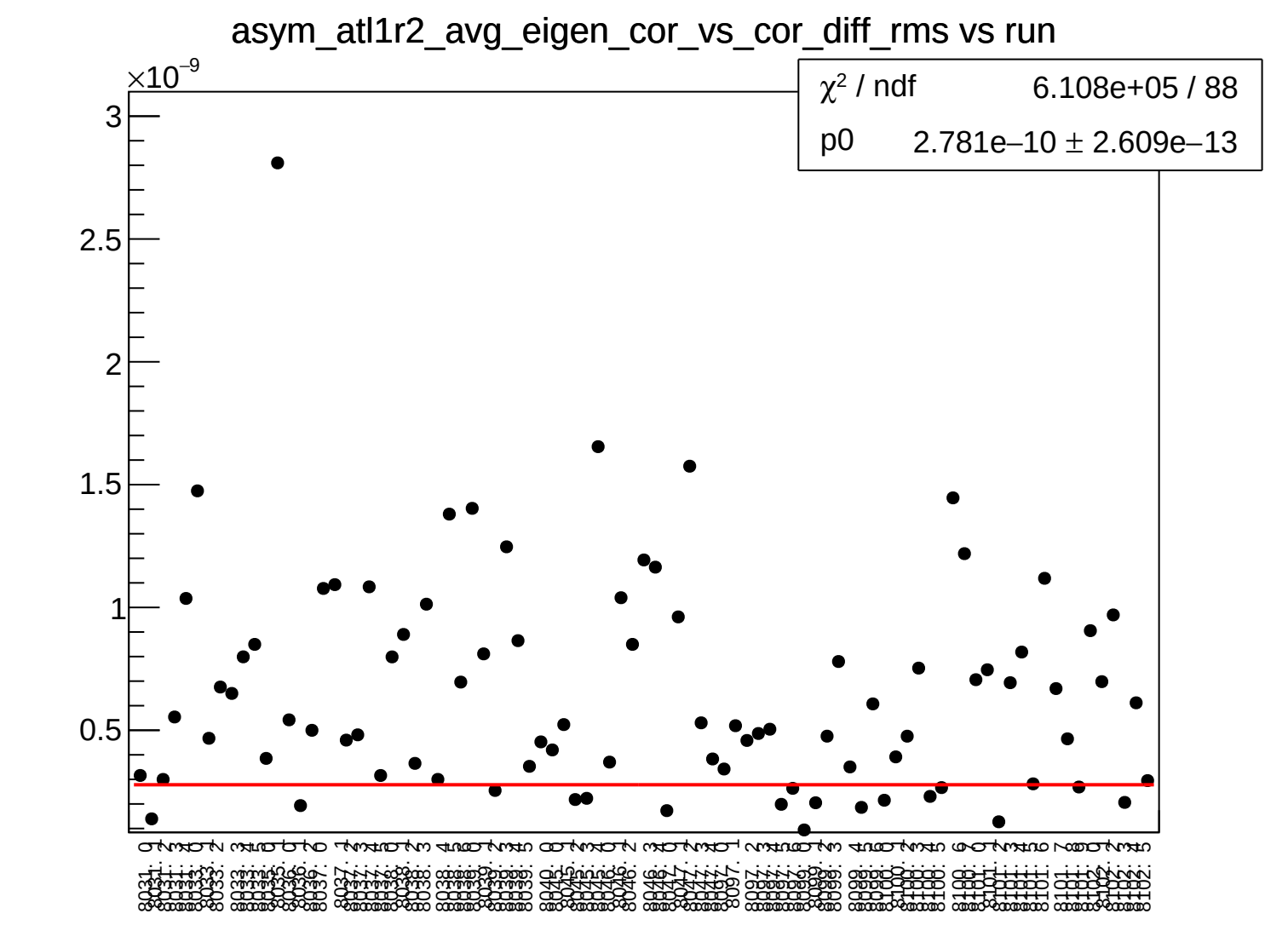

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.17 / 88
p0 −0.231 ± 0.2075
pull
Entries 89
Mean 183.3
Std Dev 0

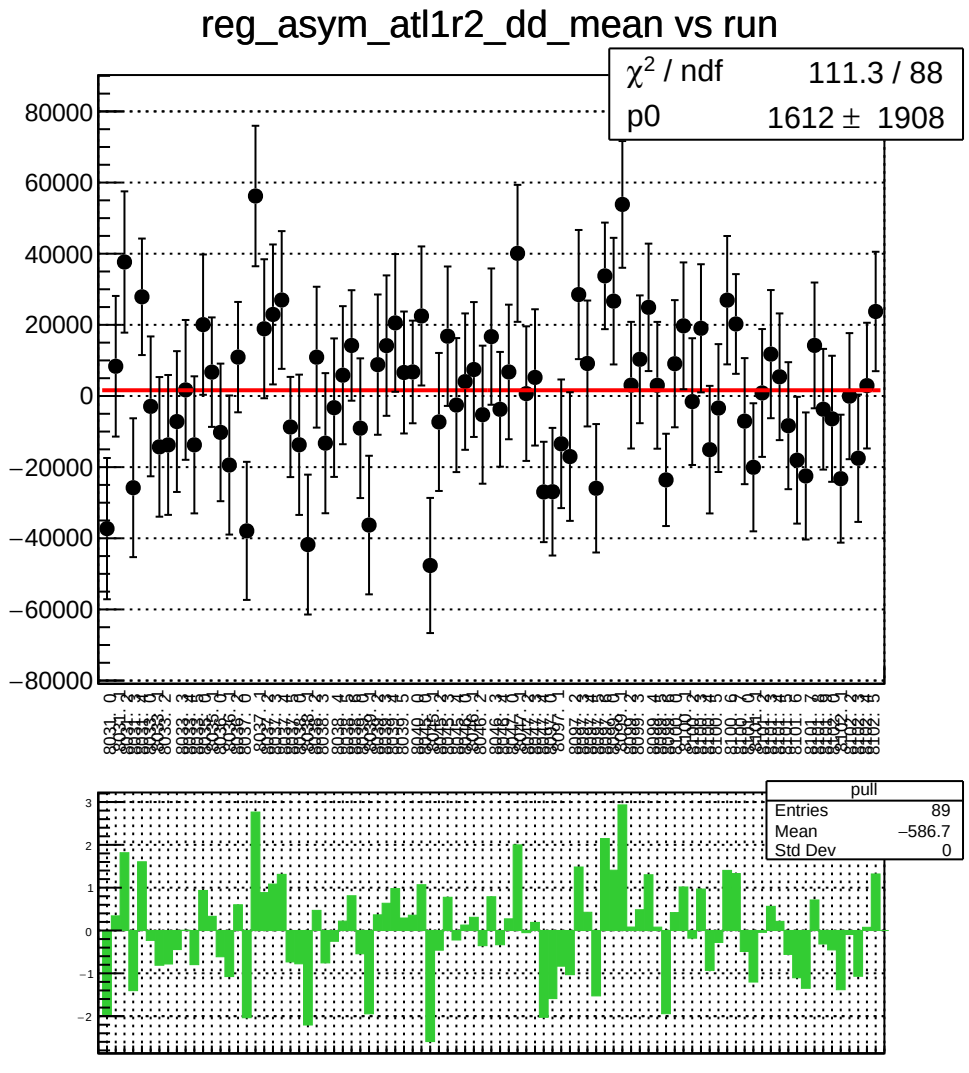

pull1D
Entries 89
Mean −0.01074
Std Dev 1.023

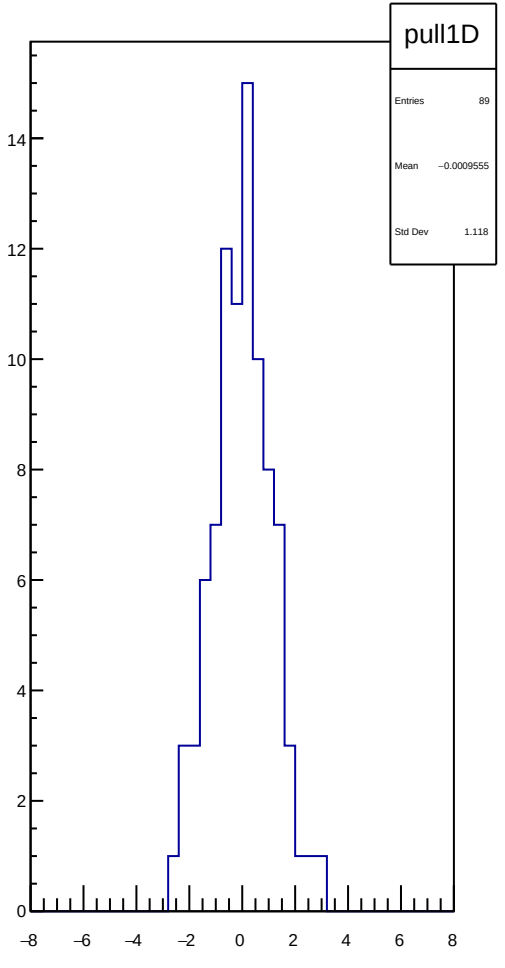

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.025e+05 / 88
p0 176.4 ± 0.1468
600
500
400
300
200
100

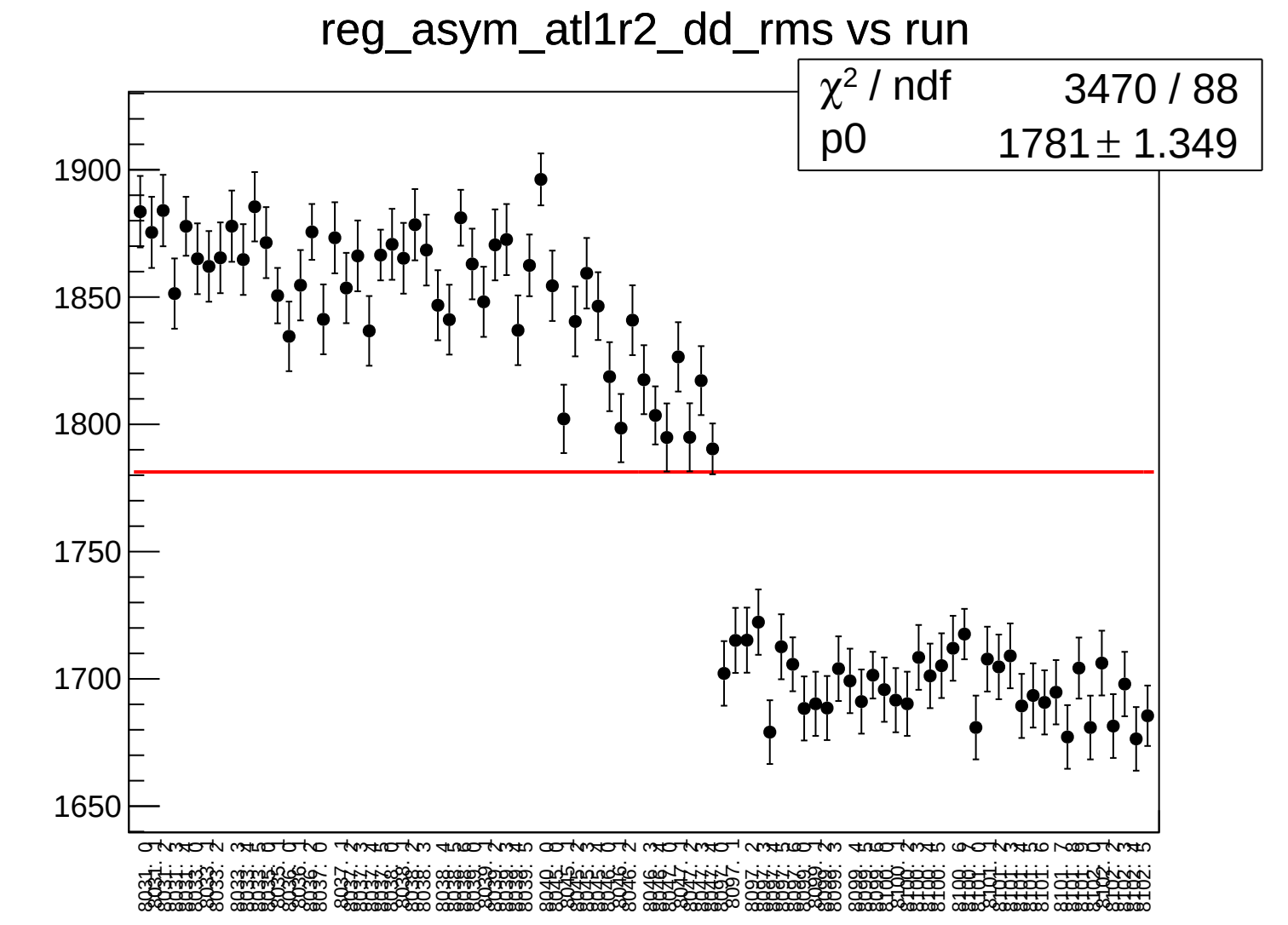

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 61.68 / 88
p0 −3.048e−13 ± 3.689e−13
pull
Entries 89
Mean 145
Std Dev 29.76

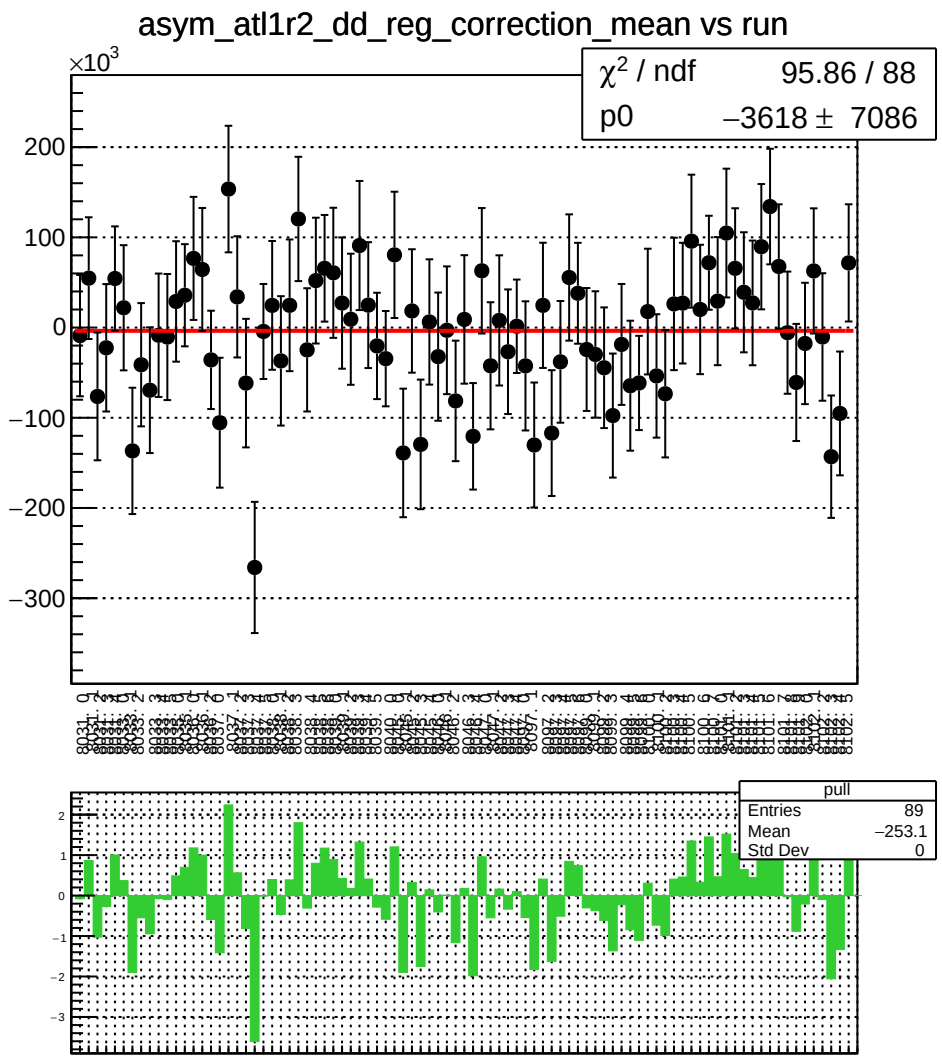

pull1D
Entries 89
Mean 0.01543
Std Dev 0.8324

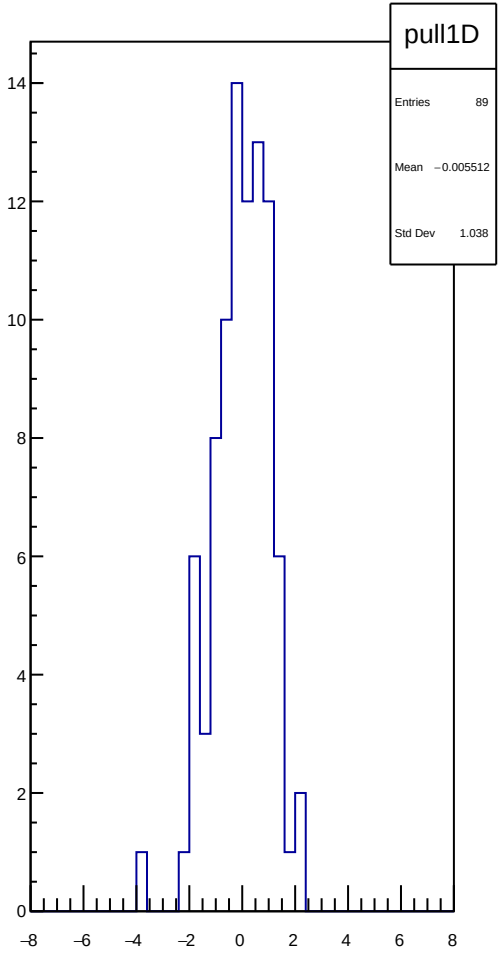

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.108e+05 / 88
p0 2.781e−10 ± 2.609e−13
3
2.5
2
1.5
1
0.5

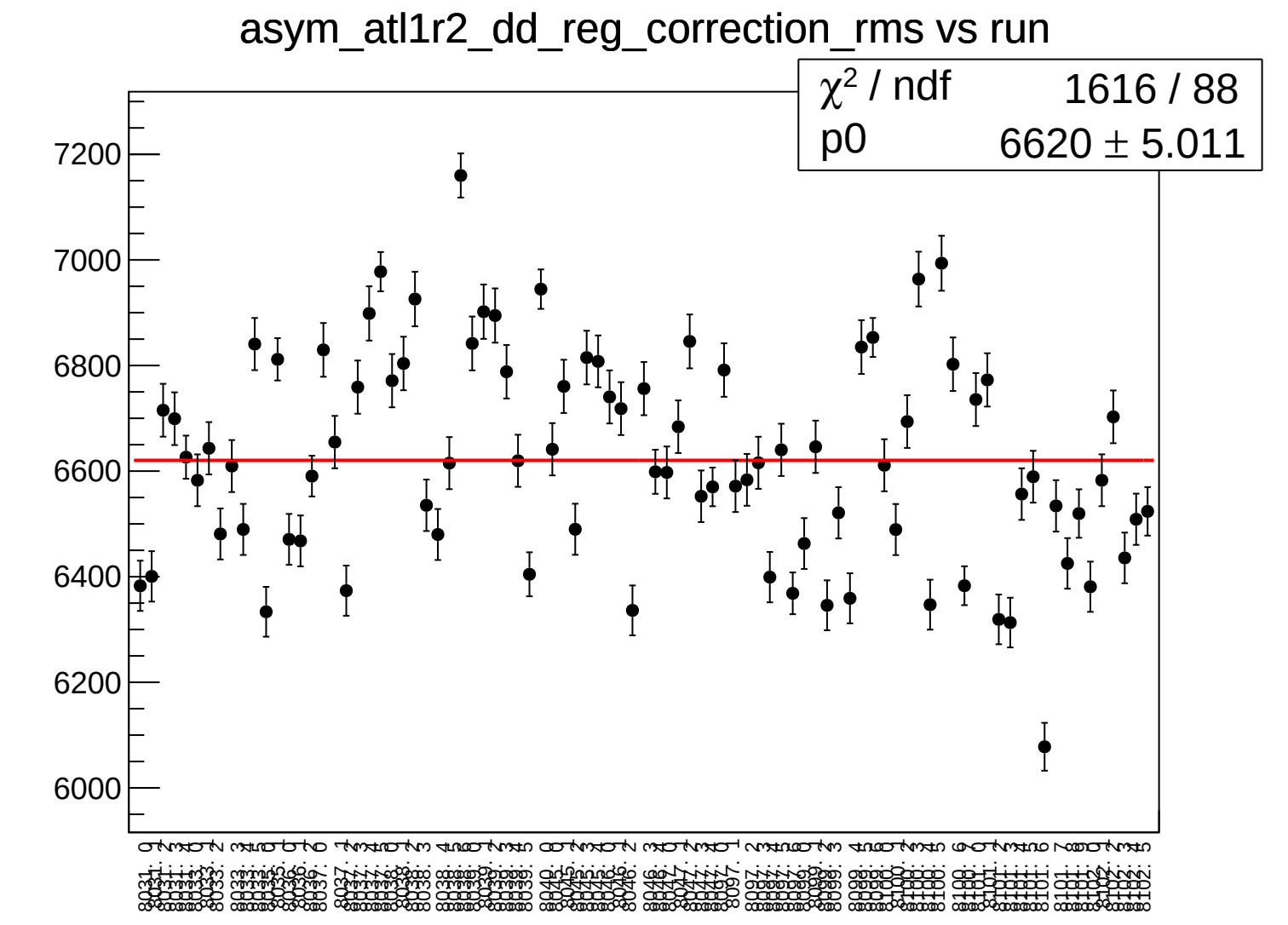

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 111.3 / 88
p0 1612 ± 1908
pull
Entries 89
Mean −586.7
Std Dev 0

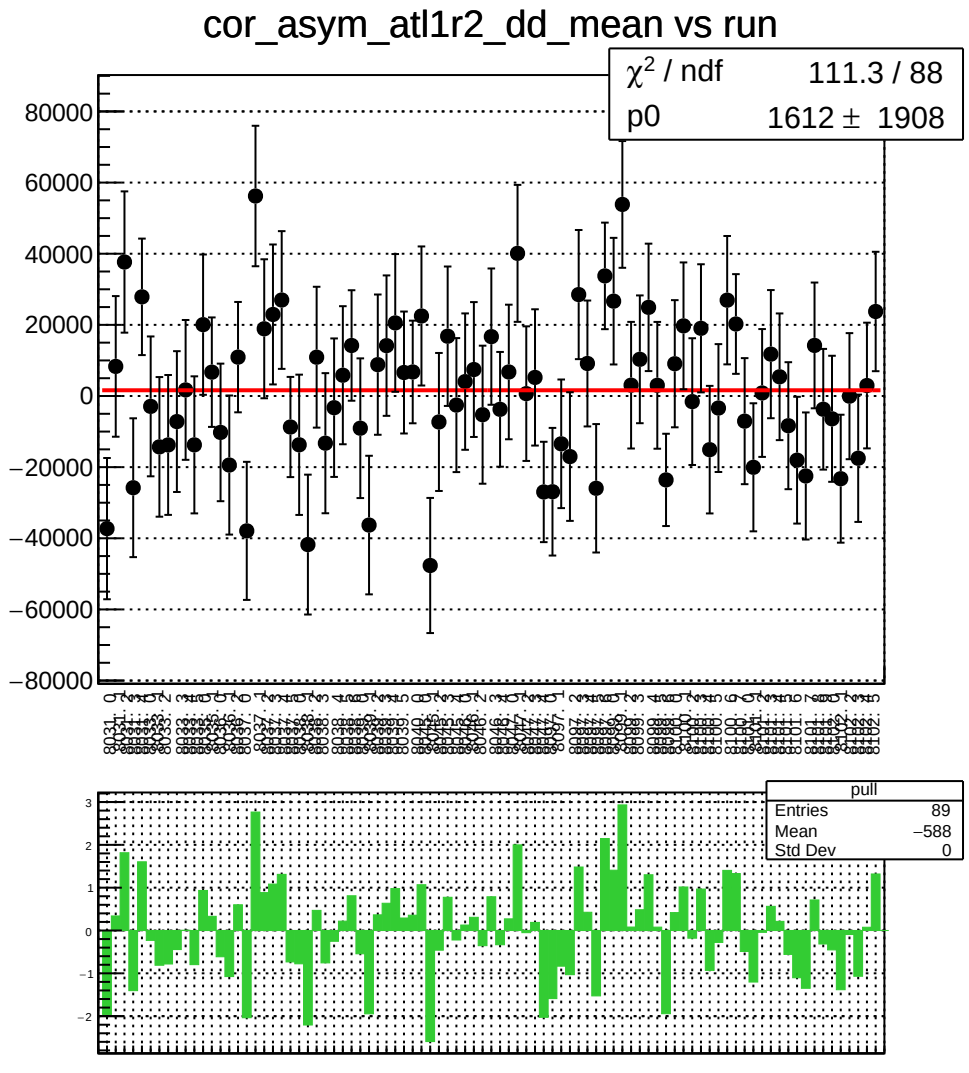

pull1D
Entries 89
Mean −0.0009555
Std Dev 1.118

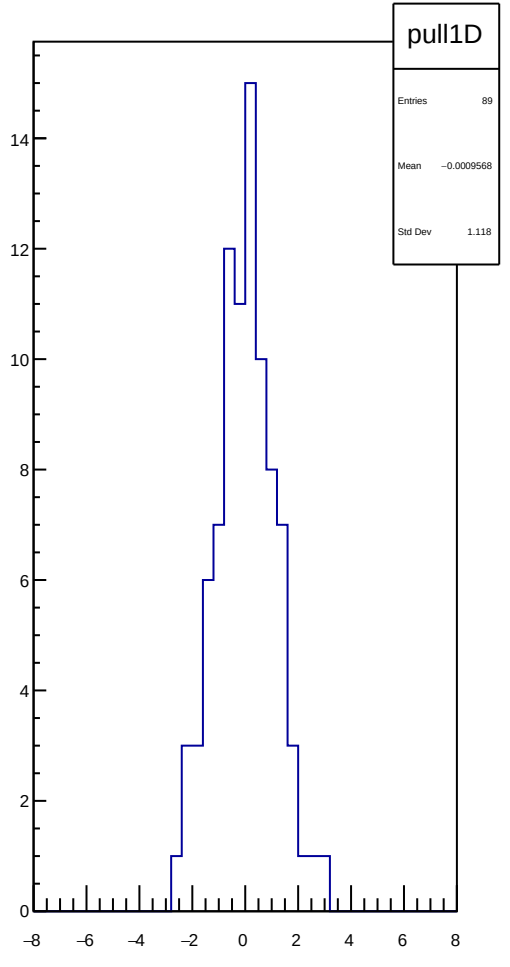

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 3470 / 88
p0 1781 ± 1.349
1900
1850
1800
1750
1700
1650

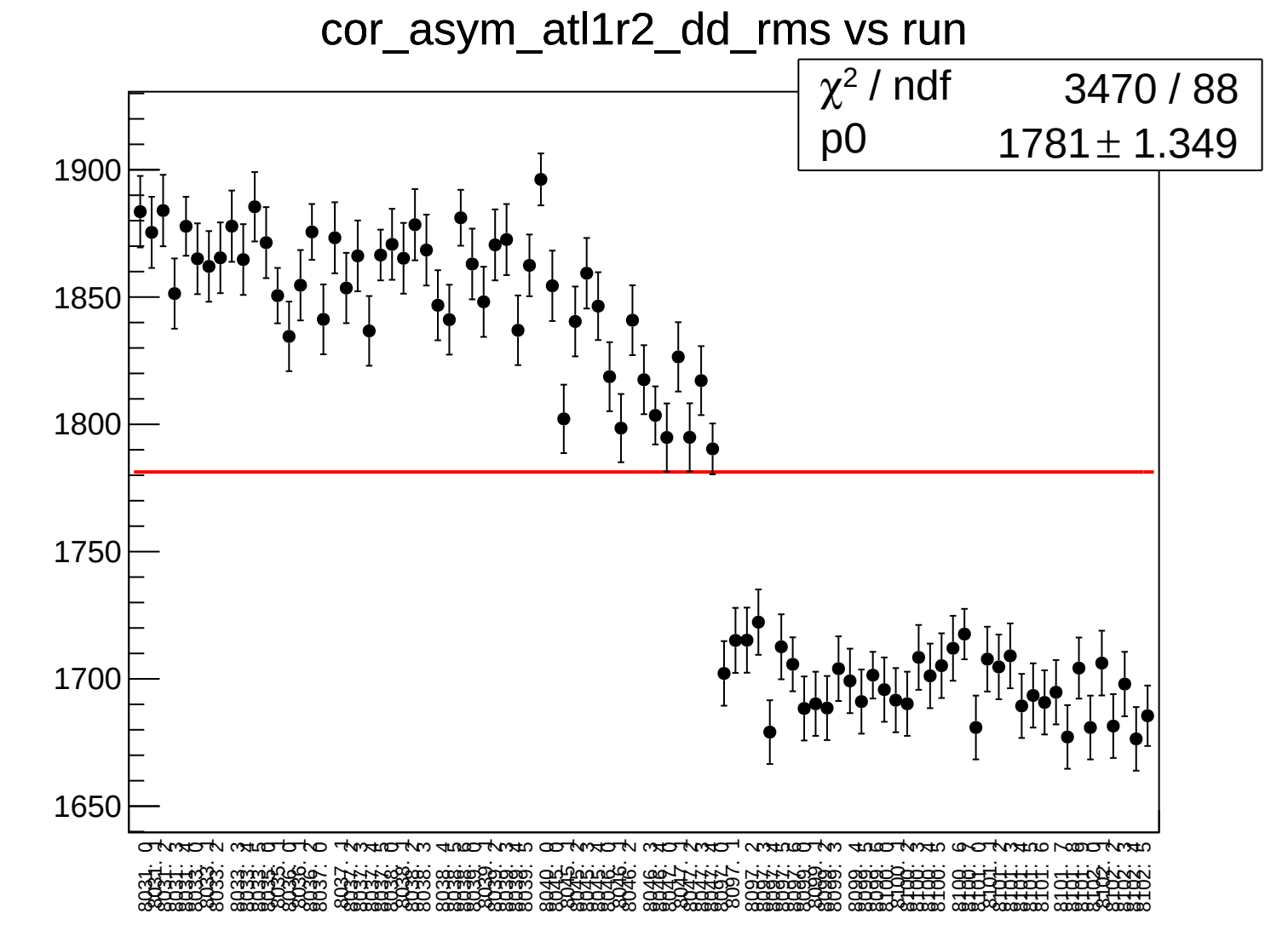

asym_atl1r2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 95.86 / 88
p0 −3618 ± 7086
200
100
0
−100
−200
−300
pull
Entries 89
Mean −253.1
Std Dev 0
2
1
0
−1
−2
−3

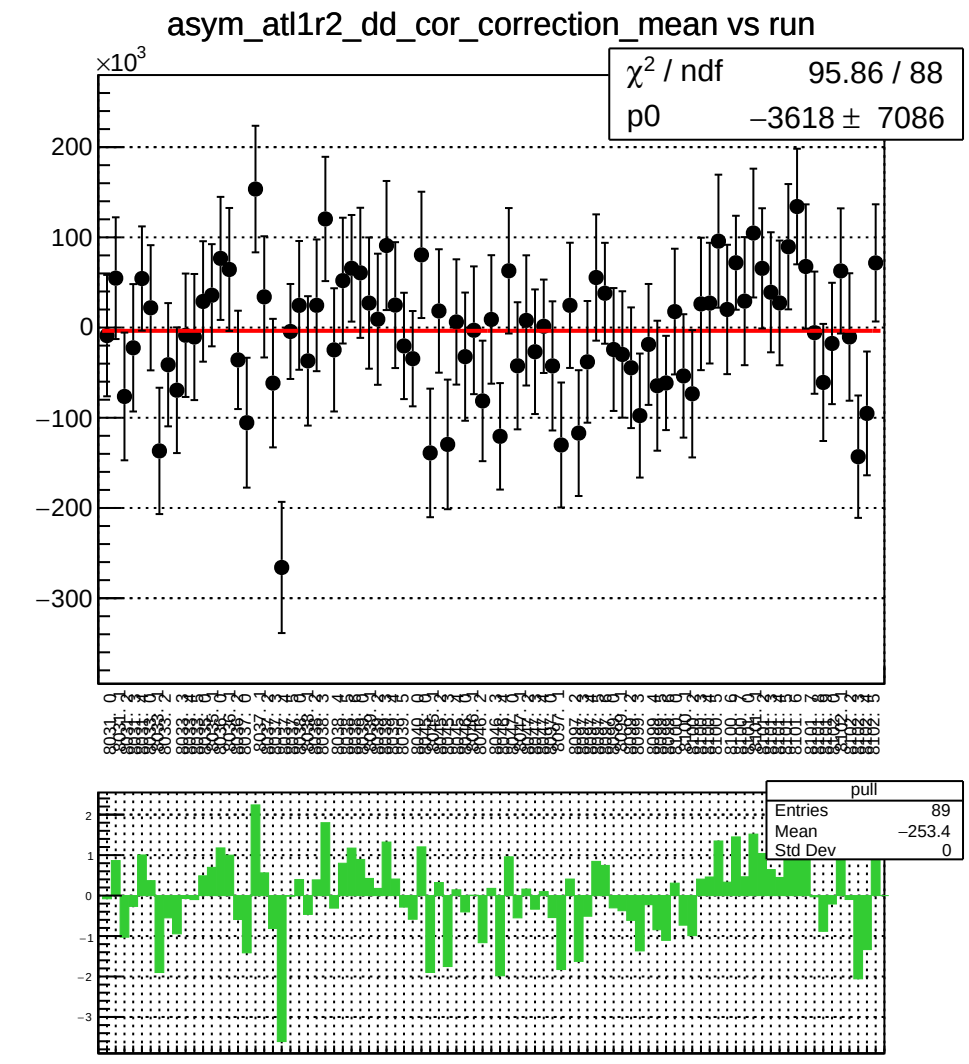

pull1D
Entries 89
Mean −0.005512
Std Dev 1.038
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

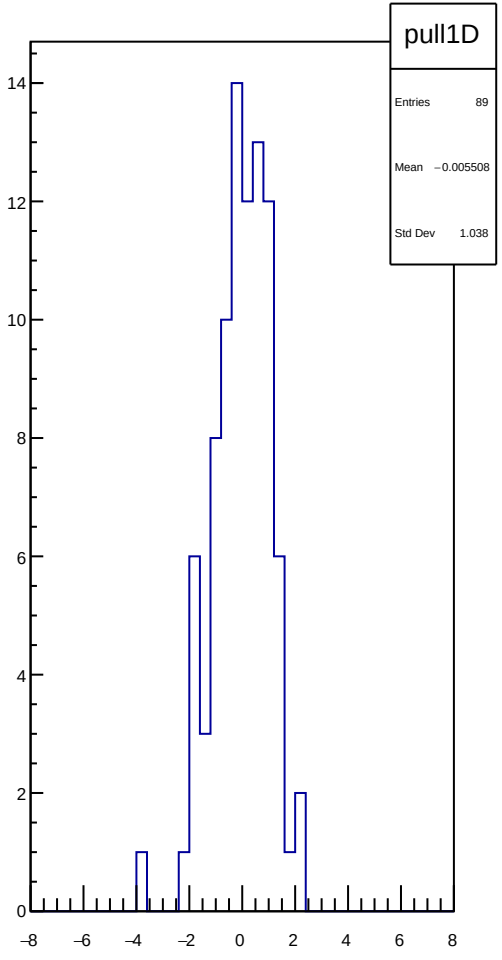

asym_atl1r2_dd_reg_correction_rms vs run
χ² / ndf 1616 / 88
p0 6620 ± 5.011
7200
7000
6800
6600
6400
6200
6000

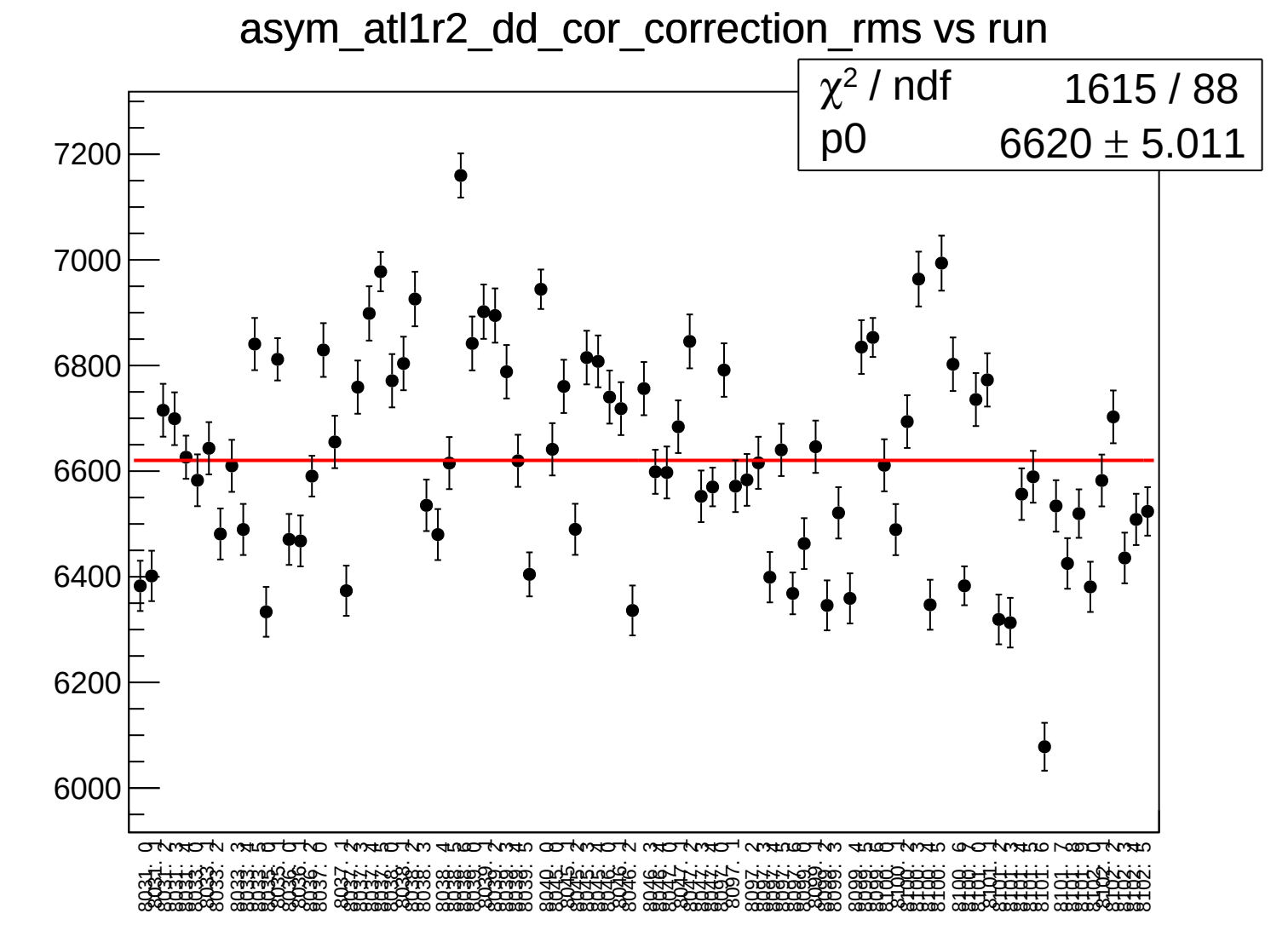

cor_asym_atl1r2_dd_mean vs run
χ² / ndf 111.3 / 88
p0 1612 ± 1908
pull
Entries 89
Mean −588
Std Dev 0

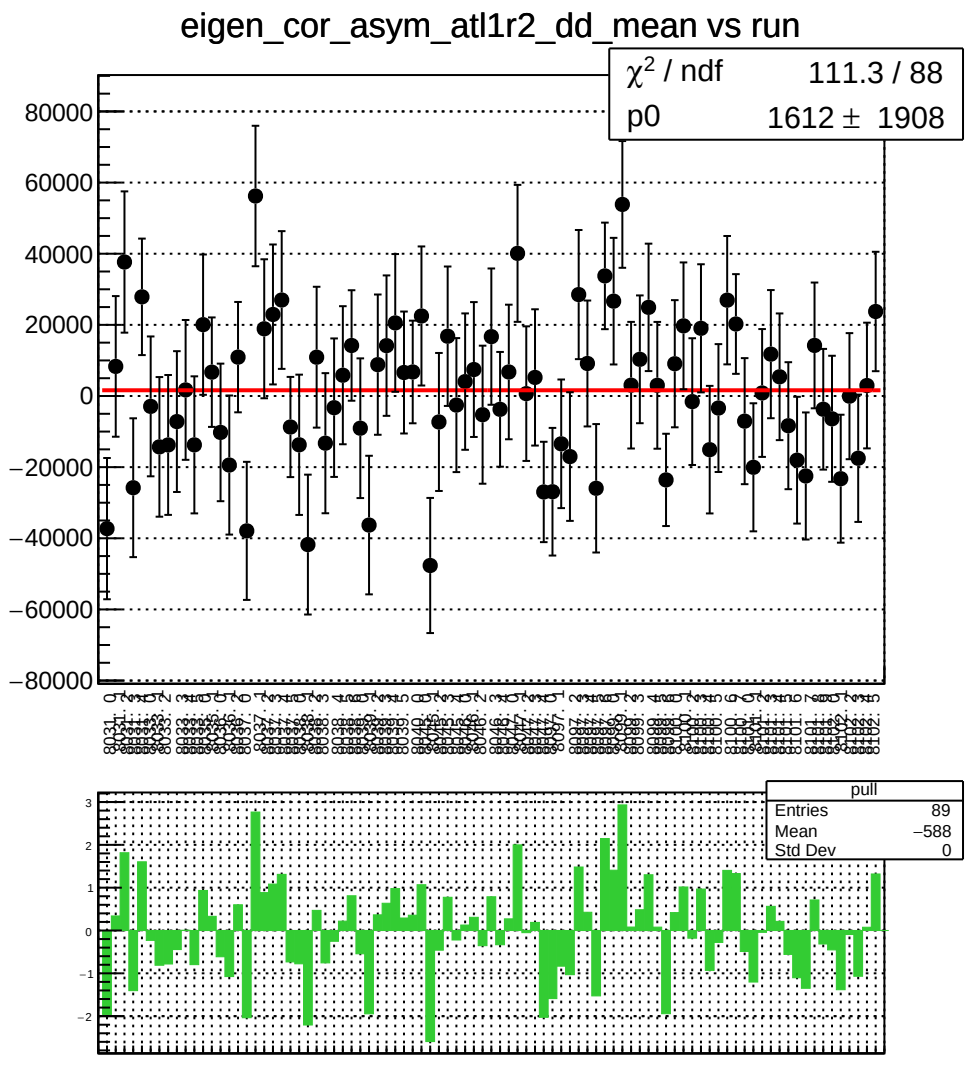

pull1D
Entries 89
Mean −0.0009568
Std Dev 1.118

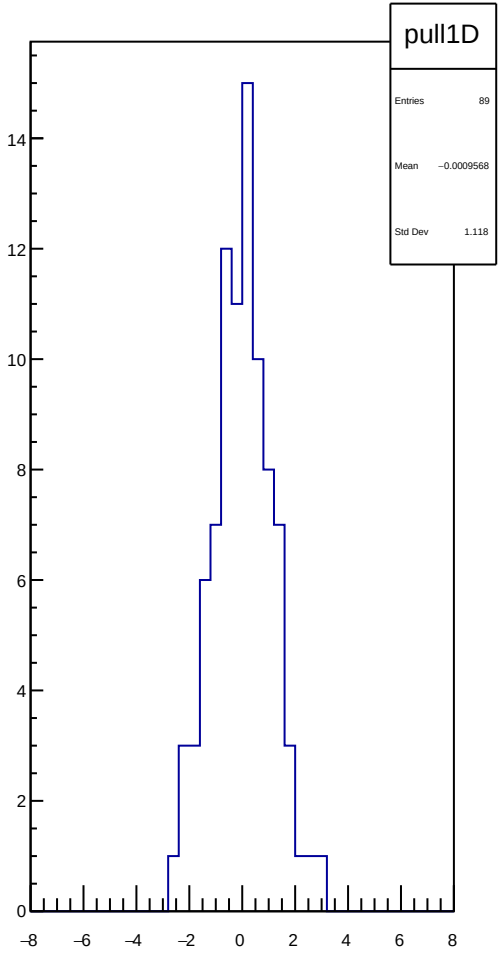

cor_asym_atl1r2_dd_rms vs run
χ² / ndf 3470 / 88
p0 1781 ± 1.349
1900
1850
1800
1750
1700
1650

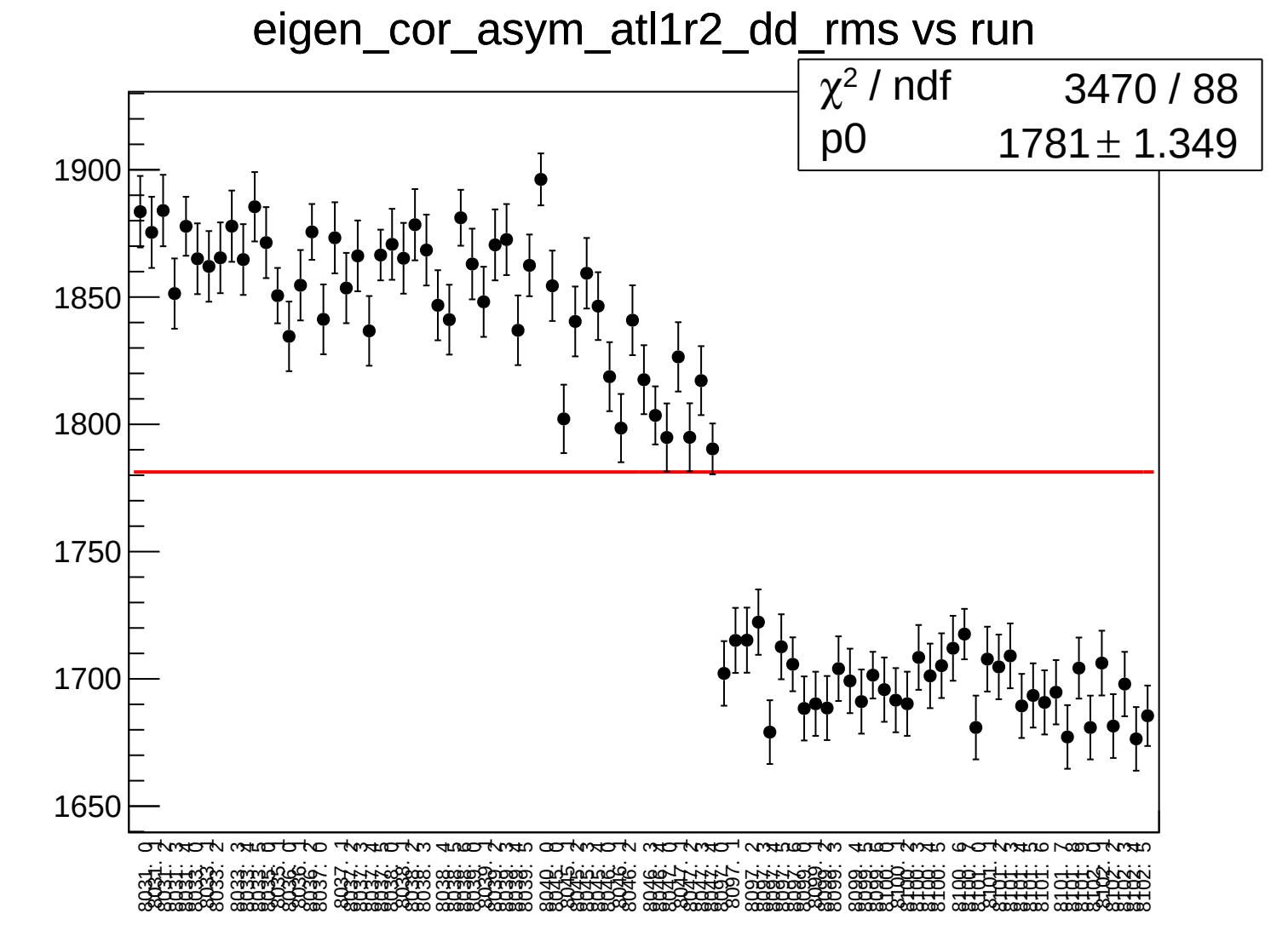

asym_atl1r2_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 95.86 / 88
p0 −3618 ± 7086
200
100
0
−100
−200
−300
pull
Entries 89
Mean −253.4
Std Dev 0
2
1
0
−1
−2
−3

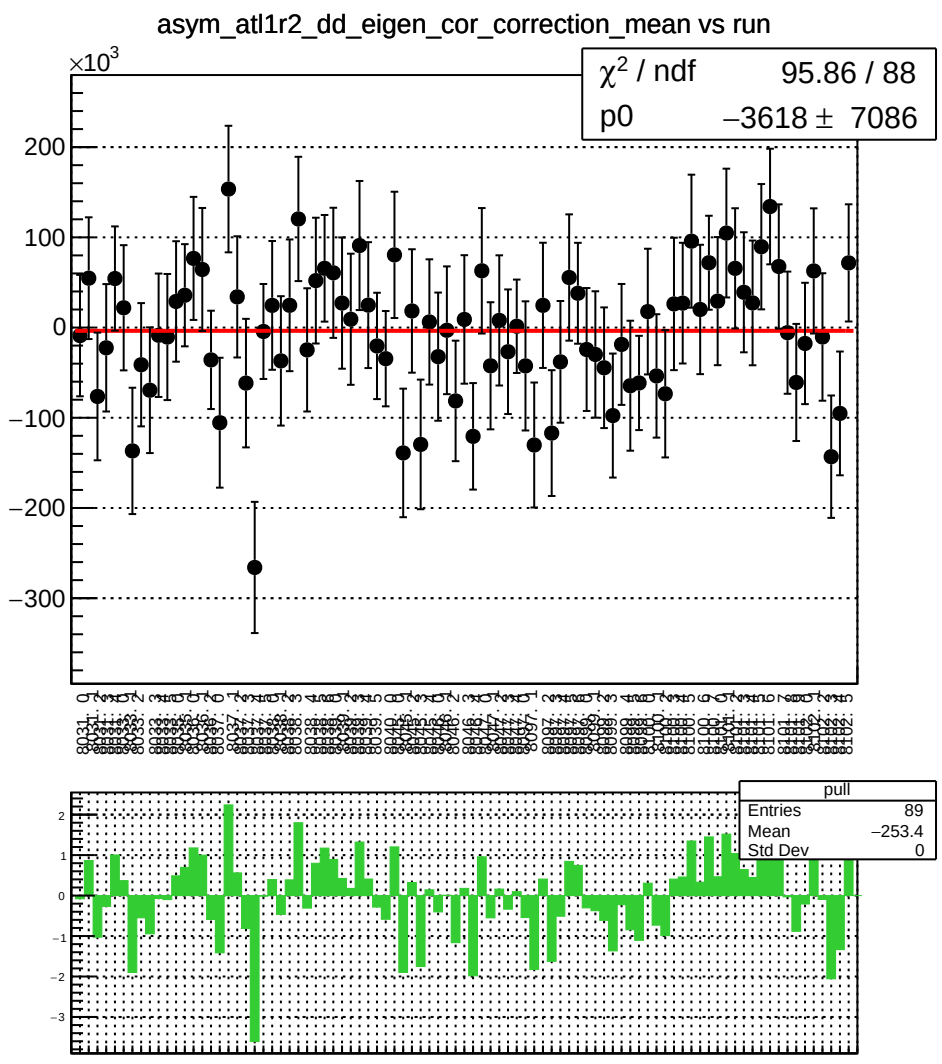

pull1D
Entries 89
Mean −0.005508
Std Dev 1.038
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

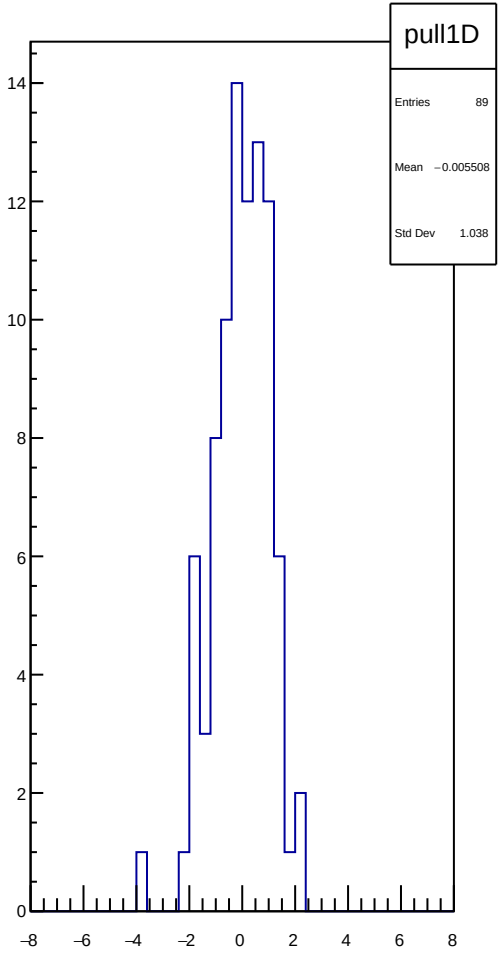

asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 1615 / 88
p0 6620 ± 5.011
7200
7000
6800
6600
6400
6200
6000

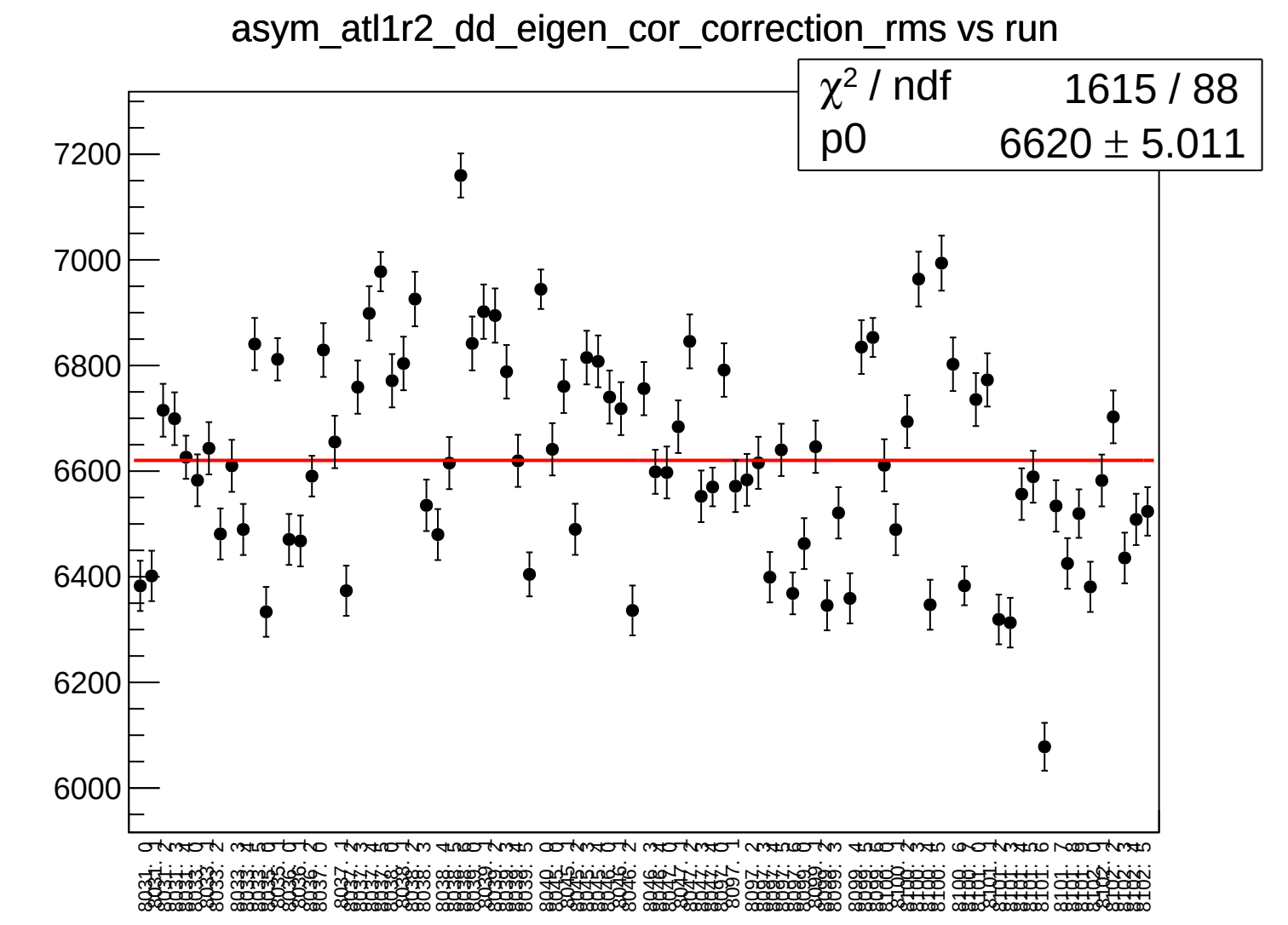

eigen_cor_asym_atl1r2_dd_mean vs run
χ² / ndf 111.3 / 88
p0 1612 ± 1908
pull
Entries 89
Mean −588
Std Dev 0

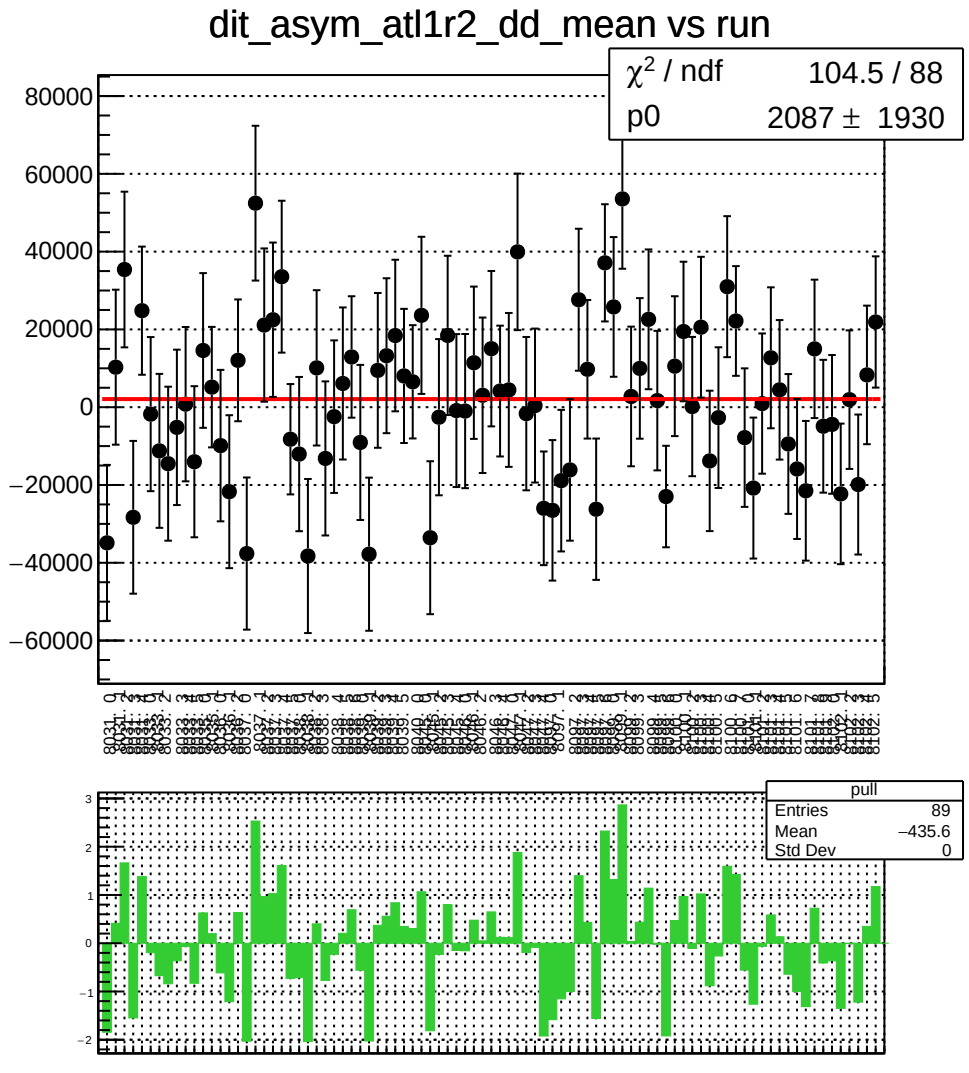

pull1D
Entries 89
Mean −0.0009568
Std Dev 1.118

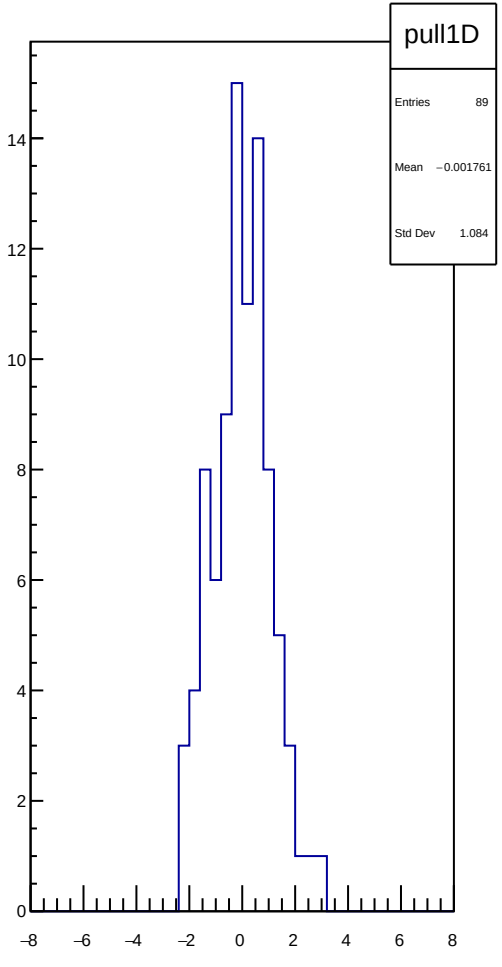

eigen_cor_asym_atl1r2_dd_rms vs run
χ² / ndf 3470 / 88
p0 1781 ± 1.349
1900
1850
1800
1750
1700
1650

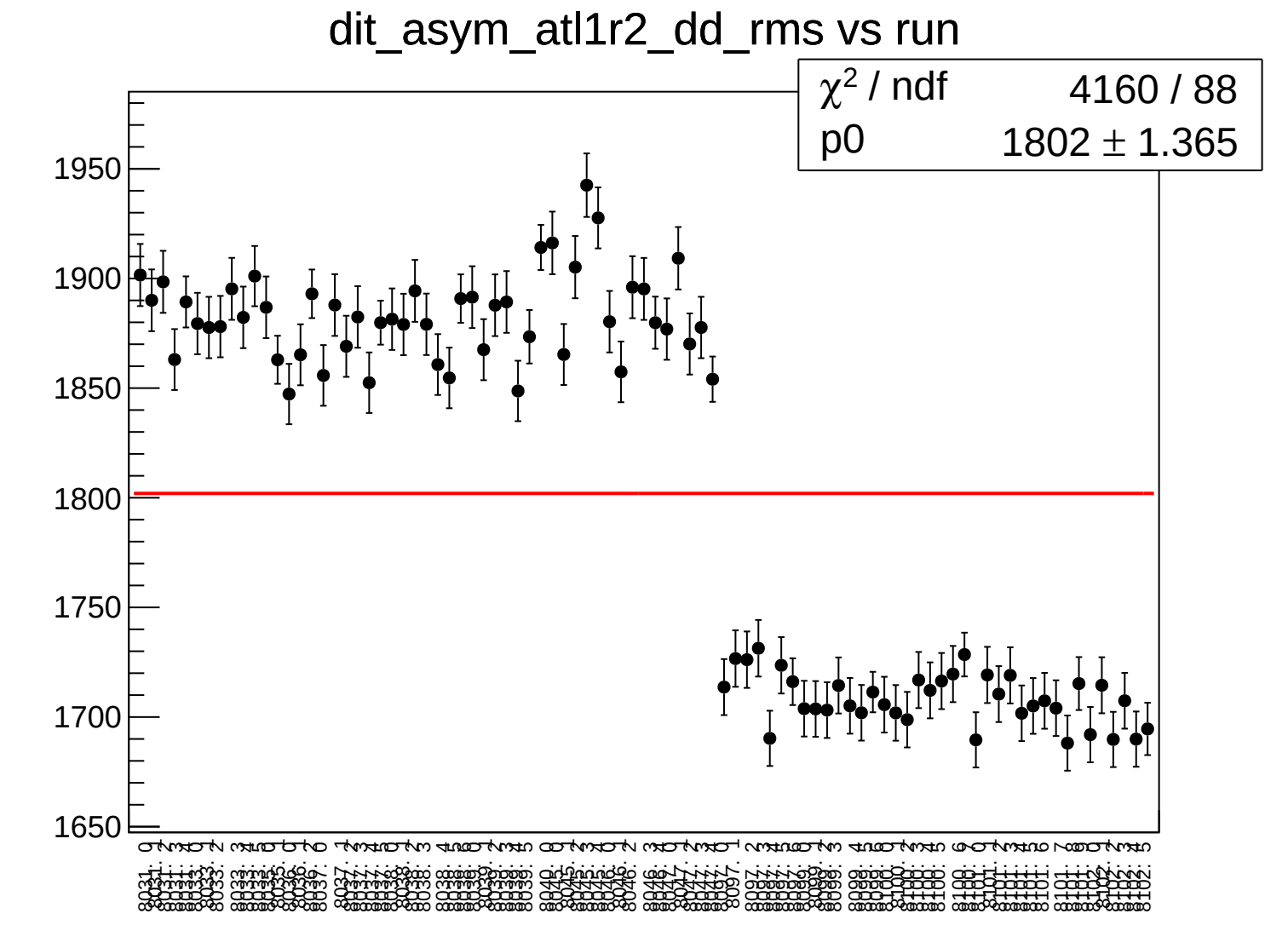

asym_atl1r2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 95.86 / 88
p0 −3618 ± 7086
200
100
0
−100
−200
−300
pull
Entries 89
Mean −253.4
Std Dev 0
2
1
0
−1
−2
−3

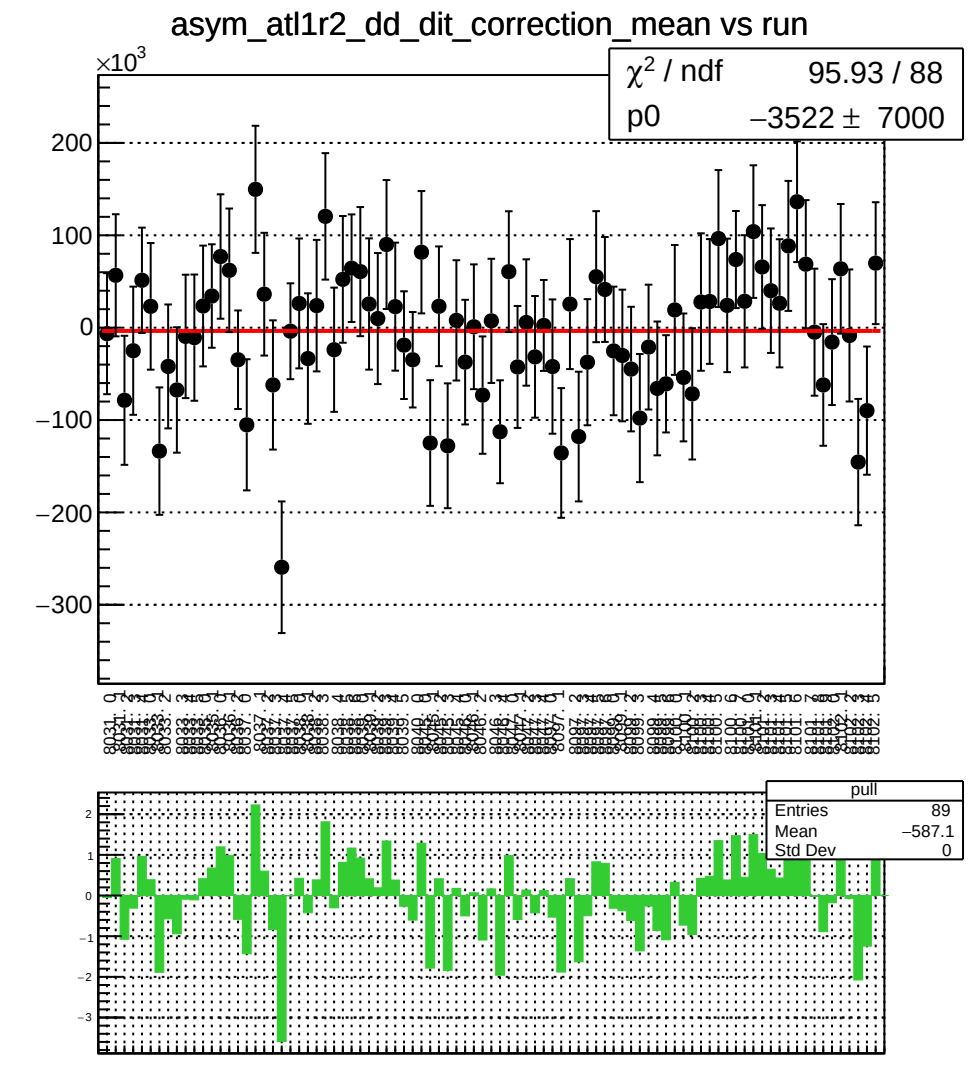

pull1D
Entries 89
Mean −0.005508
Std Dev 1.038
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

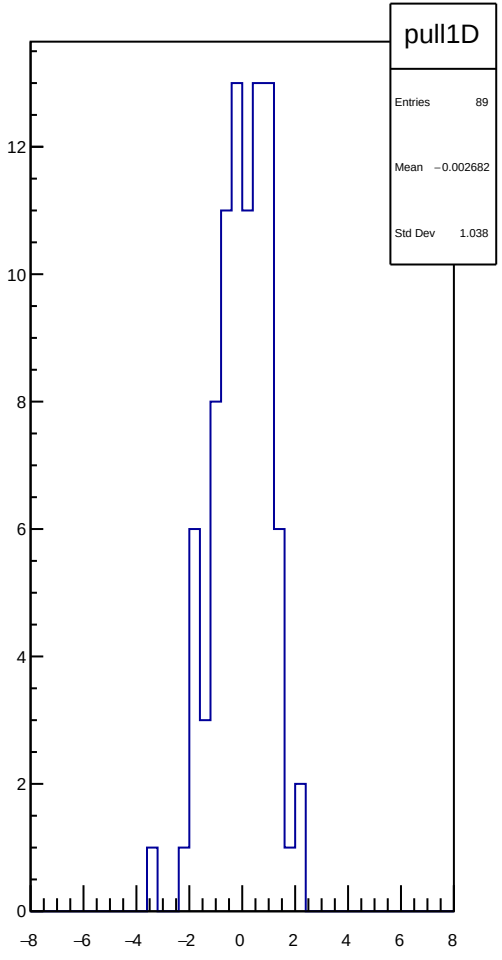

asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1615 / 88
p0 6620 ± 5.011
7200
7000
6800
6600
6400
6200
6000

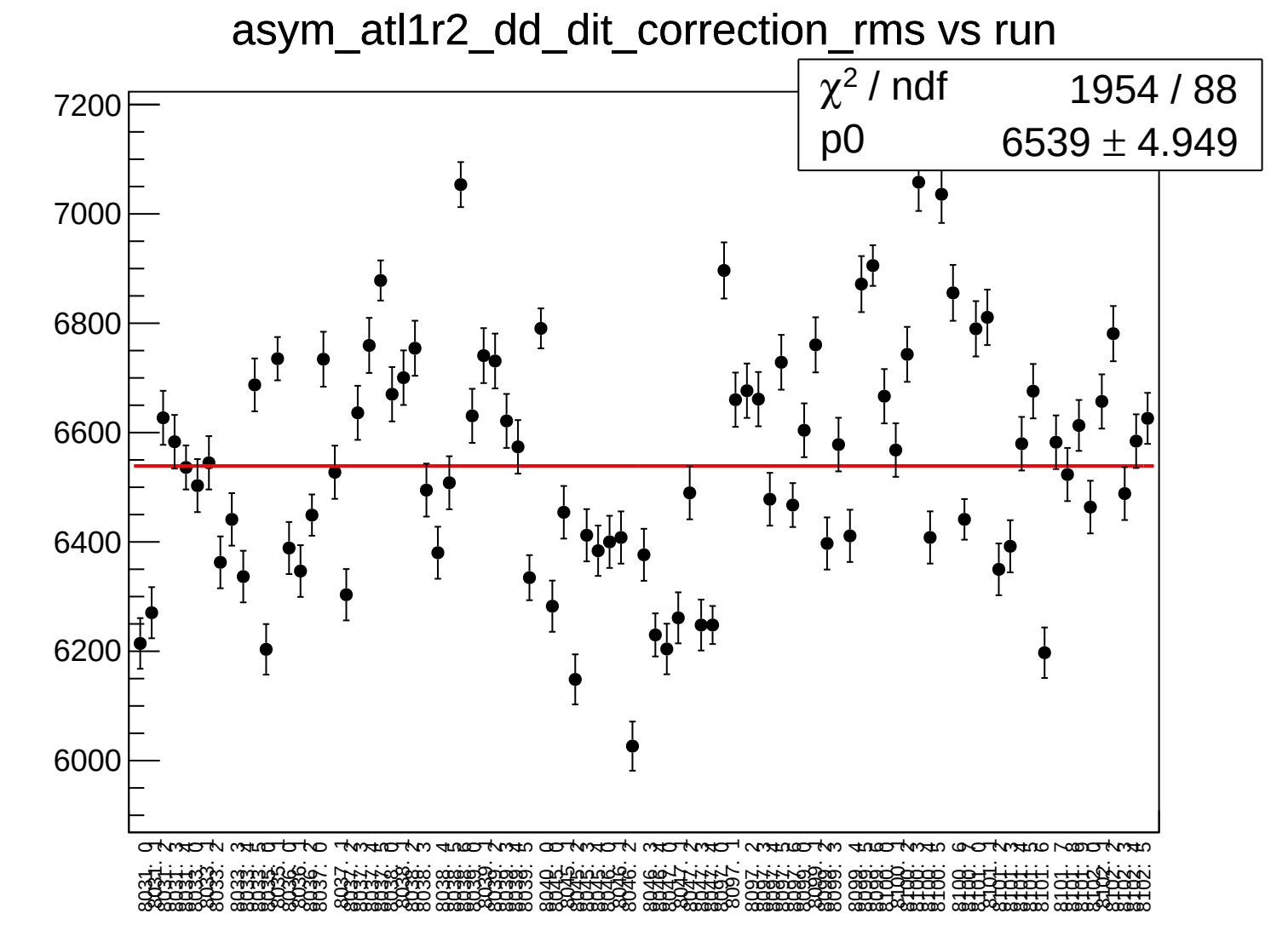

dit_asym_atl1r2_dd_mean vs run
χ² / ndf 104.5 / 88
p0 2087 ± 1930
pull
Entries 89
Mean −435.6
Std Dev 0

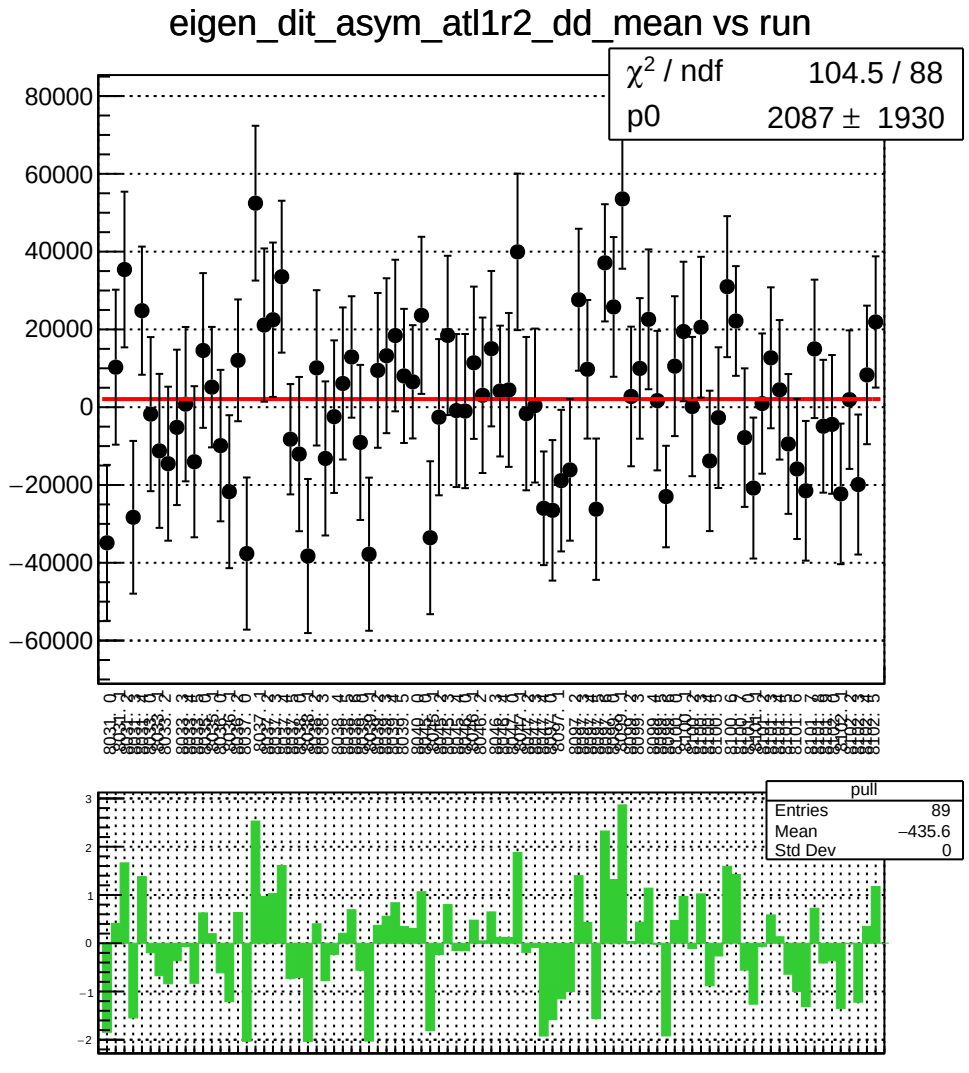

pull1D
Entries 89
Mean −0.001761
Std Dev 1.084

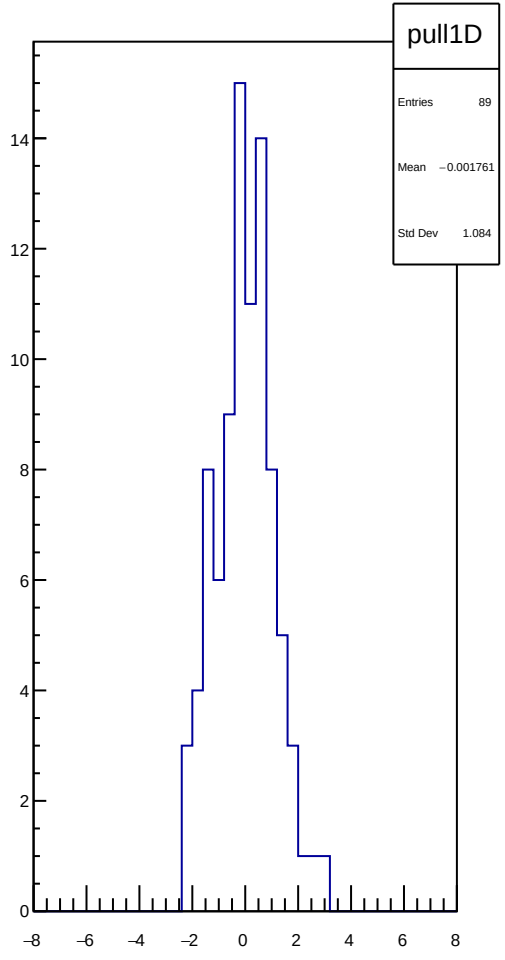

dit_asym_atl1r2_dd_rms vs run
χ² / ndf 4160 / 88
p0 1802 ± 1.365
1950
1900
1850
1800
1750
1700
1650

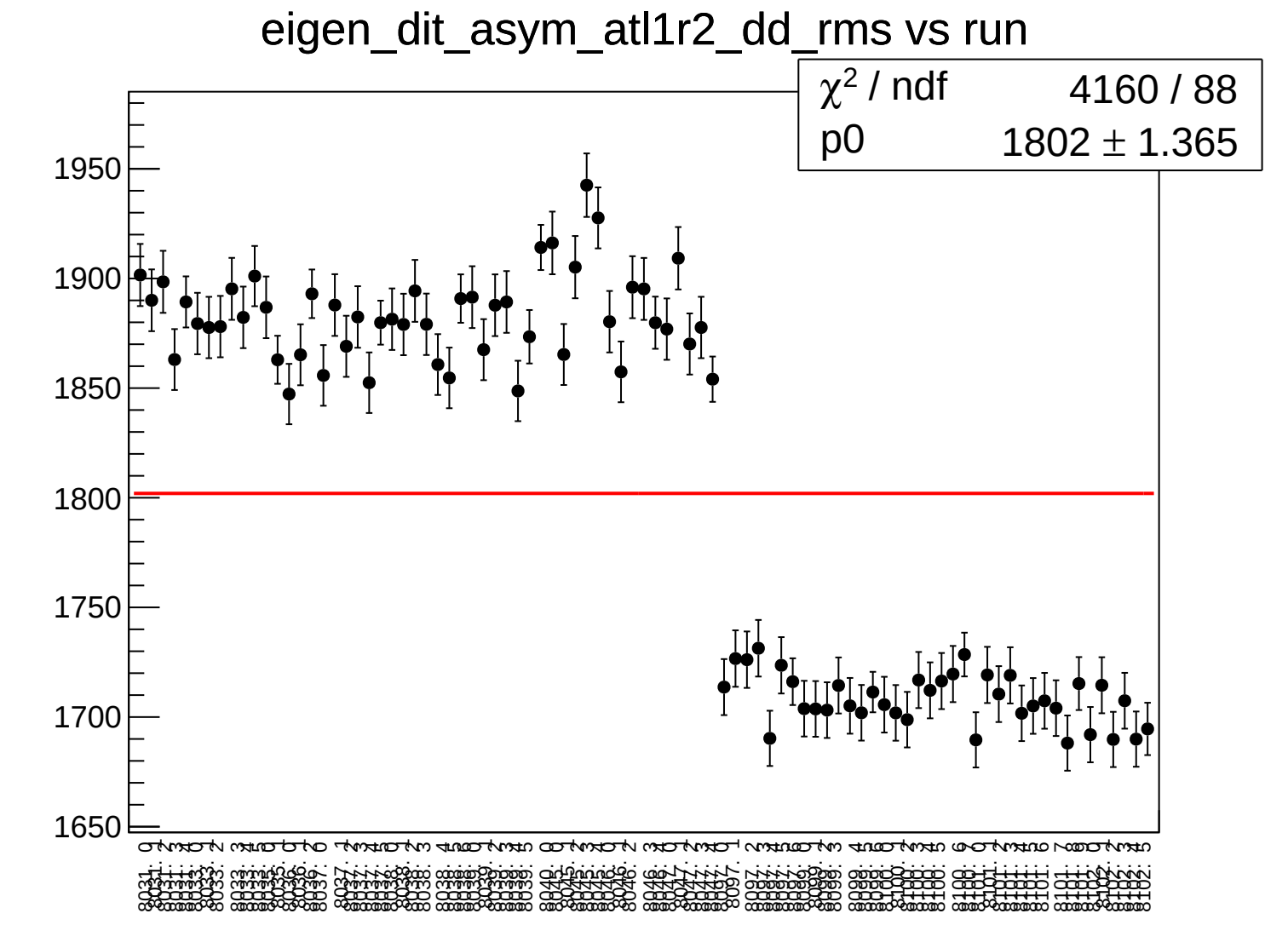

asym_atl1r2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 95.93 / 88
p0 −3522 ± 7000
200
100
0
−100
−200
−300
pull
Entries 89
Mean −587.1
Std Dev 0
2
1
0
−1
−2
−3

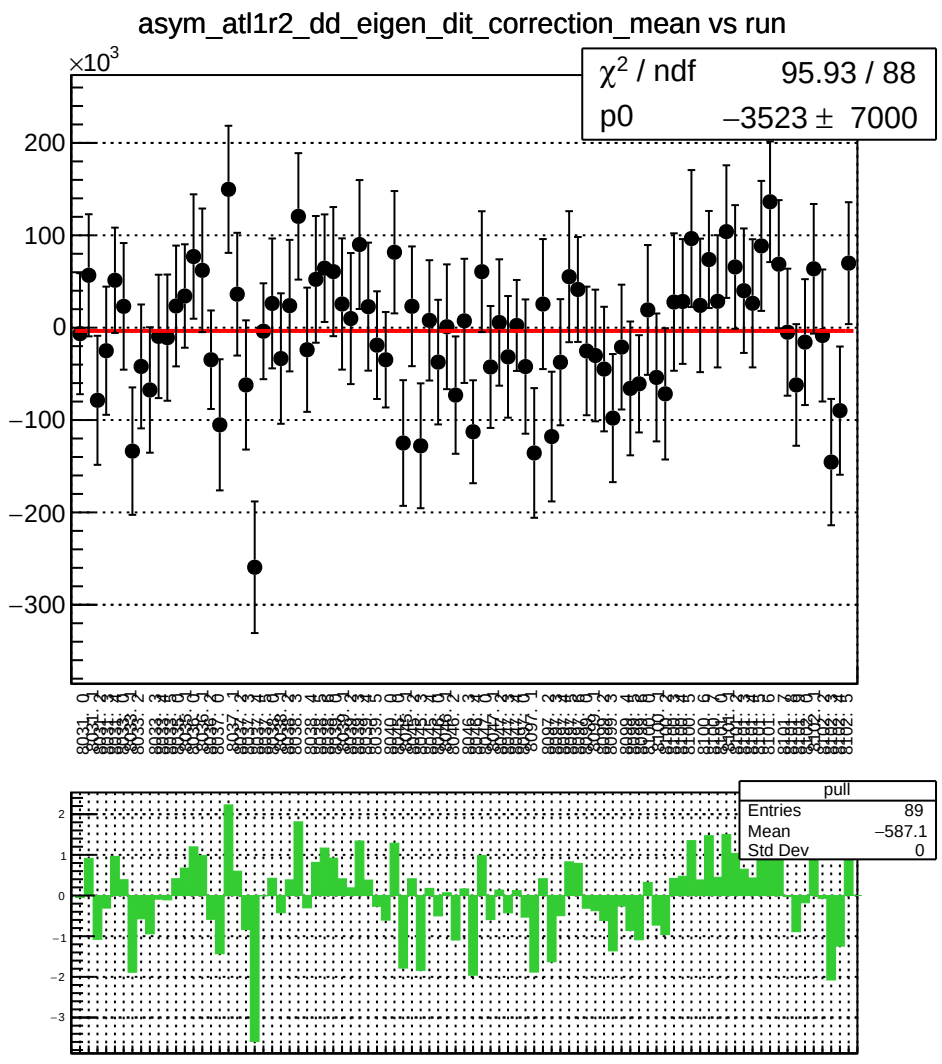

pull1D
Entries 89
Mean −0.002682
Std Dev 1.038
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

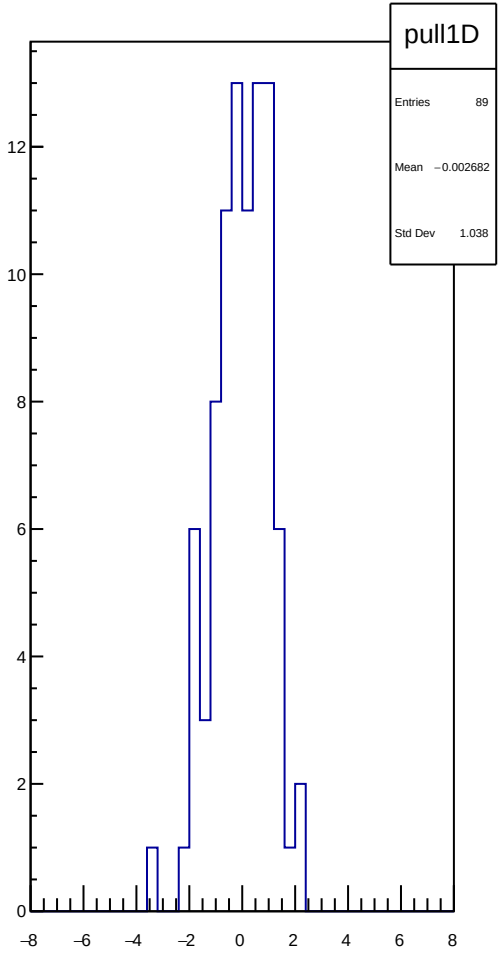

asym_atl1r2_dd_dit_correction_rms vs run
χ² / ndf 1954 / 88
p0 6539 ± 4.949
7200
7000
6800
6600
6400
6200
6000

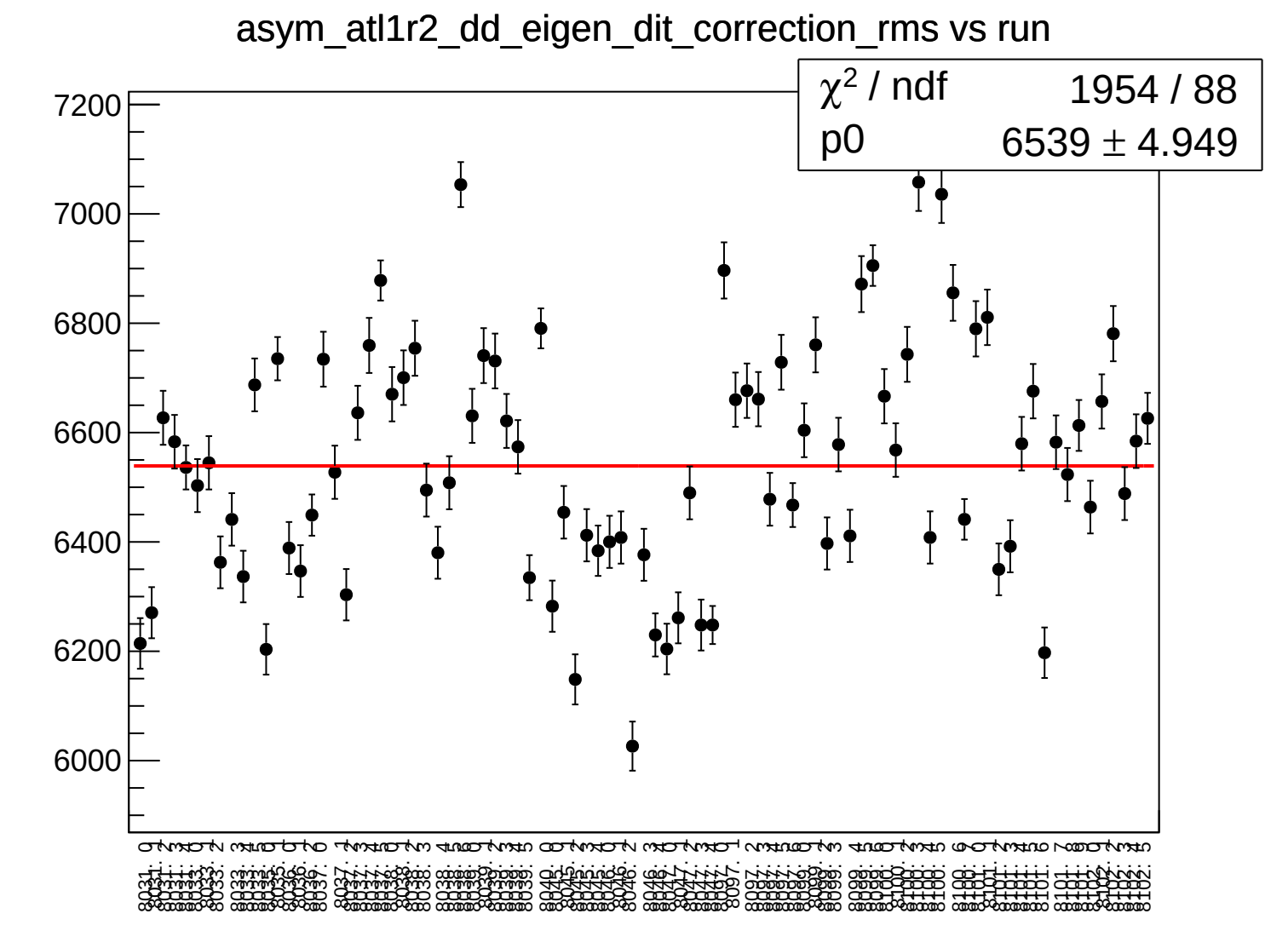

eigen_dit_asym_atl1r2_dd_mean vs run
χ² / ndf 104.5 / 88
p0 2087 ± 1930
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −435.6
Std Dev 0
3
2
1
0
−1
−2

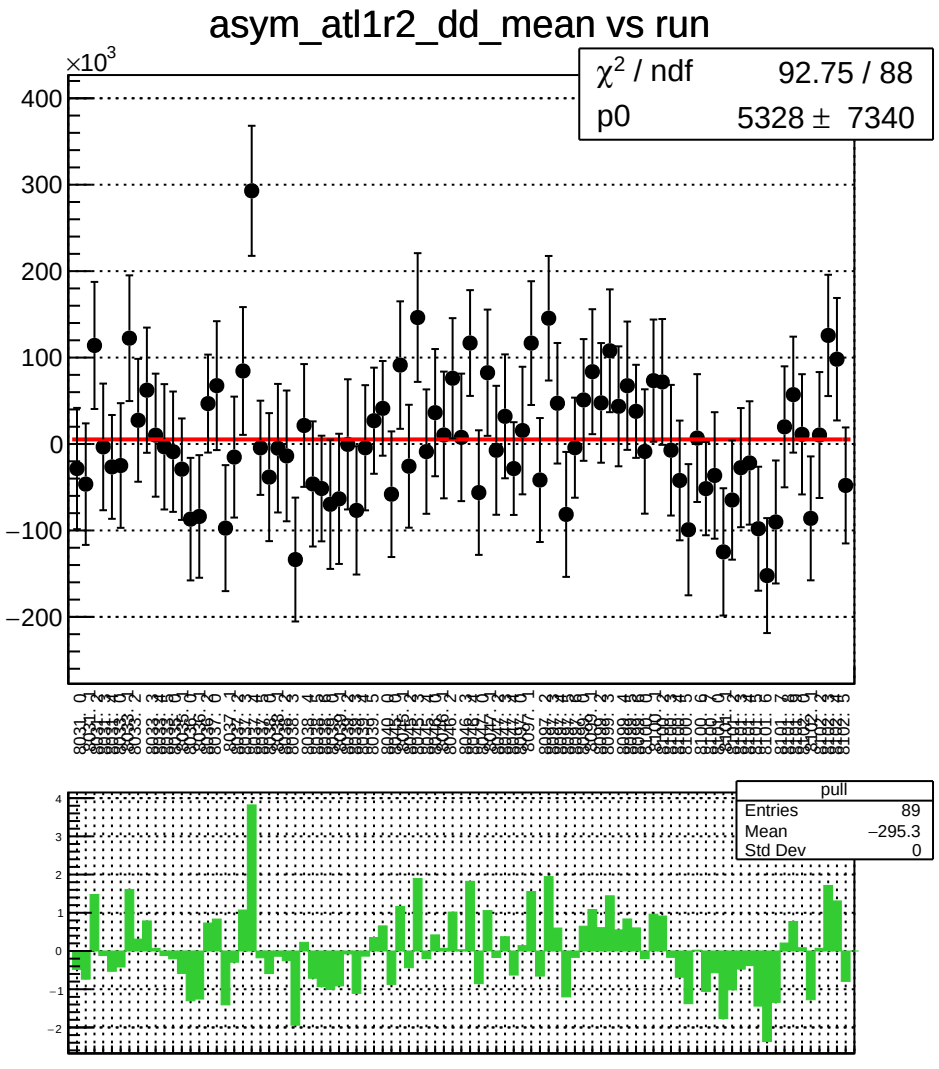

pull1D
Entries 89
Mean −0.001761
Std Dev 1.084
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

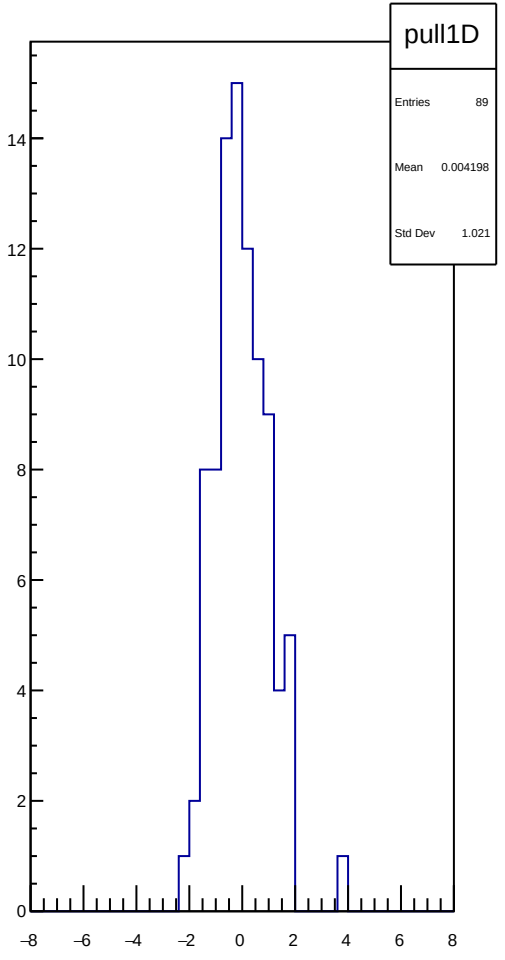

eigen_dit_asym_atl1r2_dd_rms vs run
χ² / ndf 4160 / 88
p0 1802 ± 1.365
1950
1900
1850
1800
1750
1700
1650

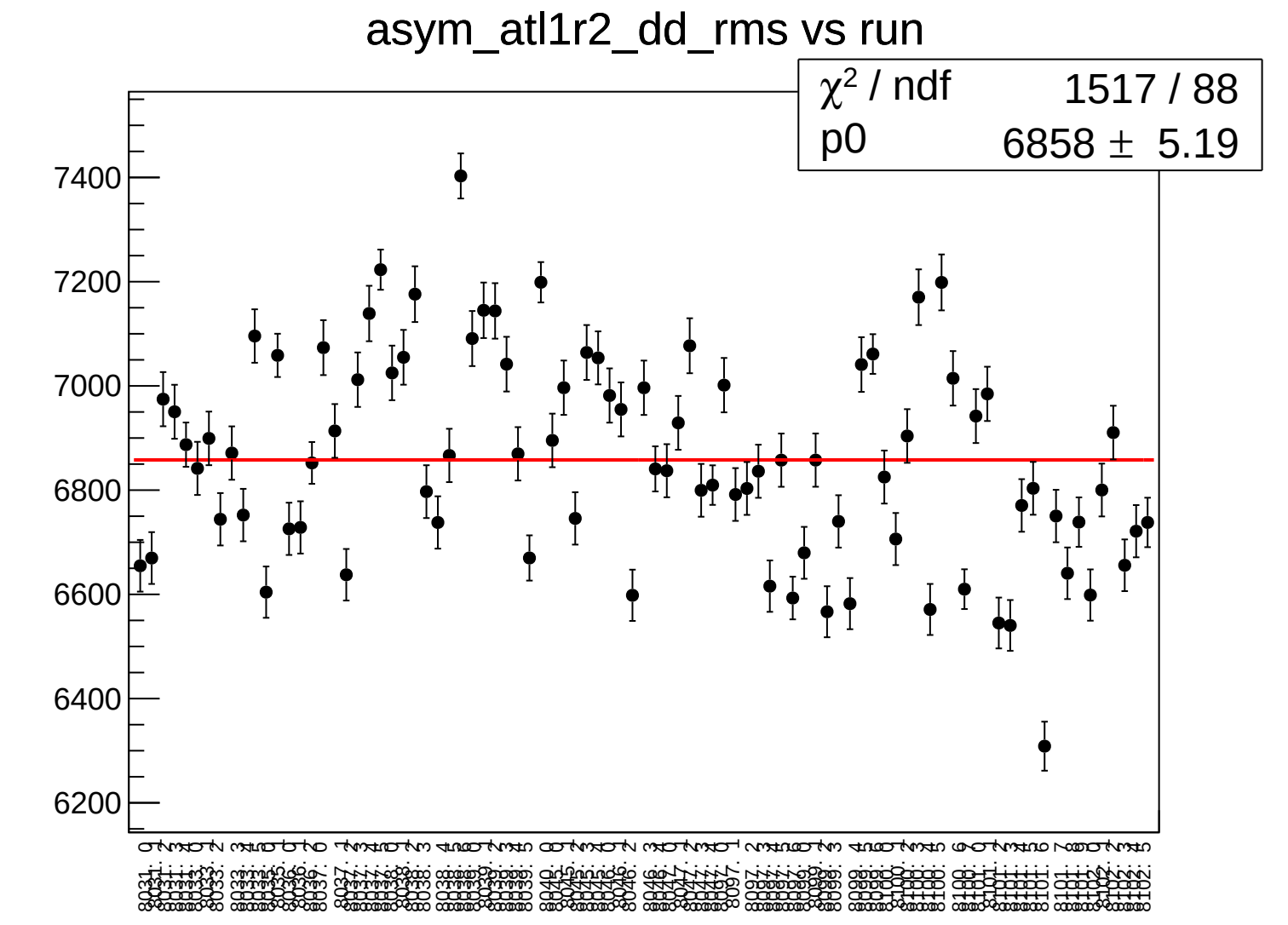

asym_atl1r2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 95.93 / 88
p0 −3523 ± 7000
200
100
0
−100
−200
−300
pull
Entries 89
Mean −587.1
Std Dev 0
2
1
0
−1
−2
−3

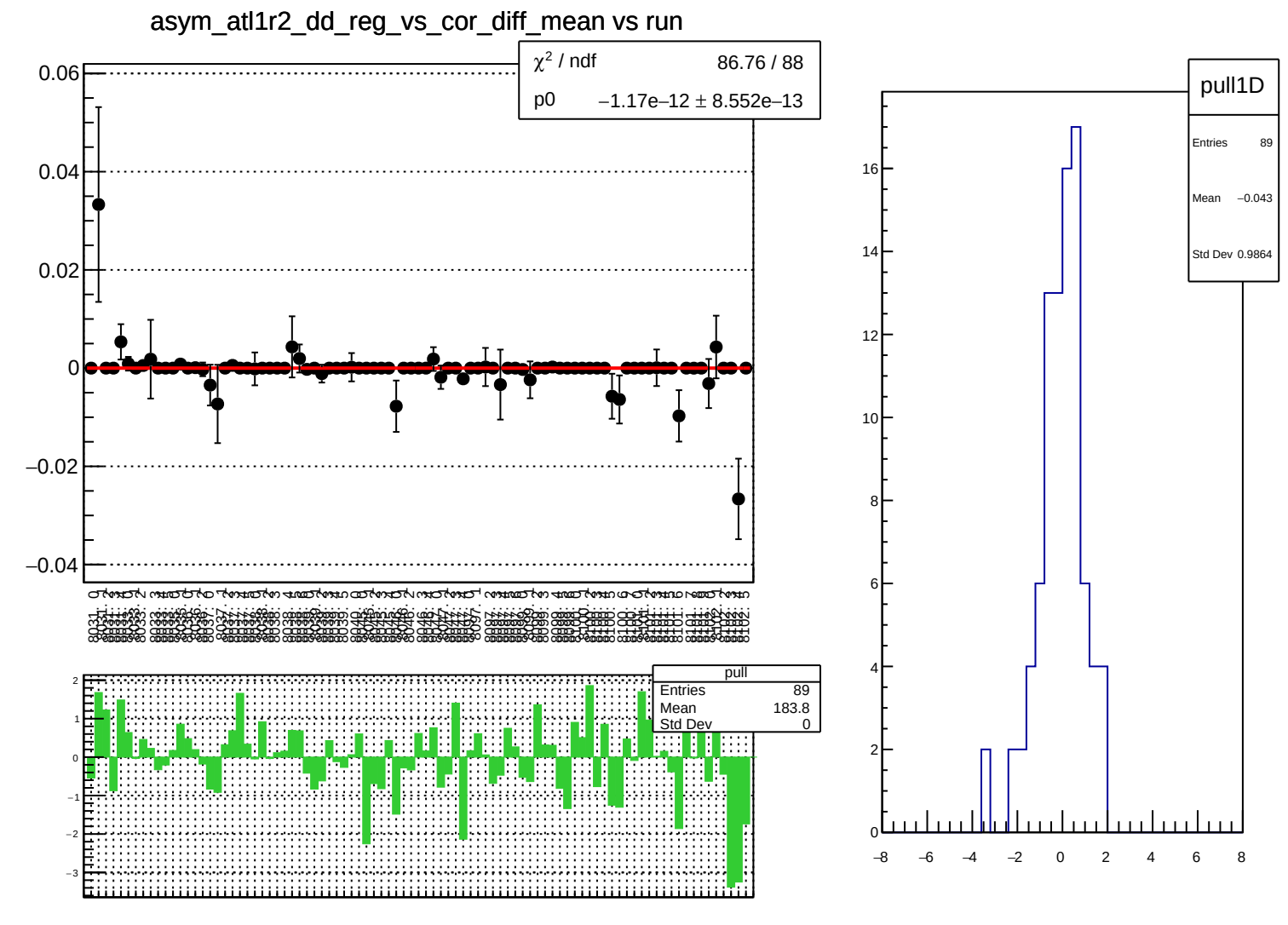

pull1D
Entries 89
Mean −0.002682
Std Dev 1.038
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

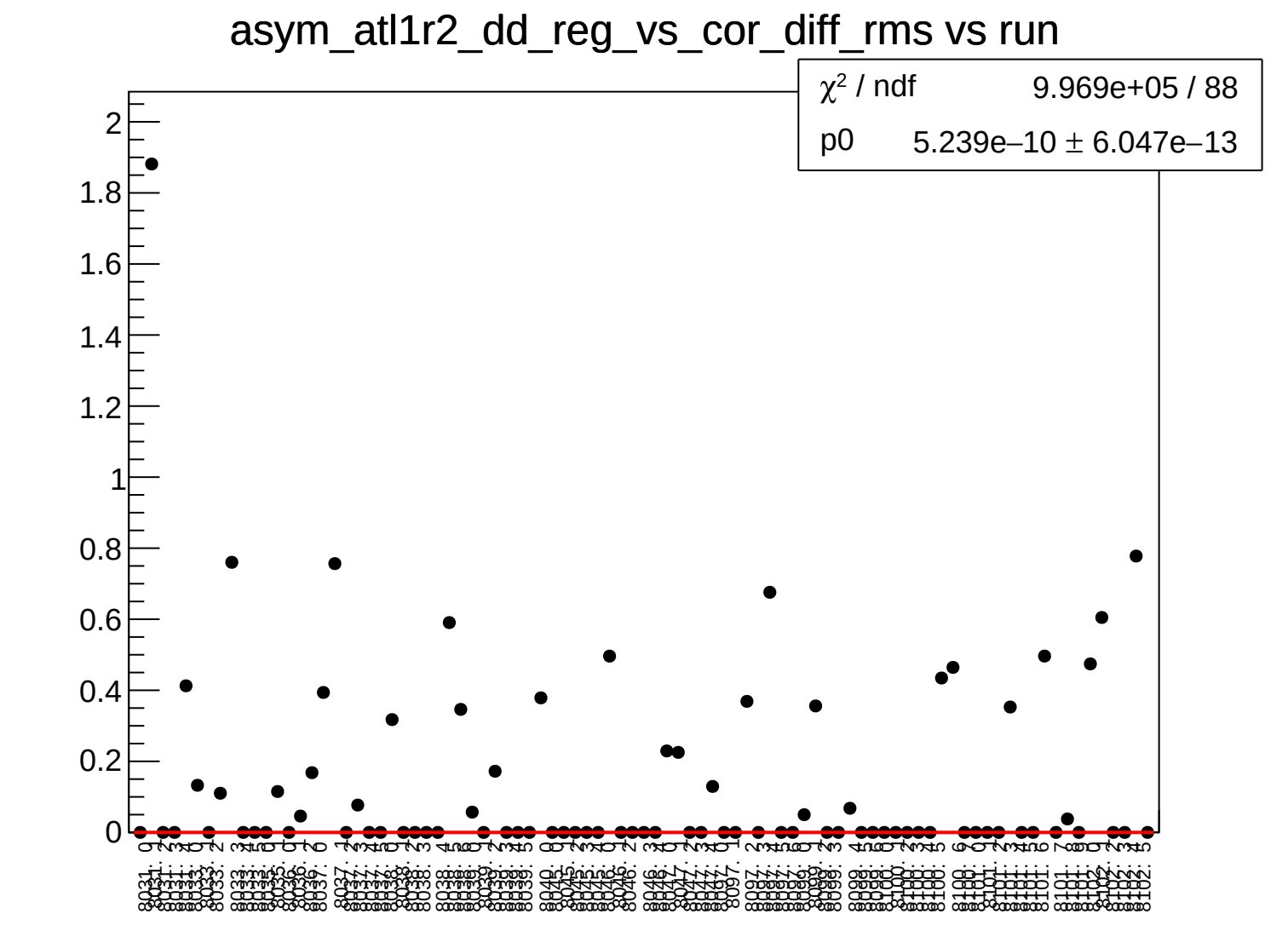

asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1954 / 88
p0 6539 ± 4.949
7200
7000
6800
6600
6400
6200
6000

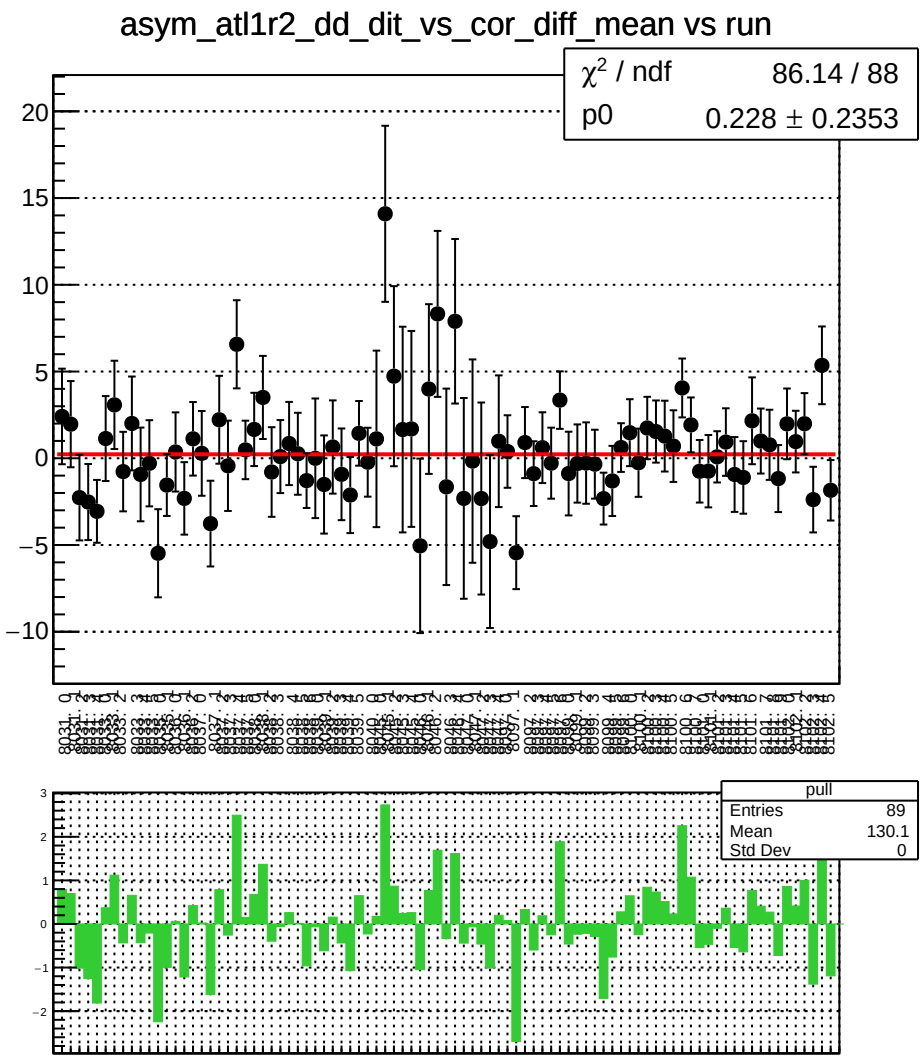

asym_atl1r2_dd_mean vs run
×10^3
χ^2 / ndf 92.75 / 88
p0 5328 ± 7340
400
300
200
100
0
−100
−200
pull
Entries 89
Mean −295.3
Std Dev 0
4
3
2
1
0
−1
−2

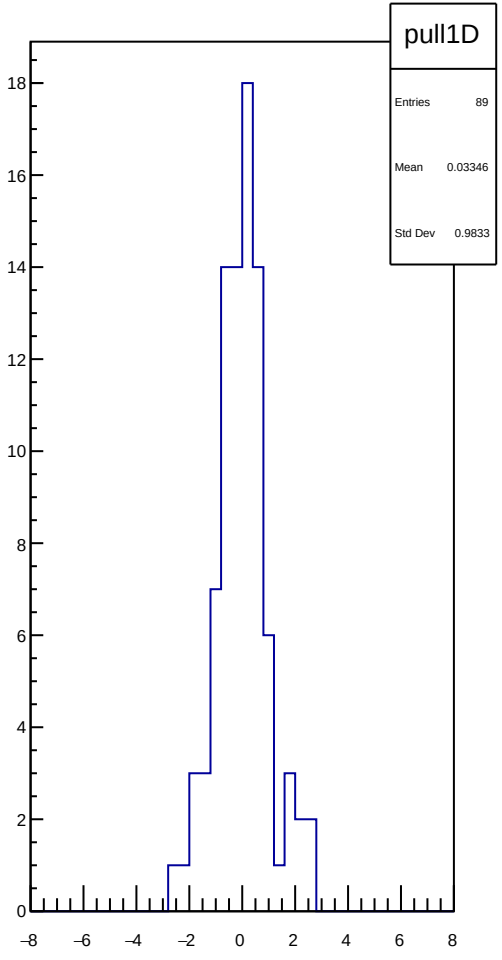

pull1D
Entries 89
Mean 0.004198
Std Dev 1.021
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

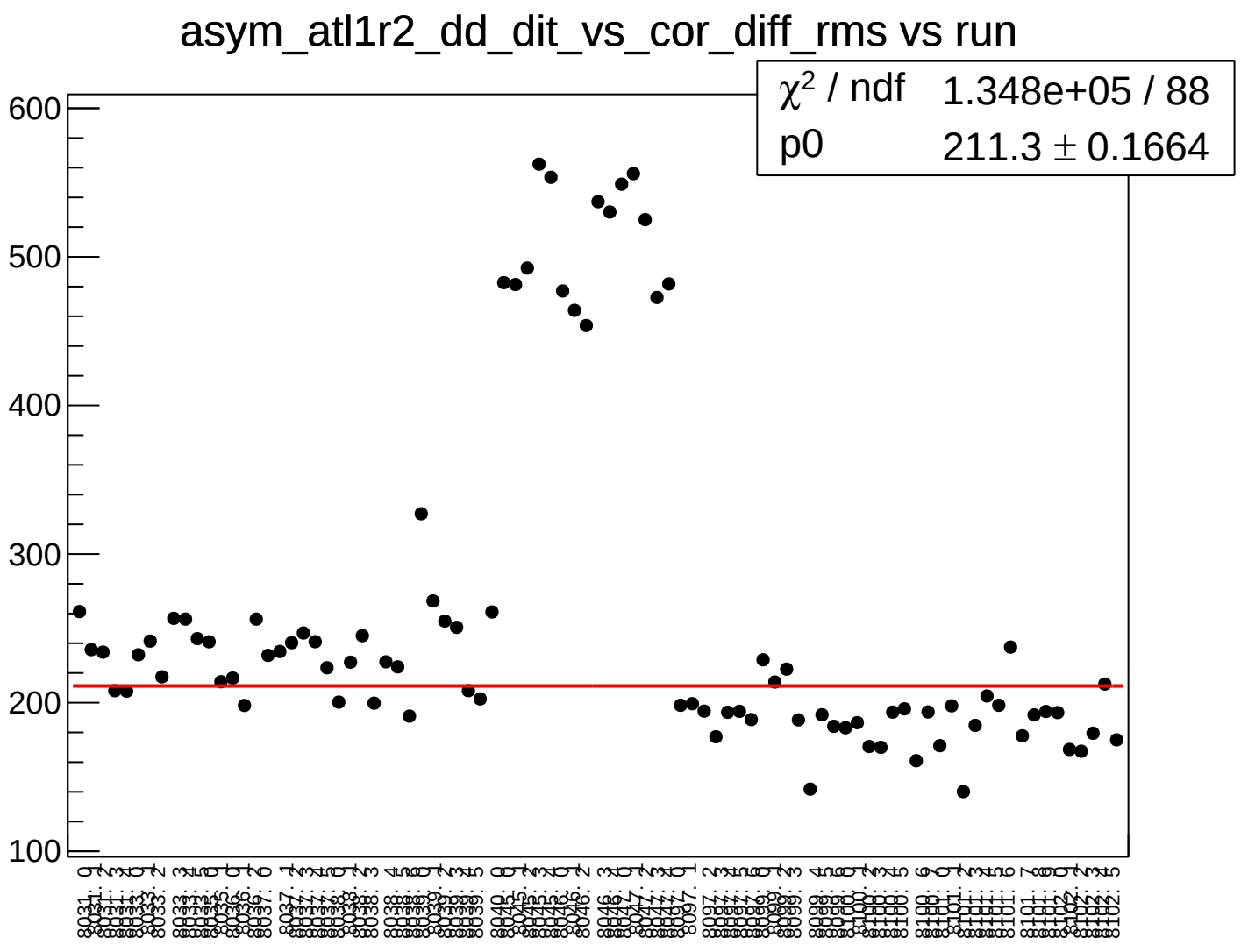

asym_atl1r2_dd_rms vs run
χ² / ndf 1517 / 88
p0 6858 ± 5.19
7400
7200
7000
6800
6600
6400
6200

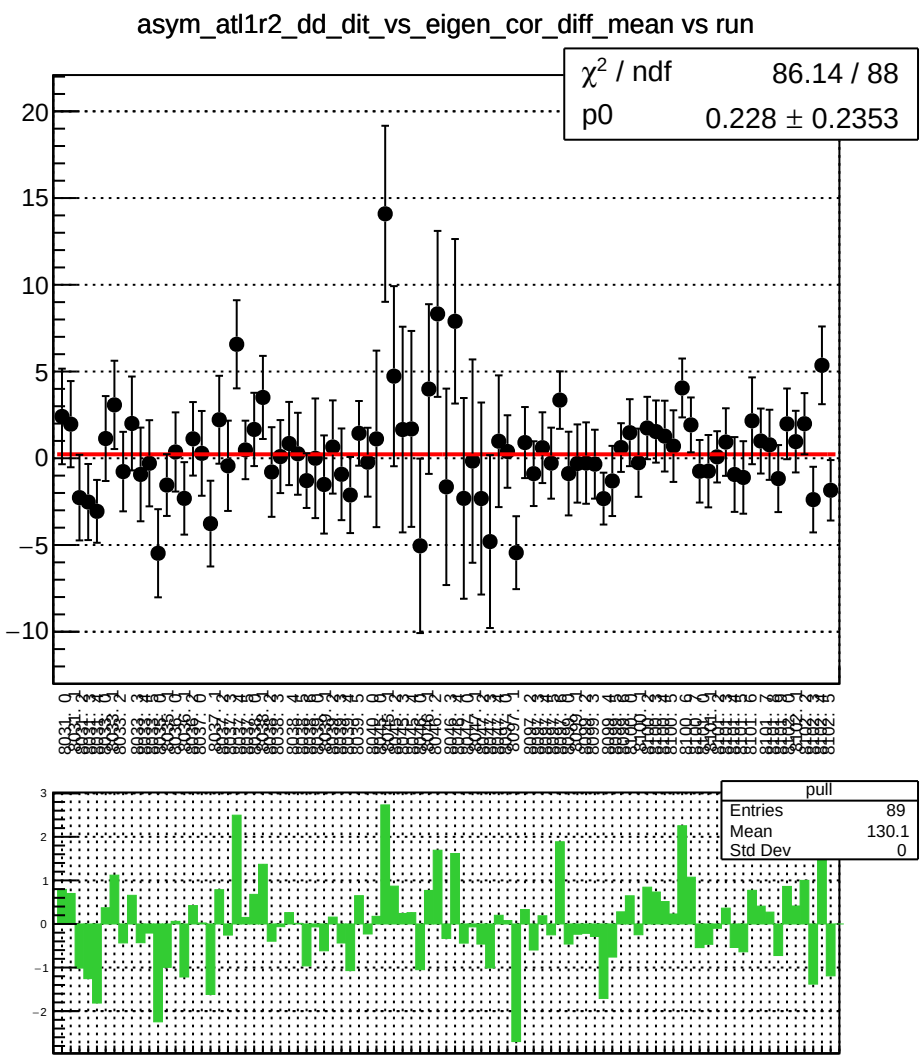

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 86.76 / 88
p0 −1.17e−12 ± 8.552e−13
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 89
Mean 183.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.043
Std Dev 0.9864
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

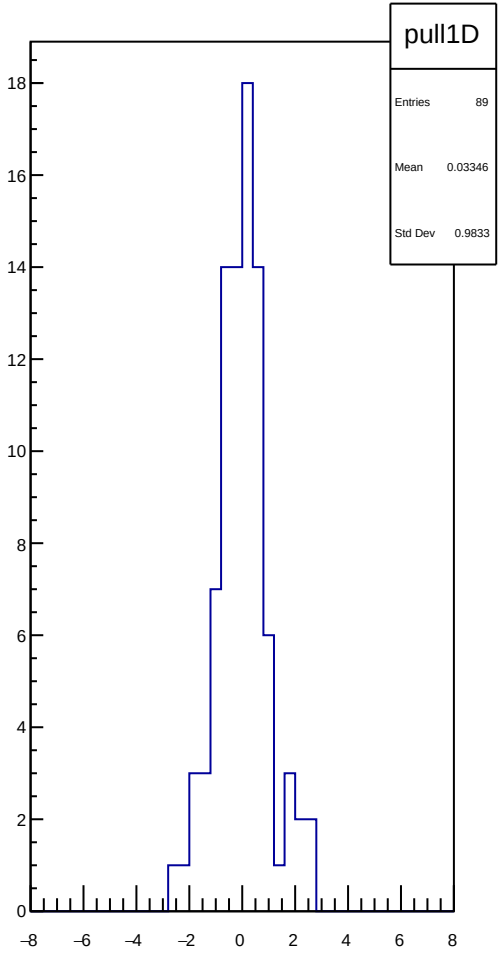

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.969e+05 / 88
p0 5.239e−10 ± 6.047e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

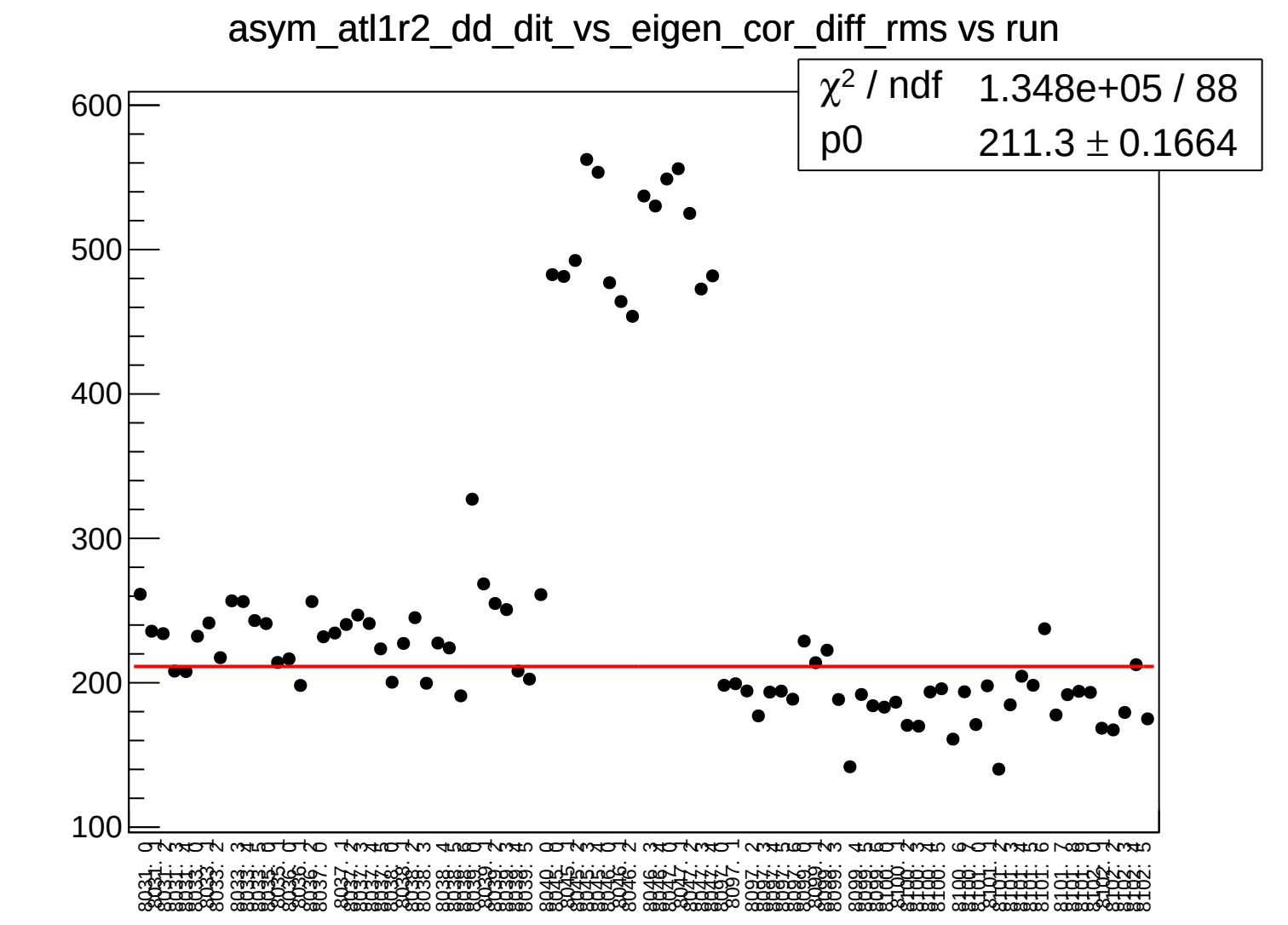

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.14 / 88
p0 0.228 ± 0.2353
pull
Entries 89
Mean 130.1
Std Dev 0

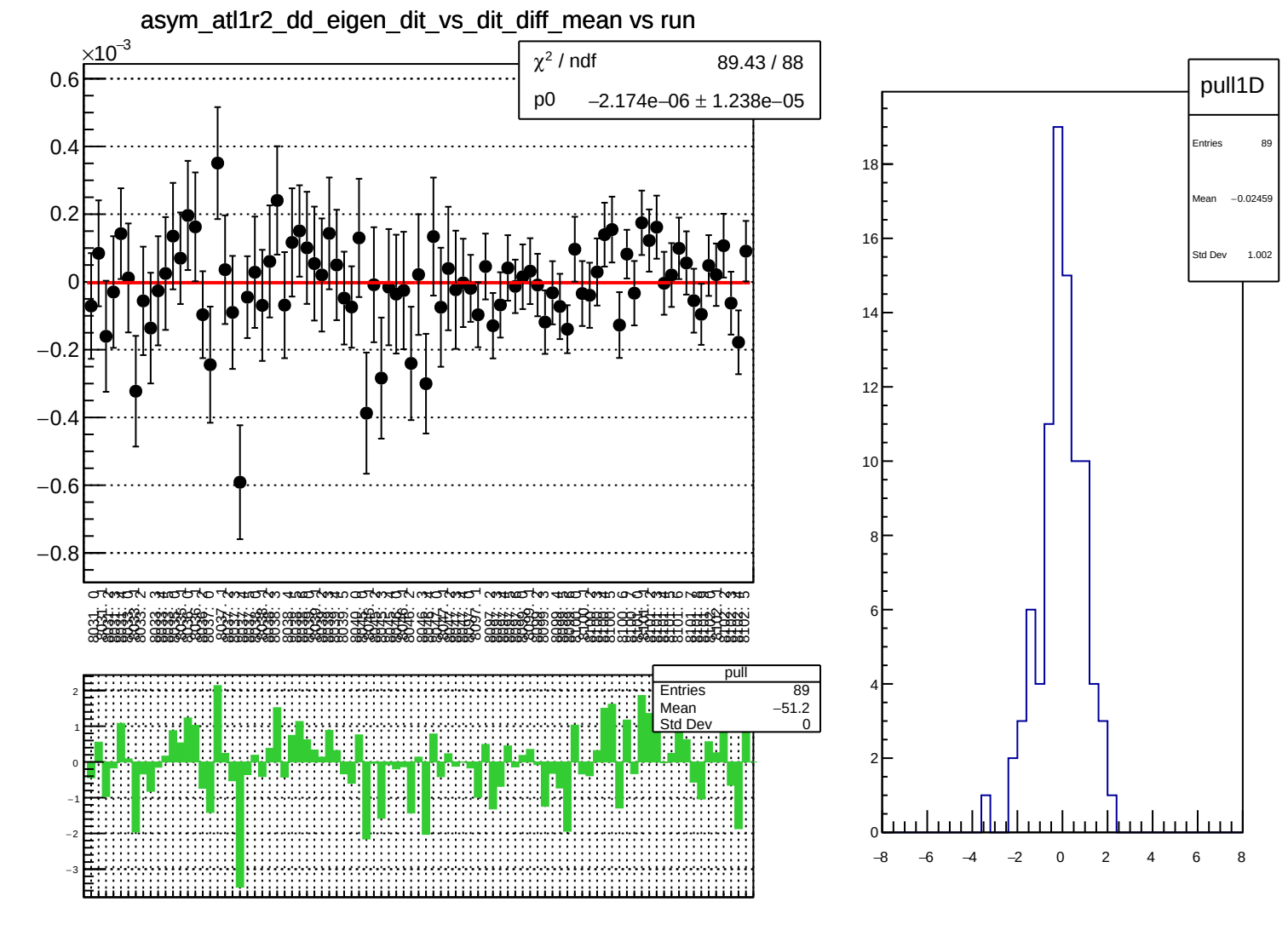

pull1D
Entries 89
Mean 0.03346
Std Dev 0.9833

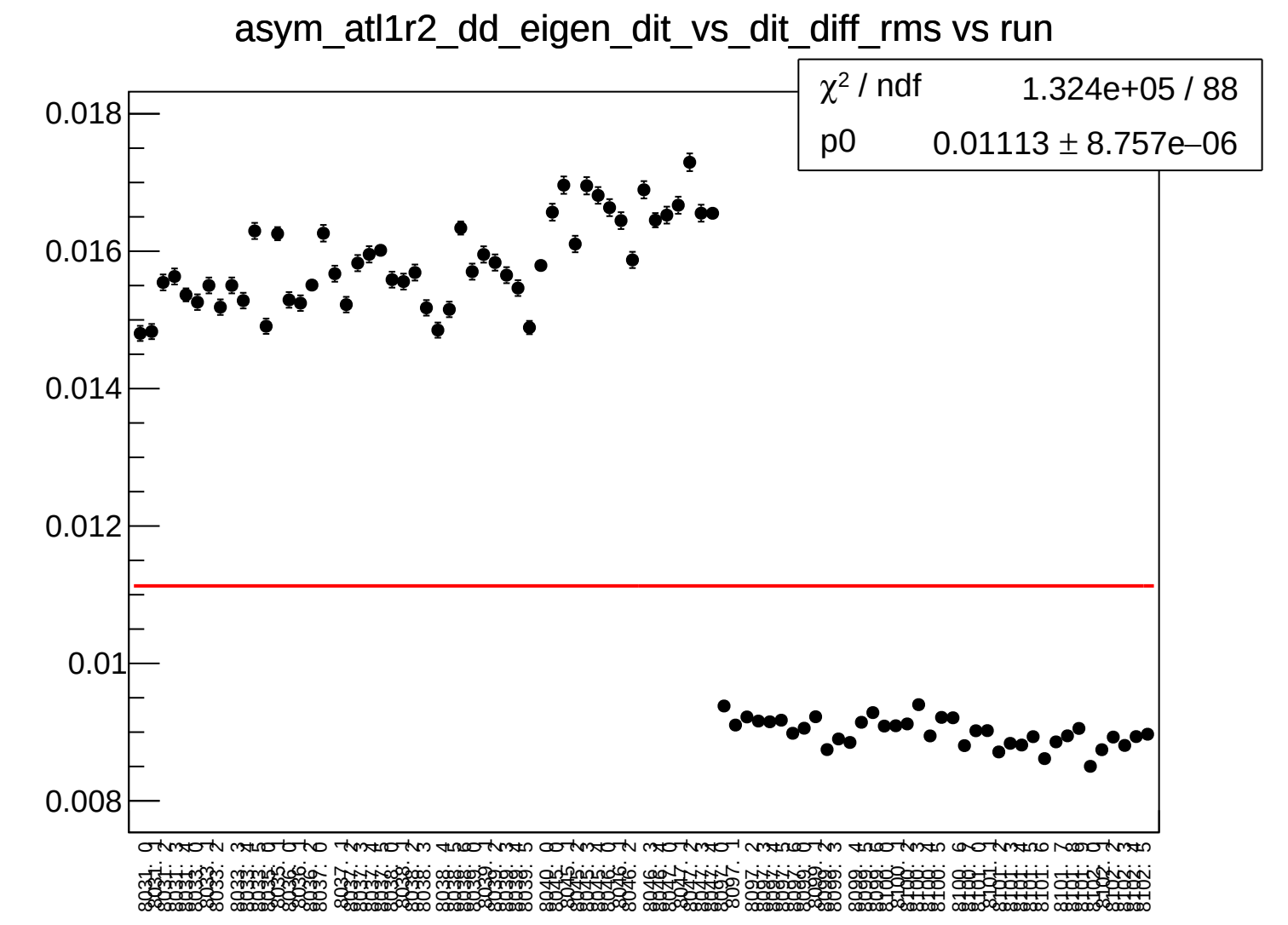

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.348e+05 / 88
p0 211.3 ± 0.1664
600
500
400
300
200
100

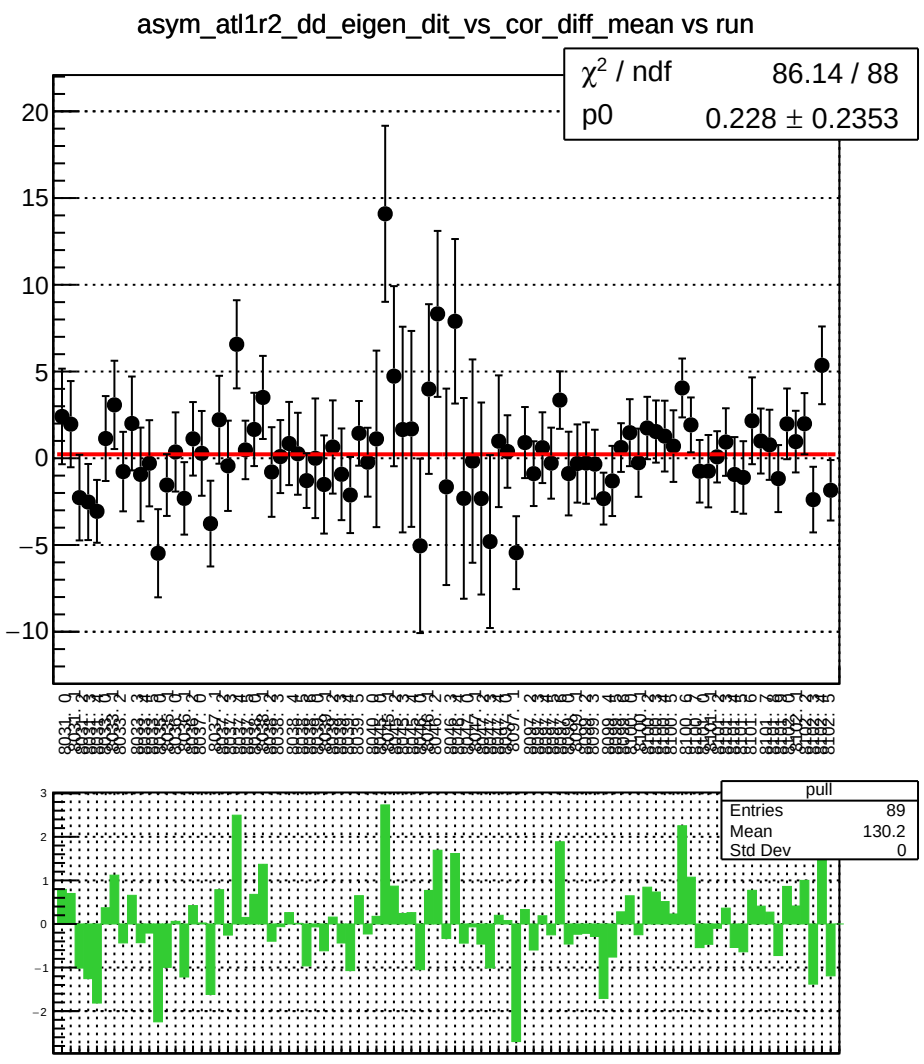

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.14 / 88
p0 0.228 ± 0.2353
pull
Entries 89
Mean 130.1
Std Dev 0

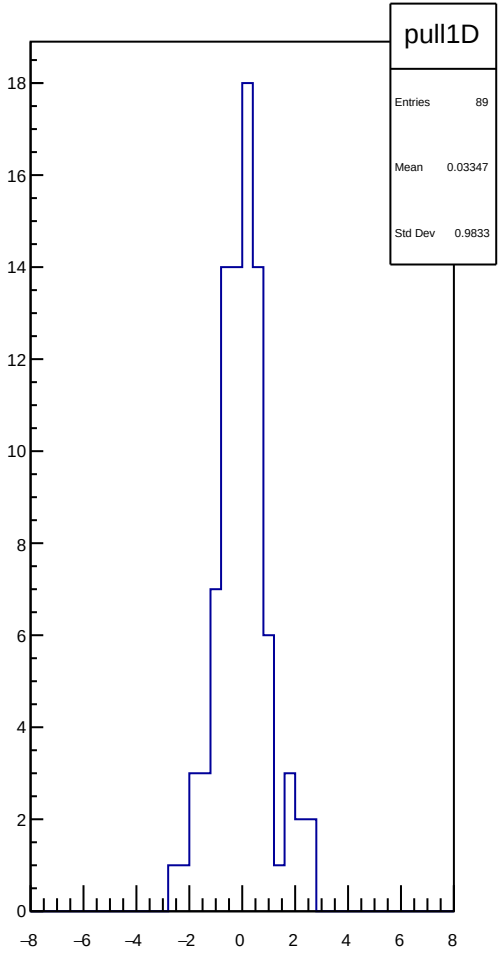

pull1D
Entries 89
Mean 0.03346
Std Dev 0.9833

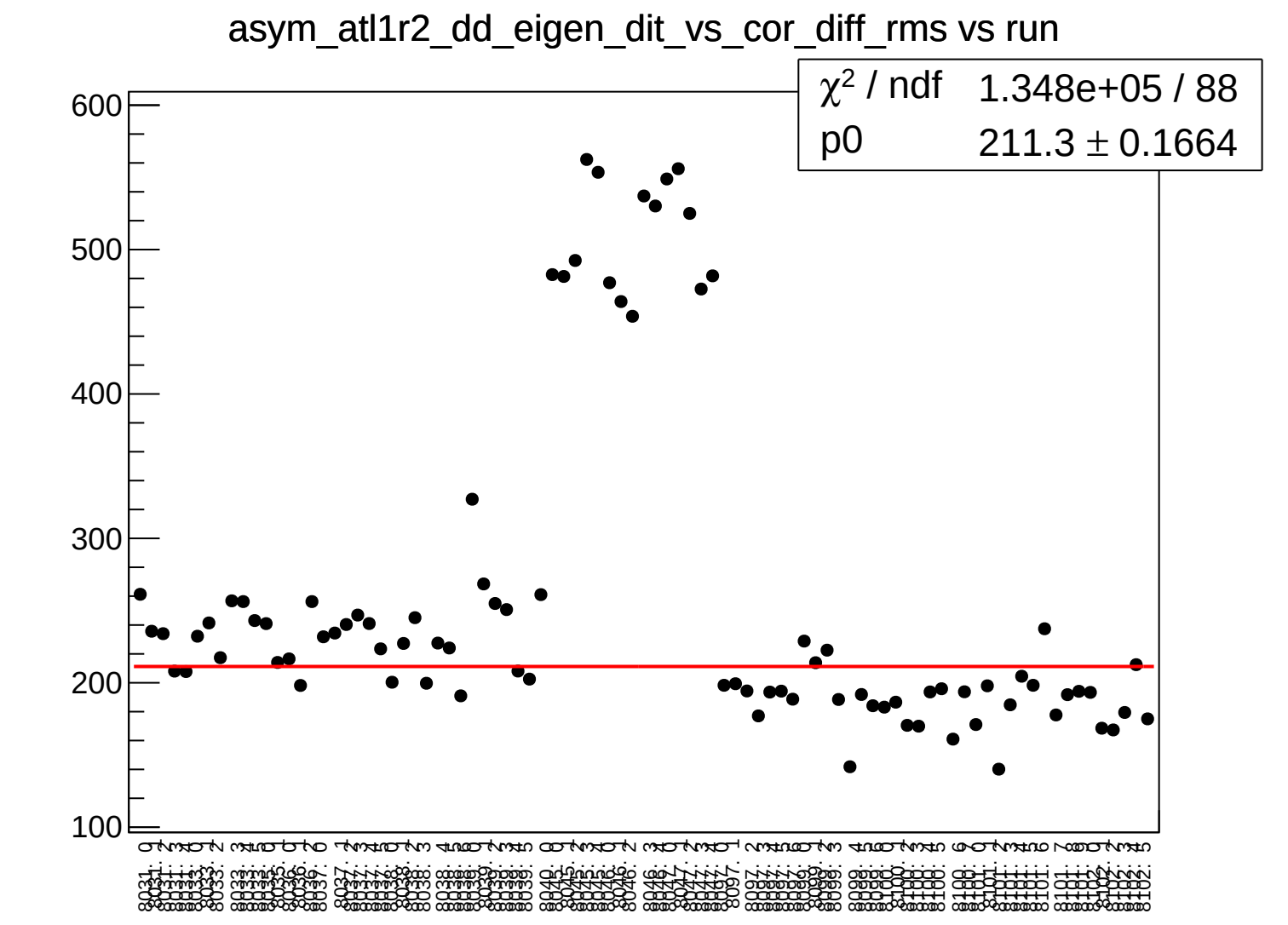

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.348e+05 / 88
p0 211.3 ± 0.1664
600
500
400
300
200
100

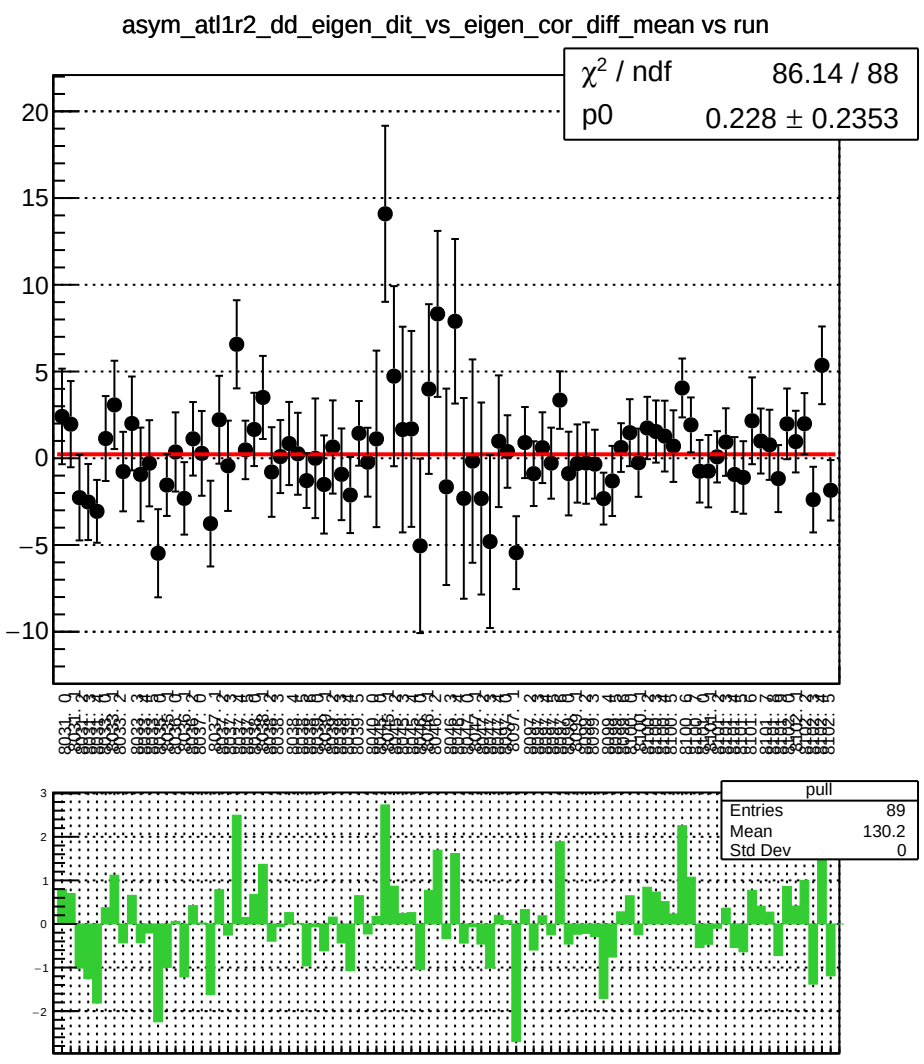

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 89.43 / 88
p0 −2.174e−06 ± 1.238e−05
pull
Entries 89
Mean −51.2
Std Dev 0
pull1D
Entries 89
Mean −0.02459
Std Dev 1.002

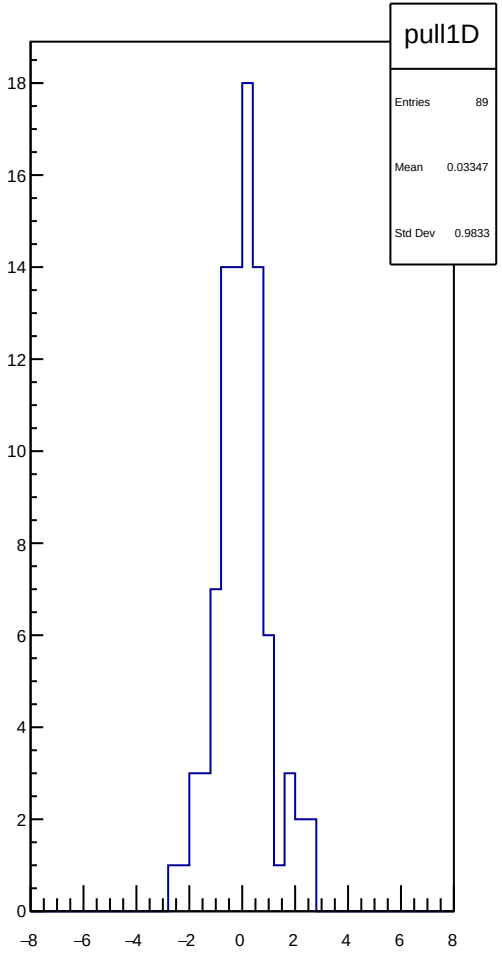

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.324e+05 / 88
p0 0.01113 ± 8.757e–06
0.018
0.016
0.014
0.012
0.01
0.008

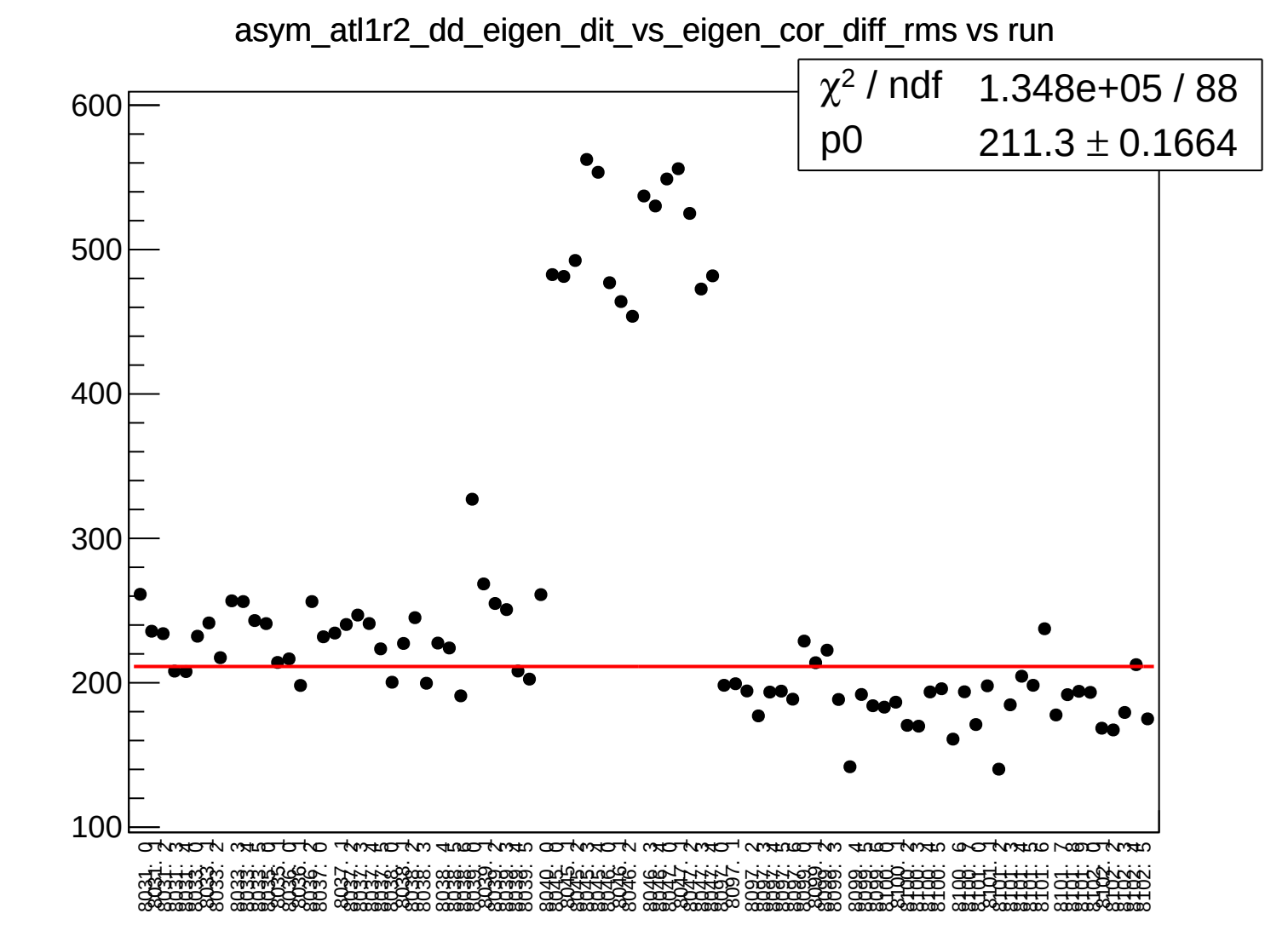

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.14 / 88
p0 0.228 ± 0.2353
pull
Entries 89
Mean 130.2
Std Dev 0

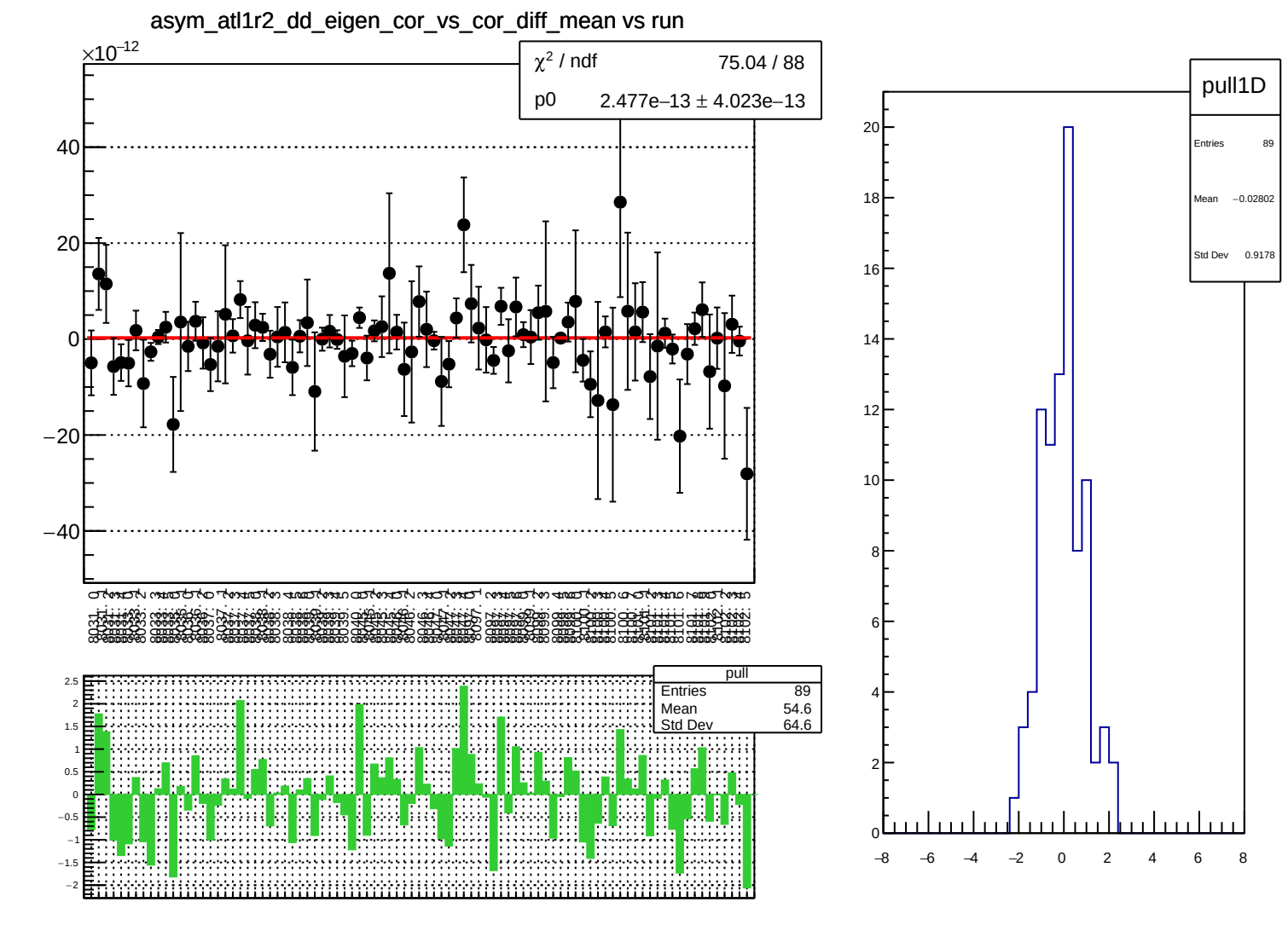

pull1D
Entries 89
Mean 0.03347
Std Dev 0.9833

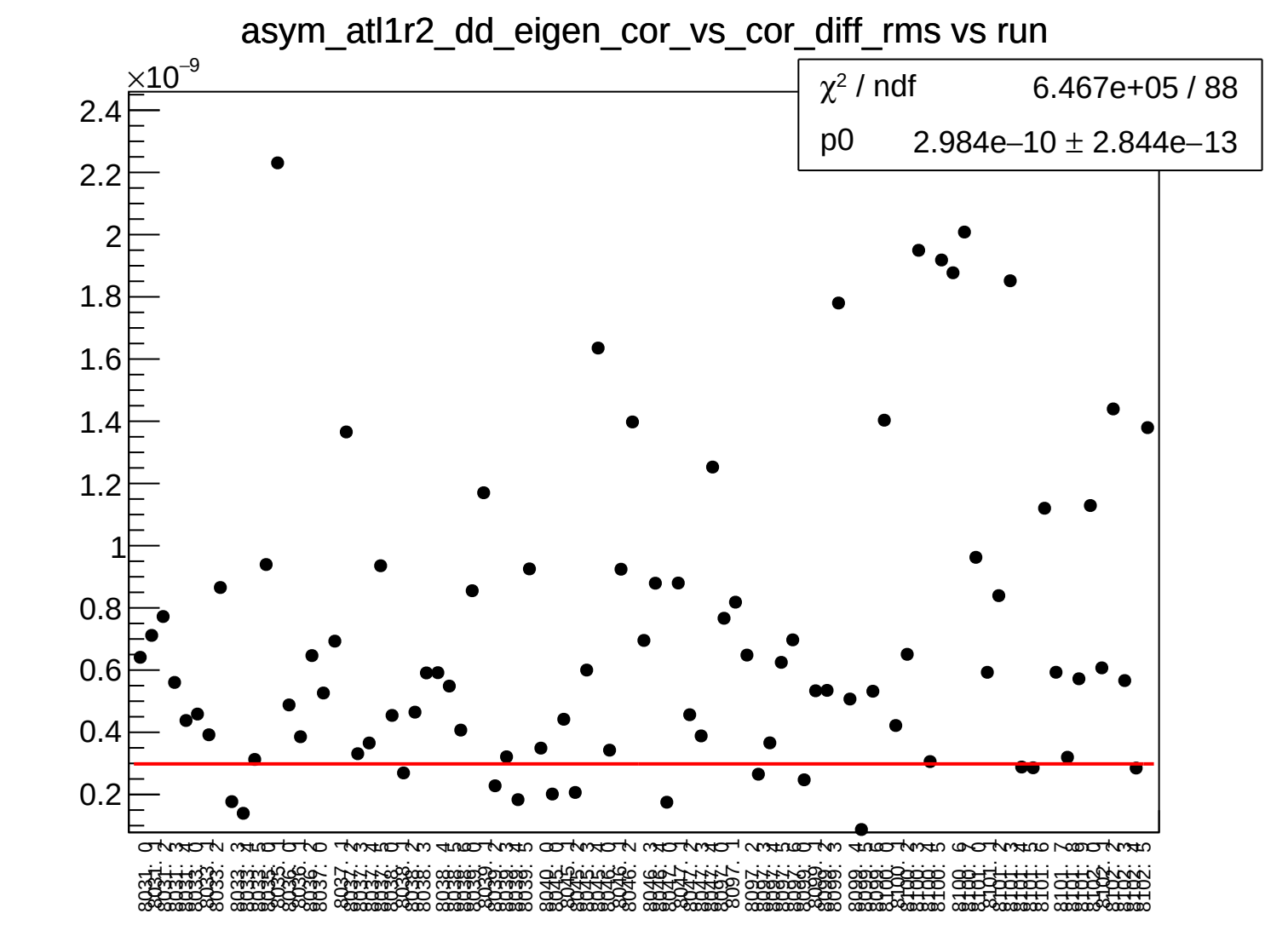

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.348e+05 / 88
p0 211.3 ± 0.1664
600
500
400
300
200
100

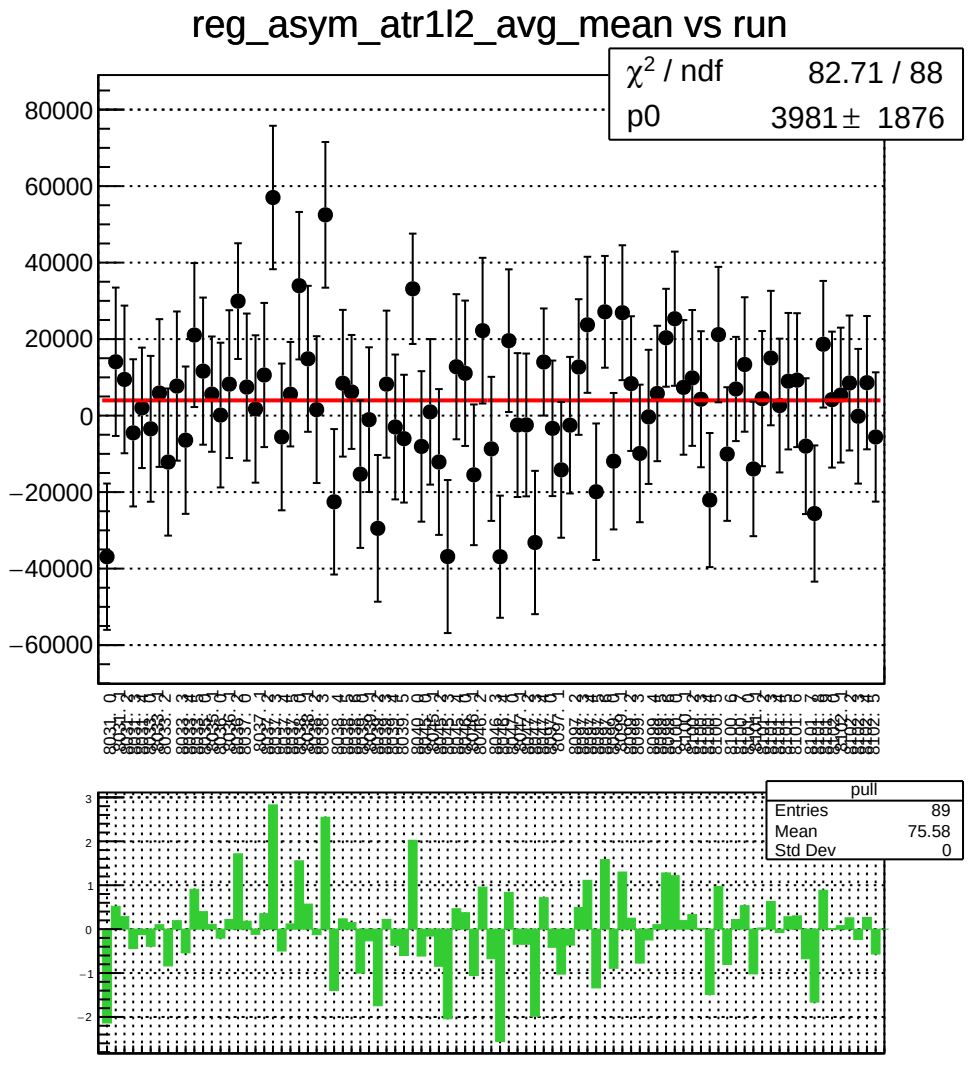

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.14 / 88
p0 0.228 ± 0.2353
pull
Entries 89
Mean 130.2
Std Dev 0

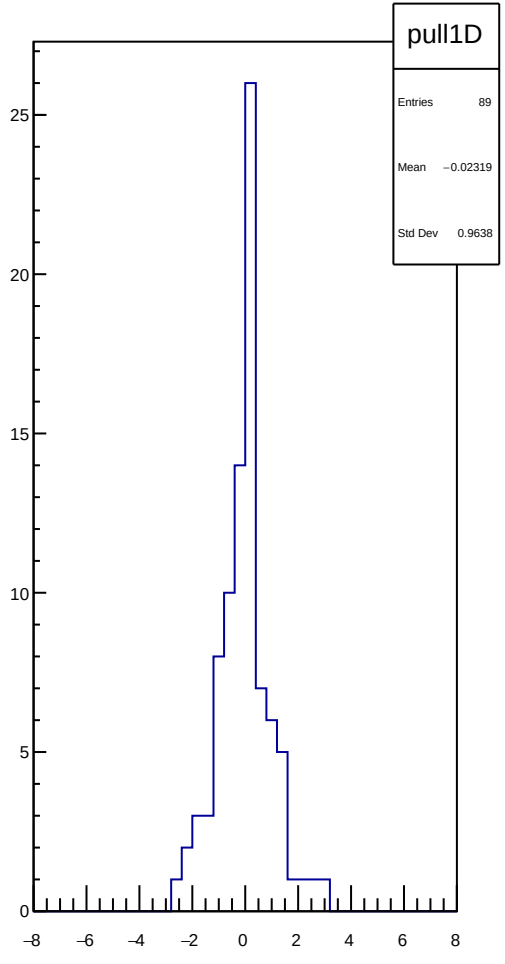

pull1D
Entries 89
Mean 0.03347
Std Dev 0.9833

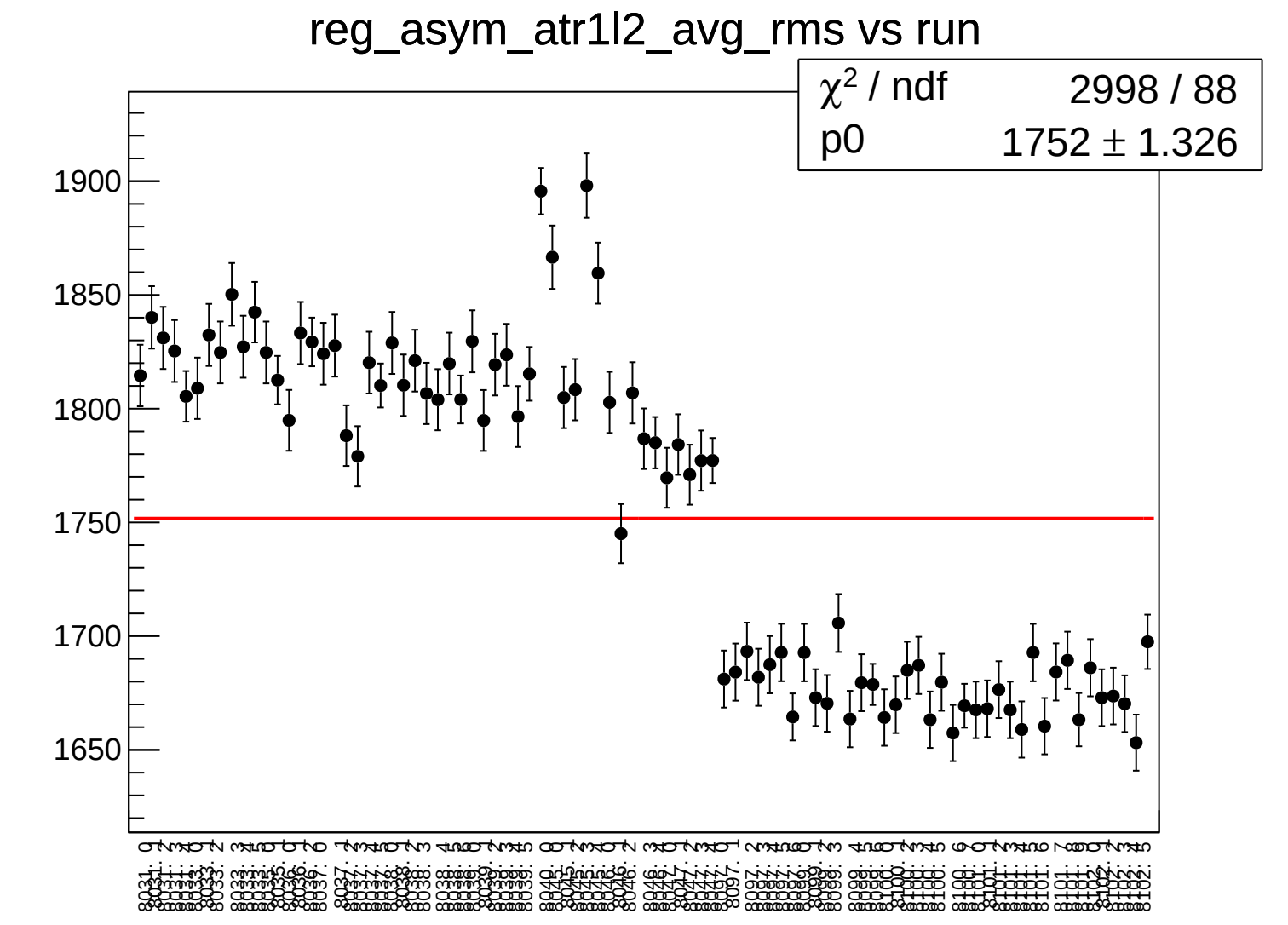

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.348e+05 / 88
p0 211.3 ± 0.1664
600
500
400
300
200
100

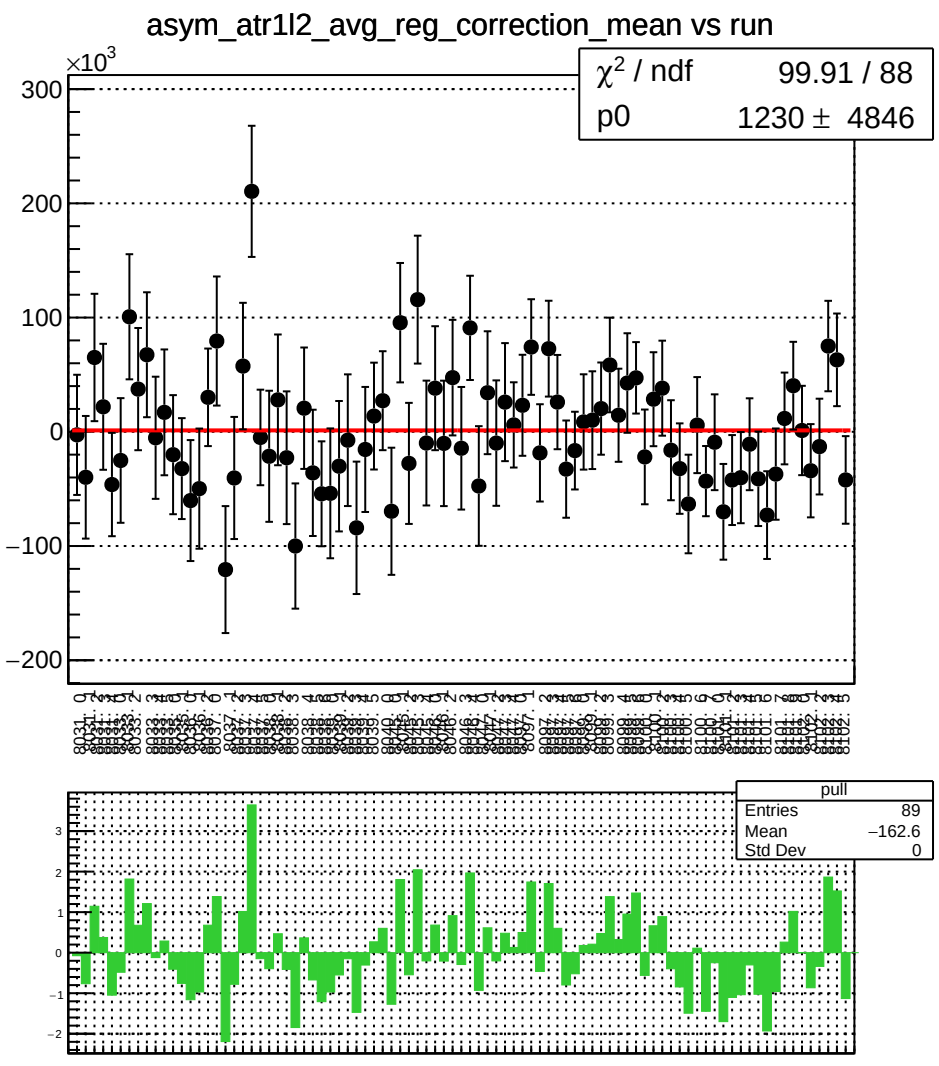

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.04 / 88
p0 2.477e−13 ± 4.023e−13
40
20
0
−20
−40
pull
Entries 89
Mean 54.6
Std Dev 64.6
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.02802
Std Dev 0.9178
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

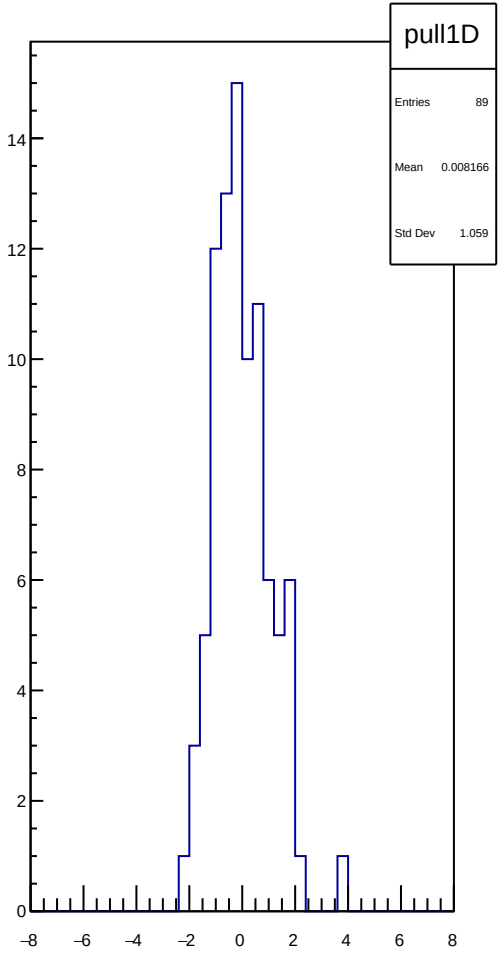

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.467e+05 / 88
p0 2.984e−10 ± 2.844e−13
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

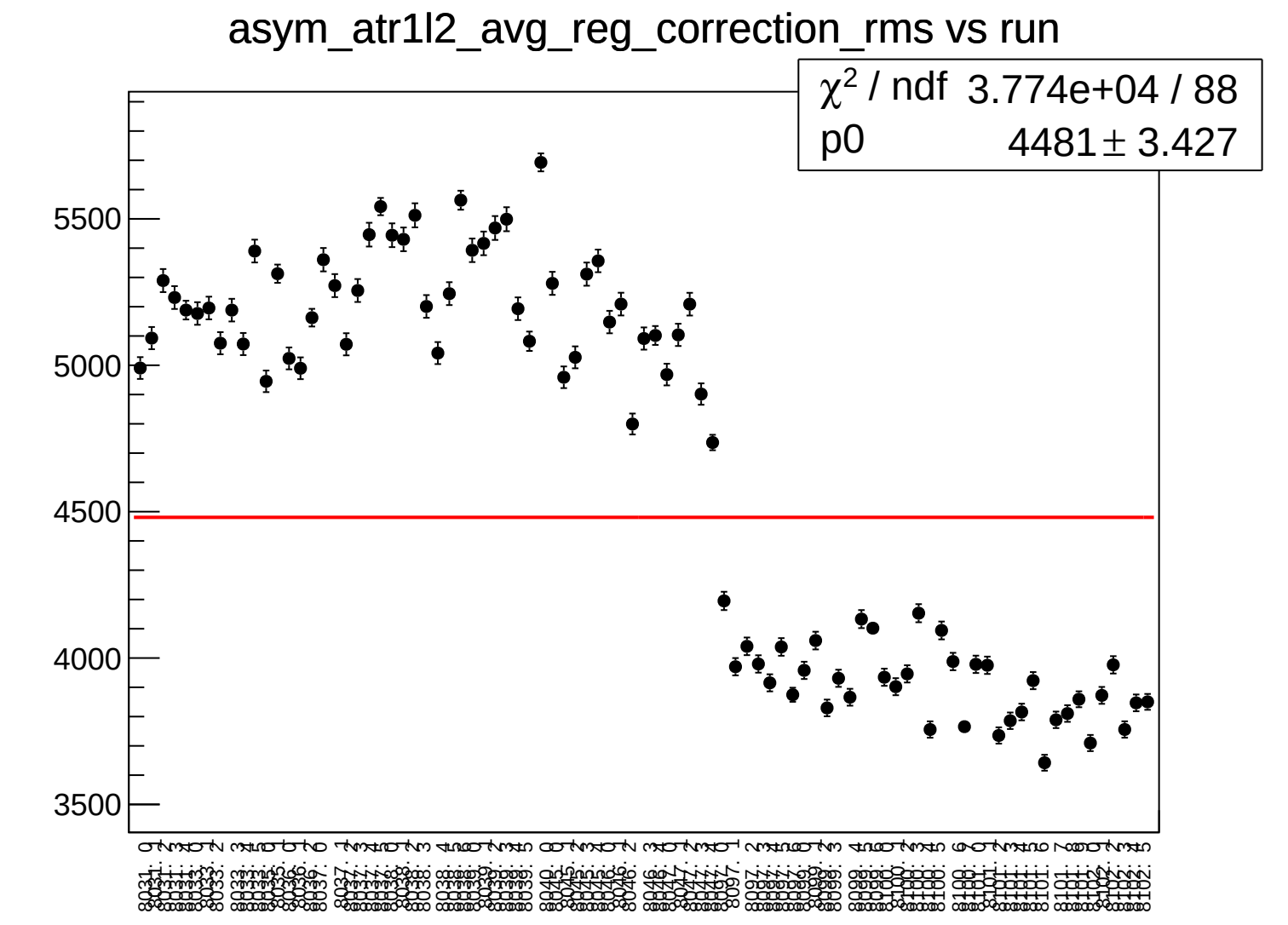

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 82.71 / 88
p0 3981 ± 1876
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 75.58
Std Dev 0
3
2
1
0
−1
−2

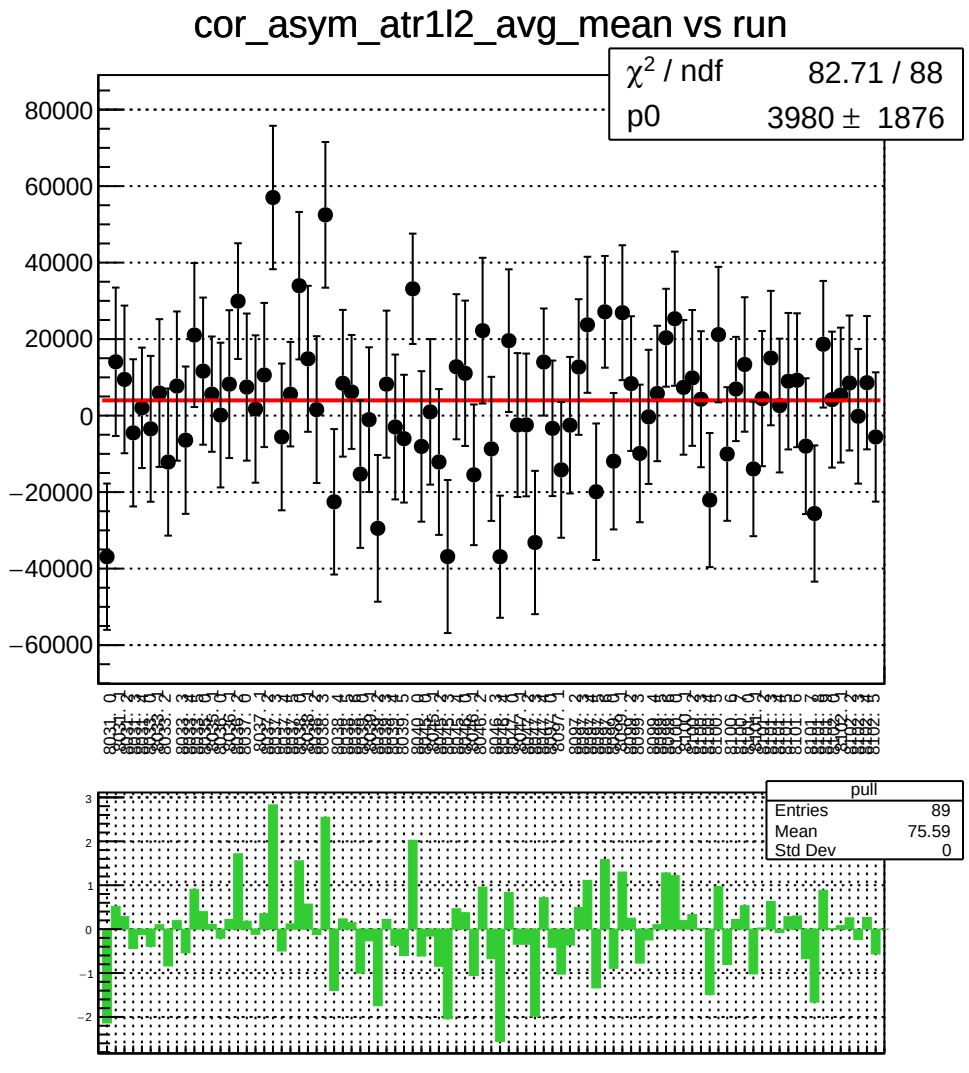

pull1D
Entries 89
Mean −0.02319
Std Dev 0.9638
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

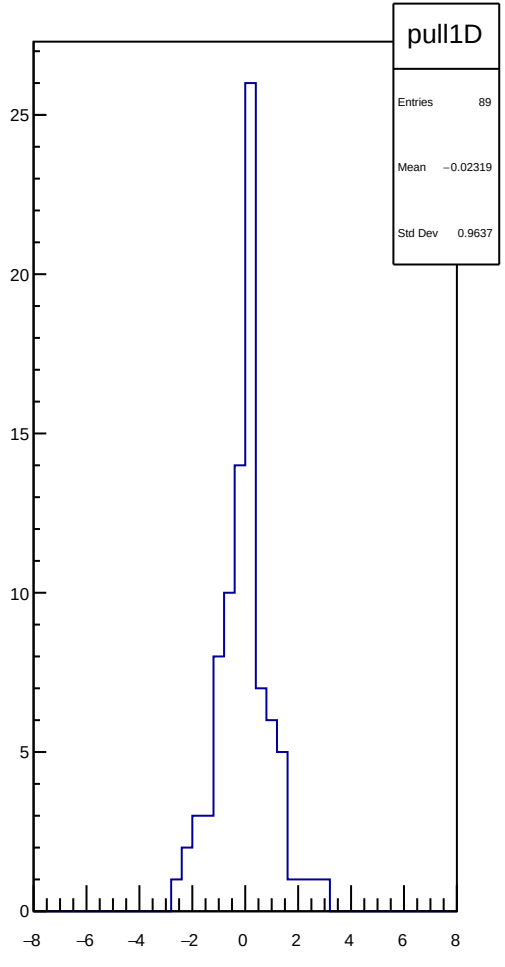

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 2998 / 88
p0 1752 ± 1.326
1900
1850
1800
1750
1700
1650

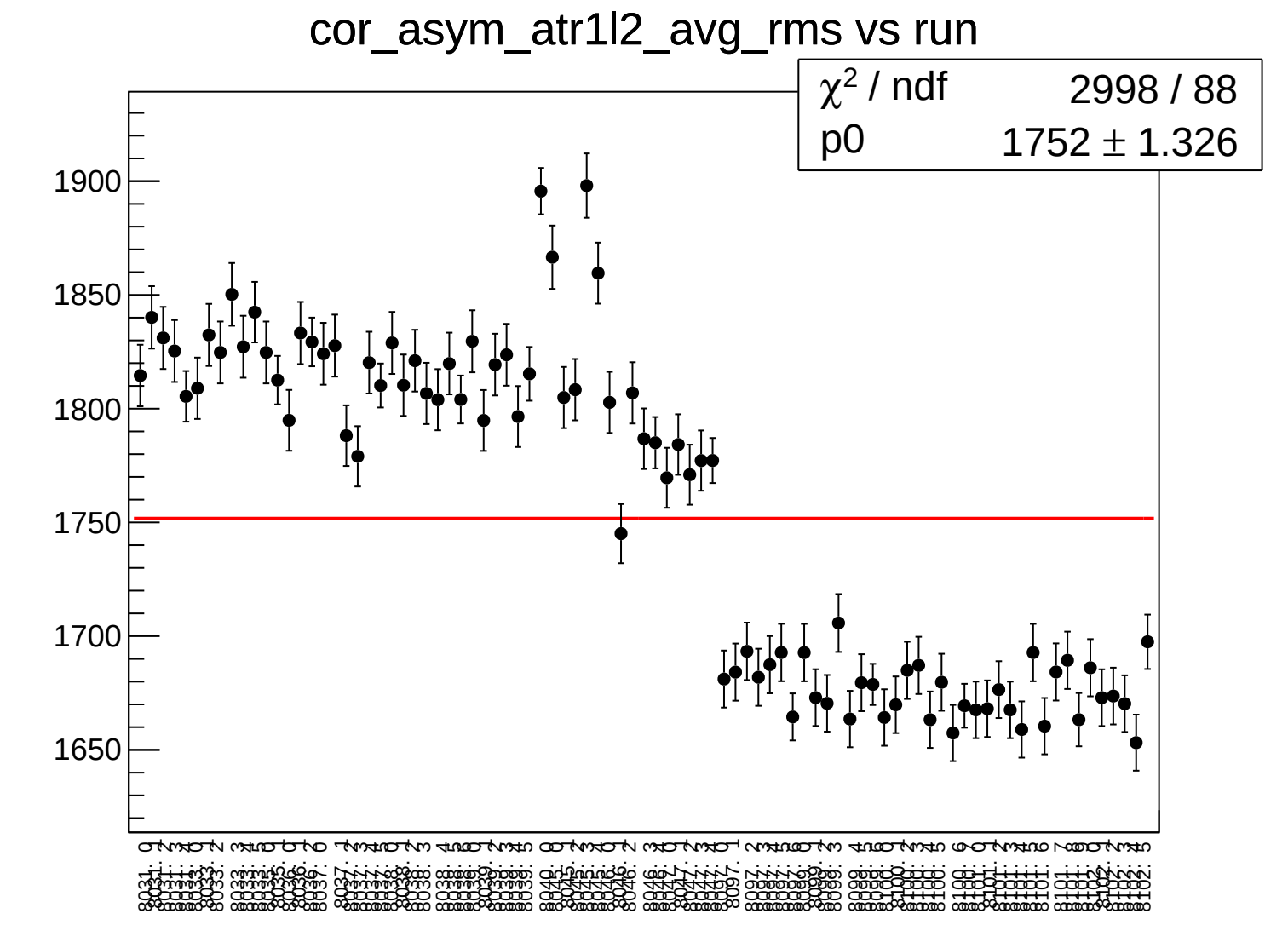

asym_atr1l2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 99.91 / 88
p0 1230 ± 4846
300
200
100
0
−100
−200
pull
Entries 89
Mean −162.6
Std Dev 0
3
2
1
0
−1
−2

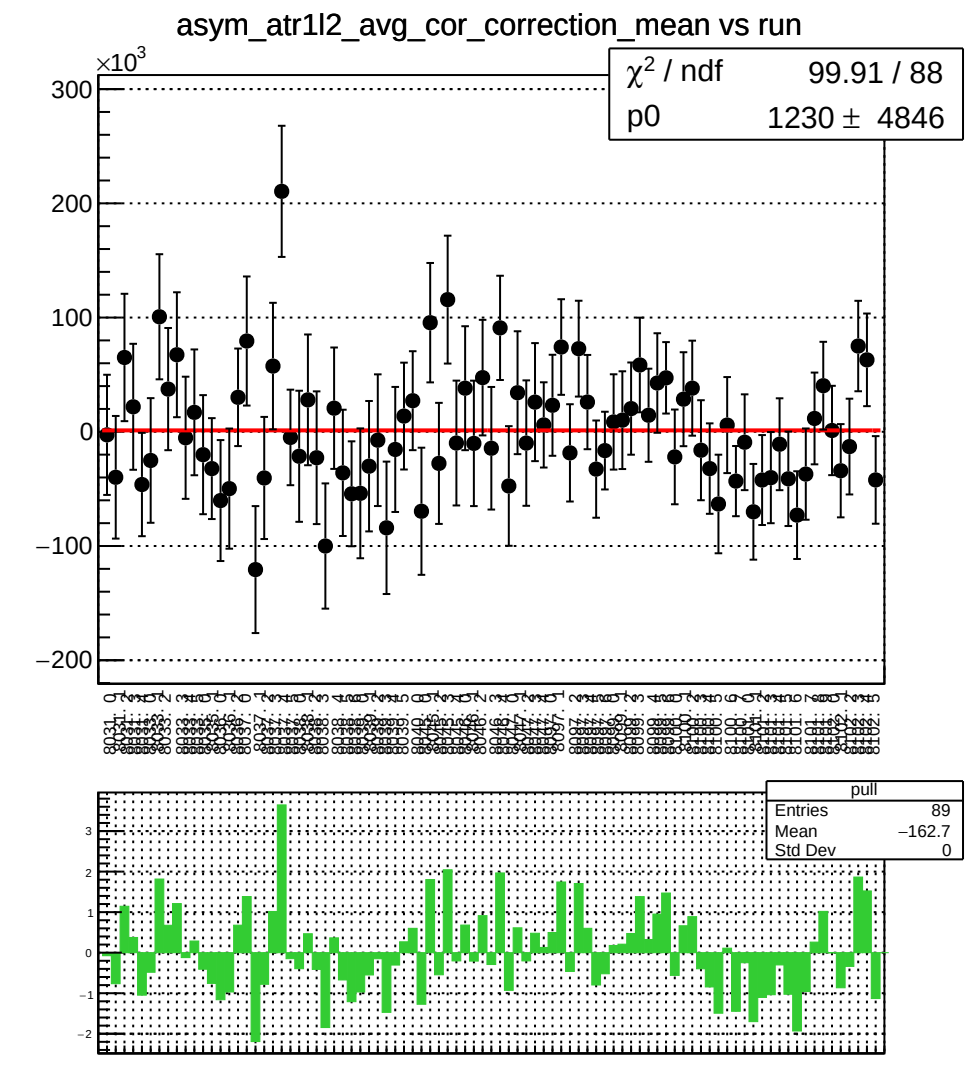

pull1D
Entries 89
Mean 0.008166
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

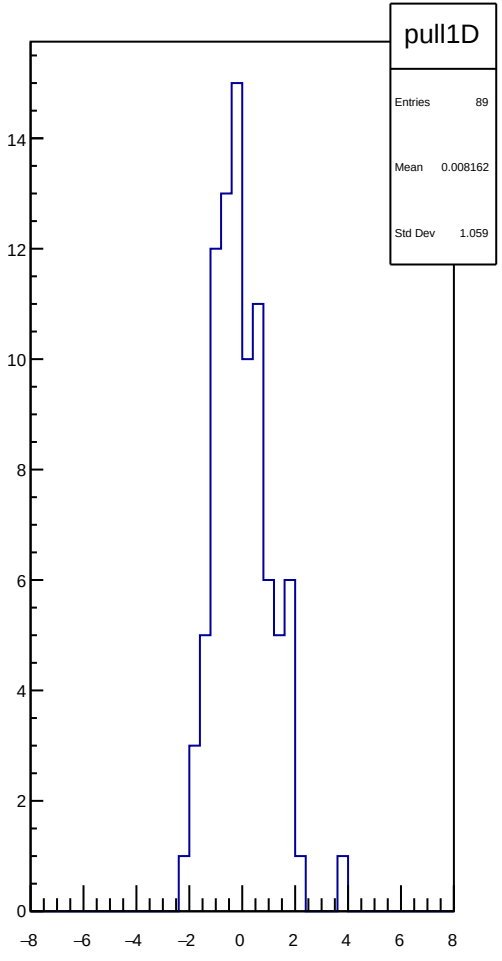

asym_atr1l2_avg_reg_correction_rms vs run
χ² / ndf 3.774e+04 / 88
p0 4481 ± 3.427
5500
5000
4500
4000
3500

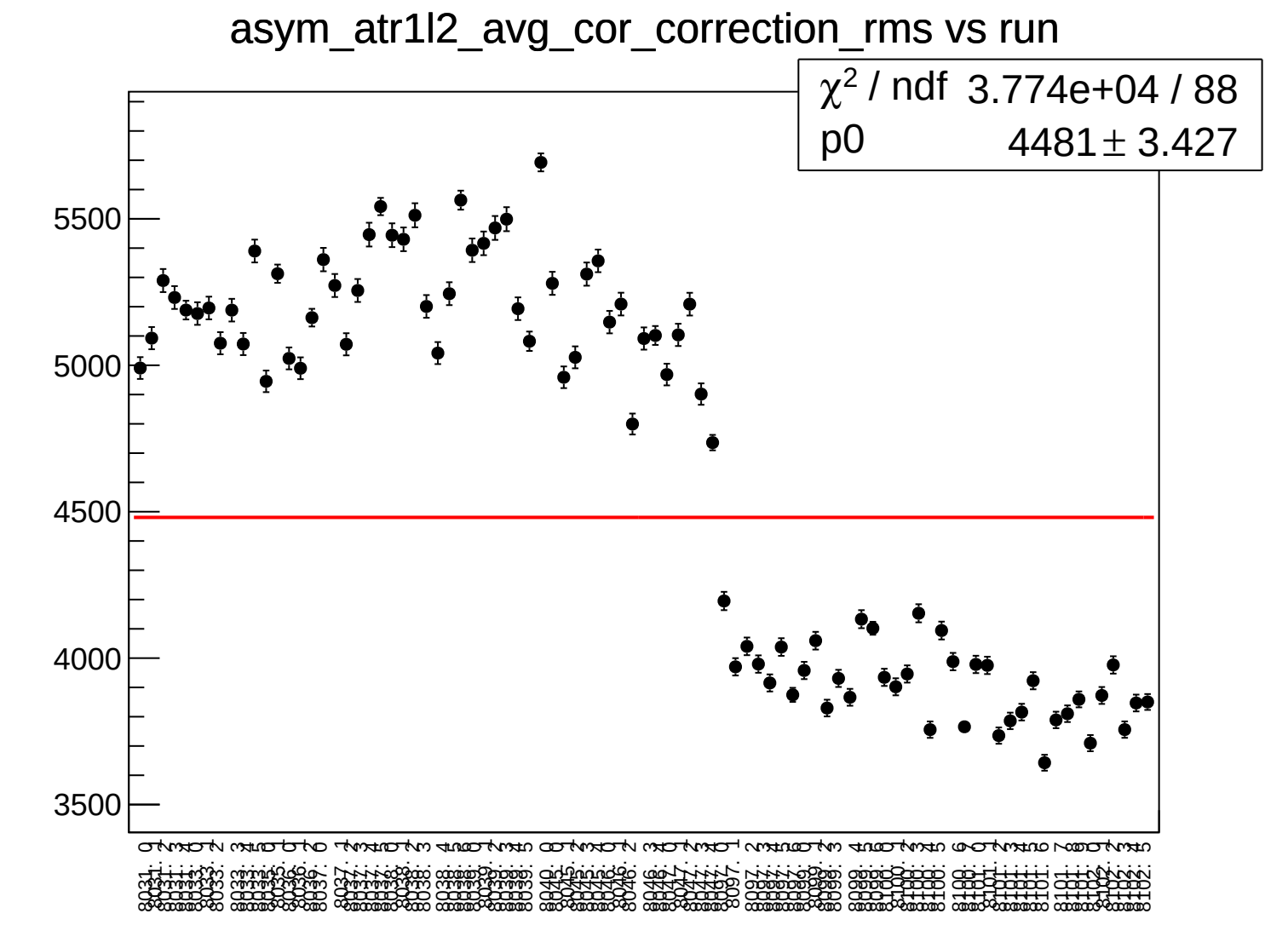

cor_asym_atr1l2_avg_mean vs run
χ² / ndf 82.71 / 88
p0 3980 ± 1876
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 75.59
Std Dev 0
3
2
1
0
−1
−2

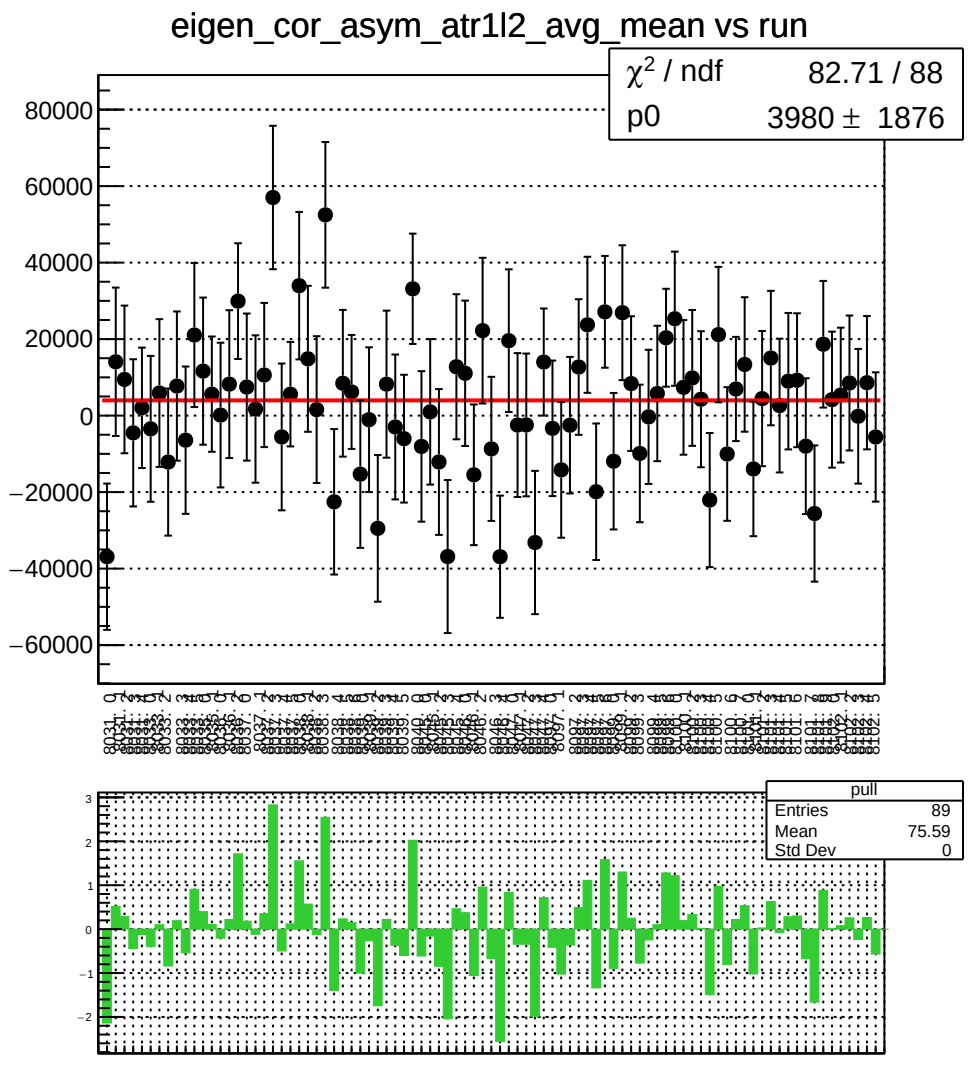

pull1D
Entries 89
Mean −0.02319
Std Dev 0.9637
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

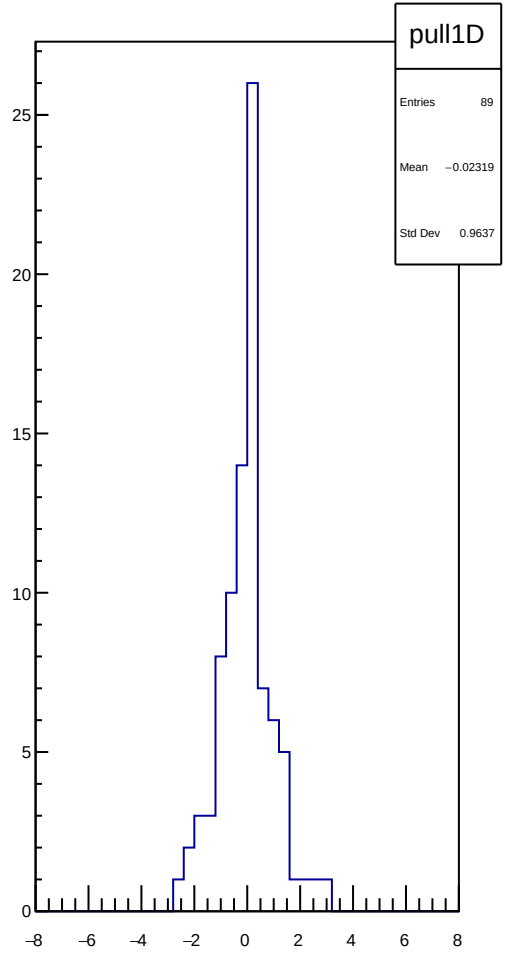

cor_asym_atr1l2_avg_rms vs run
χ² / ndf 2998 / 88
p0 1752 ± 1.326
1900
1850
1800
1750
1700
1650

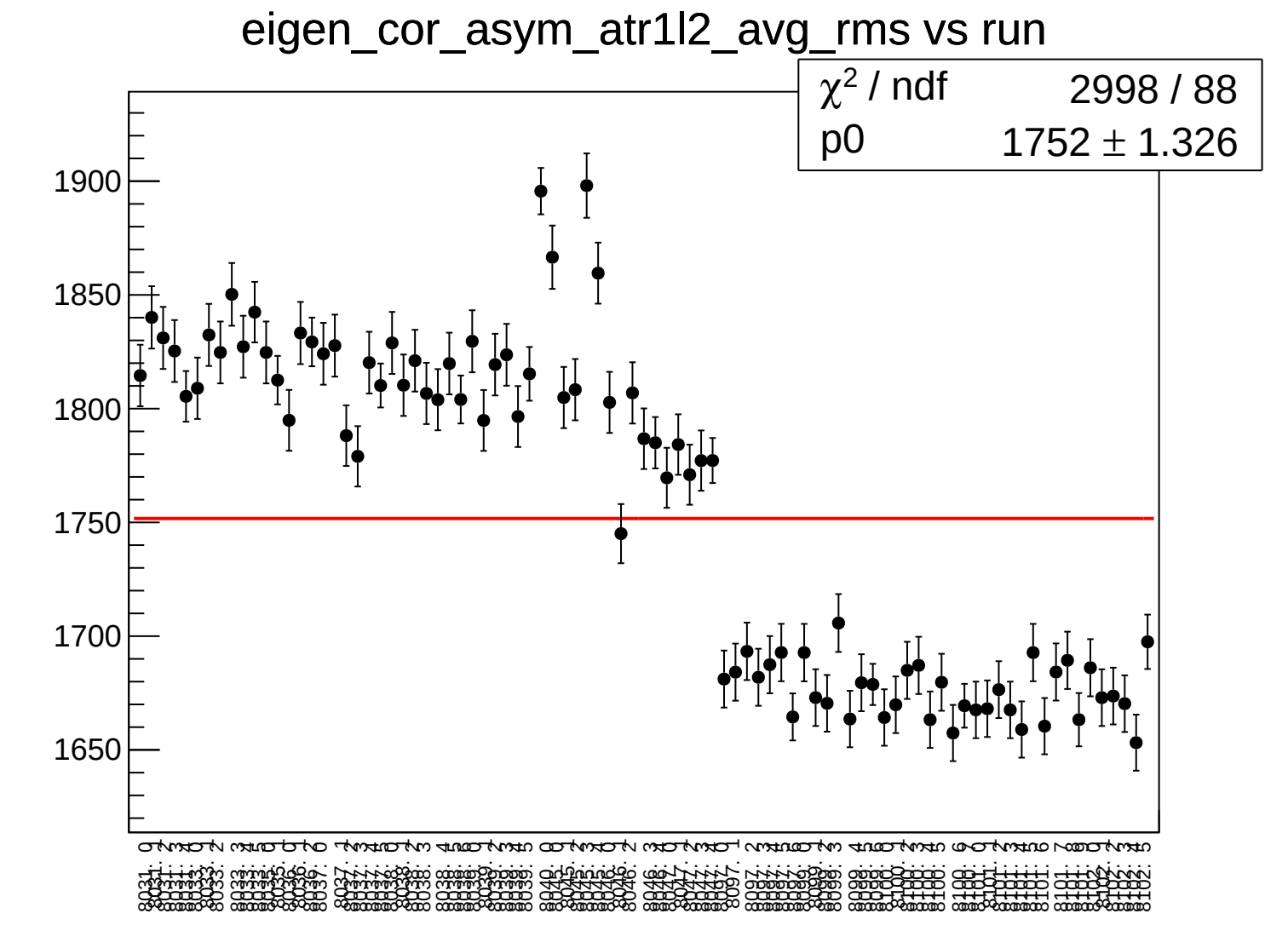

asym_atr1l2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 99.91 / 88
p0 1230 ± 4846
300
200
100
0
−100
−200
pull
Entries 89
Mean −162.7
Std Dev 0
3
2
1
0
−1
−2

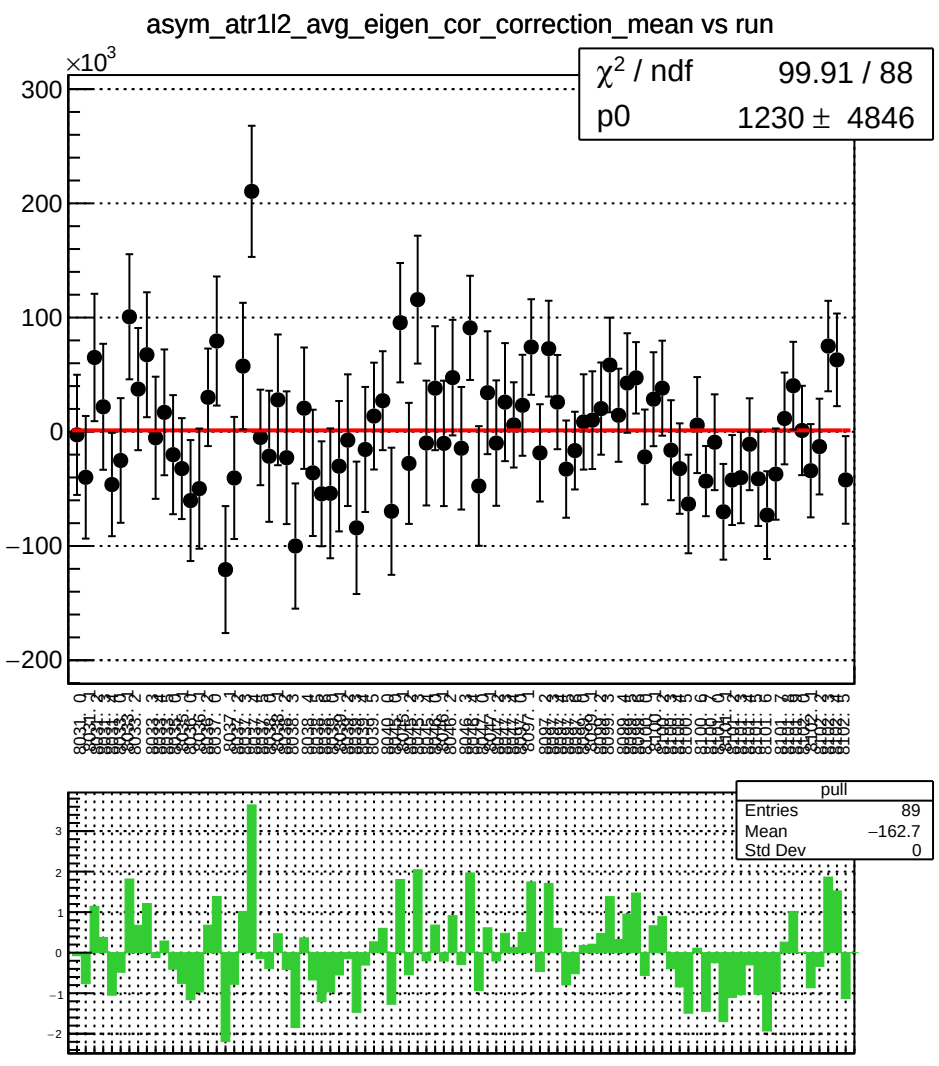

pull1D
Entries 89
Mean 0.008162
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

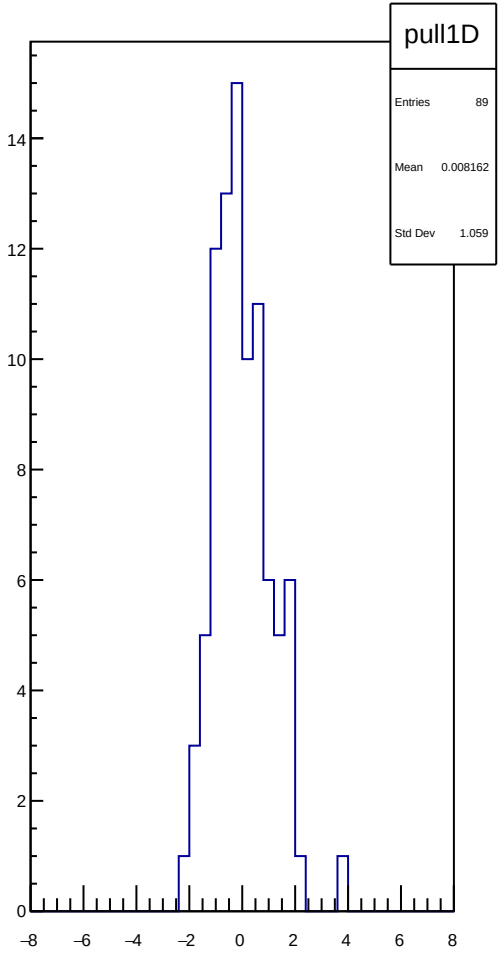

asym_atr1l2_avg_cor_correction_rms vs run
χ² / ndf 3.774e+04 / 88
p0 4481 ± 3.427
5500
5000
4500
4000
3500

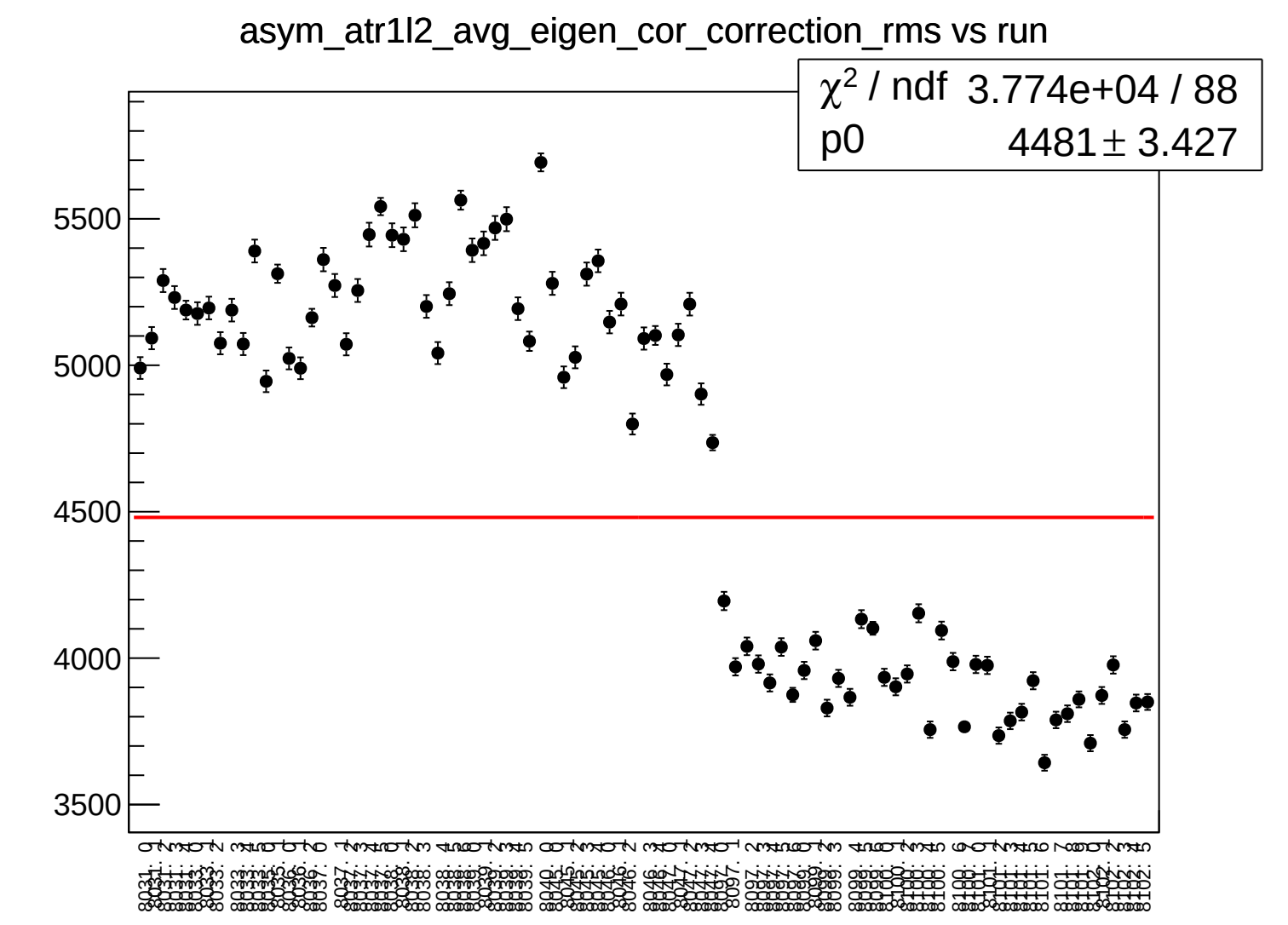

eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 82.71 / 88
p0 3980 ± 1876
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 75.59
Std Dev 0
3
2
1
0
−1
−2

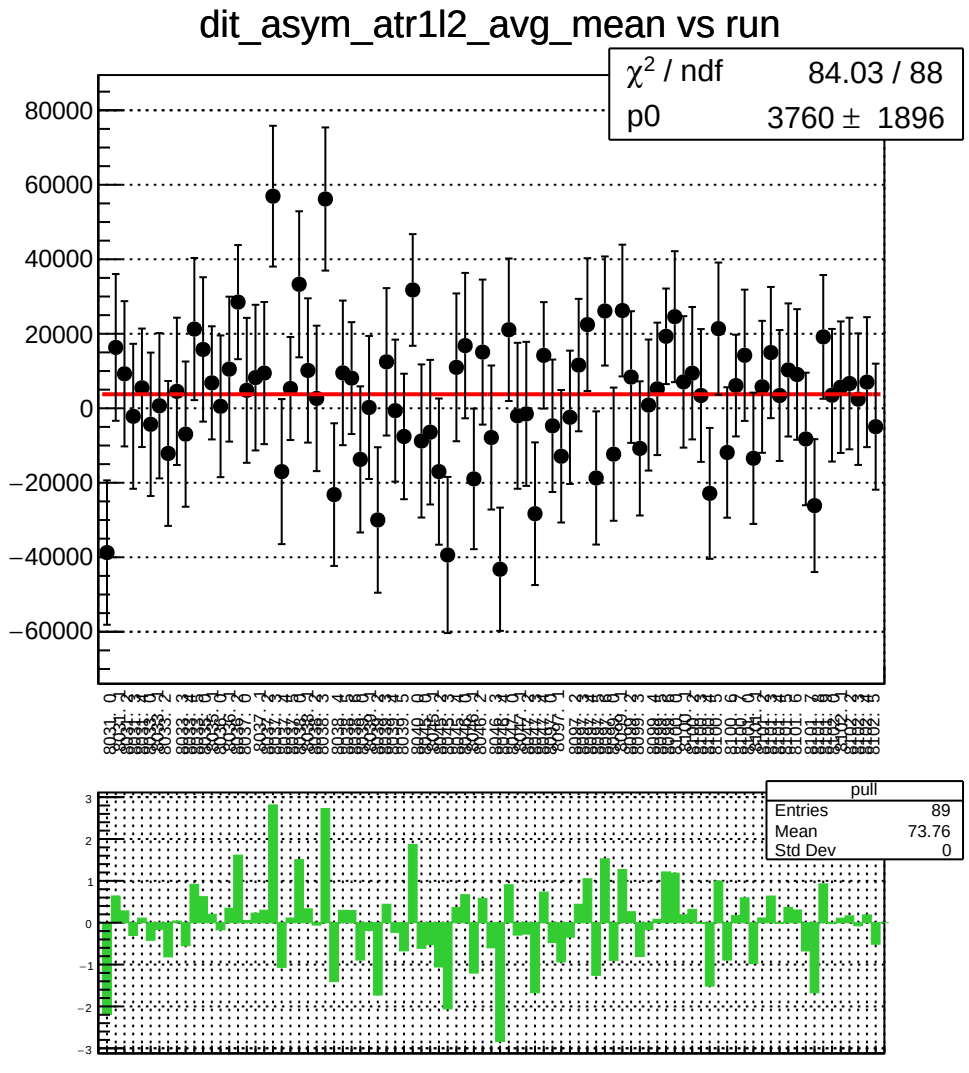

pull1D
Entries 89
Mean −0.02319
Std Dev 0.9637
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

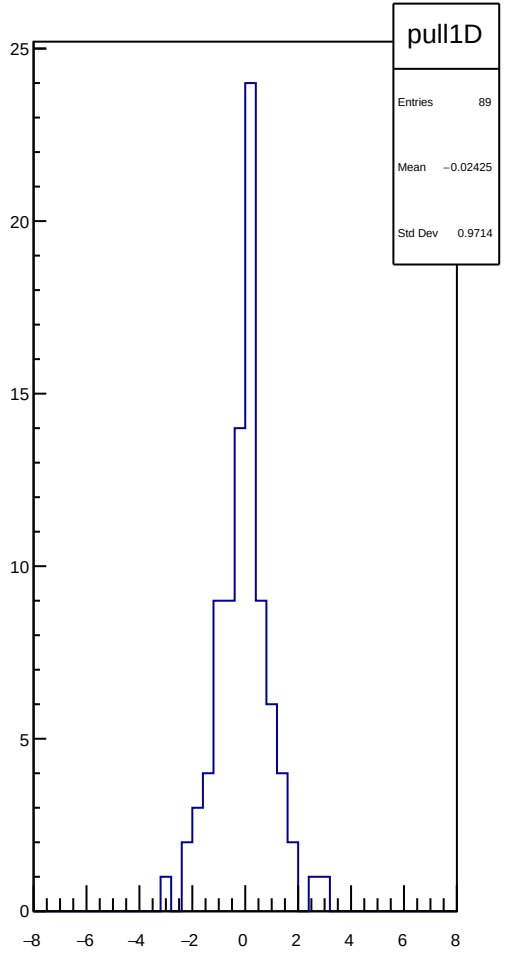

eigen_cor_asym_atr1l2_avg_rms vs run
χ² / ndf 2998 / 88
p0 1752 ± 1.326
1900
1850
1800
1750
1700
1650

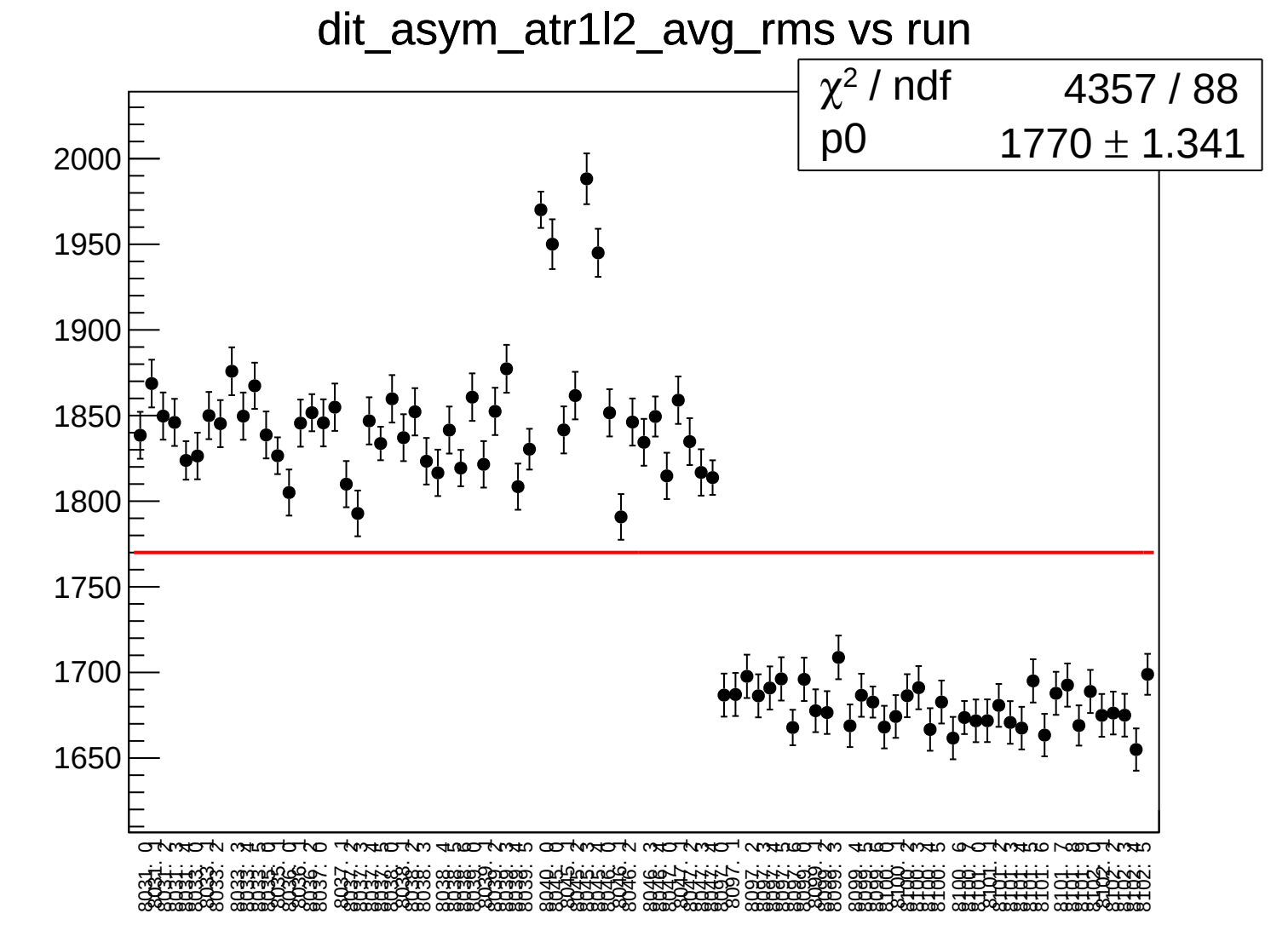

asym_atr1l2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 99.91 / 88
p0 1230 ± 4846
pull
Entries 89
Mean −162.7
Std Dev 0

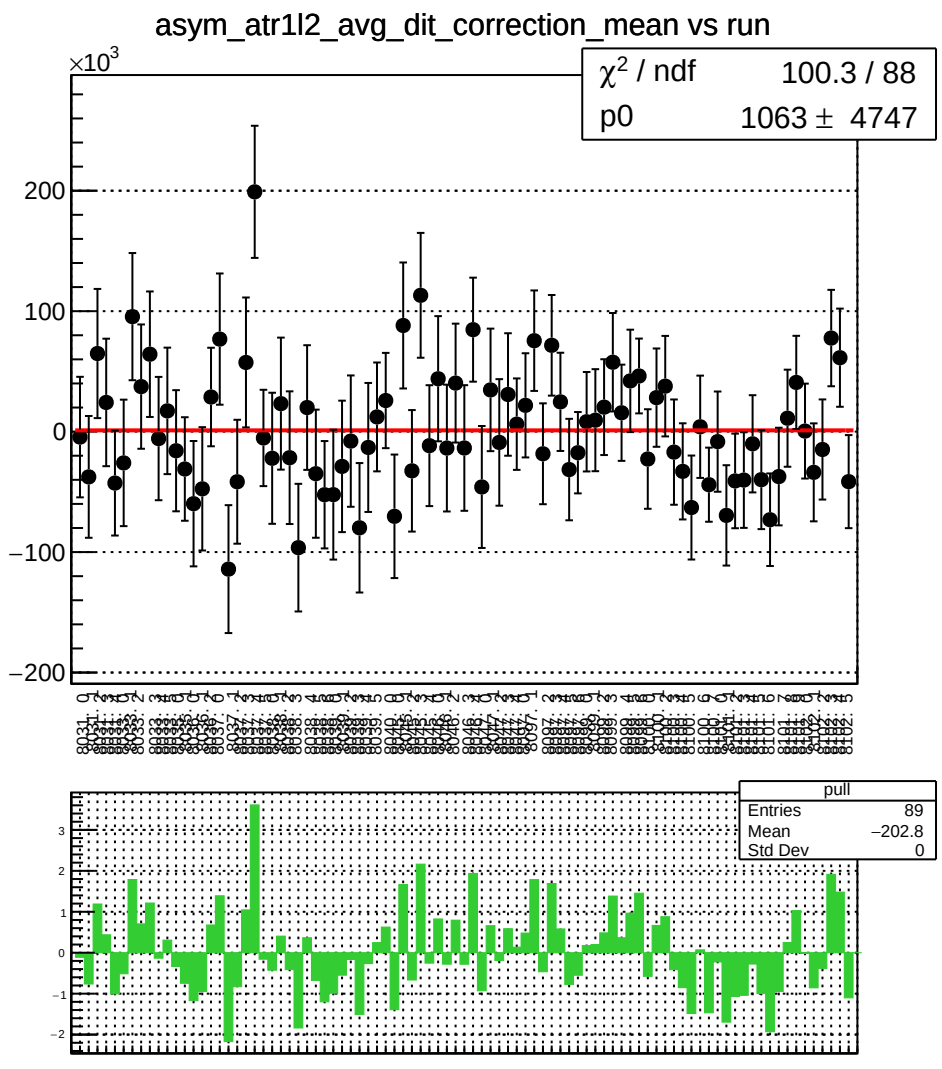

pull1D
Entries 89
Mean 0.008162
Std Dev 1.059

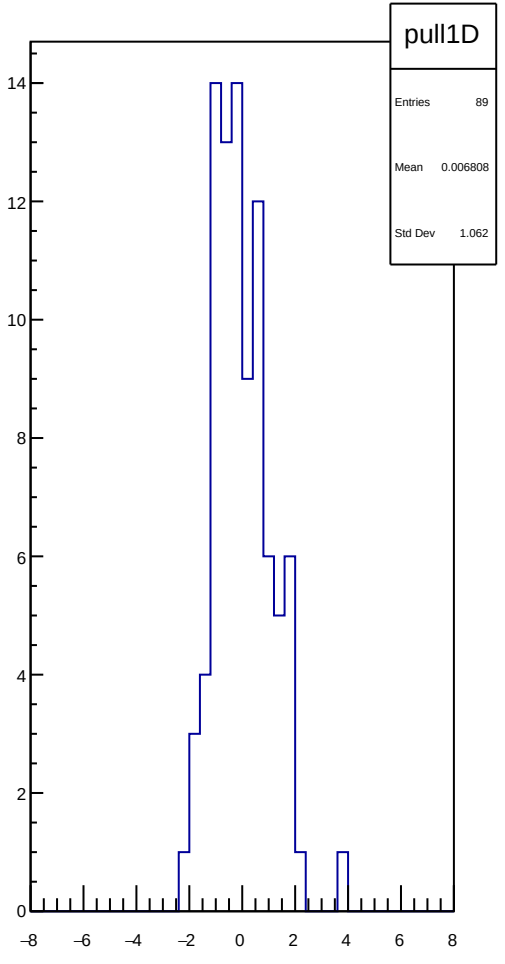

asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.774e+04 / 88
p0 4481 ± 3.427
5500
5000
4500
4000
3500

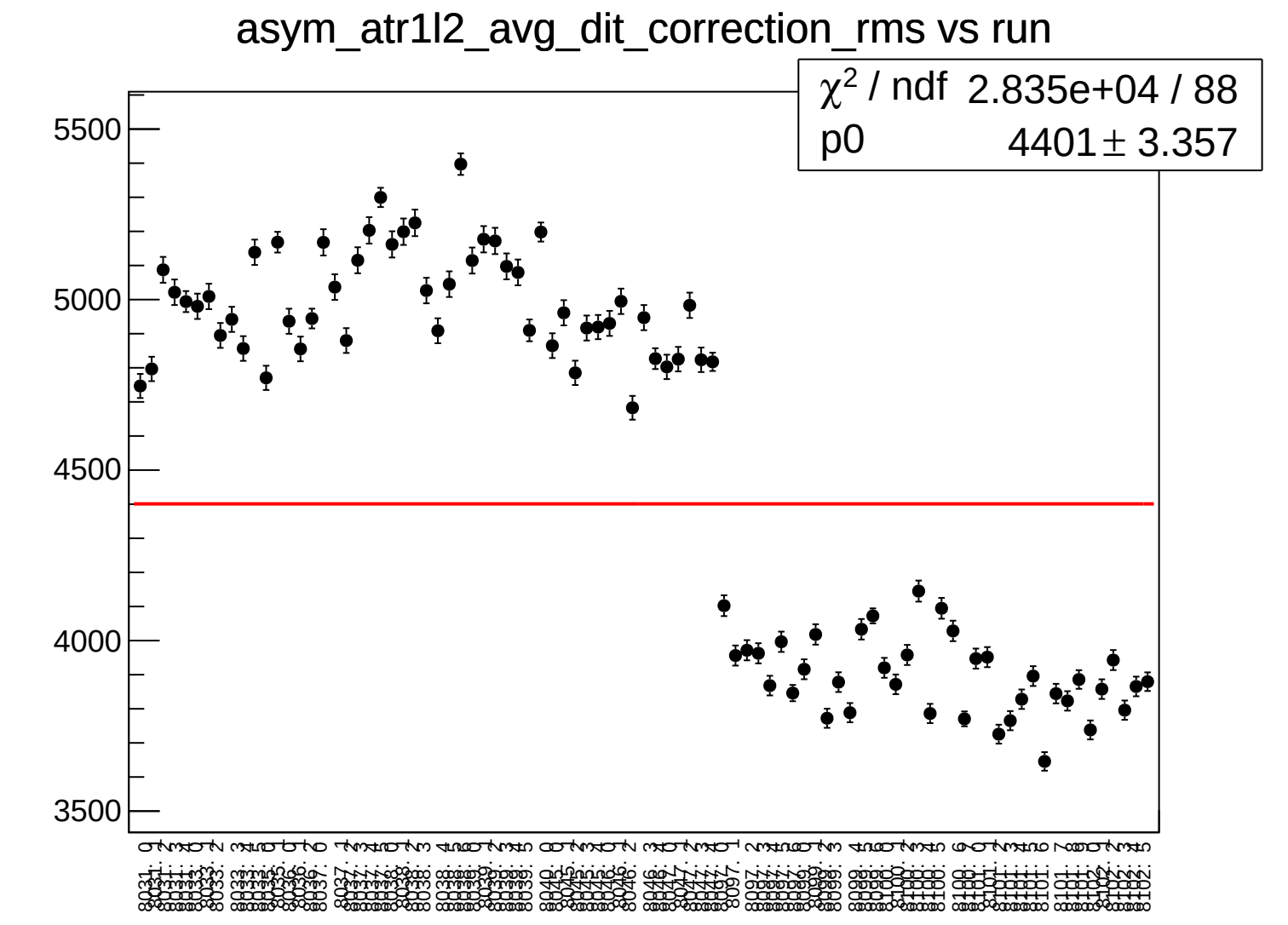

dit_asym_atr1l2_avg_mean vs run
χ² / ndf 84.03 / 88
p0 3760 ± 1896
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 73.76
Std Dev 0
3
2
1
0
−1
−2
−3

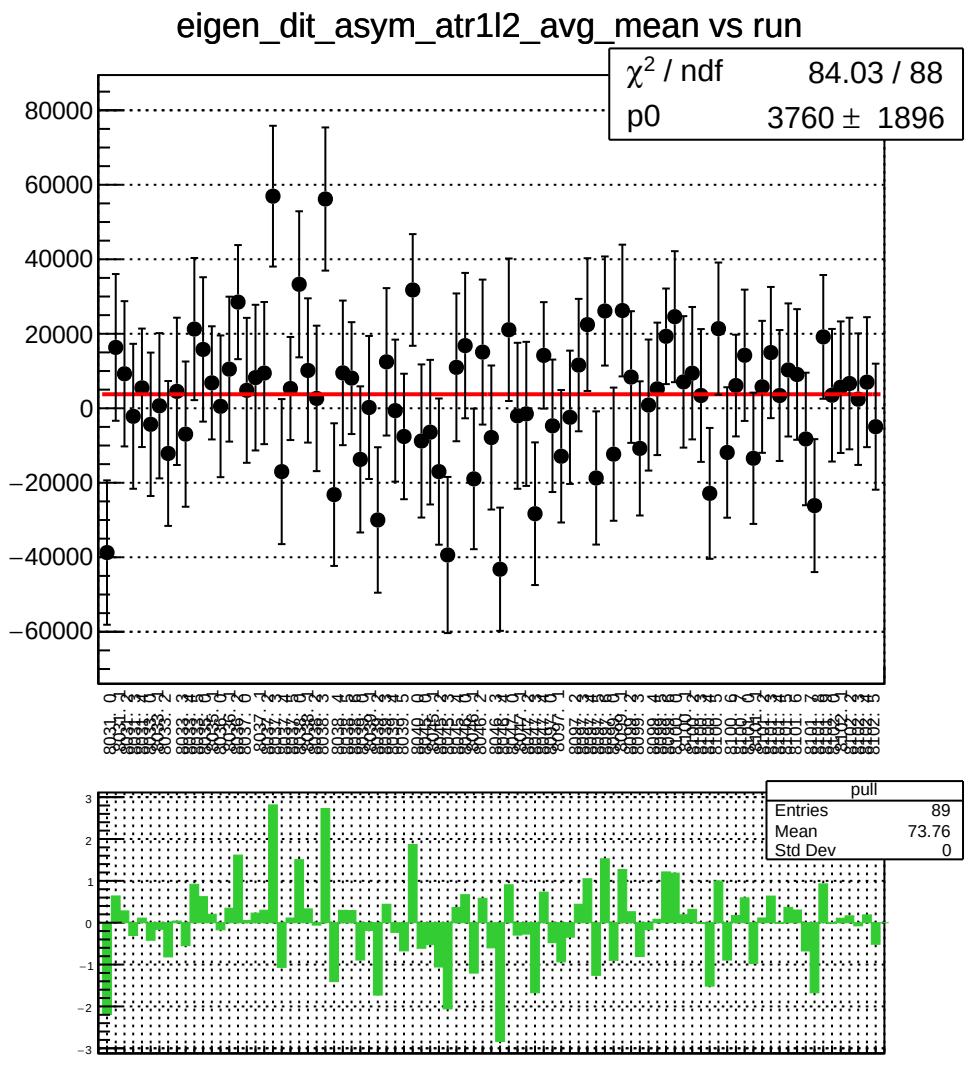

pull1D
Entries 89
Mean −0.02425
Std Dev 0.9714
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

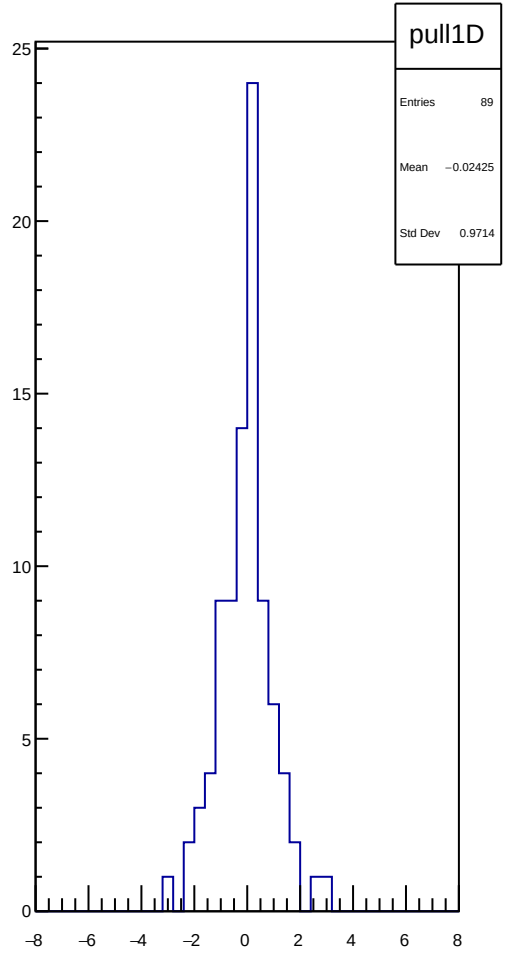

dit_asym_atr1l2_avg_rms vs run
χ² / ndf 4357 / 88
p0 1770 ± 1.341
2000
1950
1900
1850
1800
1750
1700
1650

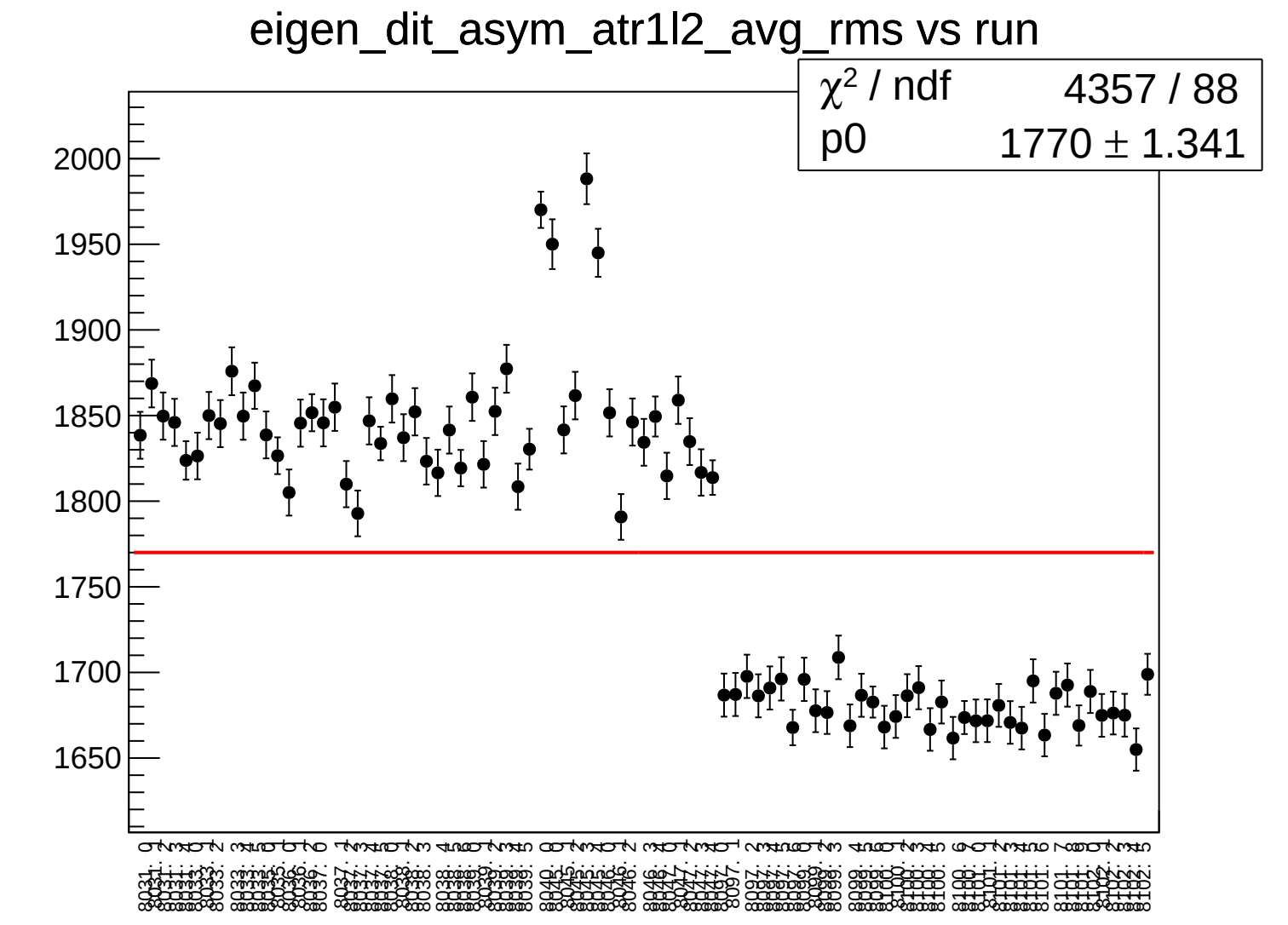

asym_atr1l2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 100.3 / 88
p0 1063 ± 4747
200
100
0
−100
−200
pull
Entries 89
Mean −202.8
Std Dev 0
3
2
1
0
−1
−2

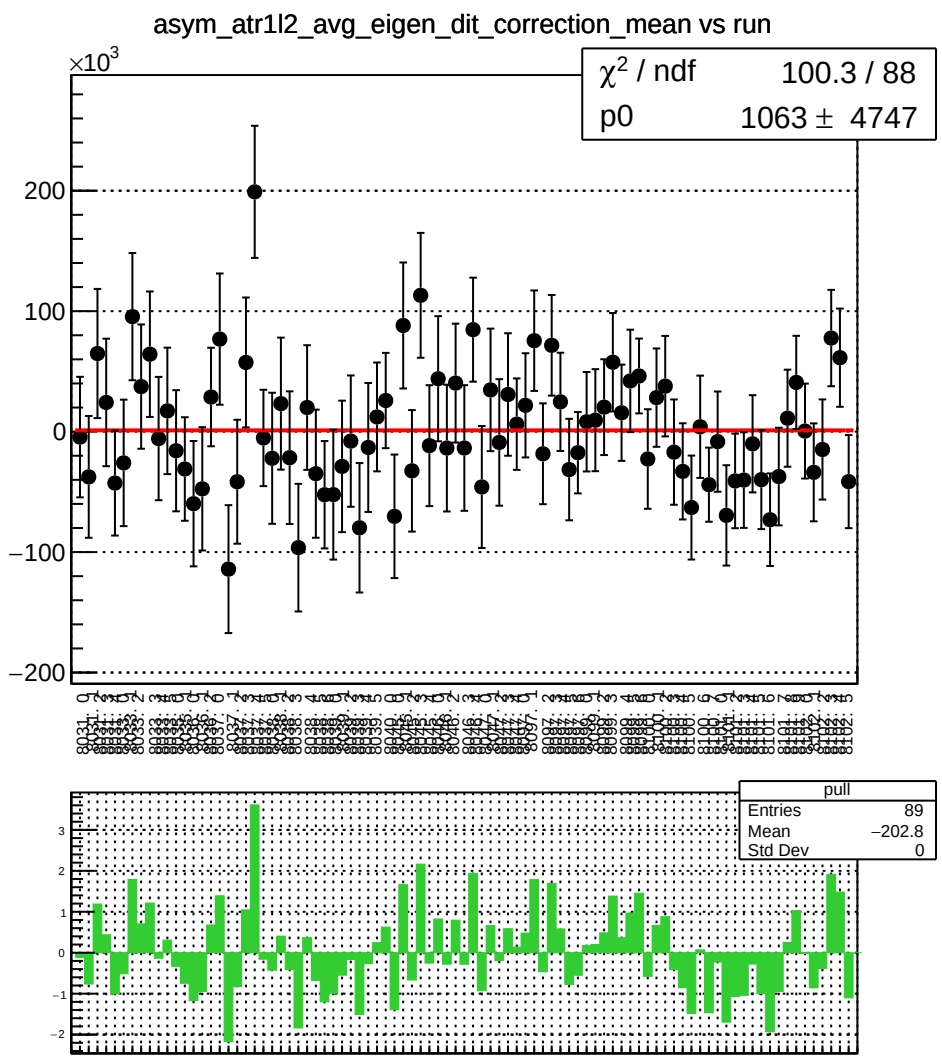

pull1D
Entries 89
Mean 0.006808
Std Dev 1.062
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

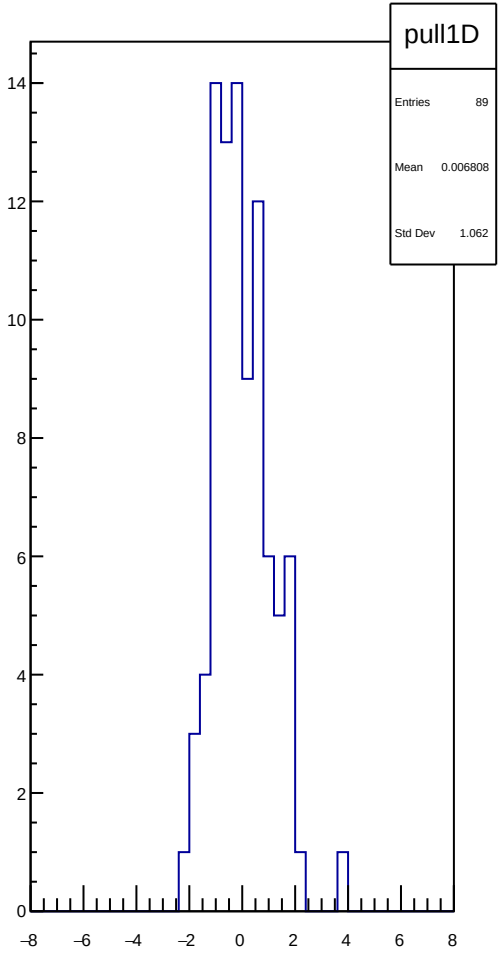

asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 2.835e+04 / 88
p0 4401 ± 3.357
5500
5000
4500
4000
3500

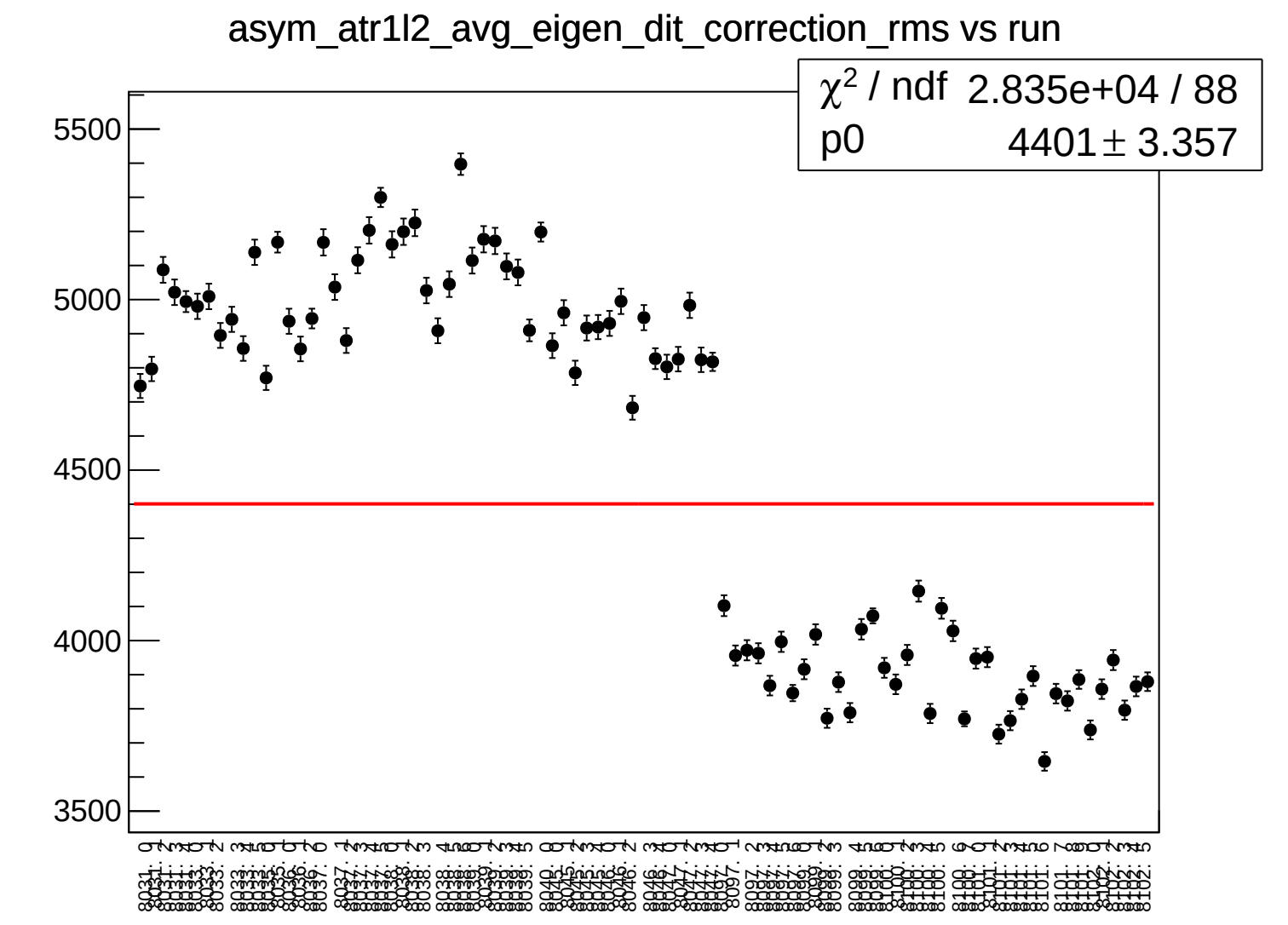

eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 84.03 / 88
p0 3760 ± 1896
pull
Entries 89
Mean 73.76
Std Dev 0

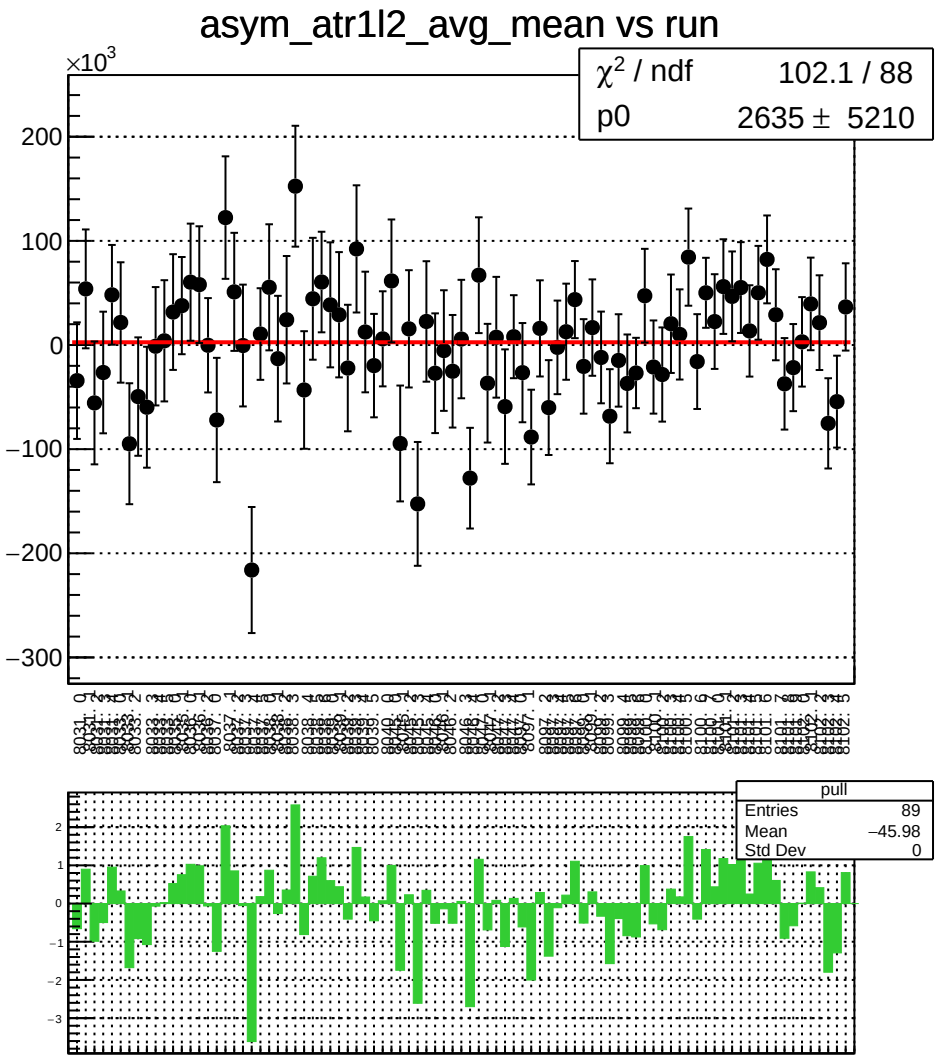

pull1D
Entries 89
Mean −0.02425
Std Dev 0.9714

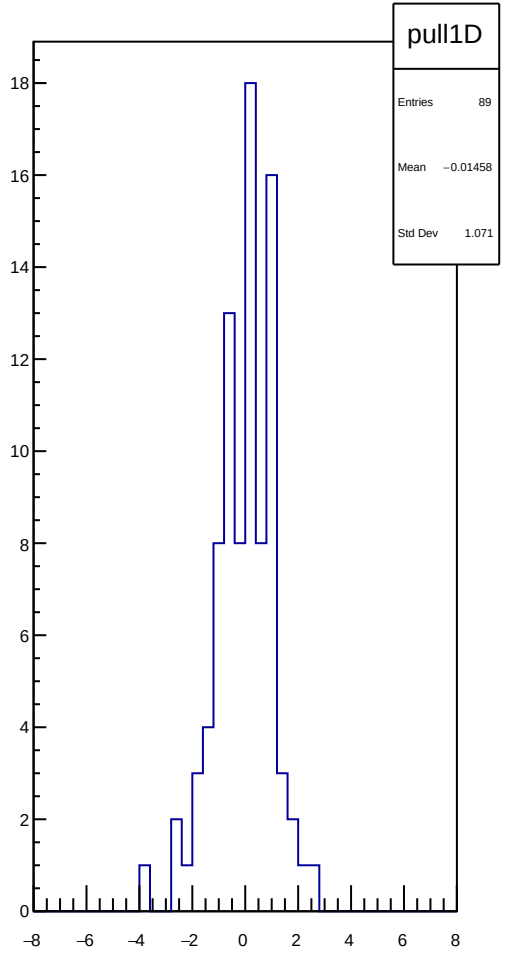

eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 4357 / 88
p0 1770 ± 1.341
2000
1950
1900
1850
1800
1750
1700
1650

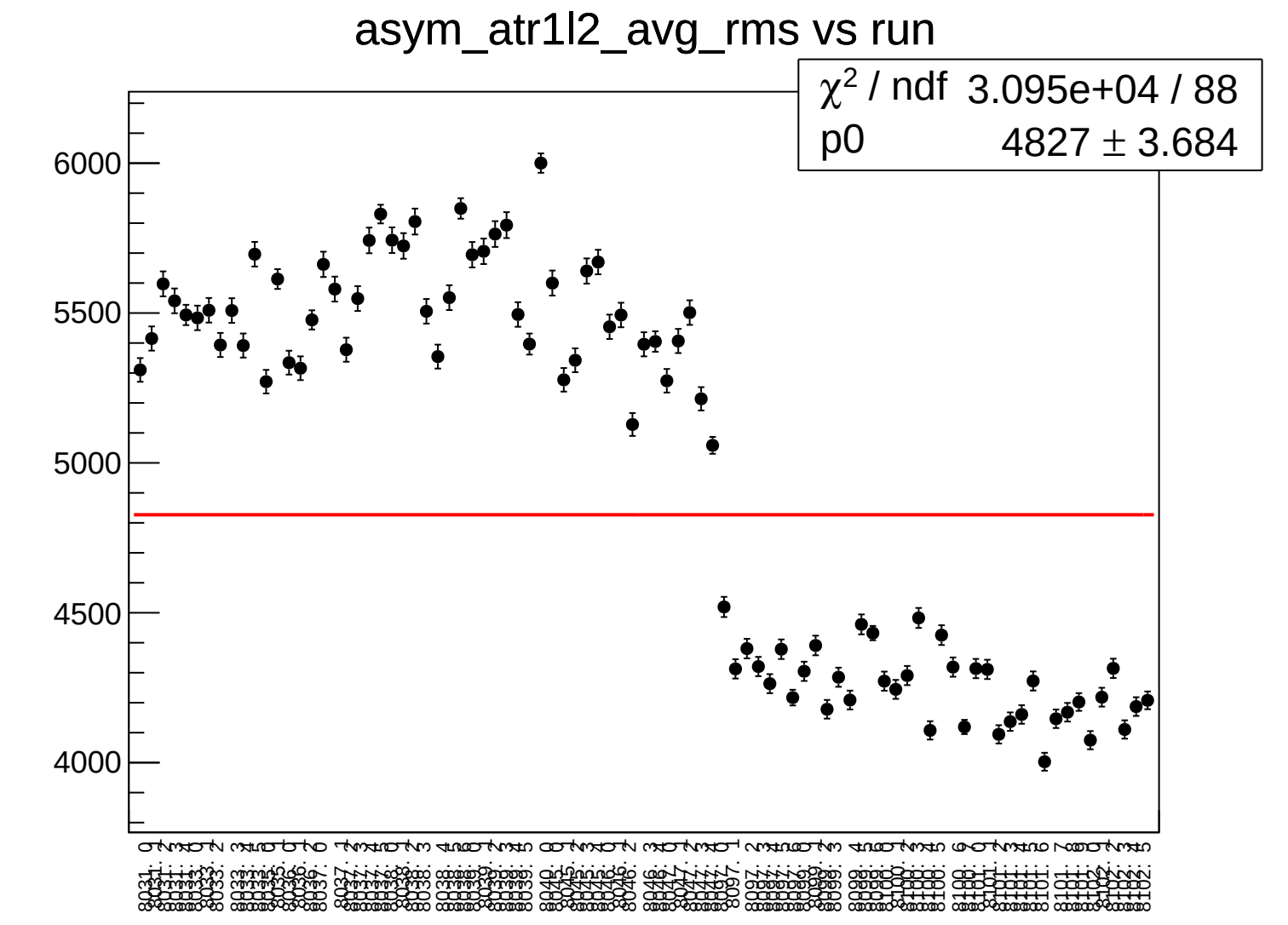

asym_atr1l2_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 100.3 / 88
p0 1063 ± 4747
200
100
0
−100
−200
pull
Entries 89
Mean −202.8
Std Dev 0
3
2
1
0
−1
−2

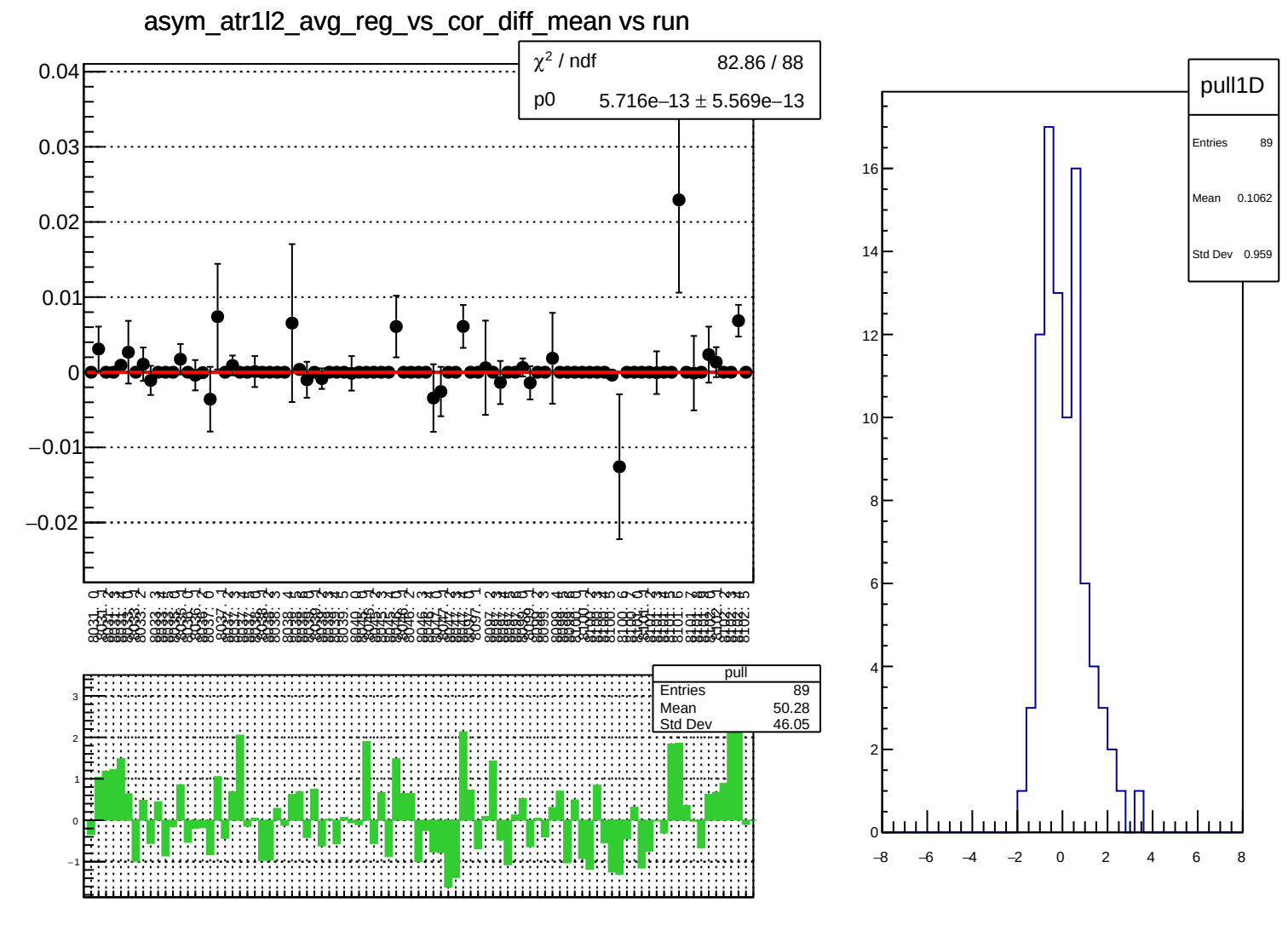

pull1D
Entries 89
Mean 0.006808
Std Dev 1.062
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

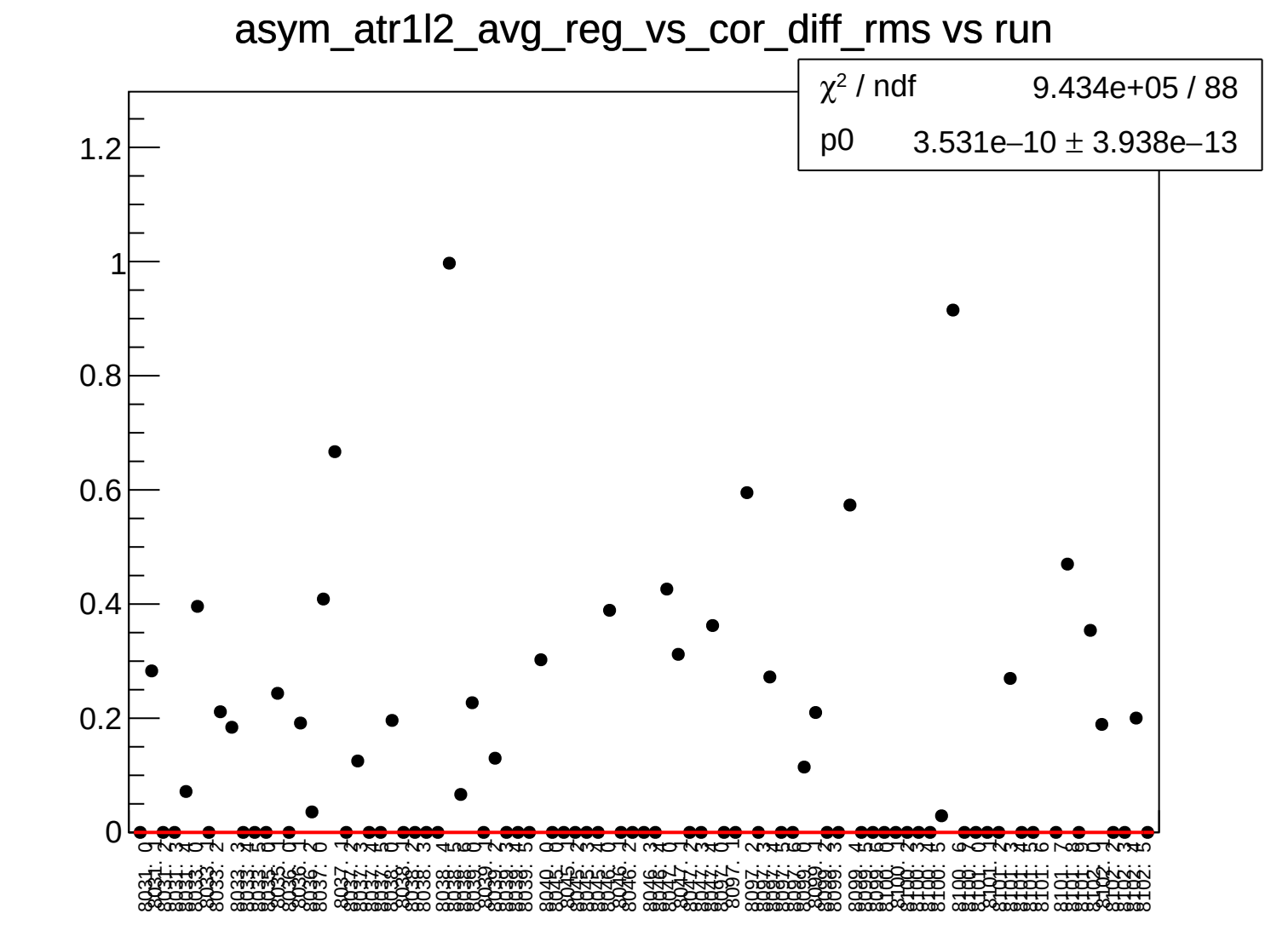

asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.835e+04 / 88
p0 4401 ± 3.357
5500
5000
4500
4000
3500

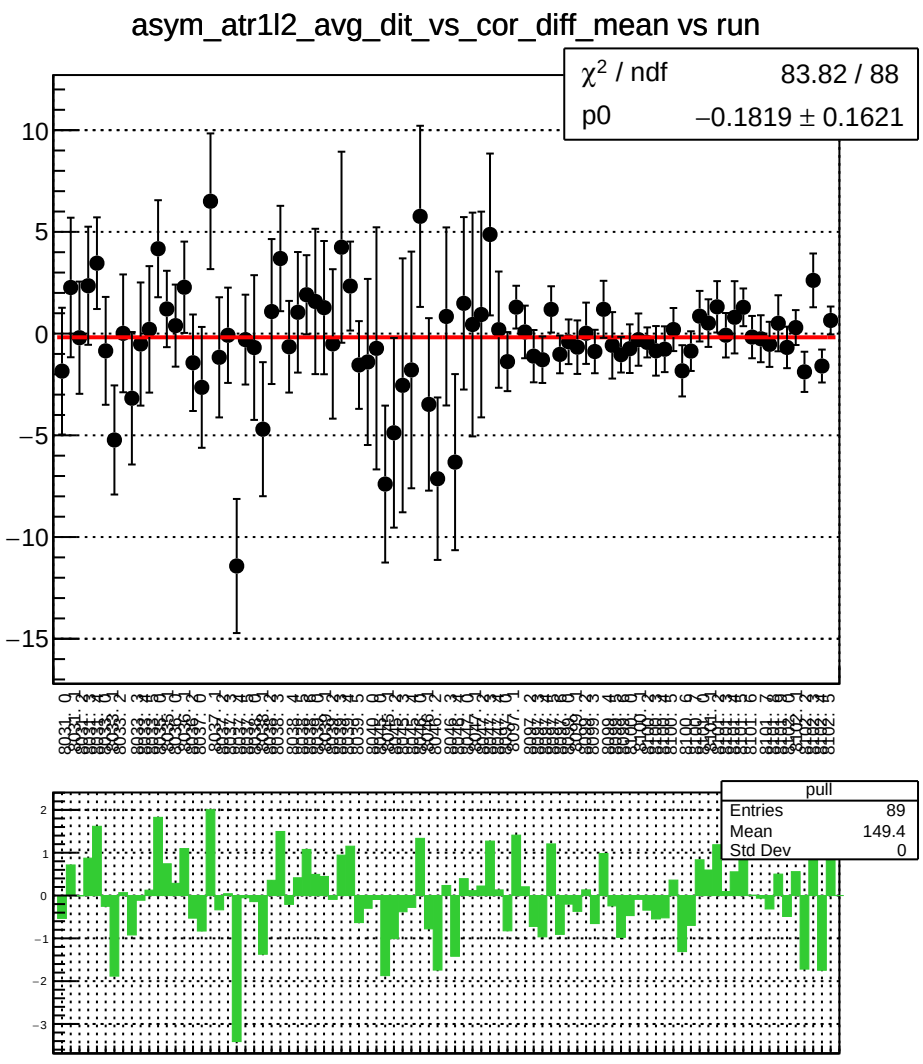

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 102.1 / 88
p0 2635 ± 5210
200
100
0
−100
−200
−300
pull
Entries 89
Mean −45.98
Std Dev 0
2
1
0
−1
−2
−3

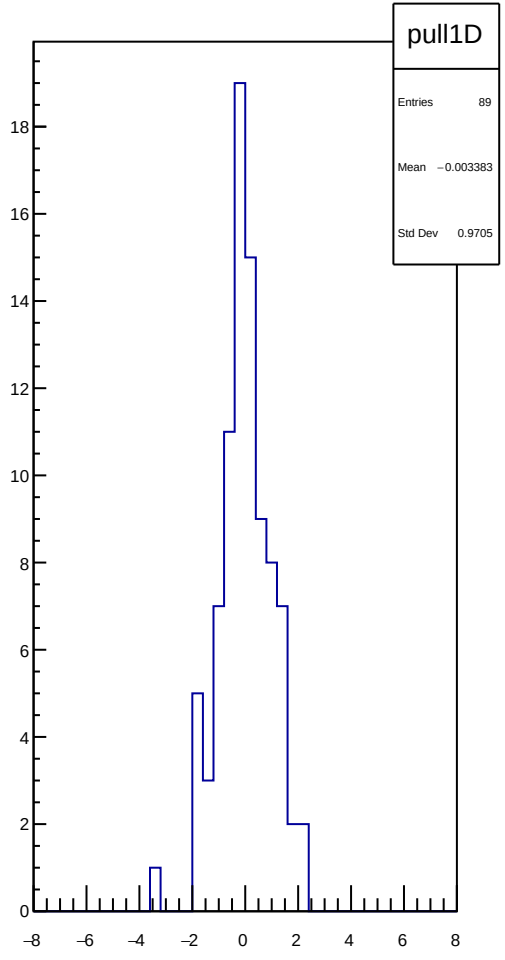

pull1D
Entries 89
Mean −0.01458
Std Dev 1.071
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

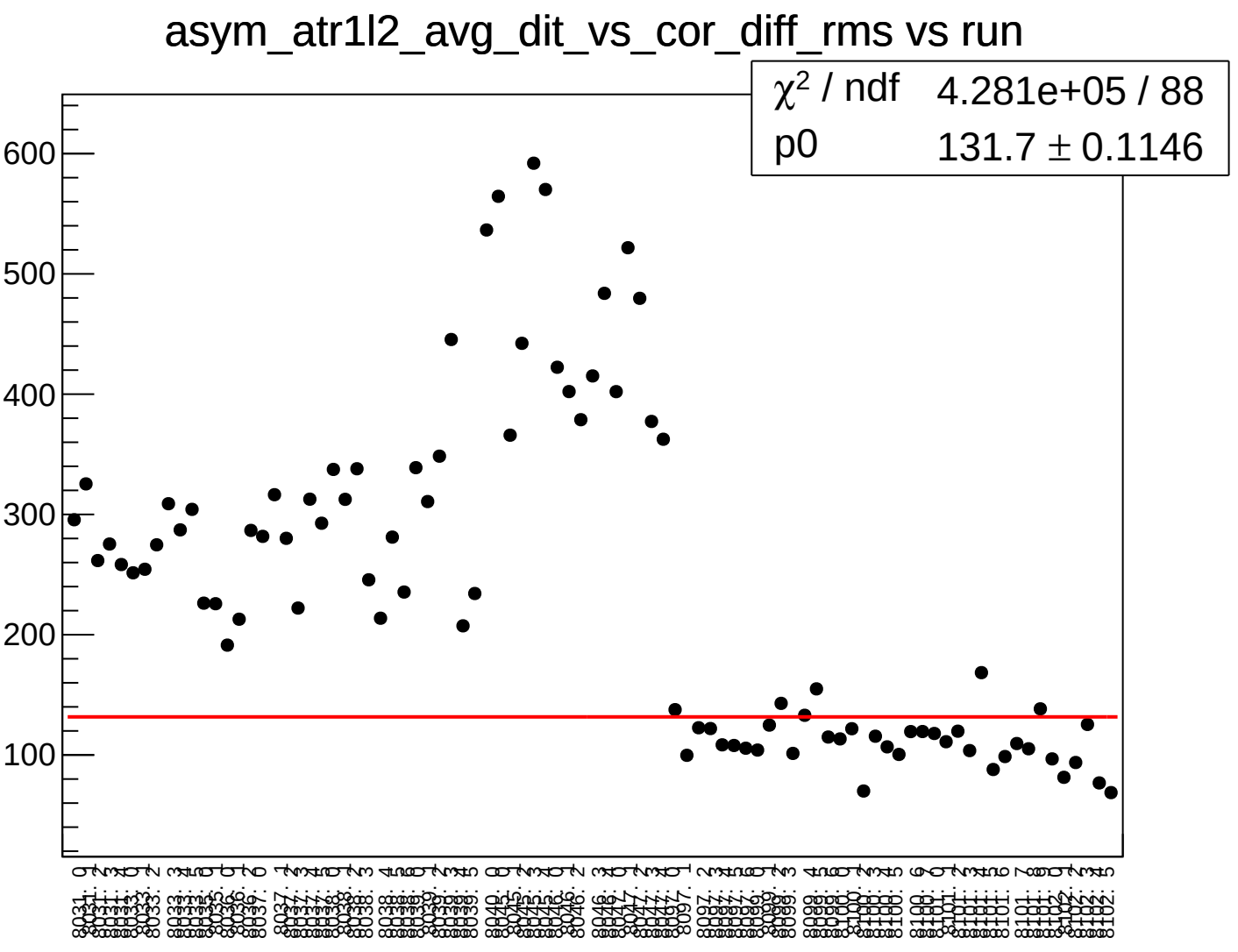

asym_atr1l2_avg_rms vs run
χ² / ndf 3.095e+04 / 88
p0 4827 ± 3.684
6000
5500
5000
4500
4000

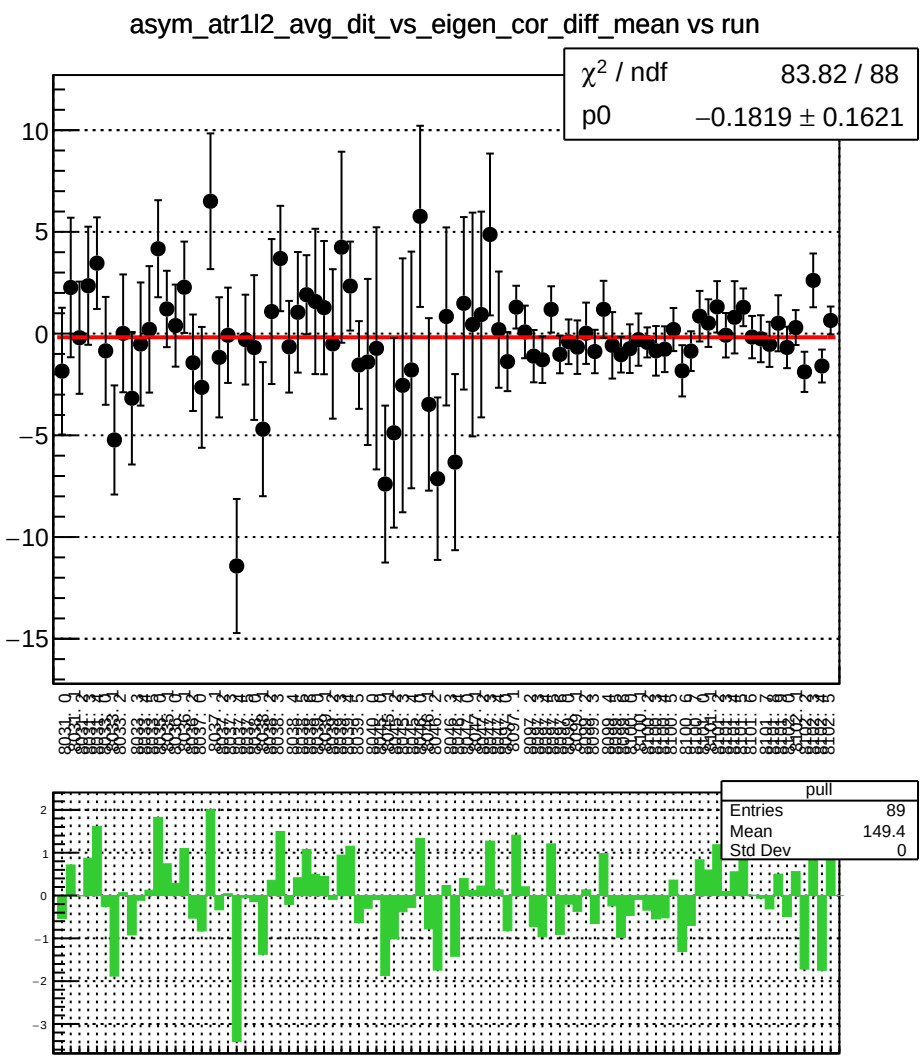

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 82.86 / 88
p0 5.716e−13 ± 5.569e−13
0.04
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 89
Mean 50.28
Std Dev 46.05
3
2
1
0
−1
pull1D
Entries 89
Mean 0.1062
Std Dev 0.959
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

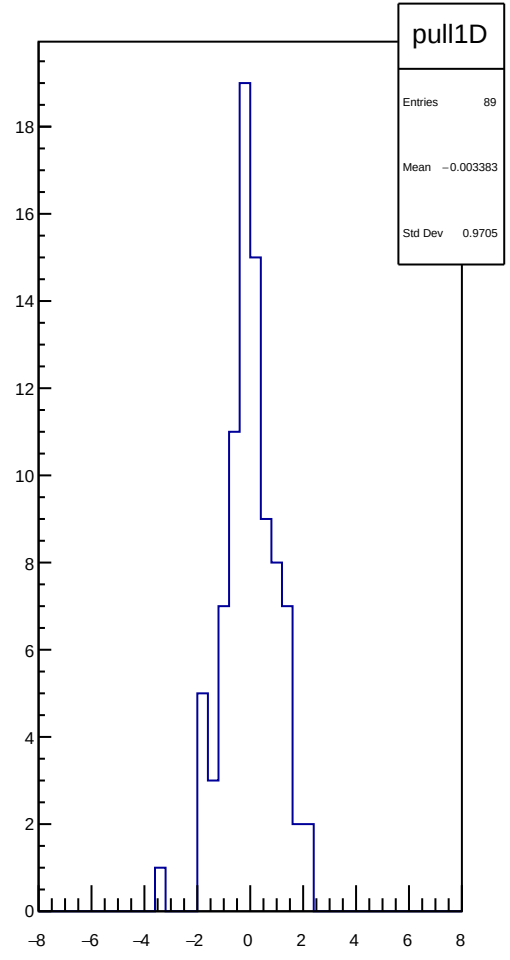

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.434e+05 / 88
p0 3.531e−10 ± 3.938e−13
1.2
1
0.8
0.6
0.4
0.2
0

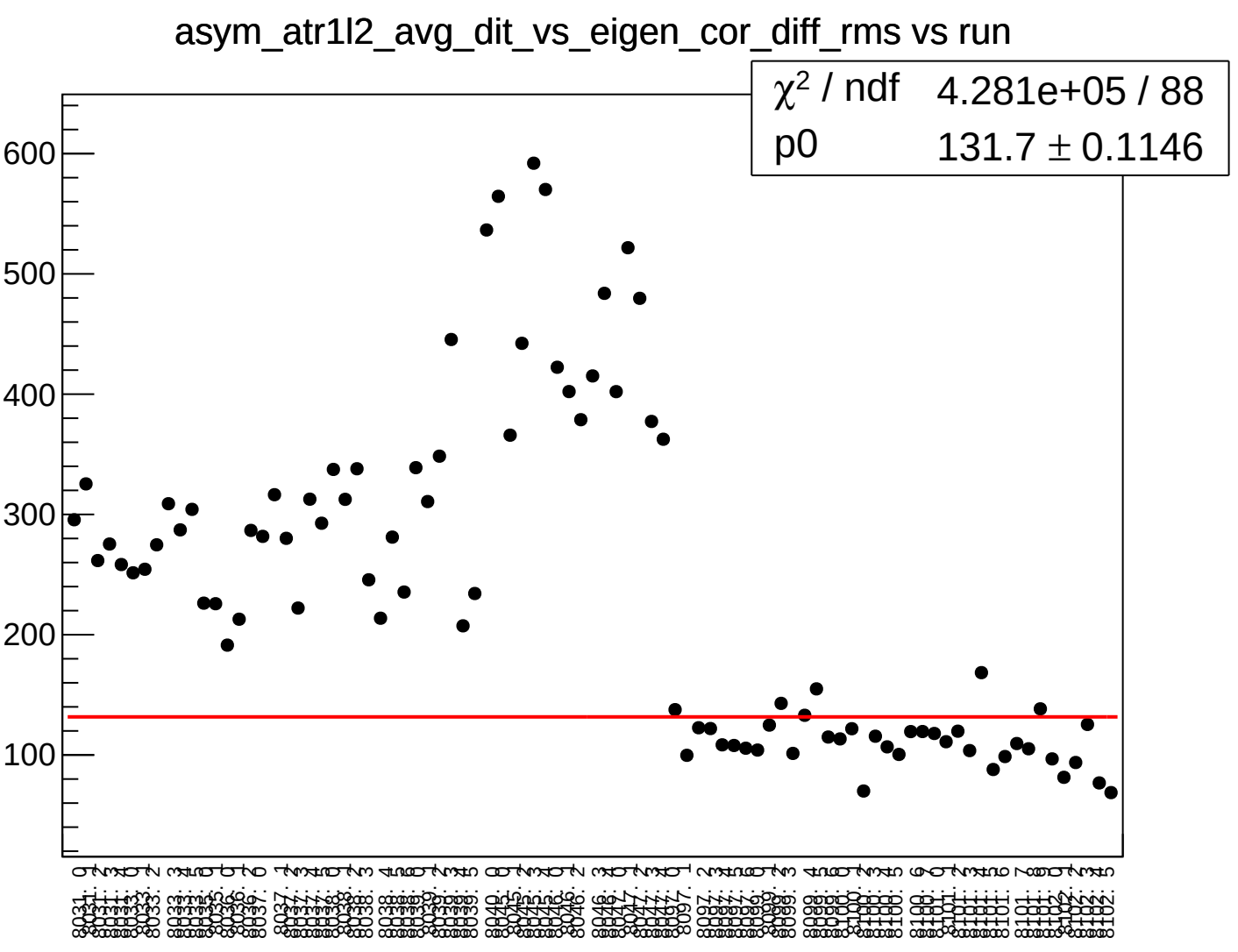

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 83.82 / 88
p0 −0.1819 ± 0.1621
pull
Entries 89
Mean 149.4
Std Dev 0

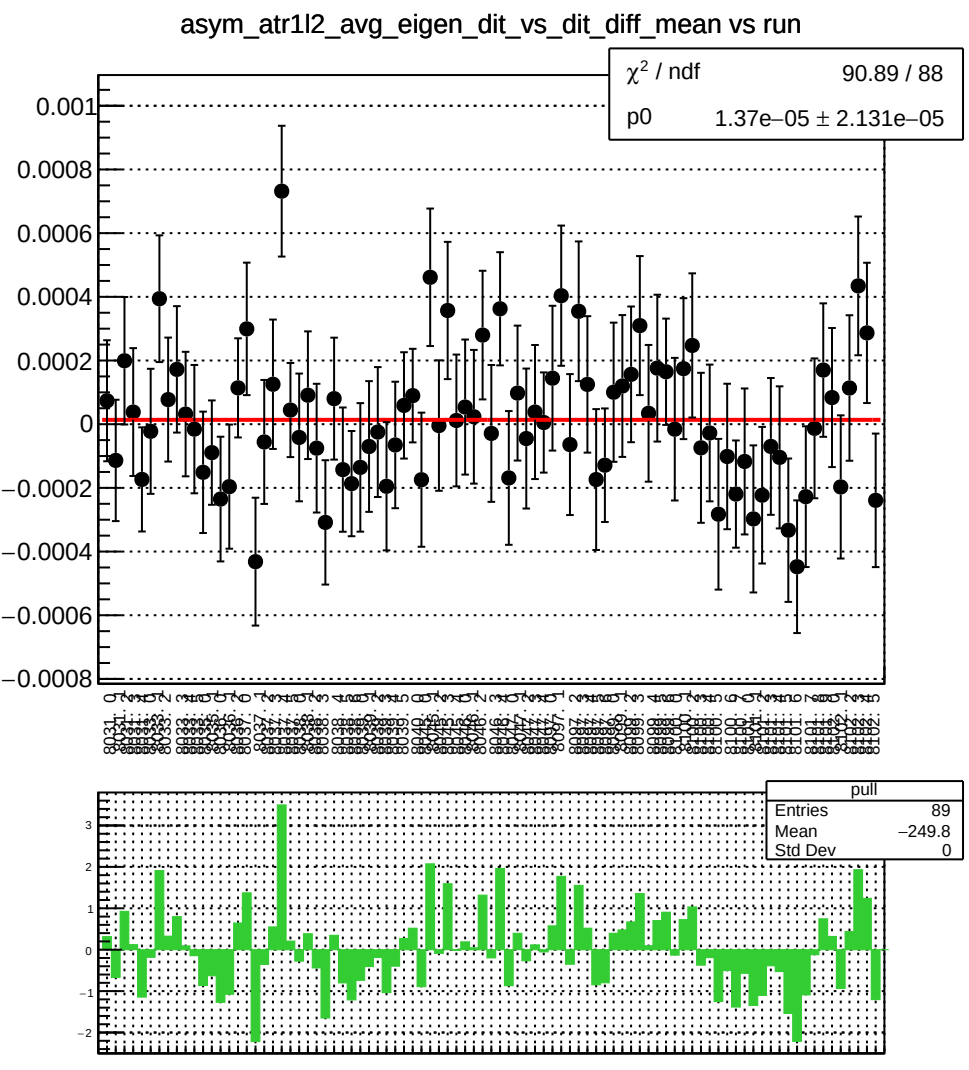

pull1D
Entries 89
Mean −0.003383
Std Dev 0.9705

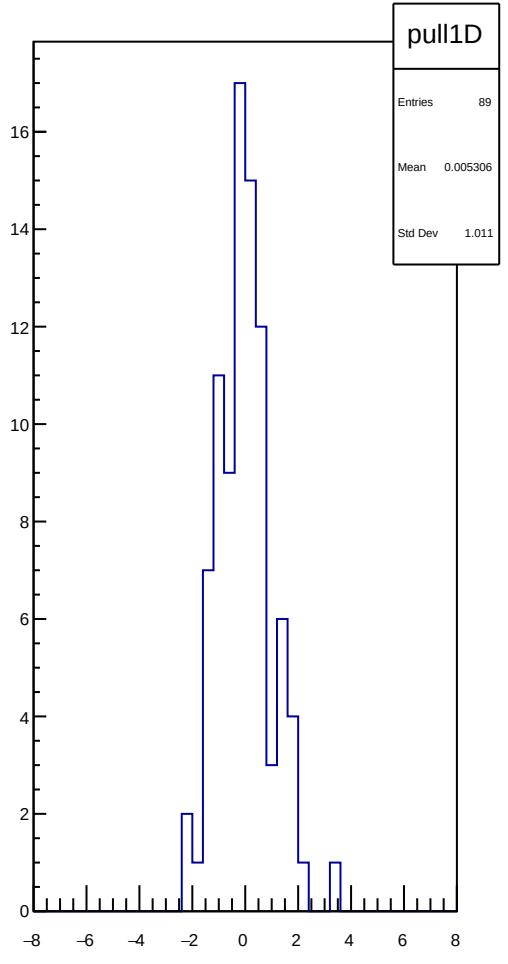

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.281e+05 / 88
p0 131.7 ± 0.1146
600
500
400
300
200
100

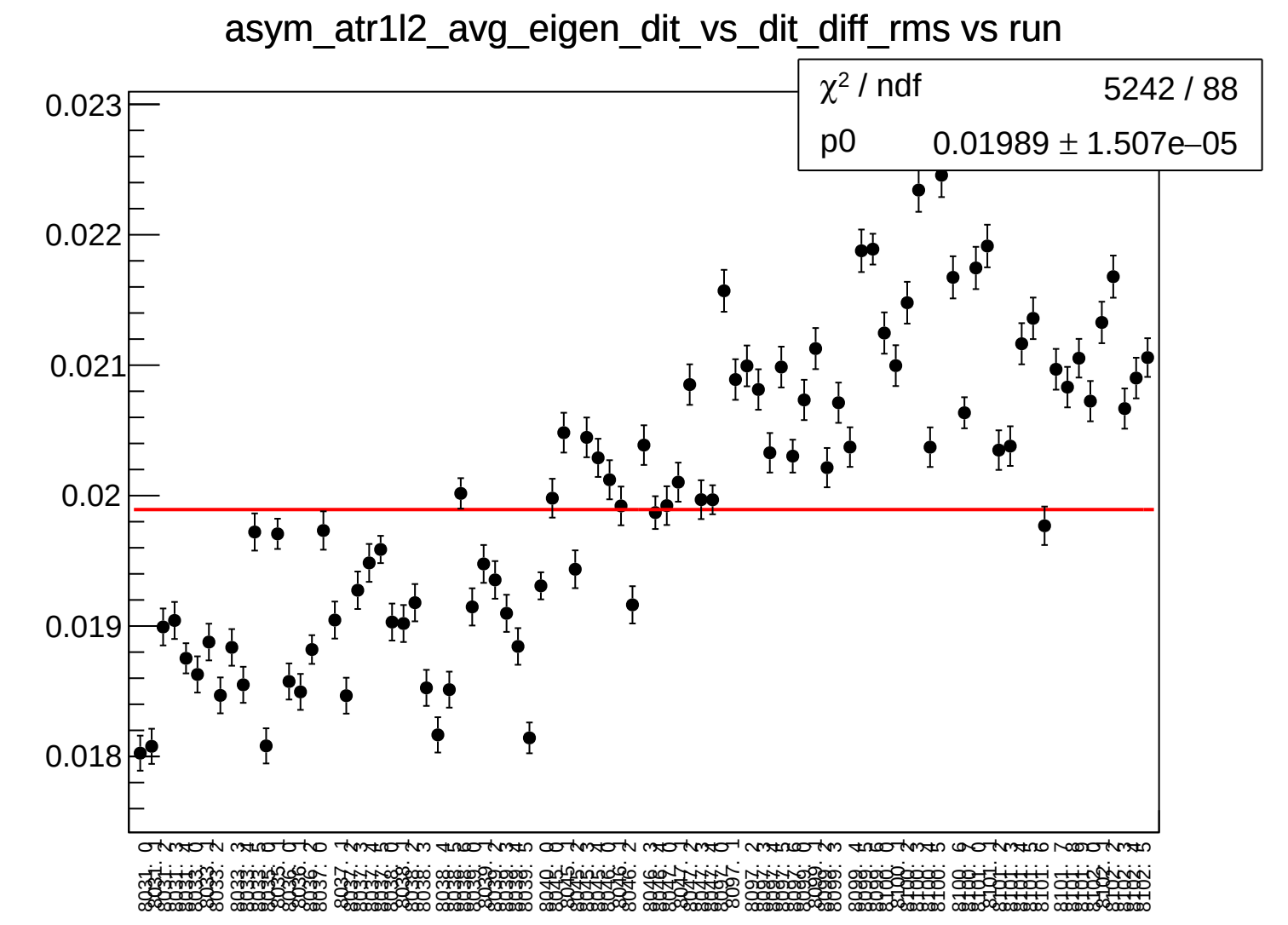

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.82 / 88
p0 −0.1819 ± 0.1621
pull
Entries 89
Mean 149.4
Std Dev 0

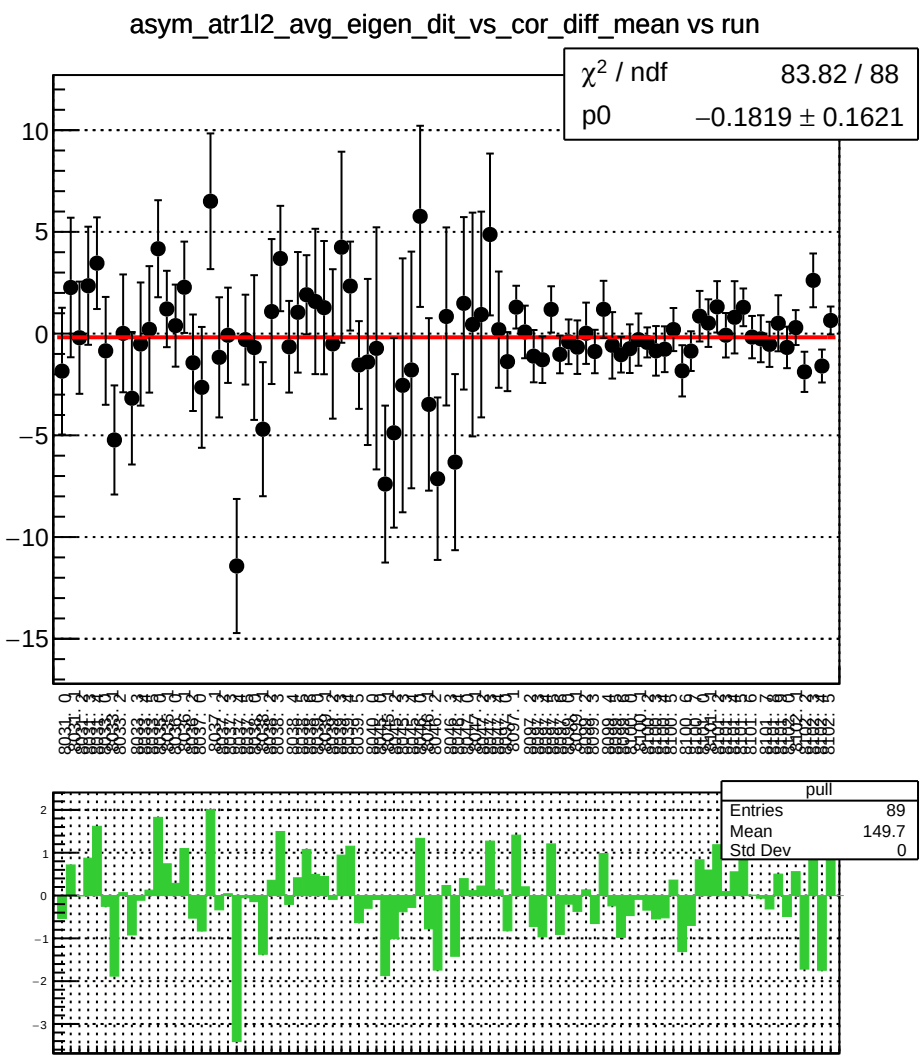

pull1D
Entries 89
Mean −0.003383
Std Dev 0.9705

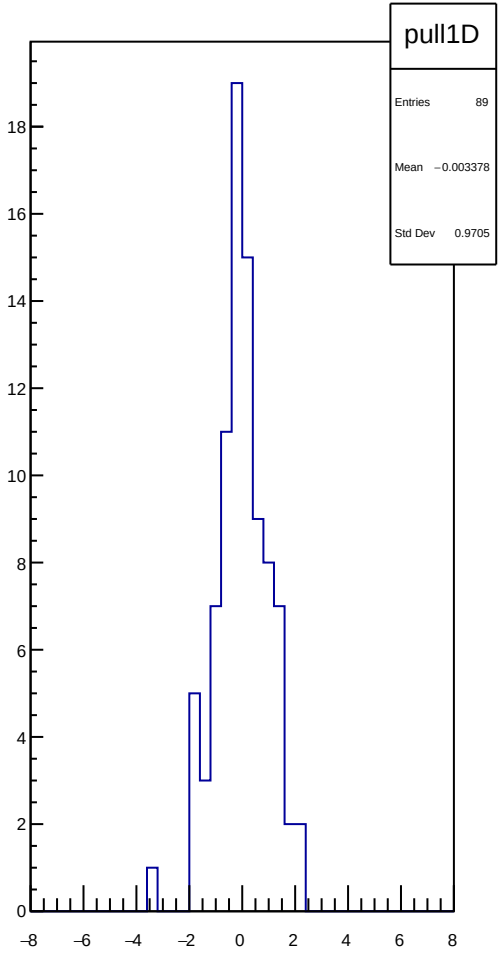

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.281e+05 / 88
p0 131.7 ± 0.1146
600
500
400
300
200
100

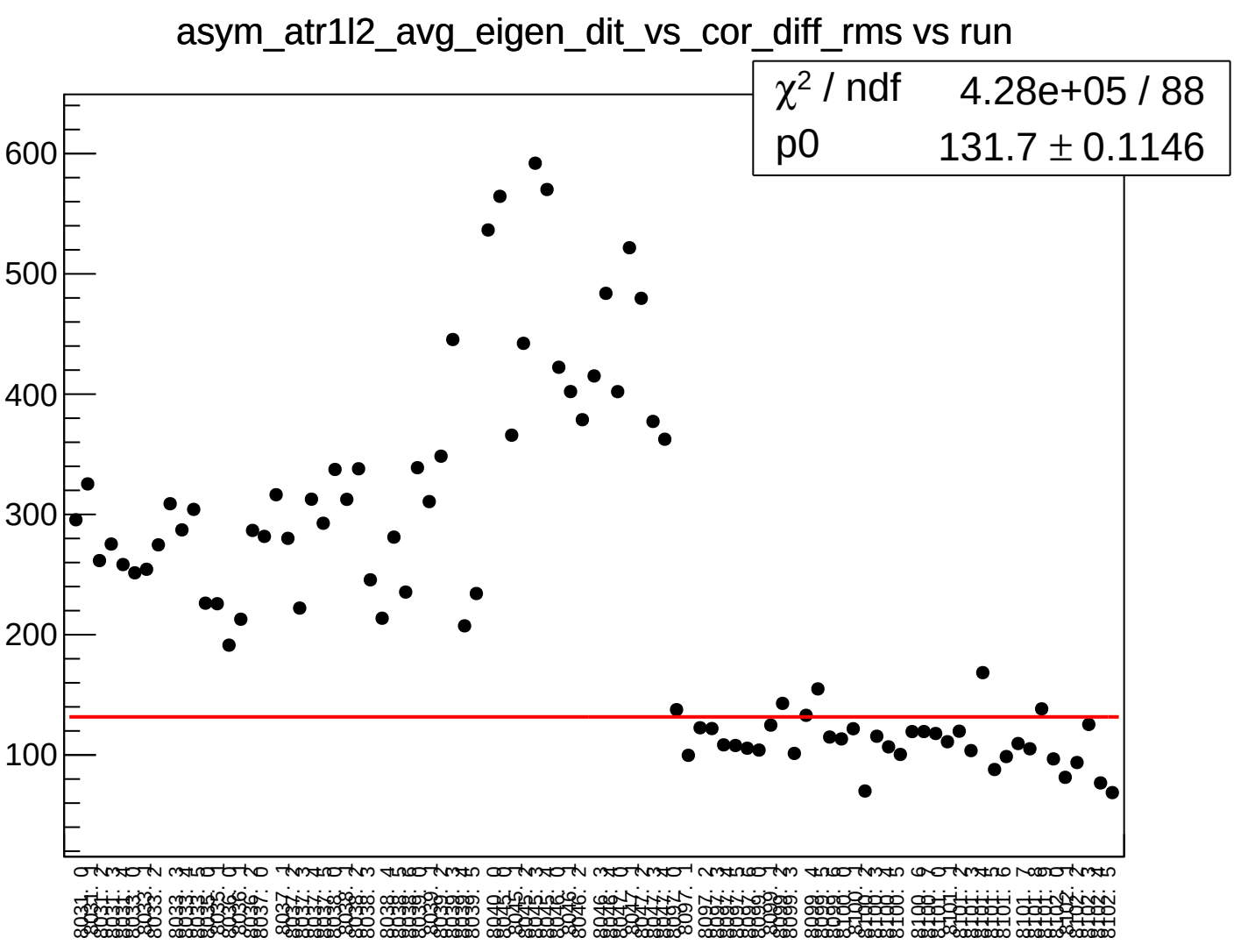

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 90.89 / 88
p0 1.37e−05 ± 2.131e−05
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 89
Mean −249.8
Std Dev 0
3
2
1
0
−1
−2

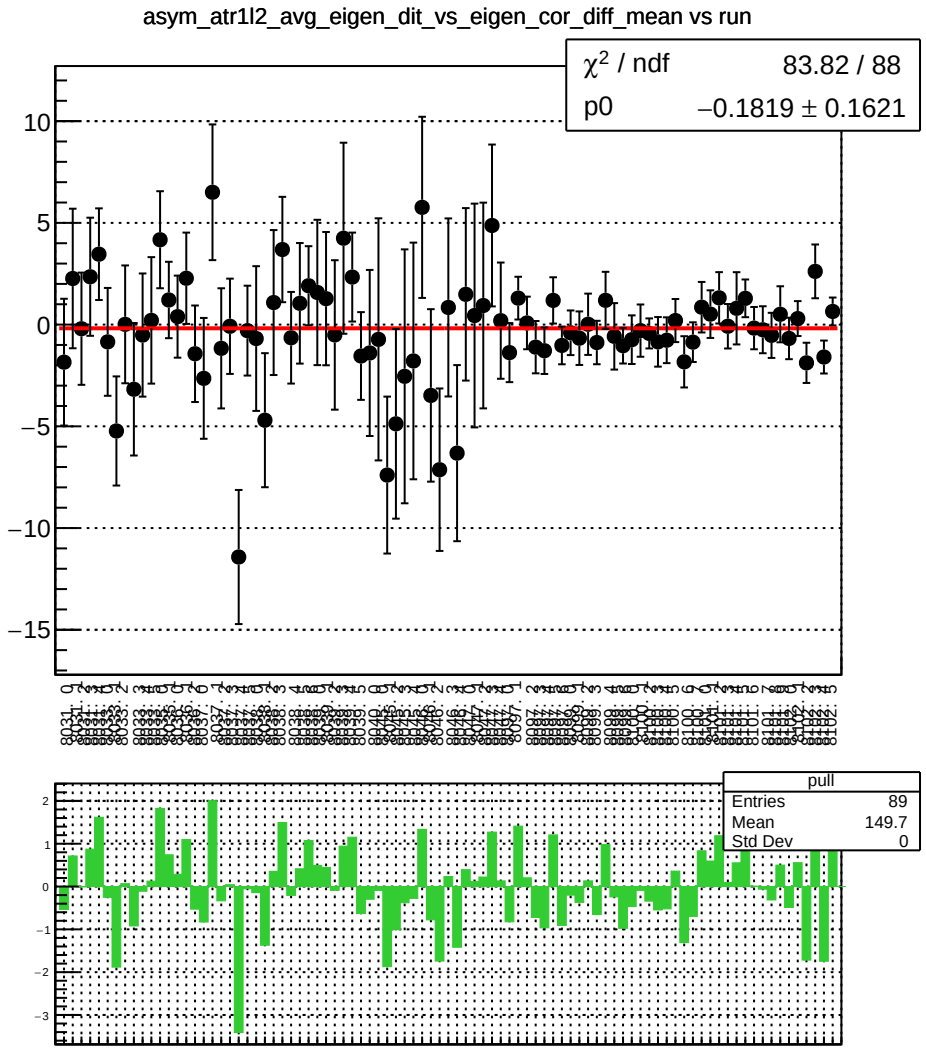

pull1D
Entries 89
Mean 0.005306
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

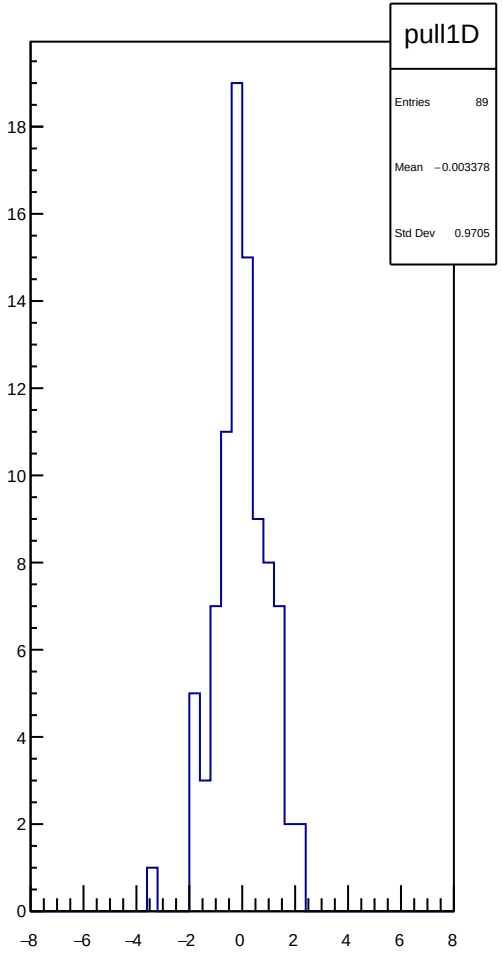

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5242 / 88
p0 0.01989 ± 1.507e–05
0.023
0.022
0.021
0.02
0.019
0.018

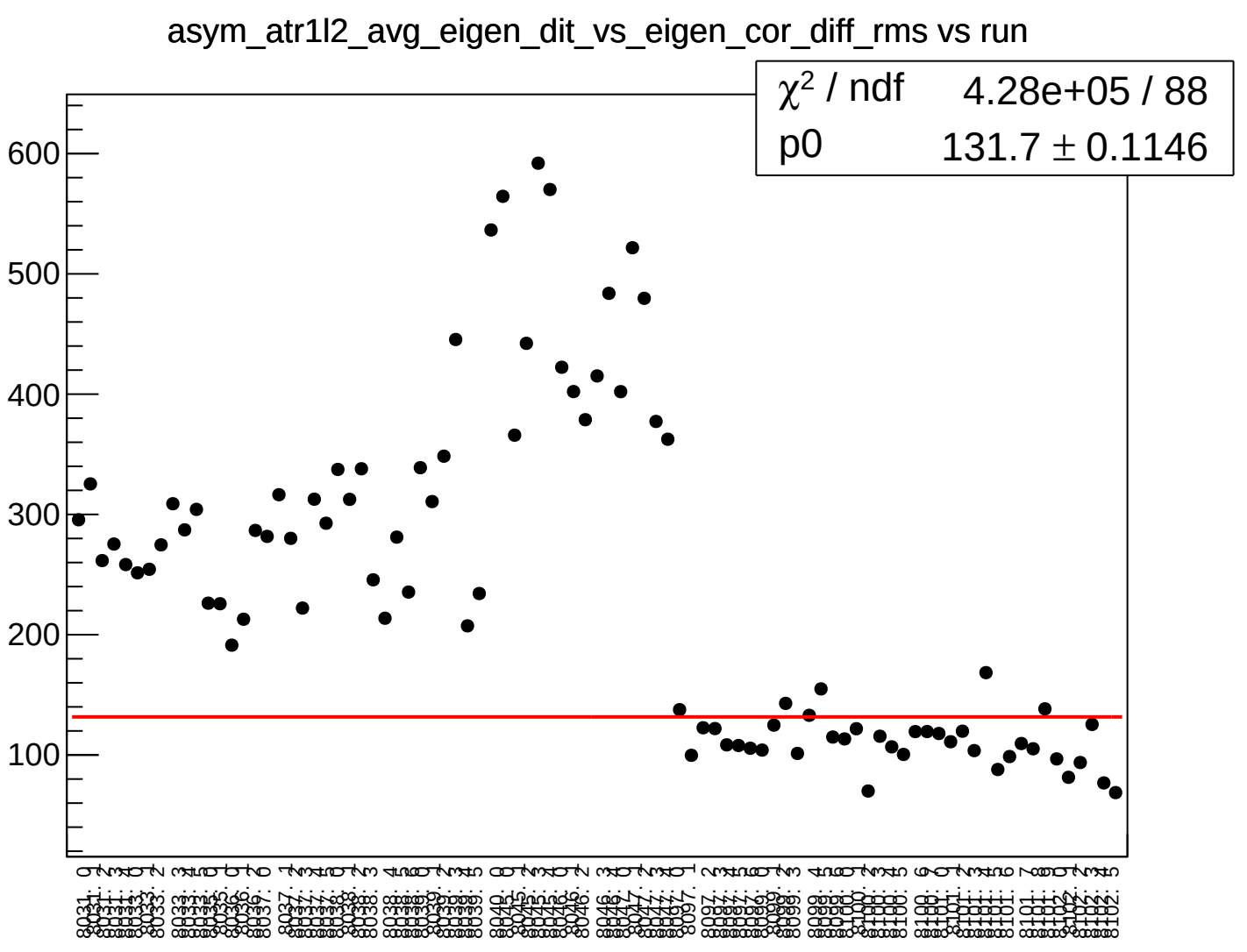

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.82 / 88
p0 −0.1819 ± 0.1621
pull
Entries 89
Mean 149.7
Std Dev 0

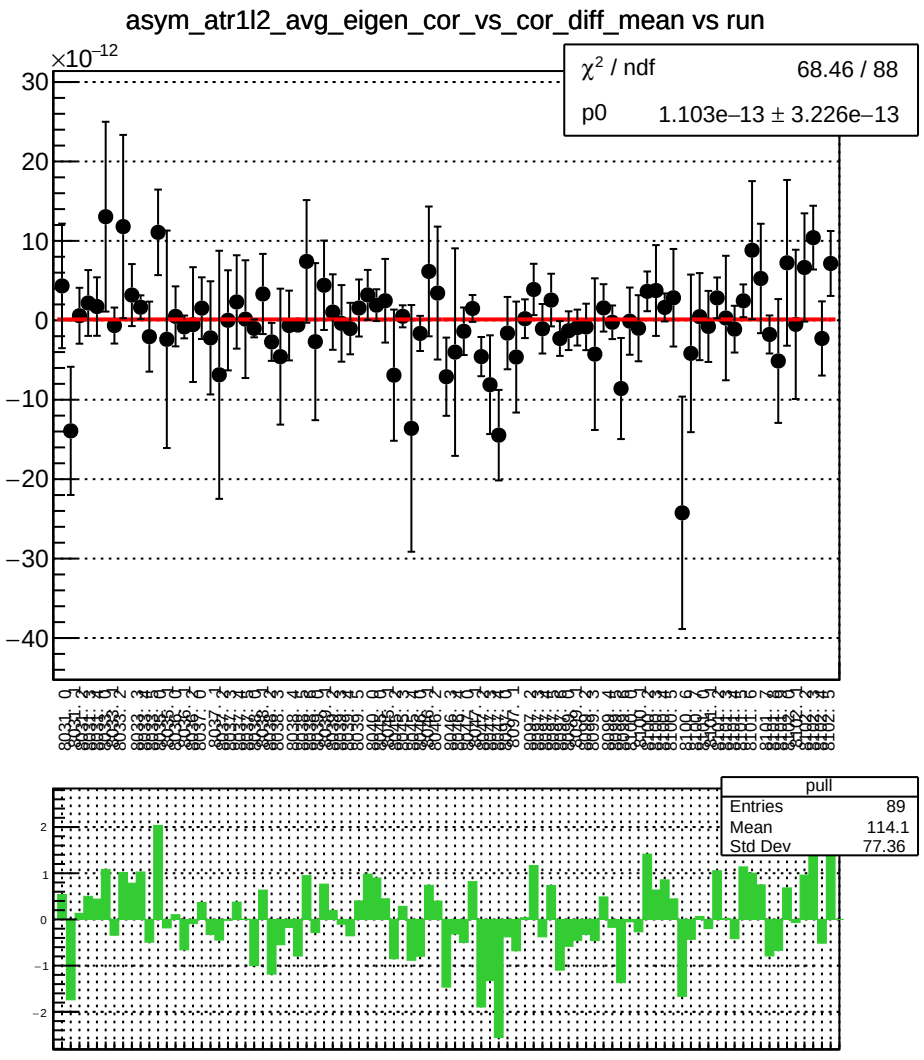

pull1D
Entries 89
Mean −0.003378
Std Dev 0.9705

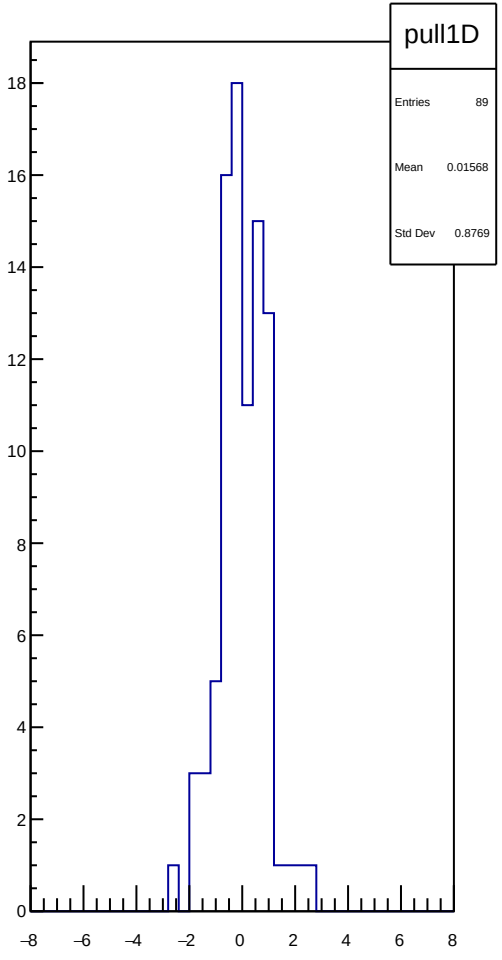

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.28e+05 / 88
p0 131.7 ± 0.1146
600
500
400
300
200
100

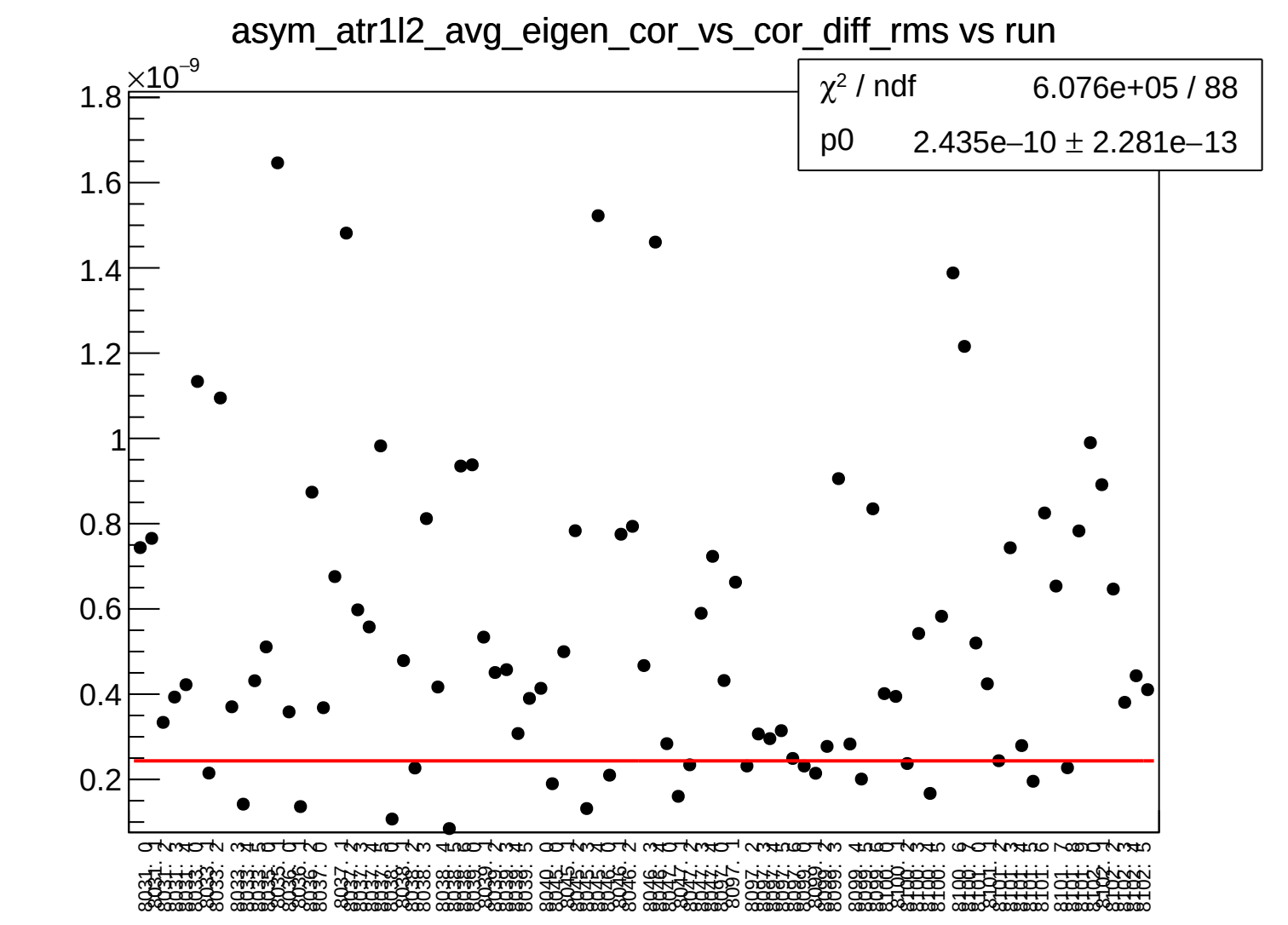

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.82 / 88
p0 −0.1819 ± 0.1621
pull
Entries 89
Mean 149.7
Std Dev 0

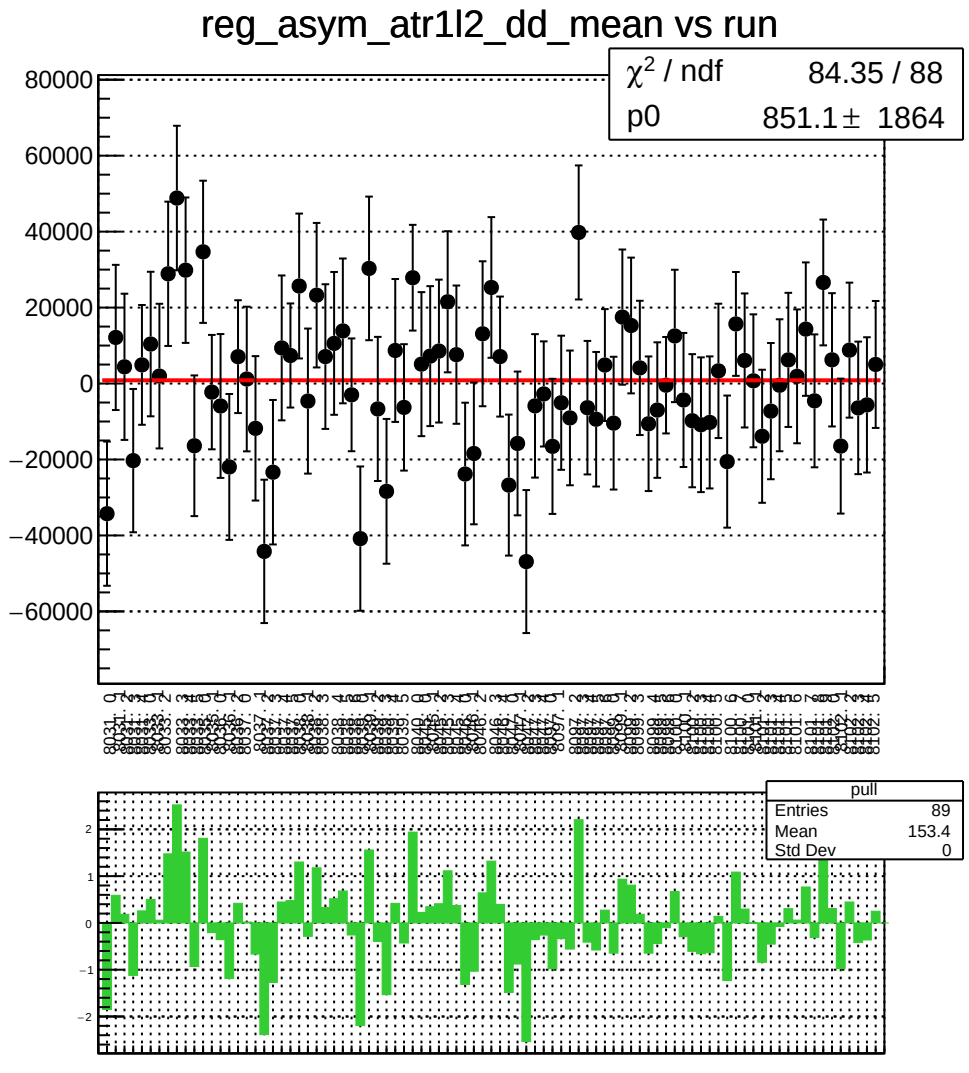

pull1D
Entries 89
Mean −0.003378
Std Dev 0.9705

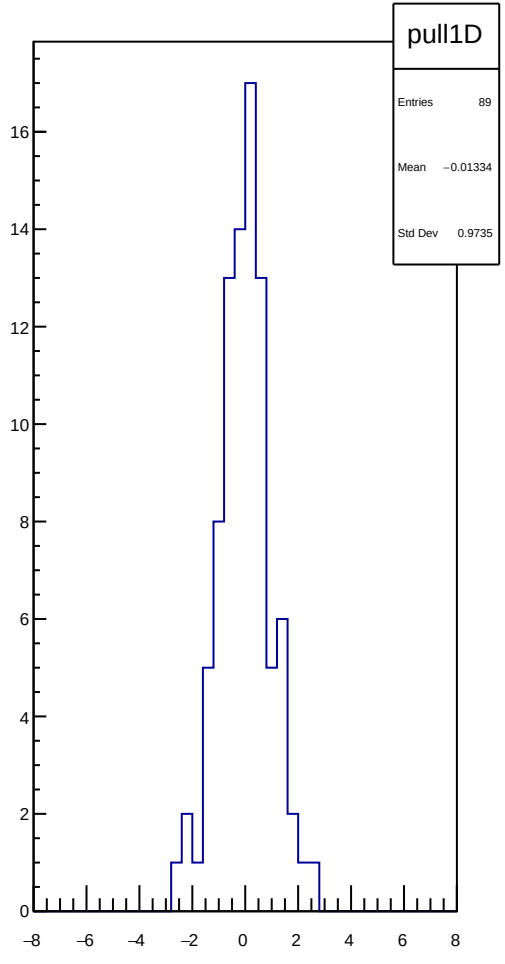

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.28e+05 / 88
p0 131.7 ± 0.1146
600
500
400
300
200
100

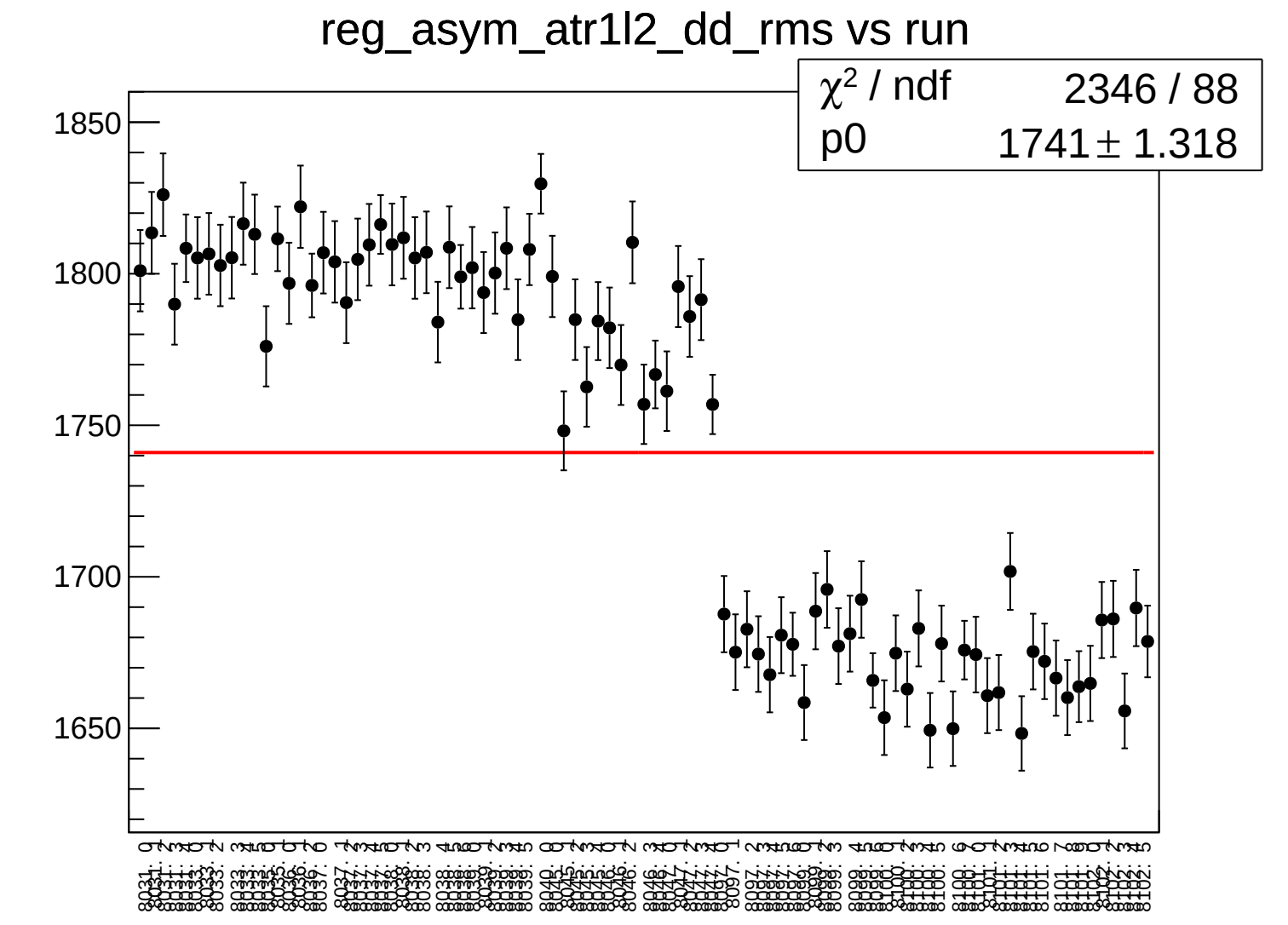

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 68.46 / 88
p0 1.103e−13 ± 3.226e−13
pull
Entries 89
Mean 114.1
Std Dev 77.36

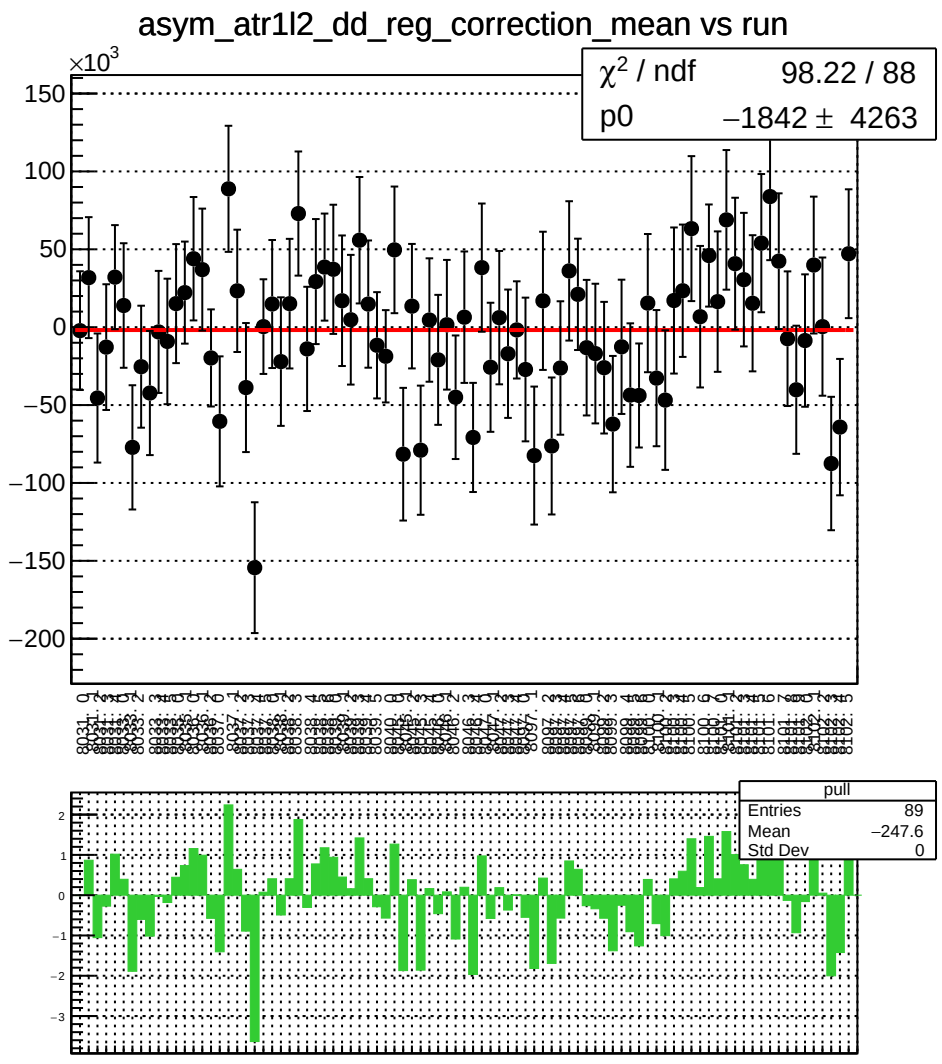

pull1D
Entries 89
Mean 0.01568
Std Dev 0.8769

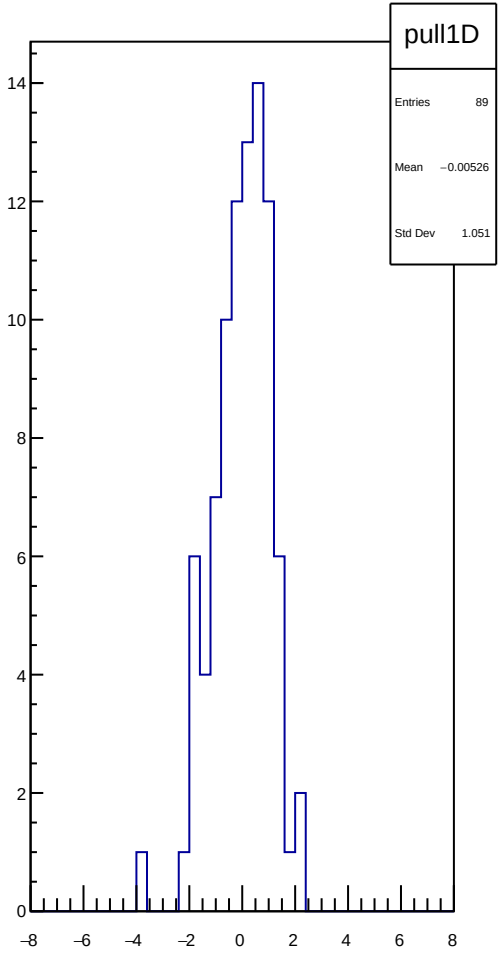

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.076e+05 / 88
p0 2.435e−10 ± 2.281e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

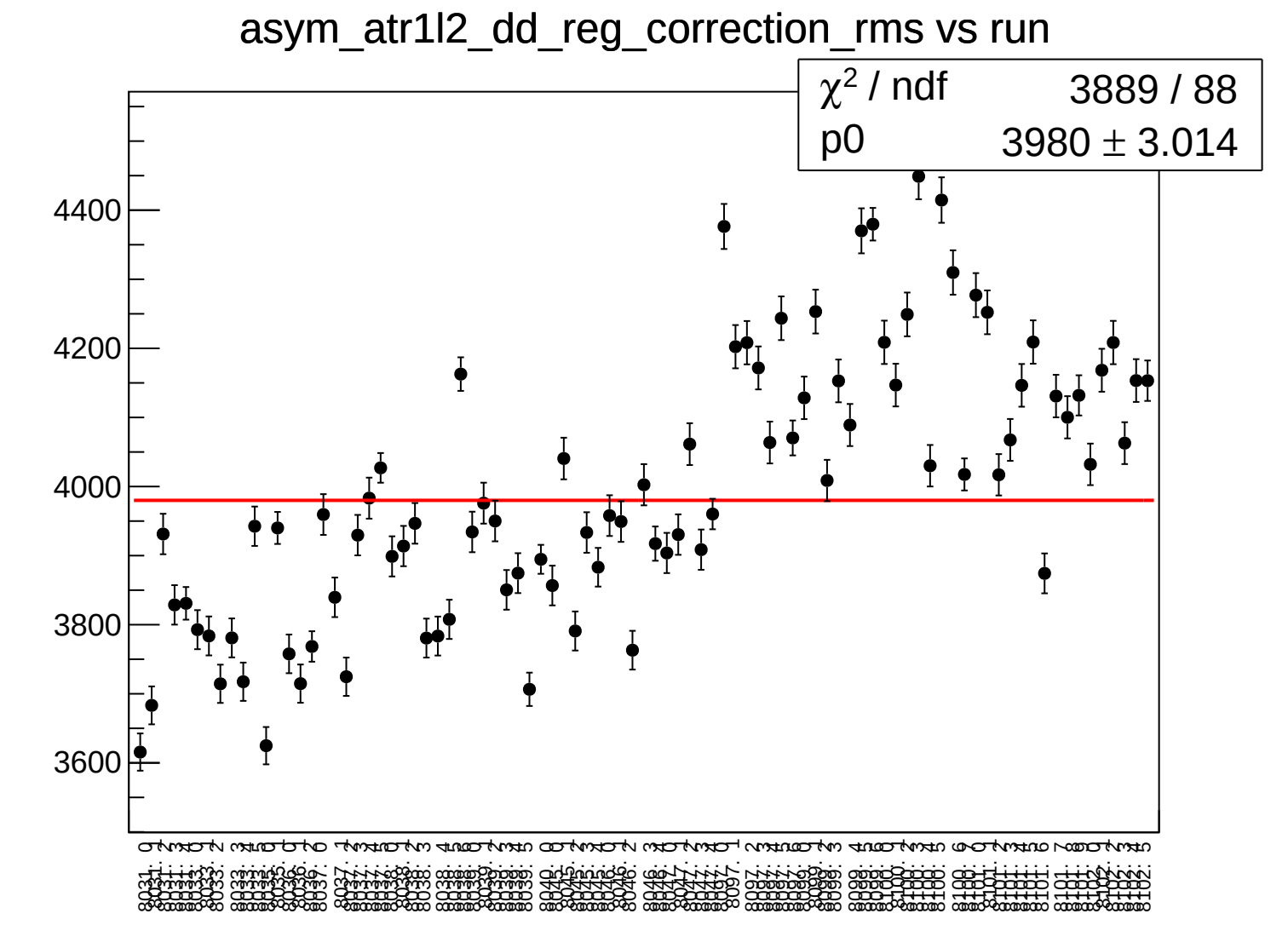

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 84.35 / 88
p0 851.1 ± 1864
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 153.4
Std Dev 0
2
1
0
−1
−2

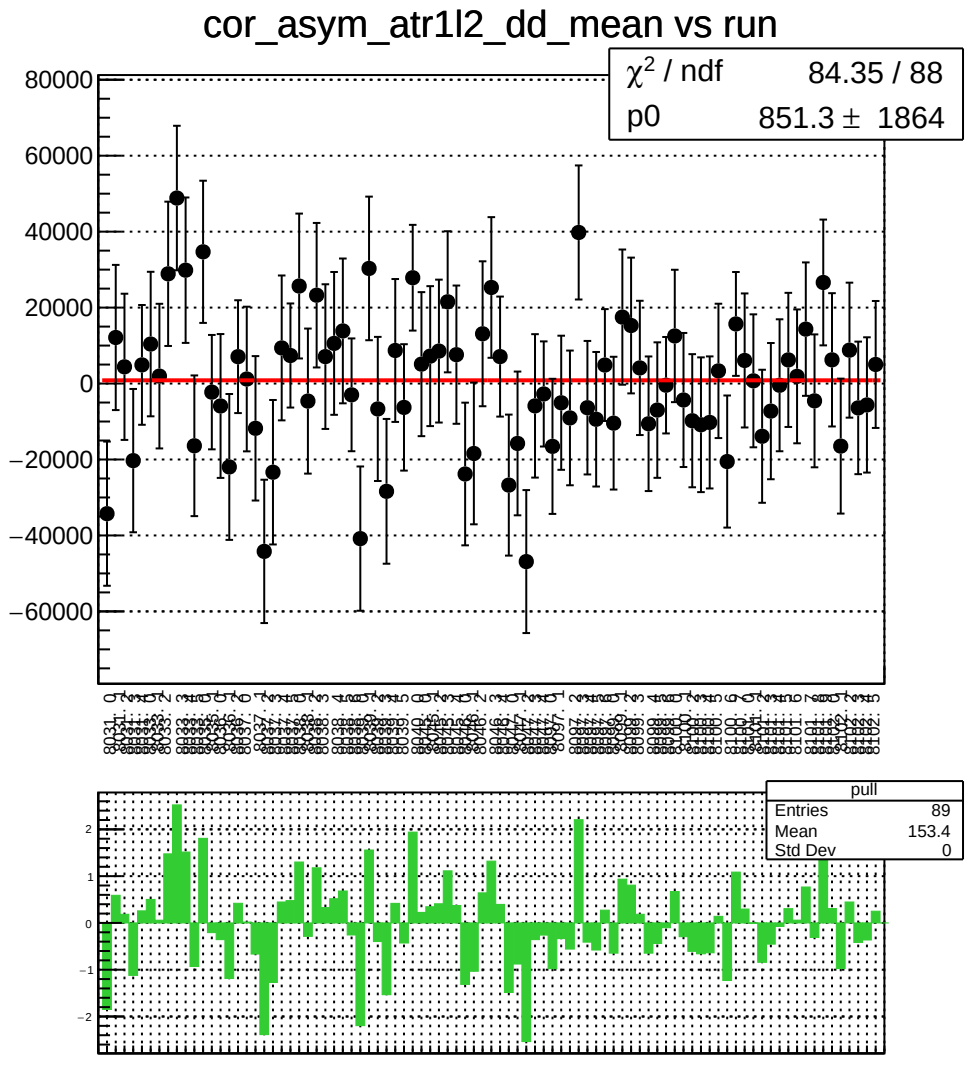

pull1D
Entries 89
Mean −0.01334
Std Dev 0.9735
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

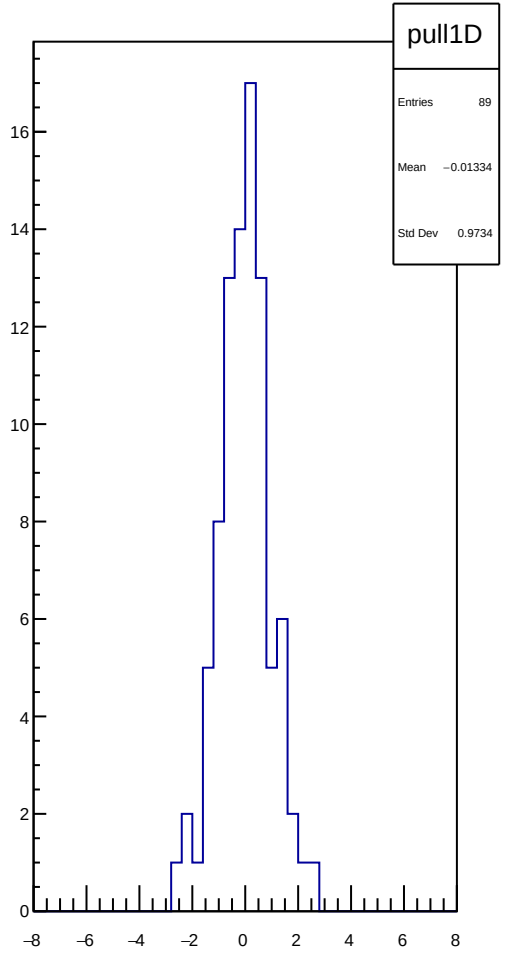

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 2346 / 88
p0 1741 ± 1.318
1850
1800
1750
1700
1650

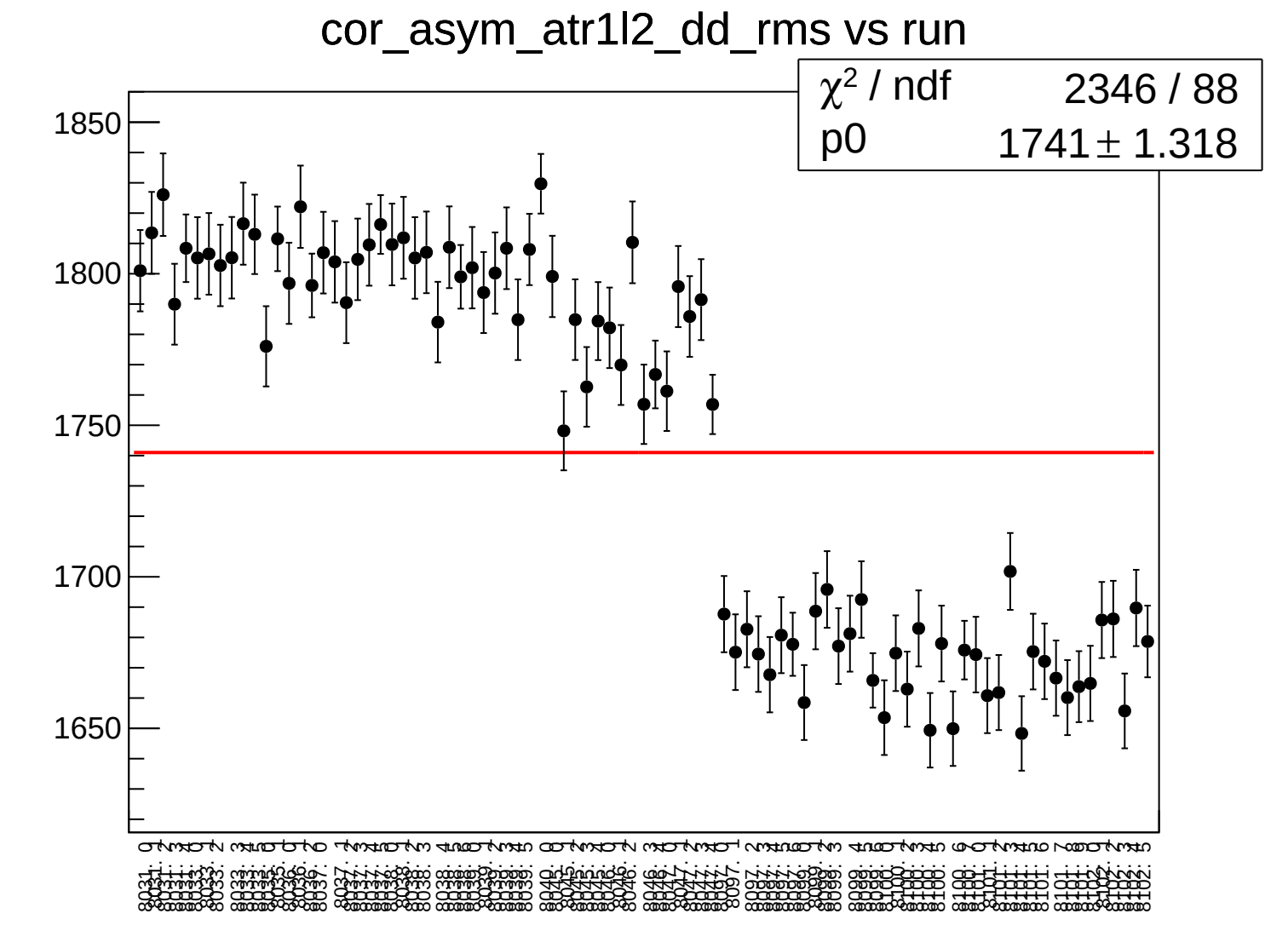

asym_atr1l2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 98.22 / 88
p0 −1842 ± 4263
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean −247.6
Std Dev 0
2
1
0
−1
−2
−3

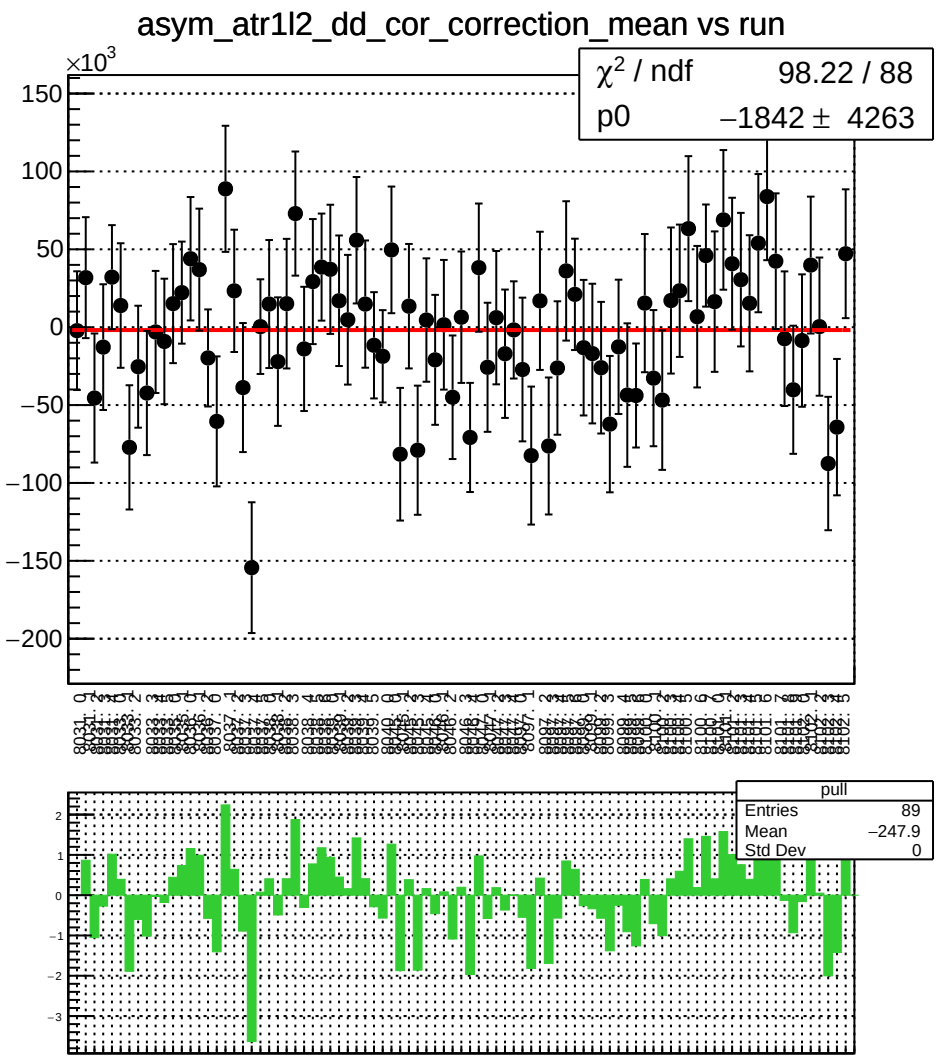

pull1D
Entries 89
Mean −0.00526
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

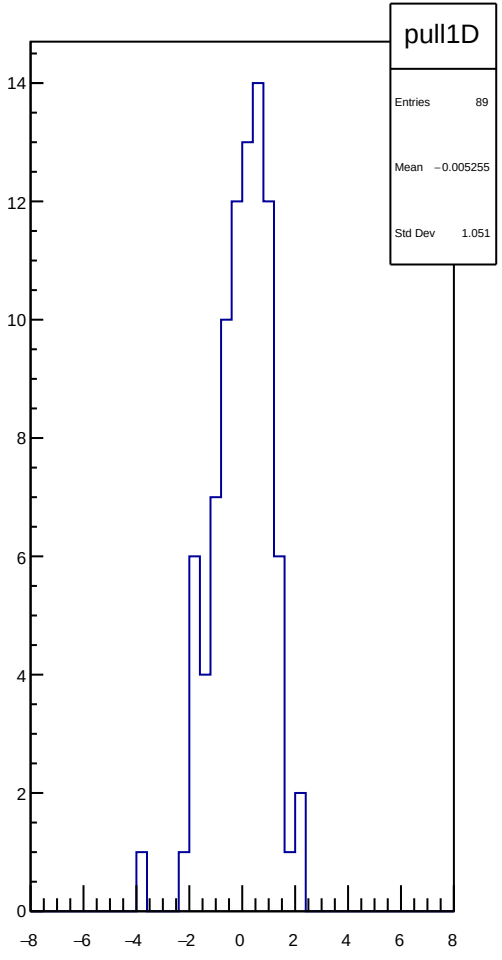

asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 3889 / 88
p0 3980 ± 3.014
4400
4200
4000
3800
3600

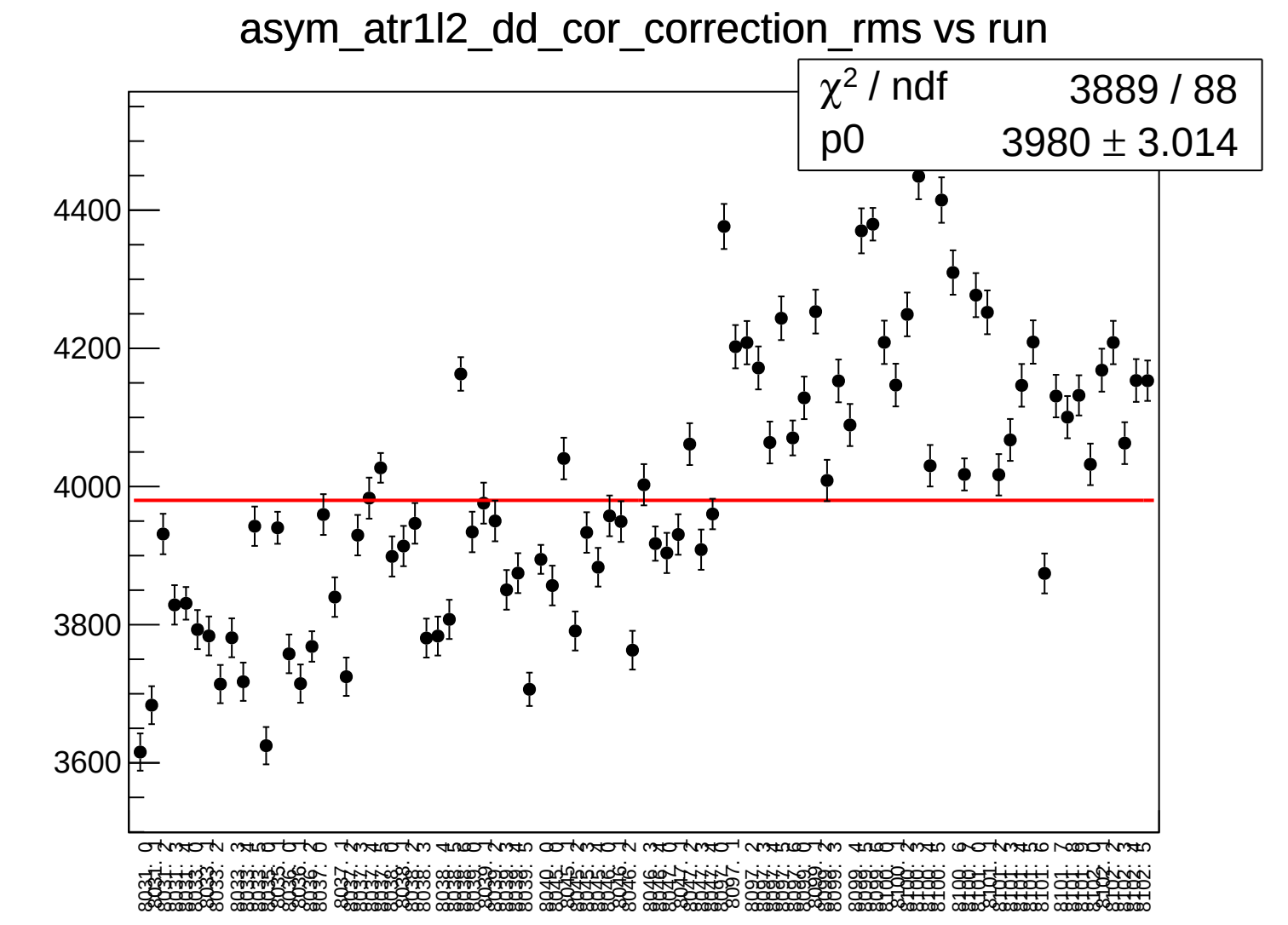

cor_asym_atr1l2_dd_mean vs run
χ² / ndf 84.35 / 88
p0 851.3 ± 1864
pull
Entries 89
Mean 153.4
Std Dev 0

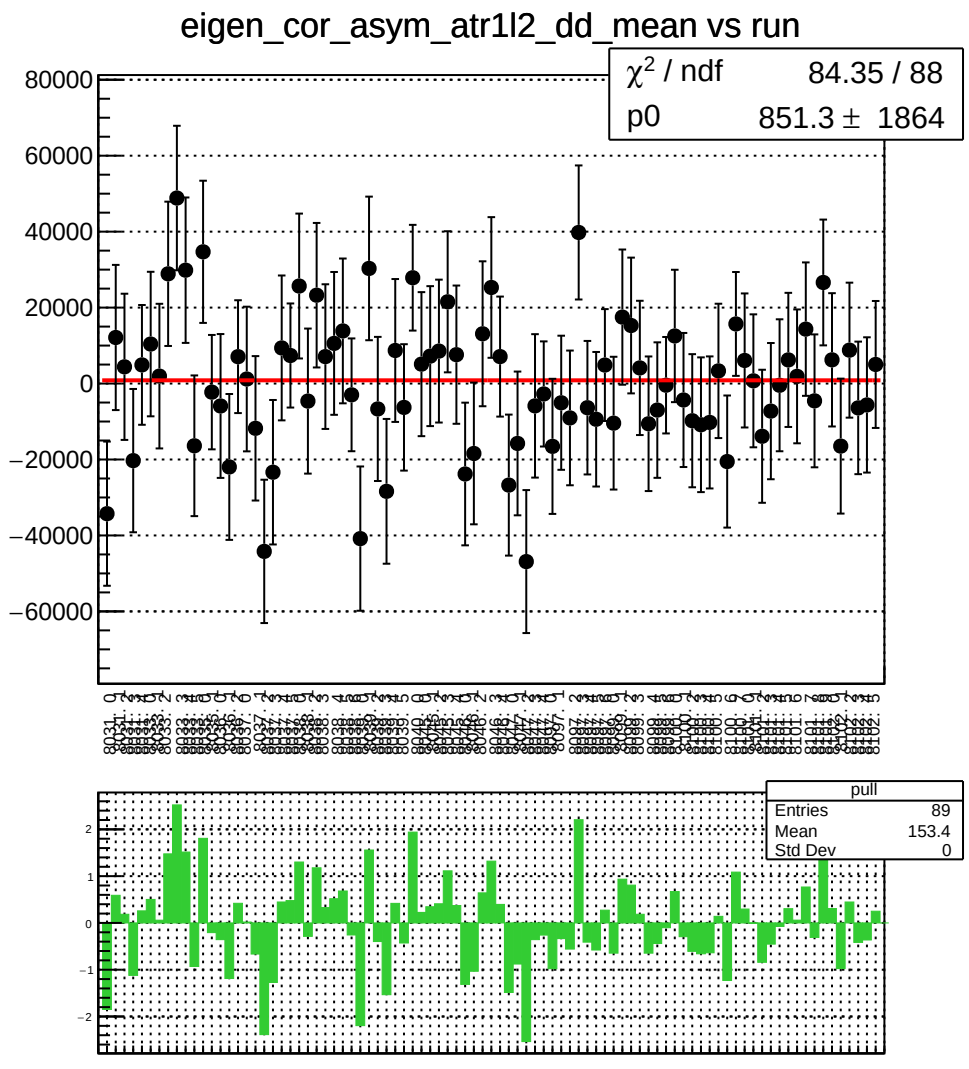

pull1D
Entries 89
Mean −0.01334
Std Dev 0.9734

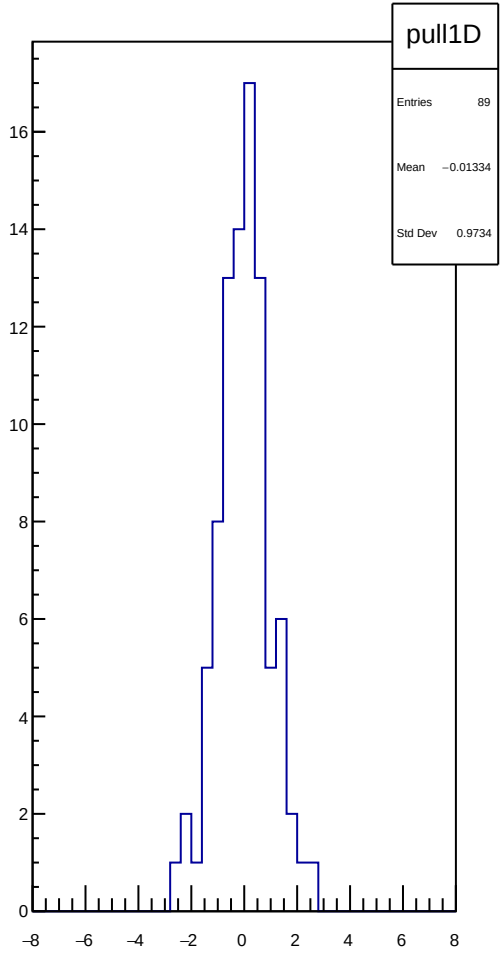

cor_asym_atr1l2_dd_rms vs run
χ² / ndf 2346 / 88
p0 1741 ± 1.318
1850
1800
1750
1700
1650


asym_atr1l2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 98.22 / 88
p0 −1842 ± 4263
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean −247.9
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 89
Mean −0.005255
Std Dev 1.051
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 3889 / 88
p0 3980 ± 3.014
4400
4200
4000
3800
3600


eigen_cor_asym_atr1l2_dd_mean vs run
χ² / ndf 84.35 / 88
p0 851.3 ± 1864
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 153.4
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 89
Mean −0.01334
Std Dev 0.9734
16
14
12
10
8
6
4
2
0
−8
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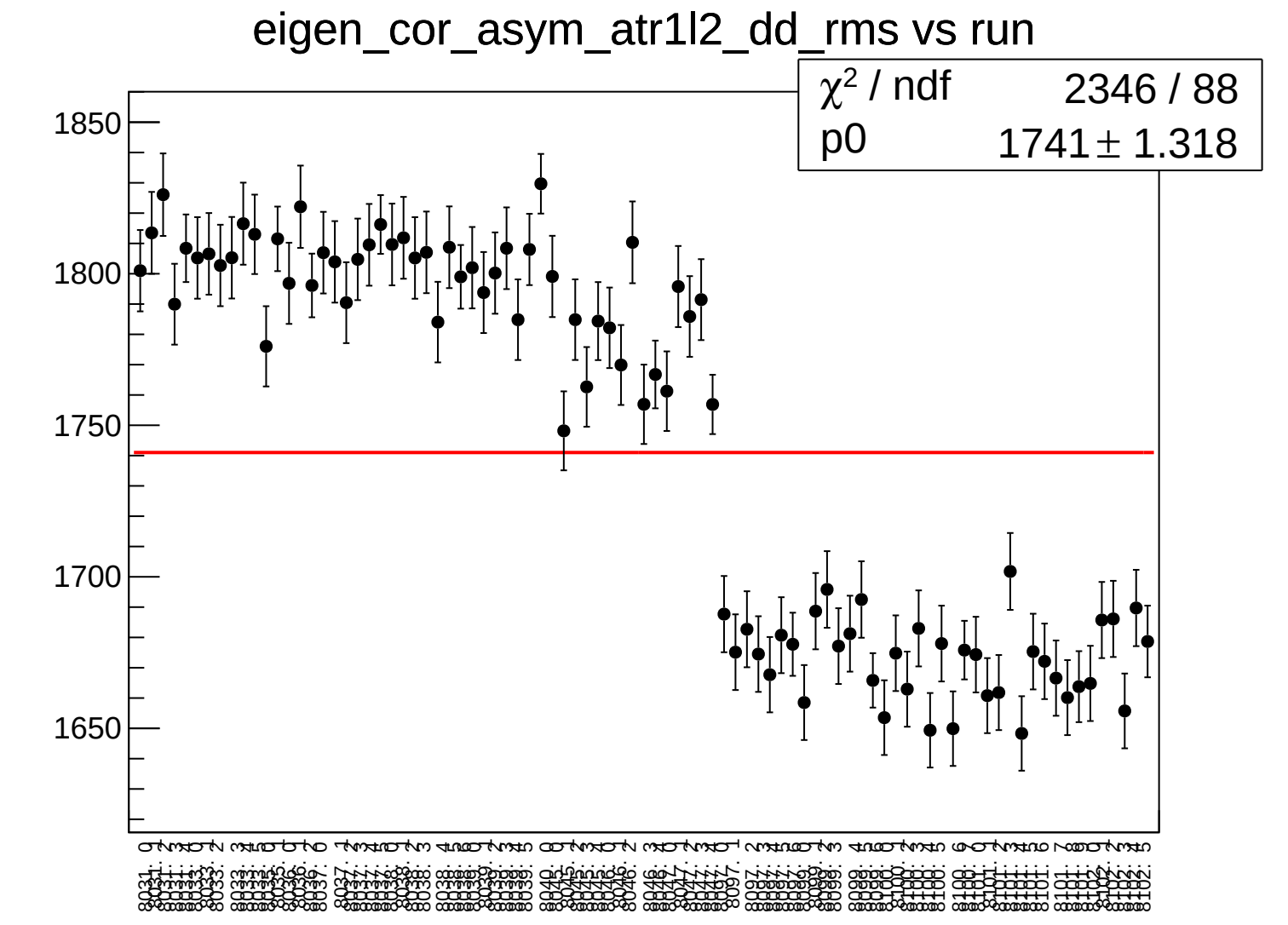
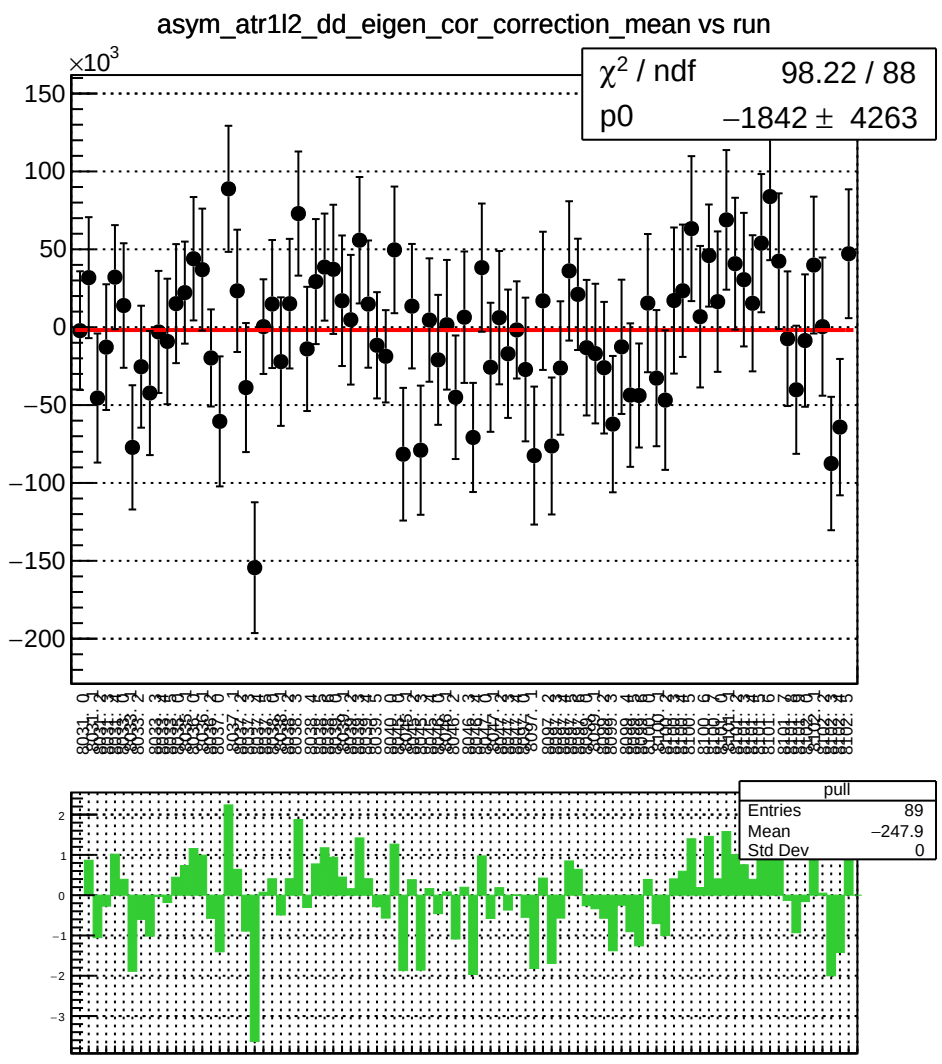
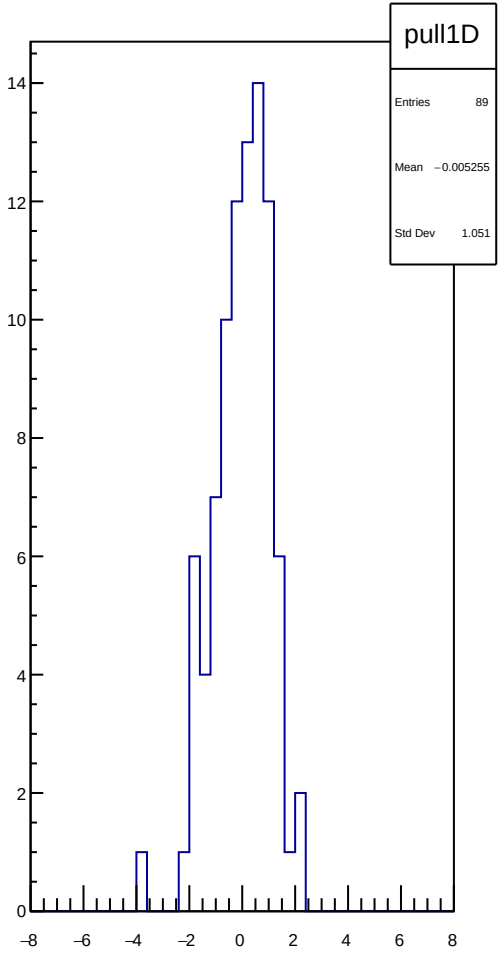
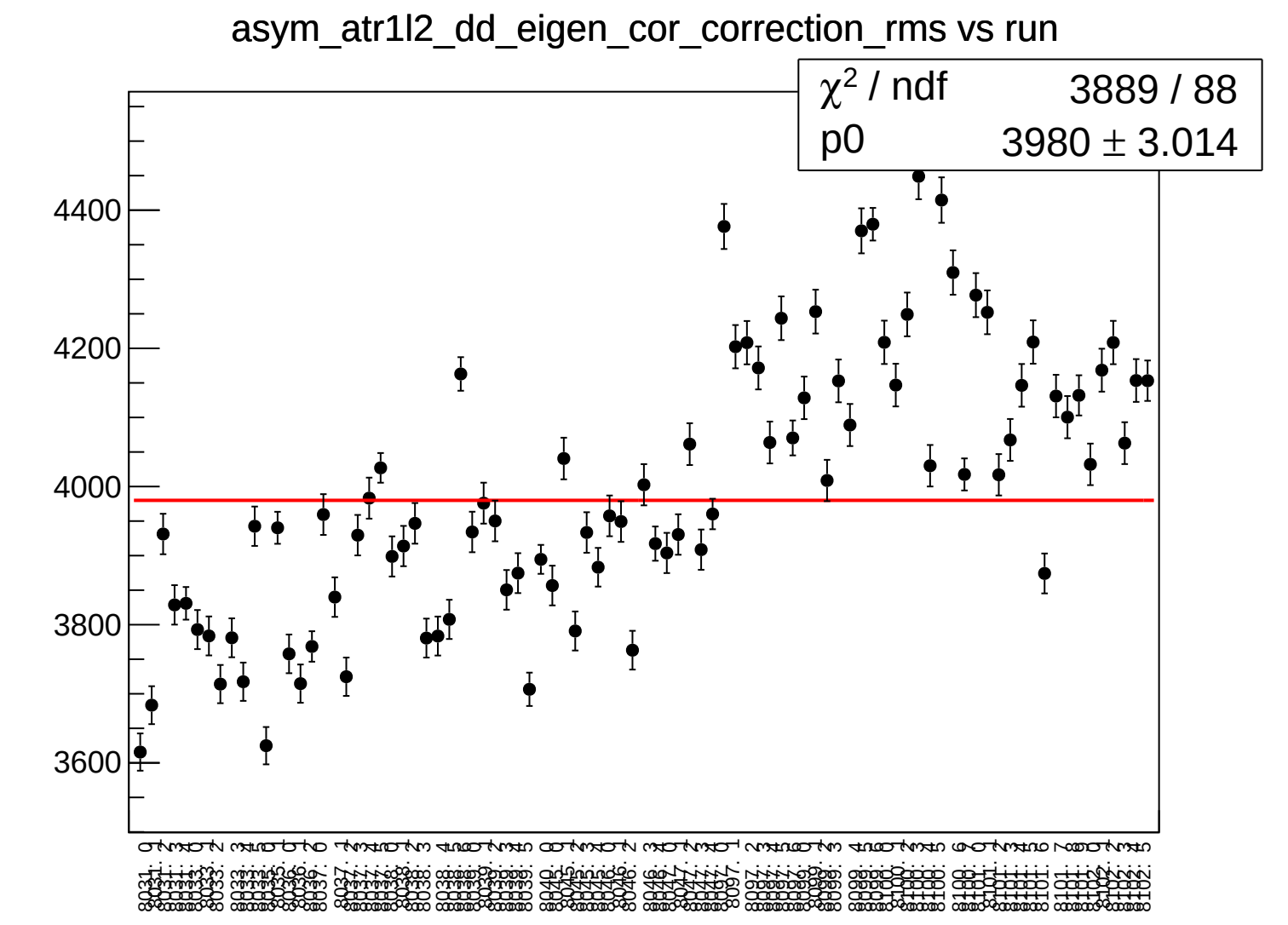
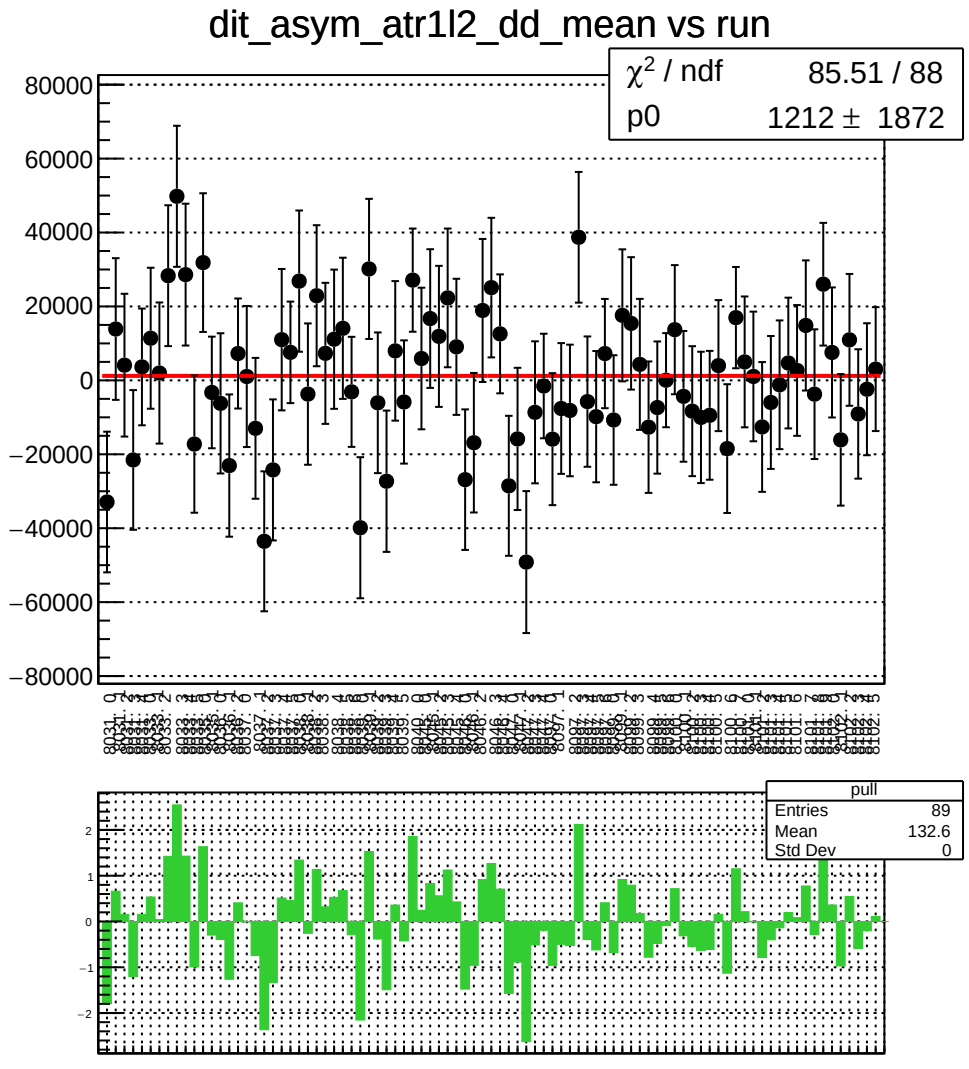
−4
−2
0
2
4
6
8

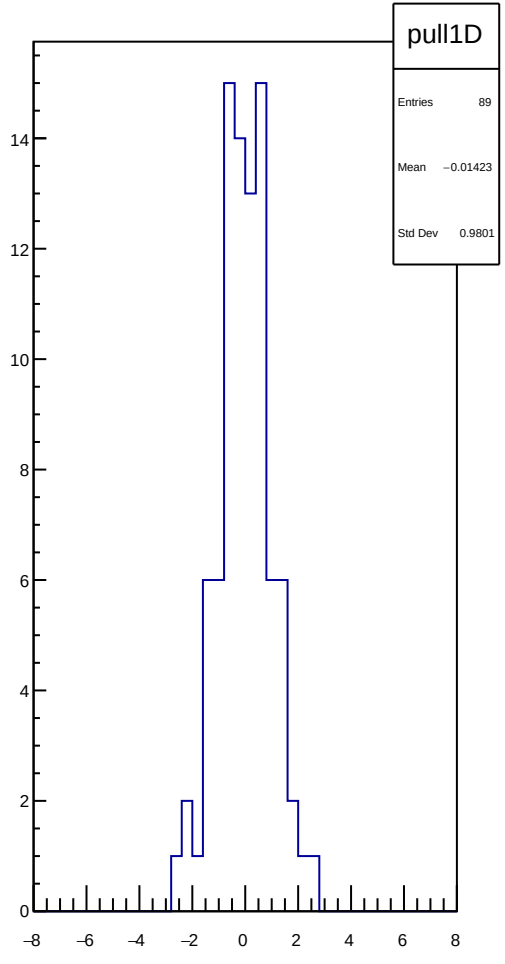

eigen_cor_asym_atr1l2_dd_rms vs run
$\chi^2$ / ndf 2346 / 88
p0 1741 ± 1.318
1850
1800
1750
1700
1650

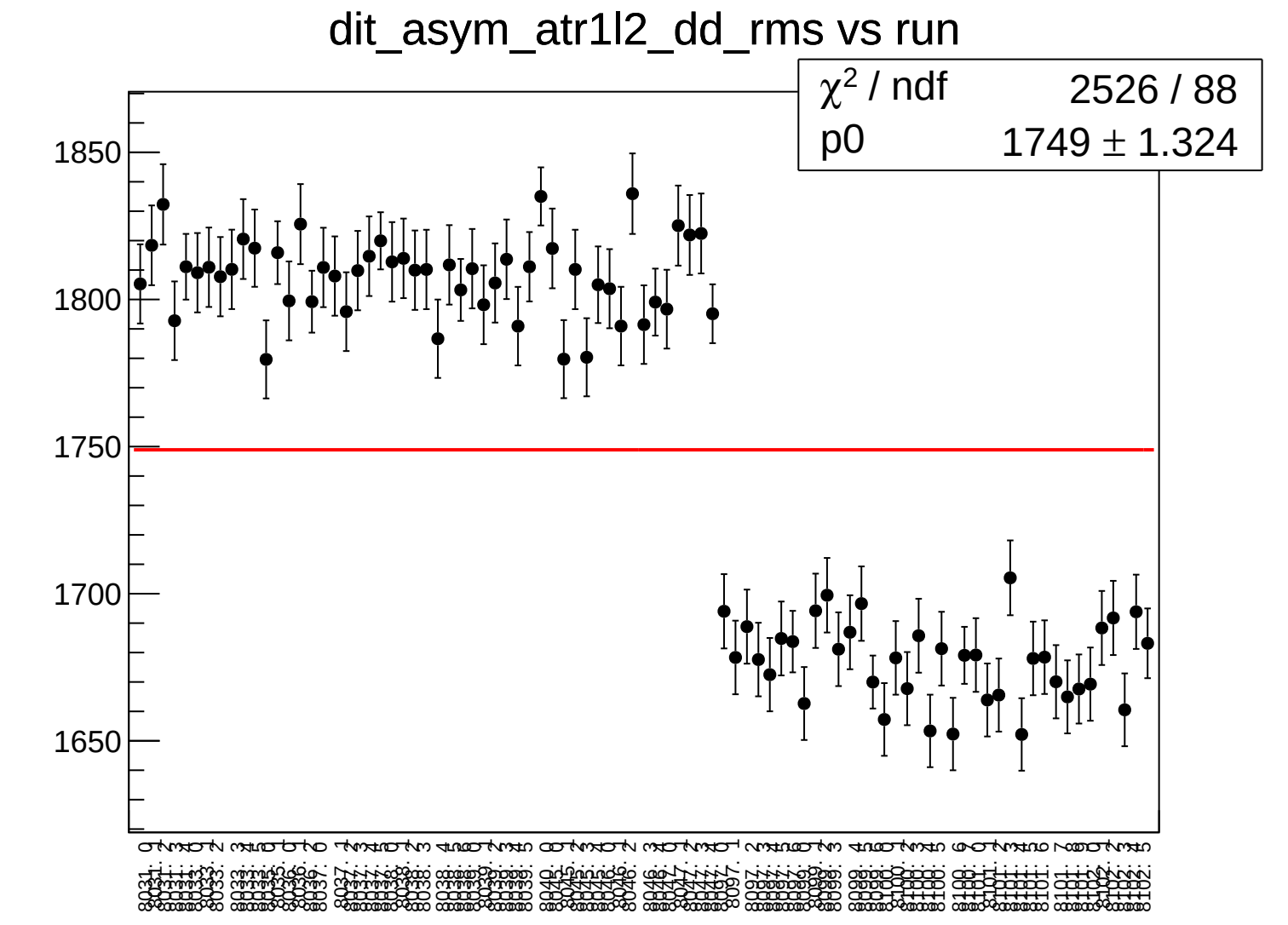

asym_atr1l2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 98.22 / 88
p0 −1842 ± 4263
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean −247.9
Std Dev 0
2
1
0
−1
−2
−3

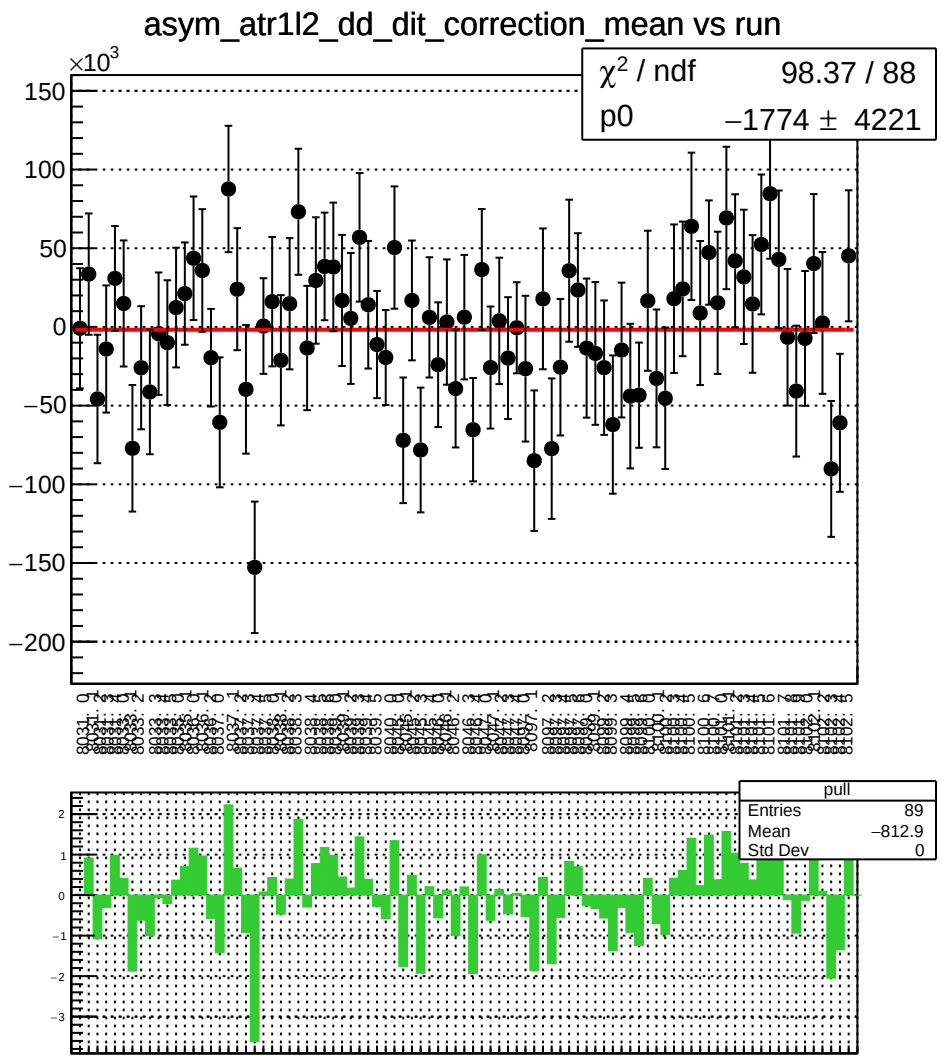

pull1D
Entries 89
Mean −0.005255
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

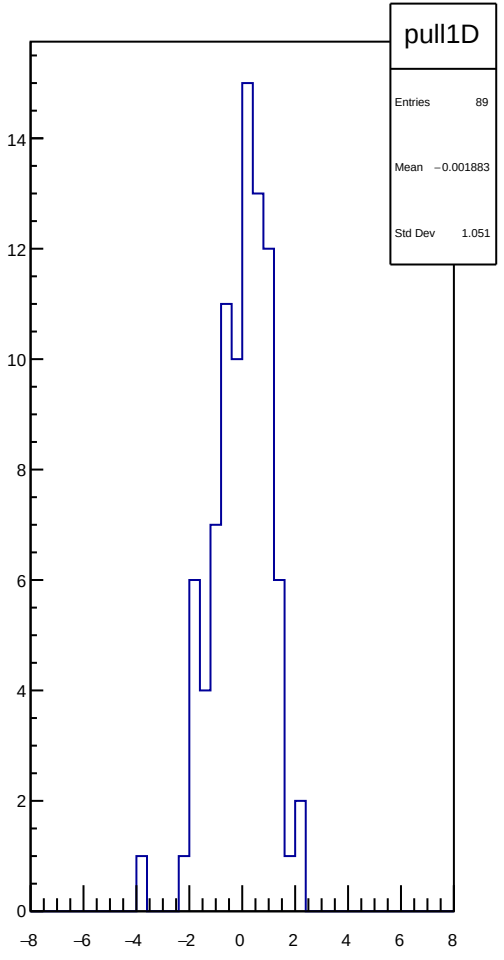

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 3889 / 88
p0 3980 ± 3.014
4400
4200
4000
3800
3600

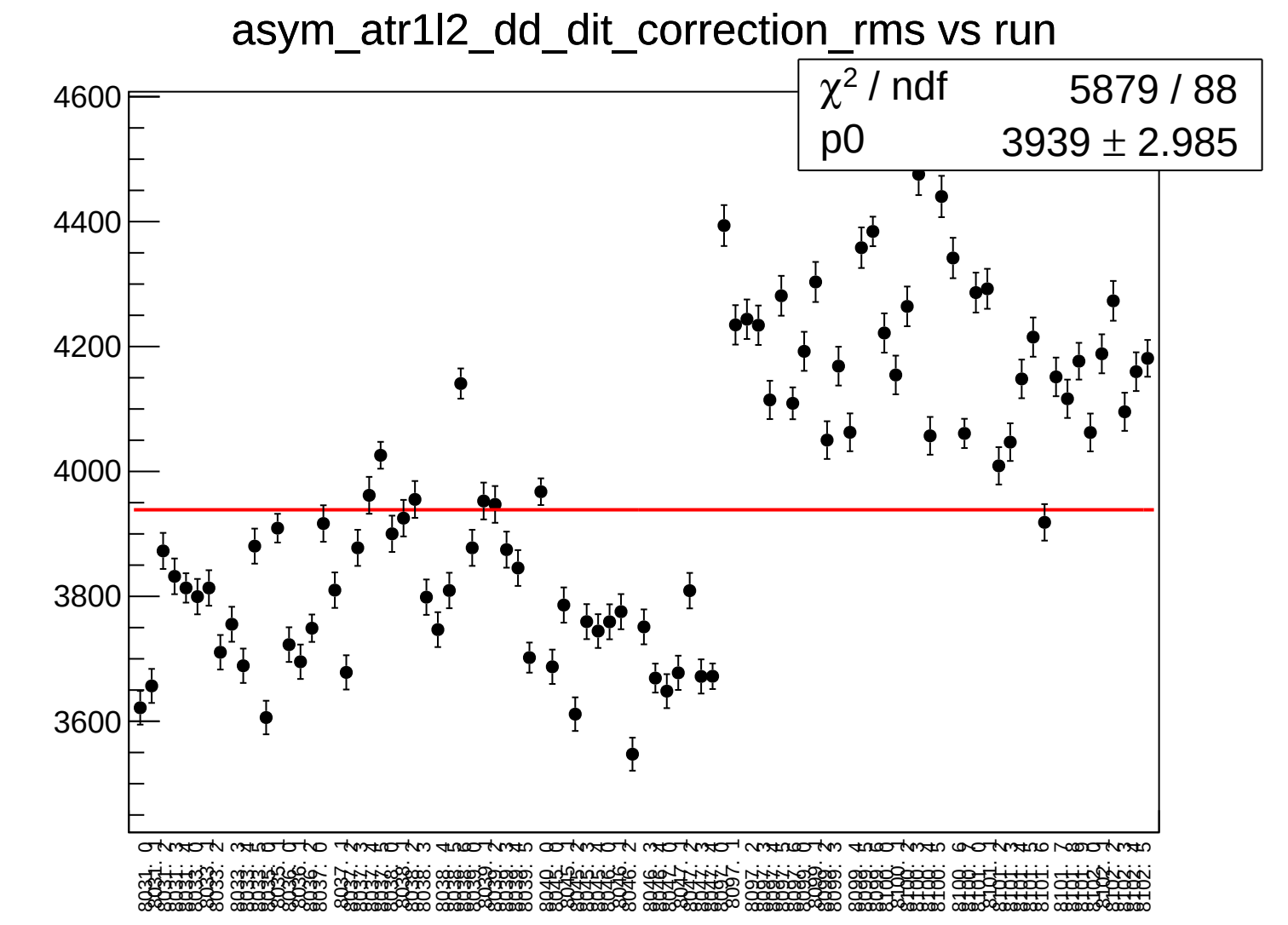

dit_asym_atr1l2_dd_mean vs run
χ² / ndf 85.51 / 88
p0 1212 ± 1872
pull
Entries 89
Mean 132.6
Std Dev 0

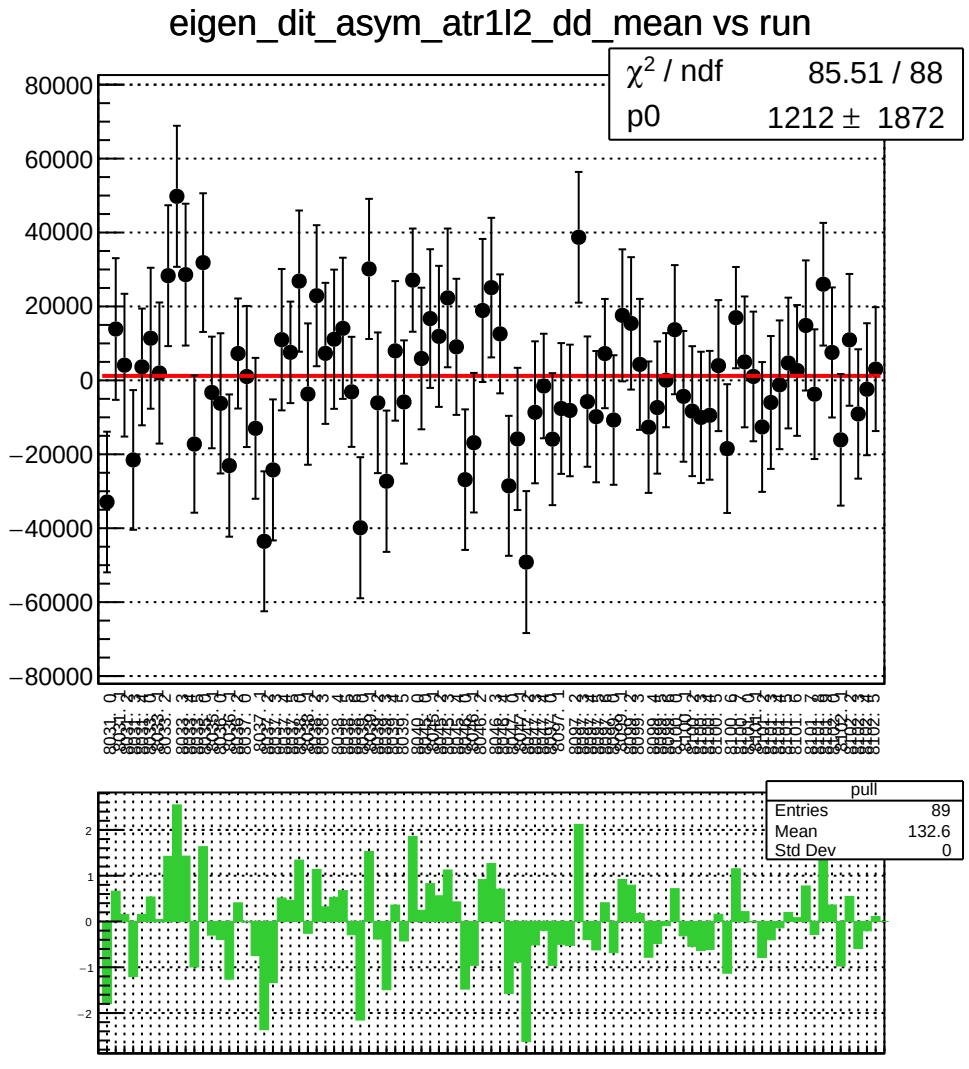

pull1D
Entries 89
Mean −0.01423
Std Dev 0.9801

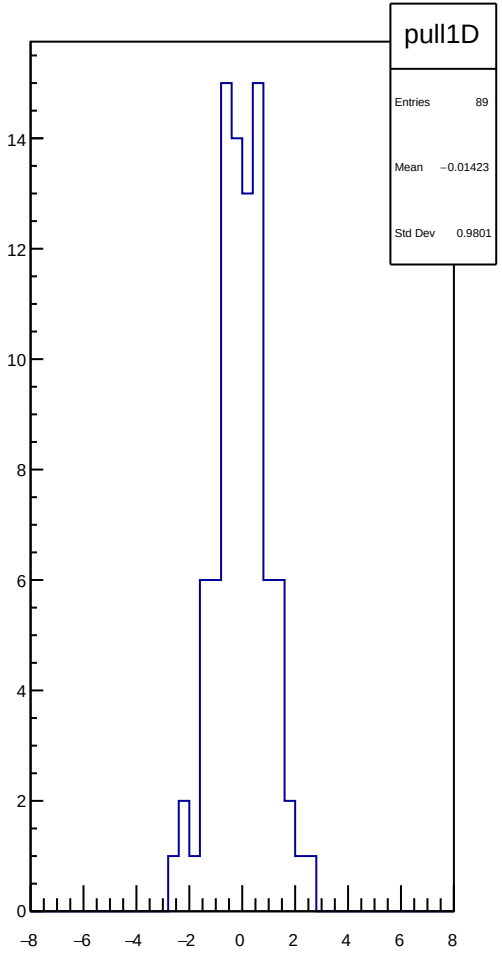

dit_asym_atr1l2_dd_rms vs run
$\chi^2$ / ndf 2526 / 88
p0 1749 ± 1.324
1850
1800
1750
1700
1650

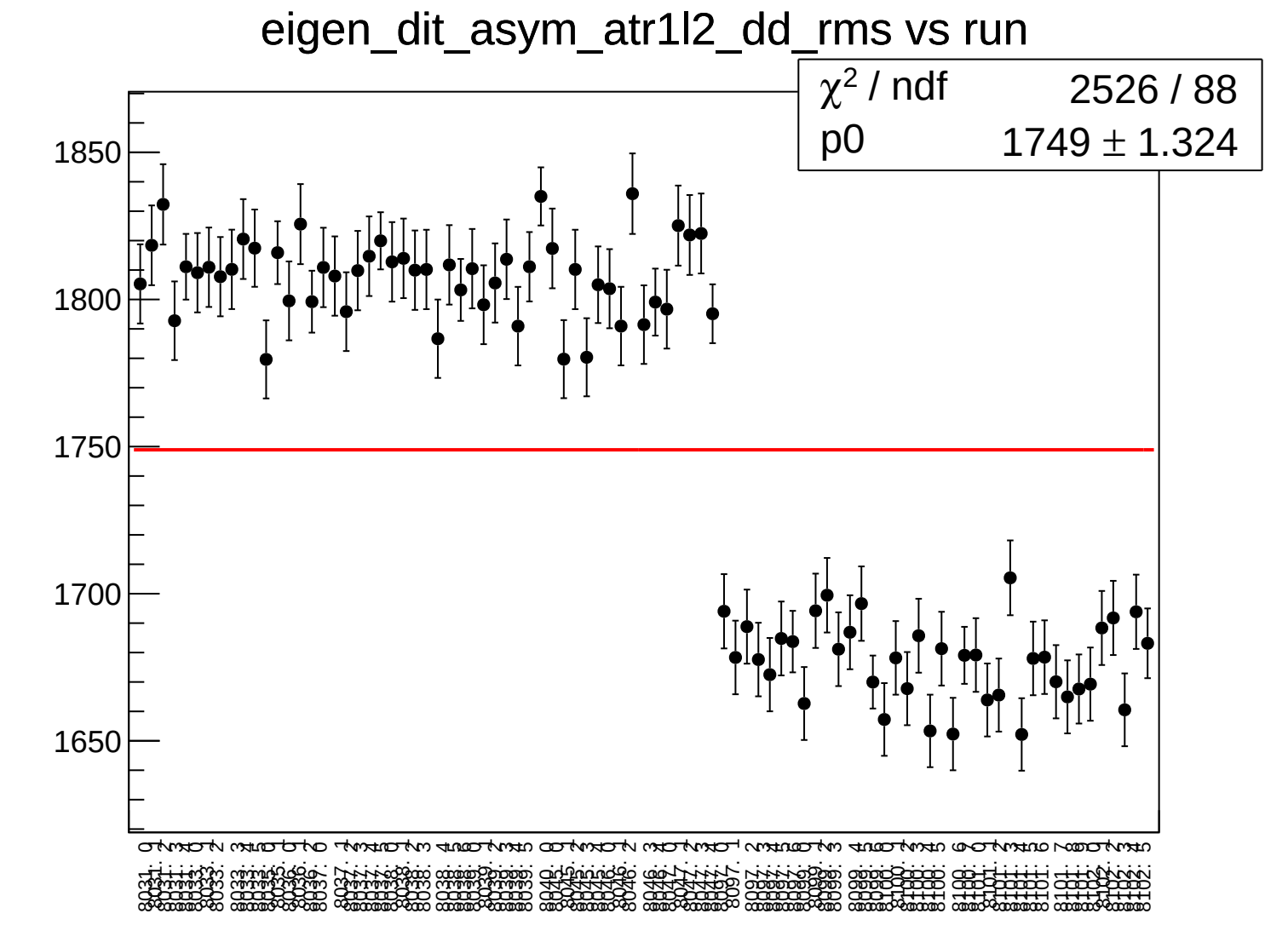

asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 98.37 / 88
p0 −1774 ± 4221
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean −812.9
Std Dev 0
2
1
0
−1
−2
−3

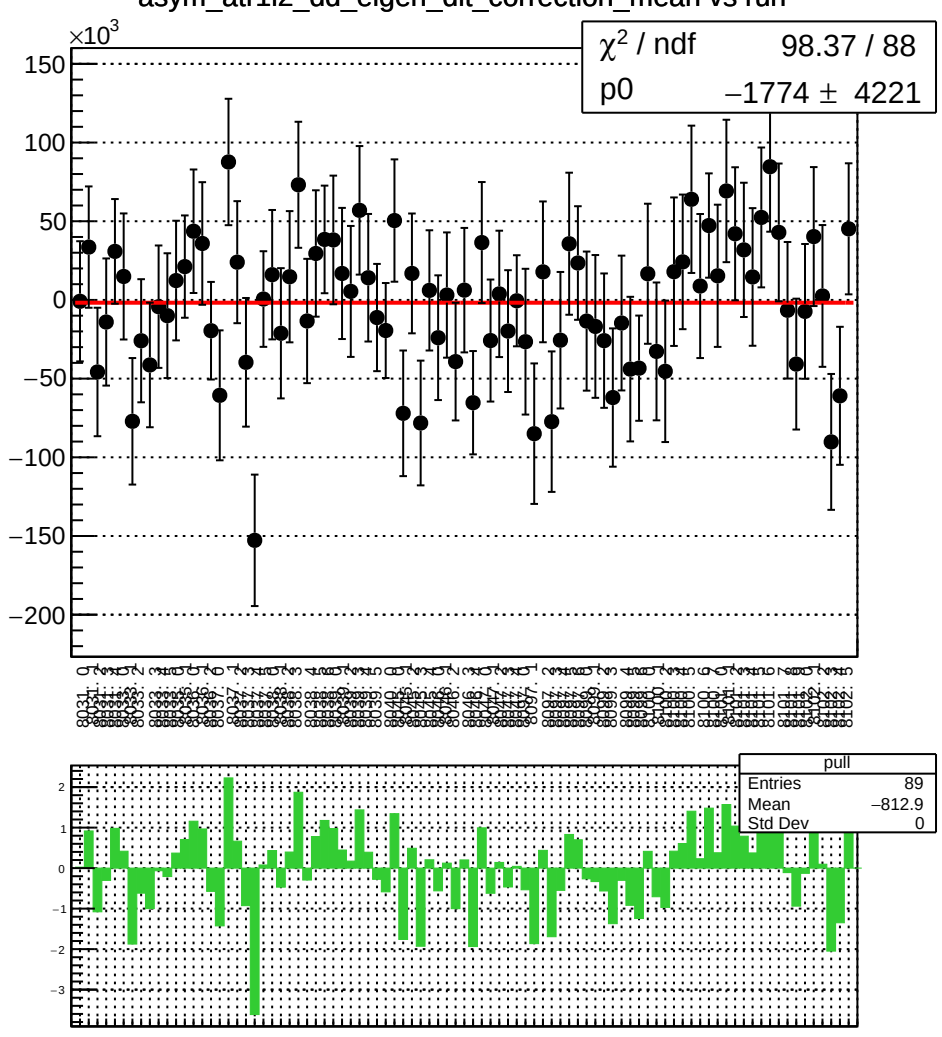

pull1D
Entries 89
Mean −0.001883
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

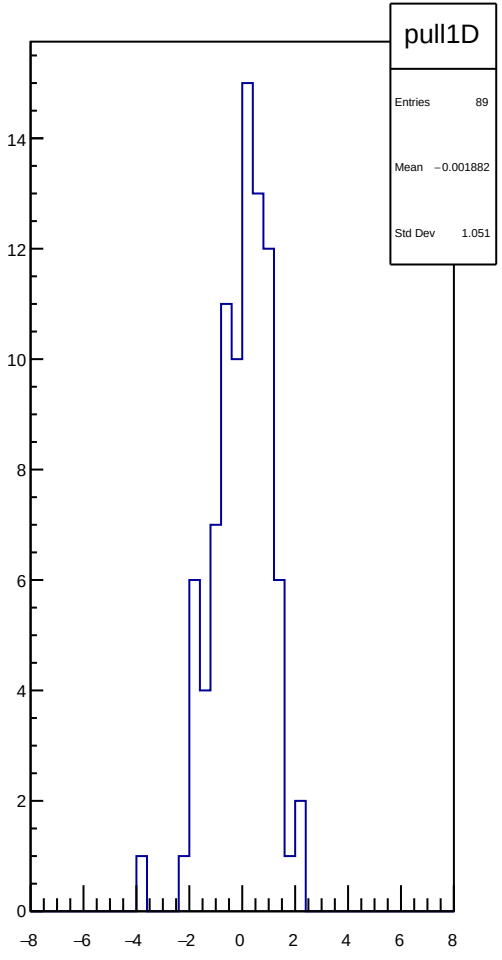

asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 5879 / 88
p0 3939 ± 2.985
4600
4400
4200
4000
3800
3600

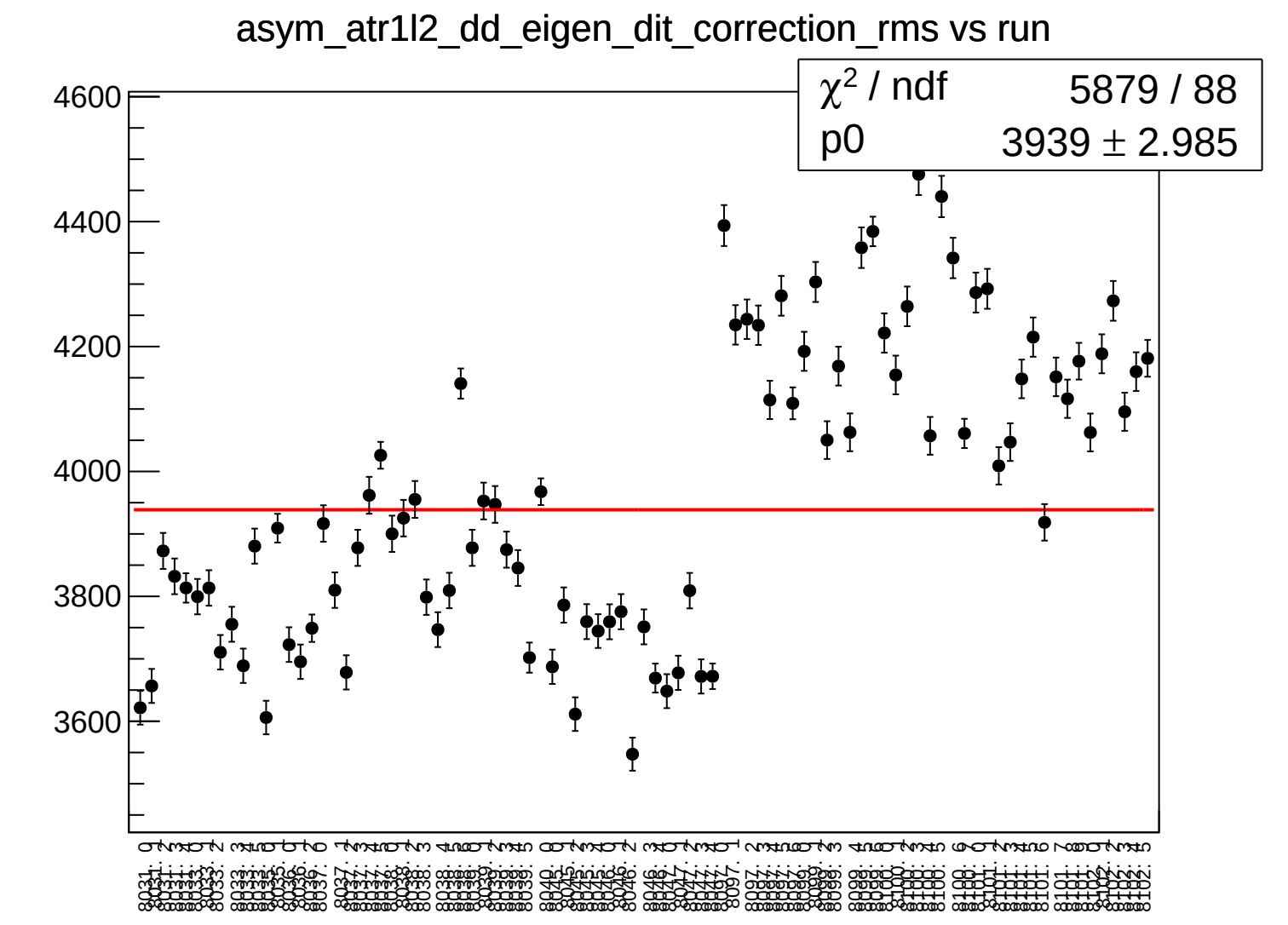

eigen_dit_asym_atr1l2_dd_mean vs run
χ² / ndf 85.51 / 88
p0 1212 ± 1872
pull
Entries 89
Mean 132.6
Std Dev 0

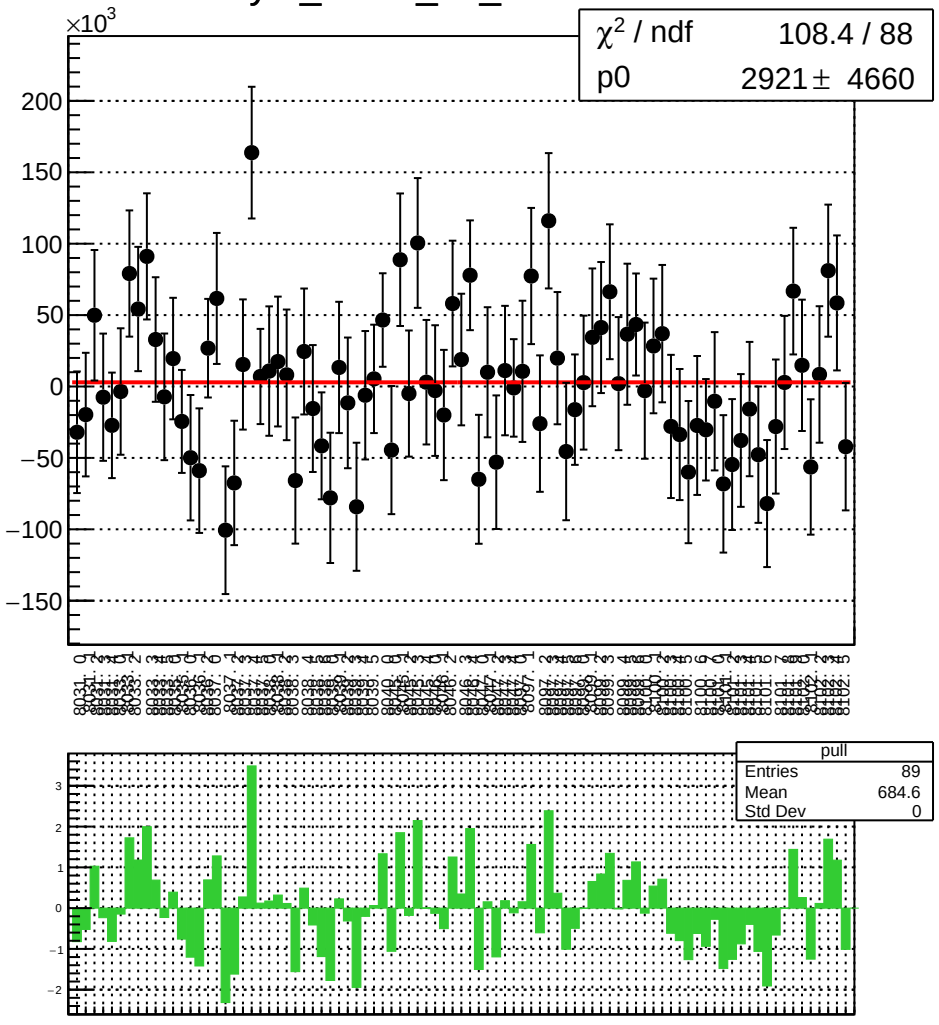

pull1D
Entries 89
Mean −0.01423
Std Dev 0.9801

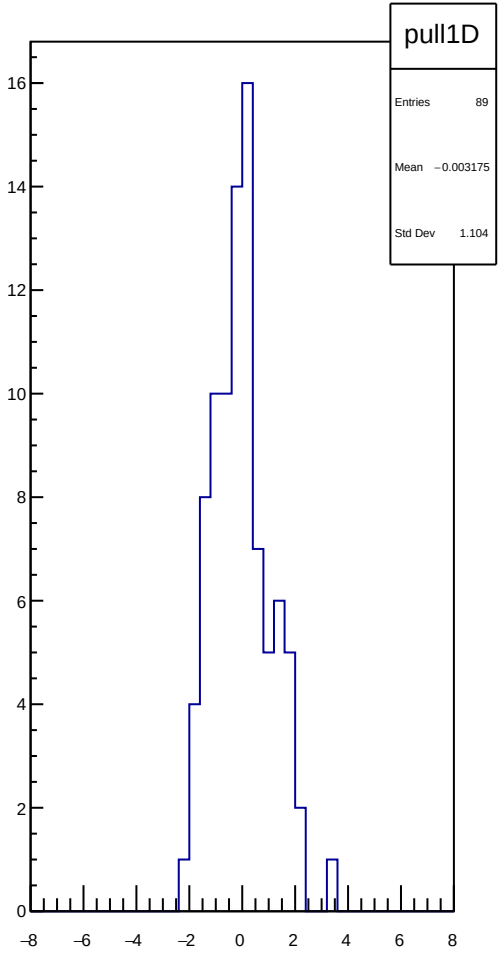

eigen_dit_asym_atr1l2_dd_rms vs run
χ² / ndf 2526 / 88
p0 1749 ± 1.324
1850
1800
1750
1700
1650

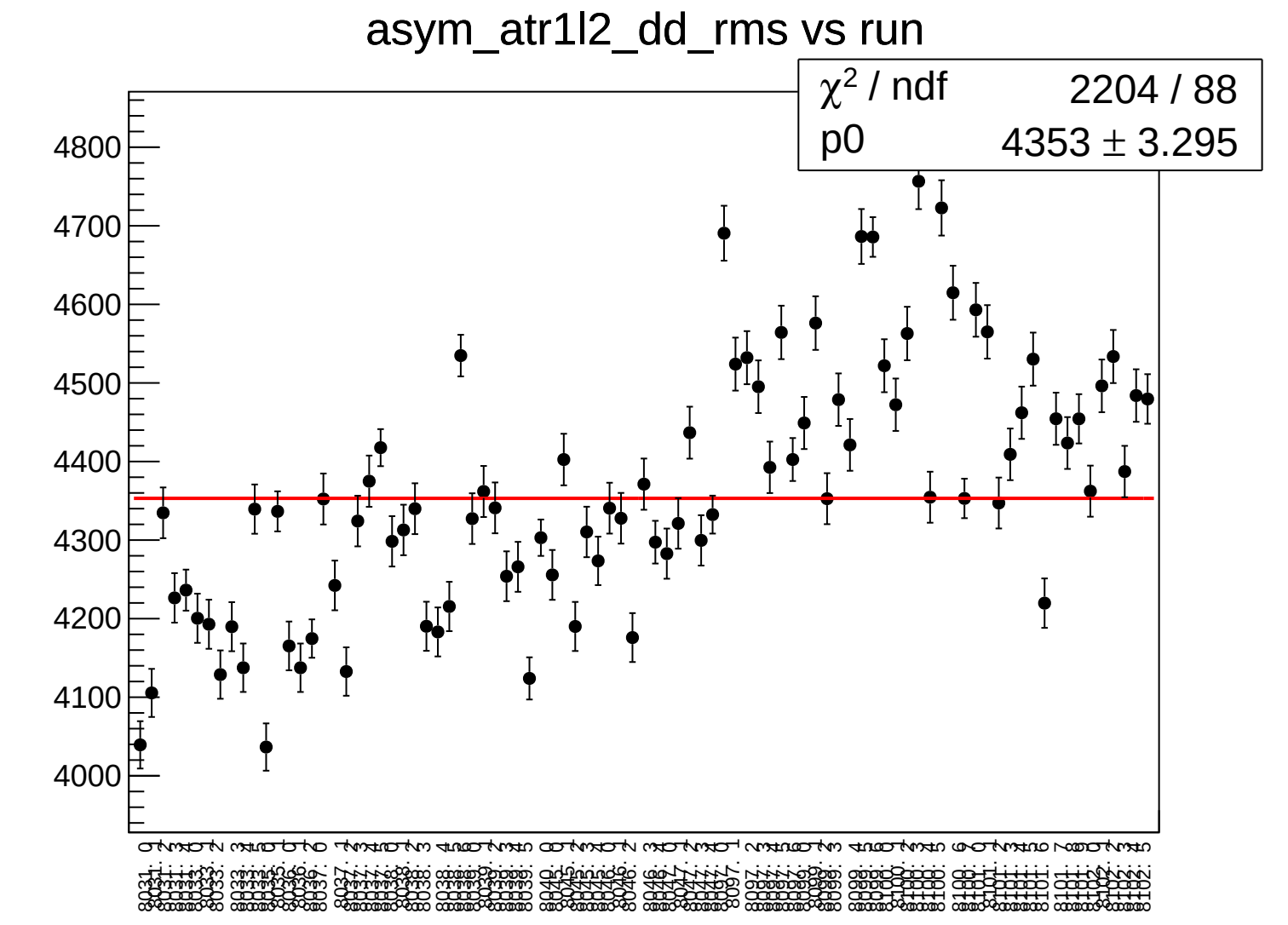

asym_atr1l2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 98.37 / 88
p0 −1774 ± 4221
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean −812.9
Std Dev 0
2
1
0
−1
−2
−3

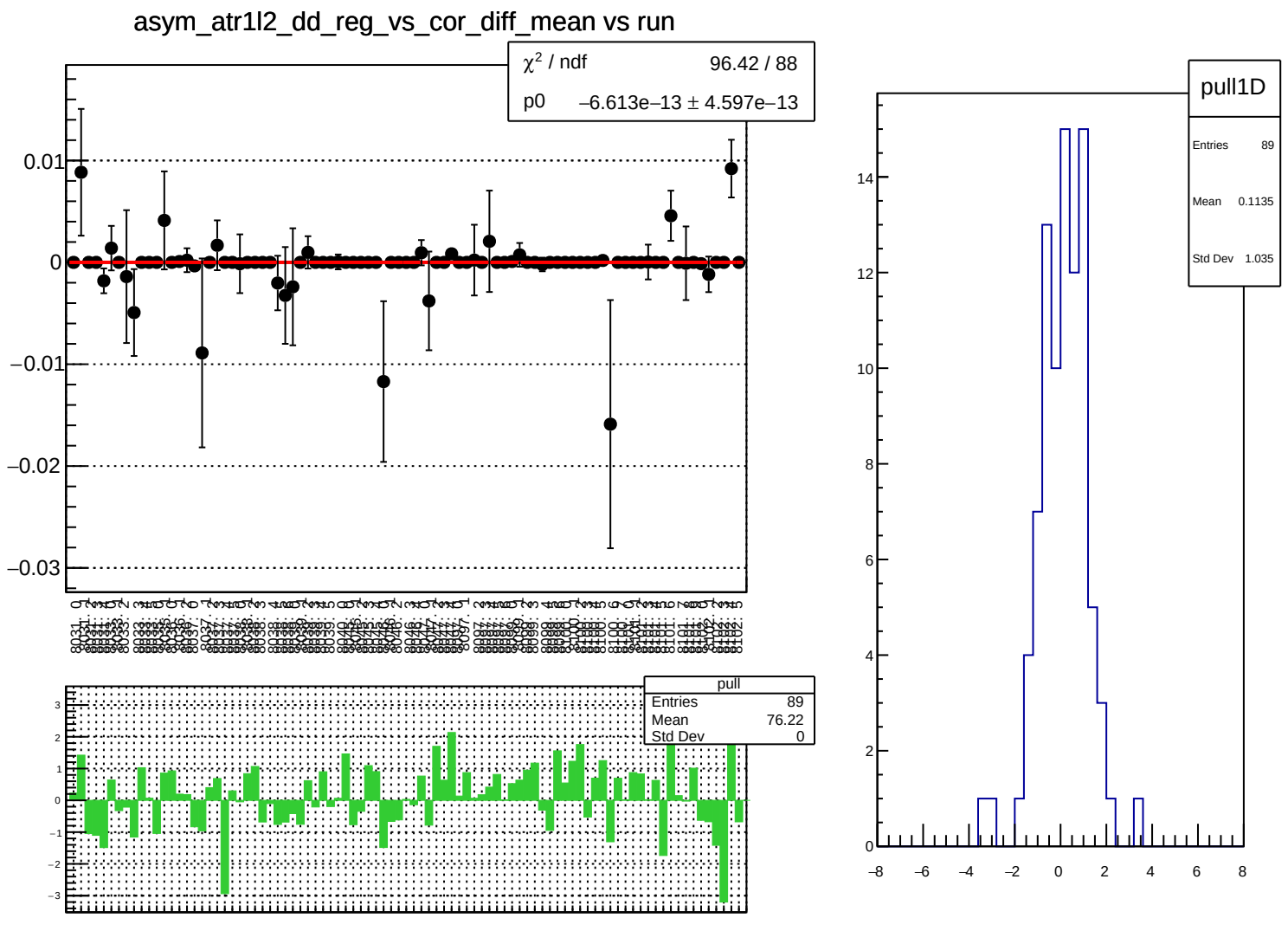

pull1D
Entries 89
Mean −0.001882
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

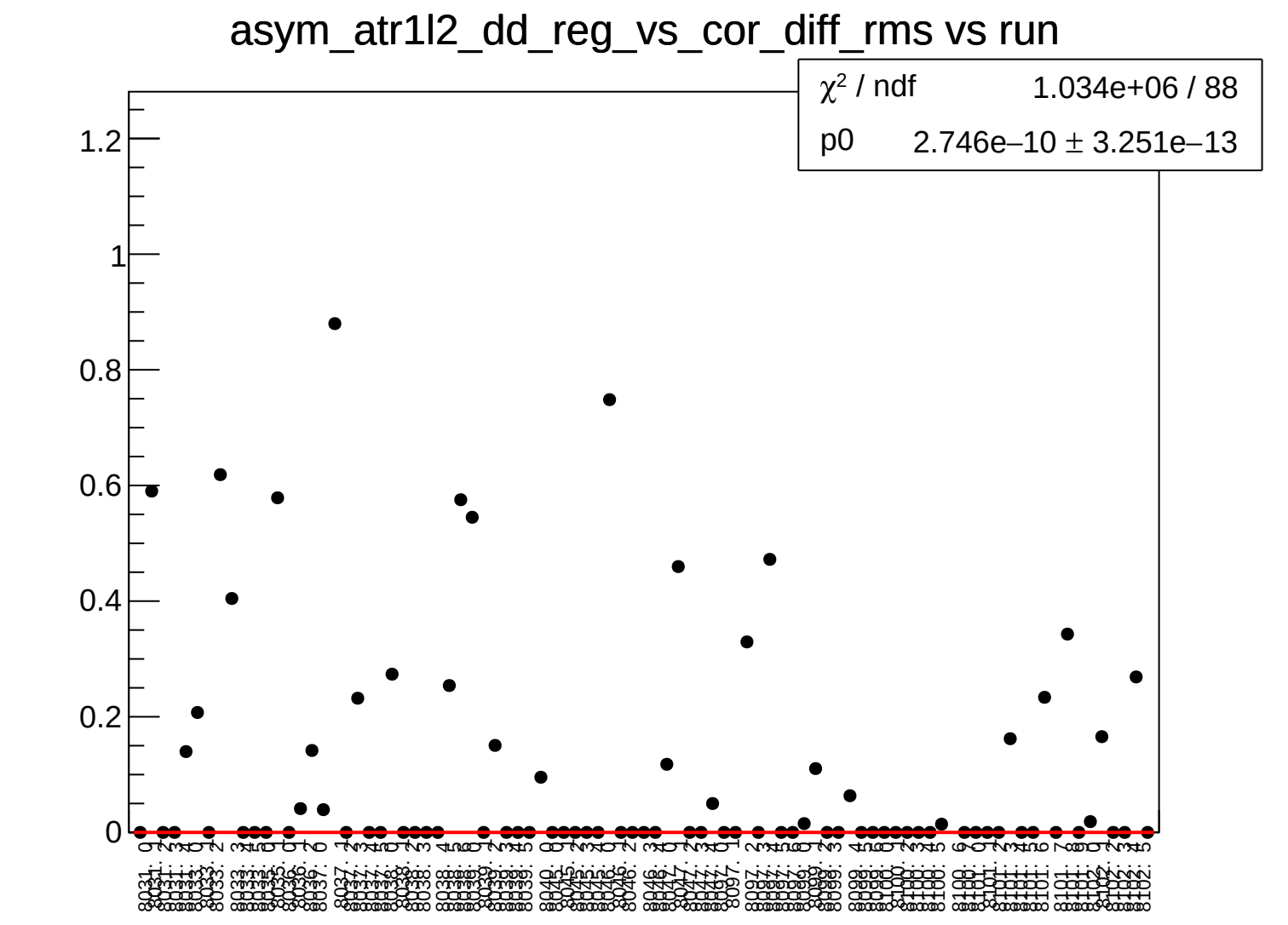

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 5879 / 88
p0 3939 ± 2.985
4600
4400
4200
4000
3800
3600

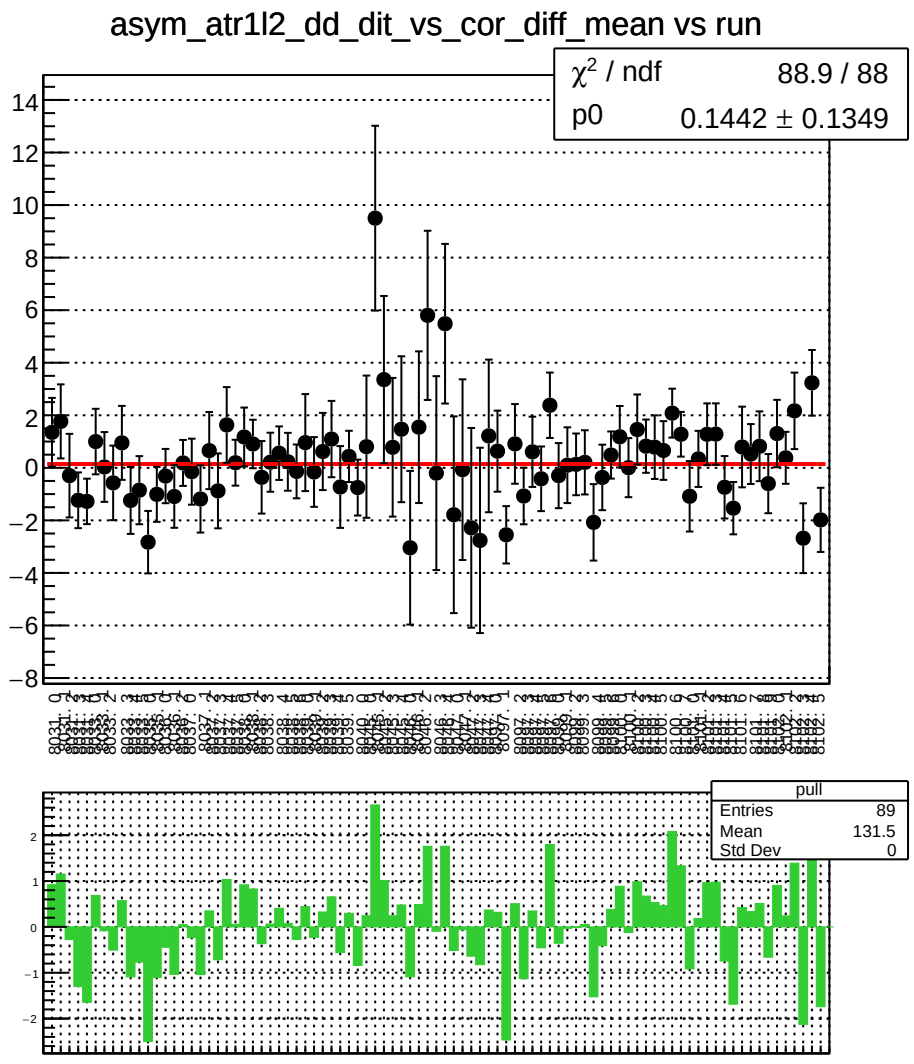

asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 108.4 / 88
p0 2921 ± 4660
pull
Entries 89
Mean 684.6
Std Dev 0

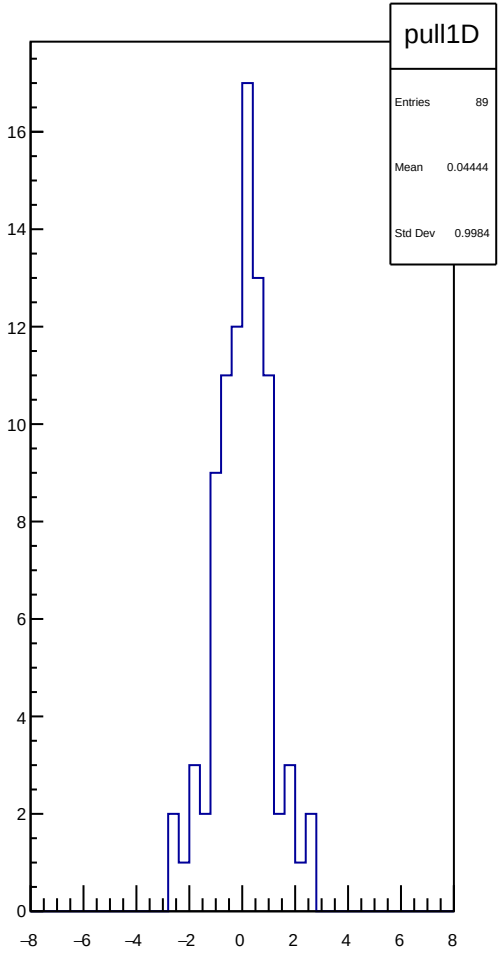

pull1D
Entries 89
Mean −0.003175
Std Dev 1.104

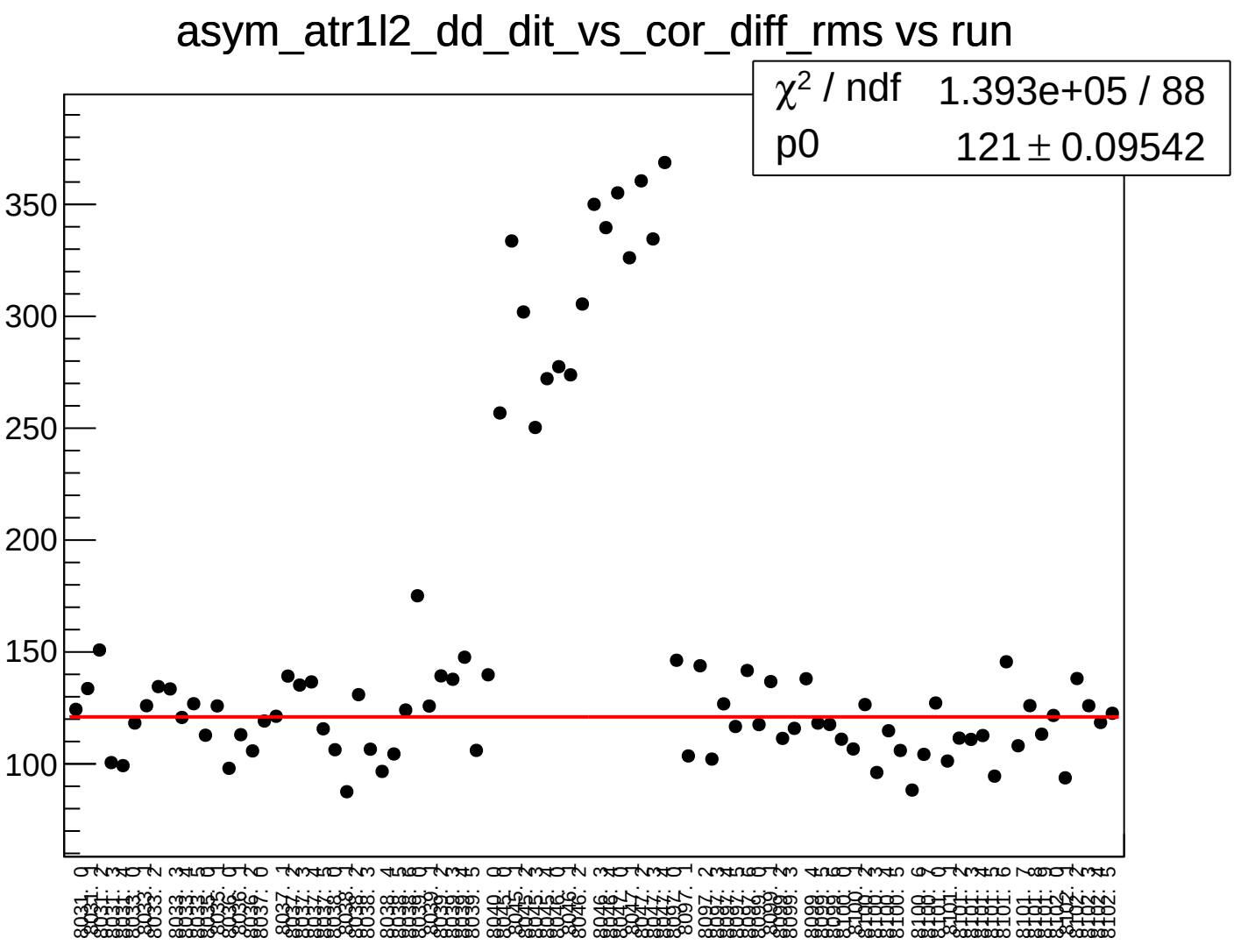

asym_atr1l2_dd_rms vs run
χ² / ndf 2204 / 88
p0 4353 ± 3.295
4800
4700
4600
4500
4400
4300
4200
4100
4000

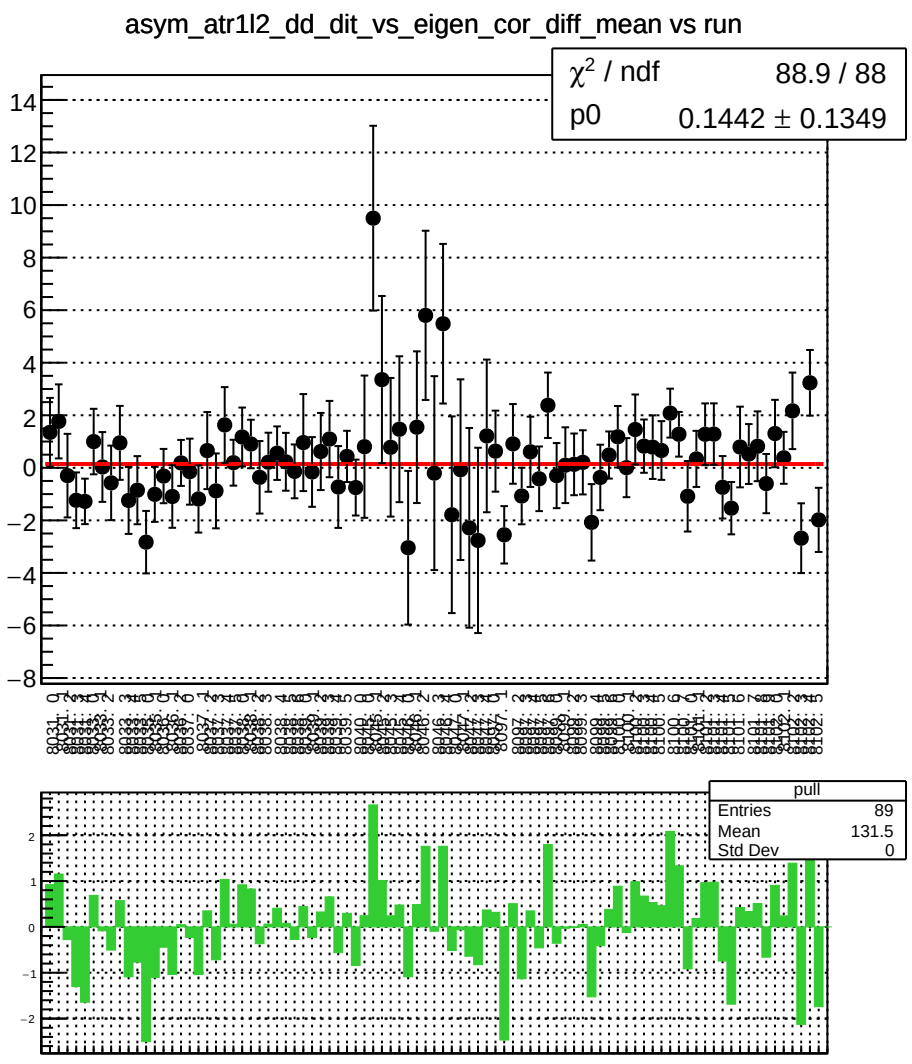

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 96.42 / 88
p0 −6.613e−13 ± 4.597e−13
0.01
0
−0.01
−0.02
−0.03
pull
Entries 89
Mean 76.22
Std Dev 0
pull1D
Entries 89
Mean 0.1135
Std Dev 1.035
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

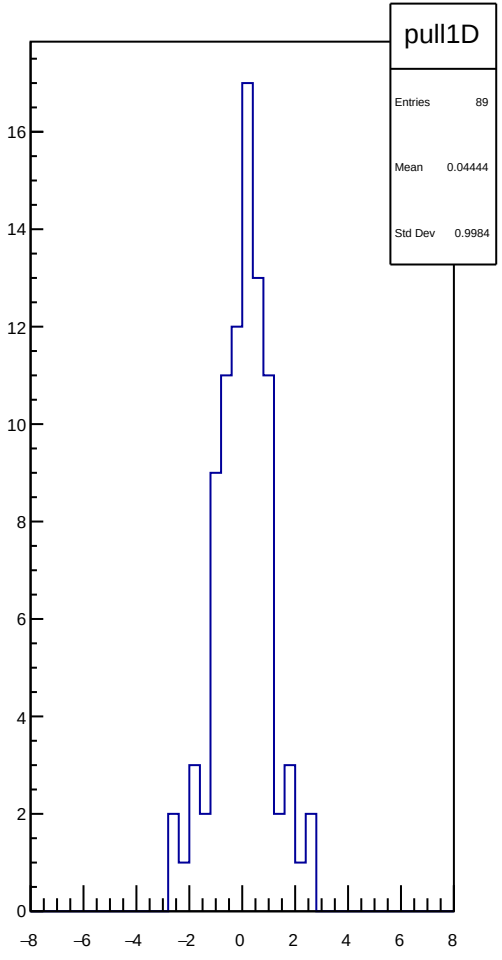

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.034e+06 / 88
p0 2.746e−10 ± 3.251e−13
1.2
1
0.8
0.6
0.4
0.2
0

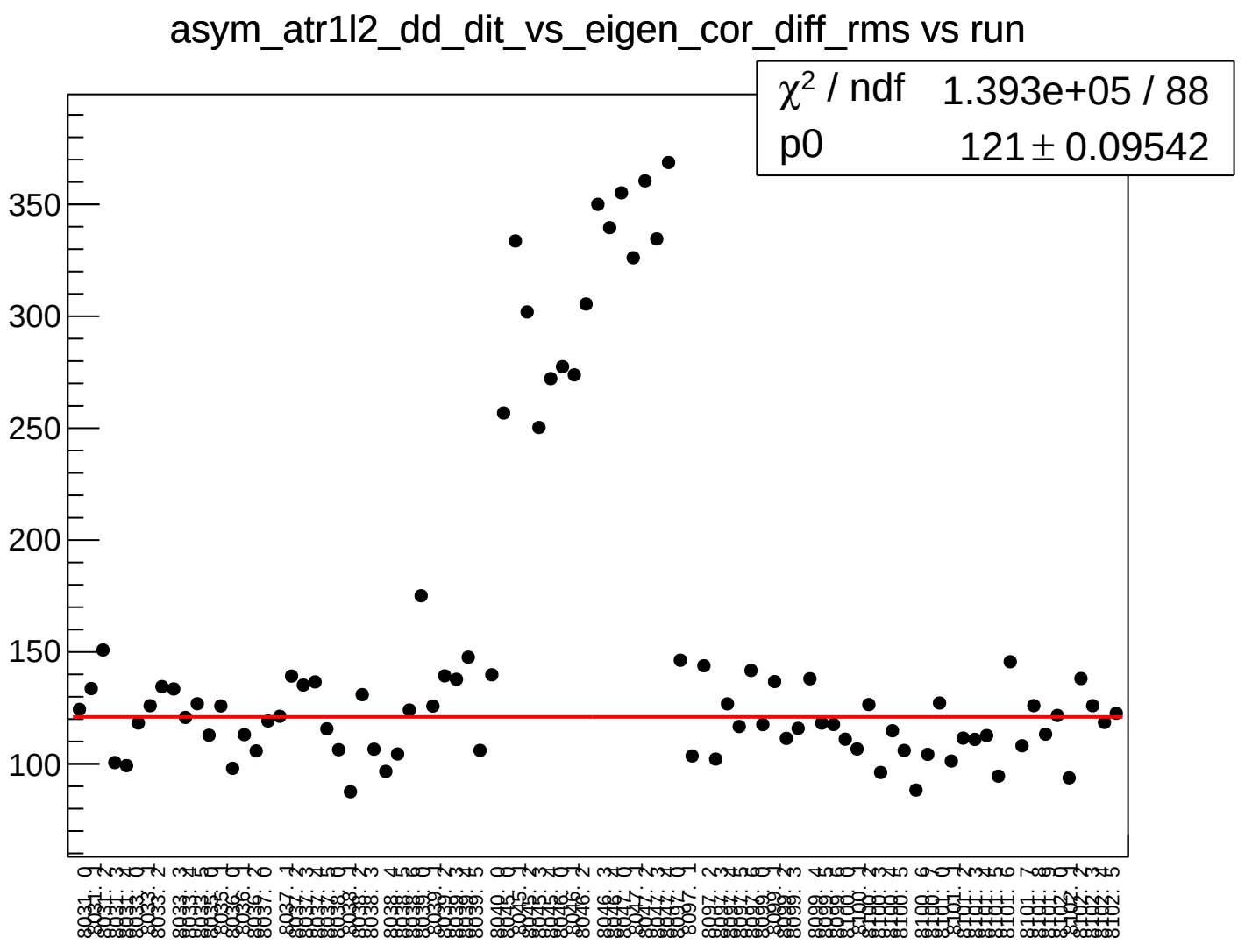

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 88.9 / 88
p0 0.1442 ± 0.1349
pull
Entries 89
Mean 131.5
Std Dev 0

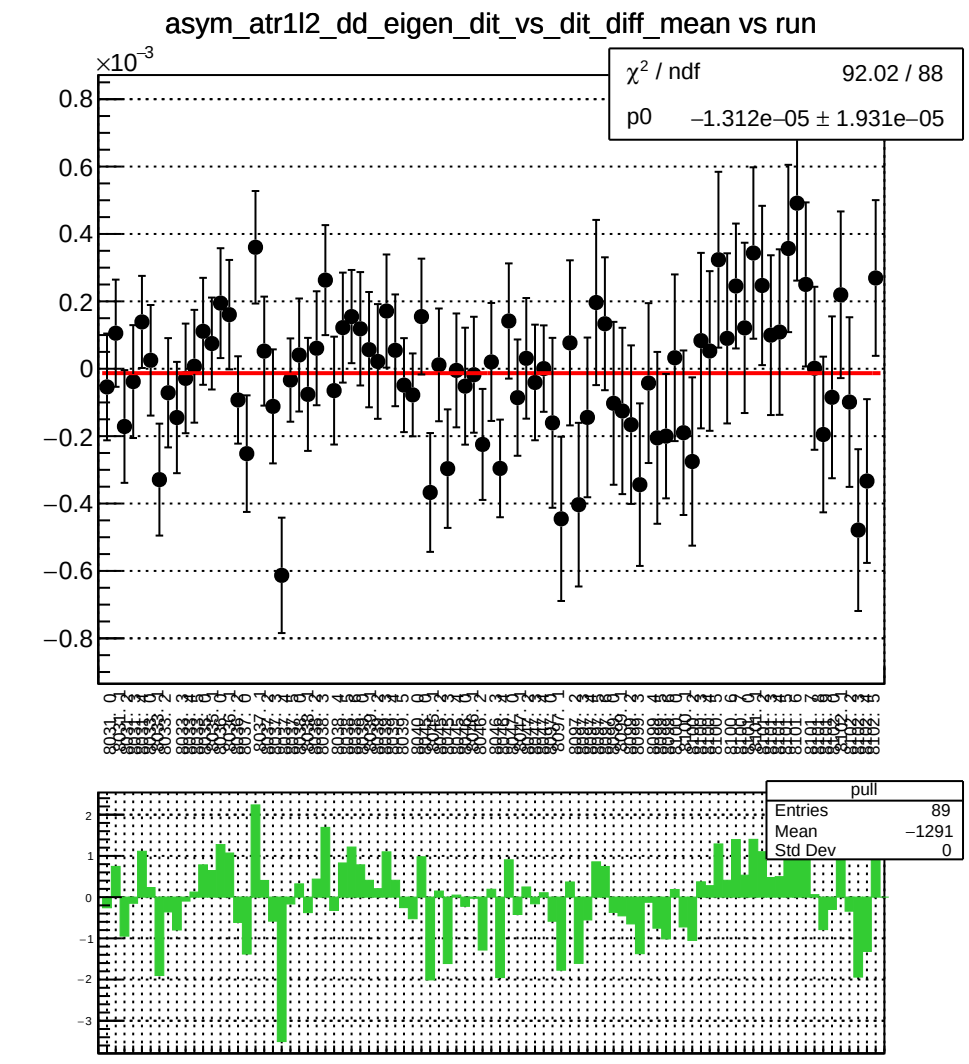

pull1D
Entries 89
Mean 0.04444
Std Dev 0.9984

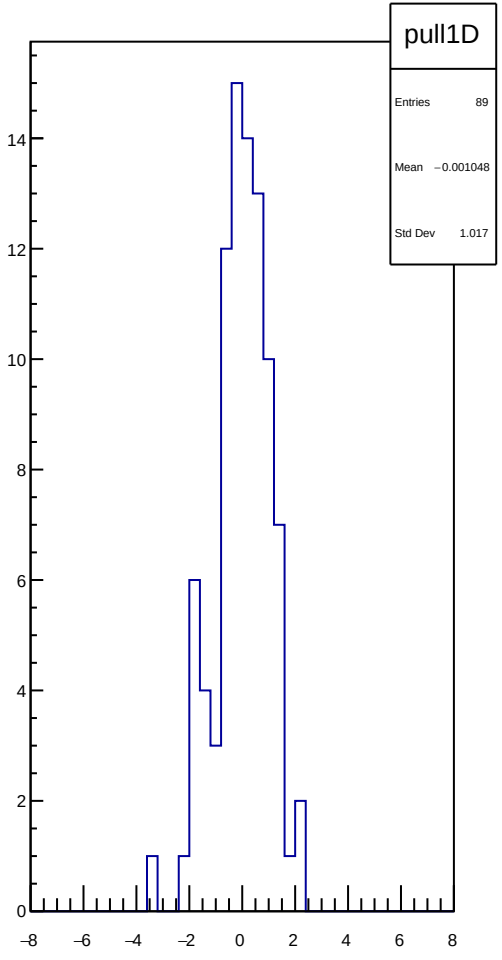

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.393e+05 / 88
p0 121 ± 0.09542
350
300
250
200
150
100

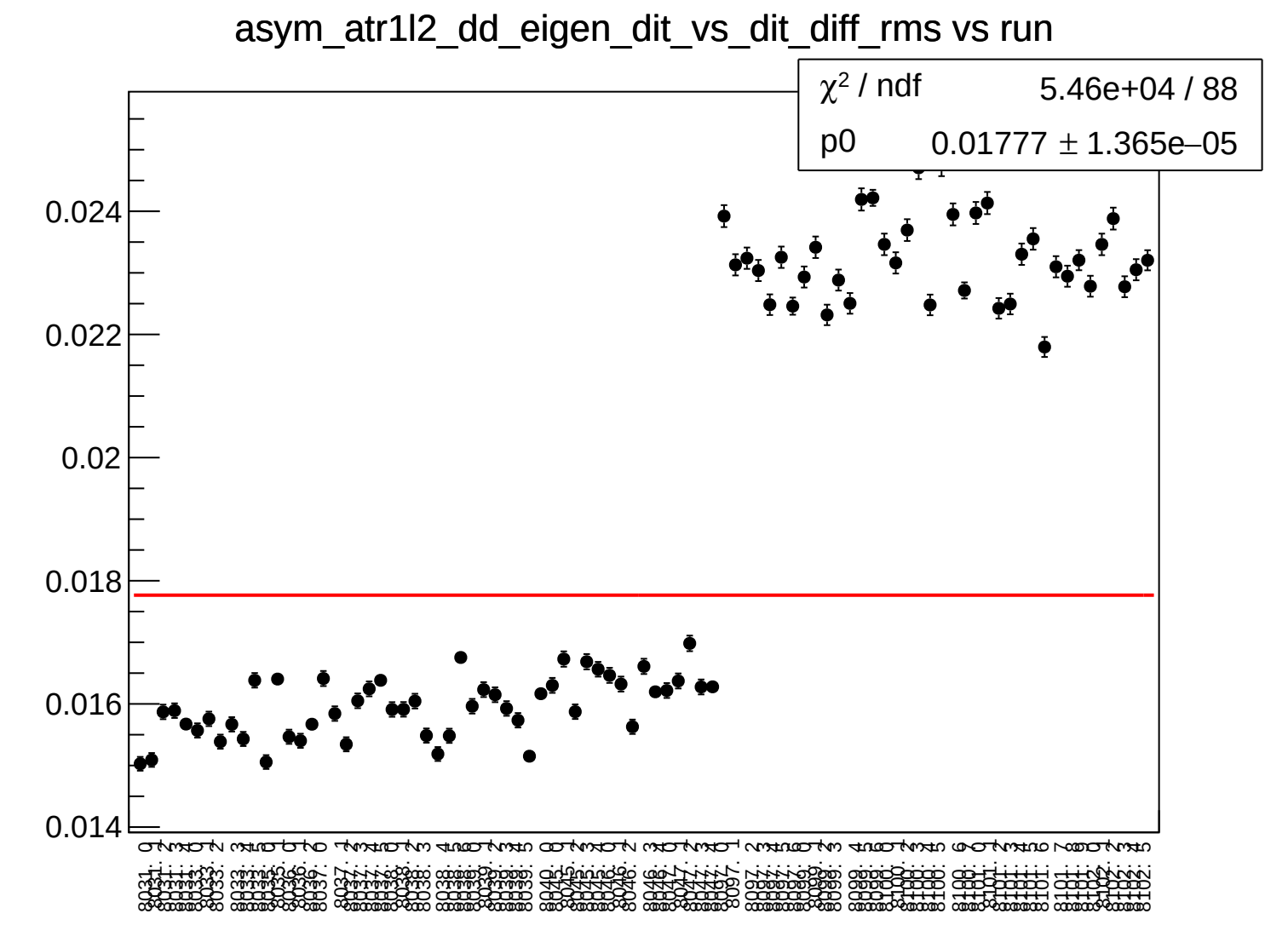

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.9 / 88
p0 0.1442 ± 0.1349
pull
Entries 89
Mean 131.5
Std Dev 0

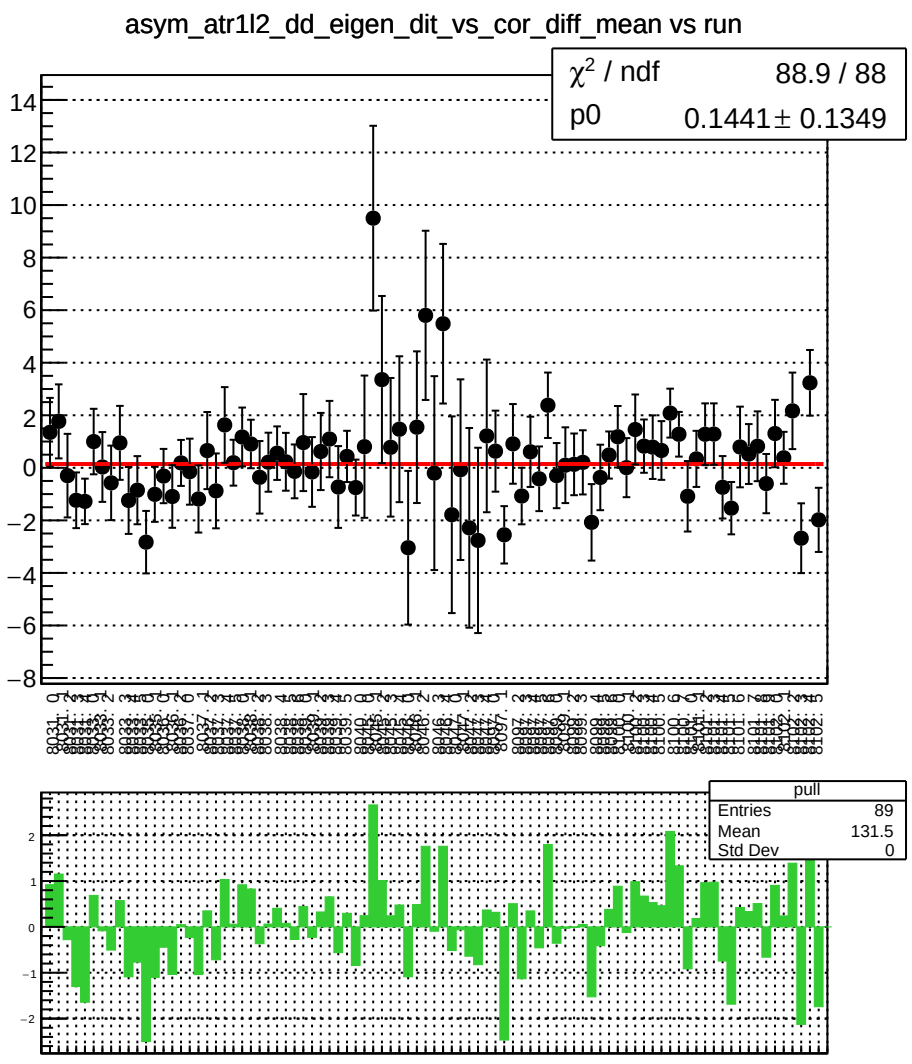

pull1D
Entries 89
Mean 0.04444
Std Dev 0.9984

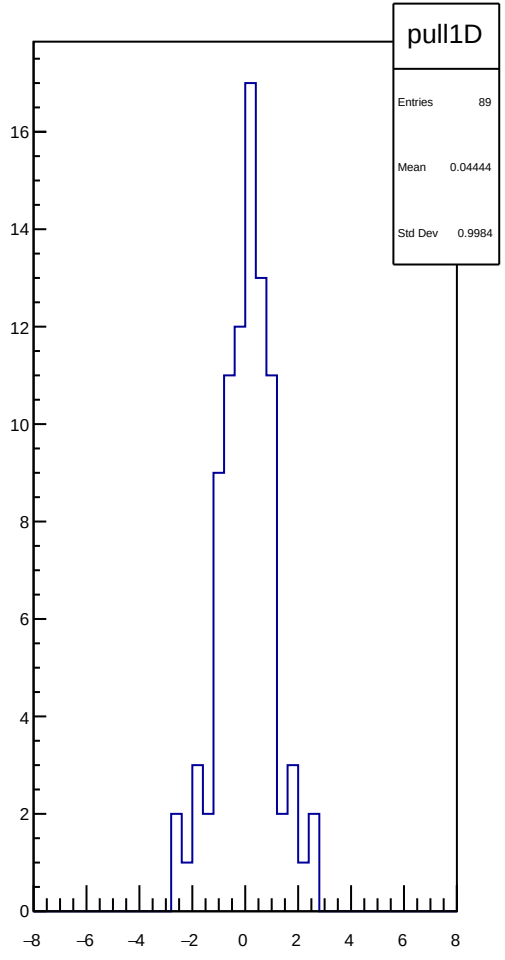

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.393e+05 / 88
p0 121 ± 0.09542
350
300
250
200
150
100

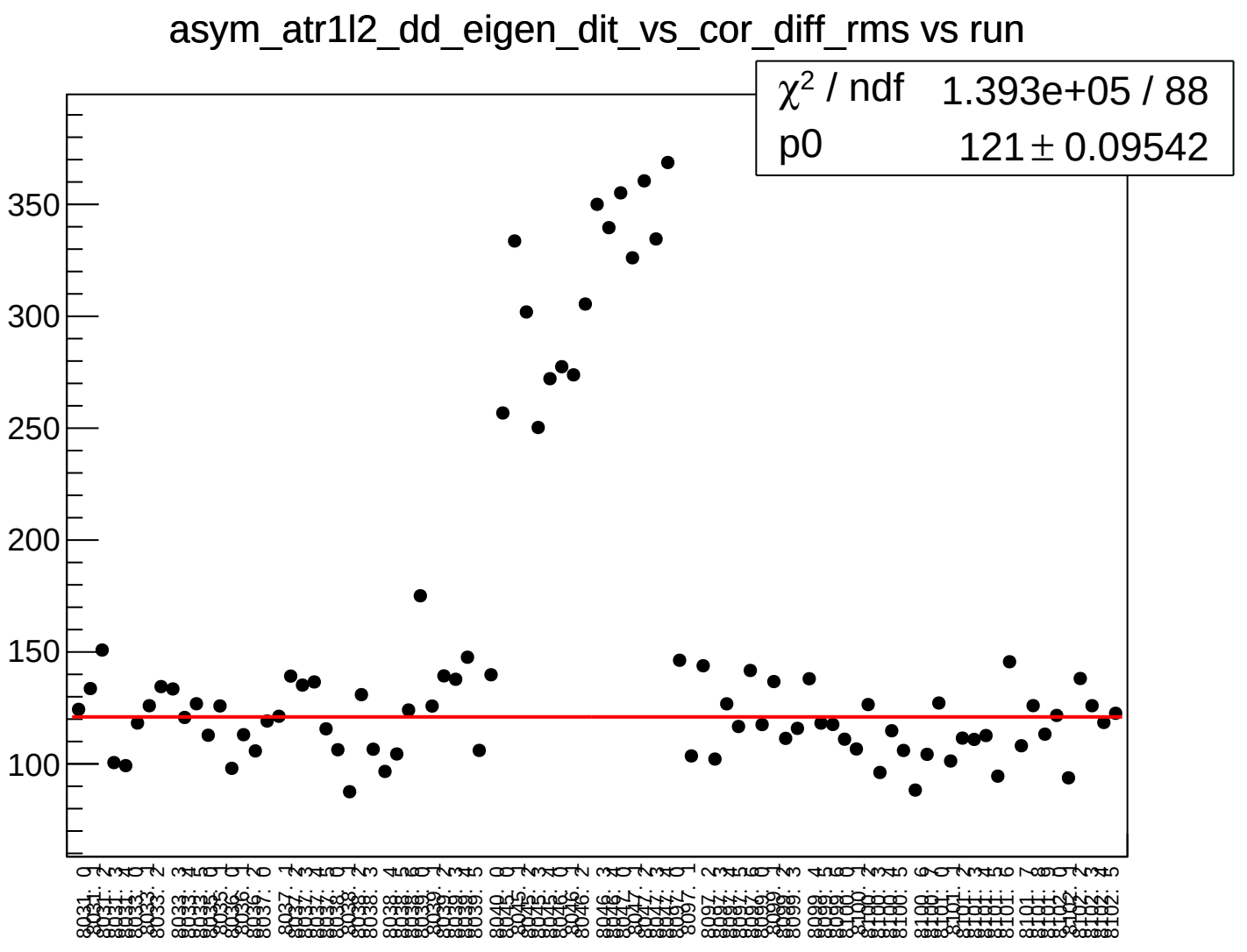

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.02 / 88
p0 −1.312e−05 ± 1.931e−05
pull
Entries 89
Mean −1291
Std Dev 0

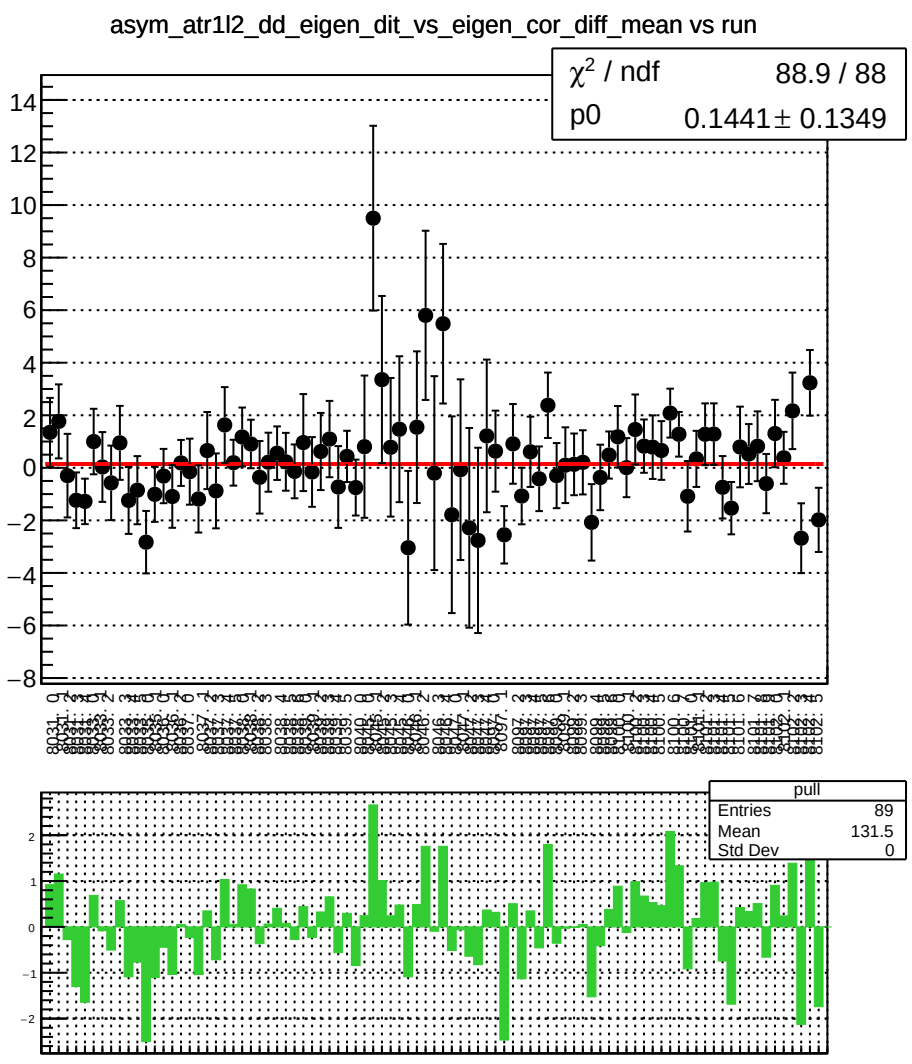

pull1D
Entries 89
Mean −0.001048
Std Dev 1.017

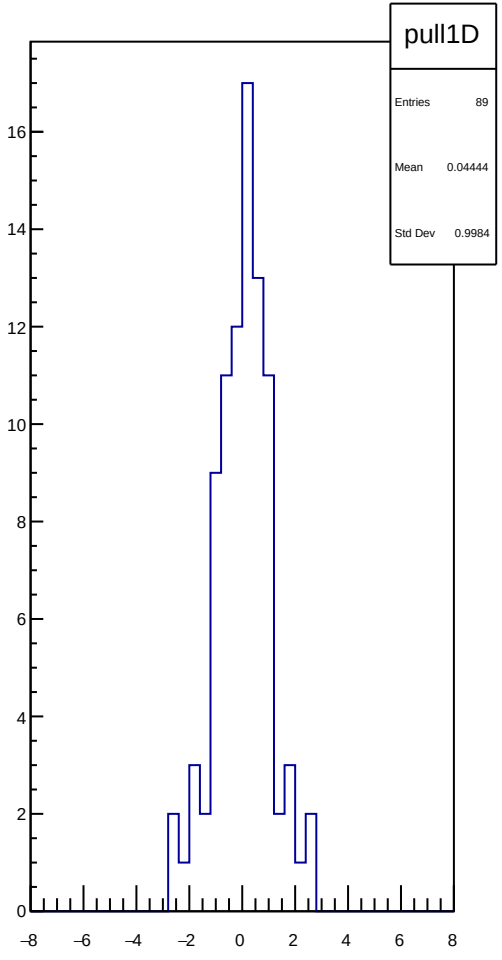

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.46e+04 / 88
p0 0.01777 ± 1.365e−05
0.024
0.022
0.02
0.018
0.016
0.014

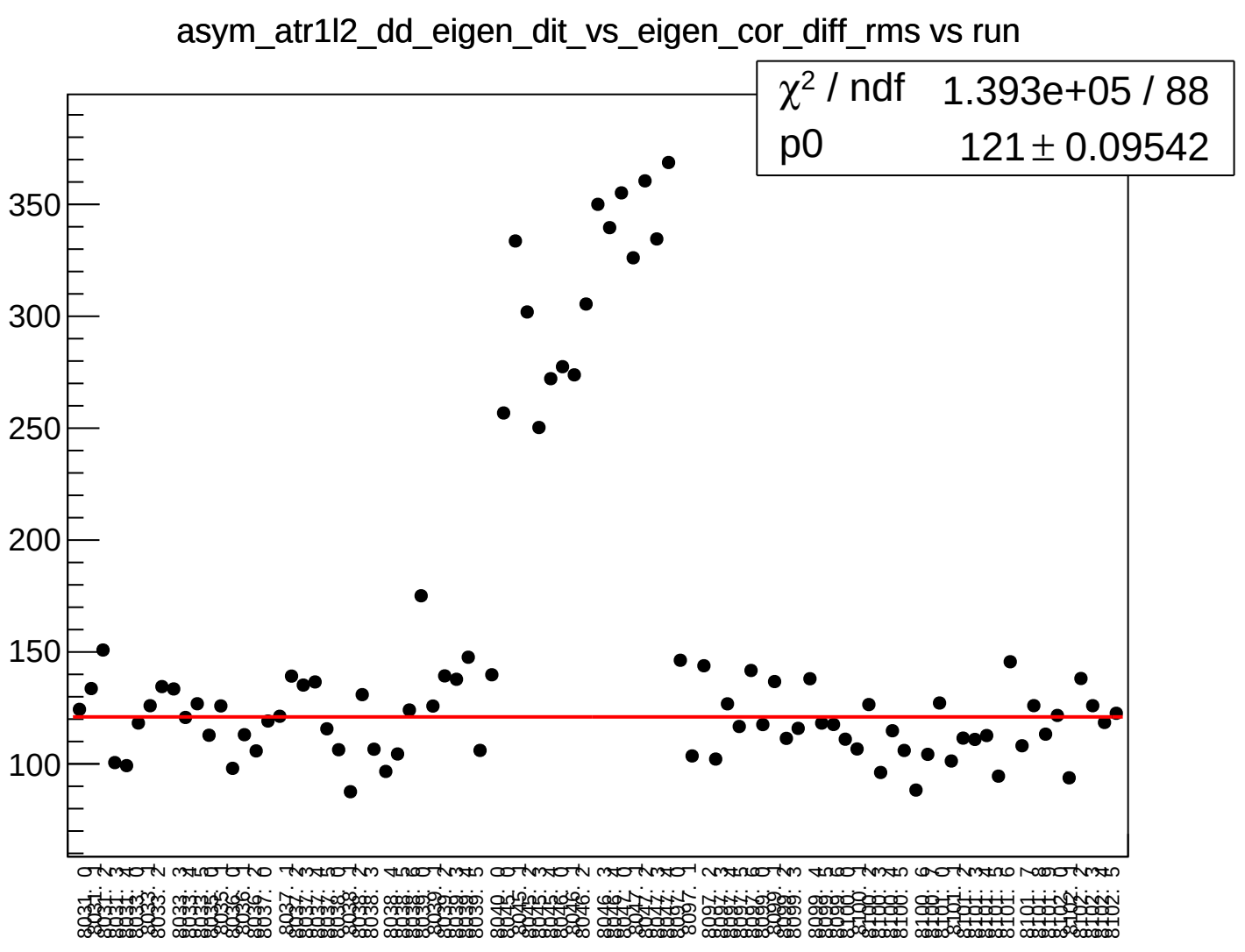

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.9 / 88
p0 0.1441 ± 0.1349
pull
Entries 89
Mean 131.5
Std Dev 0

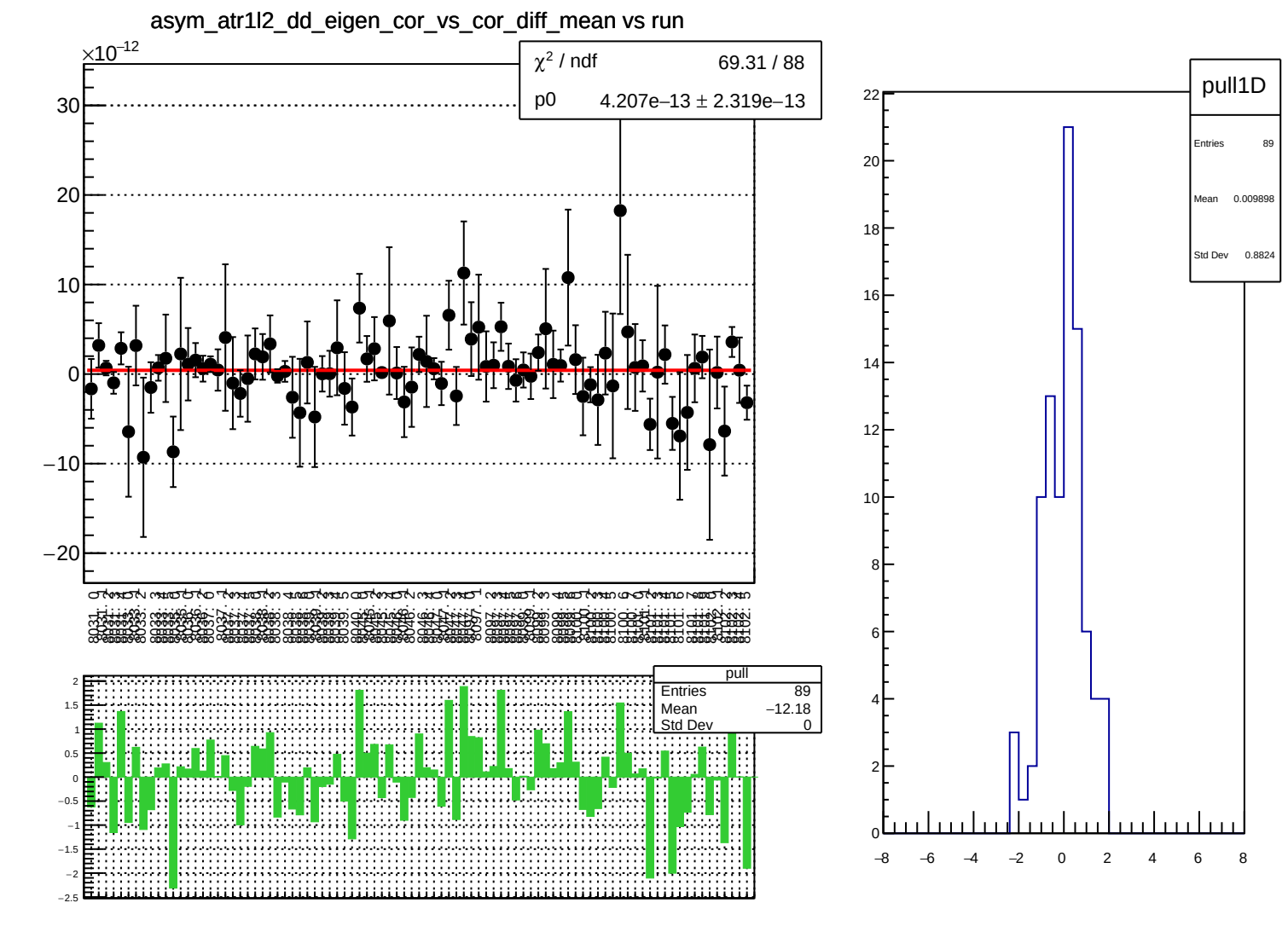

pull1D
Entries 89
Mean 0.04444
Std Dev 0.9984

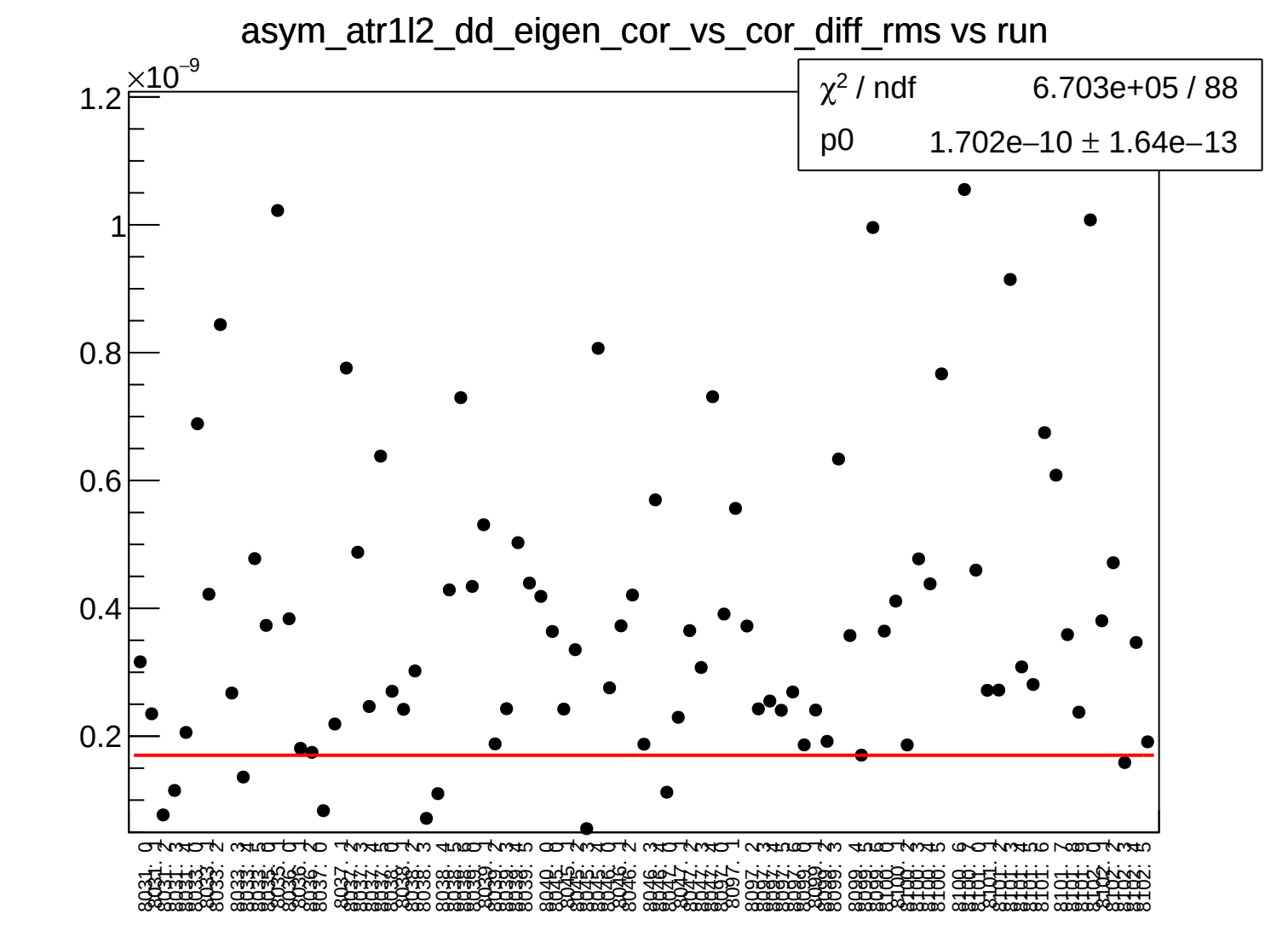

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.393e+05 / 88
p0 121 ± 0.09542
350
300
250
200
150
100

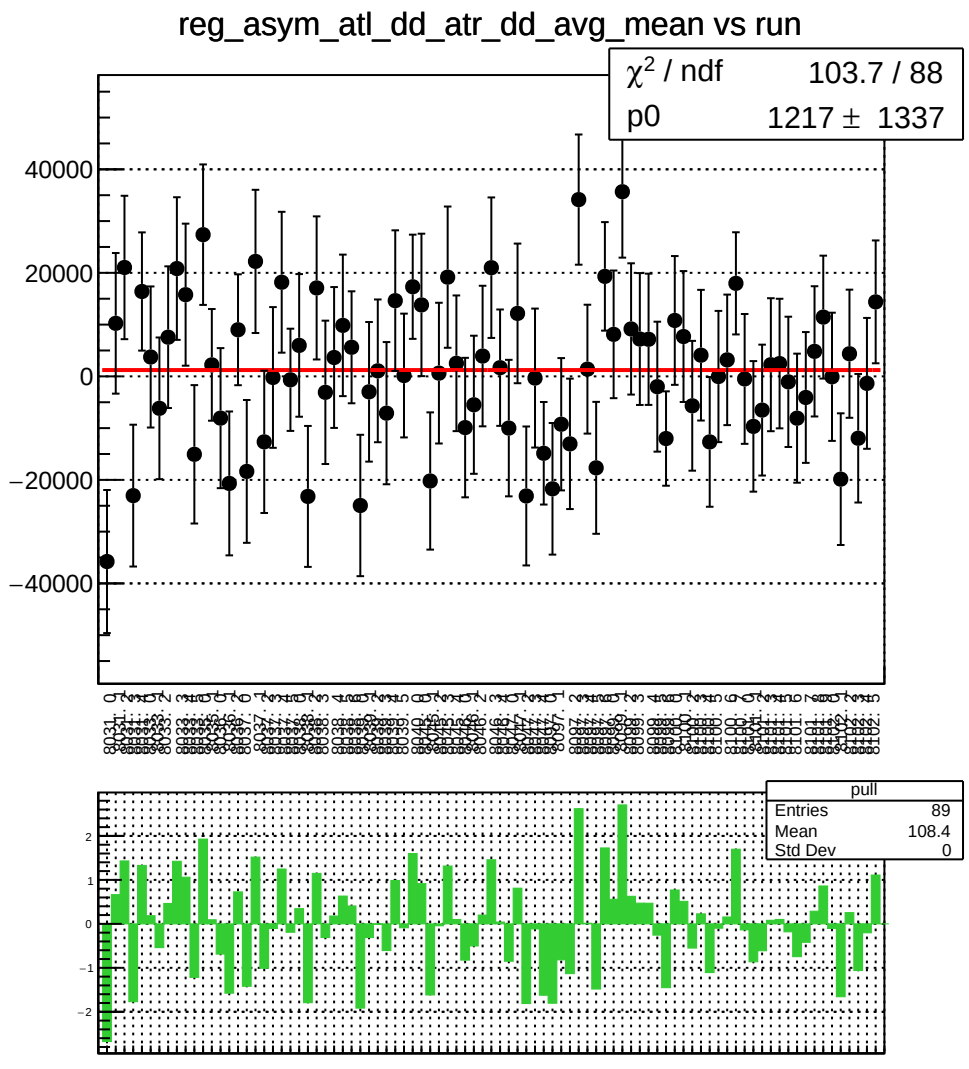

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.9 / 88
p0 0.1441 ± 0.1349
pull
Entries 89
Mean 131.5
Std Dev 0

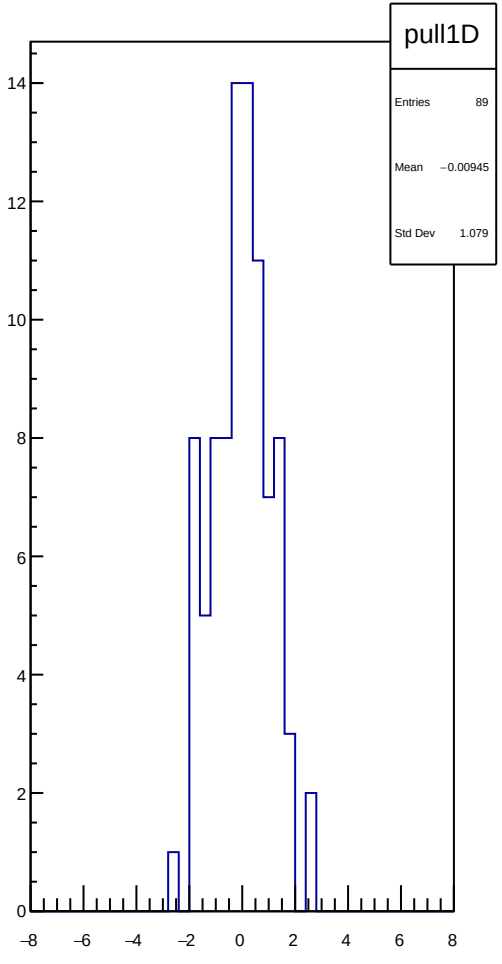

pull1D
Entries 89
Mean 0.04444
Std Dev 0.9984

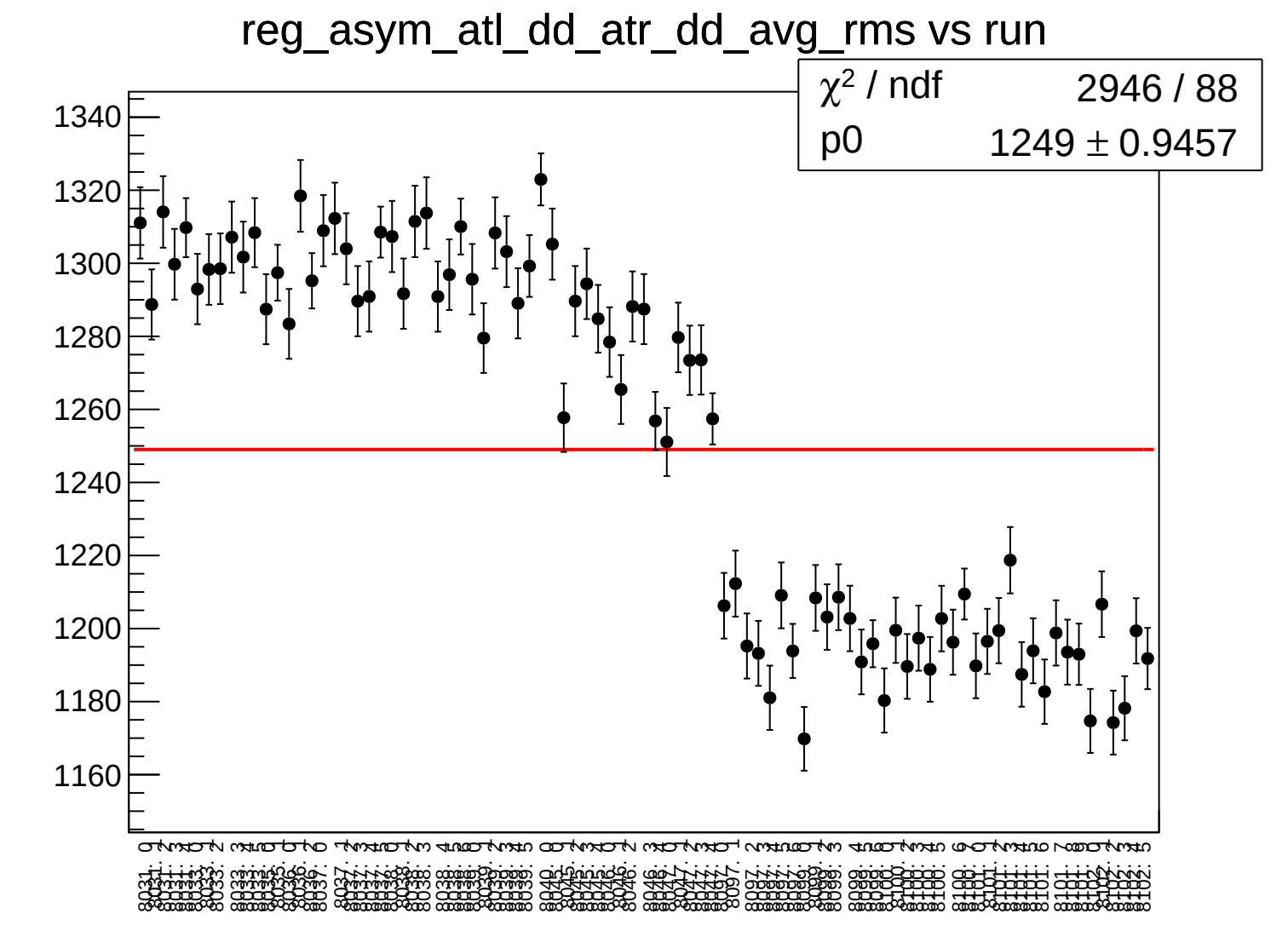

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.393e+05 / 88
p0 121 ± 0.09542
350
300
250
200
150
100

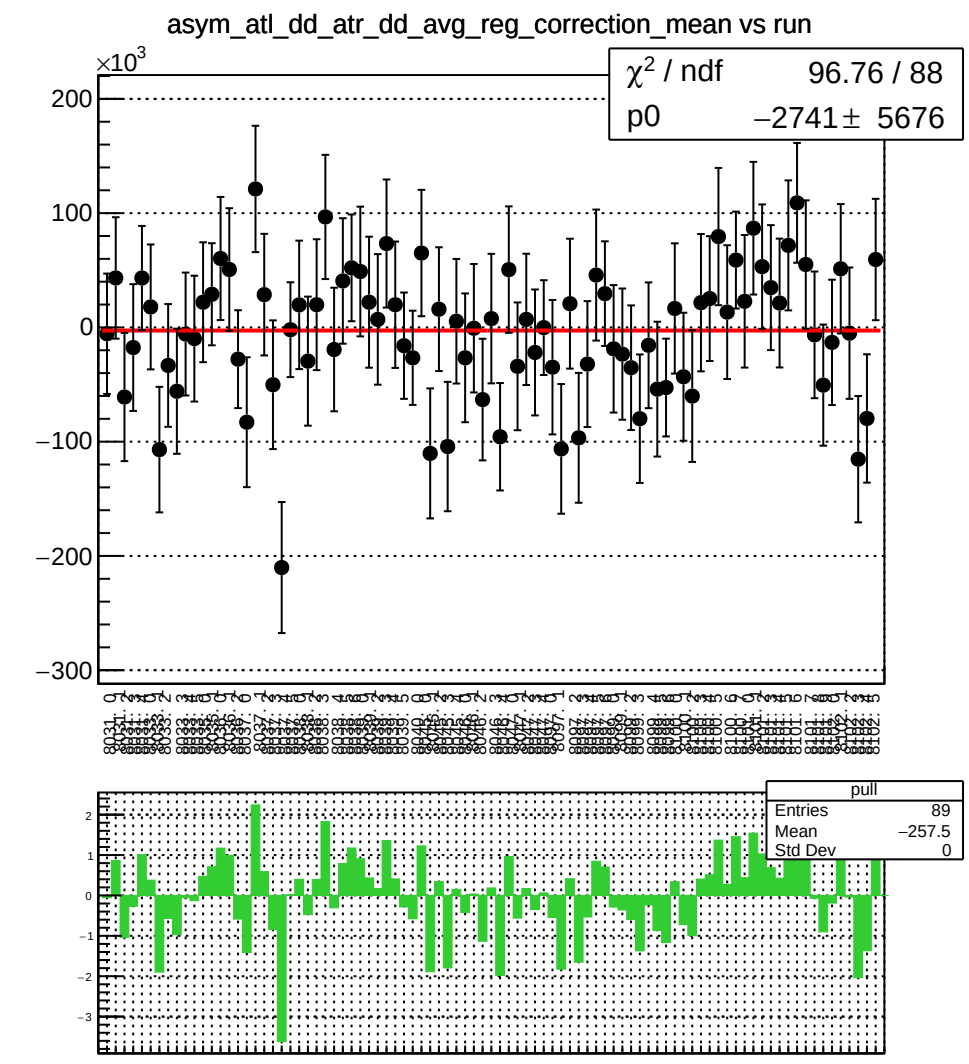

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 69.31 / 88
p0 4.207e−13 ± 2.319e−13
pull
Entries 89
Mean −12.18
Std Dev 0
pull1D
Entries 89
Mean 0.009898
Std Dev 0.8824

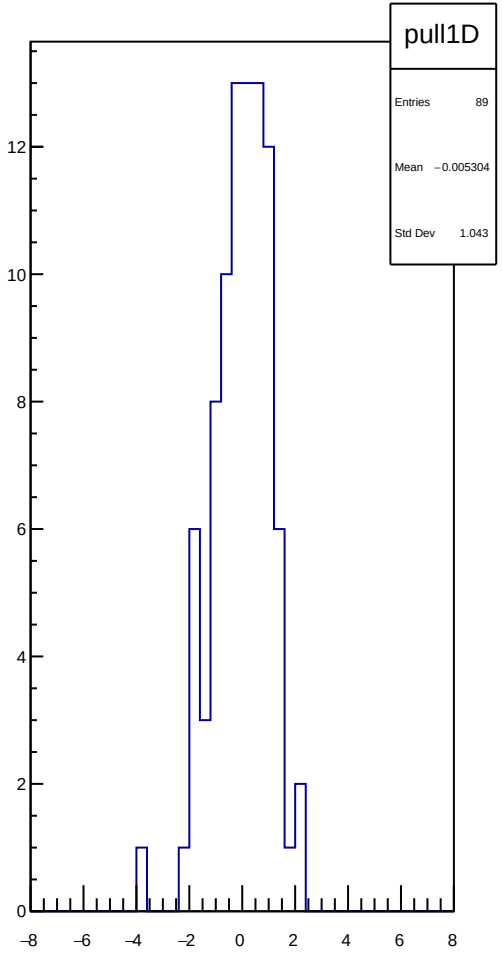

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
1.2
1
0.8
0.6
0.4
0.2
χ² / ndf 6.703e+05 / 88
p0 1.702e−10 ± 1.64e−13

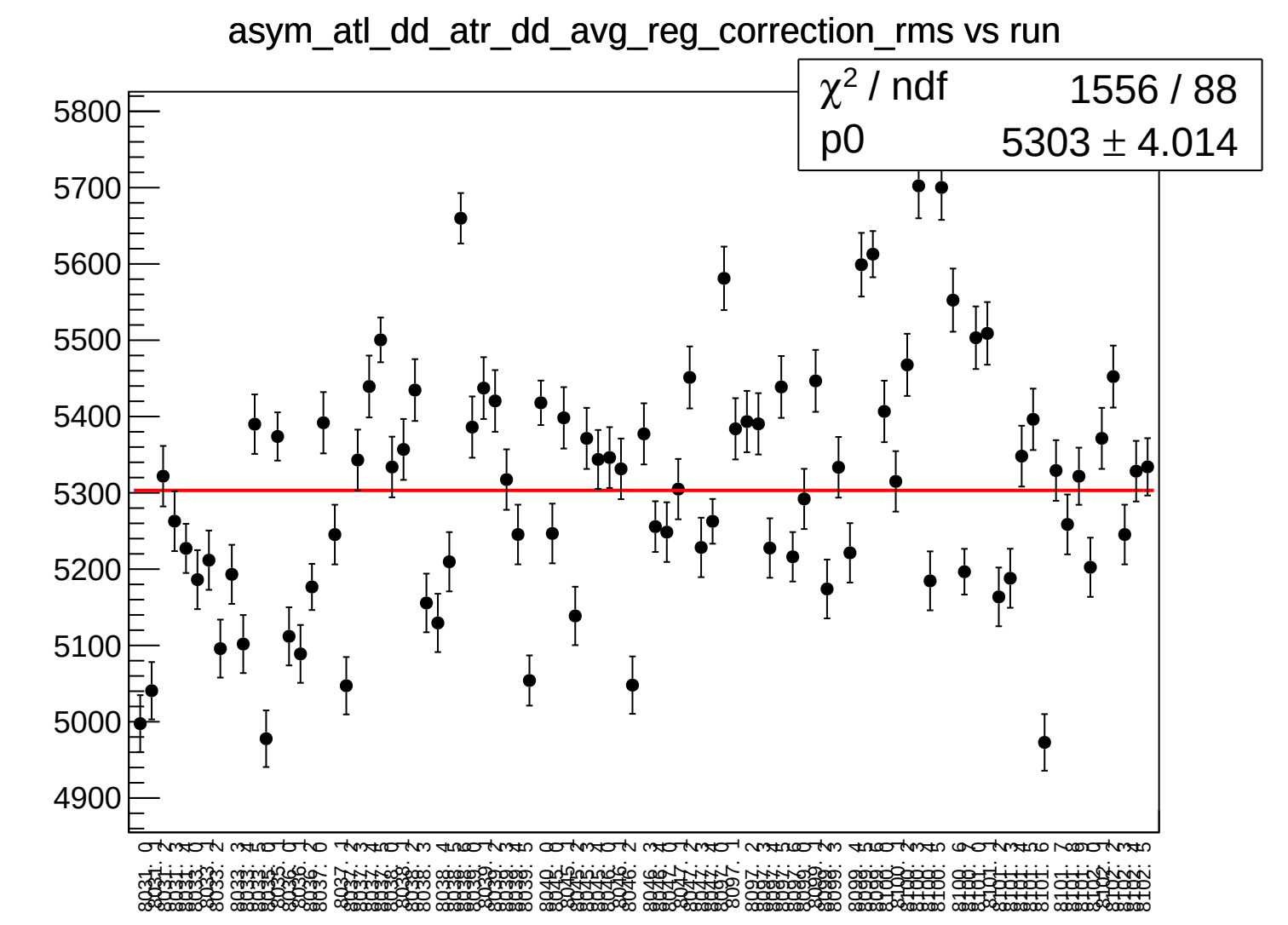

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 103.7 / 88
p0 1217 ± 1337
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 108.4
Std Dev 0
2
1
0
−1
−2

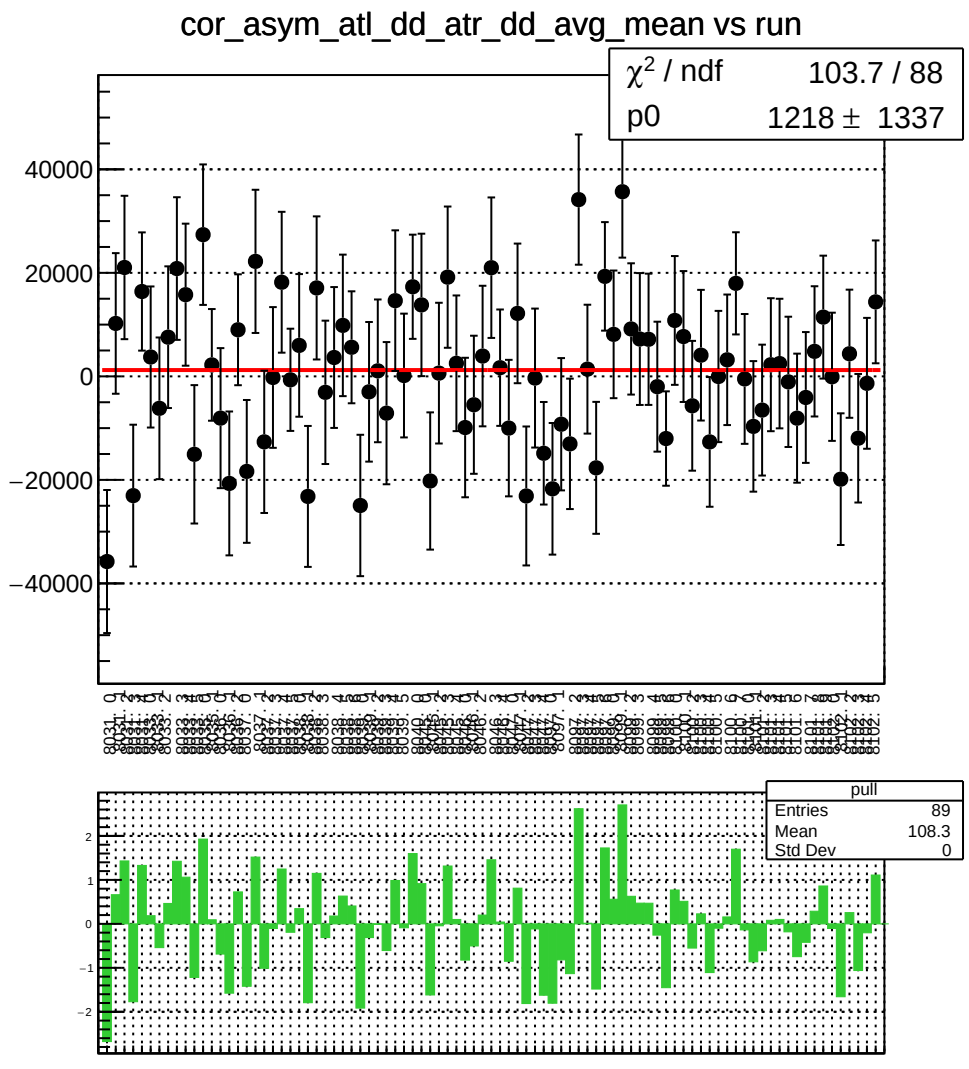

pull1D
Entries 89
Mean −0.00945
Std Dev 1.079
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

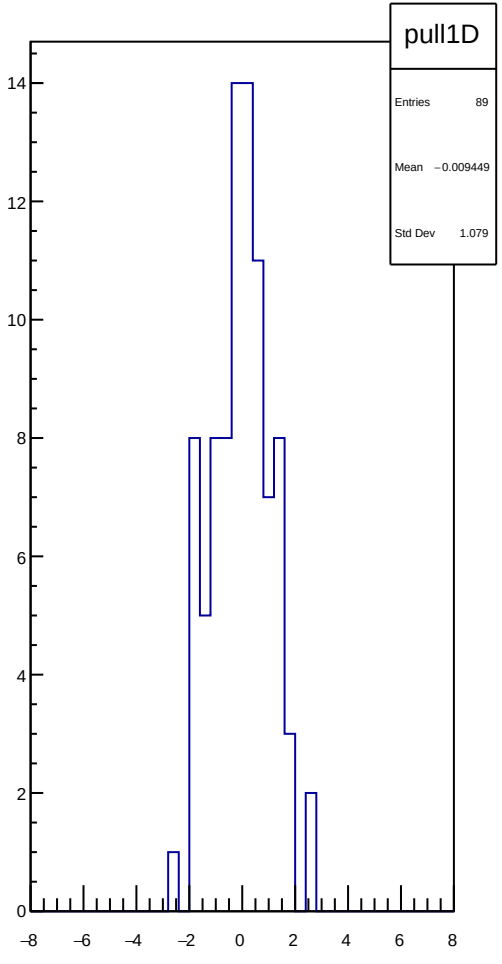

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 2946 / 88
p0 1249 ± 0.9457
1340
1320
1300
1280
1260
1240
1220
1200
1180
1160

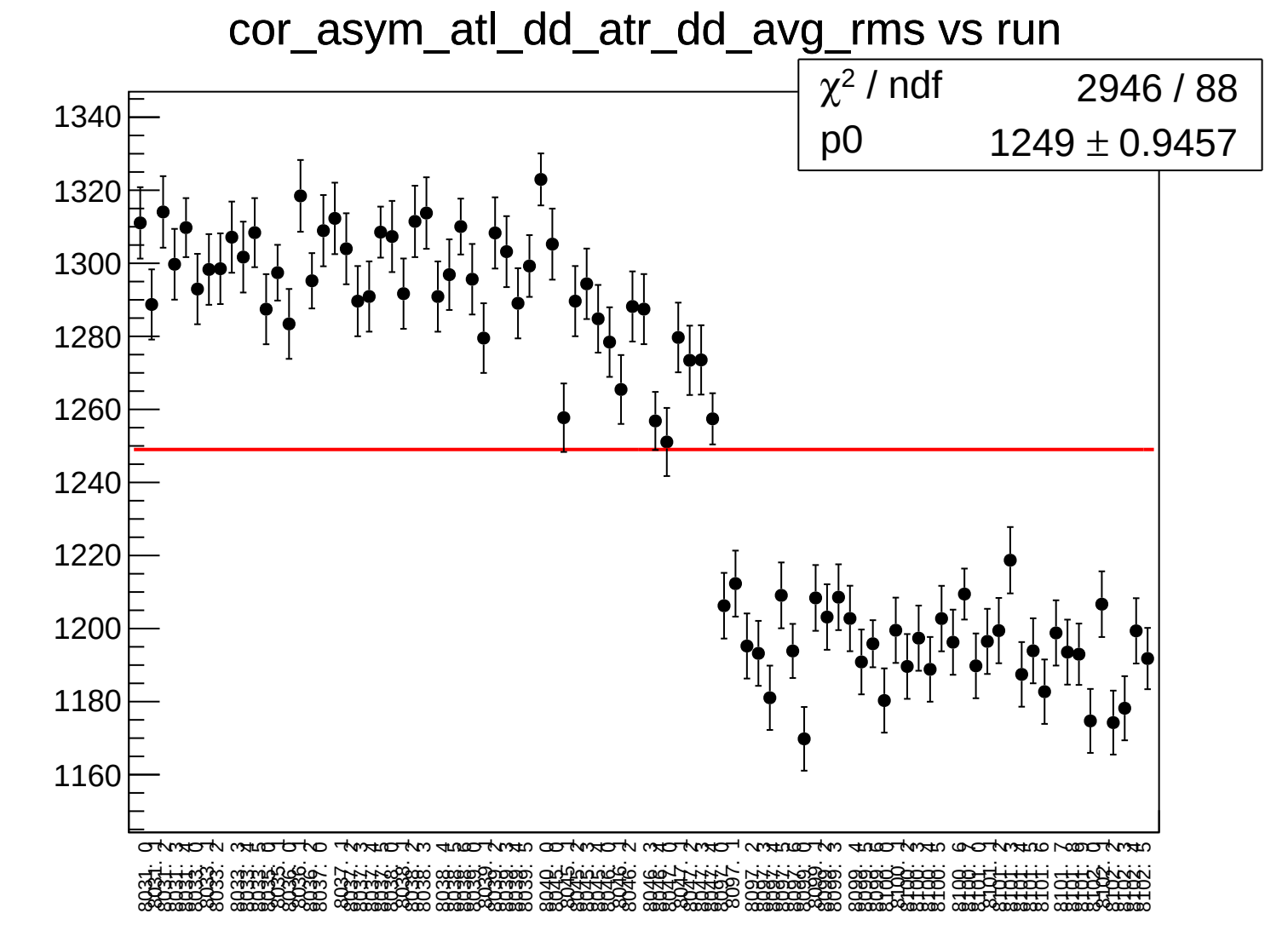

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 96.76 / 88
p0 −2741 ± 5676
200
100
0
−100
−200
−300
pull
Entries 89
Mean −257.5
Std Dev 0
2
1
0
−1
−2
−3

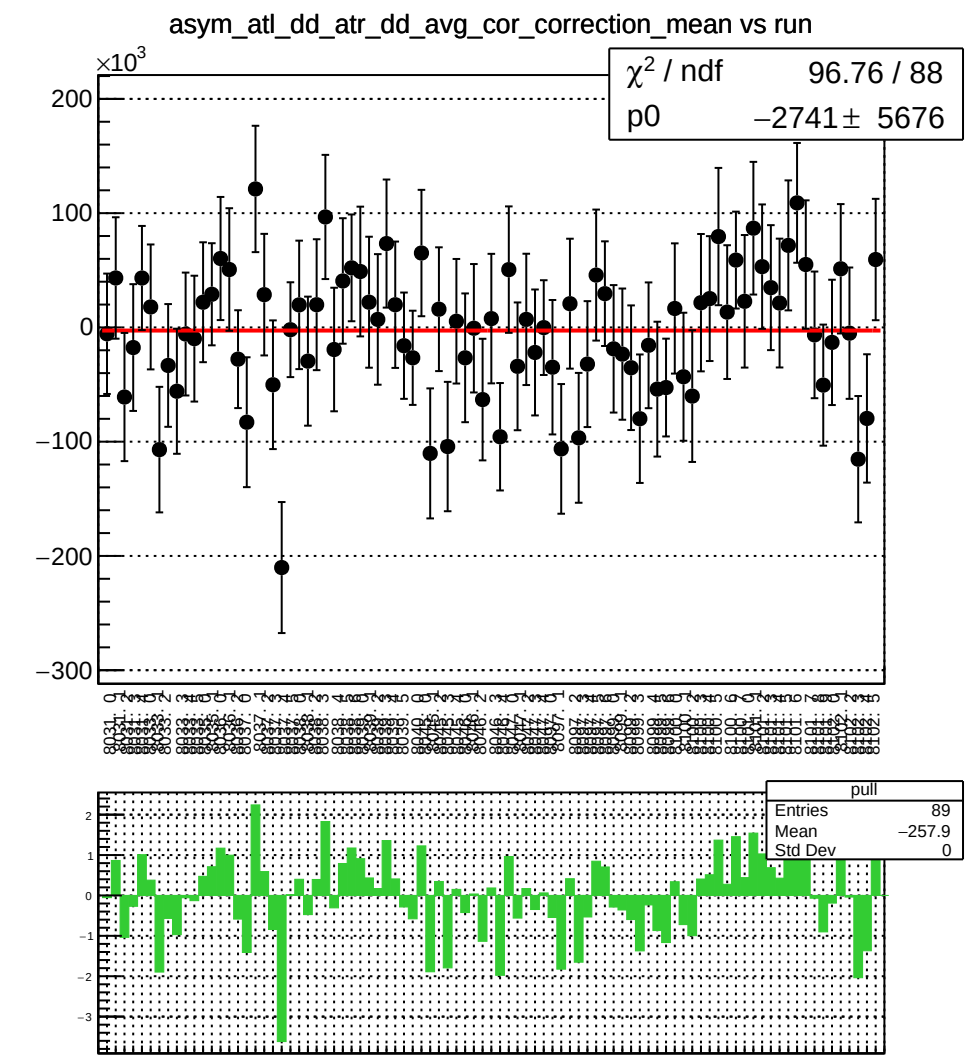

pull1D
Entries 89
Mean −0.005304
Std Dev 1.043
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

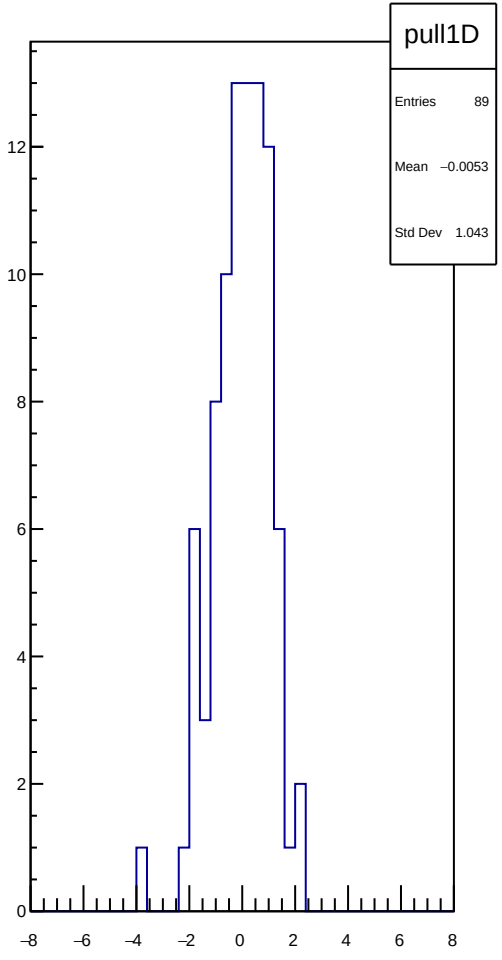

asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 1556 / 88
p0 5303 ± 4.014
5800
5700
5600
5500
5400
5300
5200
5100
5000
4900

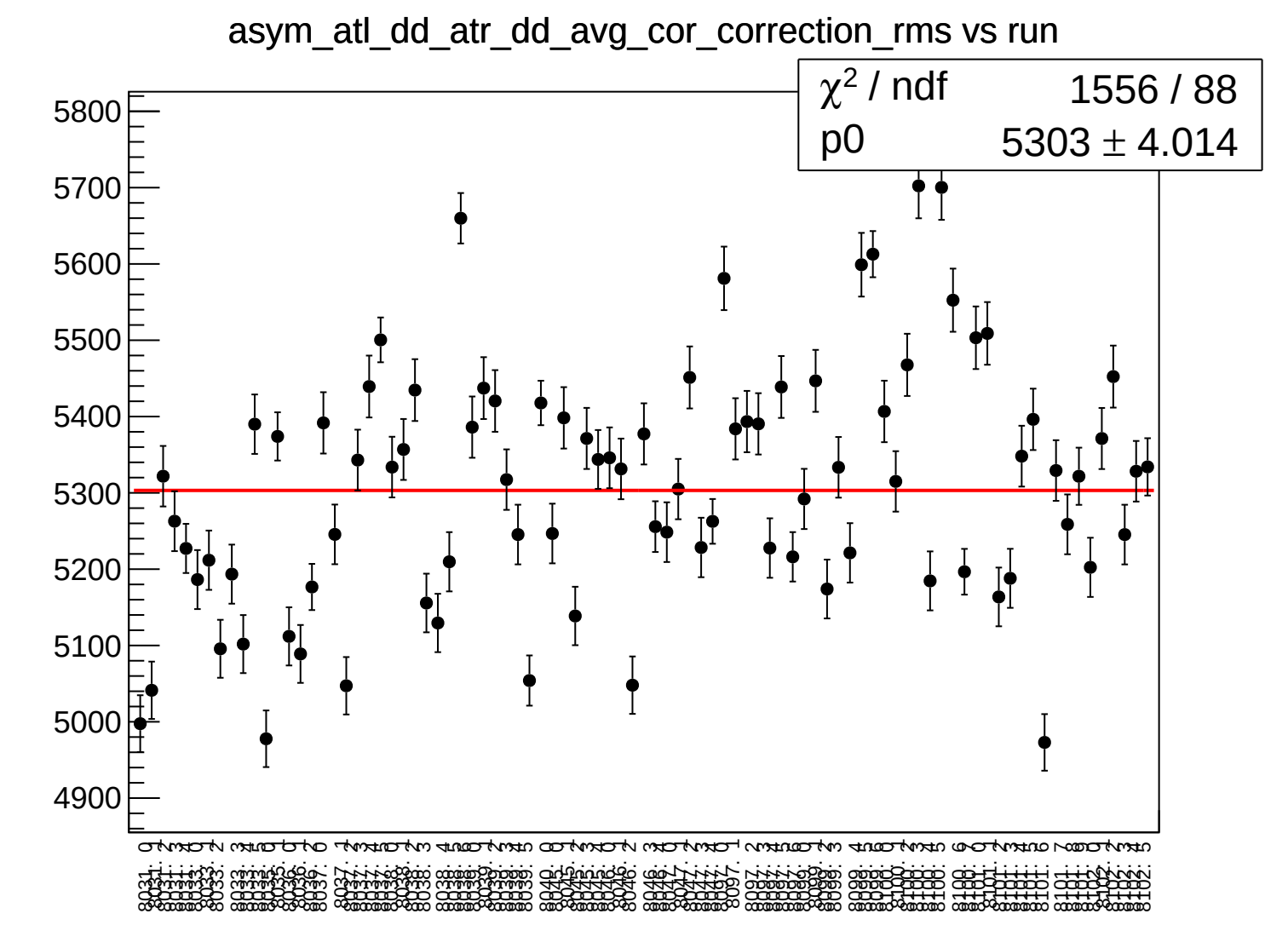

cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 103.7 / 88
p0 1218 ± 1337
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 108.3
Std Dev 0
2
1
0
−1
−2

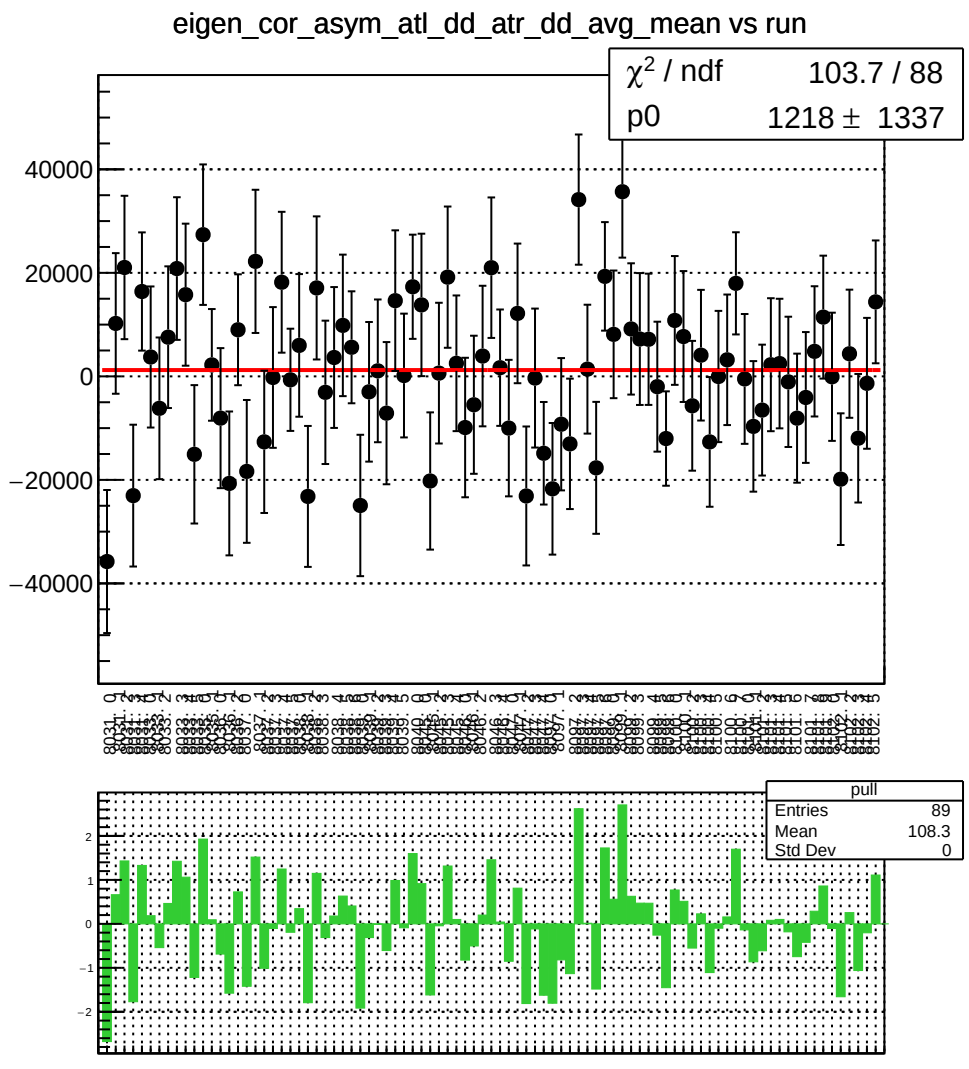

pull1D
Entries 89
Mean −0.009449
Std Dev 1.079
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

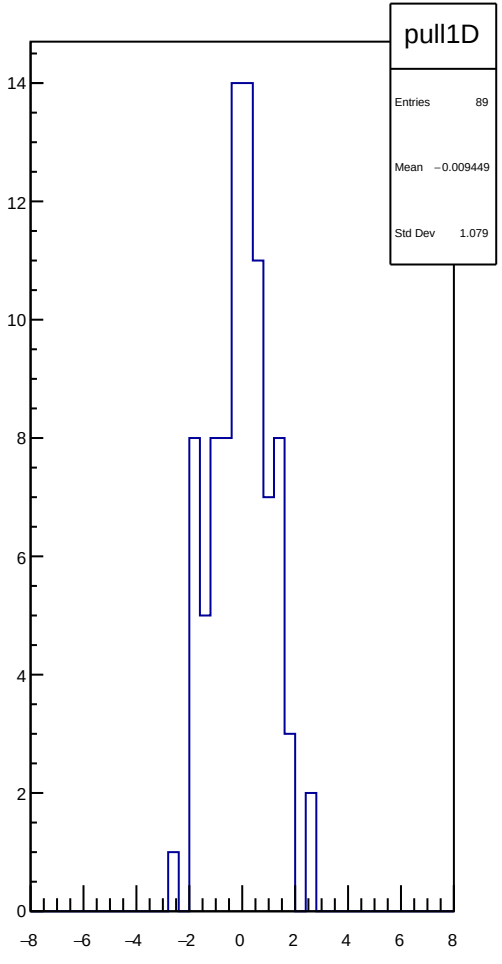

cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 2946 / 88
p0 1249 ± 0.9457
1340
1320
1300
1280
1260
1240
1220
1200
1180
1160

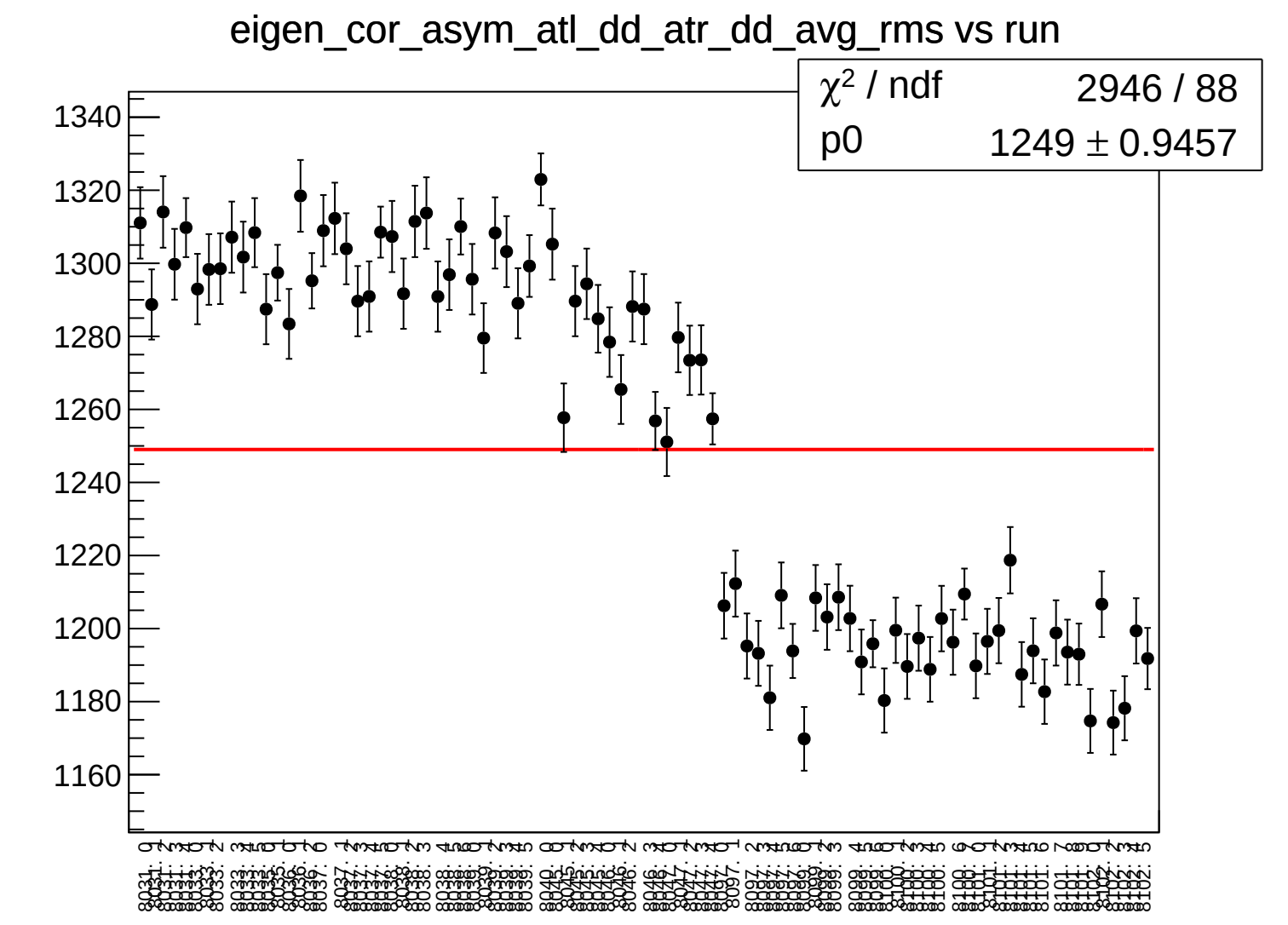

asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 96.76 / 88
p0 −2741 ± 5676
200
100
0
−100
−200
−300
pull
Entries 89
Mean −257.9
Std Dev 0
2
1
0
−1
−2
−3

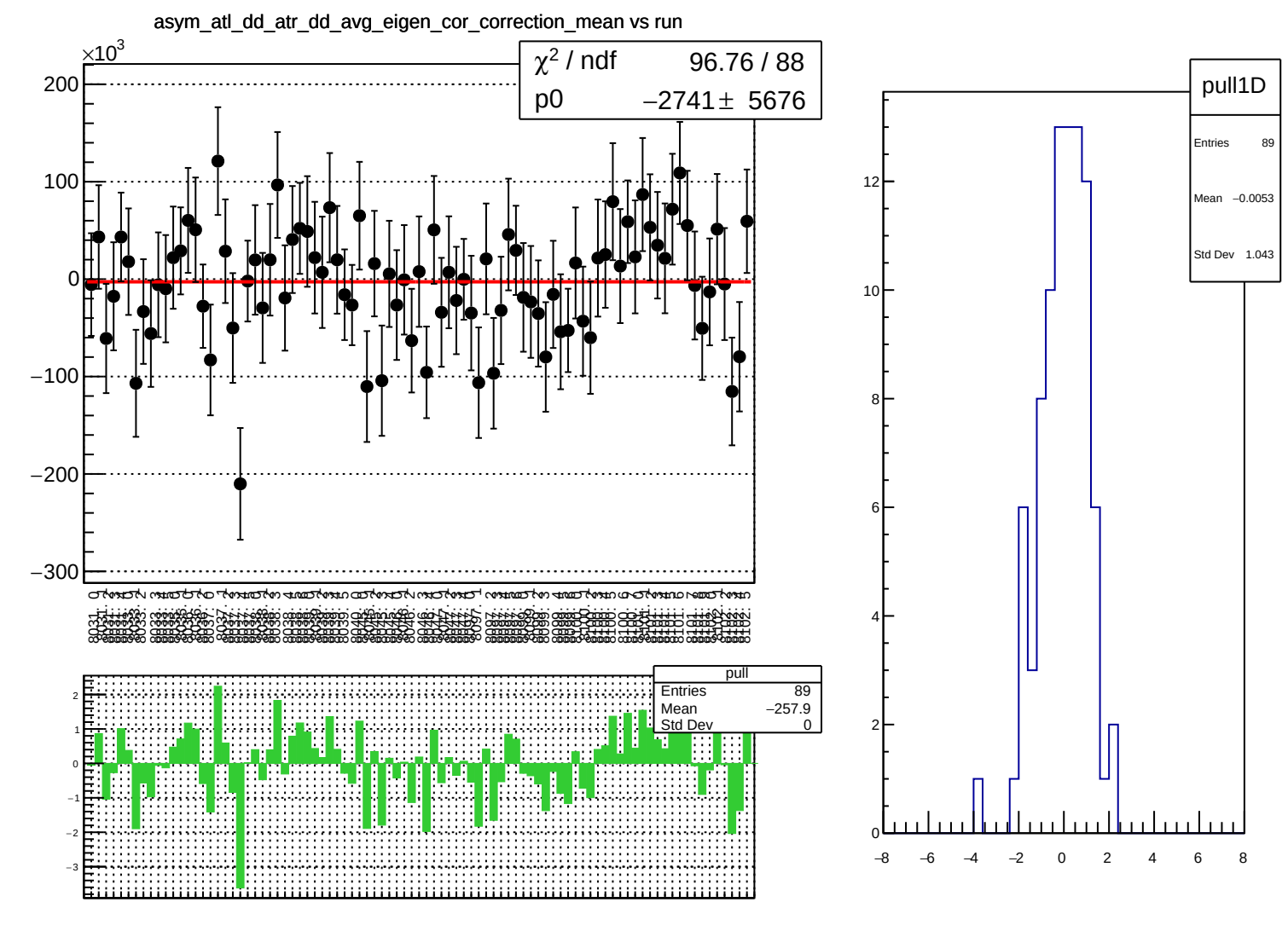

pull1D
Entries 89
Mean −0.0053
Std Dev 1.043
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

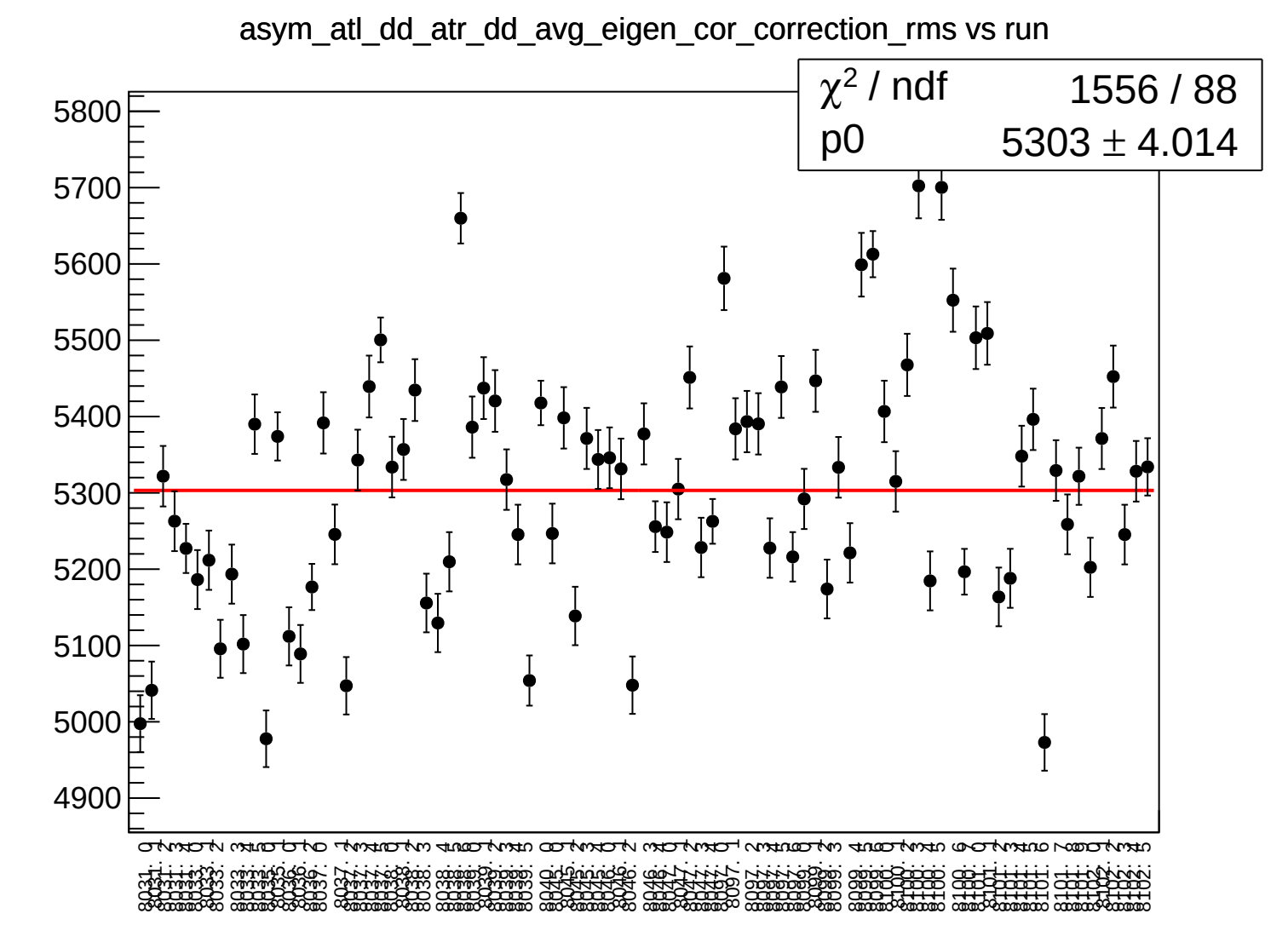

asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
$\chi^2$ / ndf 1556 / 88
p0 5303 ± 4.014
5800
5700
5600
5500
5400
5300
5200
5100
5000
4900

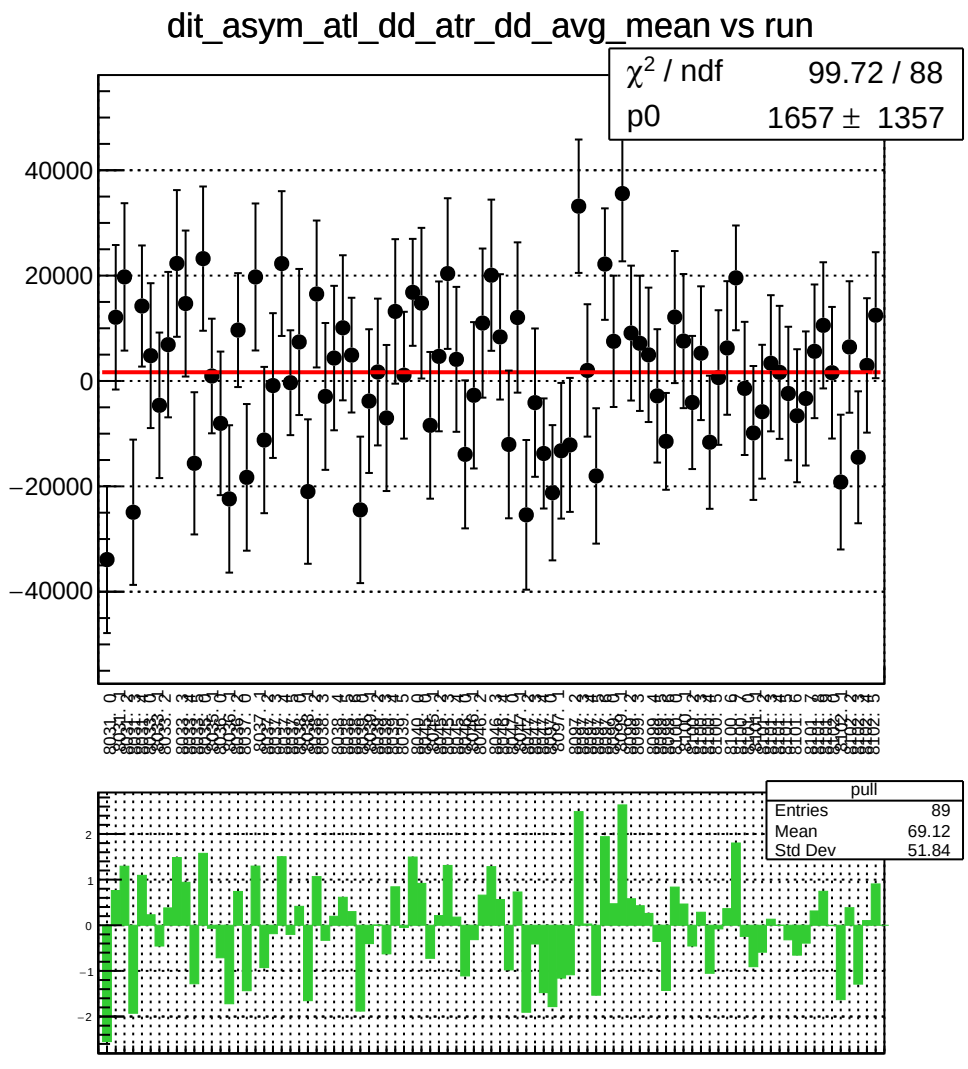

eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 103.7 / 88
p0 1218 ± 1337
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 108.3
Std Dev 0
2
1
0
−1
−2

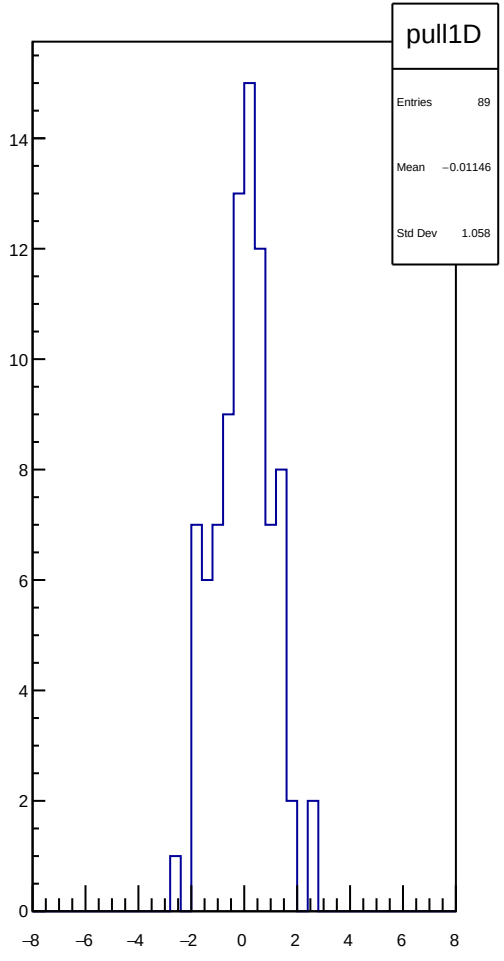

pull1D
Entries 89
Mean −0.009449
Std Dev 1.079
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

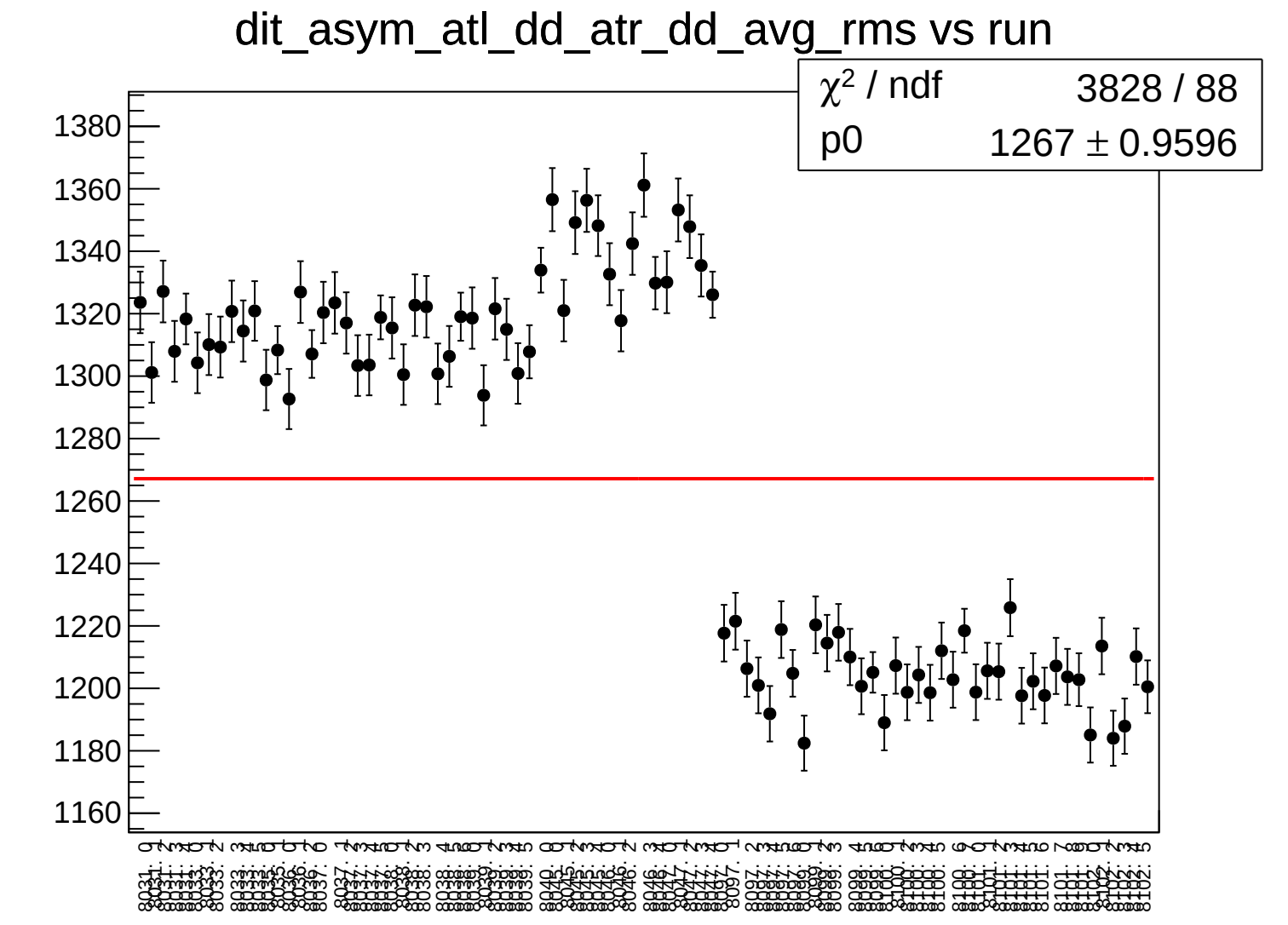

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 2946 / 88
p0 1249 ± 0.9457
1340
1320
1300
1280
1260
1240
1220
1200
1180
1160

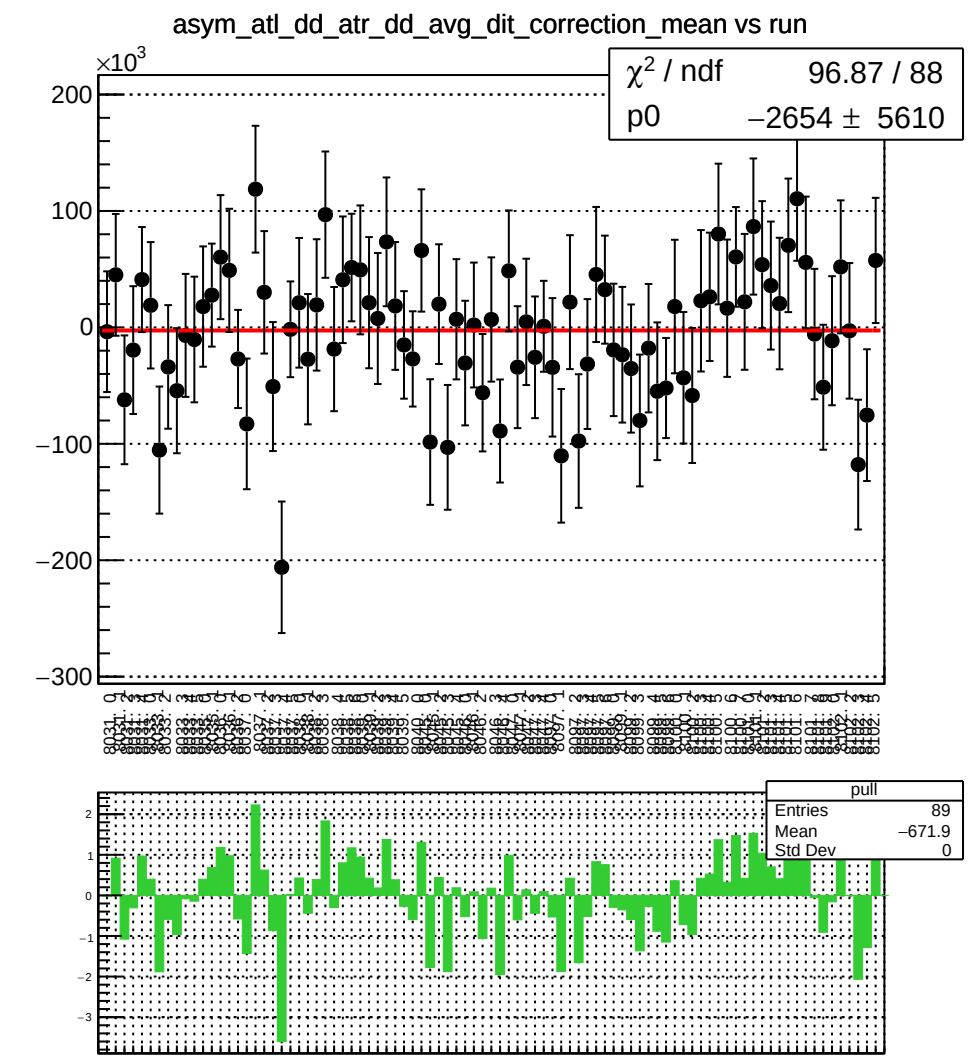

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 96.76 / 88
p0 −2741 ± 5676
200
100
0
−100
−200
−300
pull
Entries 89
Mean −257.9
Std Dev 0
pull1D
Entries 89
Mean −0.0053
Std Dev 1.043
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

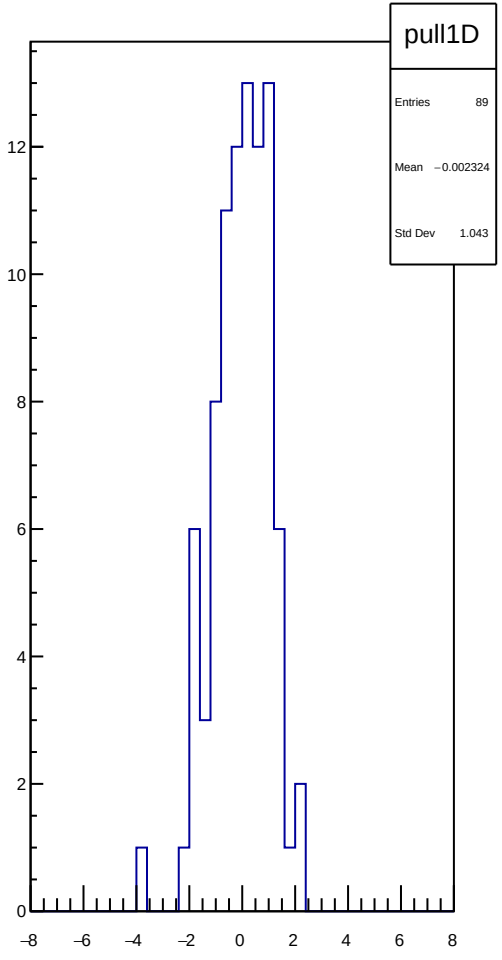

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1556 / 88
p0 5303 ± 4.014
5800
5700
5600
5500
5400
5300
5200
5100
5000
4900

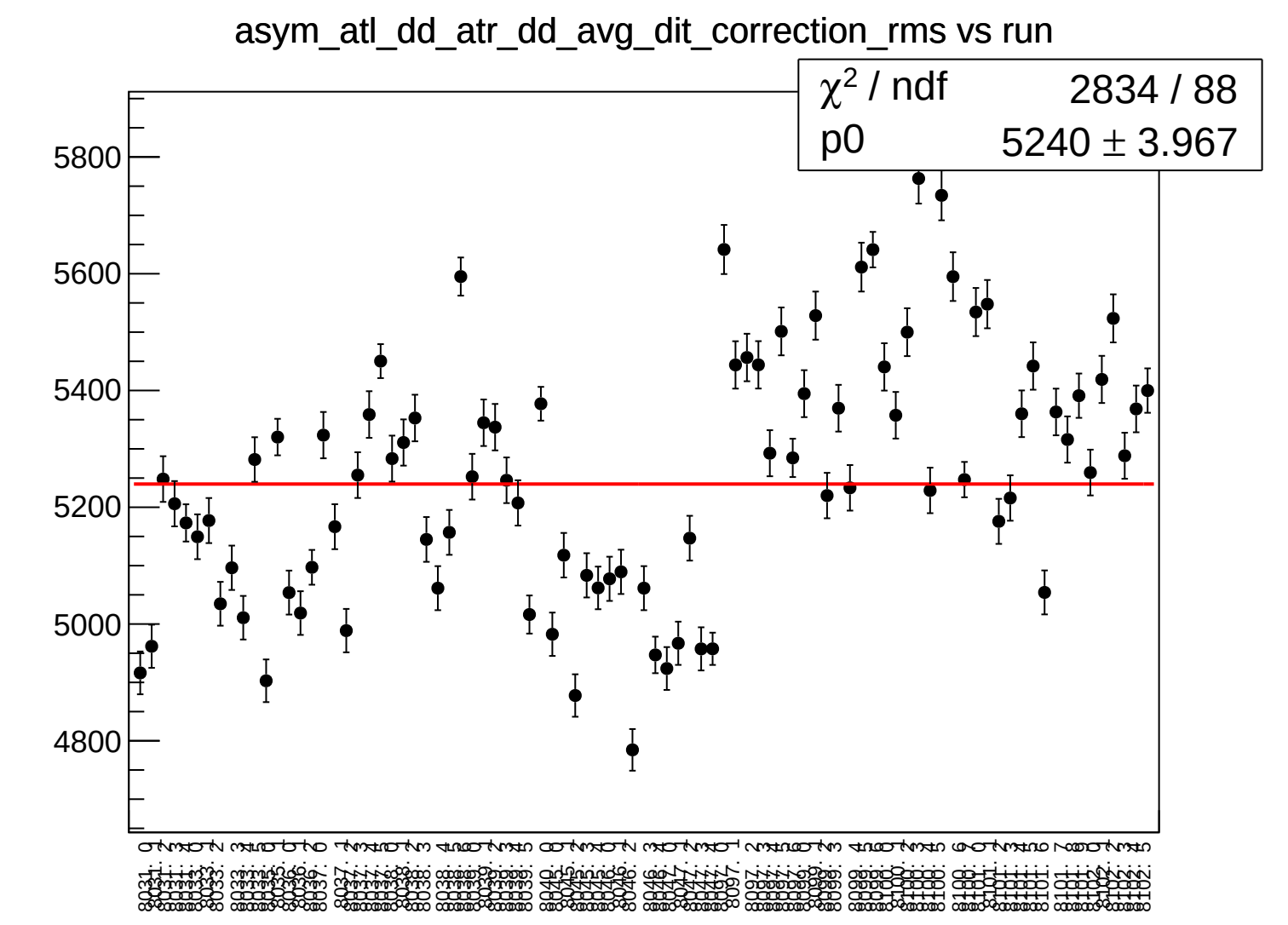

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 99.72 / 88
p0 1657 ± 1357
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 69.12
Std Dev 51.84
2
1
0
−1
−2

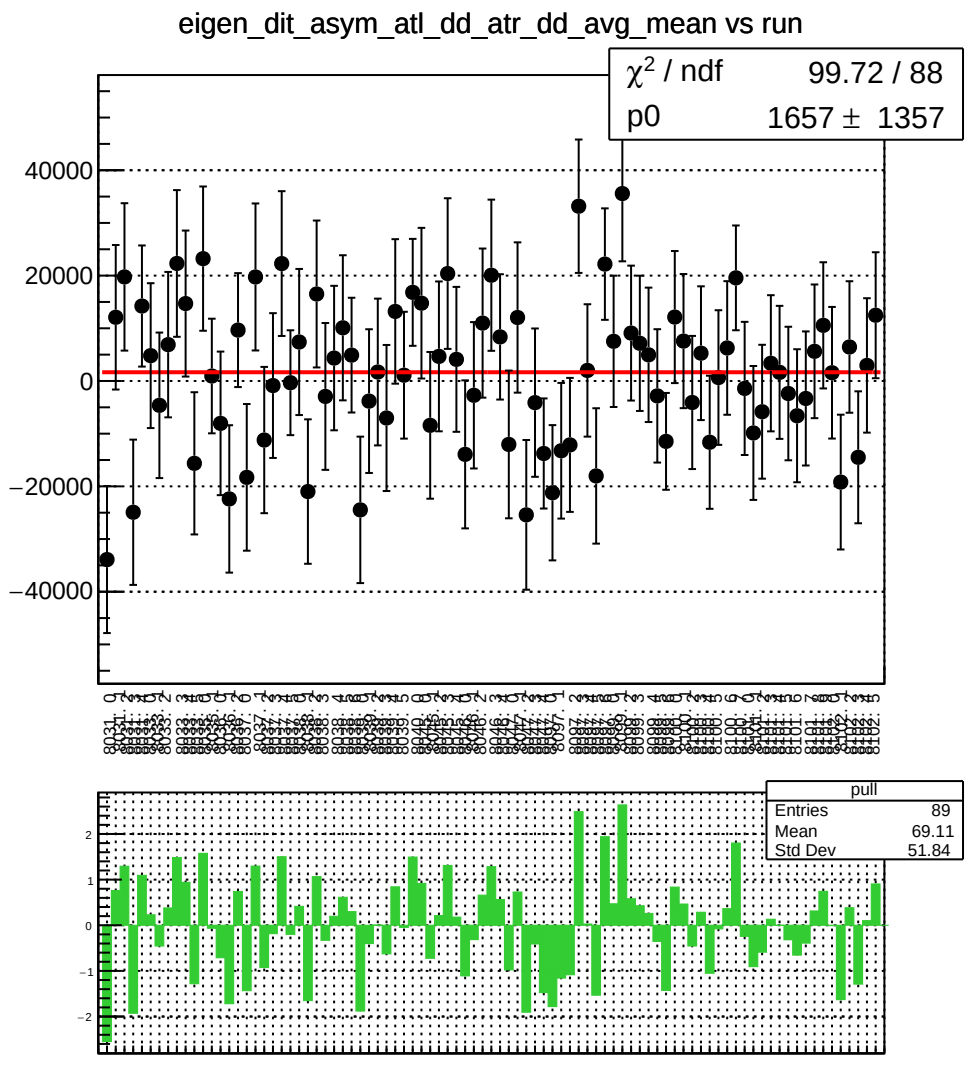

pull1D
Entries 89
Mean −0.01146
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

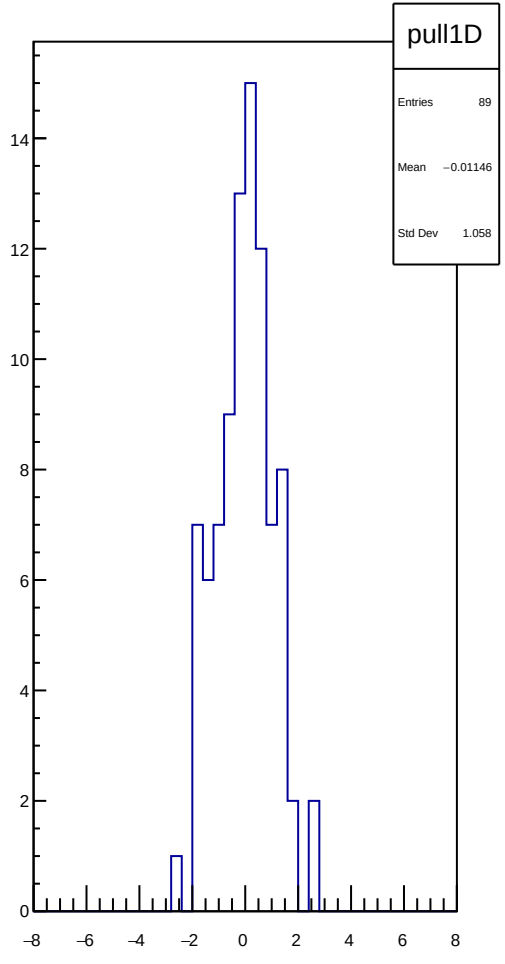

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 3828 / 88
p0 1267 ± 0.9596
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200
1180
1160

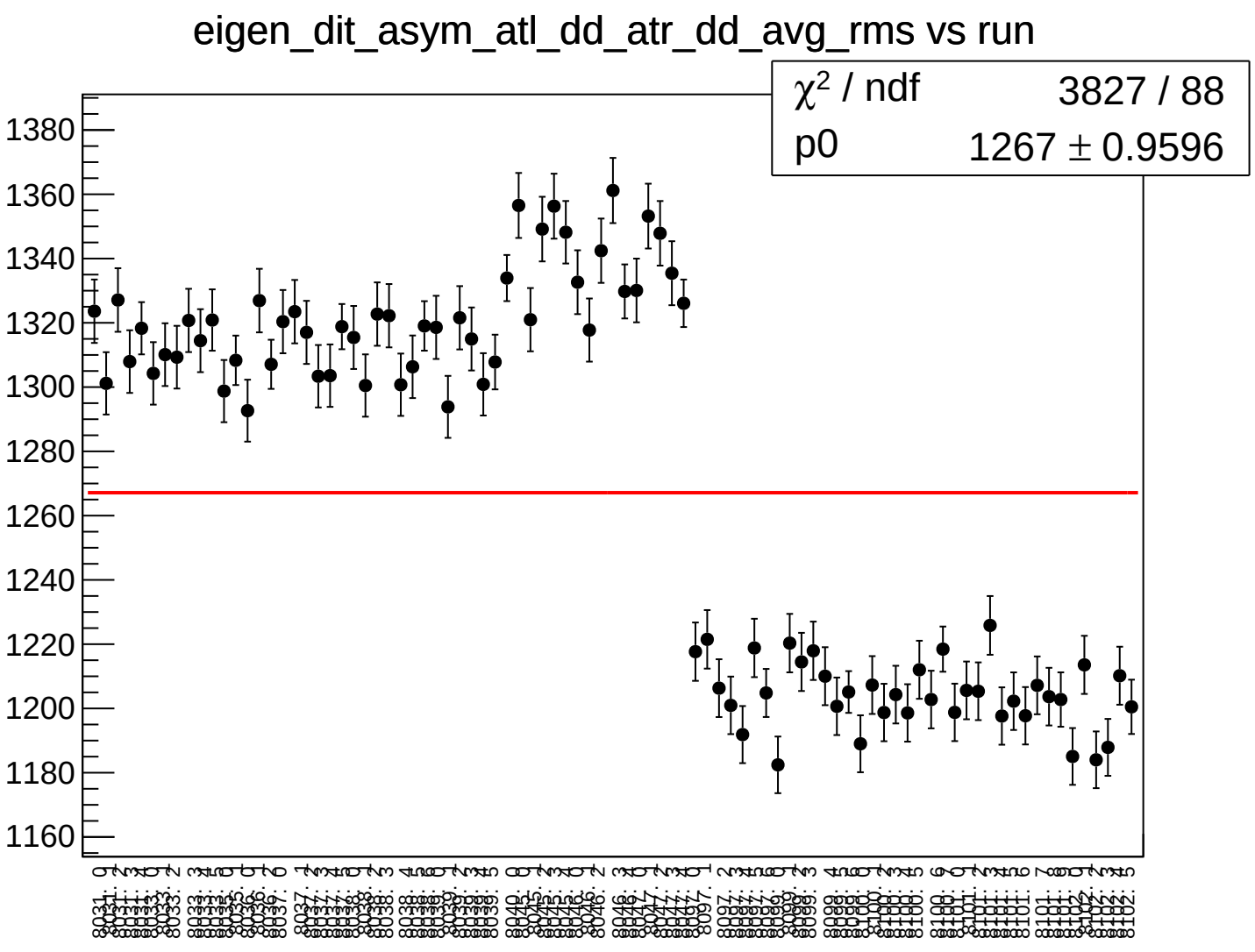

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 96.87 / 88
p0 −2654 ± 5610
200
100
0
−100
−200
−300
pull
Entries 89
Mean −671.9
Std Dev 0
2
1
0
−1
−2
−3

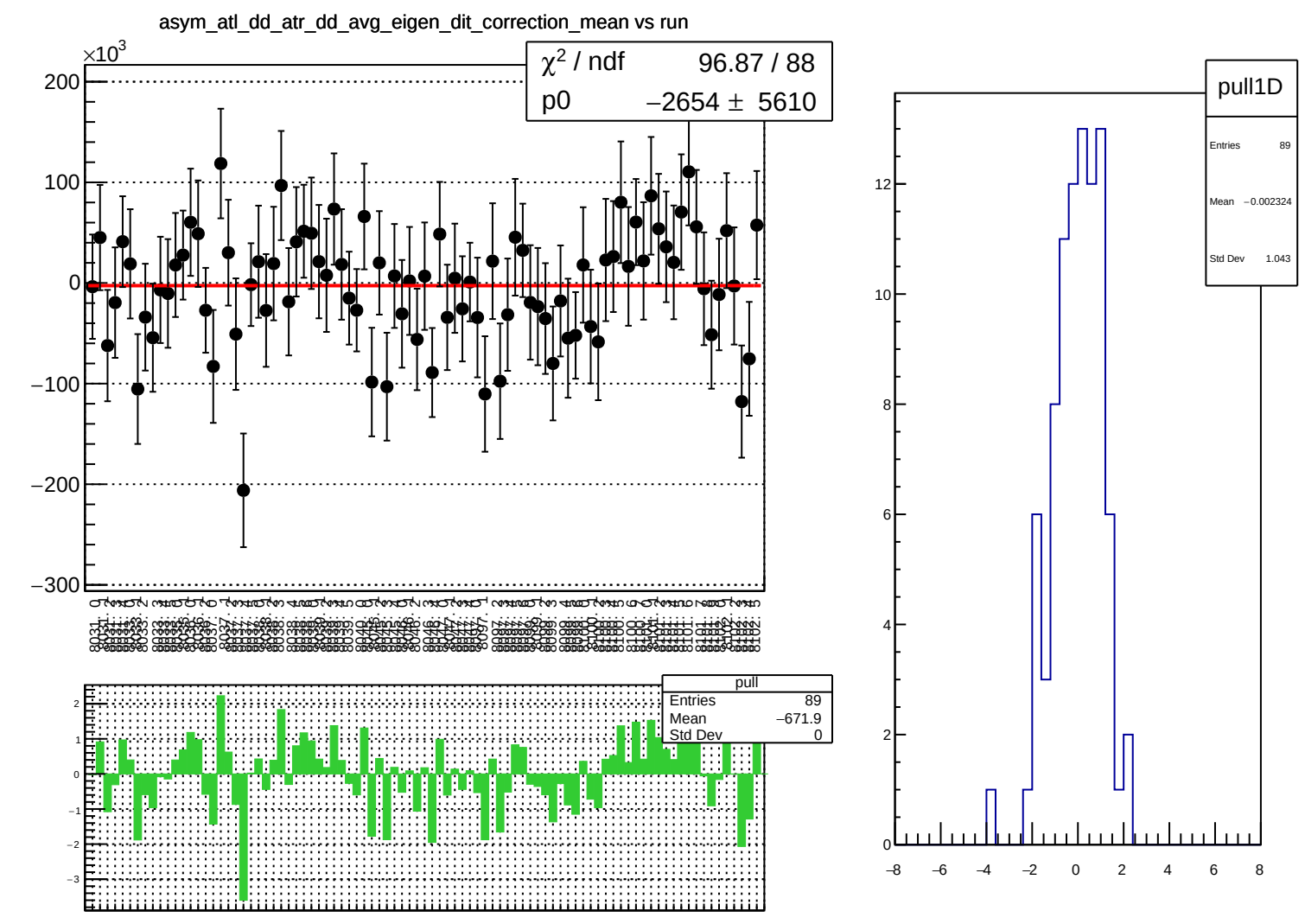

pull1D
Entries 89
Mean −0.002324
Std Dev 1.043
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

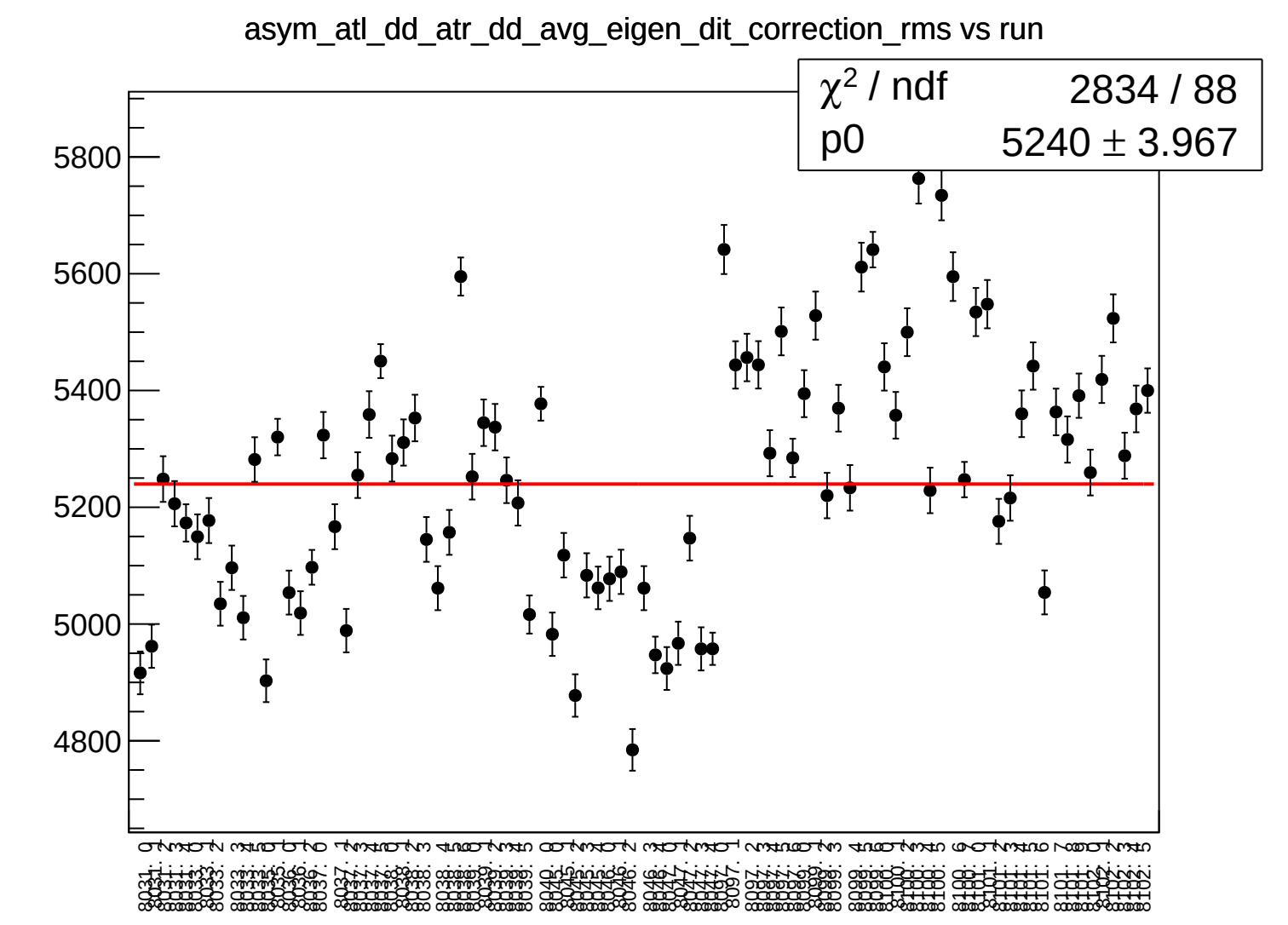

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 2834 / 88
p0 5240 ± 3.967
5800
5600
5400
5200
5000
4800

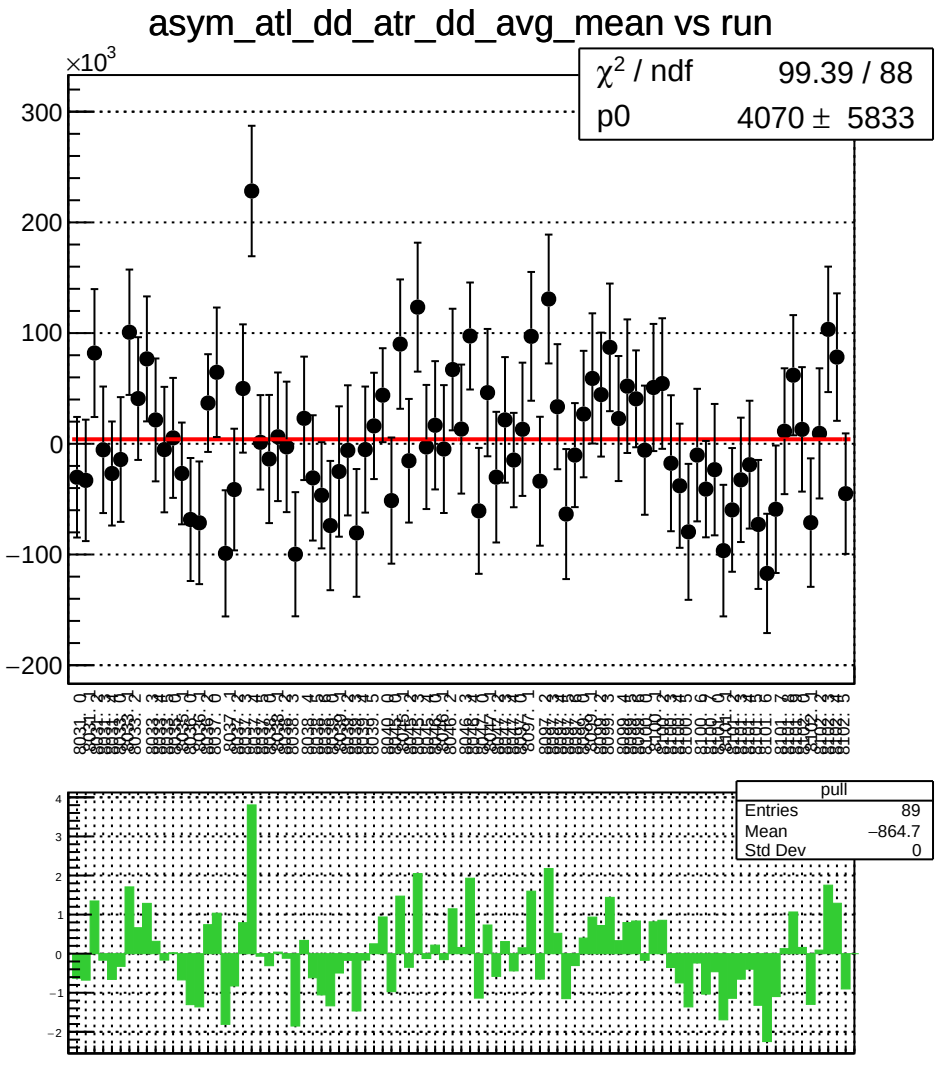

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 99.72 / 88
p0 1657 ± 1357
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 69.11
Std Dev 51.84
2
1
0
−1
−2

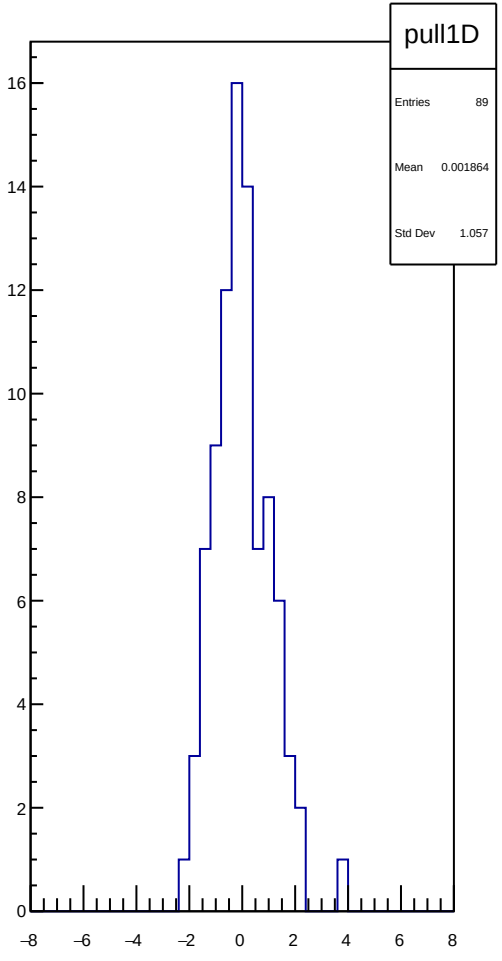

pull1D
Entries 89
Mean −0.01146
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

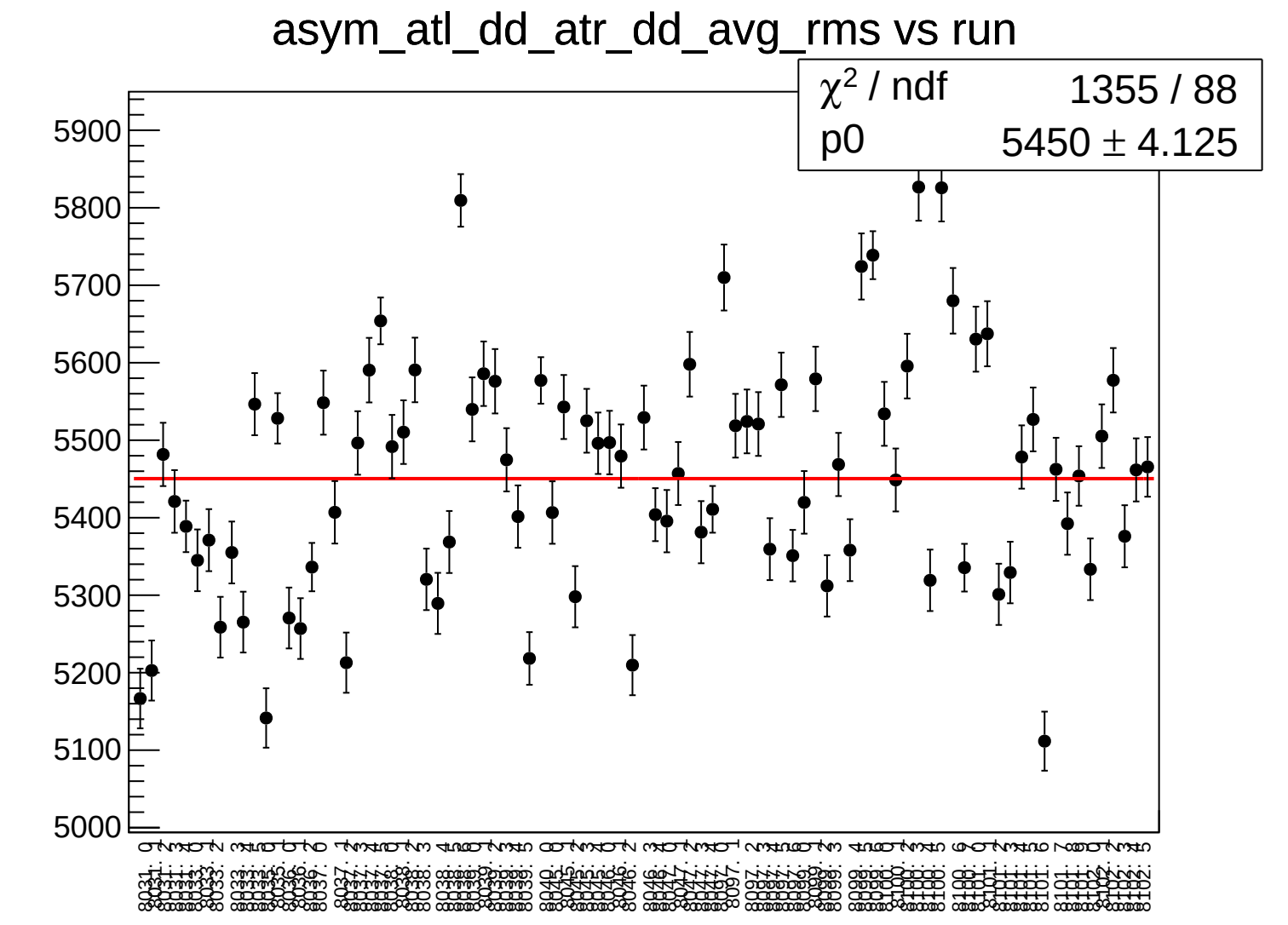

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 3827 / 88
p0 1267 ± 0.9596
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200
1180
1160

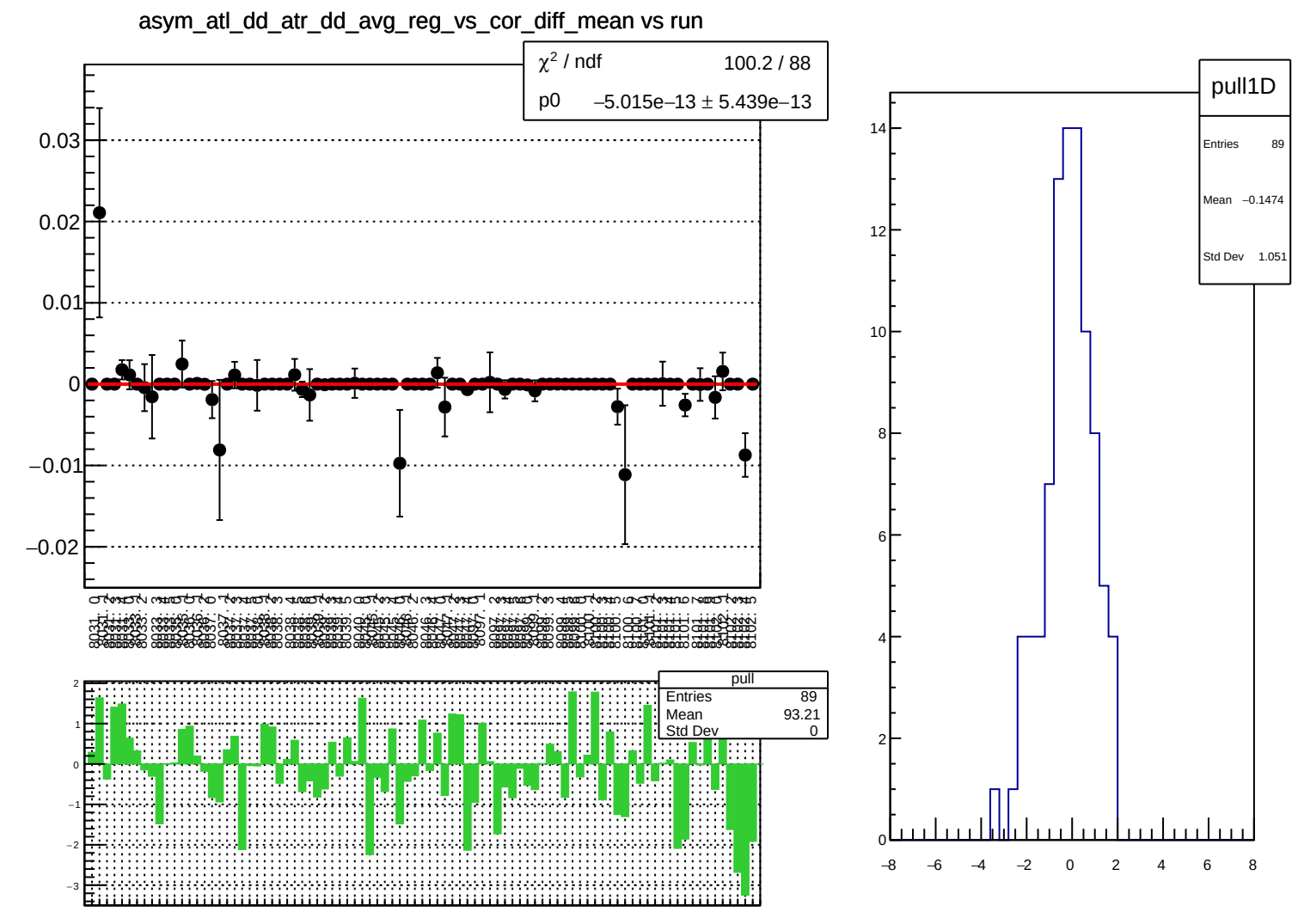

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.87 / 88
p0 −2654 ± 5610
200
100
0
−100
−200
−300
pull
Entries 89
Mean −671.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.002324
Std Dev 1.043
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

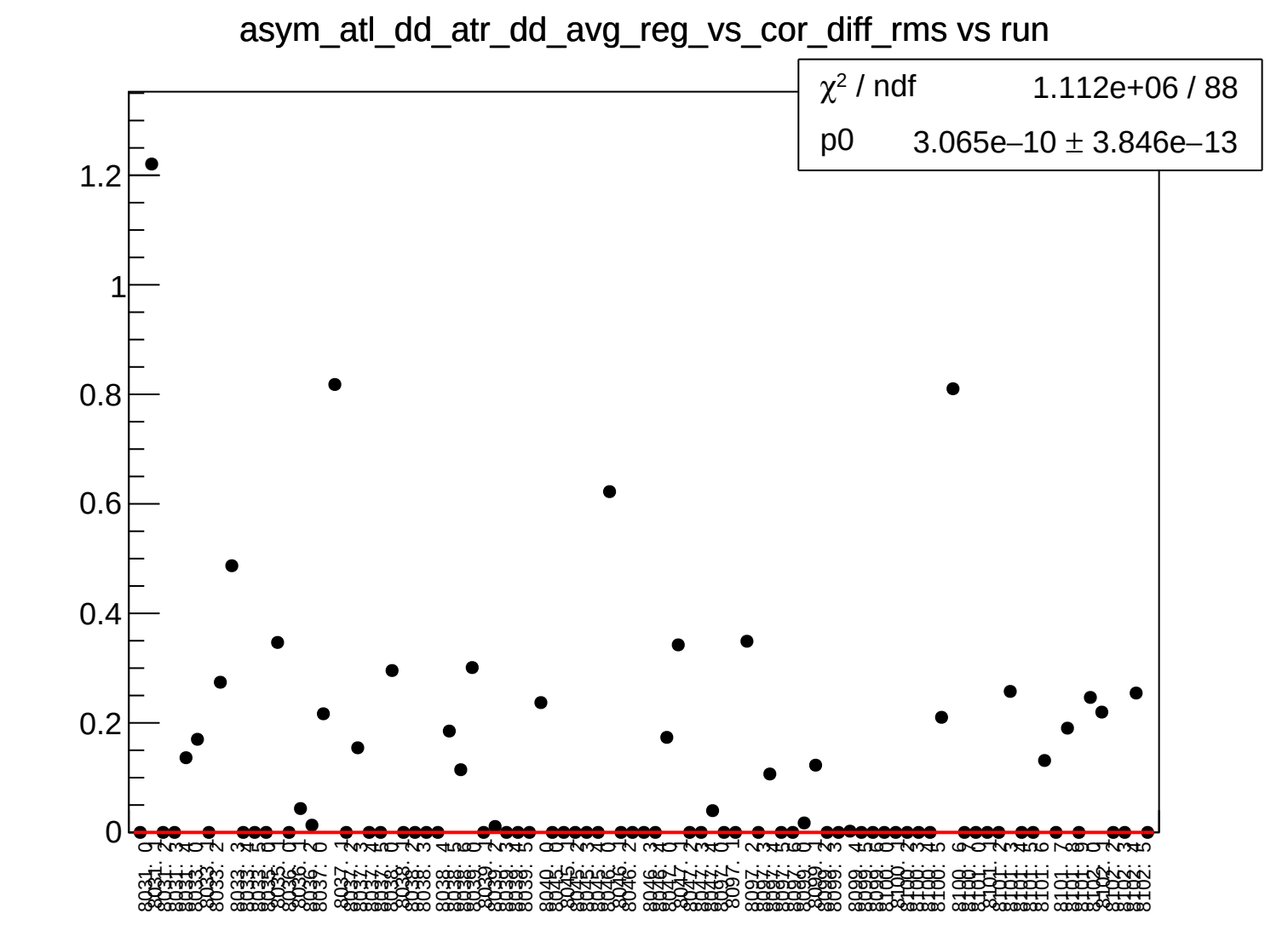

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2834 / 88
p0 5240 ± 3.967
5800
5600
5400
5200
5000
4800

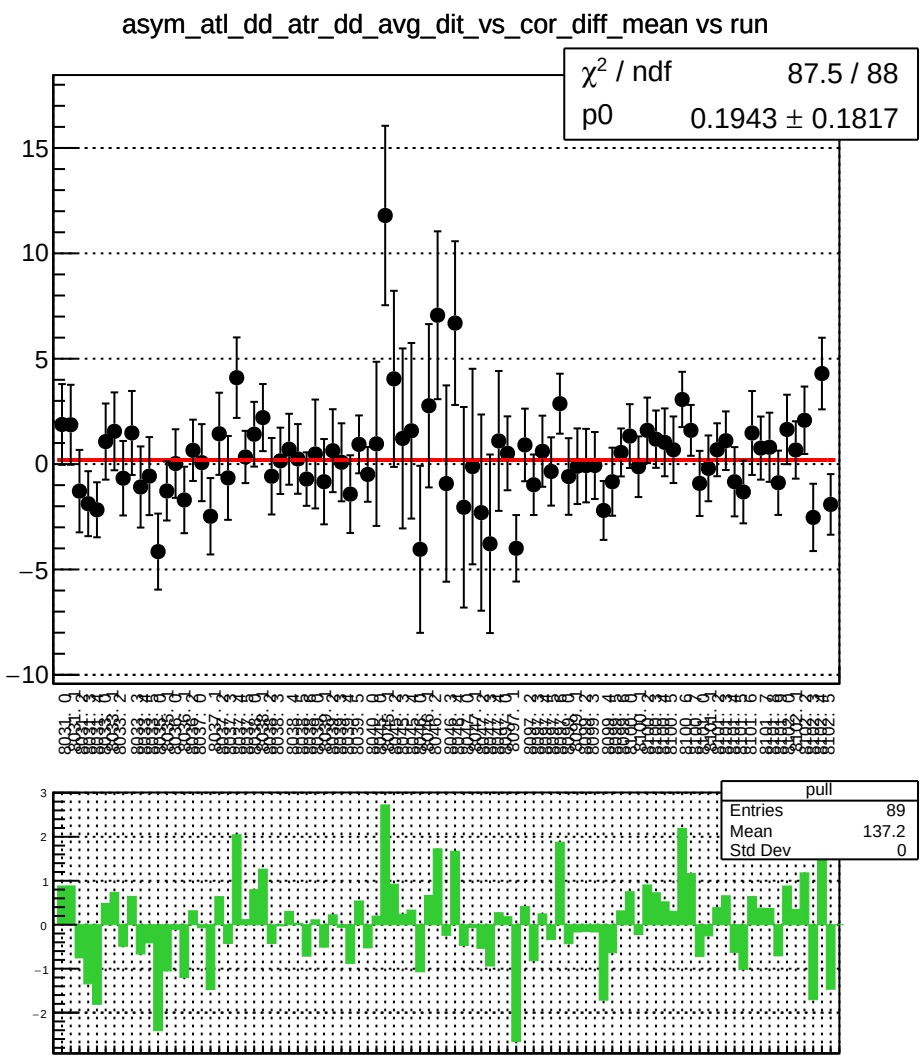

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 99.39 / 88
p0 4070 ± 5833
pull
Entries 89
Mean −864.7
Std Dev 0

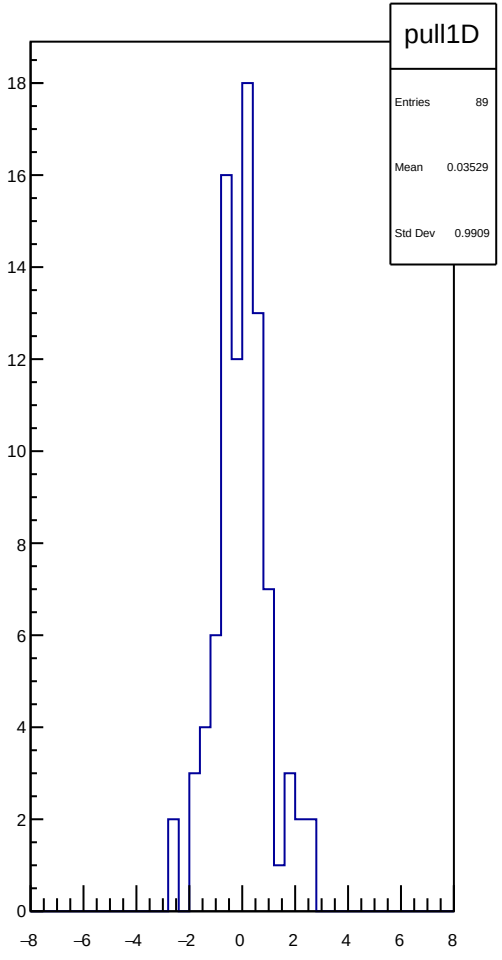

pull1D
Entries 89
Mean 0.001864
Std Dev 1.057

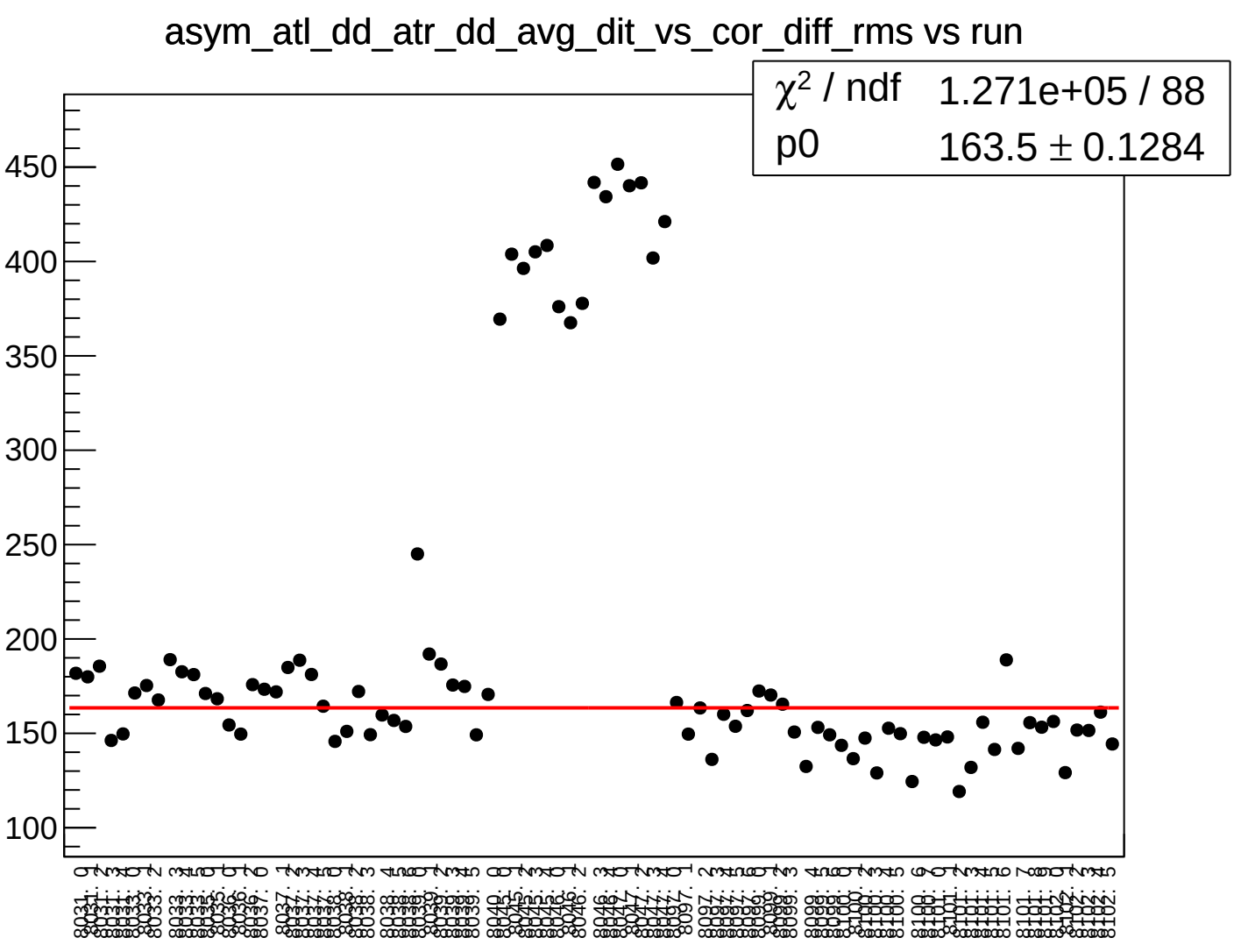

asym_atl_dd_atr_dd_avg_rms vs run
$\chi^2$ / ndf 1355 / 88
p0 5450 ± 4.125
5900
5800
5700
5600
5500
5400
5300
5200
5100
5000

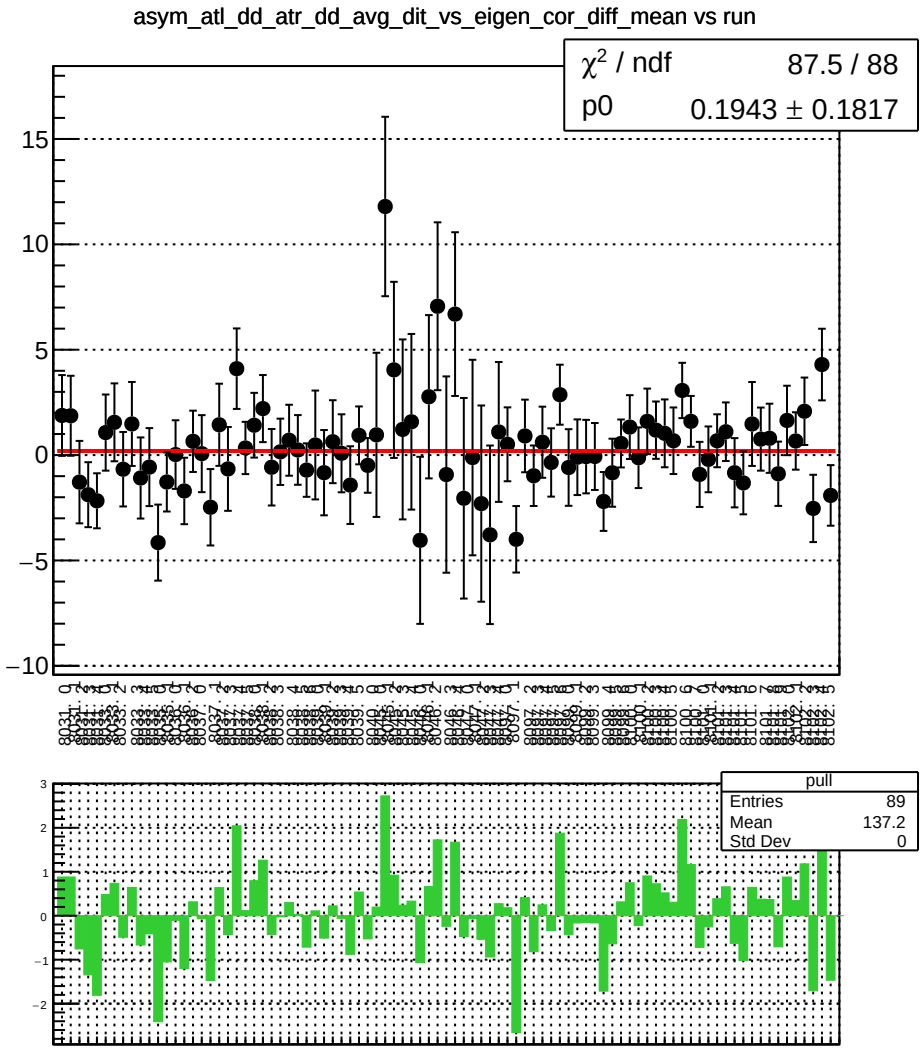

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 100.2 / 88
p0 −5.015e−13 ± 5.439e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 89
Mean 93.21
Std Dev 0
pull1D
Entries 89
Mean −0.1474
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

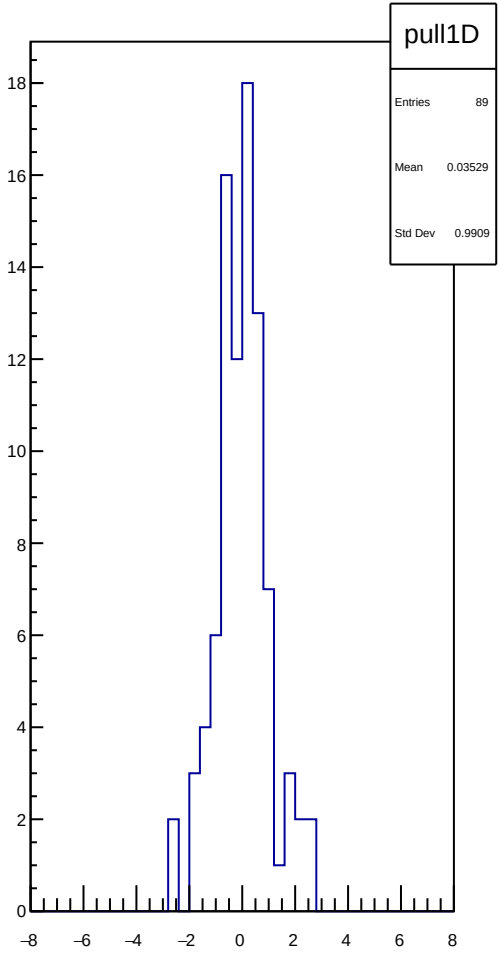

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.112e+06 / 88
p0 3.065e−10 ± 3.846e−13
1.2
1
0.8
0.6
0.4
0.2
0

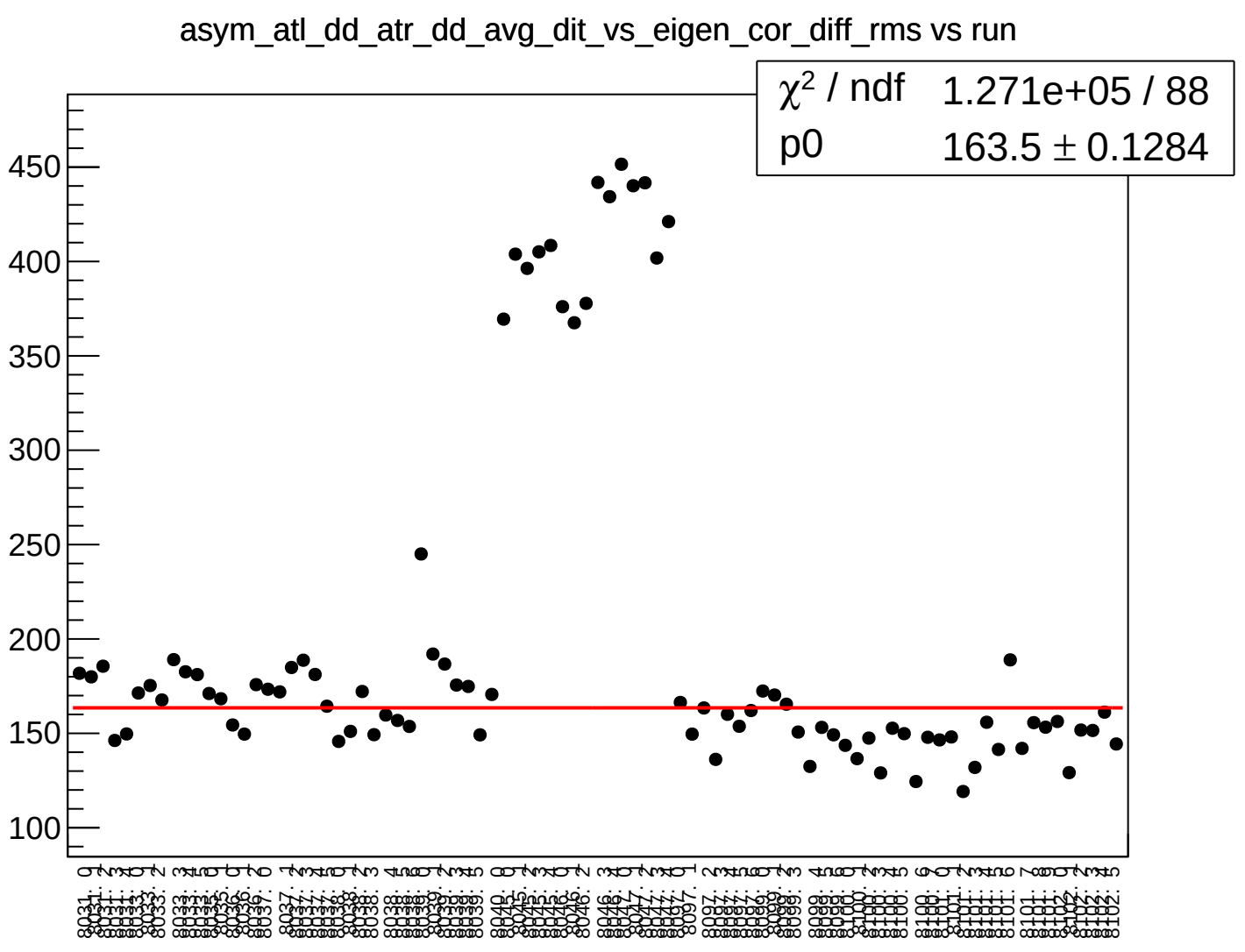

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 87.5 / 88
p0 0.1943 ± 0.1817
pull
Entries 89
Mean 137.2
Std Dev 0

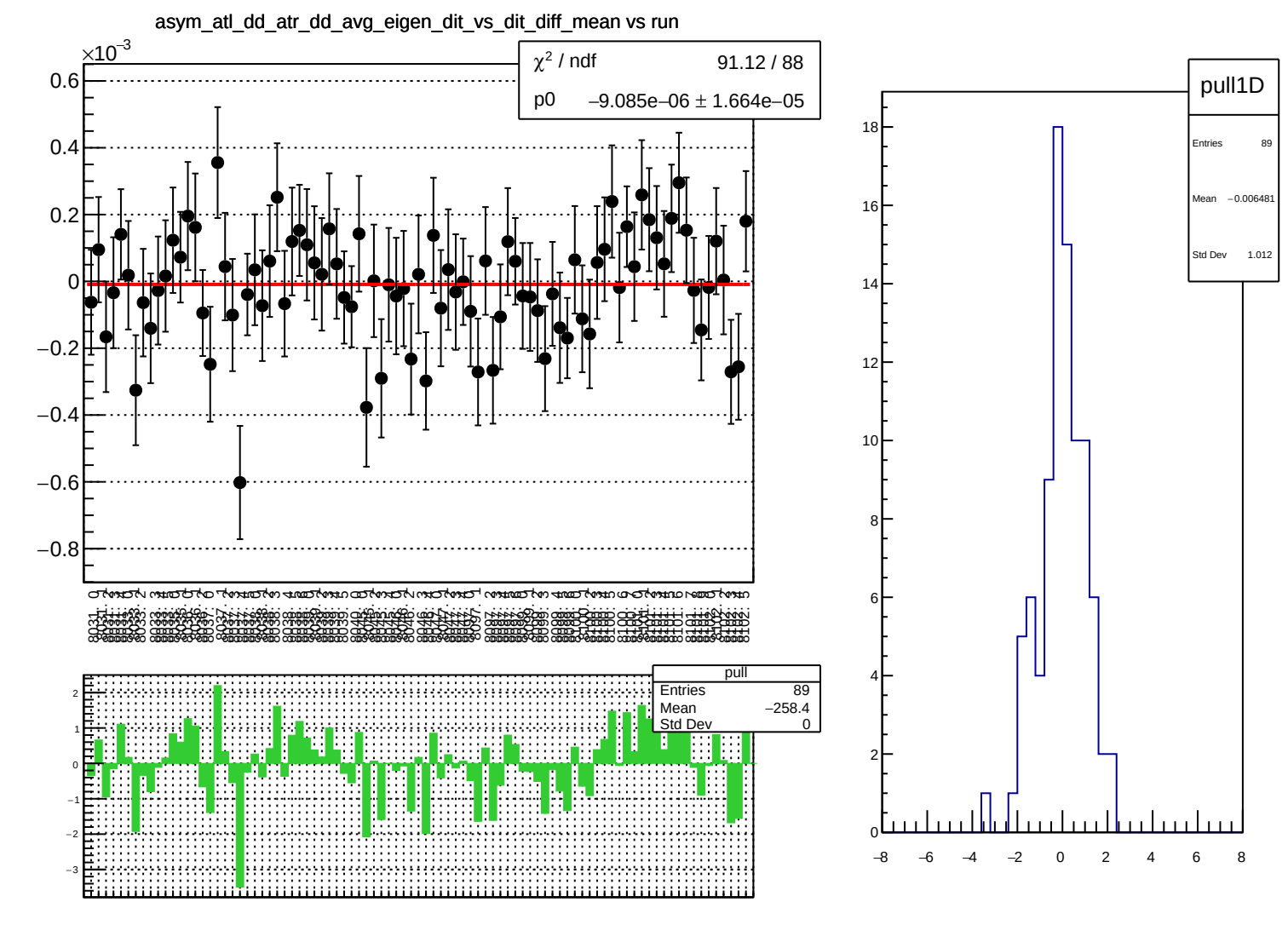

pull1D
Entries 89
Mean 0.03529
Std Dev 0.9909

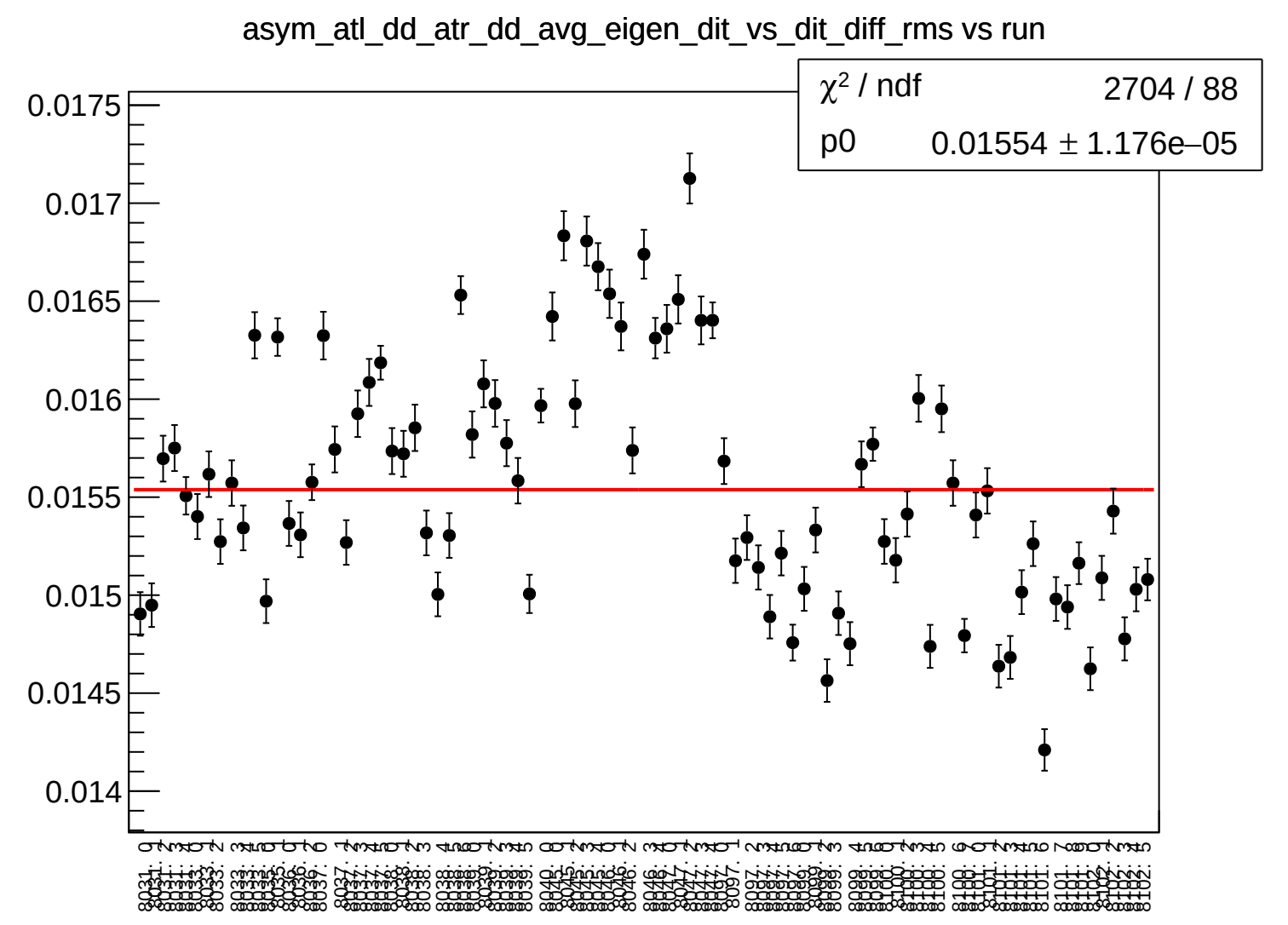

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.271e+05 / 88
p0 163.5 ± 0.1284
450
400
350
300
250
200
150
100

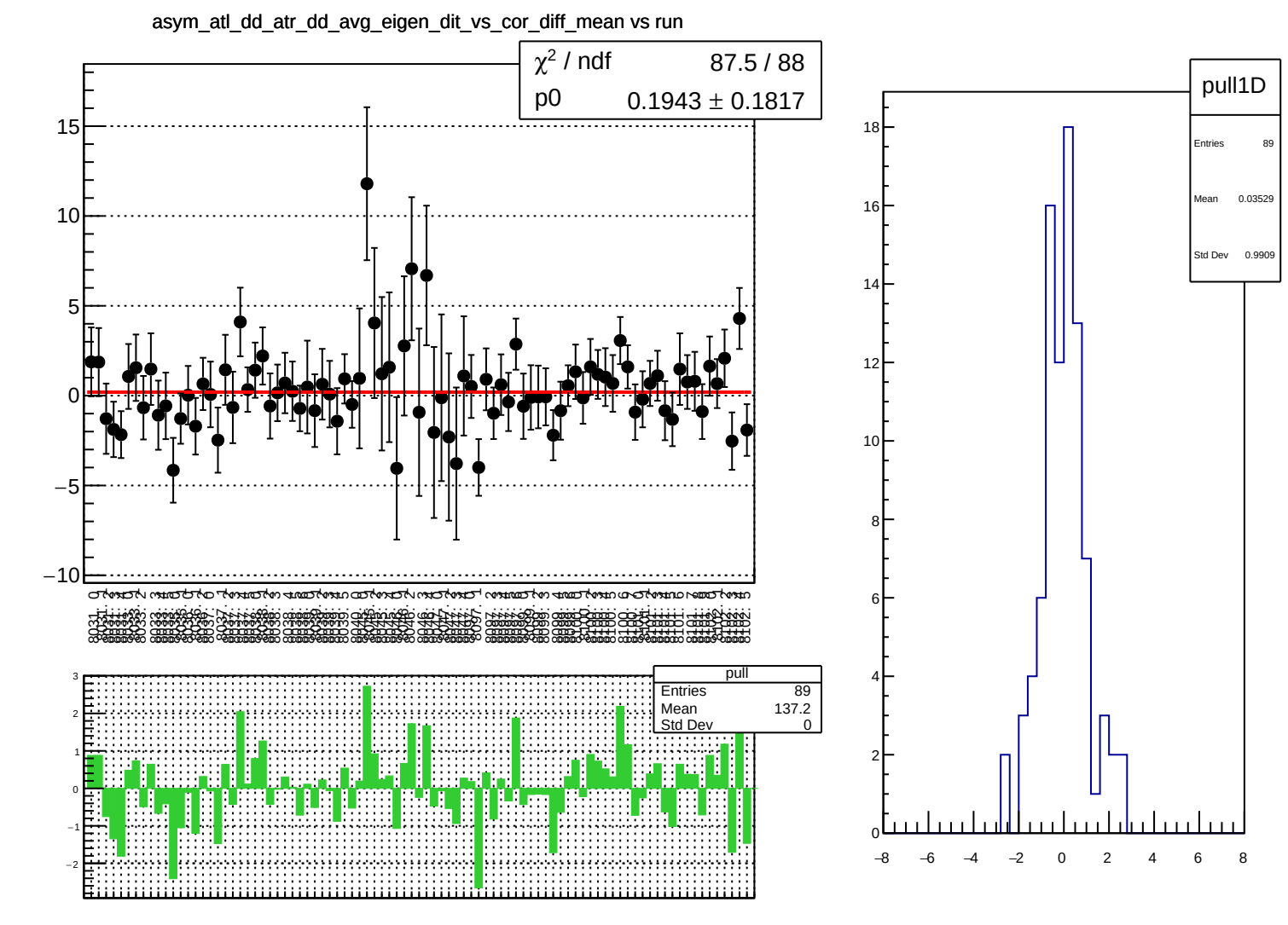

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.5 / 88
p0 0.1943 ± 0.1817
pull
Entries 89
Mean 137.2
Std Dev 0

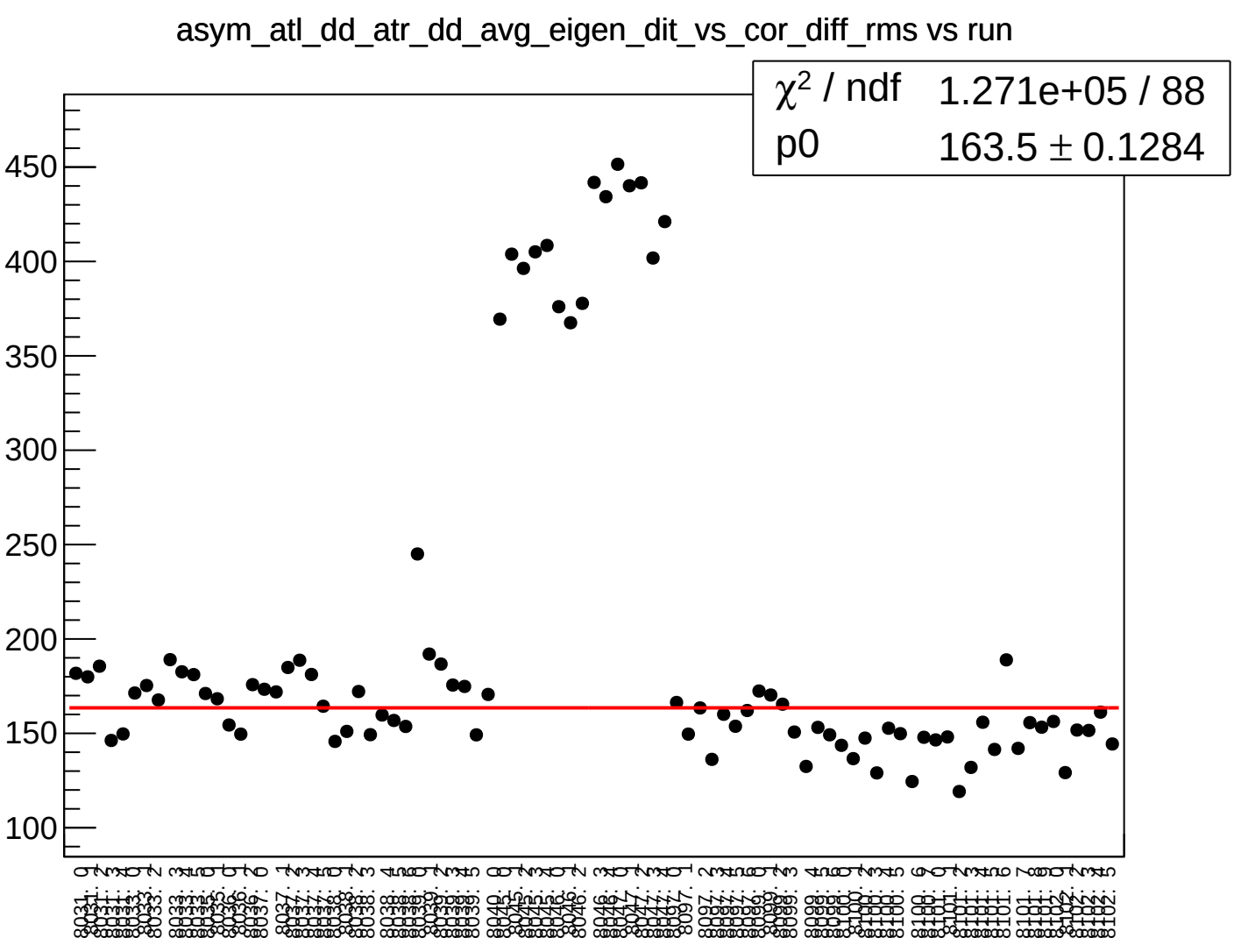

pull1D
Entries 89
Mean 0.03529
Std Dev 0.9909

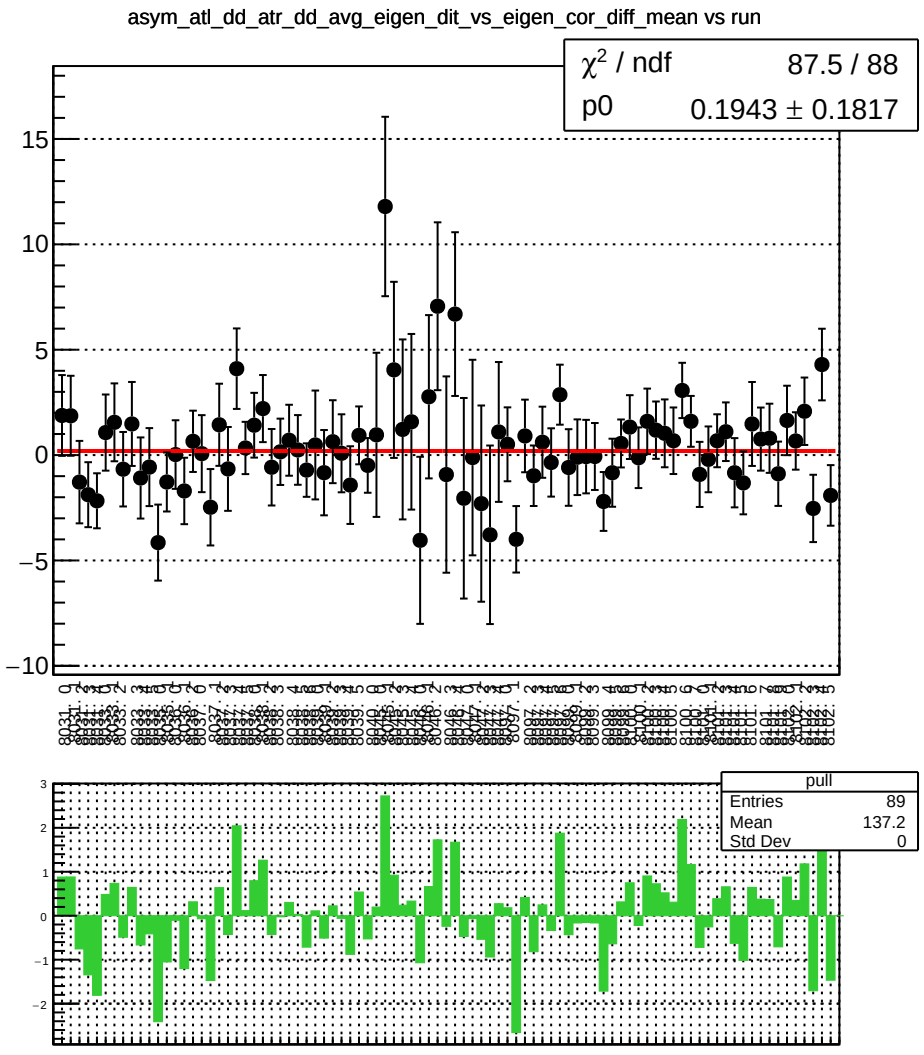

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.271e+05 / 88
p0 163.5 ± 0.1284
450
400
350
300
250
200
150
100

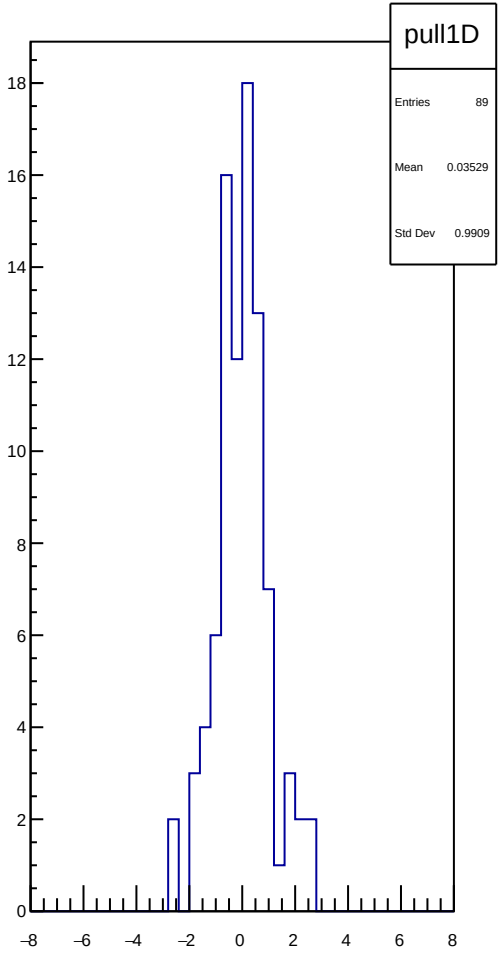

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.12 / 88
p0 −9.085e−06 ± 1.664e−05
pull
Entries 89
Mean −258.4
Std Dev 0
pull1D
Entries 89
Mean −0.006481
Std Dev 1.012

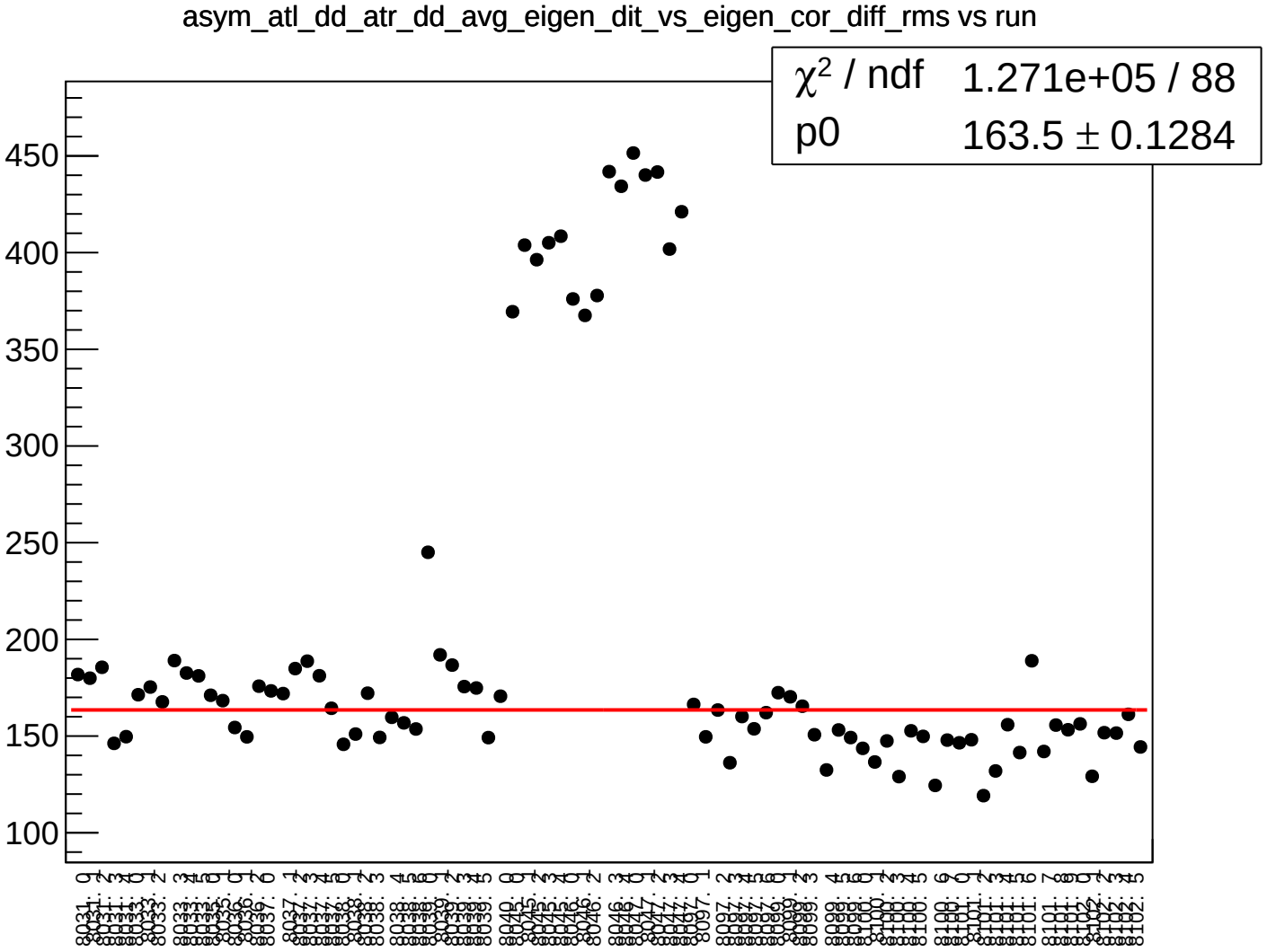

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2704 / 88
p0 0.01554 ± 1.176e−05
0.0175
0.017
0.0165
0.016
0.0155
0.015
0.0145
0.014

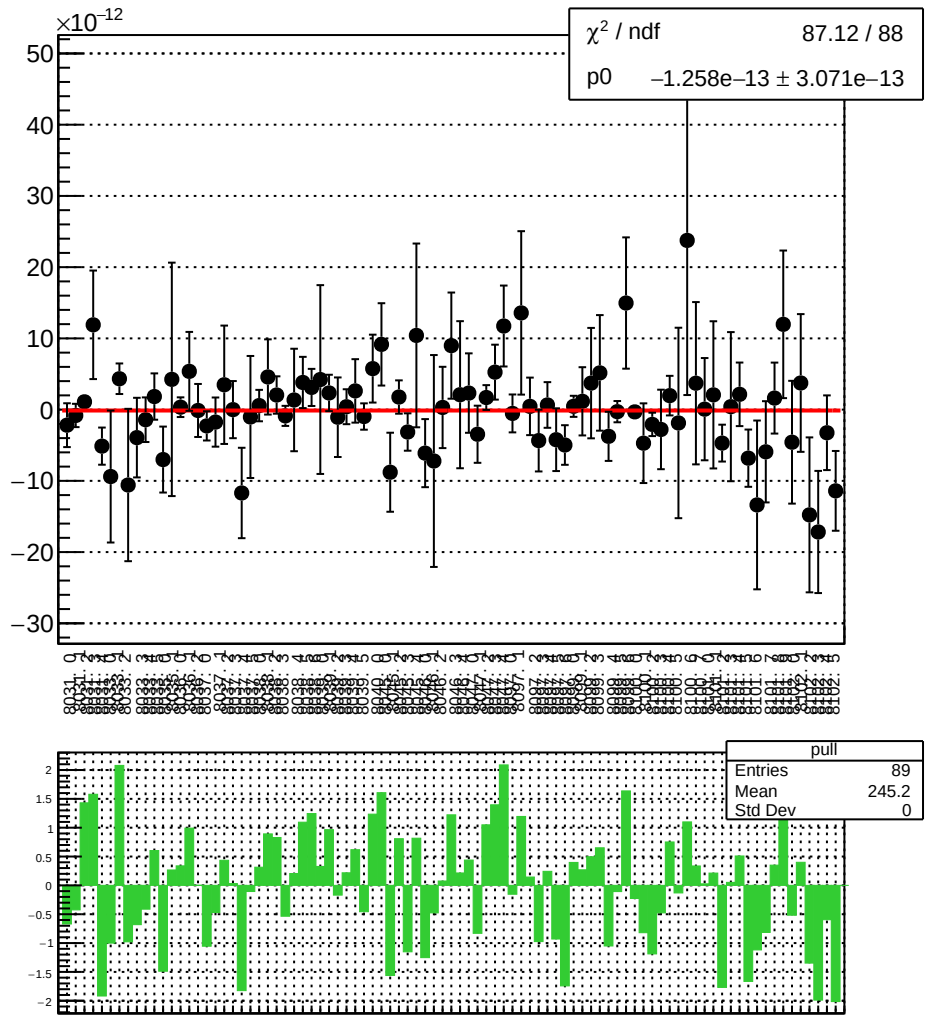

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.5 / 88
p0 0.1943 ± 0.1817
pull
Entries 89
Mean 137.2
Std Dev 0
pull1D
Entries 89
Mean 0.03529
Std Dev 0.9909

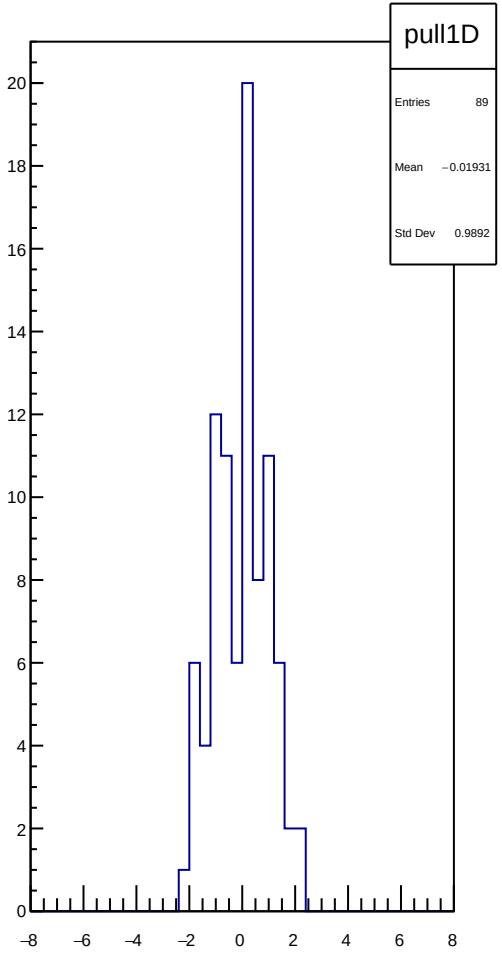

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.271e+05 / 88
p0 163.5 ± 0.1284
450
400
350
300
250
200
150
100

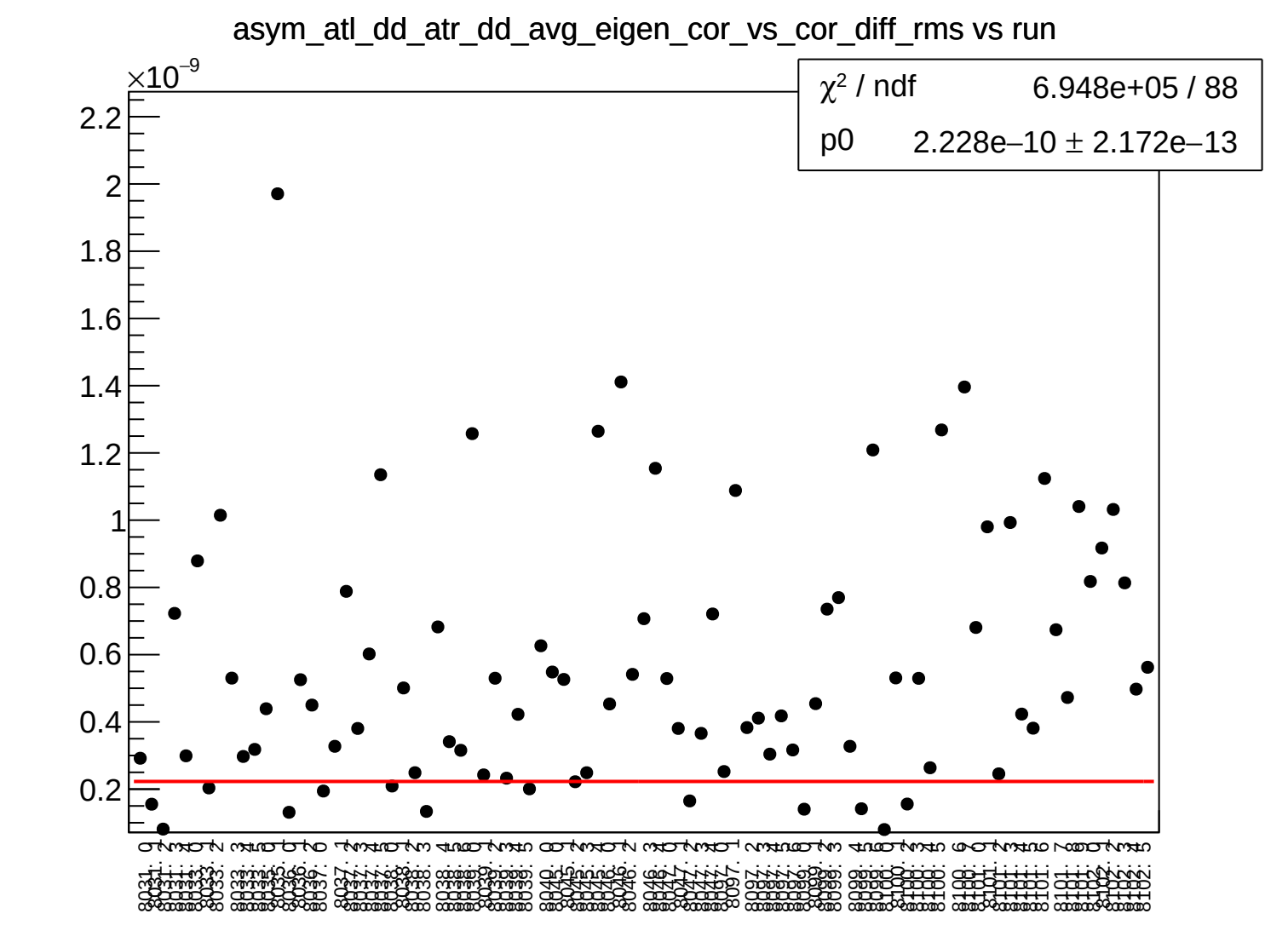

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.5 / 88
p0 0.1943 ± 0.1817
pull
Entries 89
Mean 137.2
Std Dev 0

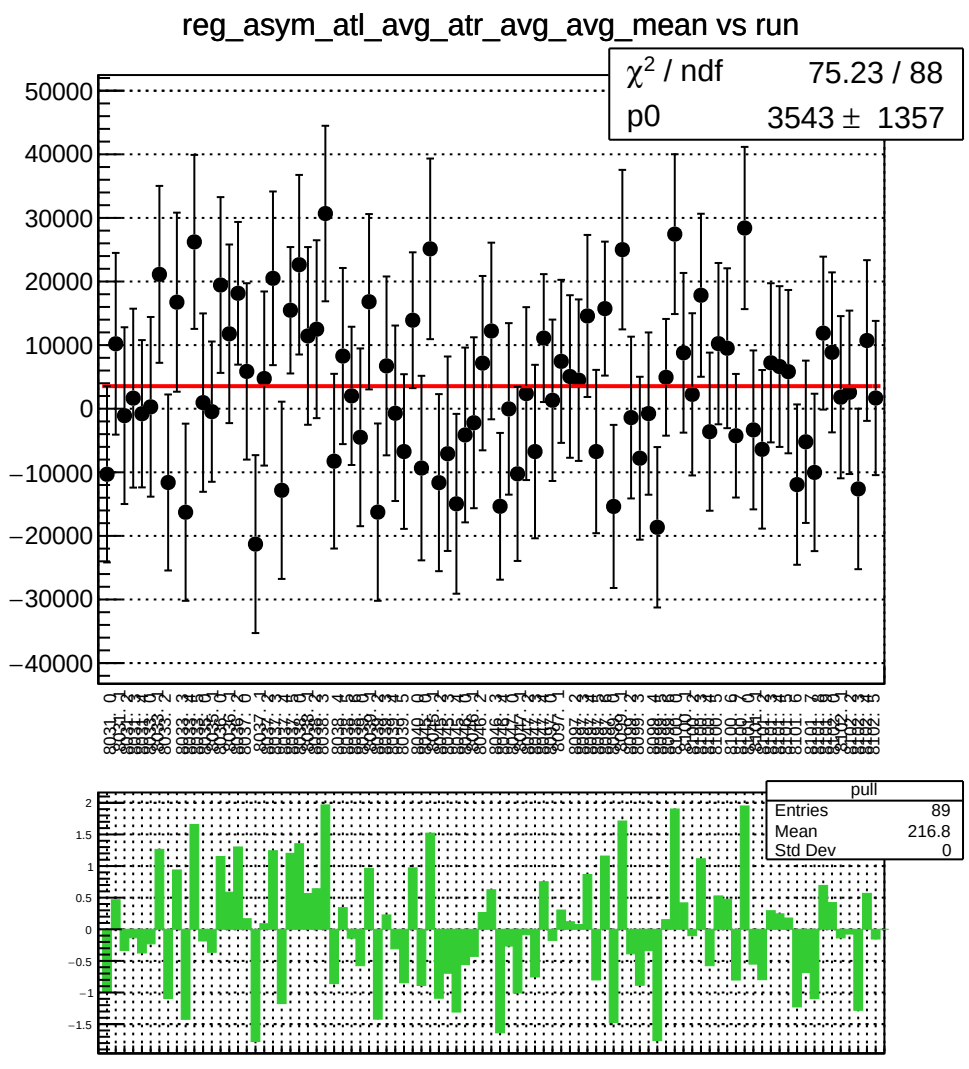

pull1D
Entries 89
Mean 0.03529
Std Dev 0.9909

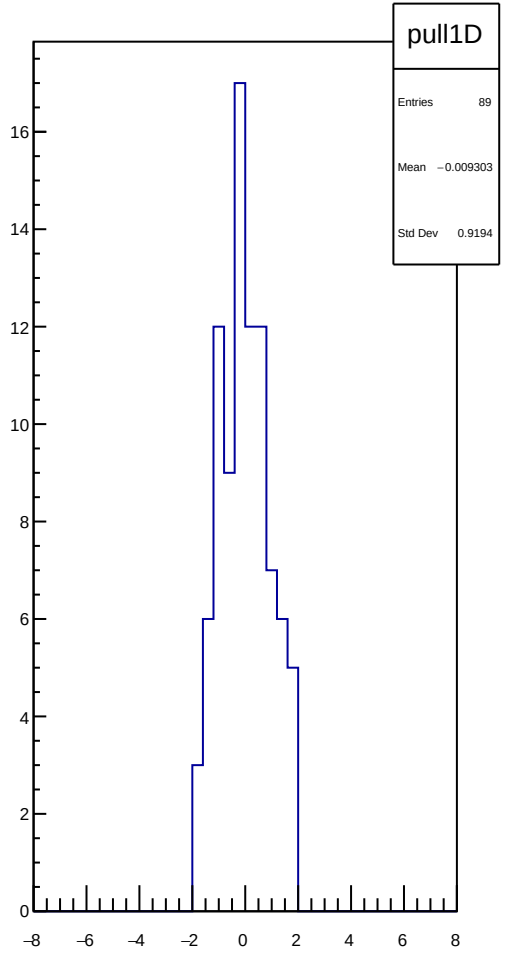

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.271e+05 / 88
p0 163.5 ± 0.1284
450
400
350
300
250
200
150
100

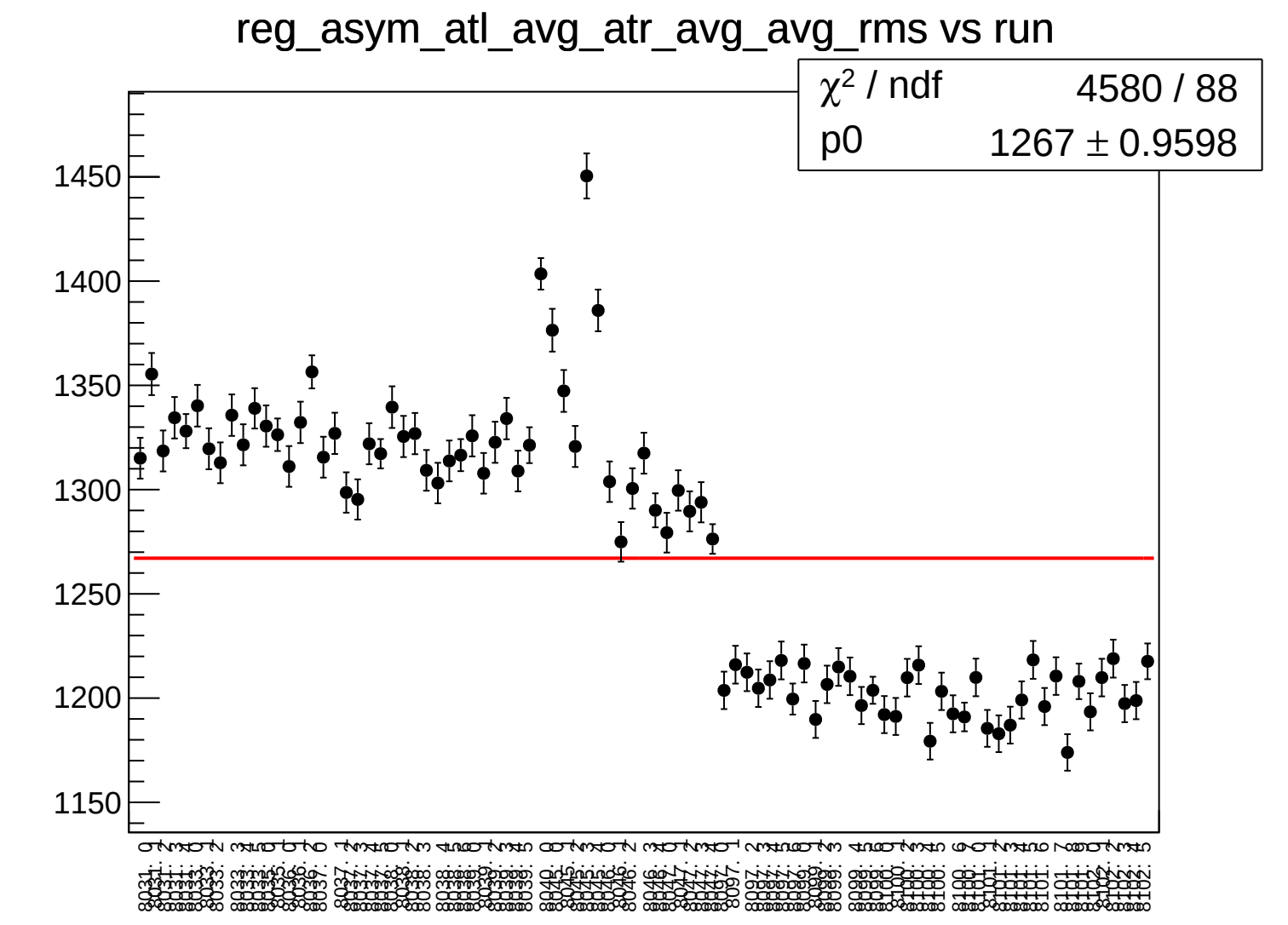

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.12 / 88
p0 −1.258e−13 ± 3.071e−13
pull
Entries 89
Mean 245.2
Std Dev 0

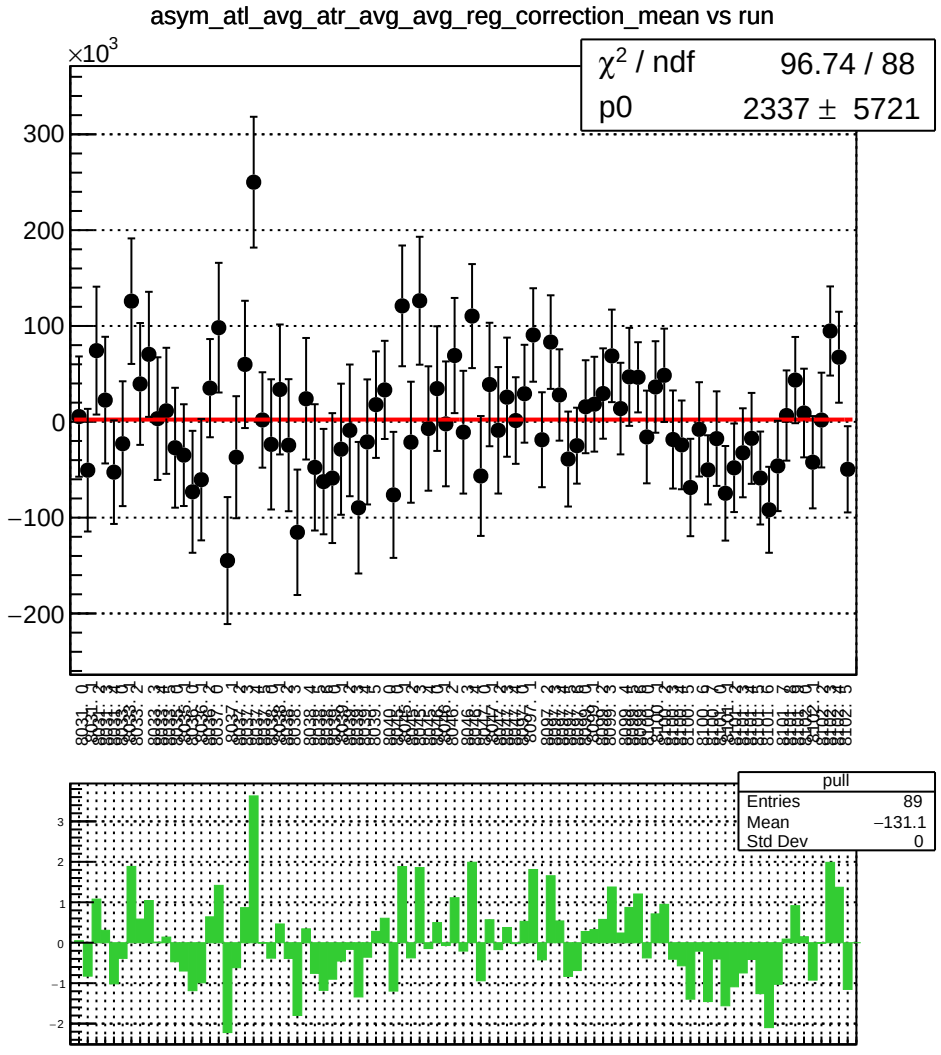

pull1D
Entries 89
Mean −0.01931
Std Dev 0.9892

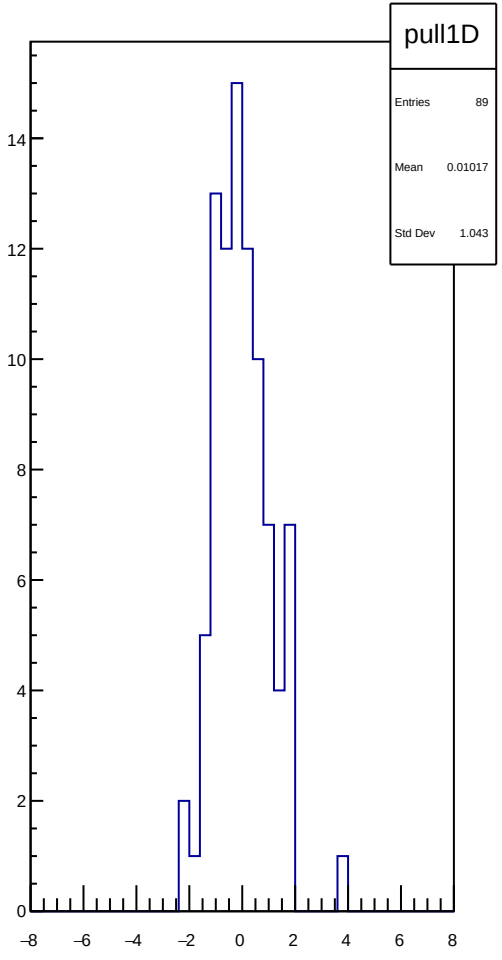

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.948e+05 / 88
p0 2.228e−10 ± 2.172e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

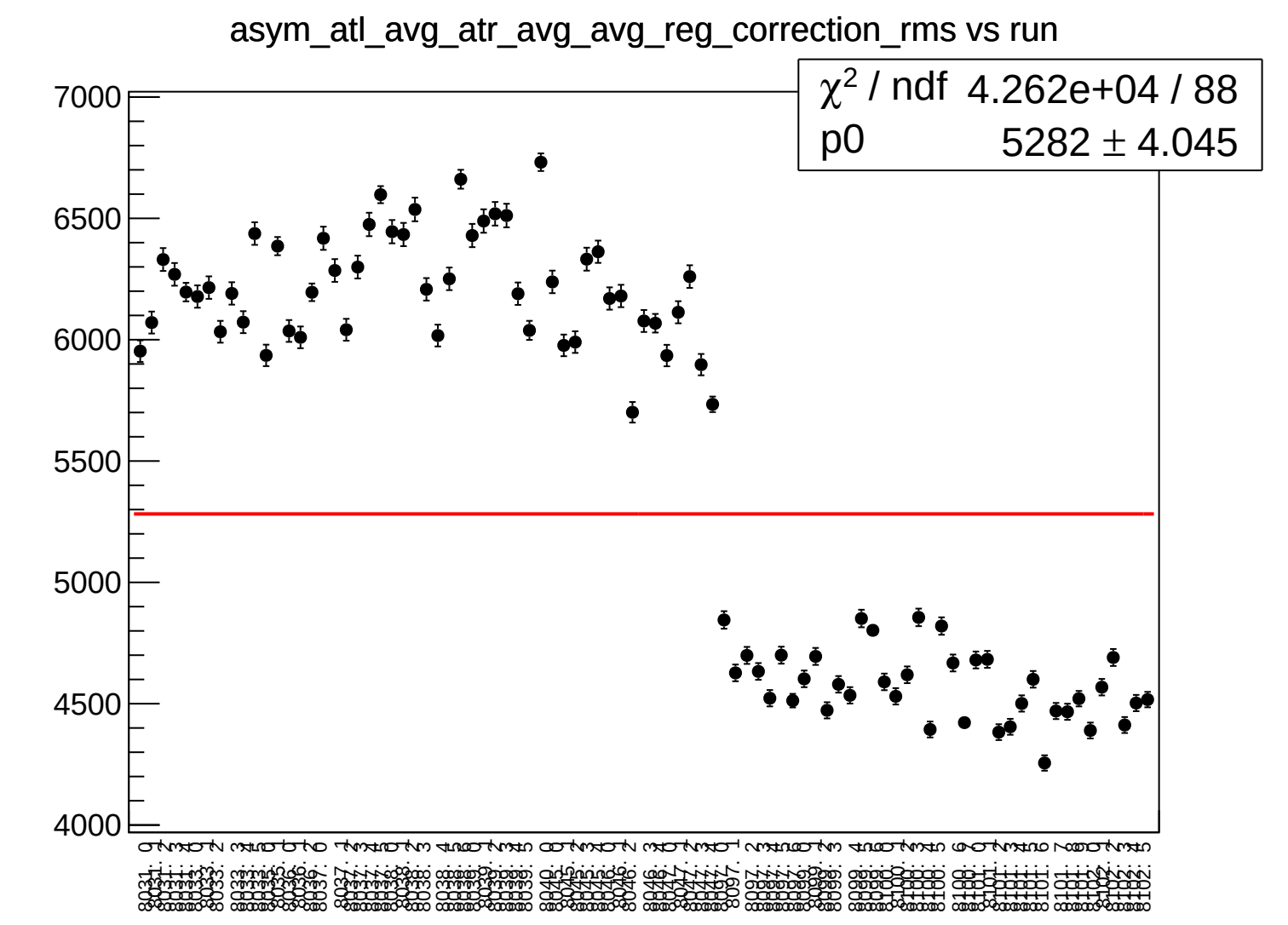

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 75.23 / 88
p0 3543 ± 1357
pull
Entries 89
Mean 216.8
Std Dev 0

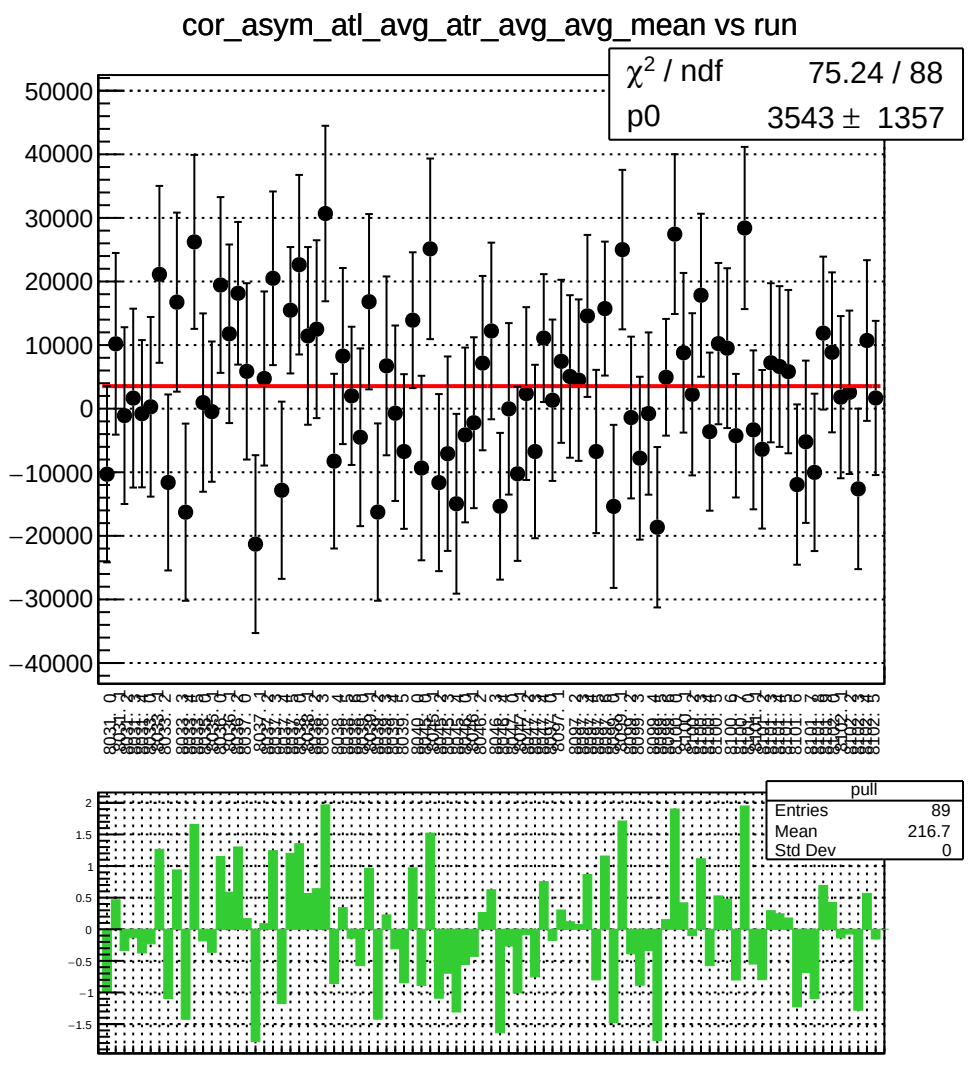

pull1D
Entries 89
Mean −0.009303
Std Dev 0.9194

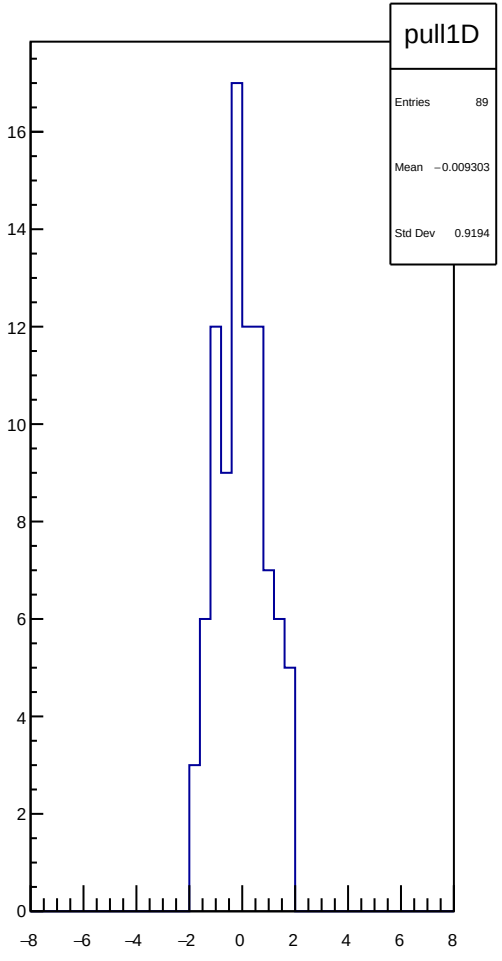

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 4580 / 88
p0 1267 ± 0.9598
1450
1400
1350
1300
1250
1200
1150

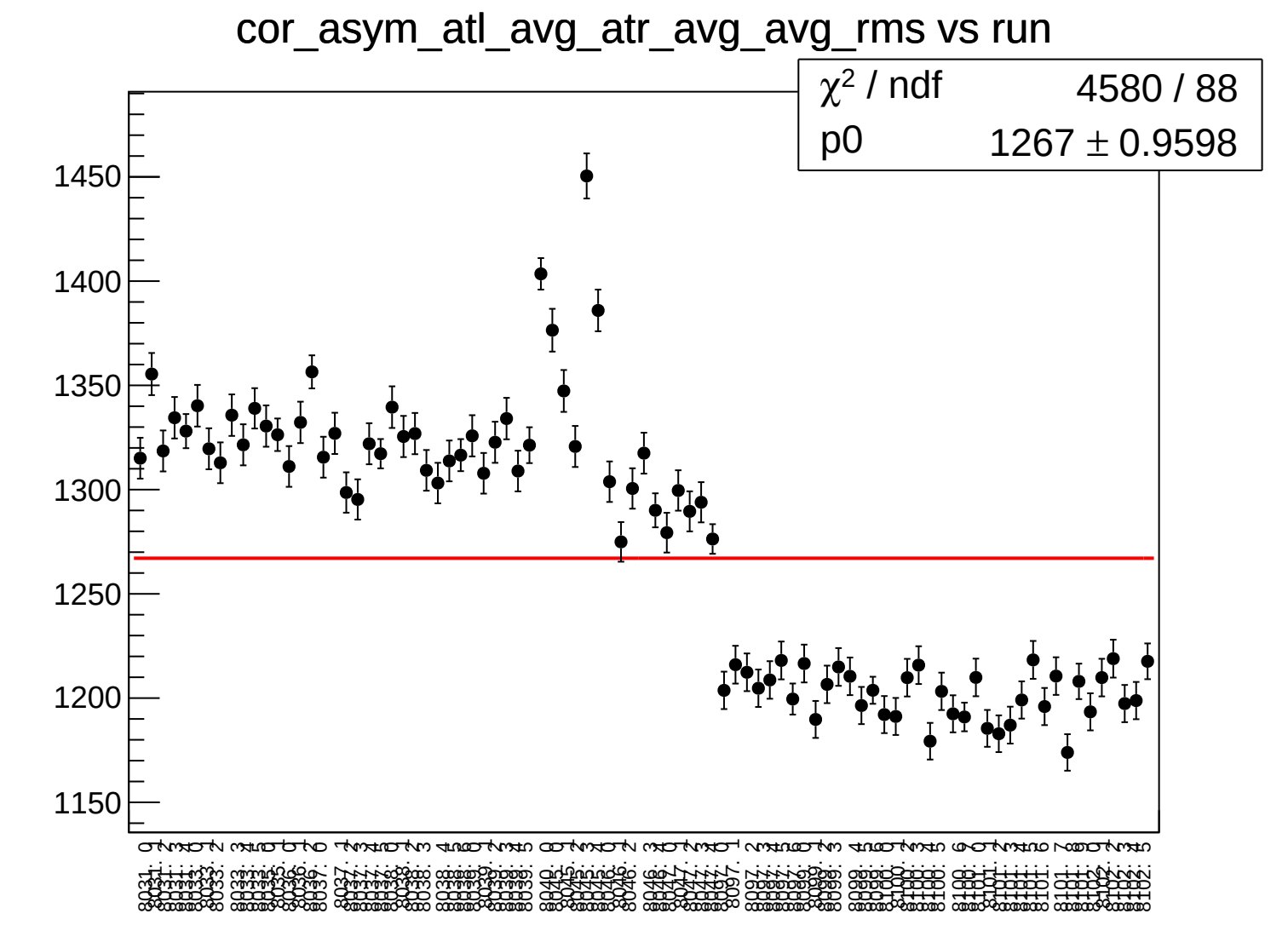

asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 96.74 / 88
p0 2337 ± 5721
300
200
100
0
−100
−200
pull
Entries 89
Mean −131.1
Std Dev 0
3
2
1
0
−1
−2

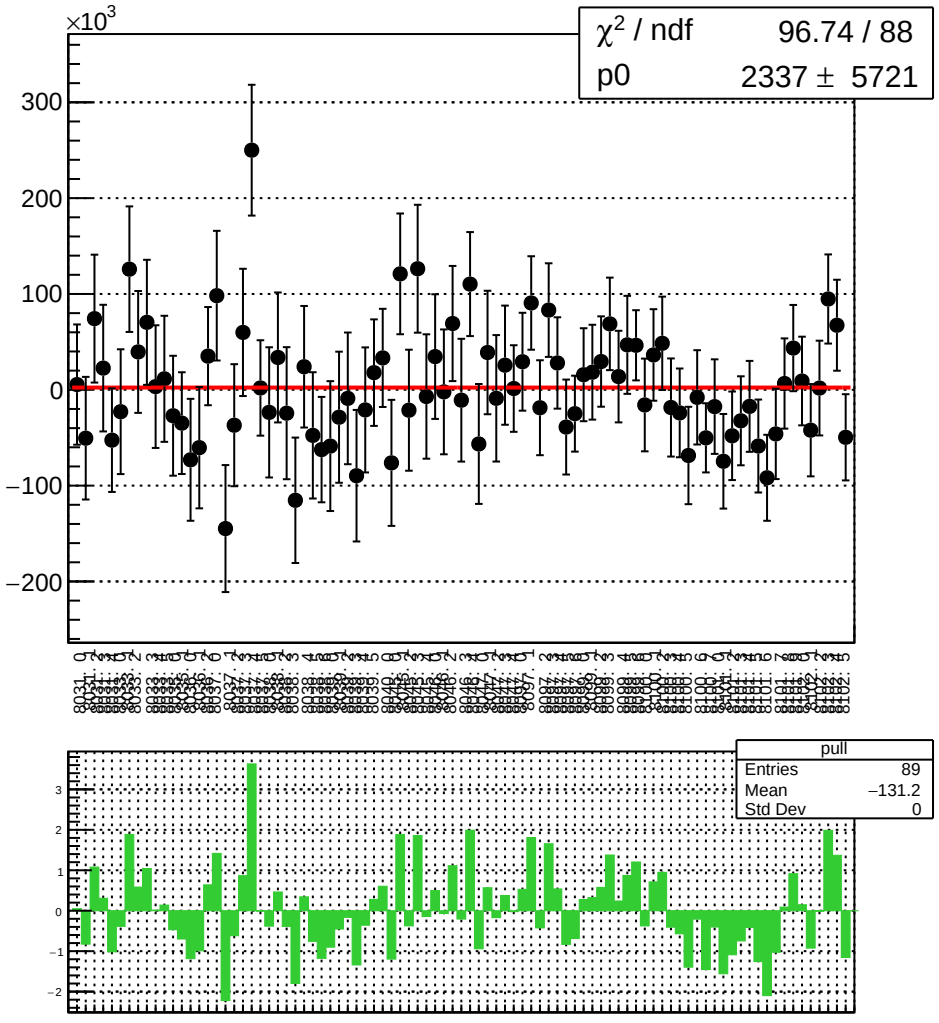

pull1D
Entries 89
Mean 0.01017
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

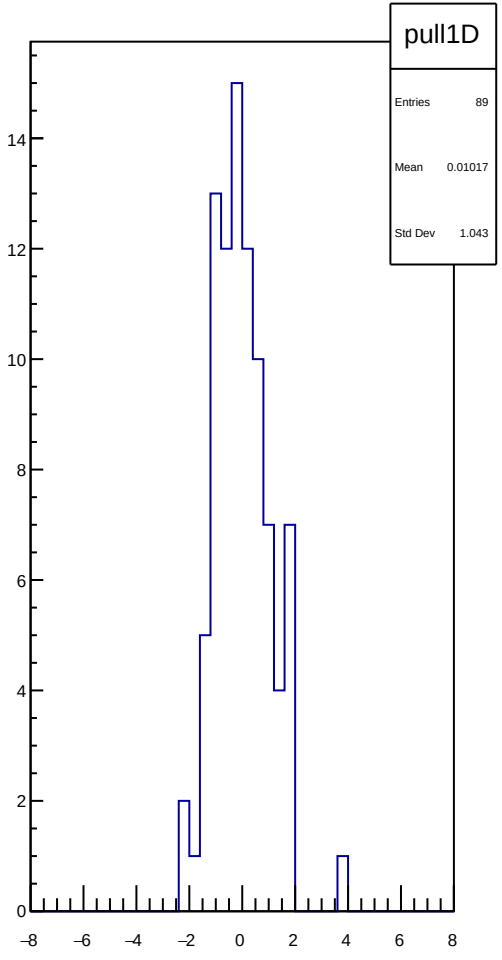

asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 4.262e+04 / 88
p0 5282 ± 4.045
7000
6500
6000
5500
5000
4500
4000

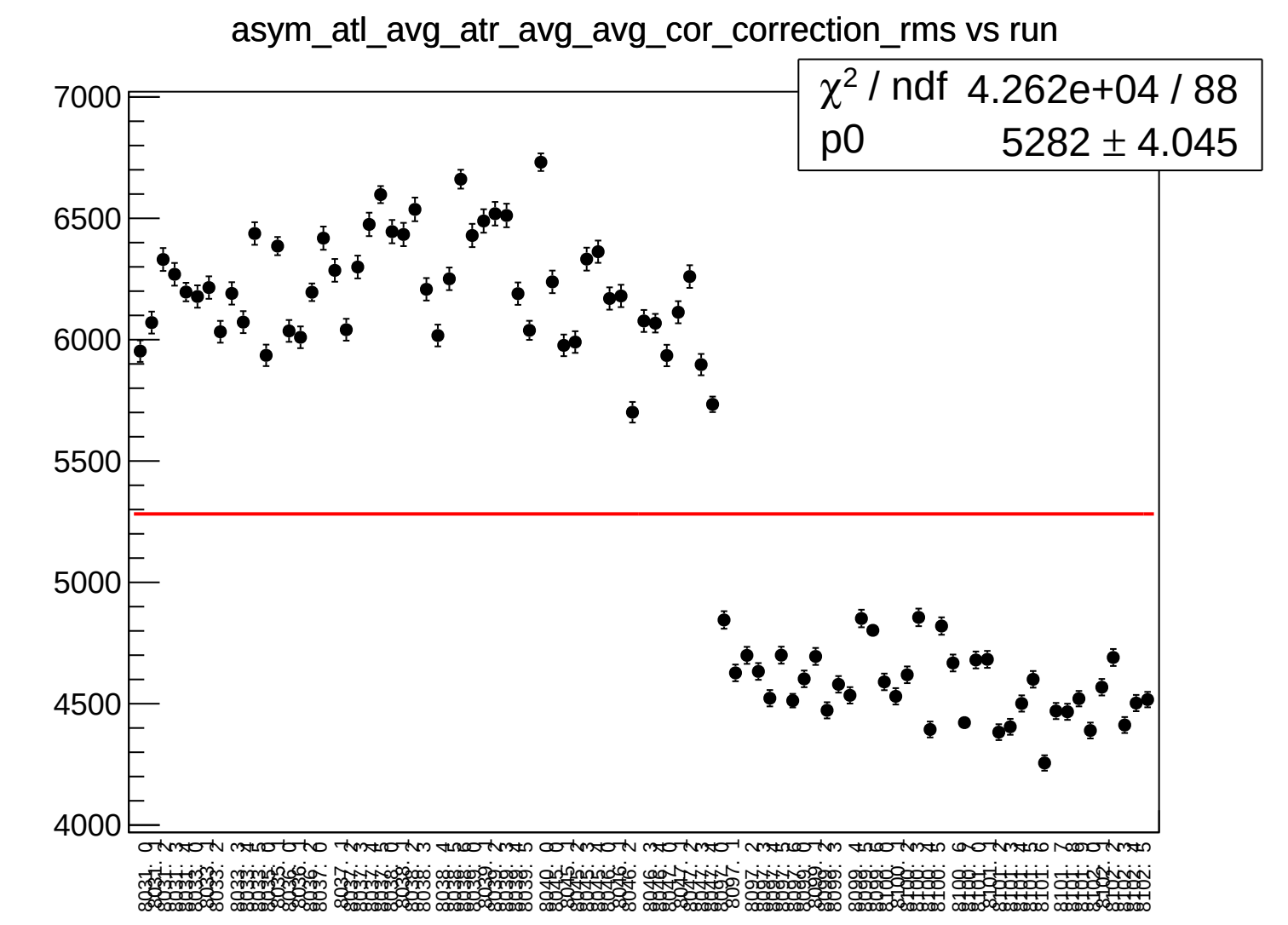

cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 75.24 / 88
p0 3543 ± 1357
pull
Entries 89
Mean 216.7
Std Dev 0

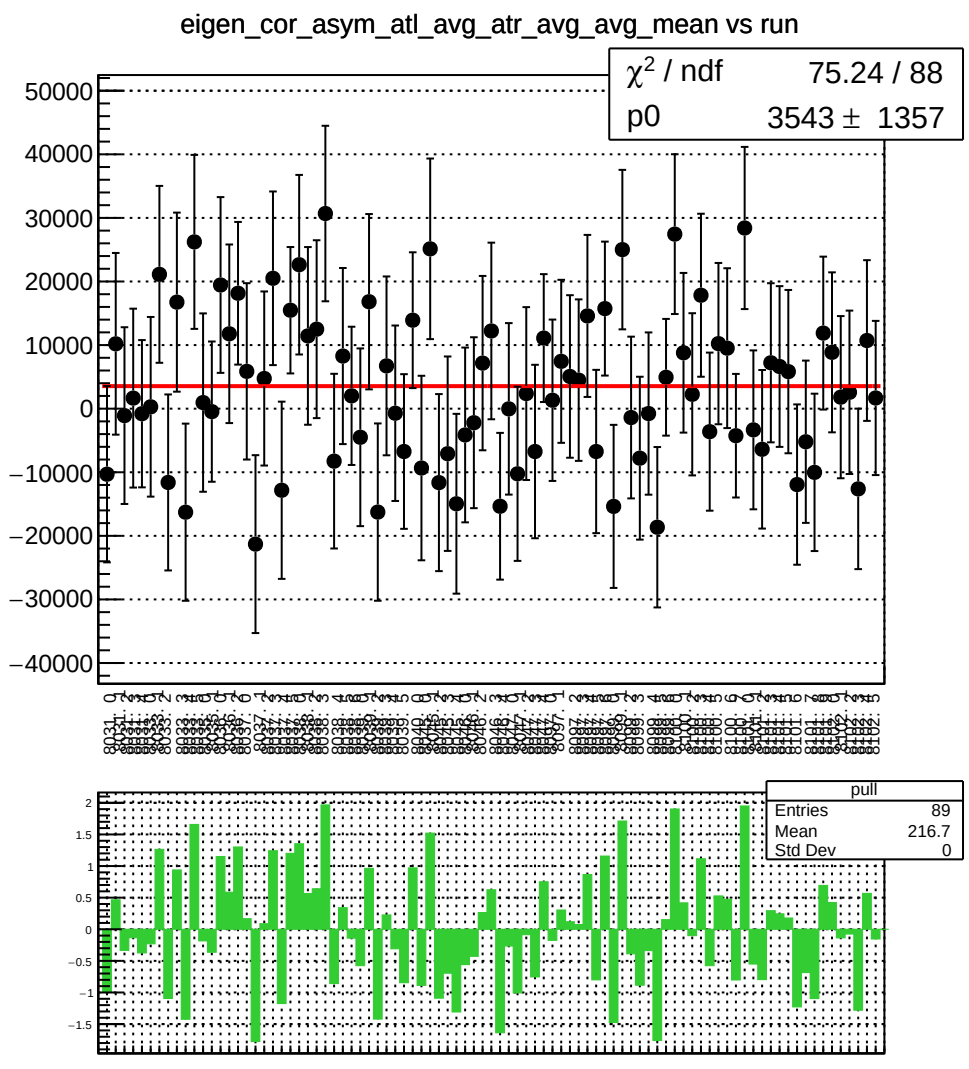

pull1D
Entries 89
Mean −0.009303
Std Dev 0.9194

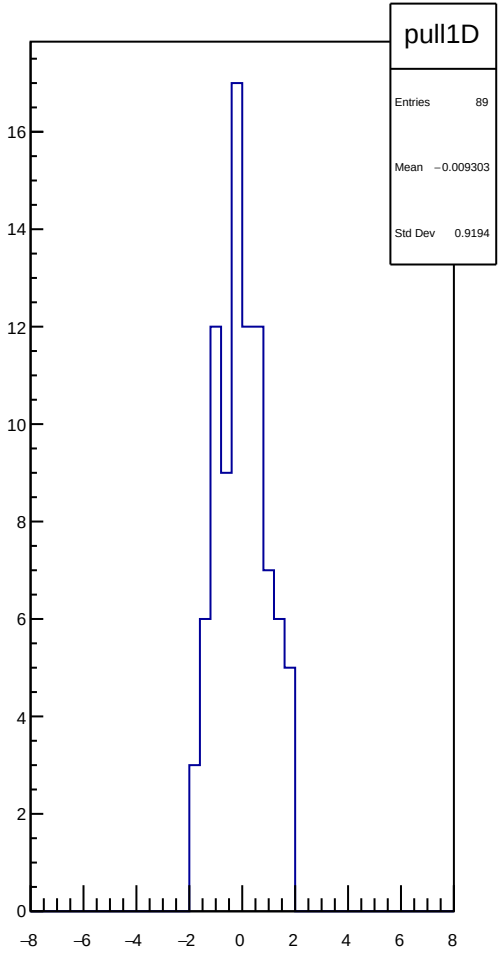

cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 4580 / 88
p0 1267 ± 0.9598
1450
1400
1350
1300
1250
1200
1150

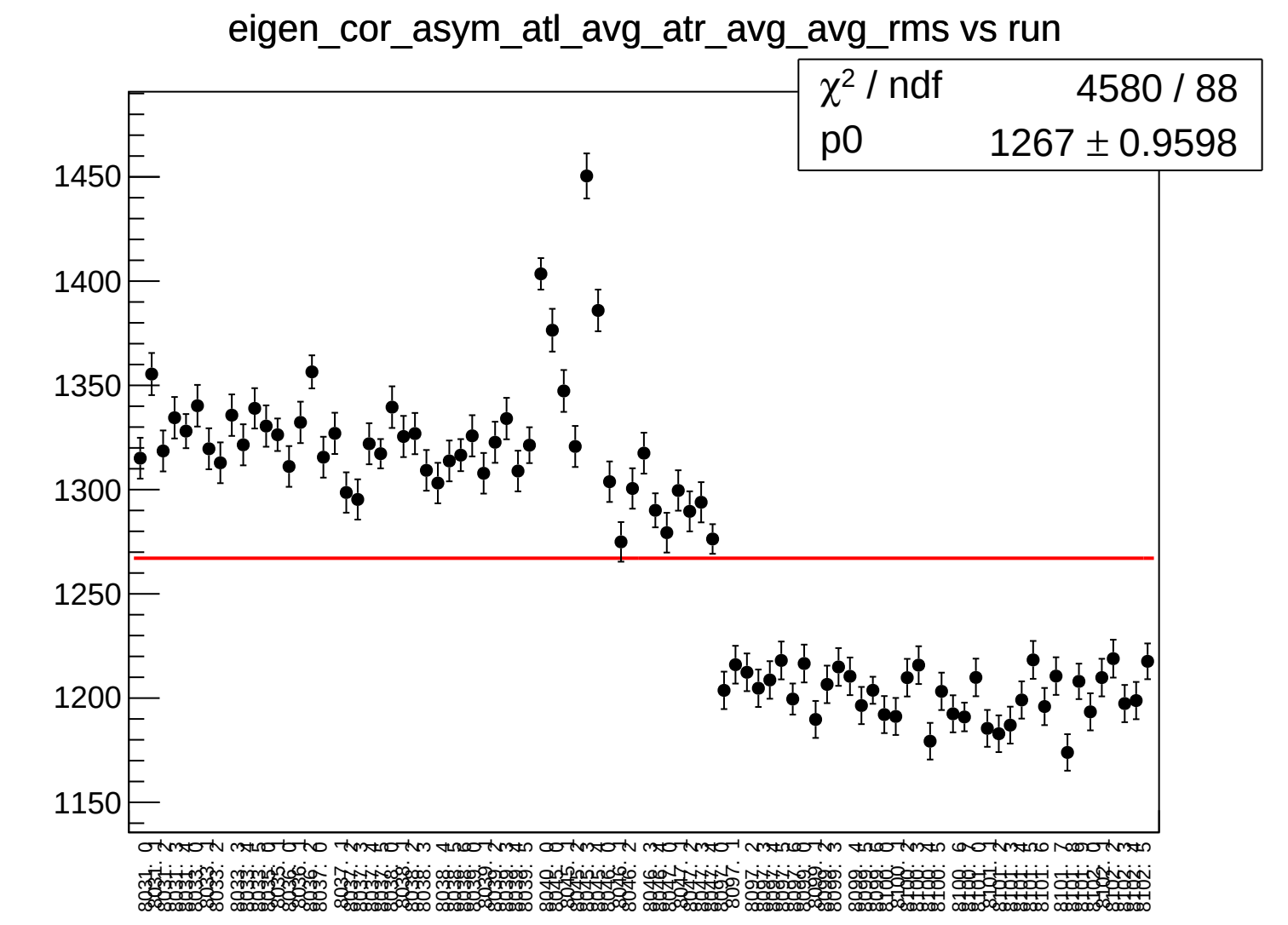

asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 96.74 / 88
p0 2337 ± 5721
300
200
100
0
−100
−200
pull
Entries 89
Mean −131.2
Std Dev 0
3
2
1
0
−1
−2

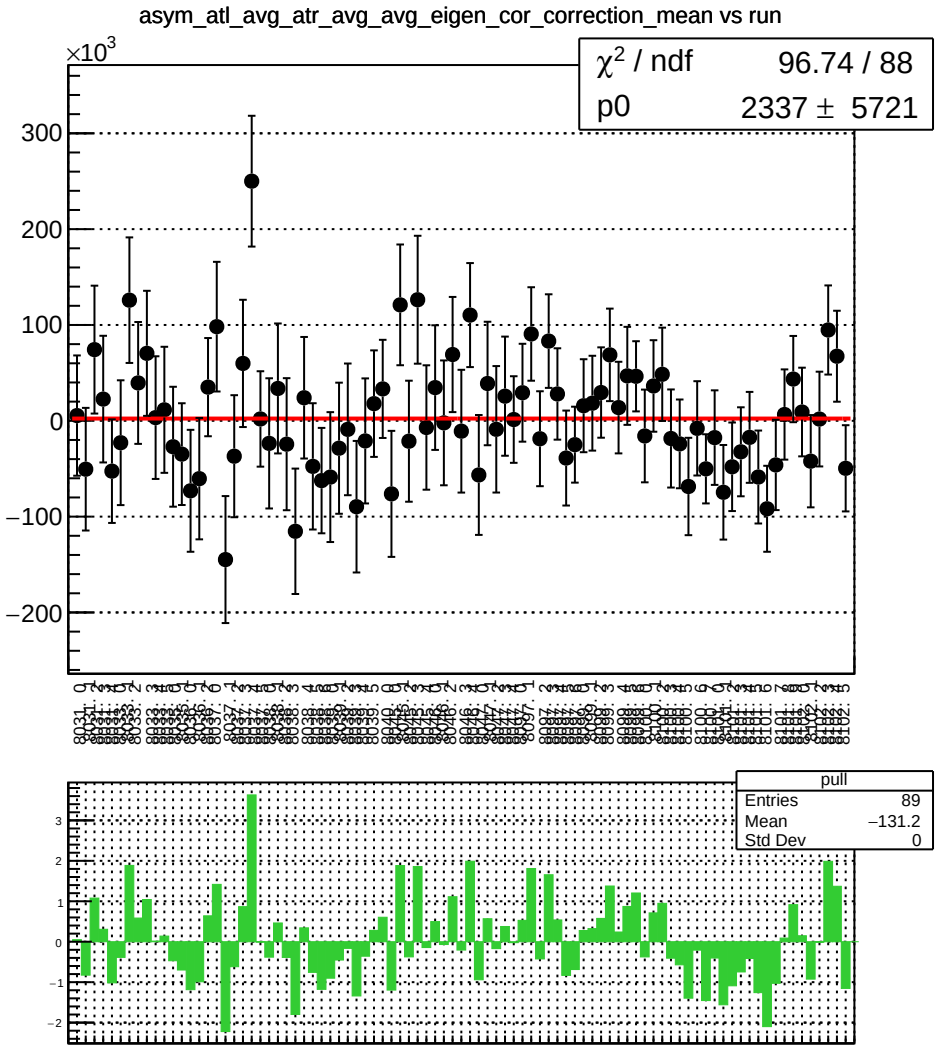

pull1D
Entries 89
Mean 0.01017
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

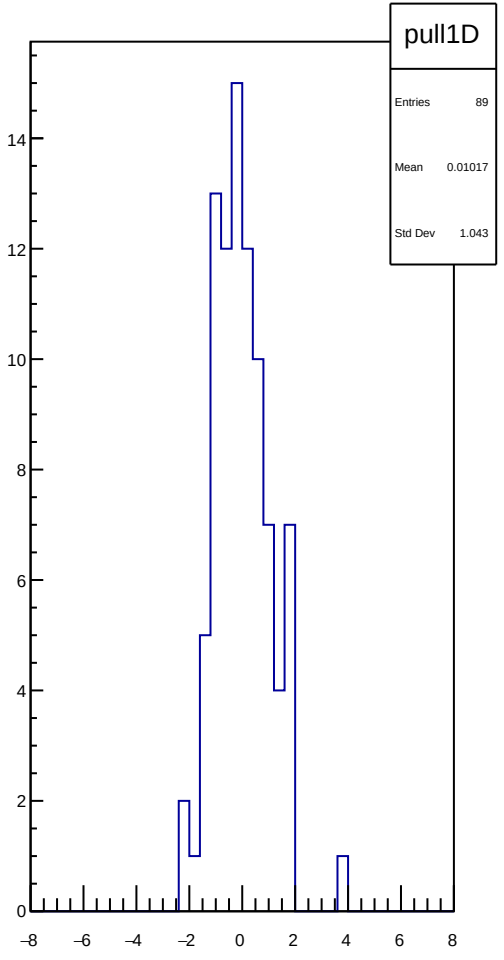

asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 4.262e+04 / 88
p0 5282 ± 4.045
7000
6500
6000
5500
5000
4500
4000

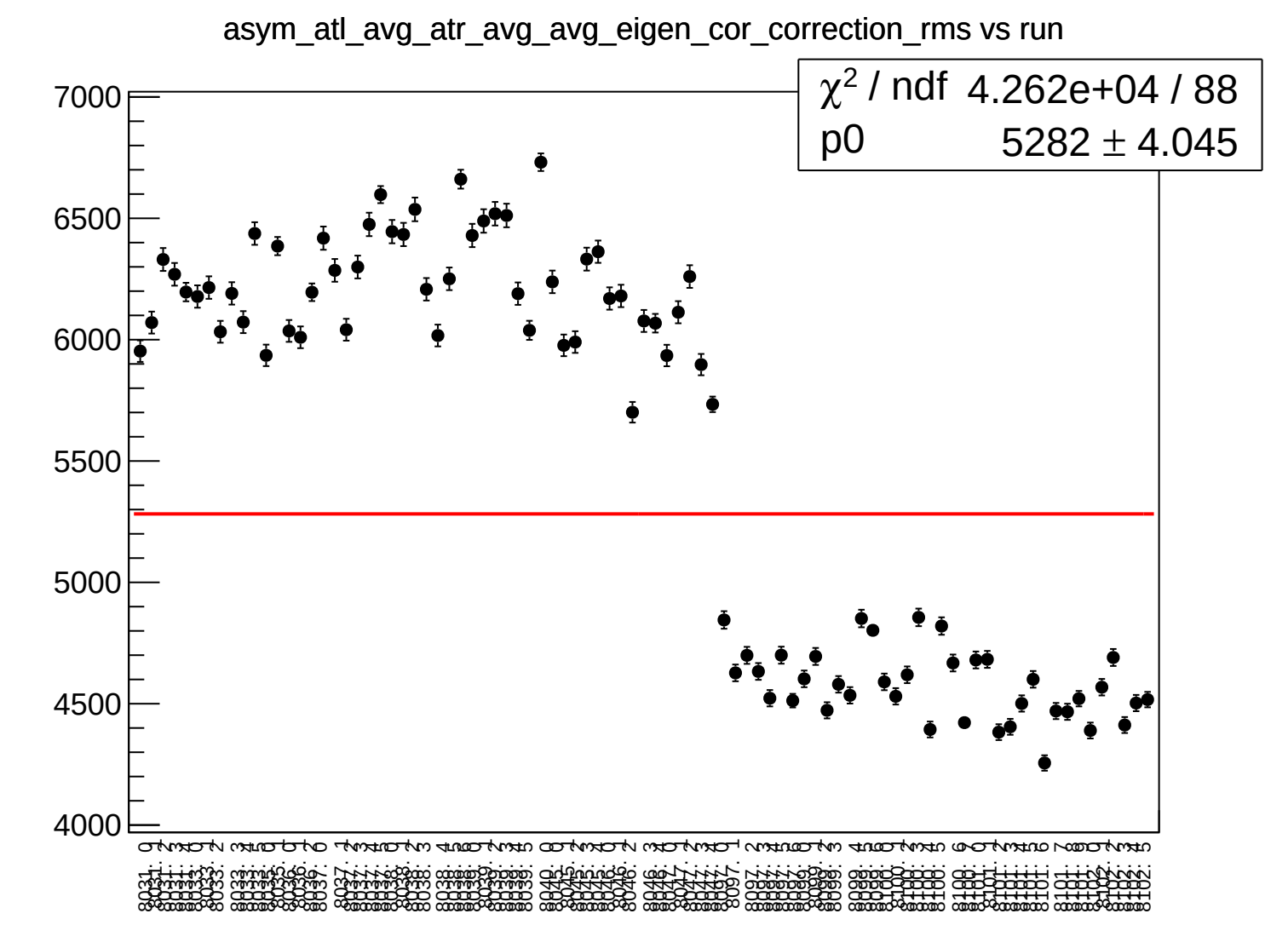

eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 75.24 / 88
p0 3543 ± 1357
pull
Entries 89
Mean 216.7
Std Dev 0

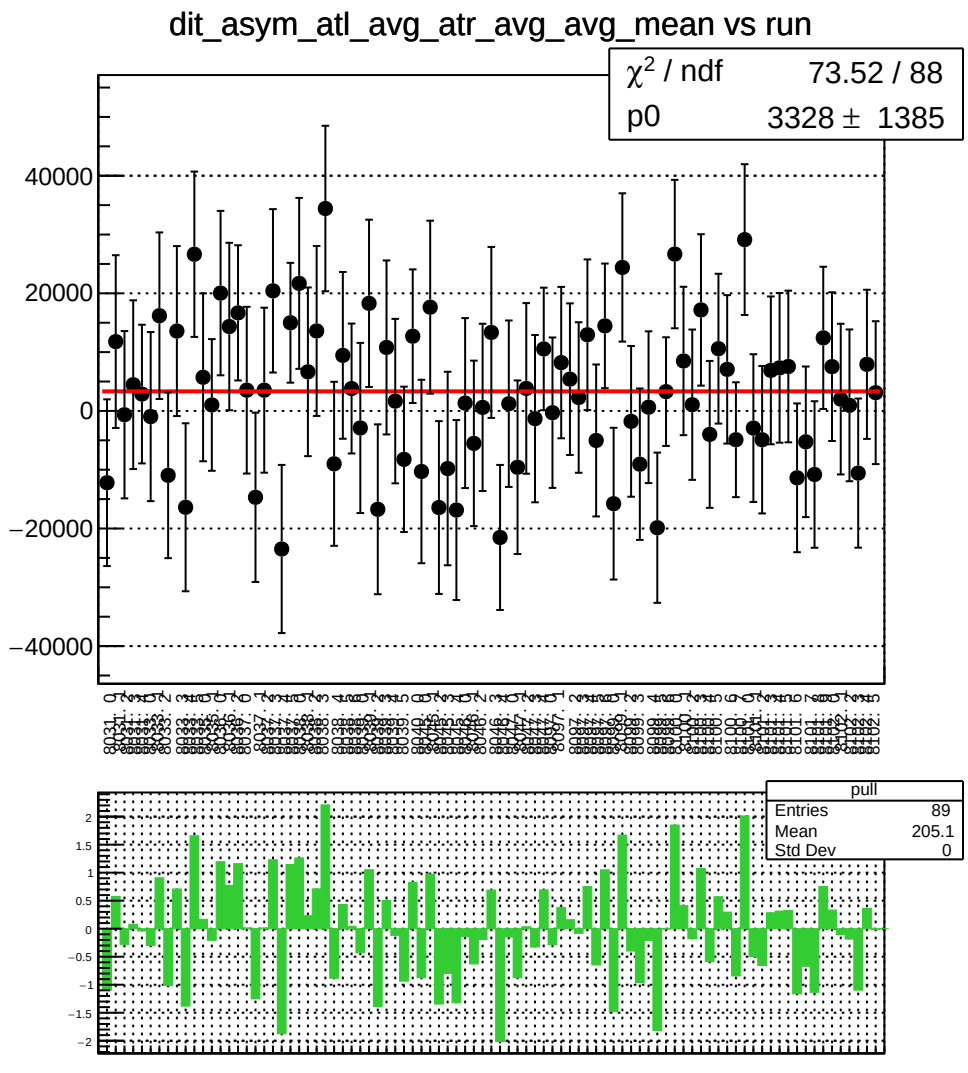

pull1D
Entries 89
Mean −0.009303
Std Dev 0.9194

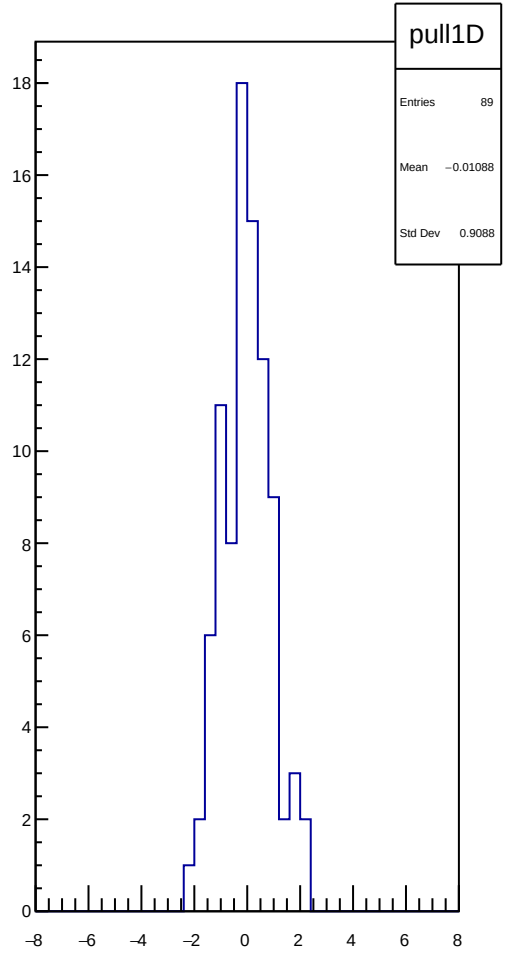

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 4580 / 88
p0 1267 ± 0.9598
1450
1400
1350
1300
1250
1200
1150

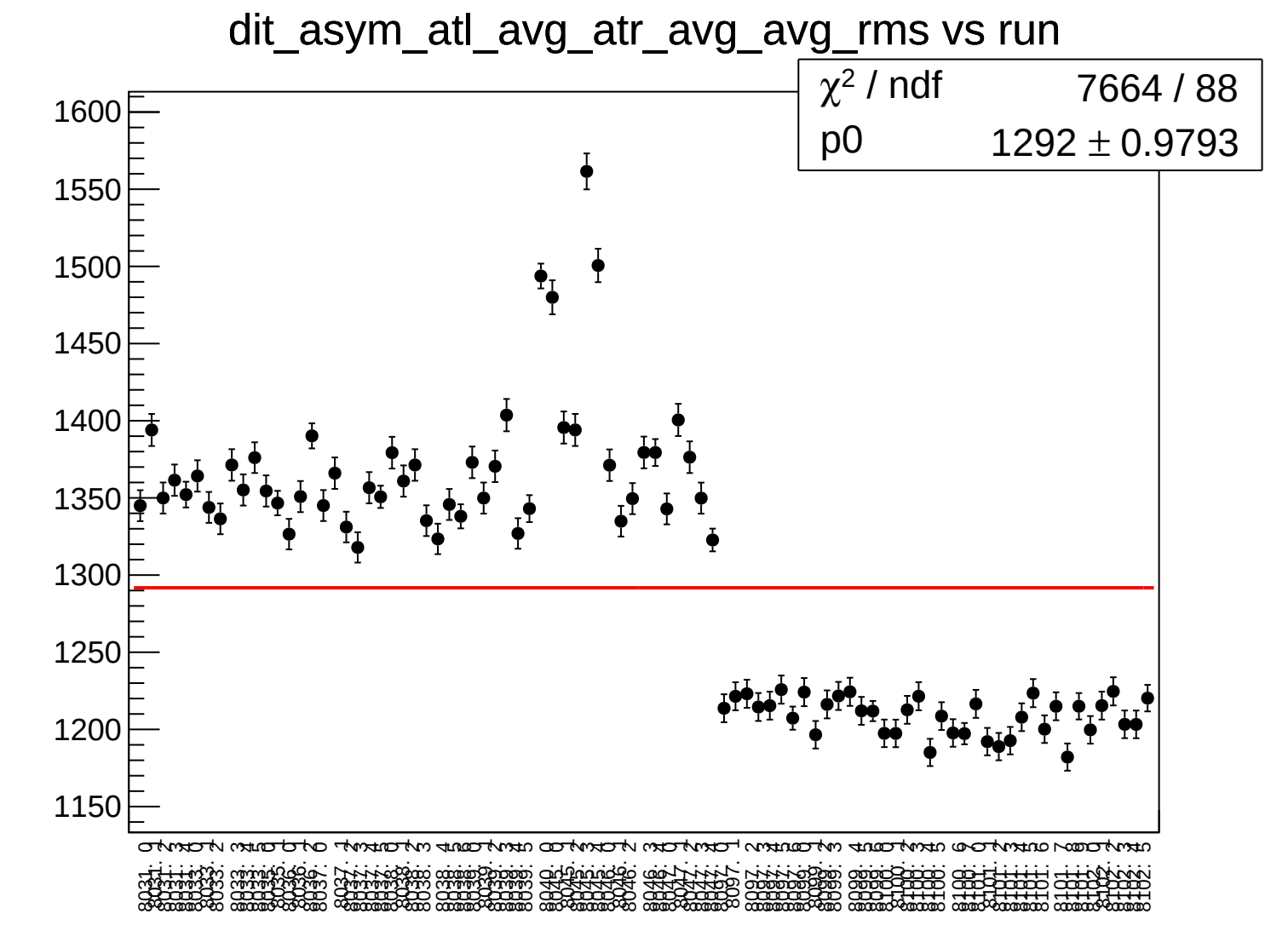

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 96.74 / 88
p0 2337 ± 5721
300
200
100
0
−100
−200
pull
Entries 89
Mean −131.2
Std Dev 0
3
2
1
0
−1
−2

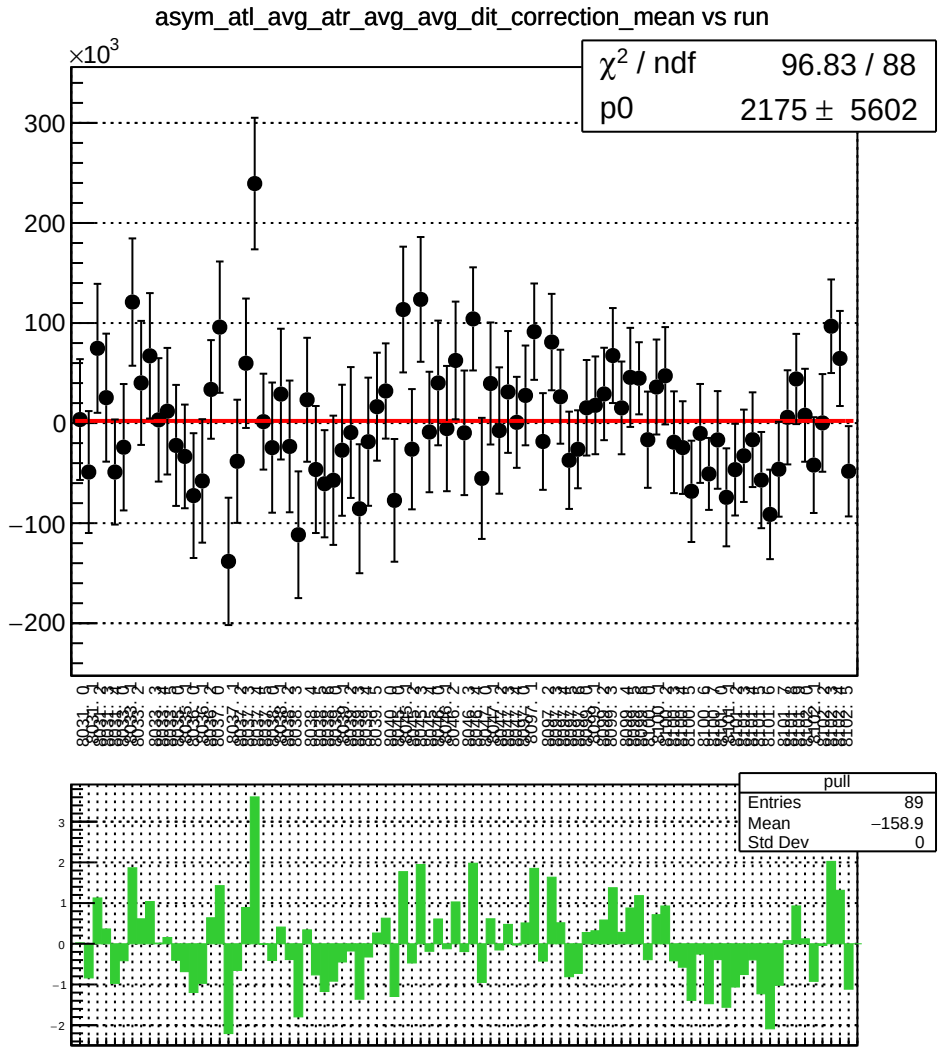

pull1D
Entries 89
Mean 0.01017
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

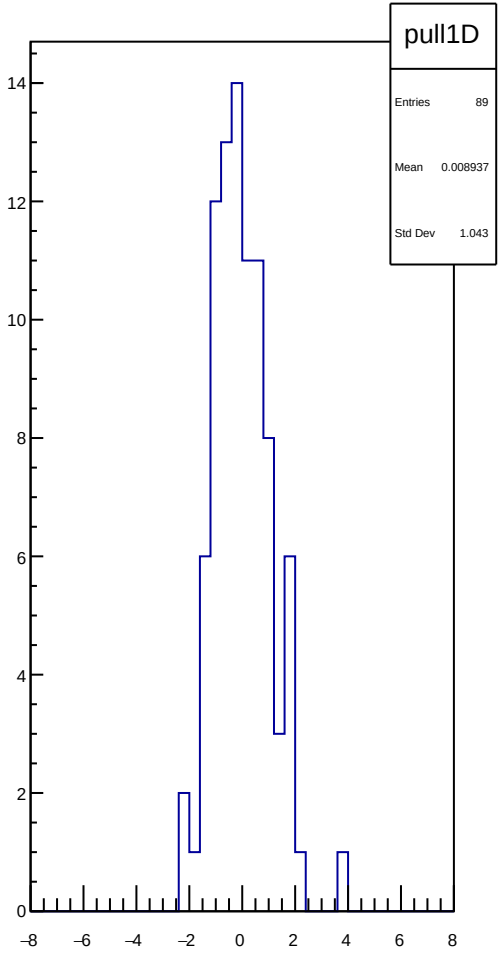

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 4.262e+04 / 88
p0 5282 ± 4.045
7000
6500
6000
5500
5000
4500
4000

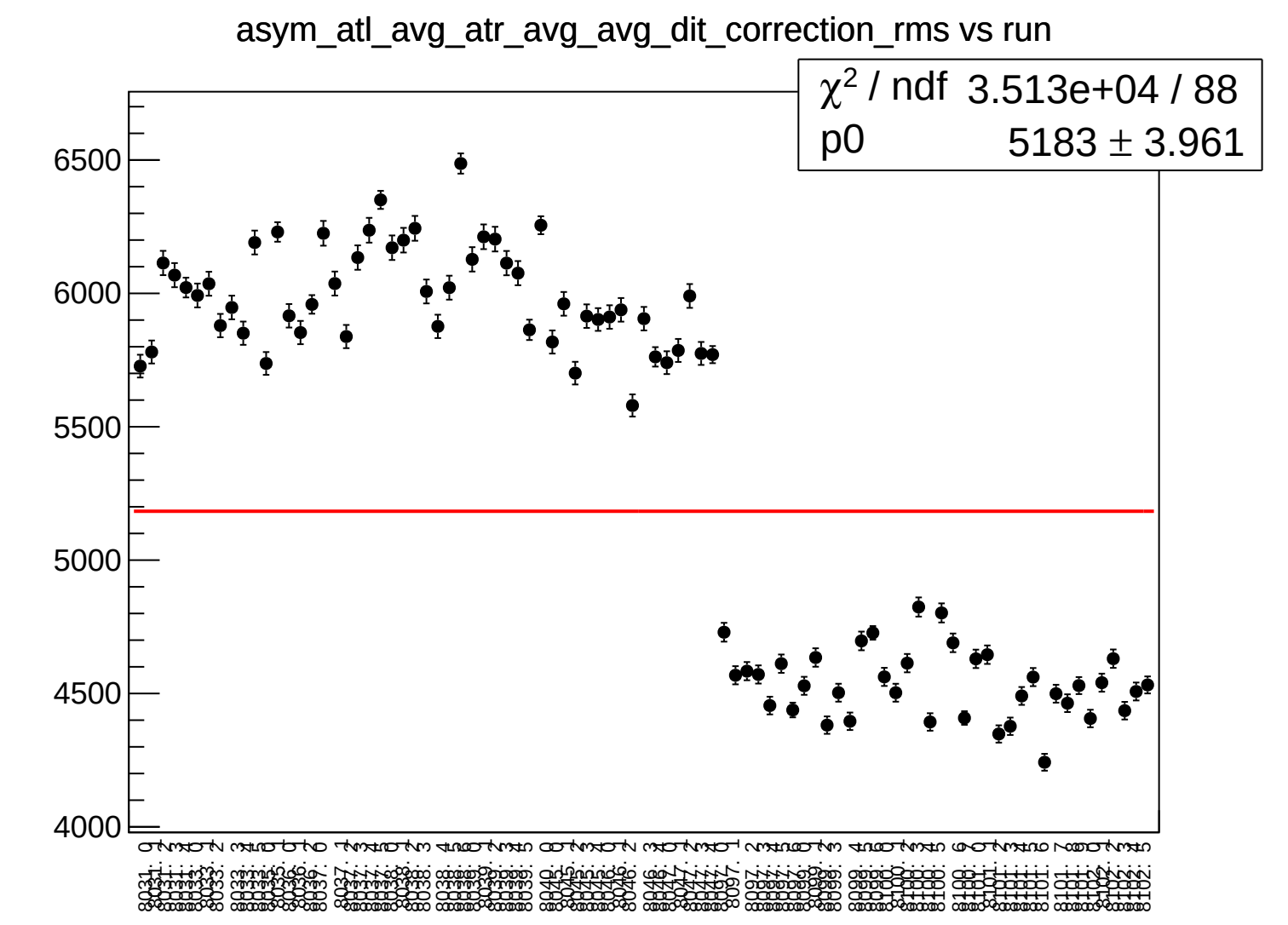

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 73.52 / 88
p0 3328 ± 1385
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 205.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

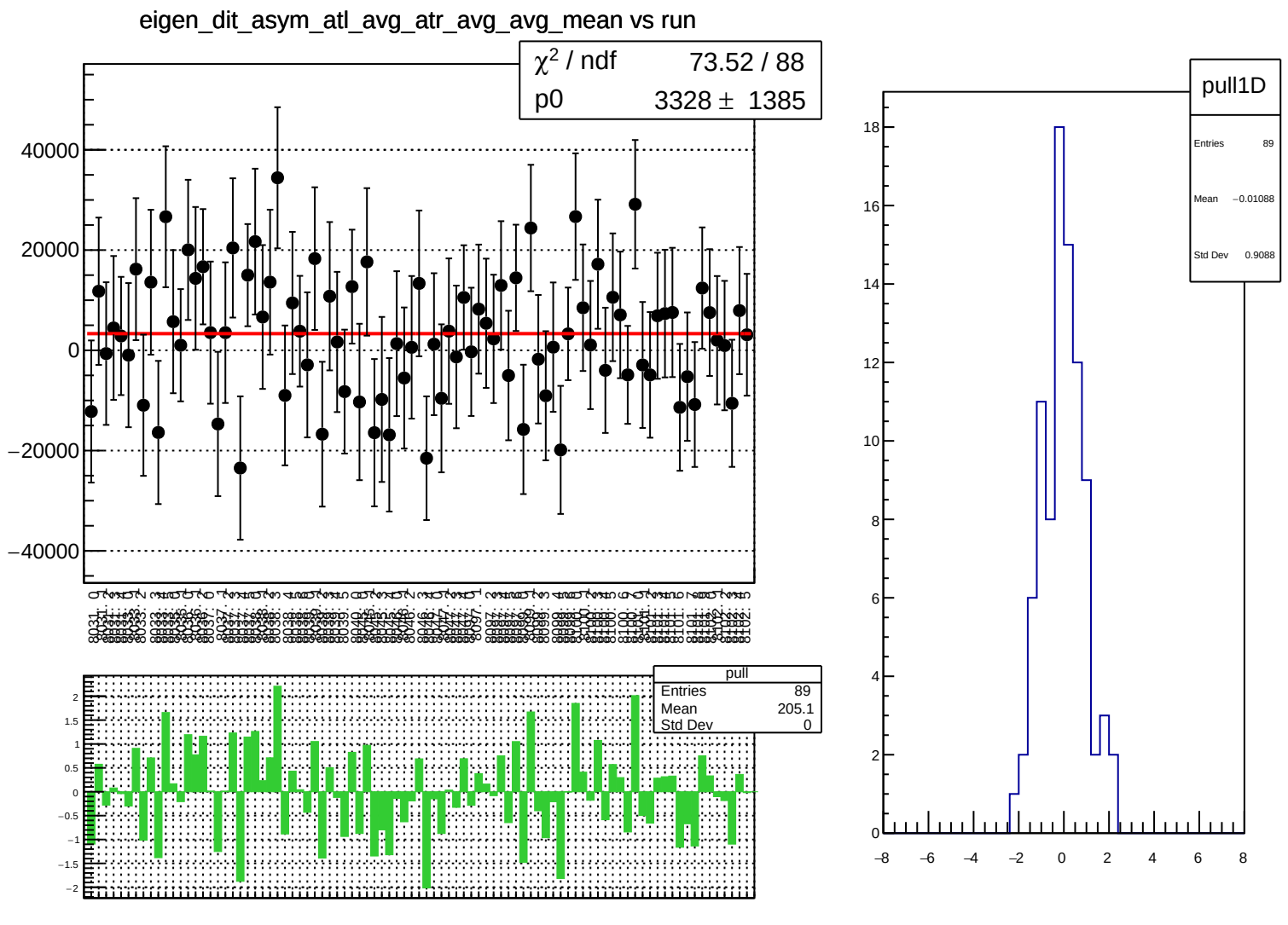

pull1D
Entries 89
Mean −0.01088
Std Dev 0.9088
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

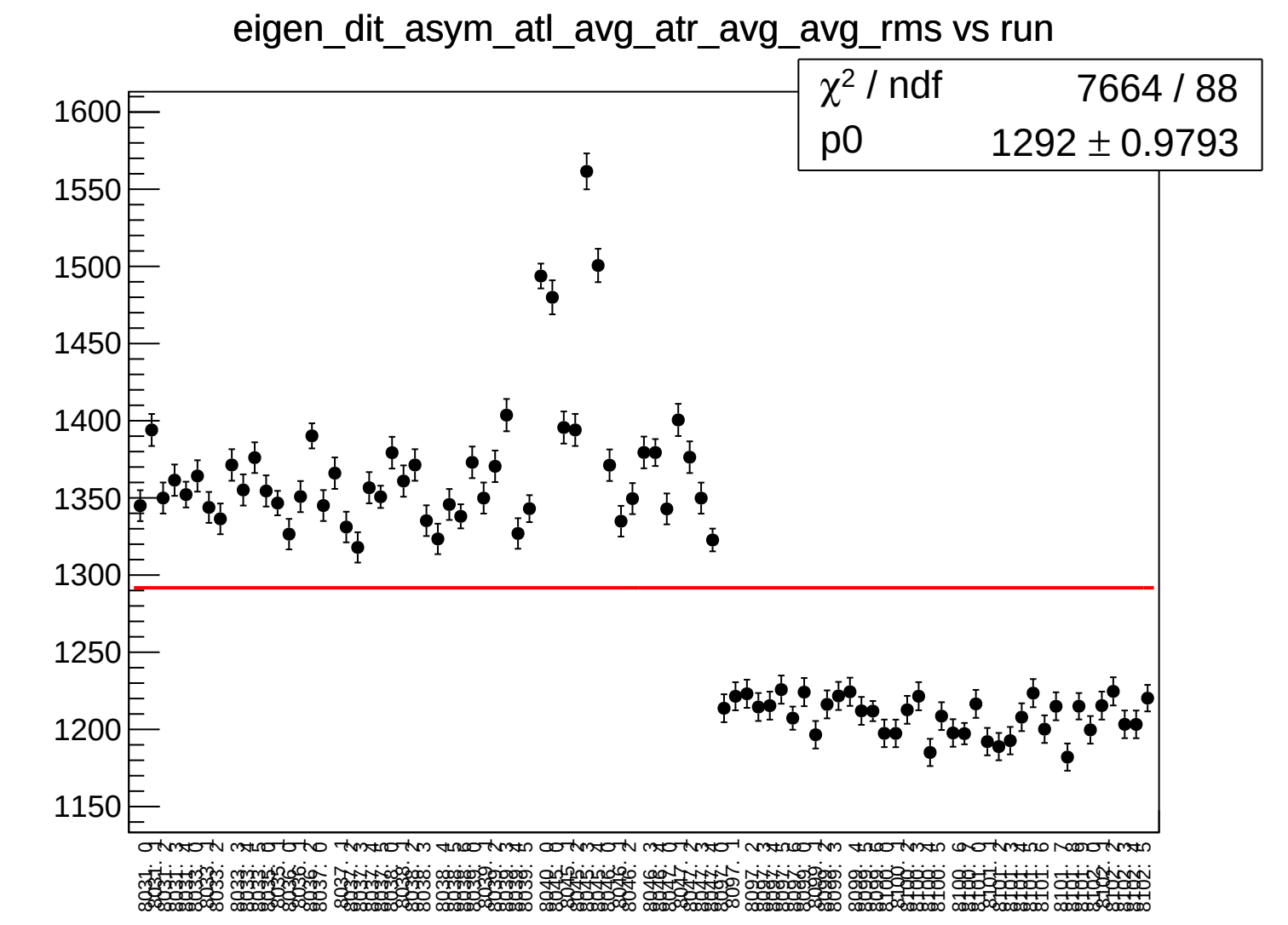

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 7664 / 88
p0 1292 ± 0.9793
1600
1550
1500
1450
1400
1350
1300
1250
1200
1150

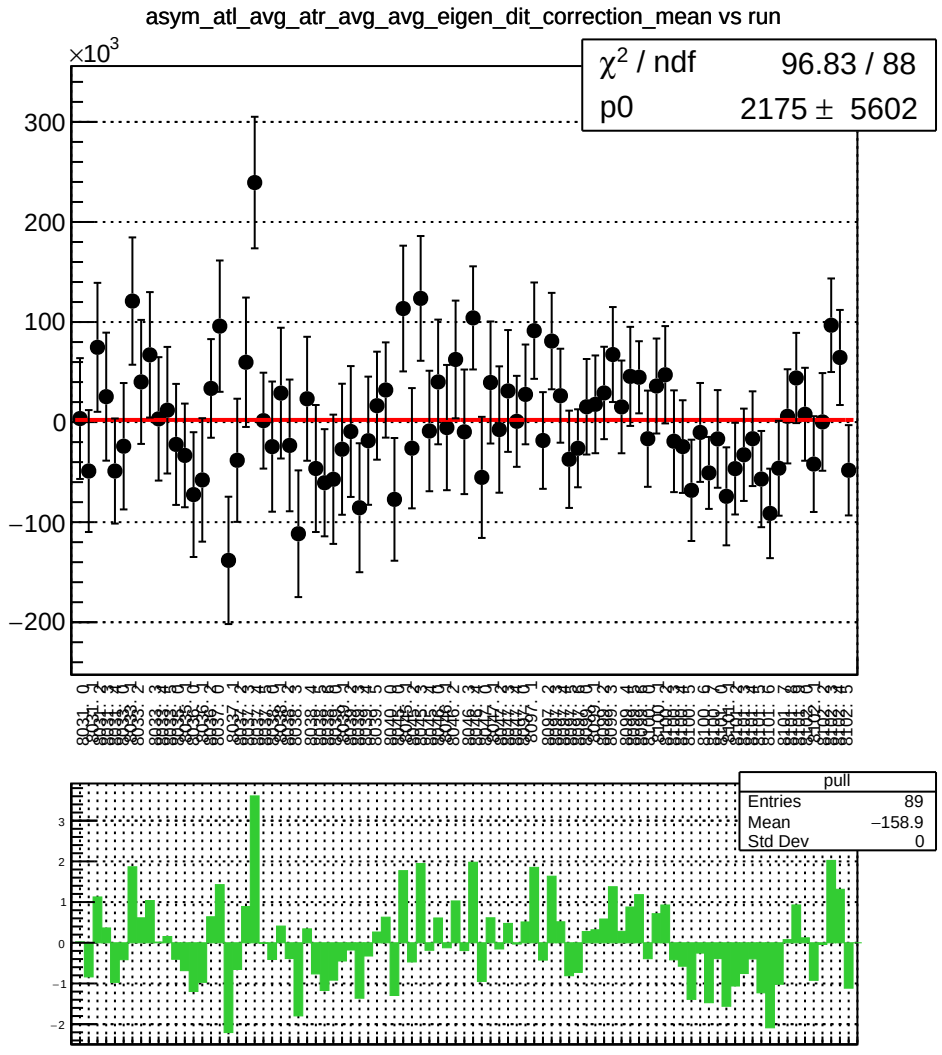

asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 96.83 / 88
p0 2175 ± 5602
300
200
100
0
−100
−200
pull
Entries 89
Mean −158.9
Std Dev 0
3
2
1
0
−1
−2

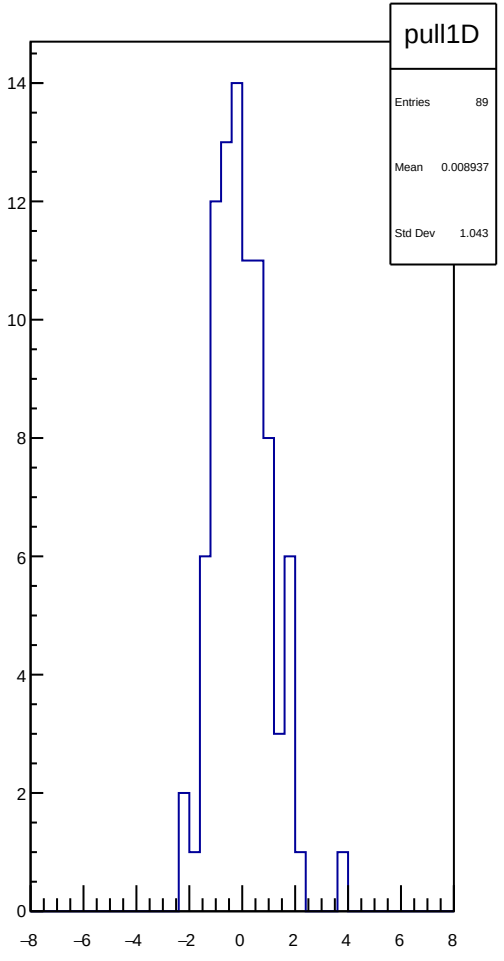

pull1D
Entries 89
Mean 0.008937
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

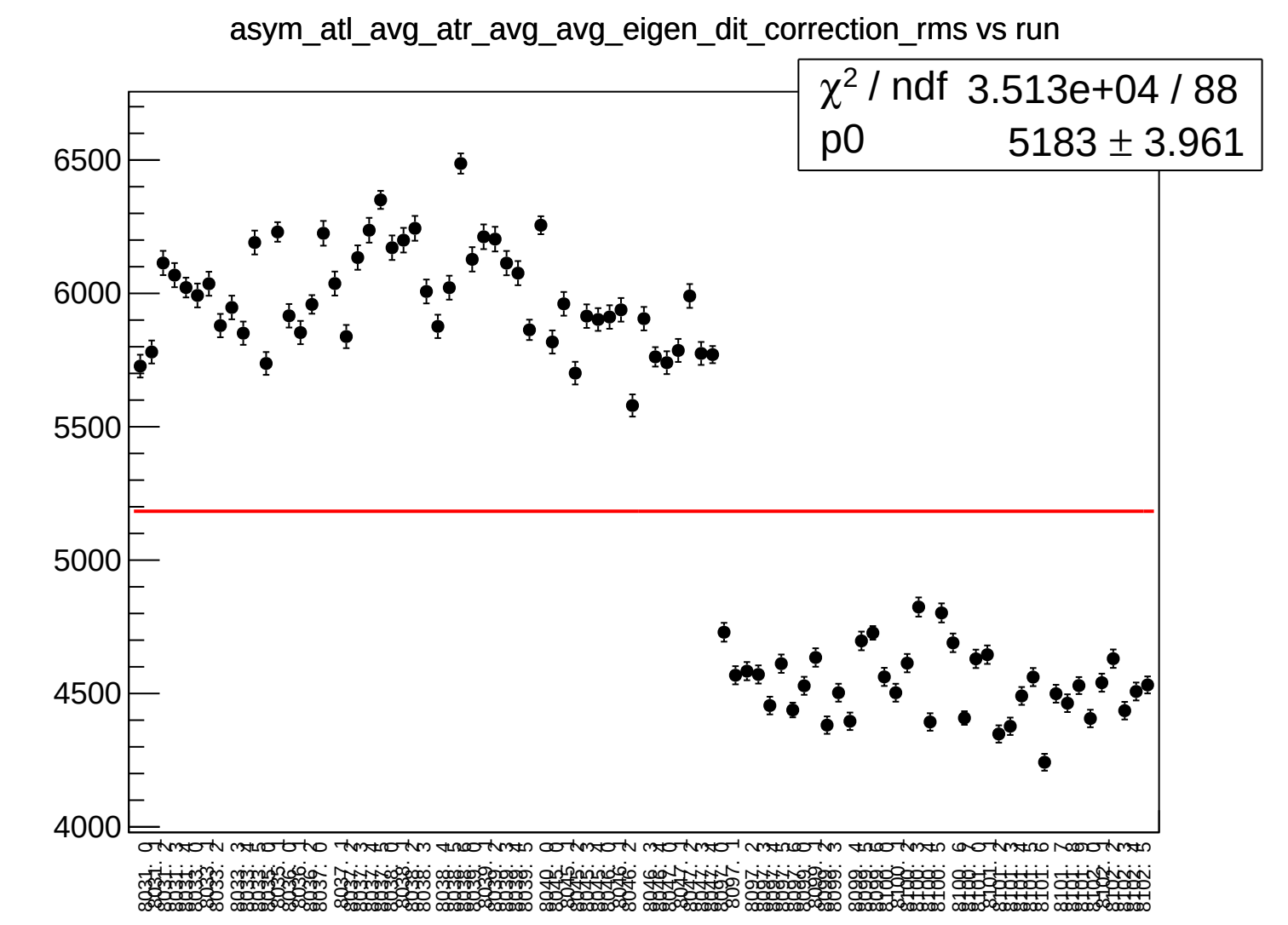

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ² / ndf 3.513e+04 / 88
p0 5183 ± 3.961
6500
6000
5500
5000
4500
4000

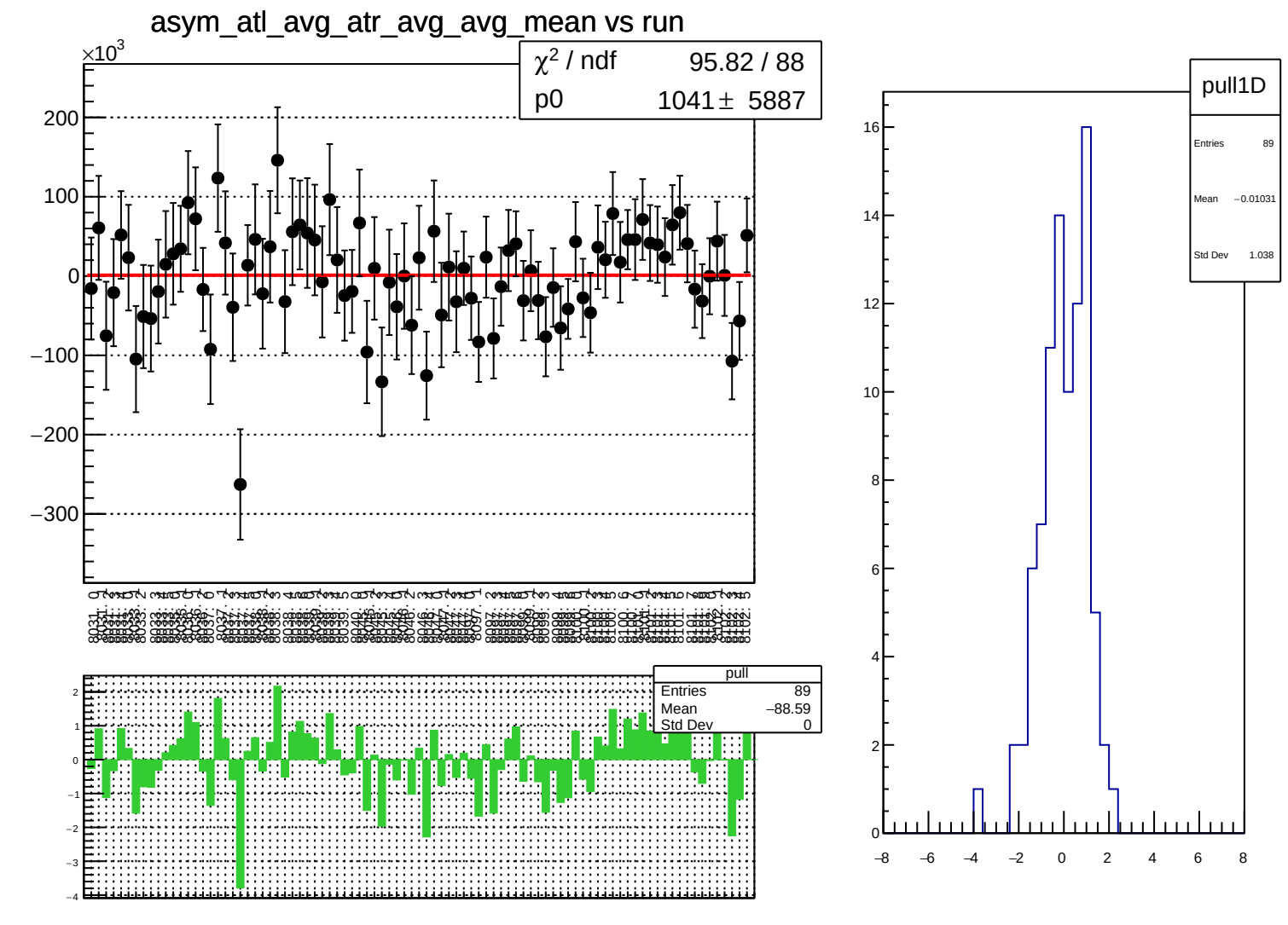

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 73.52 / 88
p0 3328 ± 1385
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 205.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.01088
Std Dev 0.9088
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

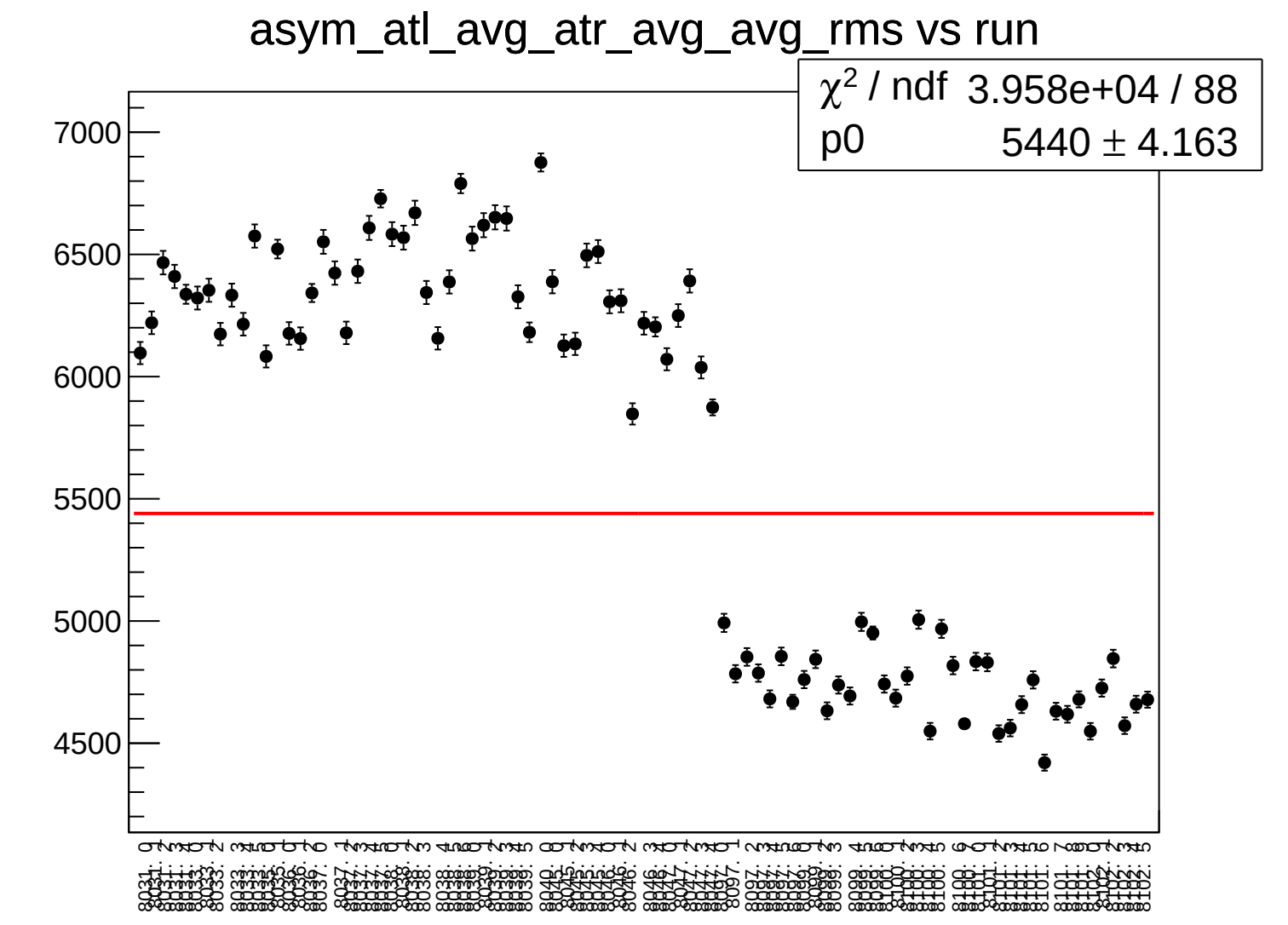

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 7664 / 88
p0 1292 ± 0.9793
1600
1550
1500
1450
1400
1350
1300
1250
1200
1150

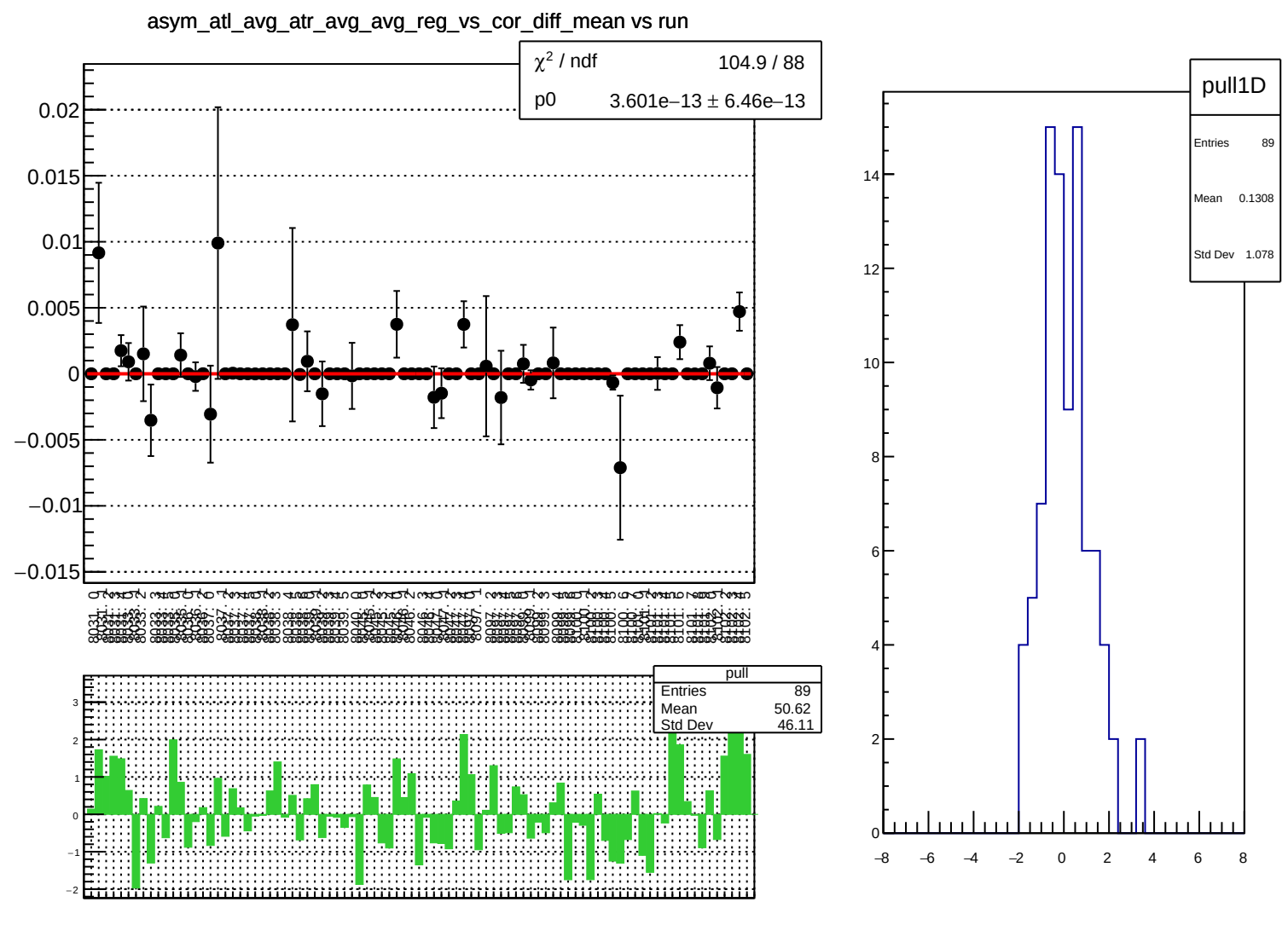

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.83 / 88
p0 2175 ± 5602
300
200
100
0
−100
−200
pull
Entries 89
Mean −158.9
Std Dev 0
3
2
1
0
−1
−2

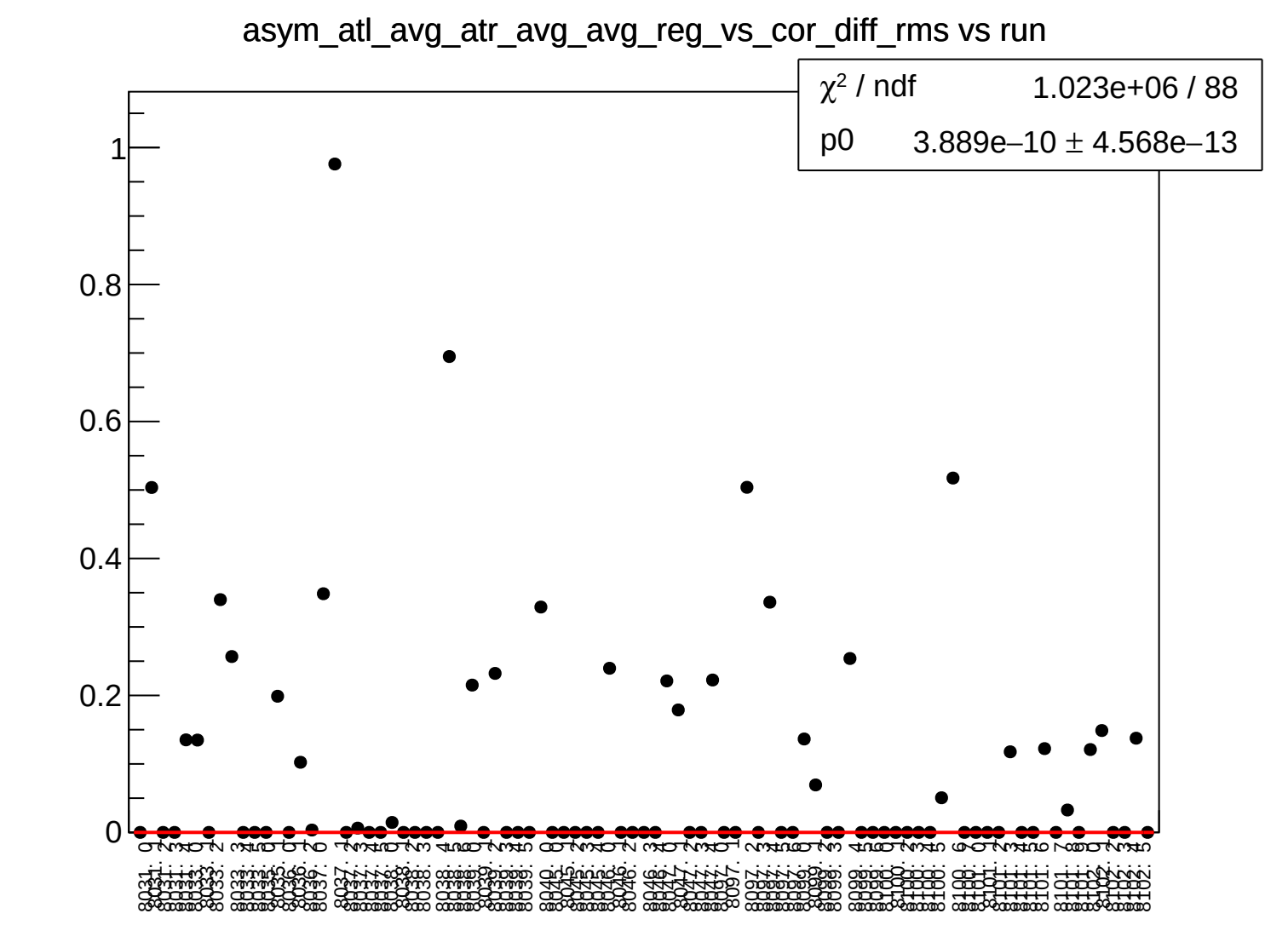

pull1D
Entries 89
Mean 0.008937
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

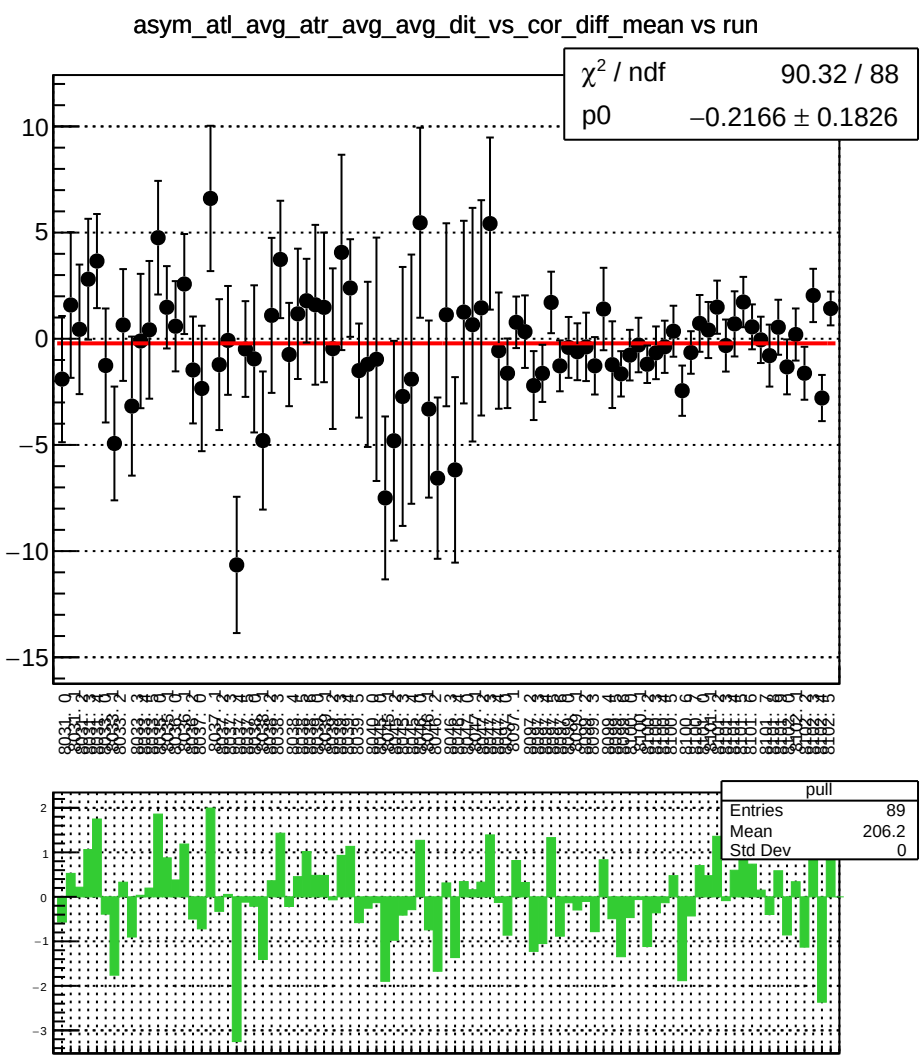

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.513e+04 / 88
p0 5183 ± 3.961
6500
6000
5500
5000
4500
4000

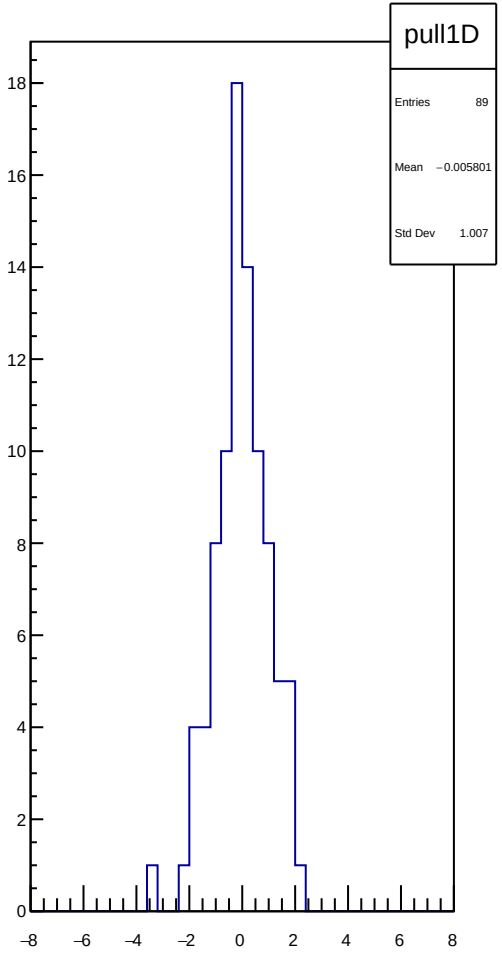

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 95.82 / 88
p0 1041 ± 5887
200
100
0
−100
−200
−300
pull
Entries 89
Mean −88.59
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 89
Mean −0.01031
Std Dev 1.038
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

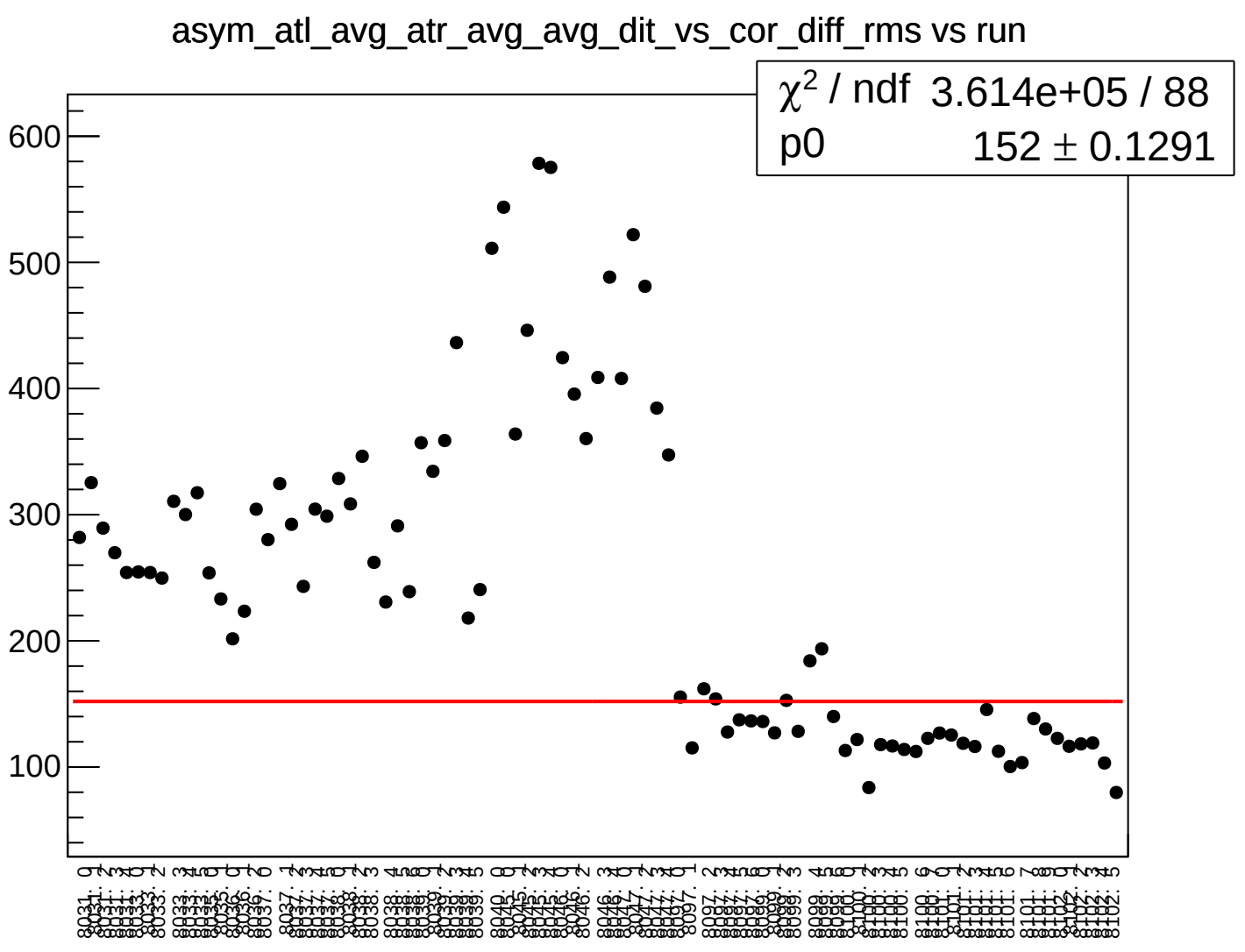

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 3.958e+04 / 88
p0 5440 ± 4.163
7000
6500
6000
5500
5000
4500

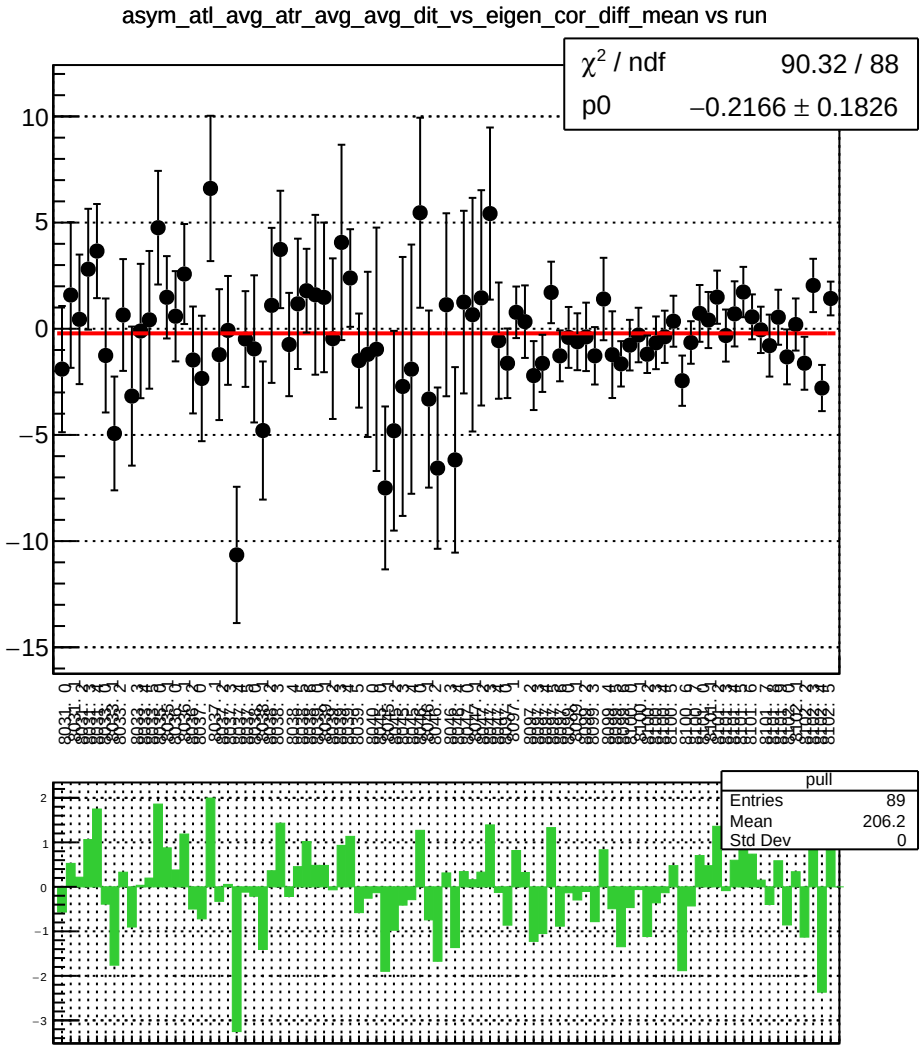

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 104.9 / 88
p0 3.601e−13 ± 6.46e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 89
Mean 50.62
Std Dev 46.11
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.1308
Std Dev 1.078
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

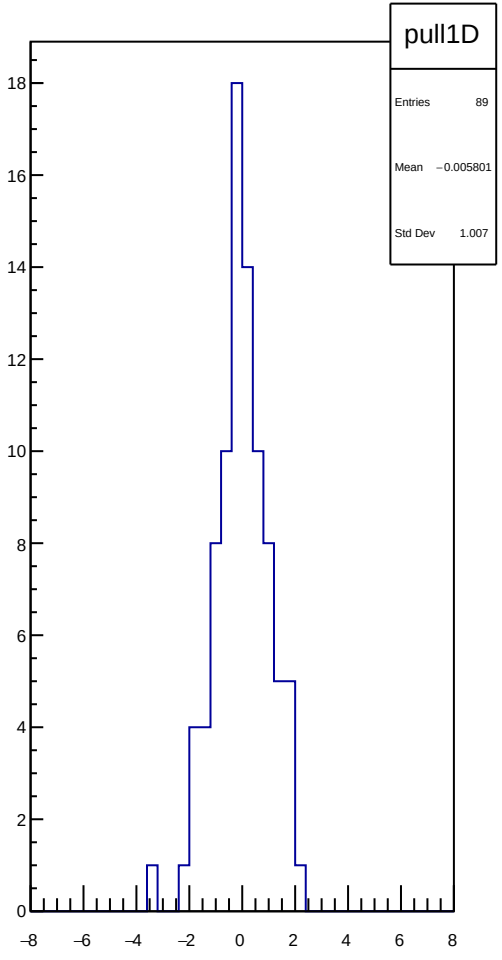

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.023e+06 / 88
p0 3.889e−10 ± 4.568e−13
1
0.8
0.6
0.4
0.2
0

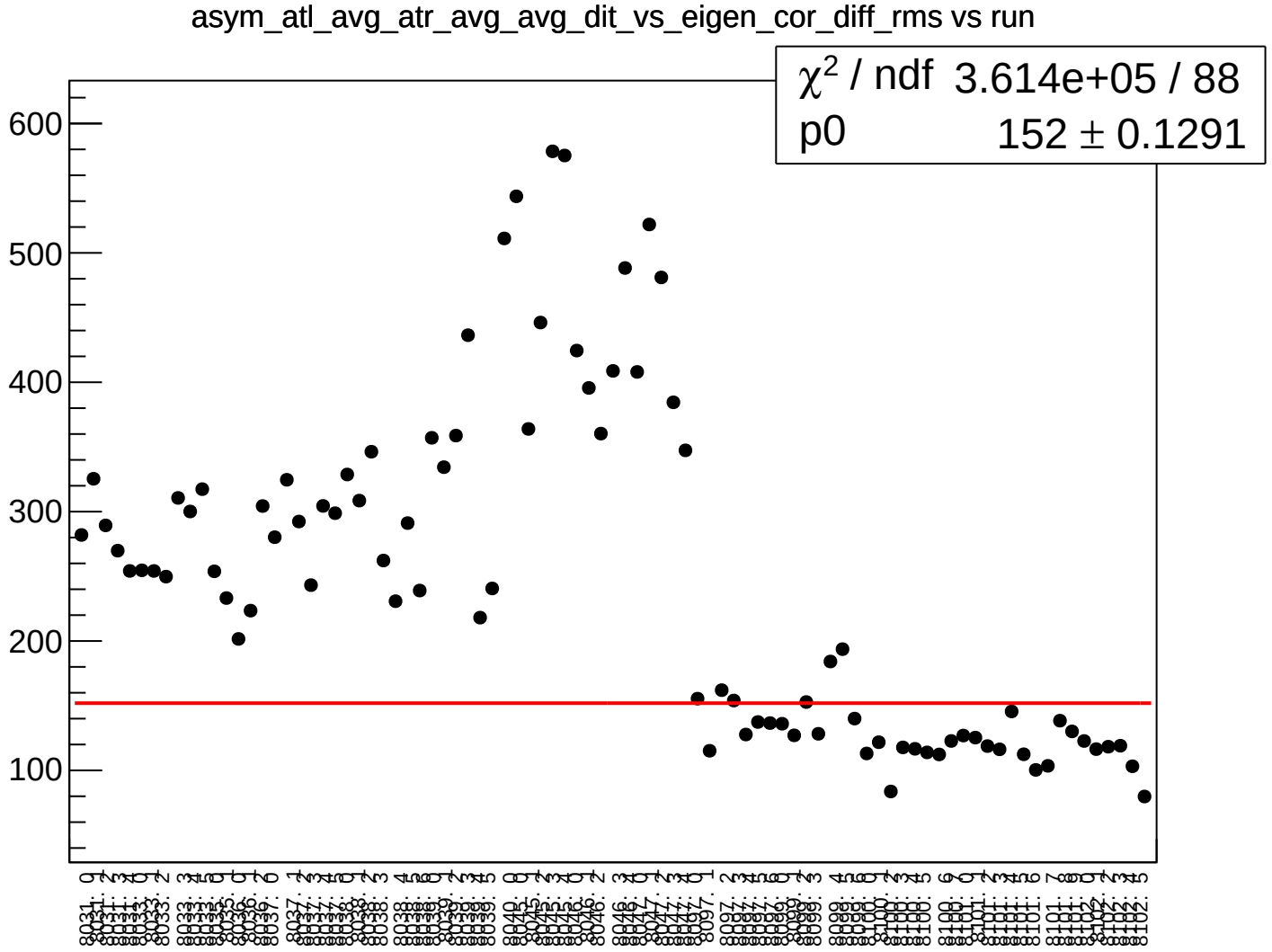

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 90.32 / 88
p0 −0.2166 ± 0.1826
pull
Entries 89
Mean 206.2
Std Dev 0

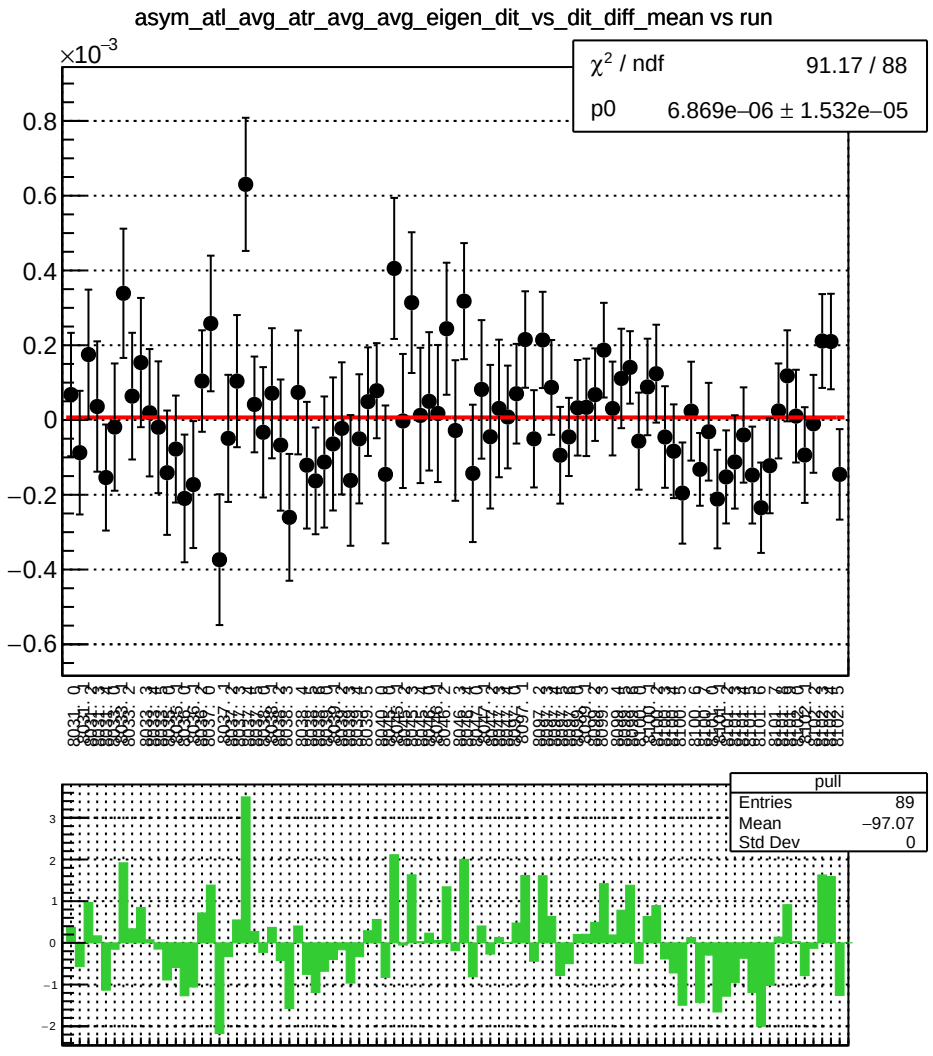

pull1D
Entries 89
Mean −0.005801
Std Dev 1.007

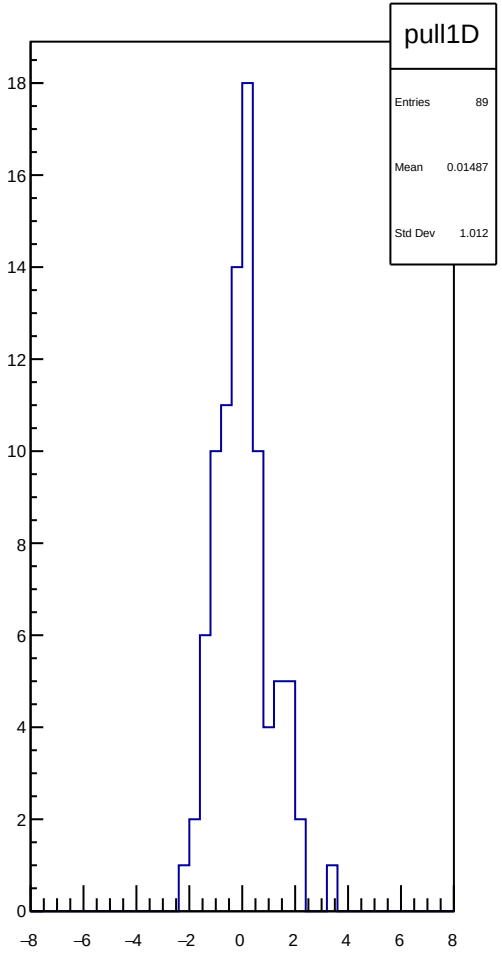

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.614e+05 / 88
p0 152 ± 0.1291
600
500
400
300
200
100

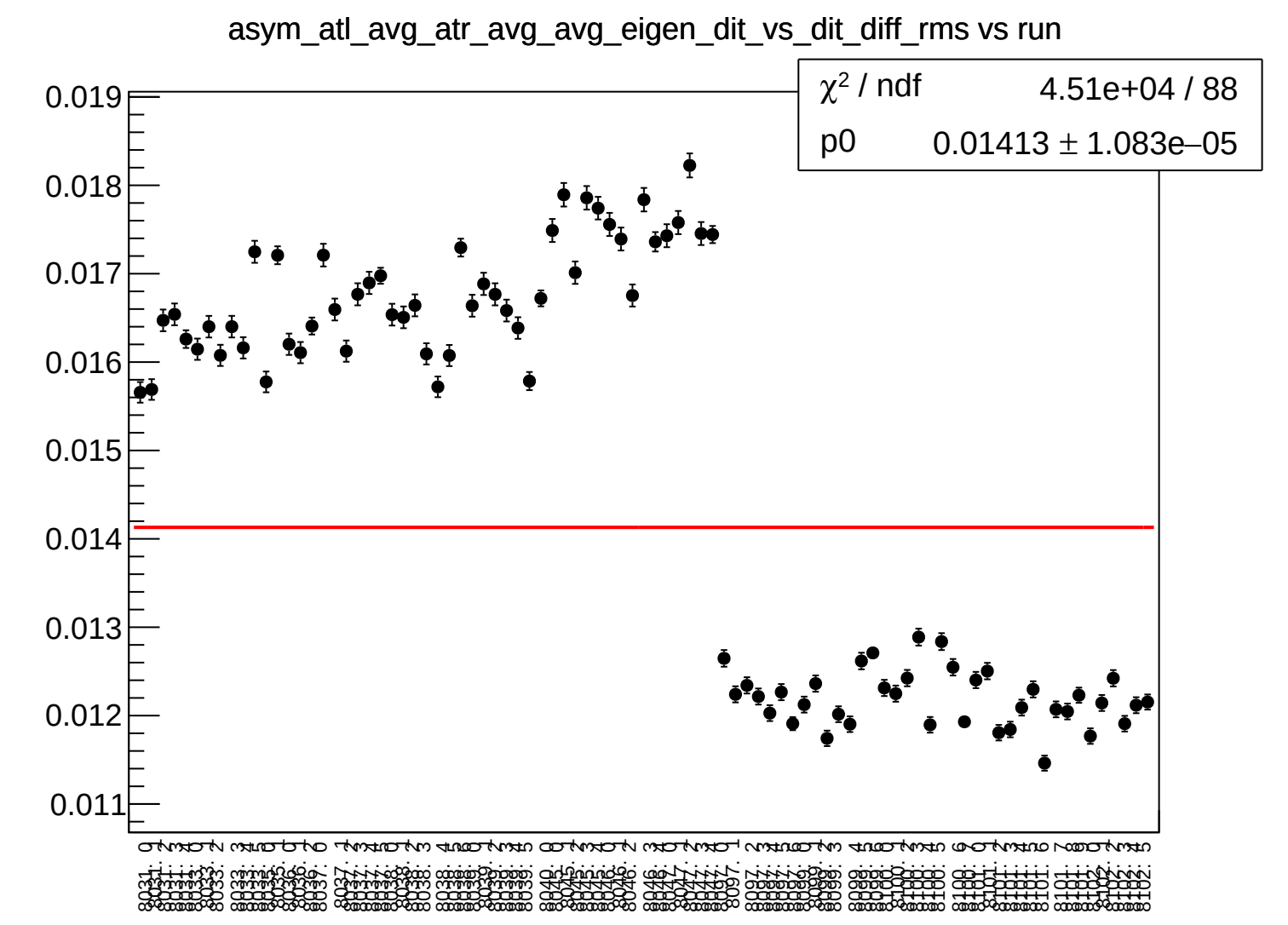

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.32 / 88
p0 −0.2166 ± 0.1826
pull
Entries 89
Mean 206.2
Std Dev 0

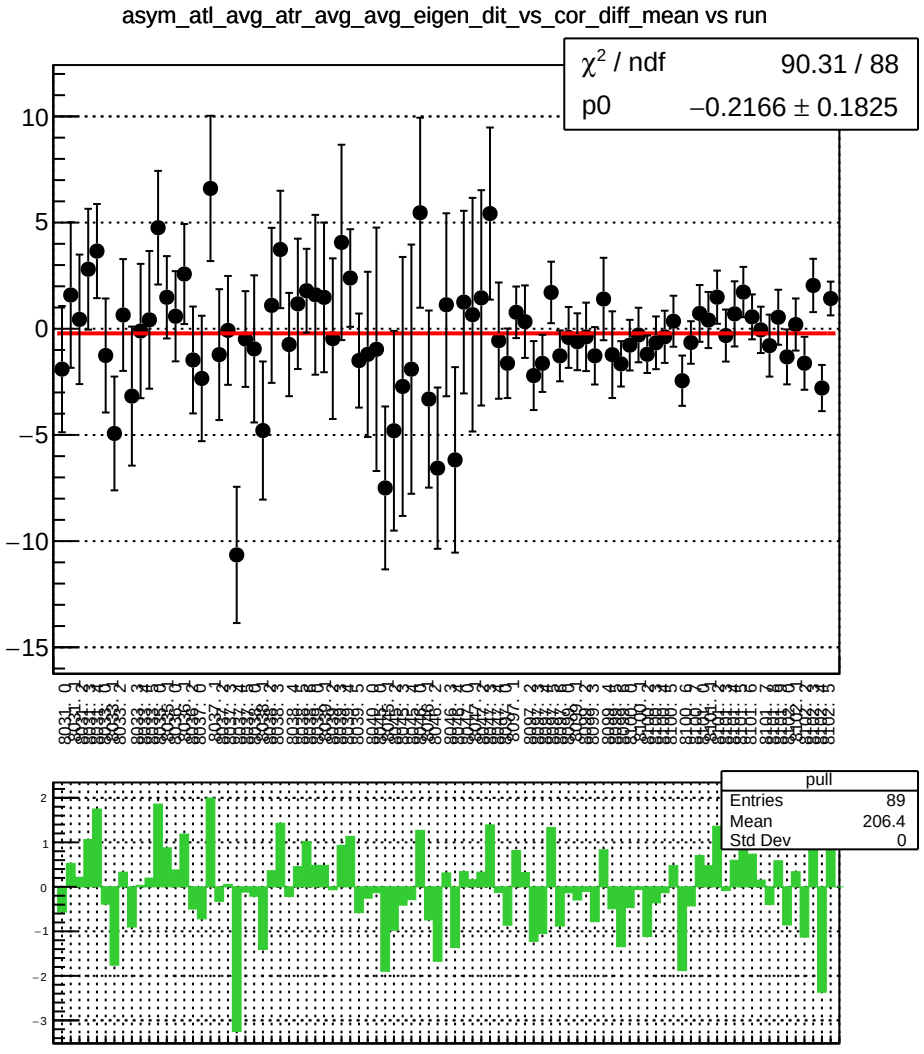

pull1D
Entries 89
Mean −0.005801
Std Dev 1.007

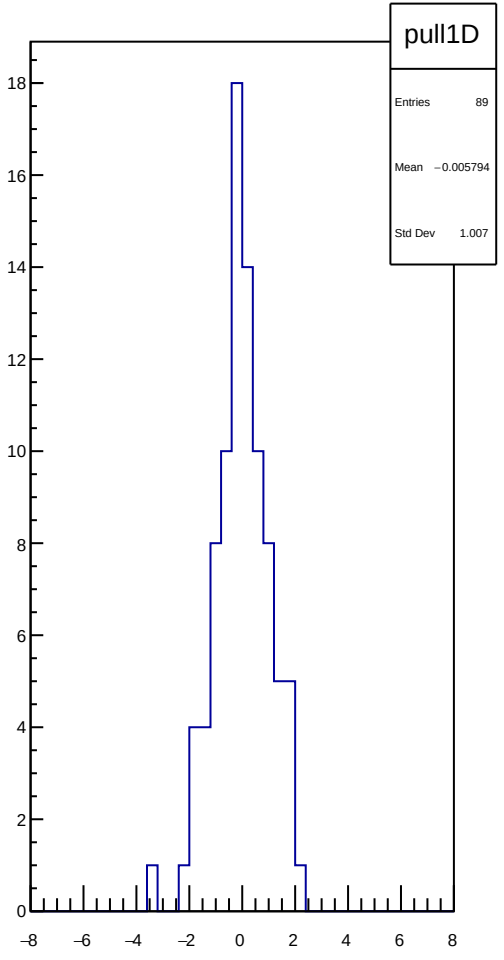

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 3.614e+05 / 88
p0 152 ± 0.1291
600
500
400
300
200
100

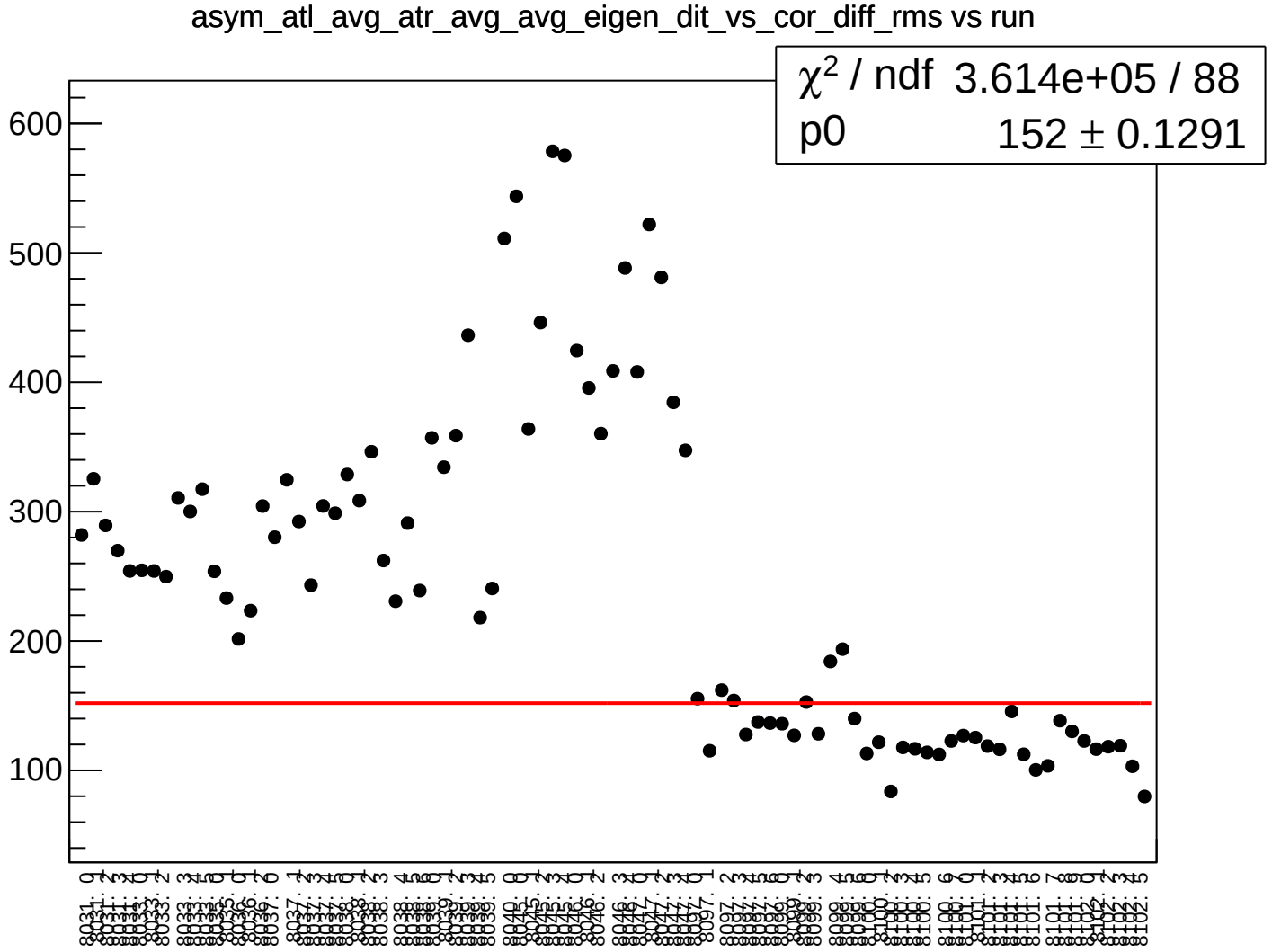

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.17 / 88
p0 6.869e−06 ± 1.532e−05
pull
Entries 89
Mean −97.07
Std Dev 0

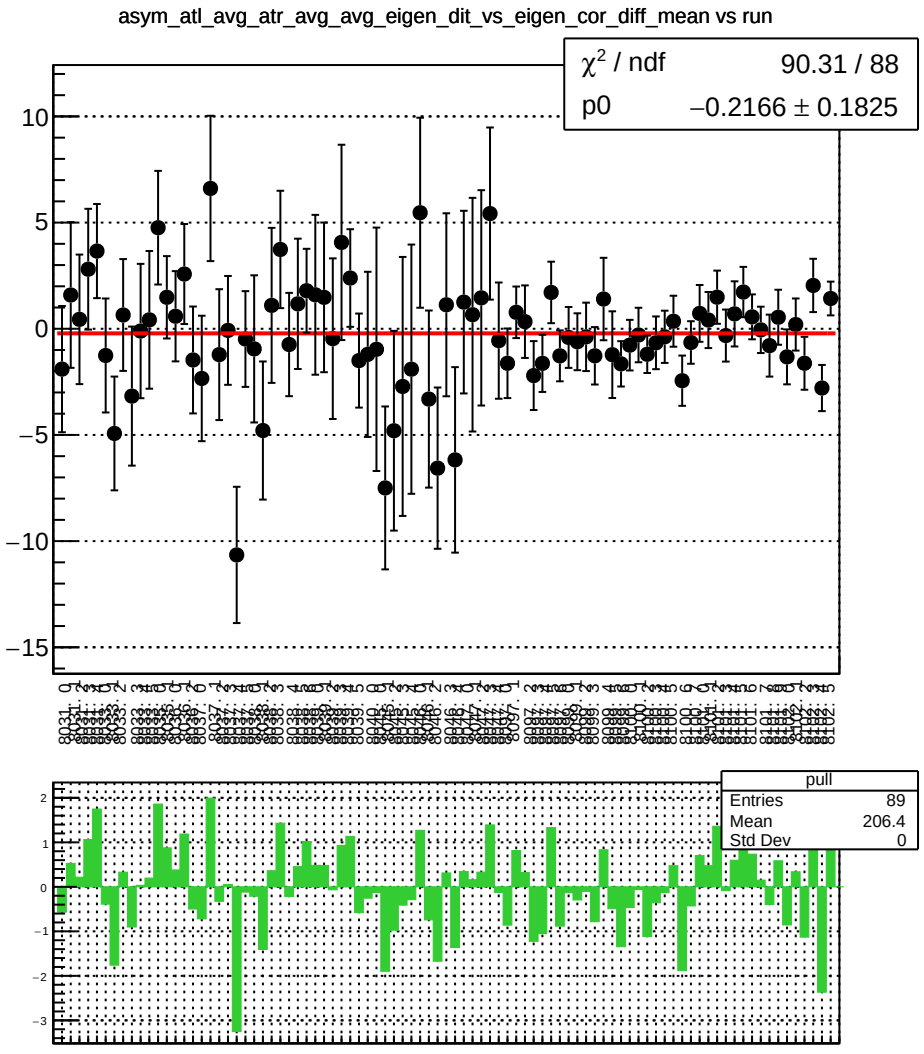

pull1D
Entries 89
Mean 0.01487
Std Dev 1.012

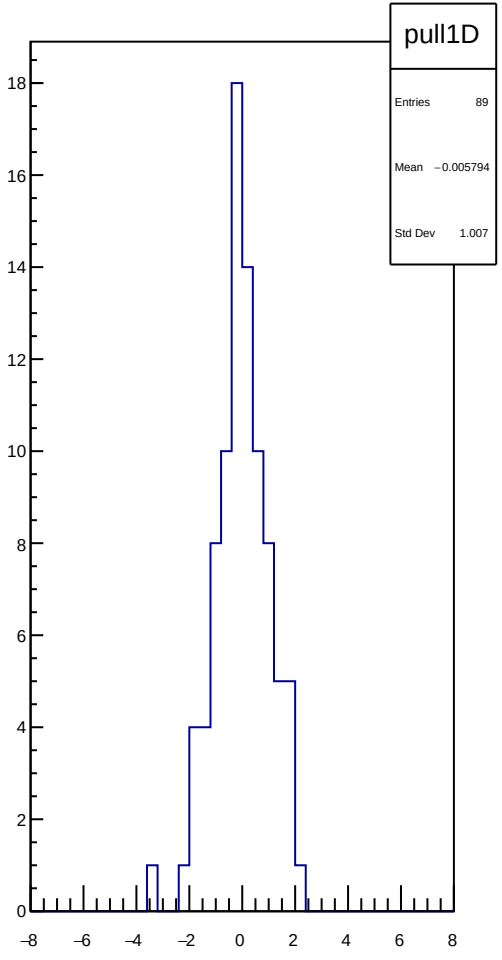

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.51e+04 / 88
p0 0.01413 ± 1.083e−05
0.019
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011

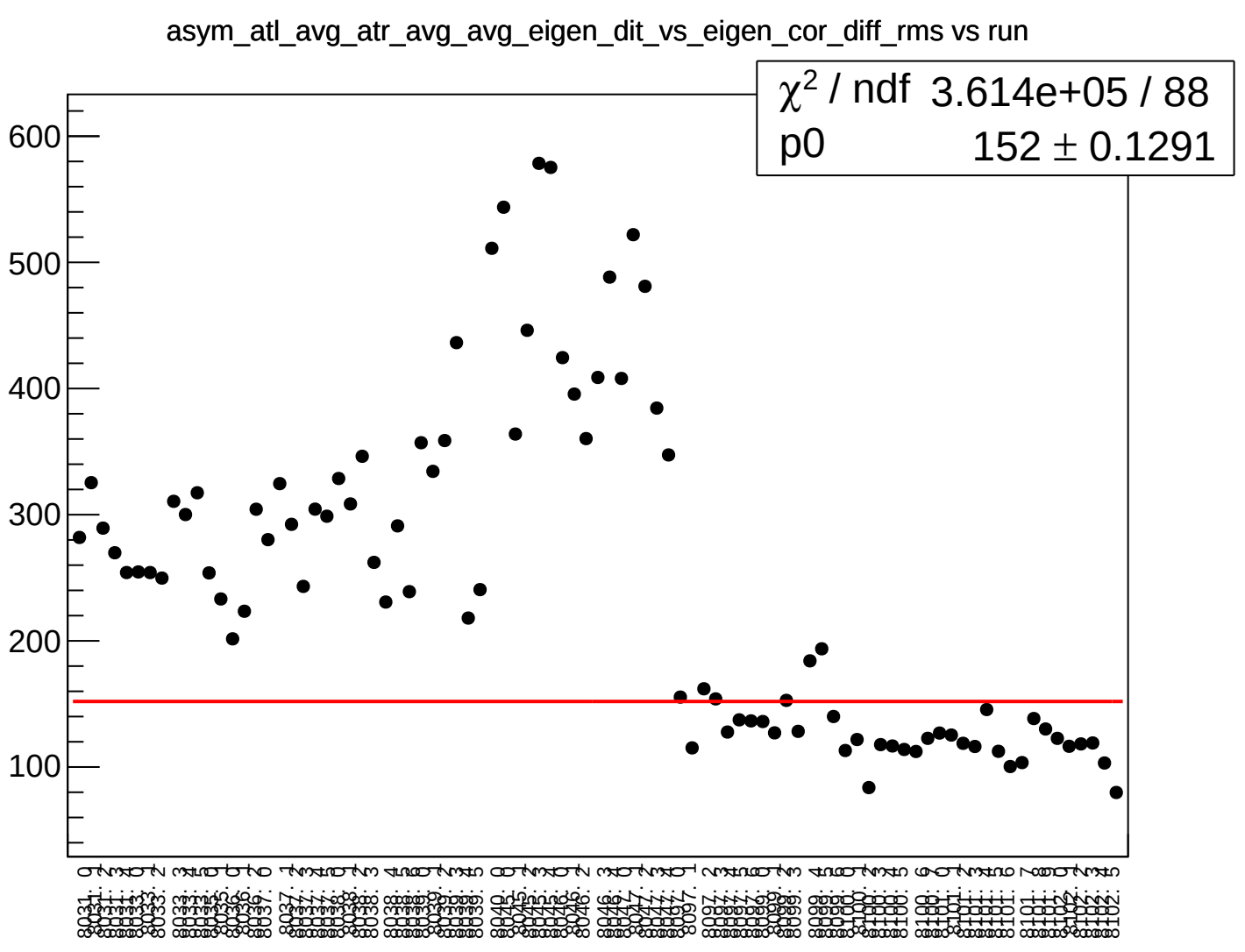

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.31 / 88
p0 −0.2166 ± 0.1825
pull
Entries 89
Mean 206.4
Std Dev 0

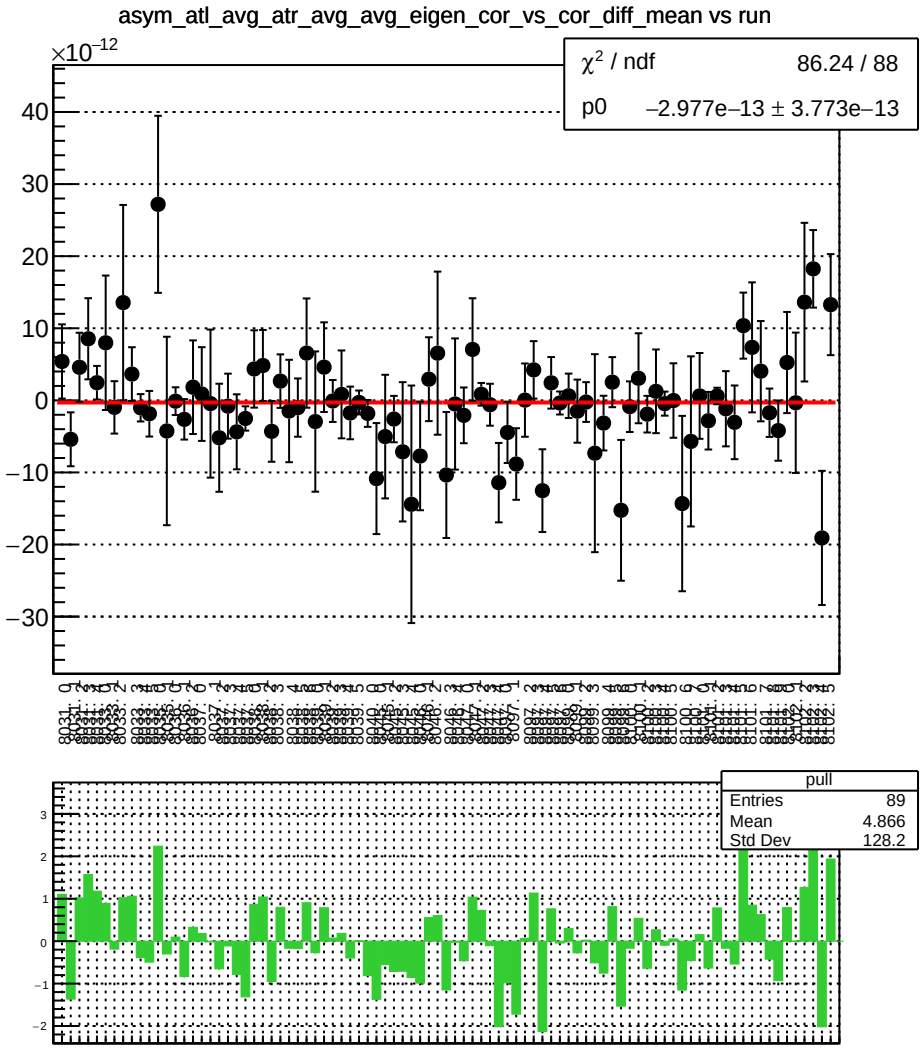

pull1D
Entries 89
Mean −0.005794
Std Dev 1.007

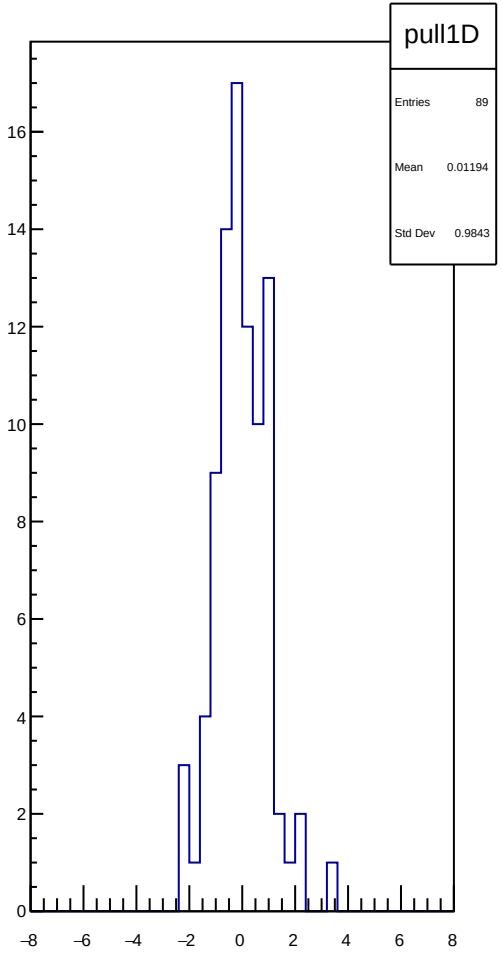

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.614e+05 / 88
p0 152 ± 0.1291
600
500
400
300
200
100

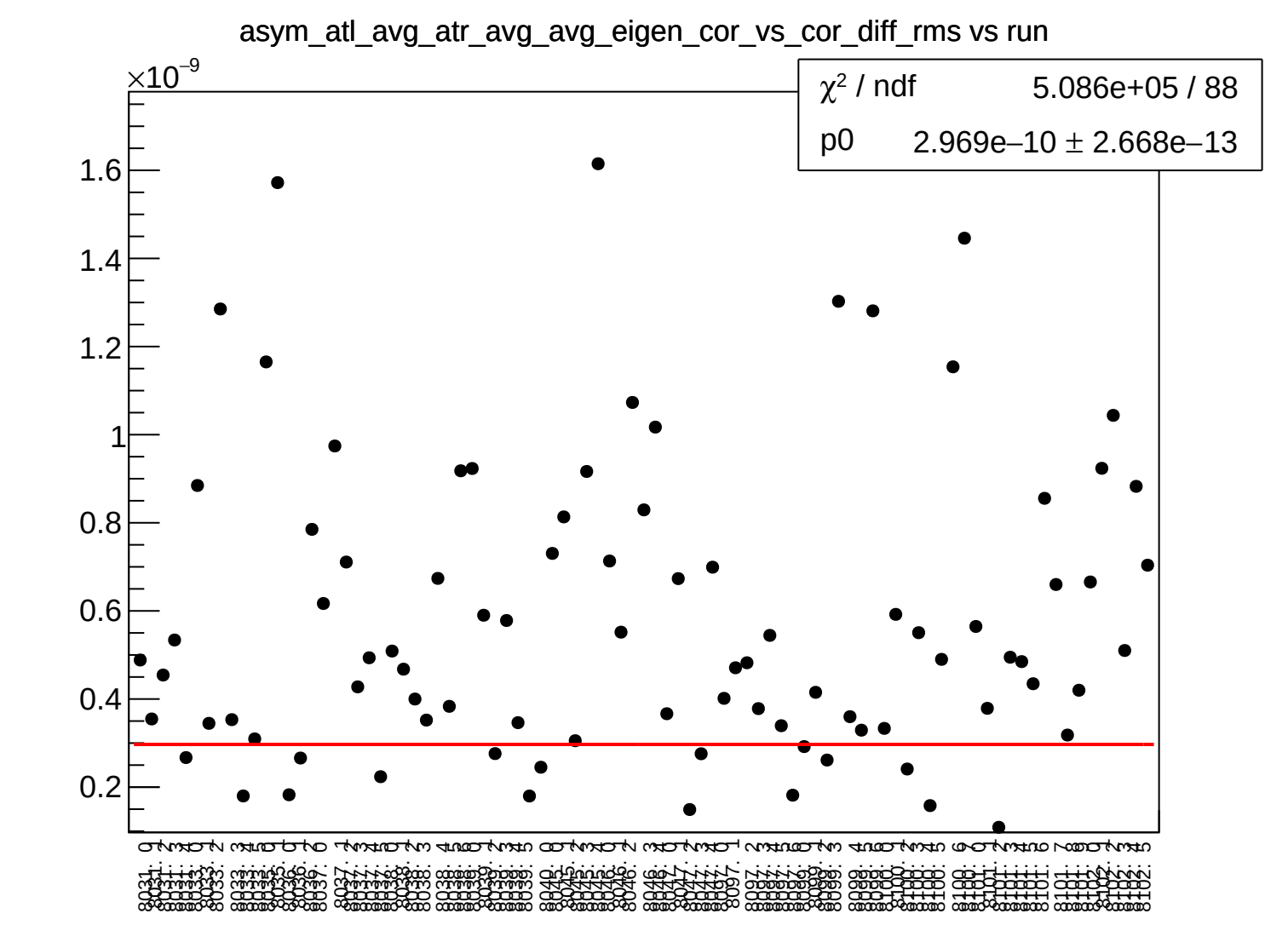

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.31 / 88
p0 −0.2166 ± 0.1825
pull
Entries 89
Mean 206.4
Std Dev 0

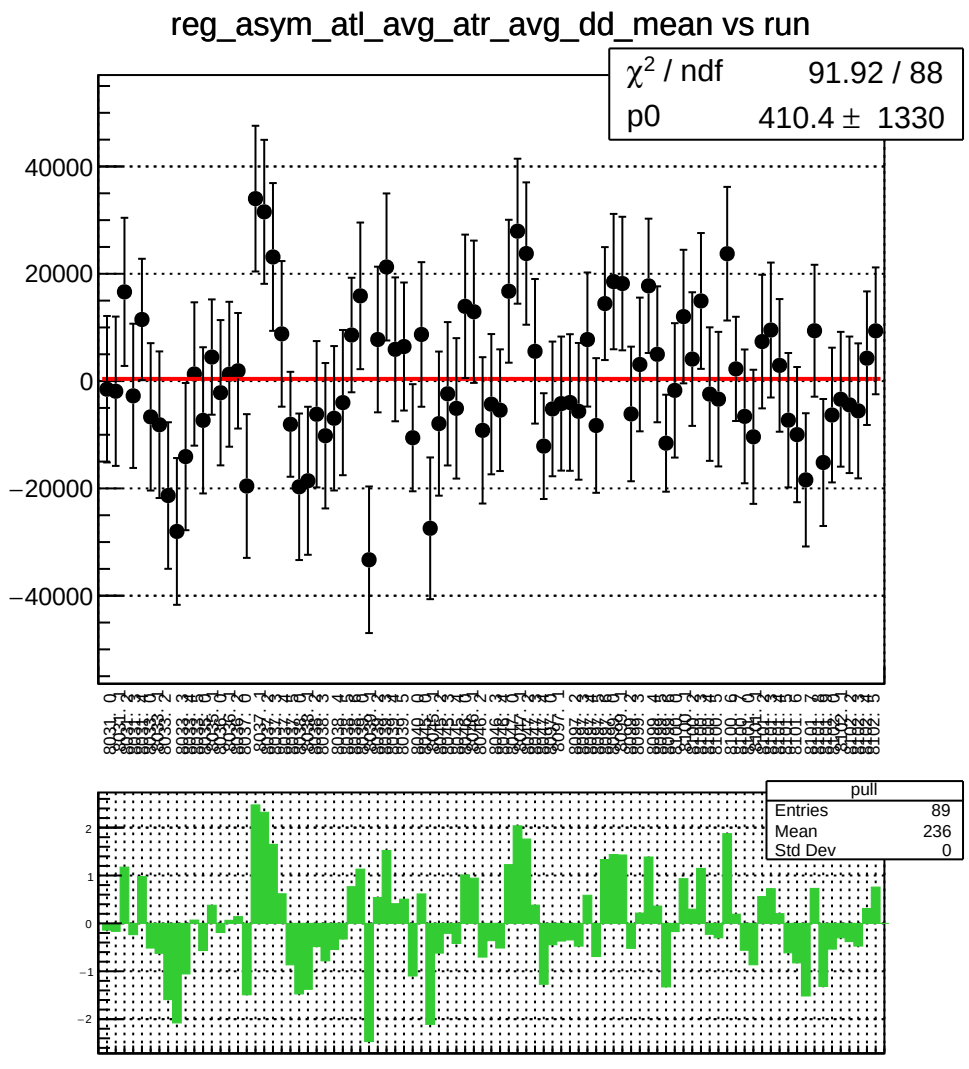

pull1D
Entries 89
Mean −0.005794
Std Dev 1.007

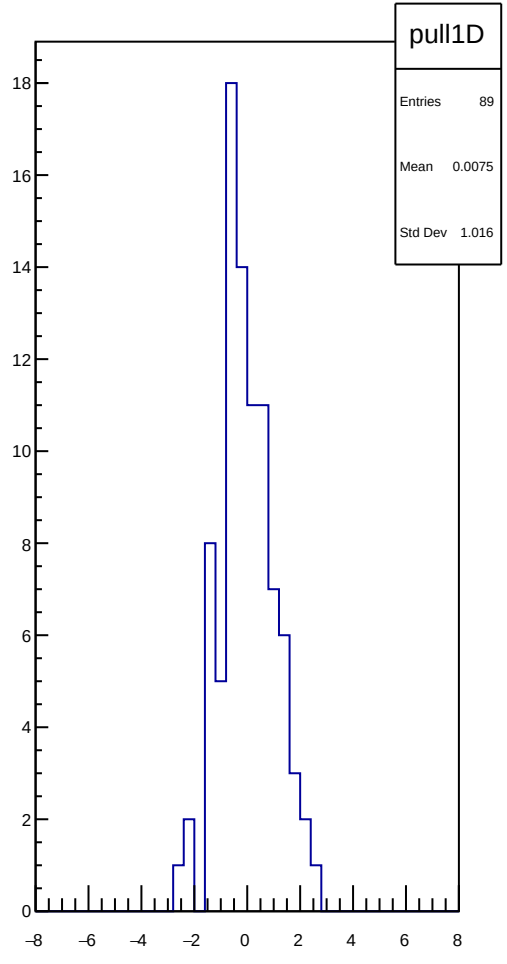

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.614e+05 / 88
p0 152 ± 0.1291
600
500
400
300
200
100

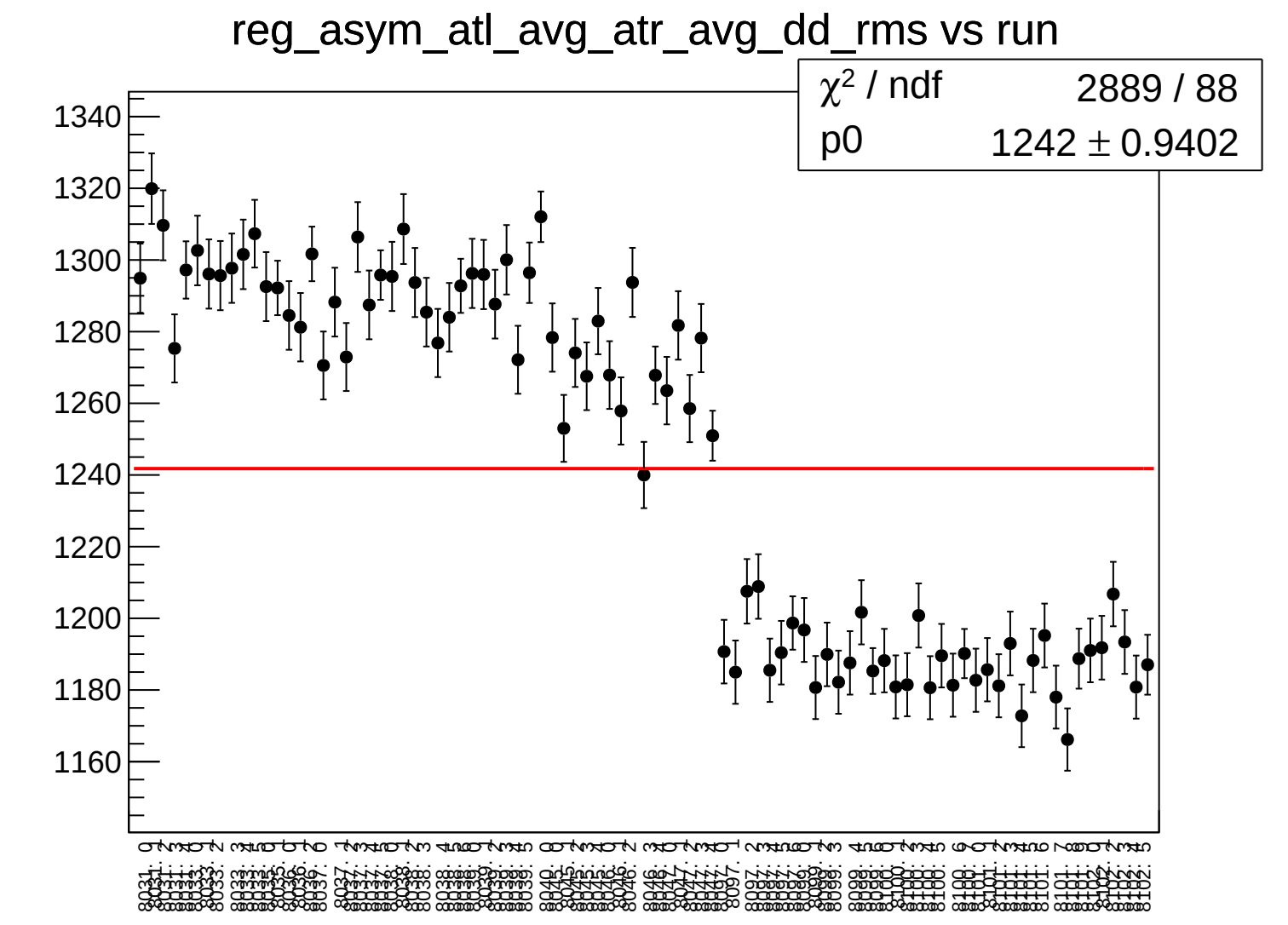

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.24 / 88
p0 −2.977e−13 ± 3.773e−13
pull
Entries 89
Mean 4.866
Std Dev 128.2

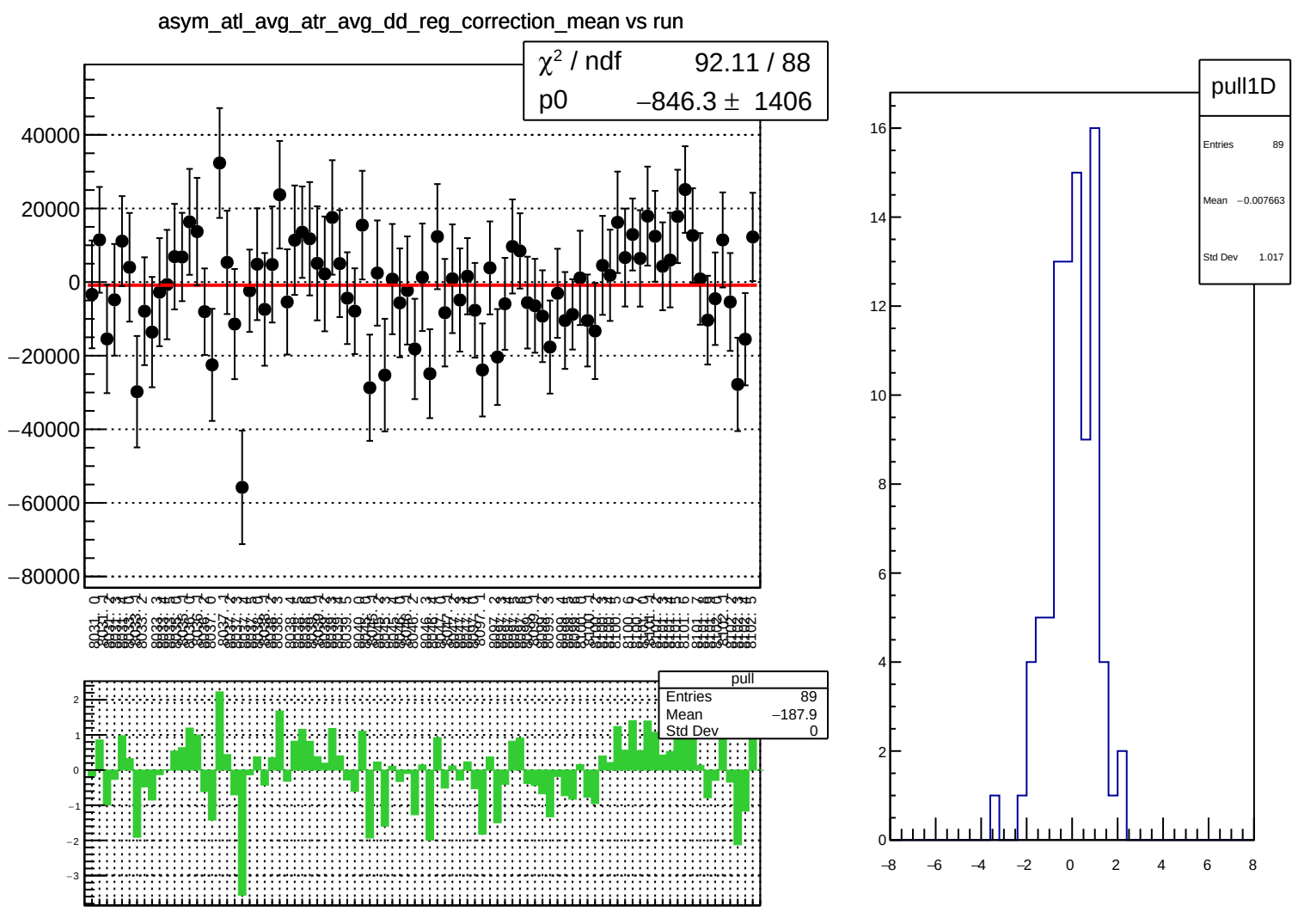

pull1D
Entries 89
Mean 0.01194
Std Dev 0.9843

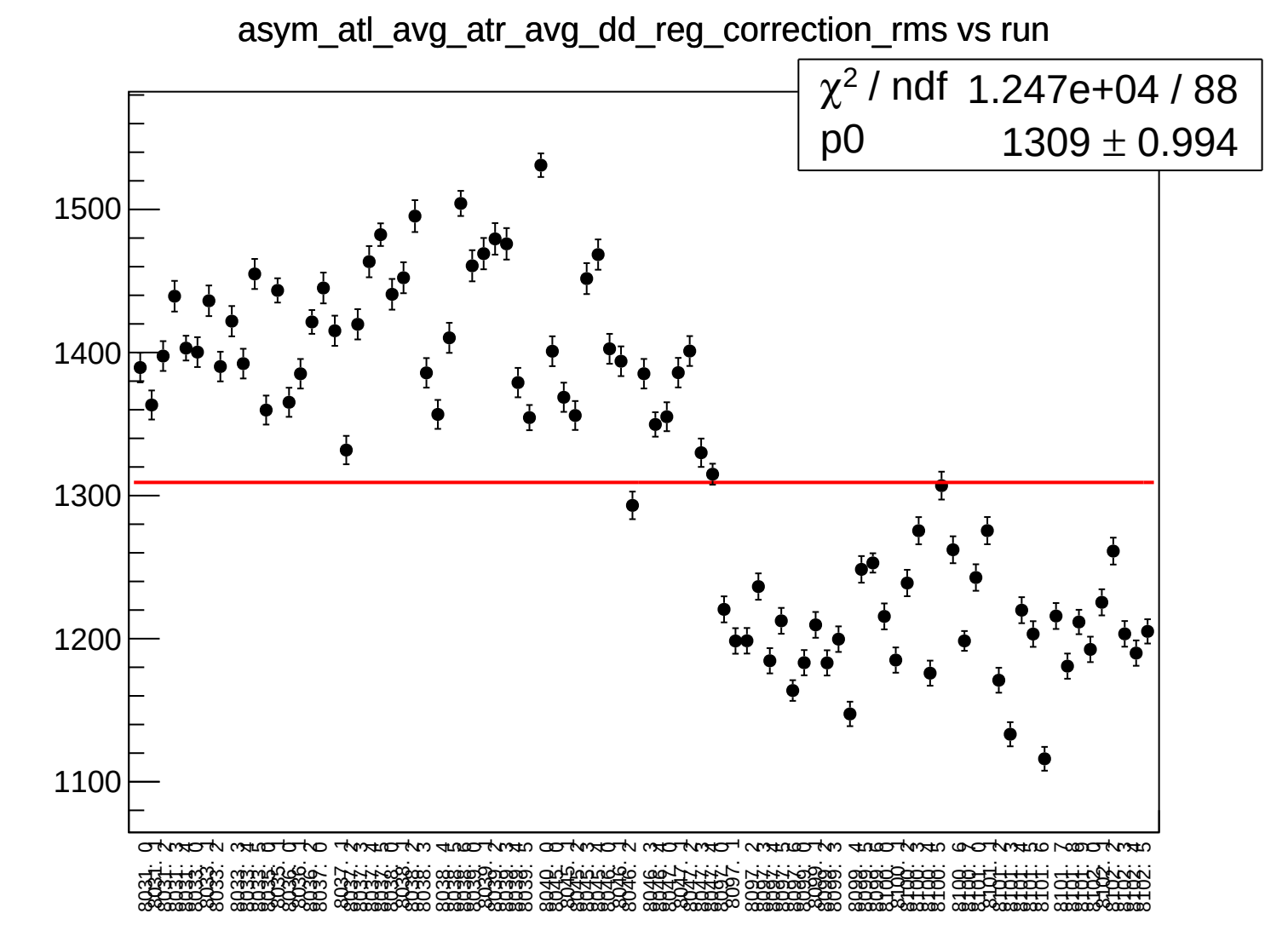

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.086e+05 / 88
p0 2.969e−10 ± 2.668e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

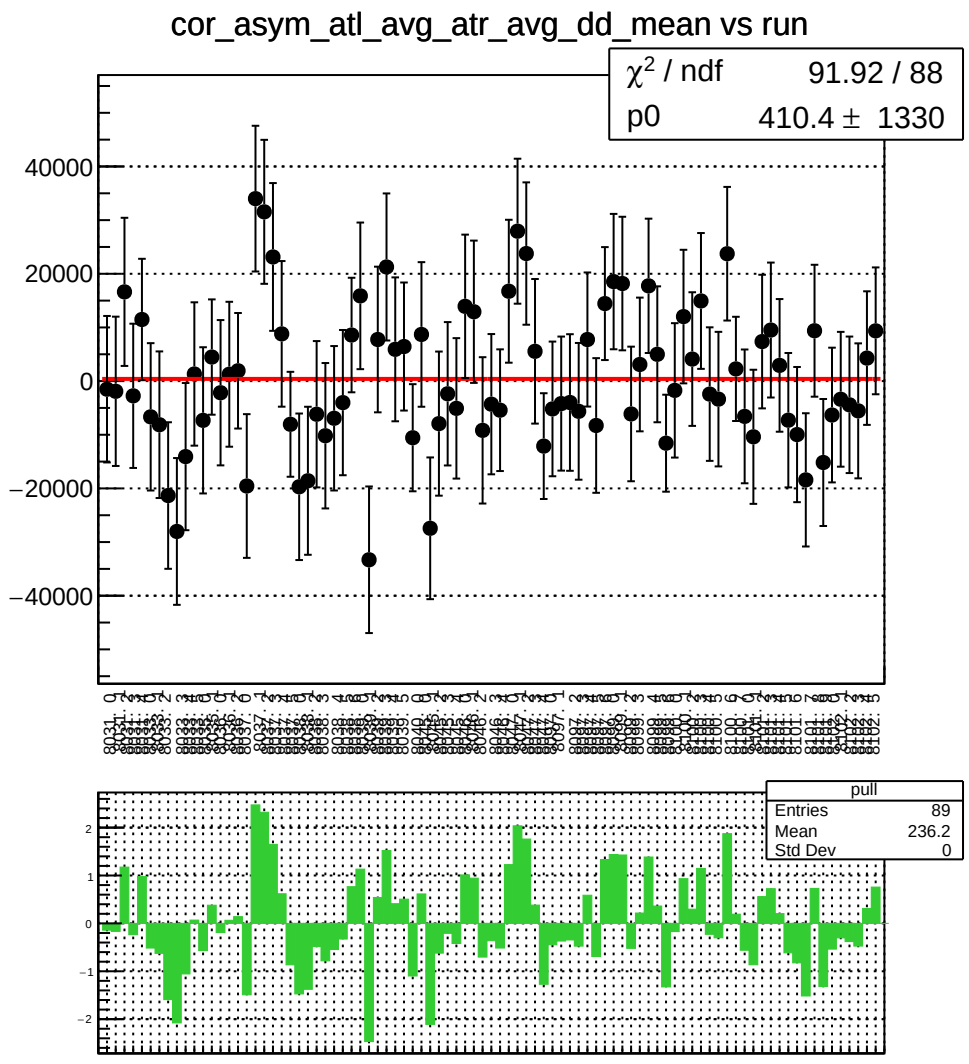

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 91.92 / 88
p0 410.4 ± 1330
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 236
Std Dev 0
2
1
0
−1
−2

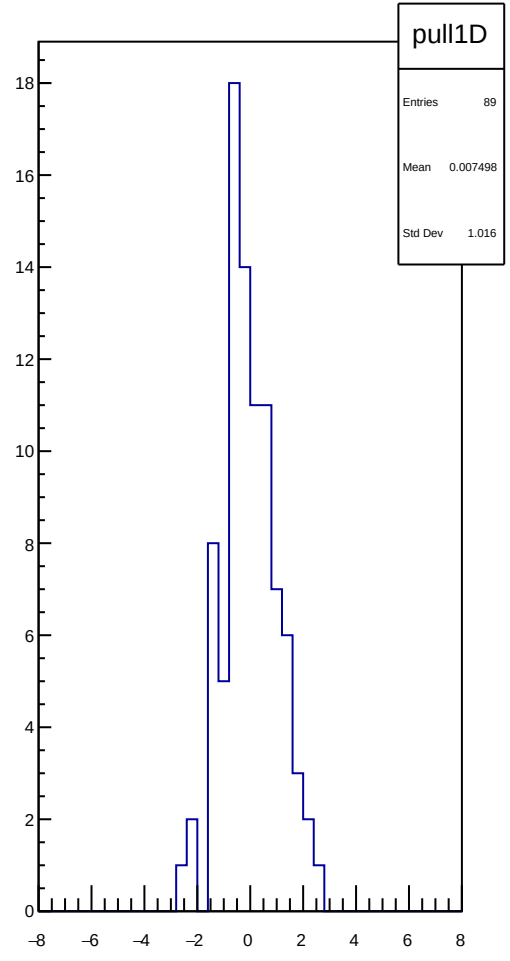

pull1D
Entries 89
Mean 0.0075
Std Dev 1.016
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

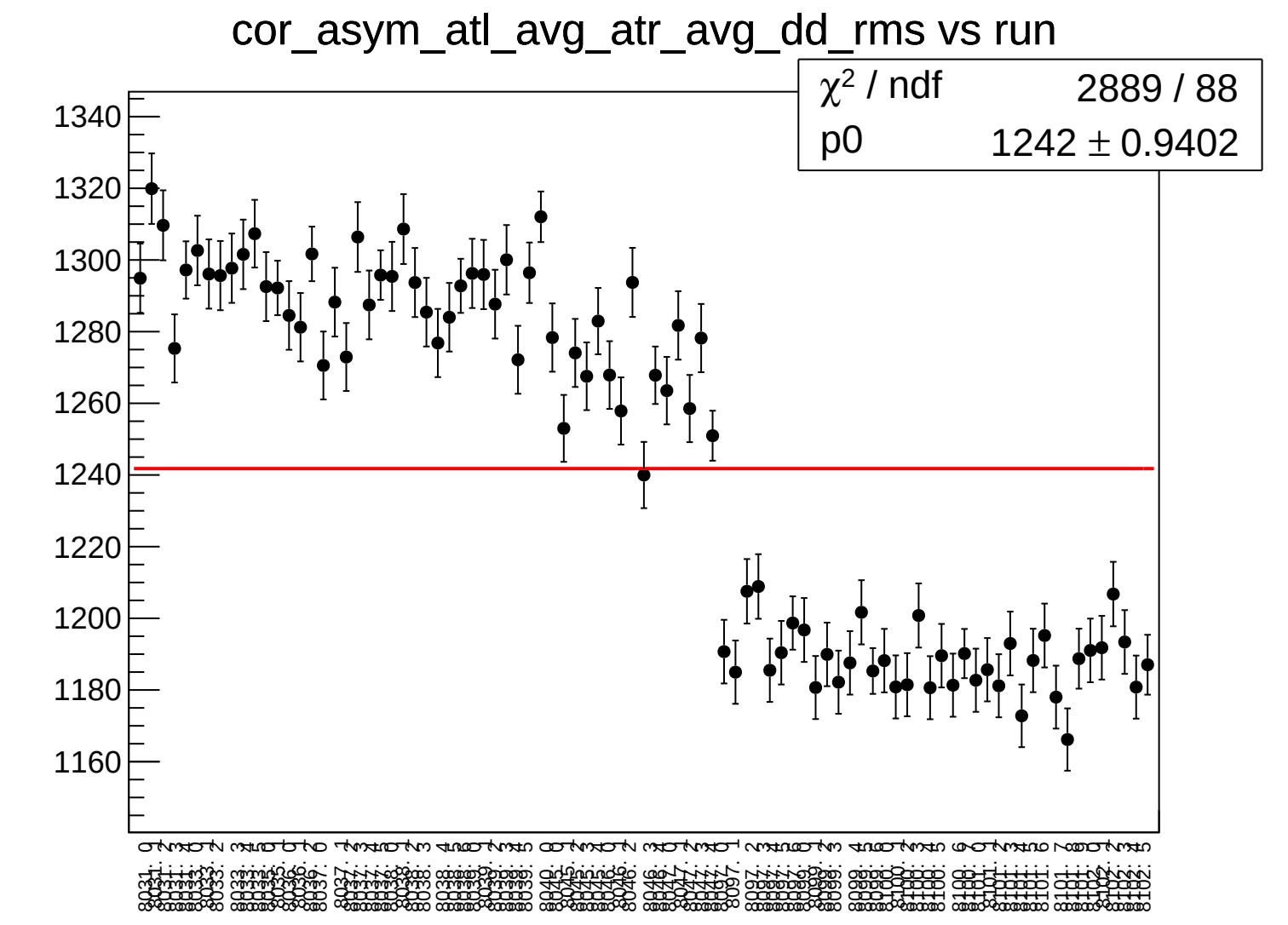

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 2889 / 88
p0 1242 ± 0.9402
1340
1320
1300
1280
1260
1240
1220
1200
1180
1160

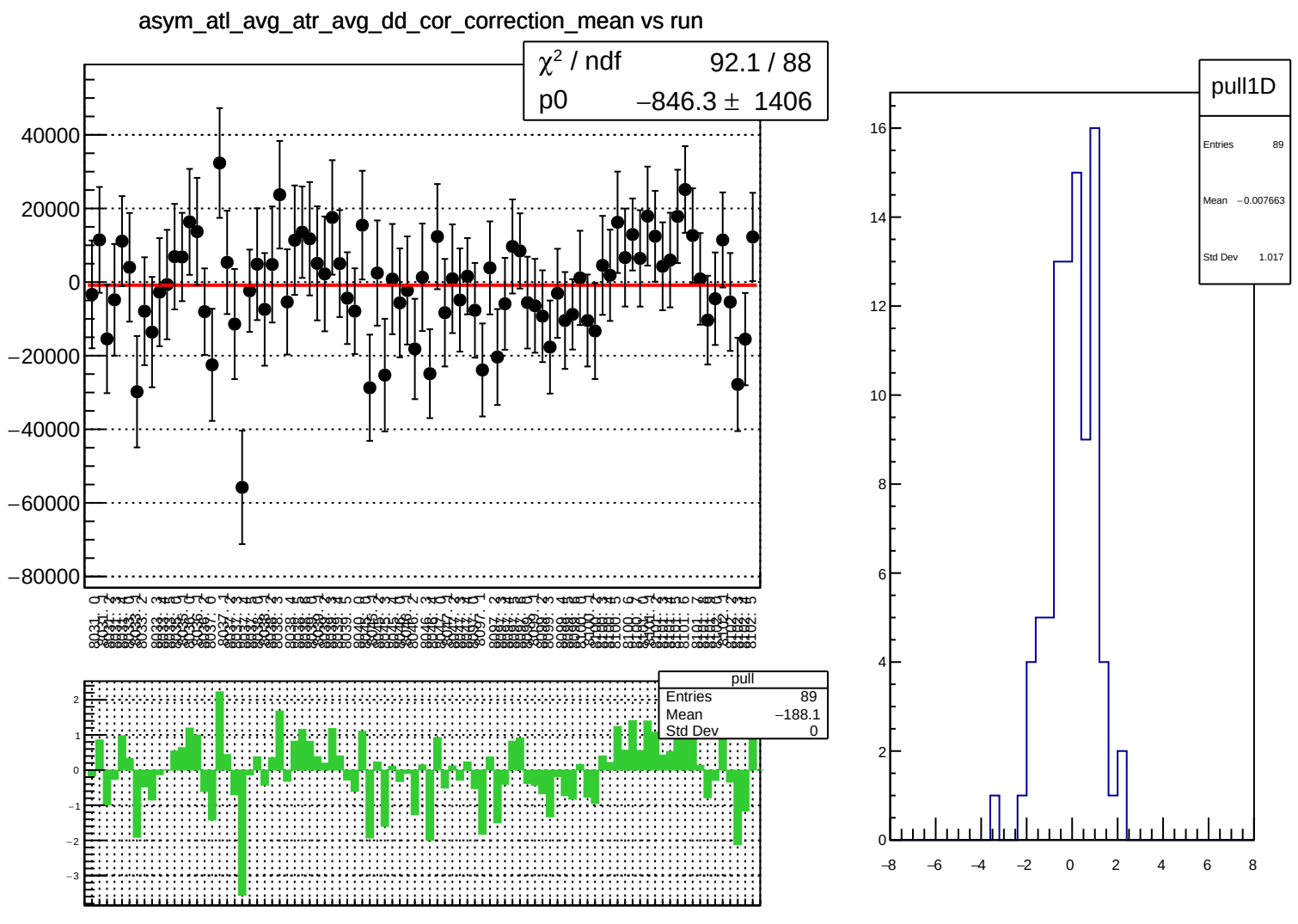

asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 92.11 / 88
p0 −846.3 ± 1406
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −187.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.007663
Std Dev 1.017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

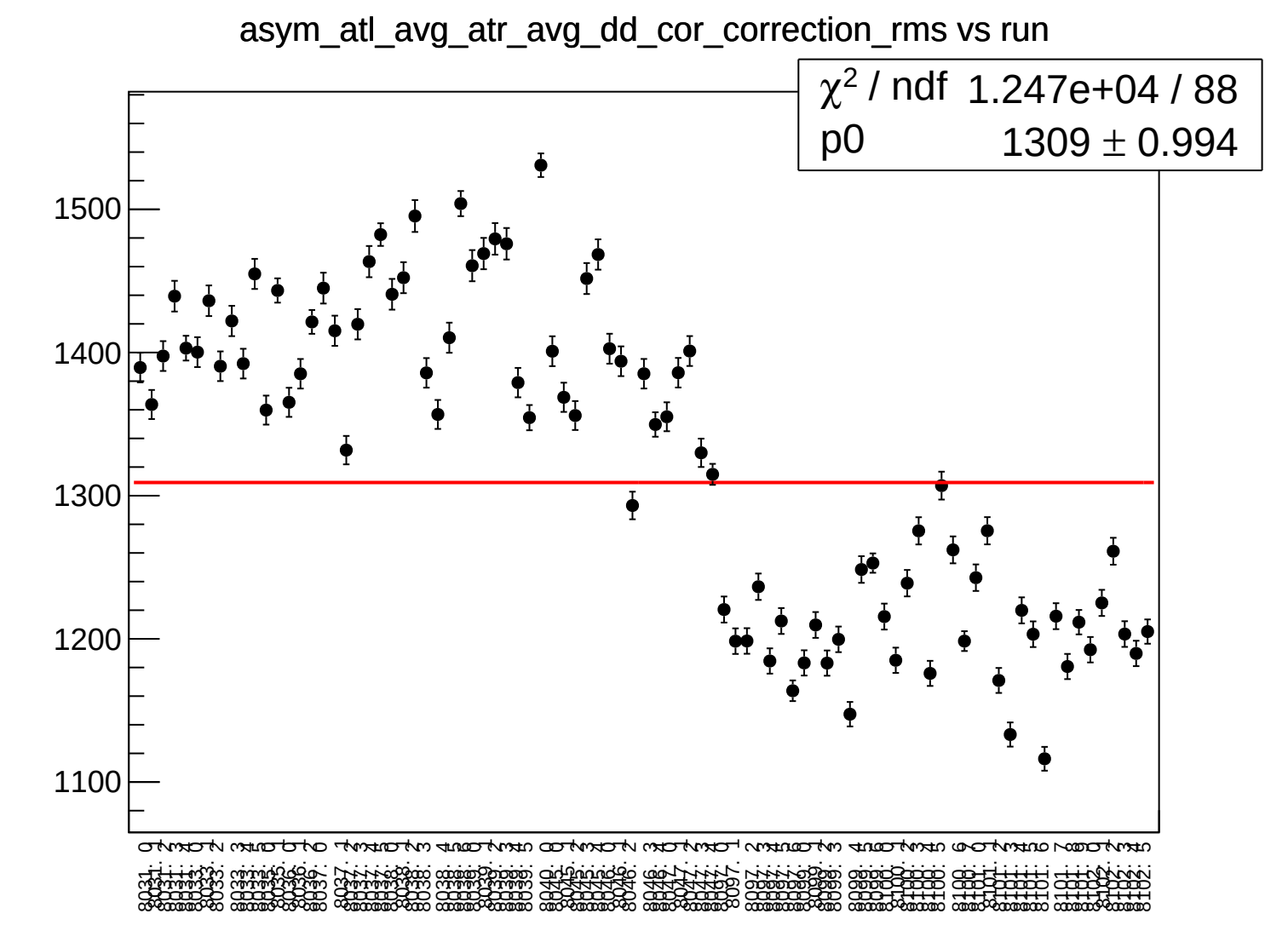

asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.247e+04 / 88
p0 1309 ± 0.994
1500
1400
1300
1200
1100

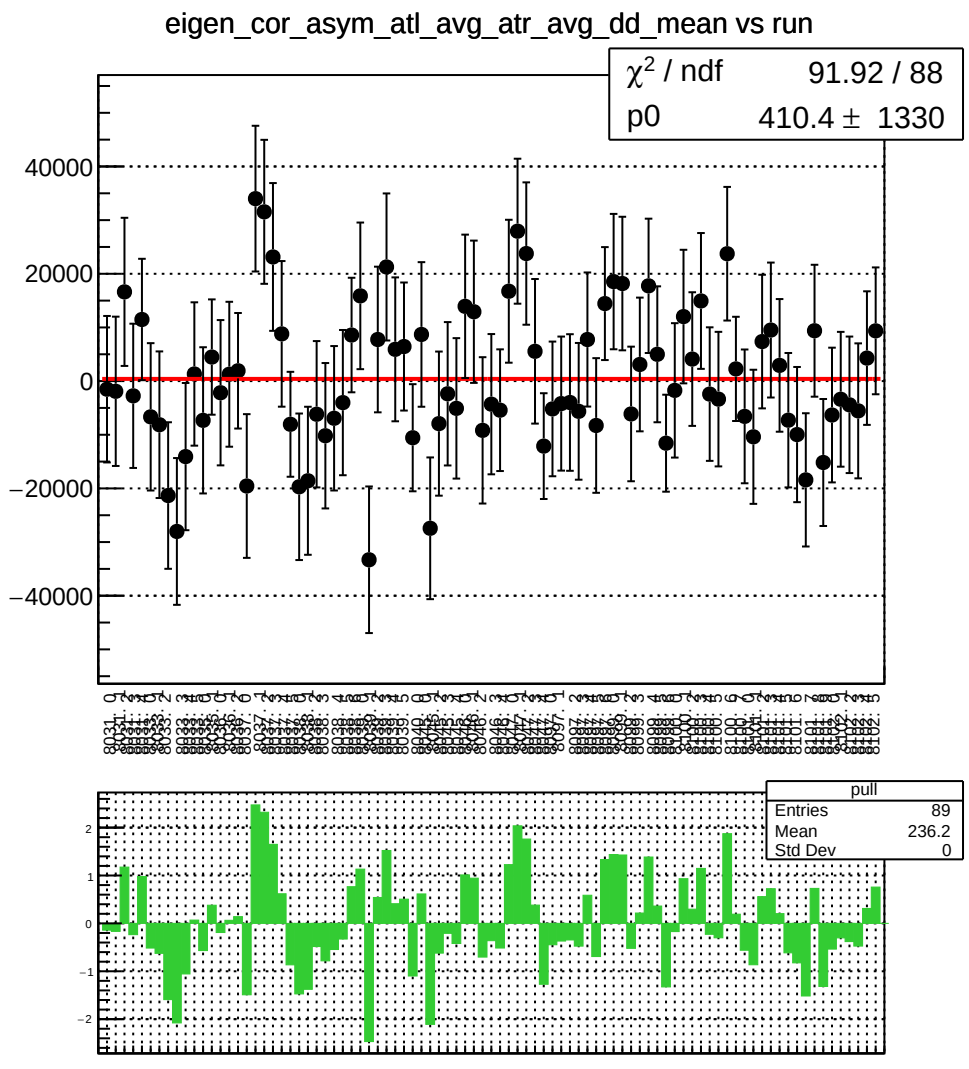

cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 91.92 / 88
p0 410.4 ± 1330
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 236.2
Std Dev 0
2
1
0
−1
−2

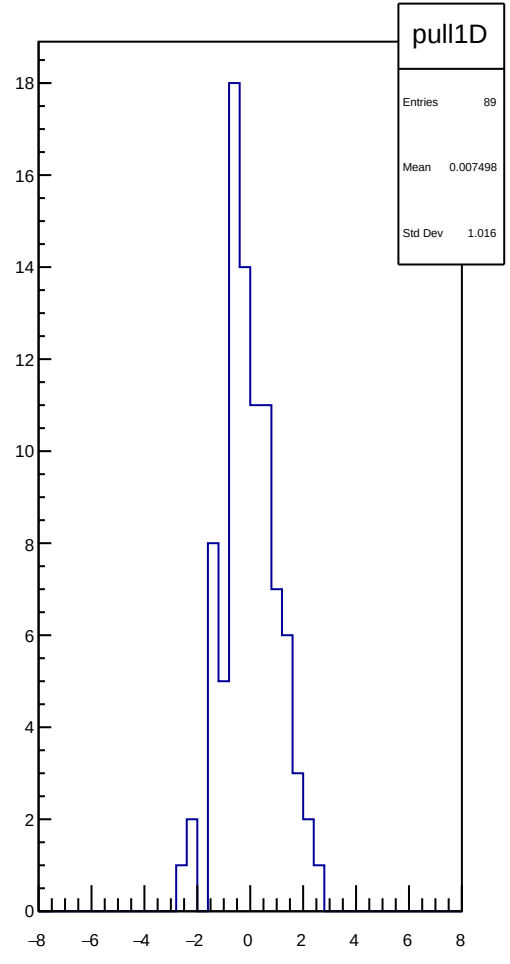

pull1D
Entries 89
Mean 0.007498
Std Dev 1.016
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

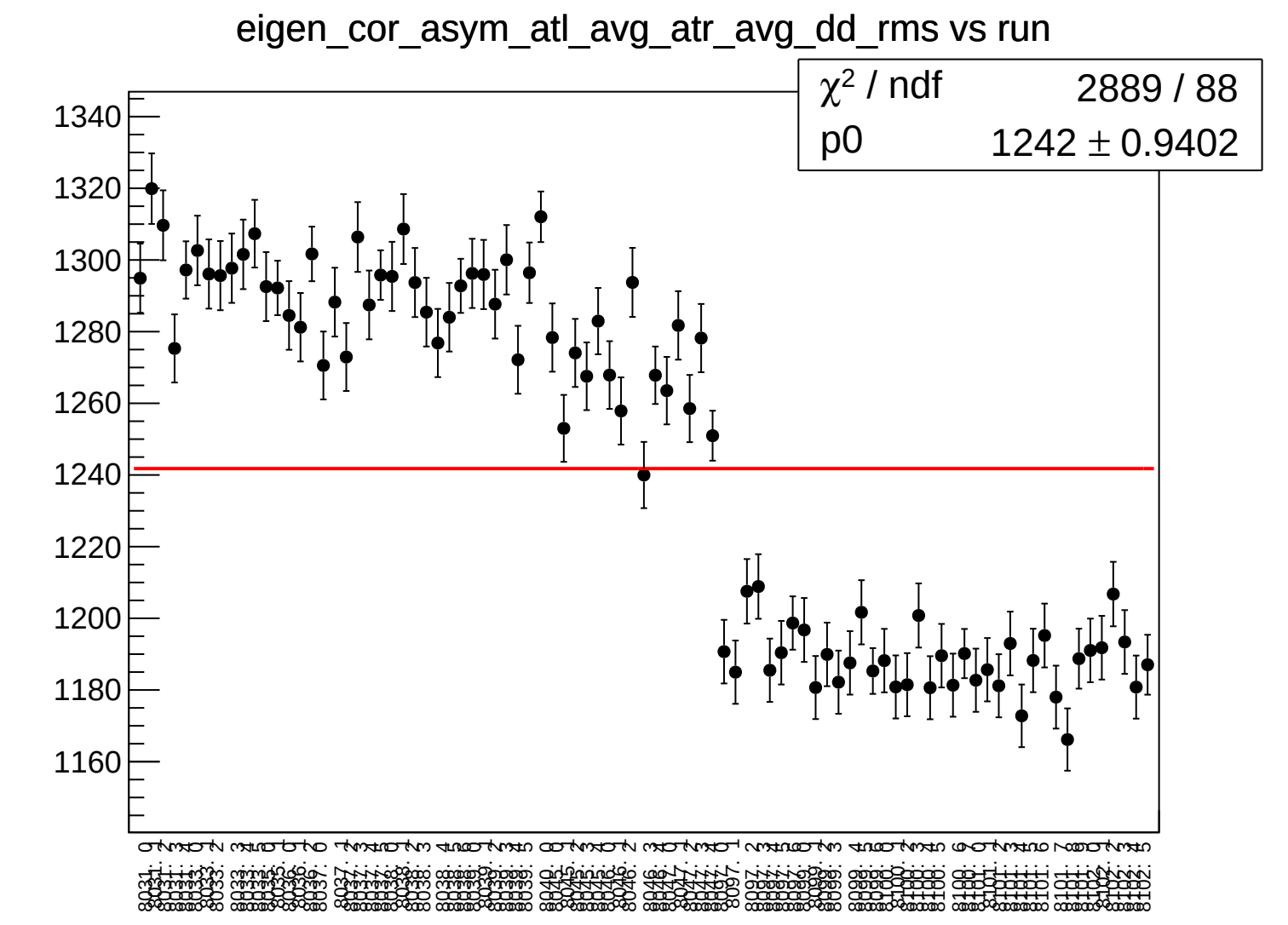

cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 2889 / 88
p0 1242 ± 0.9402
1340
1320
1300
1280
1260
1240
1220
1200
1180
1160

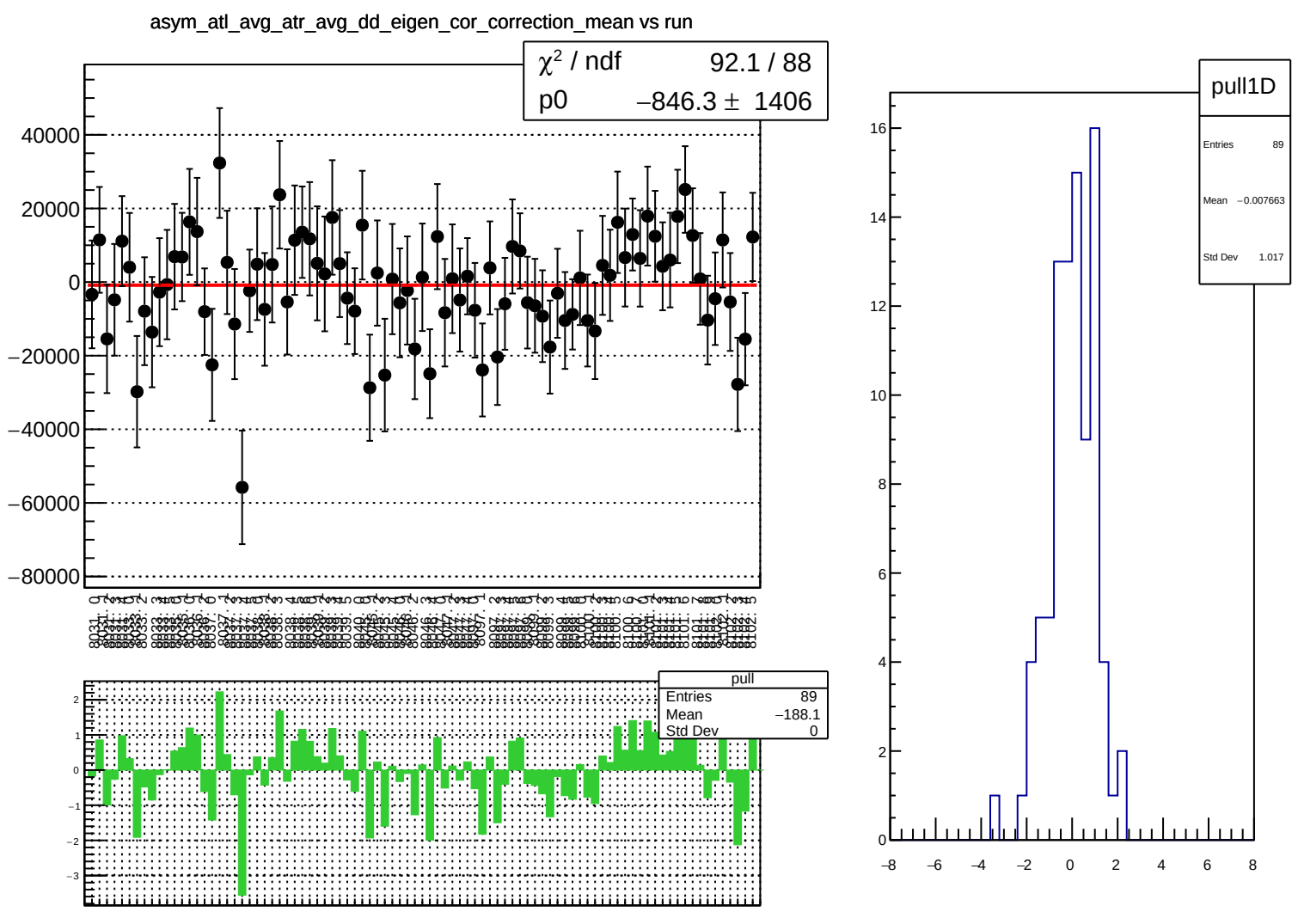

asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 92.1 / 88
p0 −846.3 ± 1406
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −188.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.007663
Std Dev 1.017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

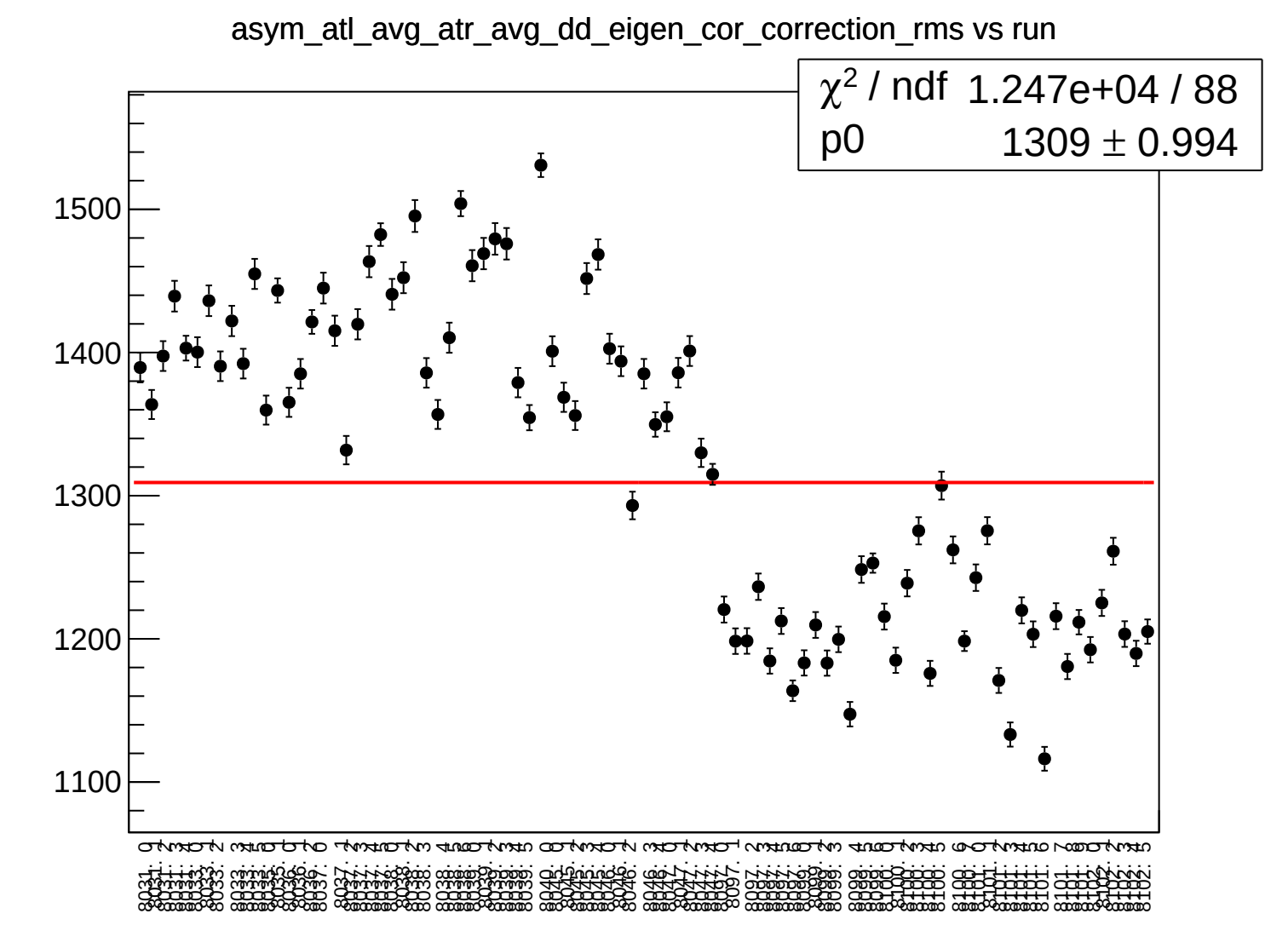

asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.247e+04 / 88
p0 1309 ± 0.994
1500
1400
1300
1200
1100

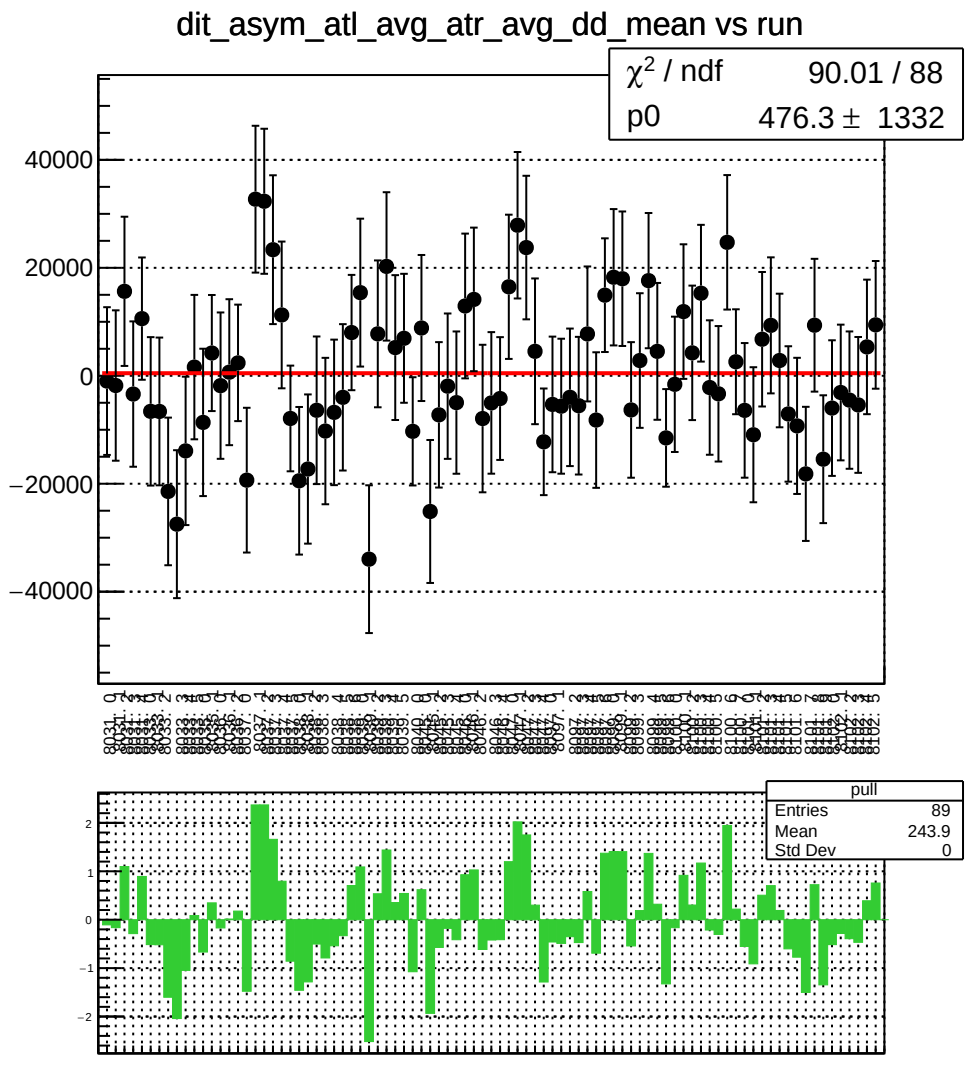

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 91.92 / 88
p0 410.4 ± 1330
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 236.2
Std Dev 0
2
1
0
−1
−2

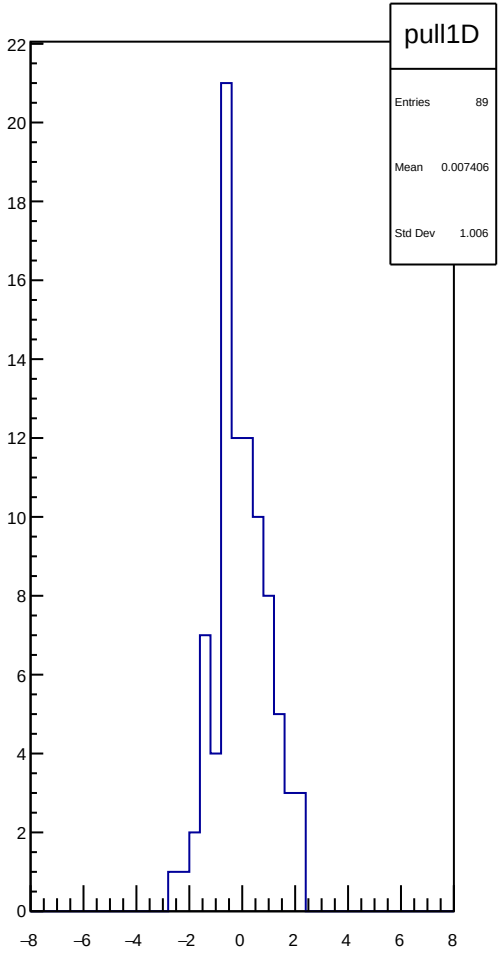

pull1D
Entries 89
Mean 0.007498
Std Dev 1.016
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

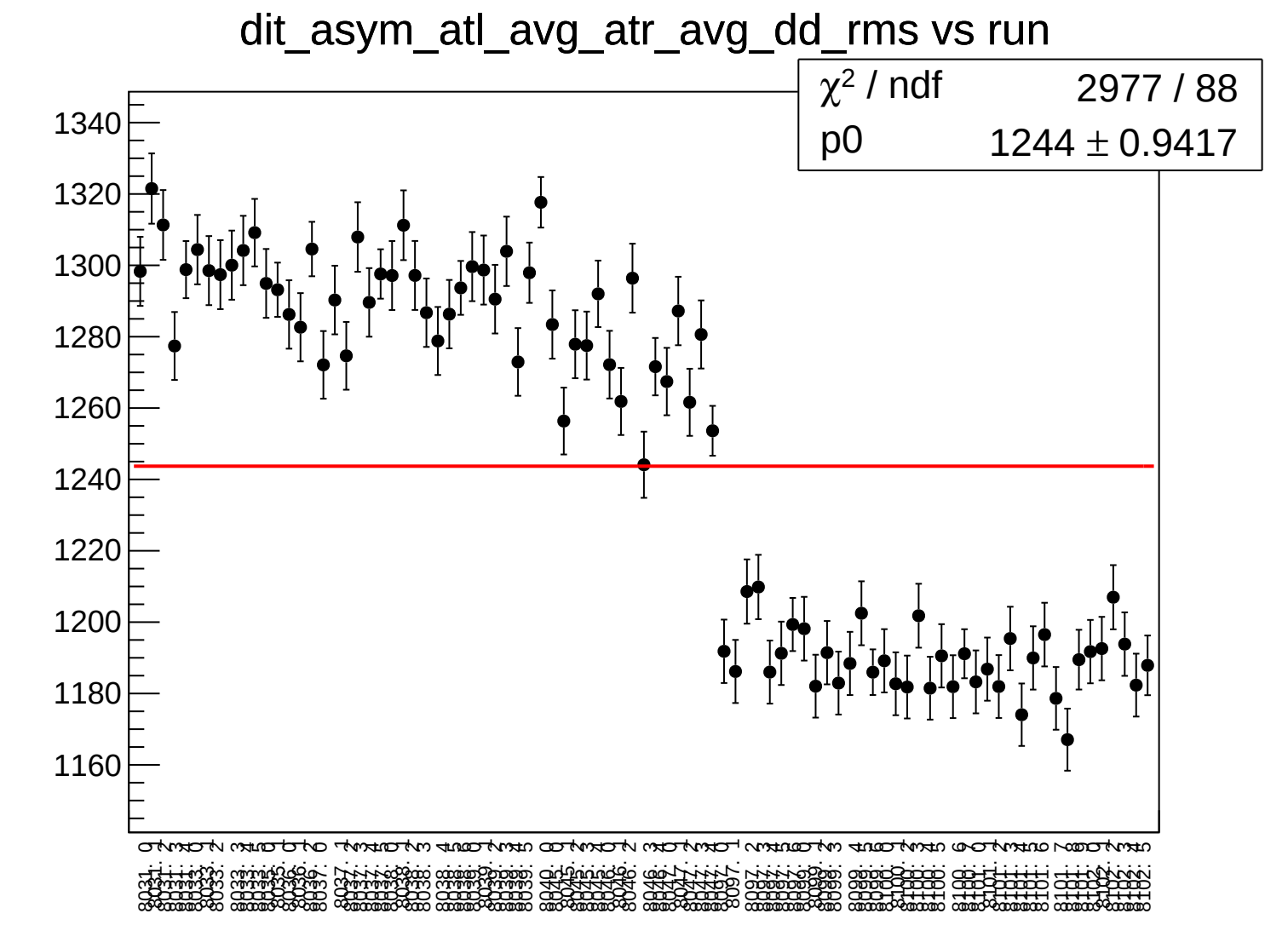

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 2889 / 88
p0 1242 ± 0.9402
1340
1320
1300
1280
1260
1240
1220
1200
1180
1160

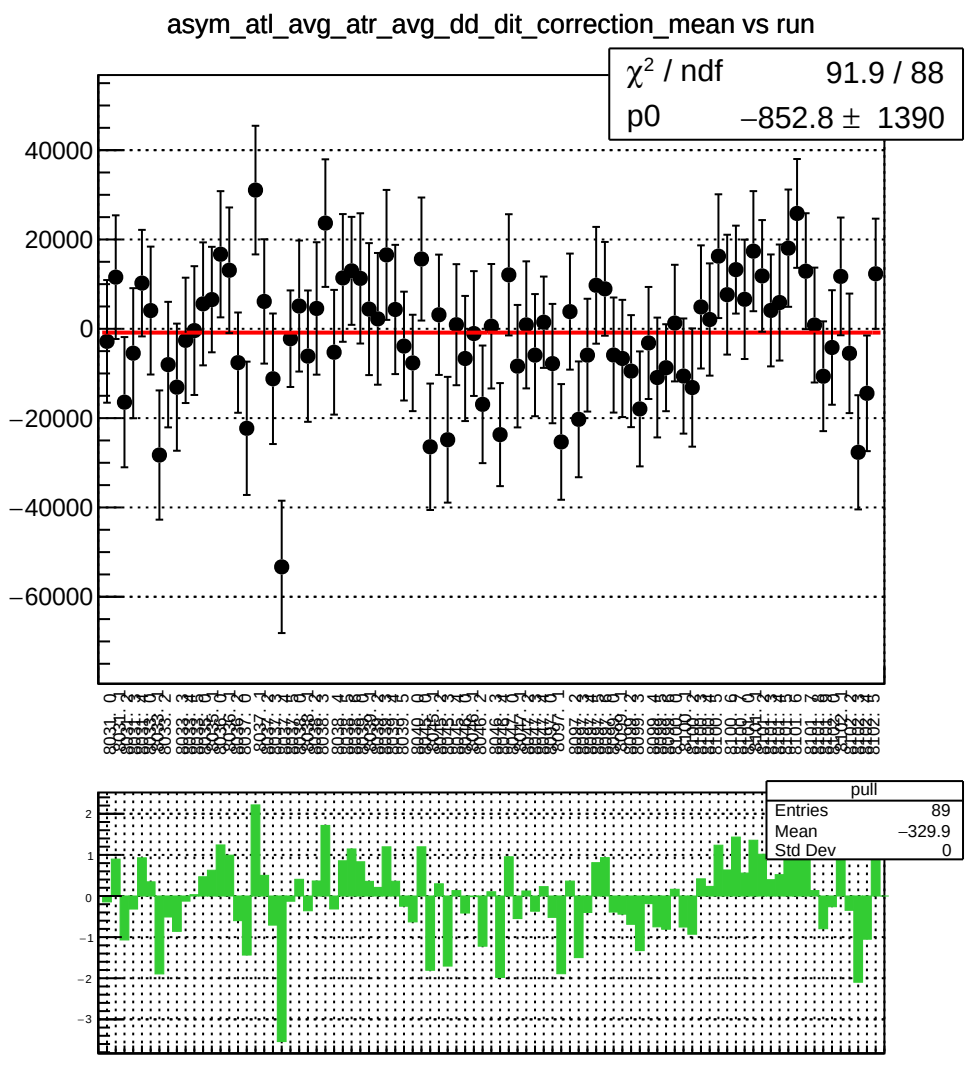

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 92.1 / 88
p0 −846.3 ± 1406
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −188.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.007663
Std Dev 1.017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

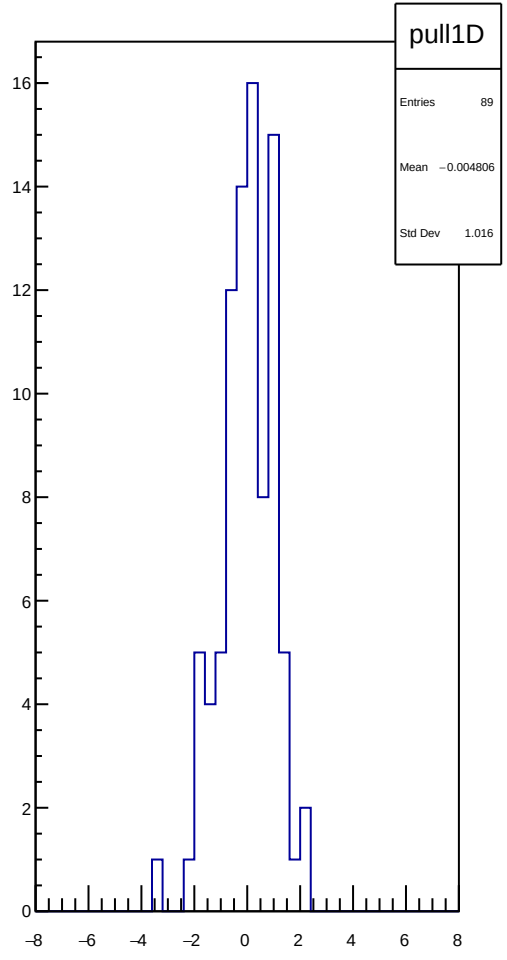

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.247e+04 / 88
p0 1309 ± 0.994
1500
1400
1300
1200
1100

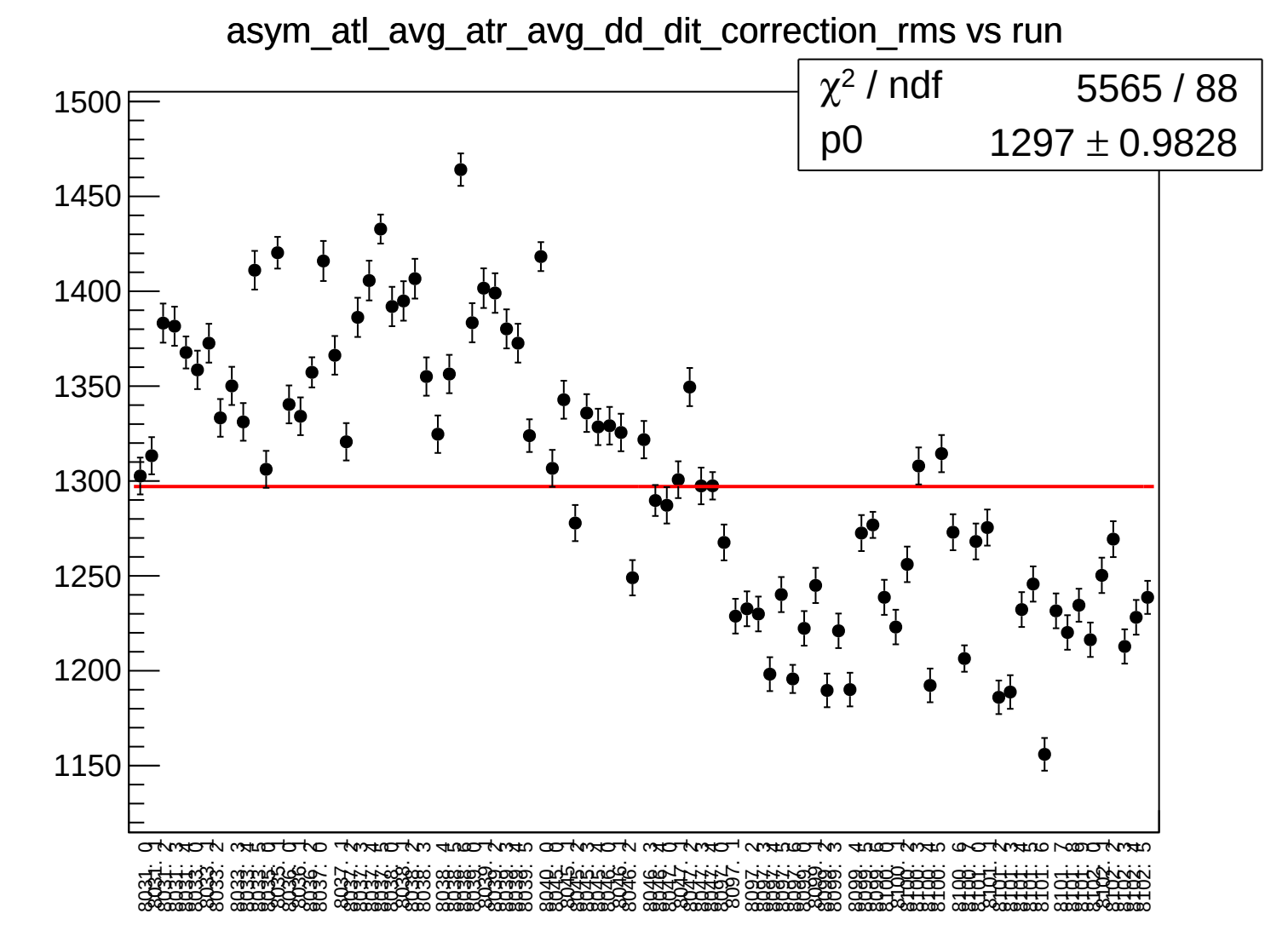

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 90.01 / 88
p0 476.3 ± 1332
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 243.9
Std Dev 0
2
1
0
−1
−2

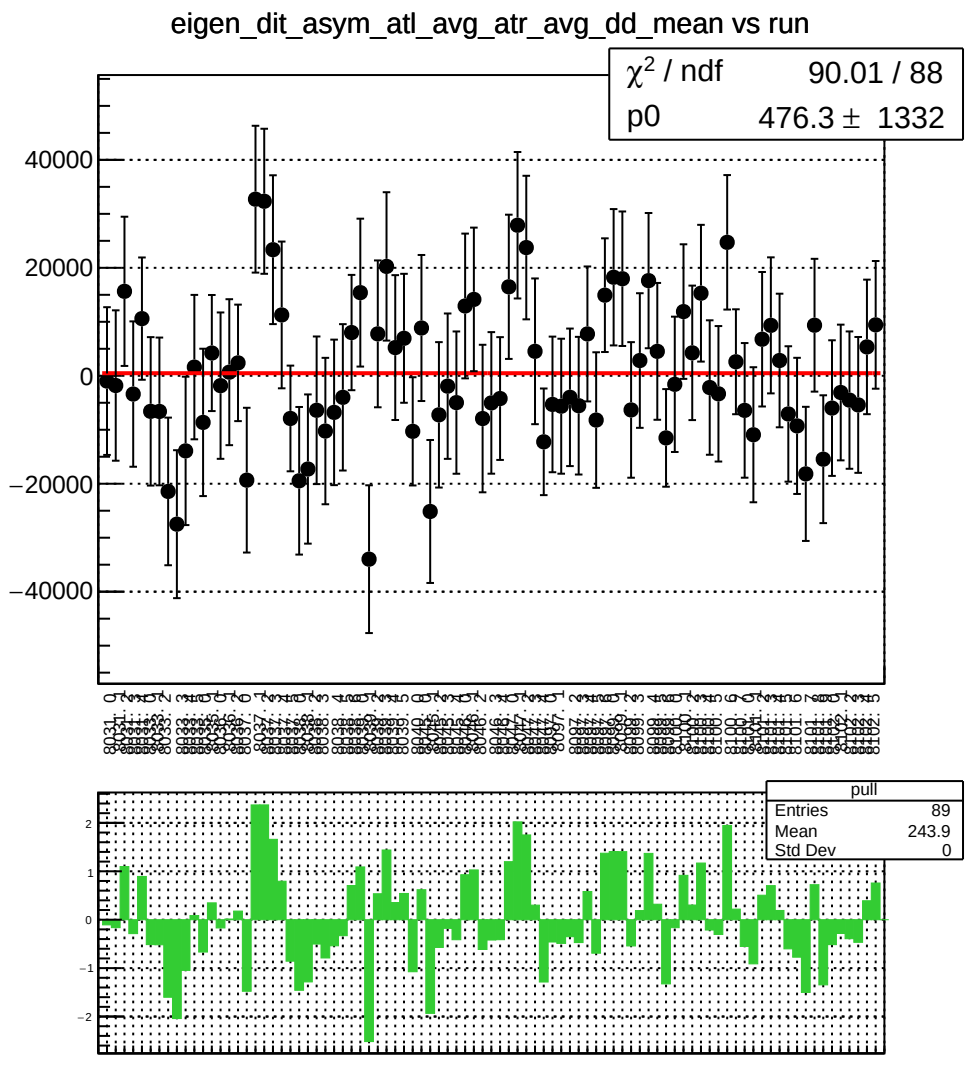

pull1D
Entries 89
Mean 0.007406
Std Dev 1.006
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

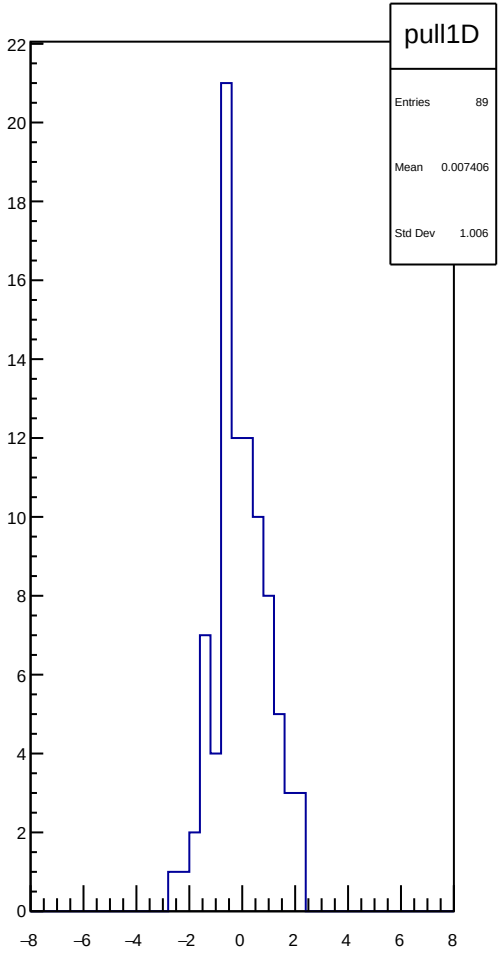

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 2977 / 88
p0 1244 ± 0.9417
1340
1320
1300
1280
1260
1240
1220
1200
1180
1160

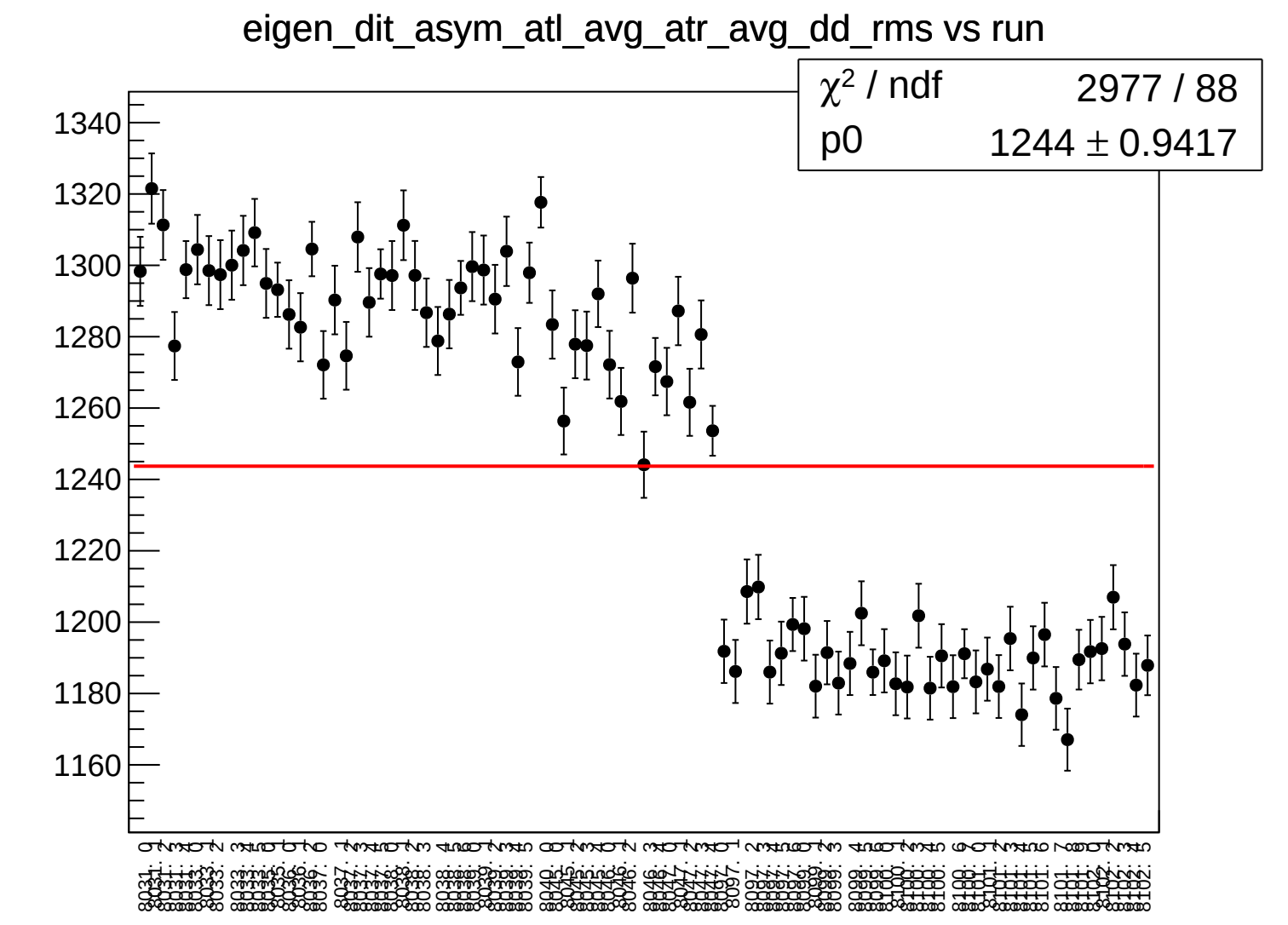

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 91.9 / 88
p0 −852.8 ± 1390
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −329.9
Std Dev 0
2
1
0
−1
−2
−3

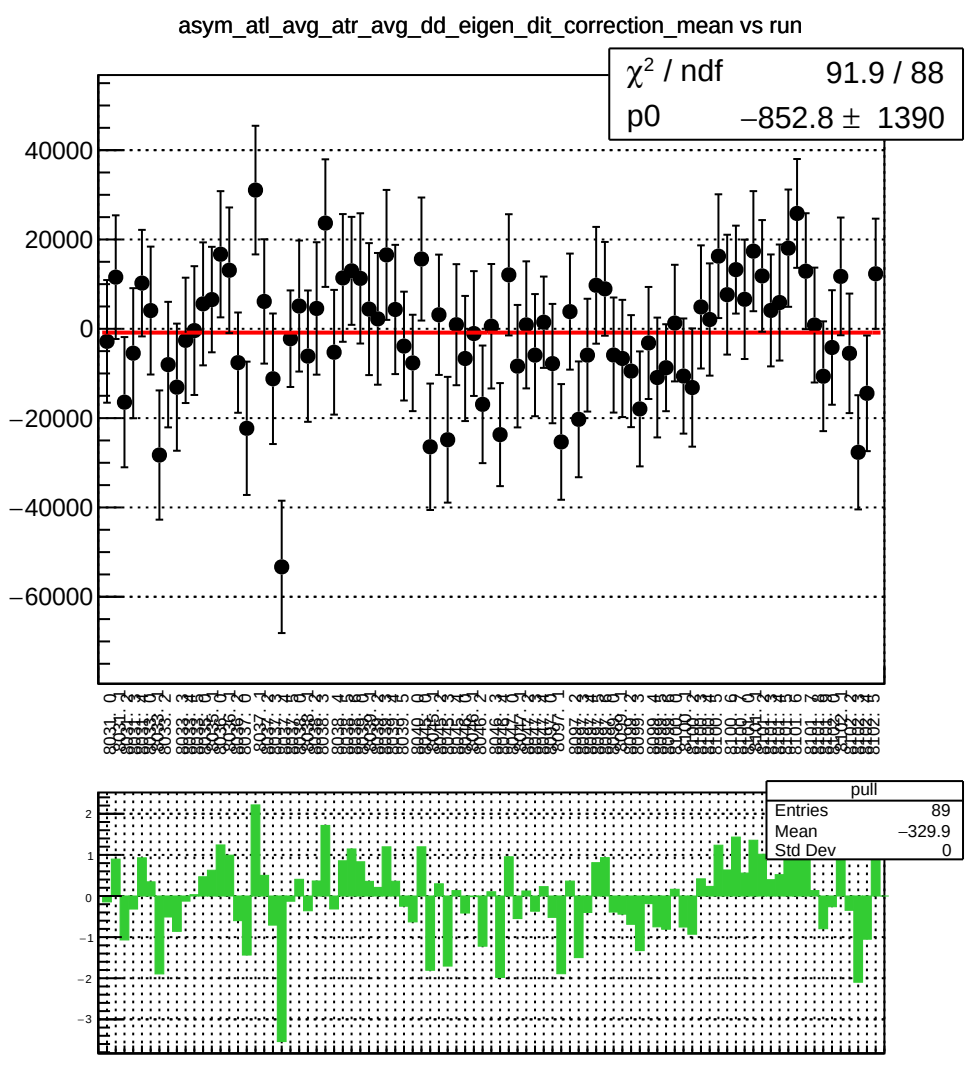

pull1D
Entries 89
Mean −0.004806
Std Dev 1.016
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

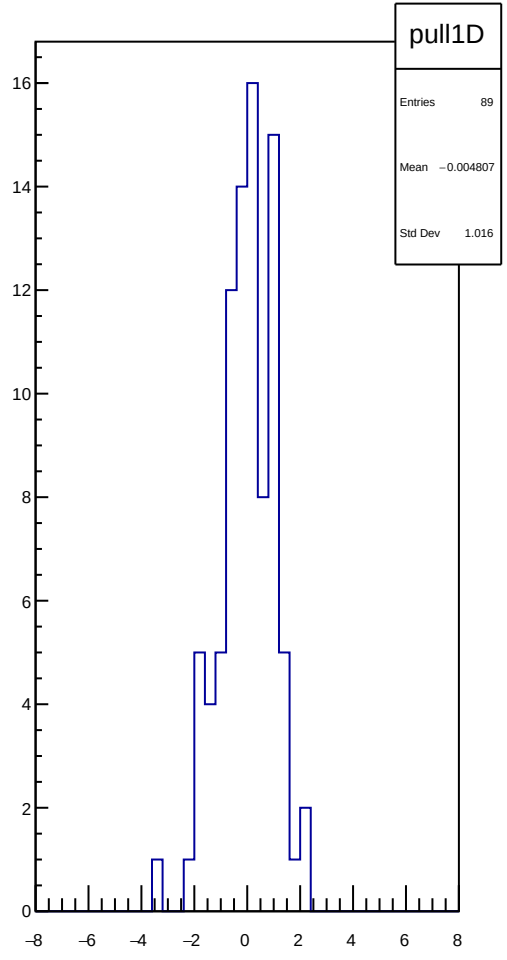

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 5565 / 88
p0 1297 ± 0.9828
1500
1450
1400
1350
1300
1250
1200
1150

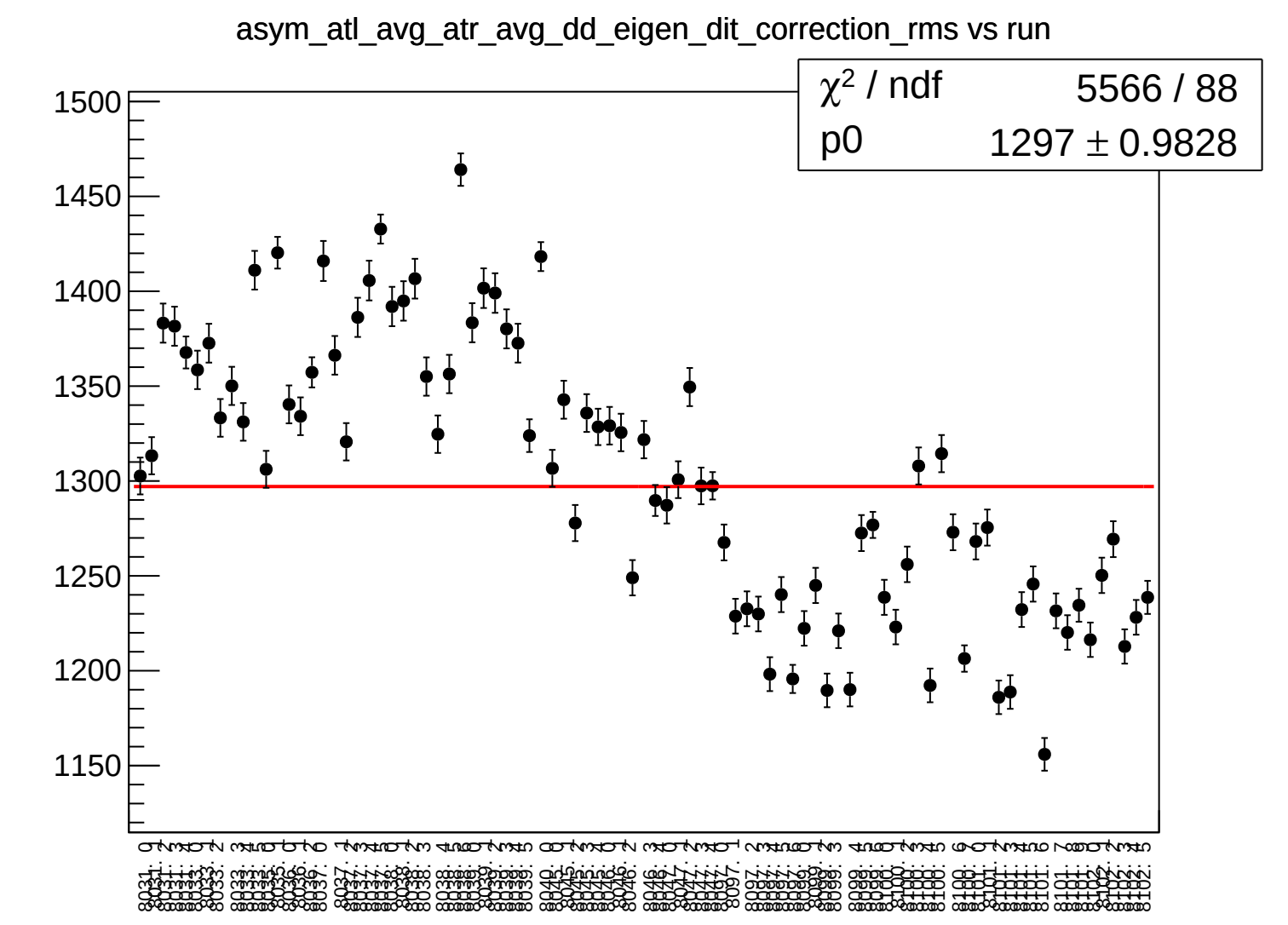

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 90.01 / 88
p0 476.3 ± 1332
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 243.9
Std Dev 0
2
1
0
−1
−2

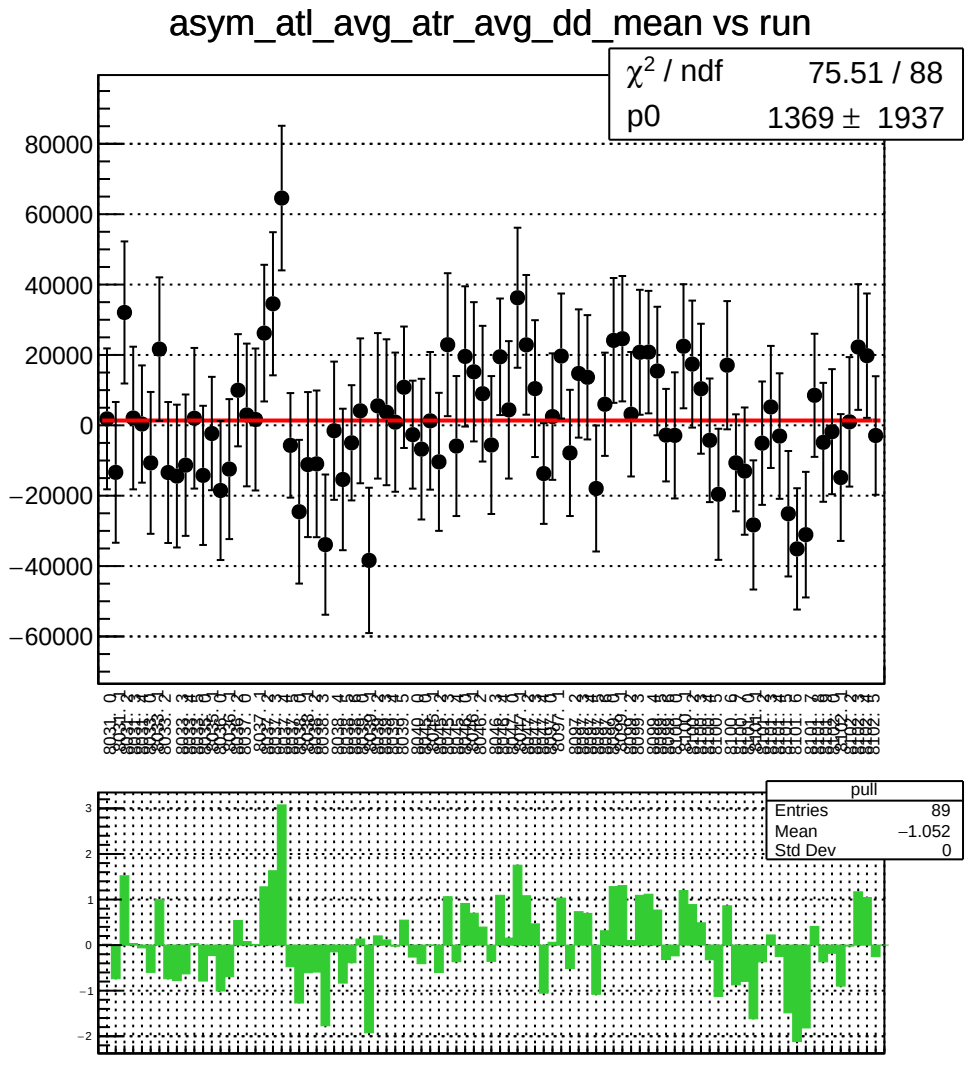

pull1D
Entries 89
Mean 0.007406
Std Dev 1.006
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

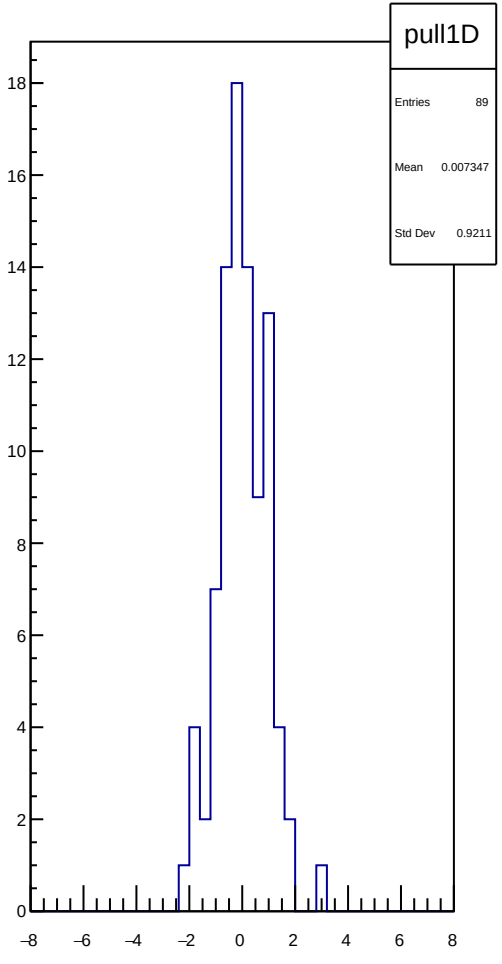

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 2977 / 88
p0 1244 ± 0.9417
1340
1320
1300
1280
1260
1240
1220
1200
1180
1160

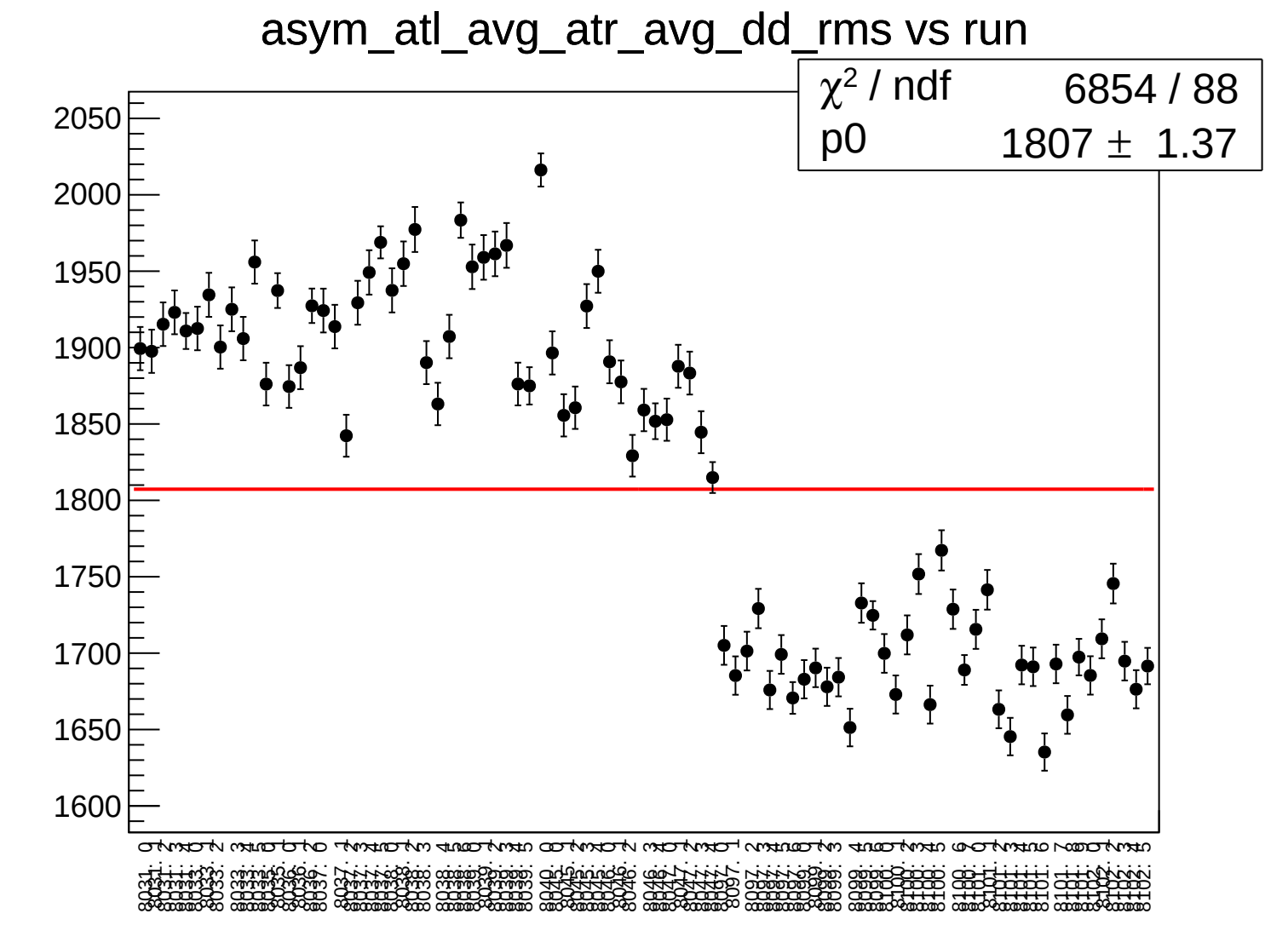

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 91.9 / 88
p0 −852.8 ± 1390
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −329.9
Std Dev 0
2
1
0
−1
−2
−3

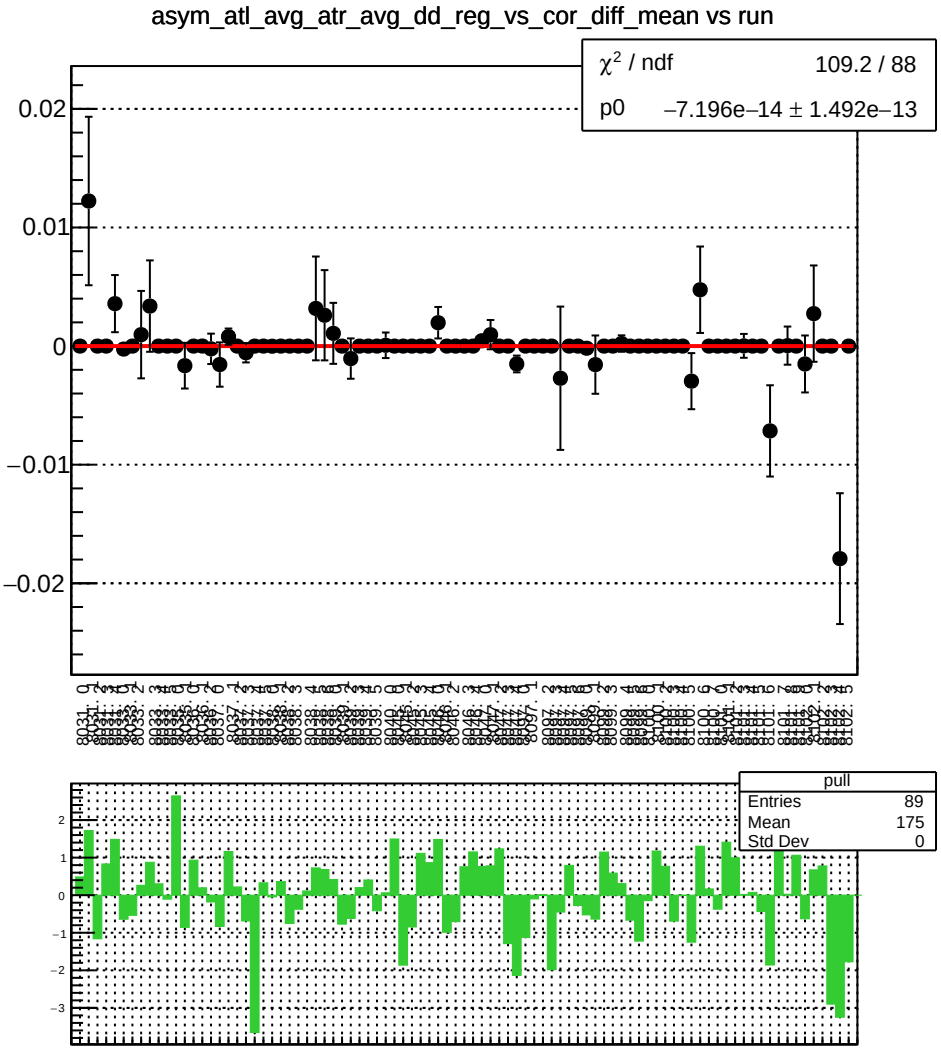

pull1D
Entries 89
Mean −0.004807
Std Dev 1.016
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

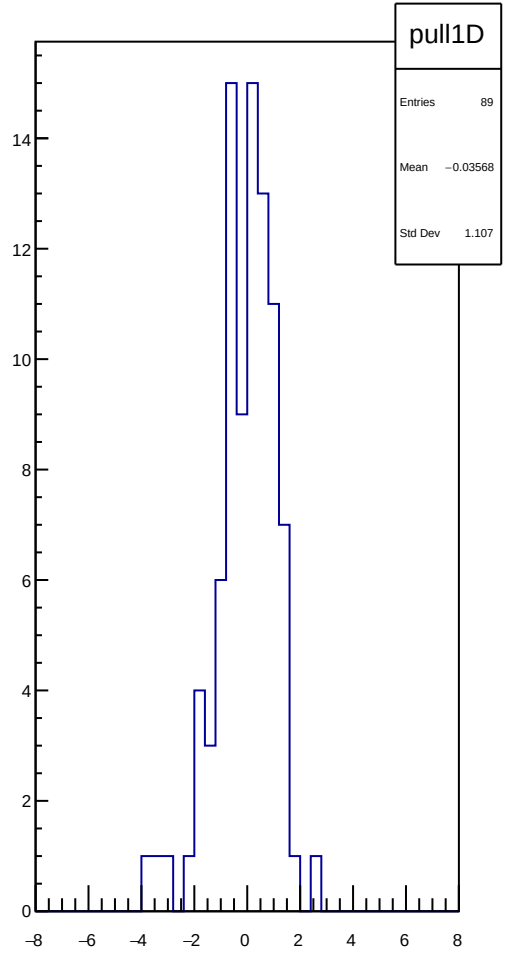

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 5566 / 88
p0 1297 ± 0.9828
1500
1450
1400
1350
1300
1250
1200
1150

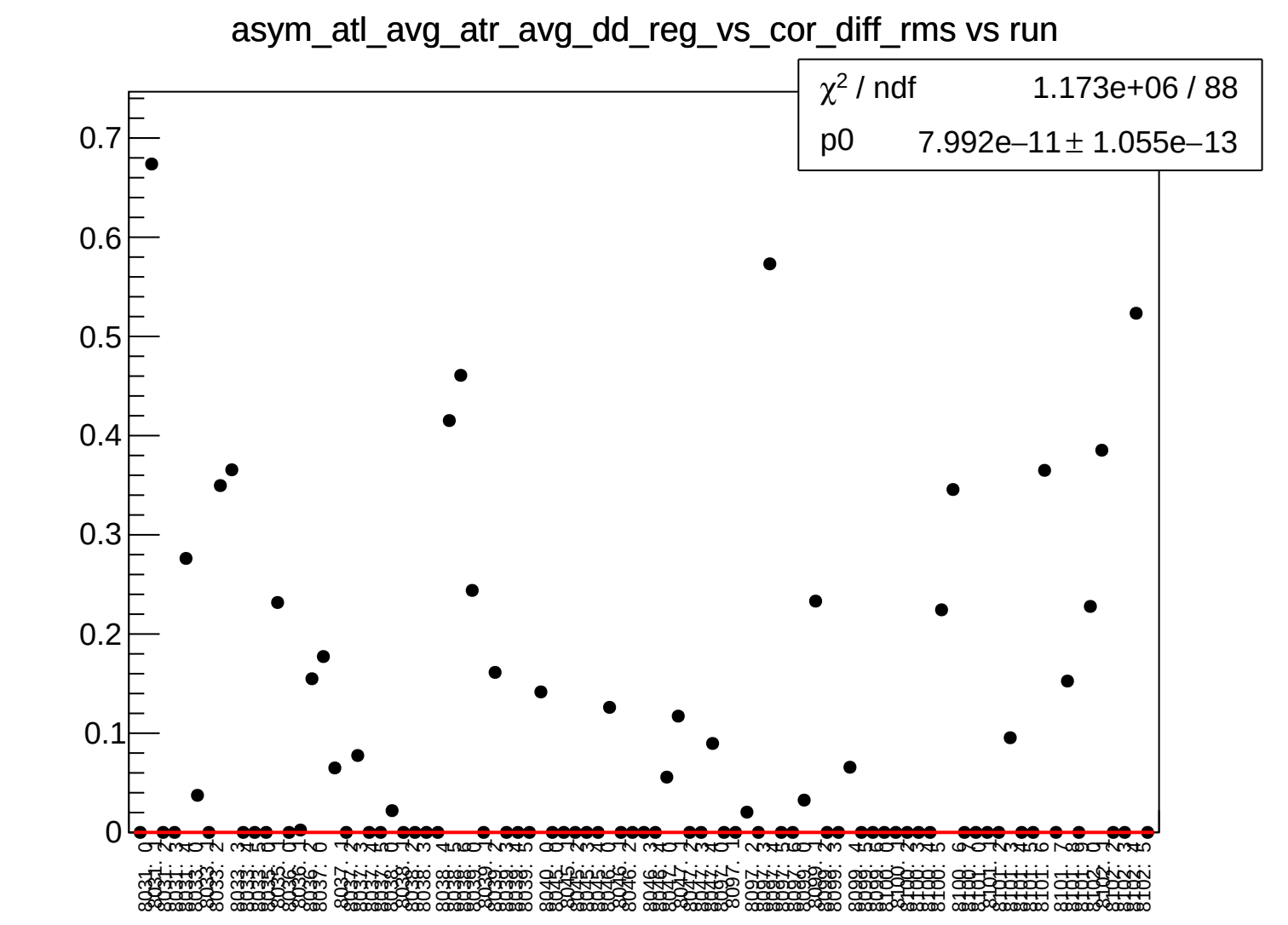

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 75.51 / 88
p0 1369 ± 1937
pull
Entries 89
Mean −1.052
Std Dev 0

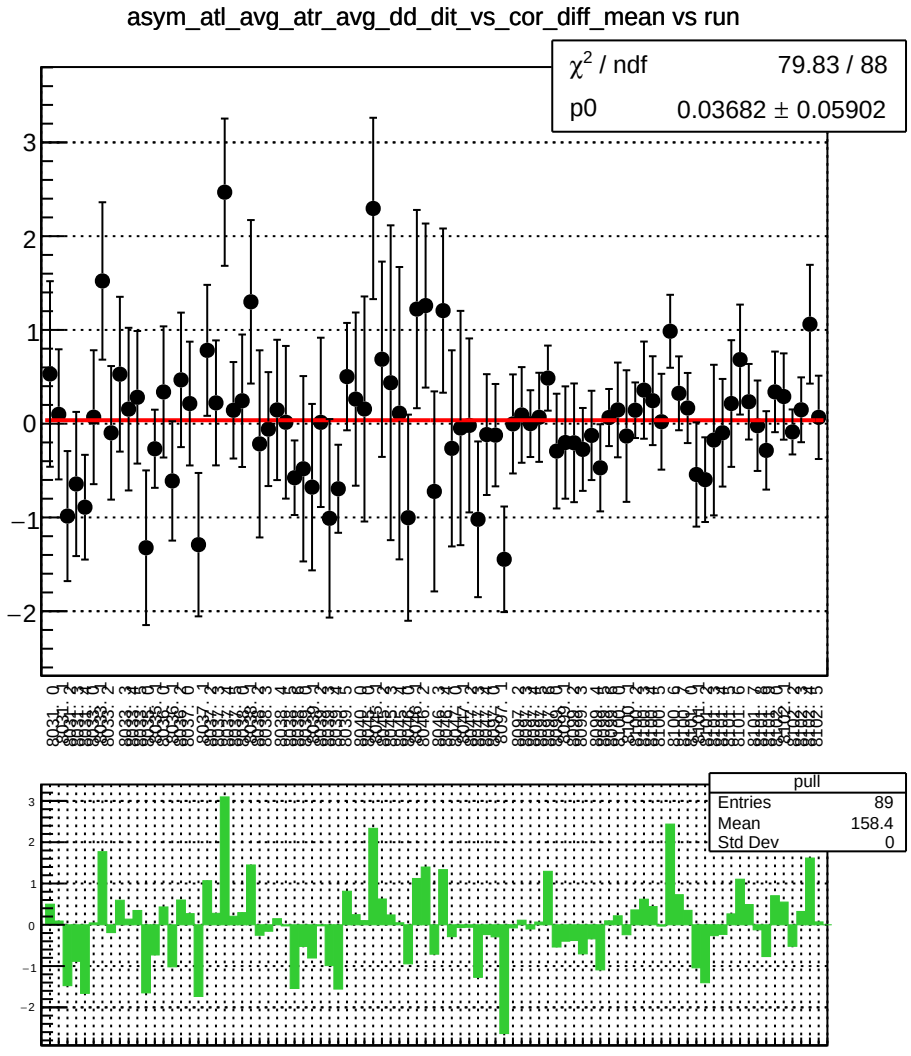

pull1D
Entries 89
Mean 0.007347
Std Dev 0.9211

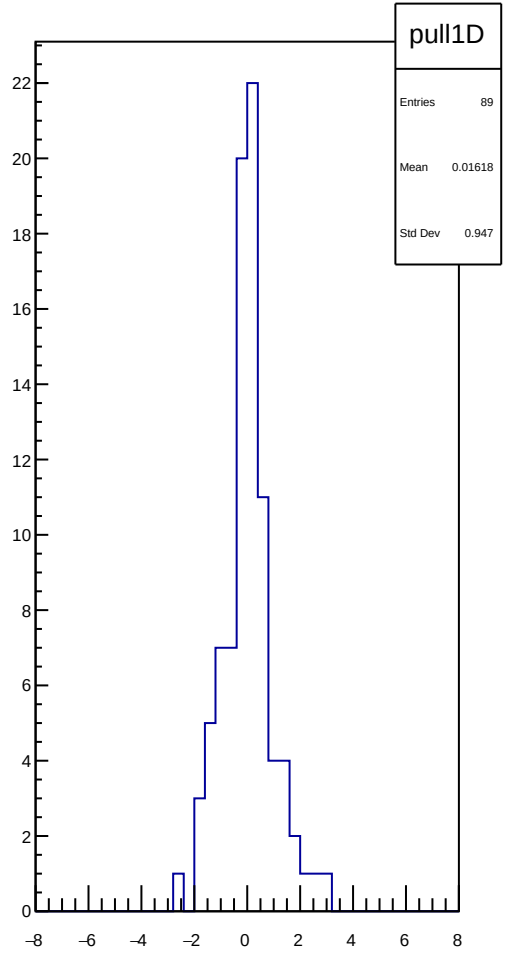

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 6854 / 88
p0 1807 ± 1.37
2050
2000
1950
1900
1850
1800
1750
1700
1650
1600

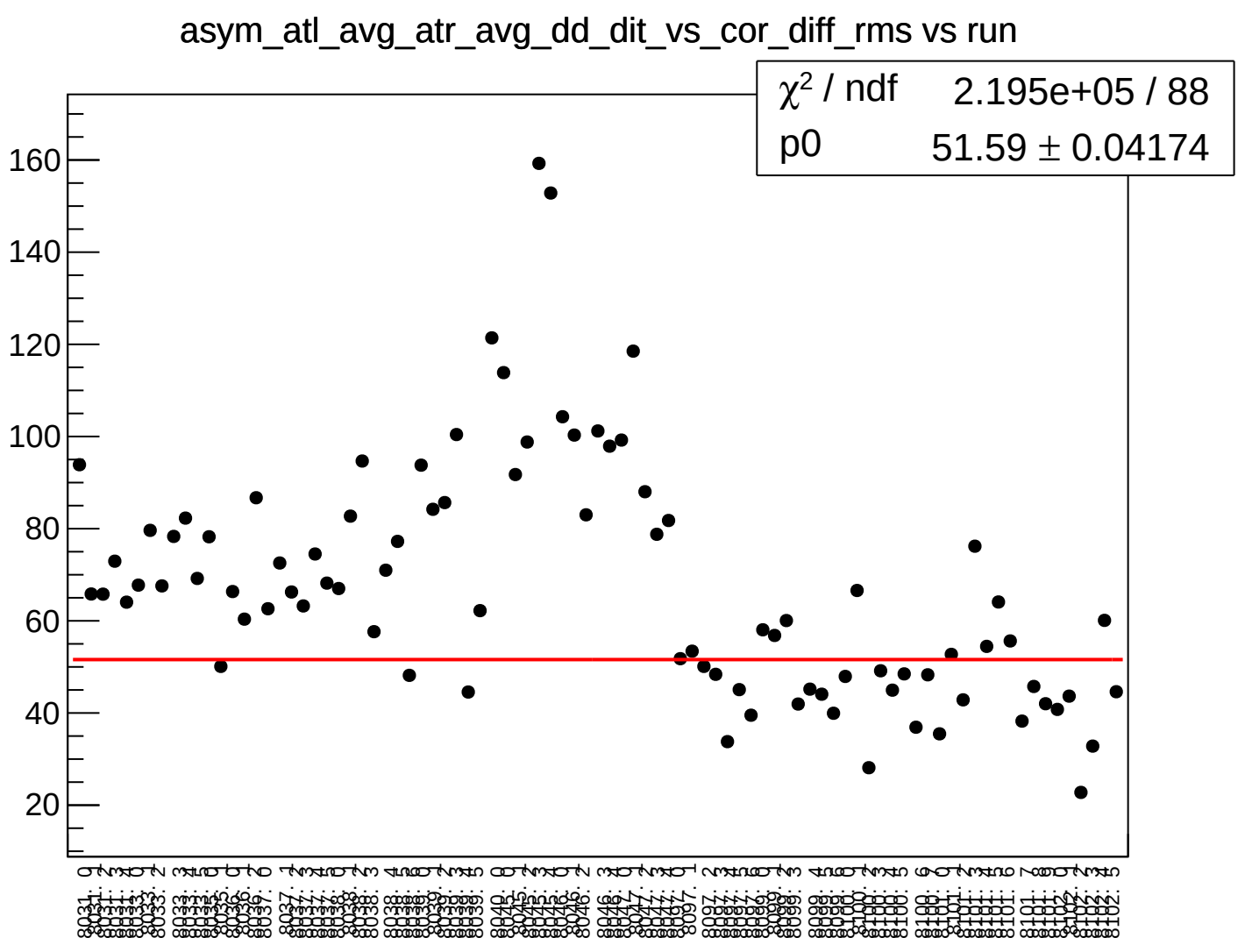

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 109.2 / 88
p0 −7.196e−14 ± 1.492e−13
0.02
0.01
0
−0.01
−0.02
pull
Entries 89
Mean 175
Std Dev 0
2
1
0
−1
−2
−3

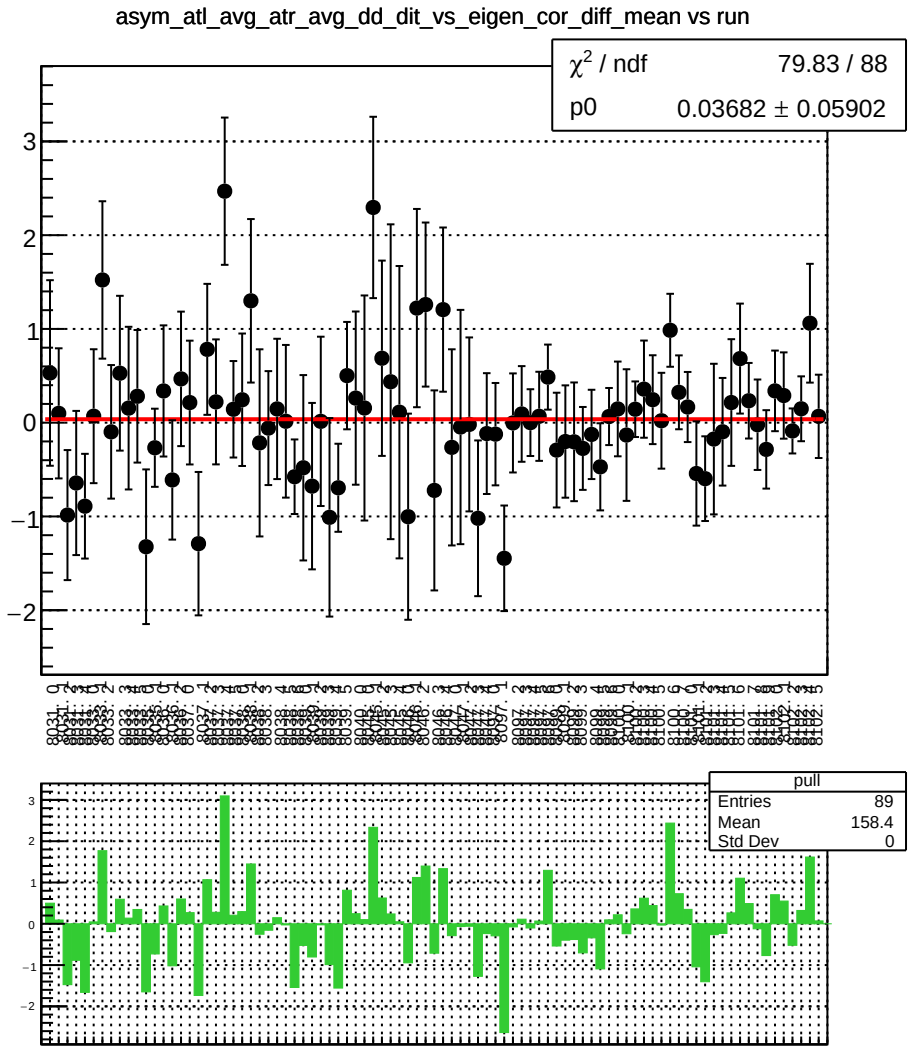

pull1D
Entries 89
Mean −0.03568
Std Dev 1.107
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

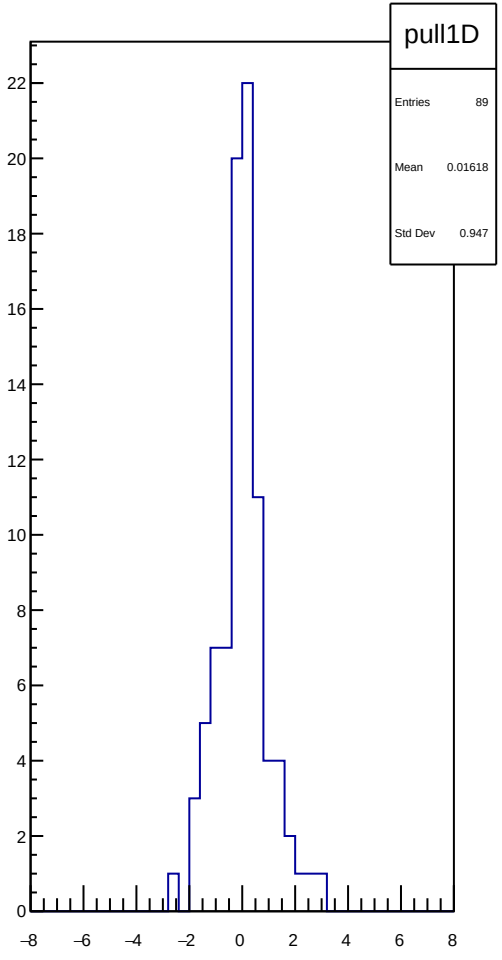

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.173e+06 / 88
p0 7.992e−11 ± 1.055e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

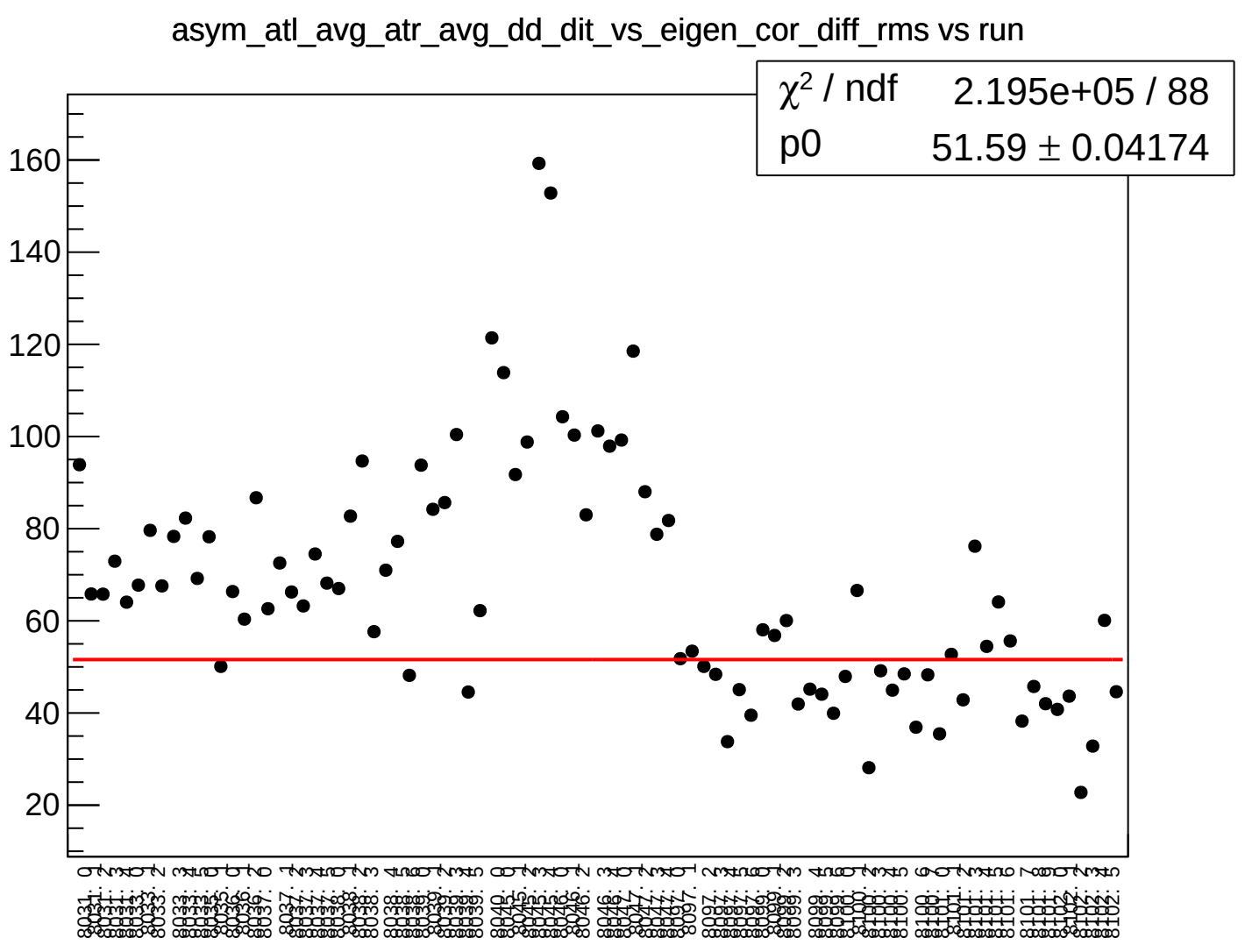

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 79.83 / 88
p0 0.03682 ± 0.05902
pull
Entries 89
Mean 158.4
Std Dev 0

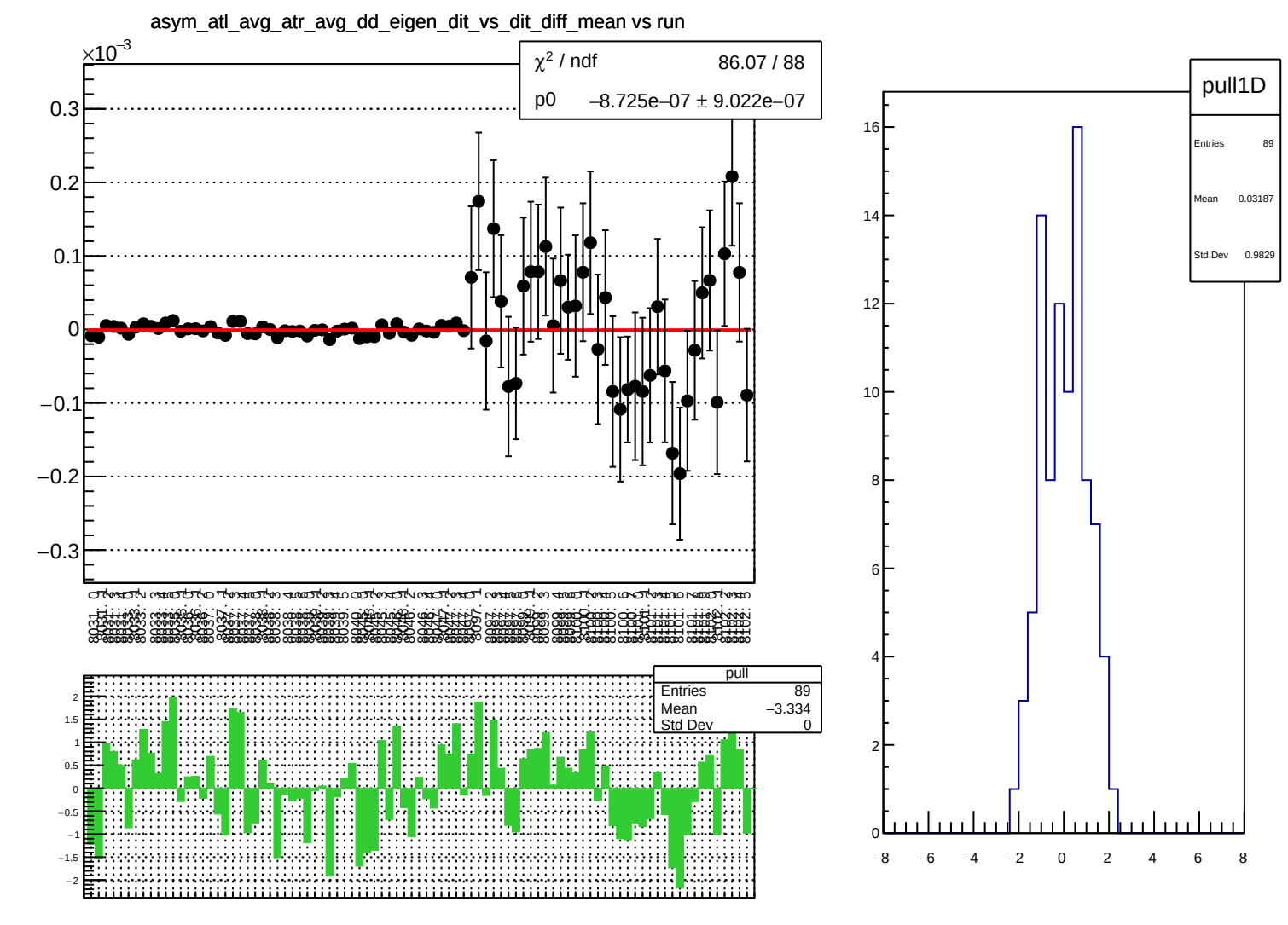

pull1D
Entries 89
Mean 0.01618
Std Dev 0.947

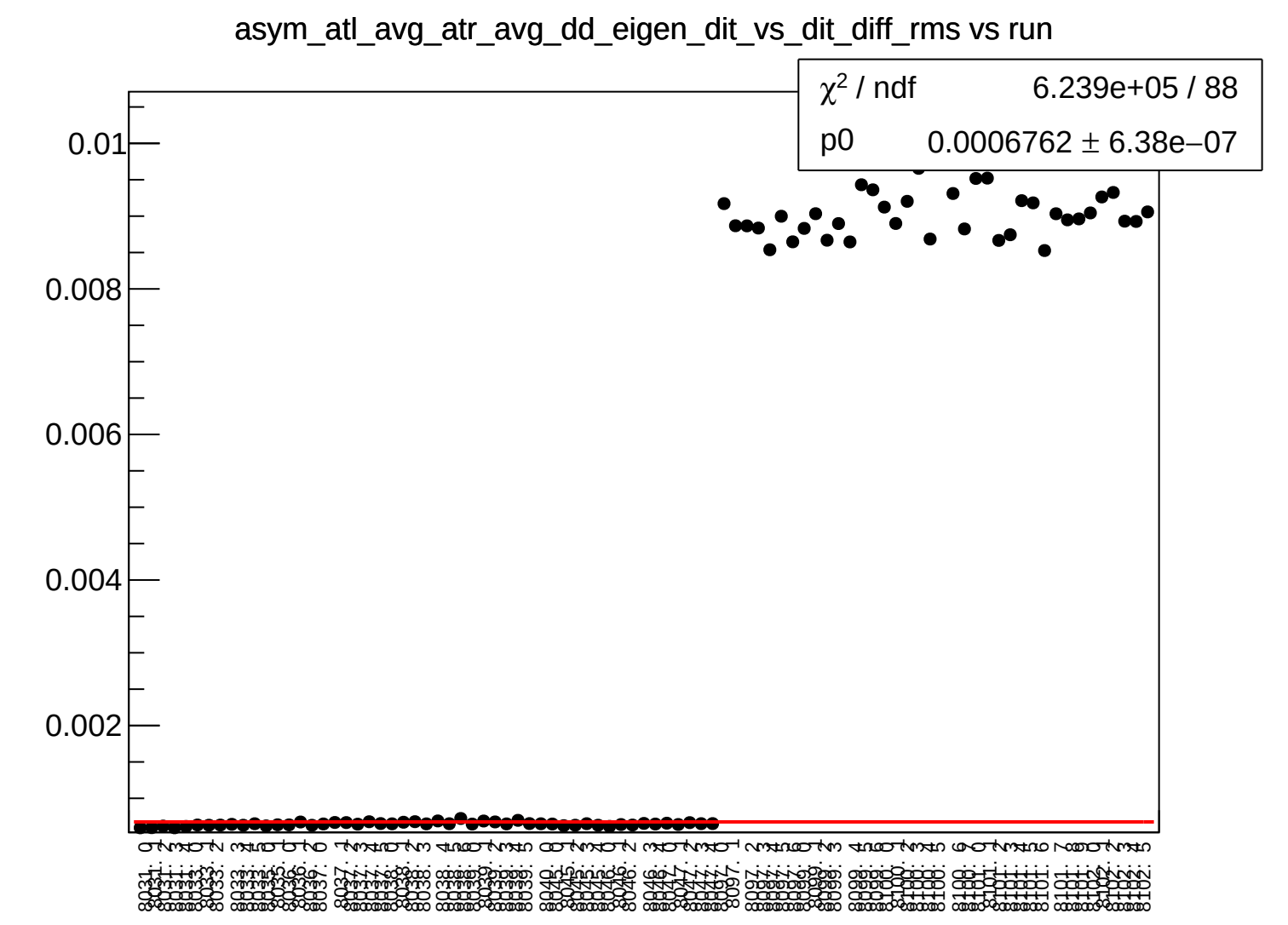

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.195e+05 / 88
p0 51.59 ± 0.04174
160
140
120
100
80
60
40
20

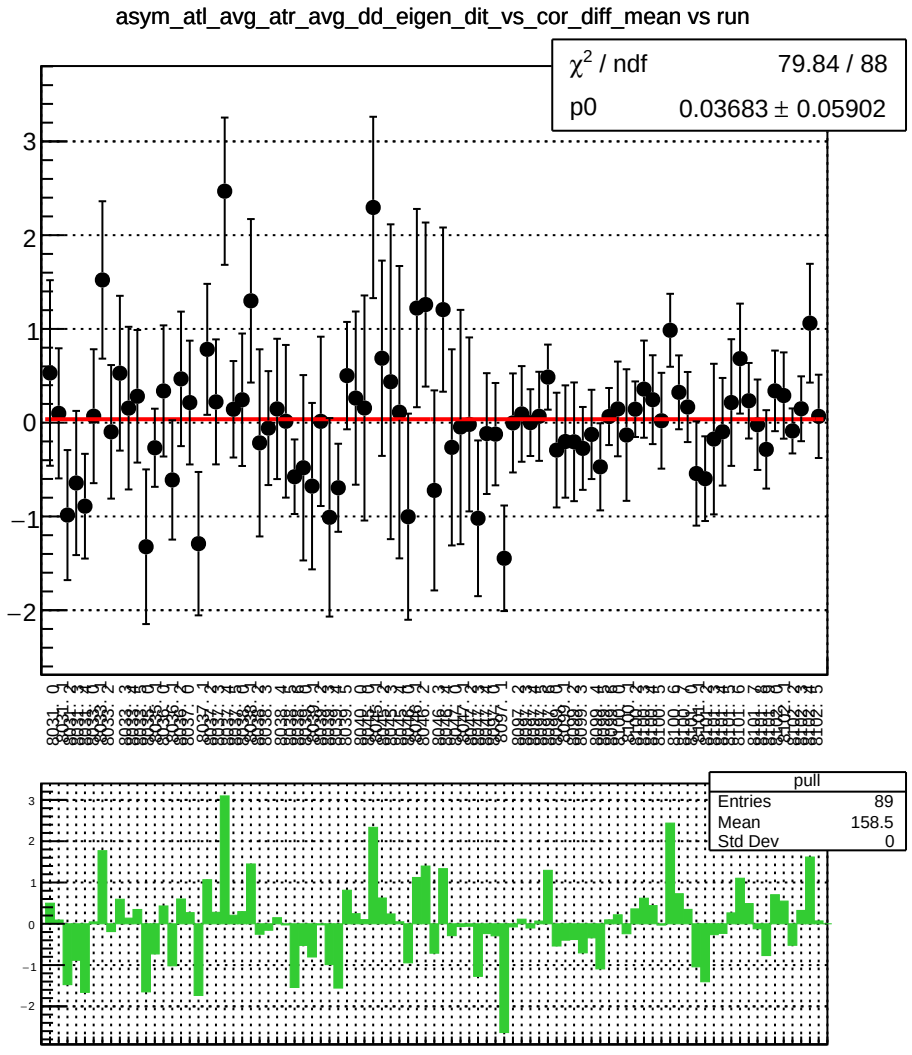

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.83 / 88
p0 0.03682 ± 0.05902
pull
Entries 89
Mean 158.4
Std Dev 0

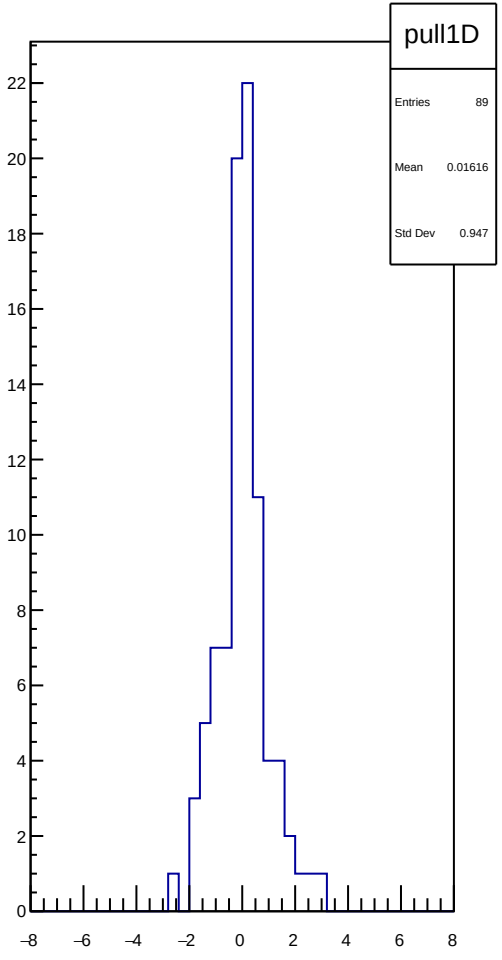

pull1D
Entries 89
Mean 0.01618
Std Dev 0.947

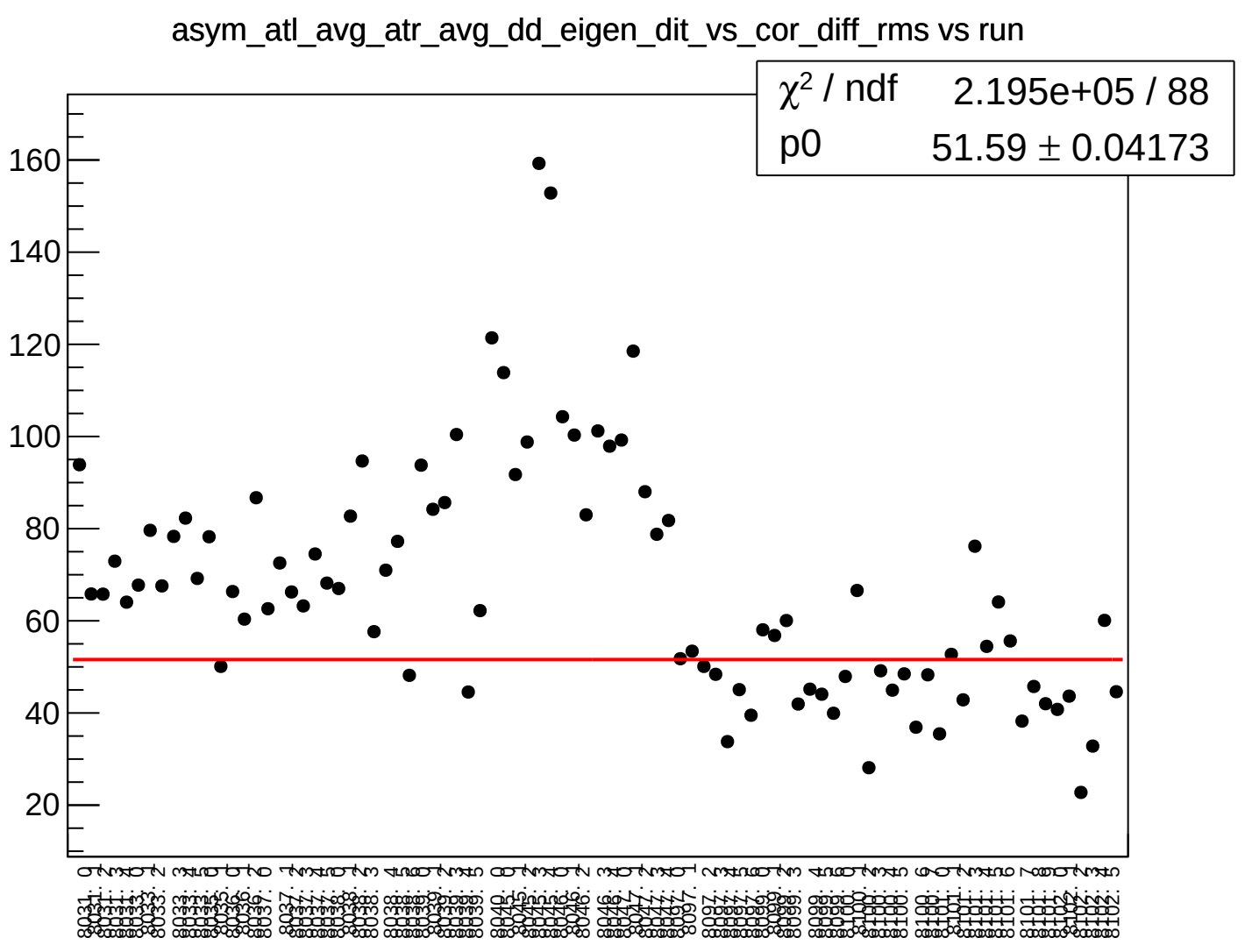

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.195e+05 / 88
p0 51.59 ± 0.04174
160
140
120
100
80
60
40
20

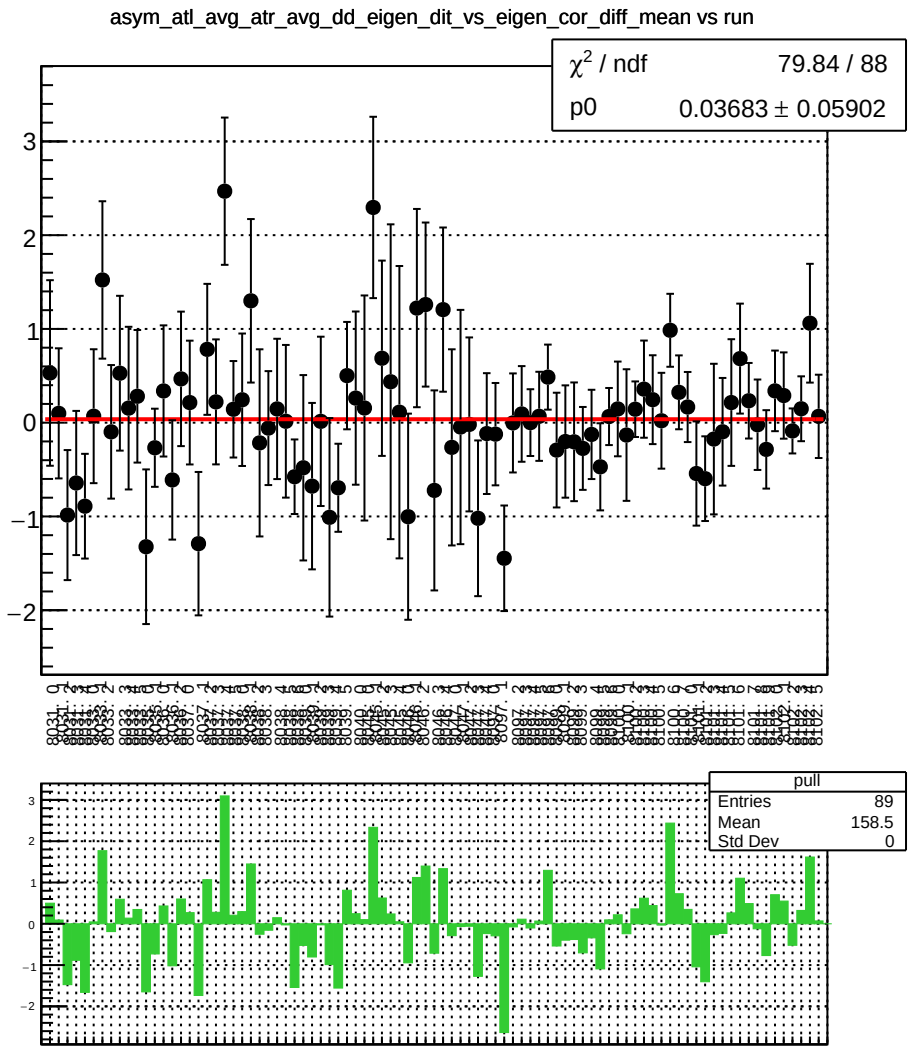

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 86.07 / 88
p0 −8.725e−07 ± 9.022e−07
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 89
Mean −3.334
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean 0.03187
Std Dev 0.9829
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

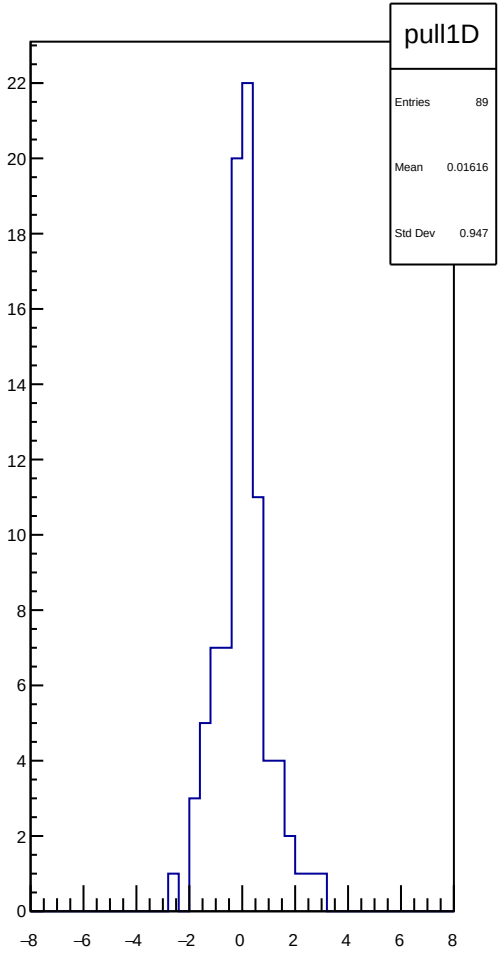

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.239e+05 / 88
p0 0.0006762 ± 6.38e−07
0.01
0.008
0.006
0.004
0.002

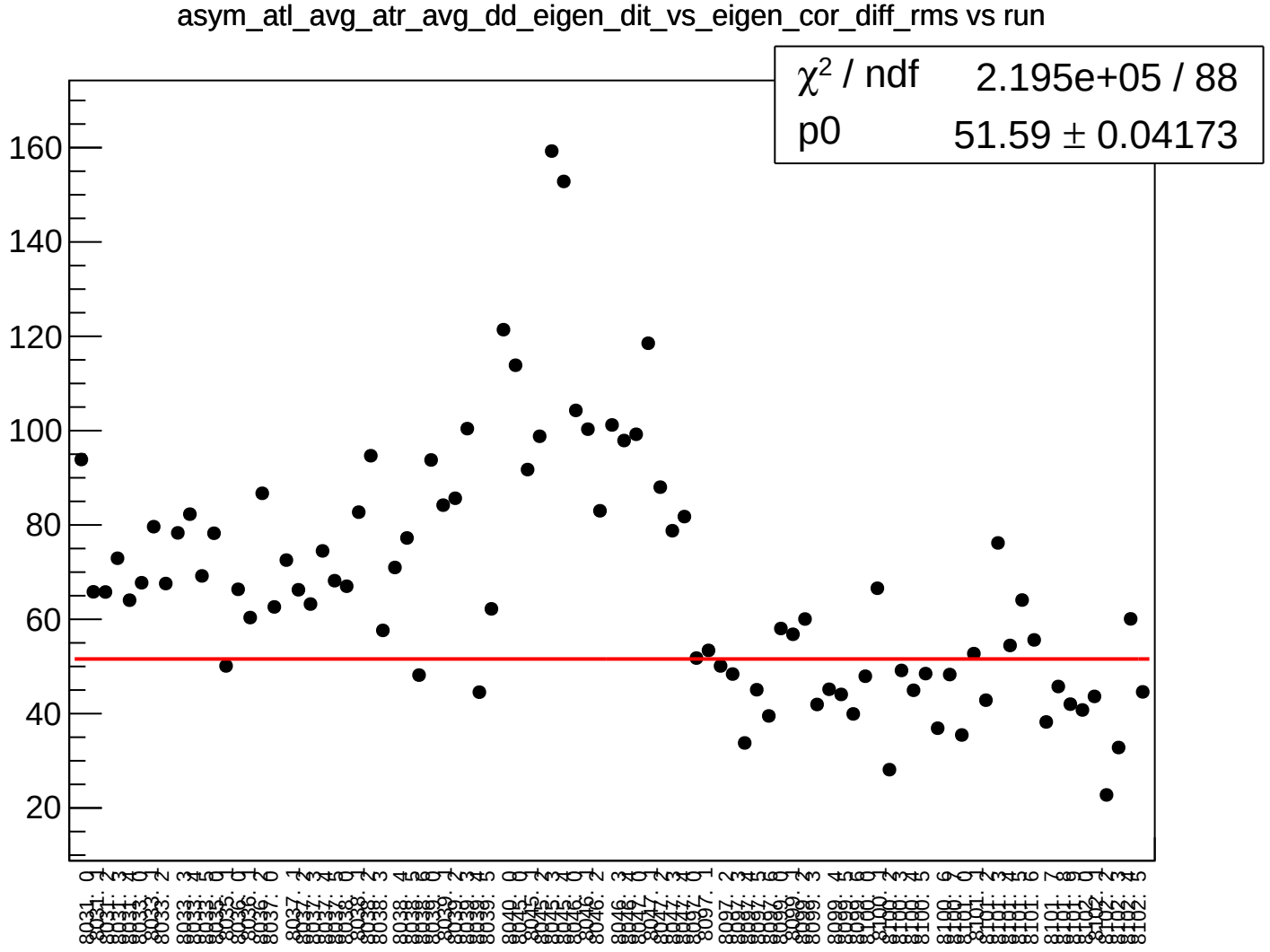

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.84 / 88
p0 0.03683 ± 0.05902
pull
Entries 89
Mean 158.5
Std Dev 0

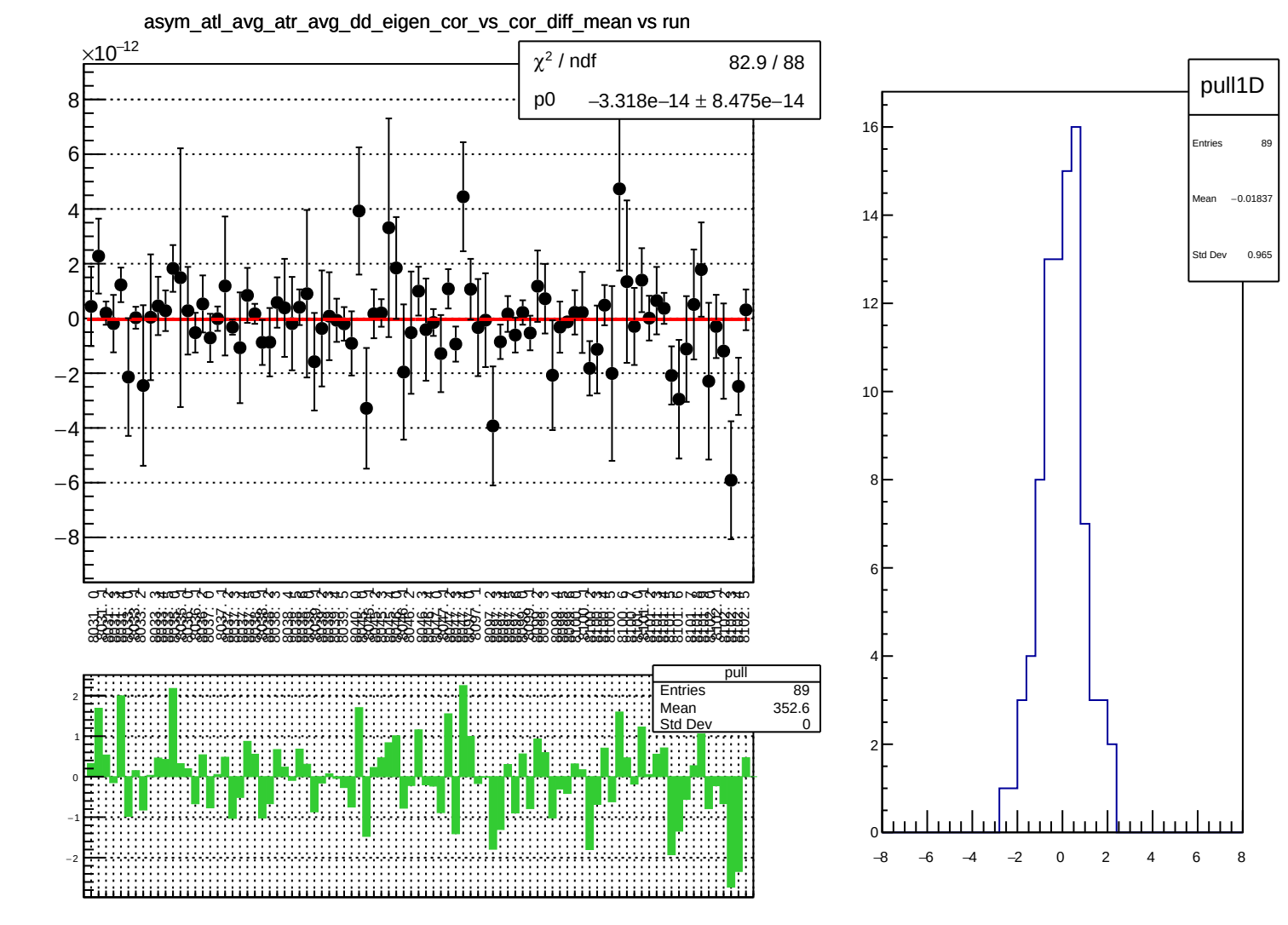

pull1D
Entries 89
Mean 0.01616
Std Dev 0.947

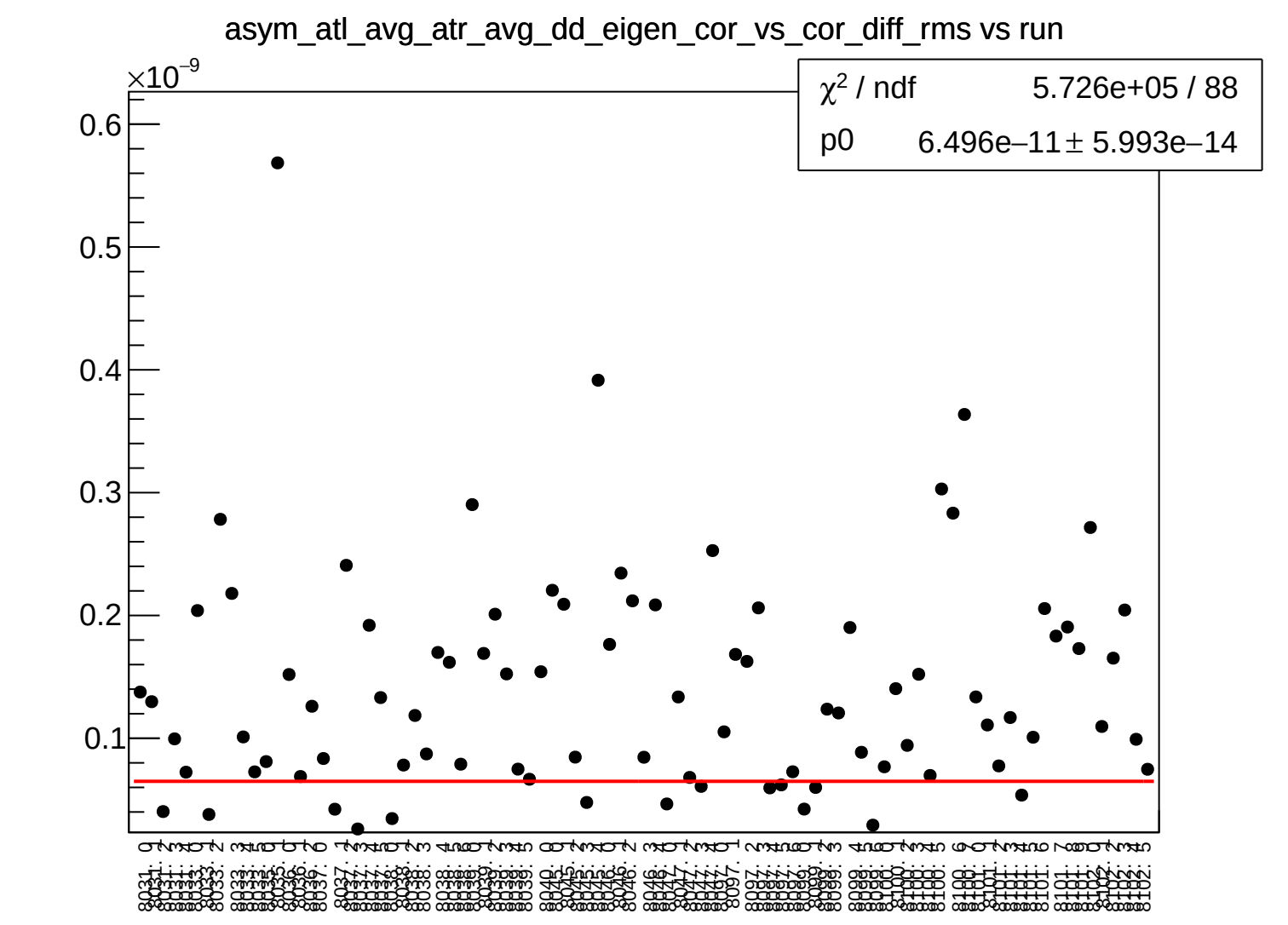

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.195e+05 / 88
p0 51.59 ± 0.04173
160
140
120
100
80
60
40
20

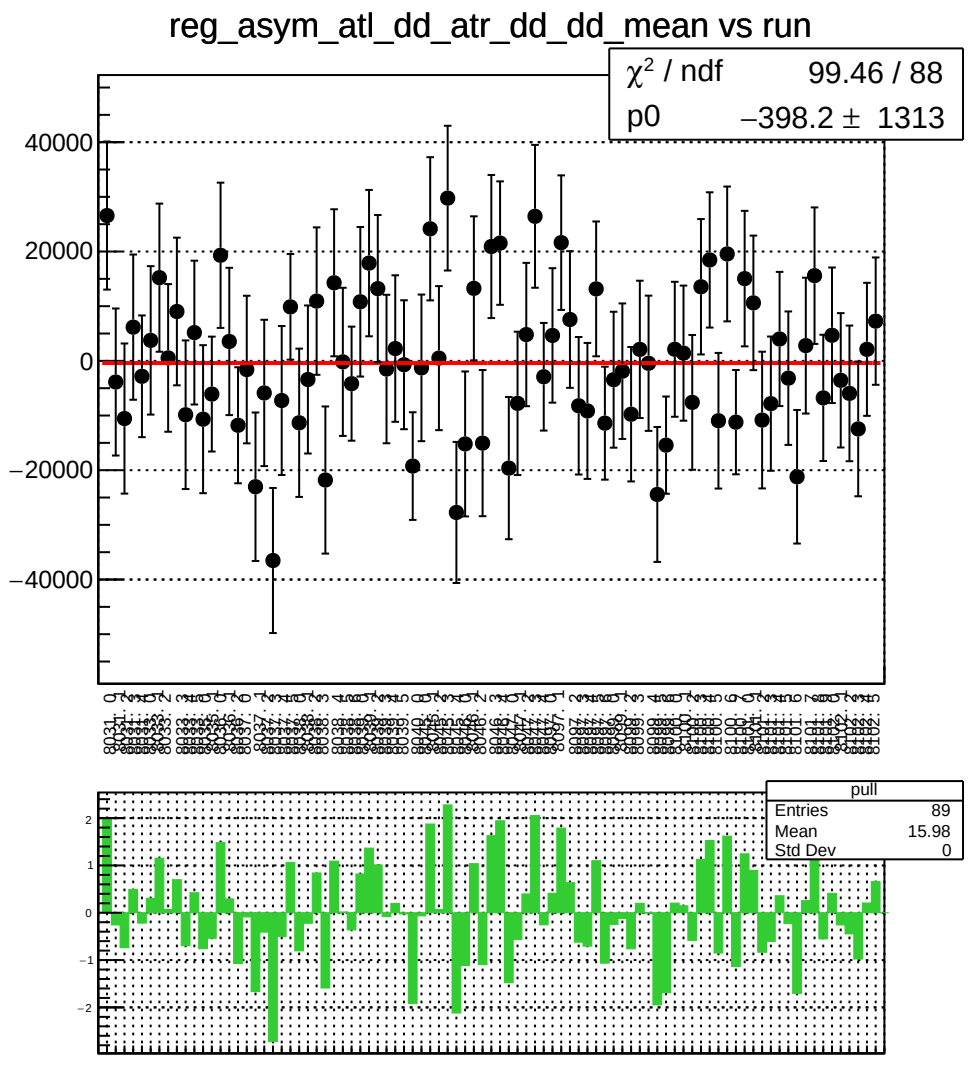

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.84 / 88
p0 0.03683 ± 0.05902
pull
Entries 89
Mean 158.5
Std Dev 0

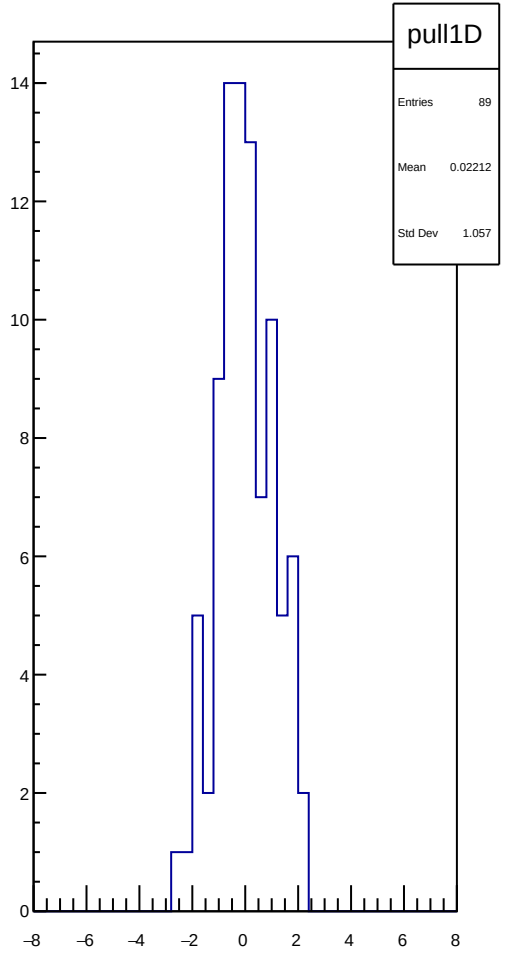

pull1D
Entries 89
Mean 0.01616
Std Dev 0.947

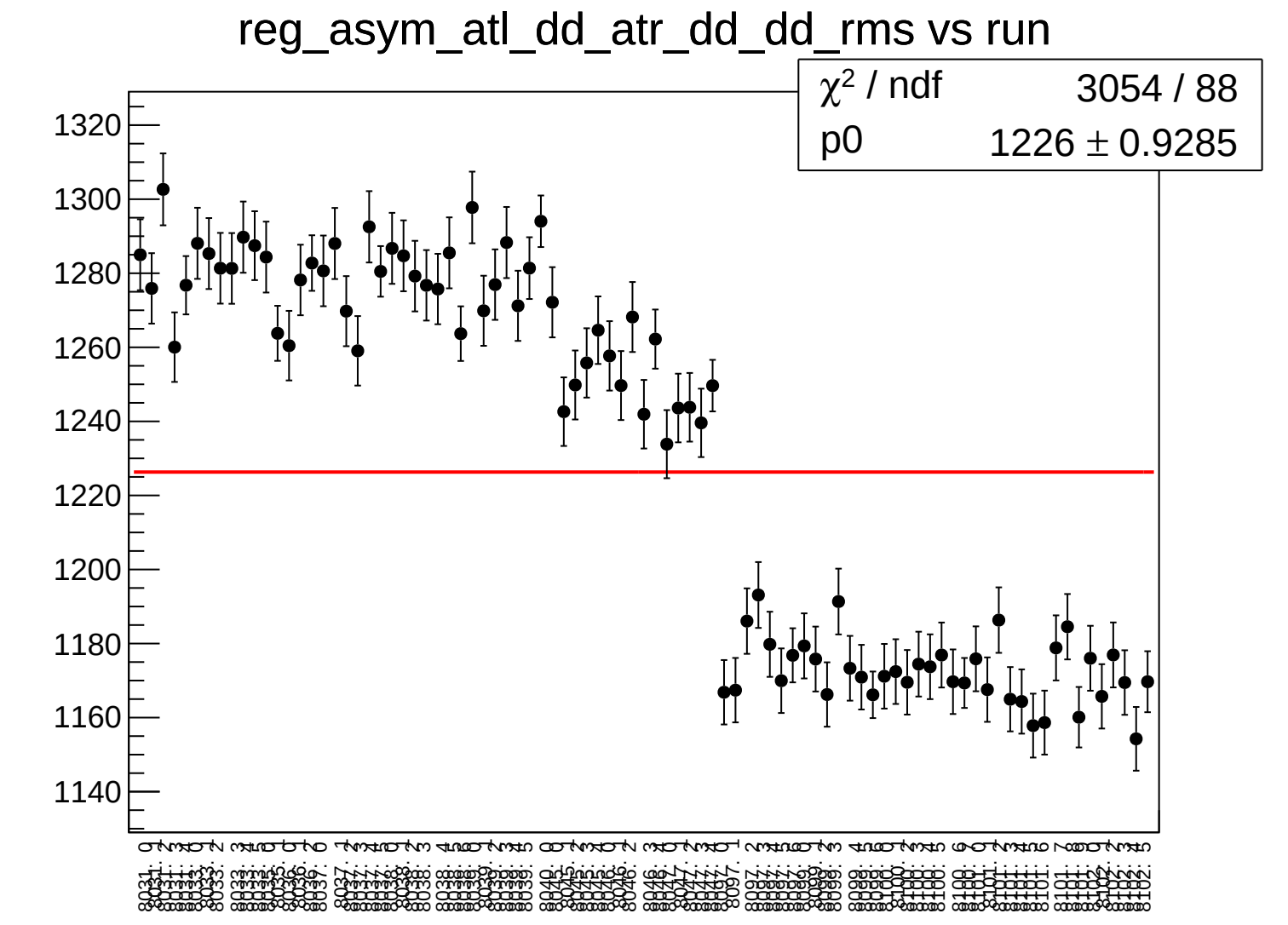

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.195e+05 / 88
p0 51.59 ± 0.04173
160
140
120
100
80
60
40
20

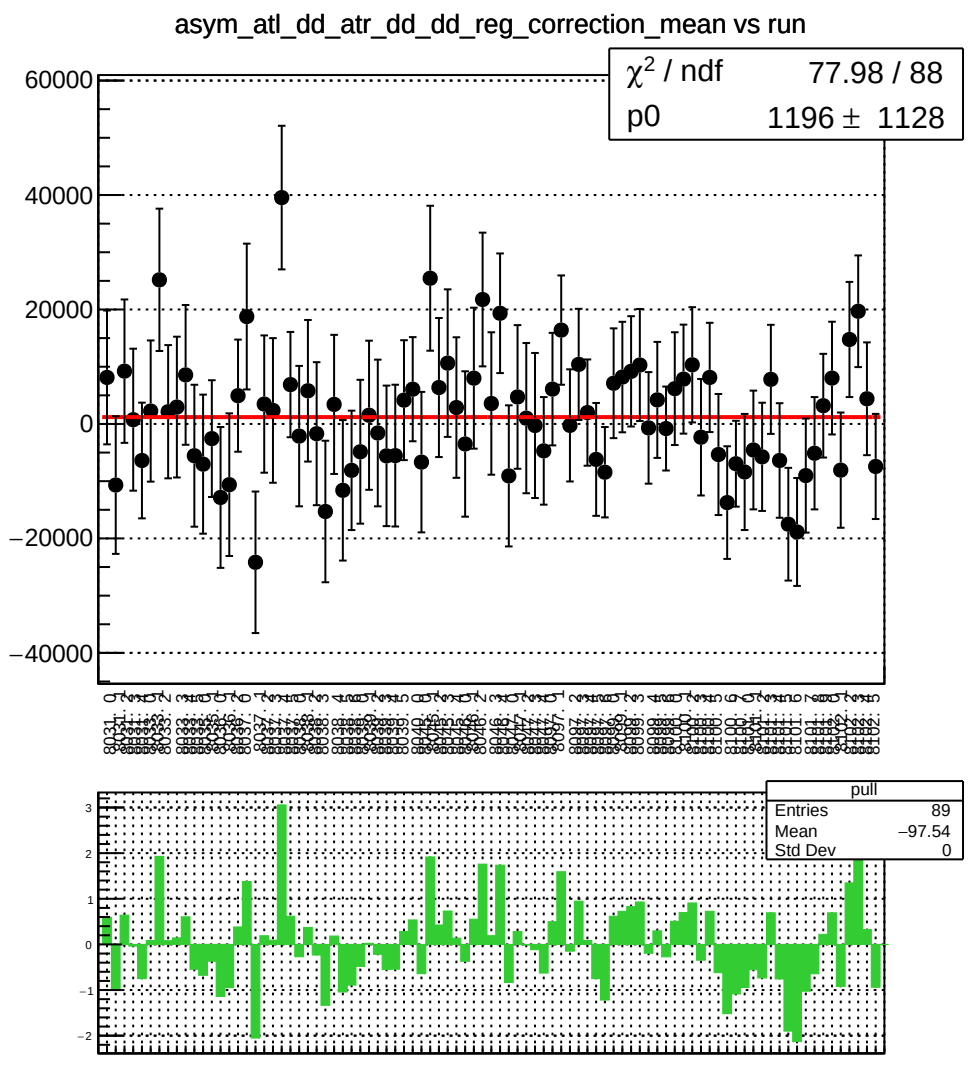

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.9 / 88
p0 −3.318e−14 ± 8.475e−14
pull
Entries 89
Mean 352.6
Std Dev 0
pull1D
Entries 89
Mean −0.01837
Std Dev 0.965

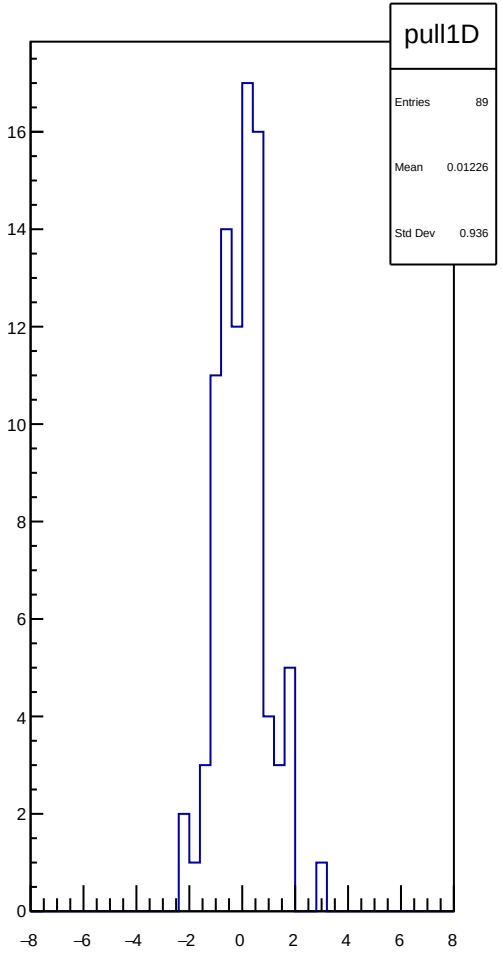

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.726e+05 / 88
p0 6.496e−11 ± 5.993e−14
0.6
0.5
0.4
0.3
0.2
0.1

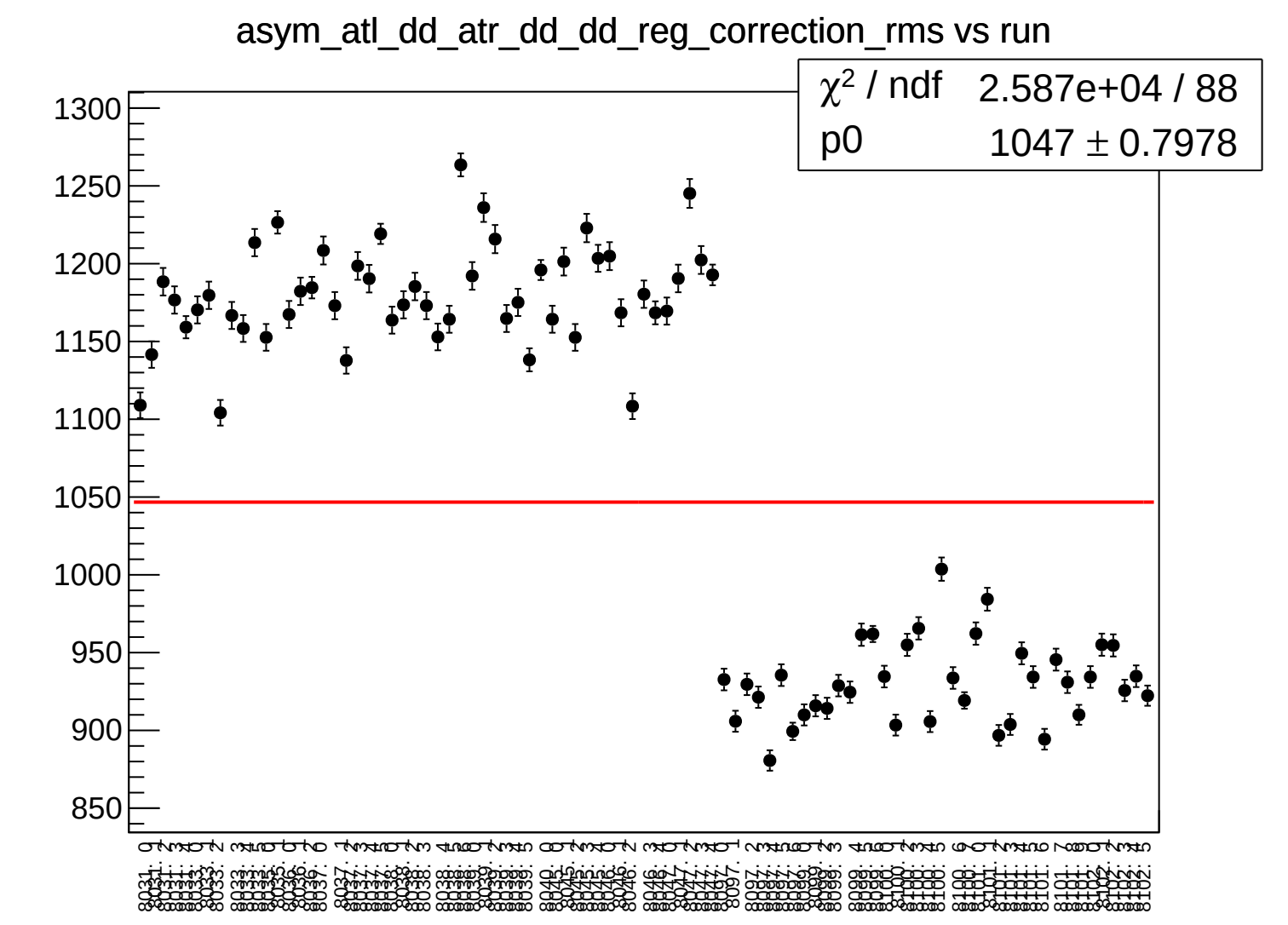

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 99.46 / 88
p0 −398.2 ± 1313
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 15.98
Std Dev 0
2
1
0
−1
−2

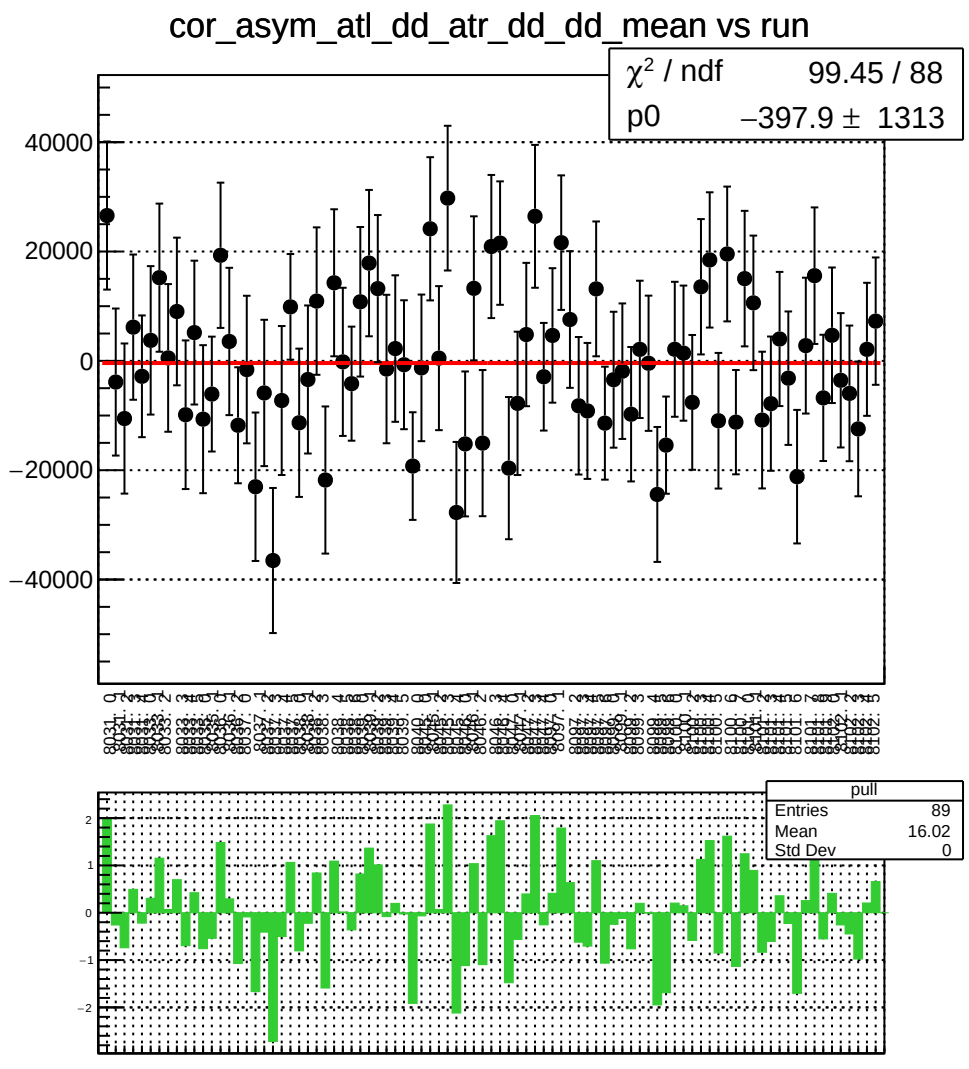

pull1D
Entries 89
Mean 0.02212
Std Dev 1.057
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

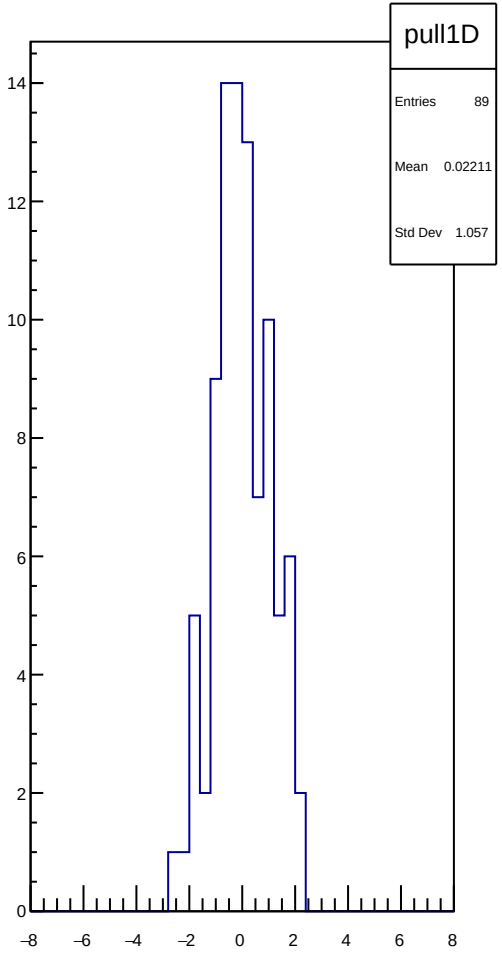

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 3054 / 88
p0 1226 ± 0.9285
1320
1300
1280
1260
1240
1220
1200
1180
1160
1140

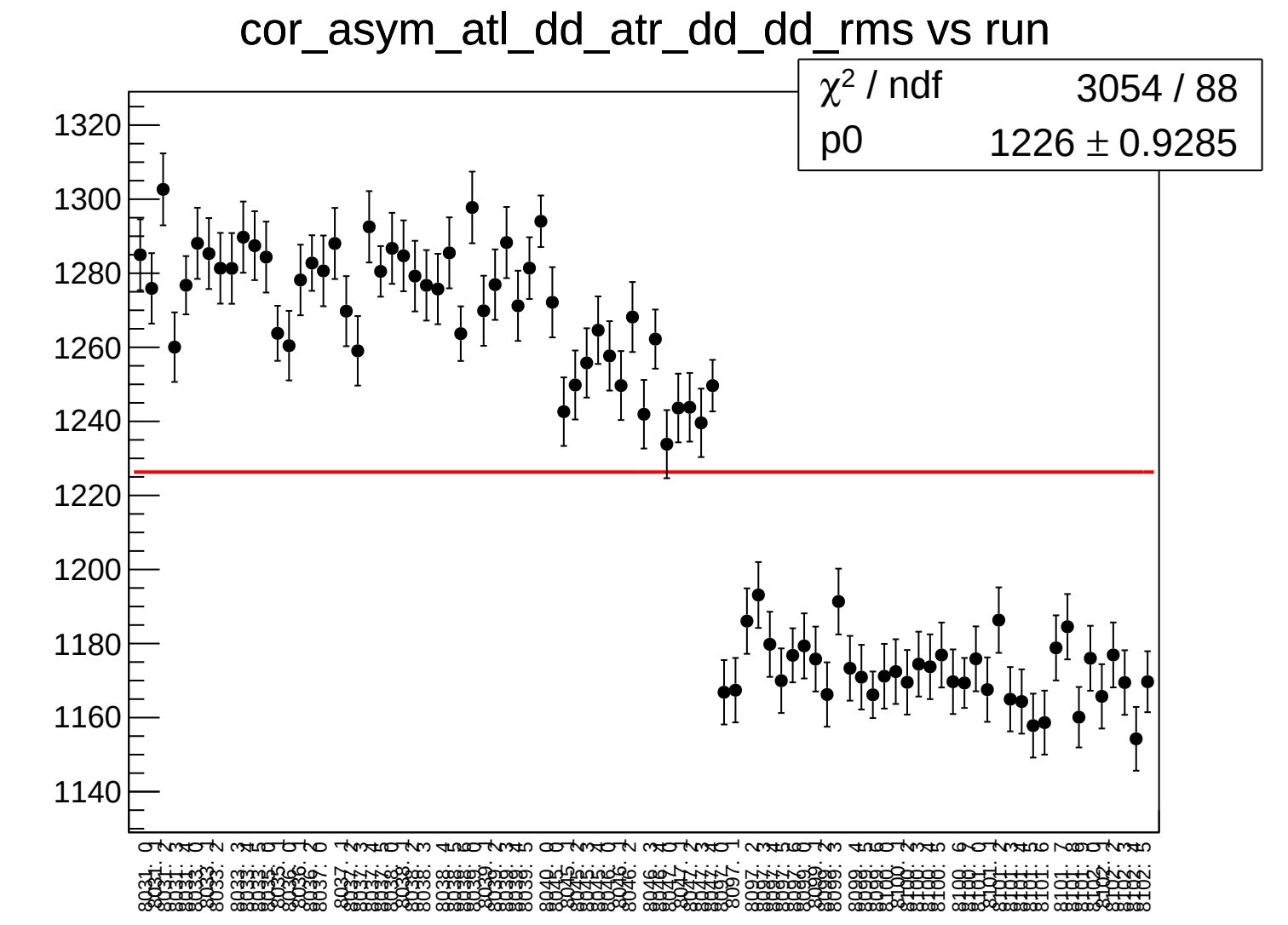

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 77.98 / 88
p0 1196 ± 1128
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −97.54
Std Dev 0
3
2
1
0
−1
−2

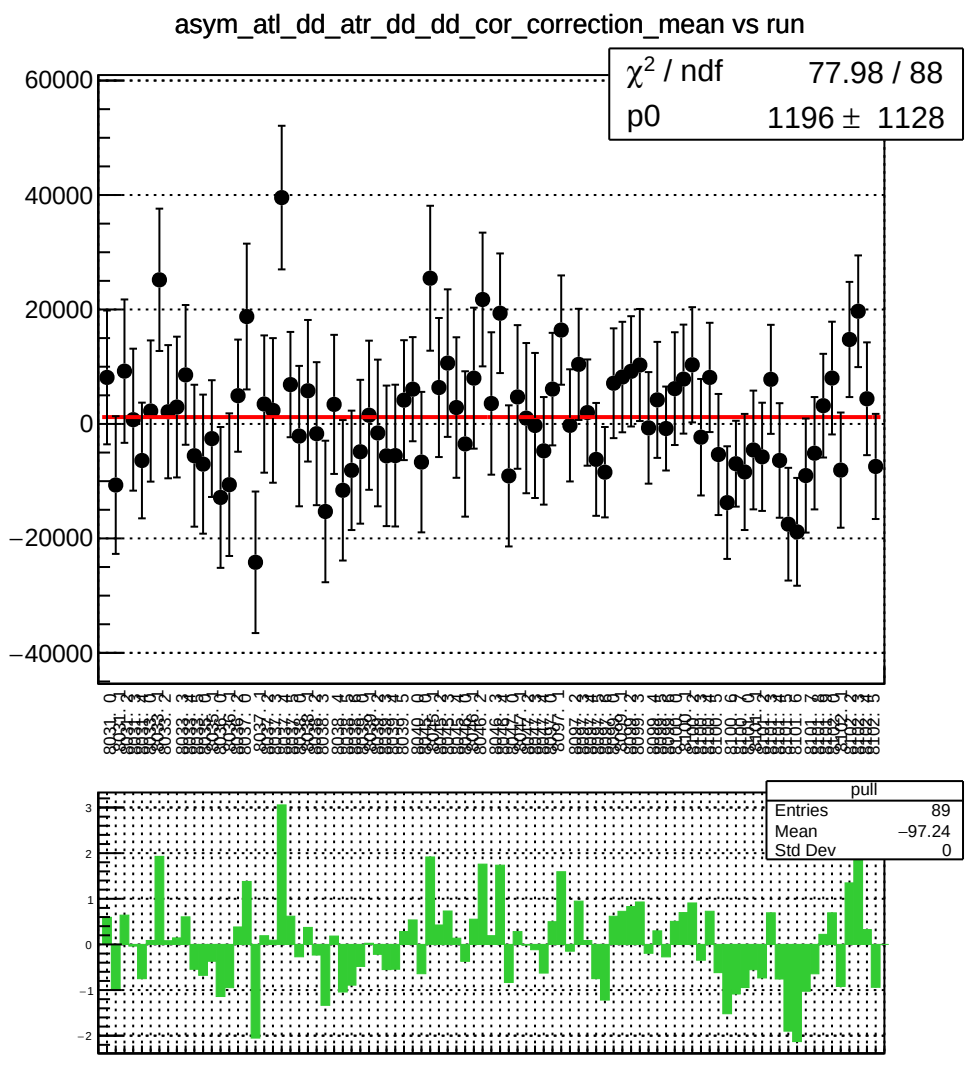

pull1D
Entries 89
Mean 0.01226
Std Dev 0.936
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

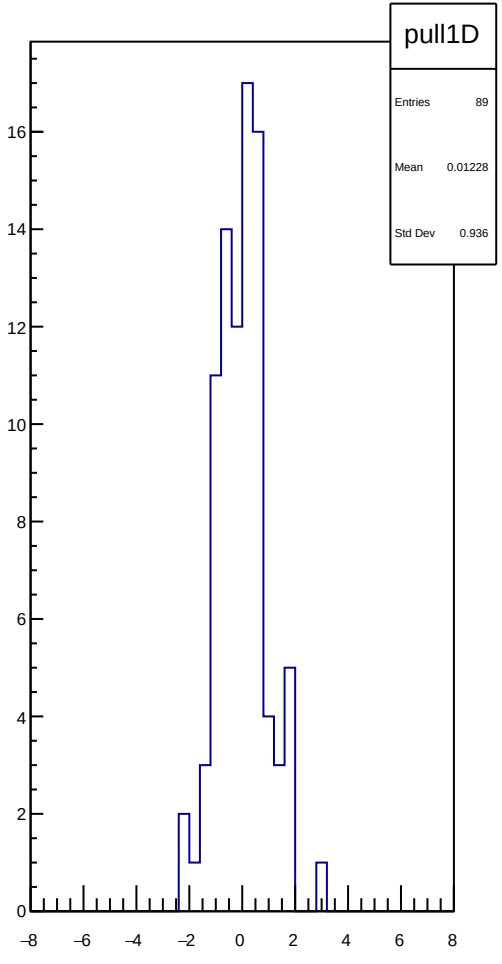

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 2.587e+04 / 88
p0 1047 ± 0.7978
1300
1250
1200
1150
1100
1050
1000
950
900
850

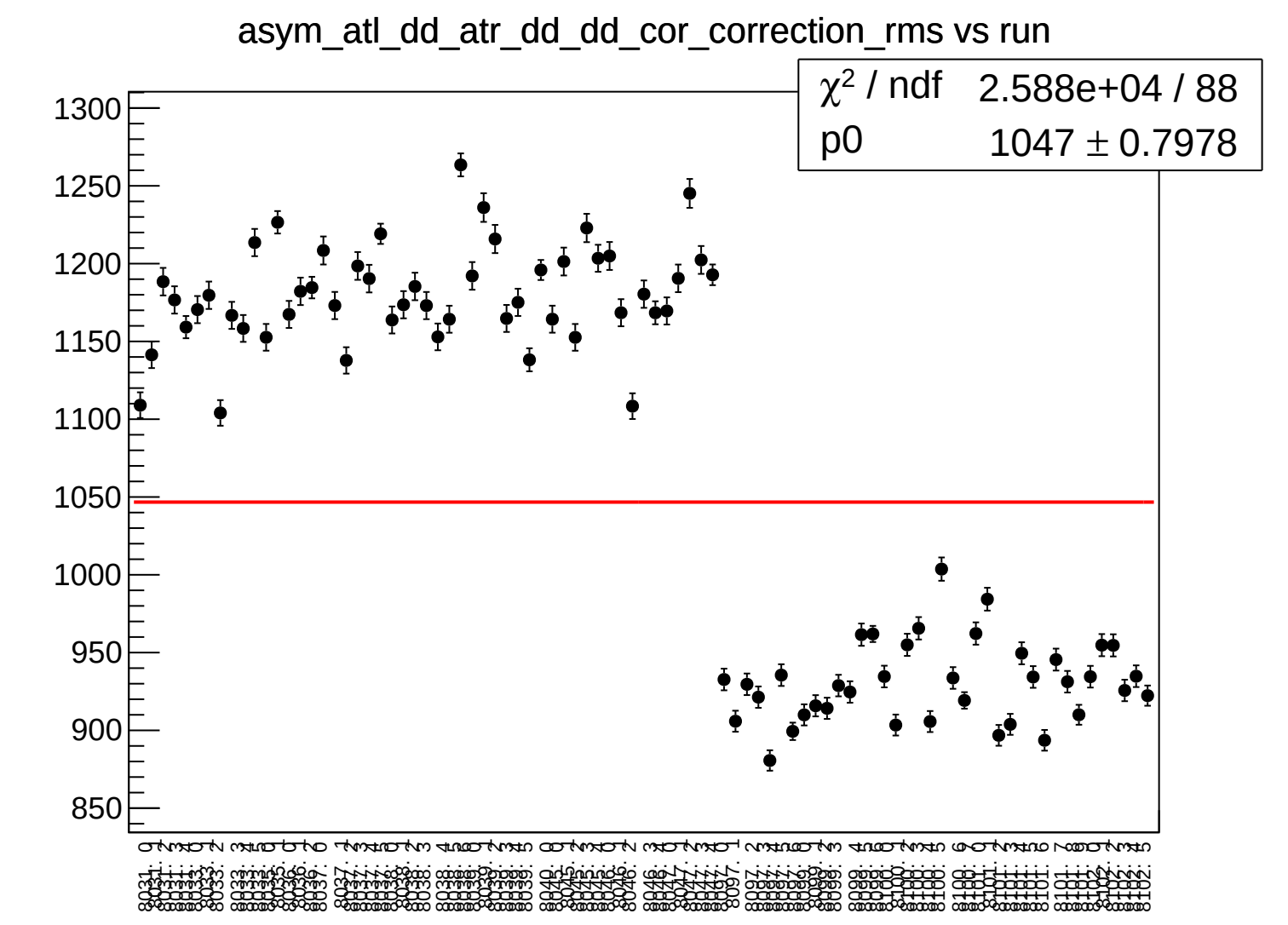

cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 99.45 / 88
p0 −397.9 ± 1313
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 16.02
Std Dev 0
2
1
0
−1
−2

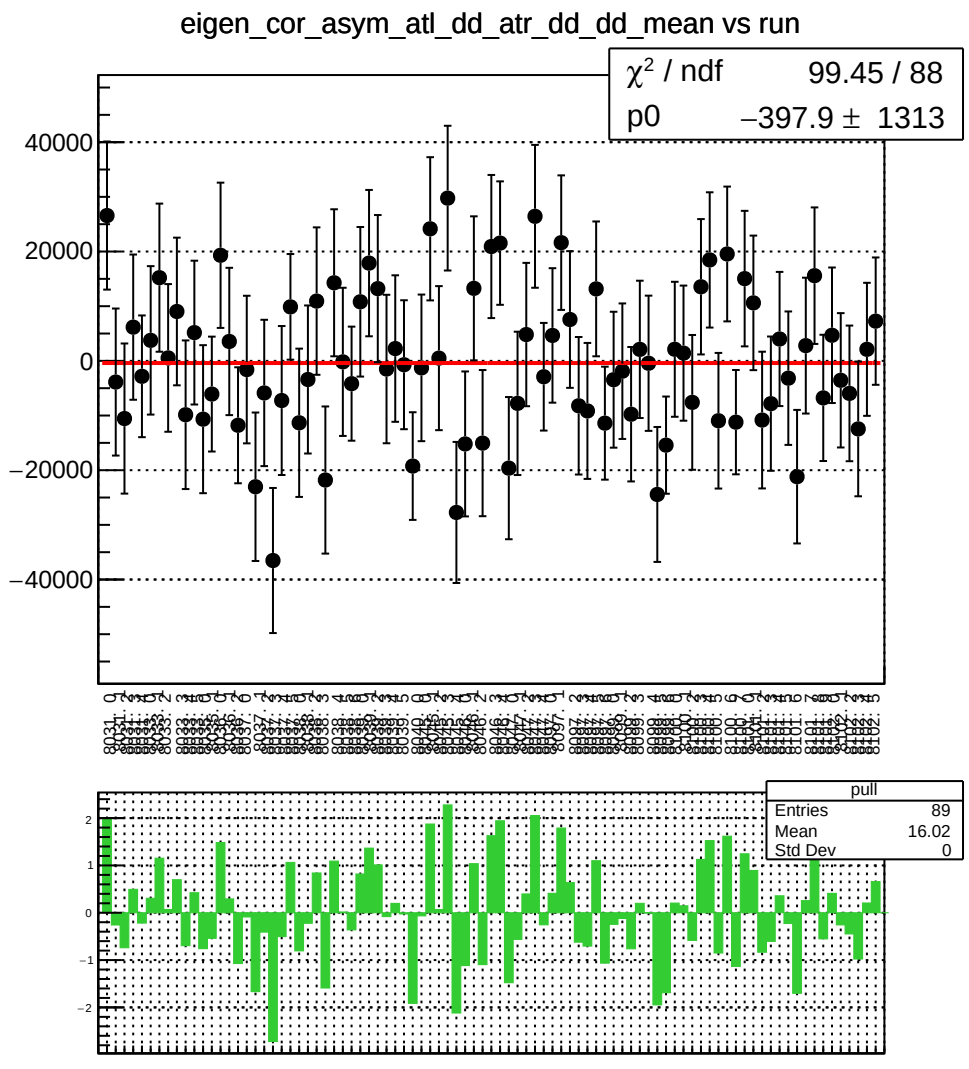

pull1D
Entries 89
Mean 0.02211
Std Dev 1.057
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

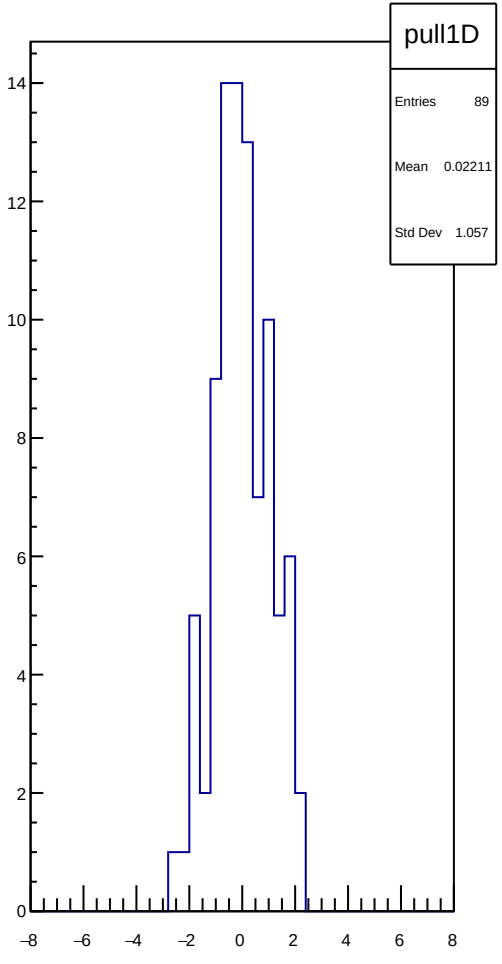

cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 3054 / 88
p0 1226 ± 0.9285
1320
1300
1280
1260
1240
1220
1200
1180
1160
1140

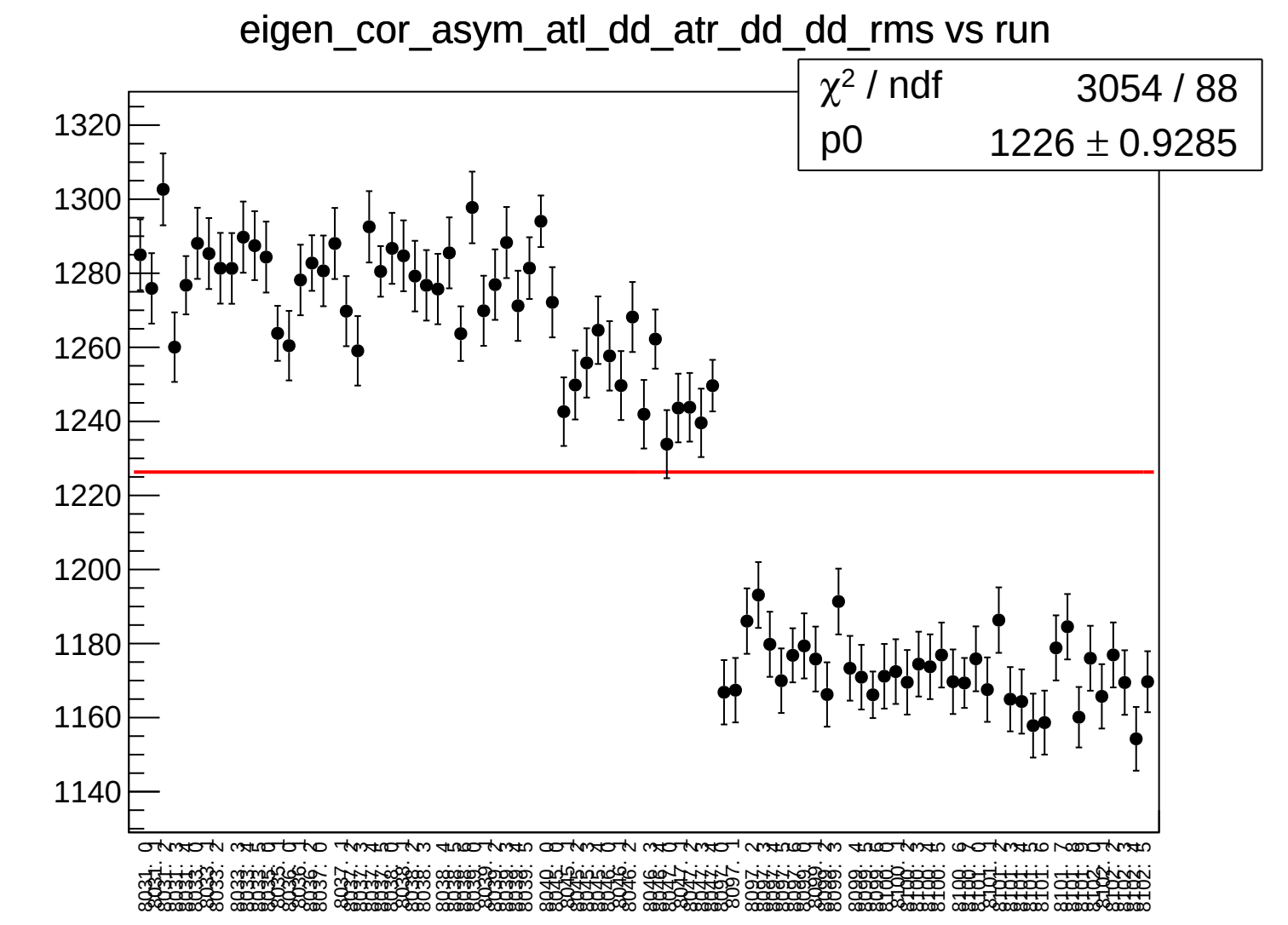

asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 77.98 / 88
p0 1196 ± 1128
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −97.24
Std Dev 0
3
2
1
0
−1
−2

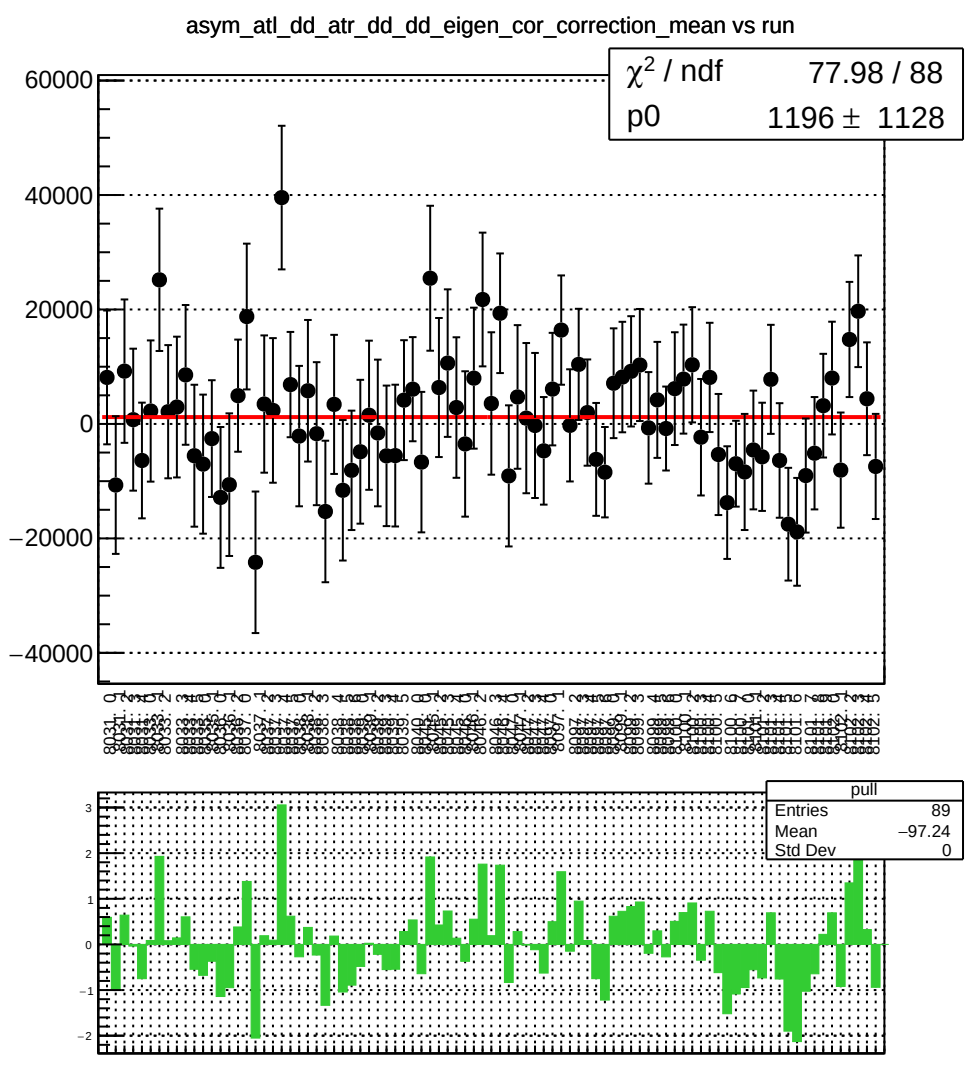

pull1D
Entries 89
Mean 0.01228
Std Dev 0.936
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

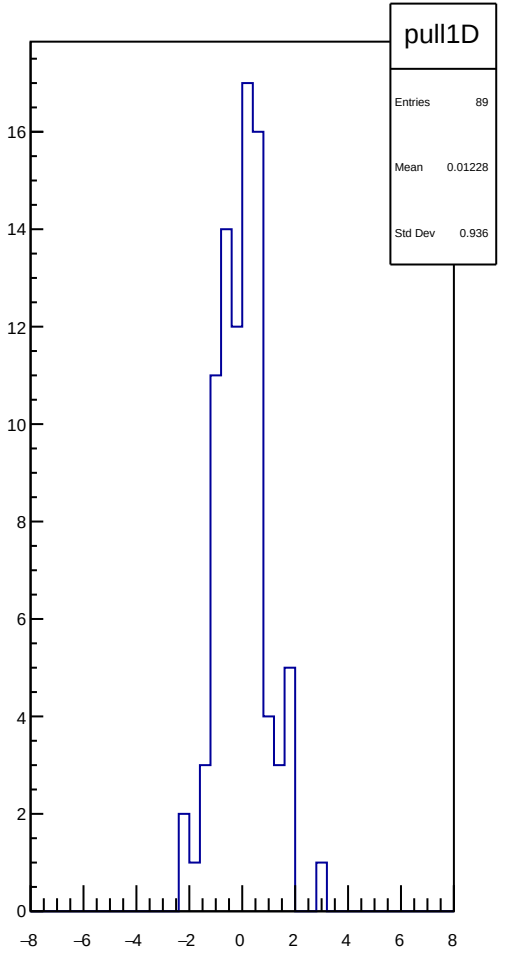

asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 2.588e+04 / 88
p0 1047 ± 0.7978
1300
1250
1200
1150
1100
1050
1000
950
900
850

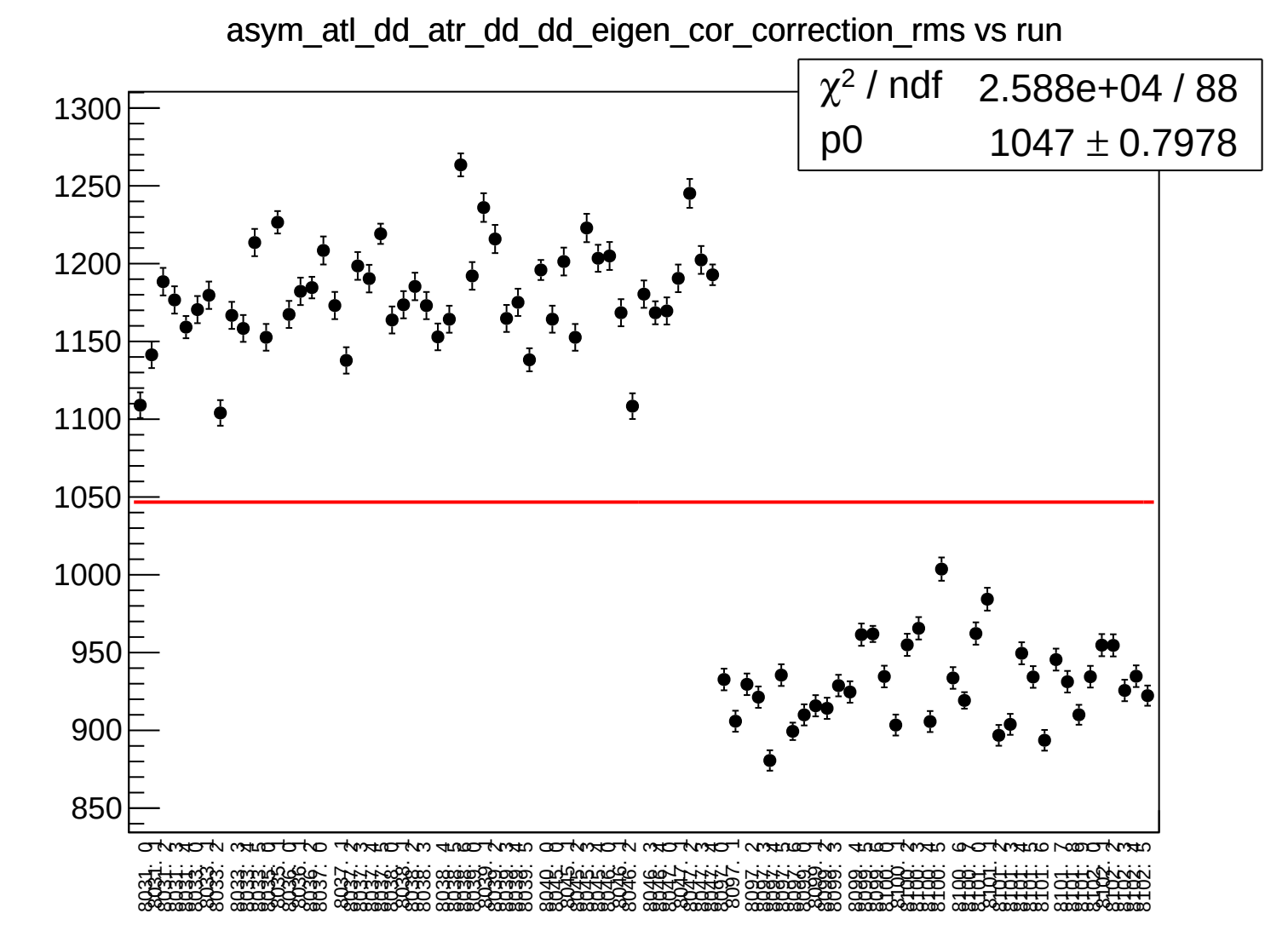

eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 99.45 / 88
p0 −397.9 ± 1313
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 16.02
Std Dev 0
2
1
0
−1
−2

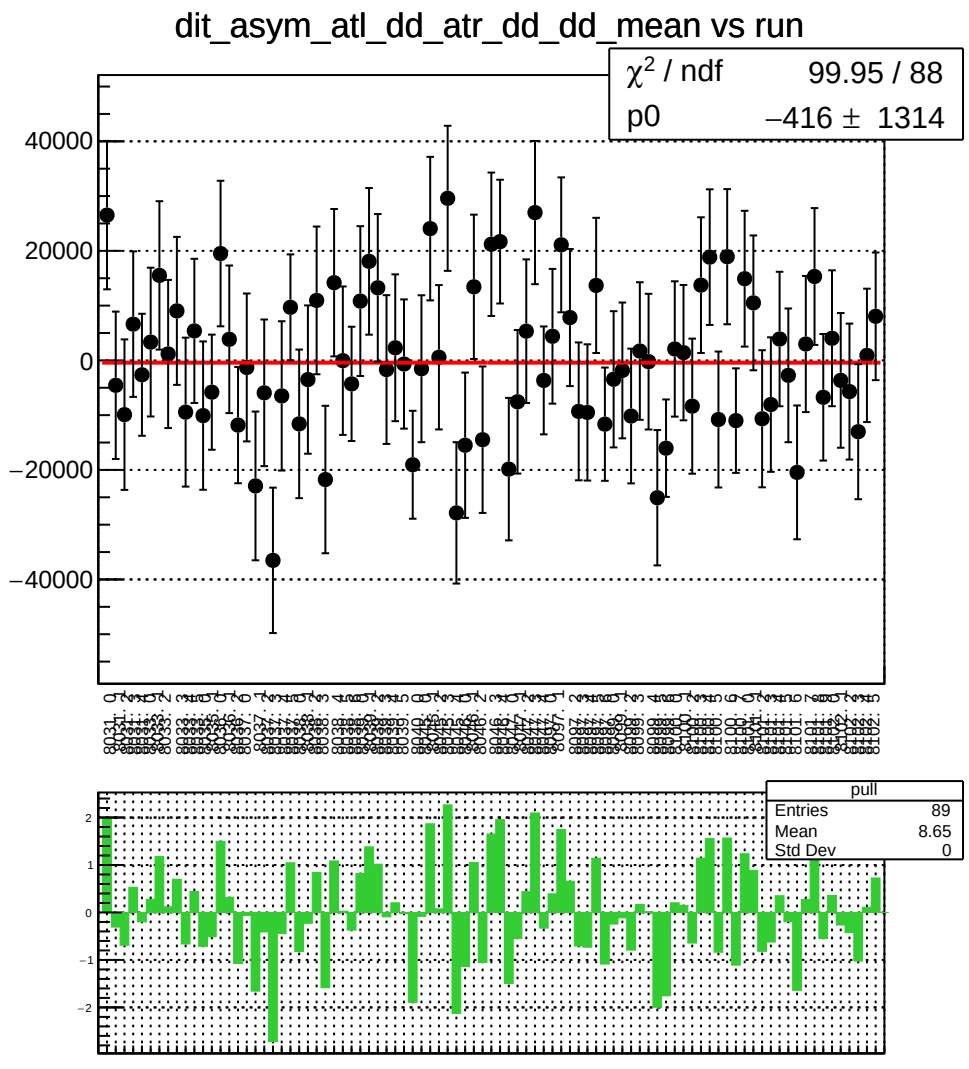

pull1D
Entries 89
Mean 0.02211
Std Dev 1.057
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

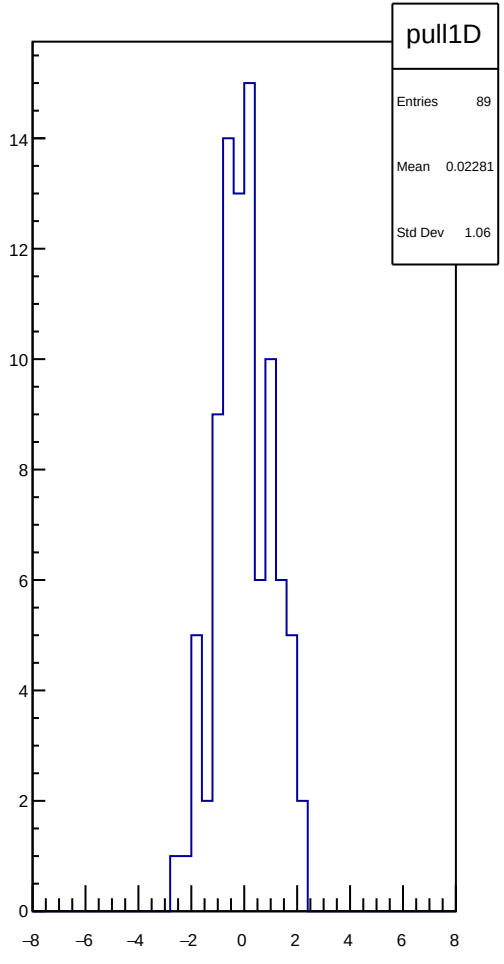

eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 3054 / 88
p0 1226 ± 0.9285
1320
1300
1280
1260
1240
1220
1200
1180
1160
1140

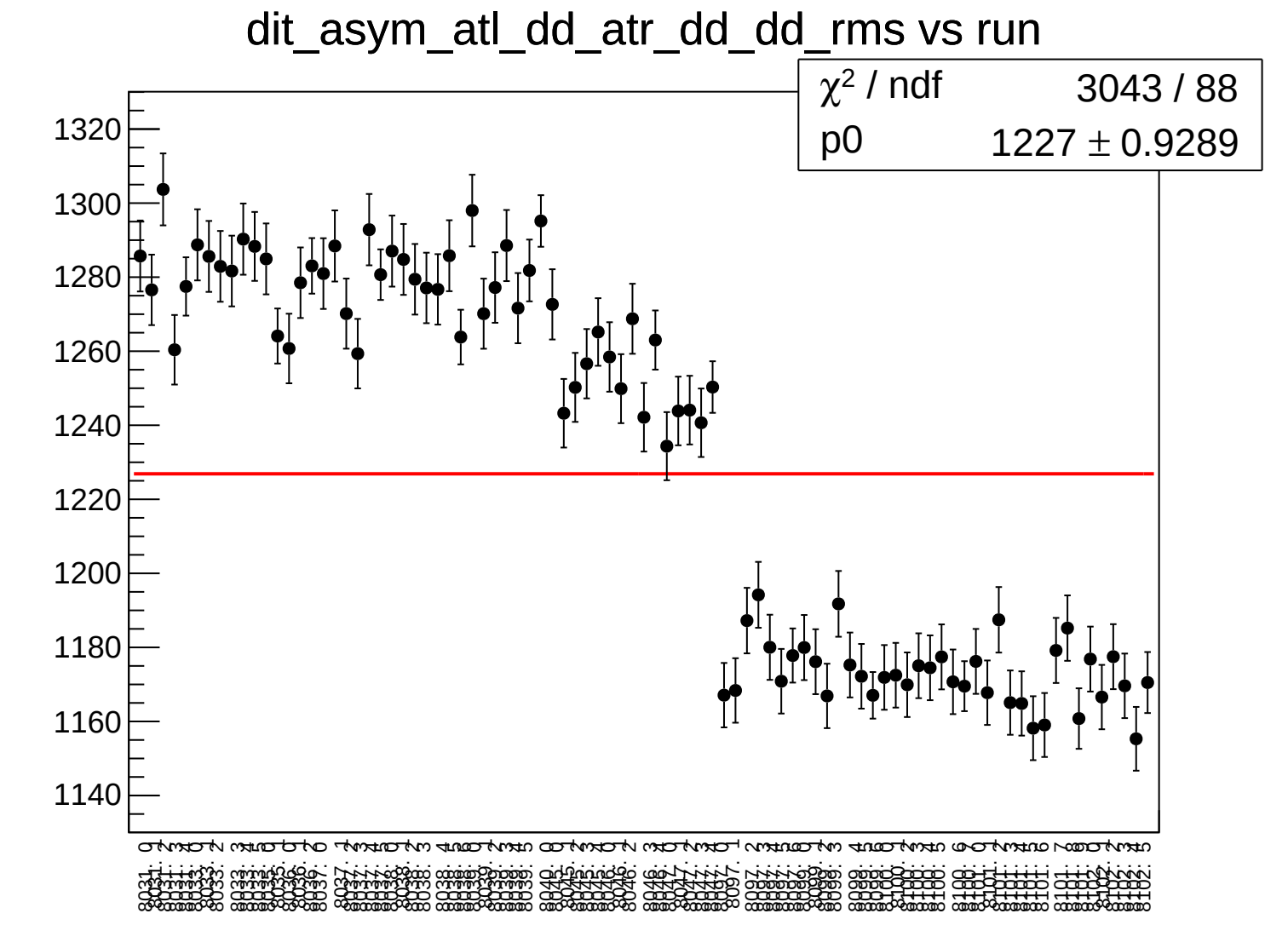

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 77.98 / 88
p0 1196 ± 1128
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −97.24
Std Dev 0
3
2
1
0
−1
−2

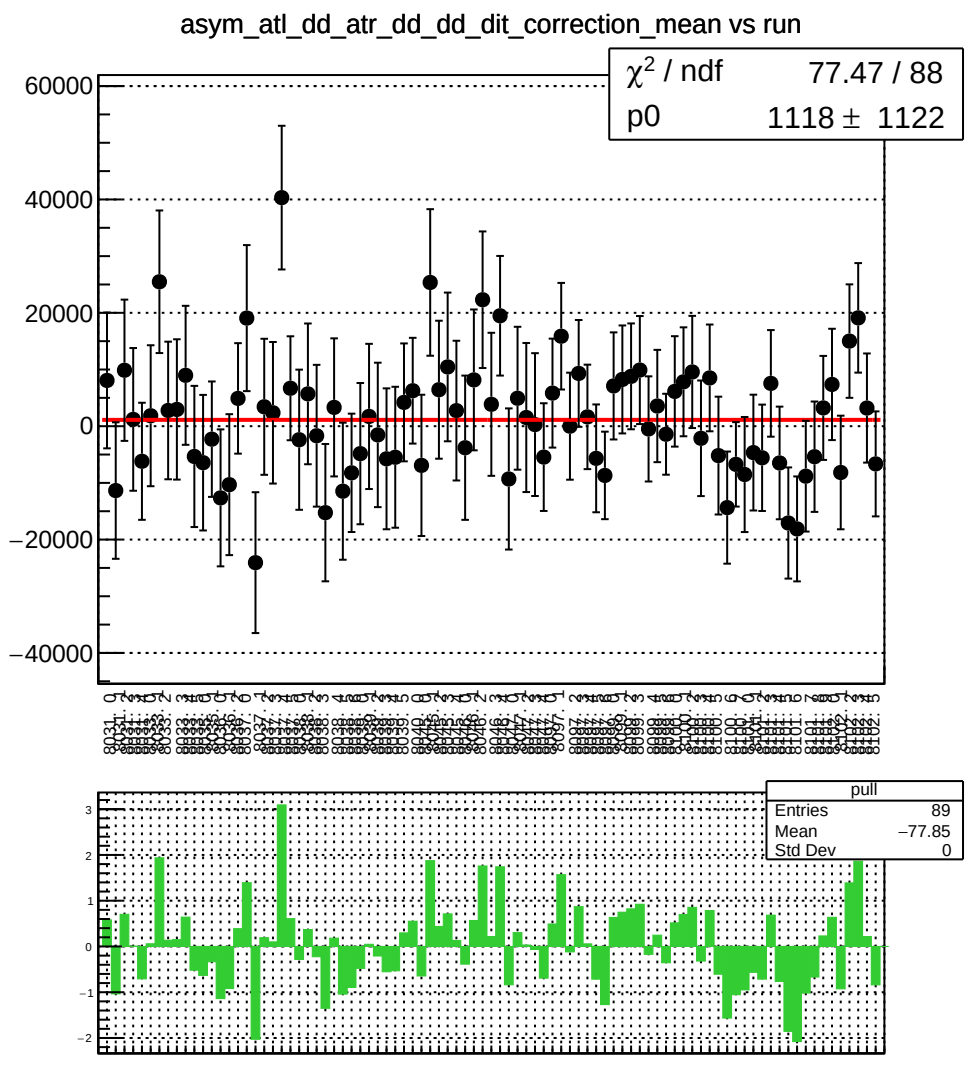

pull1D
Entries 89
Mean 0.01228
Std Dev 0.936
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

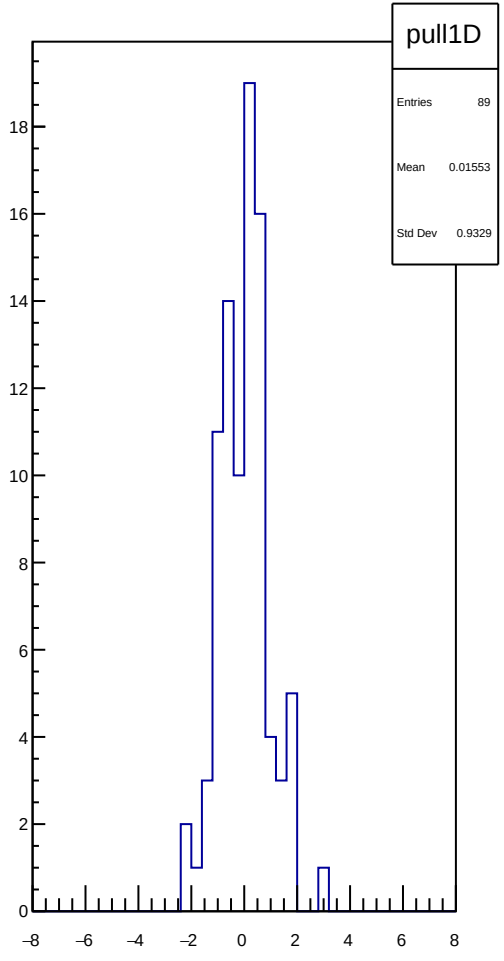

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.588e+04 / 88
p0 1047 ± 0.7978
1300
1250
1200
1150
1100
1050
1000
950
900
850

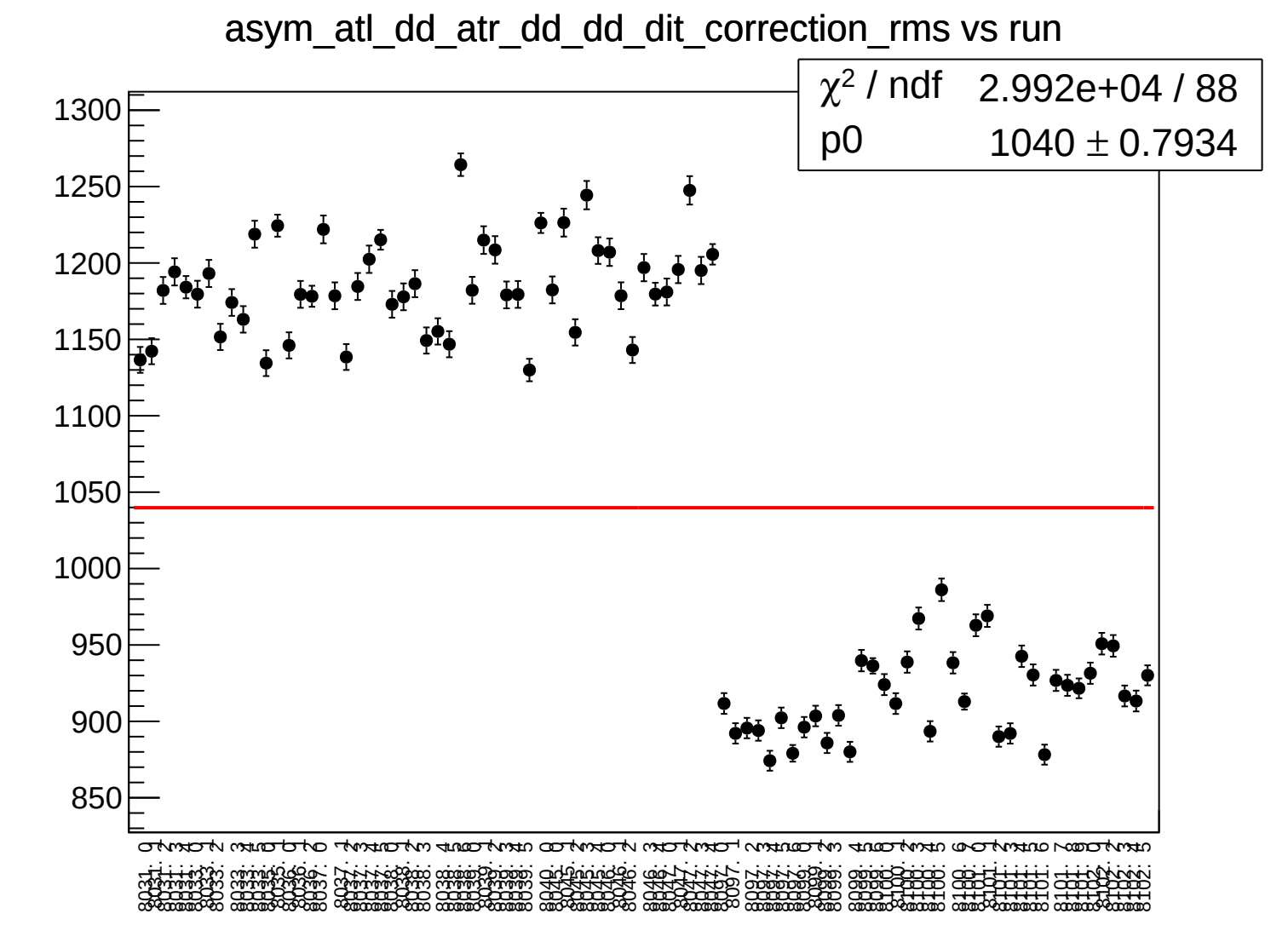

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 99.95 / 88
p0 −416 ± 1314
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 8.65
Std Dev 0
2
1
0
−1
−2

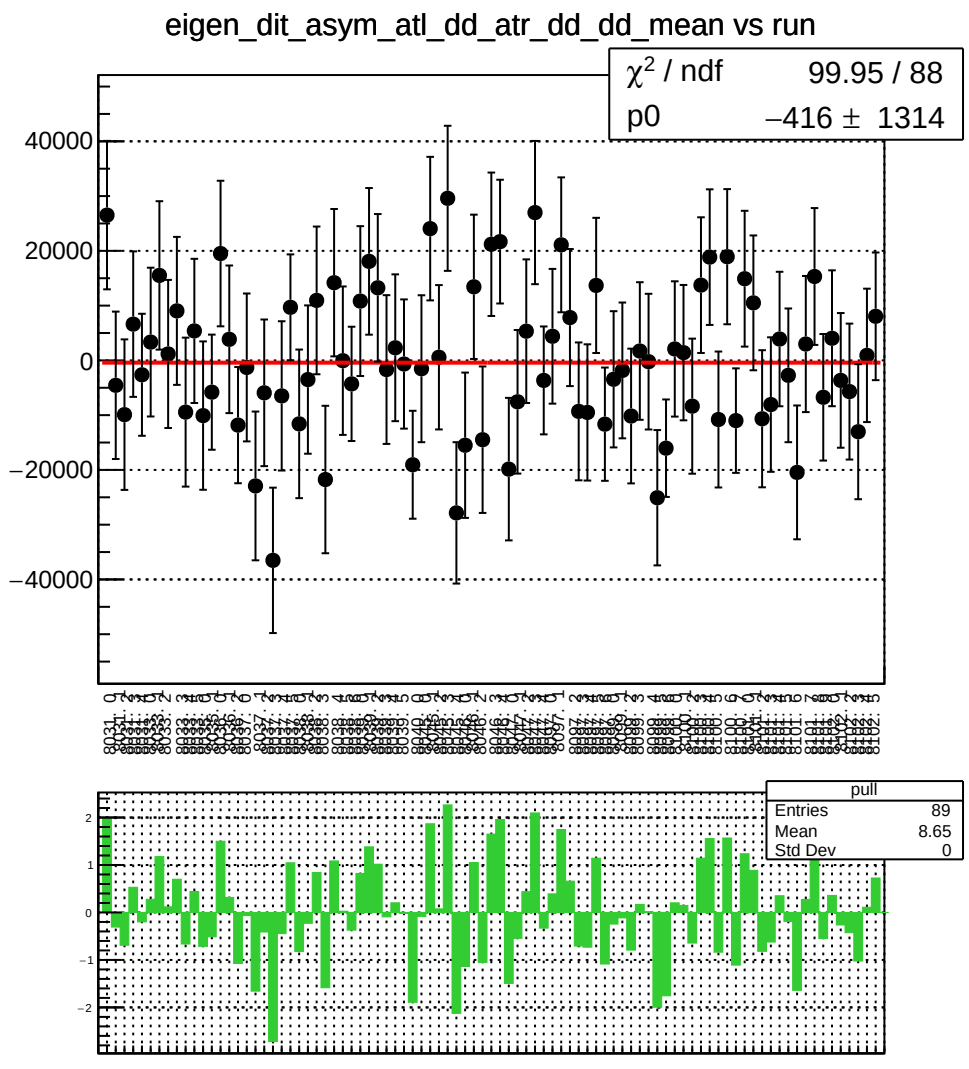

pull1D
Entries 89
Mean 0.02281
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

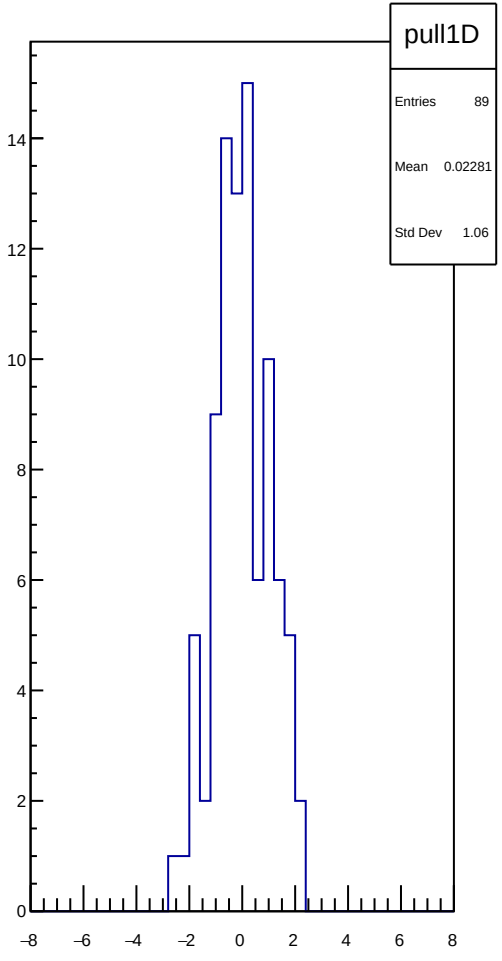

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 3043 / 88
p0 1227 ± 0.9289
1320
1300
1280
1260
1240
1220
1200
1180
1160
1140

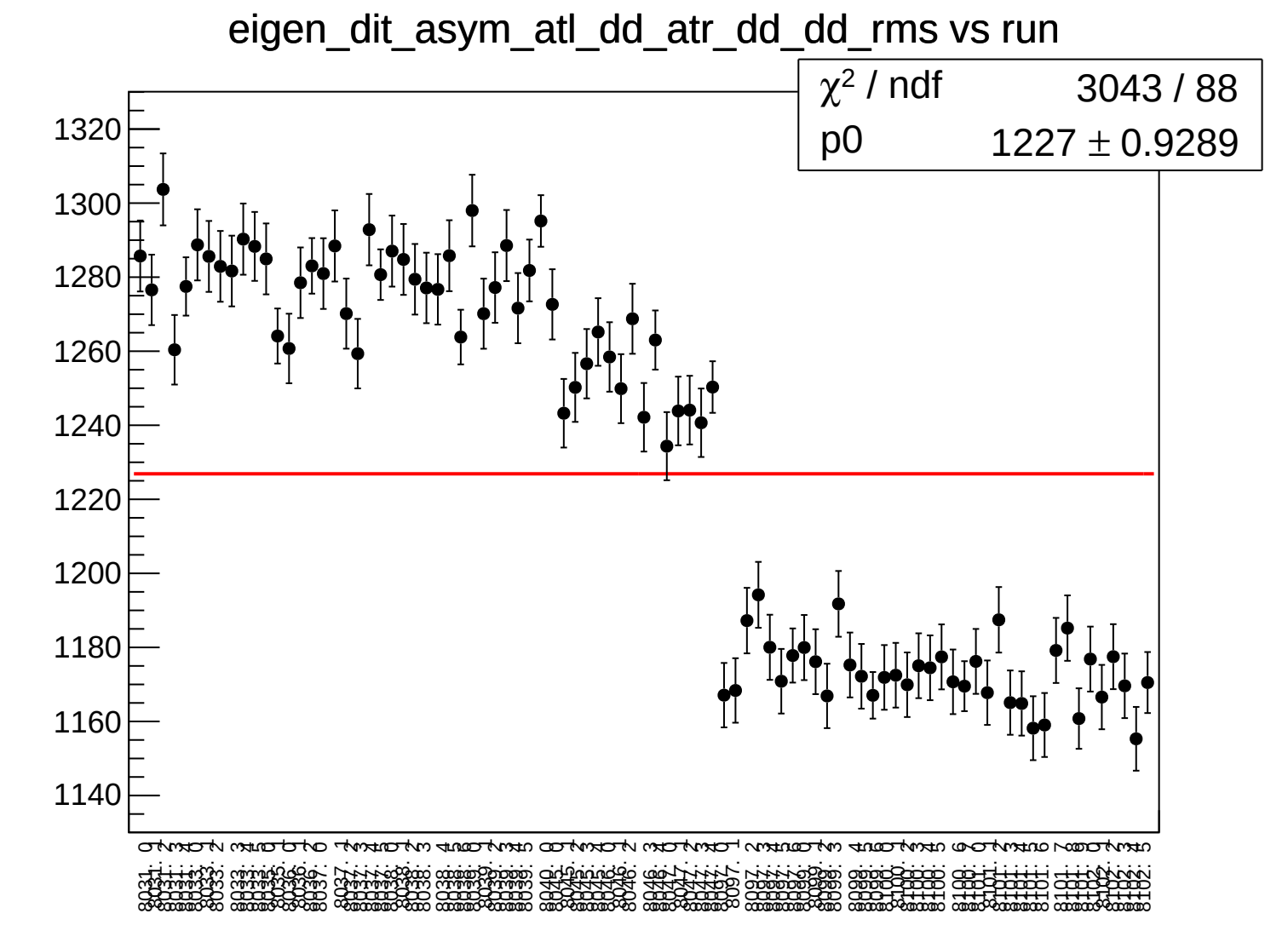

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 77.47 / 88
p0 1118 ± 1122
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −77.85
Std Dev 0
3
2
1
0
−1
−2

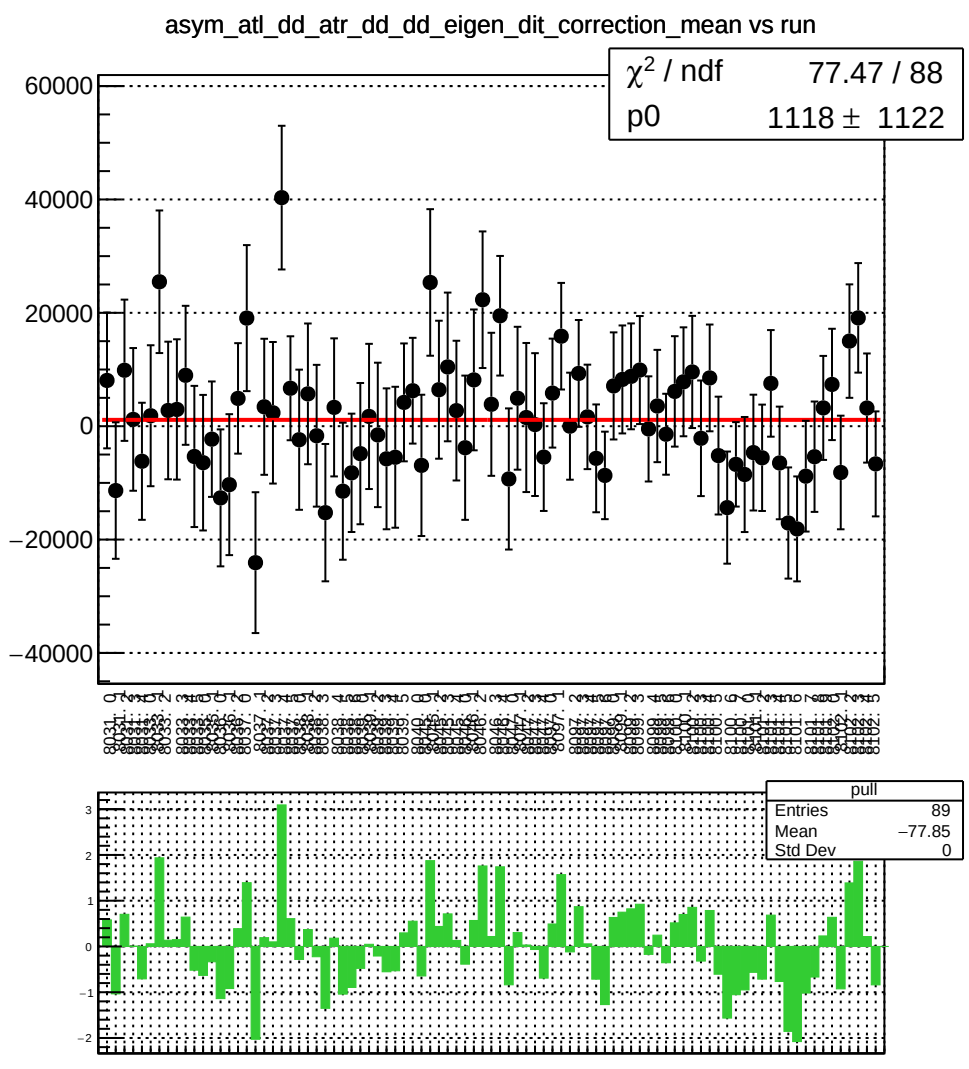

pull1D
Entries 89
Mean 0.01553
Std Dev 0.9329
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

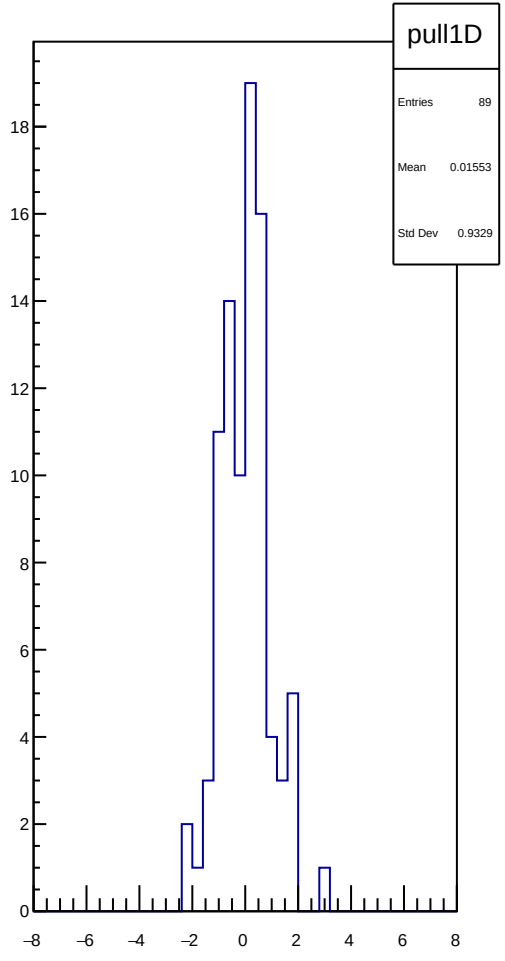

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 2.992e+04 / 88
p0 1040 ± 0.7934
1300
1250
1200
1150
1100
1050
1000
950
900
850

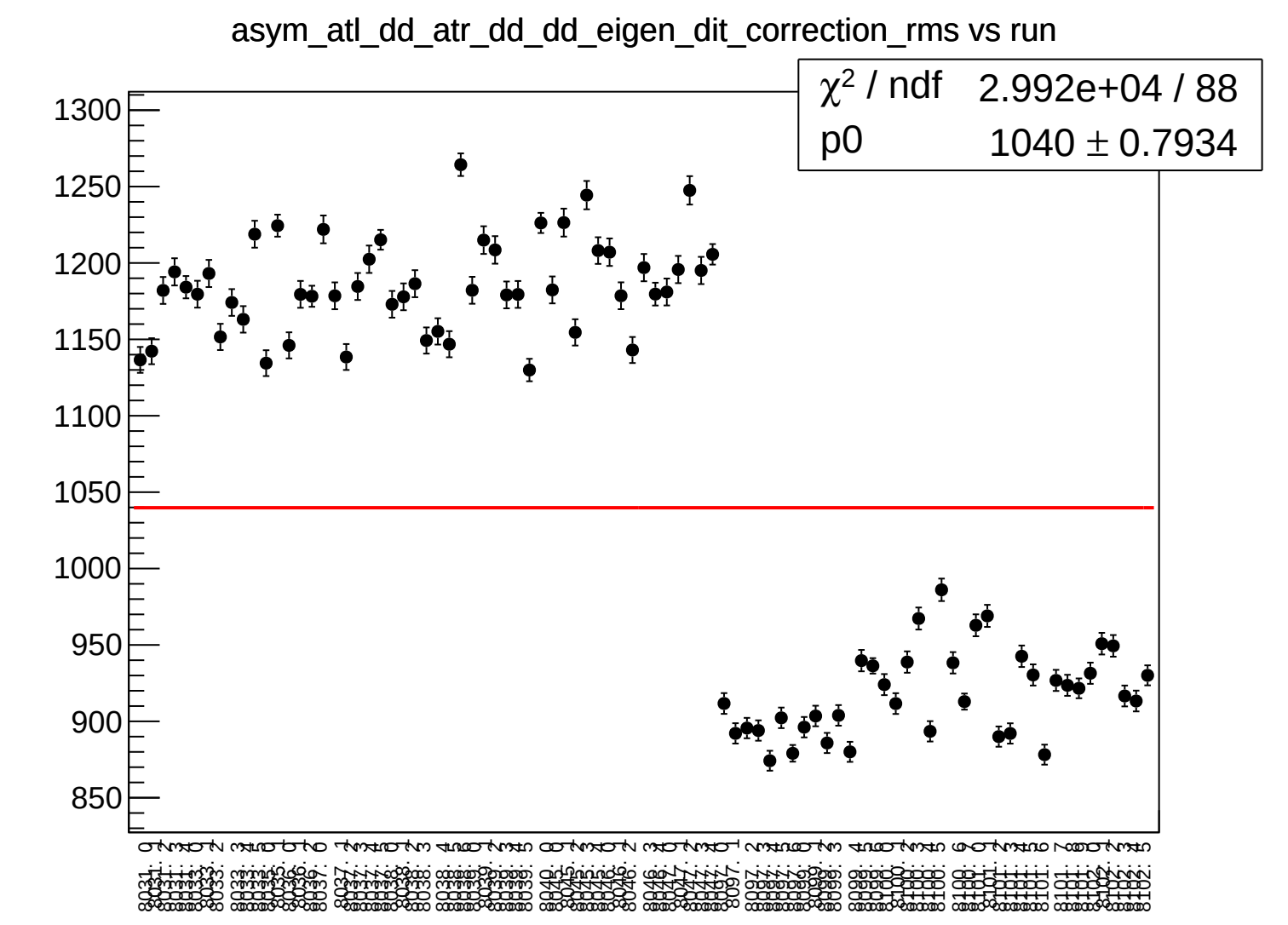

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 99.95 / 88
p0 −416 ± 1314
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 8.65
Std Dev 0
2
1
0
−1
−2

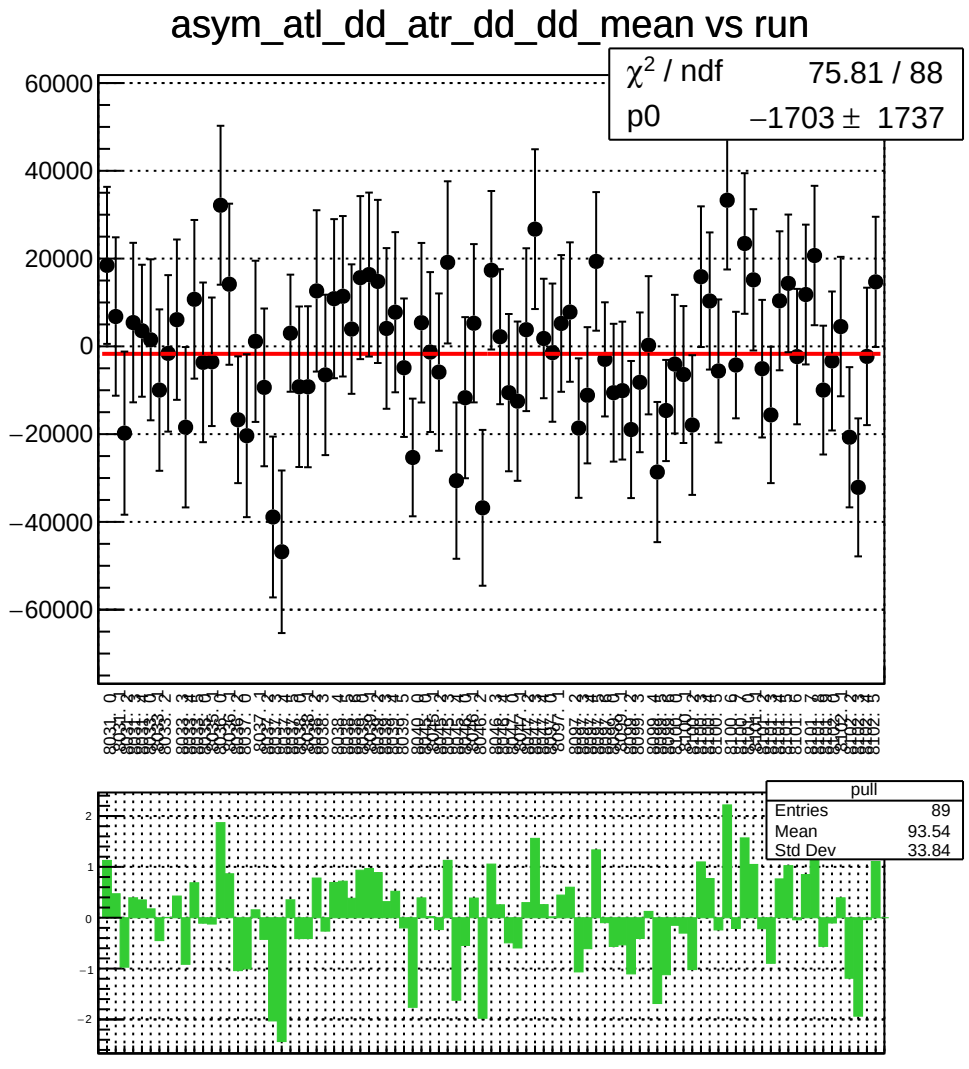

pull1D
Entries 89
Mean 0.02281
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

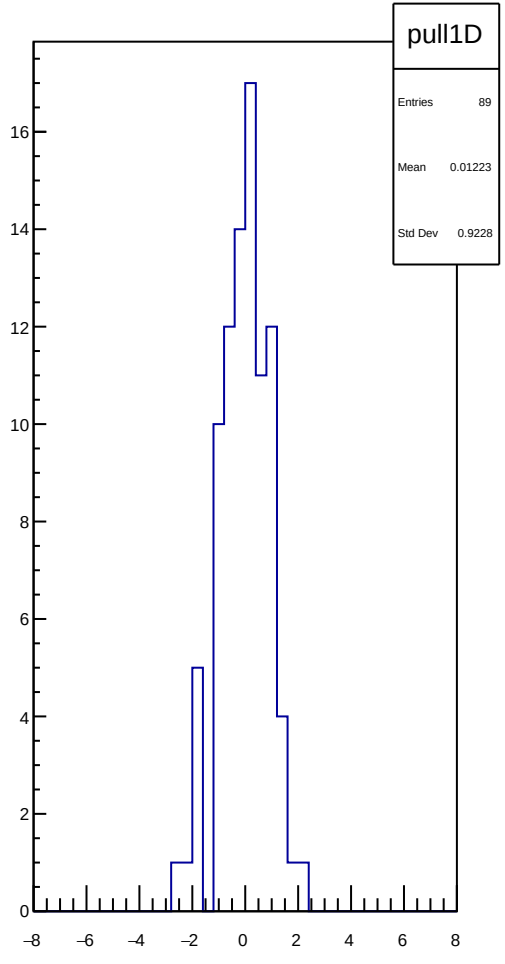

eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 3043 / 88
p0 1227 ± 0.9289
1320
1300
1280
1260
1240
1220
1200
1180
1160
1140

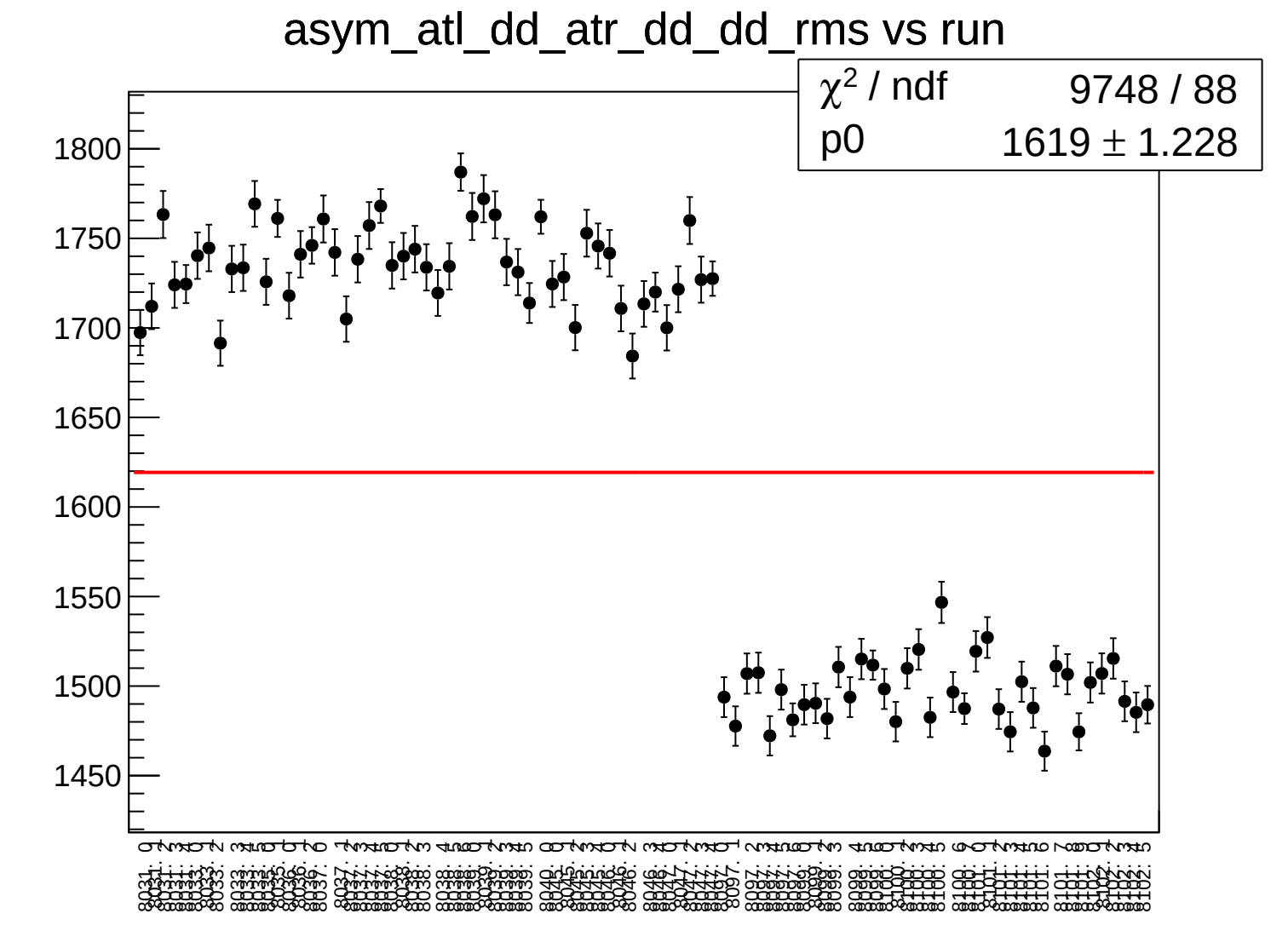

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 77.47 / 88
p0 1118 ± 1122
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −77.85
Std Dev 0
3
2
1
0
−1
−2

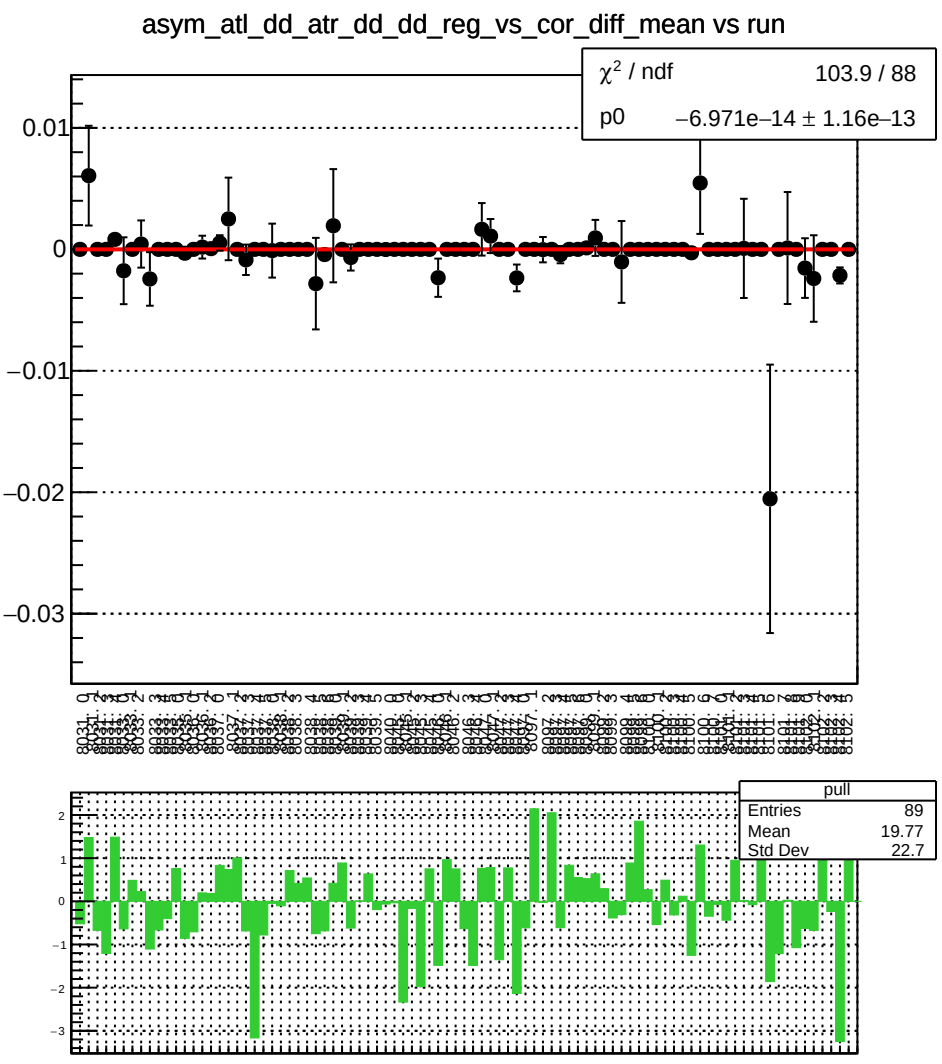

pull1D
Entries 89
Mean 0.01553
Std Dev 0.9329
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

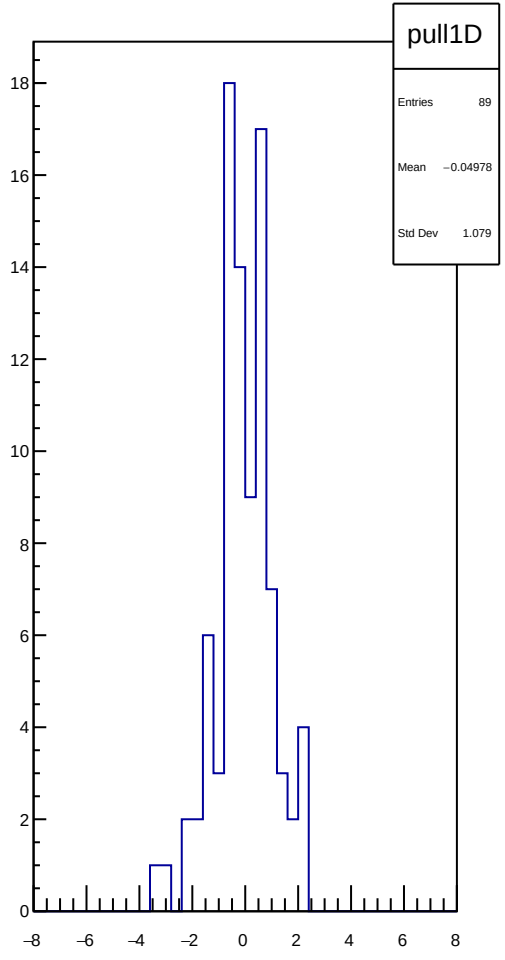

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.992e+04 / 88
p0 1040 ± 0.7934
1300
1250
1200
1150
1100
1050
1000
950
900
850

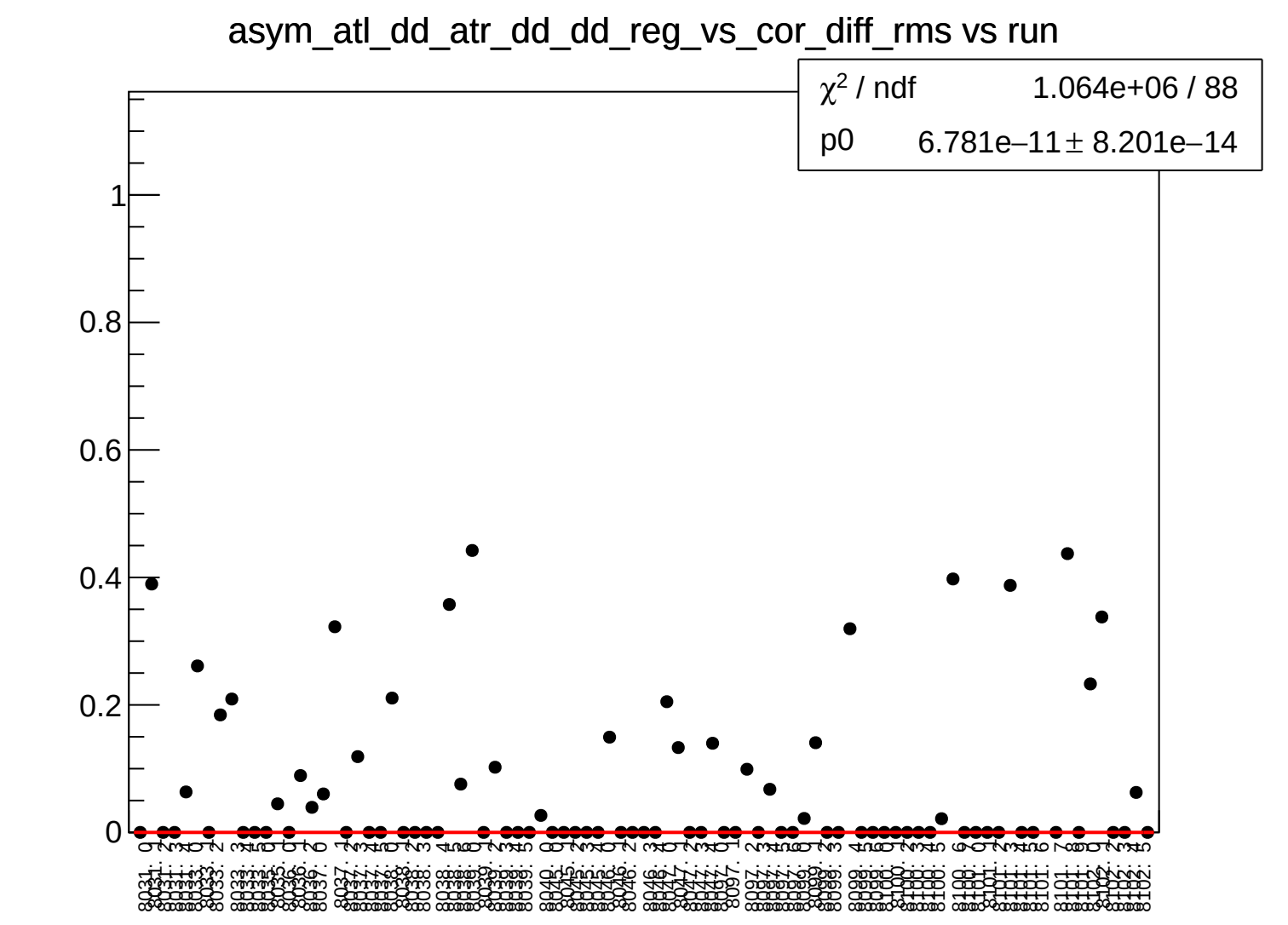

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 75.81 / 88
p0 −1703 ± 1737
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 93.54
Std Dev 33.84
2
1
0
−1
−2

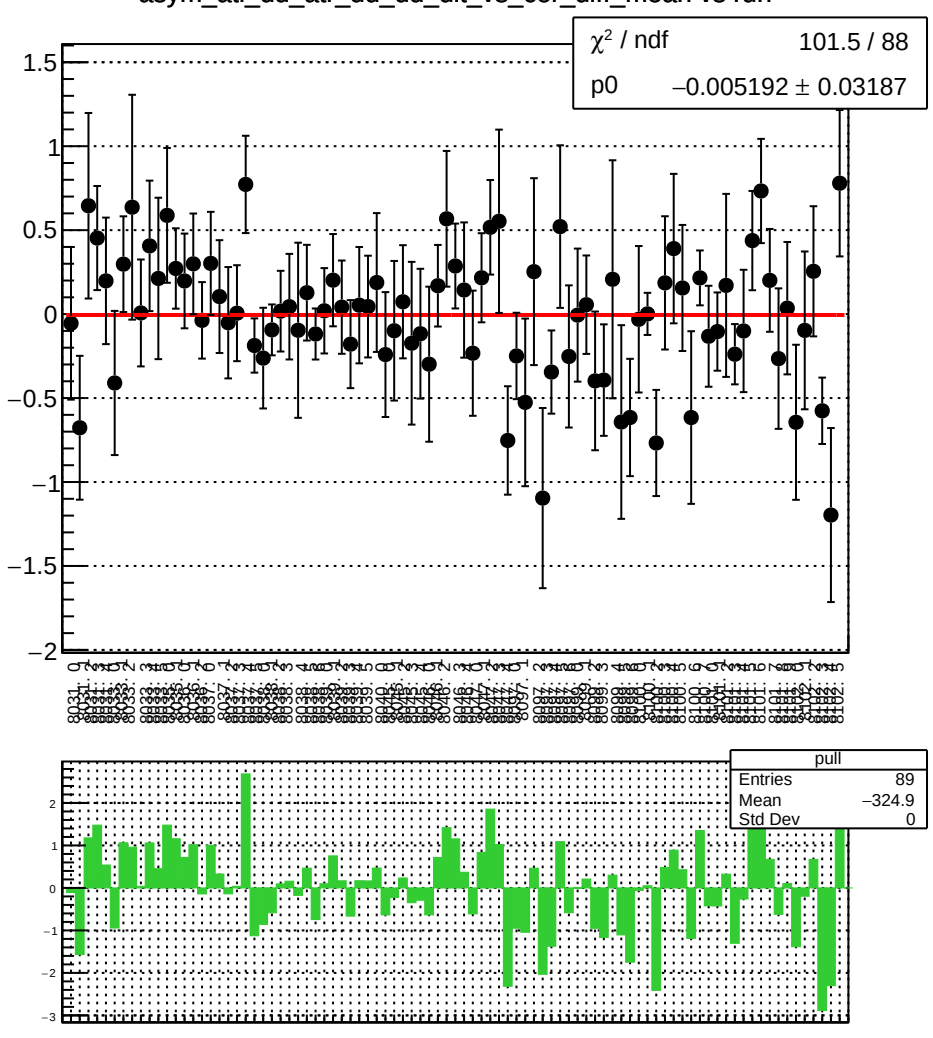

pull1D
Entries 89
Mean 0.01223
Std Dev 0.9228
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

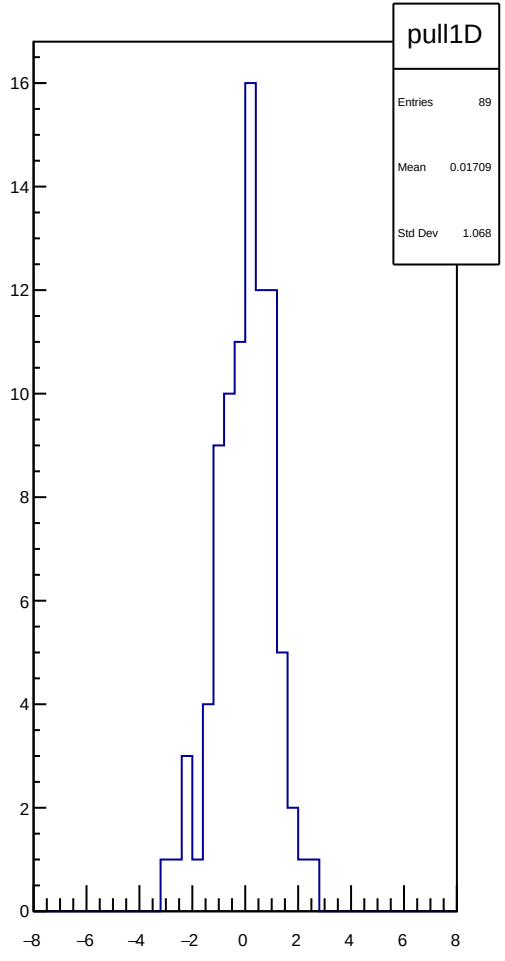

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 9748 / 88
p0 1619 ± 1.228
1800
1750
1700
1650
1600
1550
1500
1450

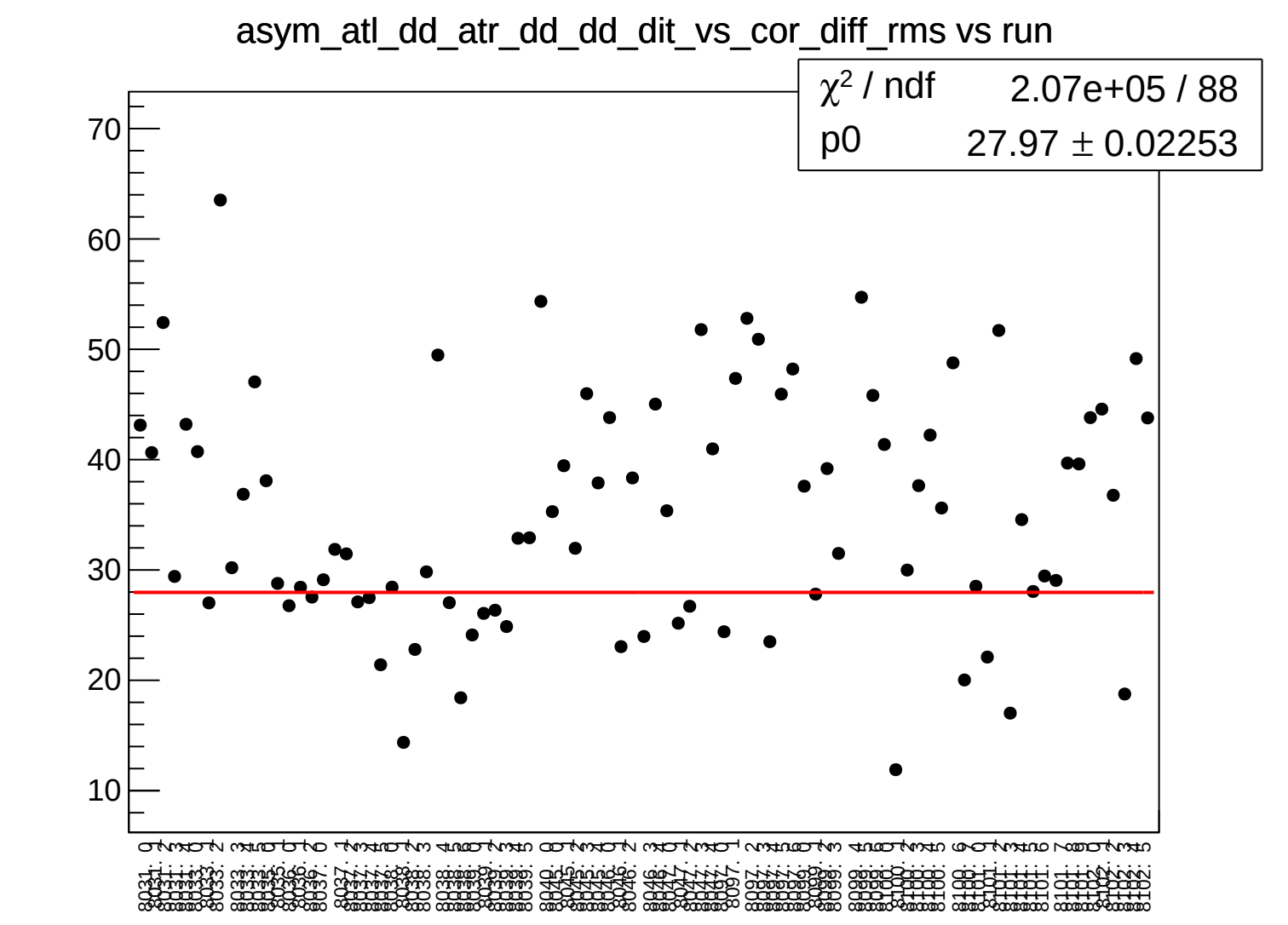

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 103.9 / 88
p0 −6.971e−14 ± 1.16e−13
0.01
0
−0.01
−0.02
−0.03
pull
Entries 89
Mean 19.77
Std Dev 22.7
2
1
0
−1
−2
−3

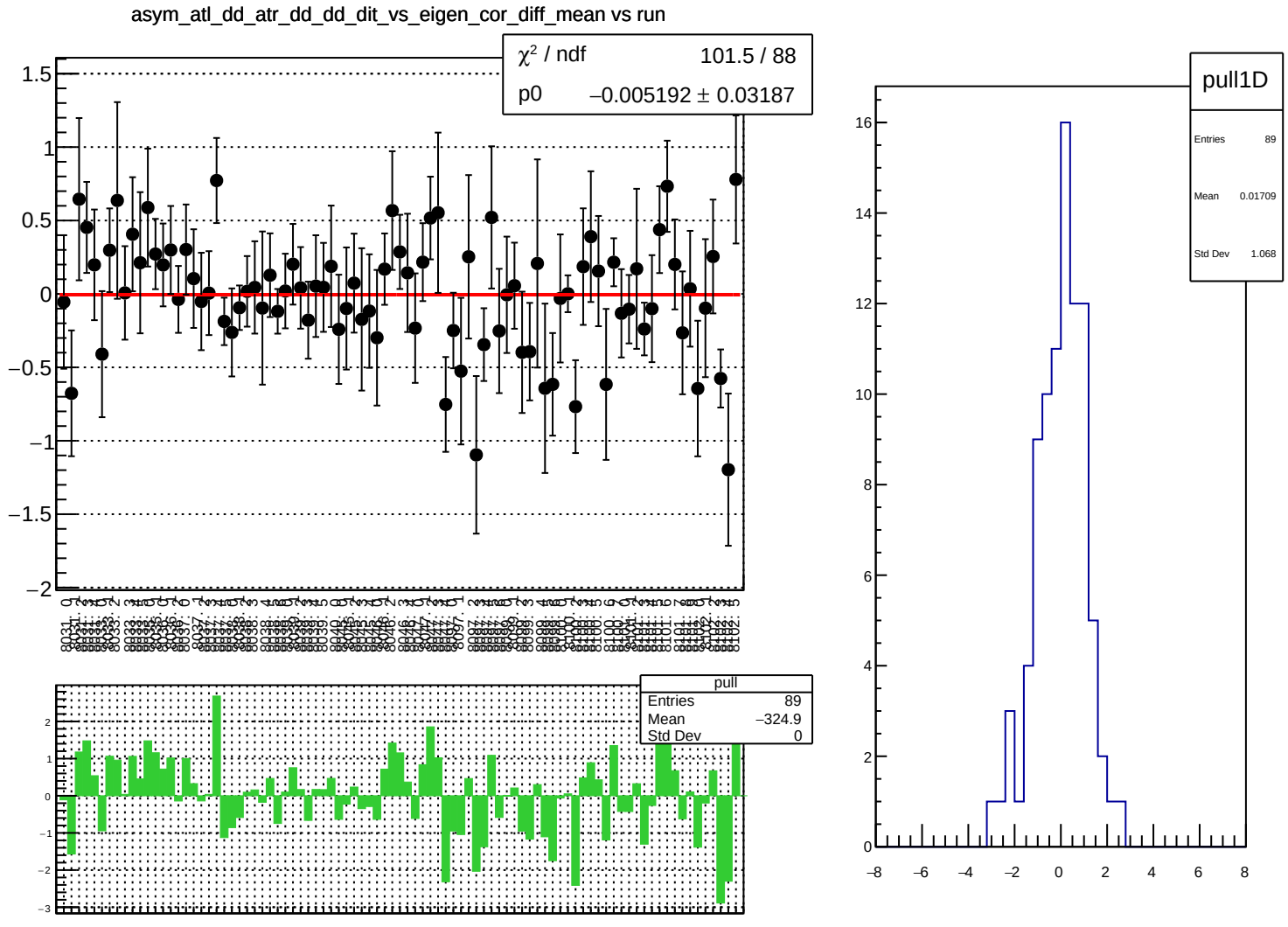

pull1D
Entries 89
Mean −0.04978
Std Dev 1.079
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

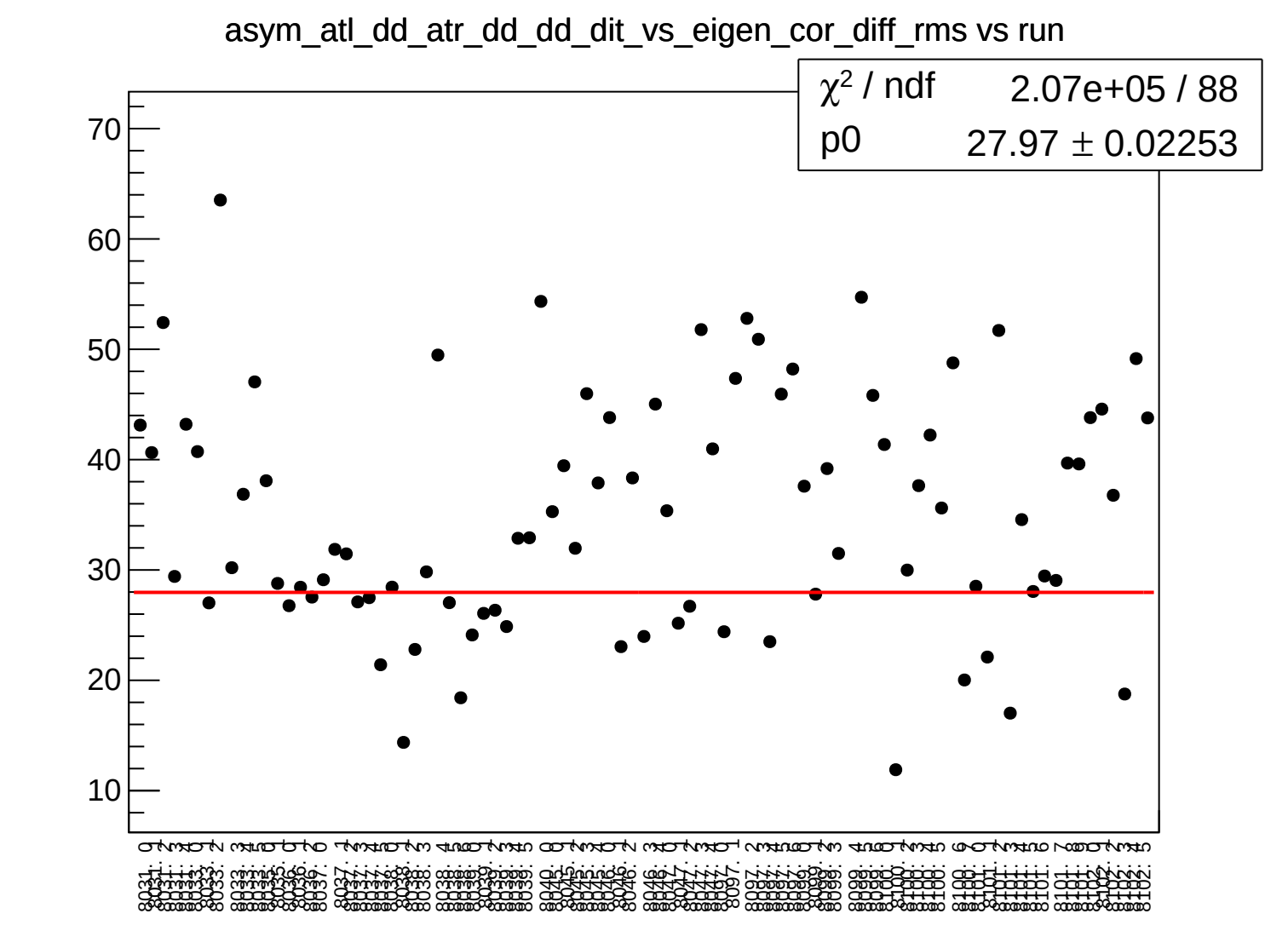

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.064e+06 / 88
p0 6.781e−11 ± 8.201e−14
1
0.8
0.6
0.4
0.2
0

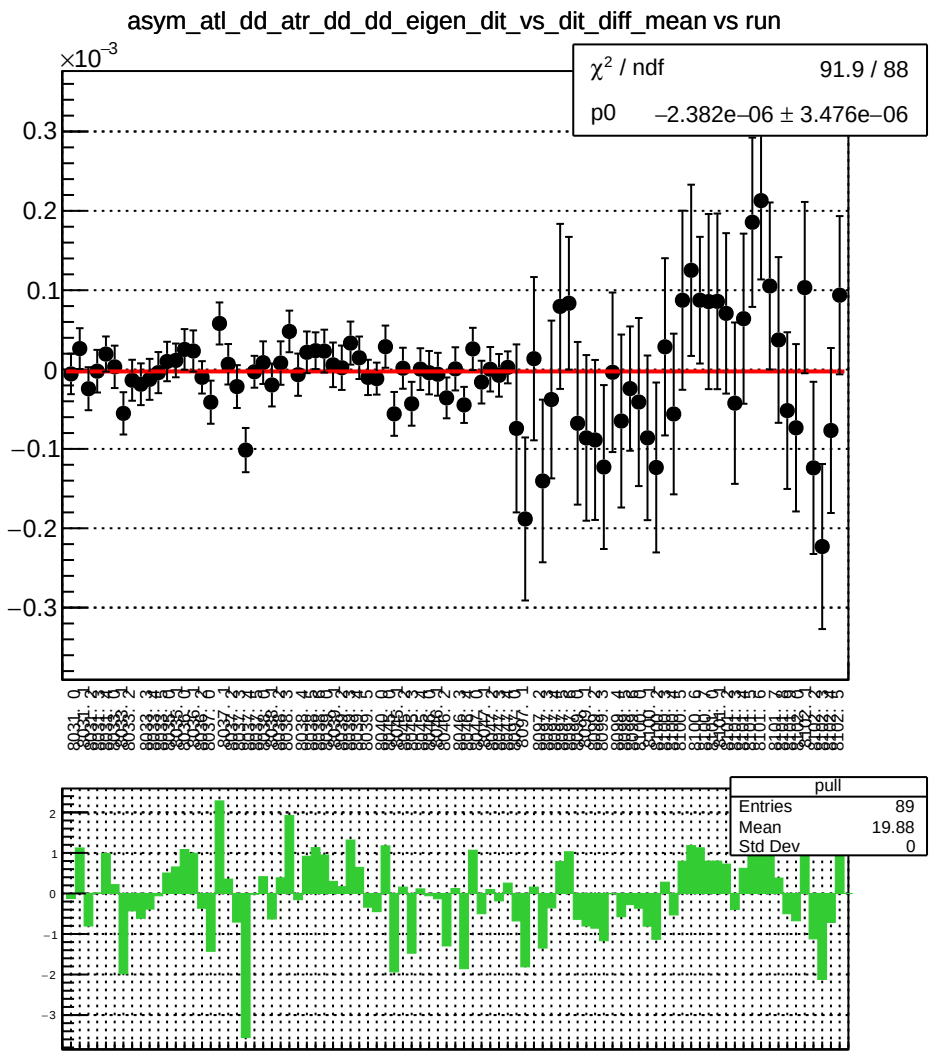

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 101.5 / 88
p0 −0.005192 ± 0.03187
pull
Entries 89
Mean −324.9
Std Dev 0

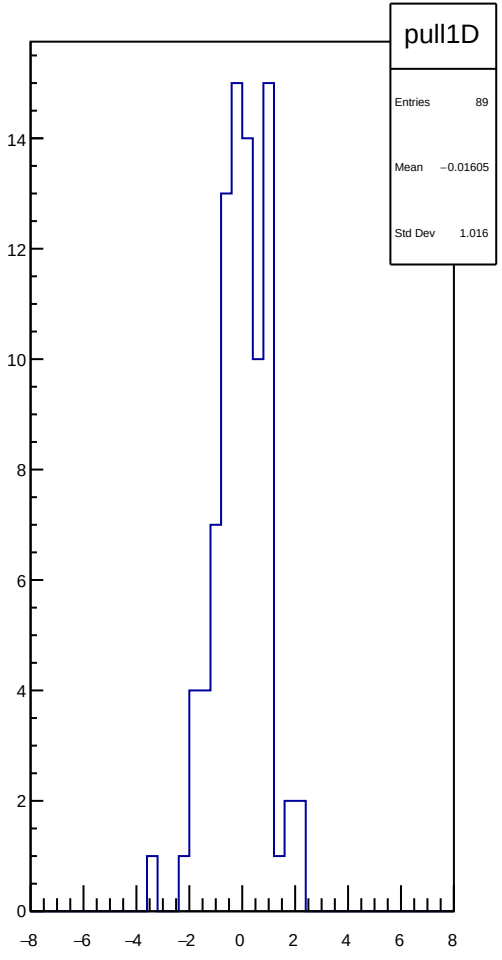

pull1D
Entries 89
Mean 0.01709
Std Dev 1.068

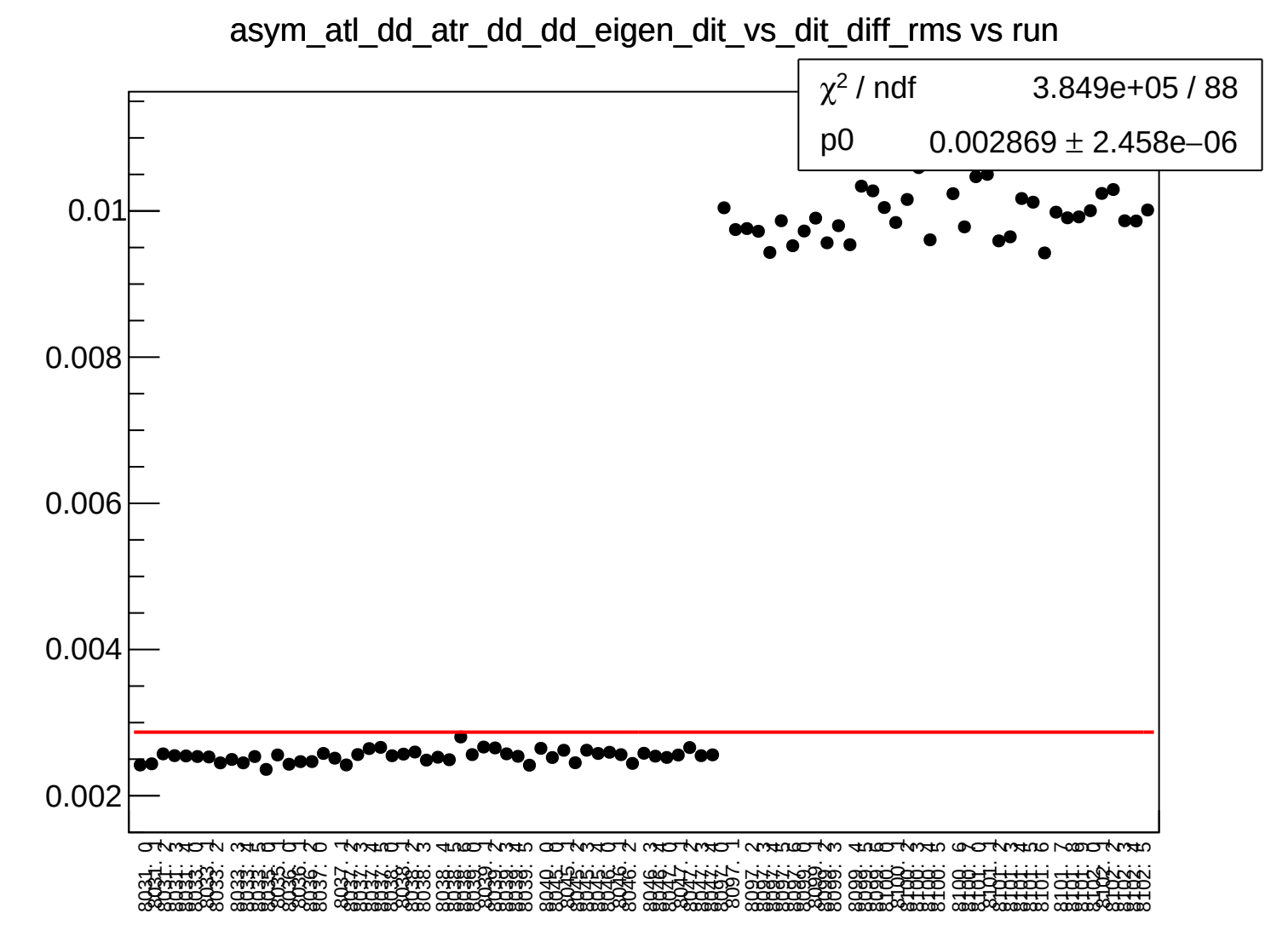

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.07e+05 / 88
p0 27.97 ± 0.02253
70
60
50
40
30
20
10

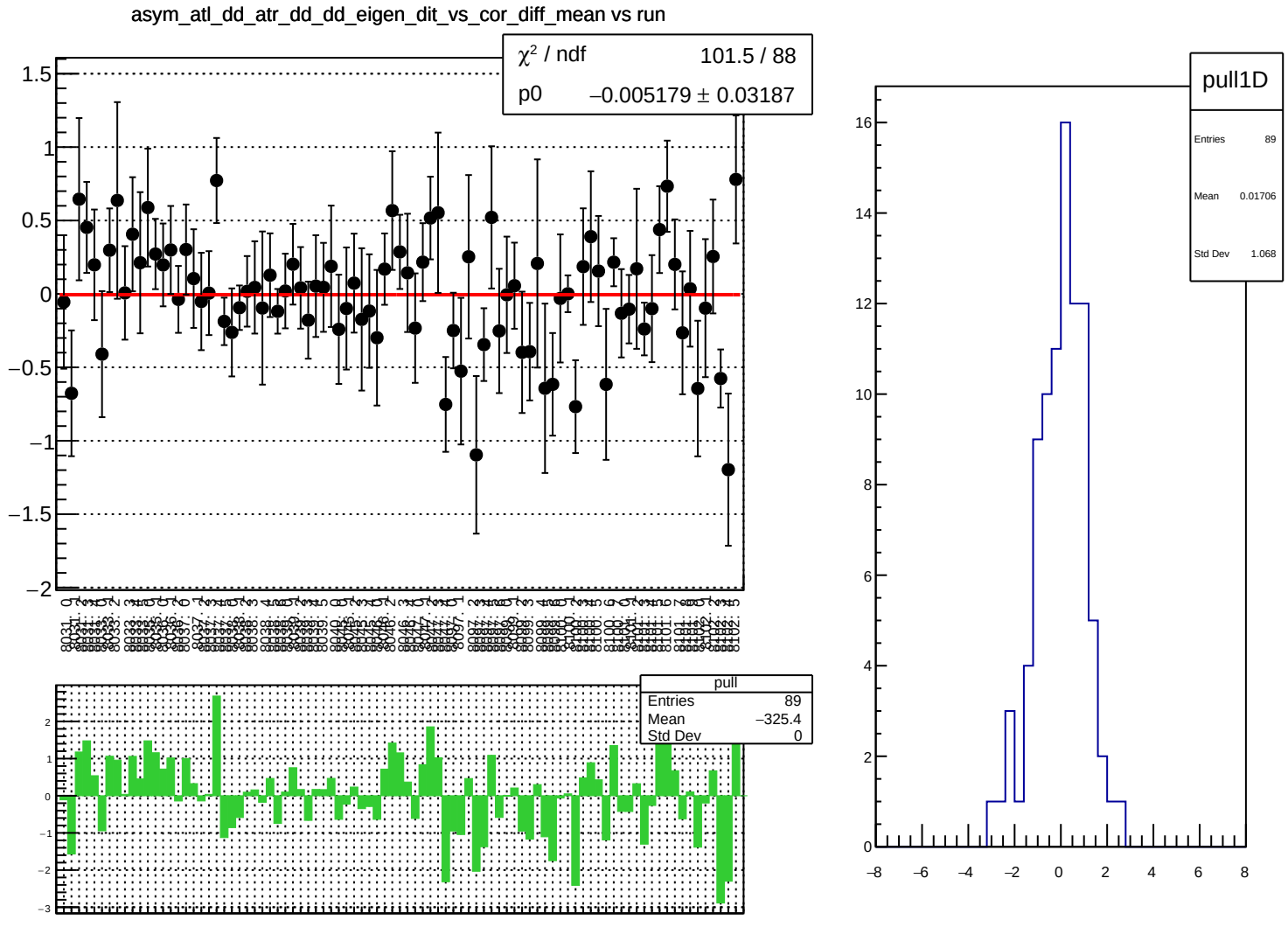

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.5 / 88
p0 −0.005192 ± 0.03187
pull
Entries 89
Mean −324.9
Std Dev 0
pull1D
Entries 89
Mean 0.01709
Std Dev 1.068

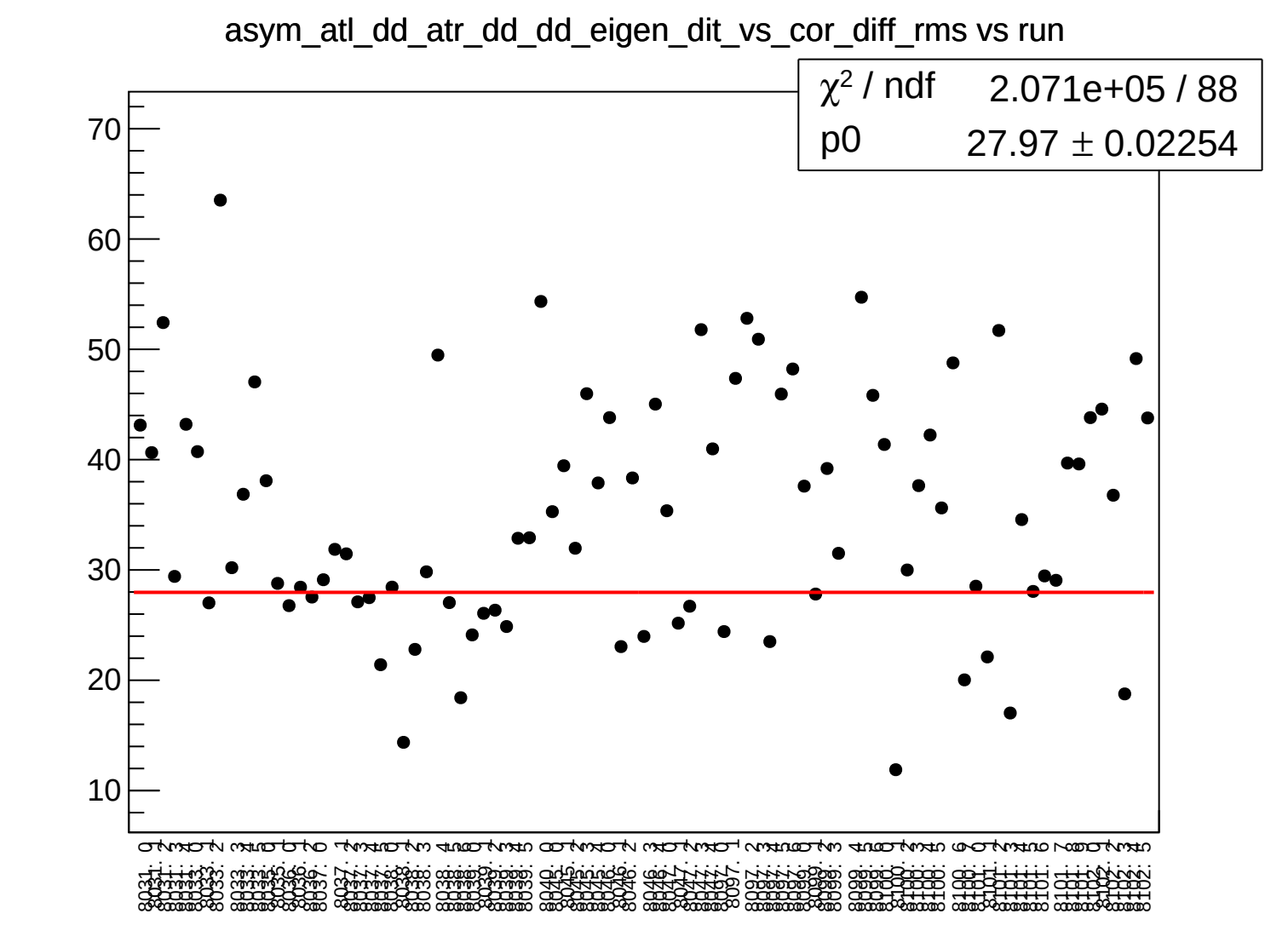

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.07e+05 / 88
p0 27.97 ± 0.02253
70
60
50
40
30
20
10

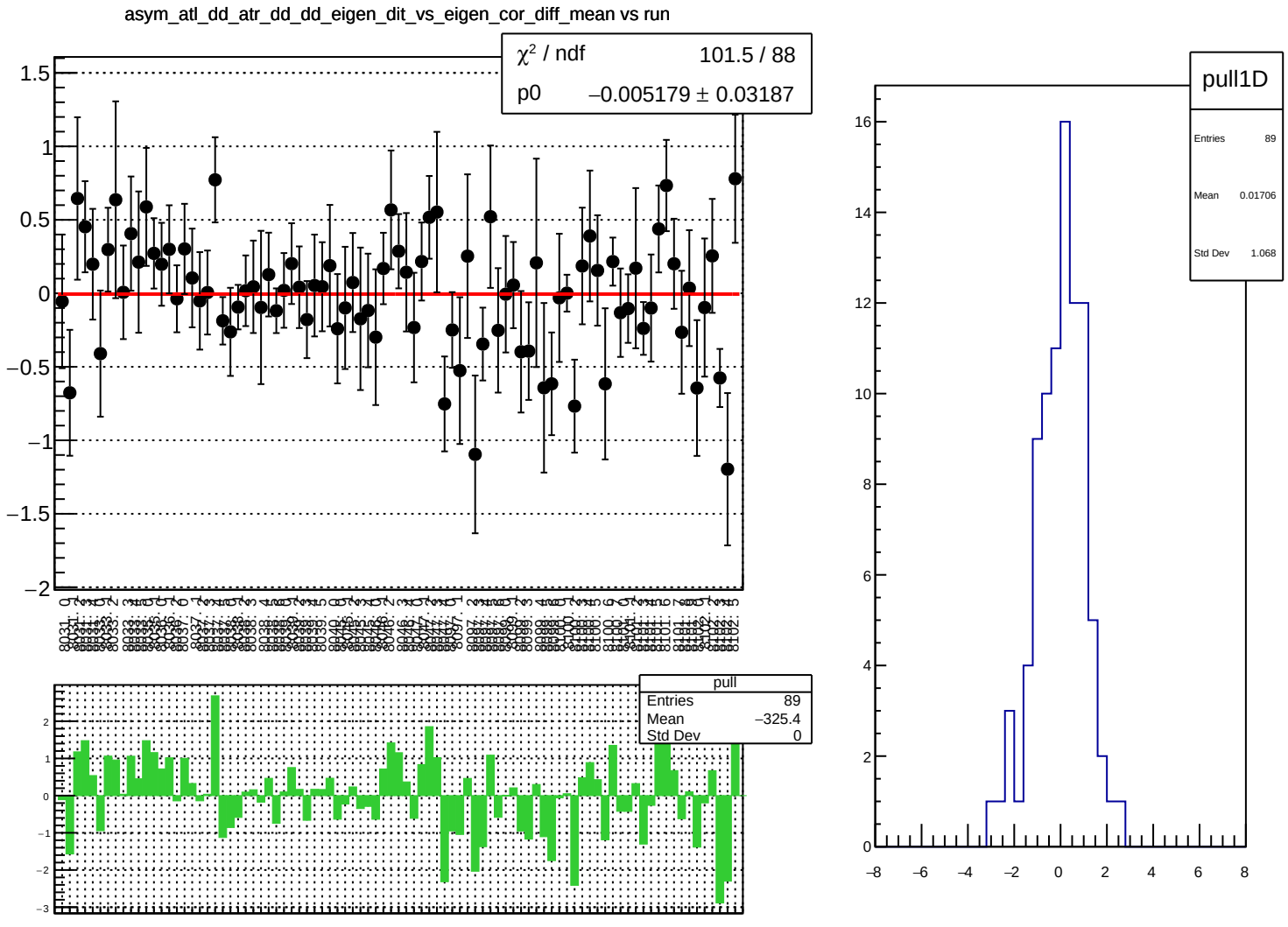

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.9 / 88
p0 −2.382e−06 ± 3.476e−06
pull
Entries 89
Mean 19.88
Std Dev 0

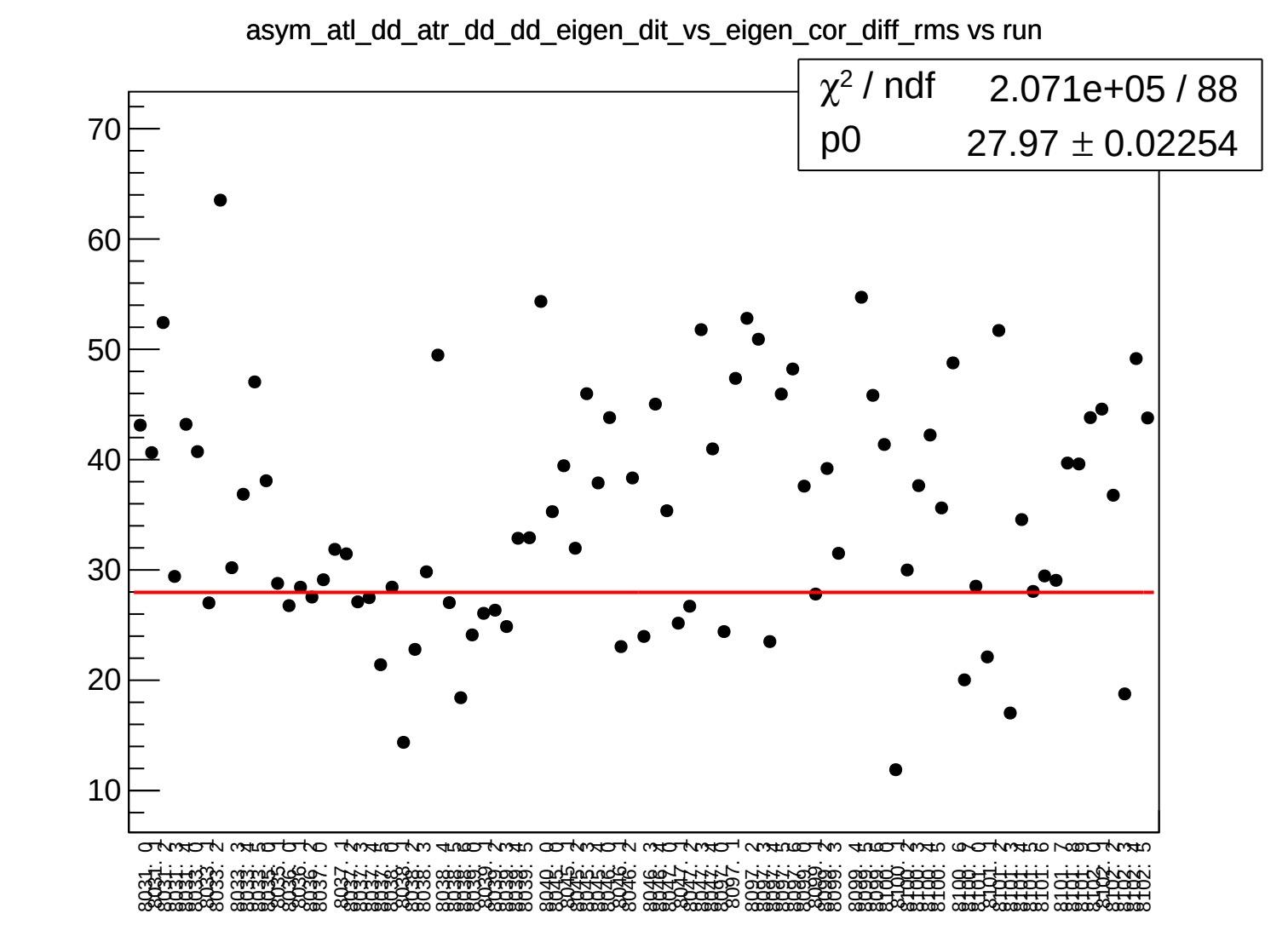

pull1D
Entries 89
Mean −0.01605
Std Dev 1.016

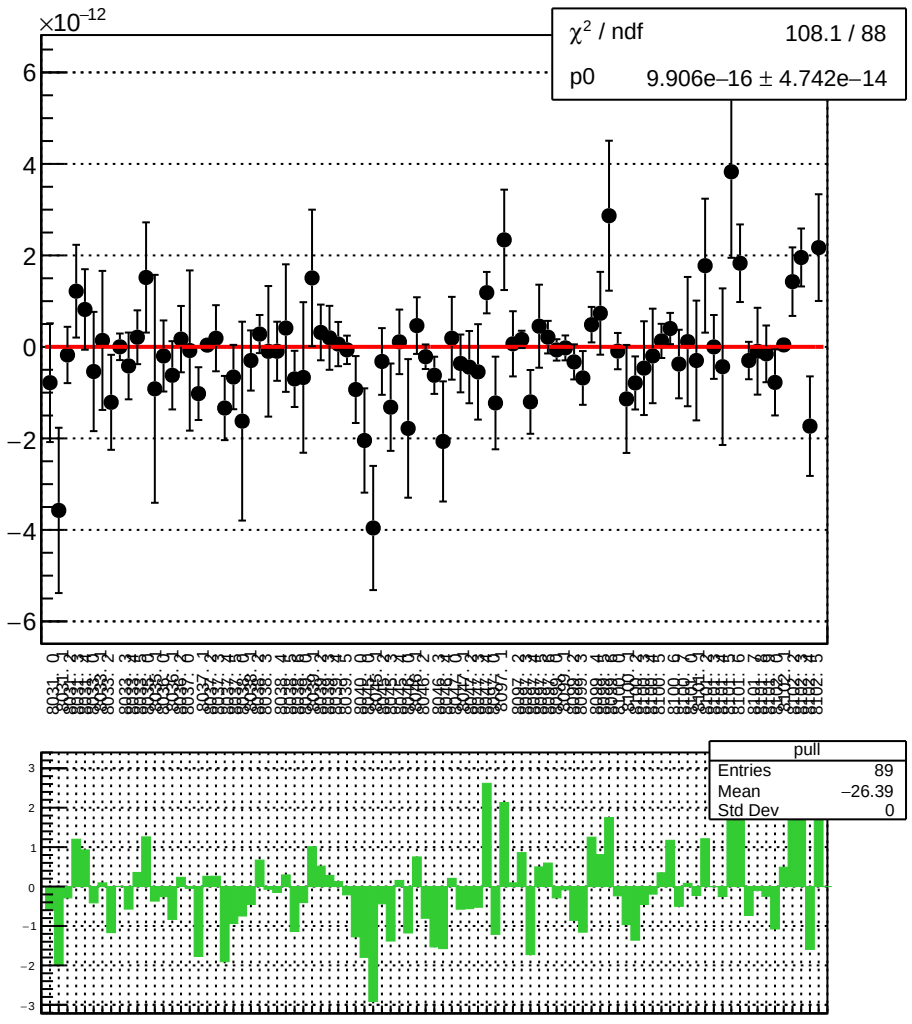

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.849e+05 / 88
p0 0.002869 ± 2.458e−06
0.01
0.008
0.006
0.004
0.002

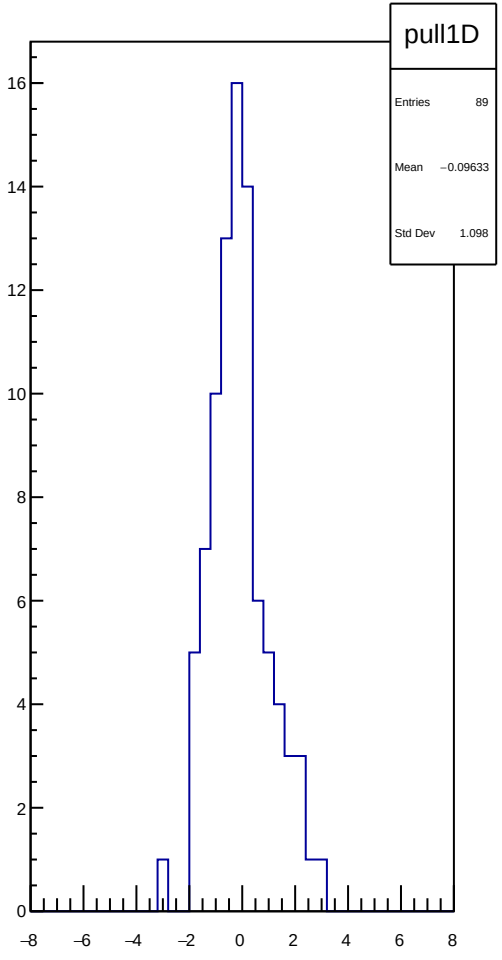

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101.5 / 88
p0 −0.005179 ± 0.03187
pull
Entries 89
Mean −325.4
Std Dev 0
pull1D
Entries 89
Mean 0.01706
Std Dev 1.068

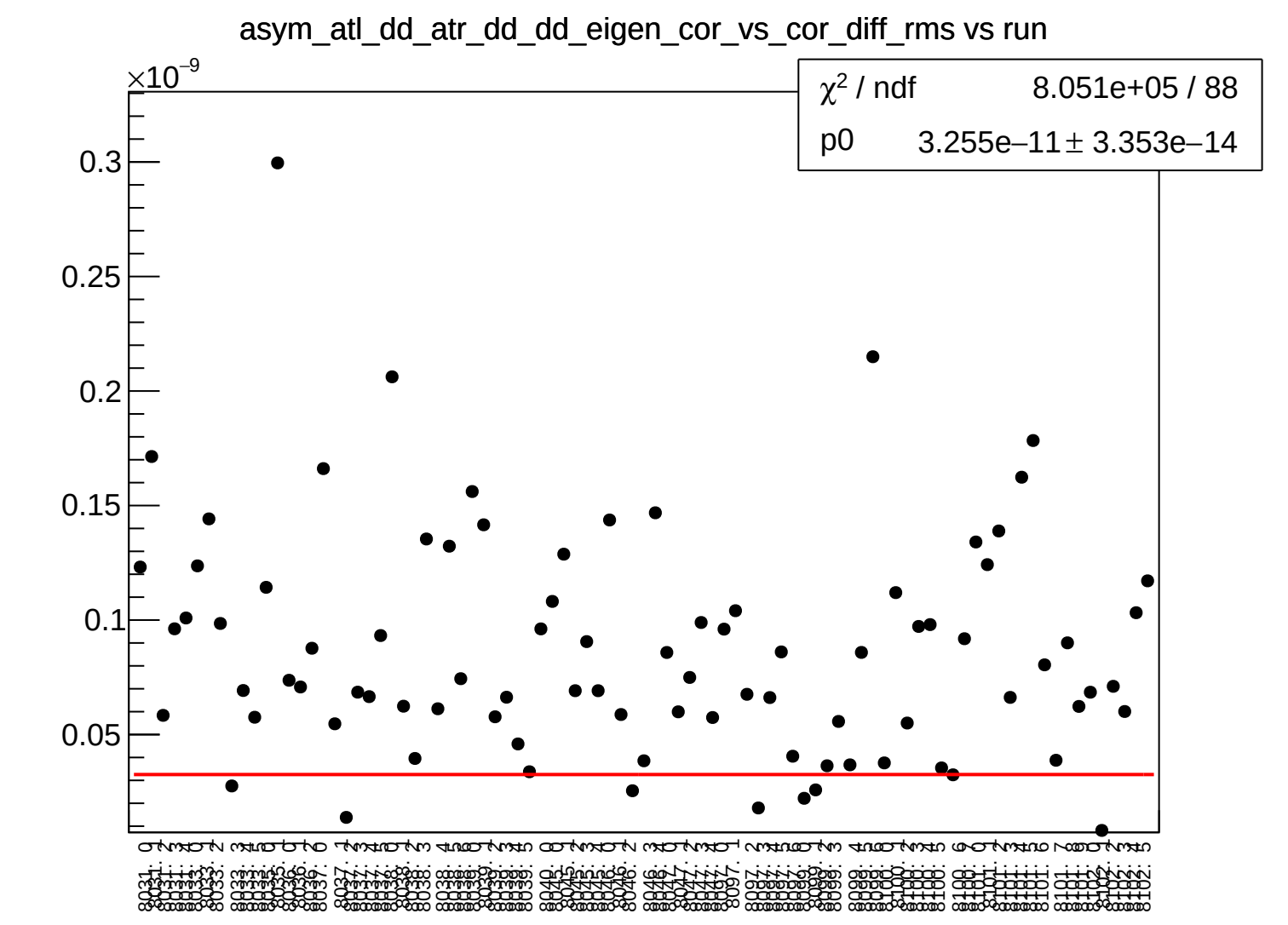

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.071e+05 / 88
p0 27.97 ± 0.02254
70
60
50
40
30
20
10

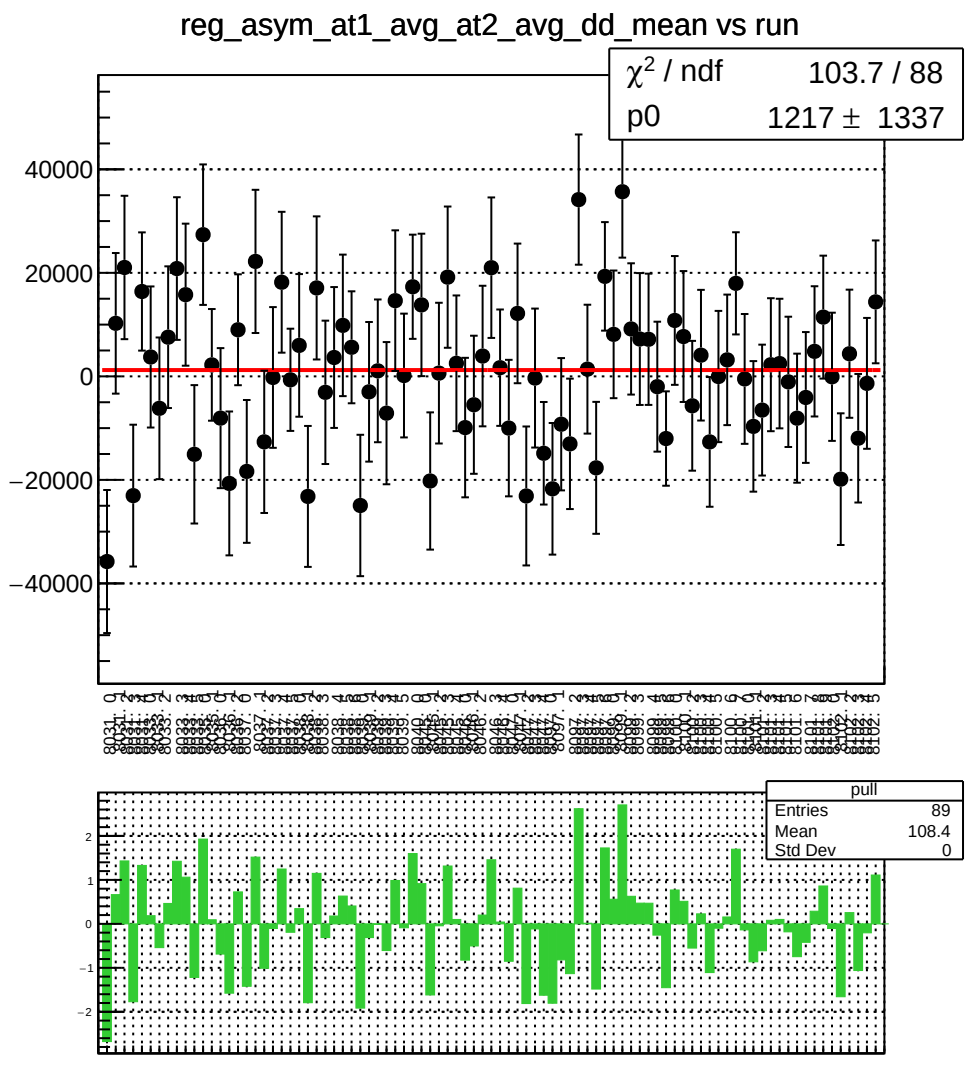

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.5 / 88
p0 −0.005179 ± 0.03187
pull
Entries 89
Mean −325.4
Std Dev 0
pull1D
Entries 89
Mean 0.01706
Std Dev 1.068

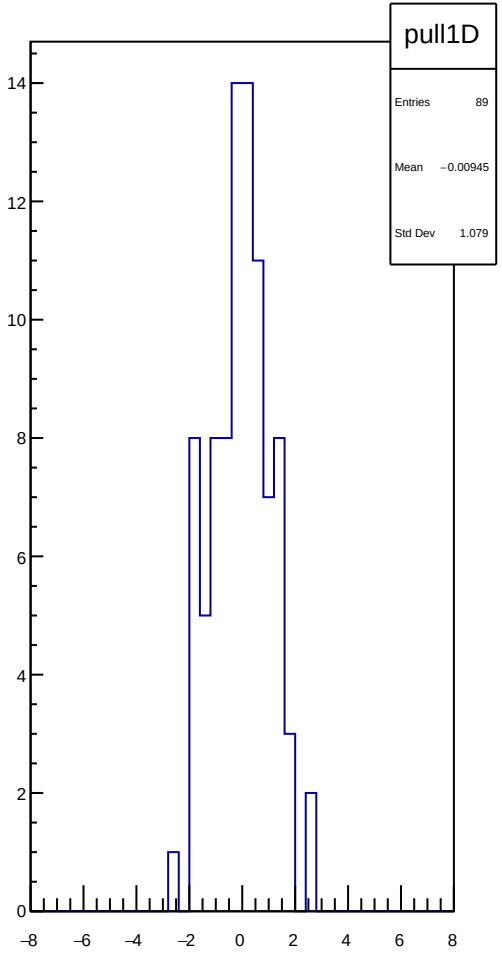

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.071e+05 / 88
p0 27.97 ± 0.02254
70
60
50
40
30
20
10

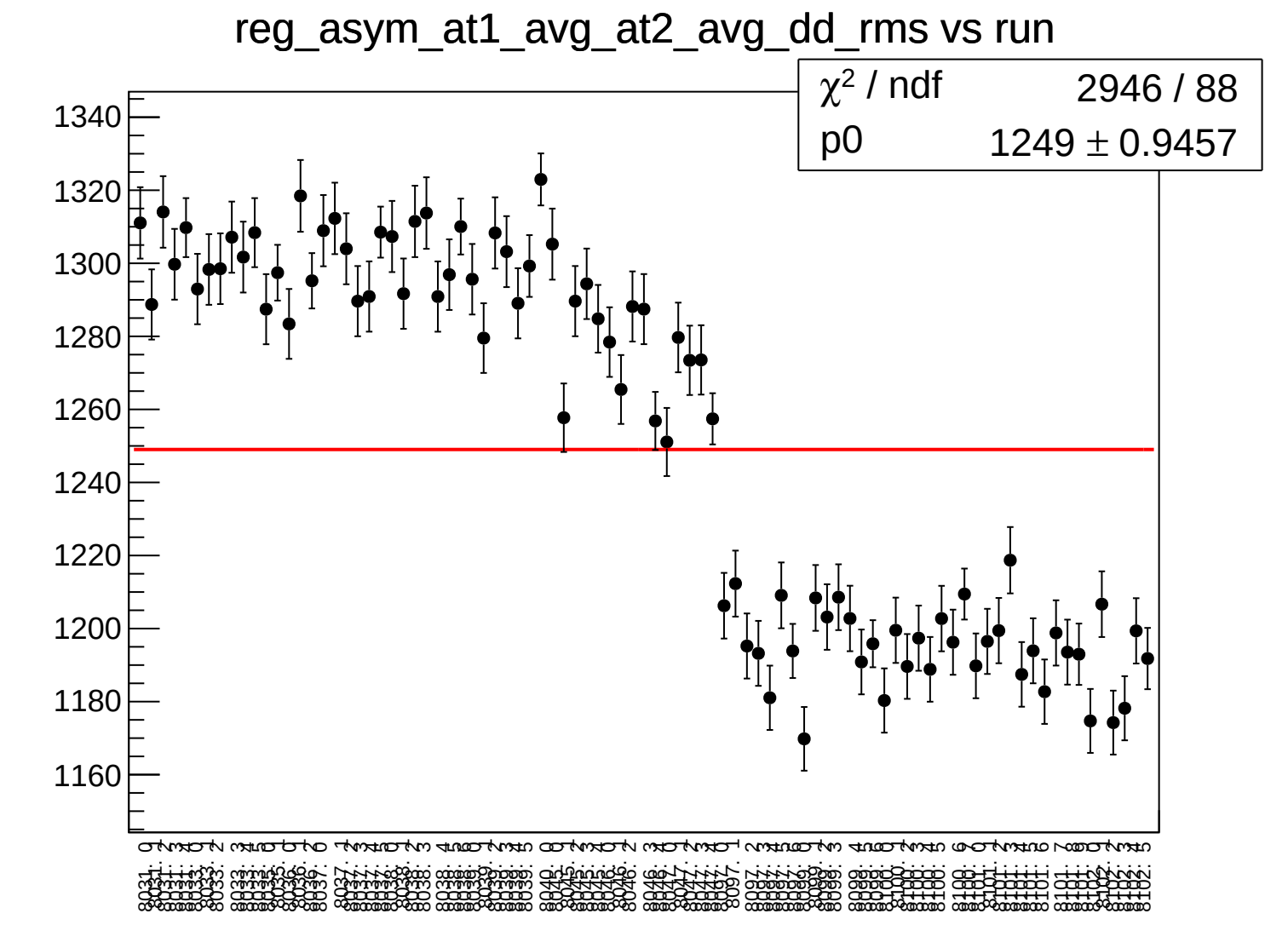

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 108.1 / 88
p0 9.906e−16 ± 4.742e−14
pull
Entries 89
Mean −26.39
Std Dev 0

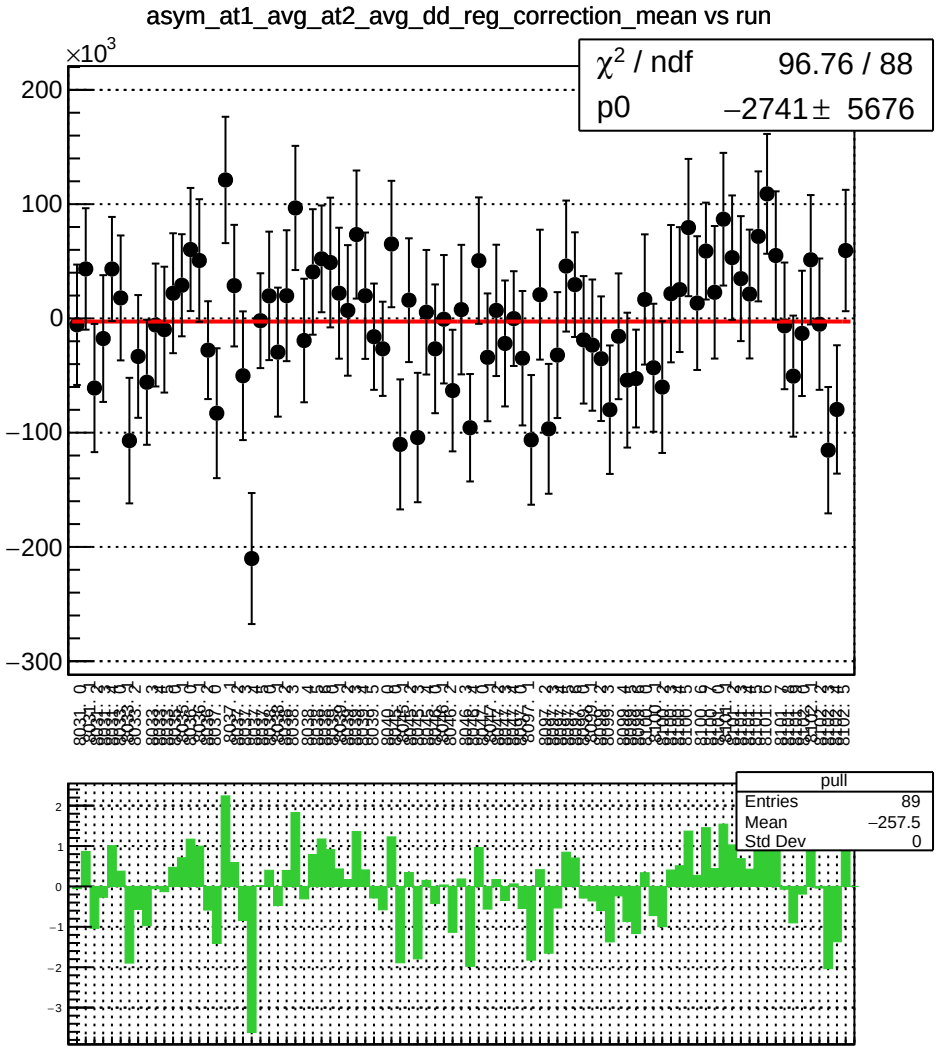

pull1D
Entries 89
Mean −0.09633
Std Dev 1.098

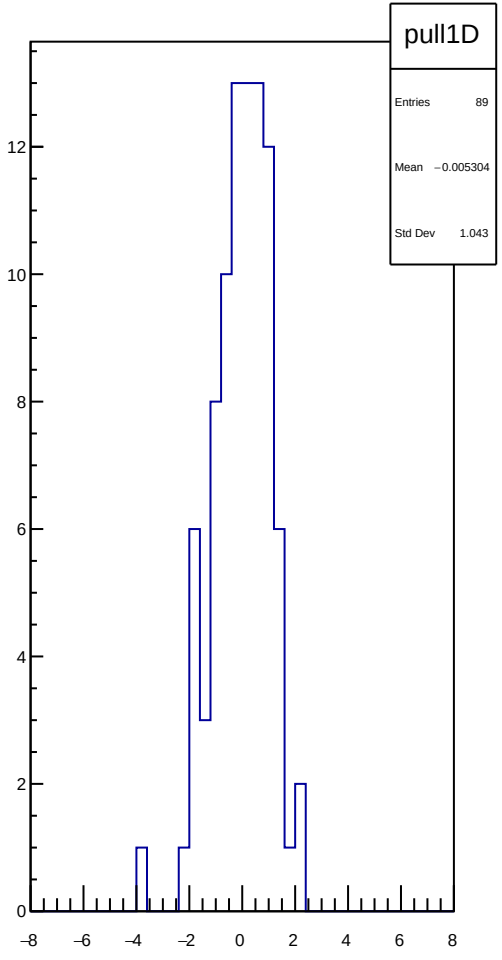

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.051e+05 / 88
p0 3.255e−11 ± 3.353e−14
0.3
0.25
0.2
0.15
0.1
0.05

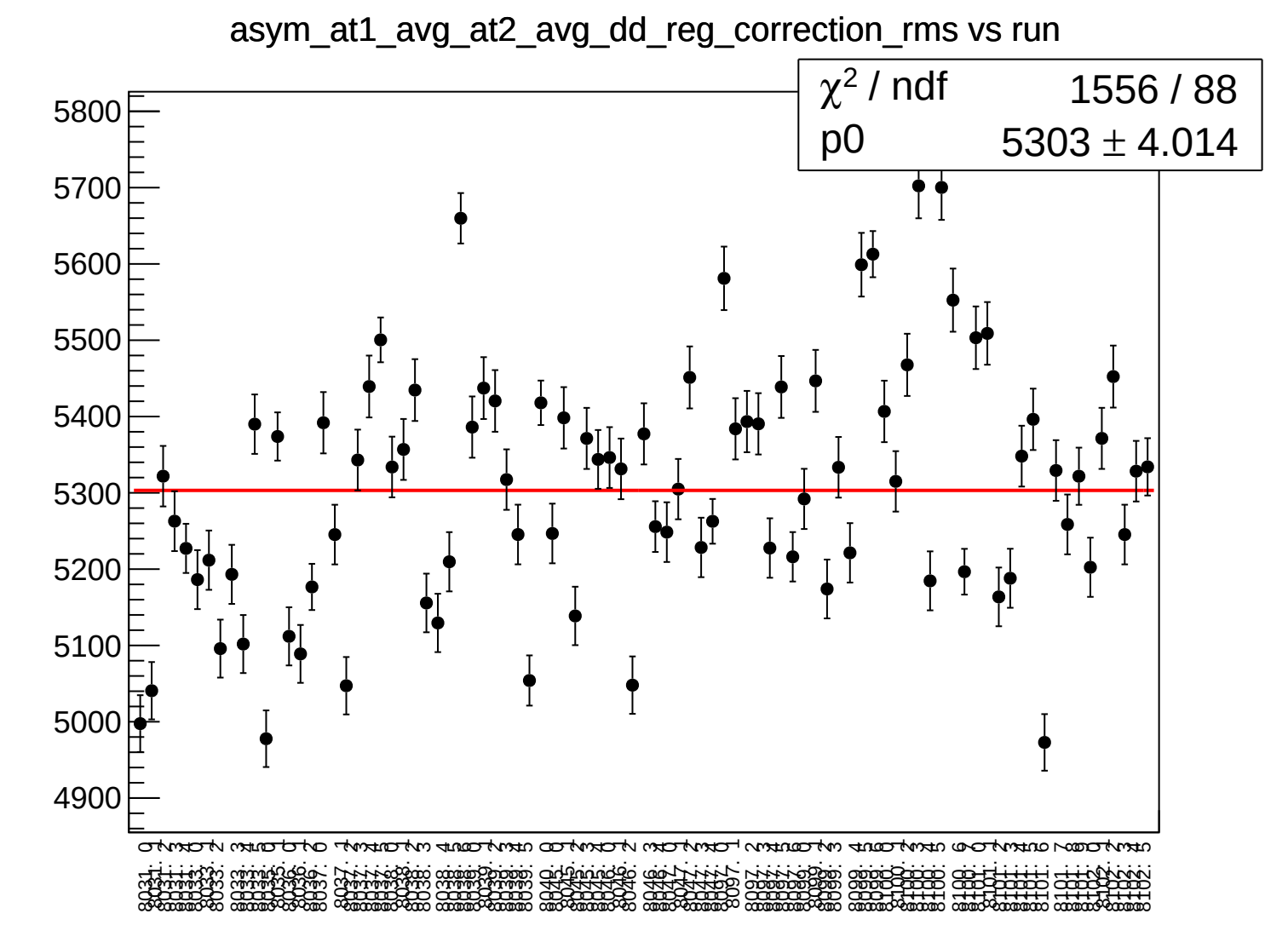

reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 103.7 / 88
p0 1217 ± 1337
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 108.4
Std Dev 0
2
1
0
−1
−2

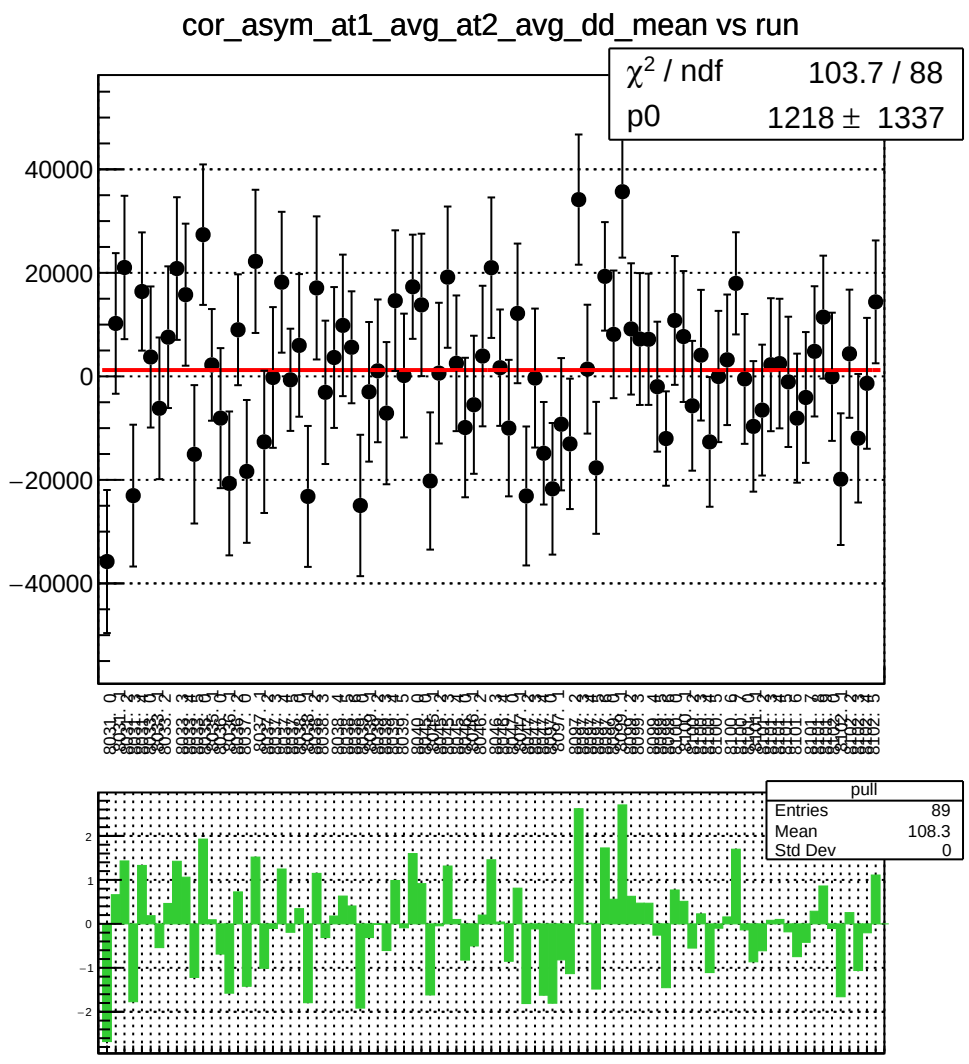

pull1D
Entries 89
Mean −0.00945
Std Dev 1.079
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

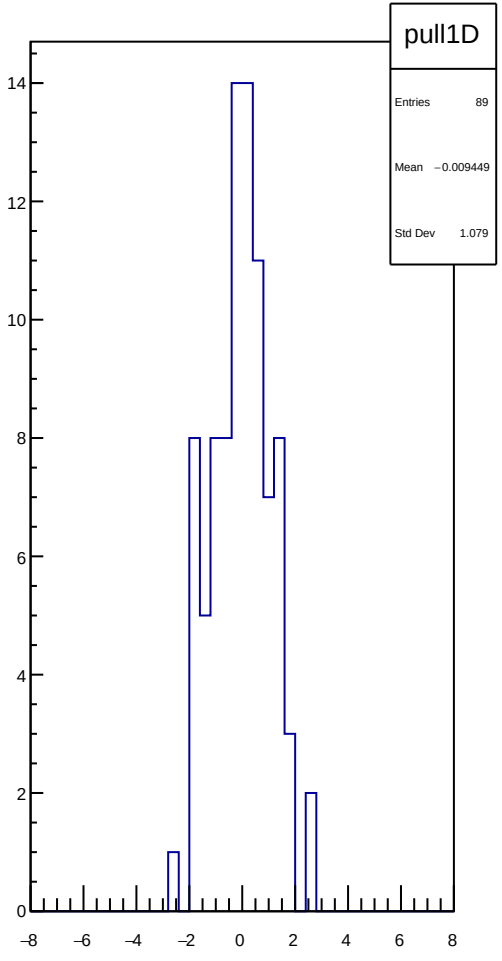

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 2946 / 88
p0 1249 ± 0.9457
1340
1320
1300
1280
1260
1240
1220
1200
1180
1160

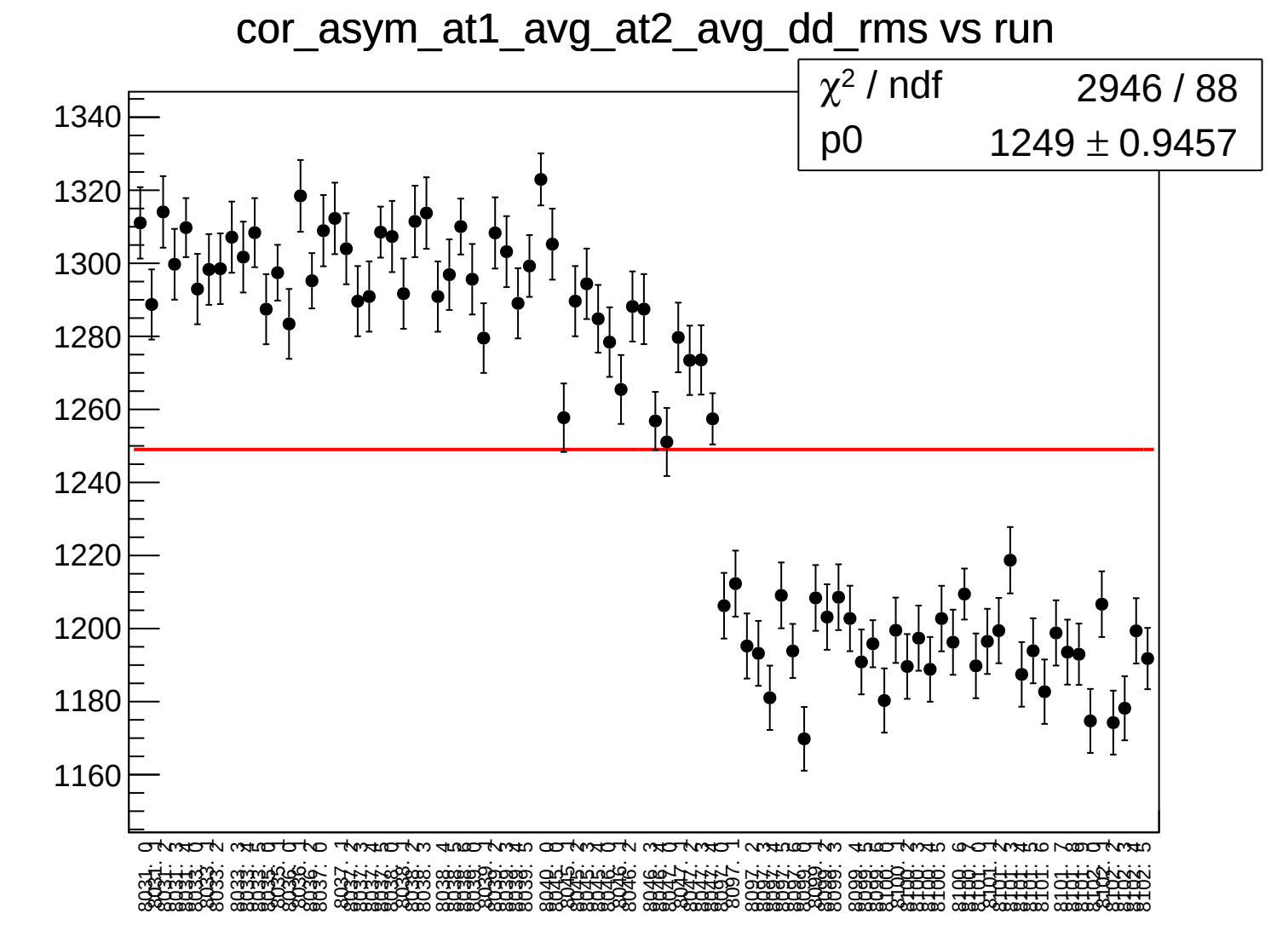

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 96.76 / 88
p0 −2741 ± 5676
200
100
0
−100
−200
−300
pull
Entries 89
Mean −257.5
Std Dev 0
2
1
0
−1
−2
−3

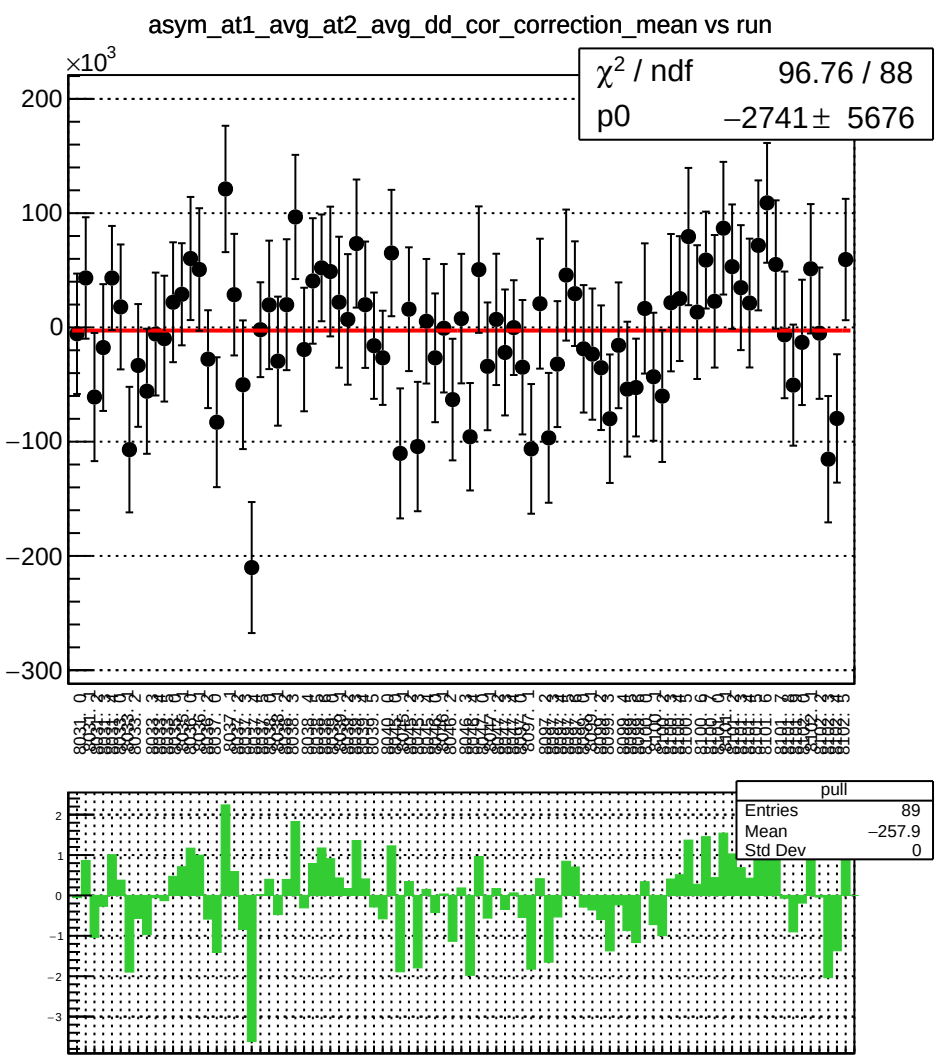

pull1D
Entries 89
Mean −0.005304
Std Dev 1.043
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

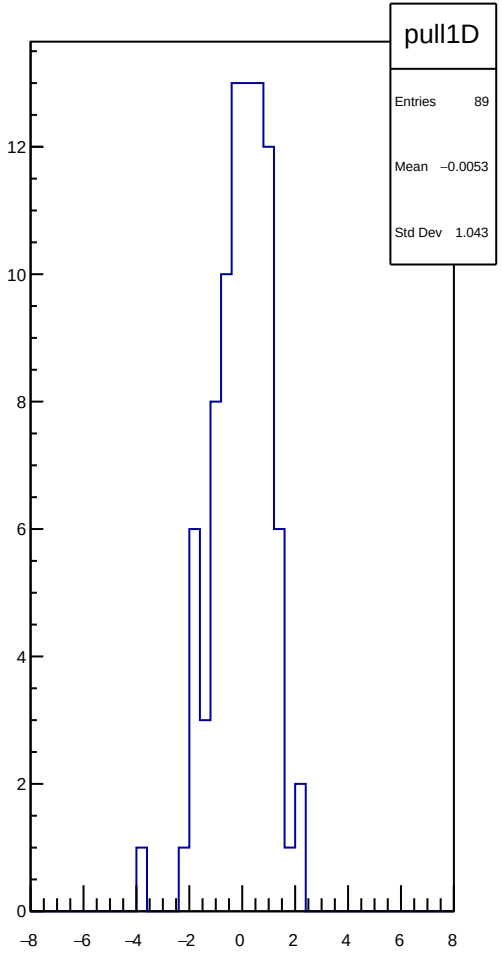

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ² / ndf 1556 / 88
p0 5303 ± 4.014
5800
5700
5600
5500
5400
5300
5200
5100
5000
4900

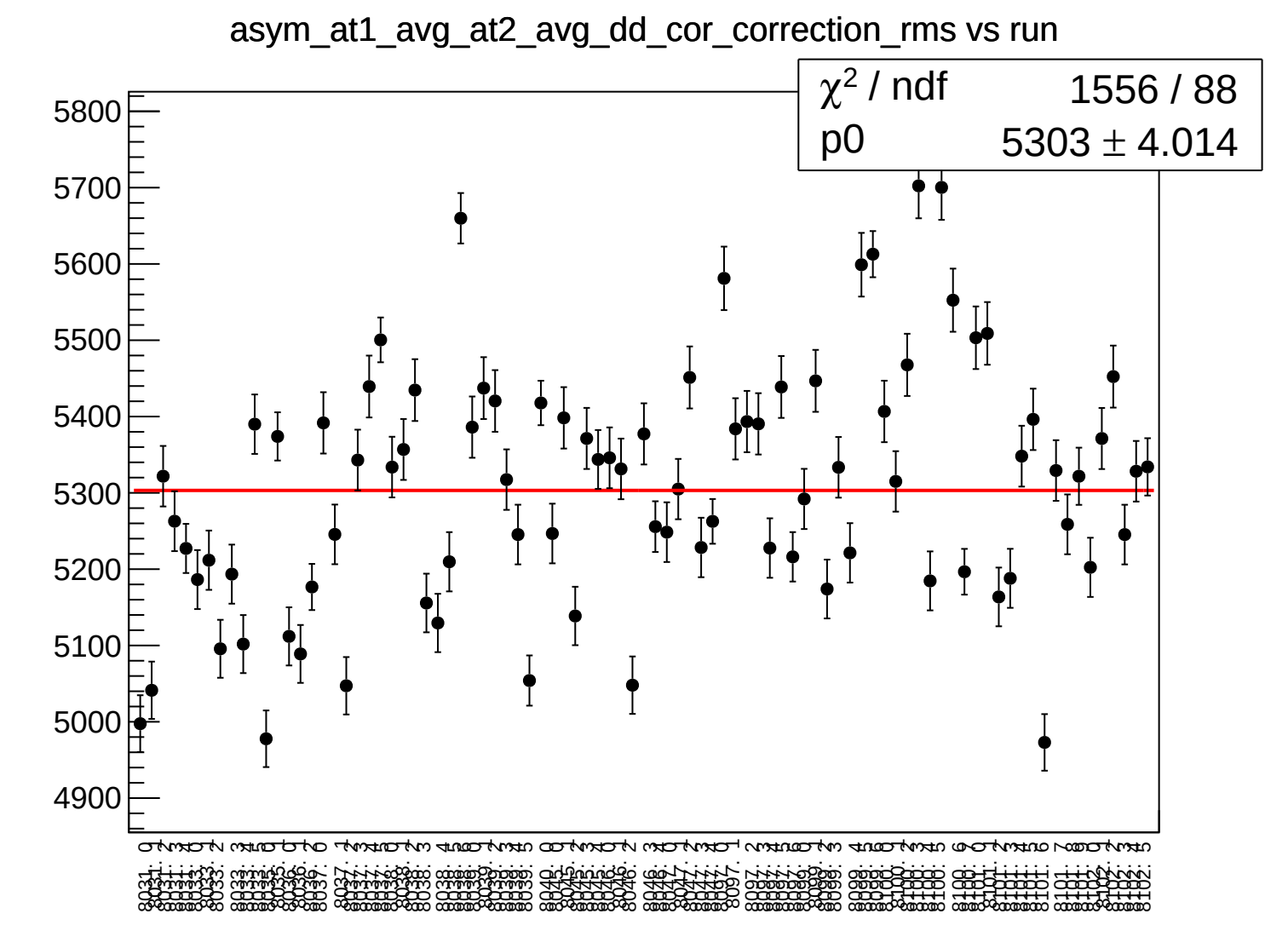

cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 103.7 / 88
p0 1218 ± 1337
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 108.3
Std Dev 0
2
1
0
−1
−2

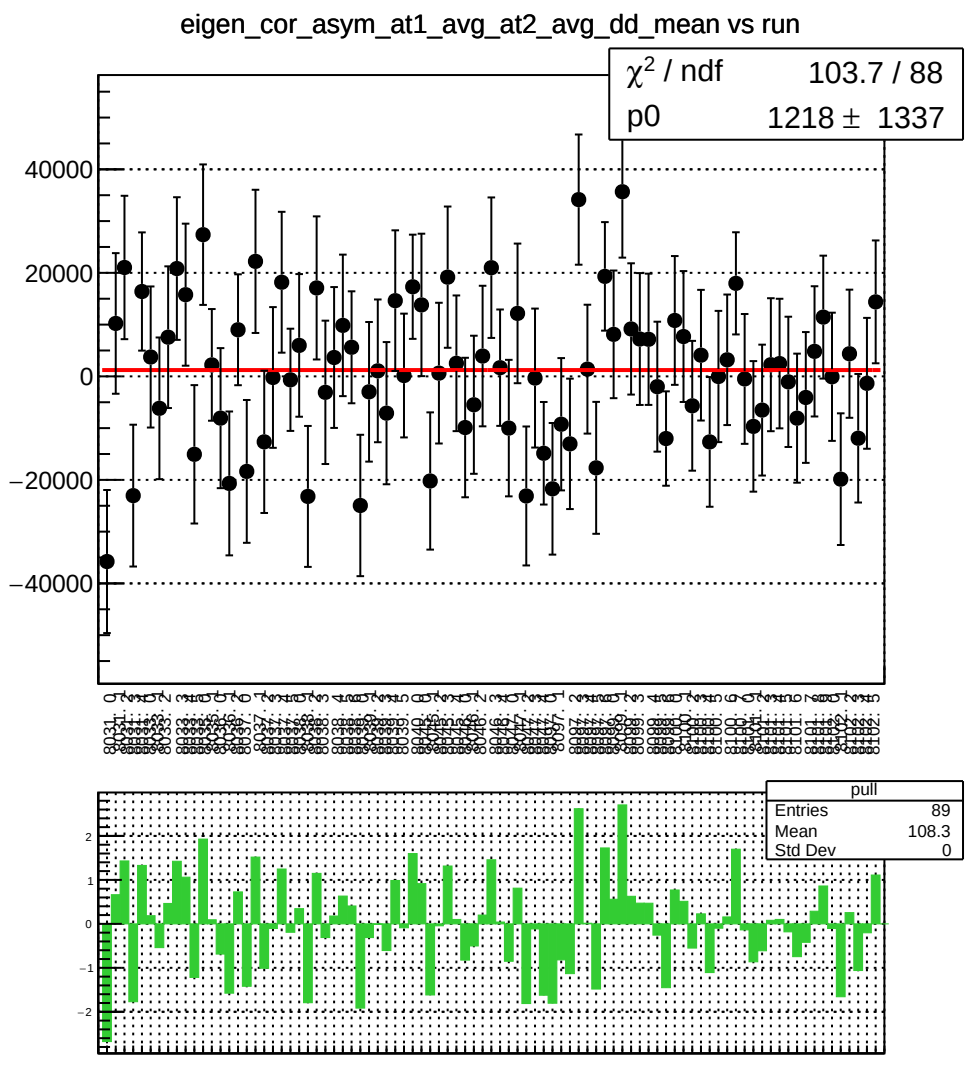

pull1D
Entries 89
Mean −0.009449
Std Dev 1.079
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

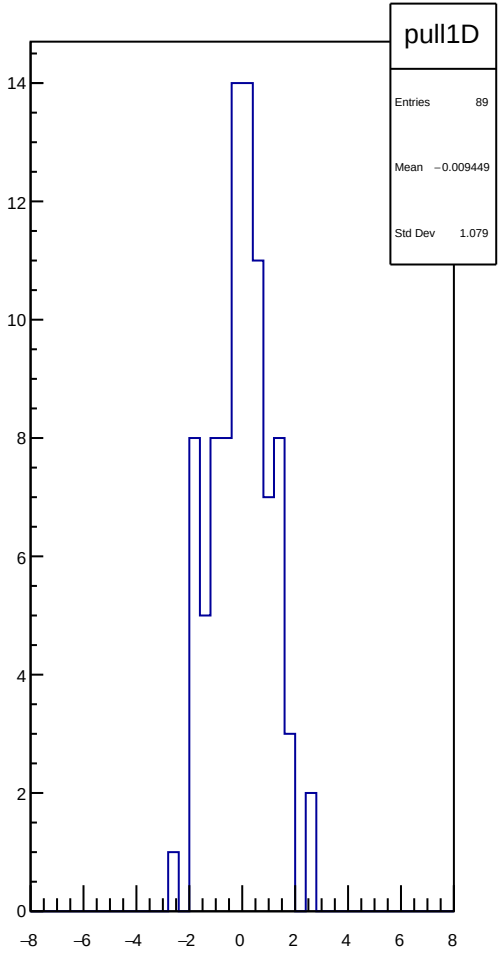

cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 2946 / 88
p0 1249 ± 0.9457
1340
1320
1300
1280
1260
1240
1220
1200
1180
1160


asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 96.76 / 88
p0 −2741 ± 5676
200
100
0
−100
−200
−300
pull
Entries 89
Mean −257.9
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 89
Mean −0.0053
Std Dev 1.043
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ² / ndf 1556 / 88
p0 5303 ± 4.014
5800
5700
5600
5500
5400
5300
5200
5100
5000
4900


eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 103.7 / 88
p0 1218 ± 1337
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 108.3
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 89
Mean −0.009449
Std Dev 1.079
14
12
10
8
6
4
2
0
−8
−6
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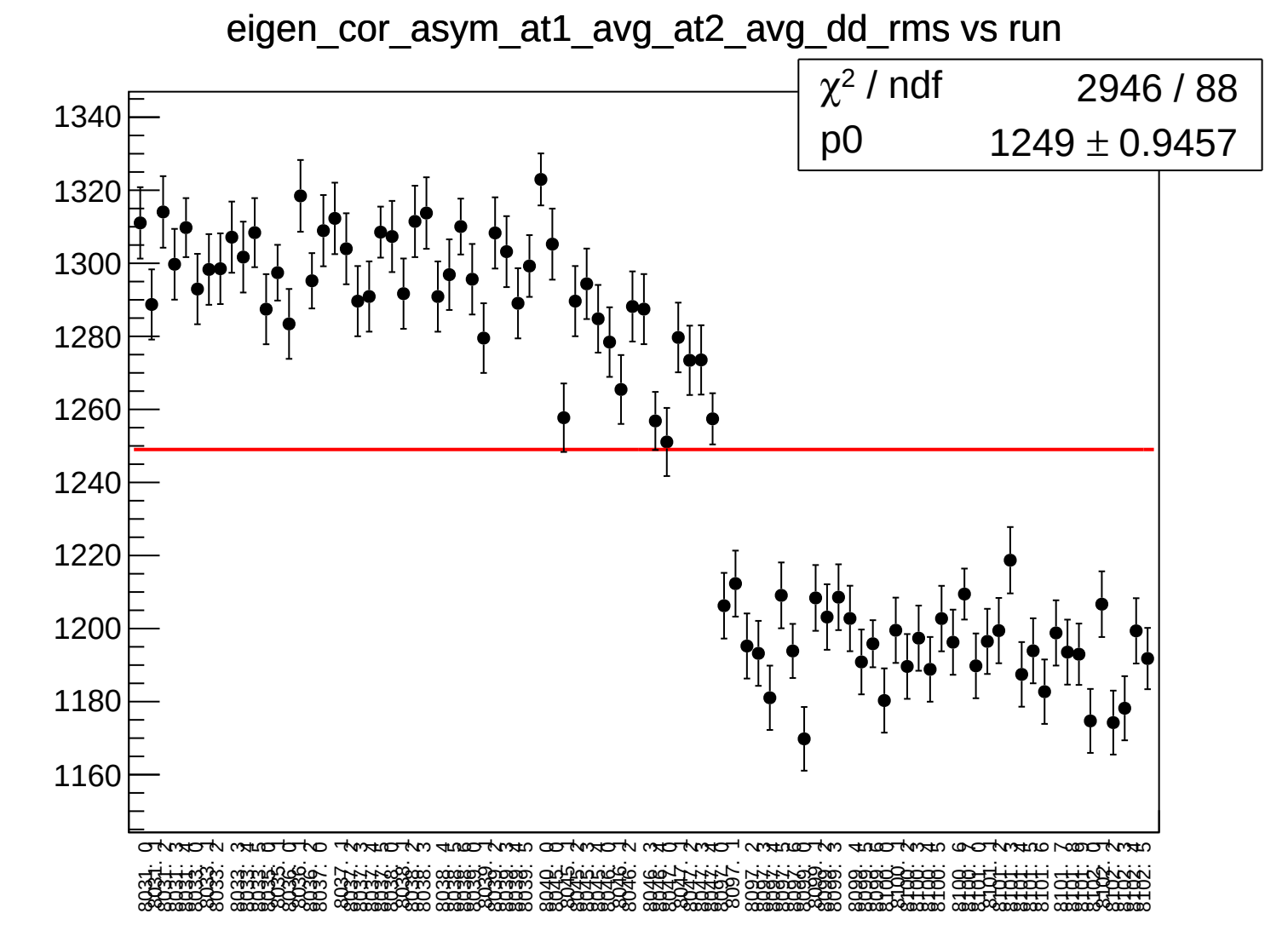
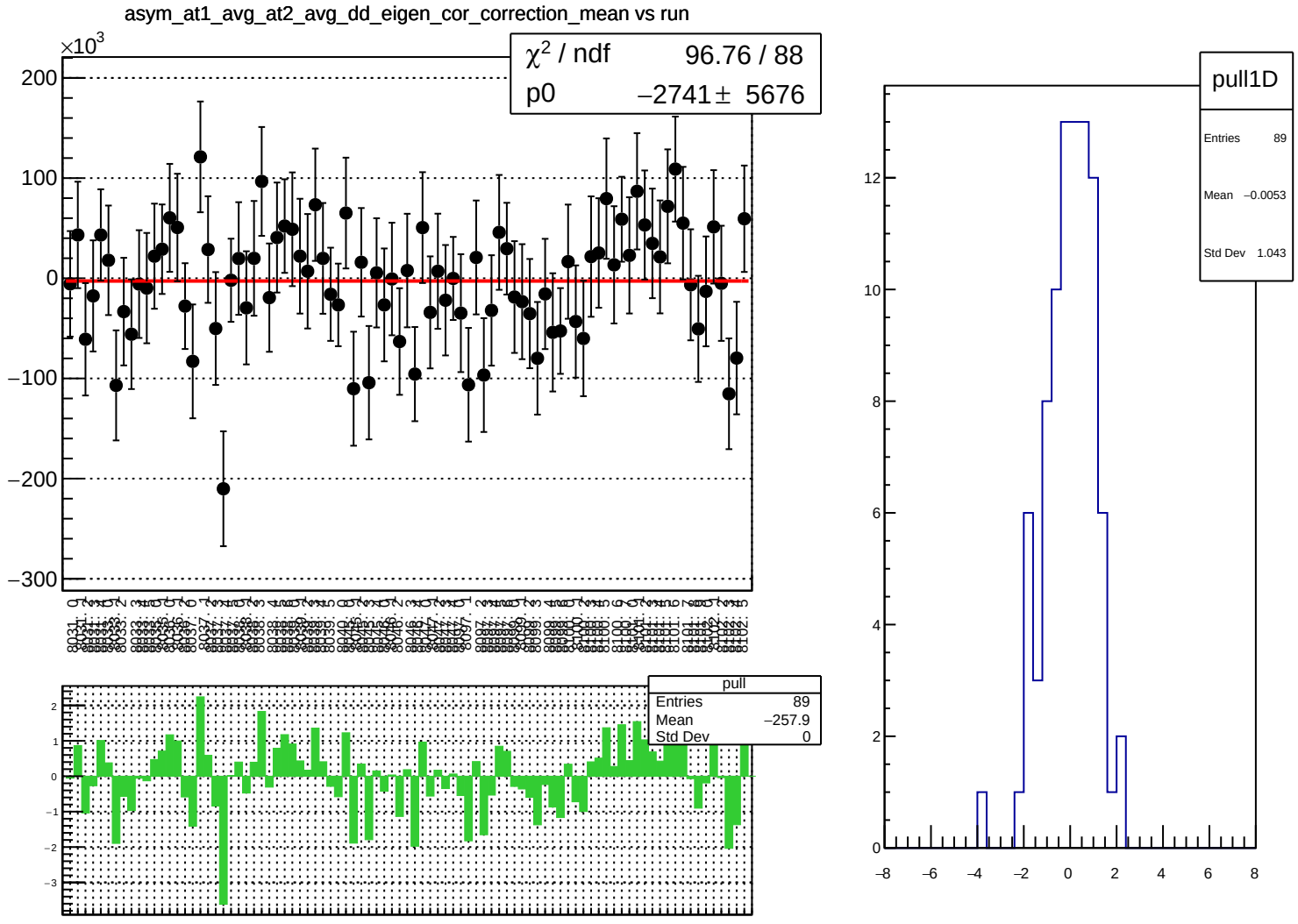
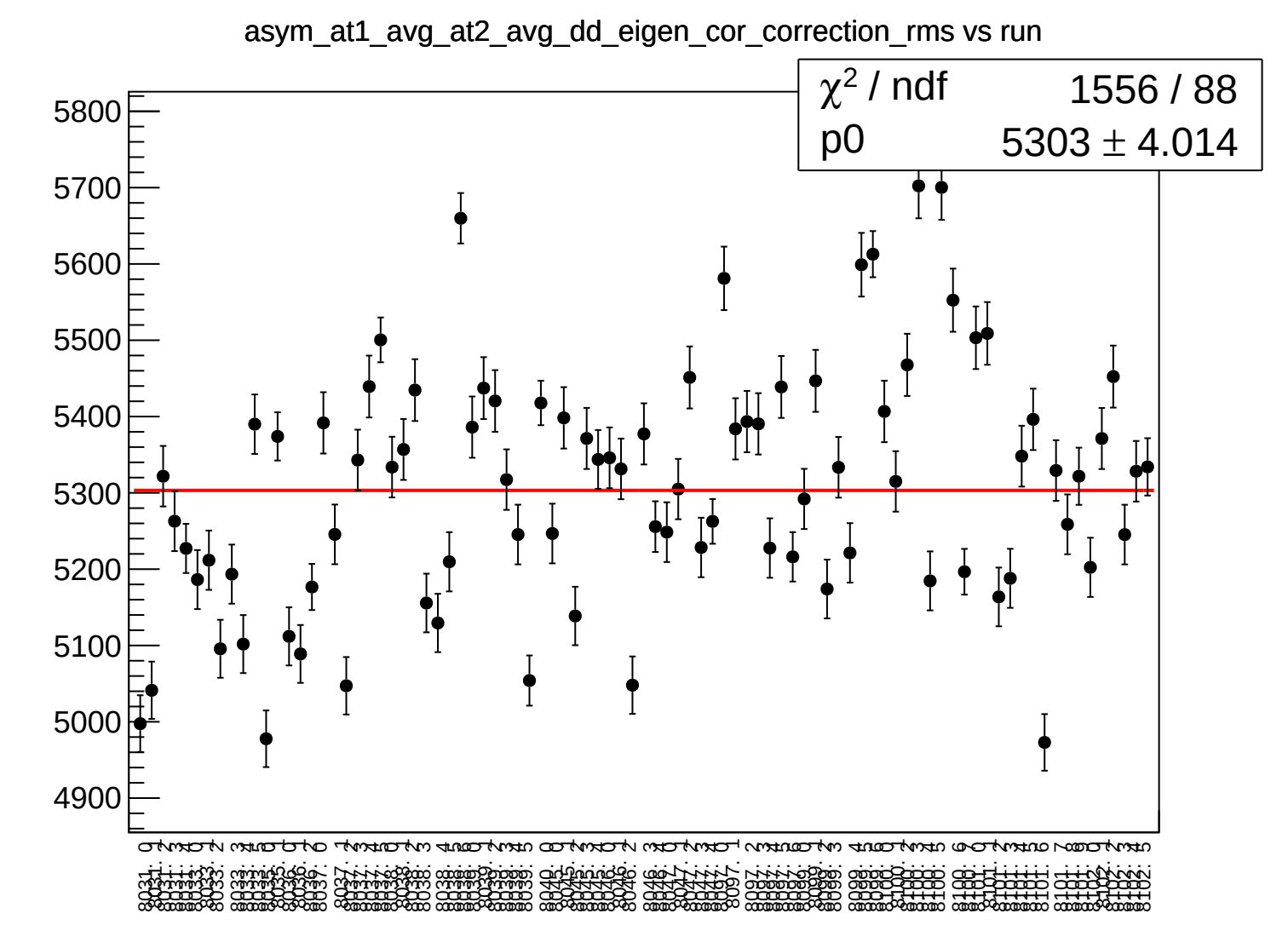
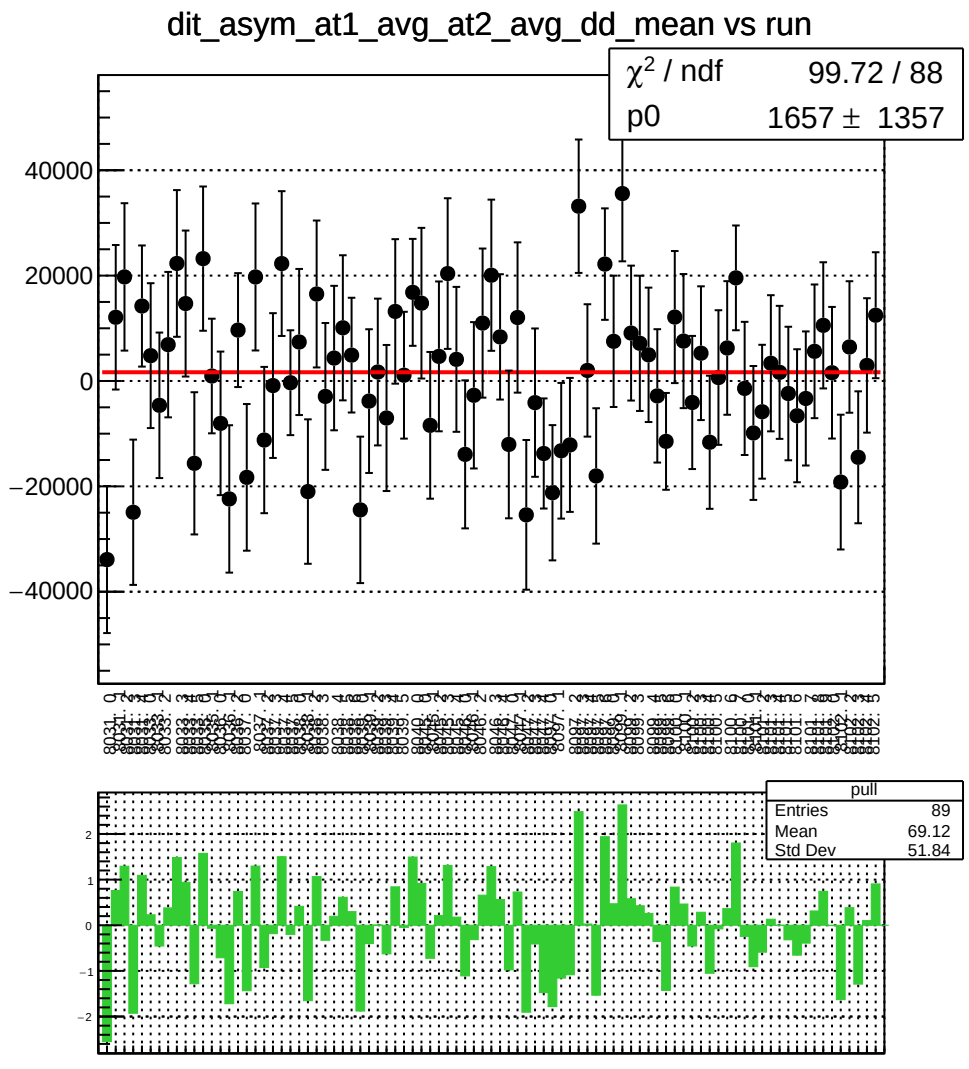
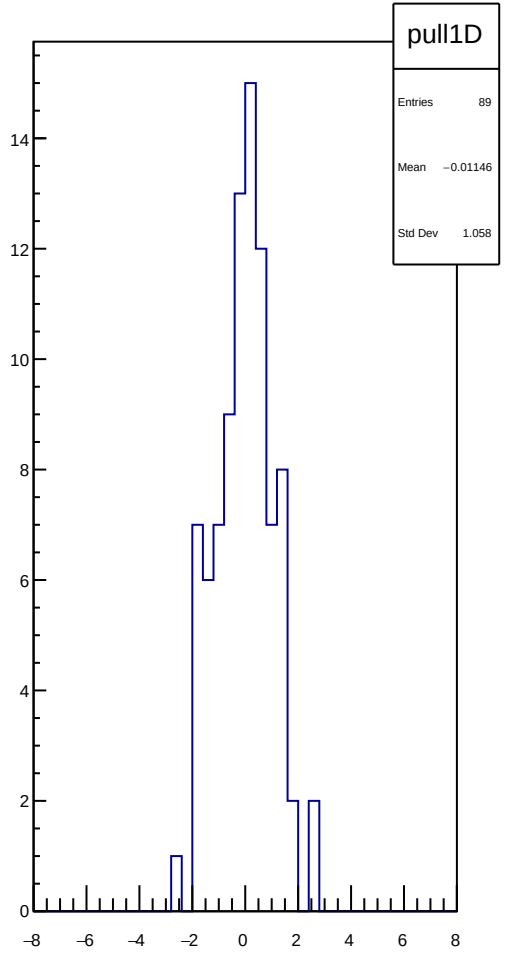
2
4
6
8

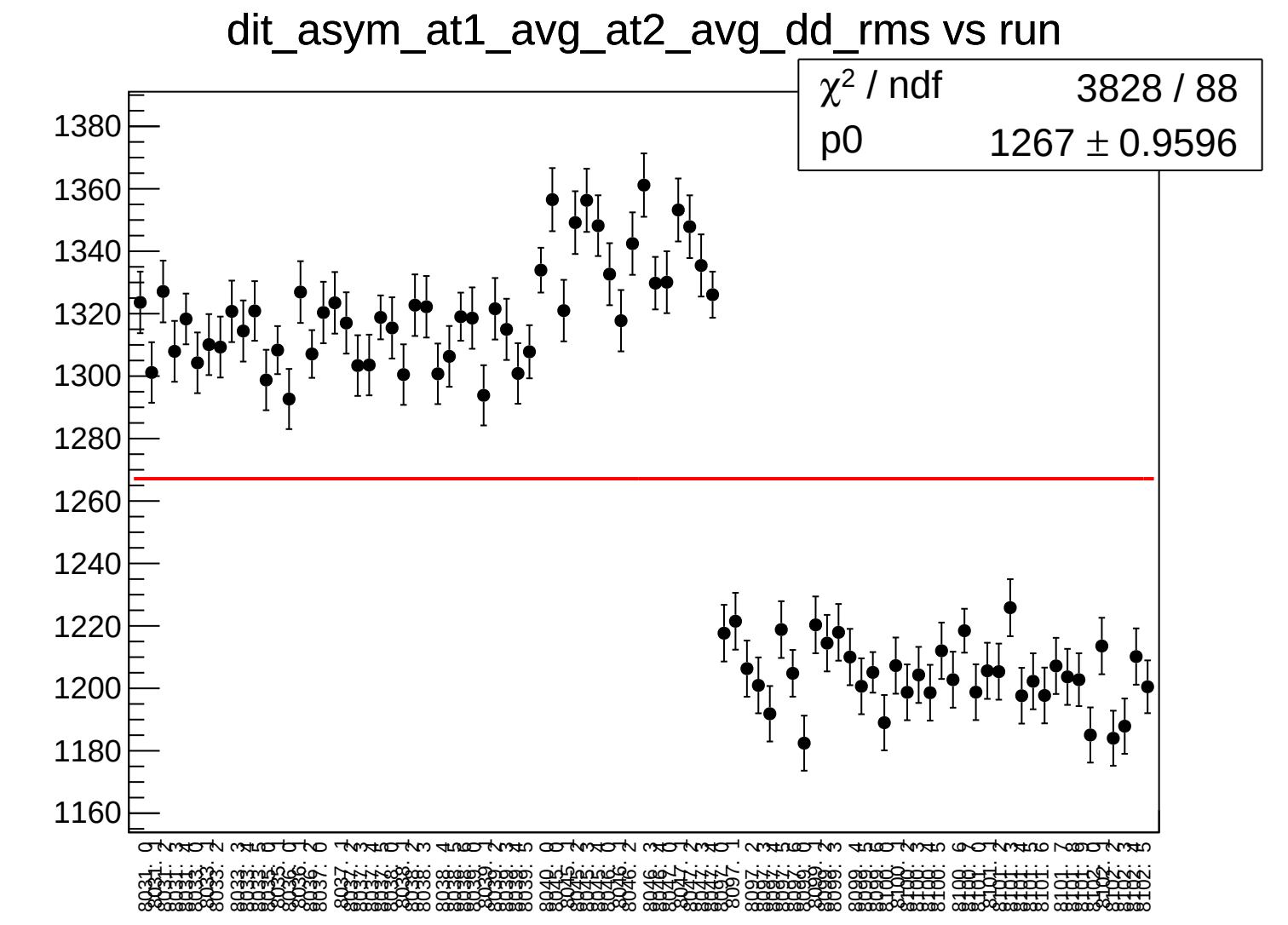

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 2946 / 88
p0 1249 ± 0.9457
1340
1320
1300
1280
1260
1240
1220
1200
1180
1160

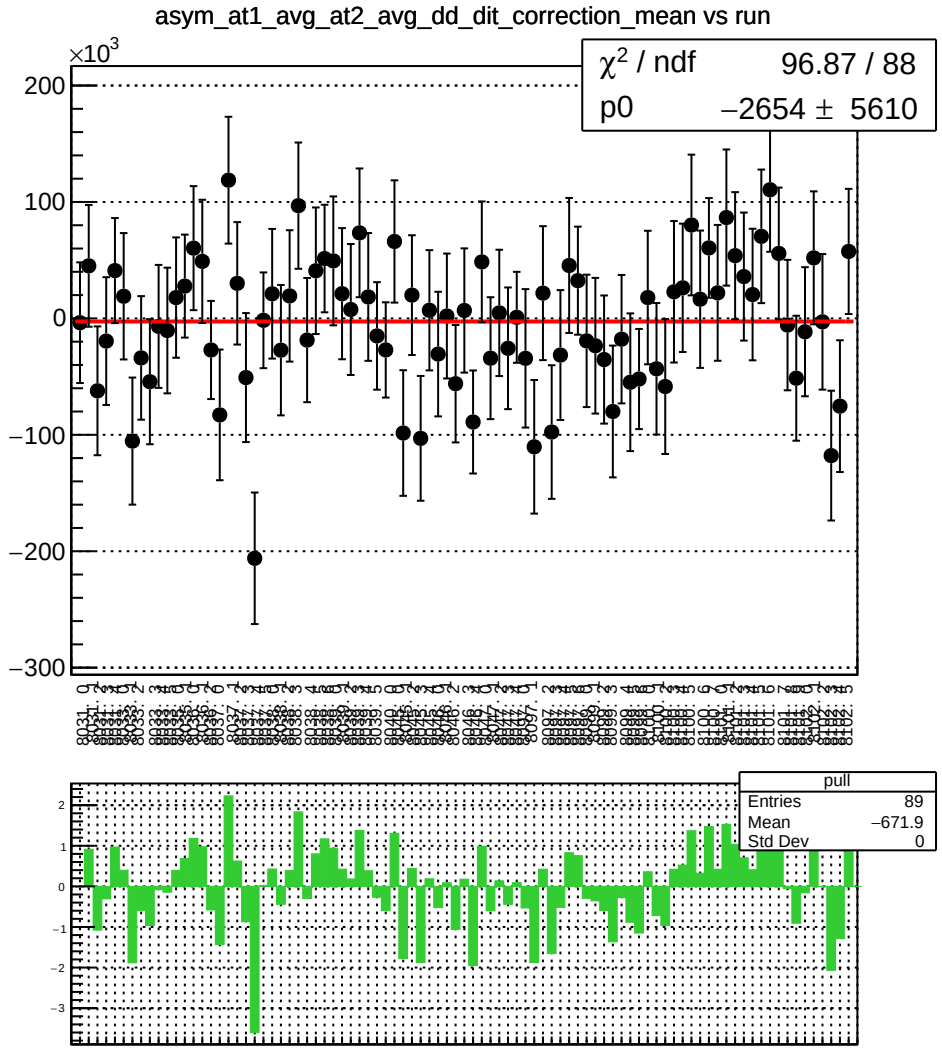

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 96.76 / 88
p0 −2741 ± 5676
200
100
0
−100
−200
−300
pull
Entries 89
Mean −257.9
Std Dev 0
pull1D
Entries 89
Mean −0.0053
Std Dev 1.043

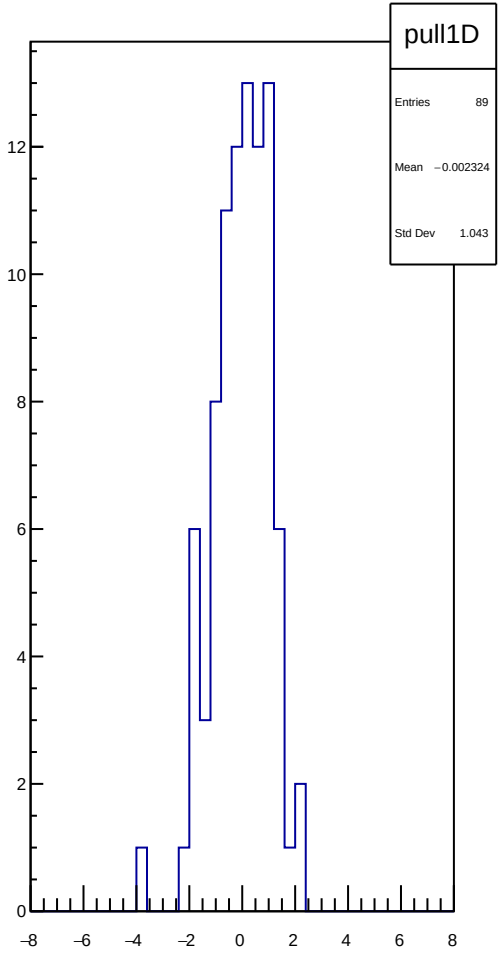

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1556 / 88
p0 5303 ± 4.014
5800
5700
5600
5500
5400
5300
5200
5100
5000
4900

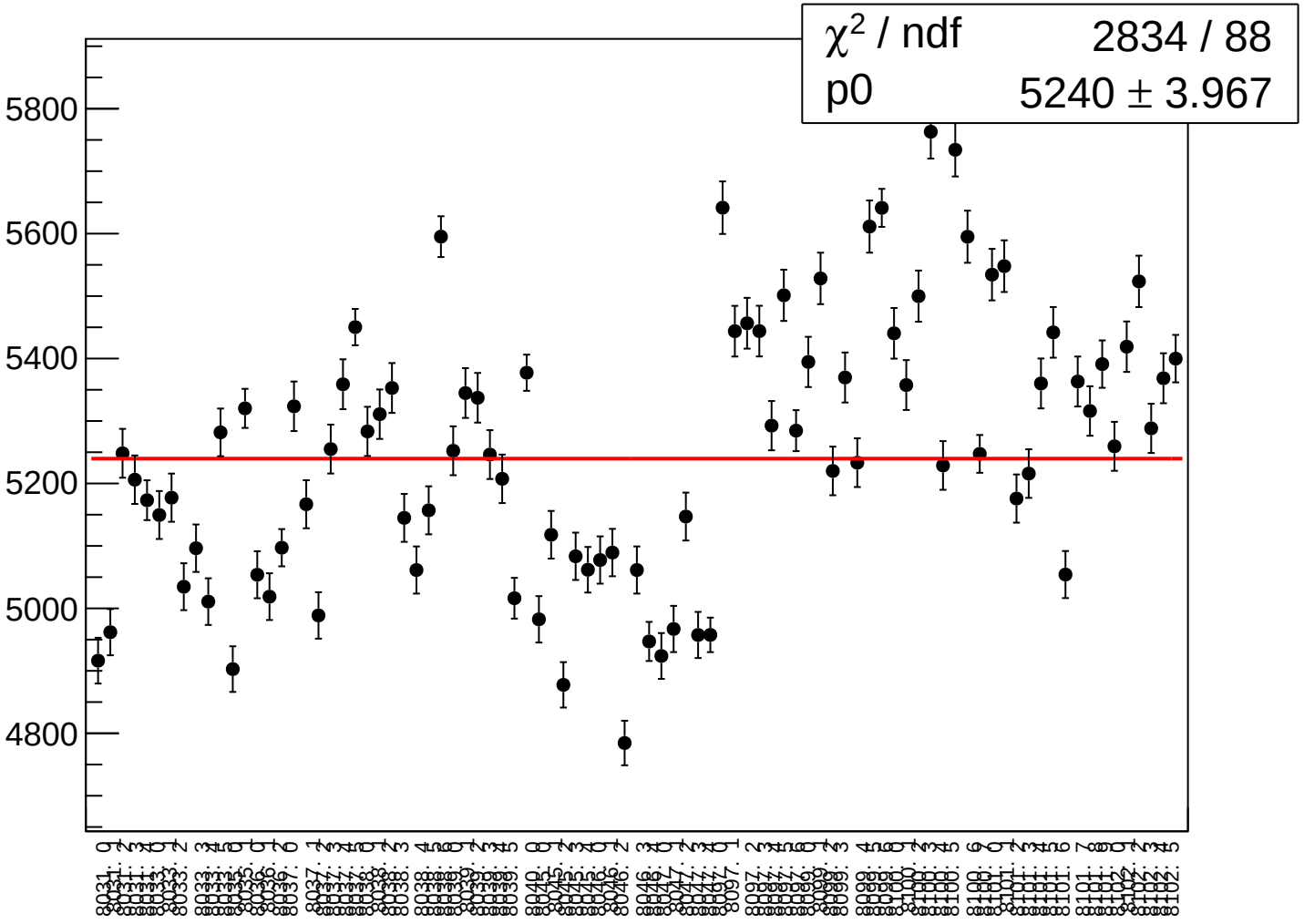

dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 99.72 / 88
p0 1657 ± 1357
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 69.12
Std Dev 51.84
2
1
0
−1
−2

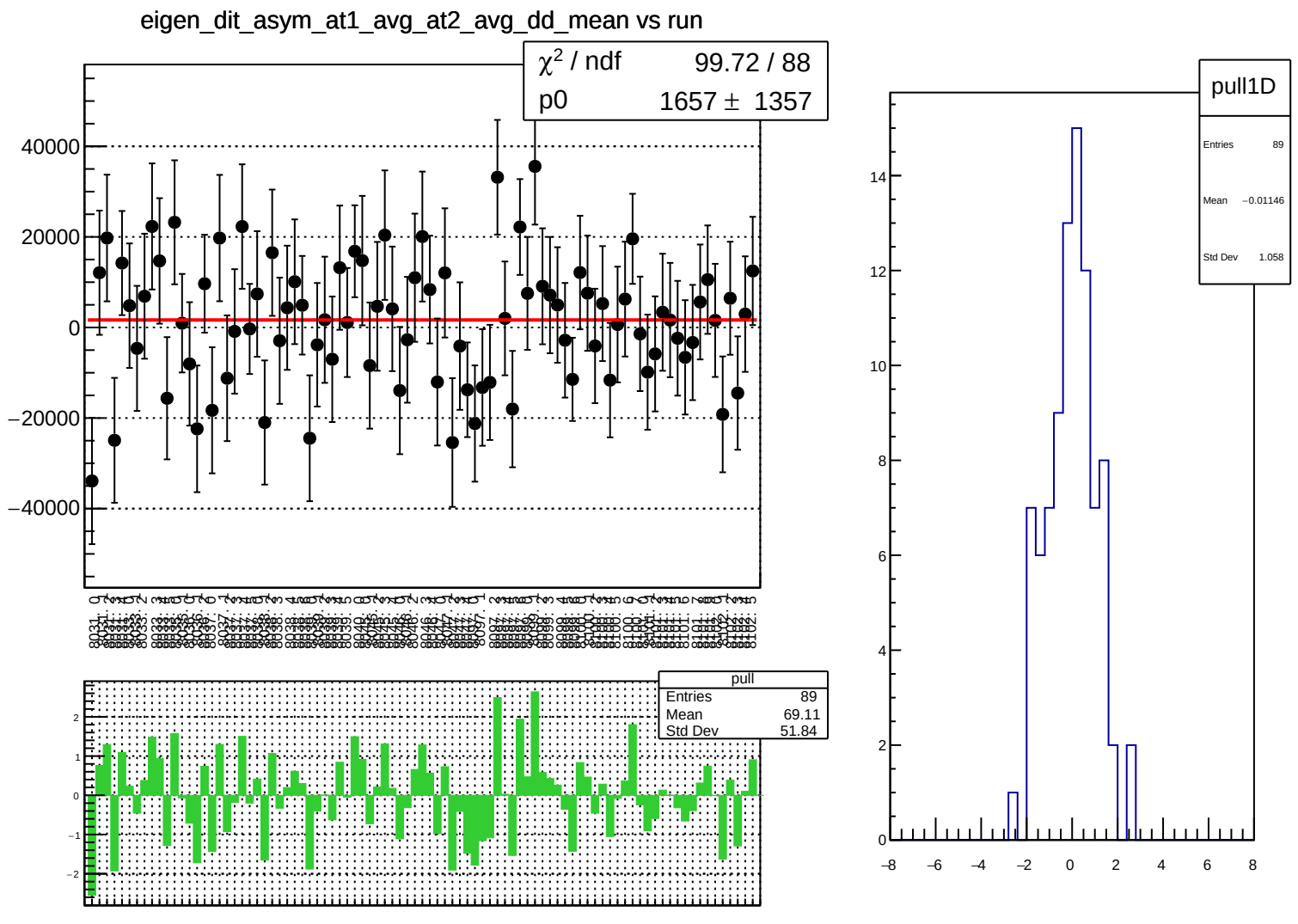

pull1D
Entries 89
Mean −0.01146
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

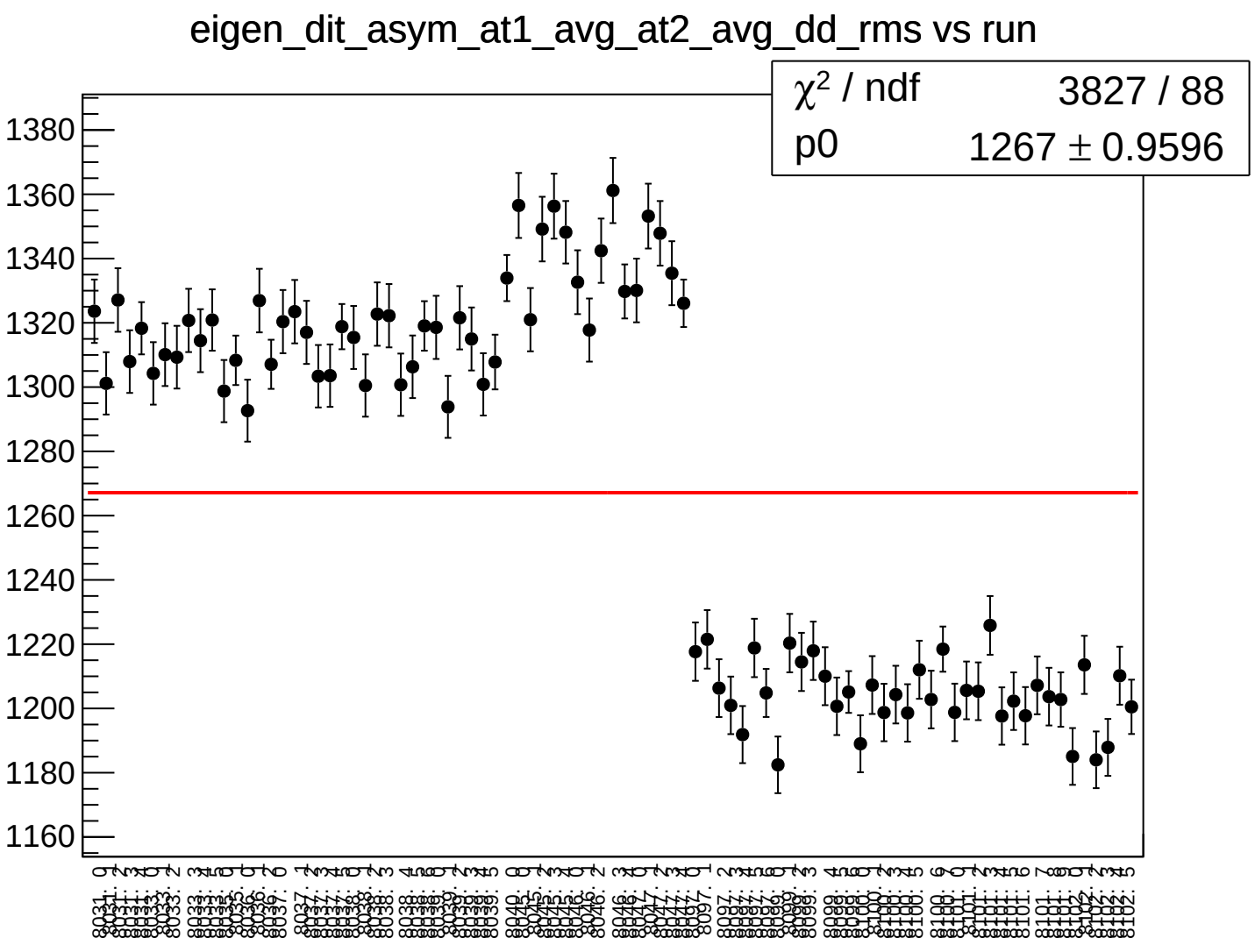

dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 3828 / 88
p0 1267 ± 0.9596
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200
1180
1160

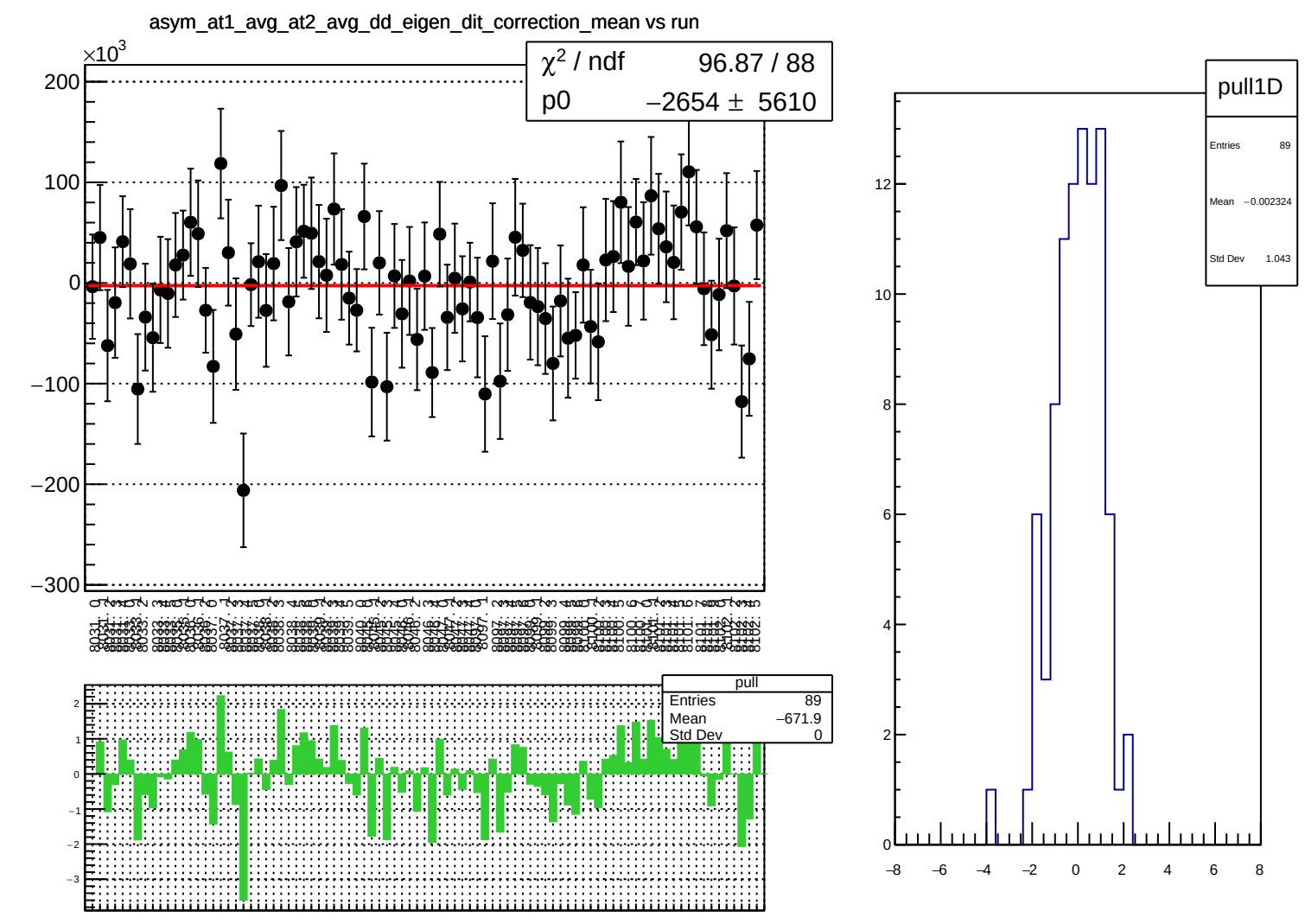

asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 96.87 / 88
p0 −2654 ± 5610
200
100
0
−100
−200
−300
pull
Entries 89
Mean −671.9
Std Dev 0
2
1
0
−1
−2
−3

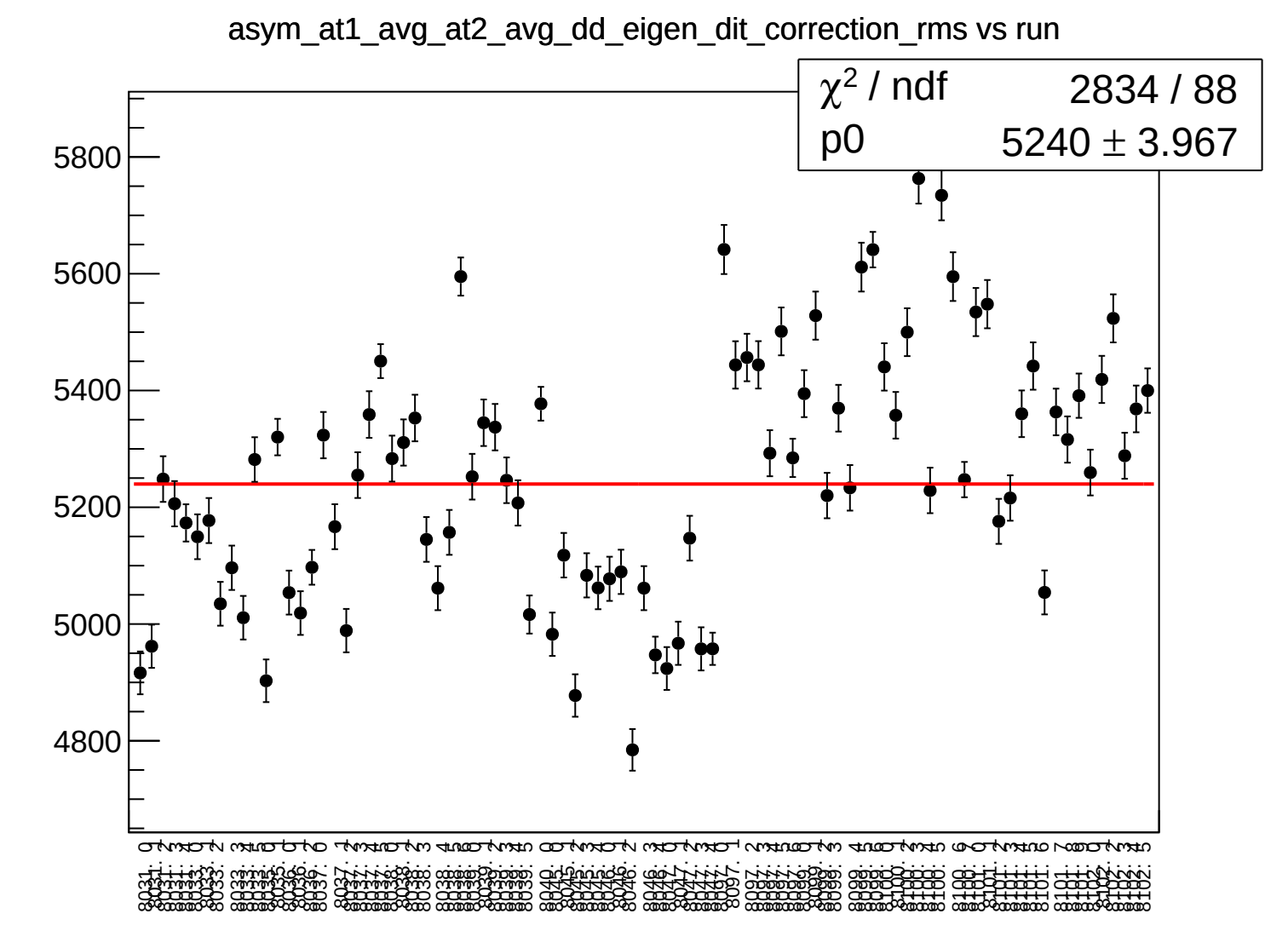

pull1D
Entries 89
Mean −0.002324
Std Dev 1.043
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

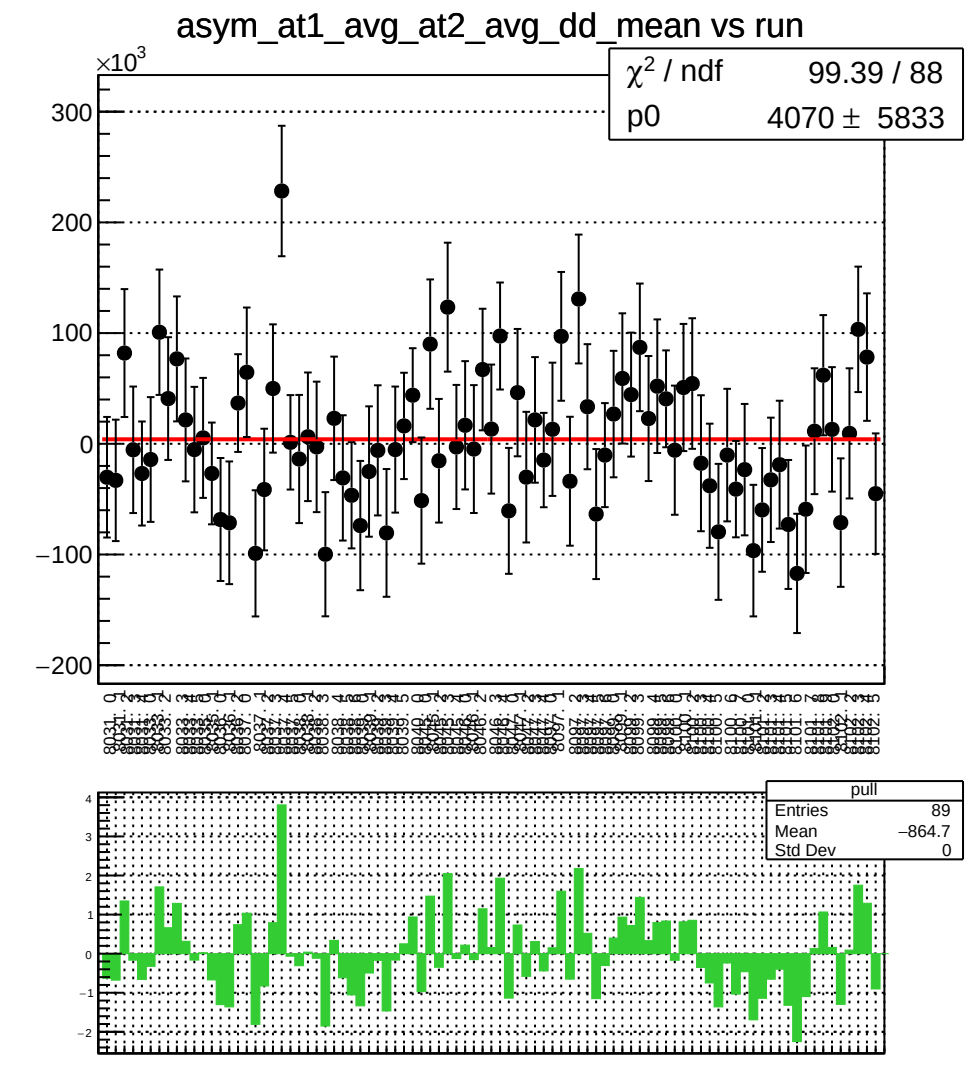

asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 2834 / 88
p0 5240 ± 3.967
5800
5600
5400
5200
5000
4800

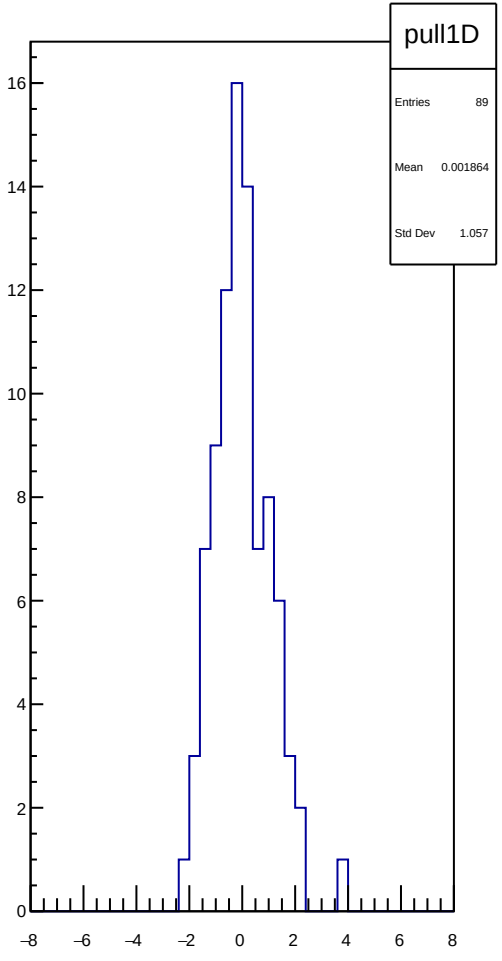

eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 99.72 / 88
p0 1657 ± 1357
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 69.11
Std Dev 51.84
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.01146
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

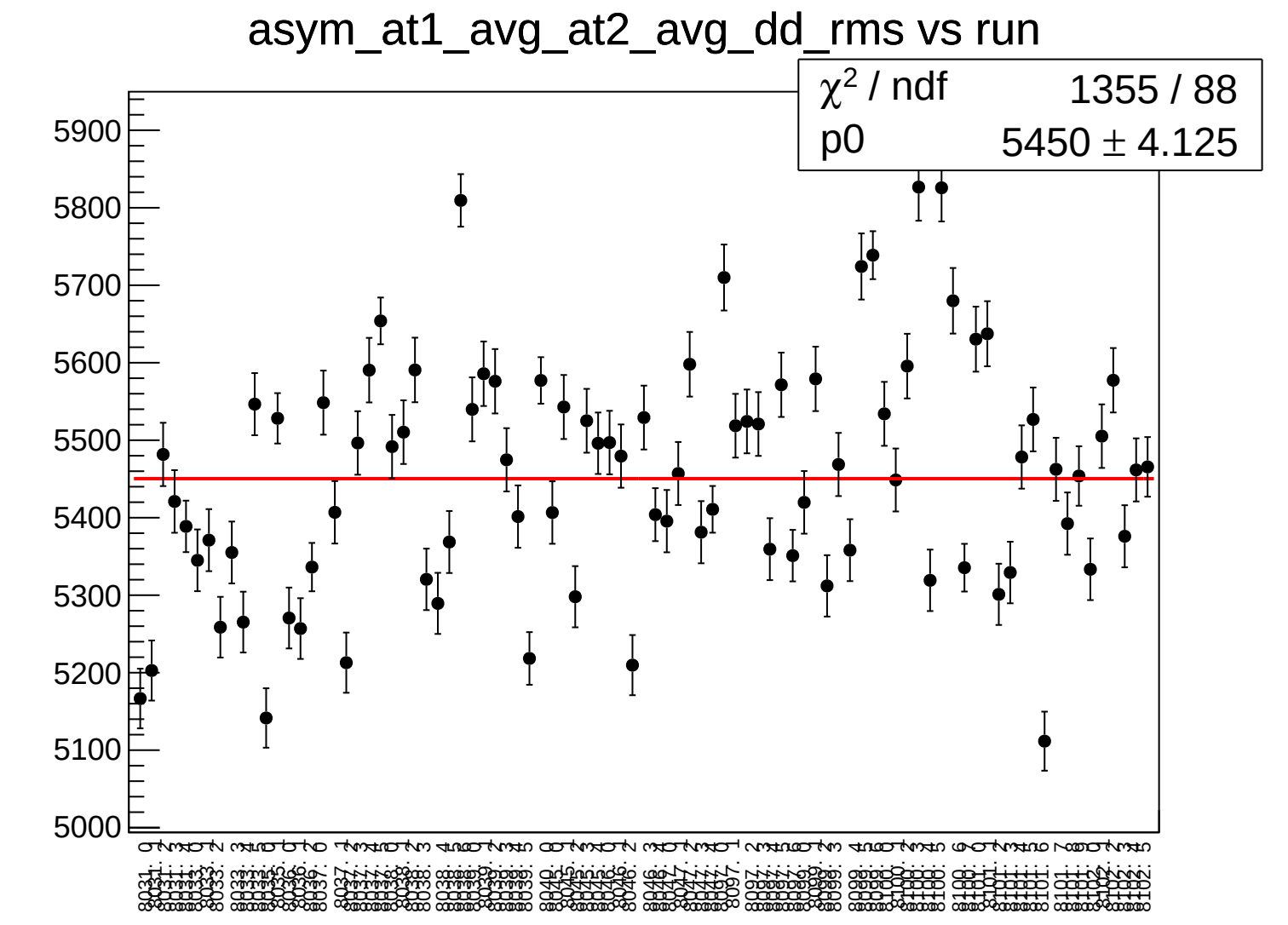

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 3827 / 88
p0 1267 ± 0.9596
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200
1180
1160

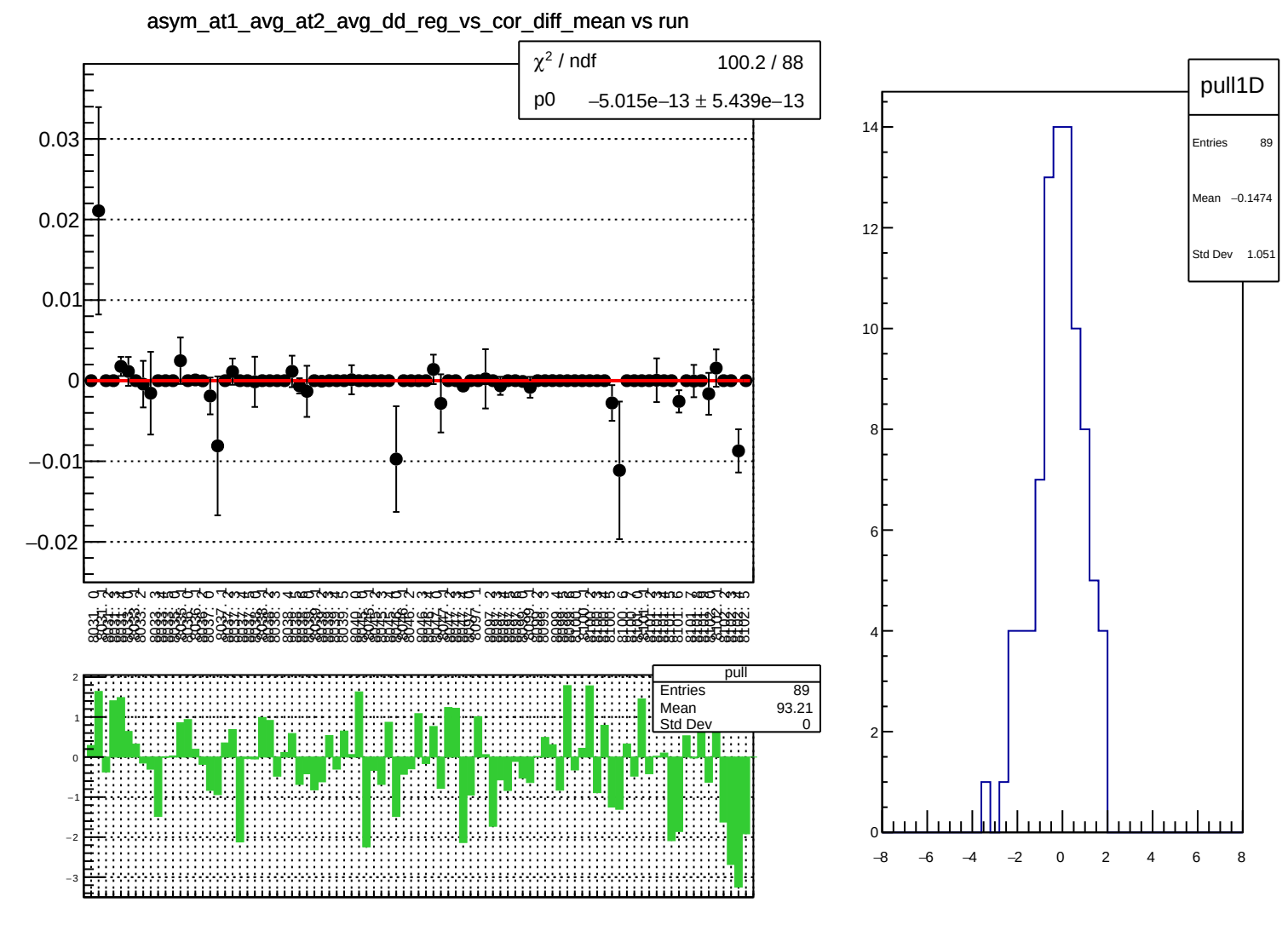

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.87 / 88
p0 −2654 ± 5610
200
100
0
−100
−200
−300
pull
Entries 89
Mean −671.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.002324
Std Dev 1.043
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

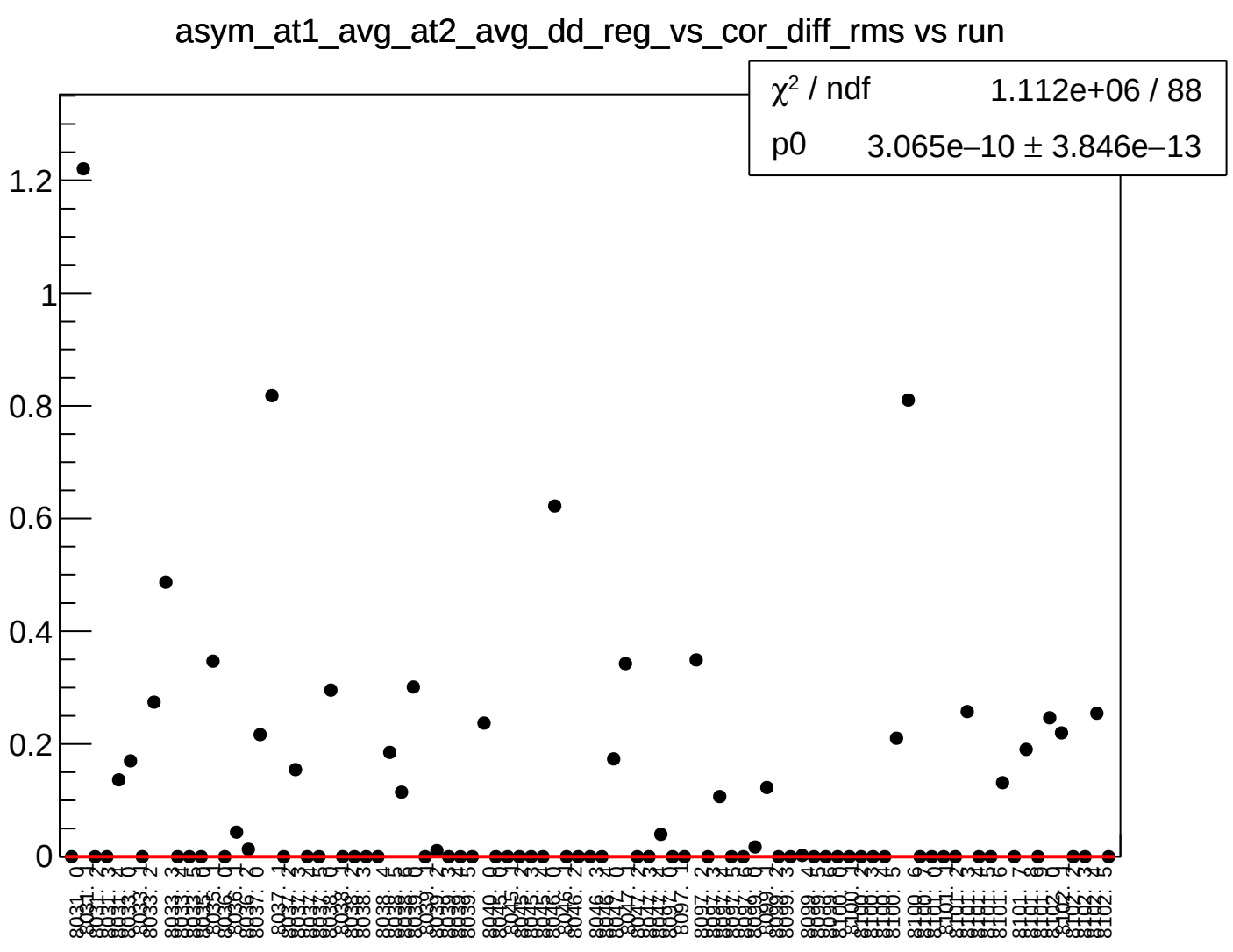

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 2834 / 88
p0 5240 ± 3.967
5800
5600
5400
5200
5000
4800

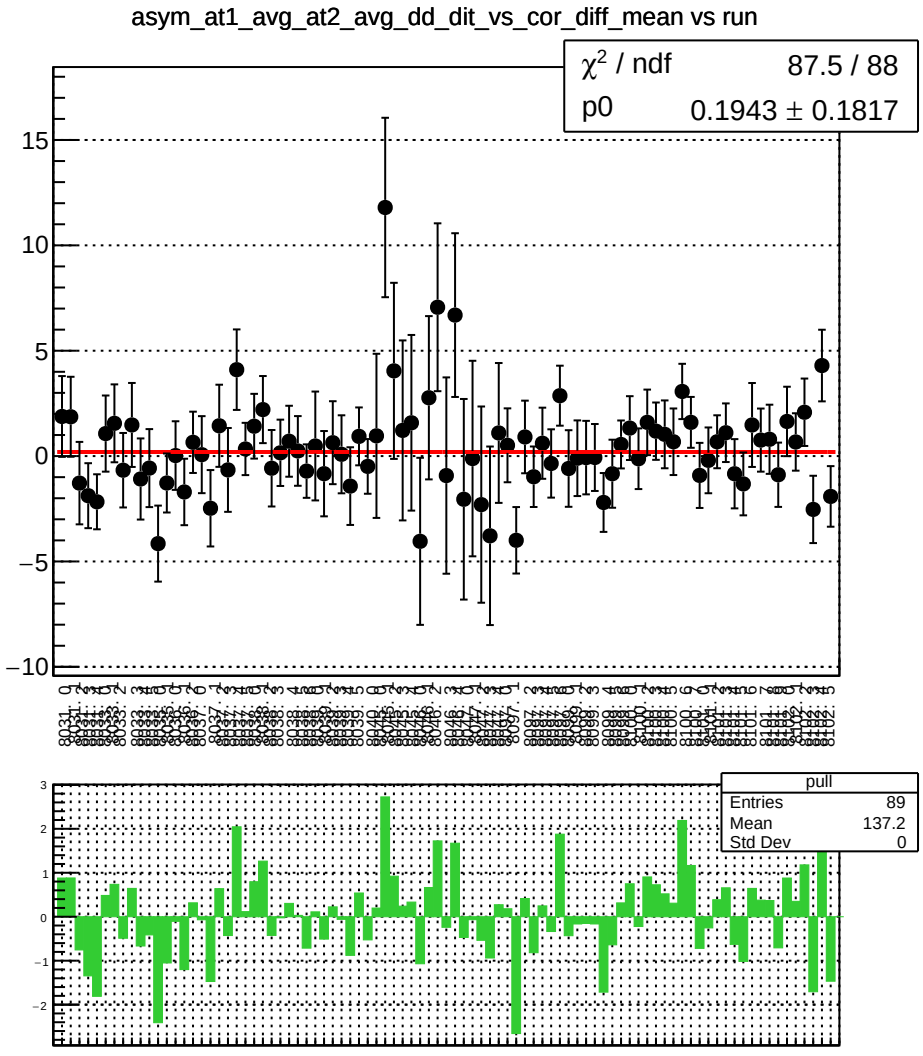

asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ² / ndf 99.39 / 88
p0 4070 ± 5833
300
200
100
0
−100
−200
pull
Entries 89
Mean −864.7
Std Dev 0
4
3
2
1
0
−1
−2

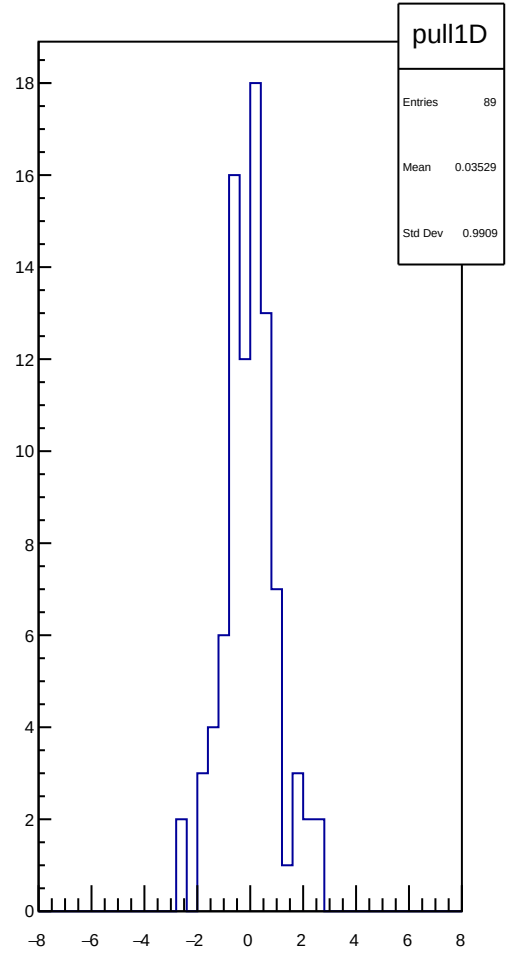

pull1D
Entries 89
Mean 0.001864
Std Dev 1.057
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

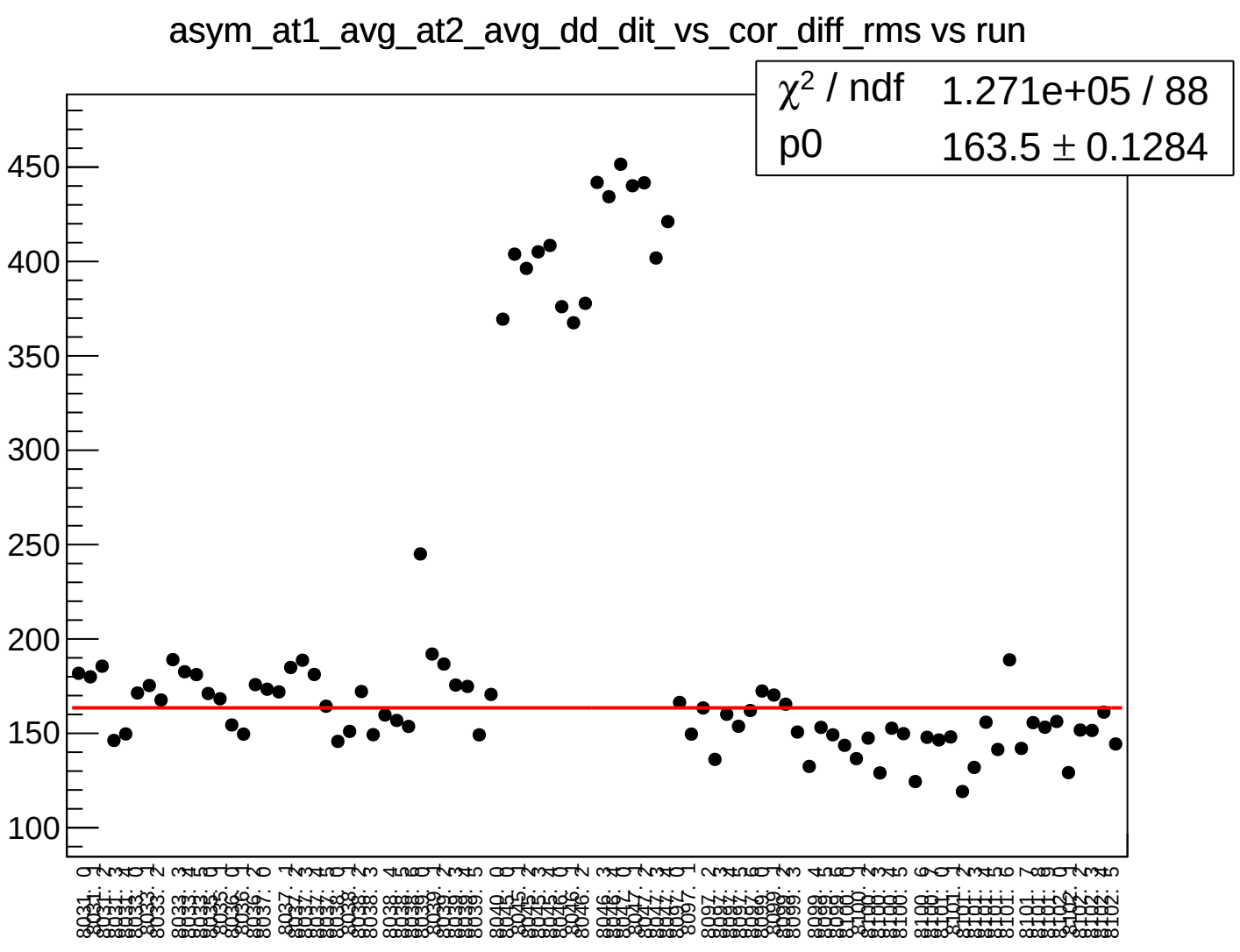

asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 1355 / 88
p0 5450 ± 4.125
5900
5800
5700
5600
5500
5400
5300
5200
5100
5000

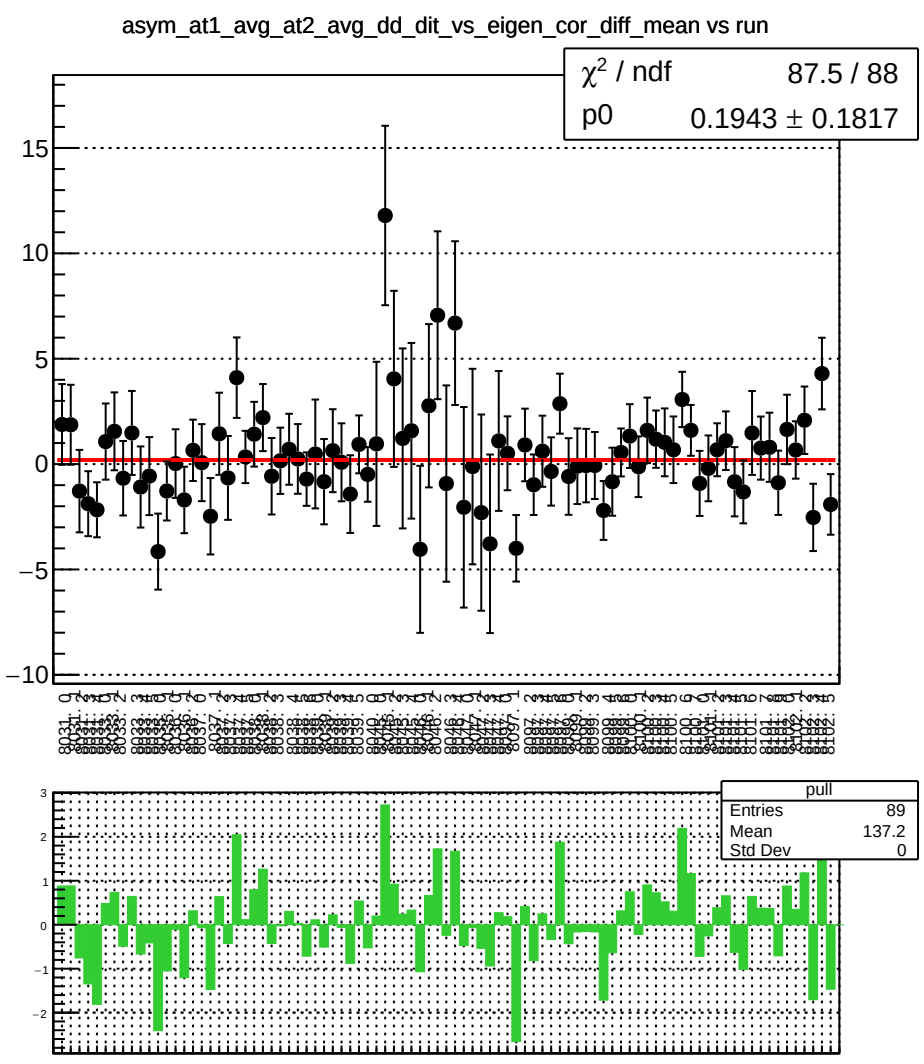

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 100.2 / 88
p0 −5.015e−13 ± 5.439e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 89
Mean 93.21
Std Dev 0
pull1D
Entries 89
Mean −0.1474
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

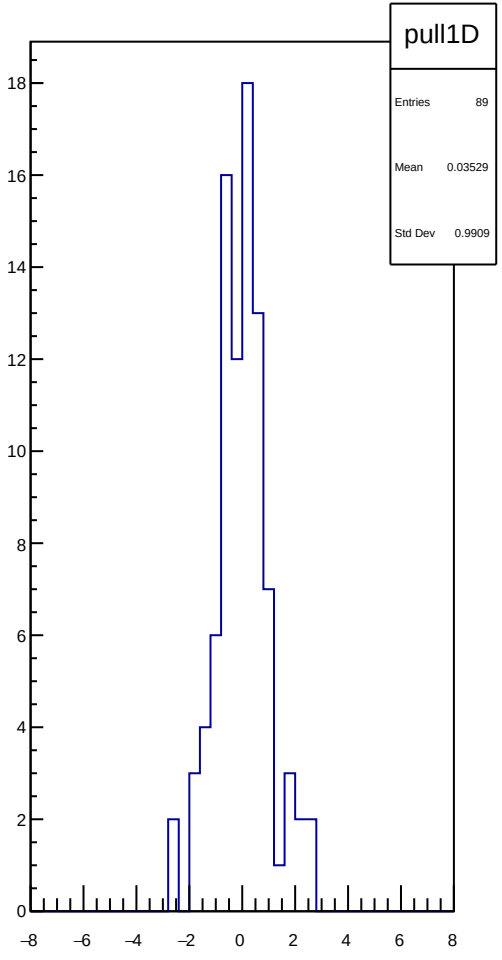

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.112e+06 / 88
p0 3.065e−10 ± 3.846e−13
1.2
1
0.8
0.6
0.4
0.2
0

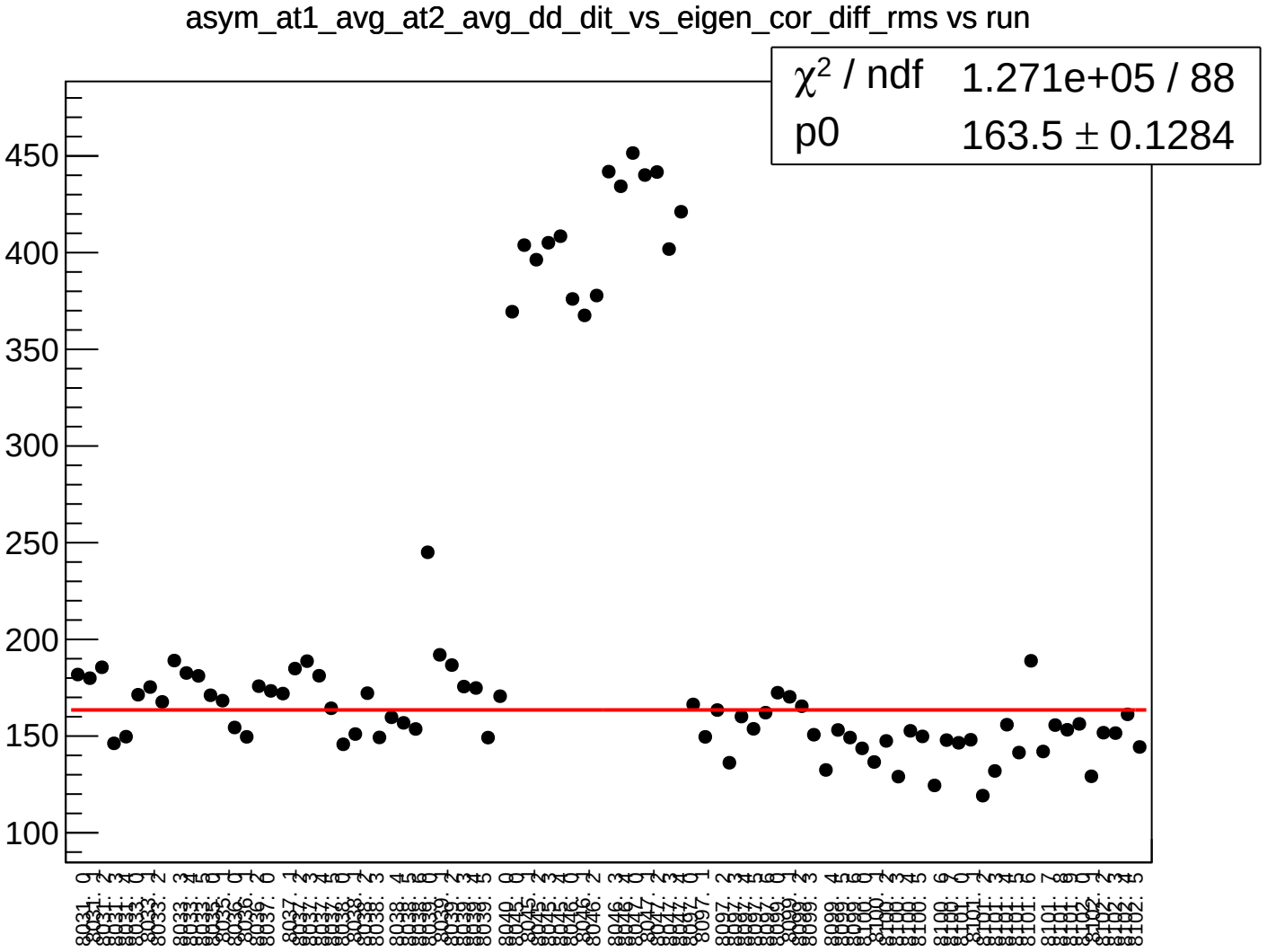

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.5 / 88
p0 0.1943 ± 0.1817
pull
Entries 89
Mean 137.2
Std Dev 0

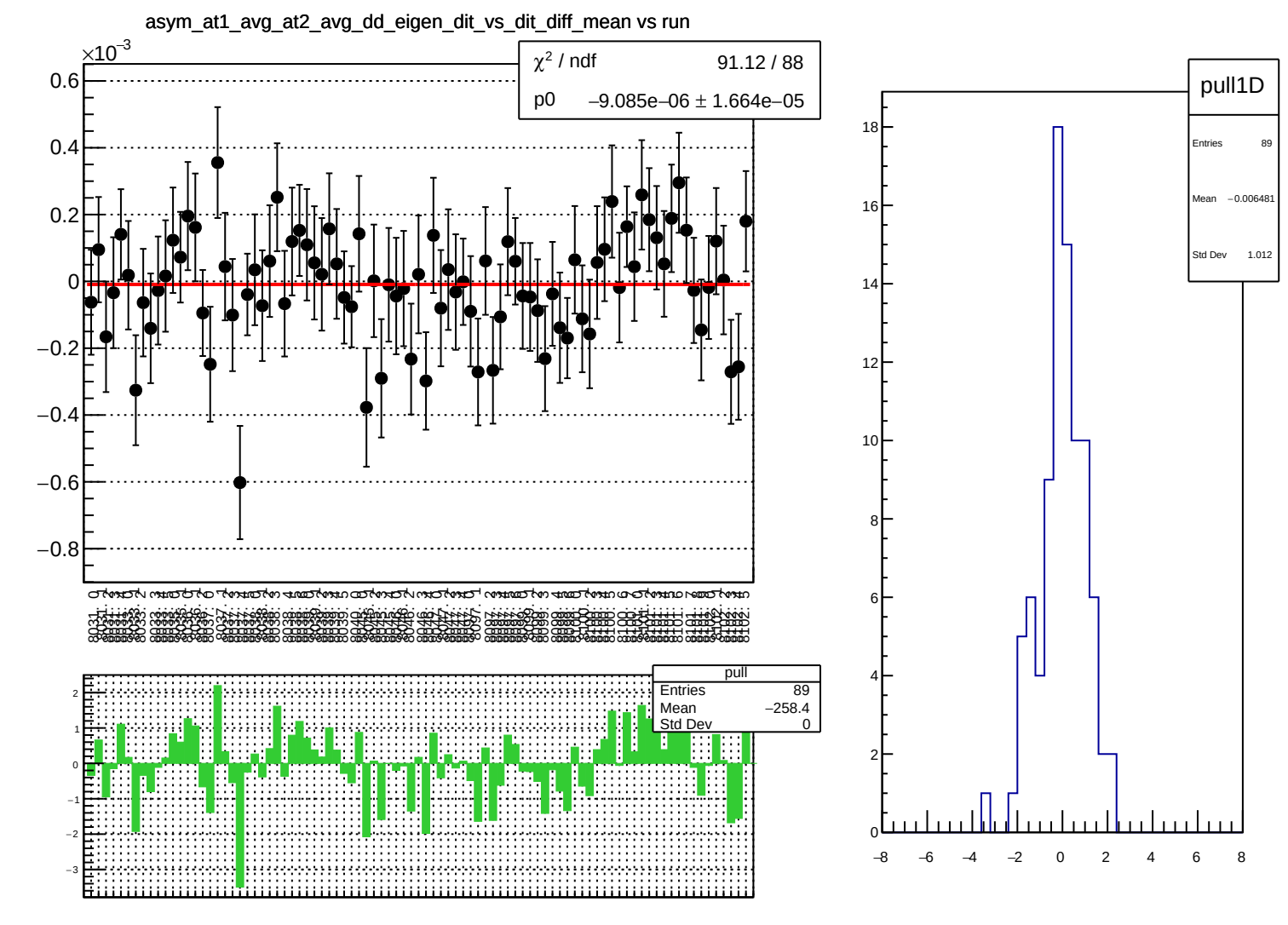

pull1D
Entries 89
Mean 0.03529
Std Dev 0.9909

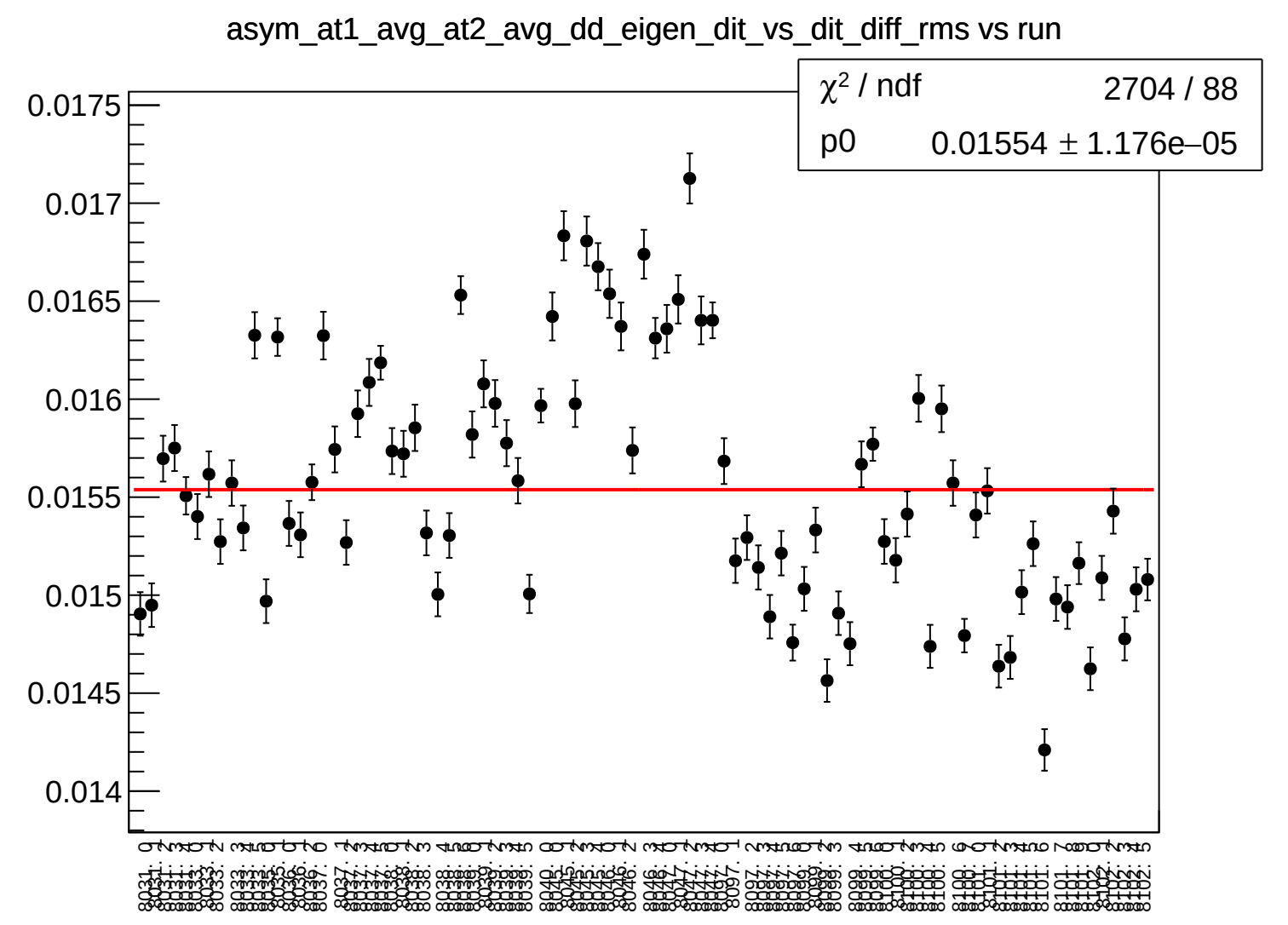

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.271e+05 / 88
p0 163.5 ± 0.1284
450
400
350
300
250
200
150
100

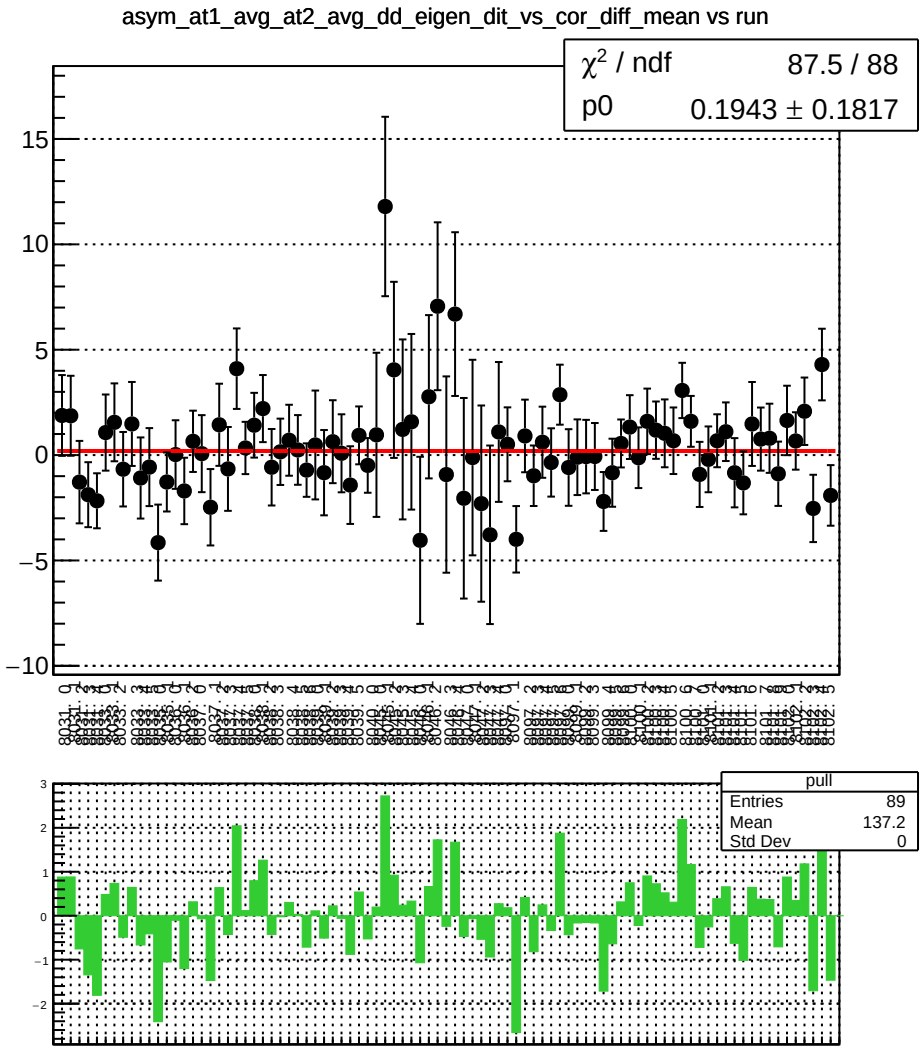

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.5 / 88
p0 0.1943 ± 0.1817
pull
Entries 89
Mean 137.2
Std Dev 0

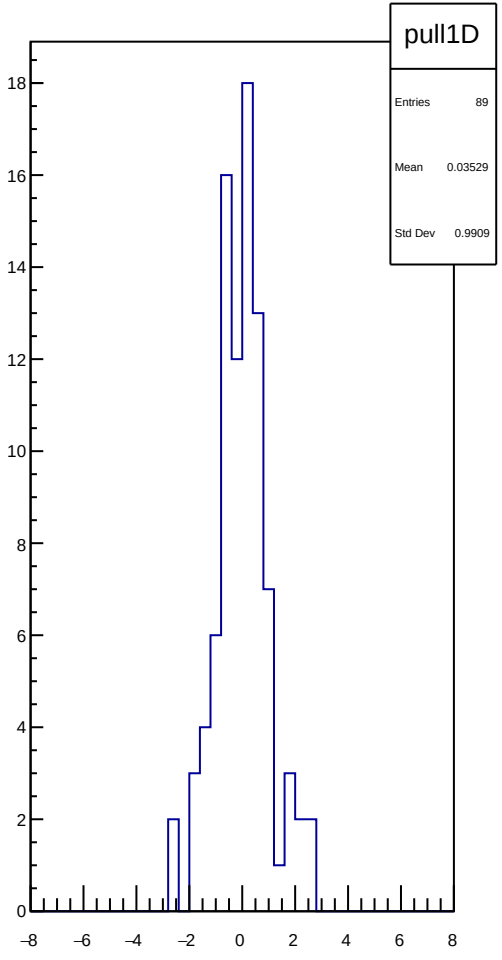

pull1D
Entries 89
Mean 0.03529
Std Dev 0.9909

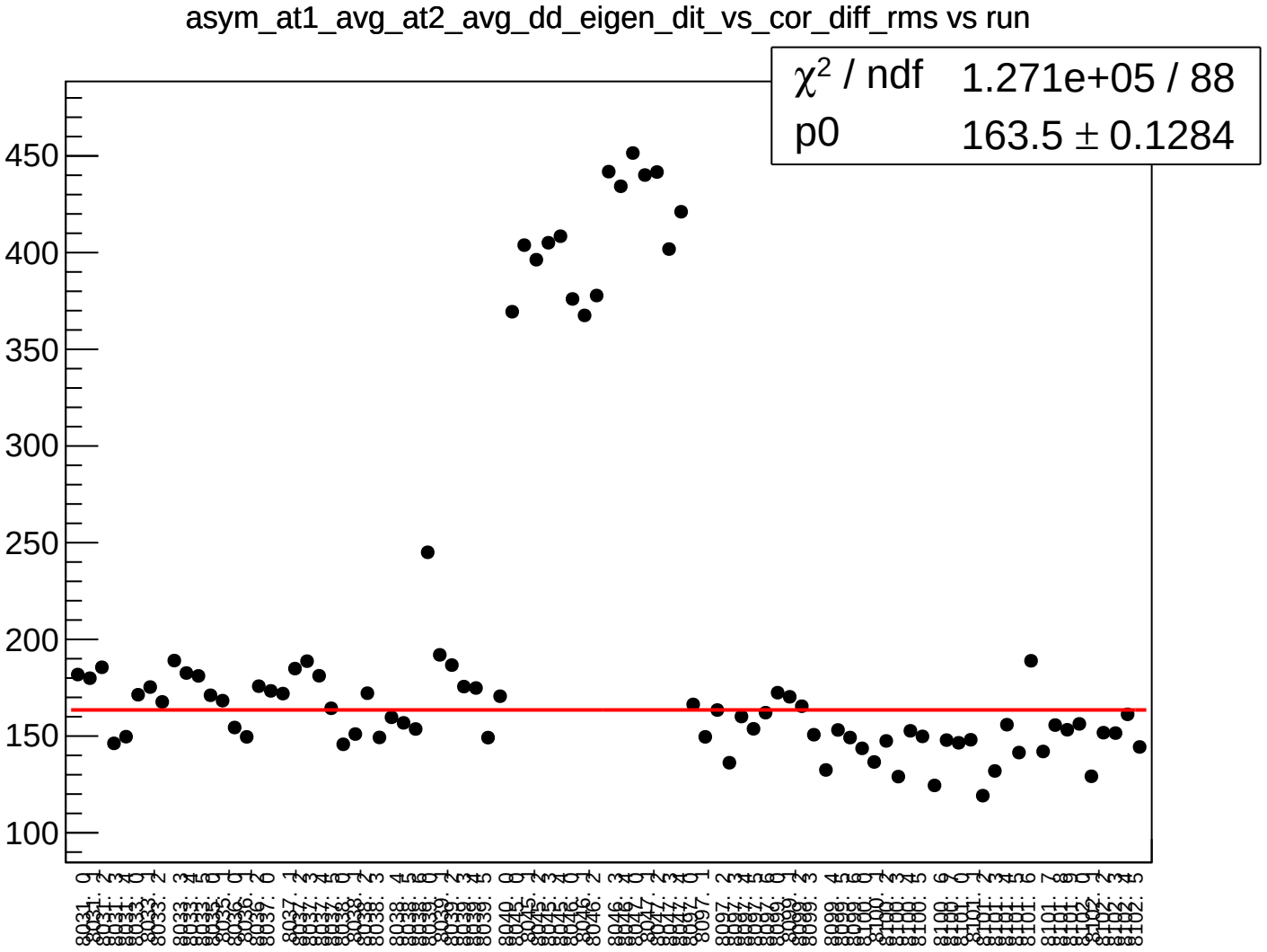

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.271e+05 / 88
p0 163.5 ± 0.1284
450
400
350
300
250
200
150
100

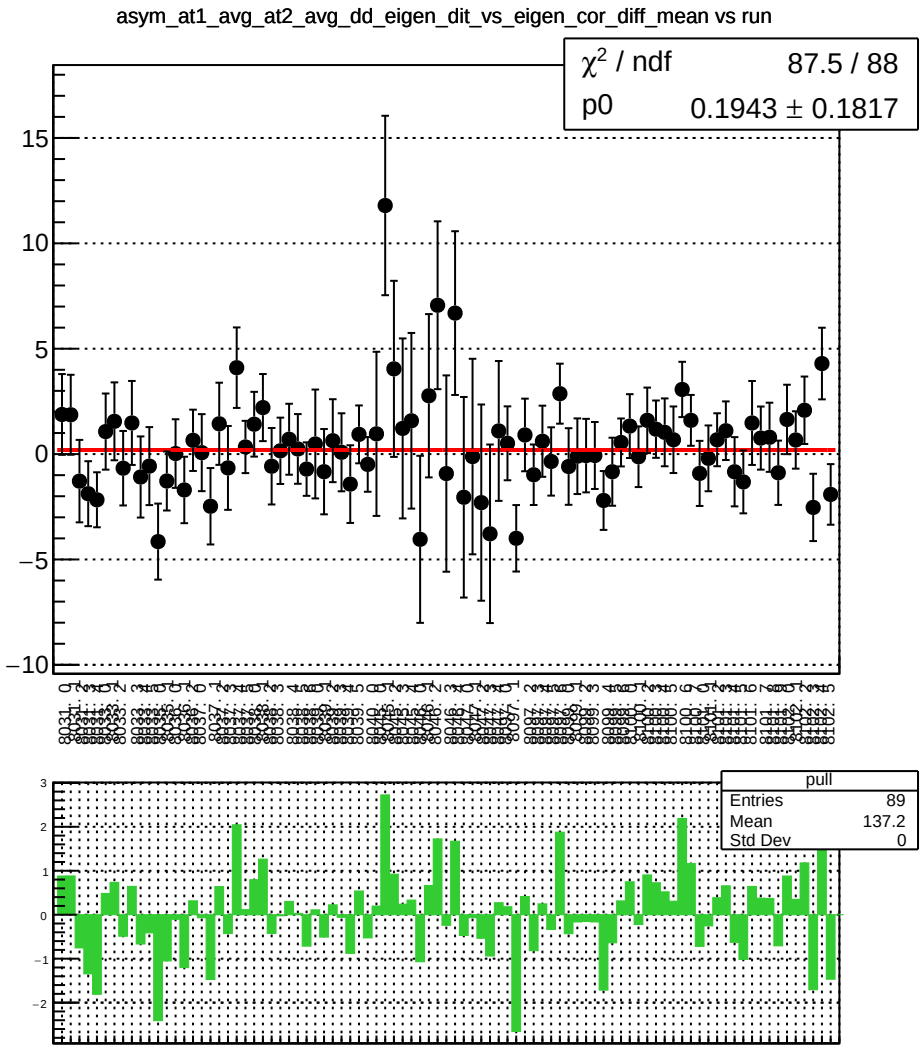

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.12 / 88
p0 −9.085e−06 ± 1.664e−05
pull
Entries 89
Mean −258.4
Std Dev 0
pull1D
Entries 89
Mean −0.006481
Std Dev 1.012

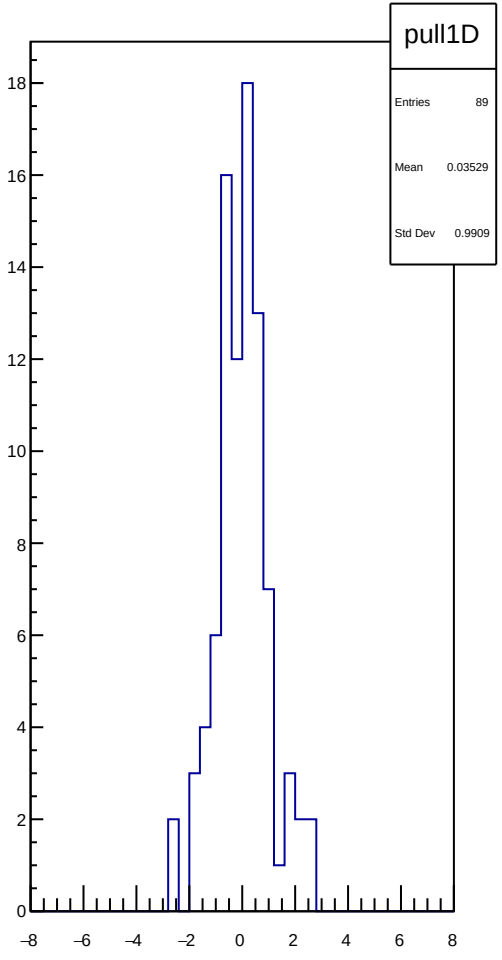

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2704 / 88
p0 0.01554 ± 1.176e−05
0.0175
0.017
0.0165
0.016
0.0155
0.015
0.0145
0.014

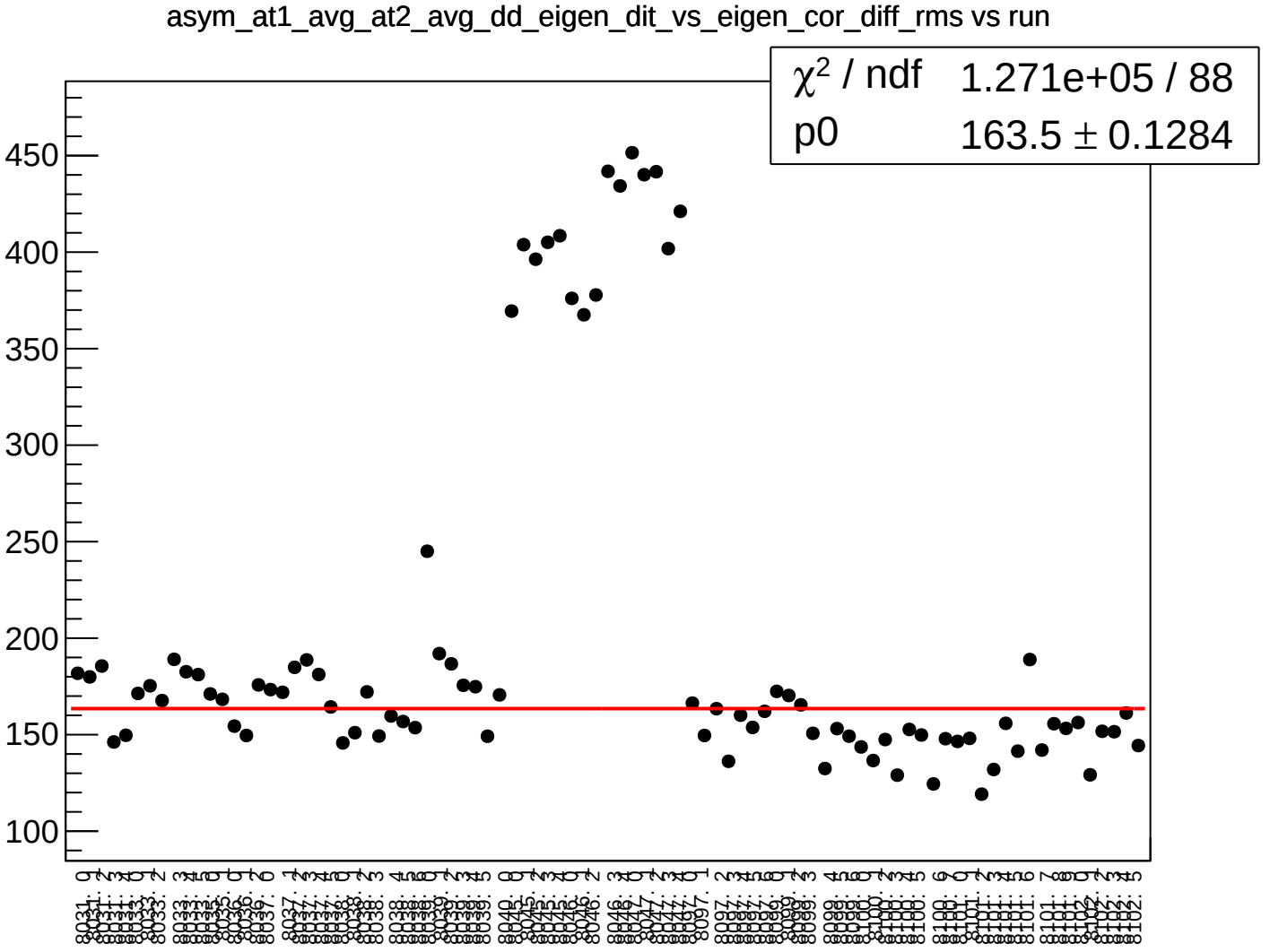

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.5 / 88
p0 0.1943 ± 0.1817
pull
Entries 89
Mean 137.2
Std Dev 0

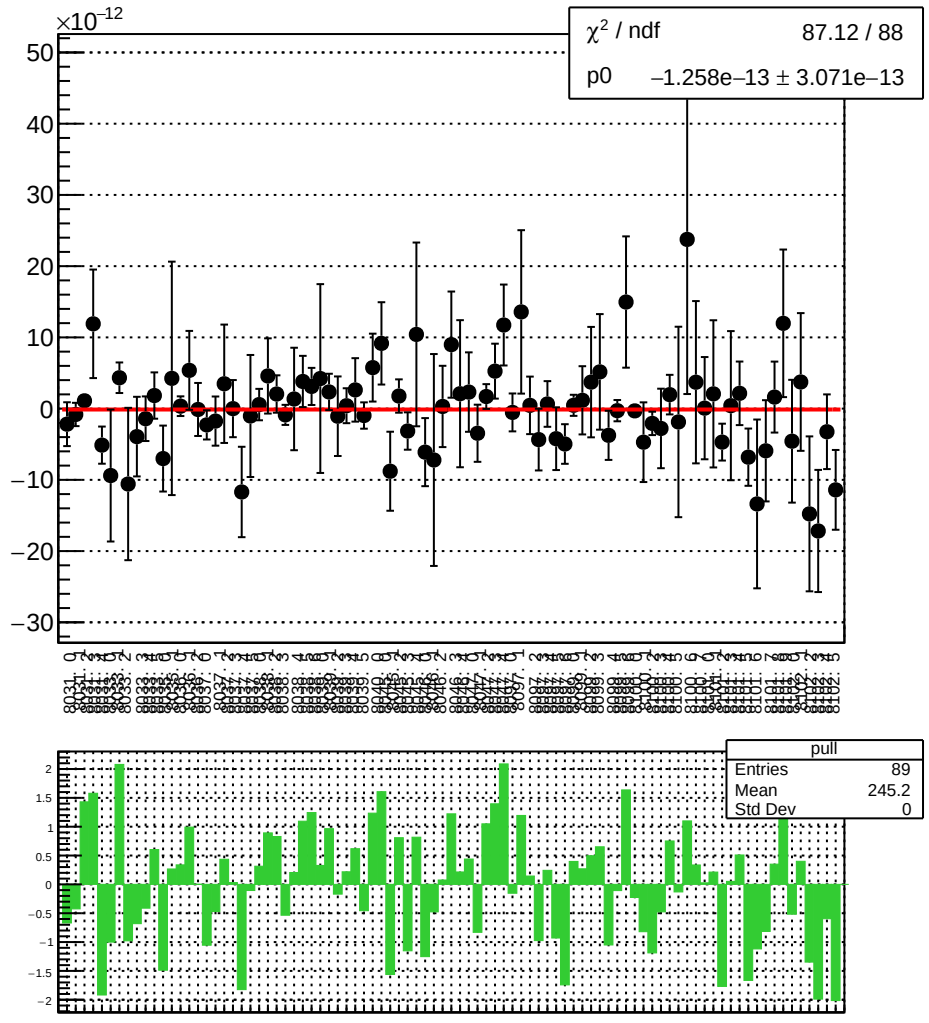

pull1D
Entries 89
Mean 0.03529
Std Dev 0.9909

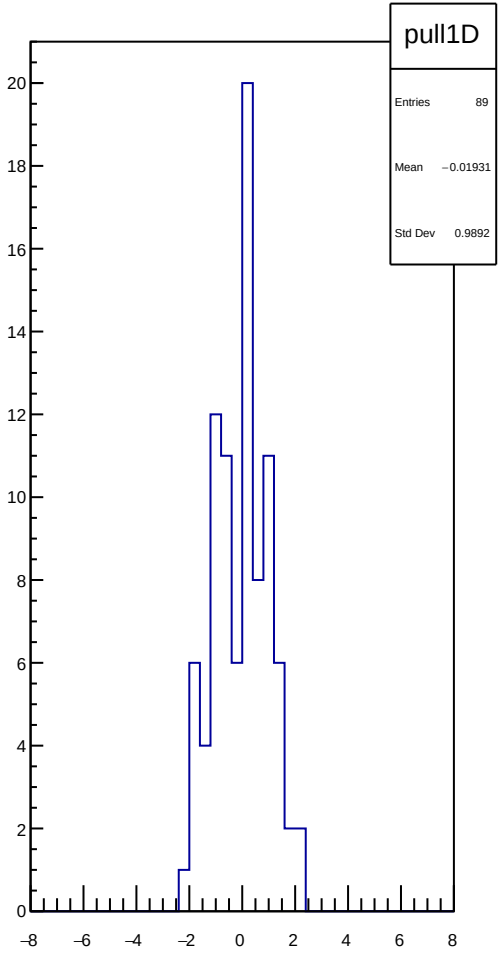

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.271e+05 / 88
p0 163.5 ± 0.1284
450
400
350
300
250
200
150
100

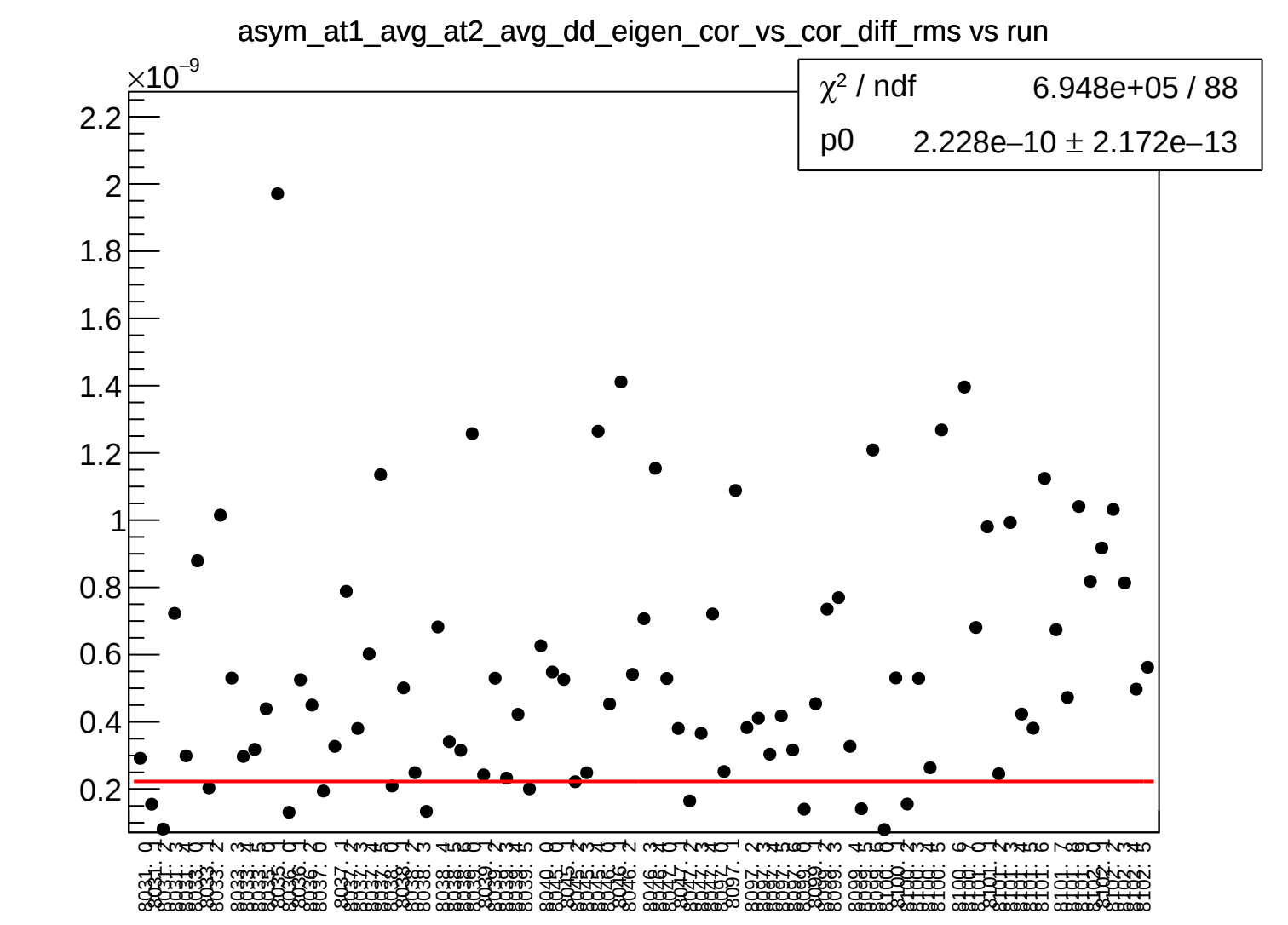

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.5 / 88
p0 0.1943 ± 0.1817
pull
Entries 89
Mean 137.2
Std Dev 0

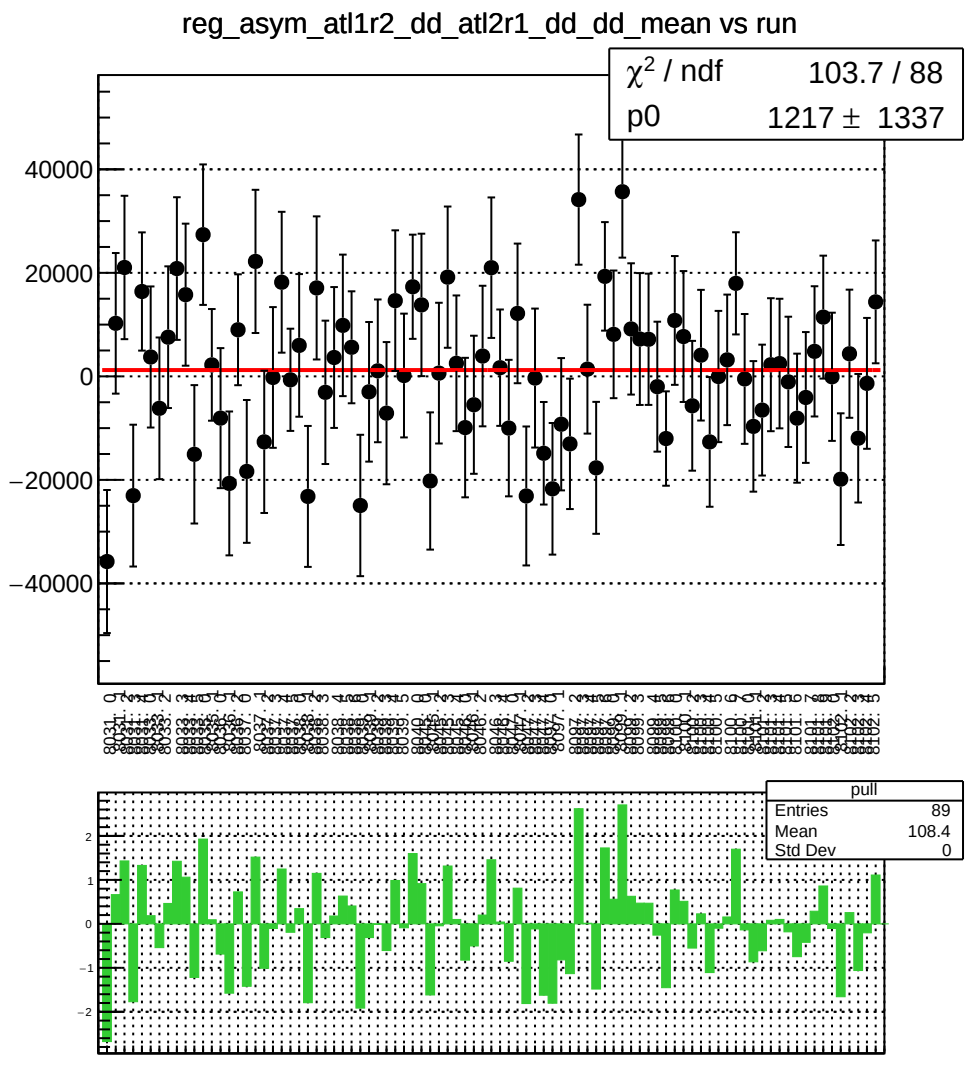

pull1D
Entries 89
Mean 0.03529
Std Dev 0.9909

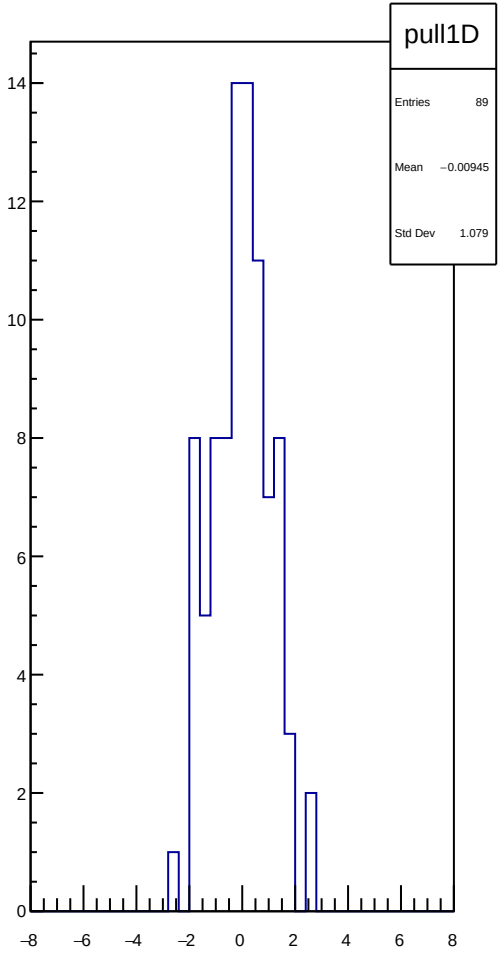

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.271e+05 / 88
p0 163.5 ± 0.1284
450
400
350
300
250
200
150
100

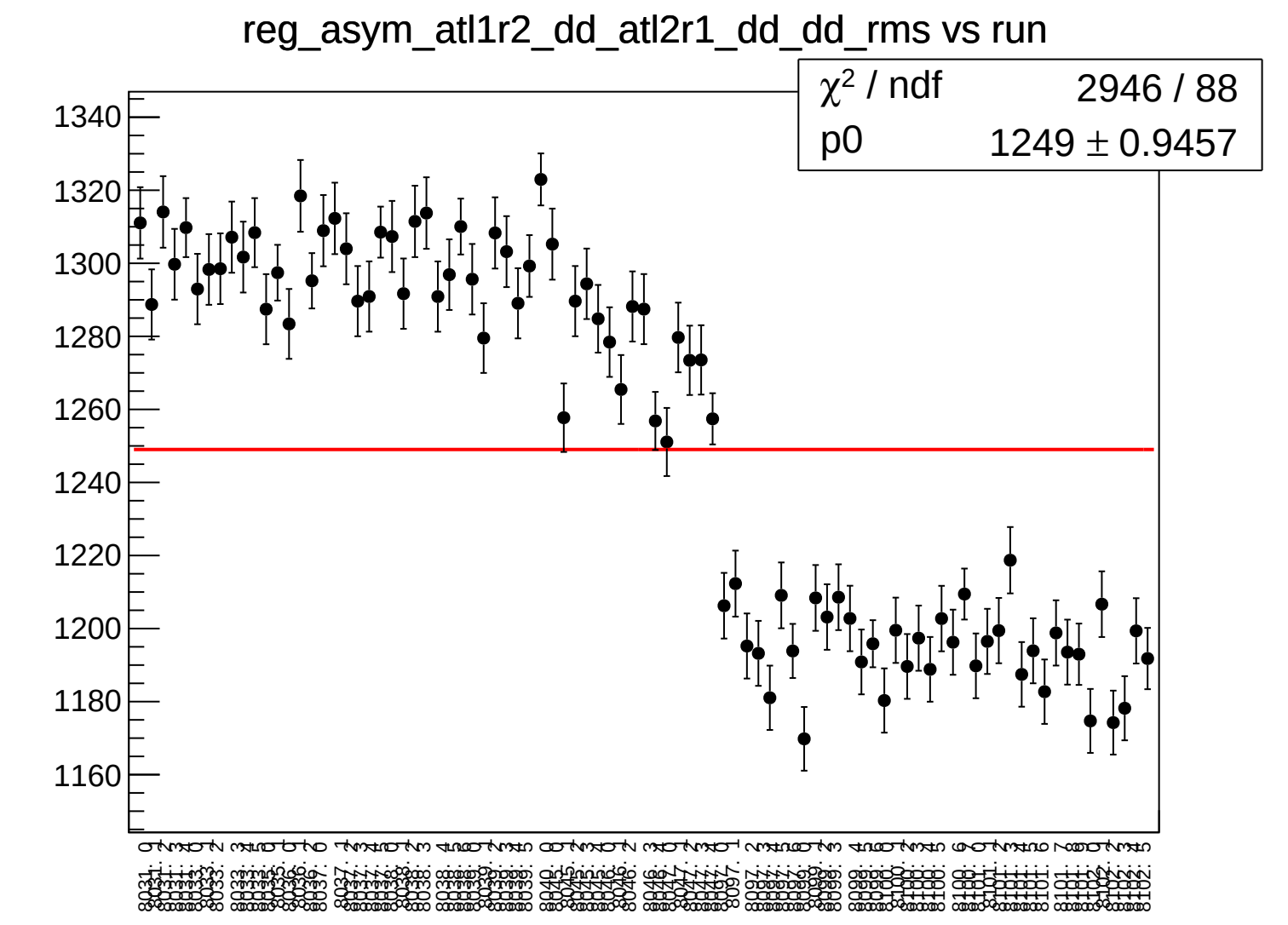

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.12 / 88
p0 −1.258e−13 ± 3.071e−13
pull
Entries 89
Mean 245.2
Std Dev 0

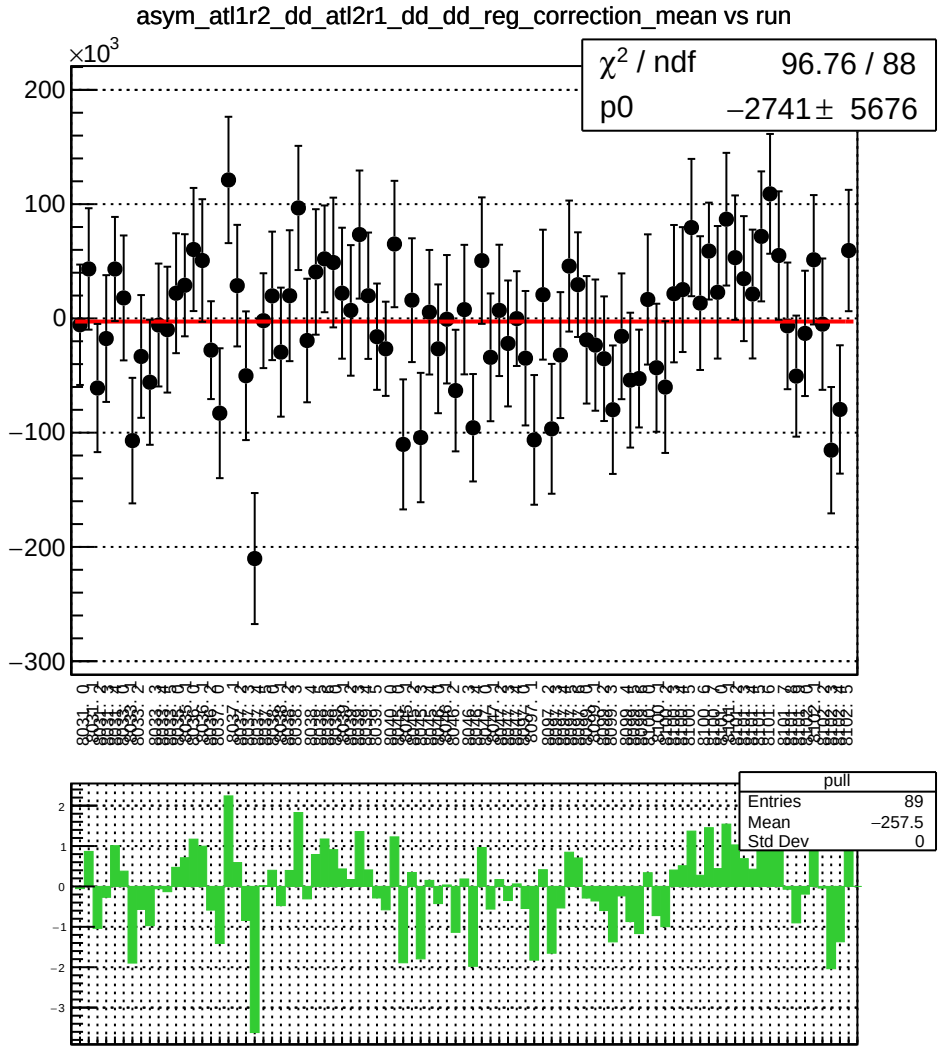

pull1D
Entries 89
Mean −0.01931
Std Dev 0.9892

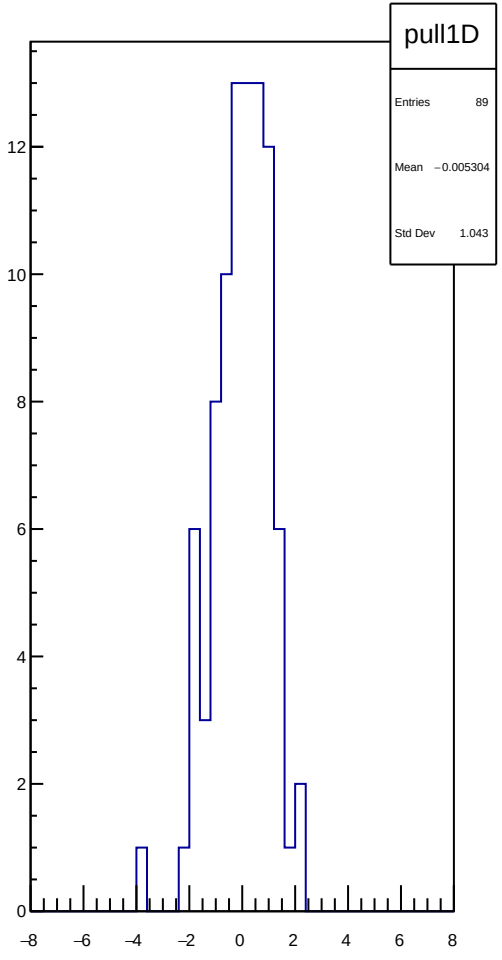

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.948e+05 / 88
p0 2.228e−10 ± 2.172e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

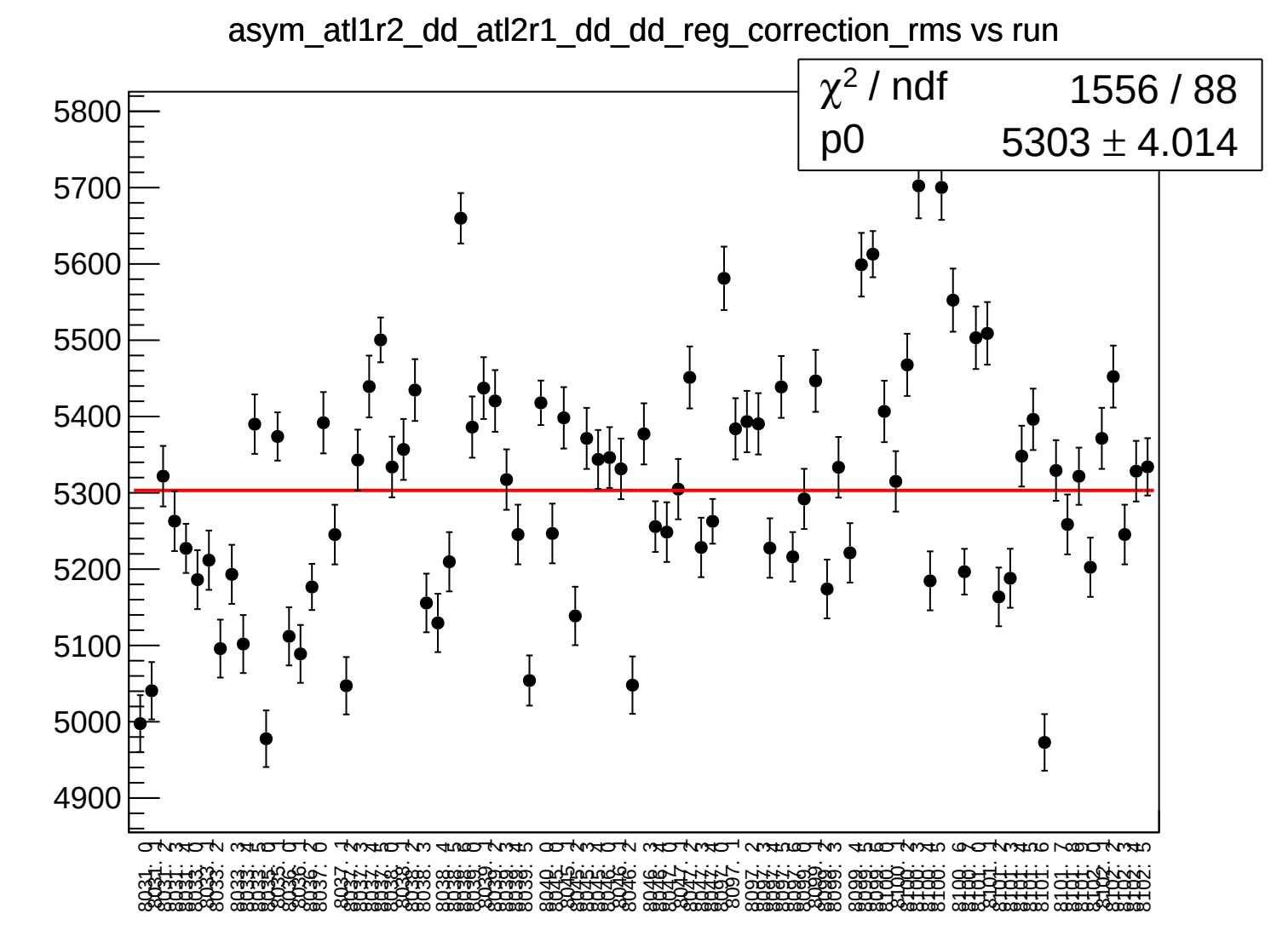

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 103.7 / 88
p0 1217 ± 1337
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 108.4
Std Dev 0
2
1
0
−1
−2

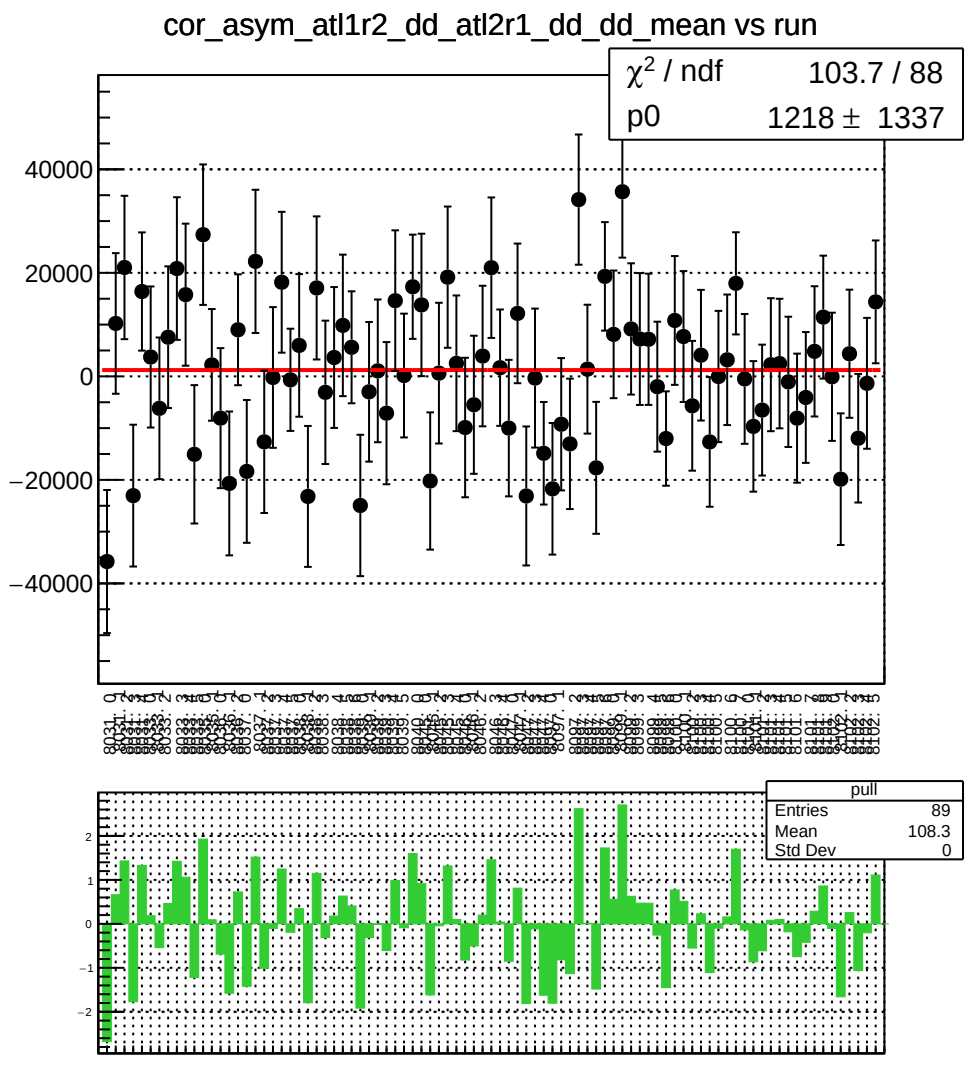

pull1D
Entries 89
Mean −0.00945
Std Dev 1.079
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

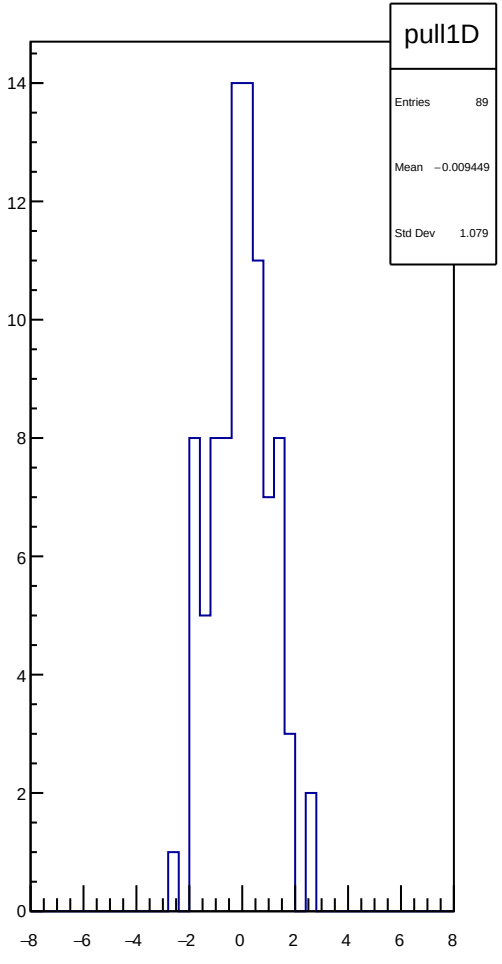

reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 2946 / 88
p0 1249 ± 0.9457
1340
1320
1300
1280
1260
1240
1220
1200
1180
1160

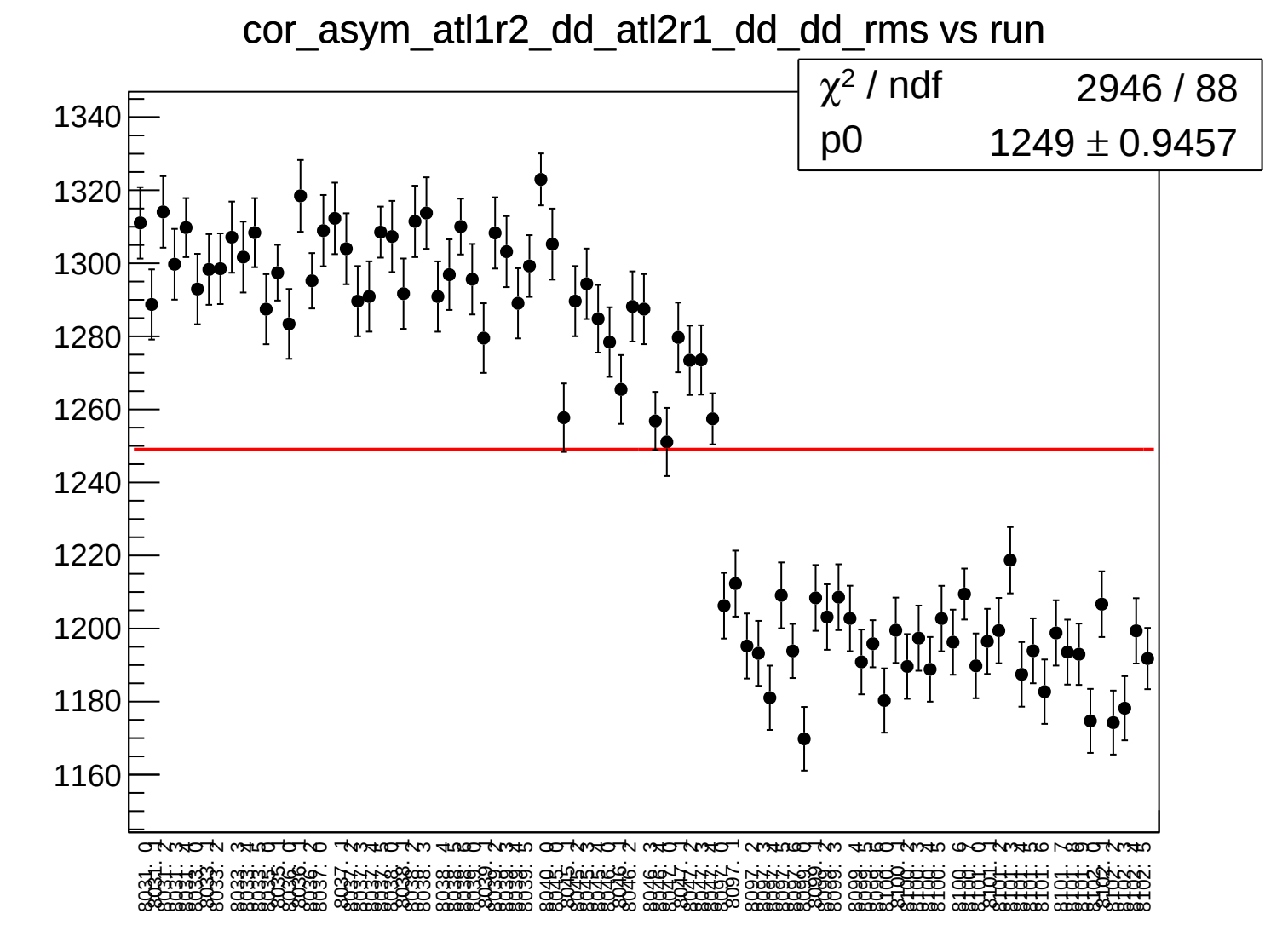

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 96.76 / 88
p0 −2741 ± 5676
200
100
0
−100
−200
−300
pull
Entries 89
Mean −257.5
Std Dev 0
2
1
0
−1
−2
−3

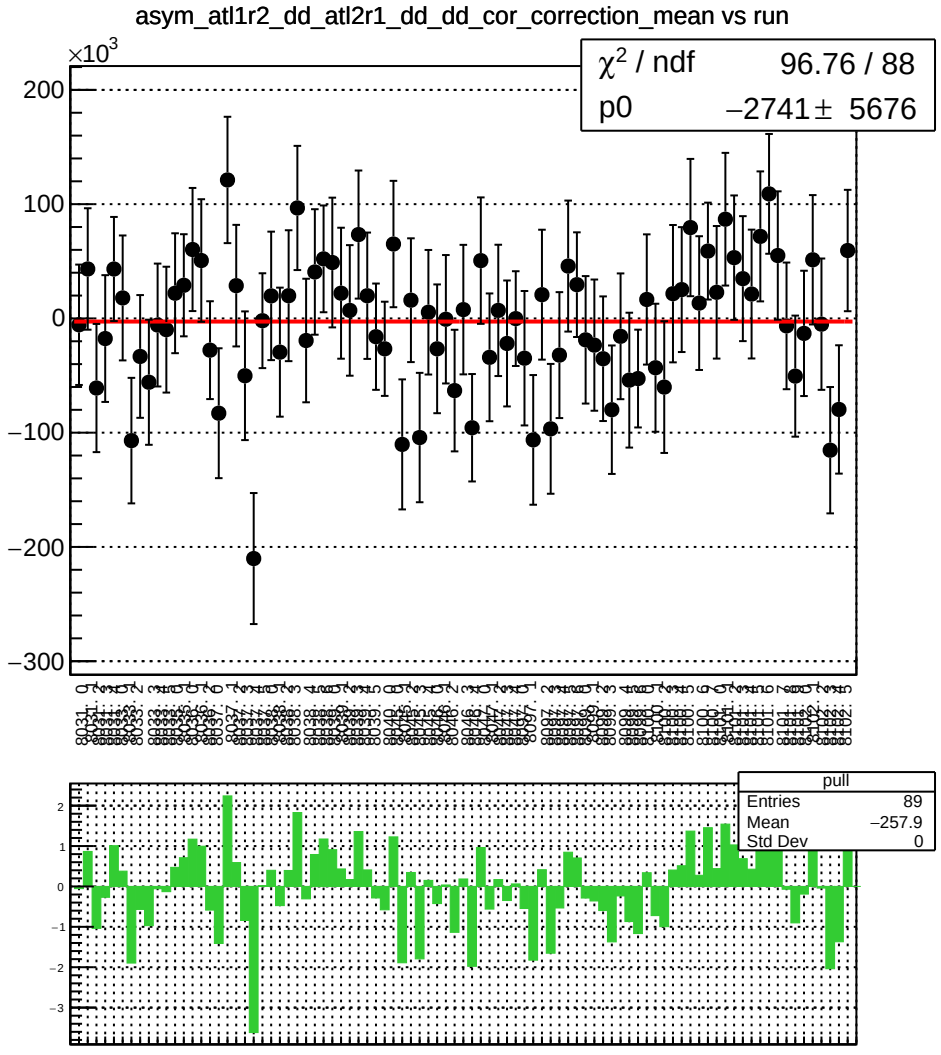

pull1D
Entries 89
Mean −0.005304
Std Dev 1.043
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

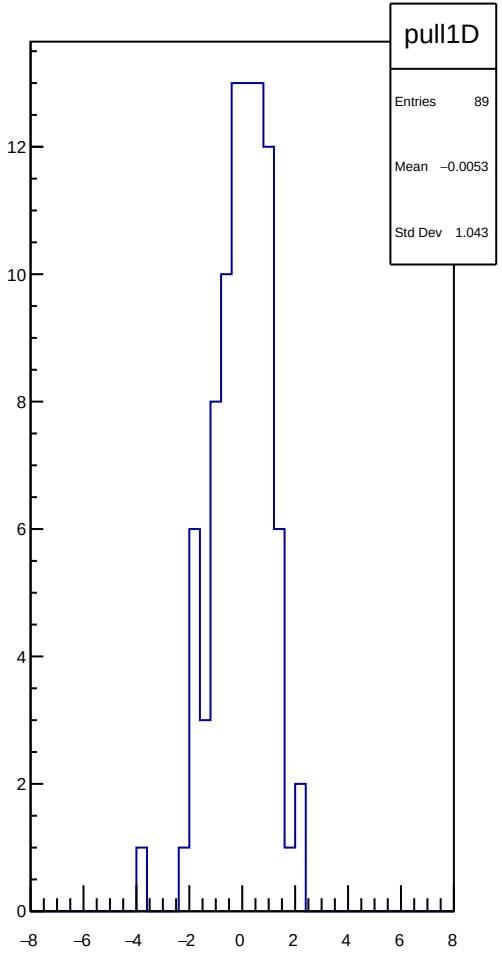

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 1556 / 88
p0 5303 ± 4.014
5800
5700
5600
5500
5400
5300
5200
5100
5000
4900

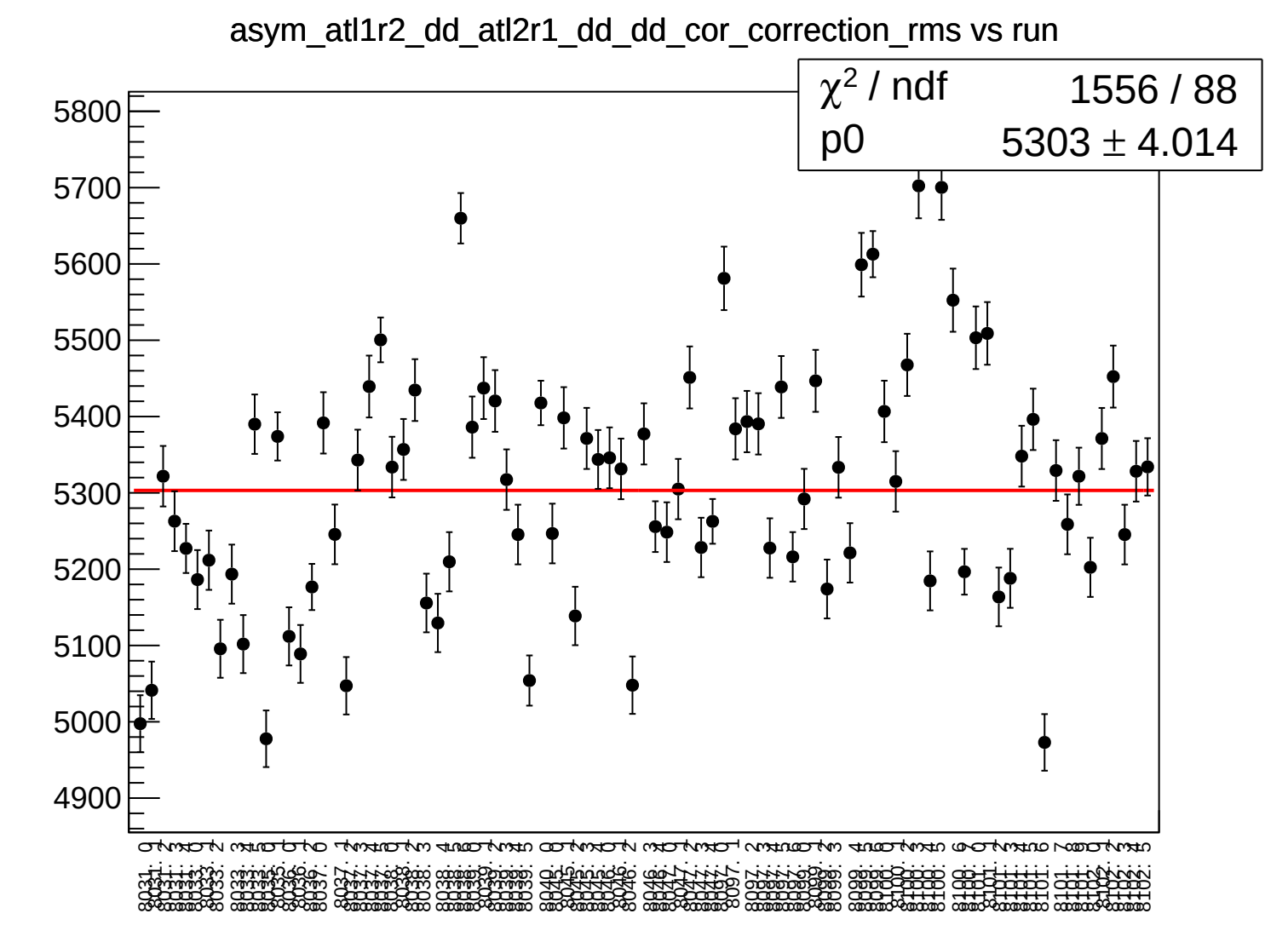

cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 103.7 / 88
p0 1218 ± 1337
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 108.3
Std Dev 0
2
1
0
−1
−2

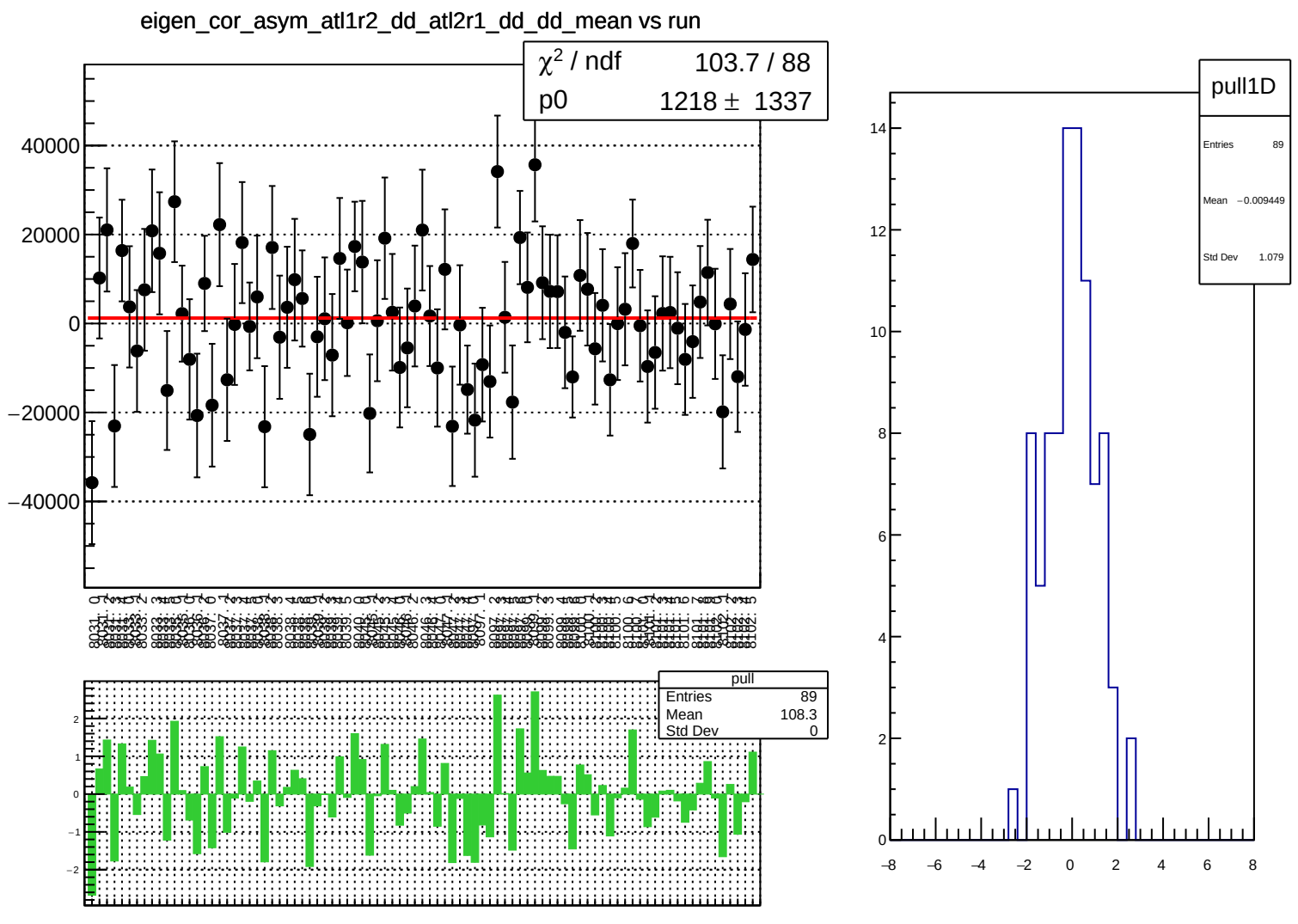

pull1D
Entries 89
Mean −0.009449
Std Dev 1.079
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

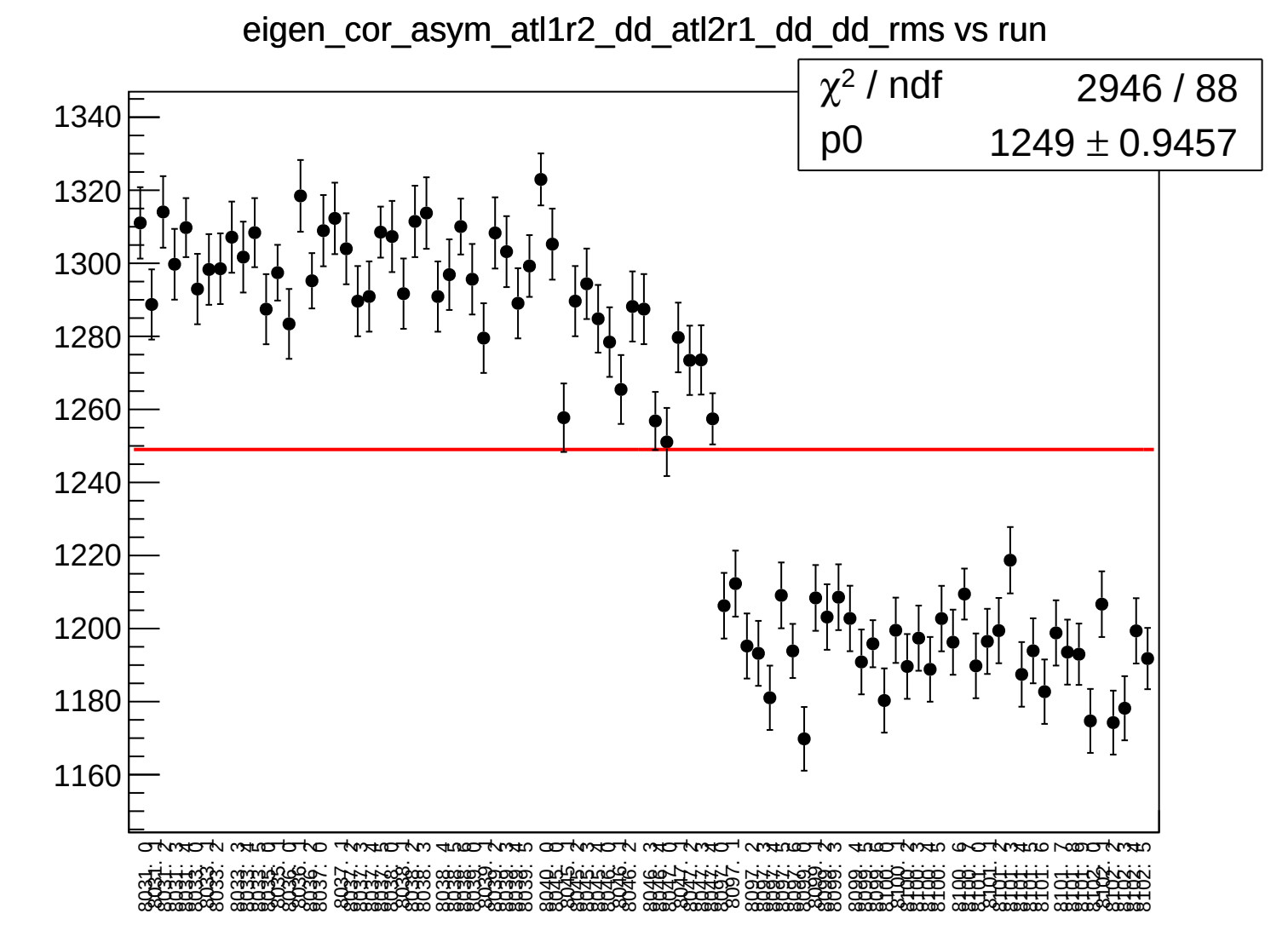

cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 2946 / 88
p0 1249 ± 0.9457
1340
1320
1300
1280
1260
1240
1220
1200
1180
1160

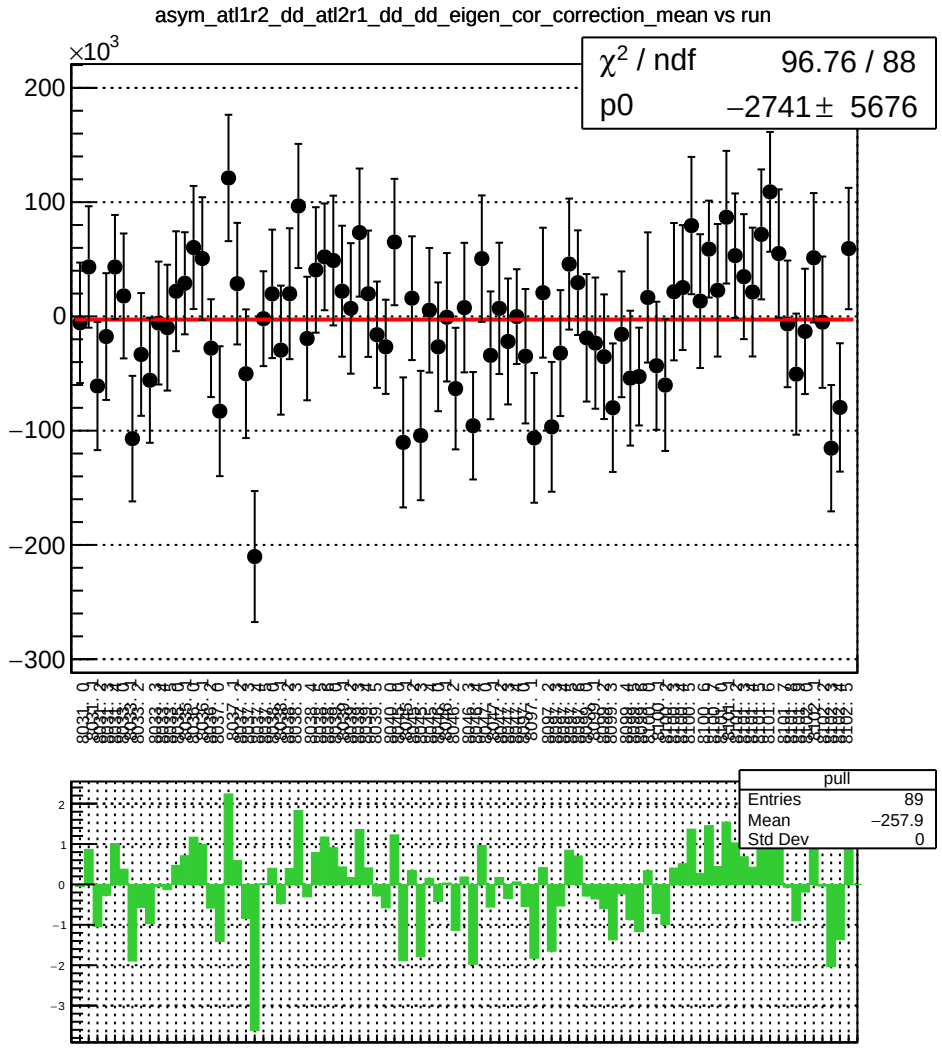

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
×10^3
χ² / ndf 96.76 / 88
p0 −2741 ± 5676
200
100
0
−100
−200
−300
pull
Entries 89
Mean −257.9
Std Dev 0
2
1
0
−1
−2
−3

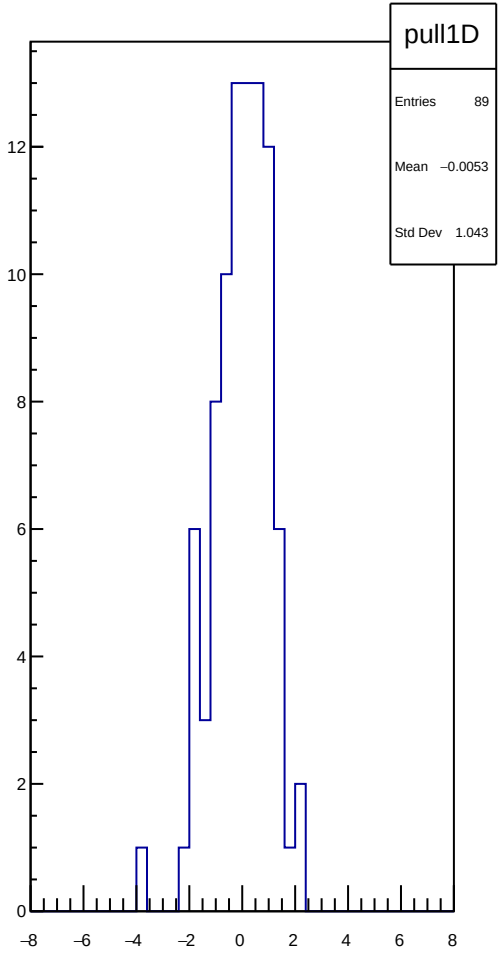

pull1D
Entries 89
Mean −0.0053
Std Dev 1.043
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

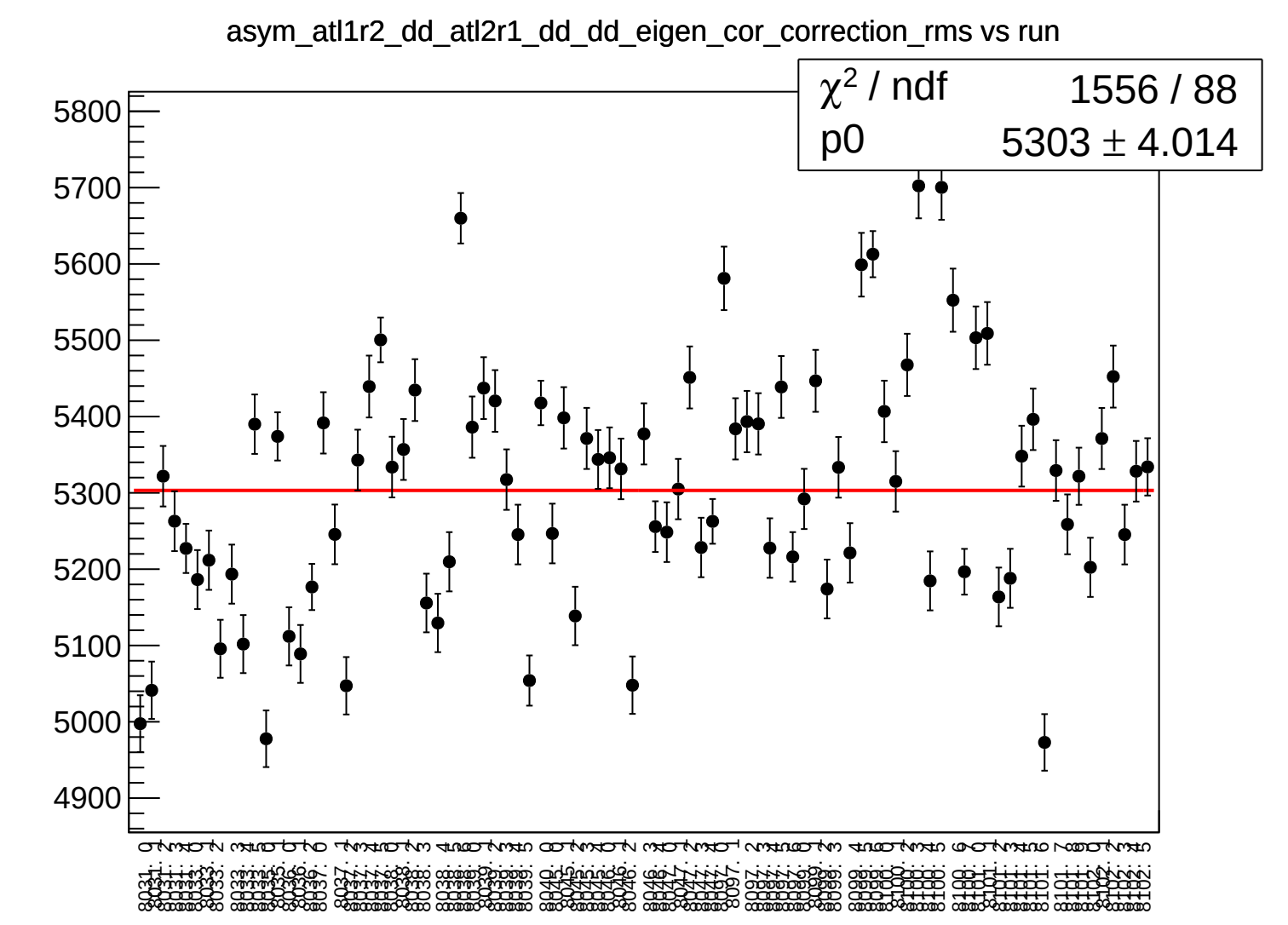

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 1556 / 88
p0 5303 ± 4.014
5800
5700
5600
5500
5400
5300
5200
5100
5000
4900

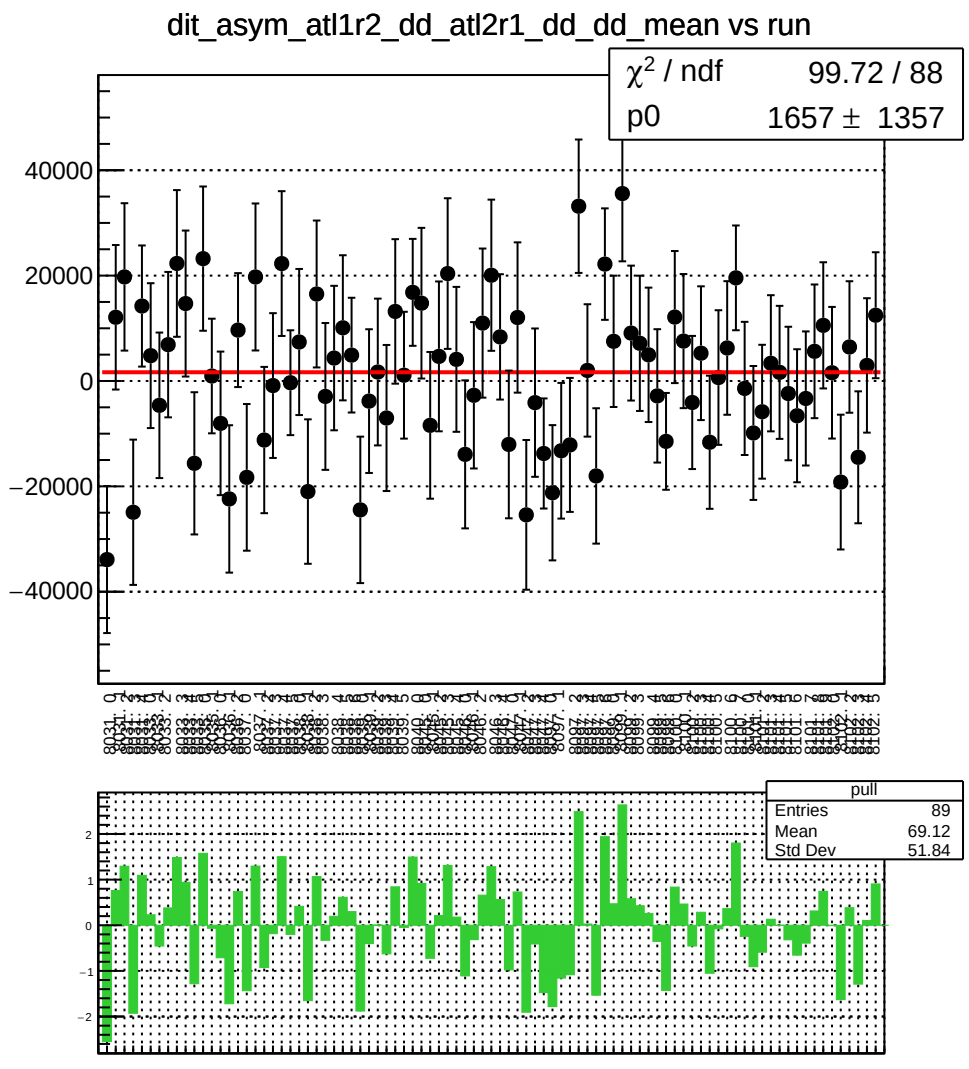

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 103.7 / 88
p0 1218 ± 1337
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 108.3
Std Dev 0
pull1D
Entries 89
Mean −0.009449
Std Dev 1.079

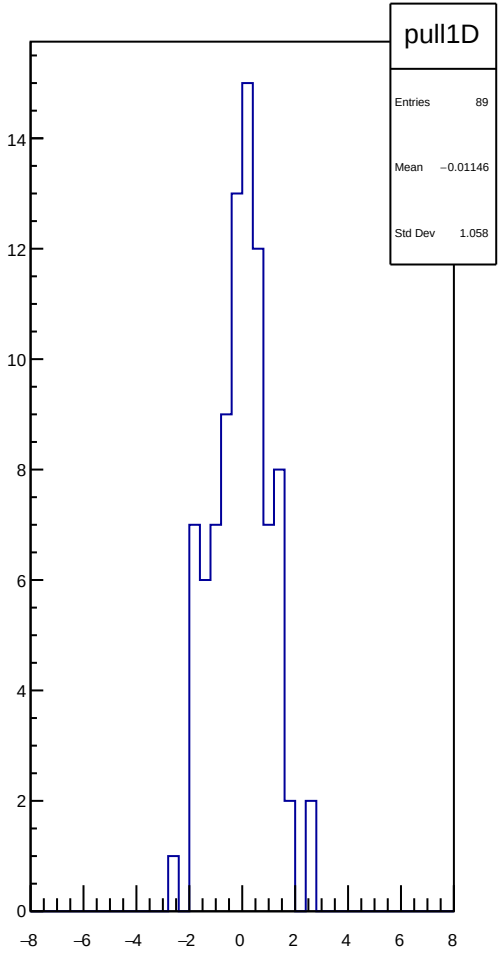

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 2946 / 88
p0 1249 ± 0.9457
1340
1320
1300
1280
1260
1240
1220
1200
1180
1160

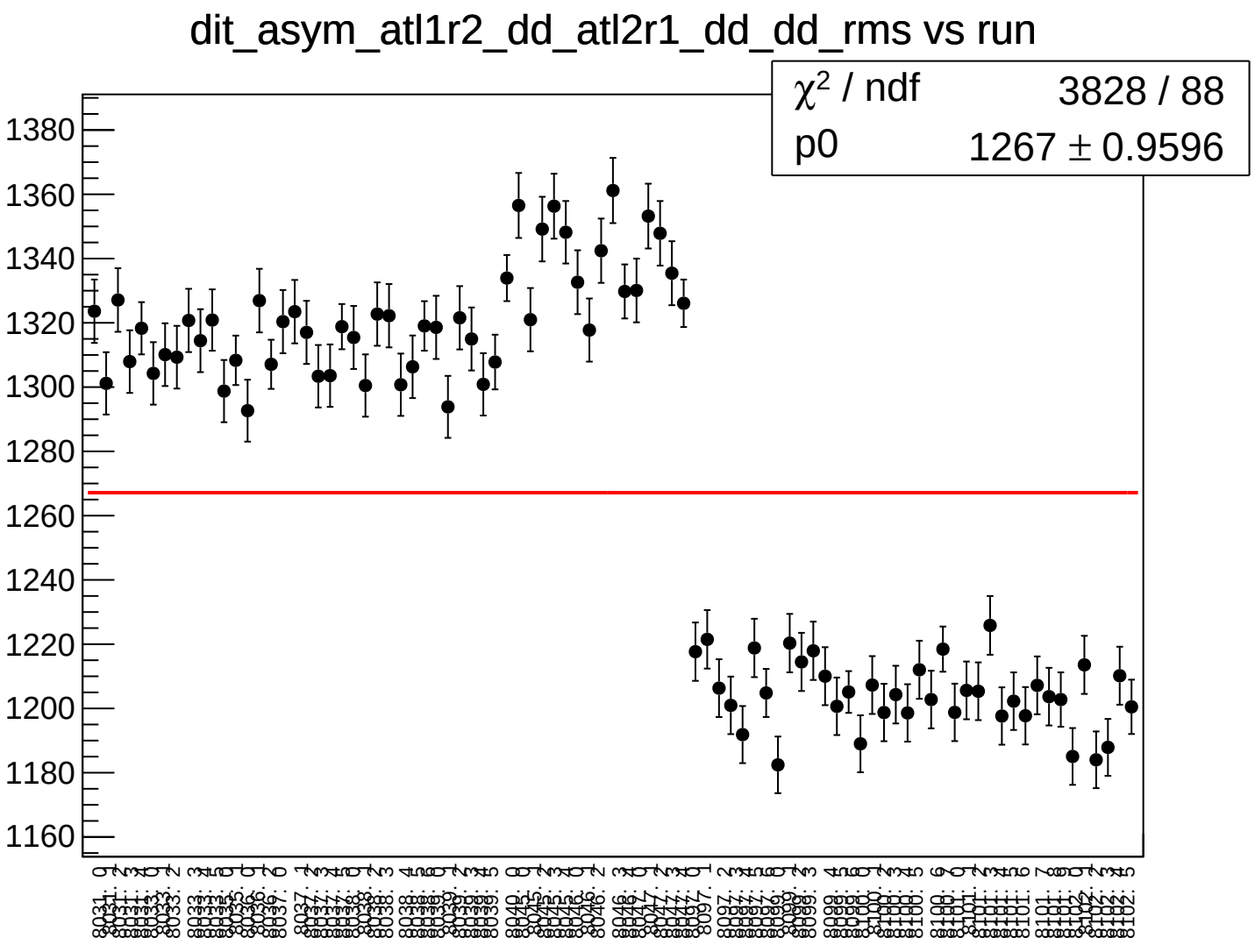

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 96.76 / 88
p0 −2741 ± 5676
pull
Entries 89
Mean −257.9
Std Dev 0

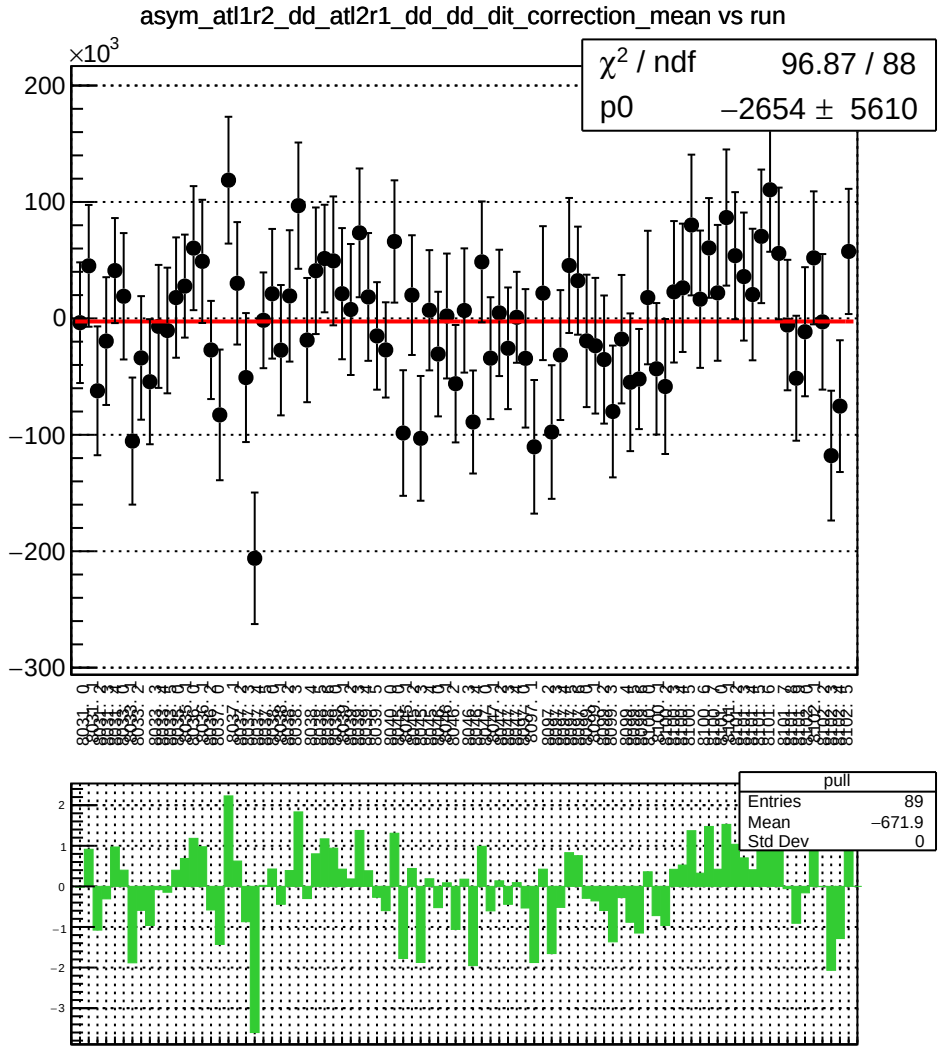

pull1D
Entries 89
Mean −0.0053
Std Dev 1.043

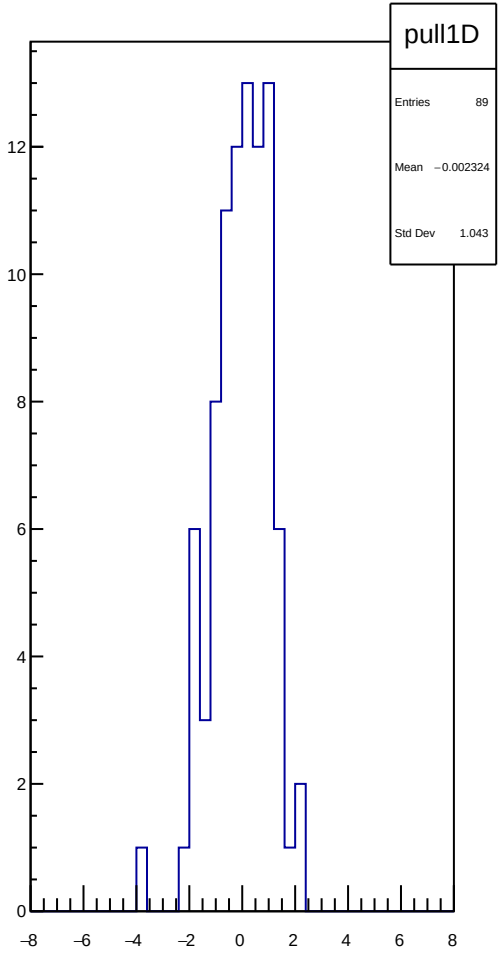

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1556 / 88
p0 5303 ± 4.014
5800
5700
5600
5500
5400
5300
5200
5100
5000
4900

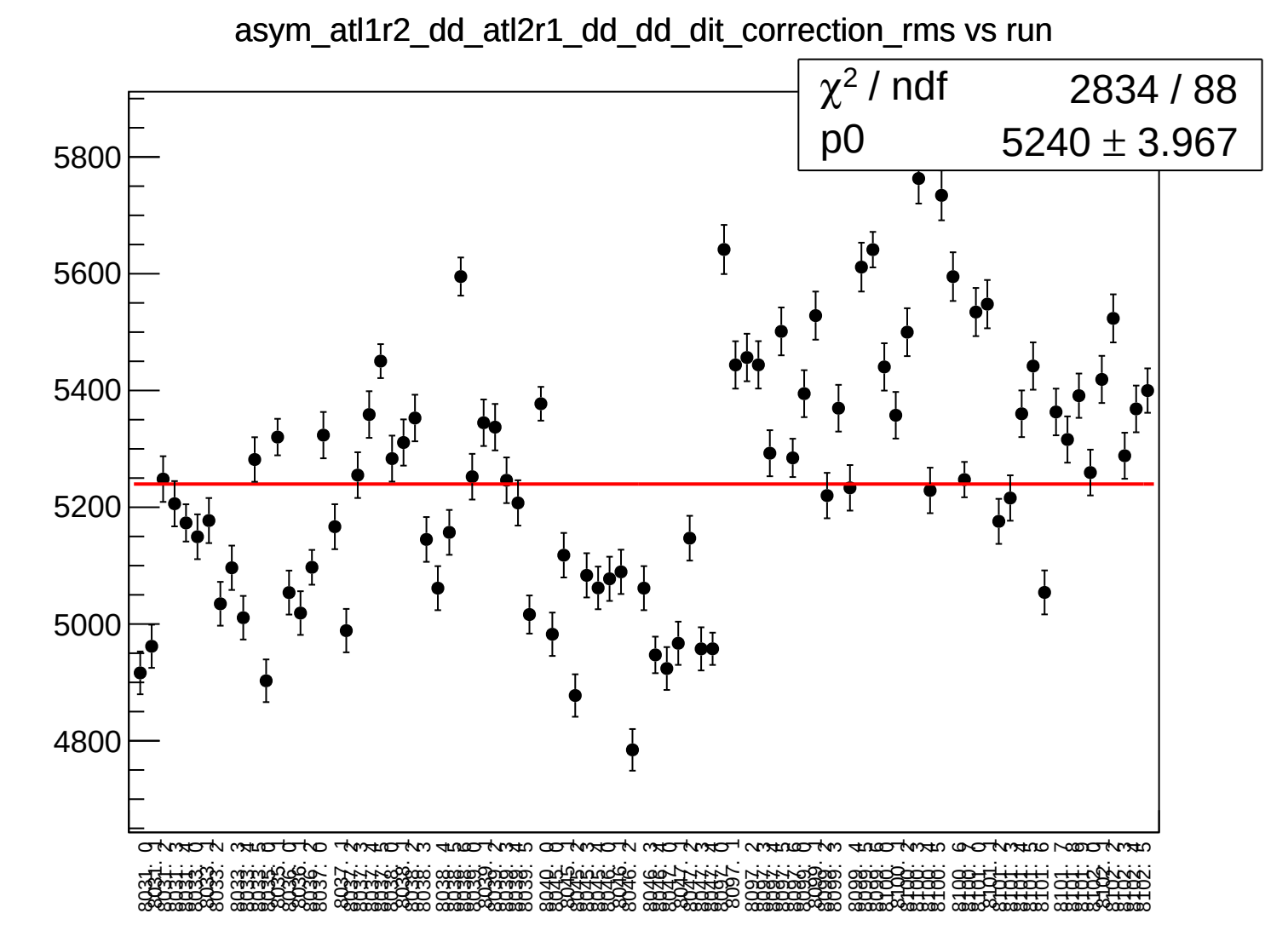

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 99.72 / 88
p0 1657 ± 1357
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 69.12
Std Dev 51.84
2
1
0
−1
−2

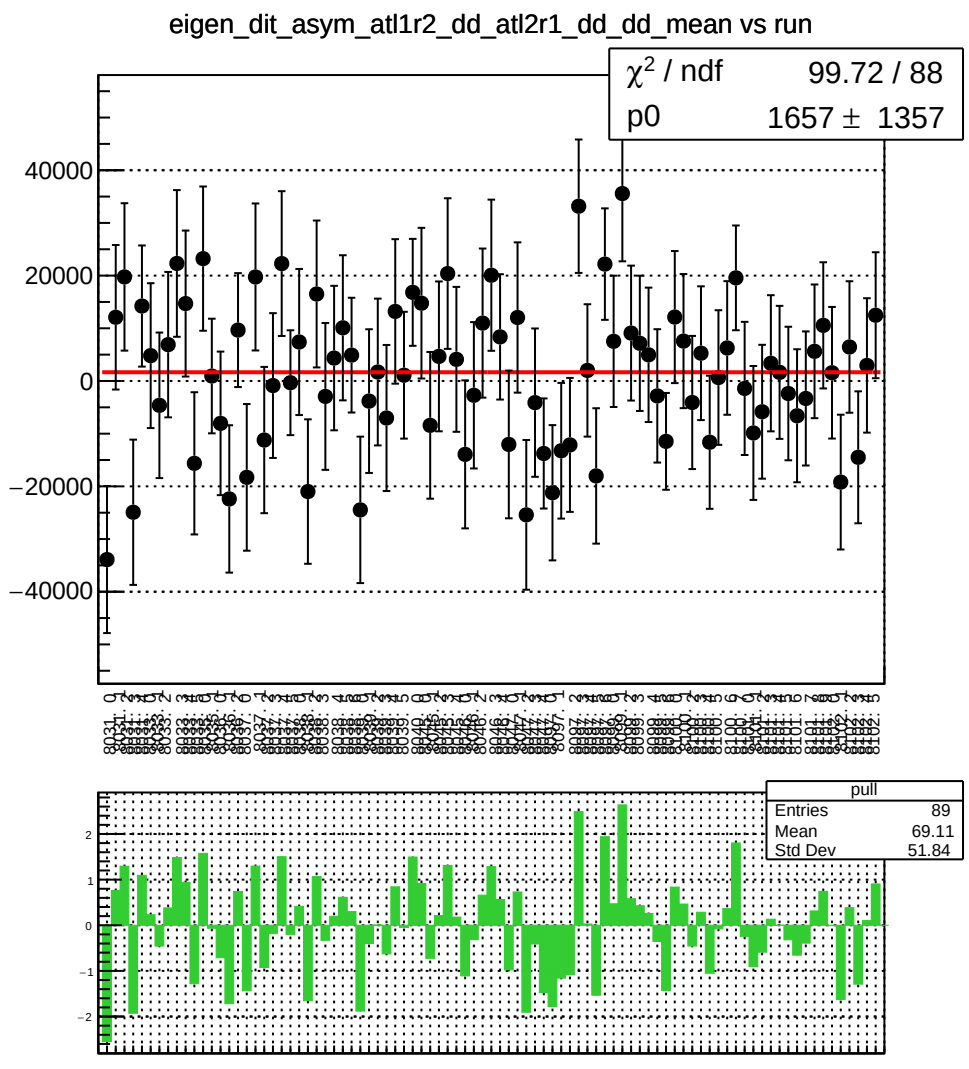

pull1D
Entries 89
Mean −0.01146
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

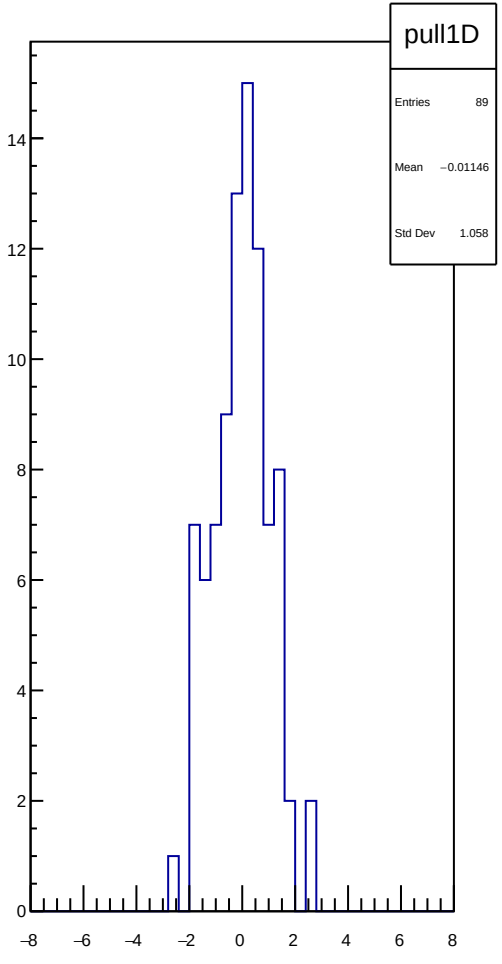

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 3828 / 88
p0 1267 ± 0.9596
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200
1180
1160

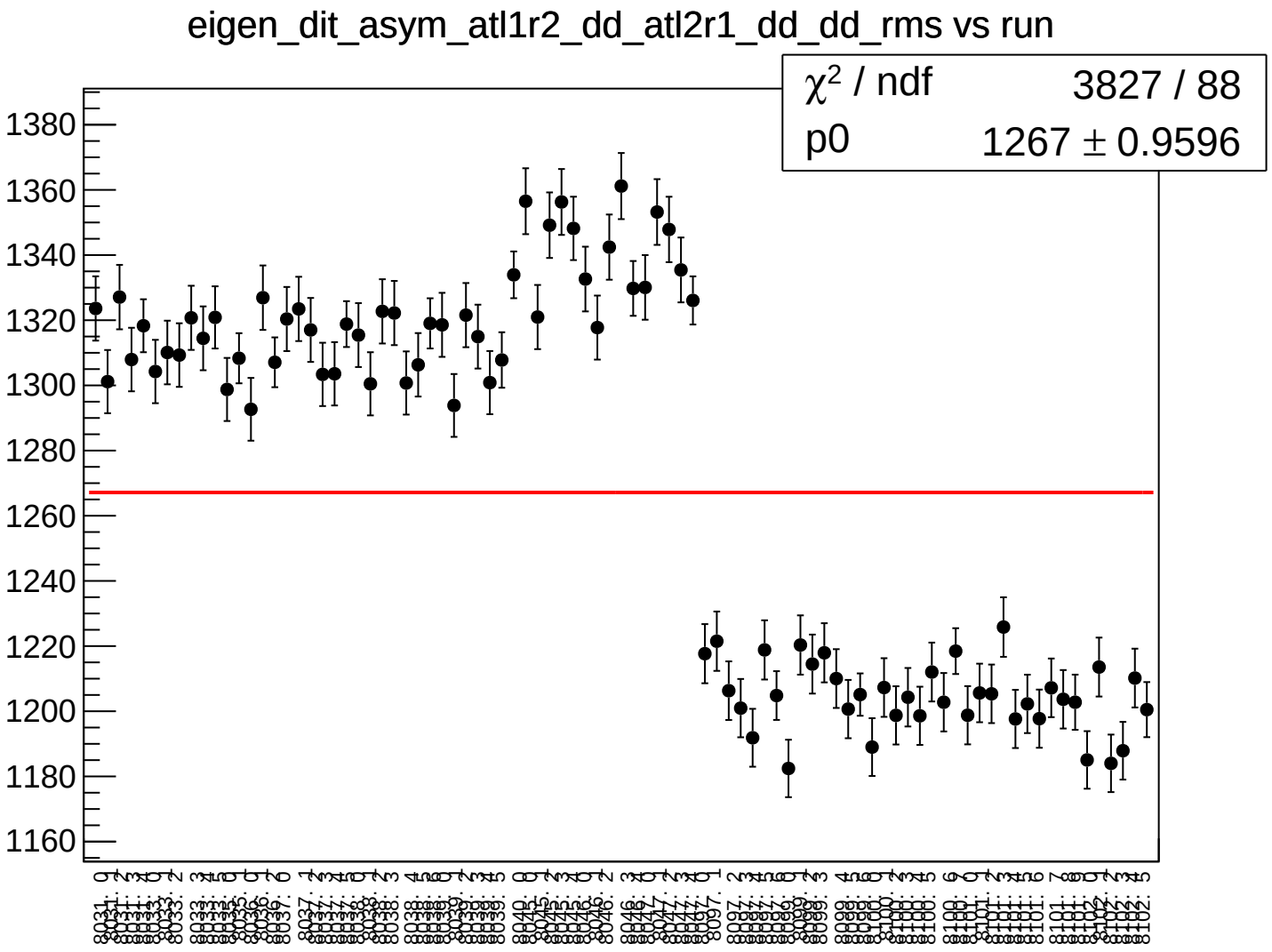

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 96.87 / 88
p0 −2654 ± 5610
200
100
0
−100
−200
−300
pull
Entries 89
Mean −671.9
Std Dev 0
2
1
0
−1
−2
−3

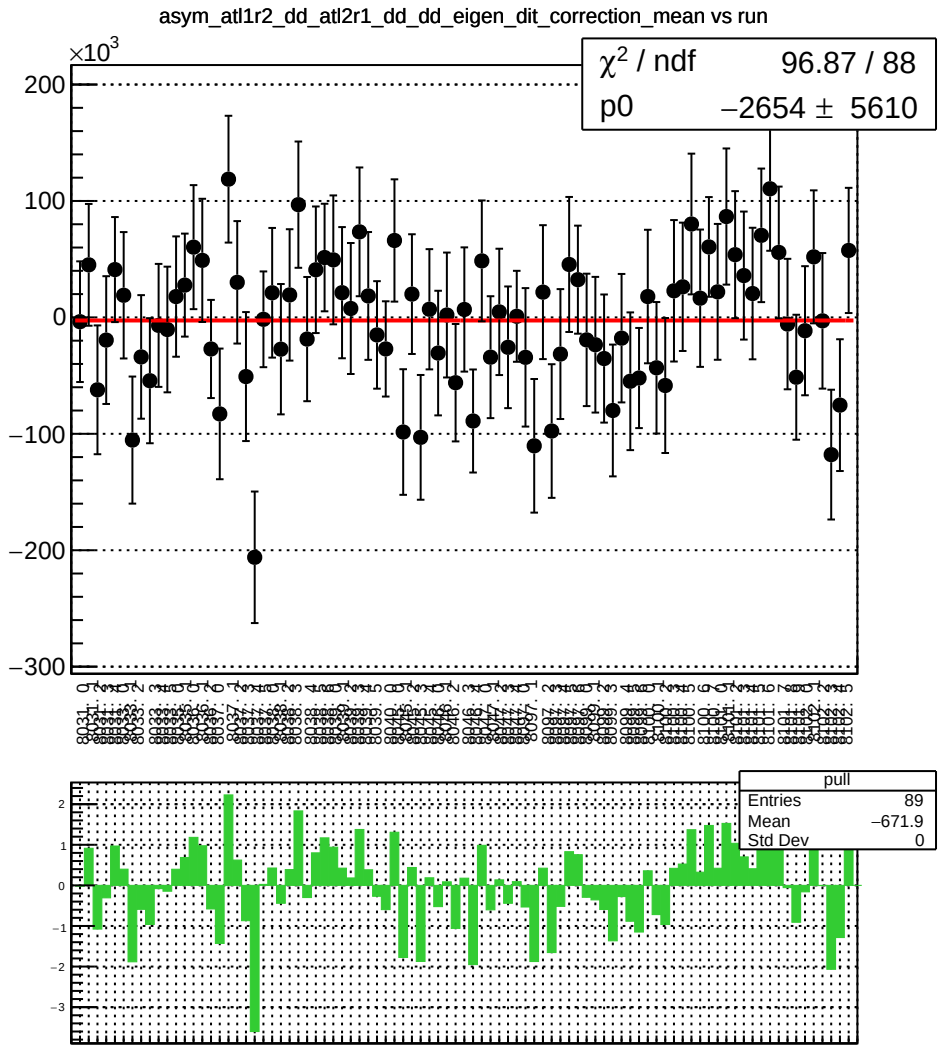

pull1D
Entries 89
Mean −0.002324
Std Dev 1.043
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

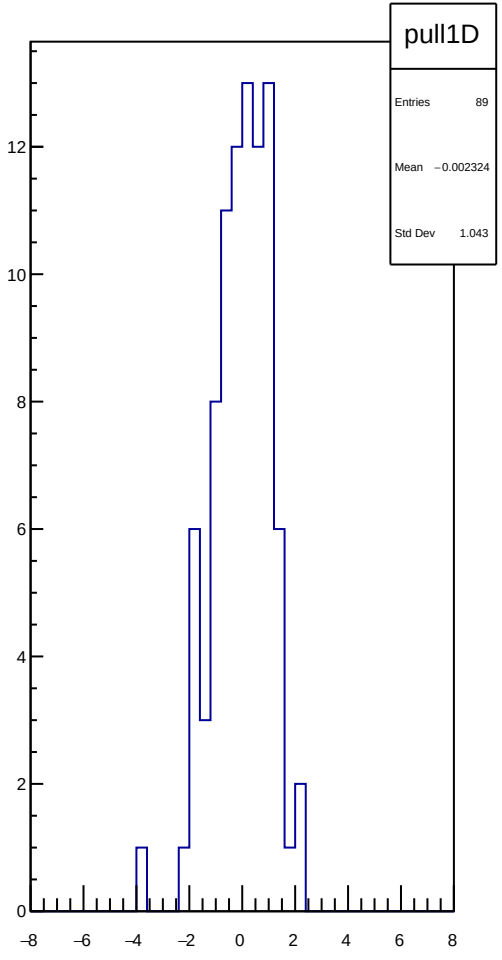

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 2834 / 88
p0 5240 ± 3.967
5800
5600
5400
5200
5000
4800

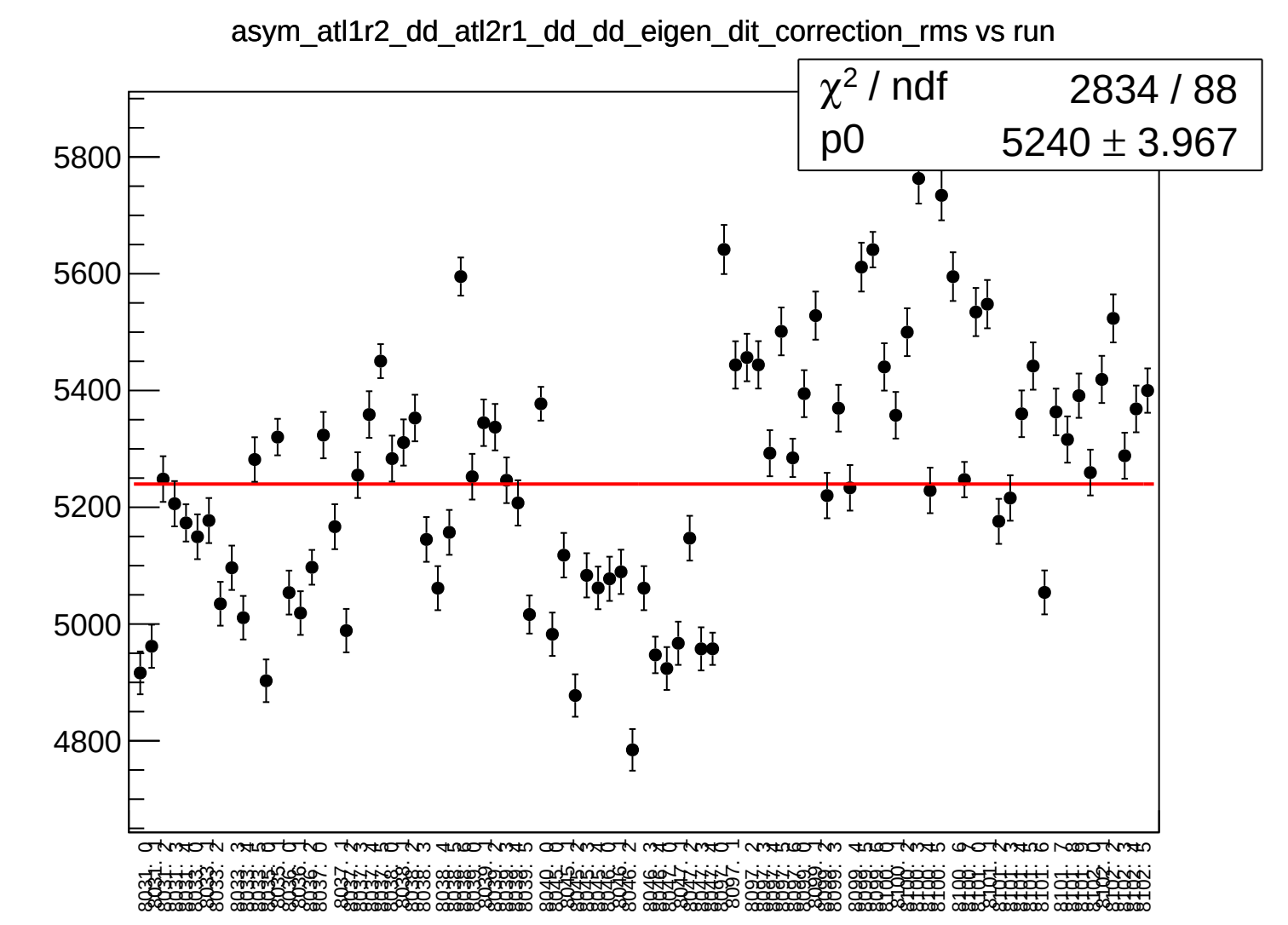

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 99.72 / 88
p0 1657 ± 1357
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 69.11
Std Dev 51.84
2
1
0
−1
−2

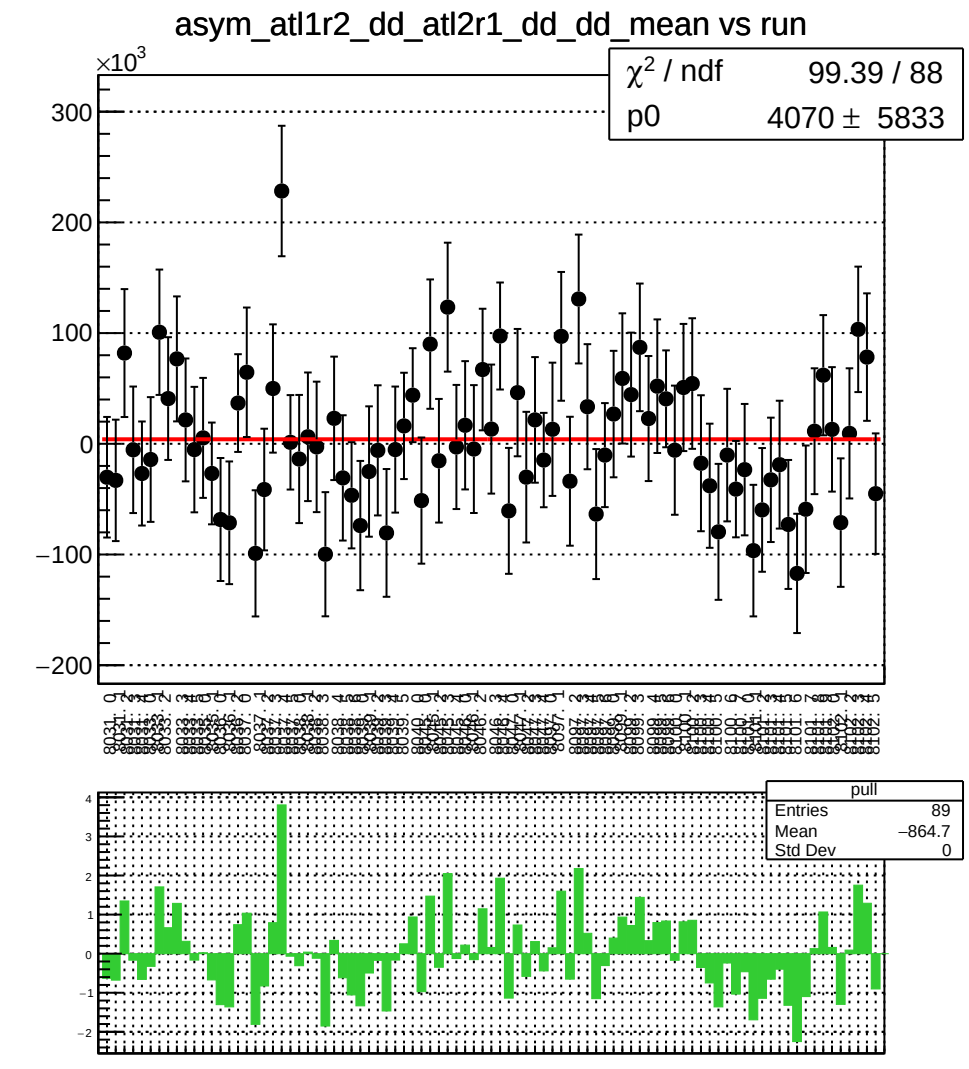

pull1D
Entries 89
Mean −0.01146
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

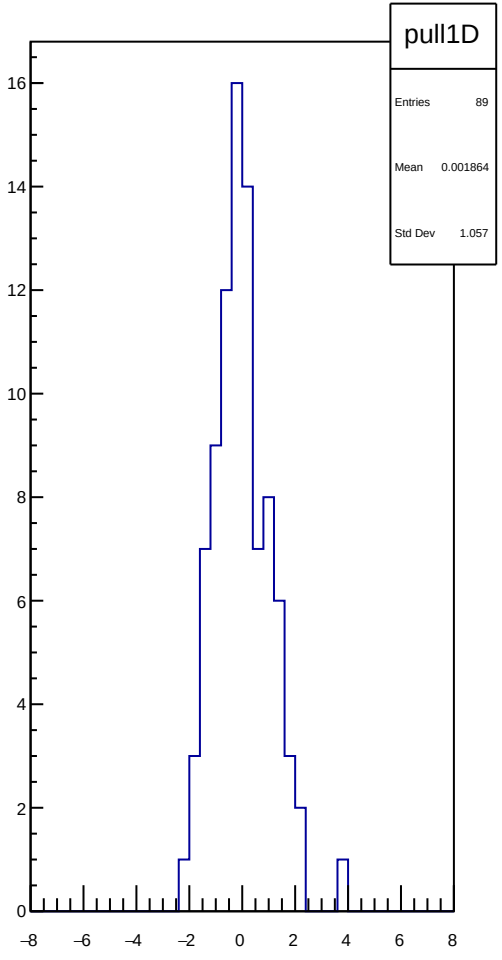

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 3827 / 88
p0 1267 ± 0.9596
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200
1180
1160

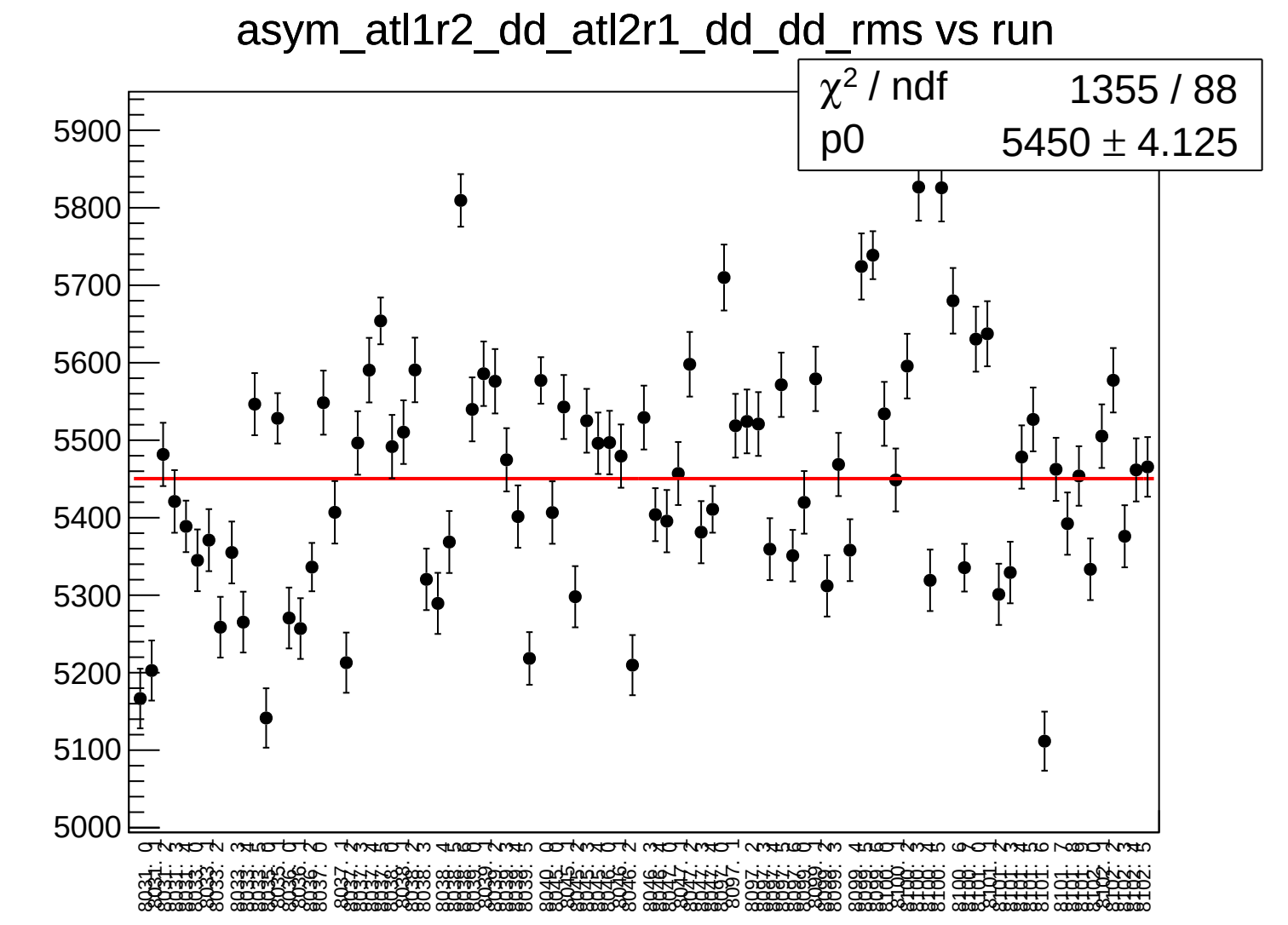

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.87 / 88
p0 −2654 ± 5610
200
100
0
−100
−200
−300
pull
Entries 89
Mean −671.9
Std Dev 0
2
1
0
−1
−2
−3

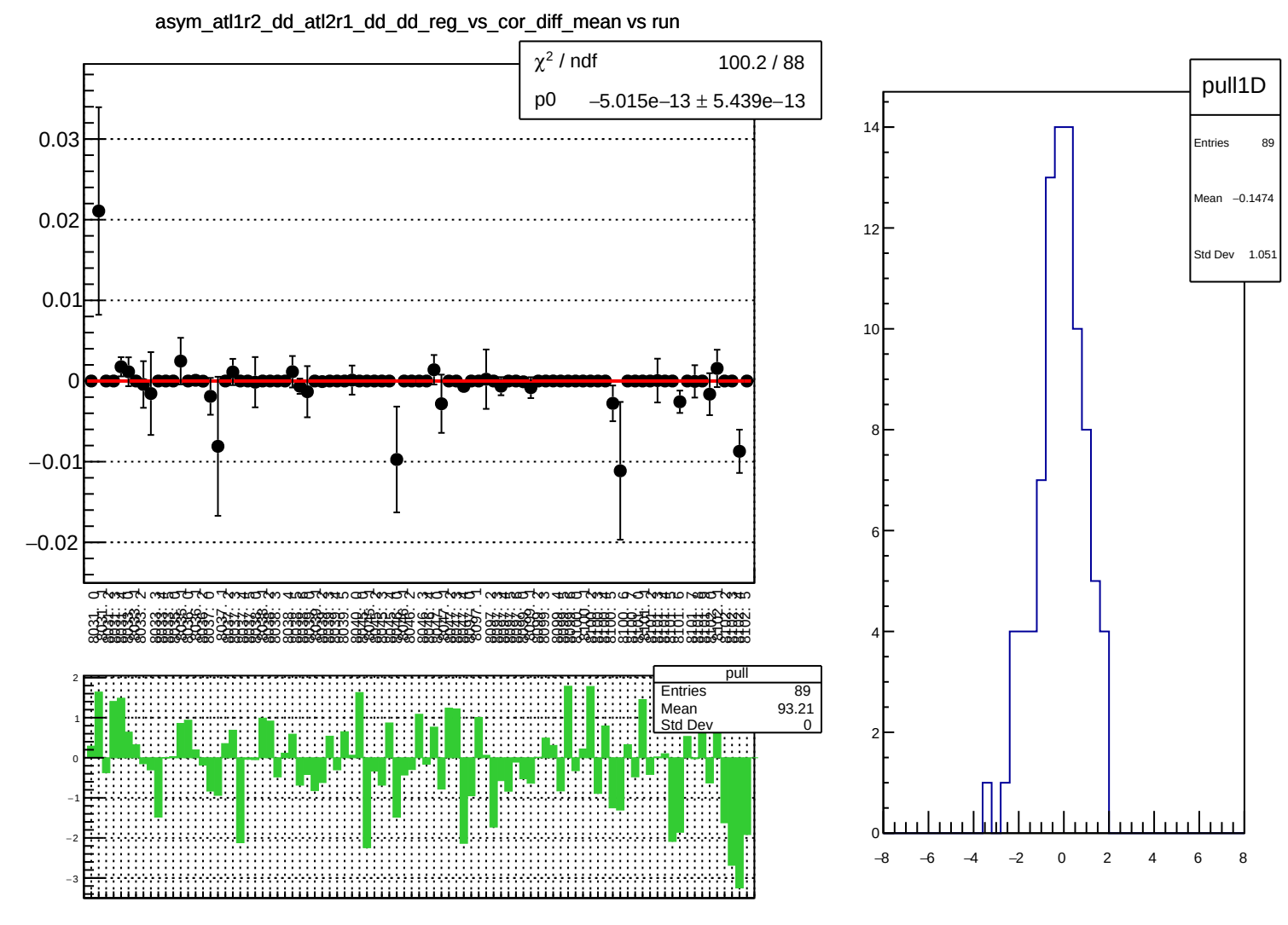

pull1D
Entries 89
Mean −0.002324
Std Dev 1.043
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

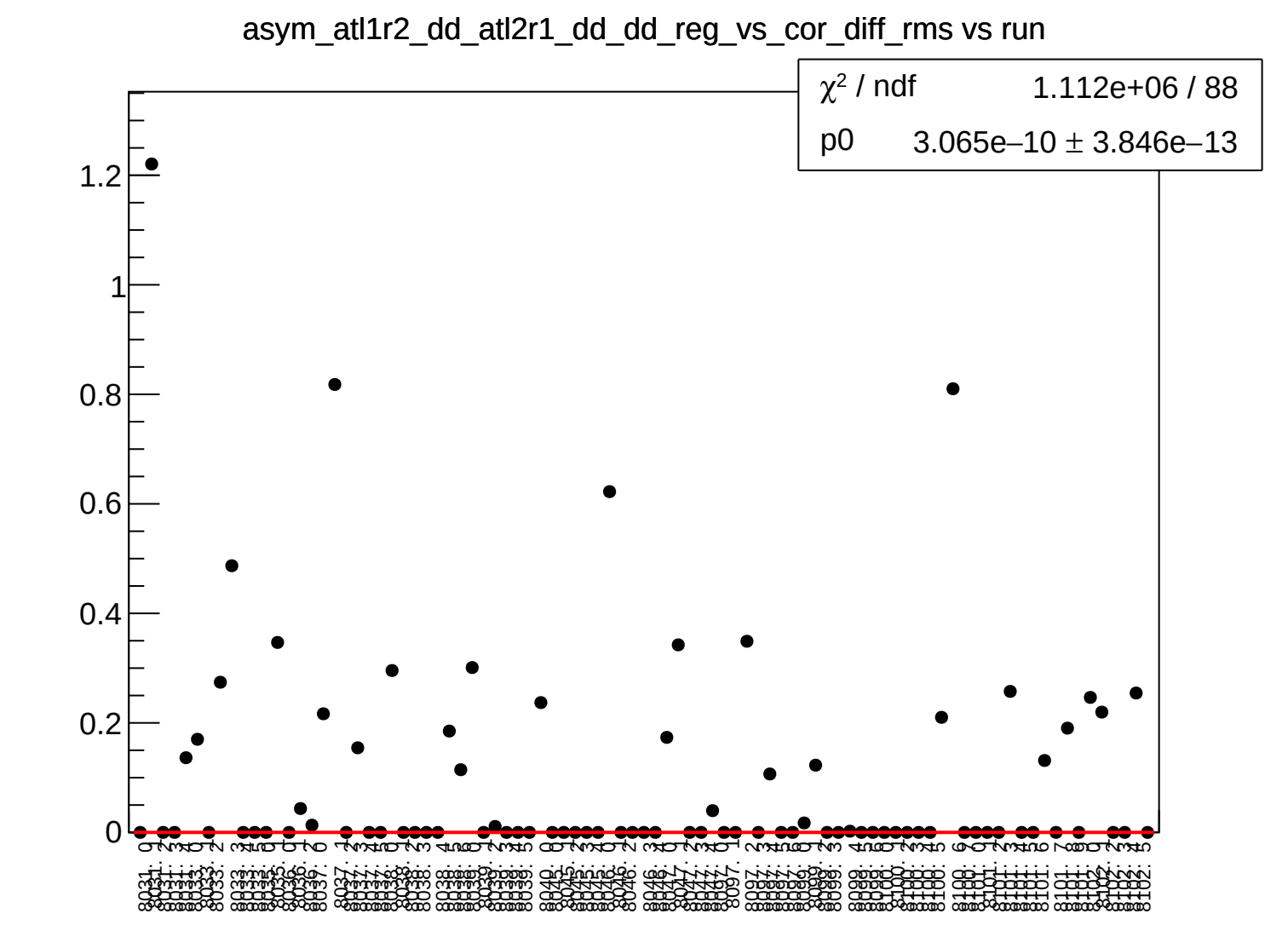

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 2834 / 88
p0 5240 ± 3.967
5800
5600
5400
5200
5000
4800

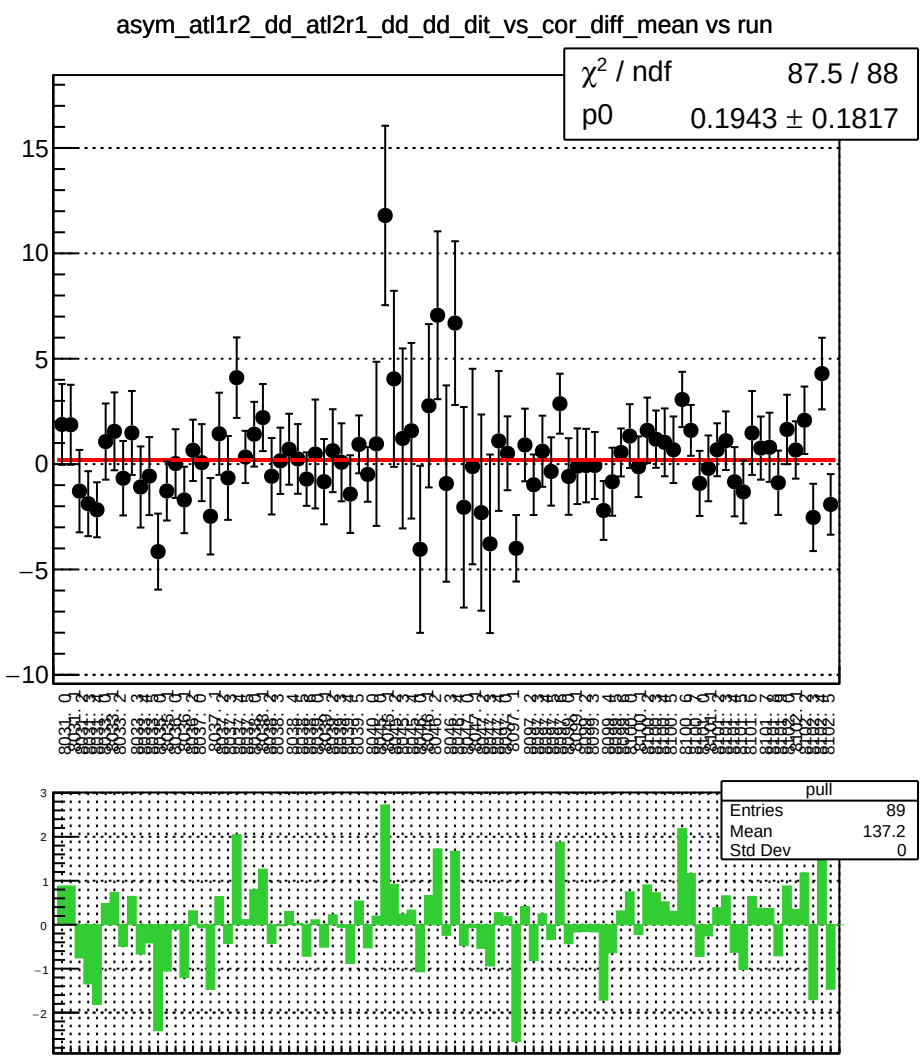

asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 99.39 / 88
p0 4070 ± 5833
×10³
300
200
100
0
−100
−200
pull
Entries 89
Mean −864.7
Std Dev 0
4
3
2
1
0
−1
−2

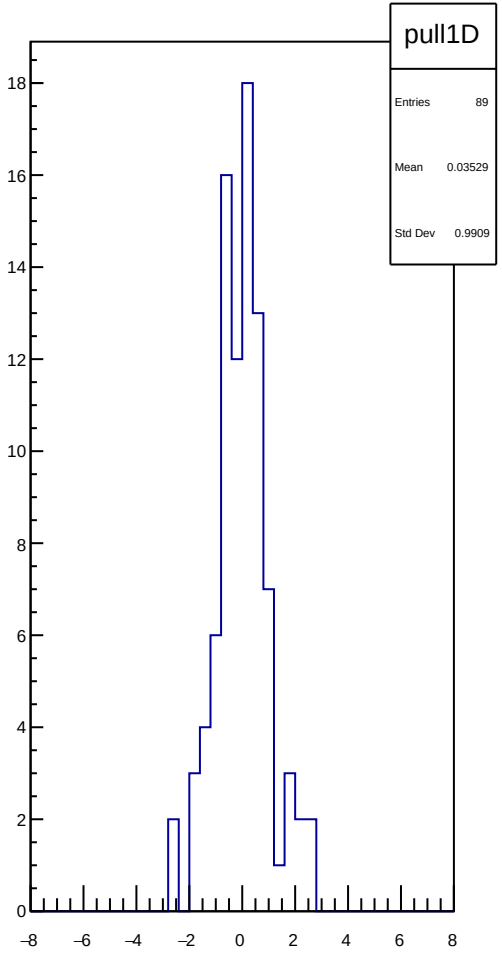

pull1D
Entries 89
Mean 0.001864
Std Dev 1.057
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

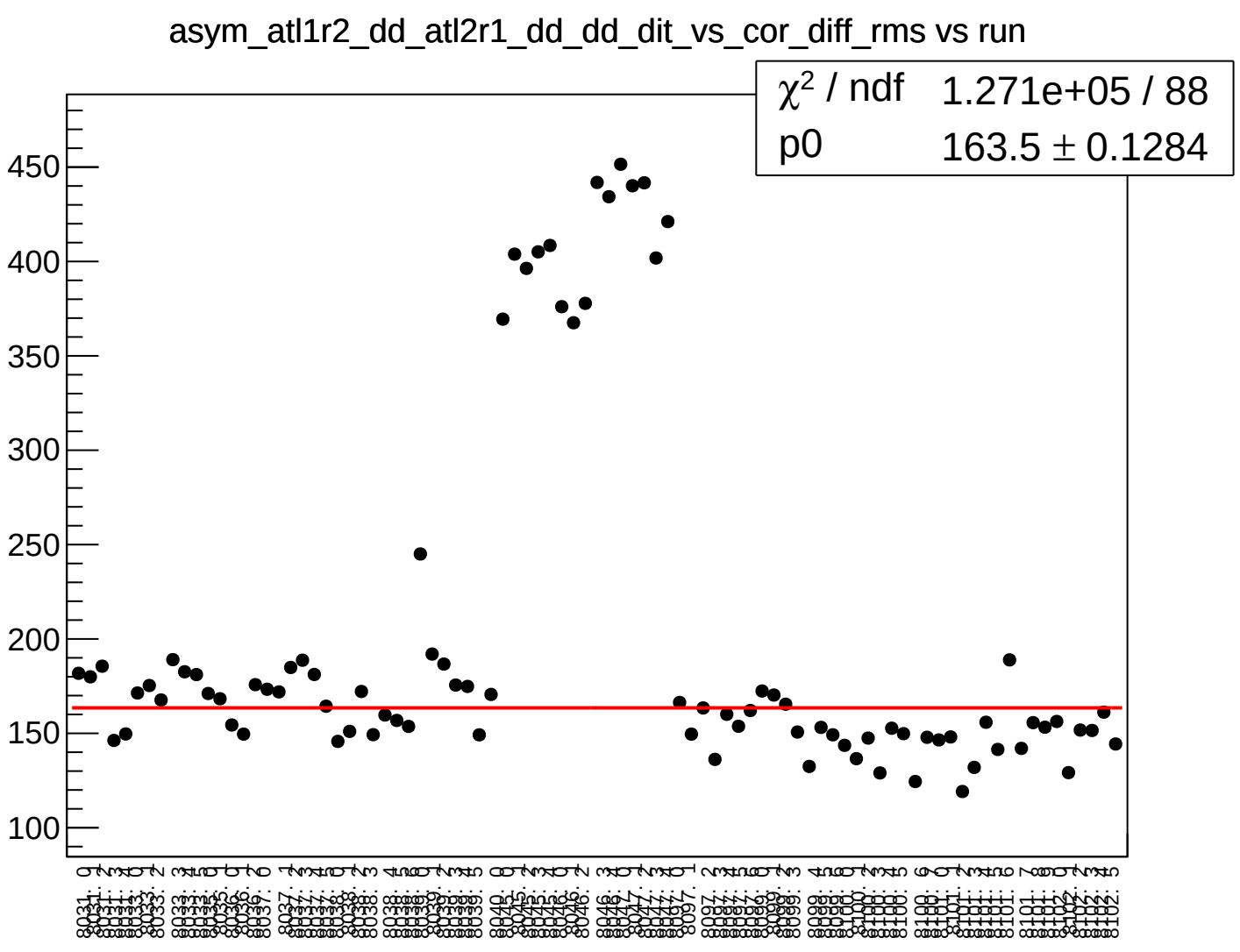

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
$\chi^2$ / ndf 1355 / 88
p0 5450 ± 4.125
5900
5800
5700
5600
5500
5400
5300
5200
5100
5000

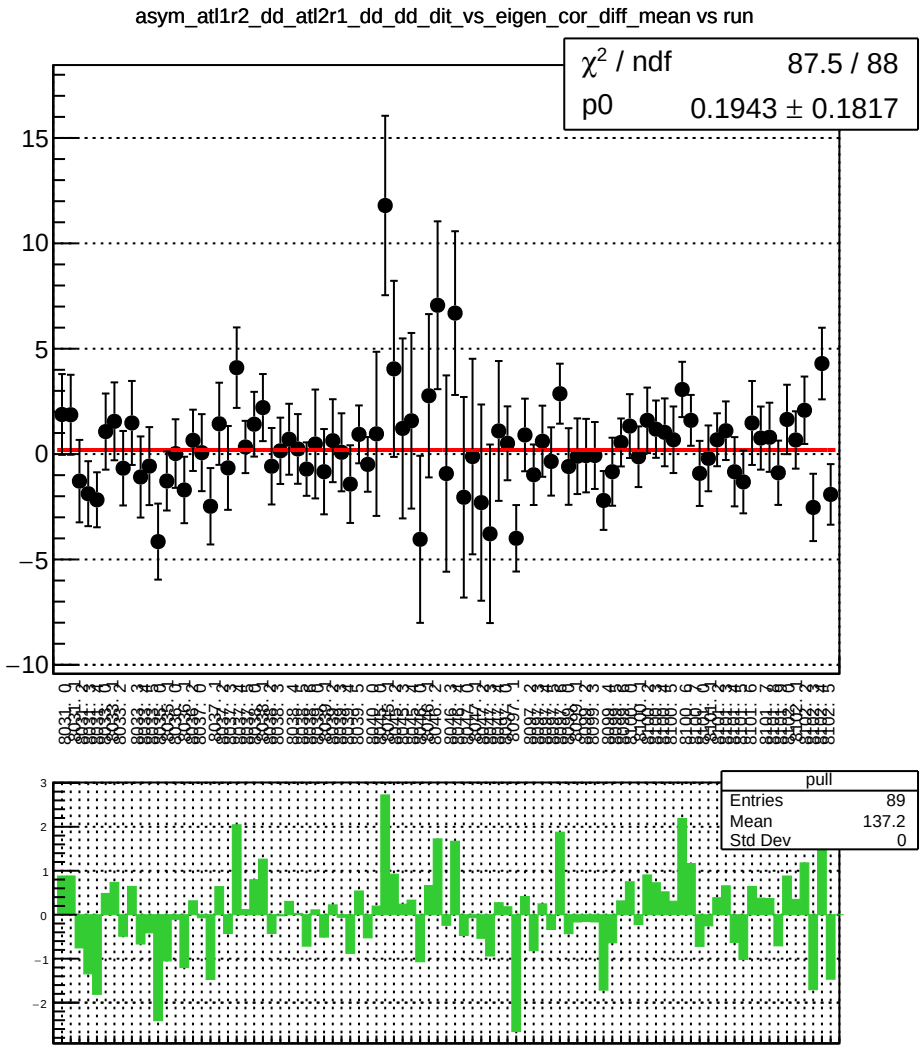

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 100.2 / 88
p0 −5.015e−13 ± 5.439e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 89
Mean 93.21
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.1474
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

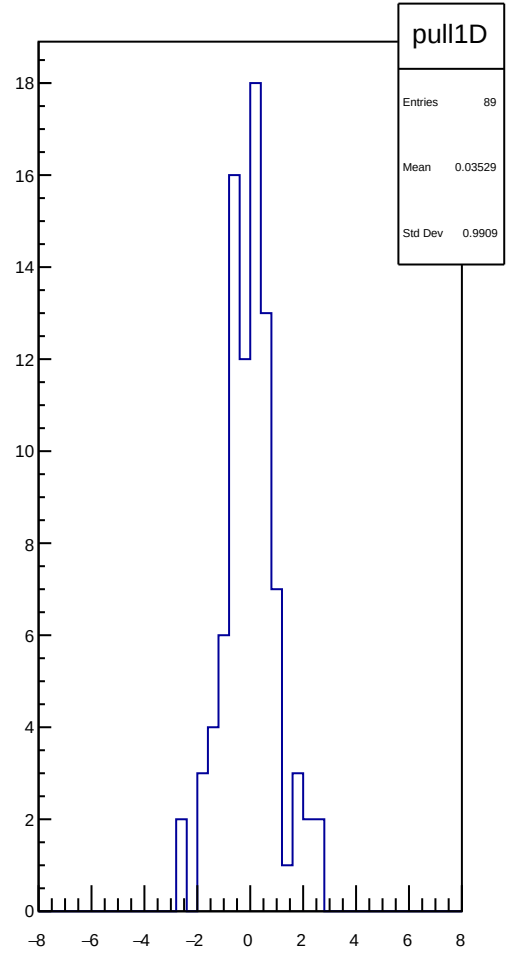

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.112e+06 / 88
p0 3.065e−10 ± 3.846e−13
1.2
1
0.8
0.6
0.4
0.2
0

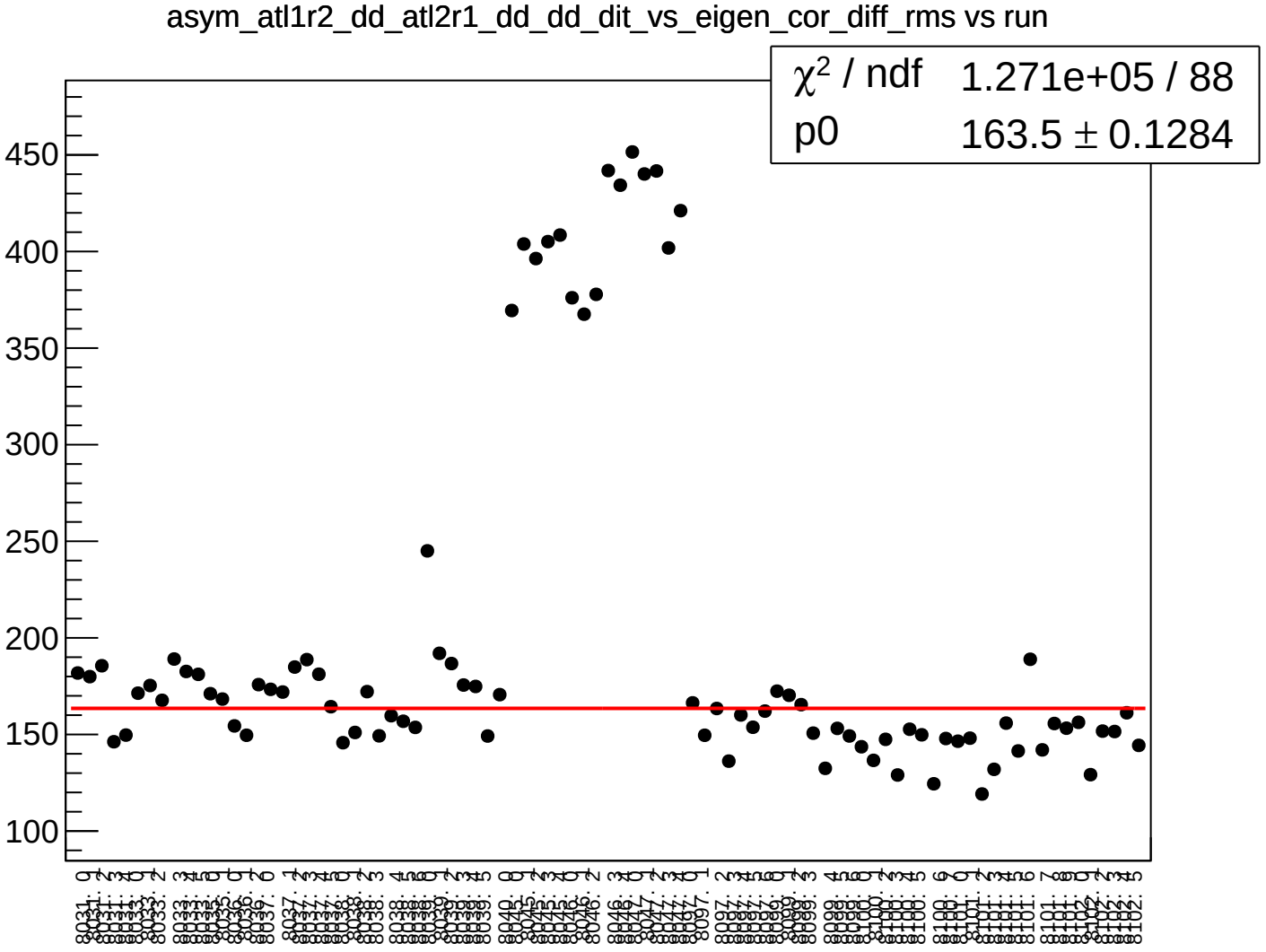

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.5 / 88
p0 0.1943 ± 0.1817
pull
Entries 89
Mean 137.2
Std Dev 0

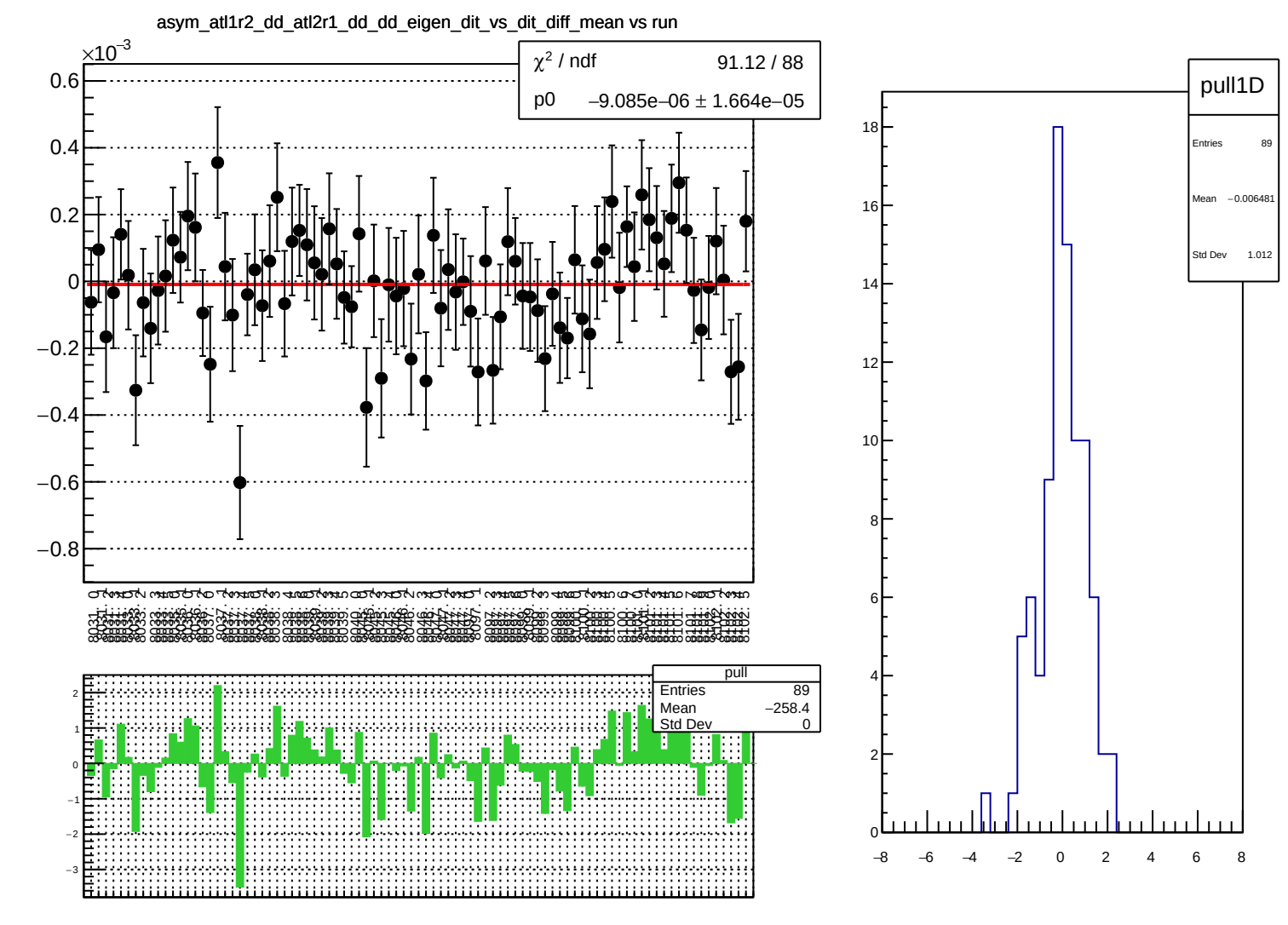

pull1D
Entries 89
Mean 0.03529
Std Dev 0.9909

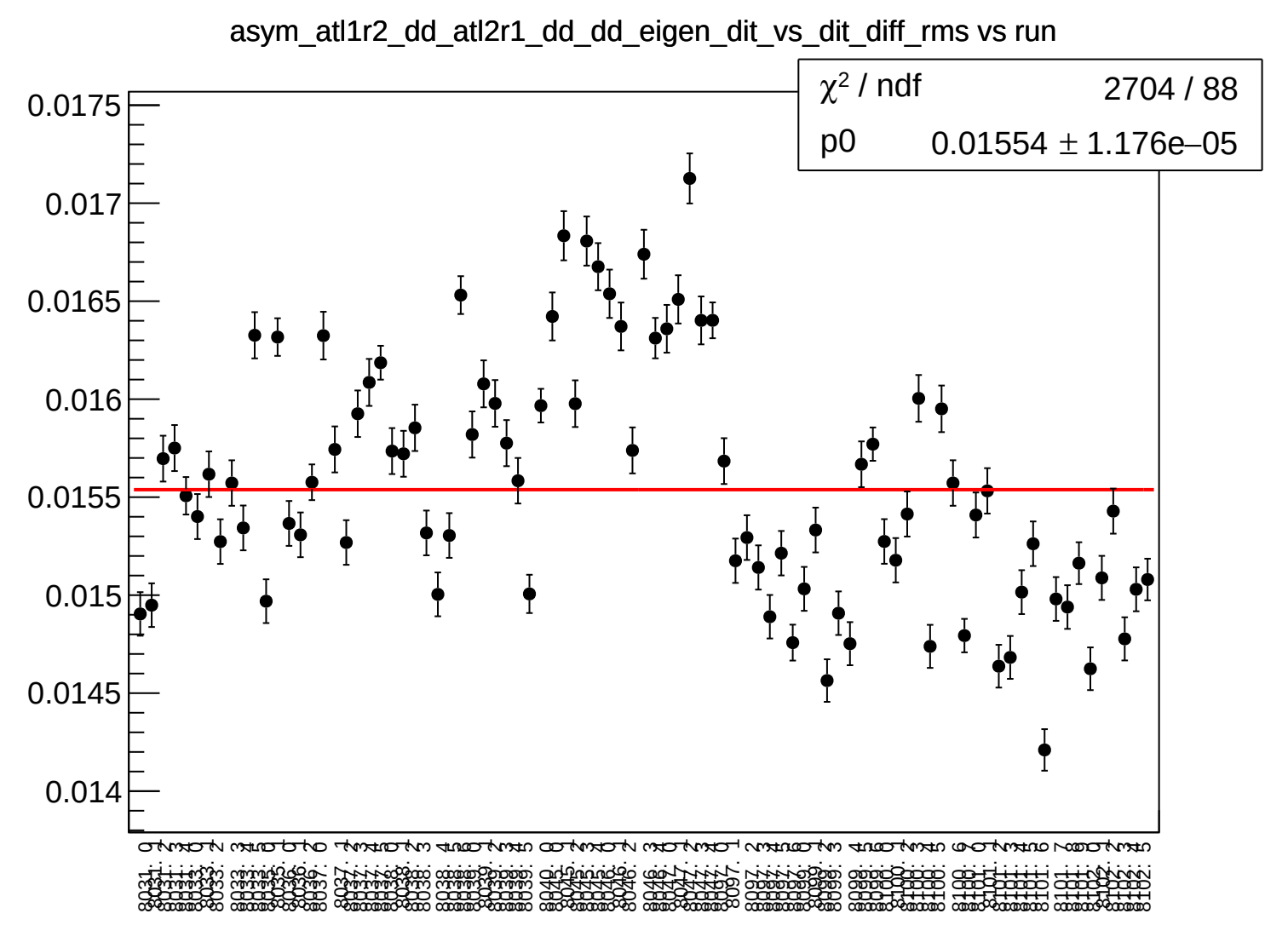

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.271e+05 / 88
p0 163.5 ± 0.1284
450
400
350
300
250
200
150
100

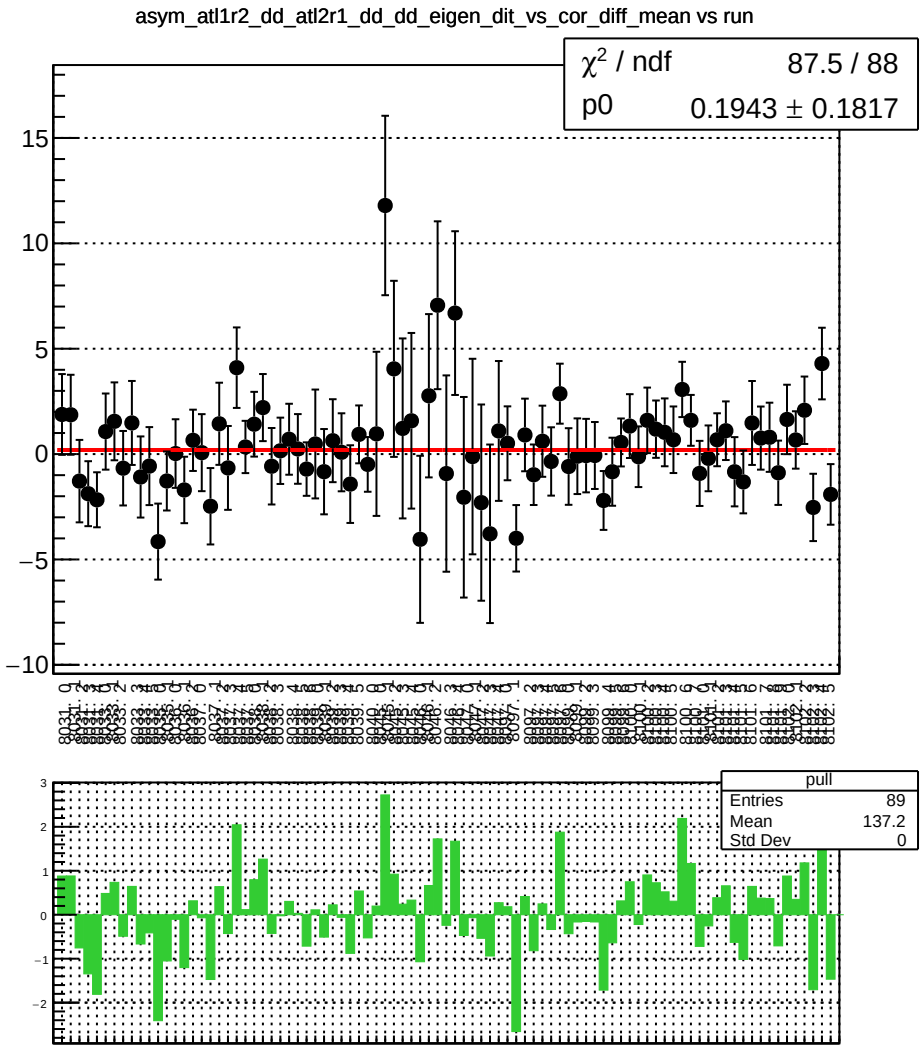

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.5 / 88
p0 0.1943 ± 0.1817
pull
Entries 89
Mean 137.2
Std Dev 0

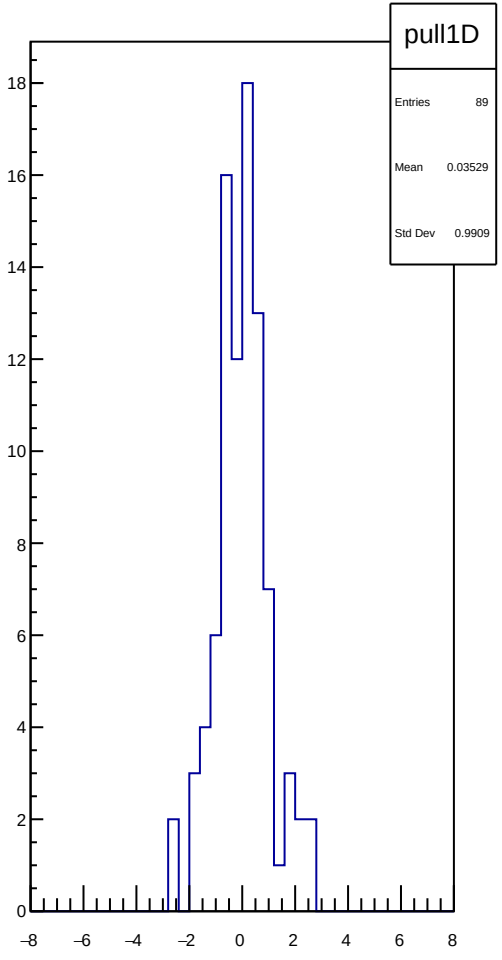

pull1D
Entries 89
Mean 0.03529
Std Dev 0.9909

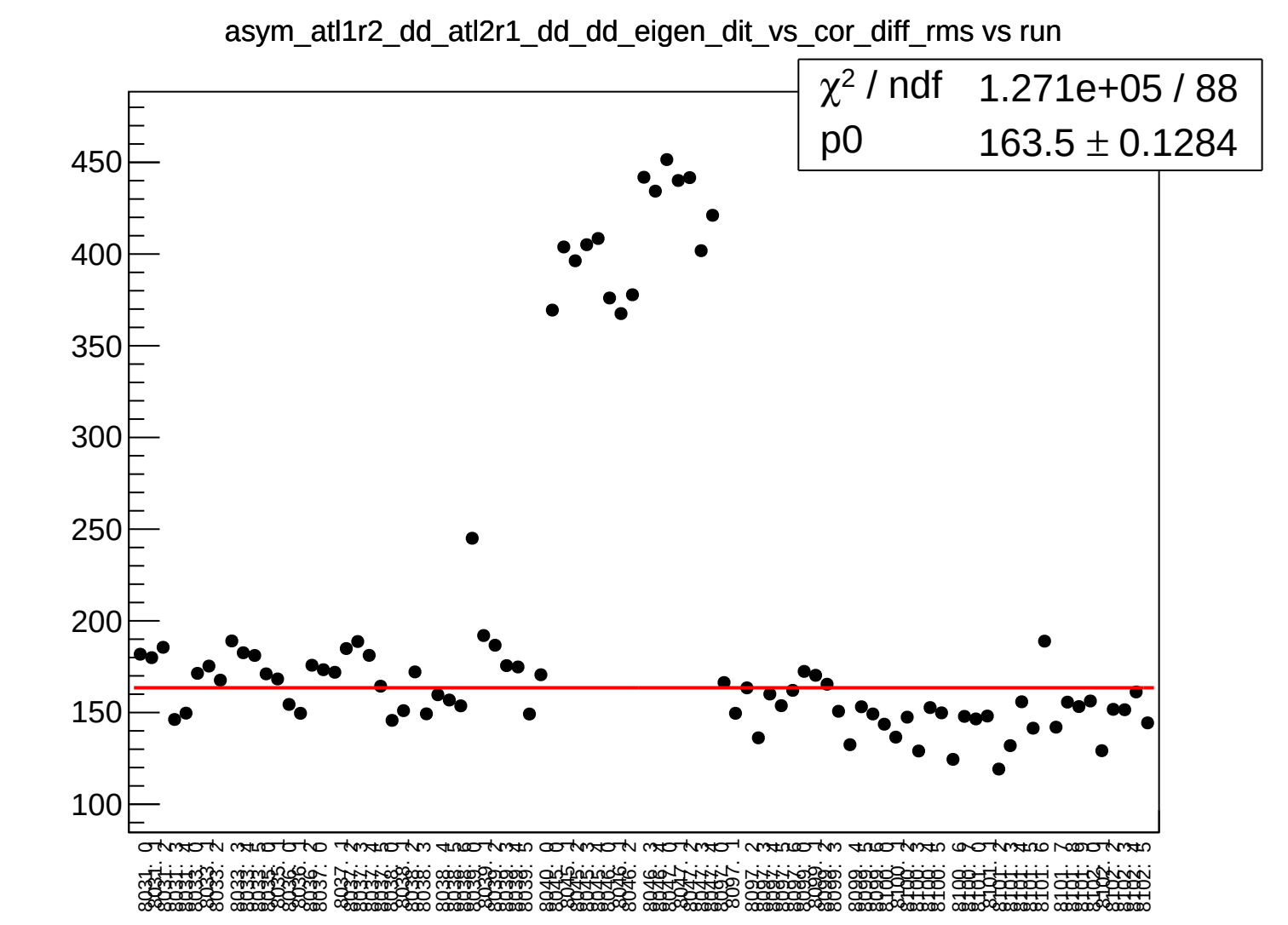

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.271e+05 / 88
p0 163.5 ± 0.1284
450
400
350
300
250
200
150
100

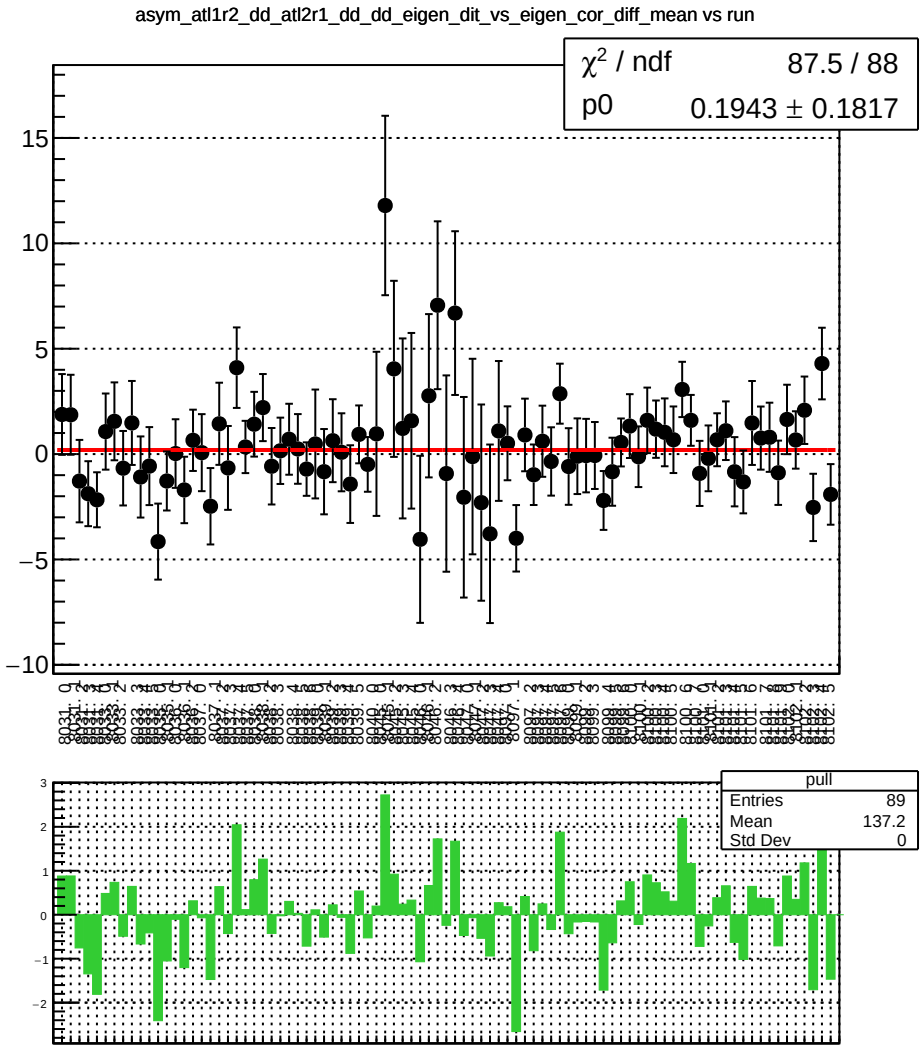

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 91.12 / 88
p0 −9.085e−06 ± 1.664e−05
pull
Entries 89
Mean −258.4
Std Dev 0
pull1D
Entries 89
Mean −0.006481
Std Dev 1.012

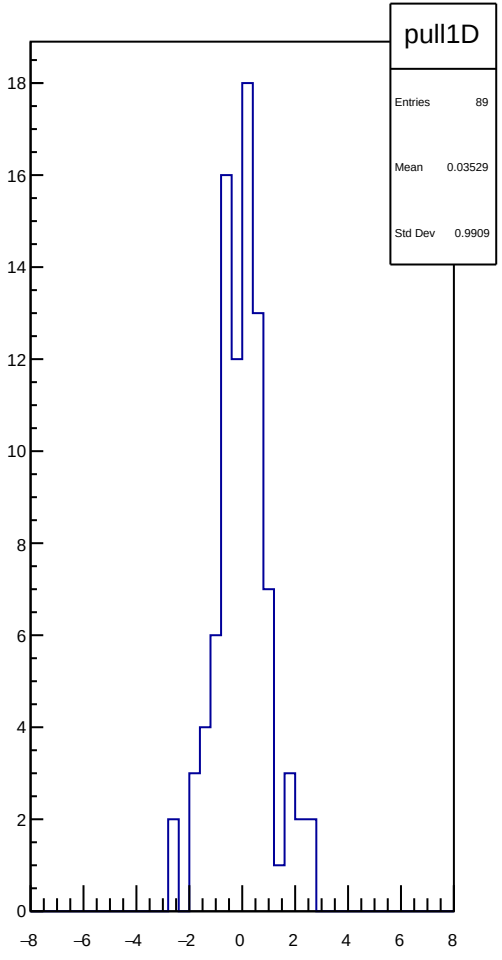

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2704 / 88
p0 0.01554 ± 1.176e−05
0.0175
0.017
0.0165
0.016
0.0155
0.015
0.0145
0.014

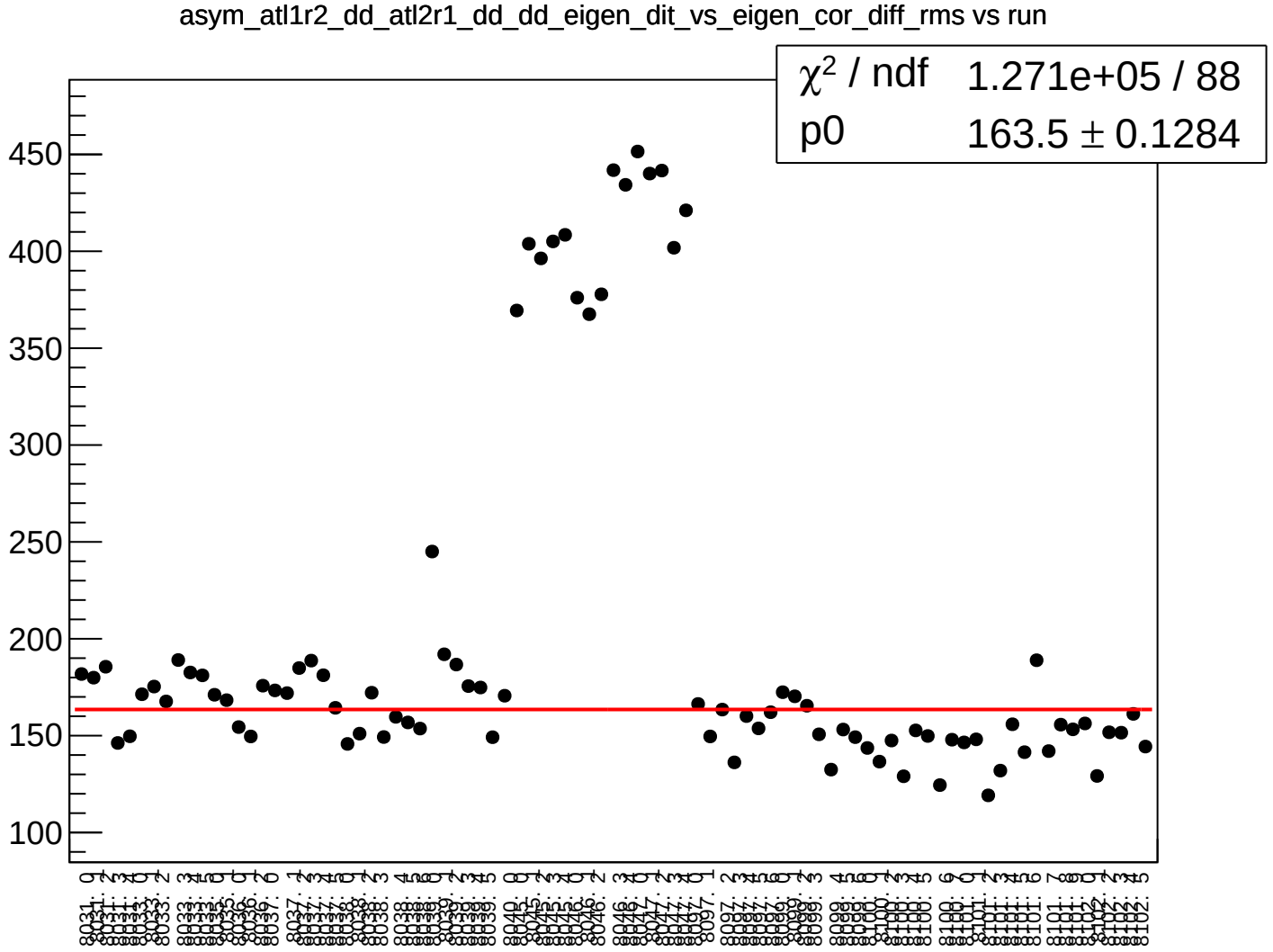

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.5 / 88
p0 0.1943 ± 0.1817
pull
Entries 89
Mean 137.2
Std Dev 0

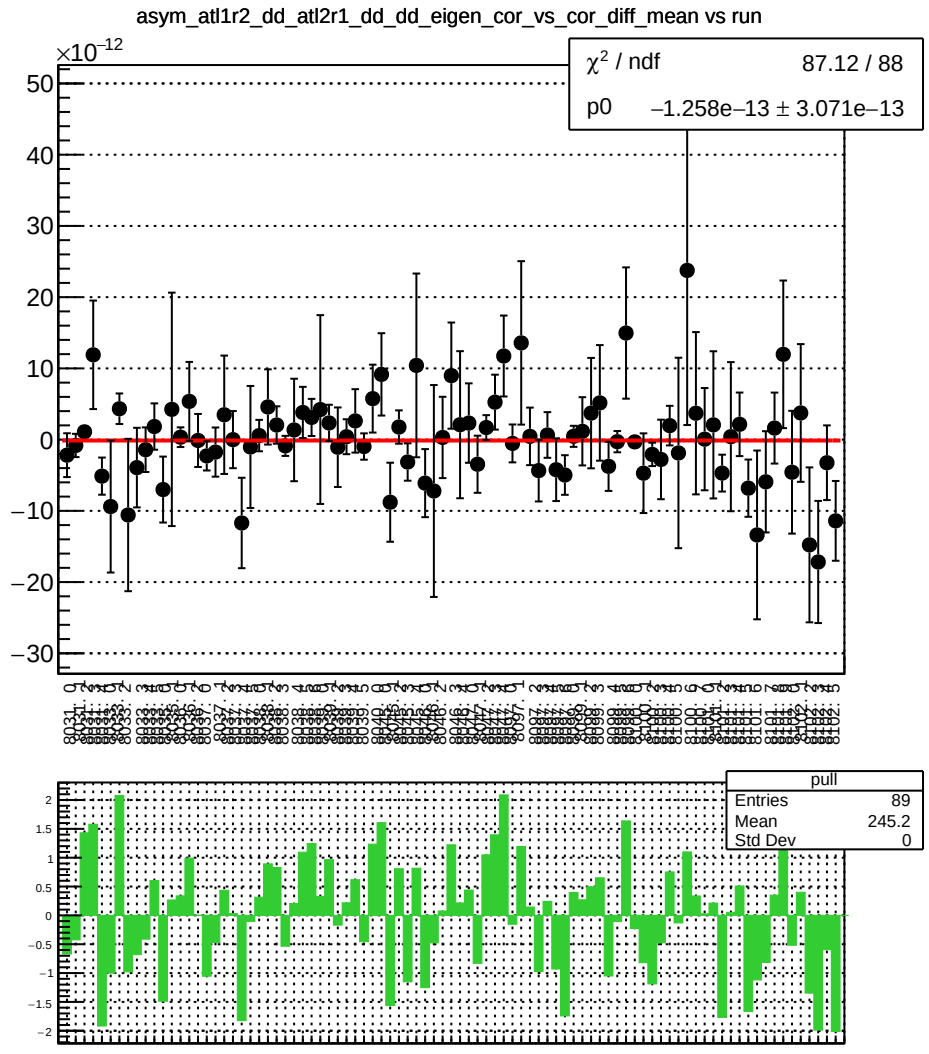

pull1D
Entries 89
Mean 0.03529
Std Dev 0.9909

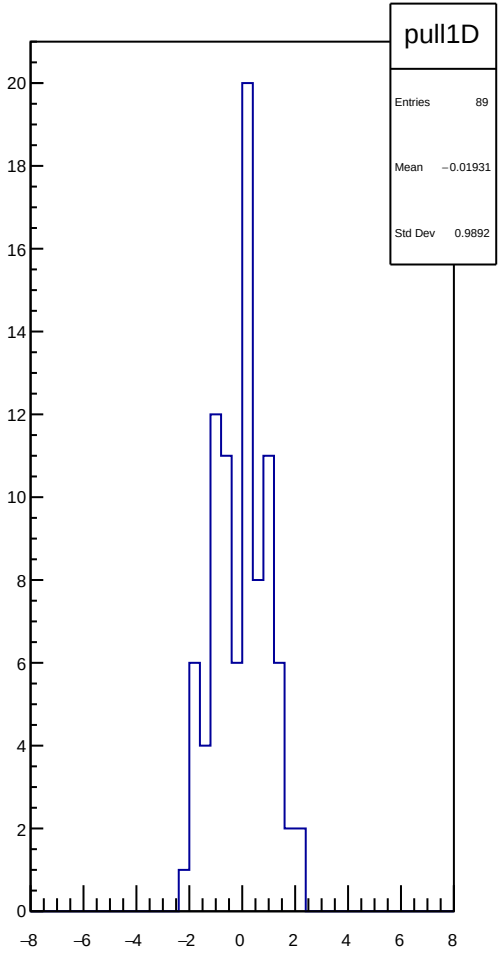

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.271e+05 / 88
p0 163.5 ± 0.1284
450
400
350
300
250
200
150
100

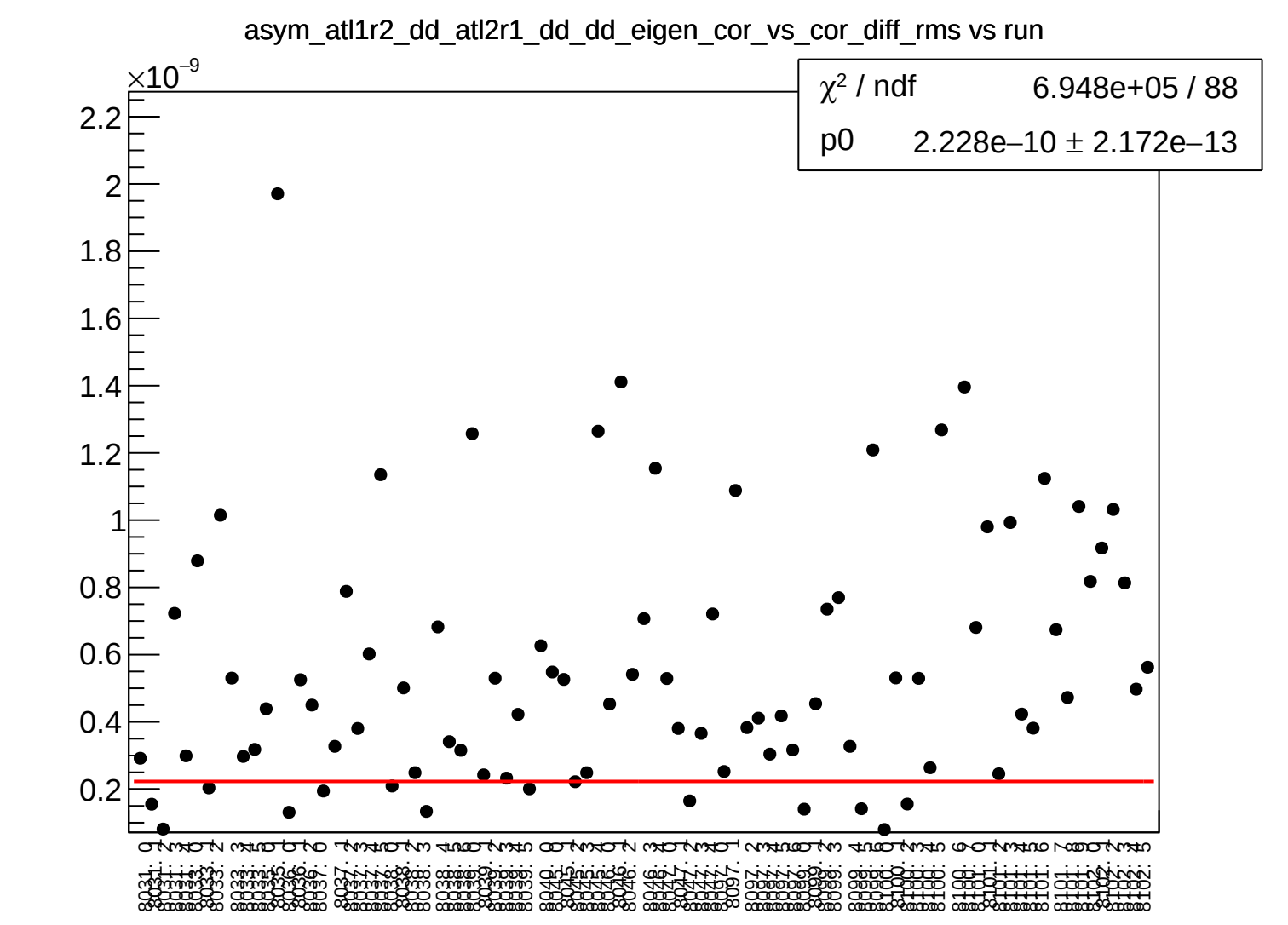

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.5 / 88
p0 0.1943 ± 0.1817
pull
Entries 89
Mean 137.2
Std Dev 0

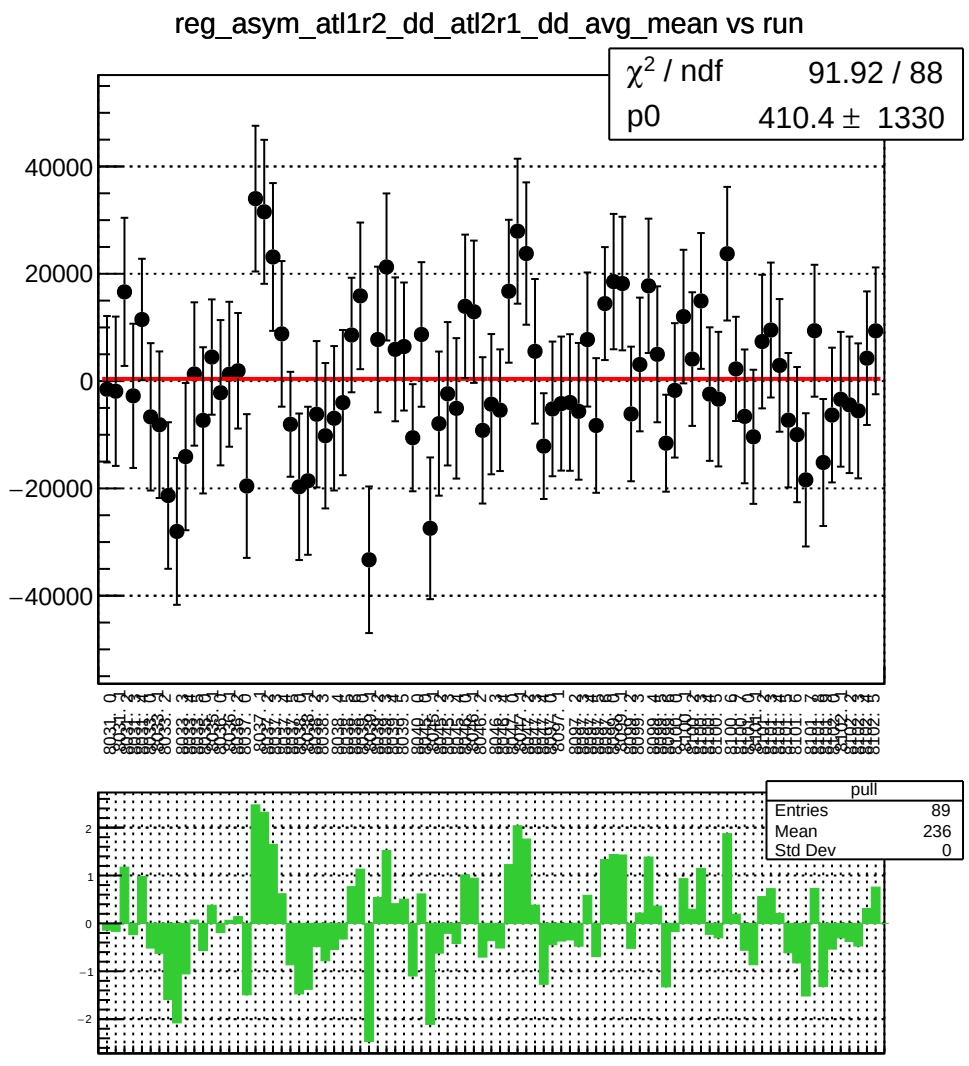

pull1D
Entries 89
Mean 0.03529
Std Dev 0.9909

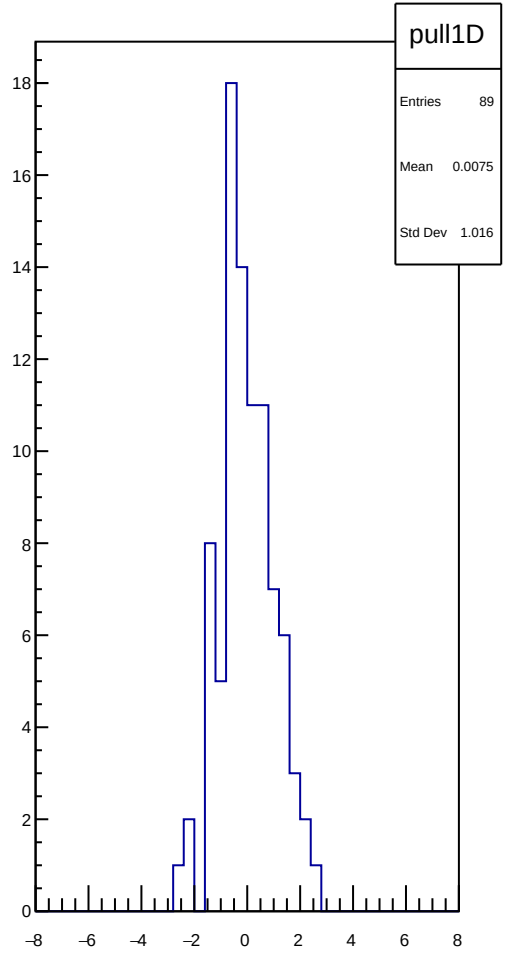

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.271e+05 / 88
p0 163.5 ± 0.1284
450
400
350
300
250
200
150
100

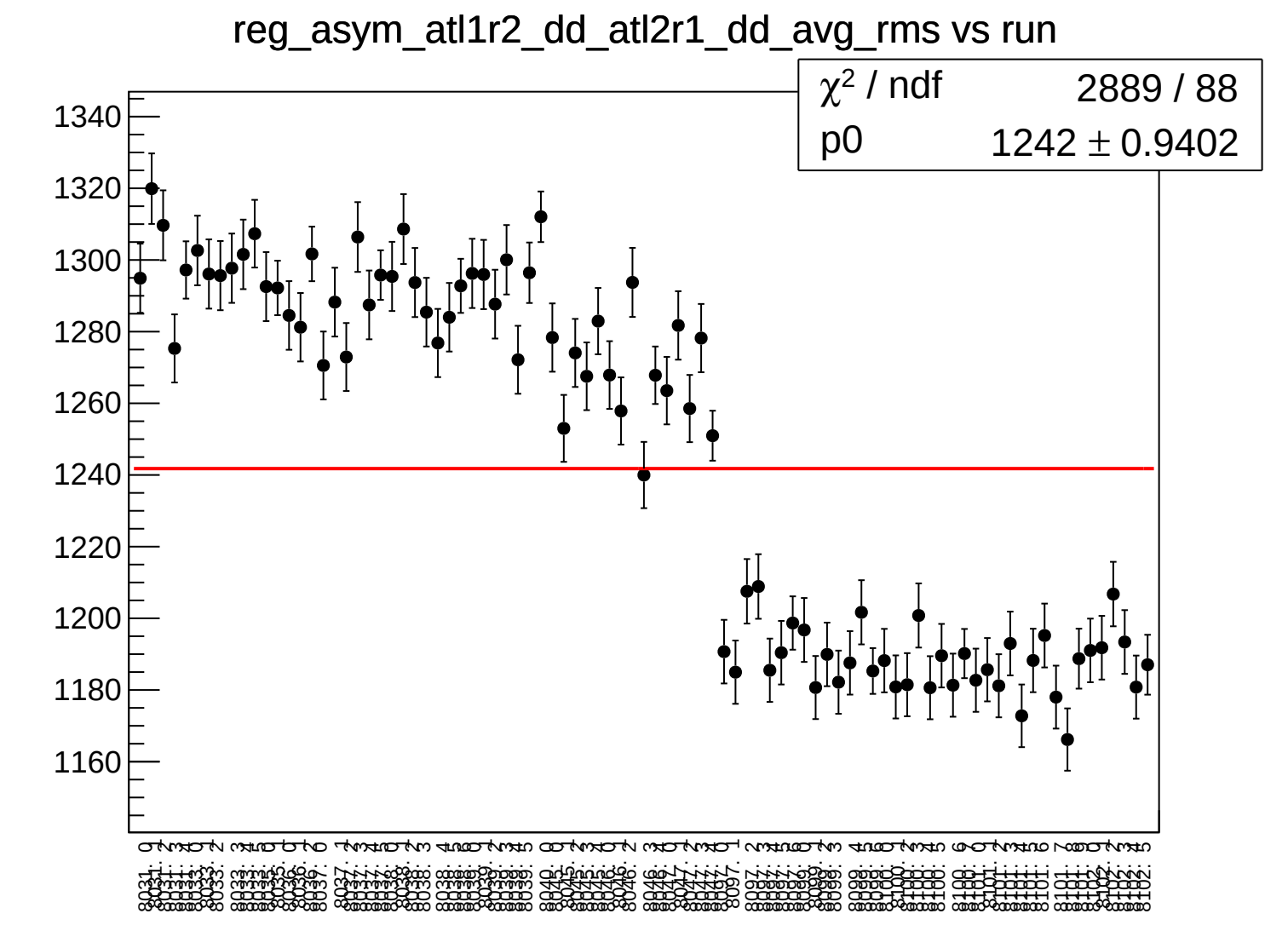

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.12 / 88
p0 −1.258e−13 ± 3.071e−13
pull
Entries 89
Mean 245.2
Std Dev 0

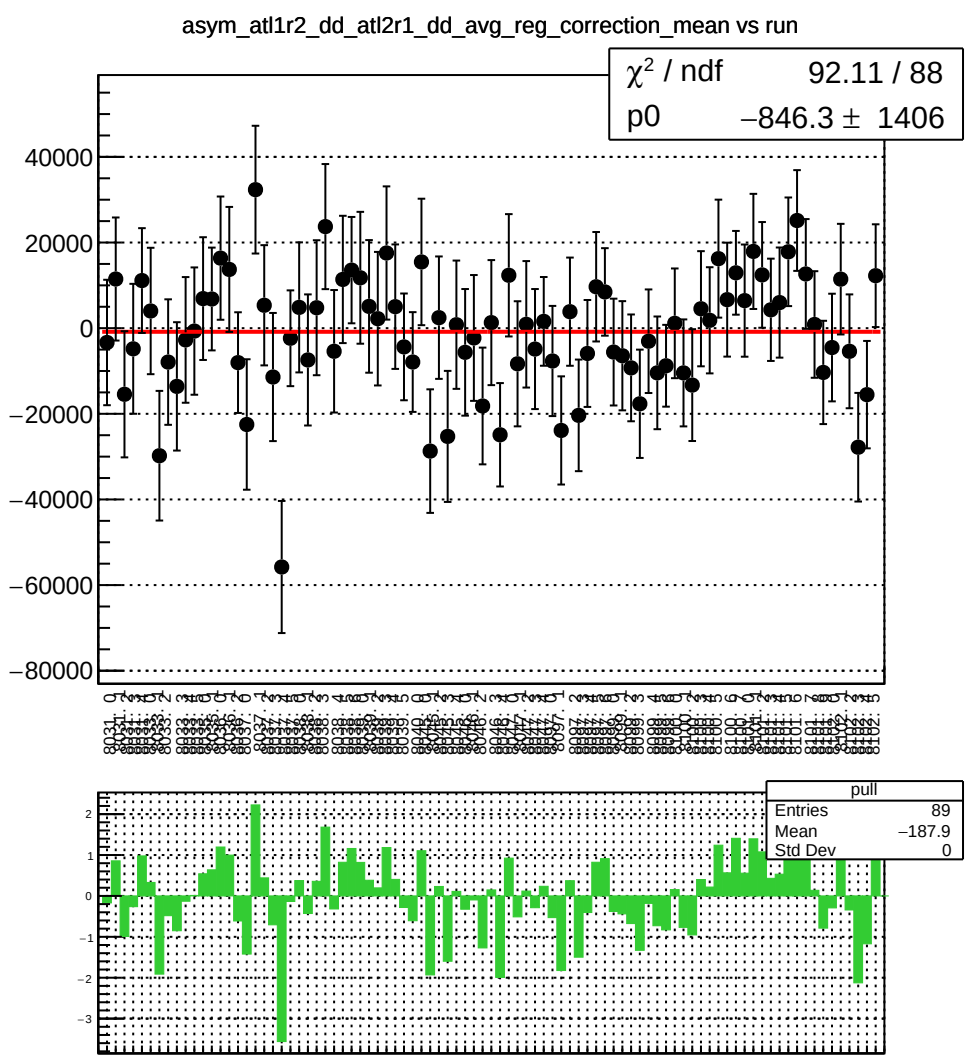

pull1D
Entries 89
Mean −0.01931
Std Dev 0.9892

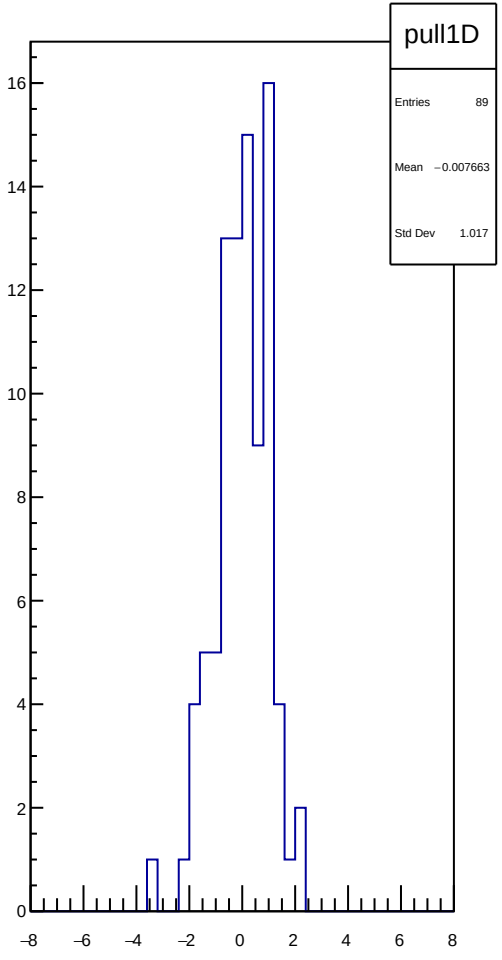

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.948e+05 / 88
p0 2.228e−10 ± 2.172e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

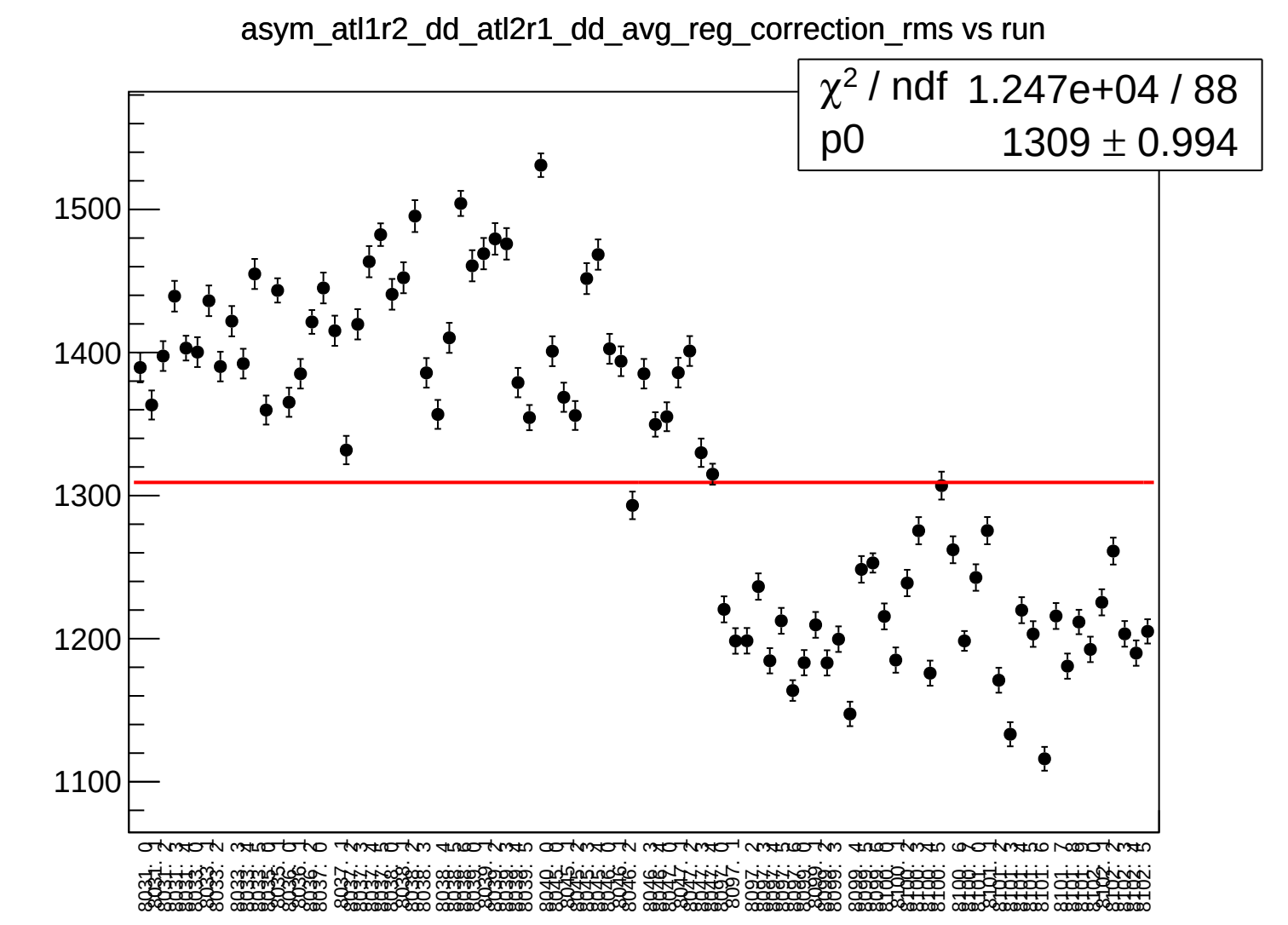

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 91.92 / 88
p0 410.4 ± 1330
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 236
Std Dev 0
2
1
0
−1
−2

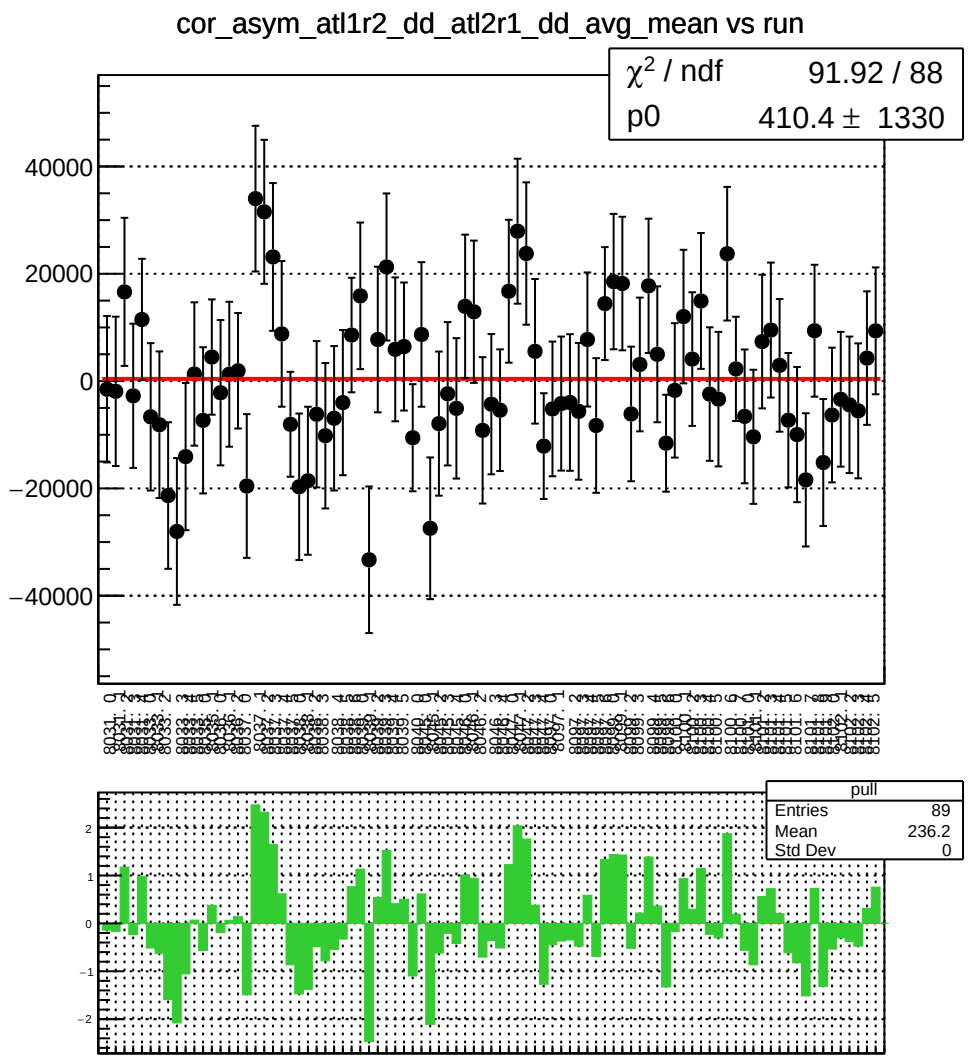

pull1D
Entries 89
Mean 0.0075
Std Dev 1.016
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

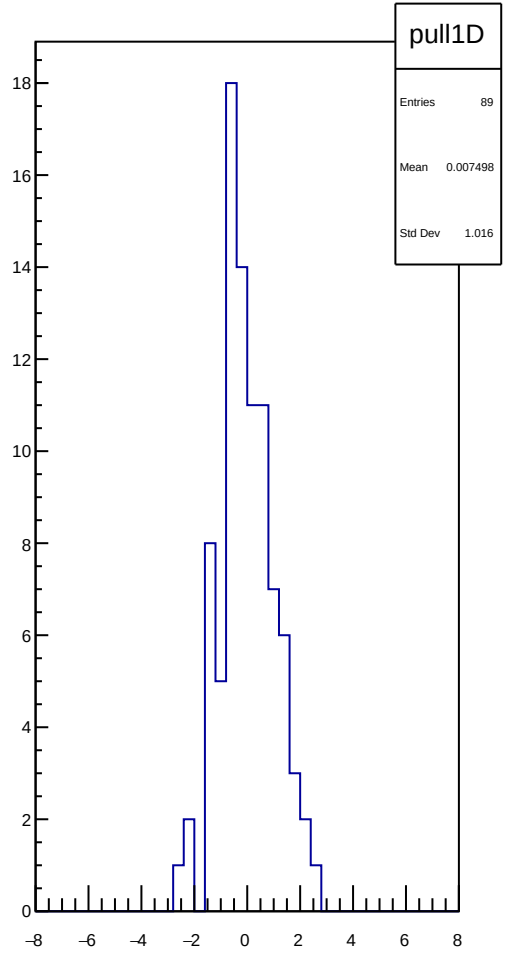

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 2889 / 88
p0 1242 ± 0.9402
1340
1320
1300
1280
1260
1240
1220
1200
1180
1160

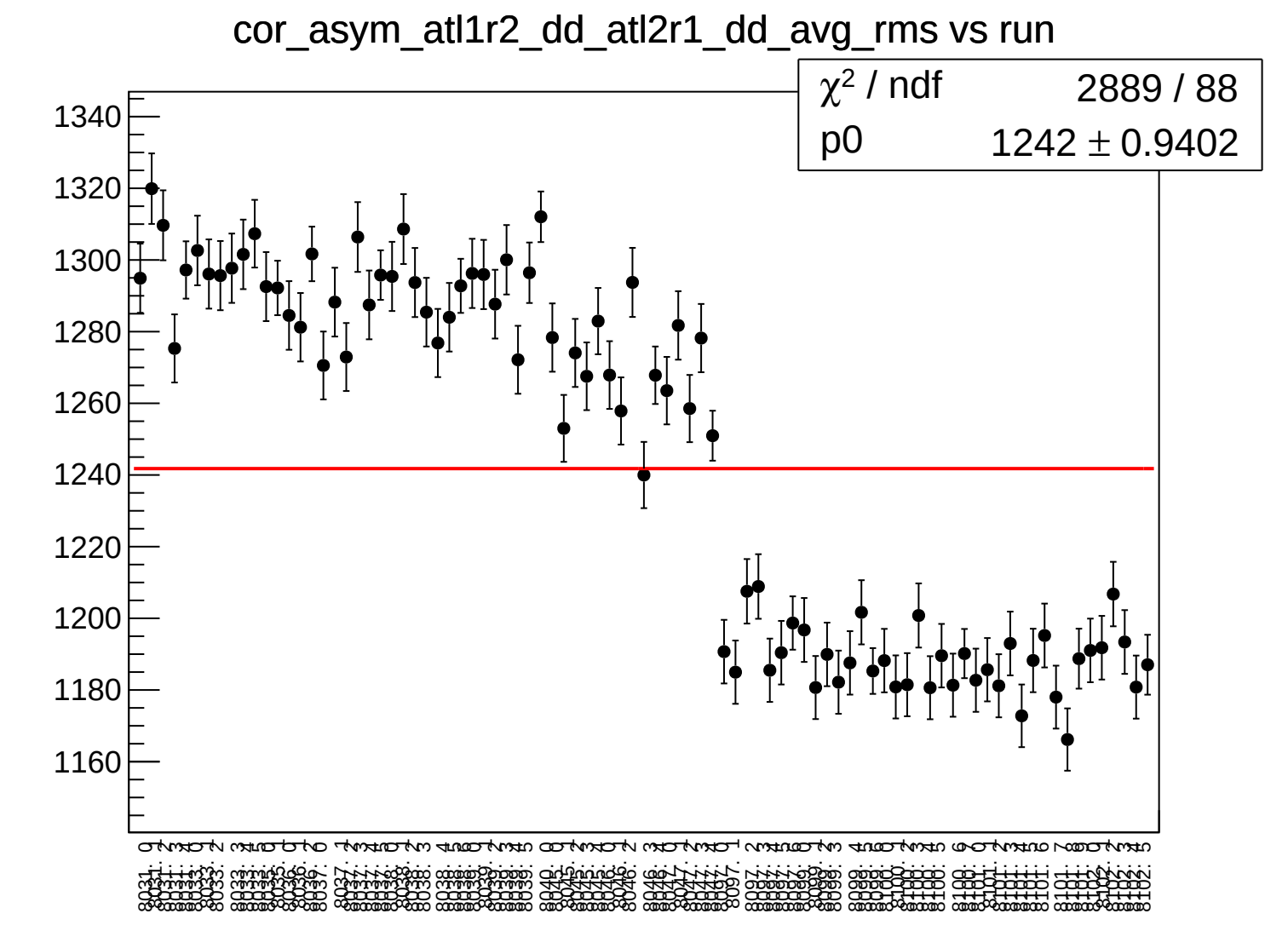

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 92.11 / 88
p0 −846.3 ± 1406
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −187.9
Std Dev 0
2
1
0
−1
−2
−3

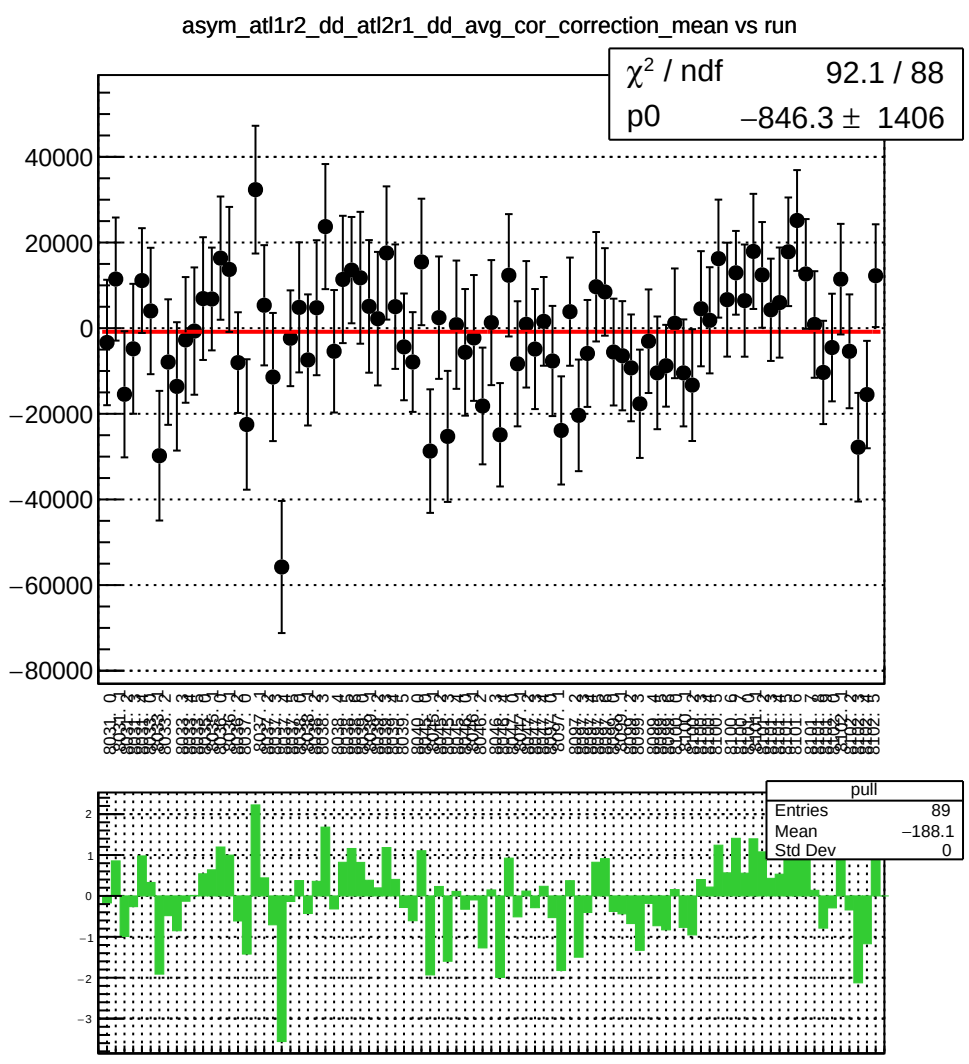

pull1D
Entries 89
Mean −0.007663
Std Dev 1.017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

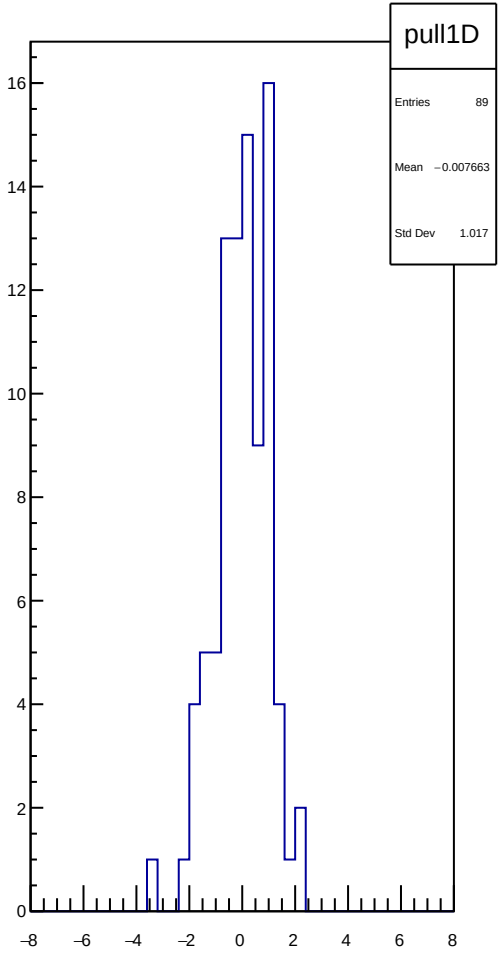

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 1.247e+04 / 88
p0 1309 ± 0.994
1500
1400
1300
1200
1100

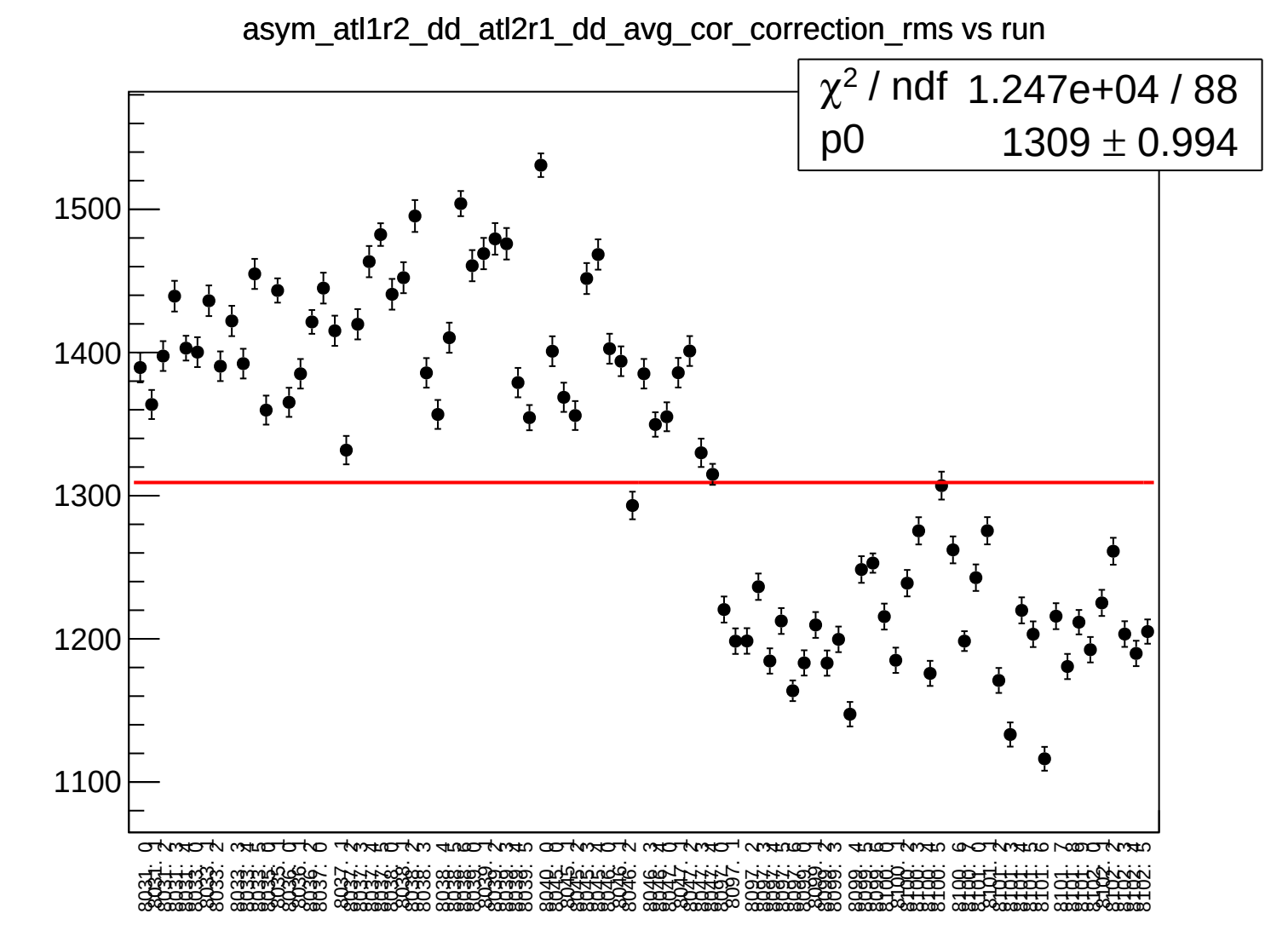

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 91.92 / 88
p0 410.4 ± 1330
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 236.2
Std Dev 0
2
1
0
−1
−2

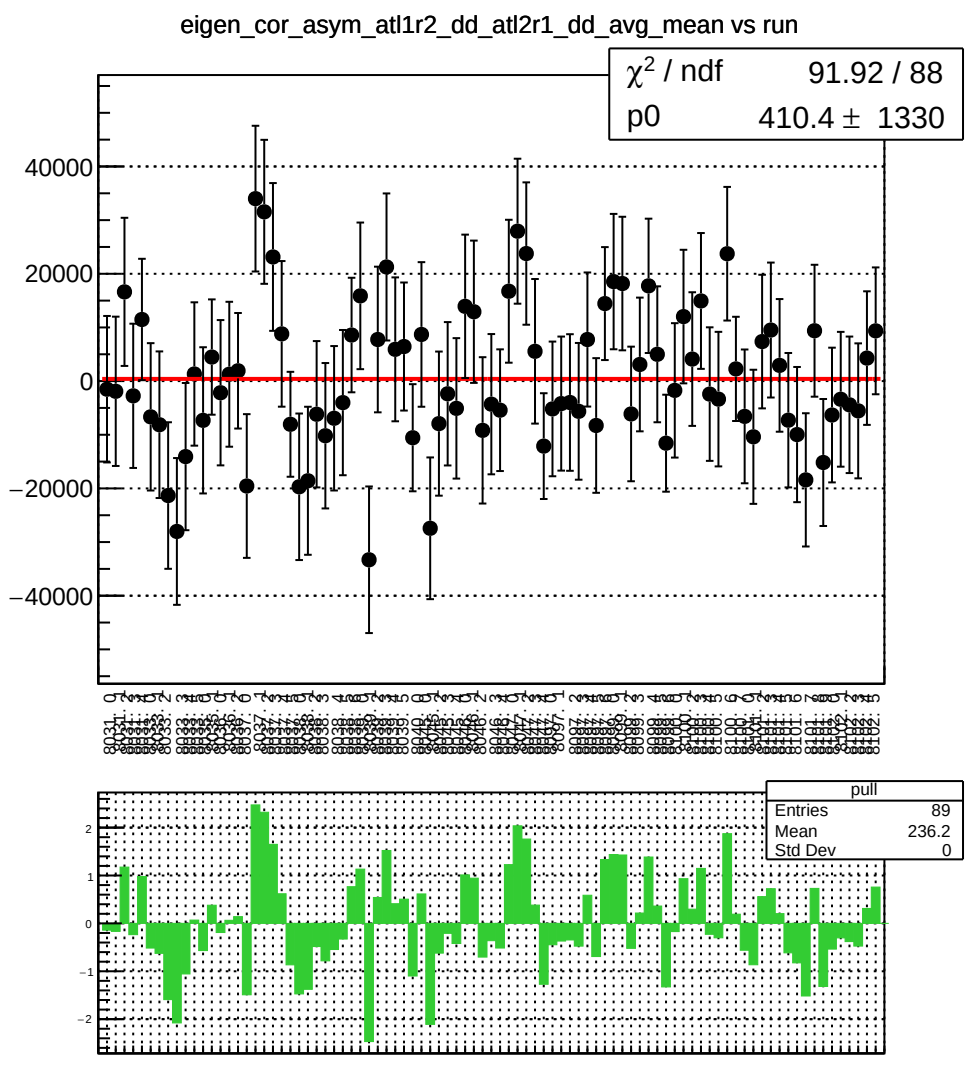

pull1D
Entries 89
Mean 0.007498
Std Dev 1.016
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

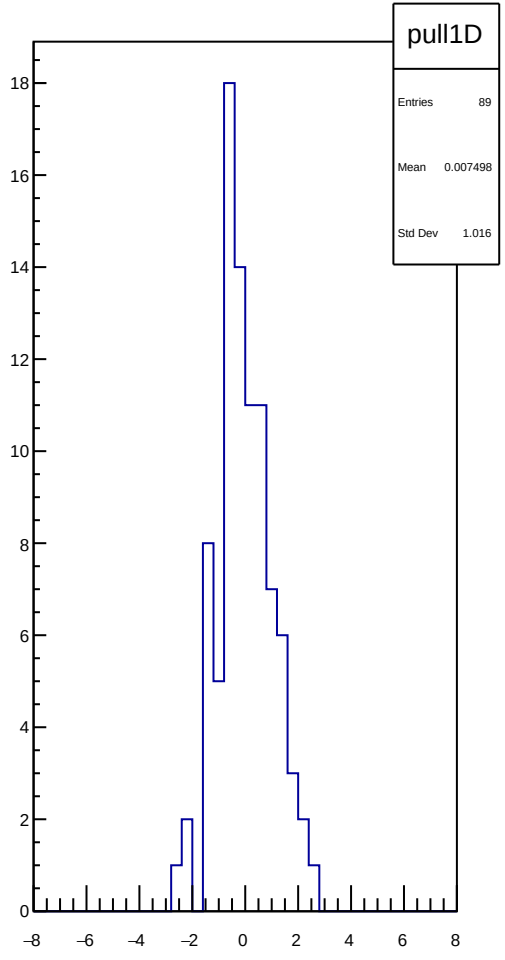

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 2889 / 88
p0 1242 ± 0.9402
1340
1320
1300
1280
1260
1240
1220
1200
1180
1160

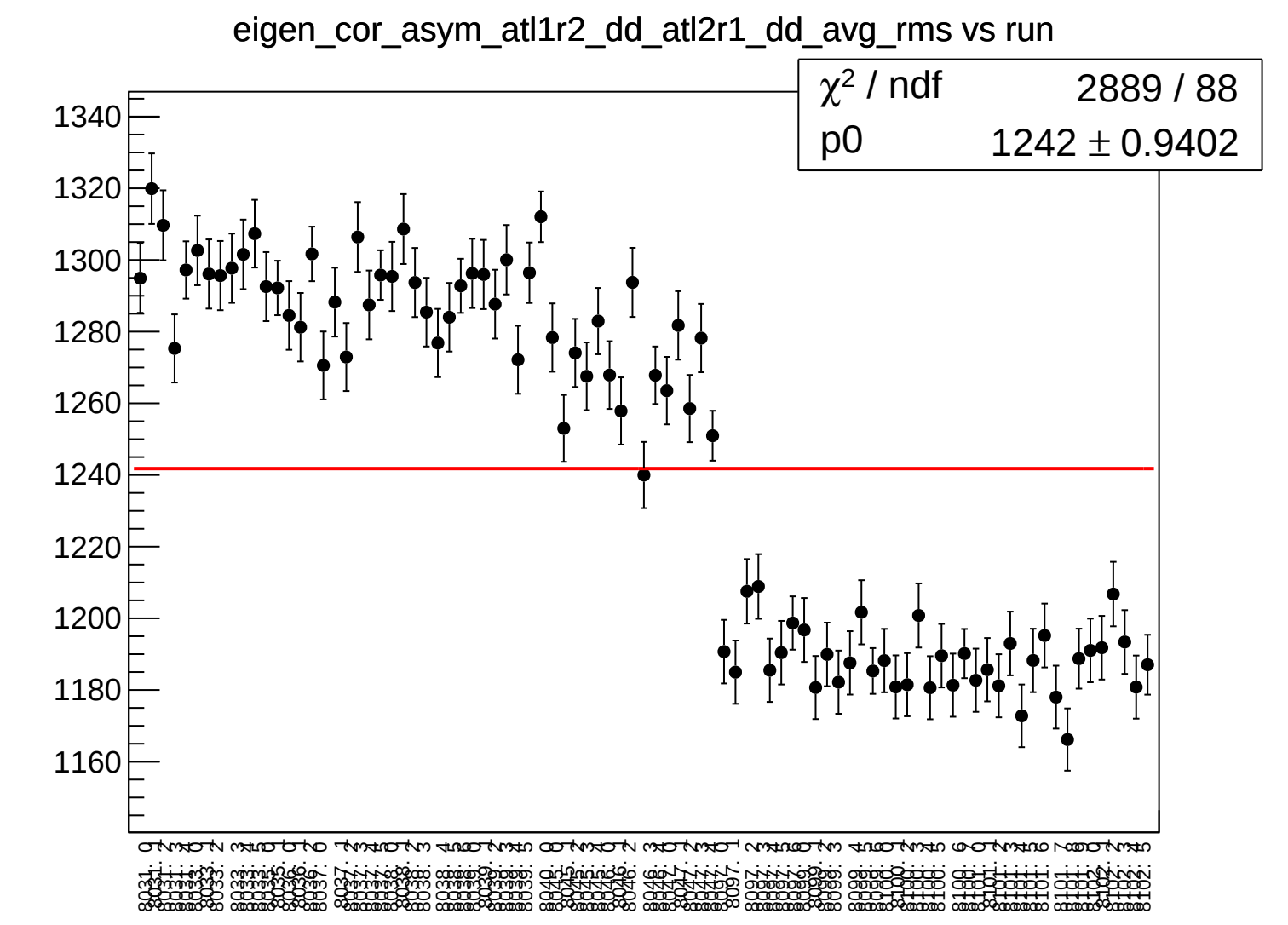

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 92.1 / 88
p0 −846.3 ± 1406
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −188.1
Std Dev 0
2
1
0
−1
−2
−3

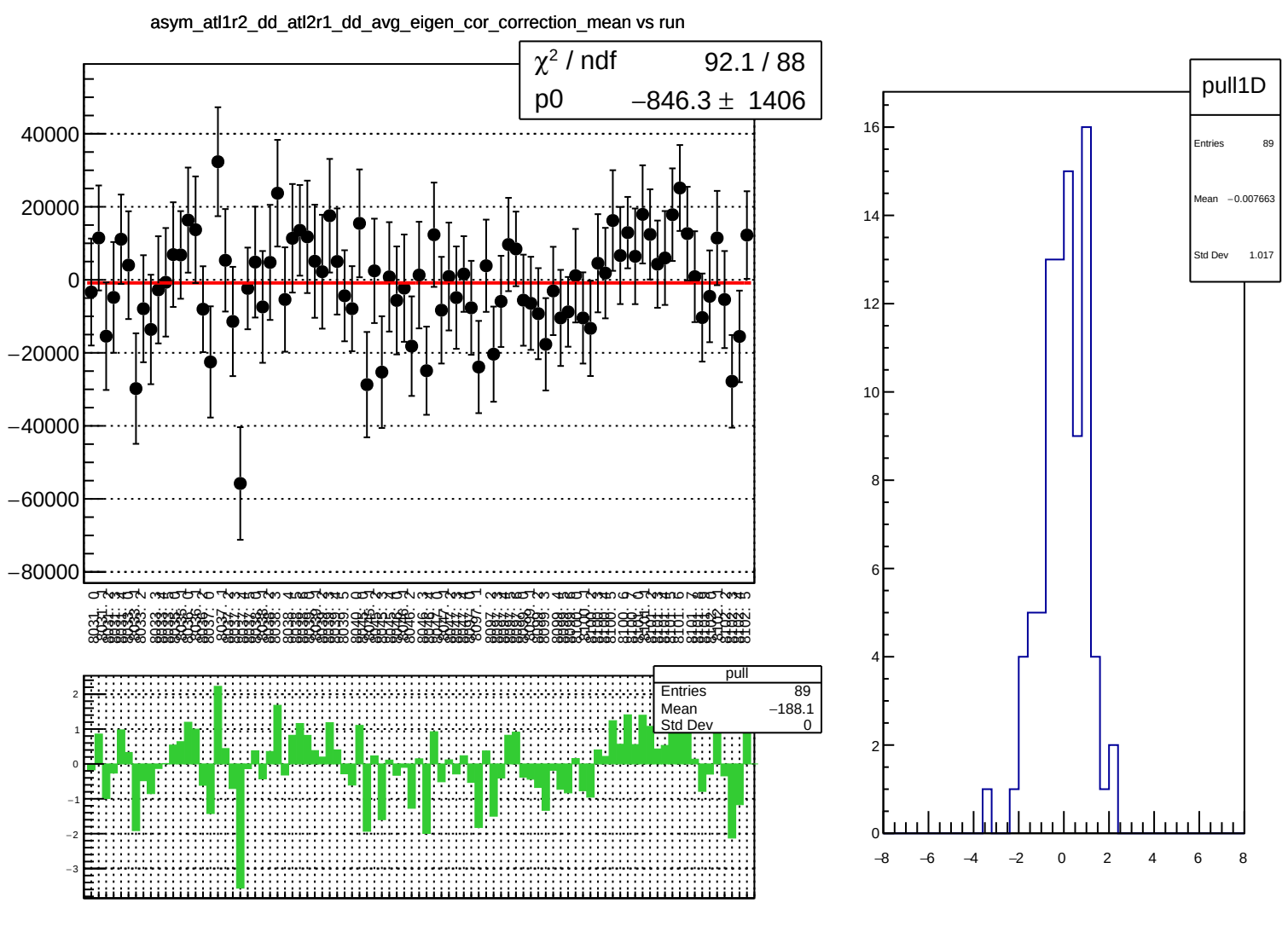

pull1D
Entries 89
Mean −0.007663
Std Dev 1.017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

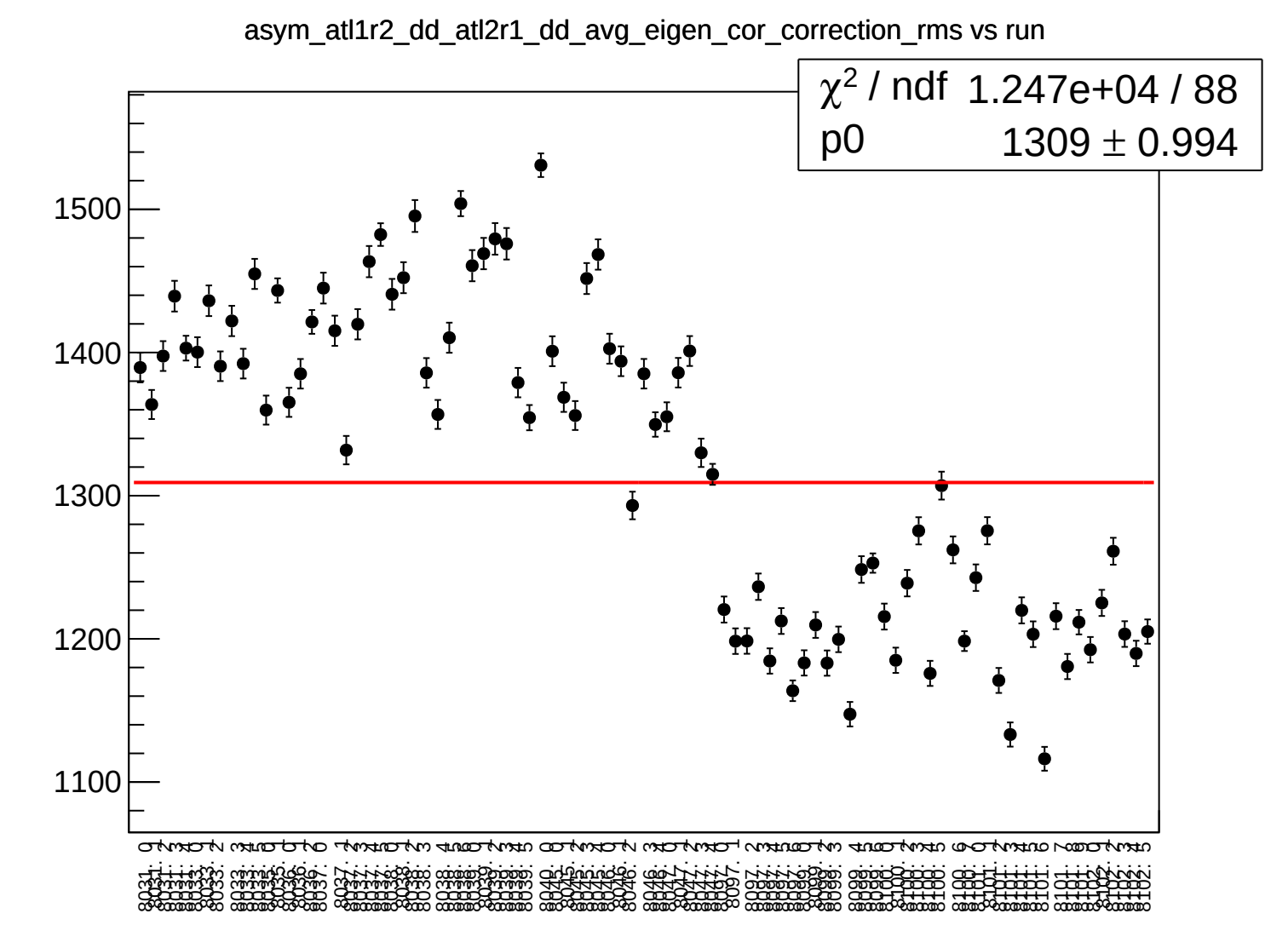

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 1.247e+04 / 88
p0 1309 ± 0.994
1500
1400
1300
1200
1100

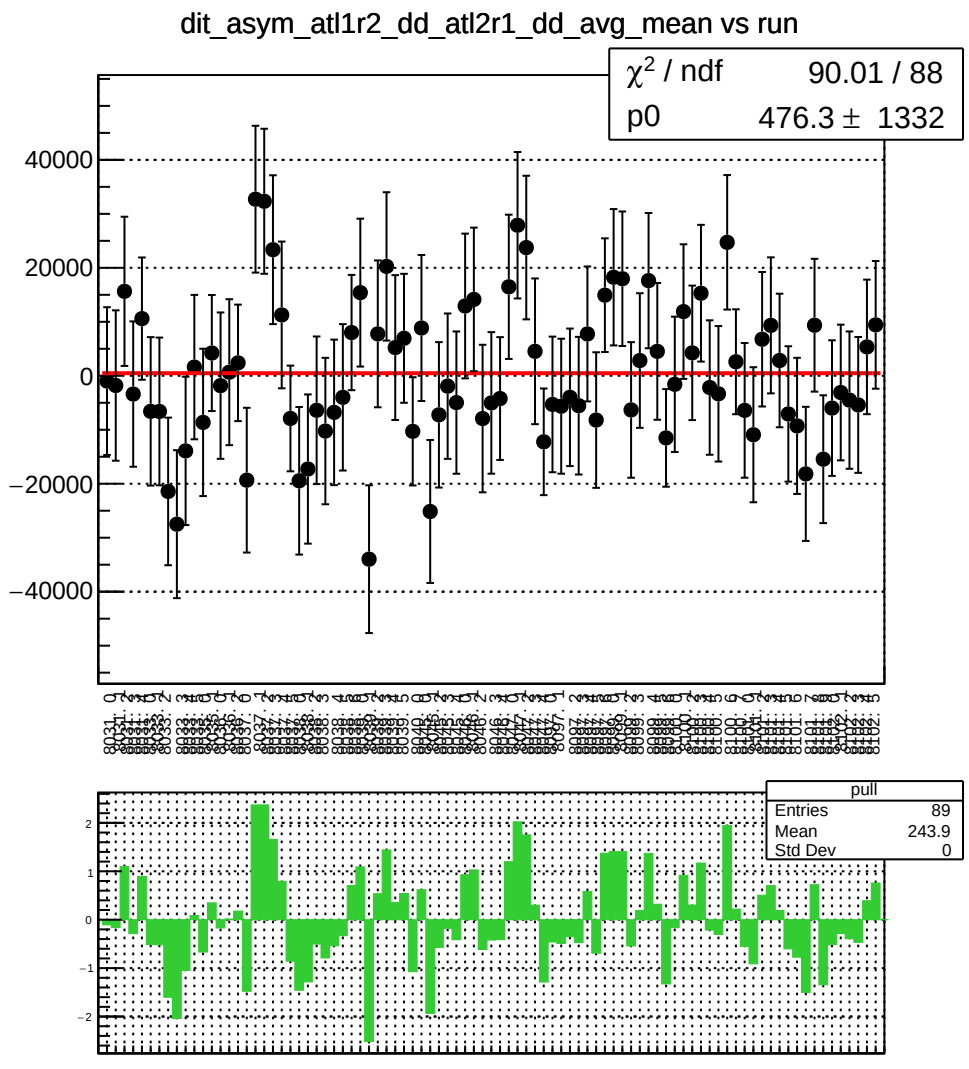

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 91.92 / 88
p0 410.4 ± 1330
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 236.2
Std Dev 0
2
1
0
−1
−2

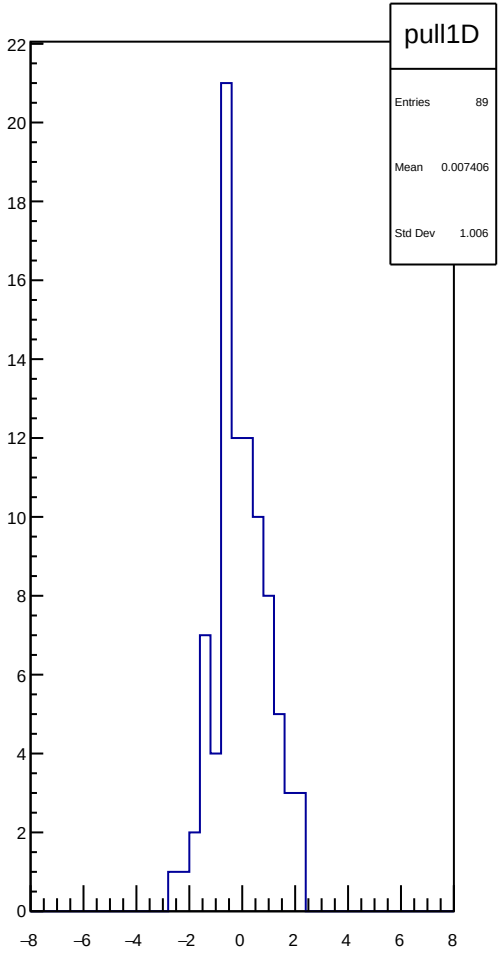

pull1D
Entries 89
Mean 0.007498
Std Dev 1.016
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

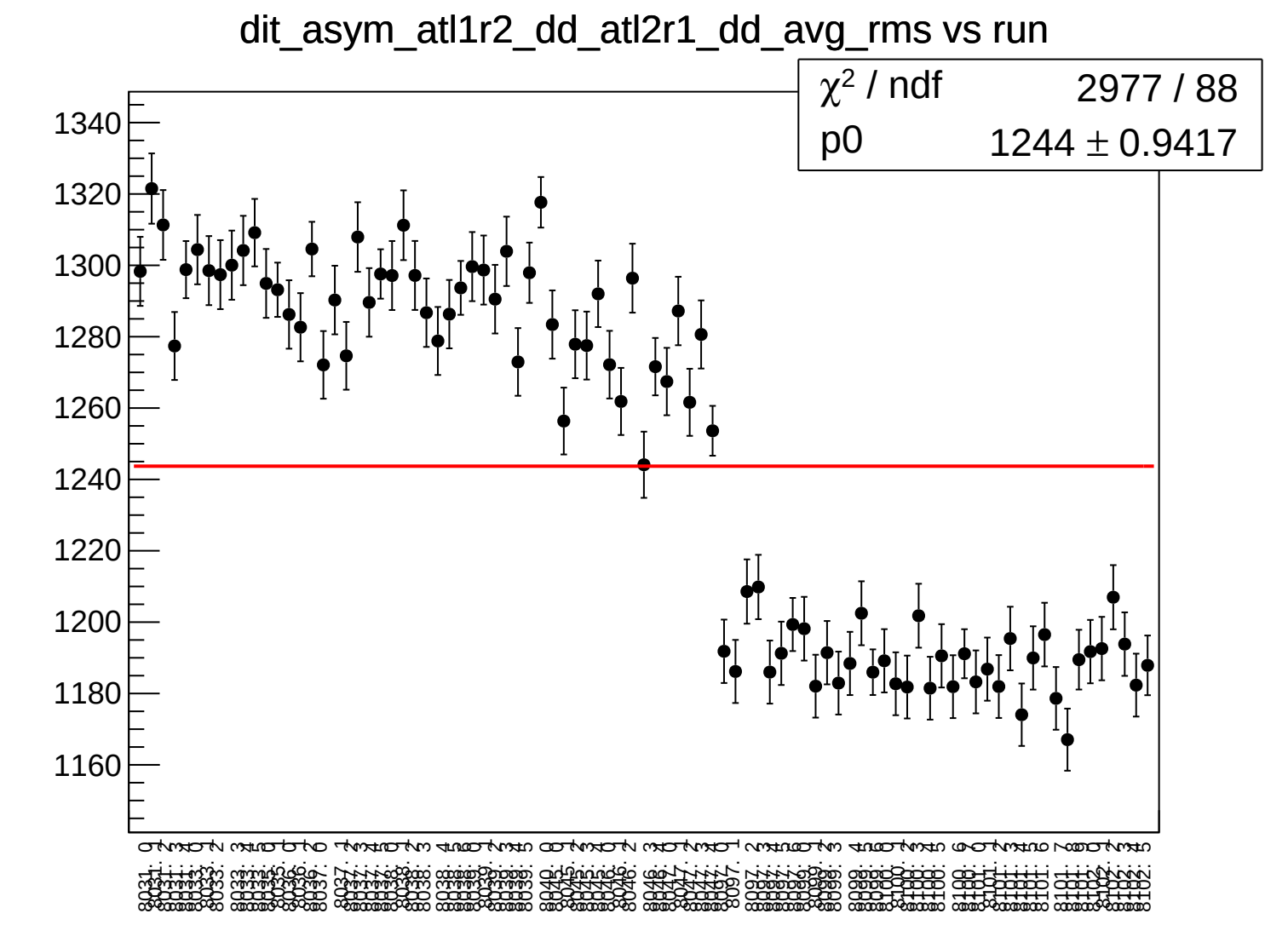

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 2889 / 88
p0 1242 ± 0.9402
1340
1320
1300
1280
1260
1240
1220
1200
1180
1160

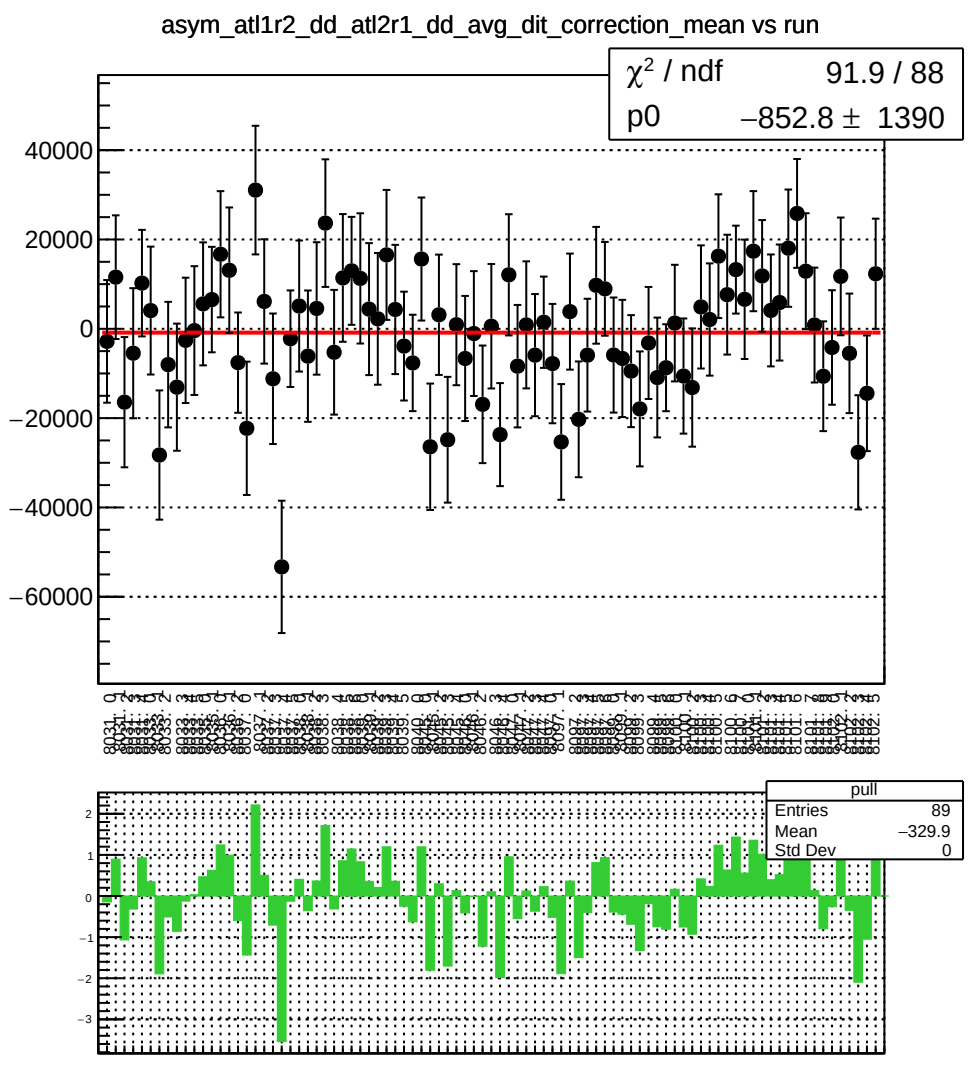

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 92.1 / 88
p0 −846.3 ± 1406
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −188.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.007663
Std Dev 1.017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

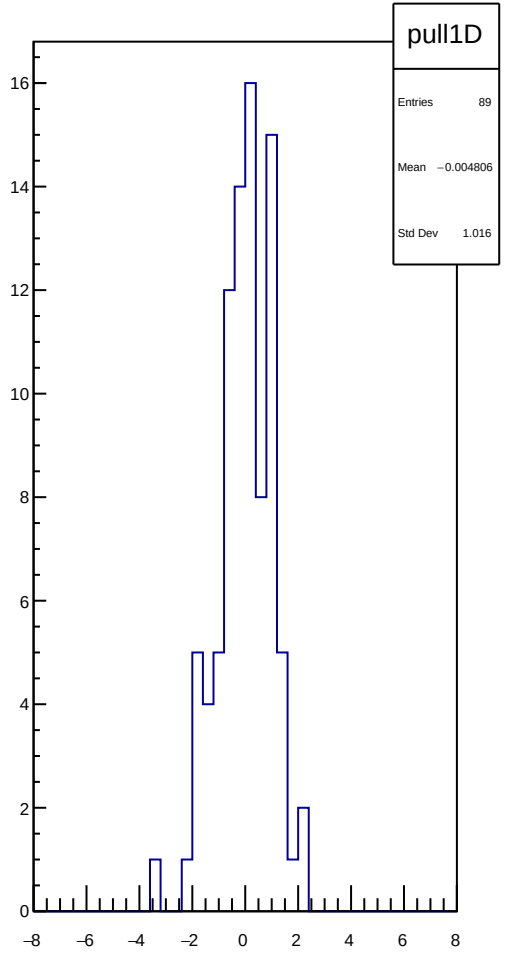

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.247e+04 / 88
p0 1309 ± 0.994
1500
1400
1300
1200
1100

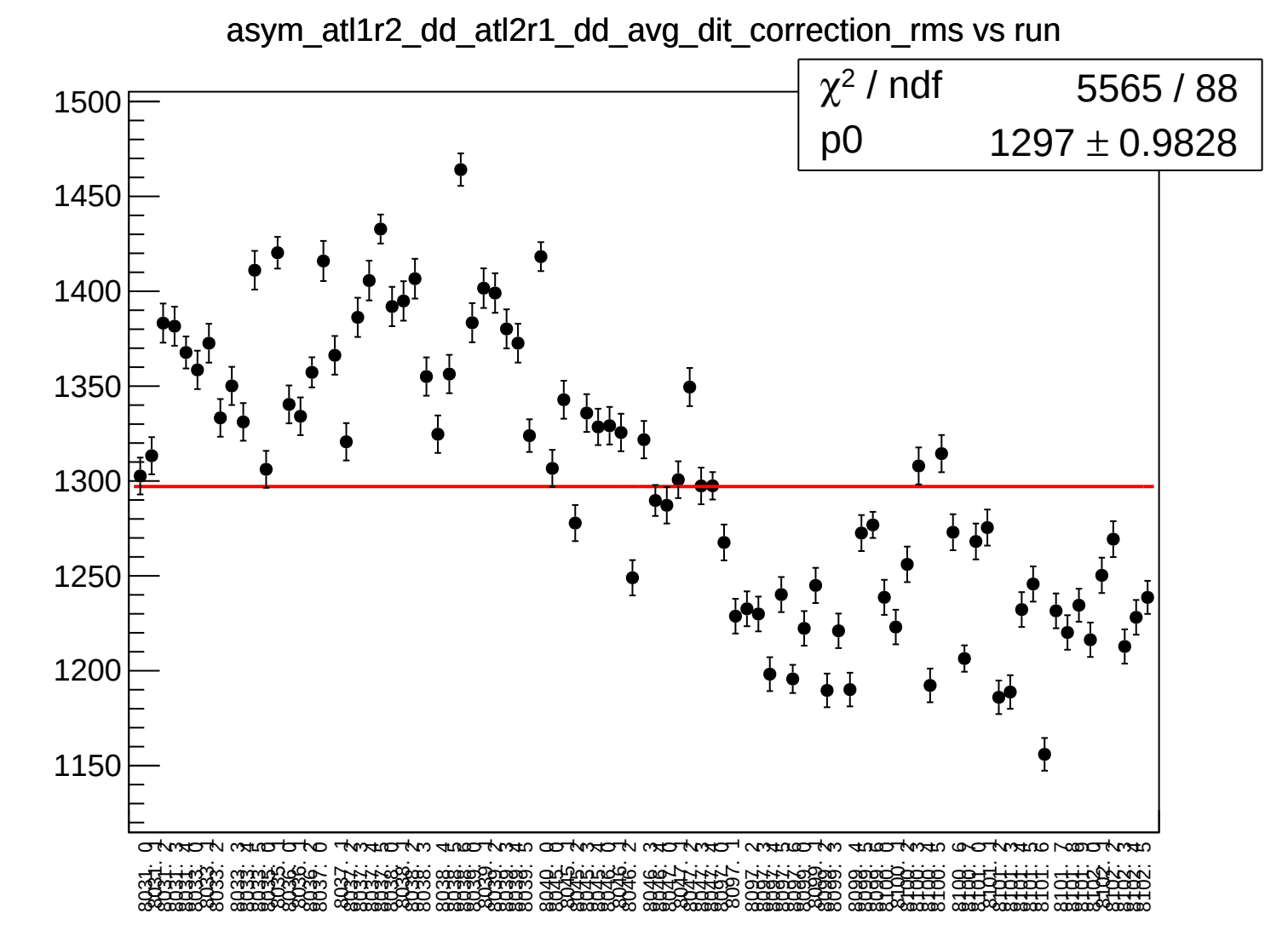

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 90.01 / 88
p0 476.3 ± 1332
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 243.9
Std Dev 0
2
1
0
−1
−2

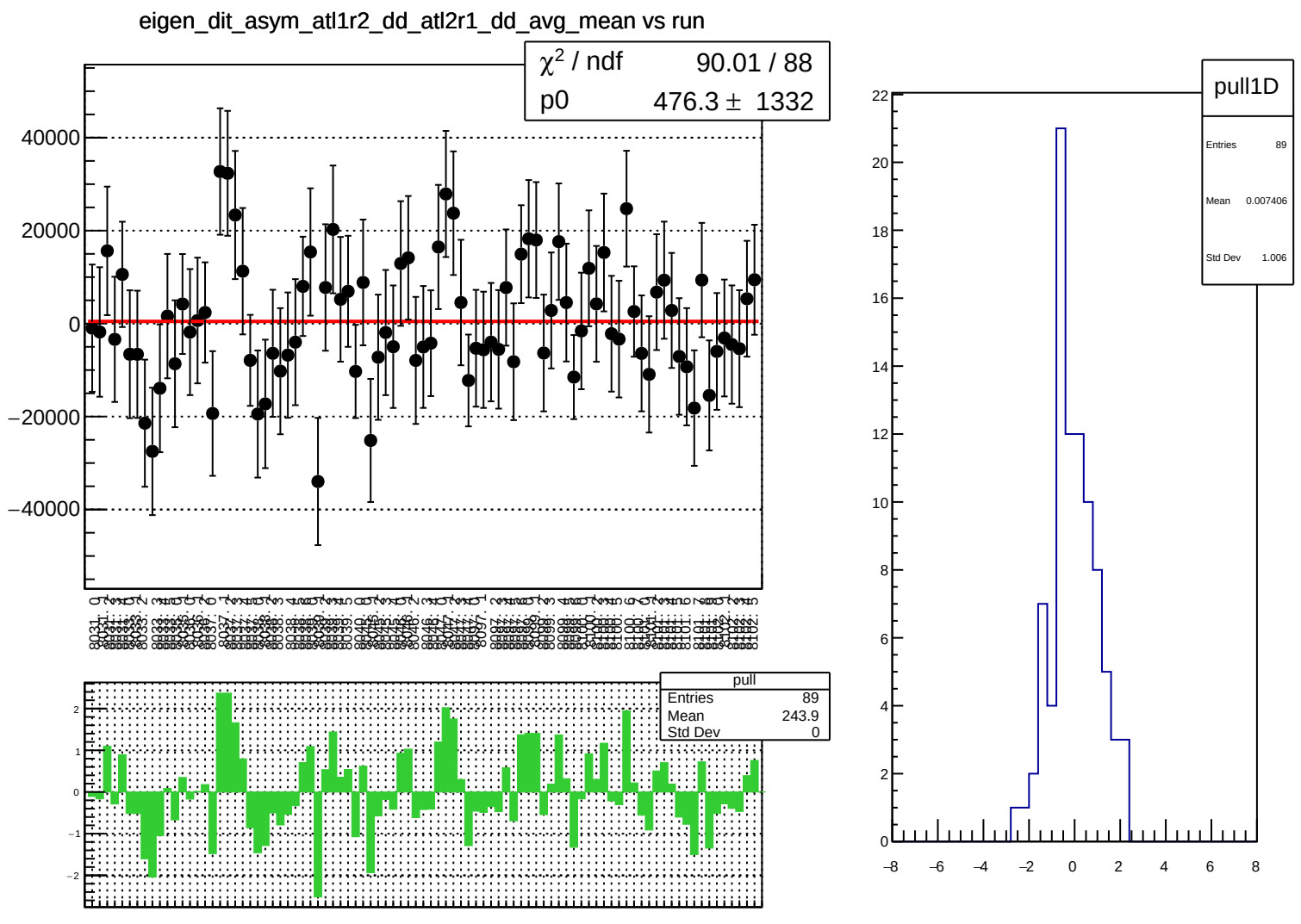

pull1D
Entries 89
Mean 0.007406
Std Dev 1.006
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

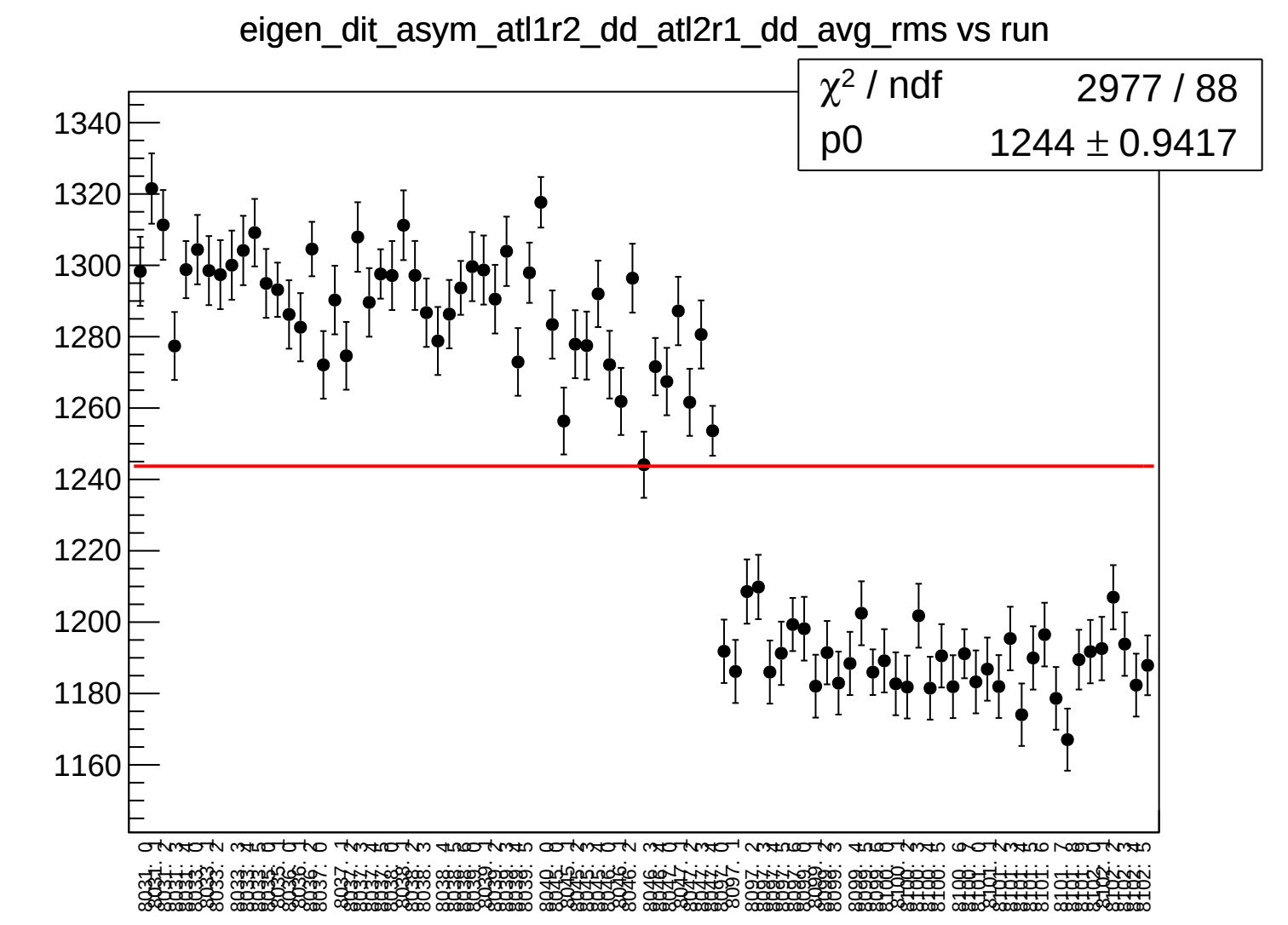

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 2977 / 88
p0 1244 ± 0.9417
1340
1320
1300
1280
1260
1240
1220
1200
1180
1160

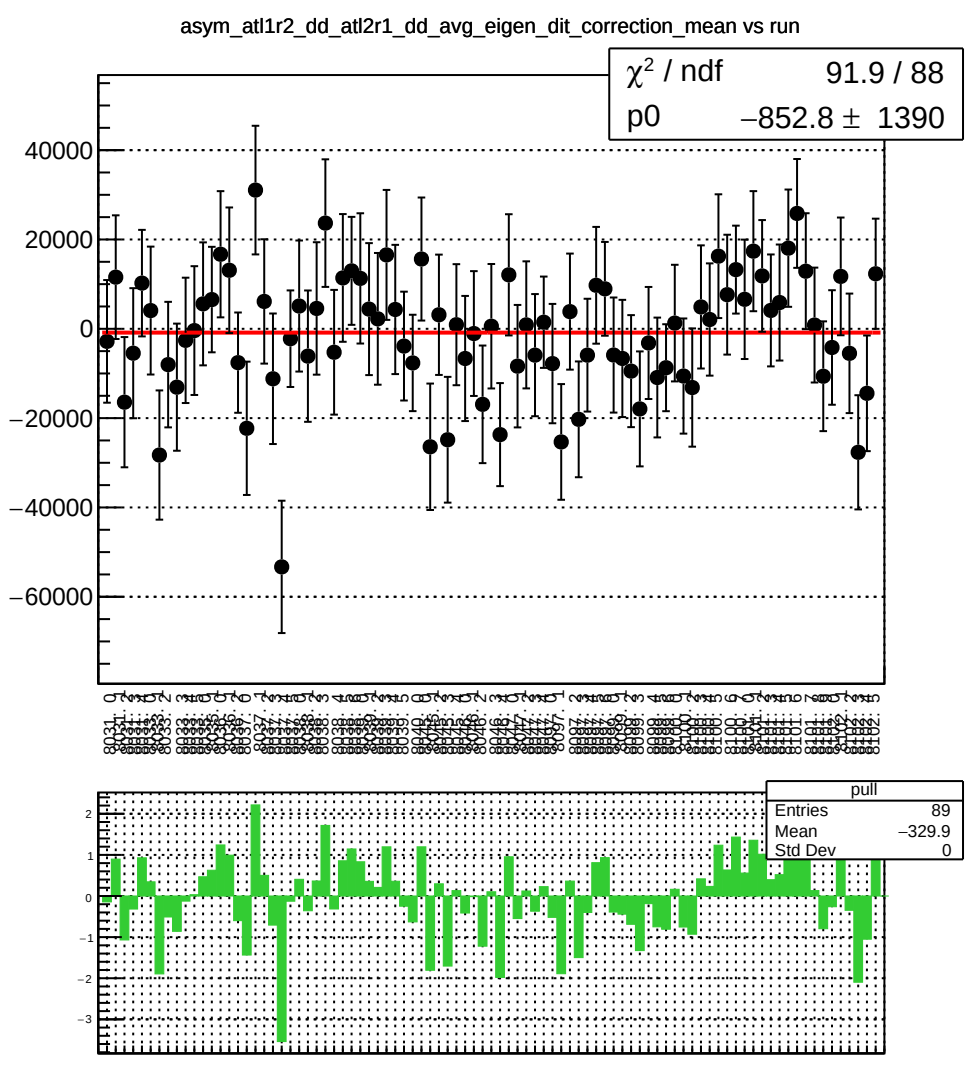

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 91.9 / 88
p0 −852.8 ± 1390
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −329.9
Std Dev 0
2
1
0
−1
−2
−3

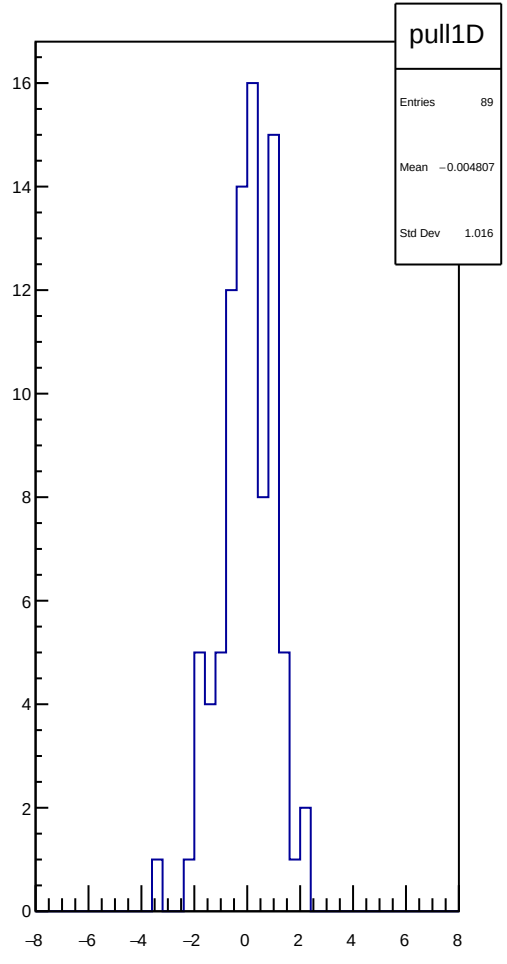

pull1D
Entries 89
Mean −0.004806
Std Dev 1.016
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

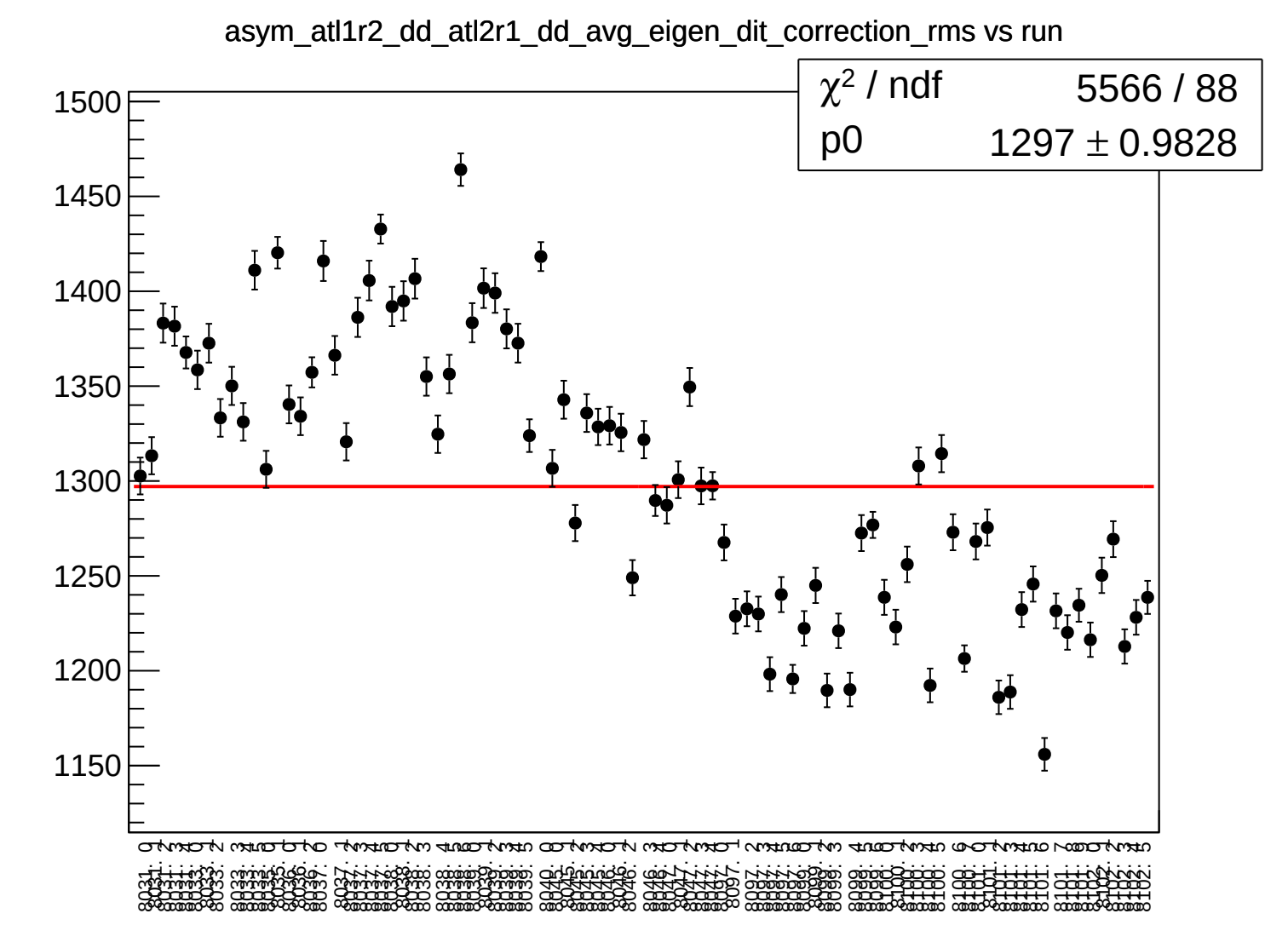

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 5565 / 88
p0 1297 ± 0.9828
1500
1450
1400
1350
1300
1250
1200
1150

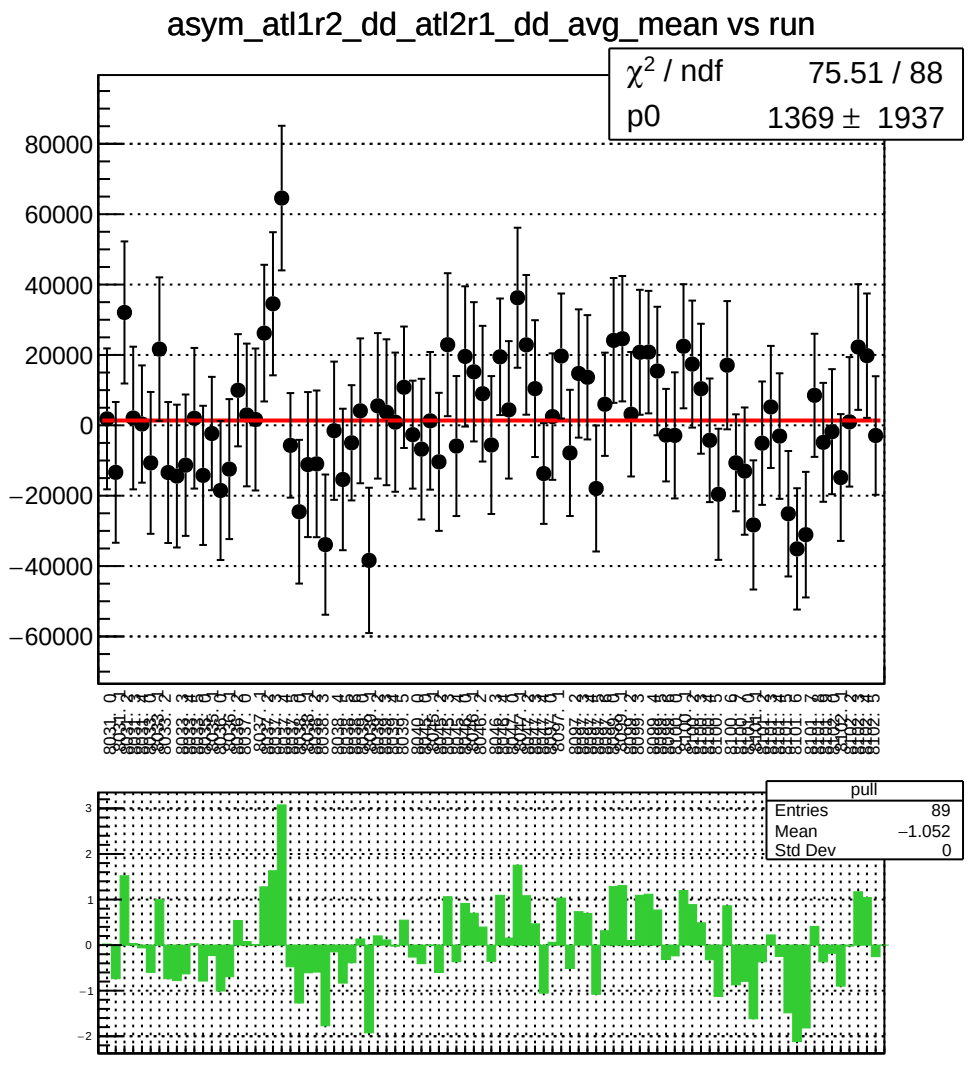

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 90.01 / 88
p0 476.3 ± 1332
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 243.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.007406
Std Dev 1.006
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

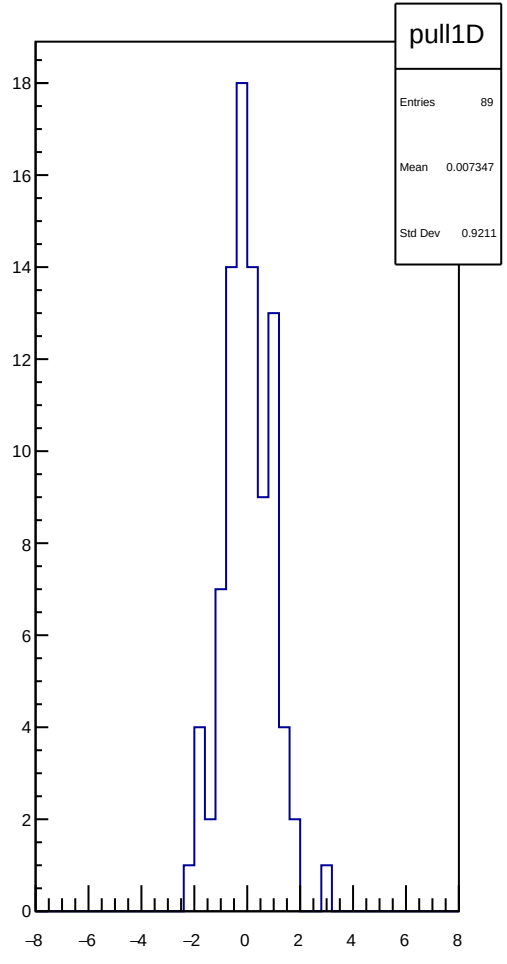

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 2977 / 88
p0 1244 ± 0.9417
1340
1320
1300
1280
1260
1240
1220
1200
1180
1160

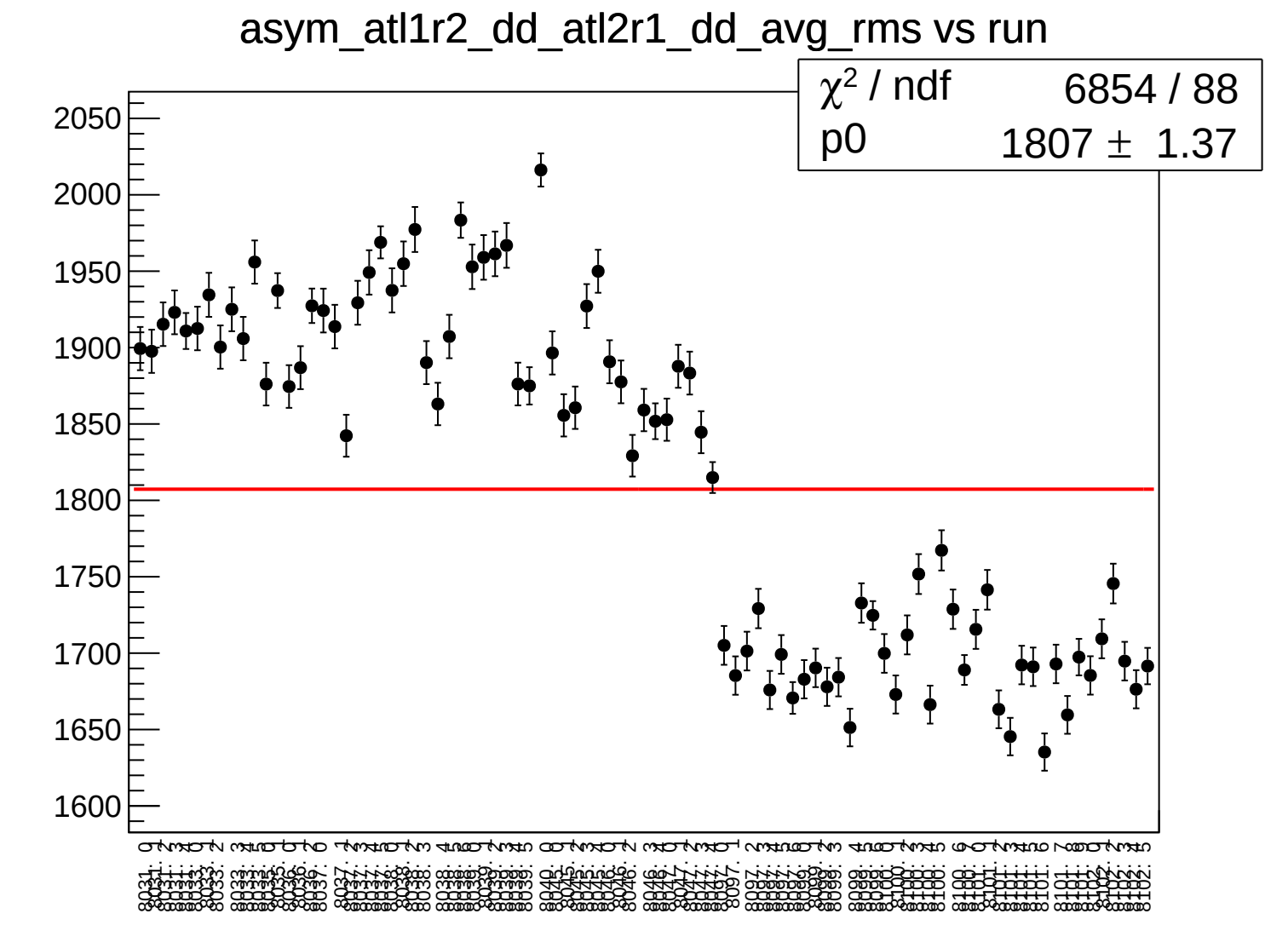

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 91.9 / 88
p0 −852.8 ± 1390
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −329.9
Std Dev 0
2
1
0
−1
−2
−3

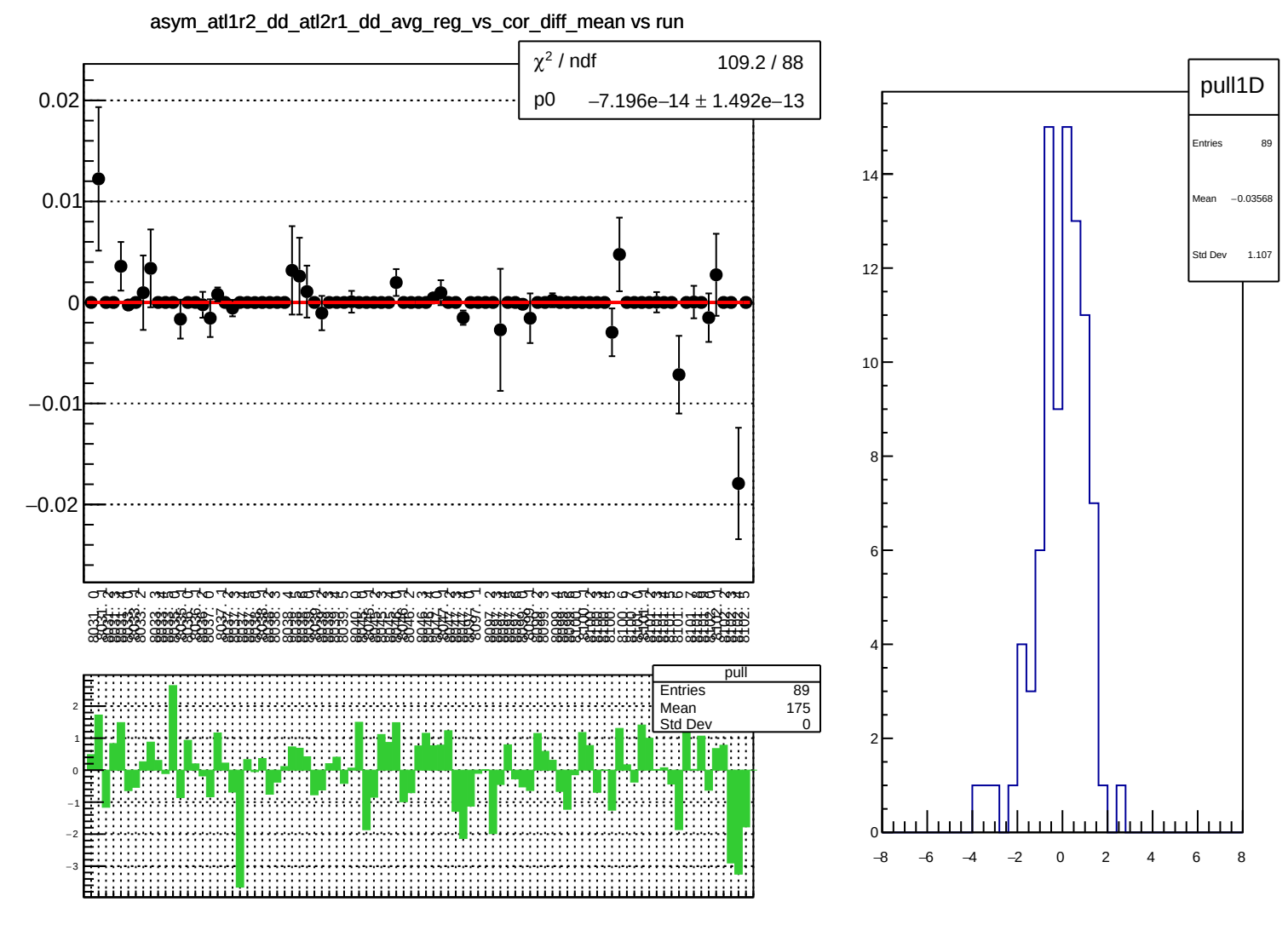

pull1D
Entries 89
Mean −0.004807
Std Dev 1.016
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

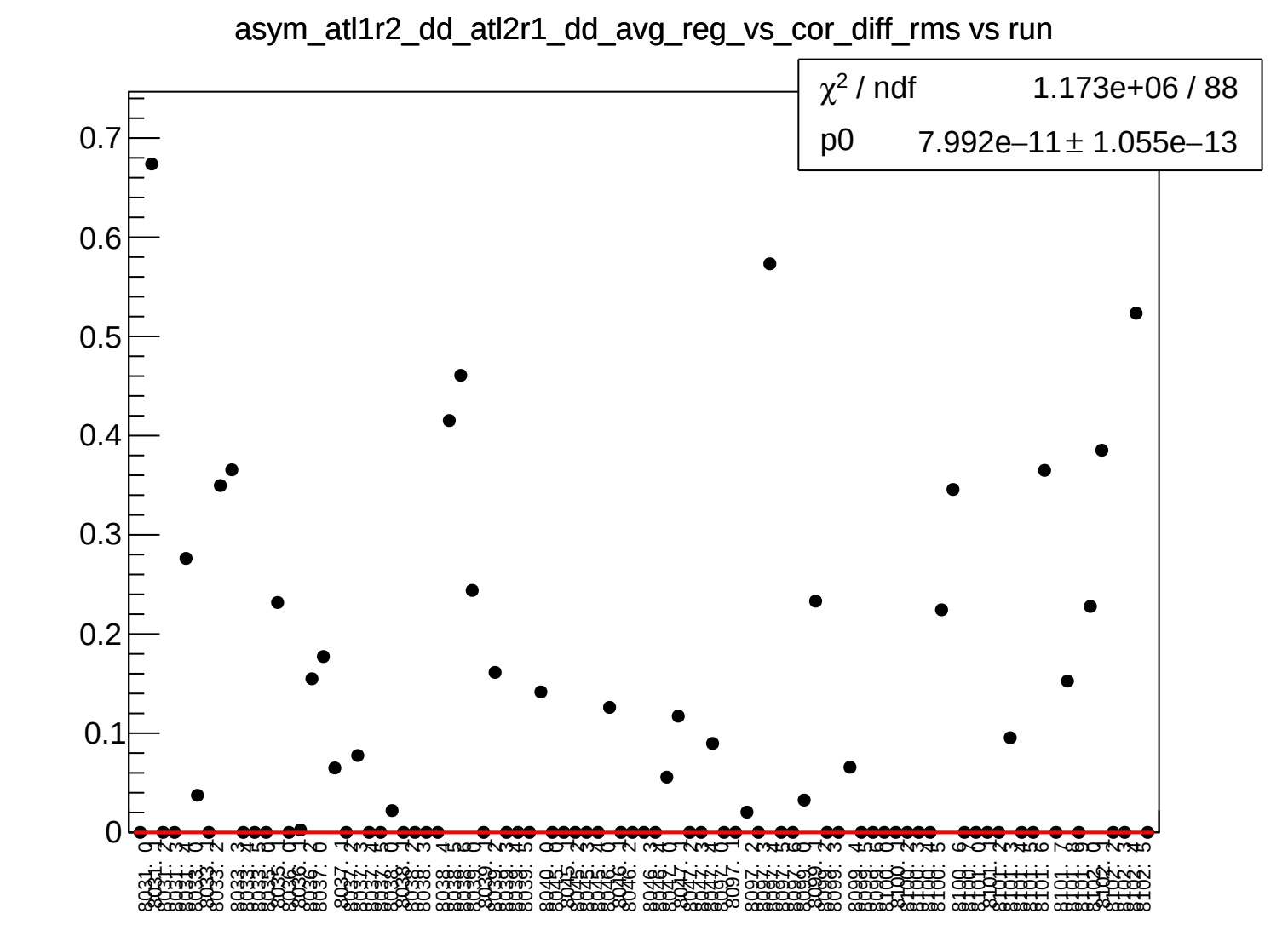

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 5566 / 88
p0 1297 ± 0.9828
1500
1450
1400
1350
1300
1250
1200
1150

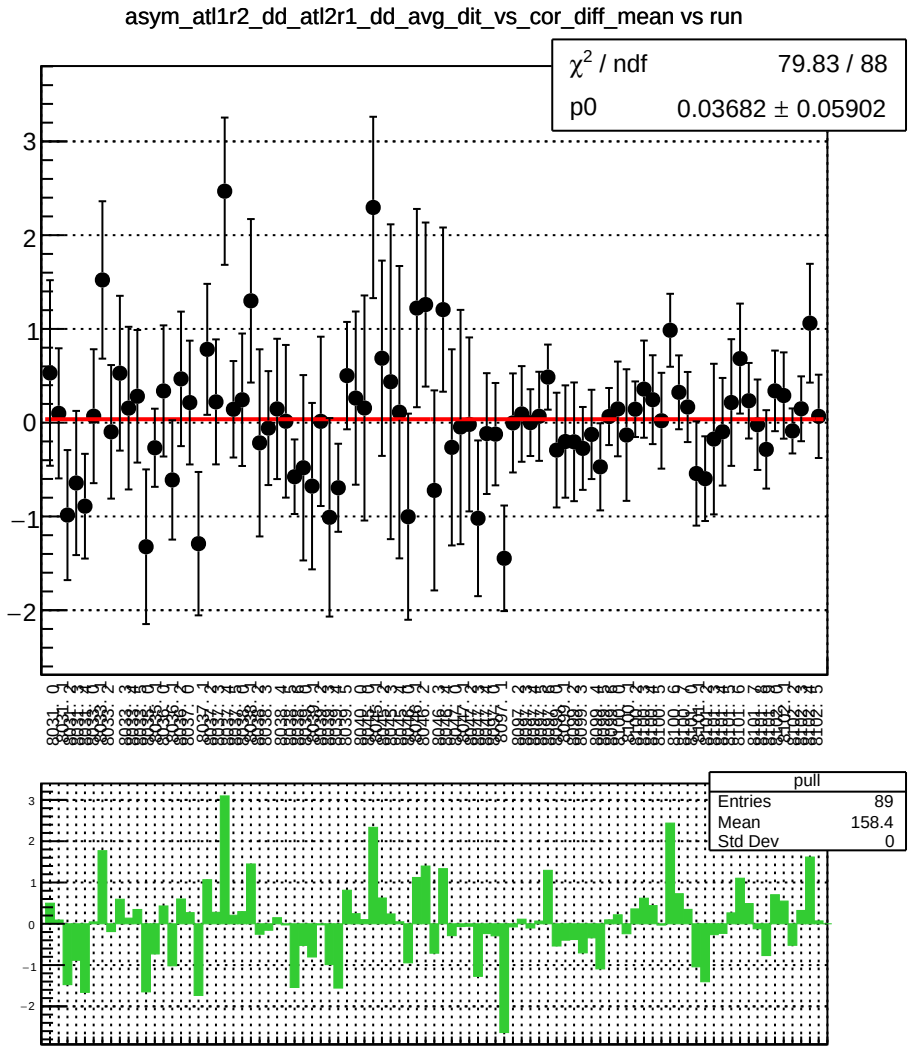

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 75.51 / 88
p0 1369 ± 1937
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −1.052
Std Dev 0
3
2
1
0
−1
−2

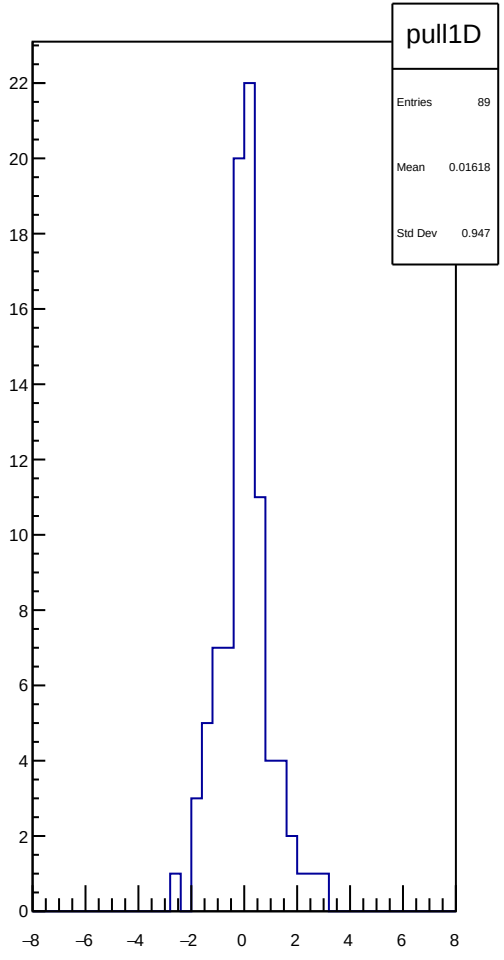

pull1D
Entries 89
Mean 0.007347
Std Dev 0.9211
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

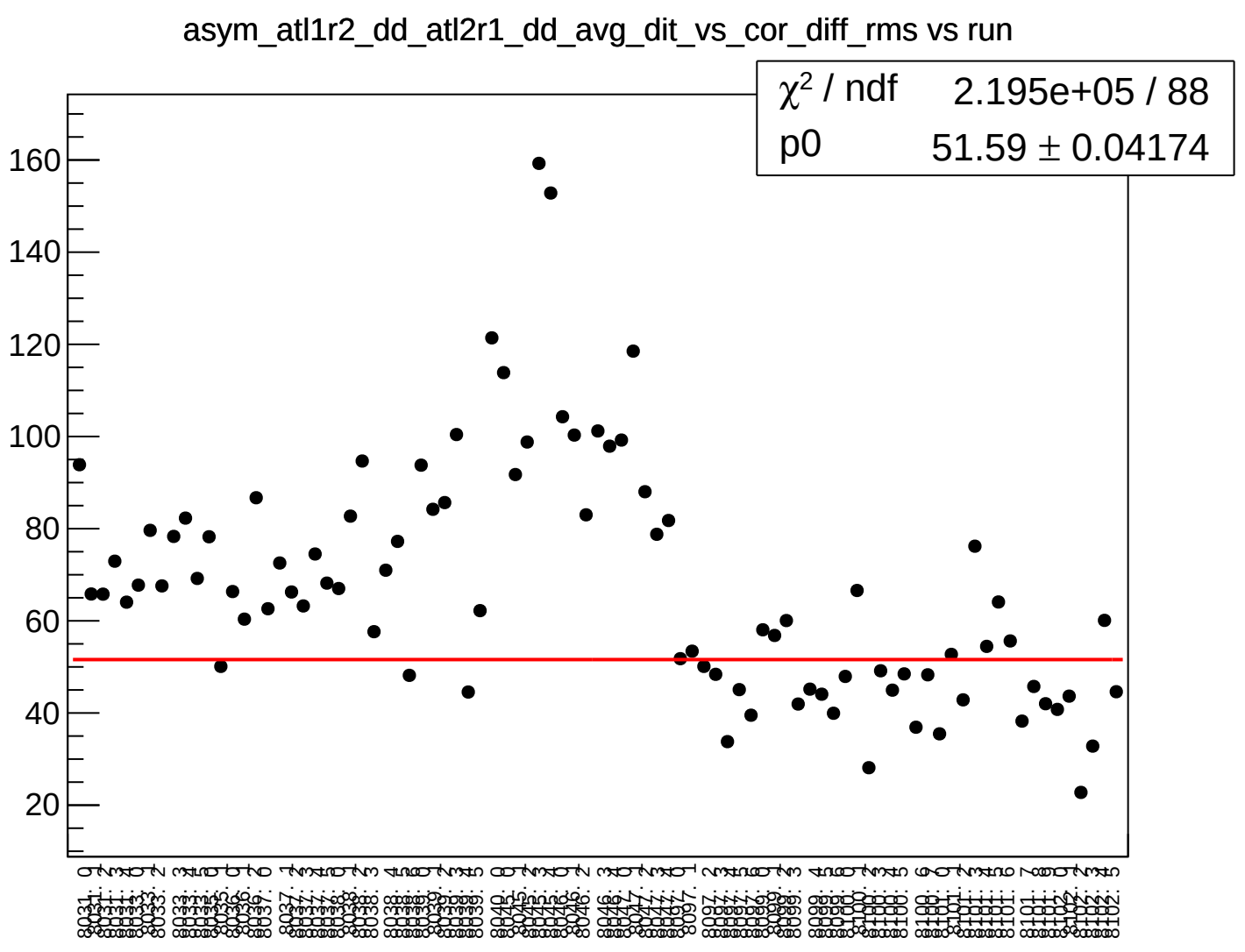

asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 6854 / 88
p0 1807 ± 1.37
2050
2000
1950
1900
1850
1800
1750
1700
1650
1600

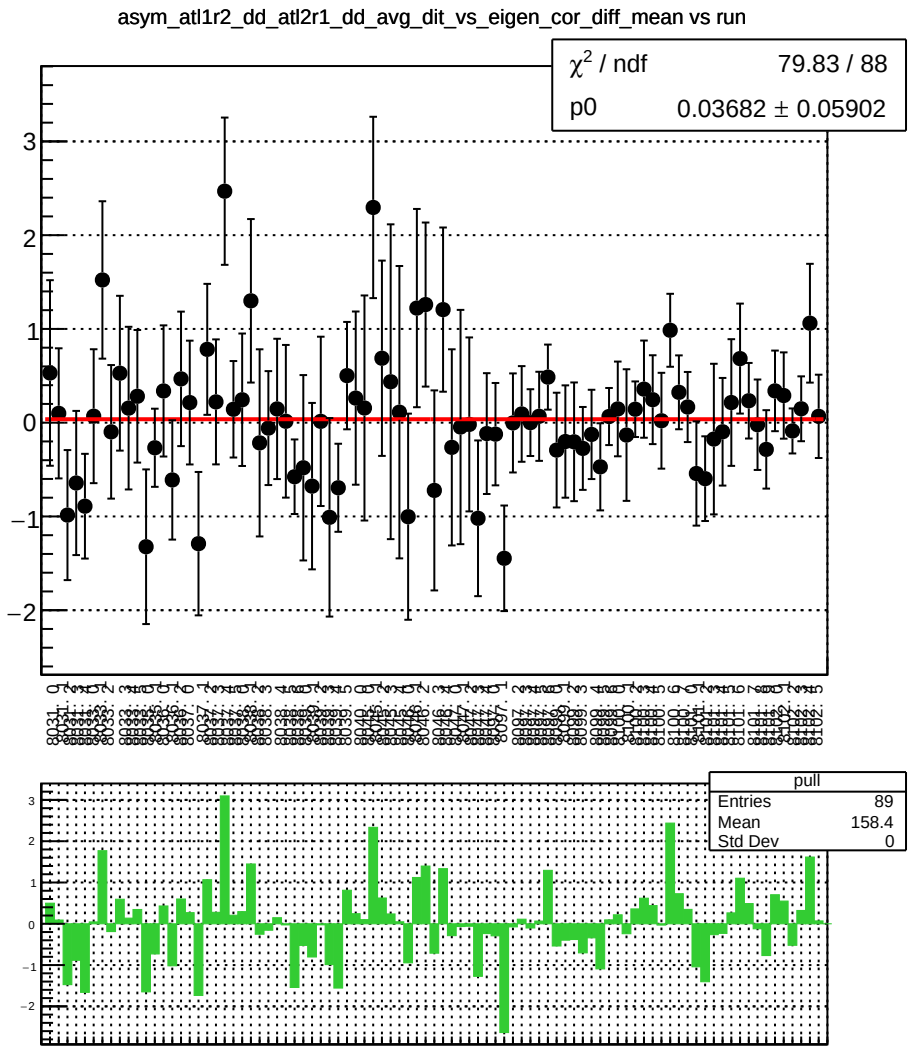

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 109.2 / 88
p0 −7.196e−14 ± 1.492e−13
0.02
0.01
0
−0.01
−0.02
pull
Entries 89
Mean 175
Std Dev 0
pull1D
Entries 89
Mean −0.03568
Std Dev 1.107
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

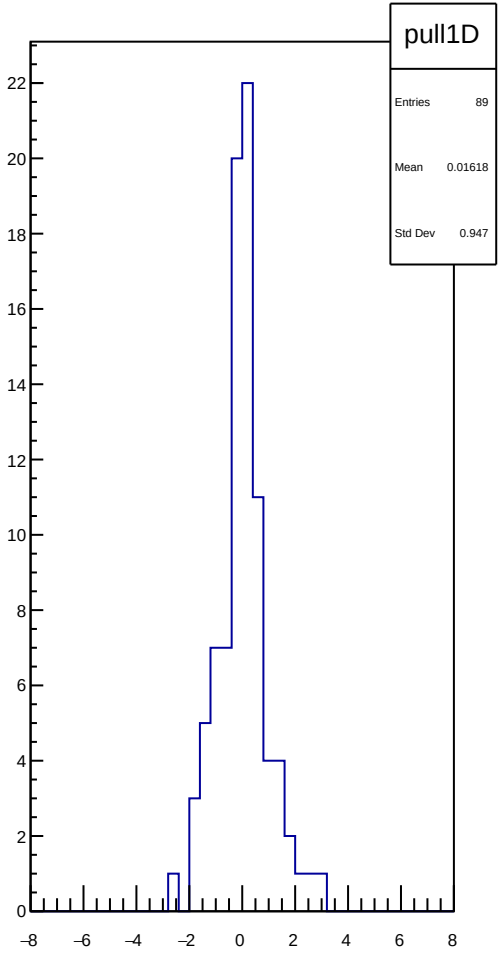

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.173e+06 / 88
p0 7.992e−11 ± 1.055e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

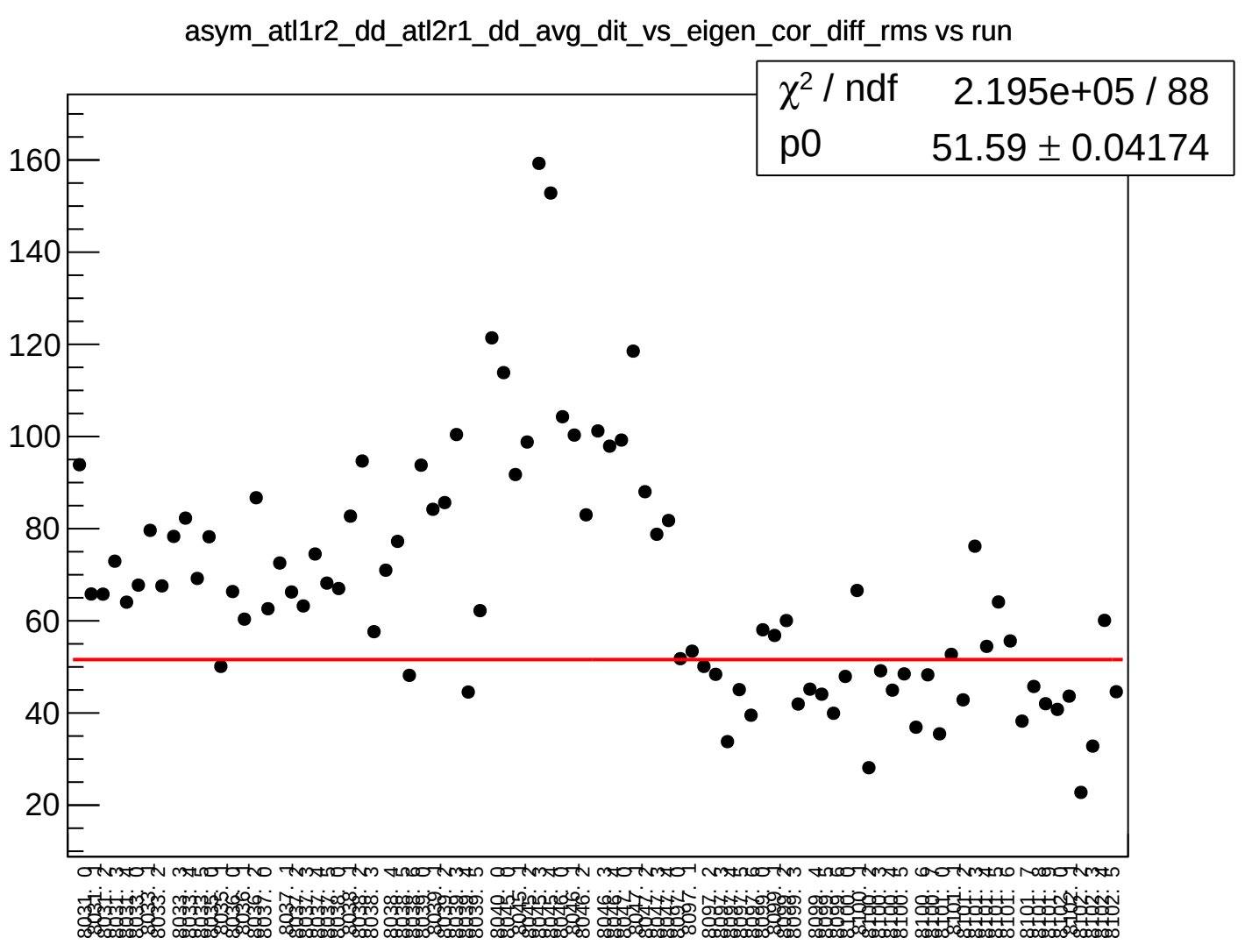

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 79.83 / 88
p0 0.03682 ± 0.05902
pull
Entries 89
Mean 158.4
Std Dev 0

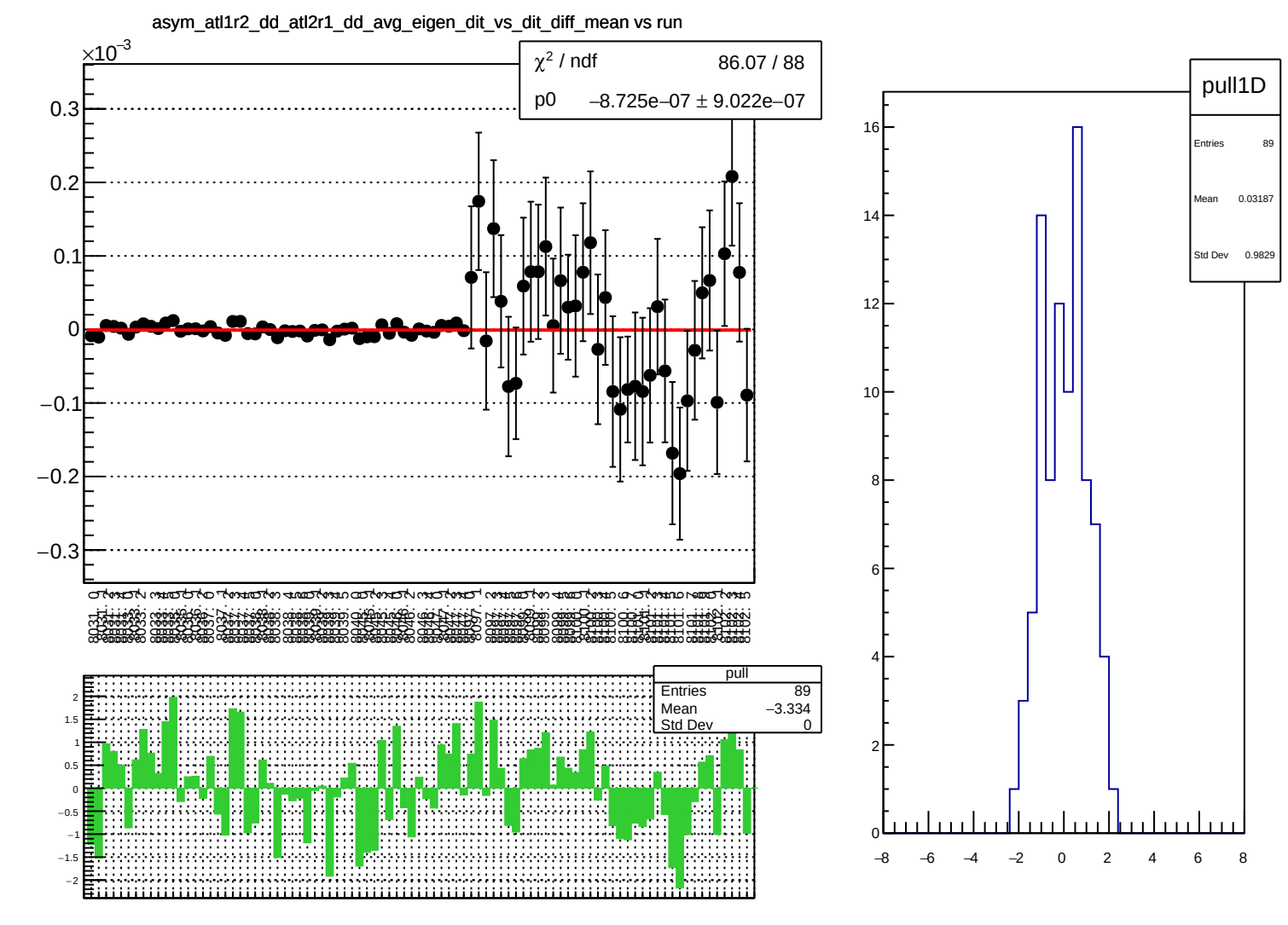

pull1D
Entries 89
Mean 0.01618
Std Dev 0.947

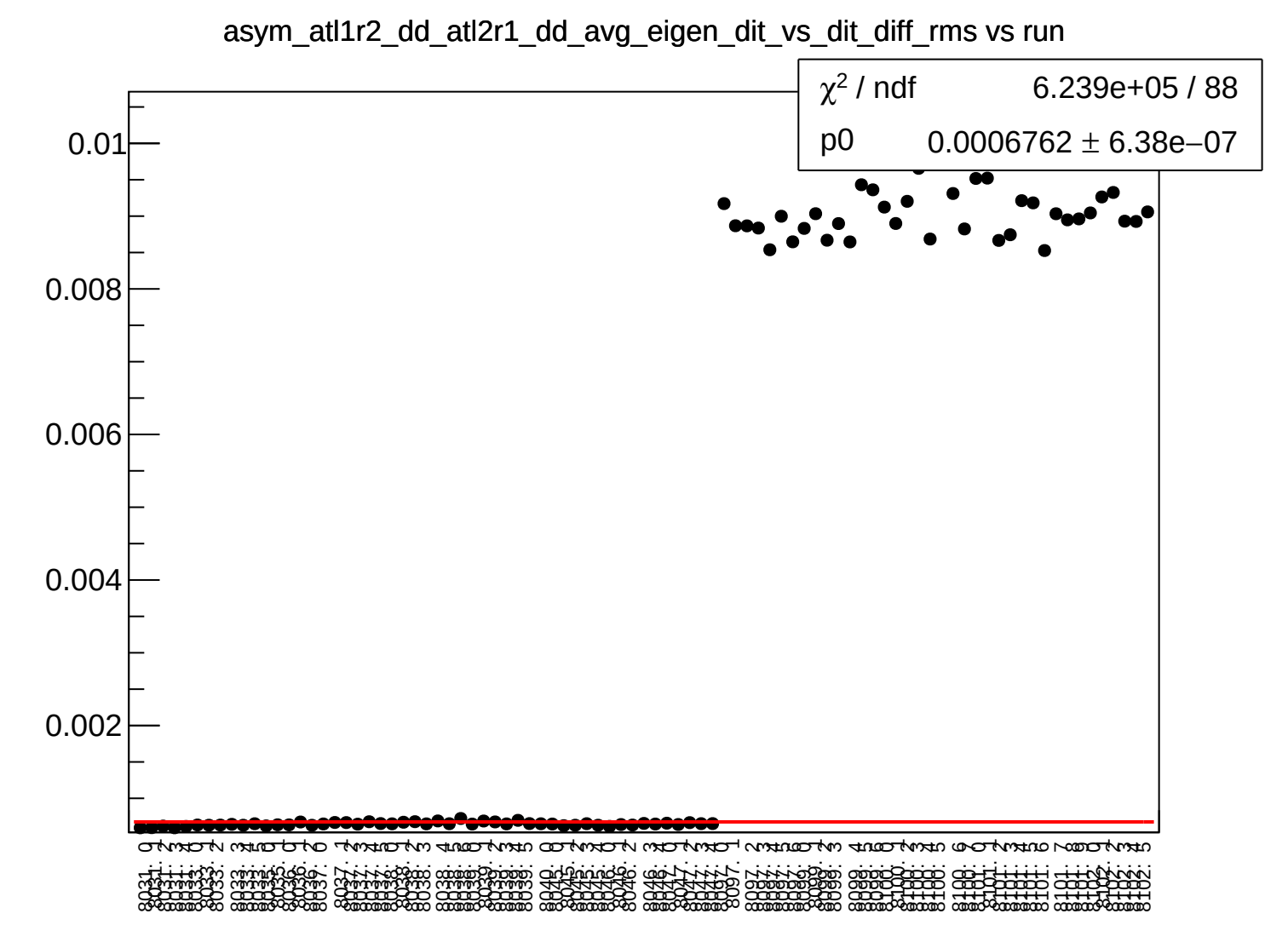

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.195e+05 / 88
p0 51.59 ± 0.04174
160
140
120
100
80
60
40
20

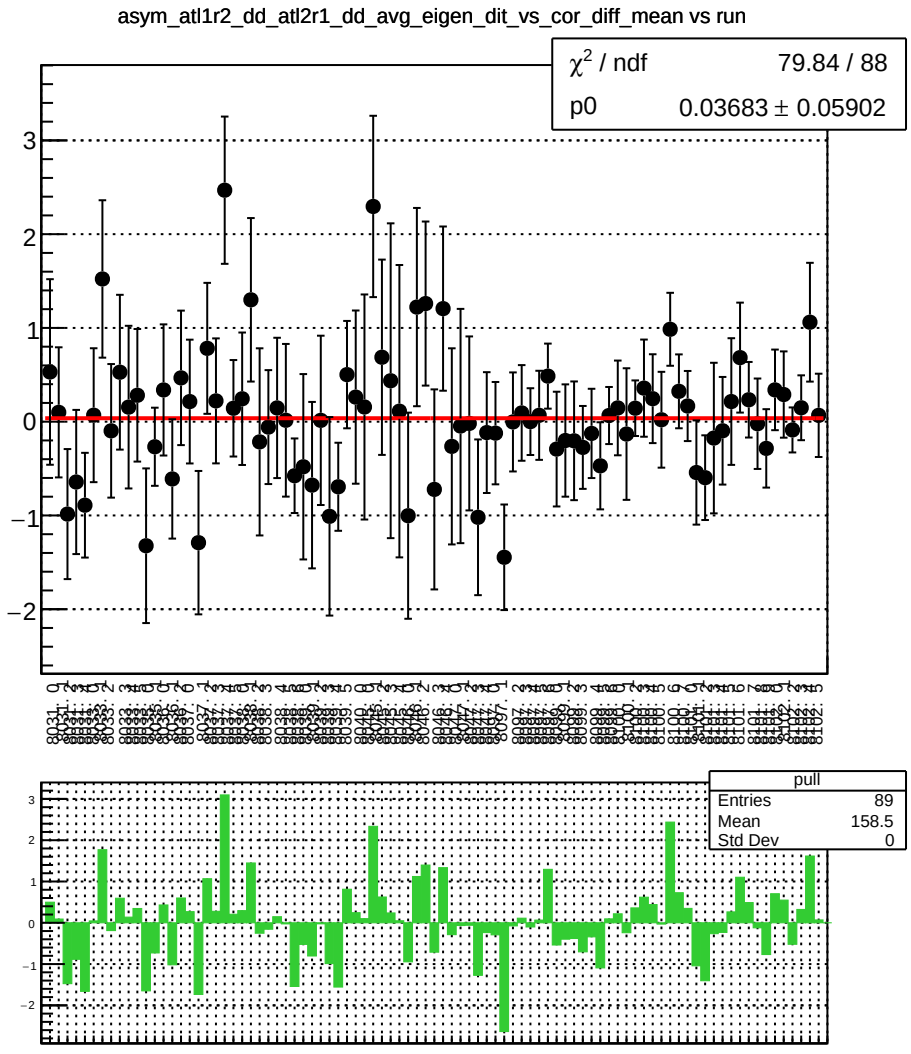

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
$\chi^2$ / ndf 79.83 / 88
p0 0.03682 ± 0.05902
pull
Entries 89
Mean 158.4
Std Dev 0

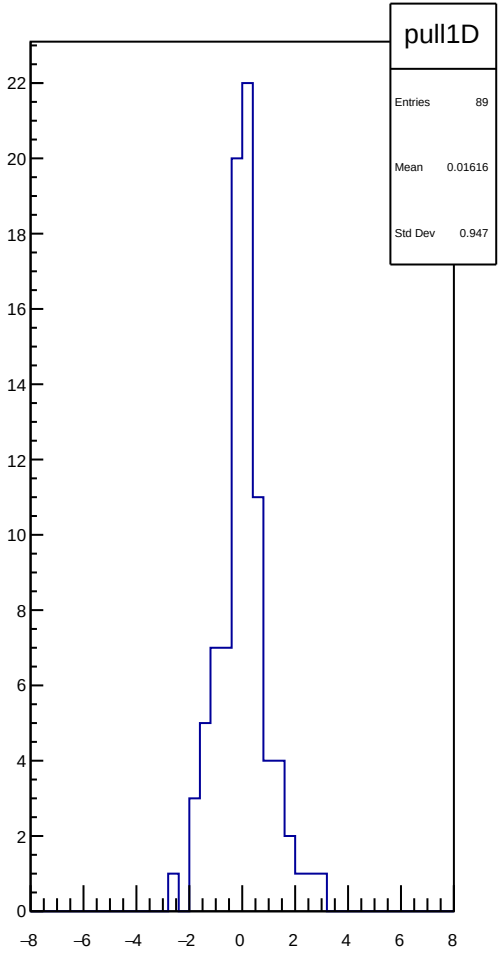

pull1D
Entries 89
Mean 0.01618
Std Dev 0.947

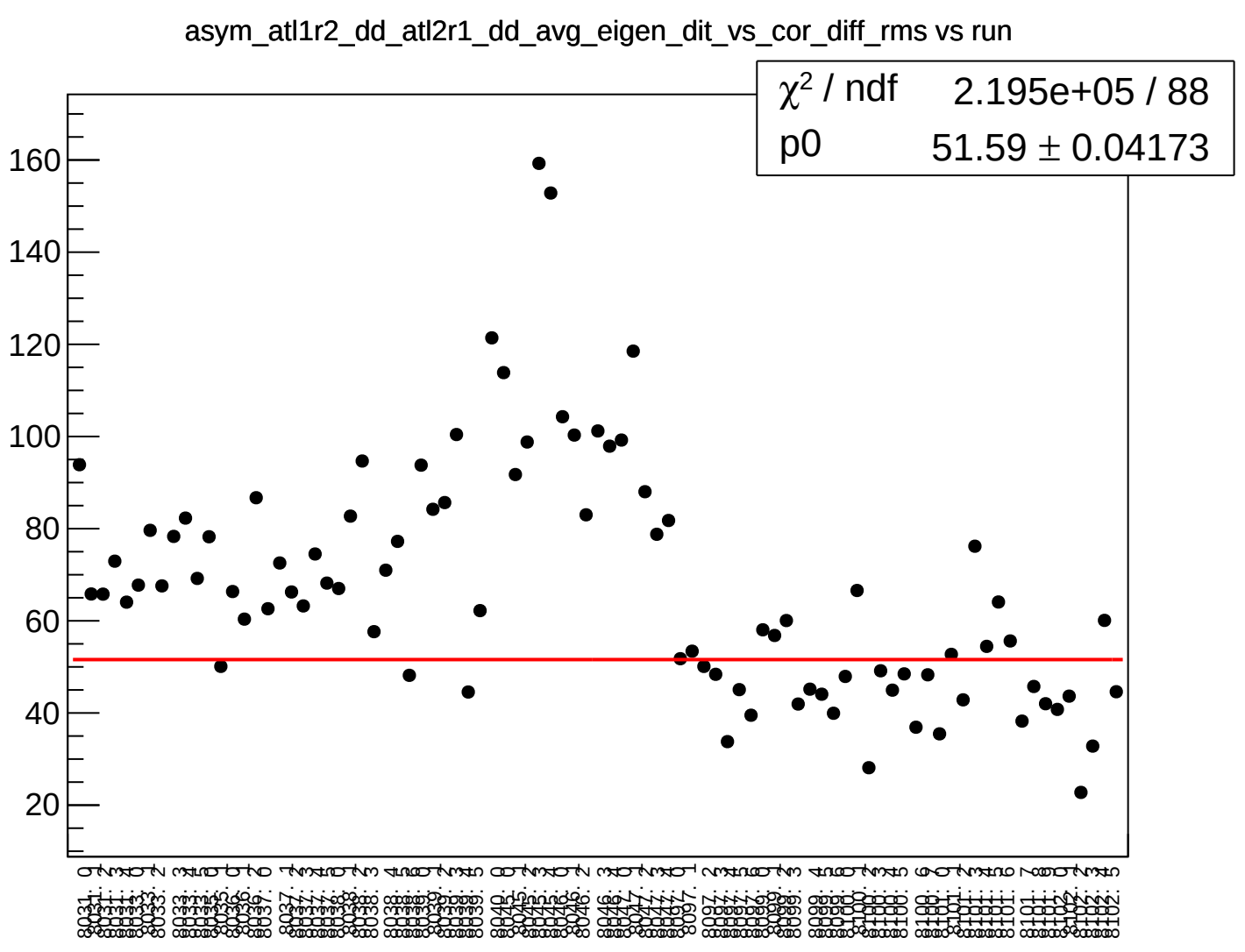

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.195e+05 / 88
p0 51.59 ± 0.04174
160
140
120
100
80
60
40
20

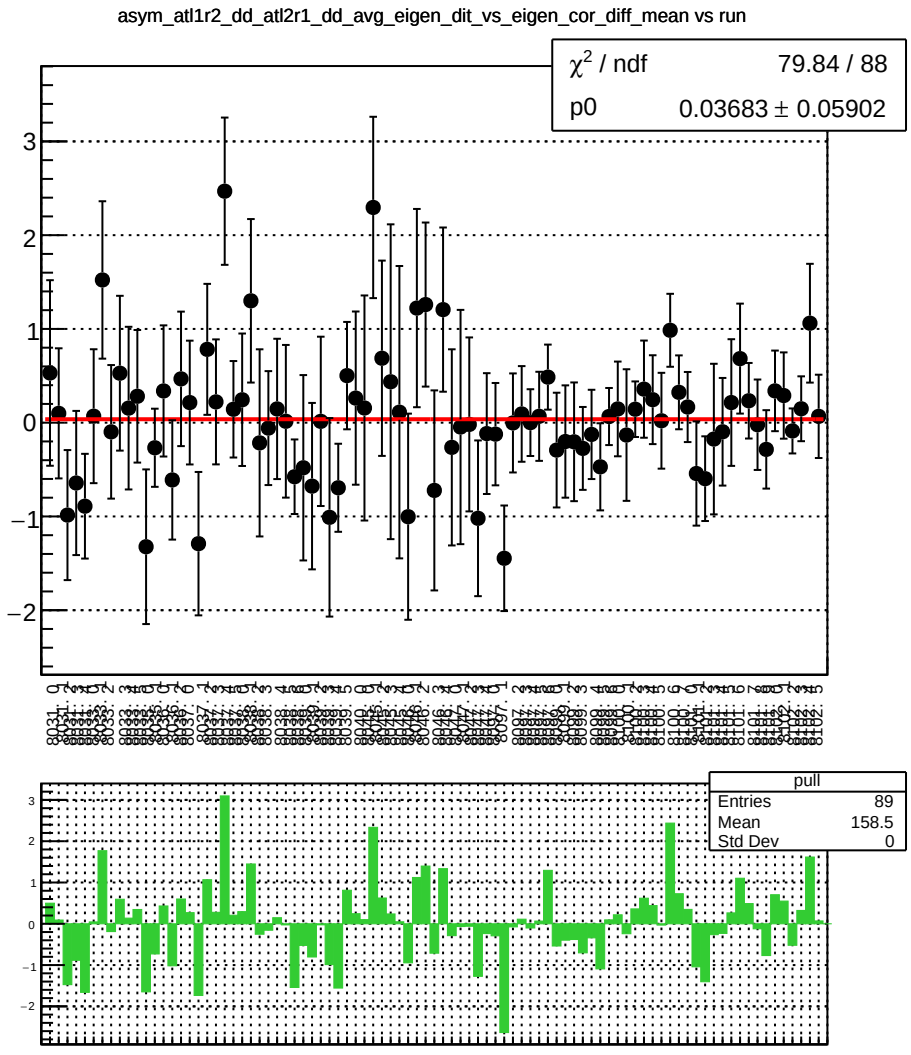

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 86.07 / 88
p0 −8.725e−07 ± 9.022e−07
pull
Entries 89
Mean −3.334
Std Dev 0
pull1D
Entries 89
Mean 0.03187
Std Dev 0.9829

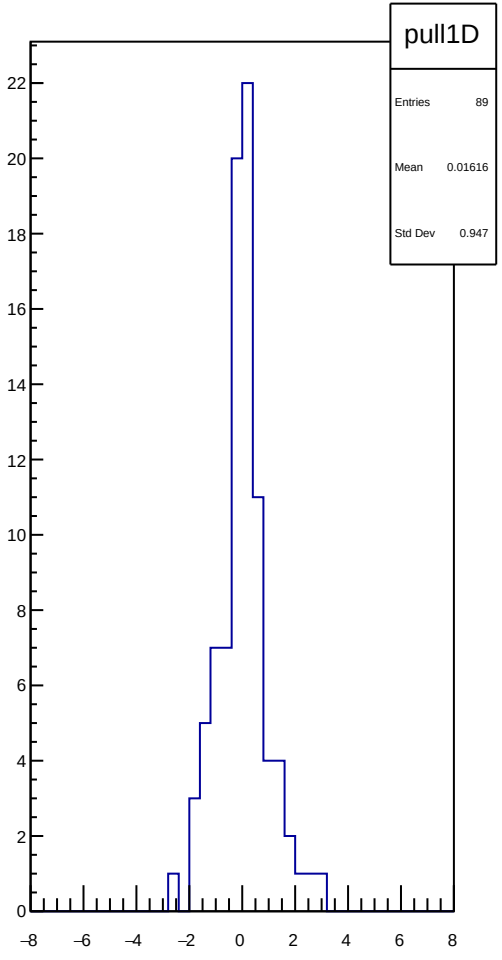

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.239e+05 / 88
p0 0.0006762 ± 6.38e−07
0.01
0.008
0.006
0.004
0.002

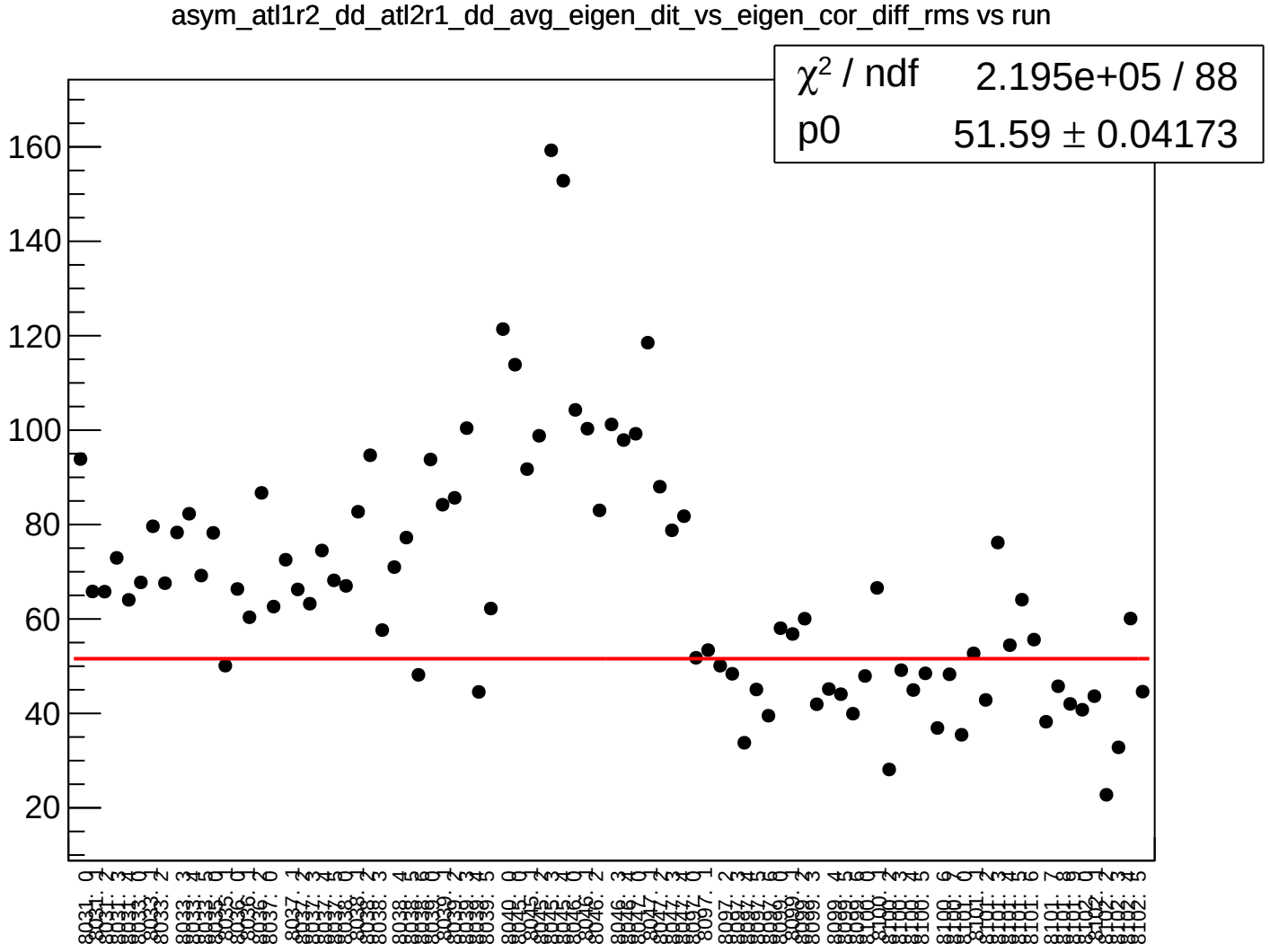

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.84 / 88
p0 0.03683 ± 0.05902
pull
Entries 89
Mean 158.5
Std Dev 0

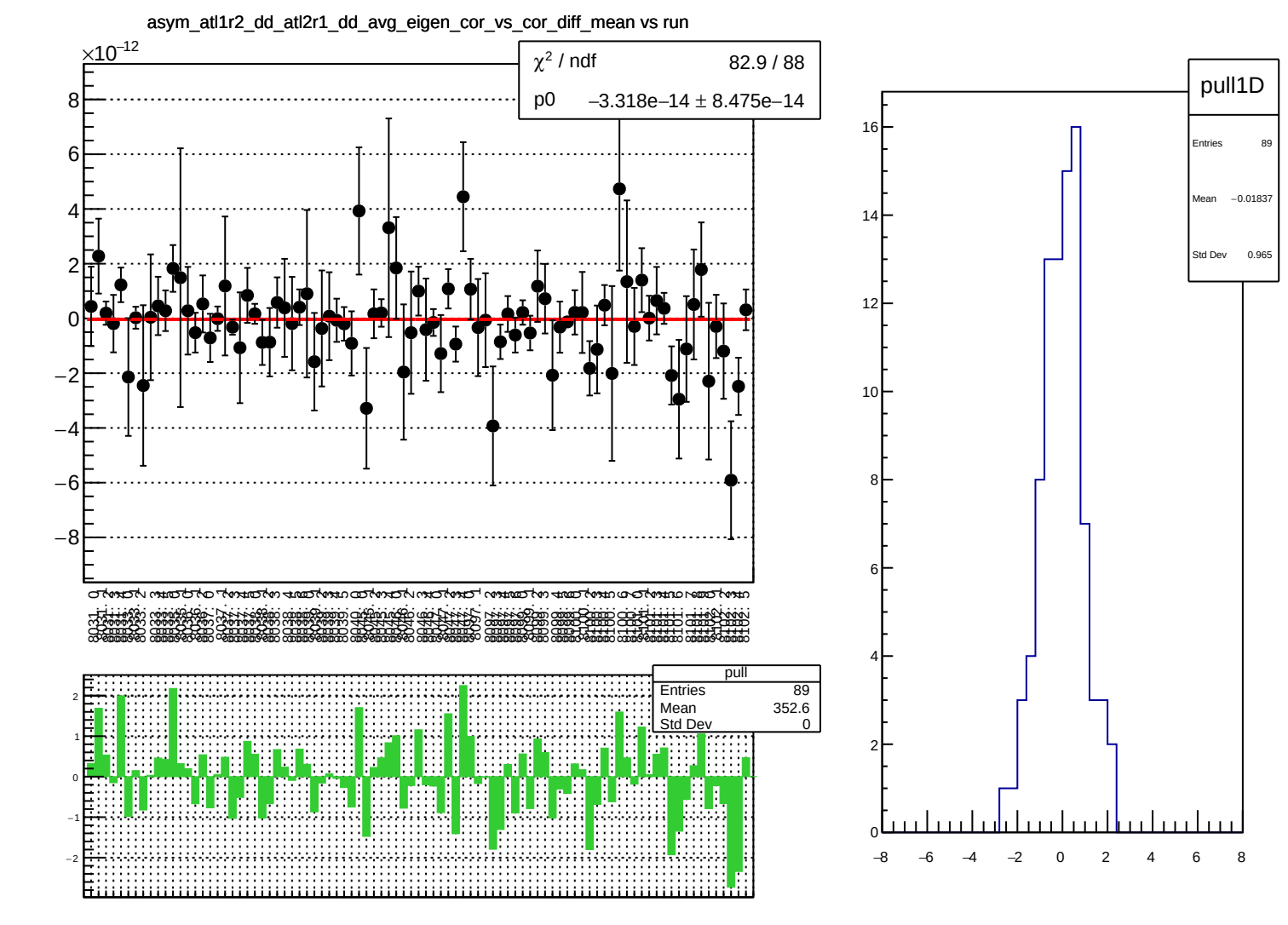

pull1D
Entries 89
Mean 0.01616
Std Dev 0.947

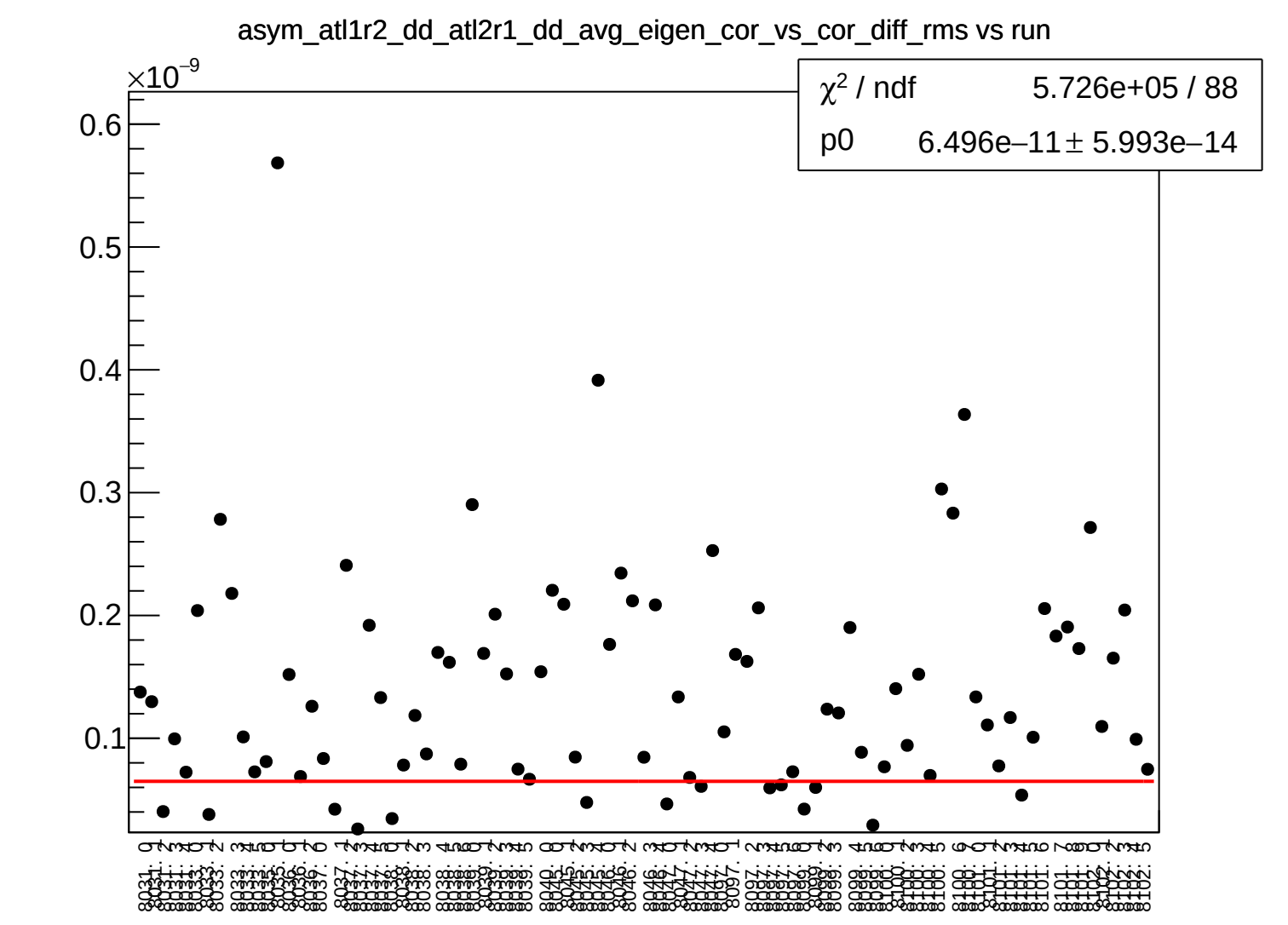

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.195e+05 / 88
p0 51.59 ± 0.04173
160
140
120
100
80
60
40
20

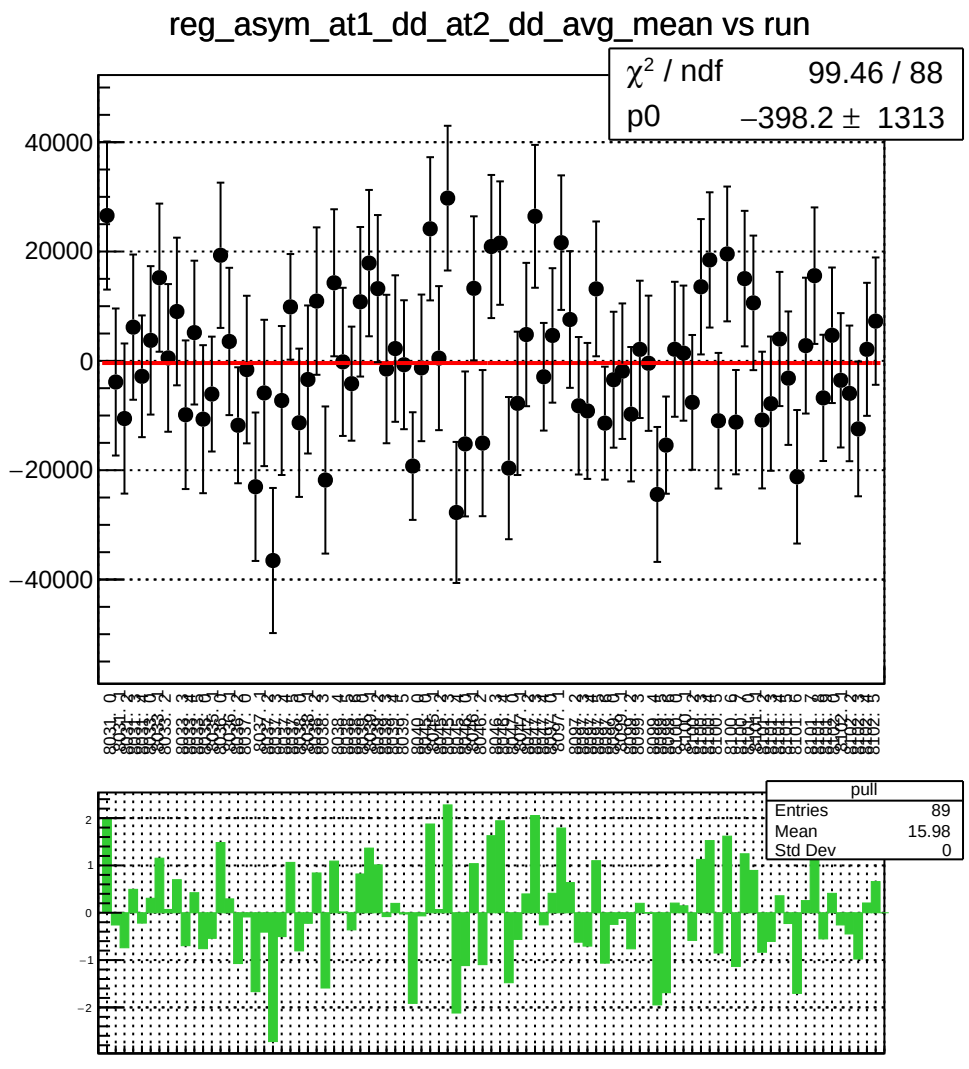

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.84 / 88
p0 0.03683 ± 0.05902
pull
Entries 89
Mean 158.5
Std Dev 0

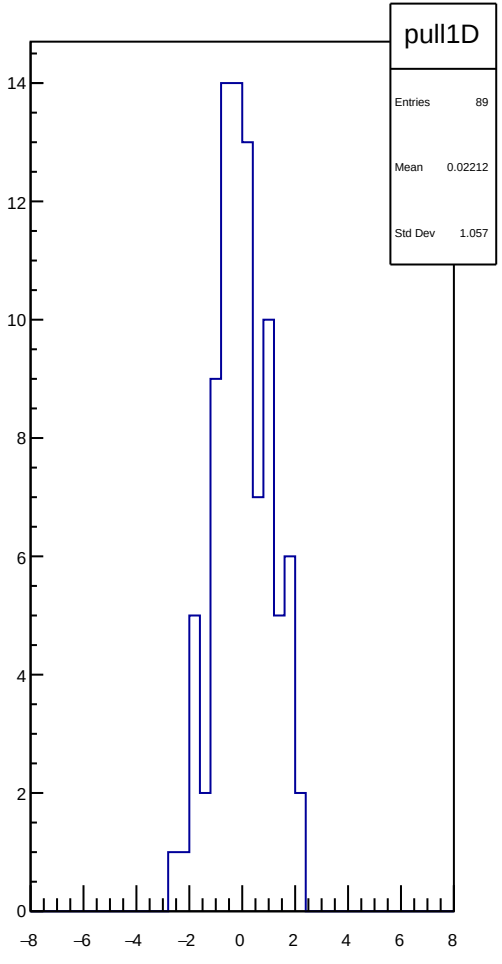

pull1D
Entries 89
Mean 0.01616
Std Dev 0.947

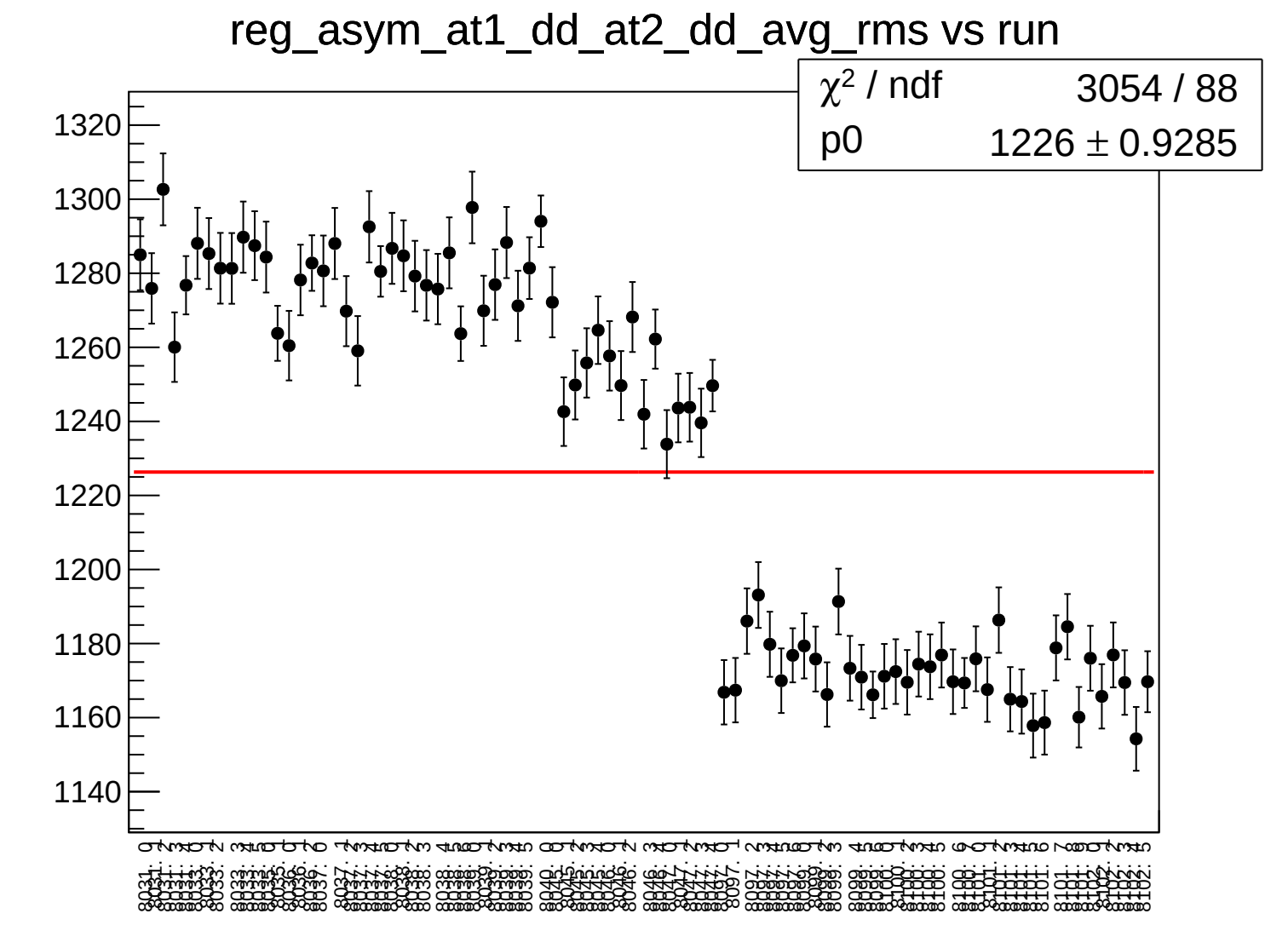

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.195e+05 / 88
p0 51.59 ± 0.04173
160
140
120
100
80
60
40
20

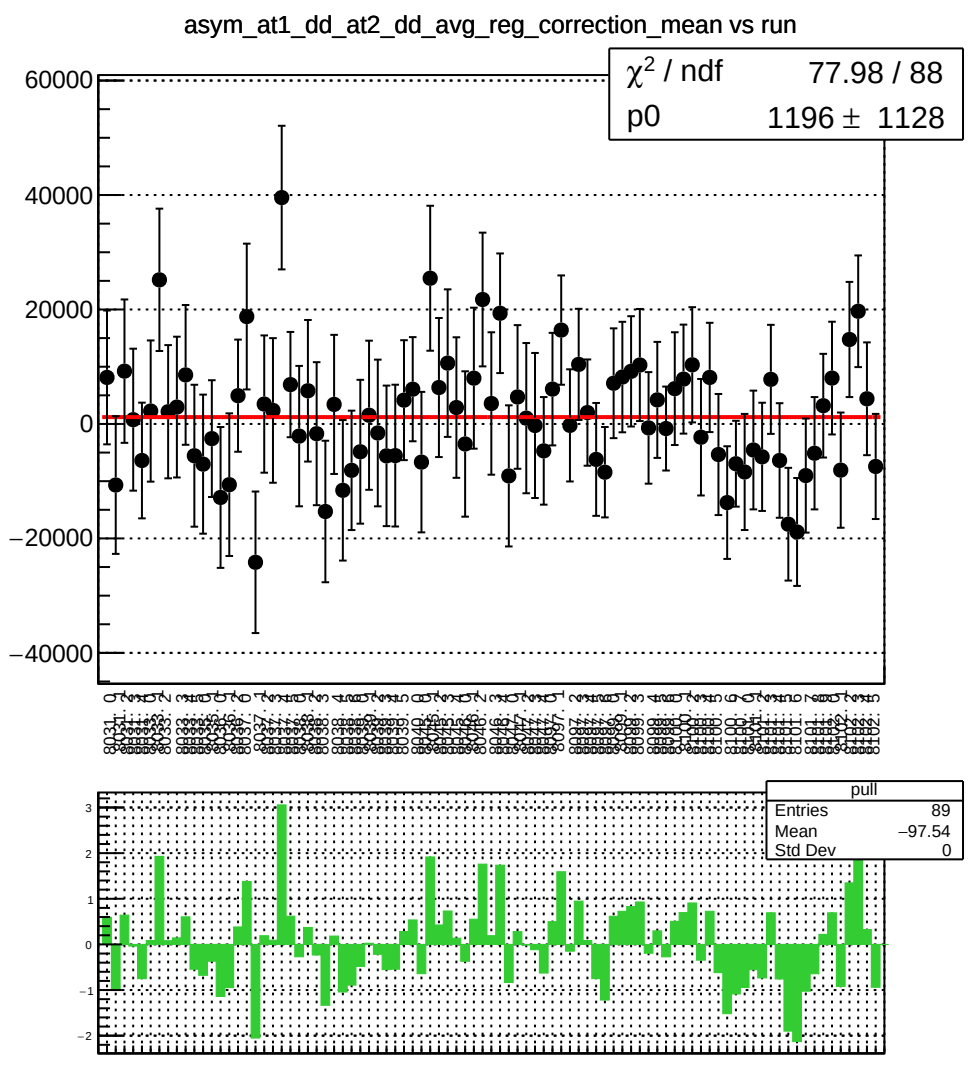

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 82.9 / 88
p0 −3.318e−14 ± 8.475e−14
pull
Entries 89
Mean 352.6
Std Dev 0
pull1D
Entries 89
Mean −0.01837
Std Dev 0.965

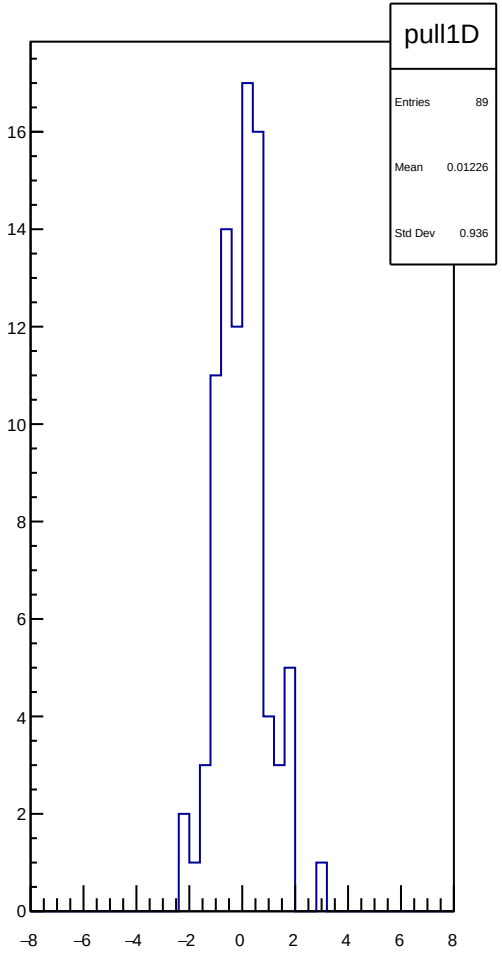

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.726e+05 / 88
p0 6.496e−11 ± 5.993e−14
0.6
0.5
0.4
0.3
0.2
0.1

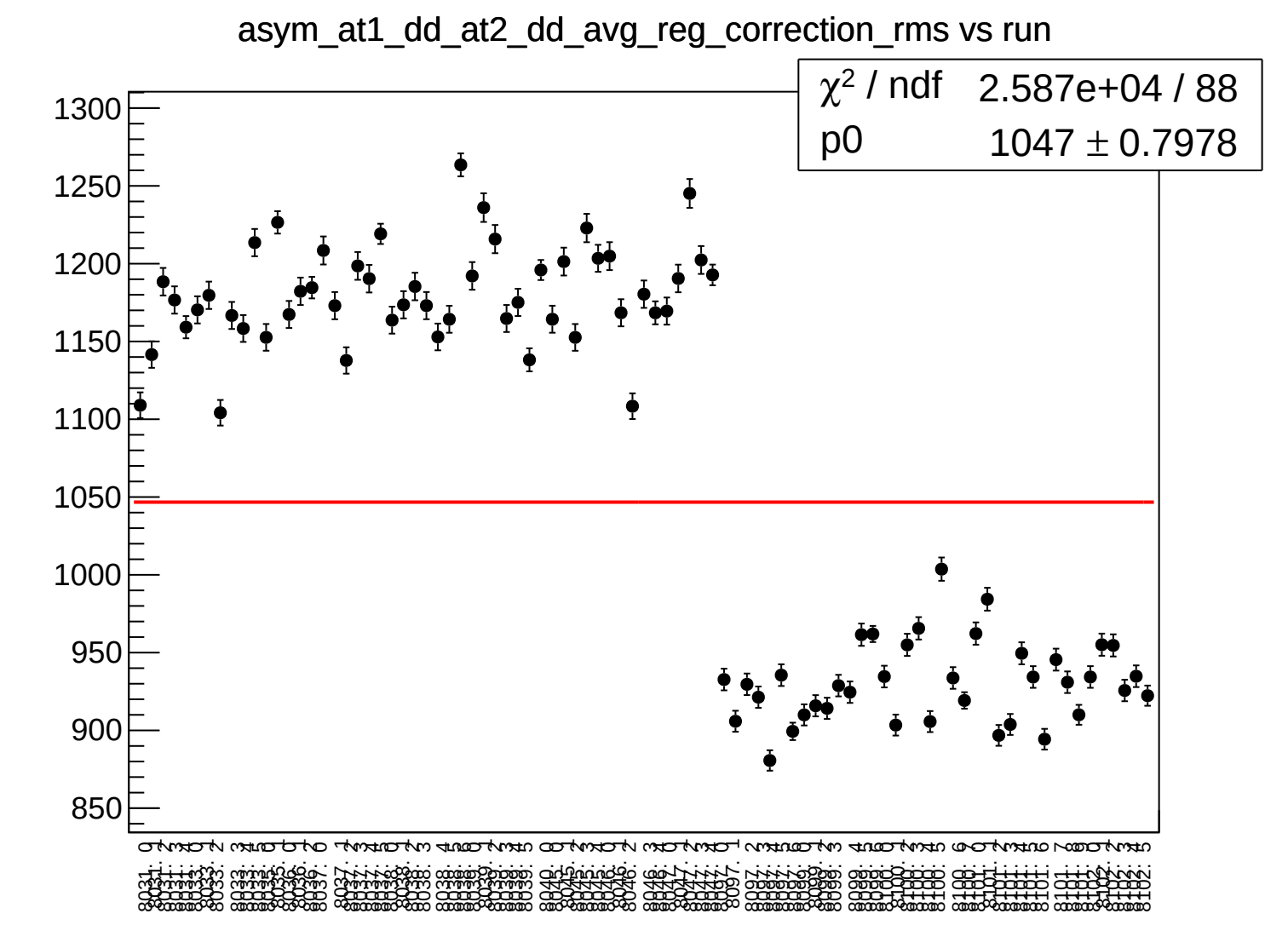

reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 99.46 / 88
p0 −398.2 ± 1313
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 15.98
Std Dev 0
2
1
0
−1
−2

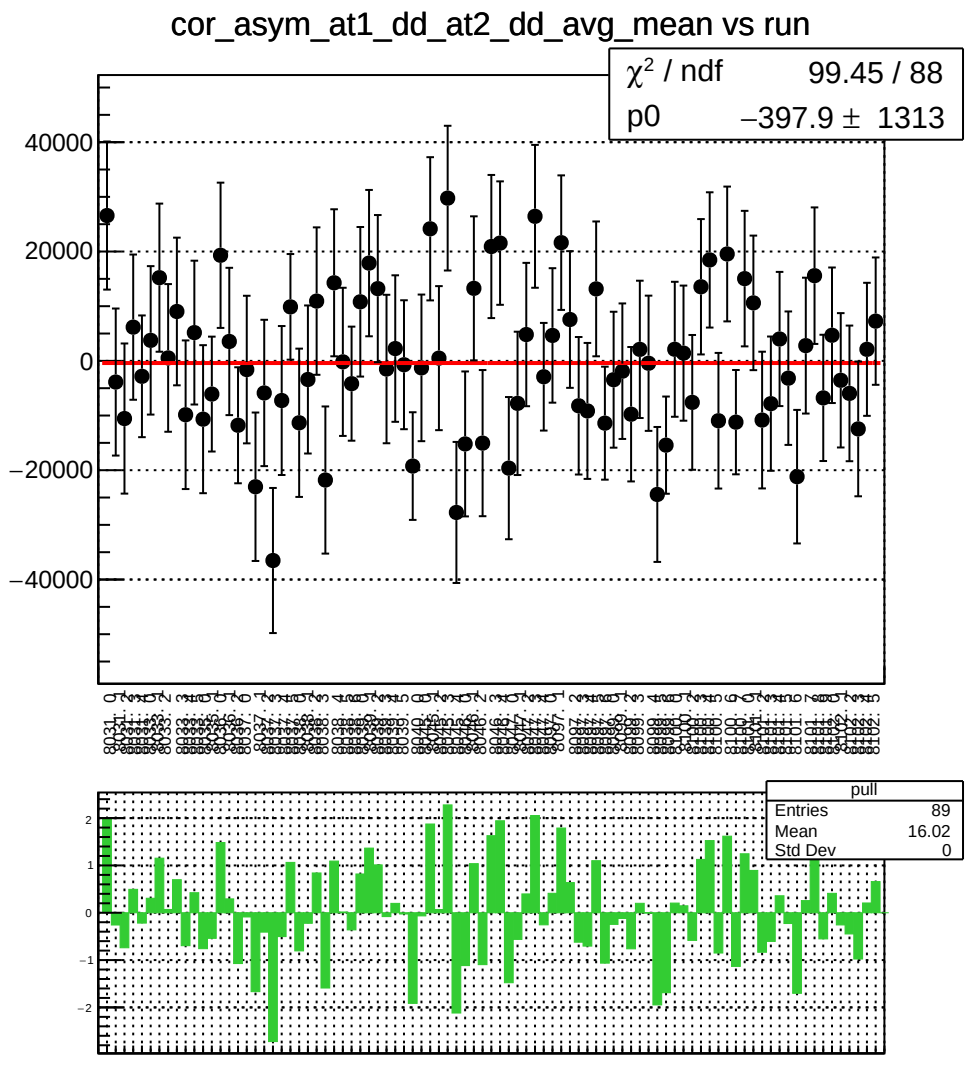

pull1D
Entries 89
Mean 0.02212
Std Dev 1.057
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

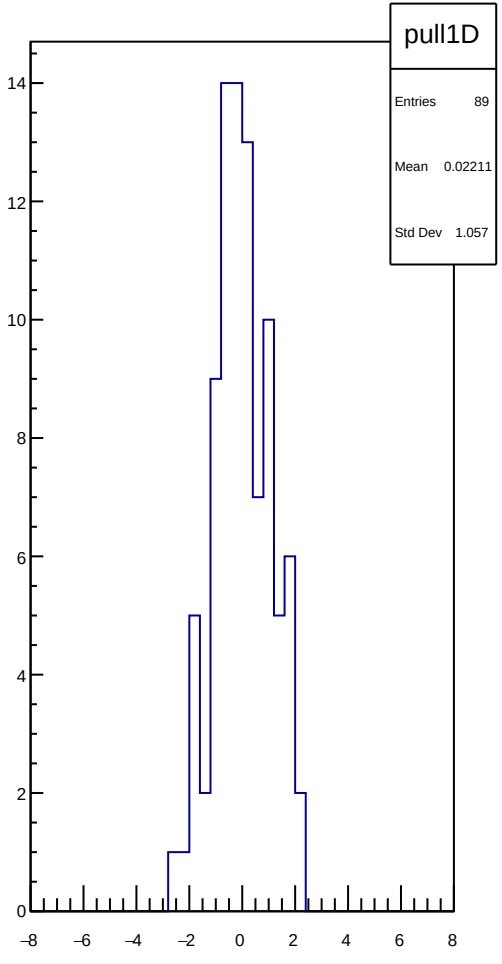

reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 3054 / 88
p0 1226 ± 0.9285
1320
1300
1280
1260
1240
1220
1200
1180
1160
1140

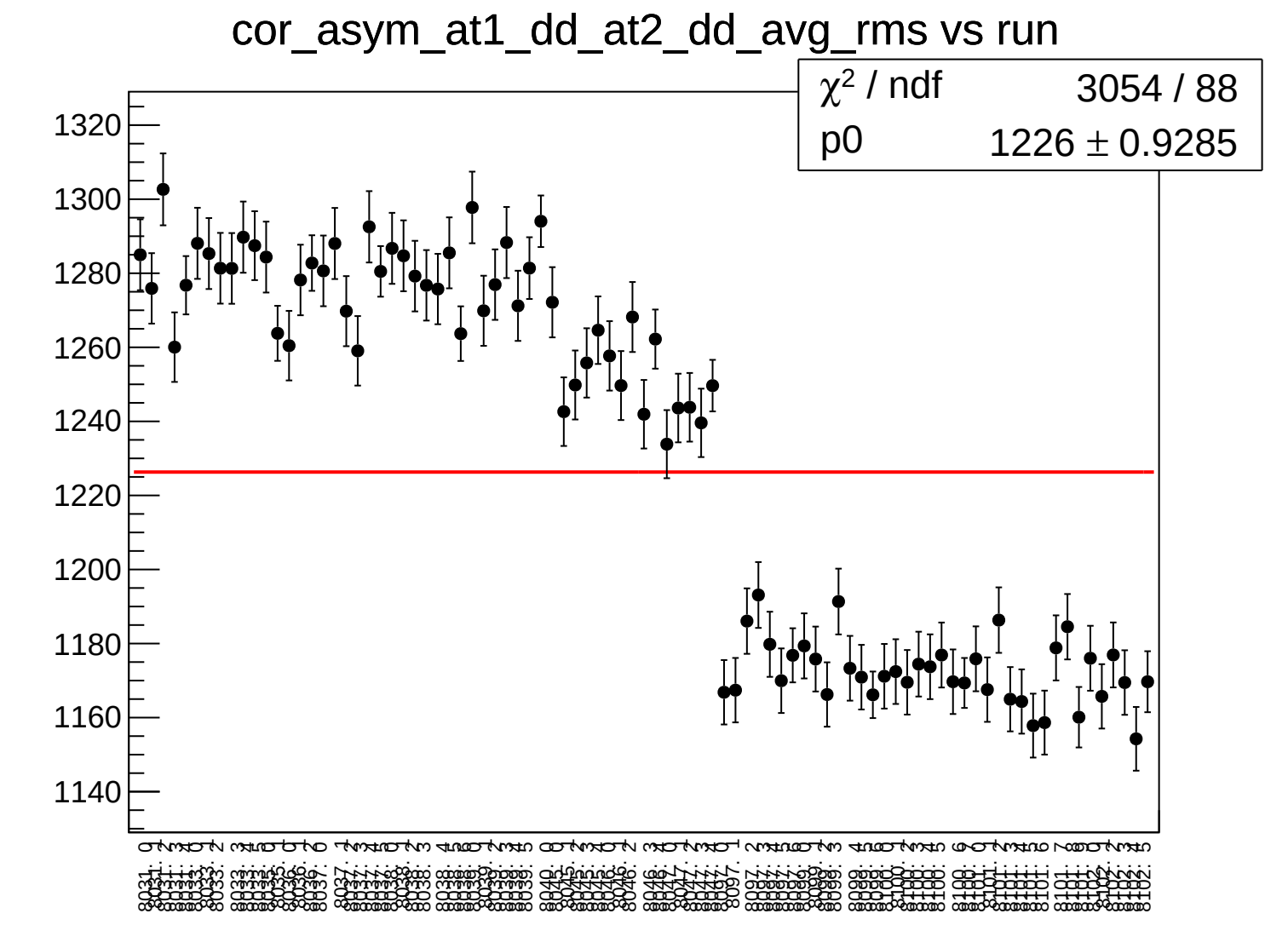

asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 77.98 / 88
p0 1196 ± 1128
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −97.54
Std Dev 0
3
2
1
0
−1
−2

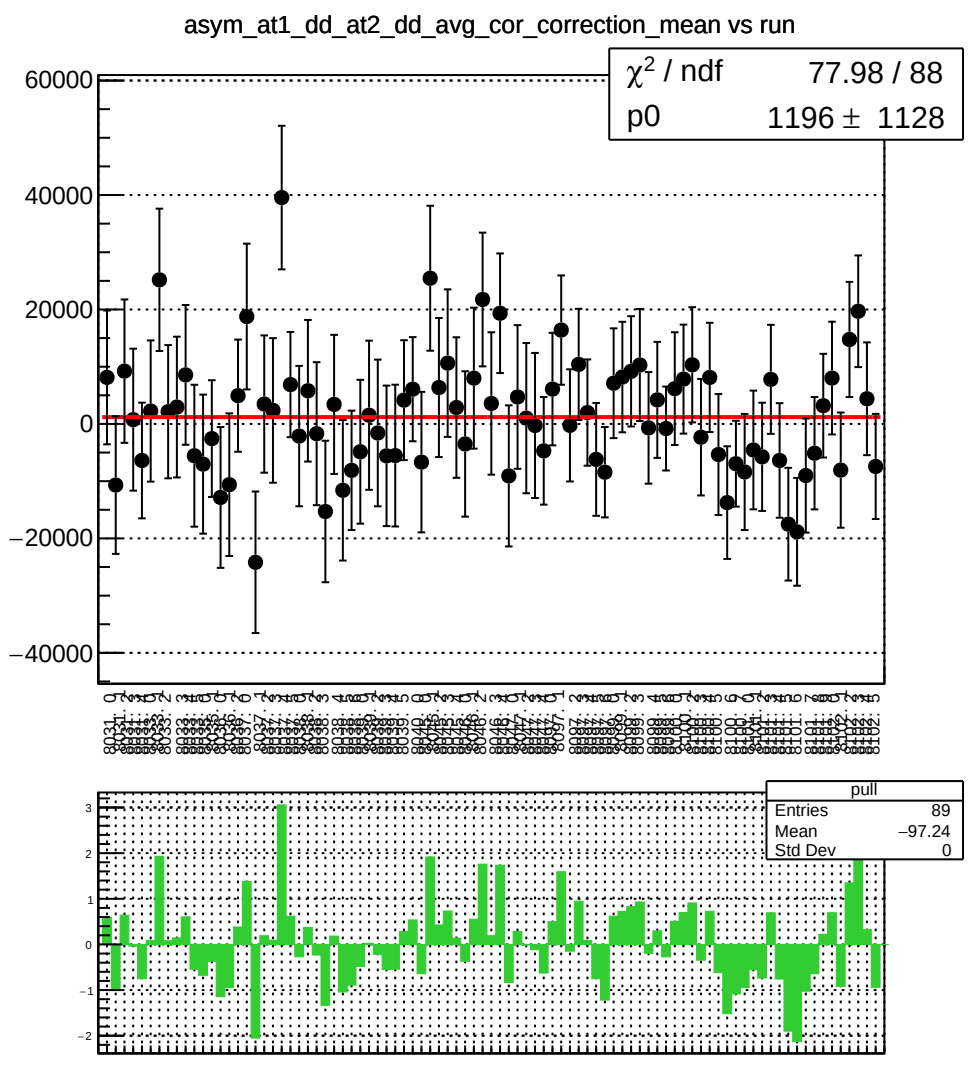

pull1D
Entries 89
Mean 0.01226
Std Dev 0.936
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

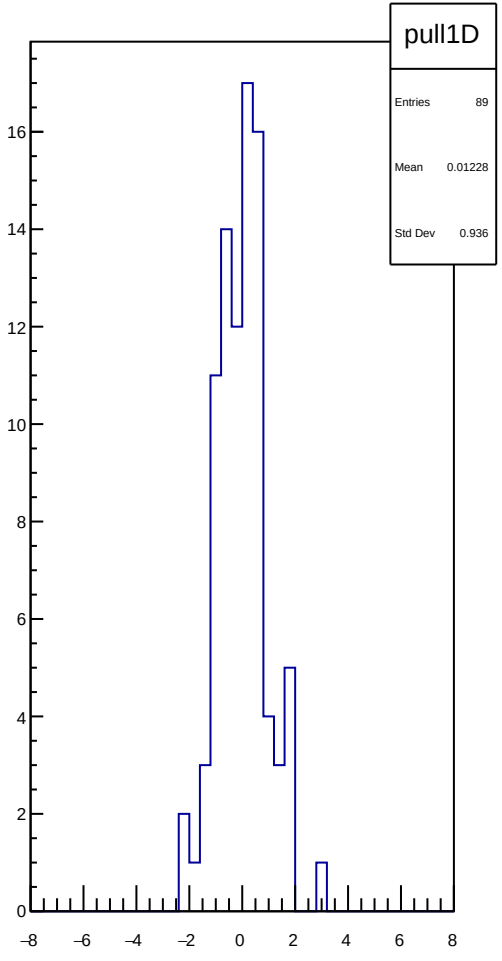

asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 2.587e+04 / 88
p0 1047 ± 0.7978
1300
1250
1200
1150
1100
1050
1000
950
900
850

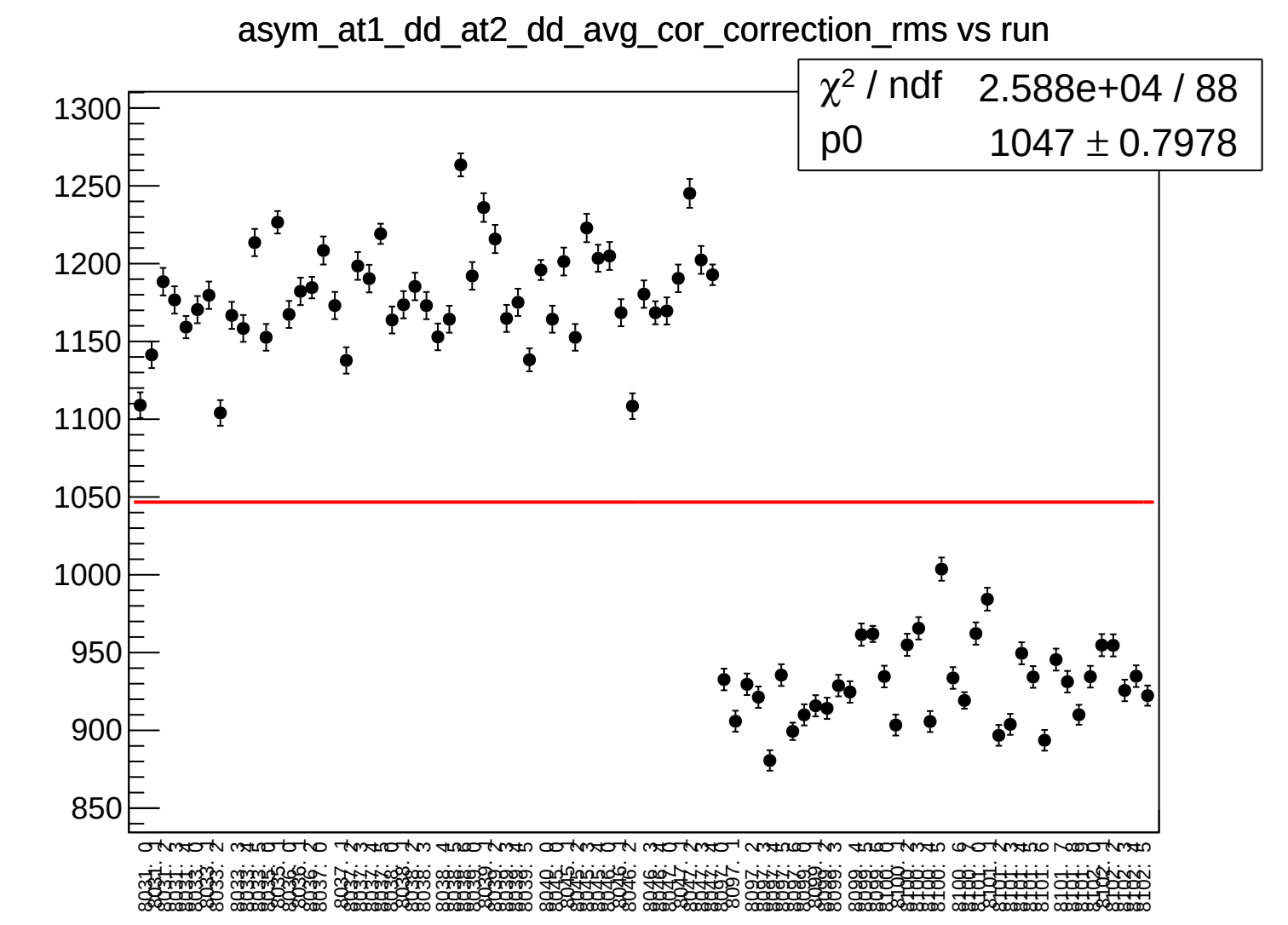

cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 99.45 / 88
p0 −397.9 ± 1313
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 16.02
Std Dev 0
2
1
0
−1
−2

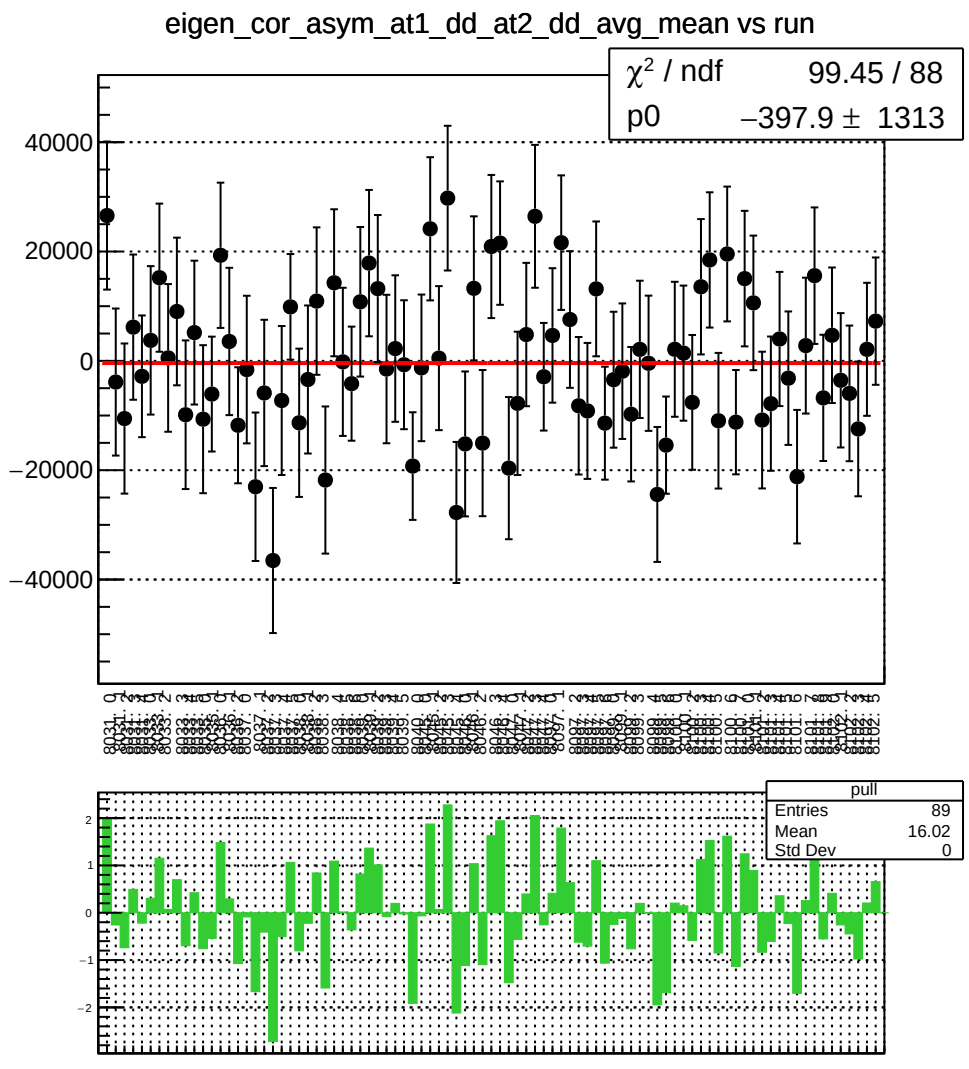

pull1D
Entries 89
Mean 0.02211
Std Dev 1.057
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

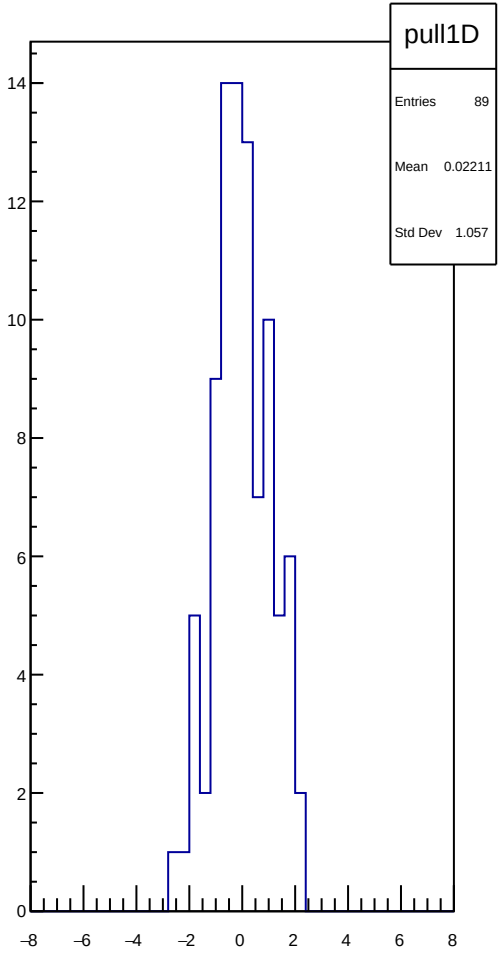

cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 3054 / 88
p0 1226 ± 0.9285
1320
1300
1280
1260
1240
1220
1200
1180
1160
1140

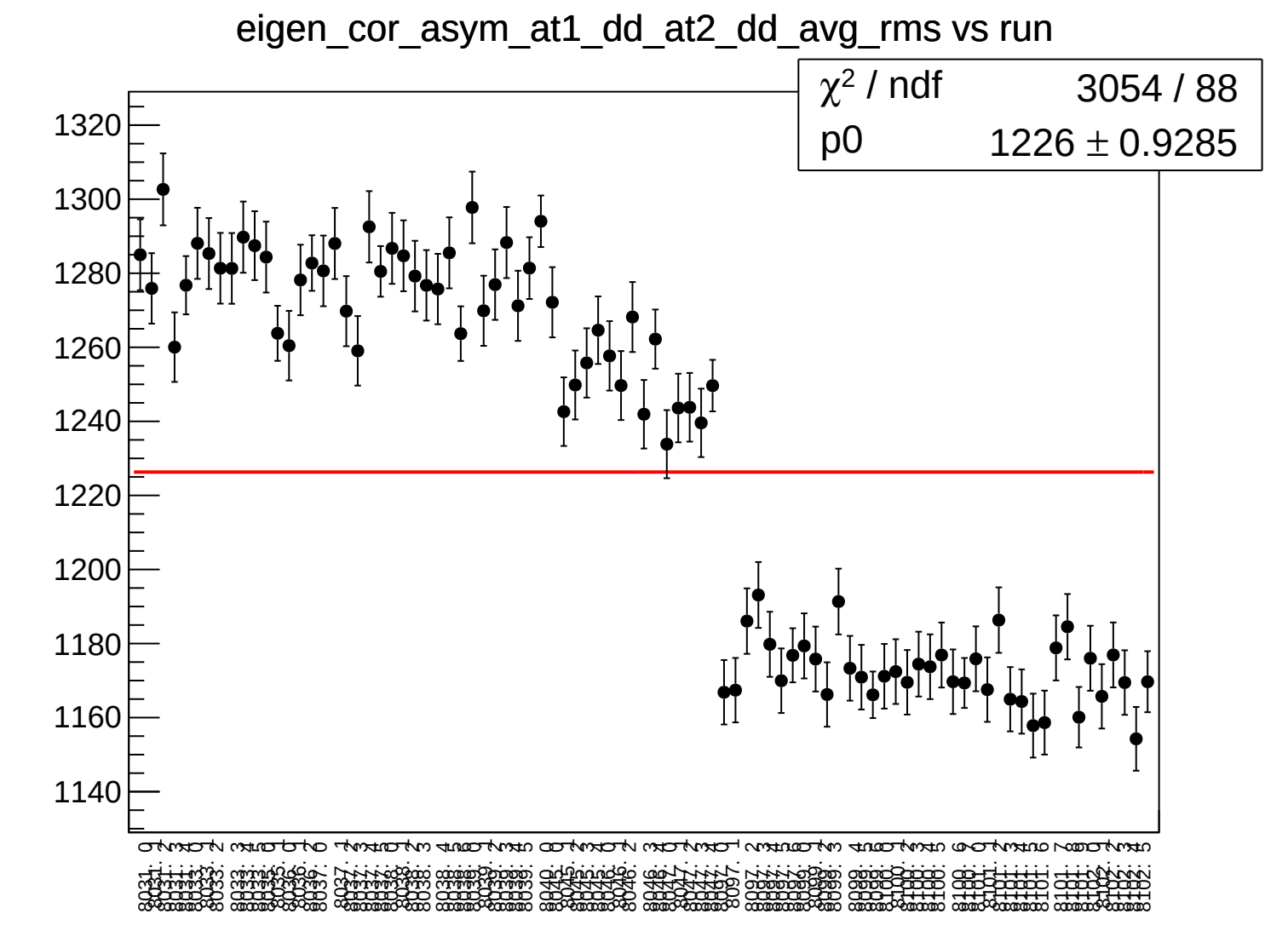

asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 77.98 / 88
p0 1196 ± 1128
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −97.24
Std Dev 0
3
2
1
0
−1
−2

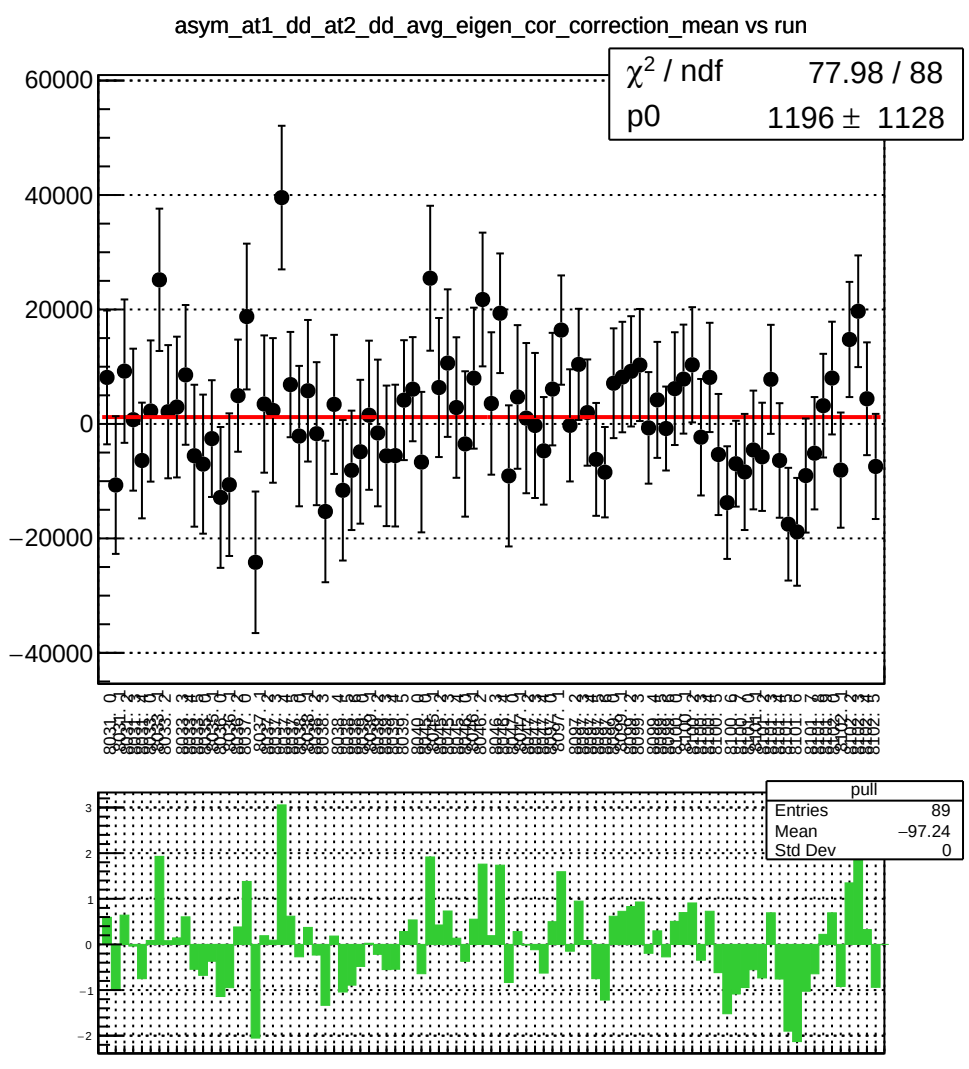

pull1D
Entries 89
Mean 0.01228
Std Dev 0.936
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

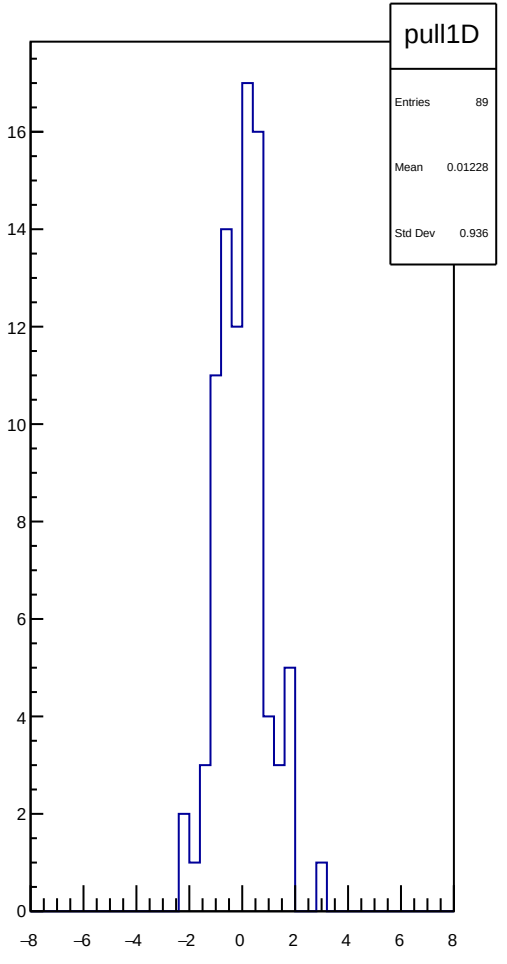

asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 2.588e+04 / 88
p0 1047 ± 0.7978
1300
1250
1200
1150
1100
1050
1000
950
900
850

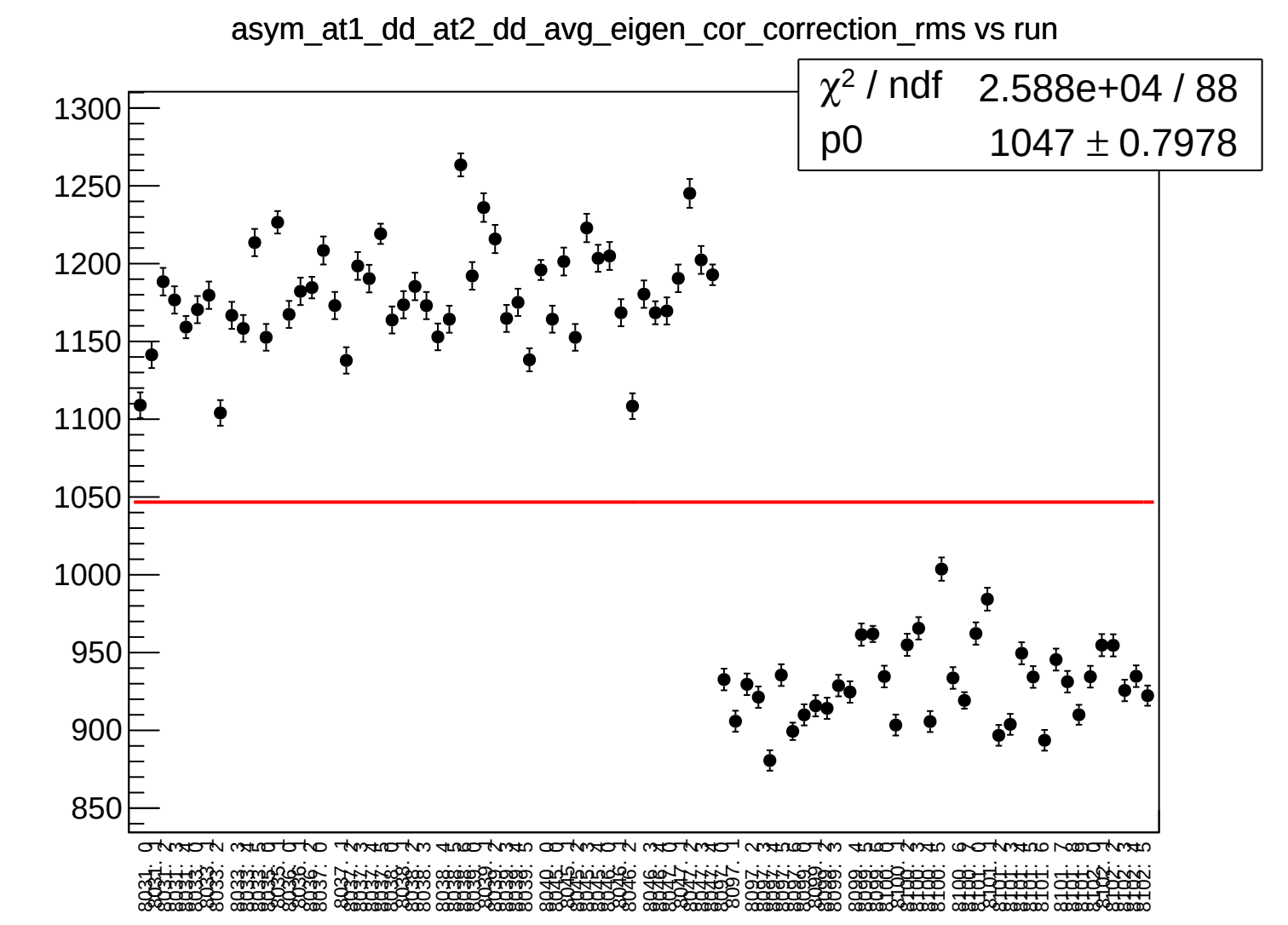

eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 99.45 / 88
p0 −397.9 ± 1313
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 16.02
Std Dev 0
2
1
0
−1
−2

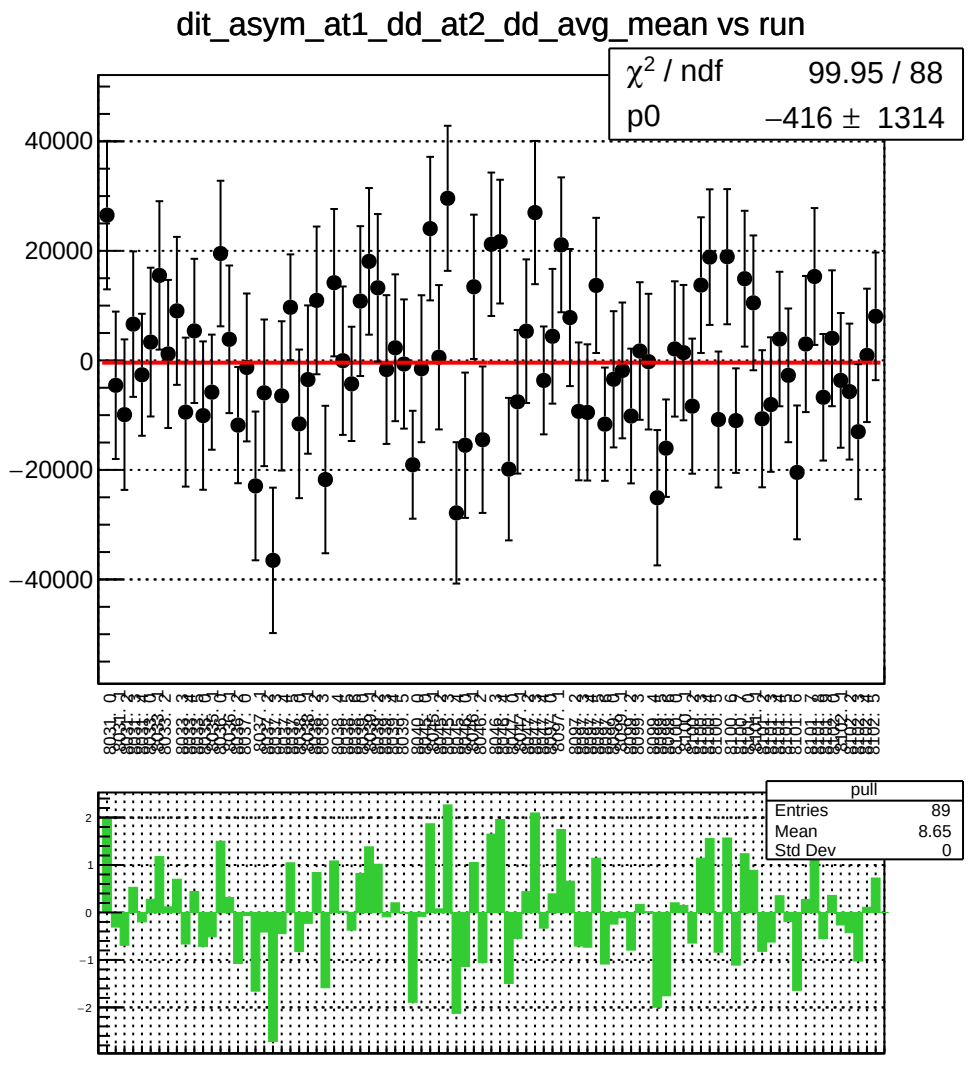

pull1D
Entries 89
Mean 0.02211
Std Dev 1.057
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

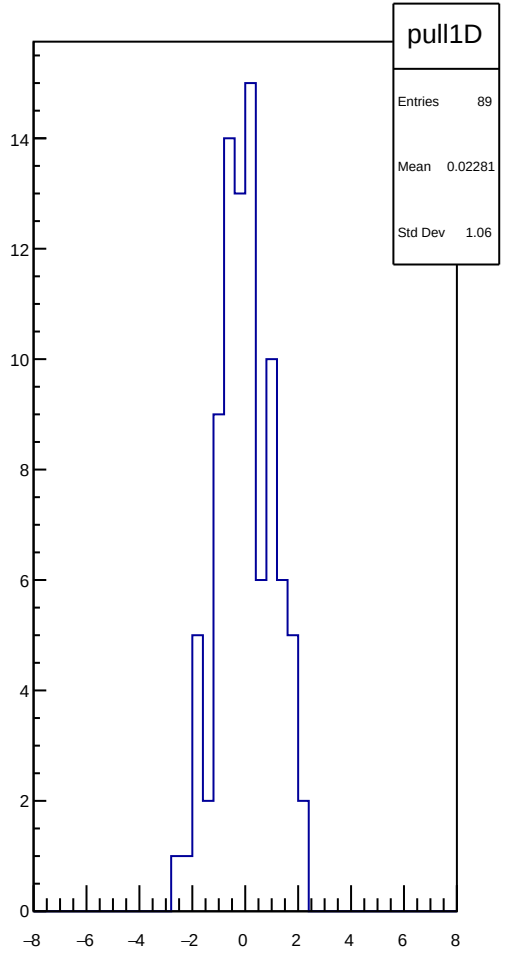

eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 3054 / 88
p0 1226 ± 0.9285
1320
1300
1280
1260
1240
1220
1200
1180
1160
1140

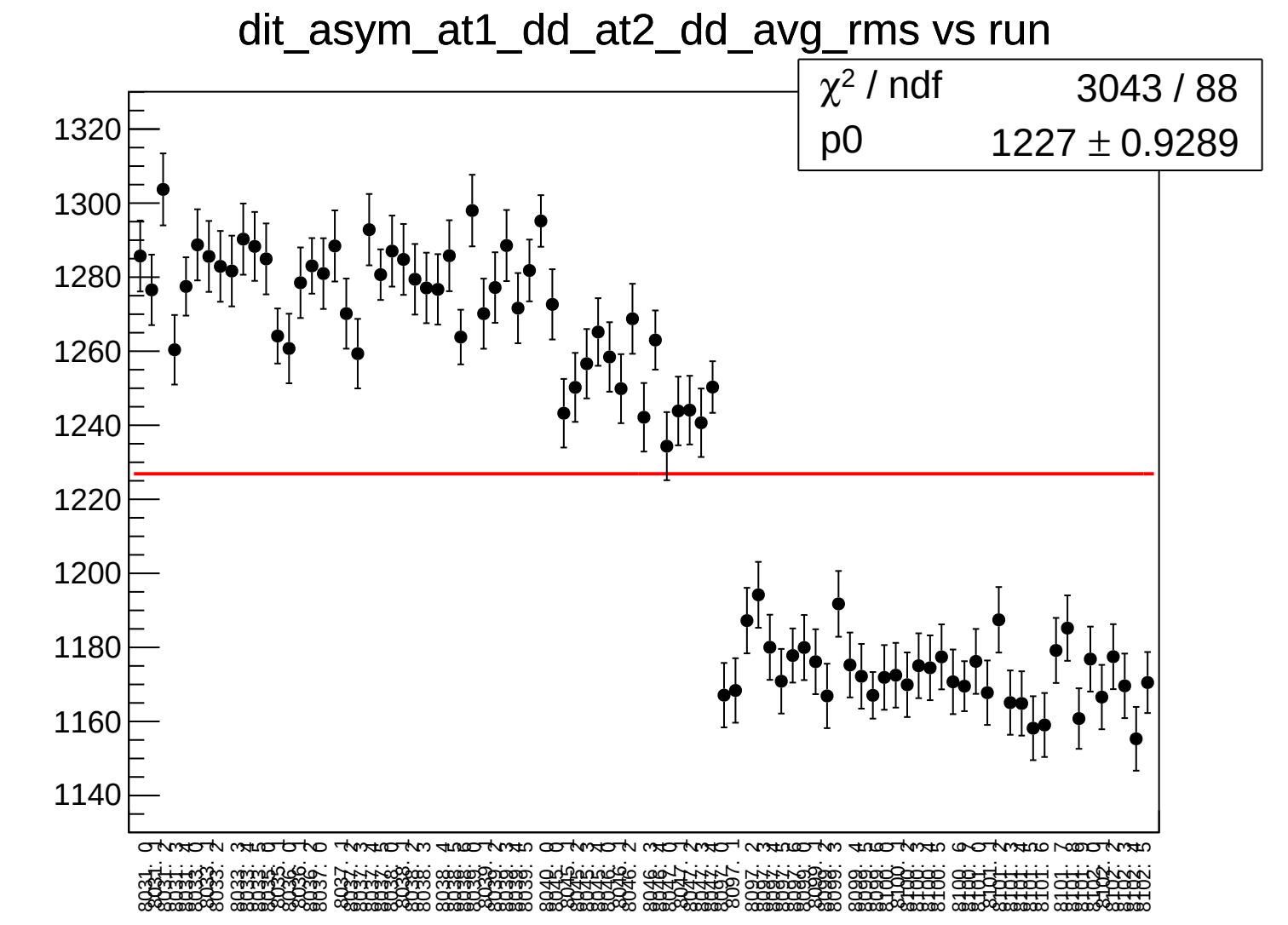

asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 77.98 / 88
p0 1196 ± 1128
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −97.24
Std Dev 0
3
2
1
0
−1
−2

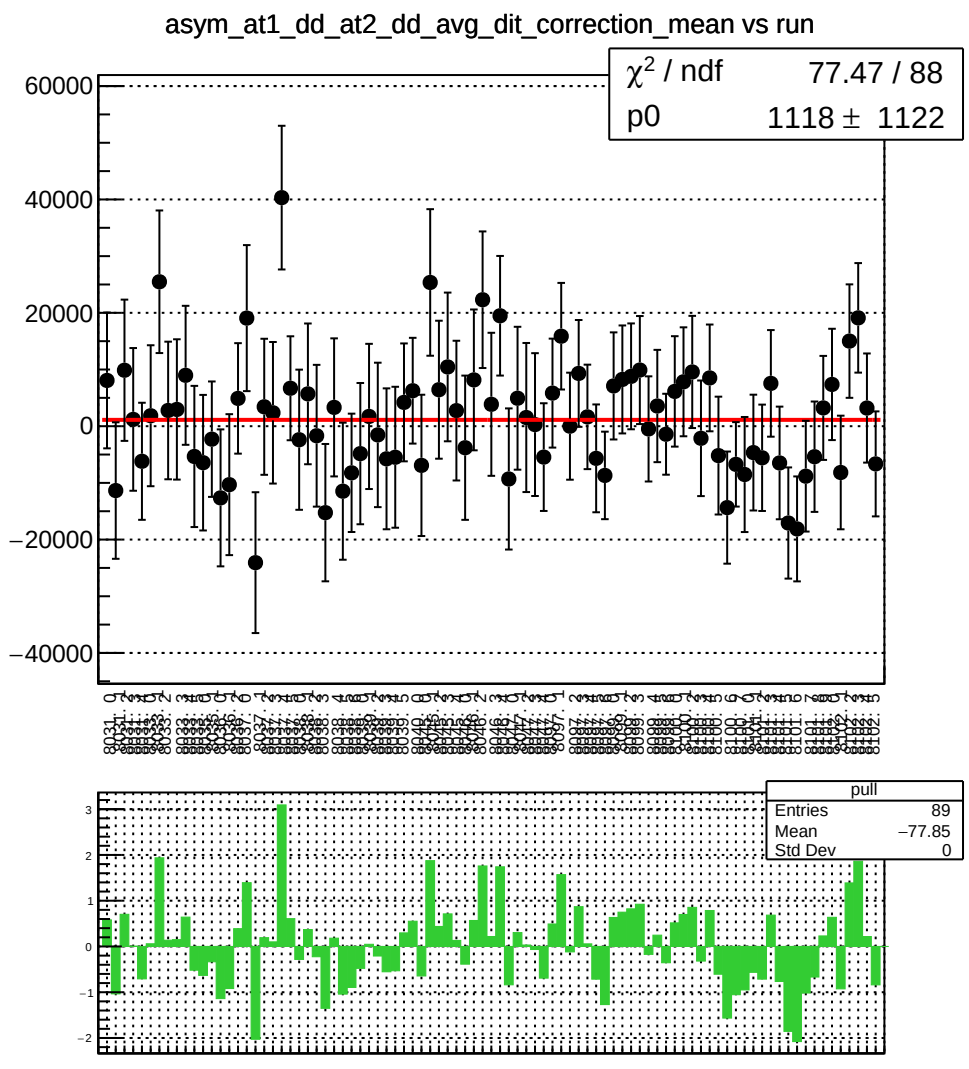

pull1D
Entries 89
Mean 0.01228
Std Dev 0.936
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

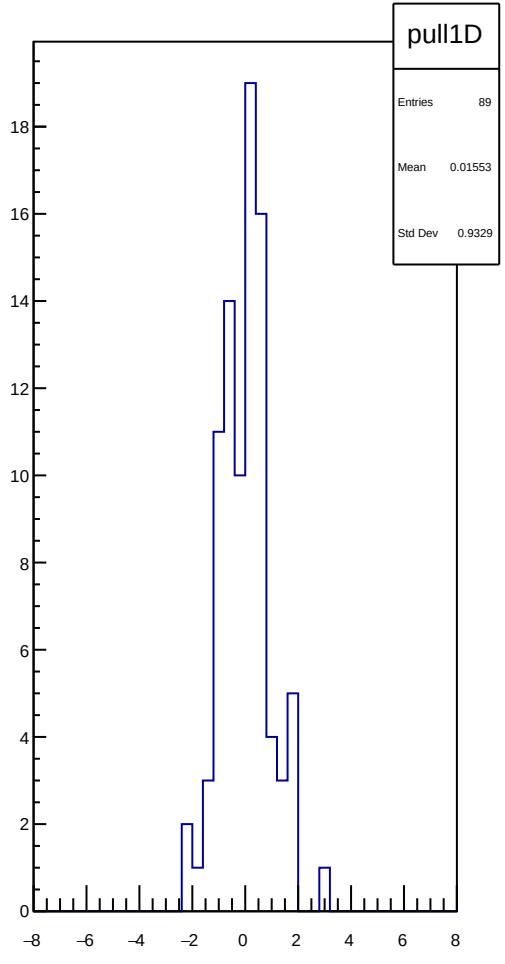

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.588e+04 / 88
p0 1047 ± 0.7978
1300
1250
1200
1150
1100
1050
1000
950
900
850

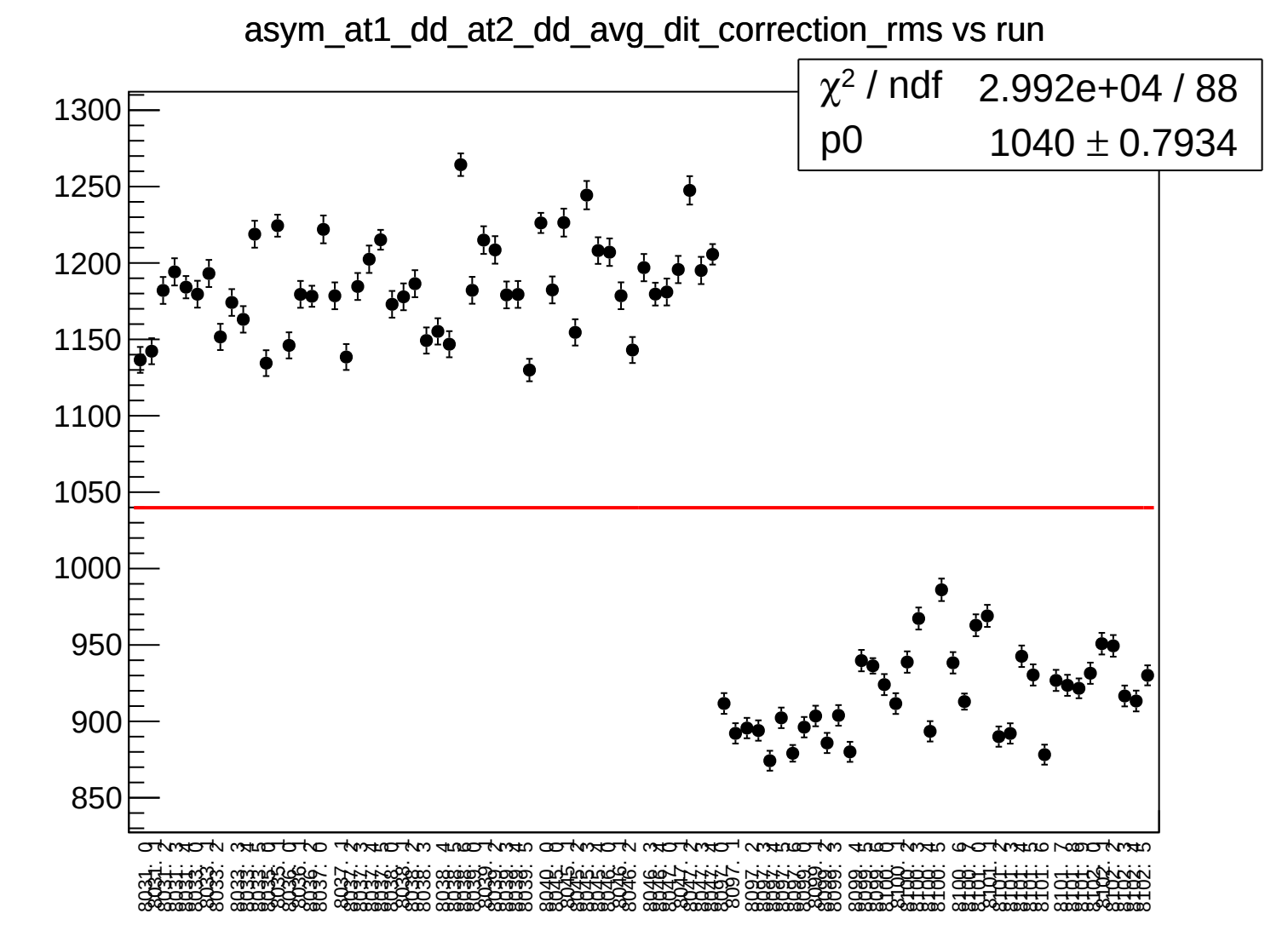

dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 99.95 / 88
p0 −416 ± 1314
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 8.65
Std Dev 0
2
1
0
−1
−2

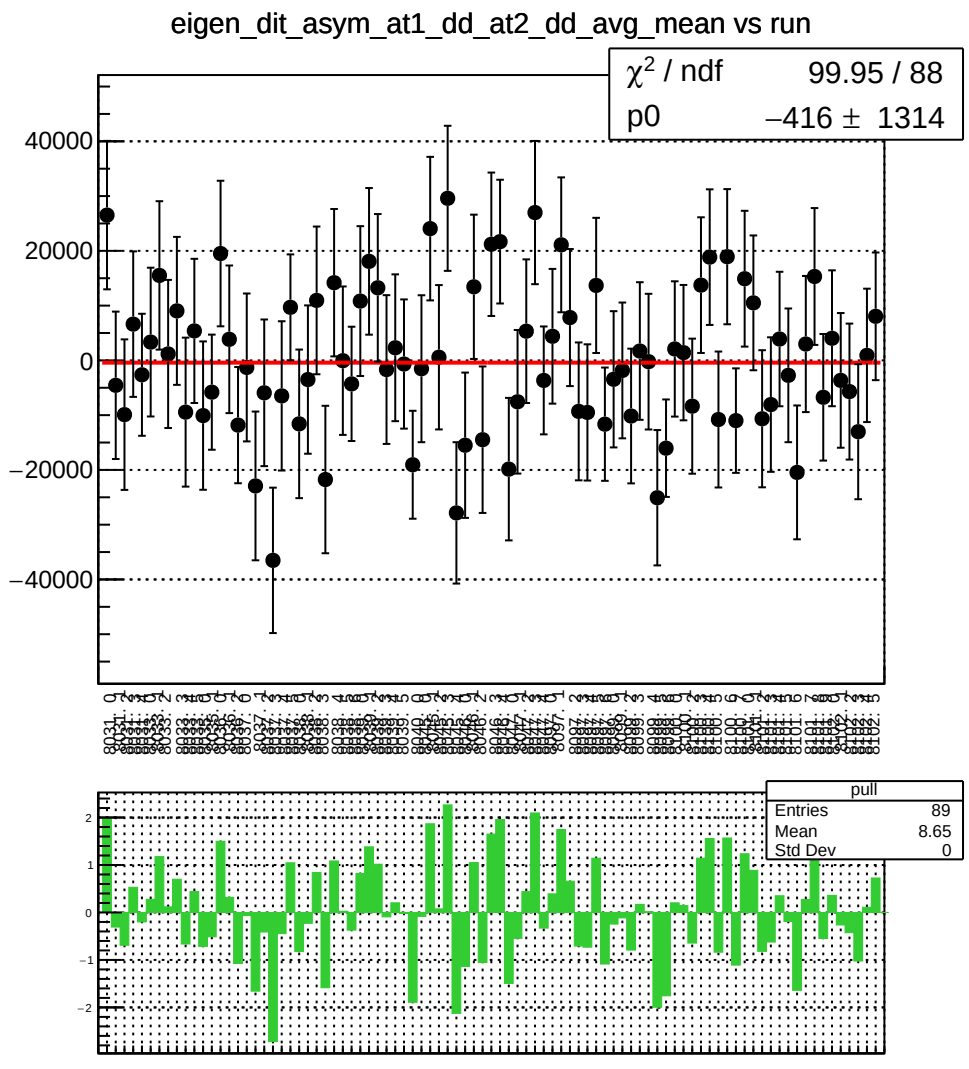

pull1D
Entries 89
Mean 0.02281
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

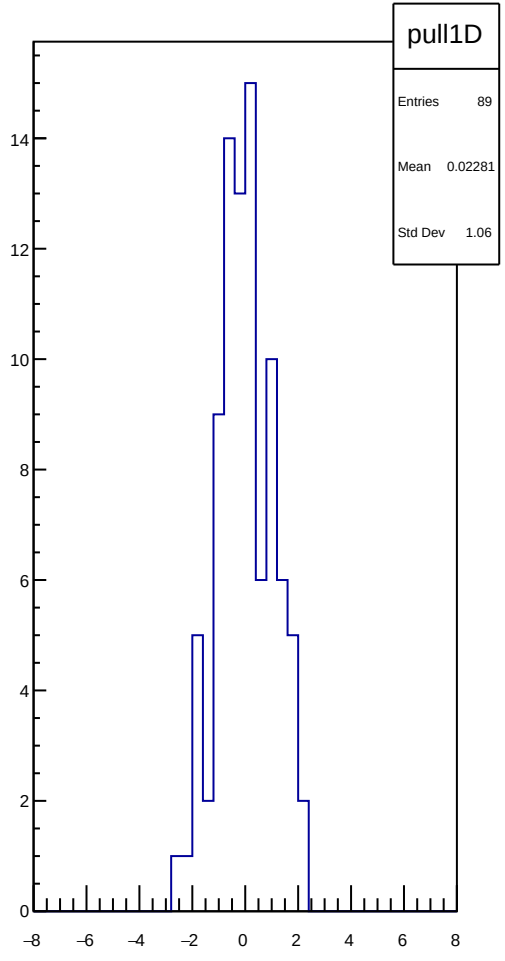

dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 3043 / 88
p0 1227 ± 0.9289
1320
1300
1280
1260
1240
1220
1200
1180
1160
1140

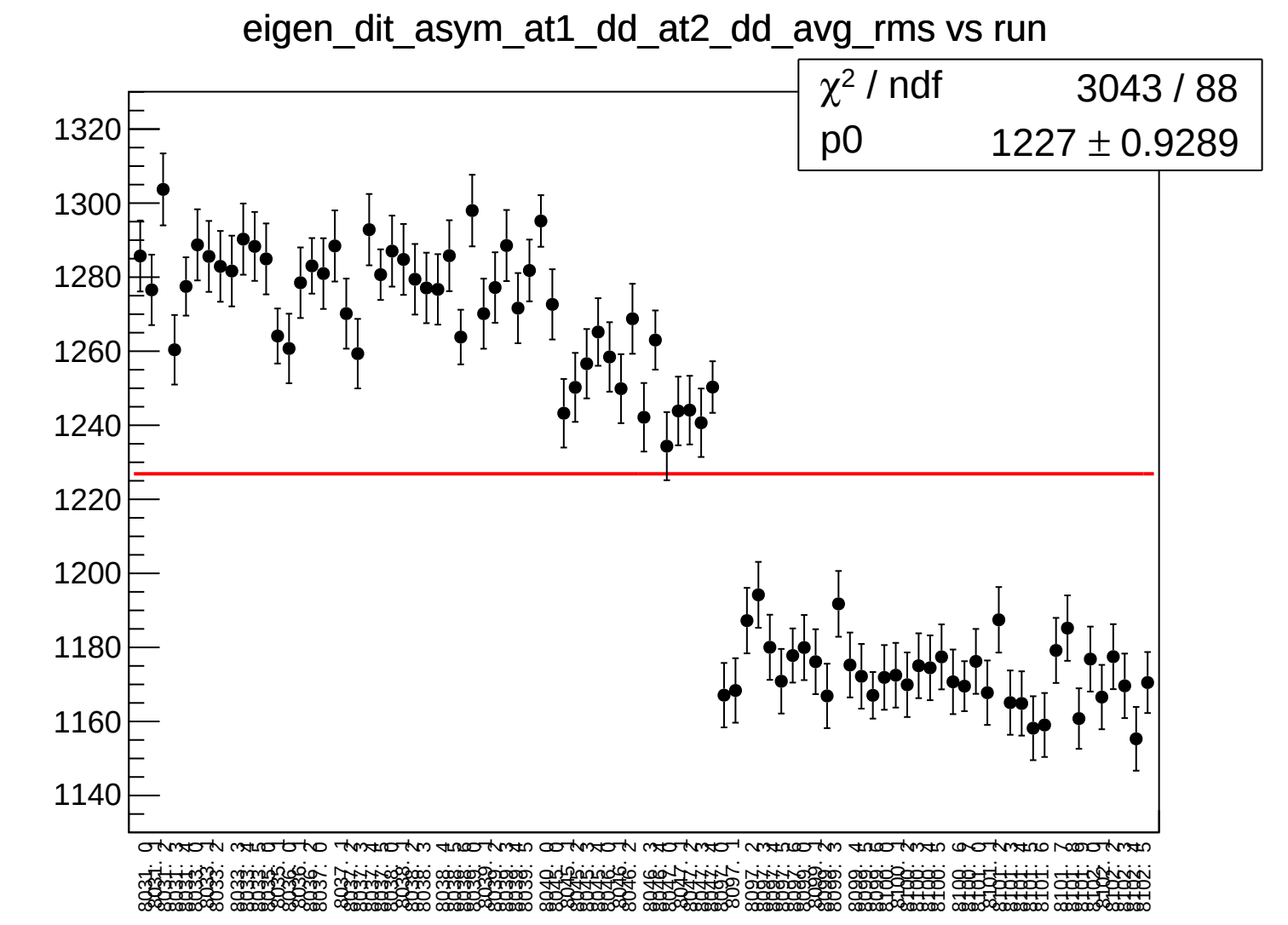

asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 77.47 / 88
p0 1118 ± 1122
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −77.85
Std Dev 0
3
2
1
0
−1
−2

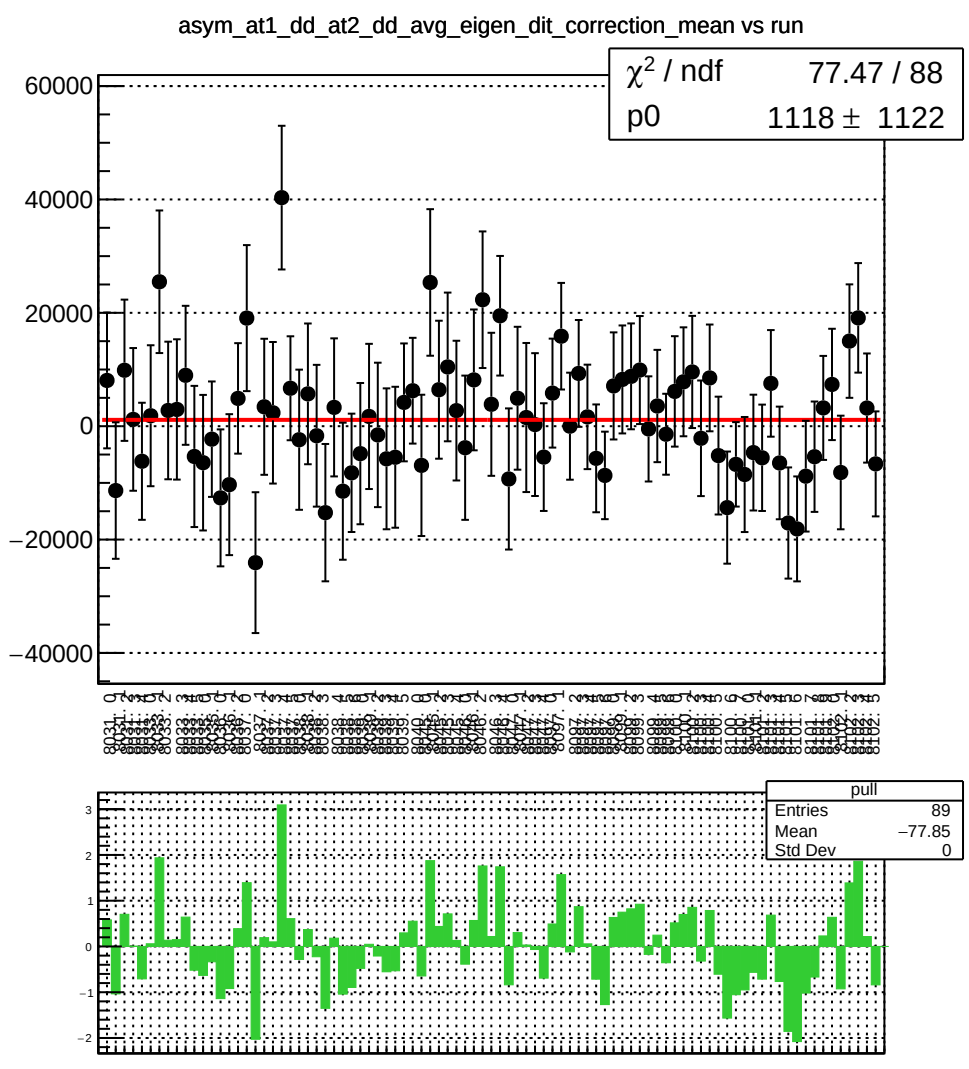

pull1D
Entries 89
Mean 0.01553
Std Dev 0.9329
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

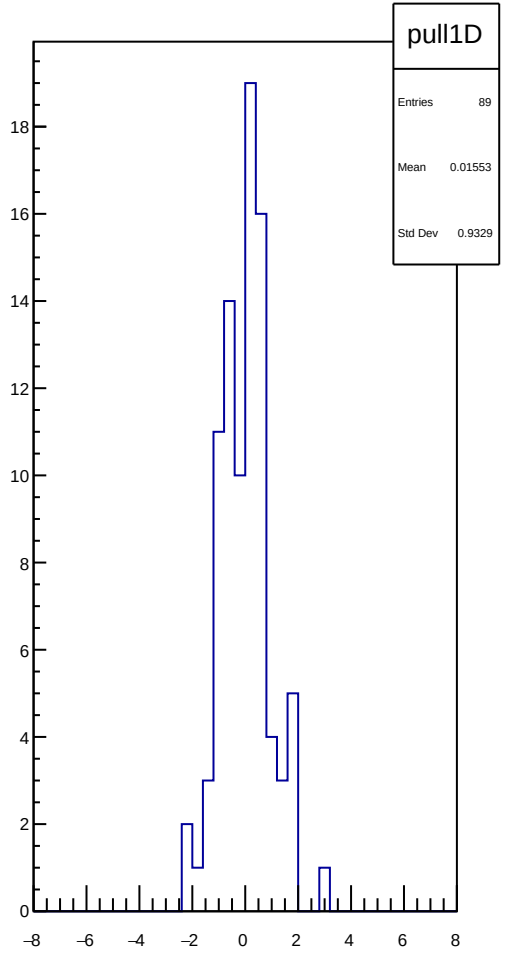

asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 2.992e+04 / 88
p0 1040 ± 0.7934
1300
1250
1200
1150
1100
1050
1000
950
900
850

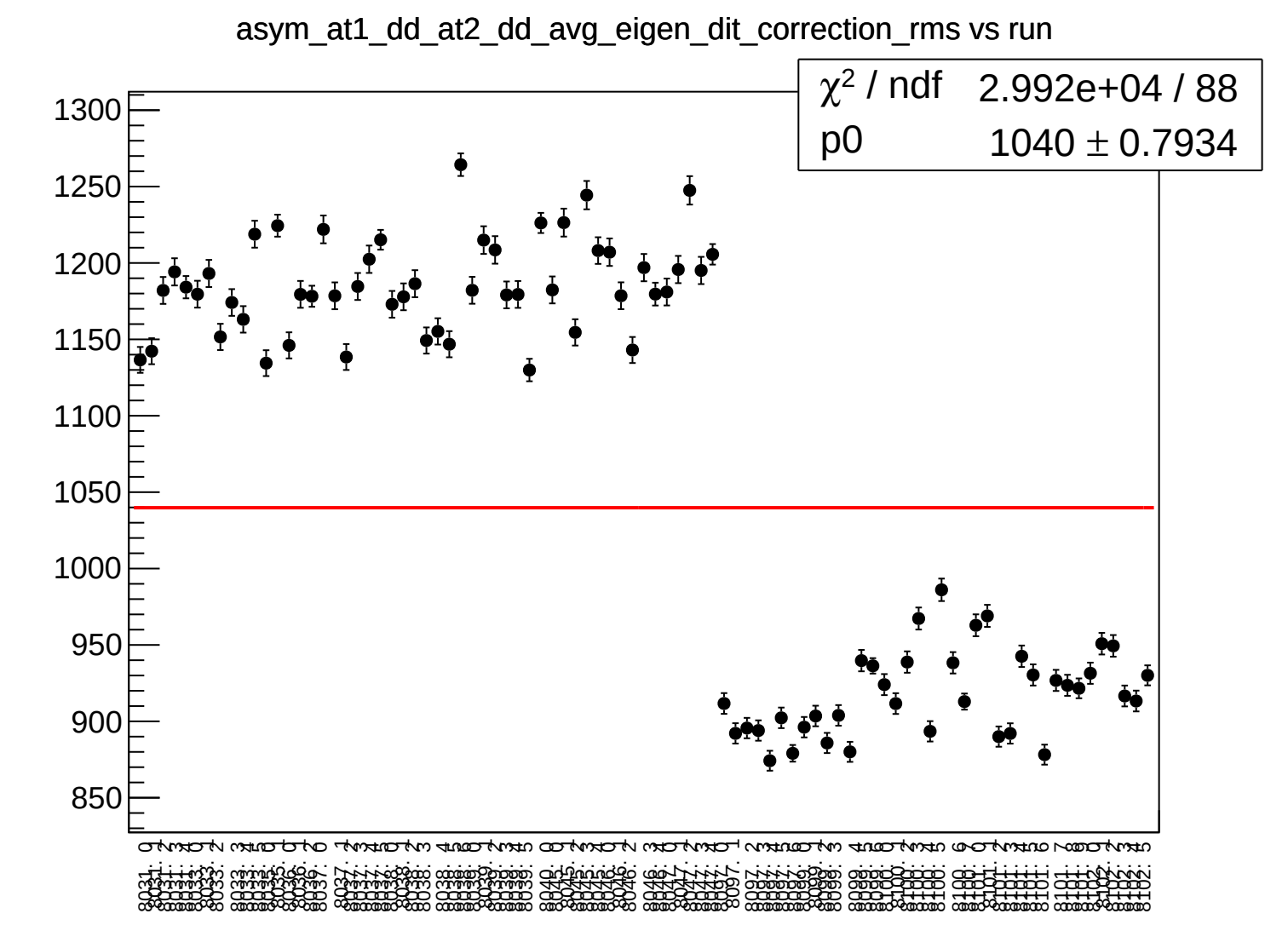

eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 99.95 / 88
p0 −416 ± 1314
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 8.65
Std Dev 0
2
1
0
−1
−2

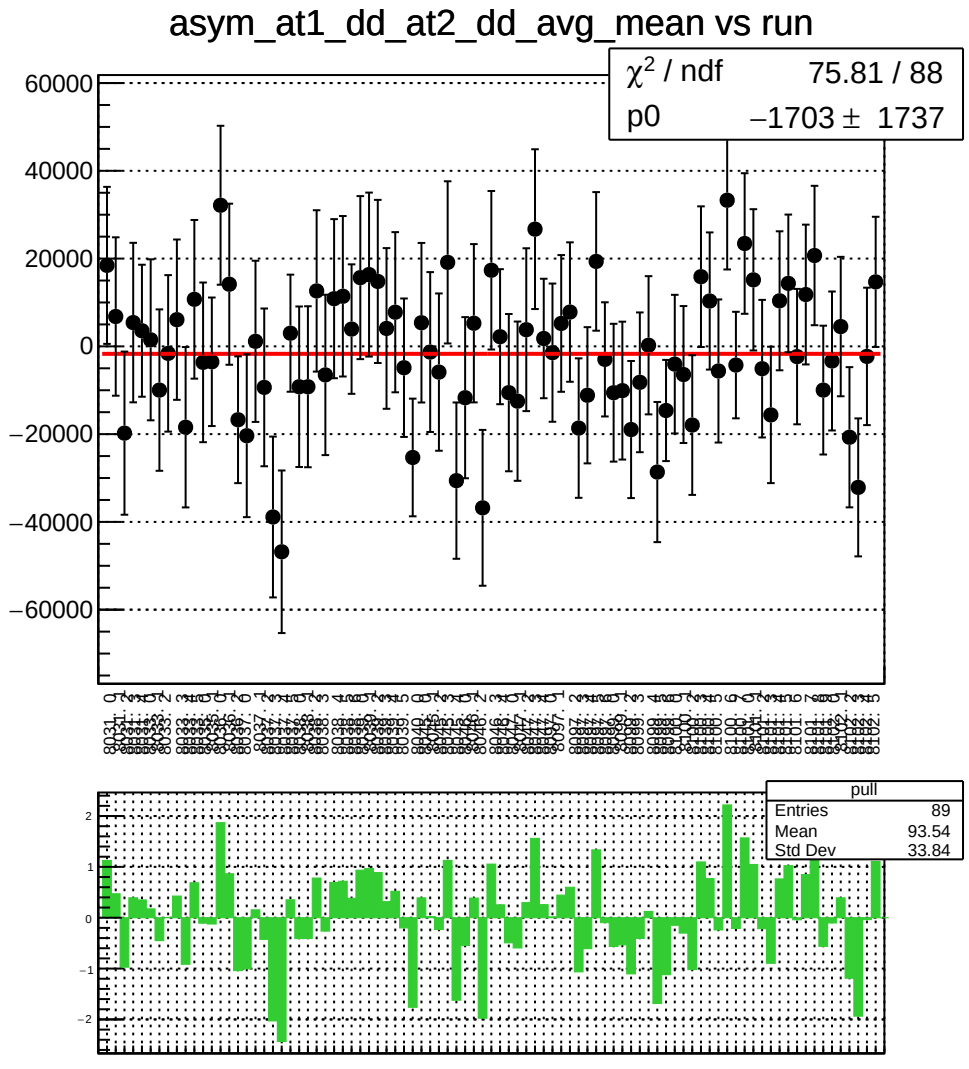

pull1D
Entries 89
Mean 0.02281
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

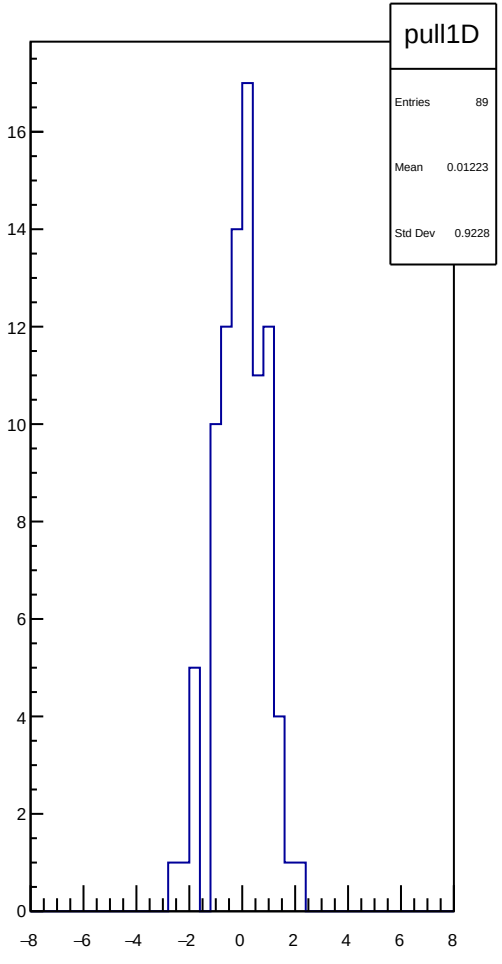

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 3043 / 88
p0 1227 ± 0.9289
1320
1300
1280
1260
1240
1220
1200
1180
1160
1140

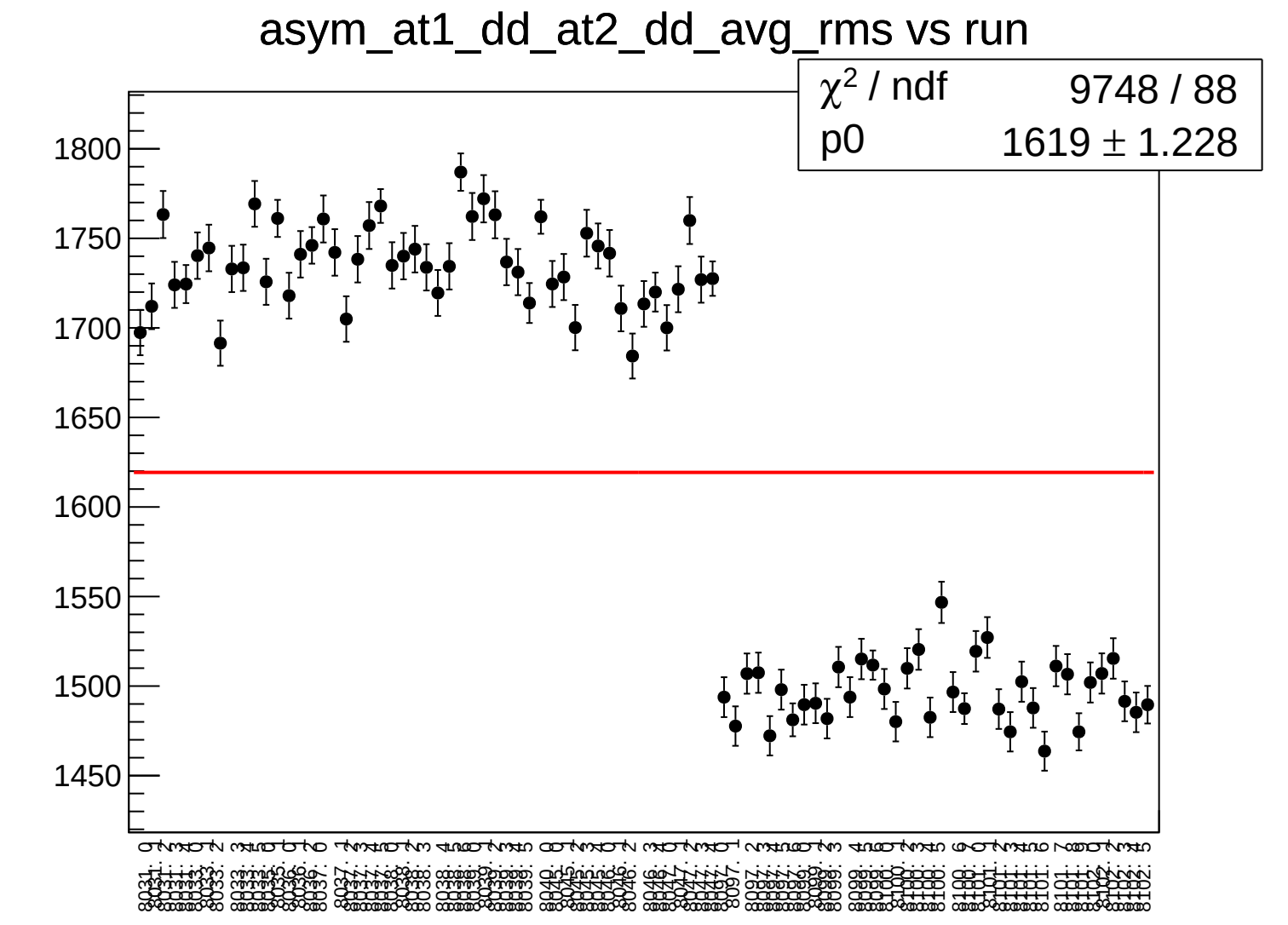

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 77.47 / 88
p0 1118 ± 1122
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −77.85
Std Dev 0
3
2
1
0
−1
−2

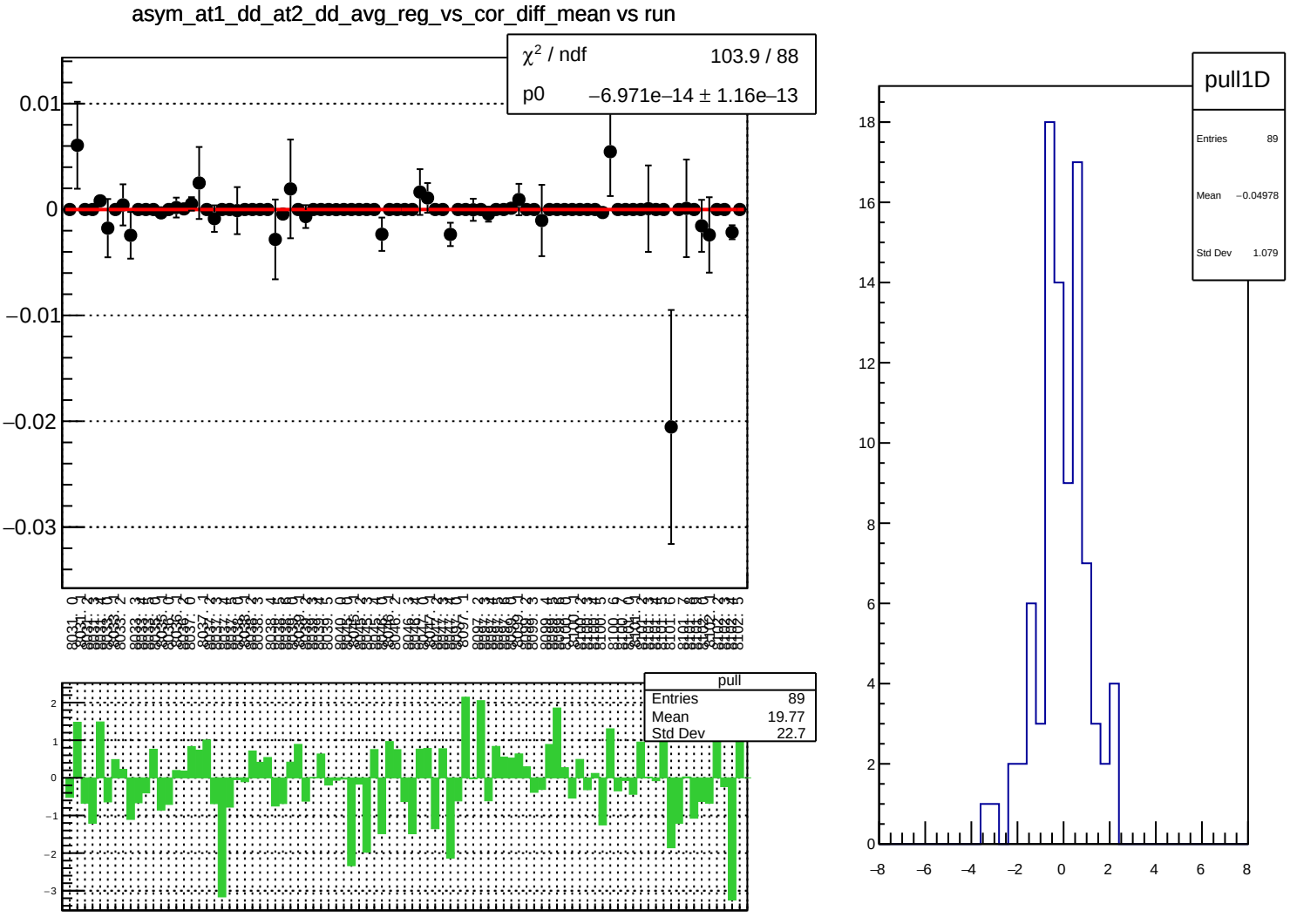

pull1D
Entries 89
Mean 0.01553
Std Dev 0.9329
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

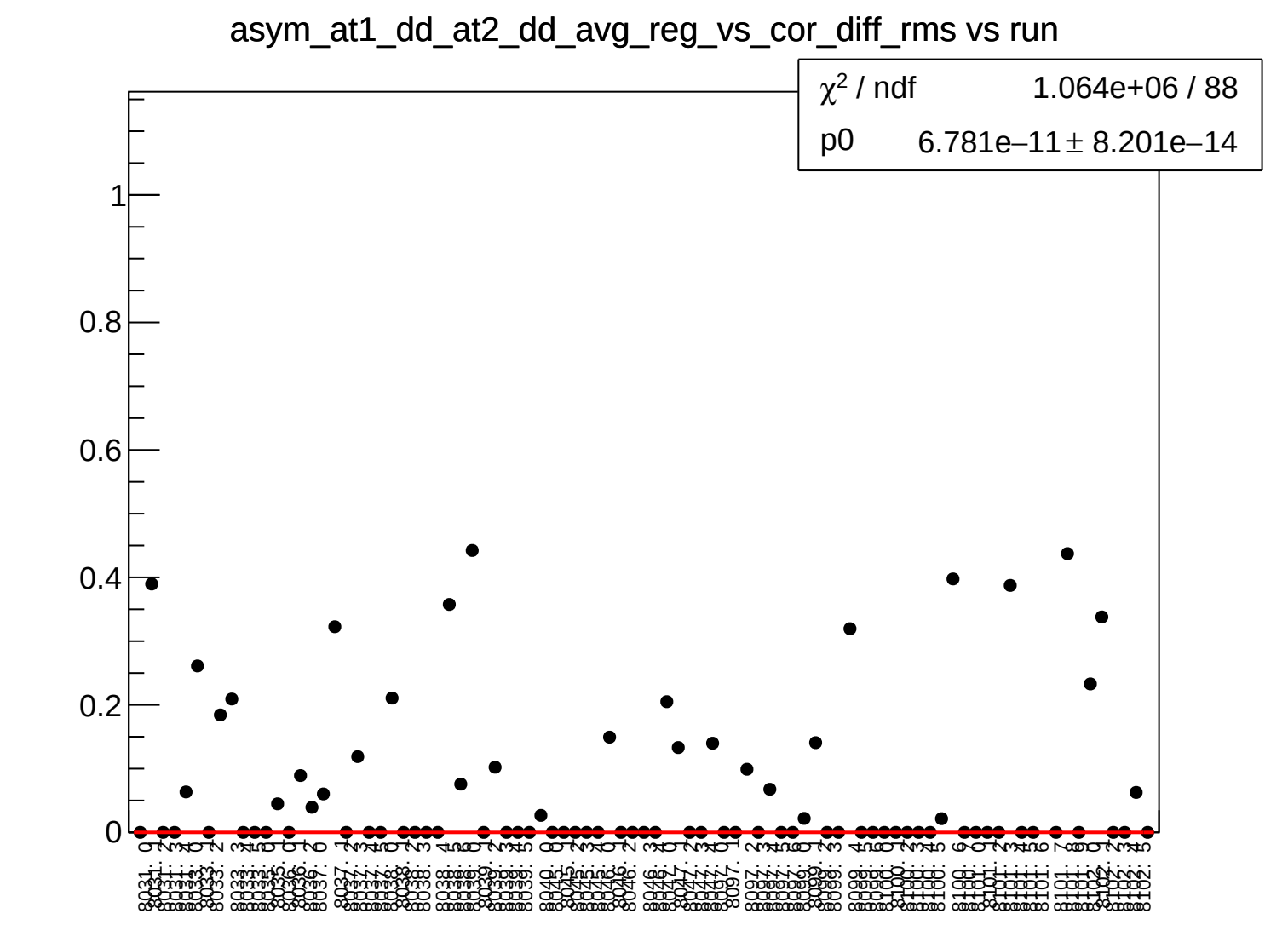

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.992e+04 / 88
p0 1040 ± 0.7934
1300
1250
1200
1150
1100
1050
1000
950
900
850

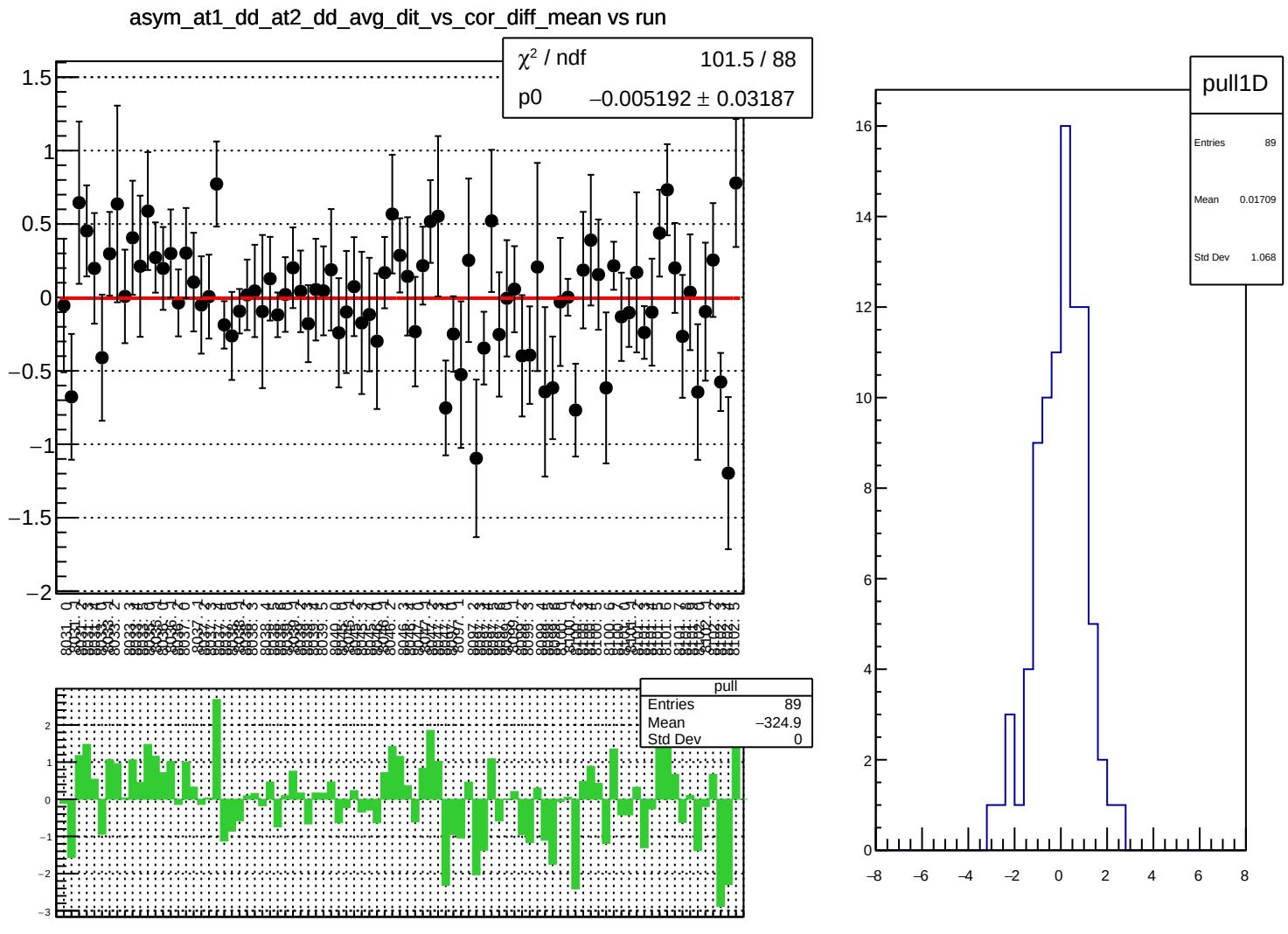

asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 75.81 / 88
p0 −1703 ± 1737
pull
Entries 89
Mean 93.54
Std Dev 33.84

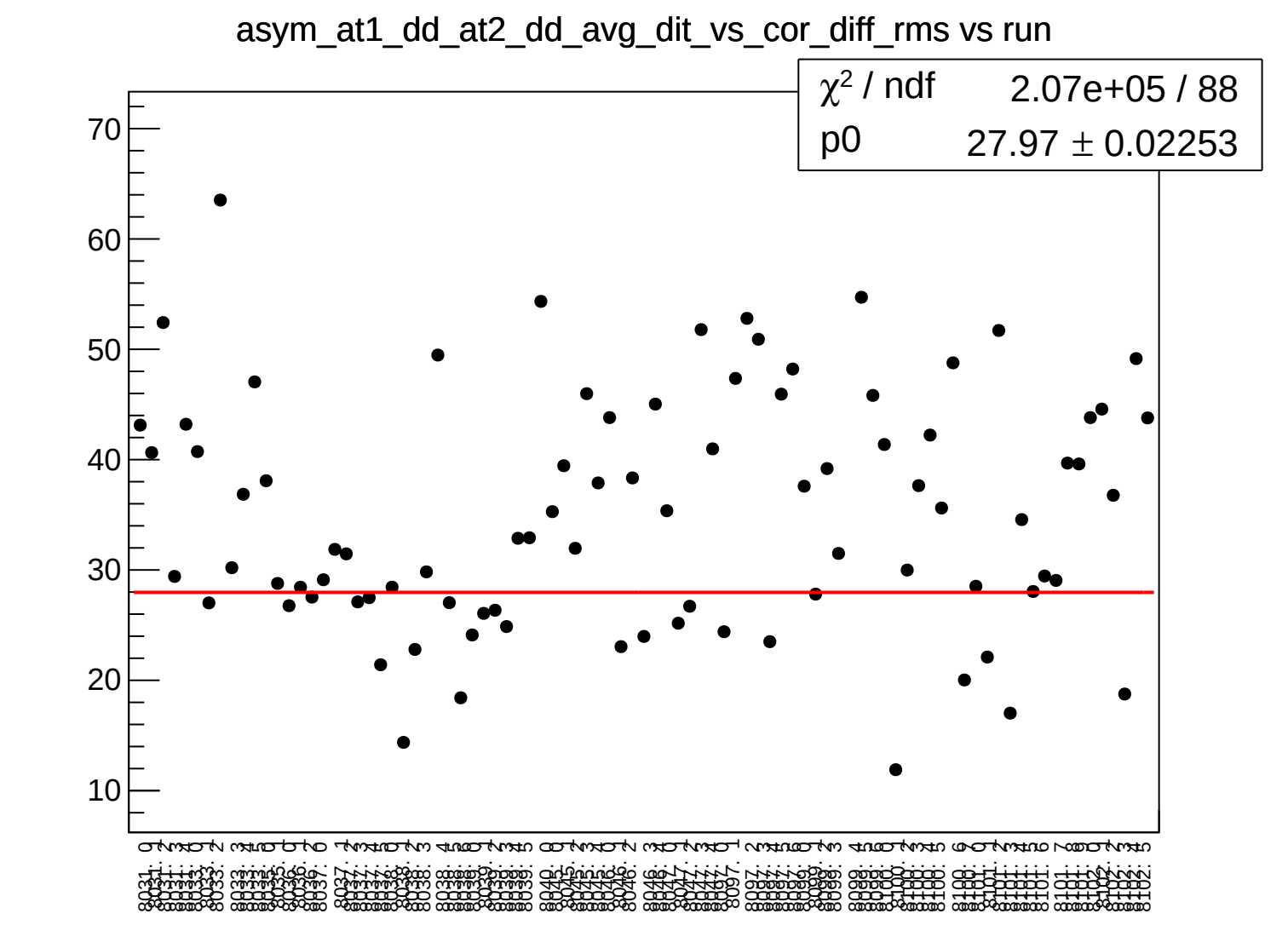

pull1D
Entries 89
Mean 0.01223
Std Dev 0.9228

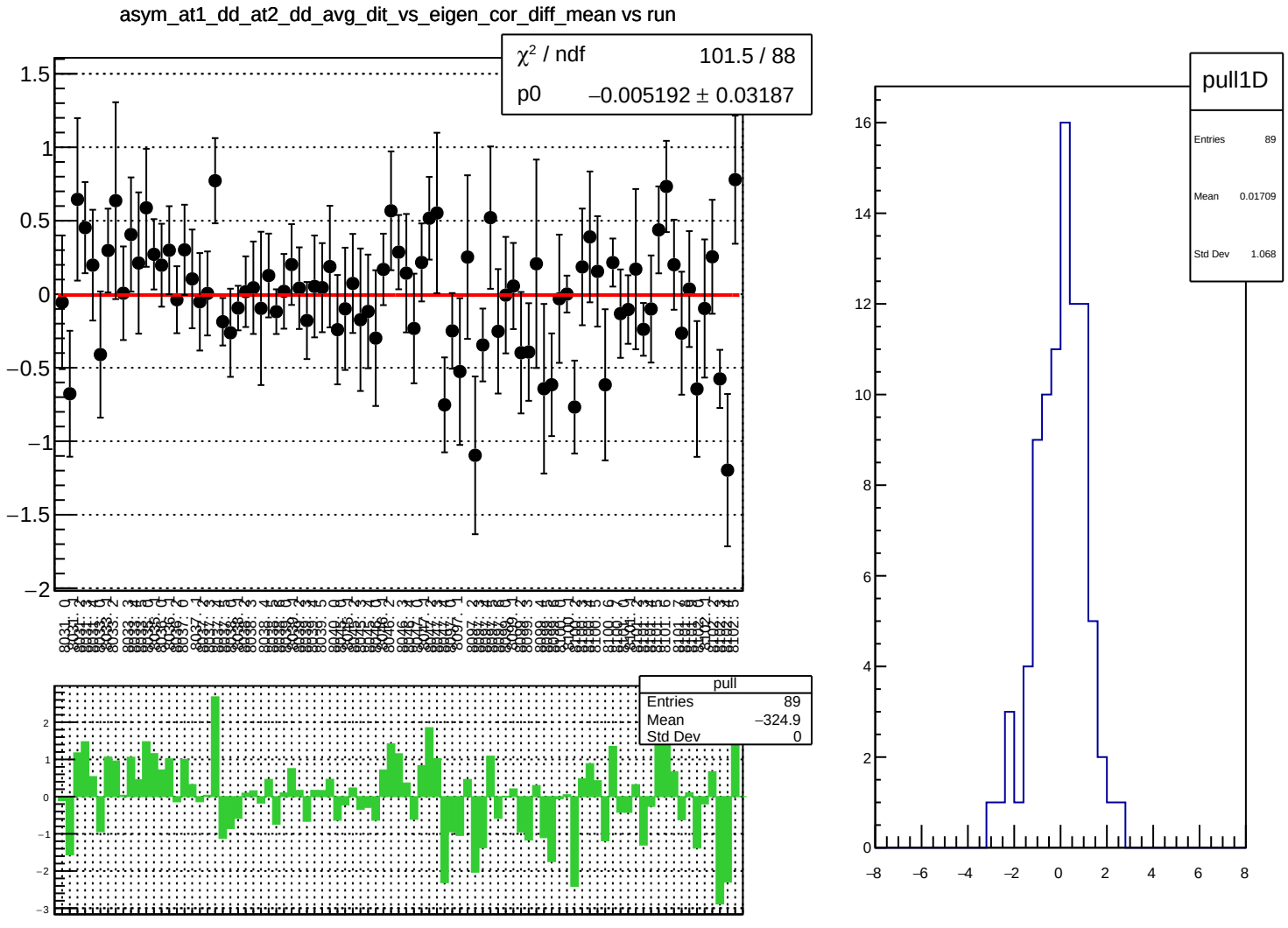

asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 9748 / 88
p0 1619 ± 1.228
1800
1750
1700
1650
1600
1550
1500
1450

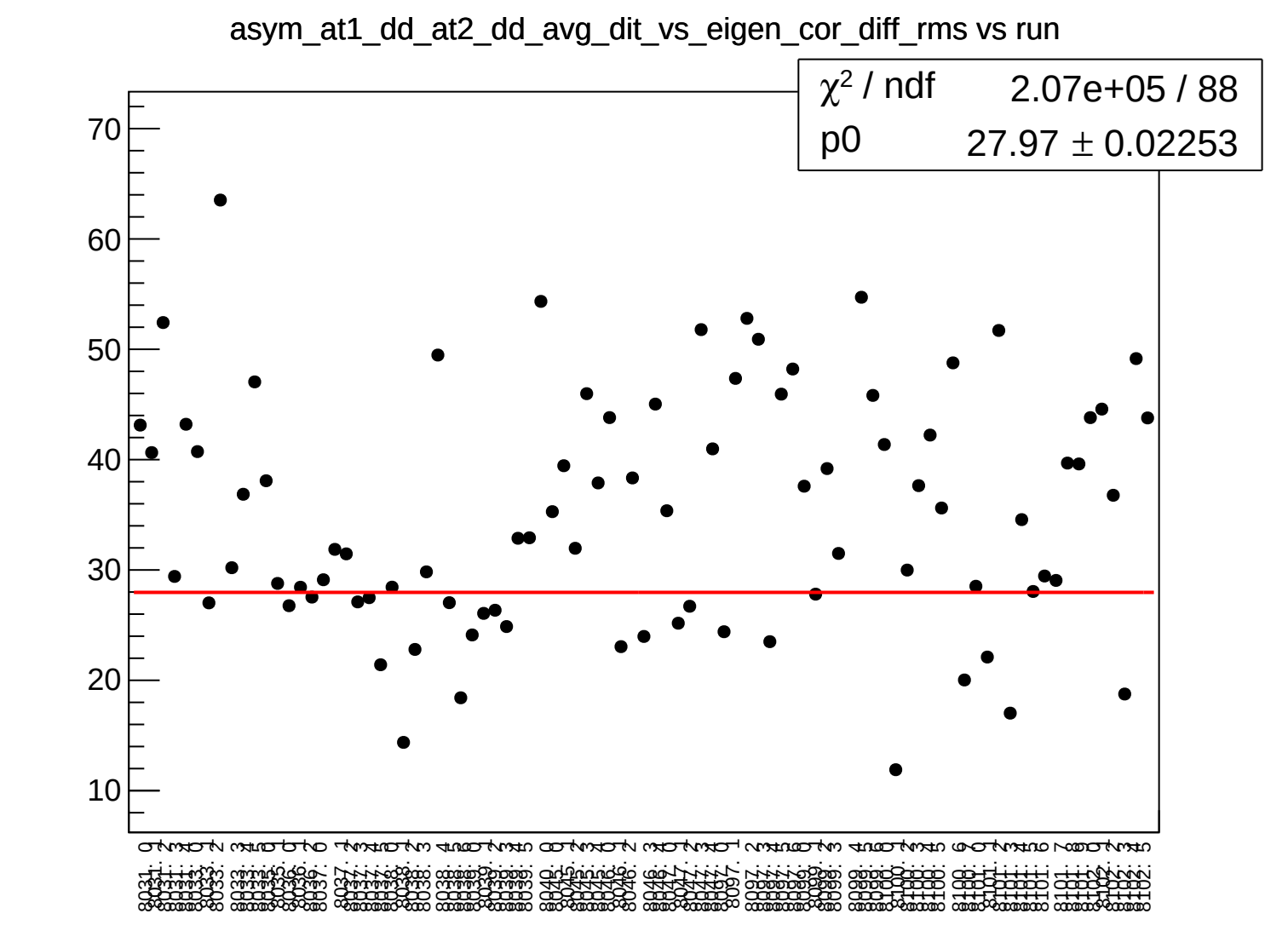

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 103.9 / 88
p0 −6.971e−14 ± 1.16e−13
0.01
0
−0.01
−0.02
−0.03
pull
Entries 89
Mean 19.77
Std Dev 22.7
pull1D
Entries 89
Mean −0.04978
Std Dev 1.079

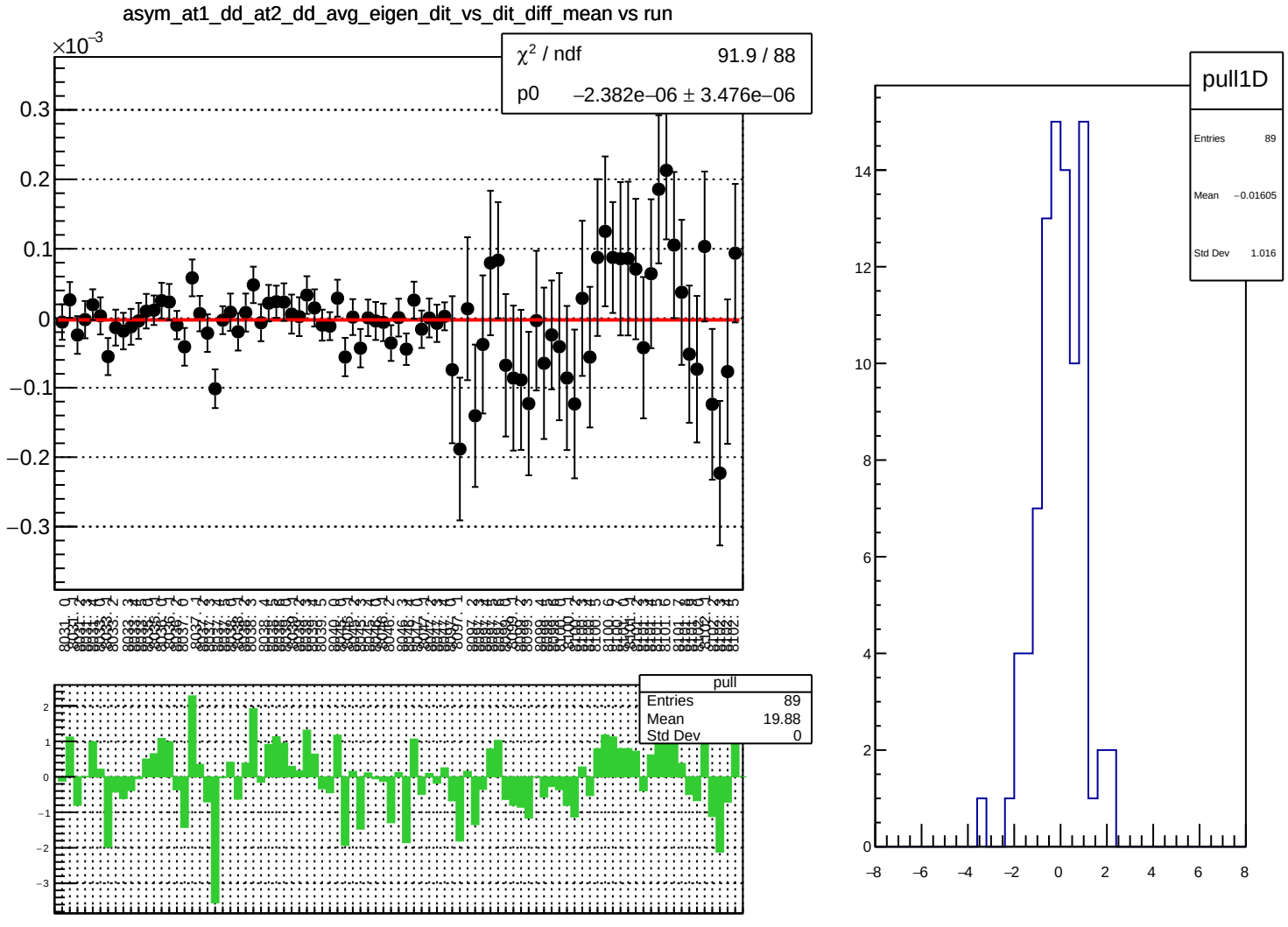

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.064e+06 / 88
p0 6.781e−11 ± 8.201e−14
1
0.8
0.6
0.4
0.2
0

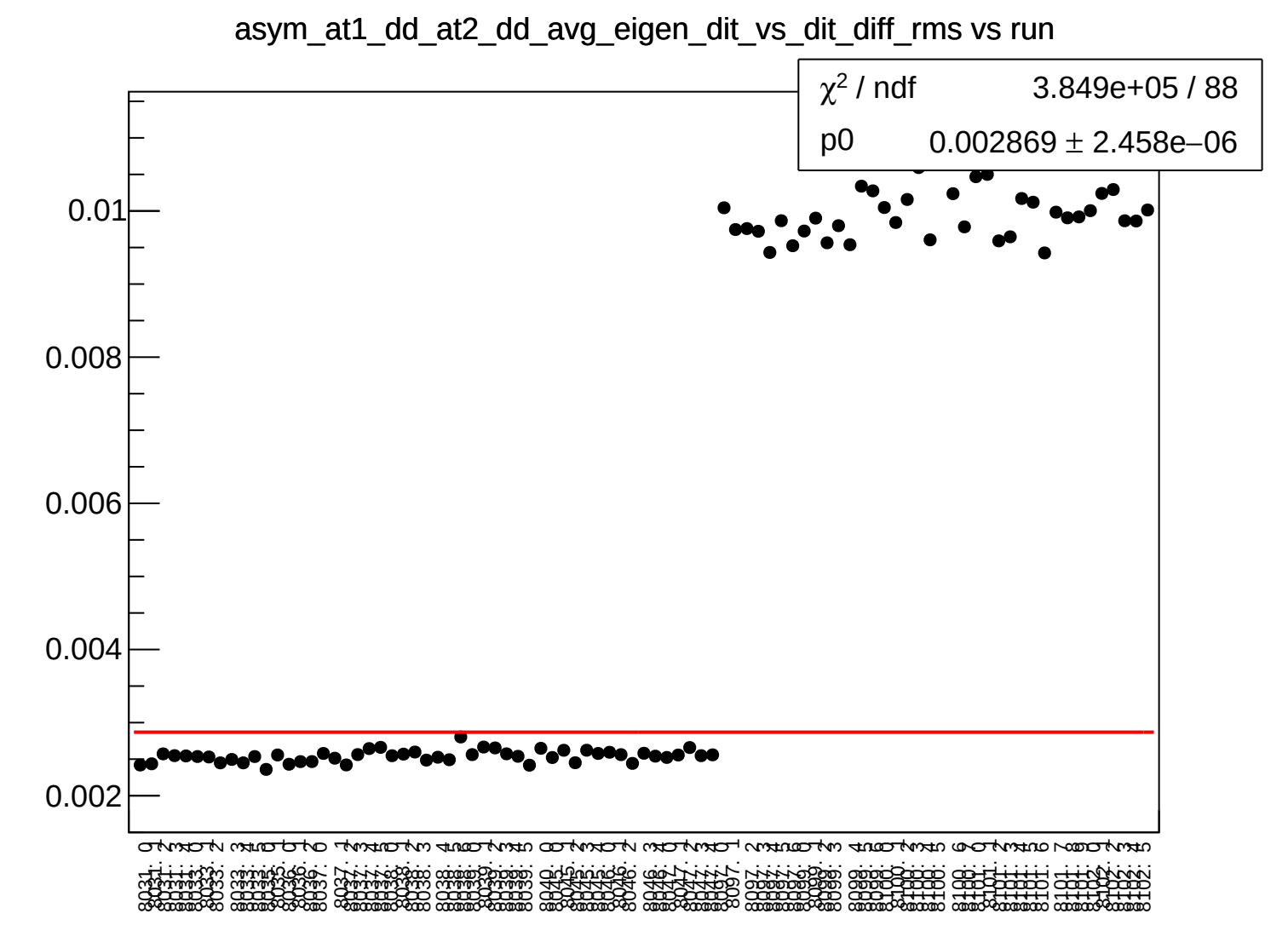

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 101.5 / 88
p0 −0.005192 ± 0.03187
pull
Entries 89
Mean −324.9
Std Dev 0
pull1D
Entries 89
Mean 0.01709
Std Dev 1.068

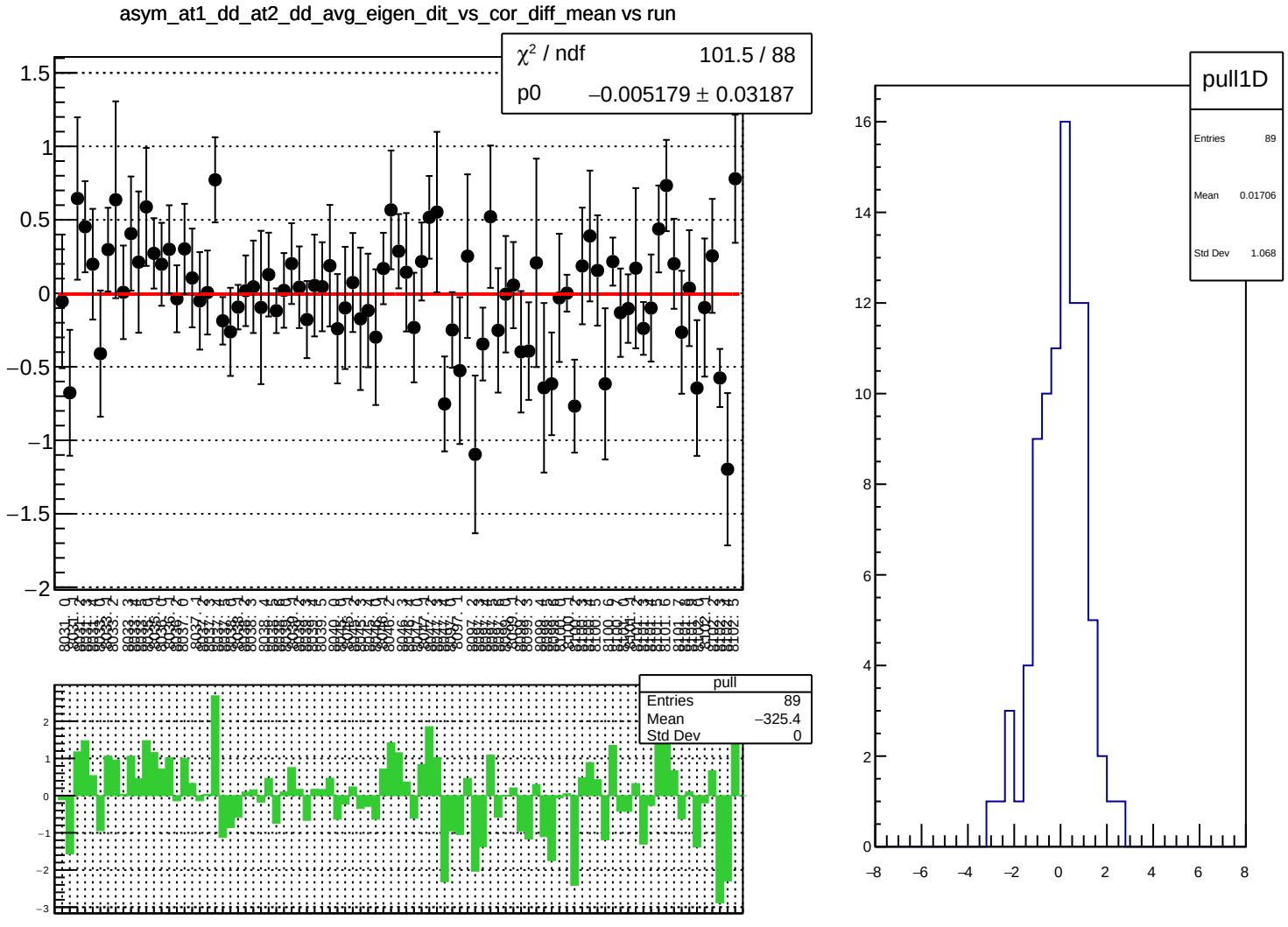

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.07e+05 / 88
p0 27.97 ± 0.02253
70
60
50
40
30
20
10

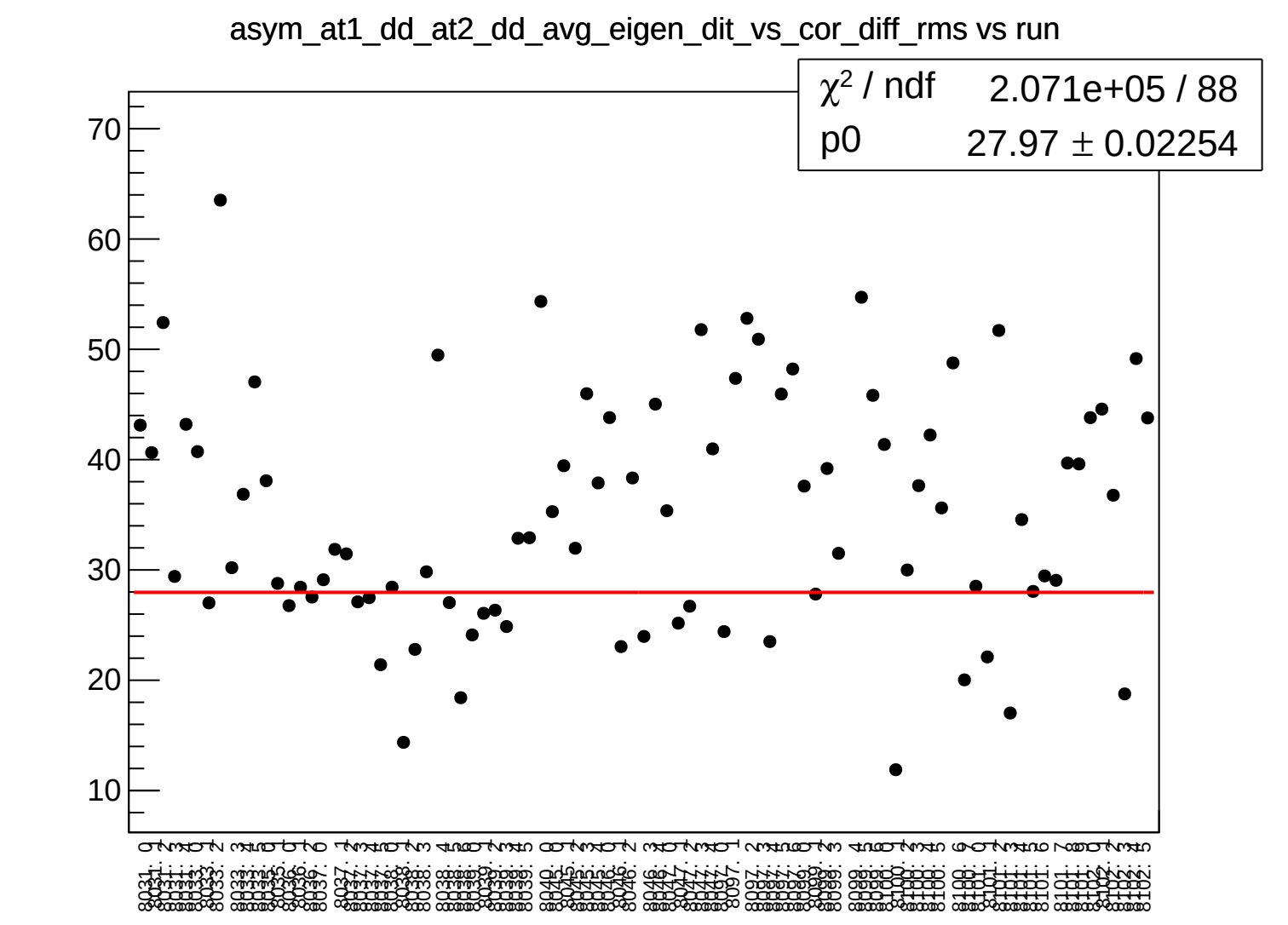

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.5 / 88
p0 −0.005192 ± 0.03187
pull
Entries 89
Mean −324.9
Std Dev 0
pull1D
Entries 89
Mean 0.01709
Std Dev 1.068

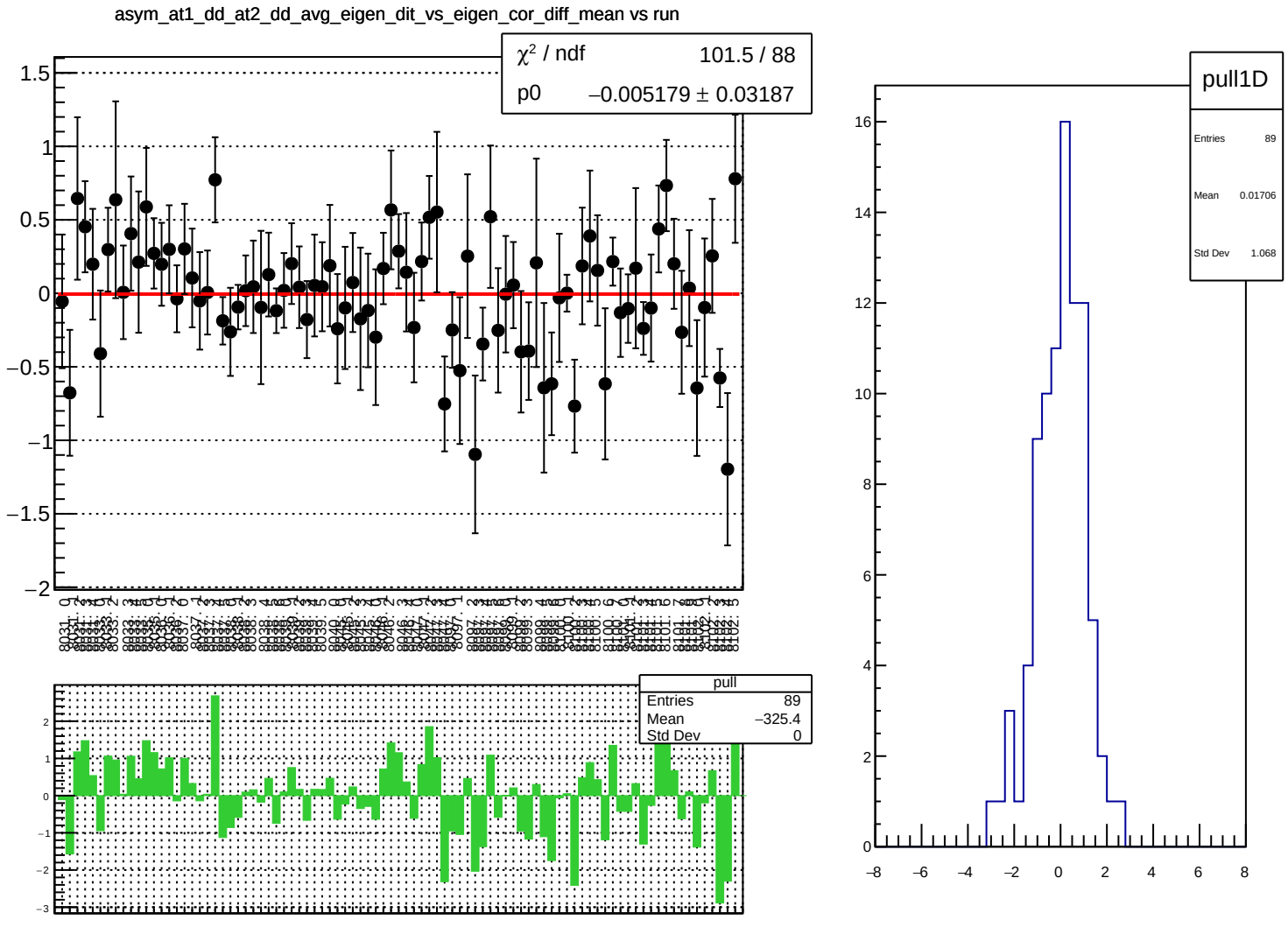

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.07e+05 / 88
p0 27.97 ± 0.02253
70
60
50
40
30
20
10

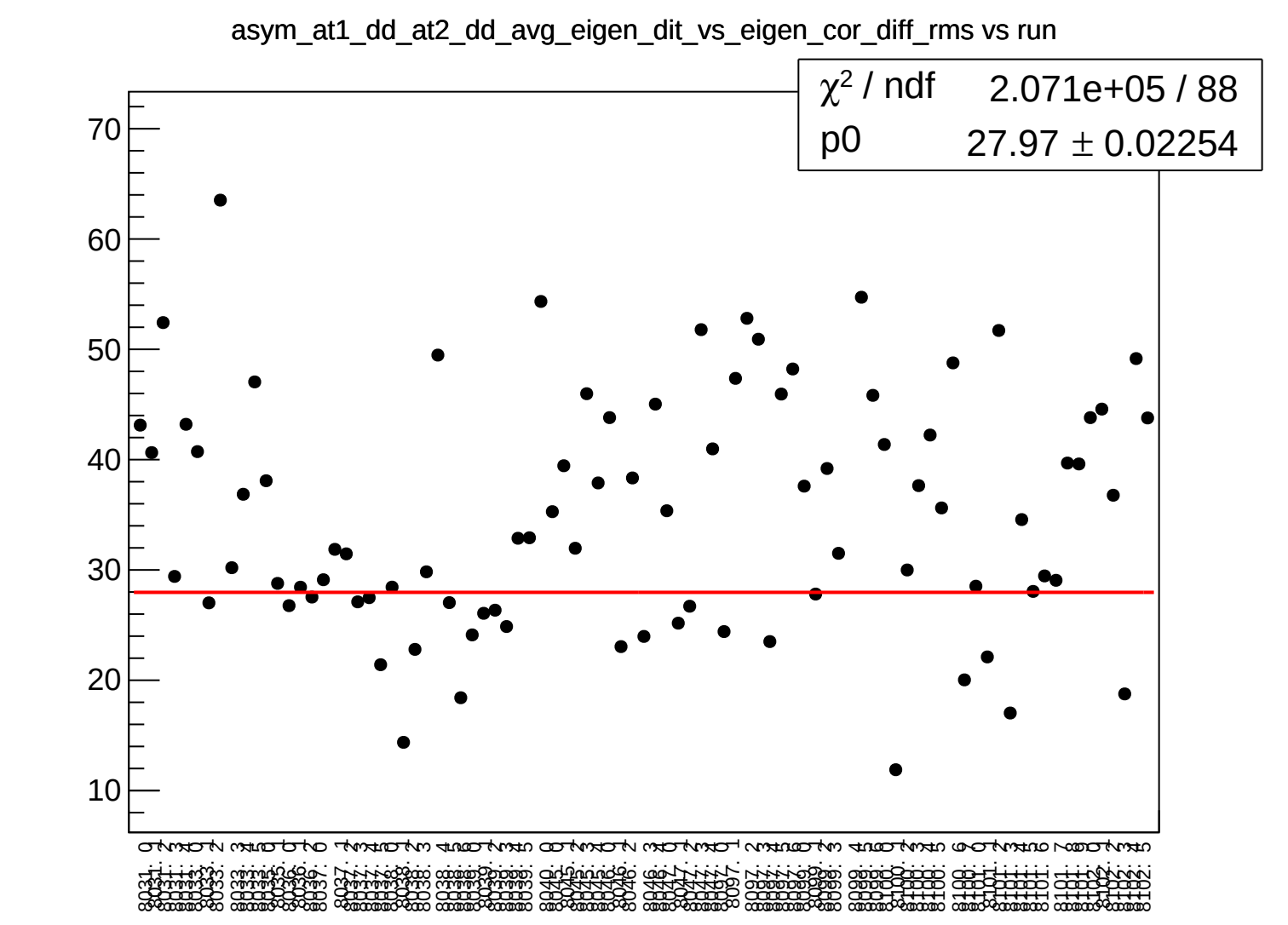

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 91.9 / 88
p0 −2.382e−06 ± 3.476e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 89
Mean 19.88
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.01605
Std Dev 1.016
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

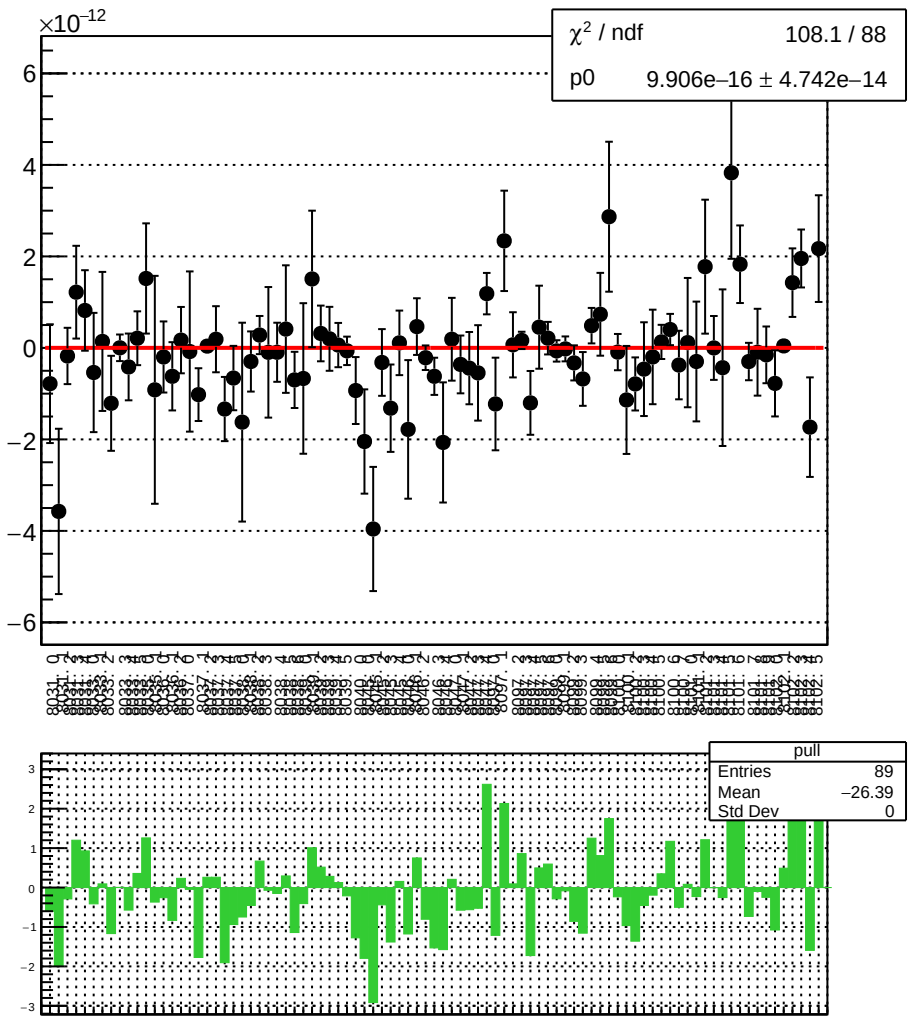

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.849e+05 / 88
p0 0.002869 ± 2.458e−06
0.01
0.008
0.006
0.004
0.002

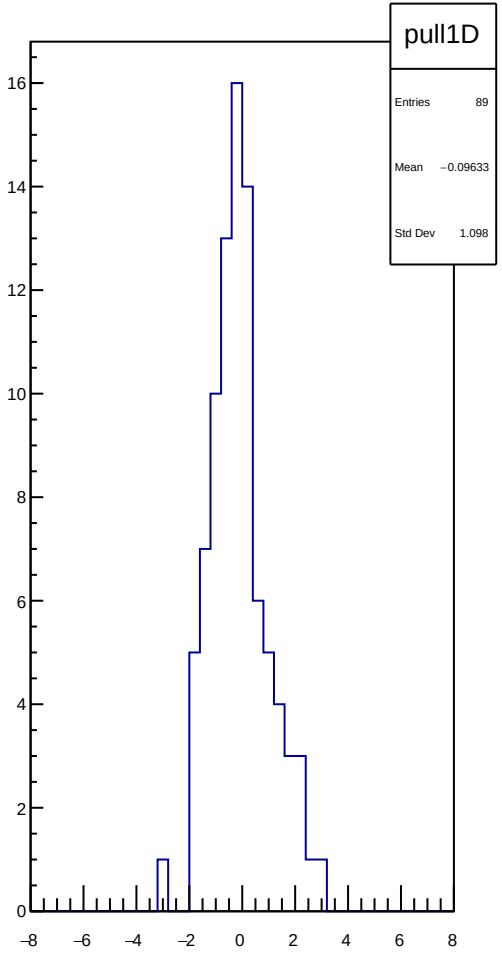

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101.5 / 88
p0 −0.005179 ± 0.03187
pull
Entries 89
Mean −325.4
Std Dev 0
pull1D
Entries 89
Mean 0.01706
Std Dev 1.068

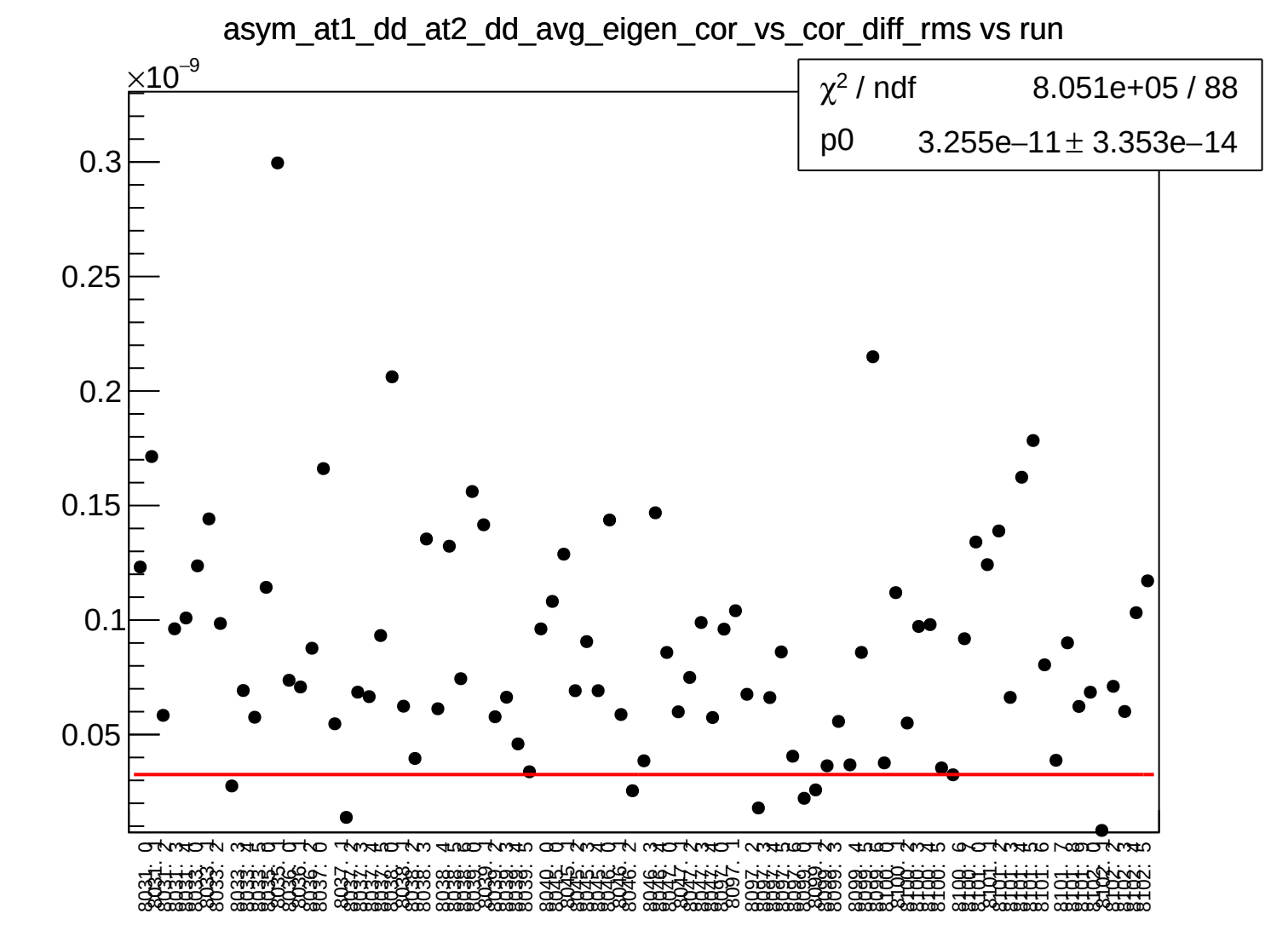

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.071e+05 / 88
p0 27.97 ± 0.02254
70
60
50
40
30
20
10

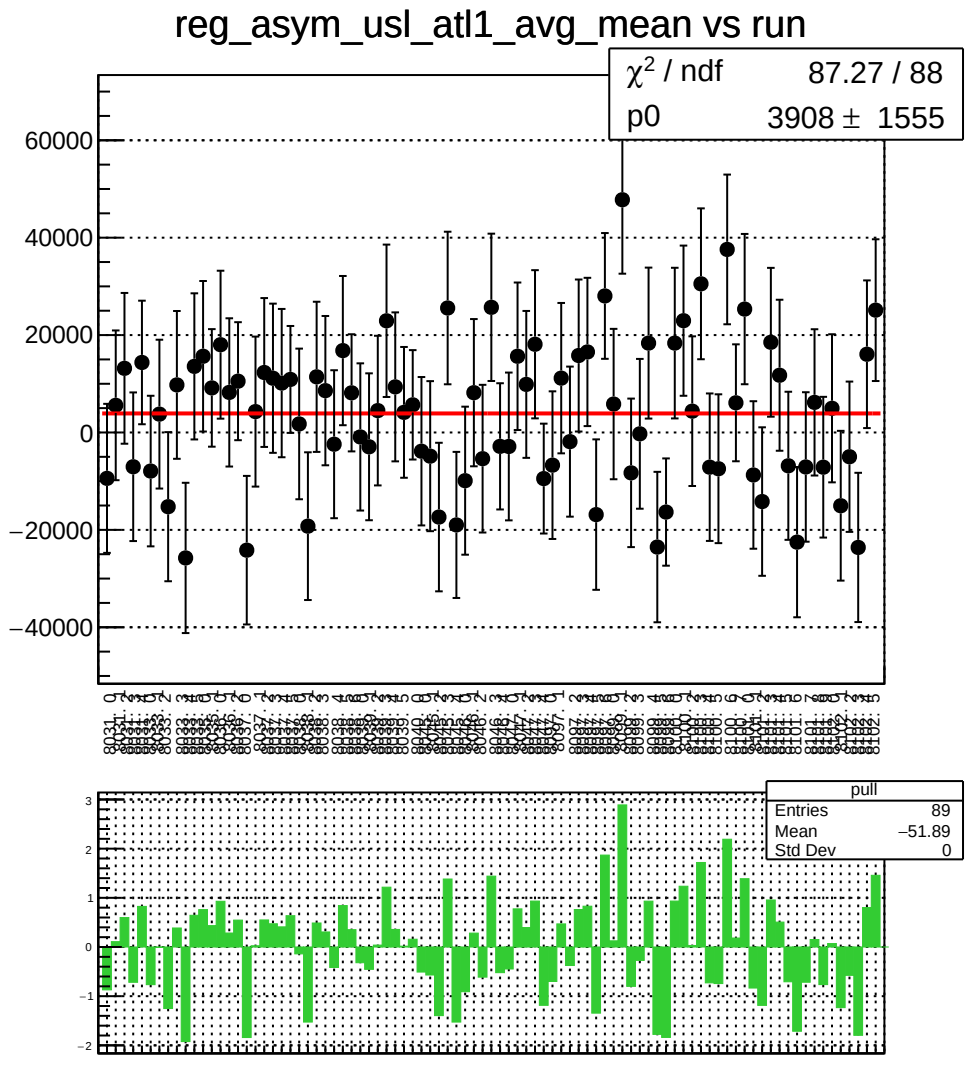

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.5 / 88
p0 −0.005179 ± 0.03187
pull
Entries 89
Mean −325.4
Std Dev 0
pull1D
Entries 89
Mean 0.01706
Std Dev 1.068

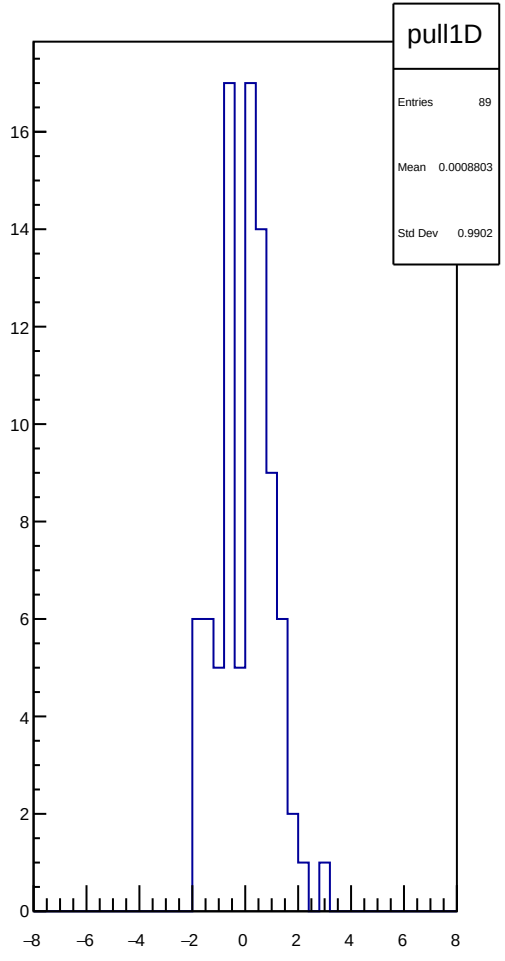

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.071e+05 / 88
p0 27.97 ± 0.02254
70
60
50
40
30
20
10

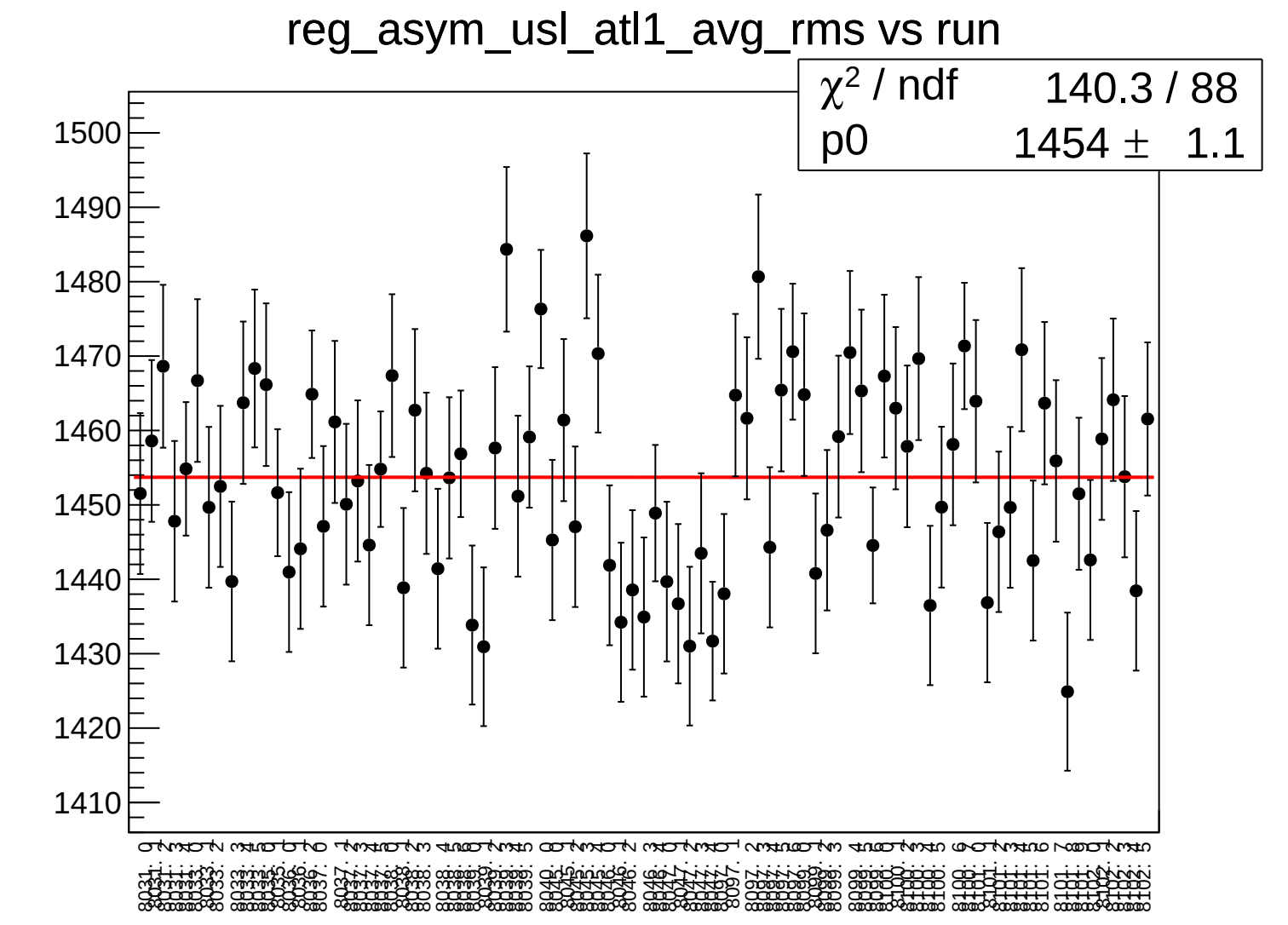

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 108.1 / 88
p0 9.906e−16 ± 4.742e−14
pull
Entries 89
Mean −26.39
Std Dev 0

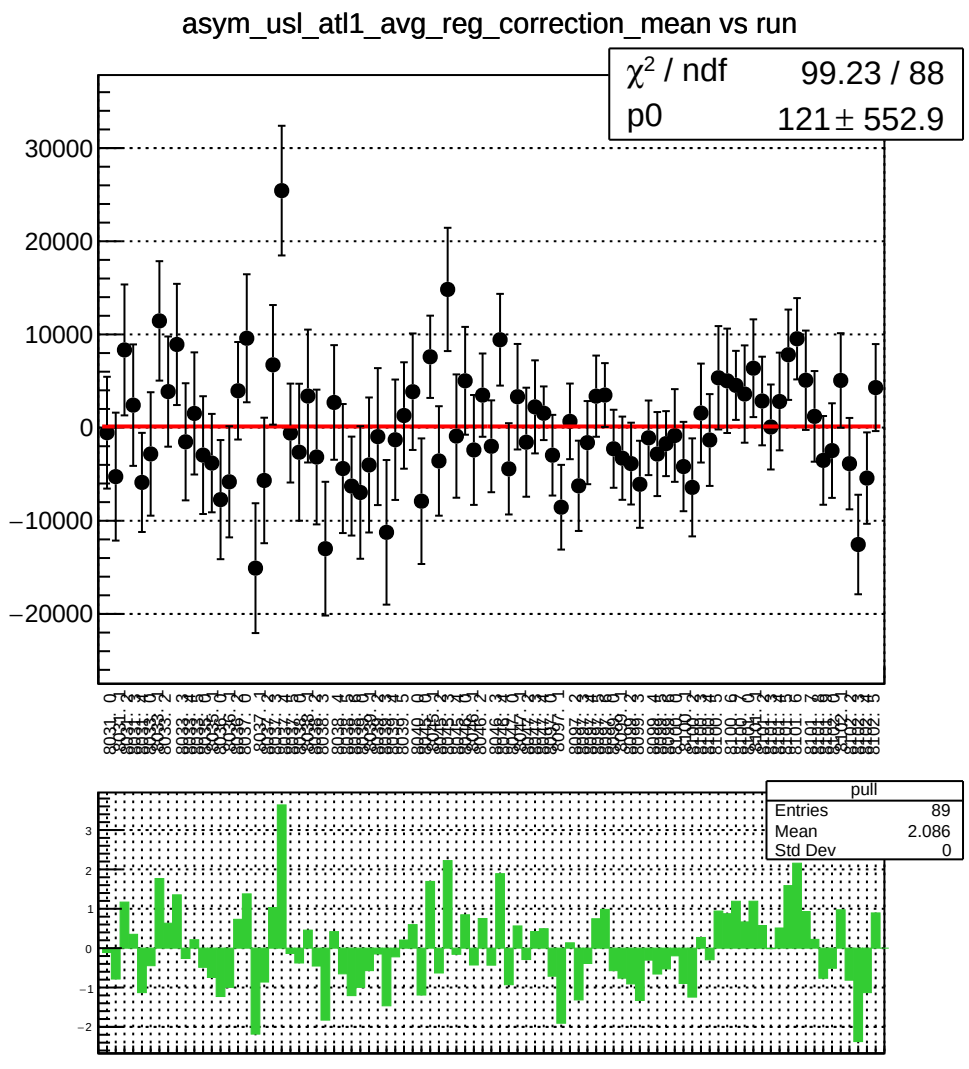

pull1D
Entries 89
Mean −0.09633
Std Dev 1.098

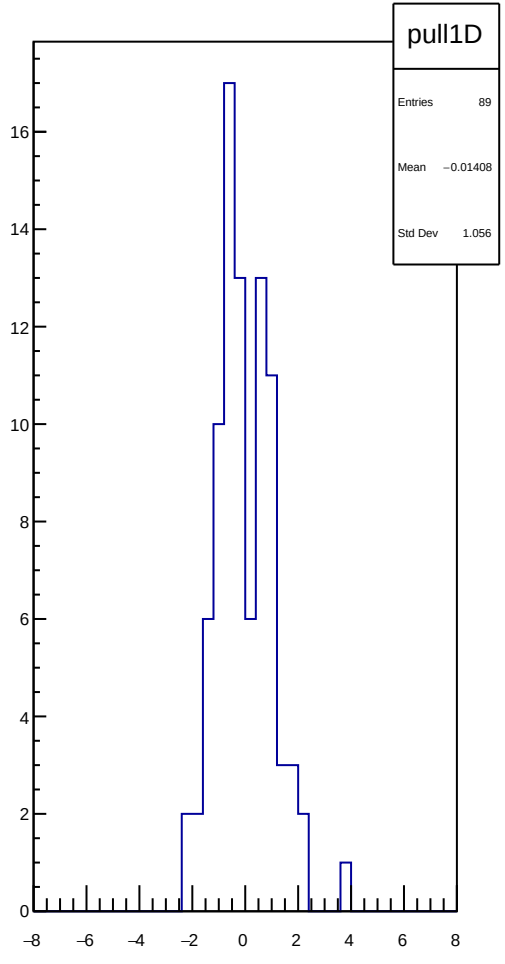

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.051e+05 / 88
p0 3.255e−11 ± 3.353e−14
0.3
0.25
0.2
0.15
0.1
0.05

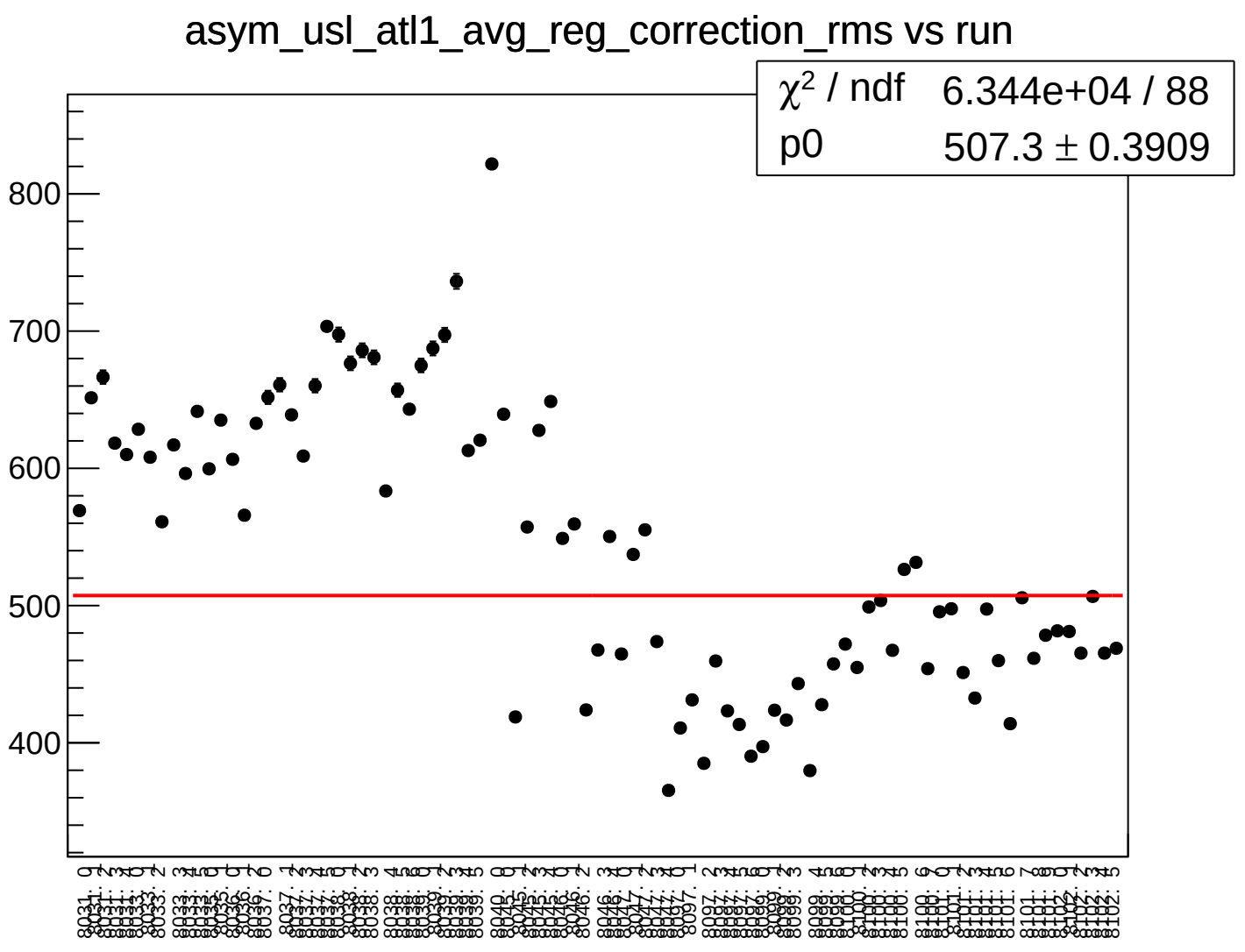

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 87.27 / 88
p0 3908 ± 1555
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −51.89
Std Dev 0
3
2
1
0
−1
−2

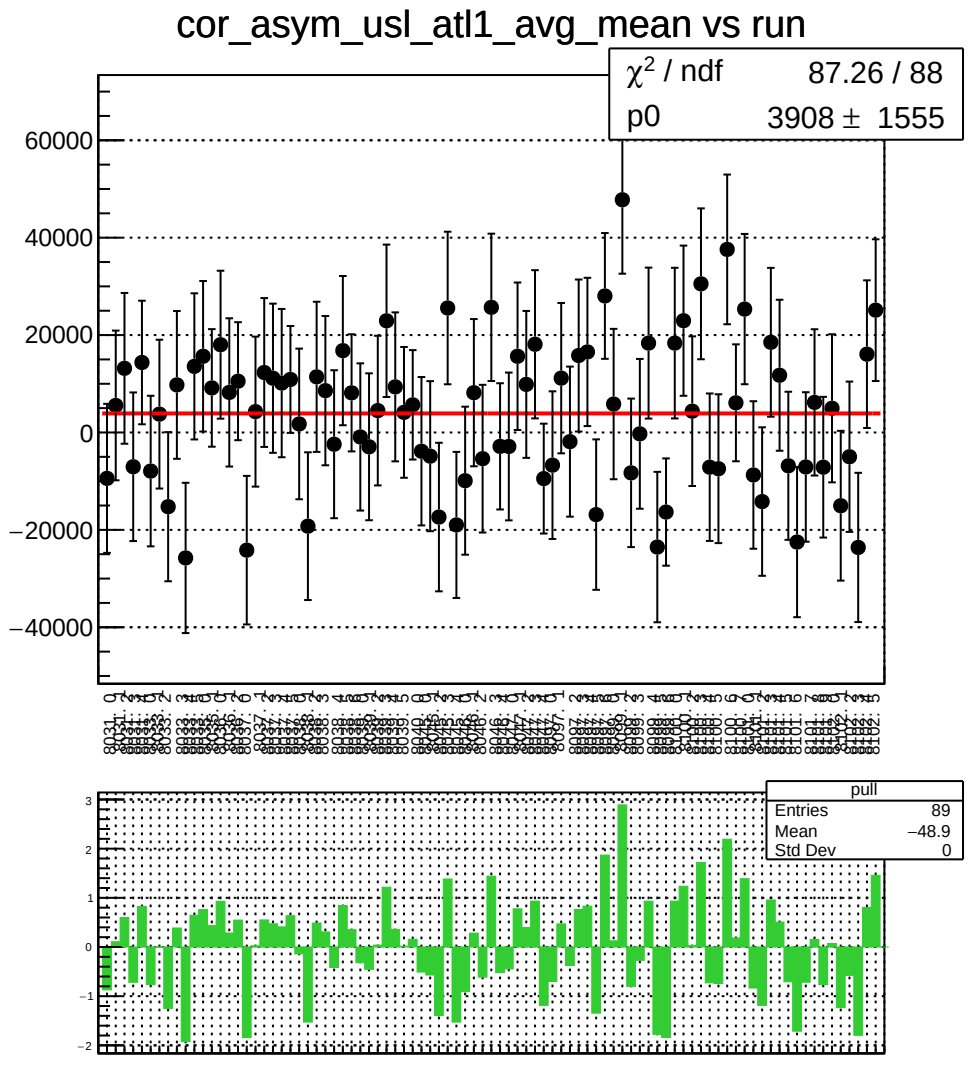

pull1D
Entries 89
Mean 0.0008803
Std Dev 0.9902
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

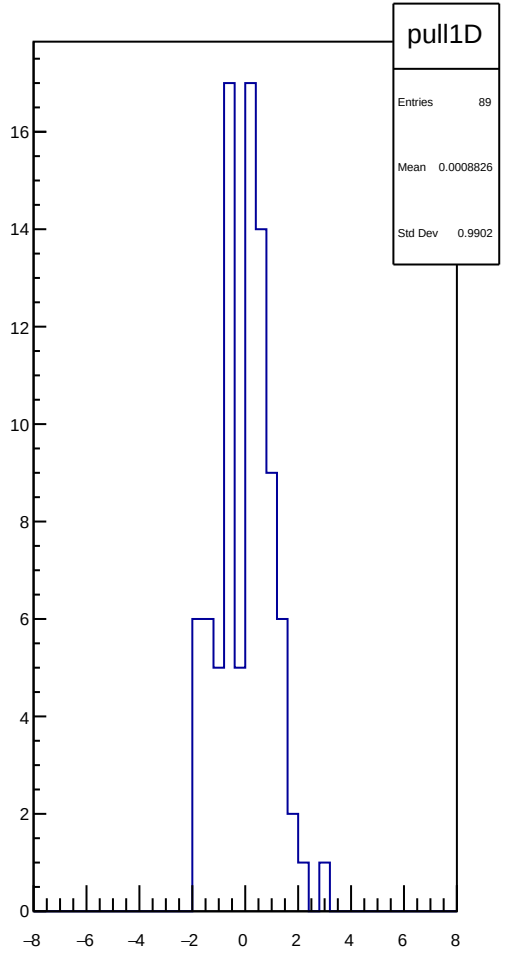

reg_asym_usl_atl1_avg_rms vs run
χ² / ndf 140.3 / 88
p0 1454 ± 1.1
1500
1490
1480
1470
1460
1450
1440
1430
1420
1410

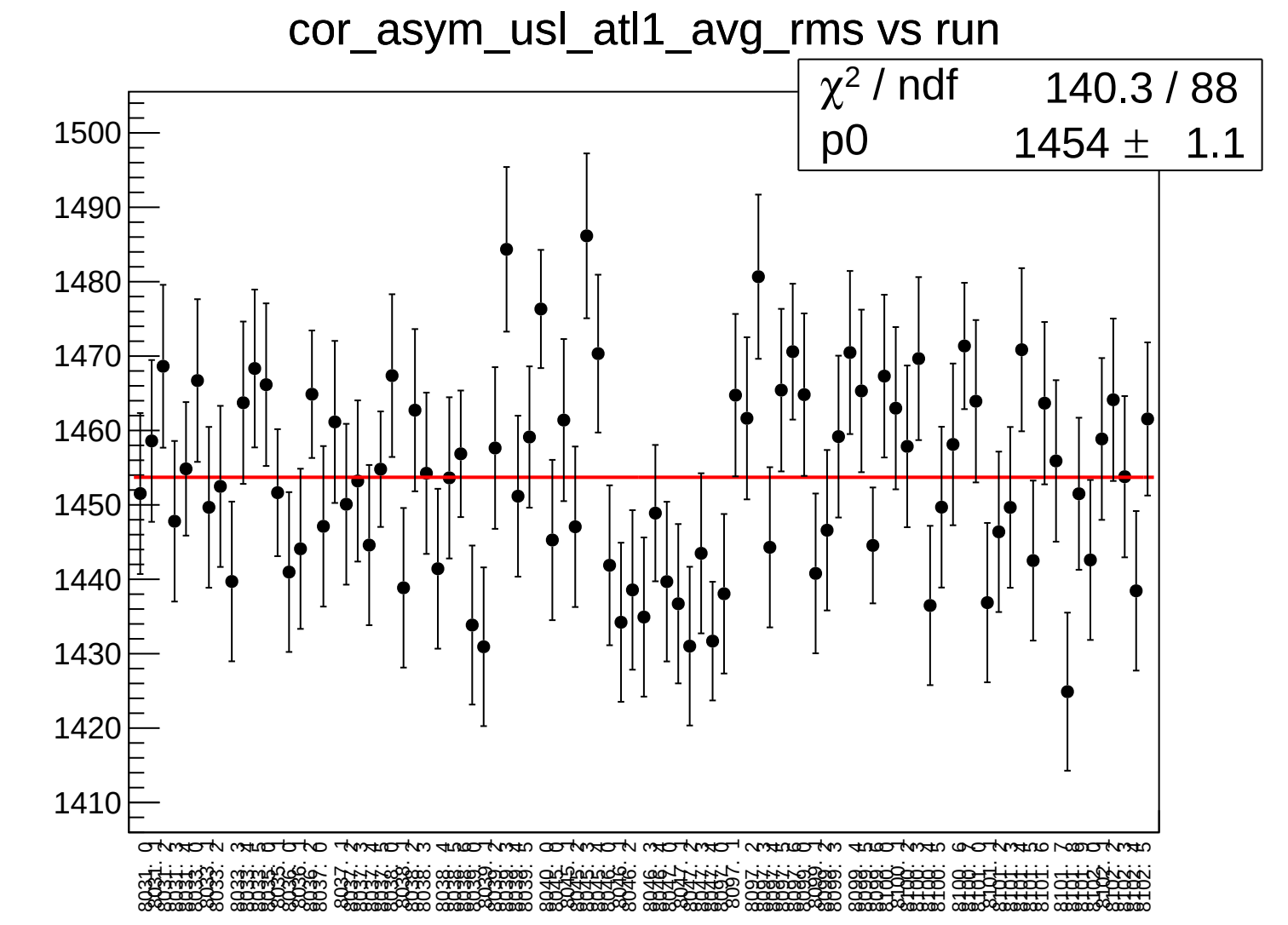

asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 99.23 / 88
p0 121 ± 552.9
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 2.086
Std Dev 0
3
2
1
0
−1
−2

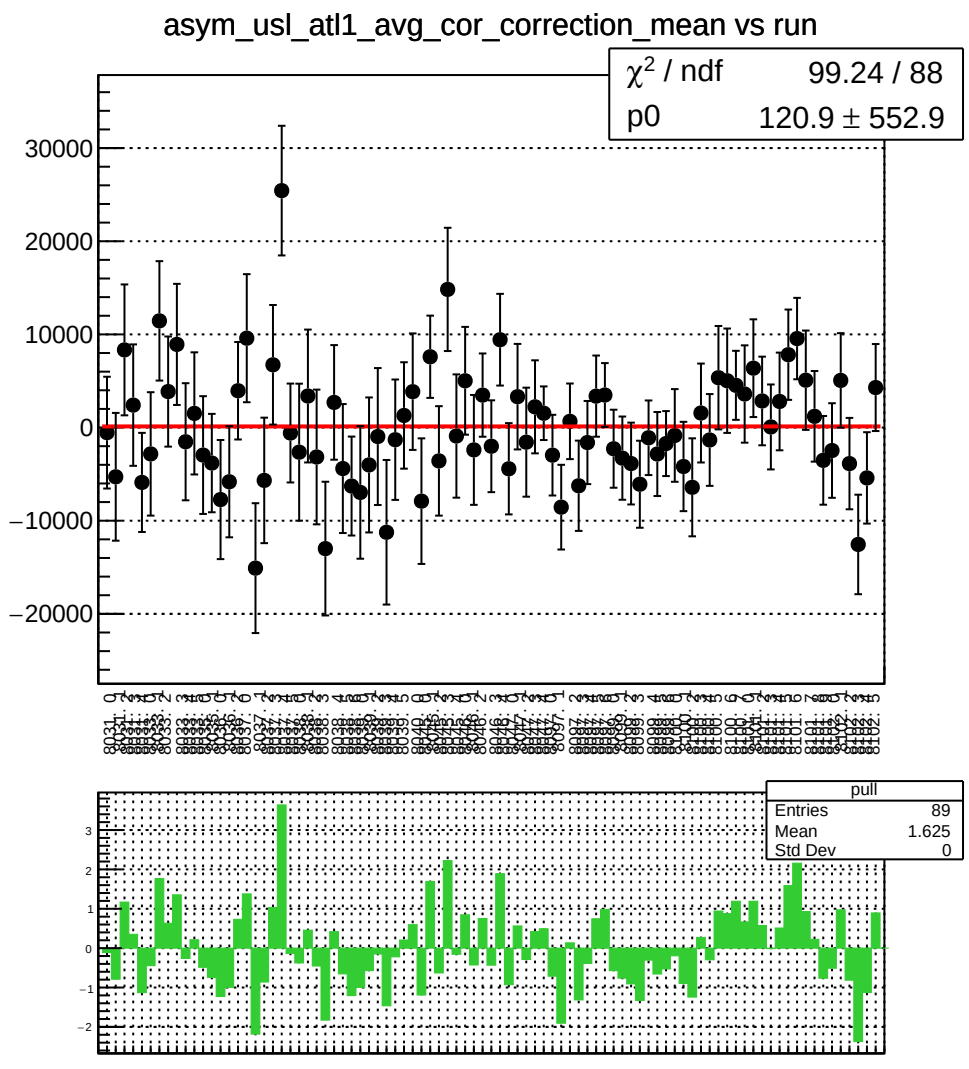

pull1D
Entries 89
Mean −0.01408
Std Dev 1.056
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

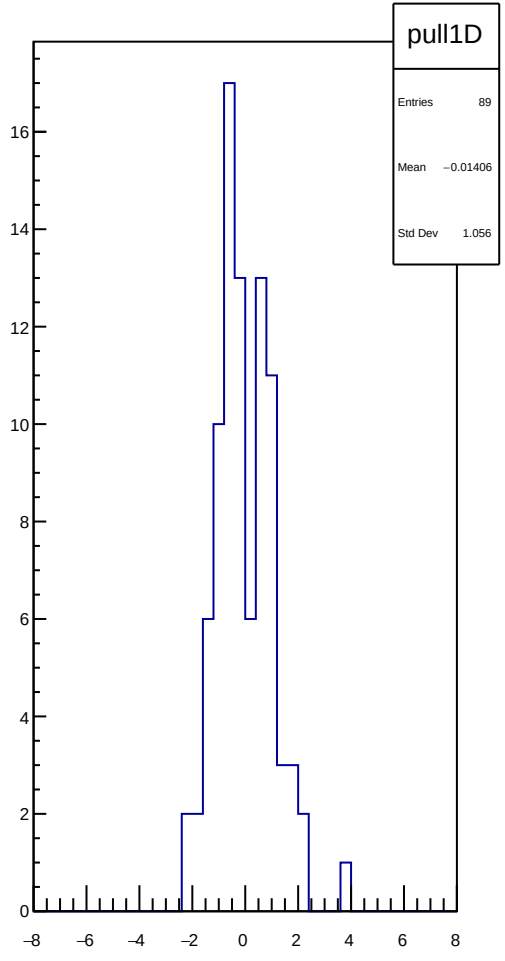

asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 6.344e+04 / 88
p0 507.3 ± 0.3909
800
700
600
500
400

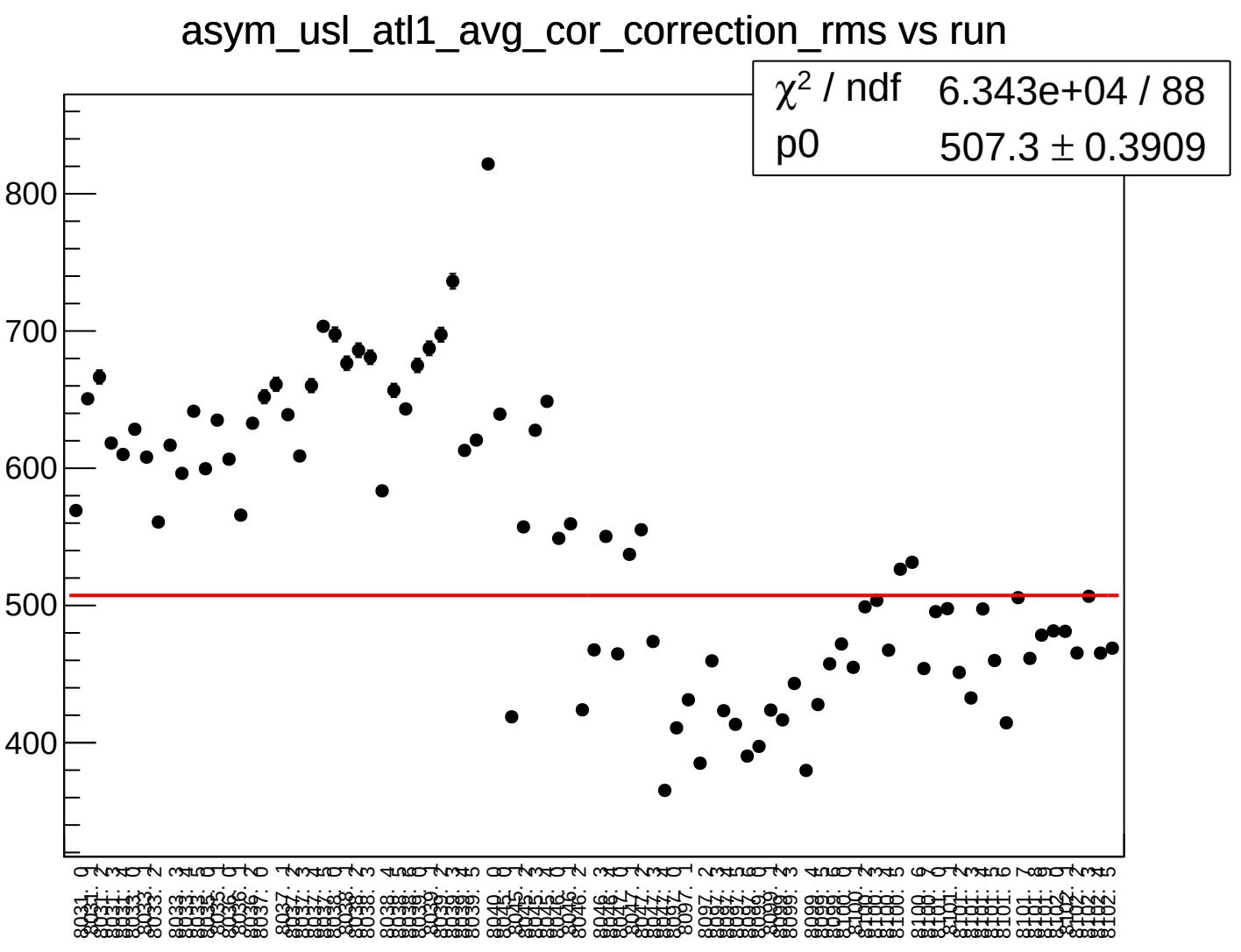

cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 87.26 / 88
p0 3908 ± 1555
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −48.9
Std Dev 0
3
2
1
0
−1
−2

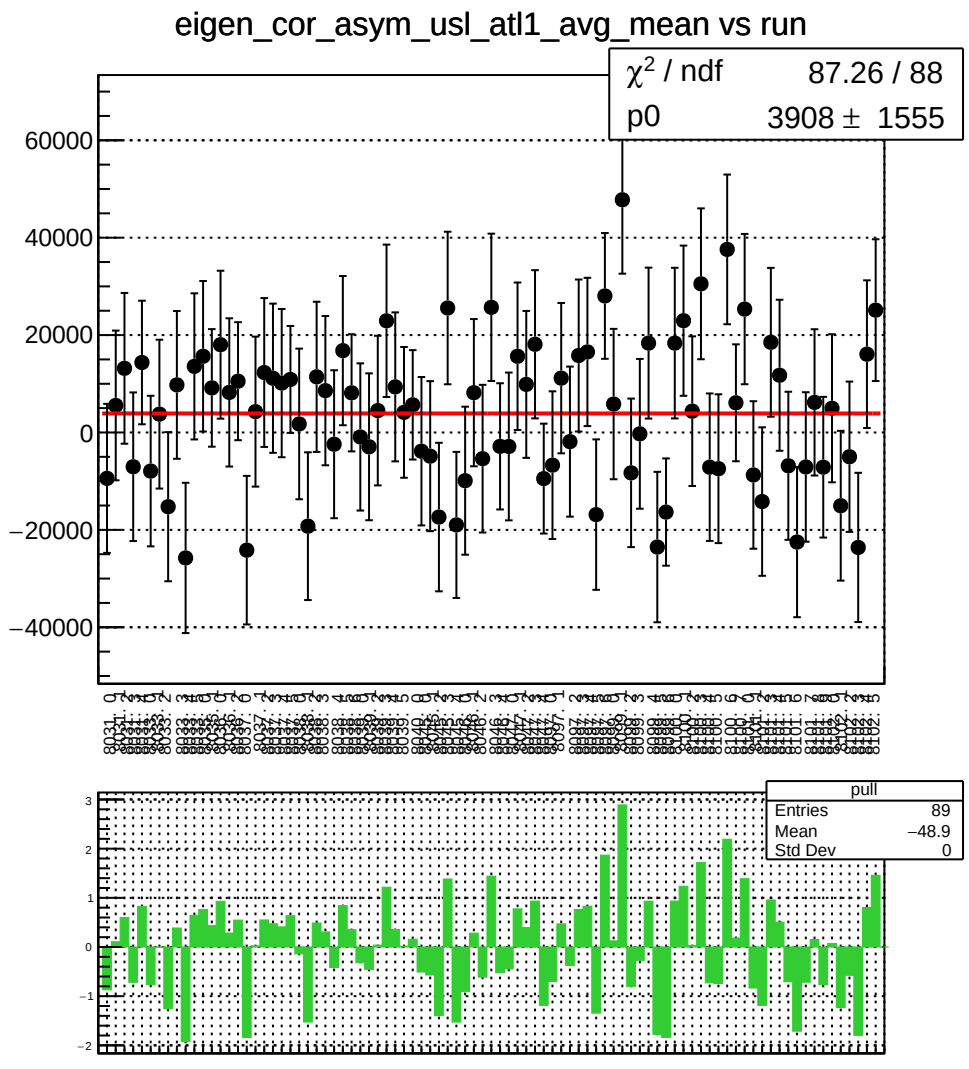

pull1D
Entries 89
Mean 0.0008826
Std Dev 0.9902
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

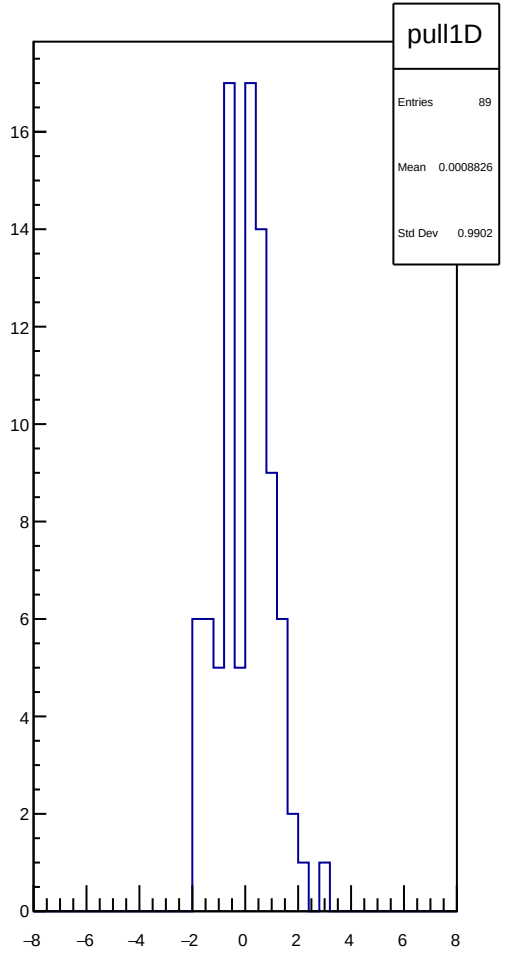

cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 140.3 / 88
p0 1454 ± 1.1
1500
1490
1480
1470
1460
1450
1440
1430
1420
1410

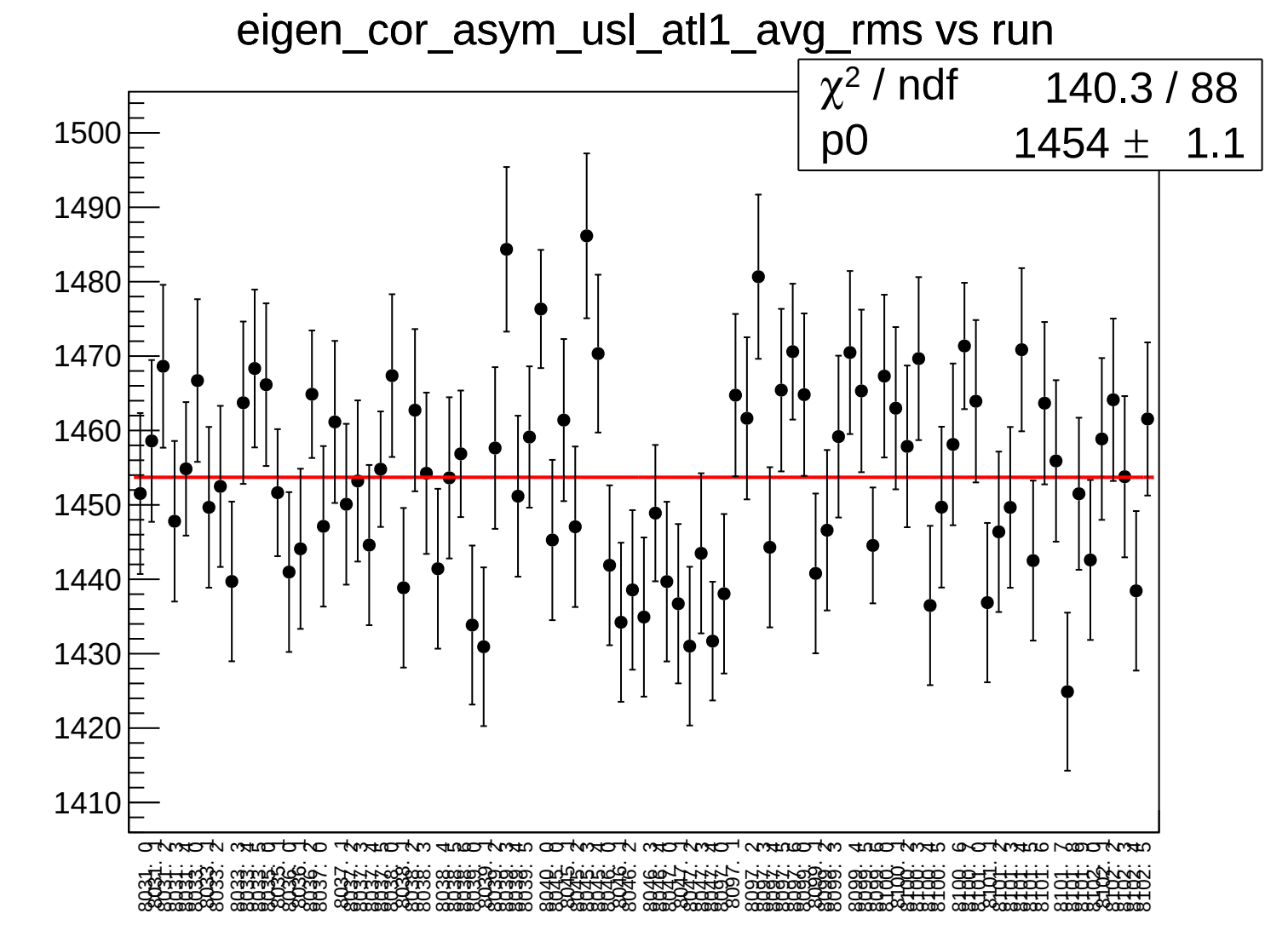

asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 99.24 / 88
p0 120.9 ± 552.9
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 1.625
Std Dev 0
3
2
1
0
−1
−2

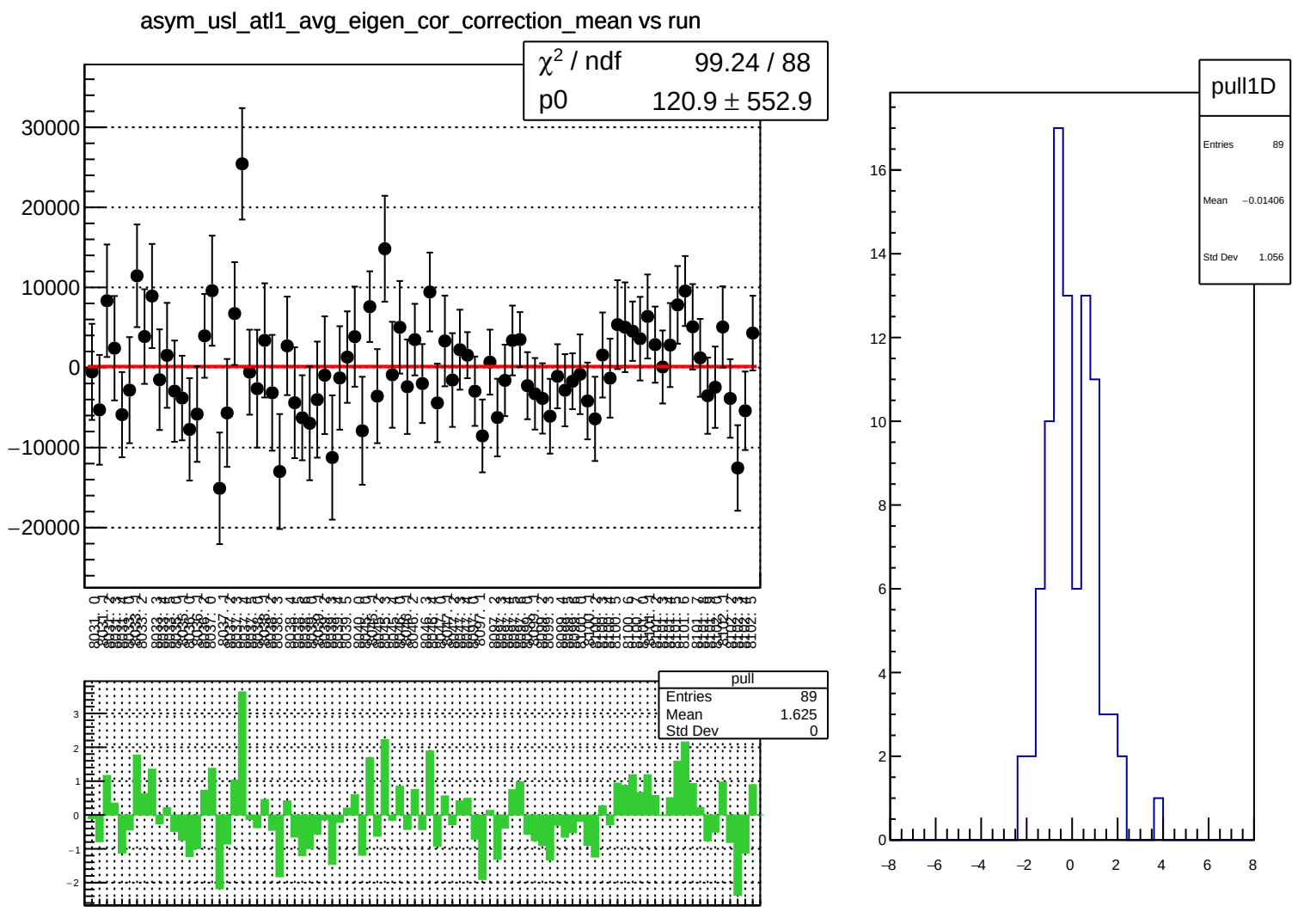

pull1D
Entries 89
Mean −0.01406
Std Dev 1.056
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

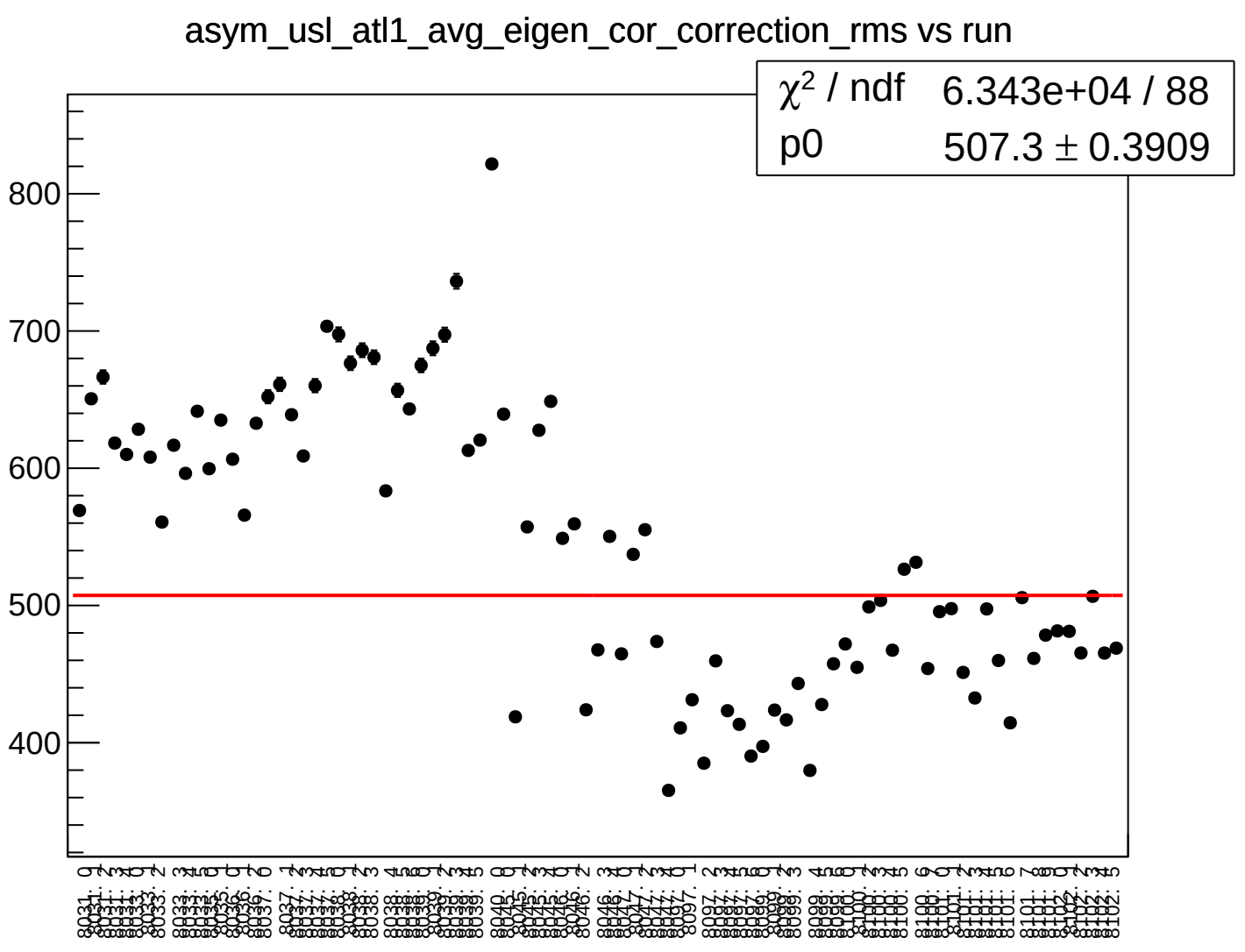

asym_usl_atl1_avg_cor_correction_rms vs run
$\chi^2$ / ndf 6.343e+04 / 88
p0 507.3 ± 0.3909
800
700
600
500
400

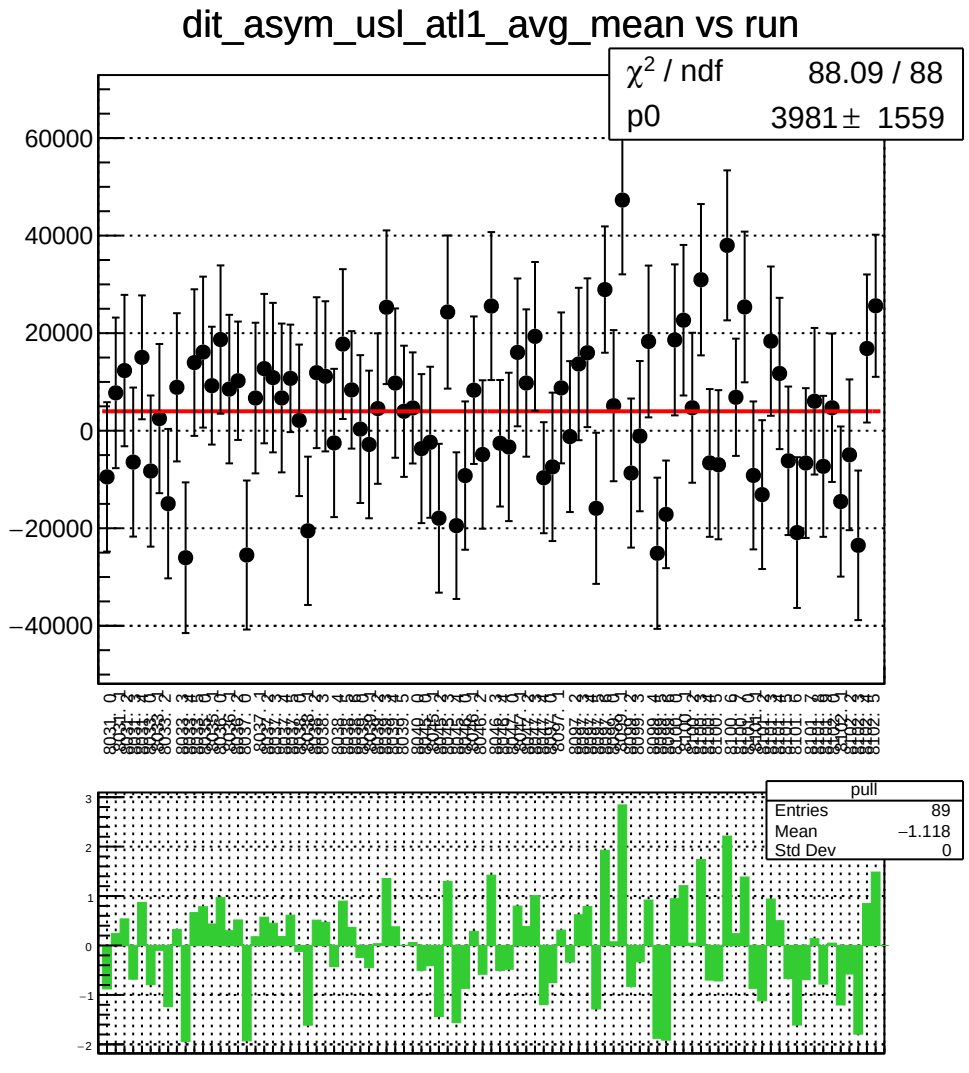

eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 87.26 / 88
p0 3908 ± 1555
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −48.9
Std Dev 0
3
2
1
0
−1
−2

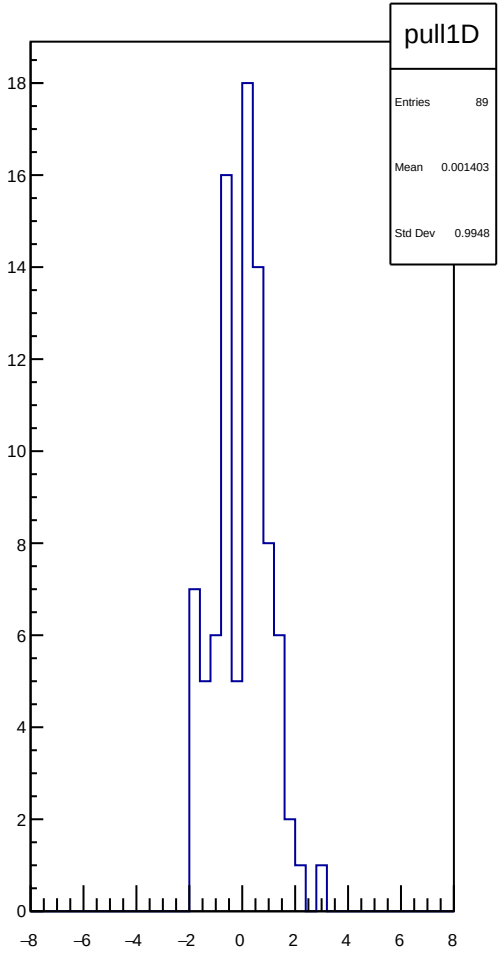

pull1D
Entries 89
Mean 0.0008826
Std Dev 0.9902
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

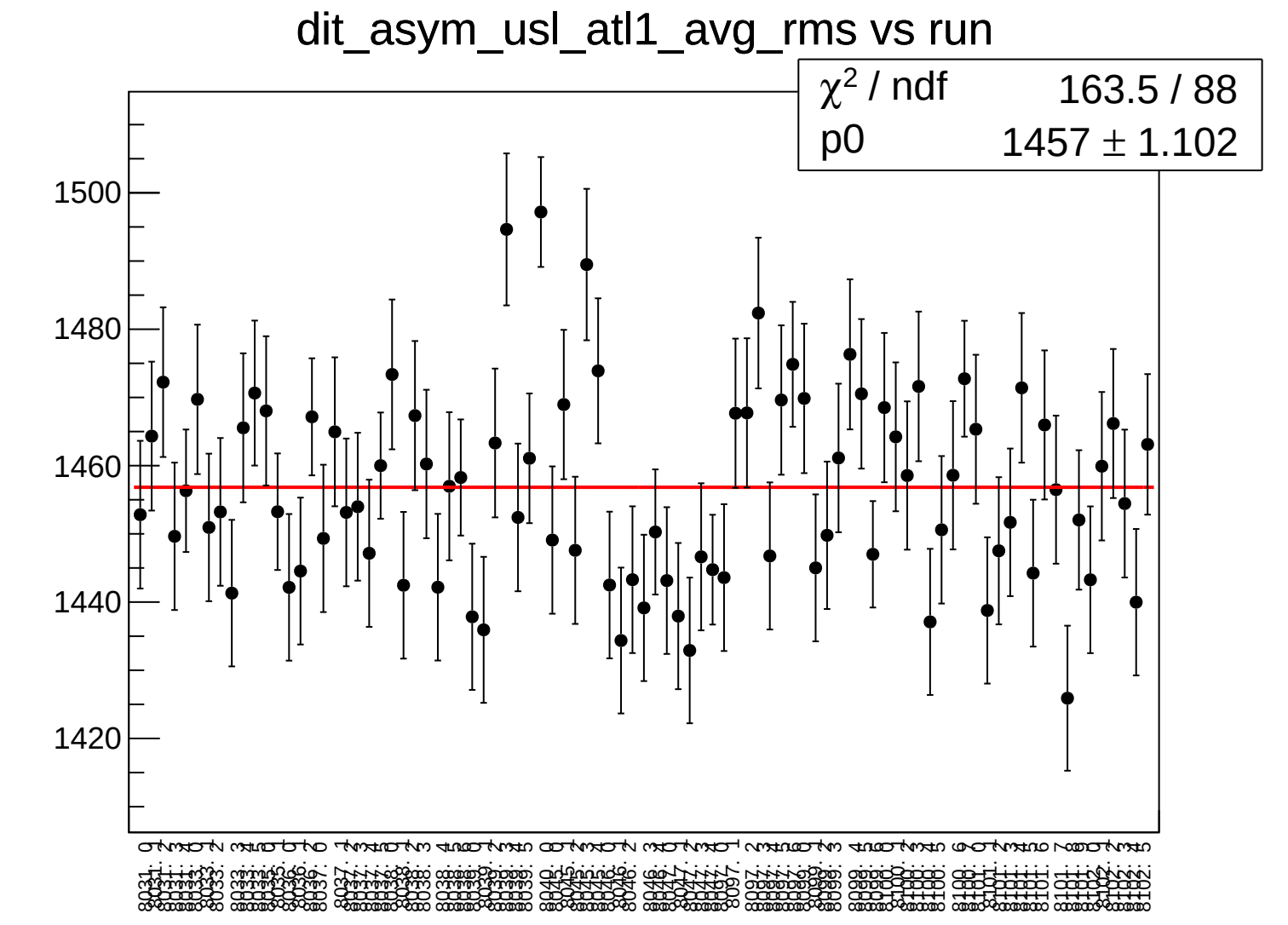

eigen_cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 140.3 / 88
p0 1454 ± 1.1
1500
1490
1480
1470
1460
1450
1440
1430
1420
1410

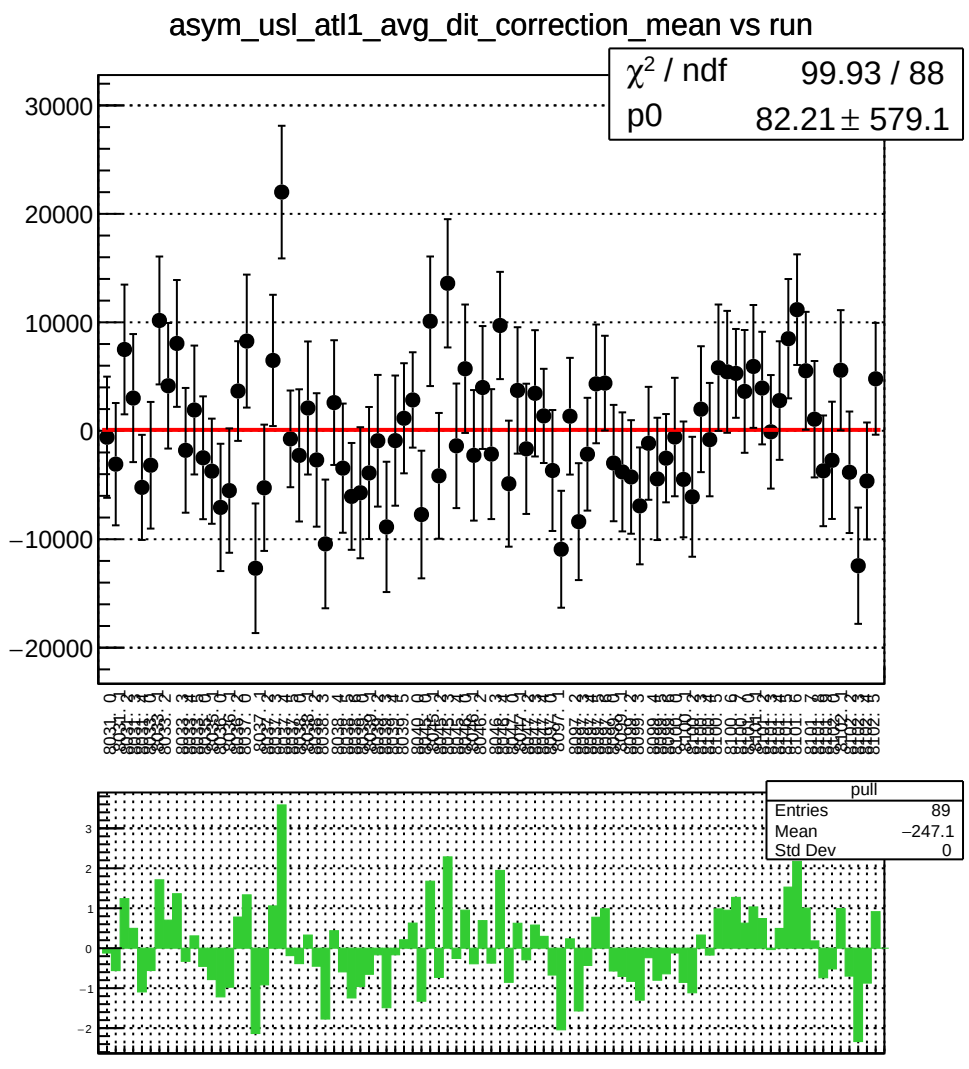

asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 99.24 / 88
p0 120.9 ± 552.9
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 1.625
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.01406
Std Dev 1.056
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

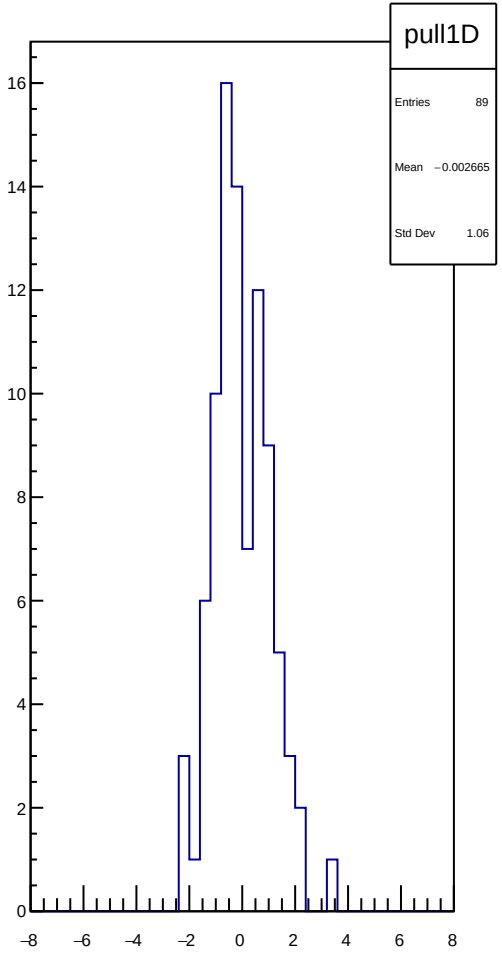

asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 6.343e+04 / 88
p0 507.3 ± 0.3909
800
700
600
500
400

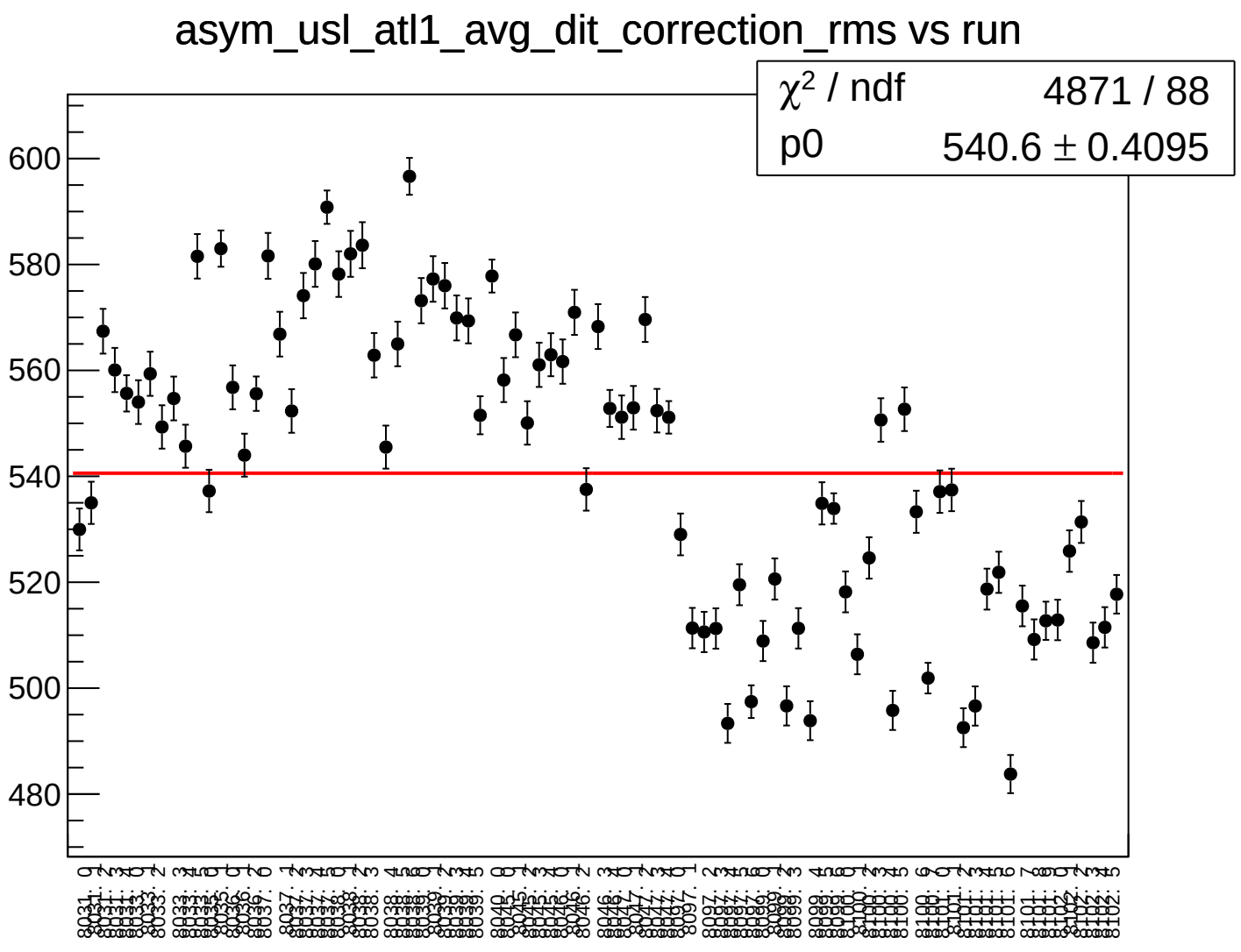

dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 88.09 / 88
p0 3981 ± 1559
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −1.118
Std Dev 0
3
2
1
0
−1
−2

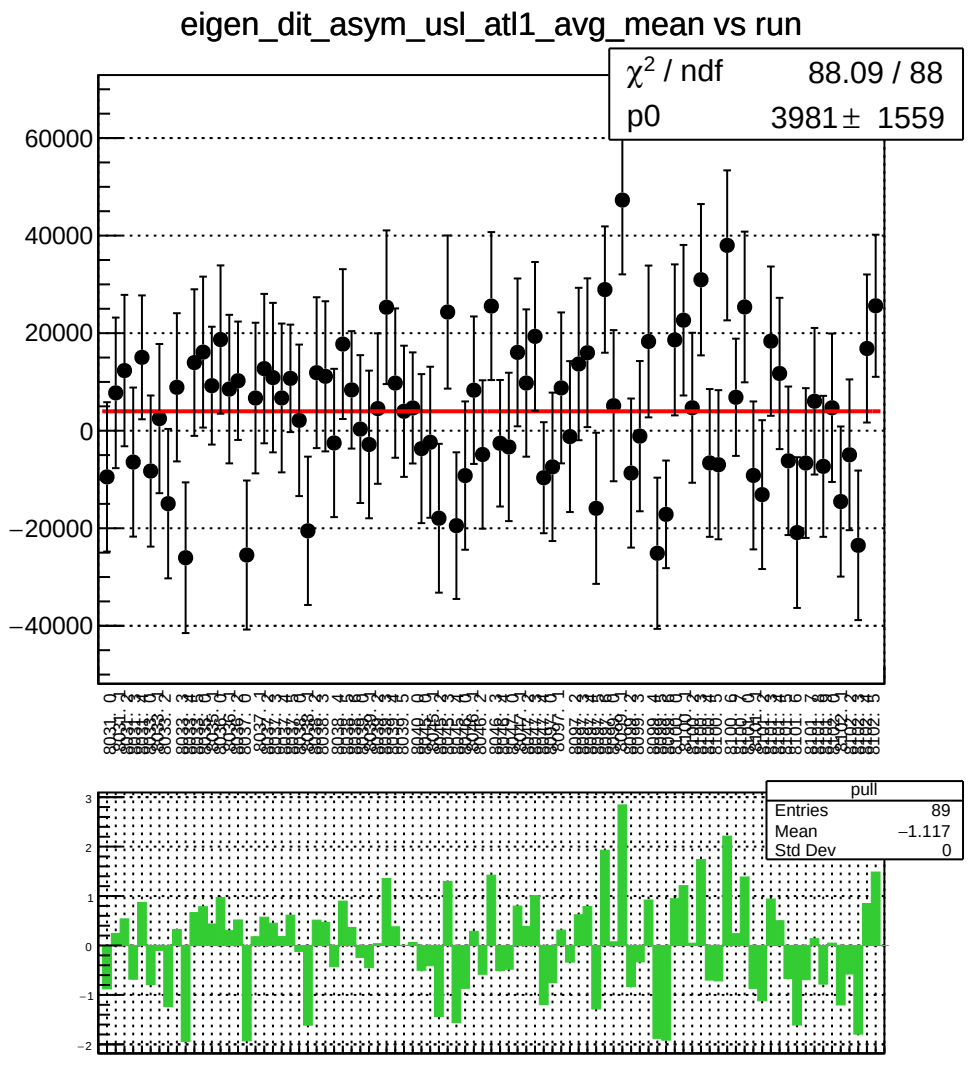

pull1D
Entries 89
Mean 0.001403
Std Dev 0.9948
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

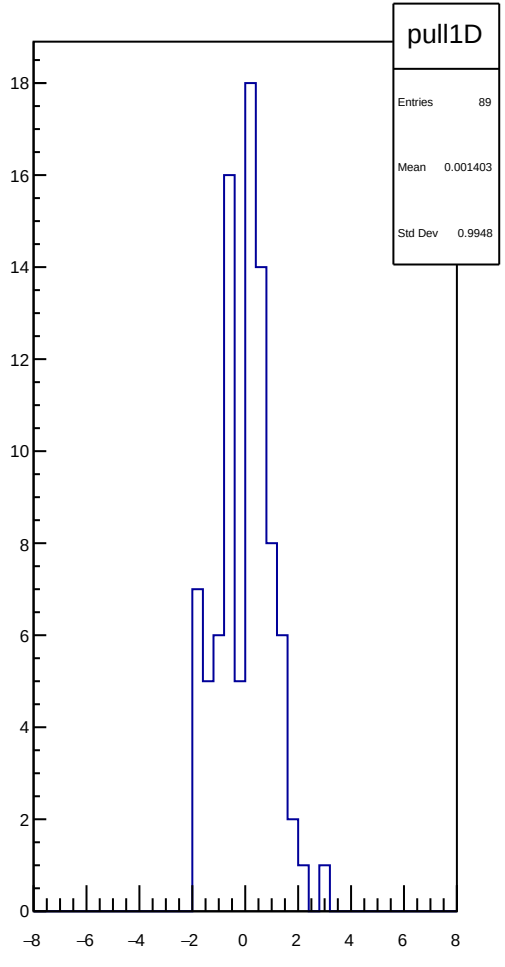

dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 163.5 / 88
p0 1457 ± 1.102
1500
1480
1460
1440
1420

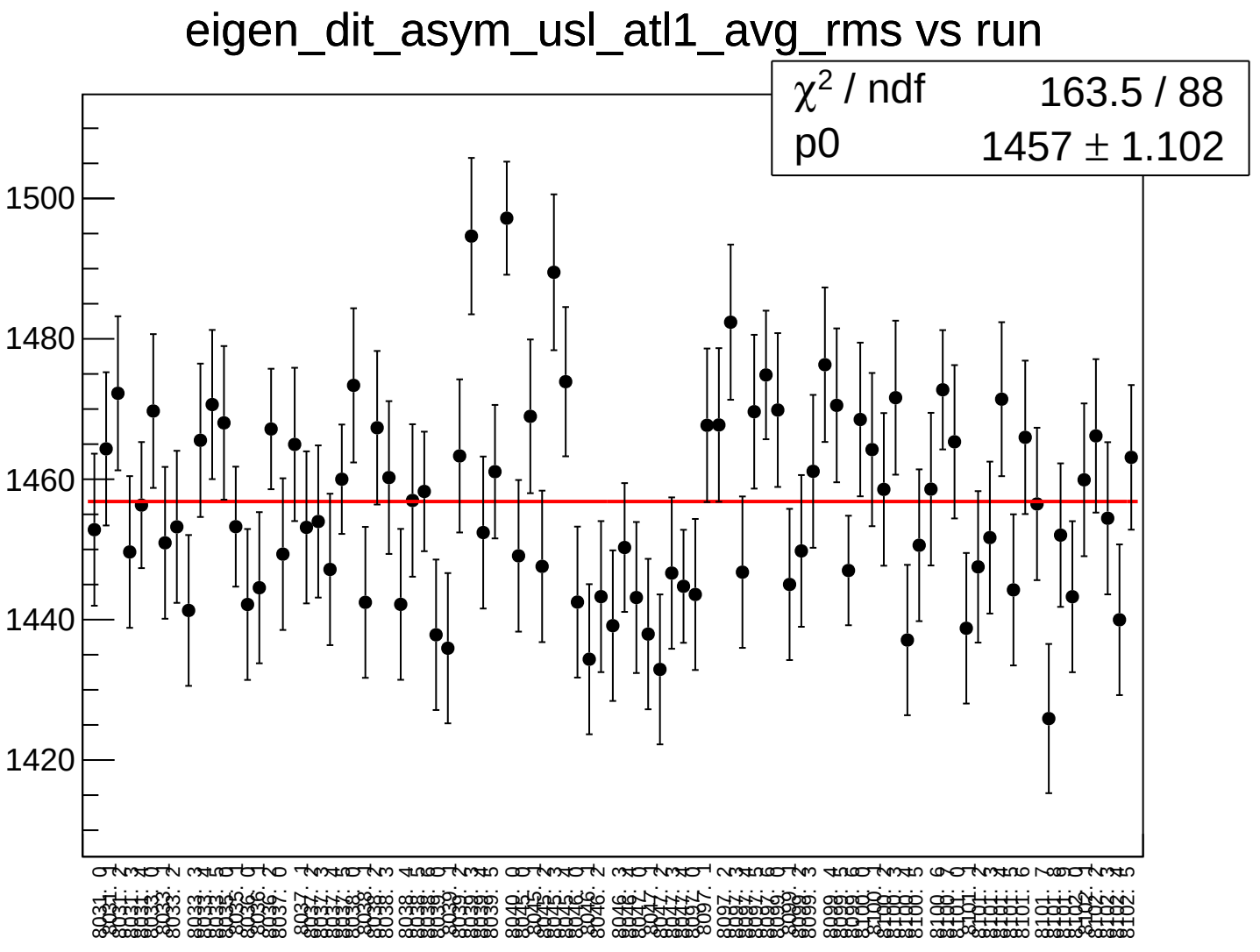

asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 99.93 / 88
p0 82.21 ± 579.1
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −247.1
Std Dev 0
3
2
1
0
−1
−2

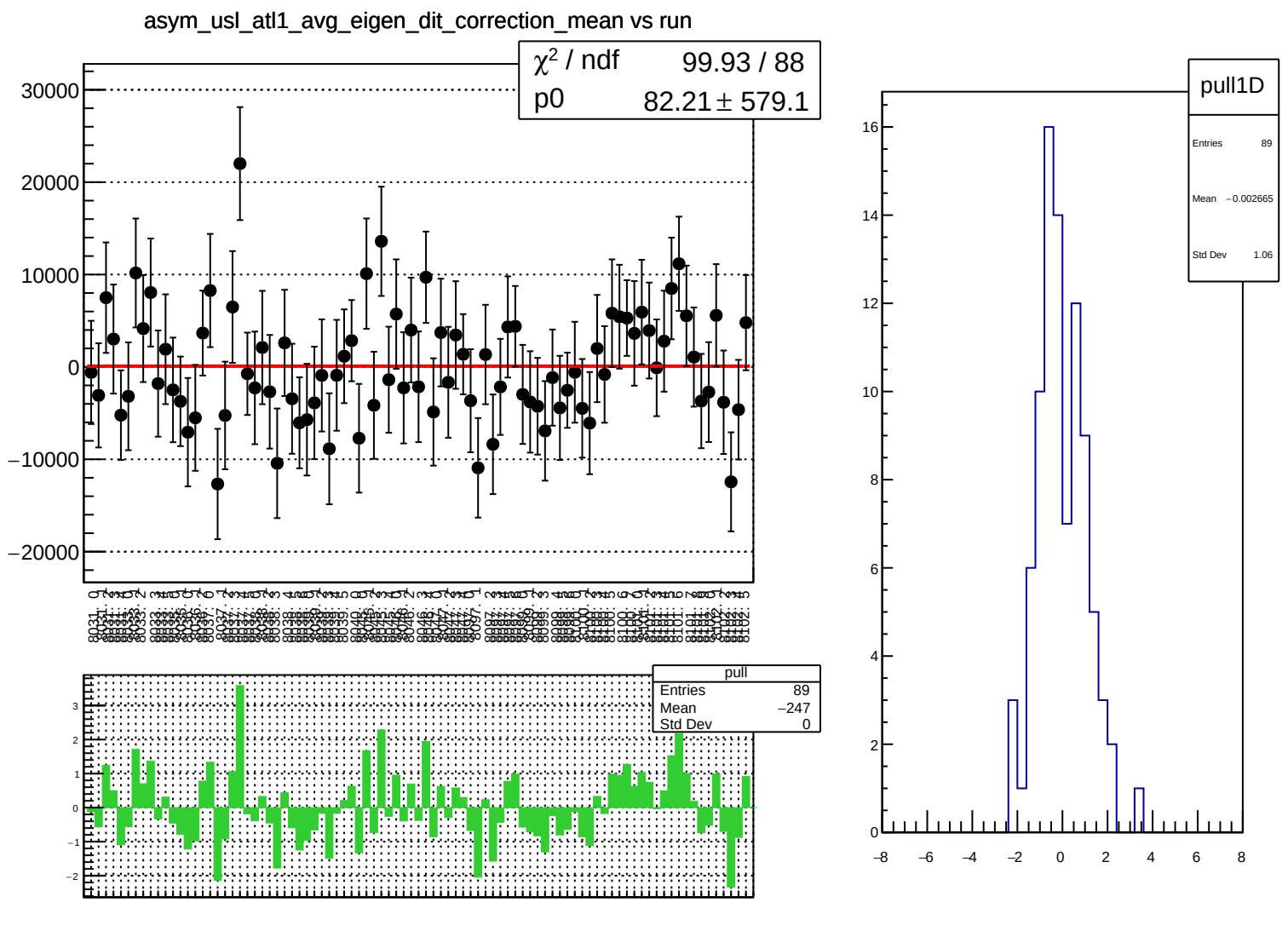

pull1D
Entries 89
Mean −0.002665
Std Dev 1.06
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

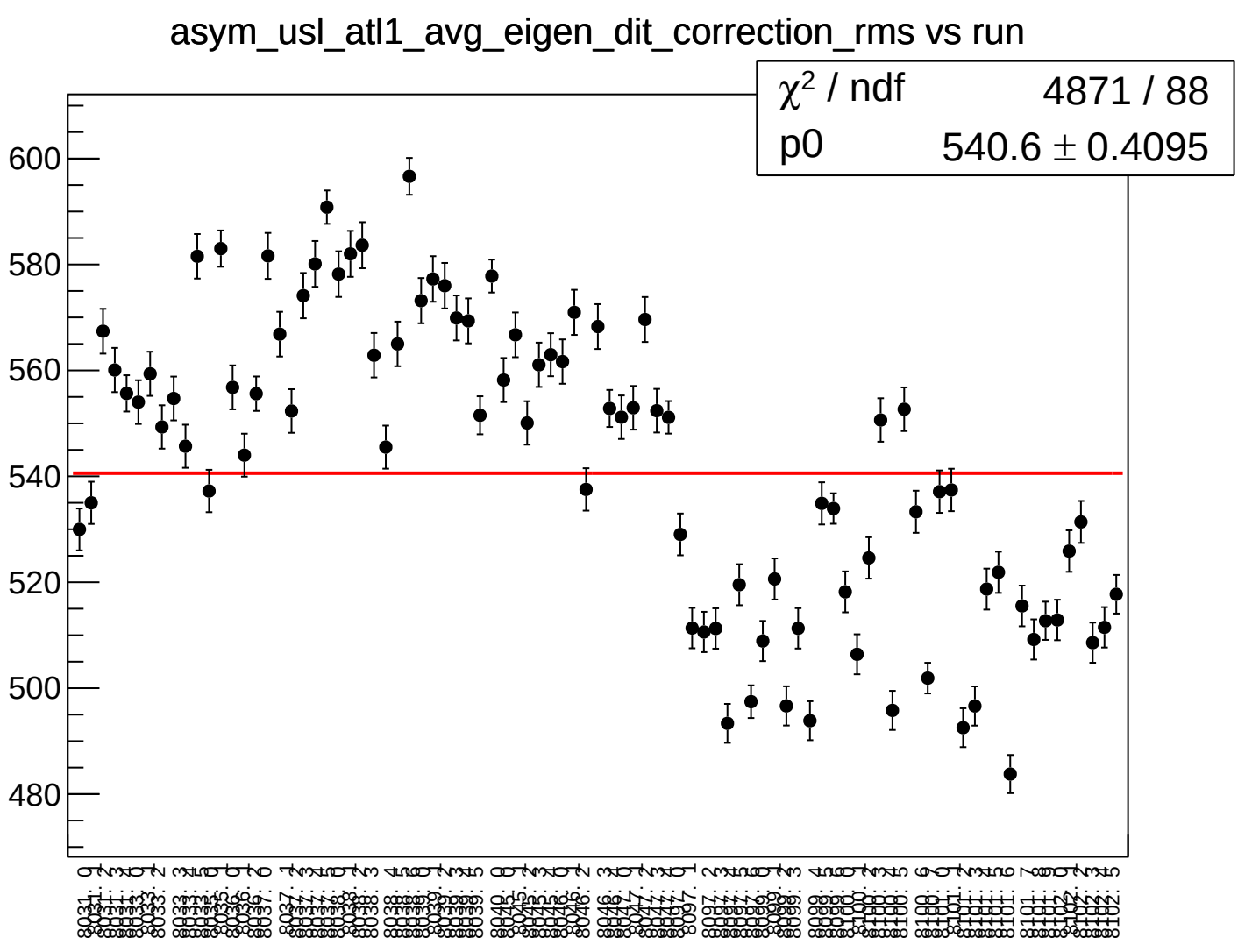

asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 4871 / 88
p0 540.6 ± 0.4095
600
580
560
540
520
500
480

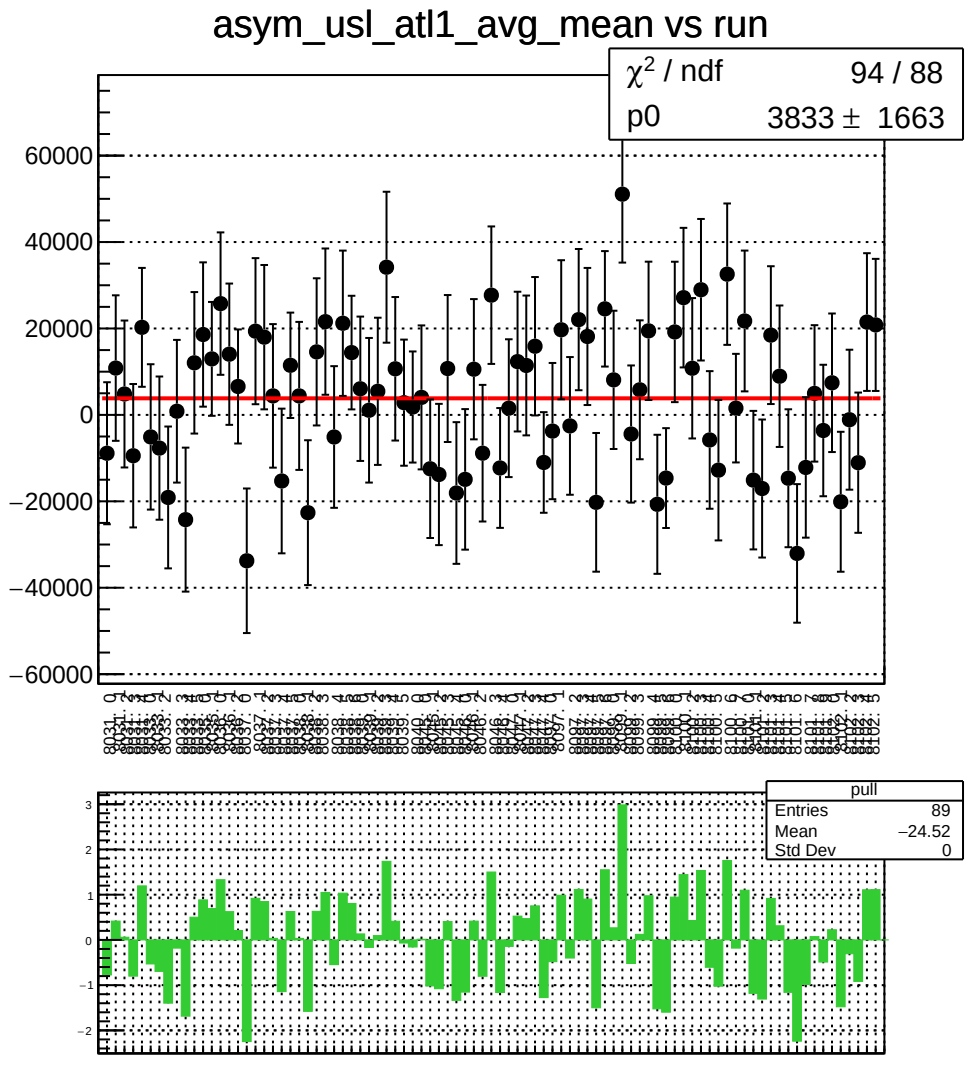

eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 88.09 / 88
p0 3981 ± 1559
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −1.117
Std Dev 0
3
2
1
0
−1
−2

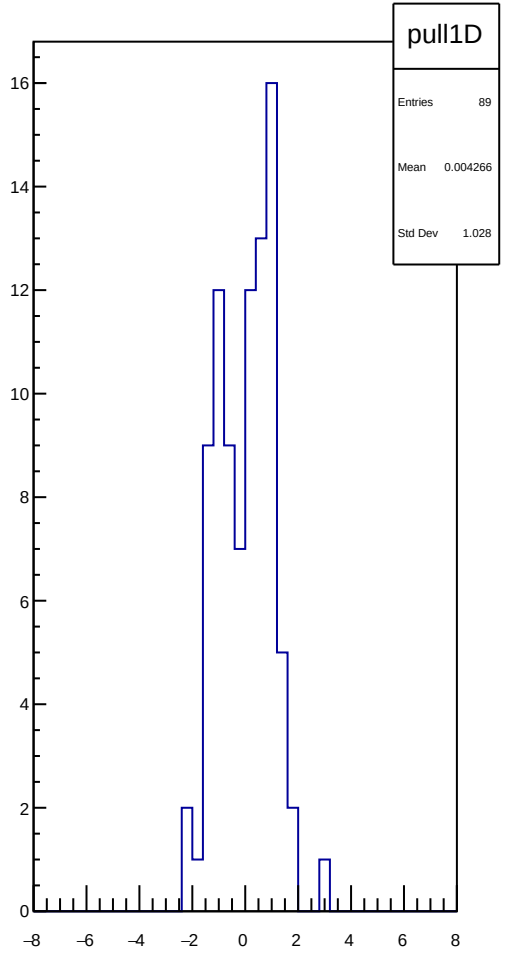

pull1D
Entries 89
Mean 0.001403
Std Dev 0.9948
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

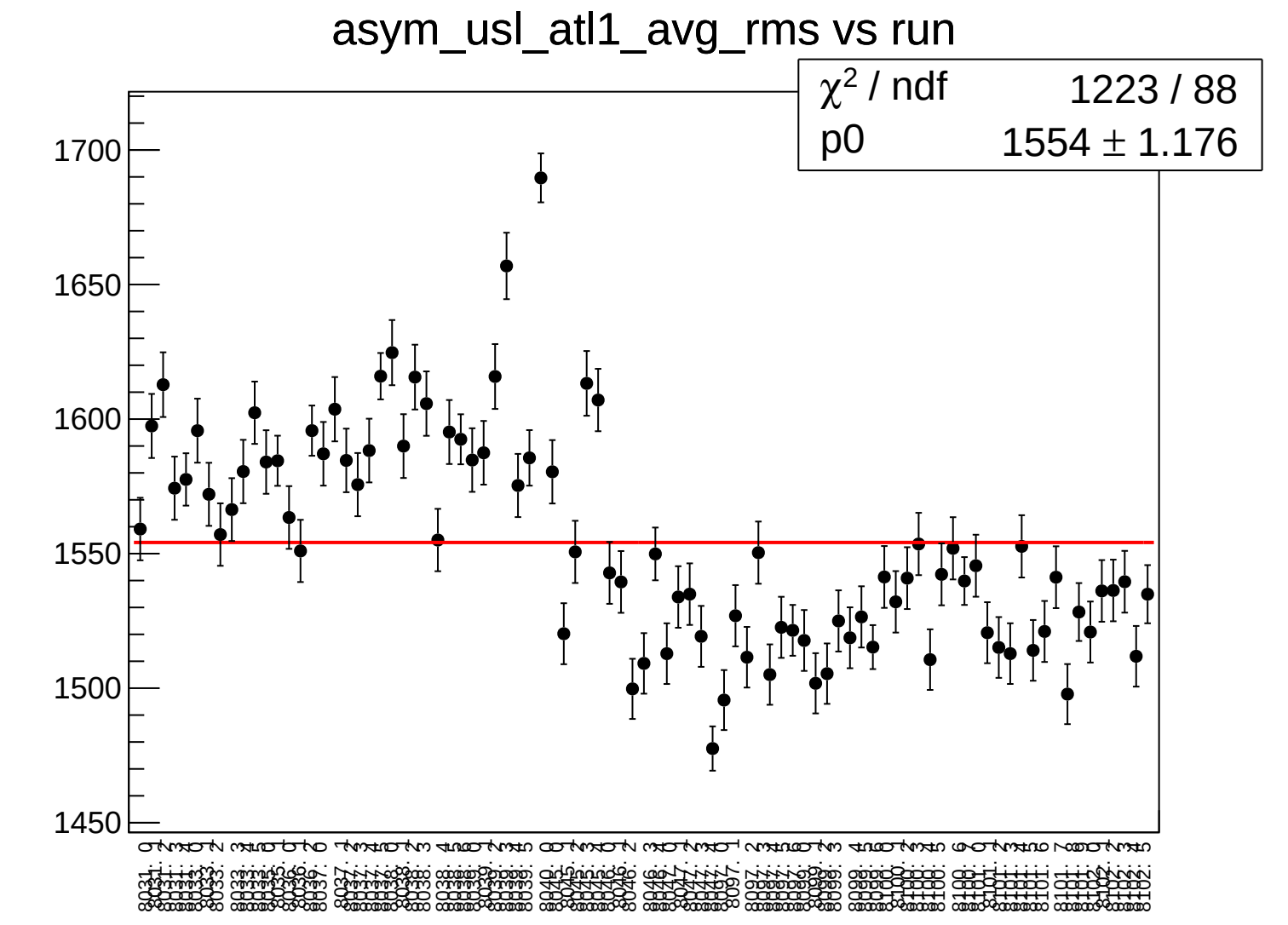

eigen_dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 163.5 / 88
p0 1457 ± 1.102
1500
1480
1460
1440
1420

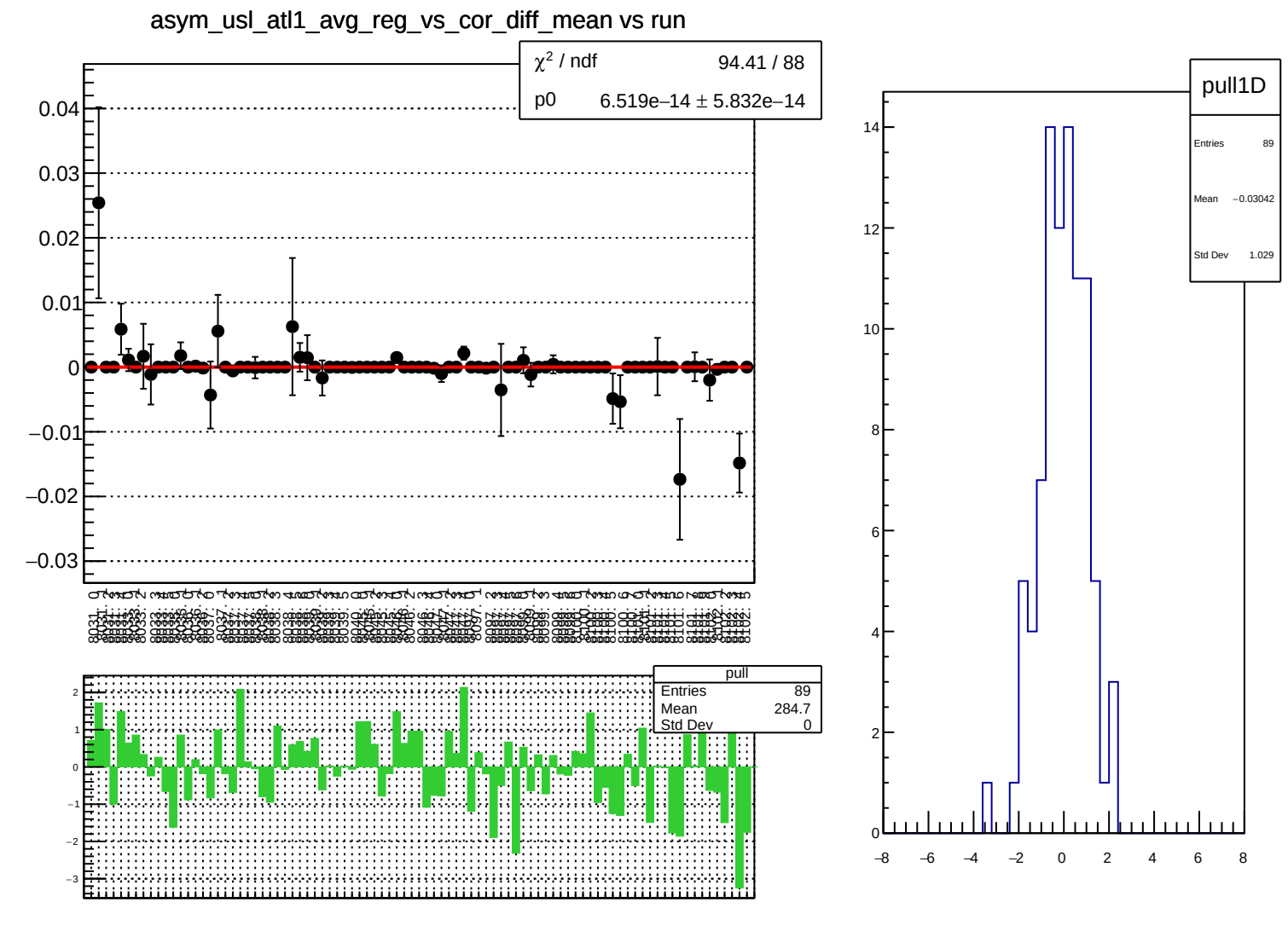

asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 99.93 / 88
p0 82.21 ± 579.1
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −247
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.002665
Std Dev 1.06
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

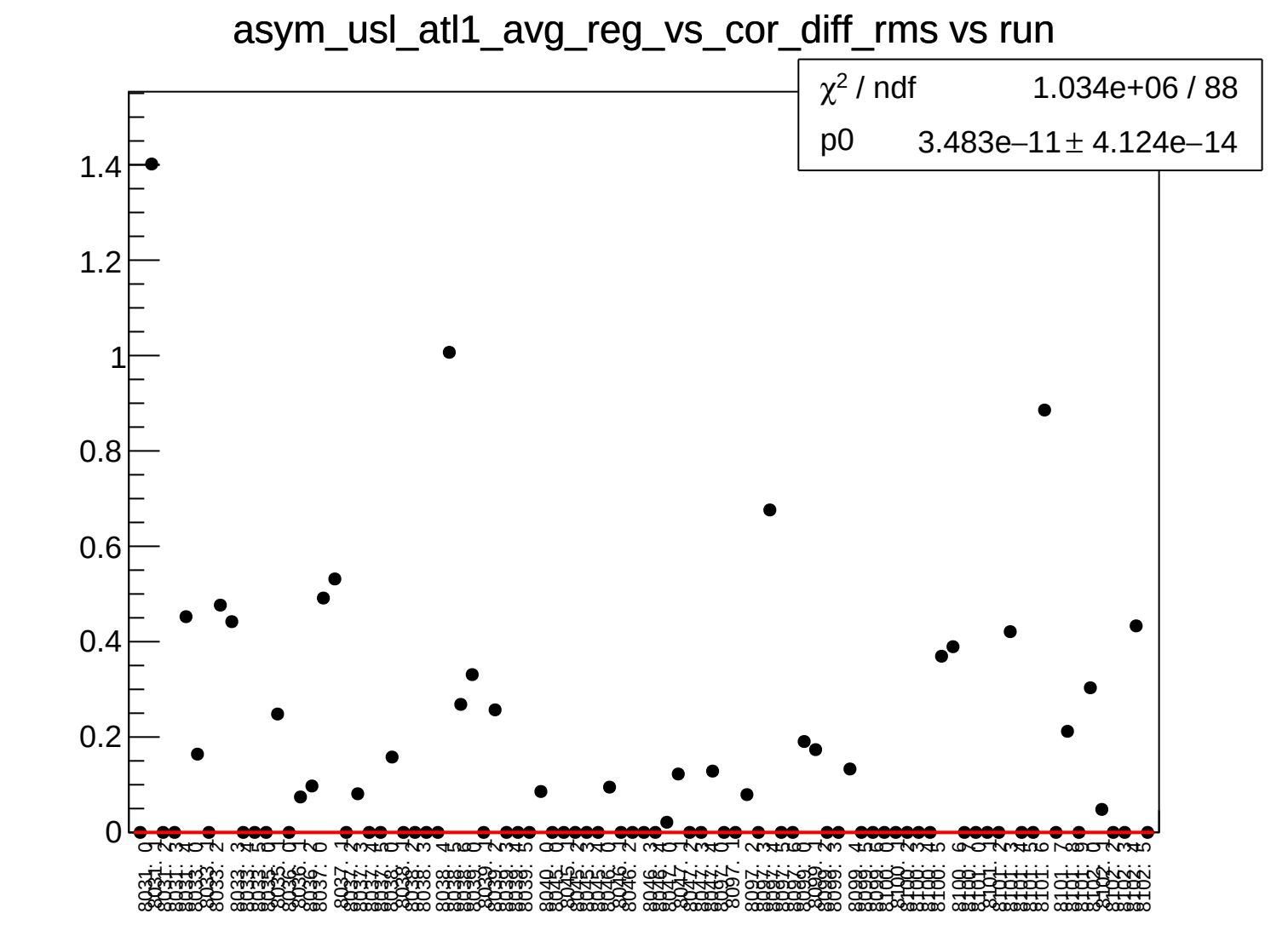

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 4871 / 88
p0 540.6 ± 0.4095
600
580
560
540
520
500
480

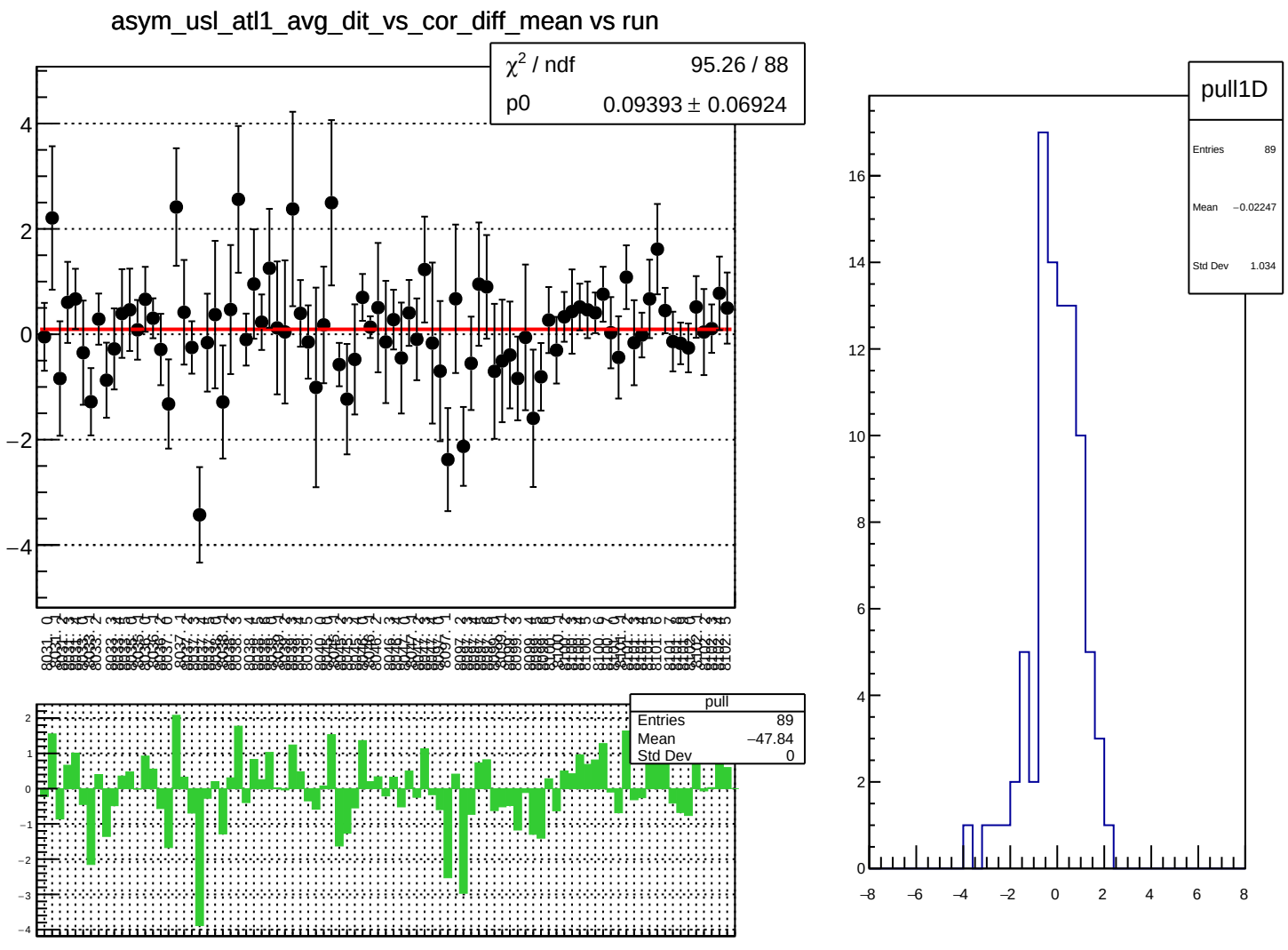

asym_usl_atl1_avg_mean vs run
χ² / ndf 94 / 88
p0 3833 ± 1663
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −24.52
Std Dev 0
3
2
1
0
−1
−2

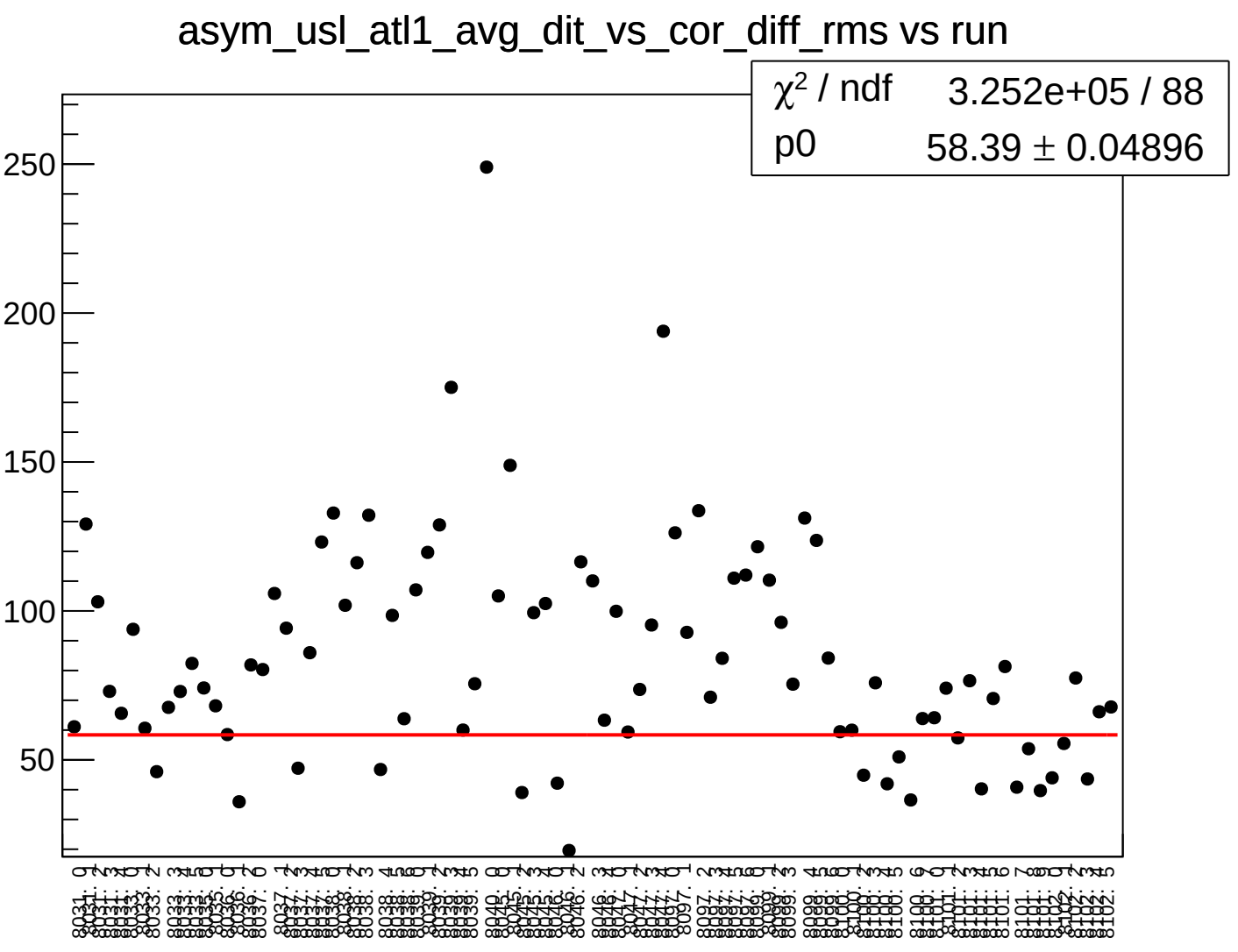

pull1D
Entries 89
Mean 0.004266
Std Dev 1.028
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

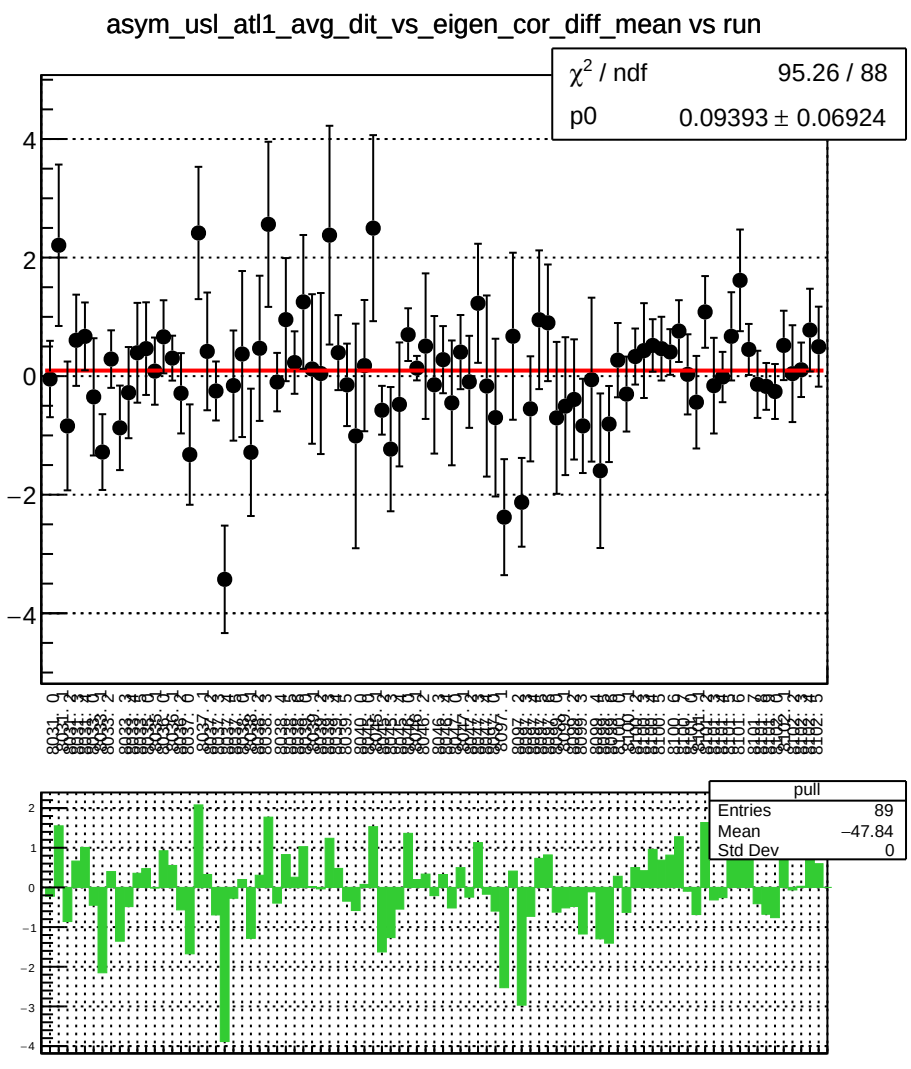

asym_usl_atl1_avg_rms vs run
χ² / ndf 1223 / 88
p0 1554 ± 1.176
1700
1650
1600
1550
1500
1450

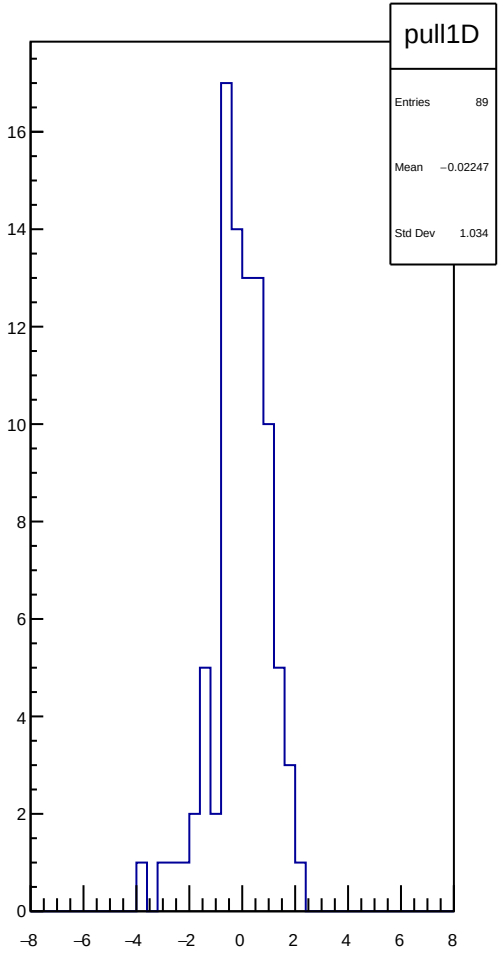

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 94.41 / 88
p0 6.519e−14 ± 5.832e−14
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 89
Mean 284.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.03042
Std Dev 1.029
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

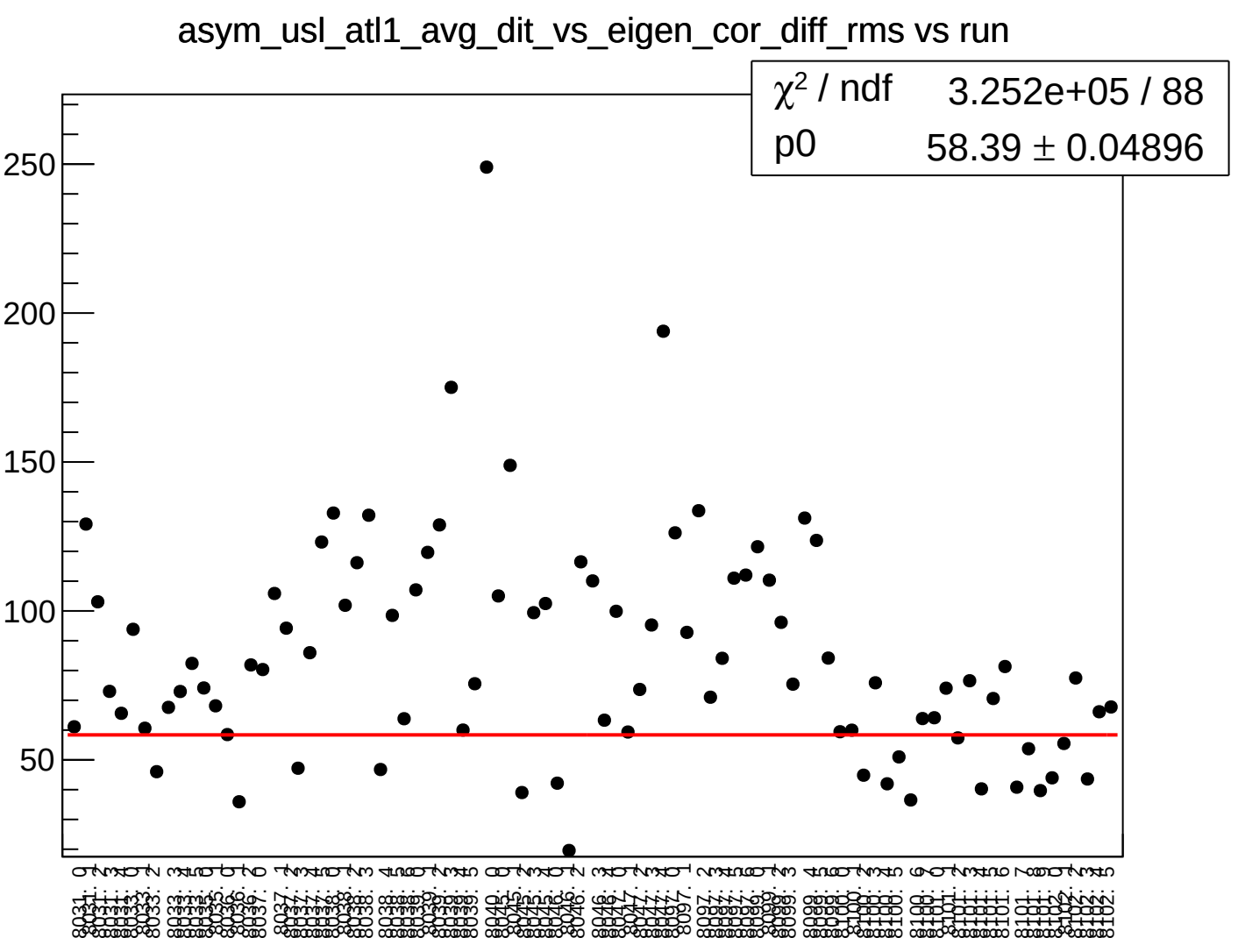

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.034e+06 / 88
p0 3.483e−11 ± 4.124e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

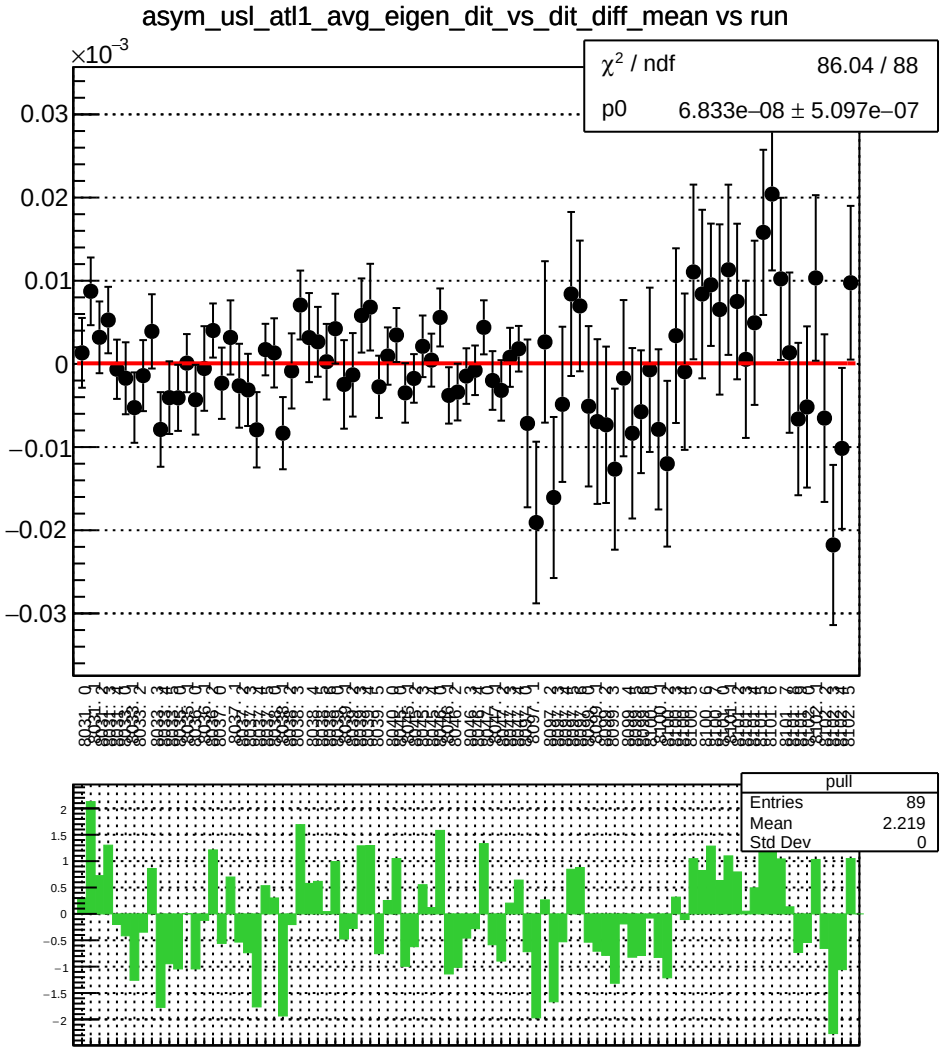

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 95.26 / 88
p0 0.09393 ± 0.06924
pull
Entries 89
Mean −47.84
Std Dev 0
pull1D
Entries 89
Mean −0.02247
Std Dev 1.034

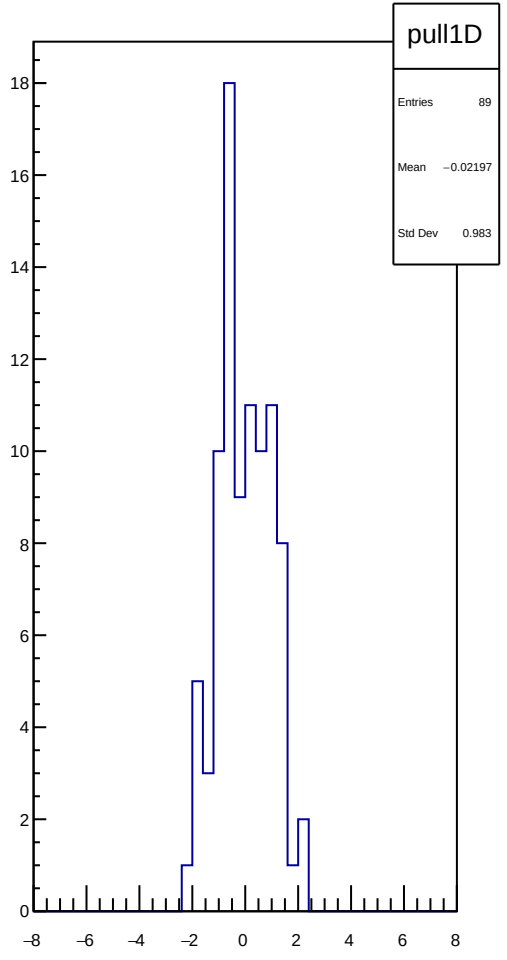

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.252e+05 / 88
p0 58.39 ± 0.04896
250
200
150
100
50

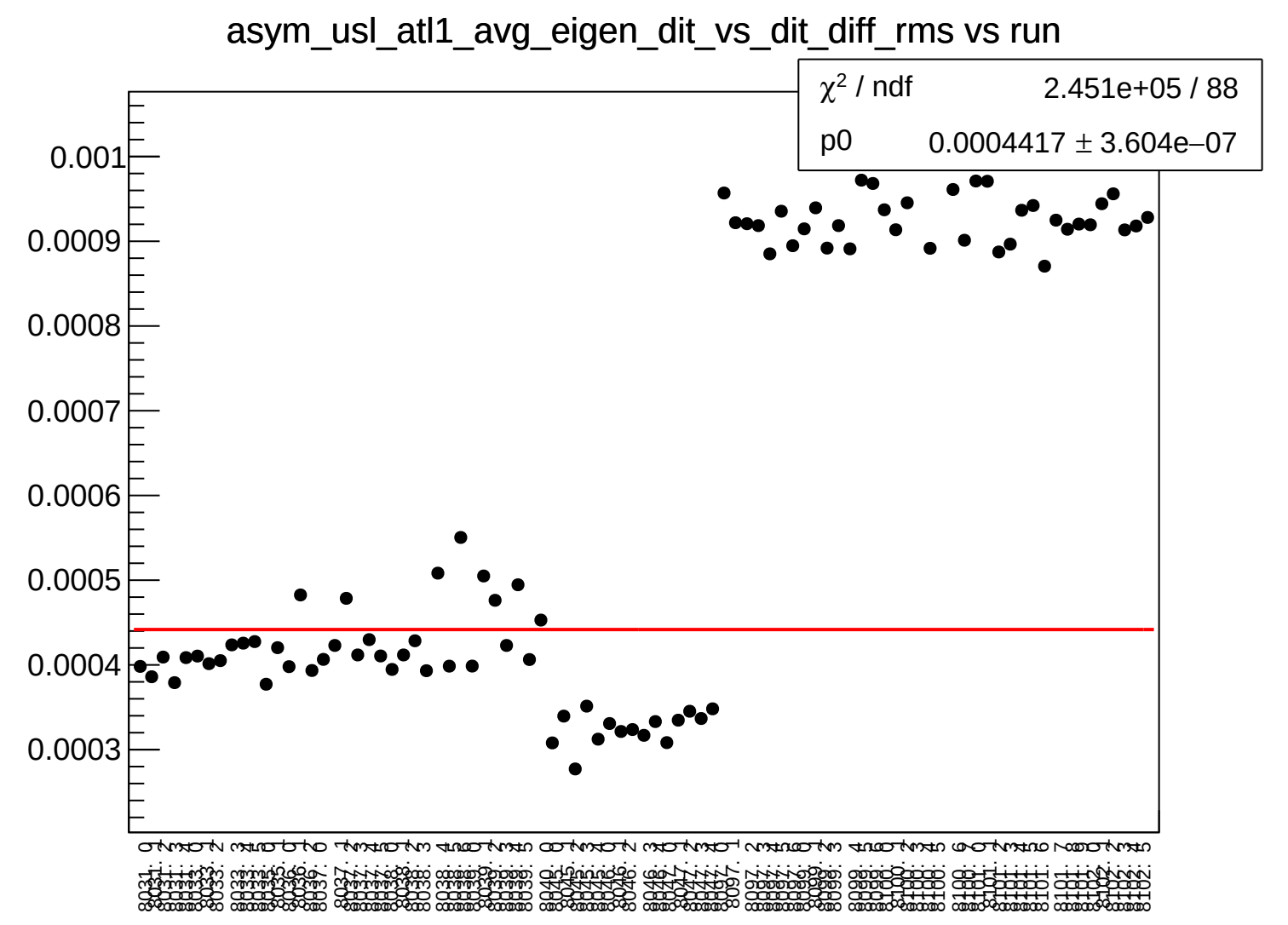

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.26 / 88
p0 0.09393 ± 0.06924
pull
Entries 89
Mean −47.84
Std Dev 0

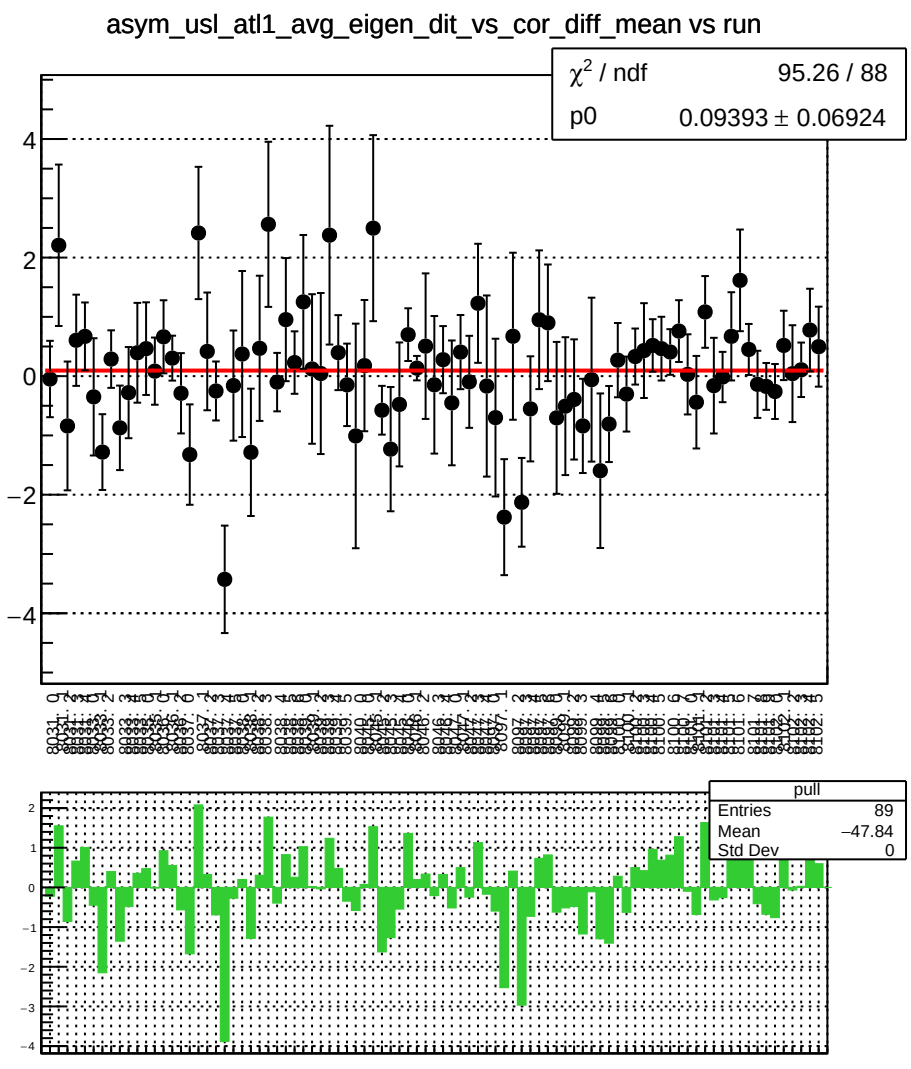

pull1D
Entries 89
Mean −0.02247
Std Dev 1.034

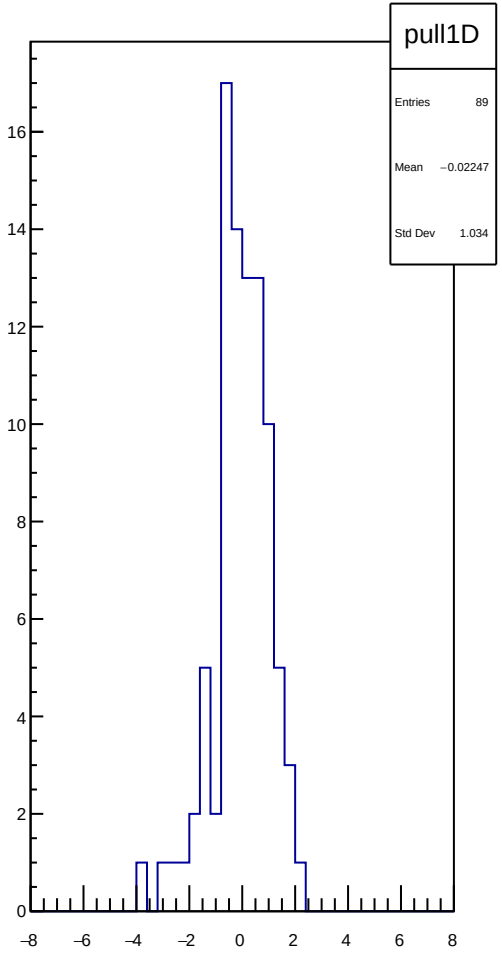

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.252e+05 / 88
p0 58.39 ± 0.04896
250
200
150
100
50

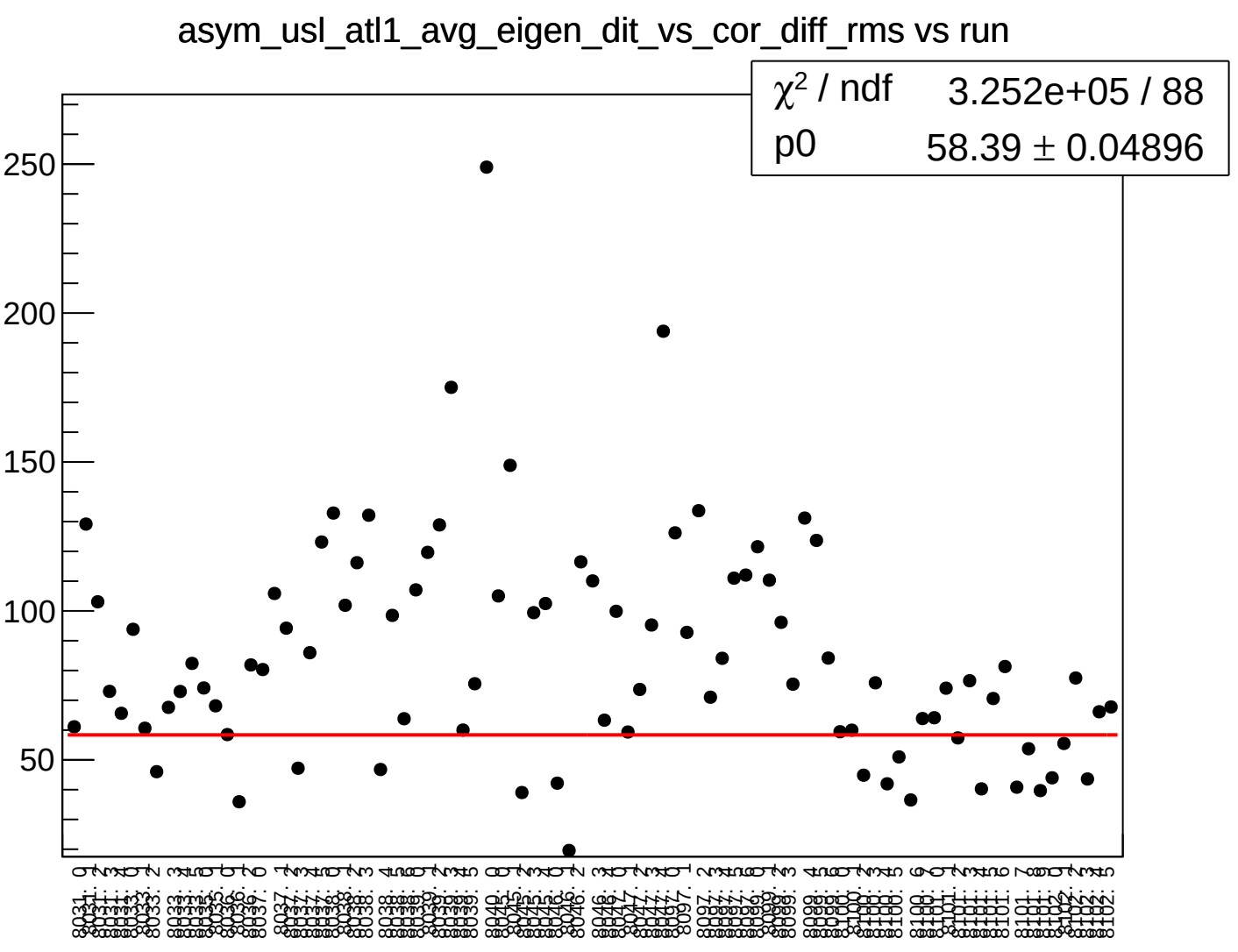

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.04 / 88
p0 6.833e−08 ± 5.097e−07
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 89
Mean 2.219
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

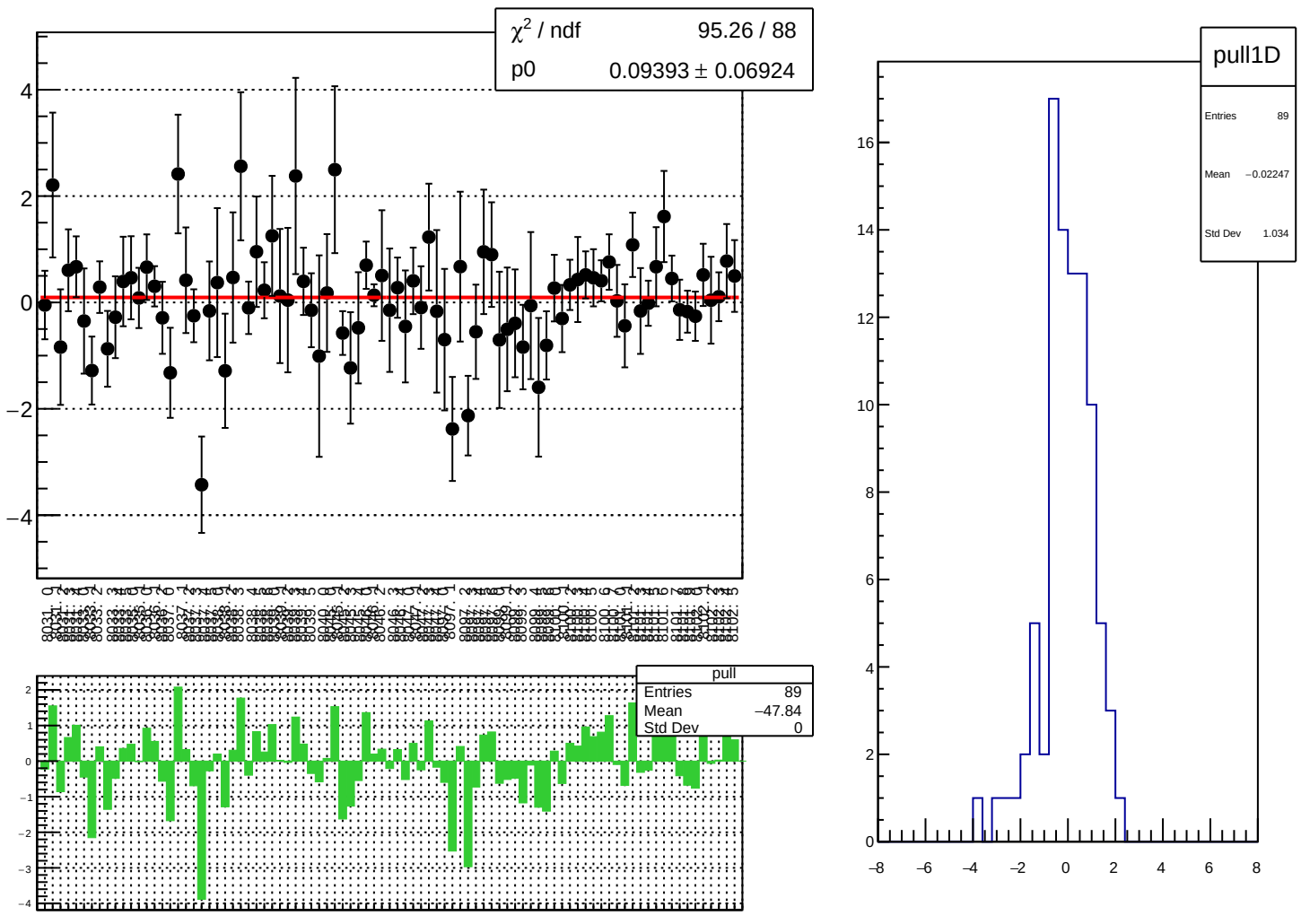

pull1D
Entries 89
Mean −0.02197
Std Dev 0.983
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

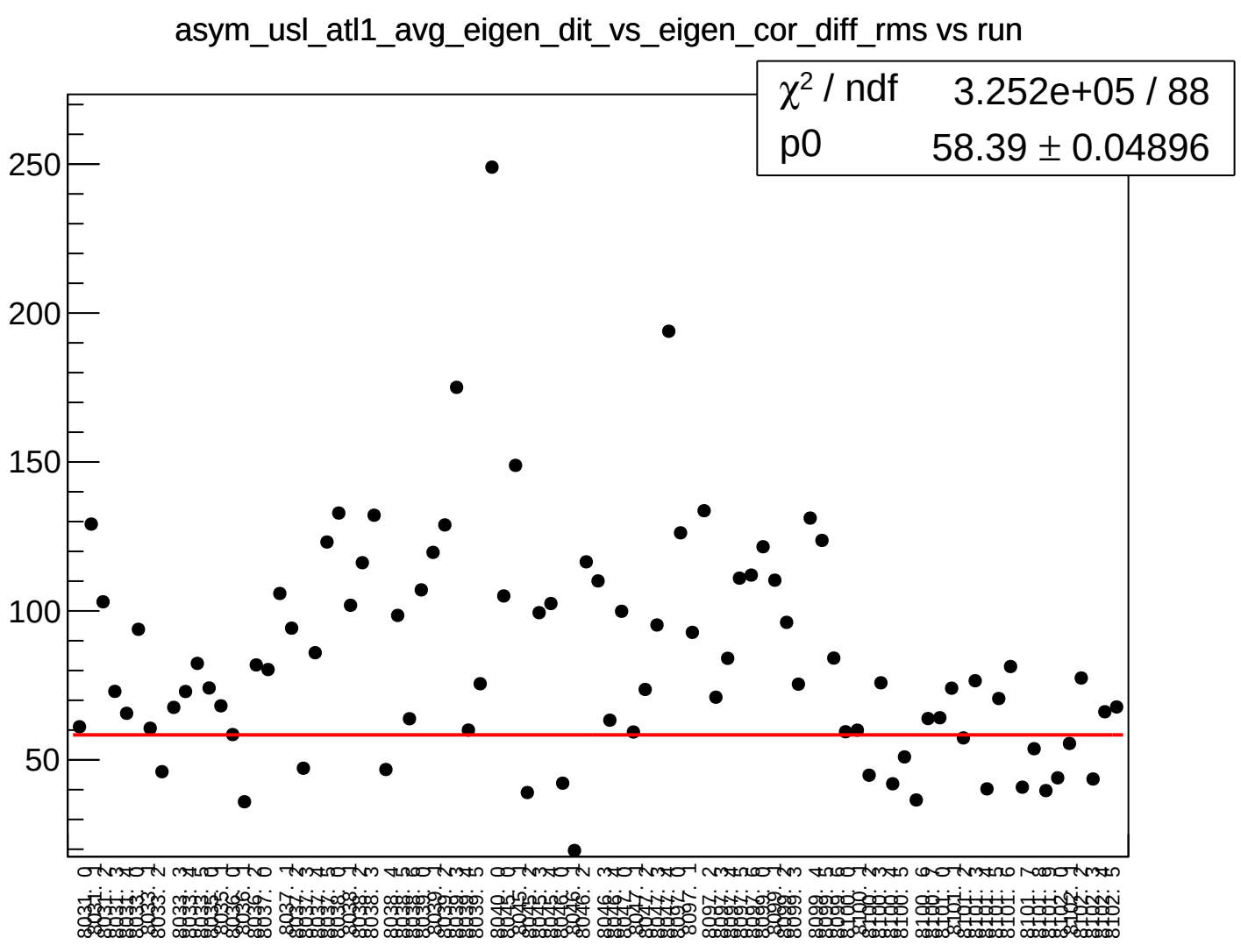

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.451e+05 / 88
p0 0.0004417 ± 3.604e−07
0.001
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003

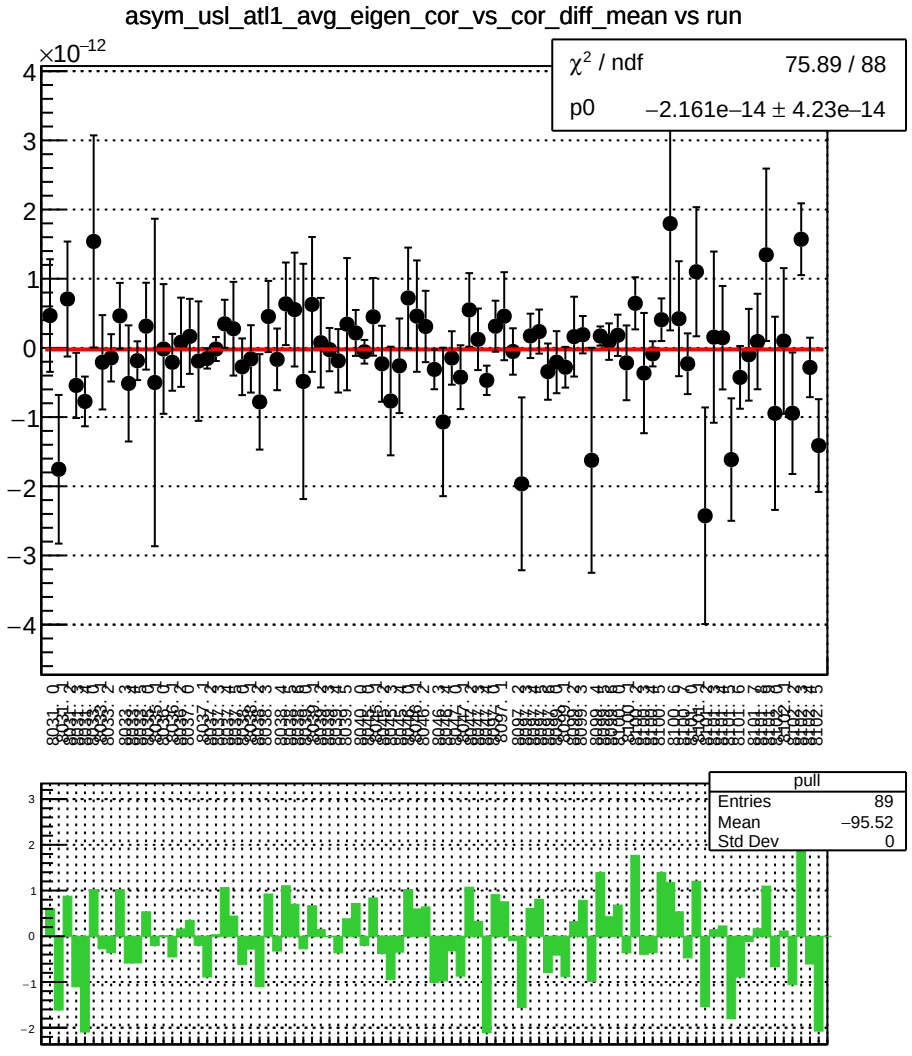

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.26 / 88
p0 0.09393 ± 0.06924
pull
Entries 89
Mean −47.84
Std Dev 0

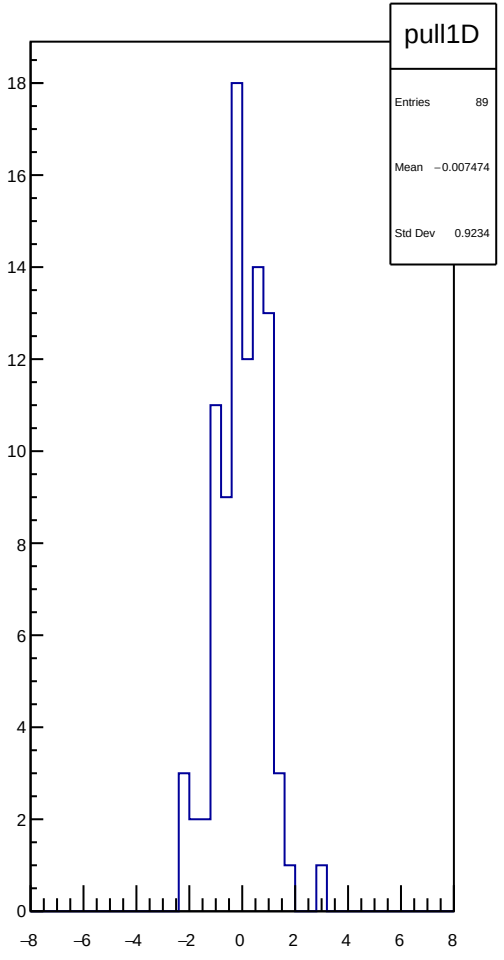

pull1D
Entries 89
Mean −0.02247
Std Dev 1.034

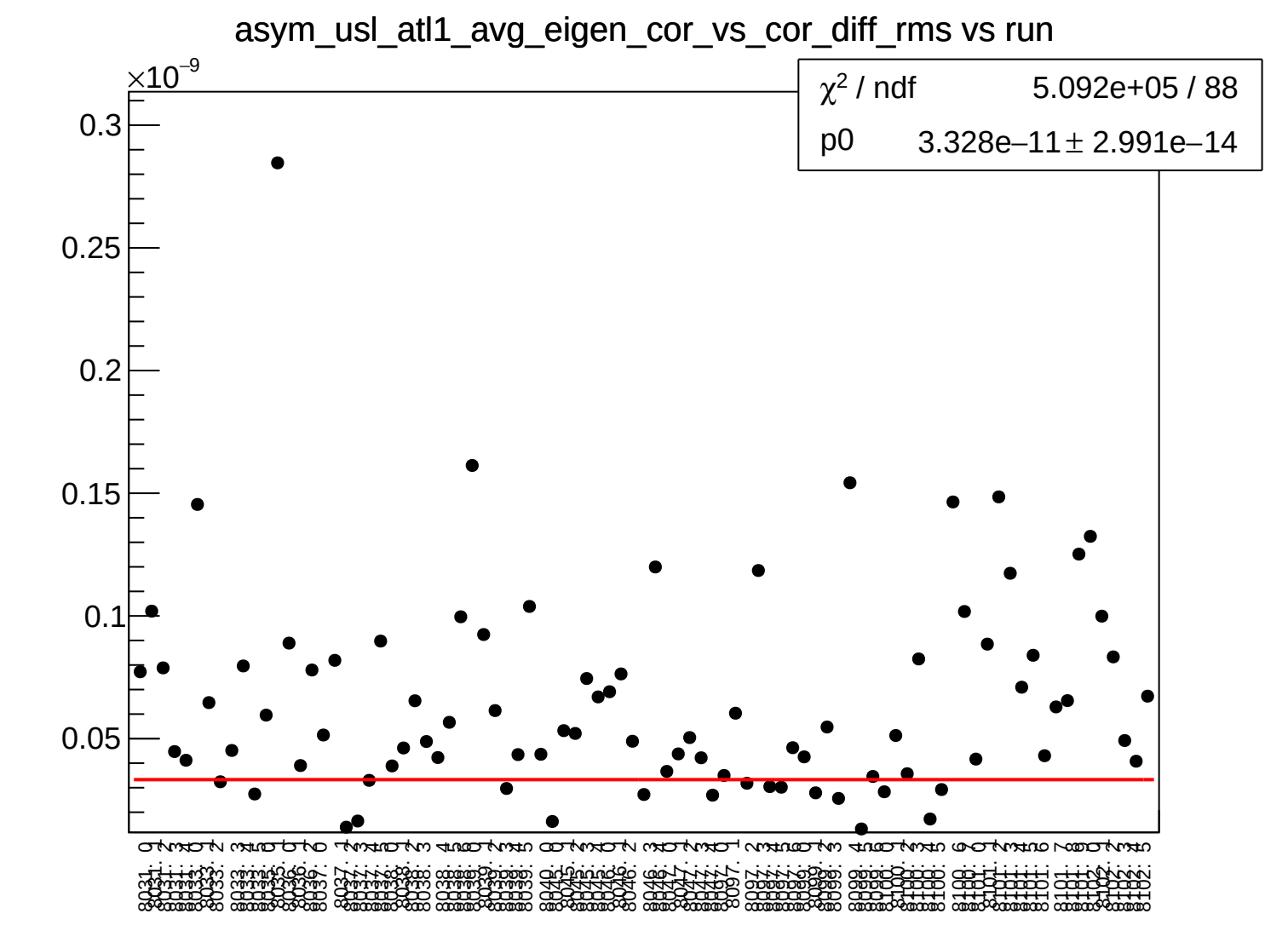

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.252e+05 / 88
p0 58.39 ± 0.04896
250
200
150
100
50

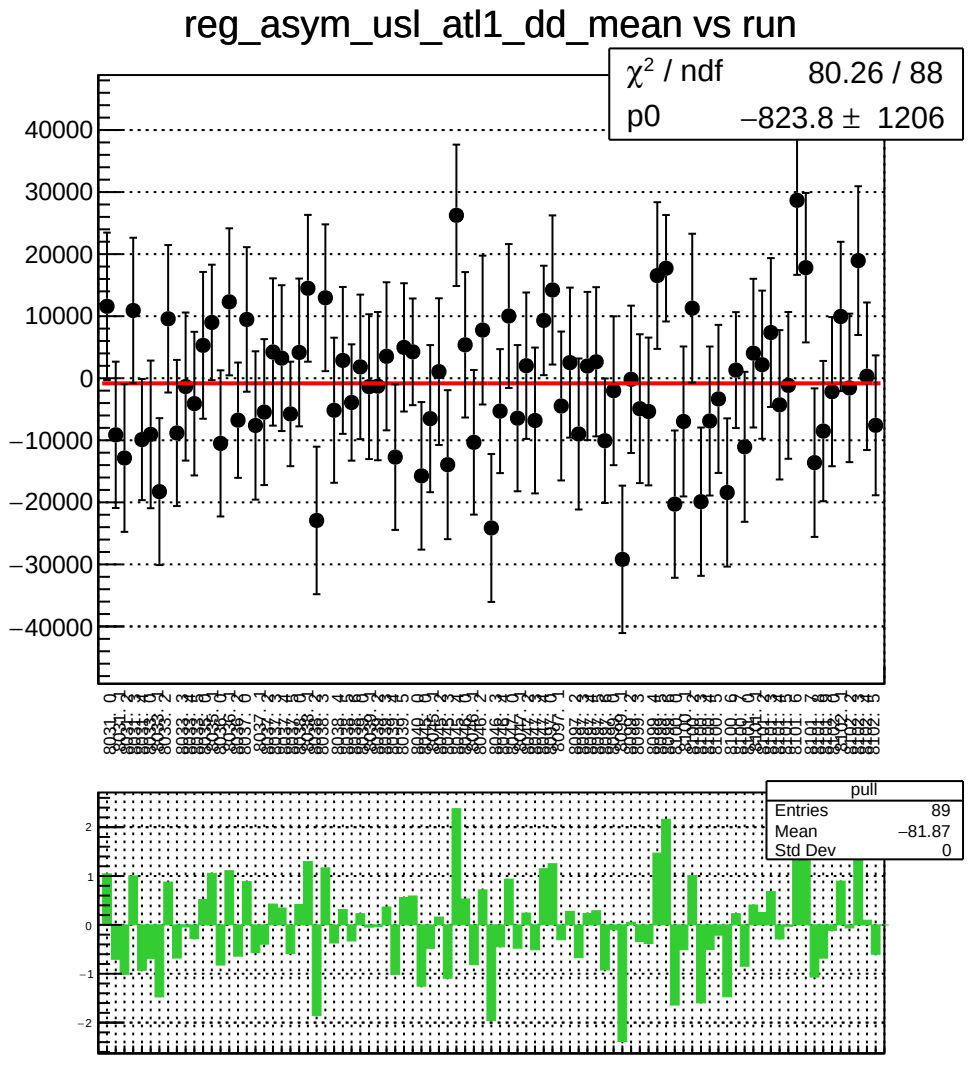

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.26 / 88
p0 0.09393 ± 0.06924
pull
Entries 89
Mean −47.84
Std Dev 0
pull1D
Entries 89
Mean −0.02247
Std Dev 1.034

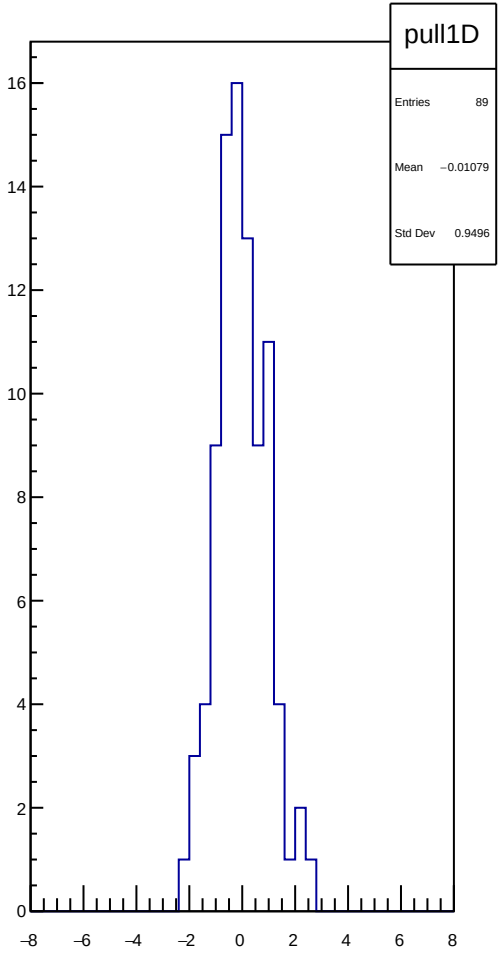

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.252e+05 / 88
p0 58.39 ± 0.04896
250
200
150
100
50

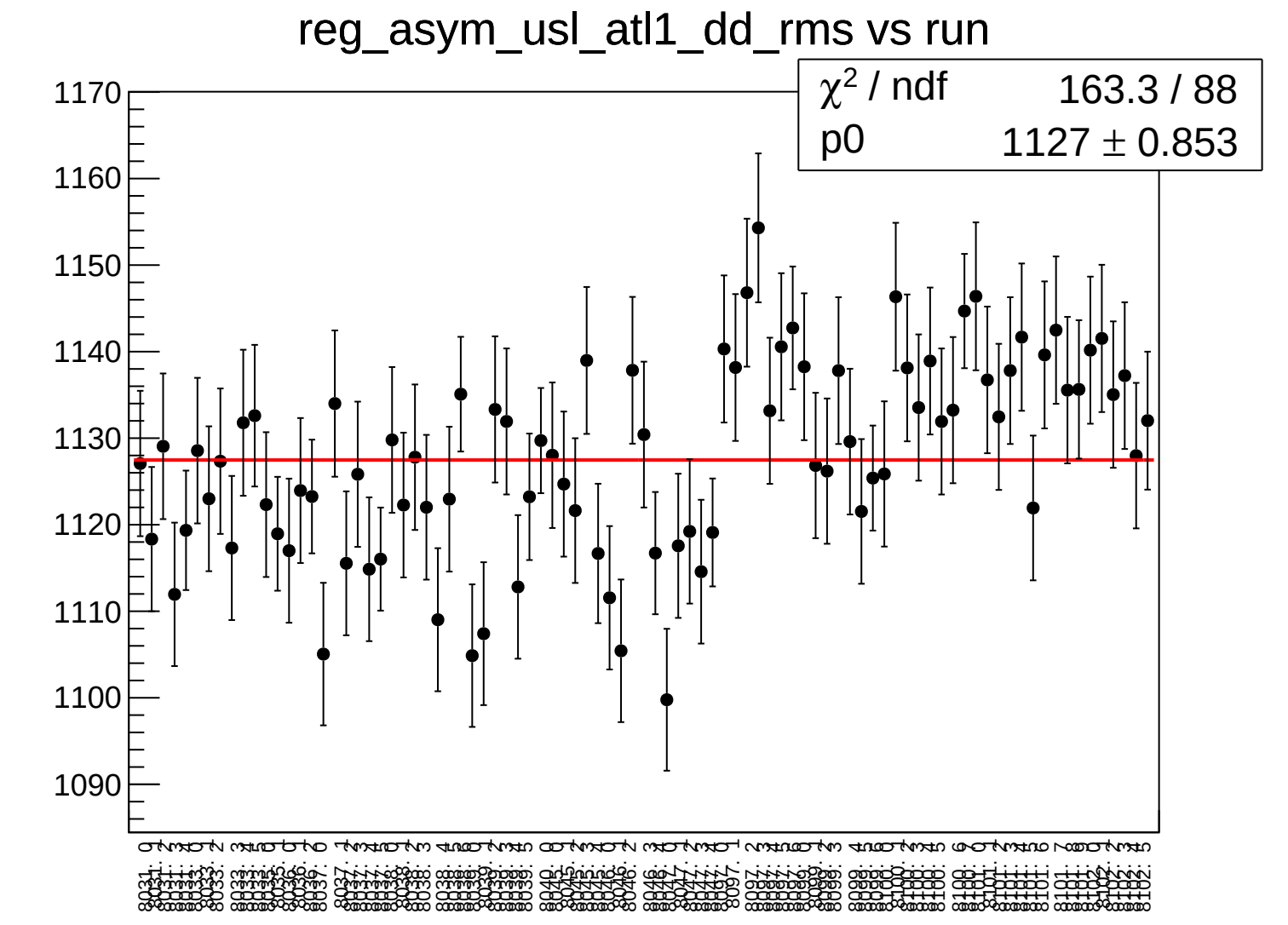

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.89 / 88
p0 −2.161e−14 ± 4.23e−14
pull
Entries 89
Mean −95.52
Std Dev 0

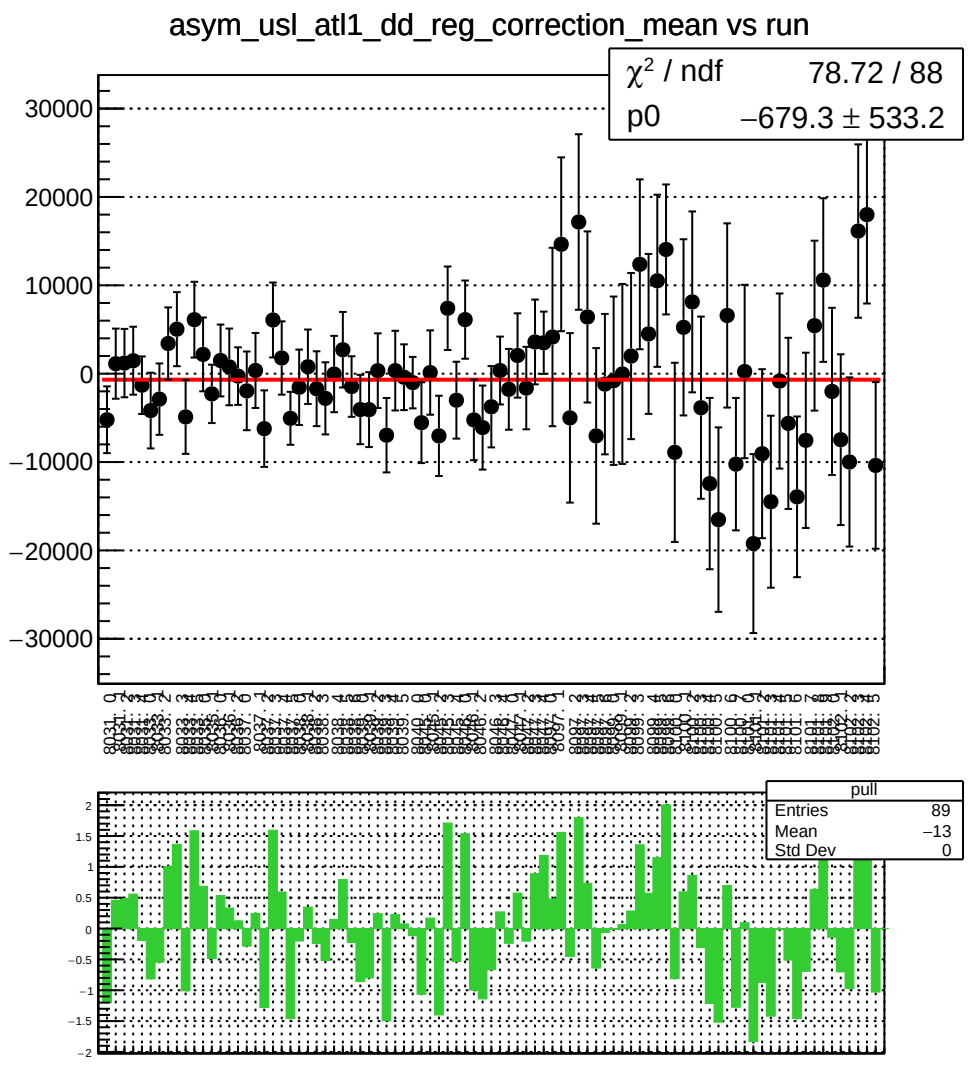

pull1D
Entries 89
Mean −0.007474
Std Dev 0.9234

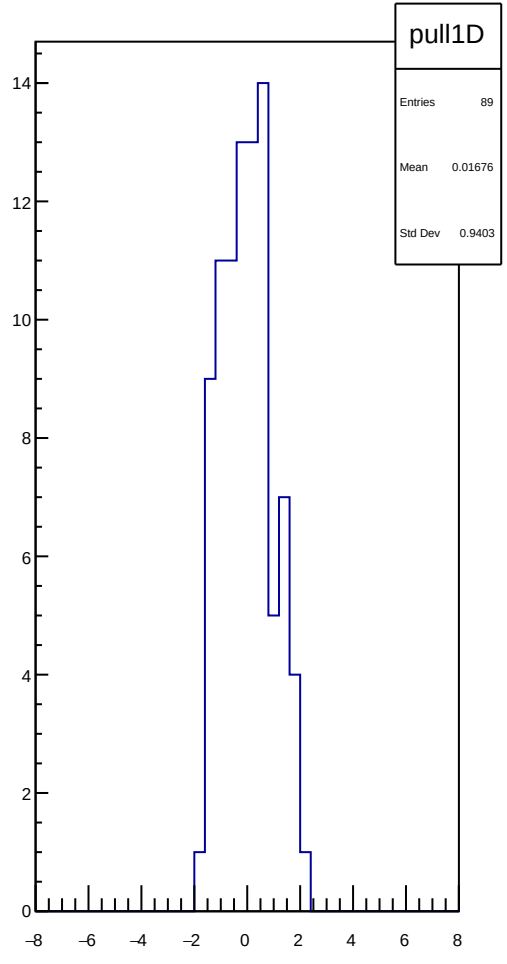

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.092e+05 / 88
p0 3.328e−11 ± 2.991e−14
0.3
0.25
0.2
0.15
0.1
0.05

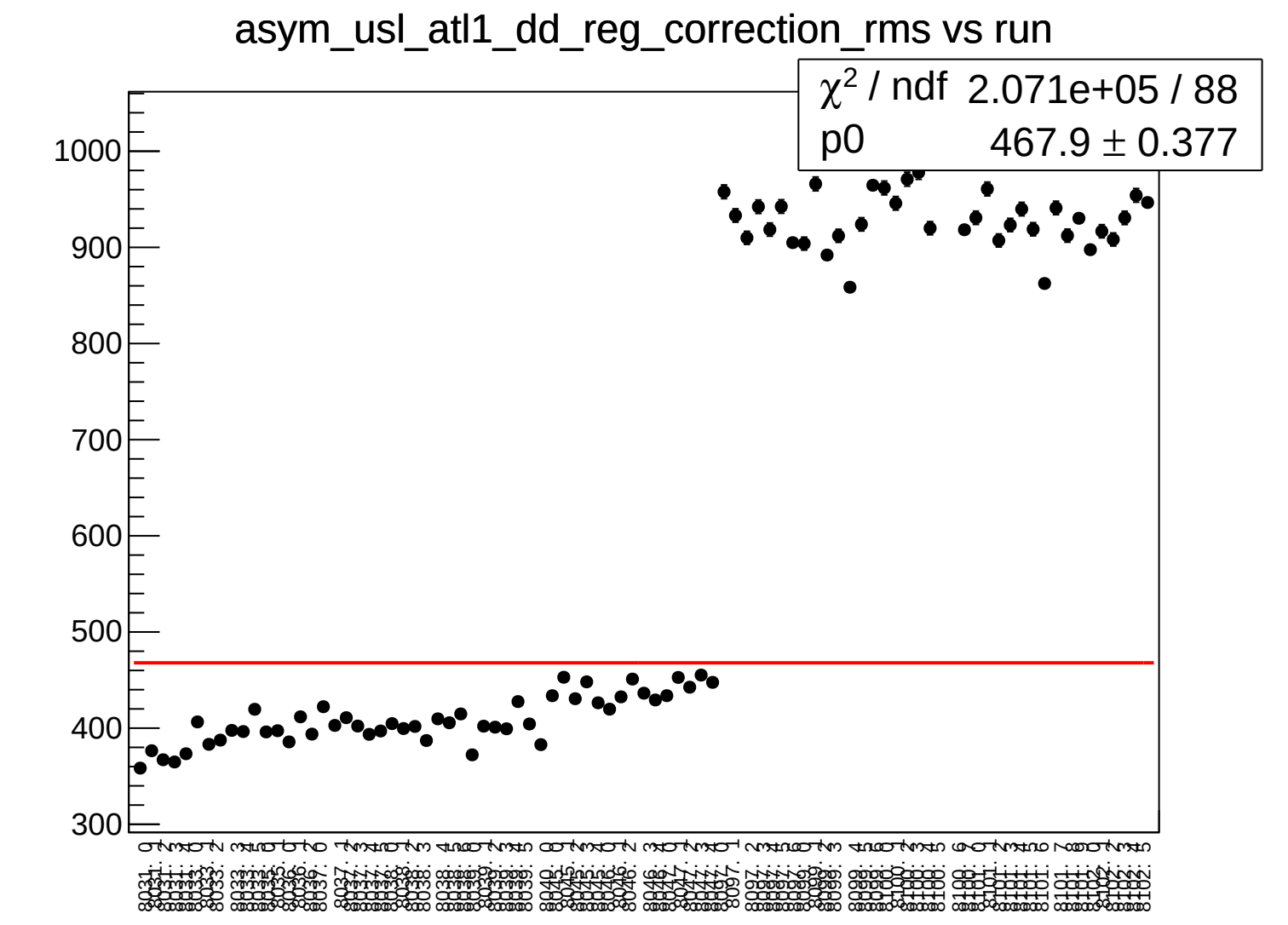

reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 80.26 / 88
p0 −823.8 ± 1206
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean −81.87
Std Dev 0
2
1
0
−1
−2

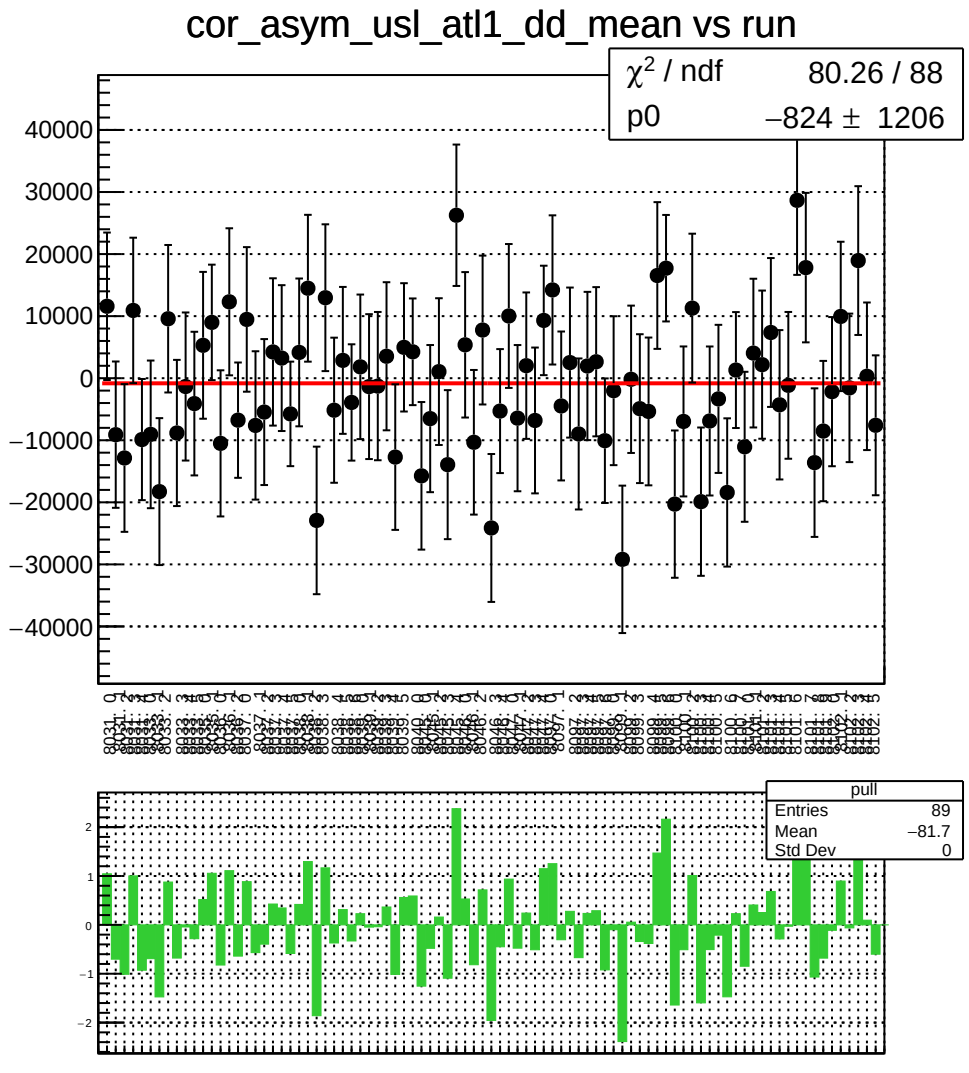

pull1D
Entries 89
Mean −0.01079
Std Dev 0.9496
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

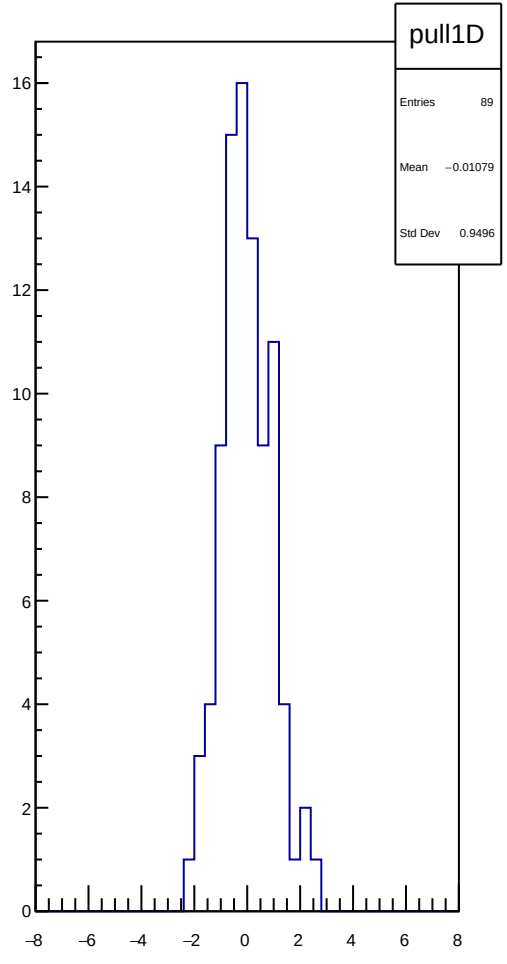

reg_asym_usl_atl1_dd_rms vs run
χ² / ndf 163.3 / 88
p0 1127 ± 0.853
1170
1160
1150
1140
1130
1120
1110
1100
1090

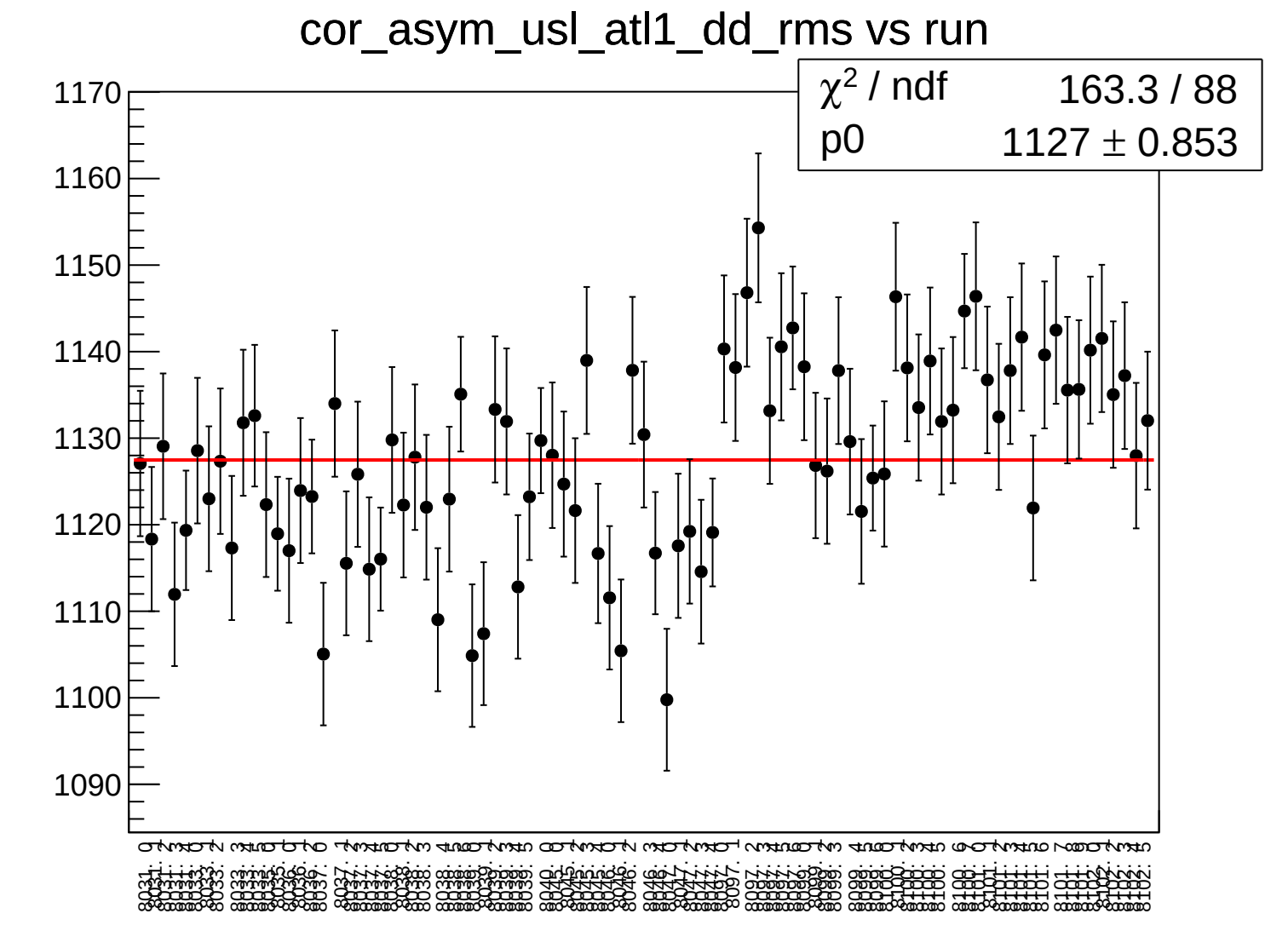

asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 78.72 / 88
p0 −679.3 ± 533.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −13
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

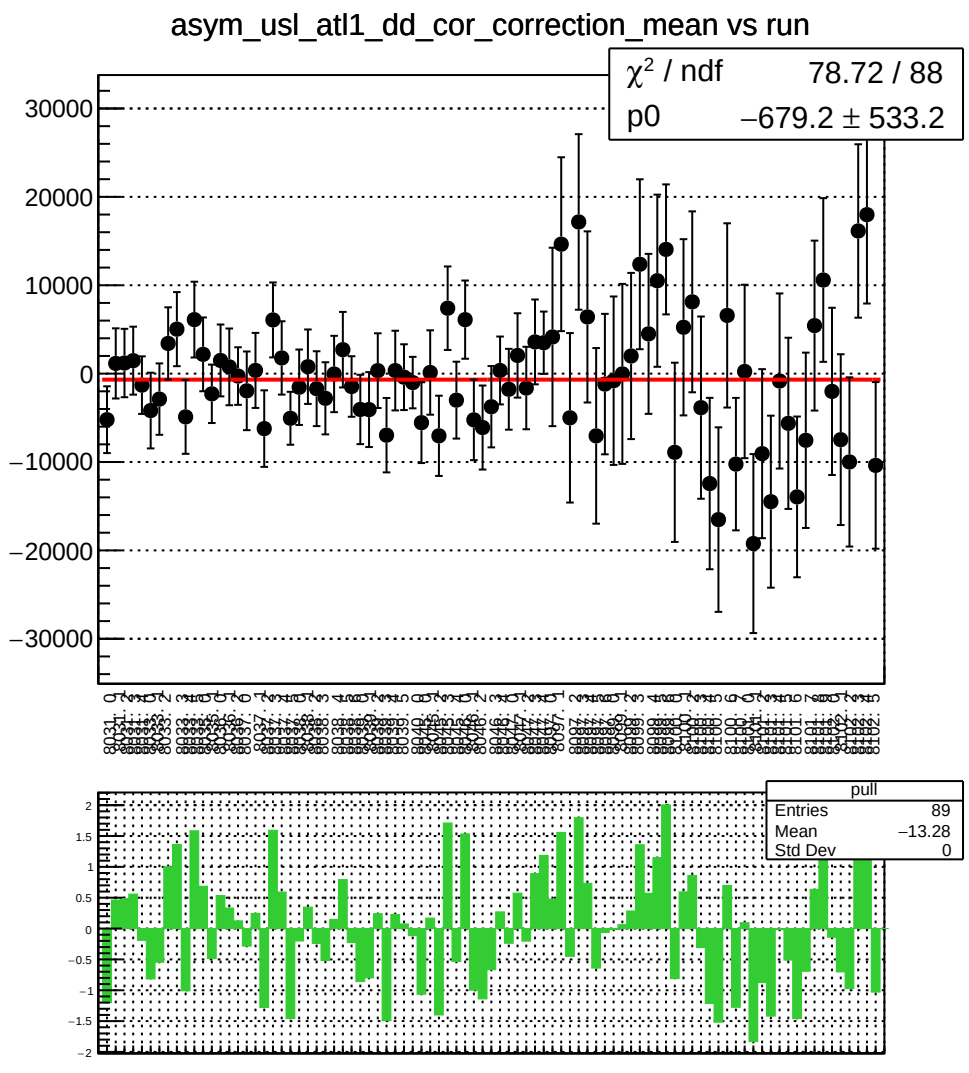

pull1D
Entries 89
Mean 0.01676
Std Dev 0.9403
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

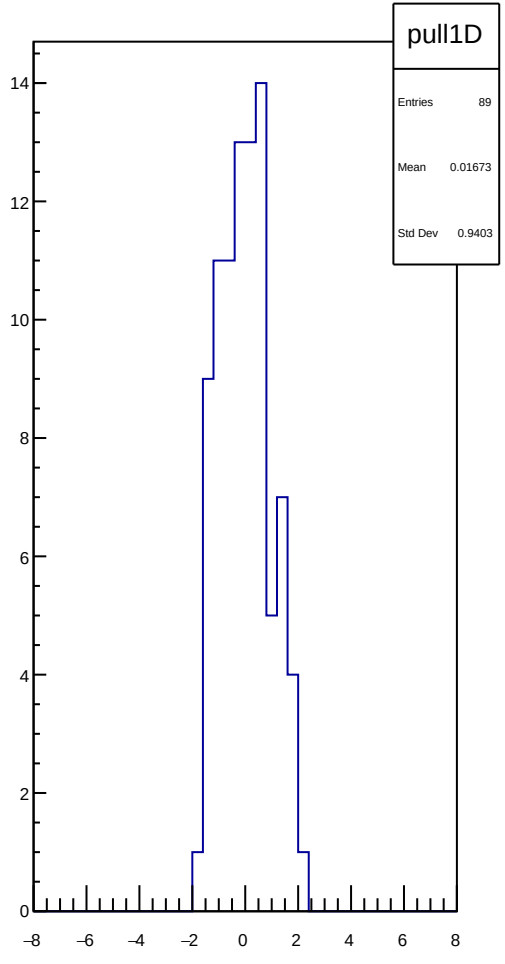

asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 2.071e+05 / 88
p0 467.9 ± 0.377
1000
900
800
700
600
500
400
300

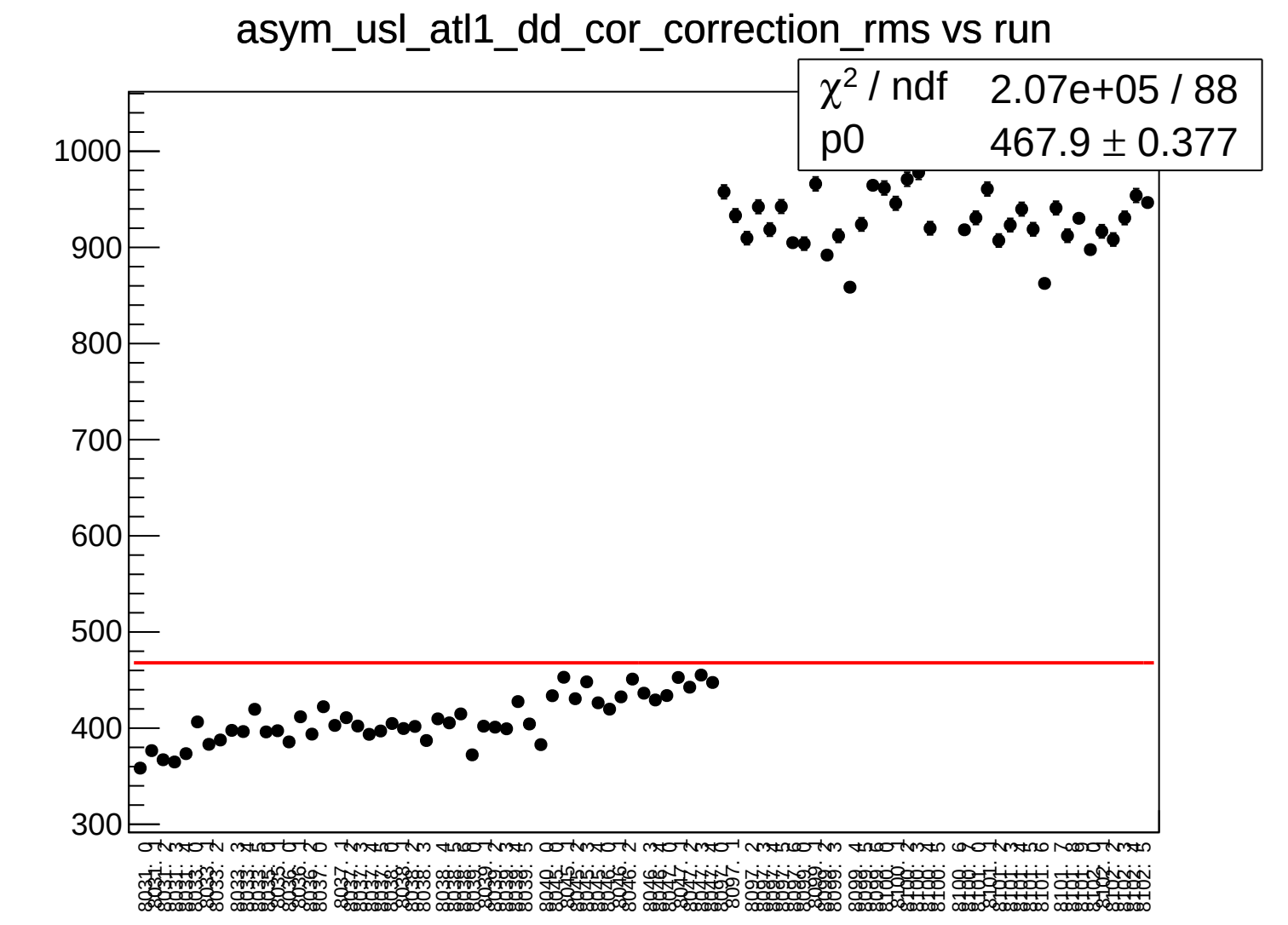

cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 80.26 / 88
p0 −824 ± 1206
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean −81.7
Std Dev 0
2
1
0
−1
−2

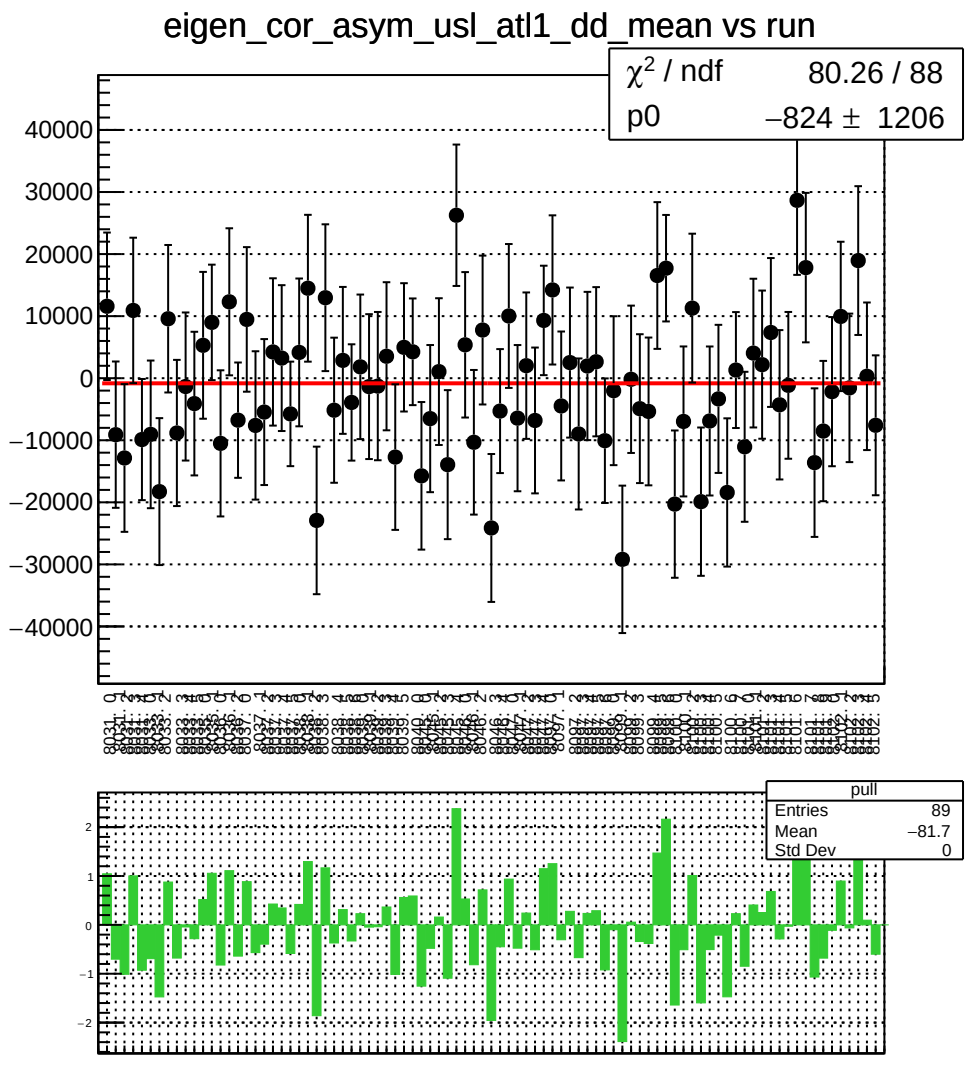

pull1D
Entries 89
Mean −0.01079
Std Dev 0.9496
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

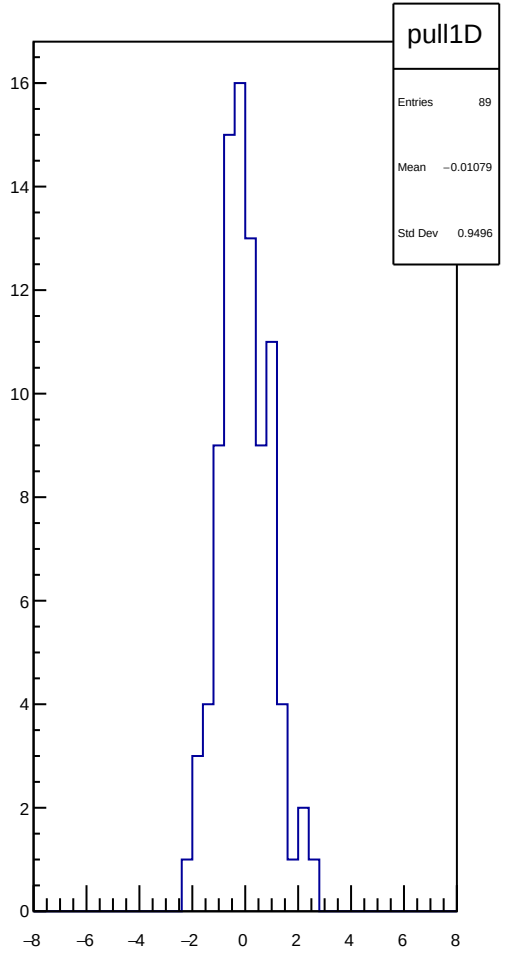

cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 163.3 / 88
p0 1127 ± 0.853
1170
1160
1150
1140
1130
1120
1110
1100
1090


asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 78.72 / 88
p0 −679.2 ± 533.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −13.28
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 89
Mean 0.01673
Std Dev 0.9403
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 2.07e+05 / 88
p0 467.9 ± 0.377
1000
900
800
700
600
500
400
300


eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 80.26 / 88
p0 −824 ± 1206
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean −81.7
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 89
Mean −0.01079
Std Dev 0.9496
16
14
12
10
8
6
4
2
0
−8
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−4
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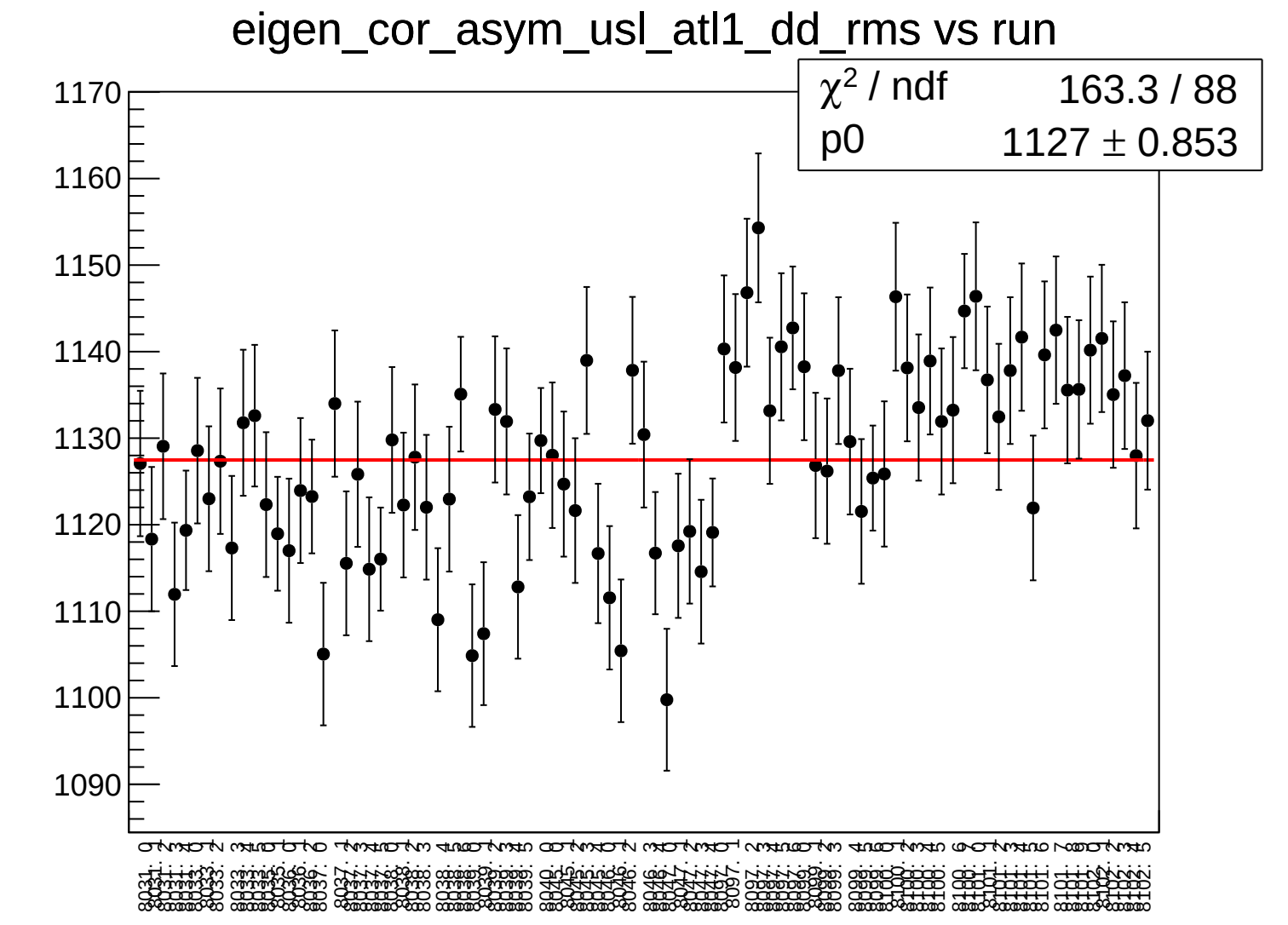
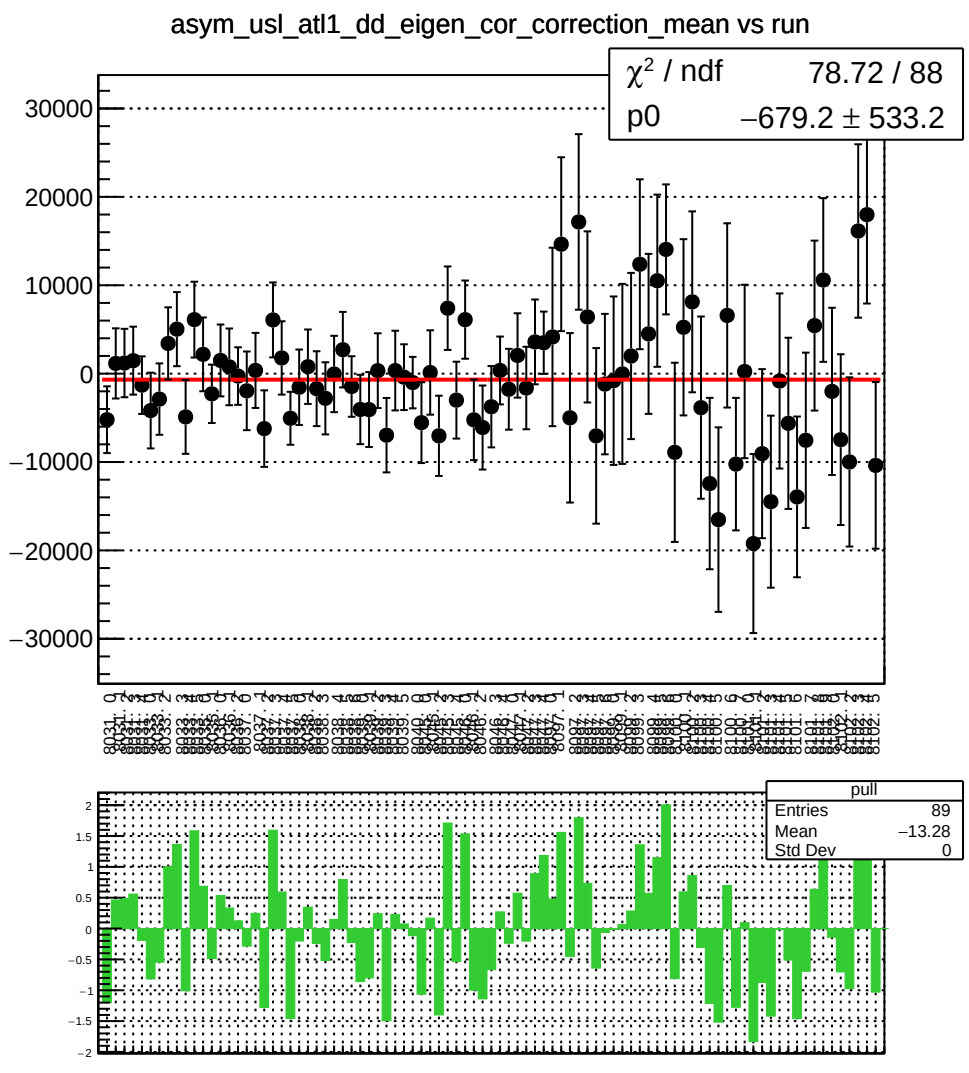
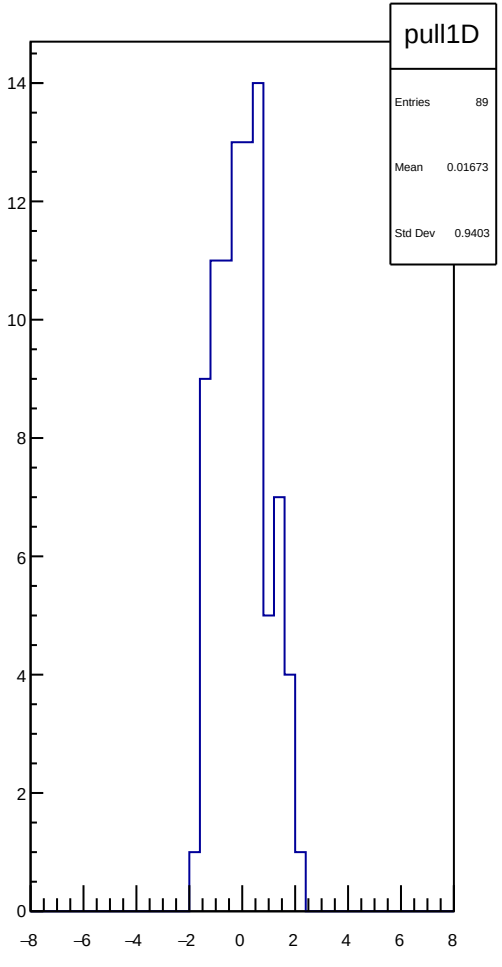
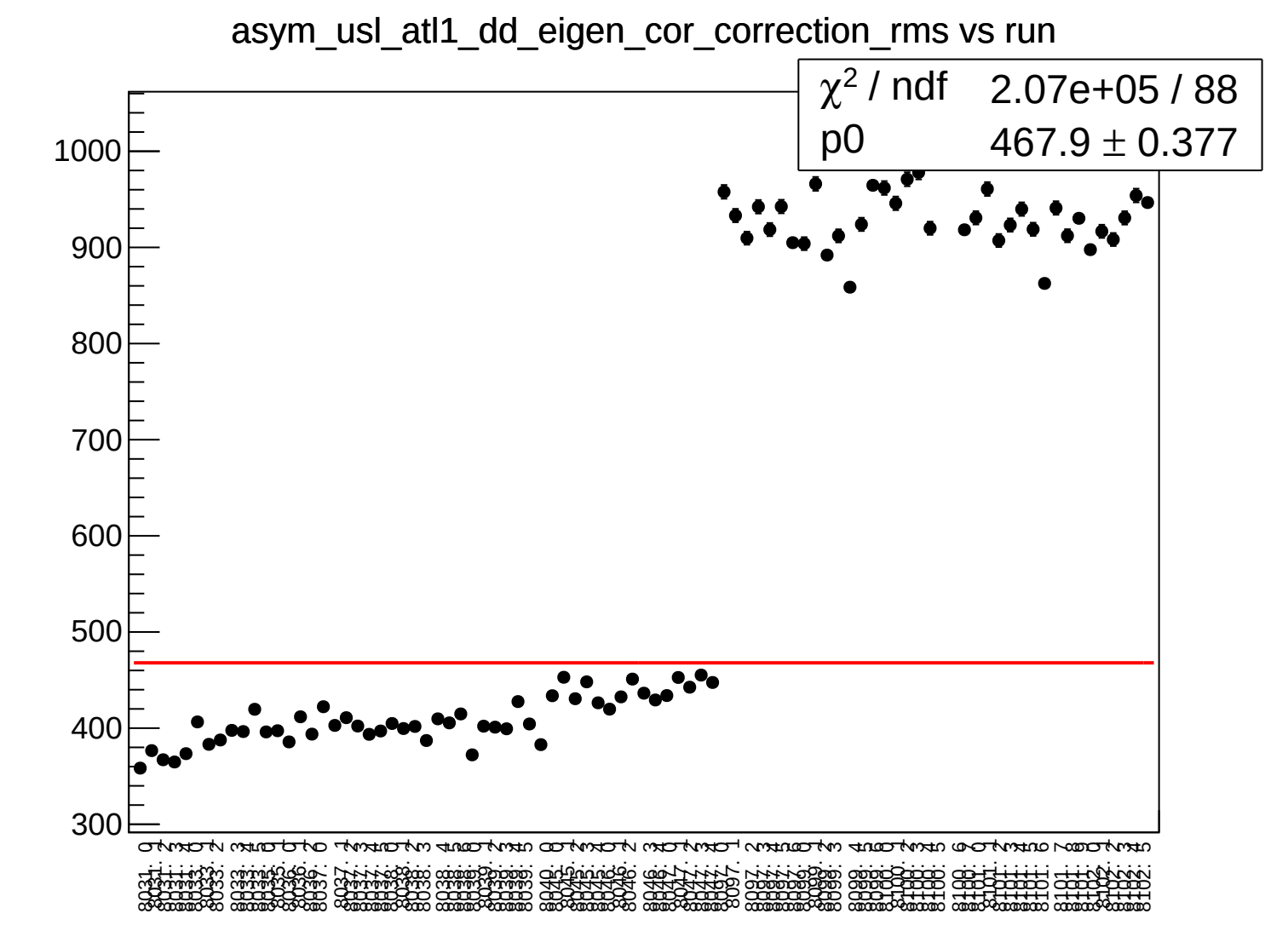
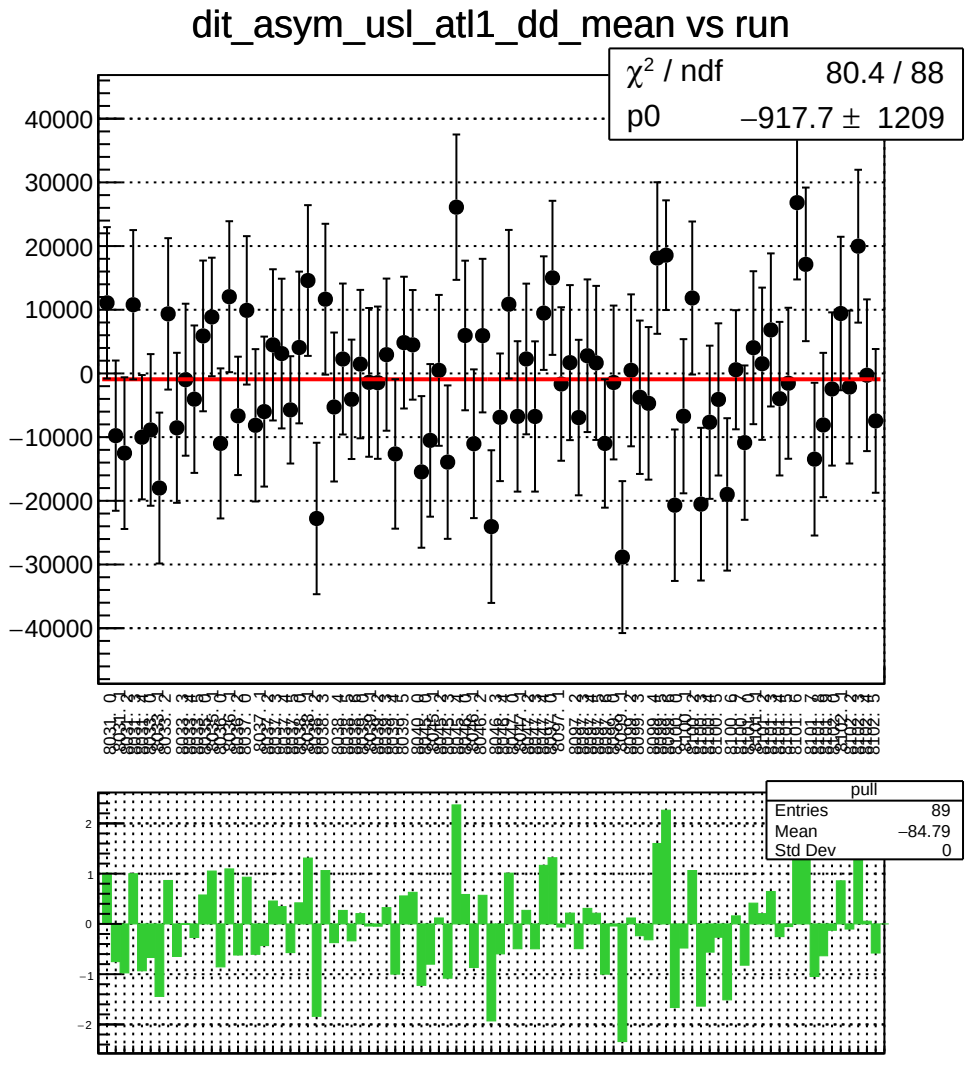
0
2
4
6
8

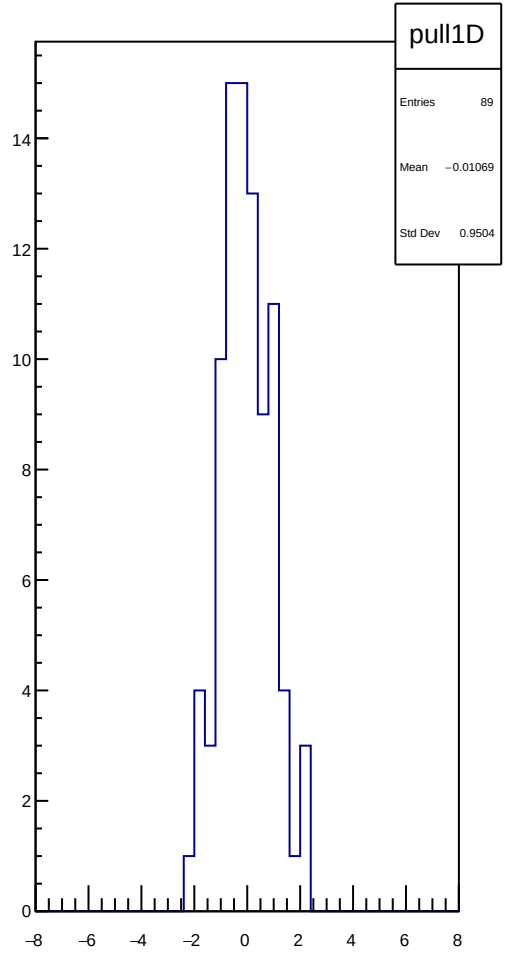

eigen_cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 163.3 / 88
p0 1127 ± 0.853
1170
1160
1150
1140
1130
1120
1110
1100
1090

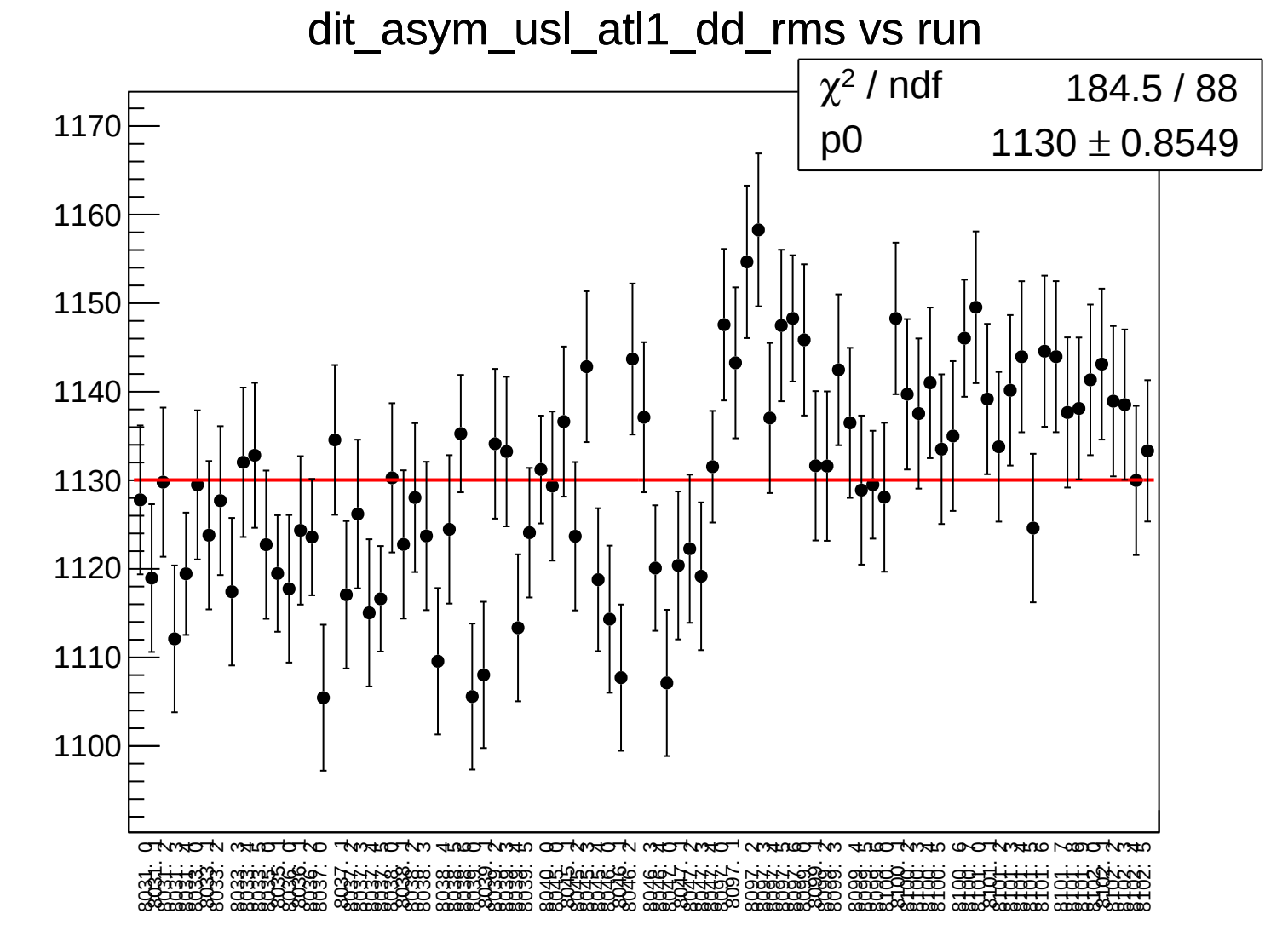

asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 78.72 / 88
p0 −679.2 ± 533.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −13.28
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

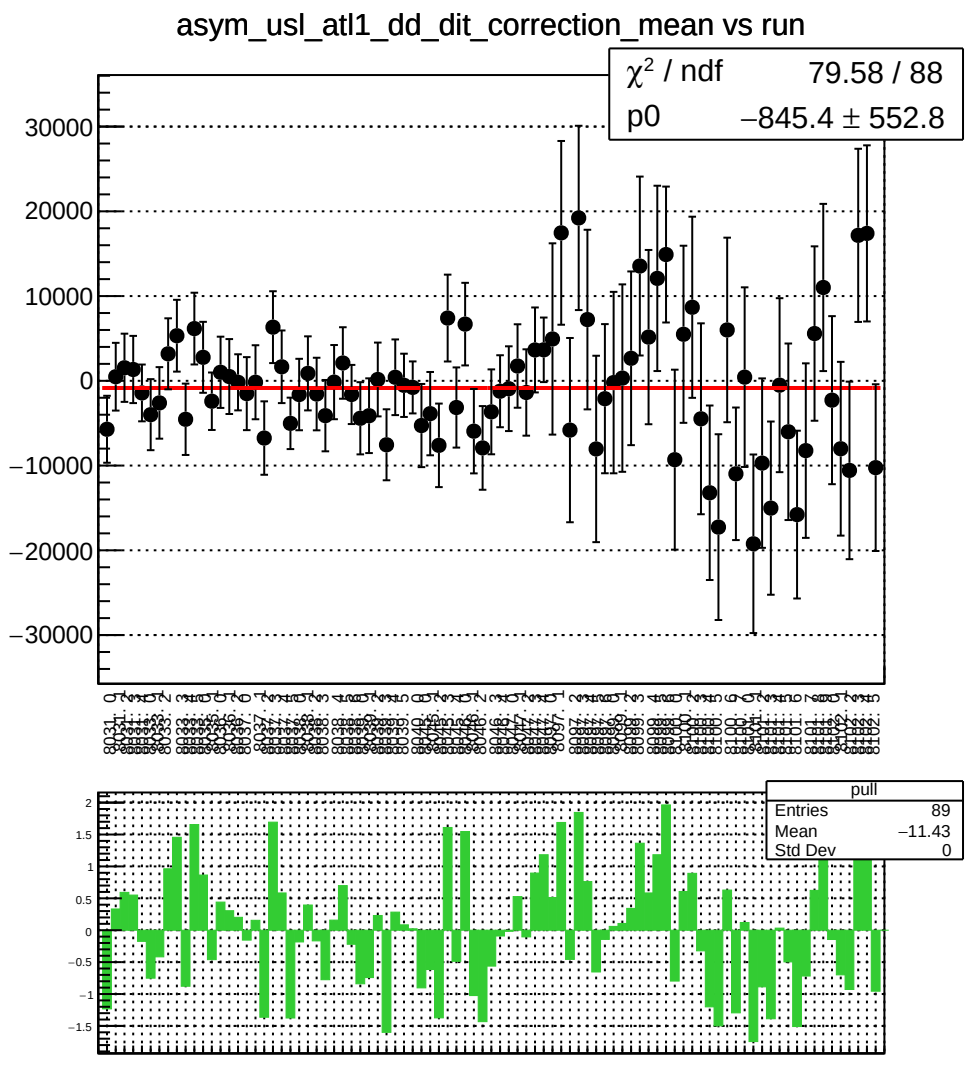

pull1D
Entries 89
Mean 0.01673
Std Dev 0.9403
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

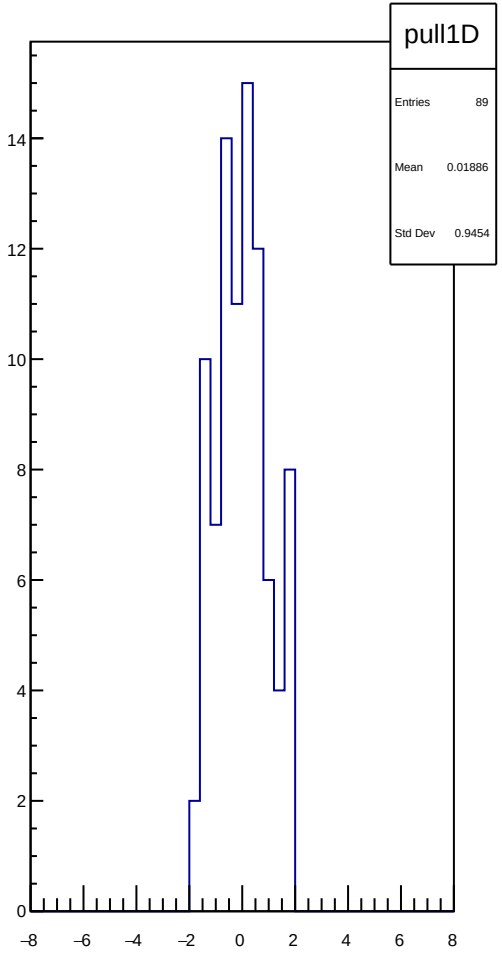

asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.07e+05 / 88
p0 467.9 ± 0.377
1000
900
800
700
600
500
400
300

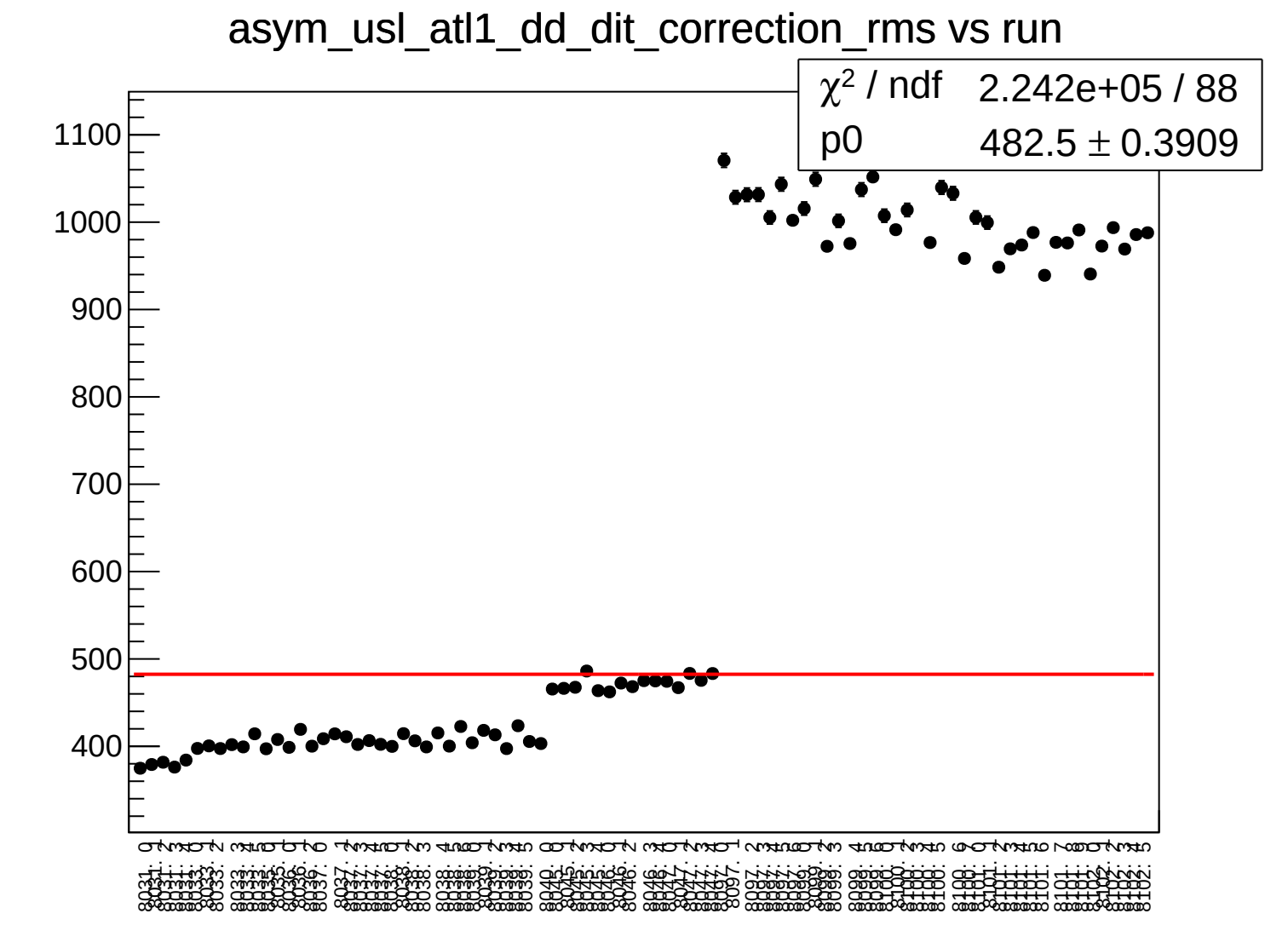

dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 80.4 / 88
p0 −917.7 ± 1209
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean −84.79
Std Dev 0
2
1
0
−1
−2

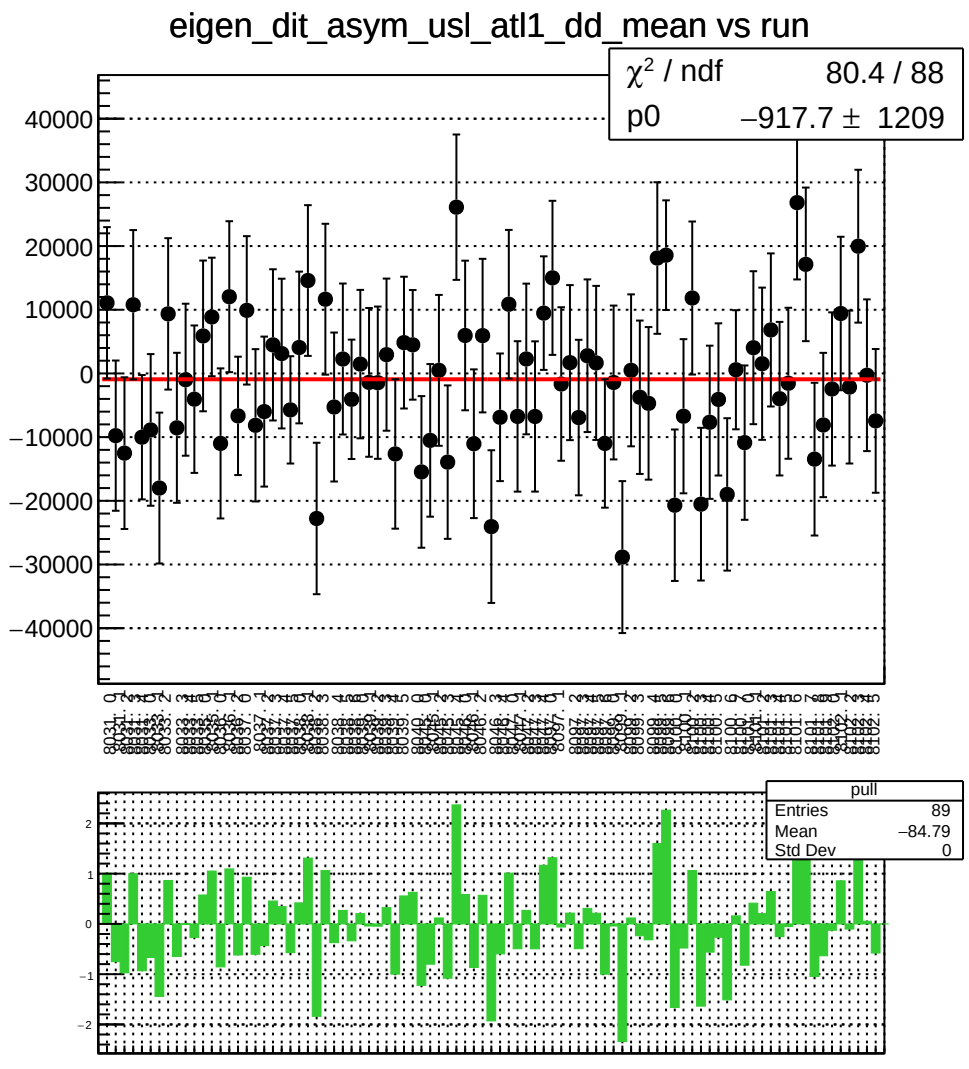

pull1D
Entries 89
Mean −0.01069
Std Dev 0.9504
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

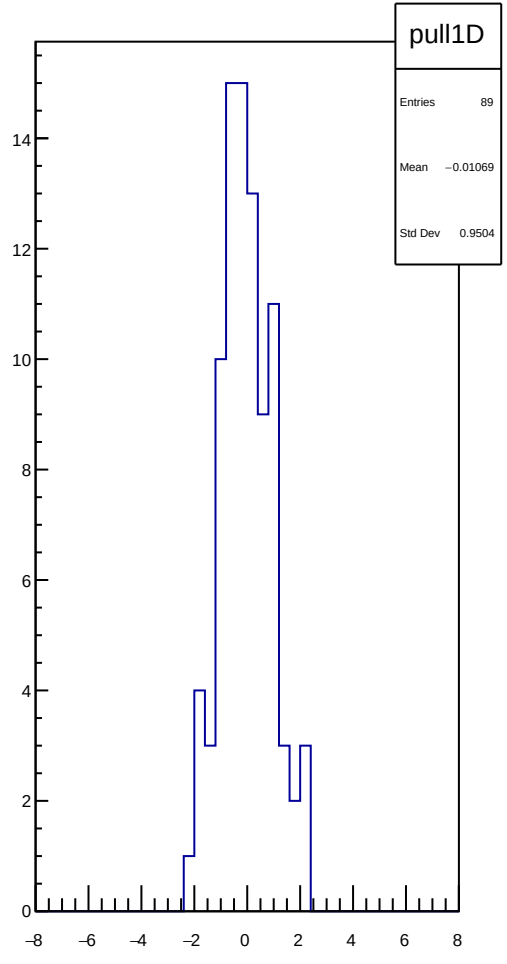

dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 184.5 / 88
p0 1130 ± 0.8549
1170
1160
1150
1140
1130
1120
1110
1100

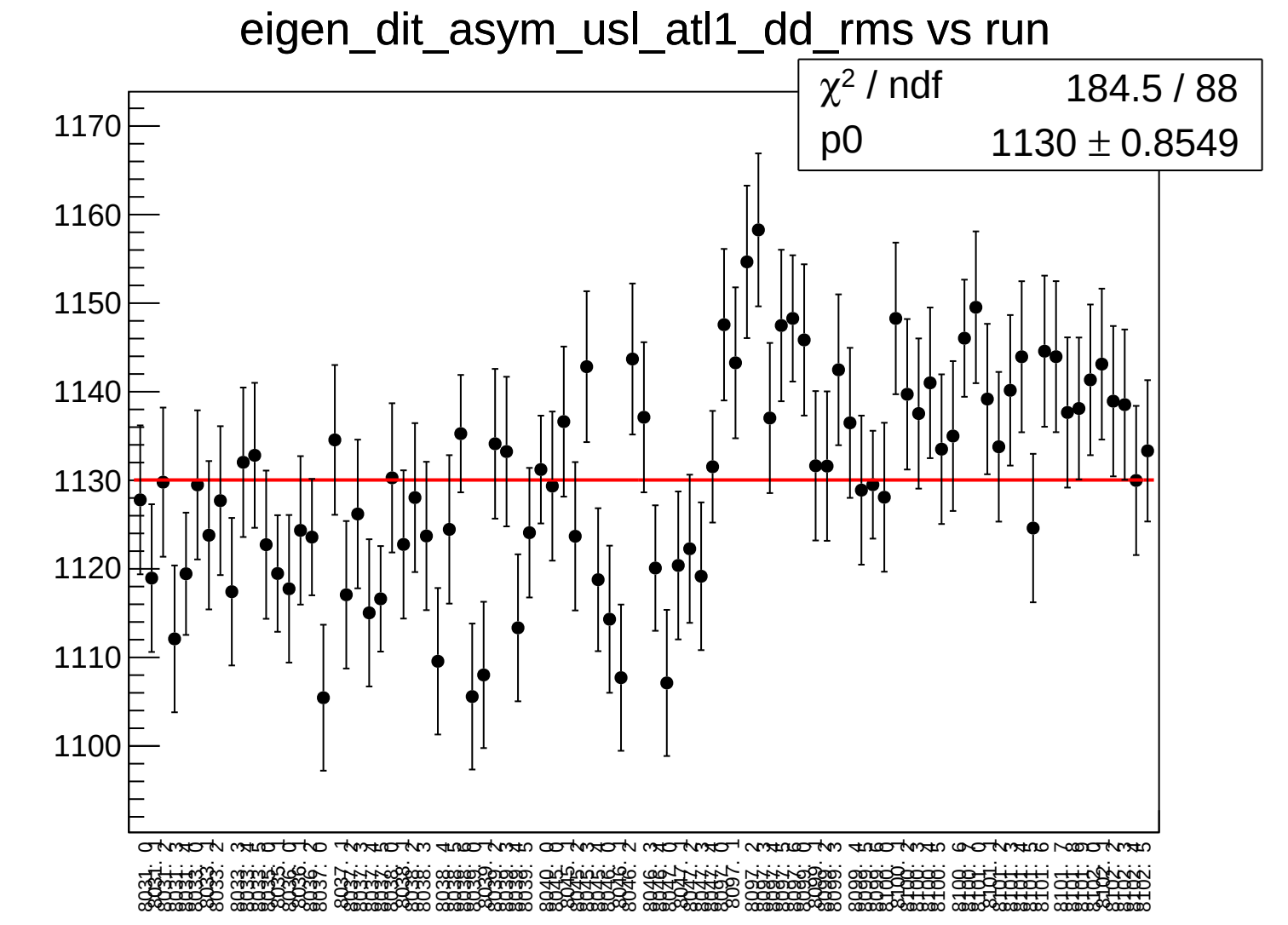

asym_usl_atl1_dd_dit_correction_mean vs run
χ² / ndf 79.58 / 88
p0 −845.4 ± 552.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −11.43
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

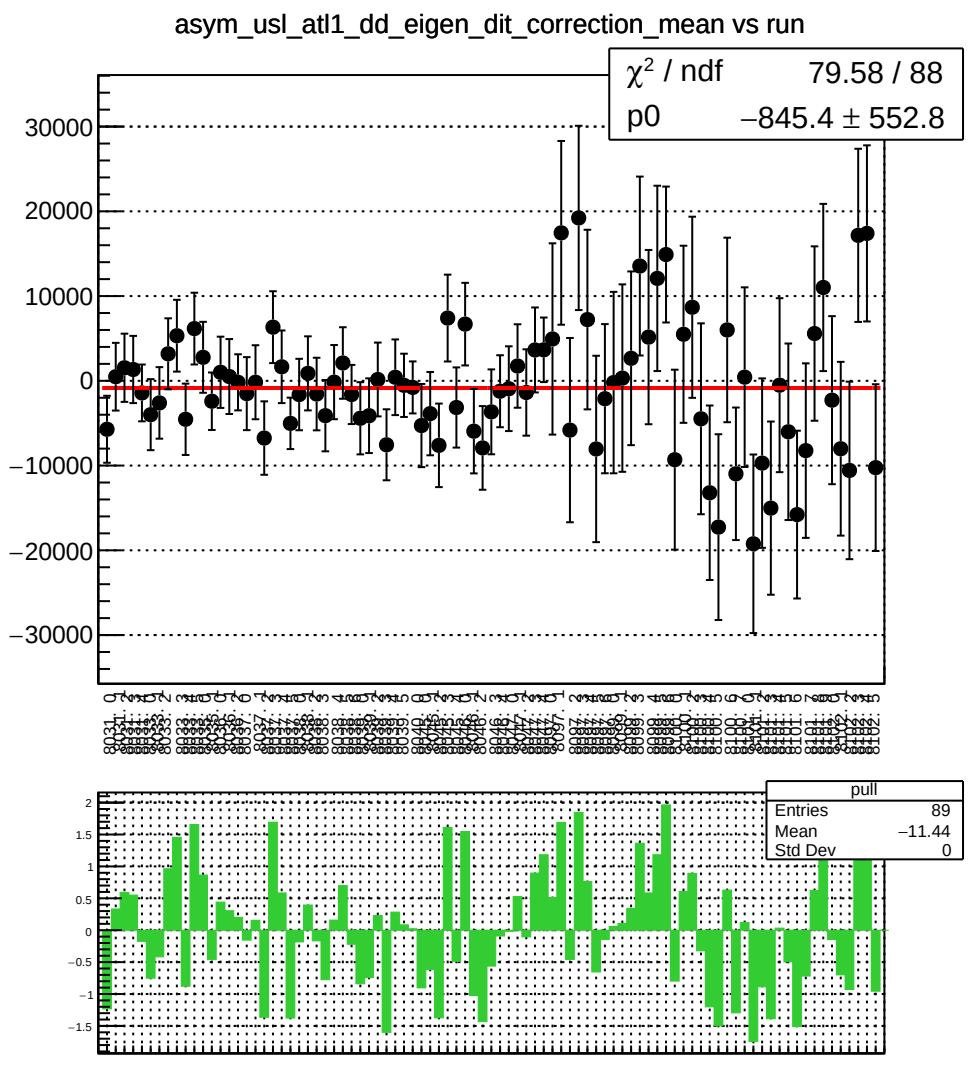

pull1D
Entries 89
Mean 0.01886
Std Dev 0.9454
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

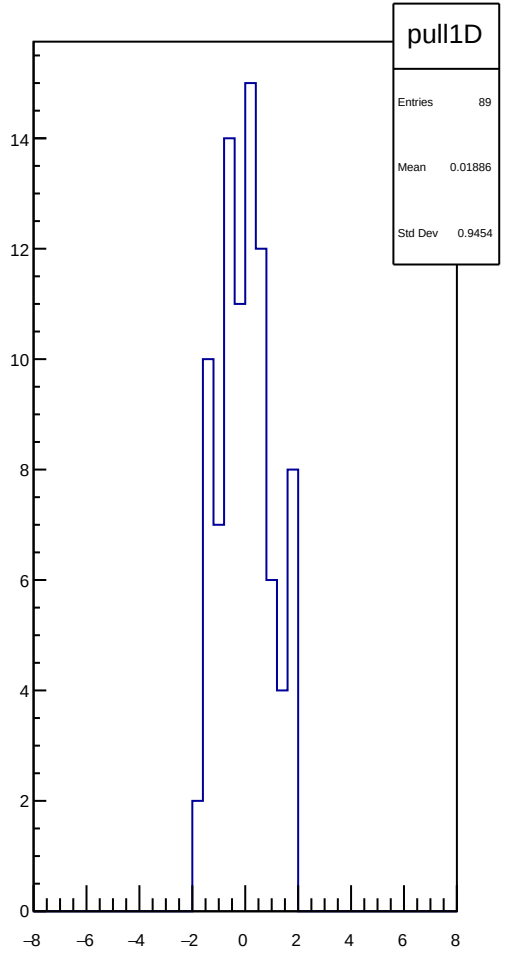

asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 2.242e+05 / 88
p0 482.5 ± 0.3909
1100
1000
900
800
700
600
500
400

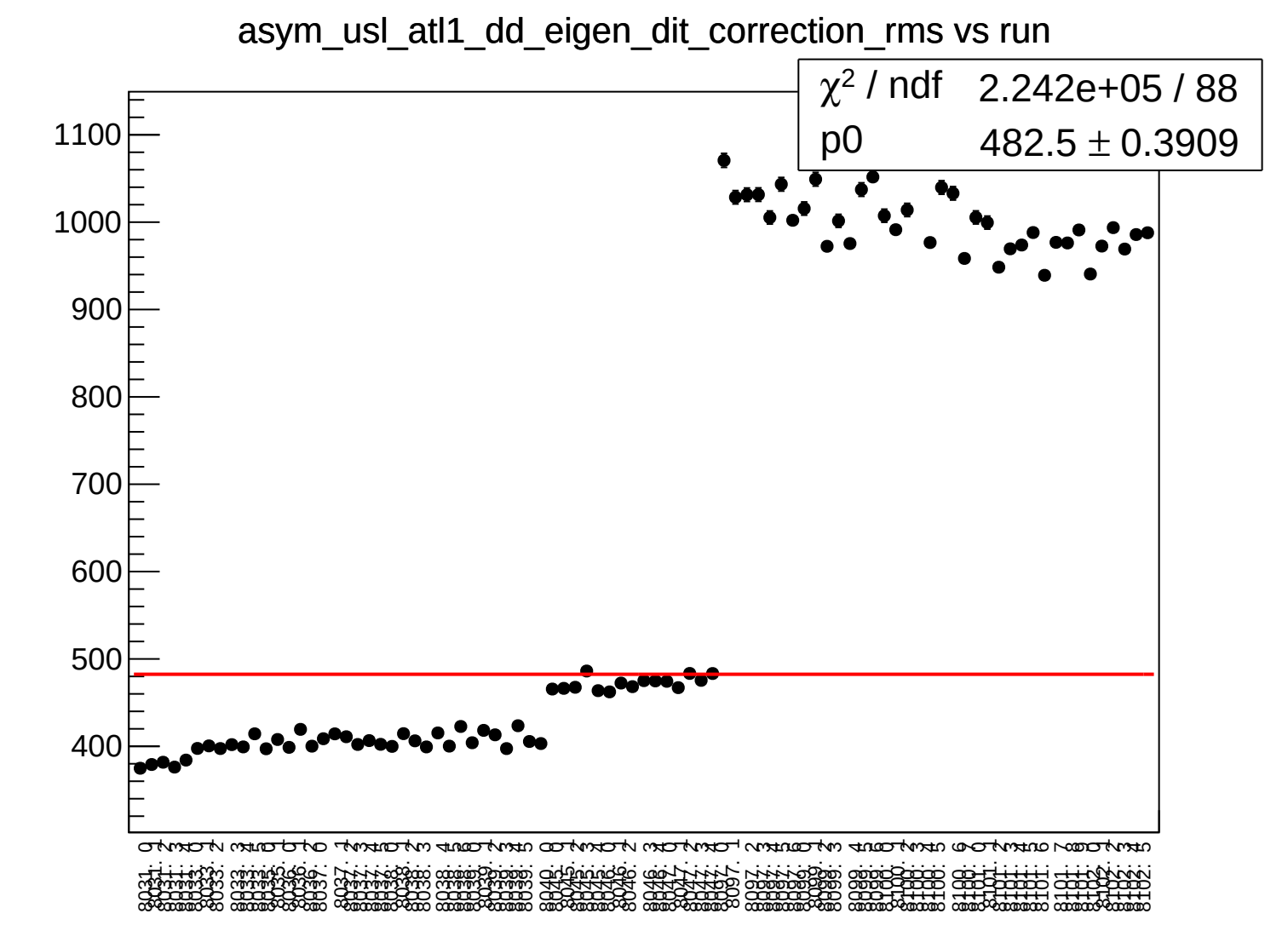

eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 80.4 / 88
p0 −917.7 ± 1209
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean −84.79
Std Dev 0
2
1
0
−1
−2

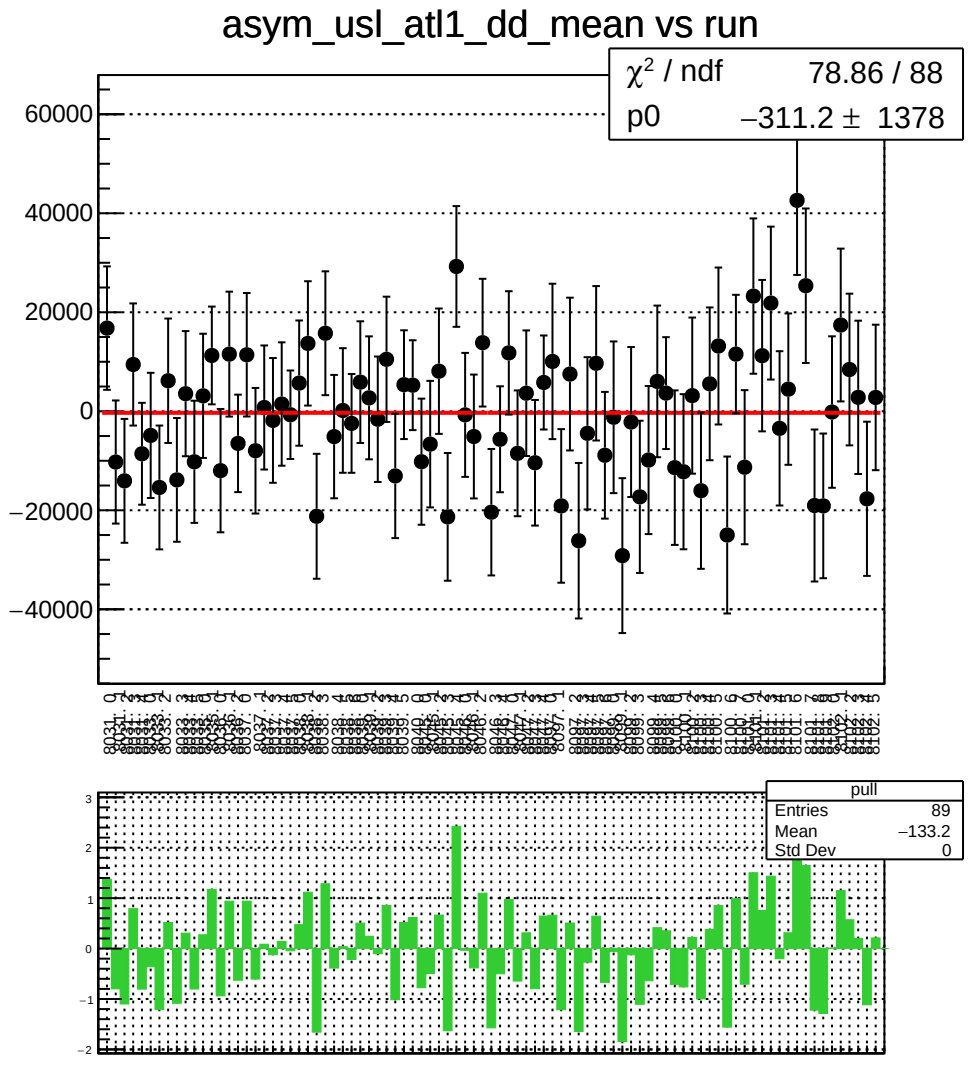

pull1D
Entries 89
Mean −0.01069
Std Dev 0.9504
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

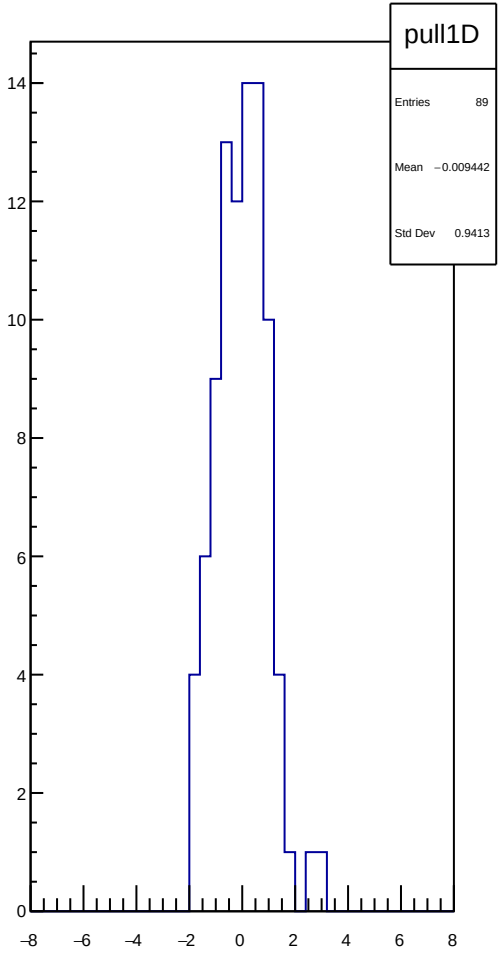

eigen_dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 184.5 / 88
p0 1130 ± 0.8549
1170
1160
1150
1140
1130
1120
1110
1100

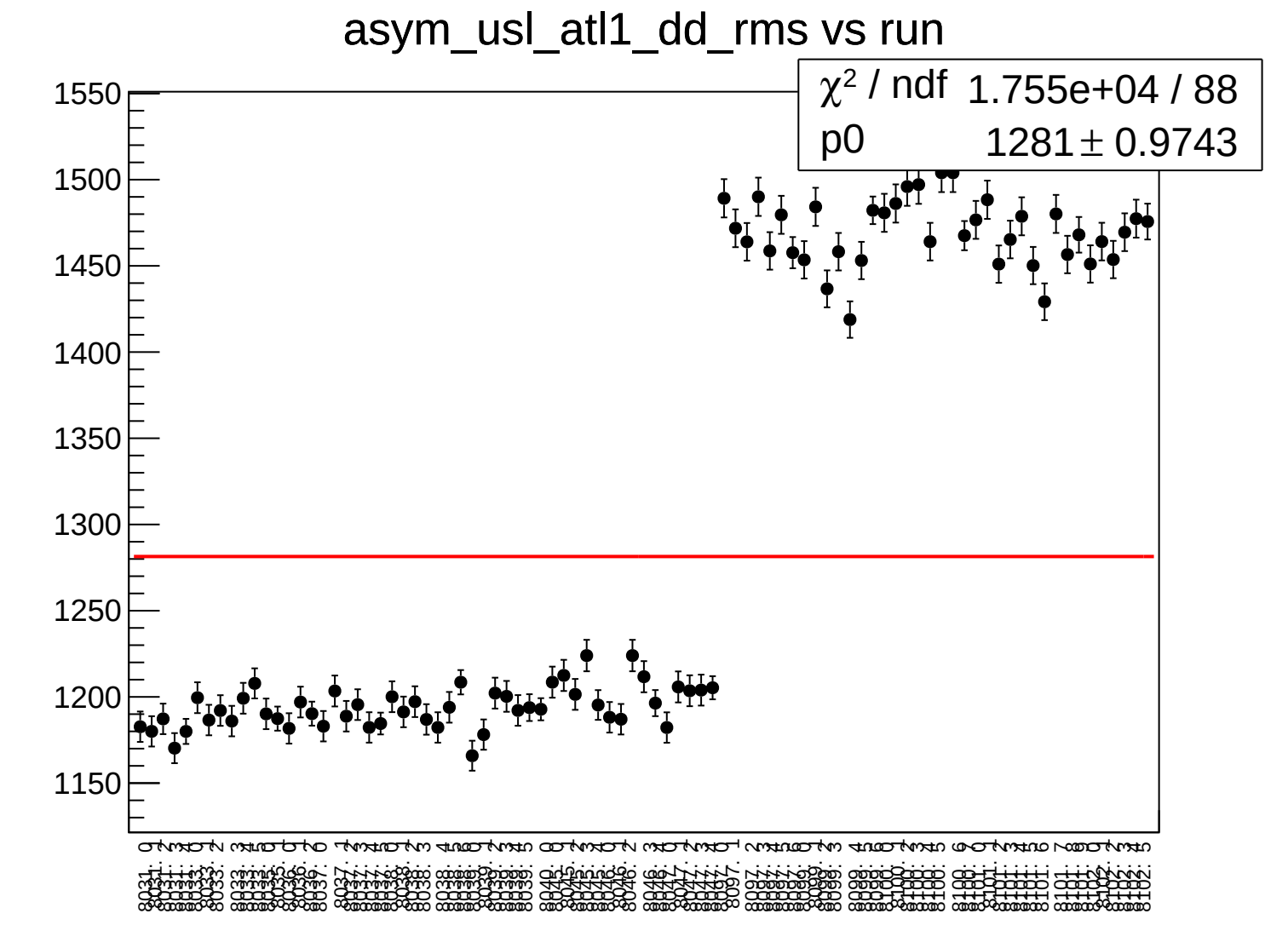

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 79.58 / 88
p0 −845.4 ± 552.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −11.44
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

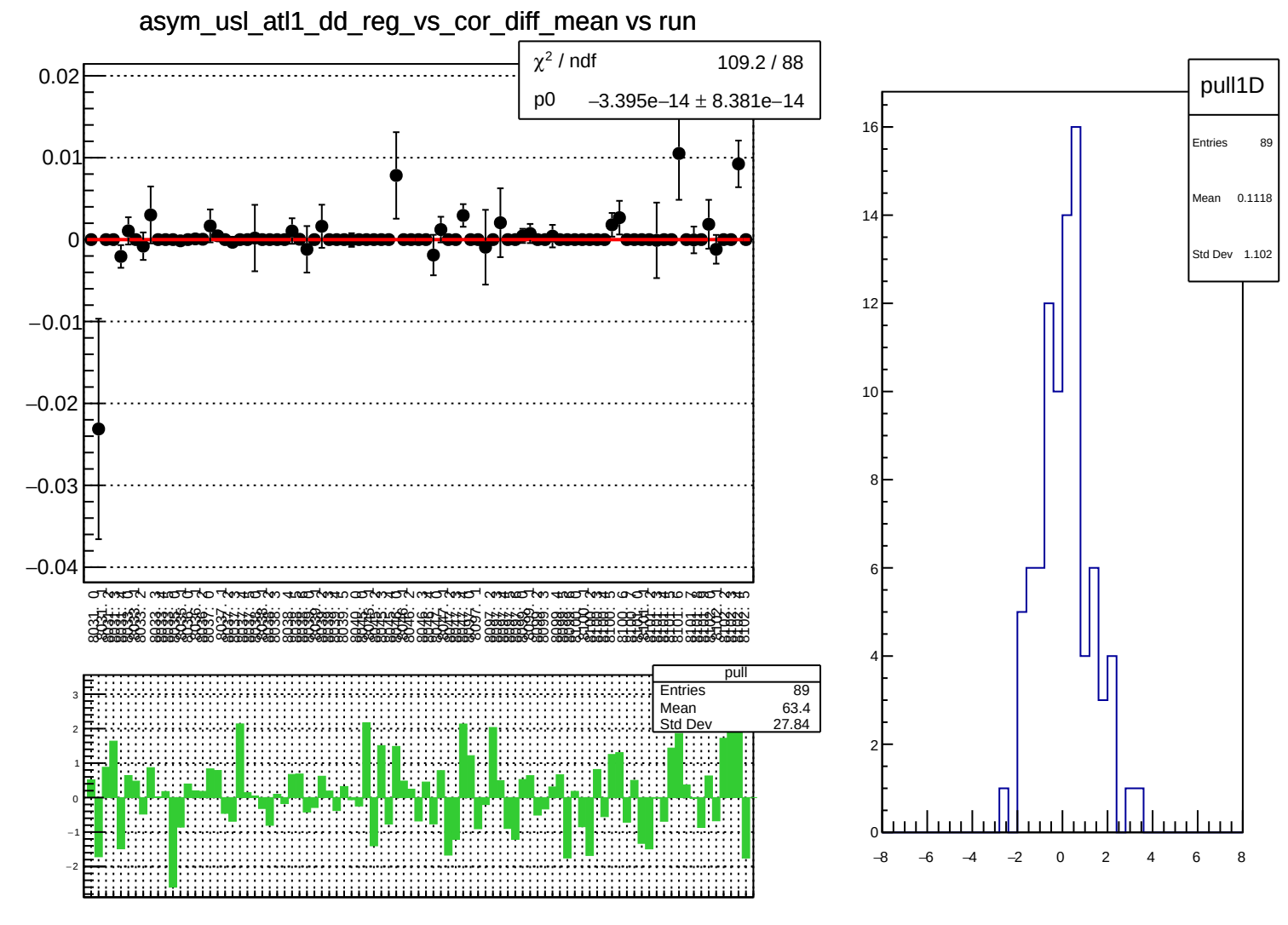

pull1D
Entries 89
Mean 0.01886
Std Dev 0.9454
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

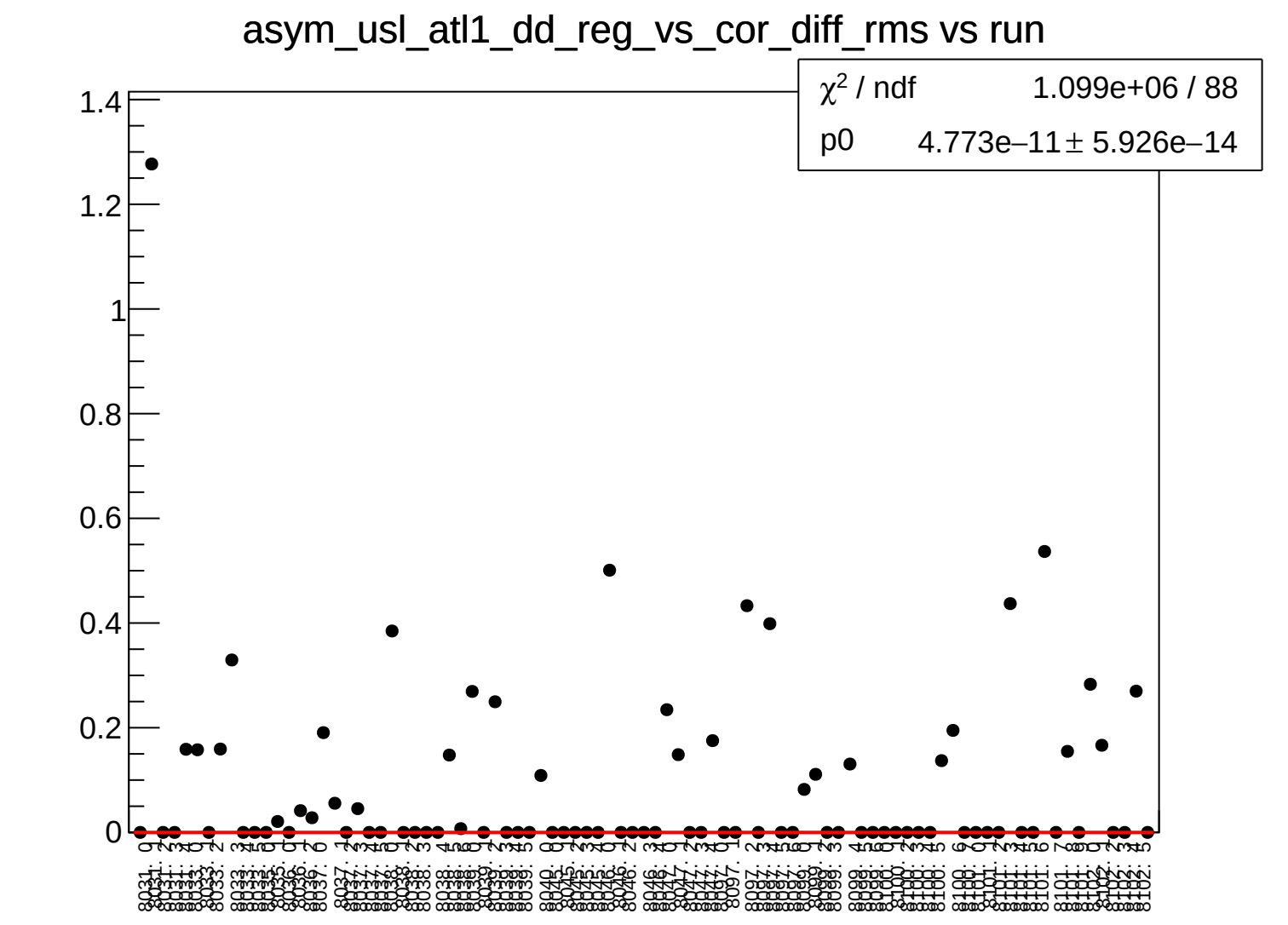

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.242e+05 / 88
p0 482.5 ± 0.3909
1100
1000
900
800
700
600
500
400

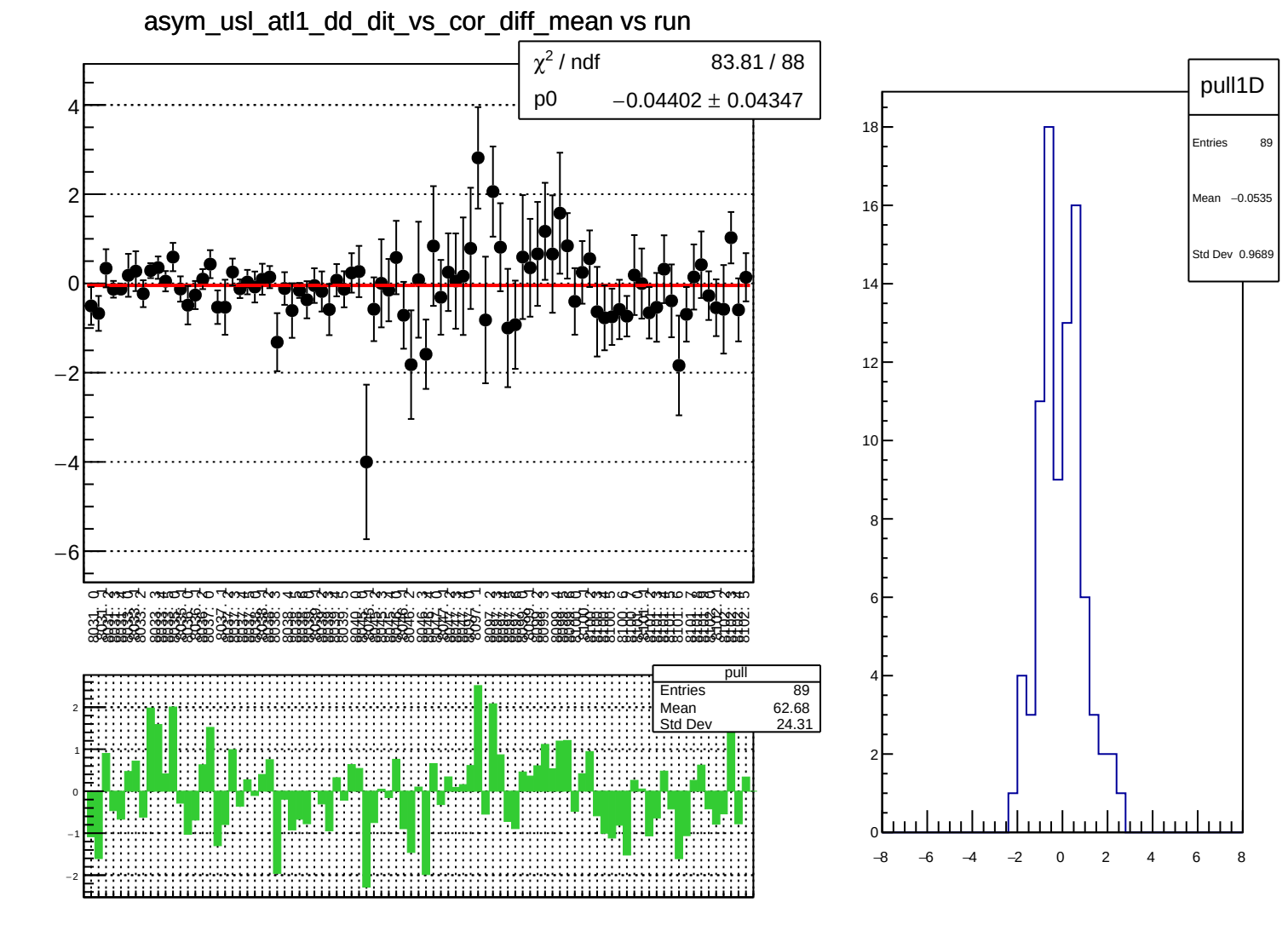

asym_usl_atl1_dd_mean vs run
χ² / ndf 78.86 / 88
p0 −311.2 ± 1378
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −133.2
Std Dev 0
3
2
1
0
−1
−2

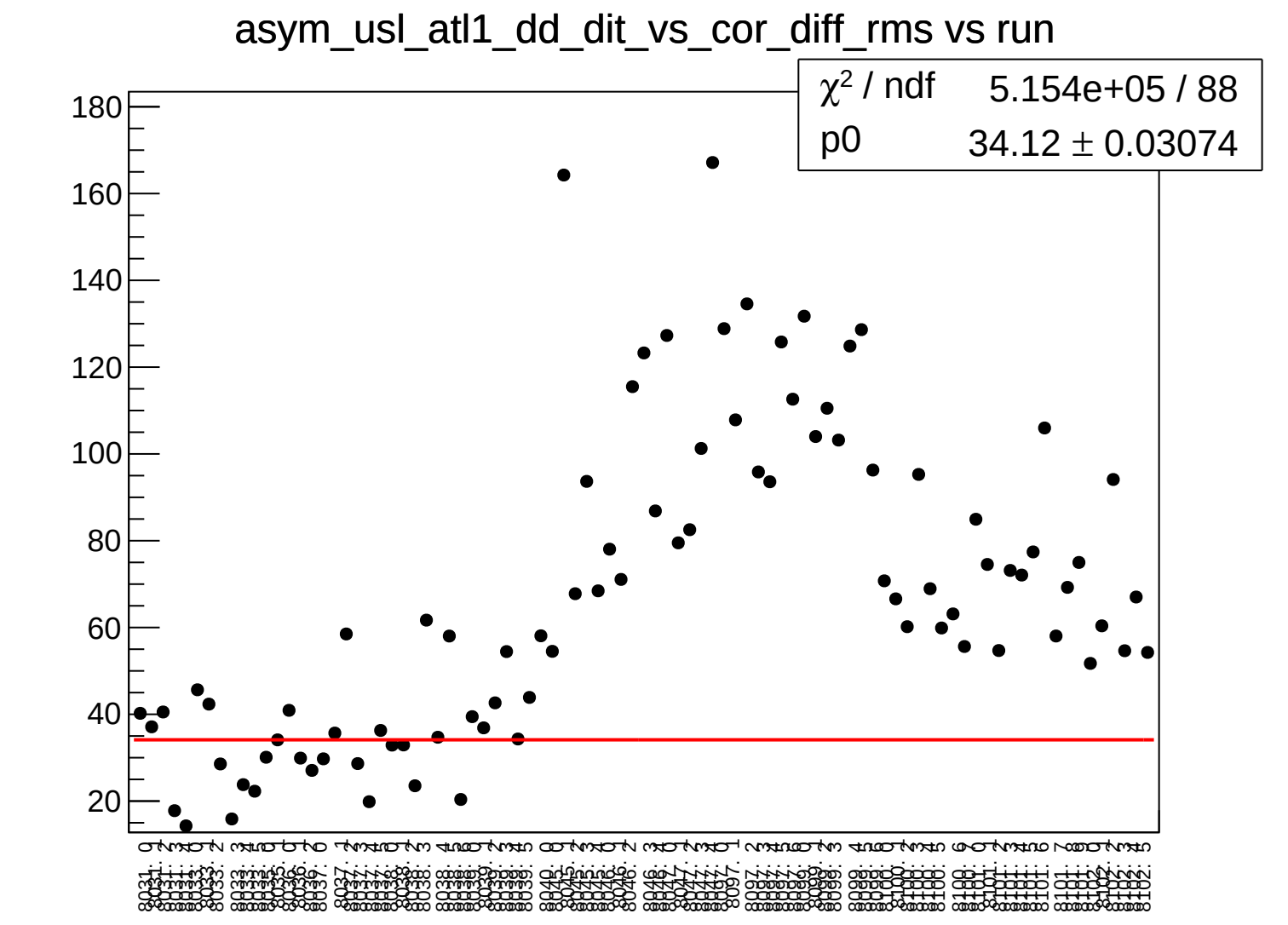

pull1D
Entries 89
Mean −0.009442
Std Dev 0.9413
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

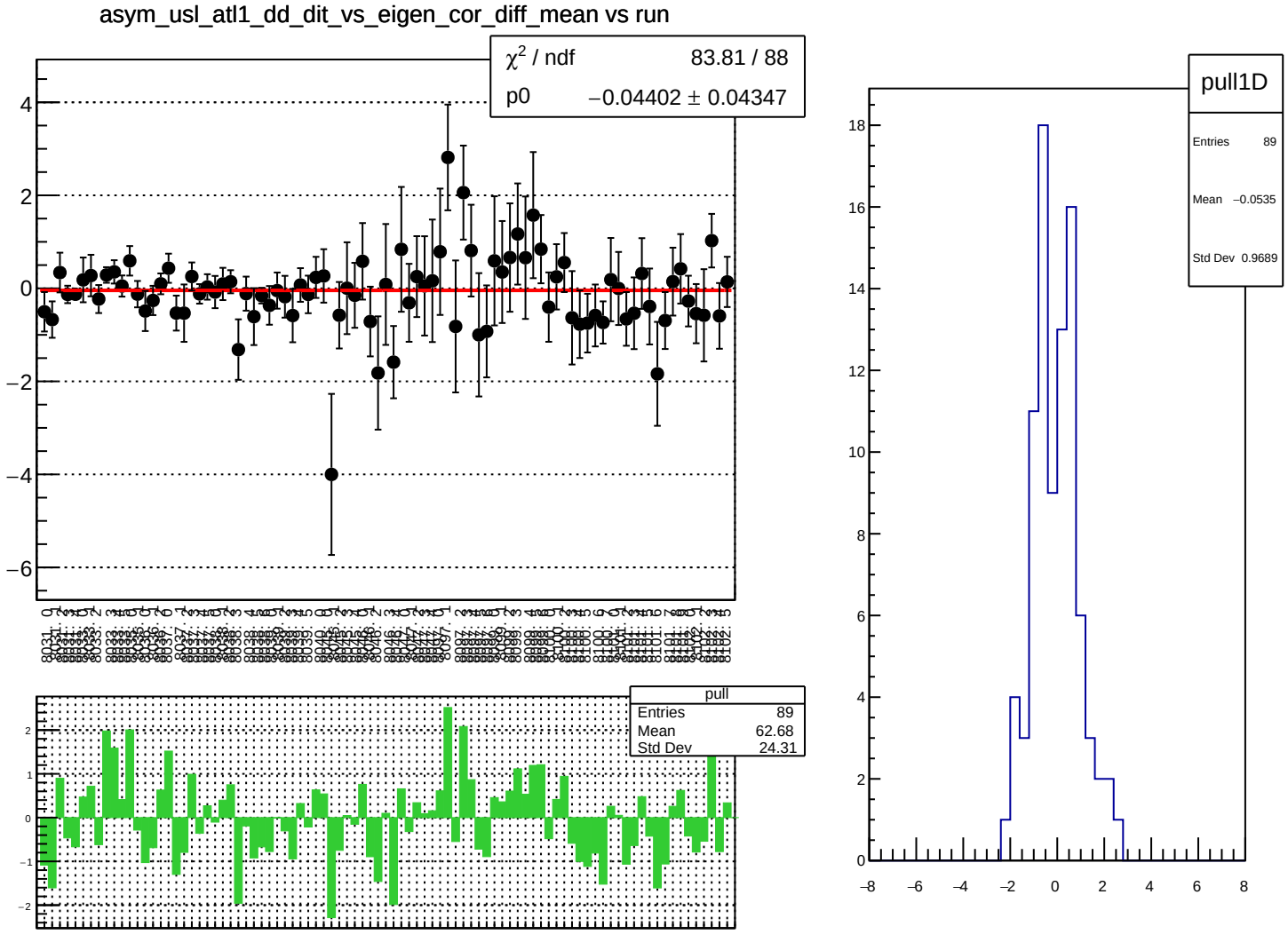

asym_usl_atl1_dd_rms vs run
χ² / ndf 1.755e+04 / 88
p0 1281 ± 0.9743
1550
1500
1450
1400
1350
1300
1250
1200
1150

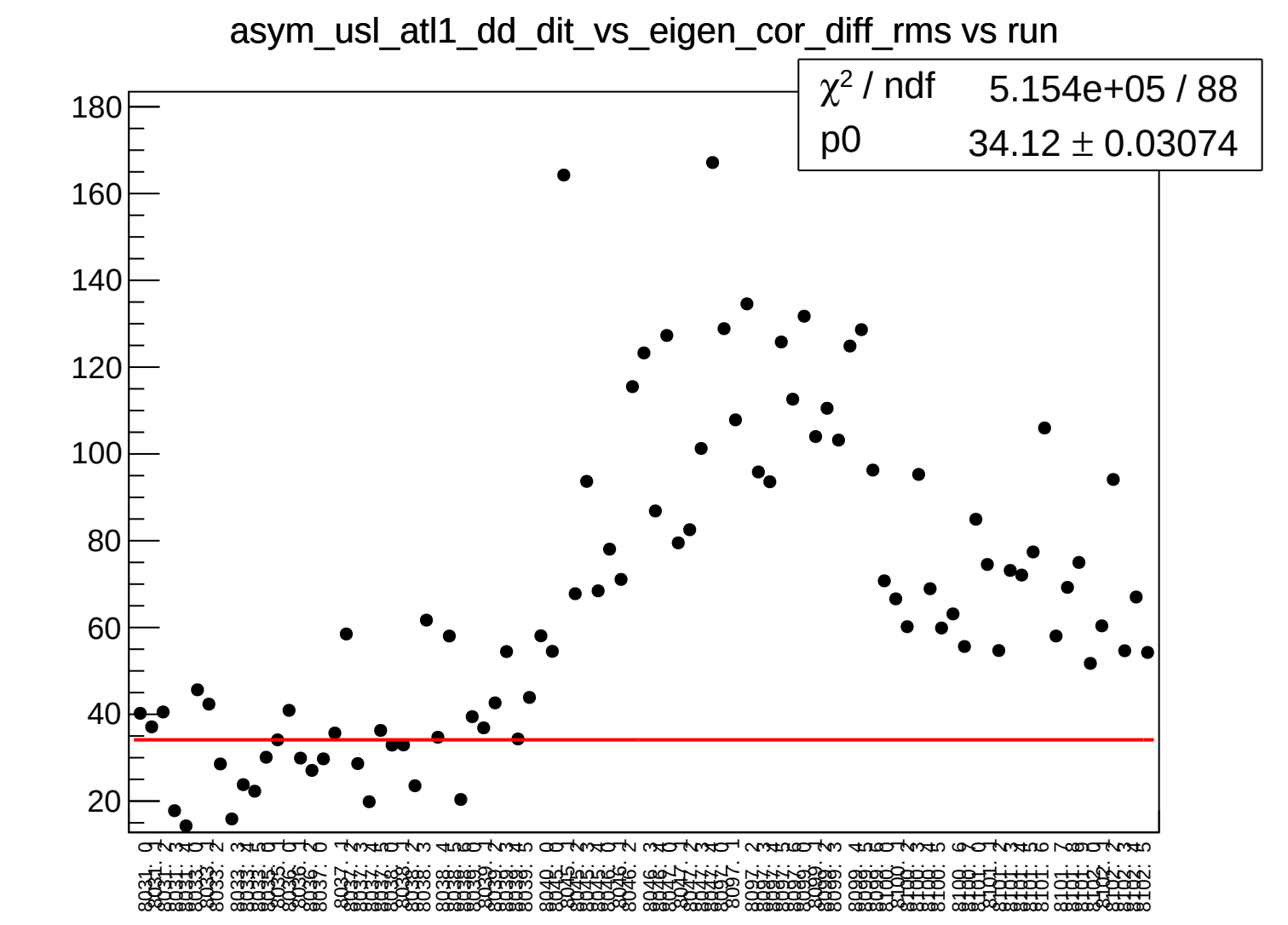

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 109.2 / 88
p0 −3.395e−14 ± 8.381e−14
pull
Entries 89
Mean 63.4
Std Dev 27.84
pull1D
Entries 89
Mean 0.1118
Std Dev 1.102

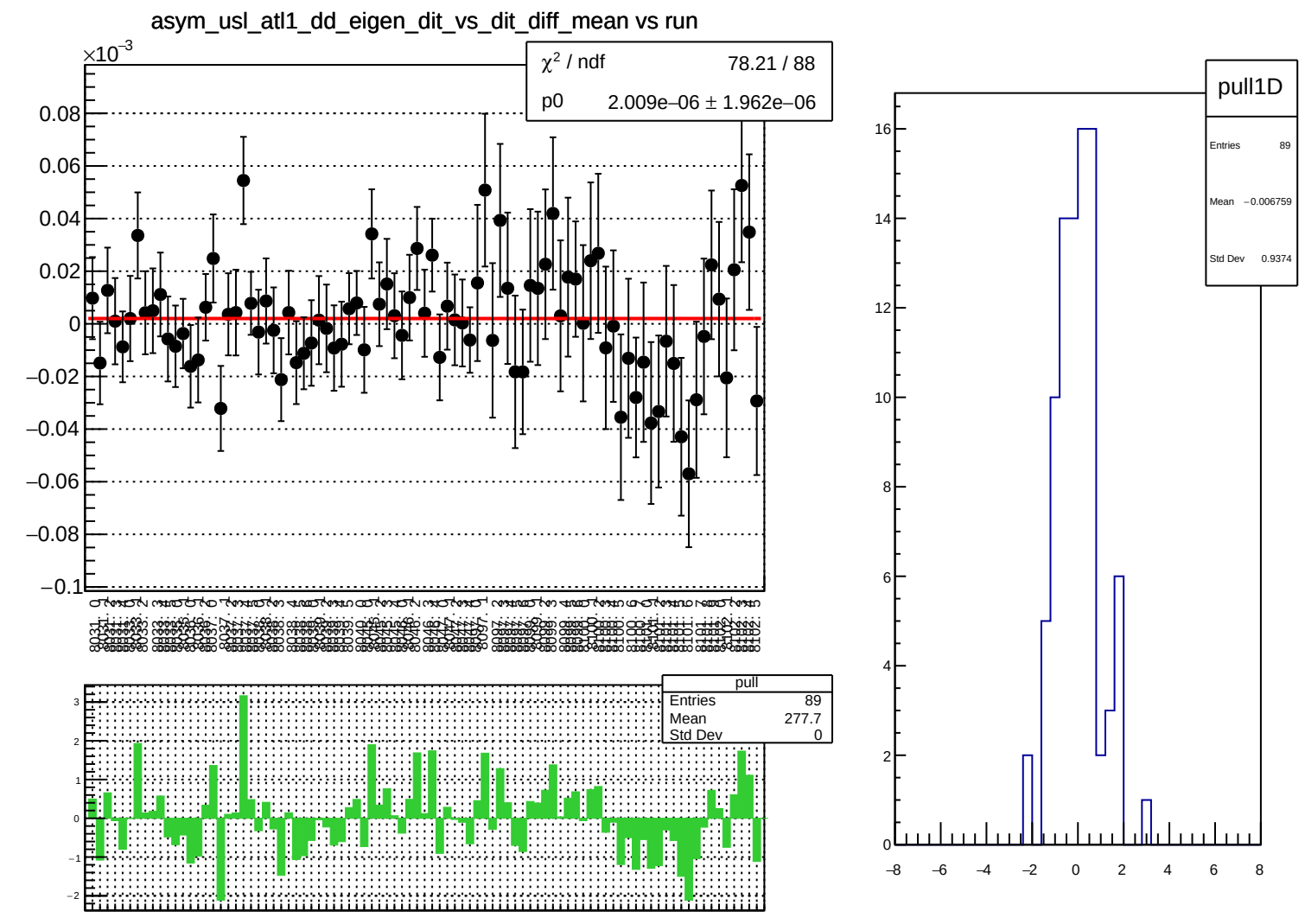

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.099e+06 / 88
p0 4.773e−11 ± 5.926e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

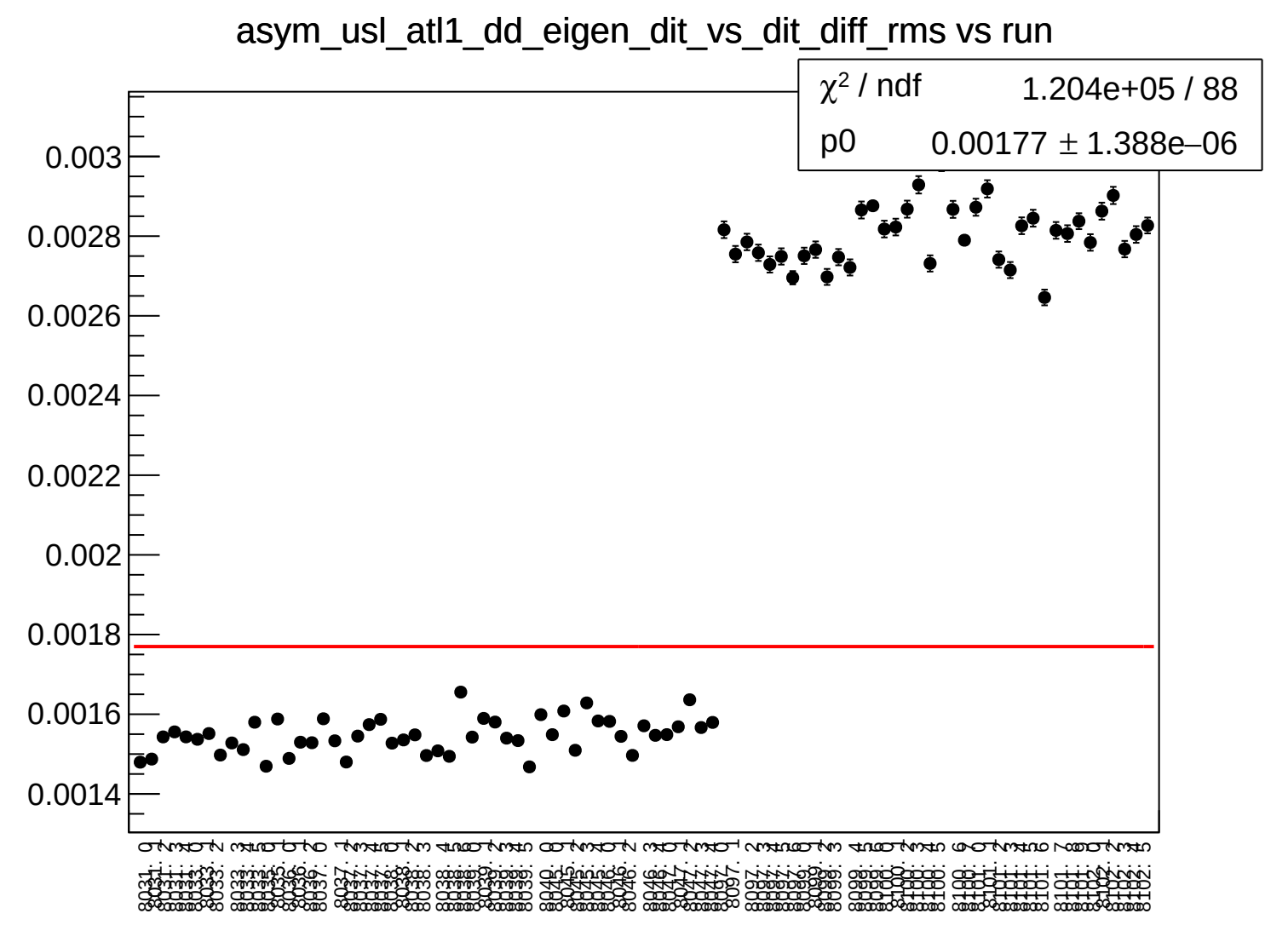

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 83.81 / 88
p0 −0.04402 ± 0.04347
pull
Entries 89
Mean 62.68
Std Dev 24.31
pull1D
Entries 89
Mean −0.0535
Std Dev 0.9689

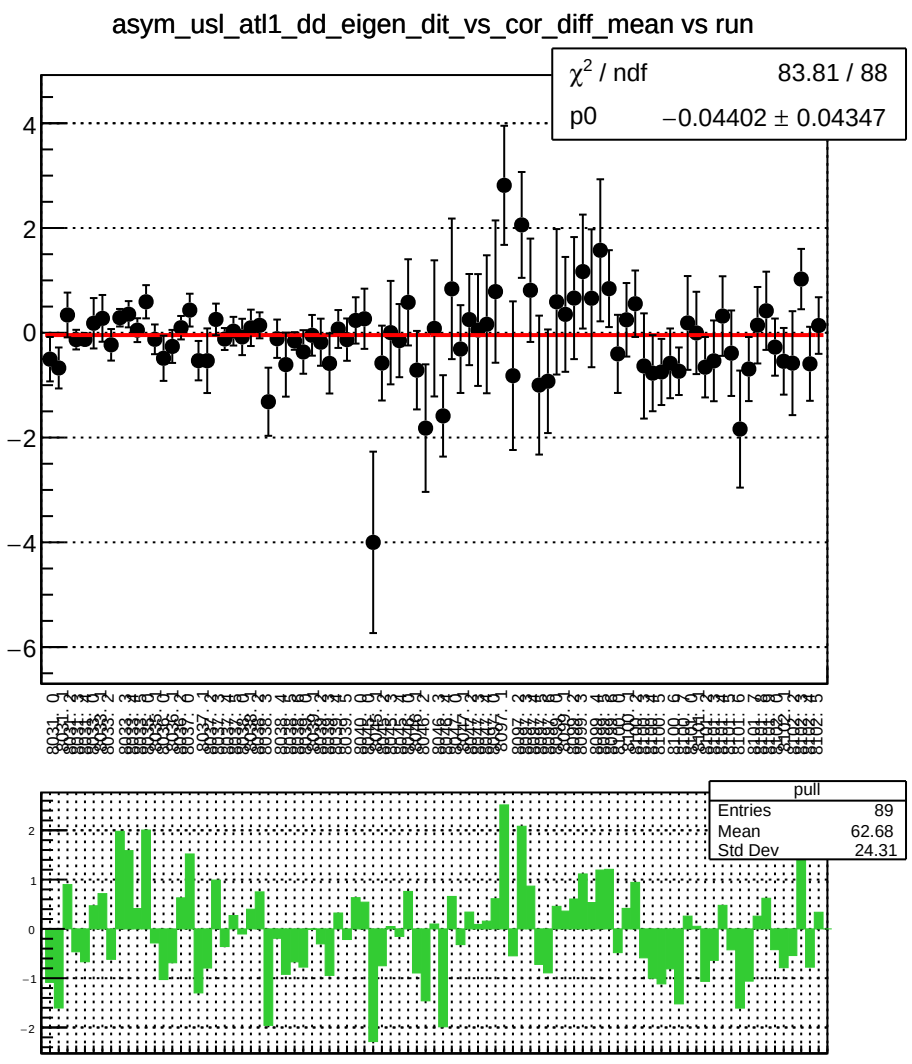

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.154e+05 / 88
p0 34.12 ± 0.03074
180
160
140
120
100
80
60
40
20

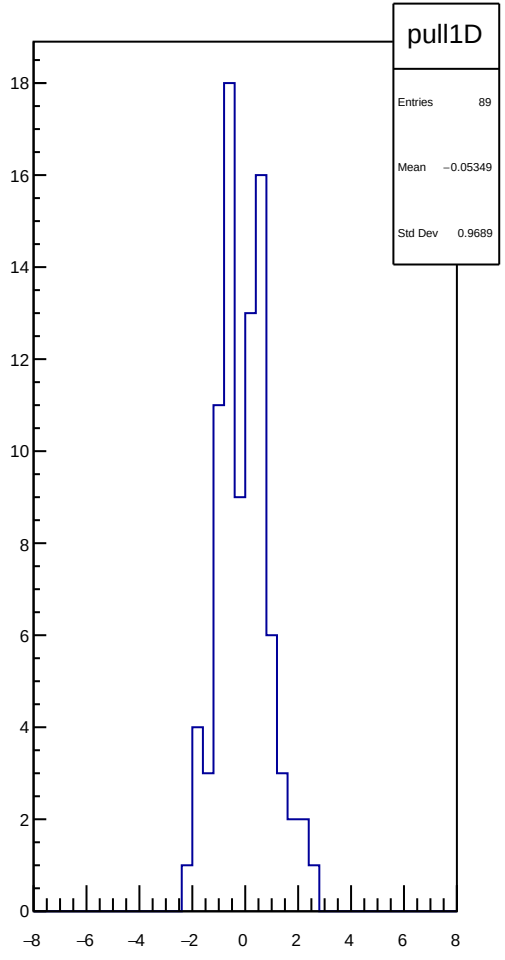

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.81 / 88
p0 −0.04402 ± 0.04347
pull
Entries 89
Mean 62.68
Std Dev 24.31
pull1D
Entries 89
Mean −0.0535
Std Dev 0.9689

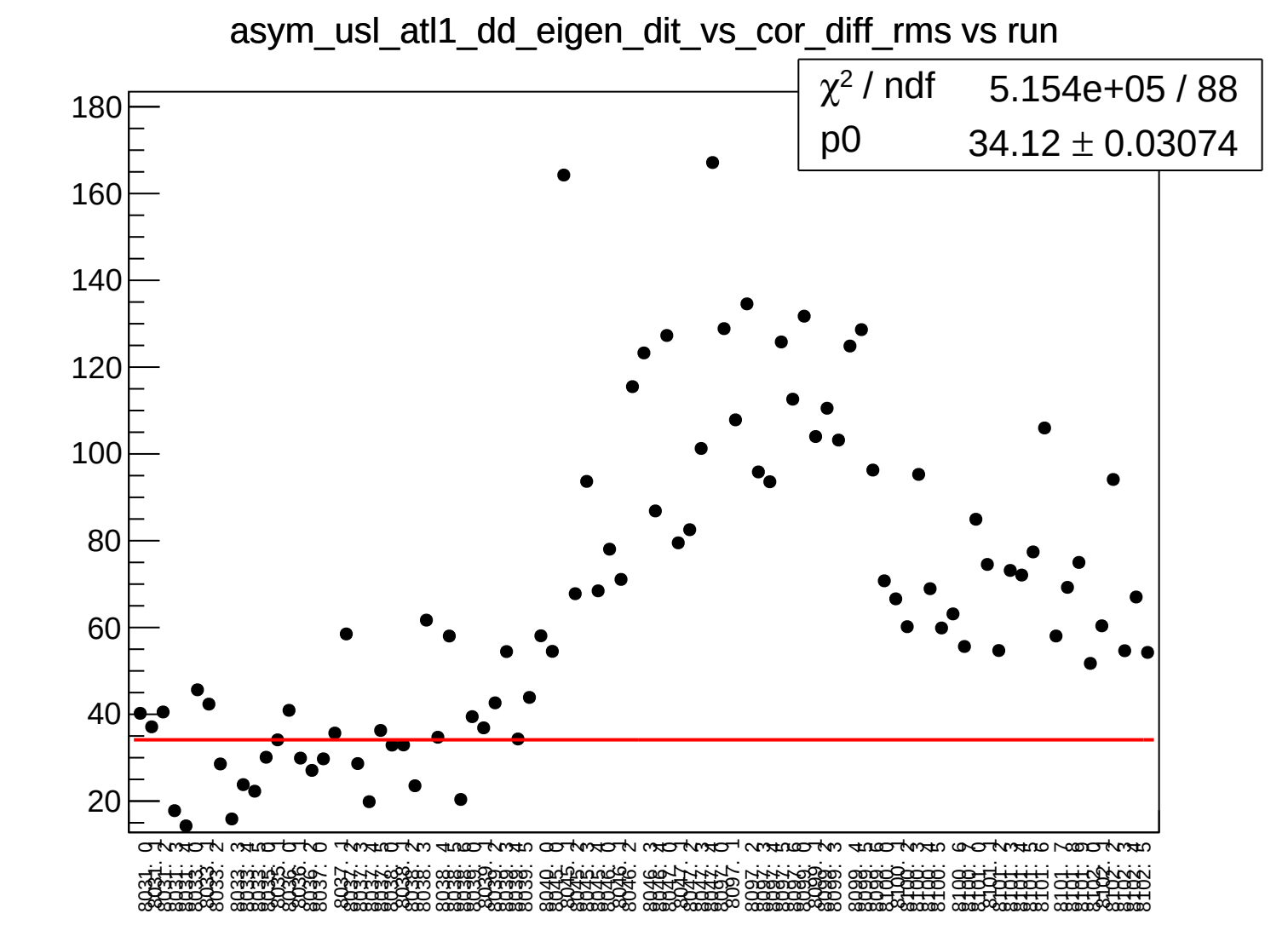

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.154e+05 / 88
p0 34.12 ± 0.03074
180
160
140
120
100
80
60
40
20

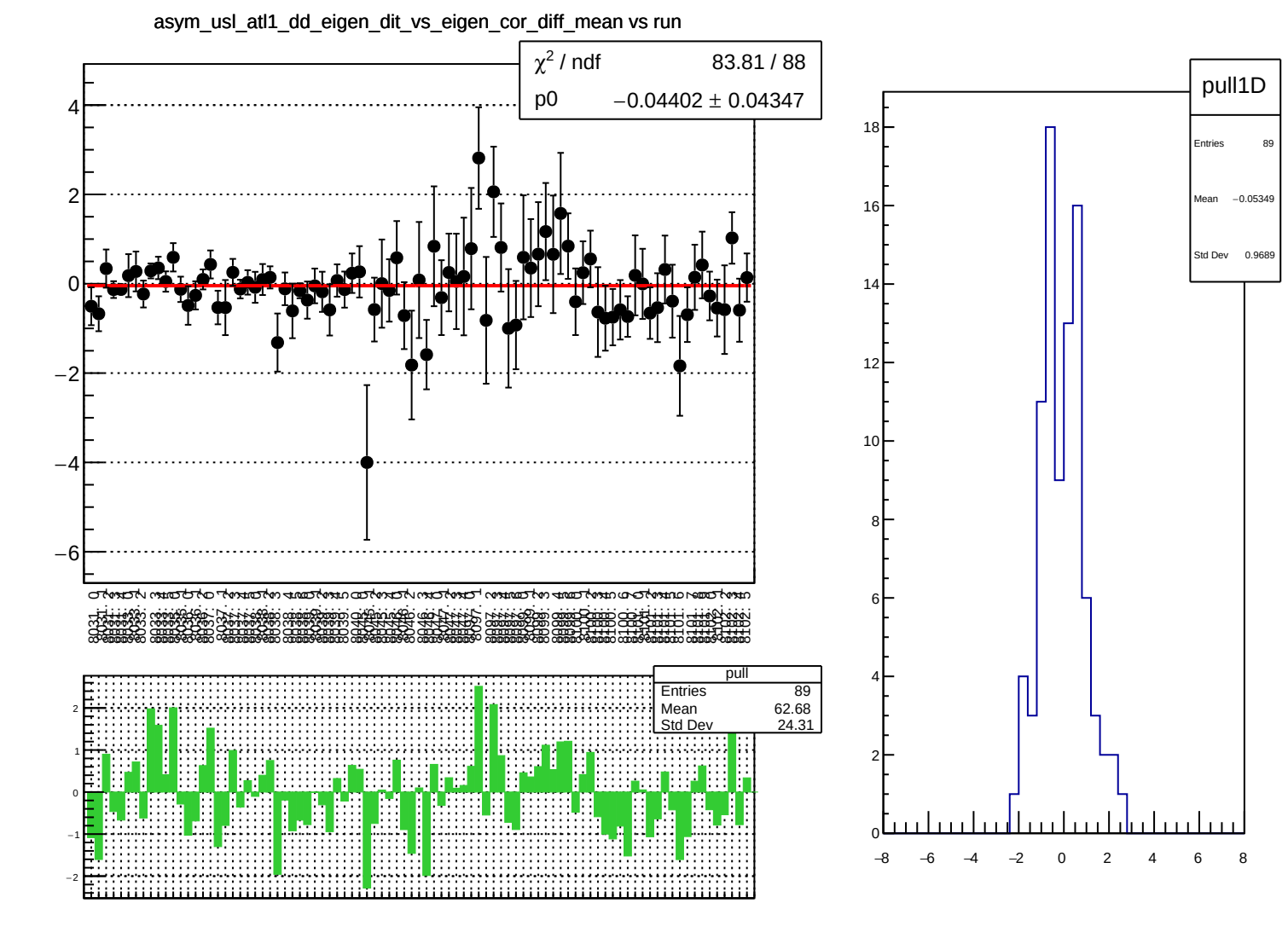

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 78.21 / 88
p0 2.009e−06 ± 1.962e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 89
Mean 277.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.006759
Std Dev 0.9374
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

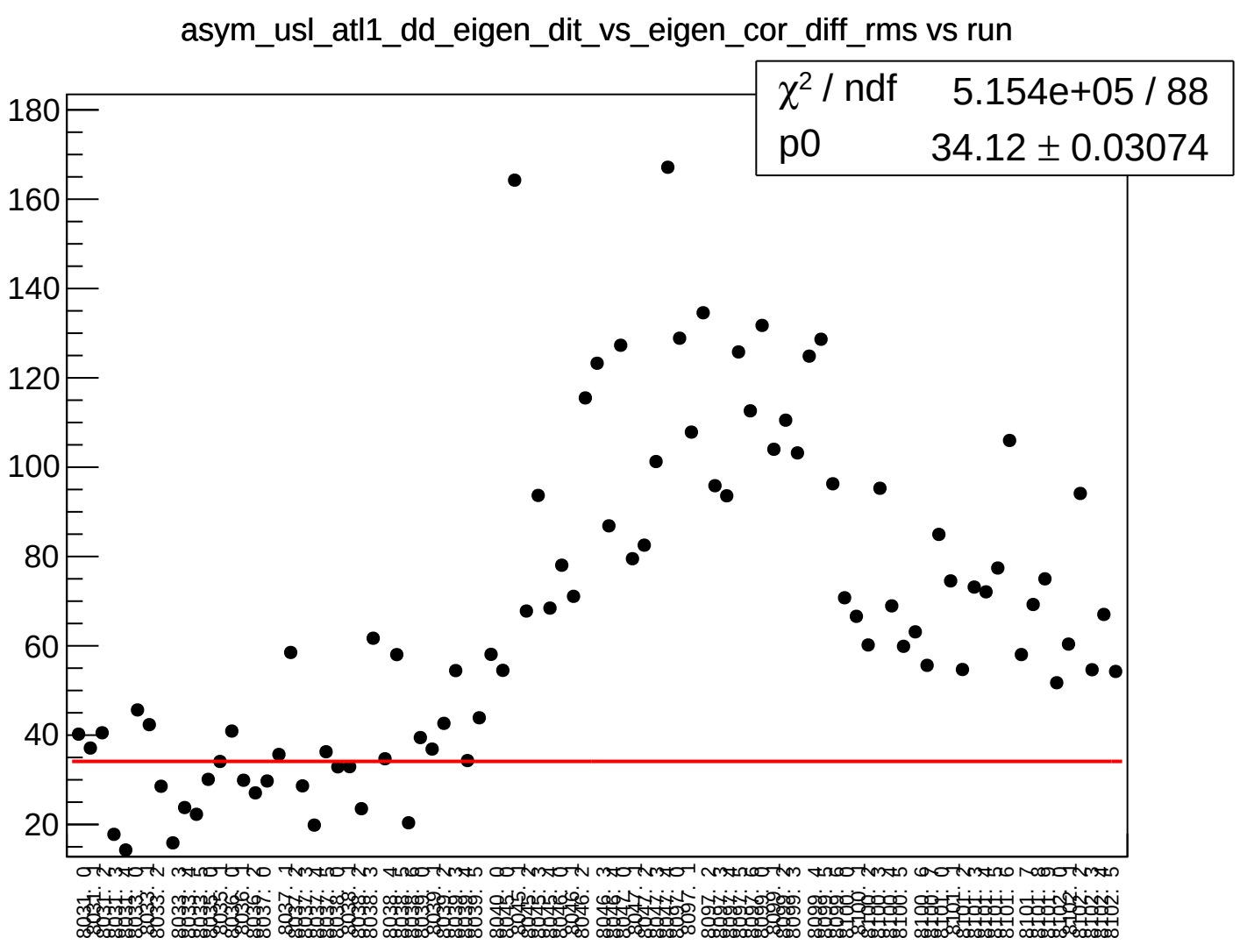

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.204e+05 / 88
p0 0.00177 ± 1.388e−06
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014

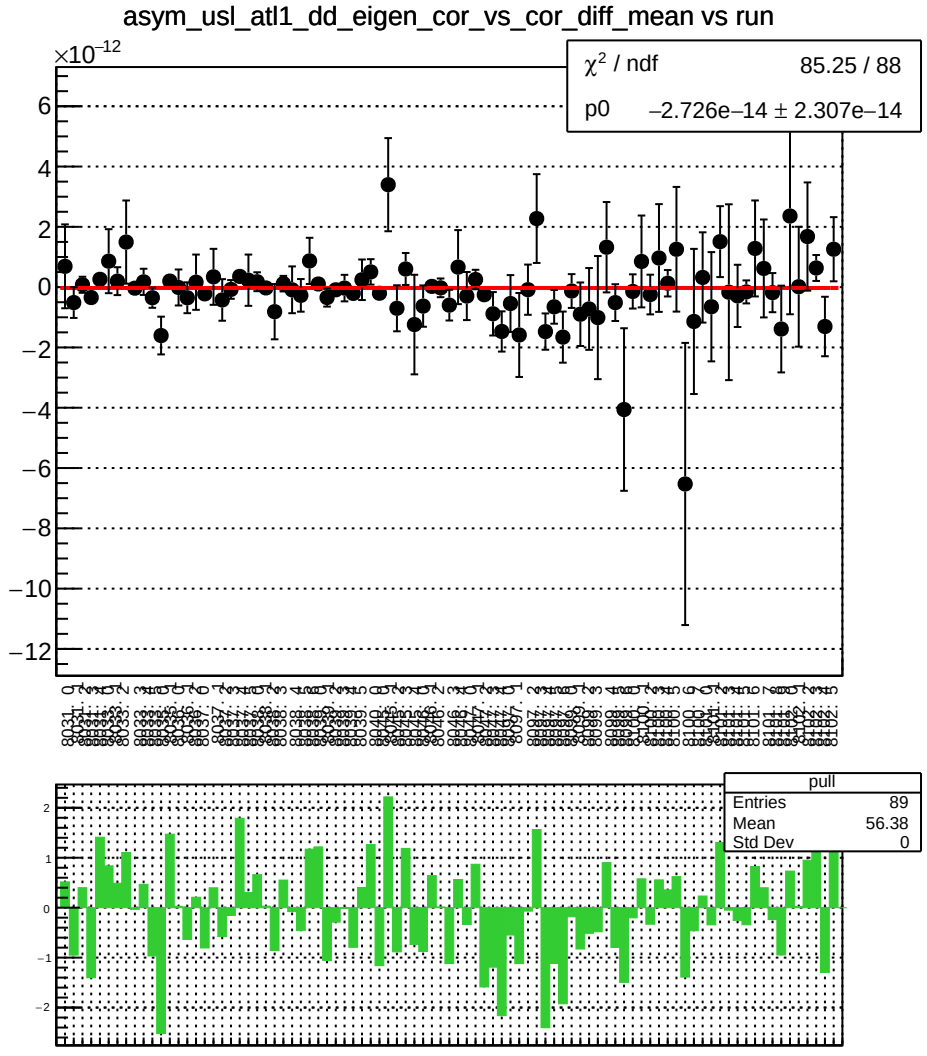

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.81 / 88
p0 −0.04402 ± 0.04347
pull
Entries 89
Mean 62.68
Std Dev 24.31

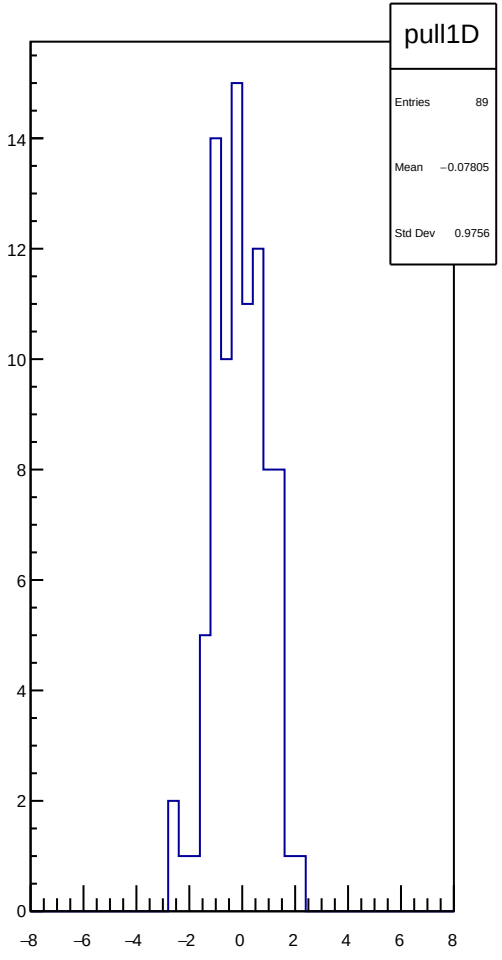

pull1D
Entries 89
Mean −0.05349
Std Dev 0.9689

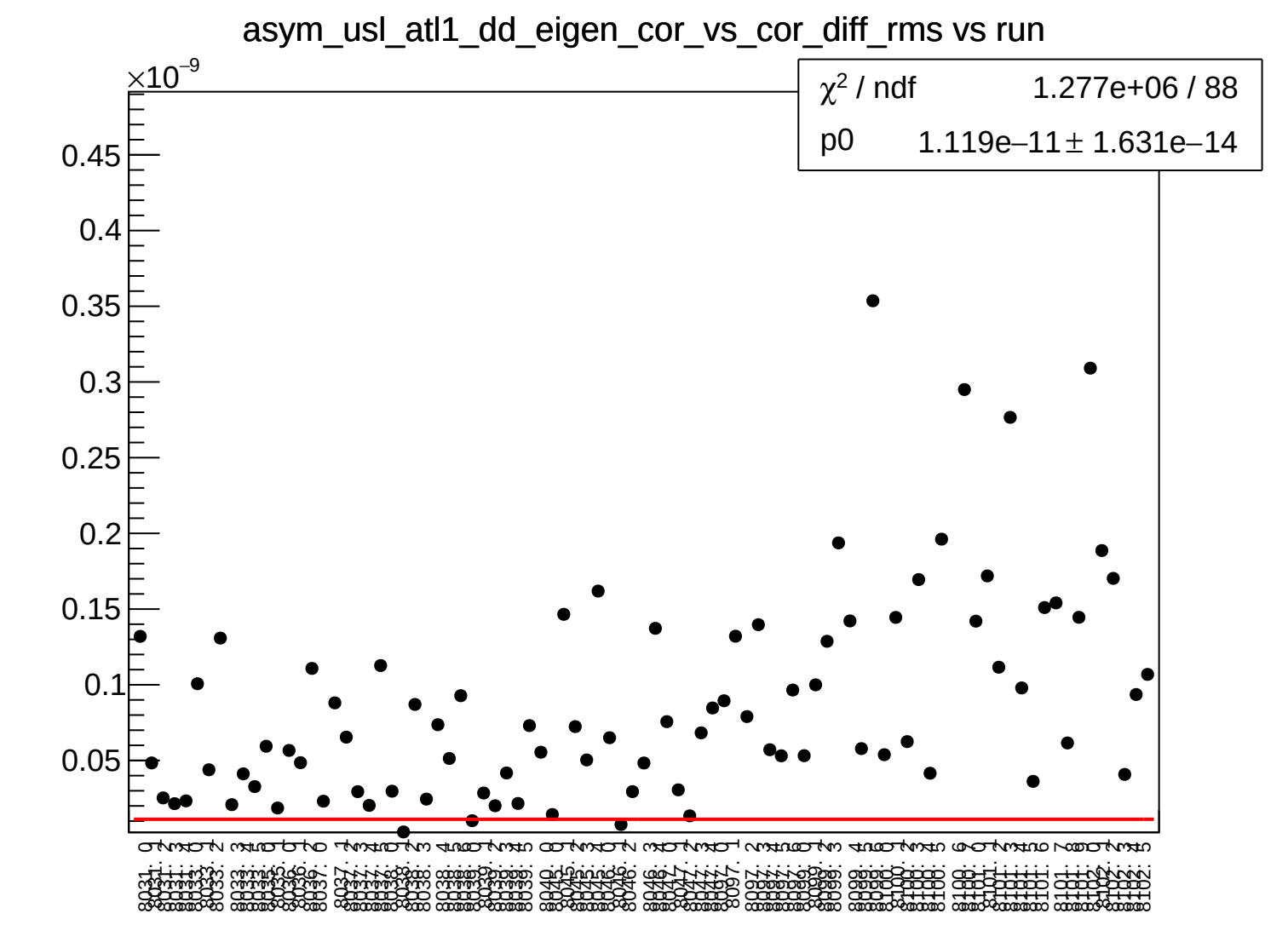

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.154e+05 / 88
p0 34.12 ± 0.03074
180
160
140
120
100
80
60
40
20

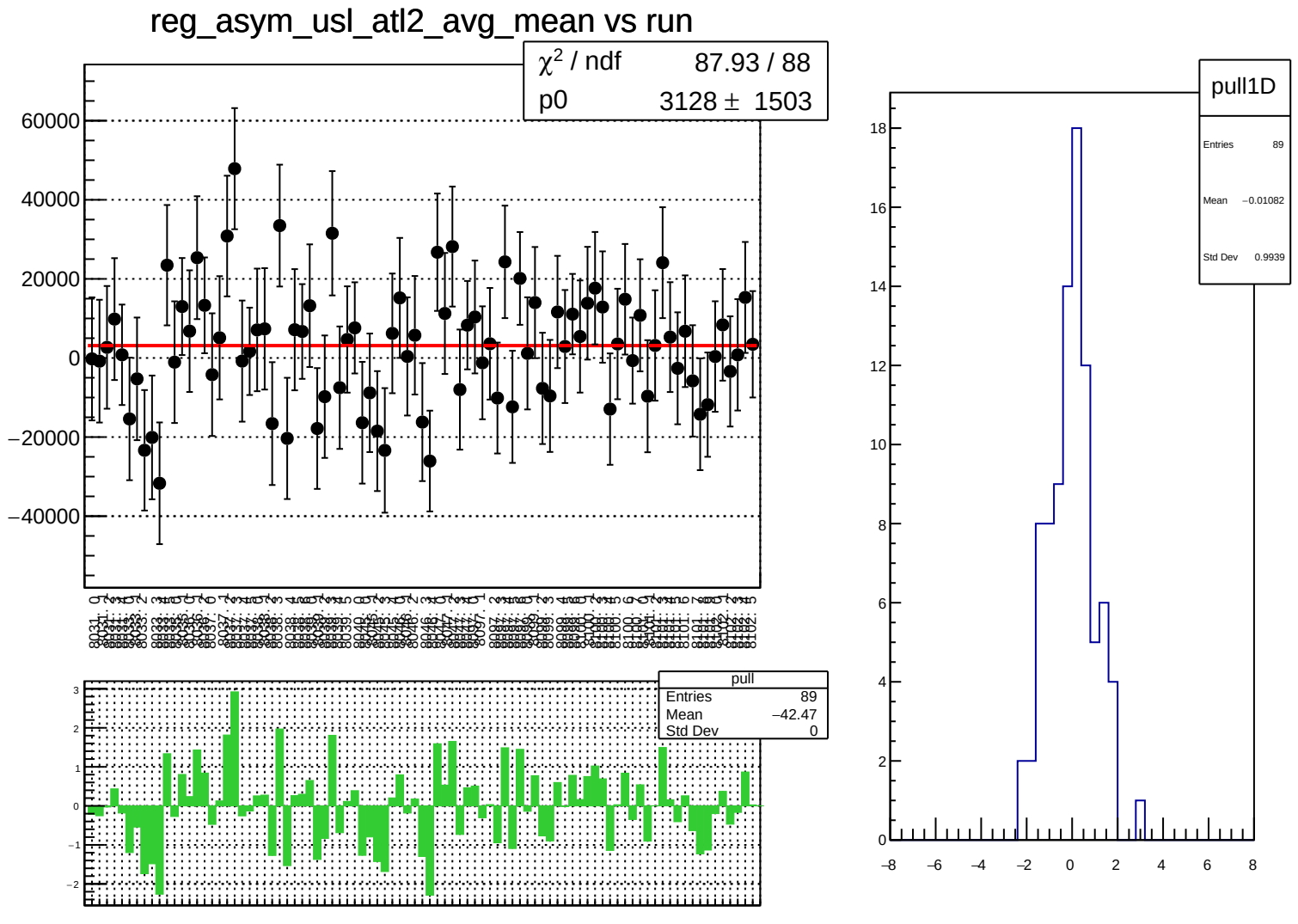

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.81 / 88
p0 −0.04402 ± 0.04347
pull
Entries 89
Mean 62.68
Std Dev 24.31
pull1D
Entries 89
Mean −0.05349
Std Dev 0.9689

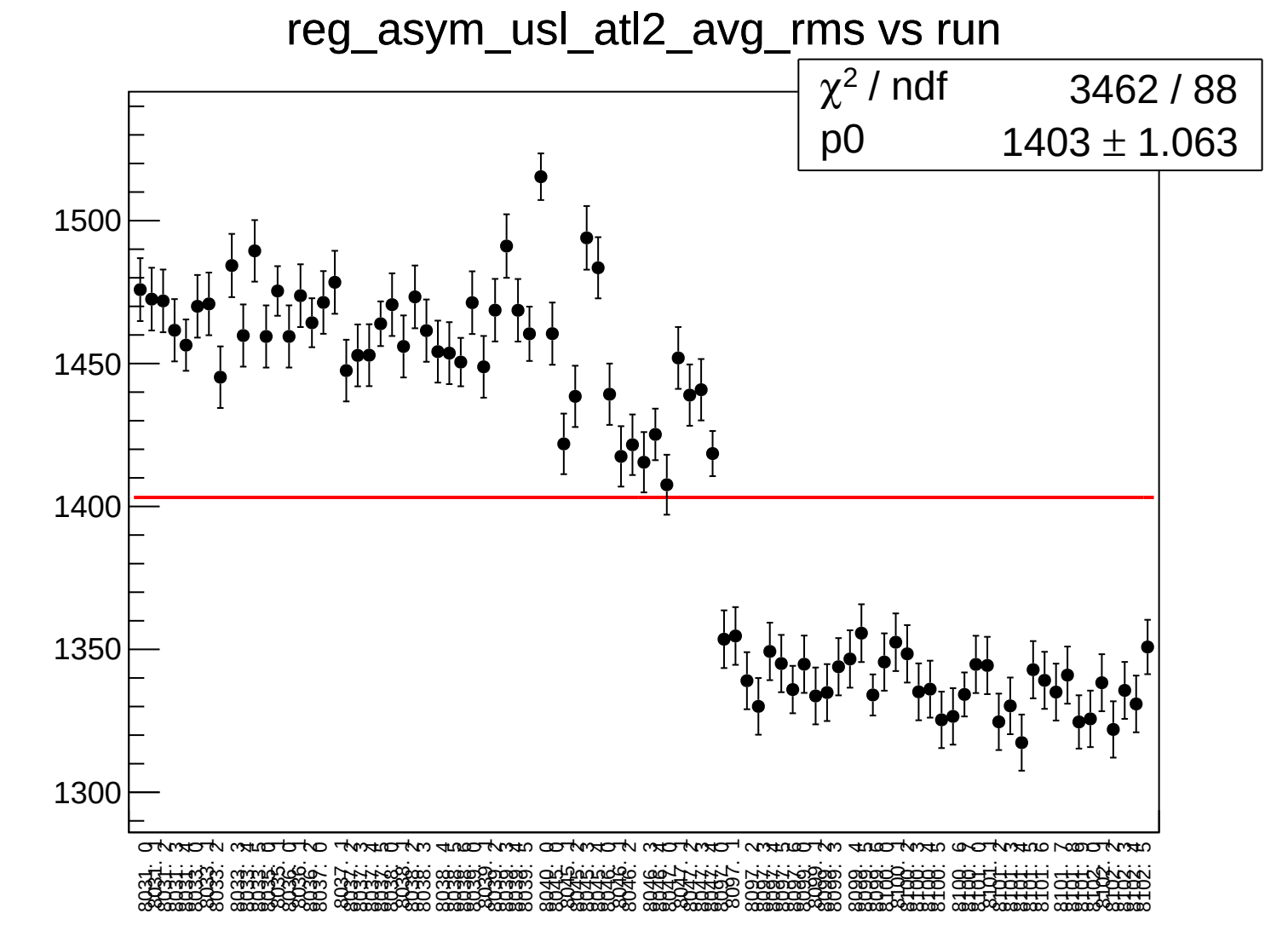

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.154e+05 / 88
p0 34.12 ± 0.03074
180
160
140
120
100
80
60
40
20

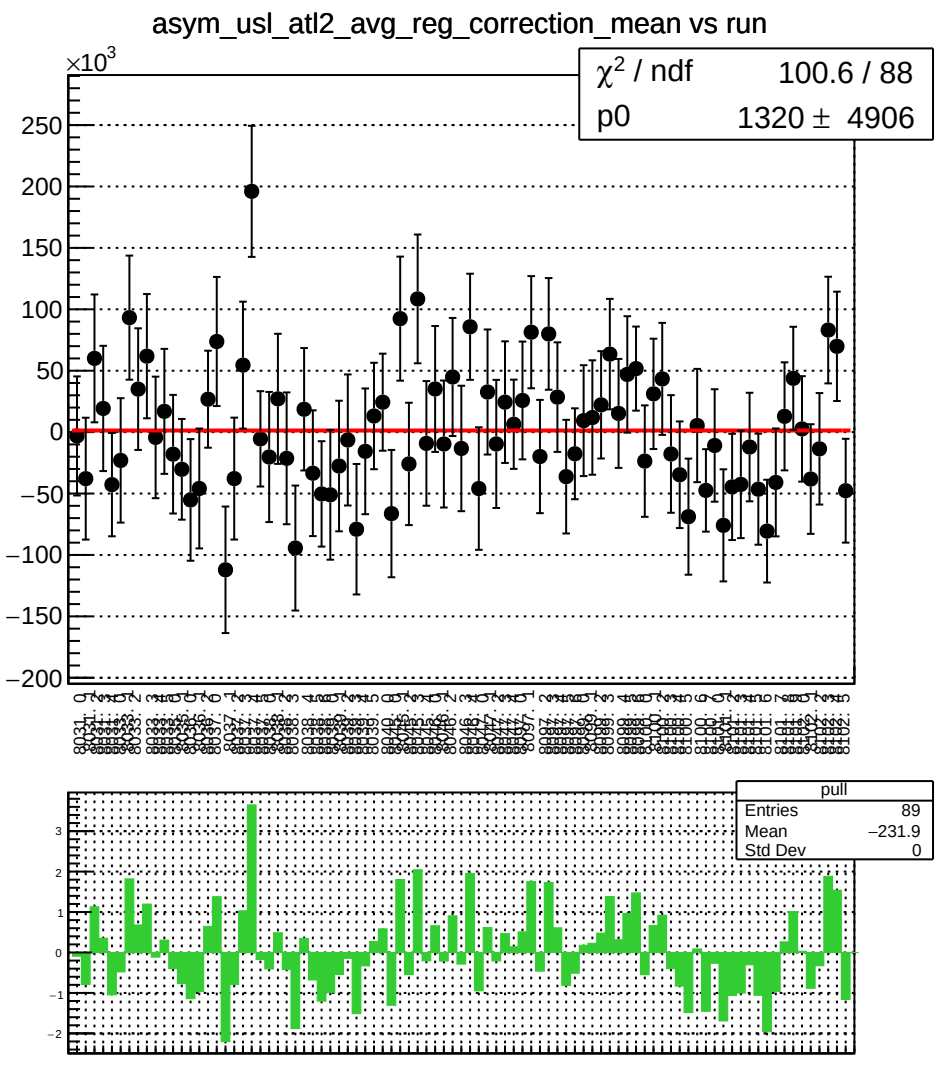

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.25 / 88
p0 −2.726e−14 ± 2.307e−14
pull
Entries 89
Mean 56.38
Std Dev 0

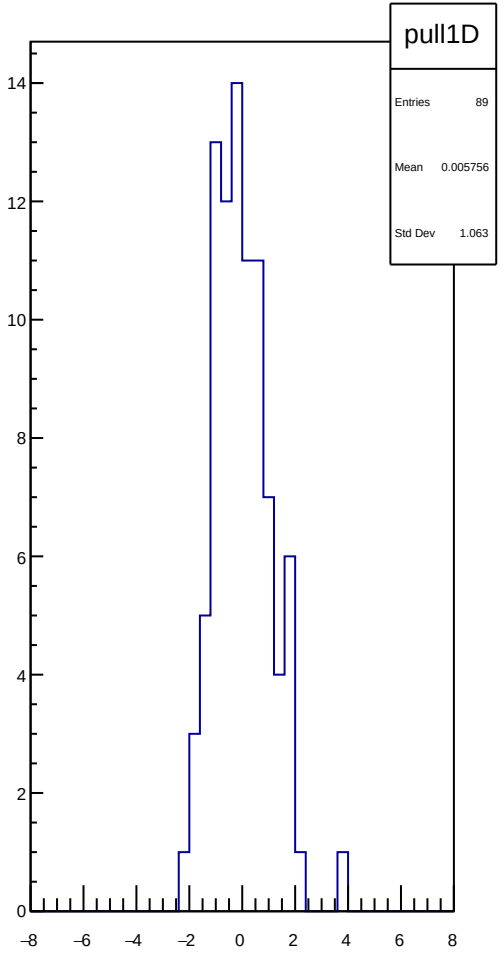

pull1D
Entries 89
Mean −0.07805
Std Dev 0.9756

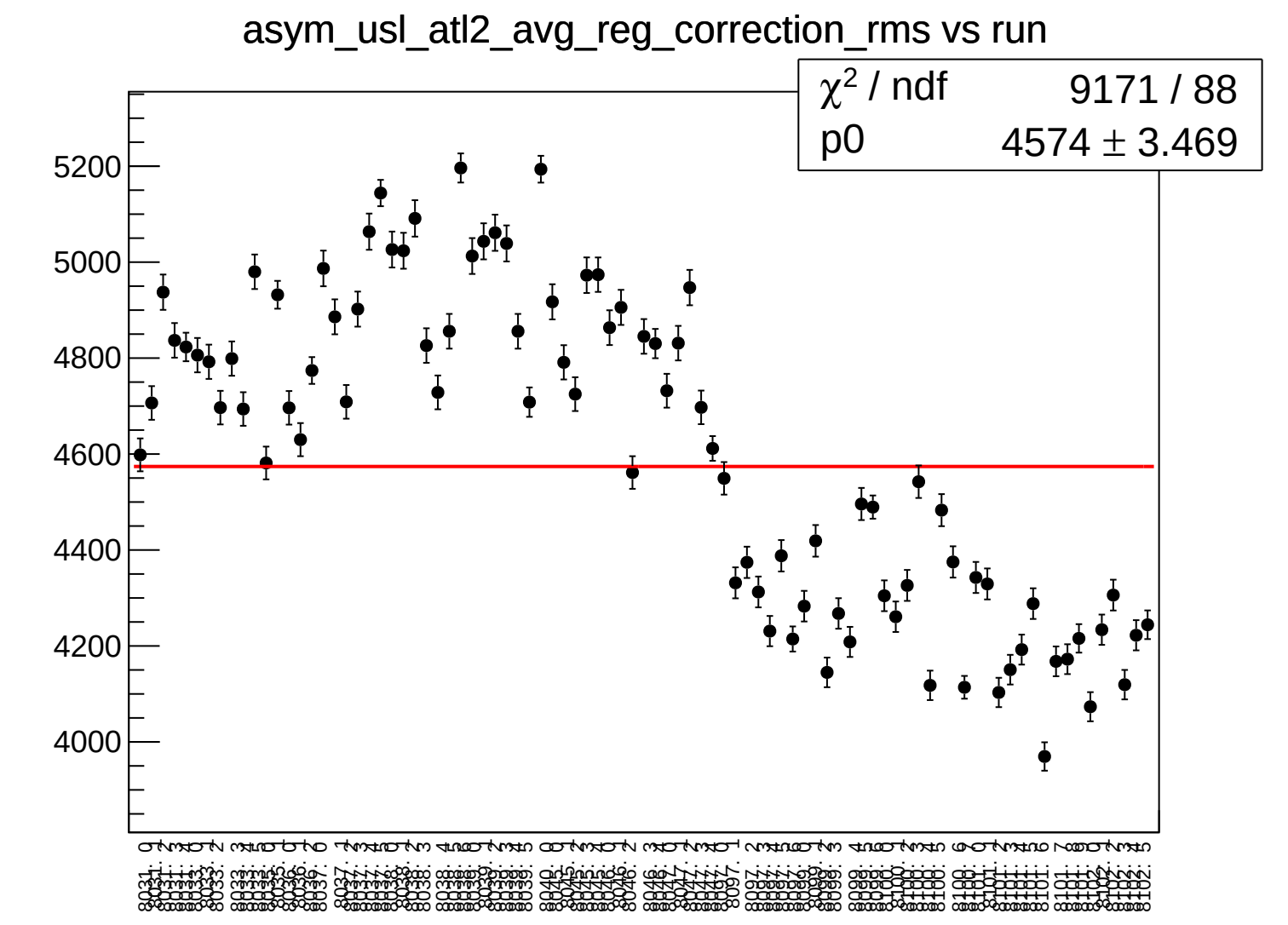

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.277e+06 / 88
p0 1.119e−11 ± 1.631e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

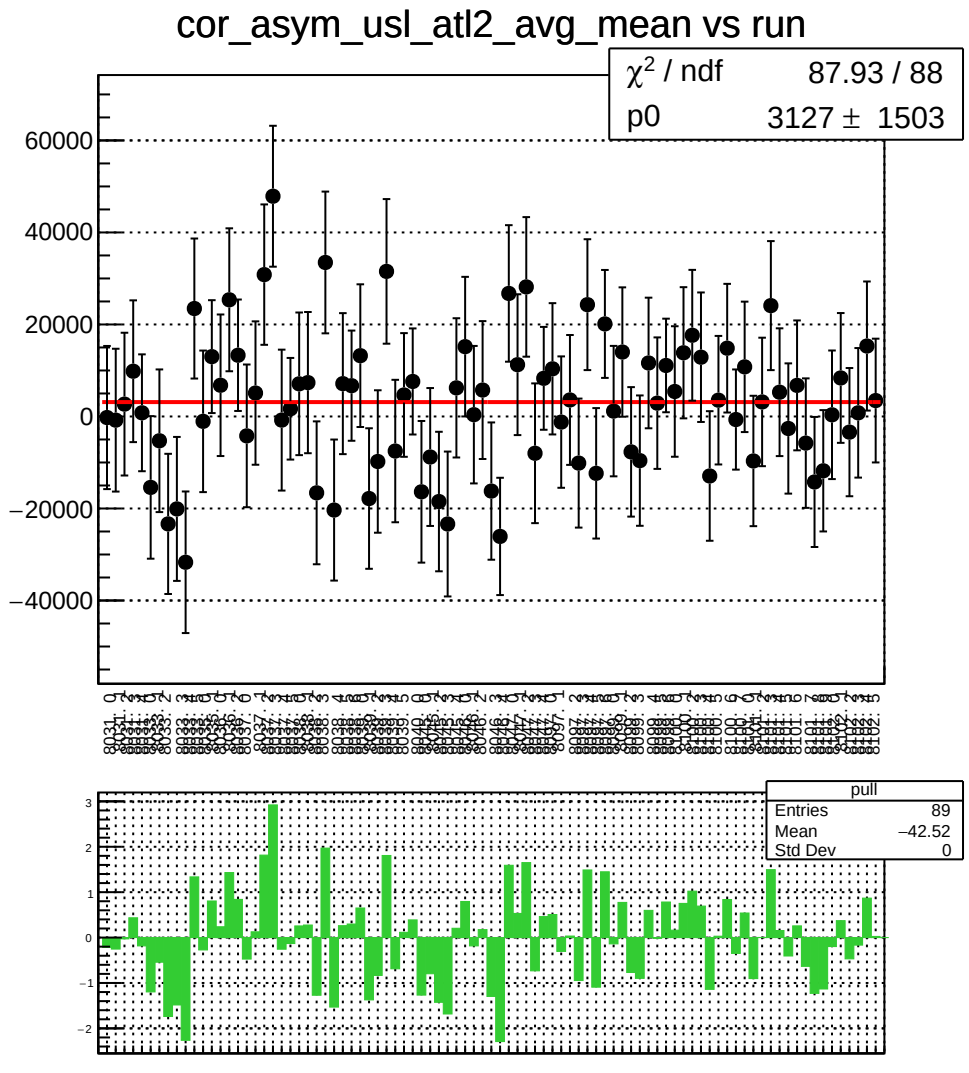

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 87.93 / 88
p0 3128 ± 1503
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −42.47
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.01082
Std Dev 0.9939
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

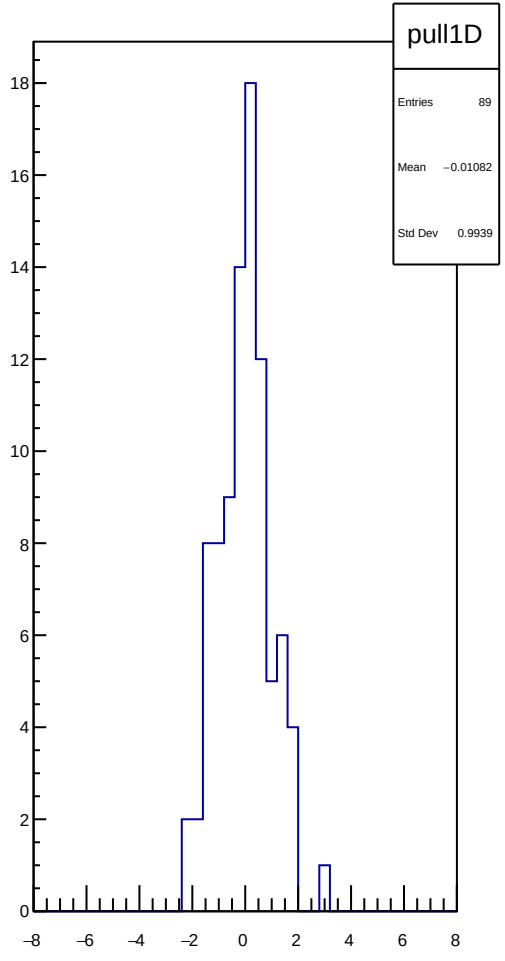

reg_asym_usl_atl2_avg_rms vs run
χ² / ndf 3462 / 88
p0 1403 ± 1.063
1500
1450
1400
1350
1300

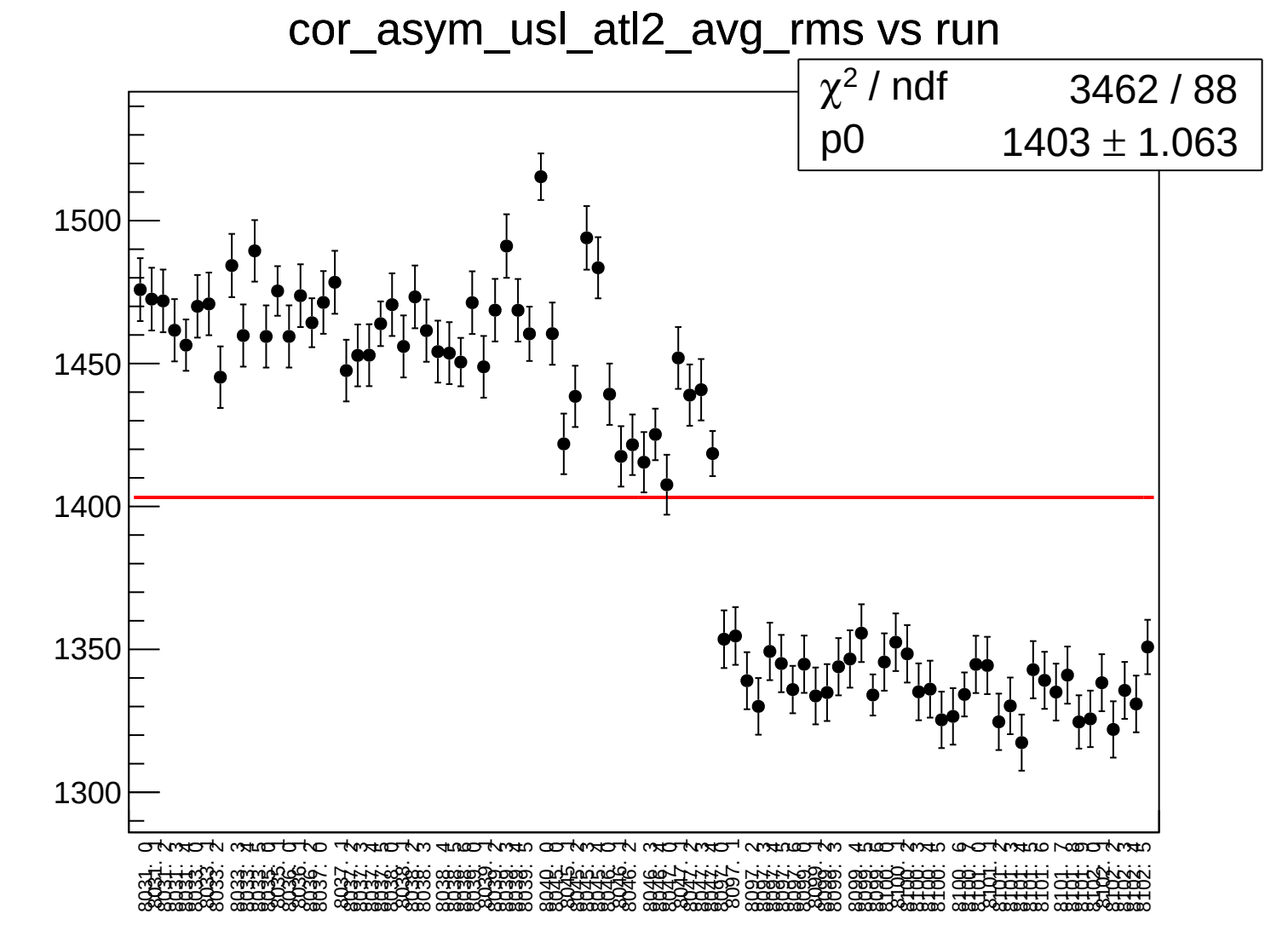

asym_usl_atl2_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 100.6 / 88
p0 1320 ± 4906
pull
Entries 89
Mean −231.9
Std Dev 0

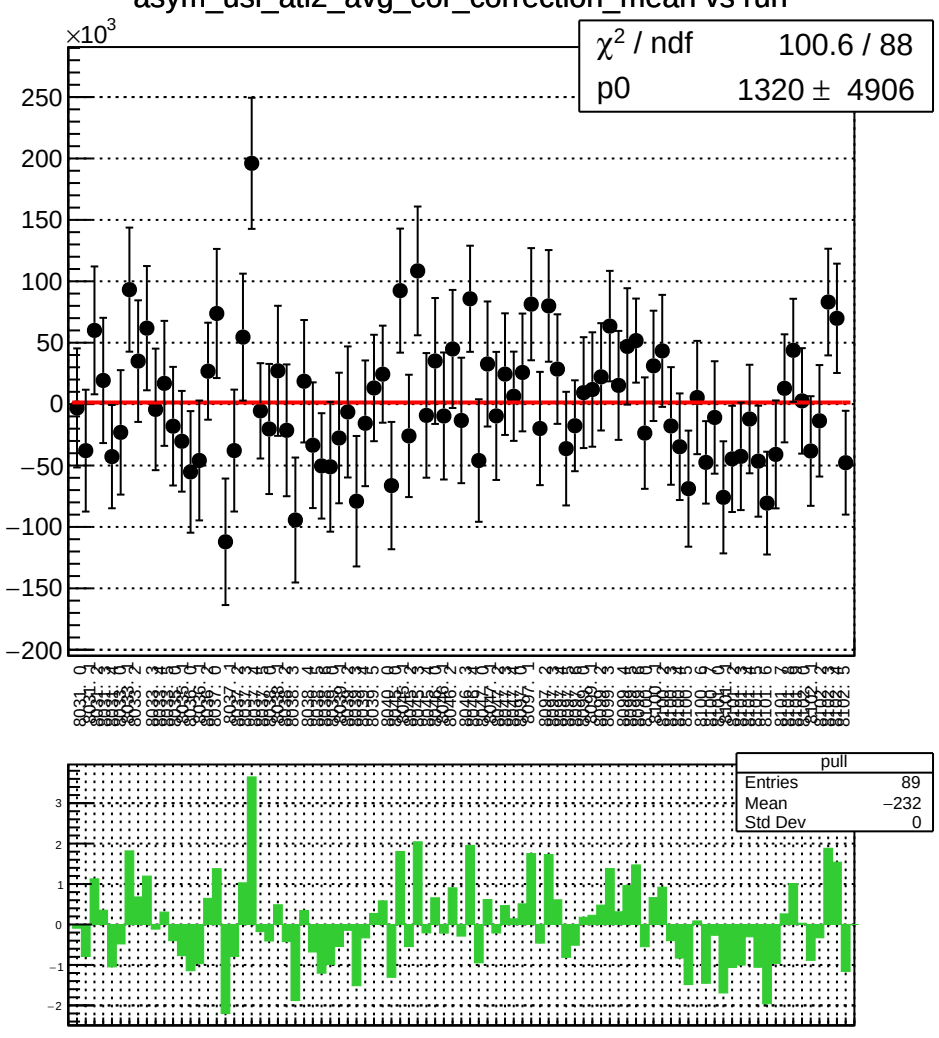

pull1D
Entries 89
Mean 0.005756
Std Dev 1.063

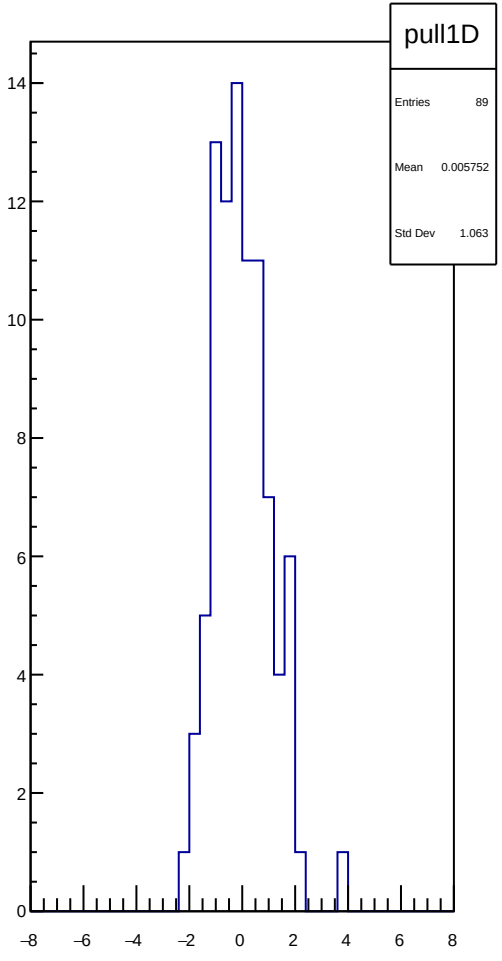

asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 9171 / 88
p0 4574 ± 3.469
5200
5000
4800
4600
4400
4200
4000

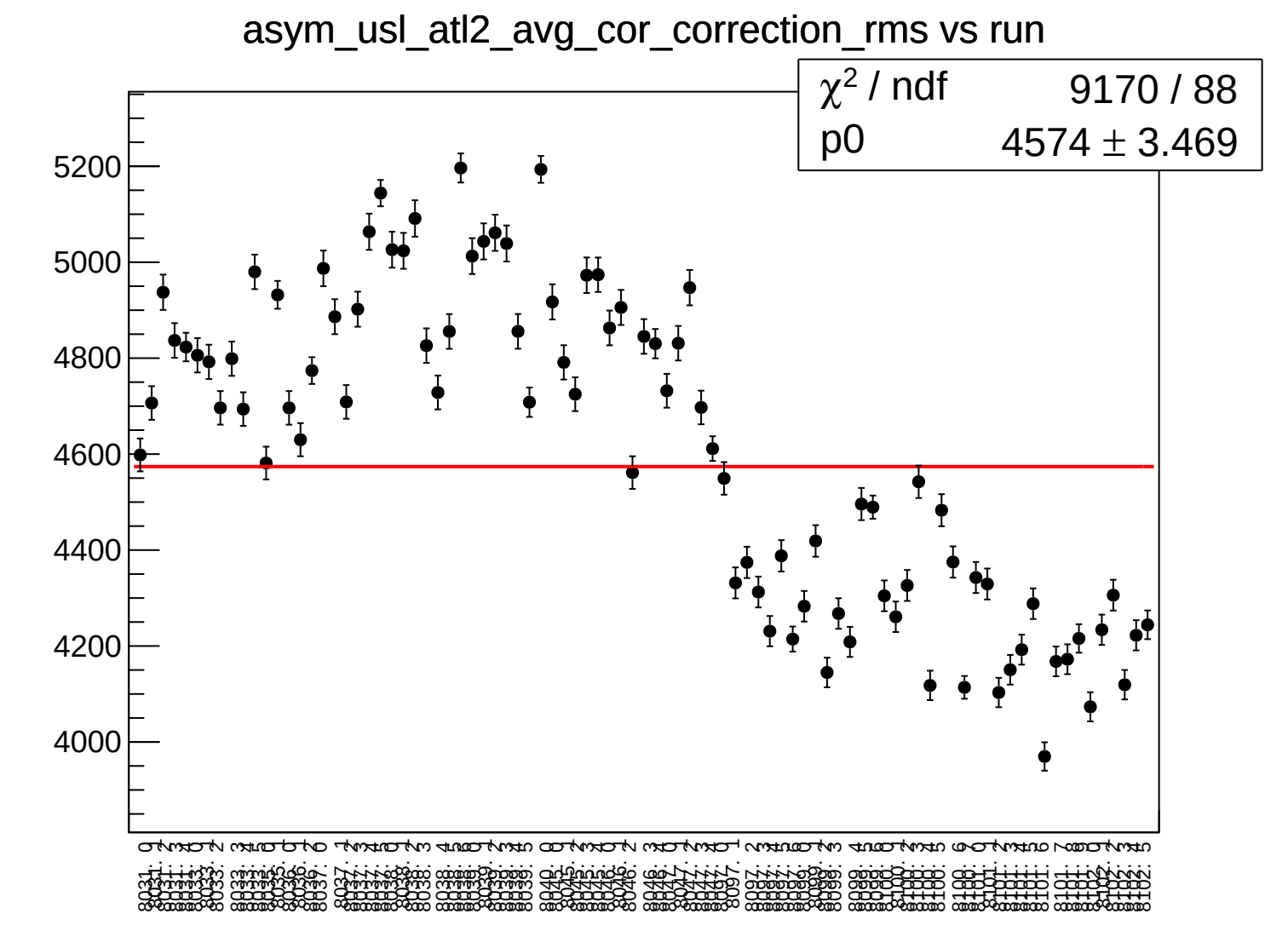

cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 87.93 / 88
p0 3127 ± 1503
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −42.52
Std Dev 0
3
2
1
0
−1
−2

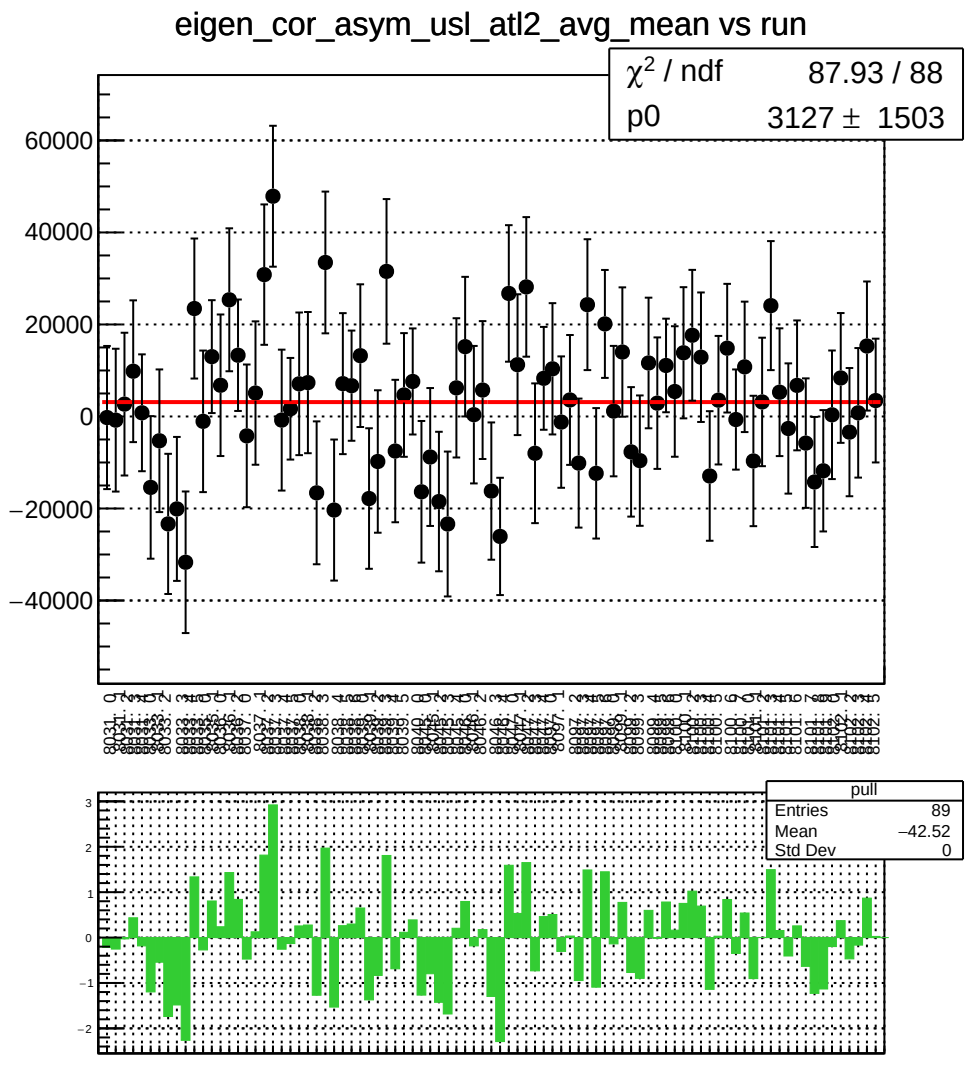

pull1D
Entries 89
Mean −0.01082
Std Dev 0.9939
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

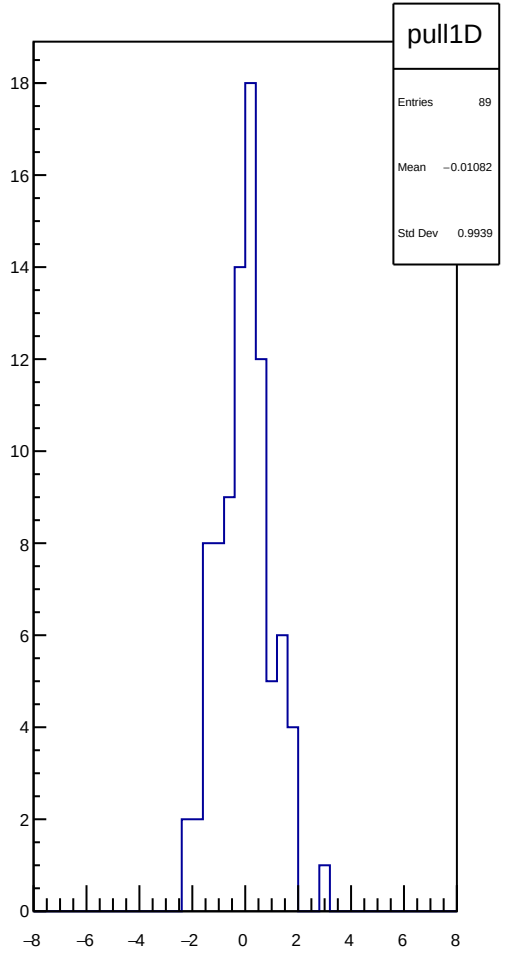

cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 3462 / 88
p0 1403 ± 1.063
1500
1450
1400
1350
1300

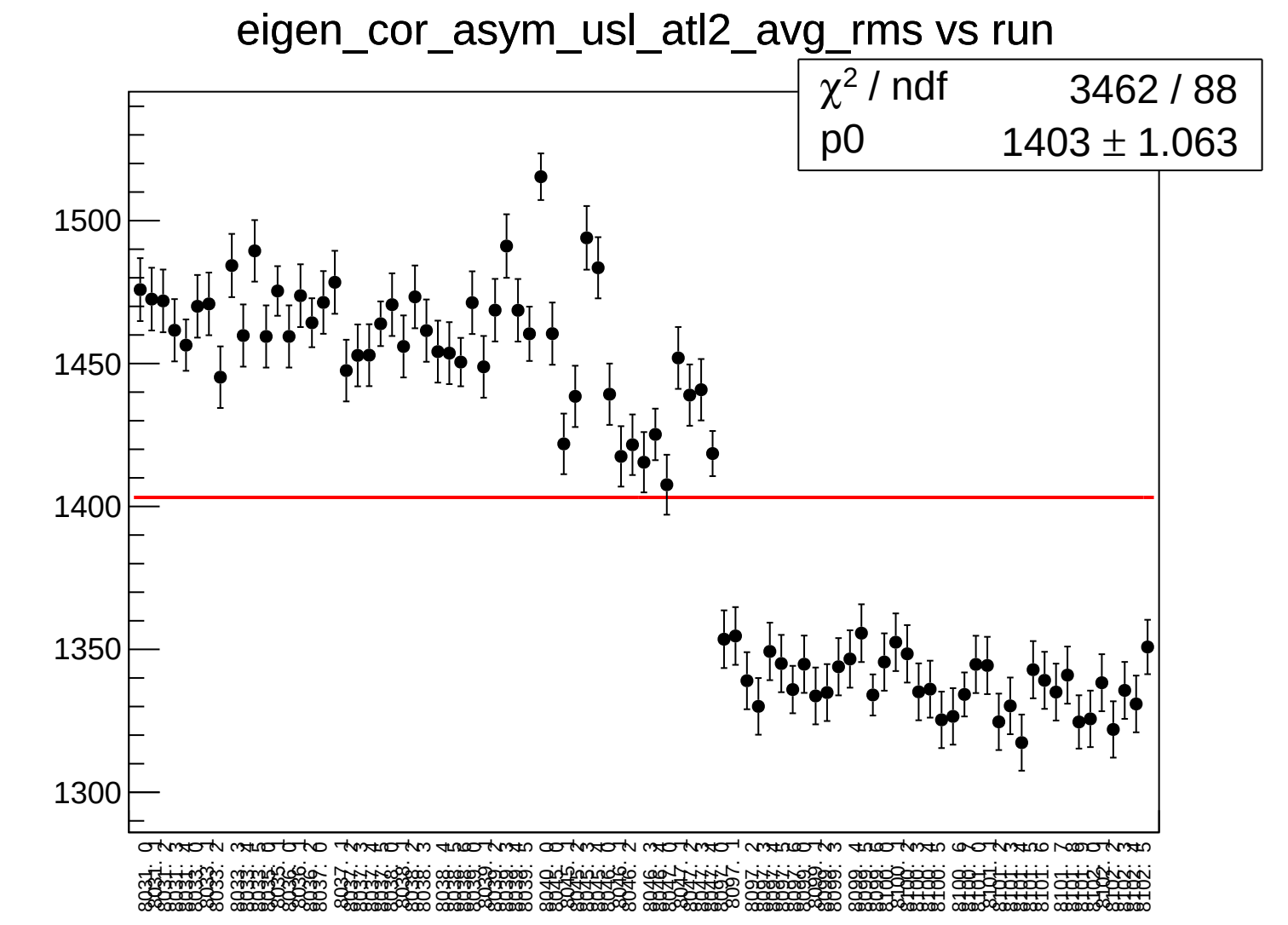

asym_usl_atl2_avg_cor_correction_mean vs run
χ² / ndf 100.6 / 88
p0 1320 ± 4906
×10³
pull
Entries 89
Mean −232
Std Dev 0

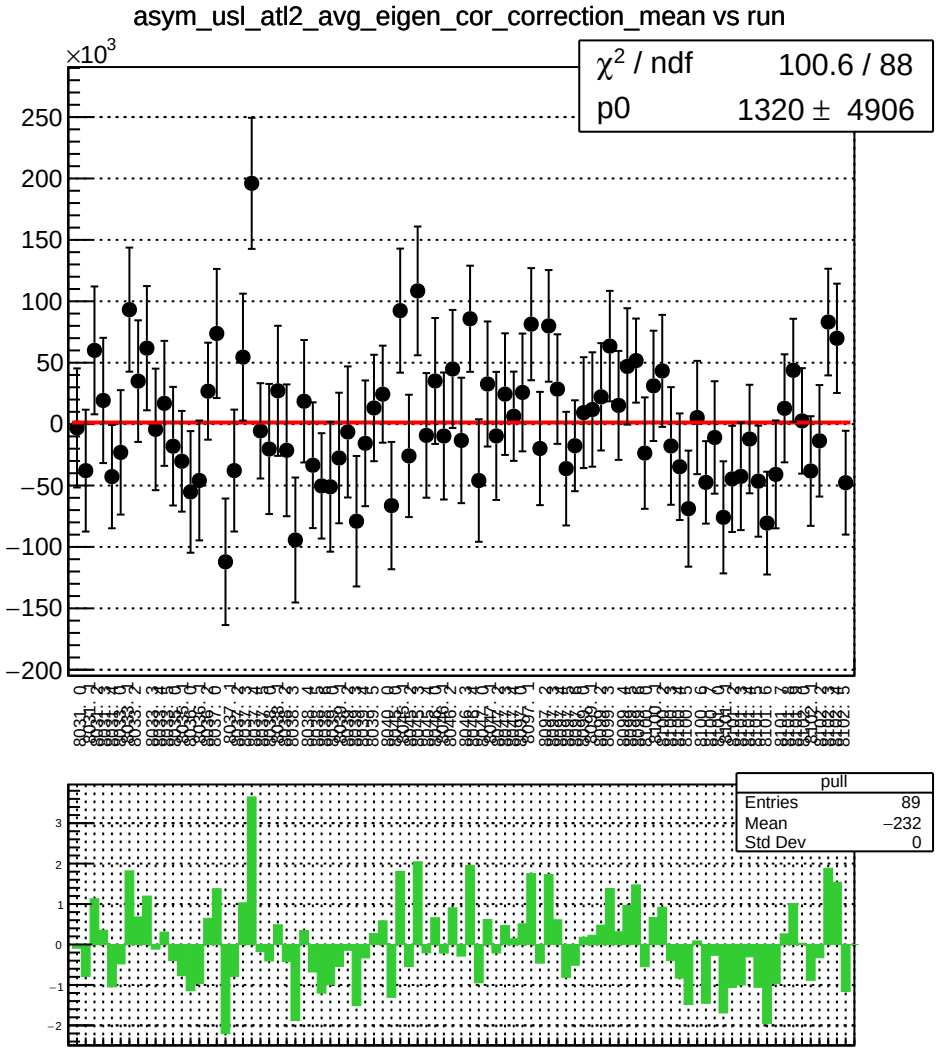

pull1D
Entries 89
Mean 0.005752
Std Dev 1.063

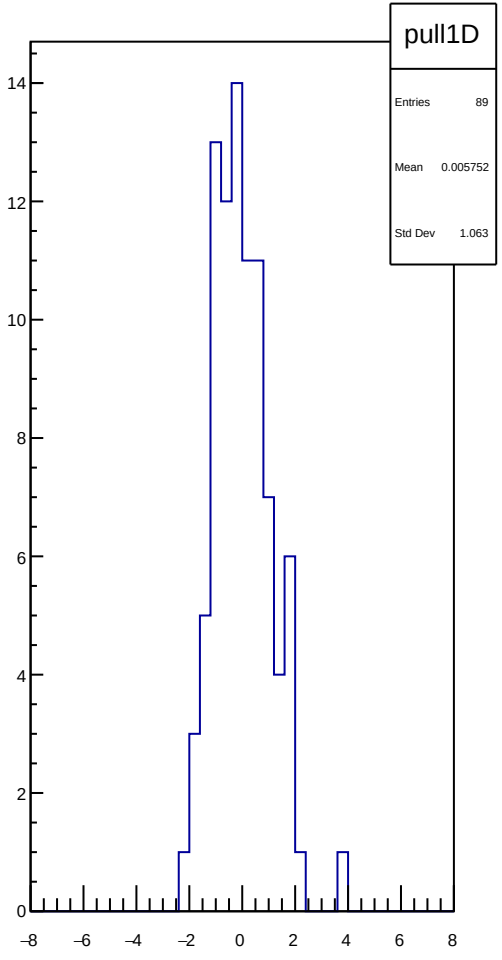

asym_usl_atl2_avg_cor_correction_rms vs run
χ² / ndf 9170 / 88
p0 4574 ± 3.469
5200
5000
4800
4600
4400
4200
4000

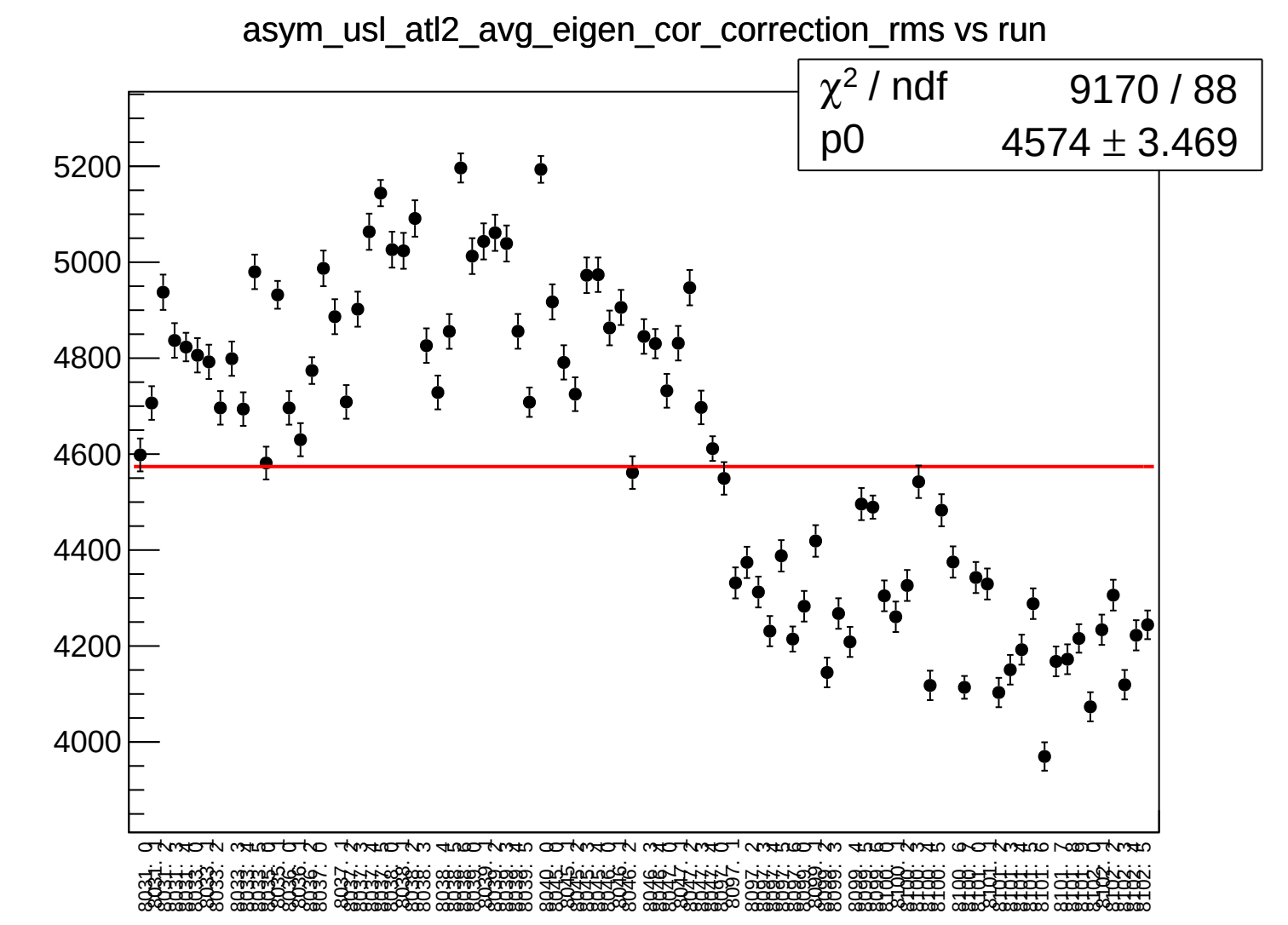

eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 87.93 / 88
p0 3127 ± 1503
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −42.52
Std Dev 0
3
2
1
0
−1
−2

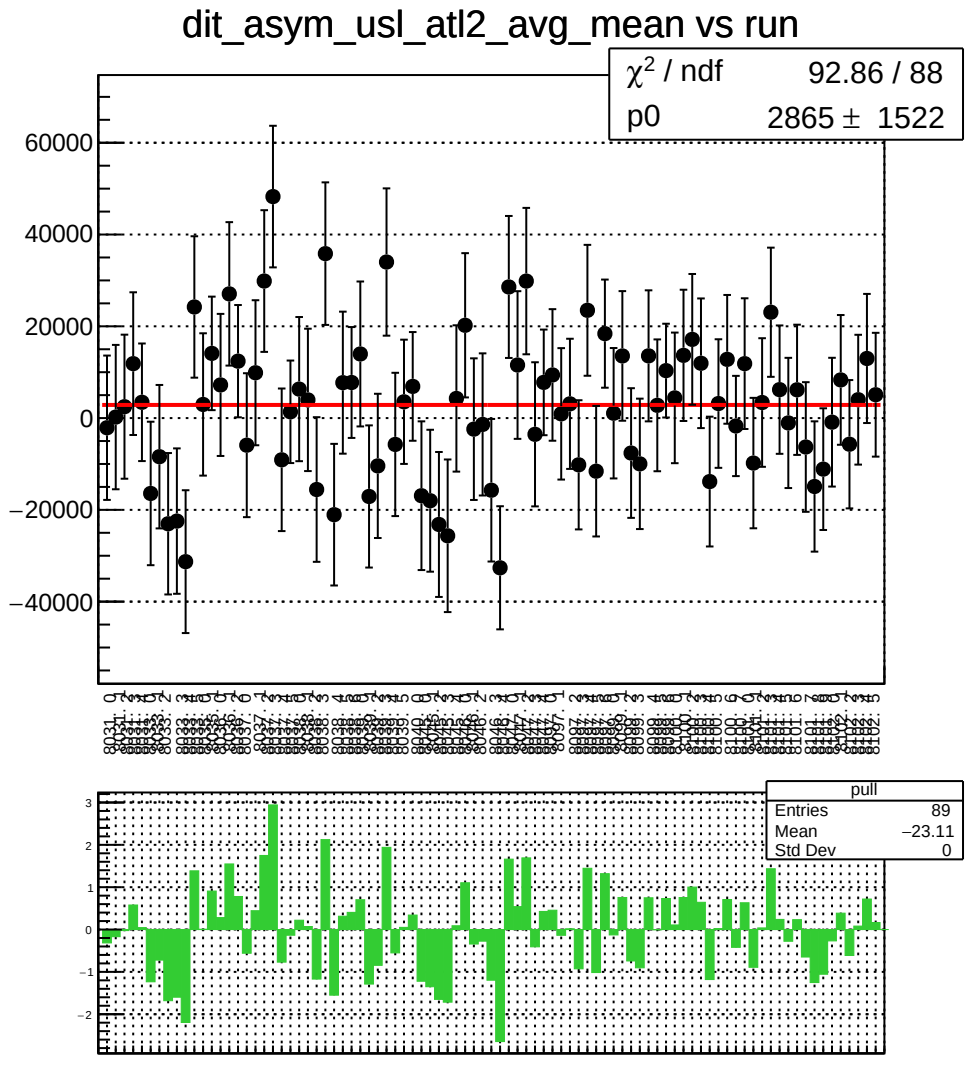

pull1D
Entries 89
Mean −0.01082
Std Dev 0.9939
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

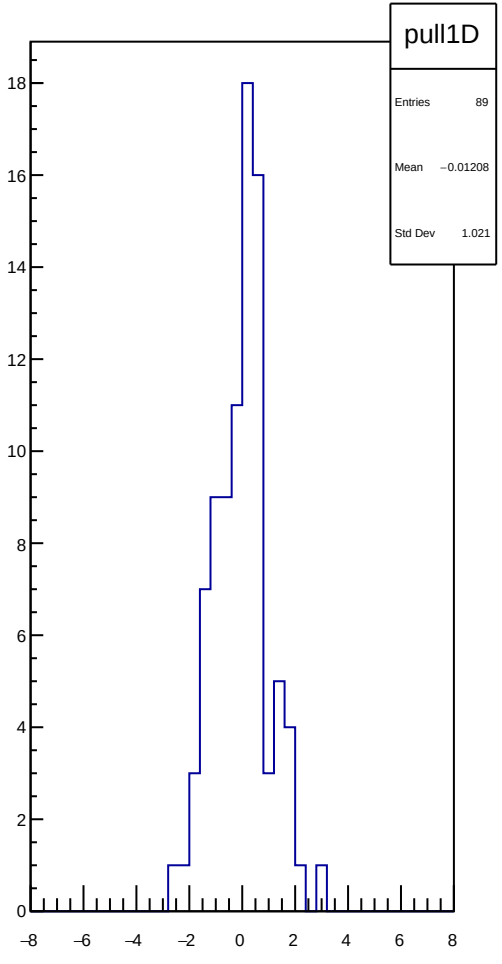

eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 3462 / 88
p0 1403 ± 1.063
1500
1450
1400
1350
1300

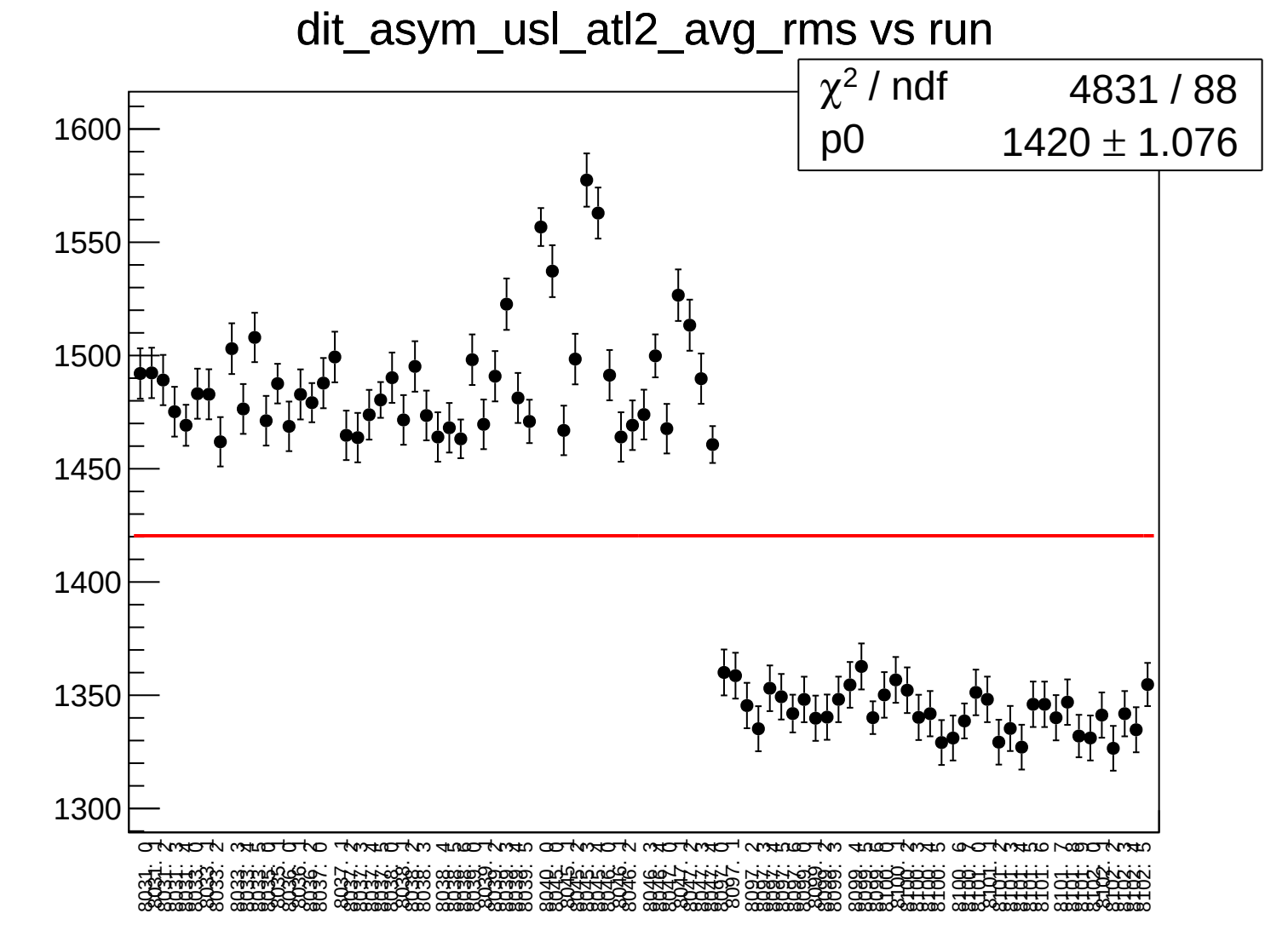

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
χ² / ndf 100.6 / 88
p0 1320 ± 4906
×10³
pull
Entries 89
Mean −232
Std Dev 0

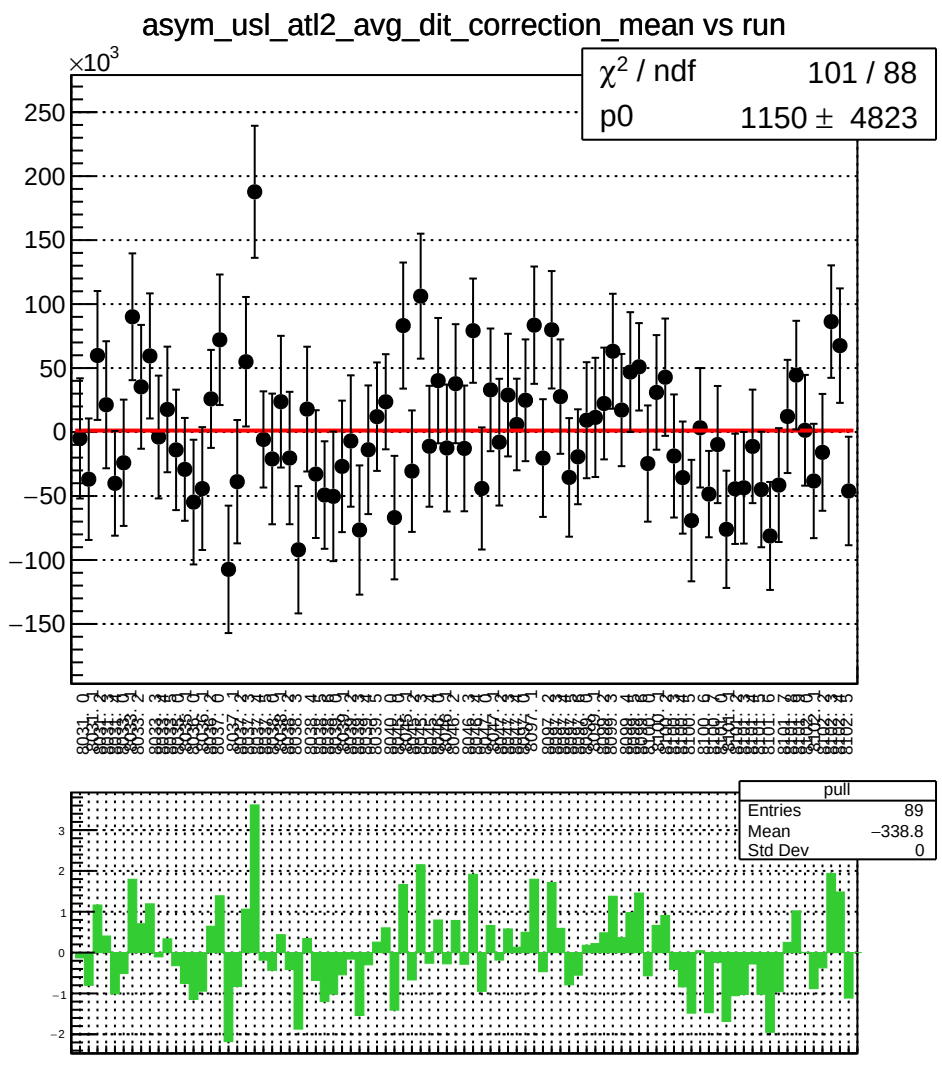

pull1D
Entries 89
Mean 0.005752
Std Dev 1.063

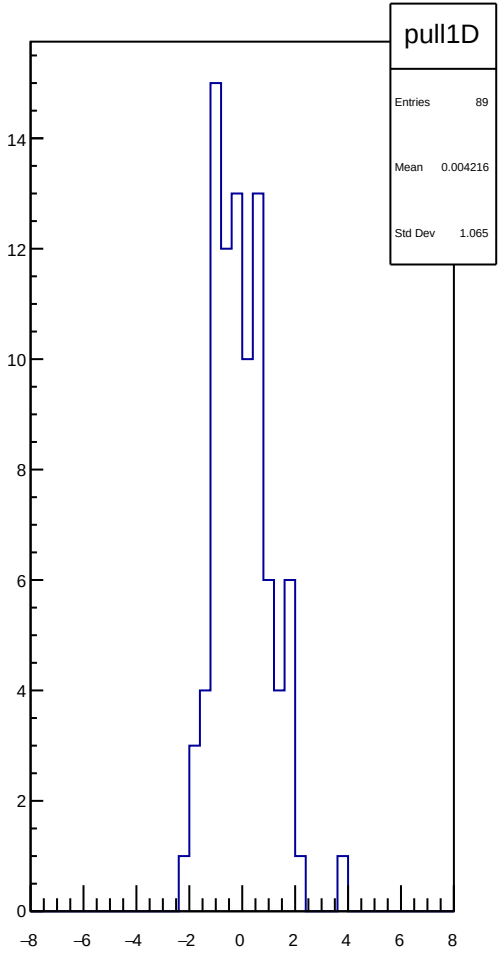

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 9170 / 88
p0 4574 ± 3.469
5200
5000
4800
4600
4400
4200
4000

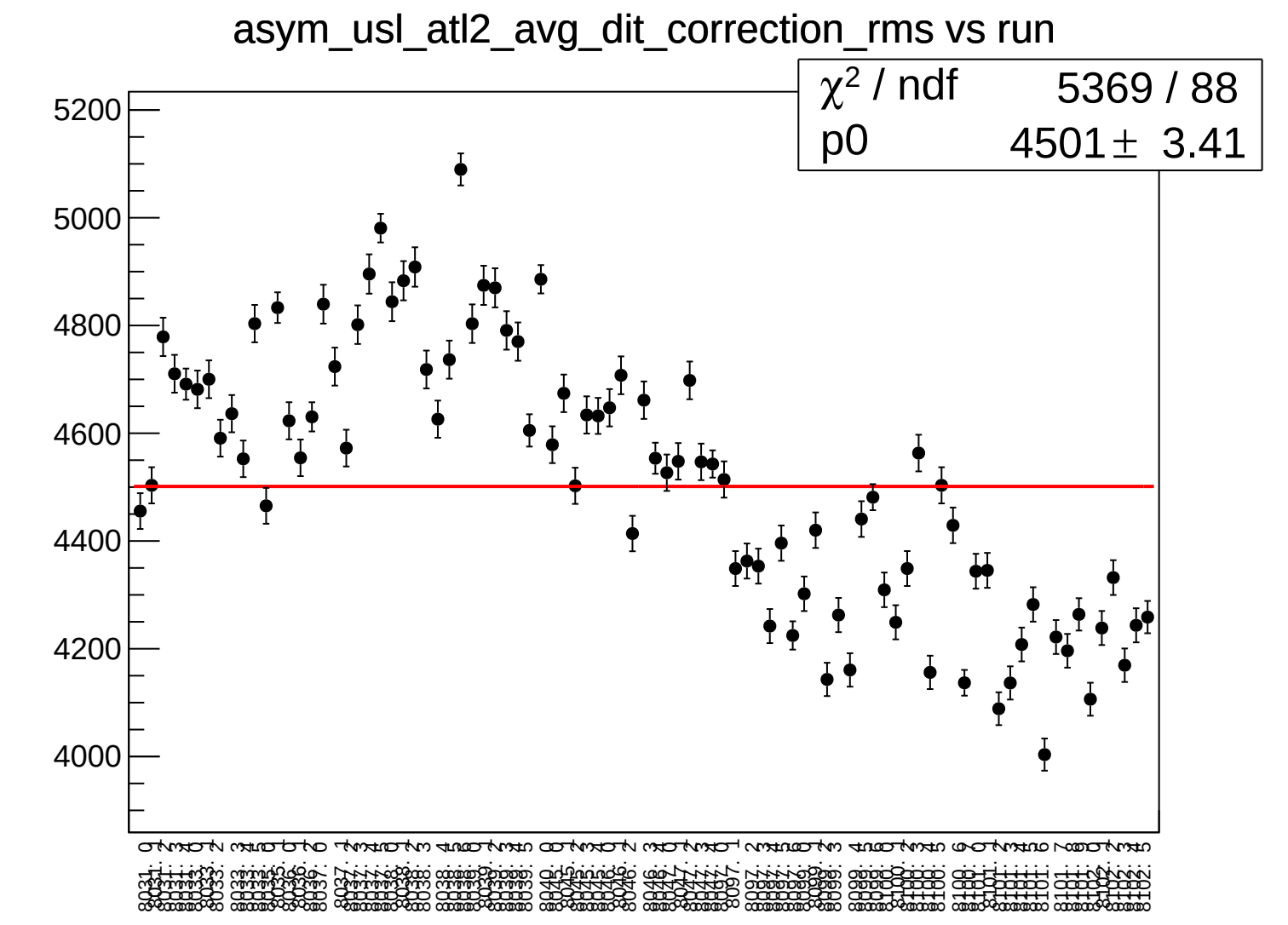

dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 92.86 / 88
p0 2865 ± 1522
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −23.11
Std Dev 0
3
2
1
0
−1
−2

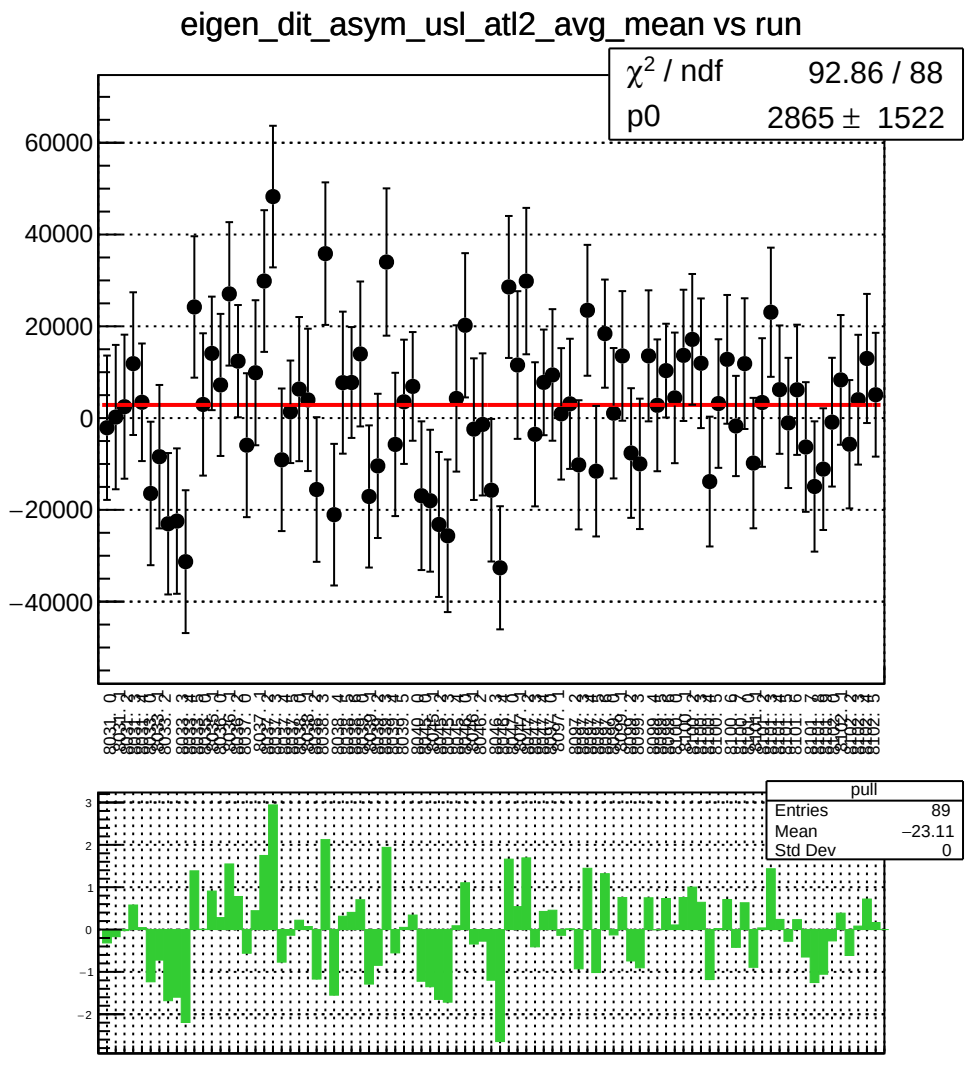

pull1D
Entries 89
Mean −0.01208
Std Dev 1.021
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

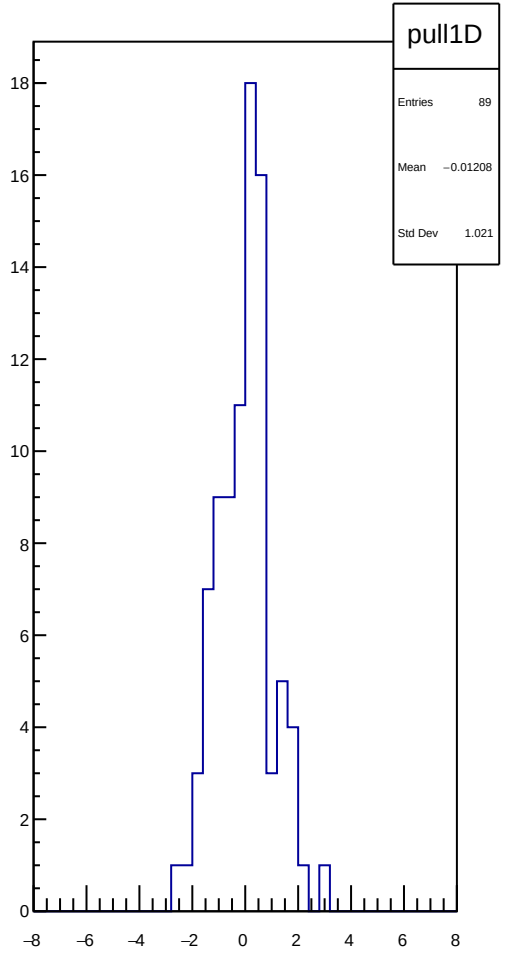

dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 4831 / 88
p0 1420 ± 1.076
1600
1550
1500
1450
1400
1350
1300

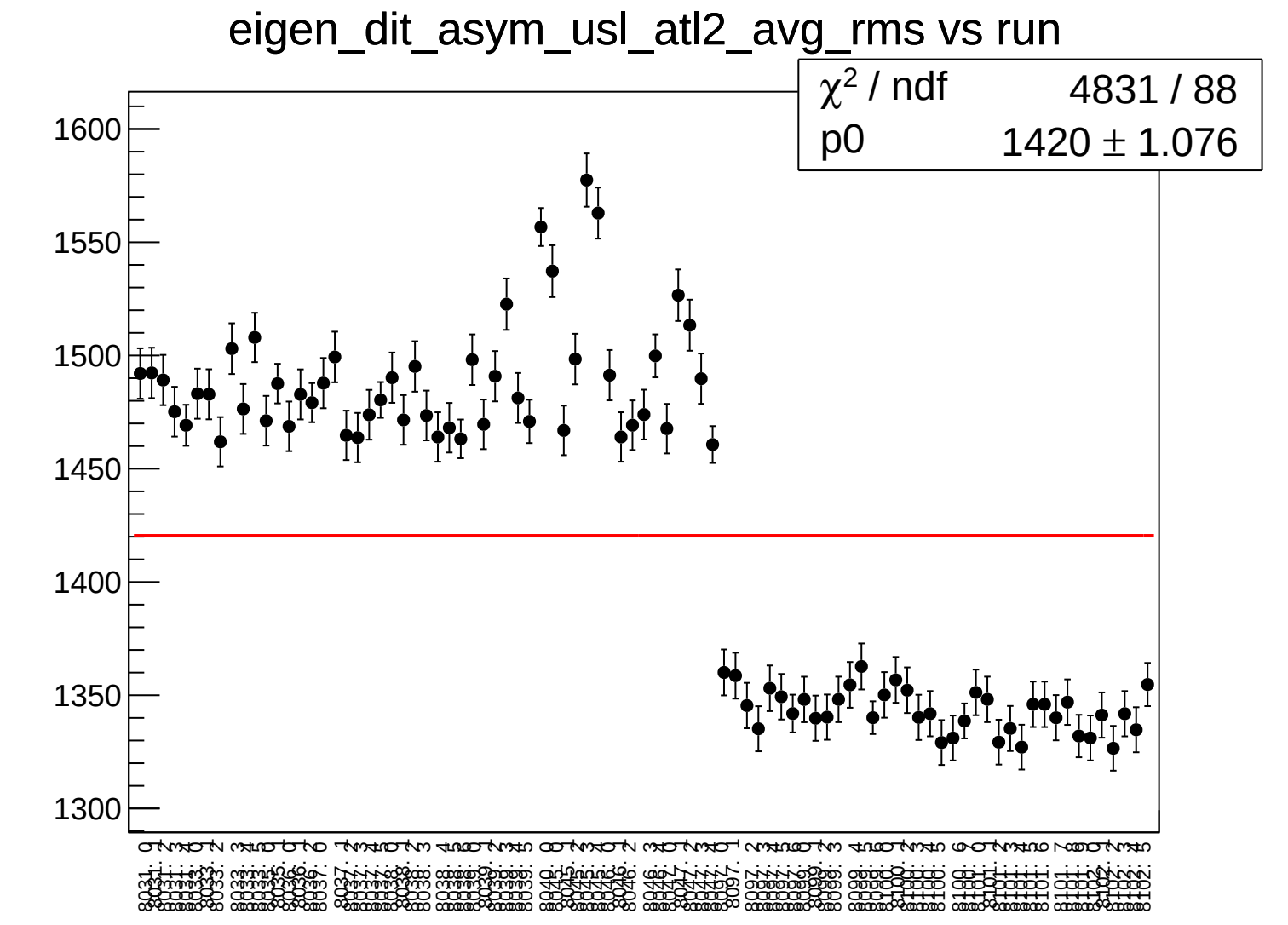

asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 101 / 88
p0 1150 ± 4823
250
200
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −338.8
Std Dev 0
3
2
1
0
−1
−2

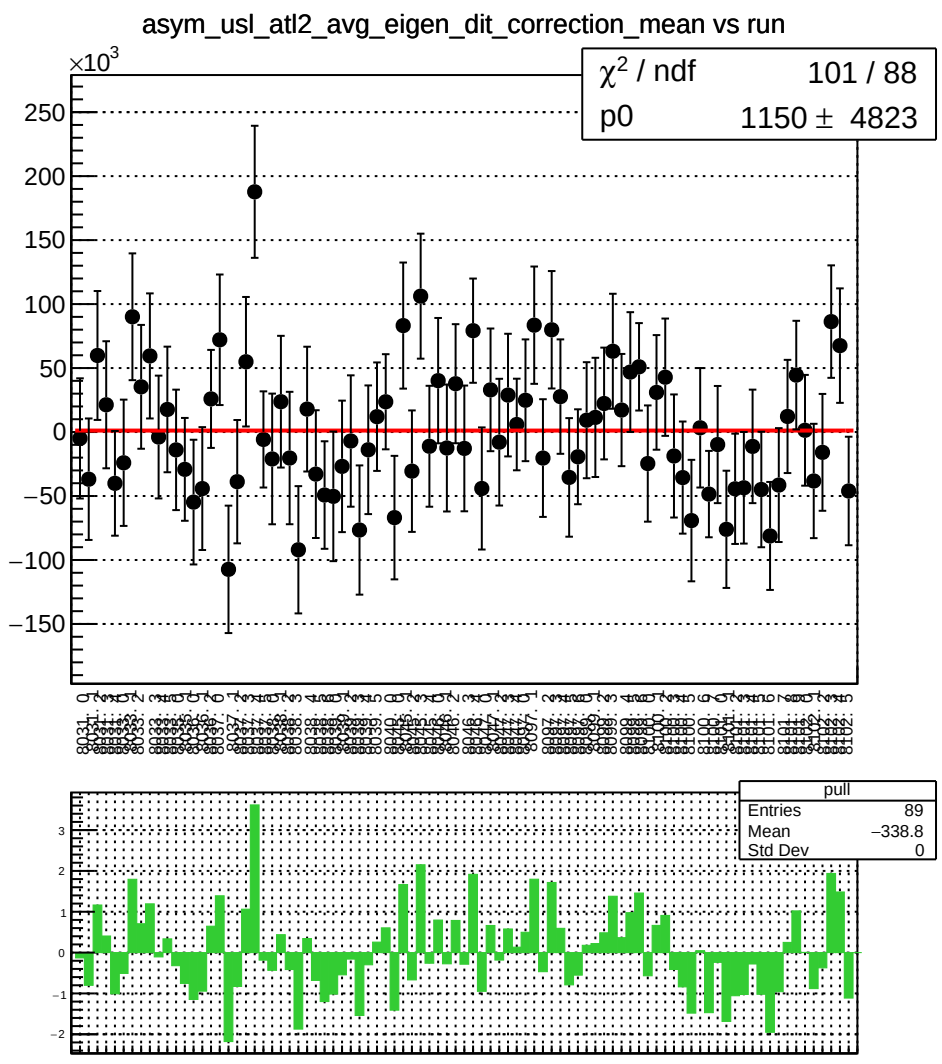

pull1D
Entries 89
Mean 0.004216
Std Dev 1.065
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

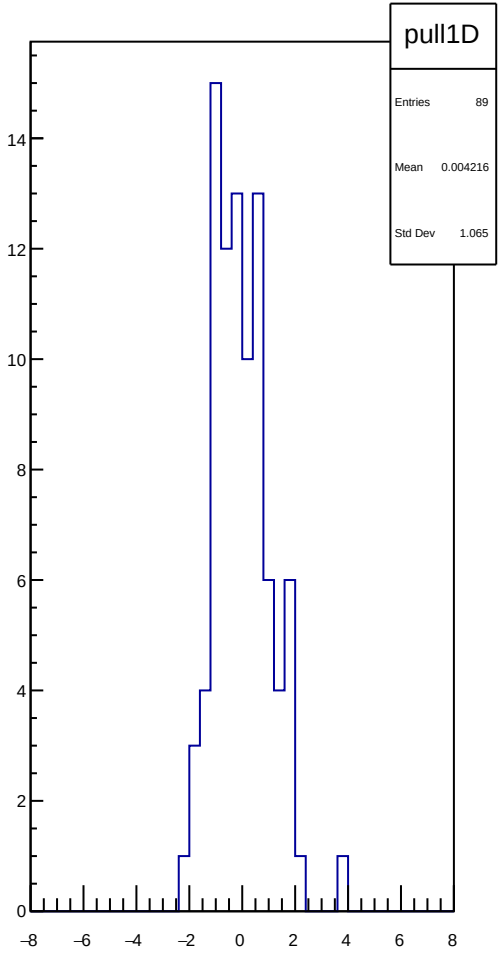

asym_usl_atl2_avg_dit_correction_rms vs run
χ² / ndf 5369 / 88
p0 4501 ± 3.41
5200
5000
4800
4600
4400
4200
4000

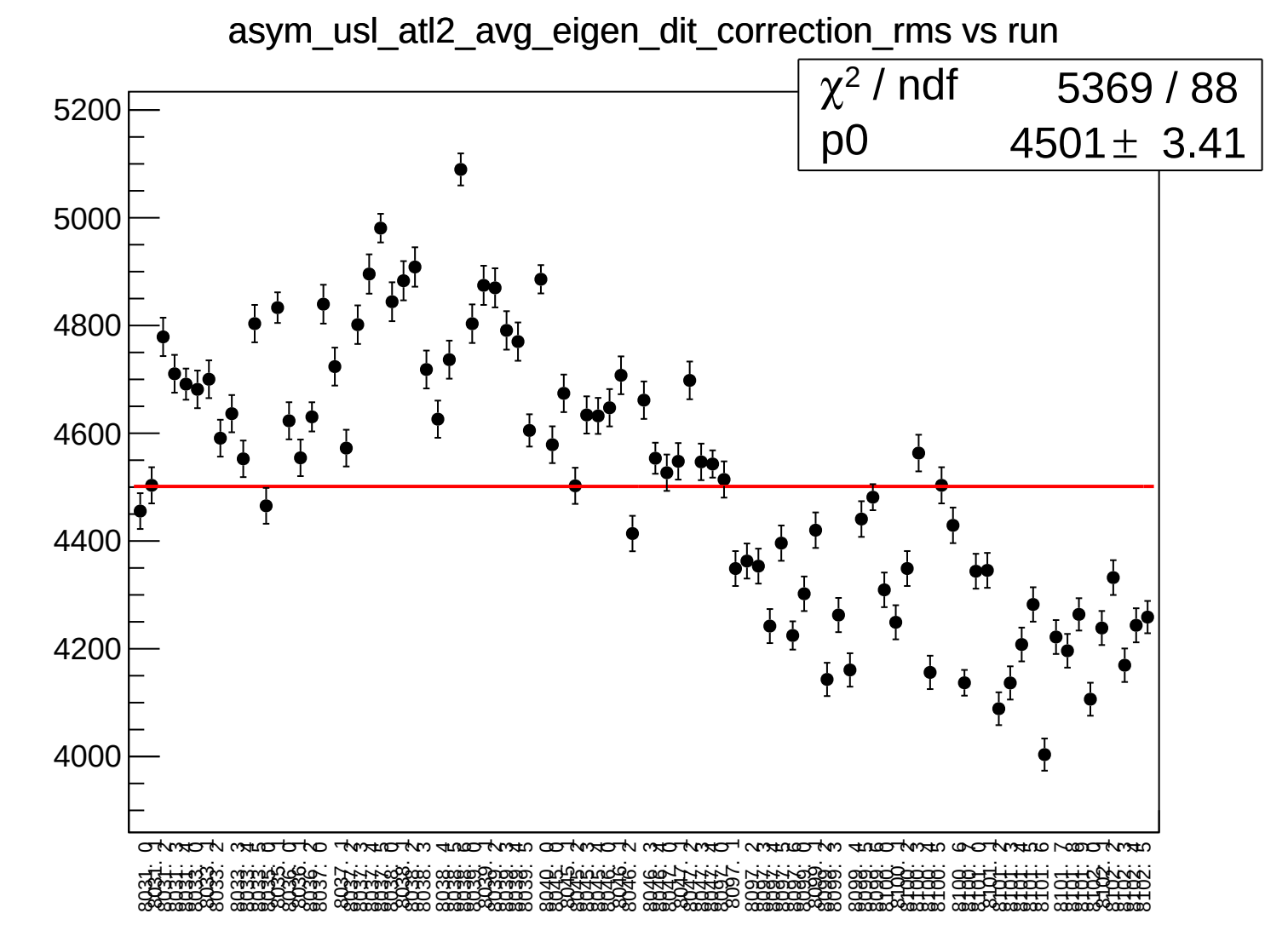

eigen_dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 92.86 / 88
p0 2865 ± 1522
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −23.11
Std Dev 0
3
2
1
0
−1
−2

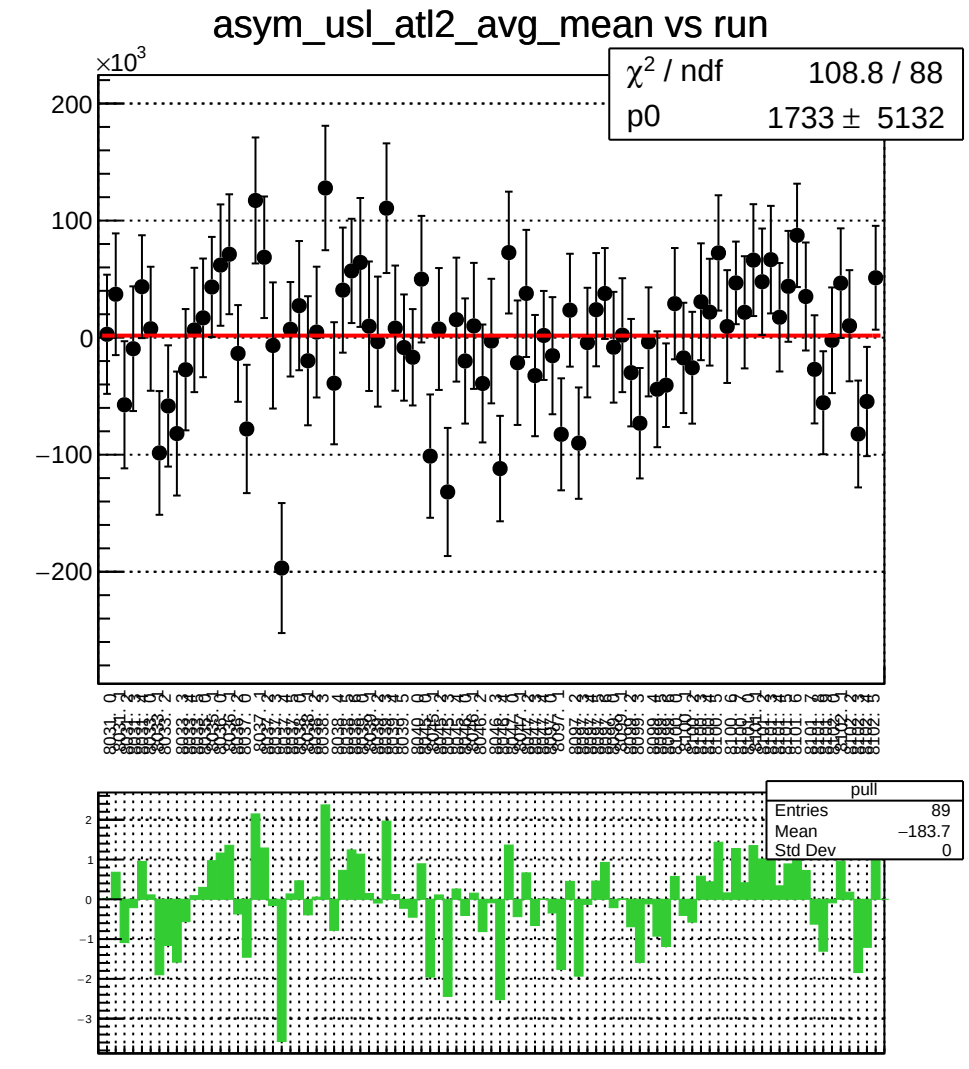

pull1D
Entries 89
Mean −0.01208
Std Dev 1.021
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

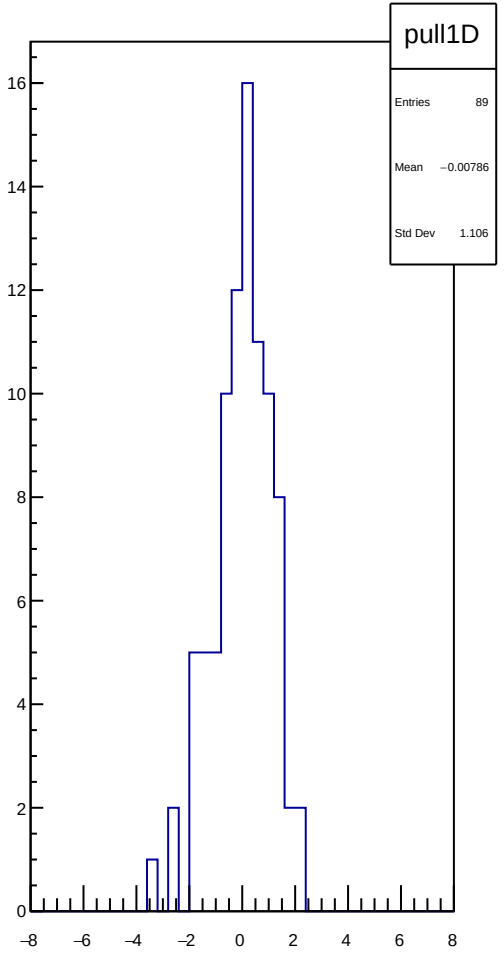

eigen_dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 4831 / 88
p0 1420 ± 1.076
1600
1550
1500
1450
1400
1350
1300

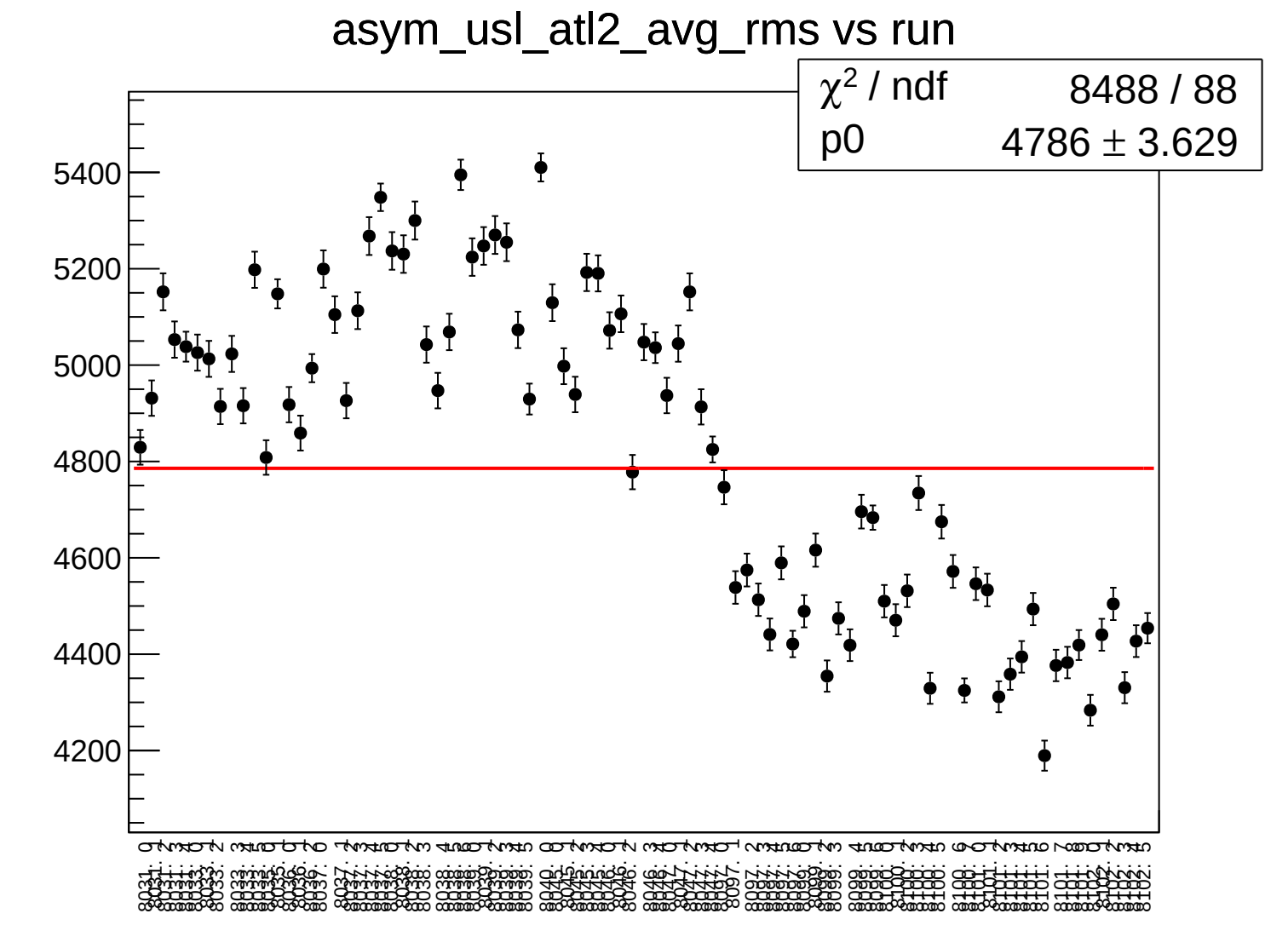

asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 101 / 88
p0 1150 ± 4823
pull
Entries 89
Mean −338.8
Std Dev 0

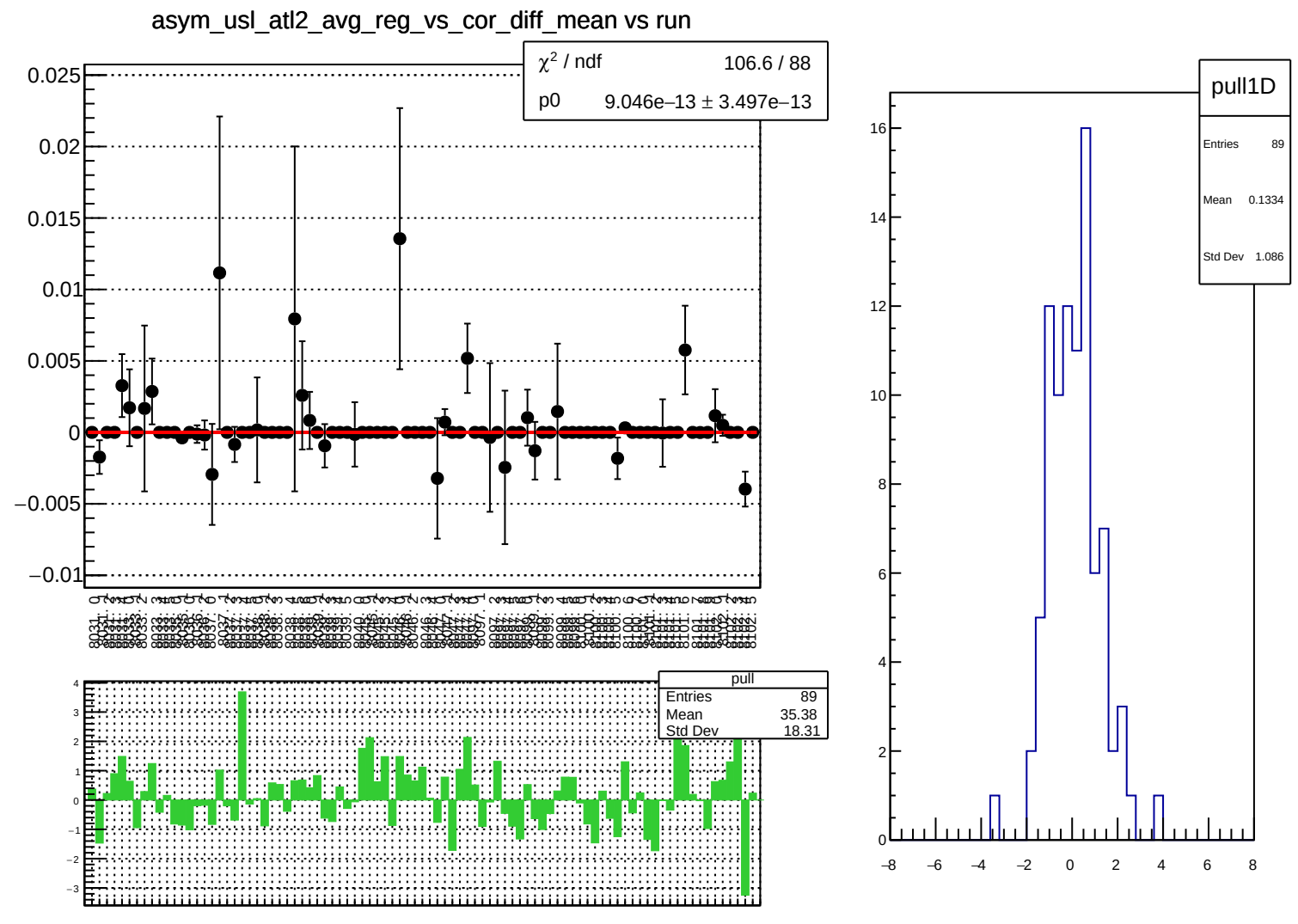

pull1D
Entries 89
Mean 0.004216
Std Dev 1.065

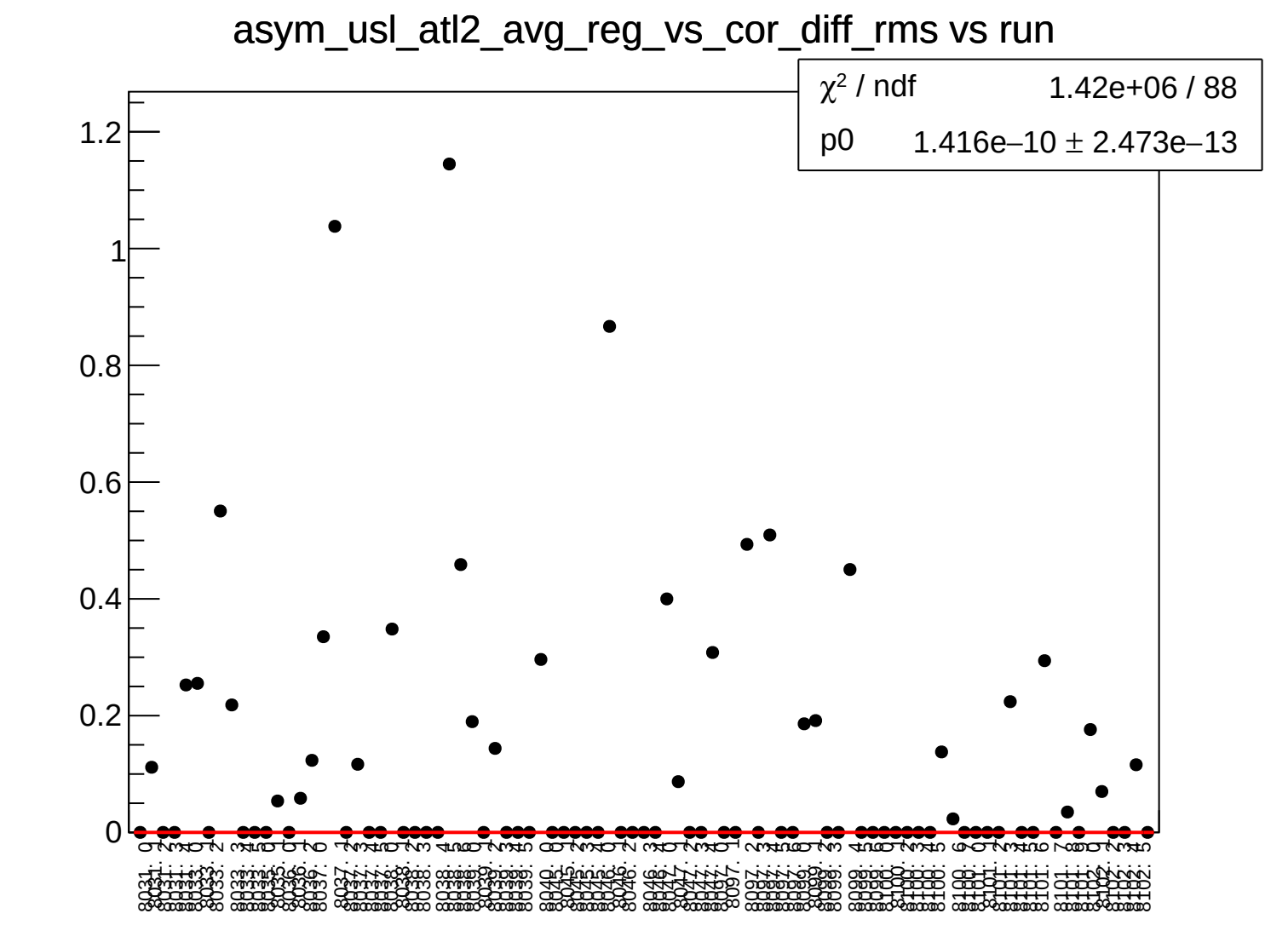

asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 5369 / 88
p0 4501 ± 3.41
5200
5000
4800
4600
4400
4200
4000

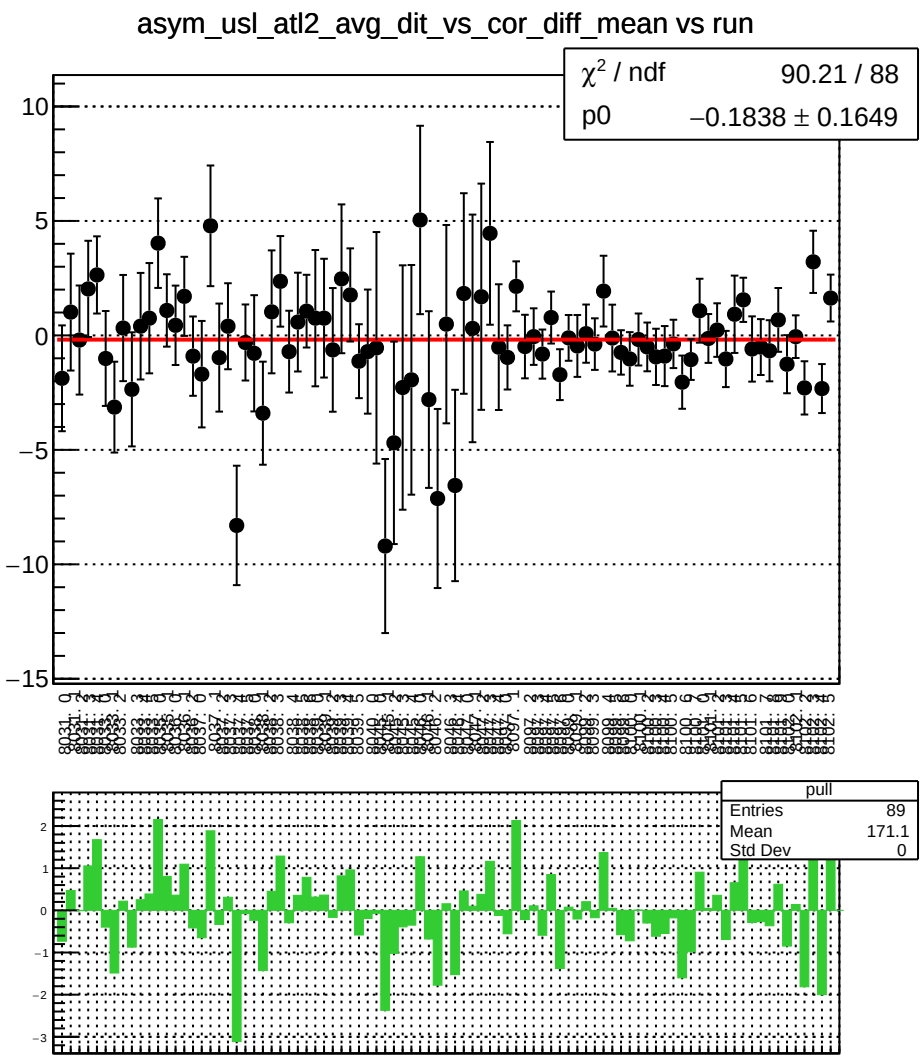

asym_usl_atl2_avg_mean vs run
×10^3
χ^2 / ndf 108.8 / 88
p0 1733 ± 5132
pull
Entries 89
Mean −183.7
Std Dev 0

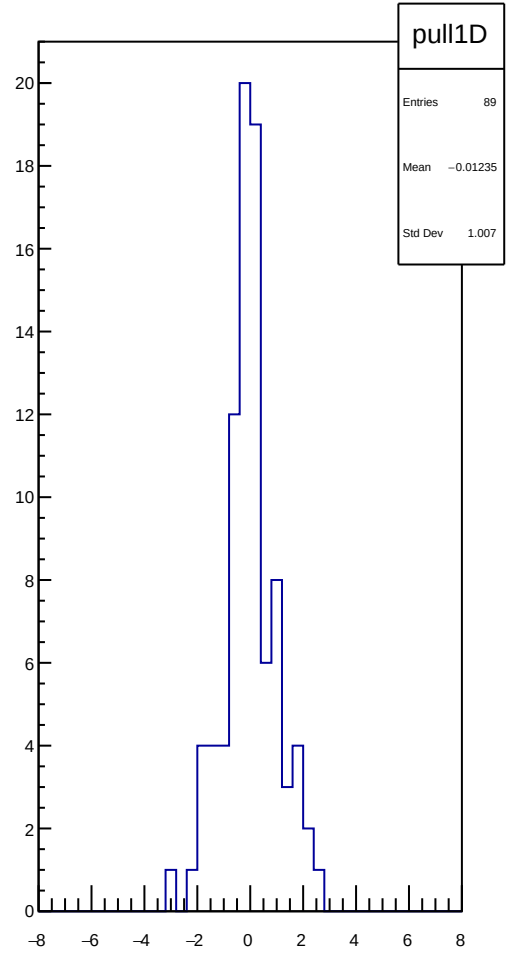

pull1D
Entries 89
Mean −0.00786
Std Dev 1.106

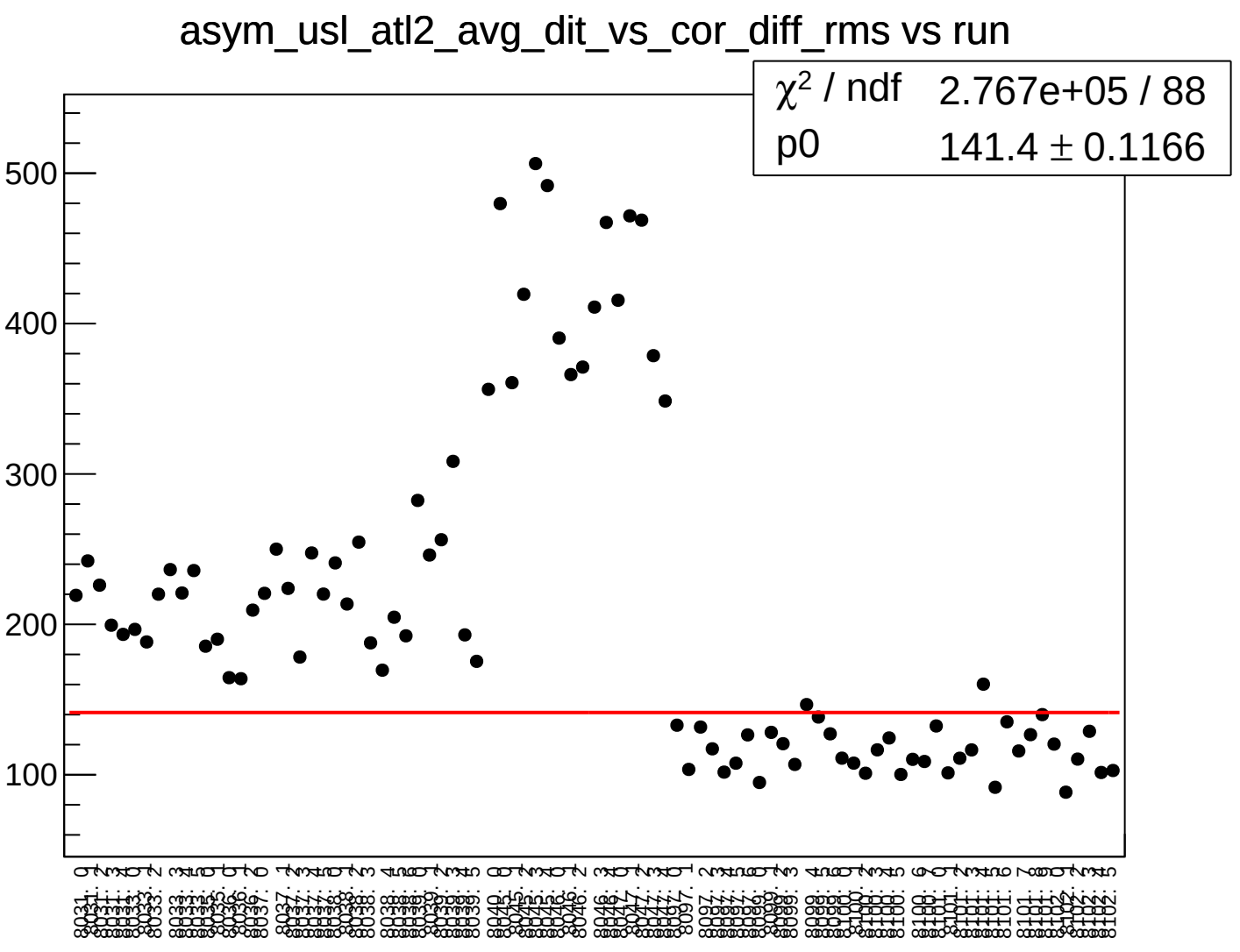

asym_usl_atl2_avg_rms vs run
χ² / ndf 8488 / 88
p0 4786 ± 3.629
5400
5200
5000
4800
4600
4400
4200

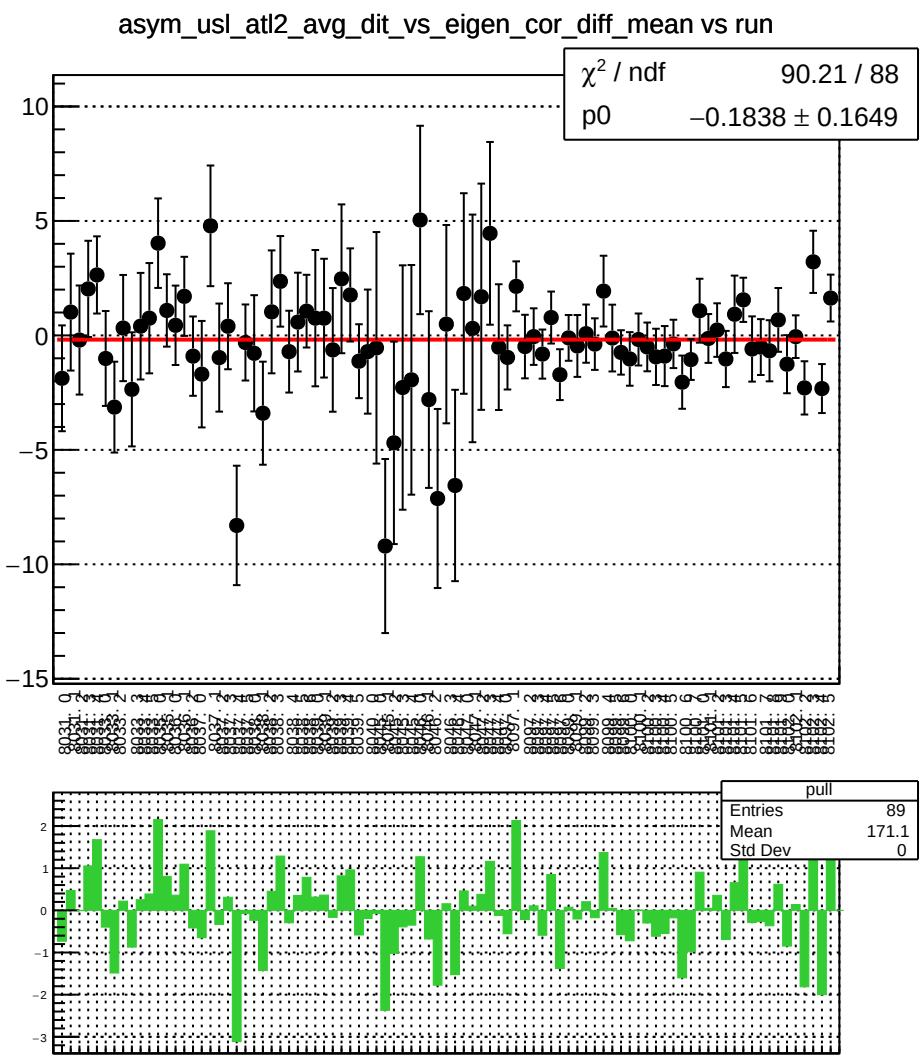

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 106.6 / 88
p0 9.046e−13 ± 3.497e−13
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 89
Mean 35.38
Std Dev 18.31
4
3
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.1334
Std Dev 1.086
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

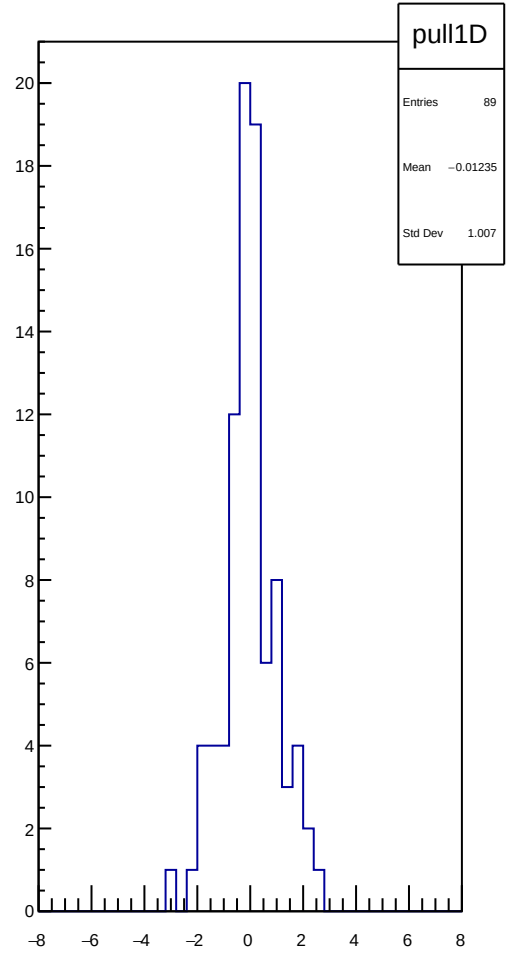

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.42e+06 / 88
p0 1.416e−10 ± 2.473e−13
1.2
1
0.8
0.6
0.4
0.2
0

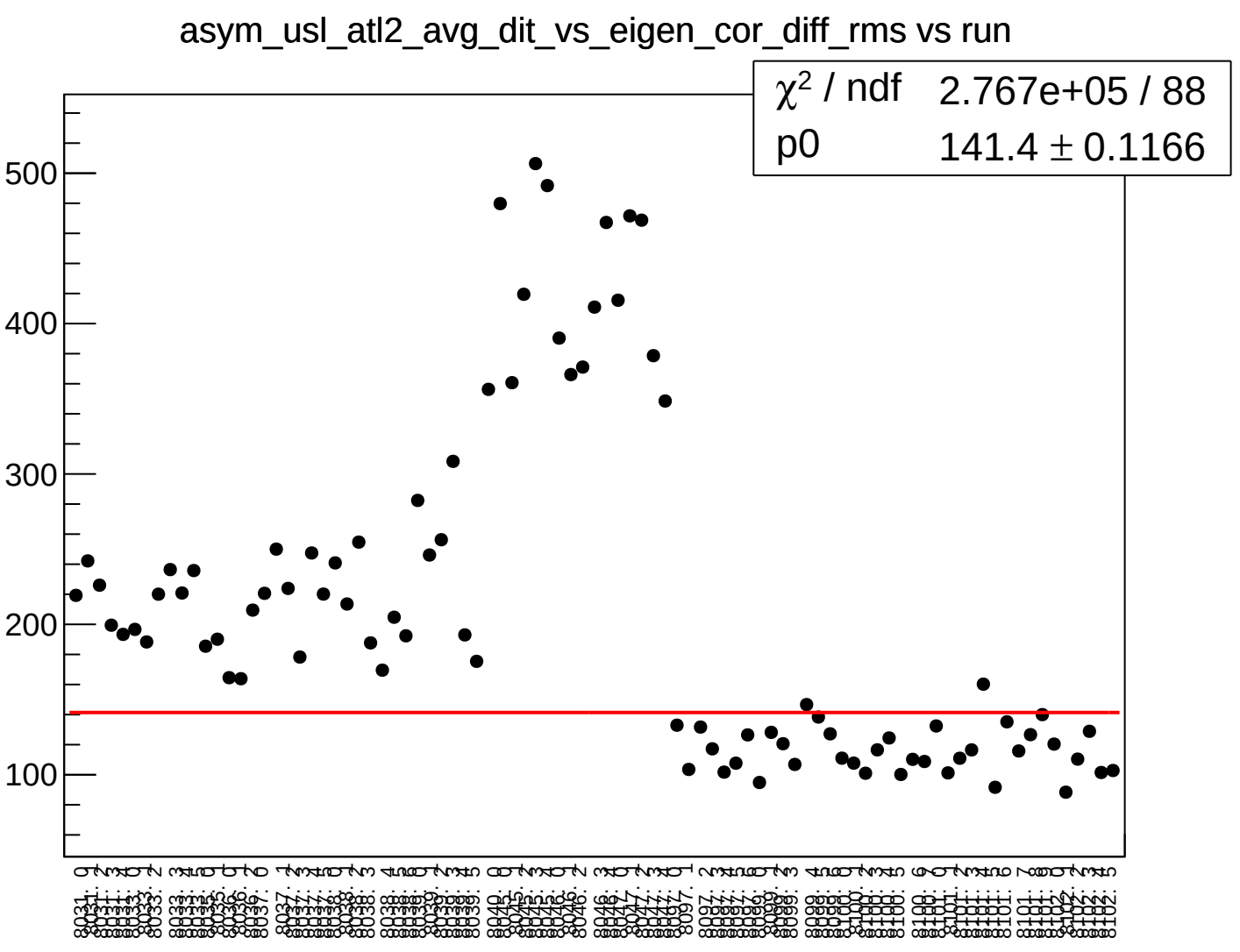

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 90.21 / 88
p0 −0.1838 ± 0.1649
pull
Entries 89
Mean 171.1
Std Dev 0

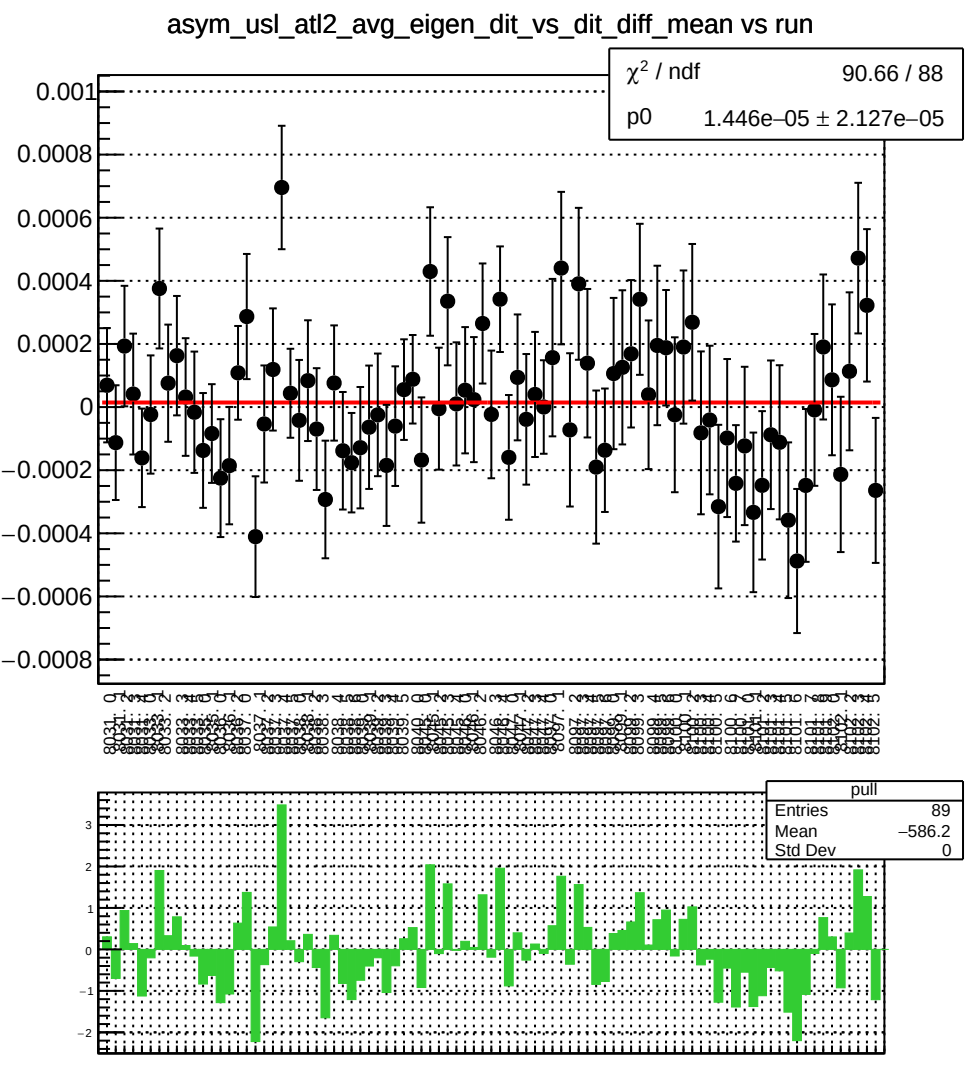

pull1D
Entries 89
Mean −0.01235
Std Dev 1.007

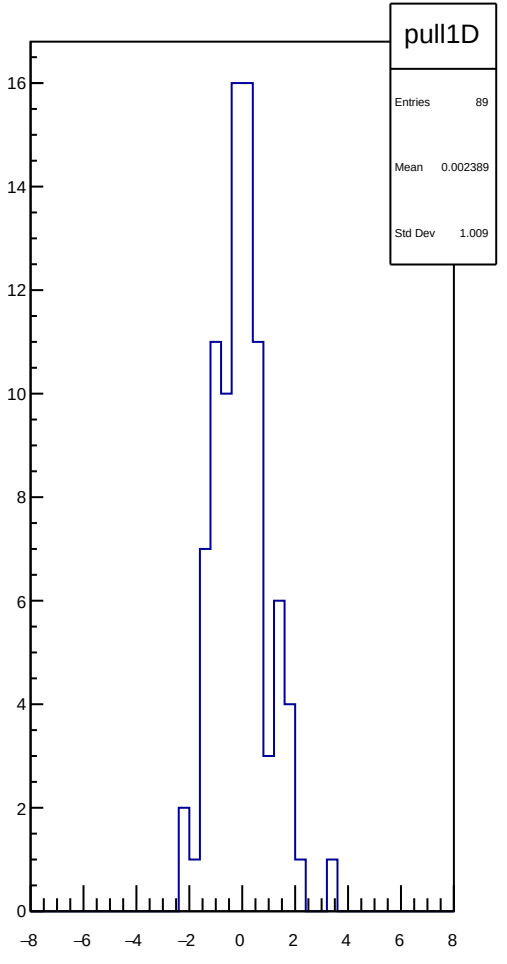

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.767e+05 / 88
p0 141.4 ± 0.1166
500
400
300
200
100

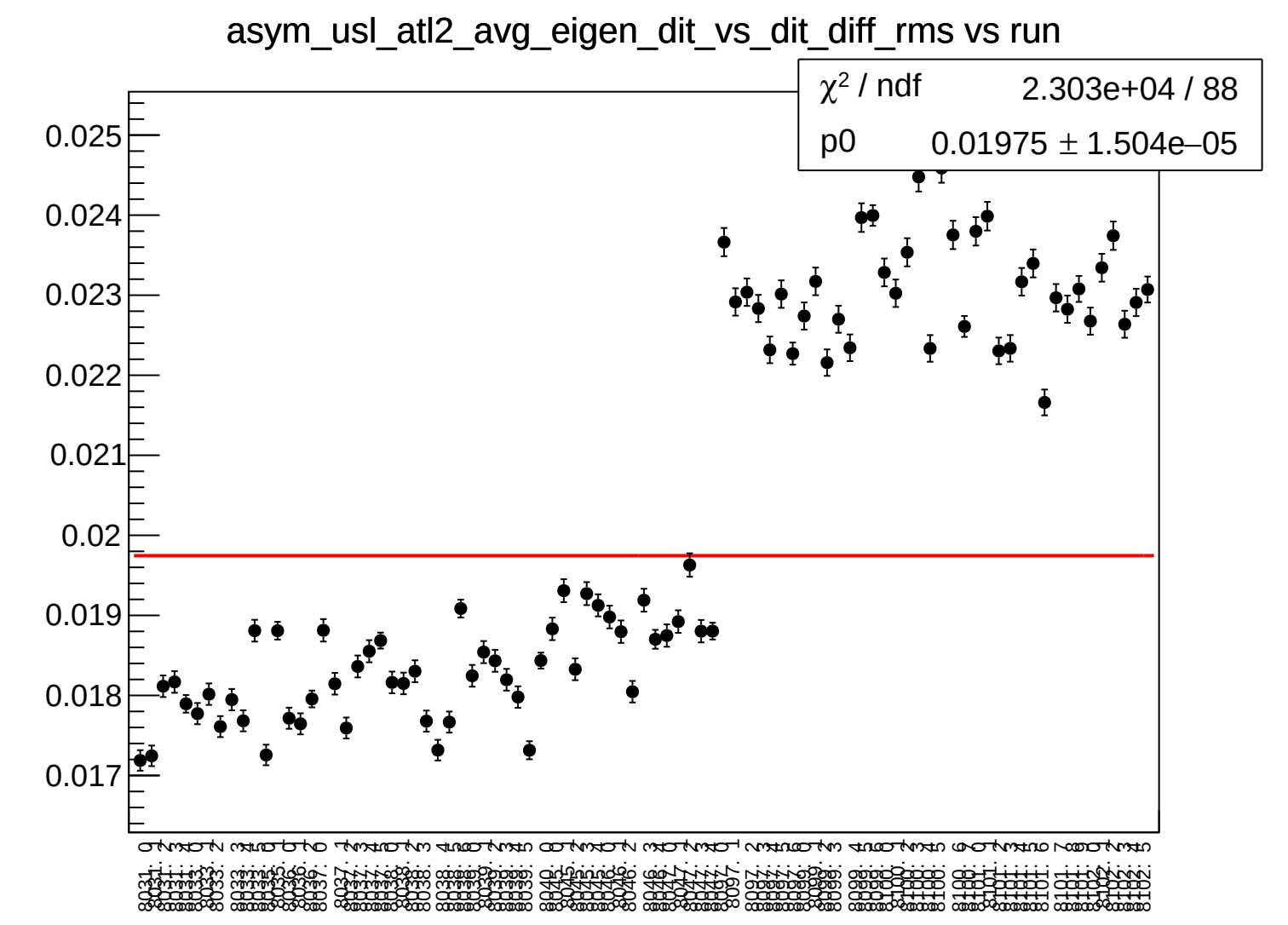

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.21 / 88
p0 −0.1838 ± 0.1649
pull
Entries 89
Mean 171.1
Std Dev 0

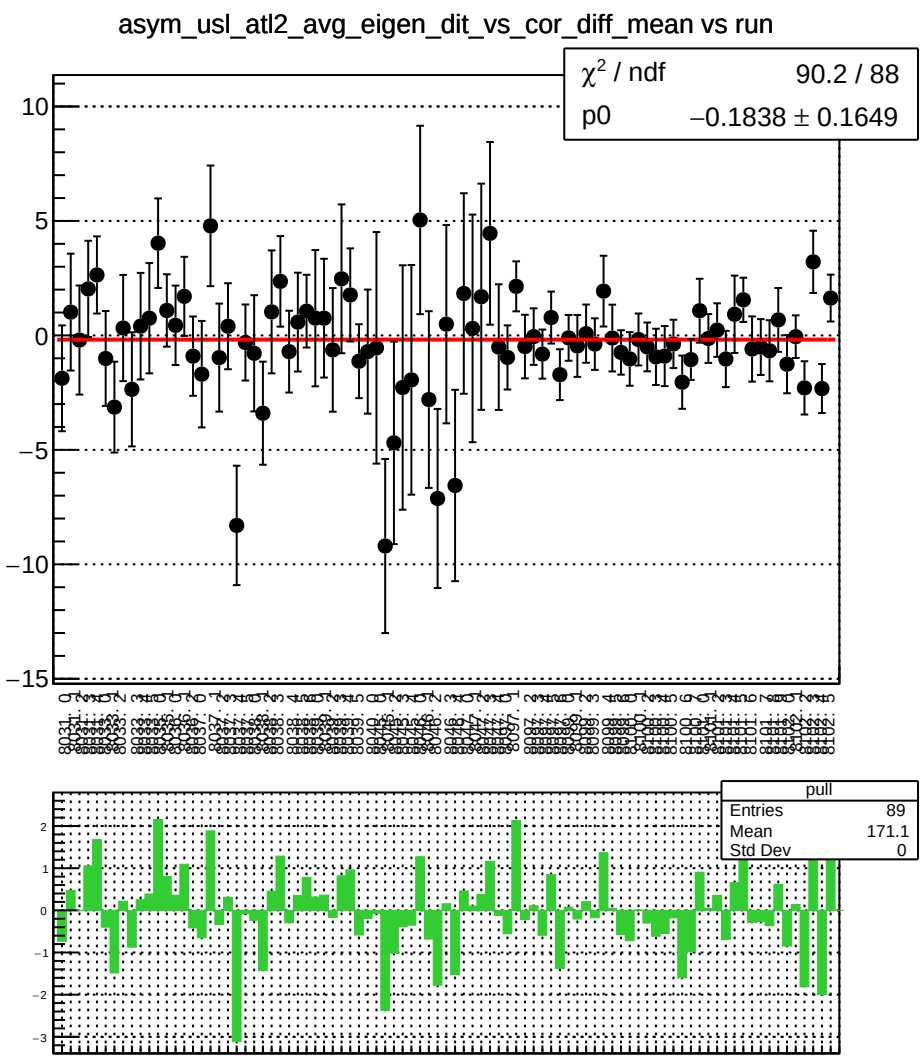

pull1D
Entries 89
Mean −0.01235
Std Dev 1.007

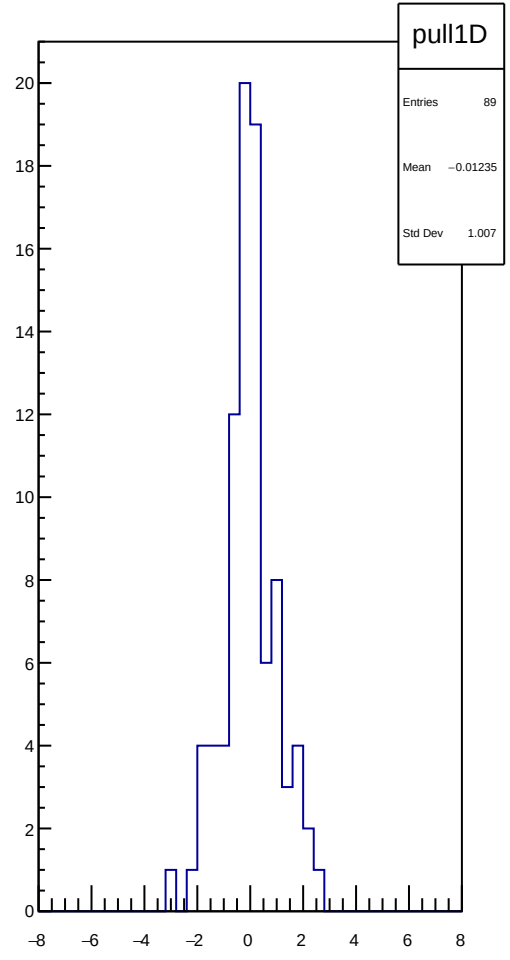

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.767e+05 / 88
p0 141.4 ± 0.1166
500
400
300
200
100

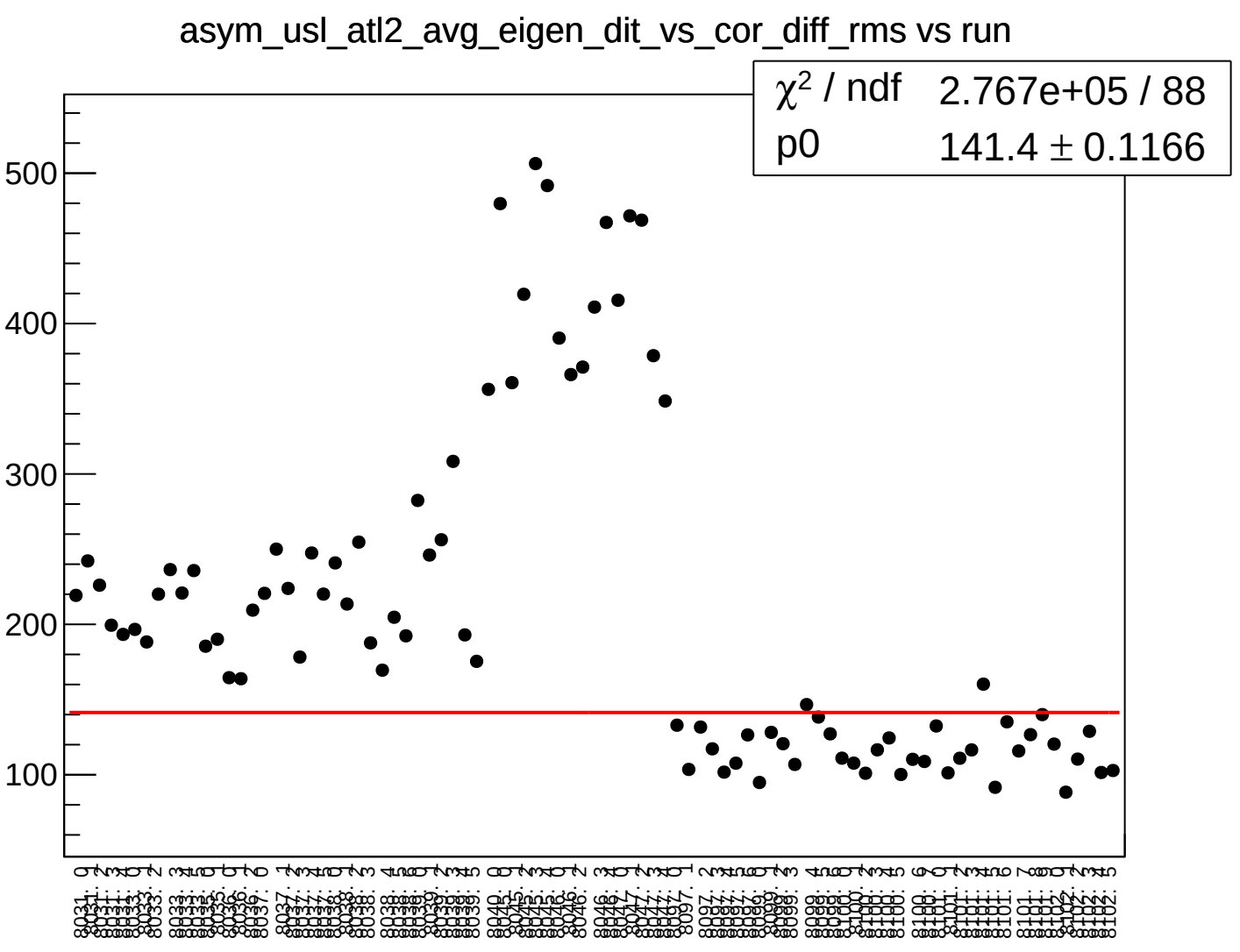

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 90.66 / 88
p0 1.446e−05 ± 2.127e−05
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 89
Mean −586.2
Std Dev 0
3
2
1
0
−1
−2

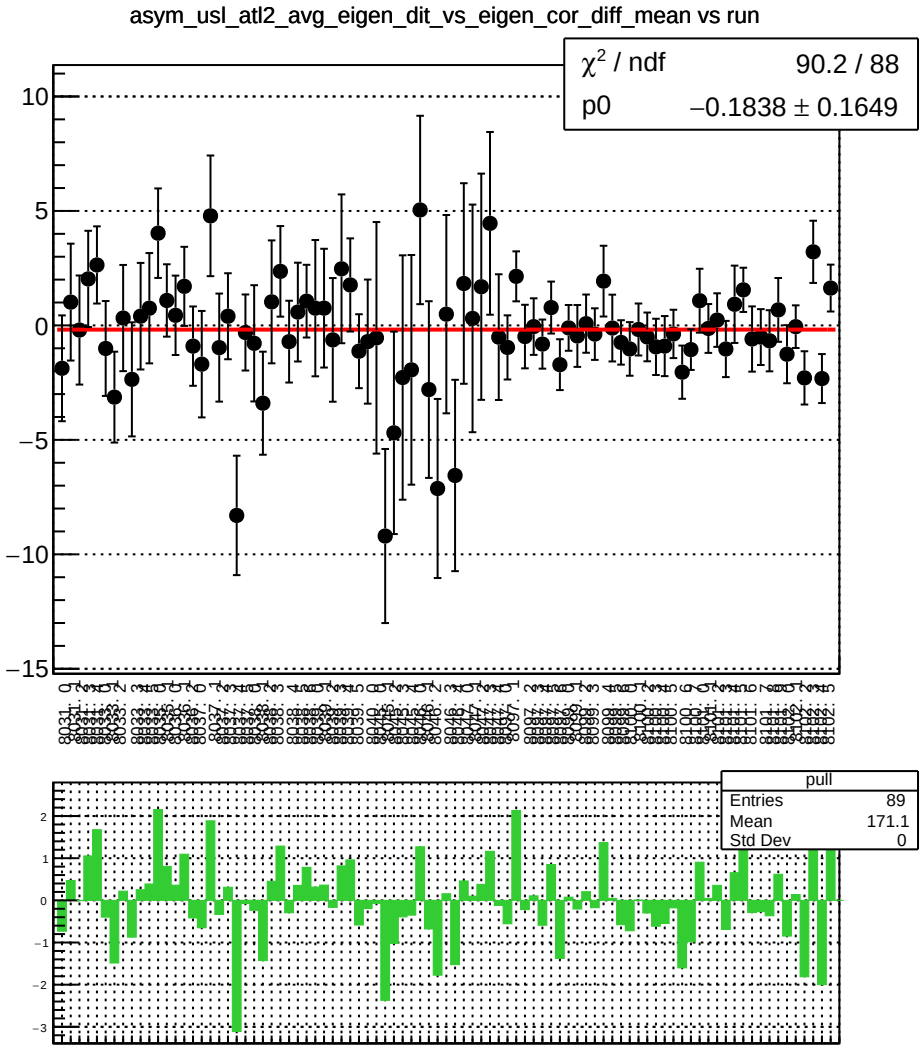

pull1D
Entries 89
Mean 0.002389
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

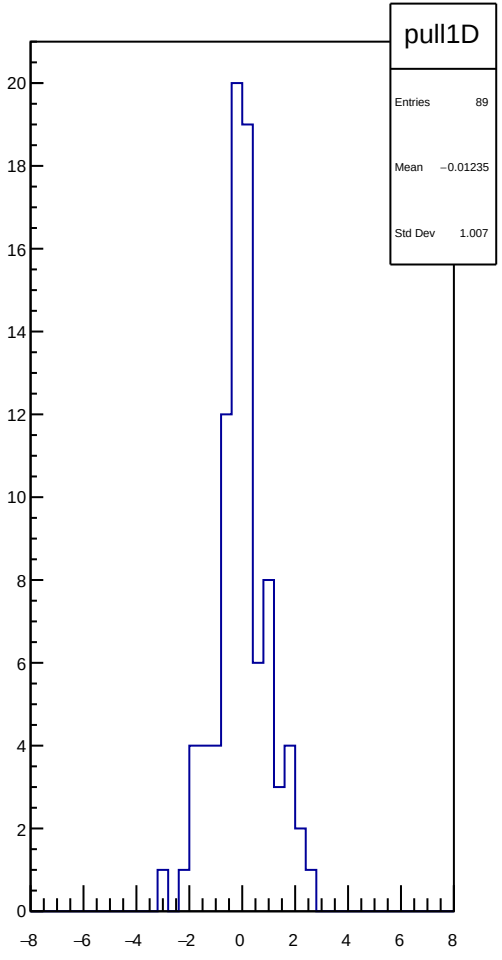

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.303e+04 / 88
p0 0.01975 ± 1.504e−05
0.025
0.024
0.023
0.022
0.021
0.02
0.019
0.018
0.017

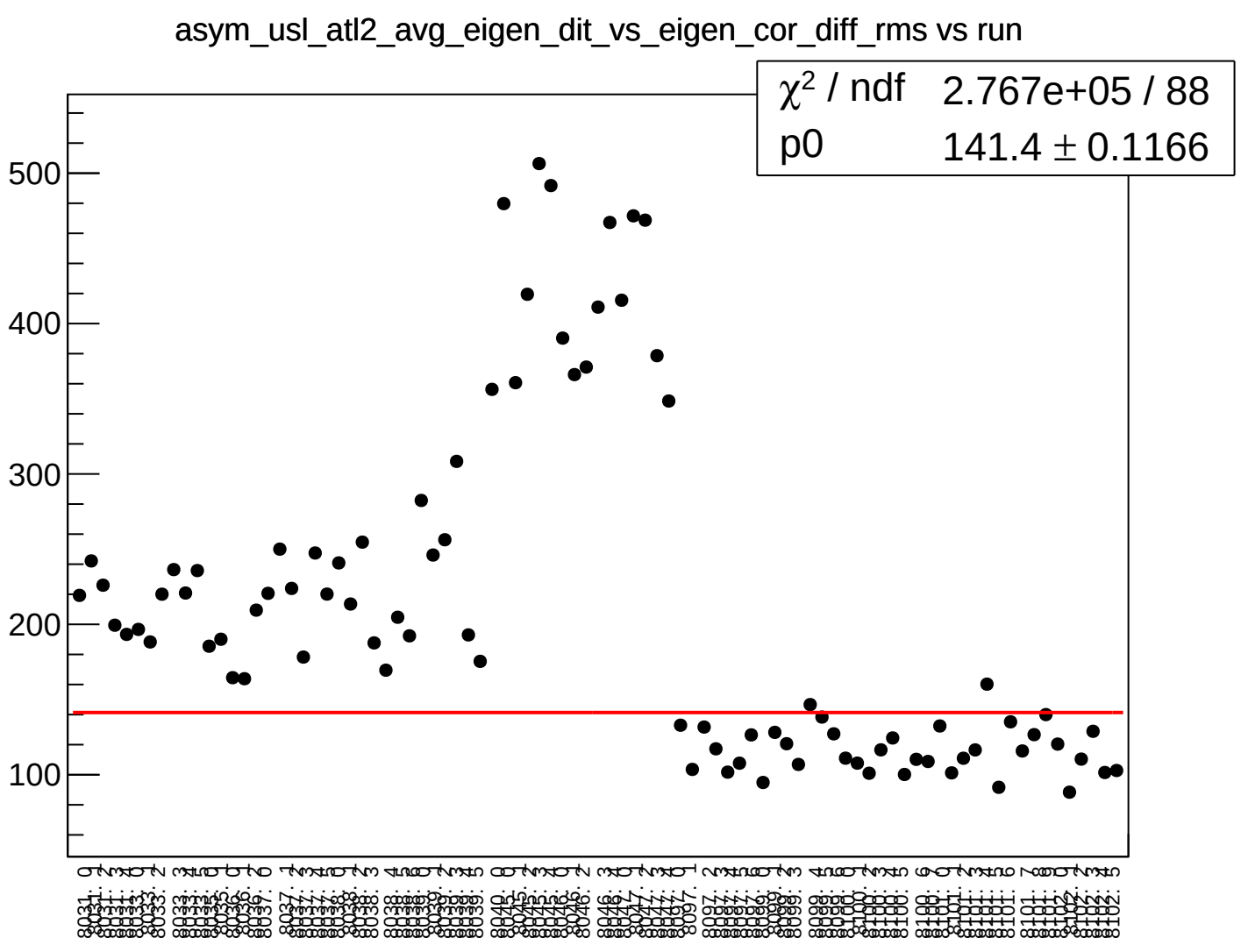

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.2 / 88
p0 −0.1838 ± 0.1649
pull
Entries 89
Mean 171.1
Std Dev 0

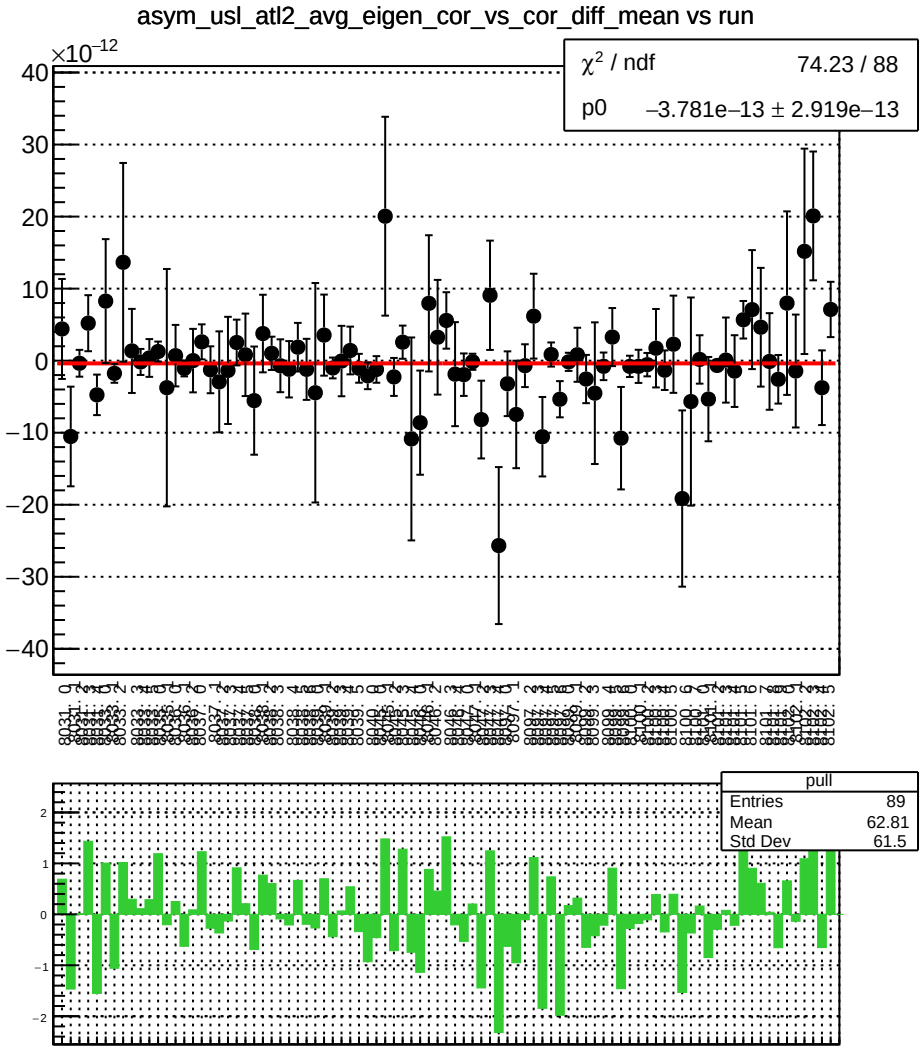

pull1D
Entries 89
Mean −0.01235
Std Dev 1.007

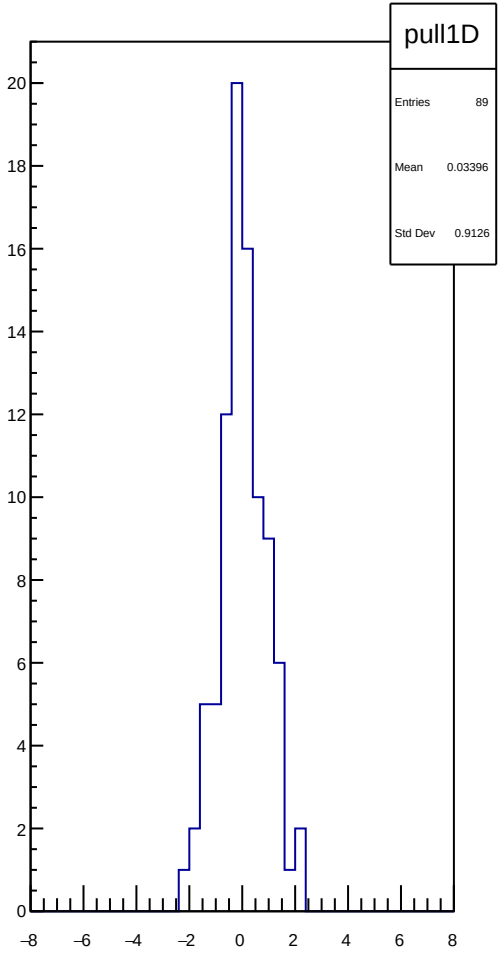

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.767e+05 / 88
p0 141.4 ± 0.1166
500
400
300
200
100

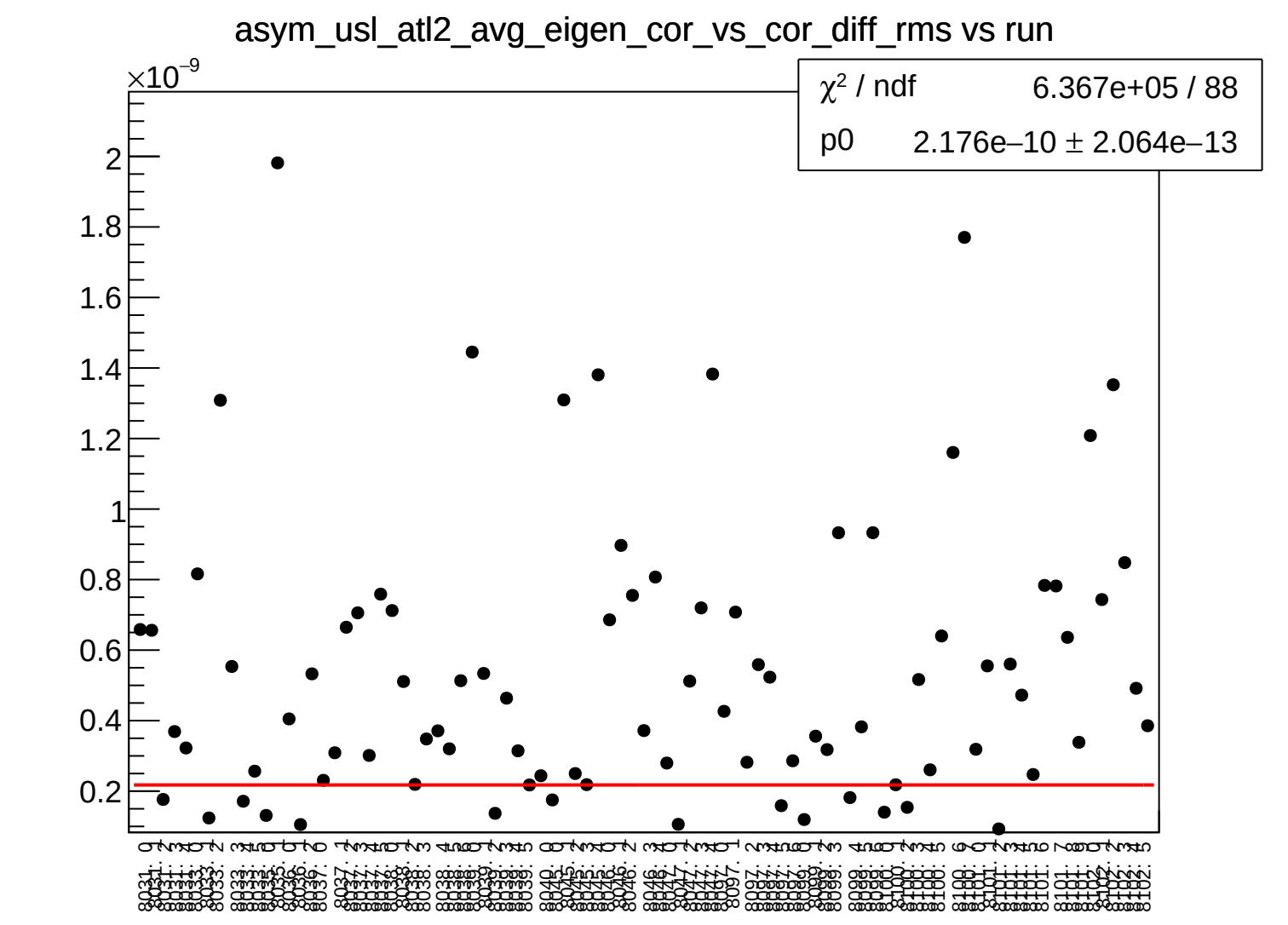

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.2 / 88
p0 −0.1838 ± 0.1649
pull
Entries 89
Mean 171.1
Std Dev 0

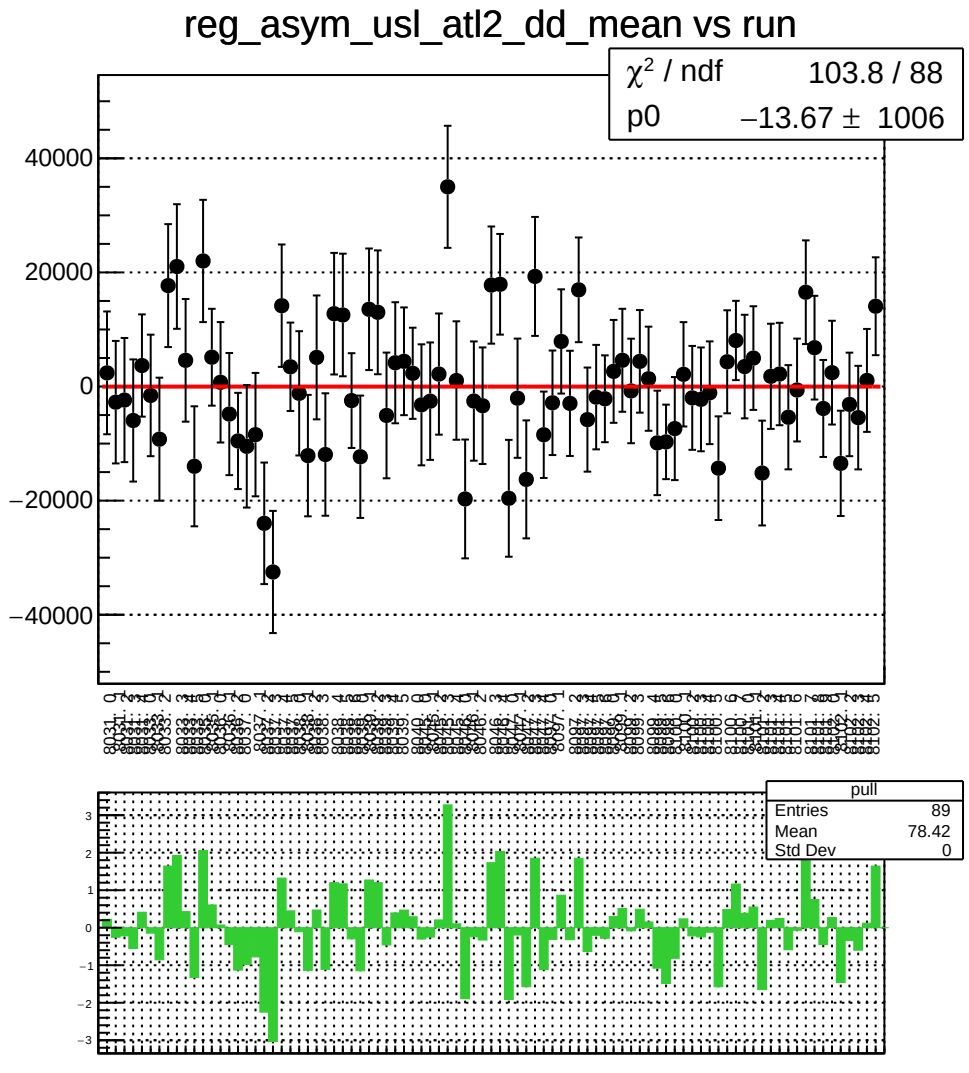

pull1D
Entries 89
Mean −0.01235
Std Dev 1.007

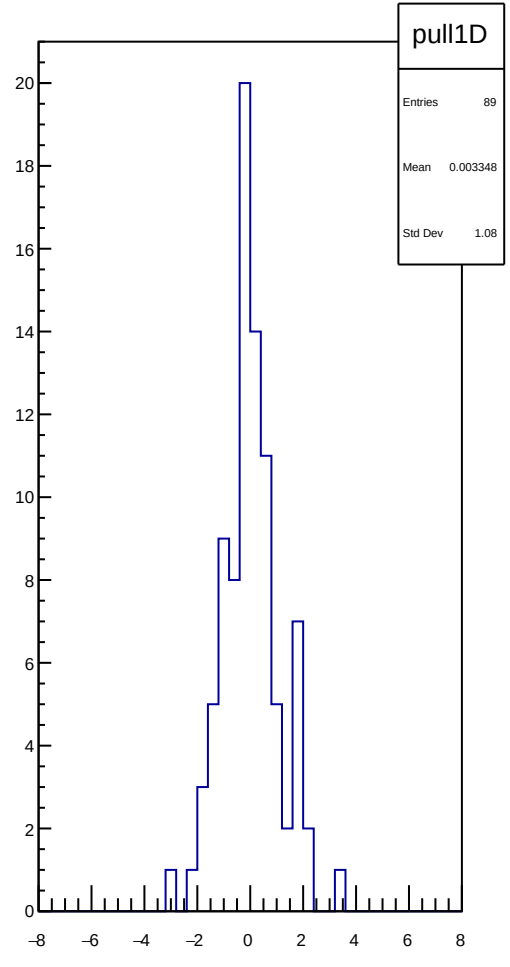

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.767e+05 / 88
p0 141.4 ± 0.1166
500
400
300
200
100

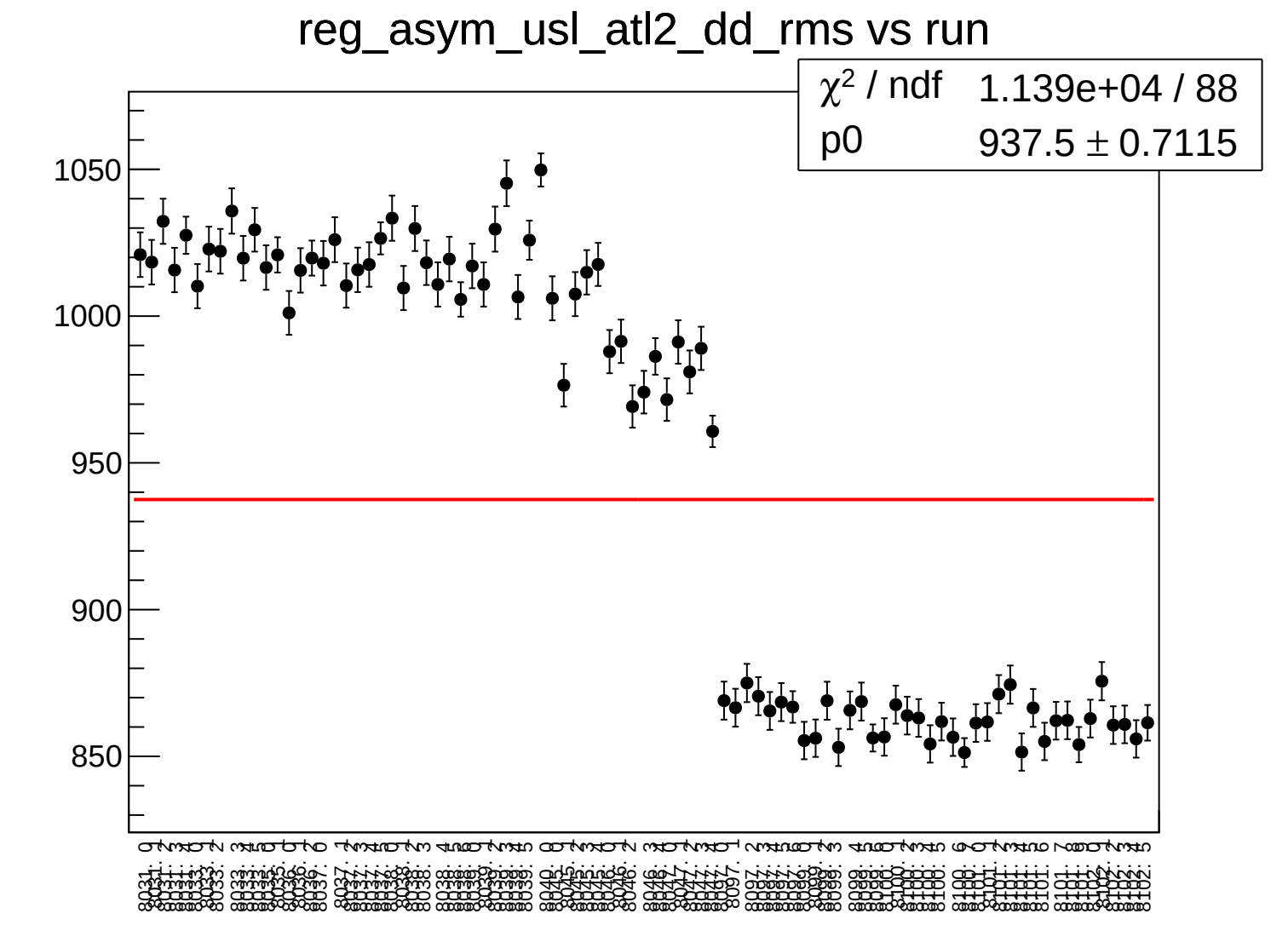

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.23 / 88
p0 −3.781e−13 ± 2.919e−13
pull
Entries 89
Mean 62.81
Std Dev 61.5

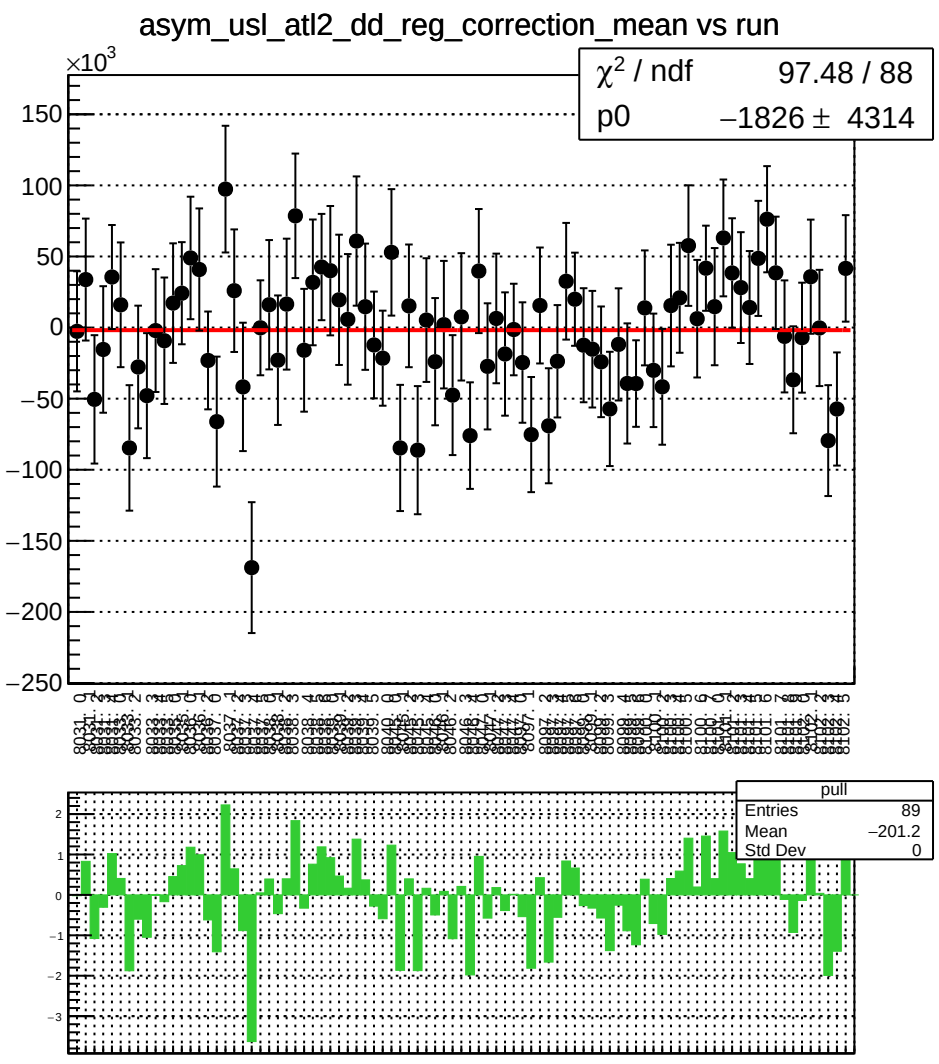

pull1D
Entries 89
Mean 0.03396
Std Dev 0.9126

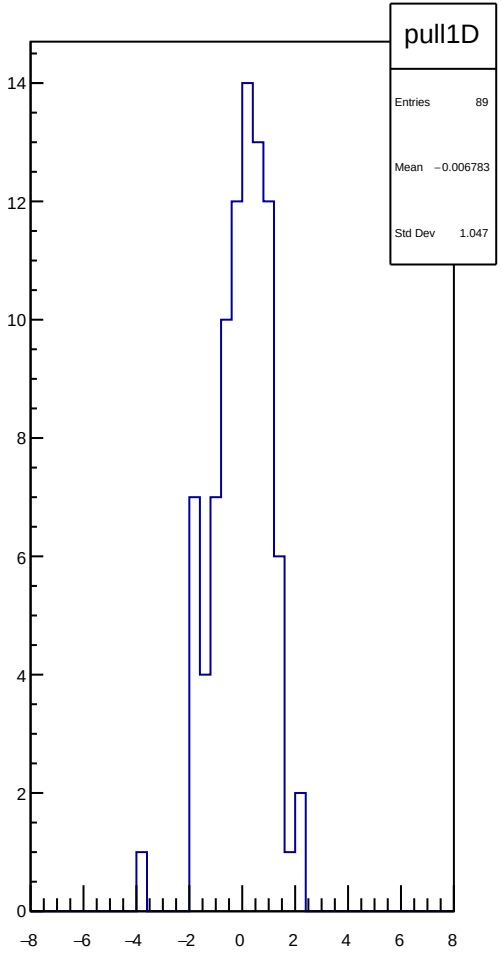

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.367e+05 / 88
p0 2.176e−10 ± 2.064e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

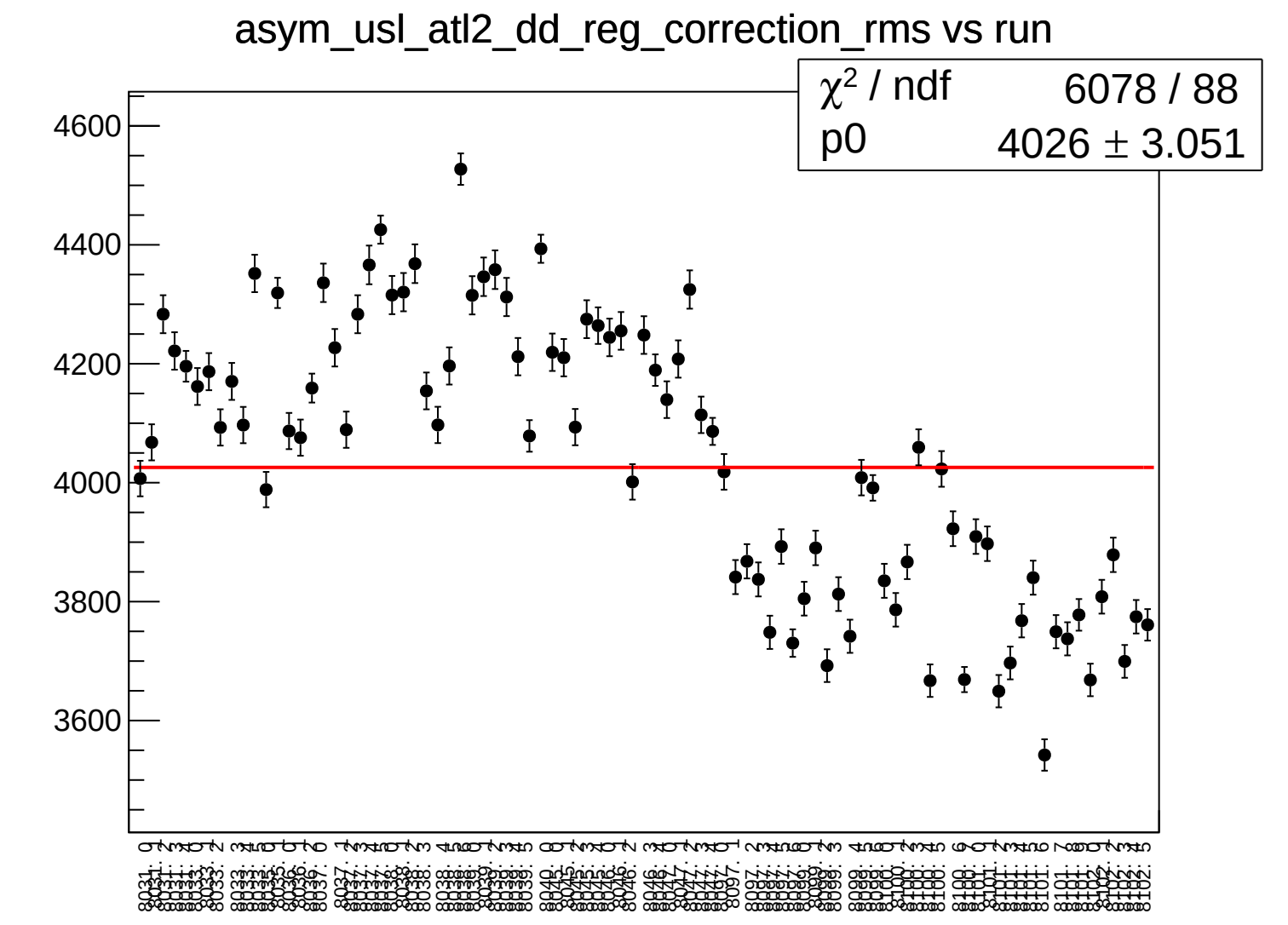

reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 103.8 / 88
p0 −13.67 ± 1006
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 78.42
Std Dev 0
3
2
1
0
−1
−2
−3

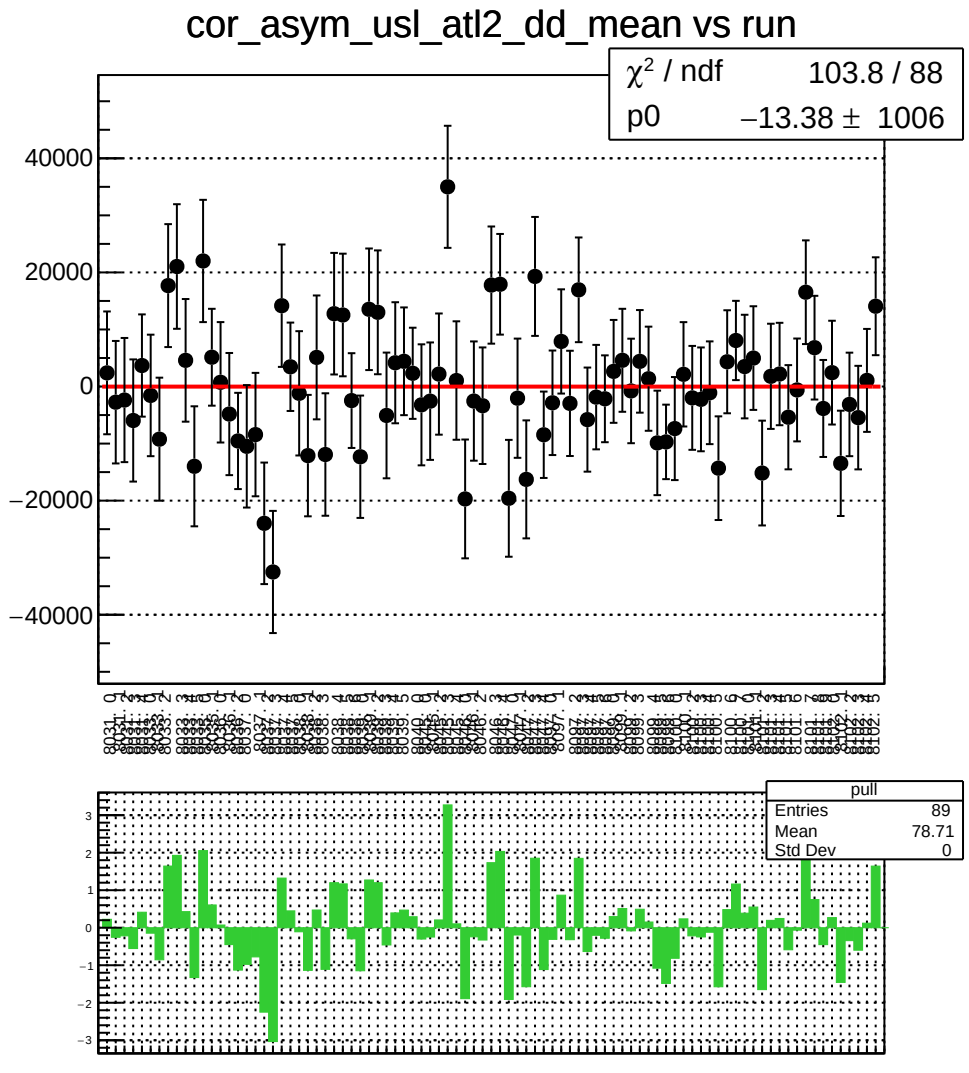

pull1D
Entries 89
Mean 0.003348
Std Dev 1.08
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

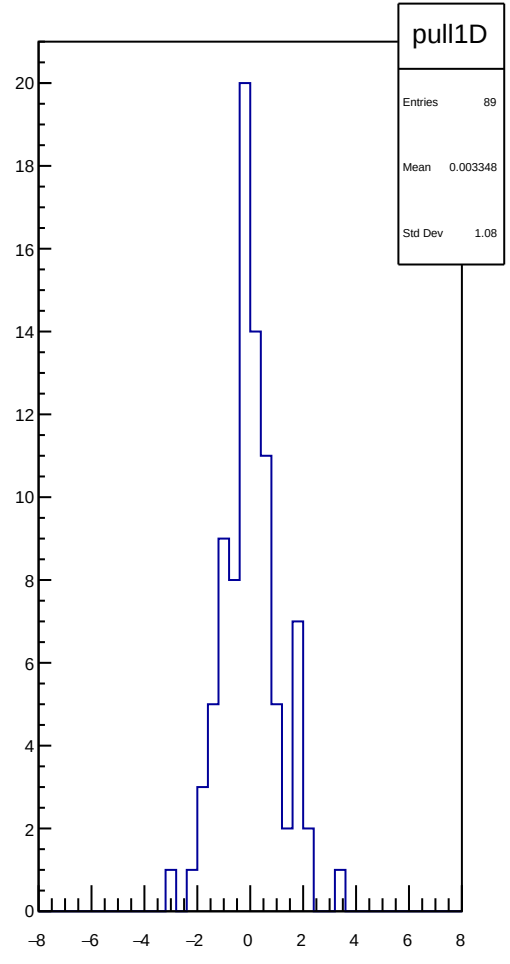

reg_asym_usl_atl2_dd_rms vs run
$\chi^2$ / ndf 1.139e+04 / 88
p0 937.5 ± 0.7115
1050
1000
950
900
850

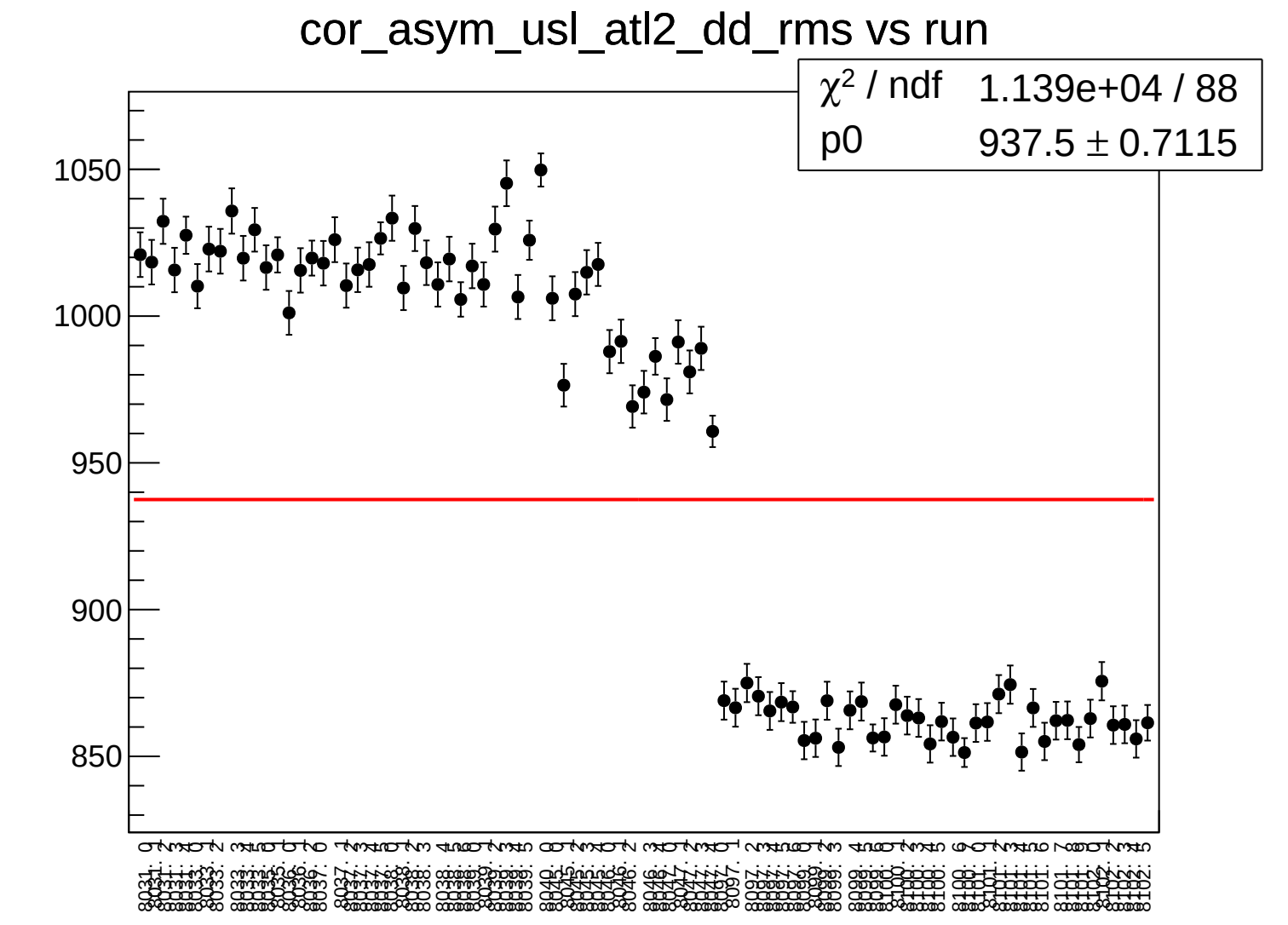

asym_usl_atl2_dd_reg_correction_mean vs run
χ² / ndf 97.48 / 88
p0 −1826 ± 4314
×10³
pull
Entries 89
Mean −201.2
Std Dev 0

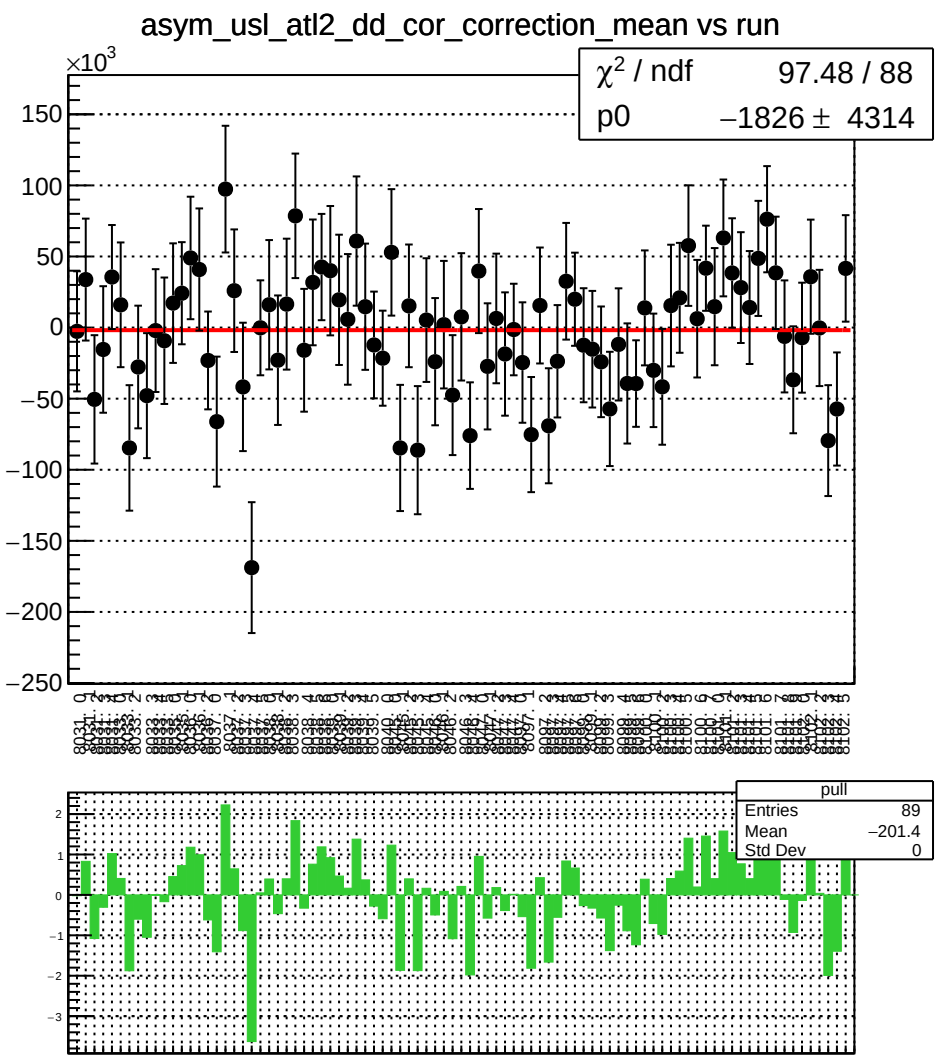

pull1D
Entries 89
Mean −0.006783
Std Dev 1.047

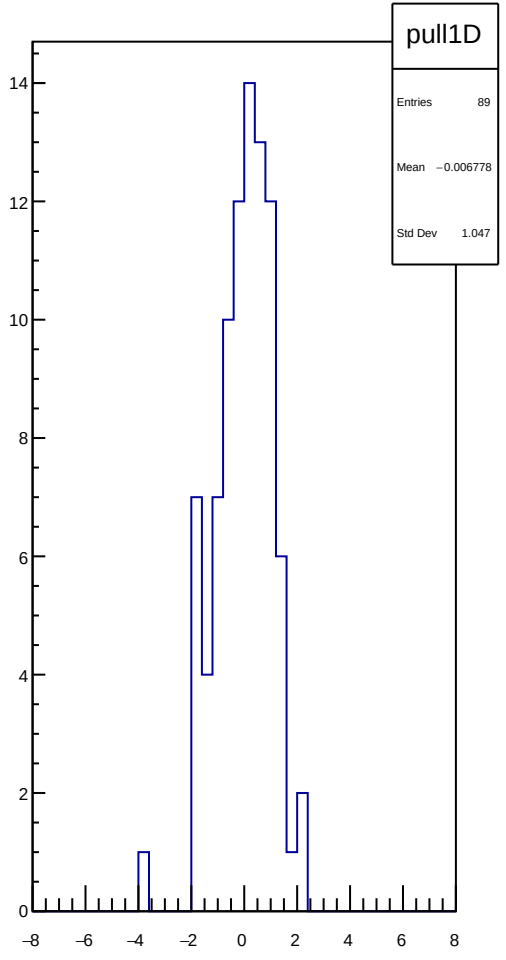

asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 6078 / 88
p0 4026 ± 3.051
4600
4400
4200
4000
3800
3600

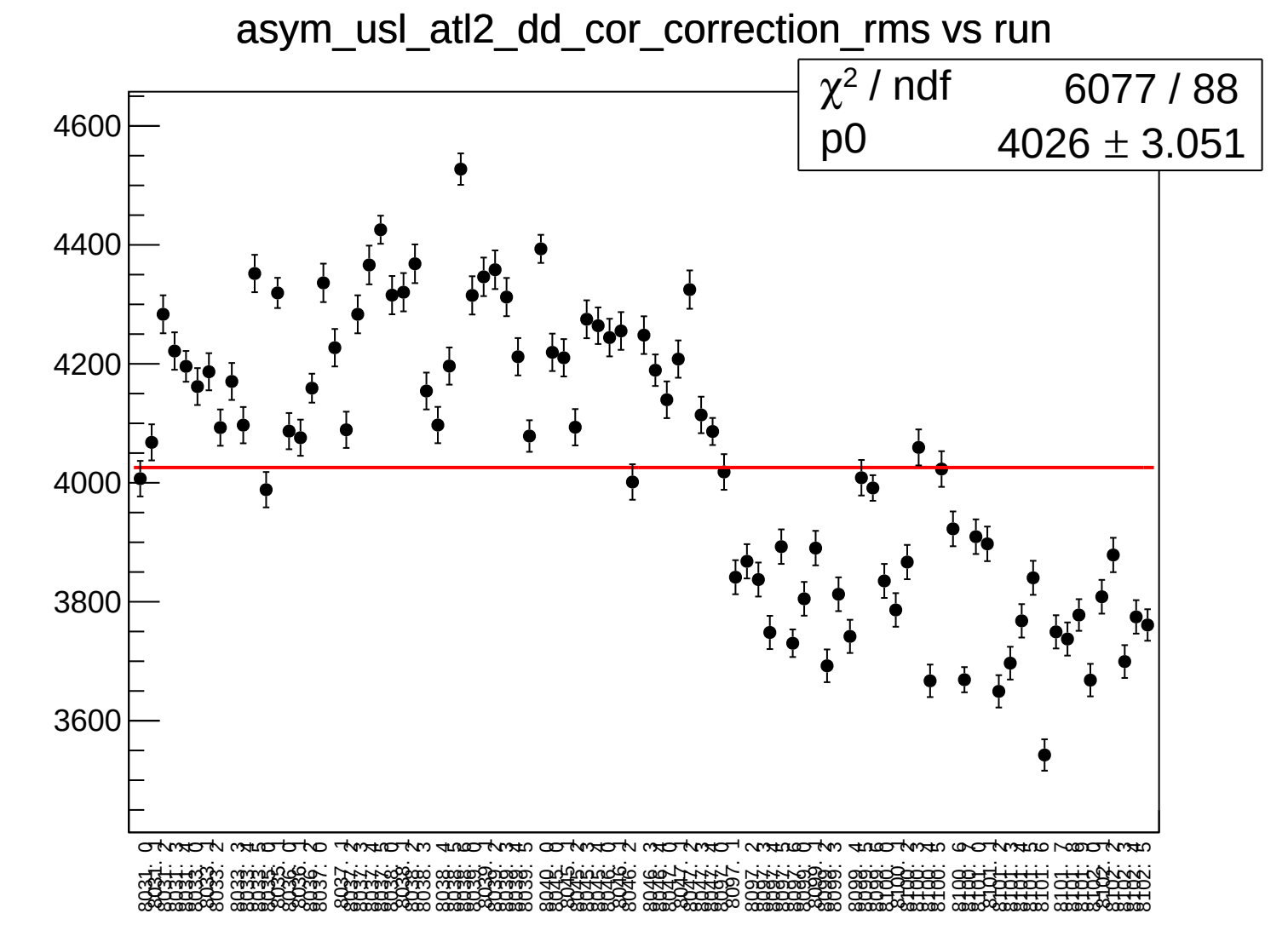

cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 103.8 / 88
p0 −13.38 ± 1006
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 78.71
Std Dev 0
3
2
1
0
−1
−2
−3

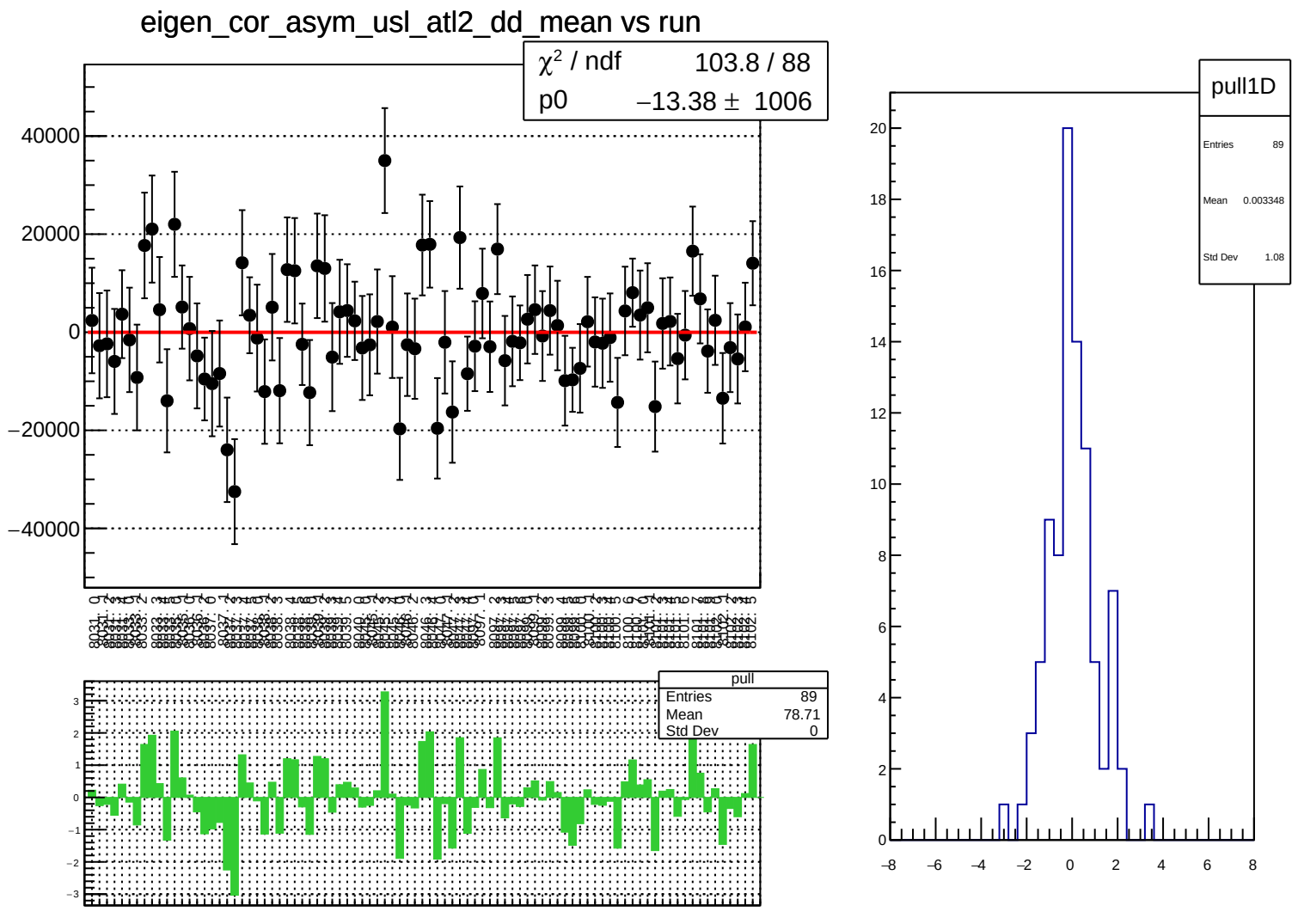

pull1D
Entries 89
Mean 0.003348
Std Dev 1.08
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

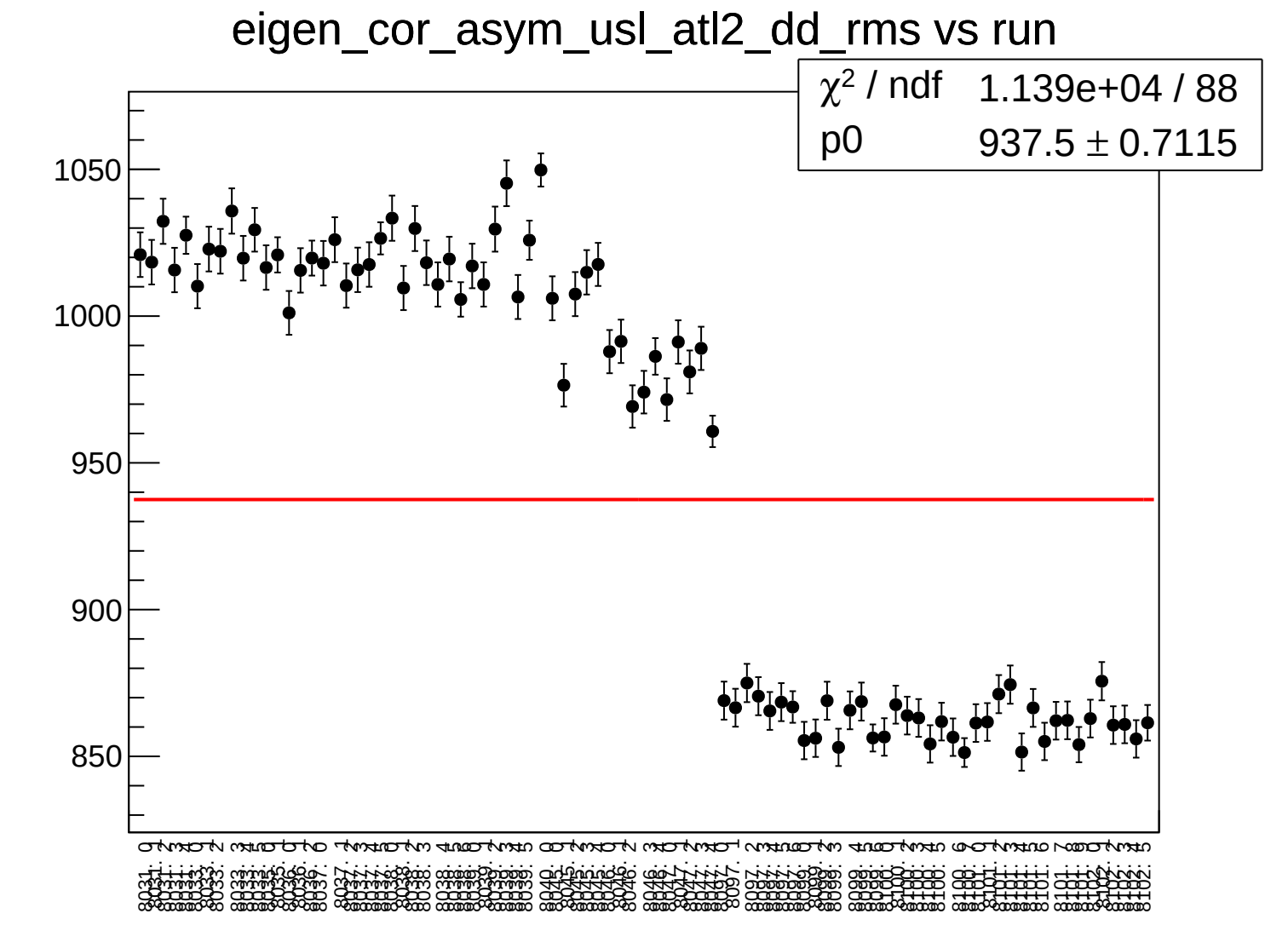

cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 1.139e+04 / 88
p0 937.5 ± 0.7115
1050
1000
950
900
850

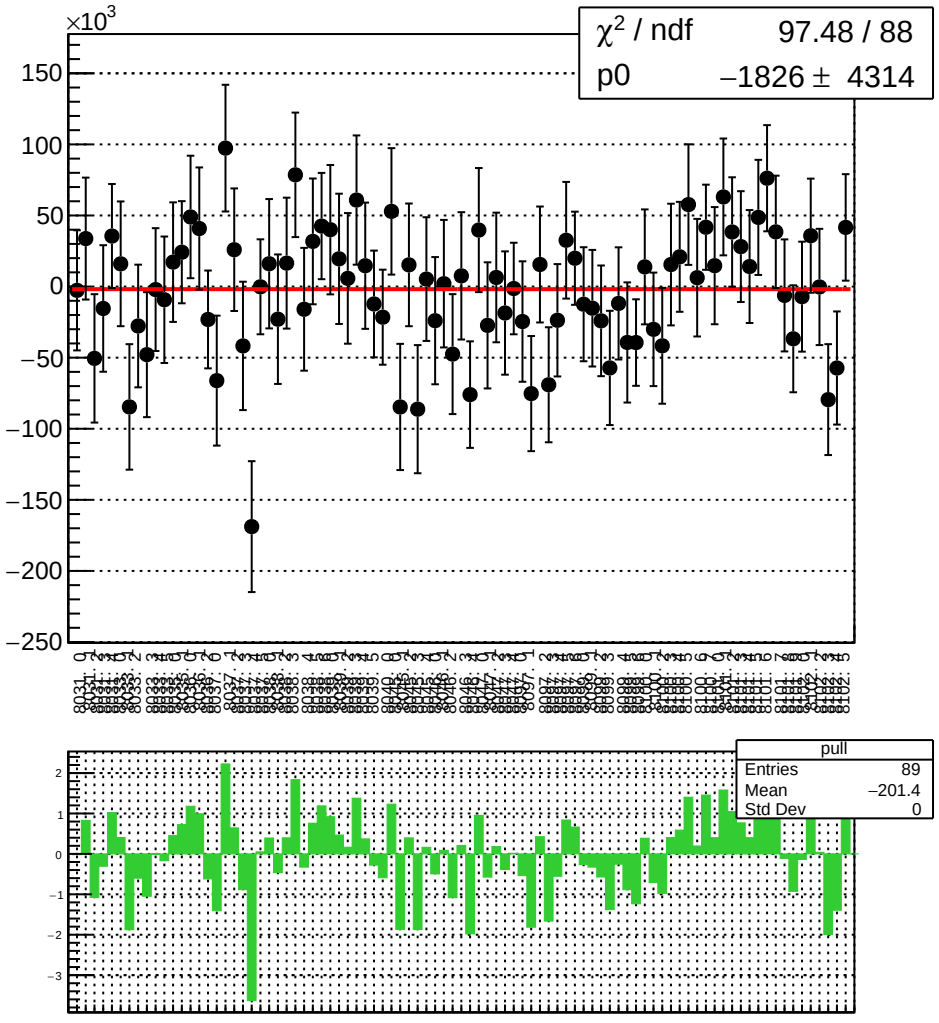

asym_usl_atl2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 97.48 / 88
p0 −1826 ± 4314
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 89
Mean −201.4
Std Dev 0
2
1
0
−1
−2
−3

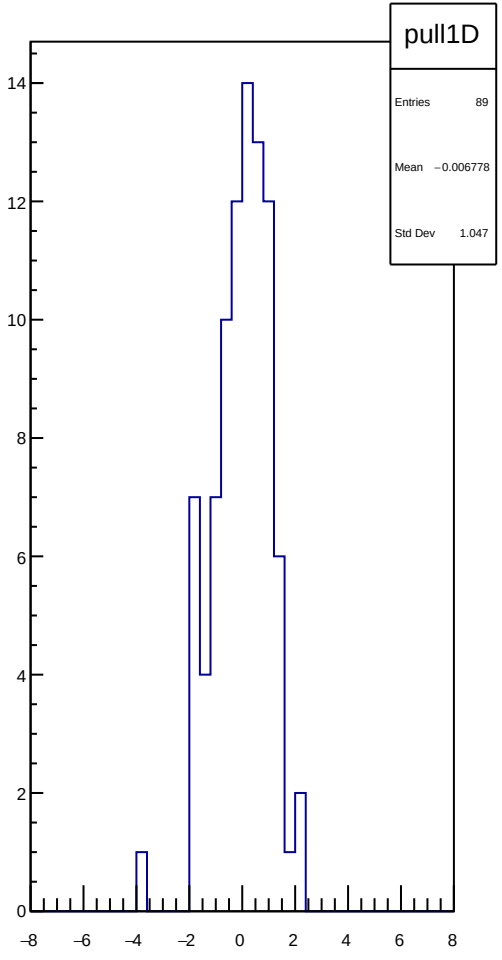

pull1D
Entries 89
Mean −0.006778
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

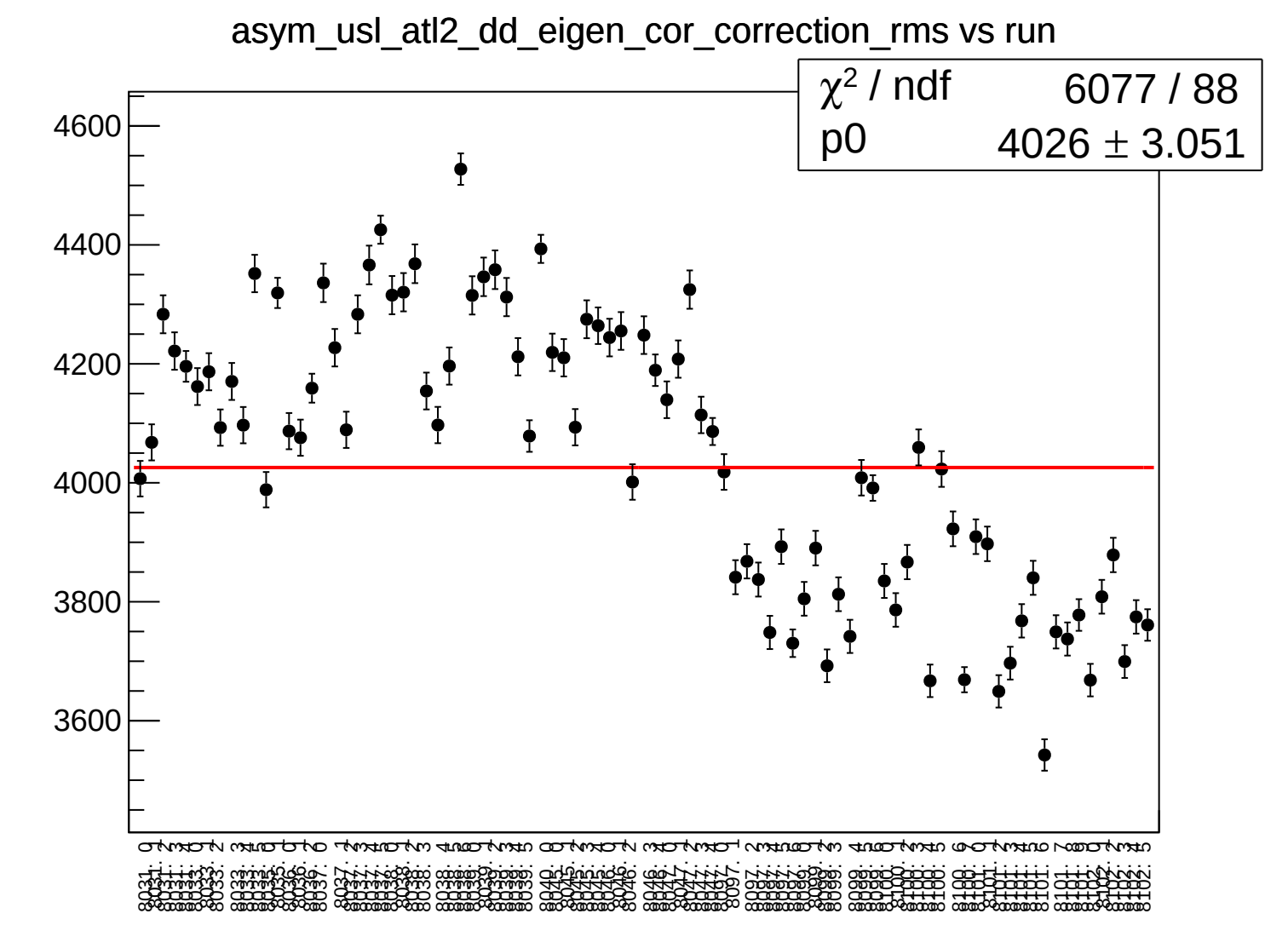

asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 6077 / 88
p0 4026 ± 3.051
4600
4400
4200
4000
3800
3600

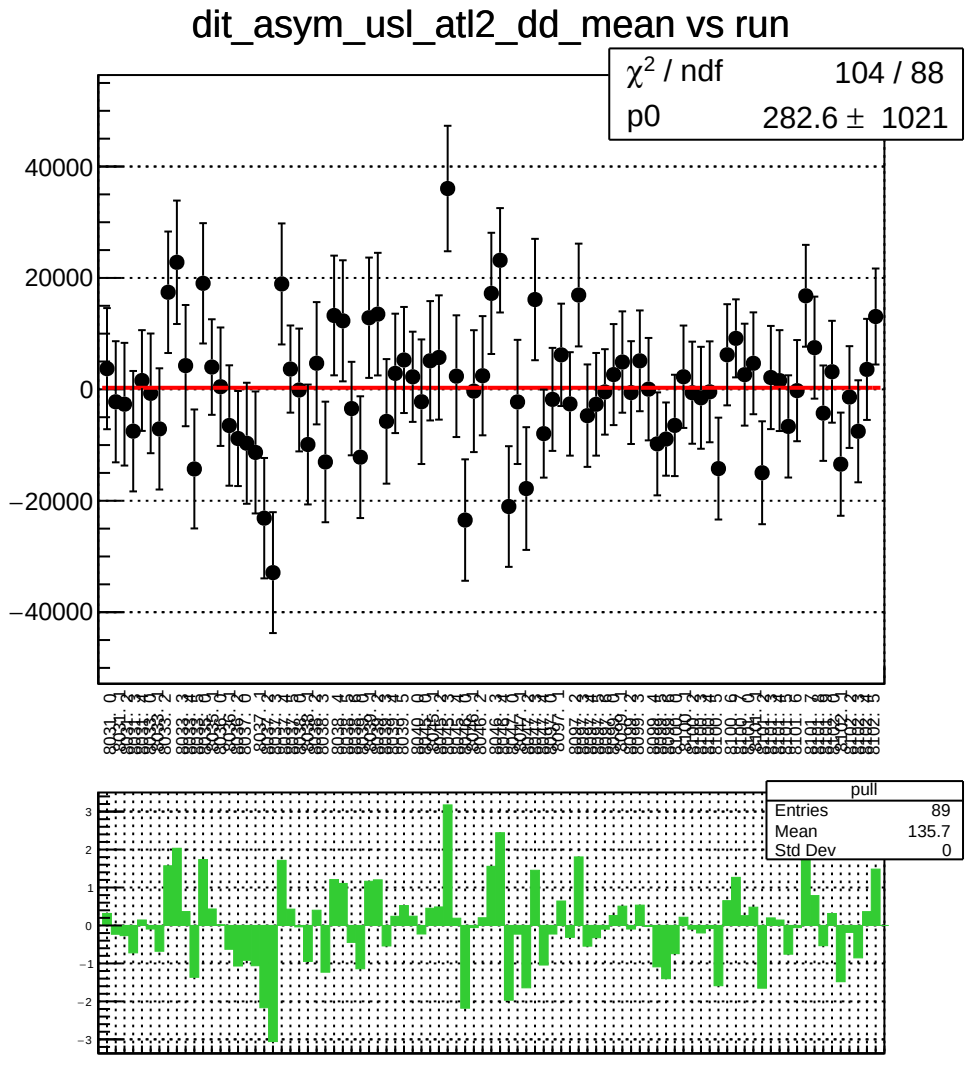

eigen_cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 103.8 / 88
p0 −13.38 ± 1006
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 78.71
Std Dev 0
pull1D
Entries 89
Mean 0.003348
Std Dev 1.08

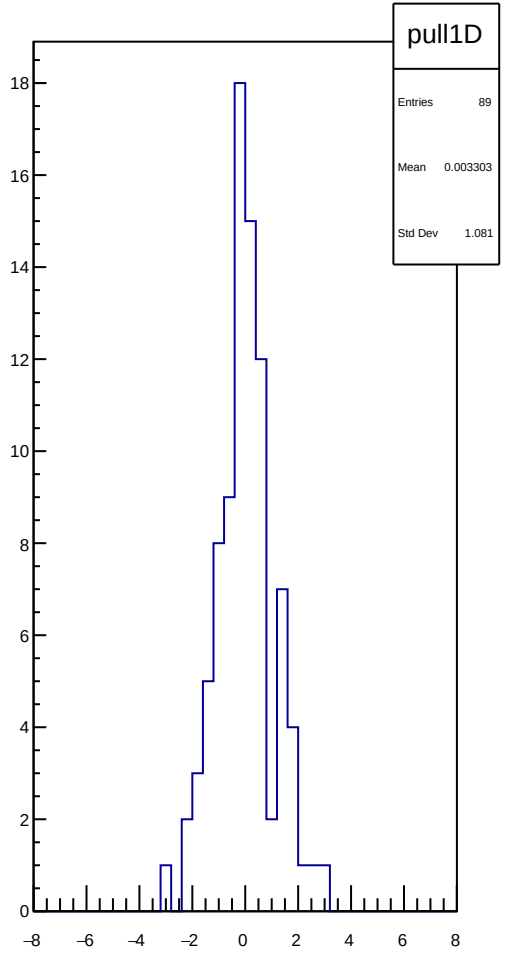

eigen_cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 1.139e+04 / 88
p0 937.5 ± 0.7115
1050
1000
950
900
850

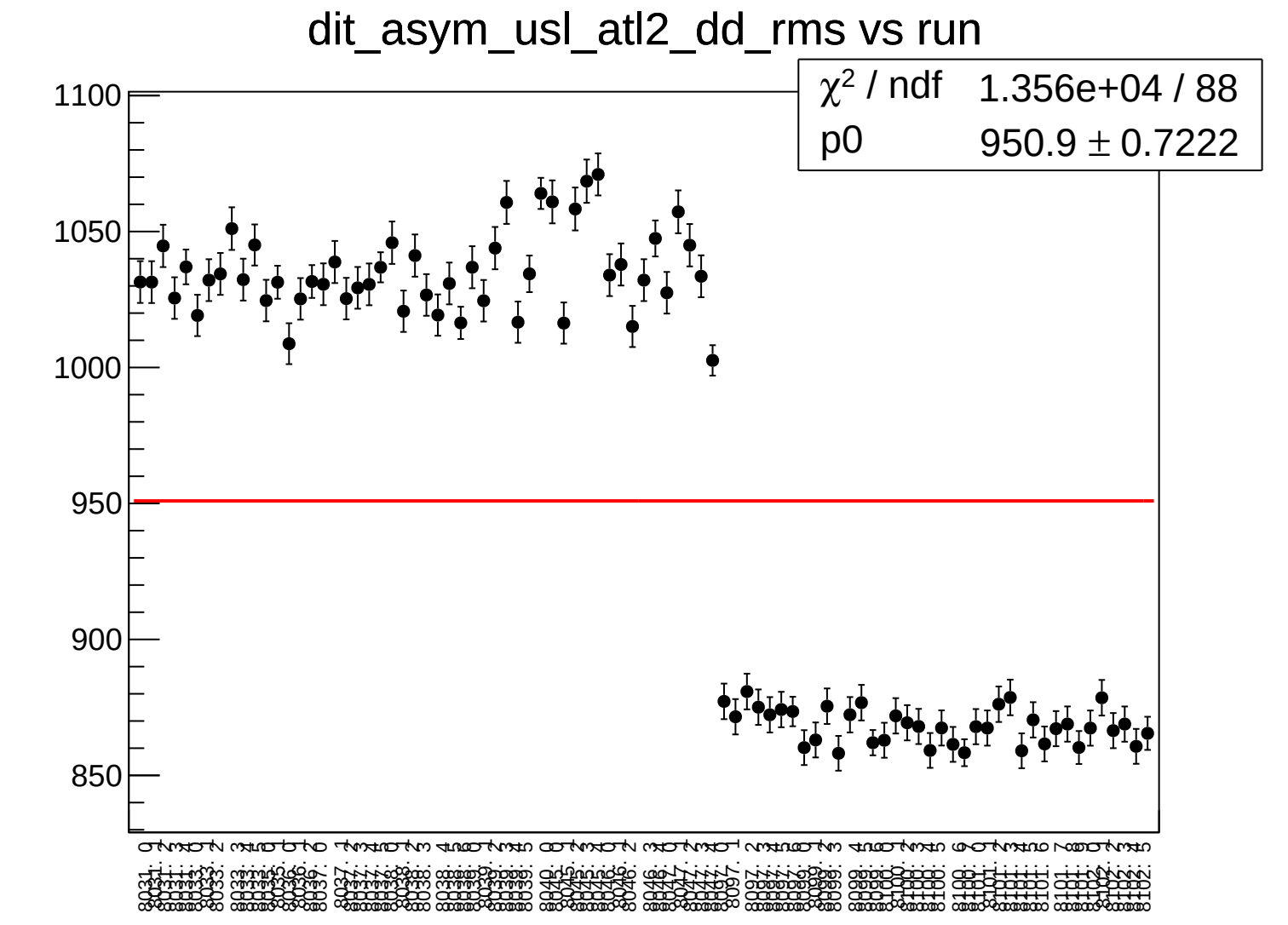

asym_usl_atl2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 97.48 / 88
p0 −1826 ± 4314
pull
Entries 89
Mean −201.4
Std Dev 0

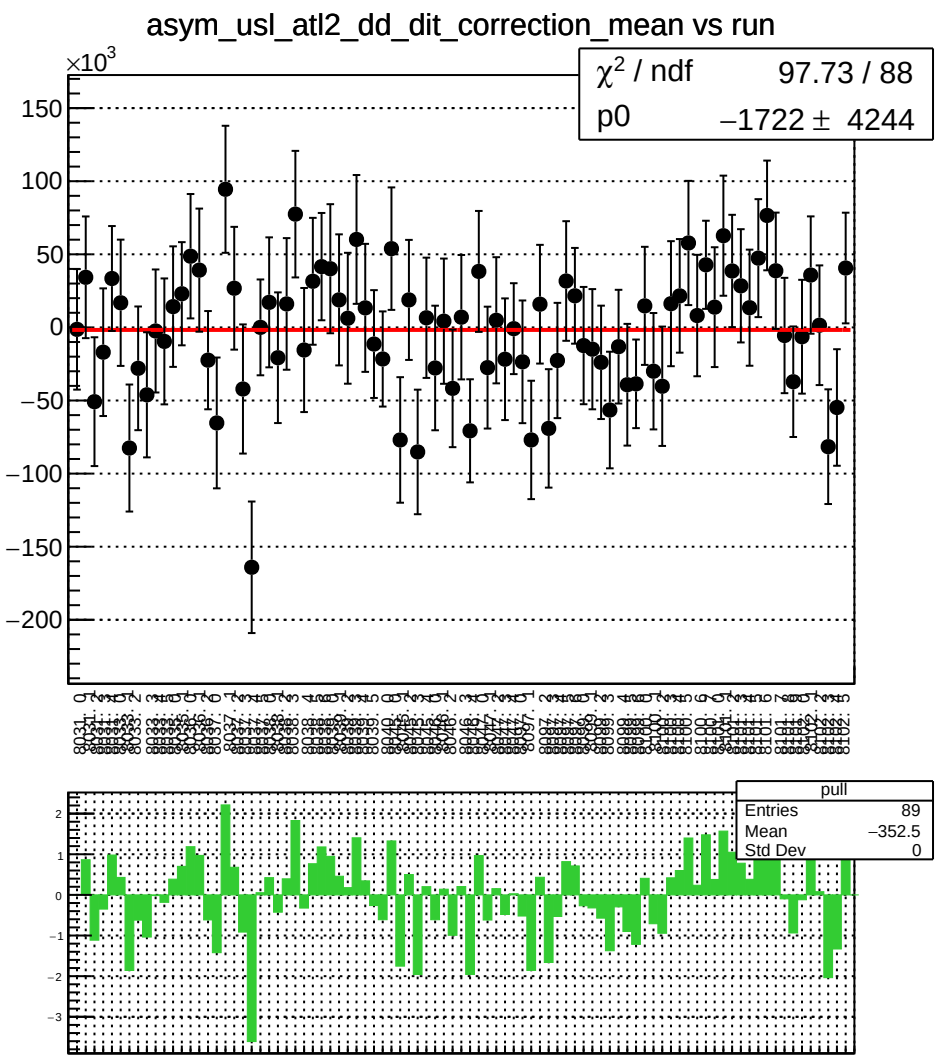

pull1D
Entries 89
Mean −0.006778
Std Dev 1.047

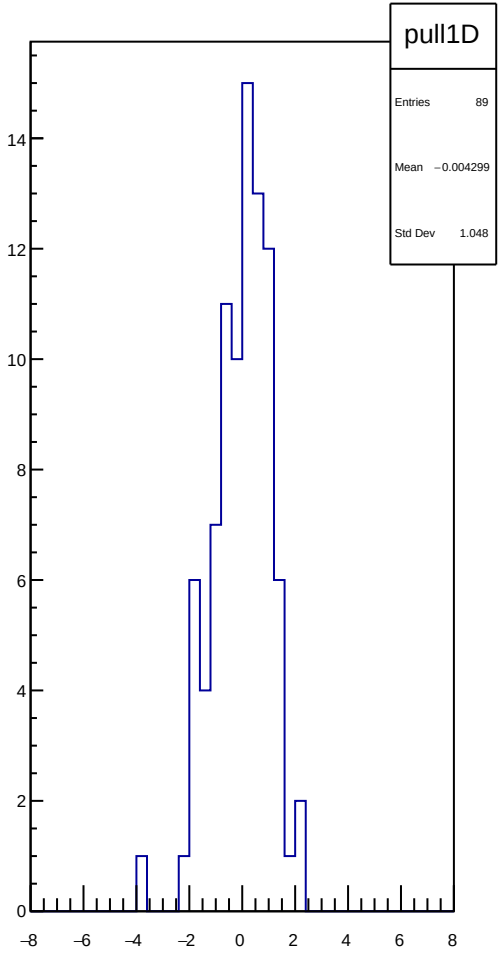

asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 6077 / 88
p0 4026 ± 3.051
4600
4400
4200
4000
3800
3600

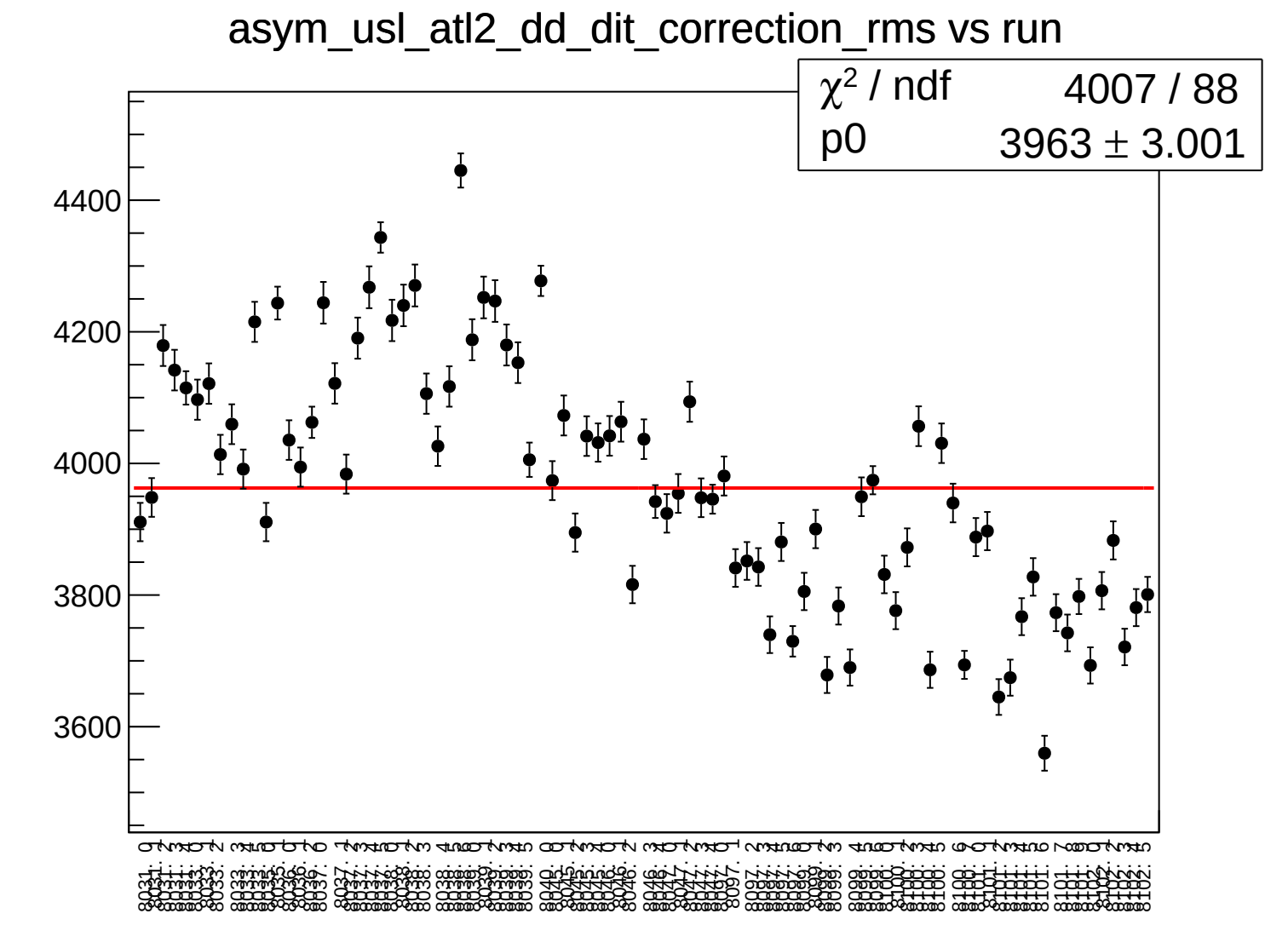

dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 104 / 88
p0 282.6 ± 1021
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 135.7
Std Dev 0
3
2
1
0
−1
−2
−3

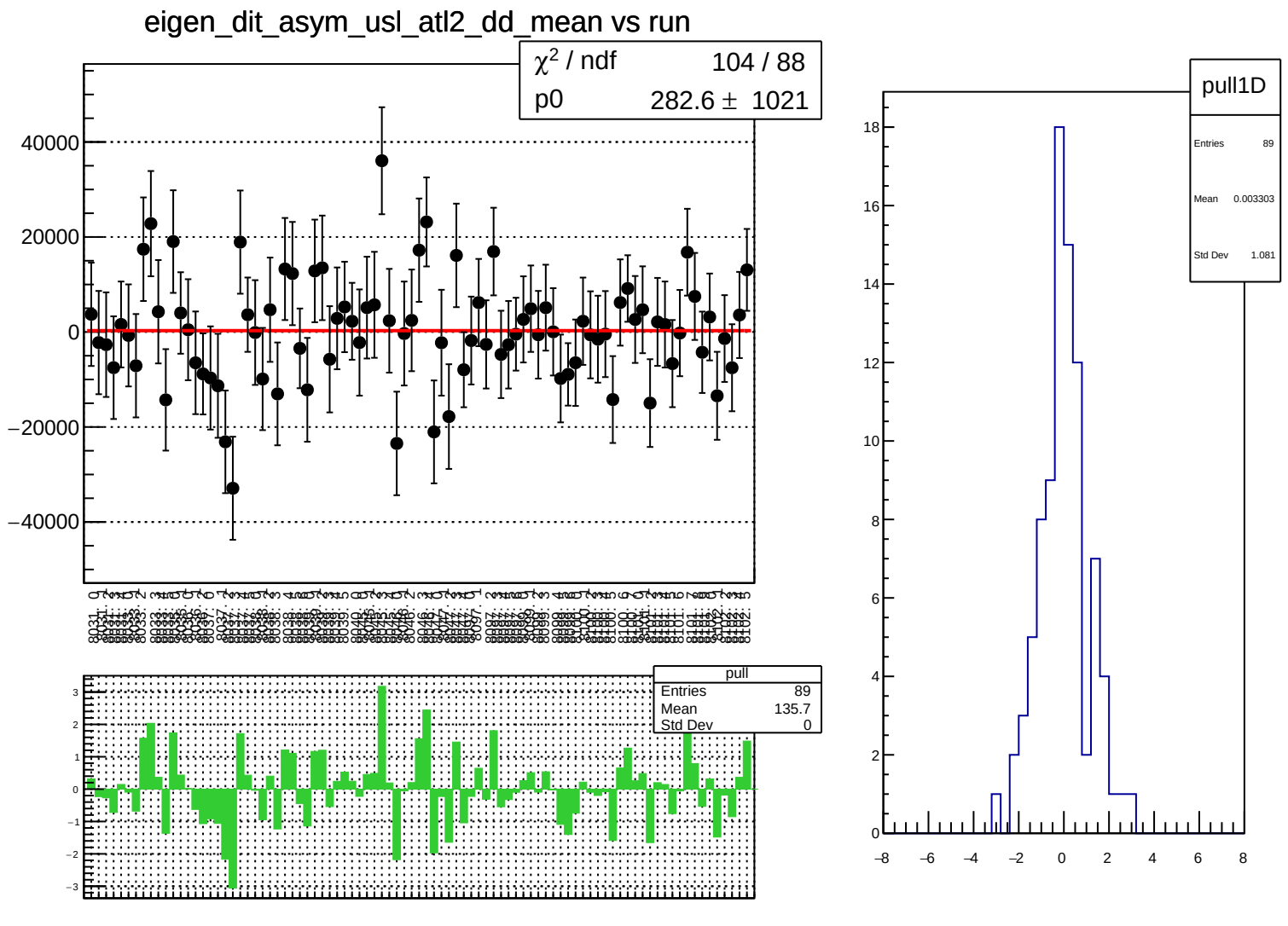

pull1D
Entries 89
Mean 0.003303
Std Dev 1.081
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

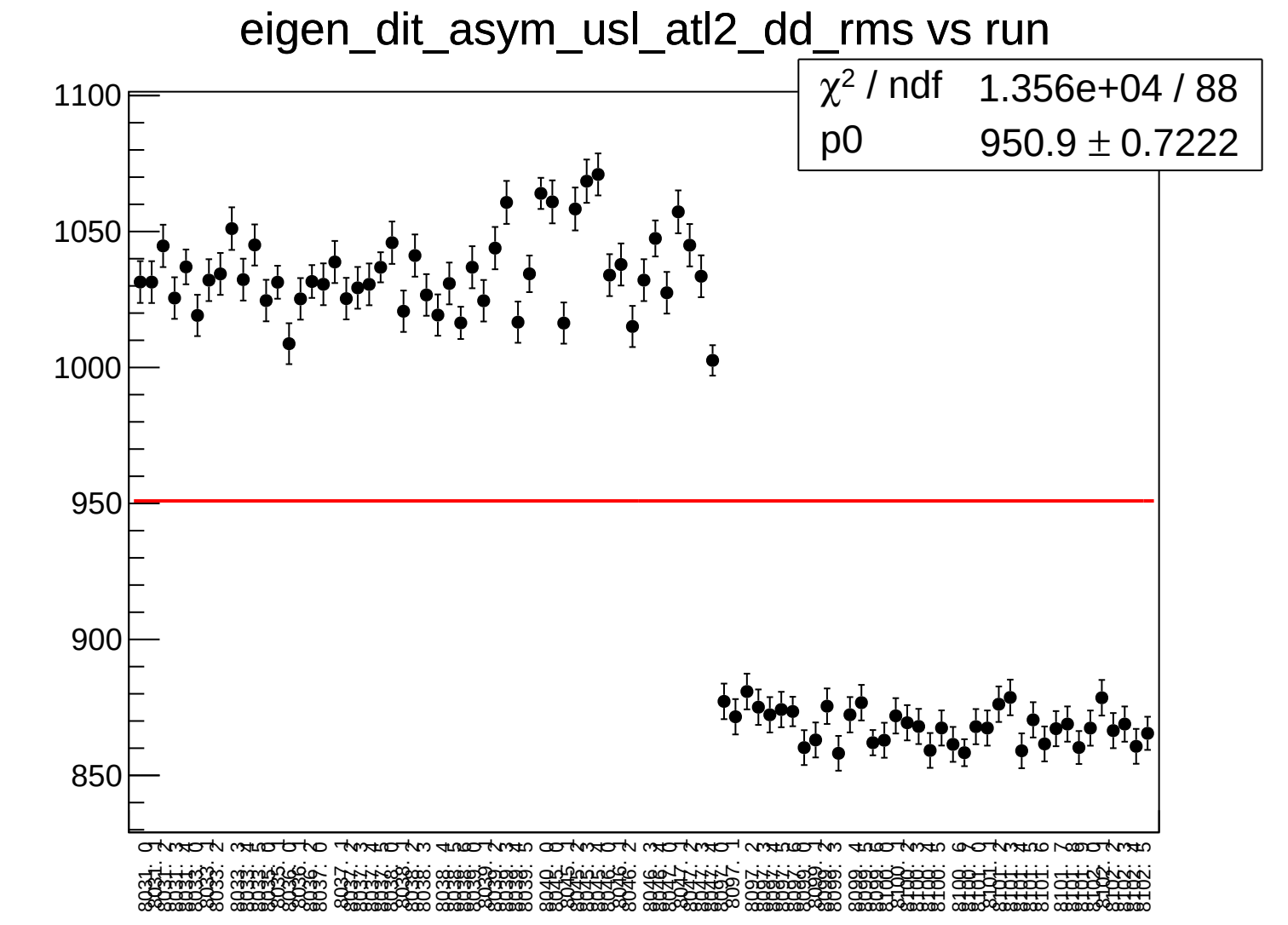

dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 1.356e+04 / 88
p0 950.9 ± 0.7222
1100
1050
1000
950
900
850

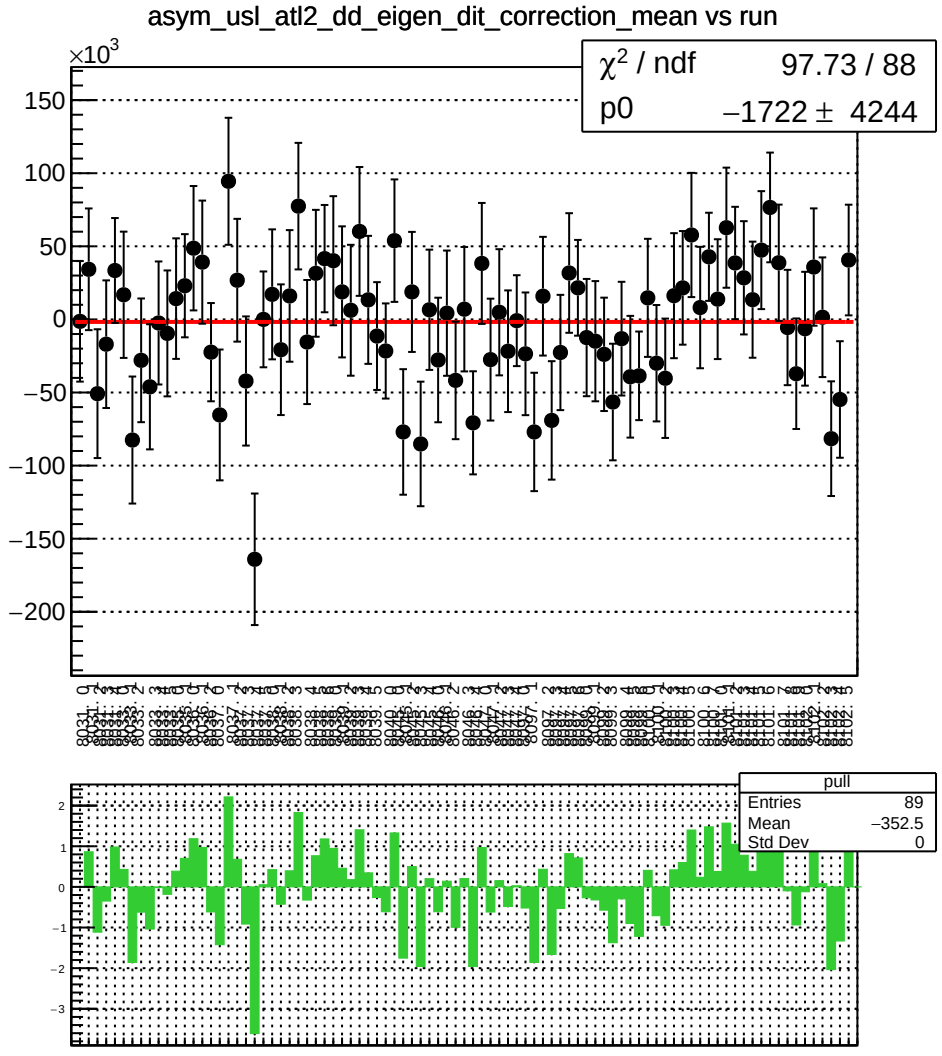

asym_usl_atl2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 97.73 / 88
p0 −1722 ± 4244
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean −352.5
Std Dev 0
2
1
0
−1
−2
−3

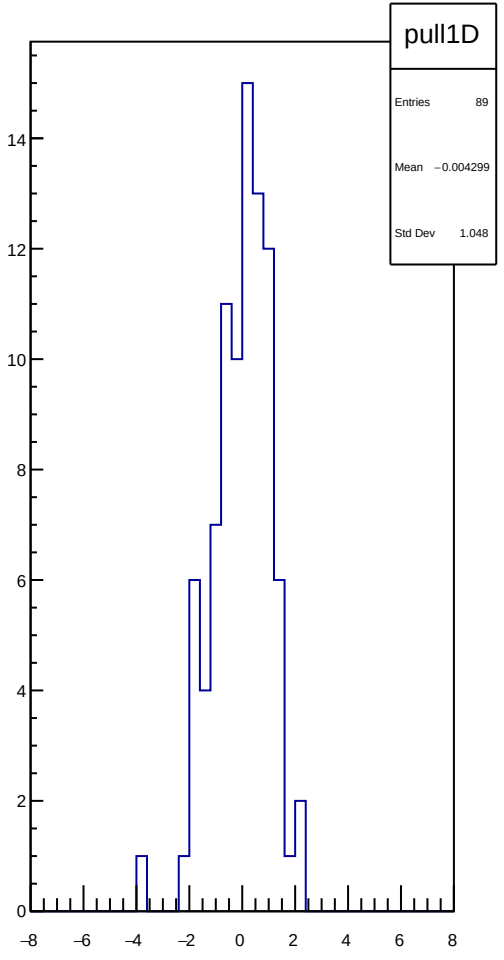

pull1D
Entries 89
Mean −0.004299
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

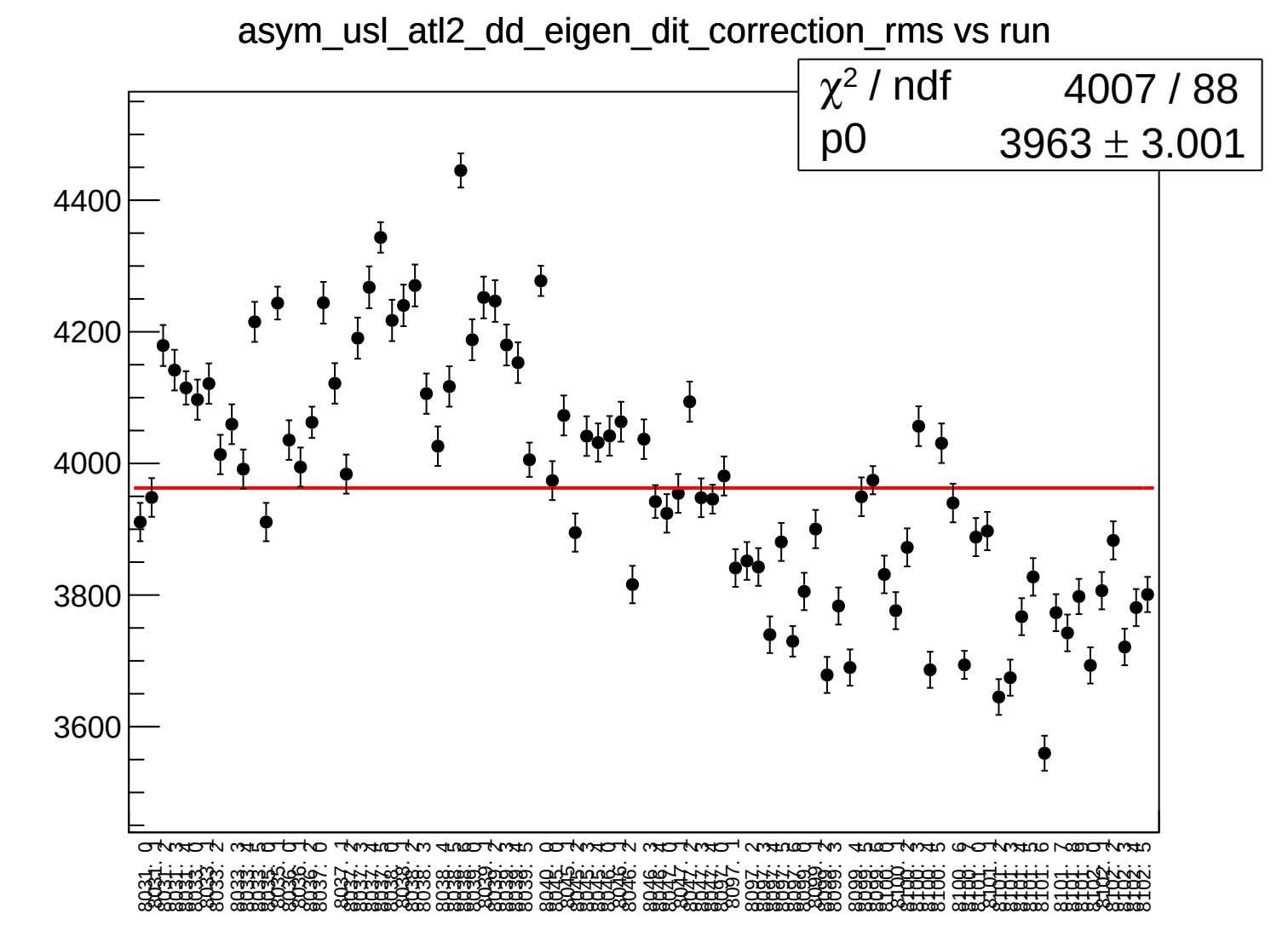

asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 4007 / 88
p0 3963 ± 3.001
4400
4200
4000
3800
3600

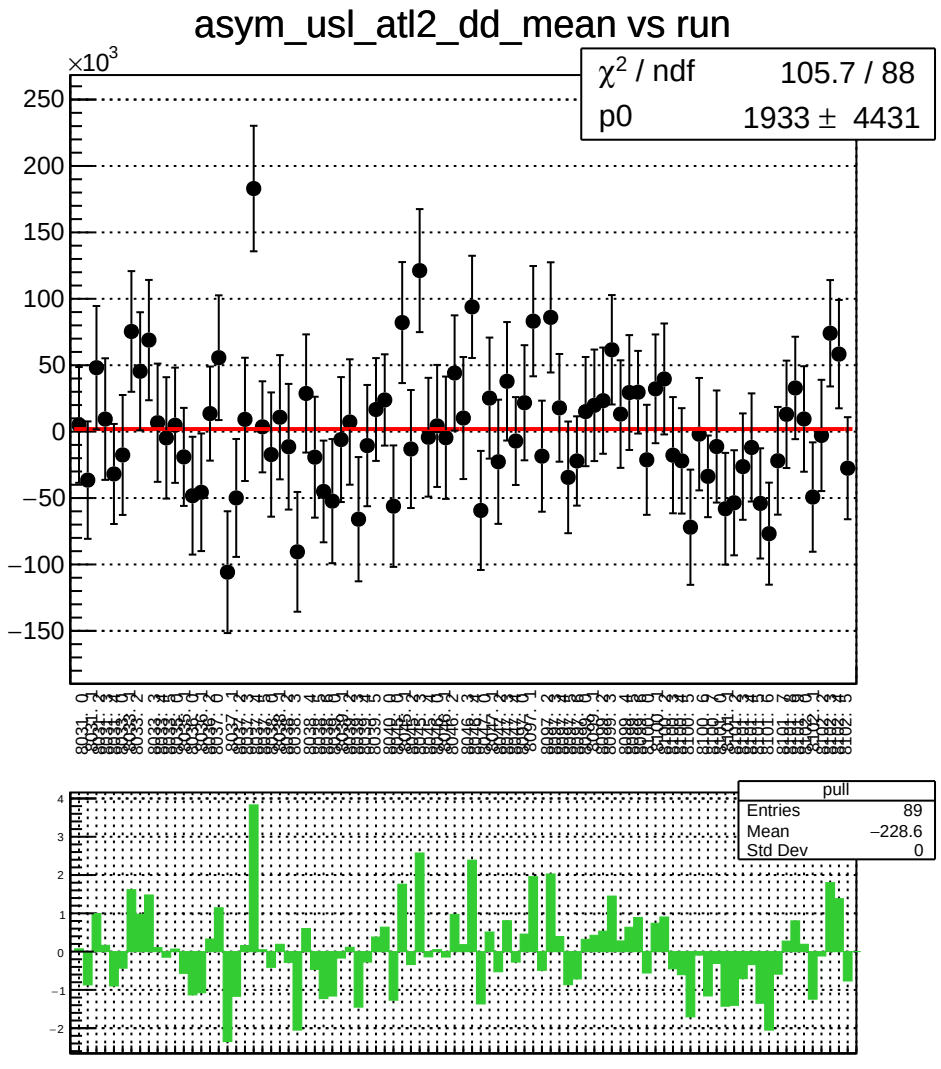

eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 104 / 88
p0 282.6 ± 1021
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 135.7
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.003303
Std Dev 1.081
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

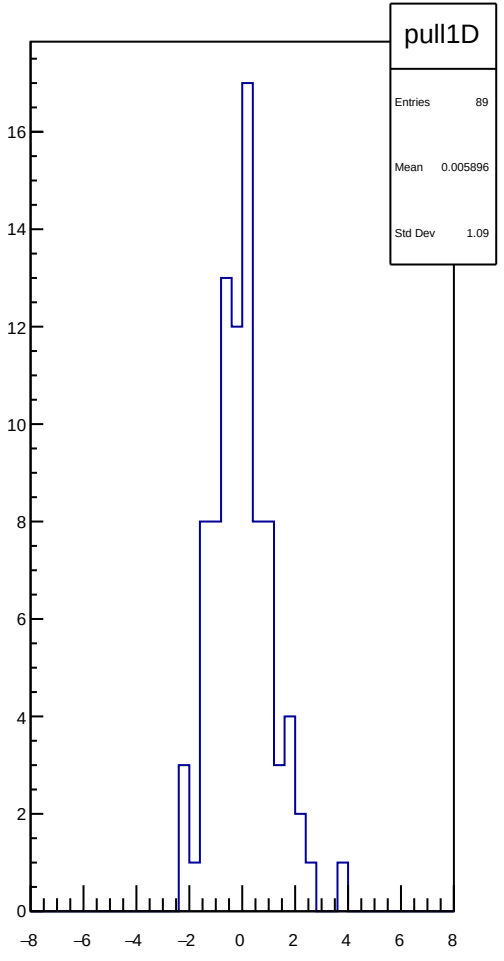

eigen_dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 1.356e+04 / 88
p0 950.9 ± 0.7222
1100
1050
1000
950
900
850

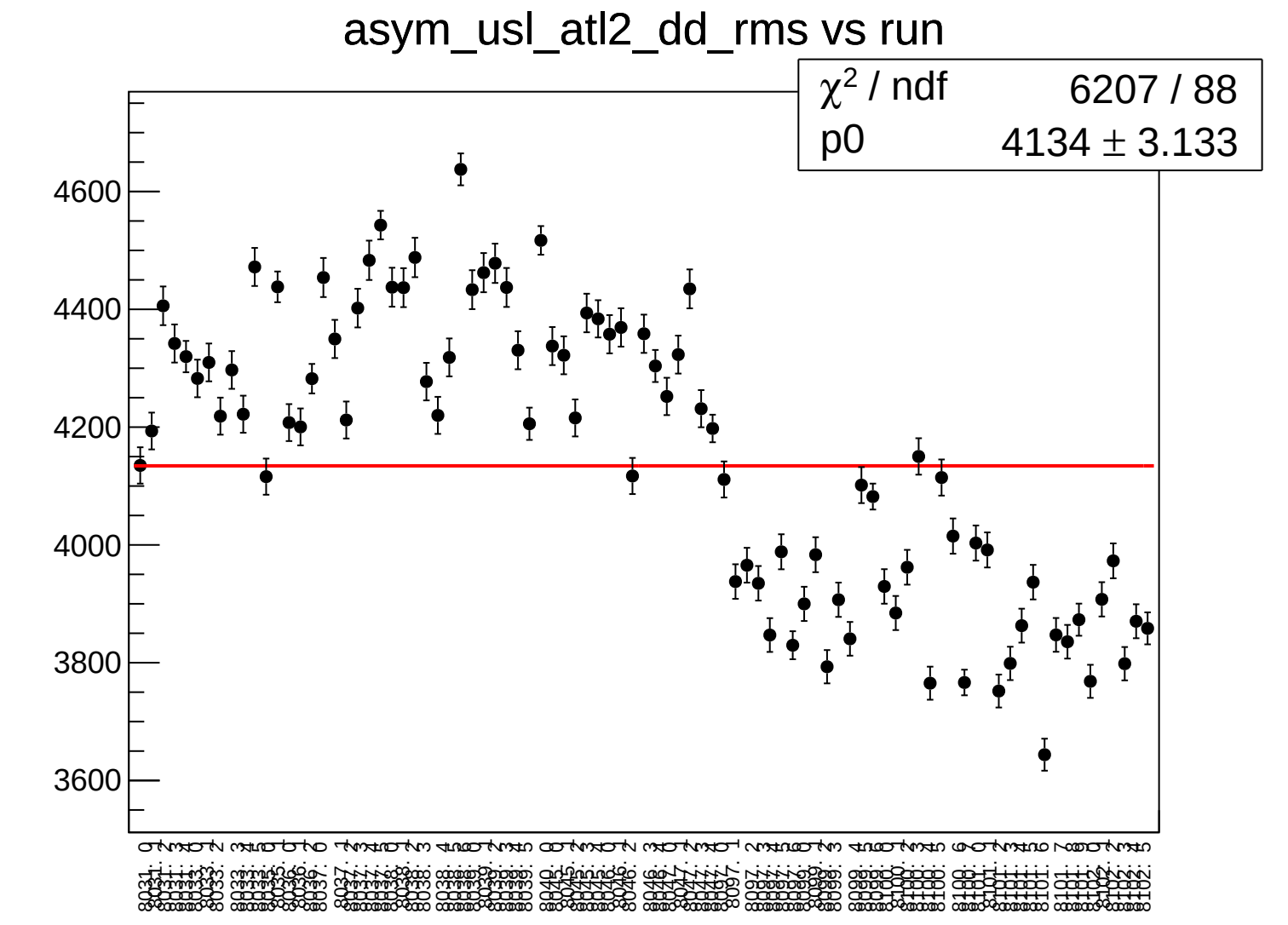

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 97.73 / 88
p0 −1722 ± 4244
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean −352.5
Std Dev 0
2
1
0
−1
−2
−3

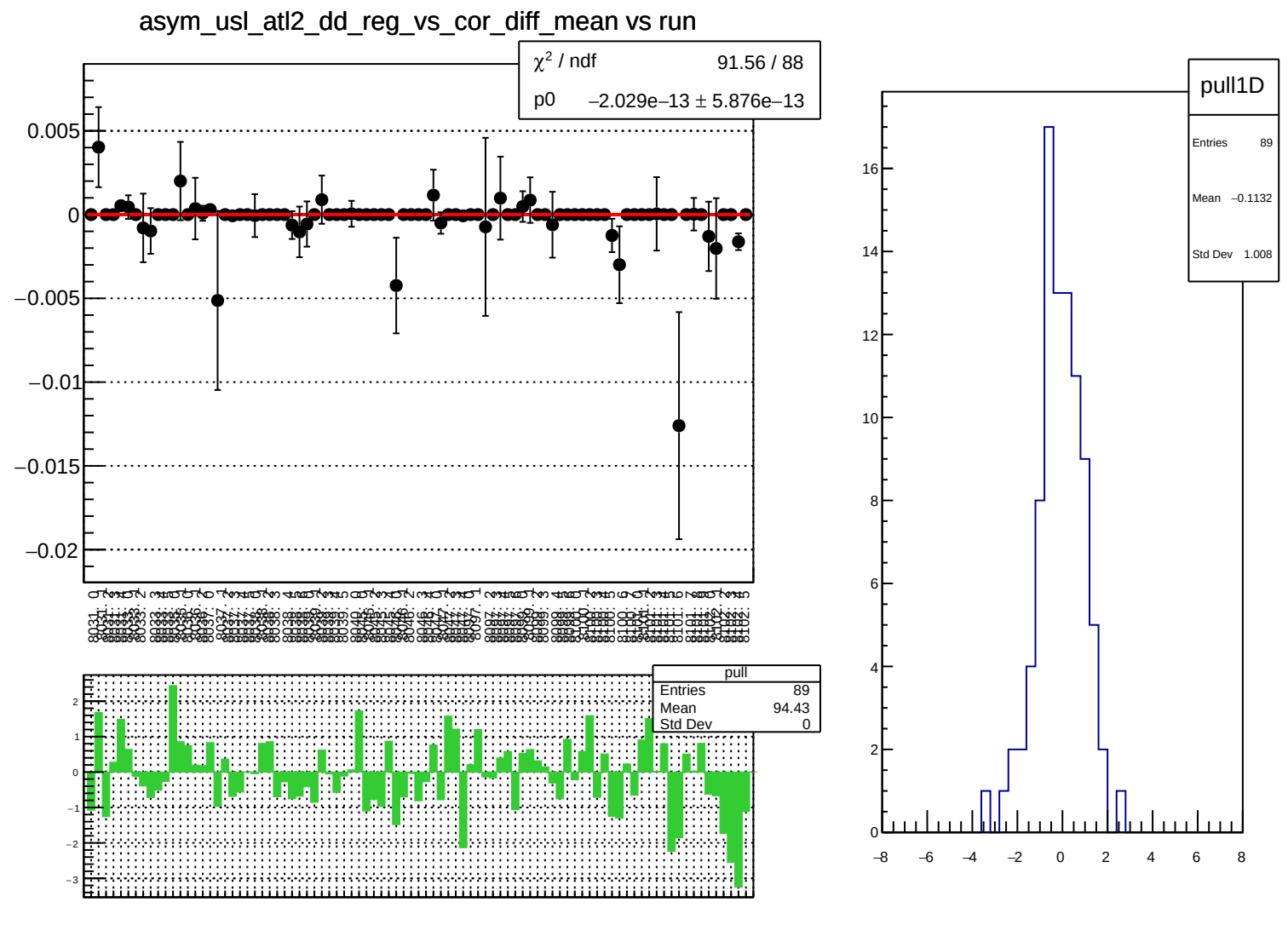

pull1D
Entries 89
Mean −0.004299
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

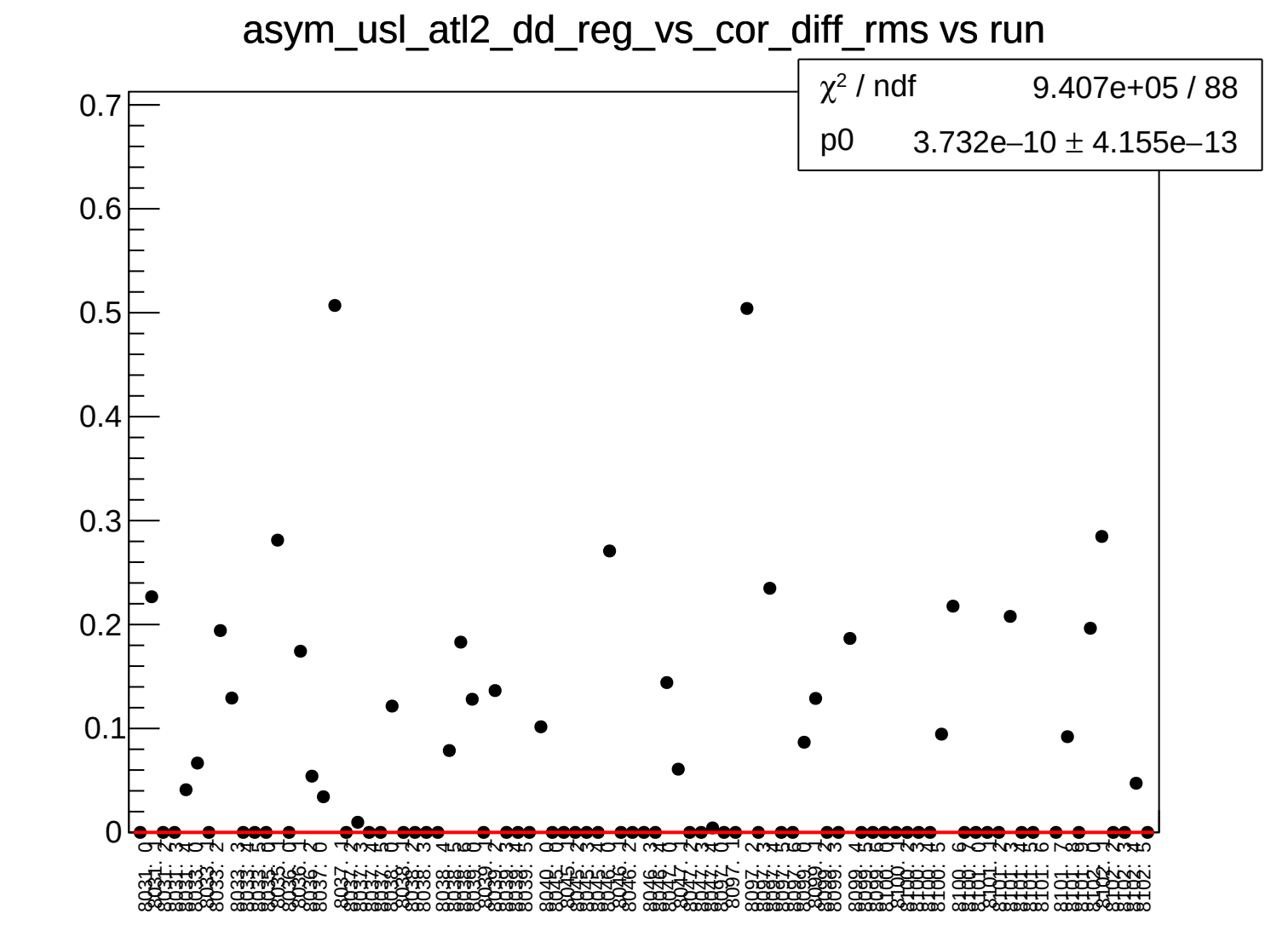

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 4007 / 88
p0 3963 ± 3.001
4400
4200
4000
3800
3600

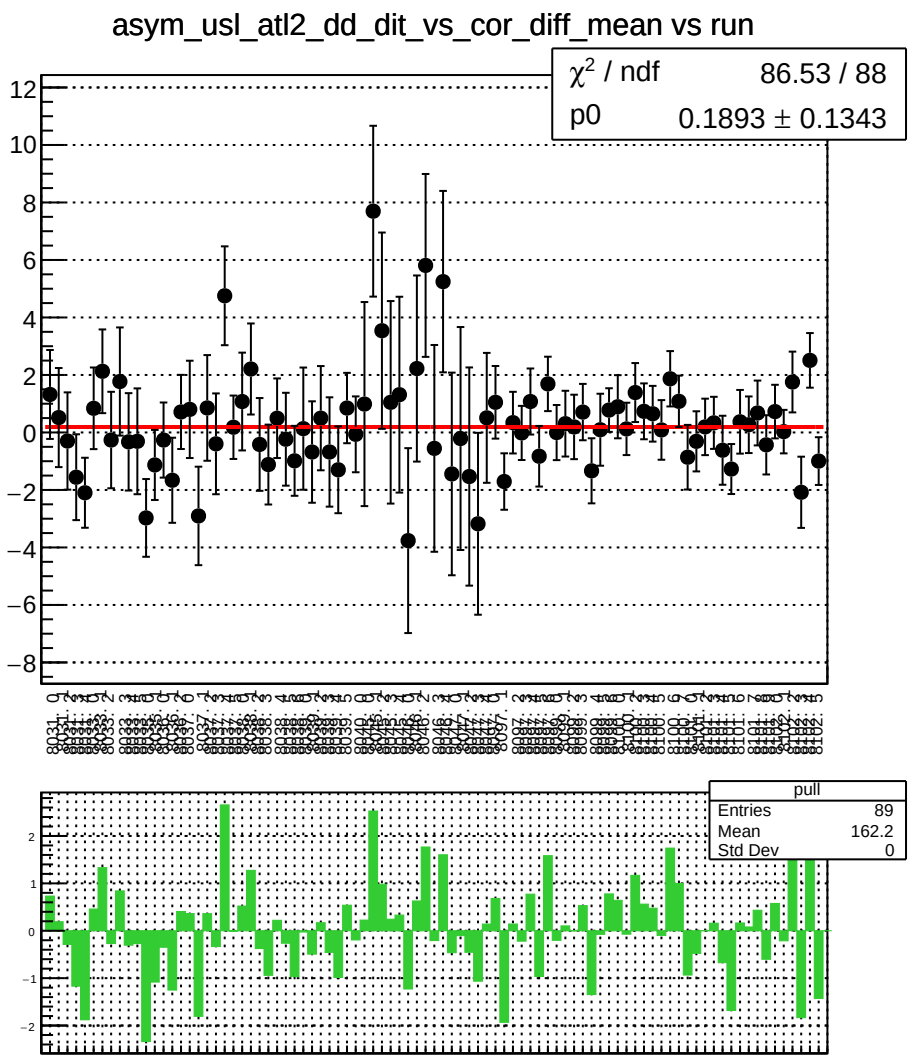

asym_usl_atl2_dd_mean vs run
×10^3
χ² / ndf 105.7 / 88
p0 1933 ± 4431
pull
Entries 89
Mean −228.6
Std Dev 0

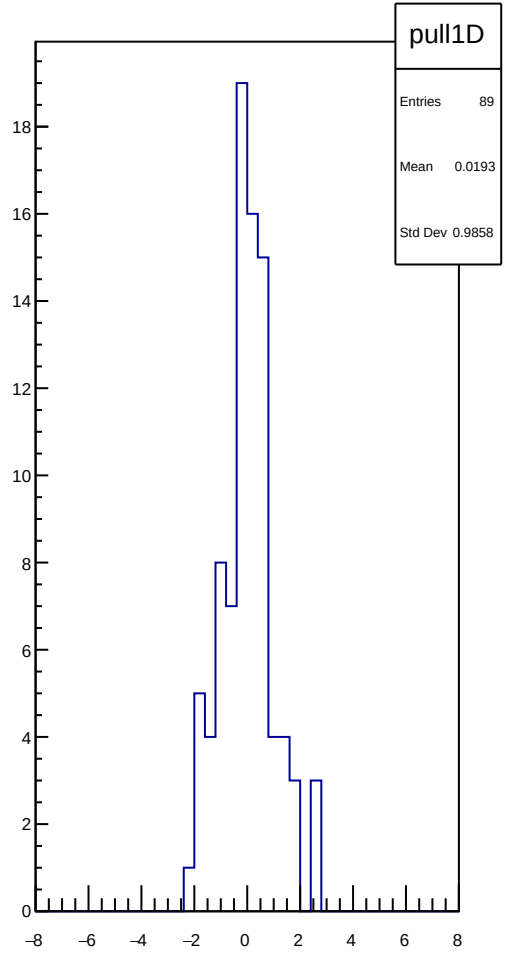

pull1D
Entries 89
Mean 0.005896
Std Dev 1.09

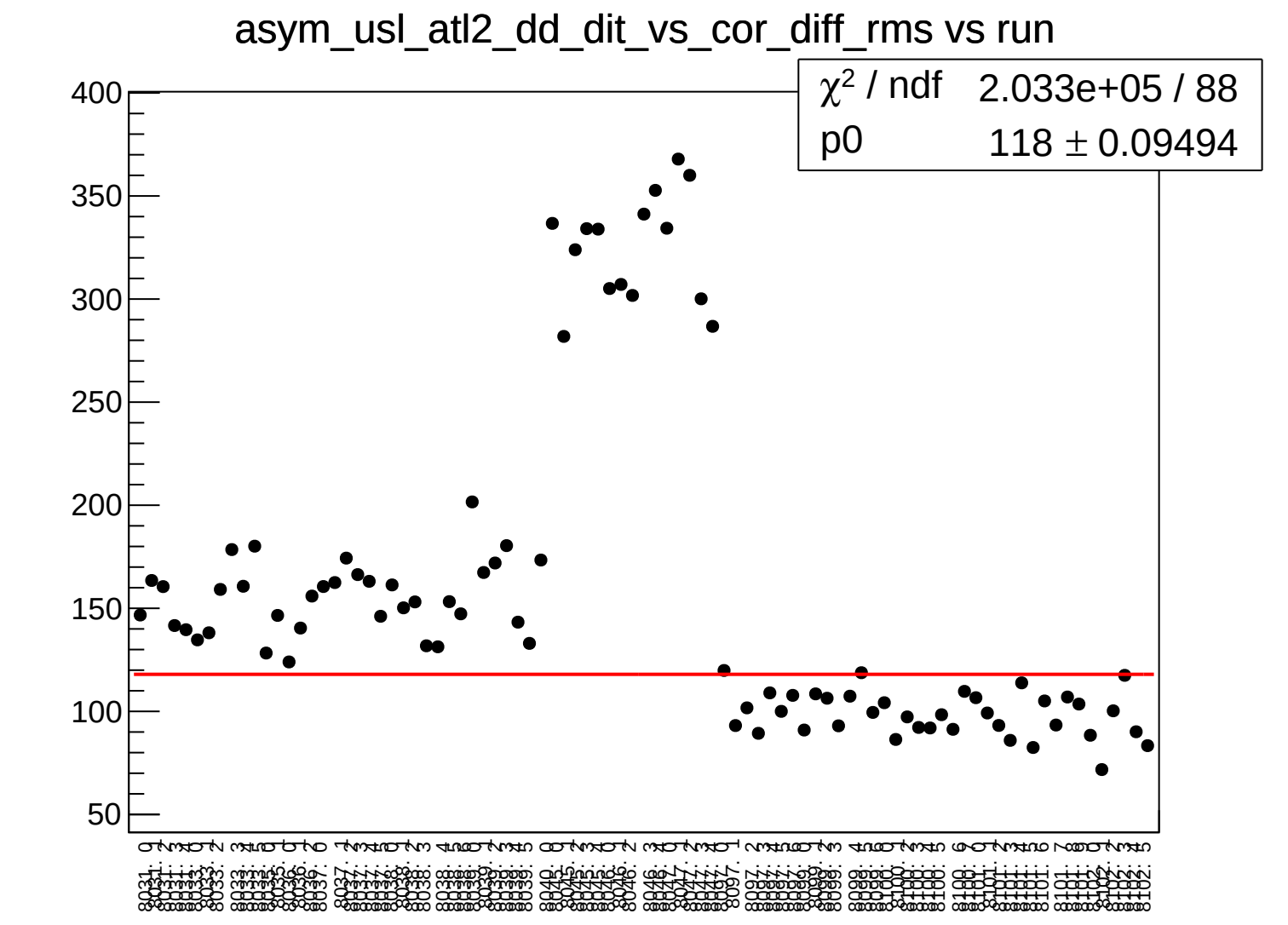

asym_usl_atl2_dd_rms vs run
χ² / ndf 6207 / 88
p0 4134 ± 3.133
4600
4400
4200
4000
3800
3600

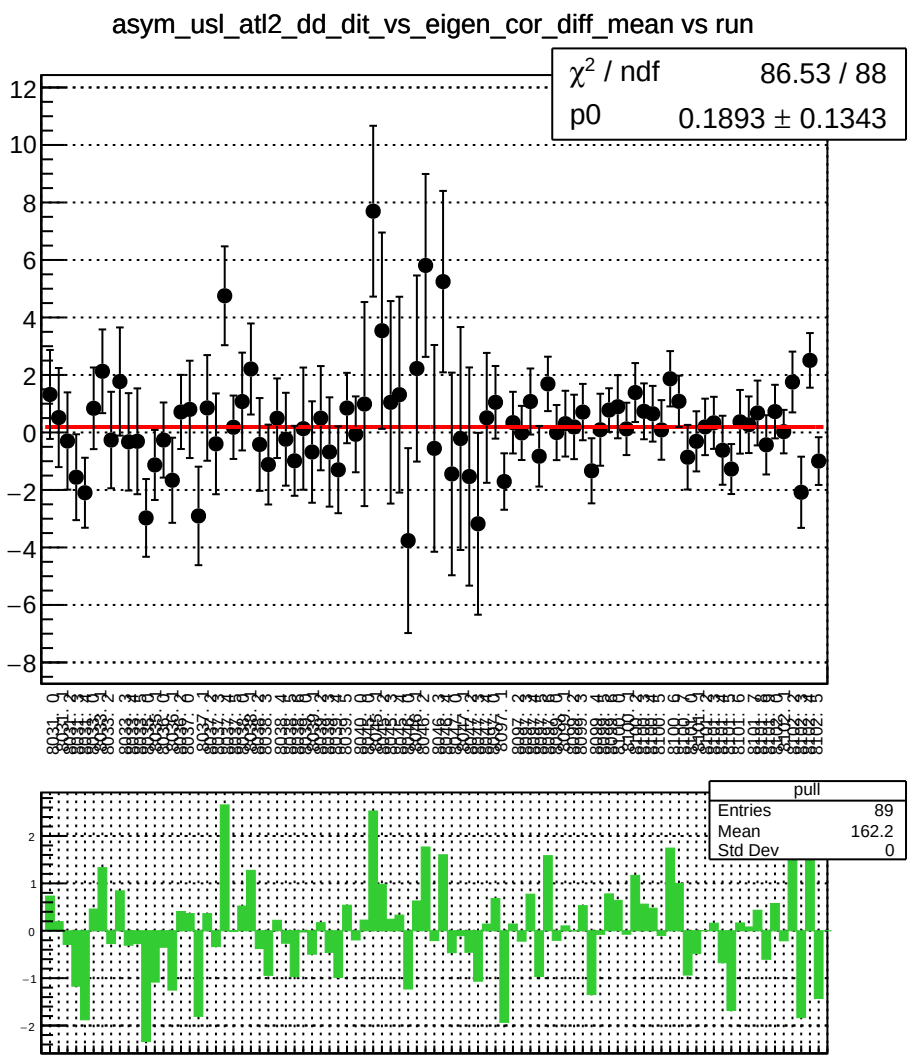

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 91.56 / 88
p0 −2.029e−13 ± 5.876e−13
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 89
Mean 94.43
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.1132
Std Dev 1.008
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

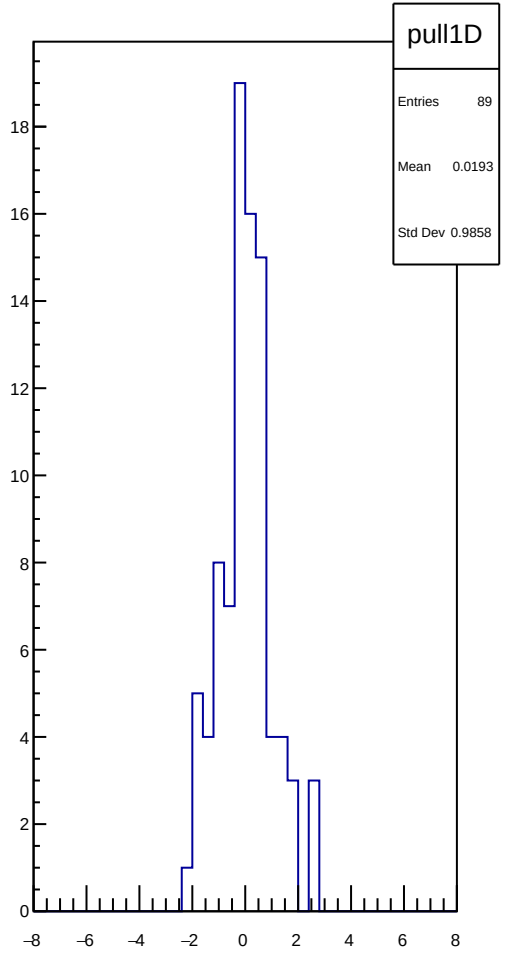

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.407e+05 / 88
p0 3.732e−10 ± 4.155e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

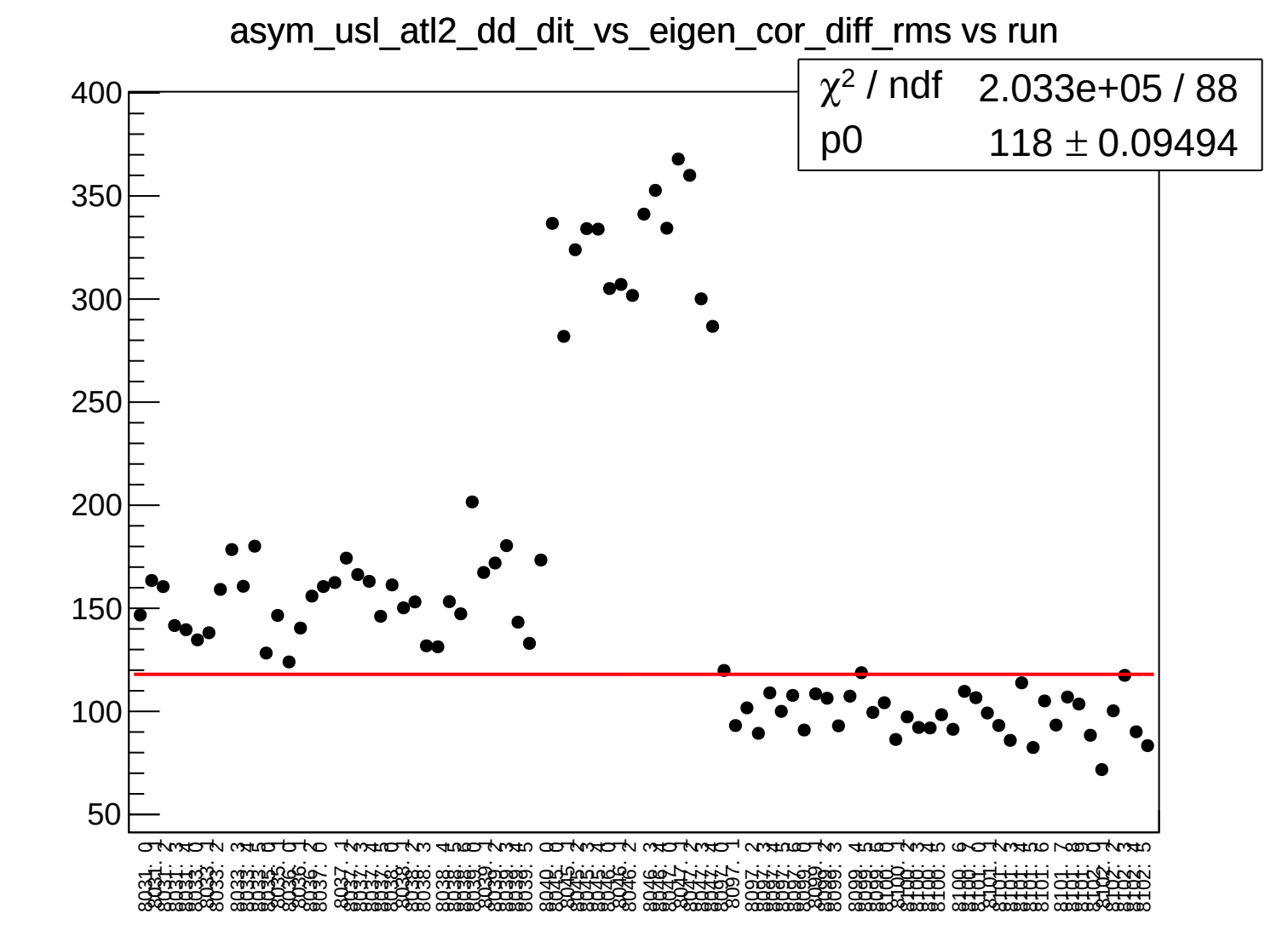

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.53 / 88
p0 0.1893 ± 0.1343
pull
Entries 89
Mean 162.2
Std Dev 0

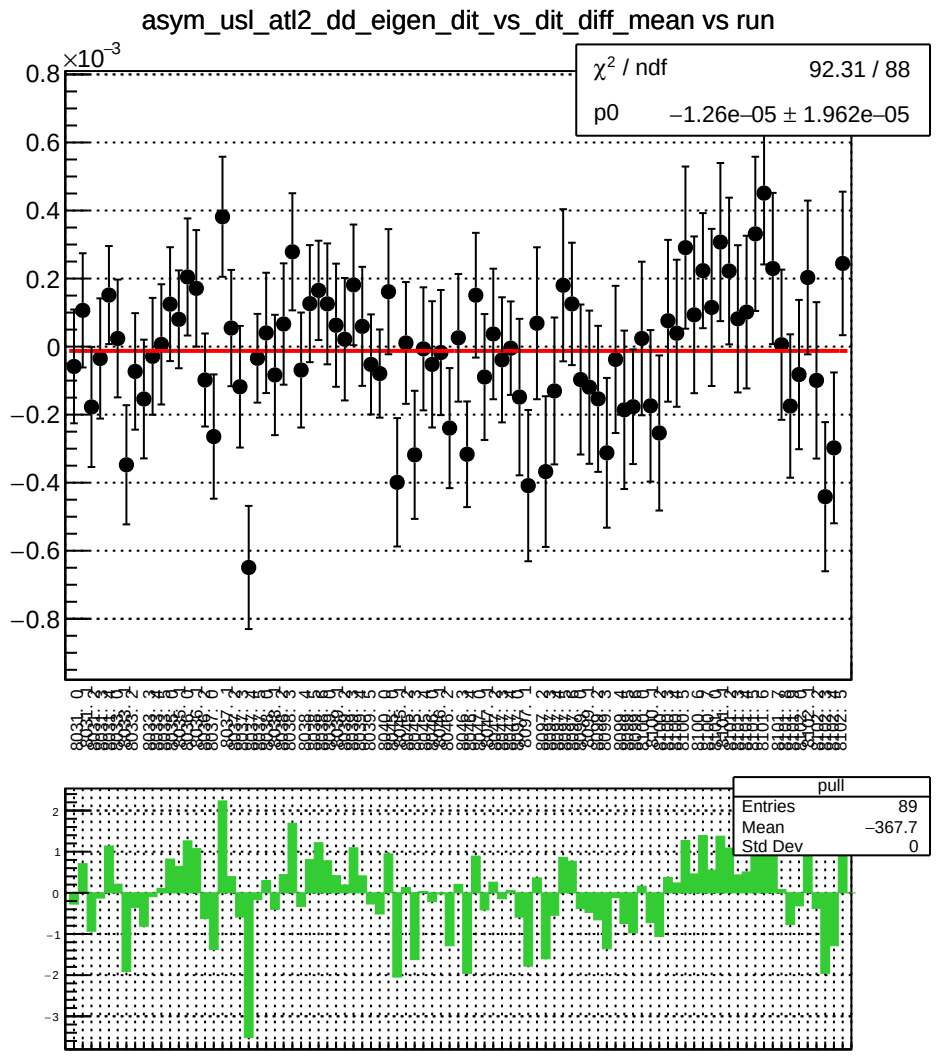

pull1D
Entries 89
Mean 0.0193
Std Dev 0.9858

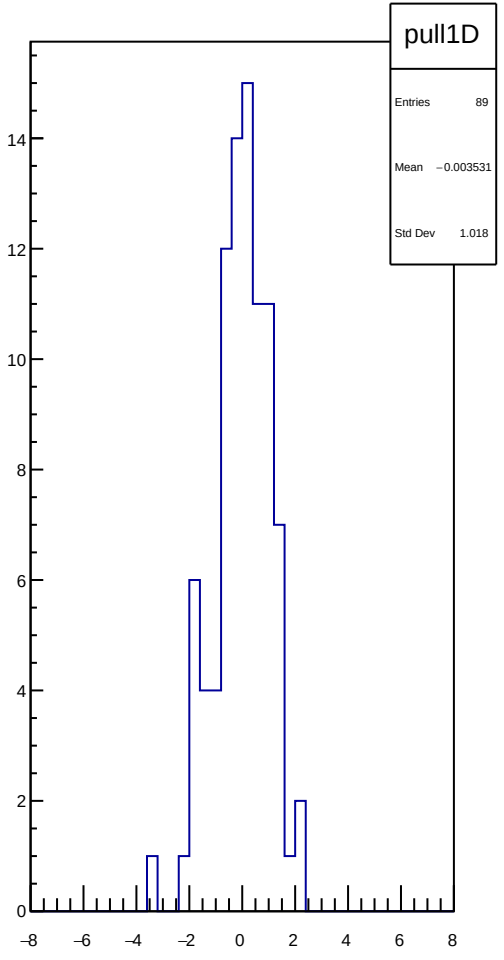

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.033e+05 / 88
p0 118 ± 0.09494
400
350
300
250
200
150
100
50

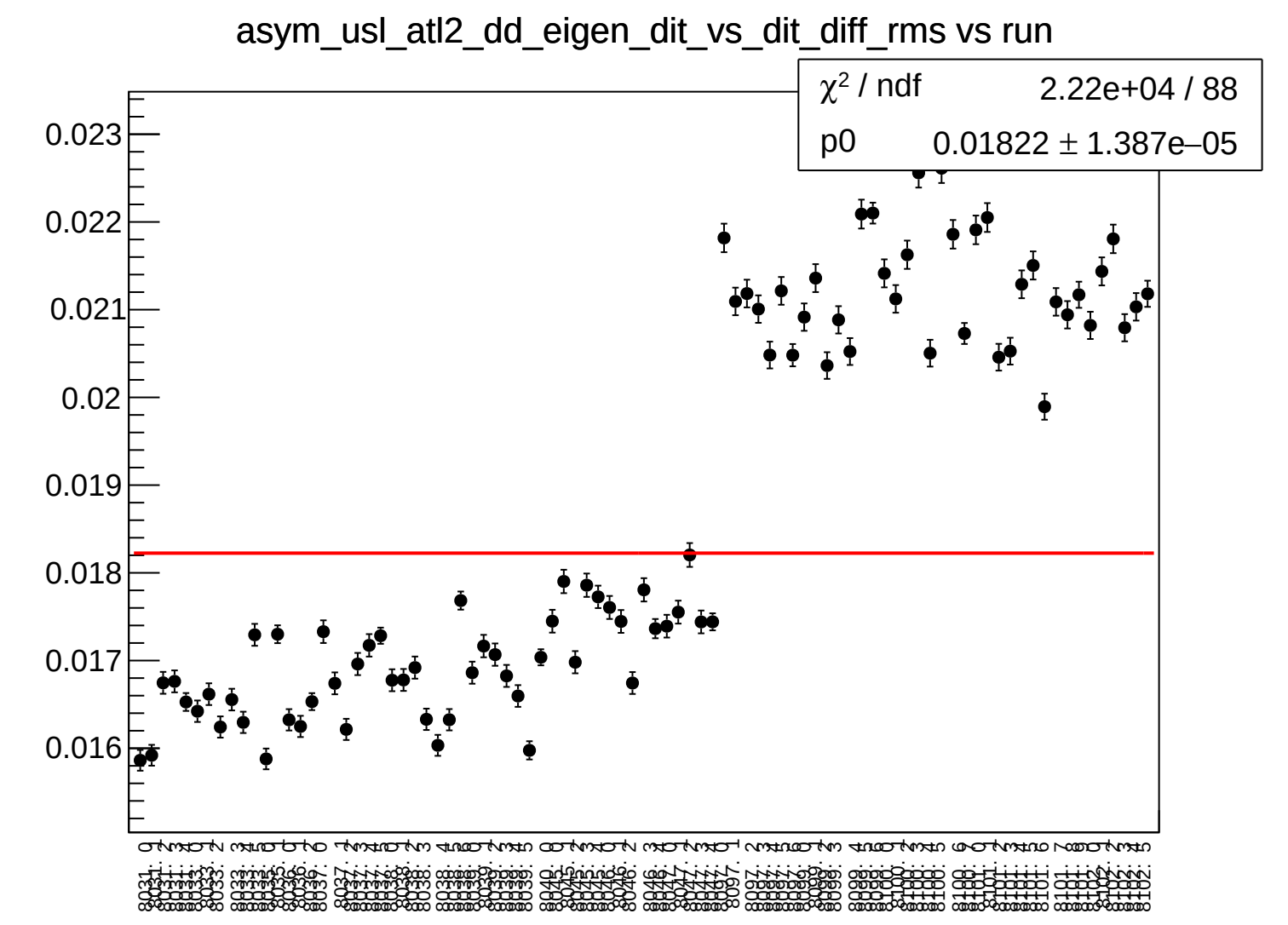

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.53 / 88
p0 0.1893 ± 0.1343
pull
Entries 89
Mean 162.2
Std Dev 0

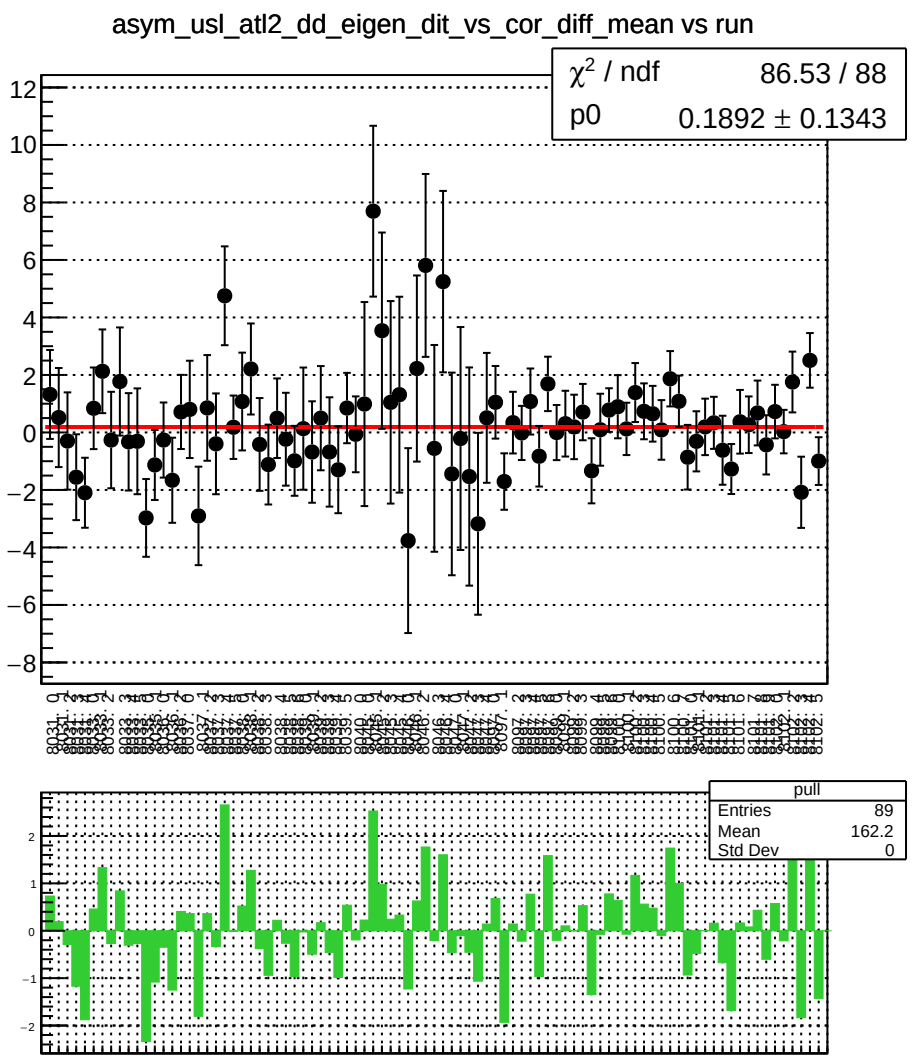

pull1D
Entries 89
Mean 0.0193
Std Dev 0.9858

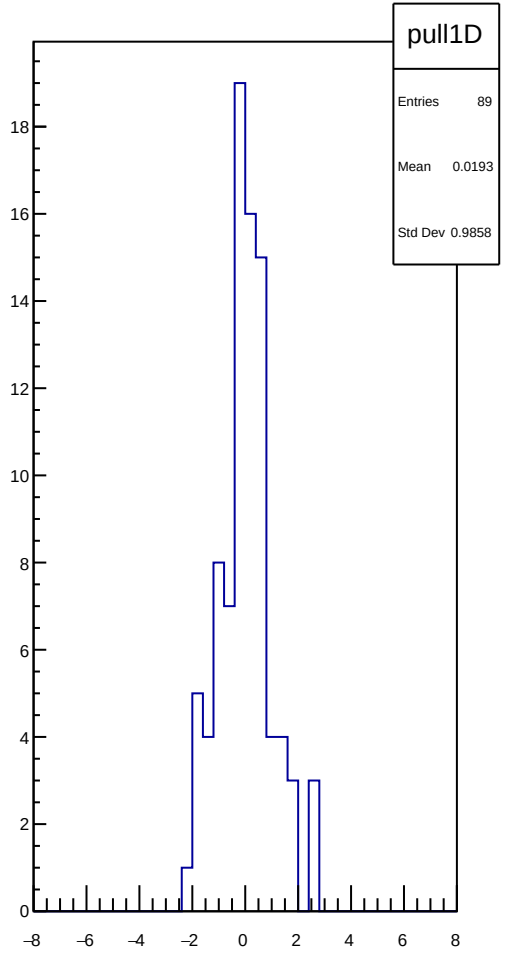

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.033e+05 / 88
p0 118 ± 0.09494
400
350
300
250
200
150
100
50

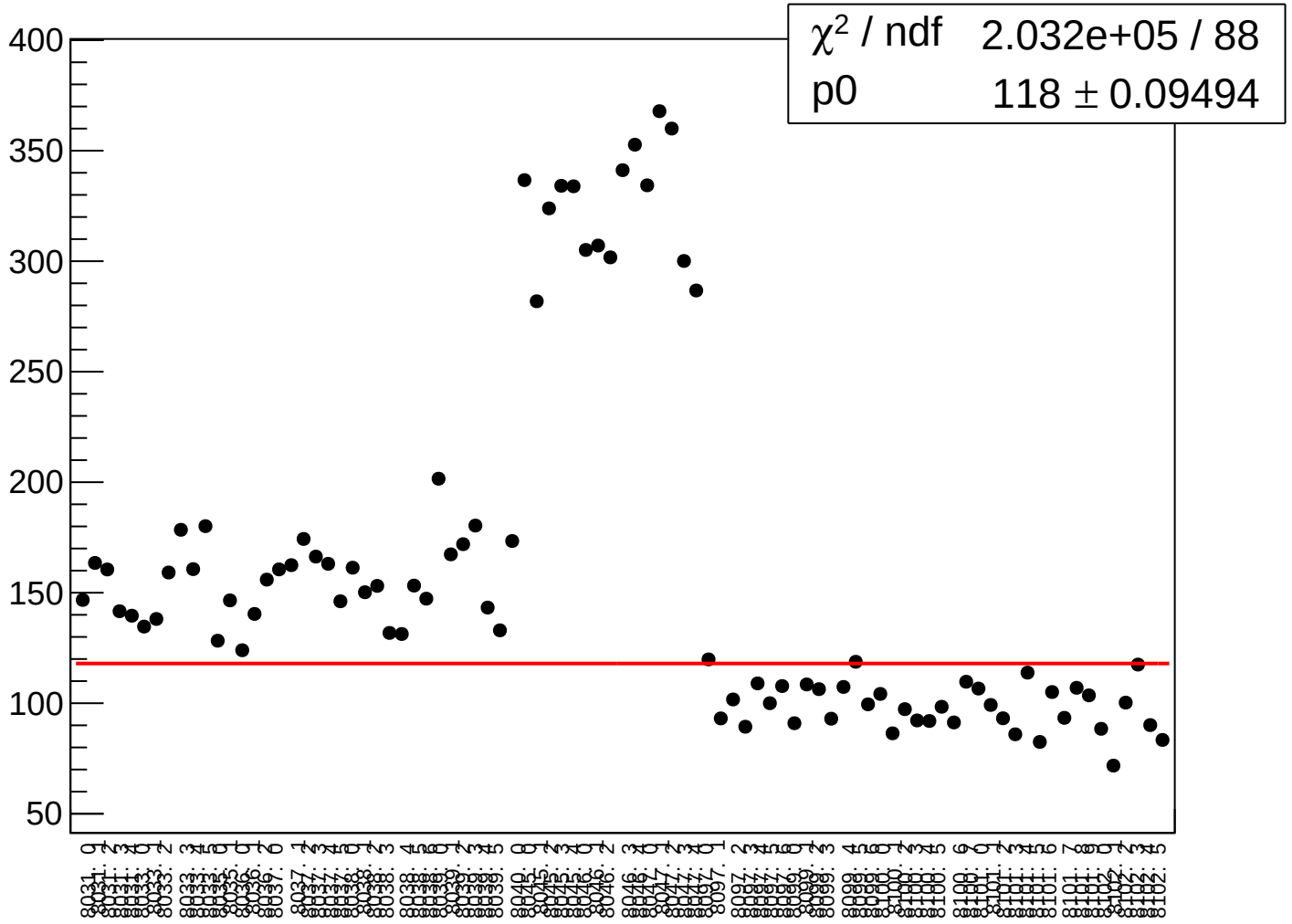

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.31 / 88
p0 −1.26e−05 ± 1.962e−05
pull
Entries 89
Mean −367.7
Std Dev 0

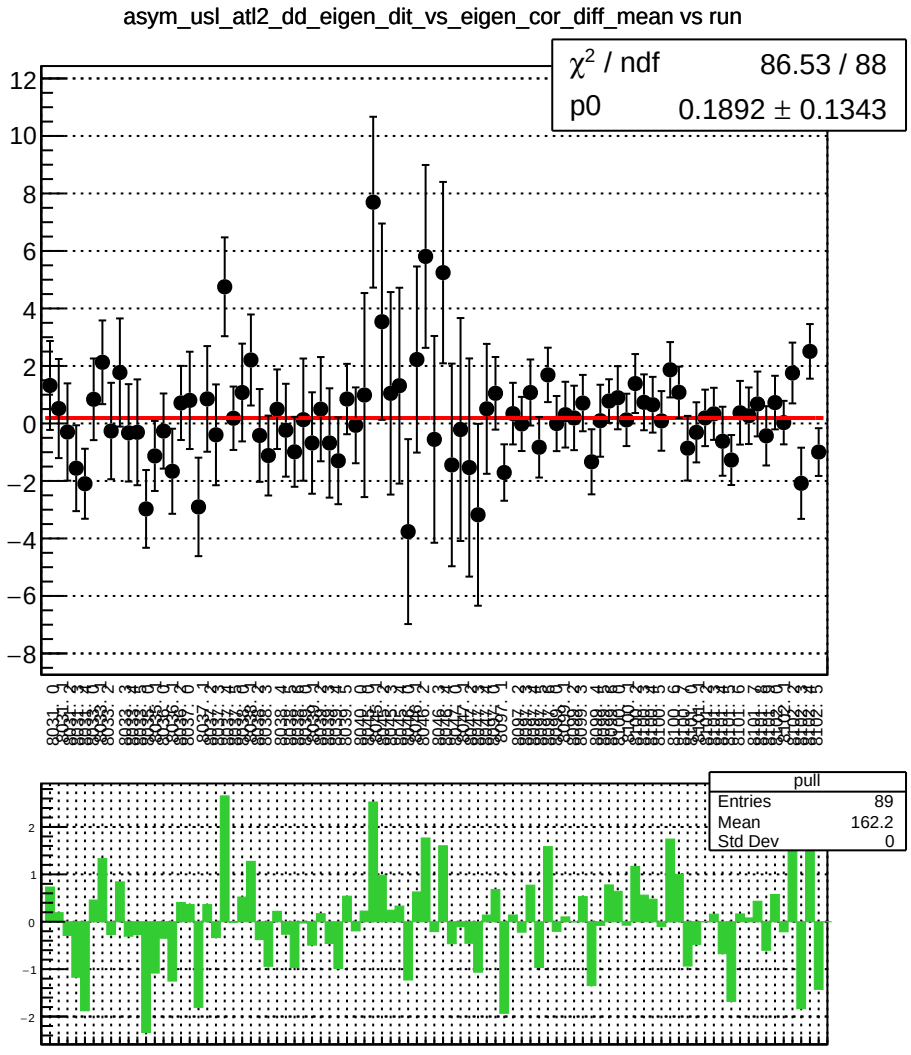

pull1D
Entries 89
Mean −0.003531
Std Dev 1.018

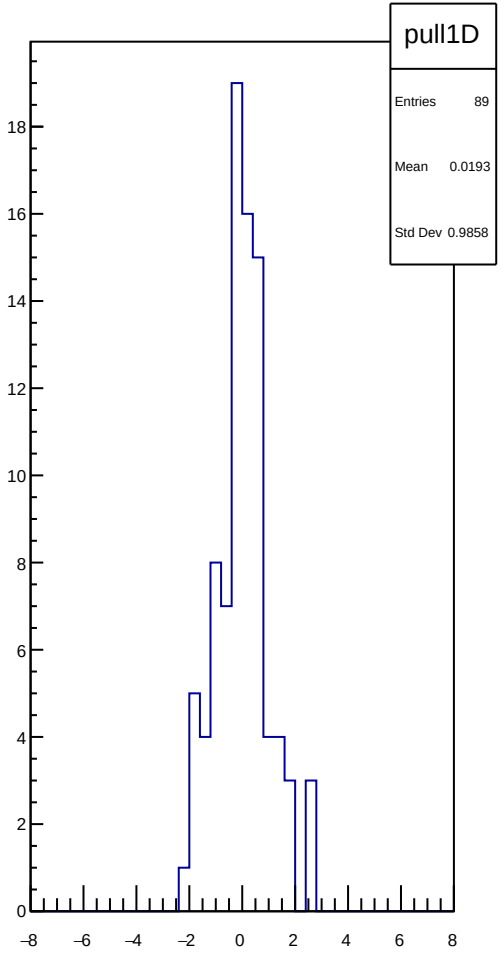

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.22e+04 / 88
p0 0.01822 ± 1.387e−05
0.023
0.022
0.021
0.02
0.019
0.018
0.017
0.016

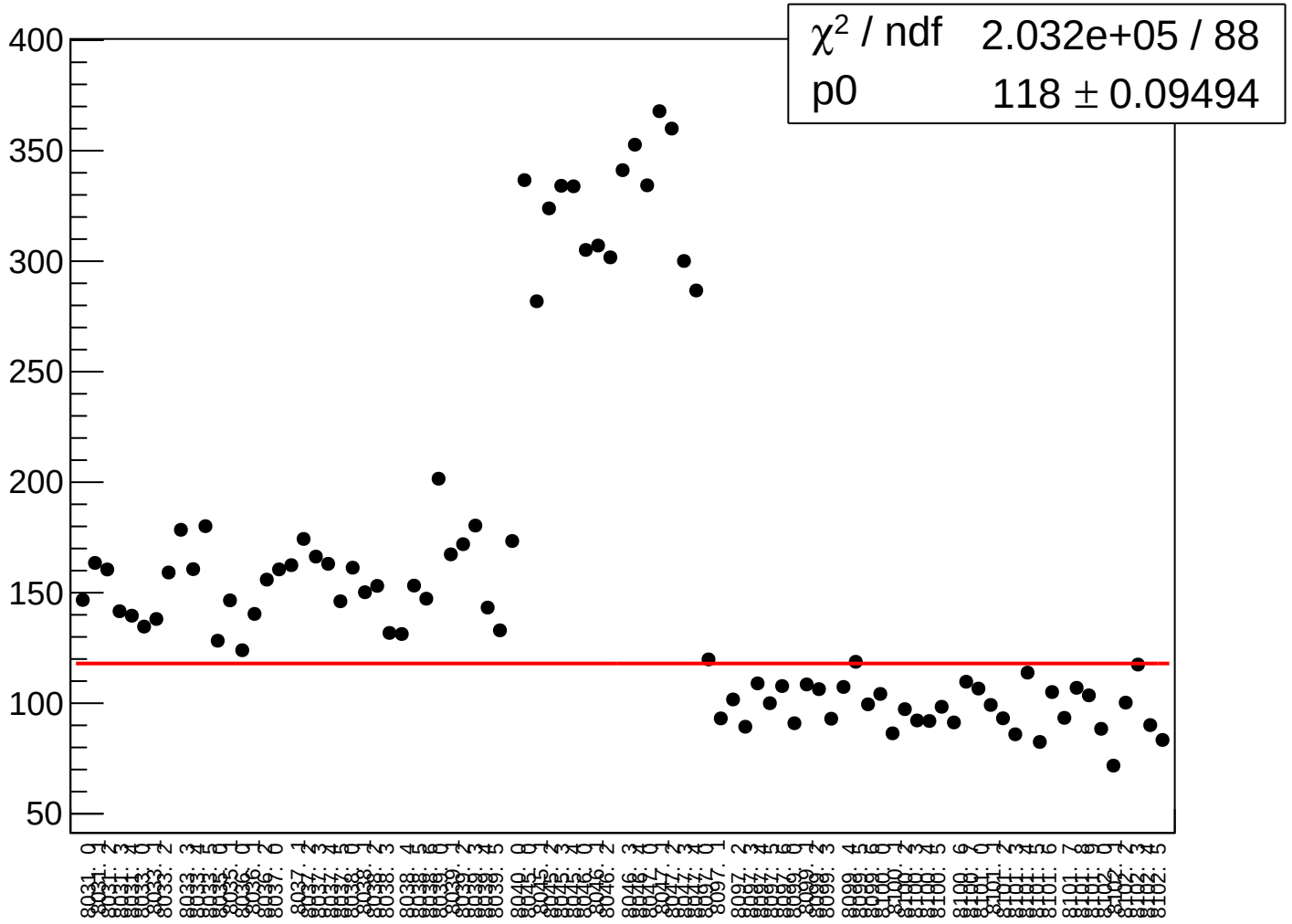

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.53 / 88
p0 0.1892 ± 0.1343
pull
Entries 89
Mean 162.2
Std Dev 0

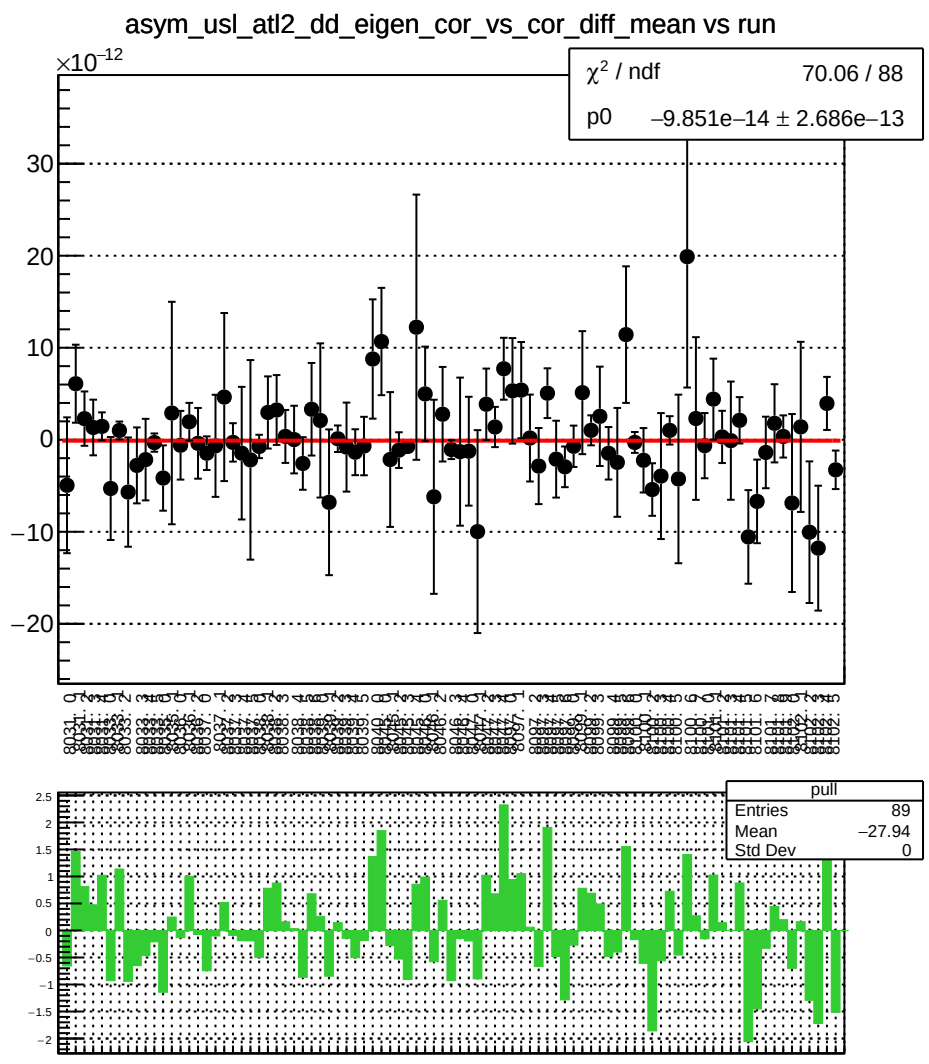

pull1D
Entries 89
Mean 0.0193
Std Dev 0.9858

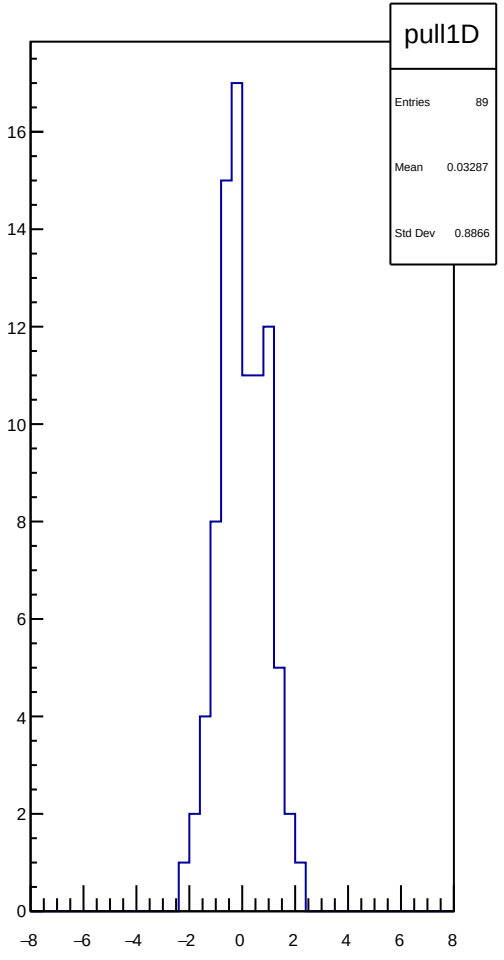

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.032e+05 / 88
p0 118 ± 0.09494
400
350
300
250
200
150
100
50

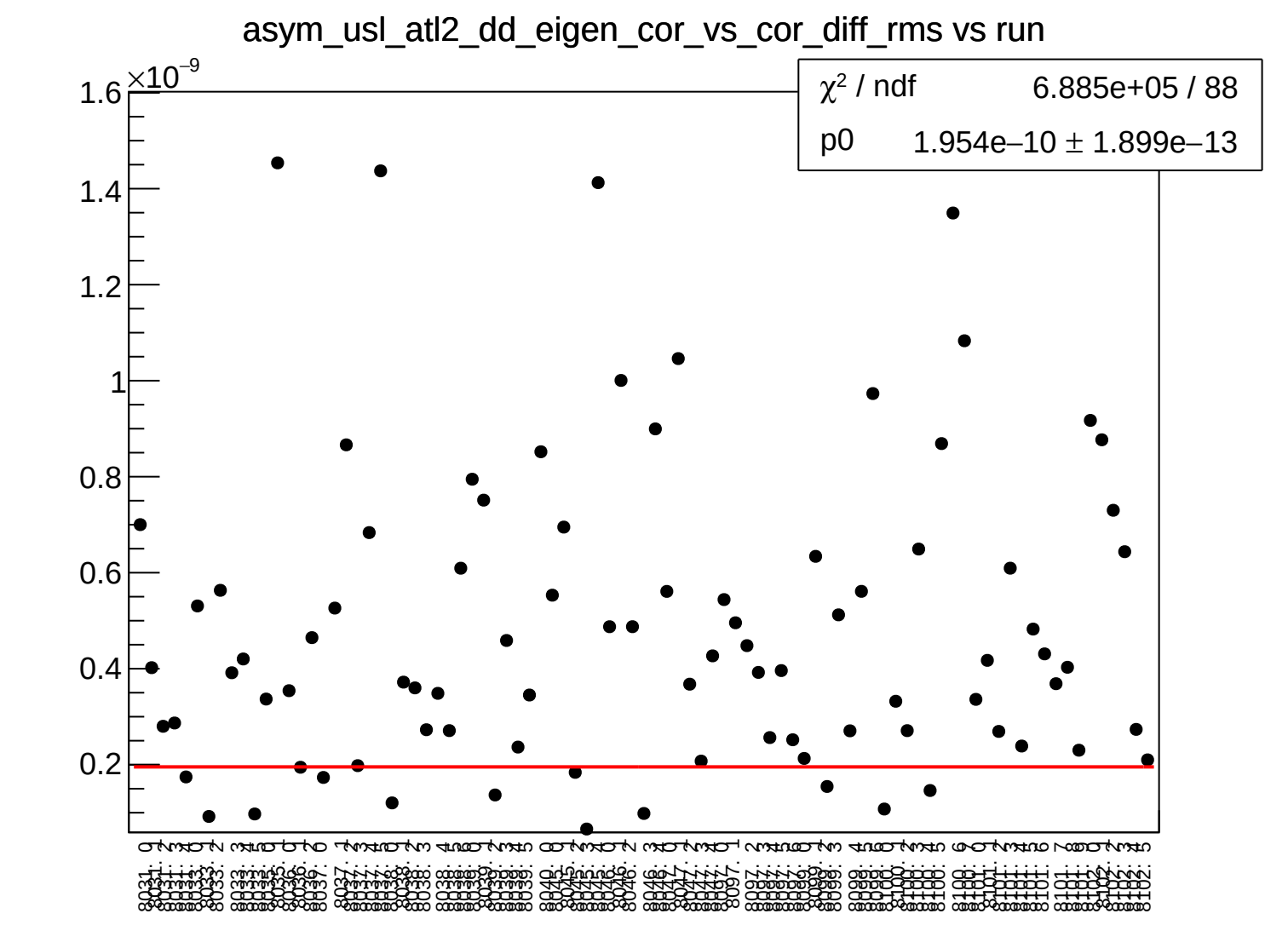

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.53 / 88
p0 0.1892 ± 0.1343
pull
Entries 89
Mean 162.2
Std Dev 0

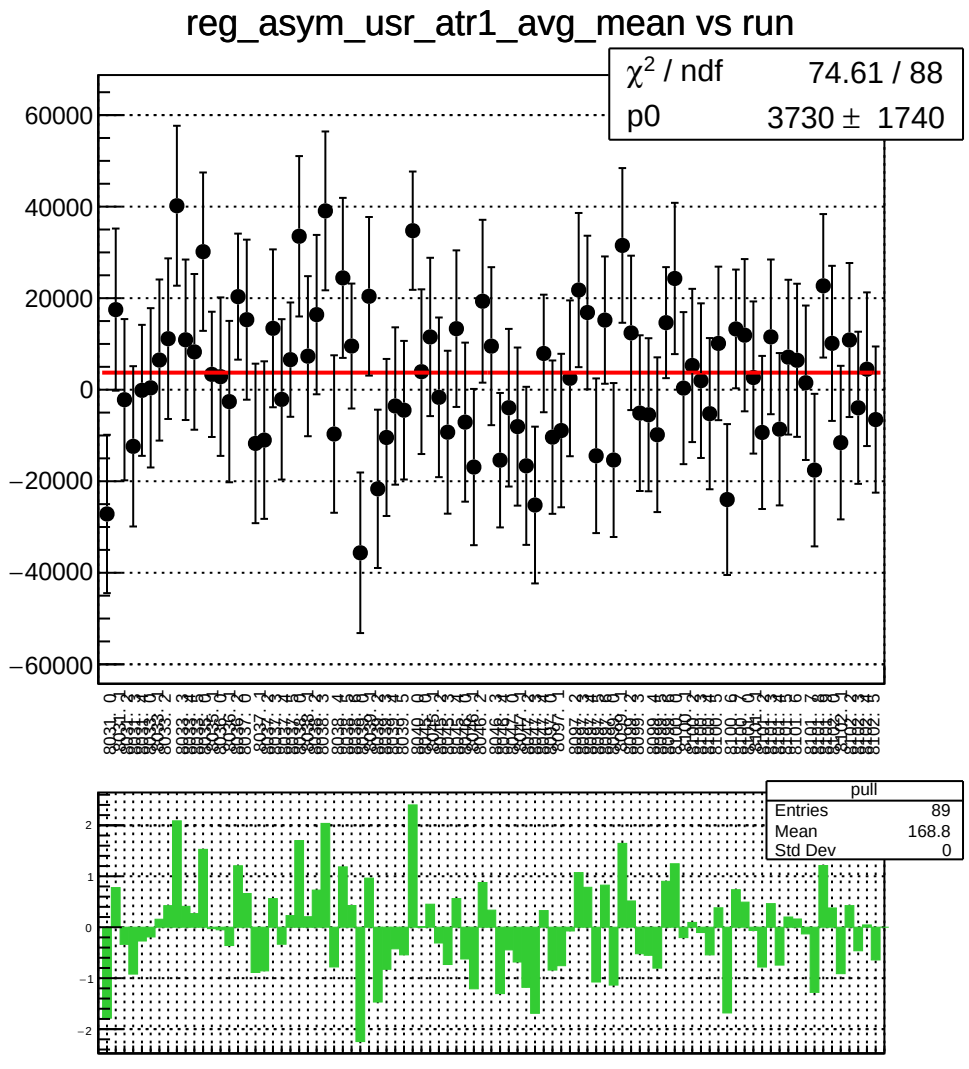

pull1D
Entries 89
Mean 0.0193
Std Dev 0.9858

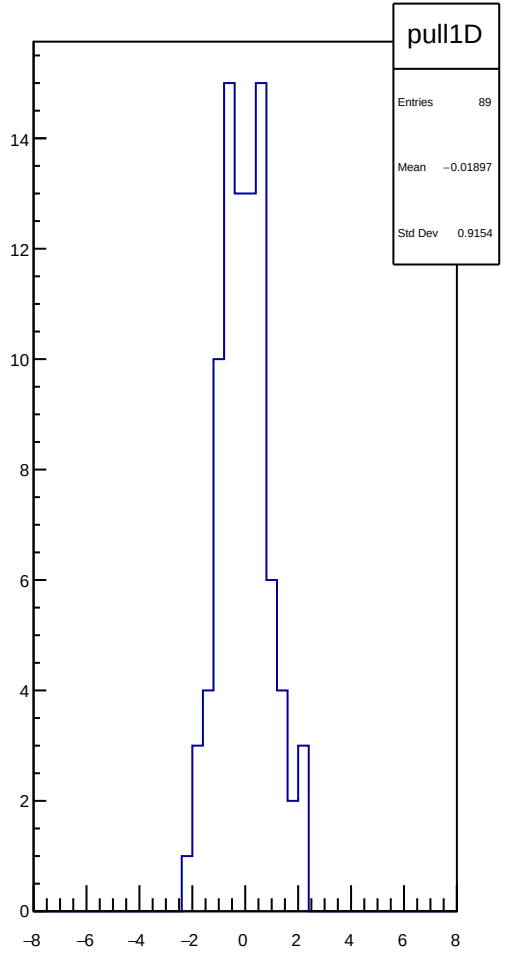

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.032e+05 / 88
p0 118 ± 0.09494
400
350
300
250
200
150
100
50

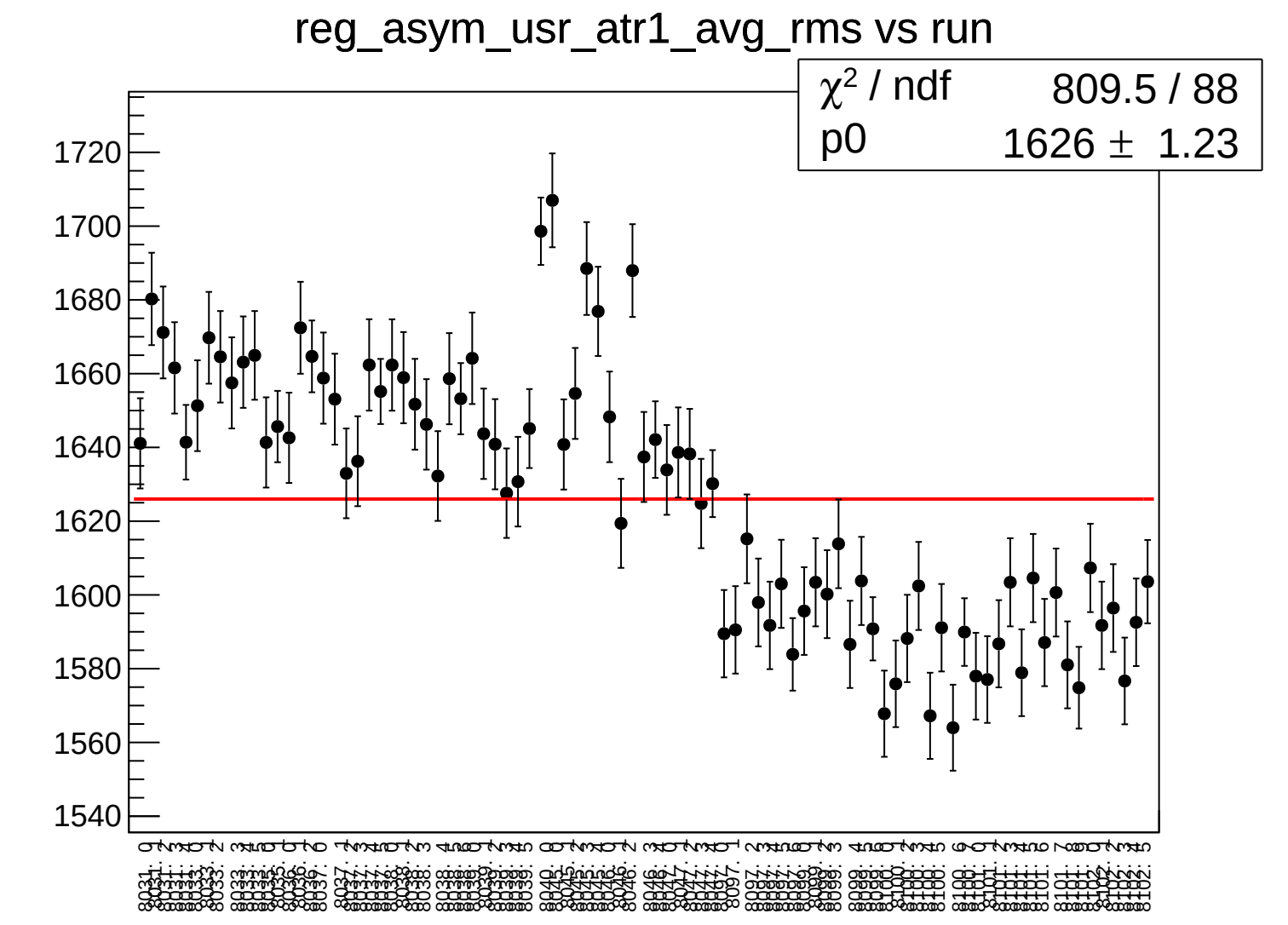

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 70.06 / 88
p0 −9.851e−14 ± 2.686e−13
30
20
10
0
−10
−20
pull
Entries 89
Mean −27.94
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

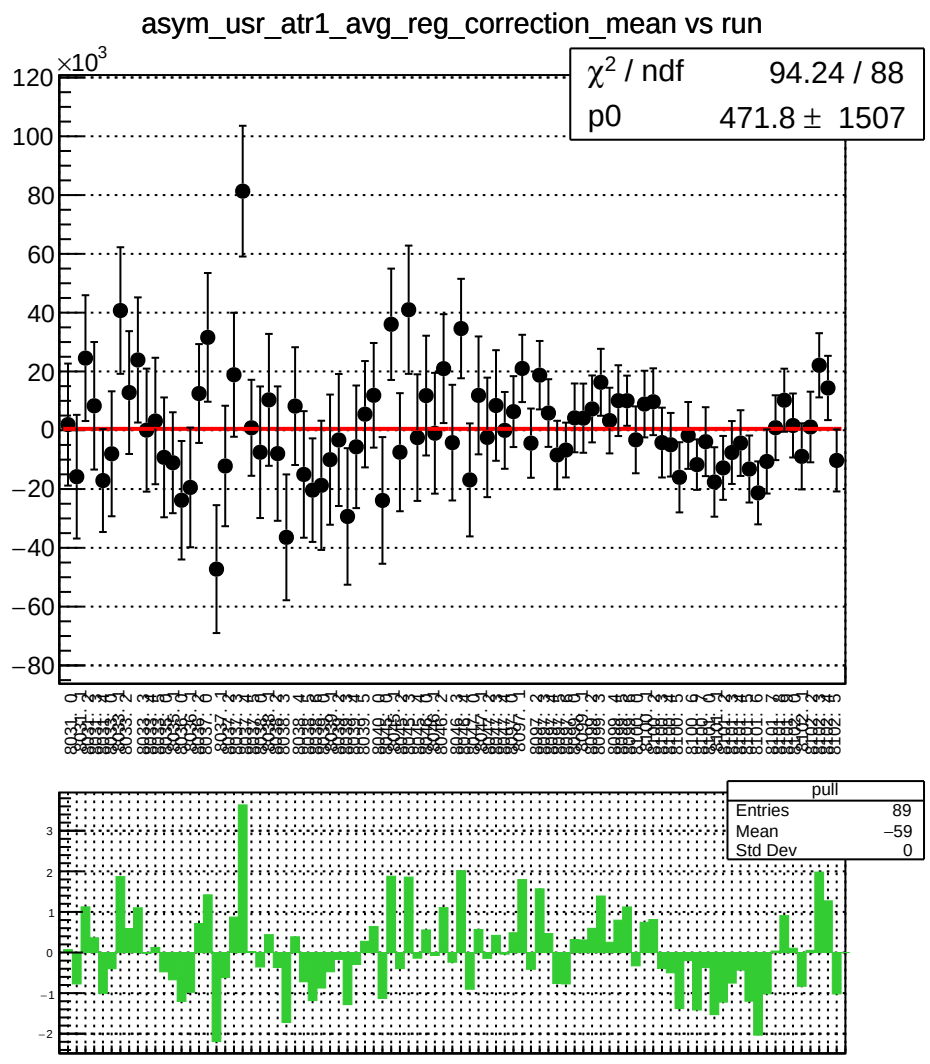

pull1D
Entries 89
Mean 0.03287
Std Dev 0.8866
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

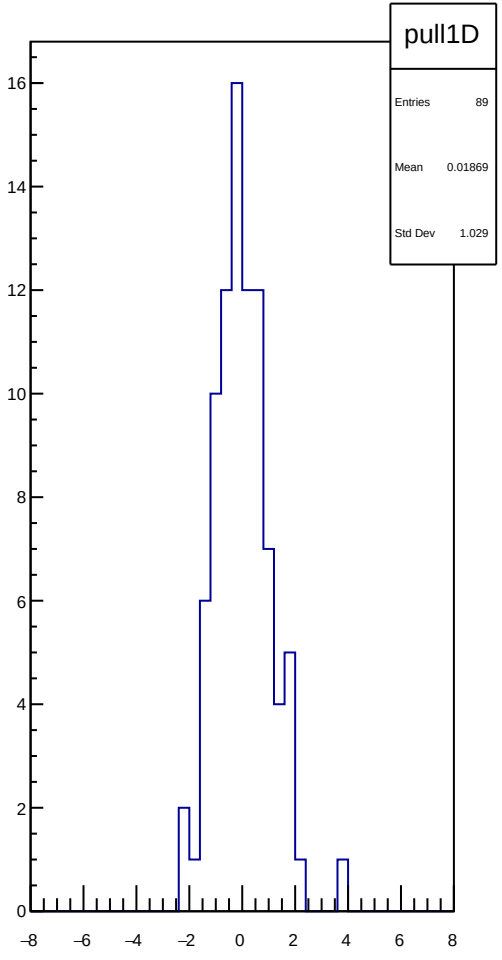

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.885e+05 / 88
p0 1.954e−10 ± 1.899e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

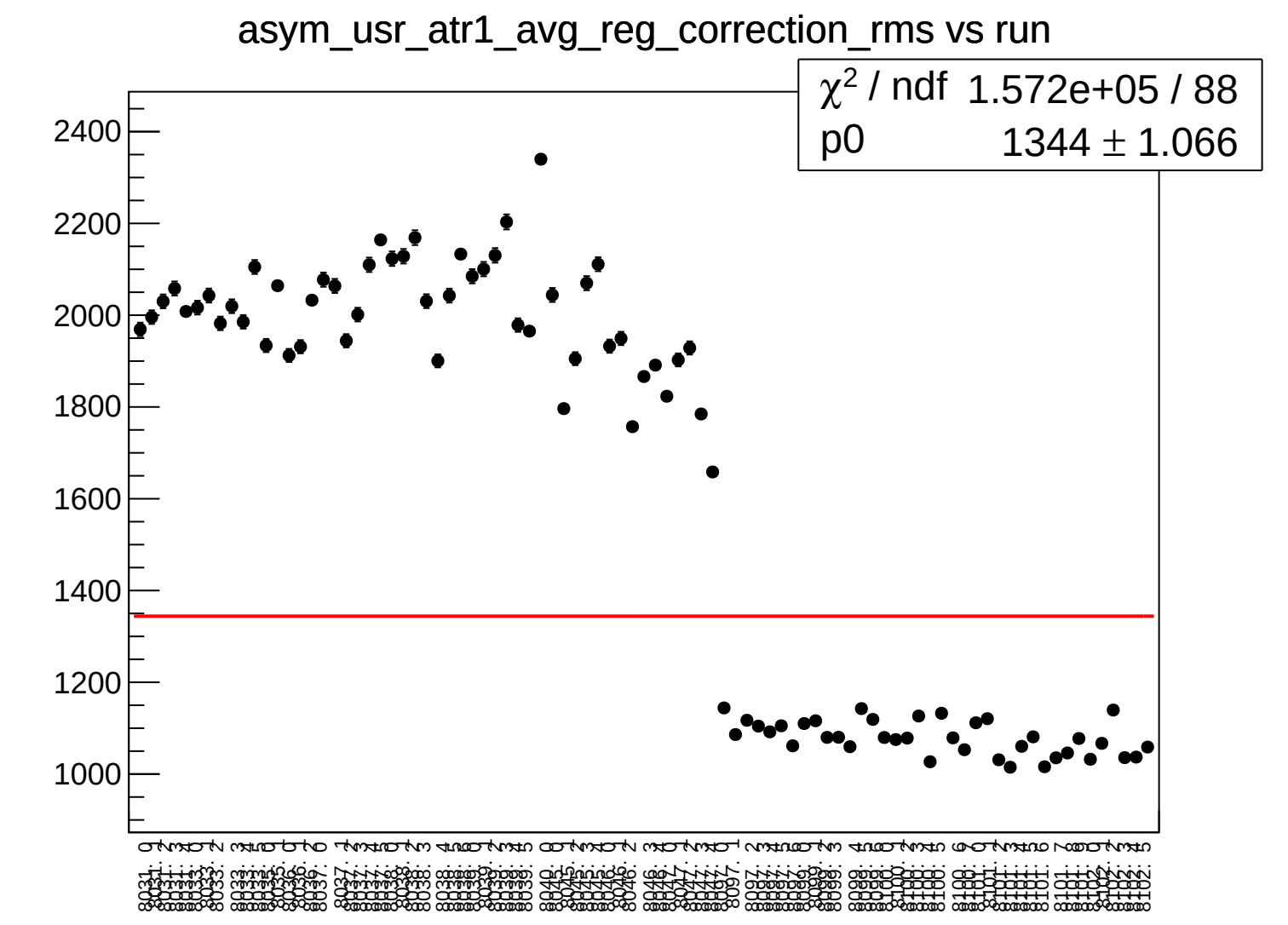

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 74.61 / 88
p0 3730 ± 1740
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 168.8
Std Dev 0
2
1
0
−1
−2

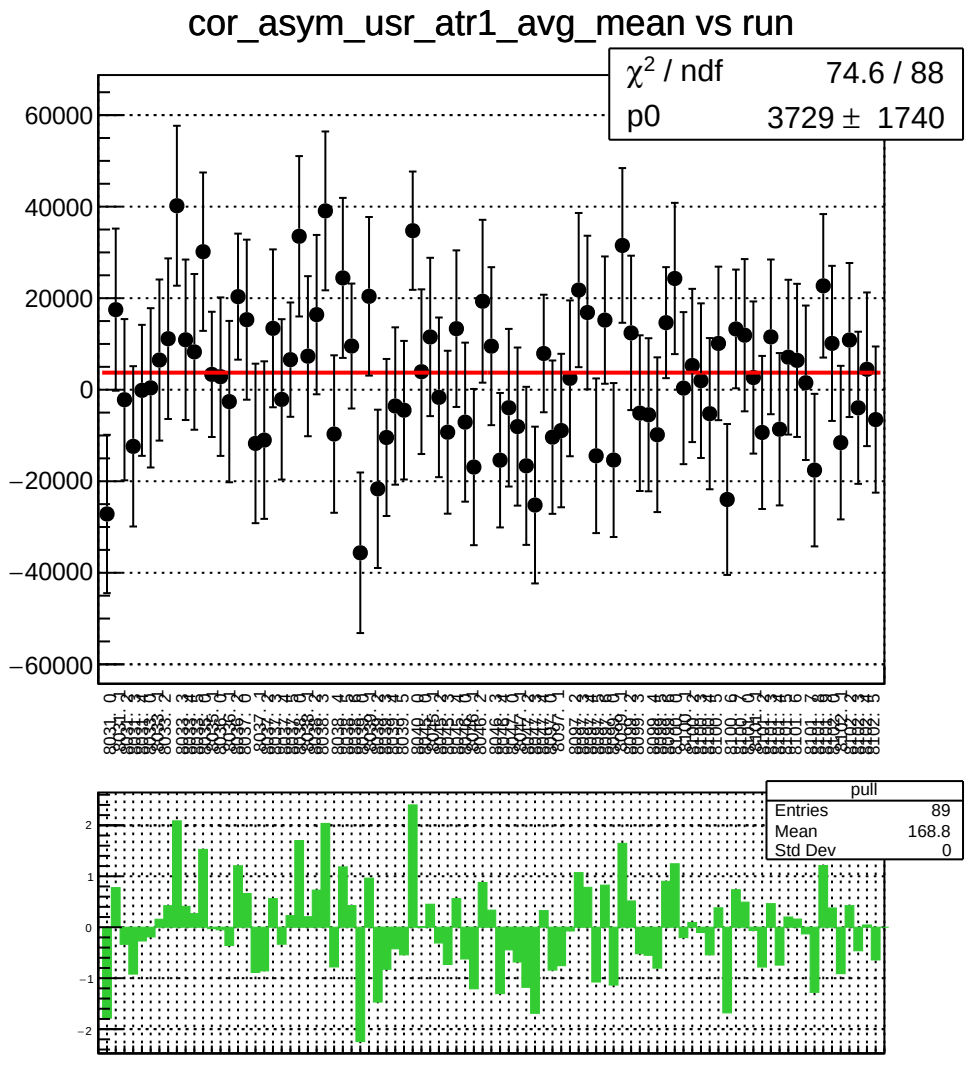

pull1D
Entries 89
Mean −0.01897
Std Dev 0.9154
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

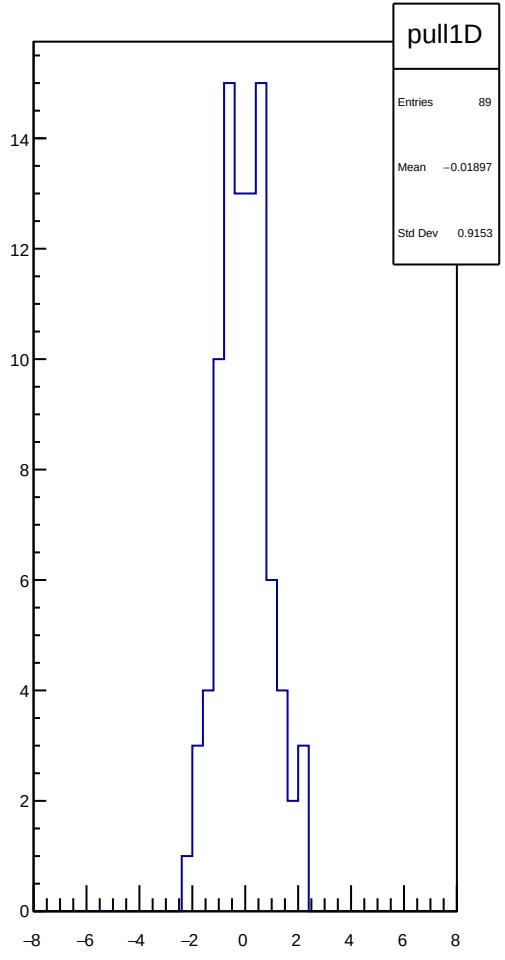

reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 809.5 / 88
p0 1626 ± 1.23
1720
1700
1680
1660
1640
1620
1600
1580
1560
1540

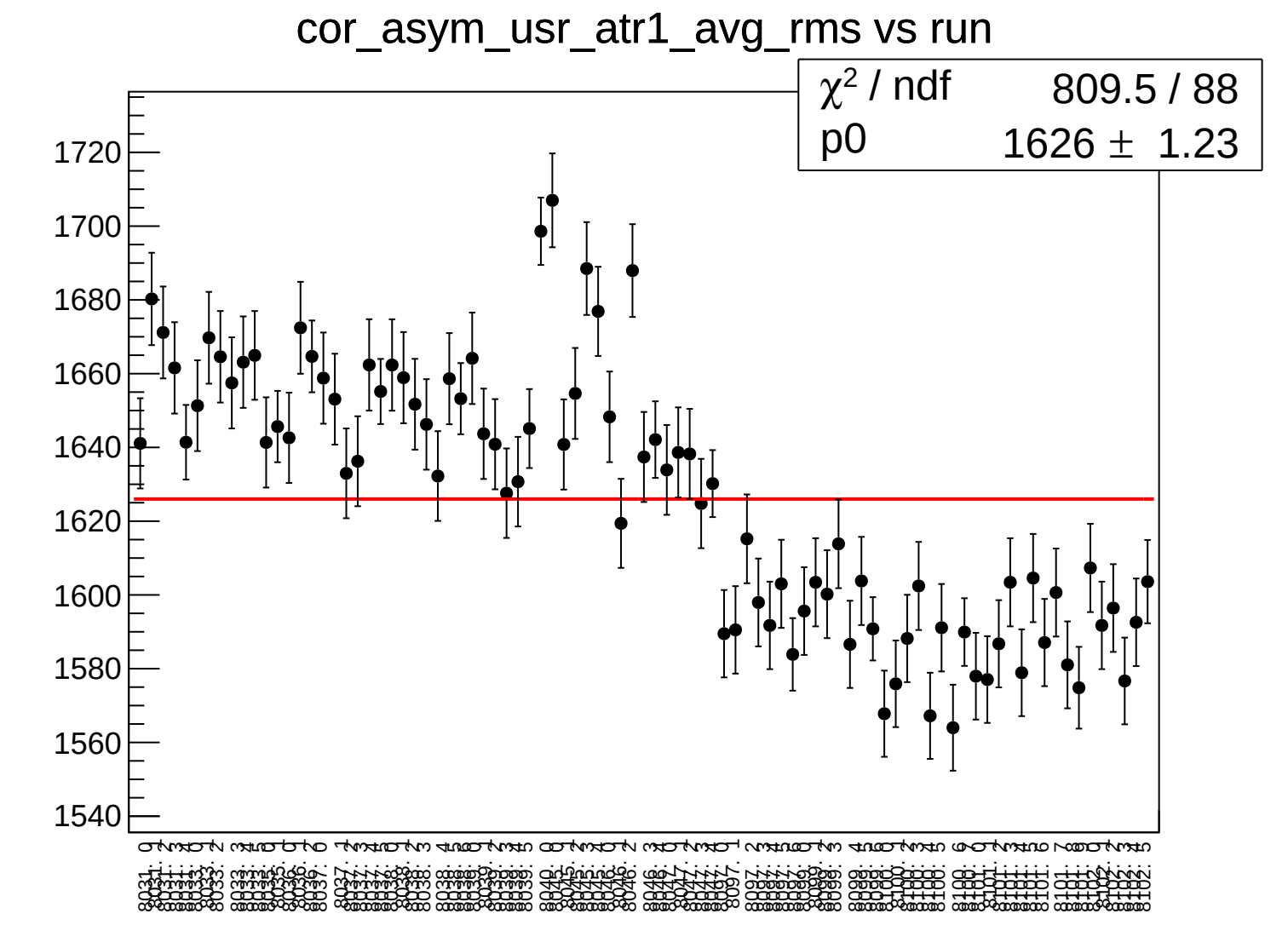

asym_usr_atr1_avg_reg_correction_mean vs run
$\chi^2$ / ndf 94.24 / 88
p0 471.8 ± 1507
×10^3
pull
Entries 89
Mean −59
Std Dev 0

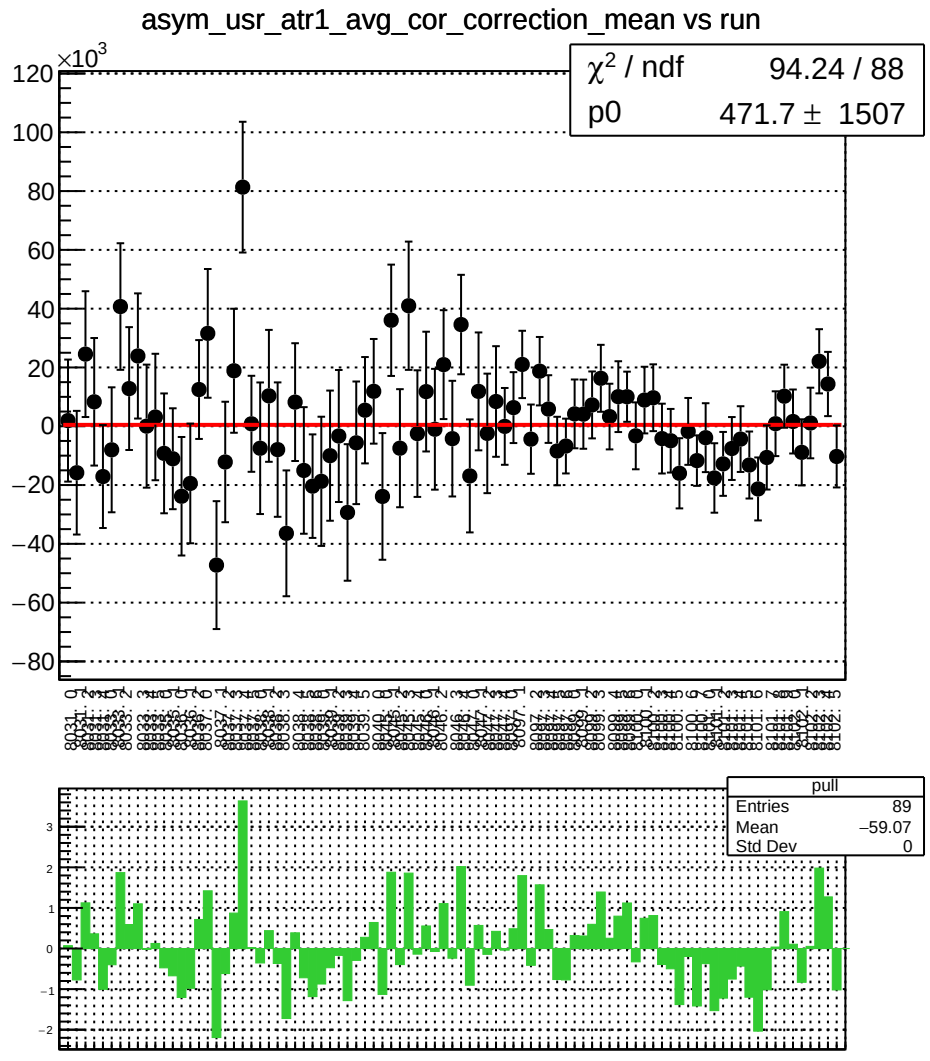

pull1D
Entries 89
Mean 0.01869
Std Dev 1.029

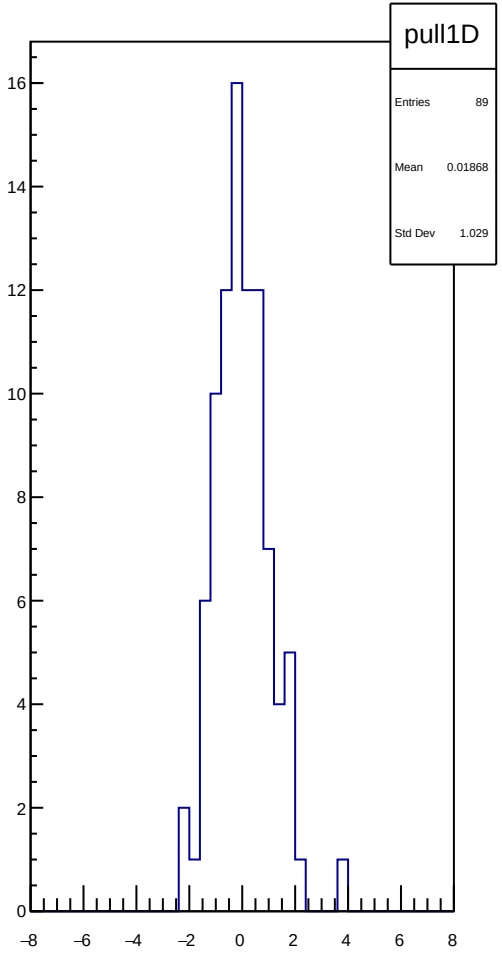

asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 1.572e+05 / 88
p0 1344 ± 1.066
2400
2200
2000
1800
1600
1400
1200
1000

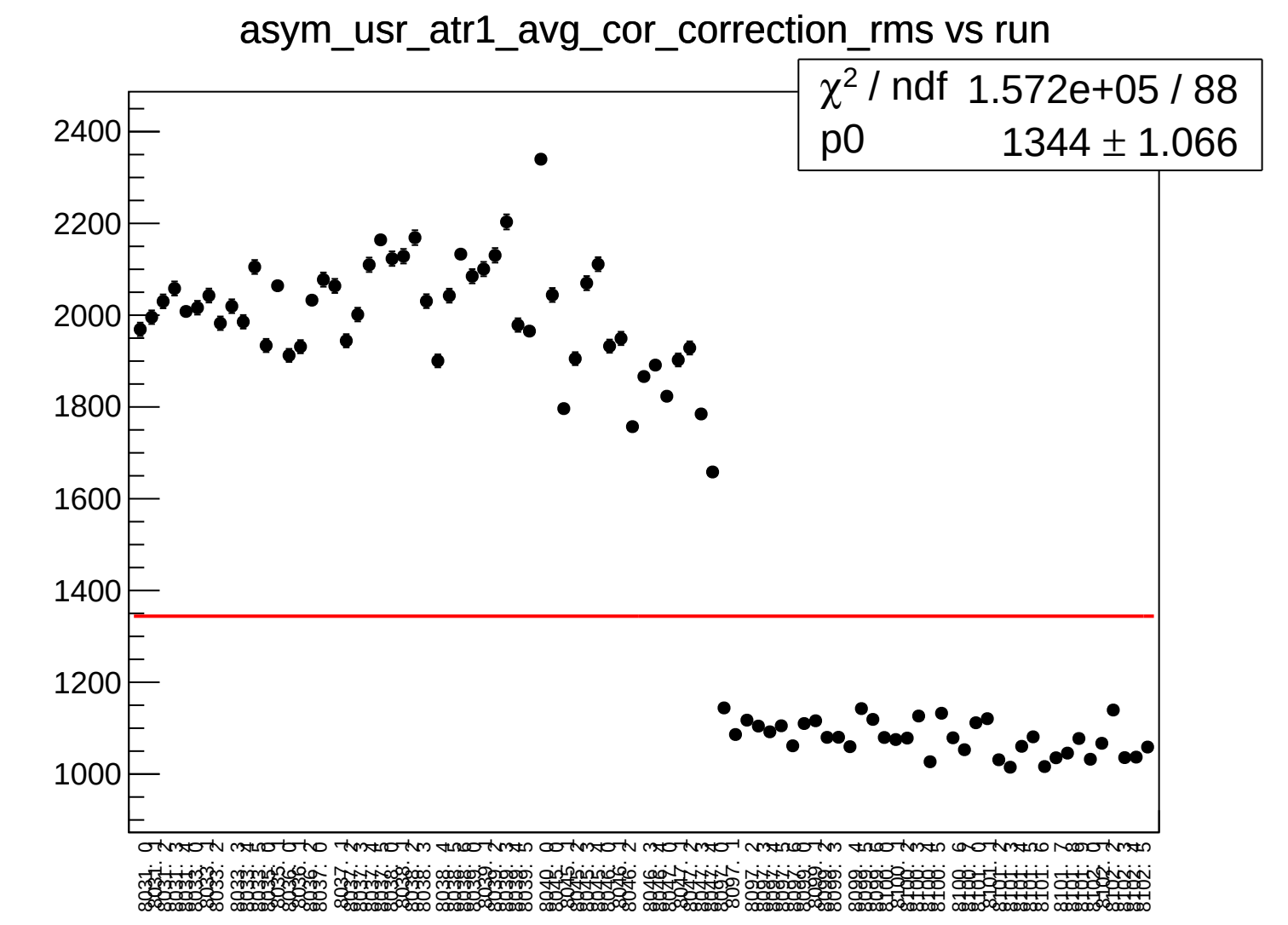

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 74.6 / 88
p0 3729 ± 1740
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 168.8
Std Dev 0
2
1
0
−1
−2

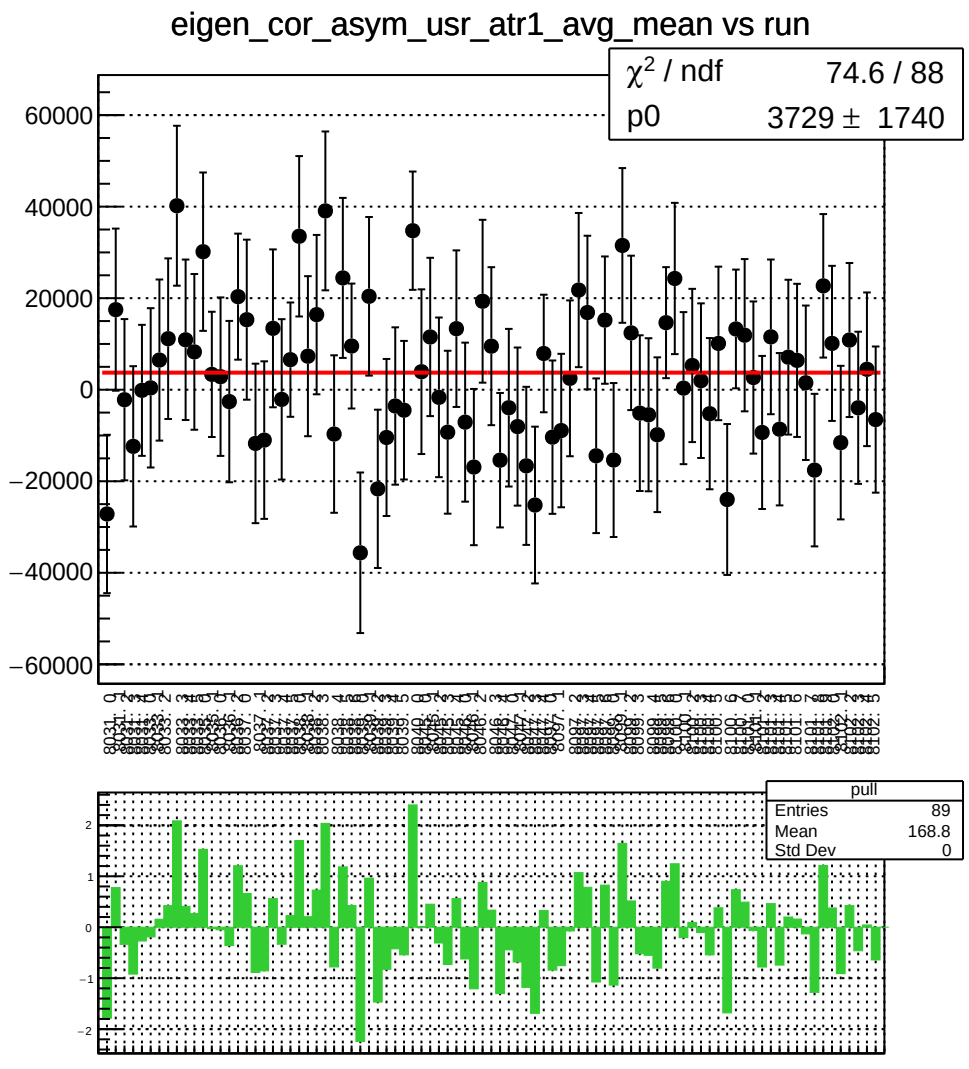

pull1D
Entries 89
Mean −0.01897
Std Dev 0.9153
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

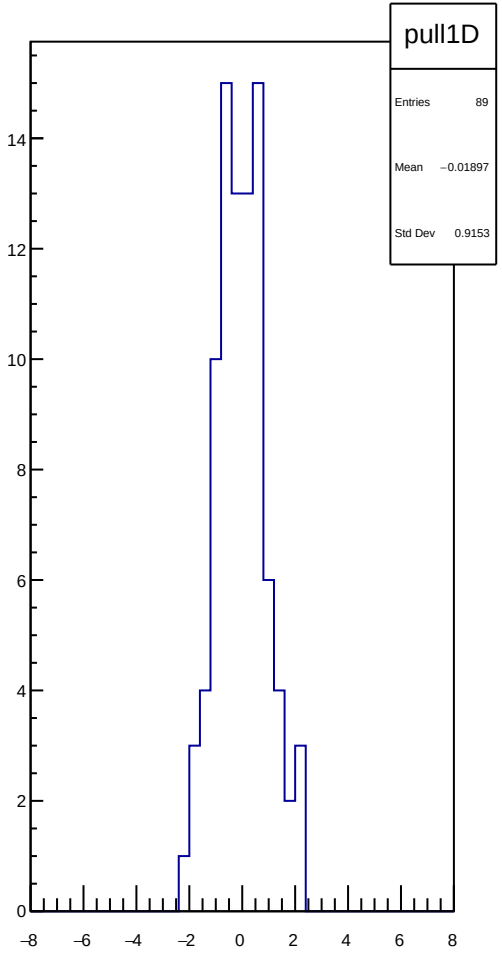

cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 809.5 / 88
p0 1626 ± 1.23
1720
1700
1680
1660
1640
1620
1600
1580
1560
1540

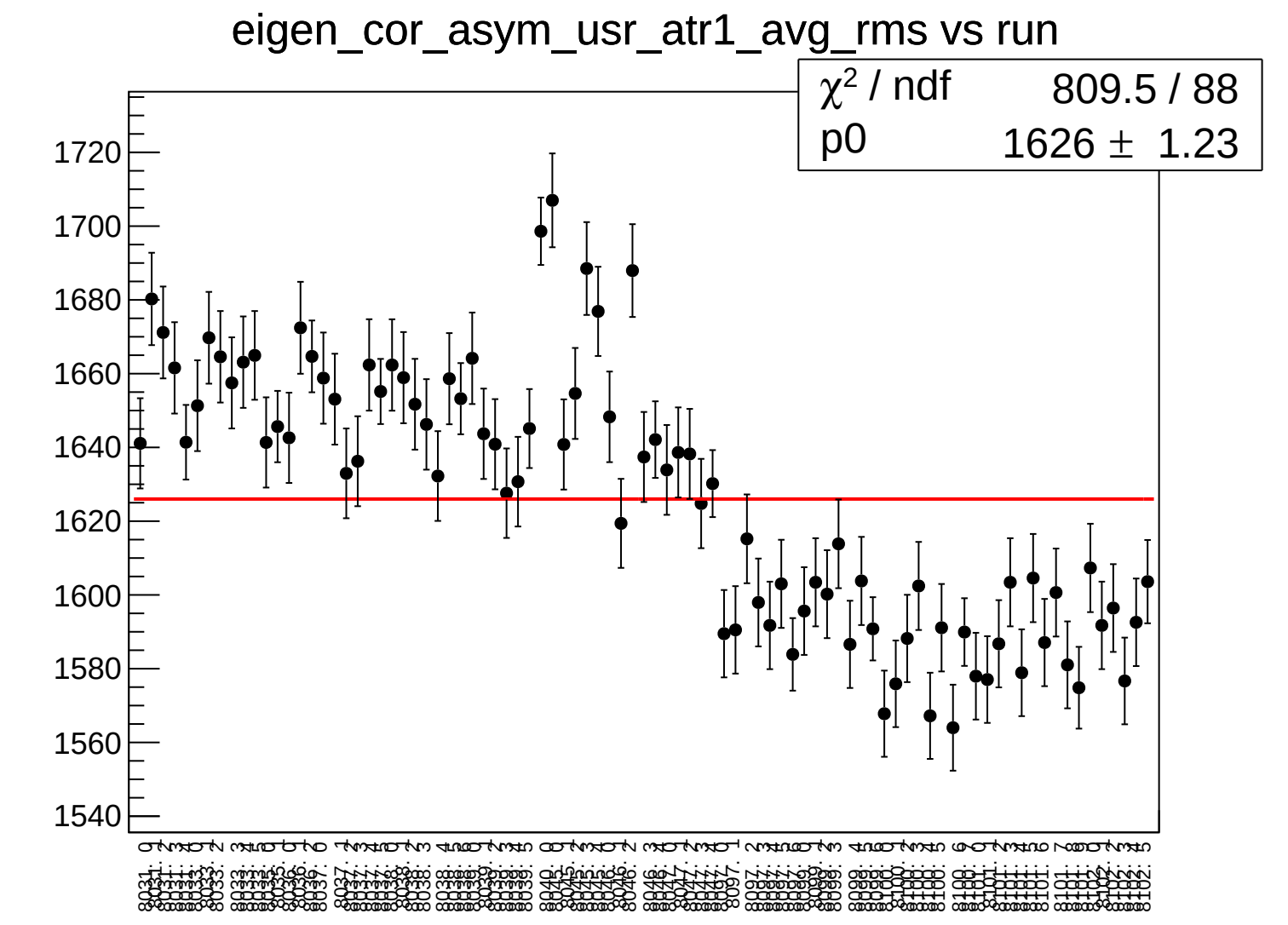

asym_usr_atr1_avg_cor_correction_mean vs run
×10^3
χ² / ndf 94.24 / 88
p0 471.7 ± 1507
pull
Entries 89
Mean −59.07
Std Dev 0

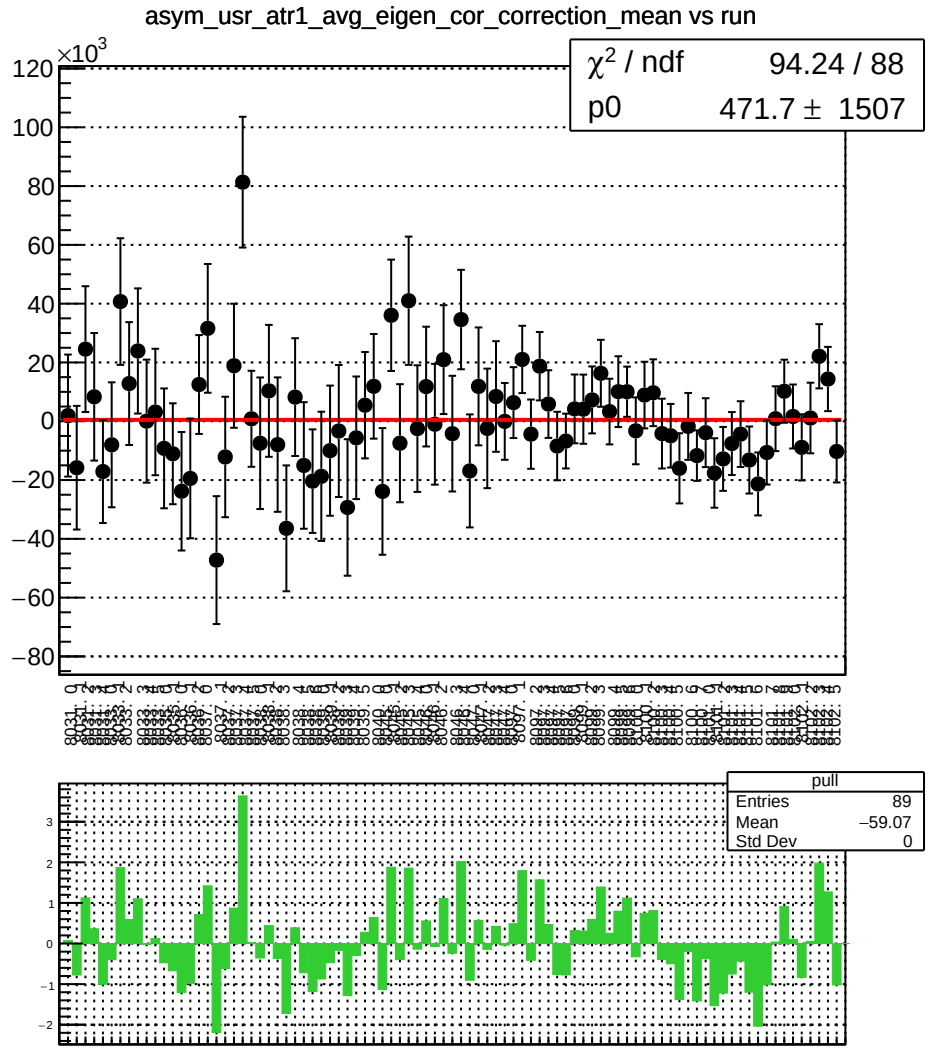

pull1D
Entries 89
Mean 0.01868
Std Dev 1.029

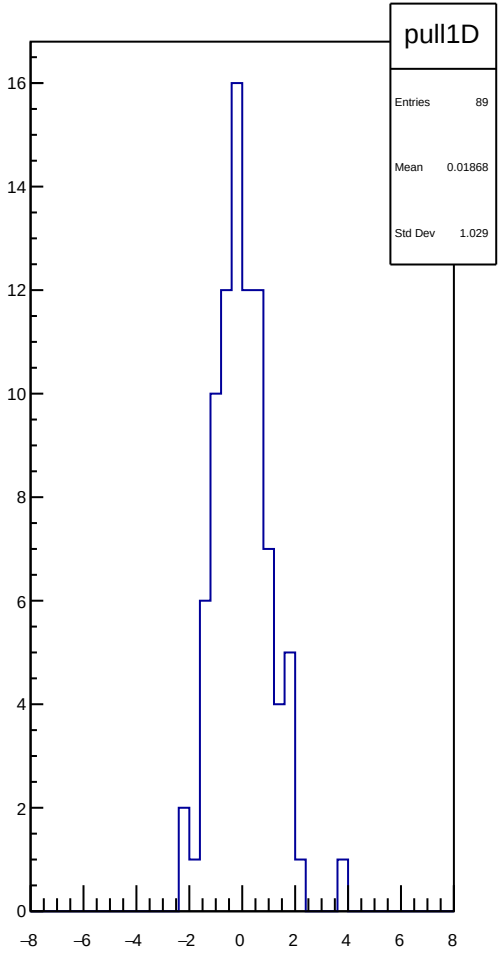

asym_usr_atr1_avg_cor_correction_rms vs run
χ² / ndf 1.572e+05 / 88
p0 1344 ± 1.066
2400
2200
2000
1800
1600
1400
1200
1000

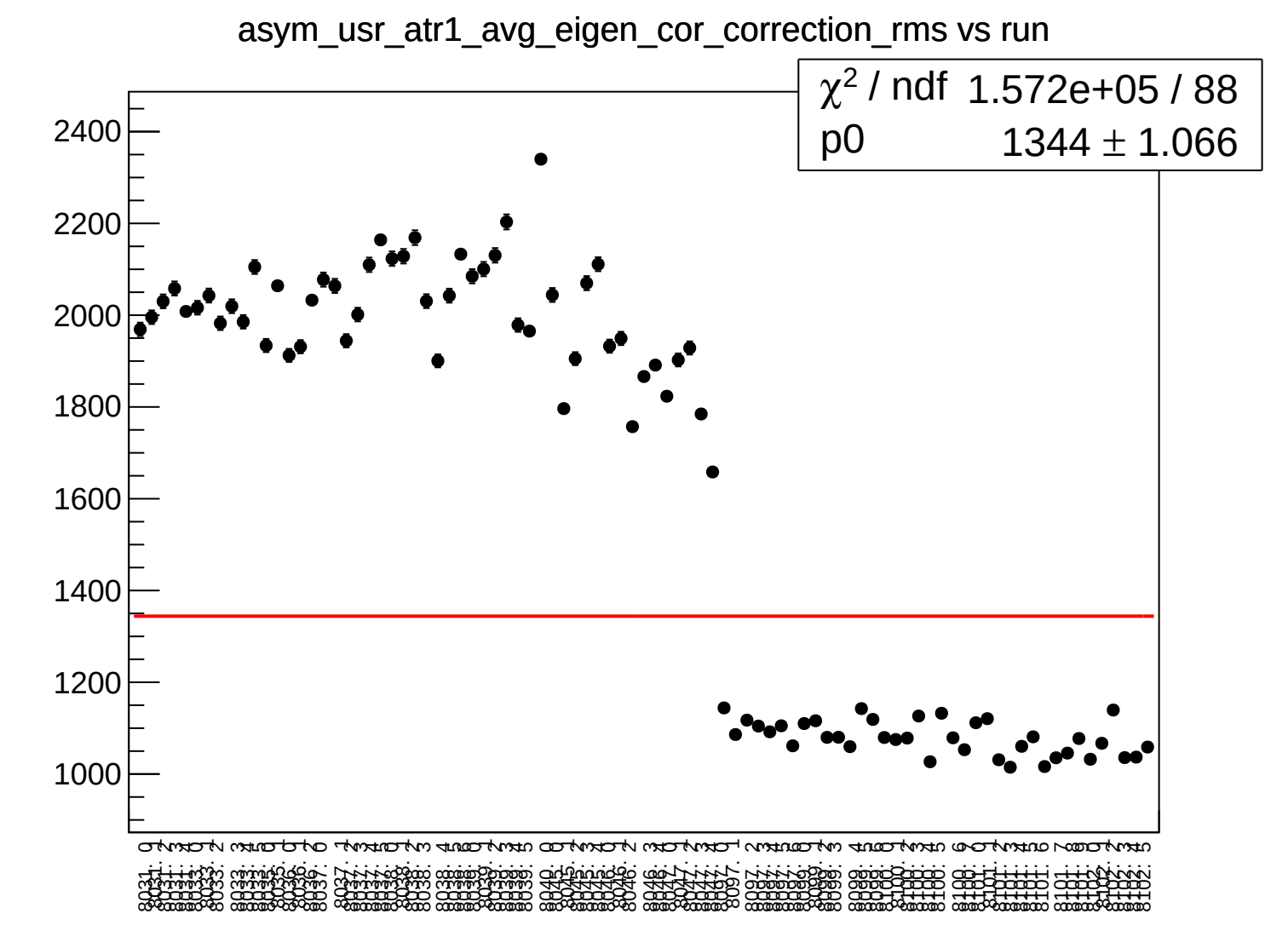

eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 74.6 / 88
p0 3729 ± 1740
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 168.8
Std Dev 0
2
1
0
−1
−2

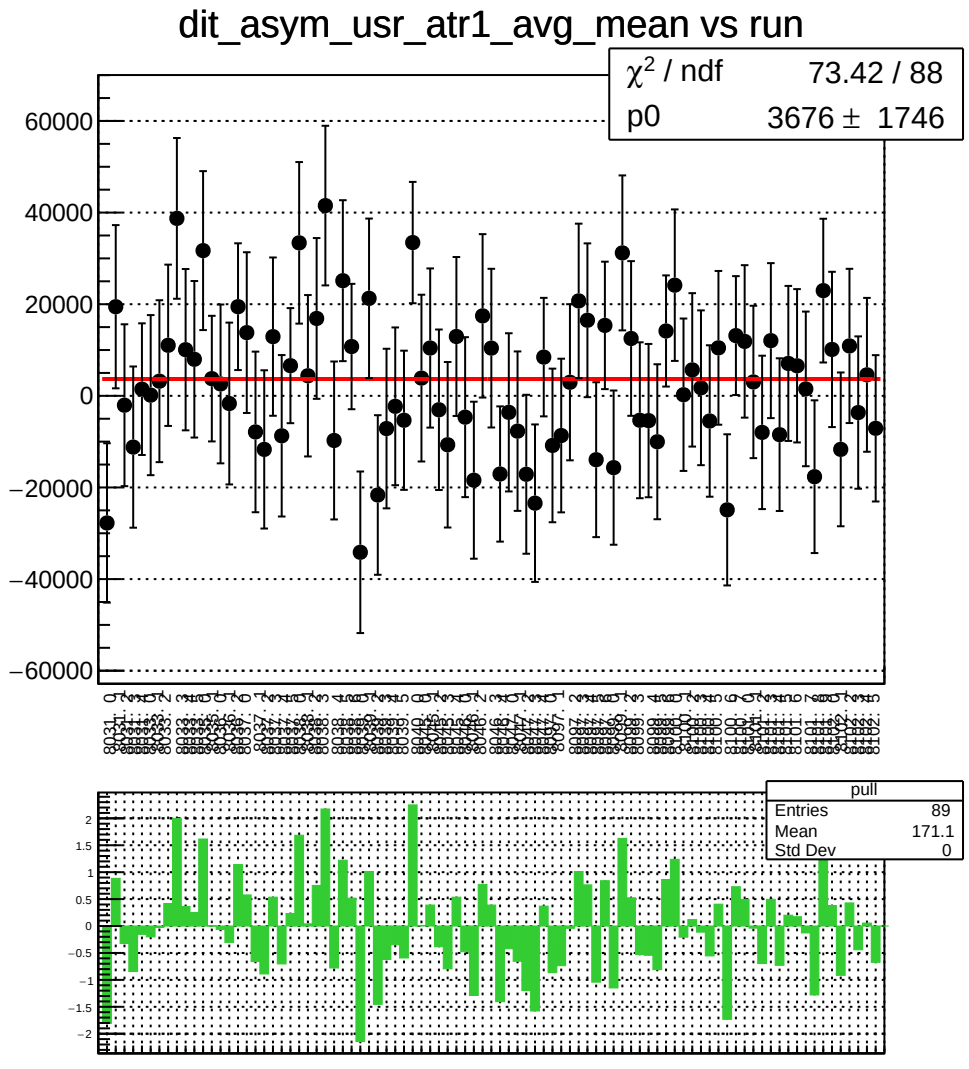

pull1D
Entries 89
Mean −0.01897
Std Dev 0.9153
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

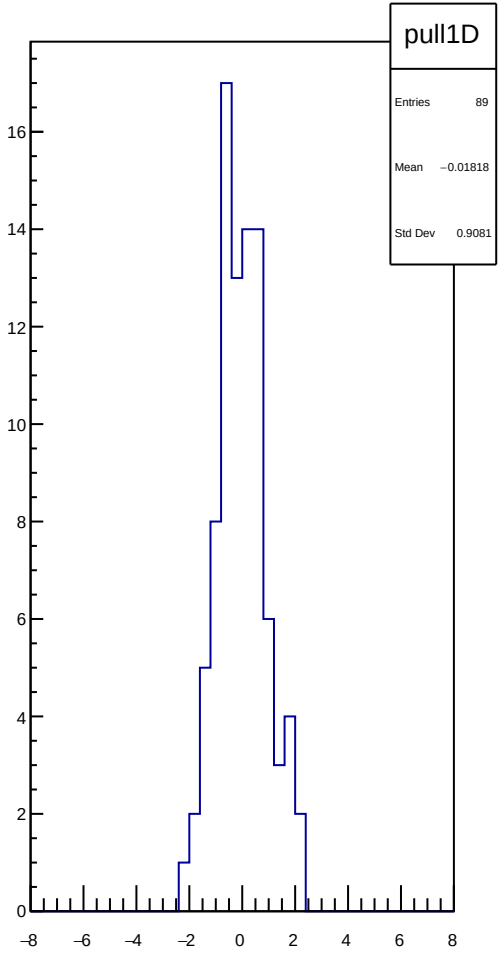

eigen_cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 809.5 / 88
p0 1626 ± 1.23
1720
1700
1680
1660
1640
1620
1600
1580
1560
1540

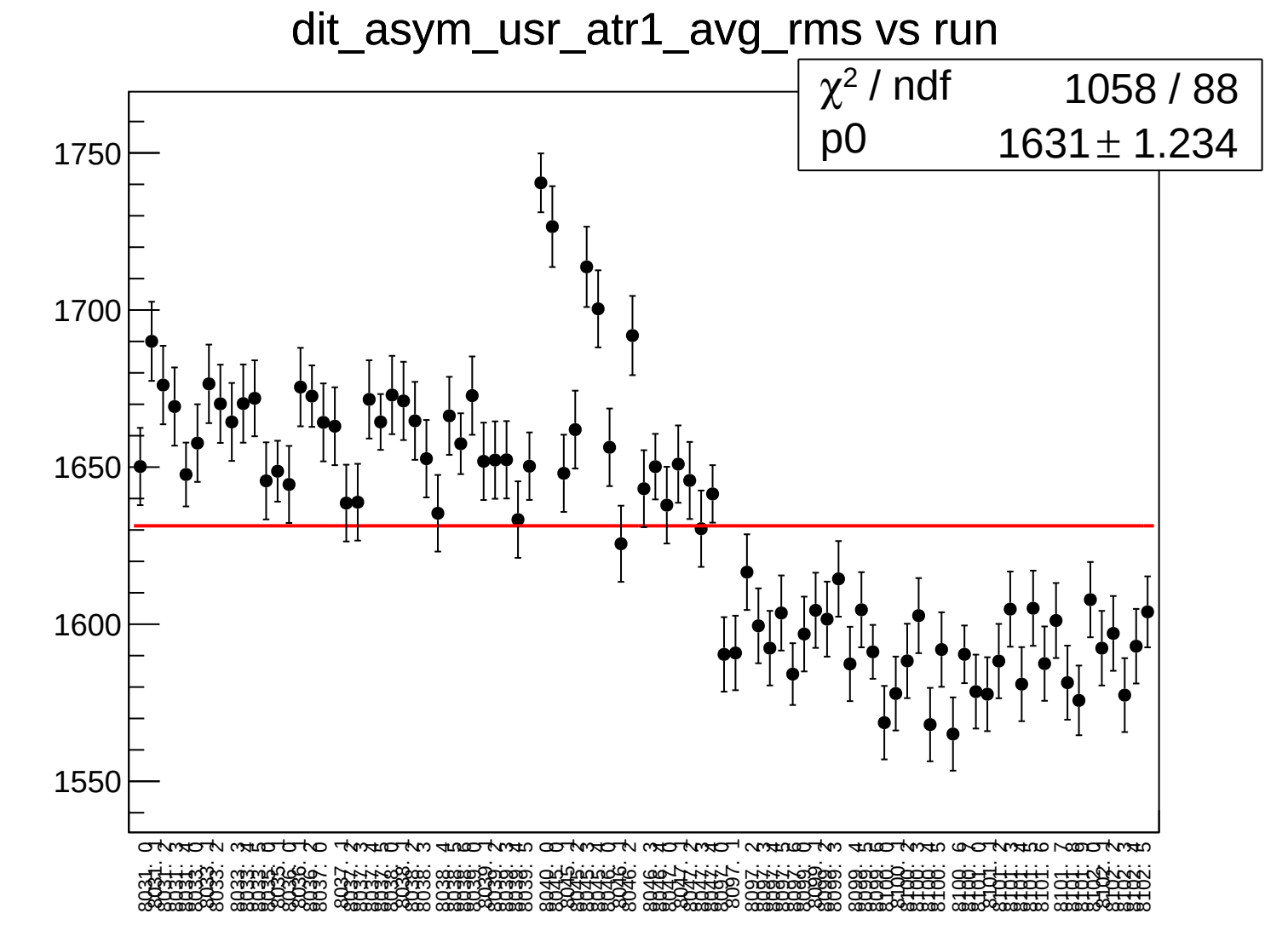

asym_usr_atr1_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 94.24 / 88
p0 471.7 ± 1507
pull
Entries 89
Mean −59.07
Std Dev 0

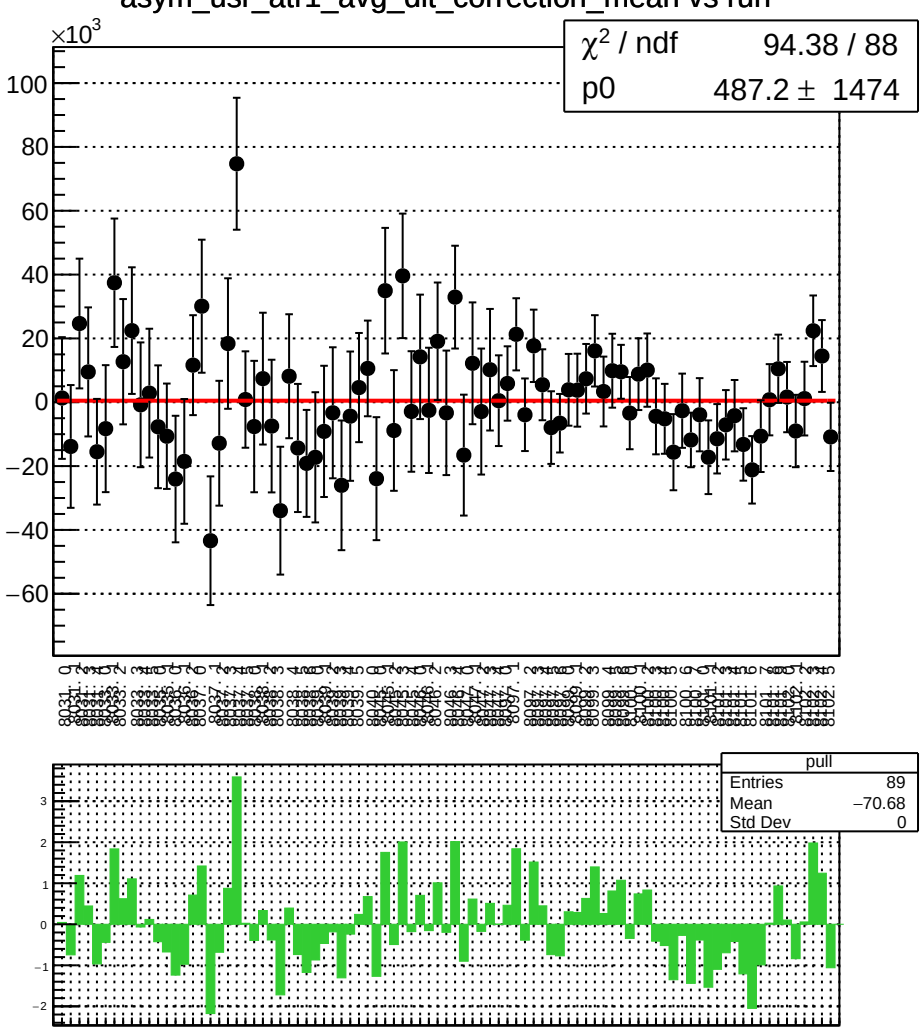

pull1D
Entries 89
Mean 0.01868
Std Dev 1.029

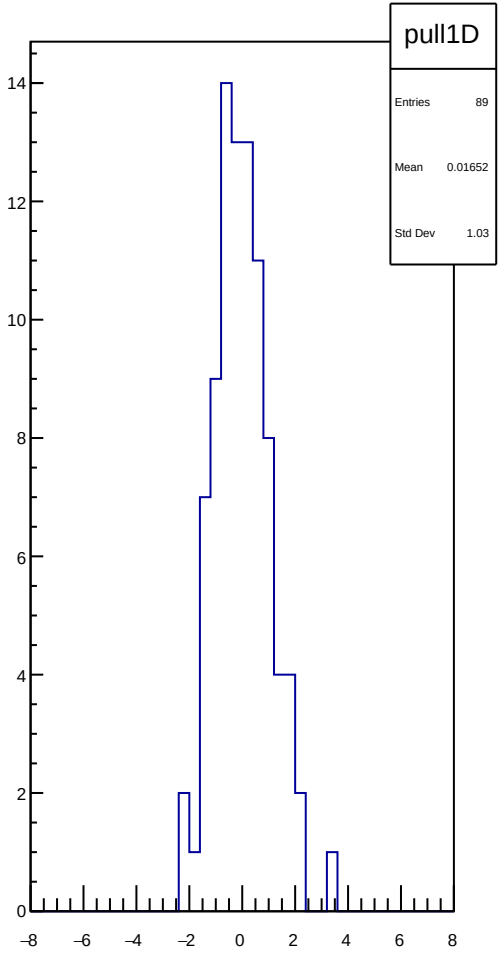

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.572e+05 / 88
p0 1344 ± 1.066
2400
2200
2000
1800
1600
1400
1200
1000

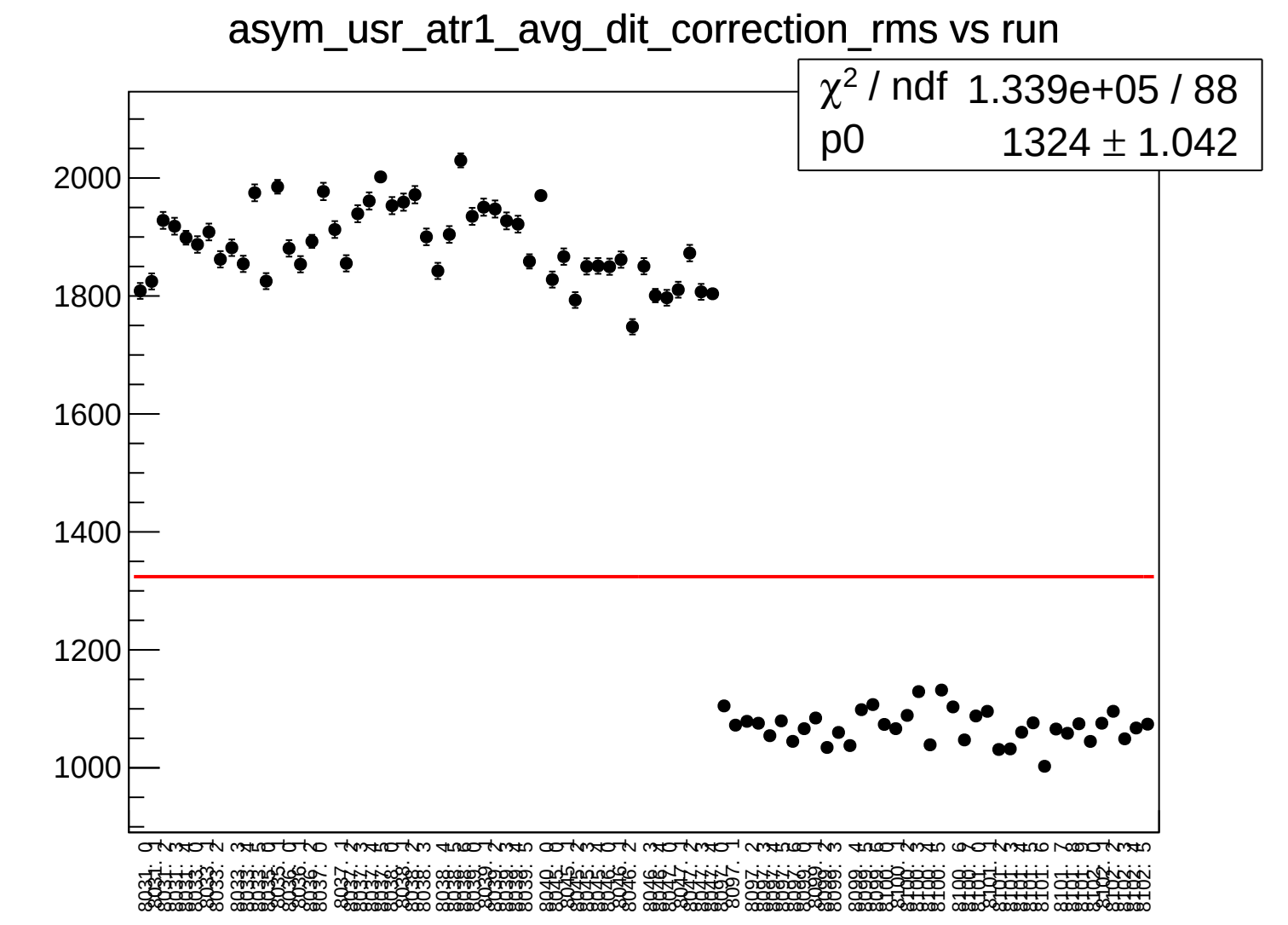

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 73.42 / 88
p0 3676 ± 1746
pull
Entries 89
Mean 171.1
Std Dev 0

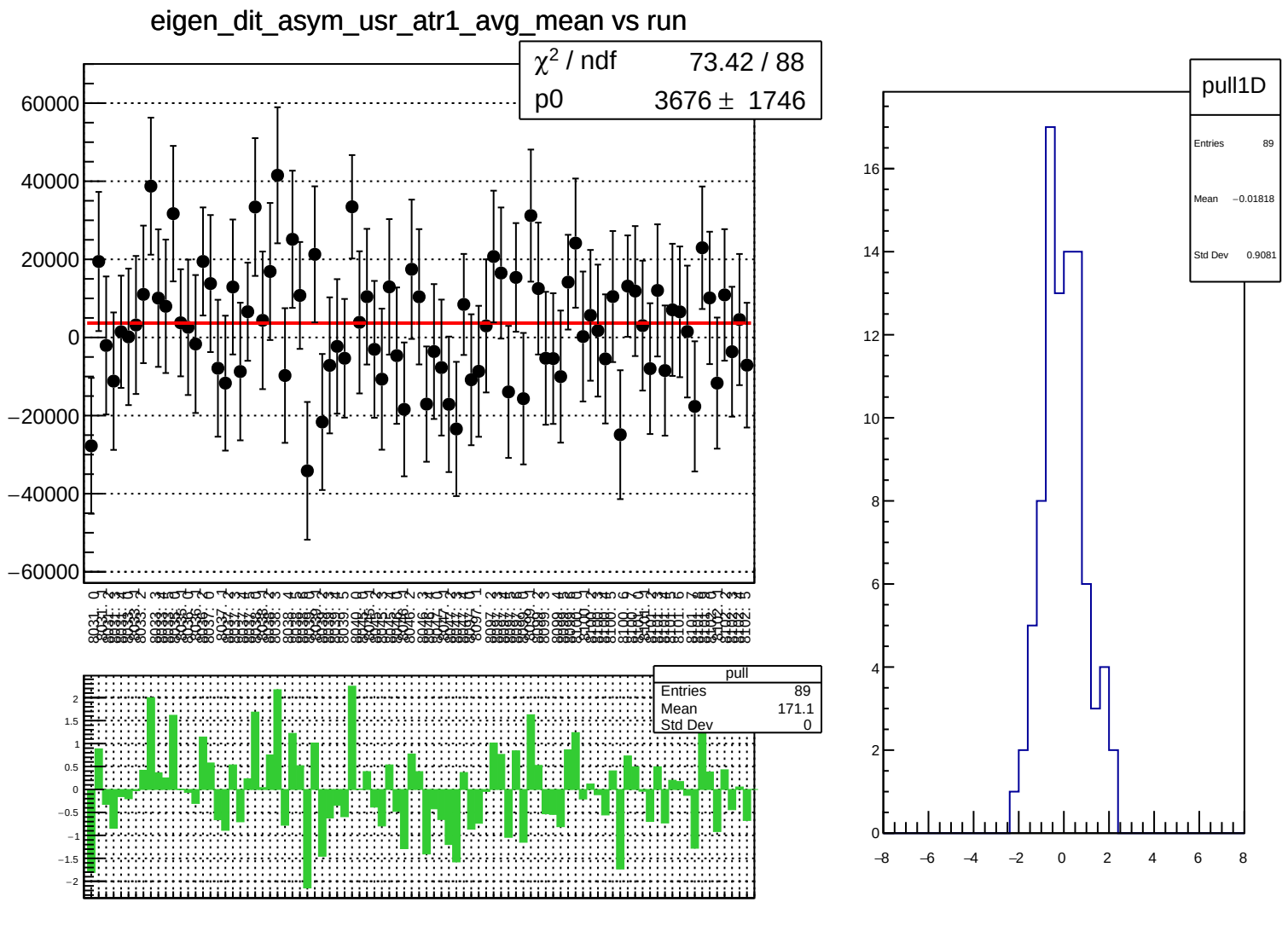

pull1D
Entries 89
Mean −0.01818
Std Dev 0.9081

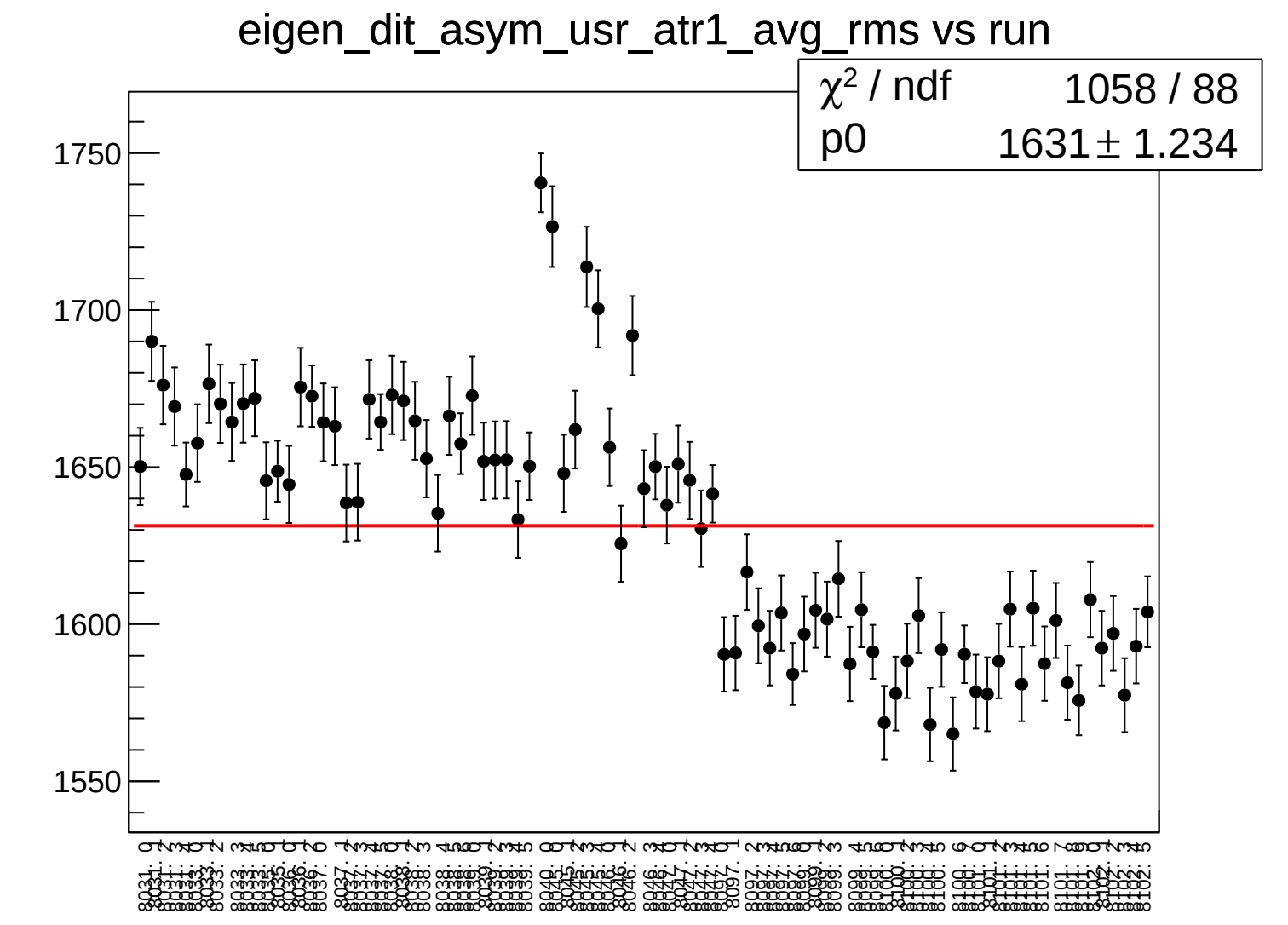

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 1058 / 88
p0 1631 ± 1.234
1750
1700
1650
1600
1550

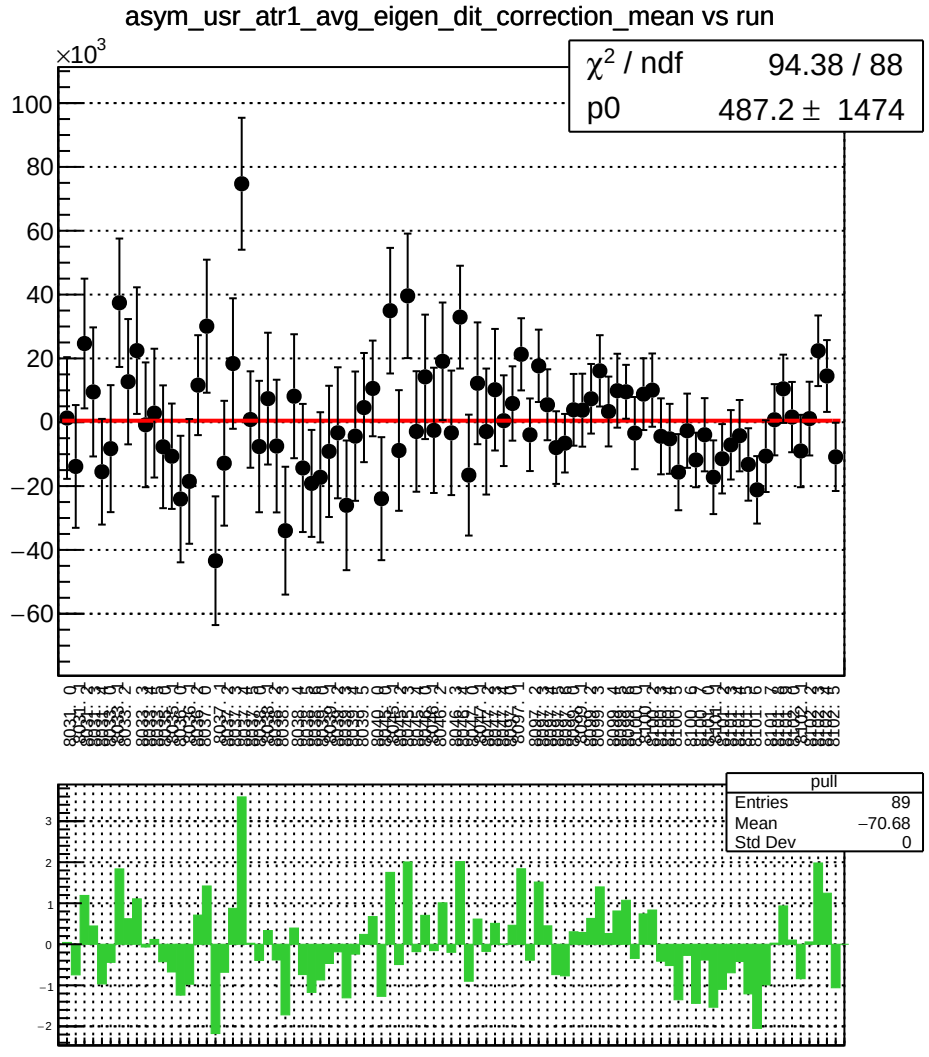

asym_usr_atr1_avg_dit_correction_mean vs run
×10^3
χ² / ndf 94.38 / 88
p0 487.2 ± 1474
pull
Entries 89
Mean −70.68
Std Dev 0

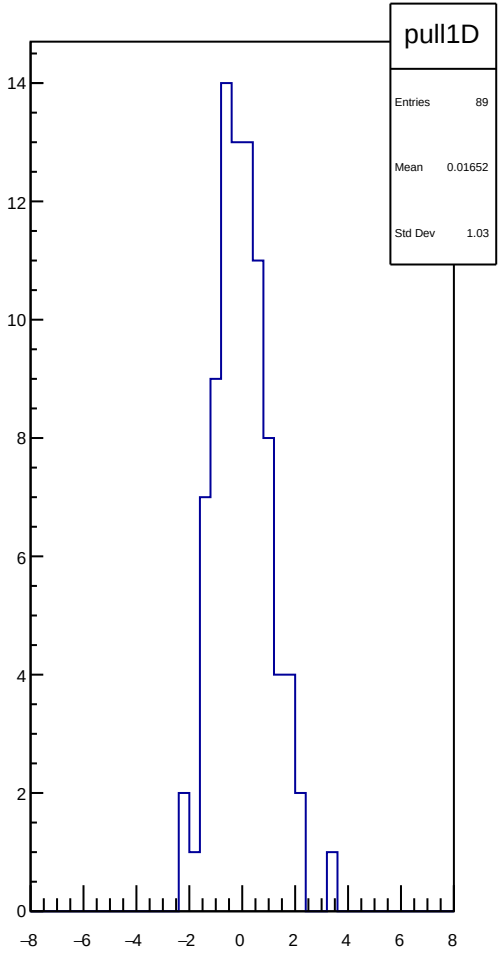

pull1D
Entries 89
Mean 0.01652
Std Dev 1.03

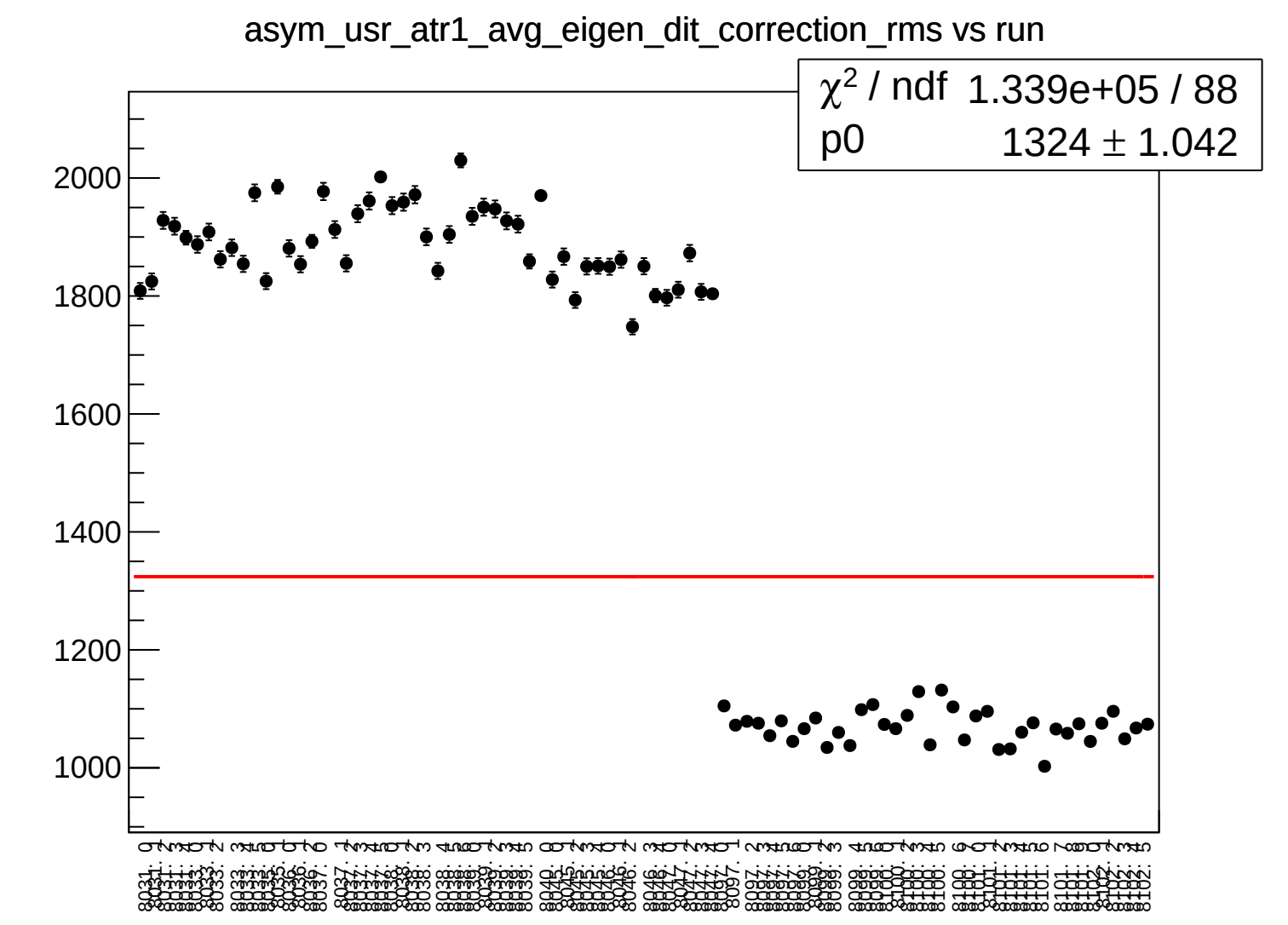

asym_usr_atr1_avg_dit_correction_rms vs run
χ² / ndf 1.339e+05 / 88
p0 1324 ± 1.042
2000
1800
1600
1400
1200
1000

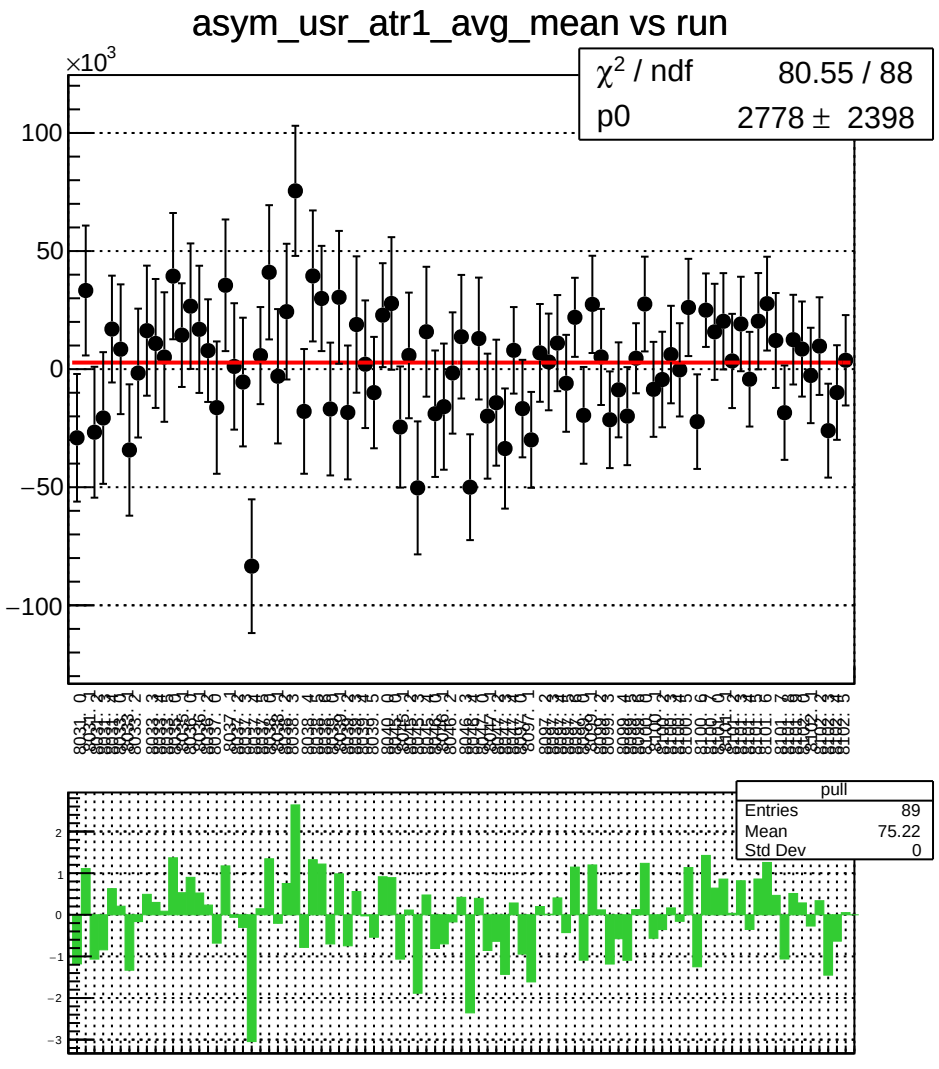

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 73.42 / 88
p0 3676 ± 1746
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 171.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.01818
Std Dev 0.9081
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

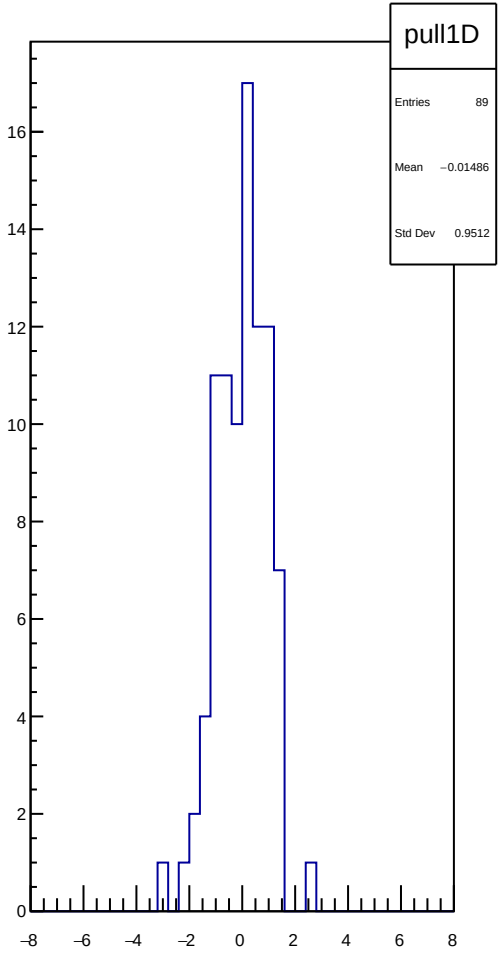

eigen_dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 1058 / 88
p0 1631 ± 1.234
1750
1700
1650
1600
1550

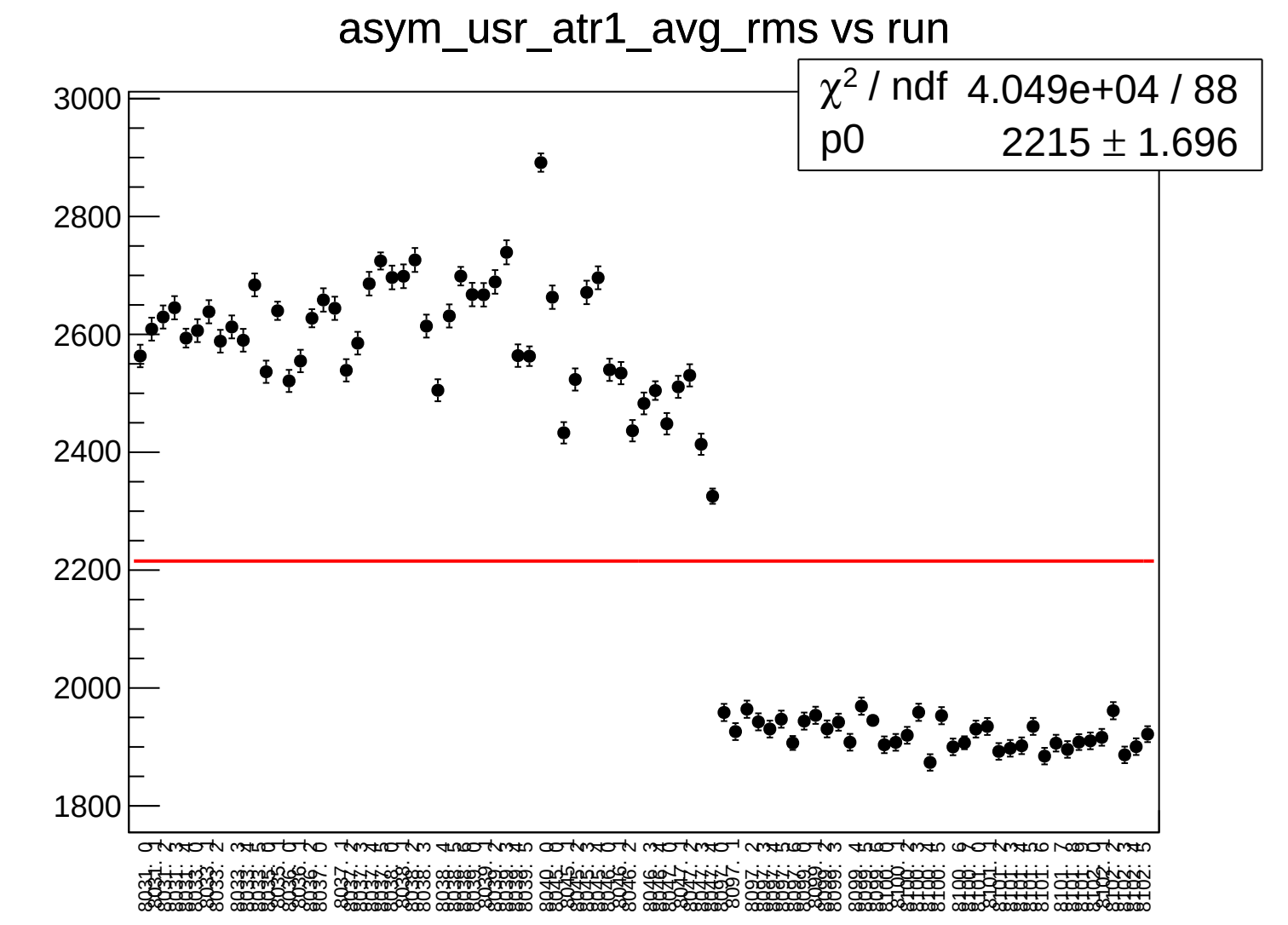

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 94.38 / 88
p0 487.2 ± 1474
pull
Entries 89
Mean −70.68
Std Dev 0

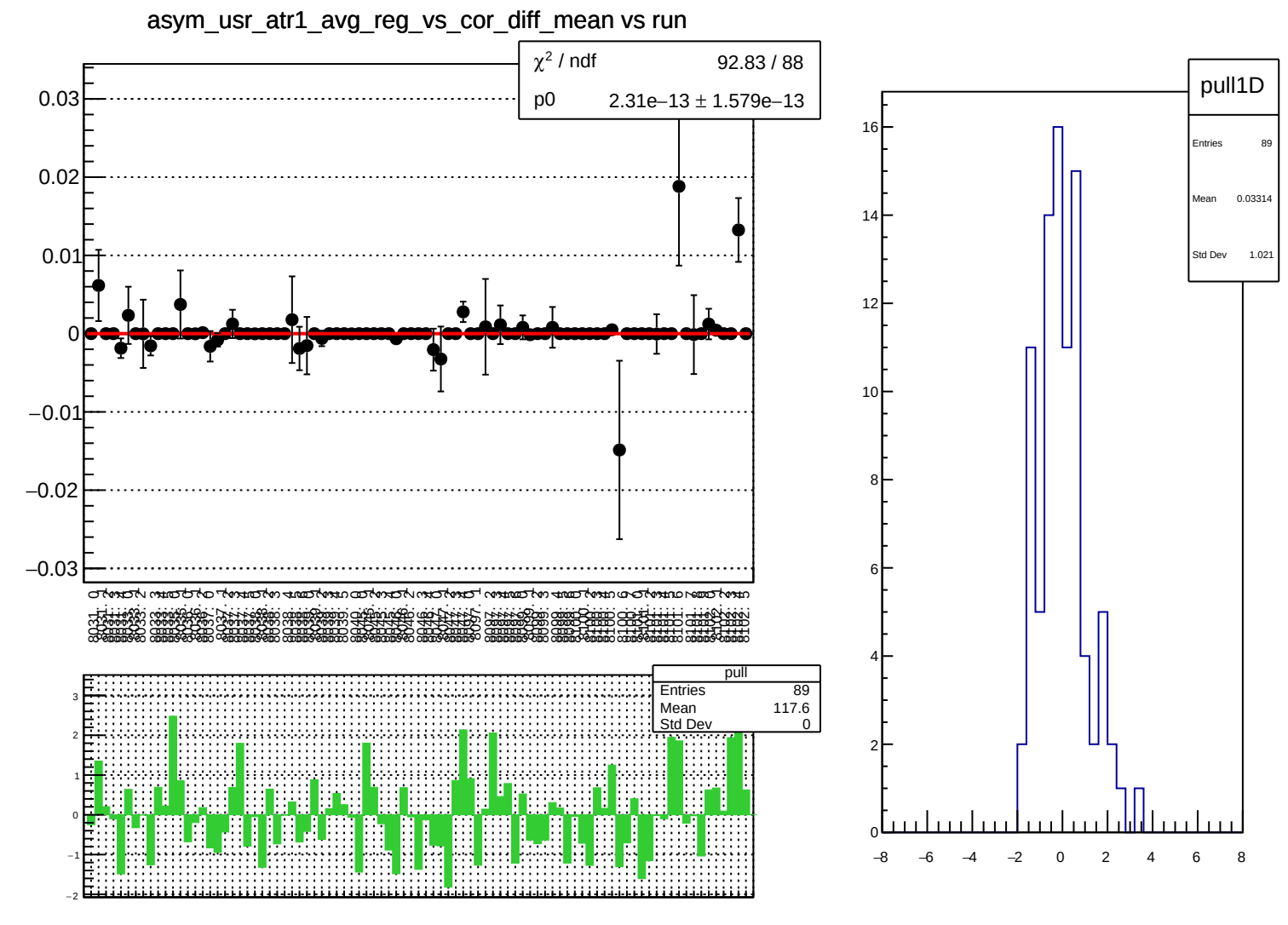

pull1D
Entries 89
Mean 0.01652
Std Dev 1.03

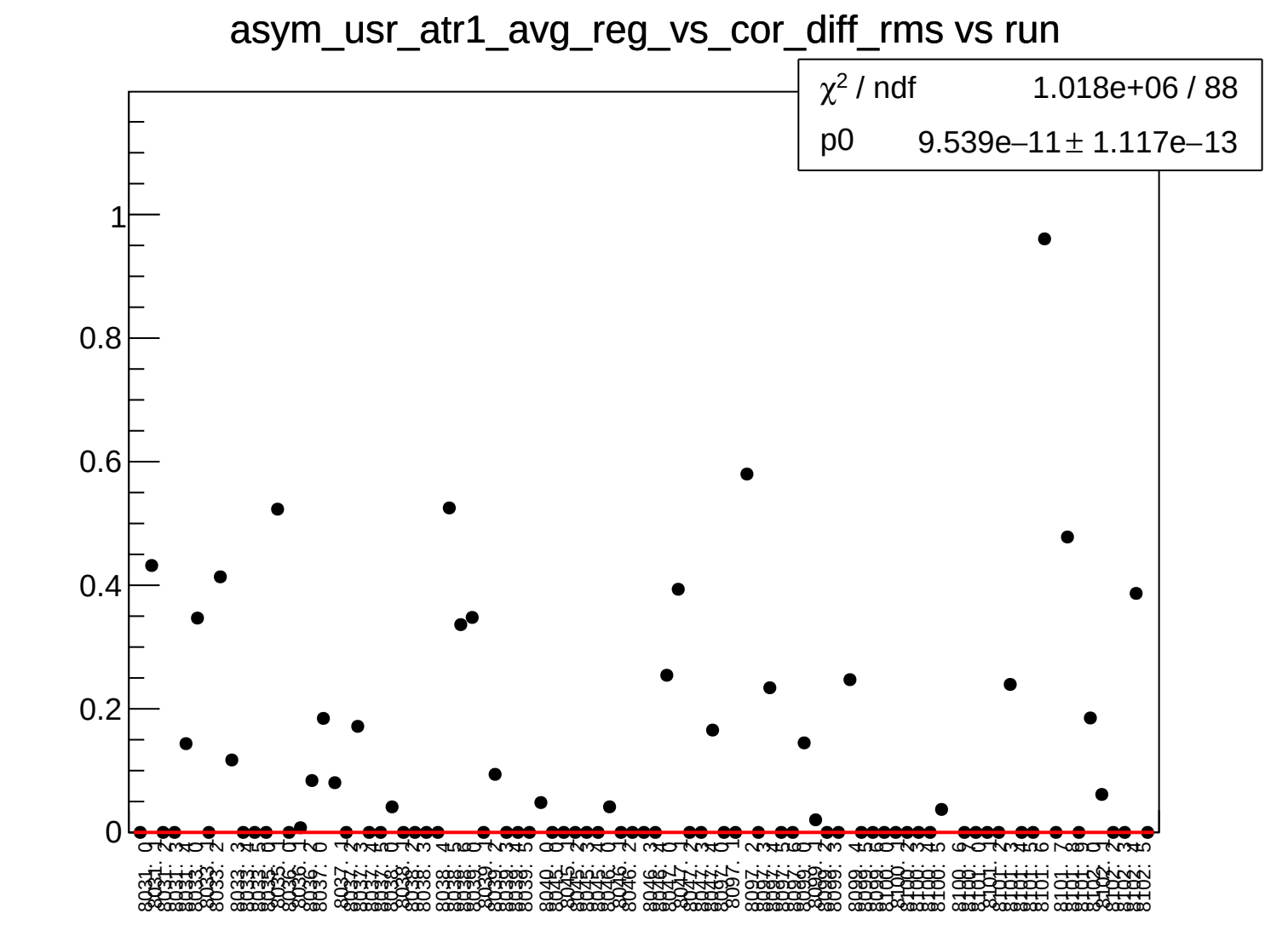

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.339e+05 / 88
p0 1324 ± 1.042
2000
1800
1600
1400
1200
1000

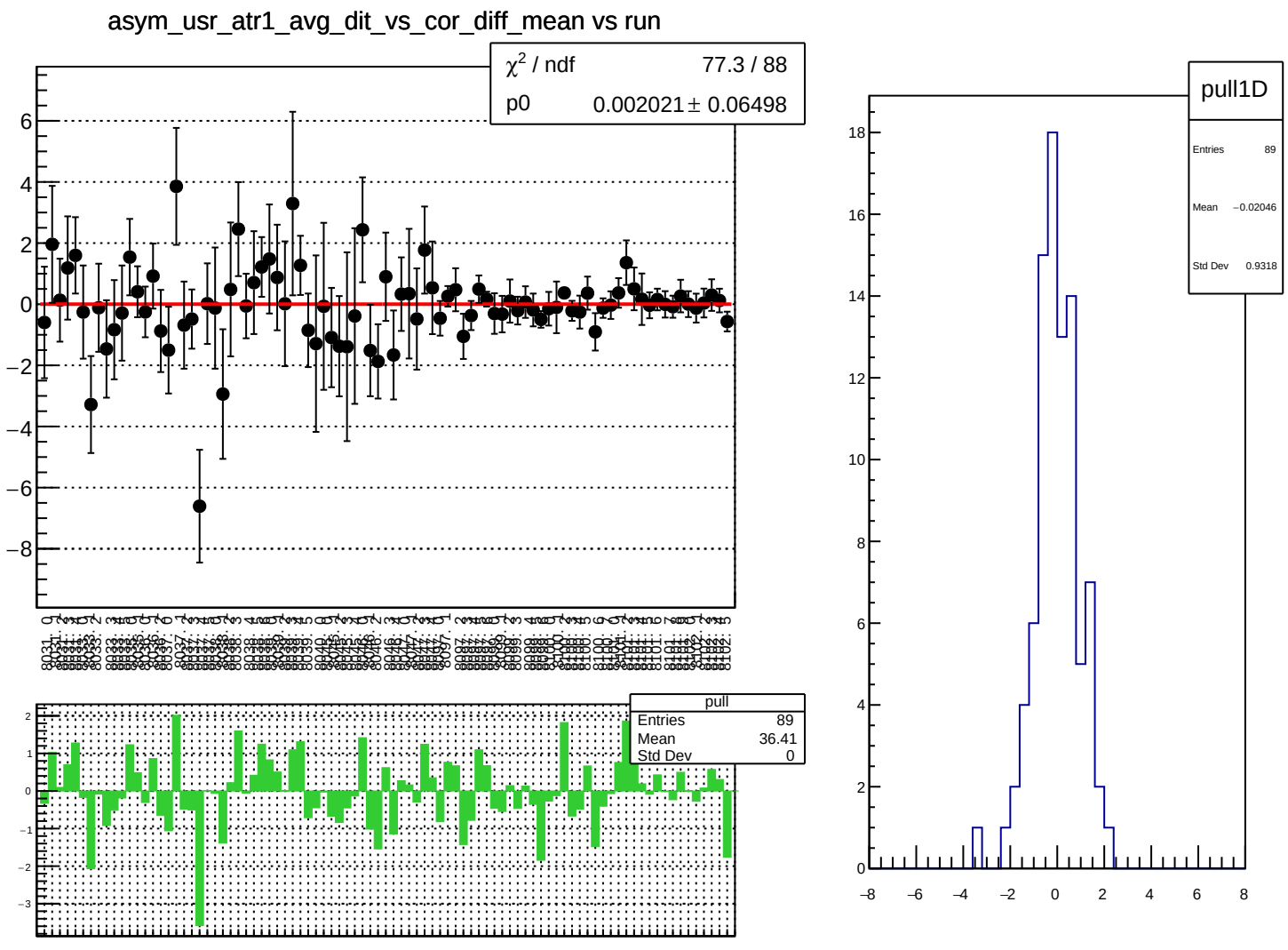

asym_usr_atr1_avg_mean vs run
×10^3
χ^2 / ndf 80.55 / 88
p0 2778 ± 2398
100
50
0
−50
−100
pull
Entries 89
Mean 75.22
Std Dev 0
2
1
0
−1
−2
−3

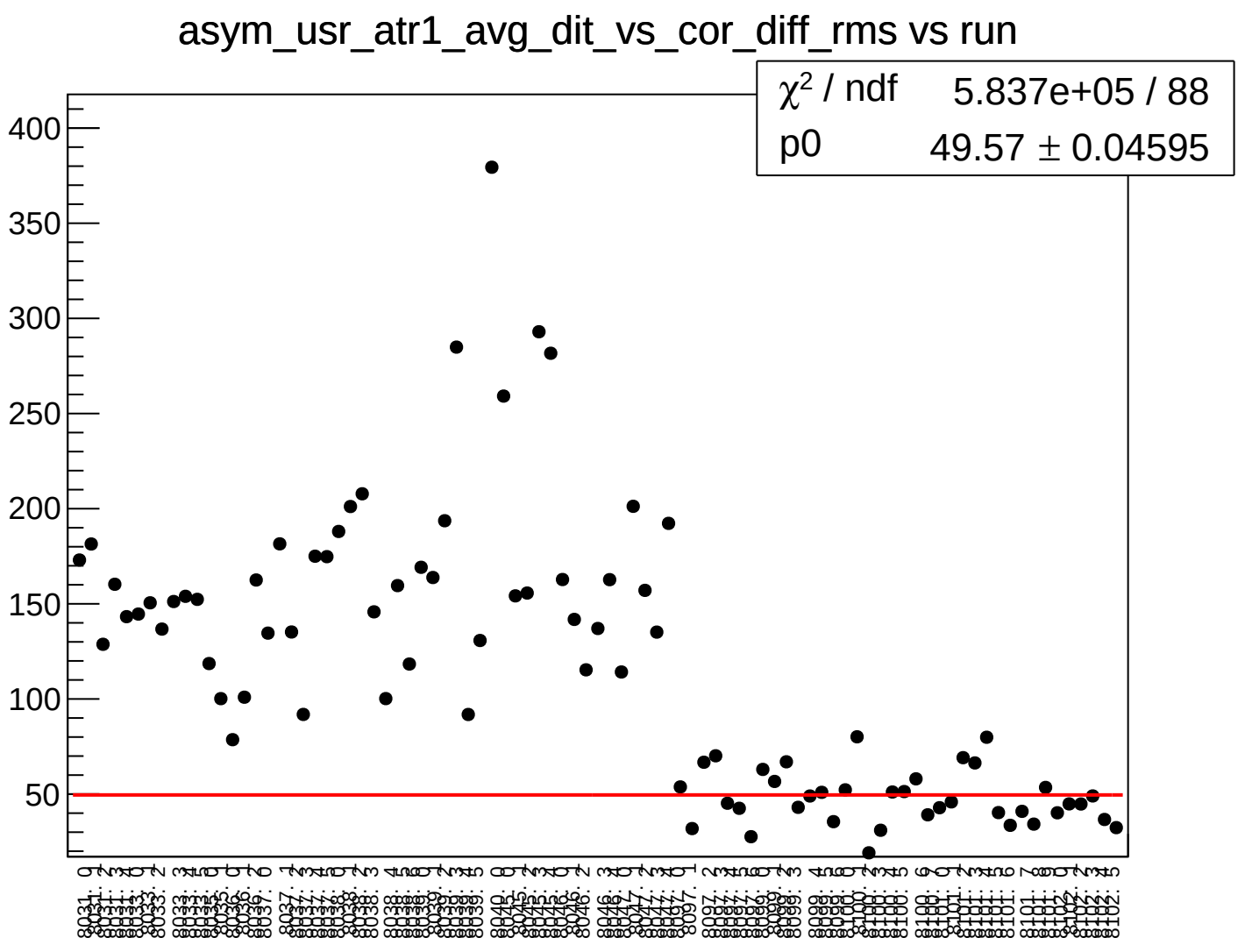

pull1D
Entries 89
Mean −0.01486
Std Dev 0.9512
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

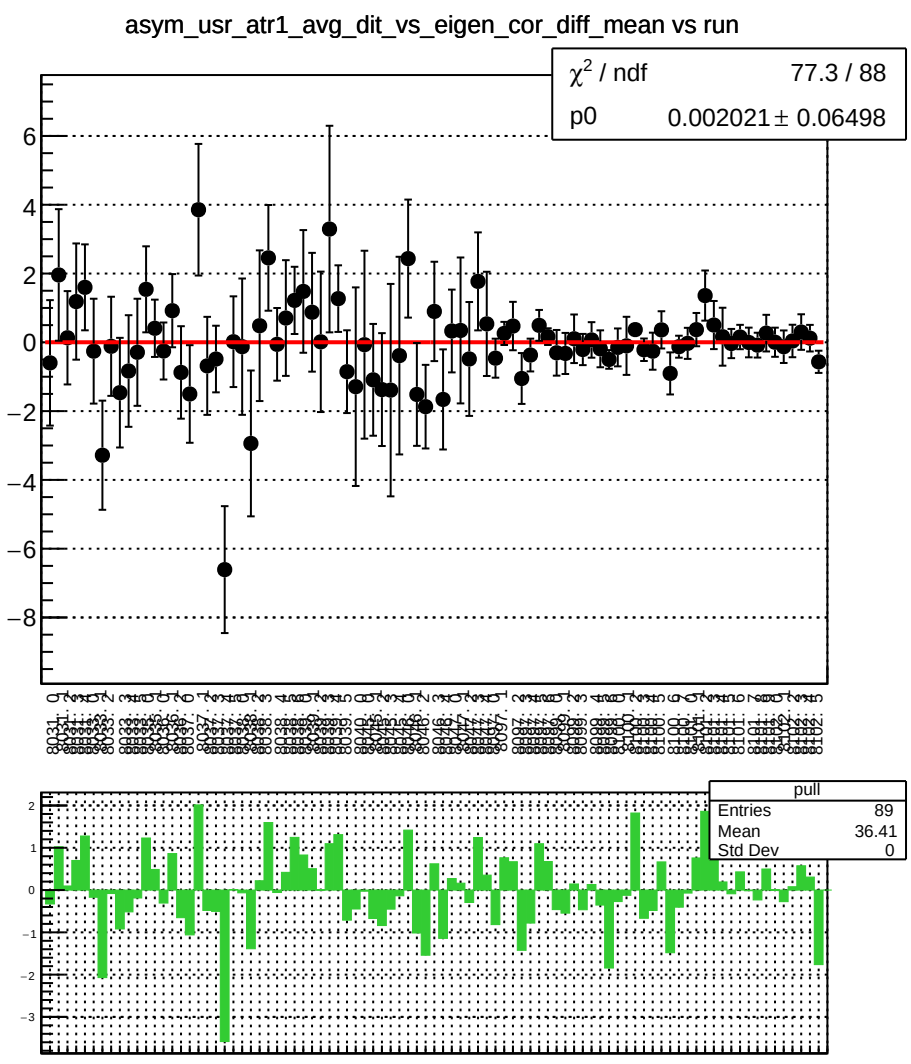

asym_usr_atr1_avg_rms vs run
χ² / ndf 4.049e+04 / 88
p0 2215 ± 1.696
3000
2800
2600
2400
2200
2000
1800

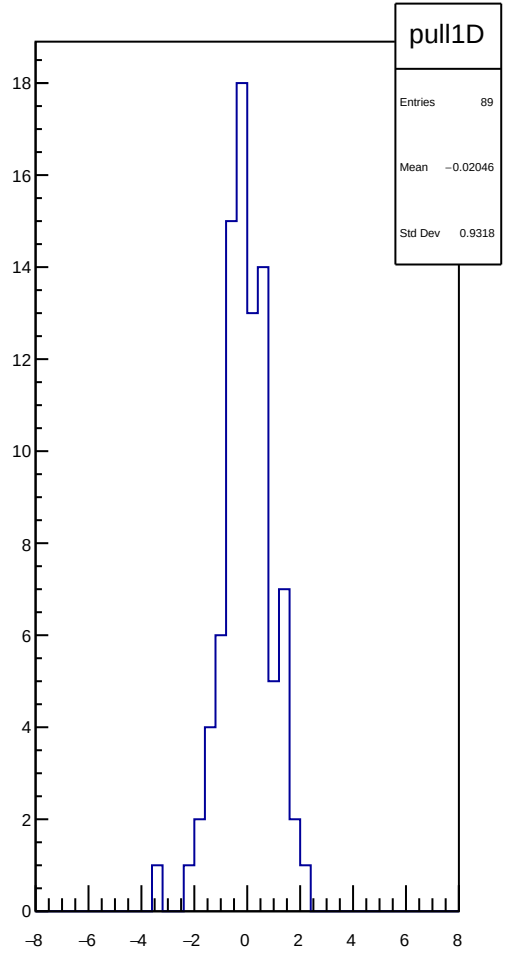

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 92.83 / 88
p0 2.31e−13 ± 1.579e−13
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 89
Mean 117.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.03314
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

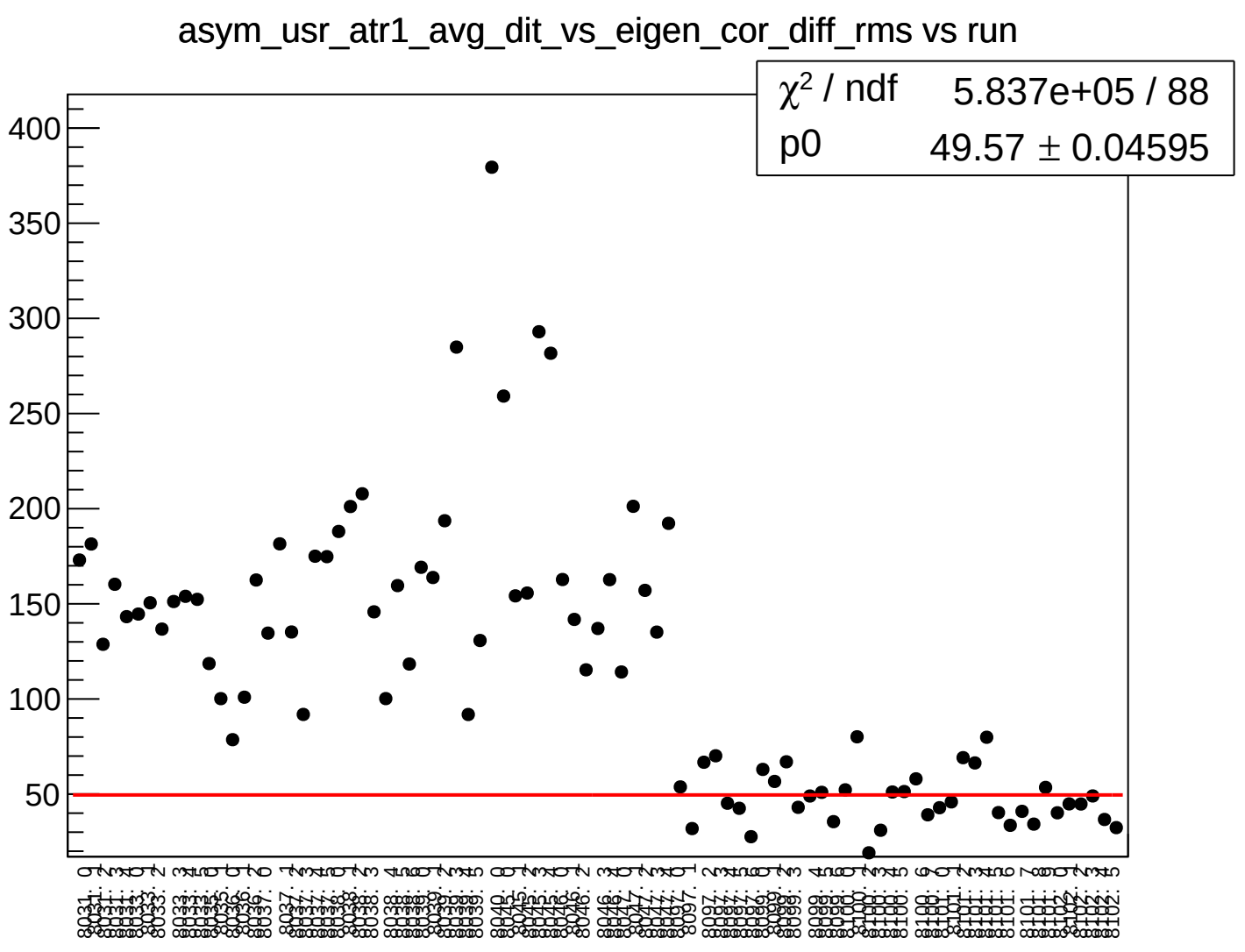

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.018e+06 / 88
p0 9.539e−11 ± 1.117e−13
1
0.8
0.6
0.4
0.2
0

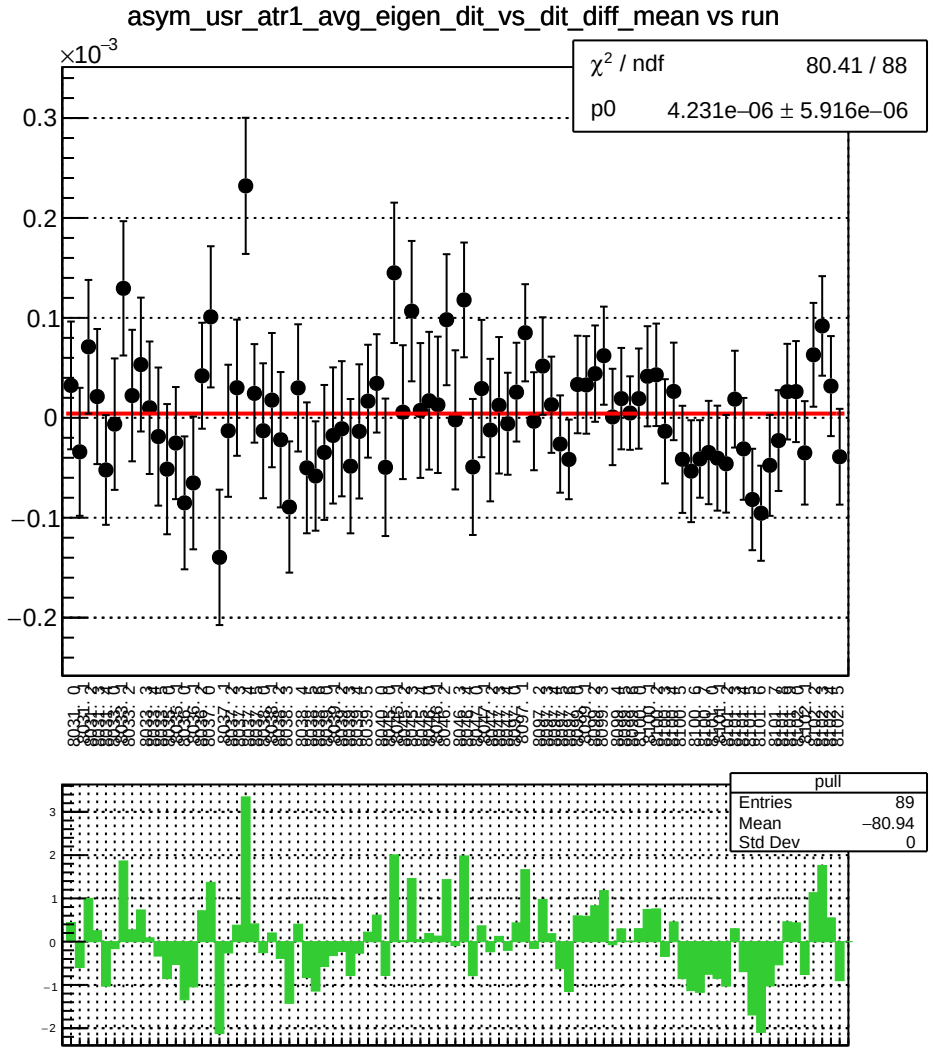

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 77.3 / 88
p0 0.002021 ± 0.06498
pull
Entries 89
Mean 36.41
Std Dev 0
pull1D
Entries 89
Mean −0.02046
Std Dev 0.9318

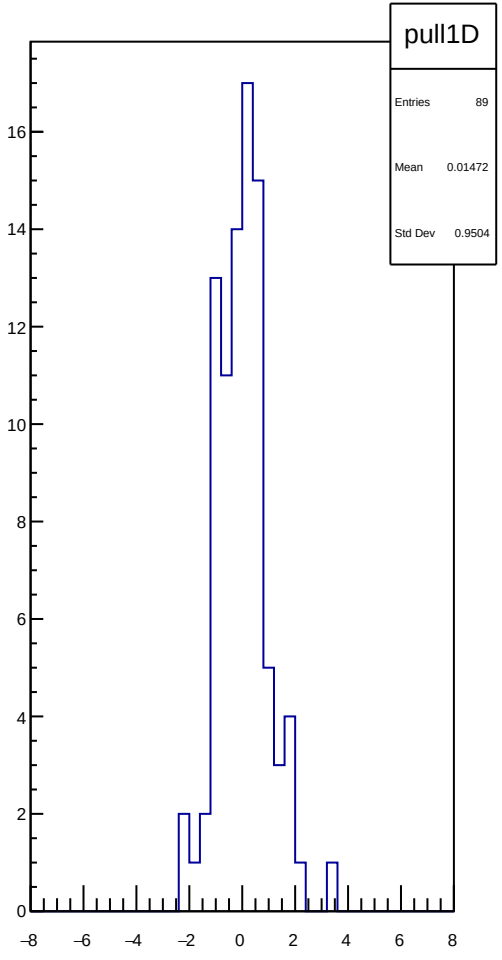

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 5.837e+05 / 88
p0 49.57 ± 0.04595
400
350
300
250
200
150
100
50

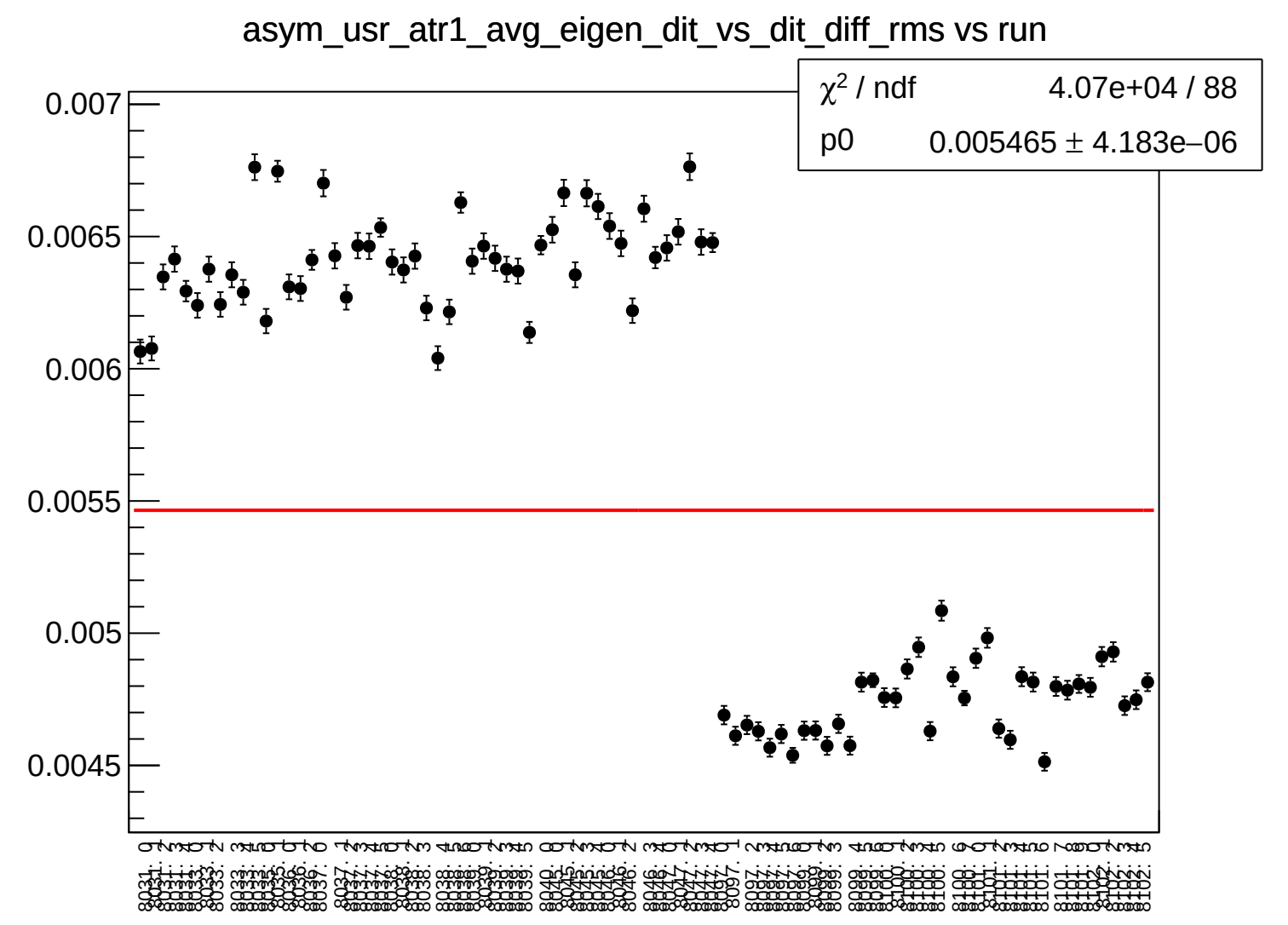

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.3 / 88
p0 0.002021 ± 0.06498
pull
Entries 89
Mean 36.41
Std Dev 0

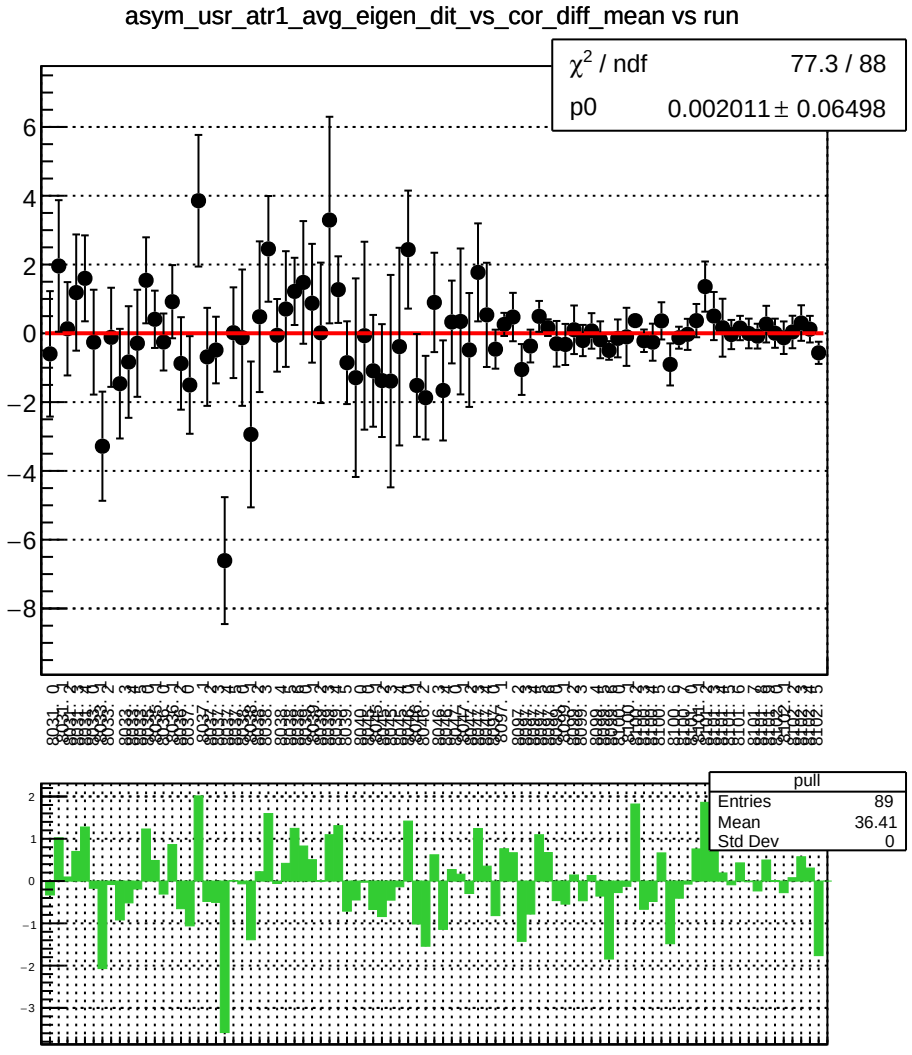

pull1D
Entries 89
Mean −0.02046
Std Dev 0.9318

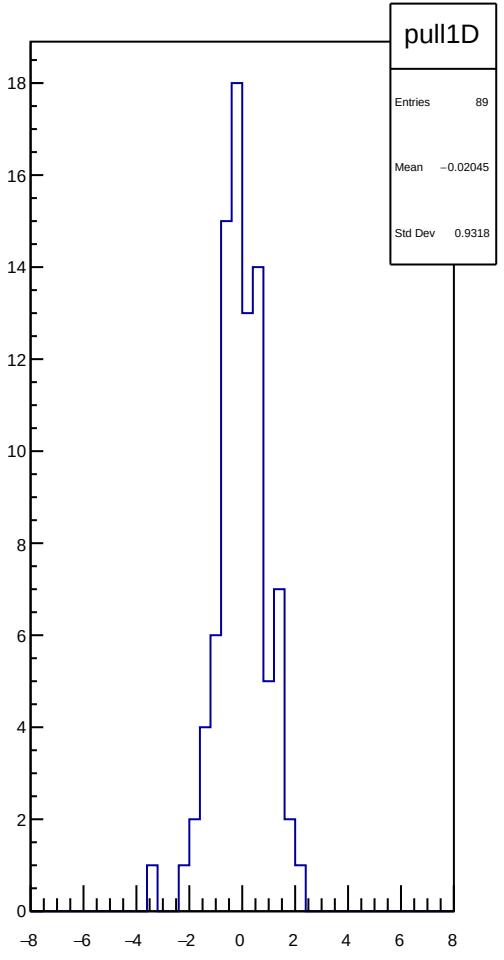

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.837e+05 / 88
p0 49.57 ± 0.04595
400
350
300
250
200
150
100
50

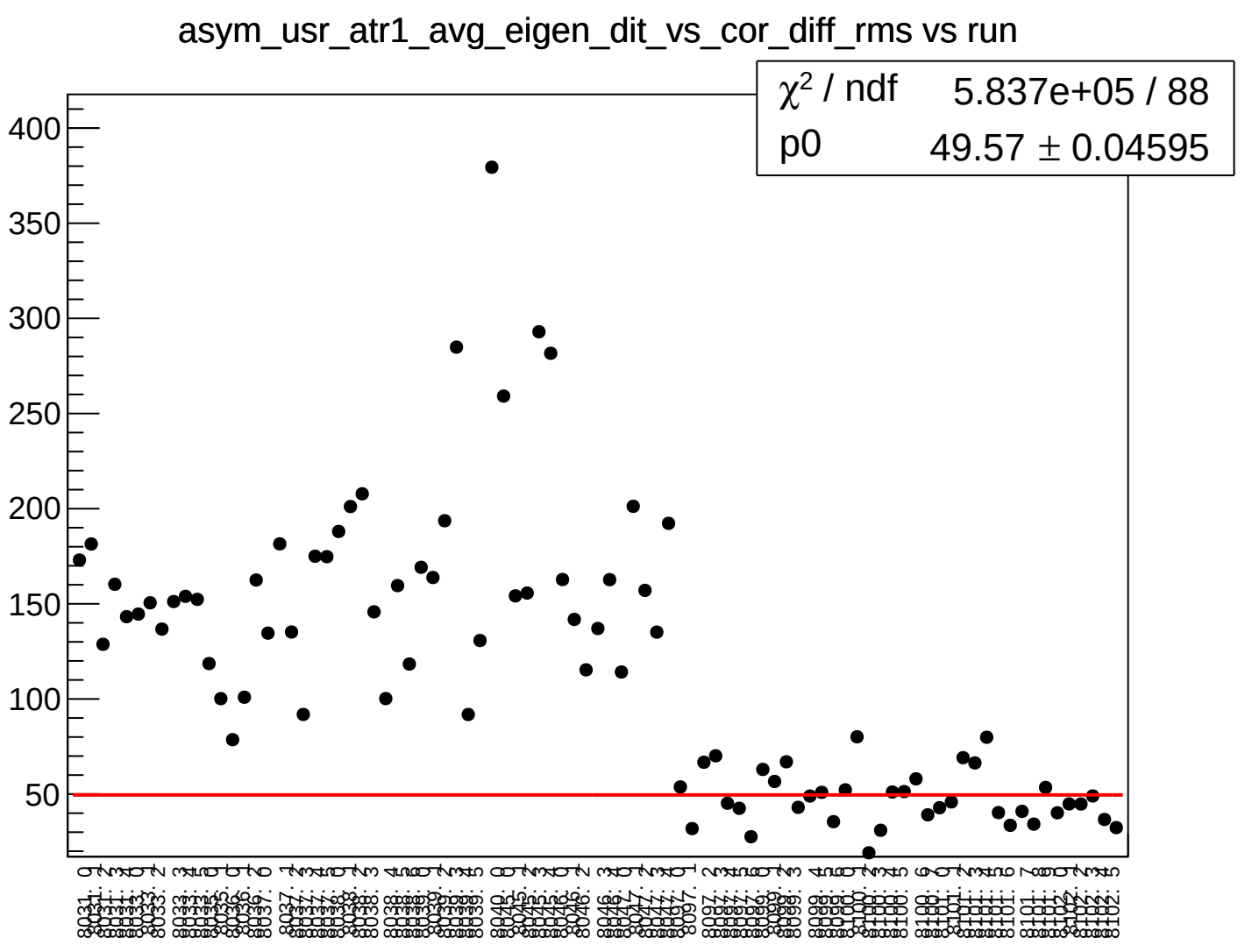

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.41 / 88
p0 4.231e−06 ± 5.916e−06
pull
Entries 89
Mean −80.94
Std Dev 0

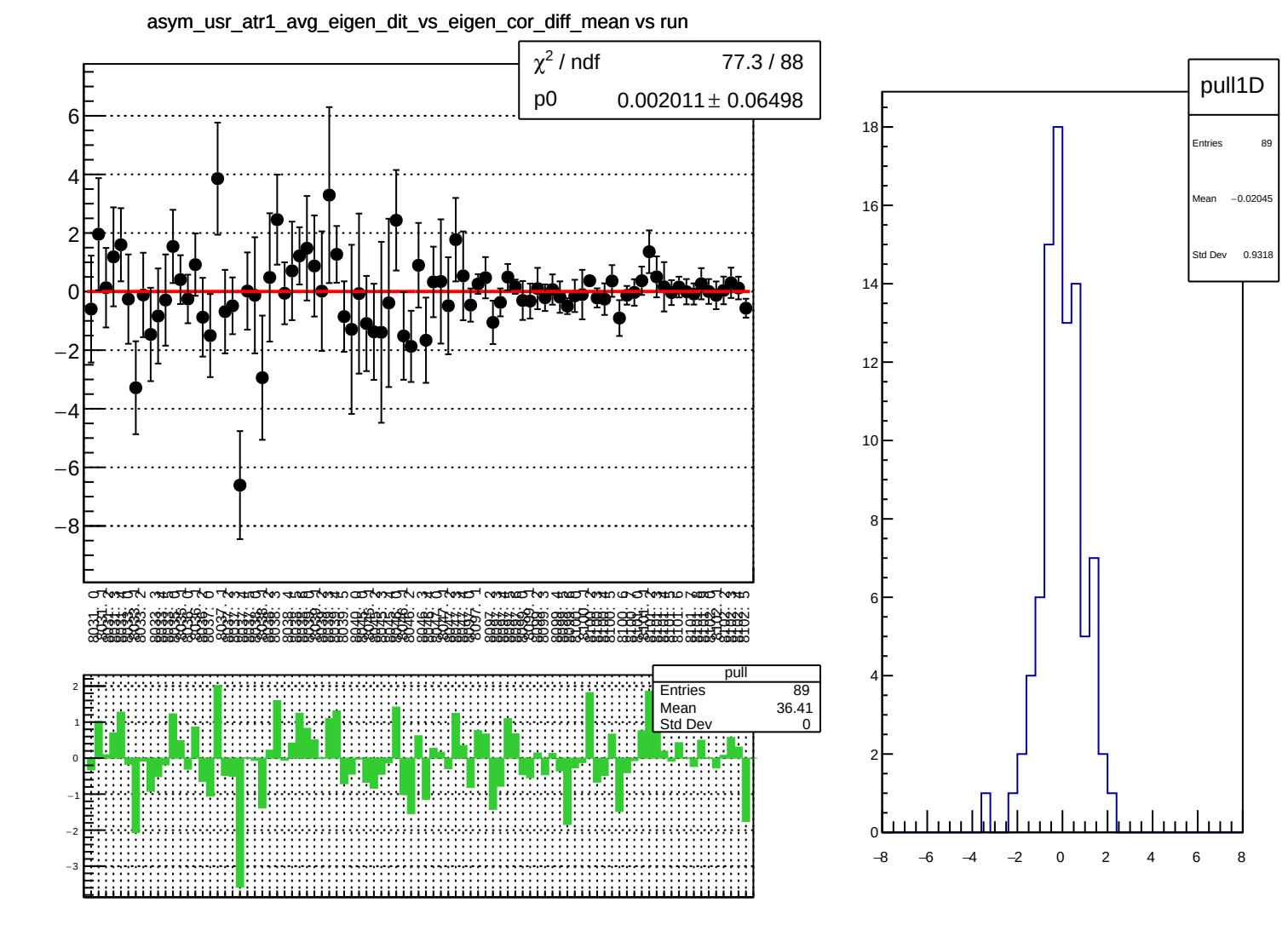

pull1D
Entries 89
Mean 0.01472
Std Dev 0.9504

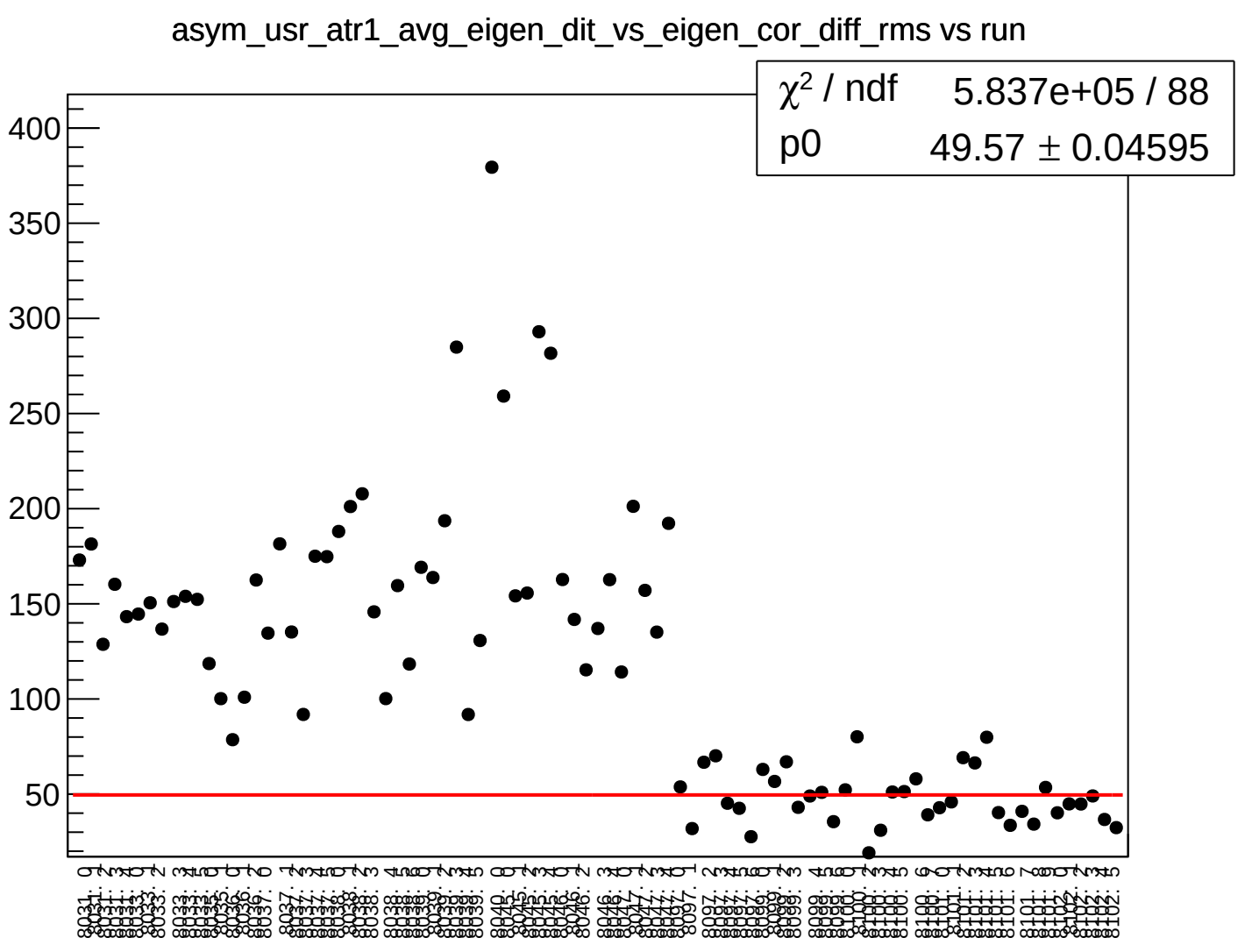

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.07e+04 / 88
p0 0.005465 ± 4.183e−06
0.007
0.0065
0.006
0.0055
0.005
0.0045

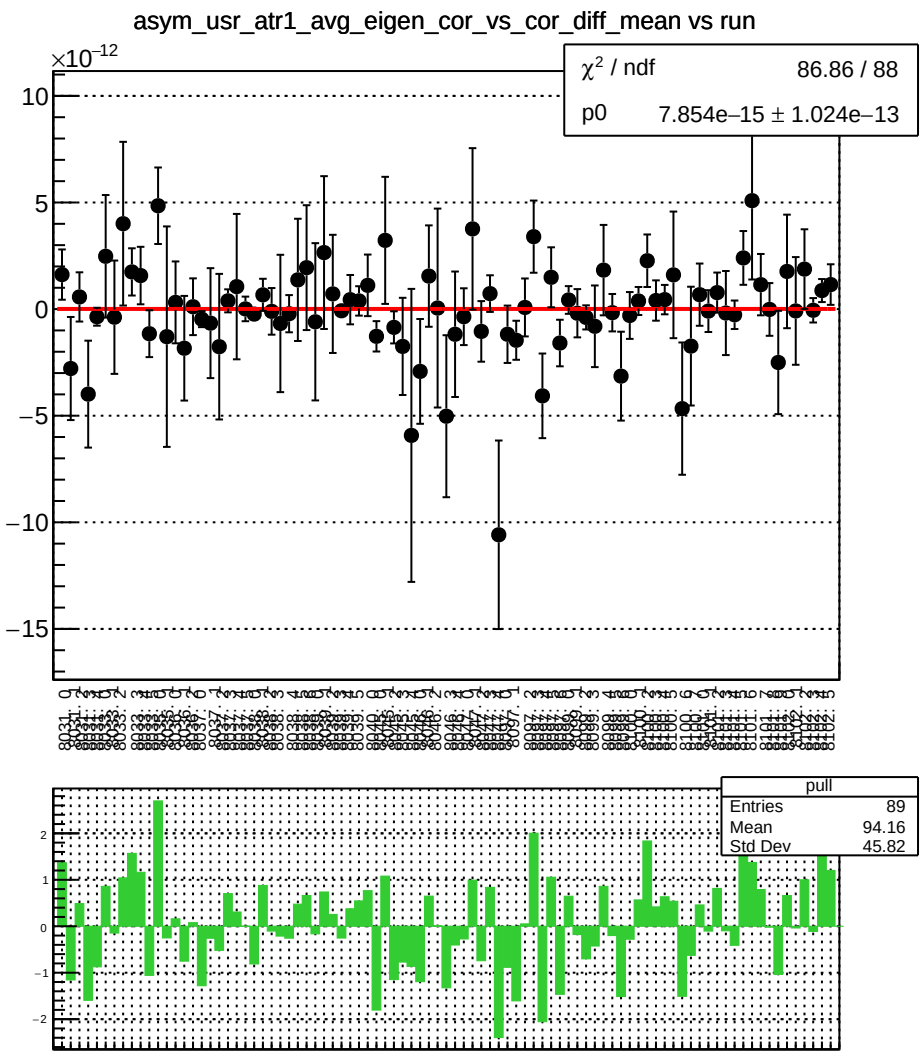

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.3 / 88
p0 0.002011 ± 0.06498
pull
Entries 89
Mean 36.41
Std Dev 0

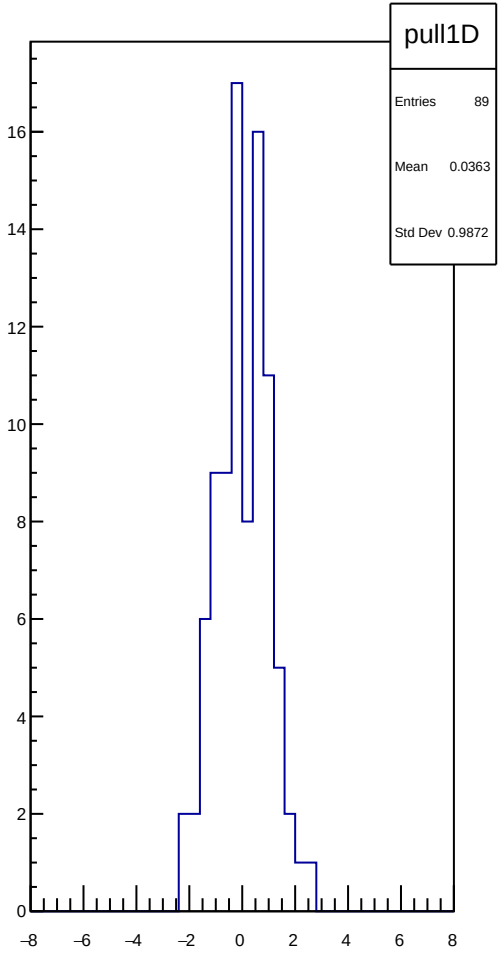

pull1D
Entries 89
Mean −0.02045
Std Dev 0.9318

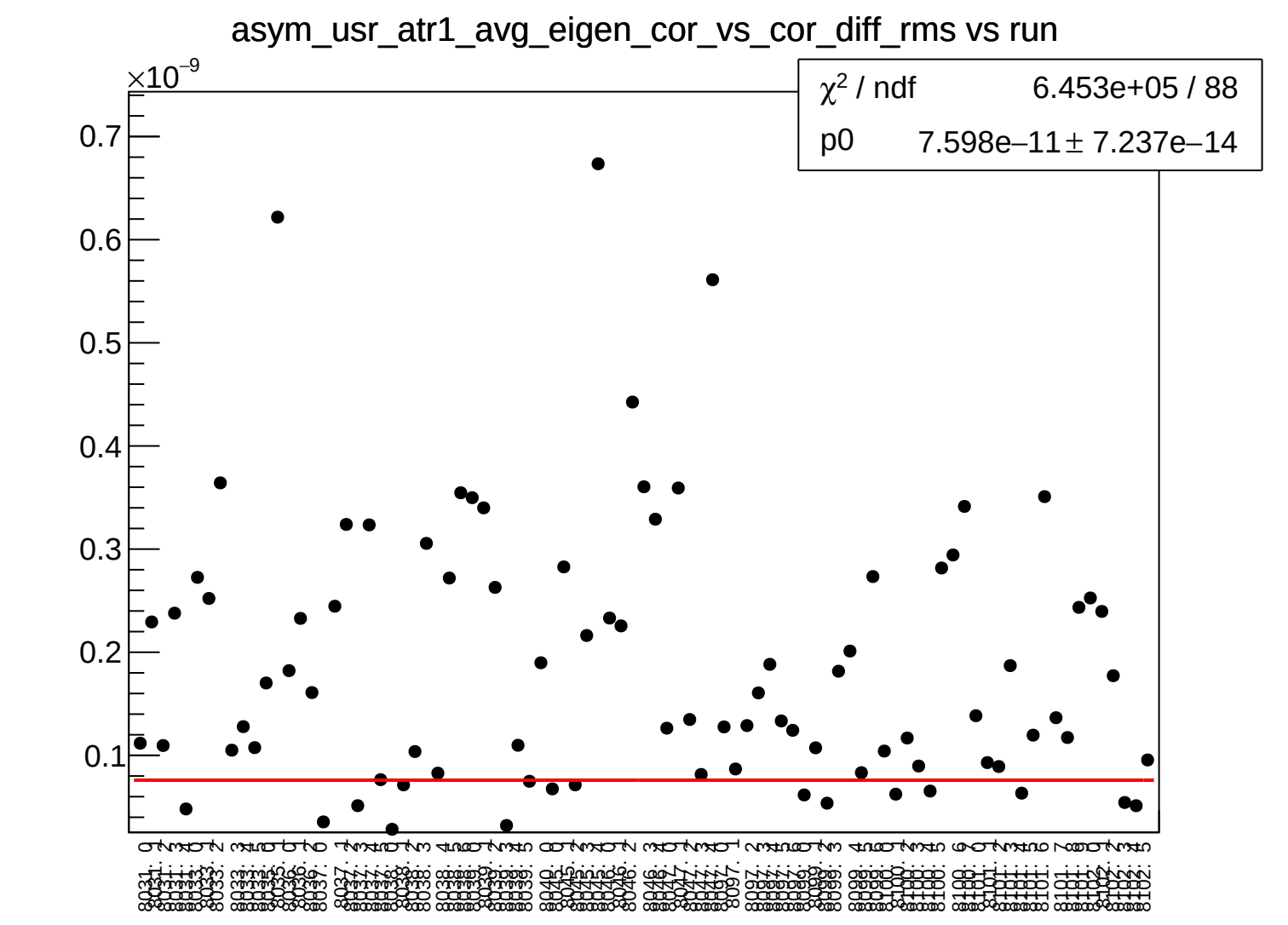

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.837e+05 / 88
p0 49.57 ± 0.04595
400
350
300
250
200
150
100
50

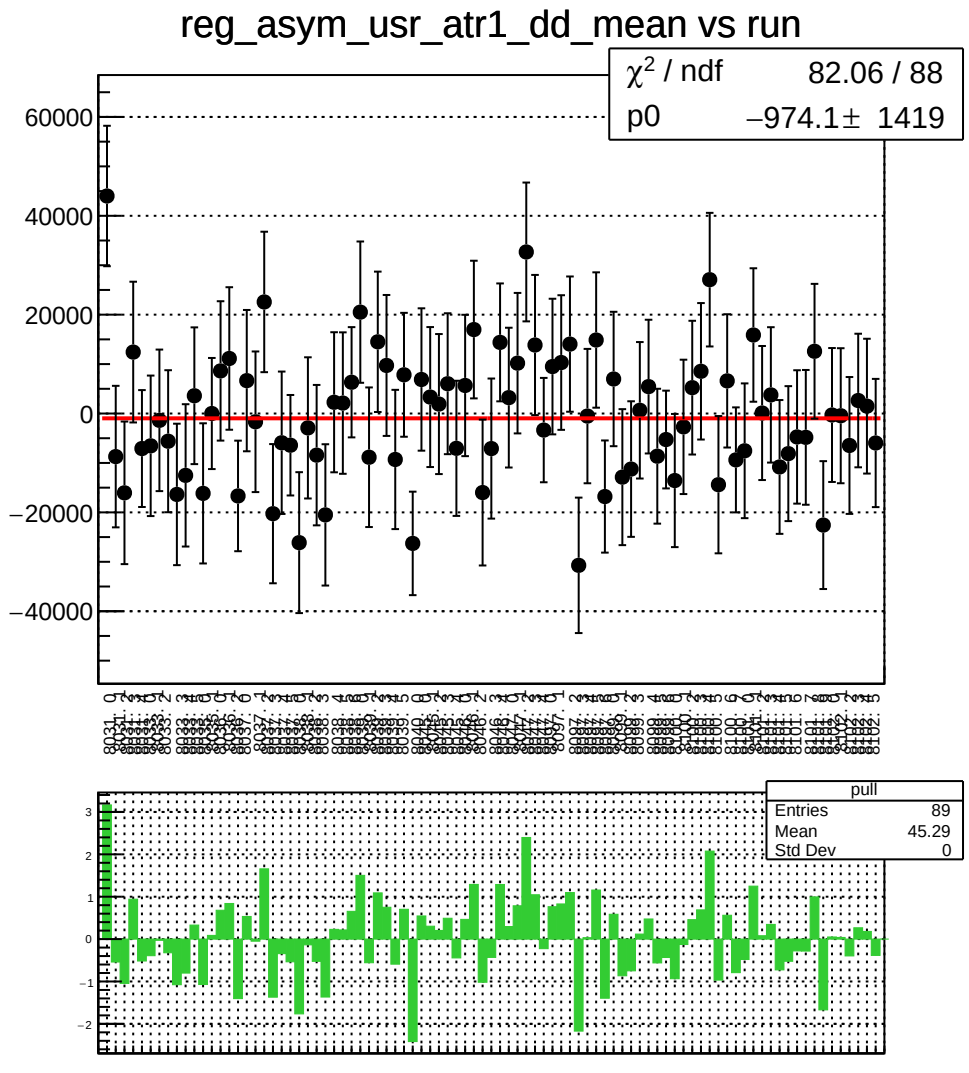

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.3 / 88
p0 0.002011 ± 0.06498
pull
Entries 89
Mean 36.41
Std Dev 0
pull1D
Entries 89
Mean −0.02045
Std Dev 0.9318

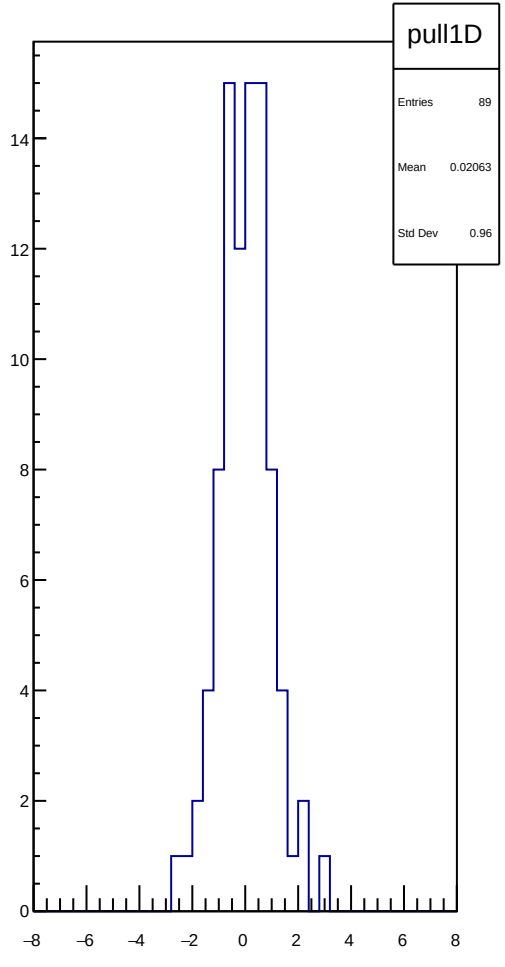

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.837e+05 / 88
p0 49.57 ± 0.04595
400
350
300
250
200
150
100
50

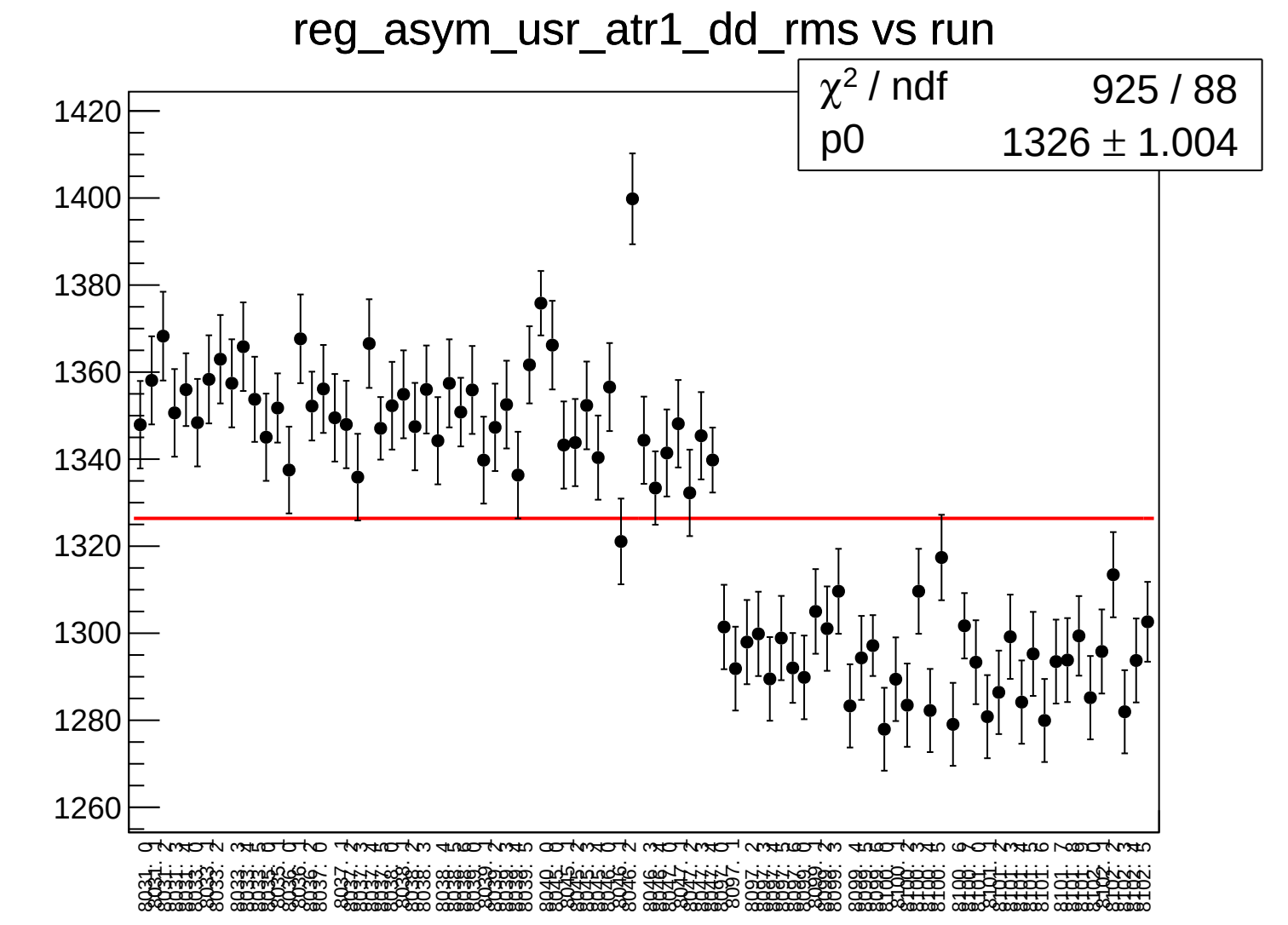

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.86 / 88
p0 7.854e−15 ± 1.024e−13
pull
Entries 89
Mean 94.16
Std Dev 45.82

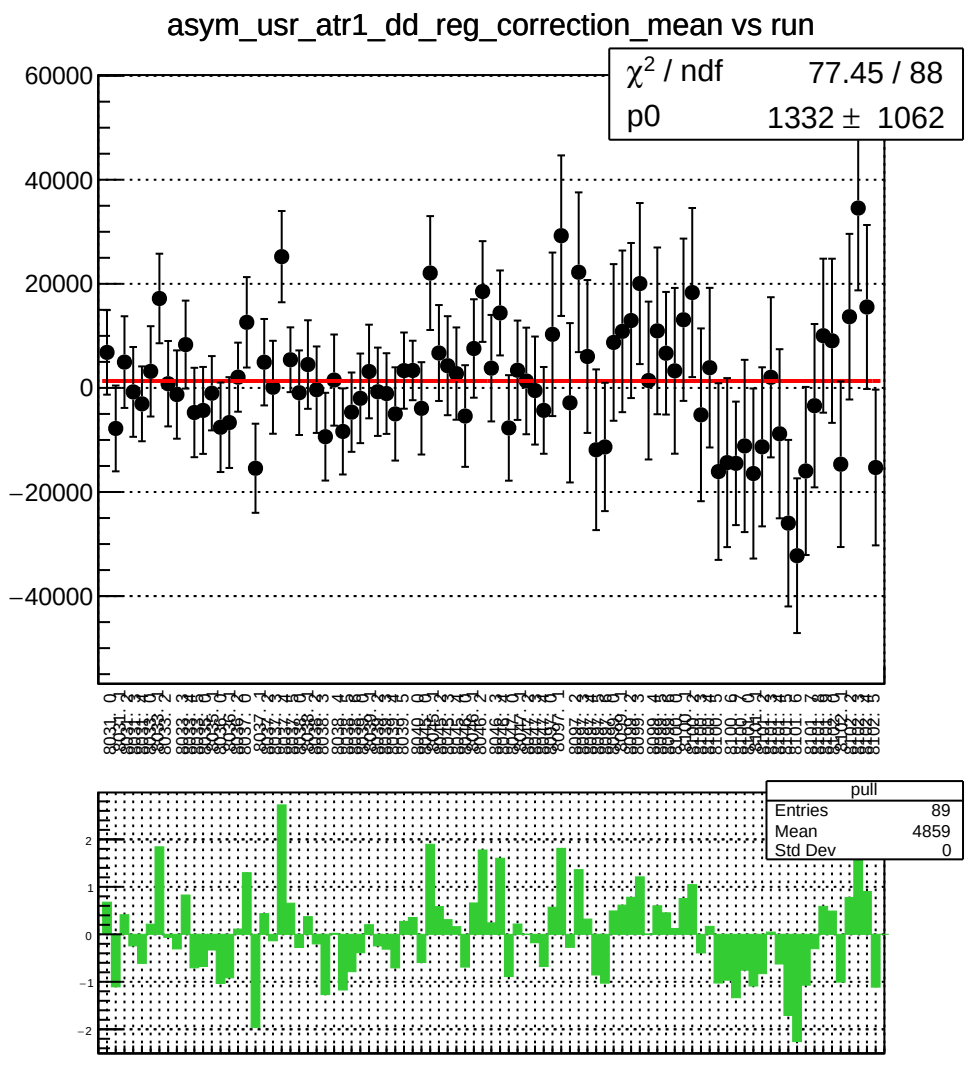

pull1D
Entries 89
Mean 0.0363
Std Dev 0.9872

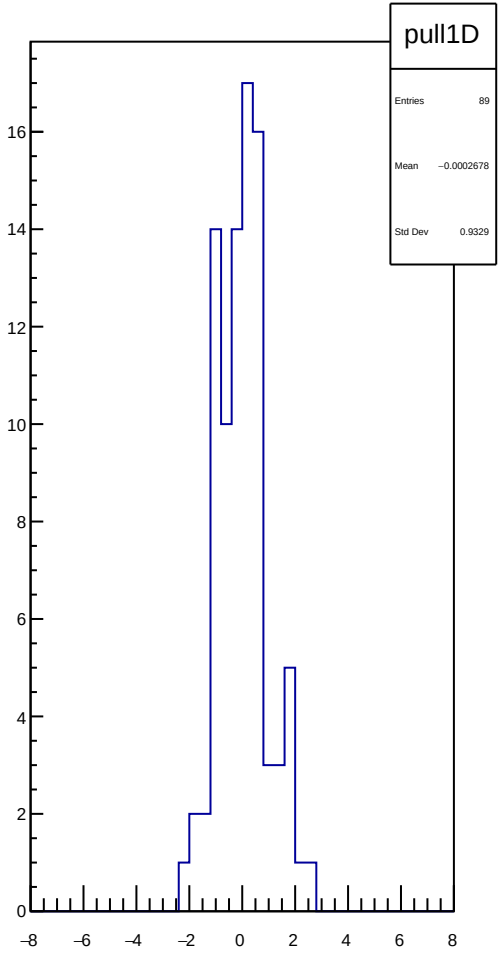

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.453e+05 / 88
p0 7.598e−11 ± 7.237e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

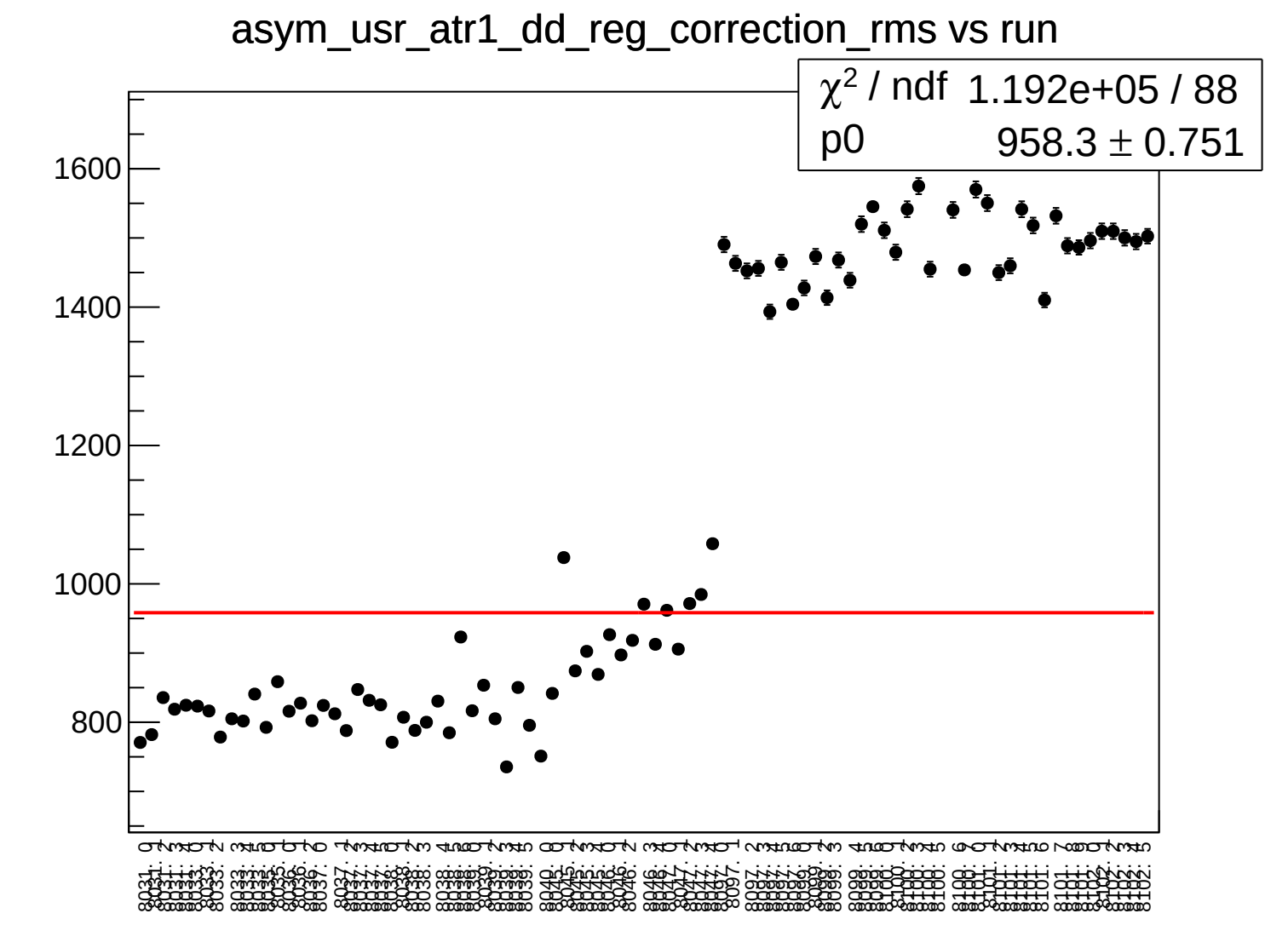

reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 82.06 / 88
p0 −974.1± 1419
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 45.29
Std Dev 0
3
2
1
0
−1
−2

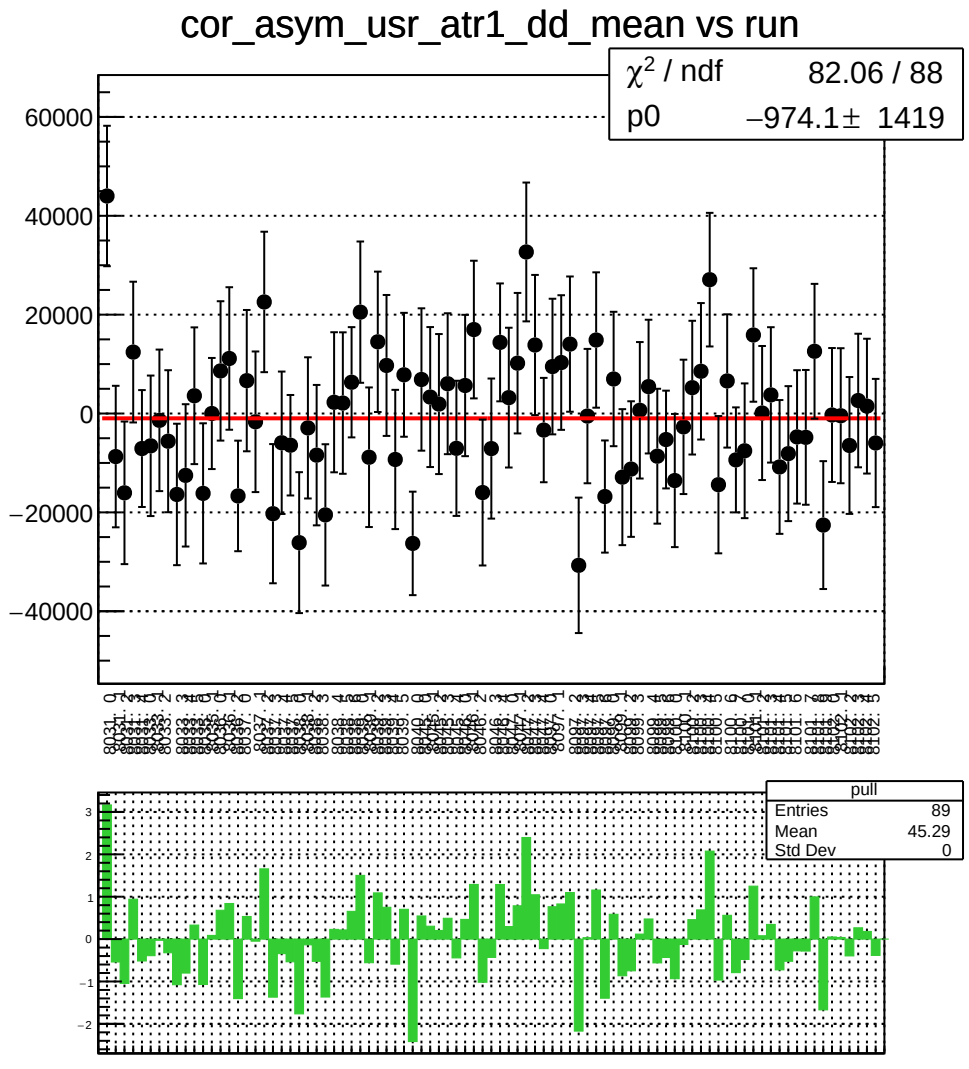

pull1D
Entries 89
Mean 0.02063
Std Dev 0.96
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

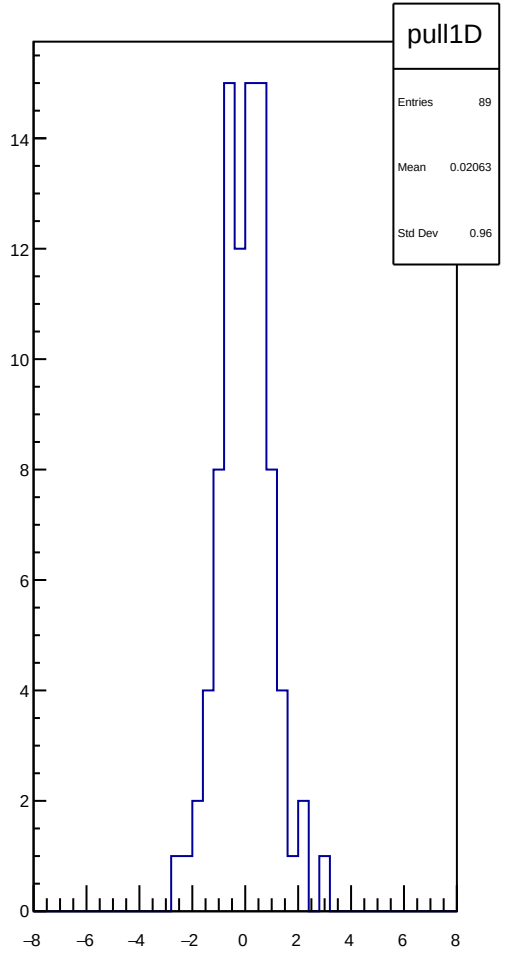

reg_asym_usr_atr1_dd_rms vs run
χ² / ndf 925 / 88
p0 1326 ± 1.004
1420
1400
1380
1360
1340
1320
1300
1280
1260

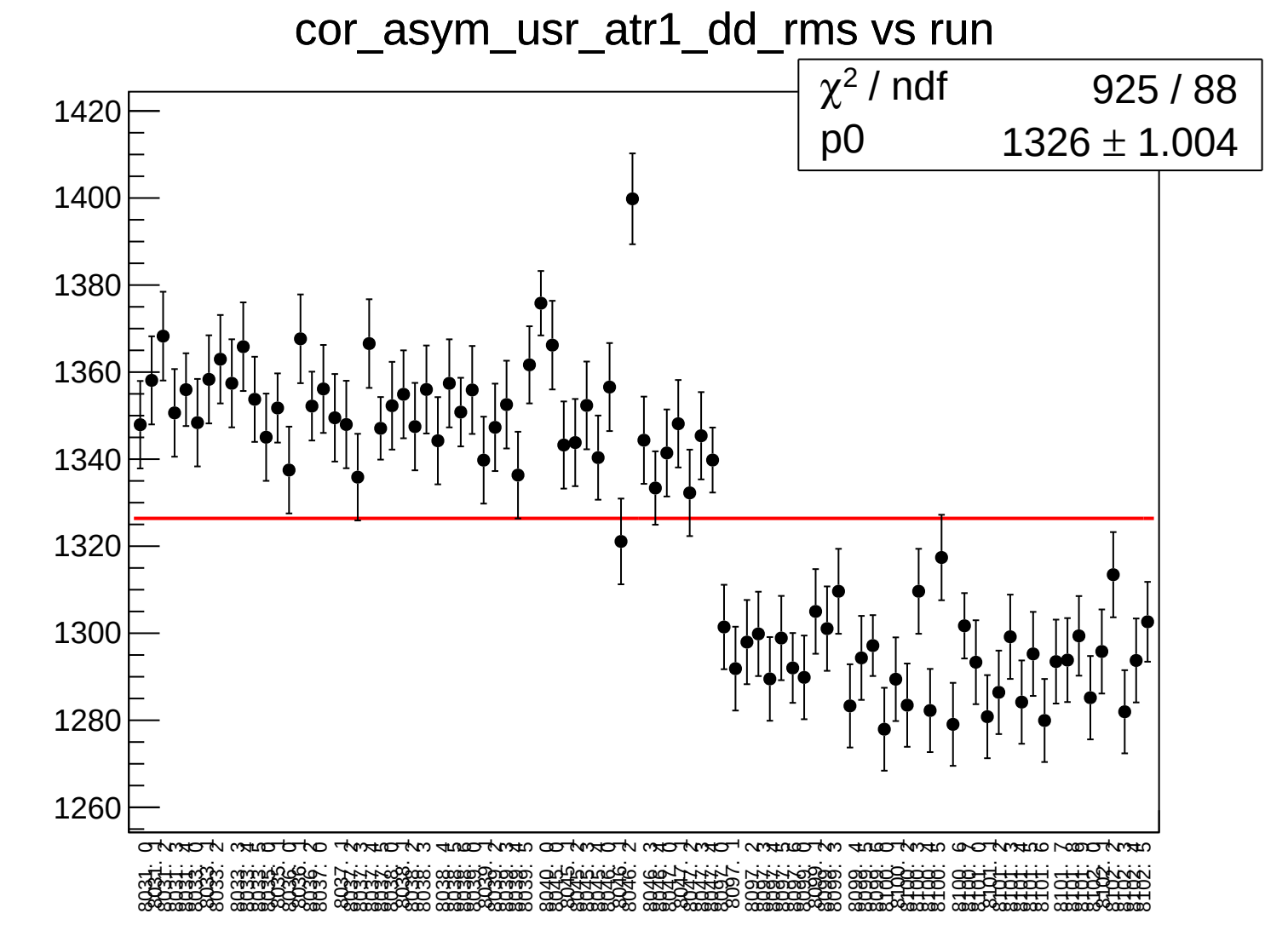

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 77.45 / 88
p0 1332 ± 1062
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 4859
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 89
Mean −0.0002678
Std Dev 0.9329
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 1.192e+05 / 88
p0 958.3 ± 0.751
1600
1400
1200
1000
800


cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 82.06 / 88
p0 −974.1± 1419
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 45.29
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 89
Mean 0.02063
Std Dev 0.96
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 925 / 88
p0 1326 ± 1.004
1420
1400
1380
1360
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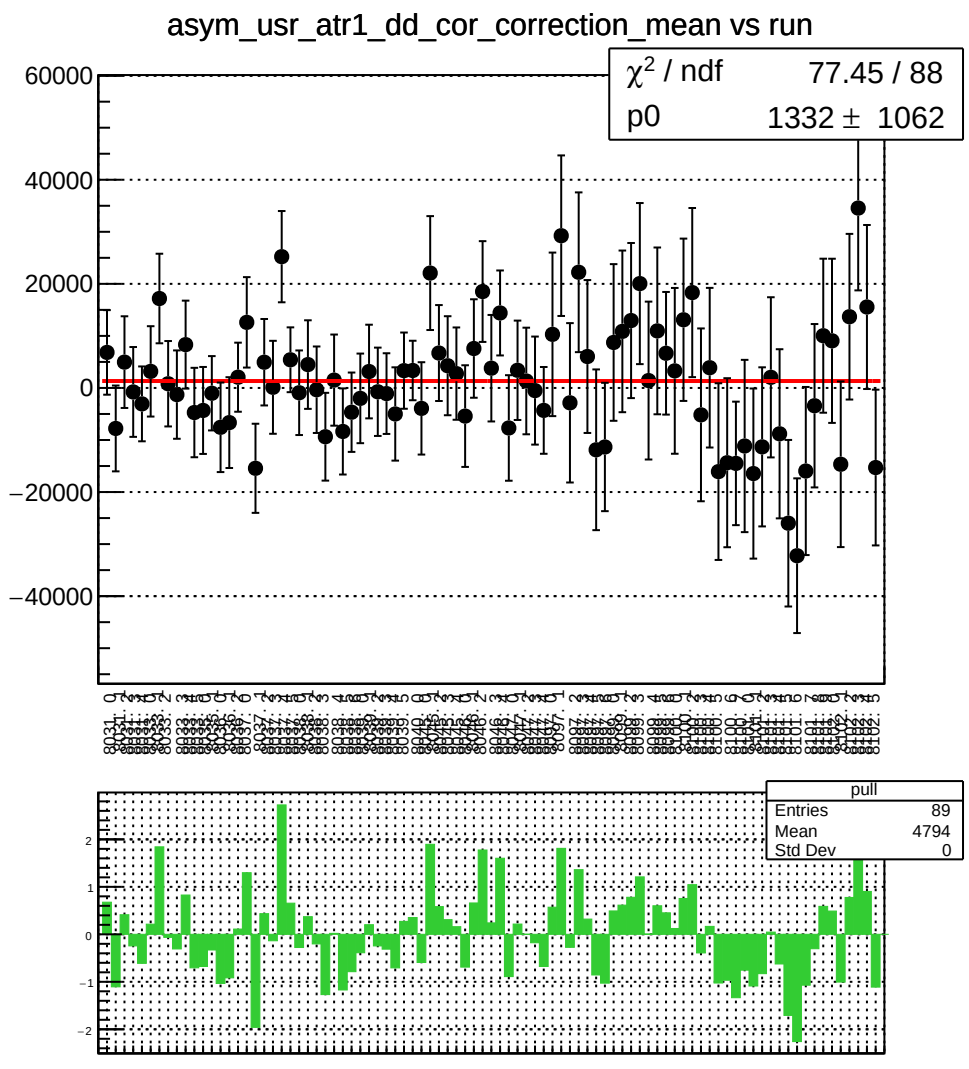
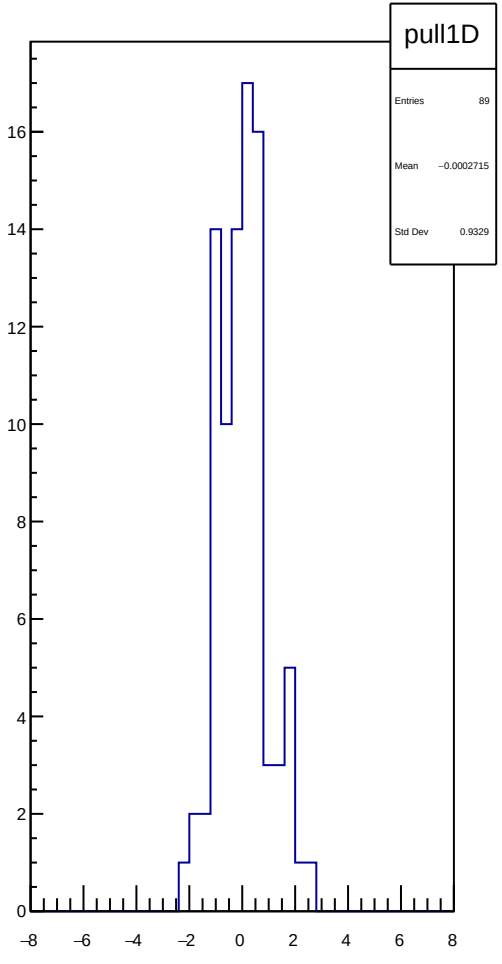
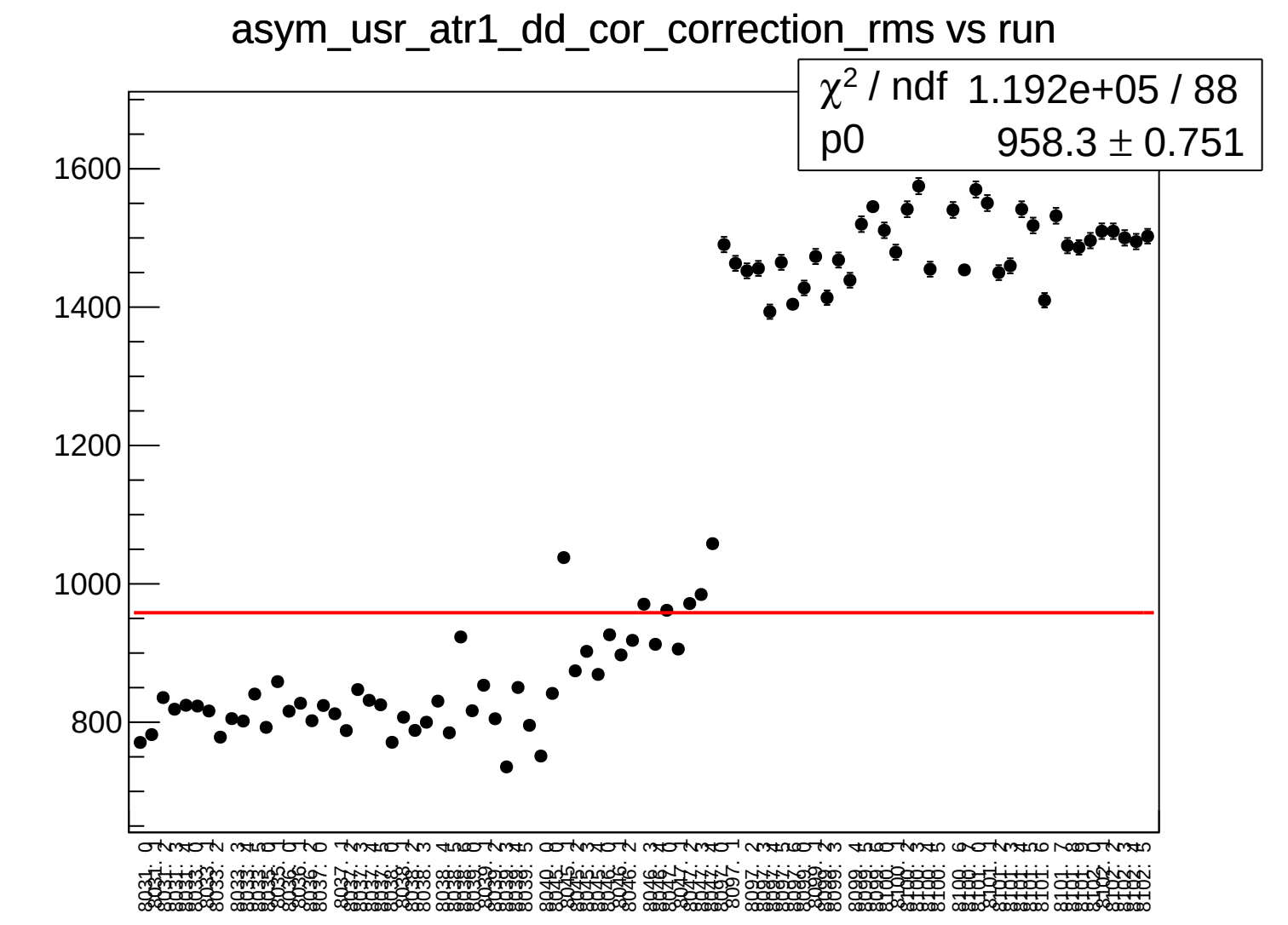
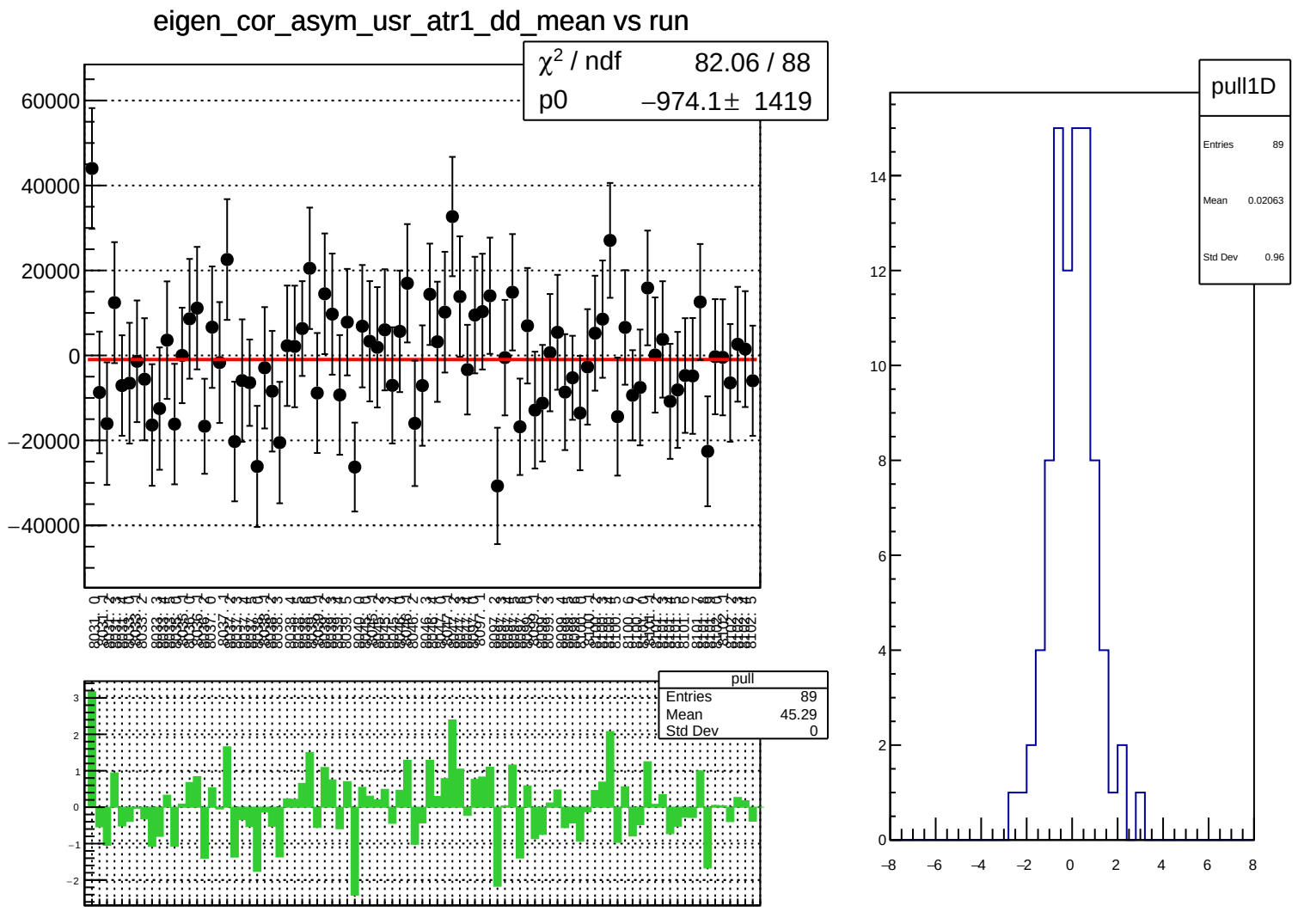
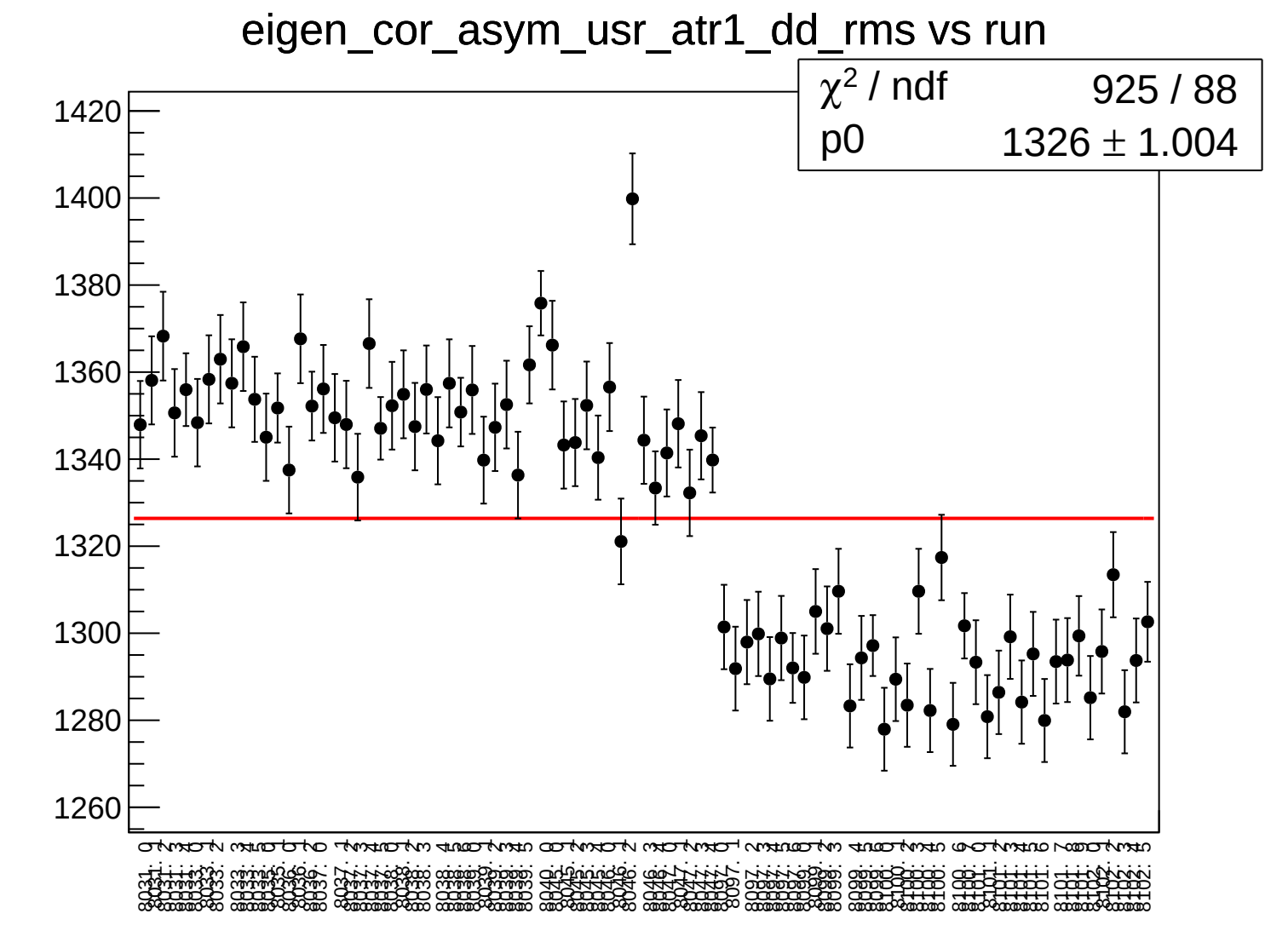
1320
1300
1280
1260

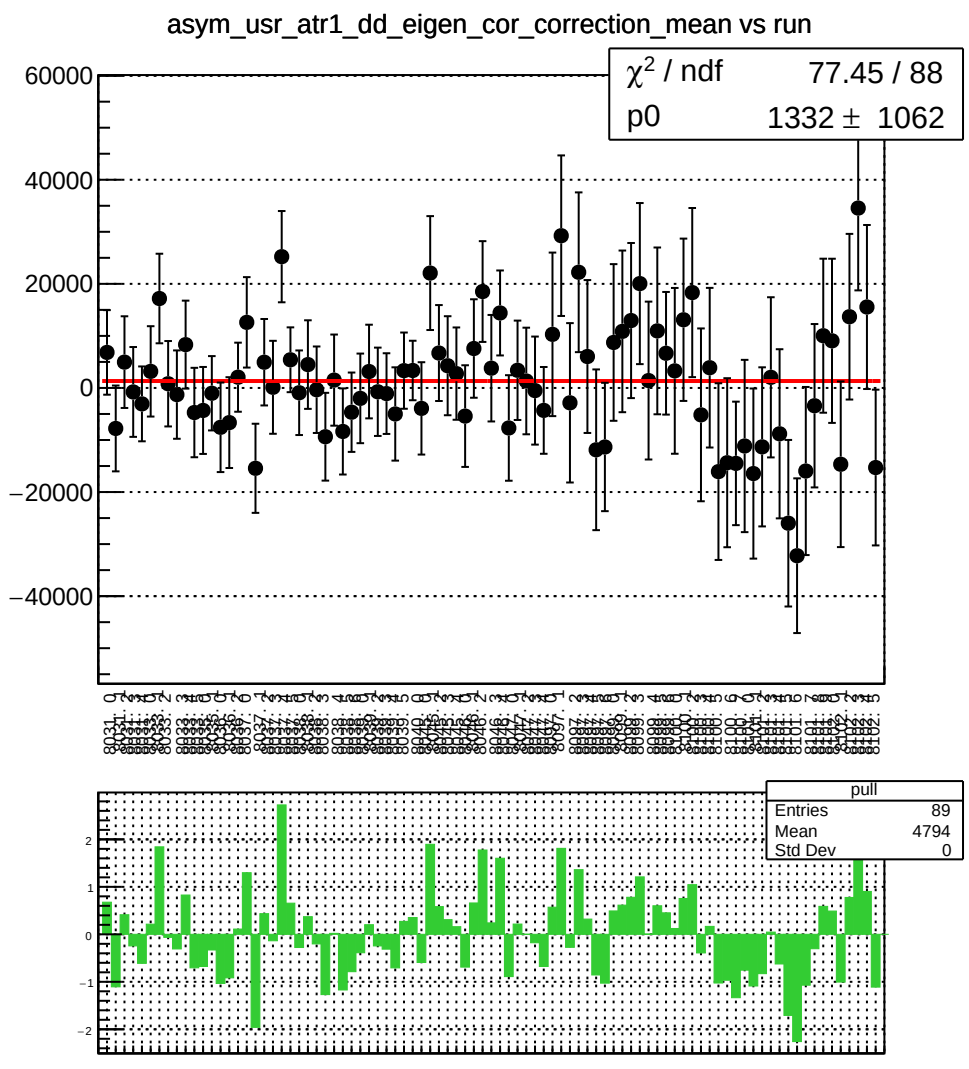

asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 77.45 / 88
p0 1332 ± 1062
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 4794
Std Dev 0
2
1
0
−1
−2

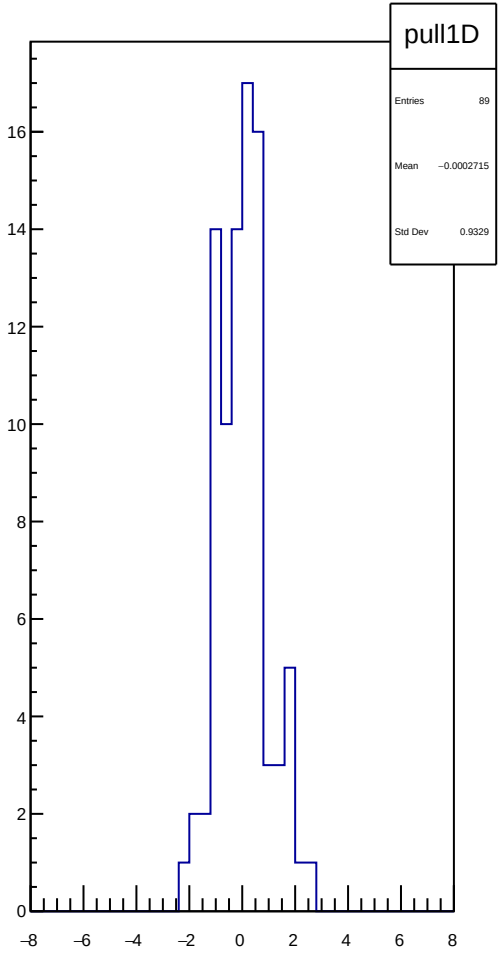

pull1D
Entries 89
Mean −0.0002715
Std Dev 0.9329
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

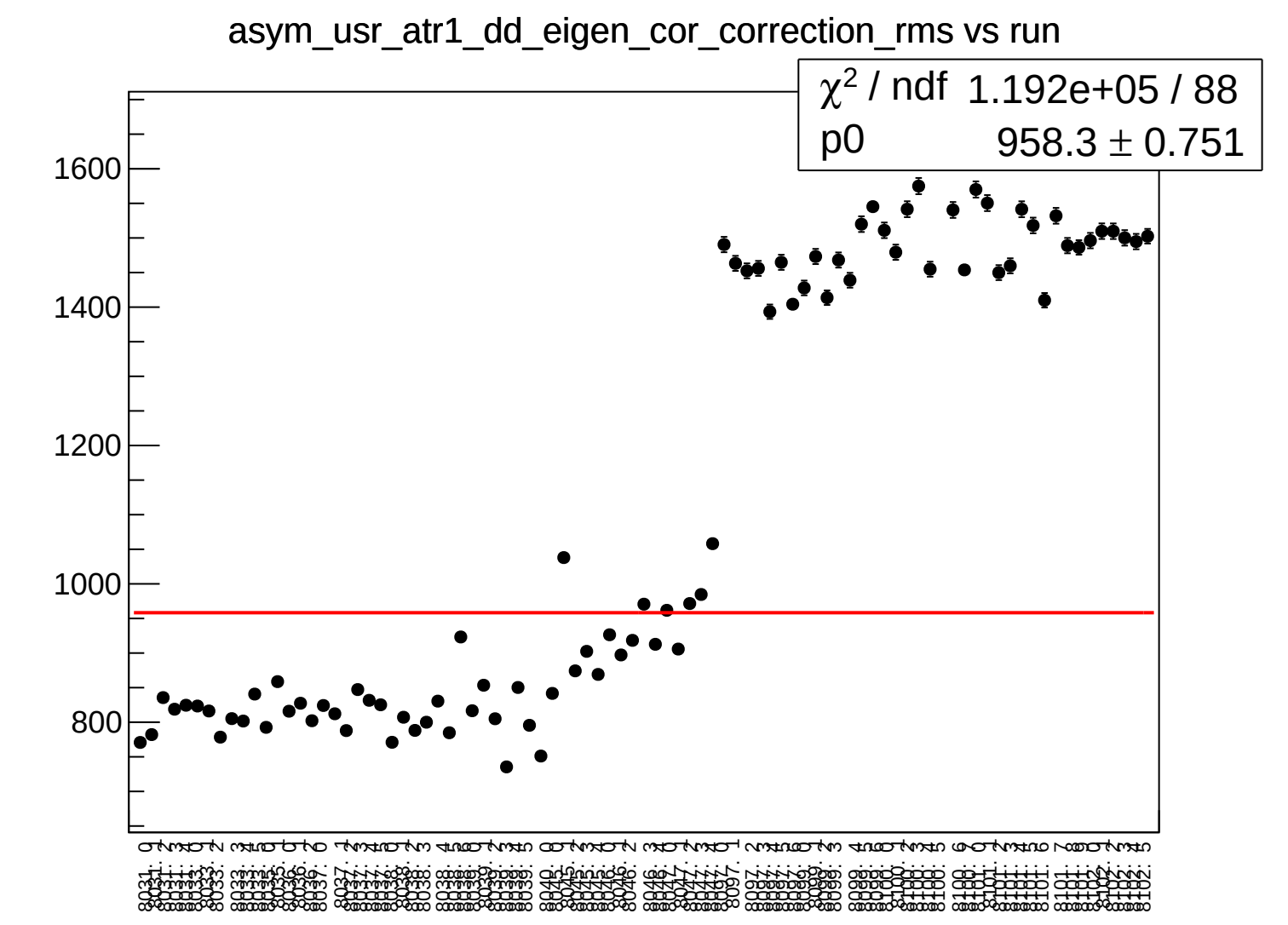

asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 1.192e+05 / 88
p0 958.3 ± 0.751
1600
1400
1200
1000
800

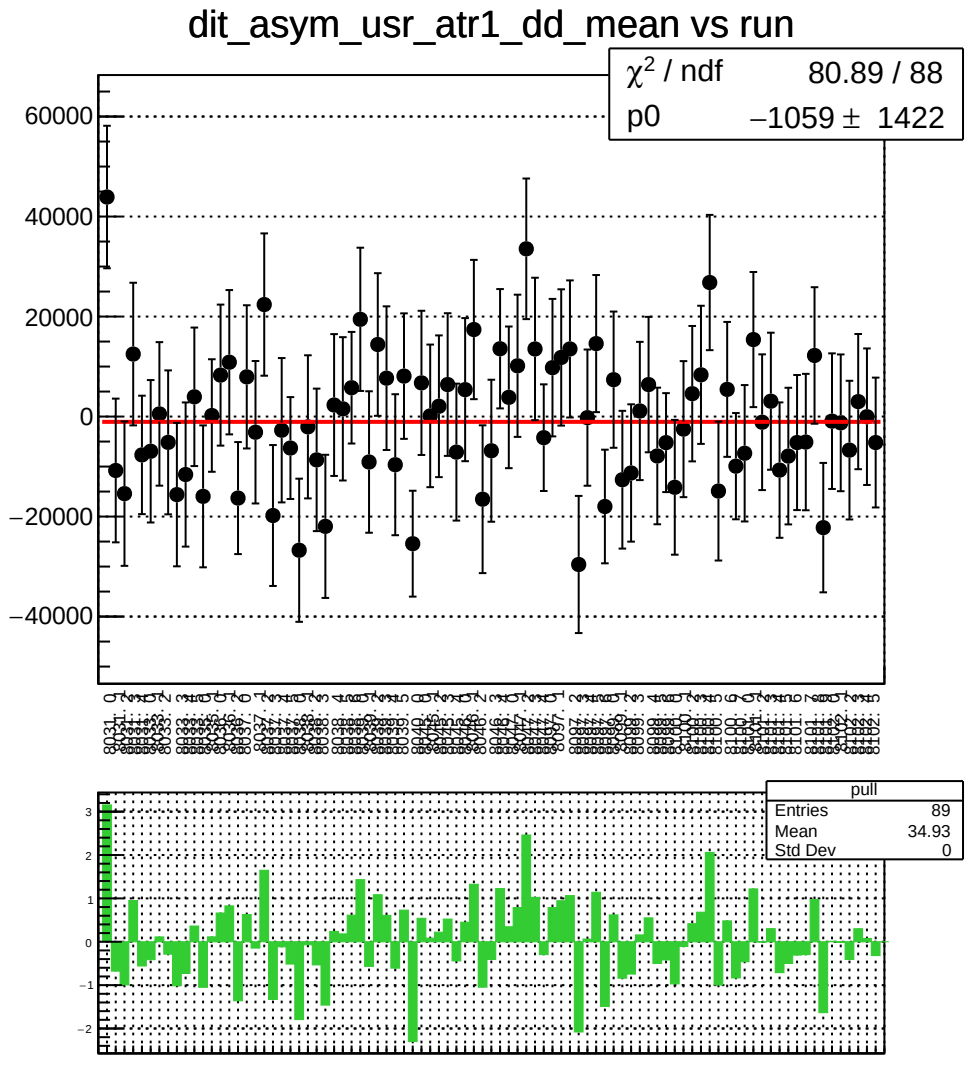

eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 82.06 / 88
p0 −974.1± 1419
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 45.29
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.02063
Std Dev 0.96
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

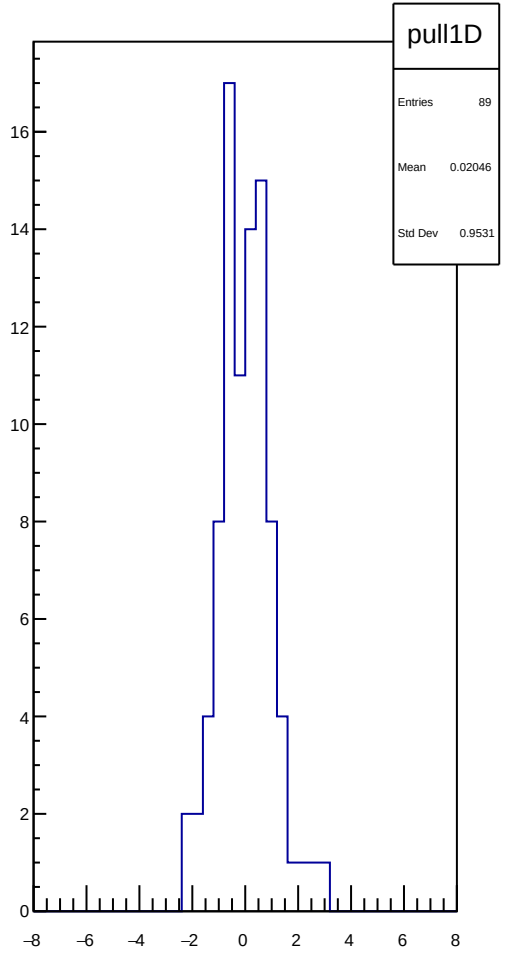

eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 925 / 88
p0 1326 ± 1.004
1420
1400
1380
1360
1340
1320
1300
1280
1260

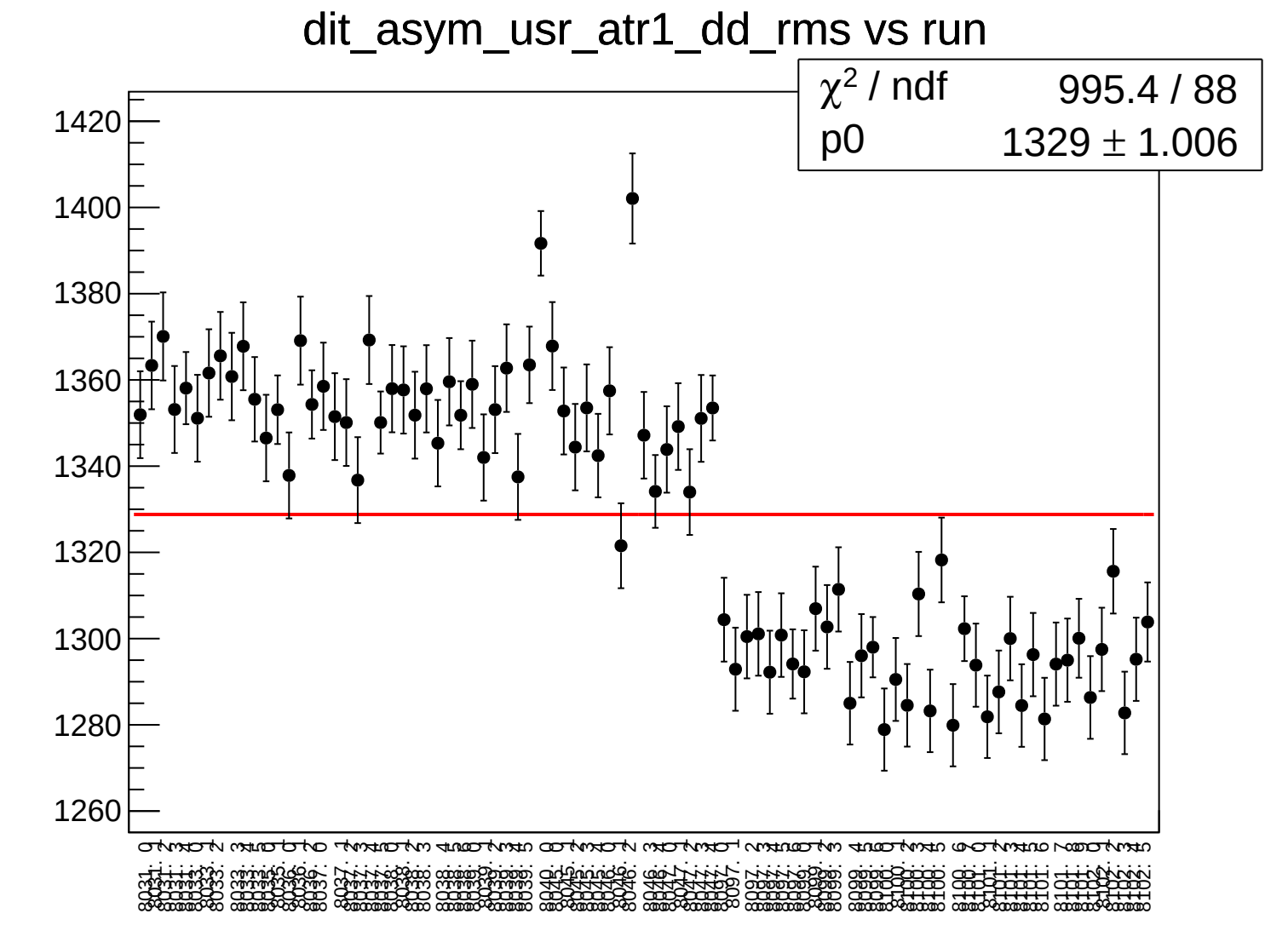

asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 77.45 / 88
p0 1332 ± 1062
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 4794
Std Dev 0
2
1
0
−1
−2

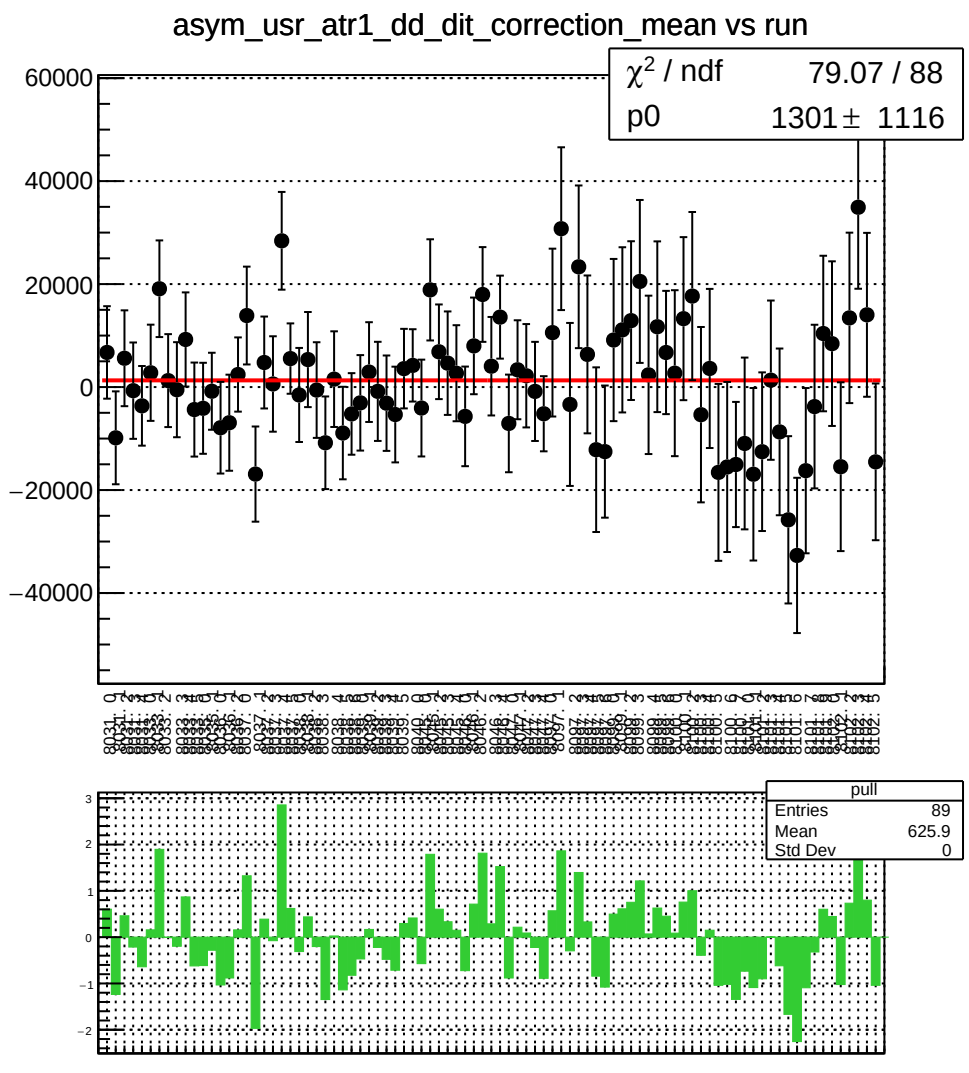

pull1D
Entries 89
Mean −0.0002715
Std Dev 0.9329
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

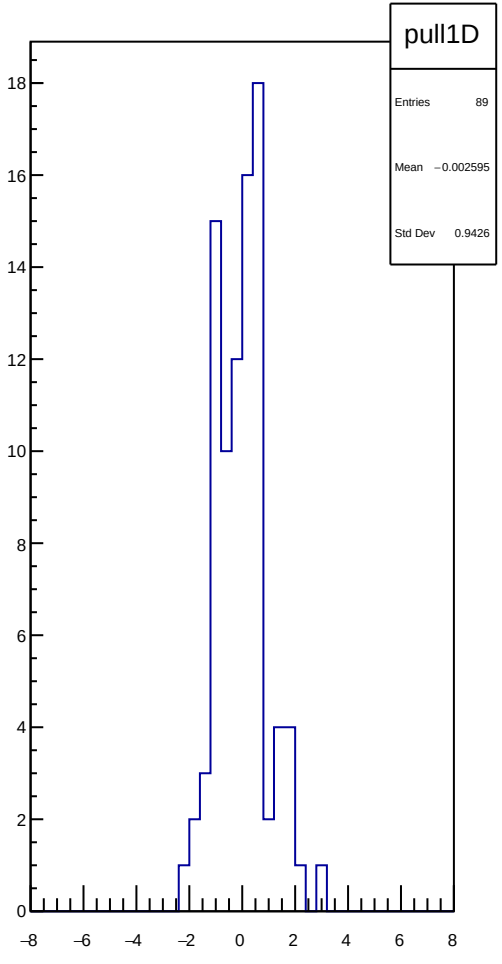

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.192e+05 / 88
p0 958.3 ± 0.751
1600
1400
1200
1000
800

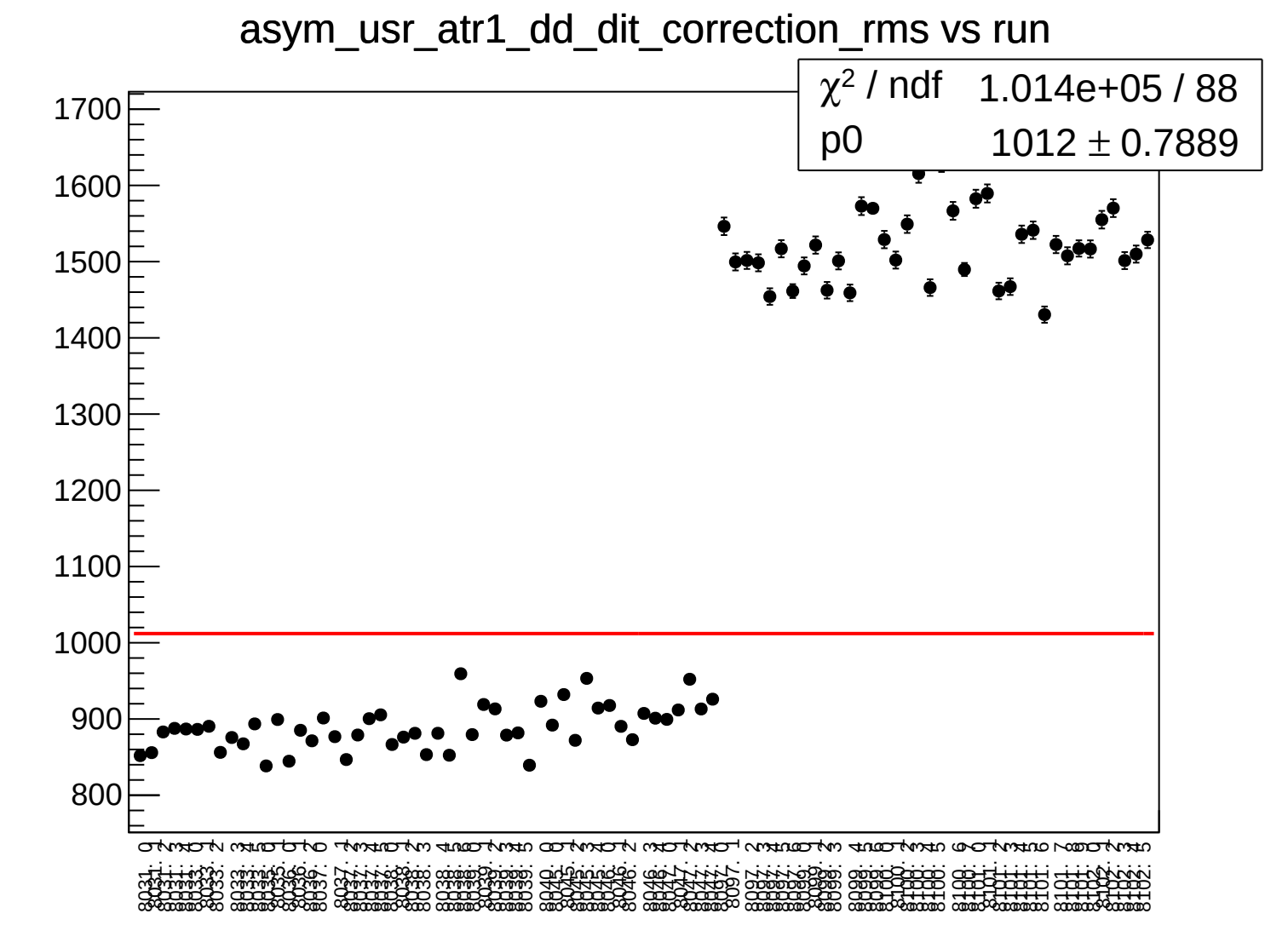

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 80.89 / 88
p0 −1059 ± 1422
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 34.93
Std Dev 0
3
2
1
0
−1
−2

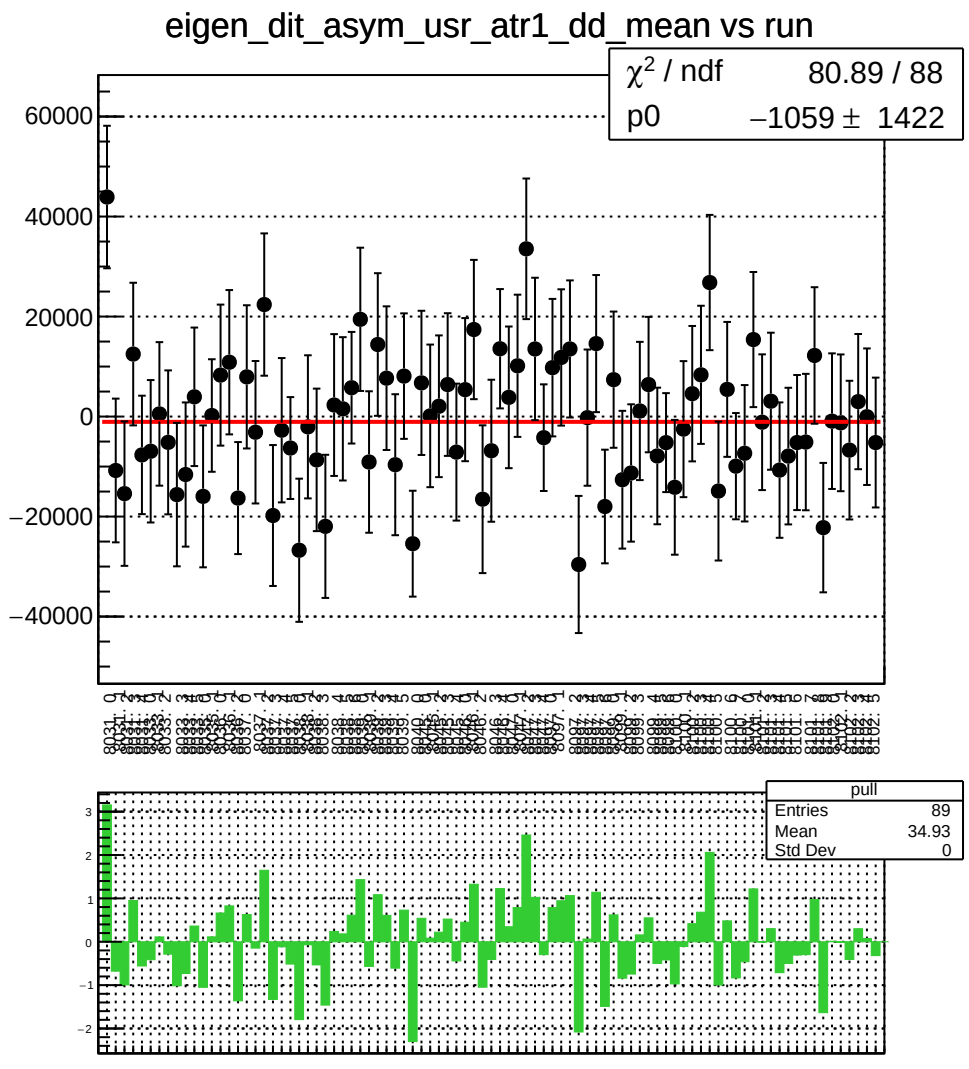

pull1D
Entries 89
Mean 0.02046
Std Dev 0.9531
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

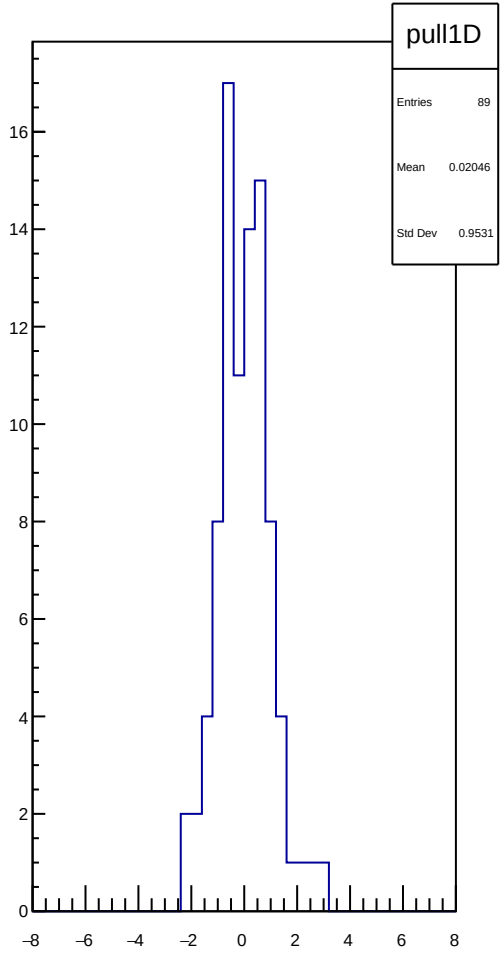

dit_asym_usr_atr1_dd_rms vs run
$\chi^2$ / ndf 995.4 / 88
p0 1329 ± 1.006
1420
1400
1380
1360
1340
1320
1300
1280
1260

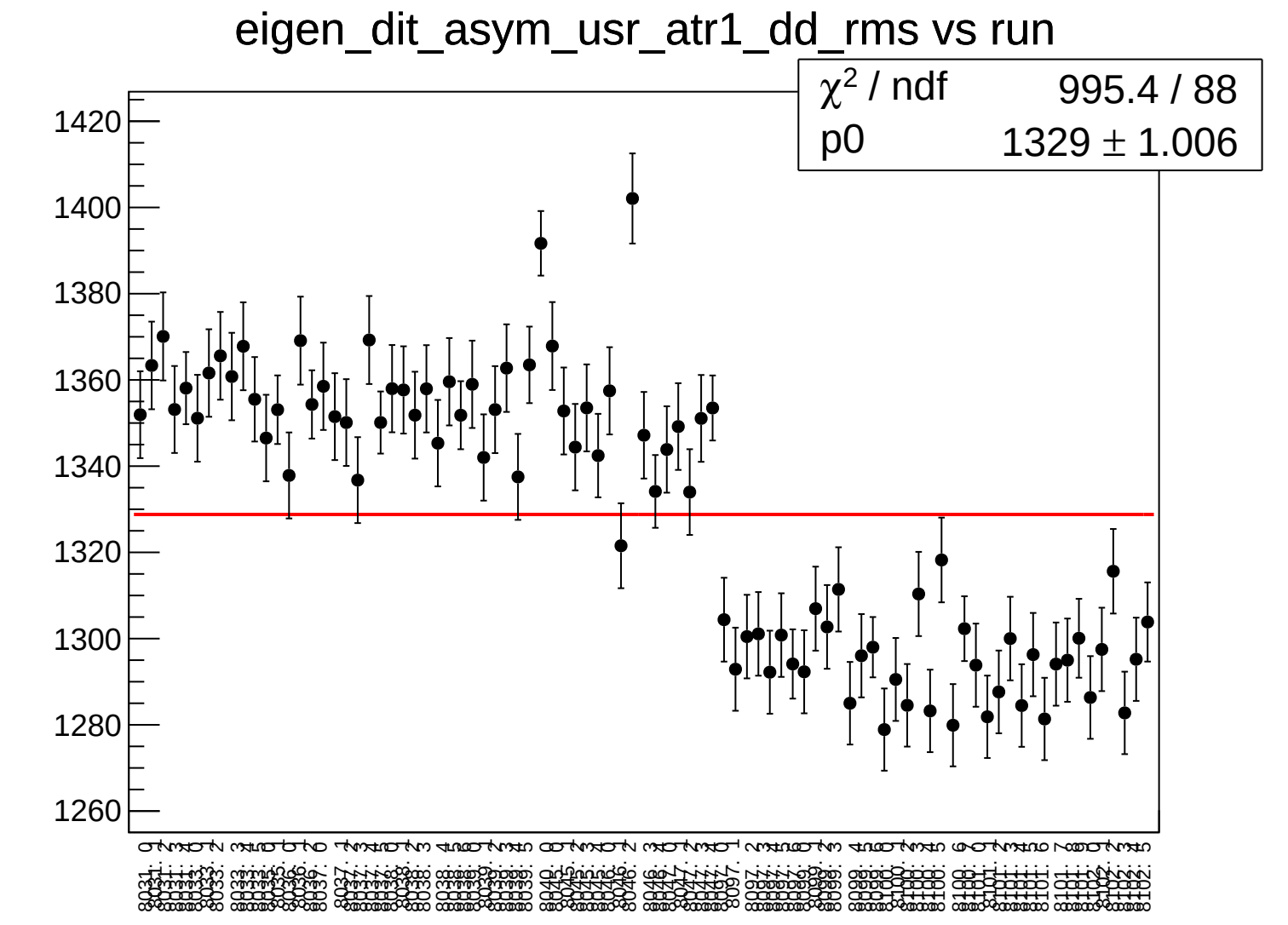

asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 79.07 / 88
p0 1301 ± 1116
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 625.9
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 89
Mean −0.002595
Std Dev 0.9426
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 1.014e+05 / 88
p0 1012 ± 0.7889
1700
1600
1500
1400
1300
1200
1100
1000
900
800


eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 80.89 / 88
p0 −1059 ± 1422
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 34.93
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 89
Mean 0.02046
Std Dev 0.9531
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 995.4 / 88
p0 1329 ± 1.006
1420
1400
1380
1360
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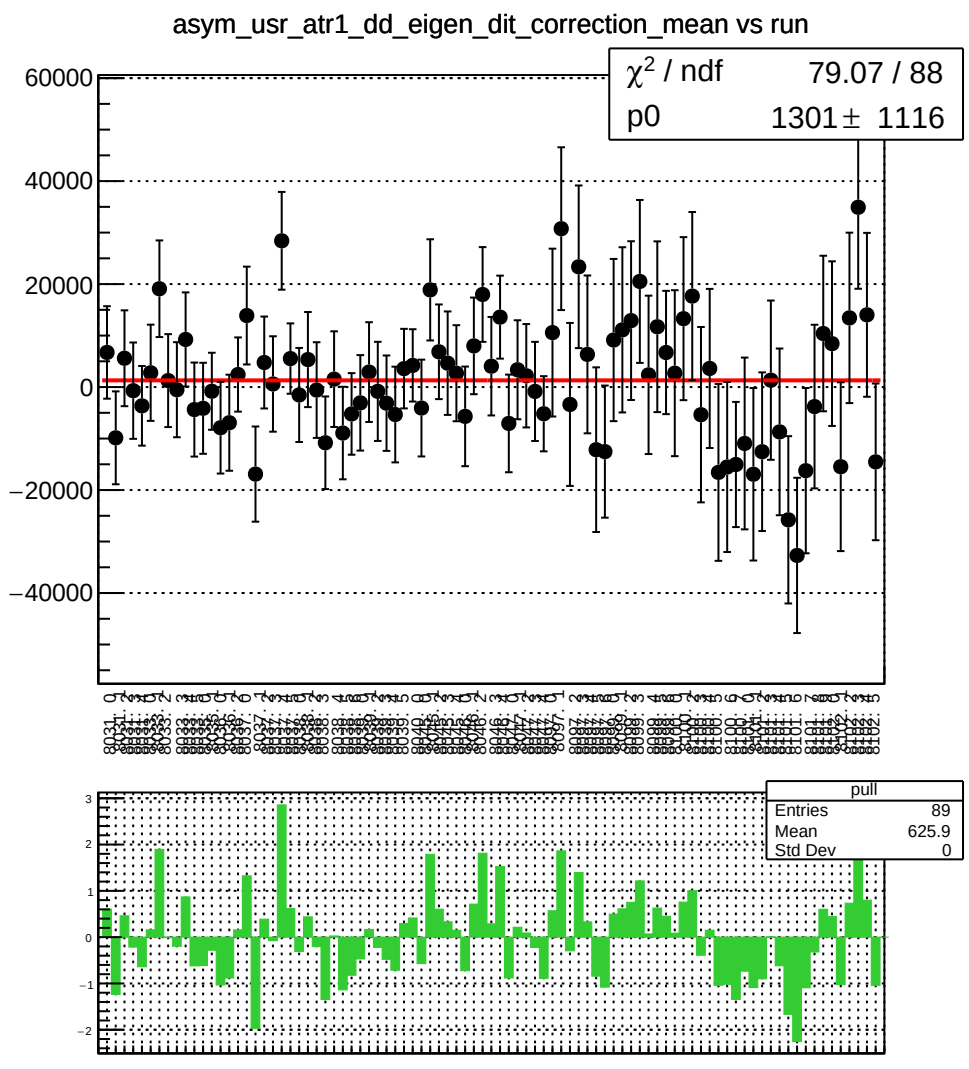
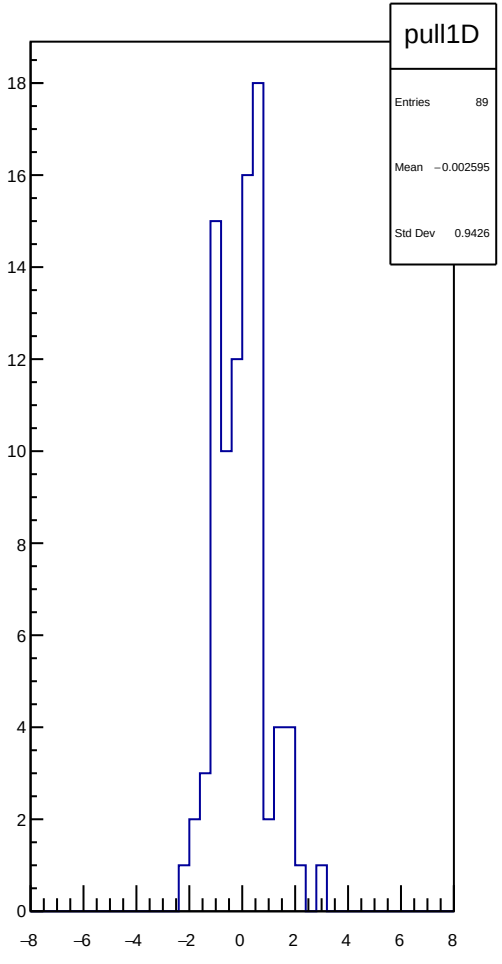
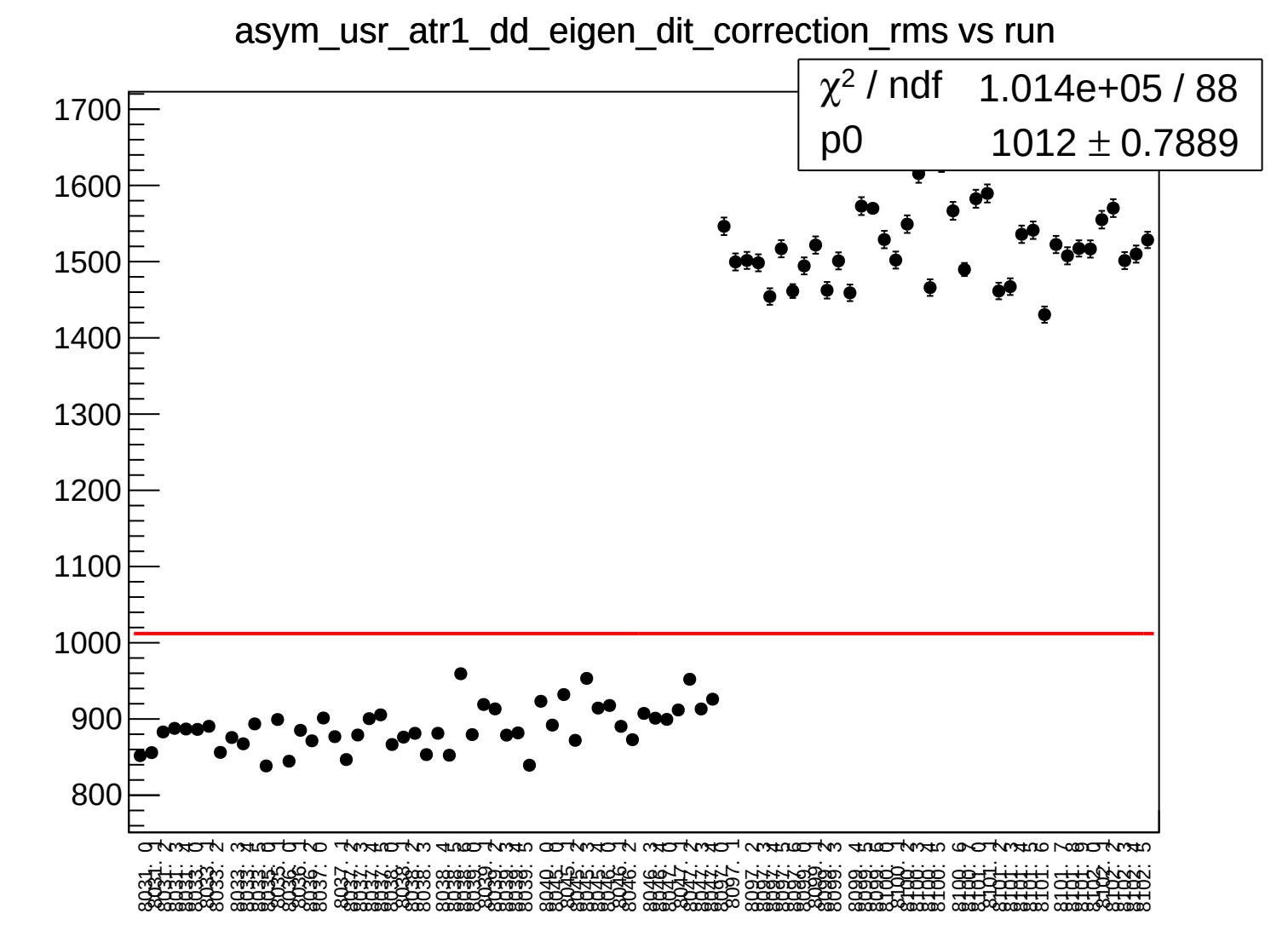
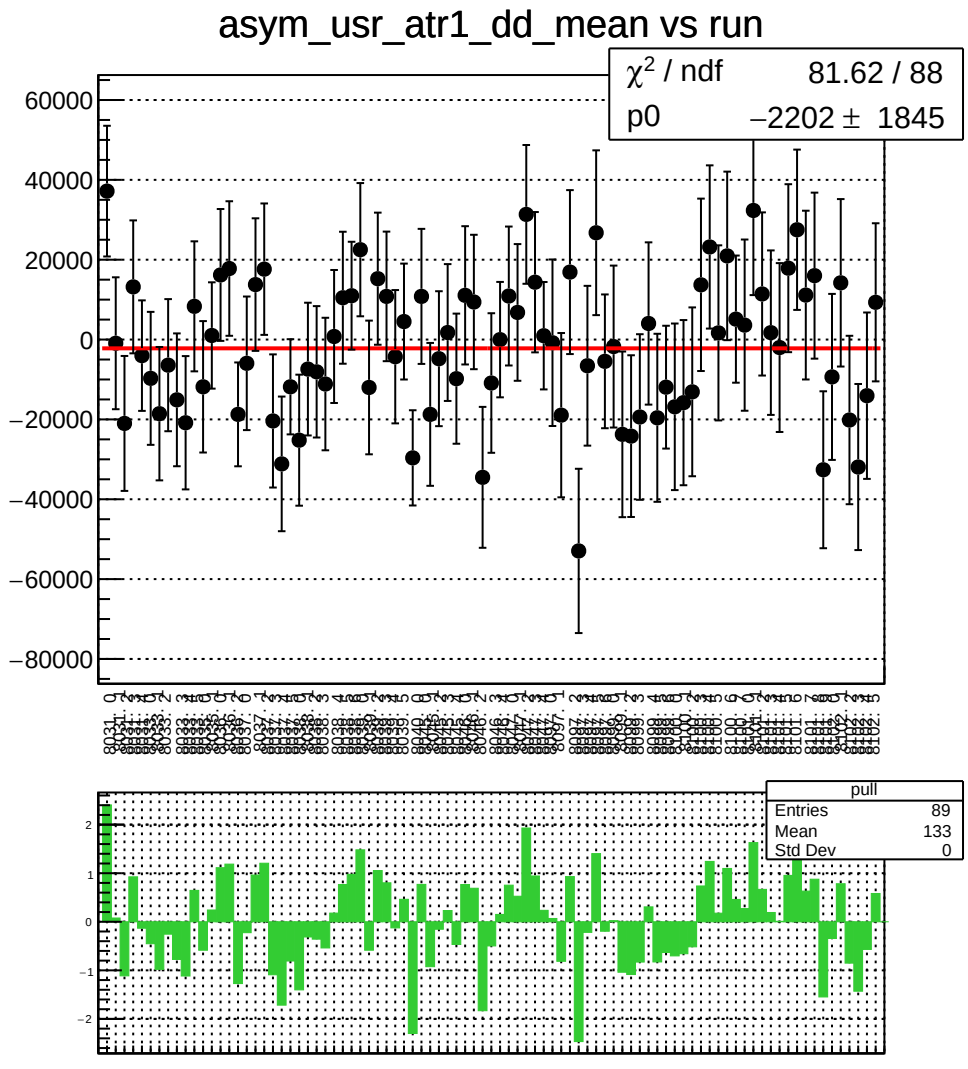
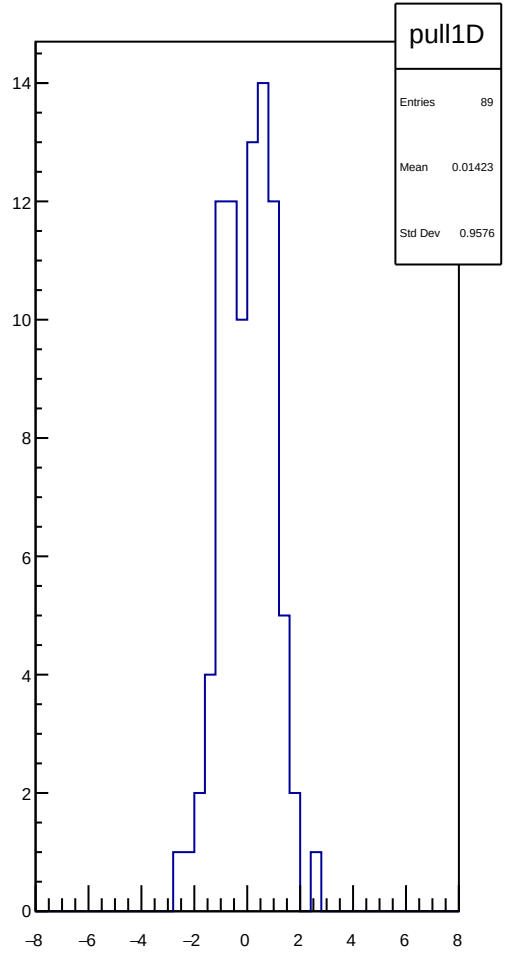
1300
1280
1260

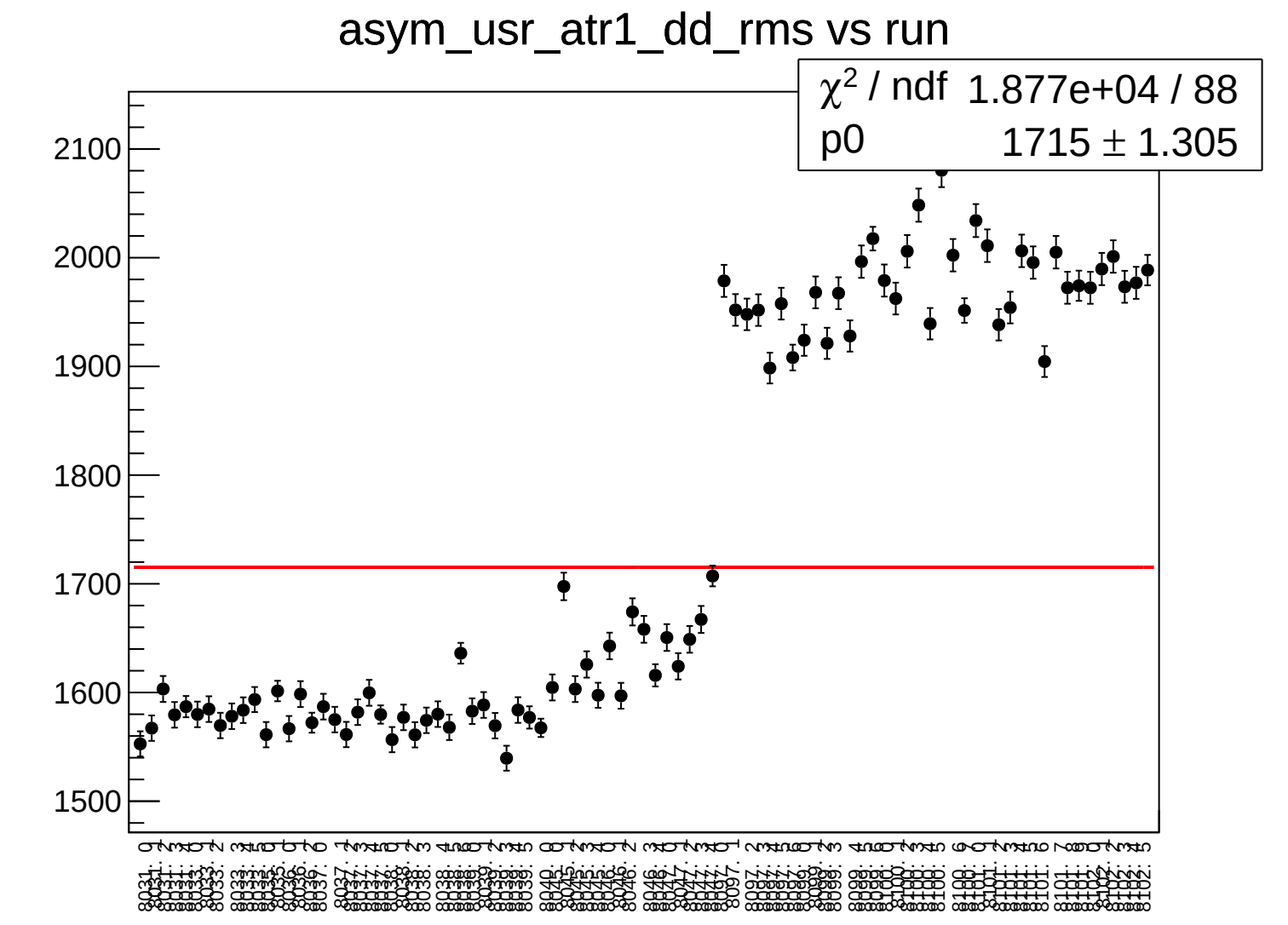

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 79.07 / 88
p0 1301 ± 1116
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 625.9
Std Dev 0
3
2
1
0
−1
−2

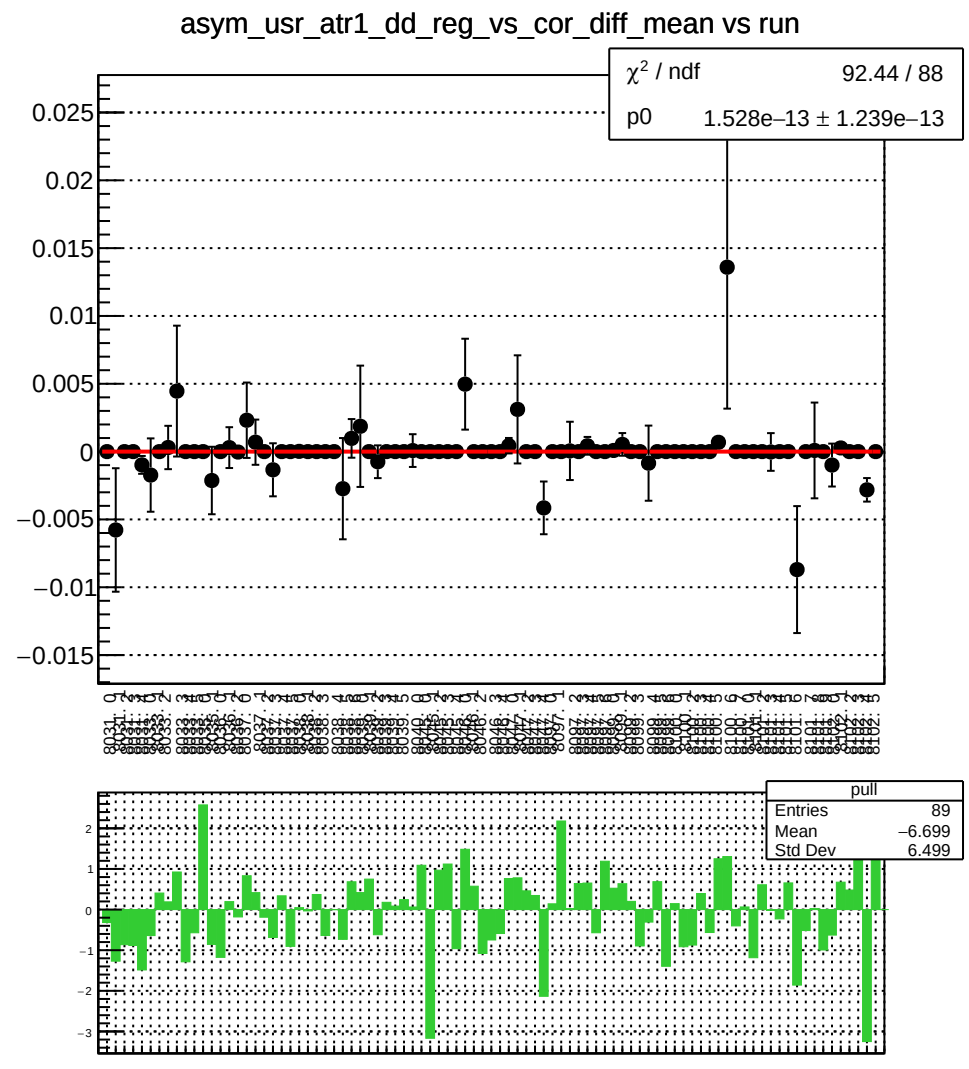

pull1D
Entries 89
Mean −0.002595
Std Dev 0.9426
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

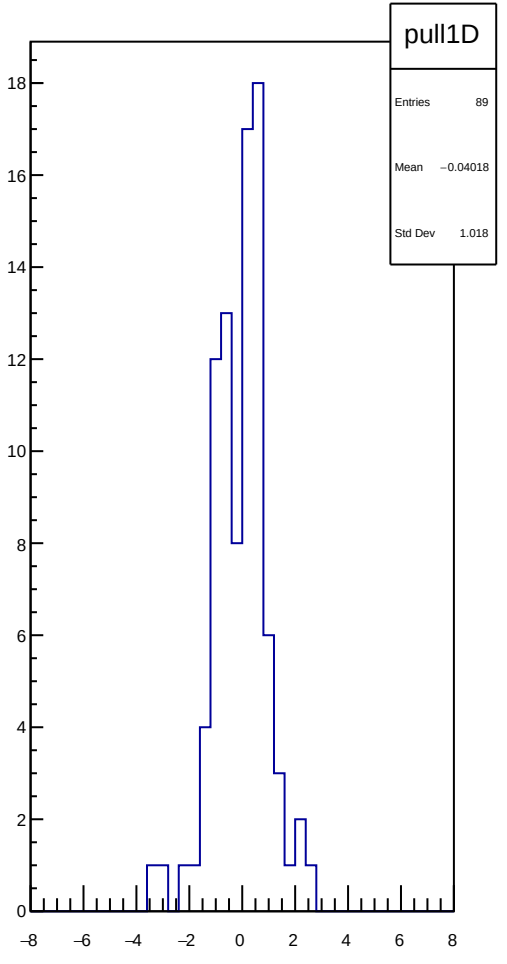

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.014e+05 / 88
p0 1012 ± 0.7889
1700
1600
1500
1400
1300
1200
1100
1000
900
800

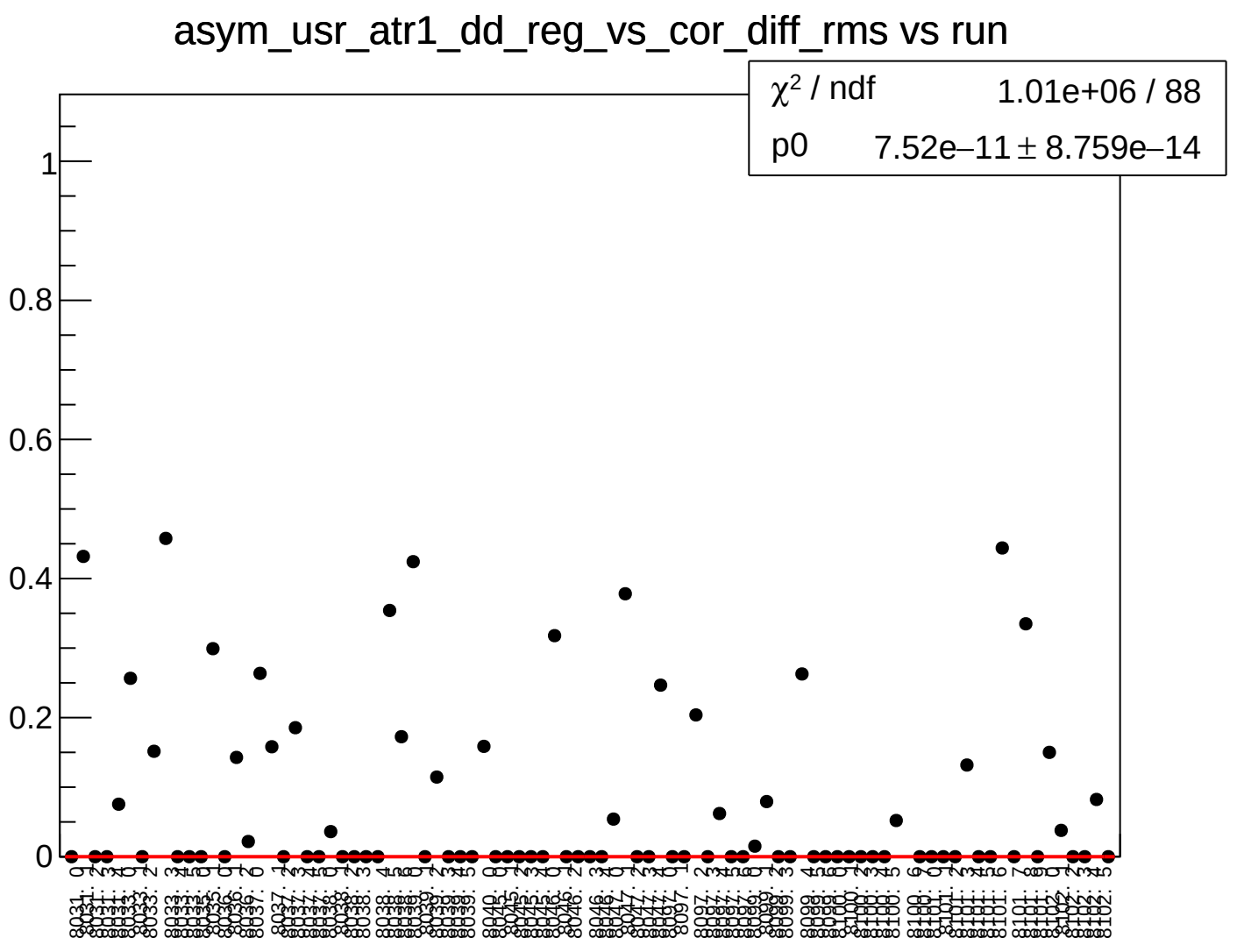

asym_usr_atr1_dd_mean vs run
χ² / ndf 81.62 / 88
p0 −2202 ± 1845
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 133
Std Dev 0
2
1
0
−1
−2

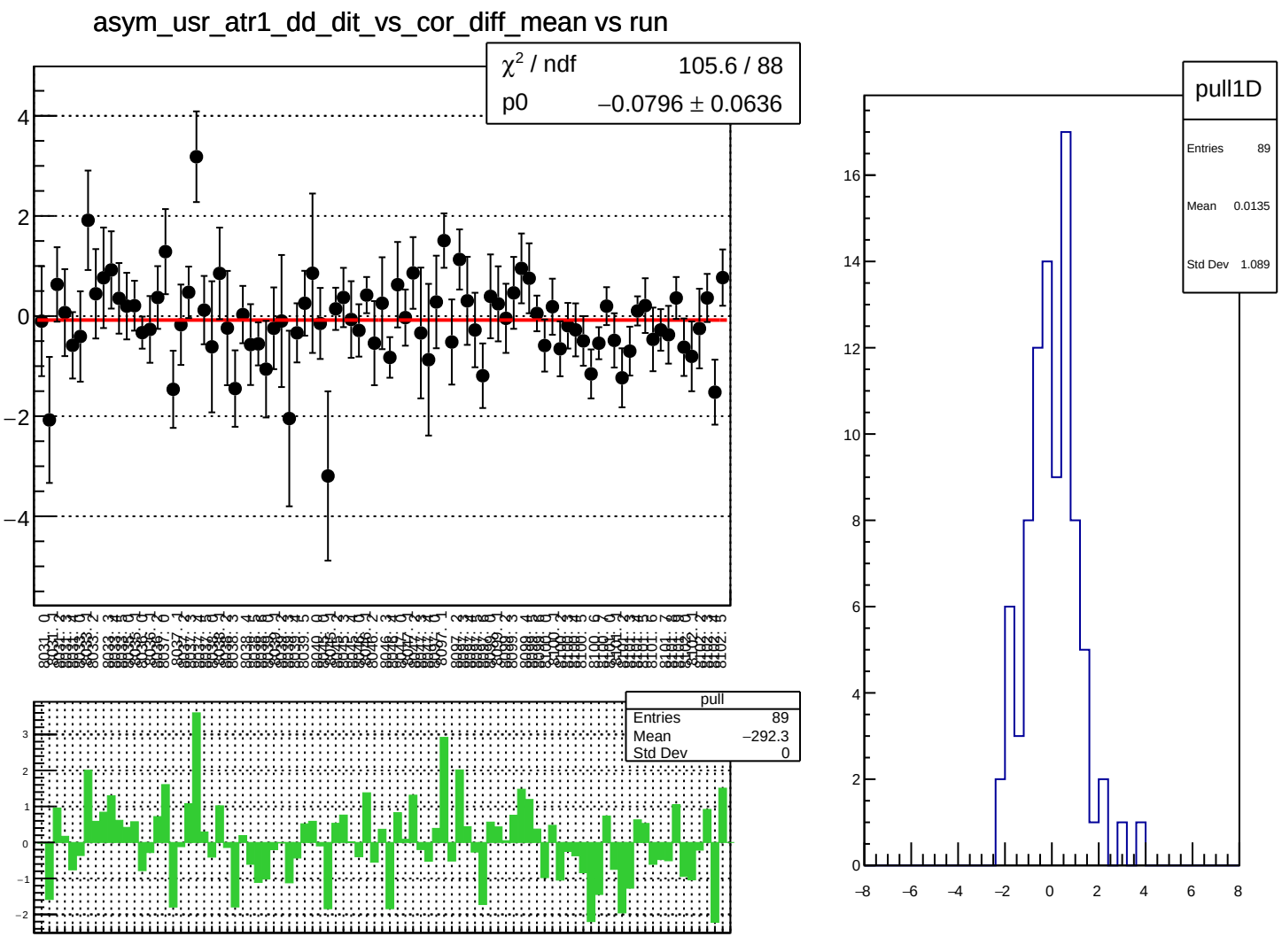

pull1D
Entries 89
Mean 0.01423
Std Dev 0.9576
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

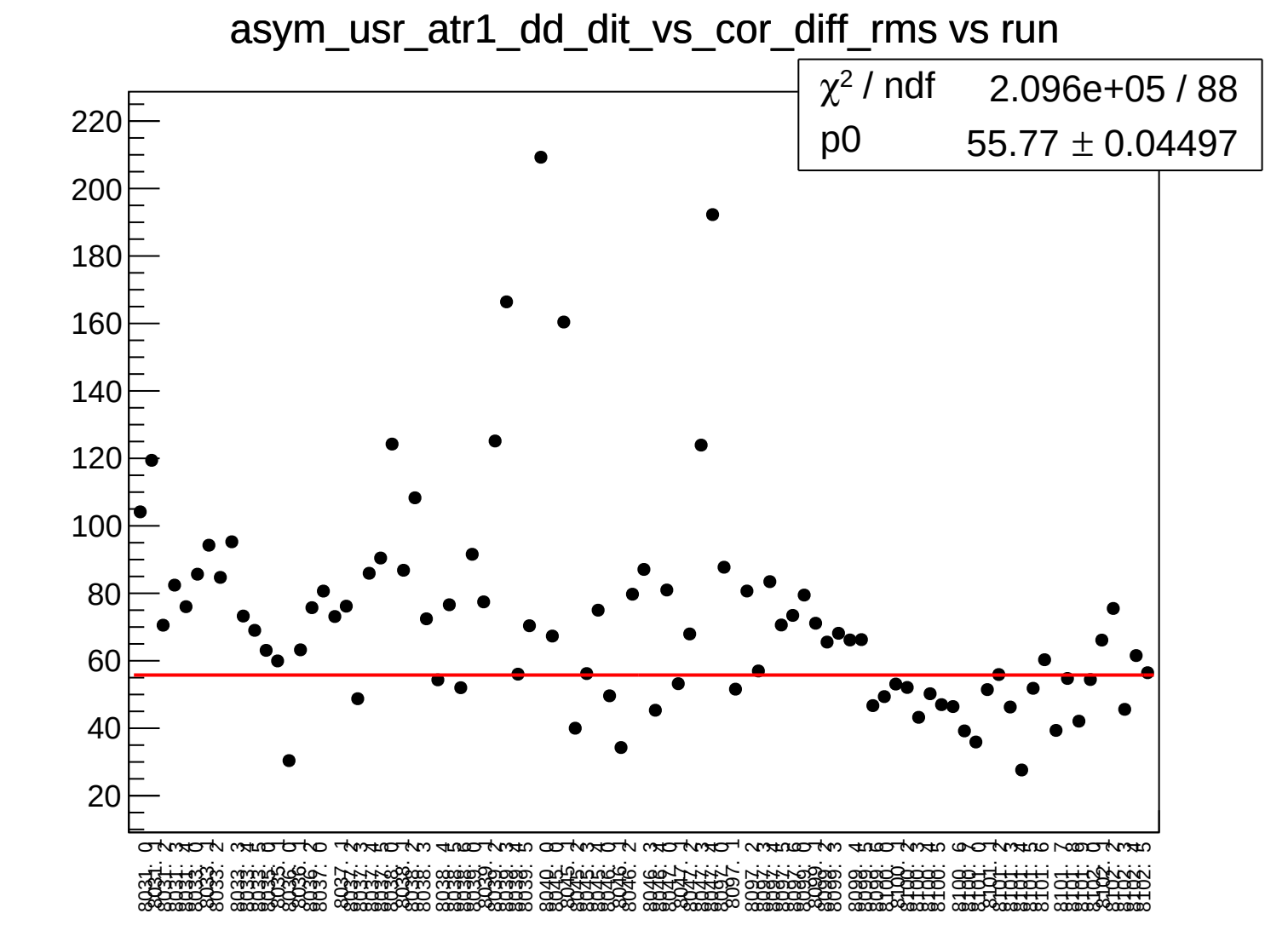

asym_usr_atr1_dd_rms vs run
χ² / ndf 1.877e+04 / 88
p0 1715 ± 1.305
2100
2000
1900
1800
1700
1600
1500

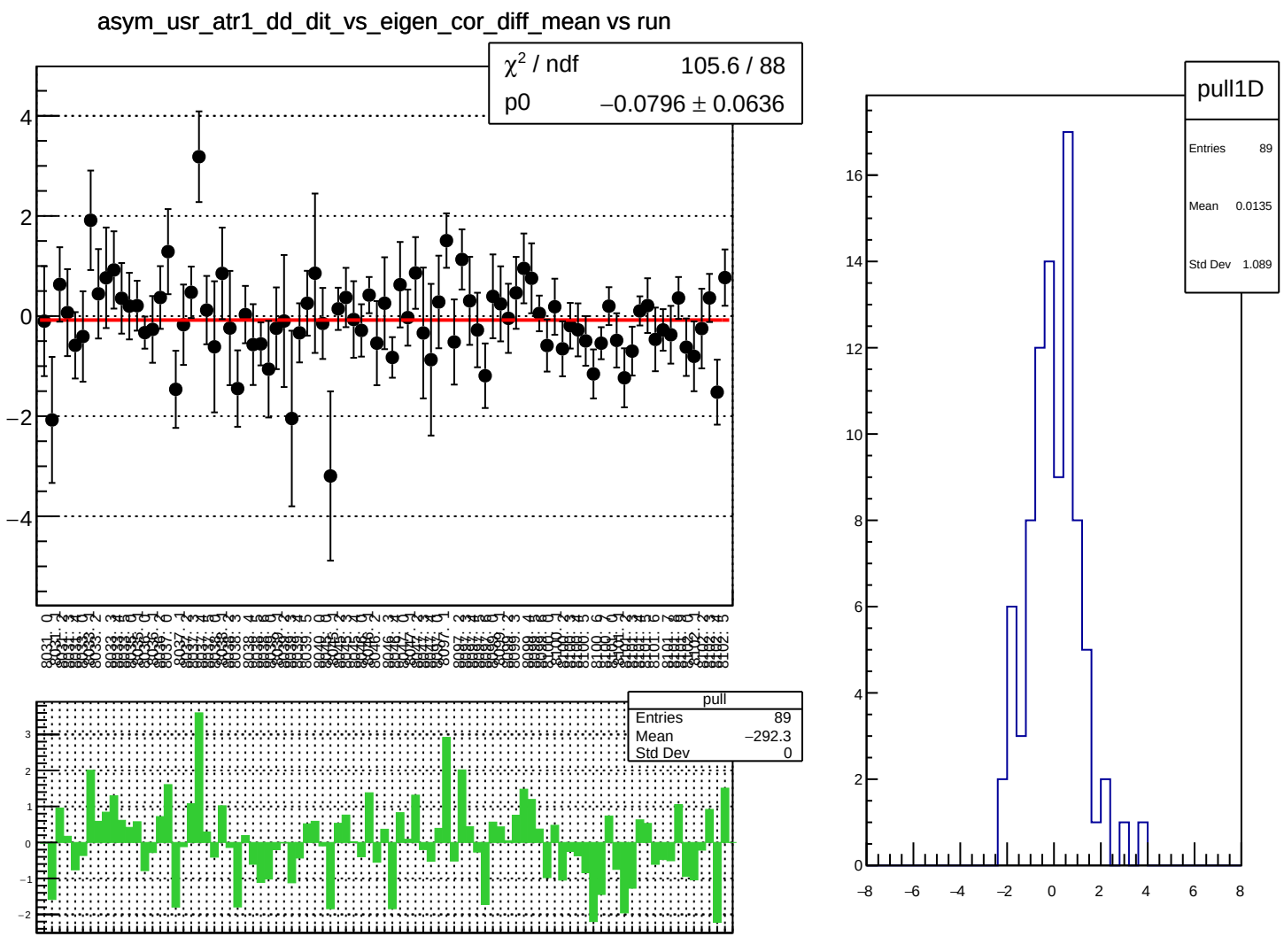

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 92.44 / 88
p0 1.528e−13 ± 1.239e−13
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 89
Mean −6.699
Std Dev 6.499
2
1
0
−1
−2
−3

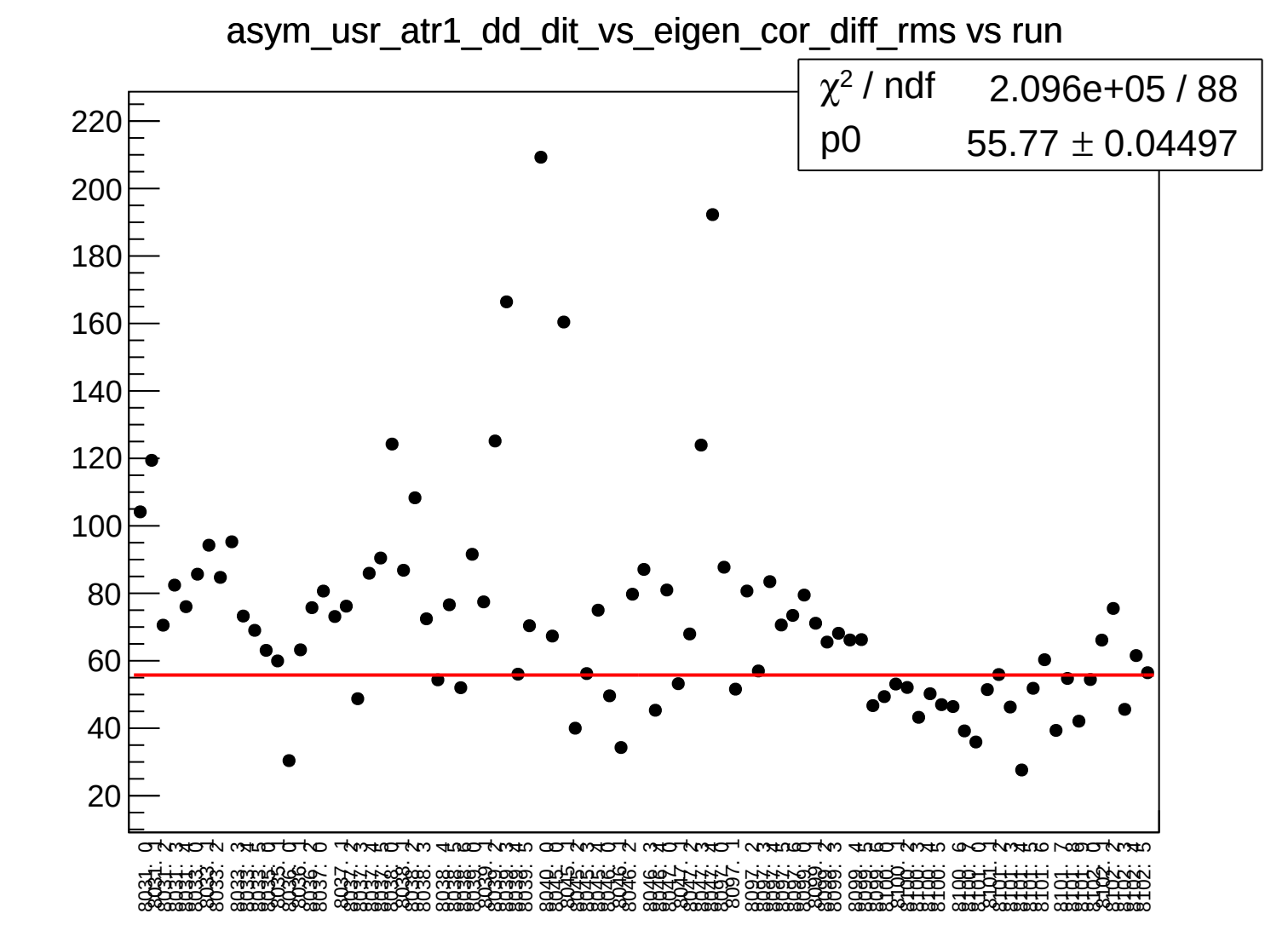

pull1D
Entries 89
Mean −0.04018
Std Dev 1.018
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

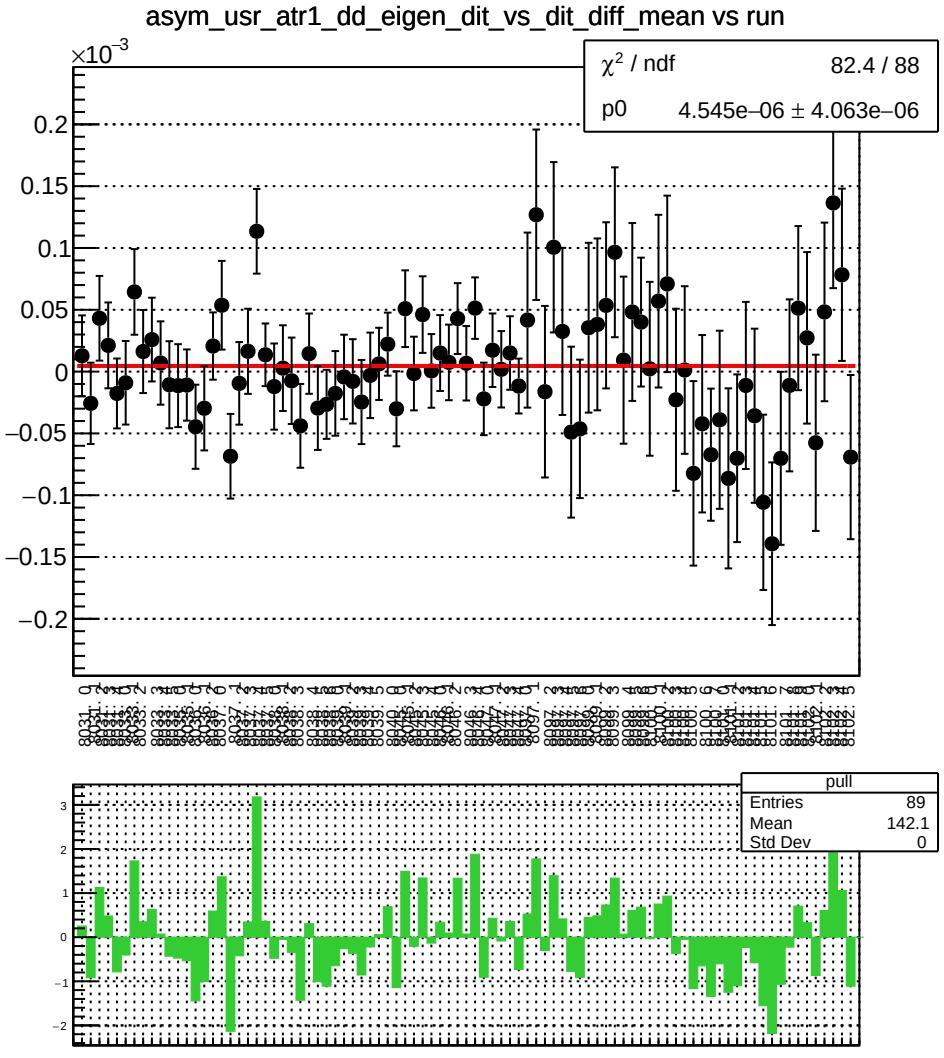

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.01e+06 / 88
p0 7.52e−11 ± 8.759e−14
1
0.8
0.6
0.4
0.2
0

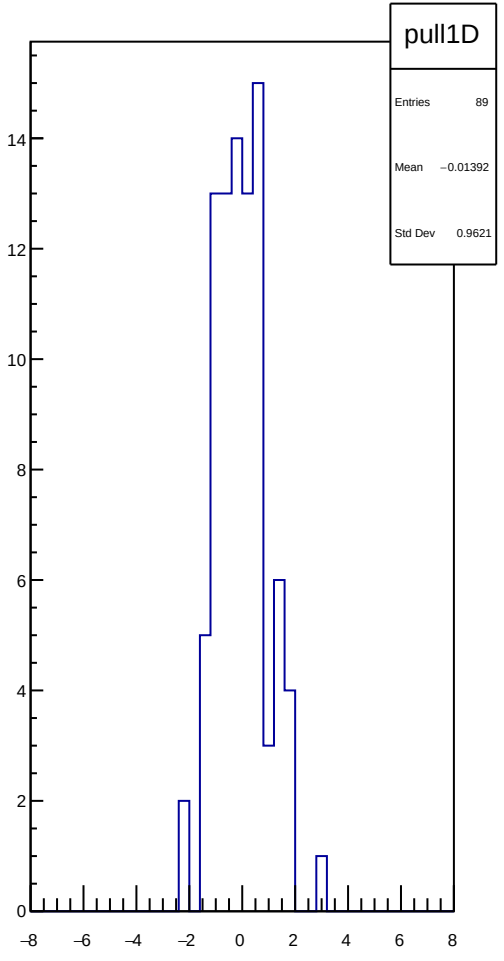

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 105.6 / 88
p0 −0.0796 ± 0.0636
pull
Entries 89
Mean −292.3
Std Dev 0
pull1D
Entries 89
Mean 0.0135
Std Dev 1.089

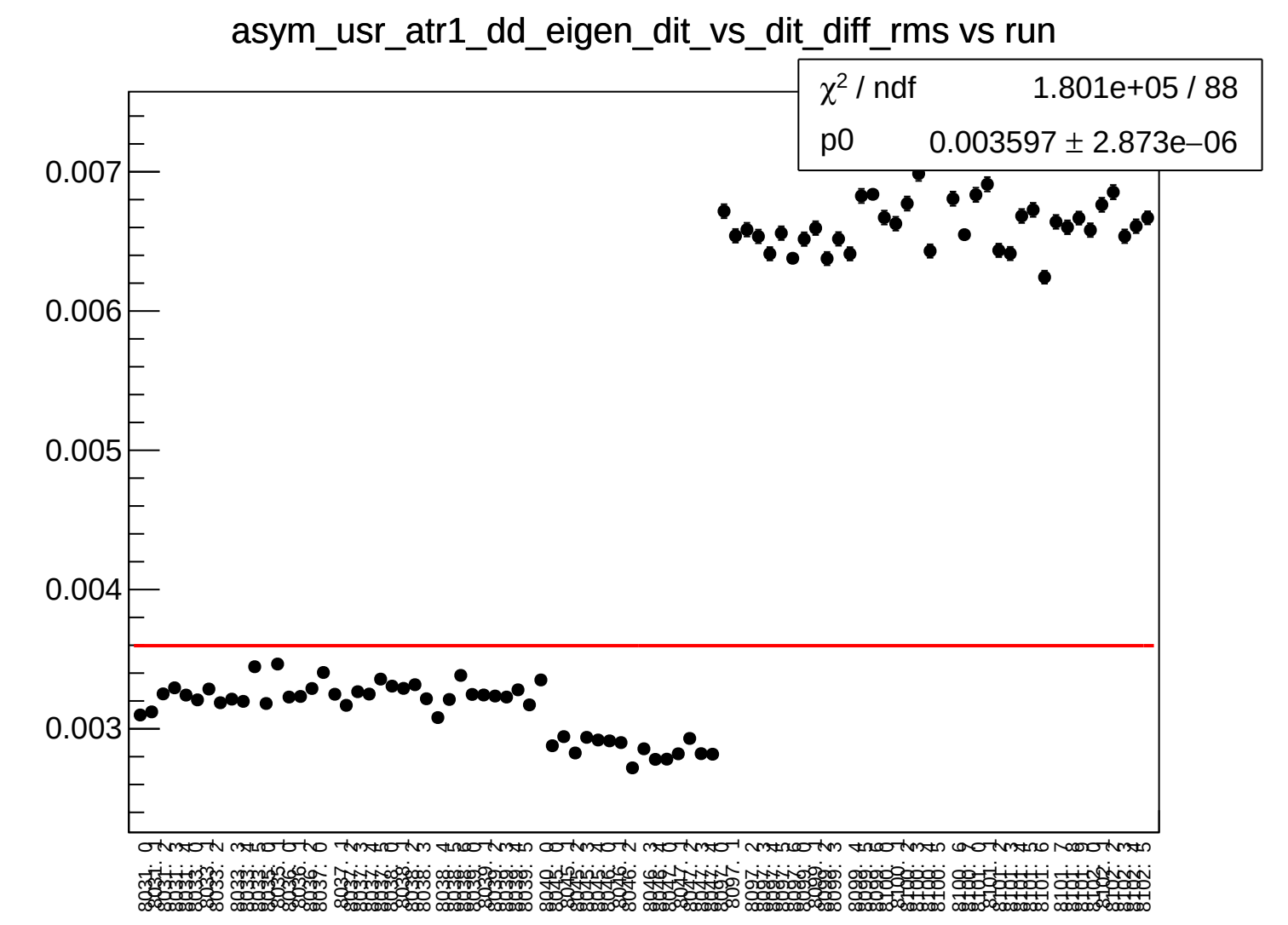

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.096e+05 / 88
p0 55.77 ± 0.04497
220
200
180
160
140
120
100
80
60
40
20

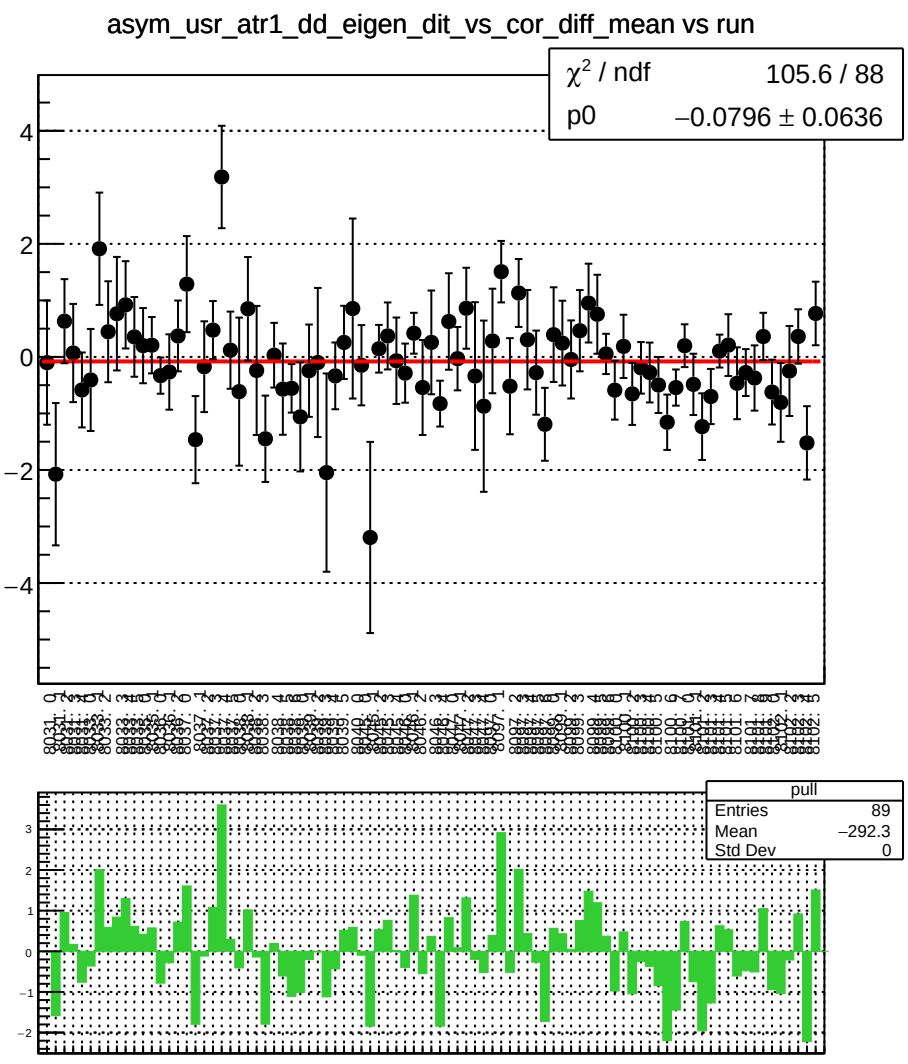

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.6 / 88
p0 −0.0796 ± 0.0636
pull
Entries 89
Mean −292.3
Std Dev 0
pull1D
Entries 89
Mean 0.0135
Std Dev 1.089

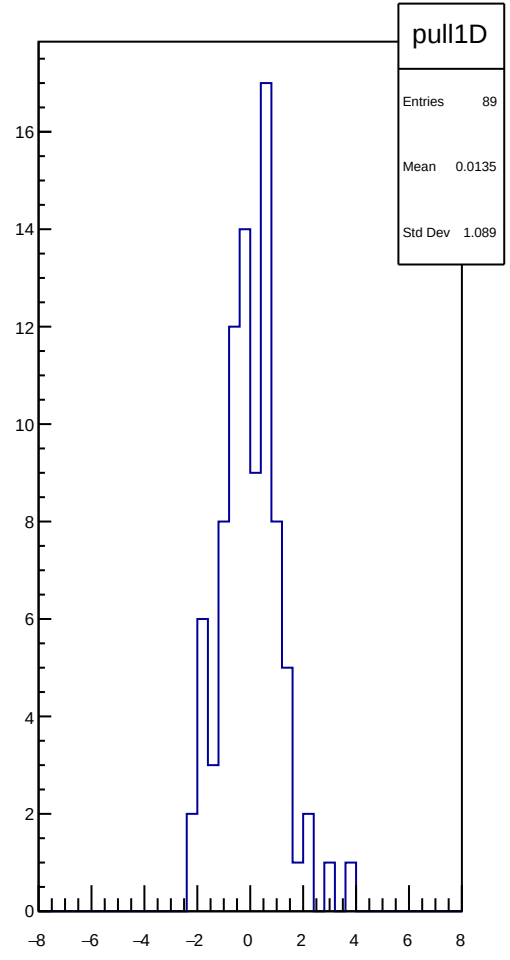

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.096e+05 / 88
p0 55.77 ± 0.04497
220
200
180
160
140
120
100
80
60
40
20

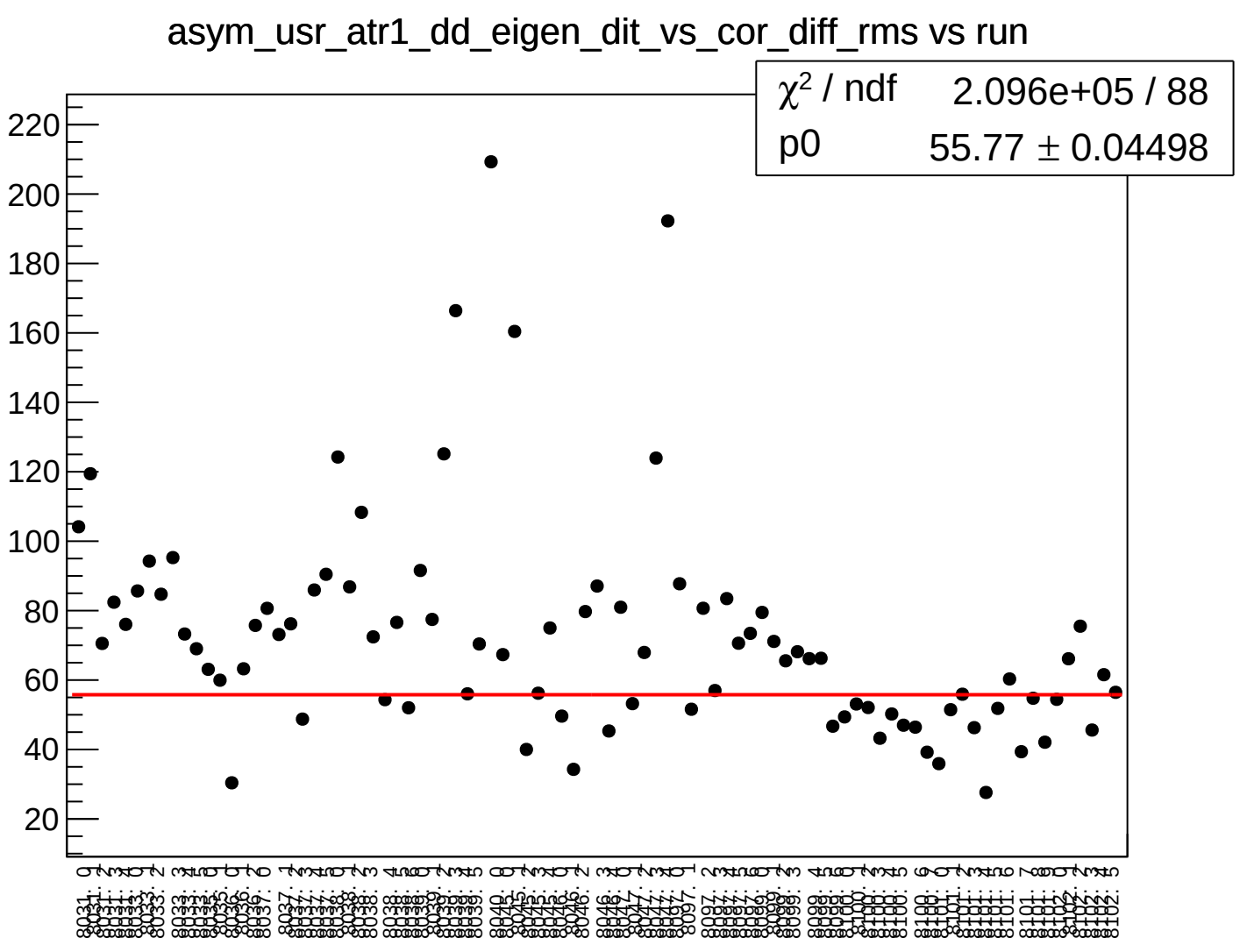

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.4 / 88
p0 4.545e−06 ± 4.063e−06
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 89
Mean 142.1
Std Dev 0
3
2
1
0
−1
−2

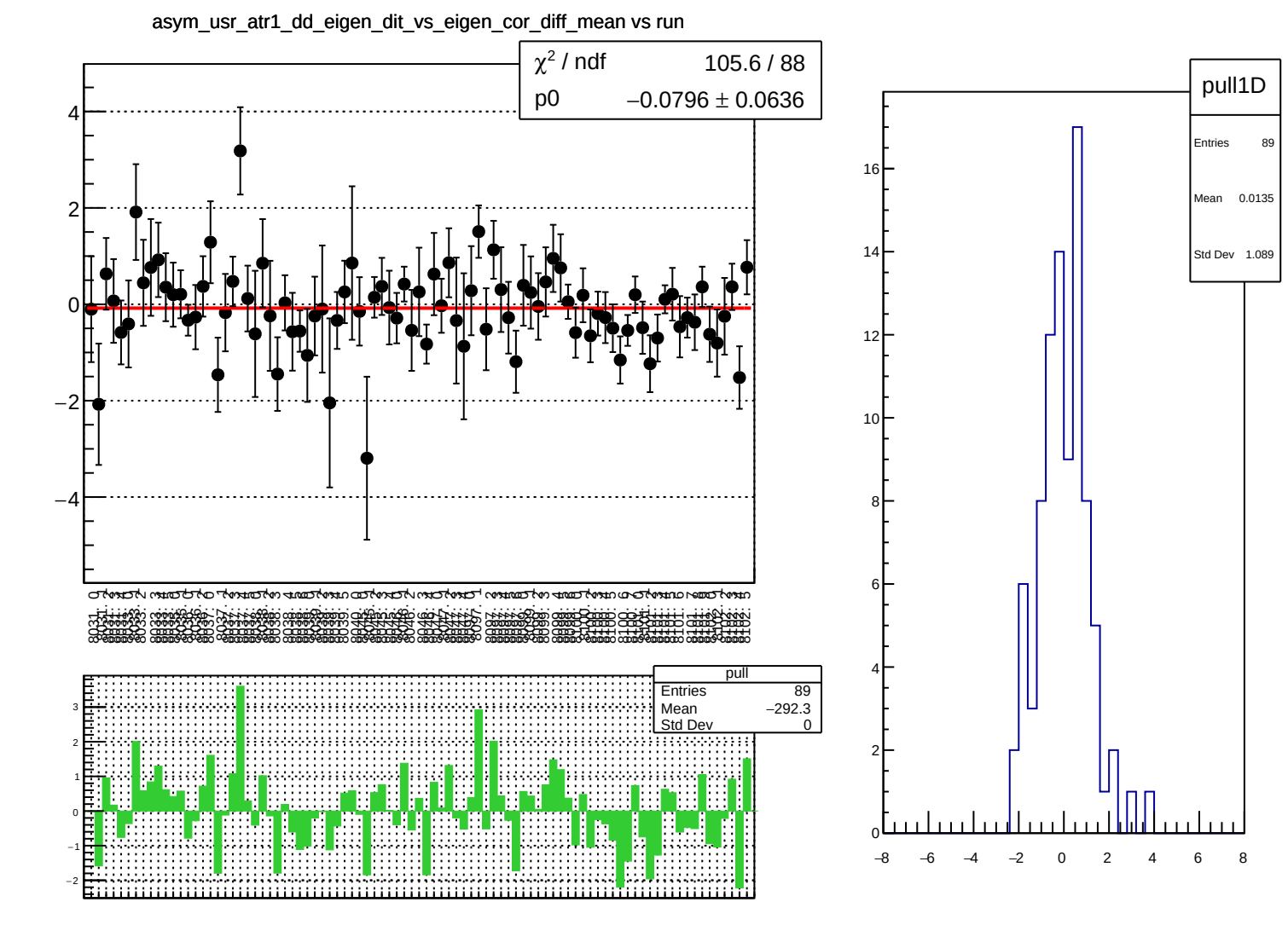

pull1D
Entries 89
Mean −0.01392
Std Dev 0.9621
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

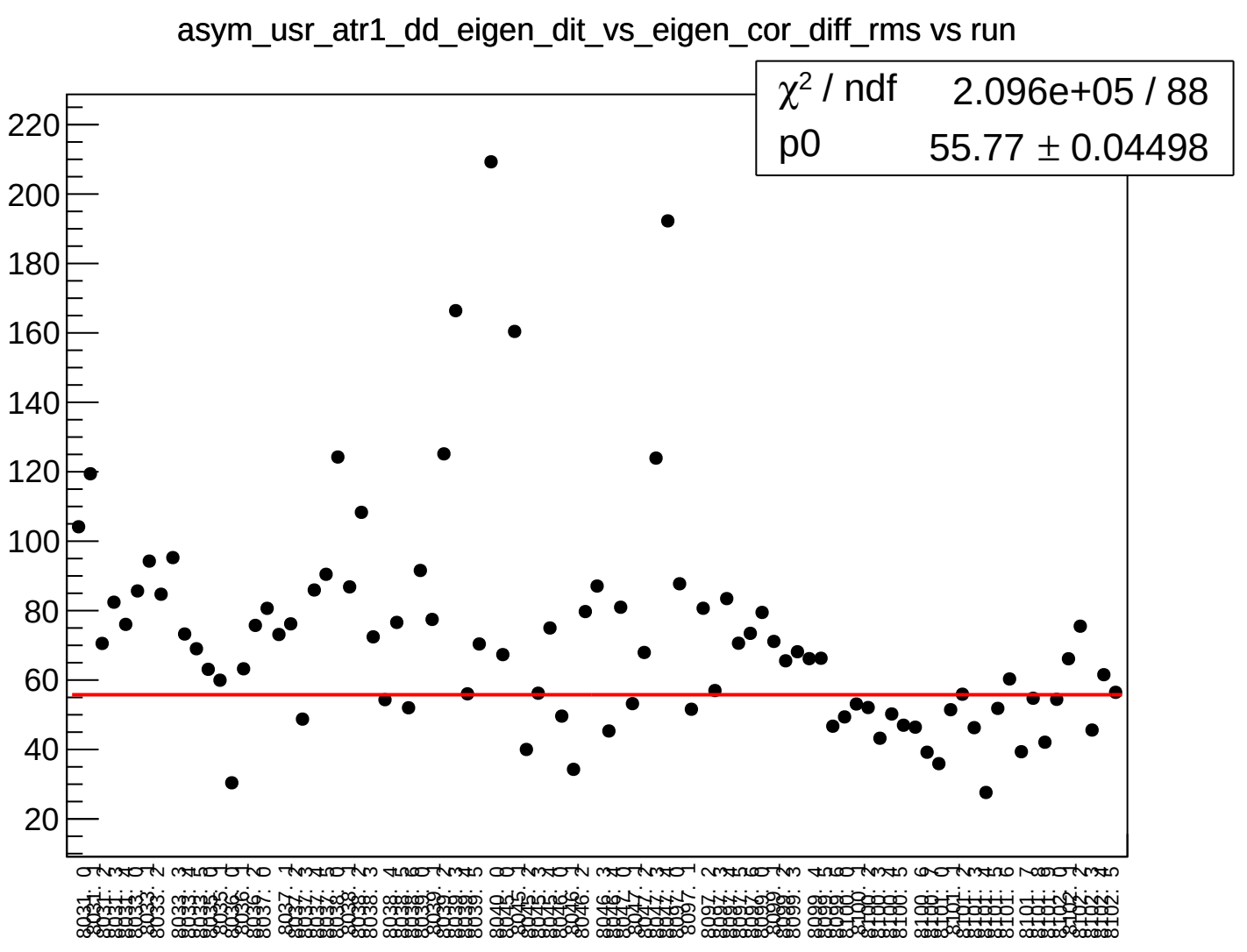

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.801e+05 / 88
p0 0.003597 ± 2.873e−06
0.007
0.006
0.005
0.004
0.003

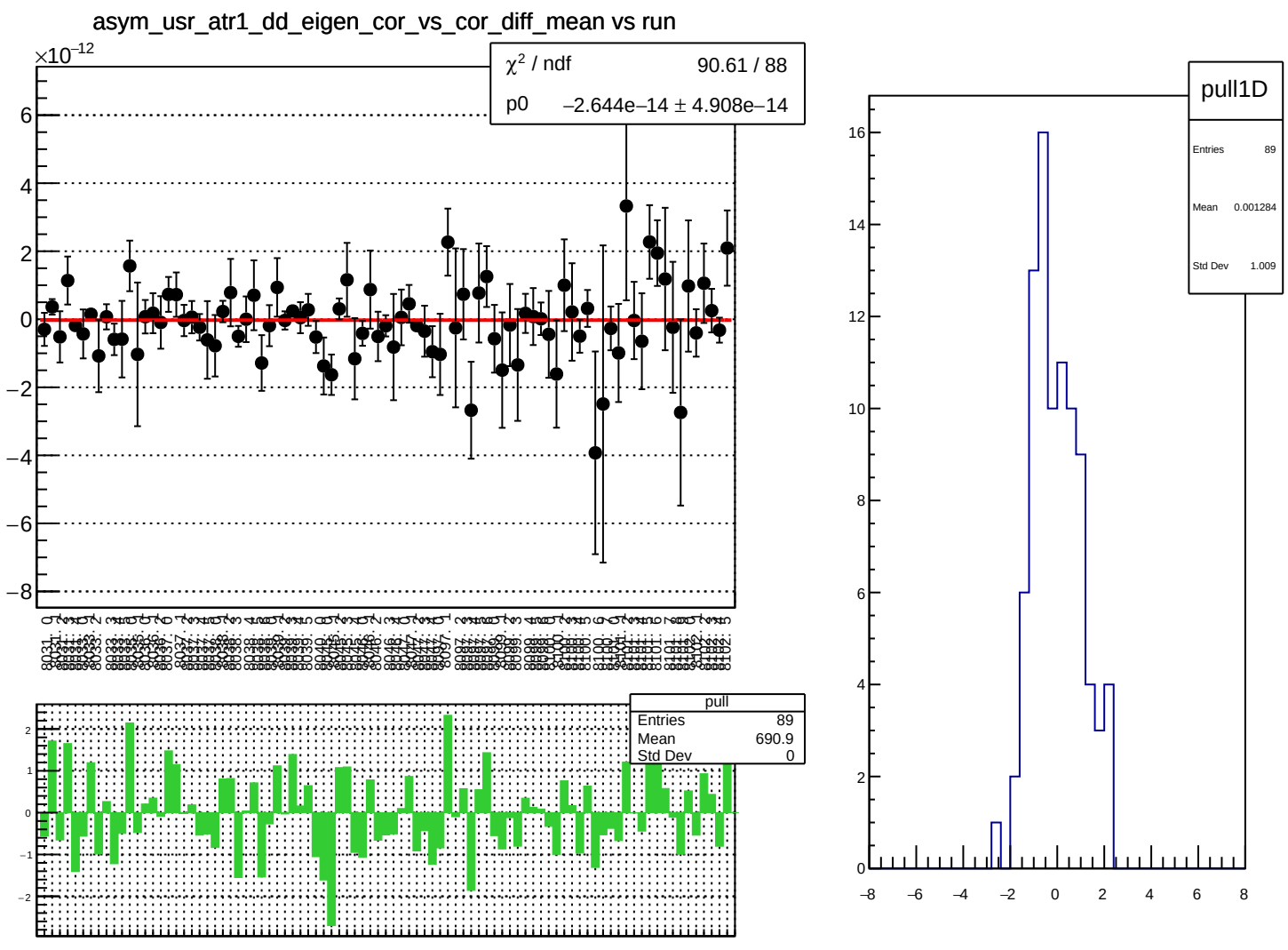

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 105.6 / 88
p0 −0.0796 ± 0.0636
pull
Entries 89
Mean −292.3
Std Dev 0

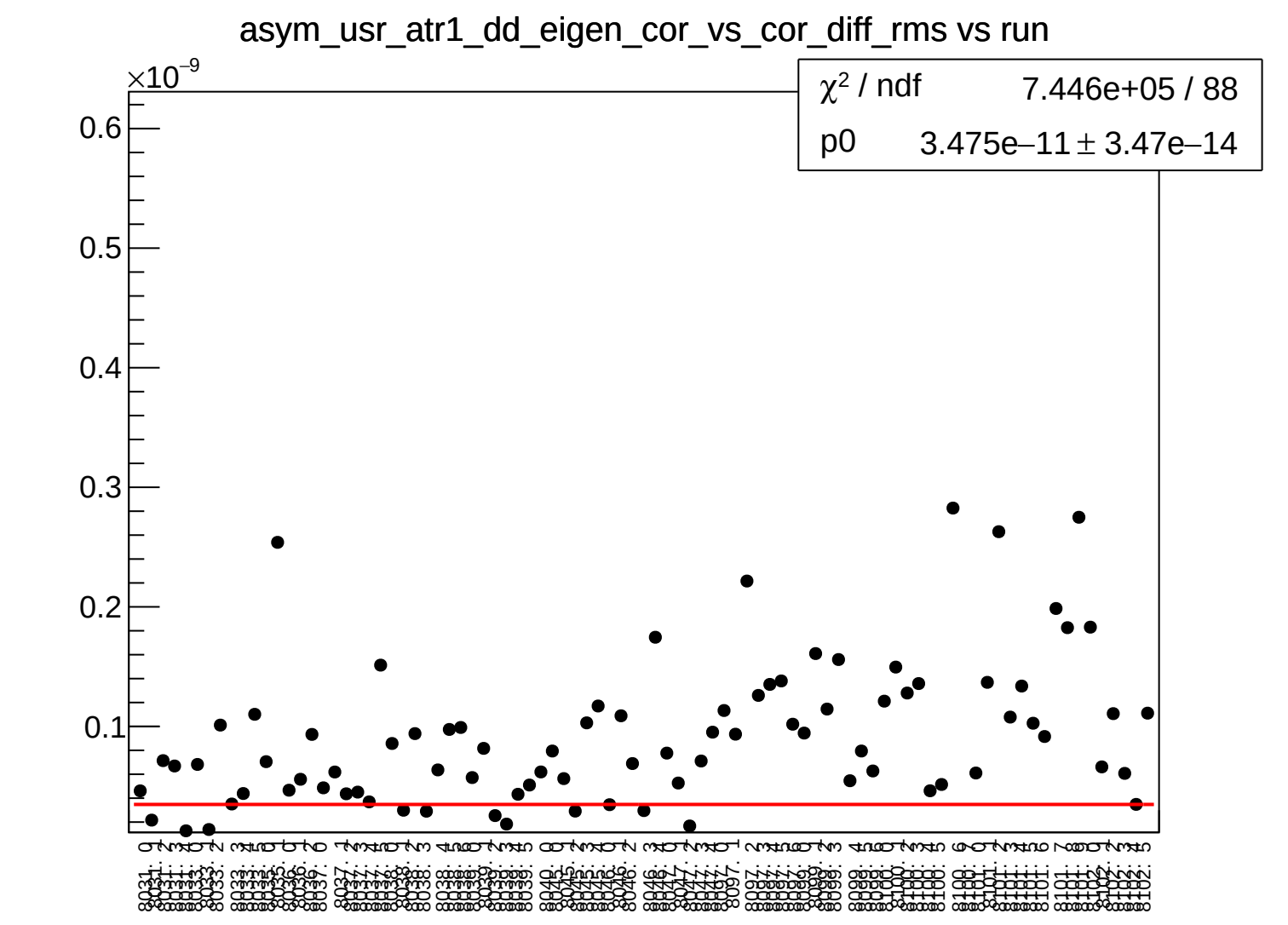

pull1D
Entries 89
Mean 0.0135
Std Dev 1.089

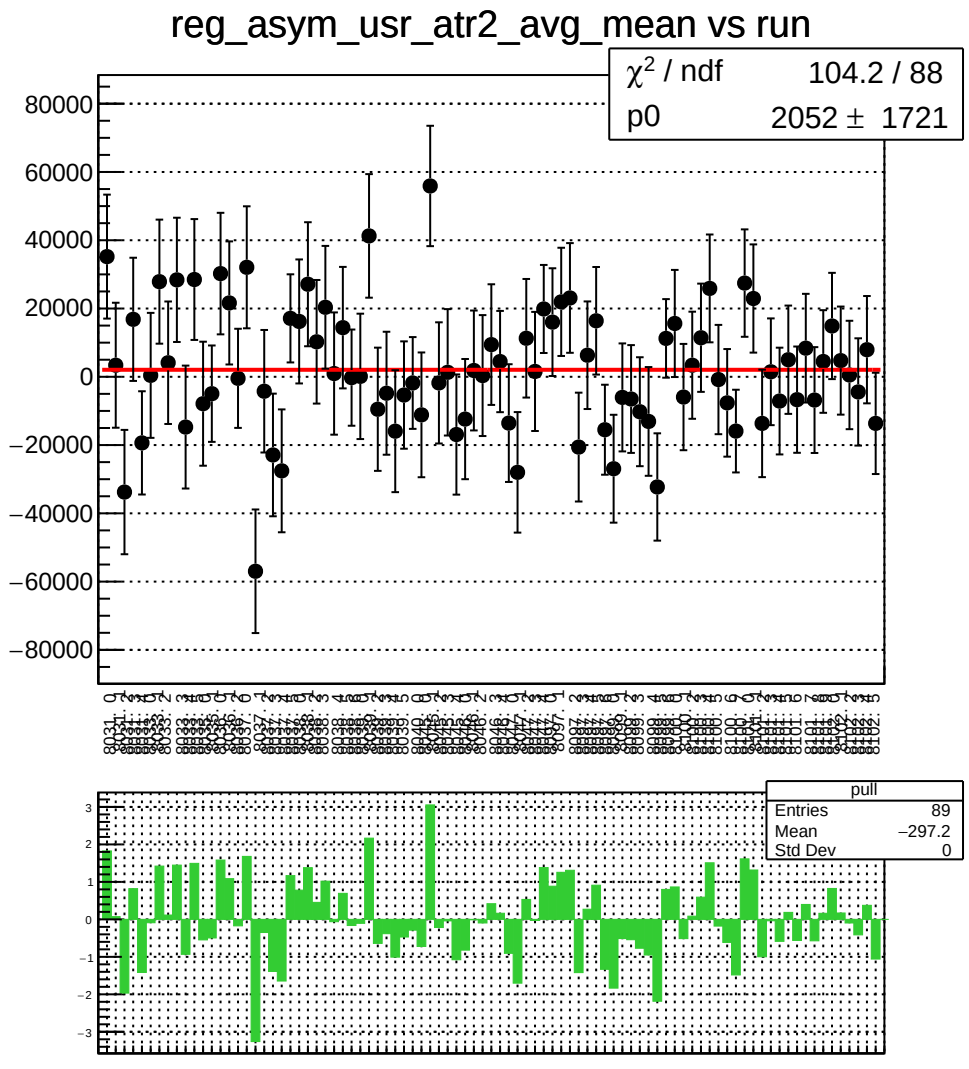

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.096e+05 / 88
p0 55.77 ± 0.04498
220
200
180
160
140
120
100
80
60
40
20

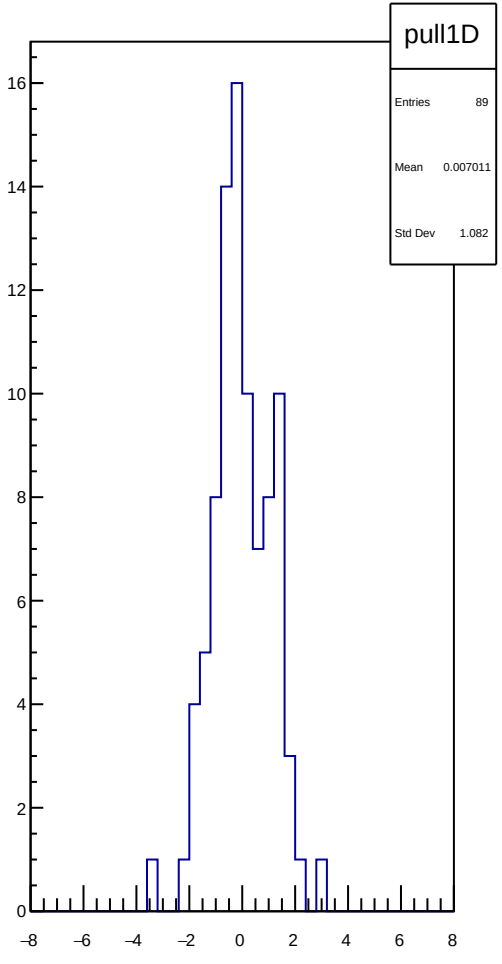

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.6 / 88
p0 −0.0796 ± 0.0636
pull
Entries 89
Mean −292.3
Std Dev 0
pull1D
Entries 89
Mean 0.0135
Std Dev 1.089

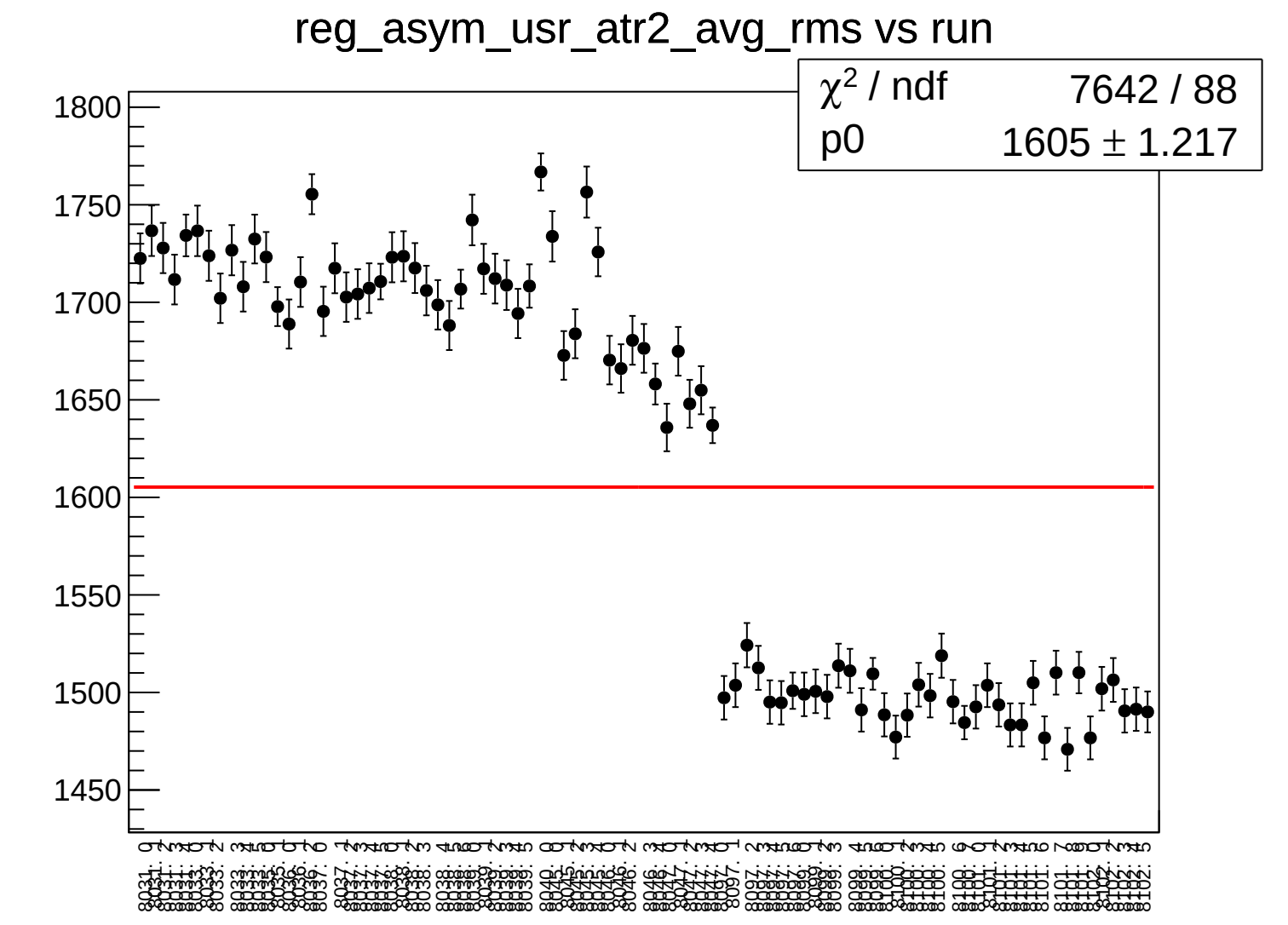

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.096e+05 / 88
p0 55.77 ± 0.04498
220
200
180
160
140
120
100
80
60
40
20

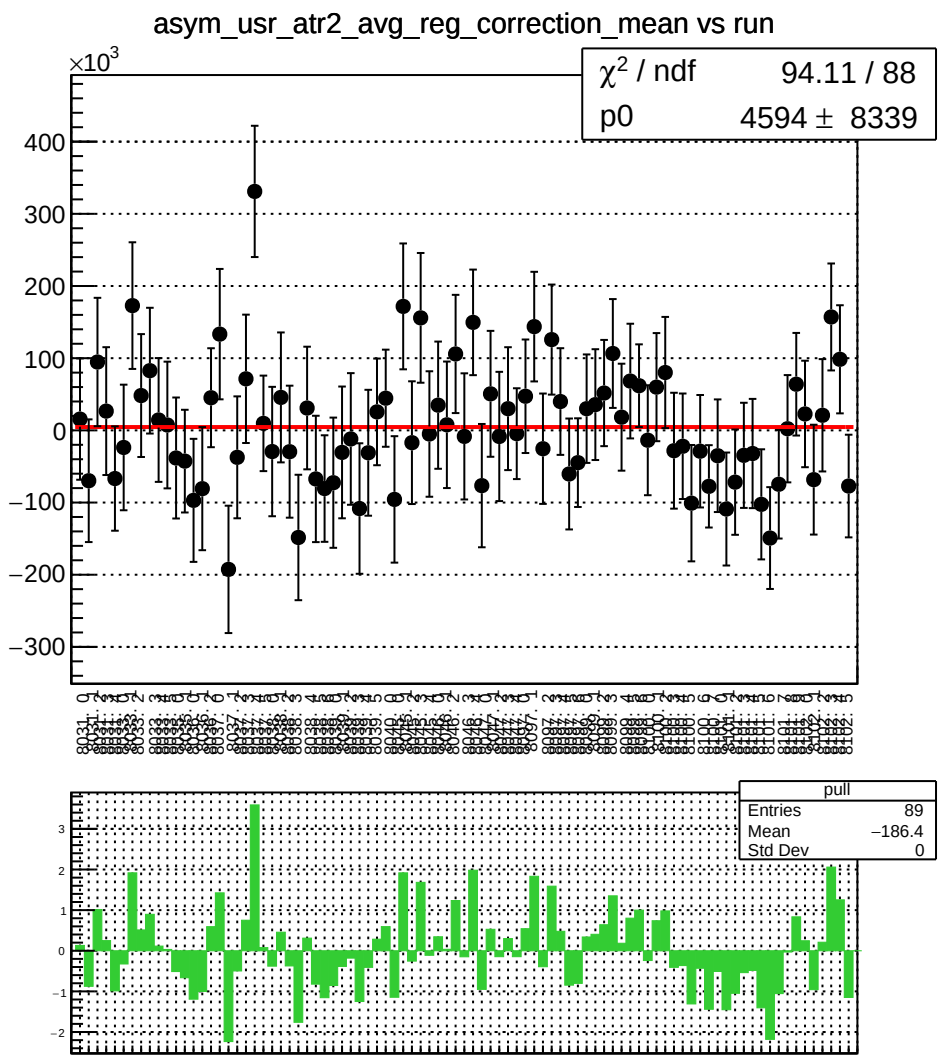

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.61 / 88
p0 −2.644e−14 ± 4.908e−14
pull
Entries 89
Mean 690.9
Std Dev 0
pull1D
Entries 89
Mean 0.001284
Std Dev 1.009

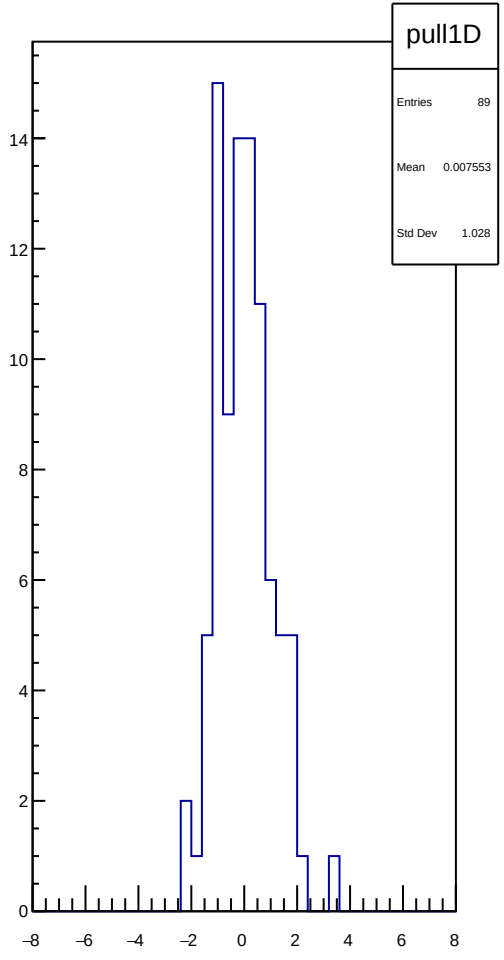

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.446e+05 / 88
p0 3.475e−11 ± 3.47e−14
0.6
0.5
0.4
0.3
0.2
0.1

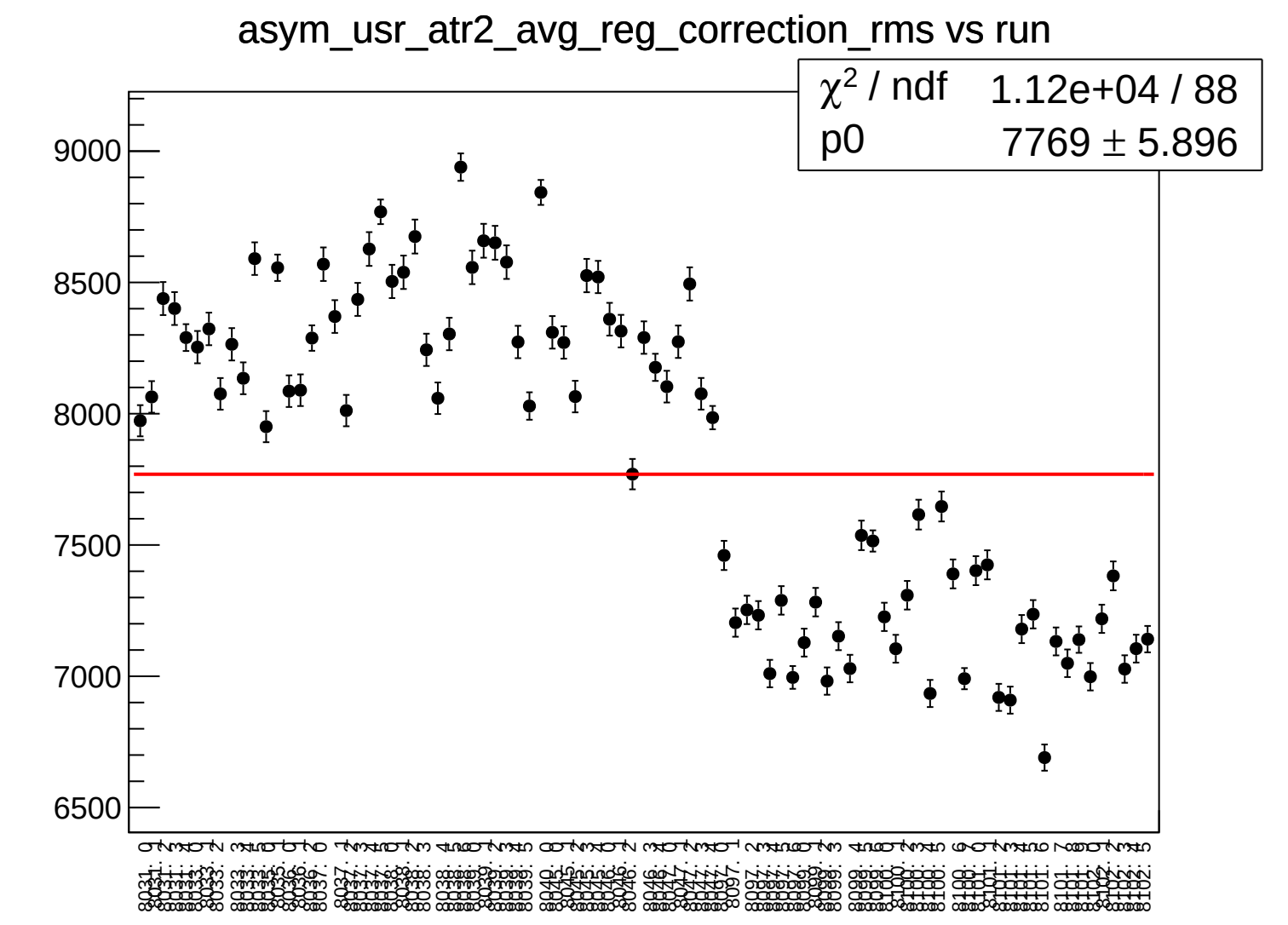

reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 104.2 / 88
p0 2052 ± 1721
pull
Entries 89
Mean −297.2
Std Dev 0

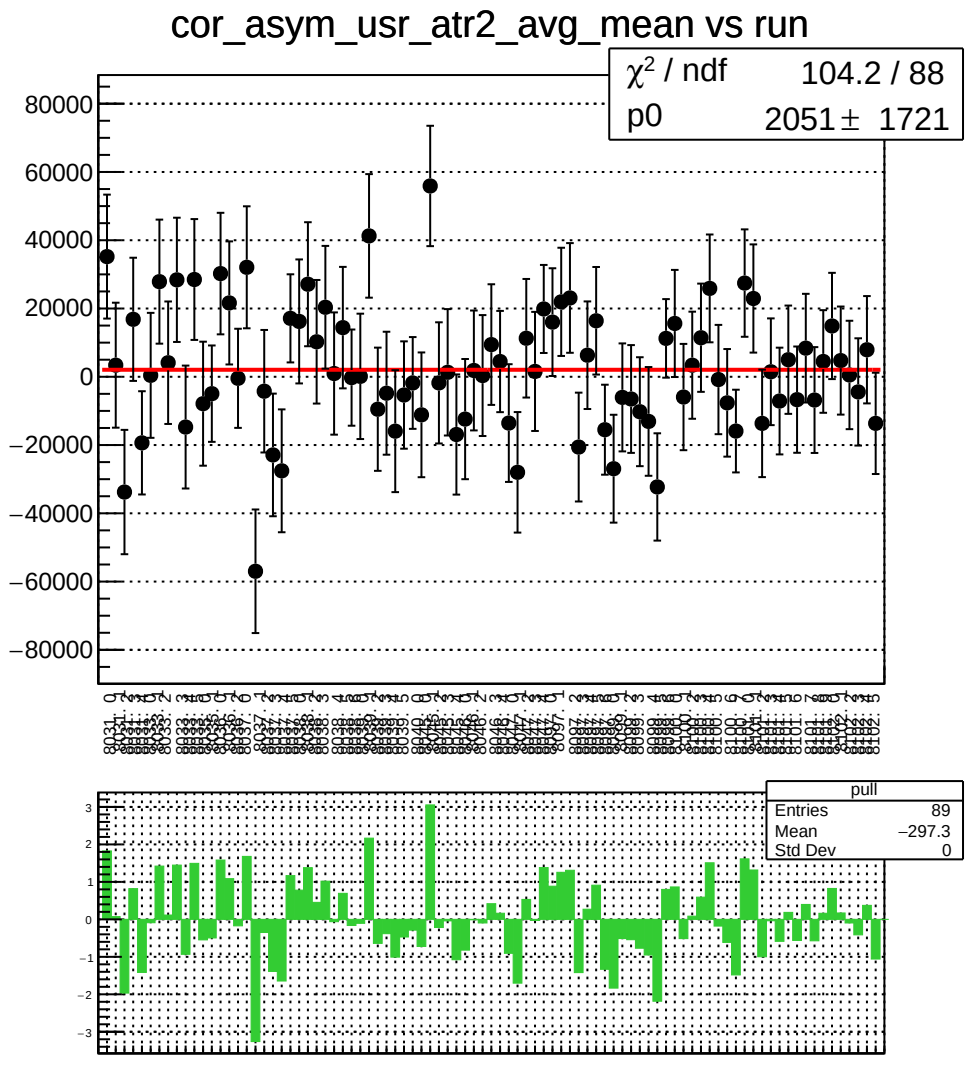

pull1D
Entries 89
Mean 0.007011
Std Dev 1.082

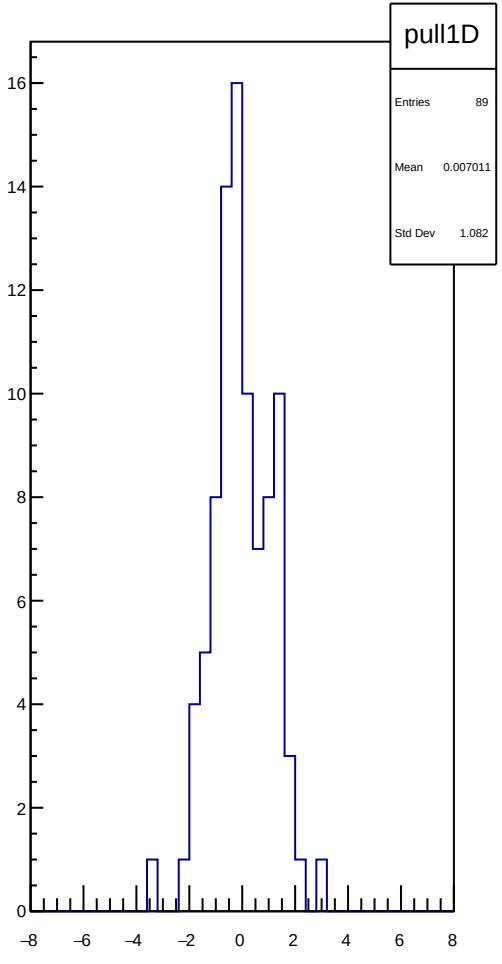

reg_asym_usr_atr2_avg_rms vs run
χ² / ndf 7642 / 88
p0 1605 ± 1.217
1800
1750
1700
1650
1600
1550
1500
1450

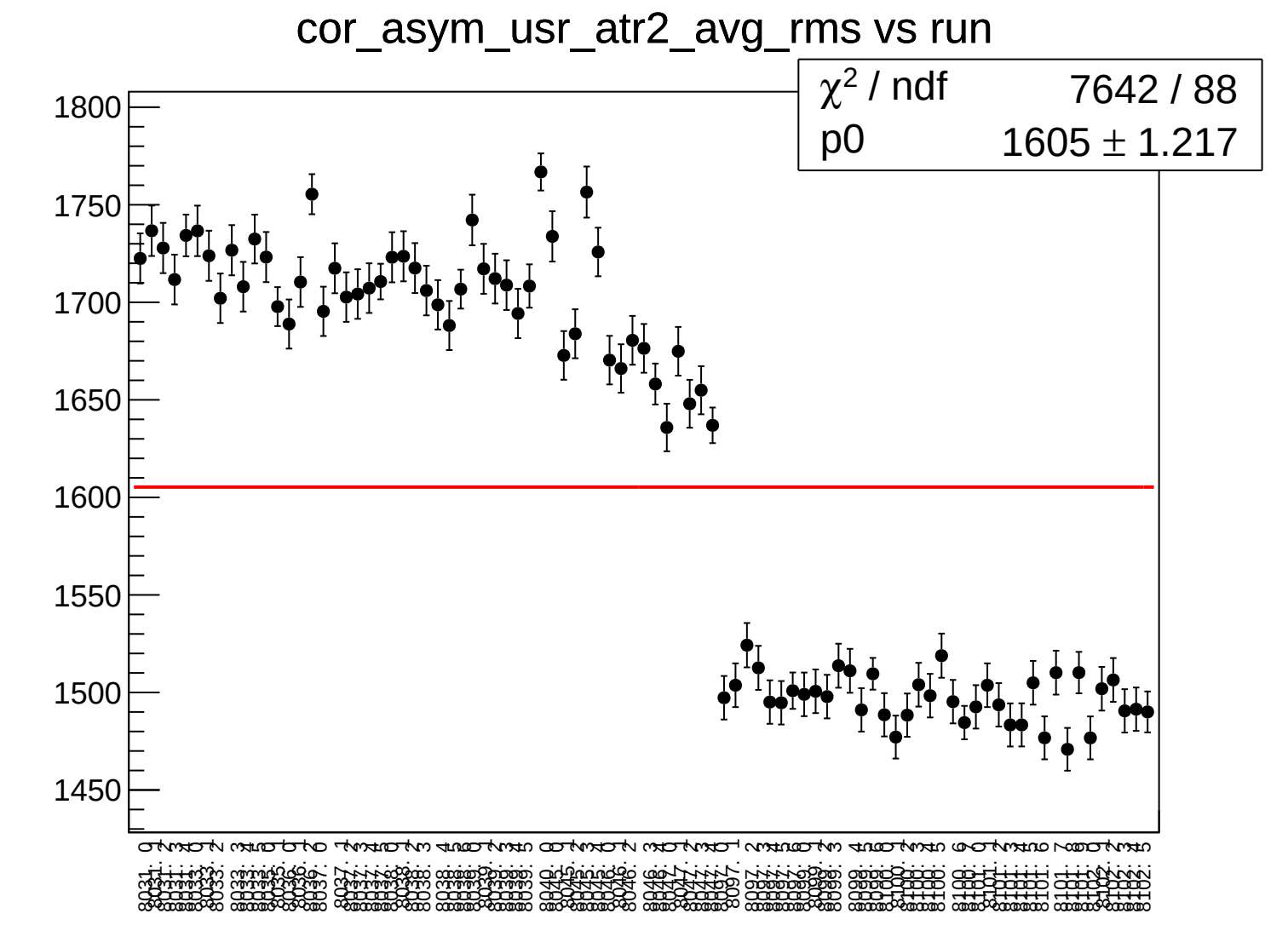

asym_usr_atr2_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 94.11 / 88
p0 4594 ± 8339
400
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −186.4
Std Dev 0
3
2
1
0
−1
−2

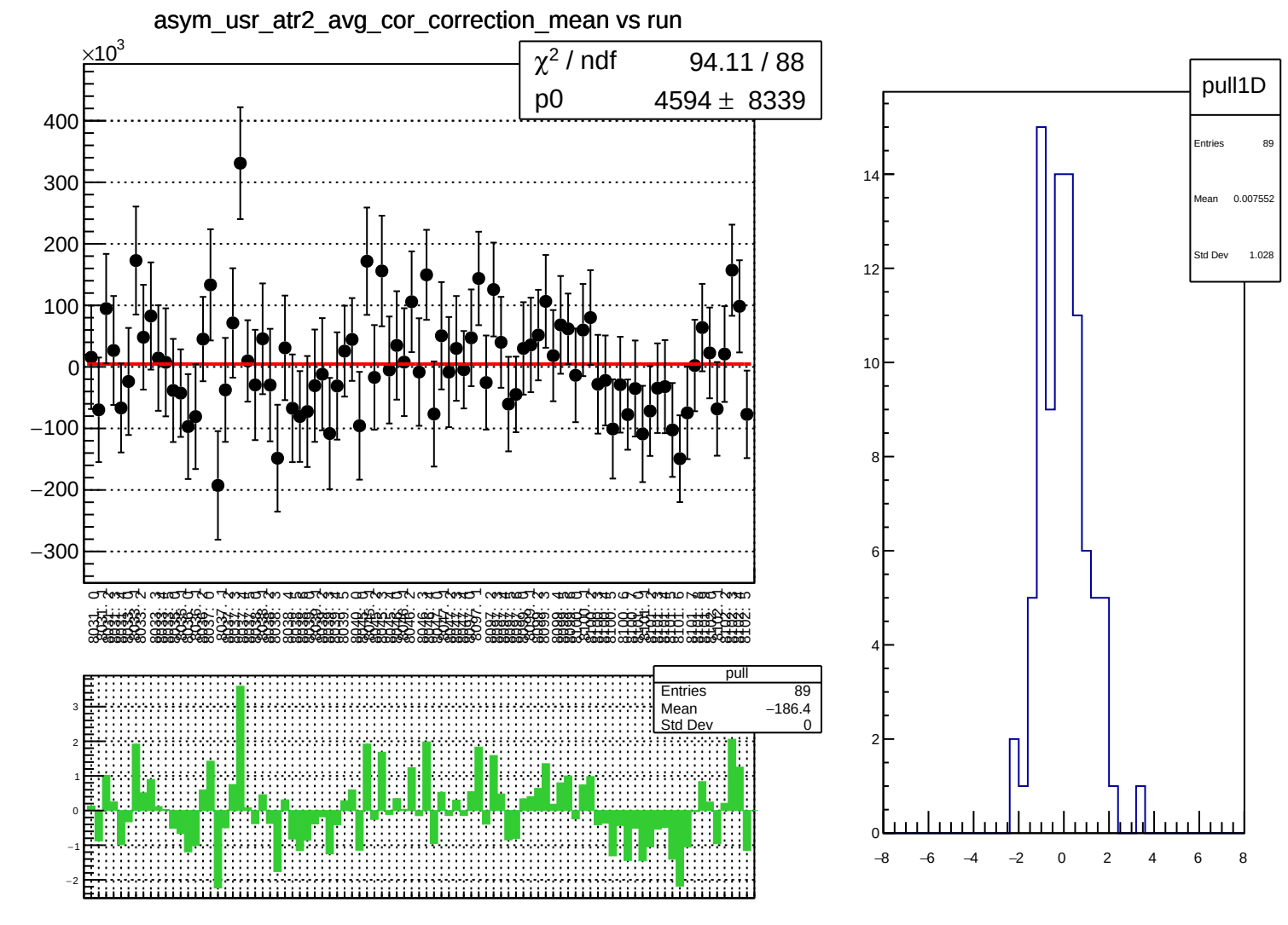

pull1D
Entries 89
Mean 0.007553
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

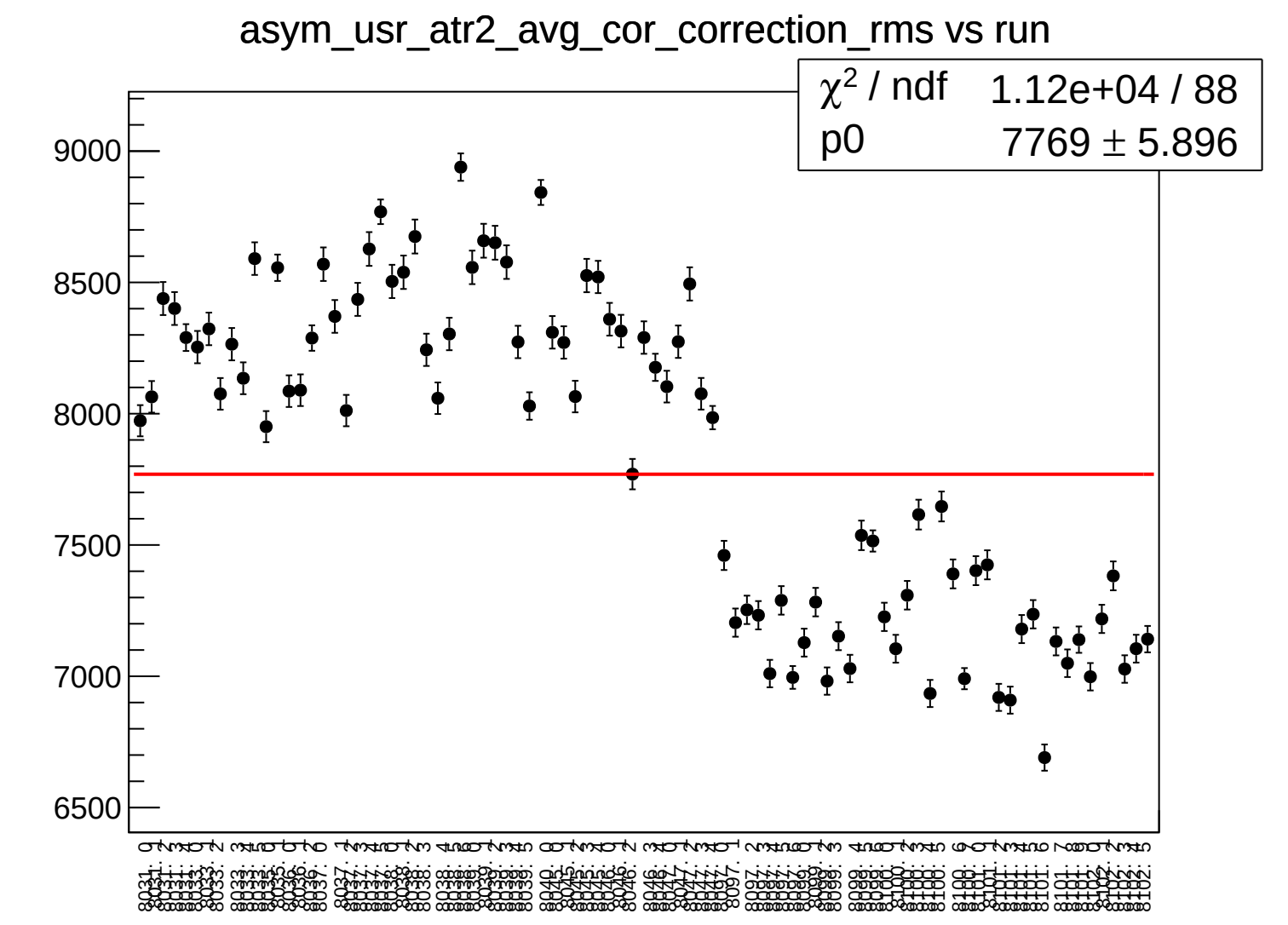

asym_usr_atr2_avg_reg_correction_rms vs run
χ² / ndf 1.12e+04 / 88
p0 7769 ± 5.896
9000
8500
8000
7500
7000
6500

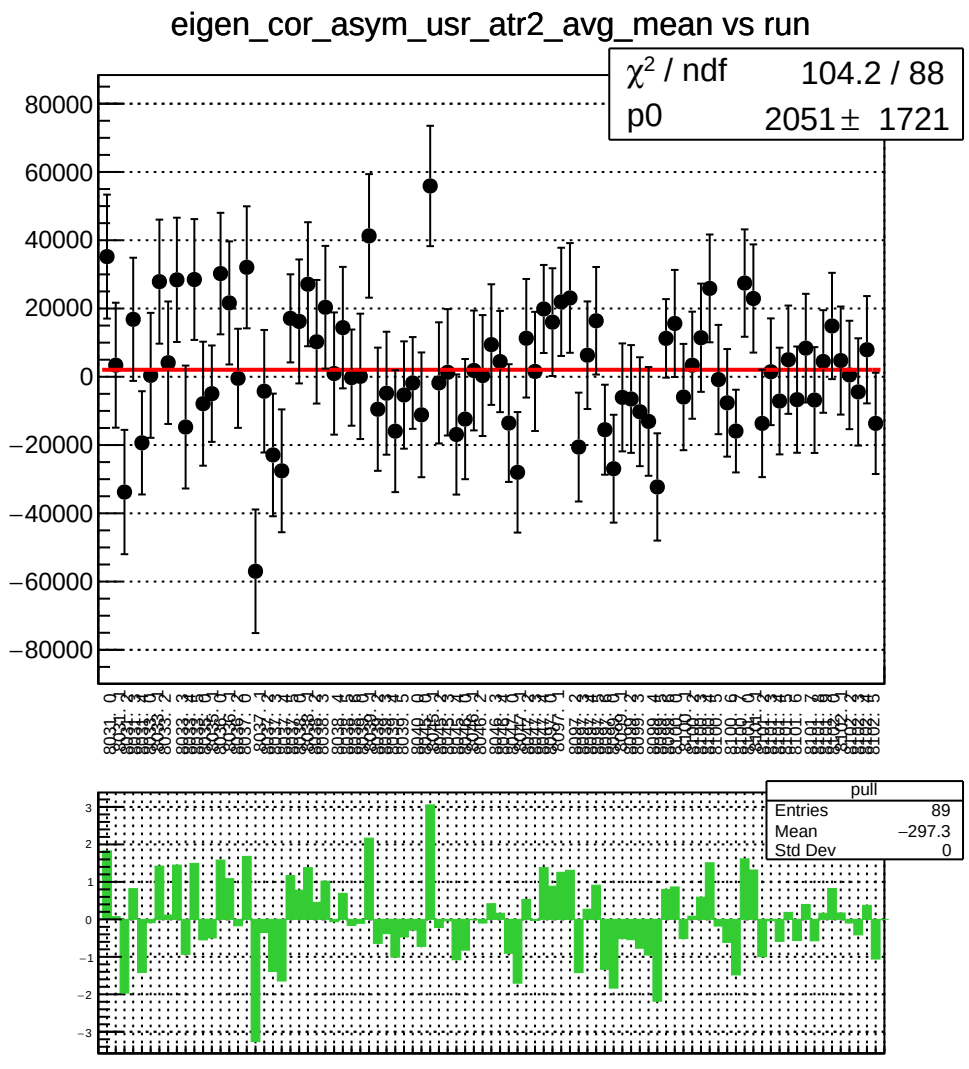

cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 104.2 / 88
p0 2051 ± 1721
pull
Entries 89
Mean −297.3
Std Dev 0

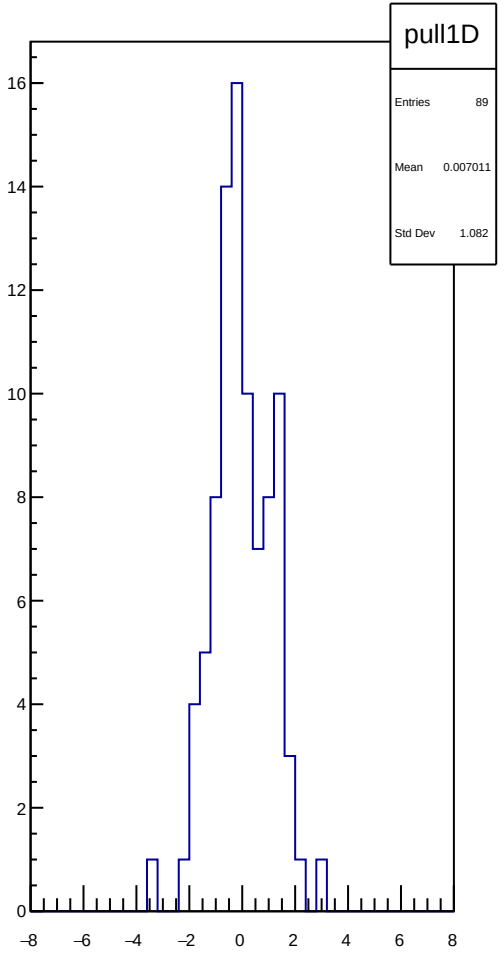

pull1D
Entries 89
Mean 0.007011
Std Dev 1.082

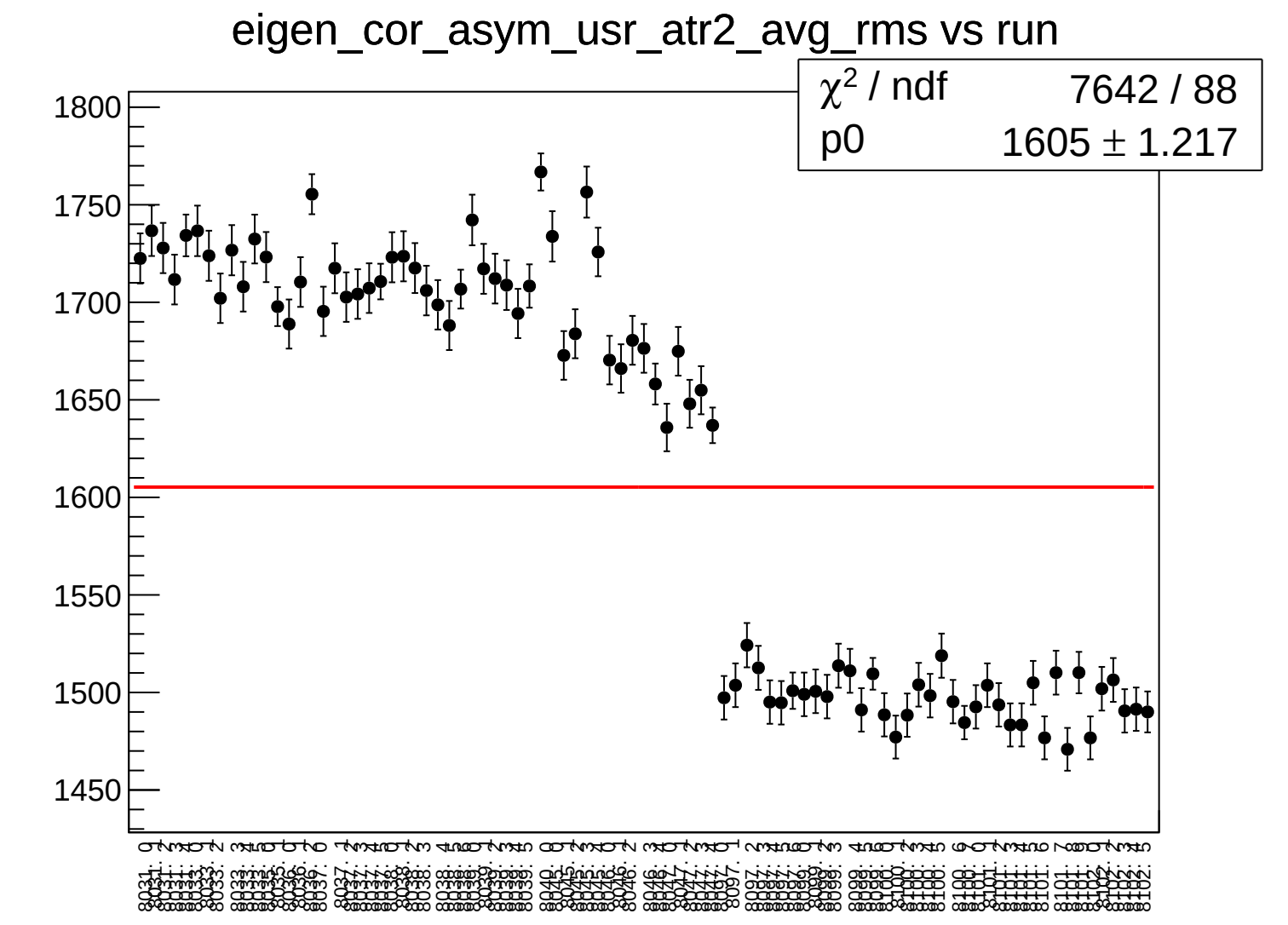

cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 7642 / 88
p0 1605 ± 1.217
1800
1750
1700
1650
1600
1550
1500
1450

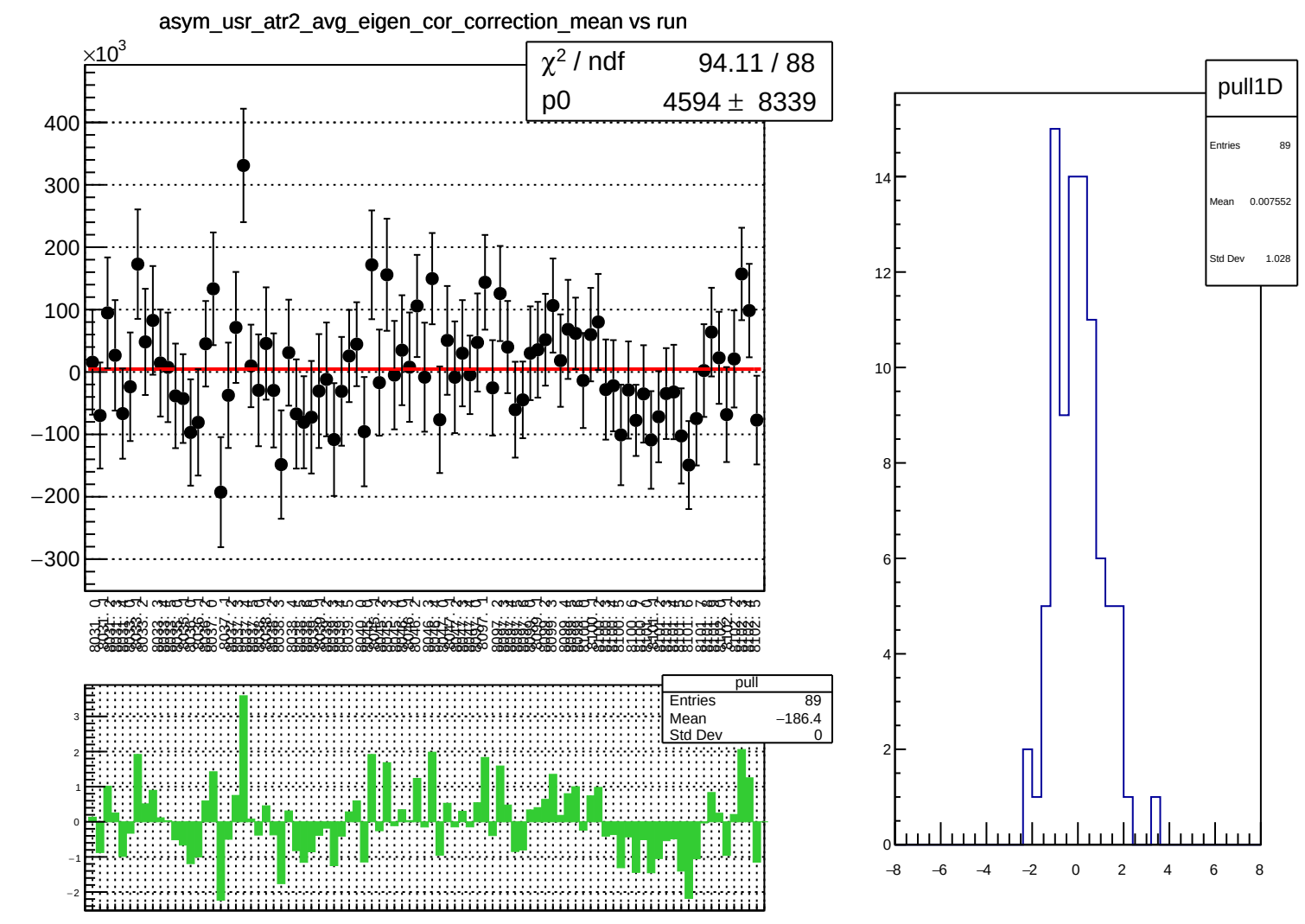

asym_usr_atr2_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 94.11 / 88
p0 4594 ± 8339
400
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −186.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.007552
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

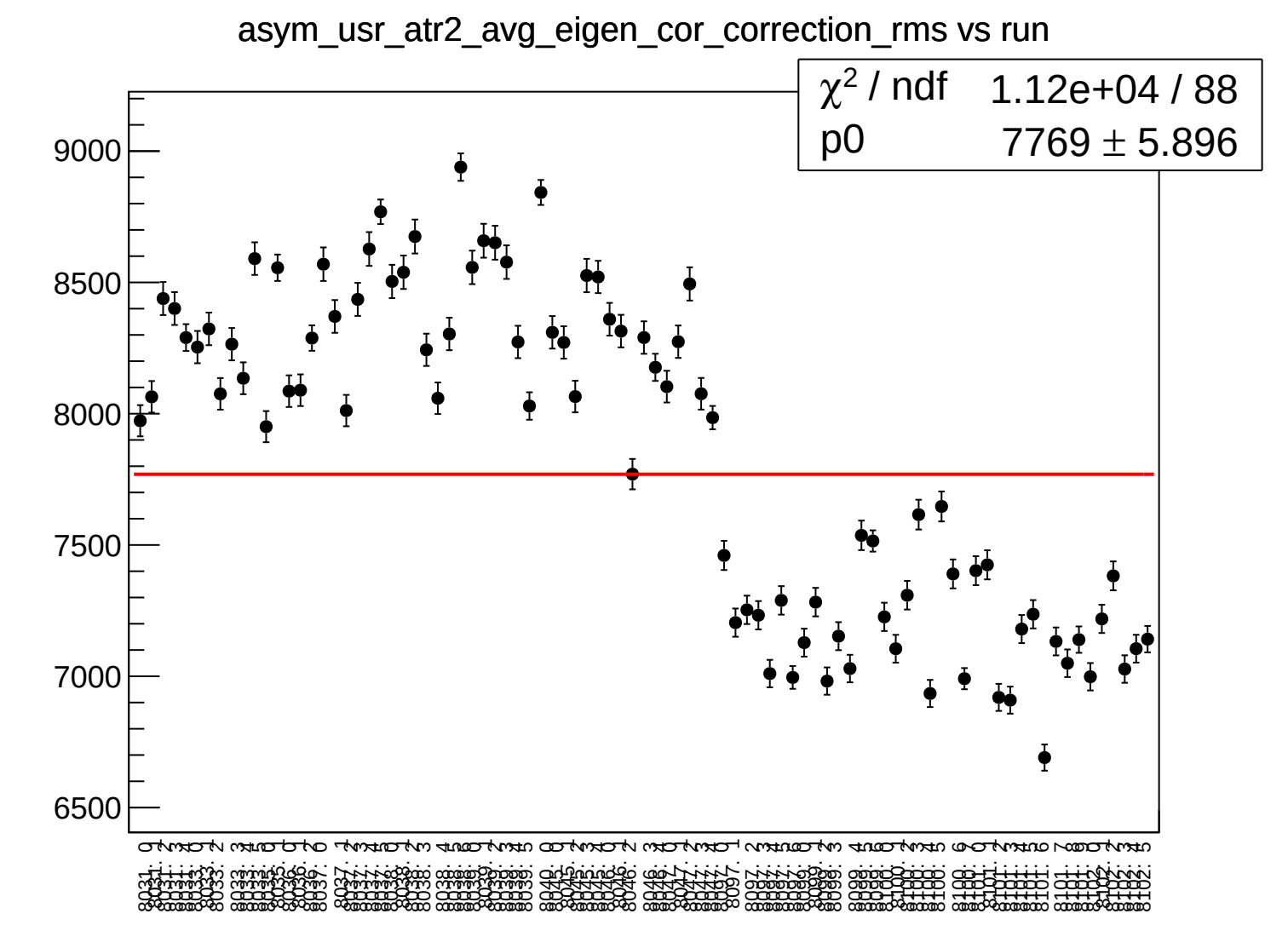

asym_usr_atr2_avg_cor_correction_rms vs run
χ² / ndf 1.12e+04 / 88
p0 7769 ± 5.896
9000
8500
8000
7500
7000
6500

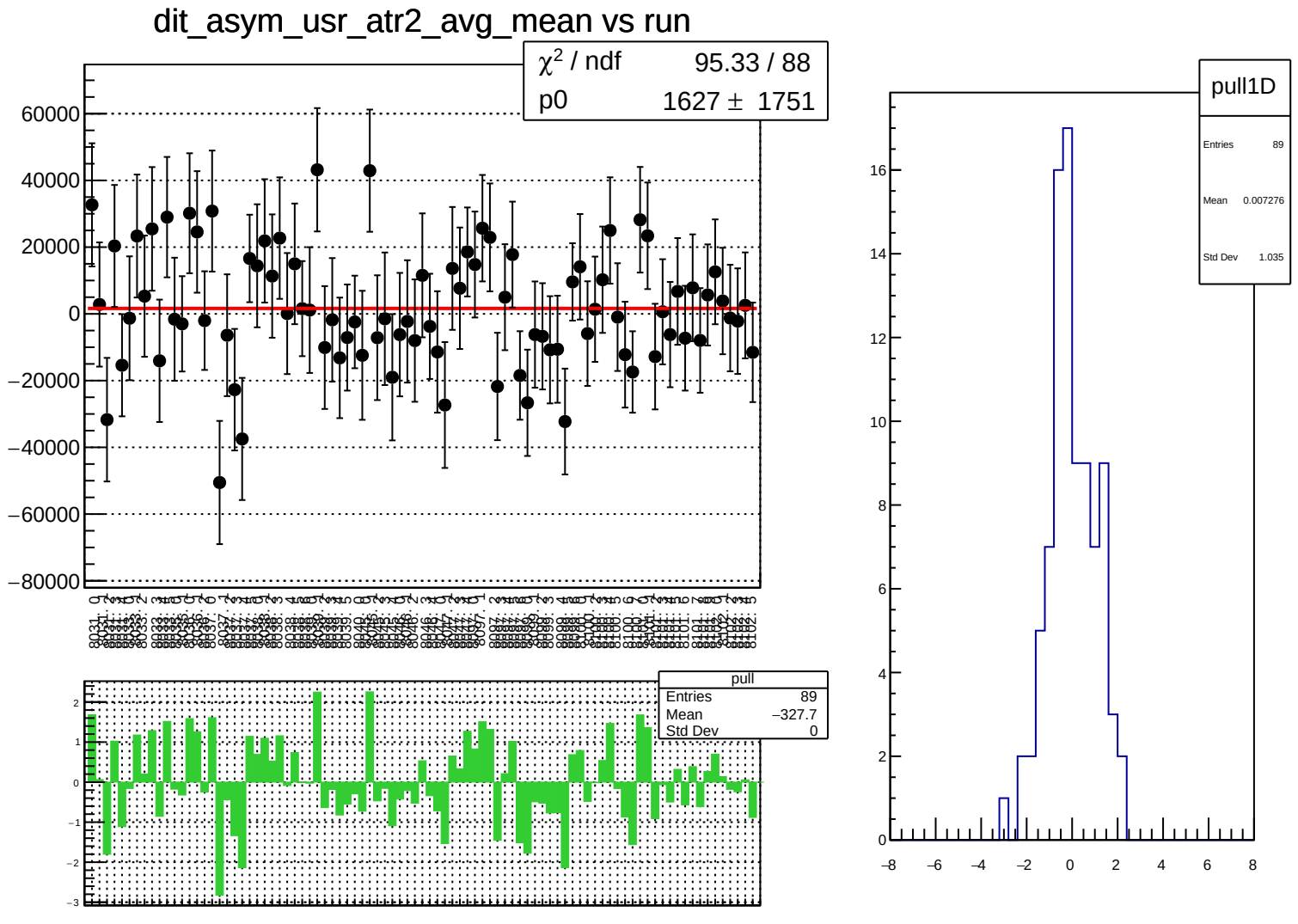

eigen_cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 104.2 / 88
p0 2051 ± 1721
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −297.3
Std Dev 0
3
2
1
0
−1
−2
−3

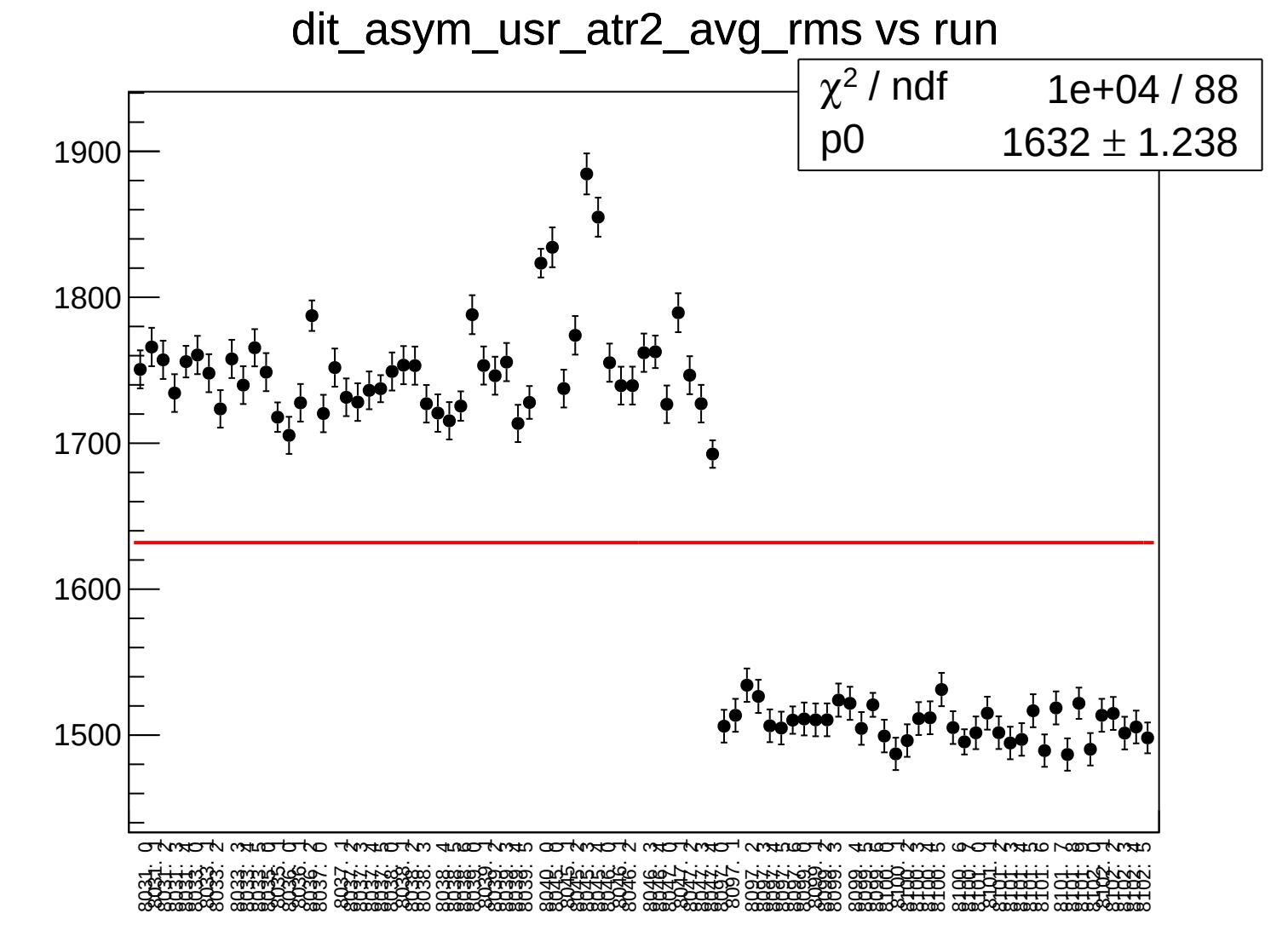

pull1D
Entries 89
Mean 0.007011
Std Dev 1.082
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

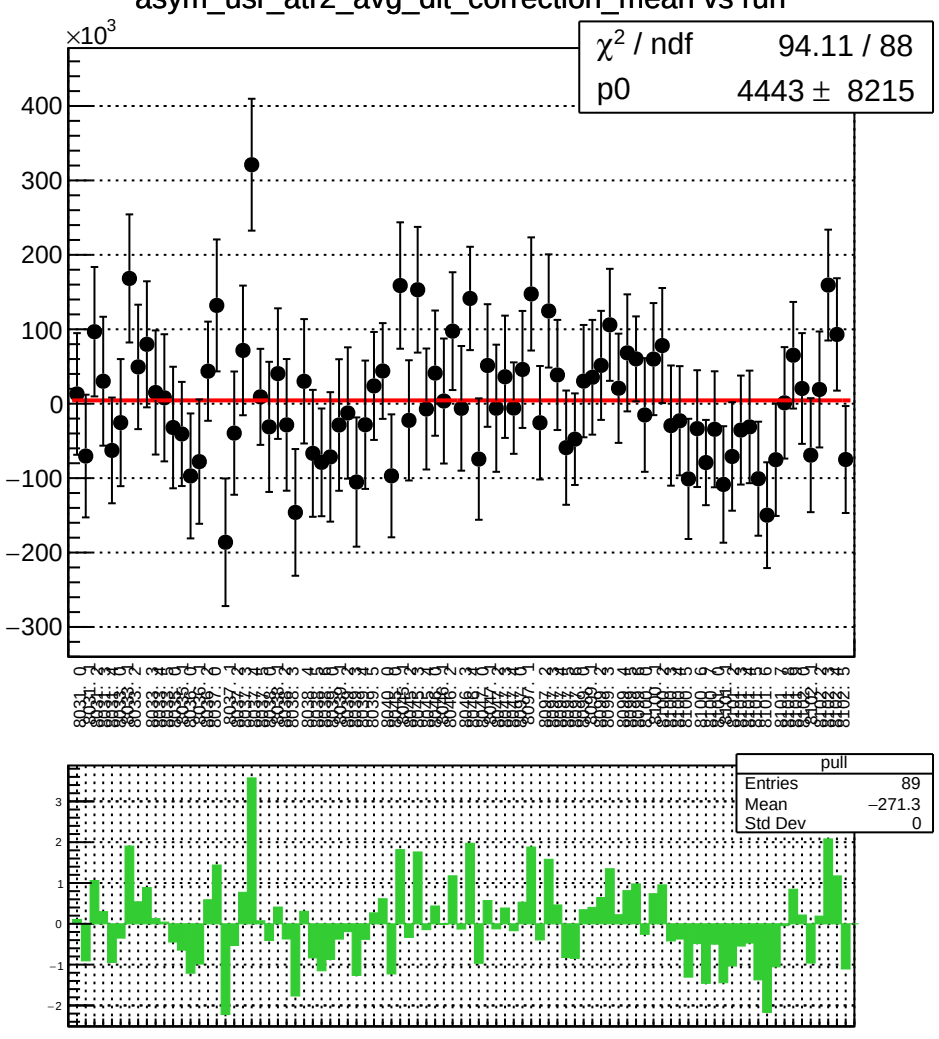

eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 7642 / 88
p0 1605 ± 1.217
1800
1750
1700
1650
1600
1550
1500
1450

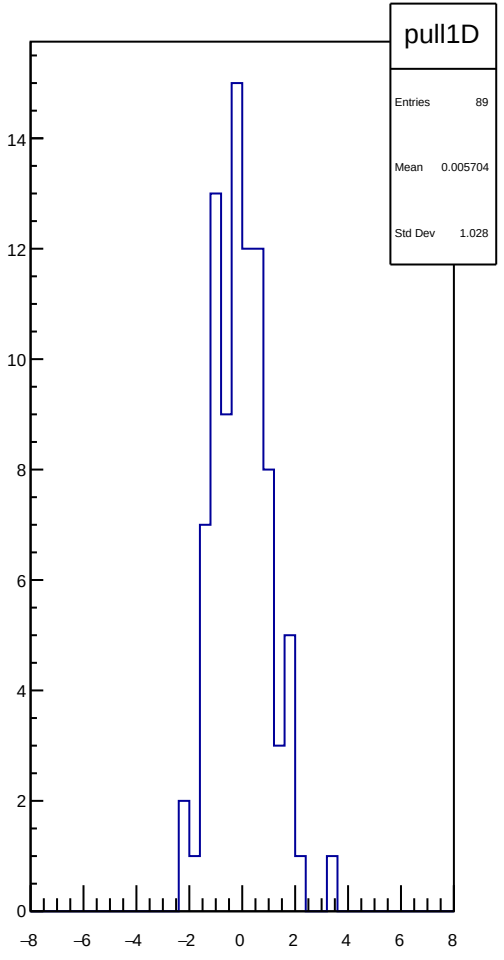

asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 94.11 / 88
p0 4594 ± 8339
400
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −186.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.007552
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

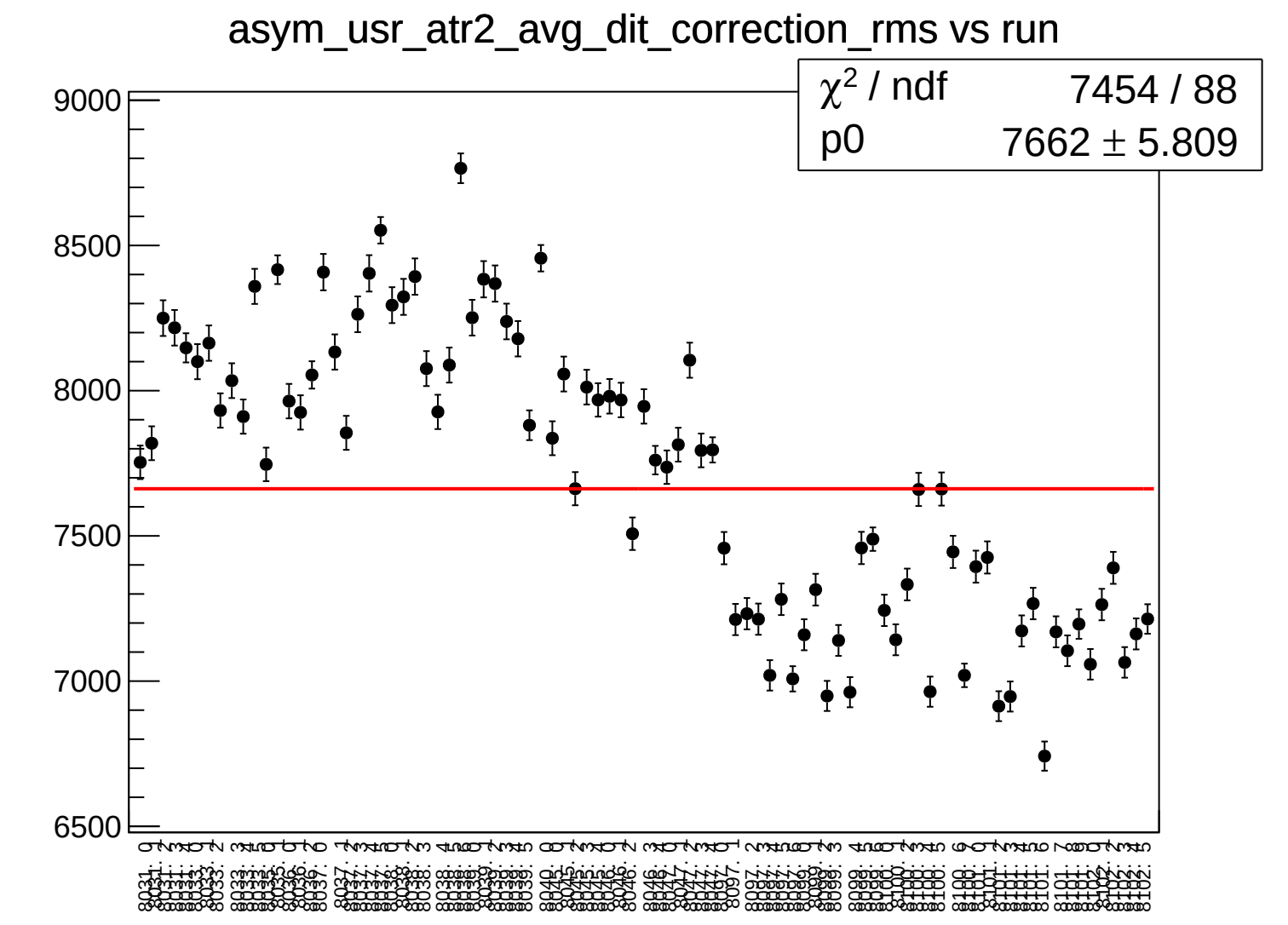

asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.12e+04 / 88
p0 7769 ± 5.896
9000
8500
8000
7500
7000
6500

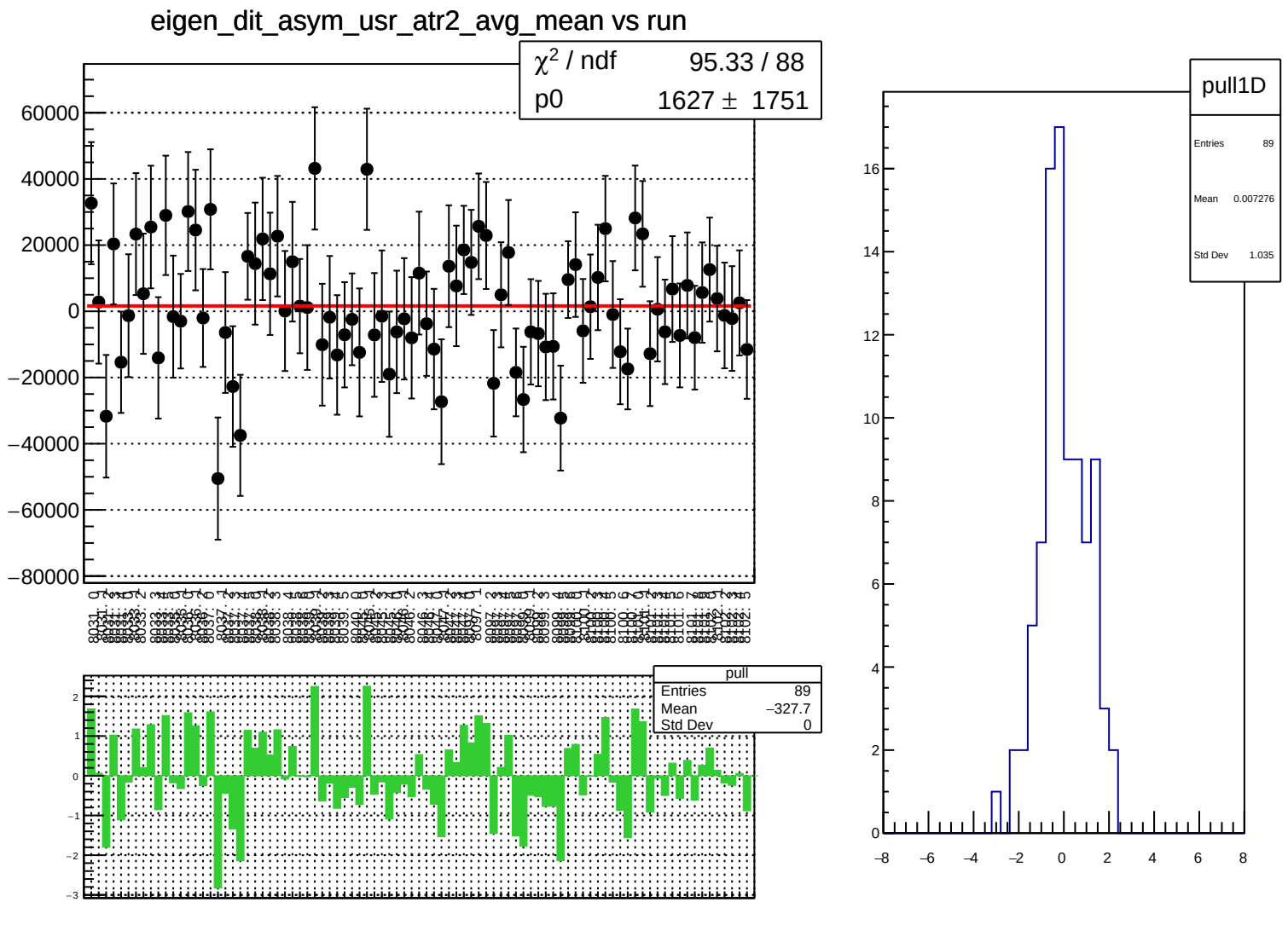

dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 95.33 / 88
p0 1627 ± 1751
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −327.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.007276
Std Dev 1.035
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

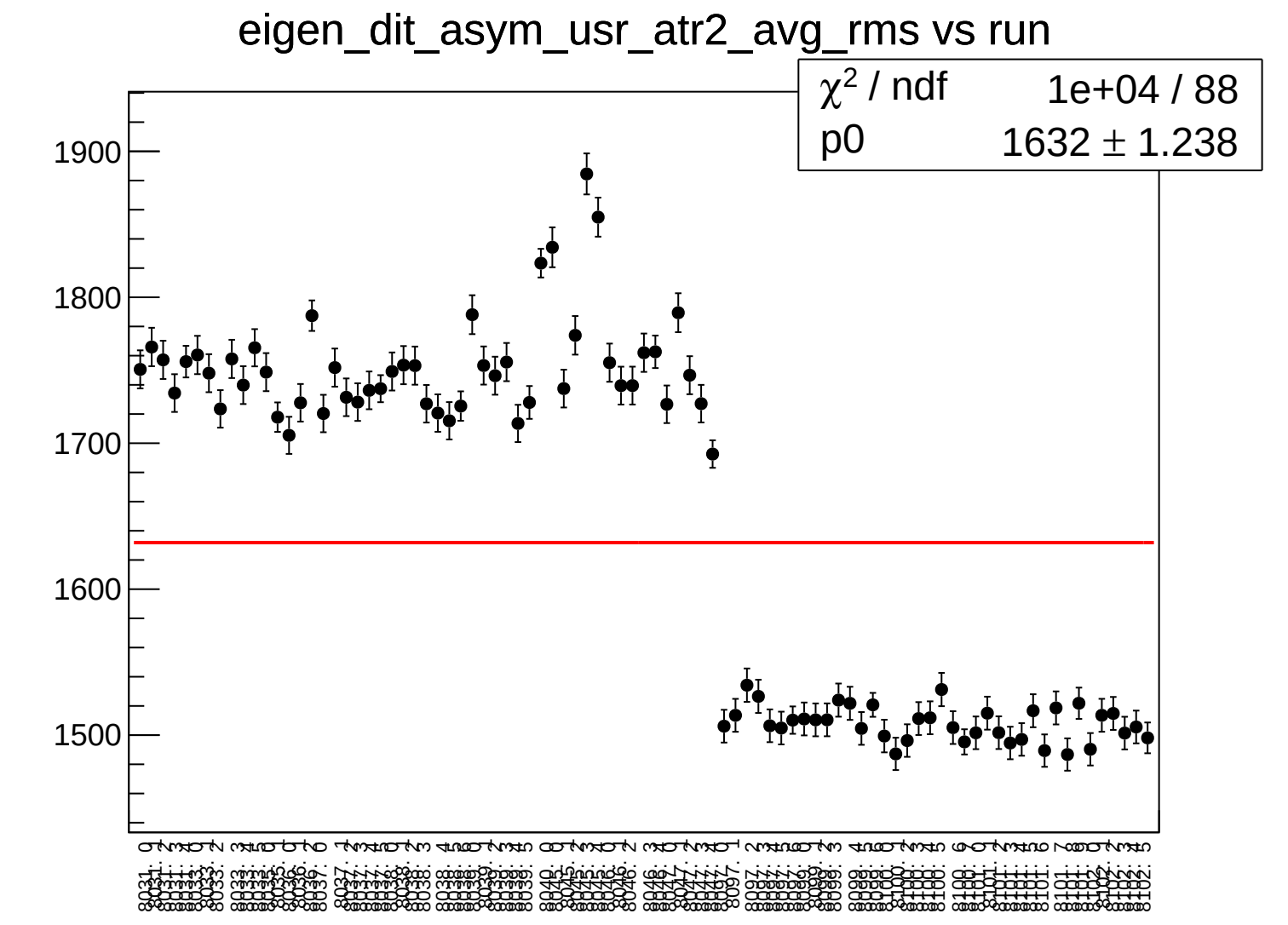

dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 1e+04 / 88
p0 1632 ± 1.238
1900
1800
1700
1600
1500

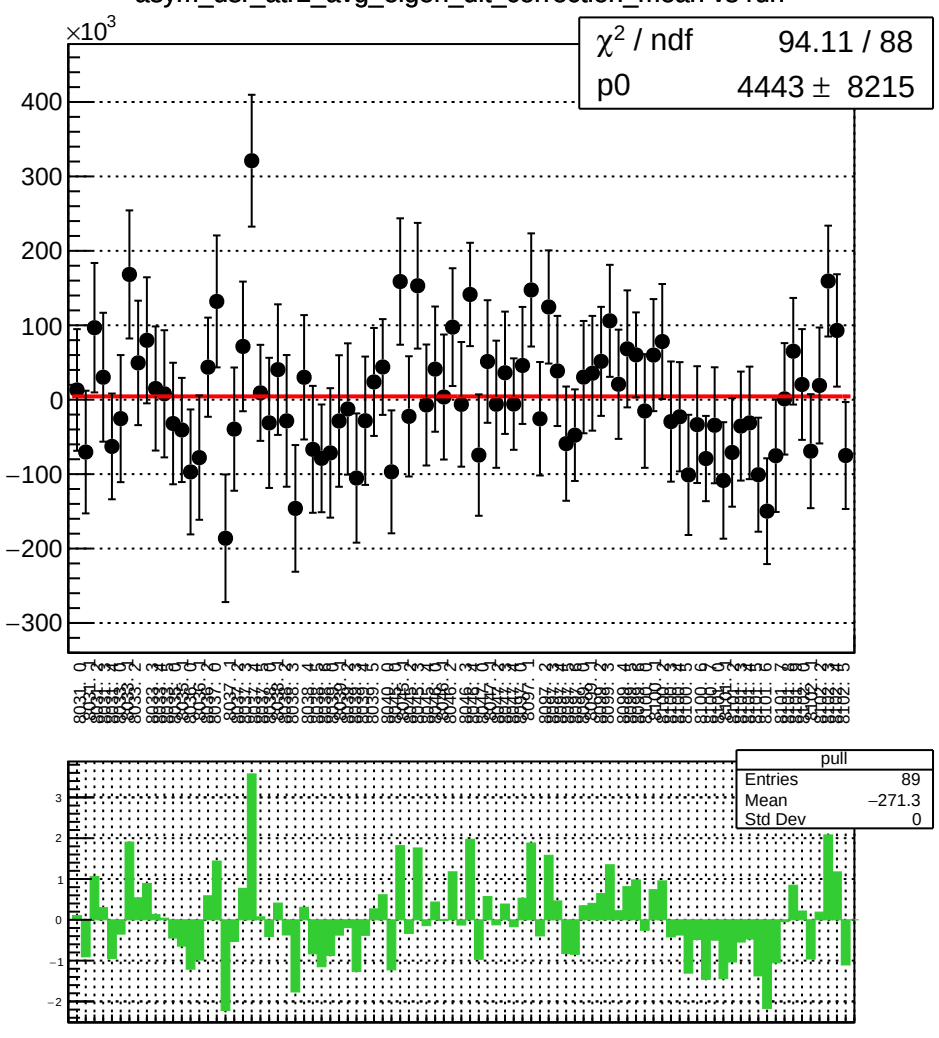

asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 94.11 / 88
p0 4443 ± 8215
pull
Entries 89
Mean −271.3
Std Dev 0

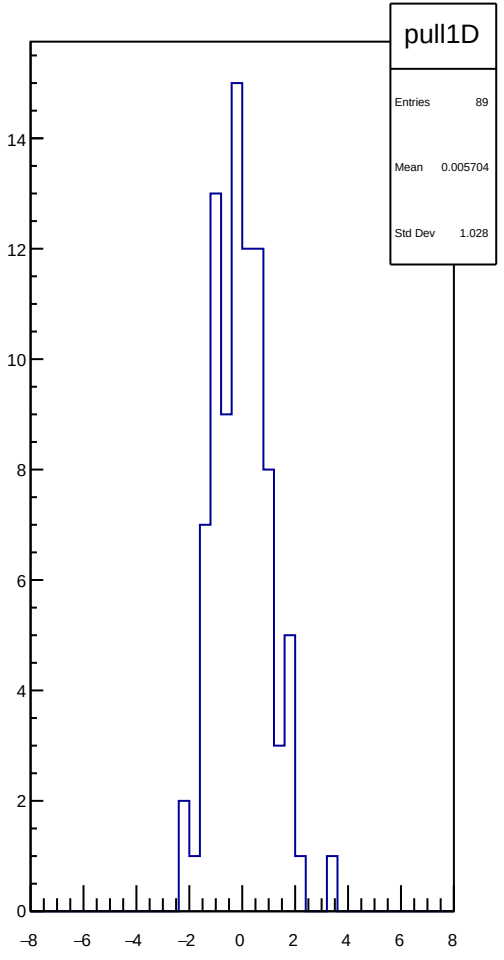

pull1D
Entries 89
Mean 0.005704
Std Dev 1.028

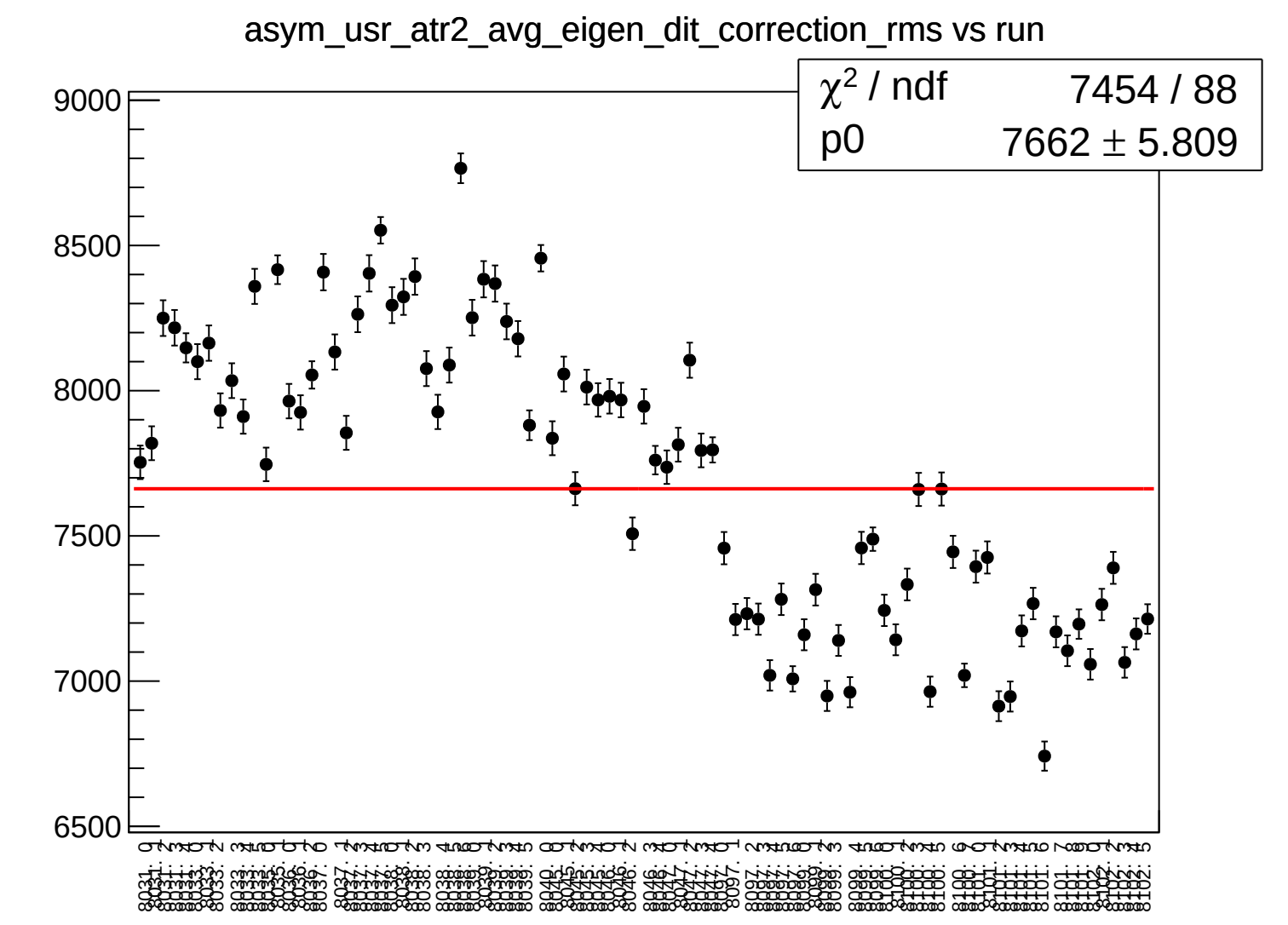

asym_usr_atr2_avg_dit_correction_rms vs run
χ² / ndf 7454 / 88
p0 7662 ± 5.809
9000
8500
8000
7500
7000
6500

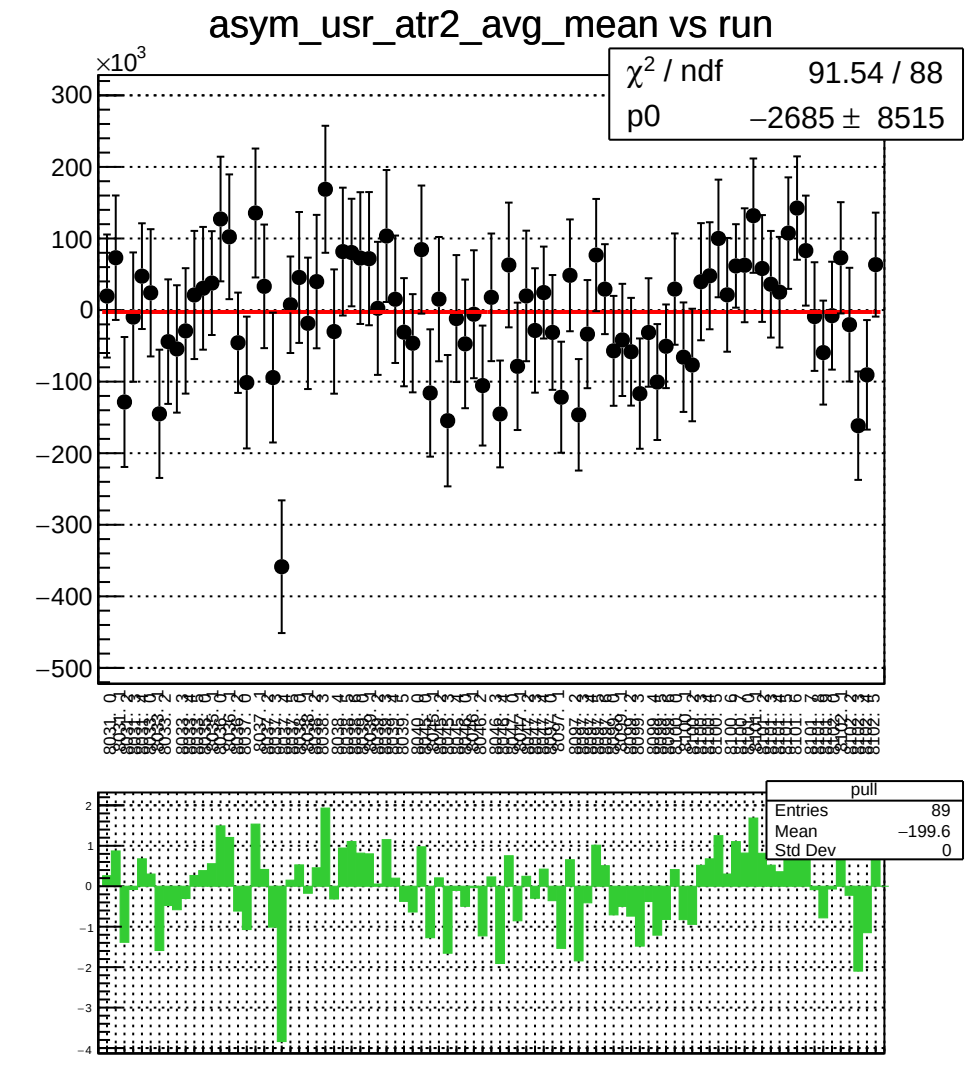

eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 95.33 / 88
p0 1627 ± 1751
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −327.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.007276
Std Dev 1.035
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

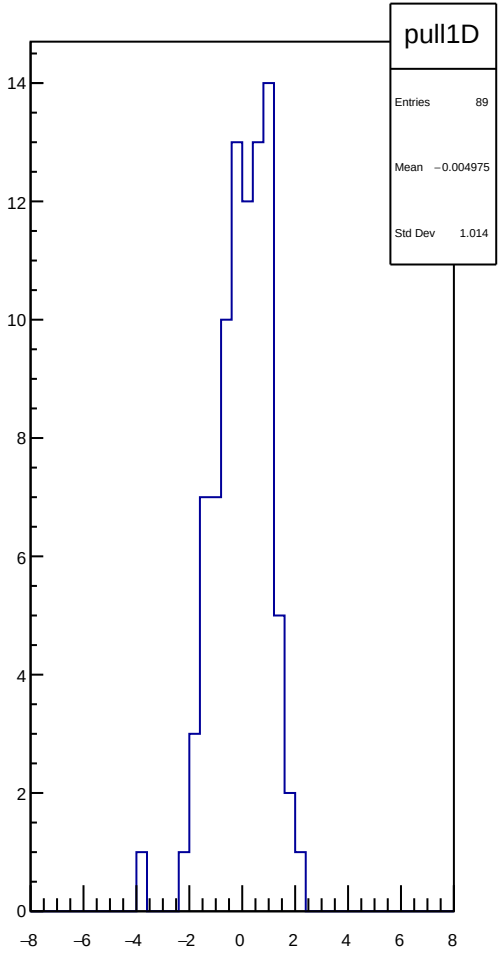

eigen_dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 1e+04 / 88
p0 1632 ± 1.238
1900
1800
1700
1600
1500

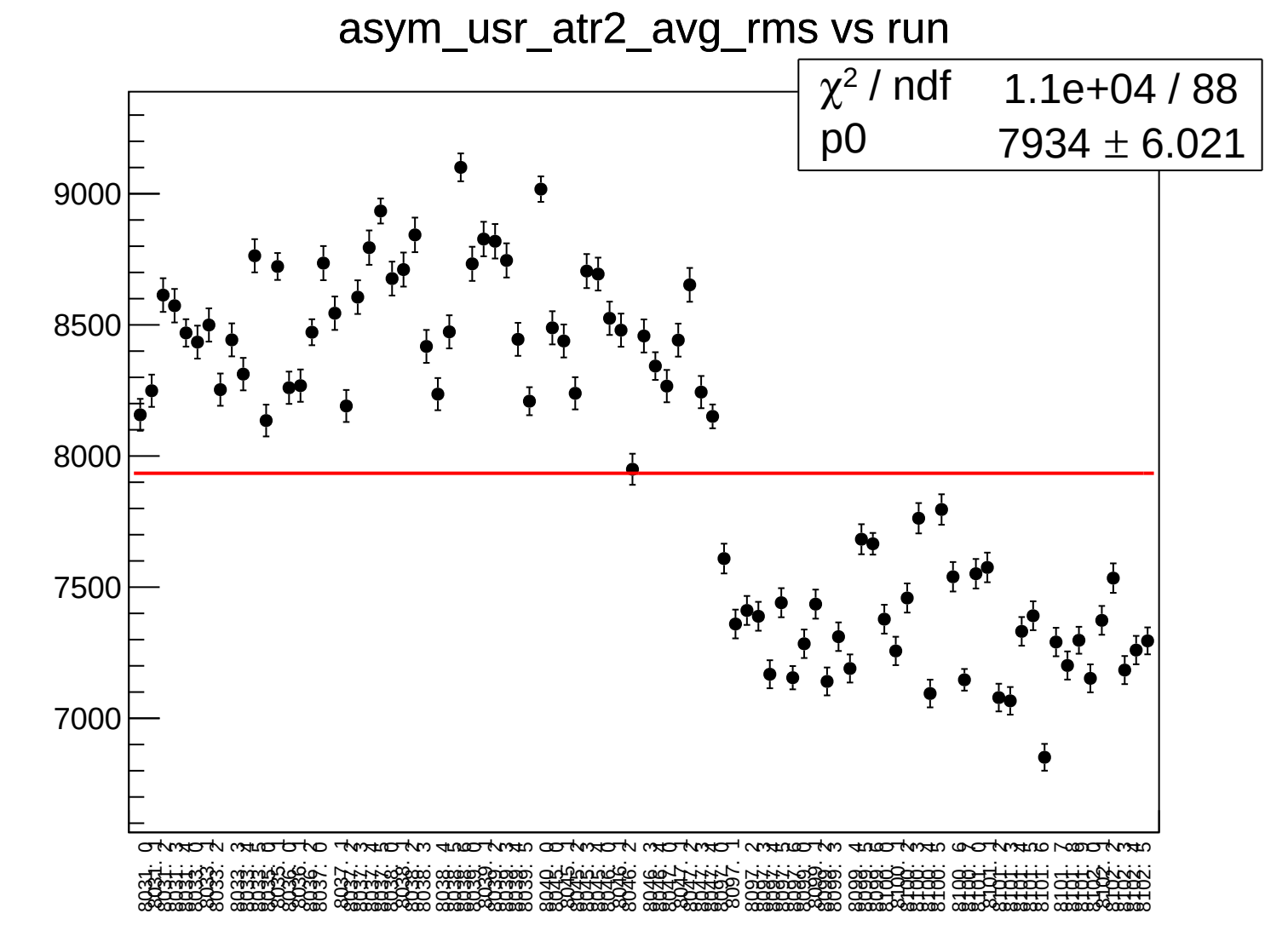

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 94.11 / 88
p0 4443 ± 8215
400
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −271.3
Std Dev 0
3
2
1
0
−1
−2

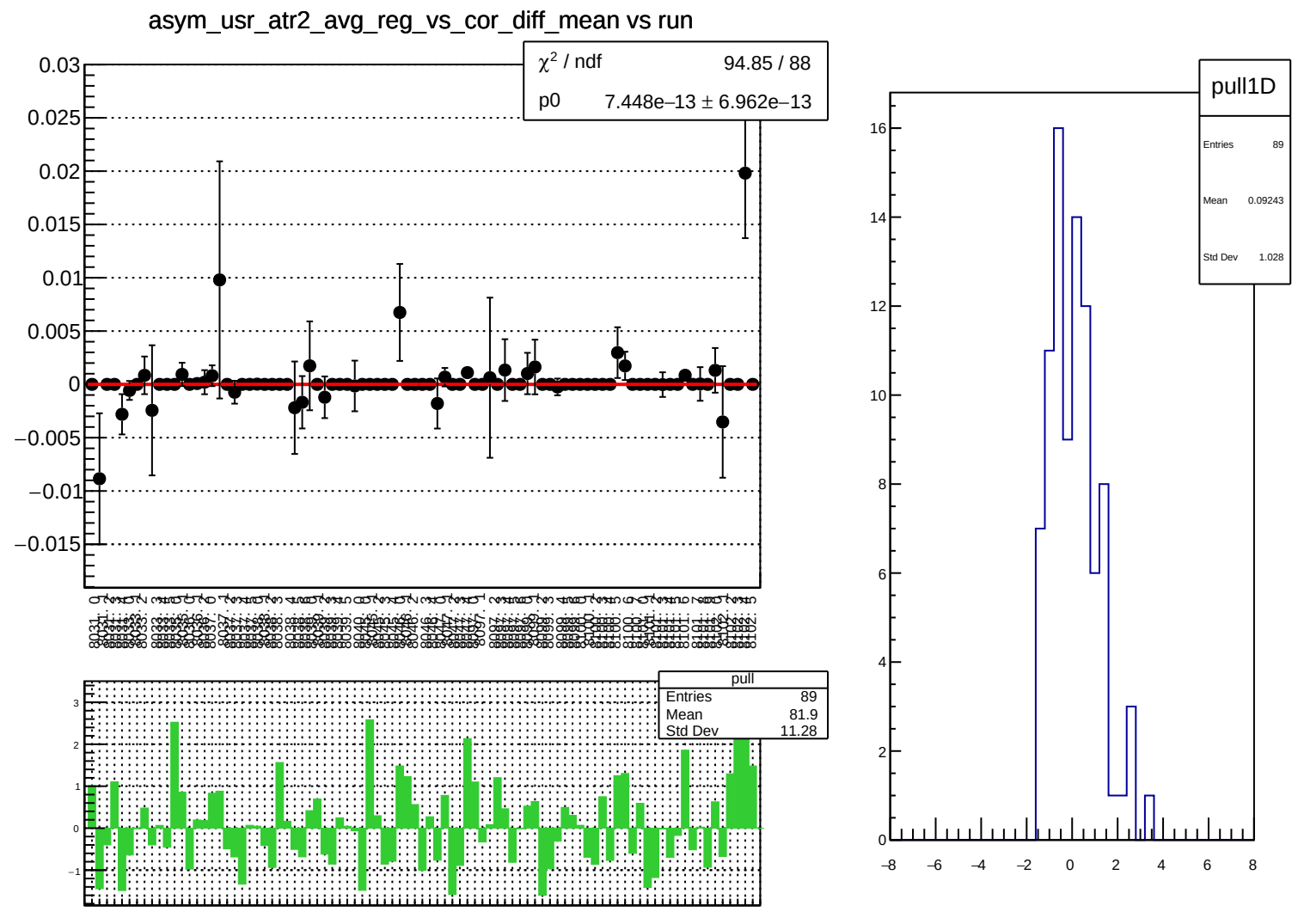

pull1D
Entries 89
Mean 0.005704
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

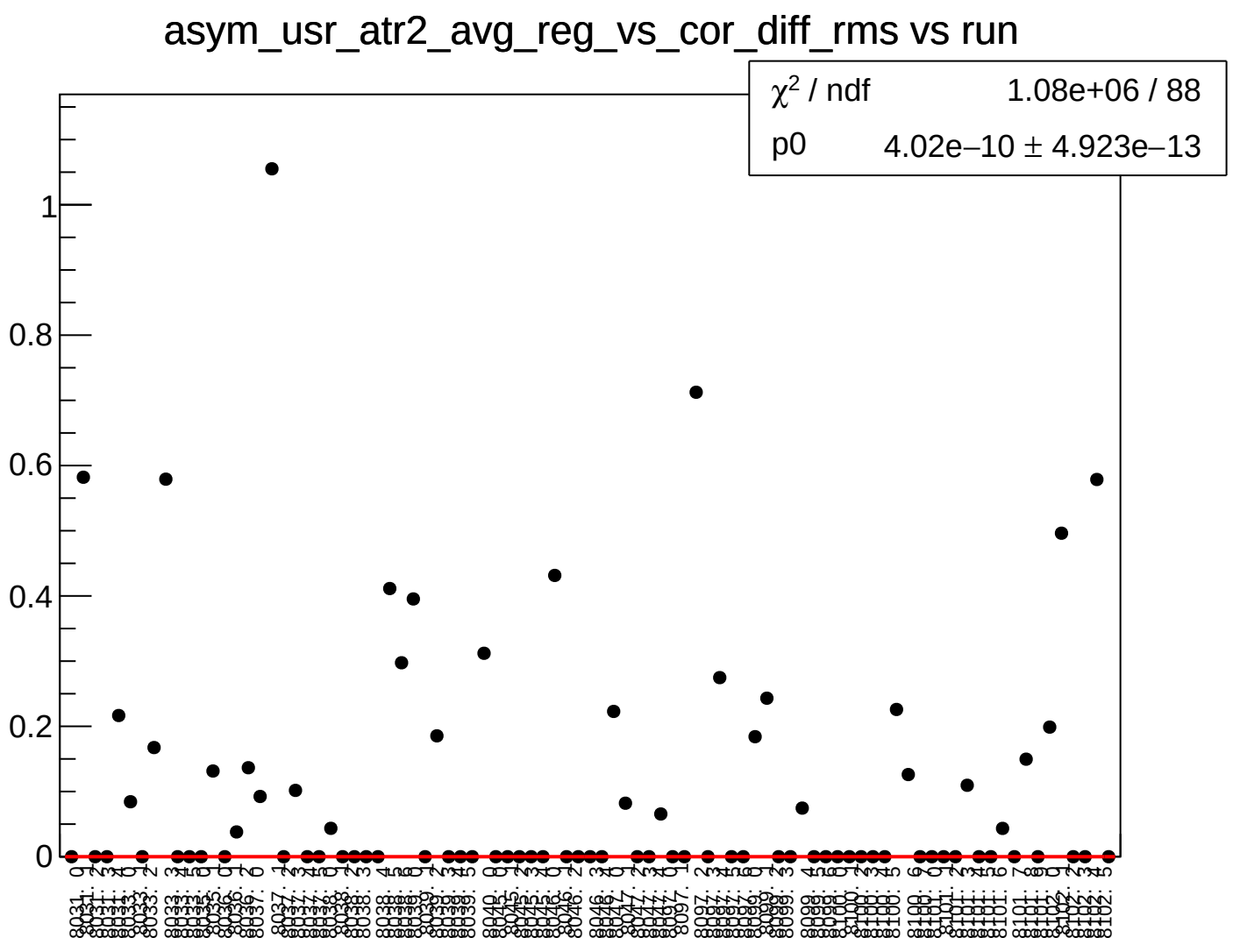

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 7454 / 88
p0 7662 ± 5.809
9000
8500
8000
7500
7000
6500

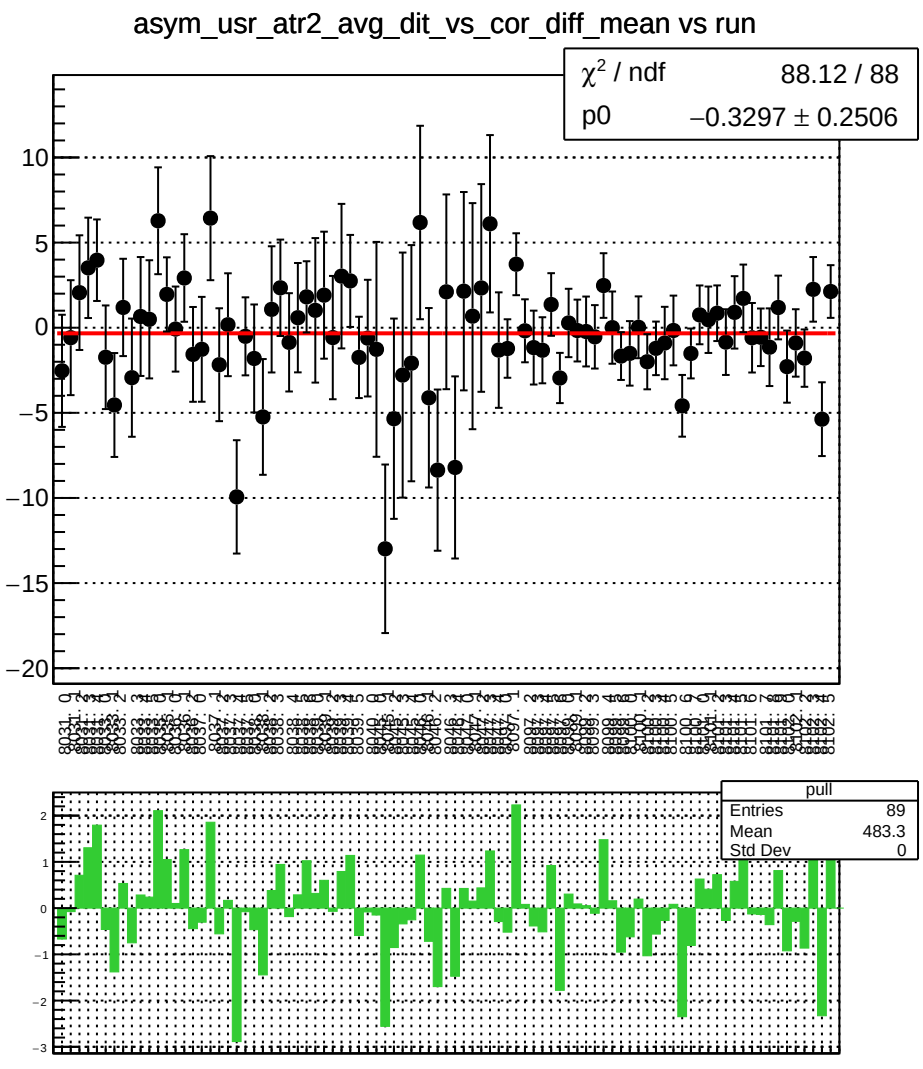

asym_usr_atr2_avg_mean vs run
×10^3
χ² / ndf 91.54 / 88
p0 −2685 ± 8515
pull
Entries 89
Mean −199.6
Std Dev 0

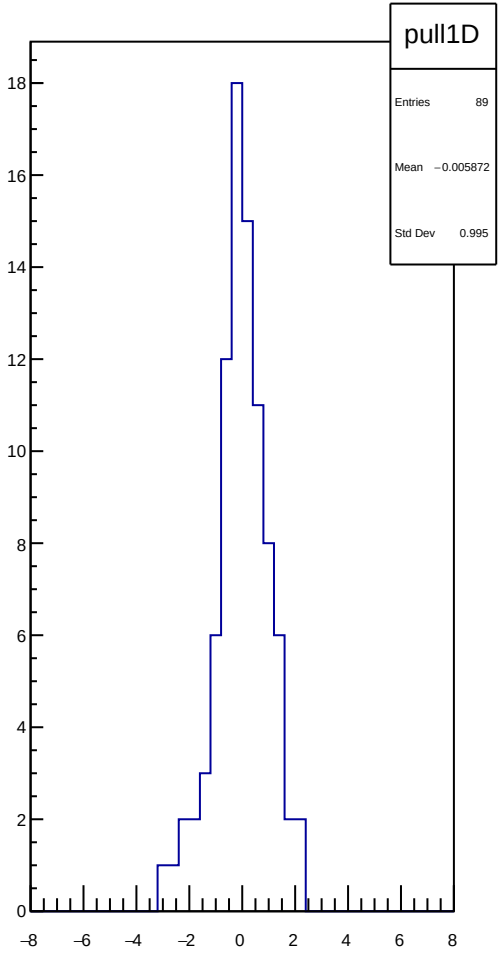

pull1D
Entries 89
Mean −0.004975
Std Dev 1.014

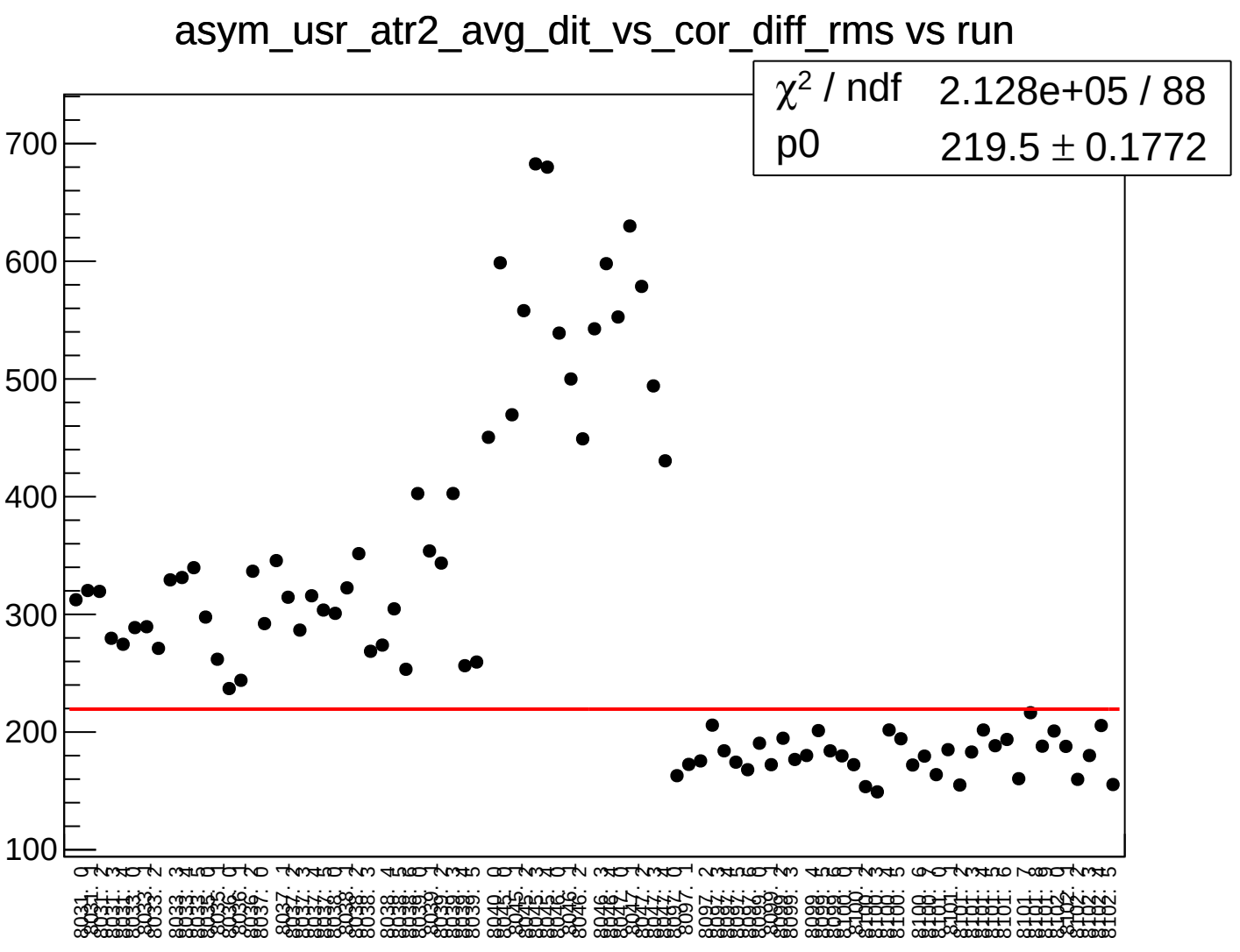

asym_usr_atr2_avg_rms vs run
χ² / ndf 1.1e+04 / 88
p0 7934 ± 6.021
9000
8500
8000
7500
7000

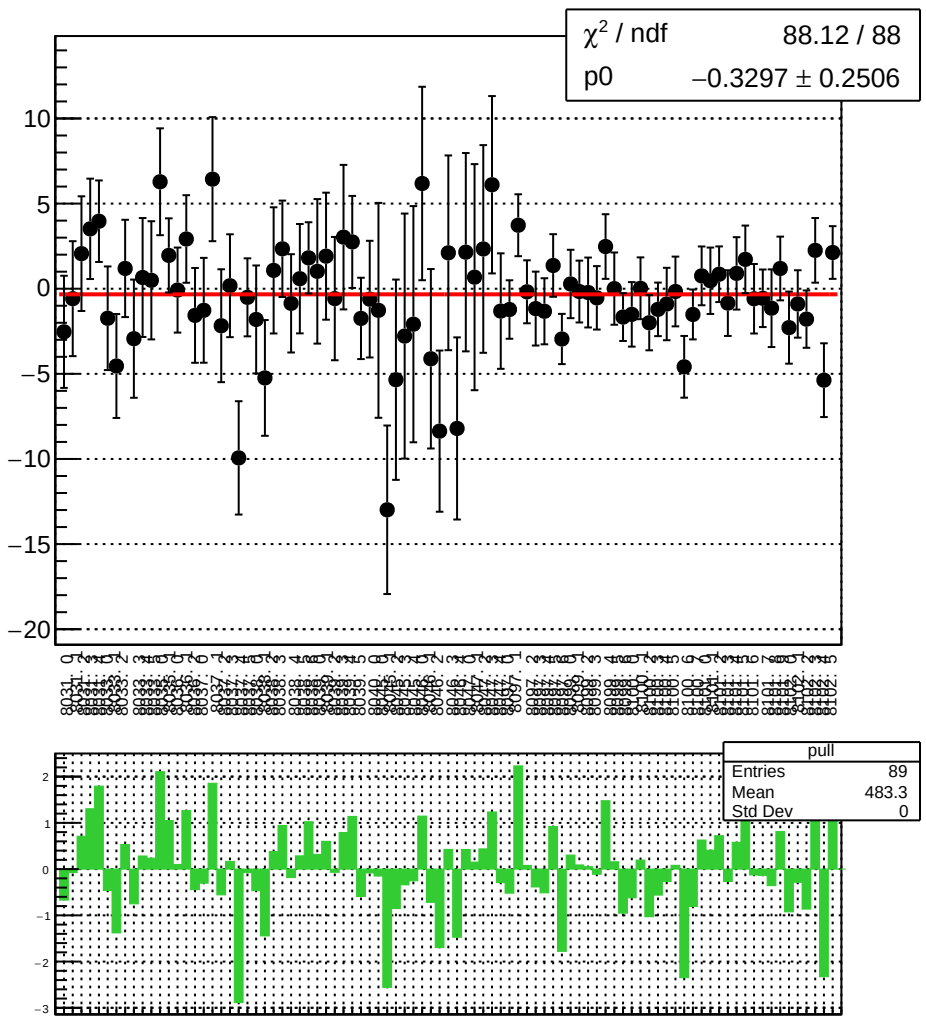

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 94.85 / 88
p0 7.448e−13 ± 6.962e−13
0.03
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 89
Mean 81.9
Std Dev 11.28
3
2
1
0
−1
pull1D
Entries 89
Mean 0.09243
Std Dev 1.028
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

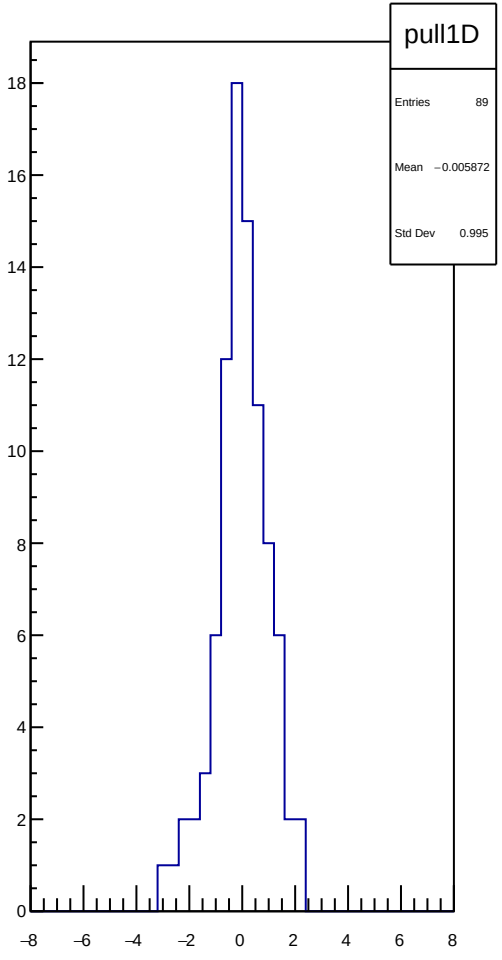

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.08e+06 / 88
p0 4.02e−10 ± 4.923e−13
1
0.8
0.6
0.4
0.2
0

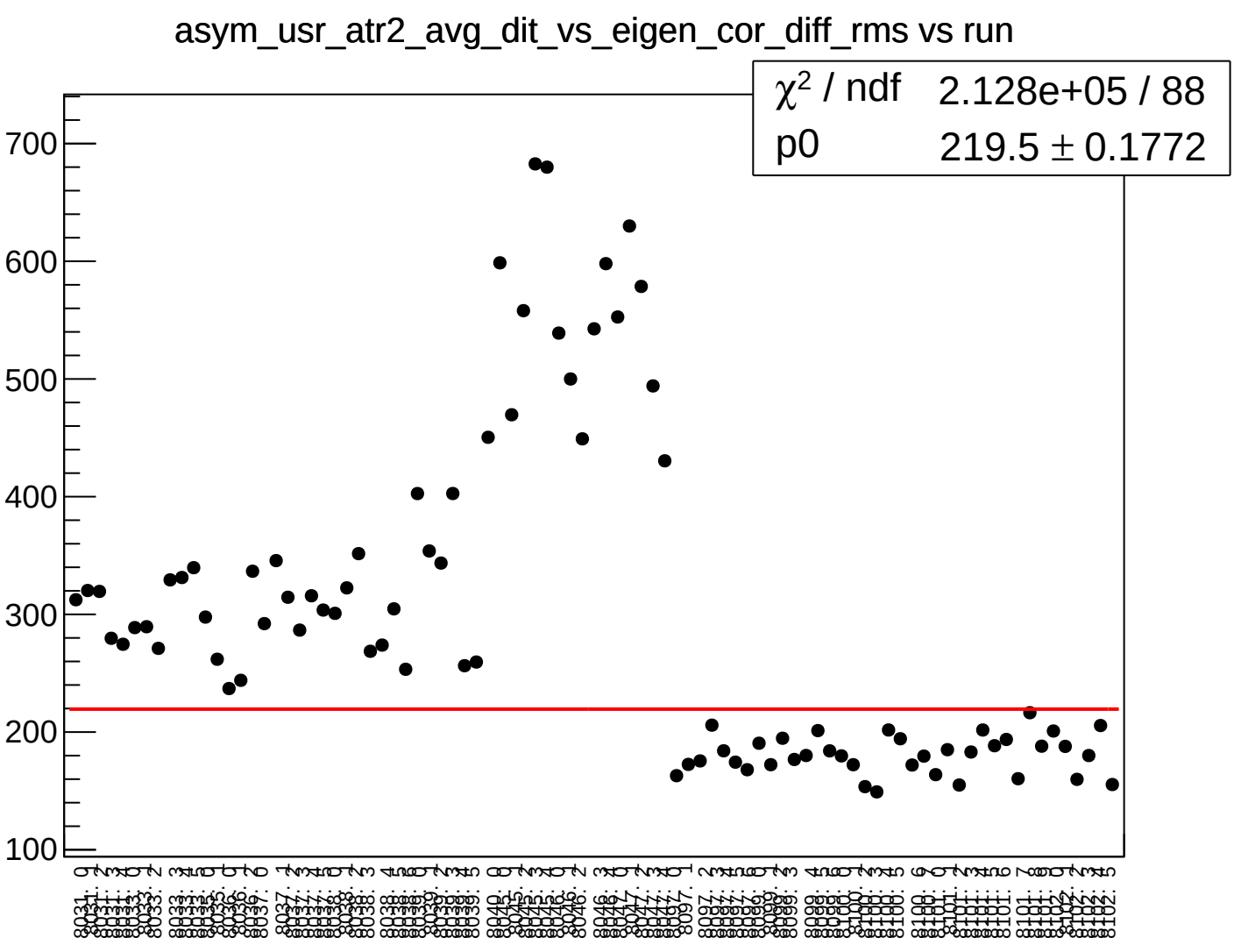

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 88.12 / 88
p0 −0.3297 ± 0.2506
pull
Entries 89
Mean 483.3
Std Dev 0

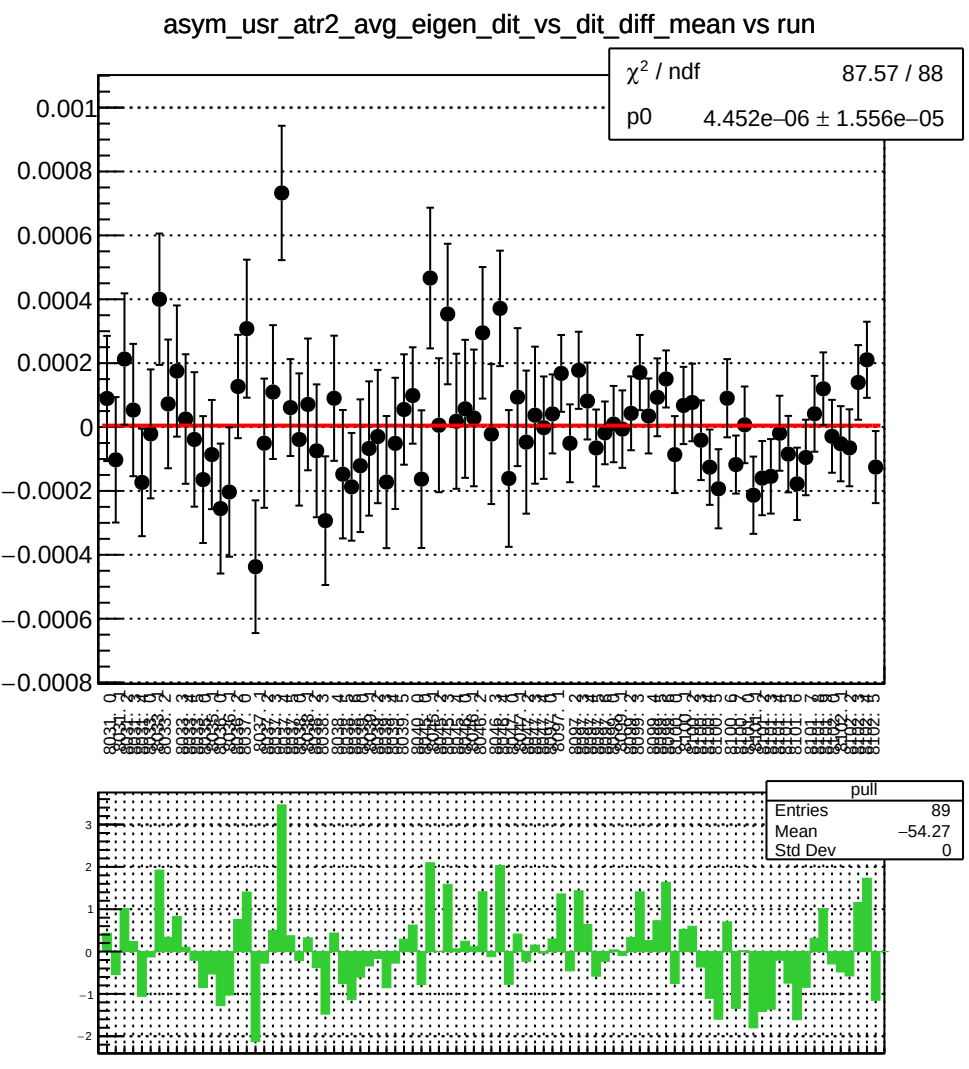

pull1D
Entries 89
Mean −0.005872
Std Dev 0.995

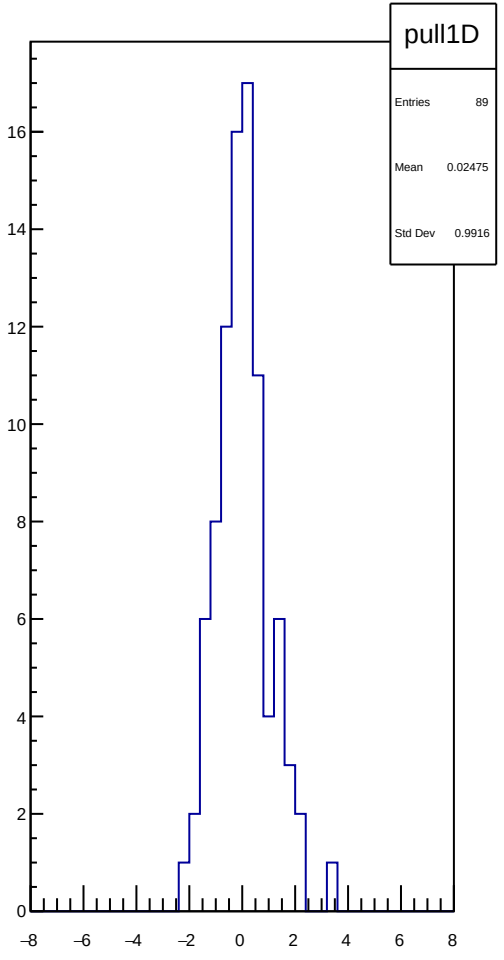

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.128e+05 / 88
p0 219.5 ± 0.1772
700
600
500
400
300
200
100

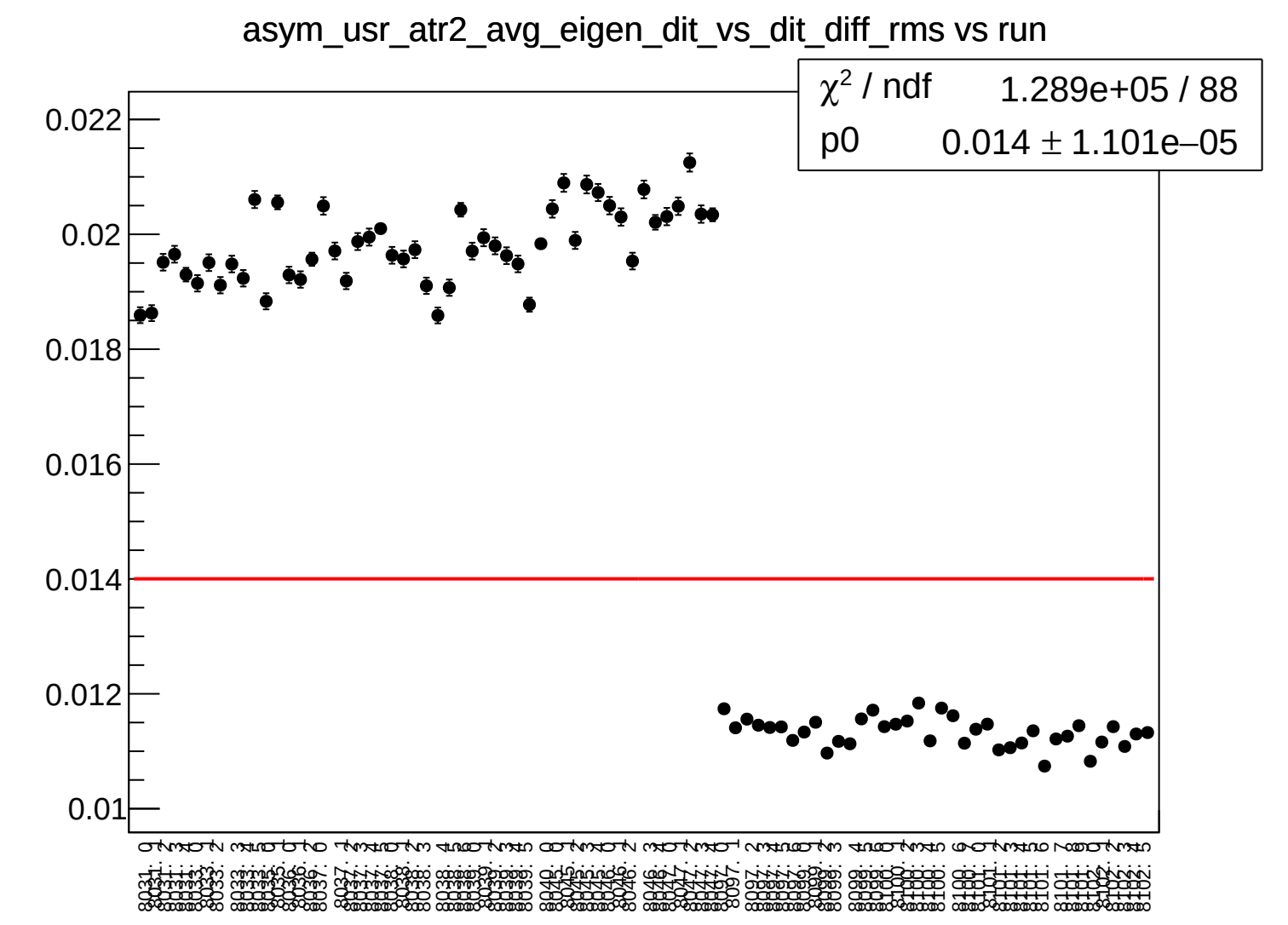

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.12 / 88
p0 −0.3297 ± 0.2506
pull
Entries 89
Mean 483.3
Std Dev 0

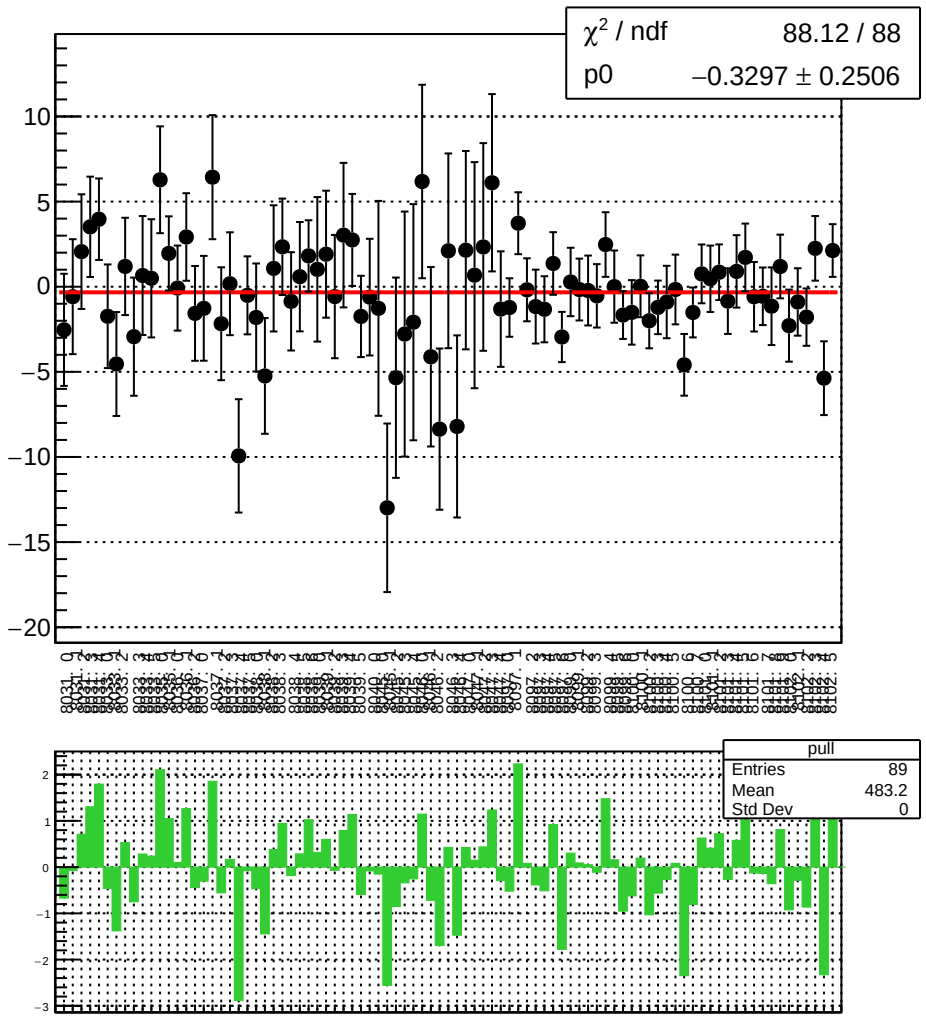

pull1D
Entries 89
Mean −0.005872
Std Dev 0.995

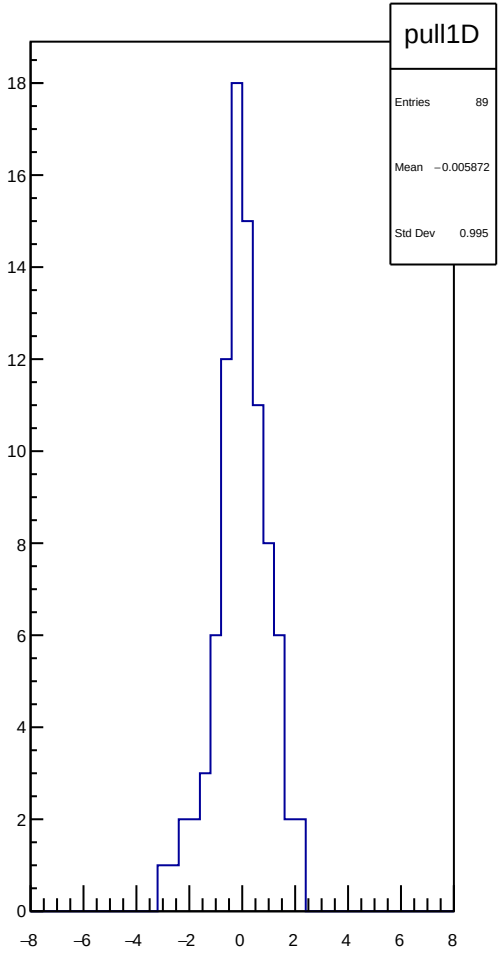

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.128e+05 / 88
p0 219.5 ± 0.1772
700
600
500
400
300
200
100

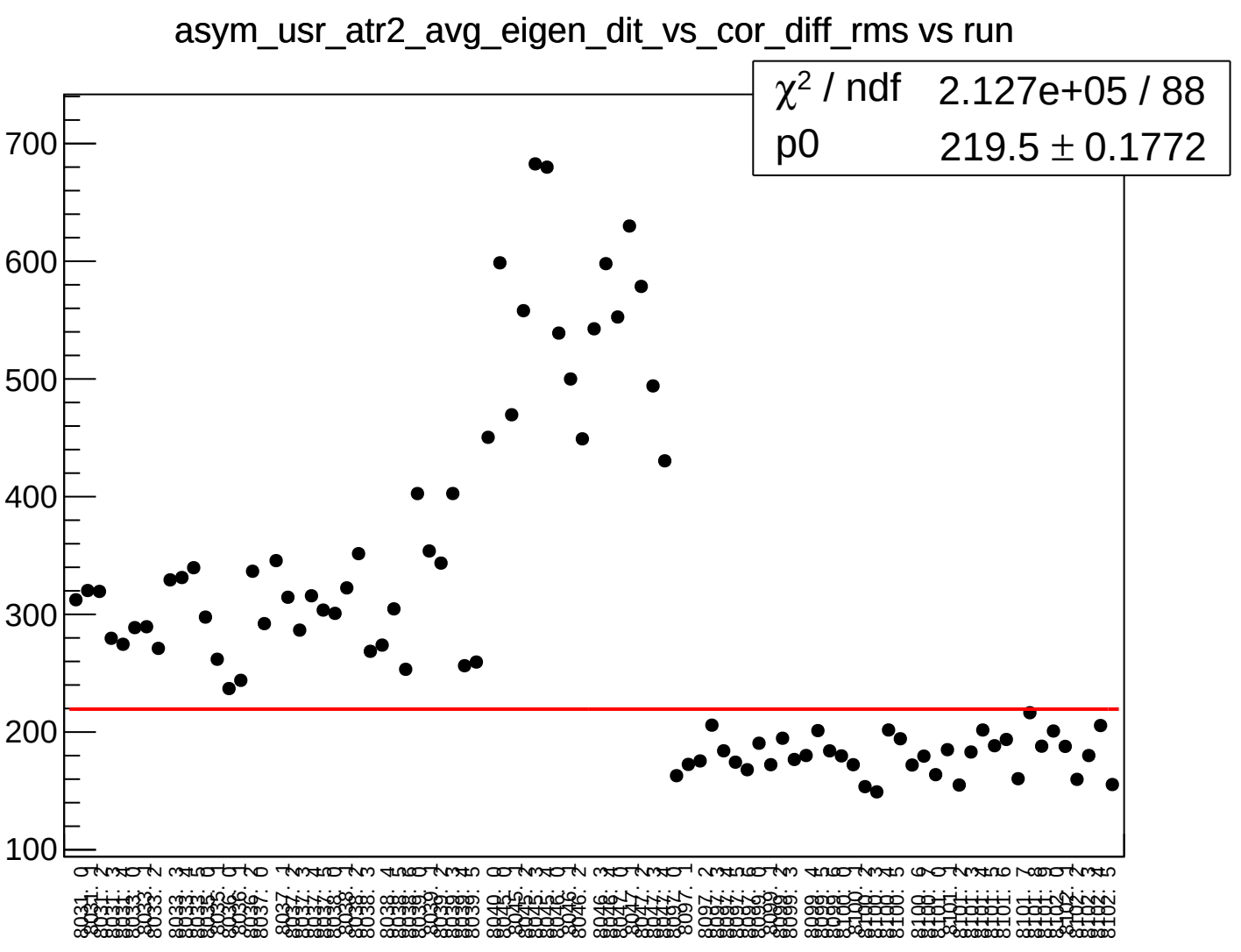

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 87.57 / 88
p0 4.452e−06 ± 1.556e−05
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 89
Mean −54.27
Std Dev 0
3
2
1
0
−1
−2

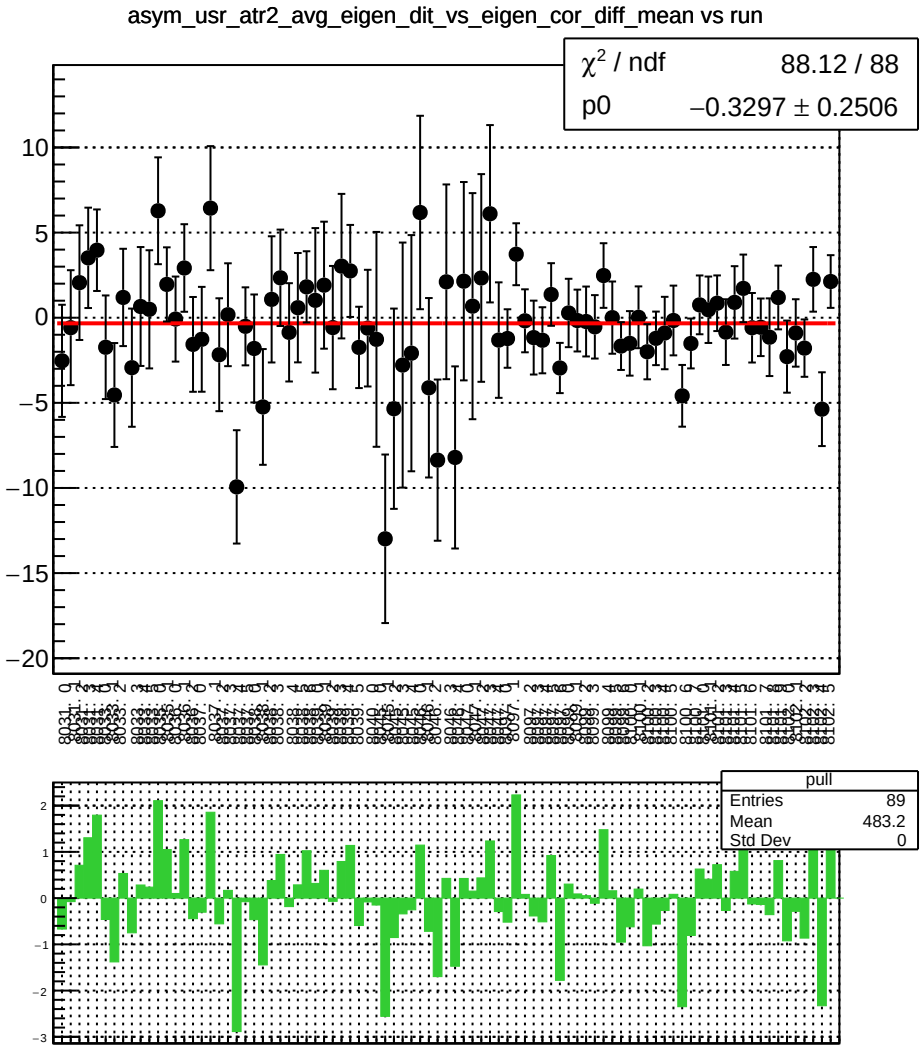

pull1D
Entries 89
Mean 0.02475
Std Dev 0.9916
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

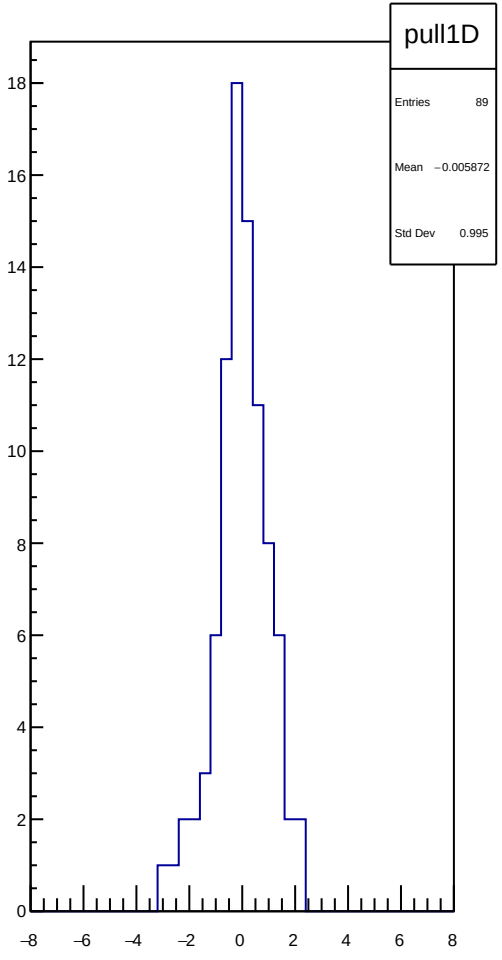

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.289e+05 / 88
p0 0.014 ± 1.101e−05
0.022
0.02
0.018
0.016
0.014
0.012
0.01

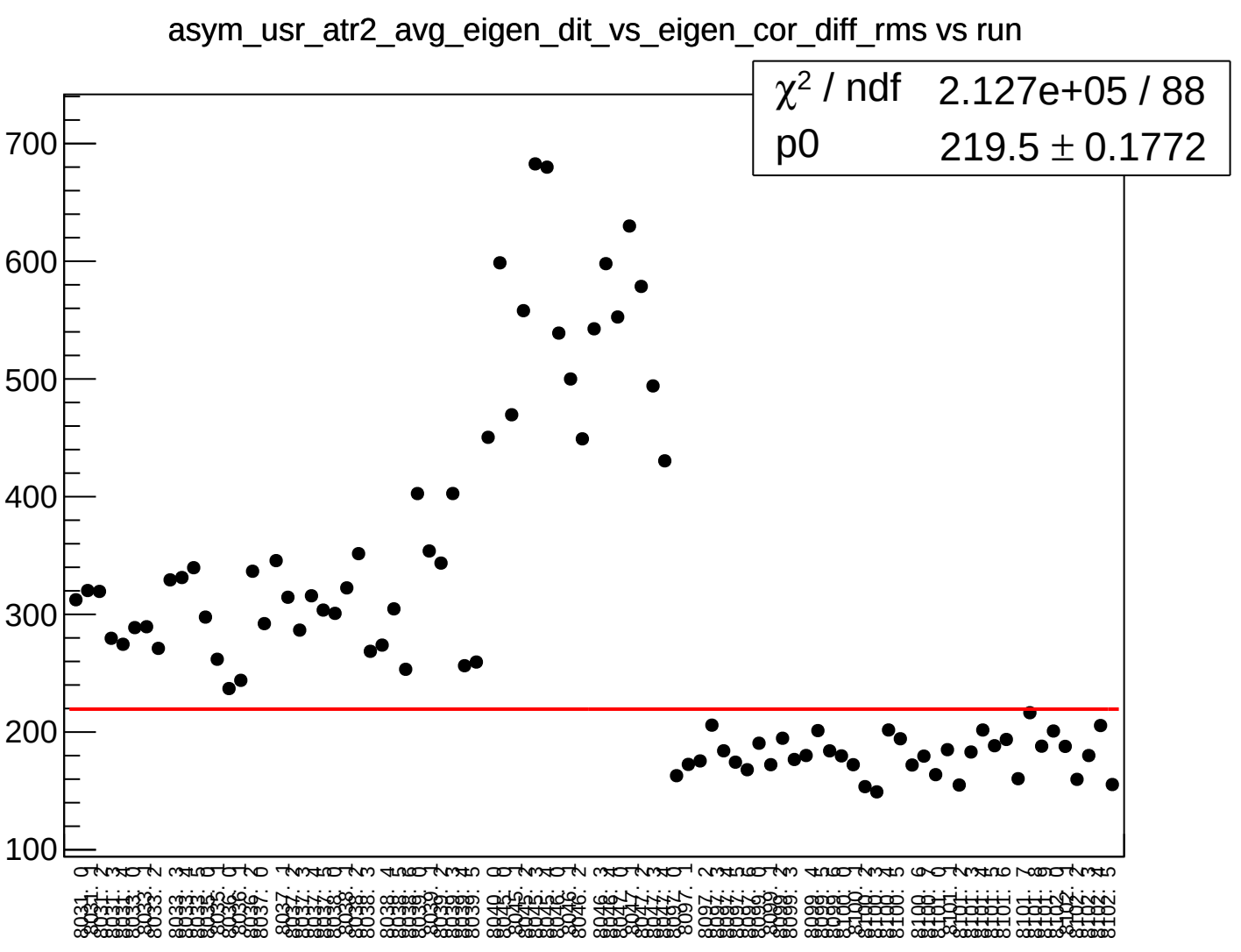

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.12 / 88
p0 −0.3297 ± 0.2506
pull
Entries 89
Mean 483.2
Std Dev 0

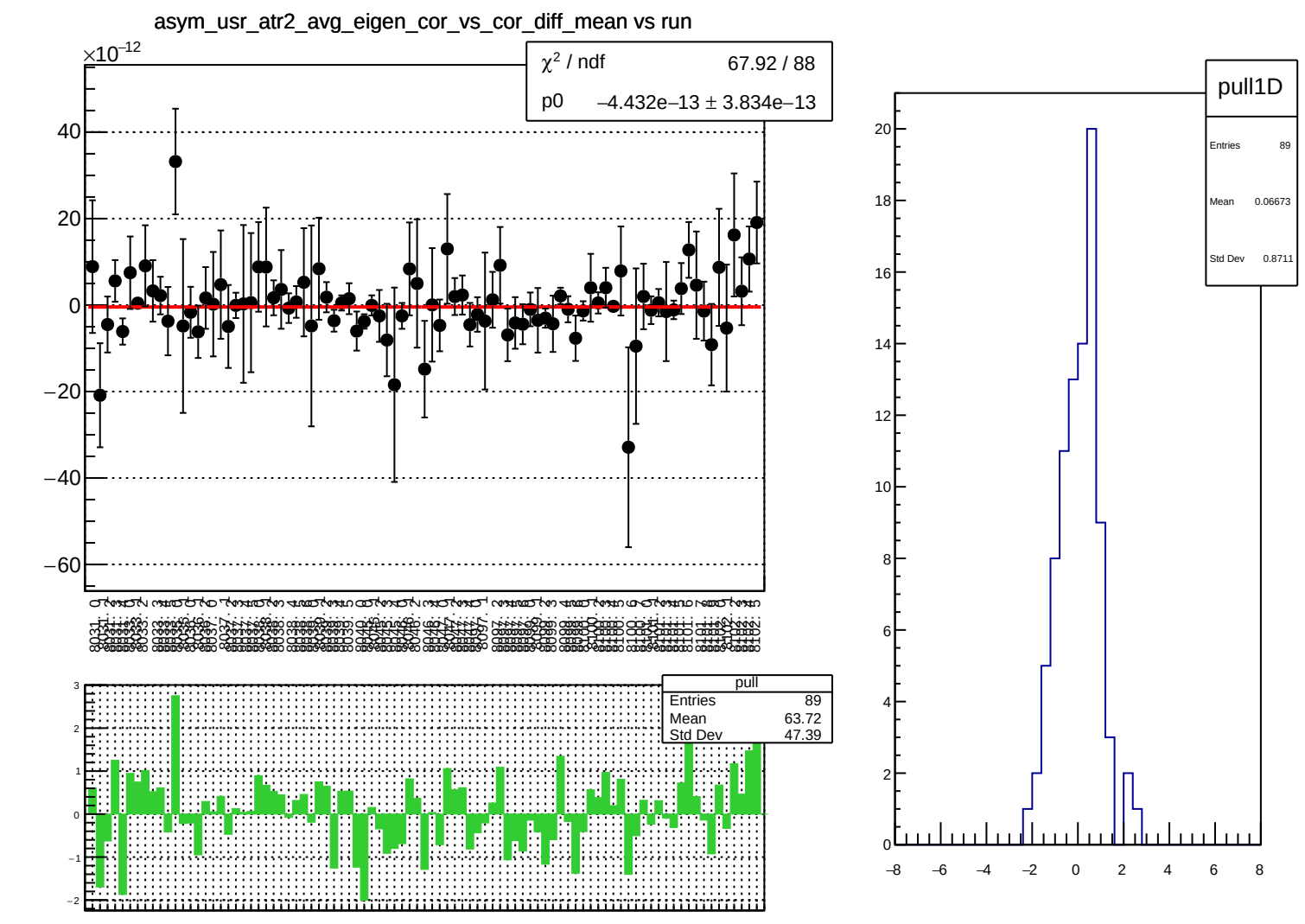

pull1D
Entries 89
Mean −0.005872
Std Dev 0.995

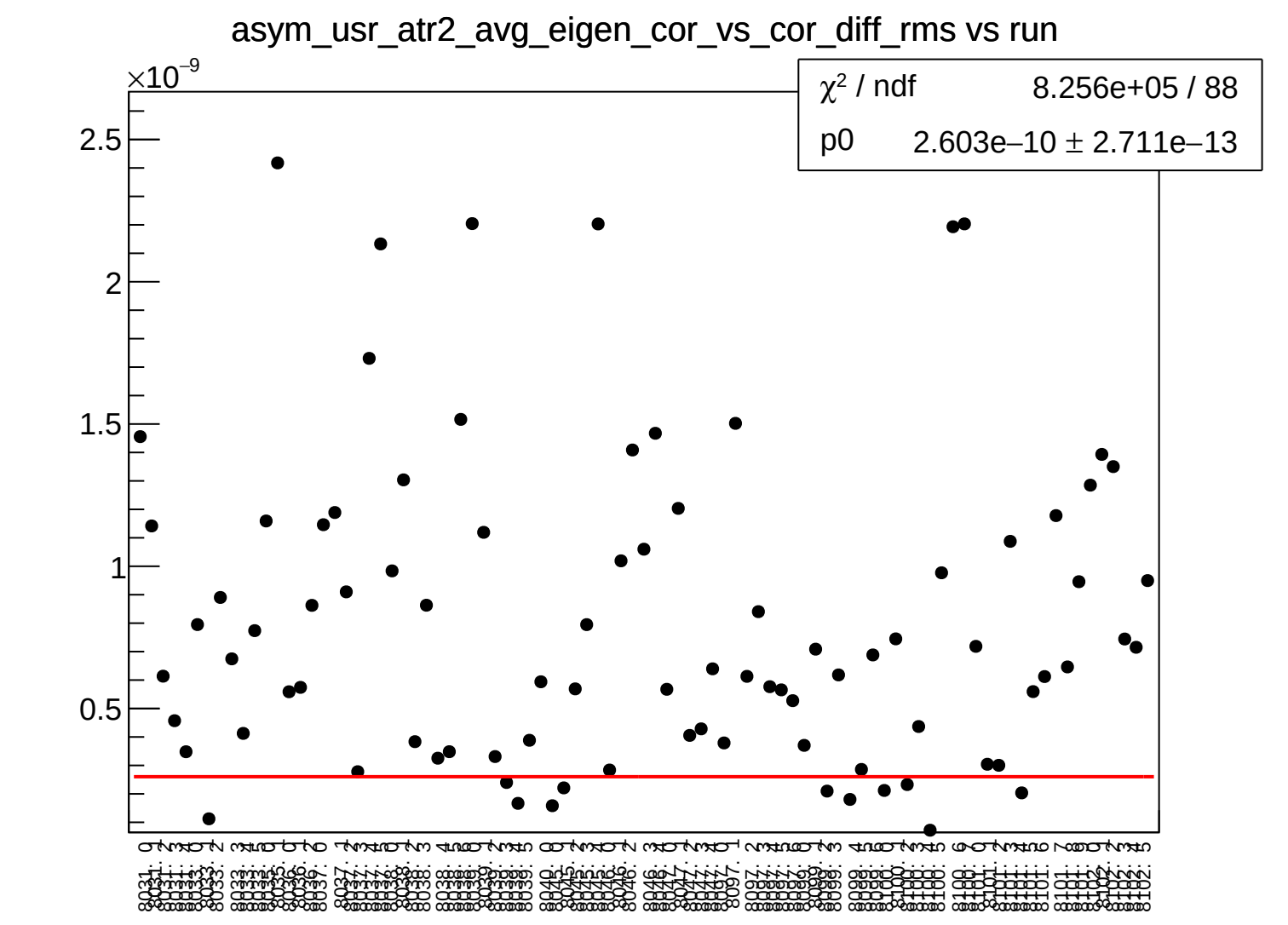

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.127e+05 / 88
p0 219.5 ± 0.1772
700
600
500
400
300
200
100

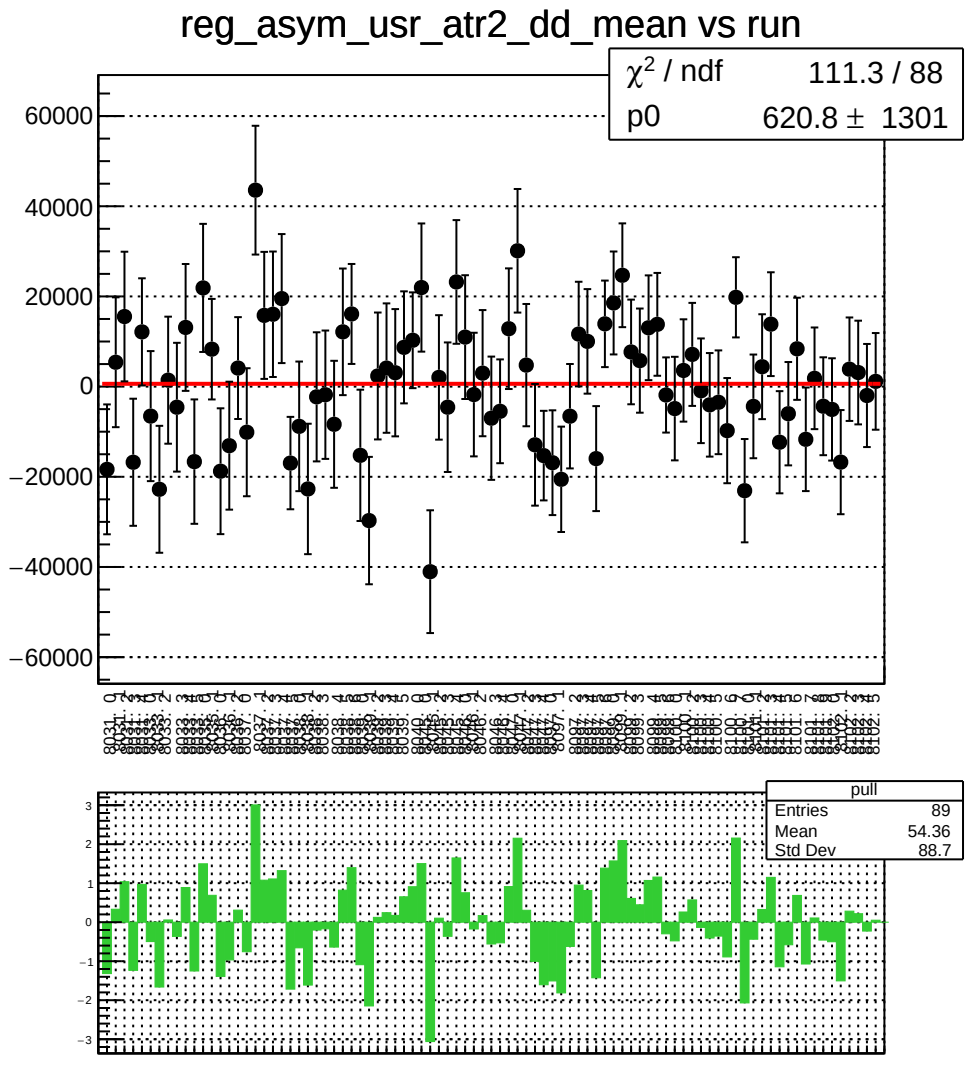

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.12 / 88
p0 −0.3297 ± 0.2506
pull
Entries 89
Mean 483.2
Std Dev 0

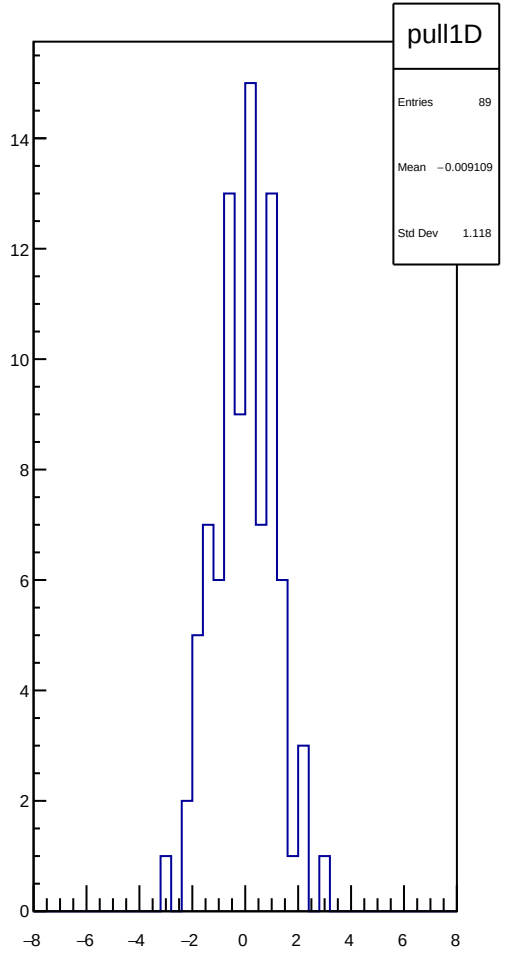

pull1D
Entries 89
Mean −0.005872
Std Dev 0.995

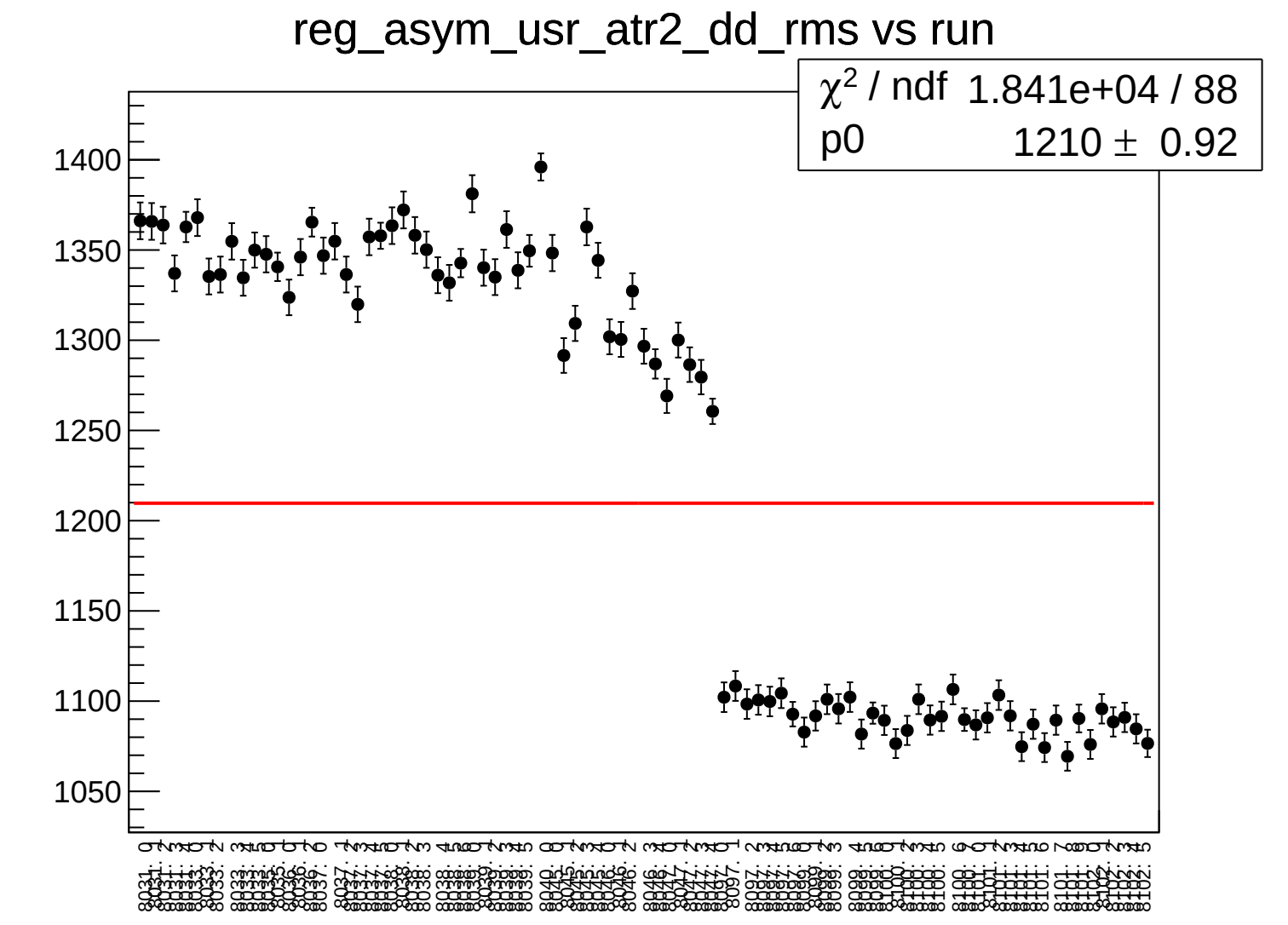

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.127e+05 / 88
p0 219.5 ± 0.1772
700
600
500
400
300
200
100

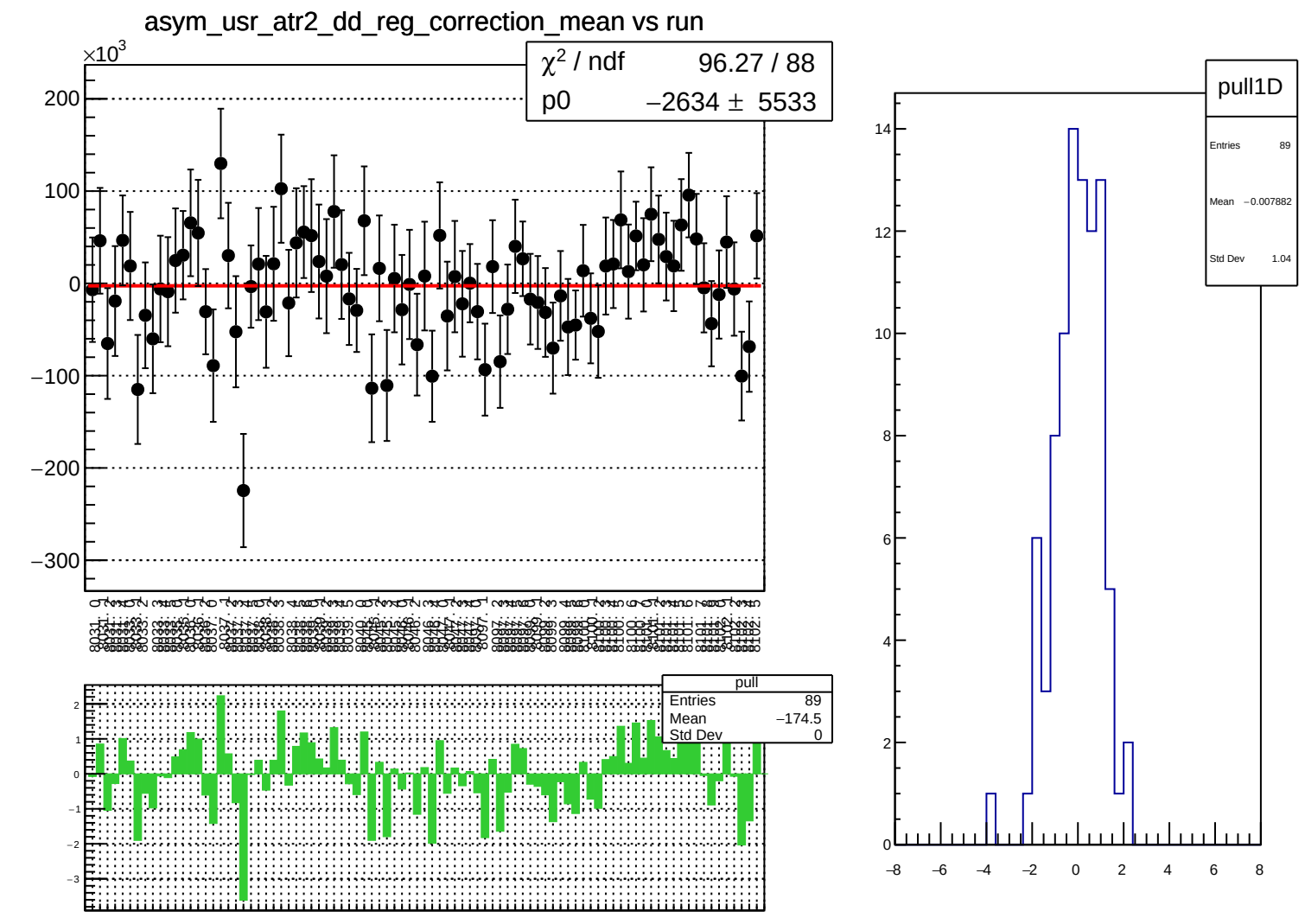

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 67.92 / 88
p0 −4.432e−13 ± 3.834e−13
40
20
0
−20
−40
−60
pull
Entries 89
Mean 63.72
Std Dev 47.39
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.06673
Std Dev 0.8711
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

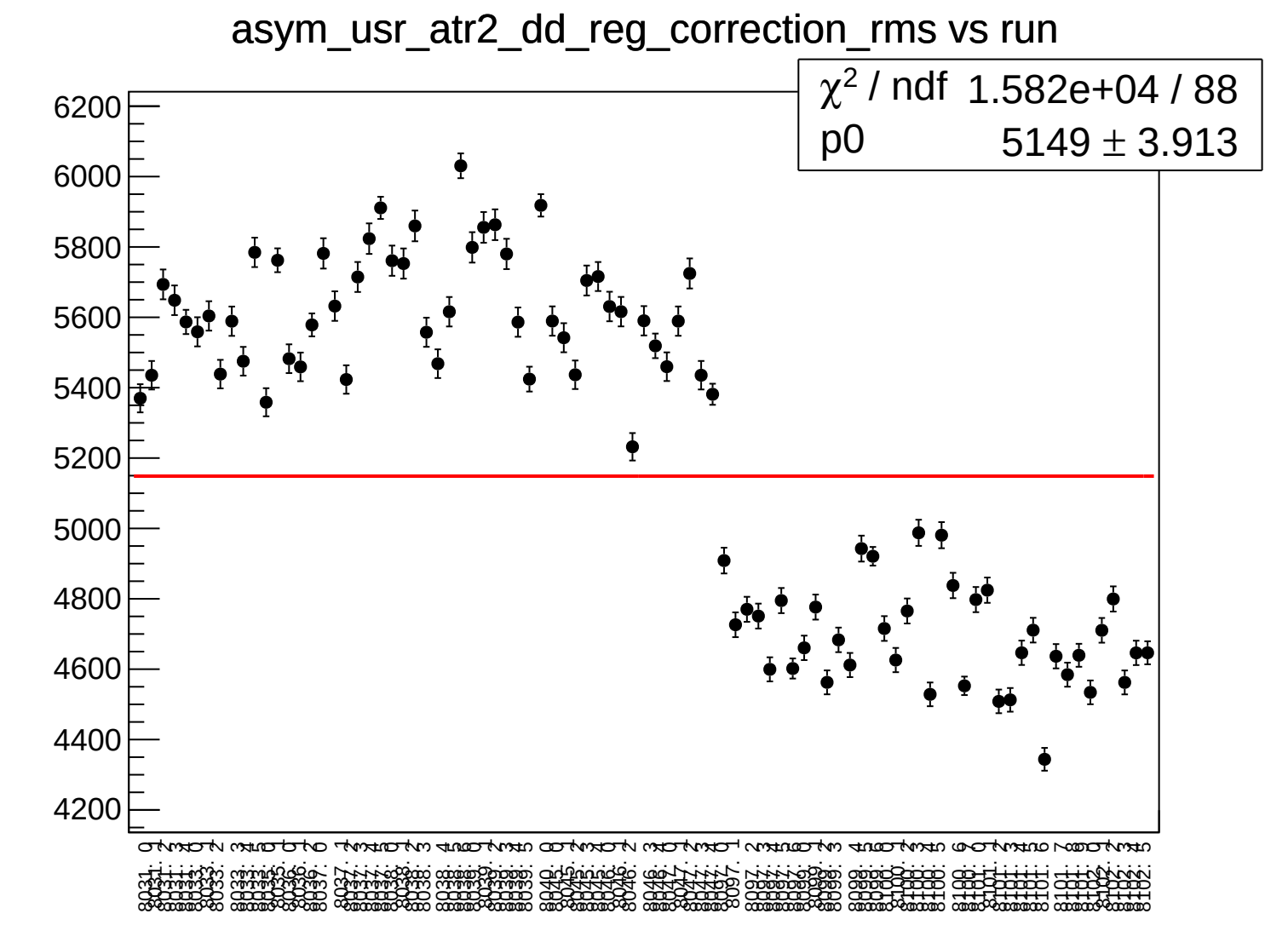

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.256e+05 / 88
p0 2.603e−10 ± 2.711e−13
2.5
2
1.5
1
0.5

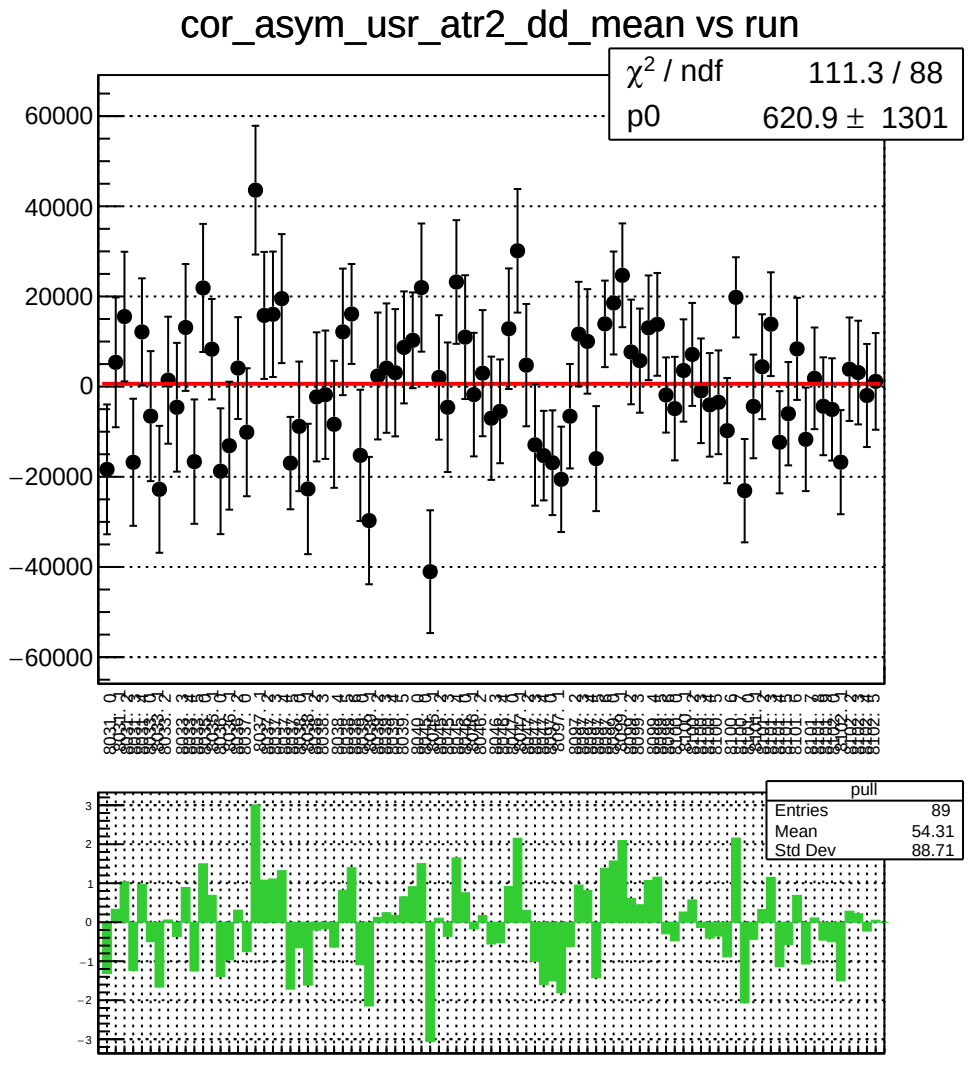

reg_asym_usr_atr2_dd_mean vs run
χ² / ndf 111.3 / 88
p0 620.8 ± 1301
pull
Entries 89
Mean 54.36
Std Dev 88.7

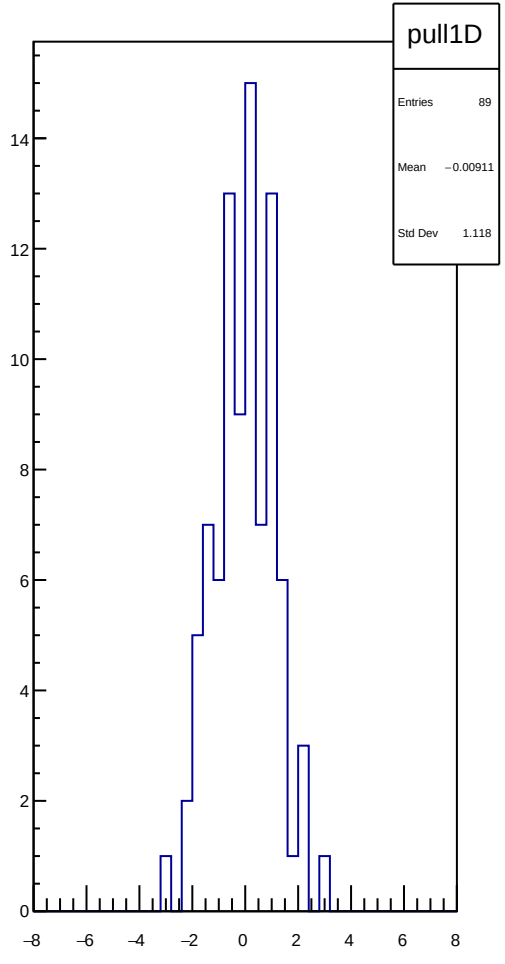

pull1D
Entries 89
Mean −0.009109
Std Dev 1.118

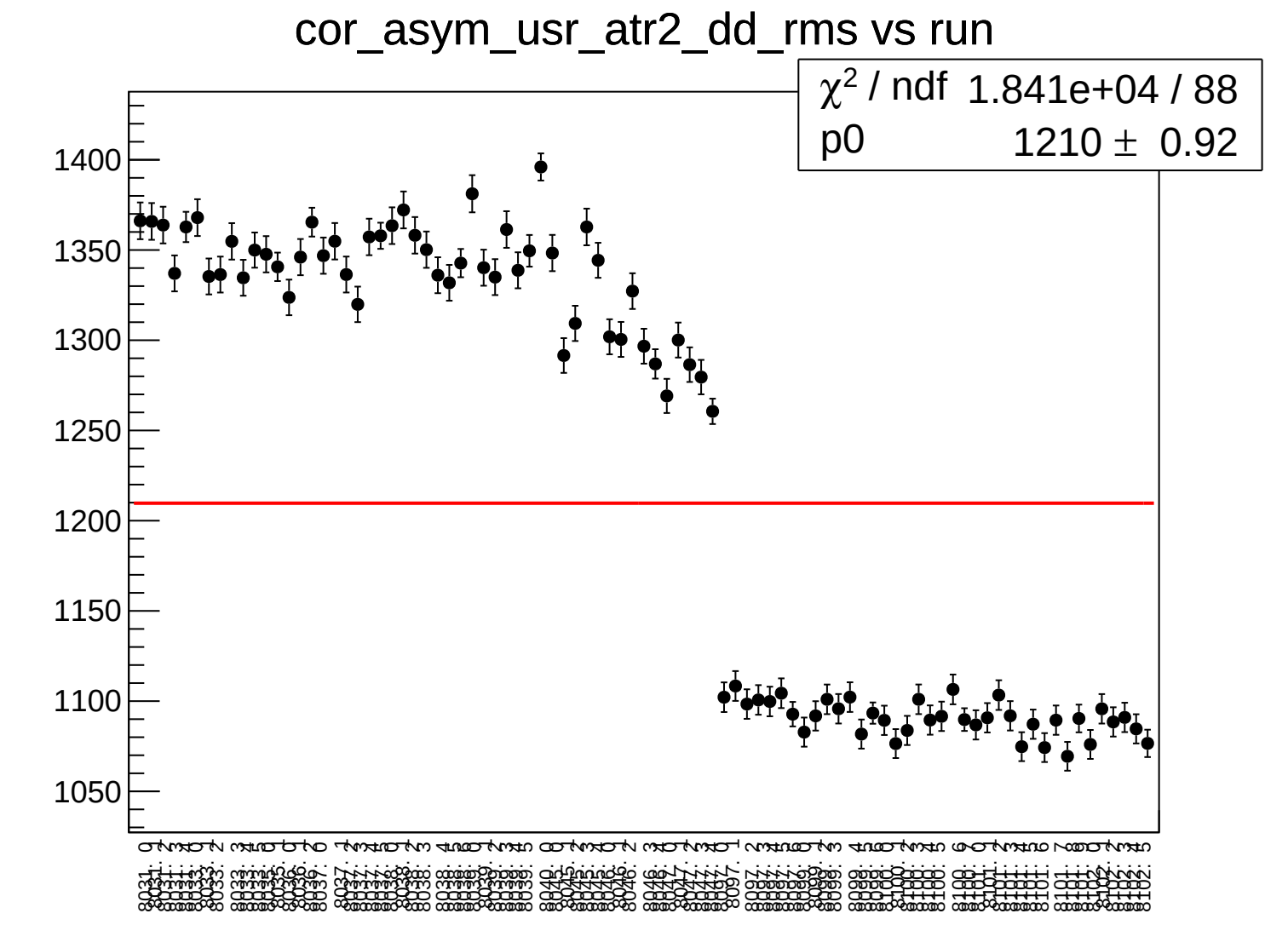

reg_asym_usr_atr2_dd_rms vs run
χ² / ndf 1.841e+04 / 88
p0 1210 ± 0.92
1400
1350
1300
1250
1200
1150
1100
1050

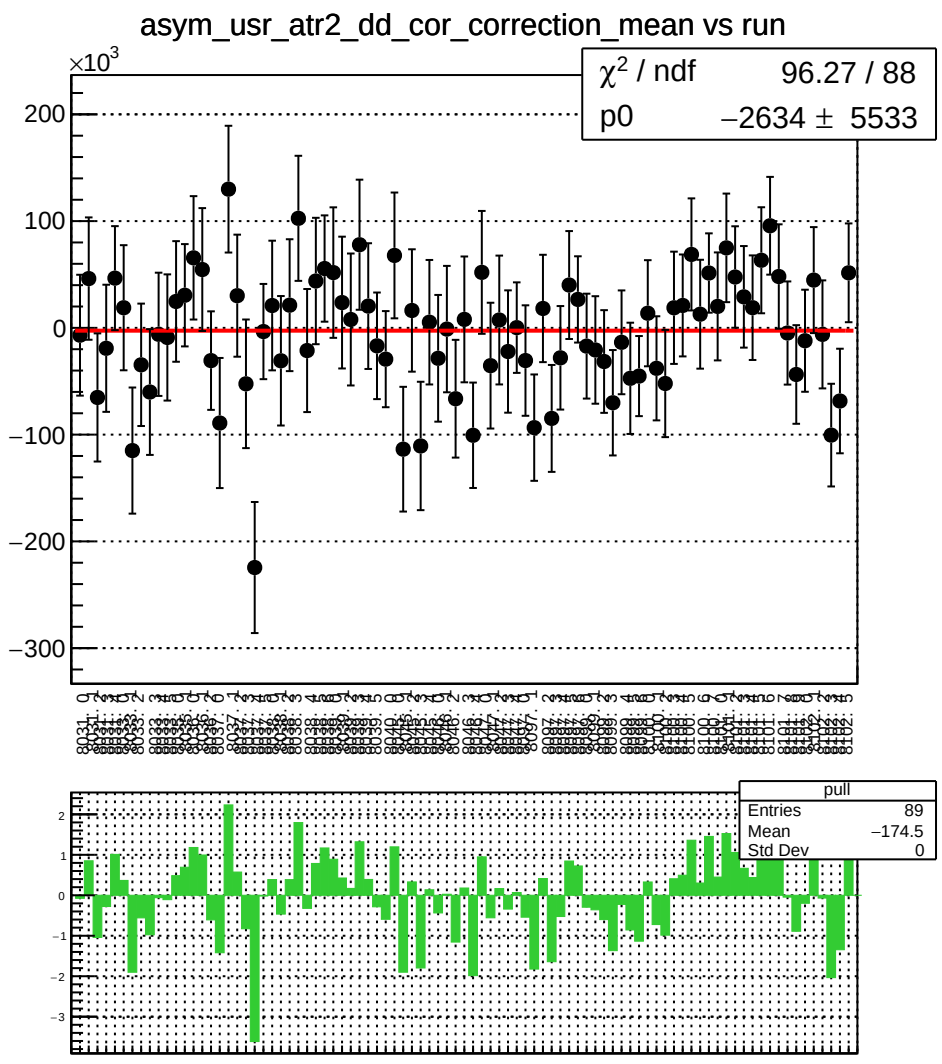

asym_usr_atr2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 96.27 / 88
p0 −2634 ± 5533
200
100
0
−100
−200
−300
pull
Entries 89
Mean −174.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.007882
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

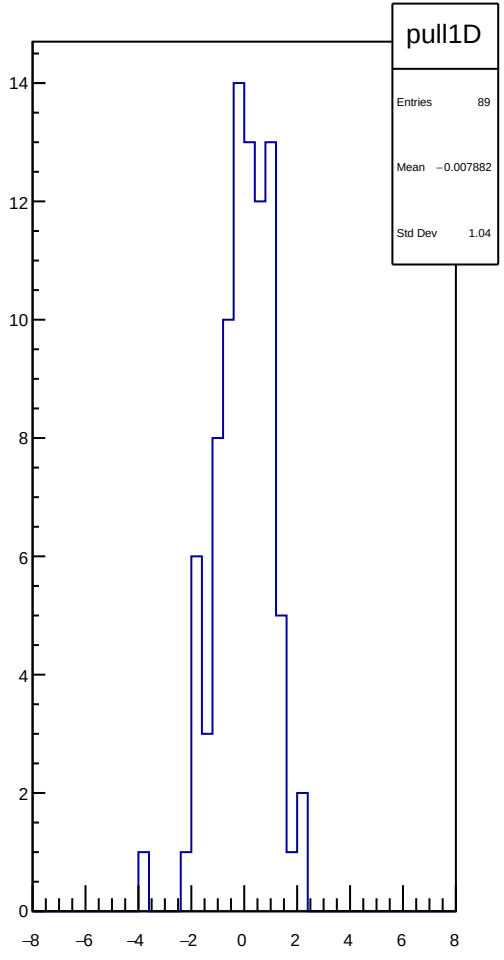

asym_usr_atr2_dd_reg_correction_rms vs run
χ² / ndf 1.582e+04 / 88
p0 5149 ± 3.913
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

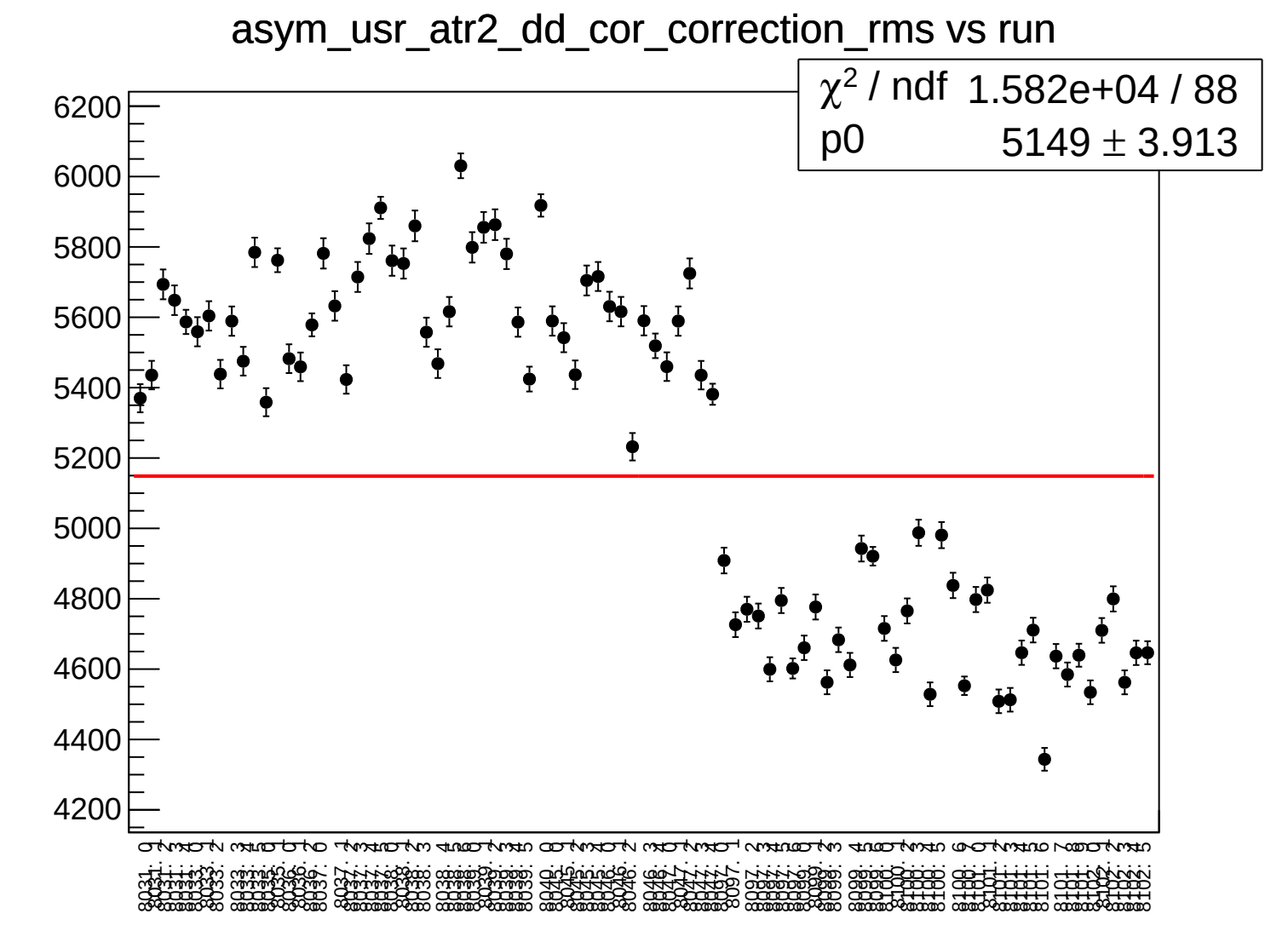

cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 111.3 / 88
p0 620.9 ± 1301
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 54.31
Std Dev 88.71
3
2
1
0
−1
−2
−3

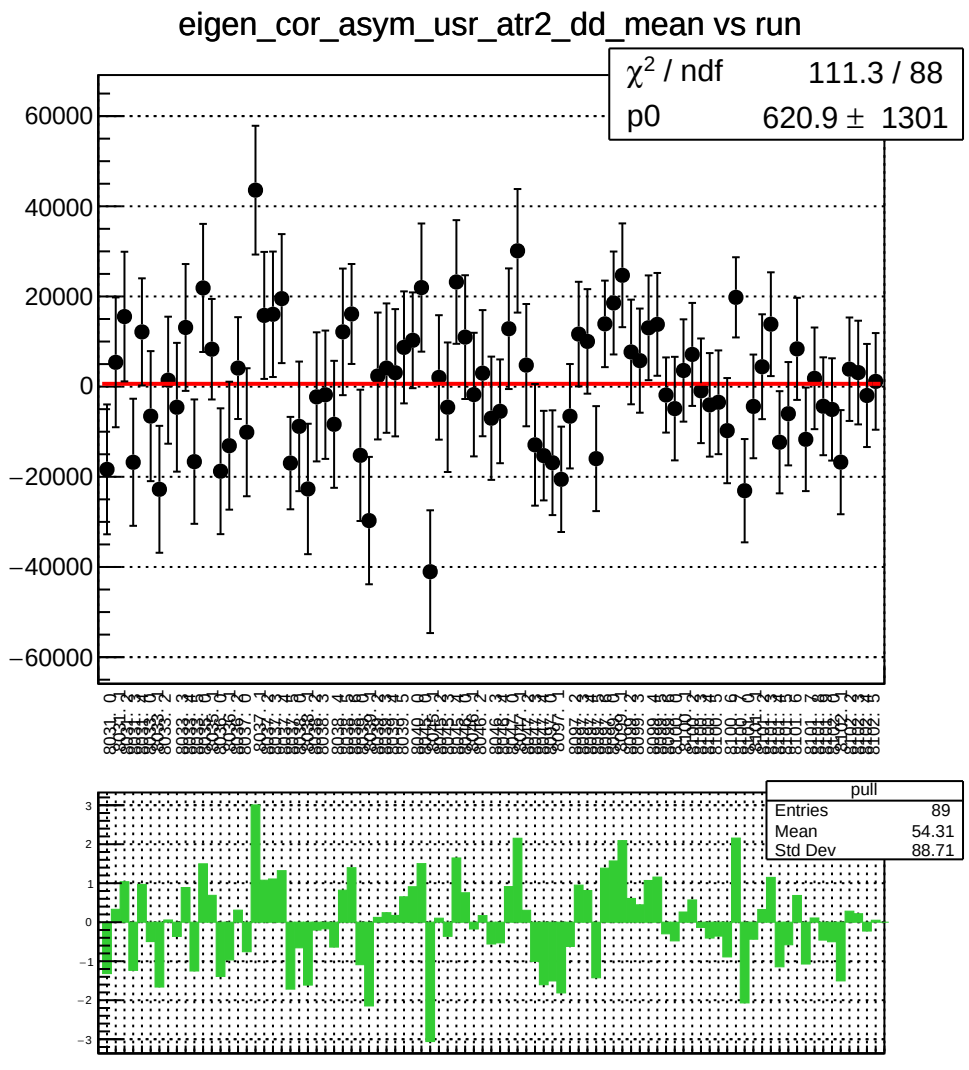

pull1D
Entries 89
Mean −0.00911
Std Dev 1.118
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

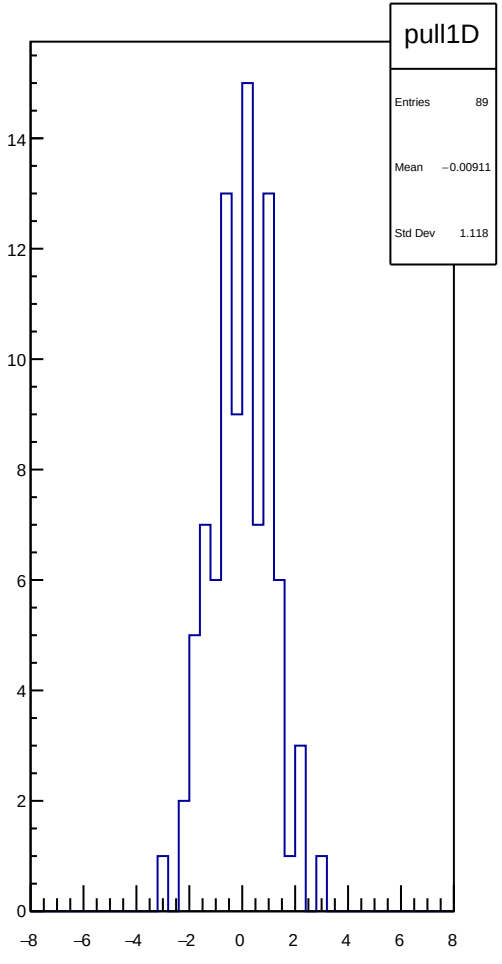

cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 1.841e+04 / 88
p0 1210 ± 0.92
1400
1350
1300
1250
1200
1150
1100
1050

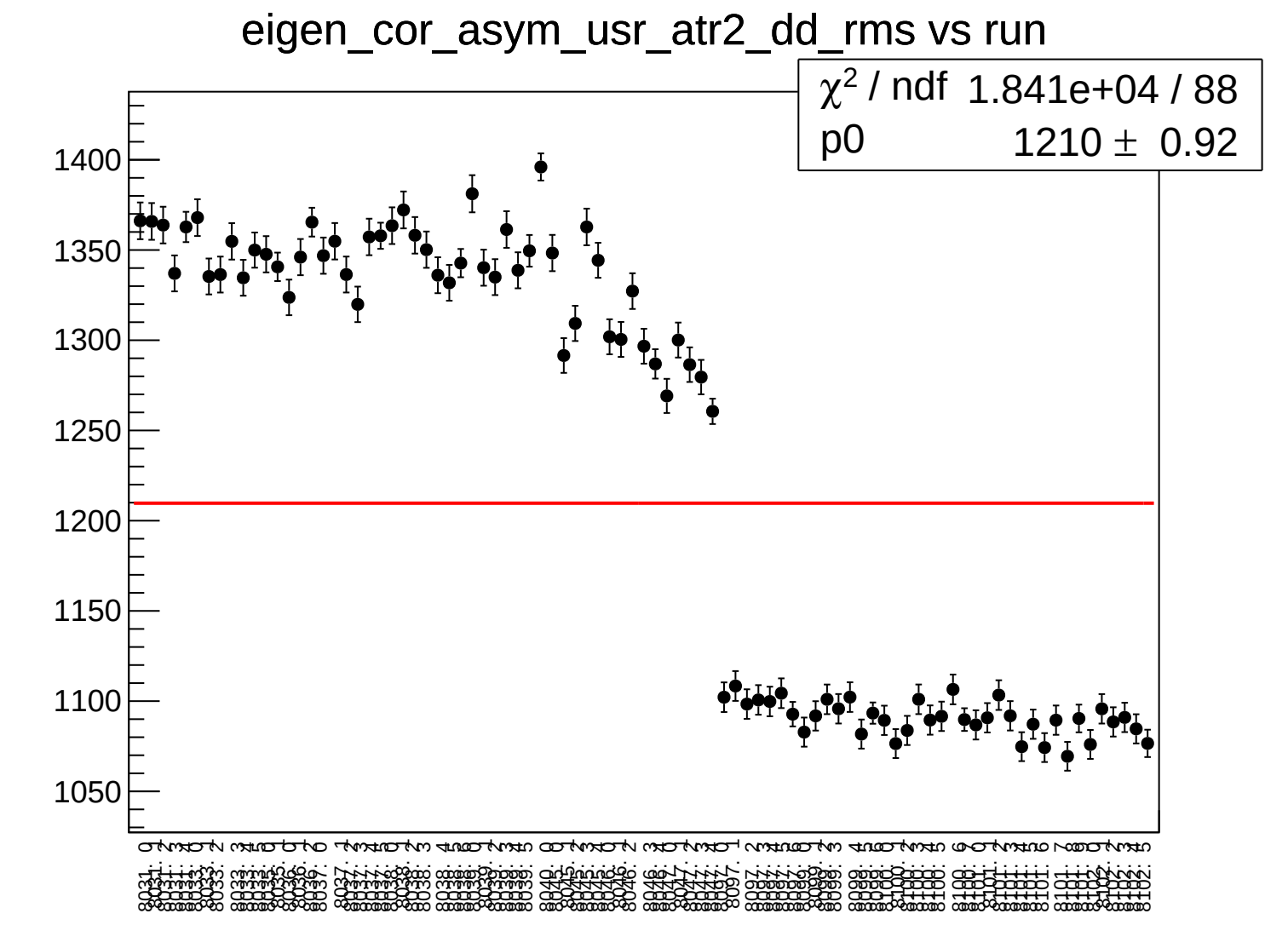

asym_usr_atr2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 96.27 / 88
p0 −2634 ± 5533
200
100
0
−100
−200
−300
pull
Entries 89
Mean −174.5
Std Dev 0
2
1
0
−1
−2
−3

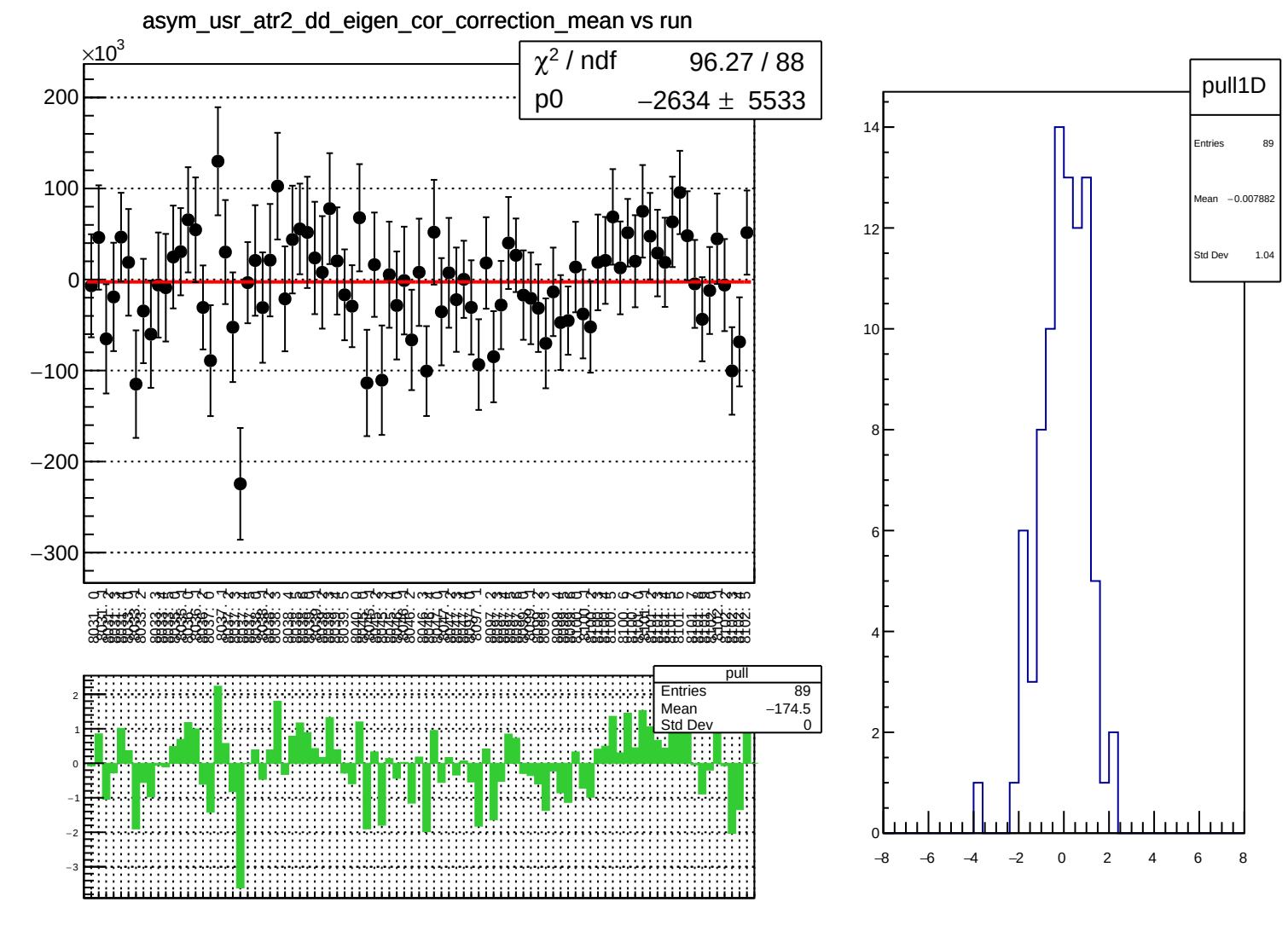

pull1D
Entries 89
Mean −0.007882
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

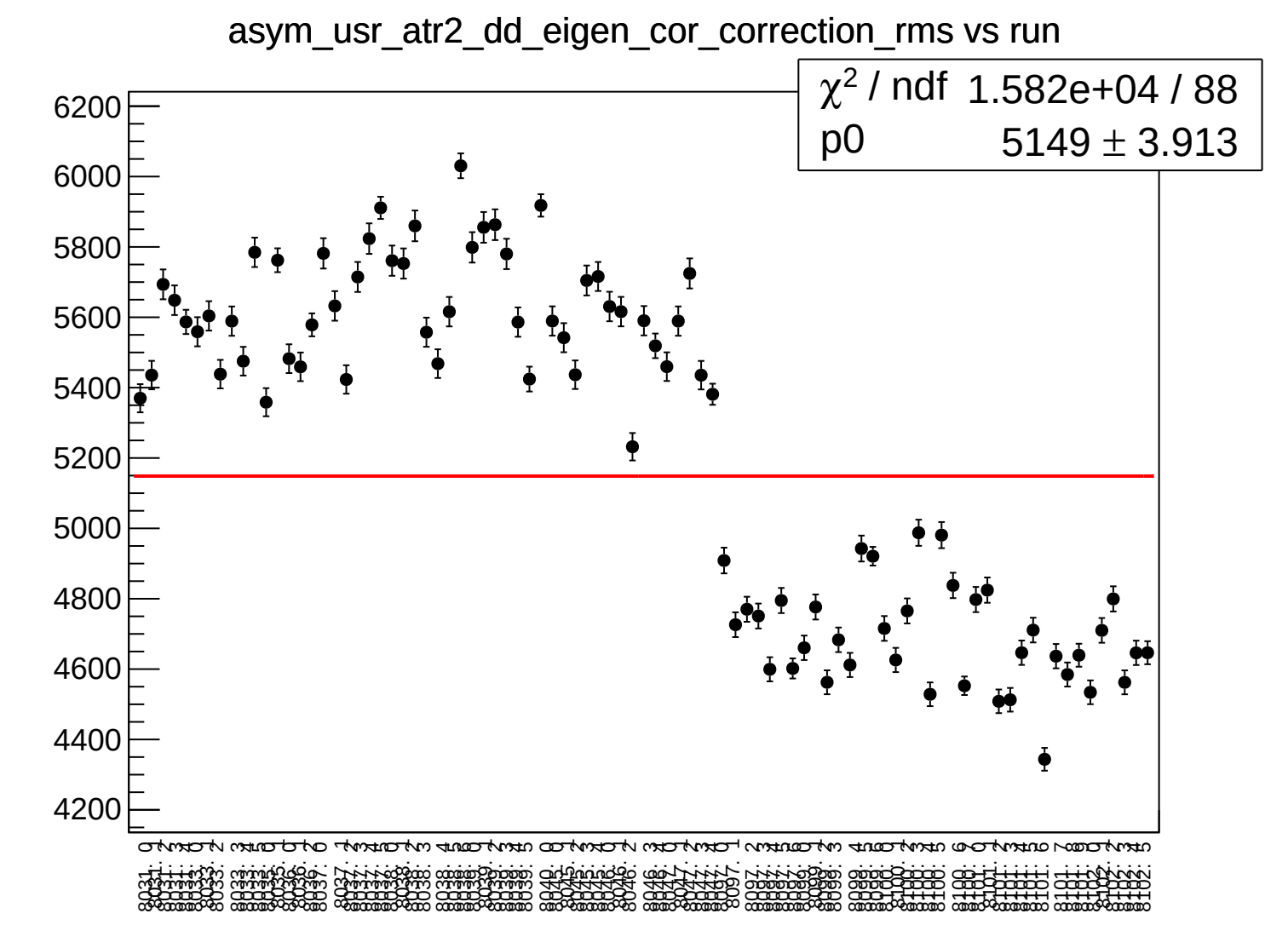

asym_usr_atr2_dd_cor_correction_rms vs run
χ² / ndf 1.582e+04 / 88
p0 5149 ± 3.913
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

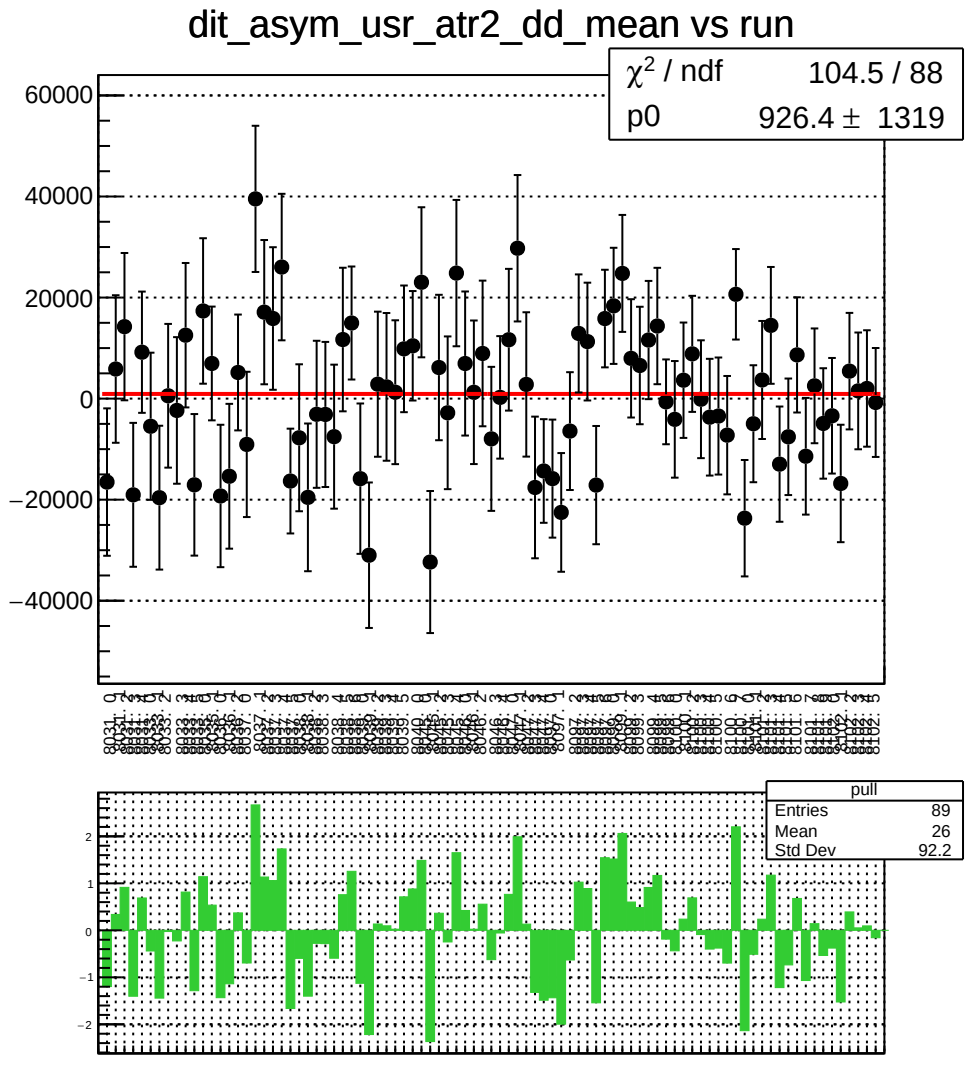

eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 111.3 / 88
p0 620.9 ± 1301
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 54.31
Std Dev 88.71
3
2
1
0
−1
−2
−3

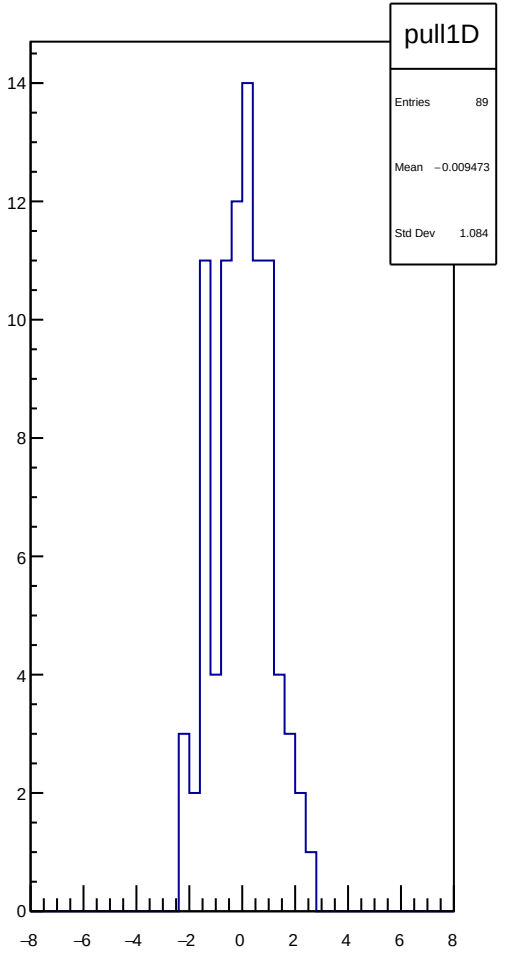

pull1D
Entries 89
Mean −0.00911
Std Dev 1.118
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

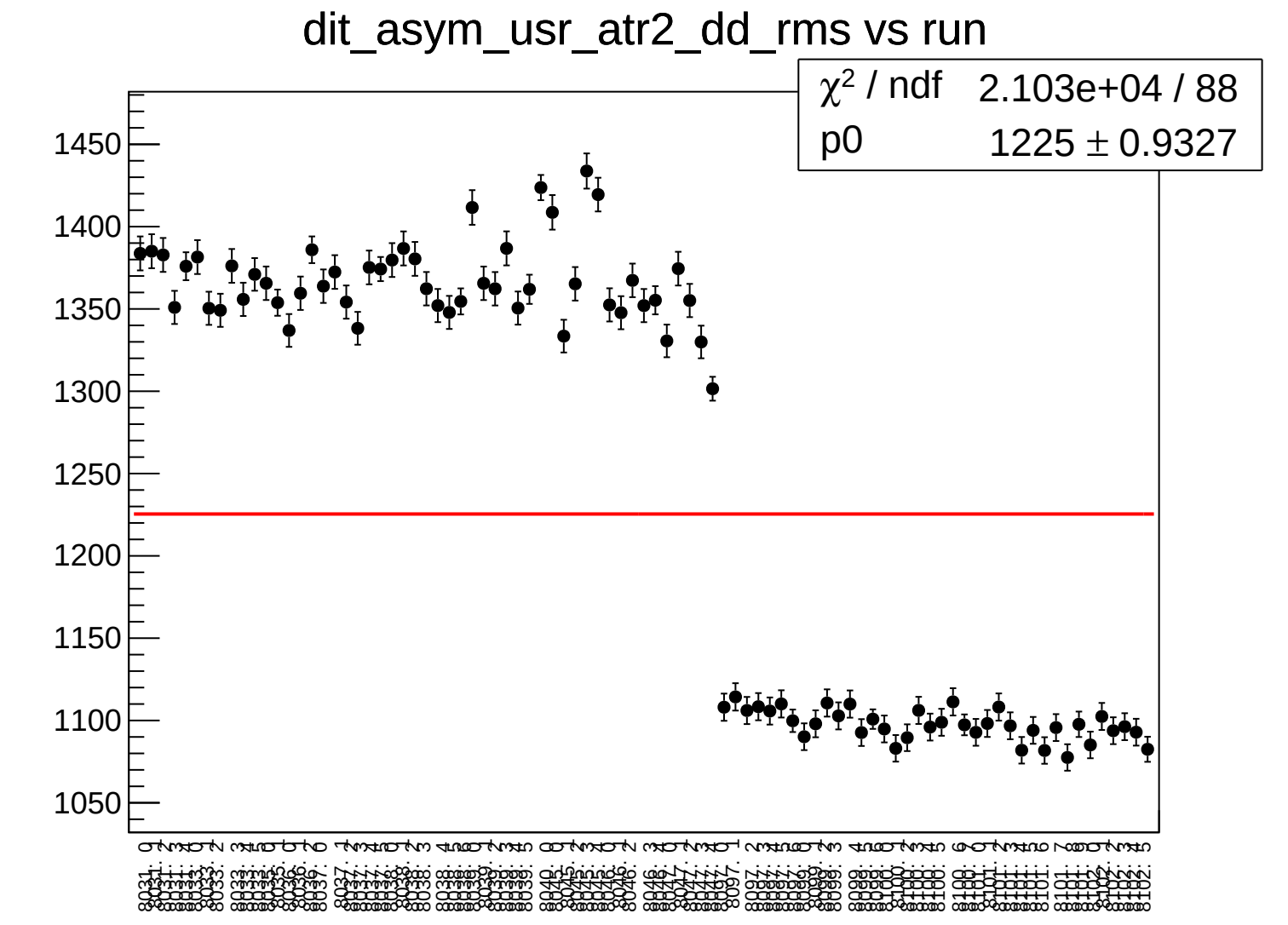

eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 1.841e+04 / 88
p0 1210 ± 0.92
1400
1350
1300
1250
1200
1150
1100
1050

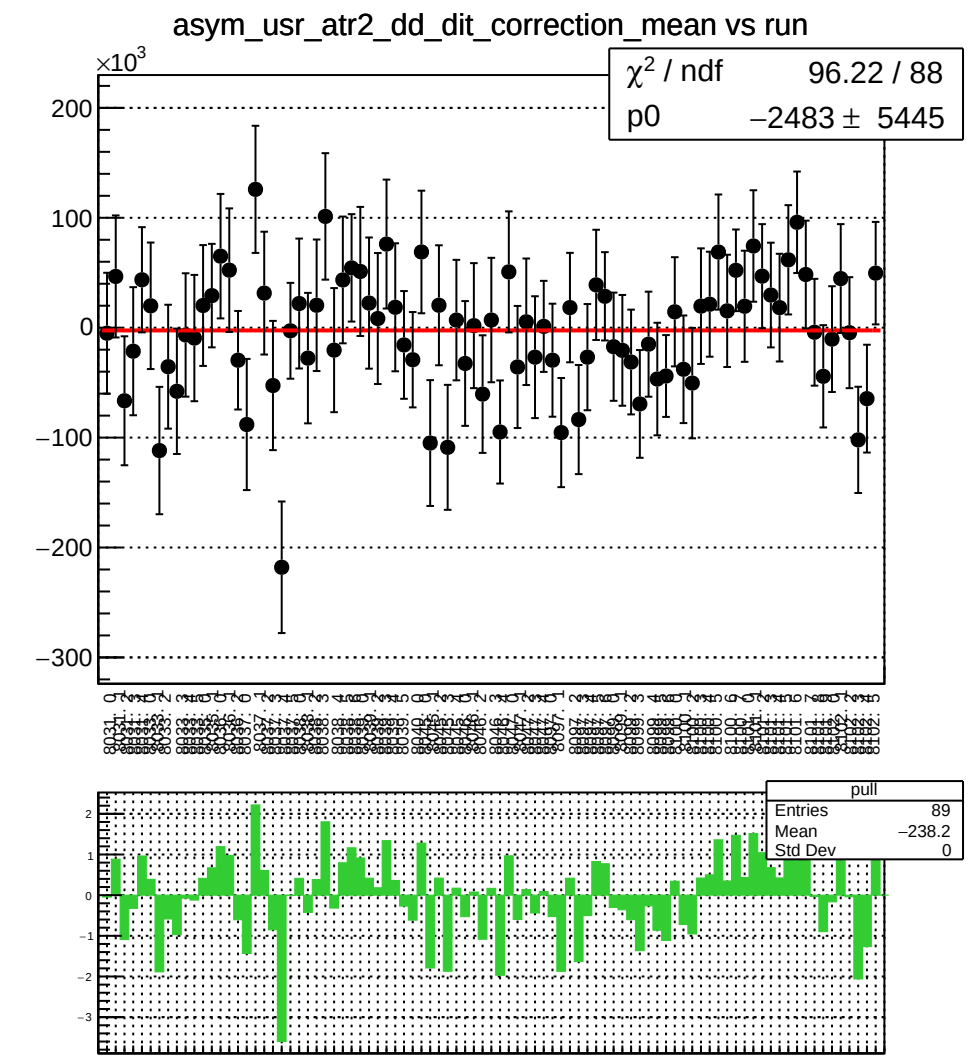

asym_usr_atr2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 96.27 / 88
p0 −2634 ± 5533
200
100
0
−100
−200
−300
pull
Entries 89
Mean −174.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.007882
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

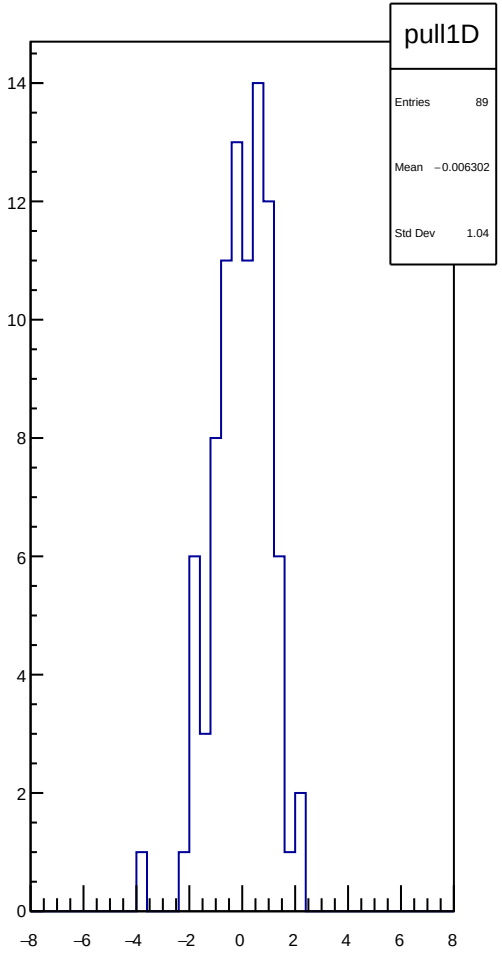

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.582e+04 / 88
p0 5149 ± 3.913
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

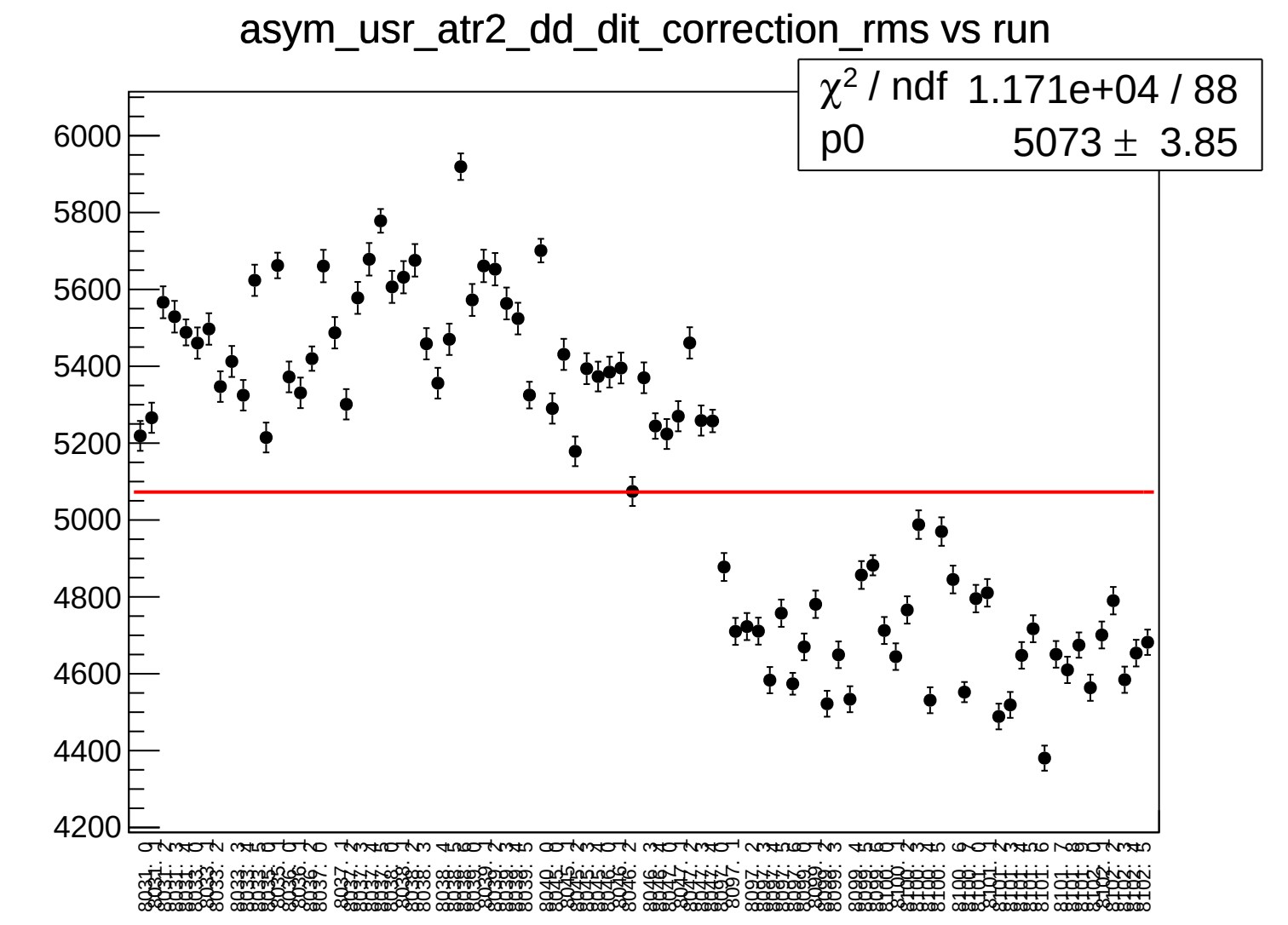

dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 104.5 / 88
p0 926.4 ± 1319
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 26
Std Dev 92.2
2
1
0
−1
−2

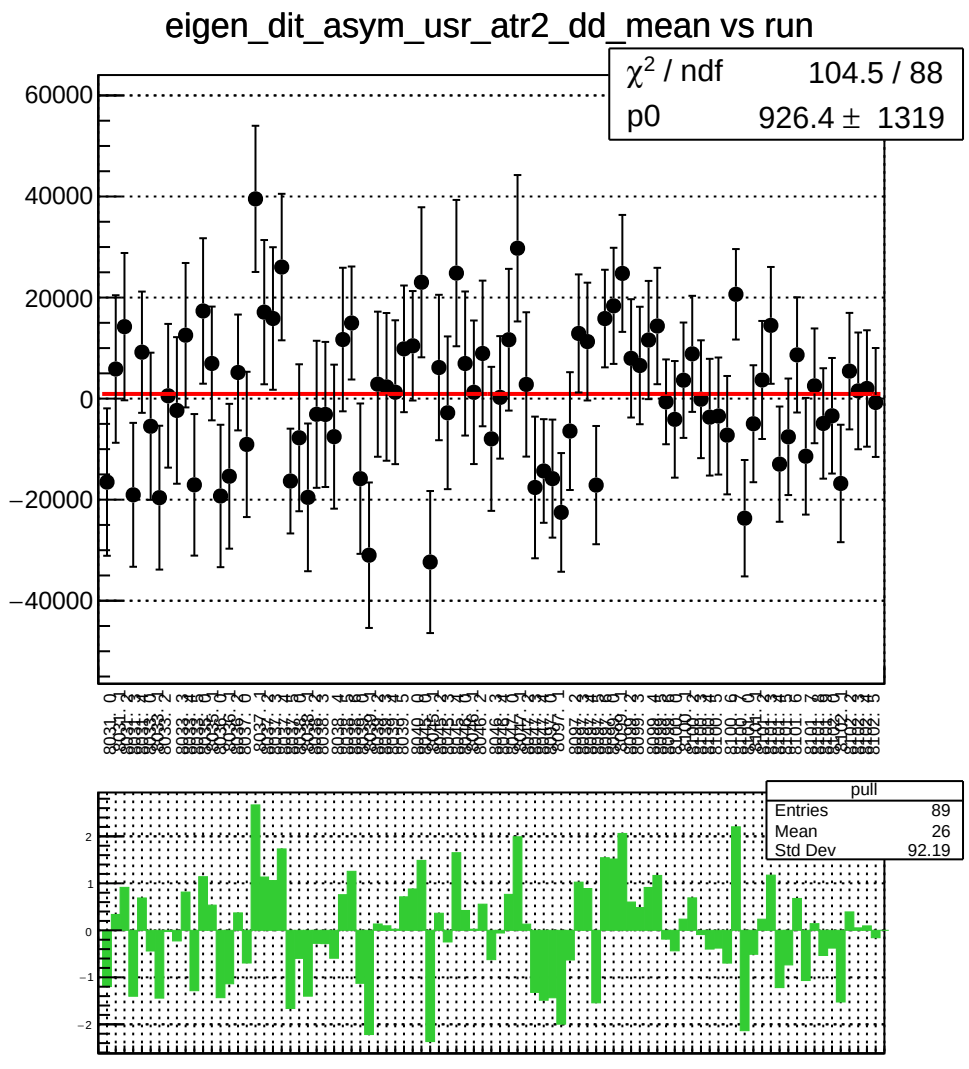

pull1D
Entries 89
Mean −0.009473
Std Dev 1.084
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

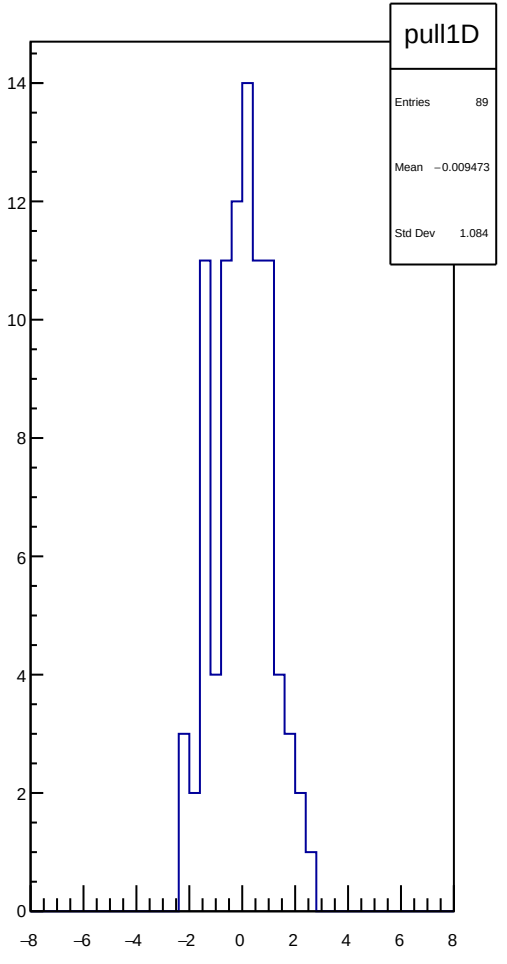

dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 2.103e+04 / 88
p0 1225 ± 0.9327
1450
1400
1350
1300
1250
1200
1150
1100
1050

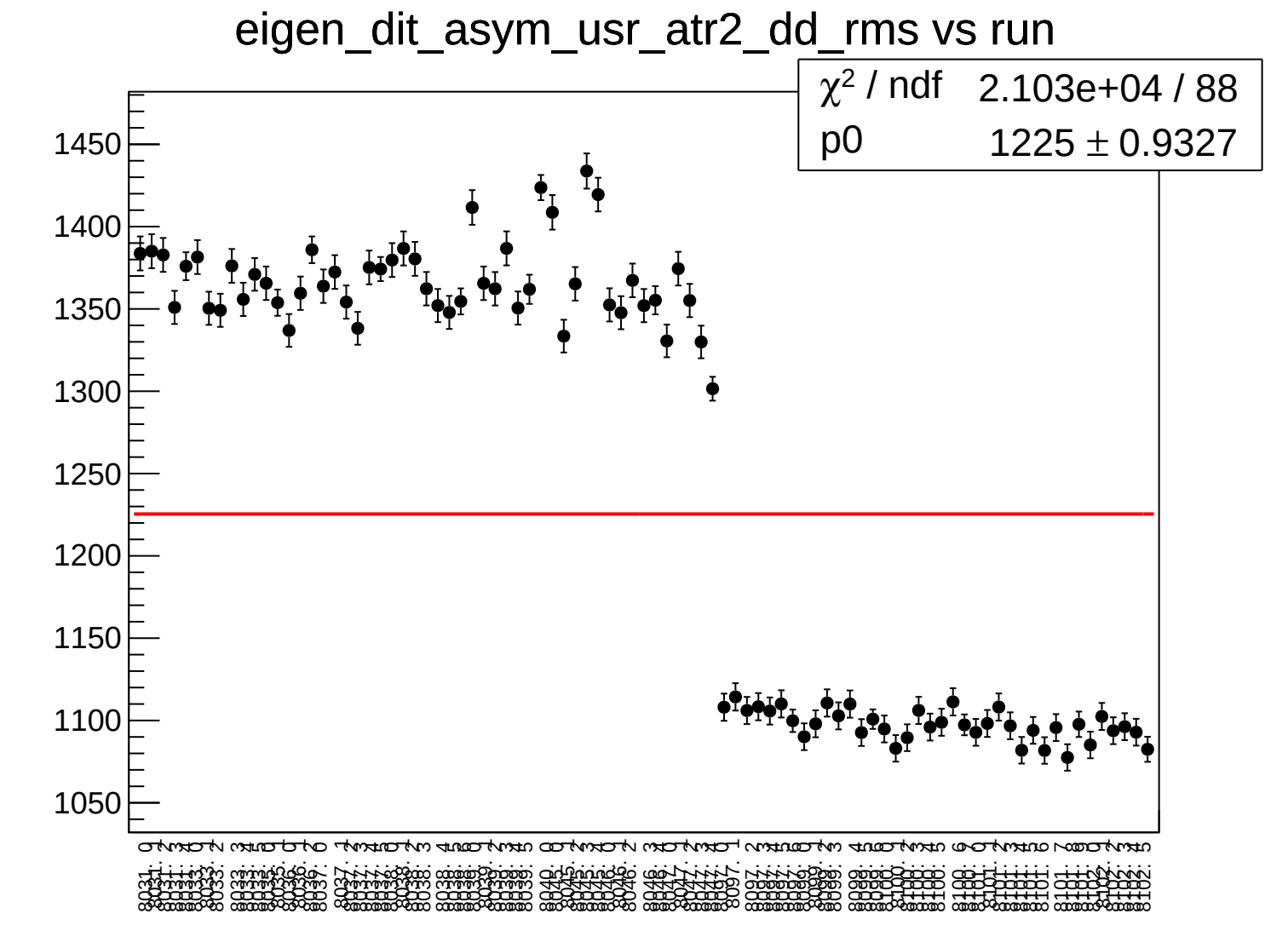

asym_usr_atr2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 96.22 / 88
p0 −2483 ± 5445
200
100
0
−100
−200
−300
pull
Entries 89
Mean −238.2
Std Dev 0
2
1
0
−1
−2
−3

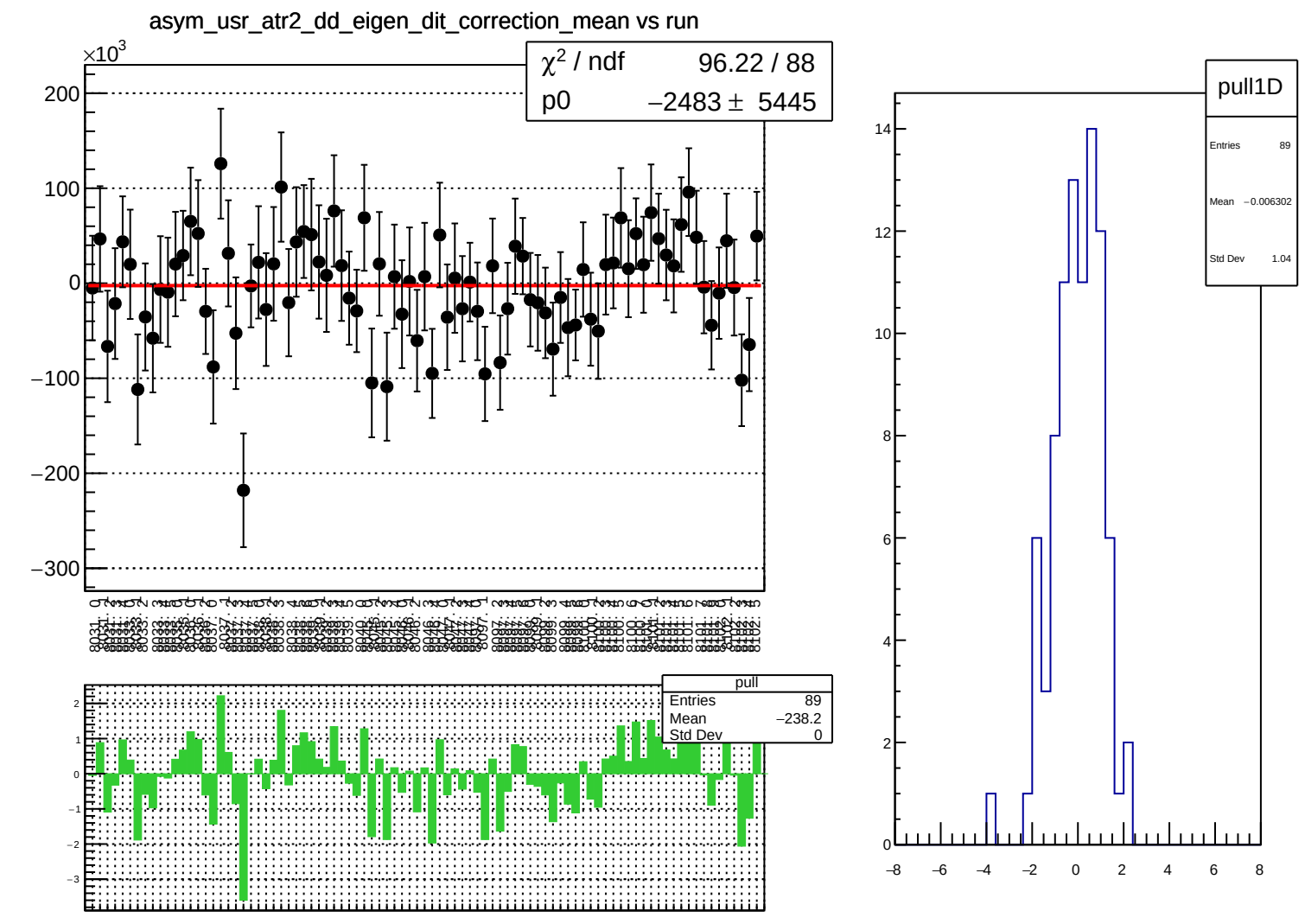

pull1D
Entries 89
Mean −0.006302
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

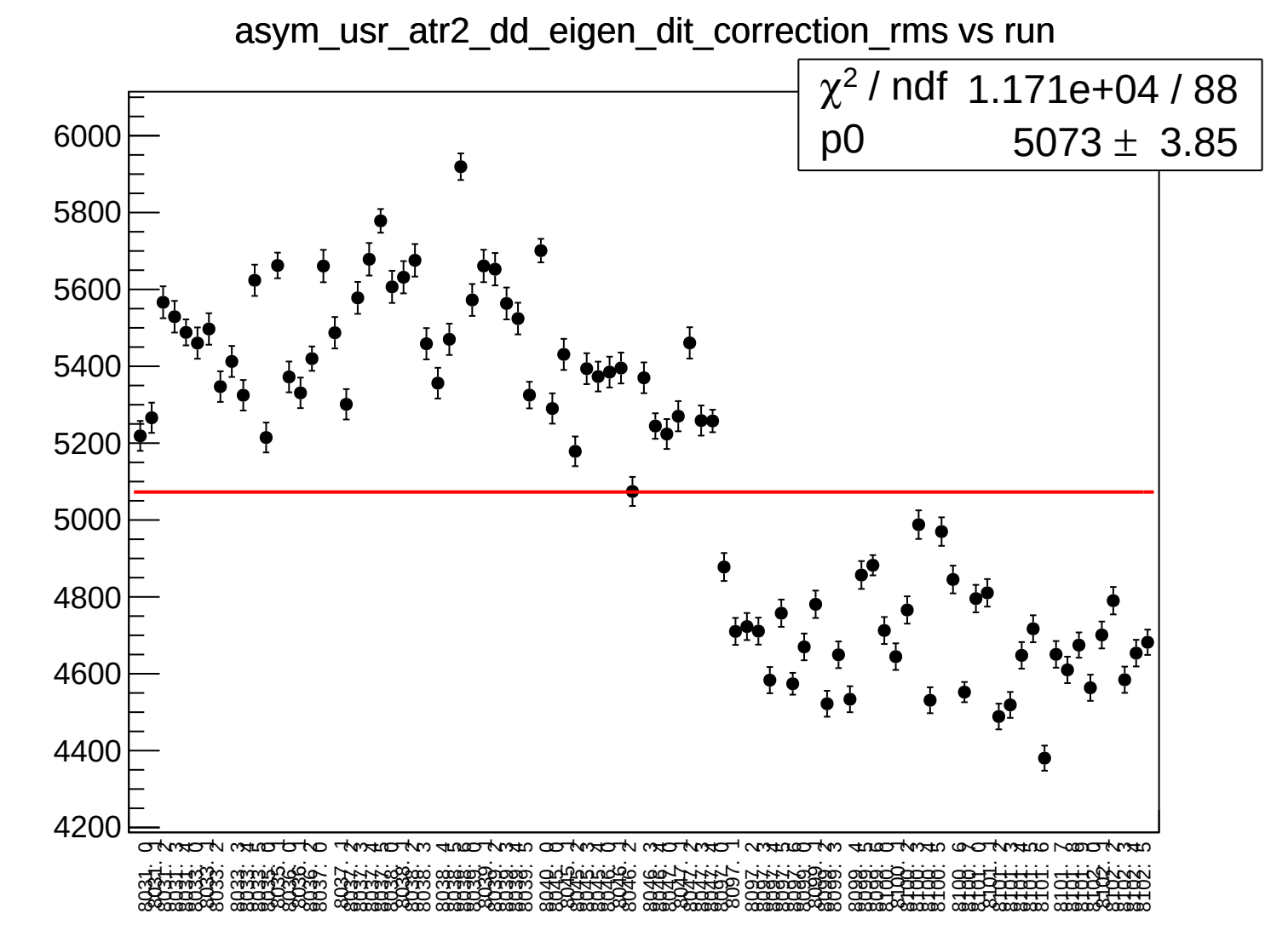

asym_usr_atr2_dd_dit_correction_rms vs run
χ² / ndf 1.171e+04 / 88
p0 5073 ± 3.85
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

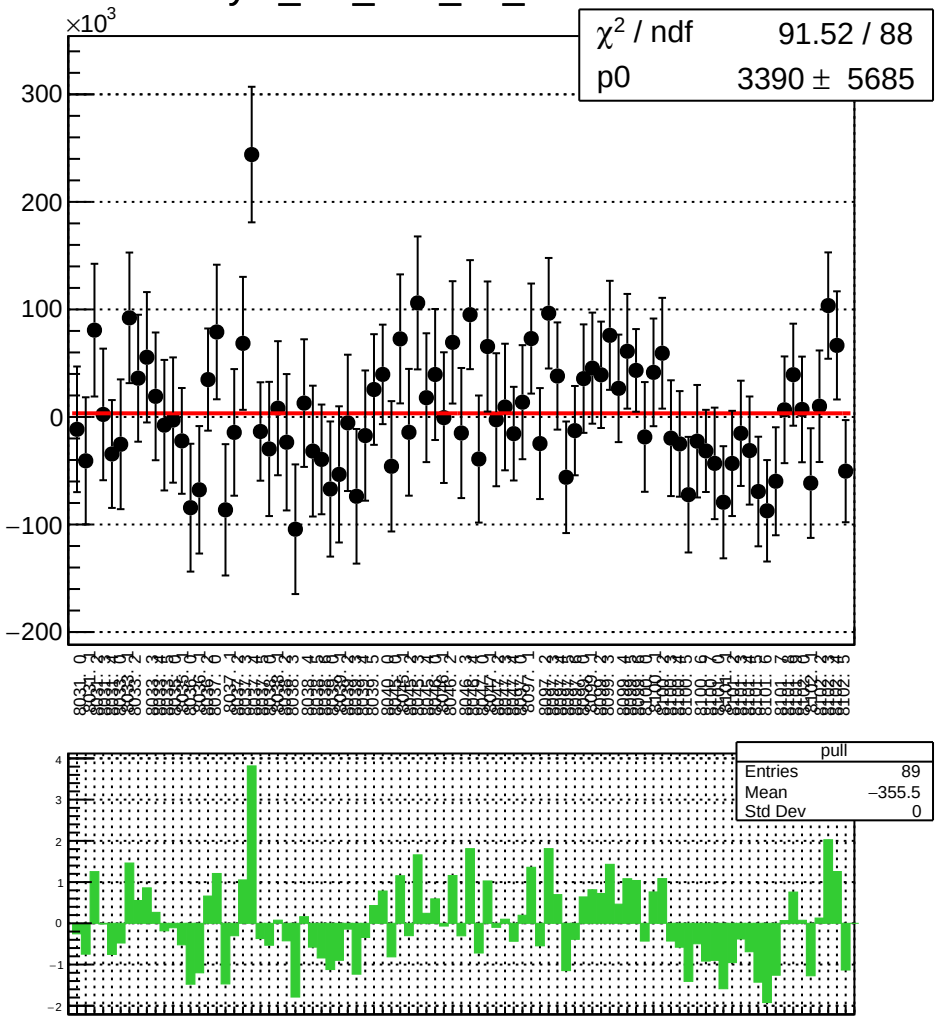

eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 104.5 / 88
p0 926.4 ± 1319
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 26
Std Dev 92.19
2
1
0
−1
−2

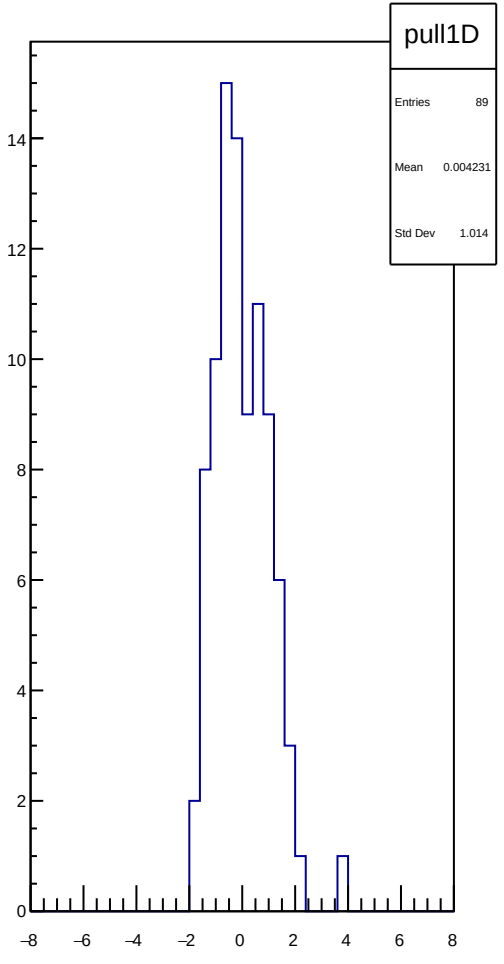

pull1D
Entries 89
Mean −0.009473
Std Dev 1.084
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

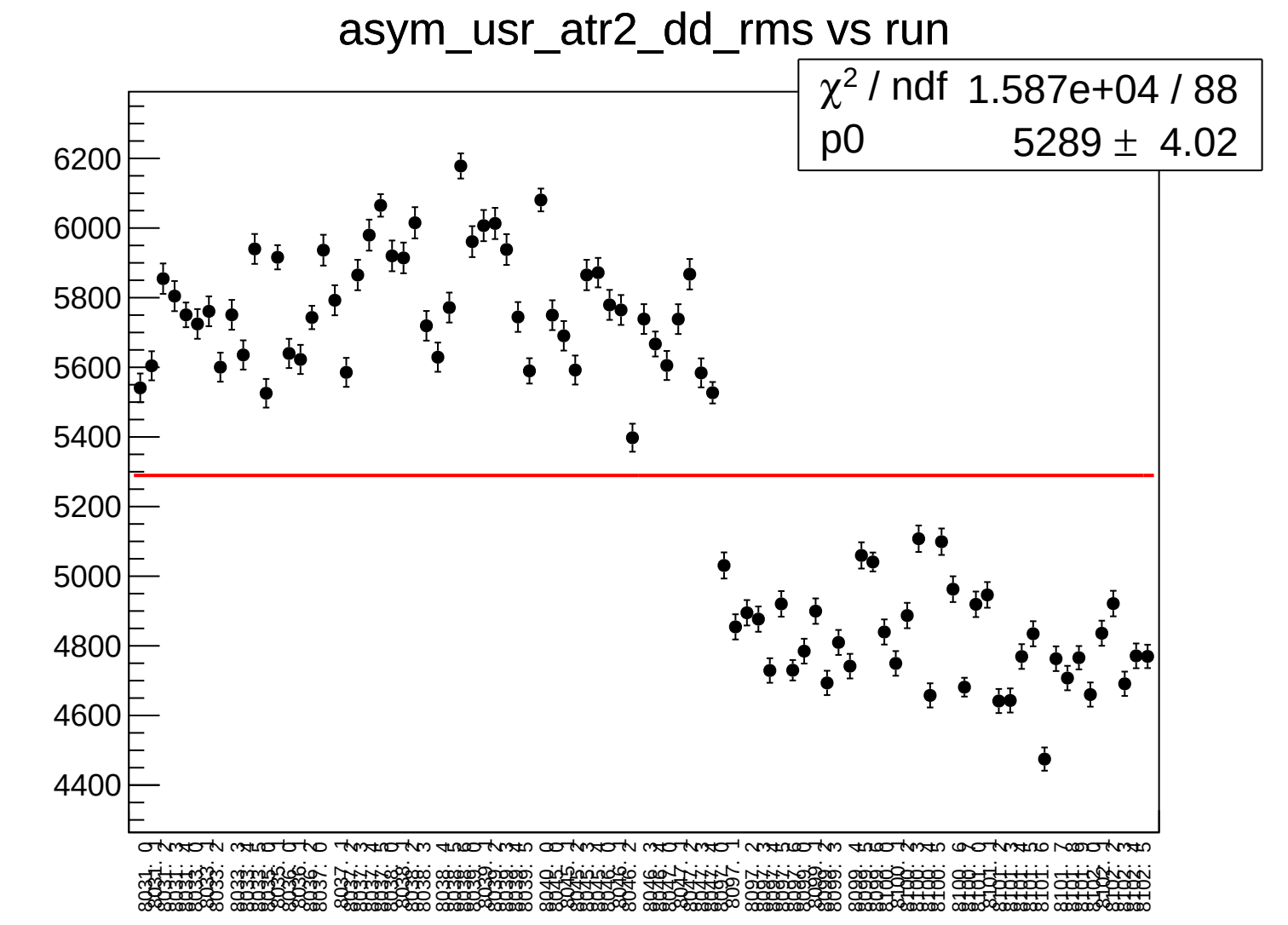

eigen_dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 2.103e+04 / 88
p0 1225 ± 0.9327
1450
1400
1350
1300
1250
1200
1150
1100
1050

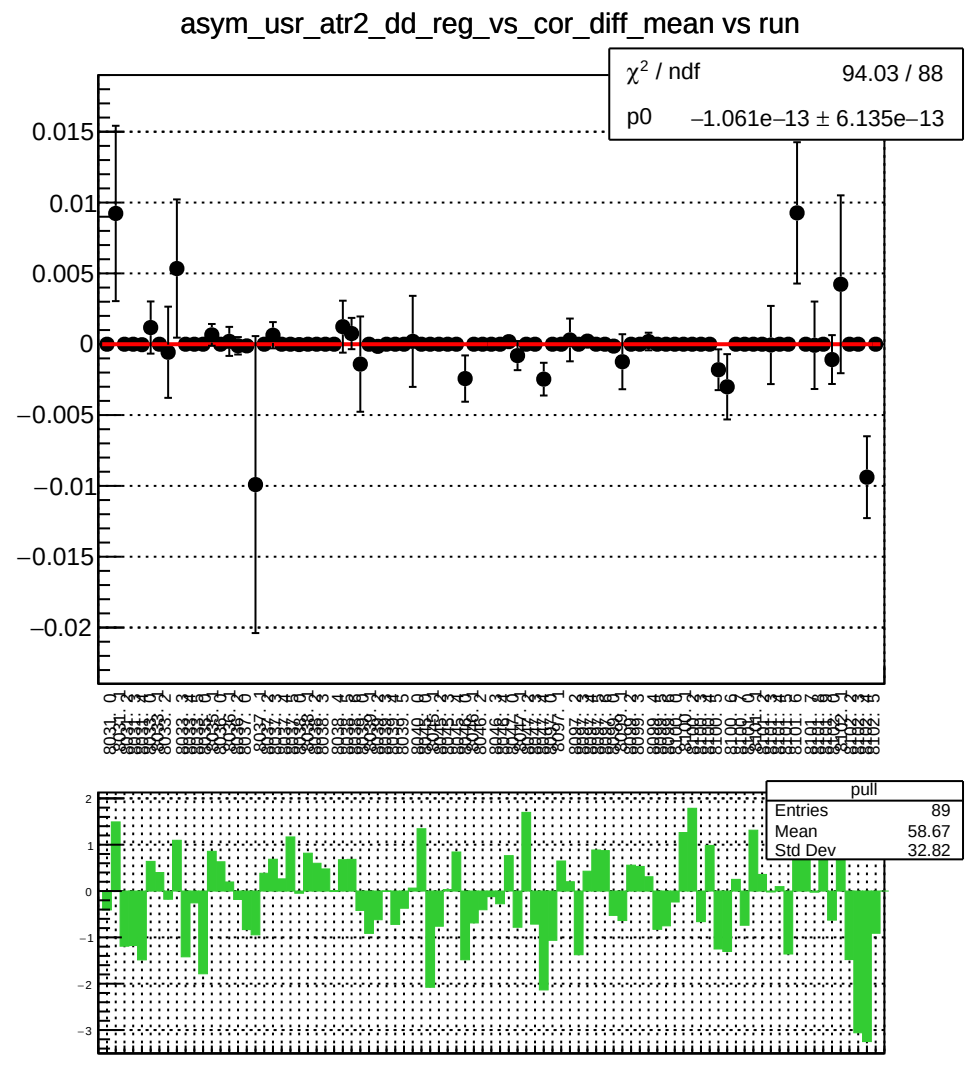

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.22 / 88
p0 −2483 ± 5445
200
100
0
−100
−200
−300
pull
Entries 89
Mean −238.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.006302
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

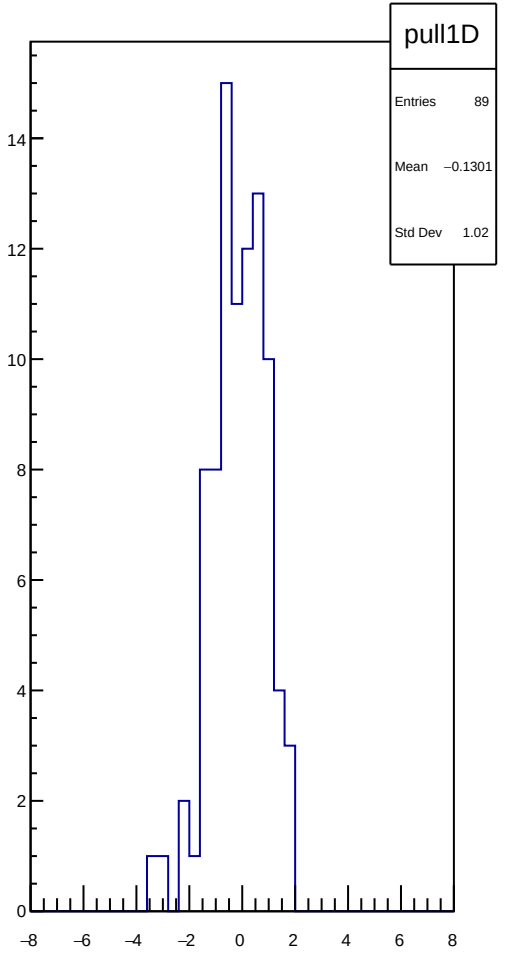

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.171e+04 / 88
p0 5073 ± 3.85
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

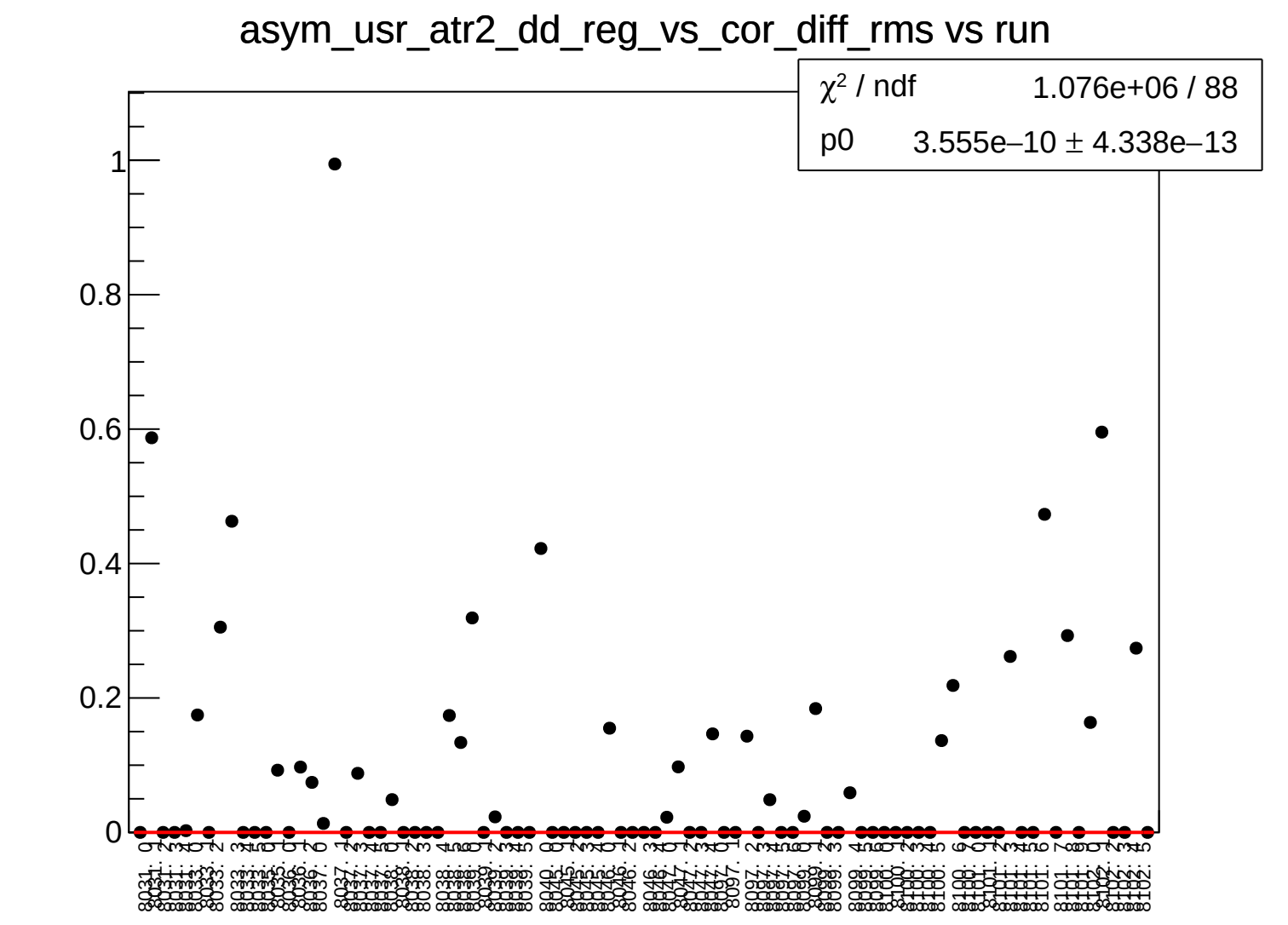

asym_usr_atr2_dd_mean vs run
×10^3
χ² / ndf 91.52 / 88
p0 3390 ± 5685
300
200
100
0
−100
−200
pull
Entries 89
Mean −355.5
Std Dev 0
4
3
2
1
0
−1
−2

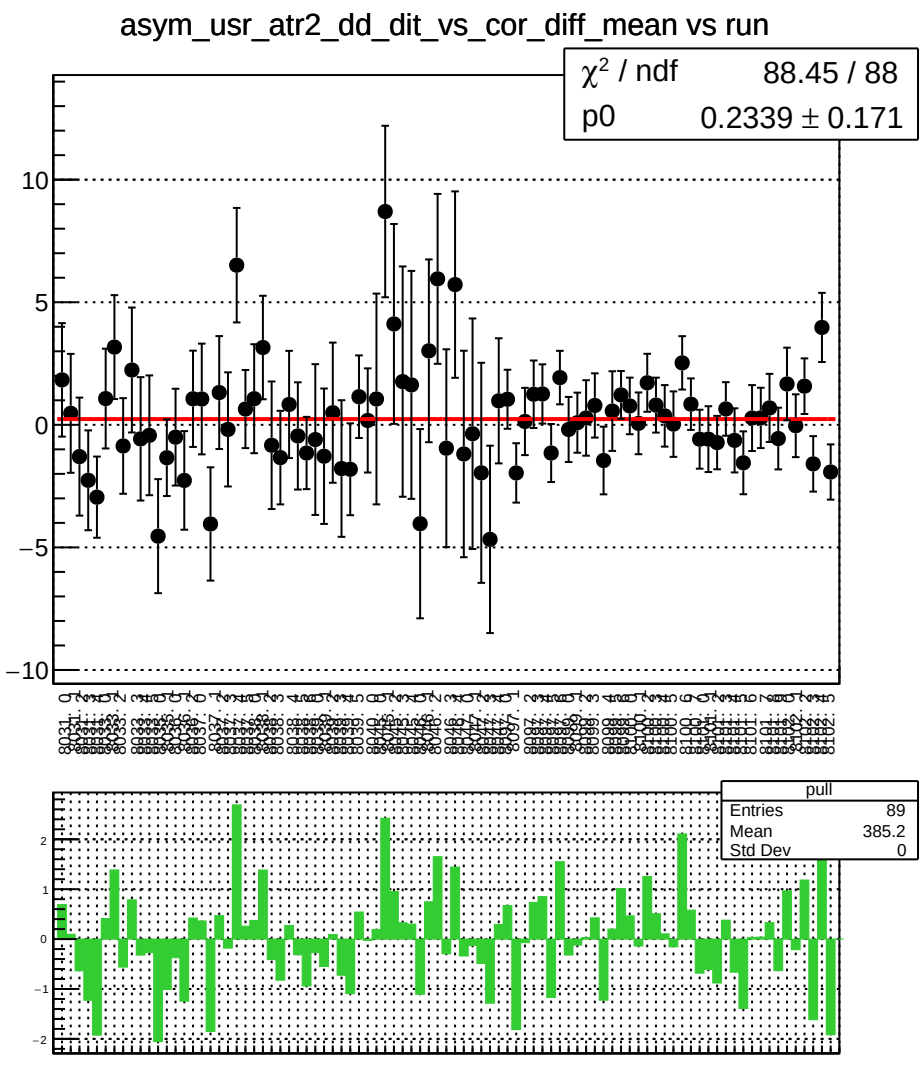

pull1D
Entries 89
Mean 0.004231
Std Dev 1.014
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

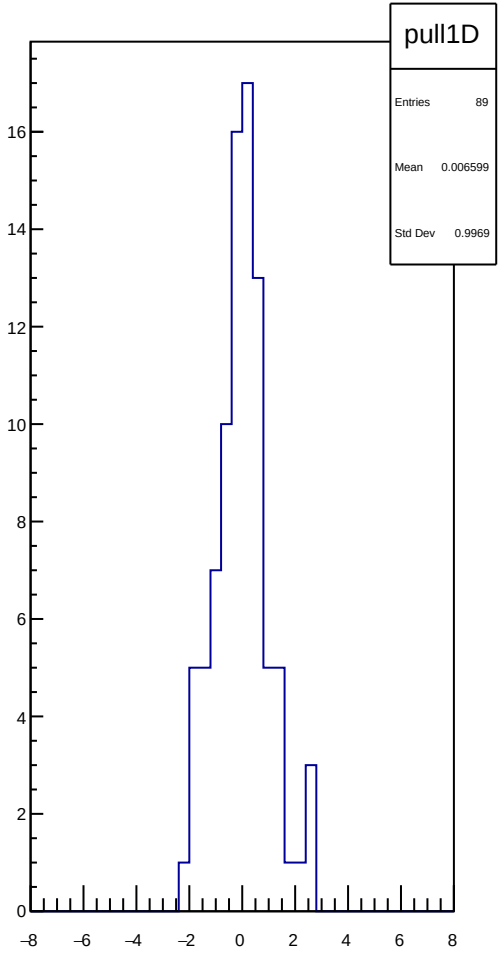

asym_usr_atr2_dd_rms vs run
χ² / ndf 1.587e+04 / 88
p0 5289 ± 4.02
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400

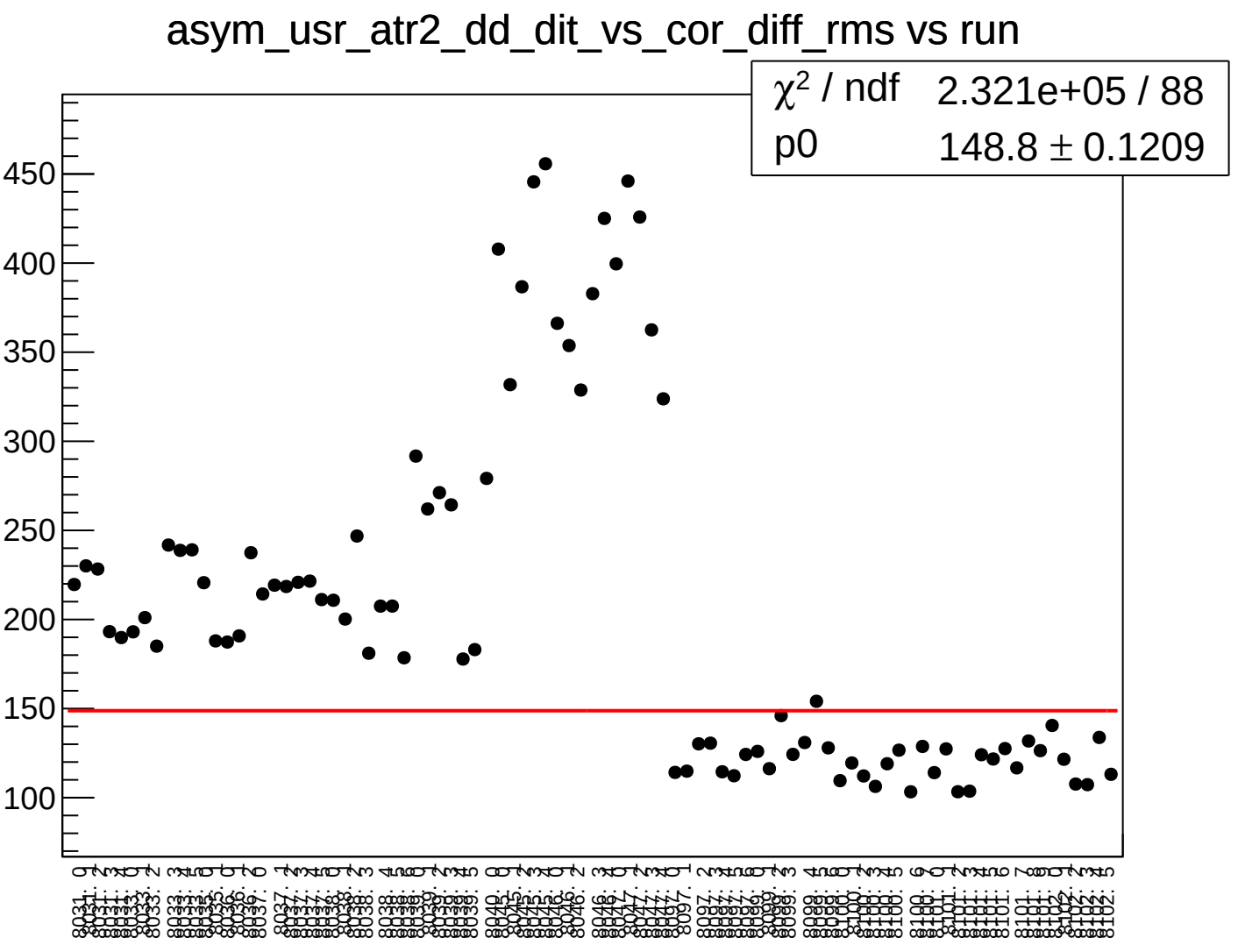

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 94.03 / 88
p0 −1.061e−13 ± 6.135e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 89
Mean 58.67
Std Dev 32.82
2
1
0
−1
−2
−3

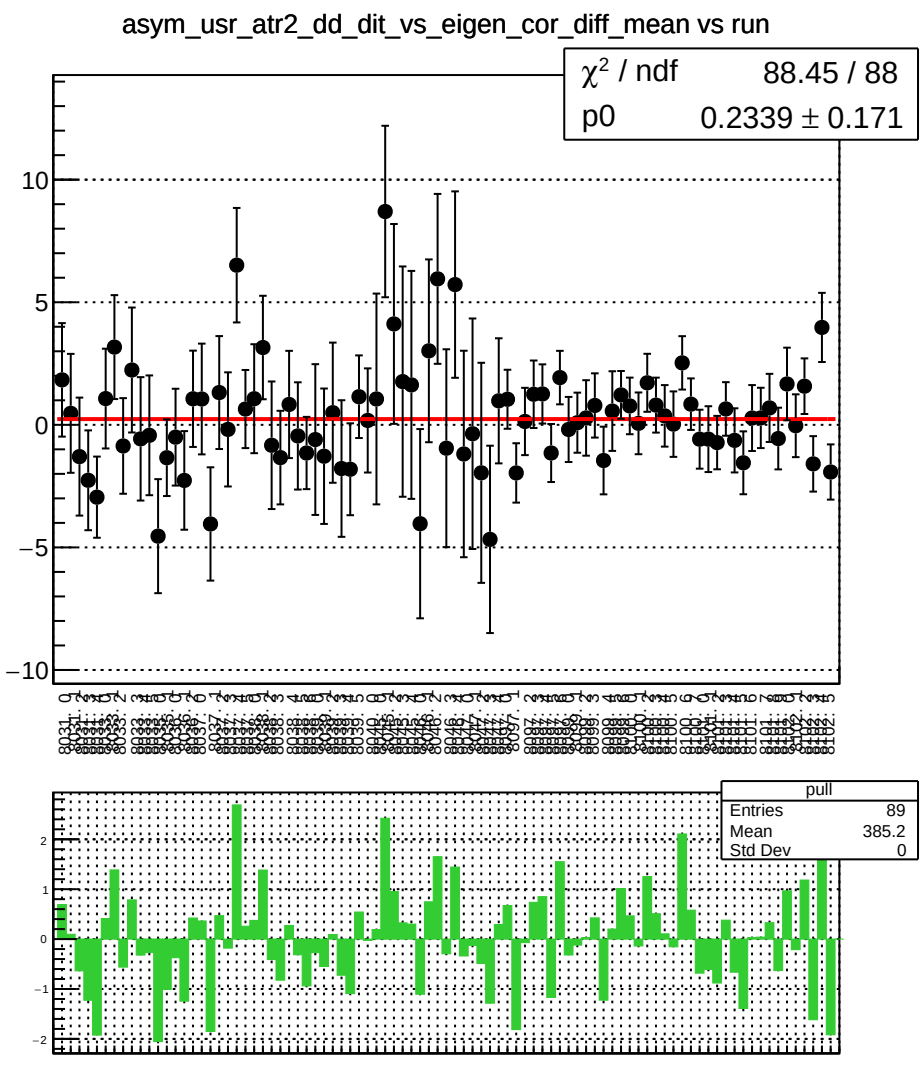

pull1D
Entries 89
Mean −0.1301
Std Dev 1.02
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

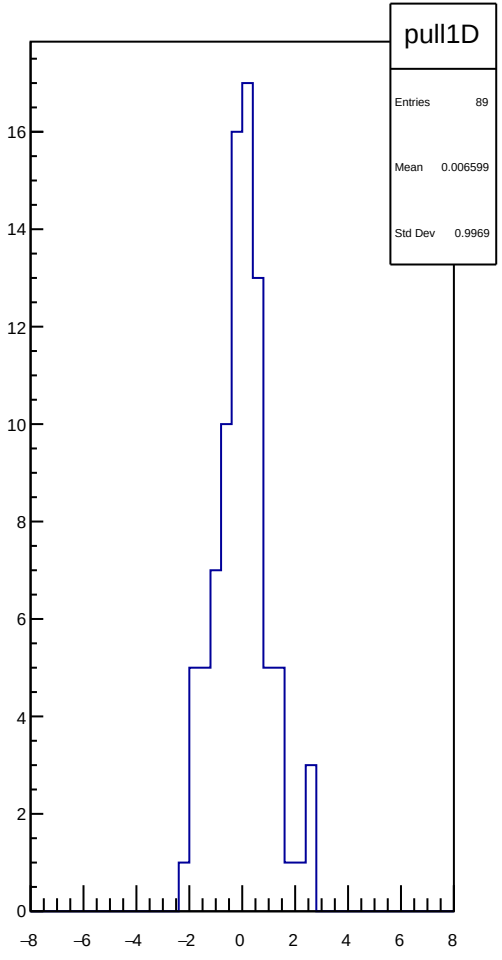

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.076e+06 / 88
p0 3.555e−10 ± 4.338e−13
1
0.8
0.6
0.4
0.2
0

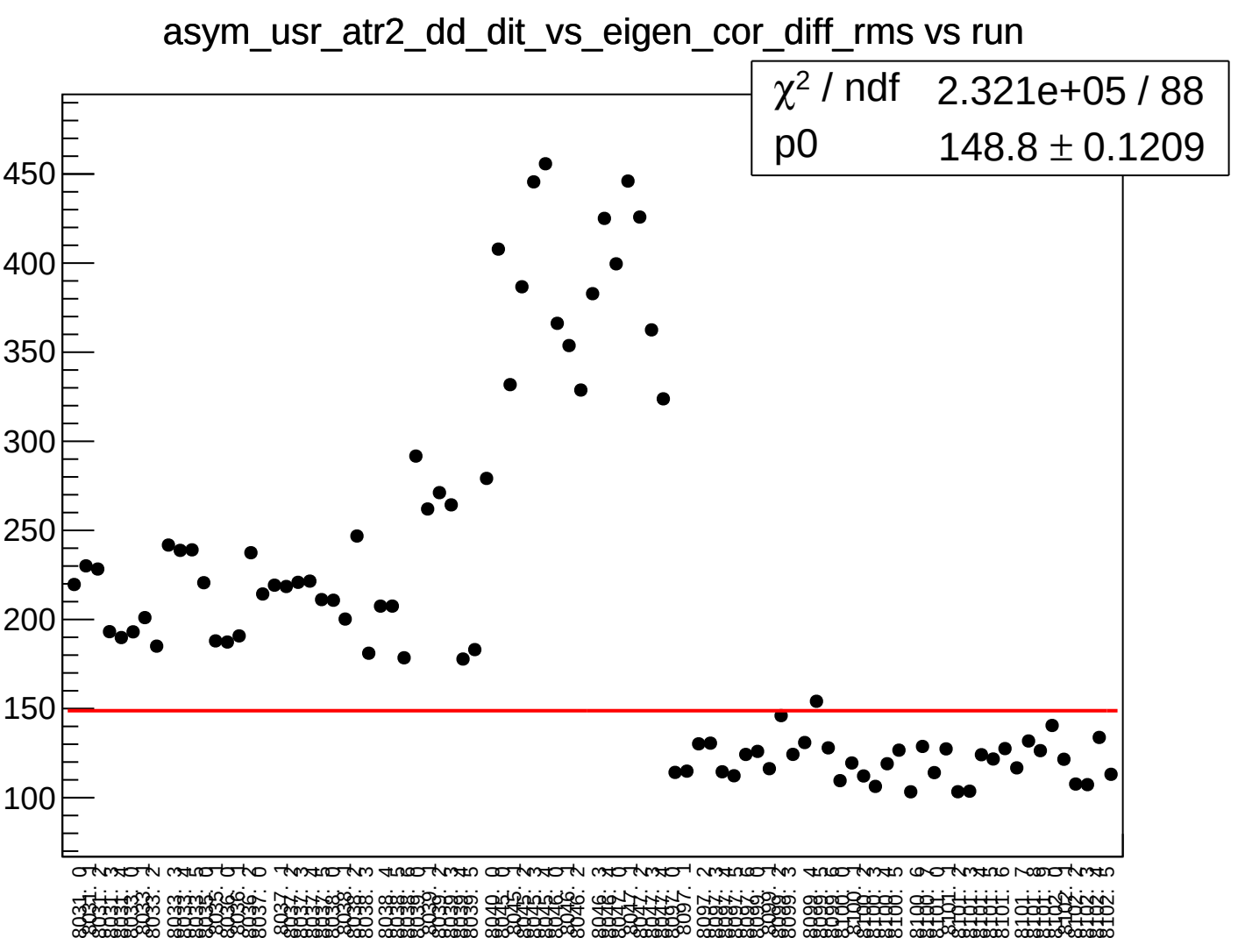

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 88.45 / 88
p0 0.2339 ± 0.171
pull
Entries 89
Mean 385.2
Std Dev 0

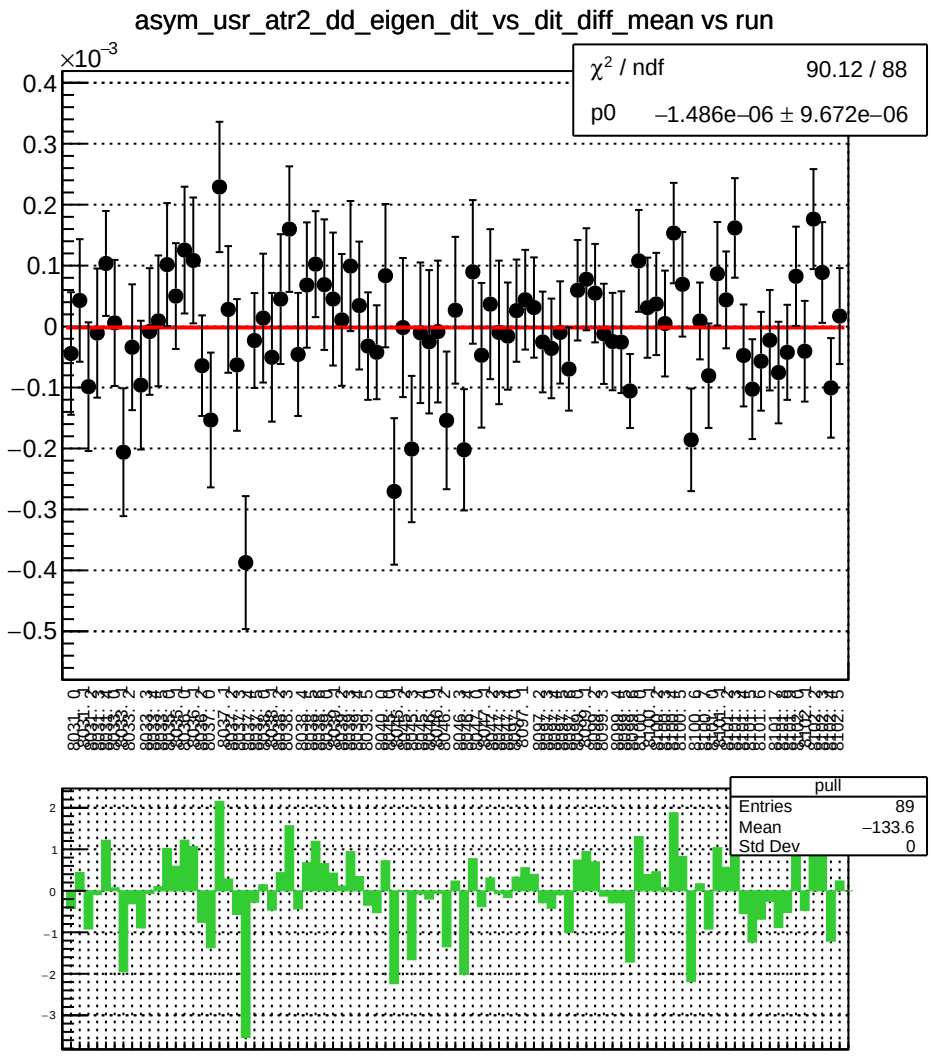

pull1D
Entries 89
Mean 0.006599
Std Dev 0.9969

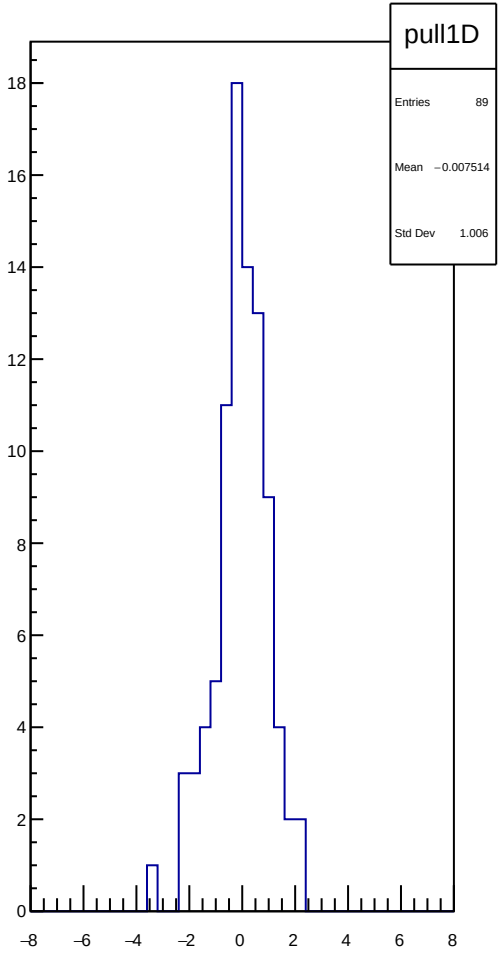

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 2.321e+05 / 88
p0 148.8 ± 0.1209
450
400
350
300
250
200
150
100

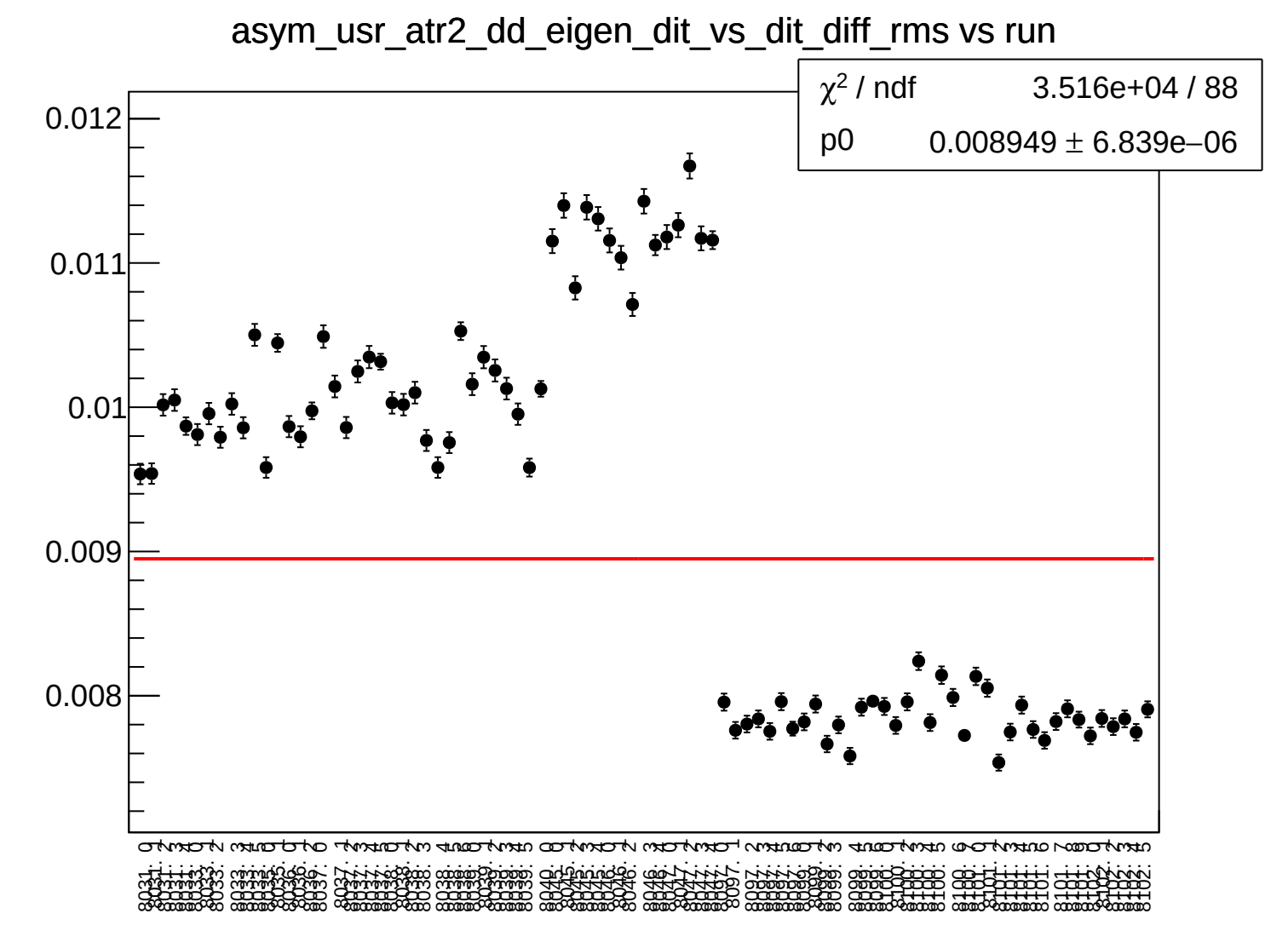

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.45 / 88
p0 0.2339 ± 0.171
pull
Entries 89
Mean 385.2
Std Dev 0

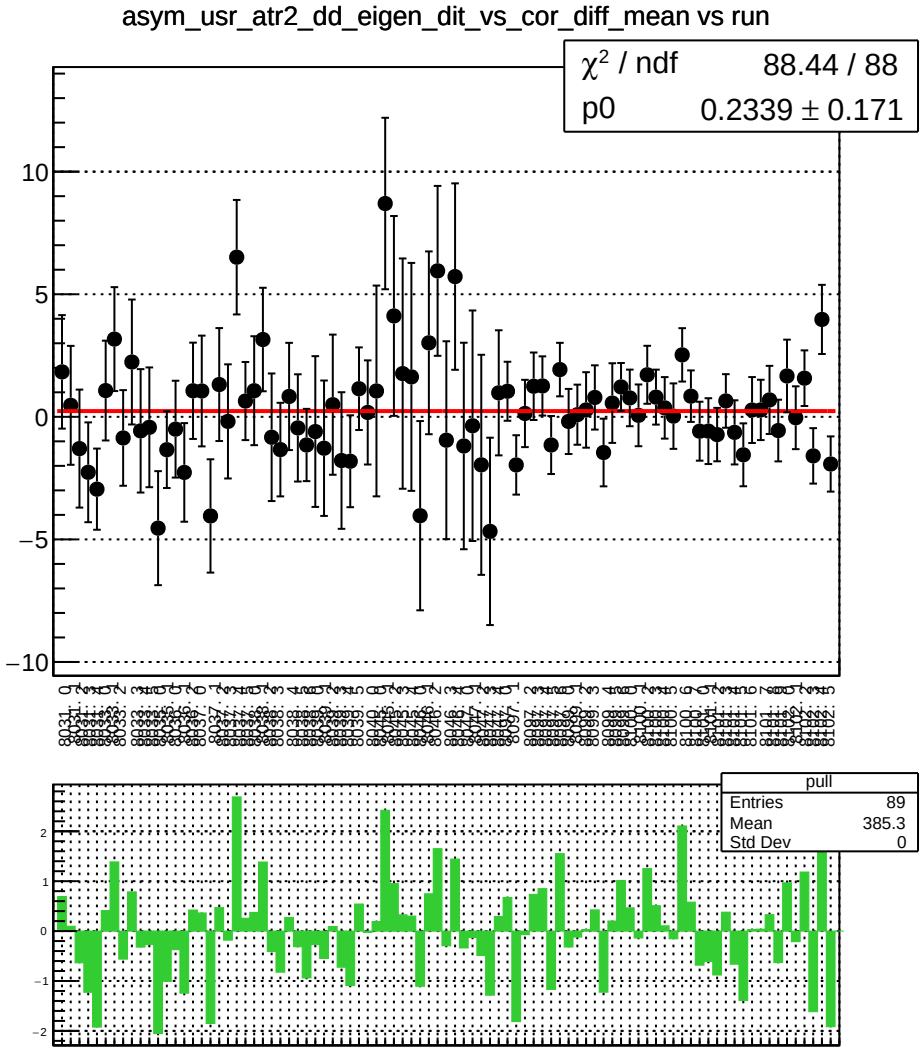

pull1D
Entries 89
Mean 0.006599
Std Dev 0.9969

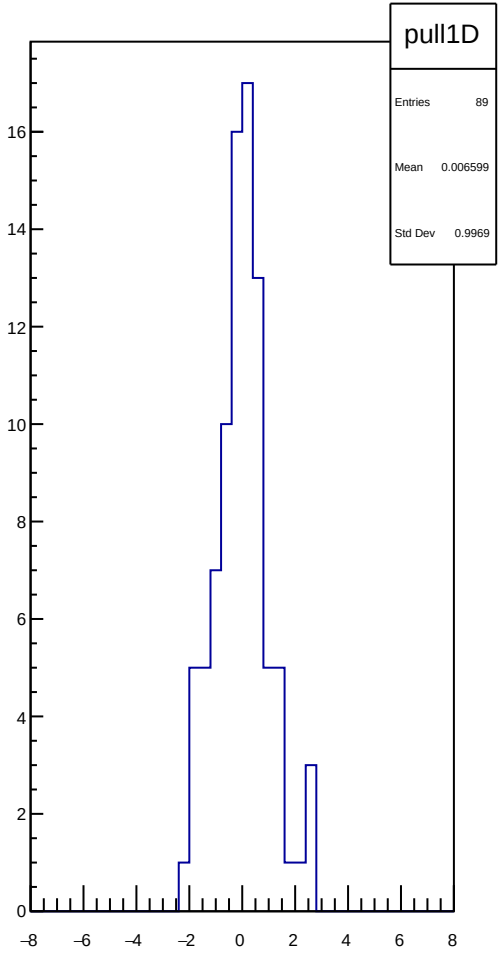

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.321e+05 / 88
p0 148.8 ± 0.1209
450
400
350
300
250
200
150
100

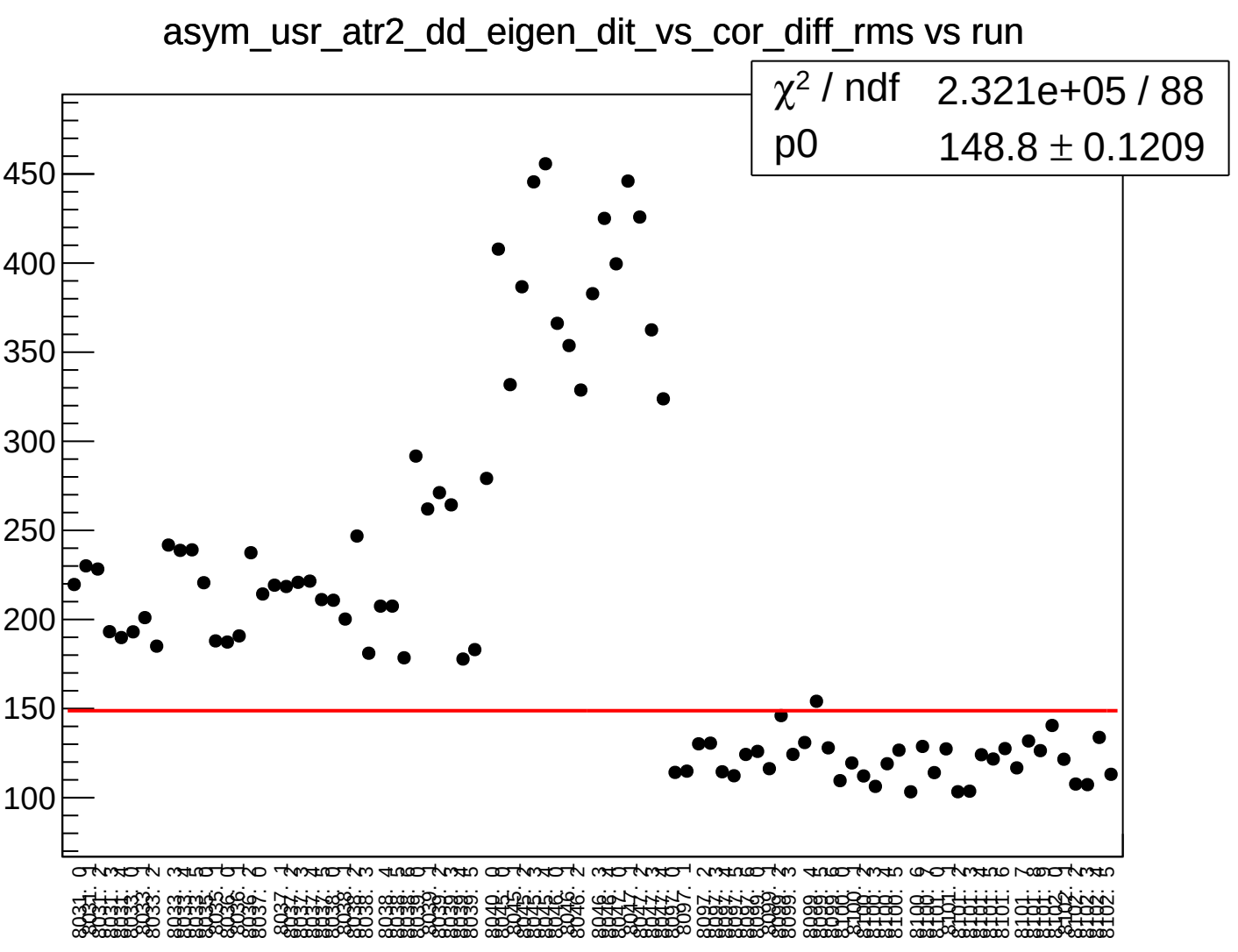

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 90.12 / 88
p0 −1.486e−06 ± 9.672e−06
pull
Entries 89
Mean −133.6
Std Dev 0

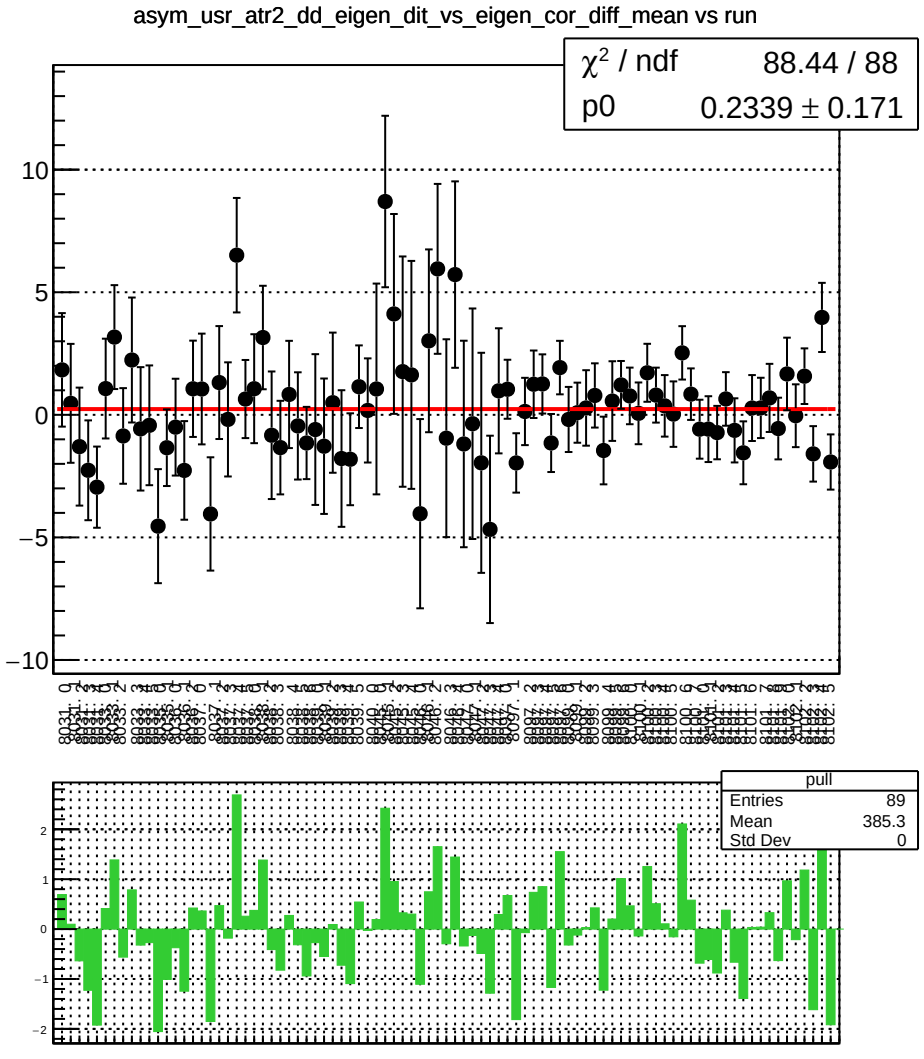

pull1D
Entries 89
Mean −0.007514
Std Dev 1.006

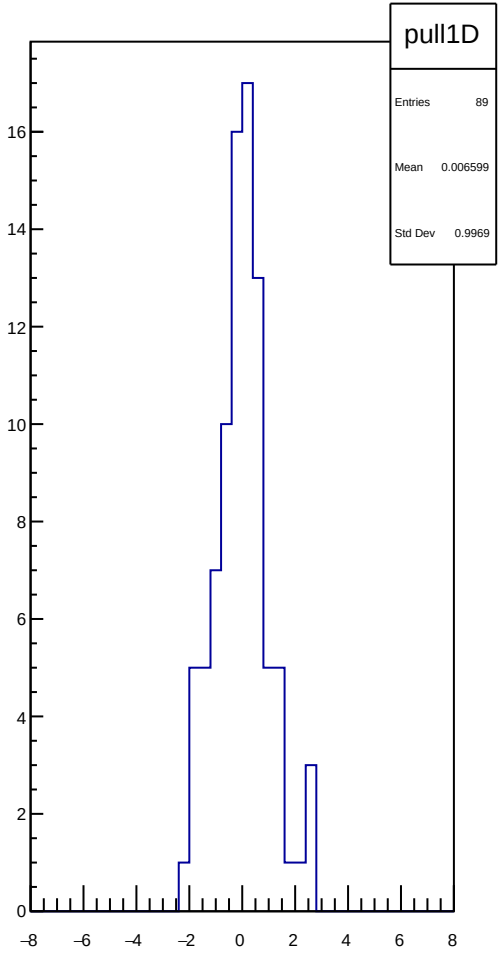

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.516e+04 / 88
p0 0.008949 ± 6.839e−06
0.012
0.011
0.01
0.009
0.008

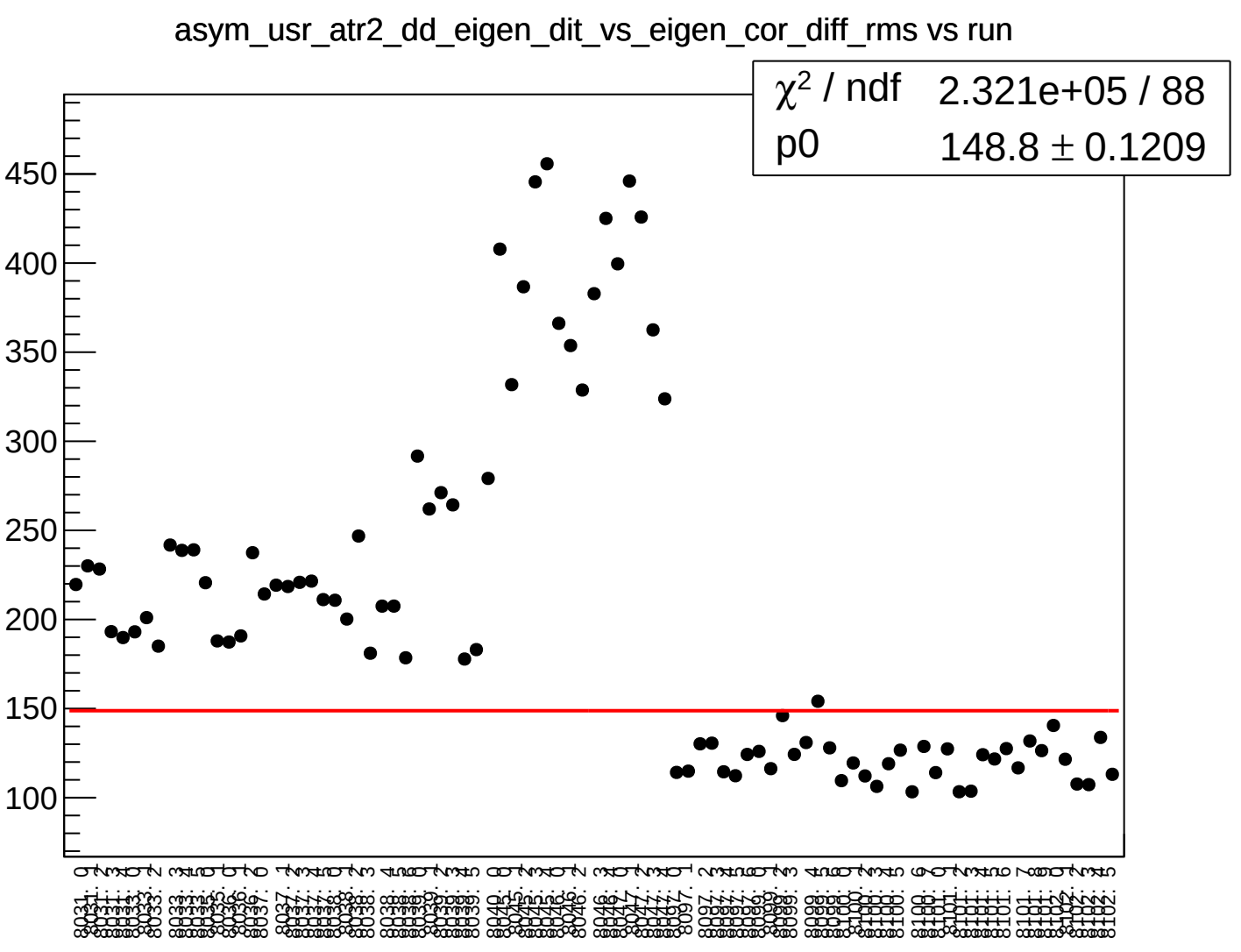

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.44 / 88
p0 0.2339 ± 0.171
pull
Entries 89
Mean 385.3
Std Dev 0

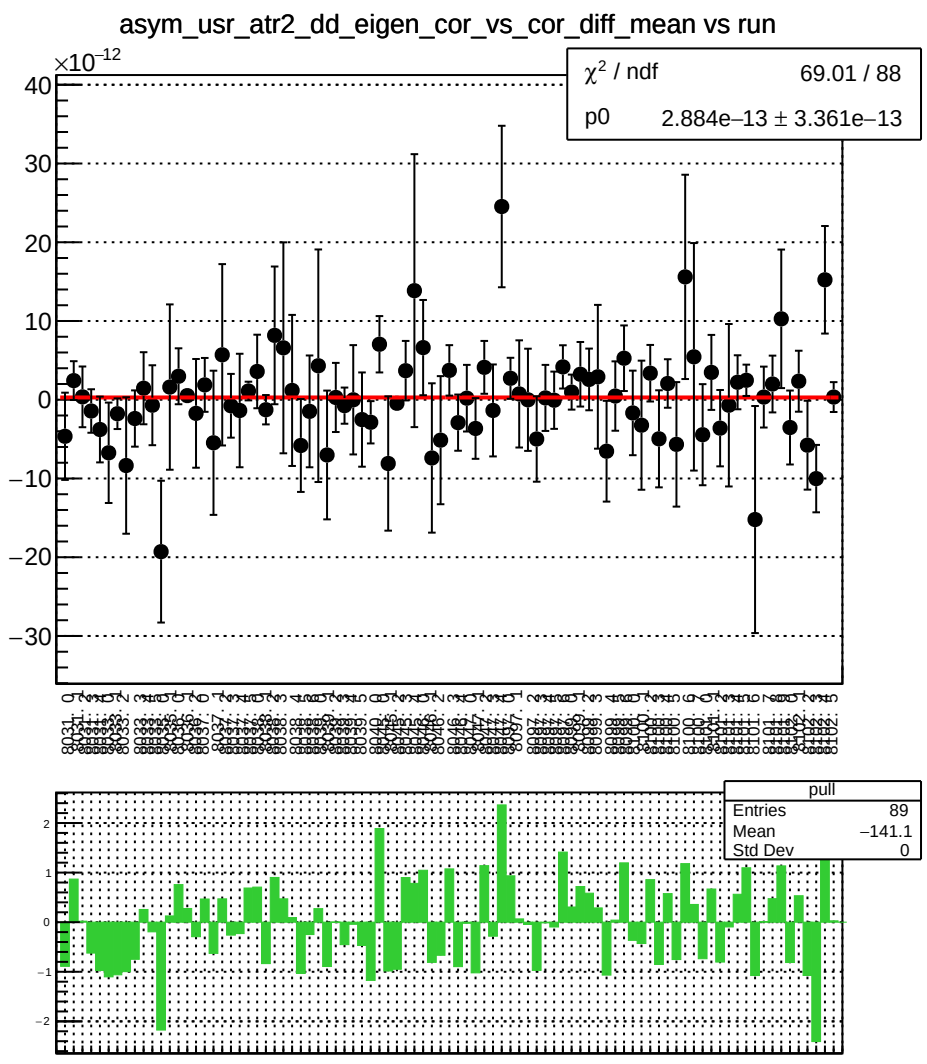

pull1D
Entries 89
Mean 0.006599
Std Dev 0.9969

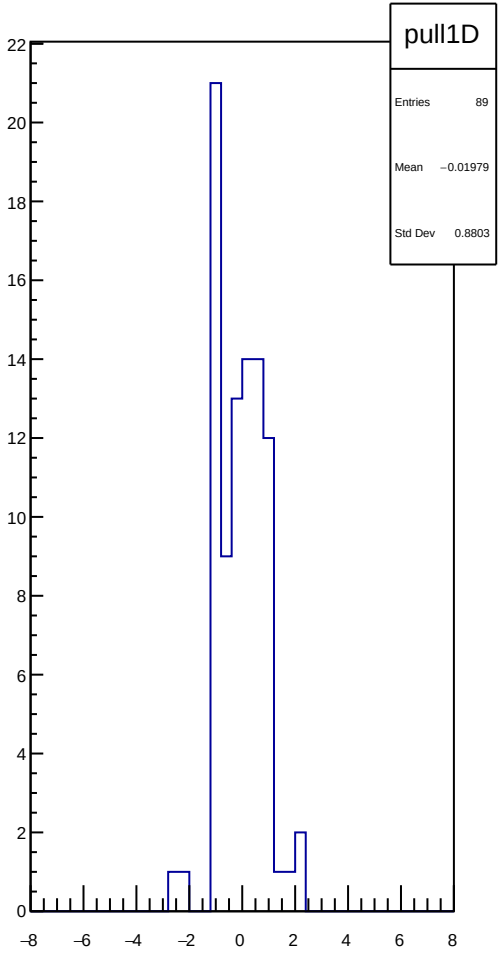

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.321e+05 / 88
p0 148.8 ± 0.1209
450
400
350
300
250
200
150
100

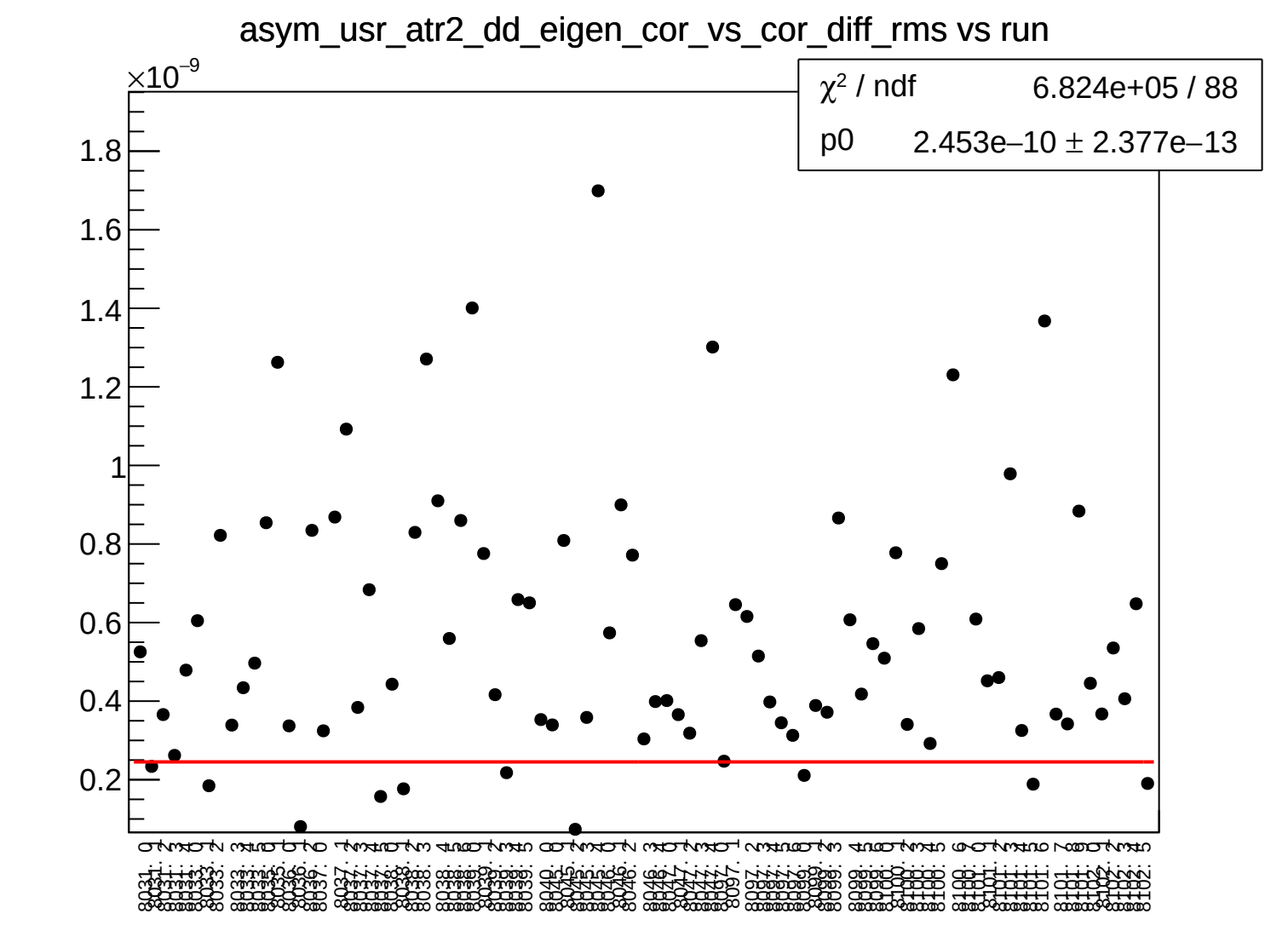

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.44 / 88
p0 0.2339 ± 0.171
pull
Entries 89
Mean 385.3
Std Dev 0

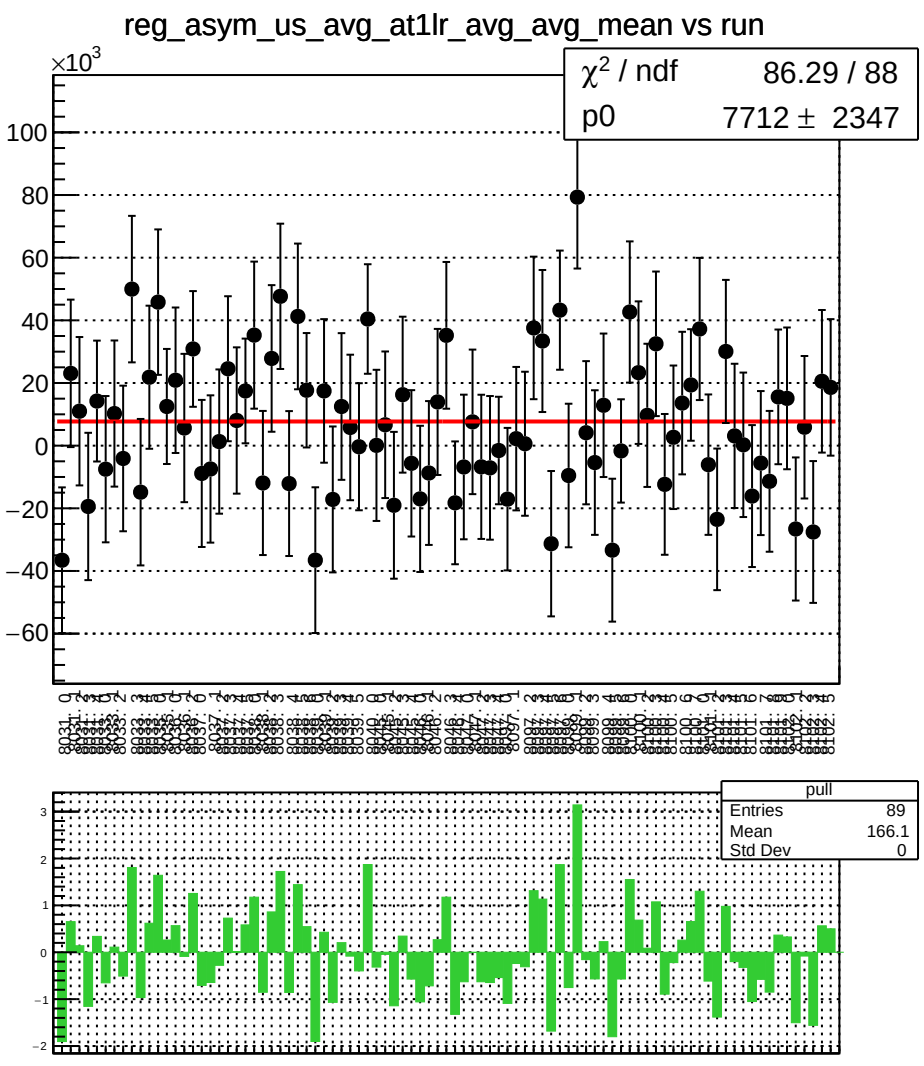

pull1D
Entries 89
Mean 0.006599
Std Dev 0.9969

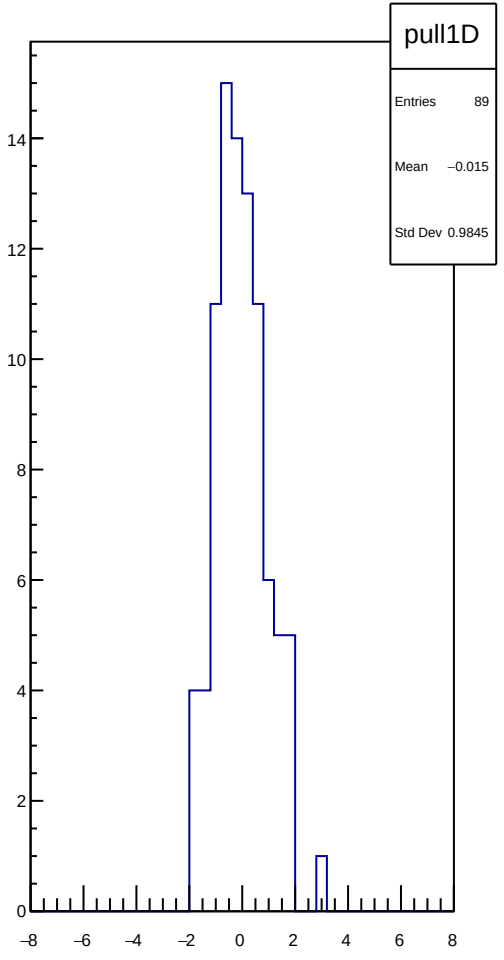

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.321e+05 / 88
p0 148.8 ± 0.1209
450
400
350
300
250
200
150
100

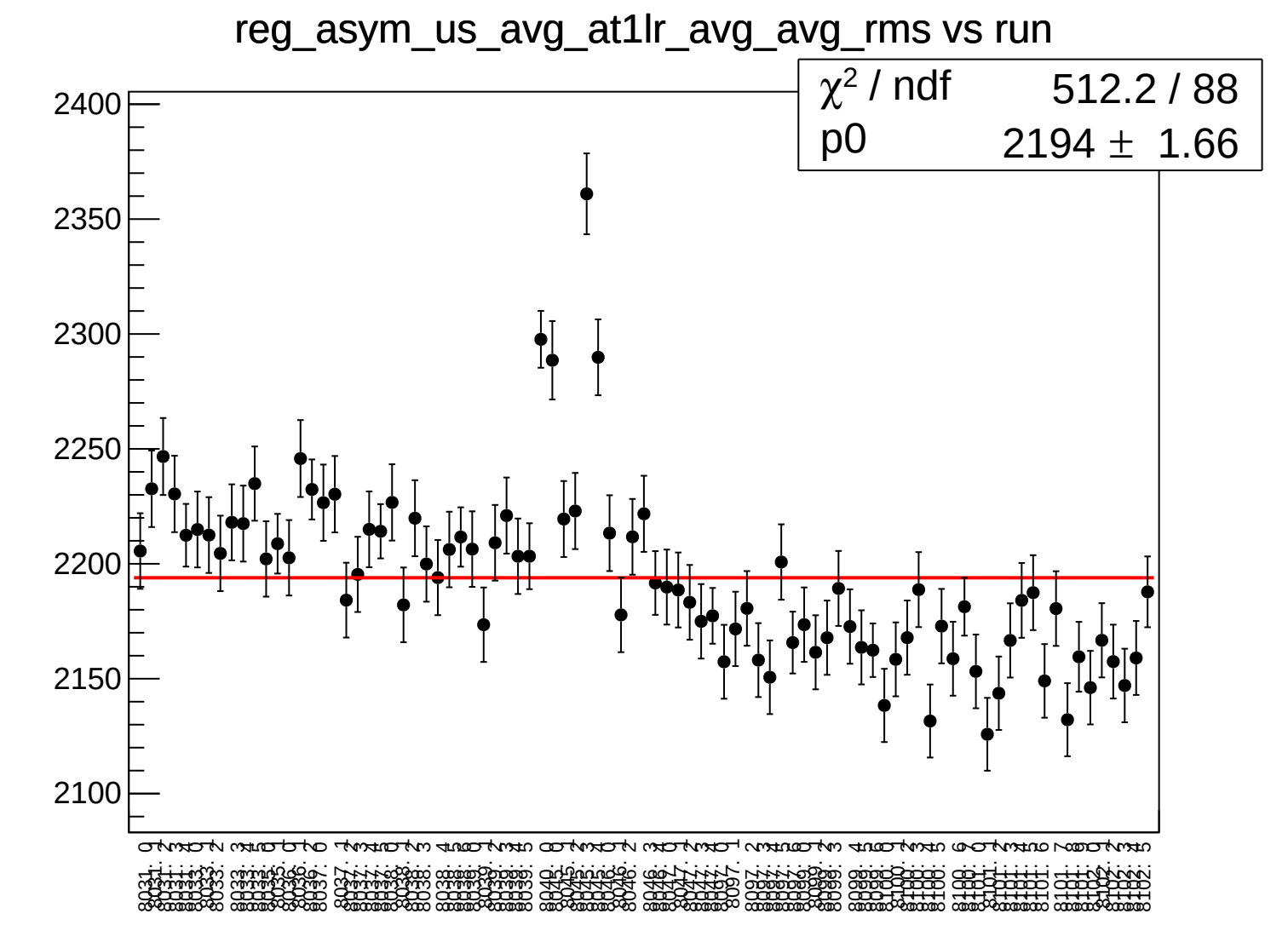

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 69.01 / 88
p0 2.884e−13 ± 3.361e−13
pull
Entries 89
Mean −141.1
Std Dev 0

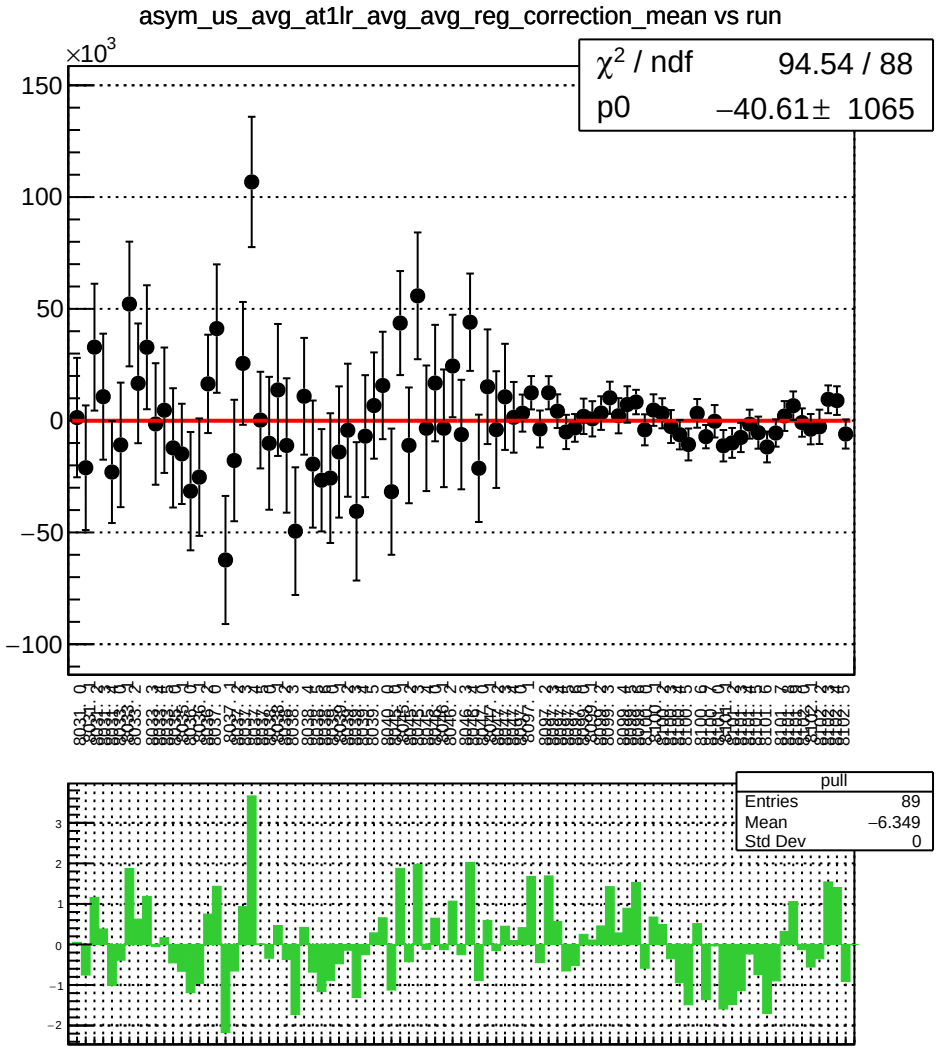

pull1D
Entries 89
Mean −0.01979
Std Dev 0.8803

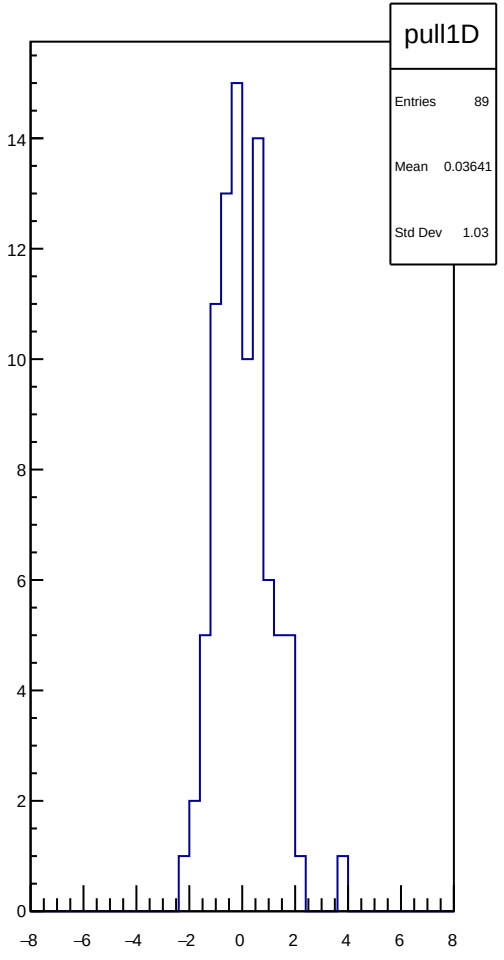

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.824e+05 / 88
p0 2.453e−10 ± 2.377e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

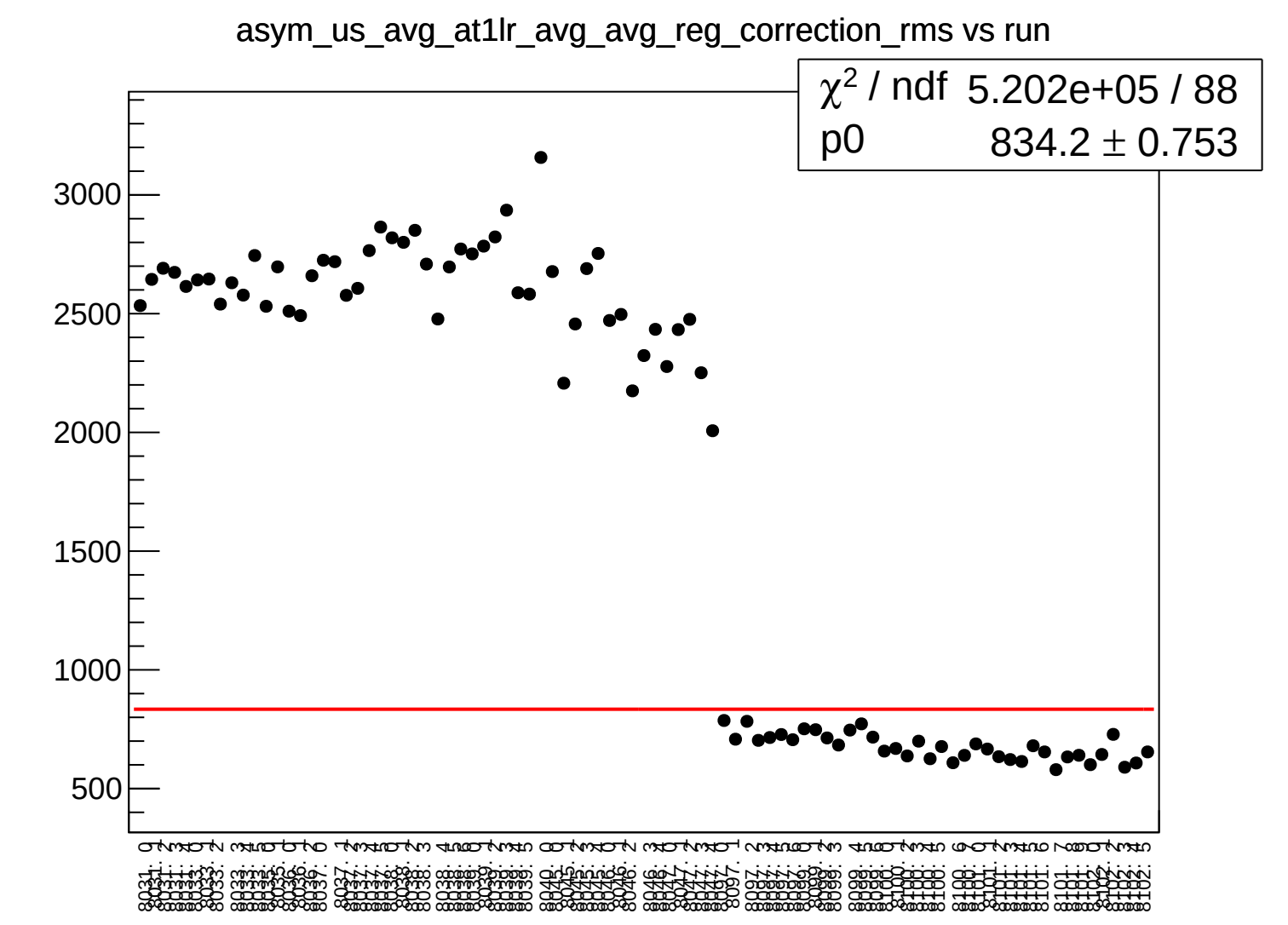

reg_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 86.29 / 88
p0 7712 ± 2347
pull
Entries 89
Mean 166.1
Std Dev 0

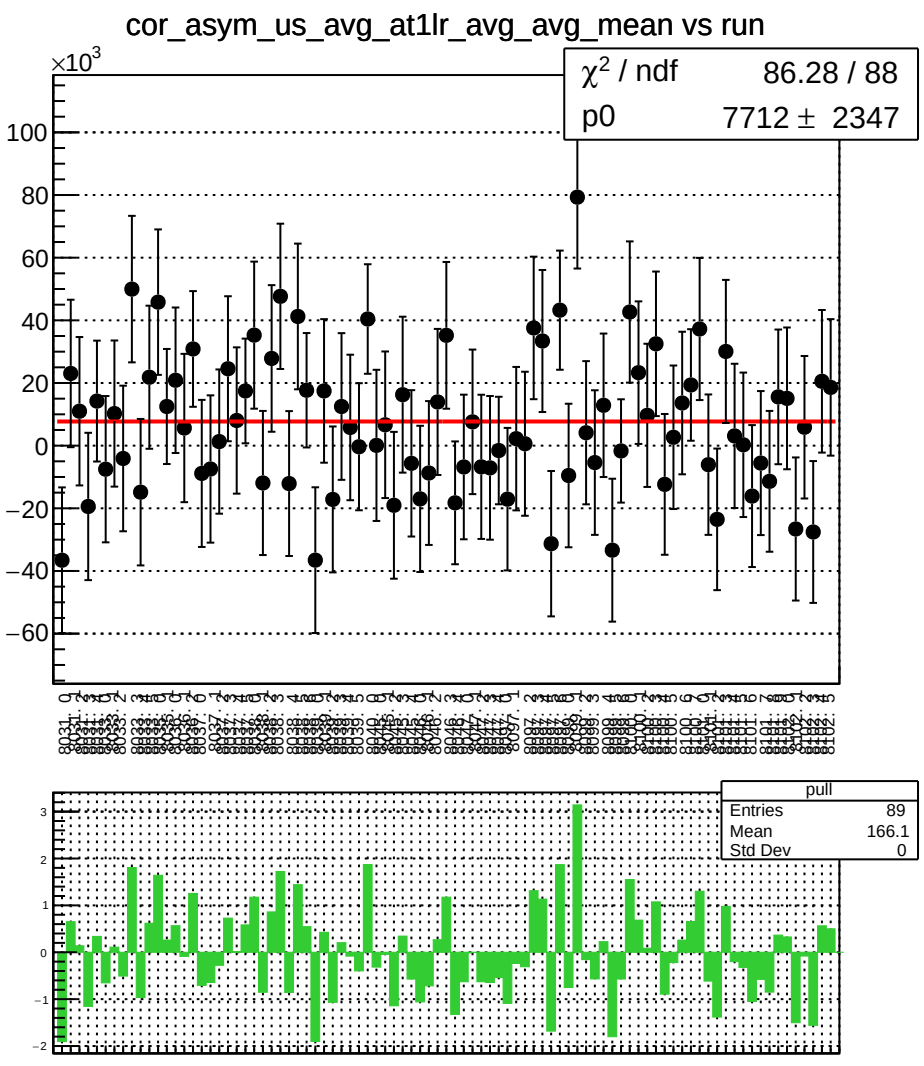

pull1D
Entries 89
Mean −0.015
Std Dev 0.9845

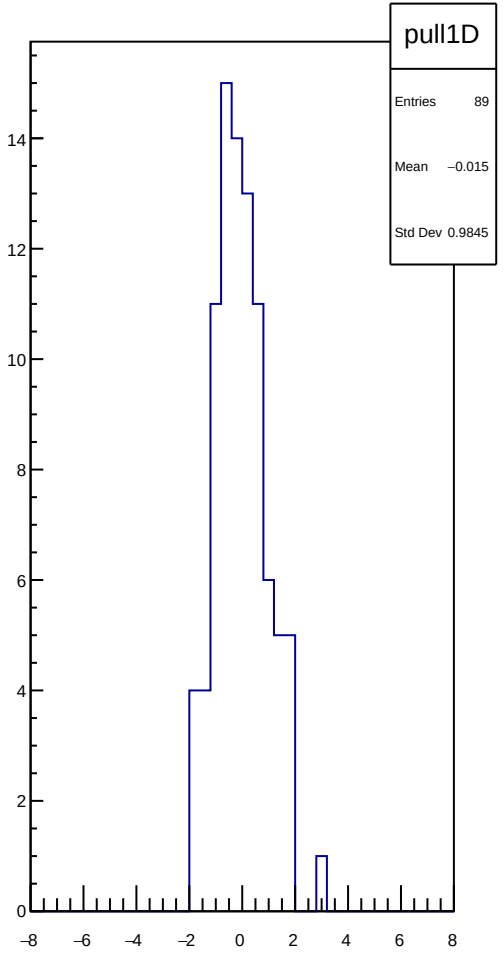

reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 512.2 / 88
p0 2194 ± 1.66
2400
2350
2300
2250
2200
2150
2100

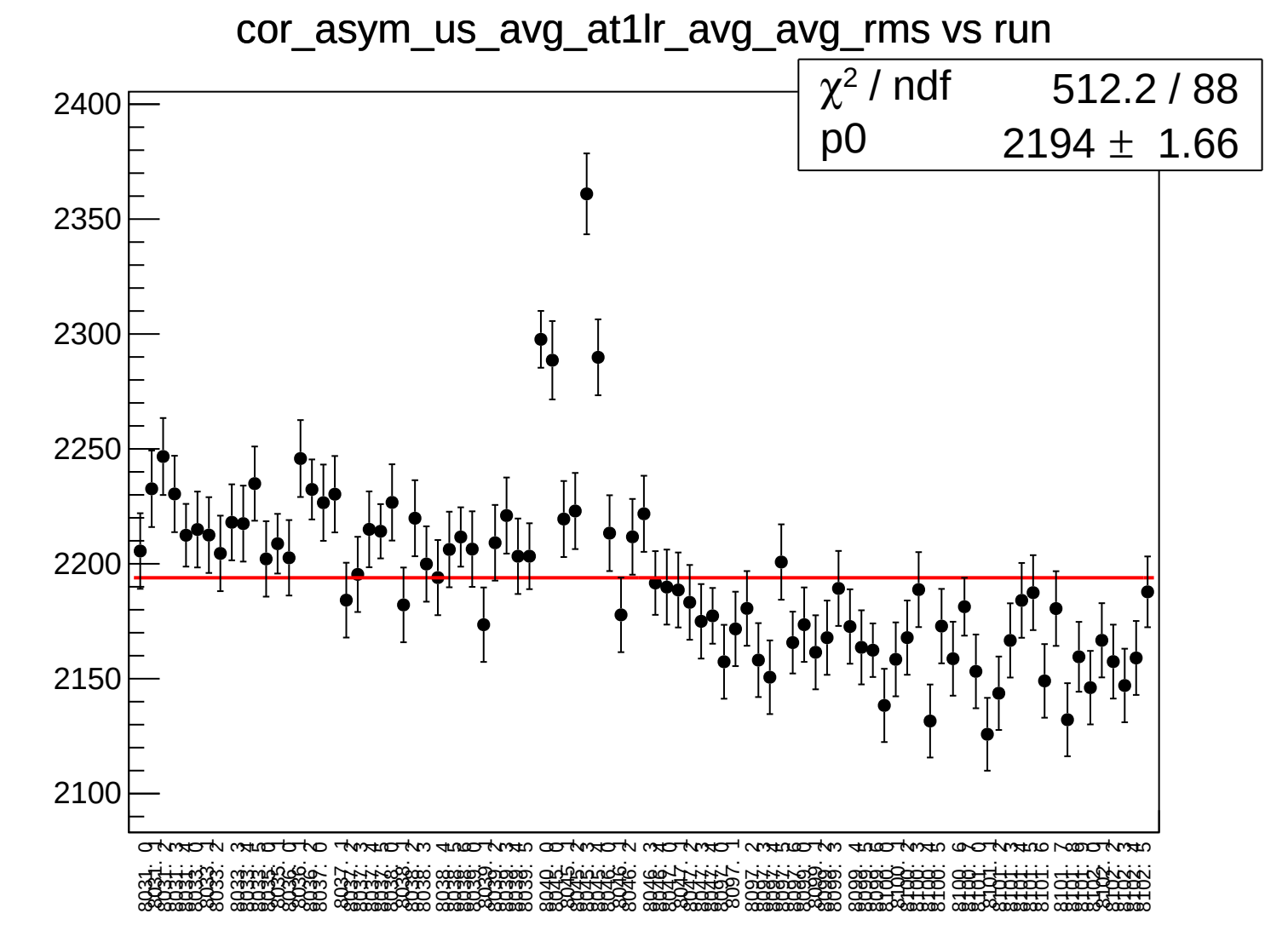

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 94.54 / 88
p0 −40.61± 1065
150
100
50
0
−50
−100
pull
Entries 89
Mean −6.349
Std Dev 0
3
2
1
0
−1
−2

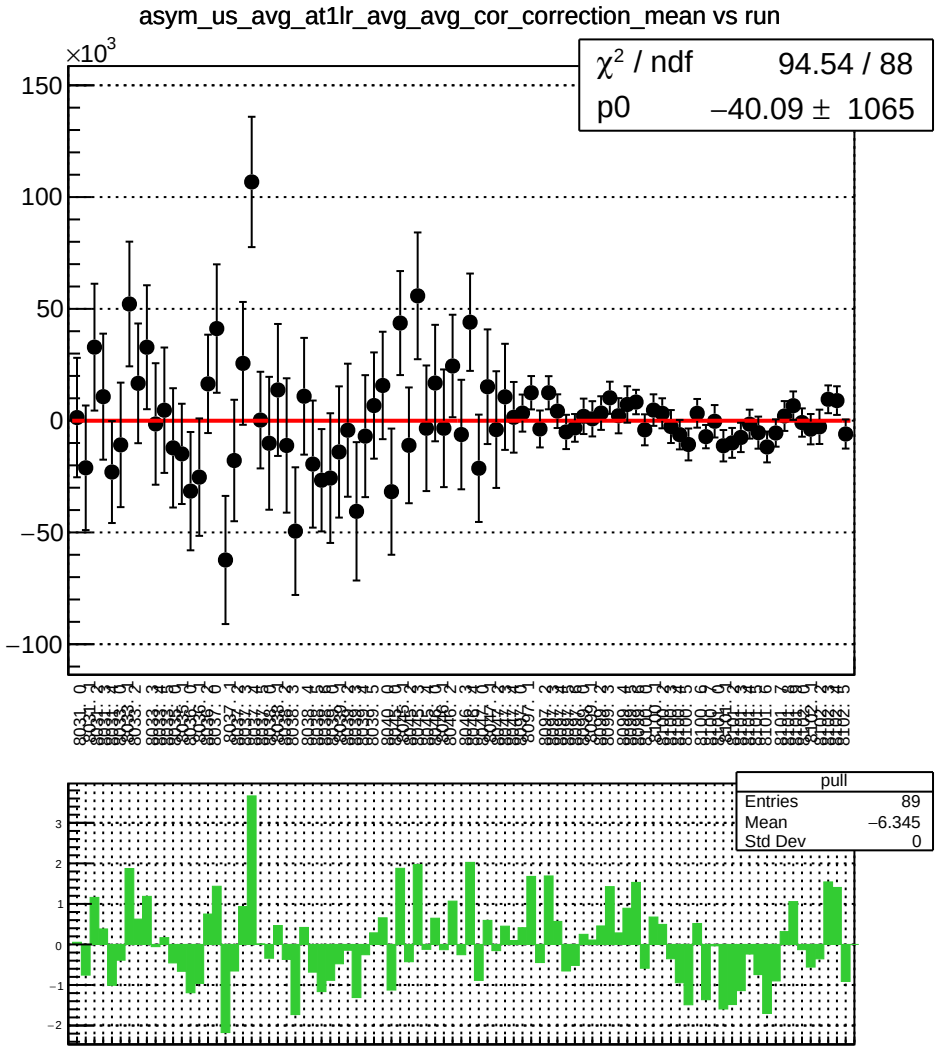

pull1D
Entries 89
Mean 0.03641
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

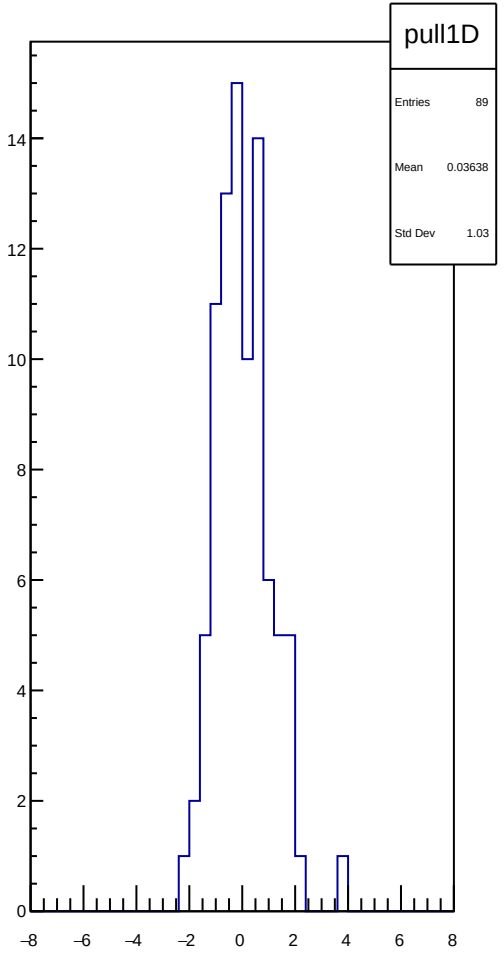

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ² / ndf 5.202e+05 / 88
p0 834.2 ± 0.753
3000
2500
2000
1500
1000
500

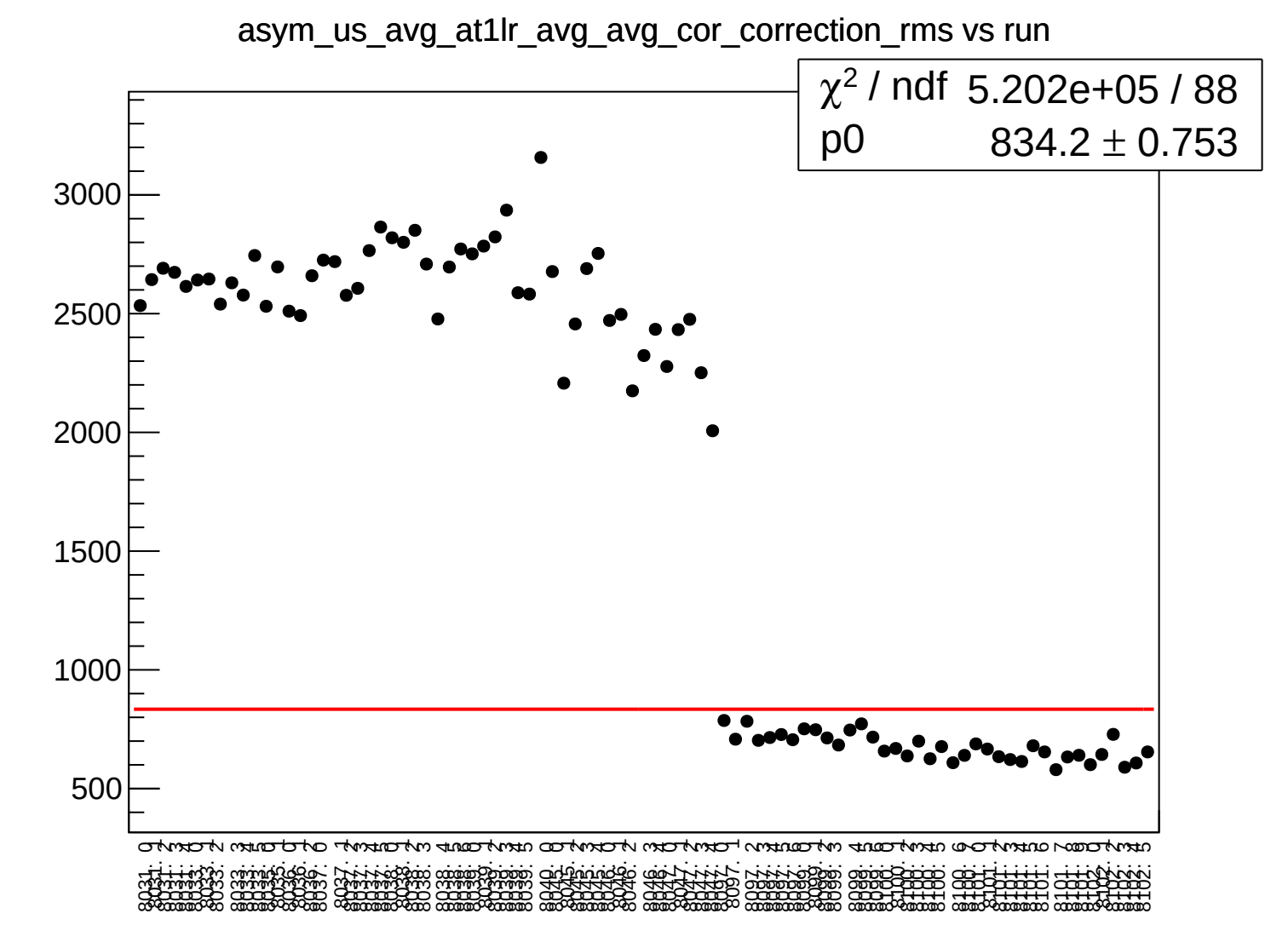

cor_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 86.28 / 88
p0 7712 ± 2347
100
80
60
40
20
0
−20
−40
−60
pull
Entries 89
Mean 166.1
Std Dev 0
3
2
1
0
−1
−2

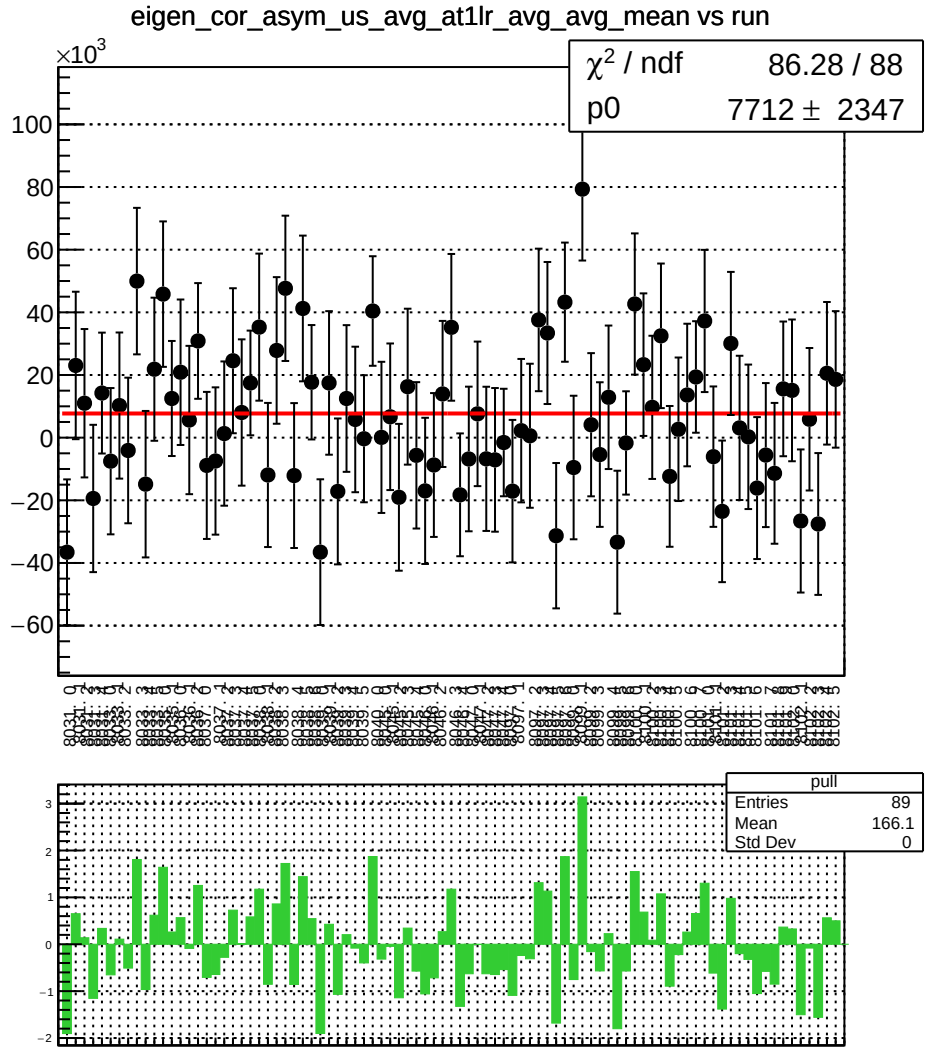

pull1D
Entries 89
Mean −0.015
Std Dev 0.9845
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

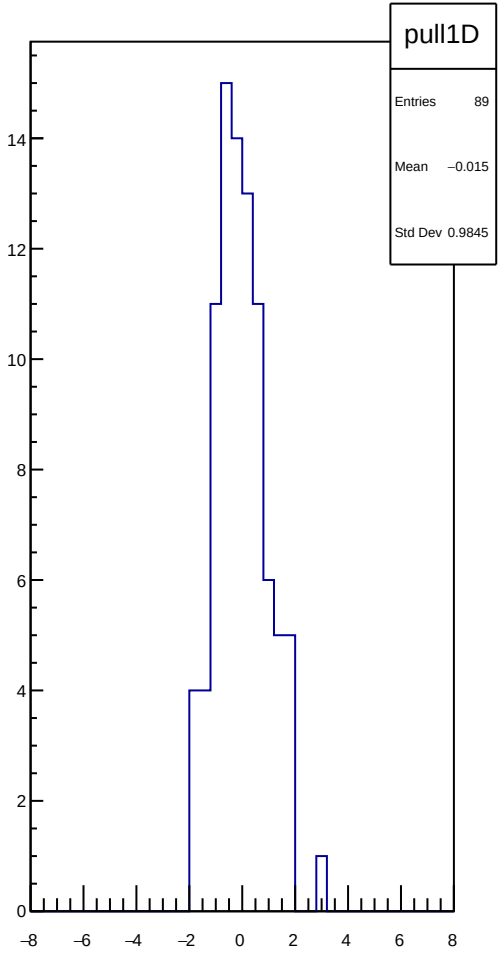

cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 512.2 / 88
p0 2194 ± 1.66
2400
2350
2300
2250
2200
2150
2100

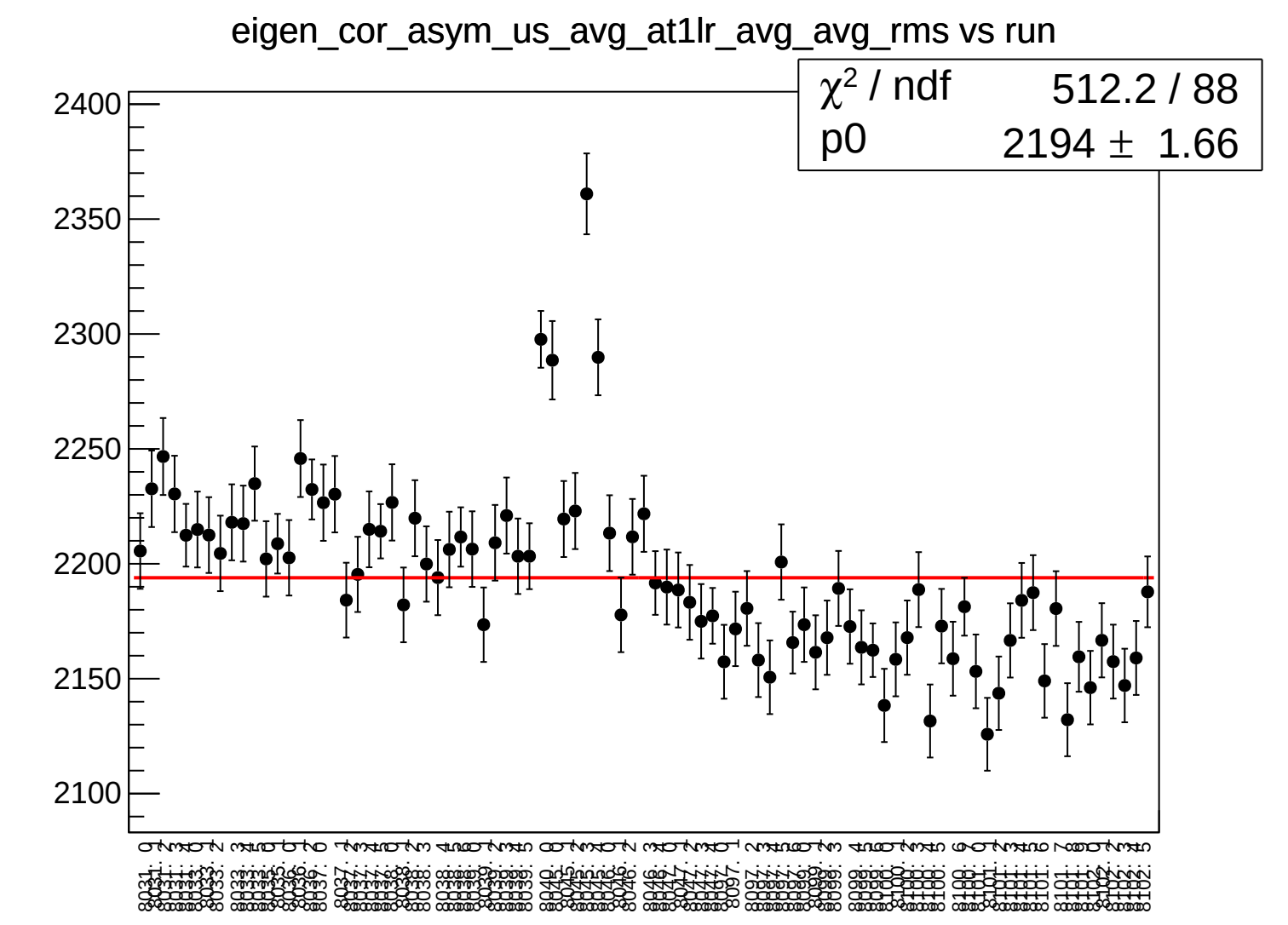

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 94.54 / 88
p0 −40.09 ± 1065
150
100
50
0
−50
−100
pull
Entries 89
Mean −6.345
Std Dev 0
3
2
1
0
−1
−2

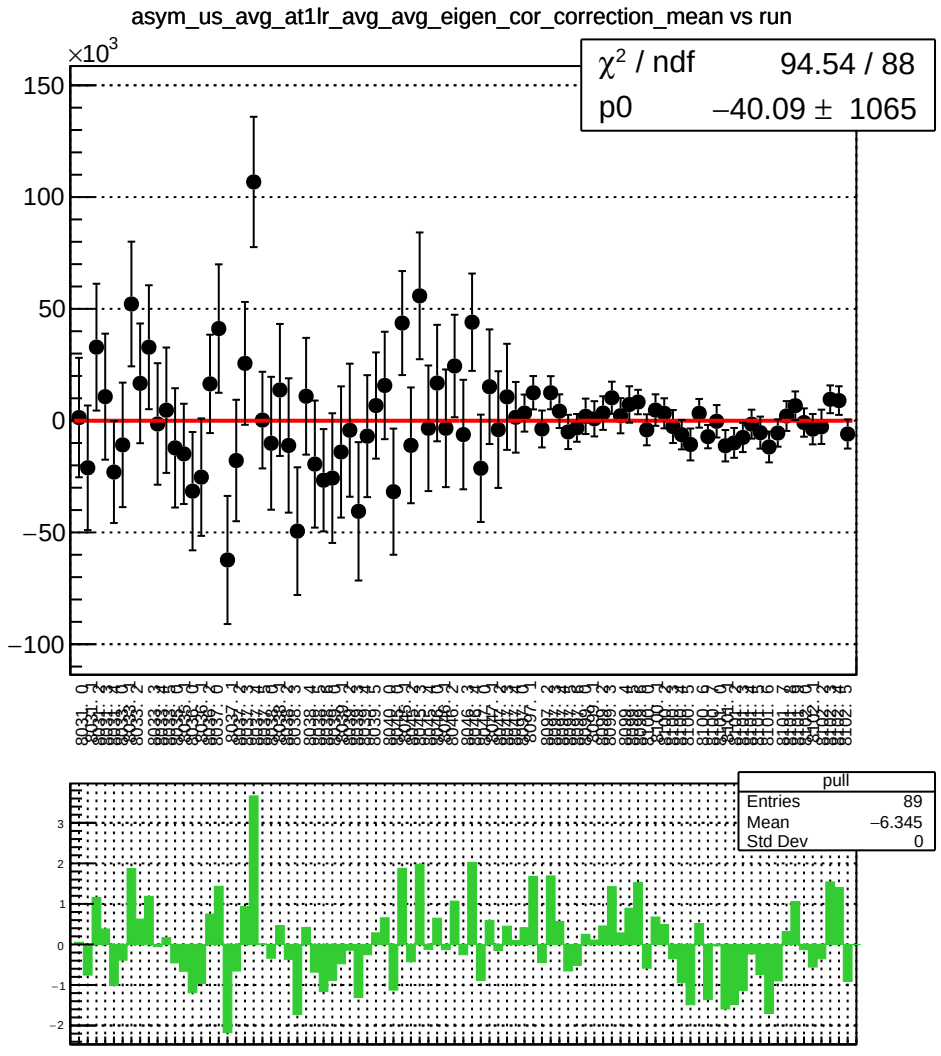

pull1D
Entries 89
Mean 0.03638
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

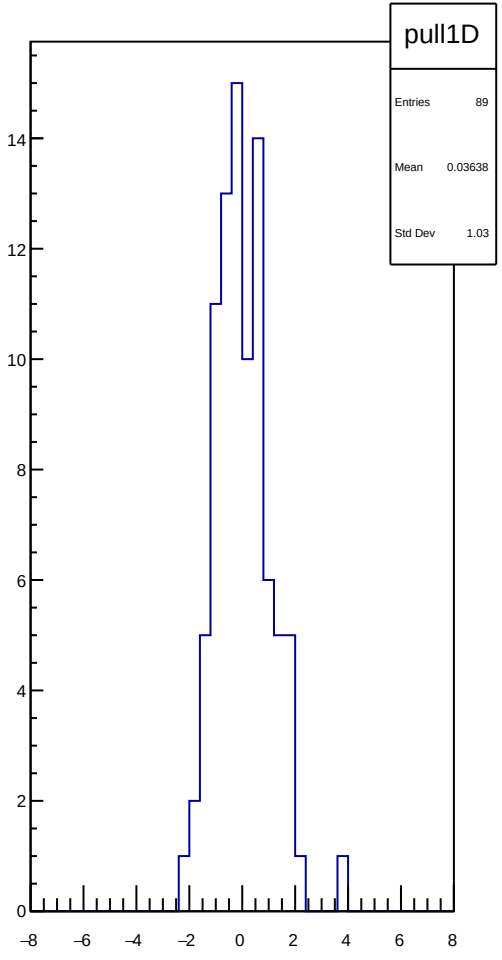

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 5.202e+05 / 88
p0 834.2 ± 0.753
3000
2500
2000
1500
1000
500

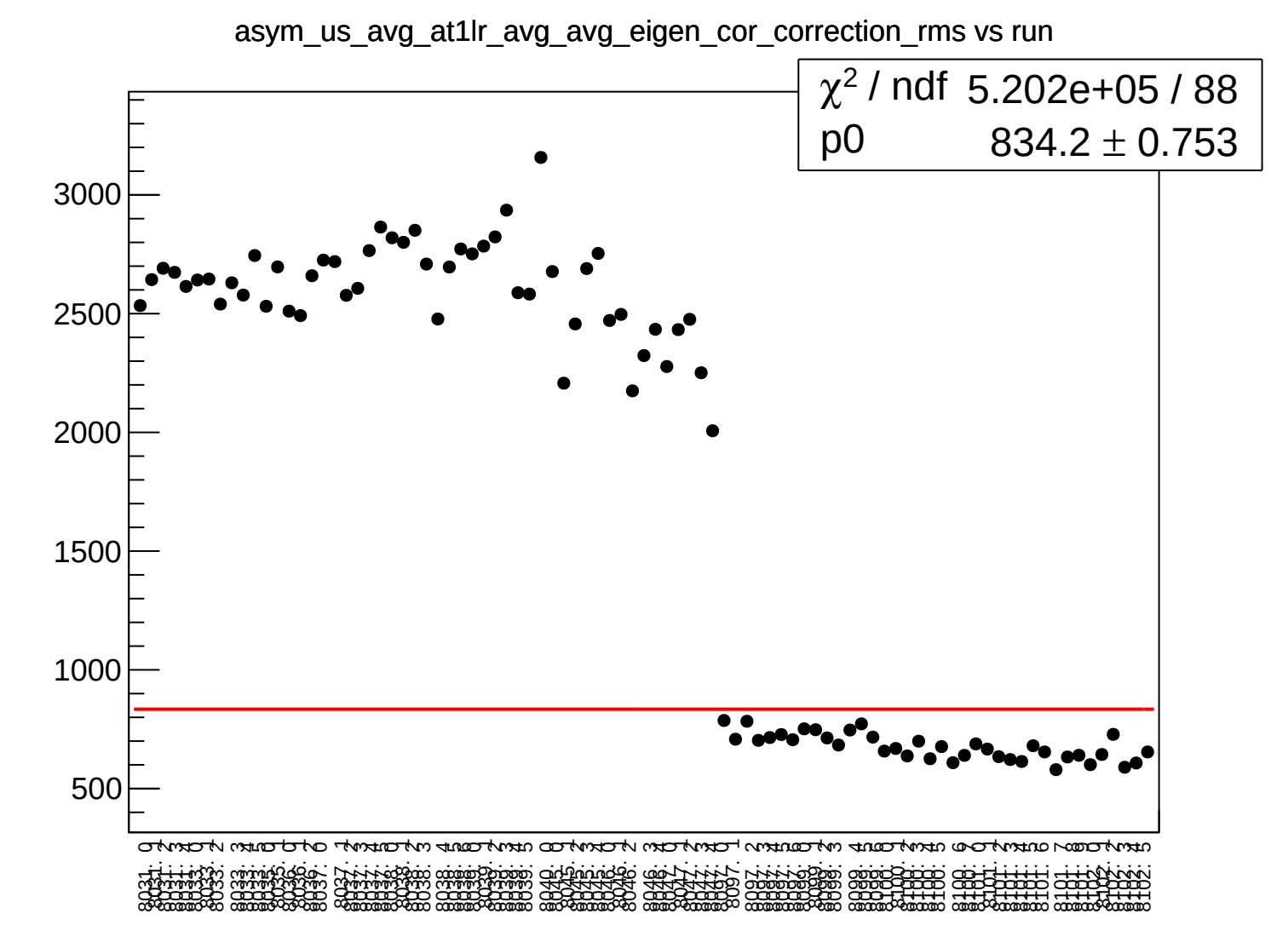

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 86.28 / 88
p0 7712 ± 2347
100
80
60
40
20
0
−20
−40
−60
pull
Entries 89
Mean 166.1
Std Dev 0
3
2
1
0
−1
−2

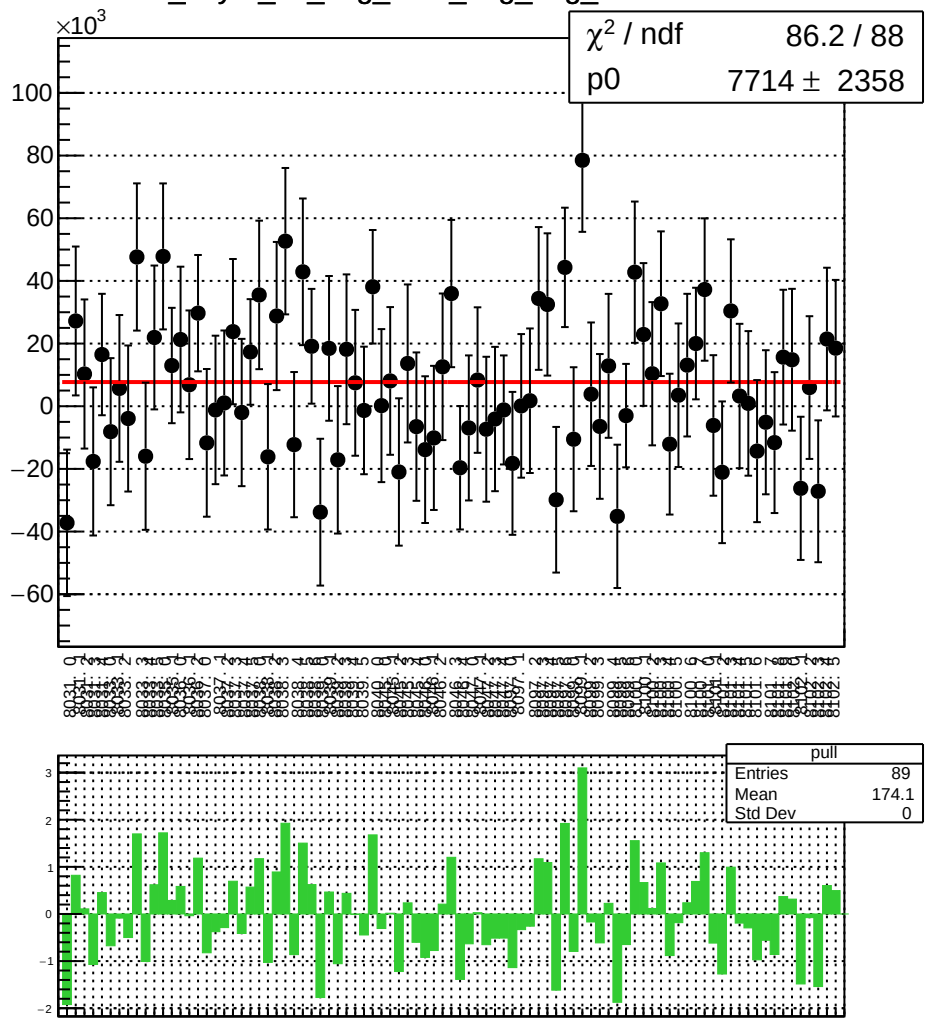

pull1D
Entries 89
Mean −0.015
Std Dev 0.9845
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

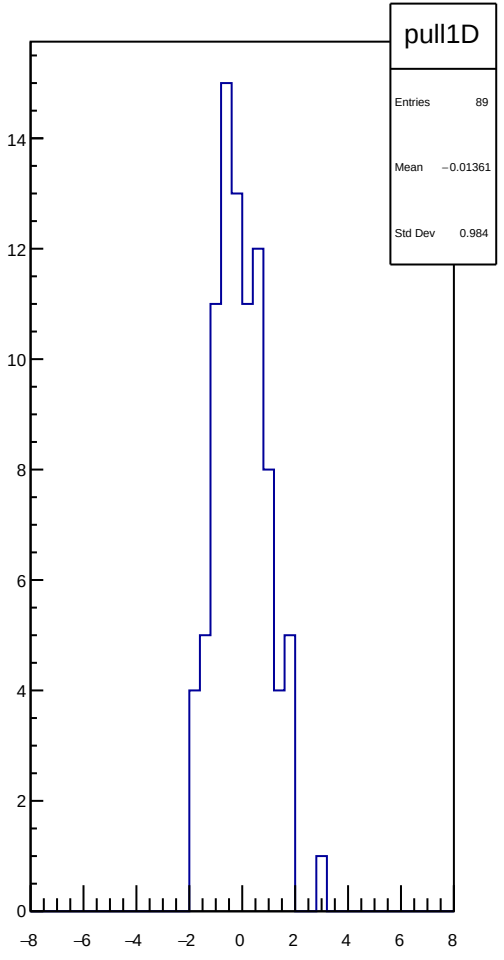

eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 512.2 / 88
p0 2194 ± 1.66
2400
2350
2300
2250
2200
2150
2100

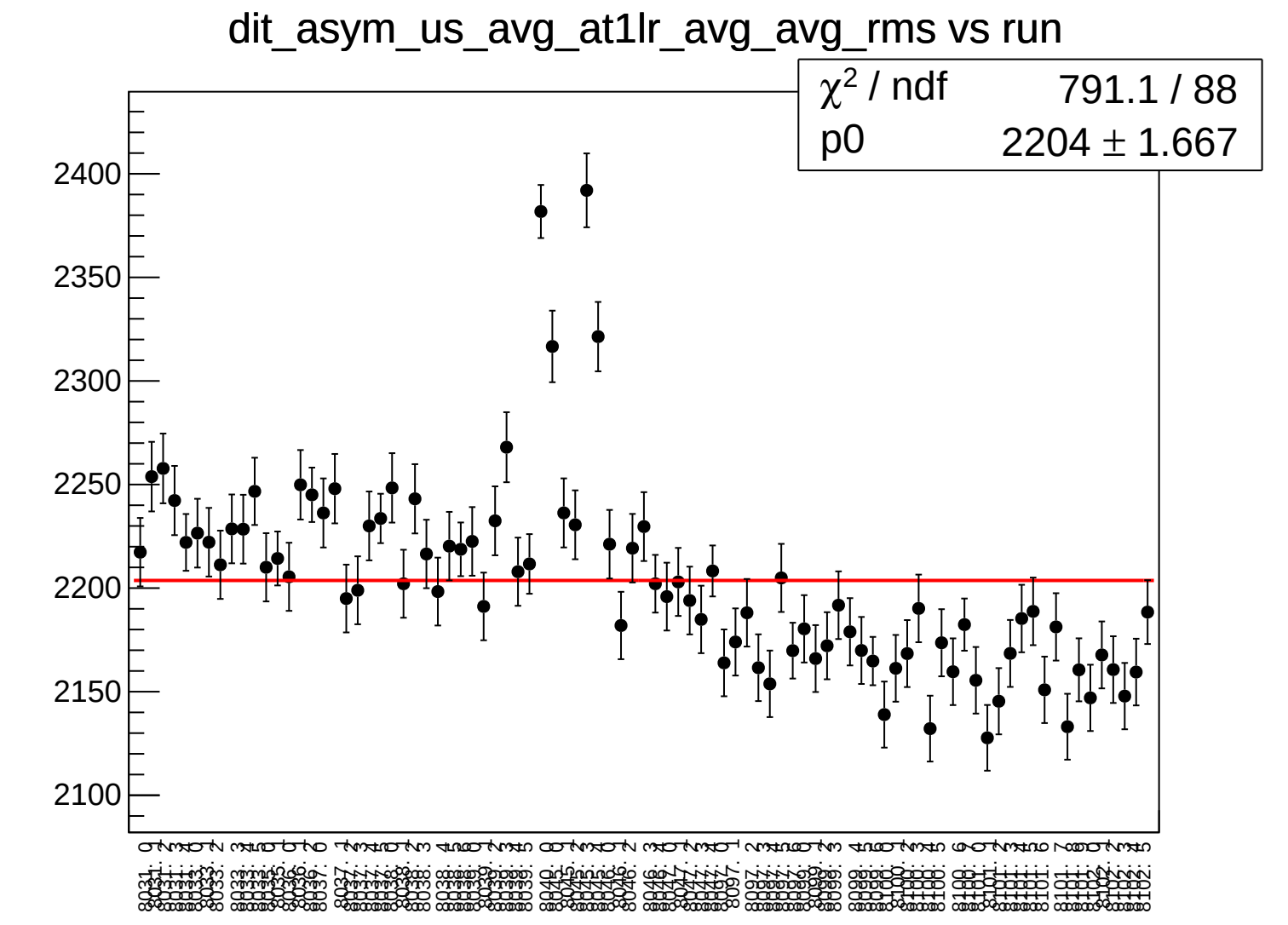

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 94.54 / 88
p0 −40.09 ± 1065
150
100
50
0
−50
−100
pull
Entries 89
Mean −6.345
Std Dev 0
3
2
1
0
−1
−2

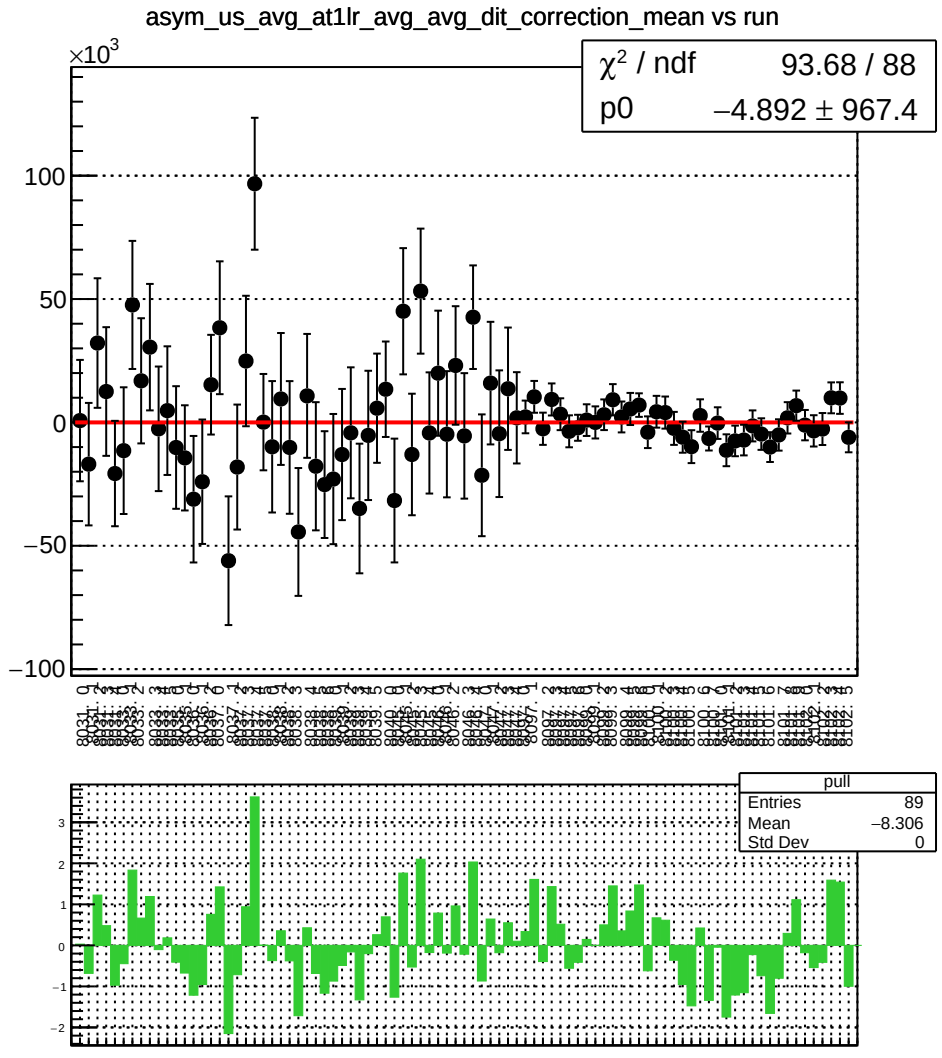

pull1D
Entries 89
Mean 0.03638
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

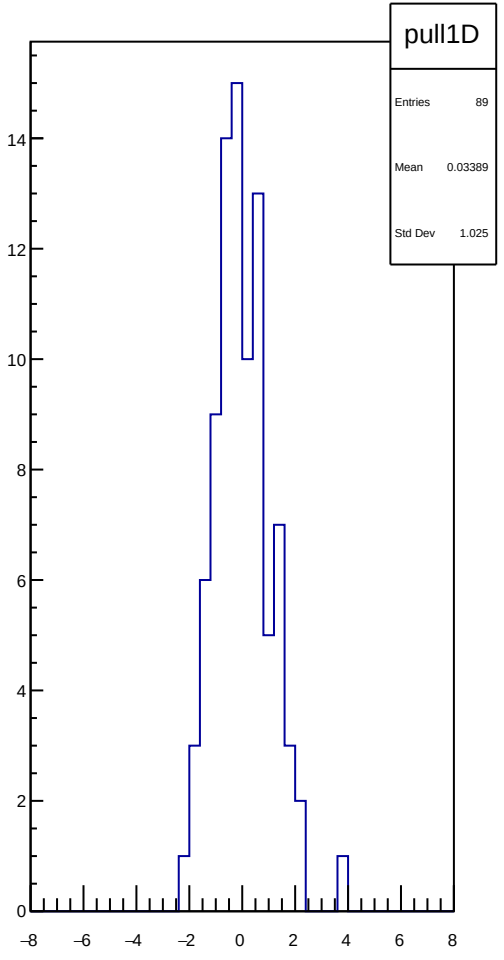

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 5.202e+05 / 88
p0 834.2 ± 0.753
3000
2500
2000
1500
1000
500

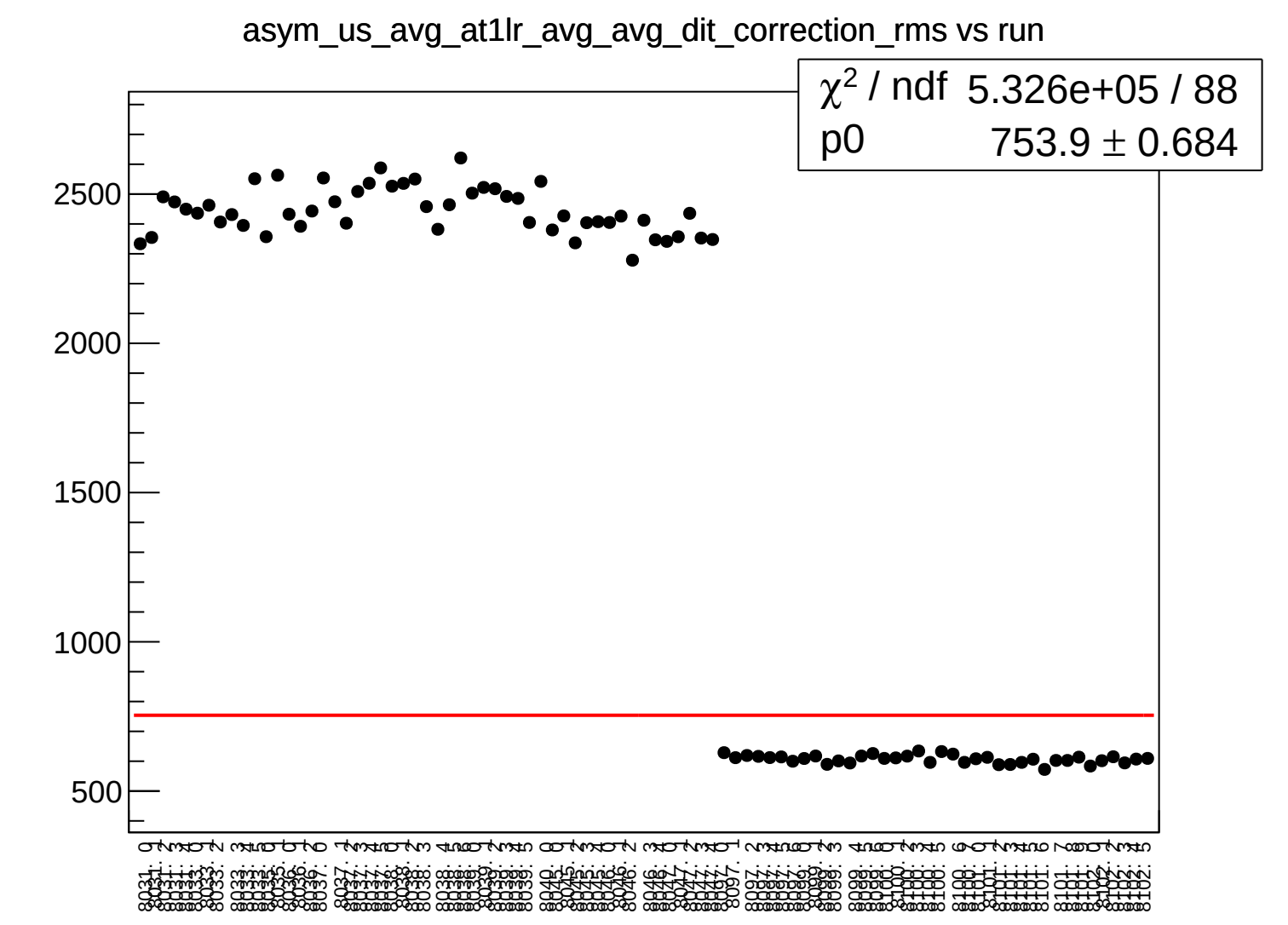

dit_asym_us_avg_at1lr_avg_avg_mean vs run
$\chi^2$ / ndf 86.2 / 88
p0 7714 ± 2358
×10^3
pull
Entries 89
Mean 174.1
Std Dev 0

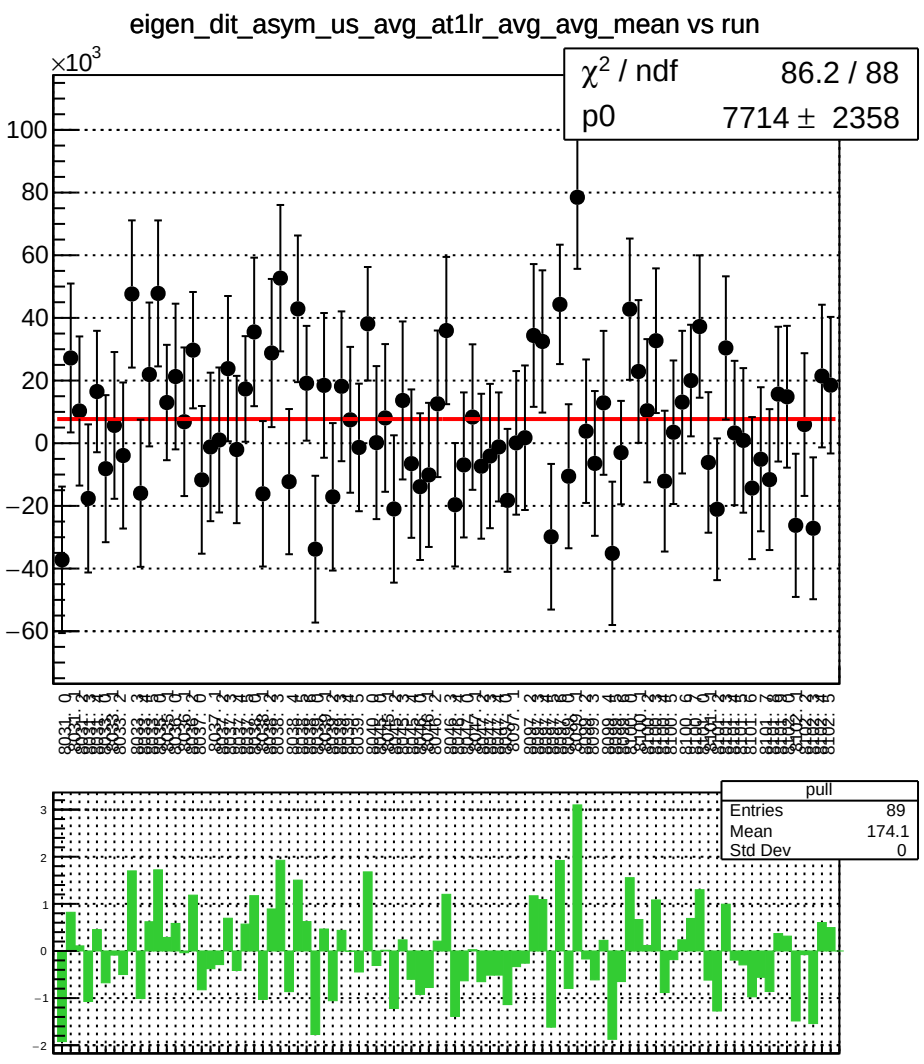

pull1D
Entries 89
Mean −0.01361
Std Dev 0.984

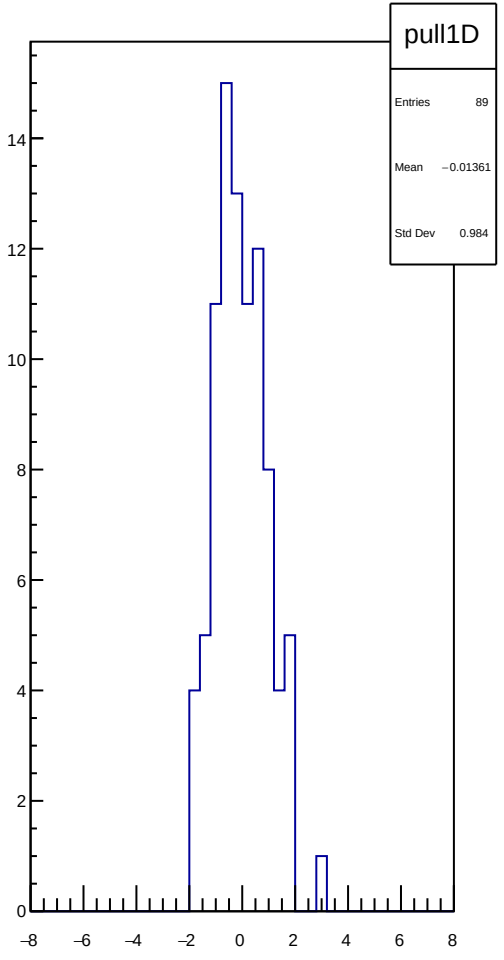

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 791.1 / 88
p0 2204 ± 1.667
2400
2350
2300
2250
2200
2150
2100

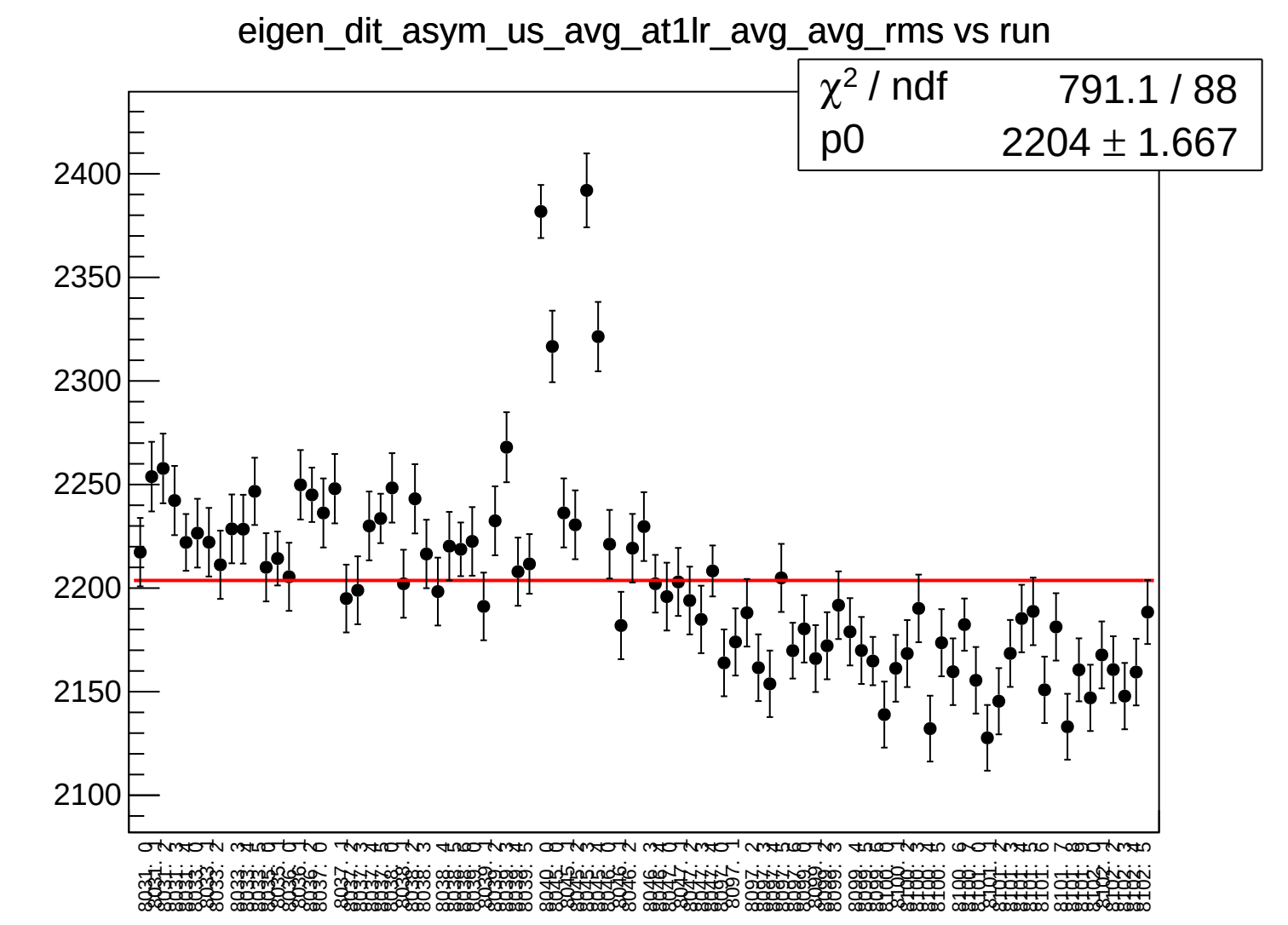

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 93.68 / 88
p0 −4.892 ± 967.4
100
50
0
−50
−100
pull
Entries 89
Mean −8.306
Std Dev 0
3
2
1
0
−1
−2

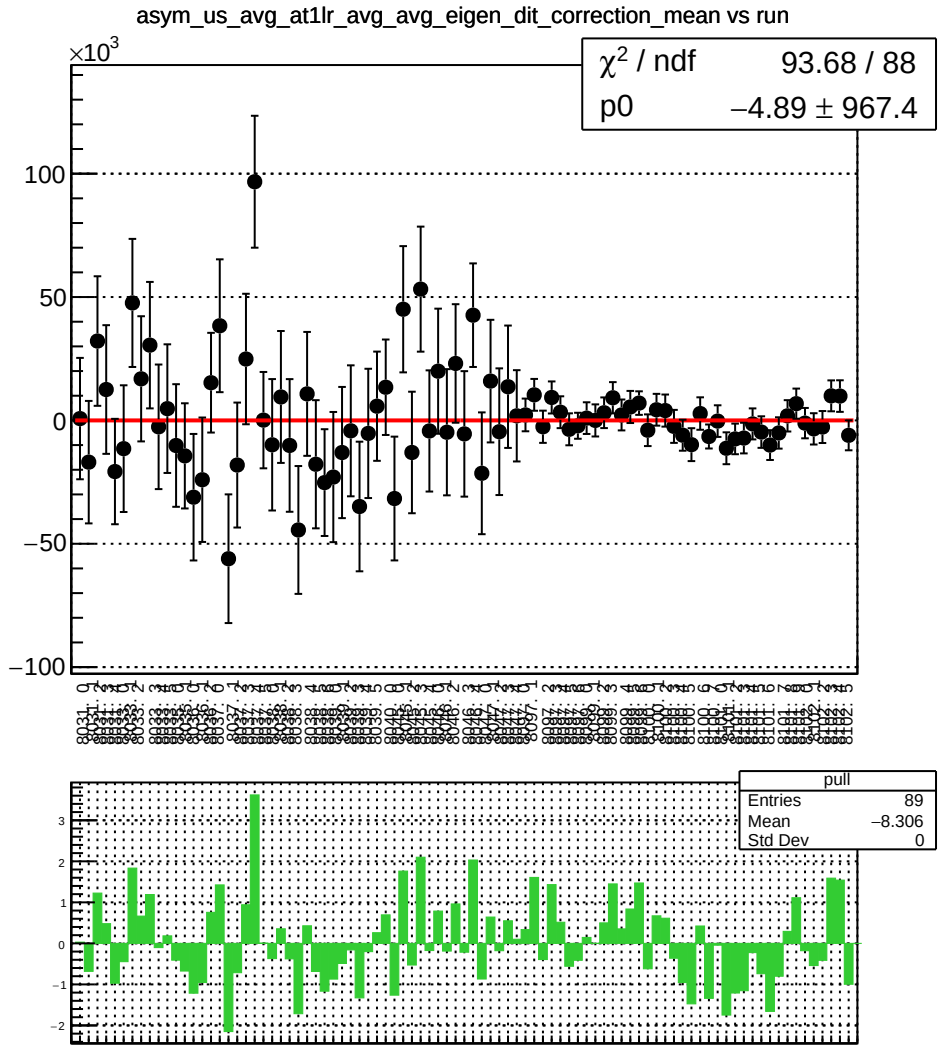

pull1D
Entries 89
Mean 0.03389
Std Dev 1.025
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

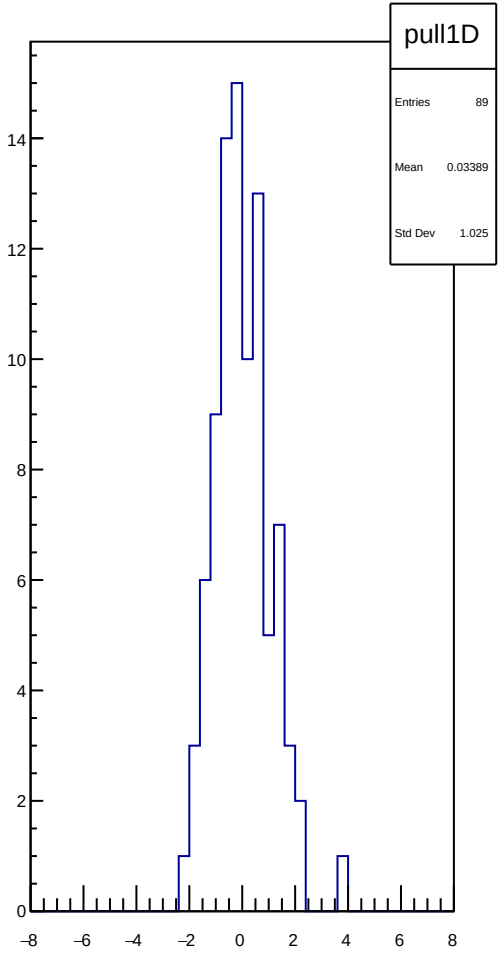

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 5.326e+05 / 88
p0 753.9 ± 0.684
2500
2000
1500
1000
500

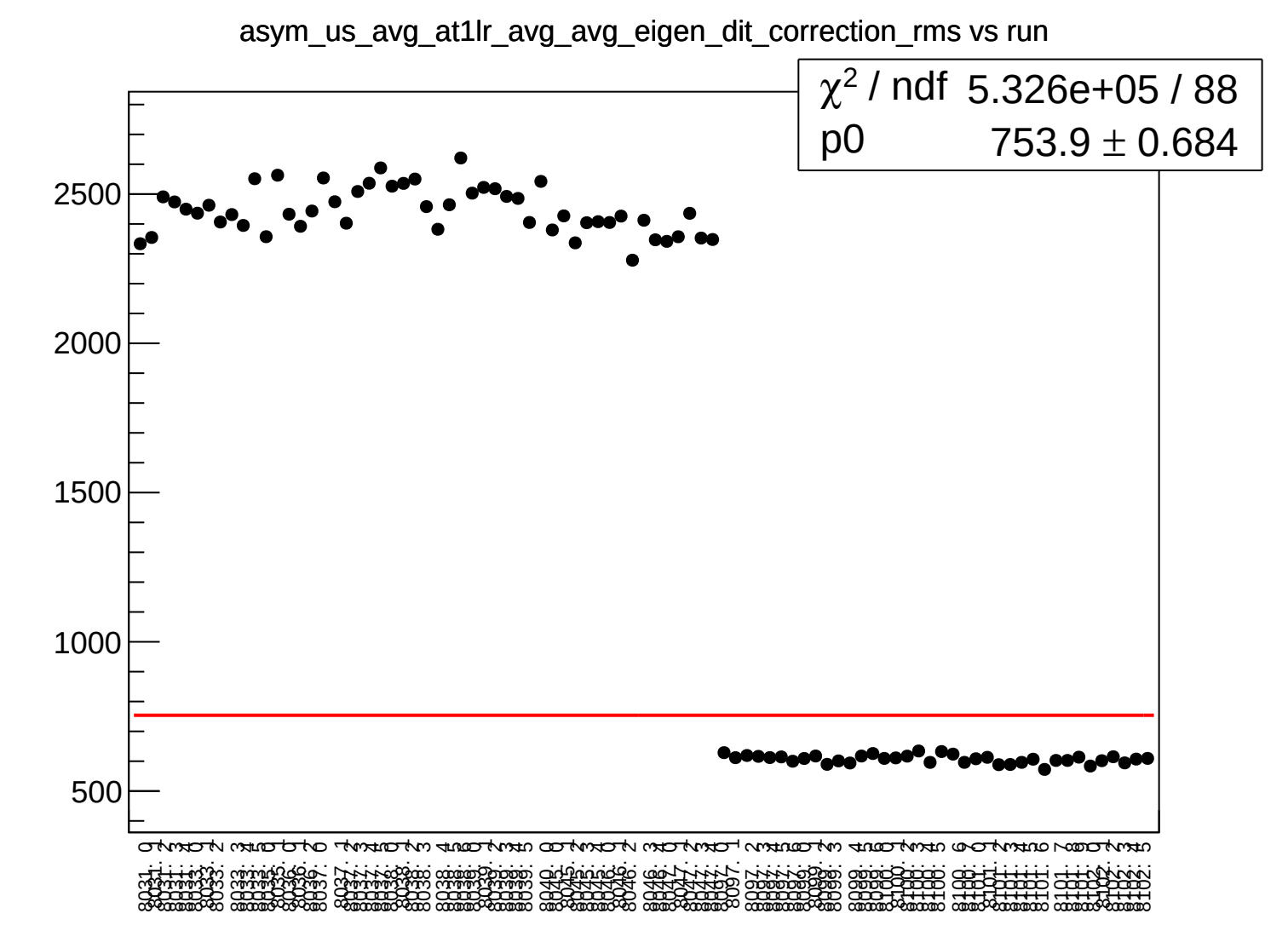

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 86.2 / 88
p0 7714 ± 2358
pull
Entries 89
Mean 174.1
Std Dev 0

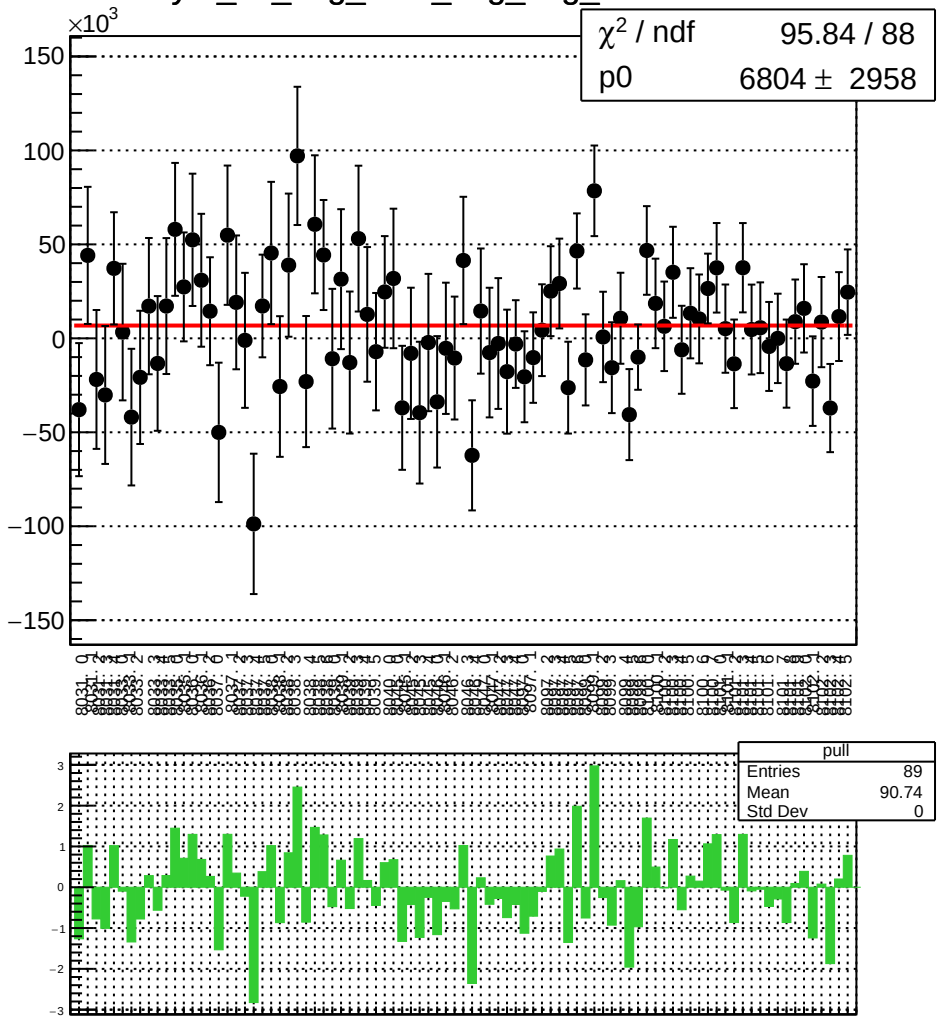

pull1D
Entries 89
Mean −0.01361
Std Dev 0.984

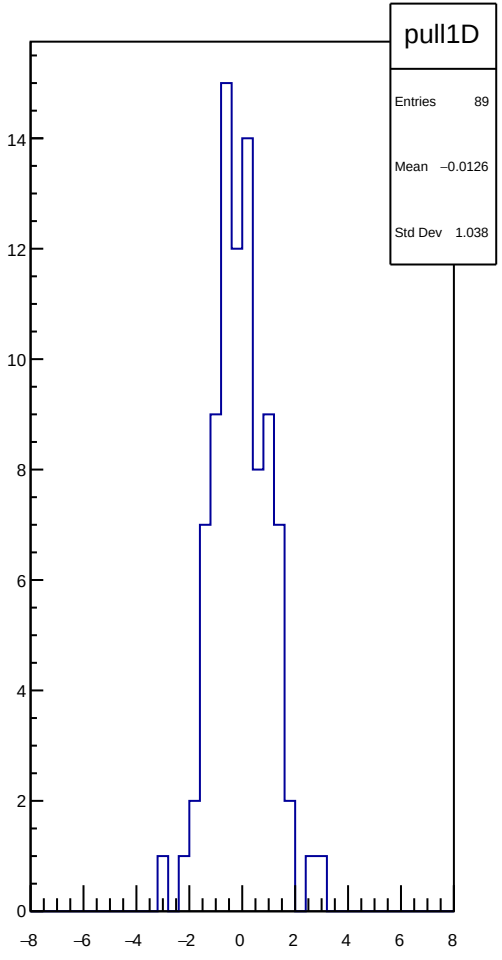

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 791.1 / 88
p0 2204 ± 1.667
2400
2350
2300
2250
2200
2150
2100

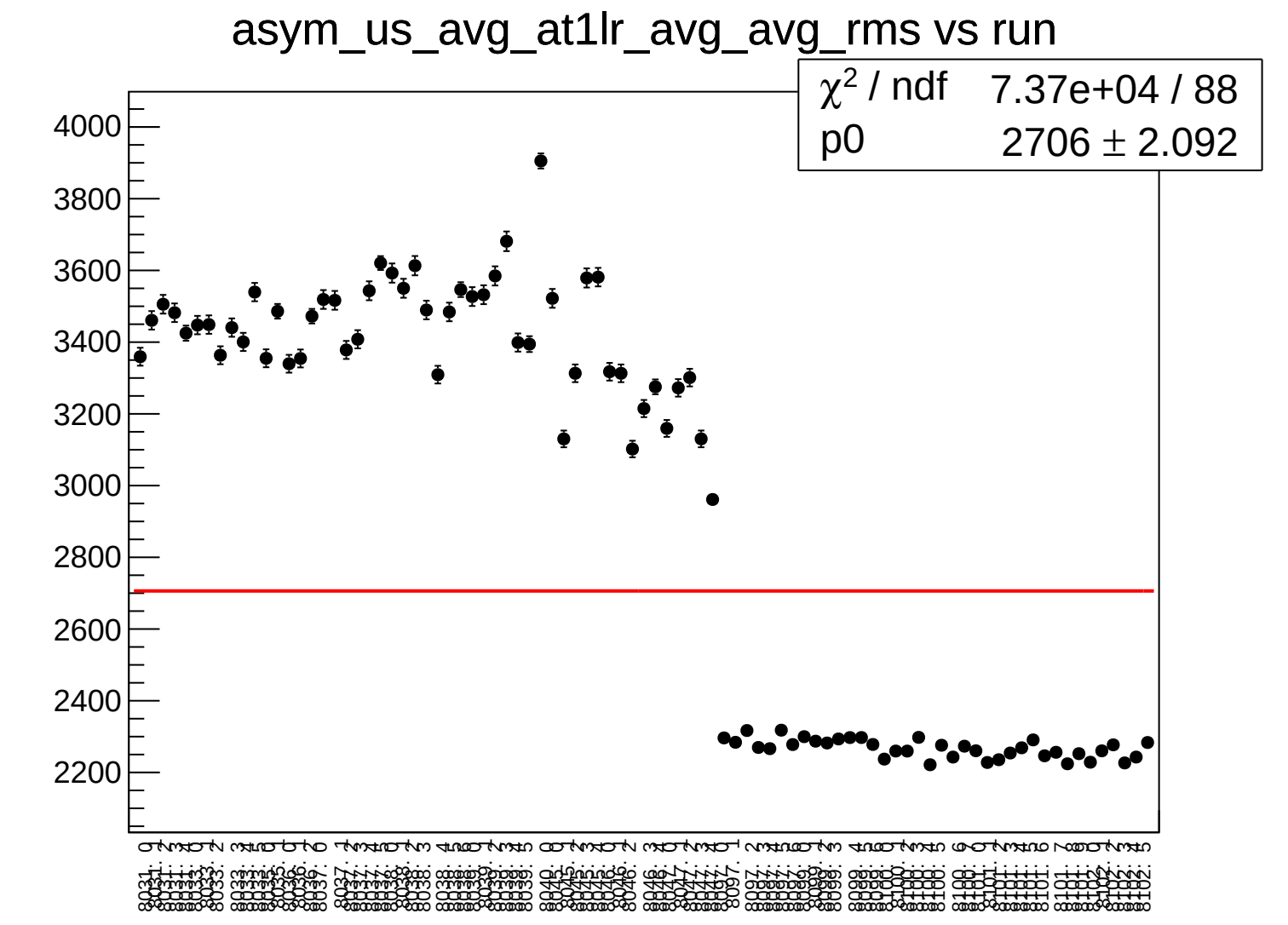

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 93.68 / 88
p0 −4.89 ± 967.4
100
50
0
−50
−100
pull
Entries 89
Mean −8.306
Std Dev 0
3
2
1
0
−1
−2

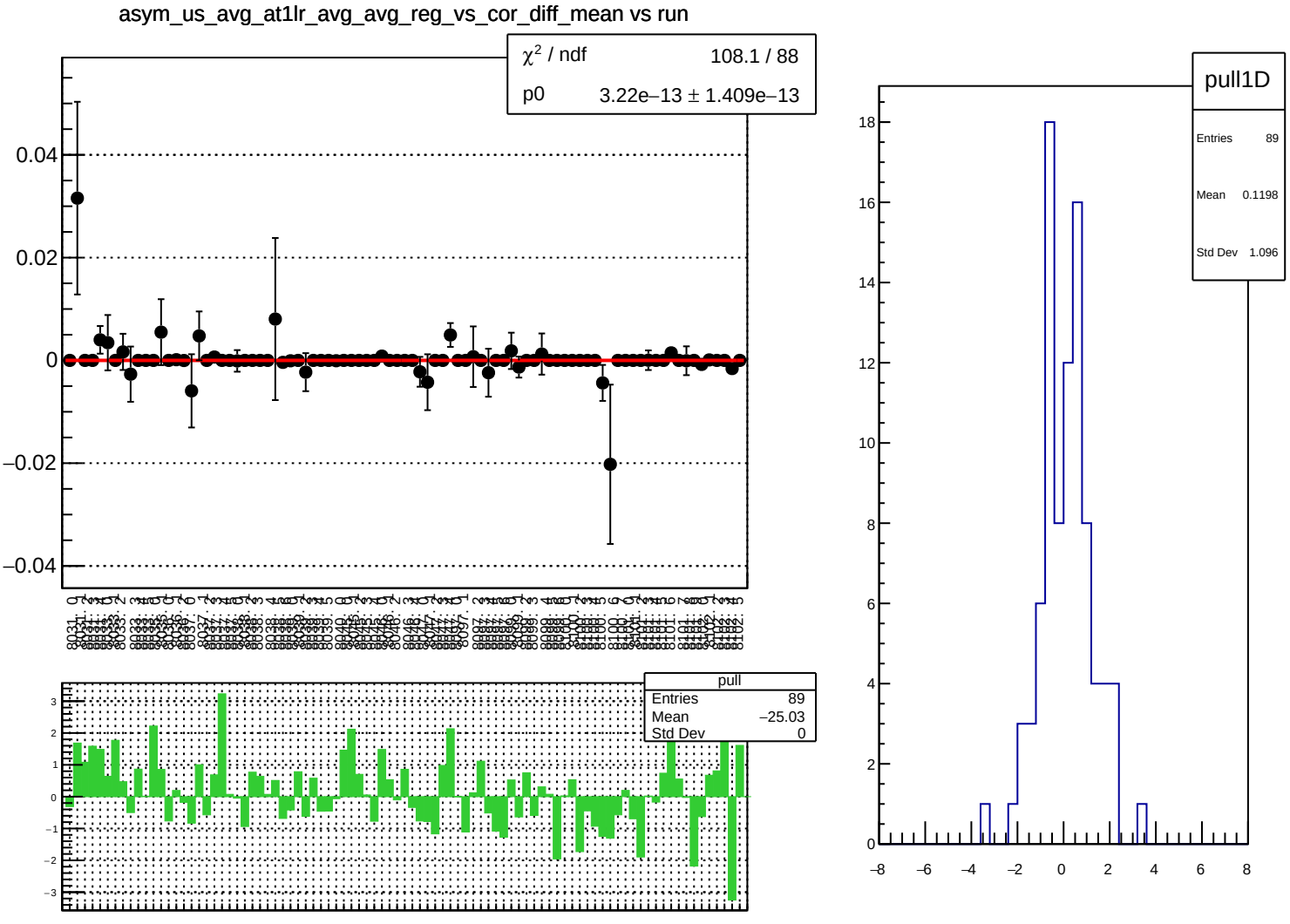

pull1D
Entries 89
Mean 0.03389
Std Dev 1.025
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

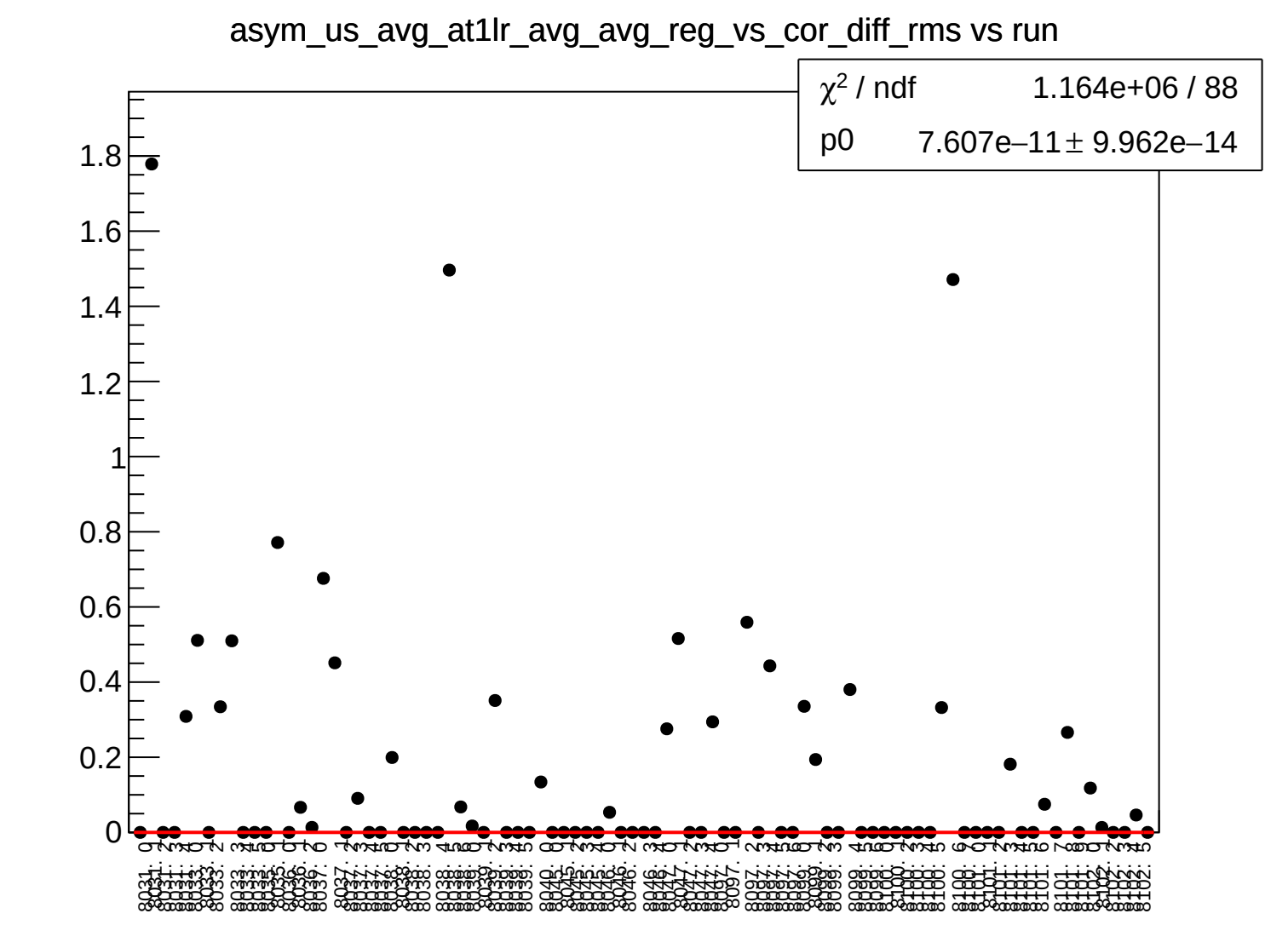

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 5.326e+05 / 88
p0 753.9 ± 0.684
2500
2000
1500
1000
500

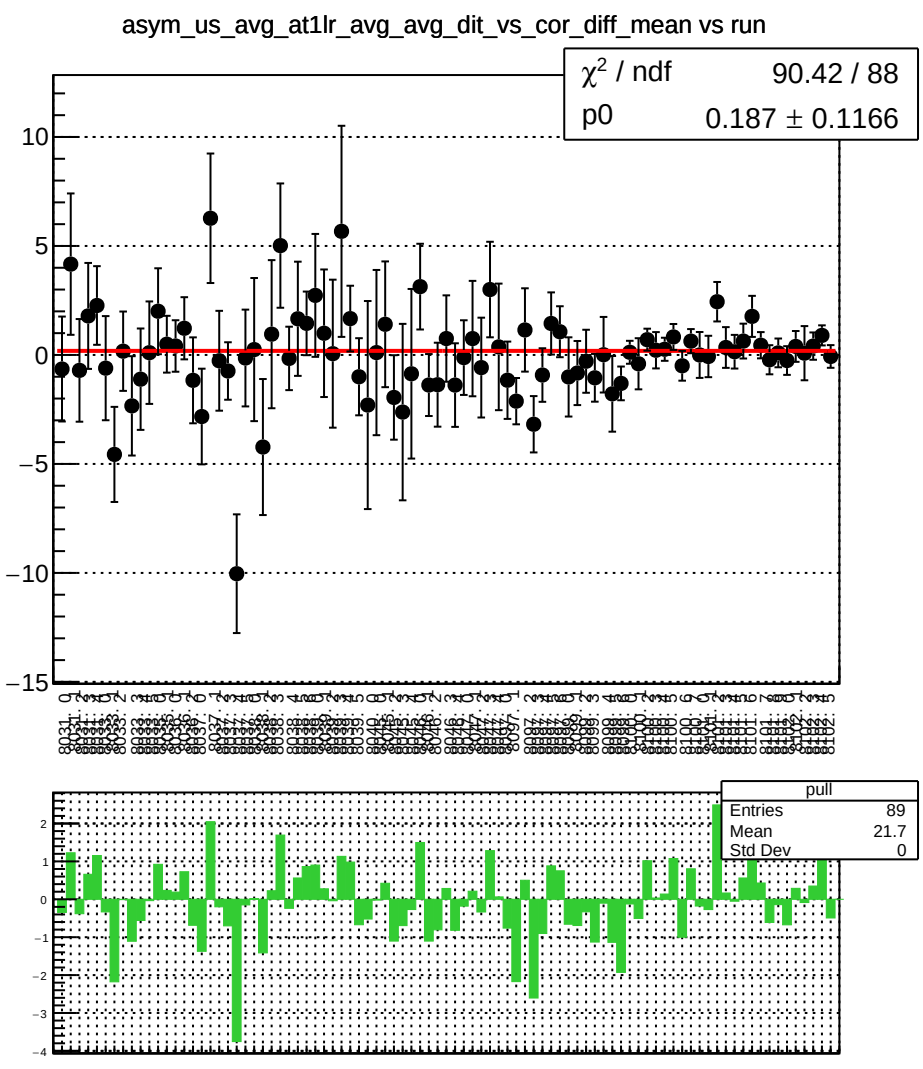

asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 95.84 / 88
p0 6804 ± 2958
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean 90.74
Std Dev 0
3
2
1
0
−1
−2
−3

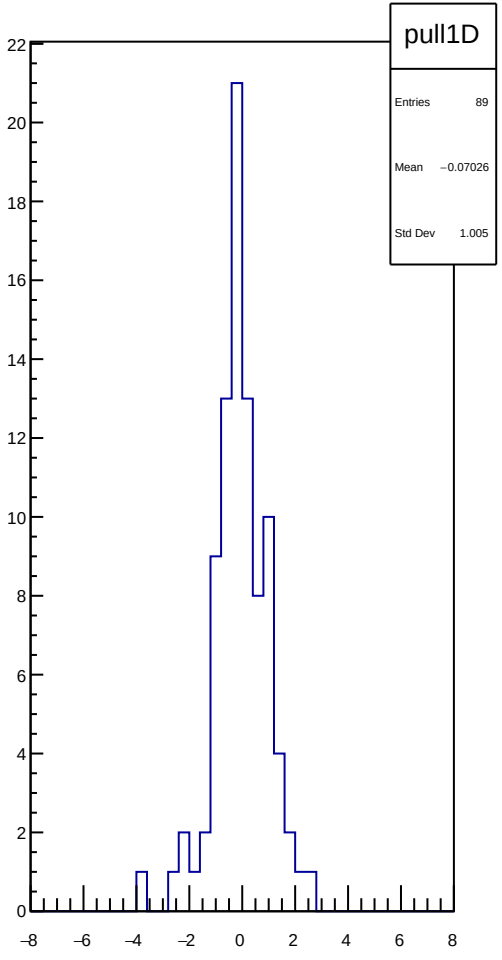

pull1D
Entries 89
Mean −0.0126
Std Dev 1.038
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

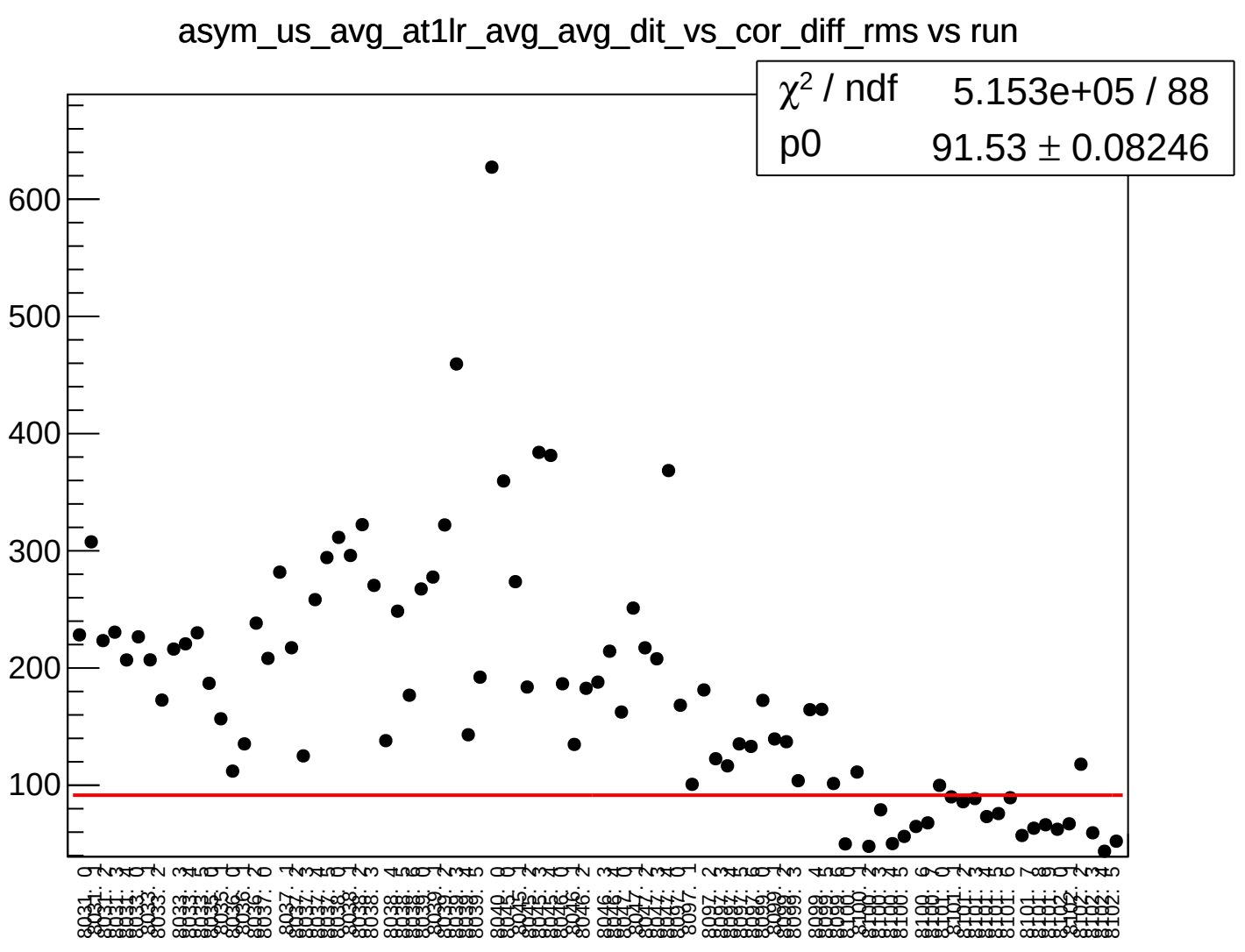

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 7.37e+04 / 88
p0 2706 ± 2.092
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200

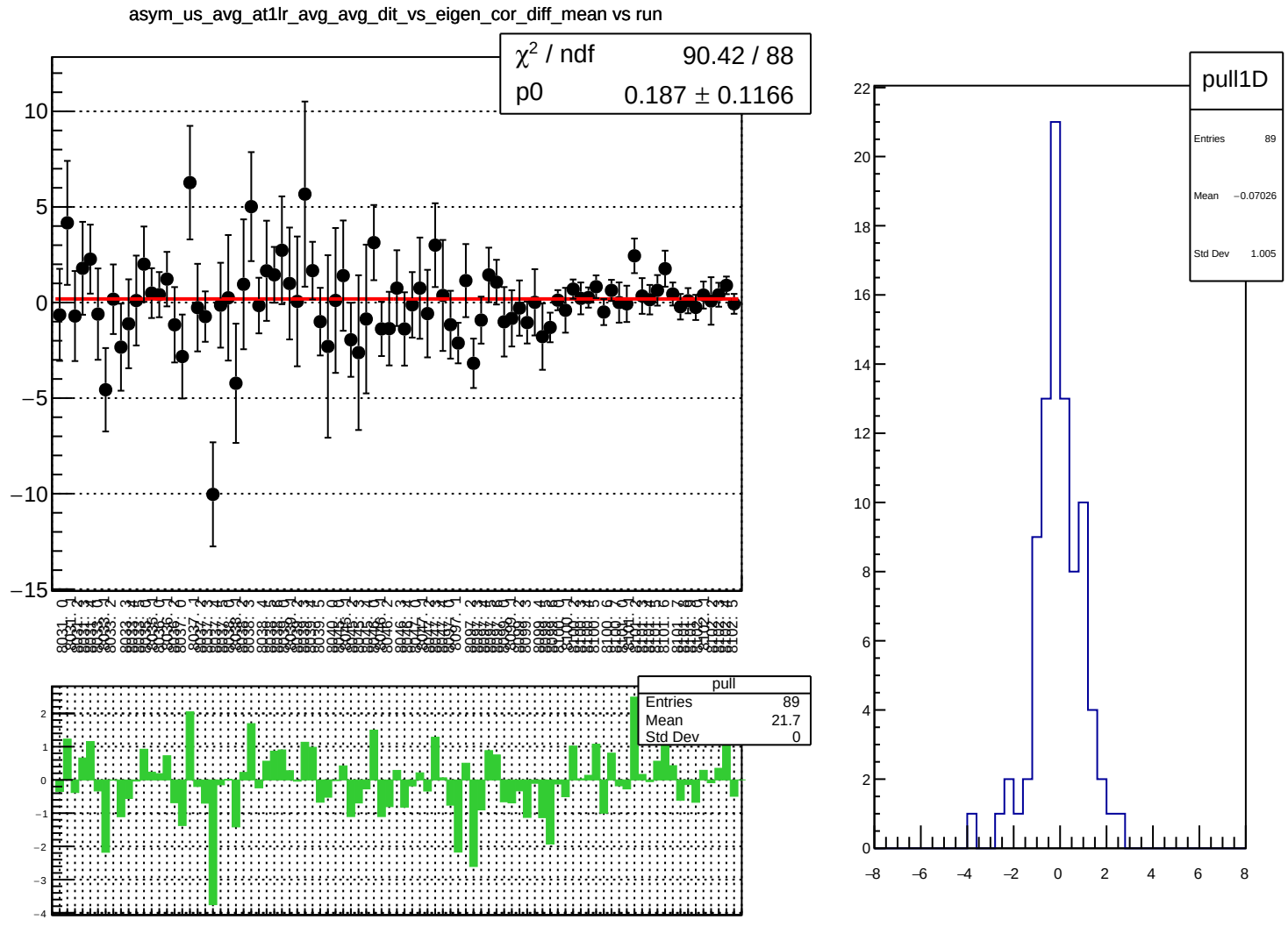

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 108.1 / 88
p0 3.22e−13 ± 1.409e−13
0.04
0.02
0
−0.02
−0.04
pull
Entries 89
Mean −25.03
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.1198
Std Dev 1.096
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

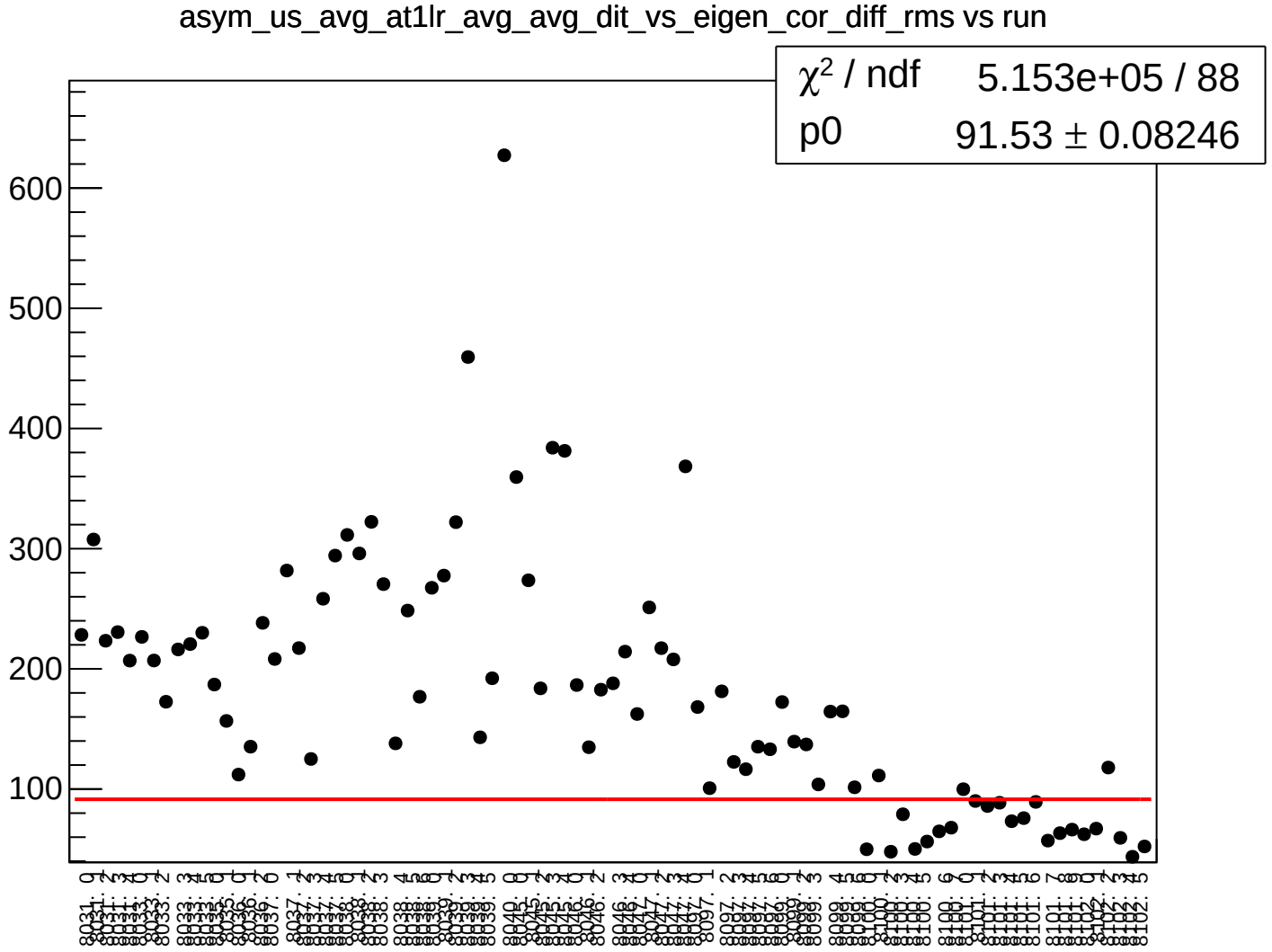

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.164e+06 / 88
p0 7.607e−11 ± 9.962e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

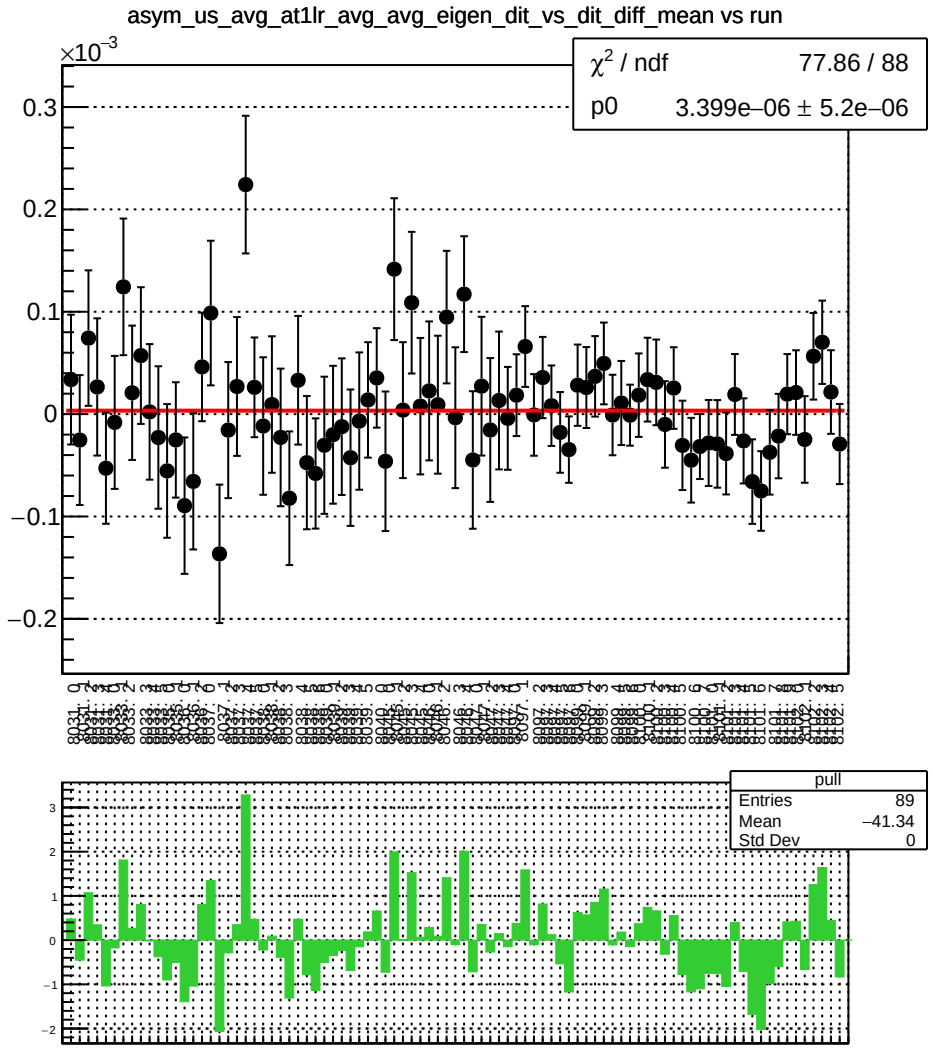

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 90.42 / 88
p0 0.187 ± 0.1166
pull
Entries 89
Mean 21.7
Std Dev 0

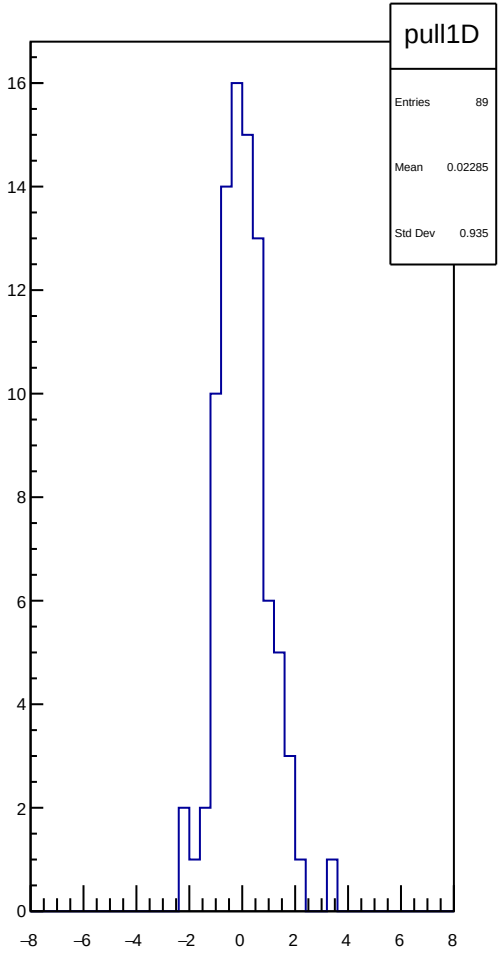

pull1D
Entries 89
Mean −0.07026
Std Dev 1.005

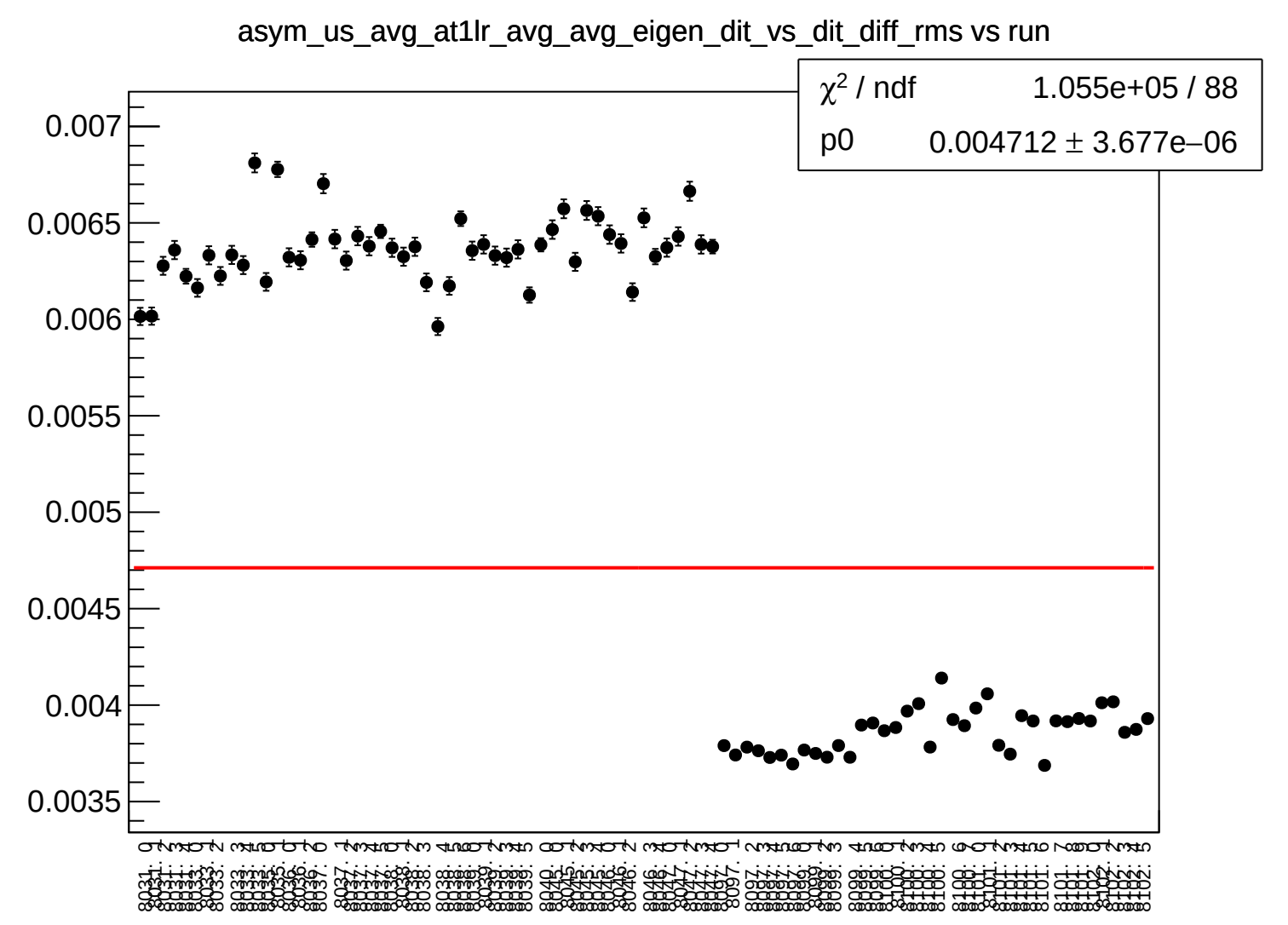

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.153e+05 / 88
p0 91.53 ± 0.08246
600
500
400
300
200
100

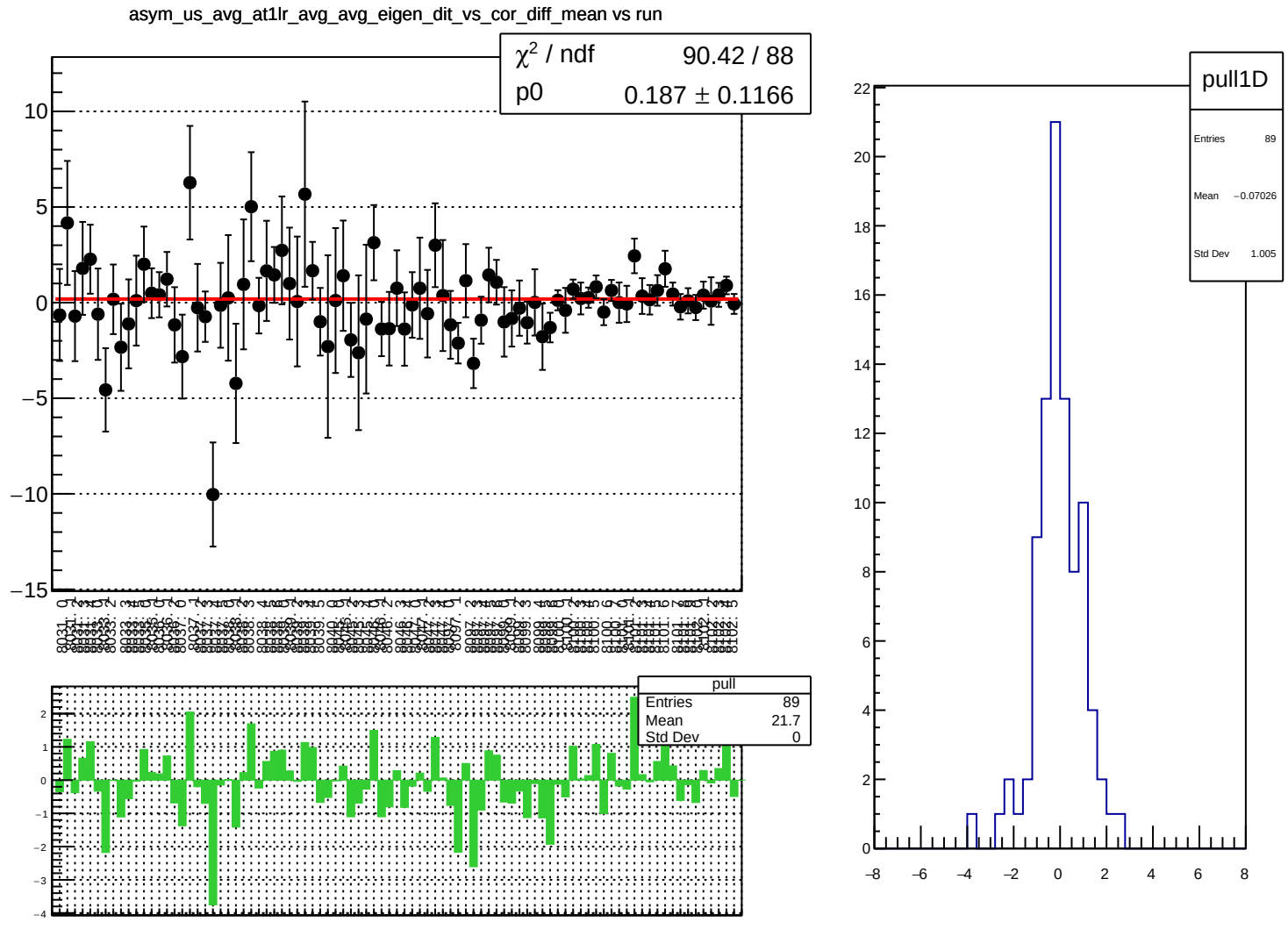

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.42 / 88
p0 0.187 ± 0.1166
pull
Entries 89
Mean 21.7
Std Dev 0
pull1D
Entries 89
Mean −0.07026
Std Dev 1.005

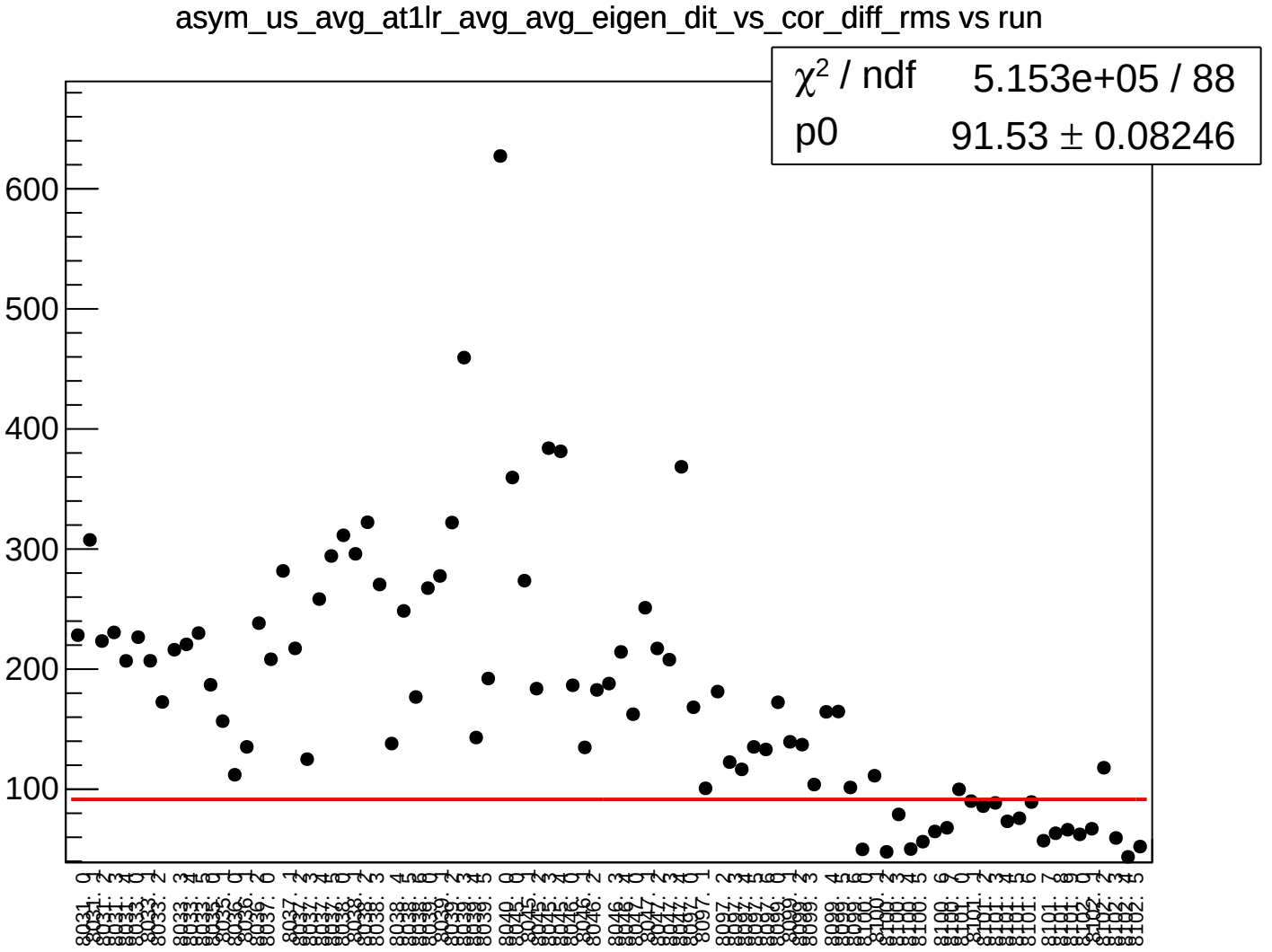

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.153e+05 / 88
p0 91.53 ± 0.08246
600
500
400
300
200
100

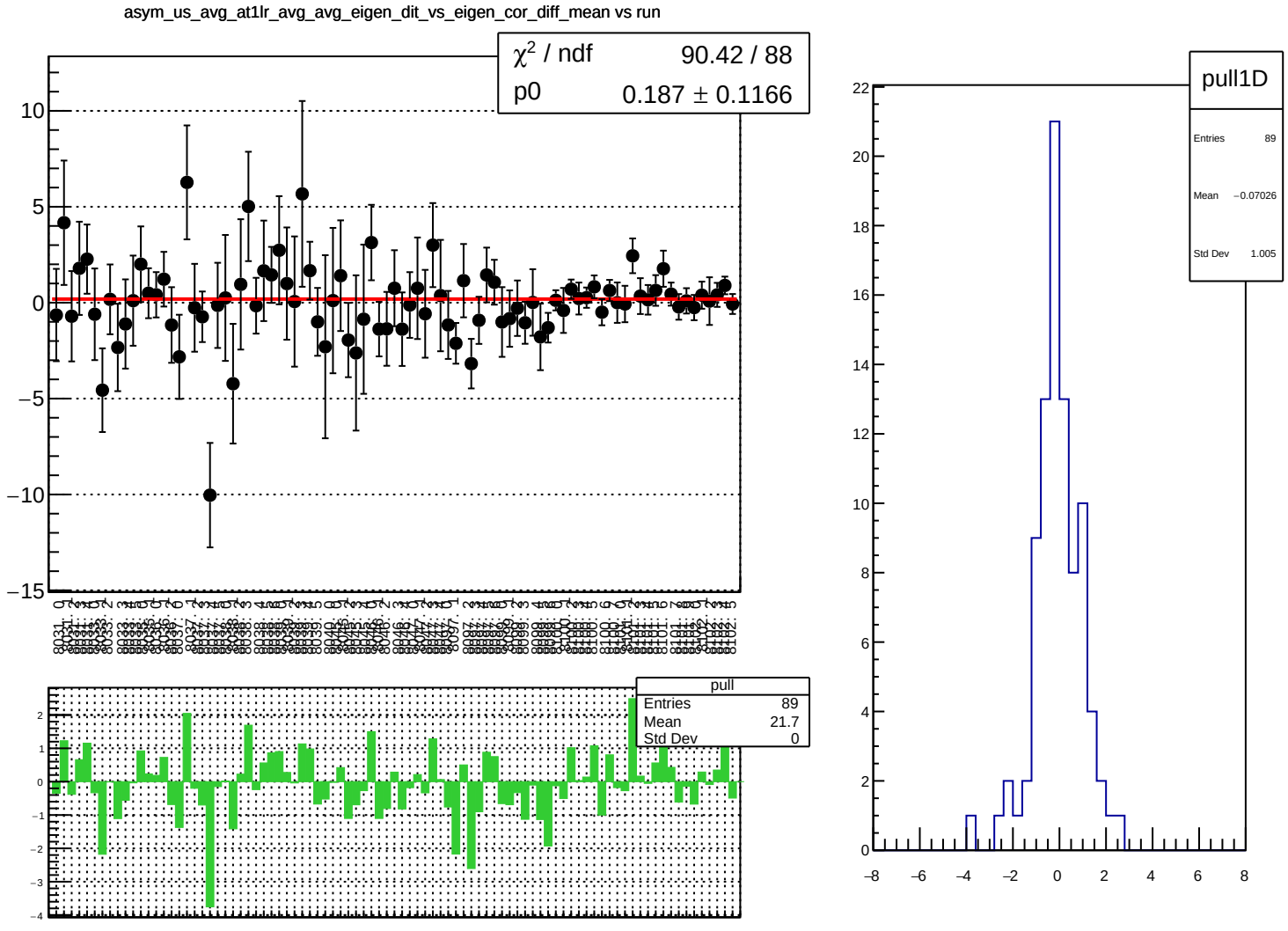

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.86 / 88
p0 3.399e−06 ± 5.2e−06
0.3
0.2
0.1
0
−0.1
−0.2
pull
Entries 89
Mean −41.34
Std Dev 0
3
2
1
0
−1
−2

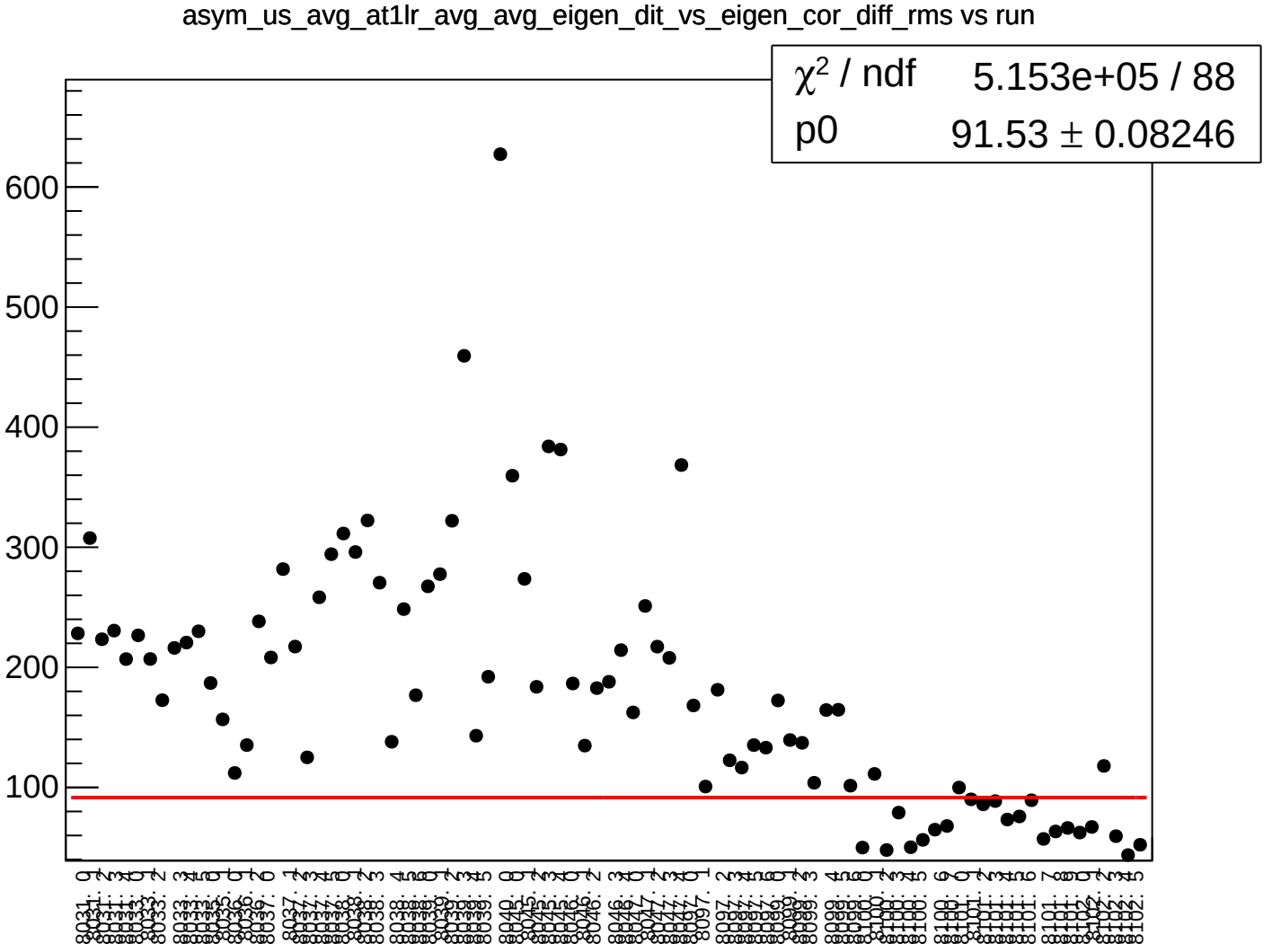

pull1D
Entries 89
Mean 0.02285
Std Dev 0.935
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

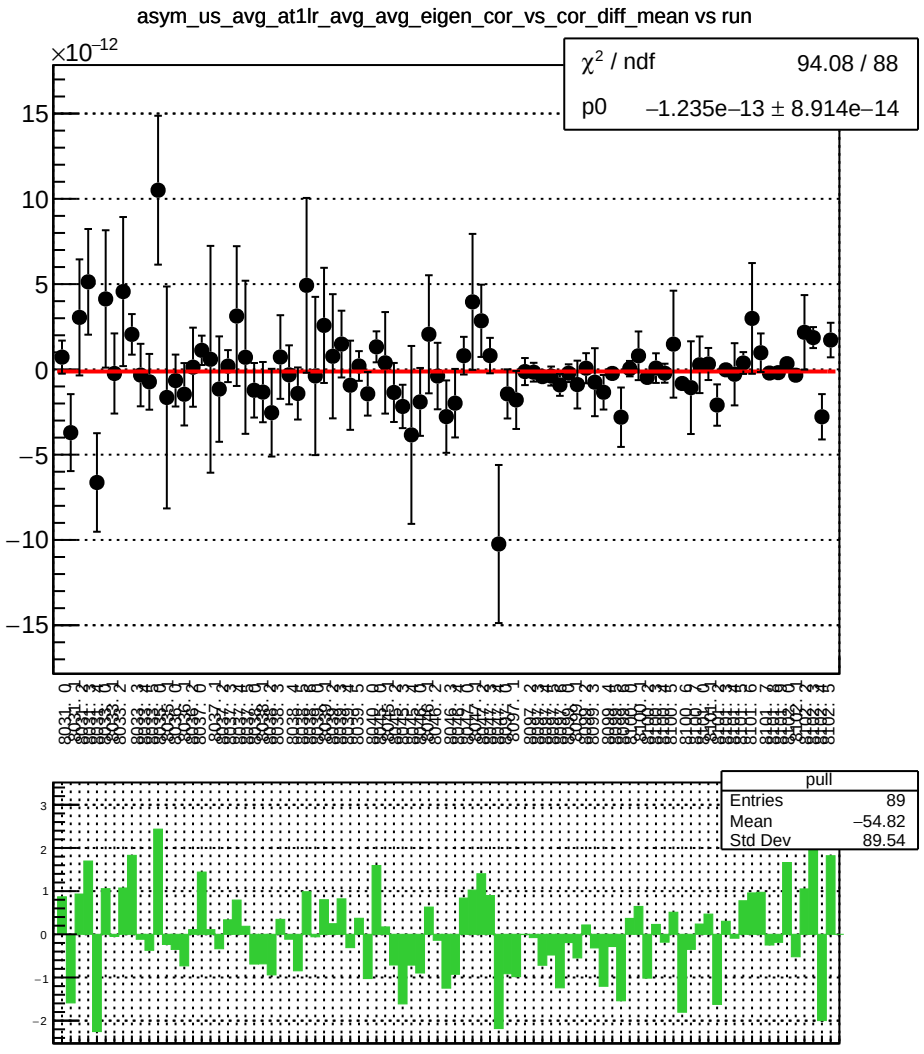

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.055e+05 / 88
p0 0.004712 ± 3.677e−06
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035

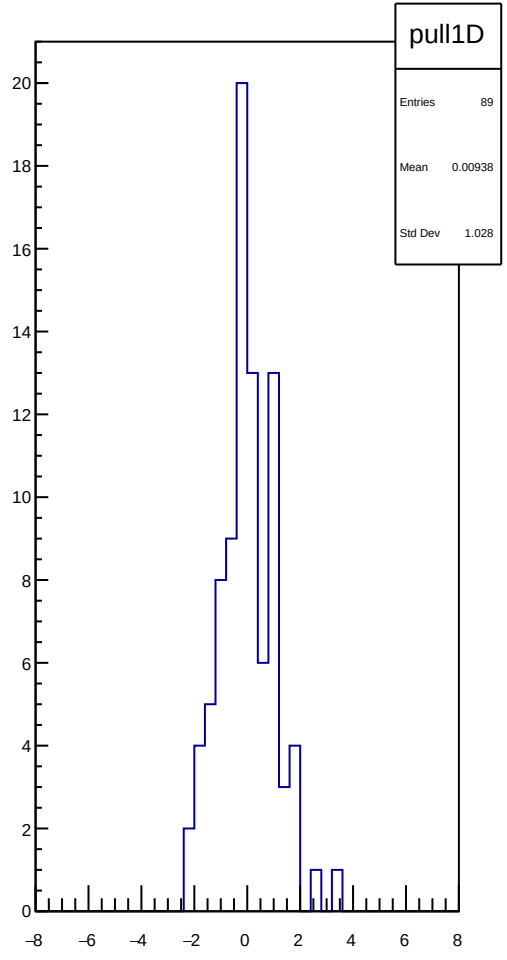

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.42 / 88
p0 0.187 ± 0.1166
pull
Entries 89
Mean 21.7
Std Dev 0
pull1D
Entries 89
Mean −0.07026
Std Dev 1.005

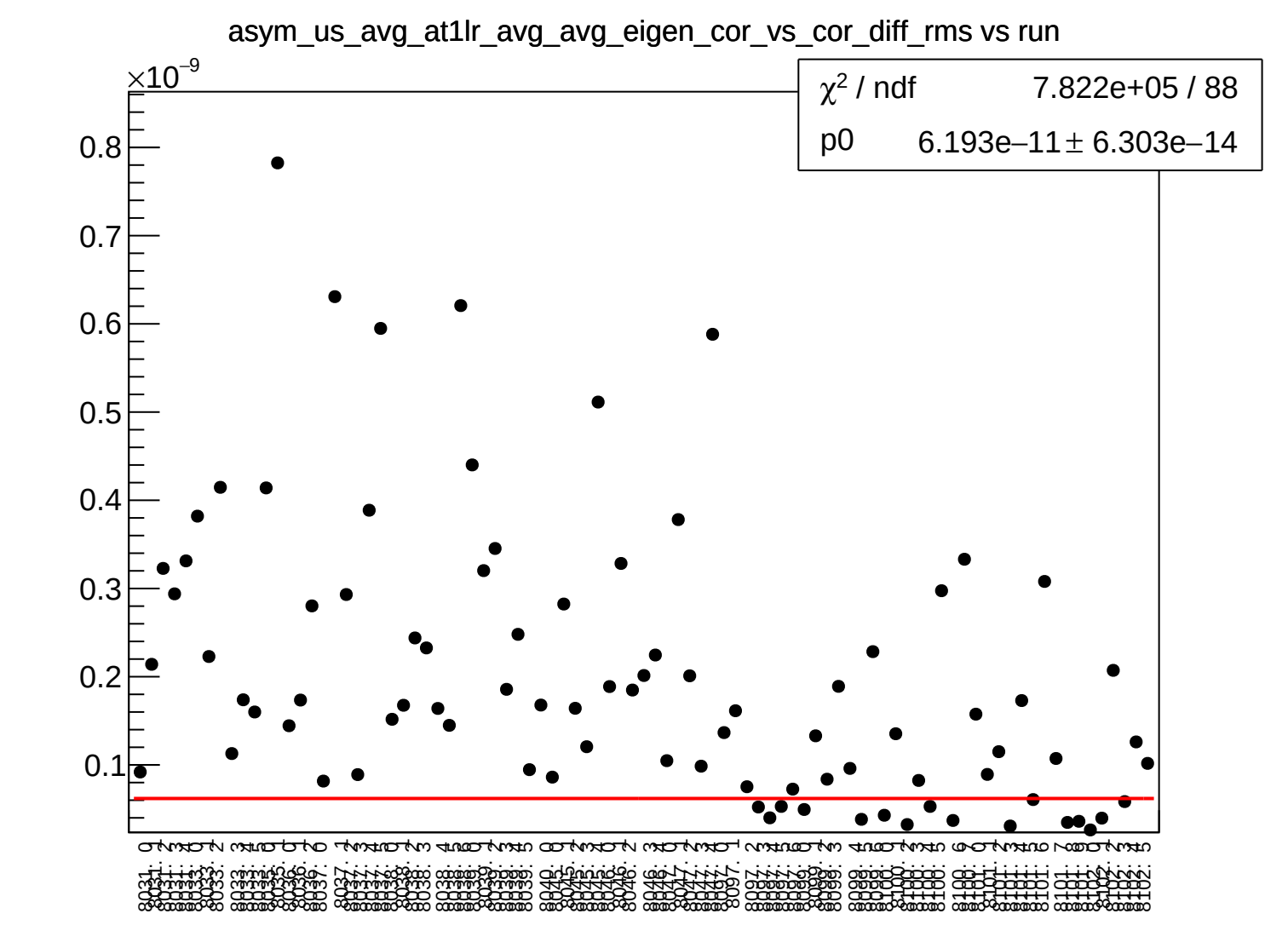

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.153e+05 / 88
p0 91.53 ± 0.08246
600
500
400
300
200
100

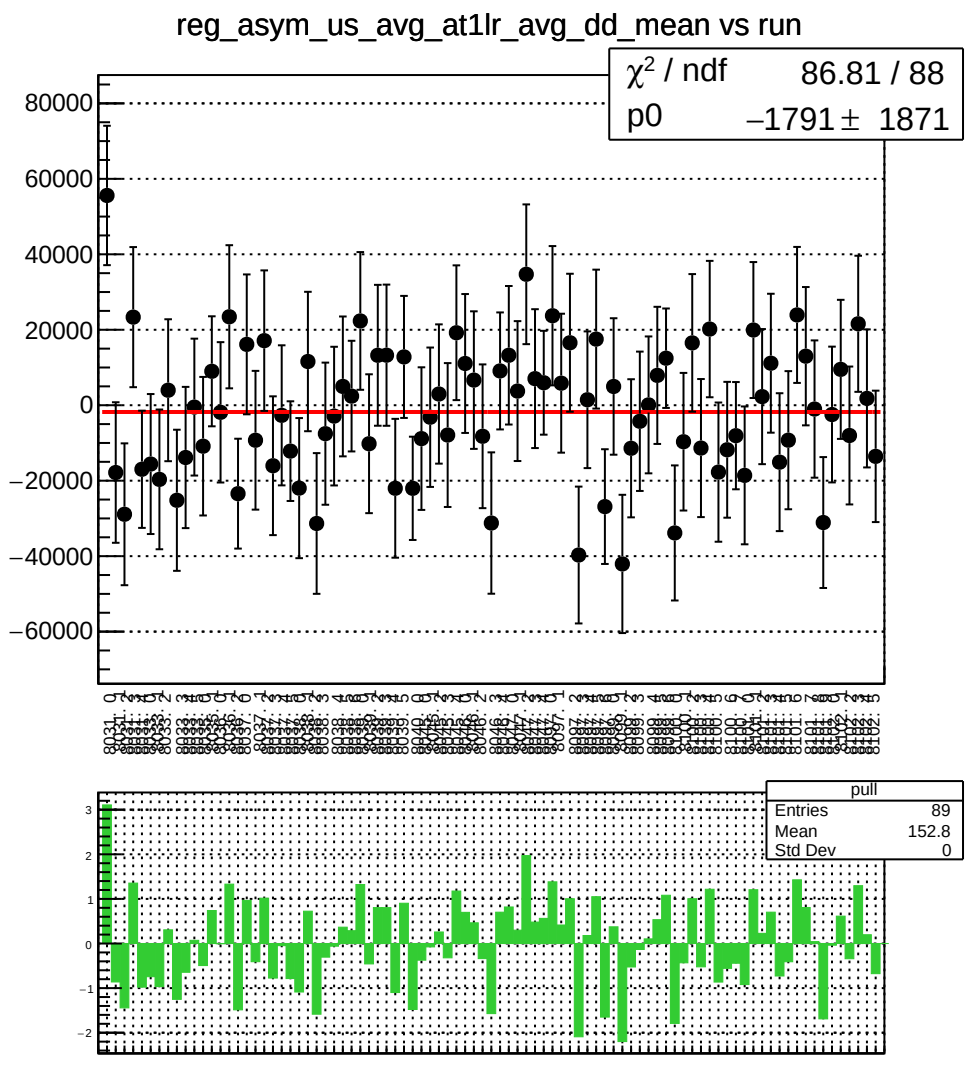

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.42 / 88
p0 0.187 ± 0.1166
pull
Entries 89
Mean 21.7
Std Dev 0
pull1D
Entries 89
Mean −0.07026
Std Dev 1.005

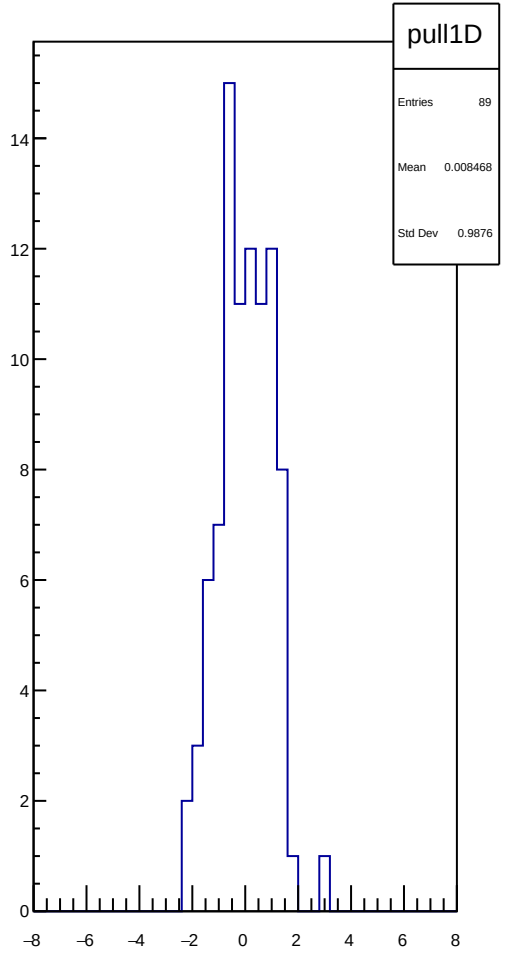

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.153e+05 / 88
p0 91.53 ± 0.08246
600
500
400
300
200
100

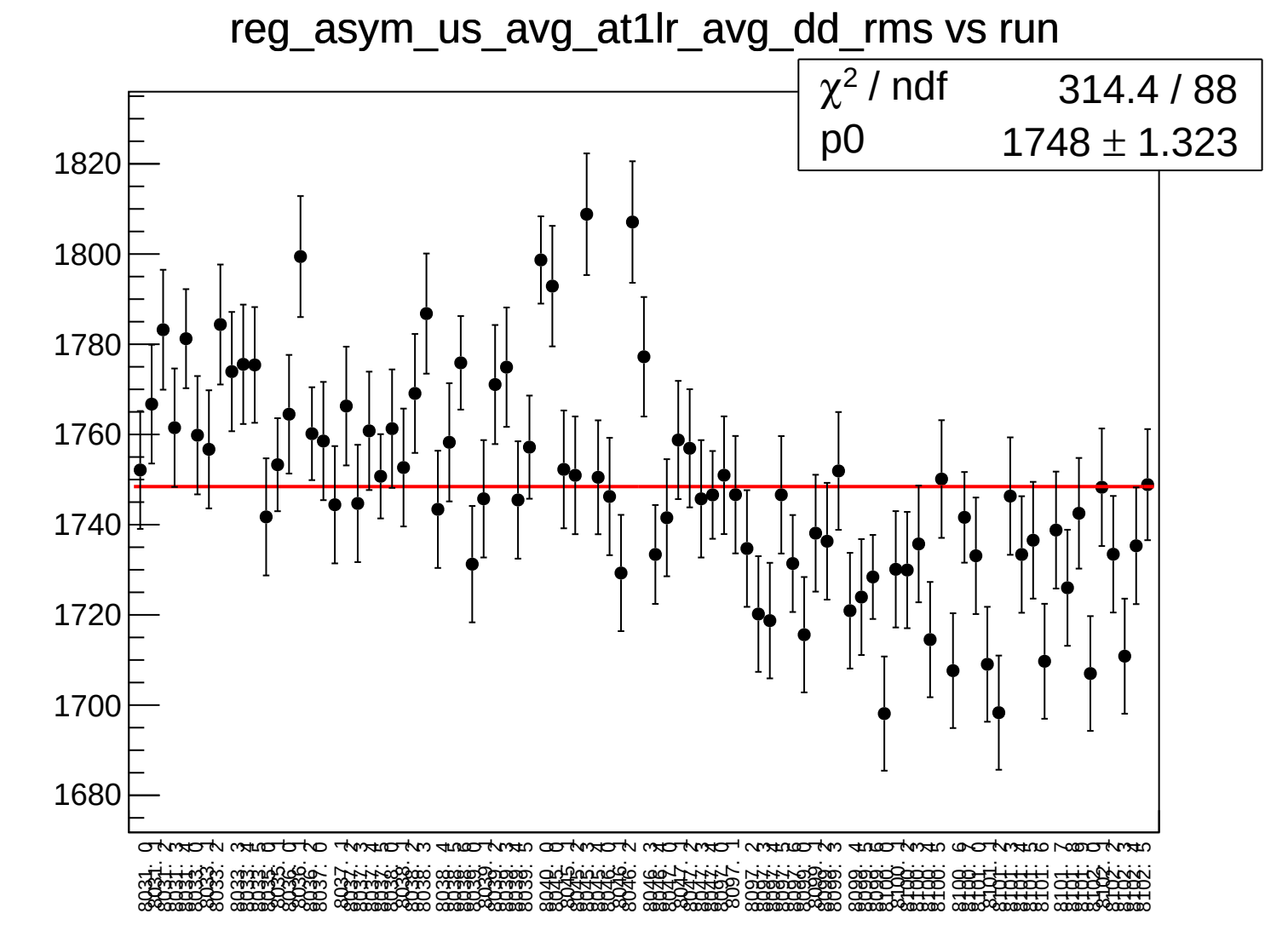

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.08 / 88
p0 −1.235e−13 ± 8.914e−14
pull
Entries 89
Mean −54.82
Std Dev 89.54

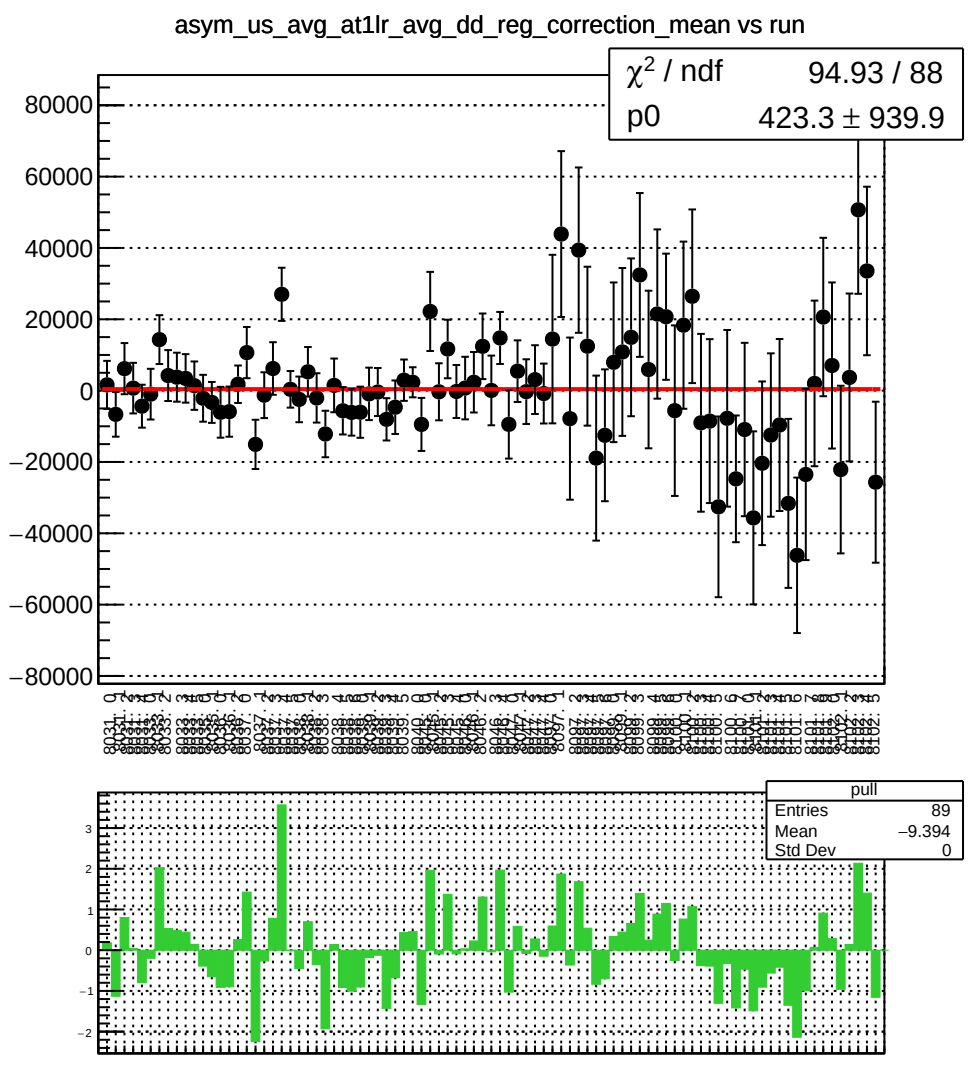

pull1D
Entries 89
Mean 0.00938
Std Dev 1.028

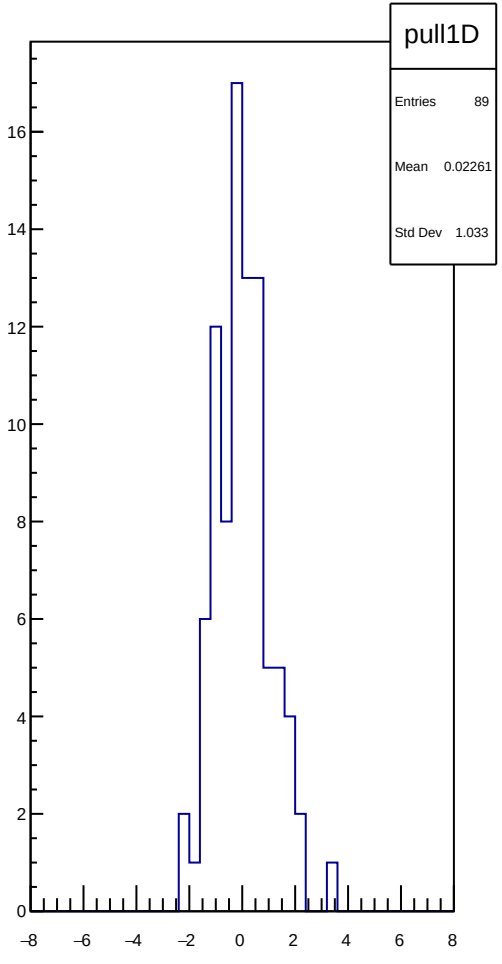

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.822e+05 / 88
p0 6.193e−11 ± 6.303e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

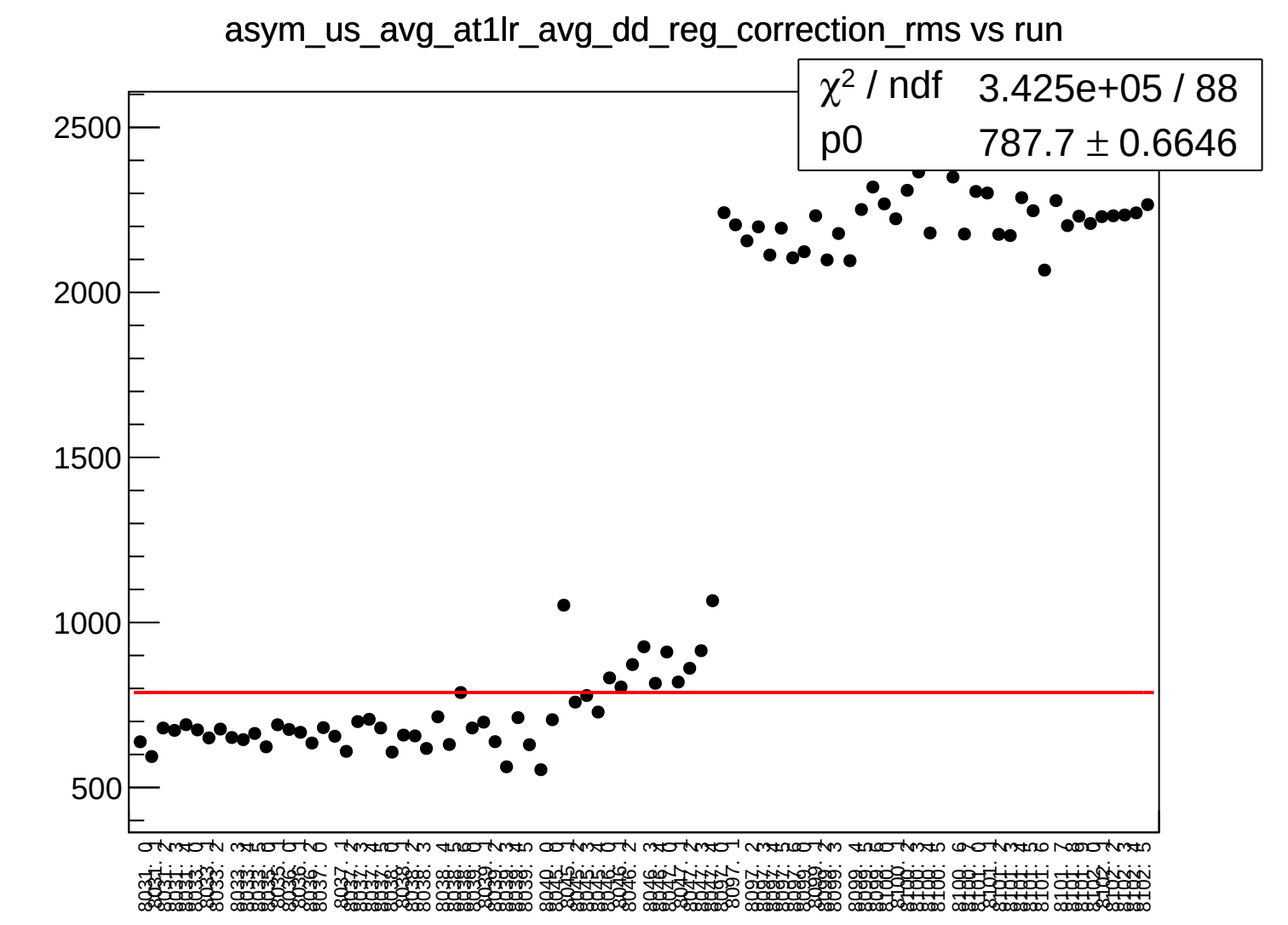

reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 86.81 / 88
p0 −1791 ± 1871
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 152.8
Std Dev 0
3
2
1
0
−1
−2

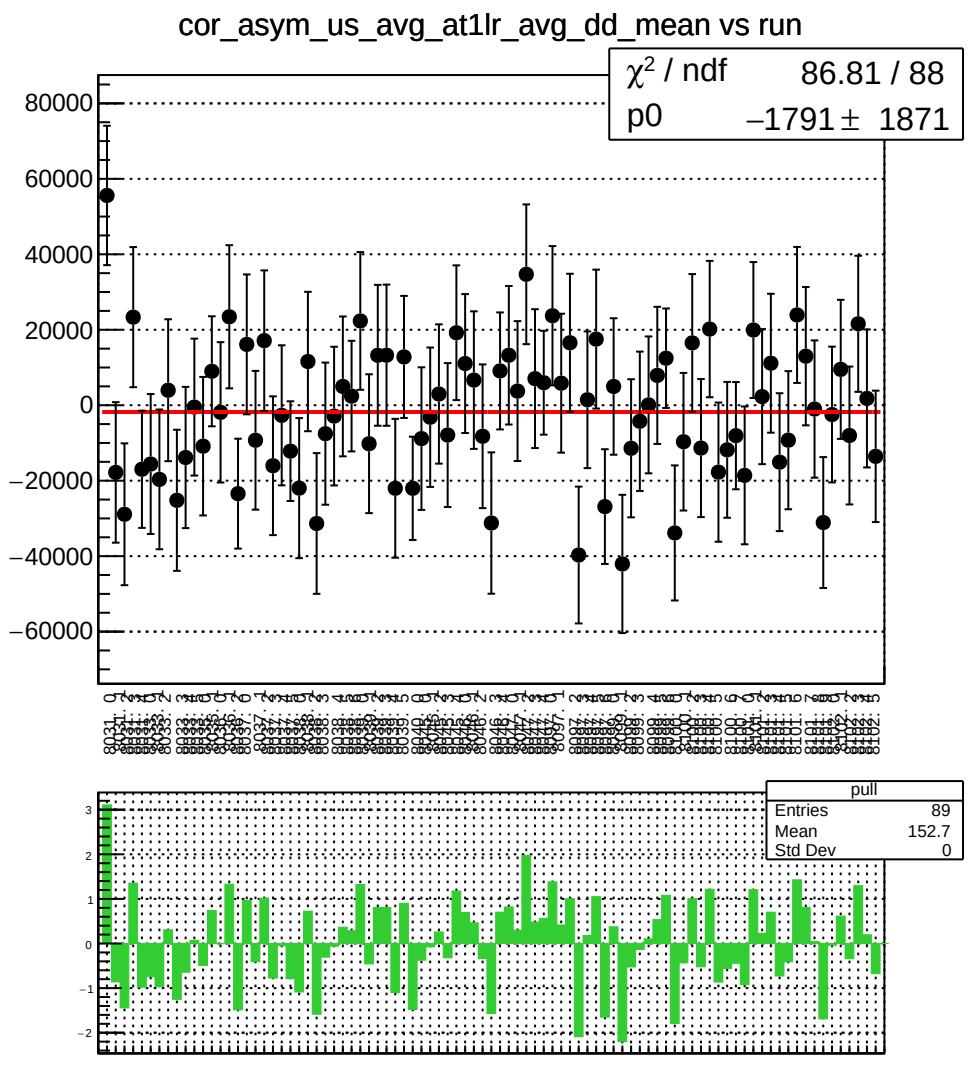

pull1D
Entries 89
Mean 0.008468
Std Dev 0.9876
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

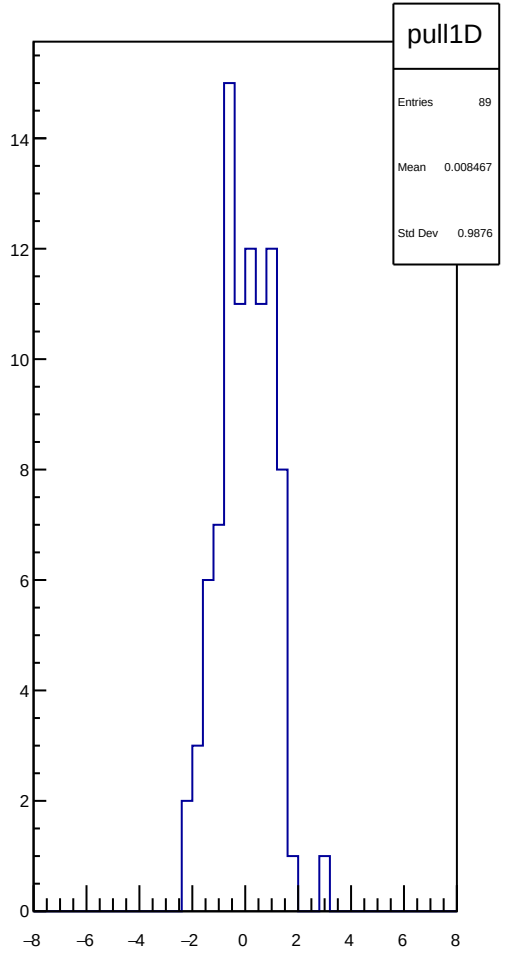

reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 314.4 / 88
p0 1748 ± 1.323
1820
1800
1780
1760
1740
1720
1700
1680

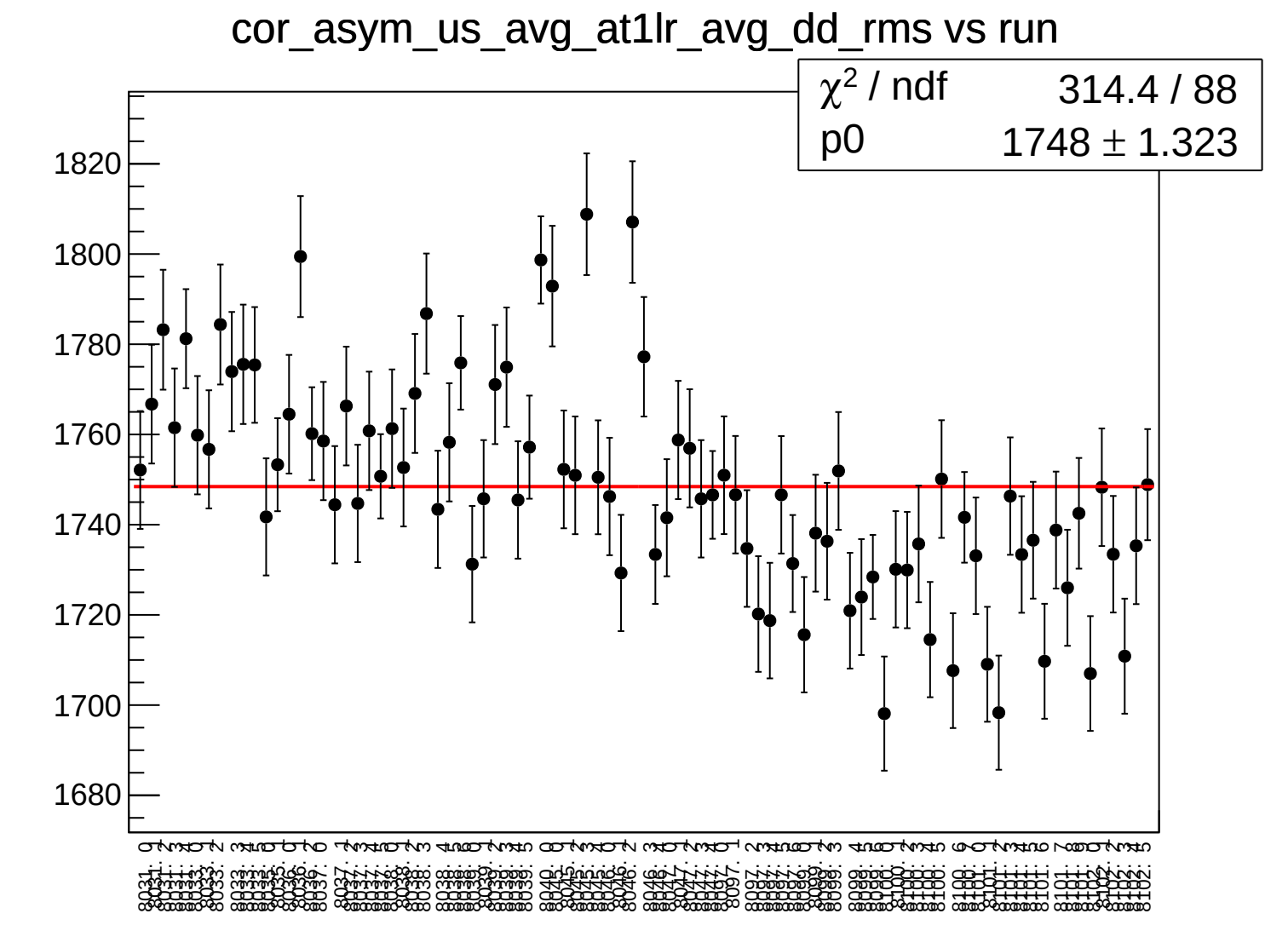

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 94.93 / 88
p0 423.3 ± 939.9
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −9.394
Std Dev 0
3
2
1
0
−1
−2

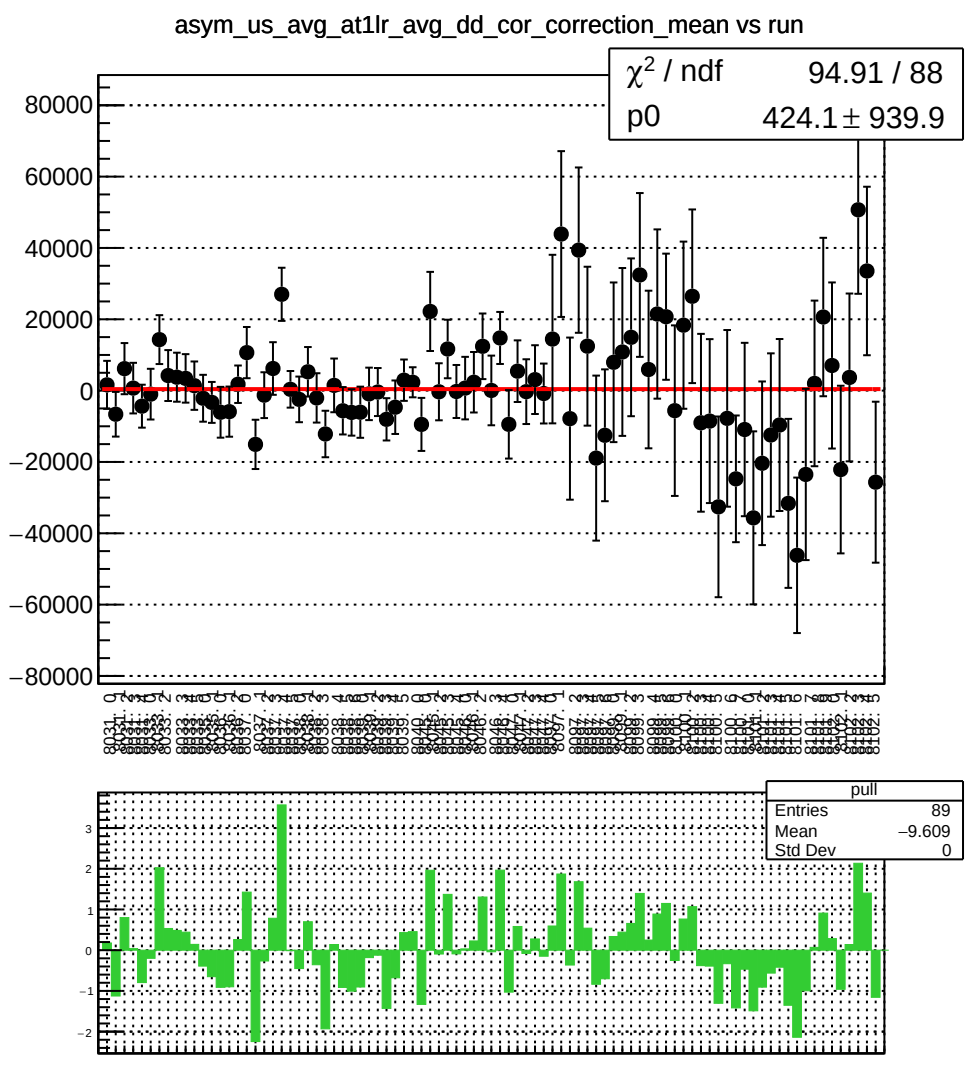

pull1D
Entries 89
Mean 0.02261
Std Dev 1.033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

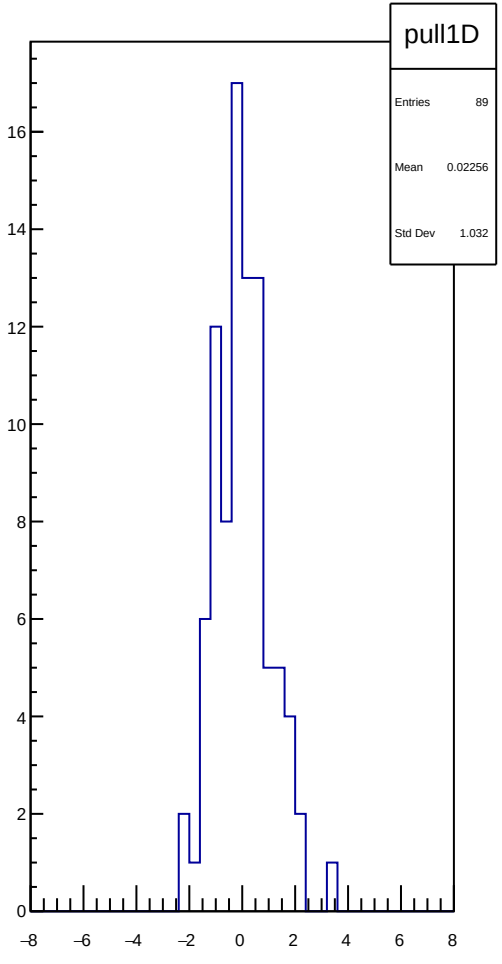

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ² / ndf 3.425e+05 / 88
p0 787.7 ± 0.6646
2500
2000
1500
1000
500

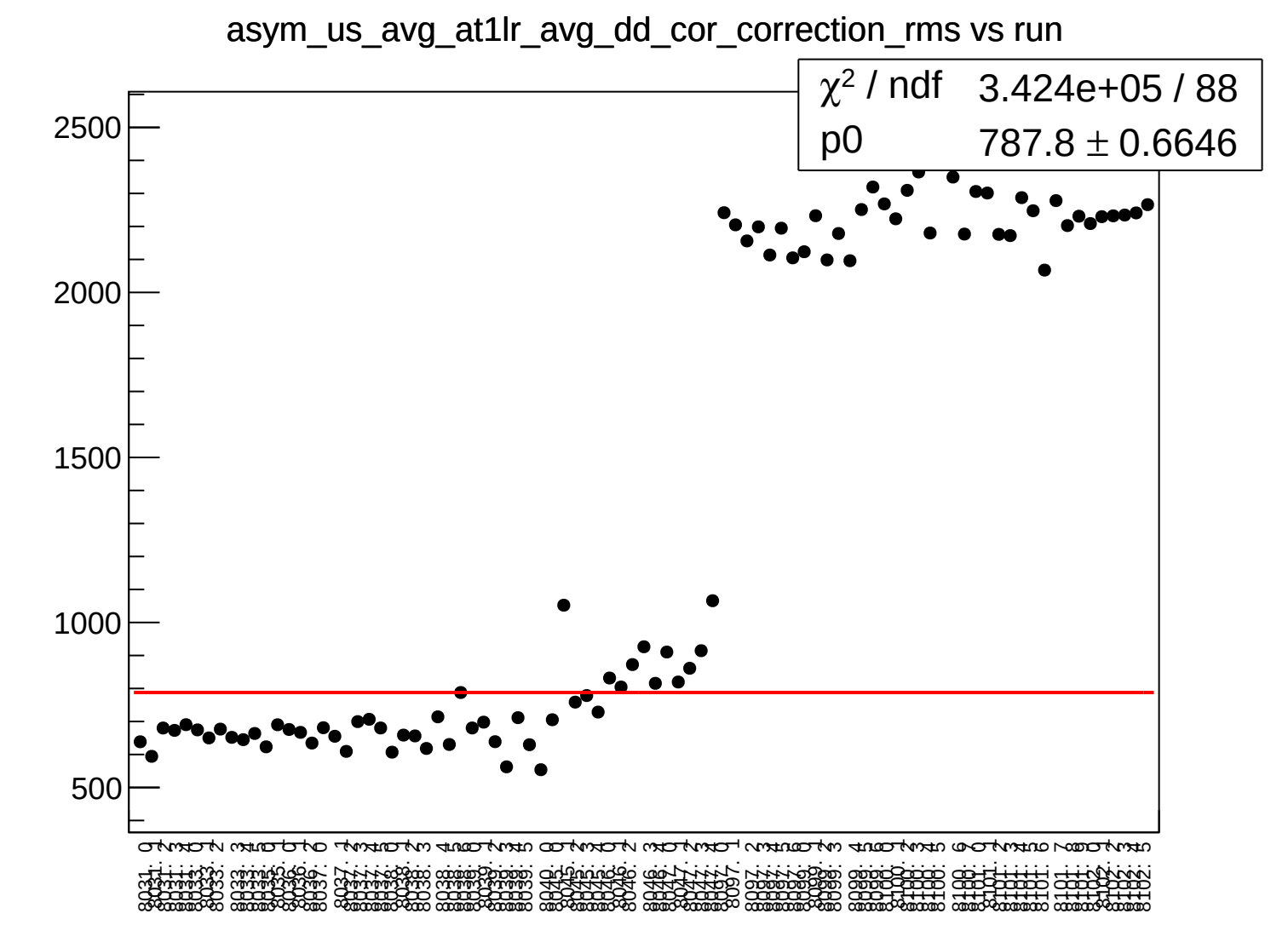

cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 86.81 / 88
p0 −1791 ± 1871
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 152.7
Std Dev 0
3
2
1
0
−1
−2

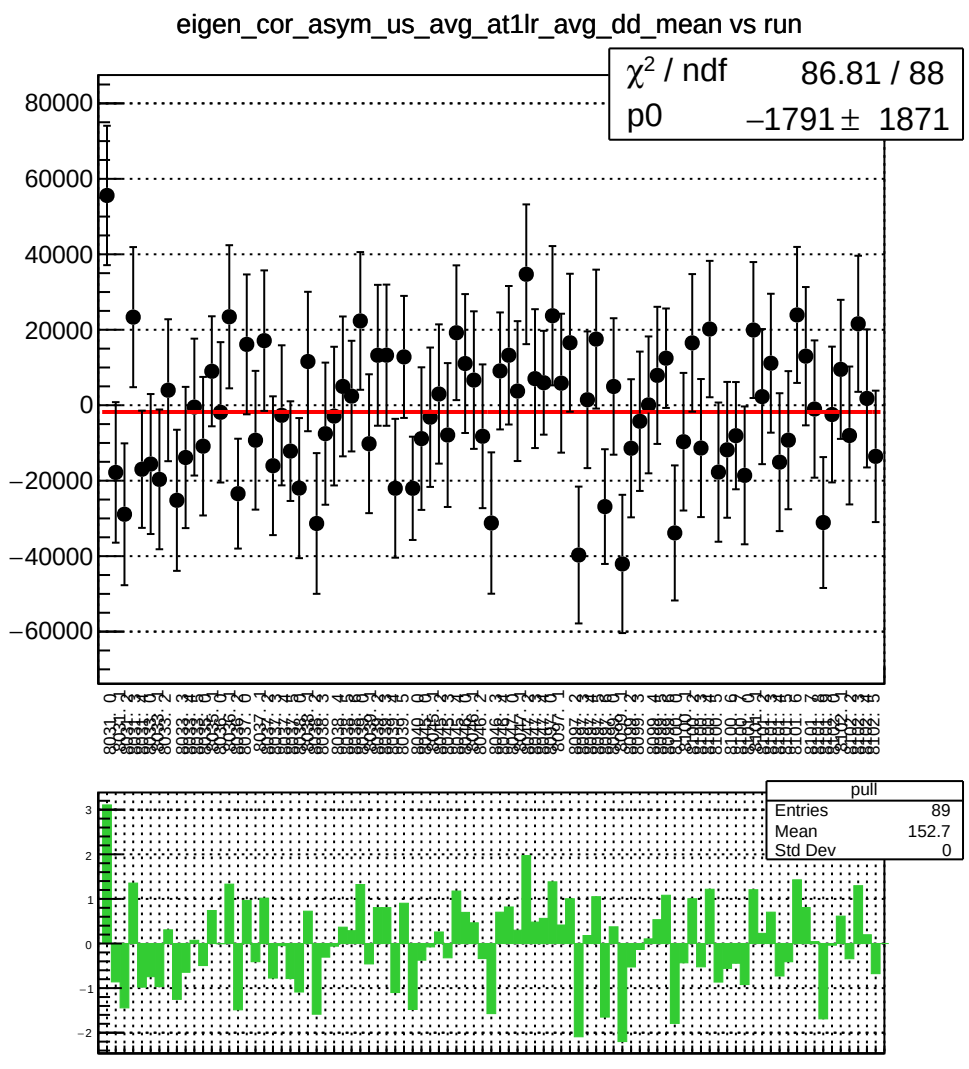

pull1D
Entries 89
Mean 0.008467
Std Dev 0.9876
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

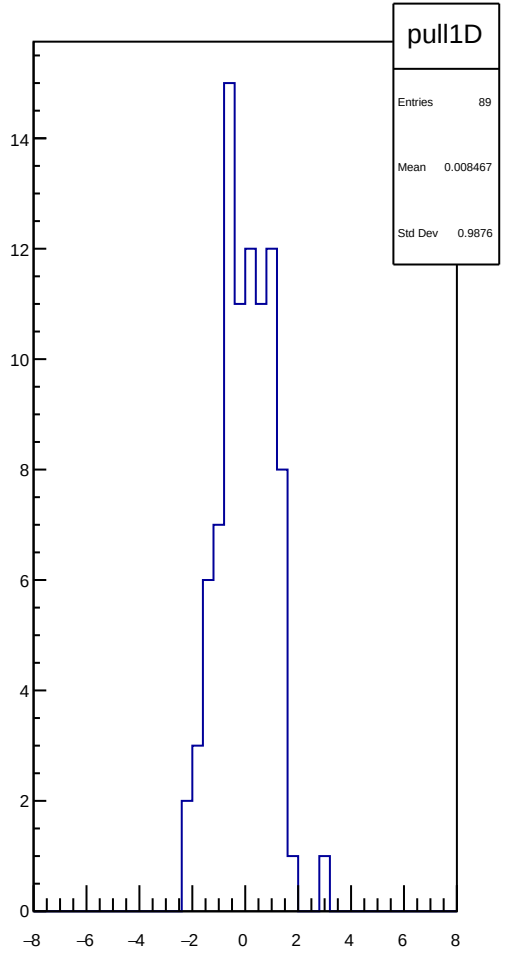

cor_asym_us_avg_at1lr_avg_dd_rms vs run
$\chi^2$ / ndf 314.4 / 88
p0 1748 ± 1.323
1820
1800
1780
1760
1740
1720
1700
1680

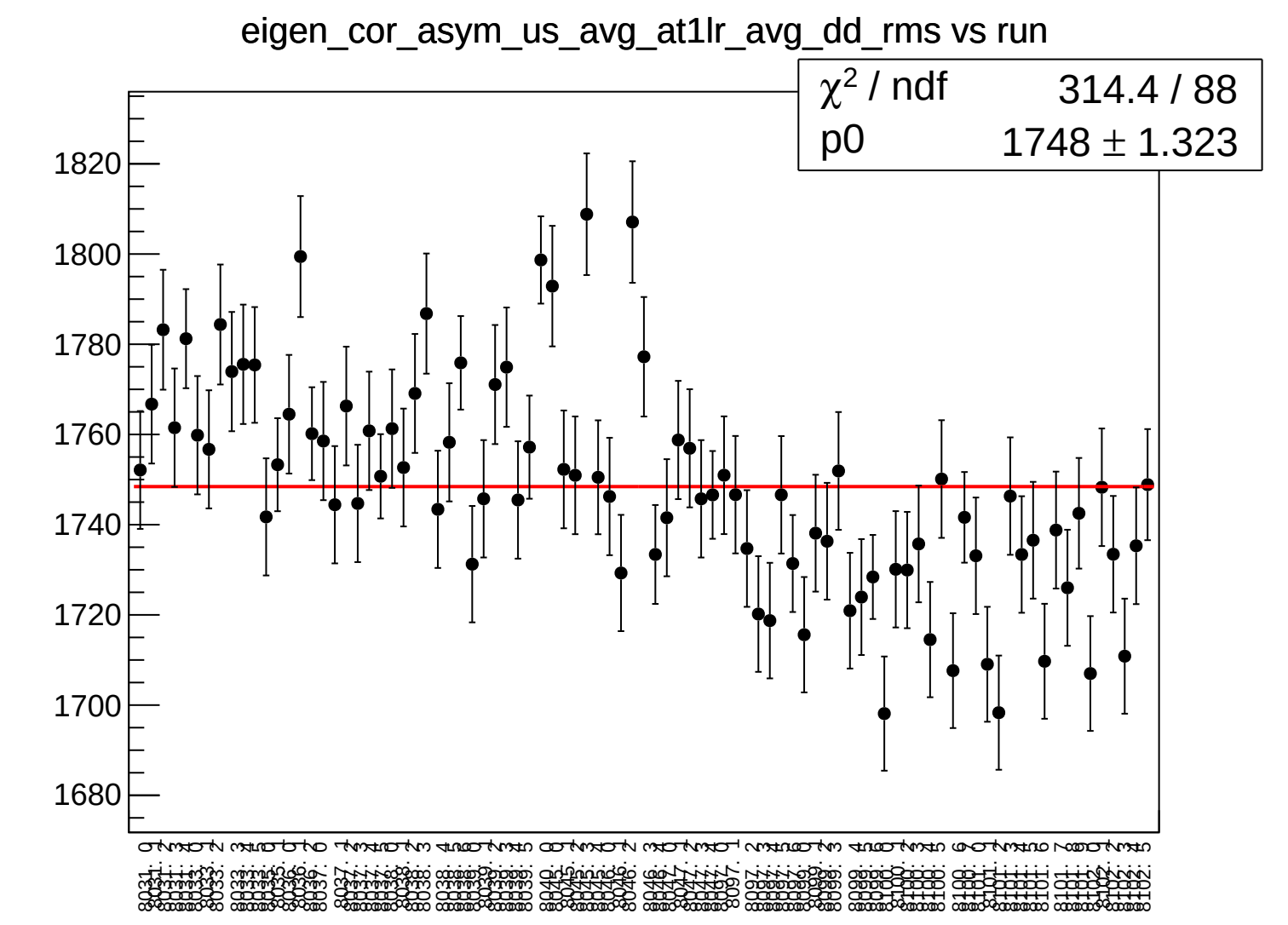

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 94.91 / 88
p0 424.1 ± 939.9
pull
Entries 89
Mean −9.609
Std Dev 0

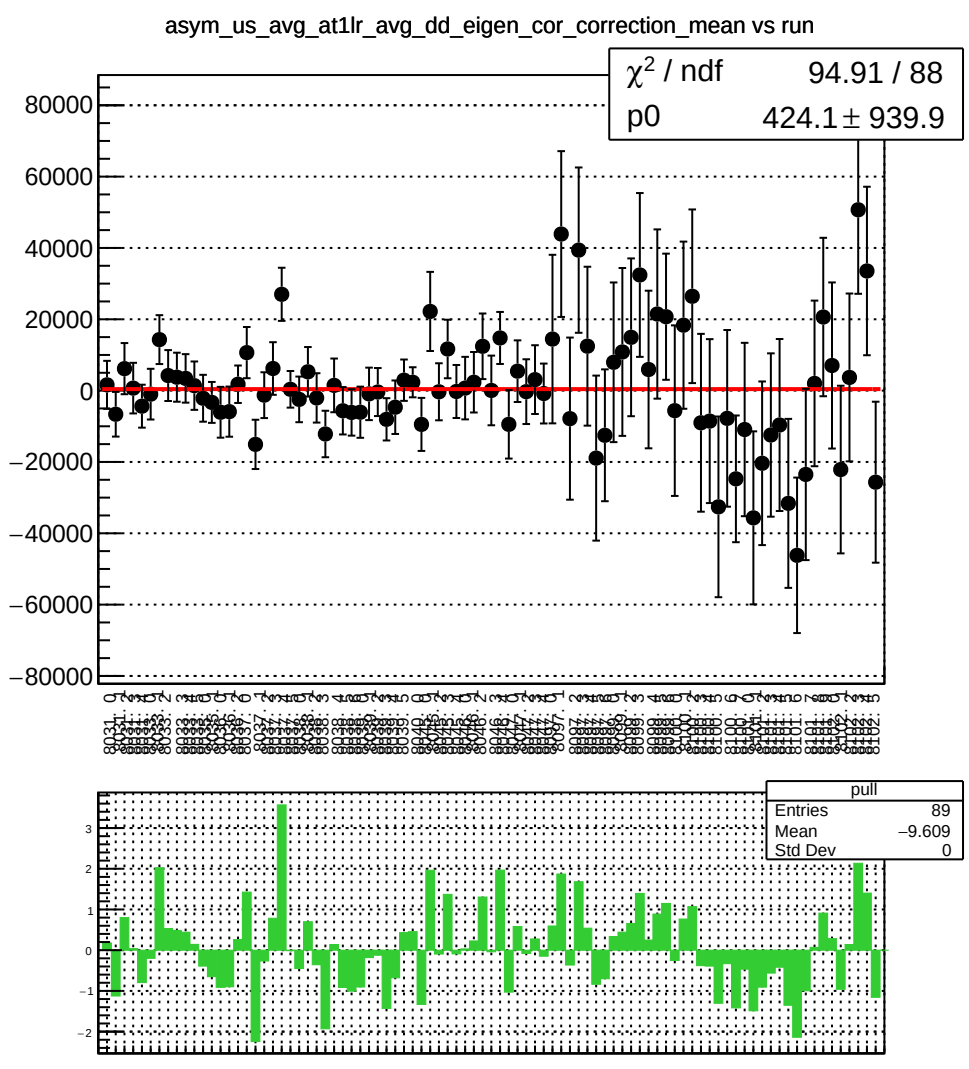

pull1D
Entries 89
Mean 0.02256
Std Dev 1.032

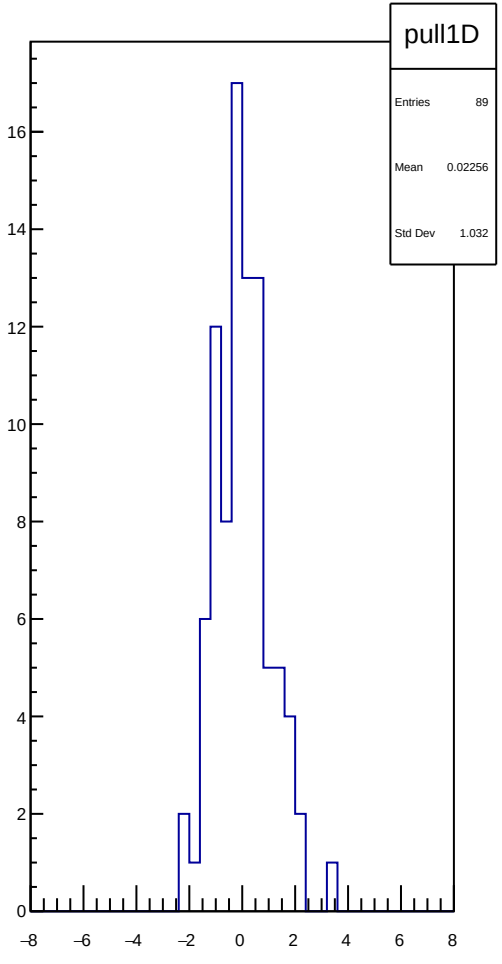

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ² / ndf 3.424e+05 / 88
p0 787.8 ± 0.6646
2500
2000
1500
1000
500

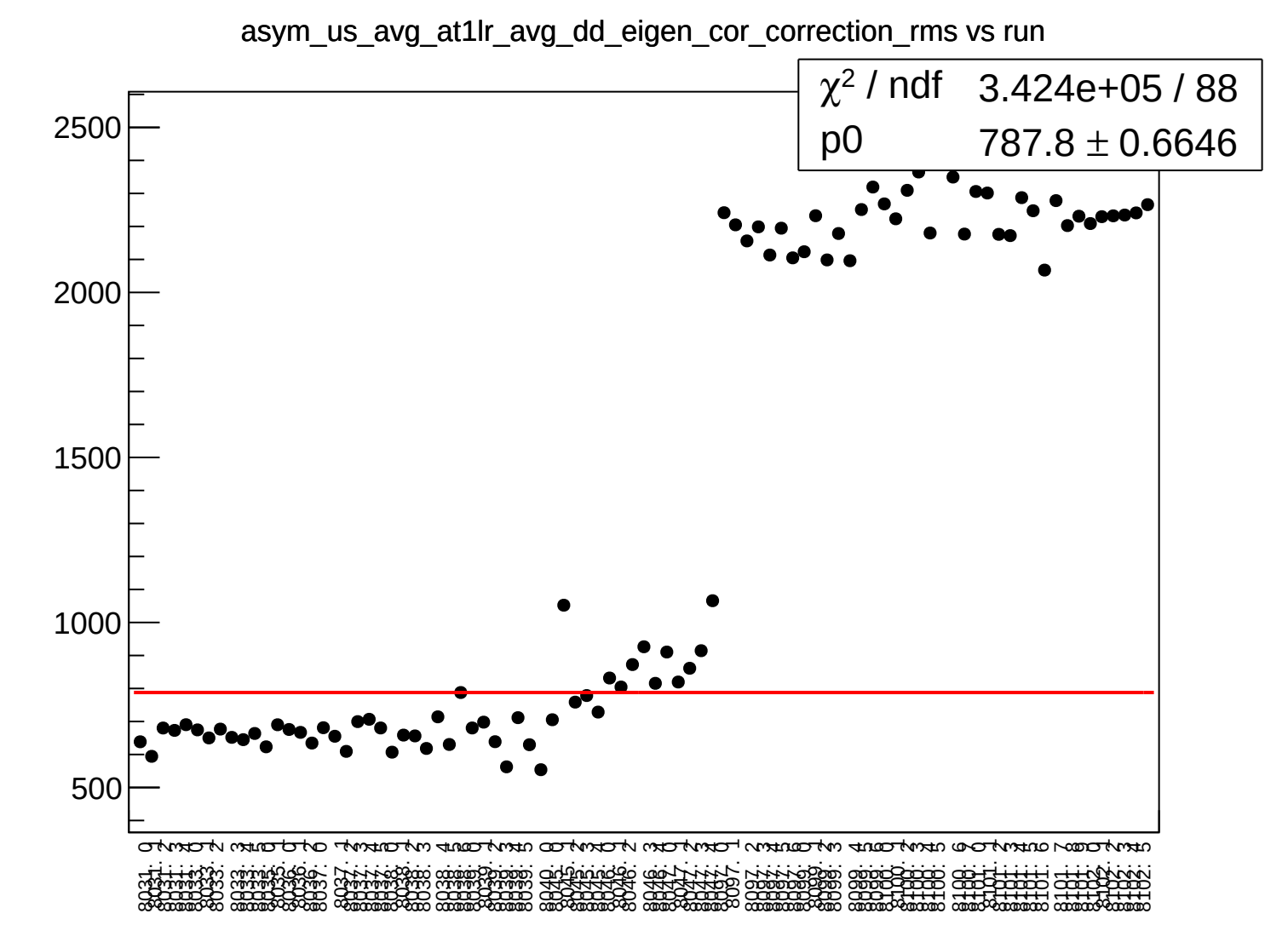

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 86.81 / 88
p0 −1791 ± 1871
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 152.7
Std Dev 0
3
2
1
0
−1
−2

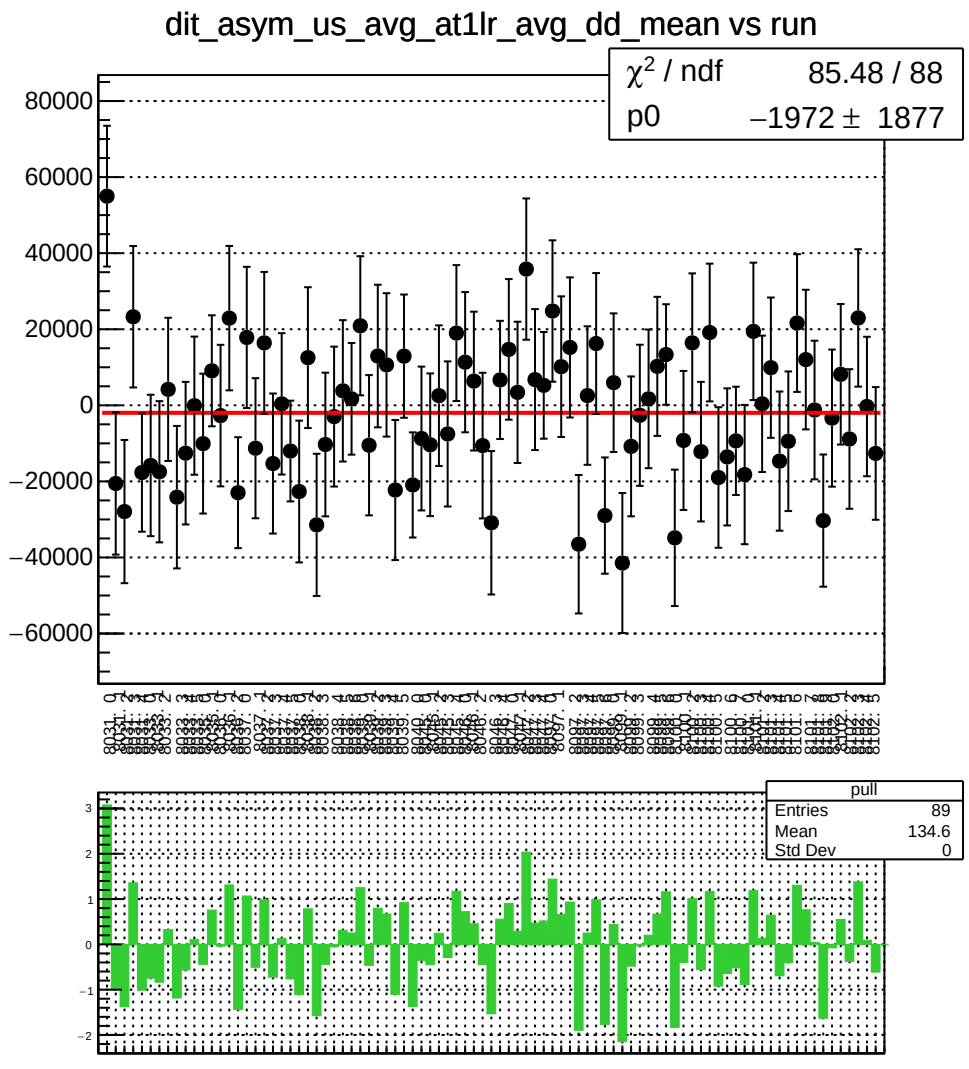

pull1D
Entries 89
Mean 0.008467
Std Dev 0.9876
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

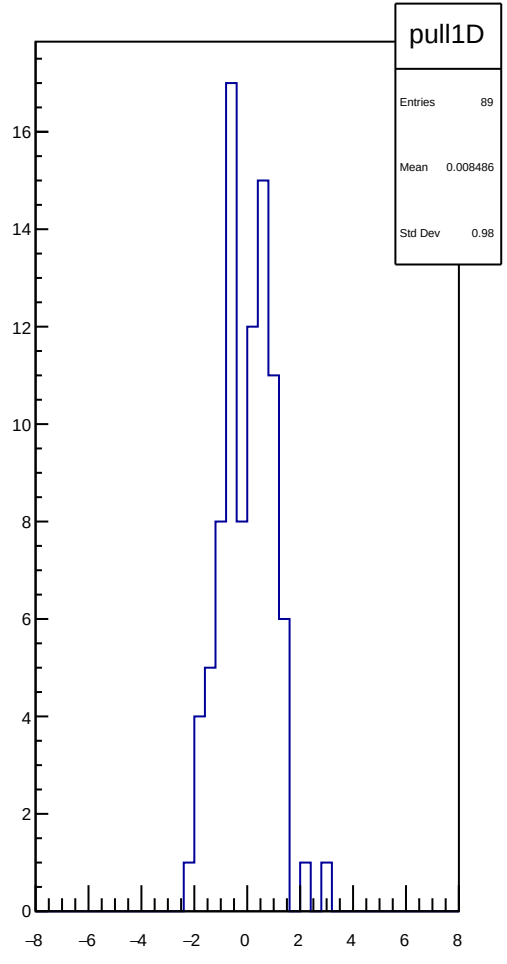

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 314.4 / 88
p0 1748 ± 1.323
1820
1800
1780
1760
1740
1720
1700
1680

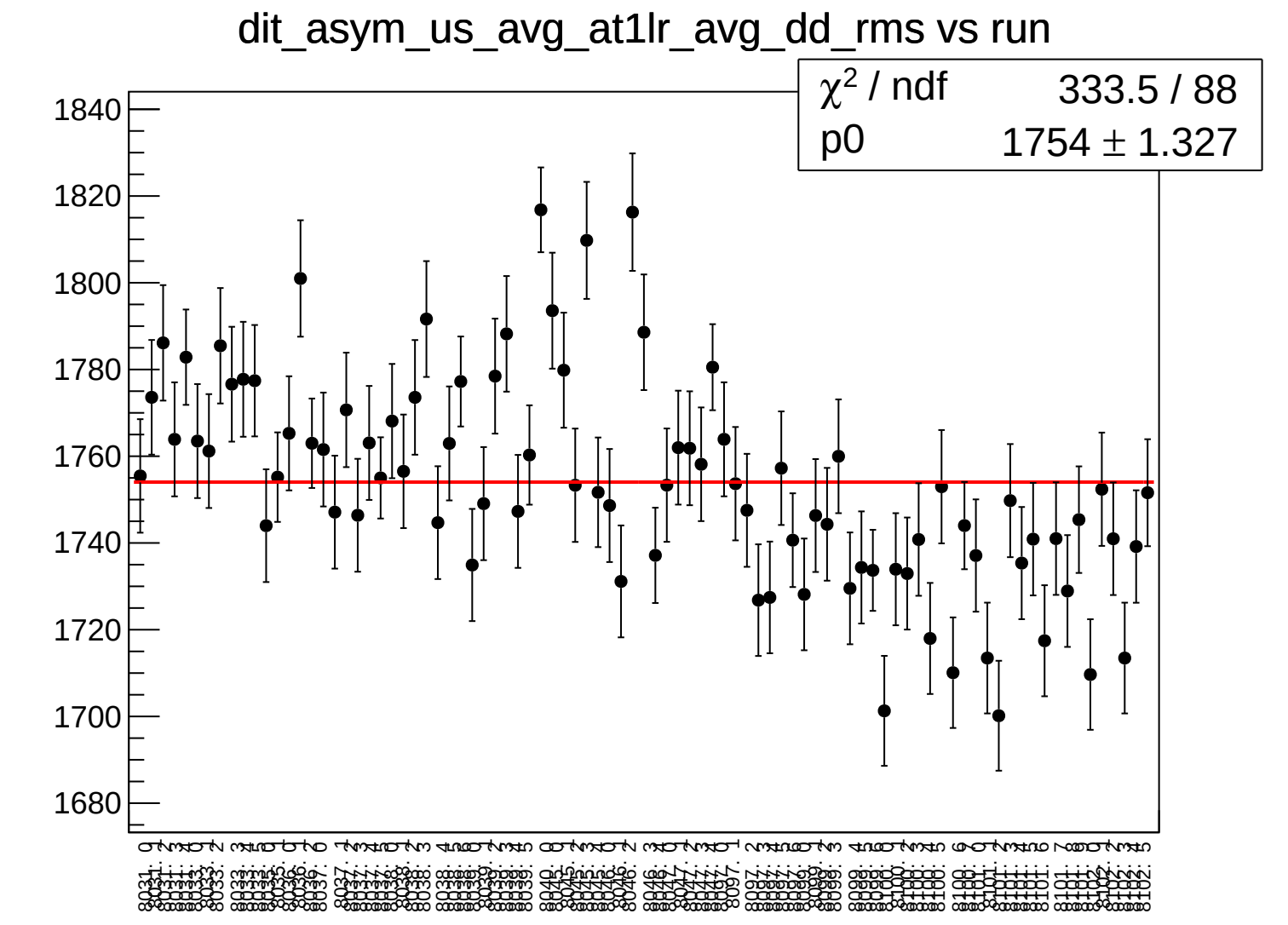

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 94.91 / 88
p0 424.1 ± 939.9
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −9.609
Std Dev 0
3
2
1
0
−1
−2

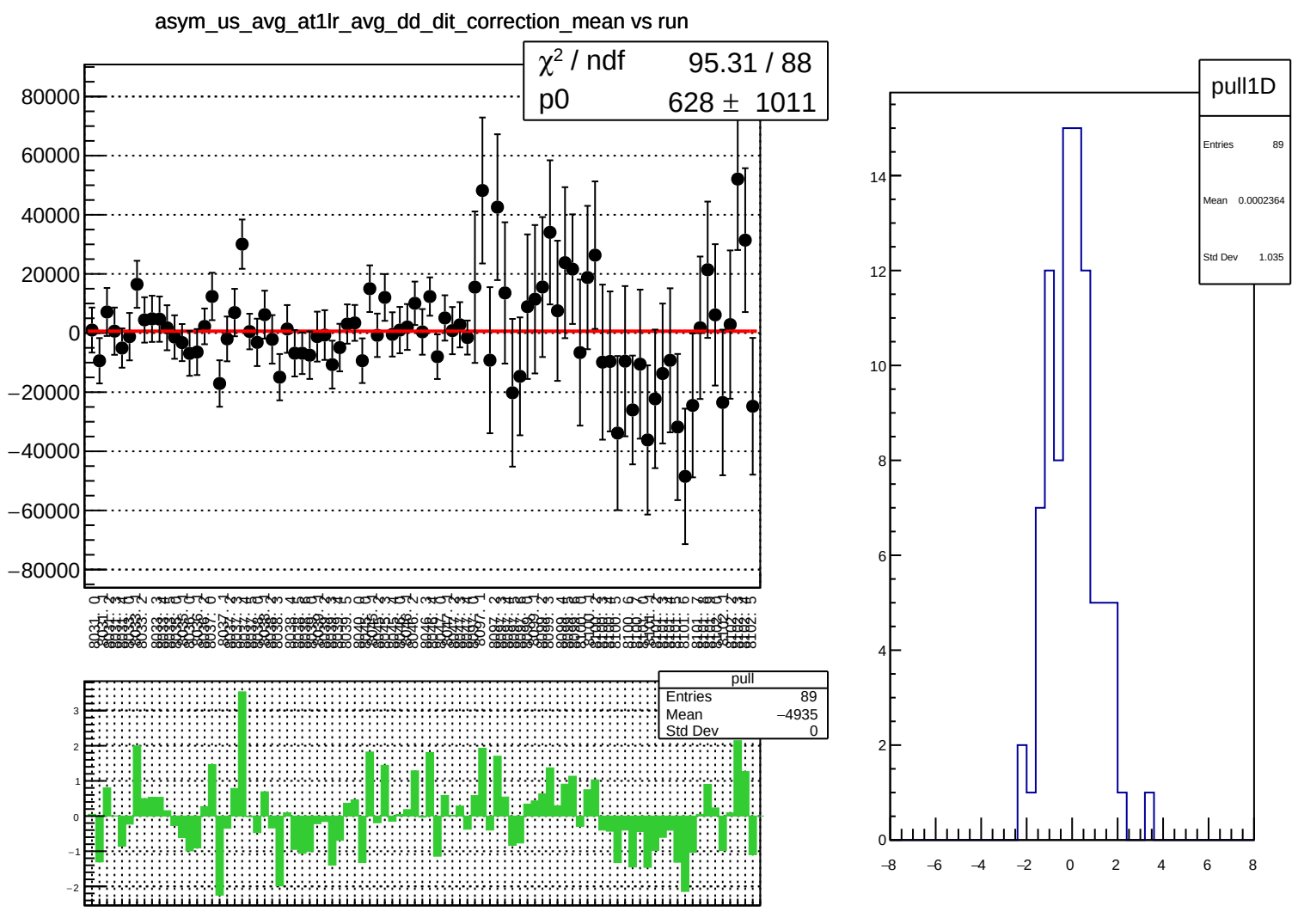

pull1D
Entries 89
Mean 0.02256
Std Dev 1.032
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

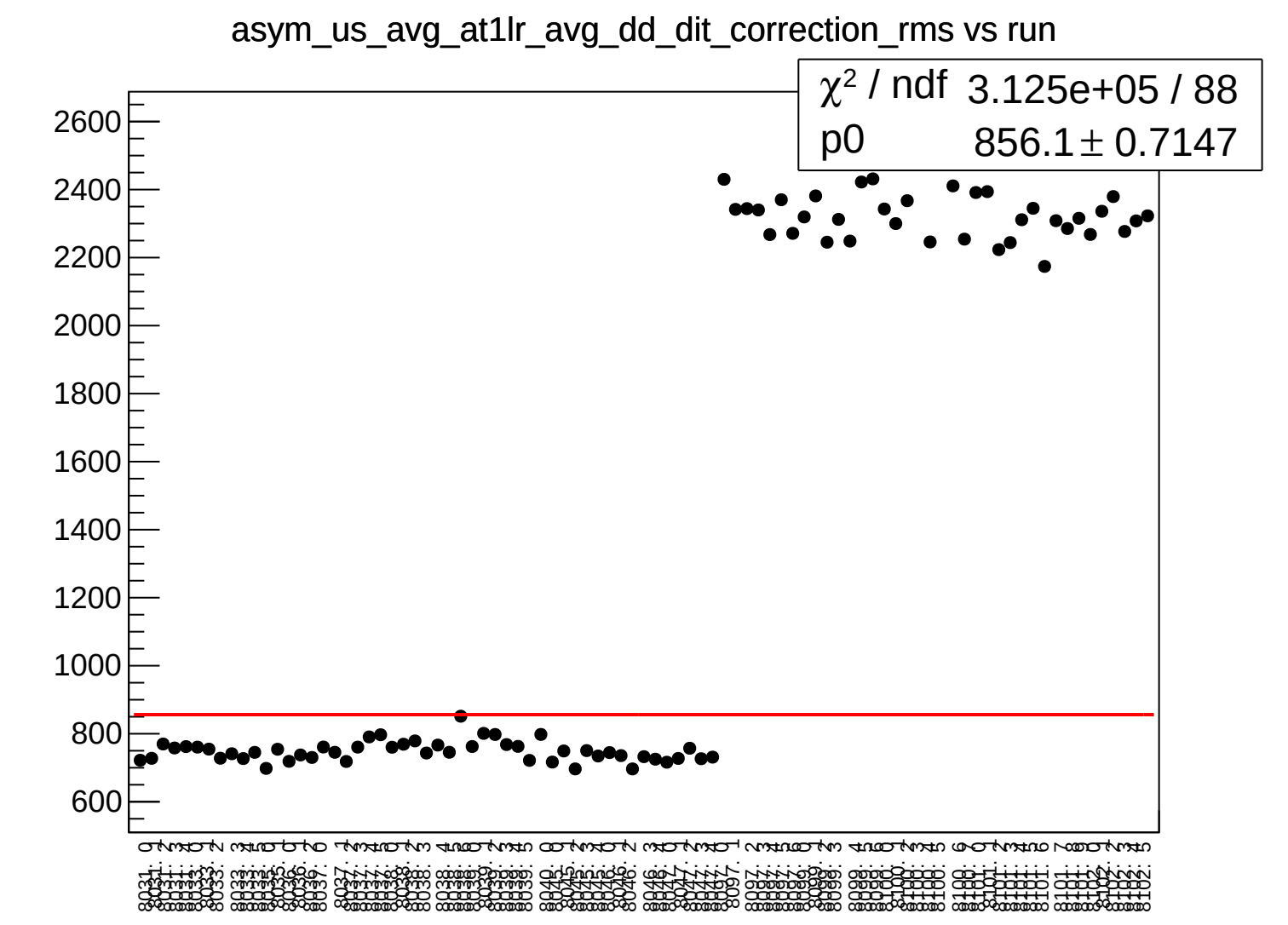

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.424e+05 / 88
p0 787.8 ± 0.6646
2500
2000
1500
1000
500

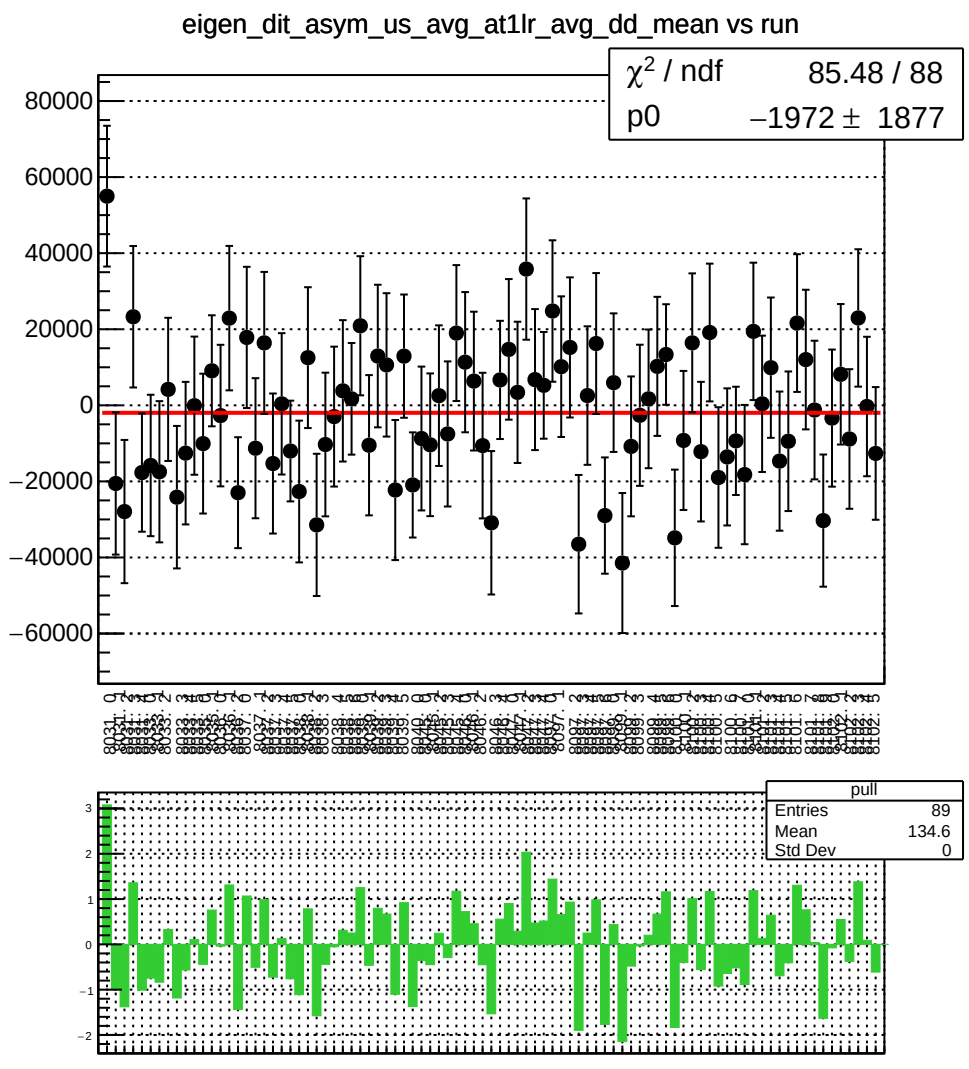

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 85.48 / 88
p0 −1972 ± 1877
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 134.6
Std Dev 0
3
2
1
0
−1
−2

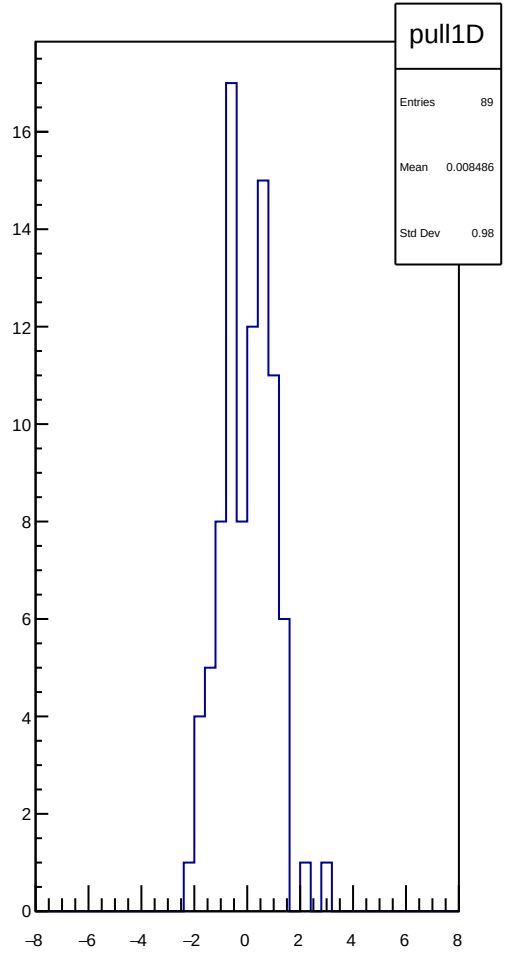

pull1D
Entries 89
Mean 0.008486
Std Dev 0.98
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

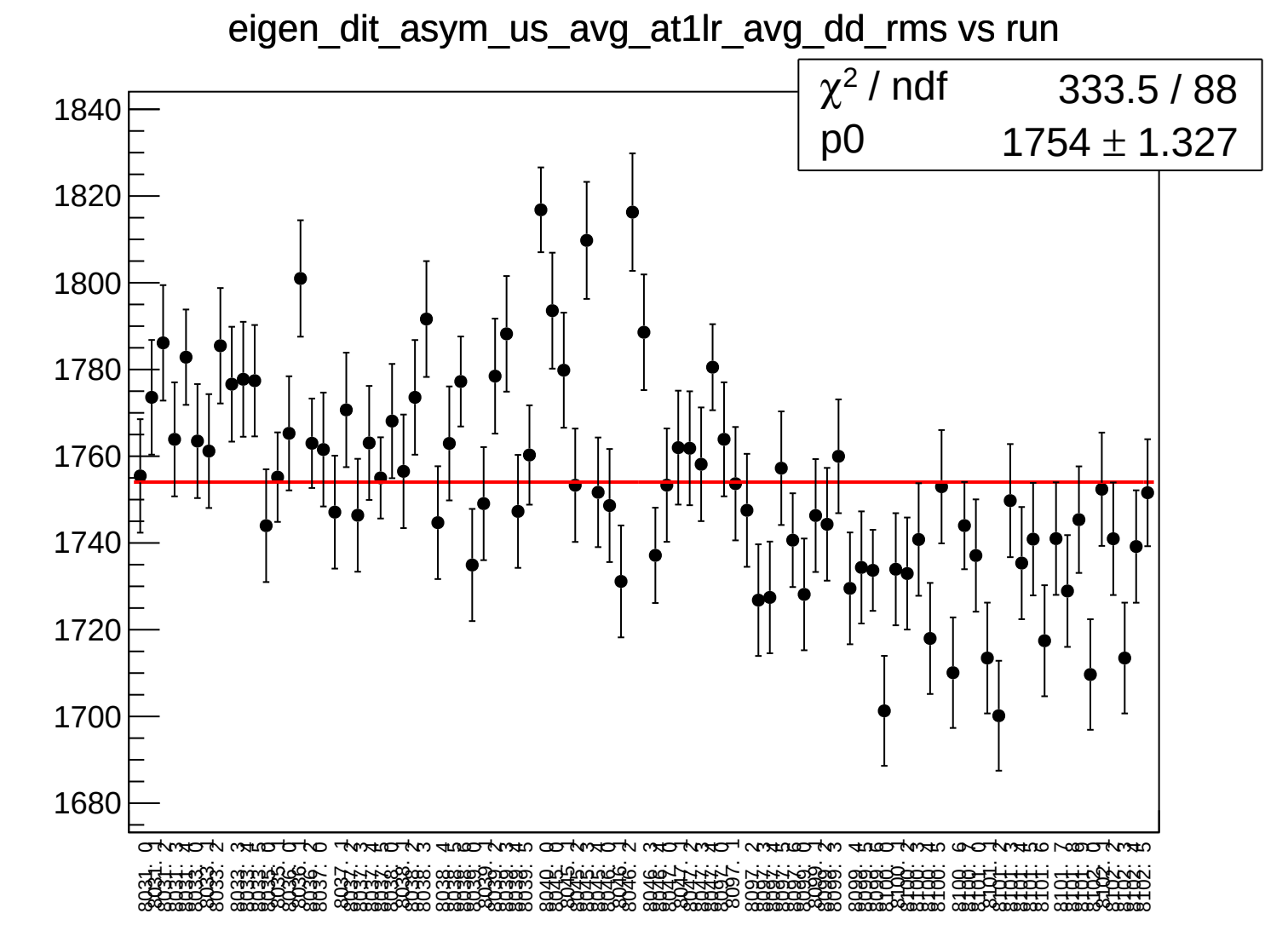

dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 333.5 / 88
p0 1754 ± 1.327
1840
1820
1800
1780
1760
1740
1720
1700
1680

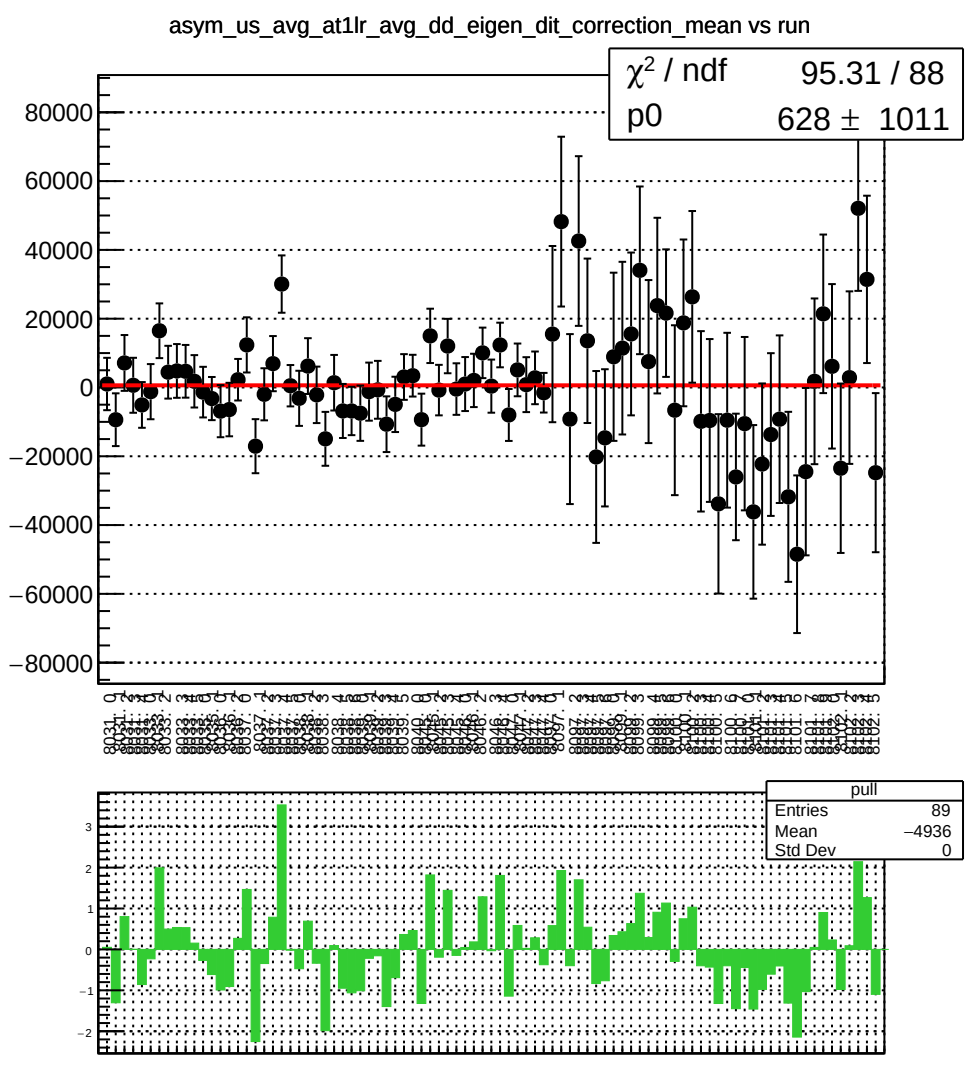

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
χ² / ndf 95.31 / 88
p0 628 ± 1011
pull
Entries 89
Mean −4935
Std Dev 0
pull1D
Entries 89
Mean 0.0002364
Std Dev 1.035

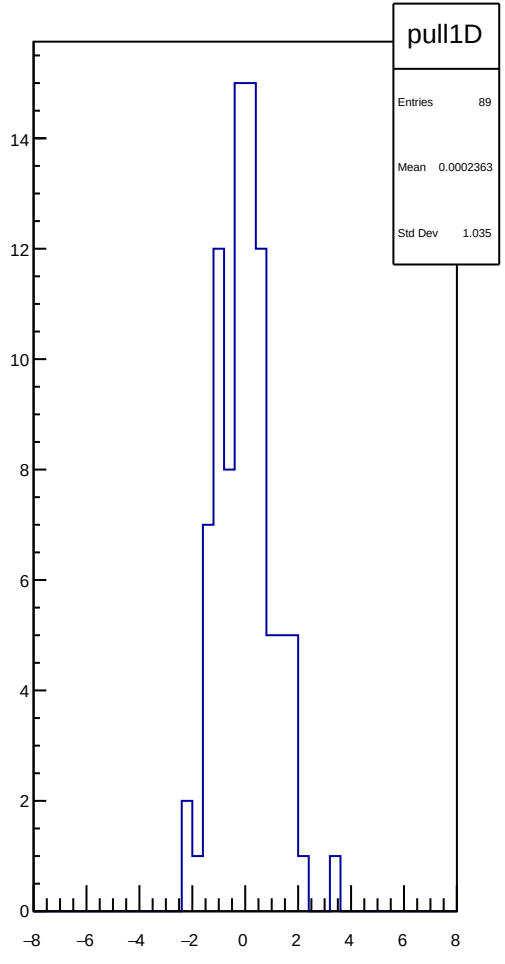

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ² / ndf 3.125e+05 / 88
p0 856.1 ± 0.7147
2600
2400
2200
2000
1800
1600
1400
1200
1000
800
600

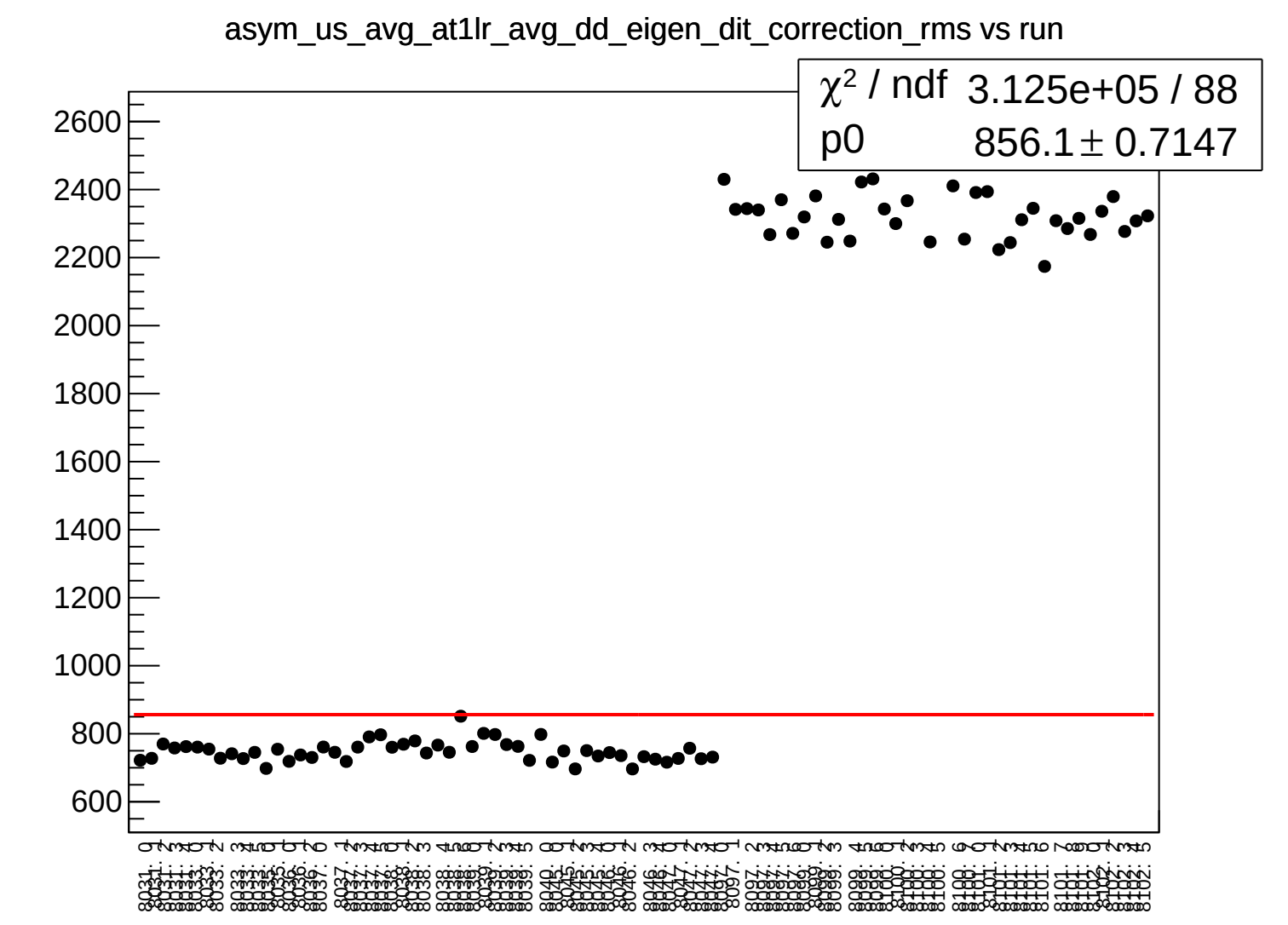

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 85.48 / 88
p0 −1972 ± 1877
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 134.6
Std Dev 0
3
2
1
0
−1
−2

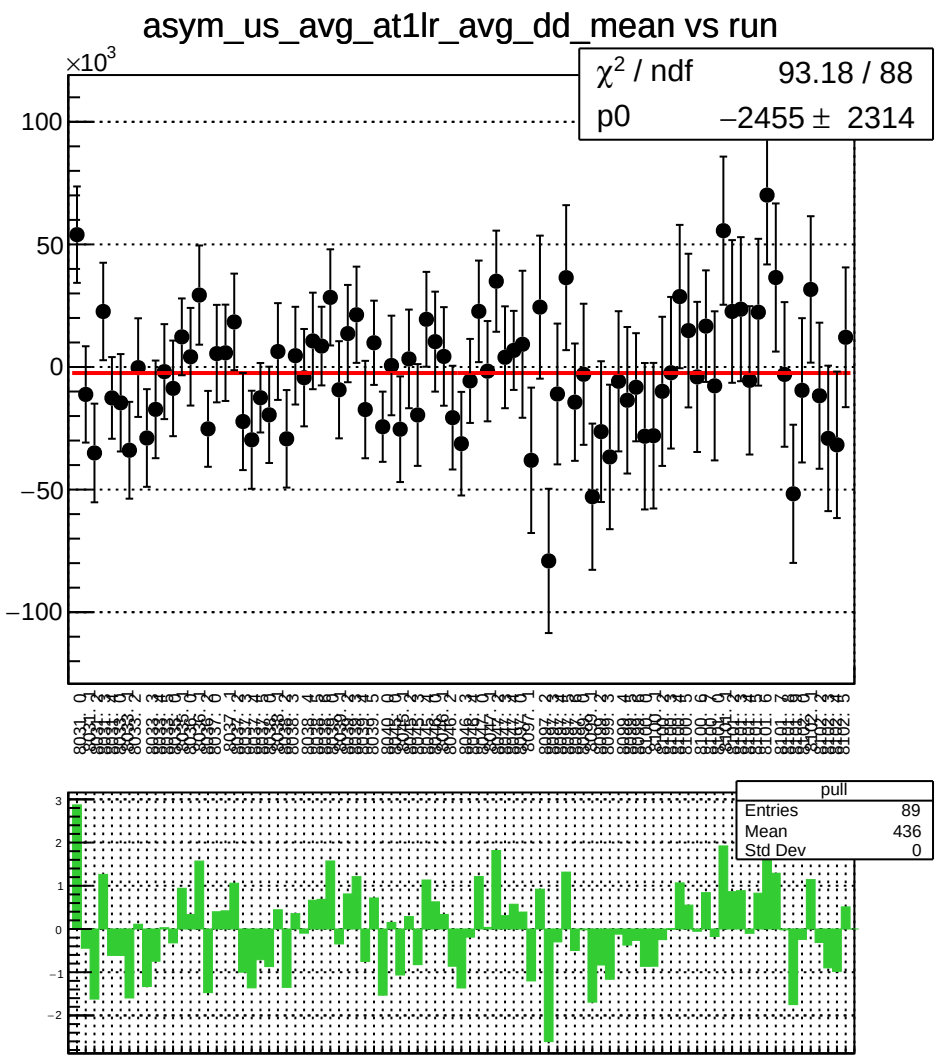

pull1D
Entries 89
Mean 0.008486
Std Dev 0.98
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

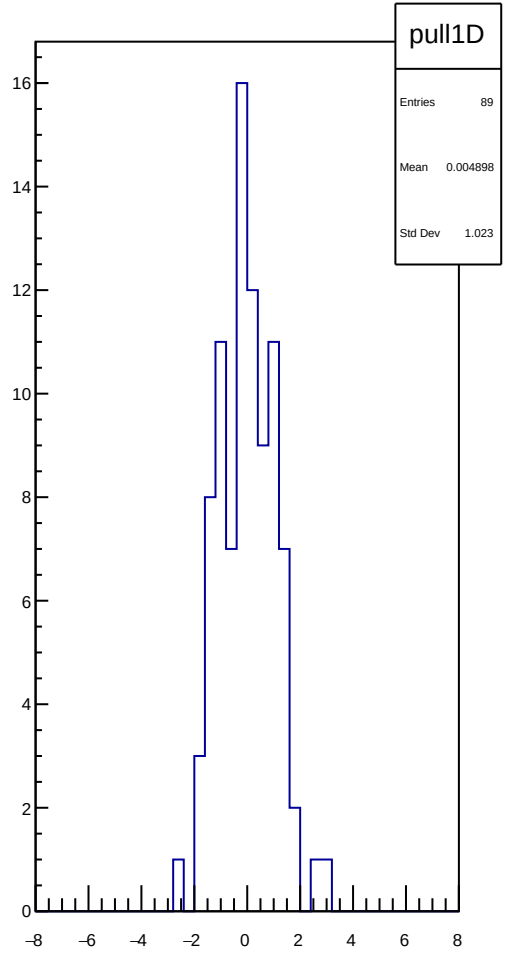

eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 333.5 / 88
p0 1754 ± 1.327
1840
1820
1800
1780
1760
1740
1720
1700
1680

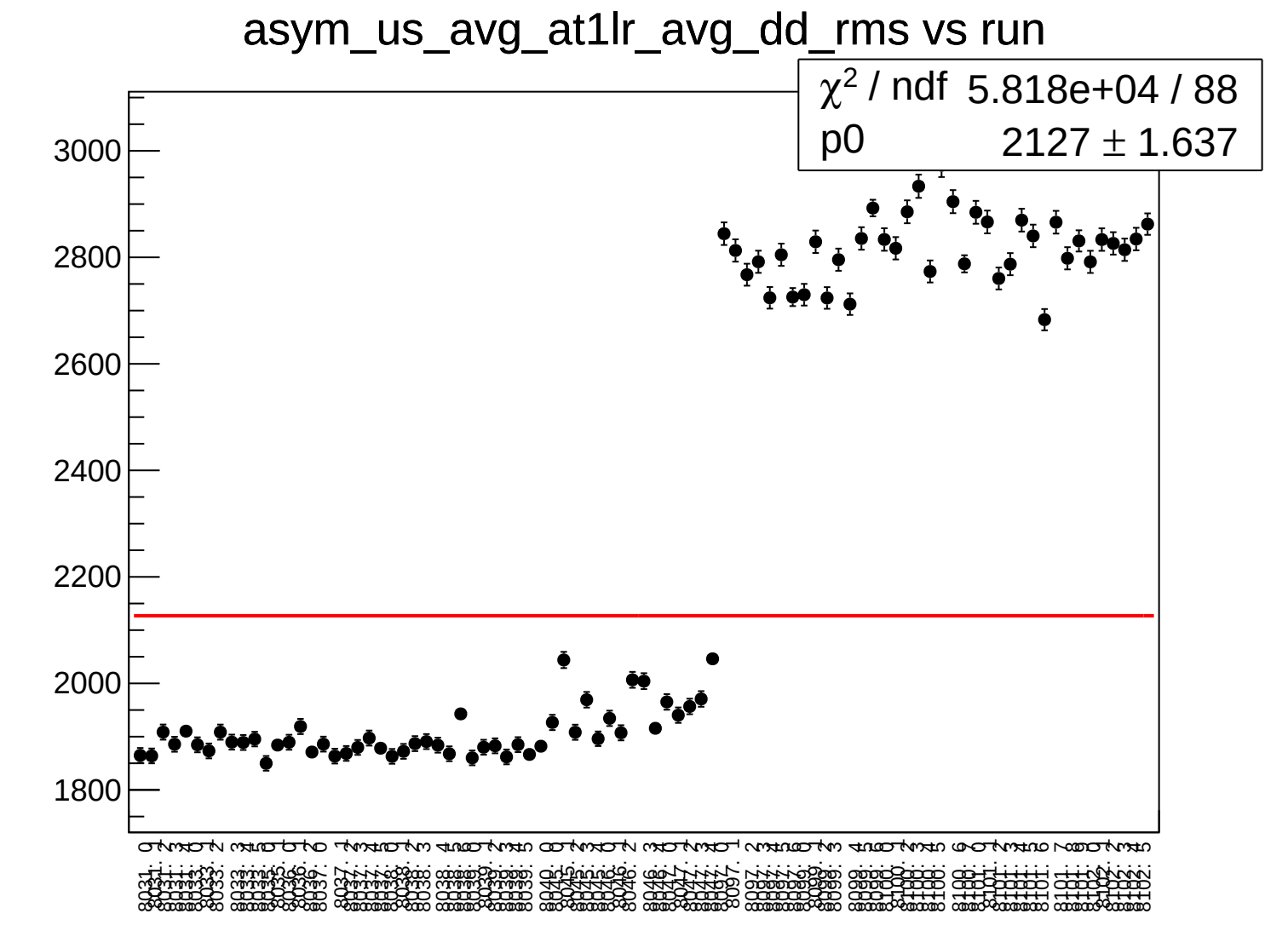

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 95.31 / 88
p0 628 ± 1011
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −4936
Std Dev 0
3
2
1
0
−1
−2

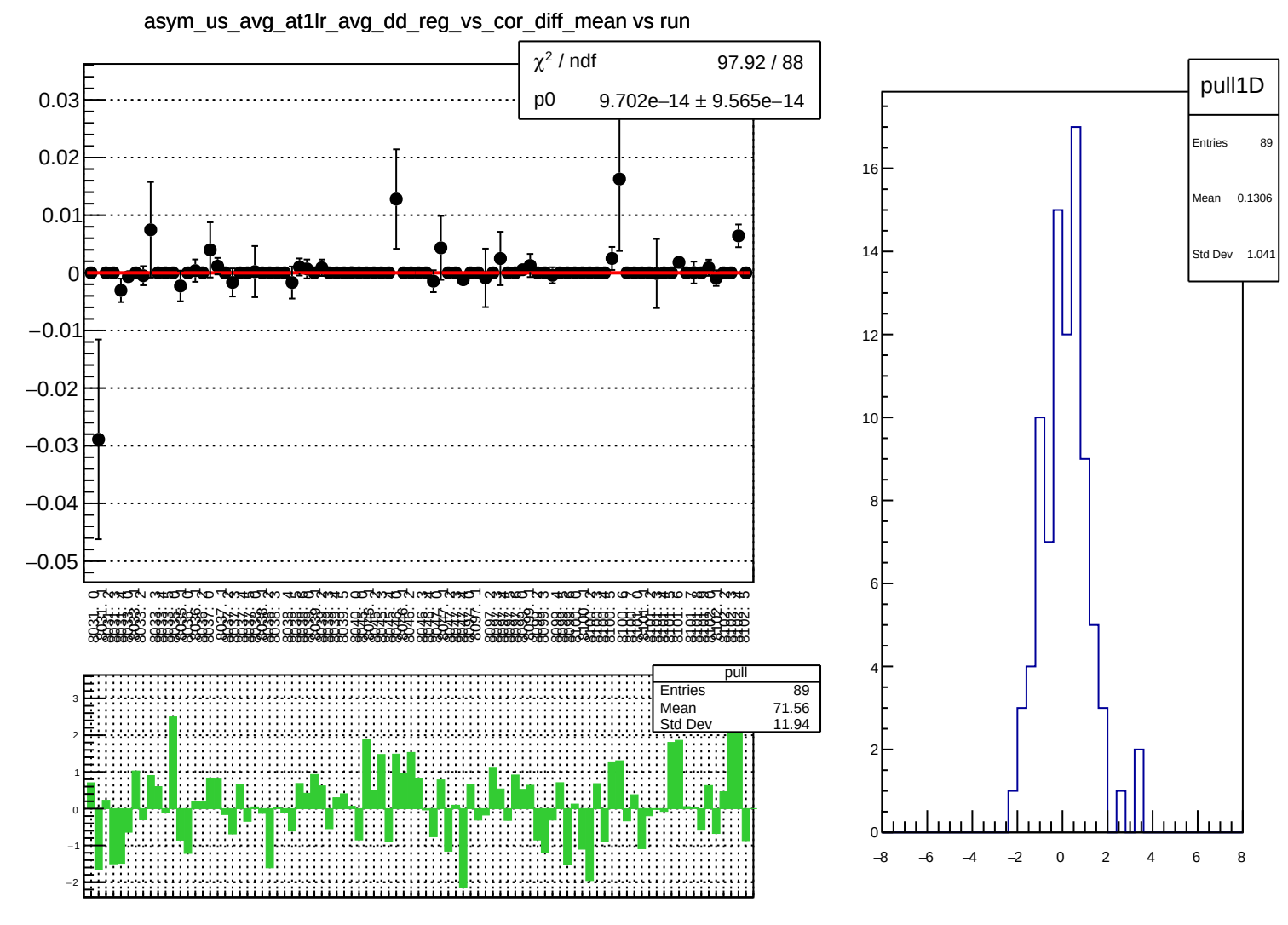

pull1D
Entries 89
Mean 0.0002363
Std Dev 1.035
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

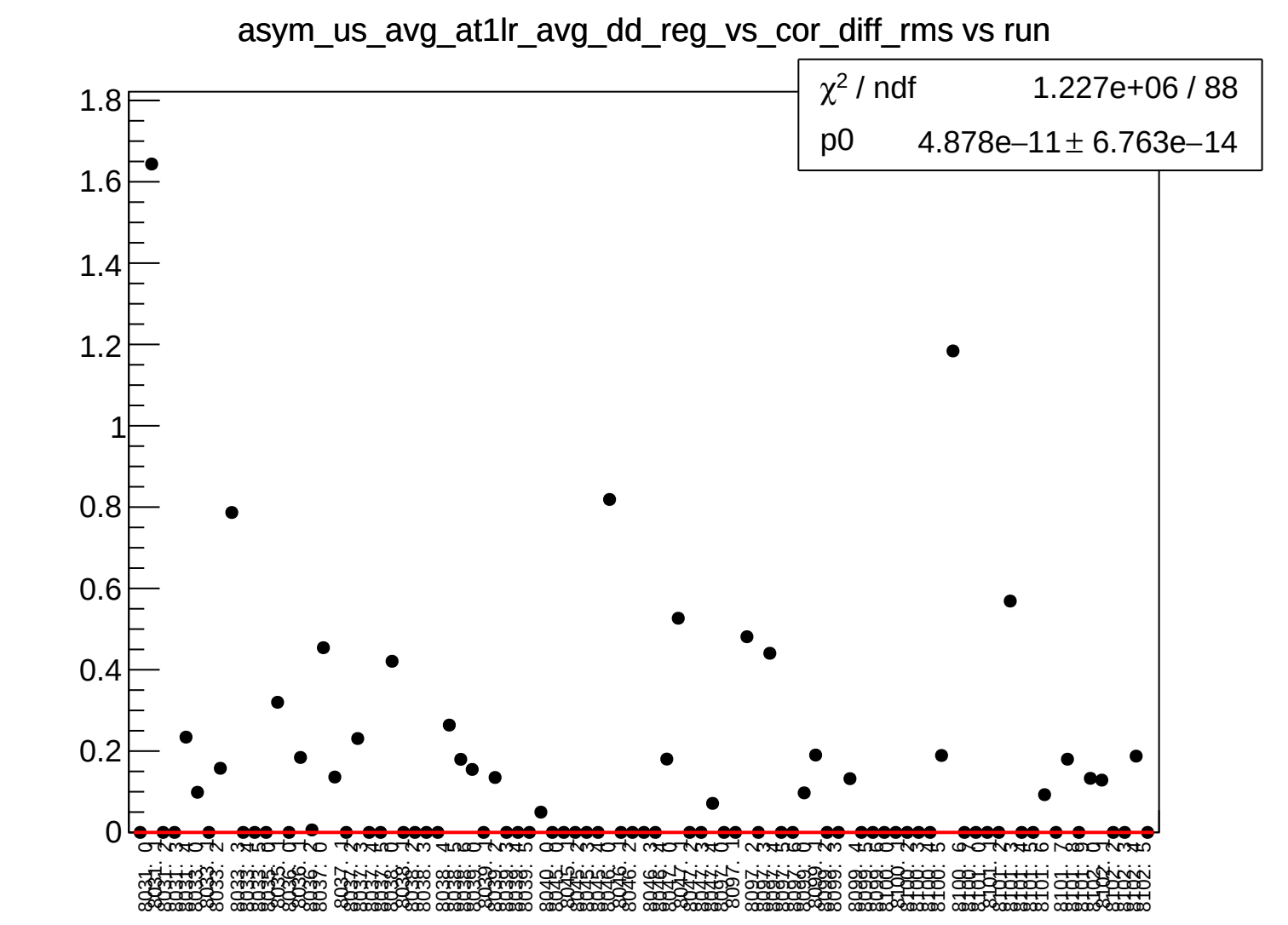

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.125e+05 / 88
p0 856.1 ± 0.7147
2600
2400
2200
2000
1800
1600
1400
1200
1000
800
600

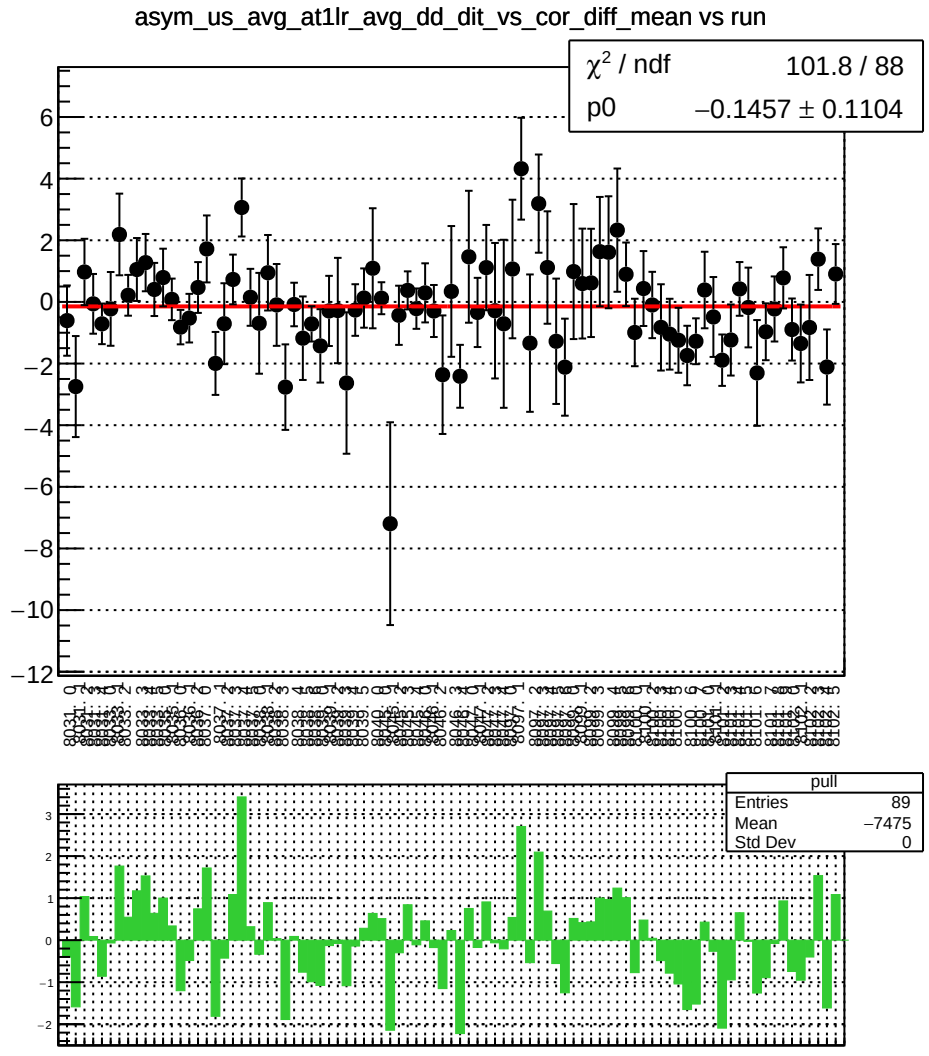

asym_us_avg_at1lr_avg_dd_mean vs run
×10^3
χ² / ndf 93.18 / 88
p0 −2455 ± 2314
100
50
0
−50
−100
pull
Entries 89
Mean 436
Std Dev 0
3
2
1
0
−1
−2

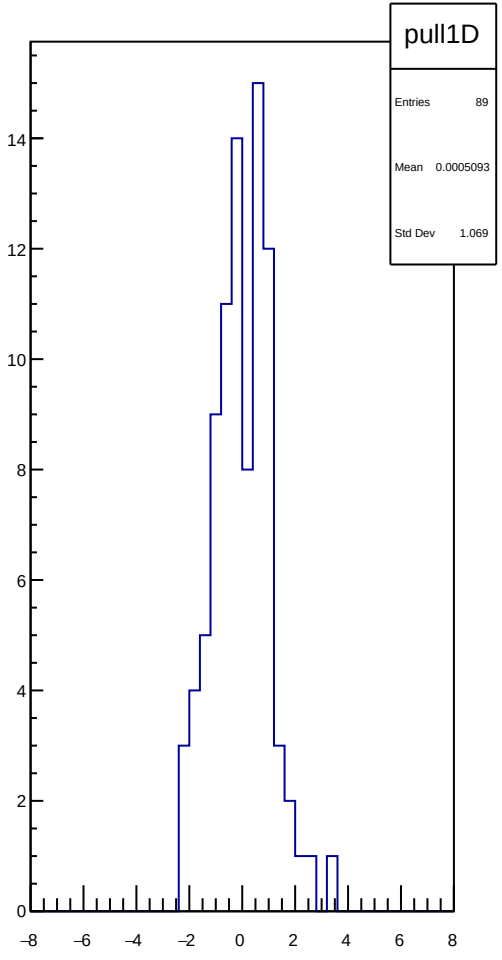

pull1D
Entries 89
Mean 0.004898
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

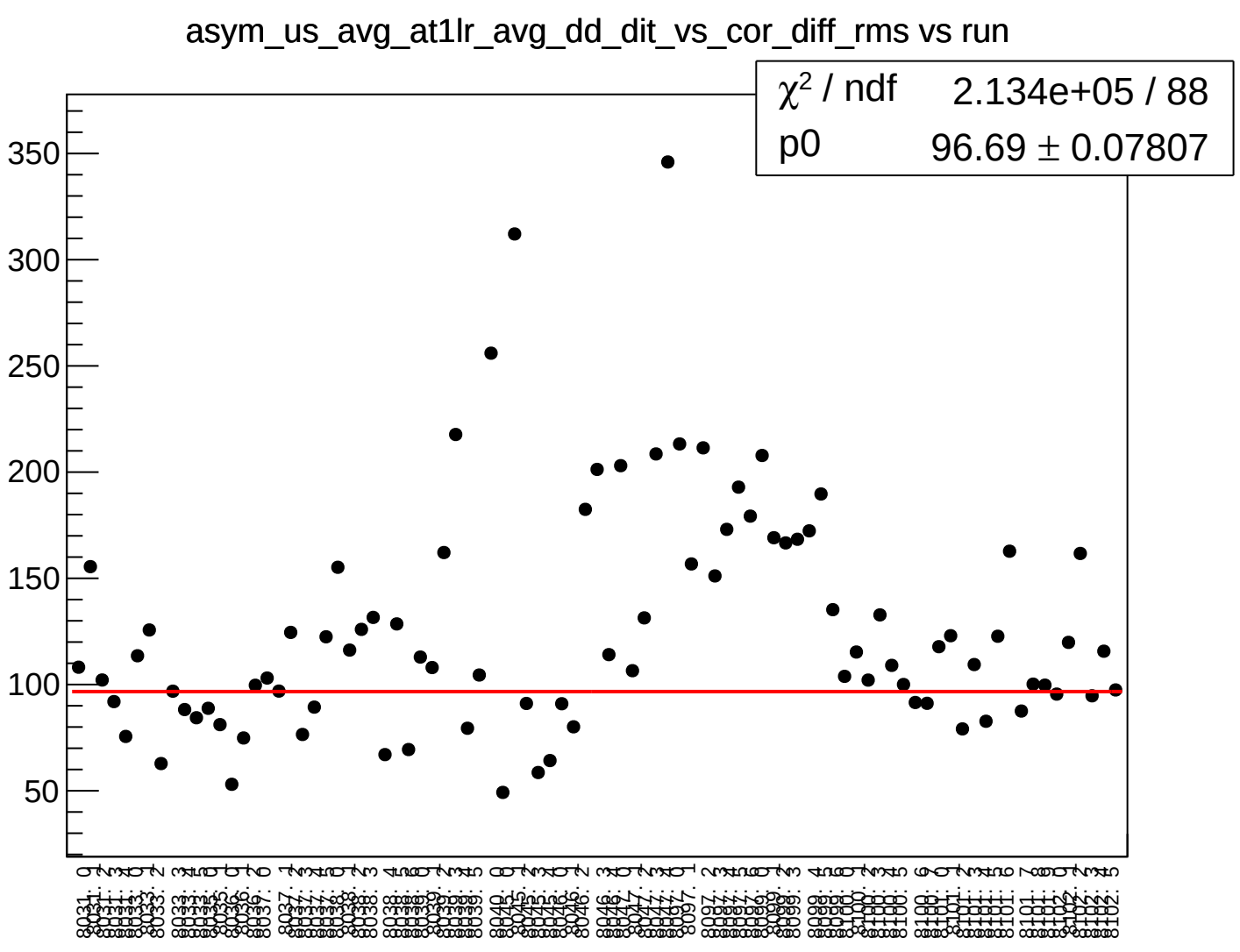

asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 5.818e+04 / 88
p0 2127 ± 1.637
3000
2800
2600
2400
2200
2000
1800

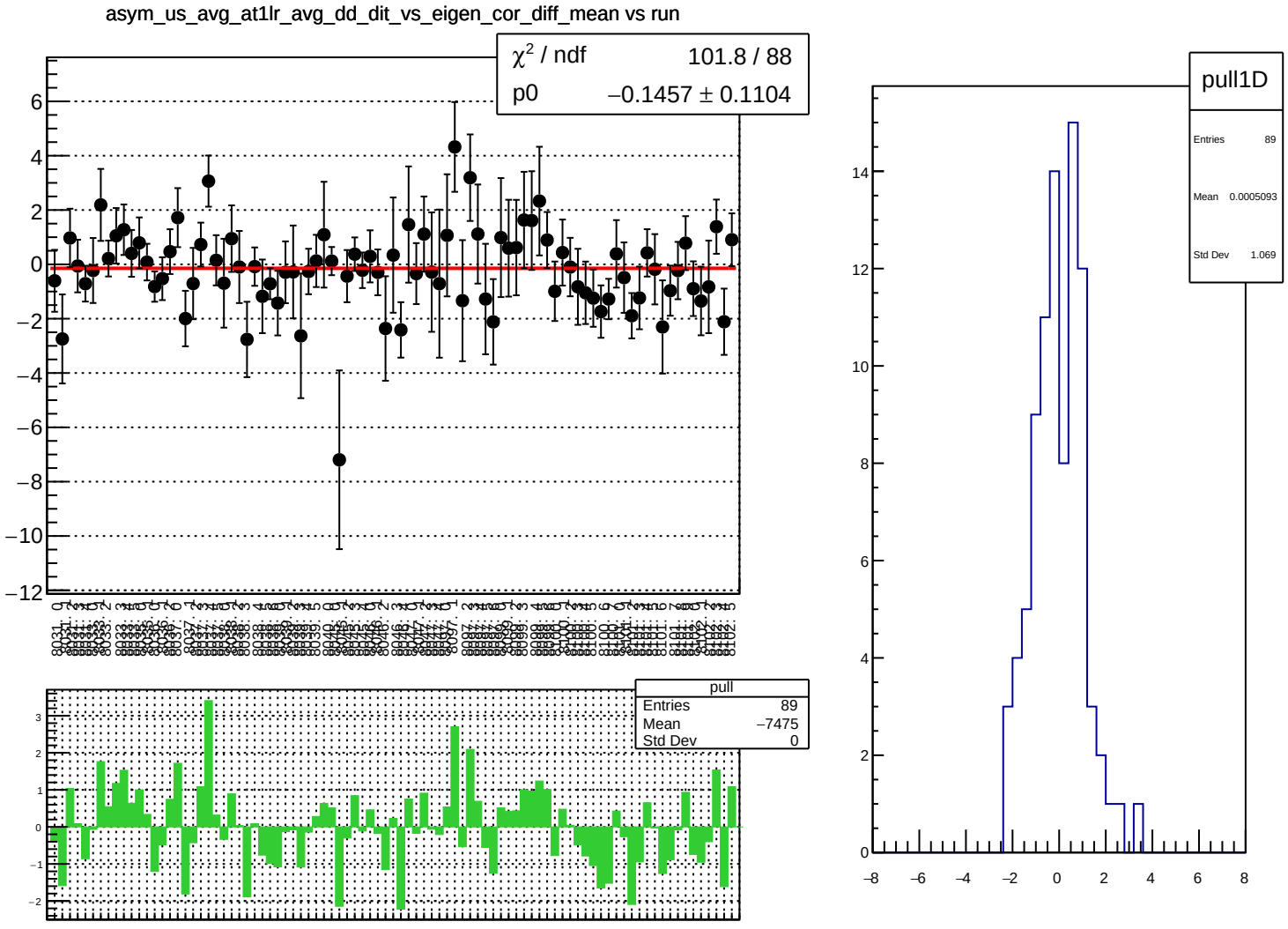

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 97.92 / 88
p0 9.702e−14 ± 9.565e−14
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
−0.05
pull
Entries 89
Mean 71.56
Std Dev 11.94
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.1306
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

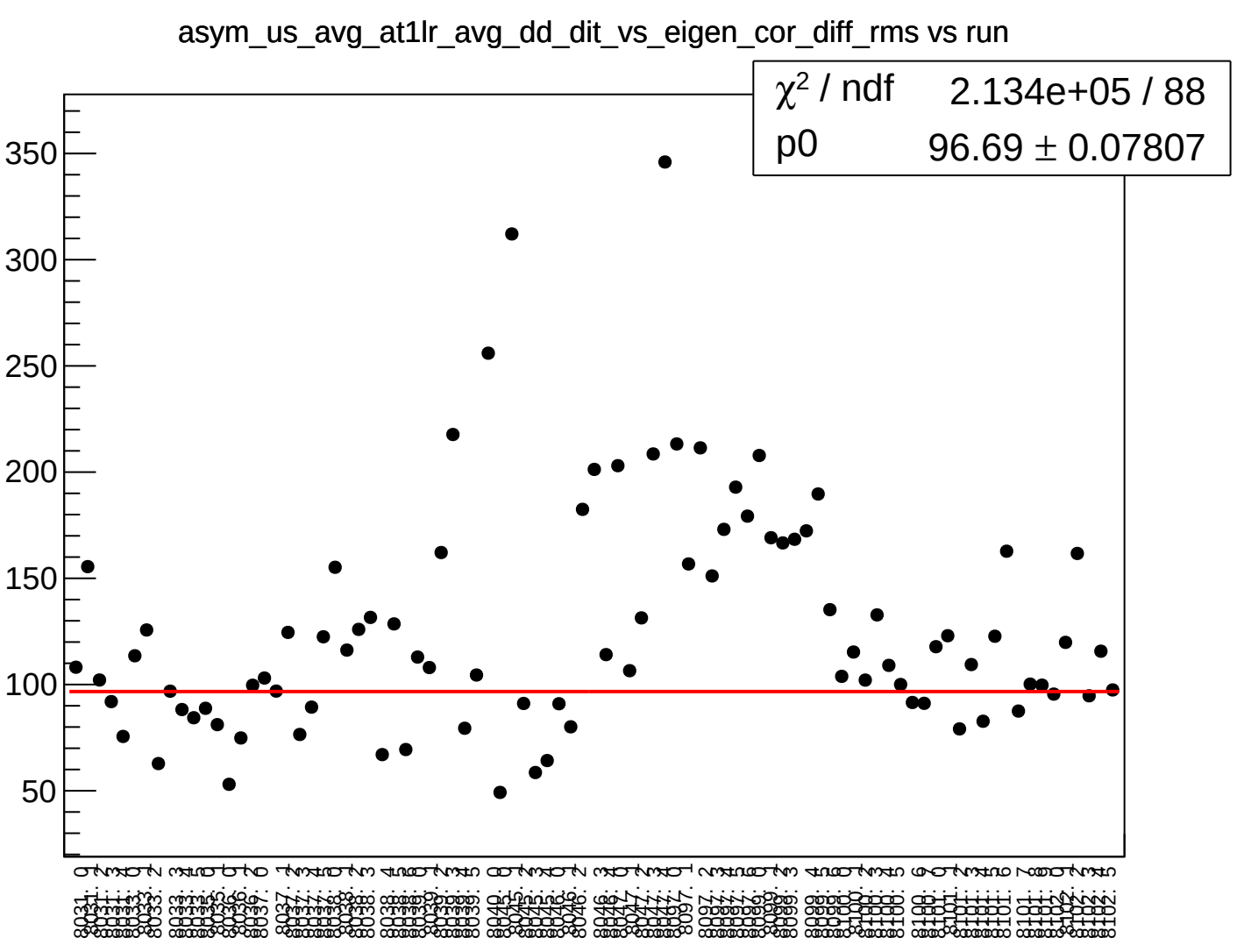

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.227e+06 / 88
p0 4.878e−11 ± 6.763e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

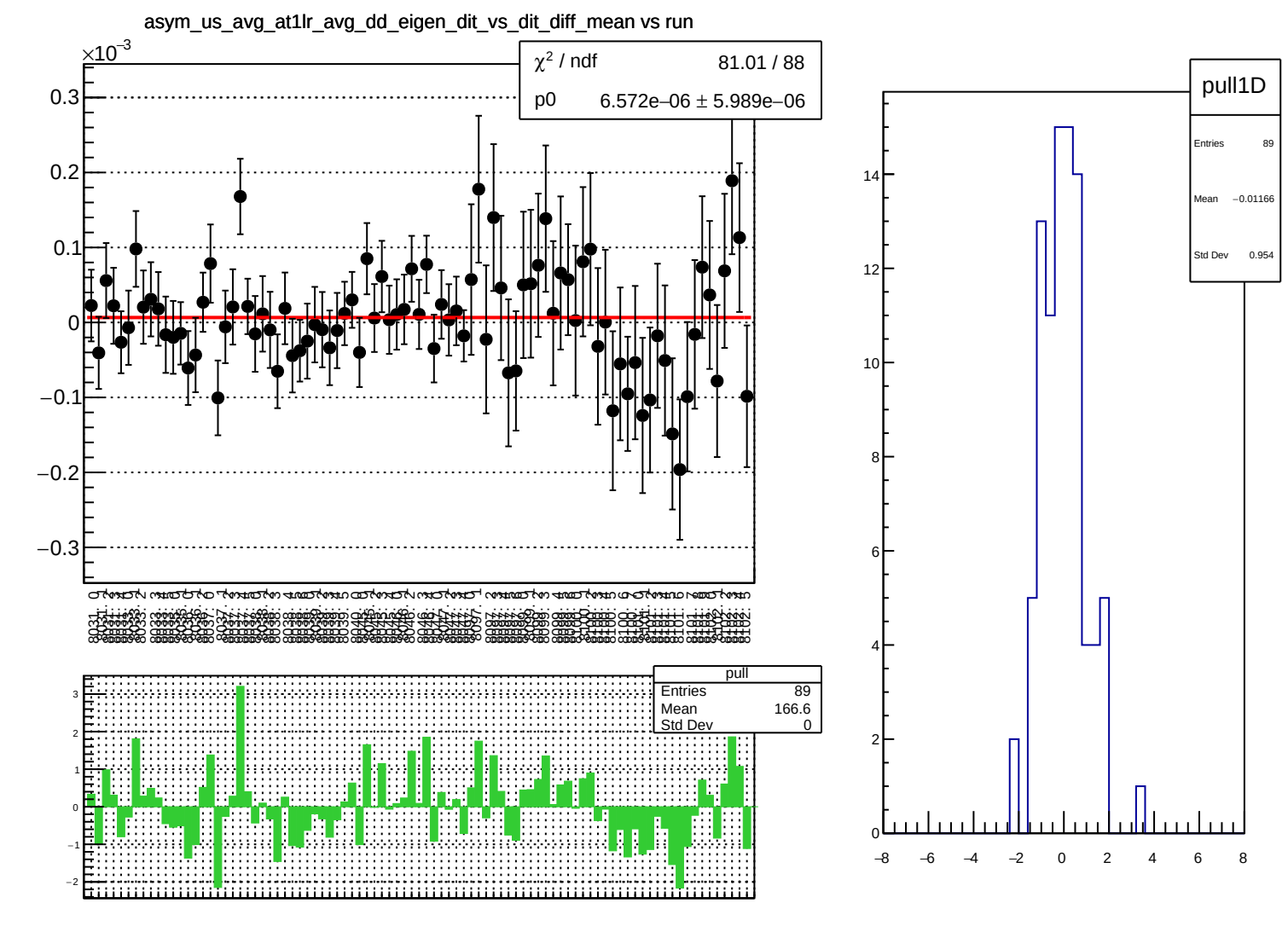

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 101.8 / 88
p0 −0.1457 ± 0.1104
pull
Entries 89
Mean −7475
Std Dev 0

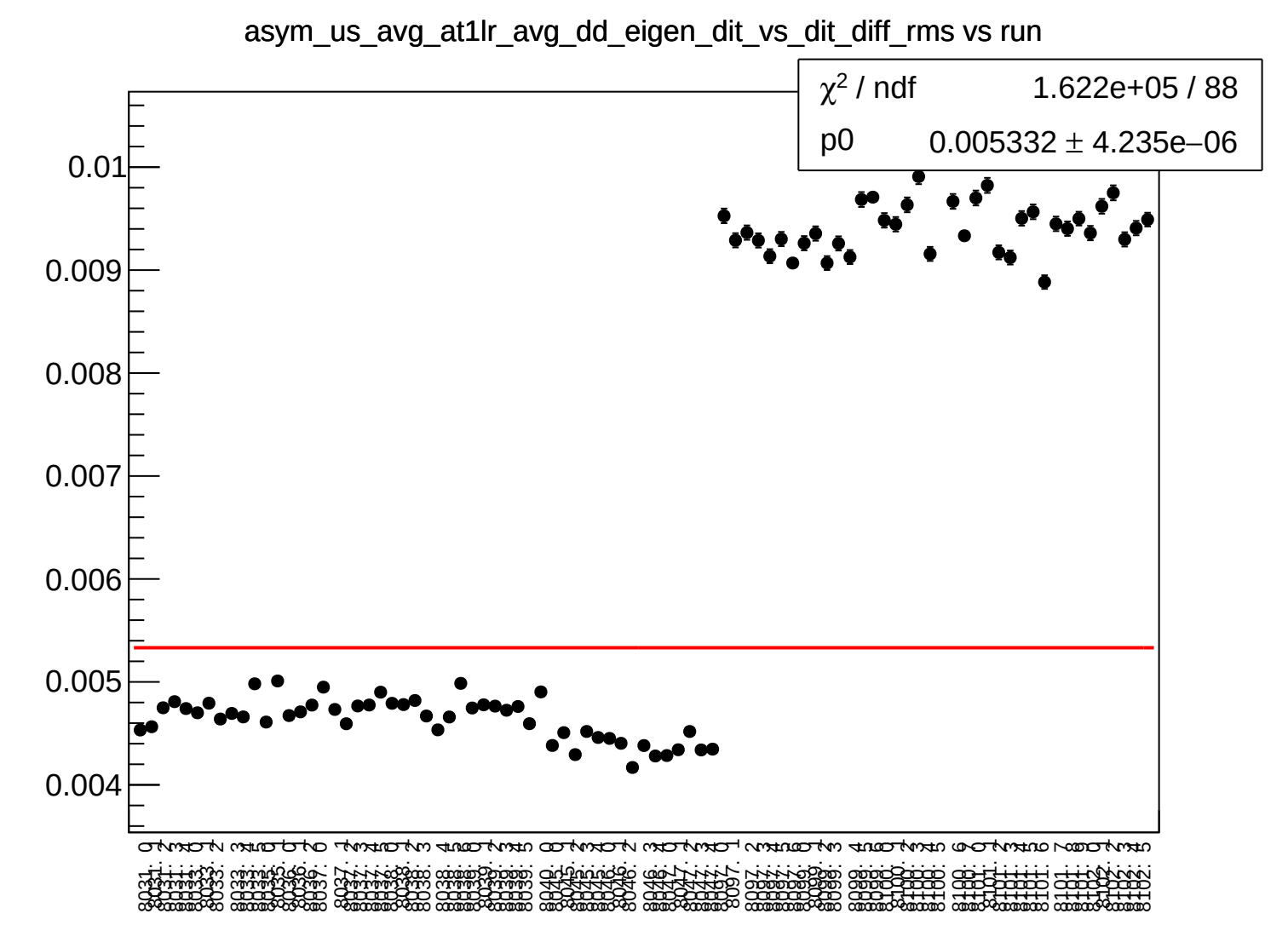

pull1D
Entries 89
Mean 0.0005093
Std Dev 1.069

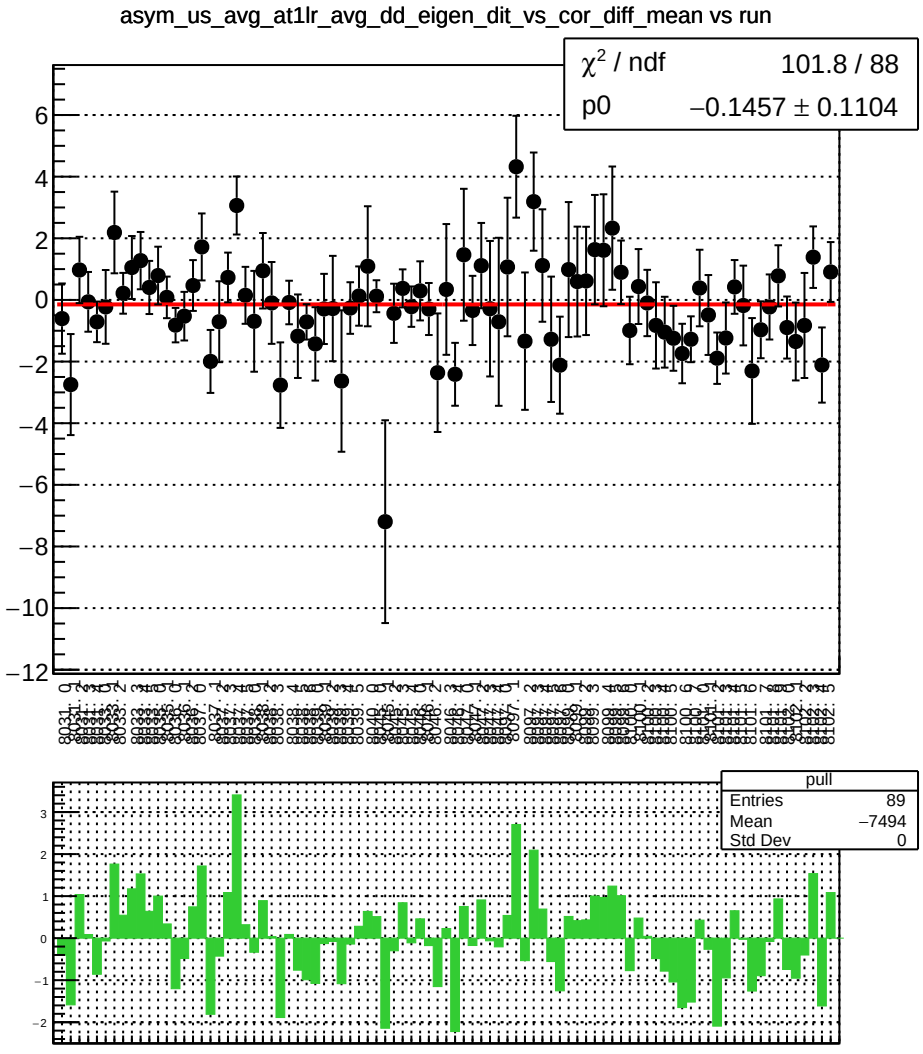

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.134e+05 / 88
p0 96.69 ± 0.07807
350
300
250
200
150
100
50

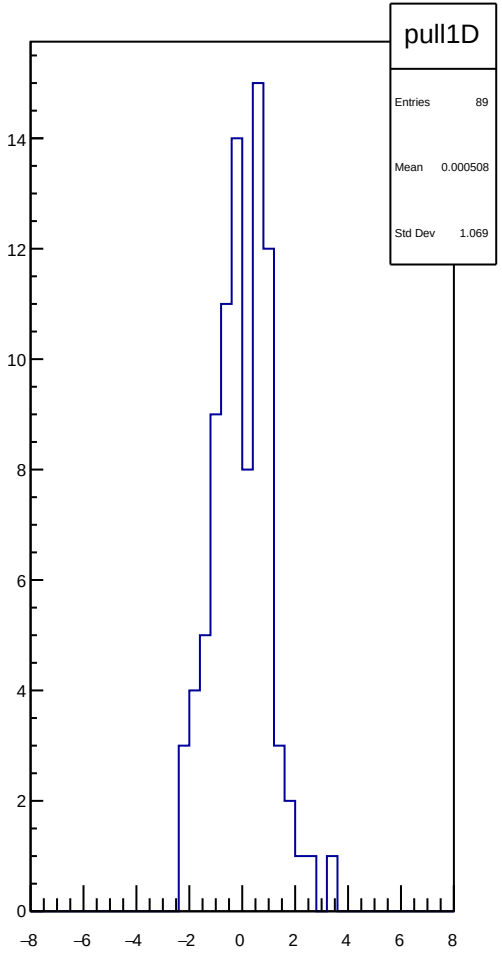

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.8 / 88
p0 −0.1457 ± 0.1104
pull
Entries 89
Mean −7475
Std Dev 0
pull1D
Entries 89
Mean 0.0005093
Std Dev 1.069

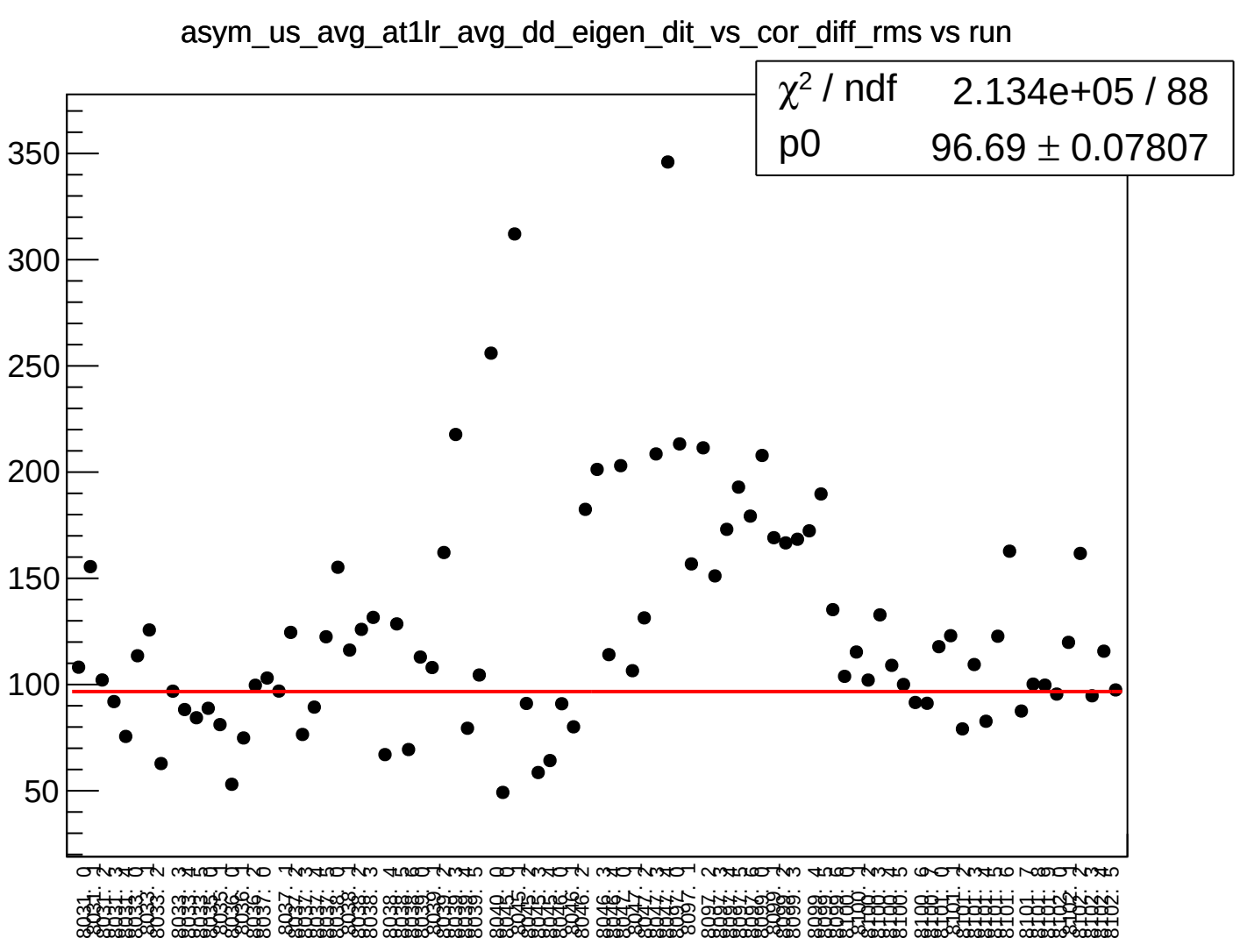

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.134e+05 / 88
p0 96.69 ± 0.07807
350
300
250
200
150
100
50

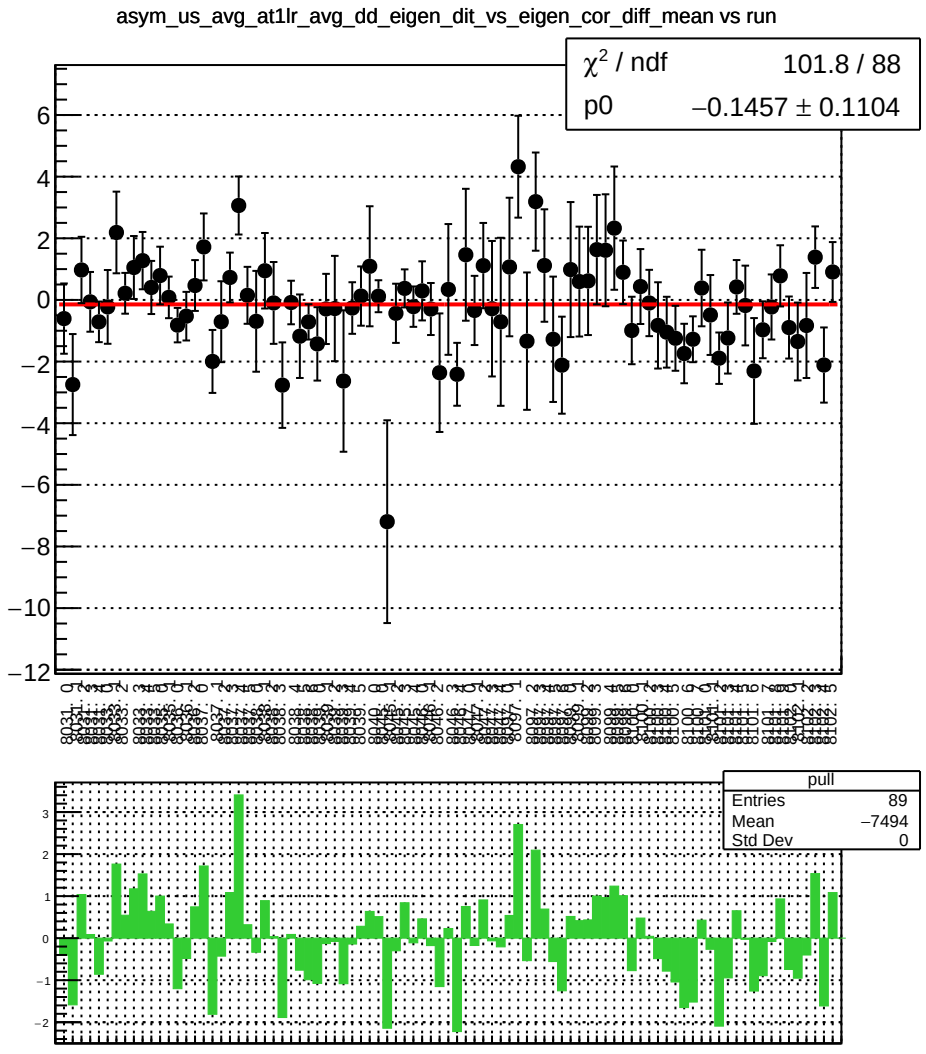

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.01 / 88
p0 6.572e−06 ± 5.989e−06
pull
Entries 89
Mean 166.6
Std Dev 0
pull1D
Entries 89
Mean −0.01166
Std Dev 0.954

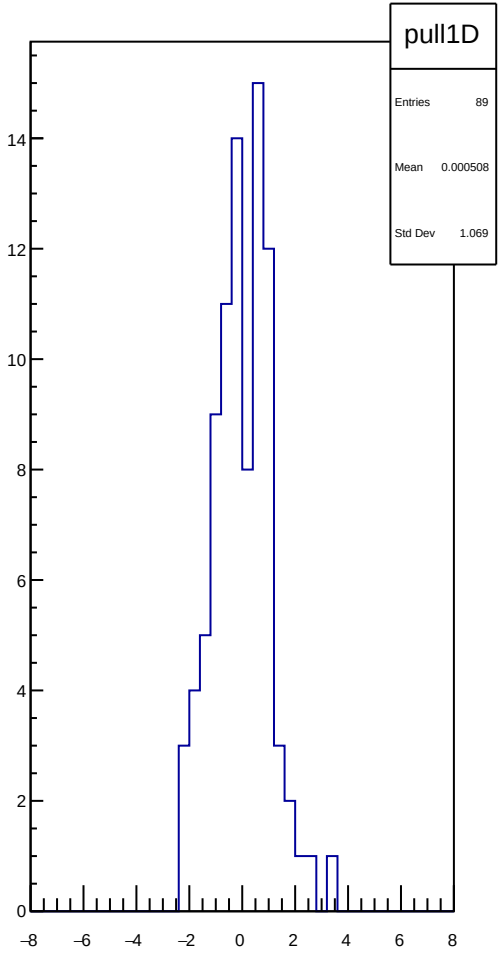

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.622e+05 / 88
p0 0.005332 ± 4.235e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004

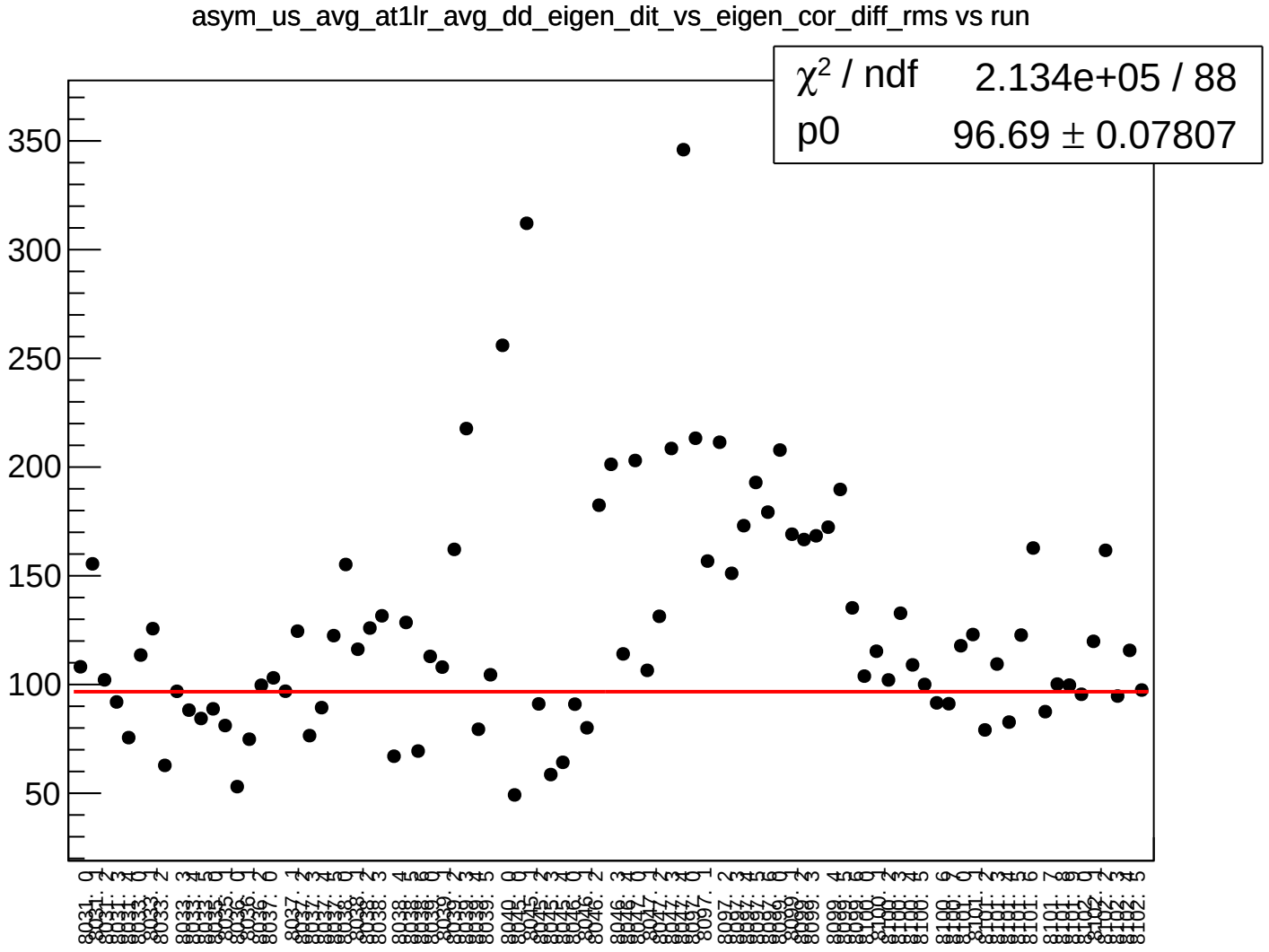

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101.8 / 88
p0 −0.1457 ± 0.1104
pull
Entries 89
Mean −7494
Std Dev 0

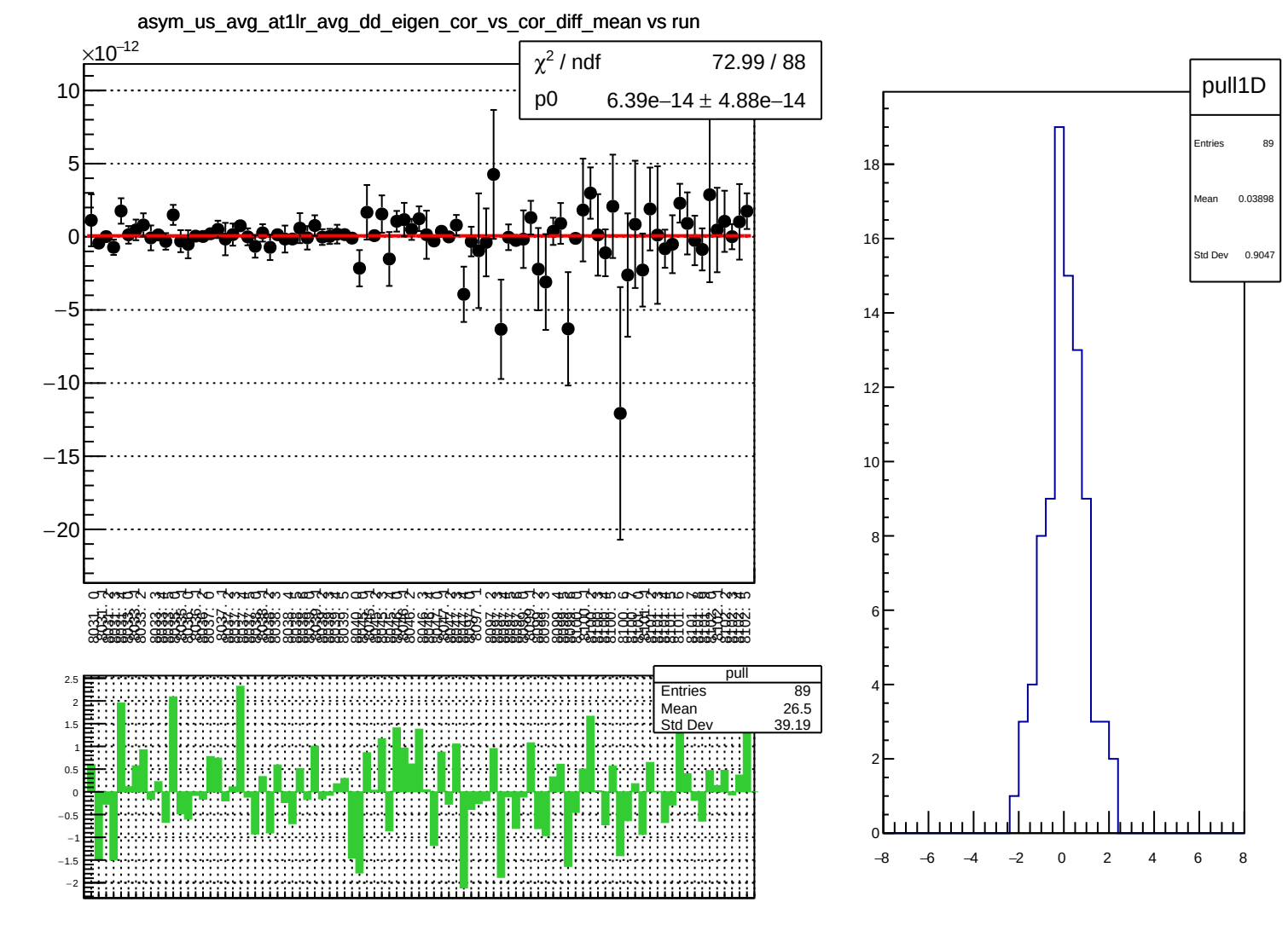

pull1D
Entries 89
Mean 0.000508
Std Dev 1.069

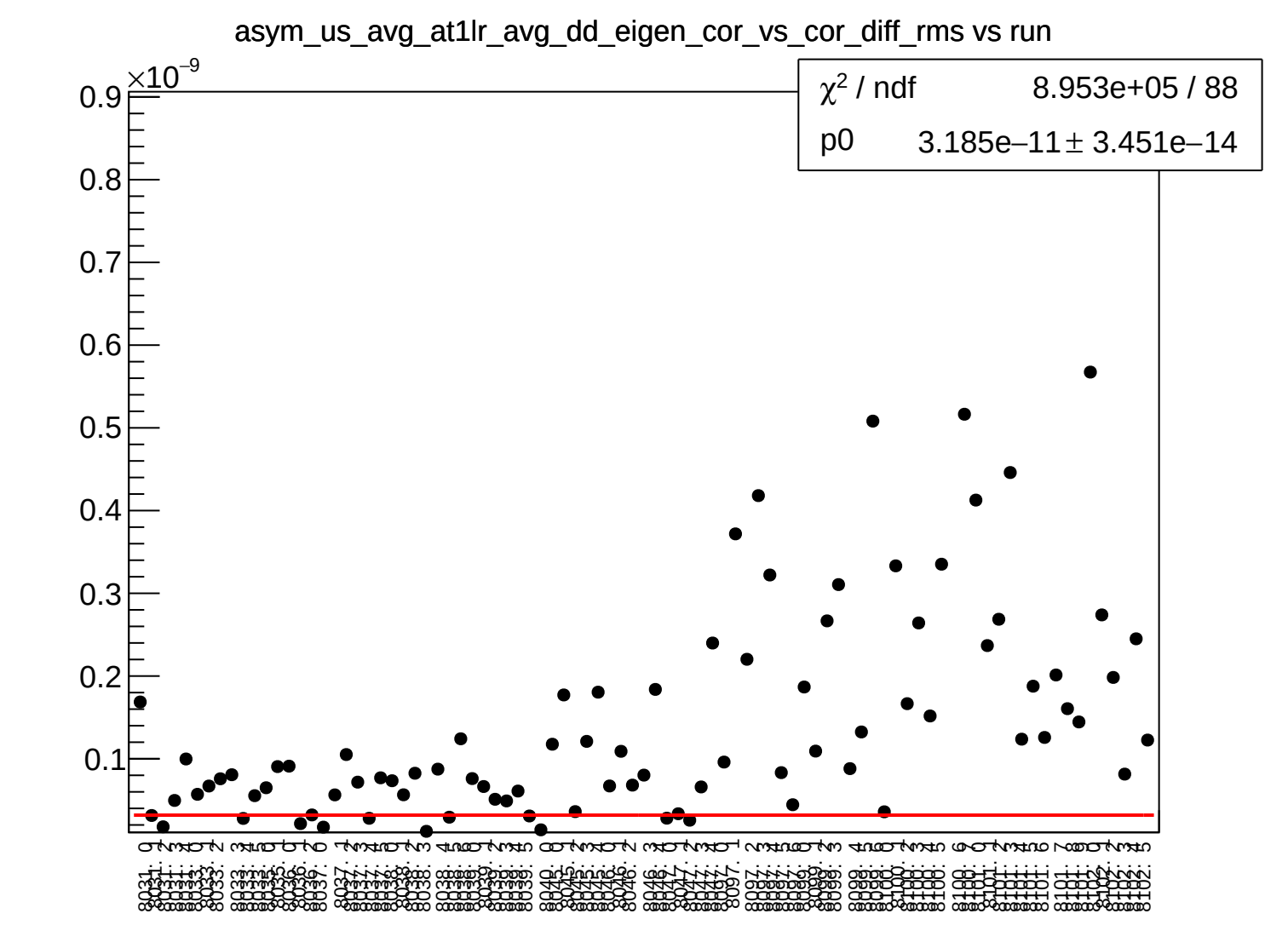

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.134e+05 / 88
p0 96.69 ± 0.07807
350
300
250
200
150
100
50

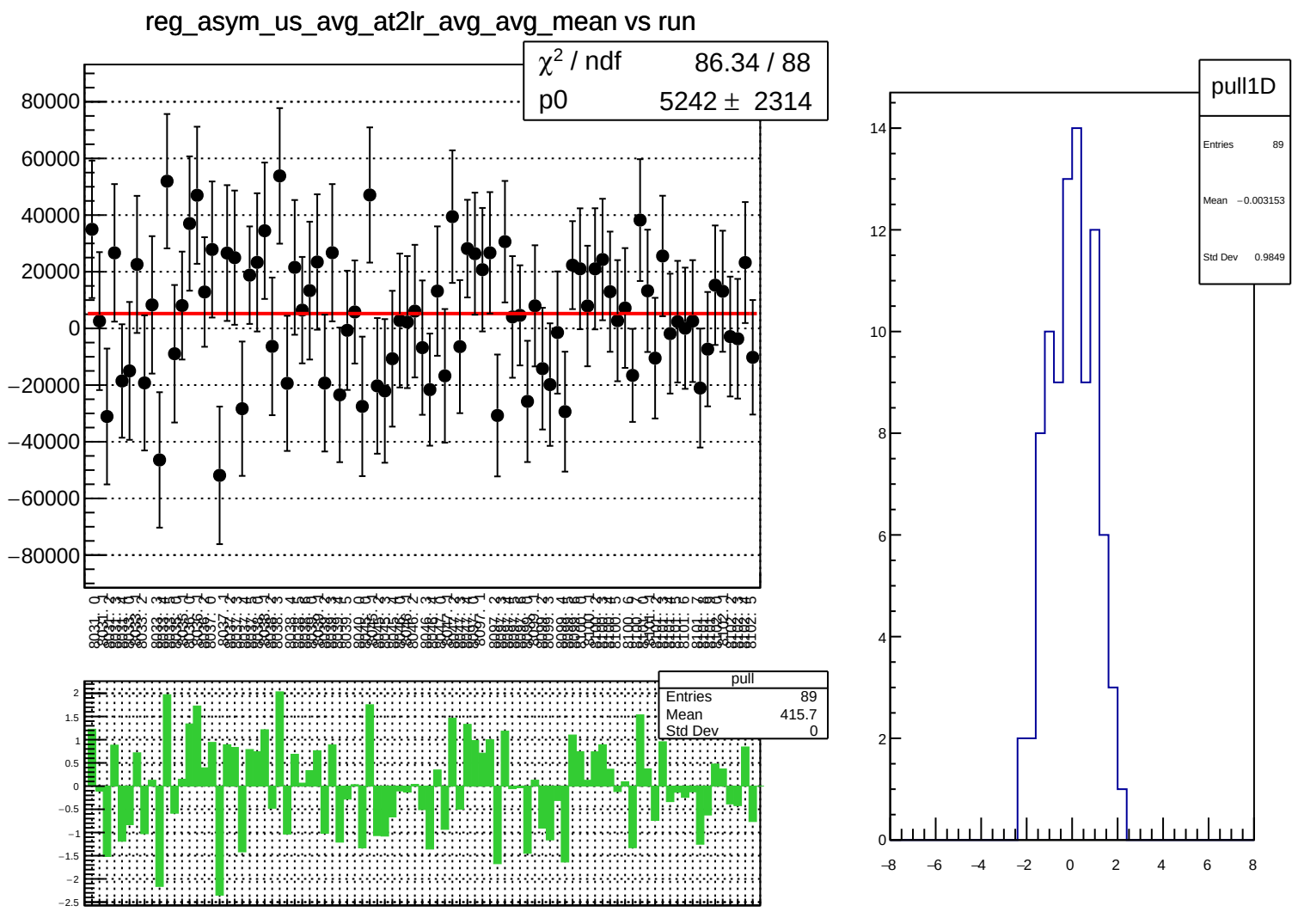

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.8 / 88
p0 −0.1457 ± 0.1104
pull
Entries 89
Mean −7494
Std Dev 0

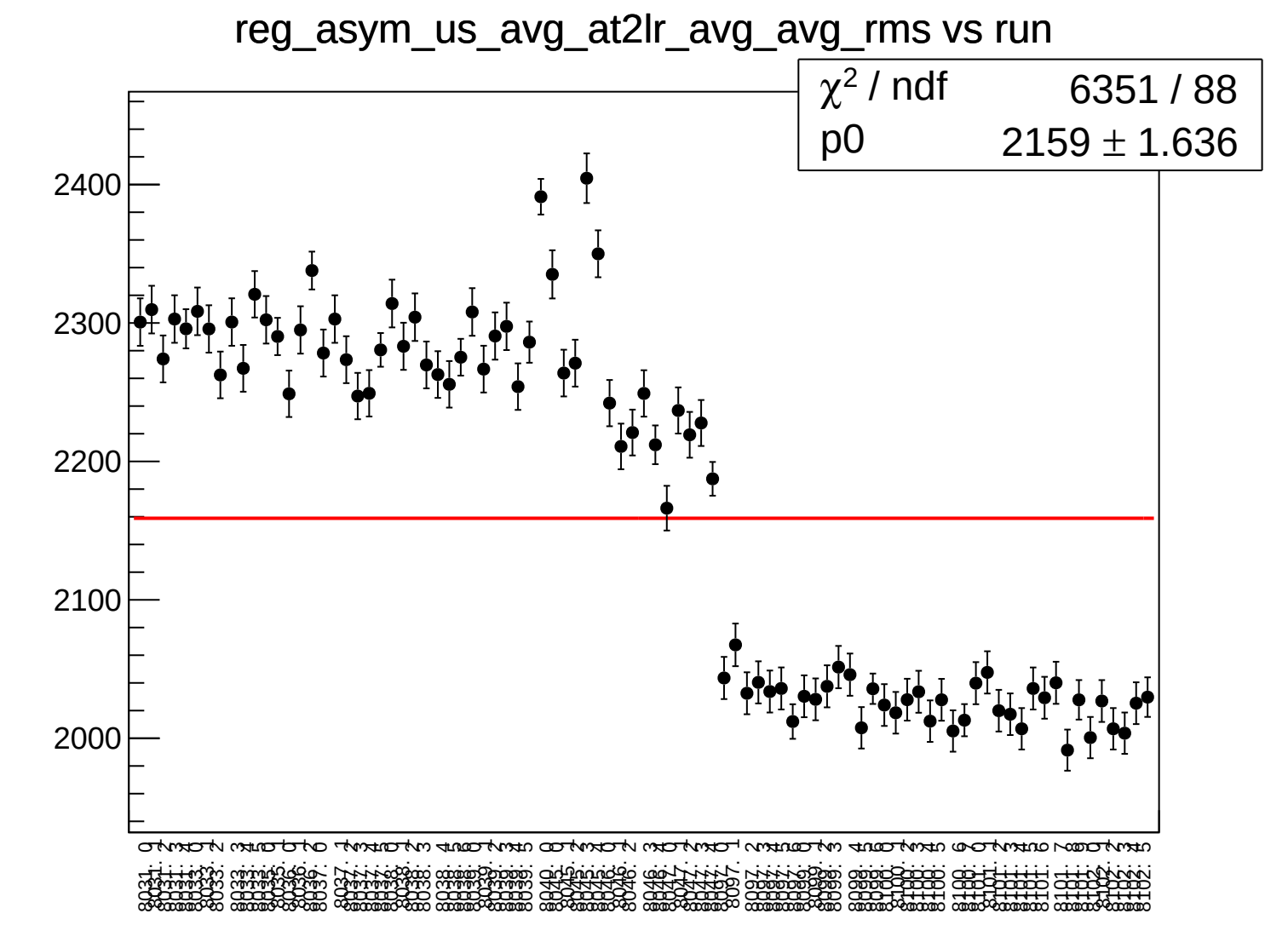

pull1D
Entries 89
Mean 0.000508
Std Dev 1.069

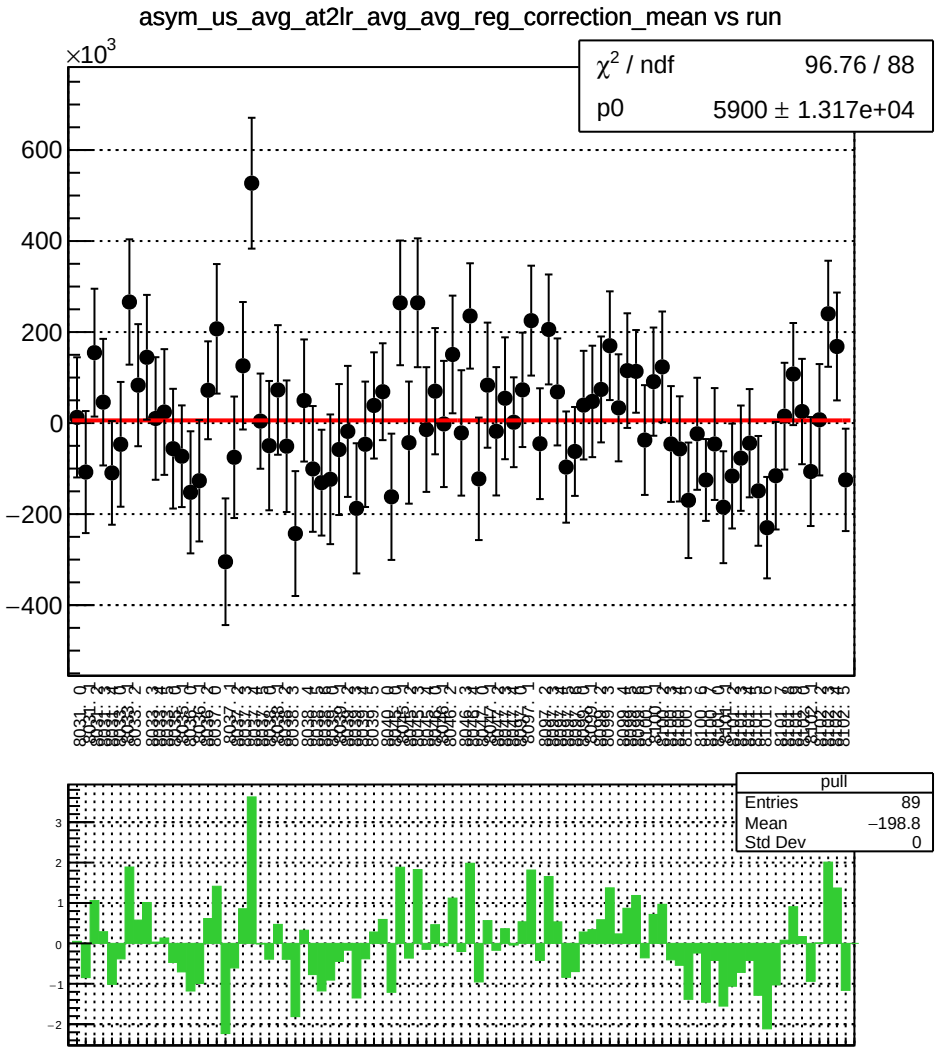

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.134e+05 / 88
p0 96.69 ± 0.07807
350
300
250
200
150
100
50

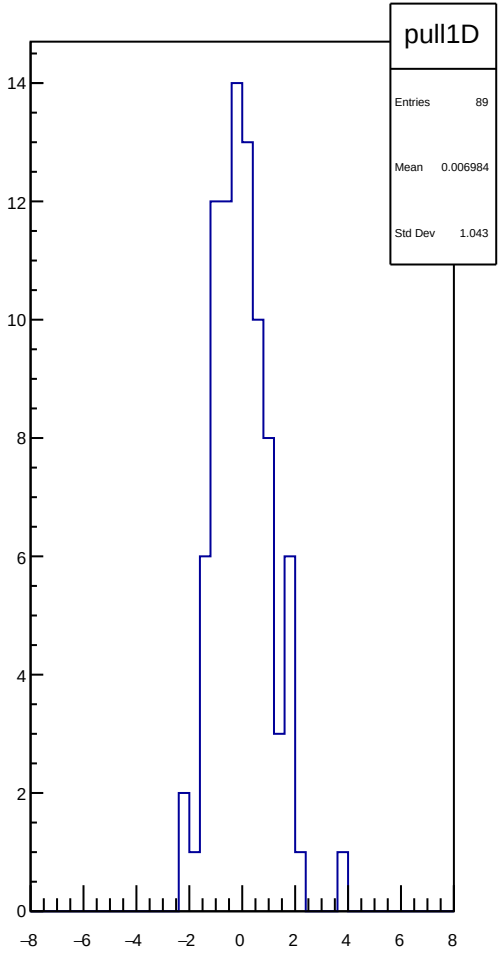

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 72.99 / 88
p0 6.39e−14 ± 4.88e−14
pull
Entries 89
Mean 26.5
Std Dev 39.19
pull1D
Entries 89
Mean 0.03898
Std Dev 0.9047

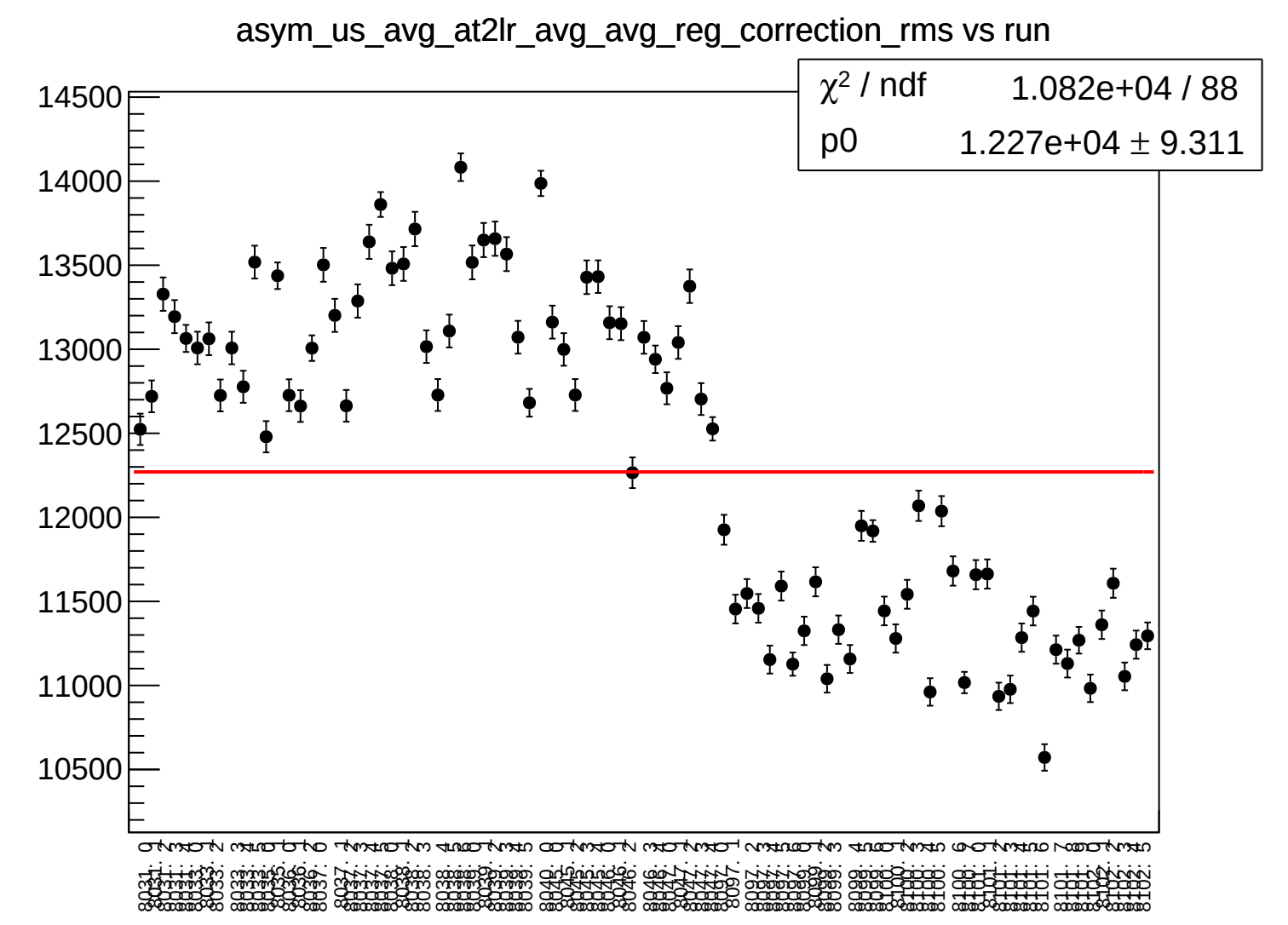

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.953e+05 / 88
p0 3.185e−11 ± 3.451e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

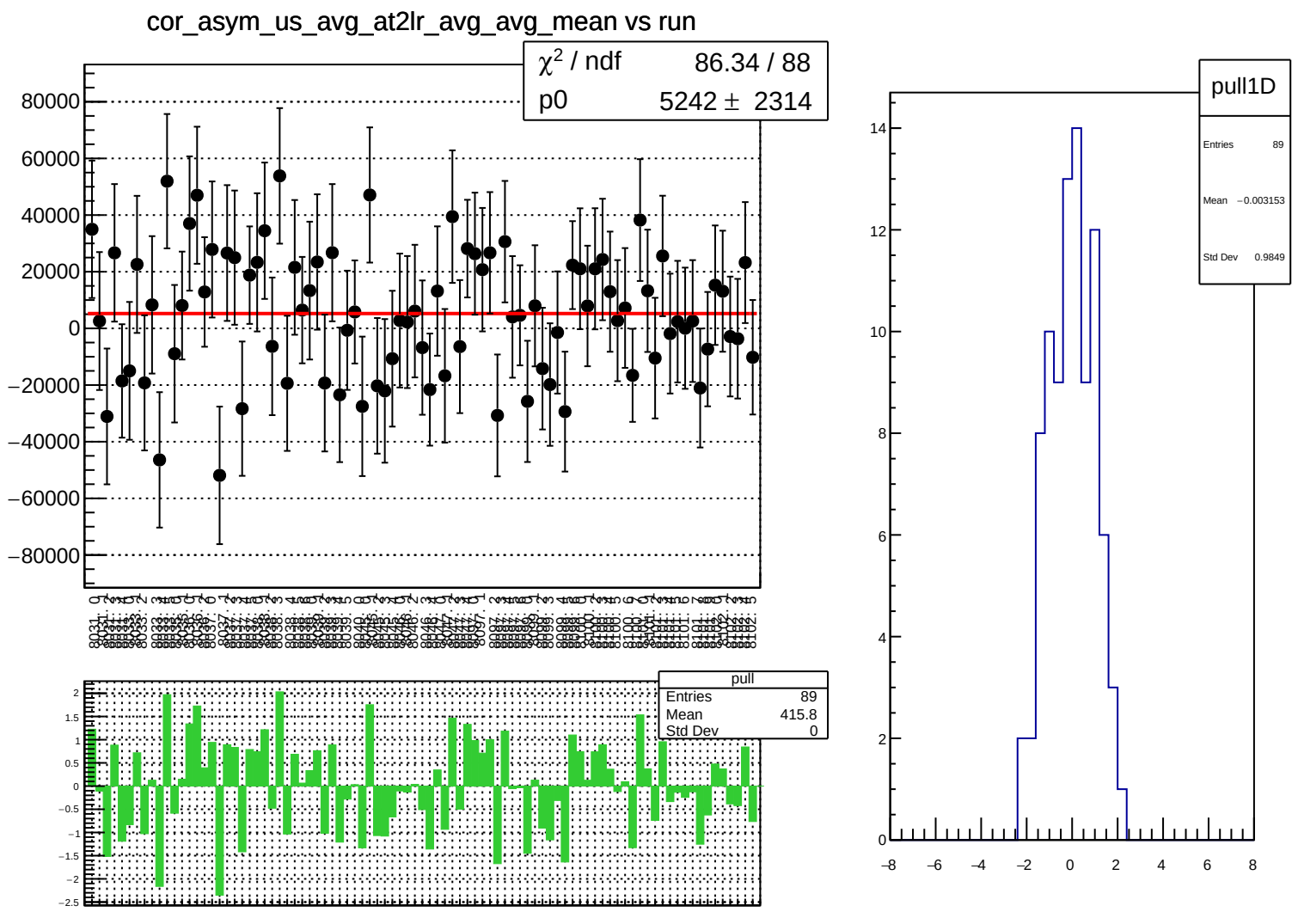

reg_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 86.34 / 88
p0 5242 ± 2314
pull
Entries 89
Mean 415.7
Std Dev 0
pull1D
Entries 89
Mean −0.003153
Std Dev 0.9849

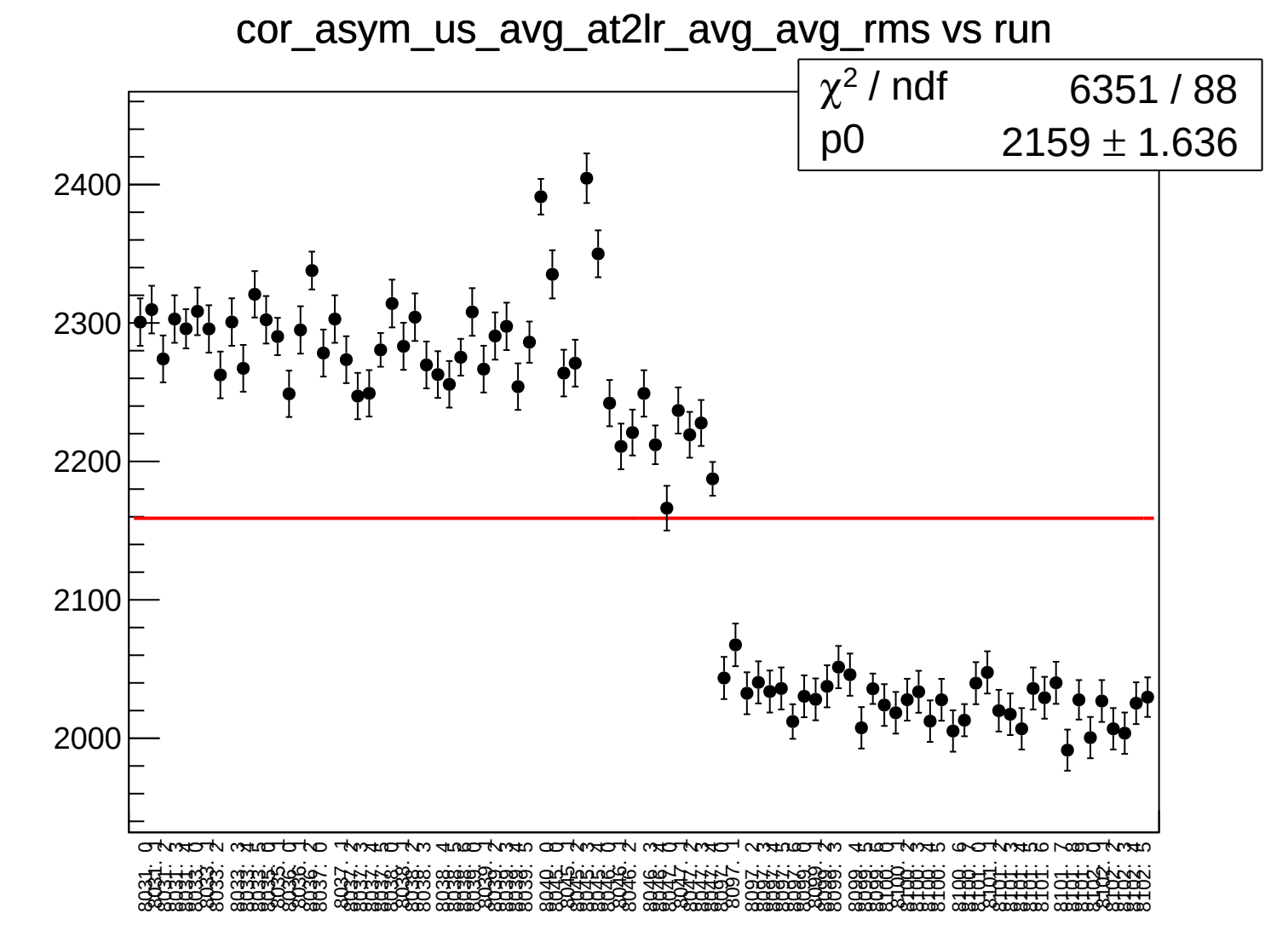

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 6351 / 88
p0 2159 ± 1.636
2400
2300
2200
2100
2000

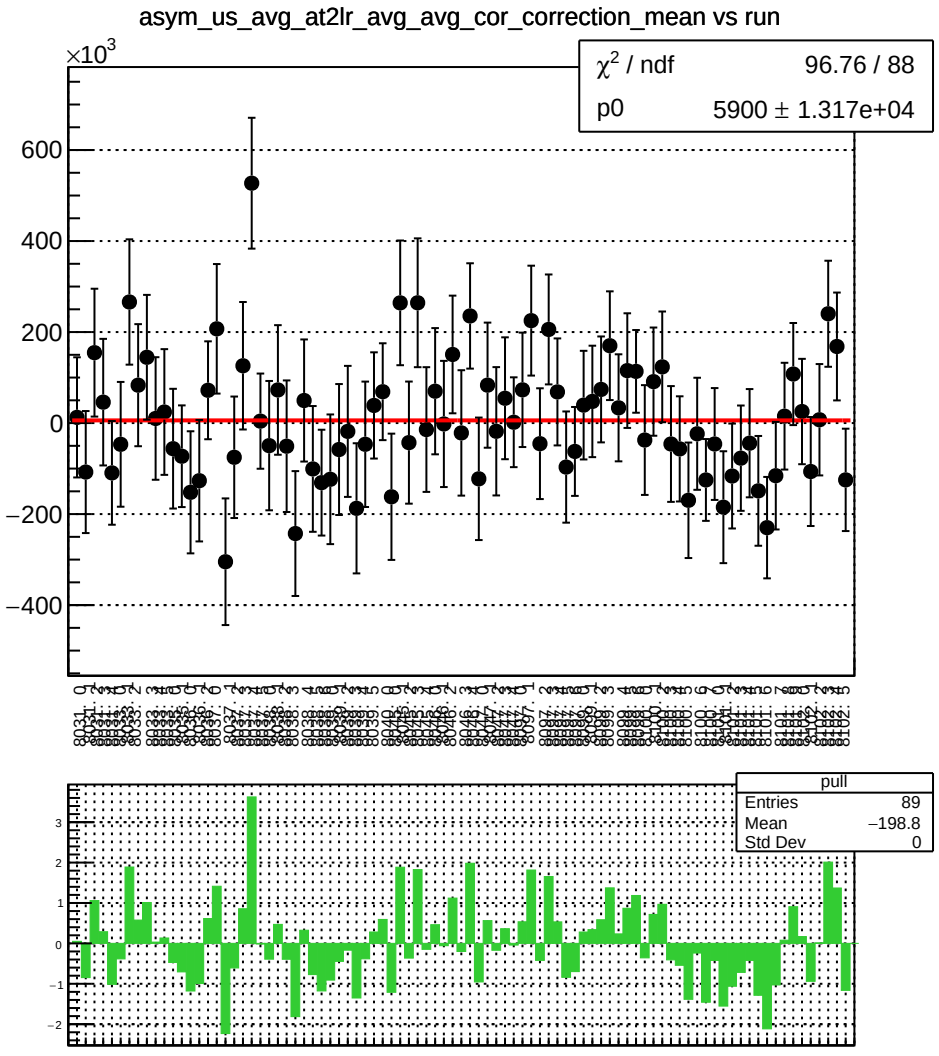

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
×10^3
600
400
200
0
−200
−400
χ² / ndf 96.76 / 88
p0 5900 ± 1.317e+04
pull
Entries 89
Mean −198.8
Std Dev 0
3
2
1
0
−1
−2

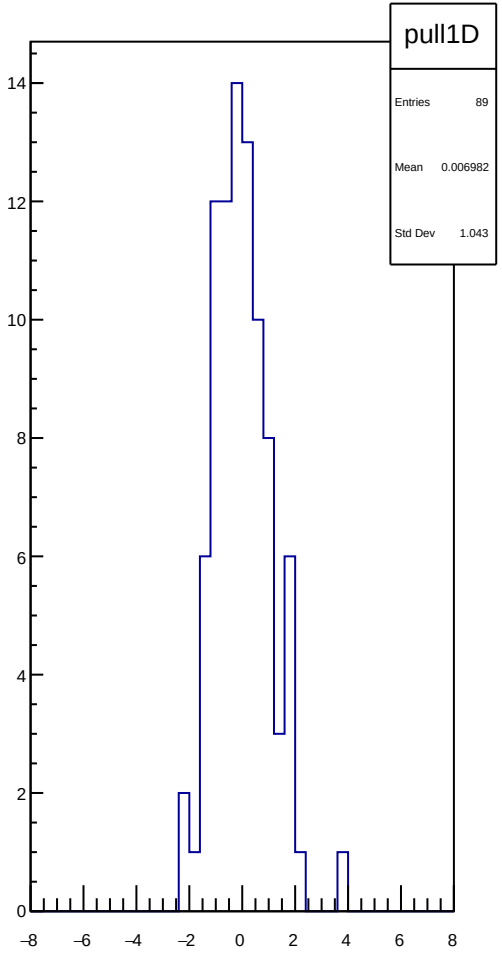

pull1D
Entries 89
Mean 0.006984
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

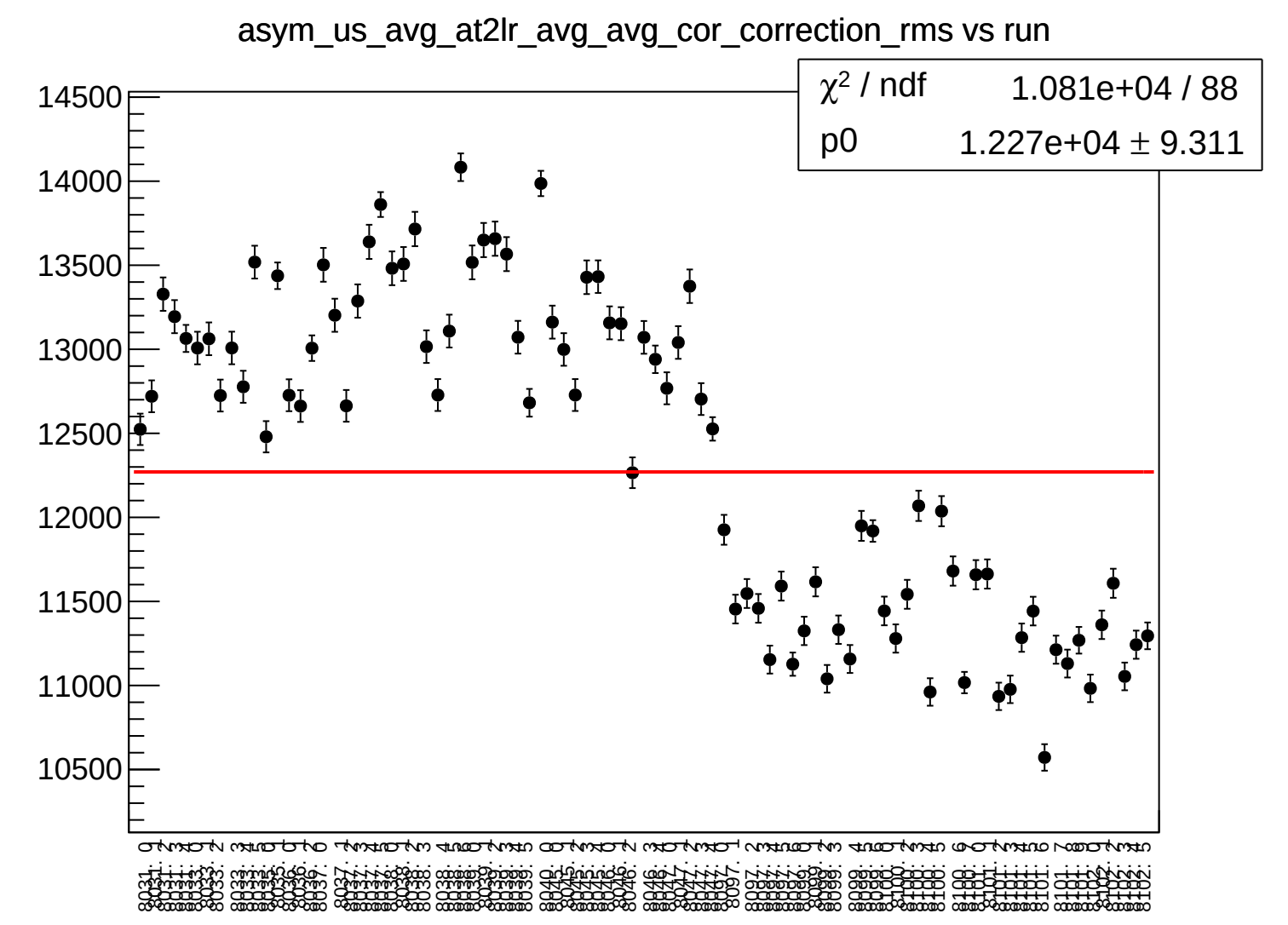

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.082e+04 / 88
p0 1.227e+04 ± 9.311
14500
14000
13500
13000
12500
12000
11500
11000
10500

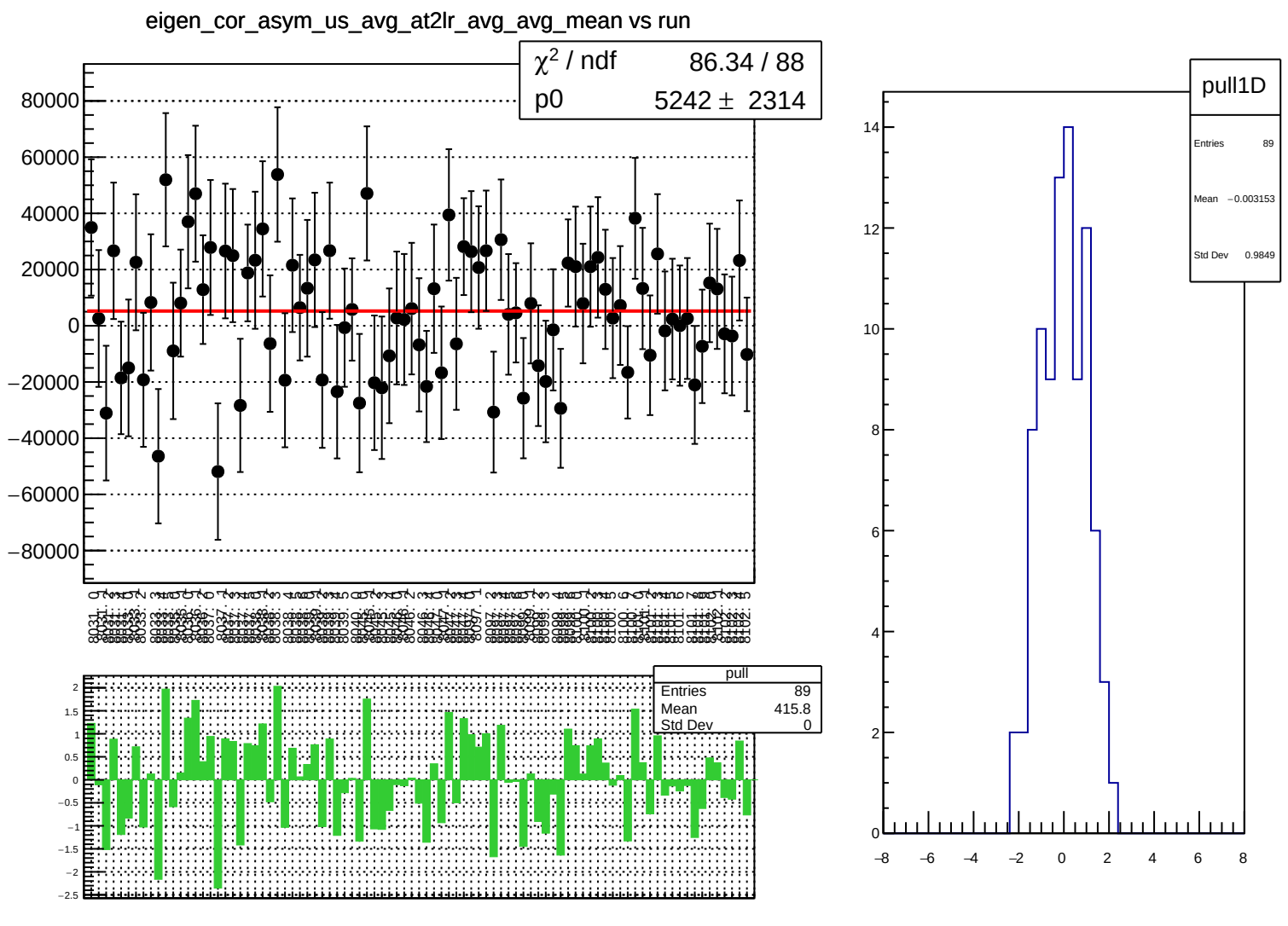

cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 86.34 / 88
p0 5242 ± 2314
pull
Entries 89
Mean 415.8
Std Dev 0
pull1D
Entries 89
Mean −0.003153
Std Dev 0.9849

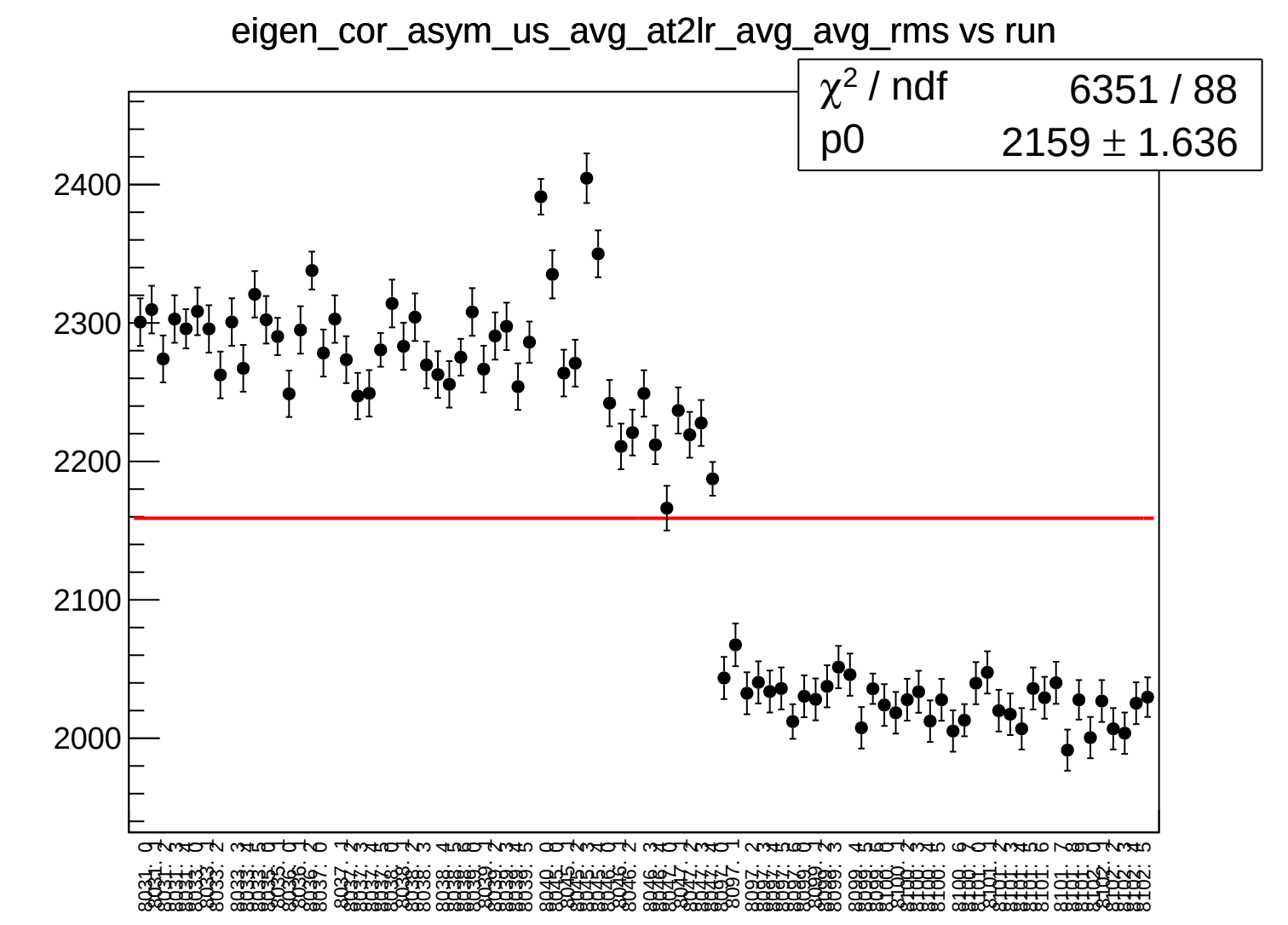

cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 6351 / 88
p0 2159 ± 1.636
2400
2300
2200
2100
2000

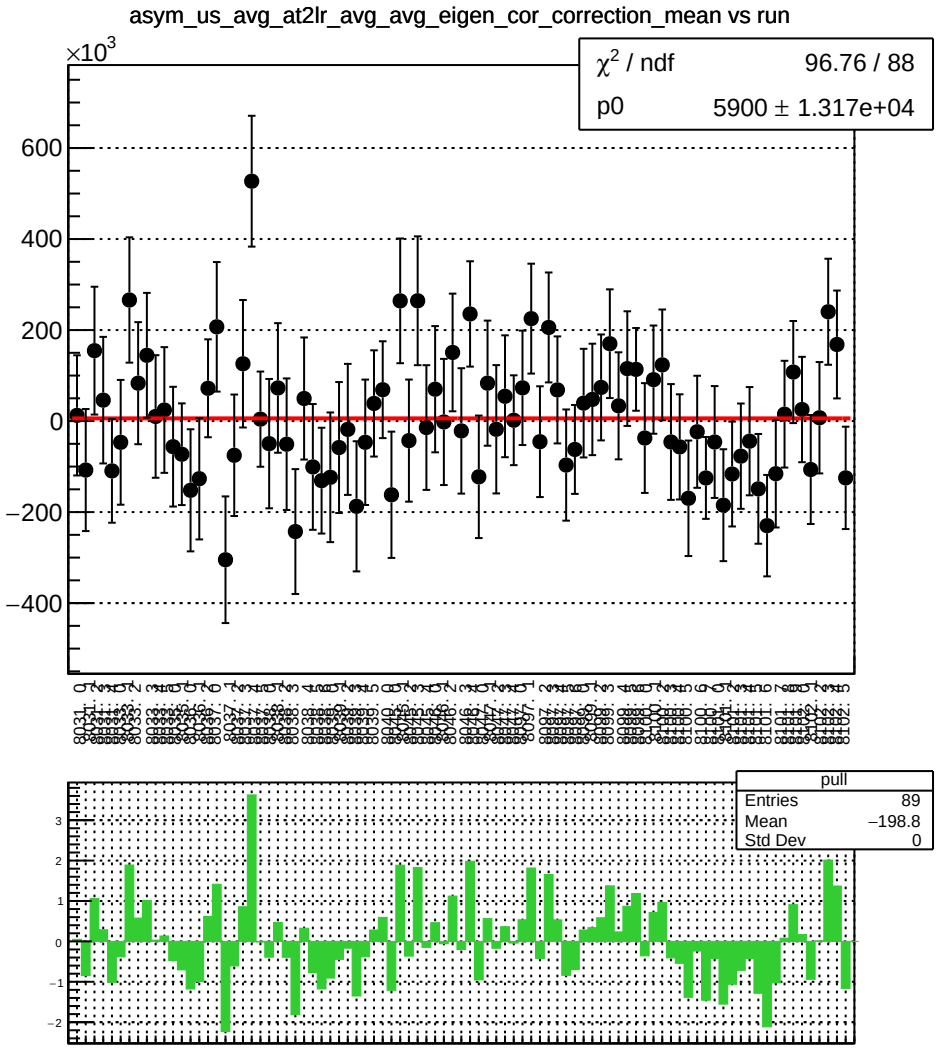

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 96.76 / 88
p0 5900 ± 1.317e+04
600
400
200
0
−200
−400
pull
Entries 89
Mean −198.8
Std Dev 0
3
2
1
0
−1
−2

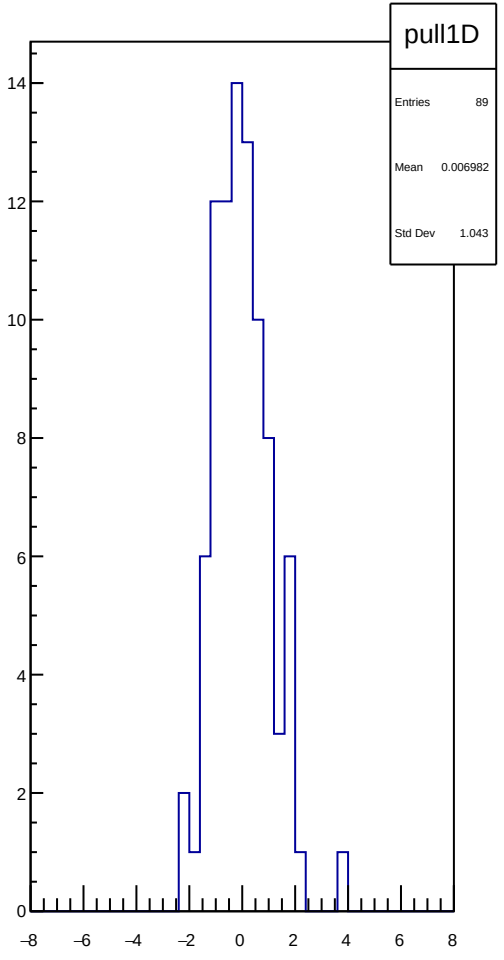

pull1D
Entries 89
Mean 0.006982
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

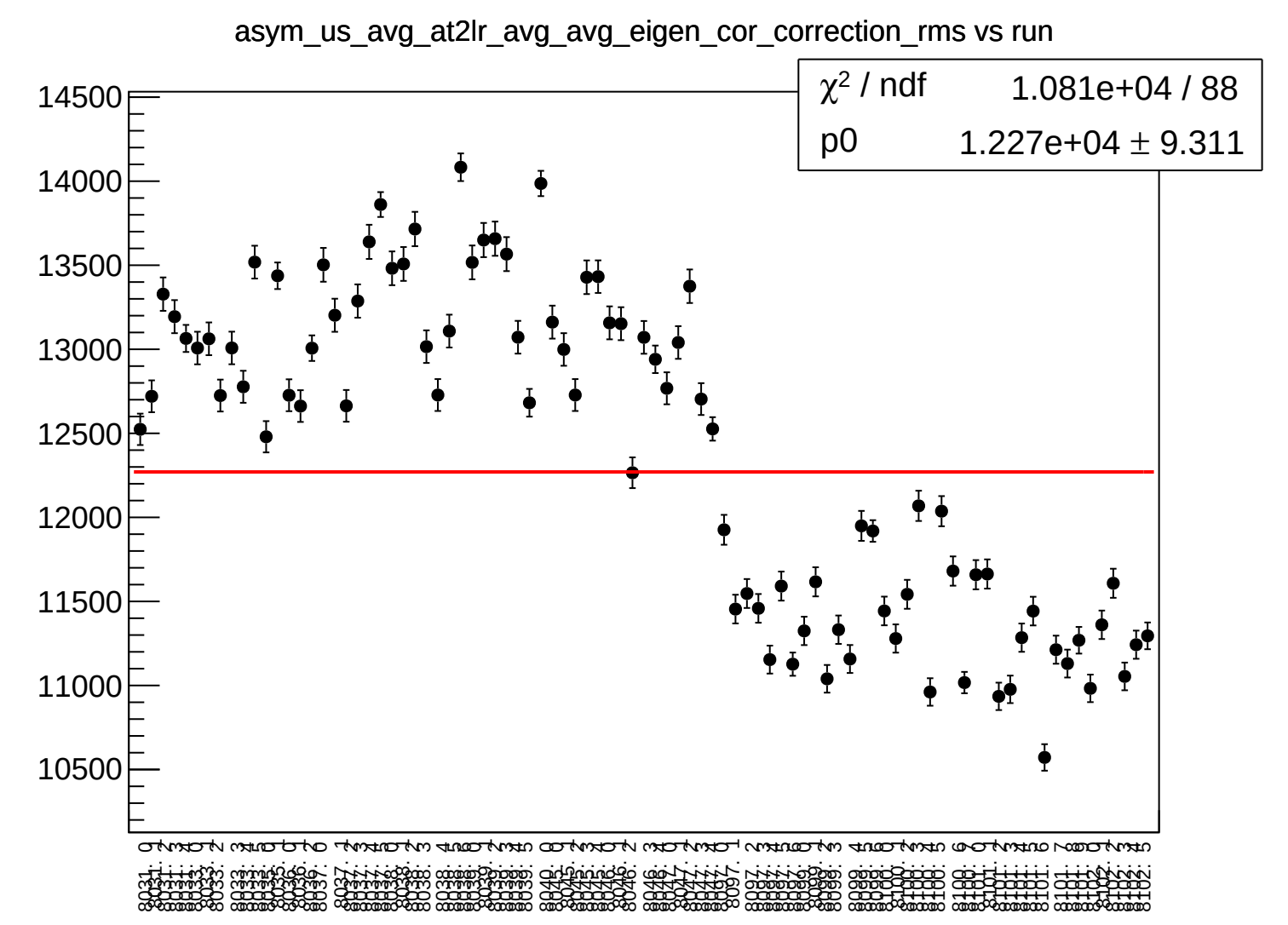

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 1.081e+04 / 88
p0 1.227e+04 ± 9.311
14500
14000
13500
13000
12500
12000
11500
11000
10500

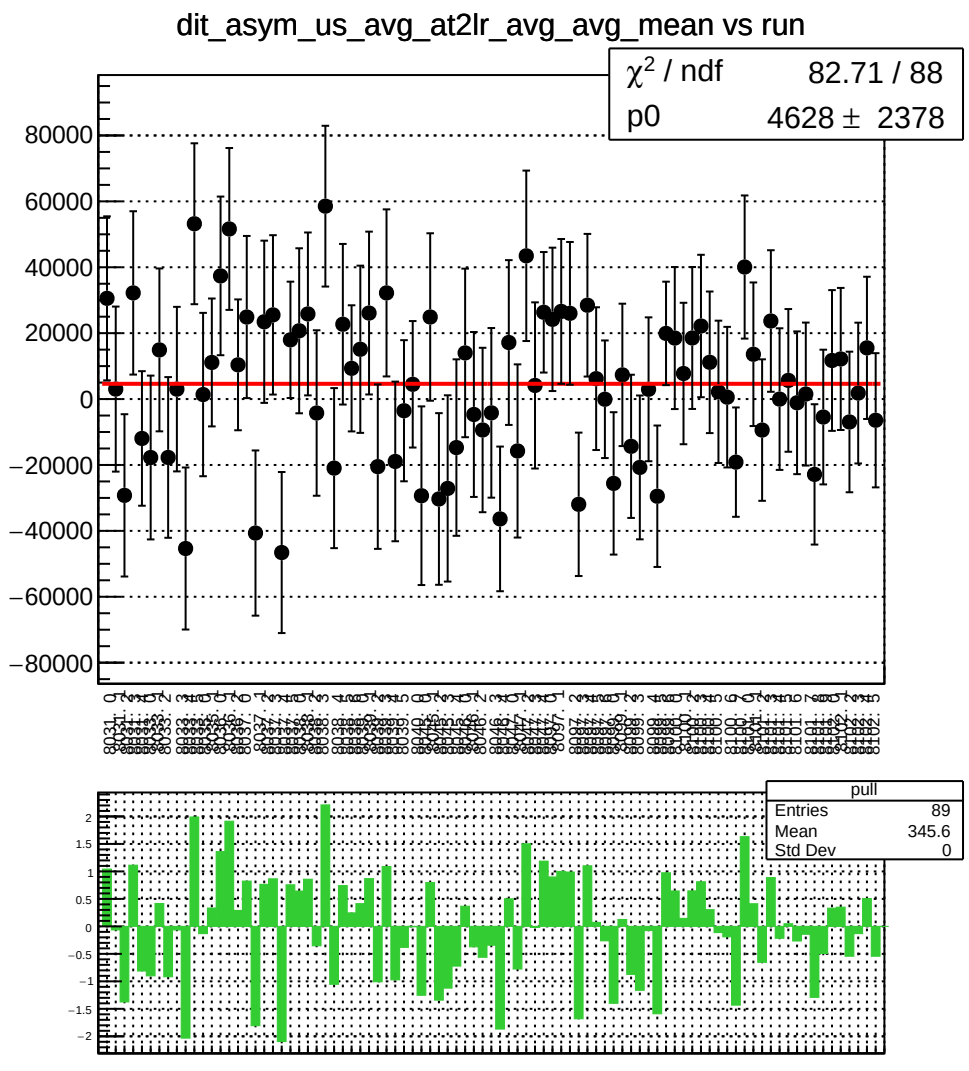

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 86.34 / 88
p0 5242 ± 2314
pull
Entries 89
Mean 415.8
Std Dev 0
pull1D
Entries 89
Mean −0.003153
Std Dev 0.9849

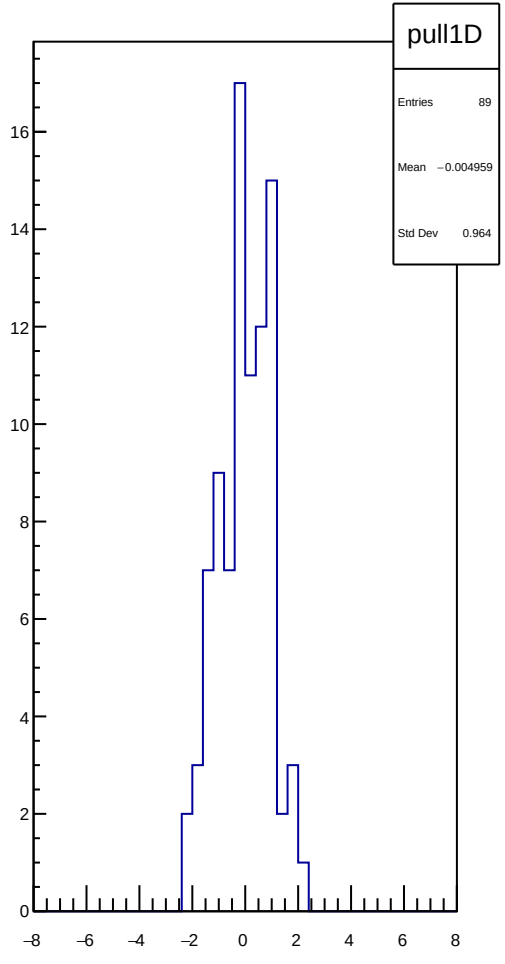

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 6351 / 88
p0 2159 ± 1.636
2400
2300
2200
2100
2000

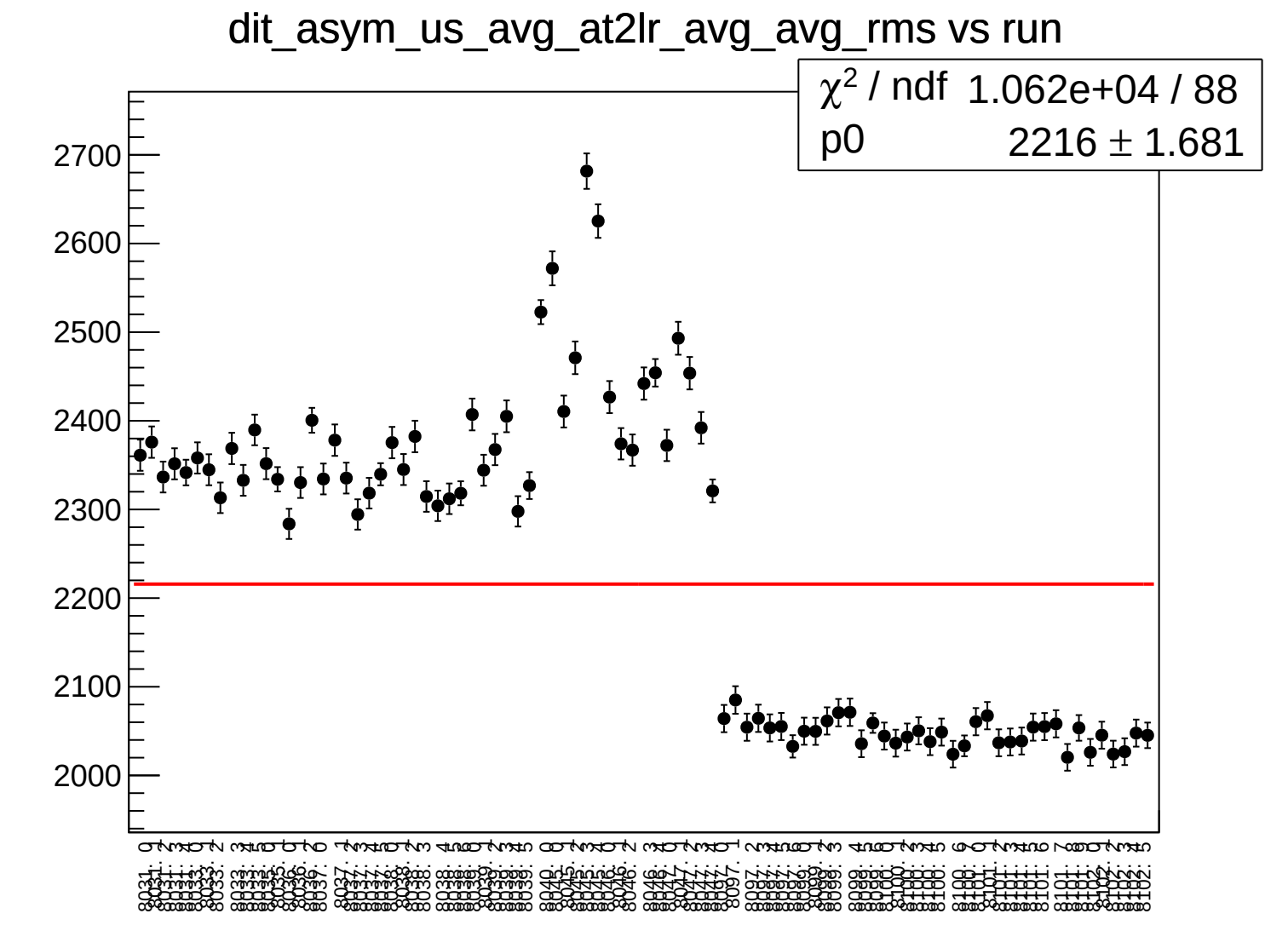

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 96.76 / 88
p0 5900 ± 1.317e+04
600
400
200
0
−200
−400
pull
Entries 89
Mean −198.8
Std Dev 0
3
2
1
0
−1
−2

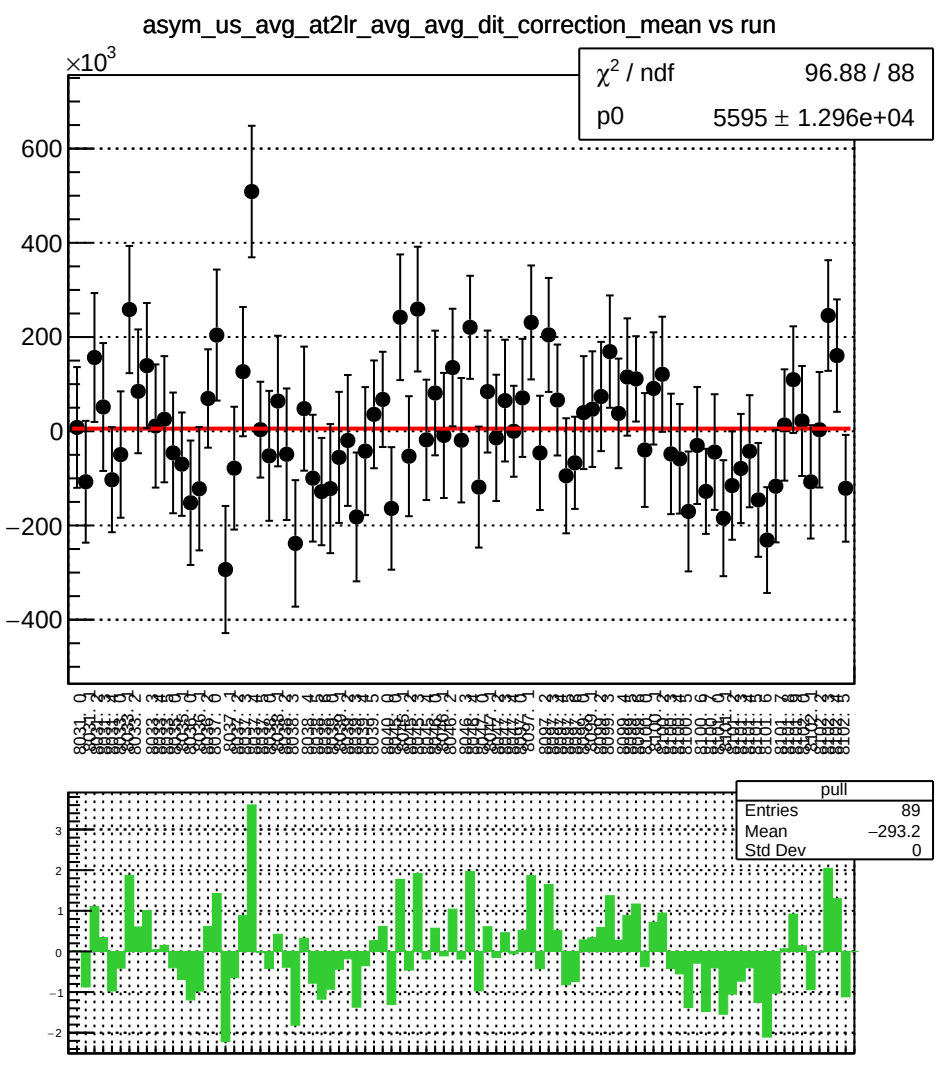

pull1D
Entries 89
Mean 0.006982
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

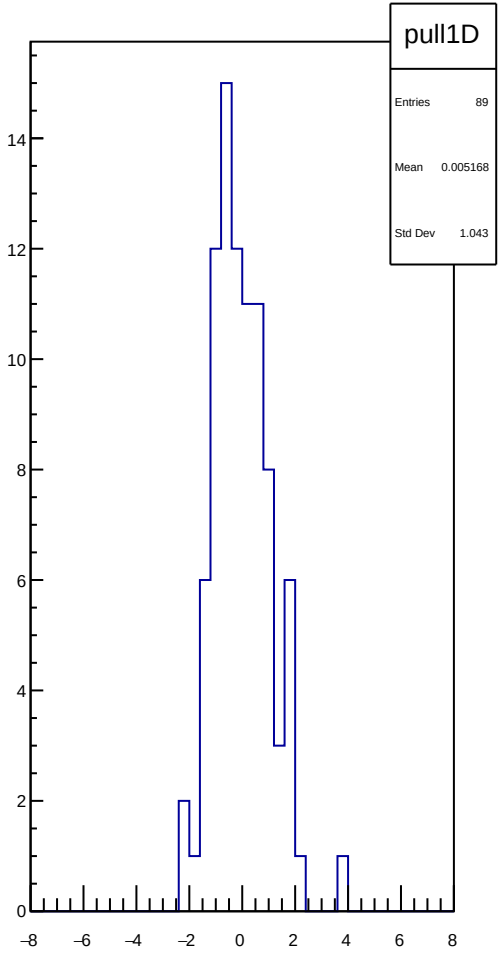

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.081e+04 / 88
p0 1.227e+04 ± 9.311
14500
14000
13500
13000
12500
12000
11500
11000
10500

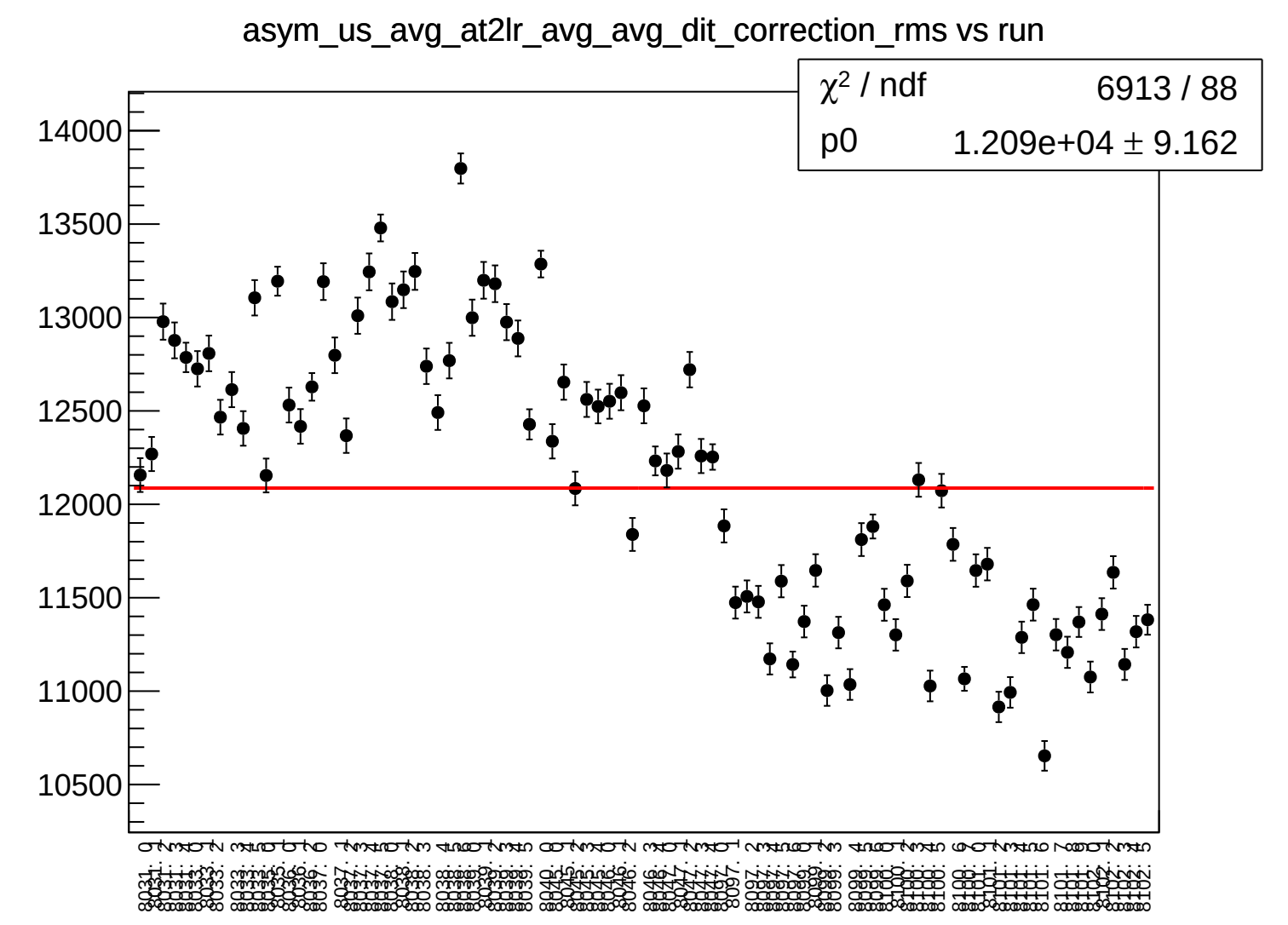

dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 82.71 / 88
p0 4628 ± 2378
pull
Entries 89
Mean 345.6
Std Dev 0

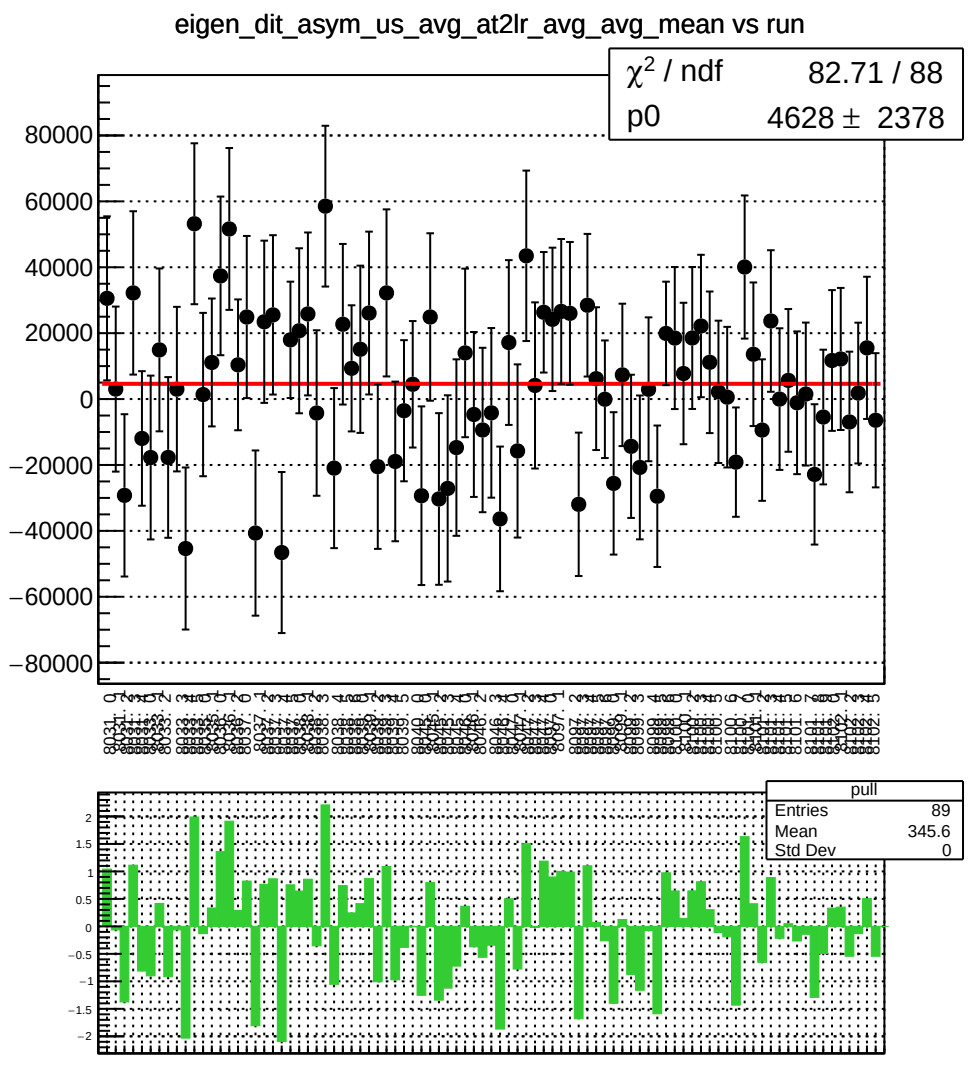

pull1D
Entries 89
Mean −0.004959
Std Dev 0.964

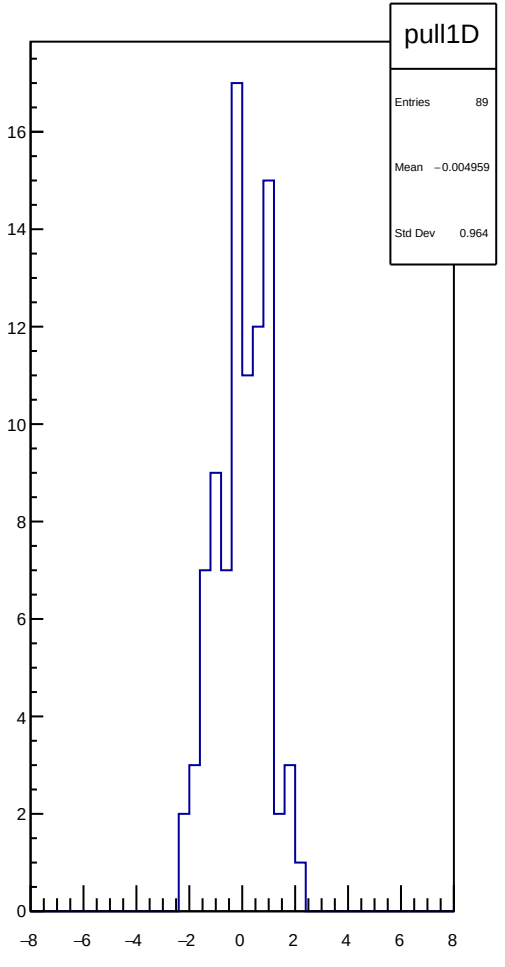

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1.062e+04 / 88
p0 2216 ± 1.681
2700
2600
2500
2400
2300
2200
2100
2000

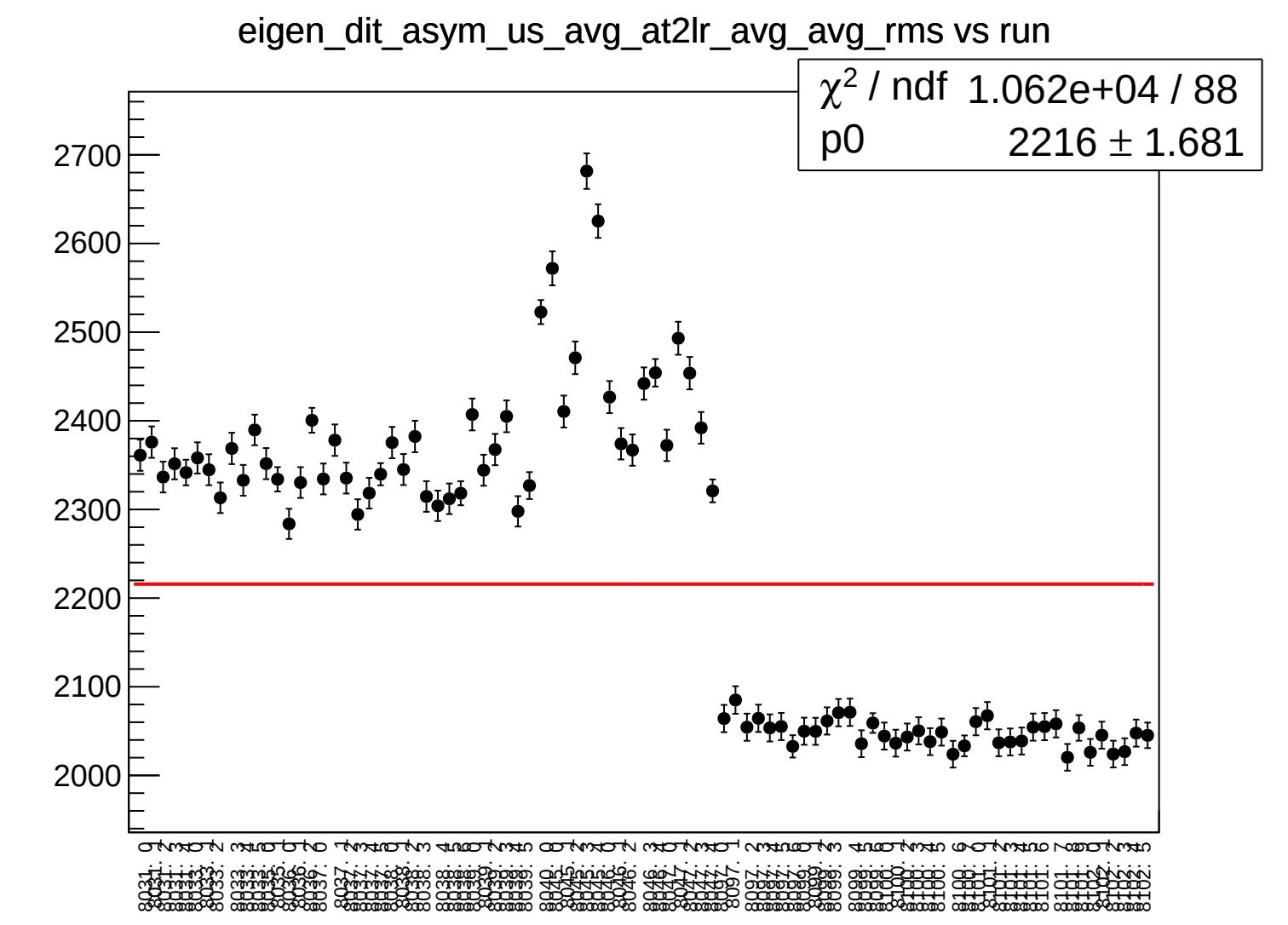

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 96.88 / 88
p0 5595 ± 1.296e+04
600
400
200
0
−200
−400
pull
Entries 89
Mean −293.2
Std Dev 0
3
2
1
0
−1
−2

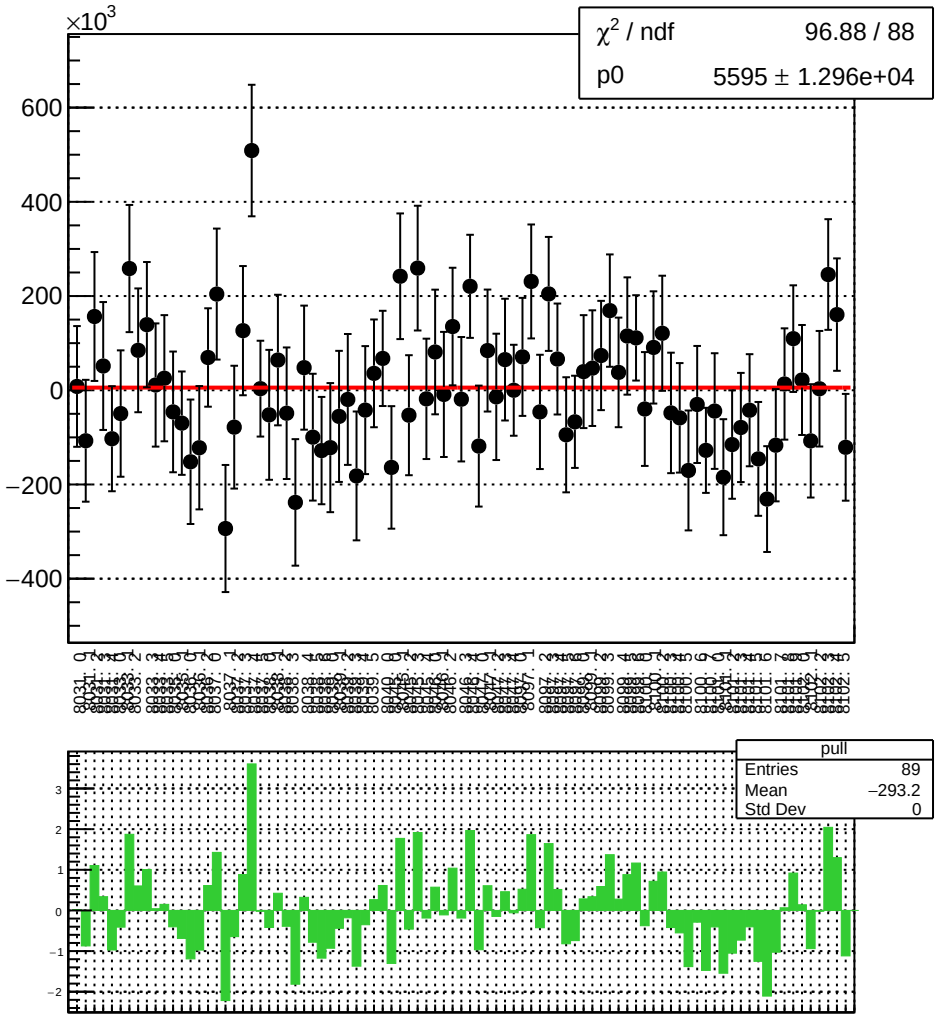

pull1D
Entries 89
Mean 0.005168
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

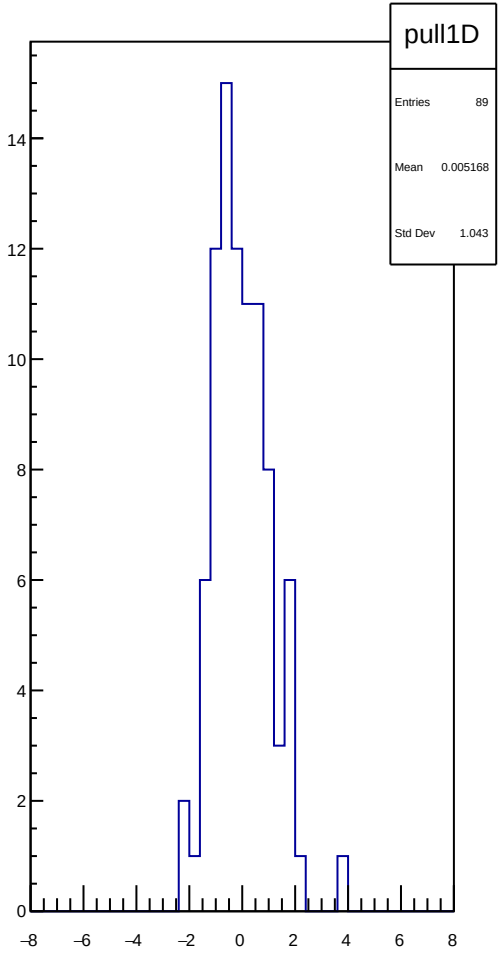

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 6913 / 88
p0 1.209e+04 ± 9.162
14000
13500
13000
12500
12000
11500
11000
10500

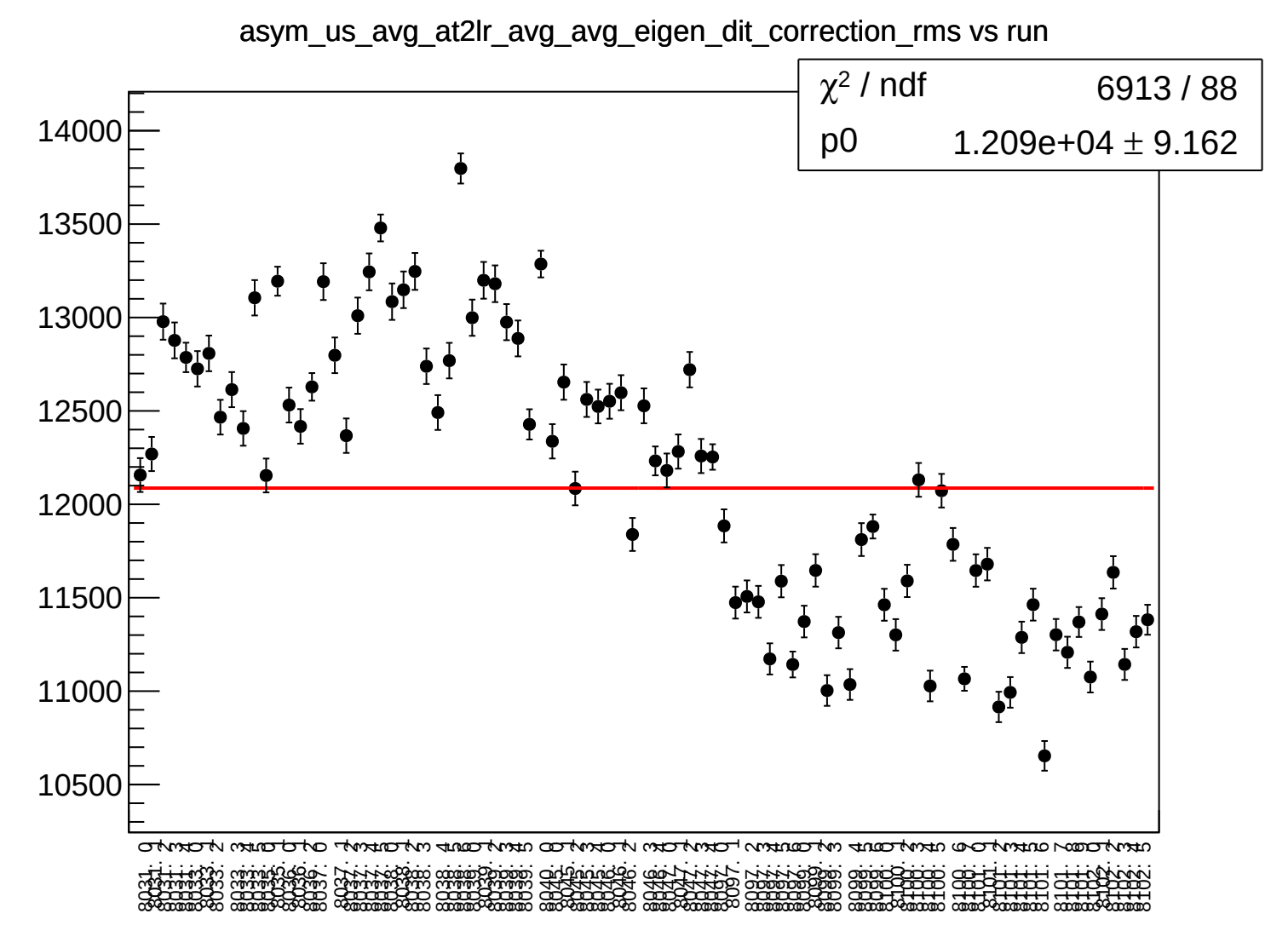

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 82.71 / 88
p0 4628 ± 2378
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 345.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

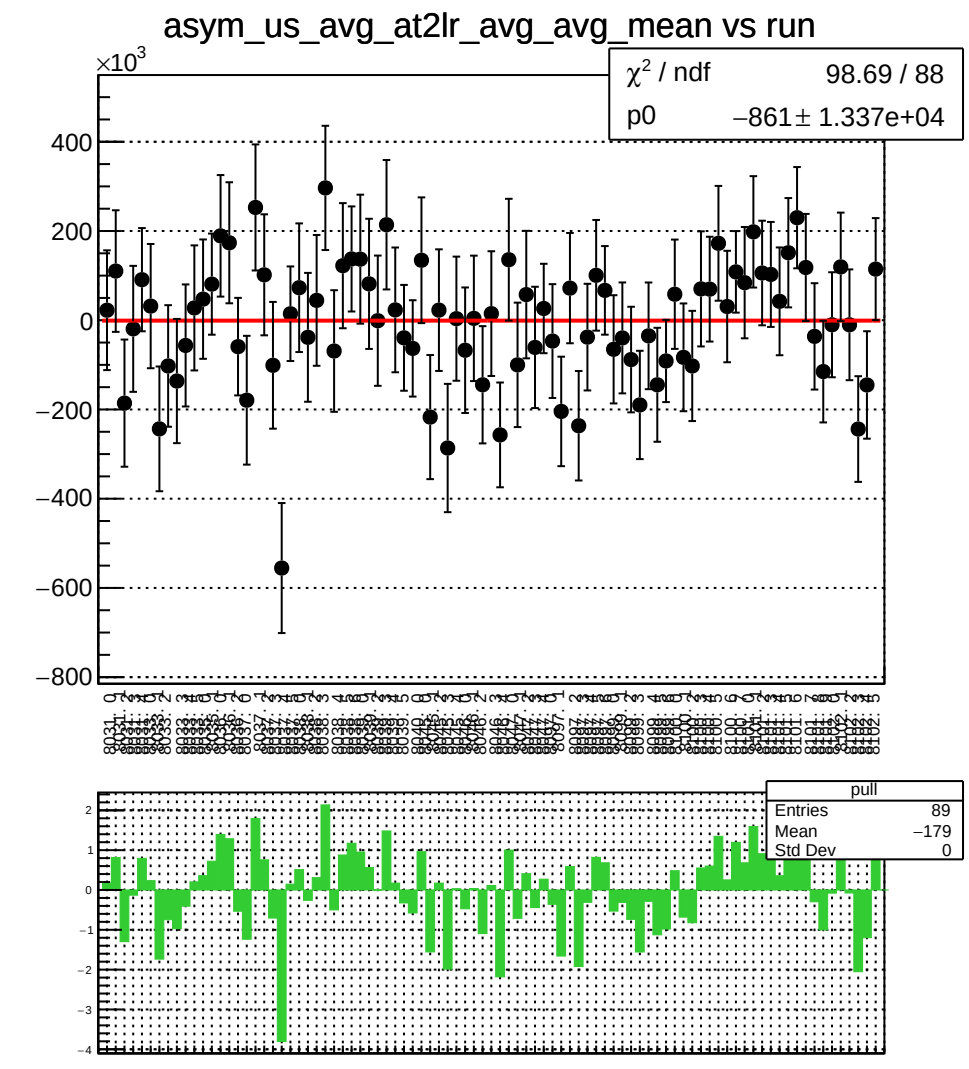

pull1D
Entries 89
Mean −0.004959
Std Dev 0.964
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

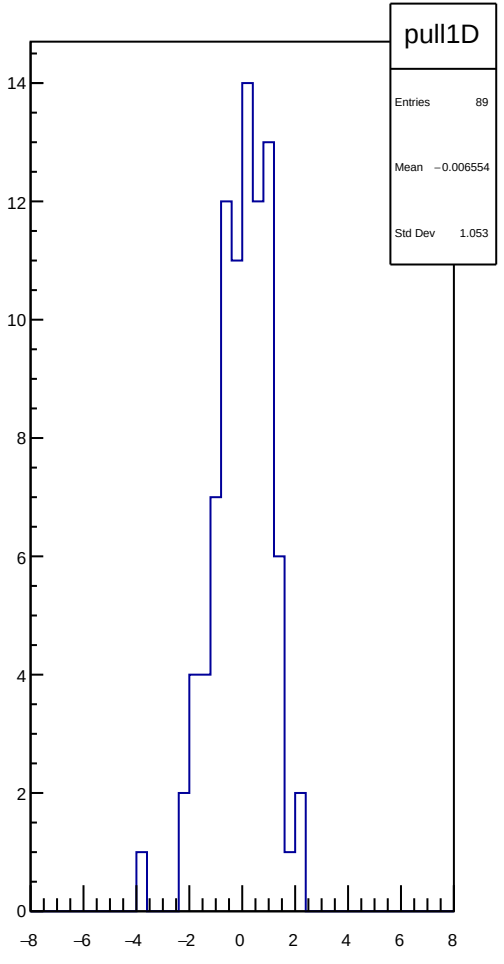

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1.062e+04 / 88
p0 2216 ± 1.681
2700
2600
2500
2400
2300
2200
2100
2000

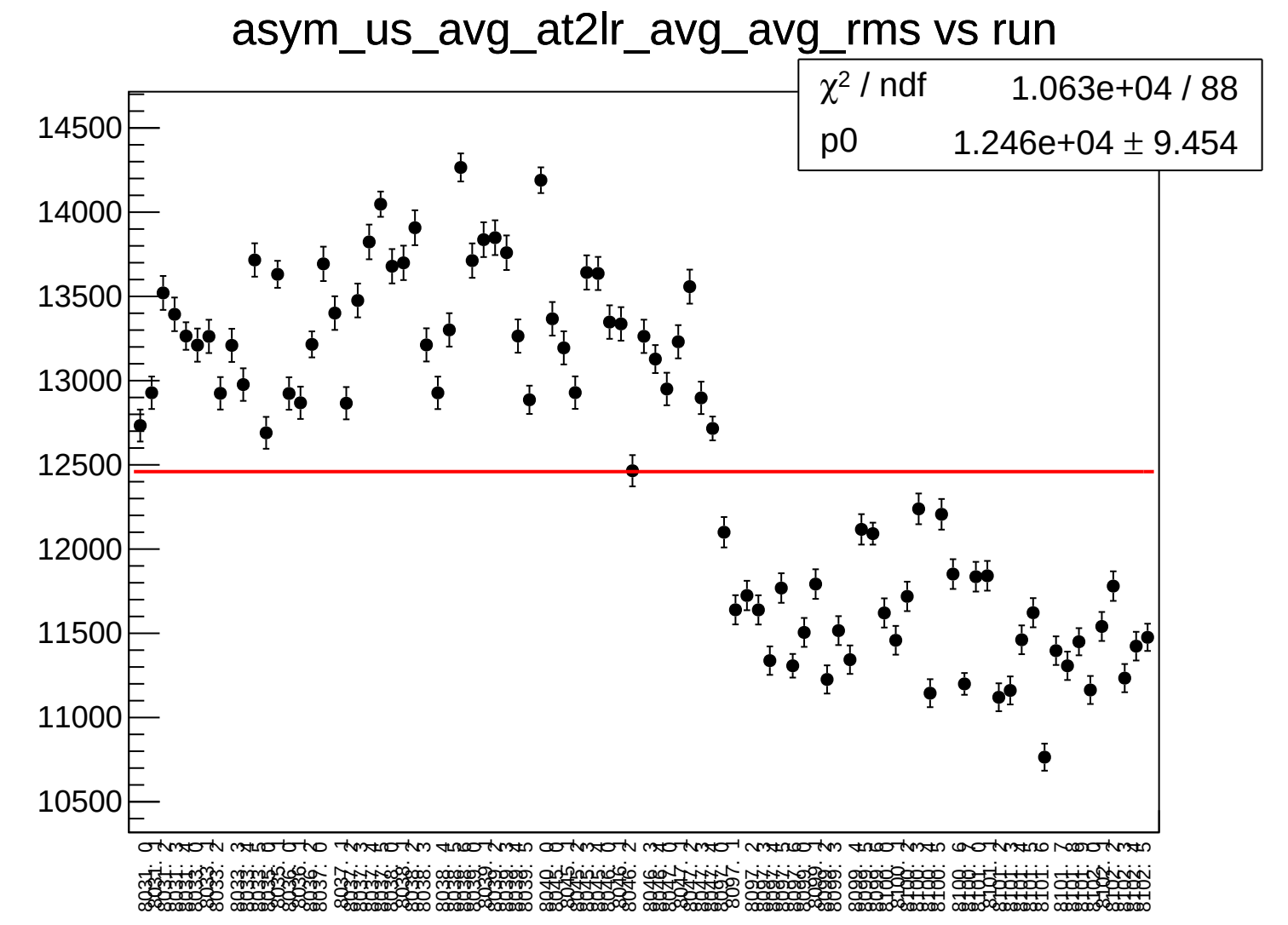

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.88 / 88
p0 5595 ± 1.296e+04
600
400
200
0
−200
−400
pull
Entries 89
Mean −293.2
Std Dev 0
3
2
1
0
−1
−2

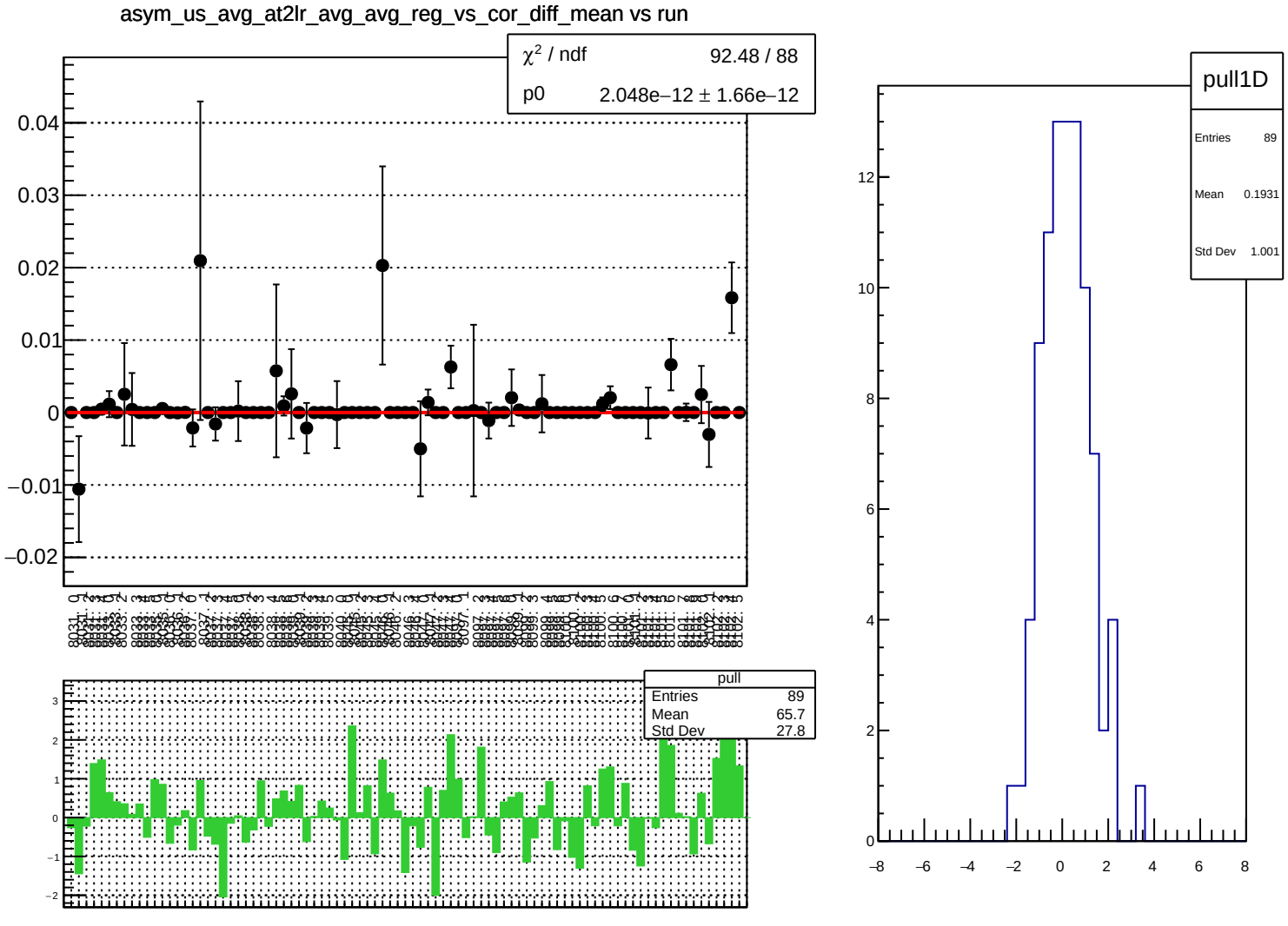

pull1D
Entries 89
Mean 0.005168
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

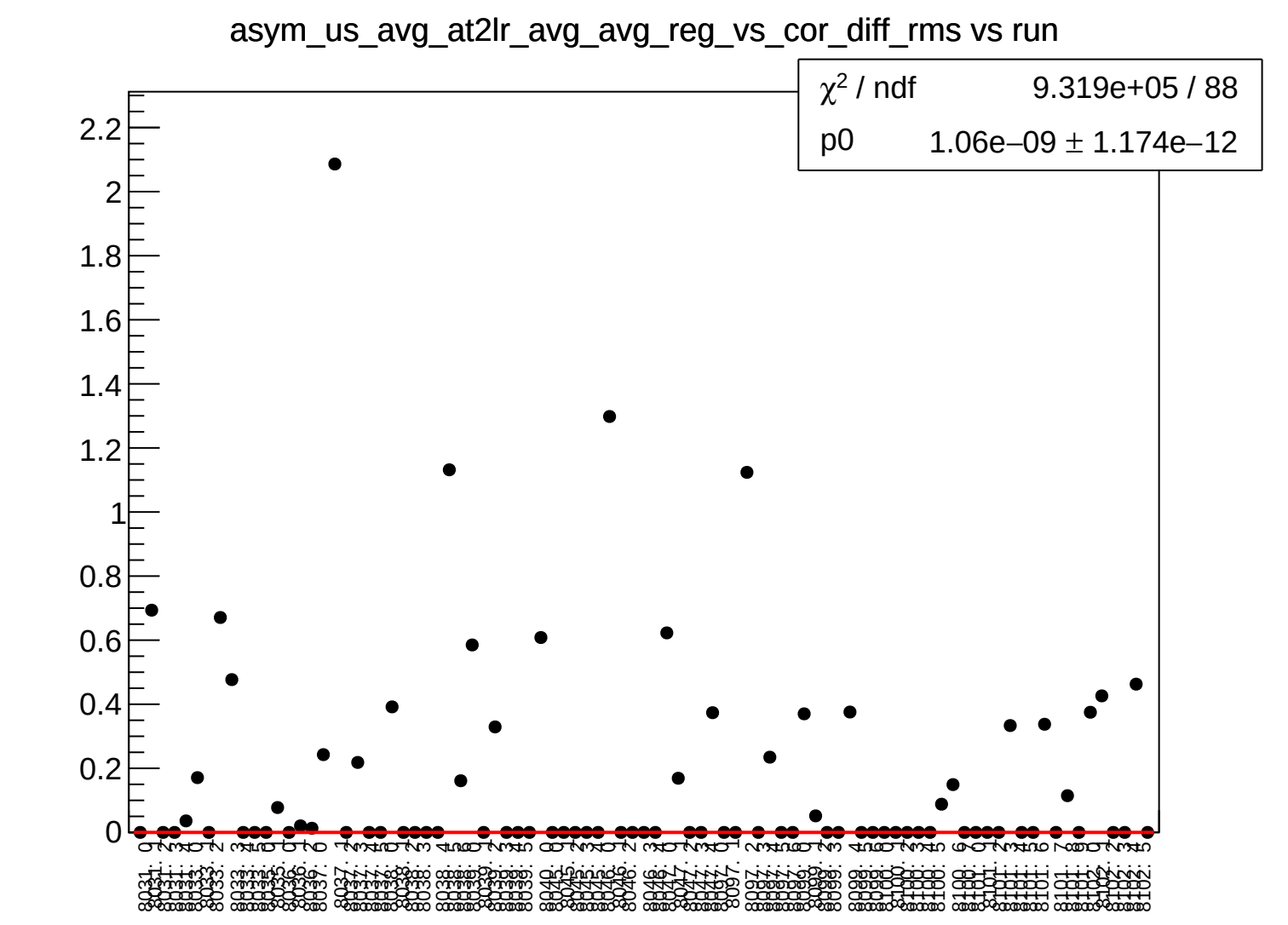

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 6913 / 88
p0 1.209e+04 ± 9.162
14000
13500
13000
12500
12000
11500
11000
10500

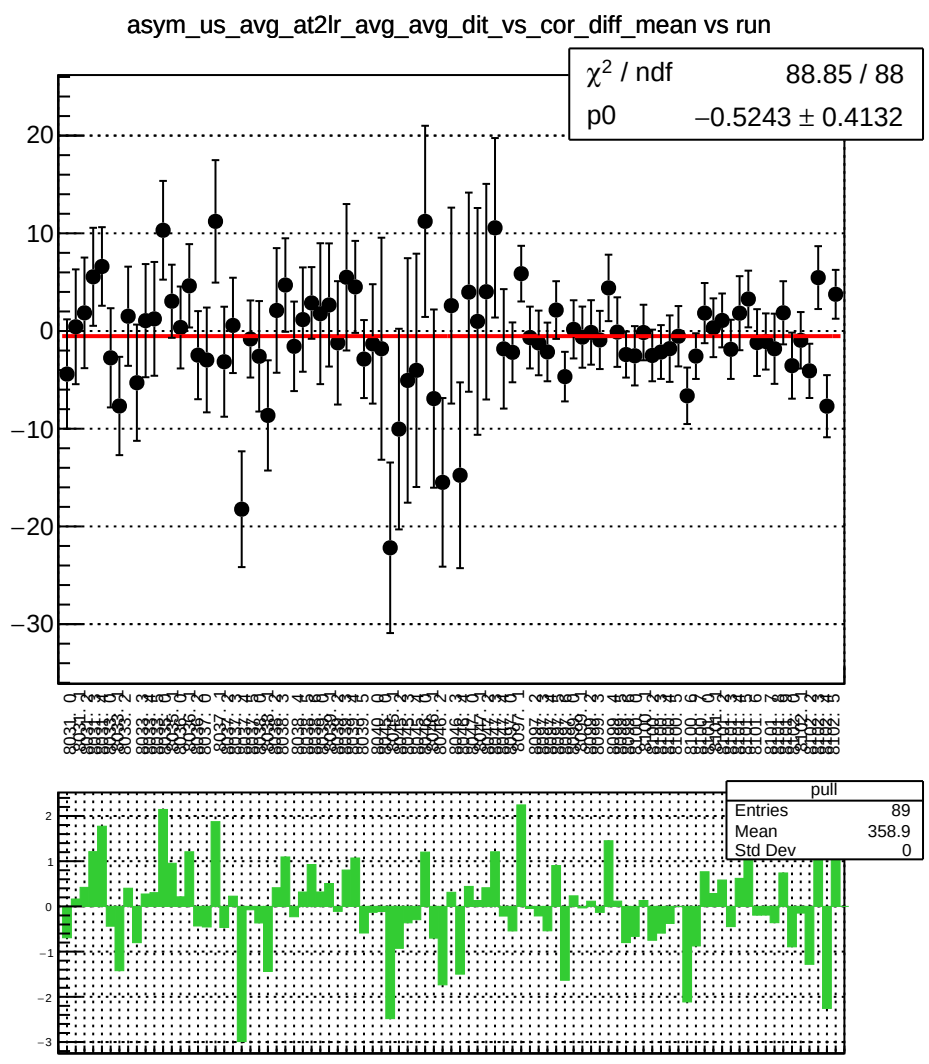

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 98.69 / 88
p0 −861 ± 1.337e+04
400
200
0
−200
−400
−600
−800
pull
Entries 89
Mean −179
Std Dev 0
2
1
0
−1
−2
−3
−4

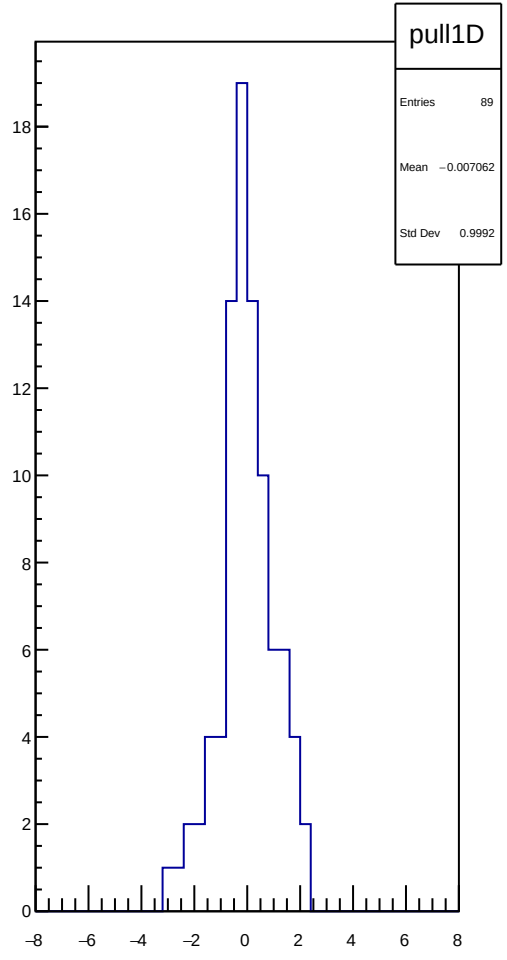

pull1D
Entries 89
Mean −0.006554
Std Dev 1.053
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

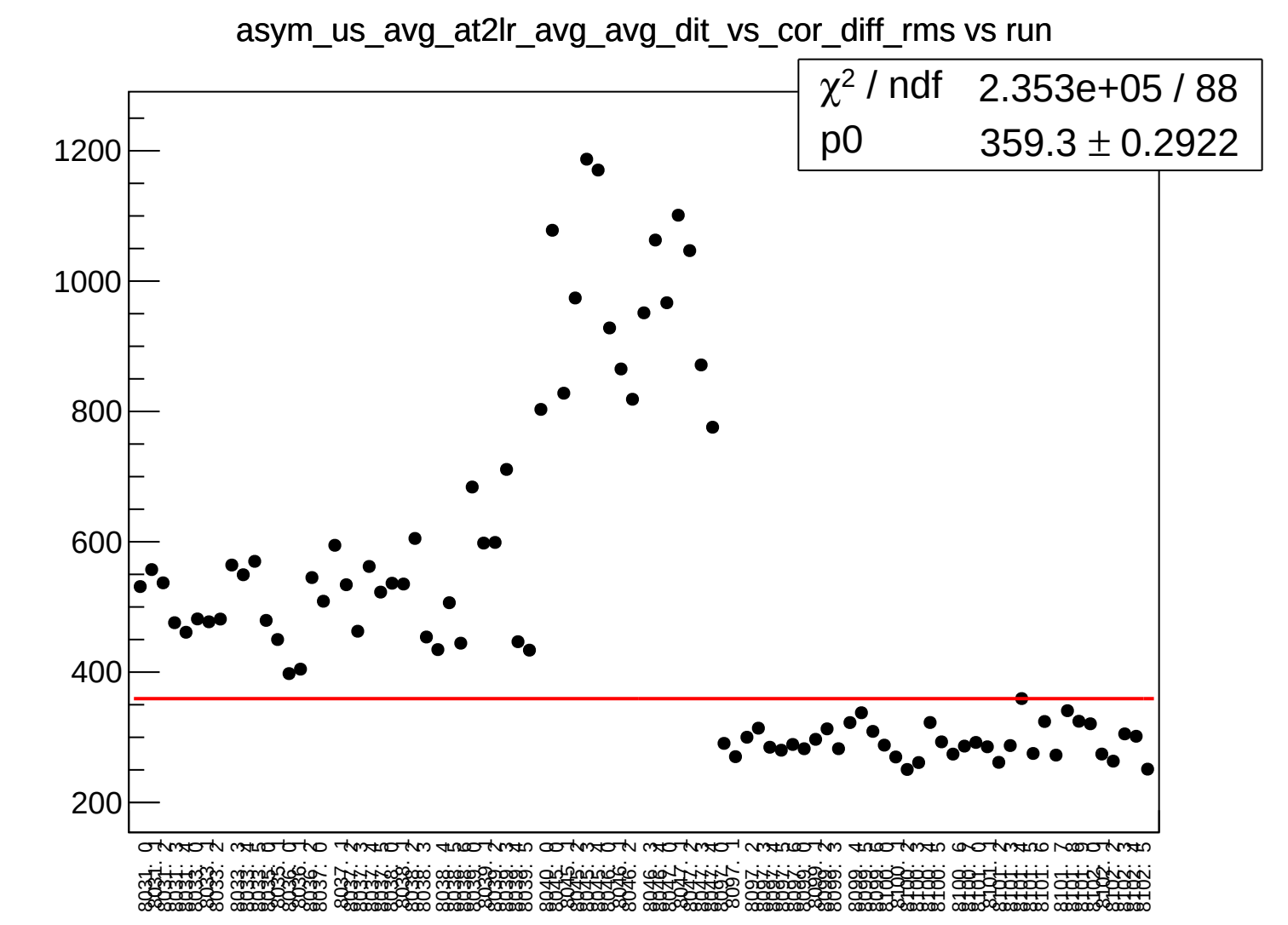

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1.063e+04 / 88
p0 1.246e+04 ± 9.454
14500
14000
13500
13000
12500
12000
11500
11000
10500

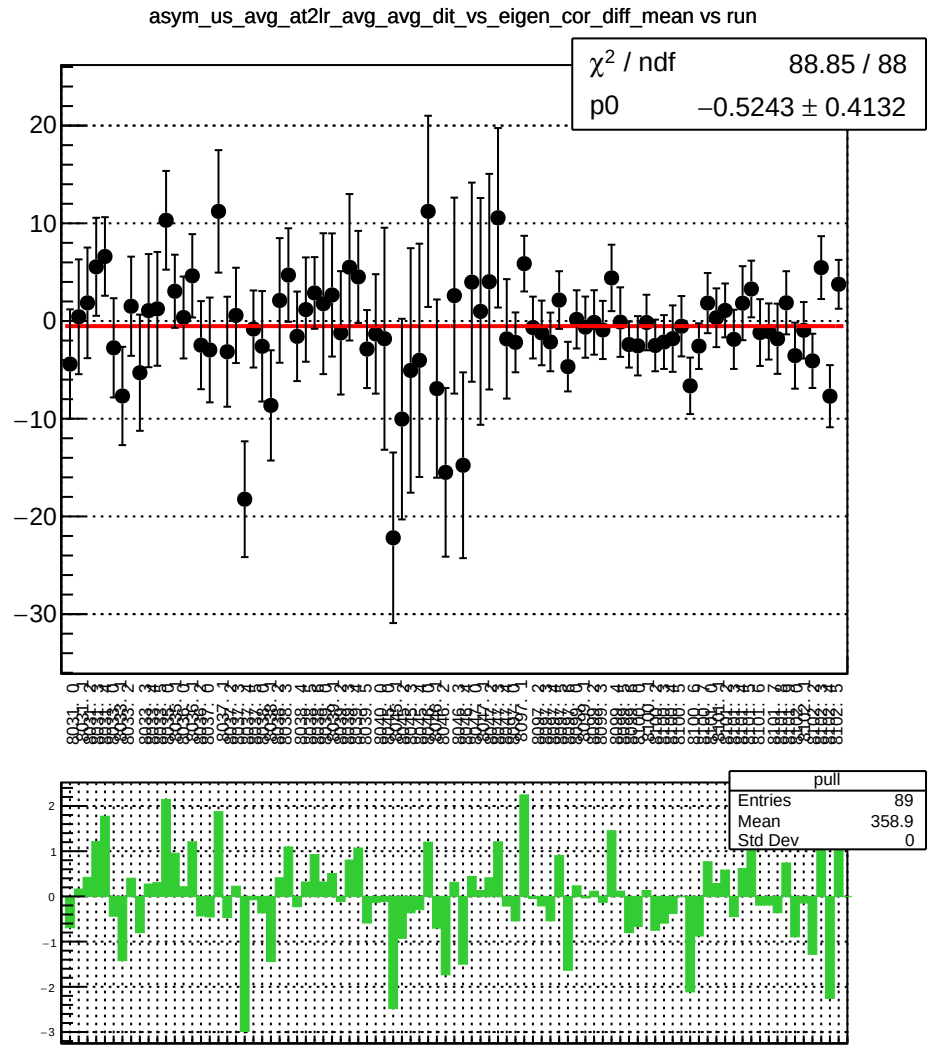

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 92.48 / 88
p0 2.048e−12 ± 1.66e−12
0.04
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 89
Mean 65.7
Std Dev 27.8
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.1931
Std Dev 1.001
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

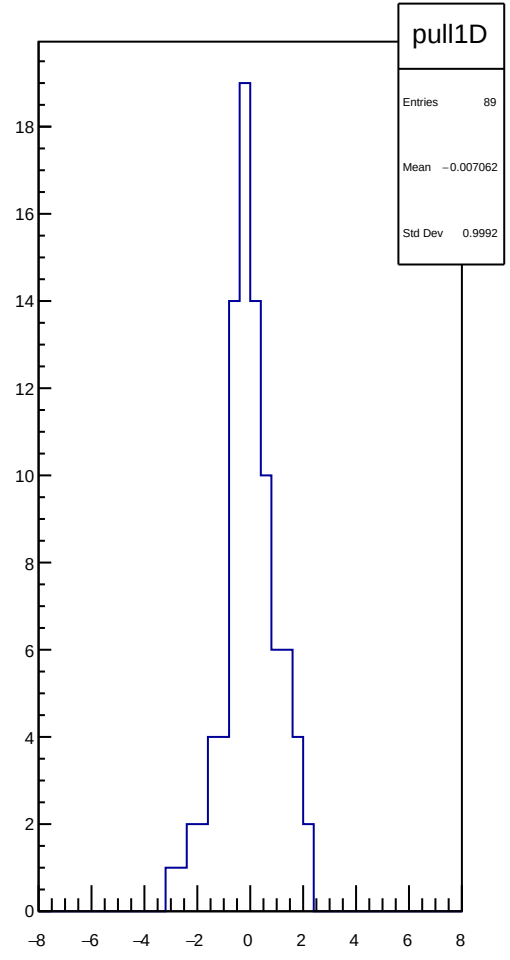

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
$\chi^2$ / ndf 9.319e+05 / 88
p0 1.06e−09 ± 1.174e−12
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

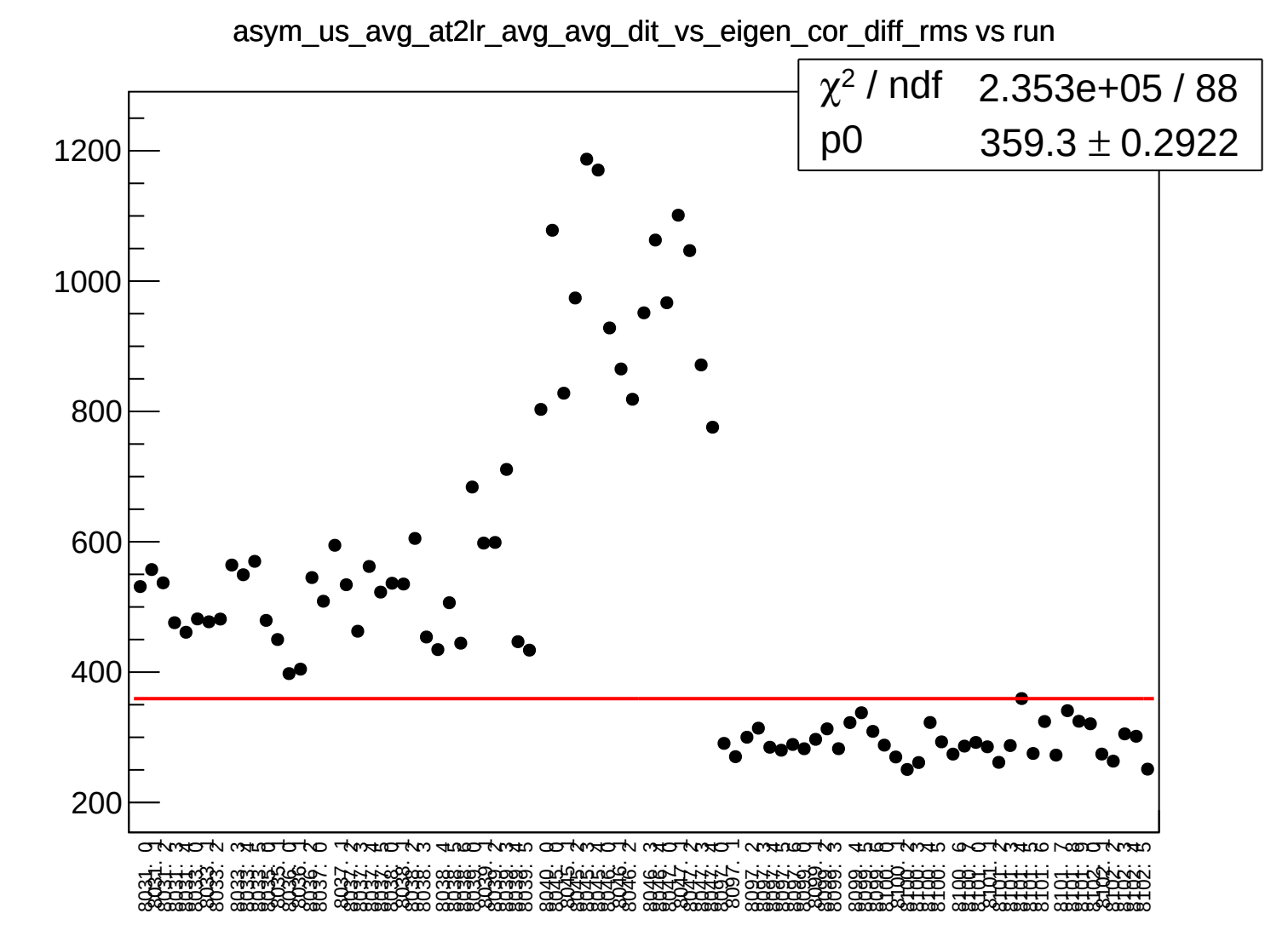

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 88.85 / 88
p0 −0.5243 ± 0.4132
pull
Entries 89
Mean 358.9
Std Dev 0

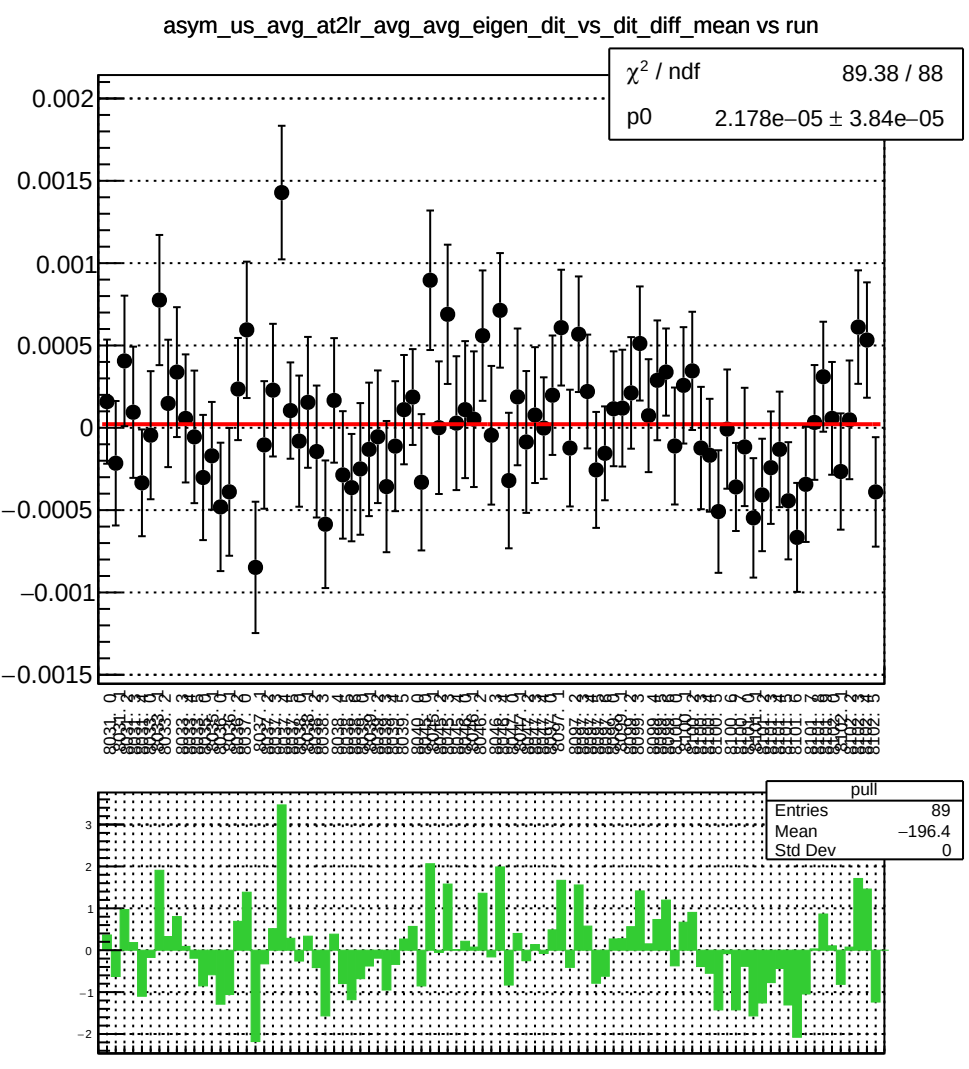

pull1D
Entries 89
Mean −0.007062
Std Dev 0.9992

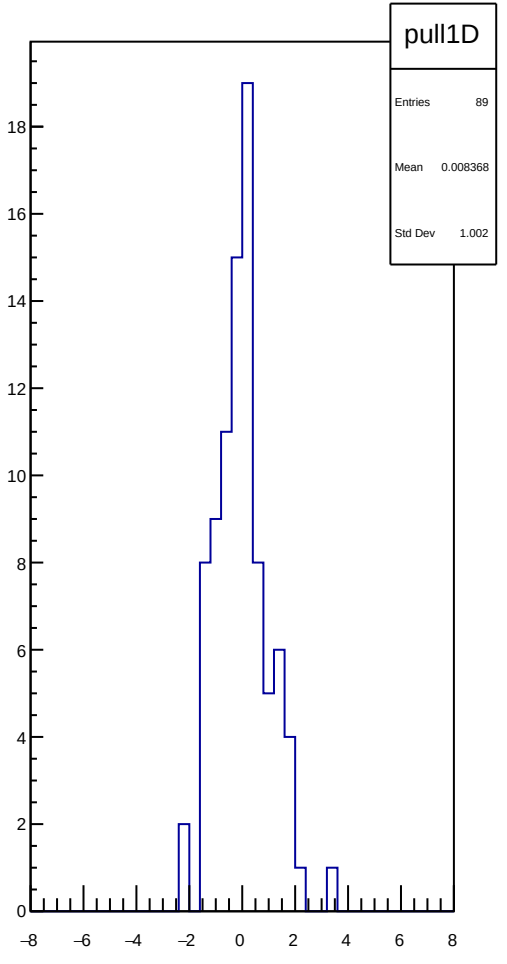

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.353e+05 / 88
p0 359.3 ± 0.2922
1200
1000
800
600
400
200

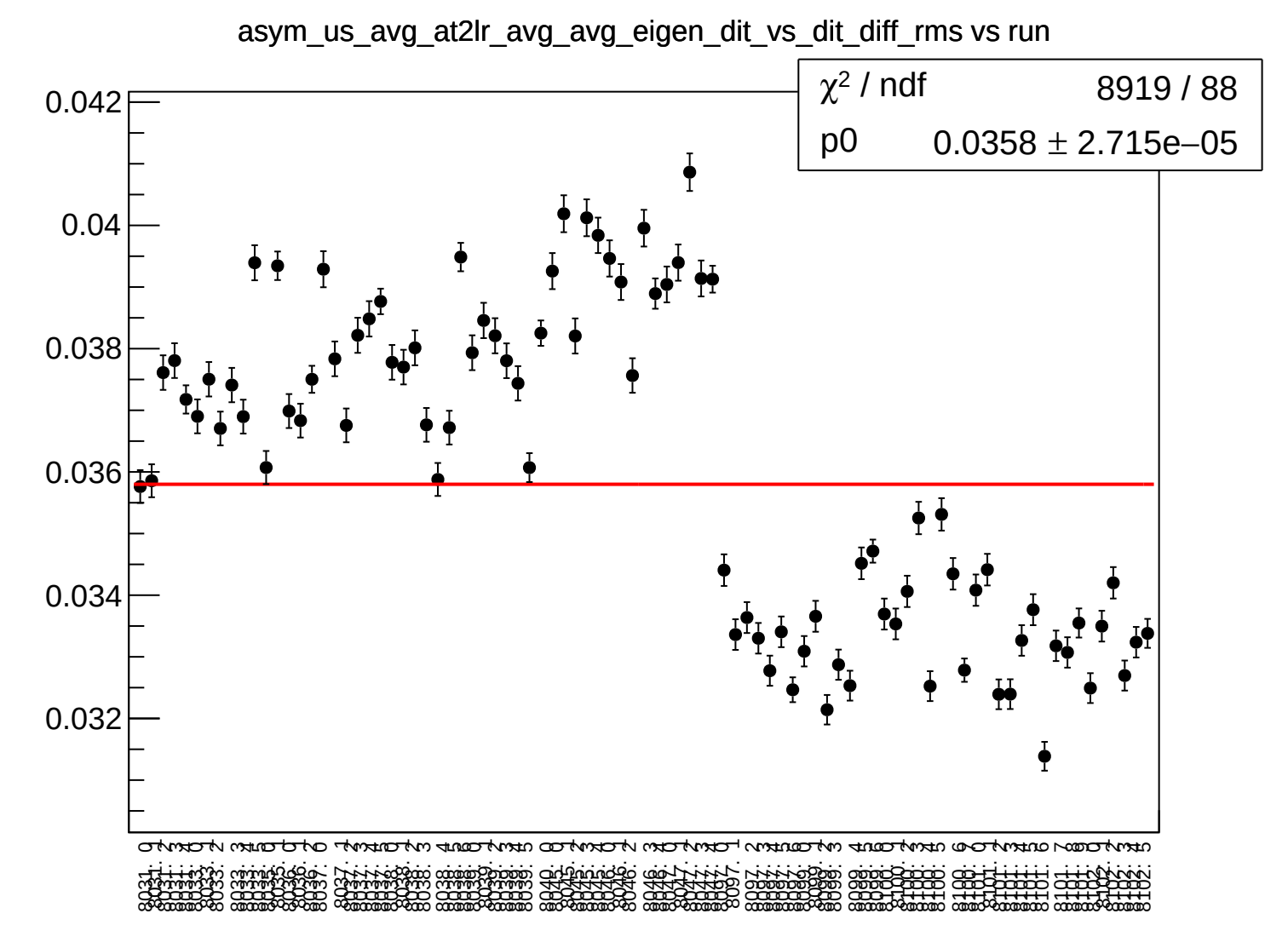

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.85 / 88
p0 −0.5243 ± 0.4132
pull
Entries 89
Mean 358.9
Std Dev 0

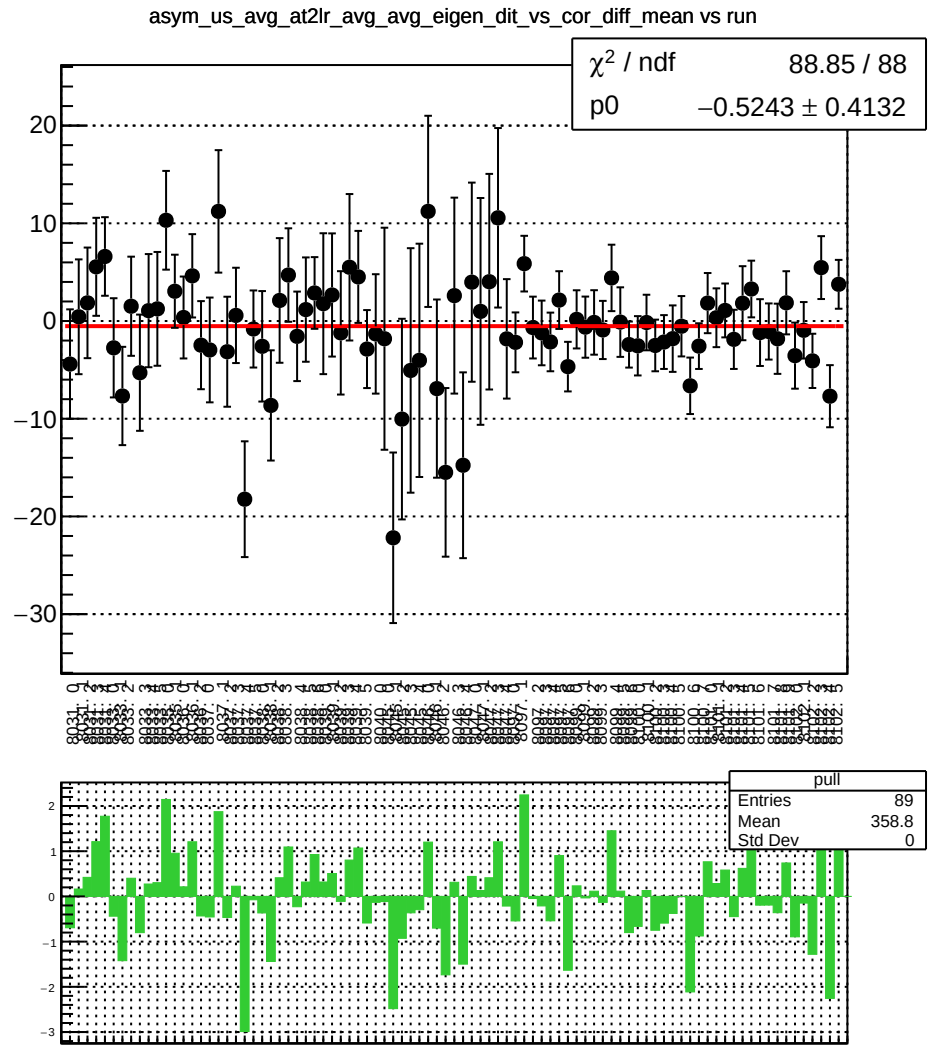

pull1D
Entries 89
Mean −0.007062
Std Dev 0.9992

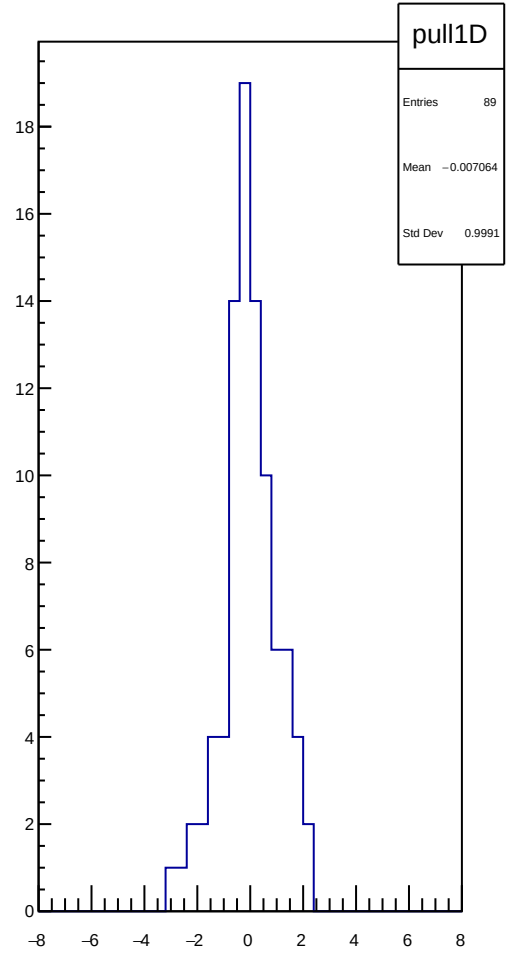

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.353e+05 / 88
p0 359.3 ± 0.2922
1200
1000
800
600
400
200

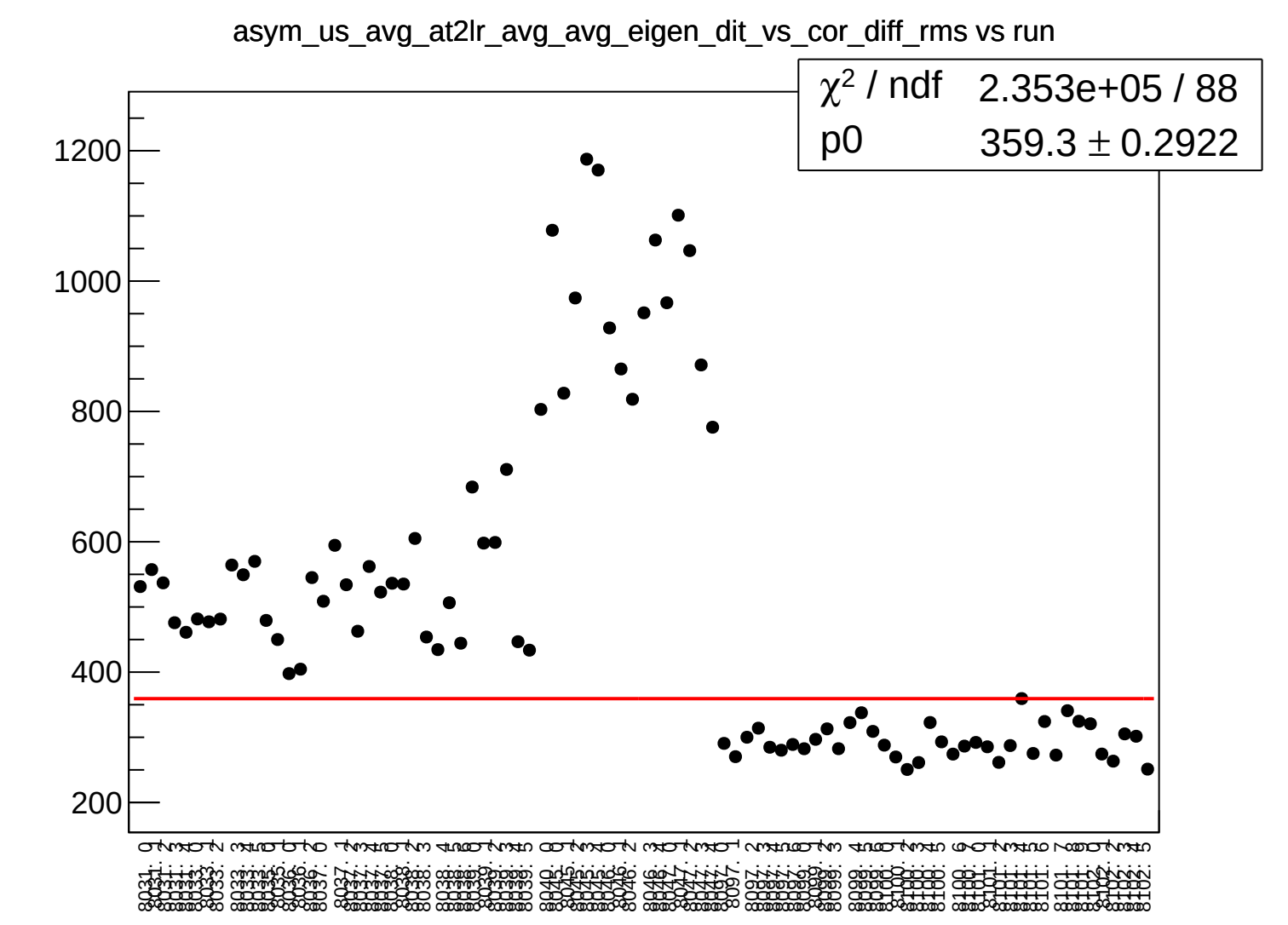

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 89.38 / 88
p0 2.178e−05 ± 3.84e−05
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 89
Mean −196.4
Std Dev 0
3
2
1
0
−1
−2

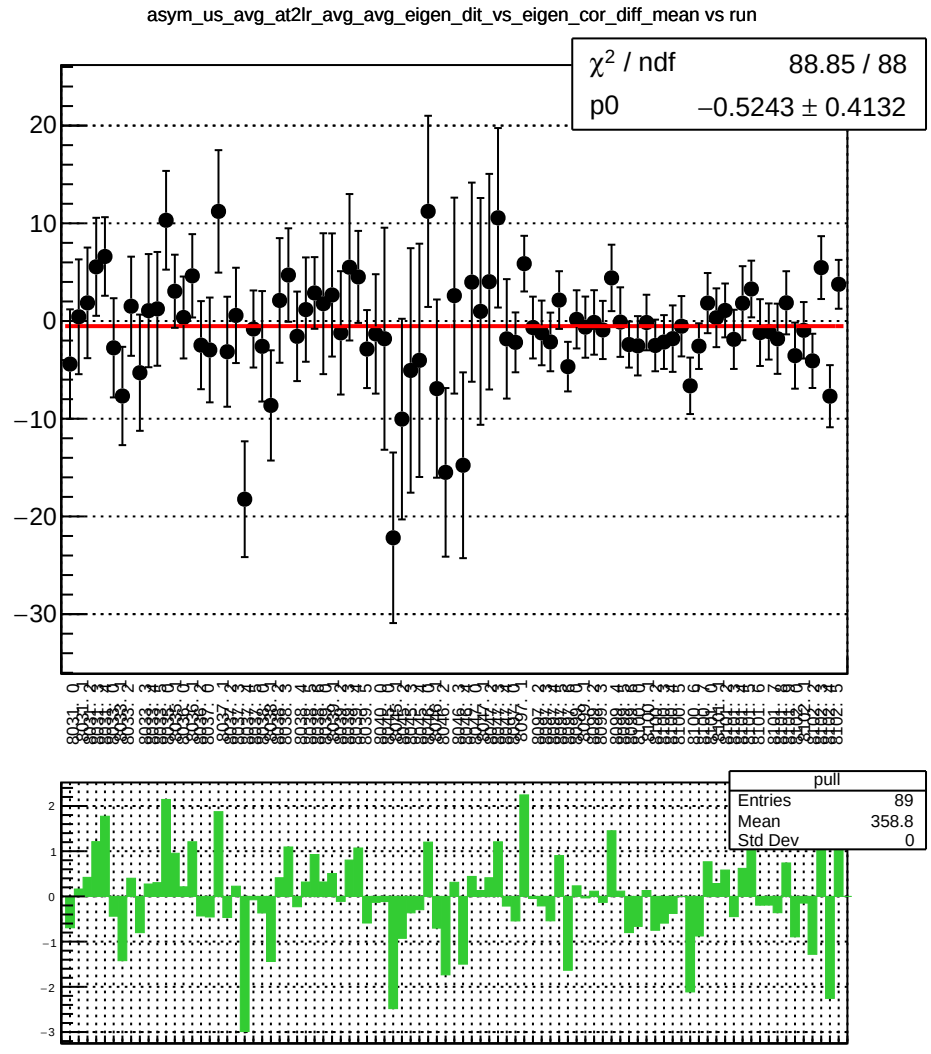

pull1D
Entries 89
Mean 0.008368
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

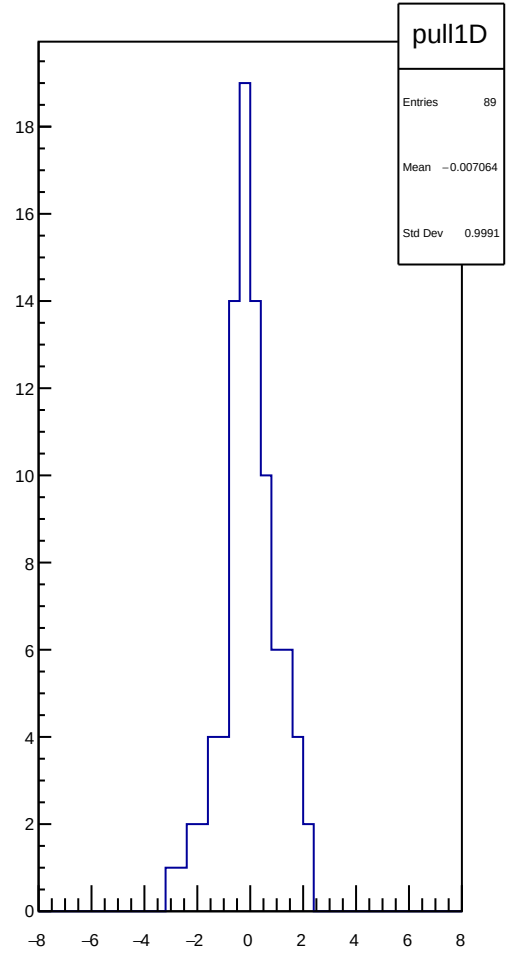

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8919 / 88
p0 0.0358 ± 2.715e−05
0.042
0.04
0.038
0.036
0.034
0.032

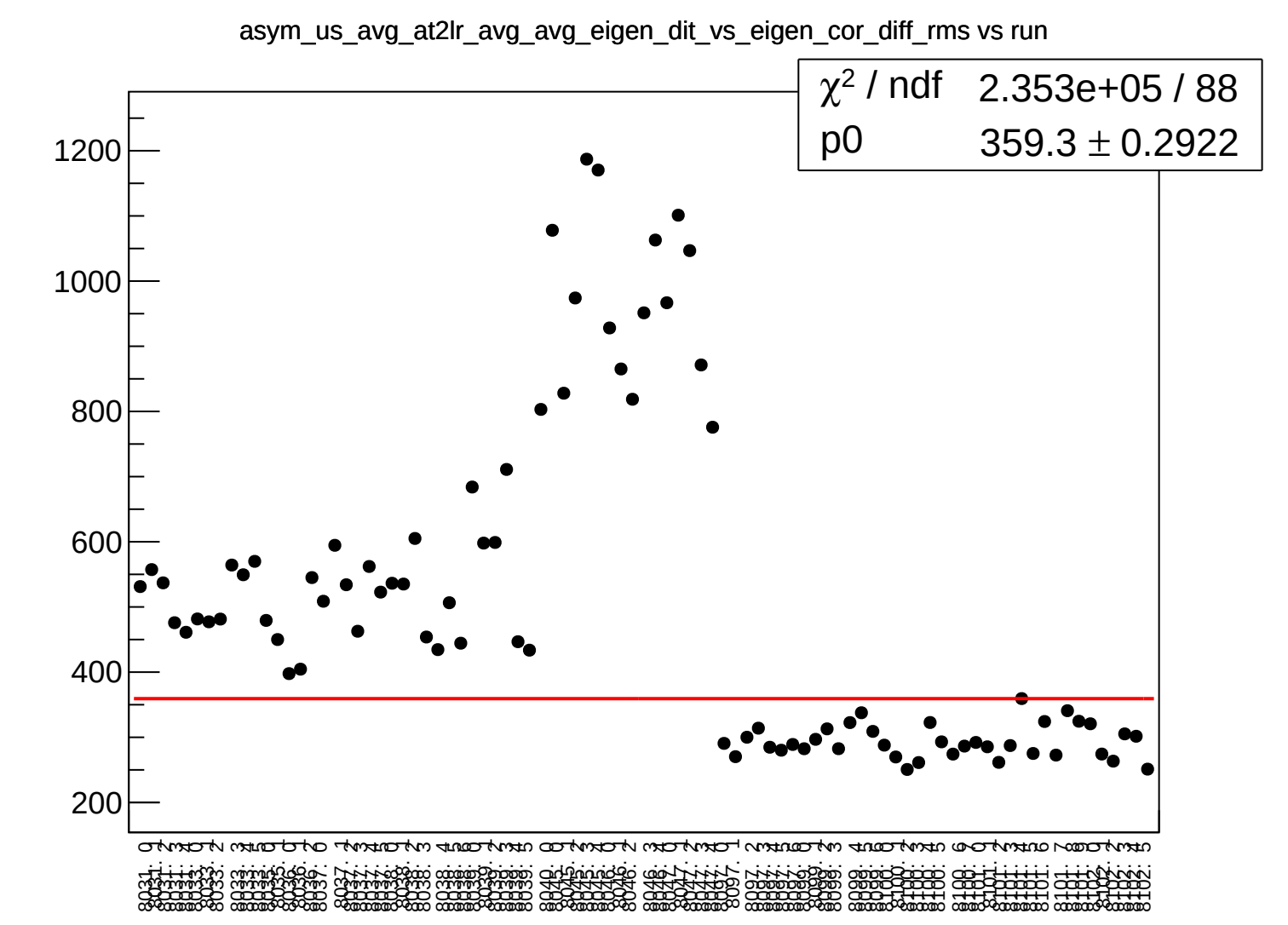

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.85 / 88
p0 −0.5243 ± 0.4132
pull
Entries 89
Mean 358.8
Std Dev 0

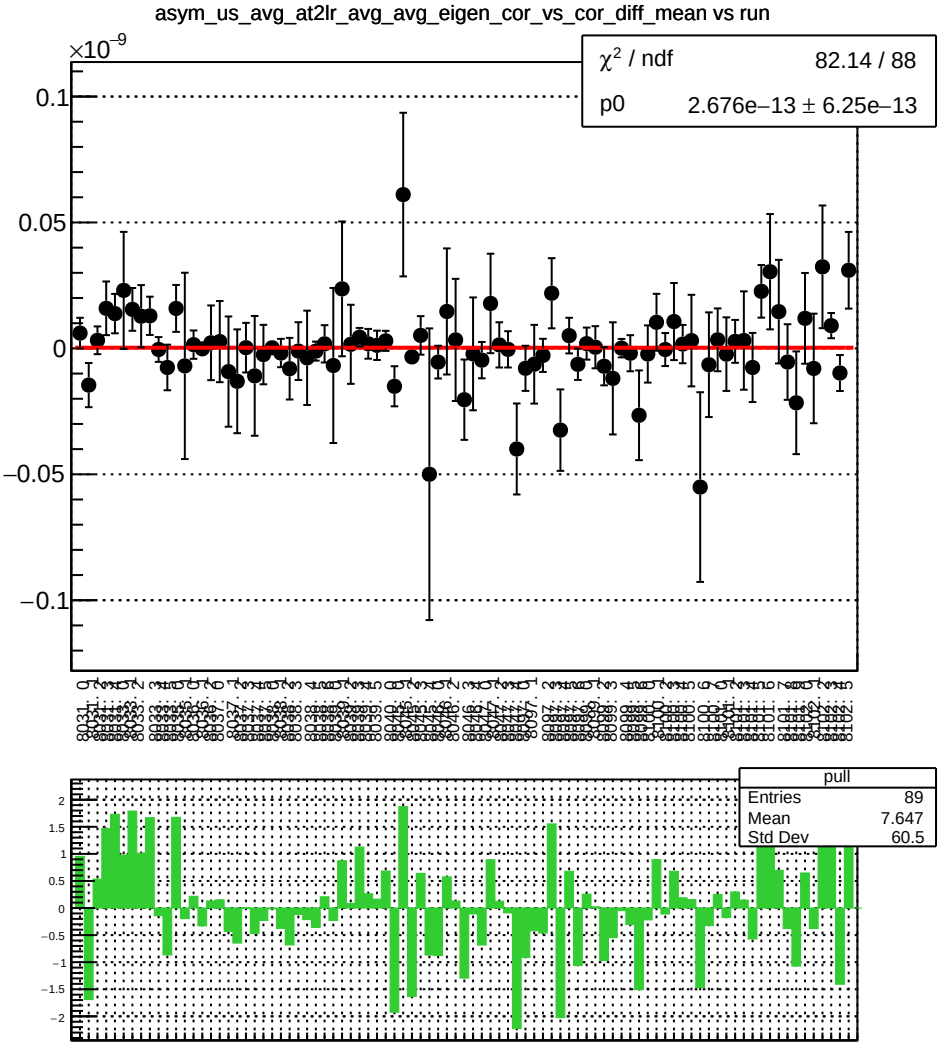

pull1D
Entries 89
Mean −0.007064
Std Dev 0.9991

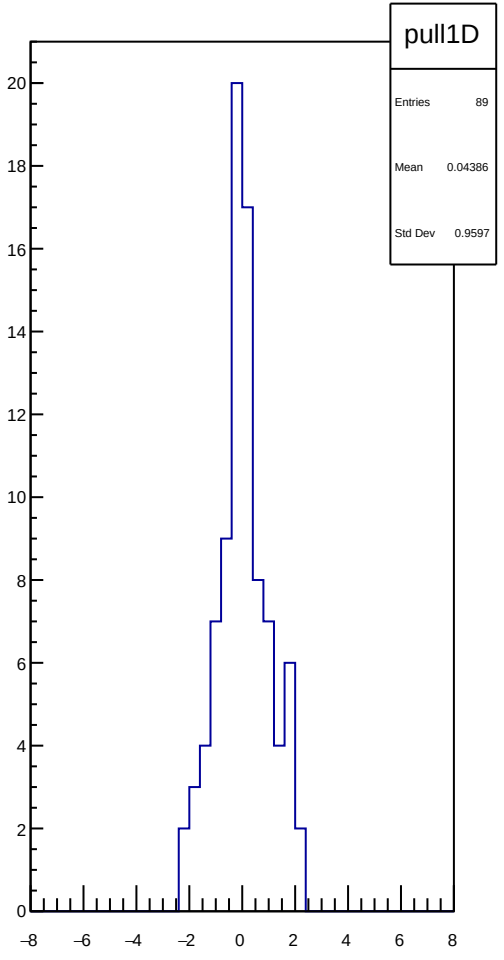

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.353e+05 / 88
p0 359.3 ± 0.2922
1200
1000
800
600
400
200

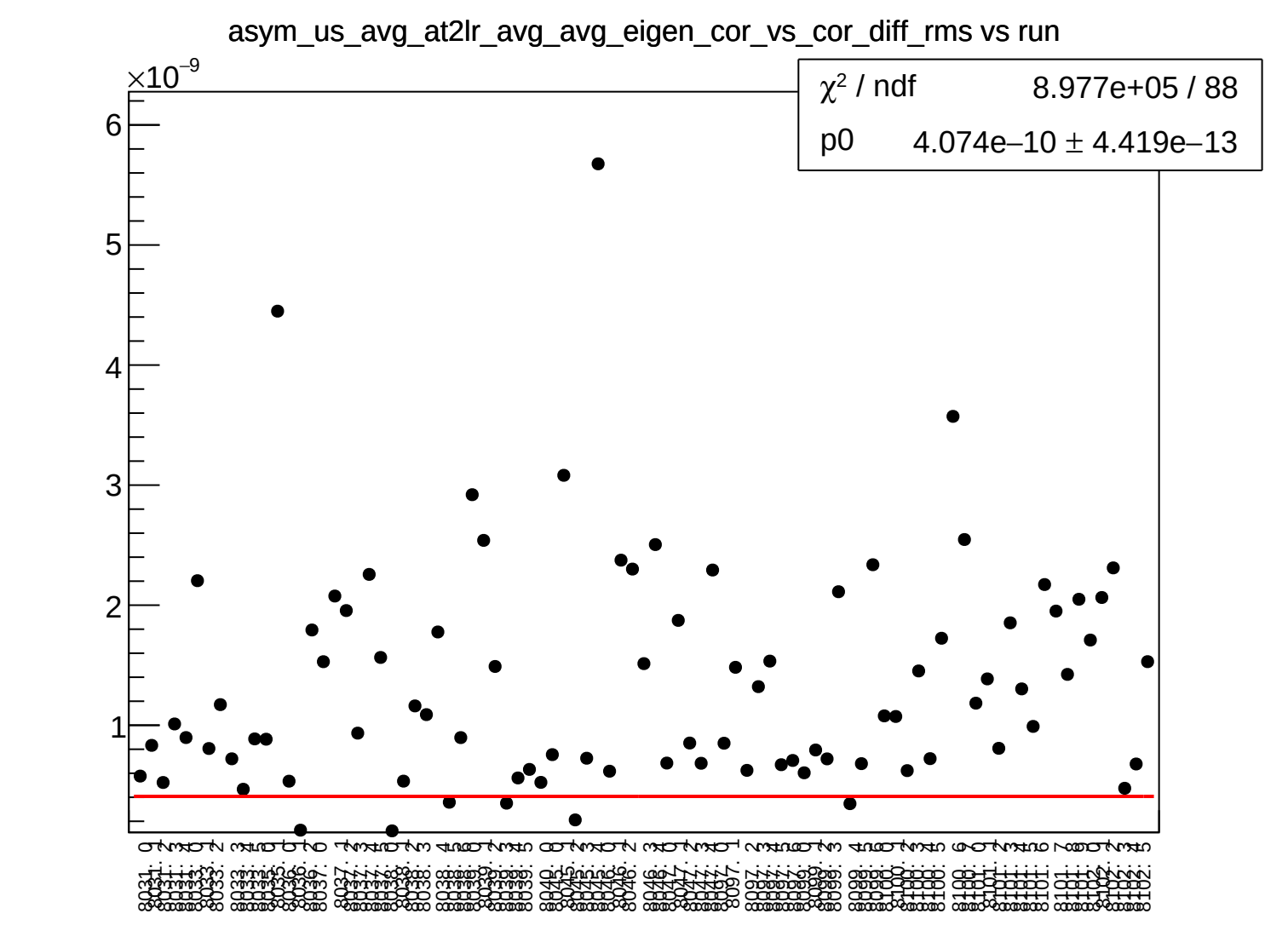

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.85 / 88
p0 −0.5243 ± 0.4132
pull
Entries 89
Mean 358.8
Std Dev 0

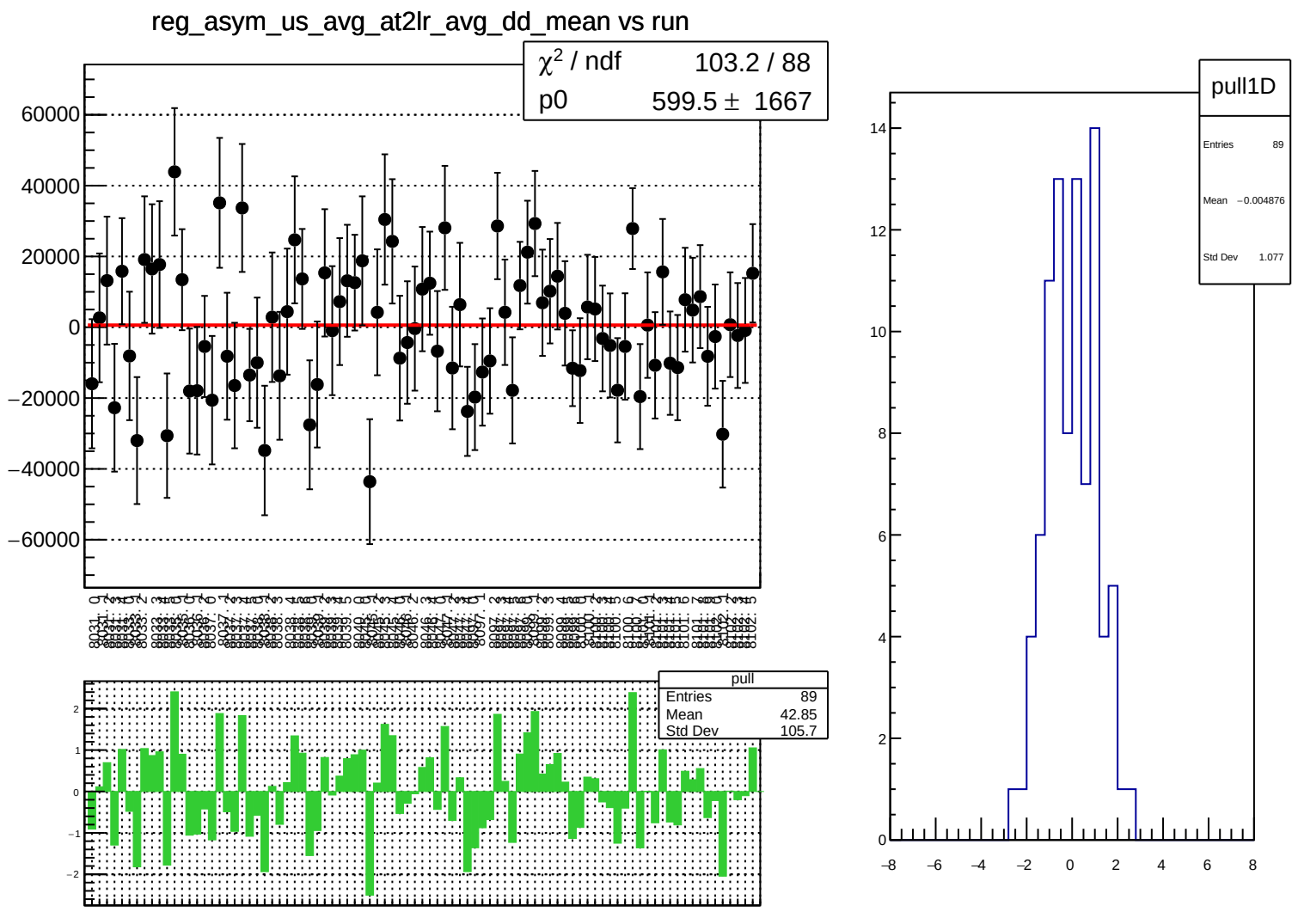

pull1D
Entries 89
Mean −0.007064
Std Dev 0.9991

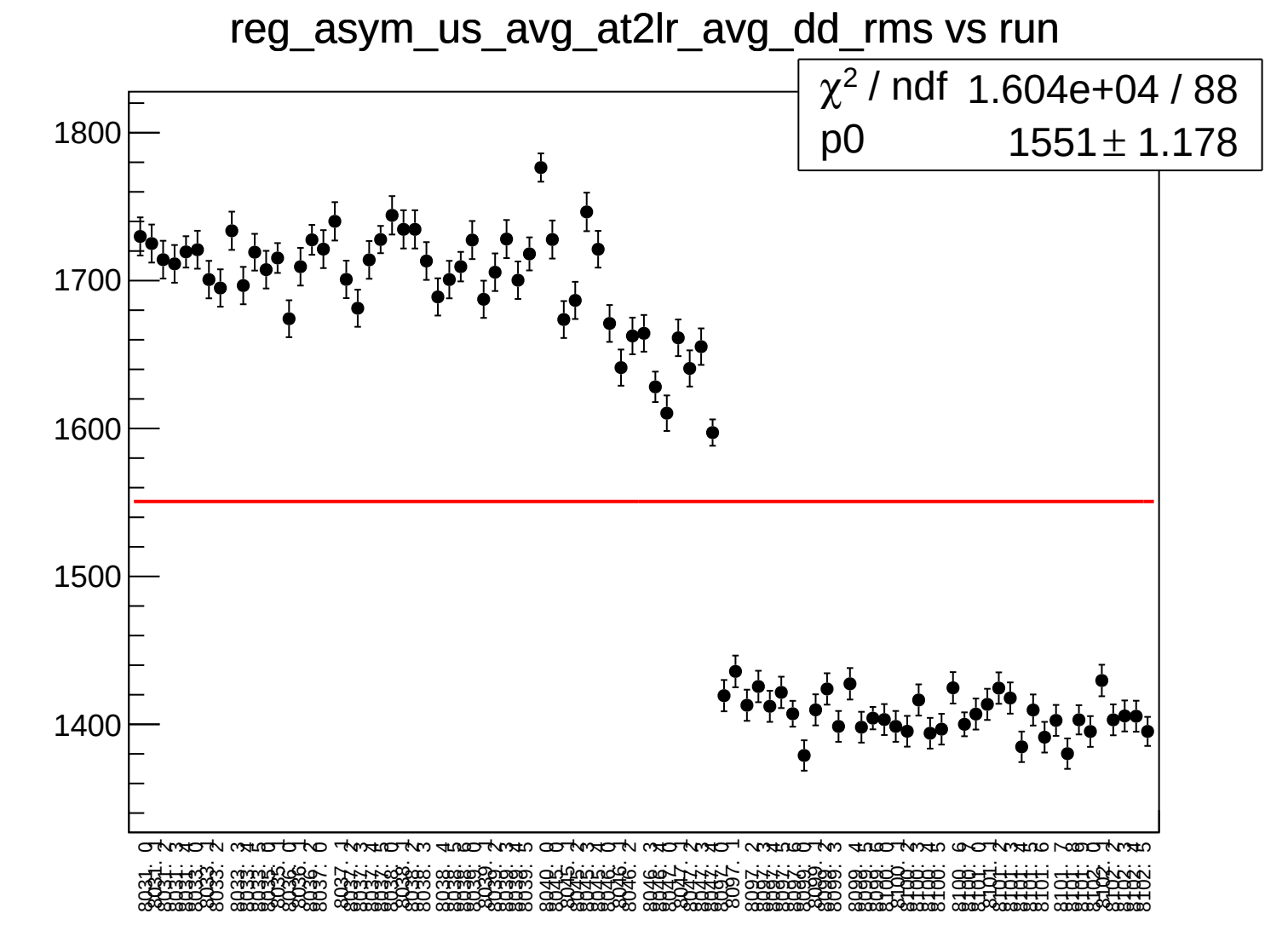

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.353e+05 / 88
p0 359.3 ± 0.2922
1200
1000
800
600
400
200

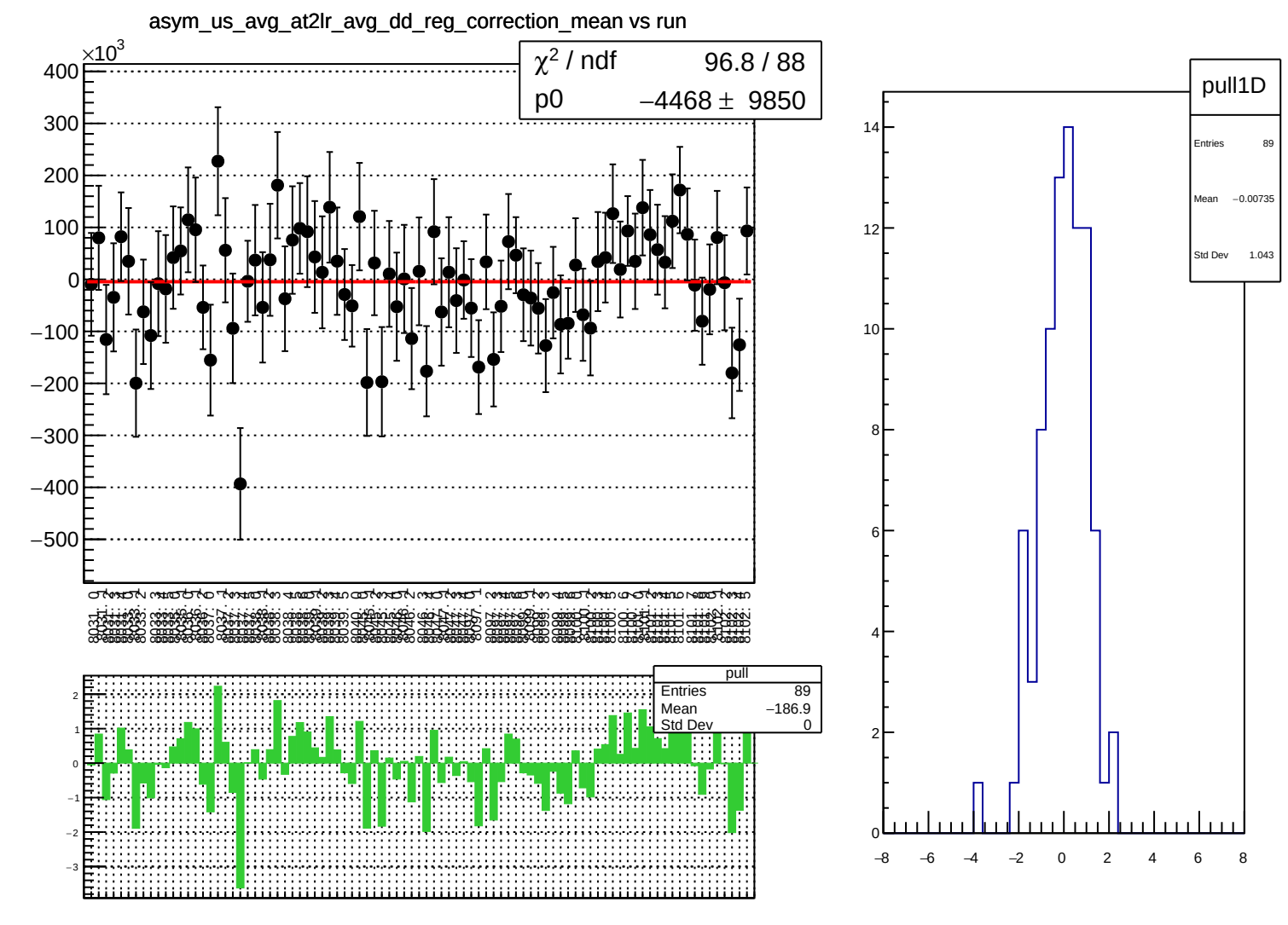

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 82.14 / 88
p0 2.676e−13 ± 6.25e−13
0.1
0.05
0
−0.05
−0.1
pull
Entries 89
Mean 7.647
Std Dev 60.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

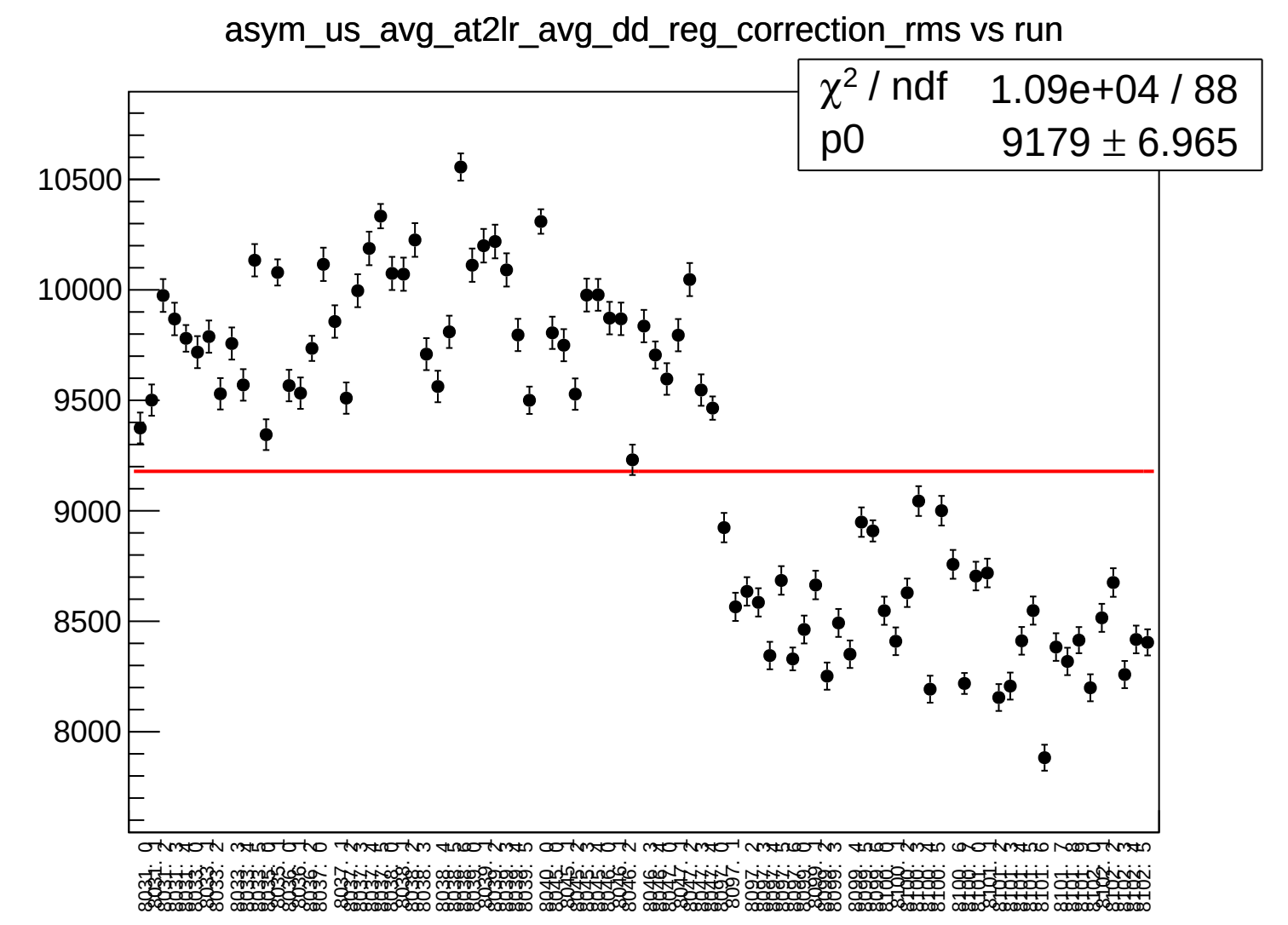

pull1D
Entries 89
Mean 0.04386
Std Dev 0.9597
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

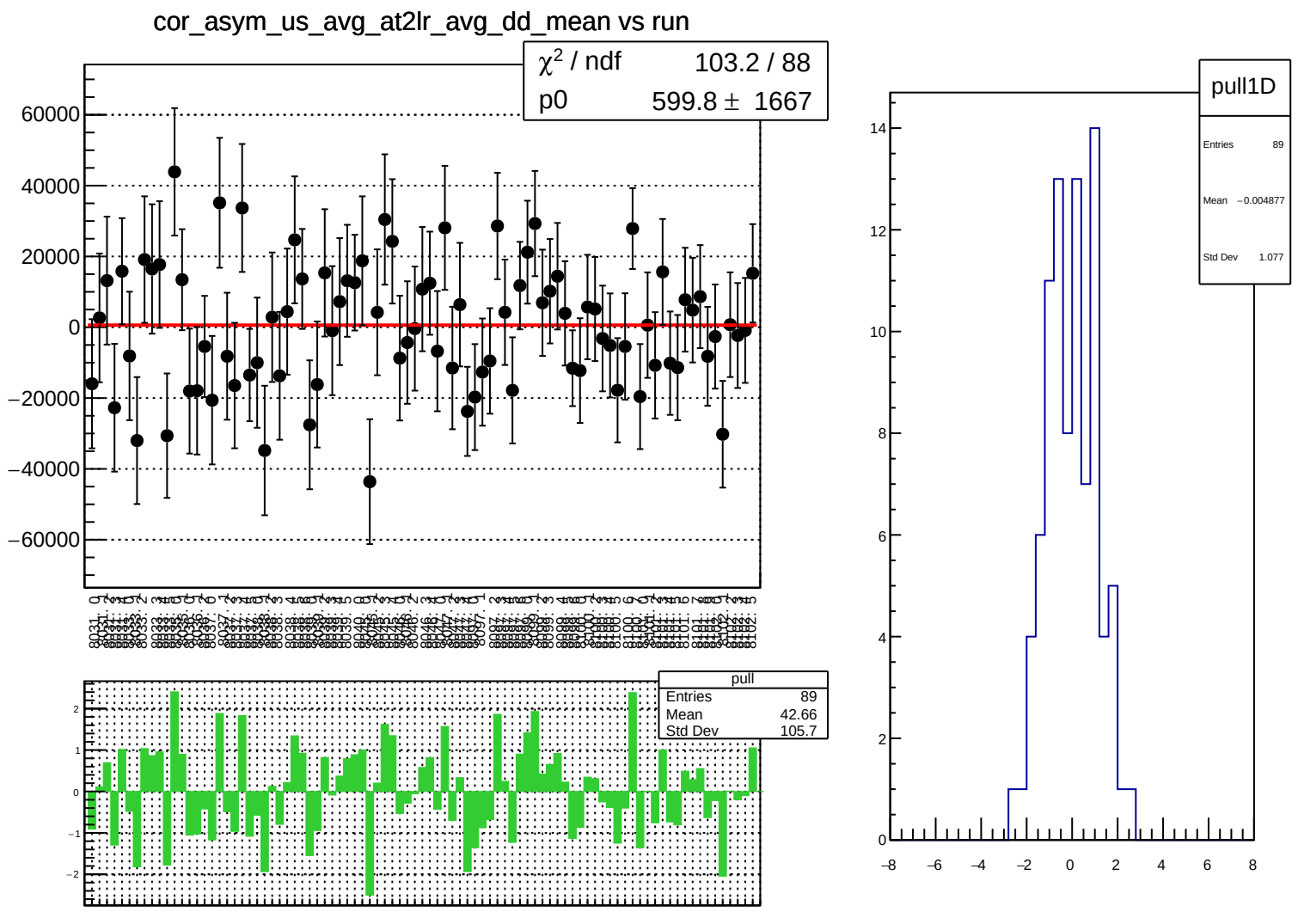

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.977e+05 / 88
p0 4.074e−10 ± 4.419e−13
6
5
4
3
2
1

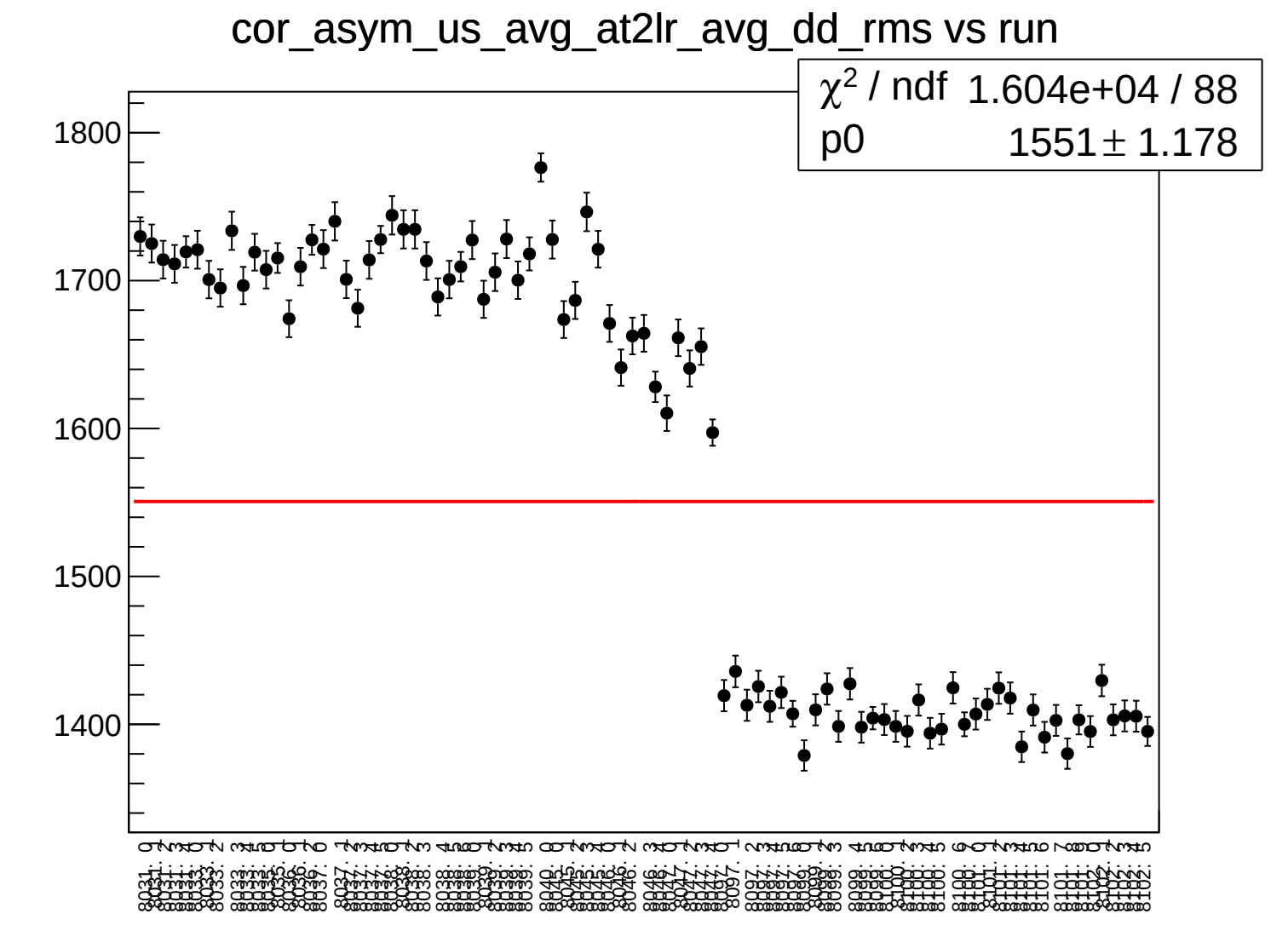

reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 103.2 / 88
p0 599.5 ± 1667
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 42.85
Std Dev 105.7
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.004876
Std Dev 1.077
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

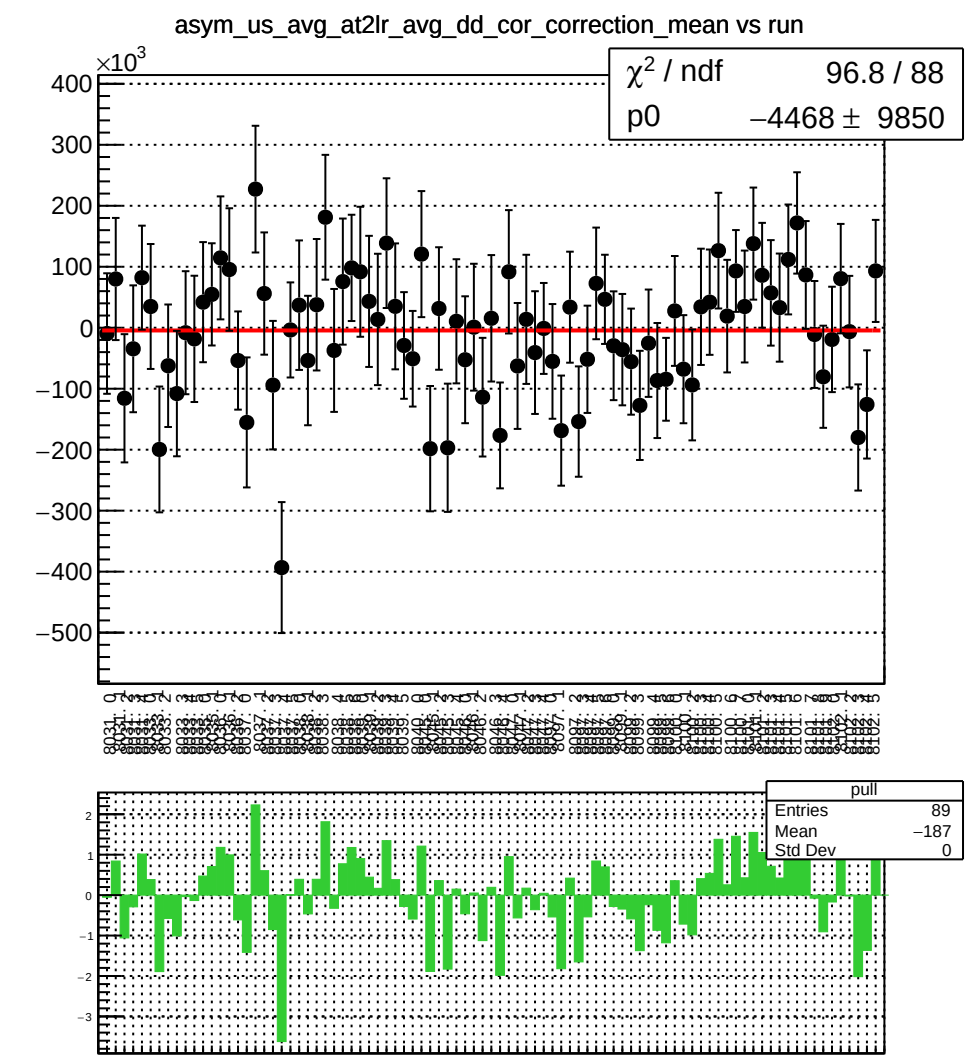

reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 1.604e+04 / 88
p0 1551 ± 1.178
1800
1700
1600
1500
1400

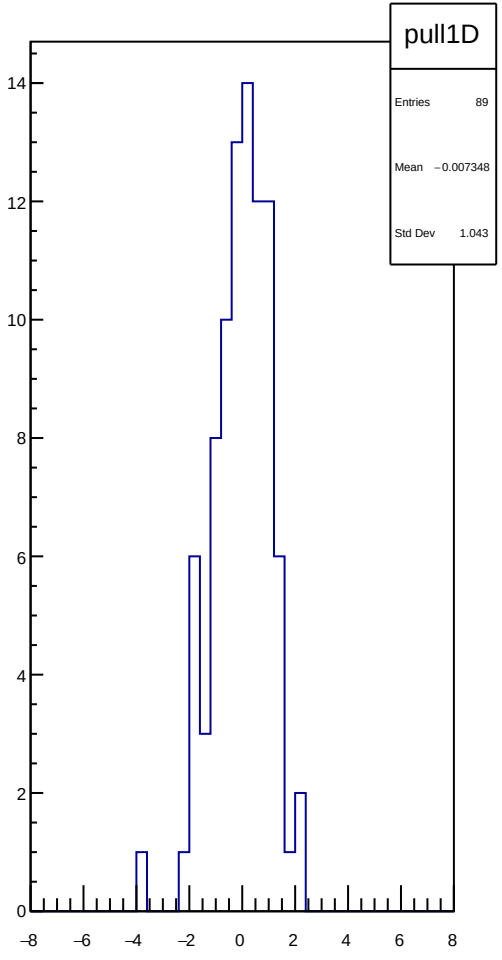

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 96.8 / 88
p0 −4468 ± 9850
pull
Entries 89
Mean −186.9
Std Dev 0
pull1D
Entries 89
Mean −0.00735
Std Dev 1.043

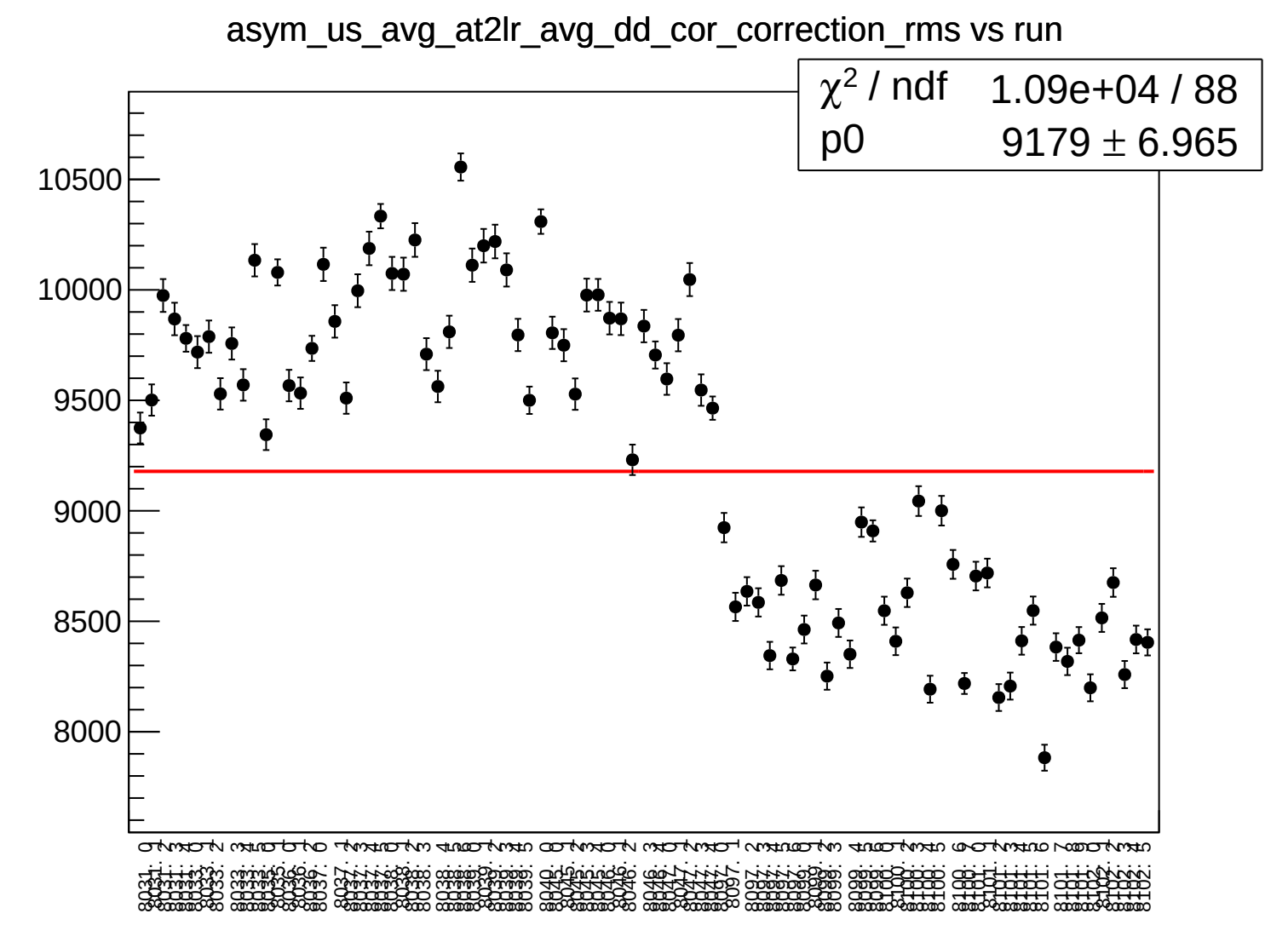

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.09e+04 / 88
p0 9179 ± 6.965
10500
10000
9500
9000
8500
8000

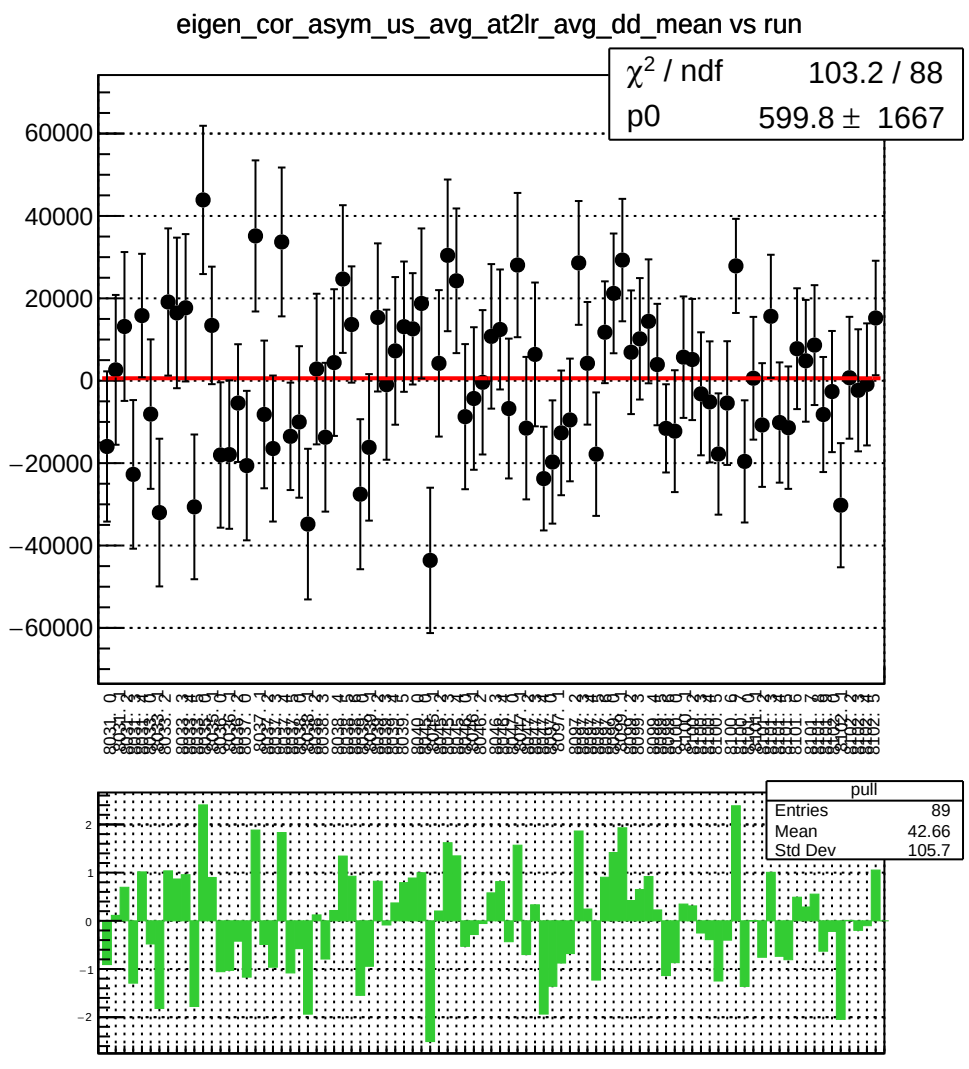

cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 103.2 / 88
p0 599.8 ± 1667
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 42.66
Std Dev 105.7
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.004877
Std Dev 1.077
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

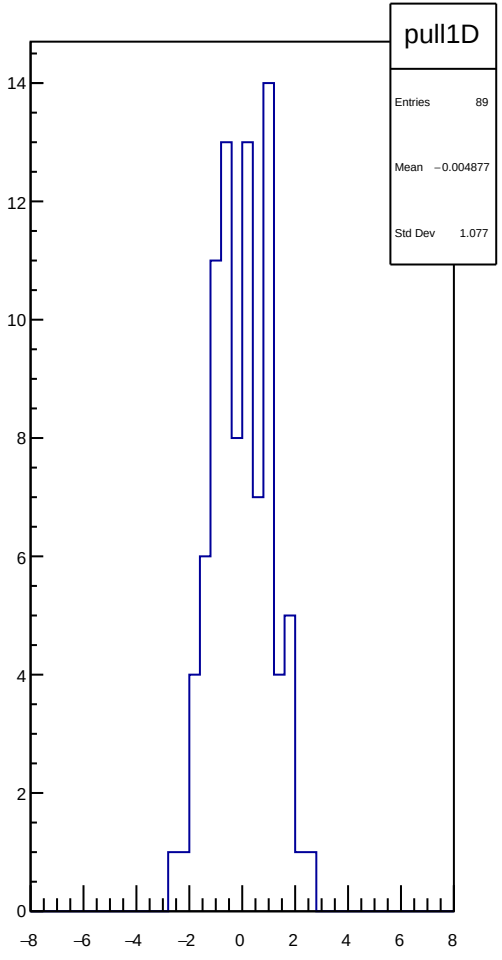

cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 1.604e+04 / 88
p0 1551 ± 1.178
1800
1700
1600
1500
1400

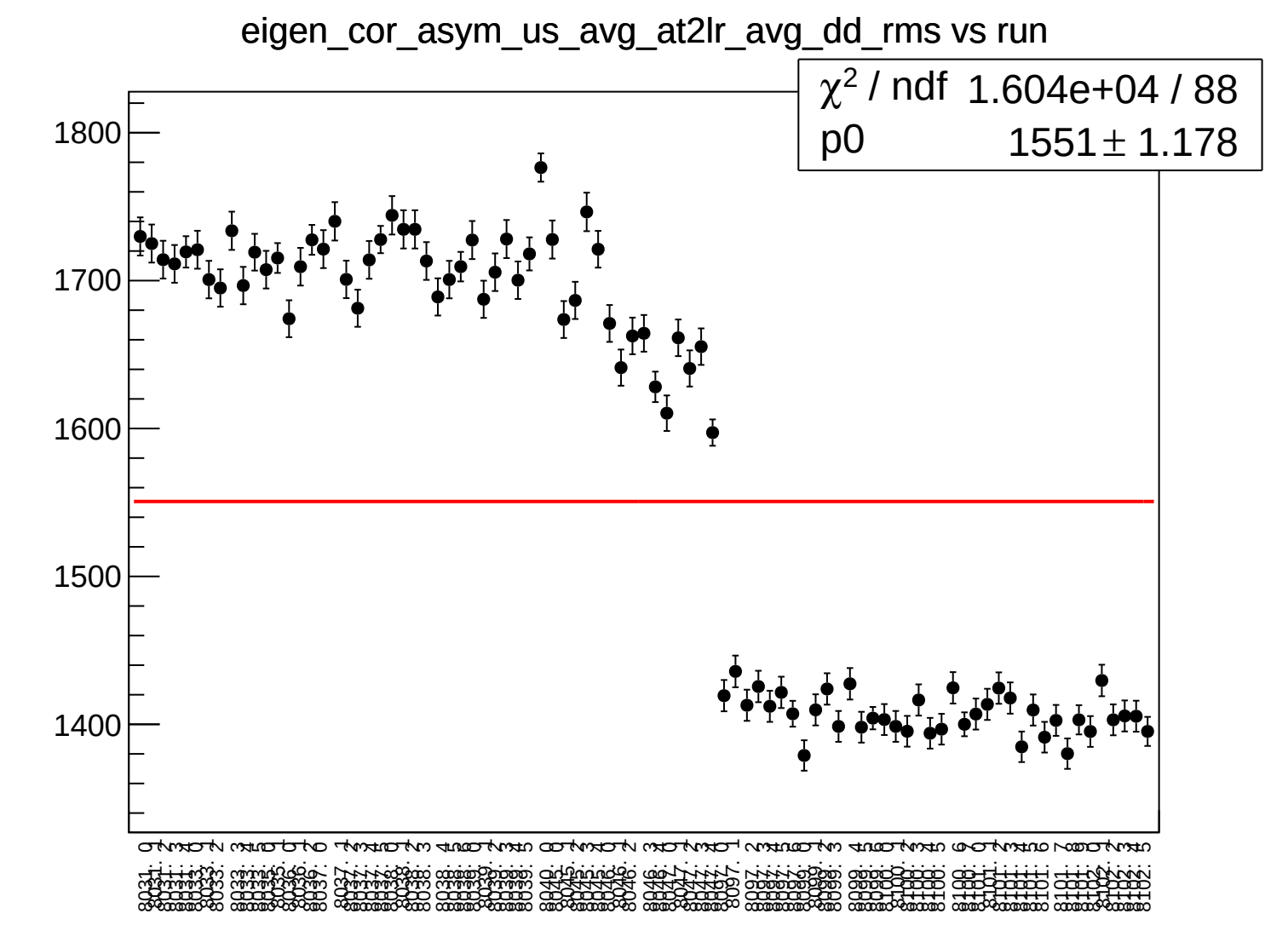

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 96.8 / 88
p0 −4468 ± 9850
pull
Entries 89
Mean −187
Std Dev 0

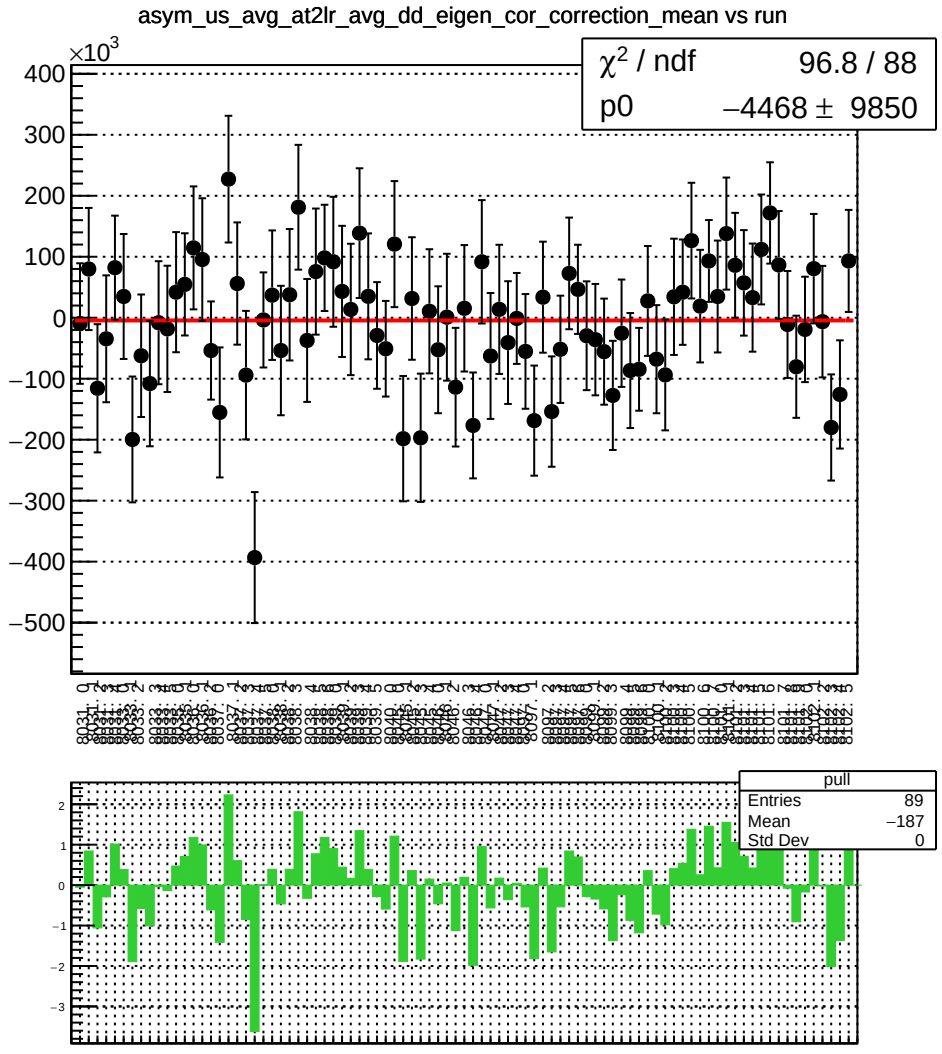

pull1D
Entries 89
Mean −0.007348
Std Dev 1.043

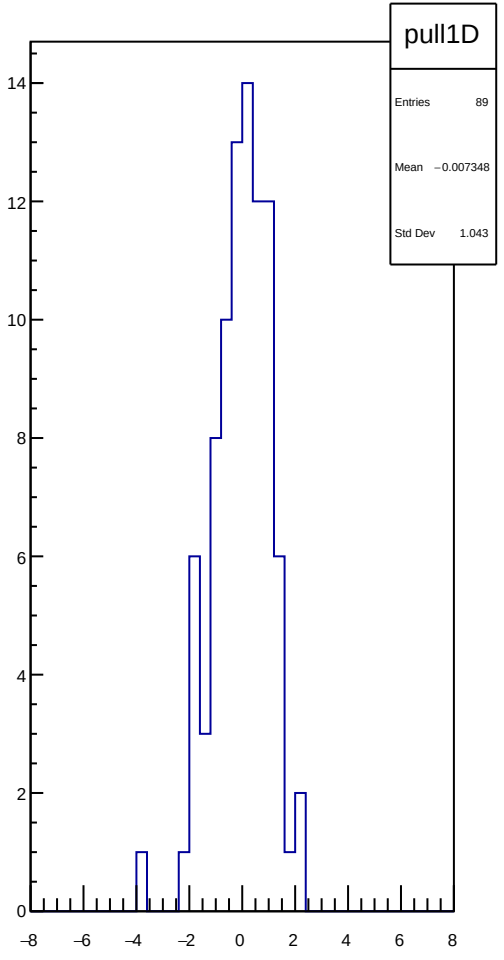

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.09e+04 / 88
p0 9179 ± 6.965
10500
10000
9500
9000
8500
8000

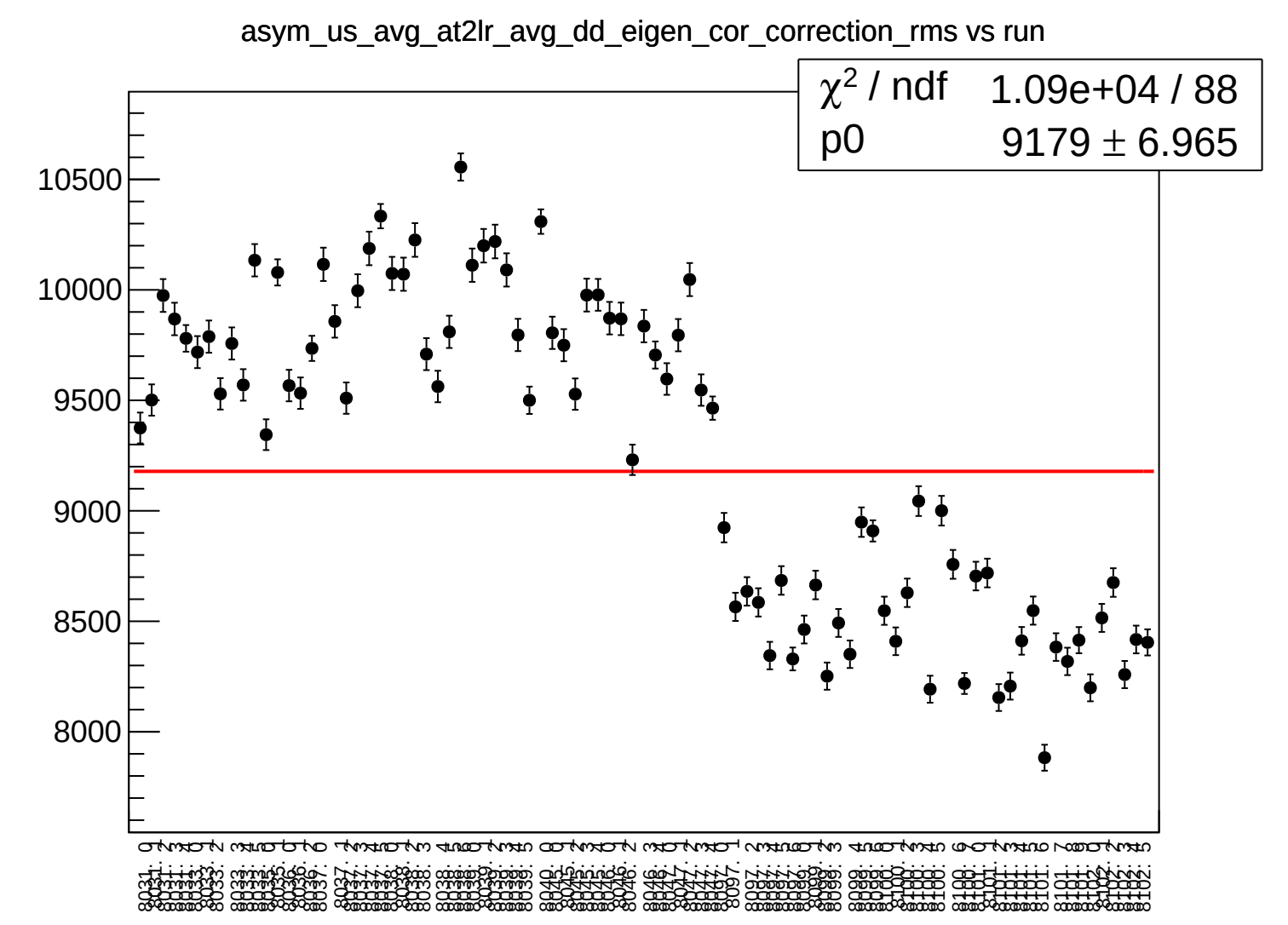

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 103.2 / 88
p0 599.8 ± 1667
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 42.66
Std Dev 105.7
2
1
0
−1
−2

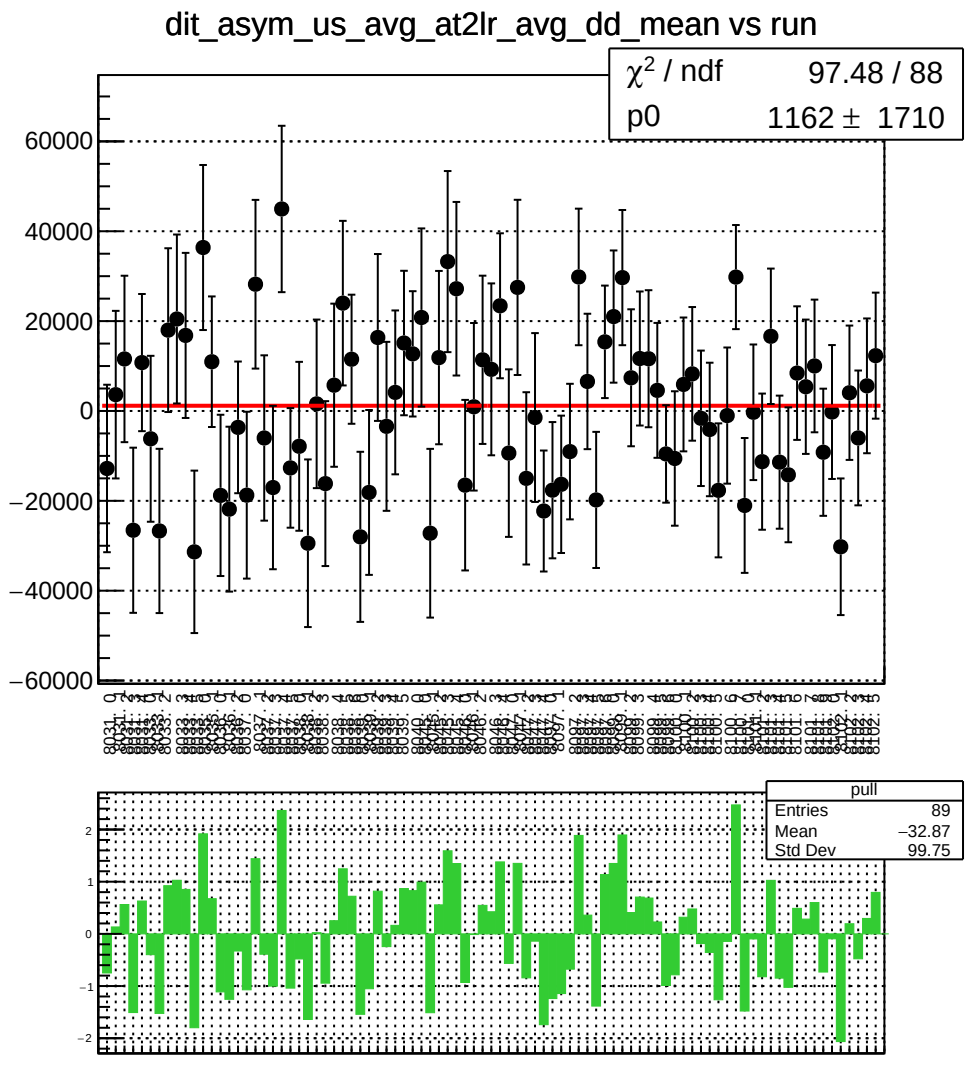

pull1D
Entries 89
Mean −0.004877
Std Dev 1.077
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

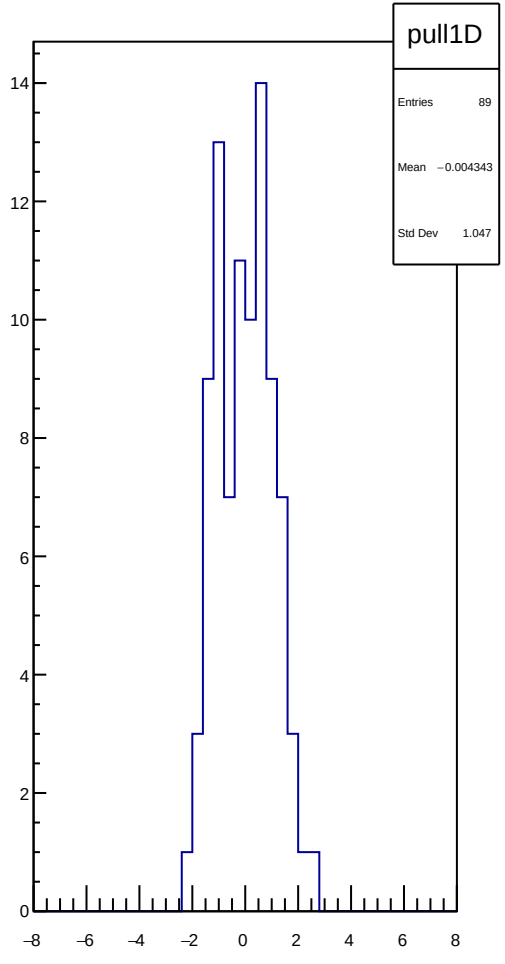

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 1.604e+04 / 88
p0 1551 ± 1.178
1800
1700
1600
1500
1400

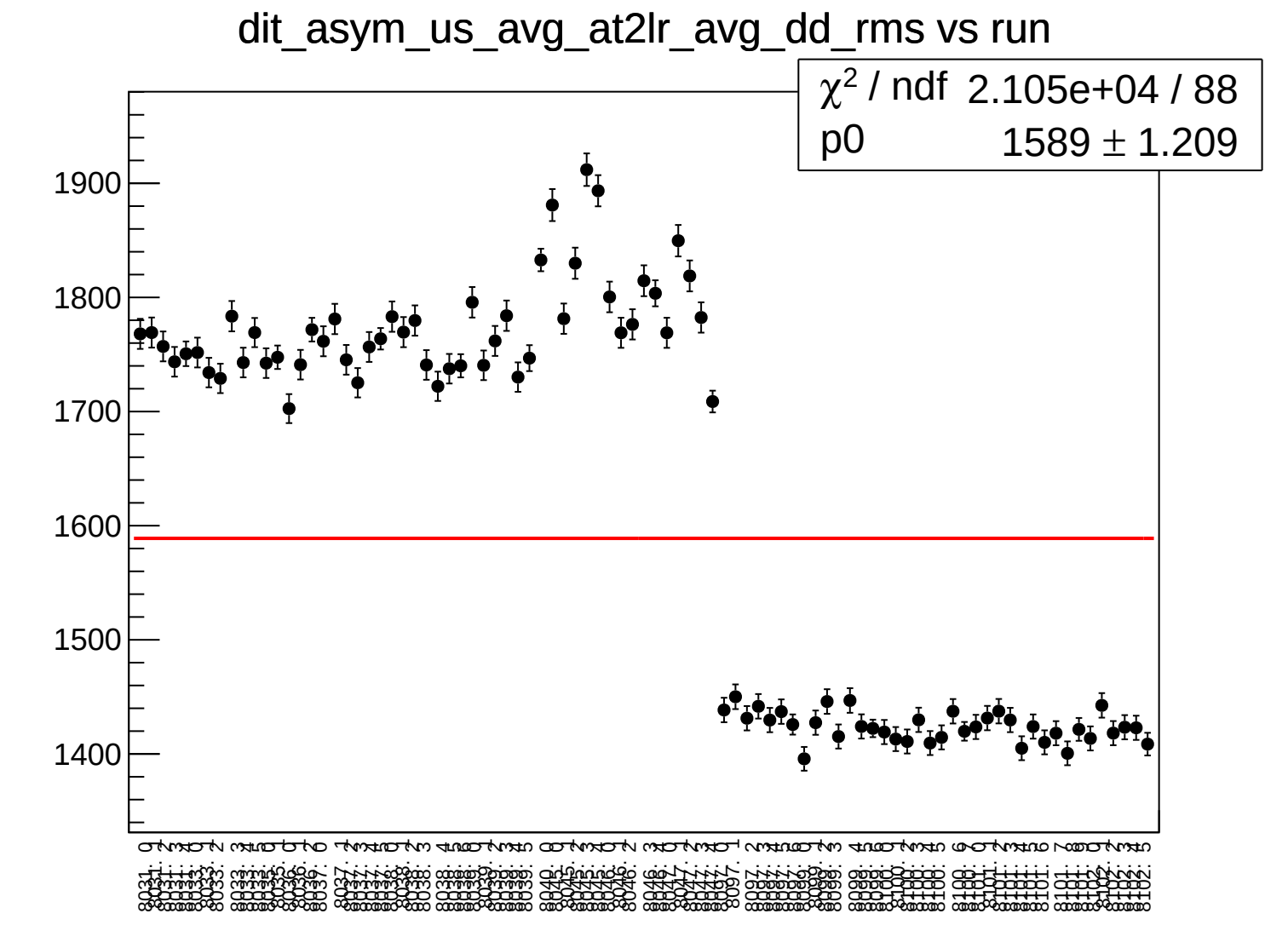

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 96.8 / 88
p0 −4468 ± 9850
pull
Entries 89
Mean −187
Std Dev 0

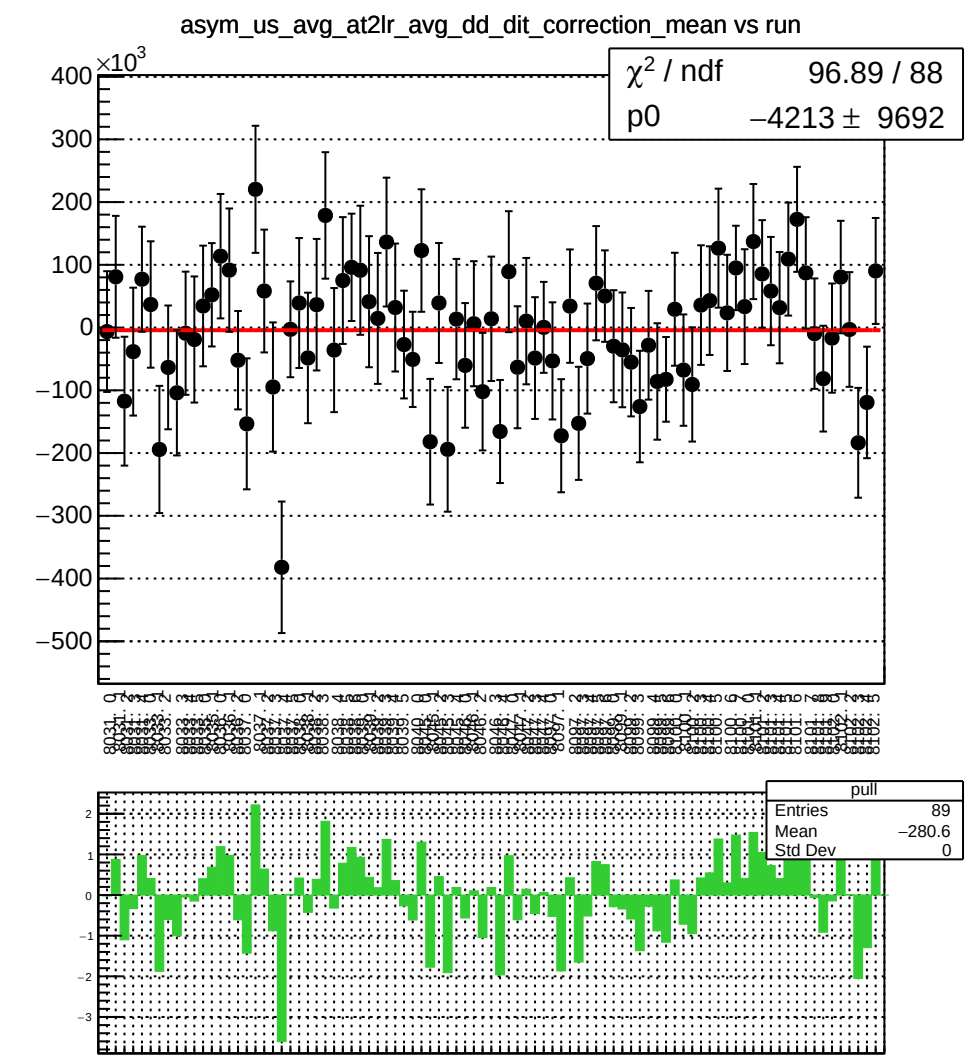

pull1D
Entries 89
Mean −0.007348
Std Dev 1.043

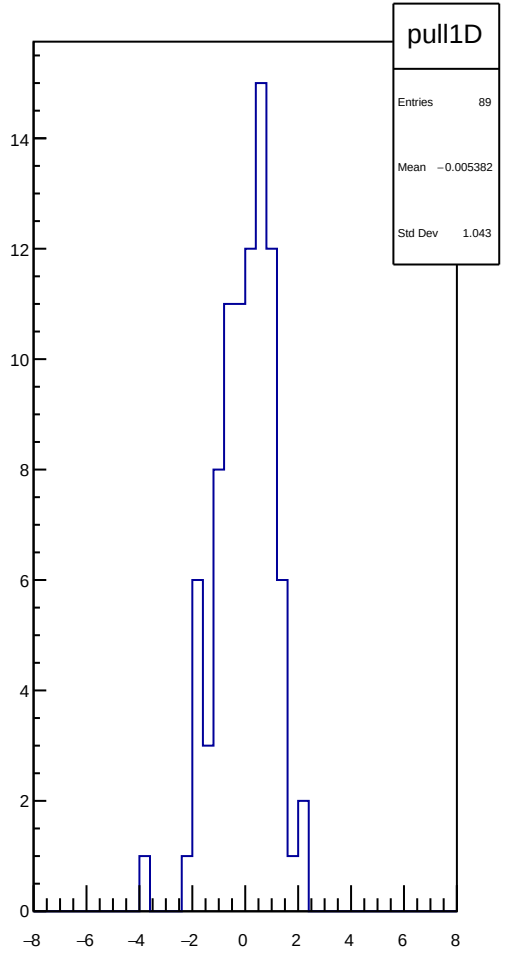

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.09e+04 / 88
p0 9179 ± 6.965
10500
10000
9500
9000
8500
8000

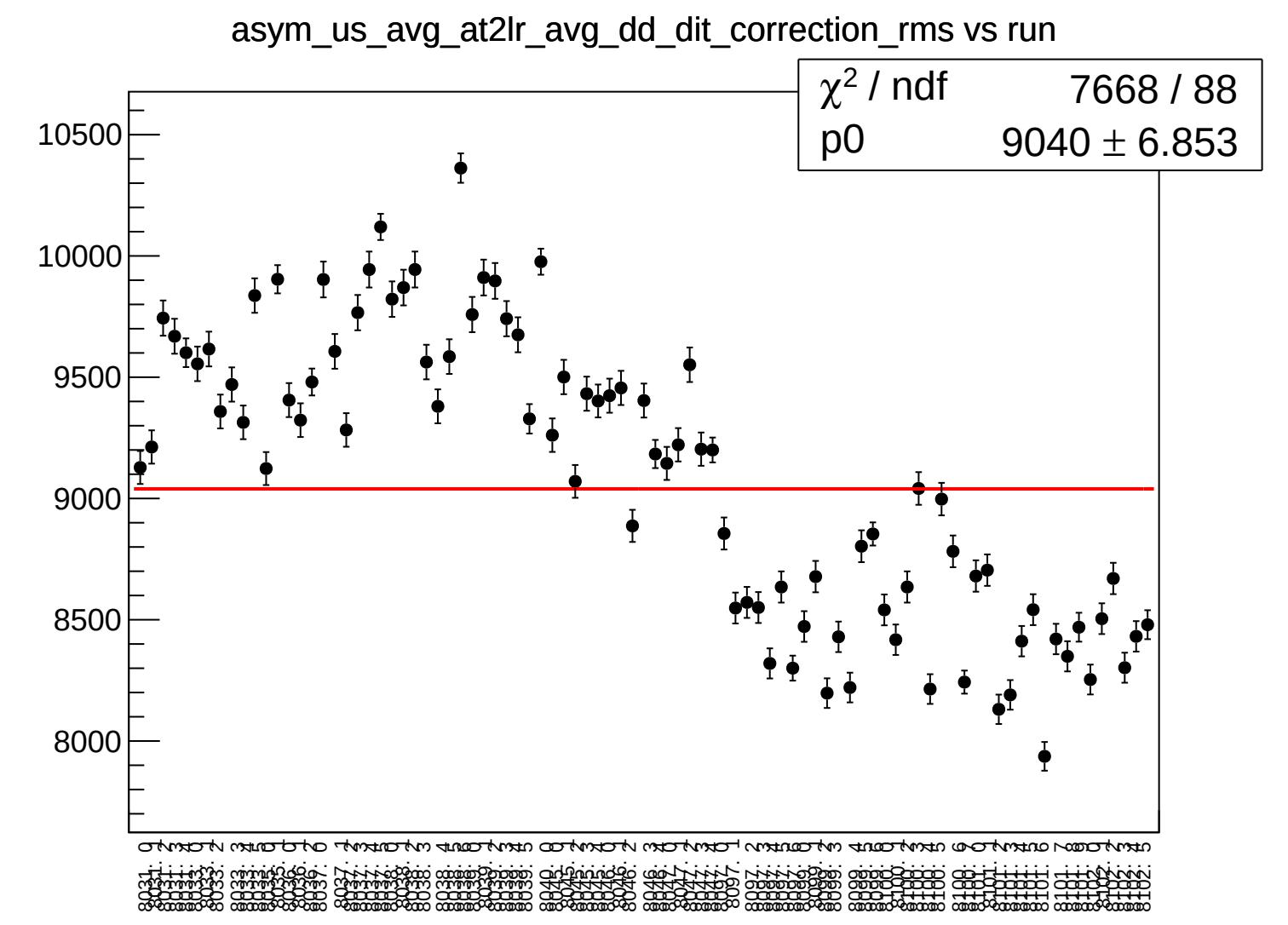

dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 97.48 / 88
p0 1162 ± 1710
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −32.87
Std Dev 99.75
2
1
0
−1
−2

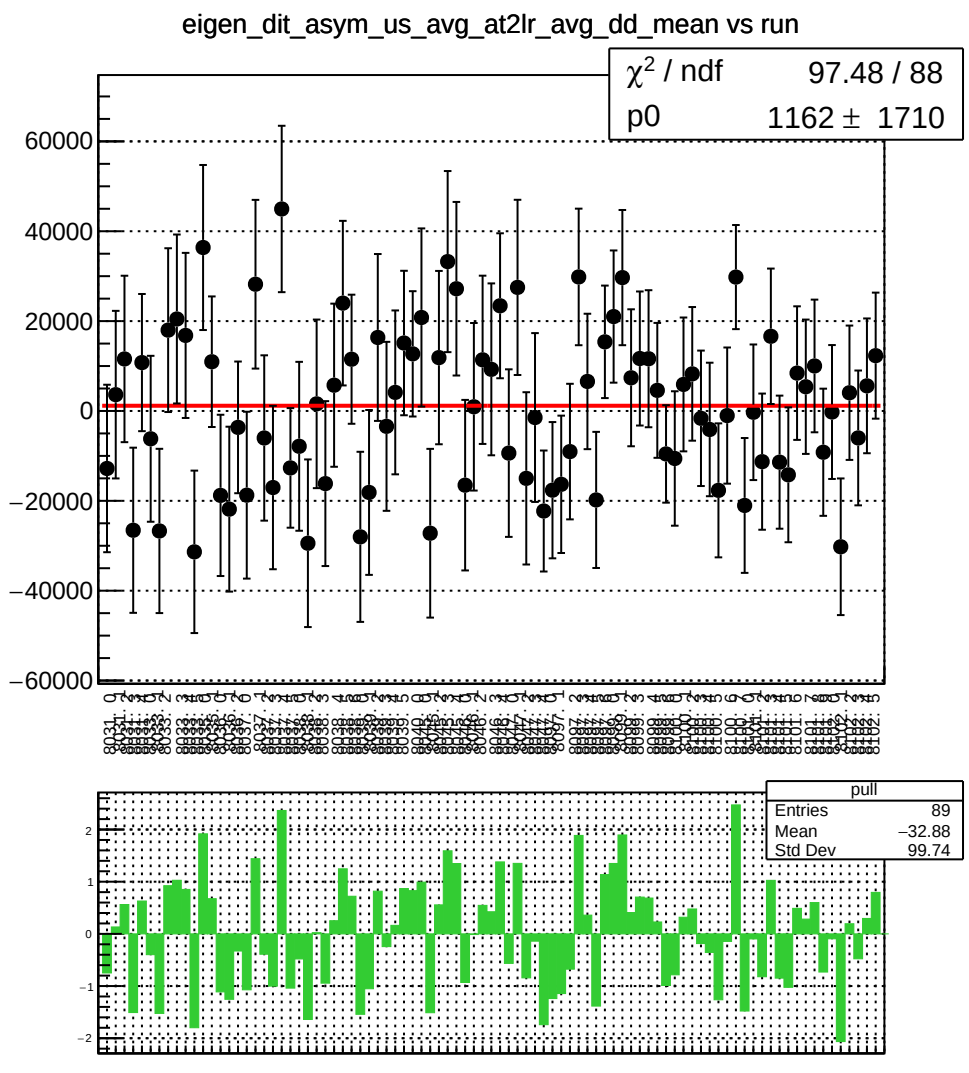

pull1D
Entries 89
Mean −0.004343
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

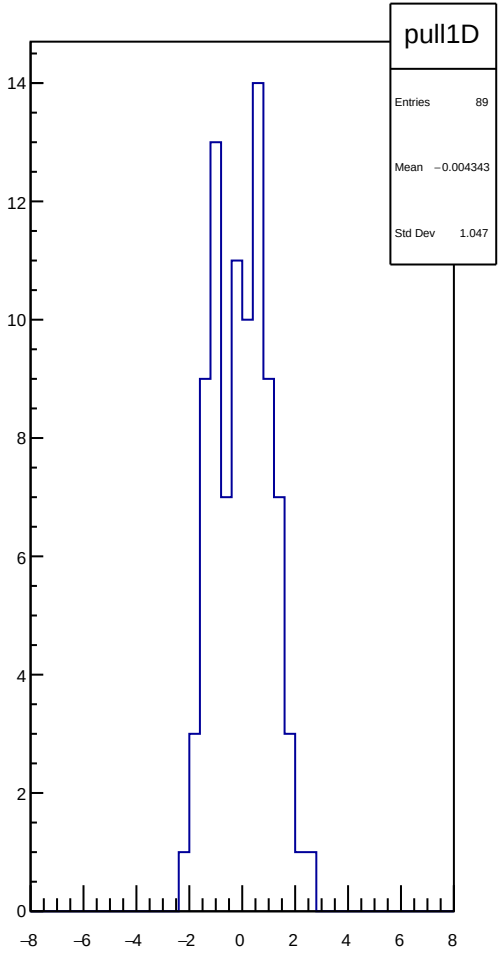

dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 2.105e+04 / 88
p0 1589 ± 1.209
1900
1800
1700
1600
1500
1400

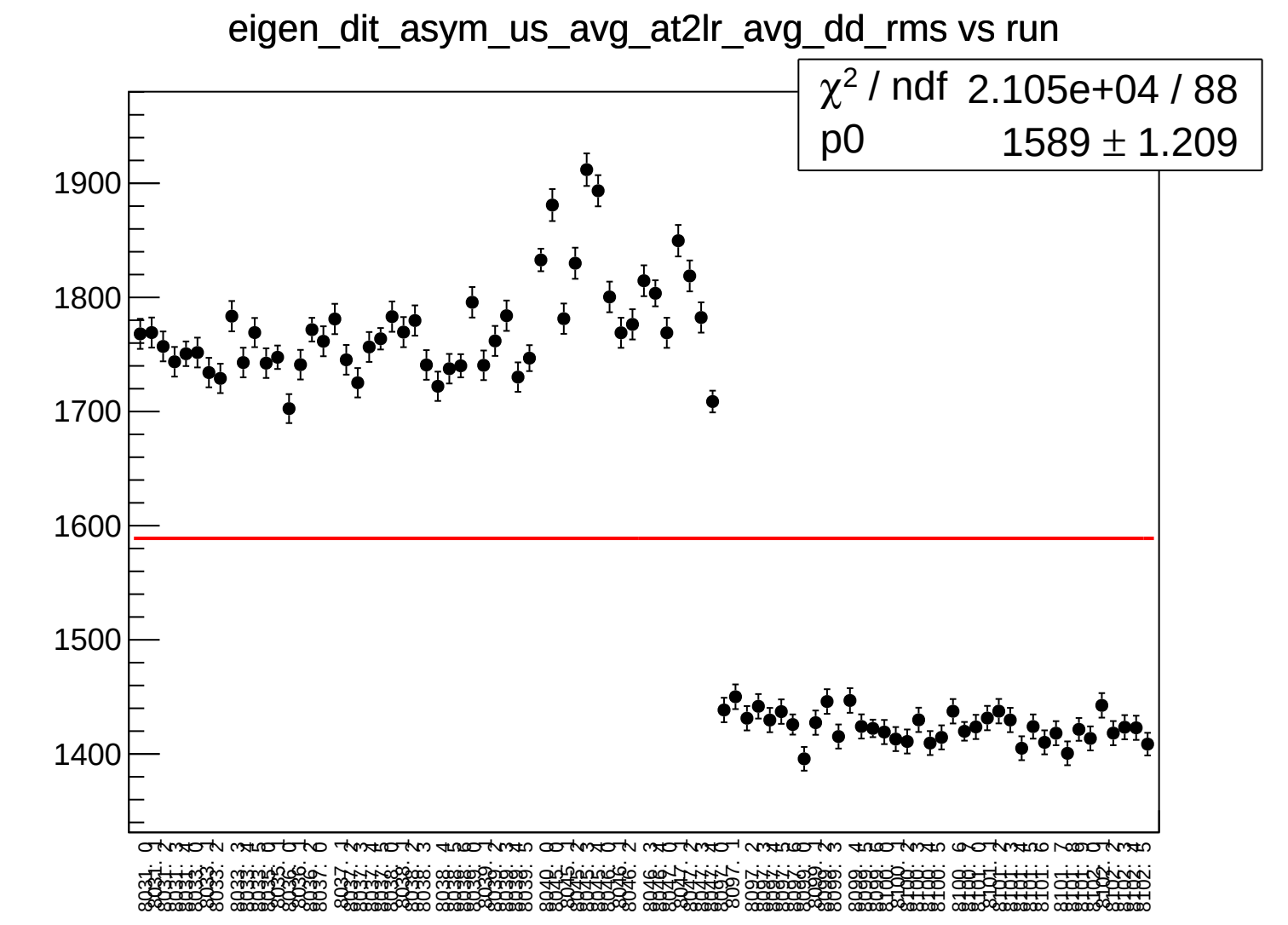

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 96.89 / 88
p0 −4213 ± 9692
pull
Entries 89
Mean −280.6
Std Dev 0

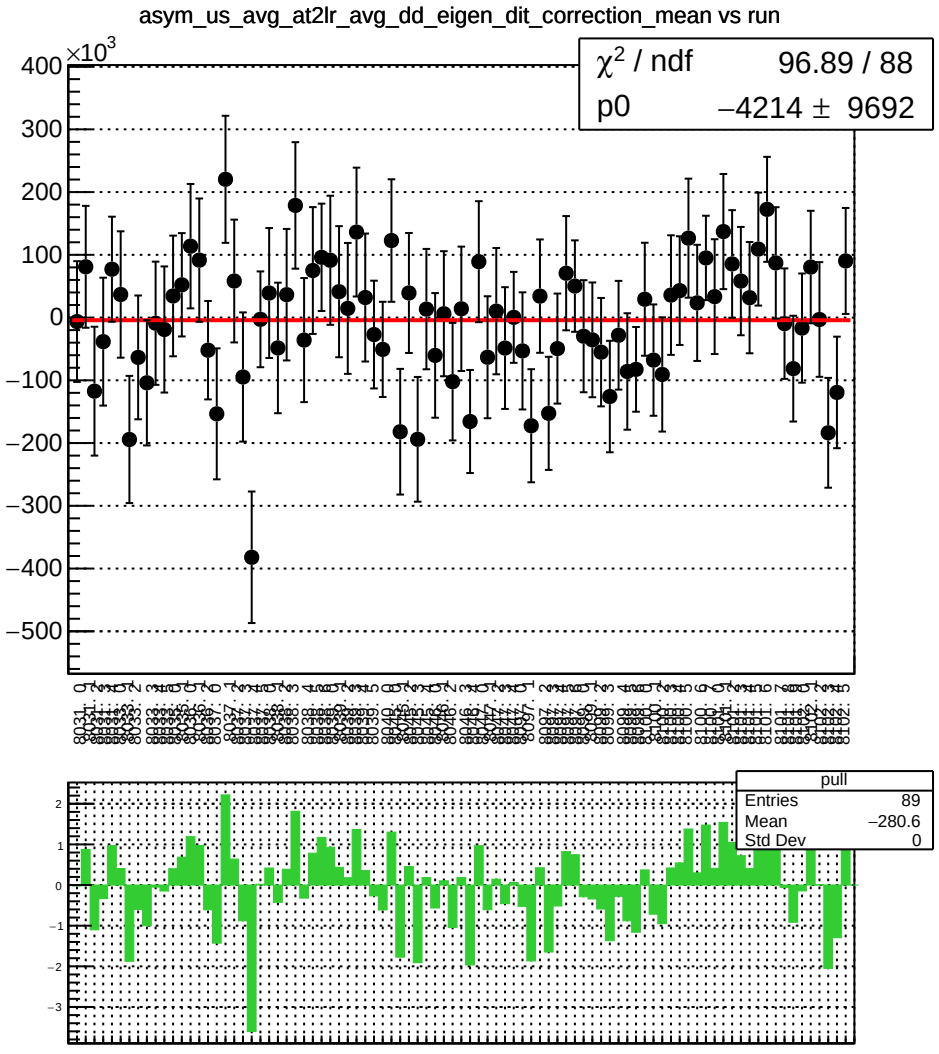

pull1D
Entries 89
Mean −0.005382
Std Dev 1.043

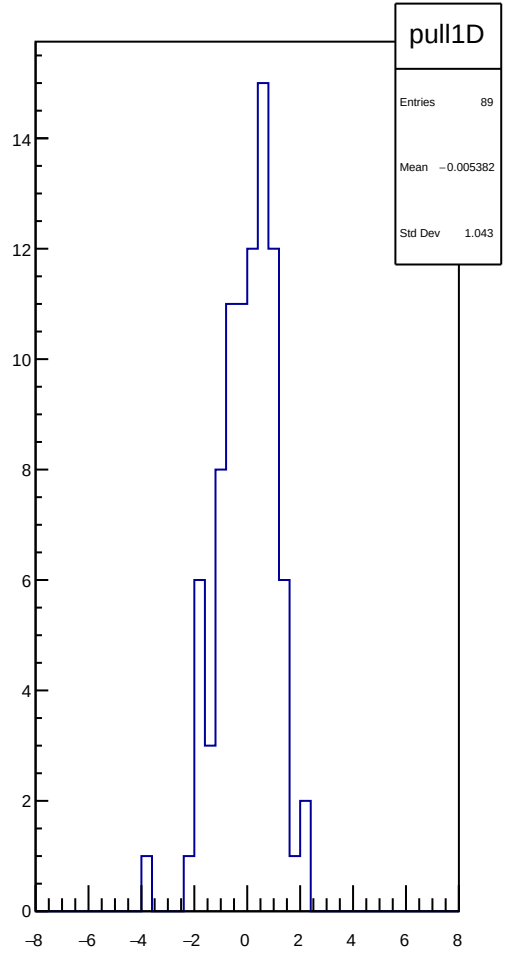

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 7668 / 88
p0 9040 ± 6.853
10500
10000
9500
9000
8500
8000

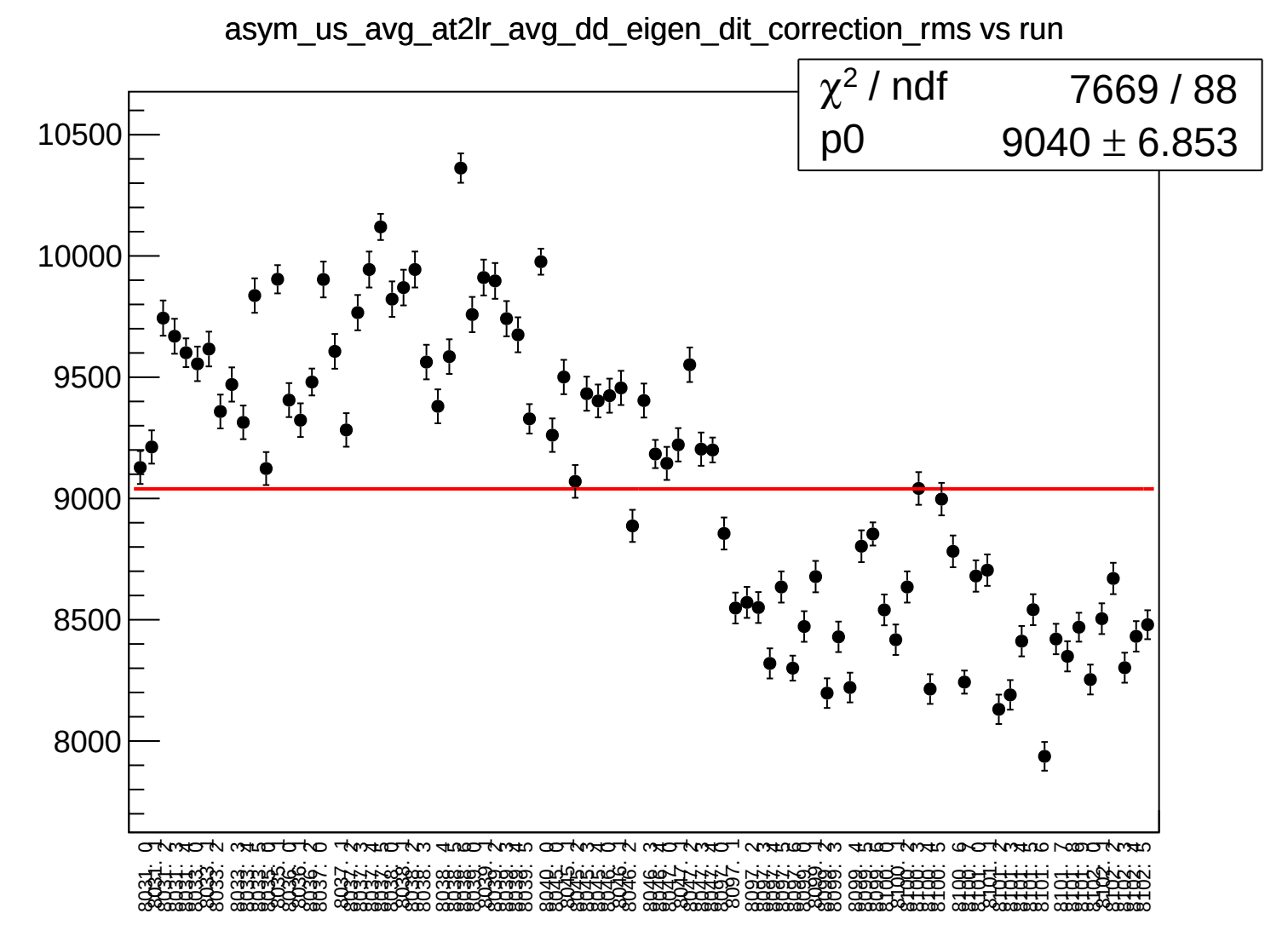

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 97.48 / 88
p0 1162 ± 1710
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −32.88
Std Dev 99.74
2
1
0
−1
−2

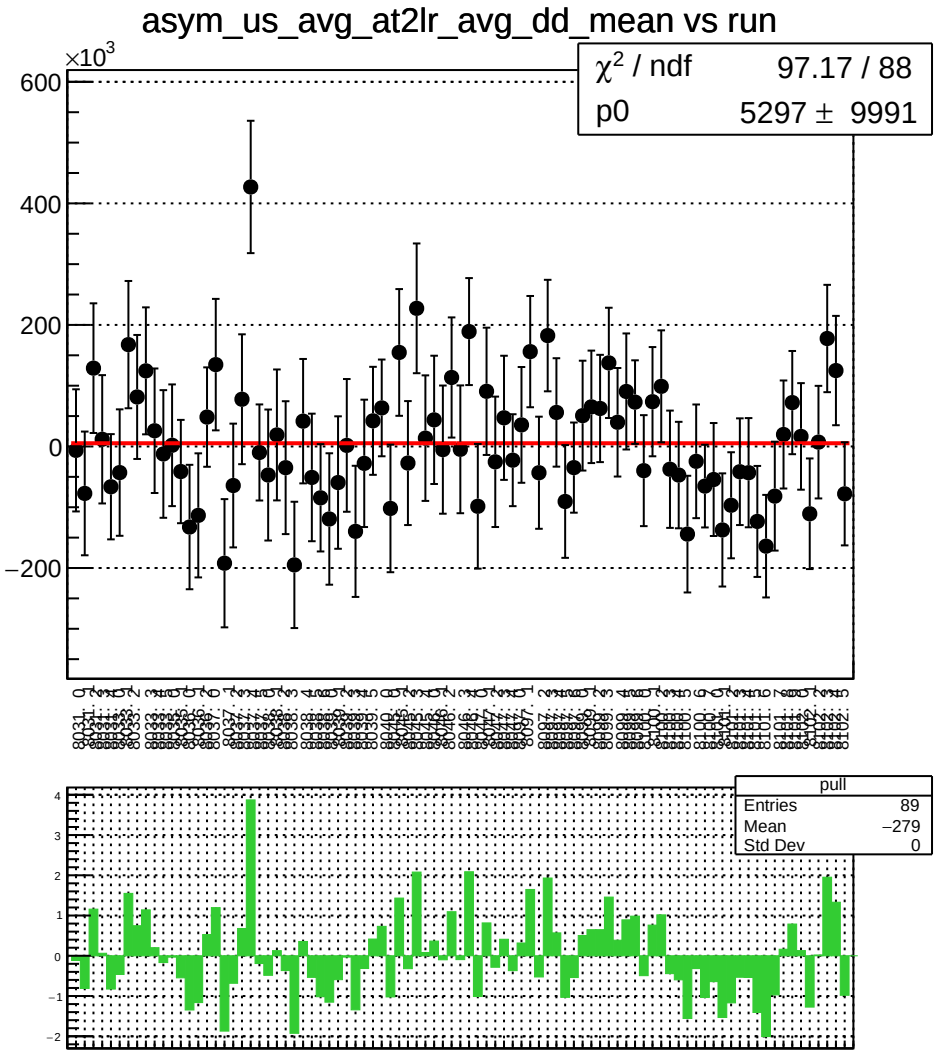

pull1D
Entries 89
Mean −0.004343
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

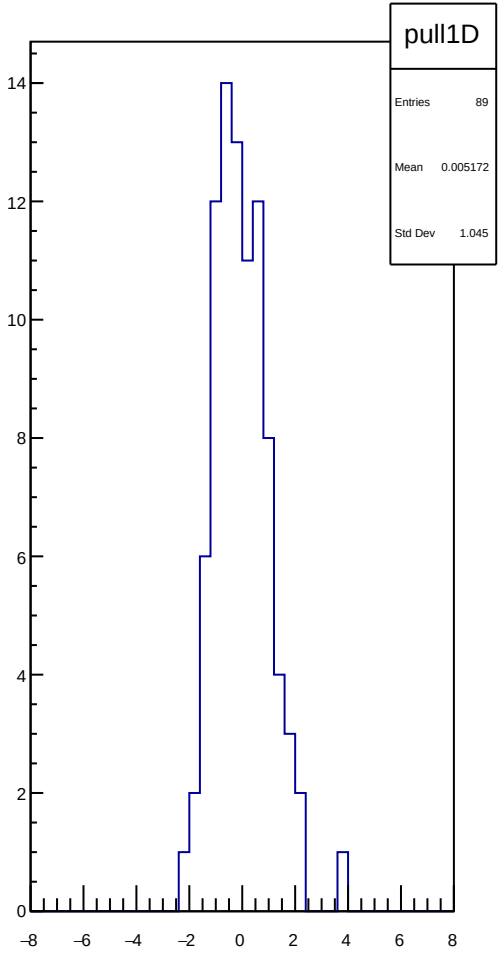

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 2.105e+04 / 88
p0 1589 ± 1.209
1900
1800
1700
1600
1500
1400

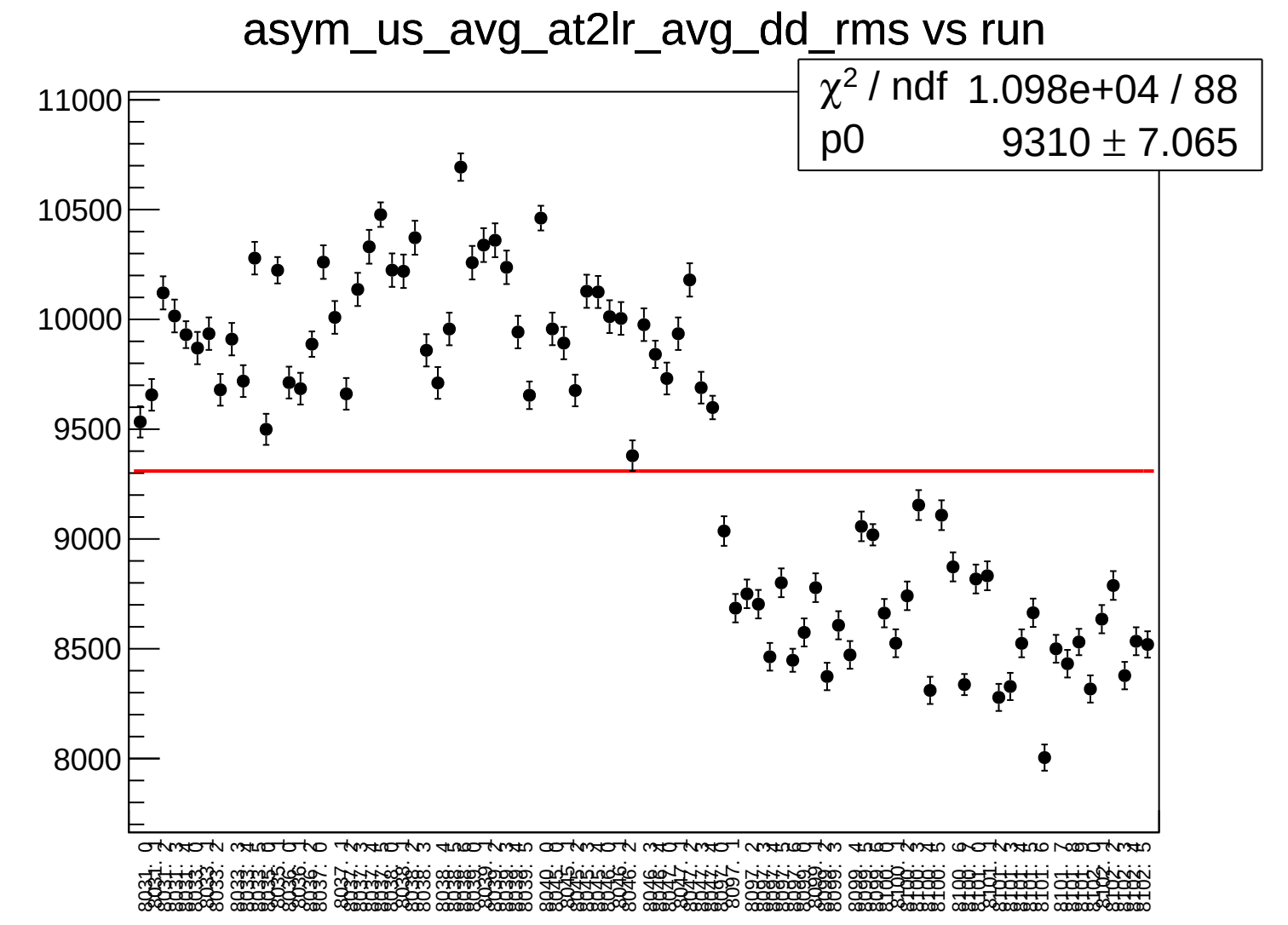

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.89 / 88
p0 −4214 ± 9692
pull
Entries 89
Mean −280.6
Std Dev 0

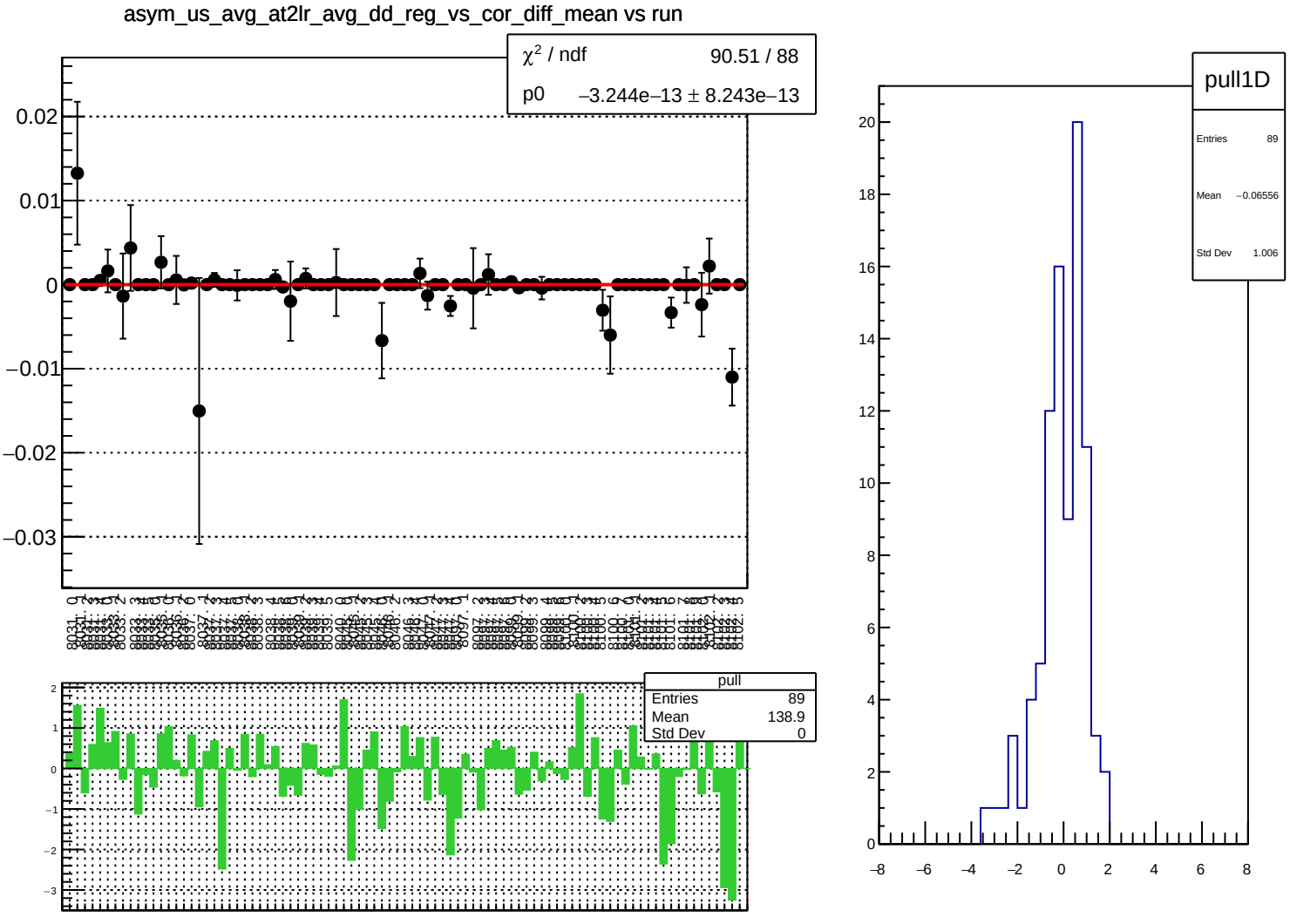

pull1D
Entries 89
Mean −0.005382
Std Dev 1.043

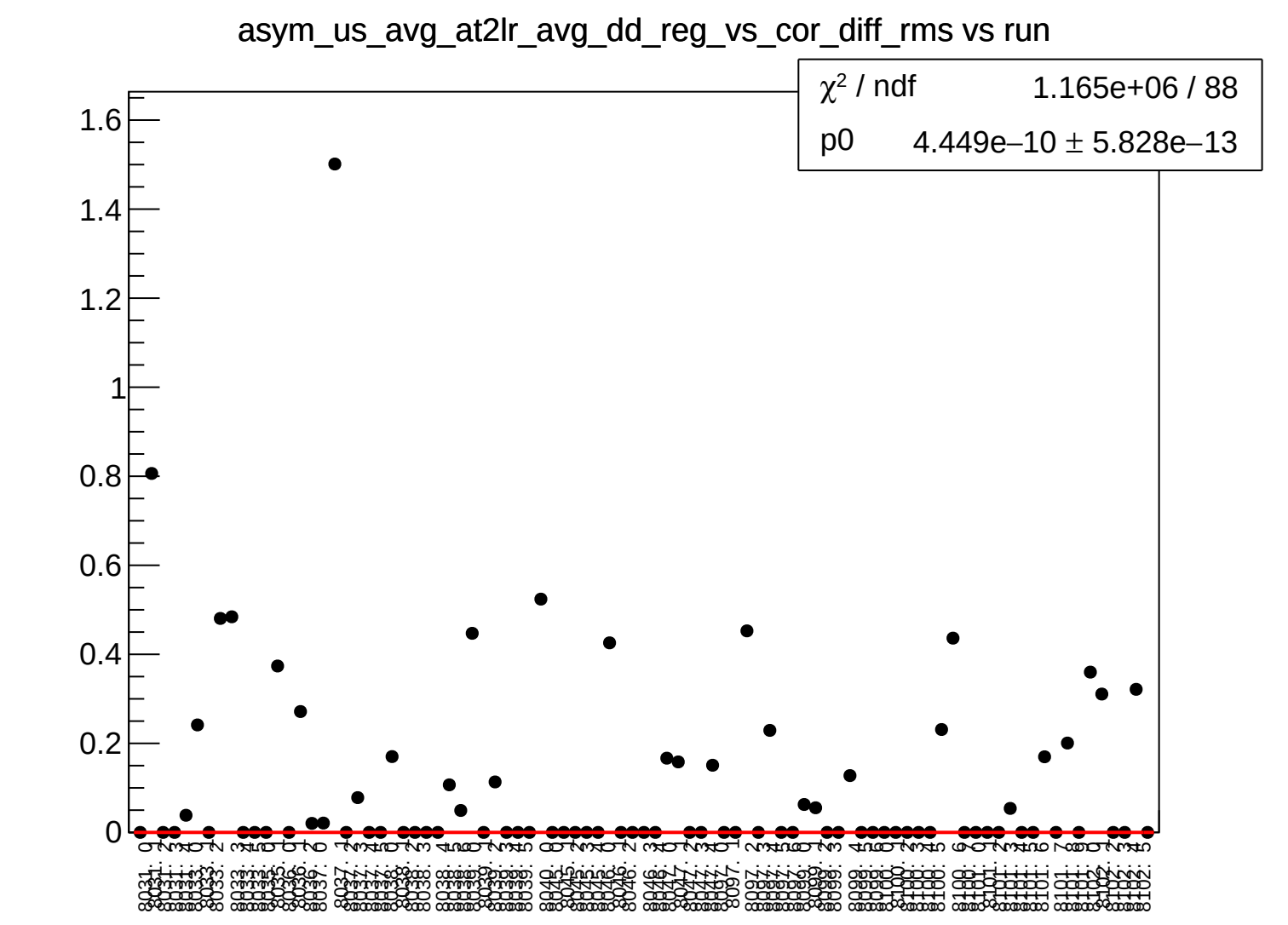

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 7669 / 88
p0 9040 ± 6.853
10500
10000
9500
9000
8500
8000

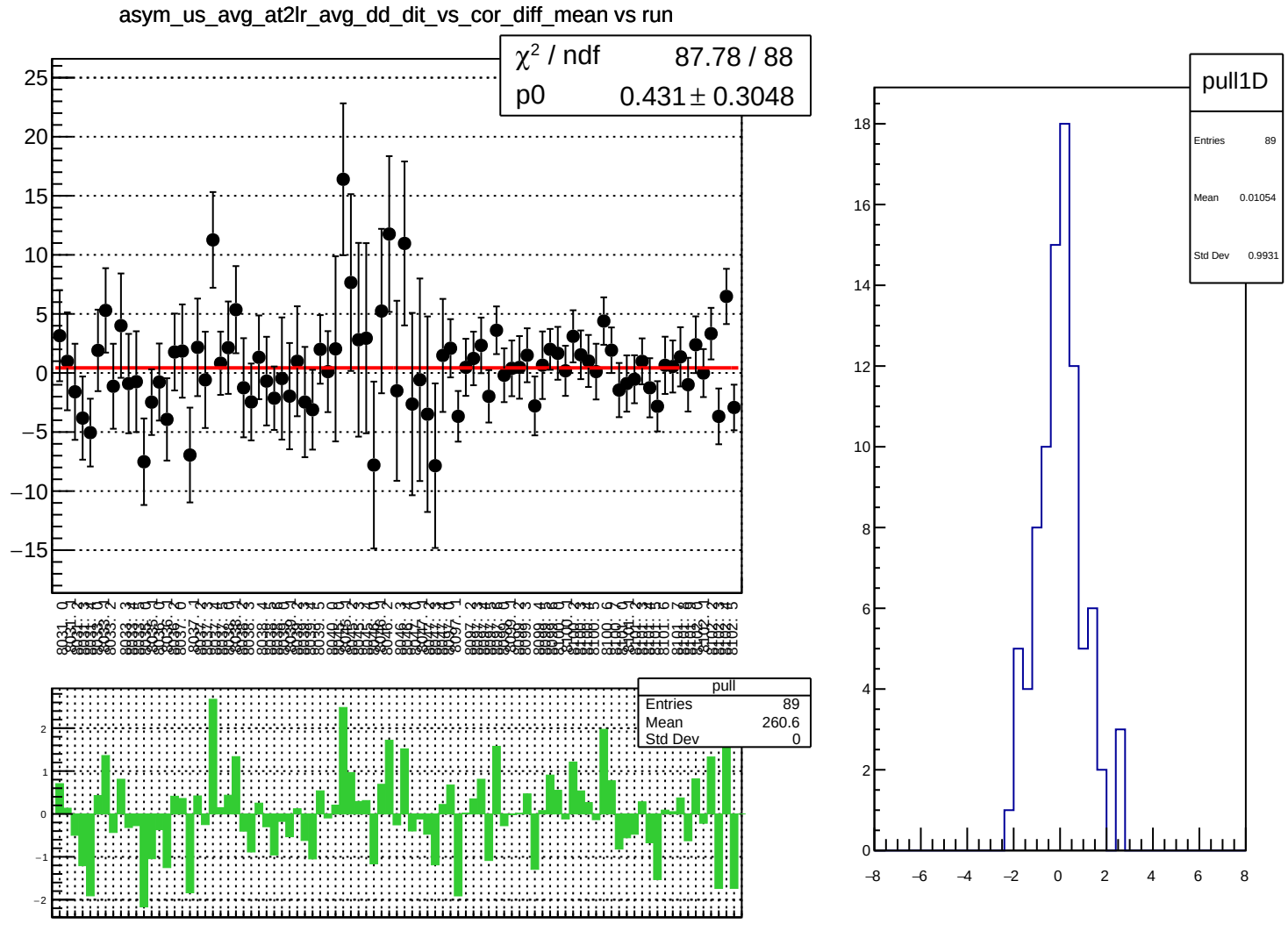

asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
600
400
200
0
−200
χ² / ndf 97.17 / 88
p0 5297 ± 9991
pull
Entries 89
Mean −279
Std Dev 0
4
3
2
1
0
−1
−2

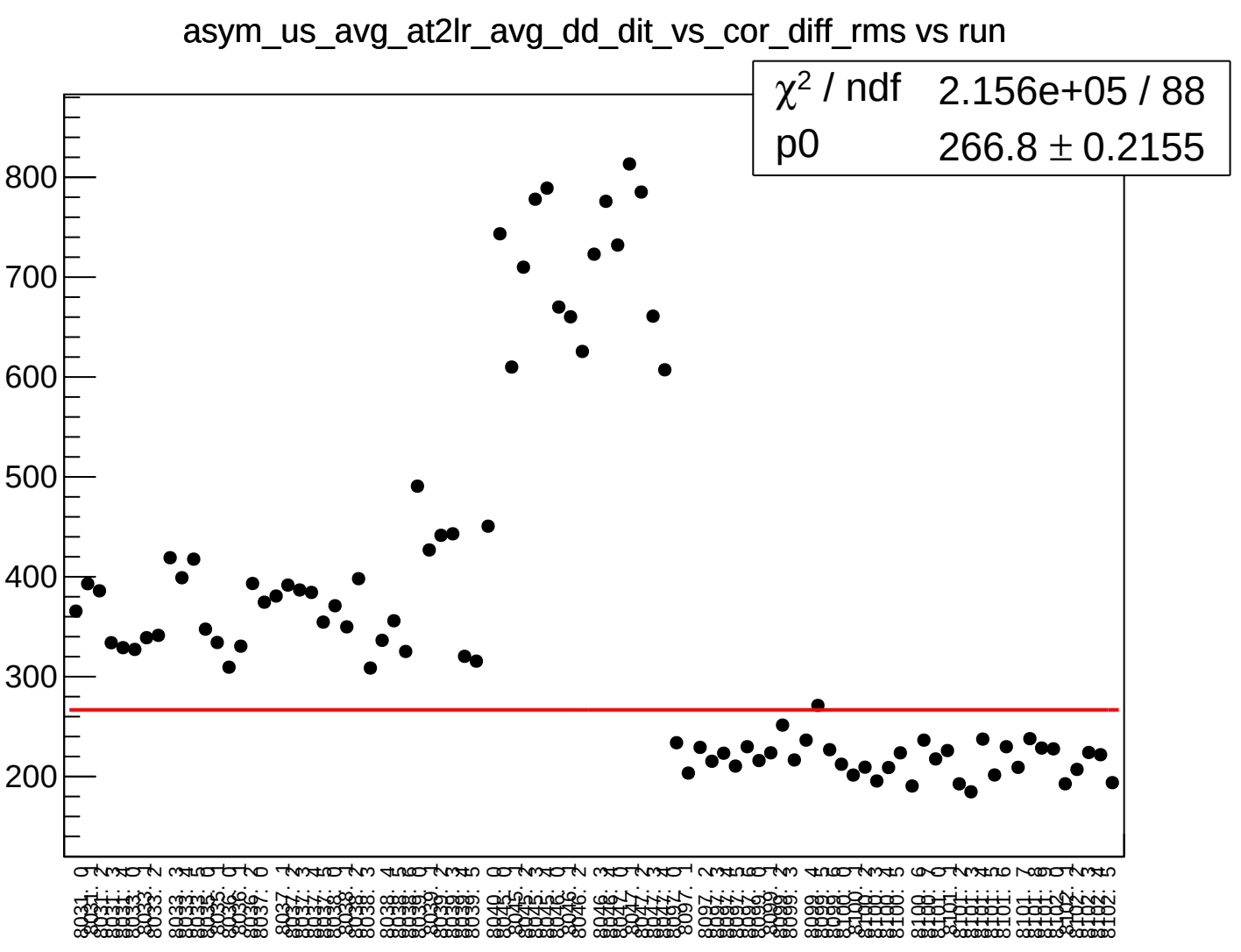

pull1D
Entries 89
Mean 0.005172
Std Dev 1.045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

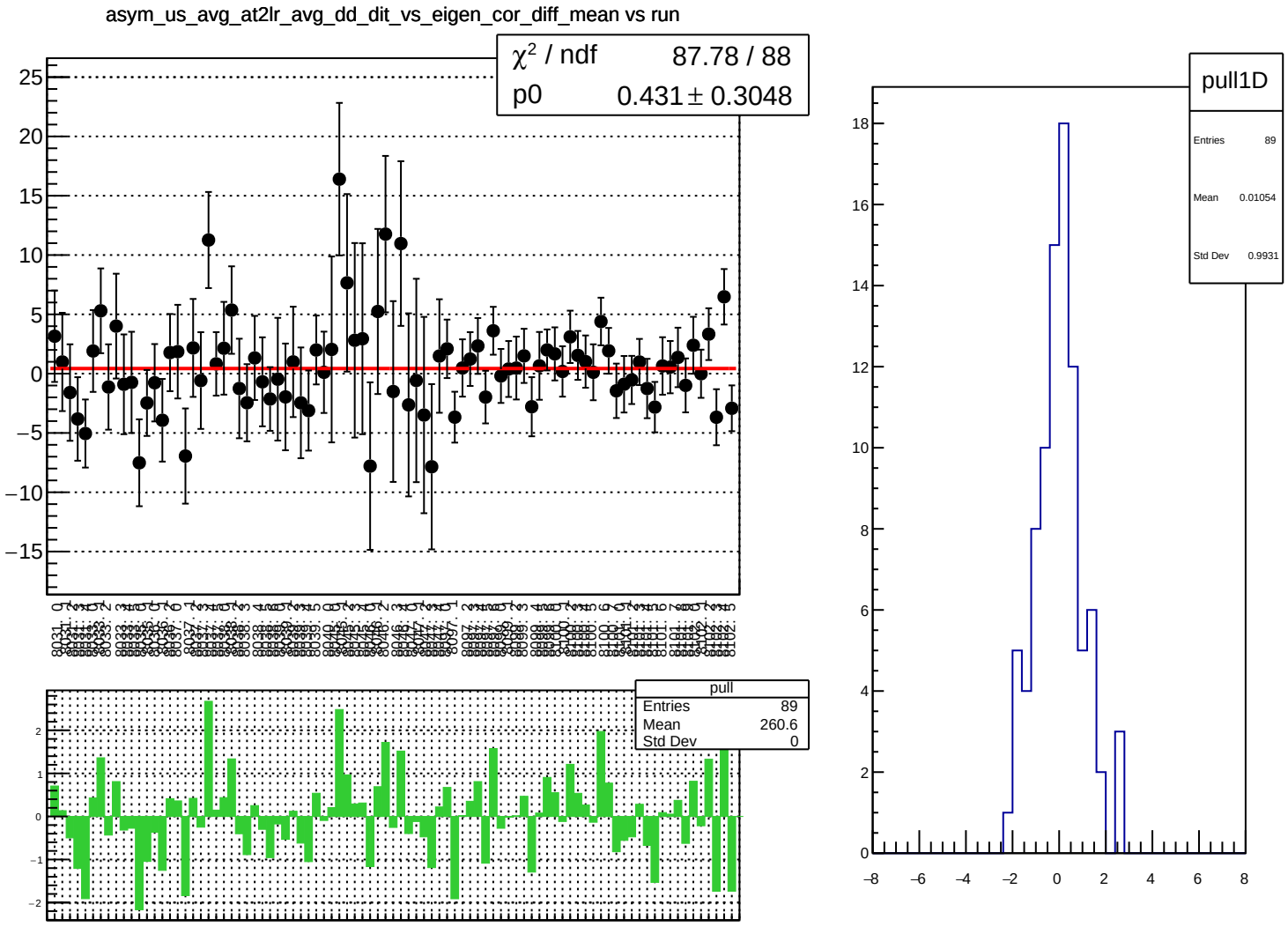

asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 1.098e+04 / 88
p0 9310 ± 7.065
11000
10500
10000
9500
9000
8500
8000

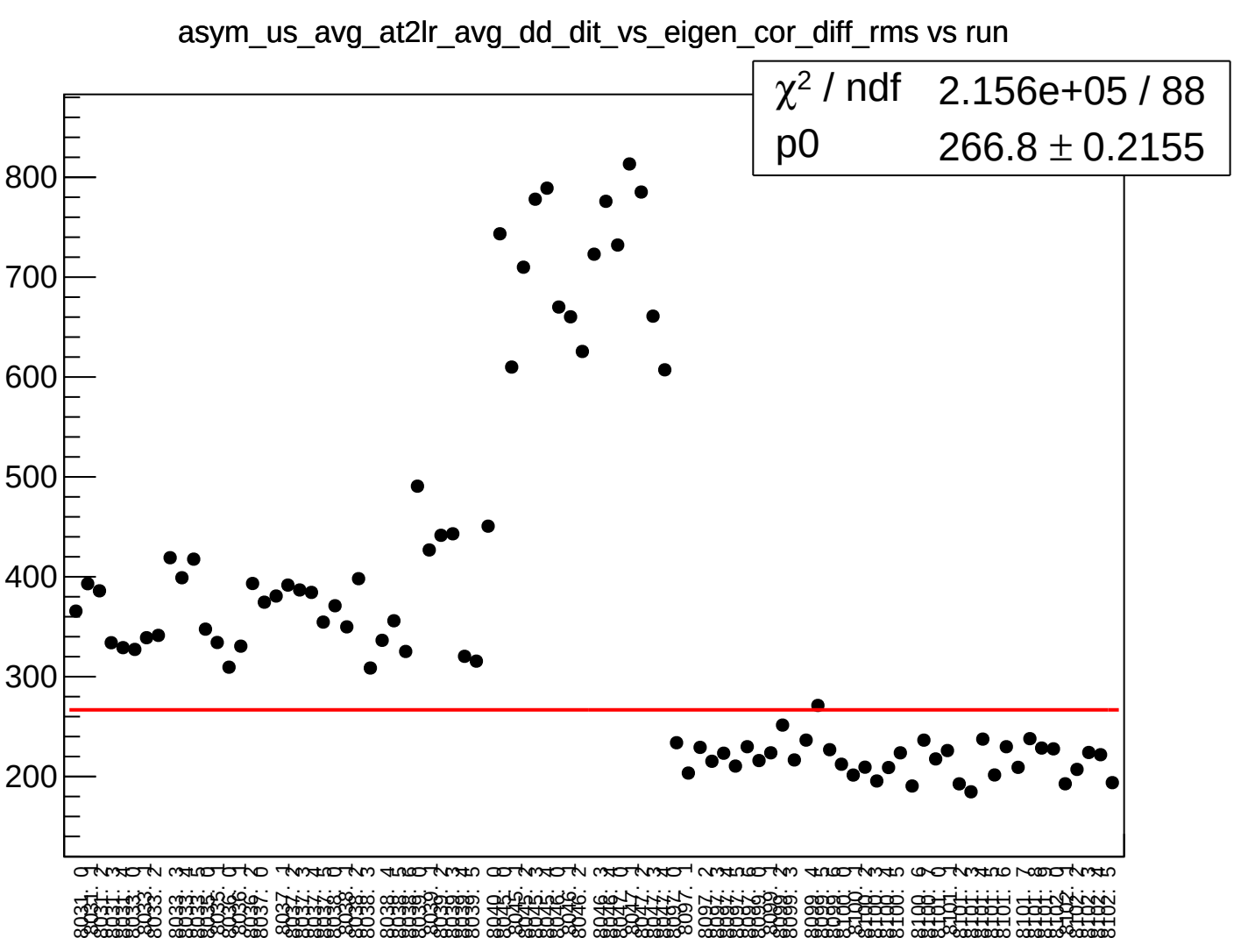

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 90.51 / 88
p0 −3.244e−13 ± 8.243e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 89
Mean 138.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.06556
Std Dev 1.006
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

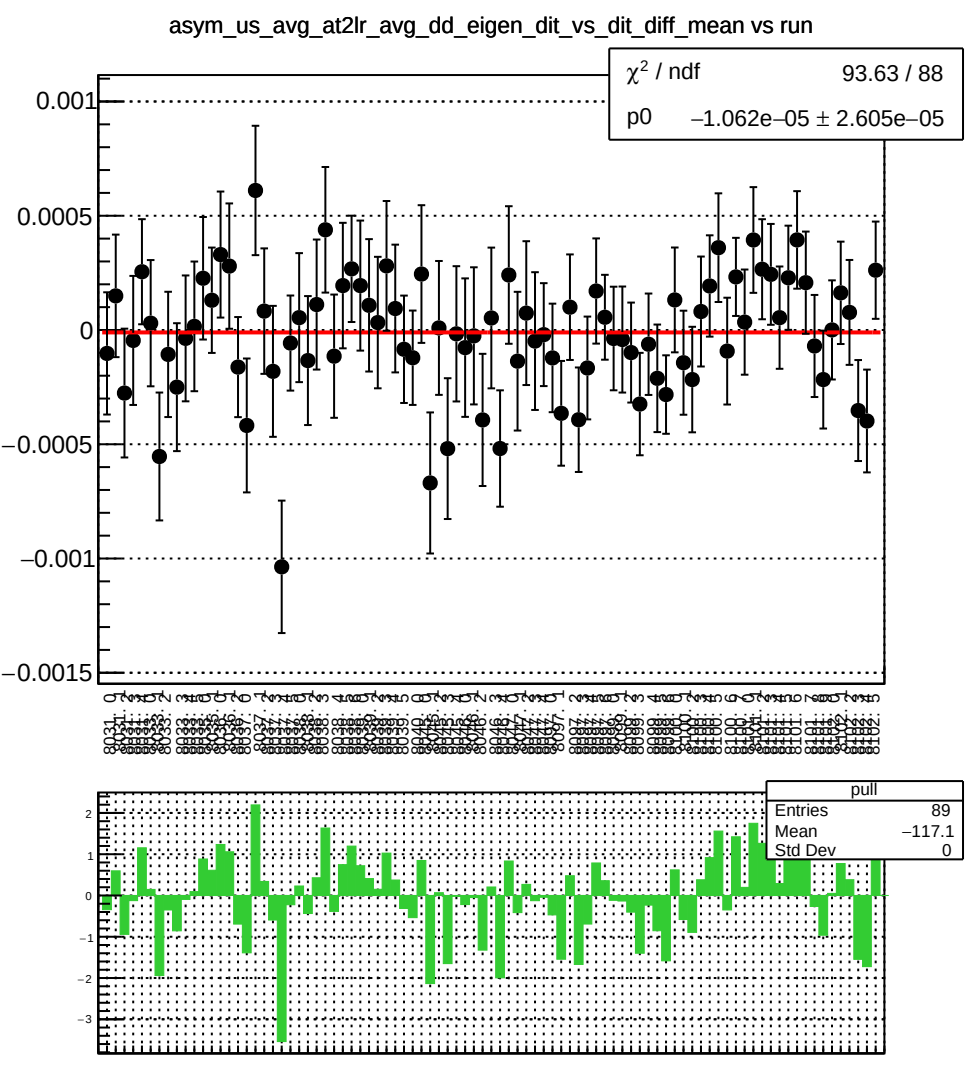

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.165e+06 / 88
p0 4.449e−10 ± 5.828e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

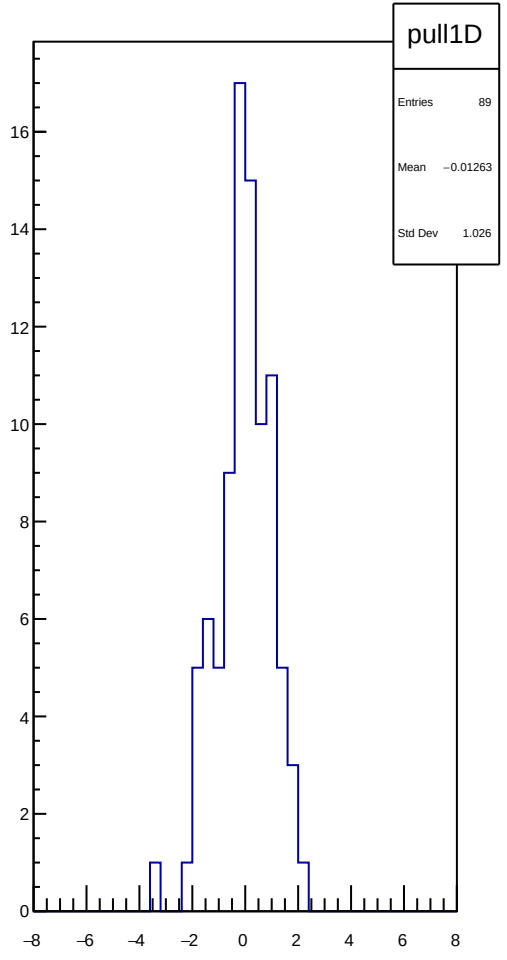

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.78 / 88
p0 0.431 ± 0.3048
pull
Entries 89
Mean 260.6
Std Dev 0
pull1D
Entries 89
Mean 0.01054
Std Dev 0.9931

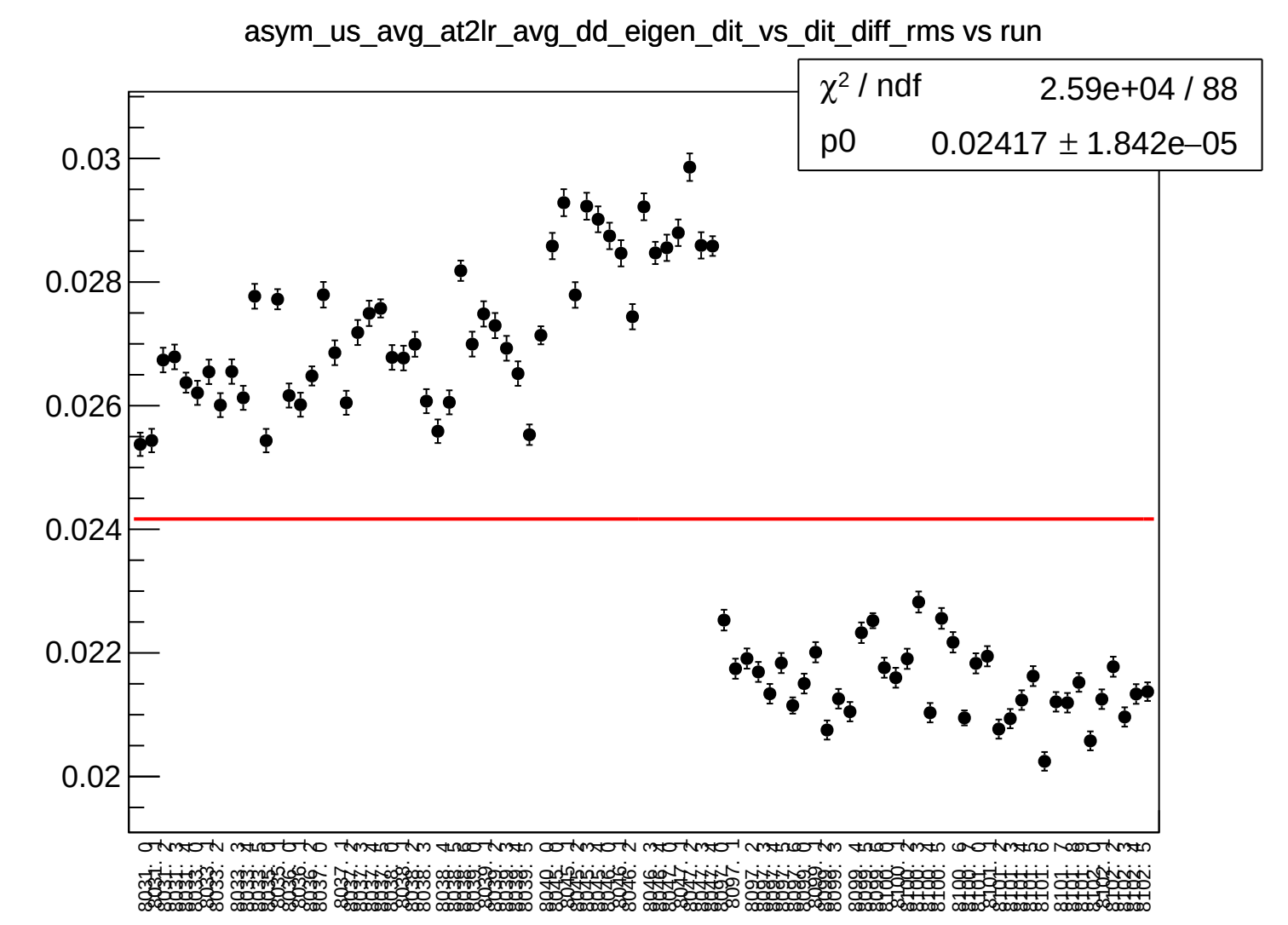

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.156e+05 / 88
p0 266.8 ± 0.2155
800
700
600
500
400
300
200

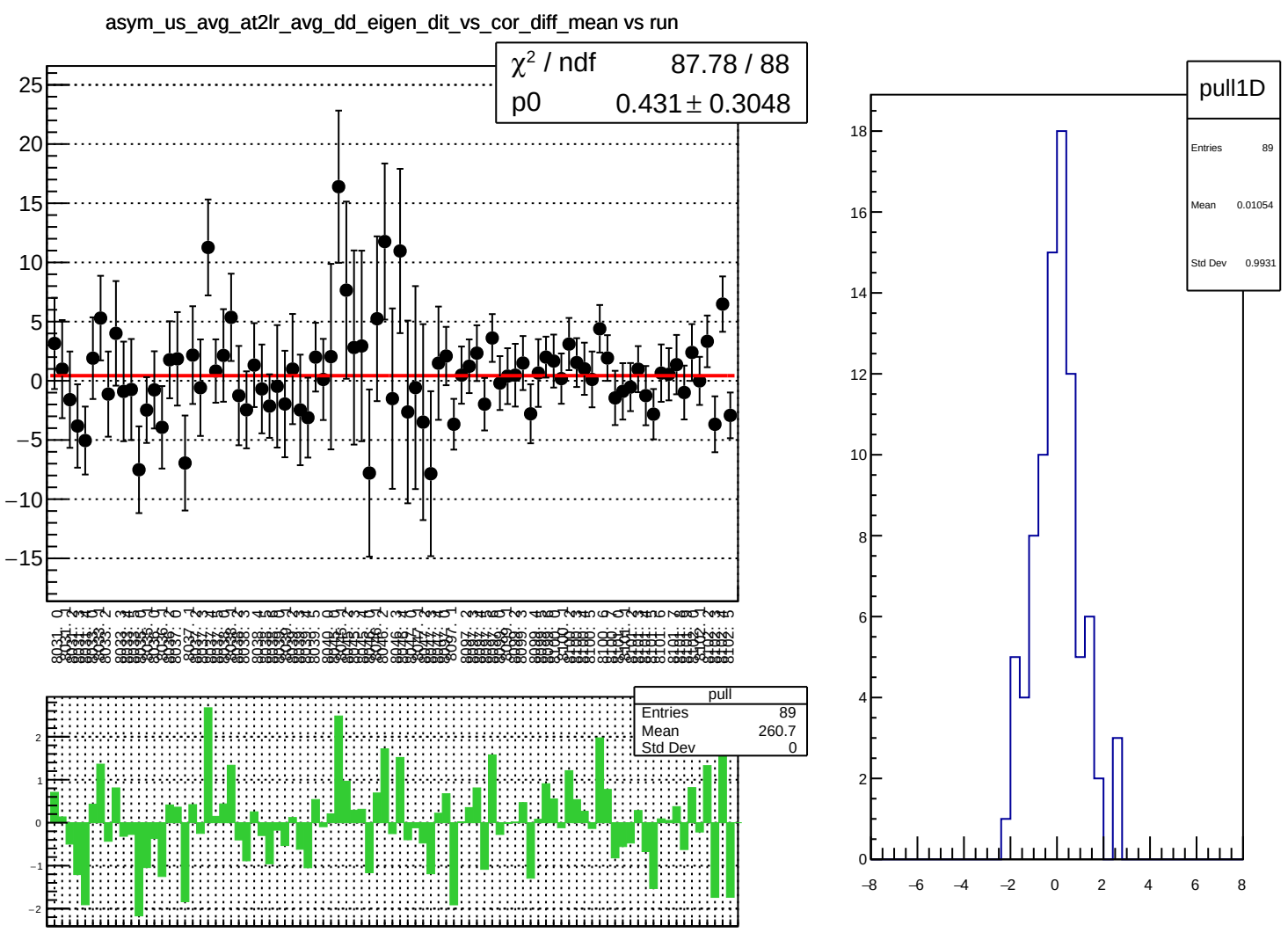

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.78 / 88
p0 0.431 ± 0.3048
pull
Entries 89
Mean 260.6
Std Dev 0
pull1D
Entries 89
Mean 0.01054
Std Dev 0.9931

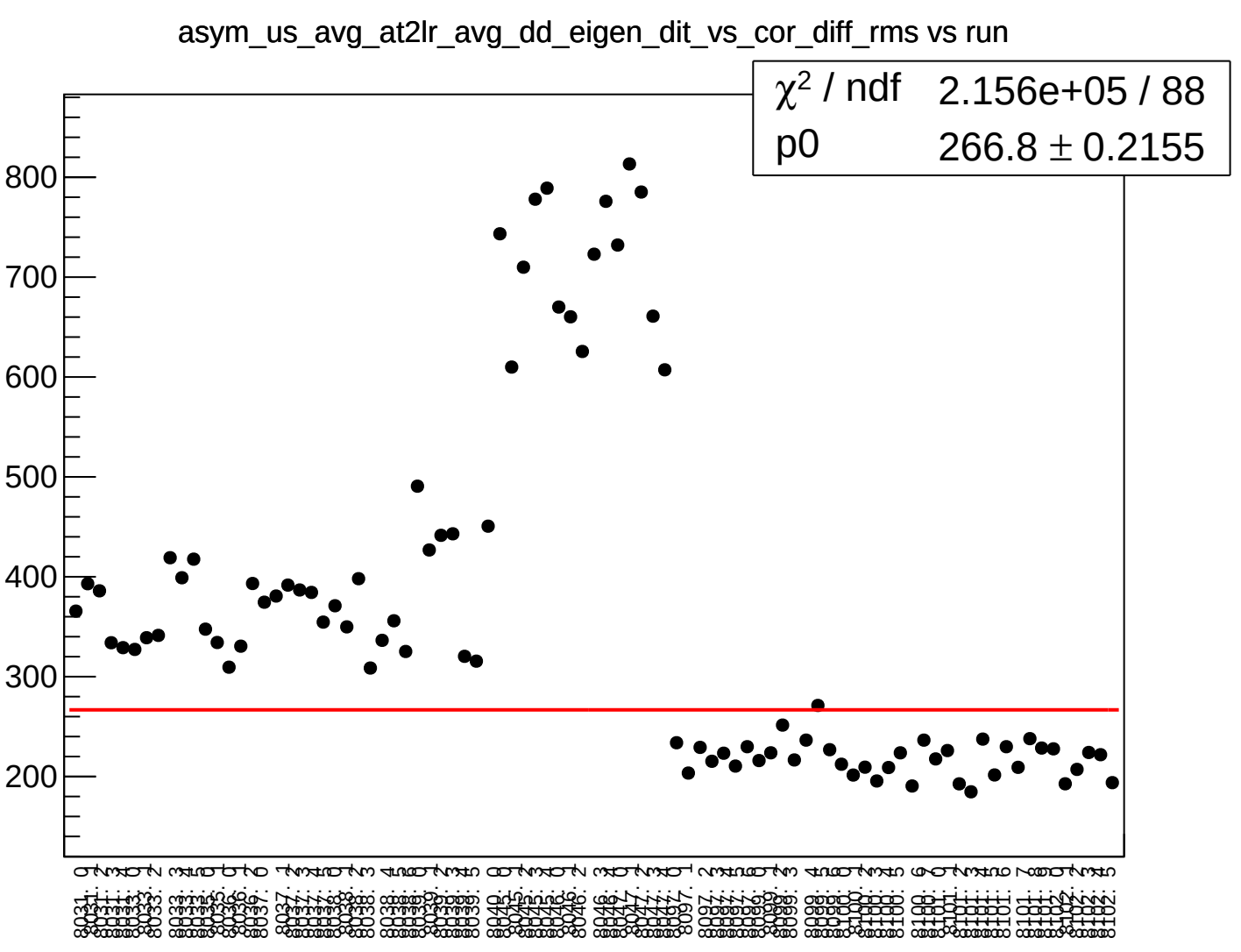

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.156e+05 / 88
p0 266.8 ± 0.2155
800
700
600
500
400
300
200


asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 93.63 / 88
p0 −1.062e−05 ± 2.605e−05
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 89
Mean −117.1
Std Dev 0
2
1
0
−1
−2
−3

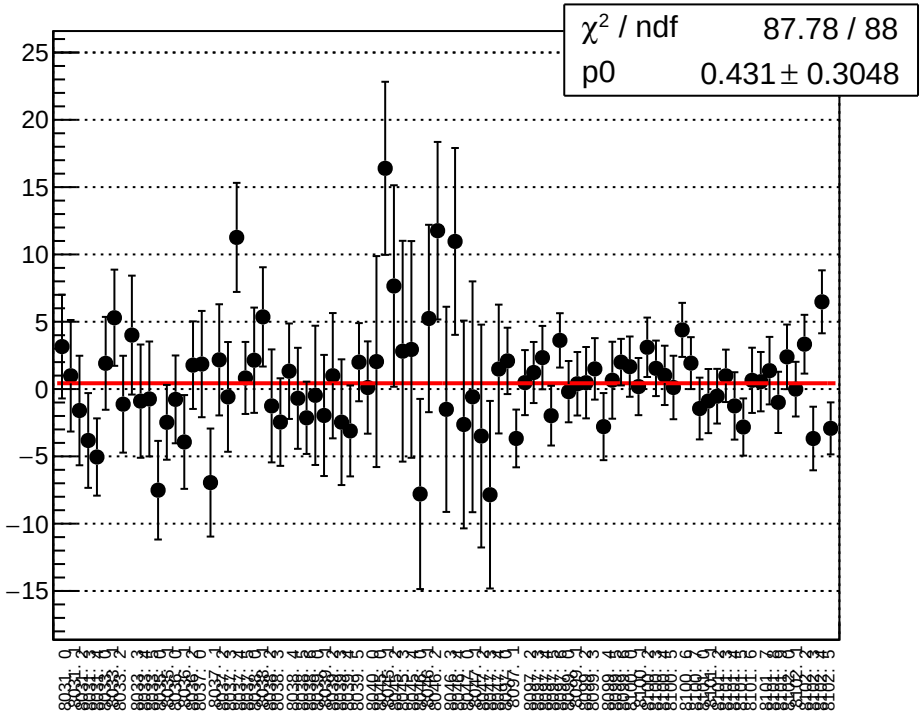

pull1D
Entries 89
Mean −0.01263
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

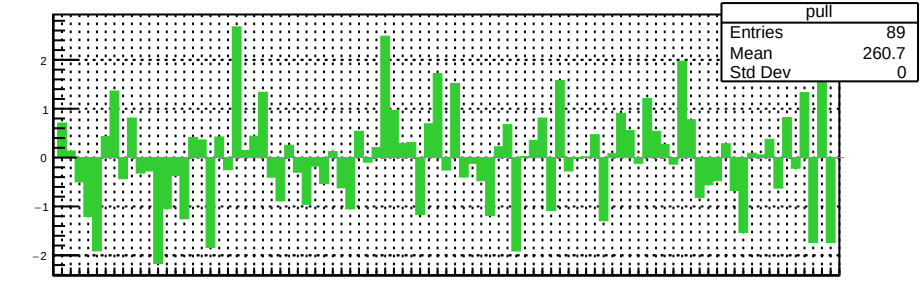

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.59e+04 / 88
p0 0.02417 ± 1.842e−05
0.03
0.028
0.026
0.024
0.022
0.02

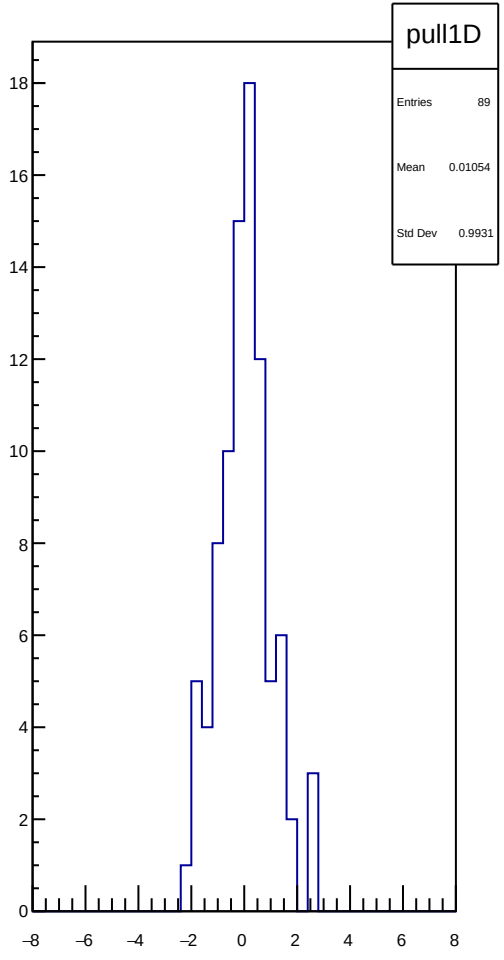

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.78 / 88
p0 0.431 ± 0.3048
pull
Entries 89
Mean 260.7
Std Dev 0
pull1D
Entries 89
Mean 0.01054
Std Dev 0.9931

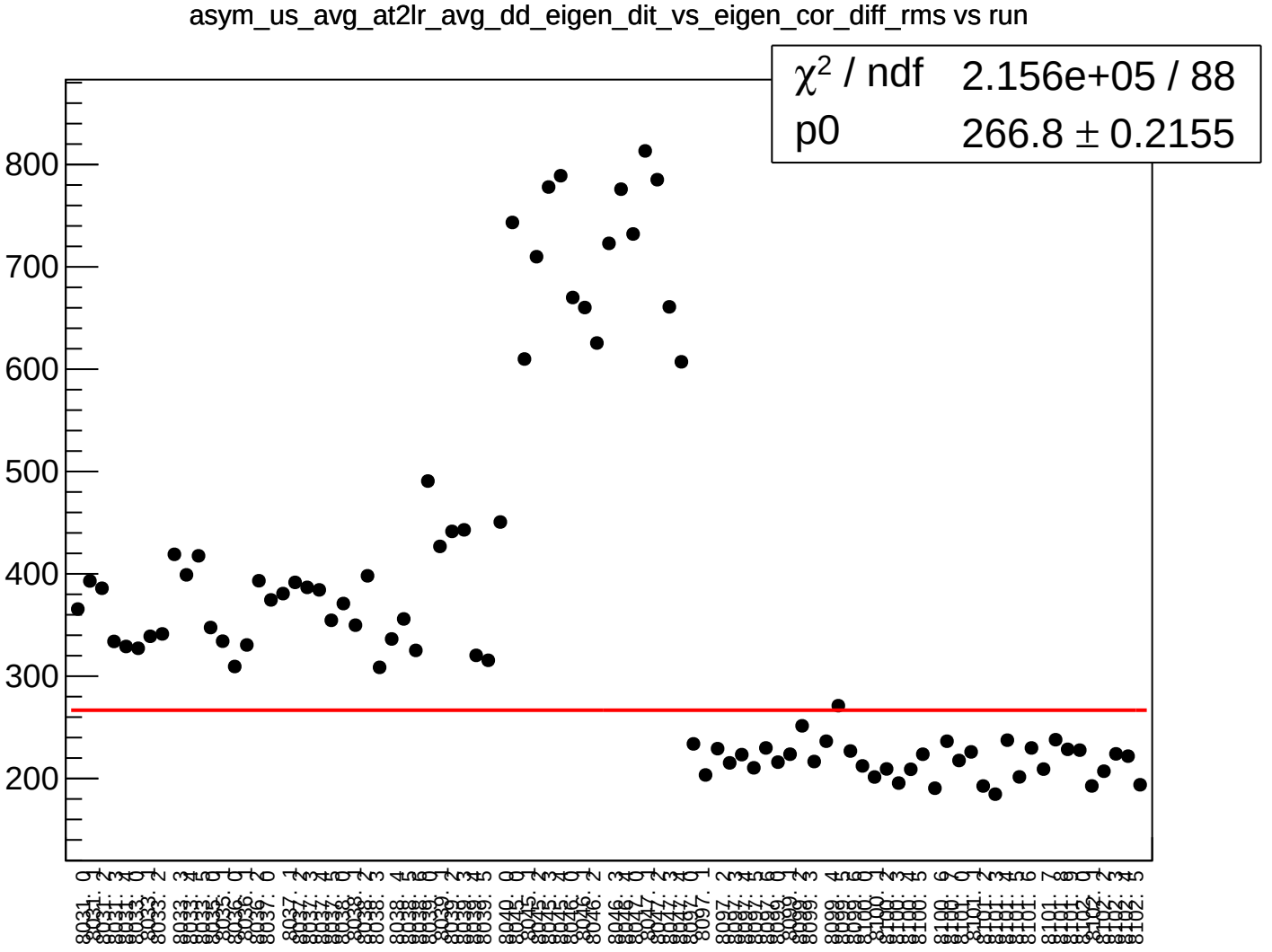

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.156e+05 / 88
p0 266.8 ± 0.2155
800
700
600
500
400
300
200

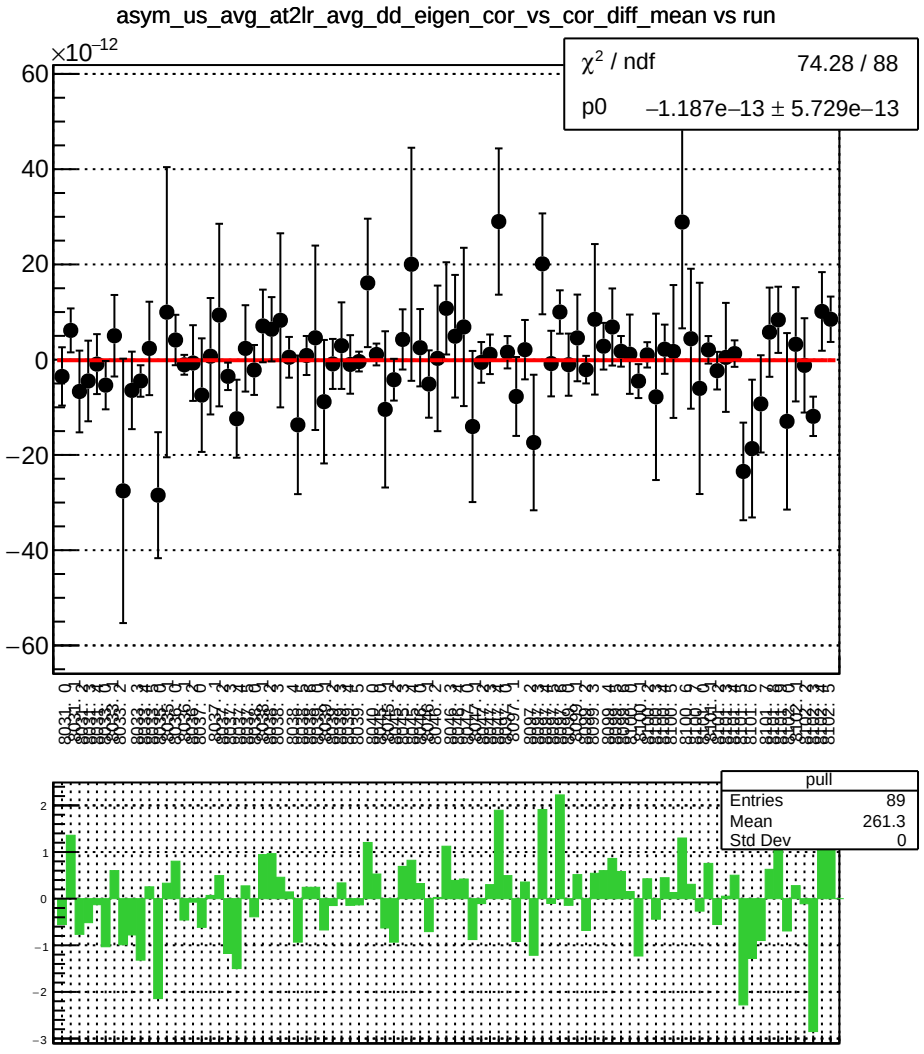
asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

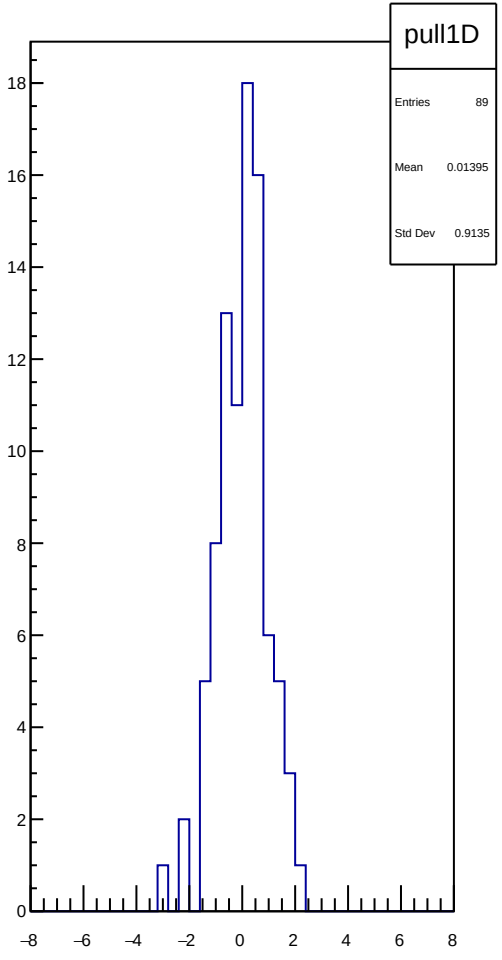


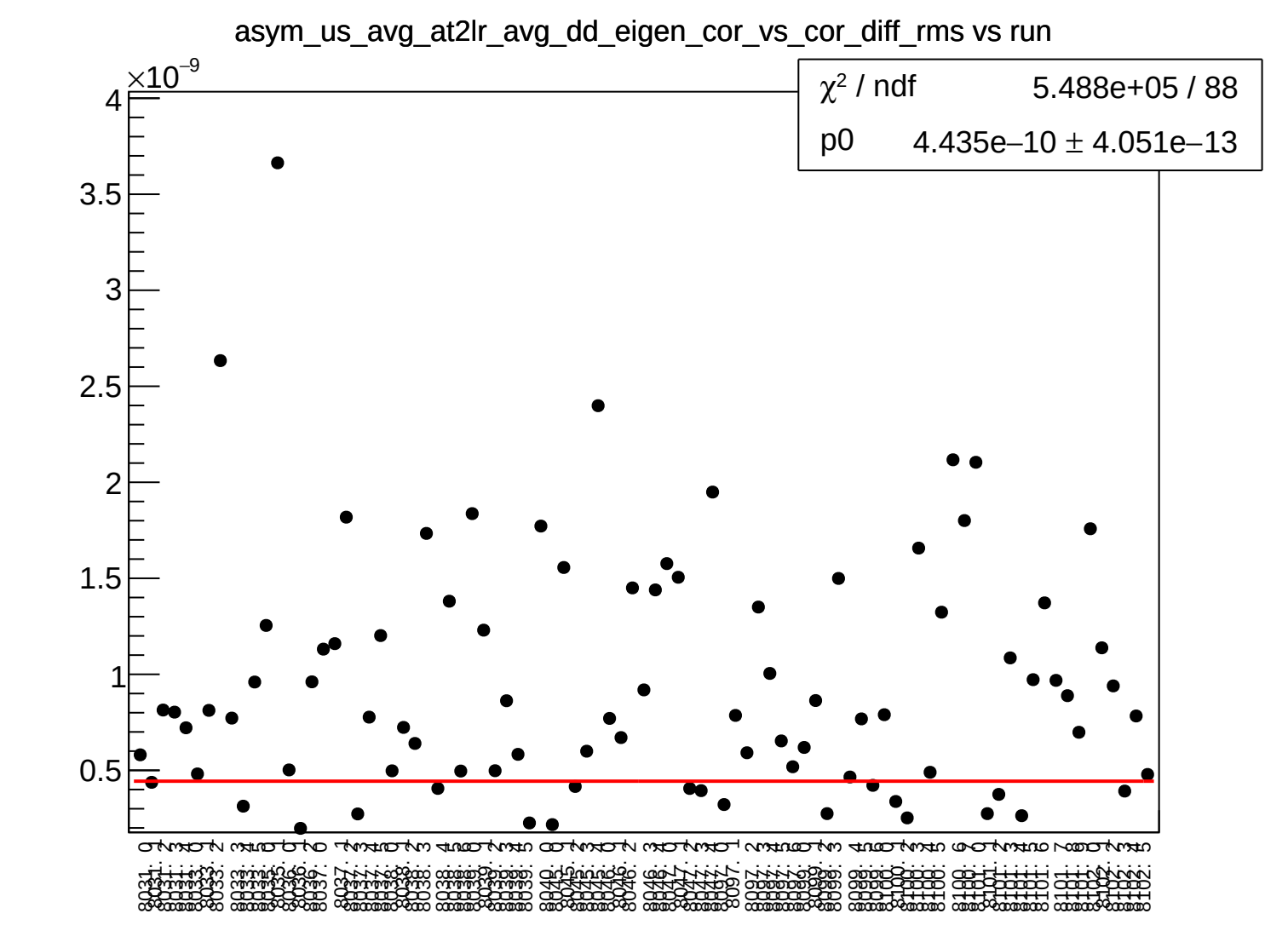



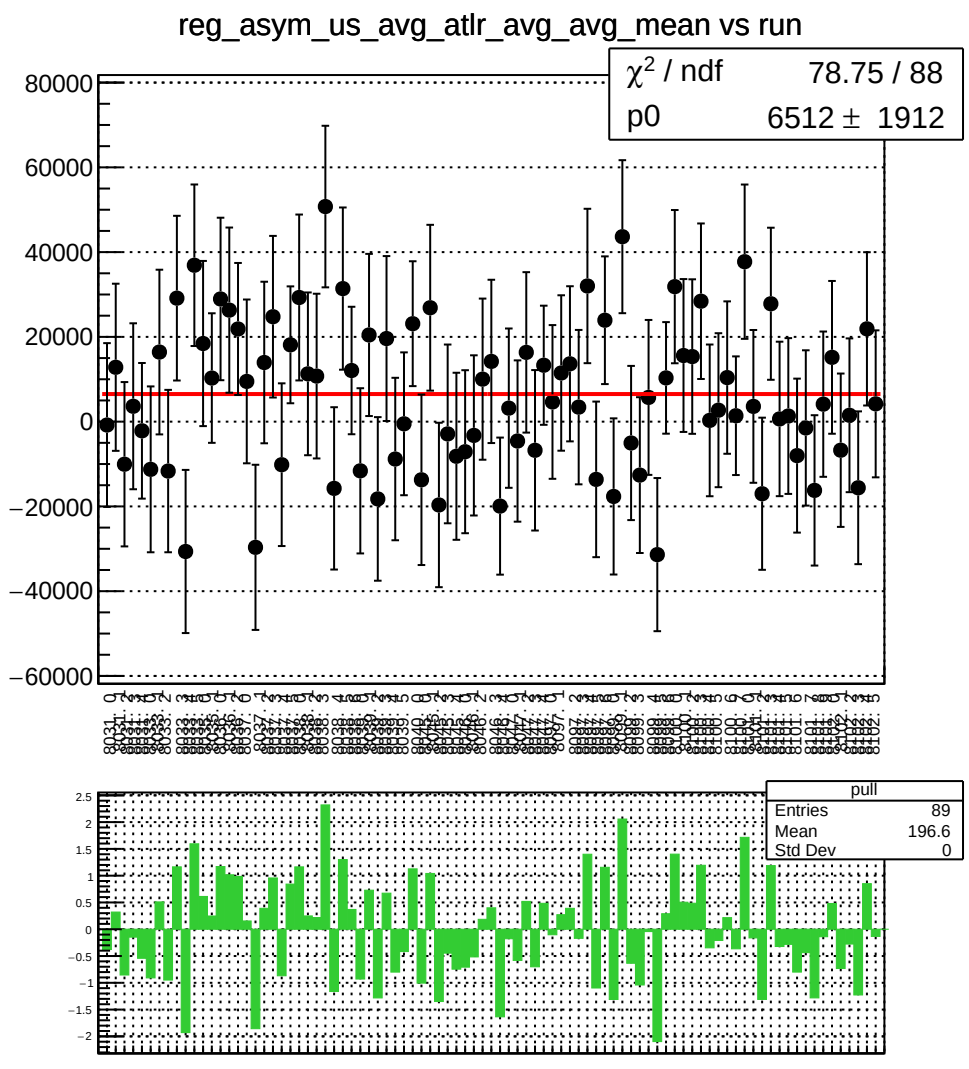



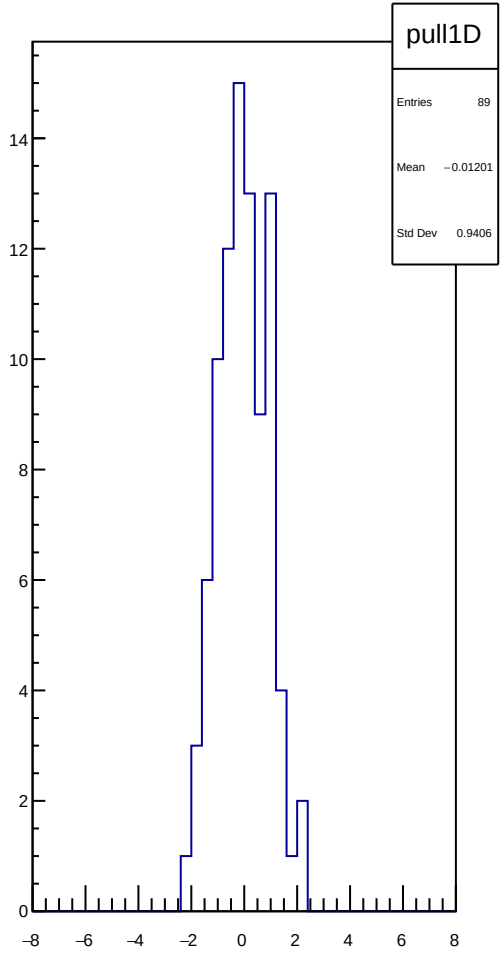

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.156e+05 / 88
p0 266.8 ± 0.2155
800
700
600
500
400
300
200

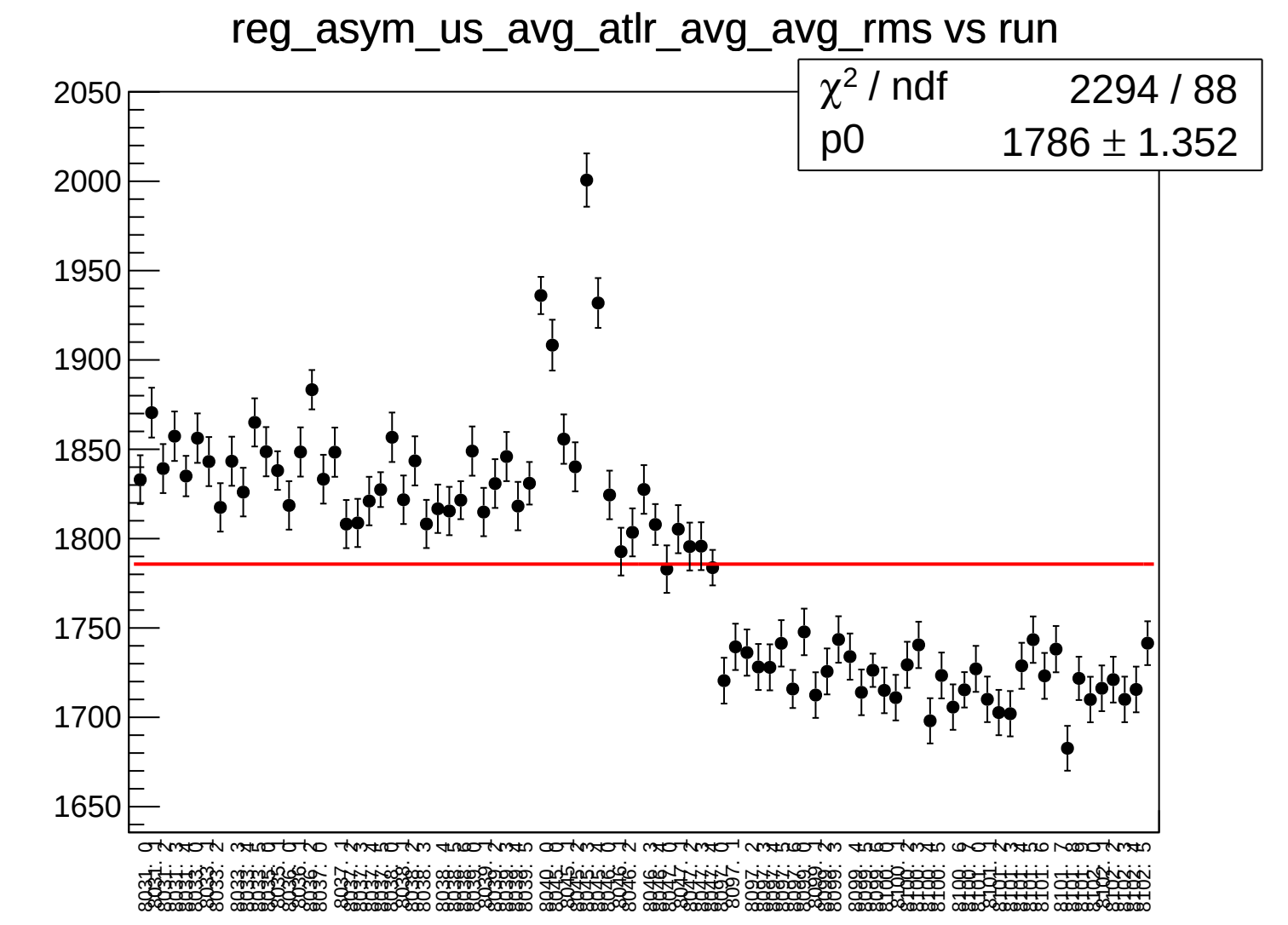

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.28 / 88
p0 −1.187e−13 ± 5.729e−13
pull
Entries 89
Mean 261.3
Std Dev 0

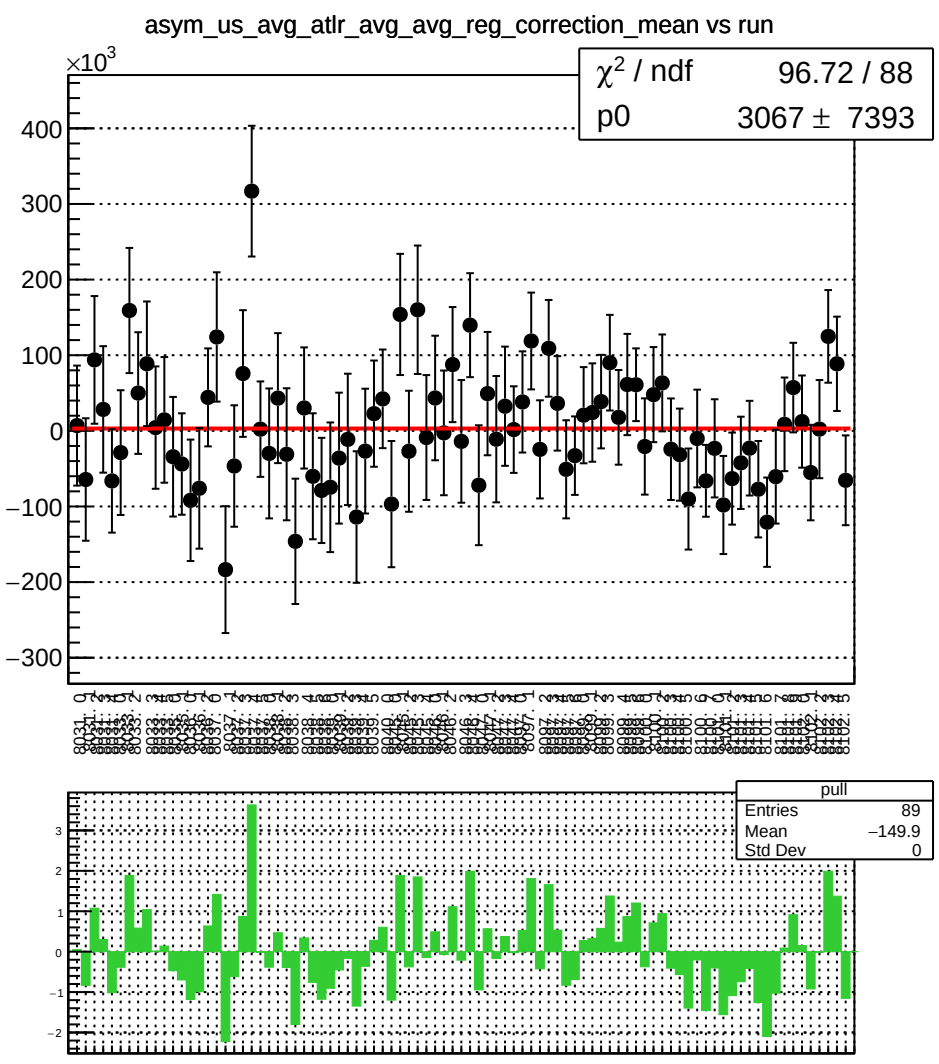

pull1D
Entries 89
Mean 0.01395
Std Dev 0.9135

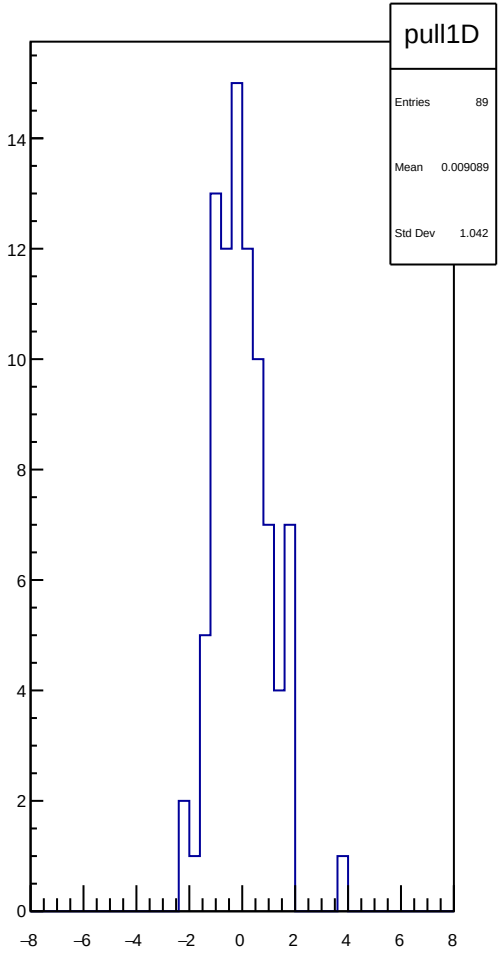

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.488e+05 / 88
p0 4.435e−10 ± 4.051e−13
4
3.5
3
2.5
2
1.5
1
0.5

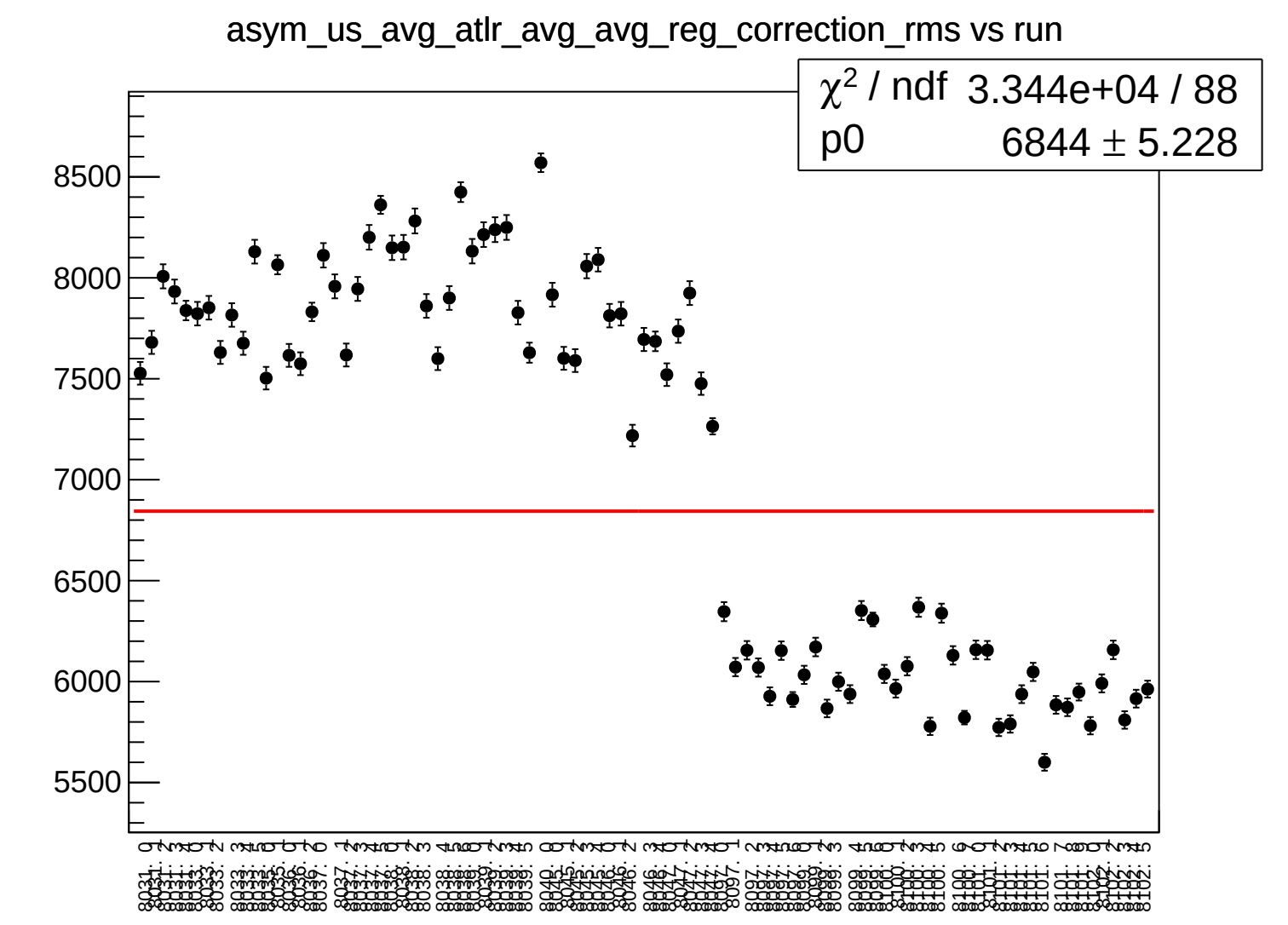

reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 78.75 / 88
p0 6512 ± 1912
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 196.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

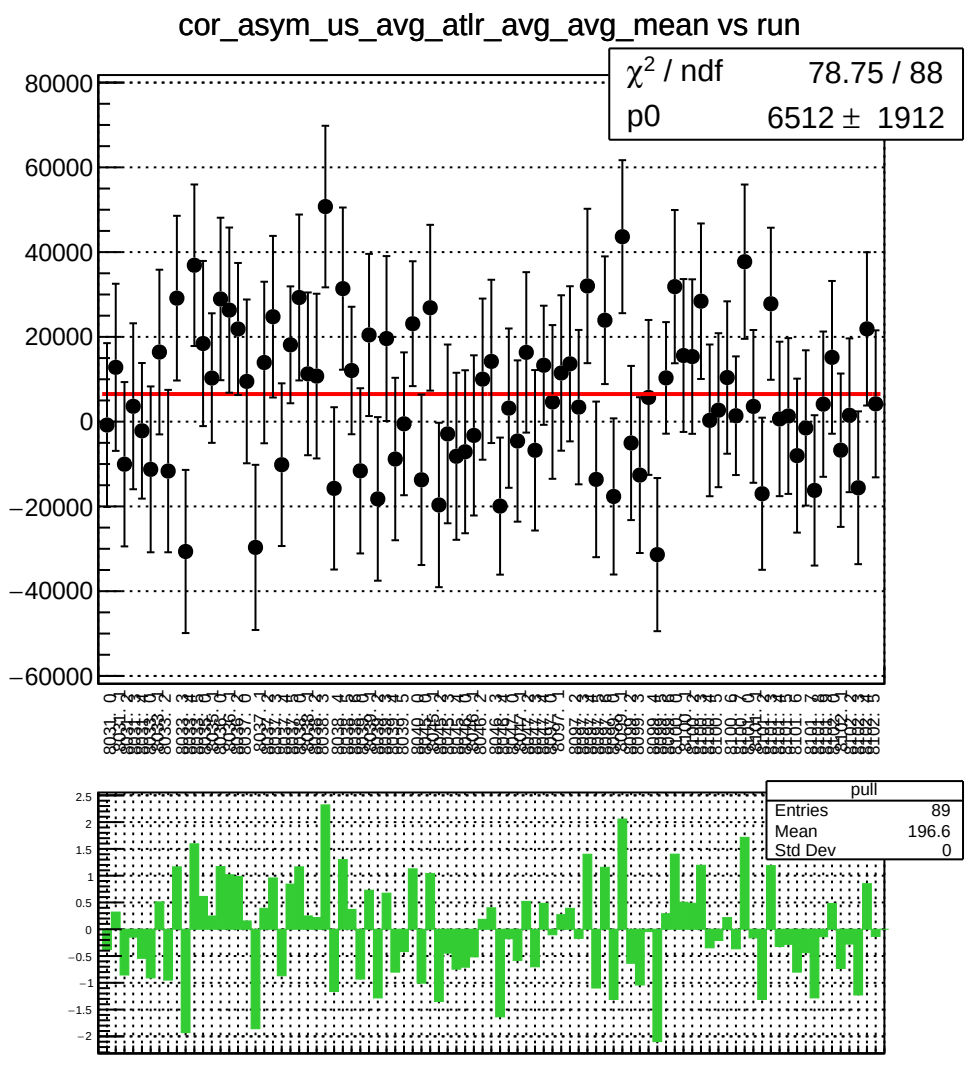

pull1D
Entries 89
Mean −0.01201
Std Dev 0.9406
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

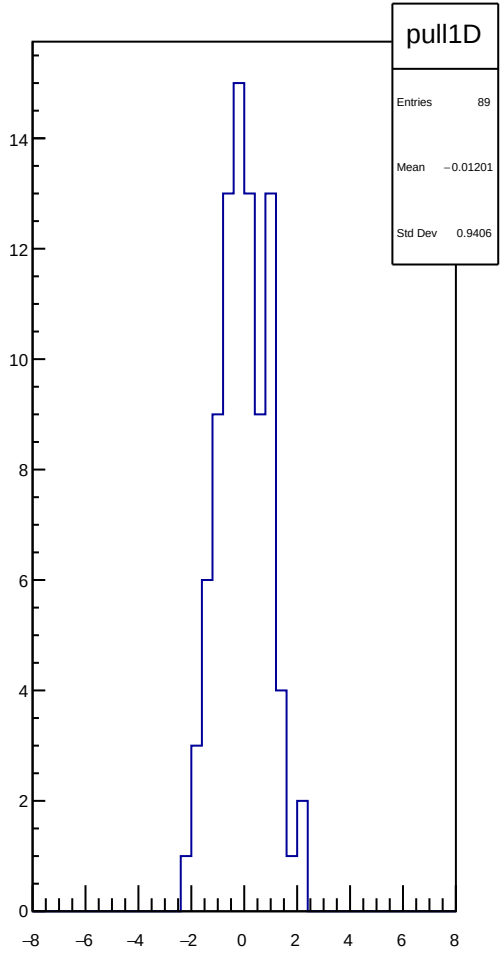

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 2294 / 88
p0 1786 ± 1.352
2050
2000
1950
1900
1850
1800
1750
1700
1650

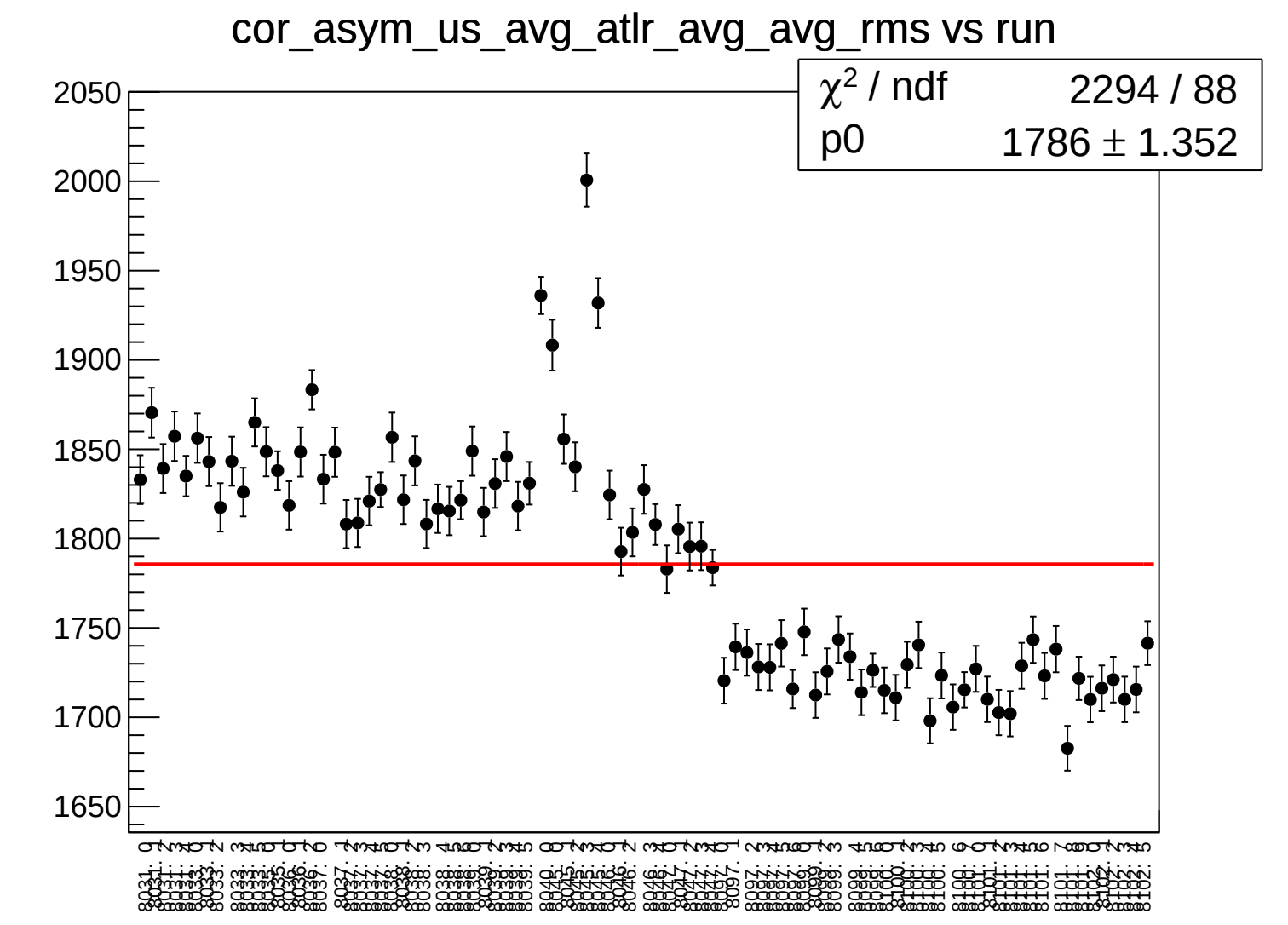

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 96.72 / 88
p0 3067 ± 7393
pull
Entries 89
Mean −149.9
Std Dev 0

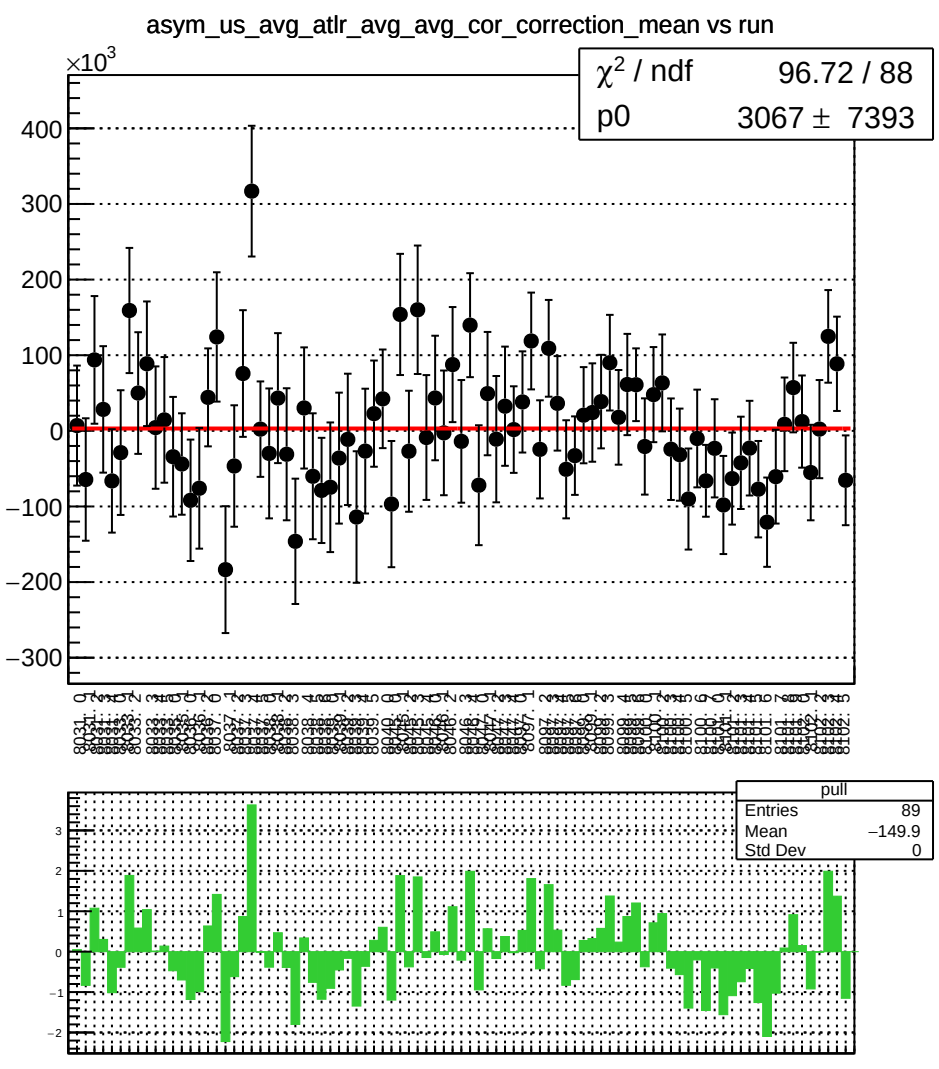

pull1D
Entries 89
Mean 0.009089
Std Dev 1.042

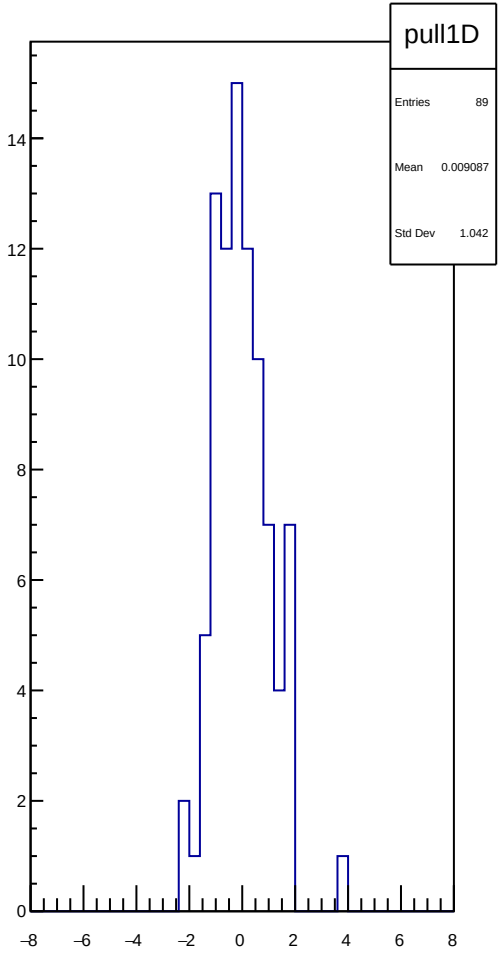

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ² / ndf 3.344e+04 / 88
p0 6844 ± 5.228
8500
8000
7500
7000
6500
6000
5500

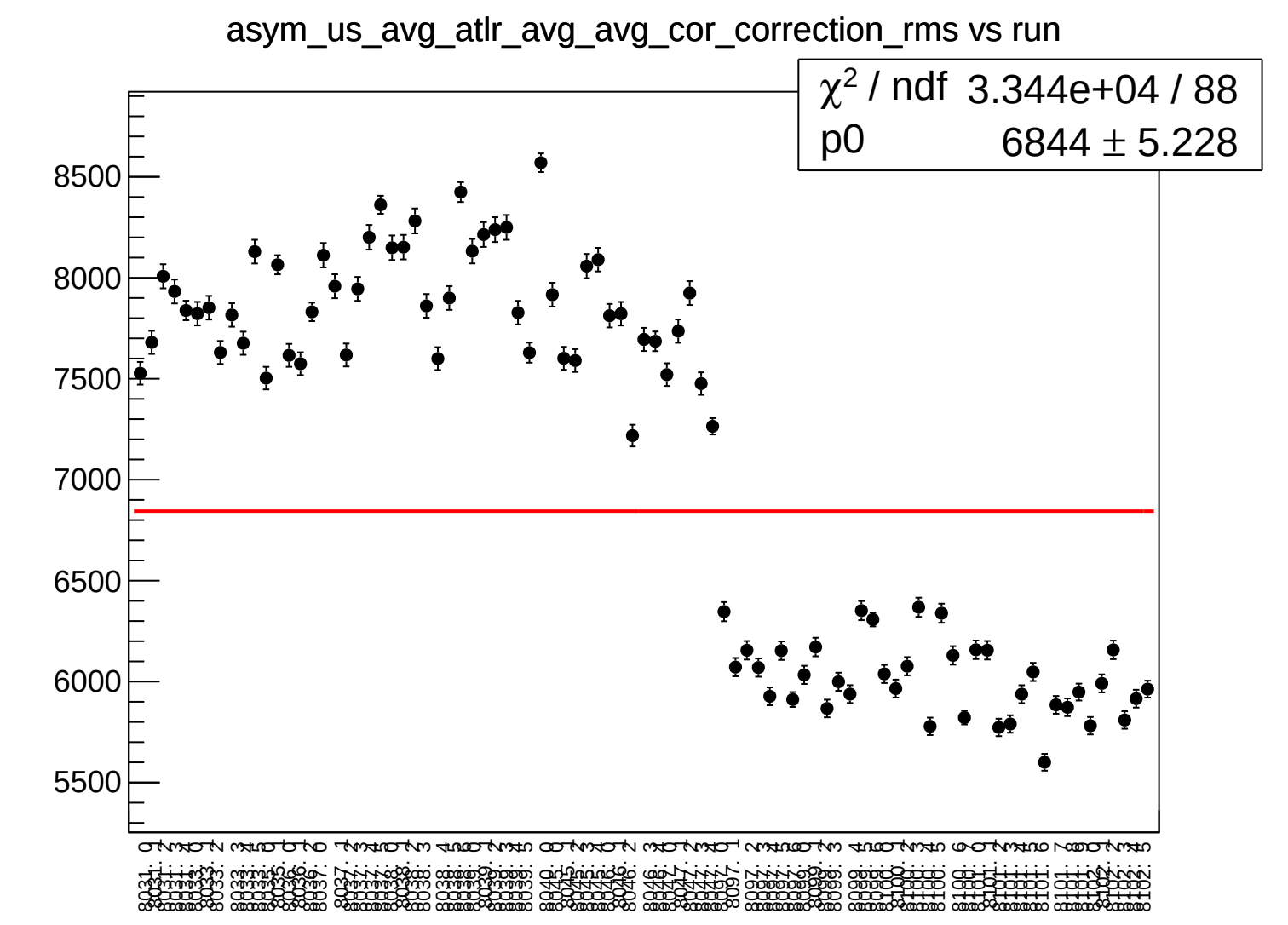

cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 78.75 / 88
p0 6512 ± 1912
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 196.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

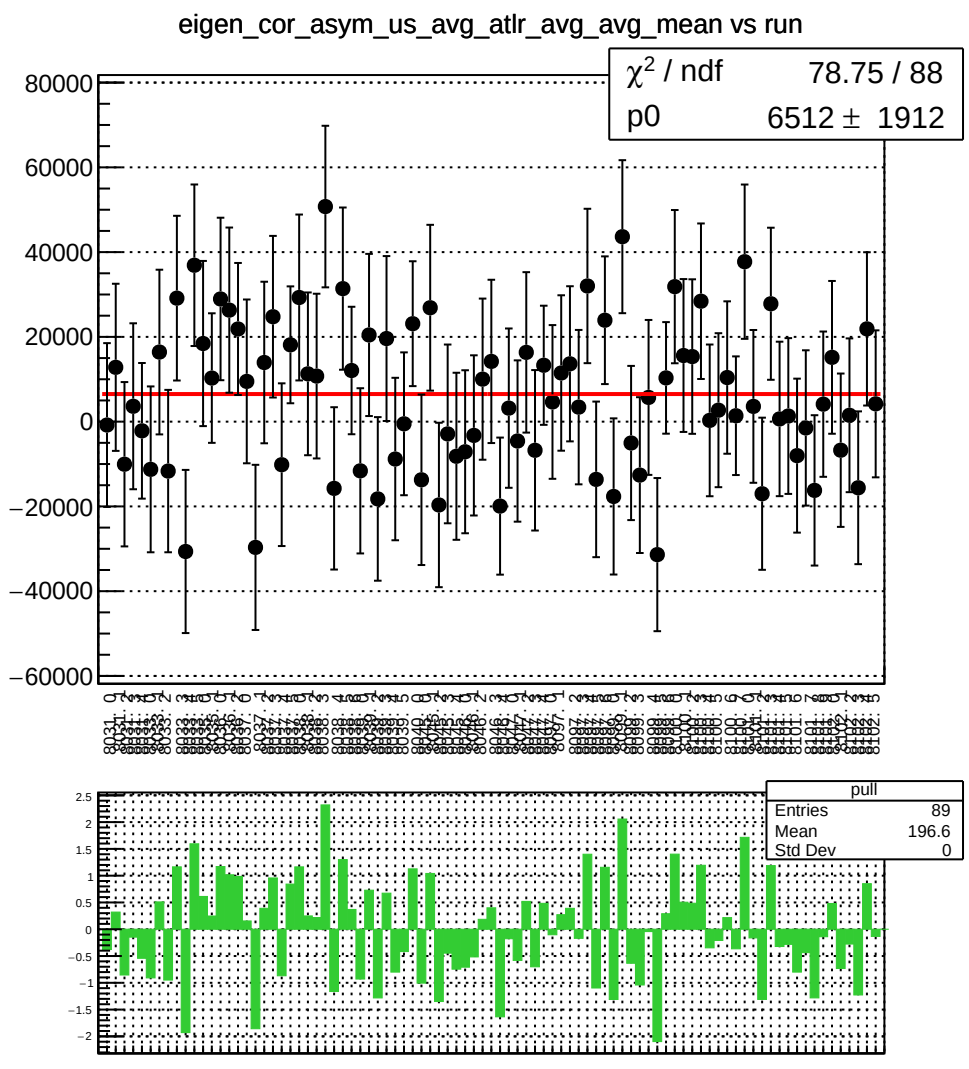

pull1D
Entries 89
Mean −0.01201
Std Dev 0.9406
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

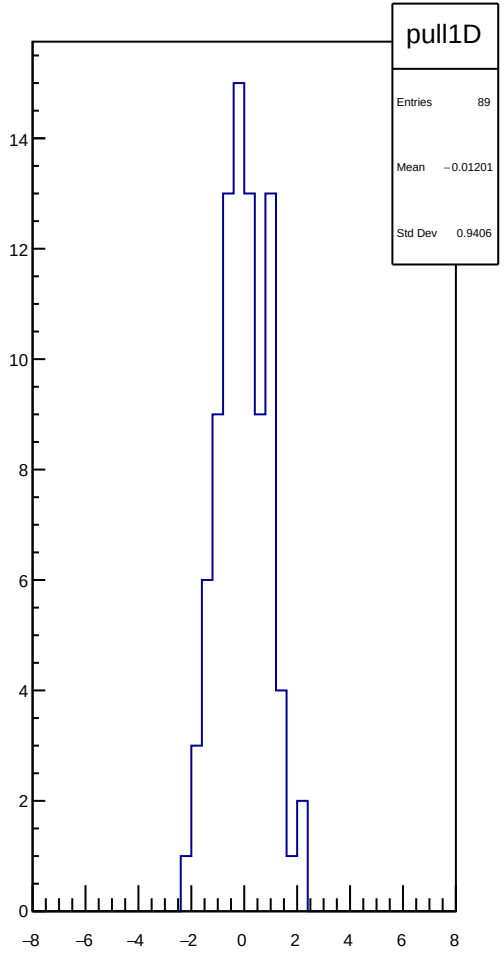

cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 2294 / 88
p0 1786 ± 1.352
2050
2000
1950
1900
1850
1800
1750
1700
1650

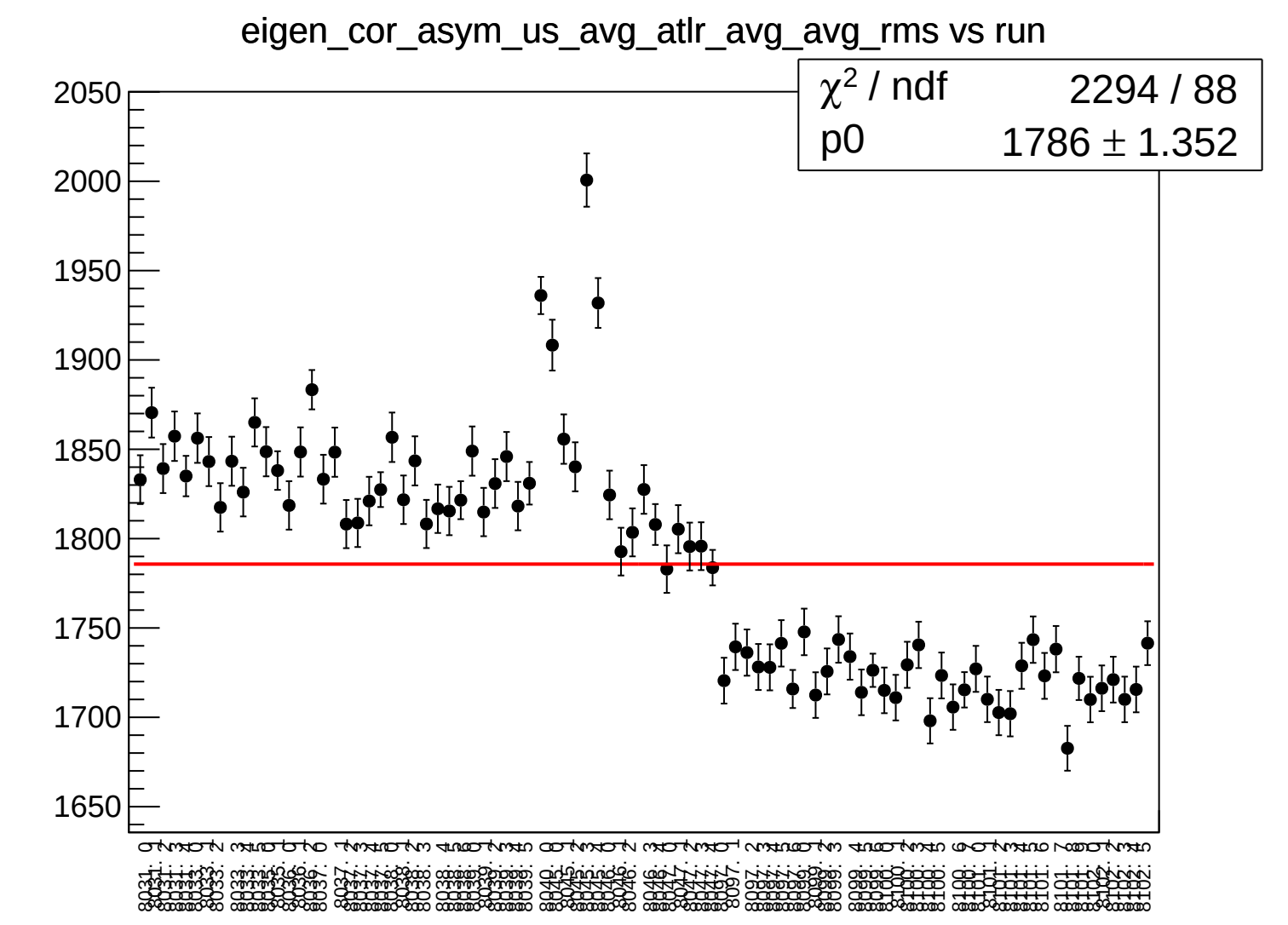

asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 96.72 / 88
p0 3067 ± 7393
pull
Entries 89
Mean −149.9
Std Dev 0

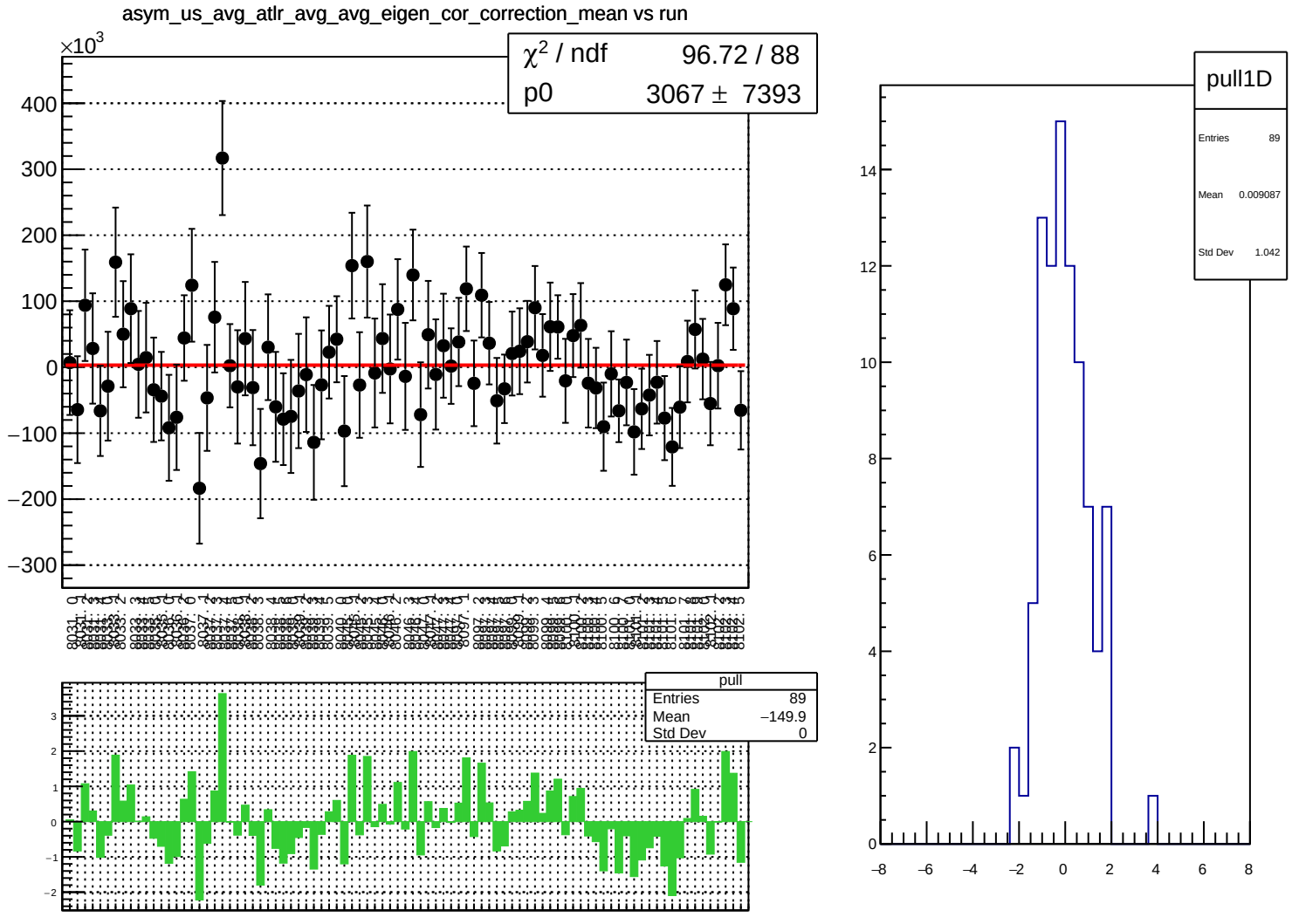

pull1D
Entries 89
Mean 0.009087
Std Dev 1.042

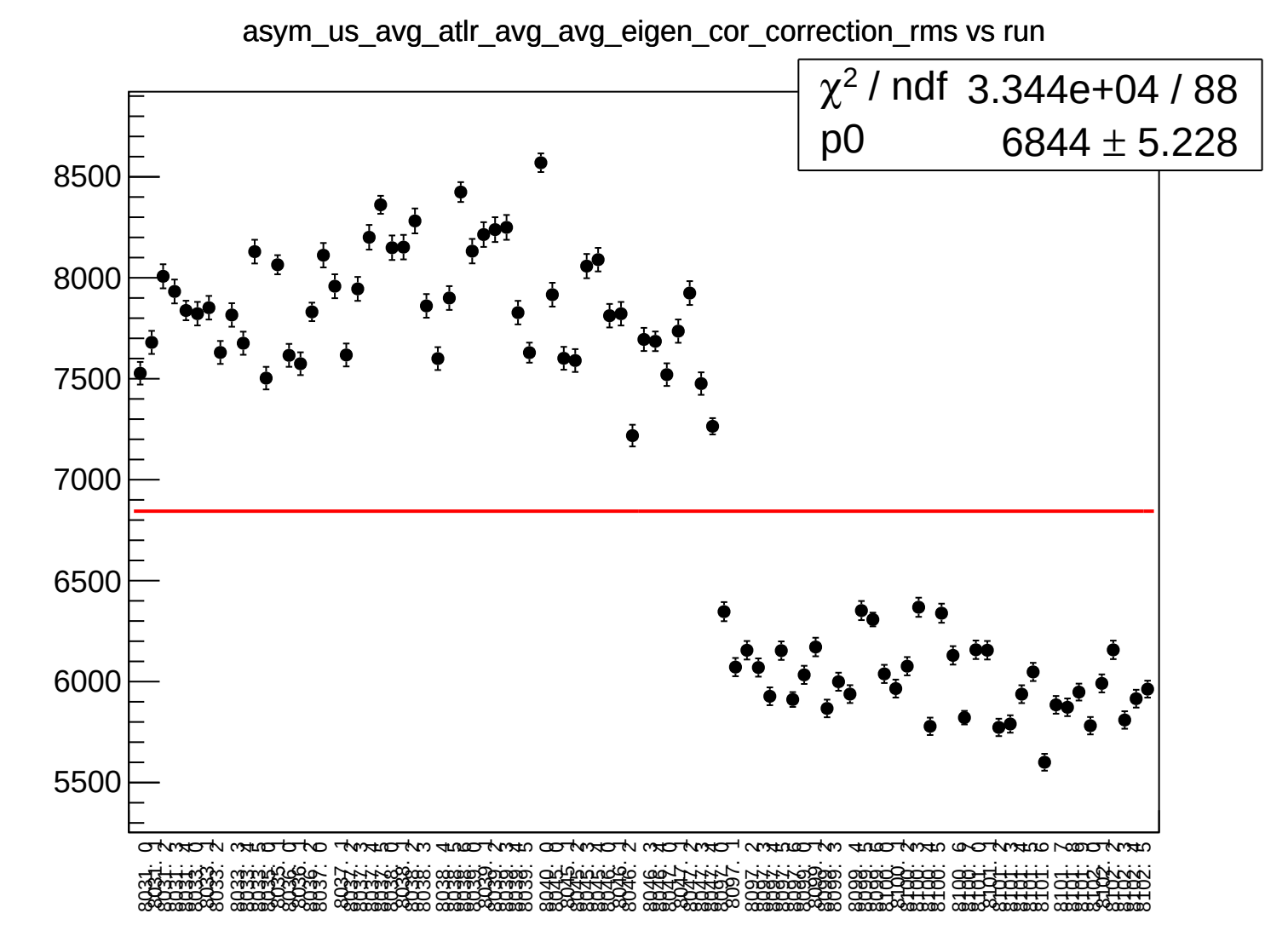

asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ² / ndf 3.344e+04 / 88
p0 6844 ± 5.228
8500
8000
7500
7000
6500
6000
5500

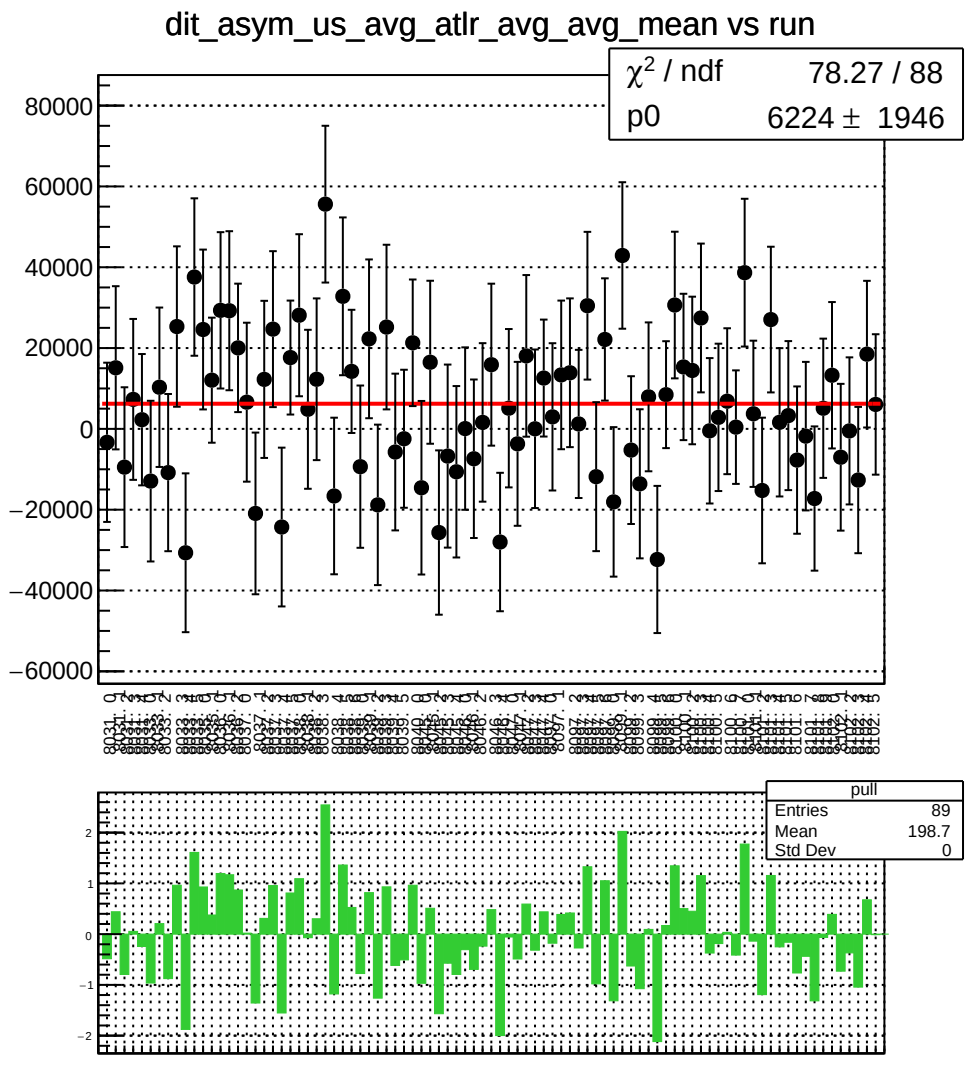

eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 78.75 / 88
p0 6512 ± 1912
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 196.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

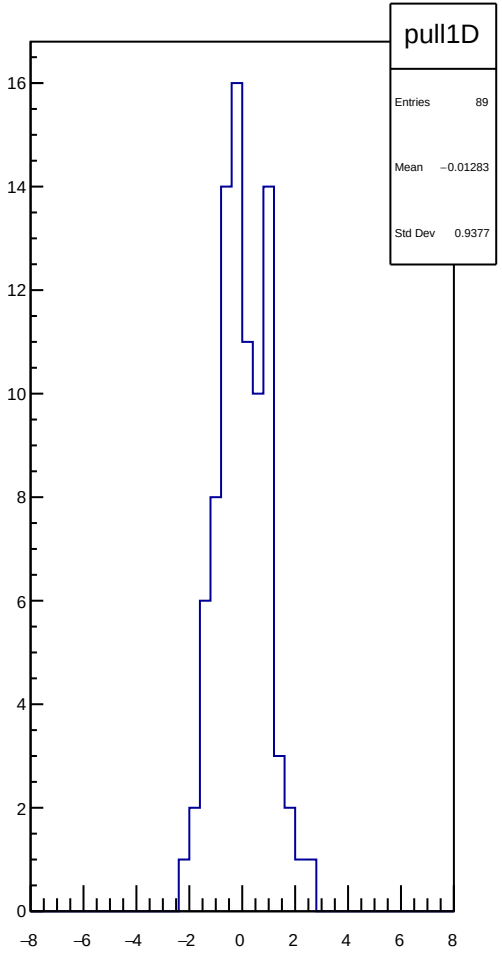

pull1D
Entries 89
Mean −0.01201
Std Dev 0.9406
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

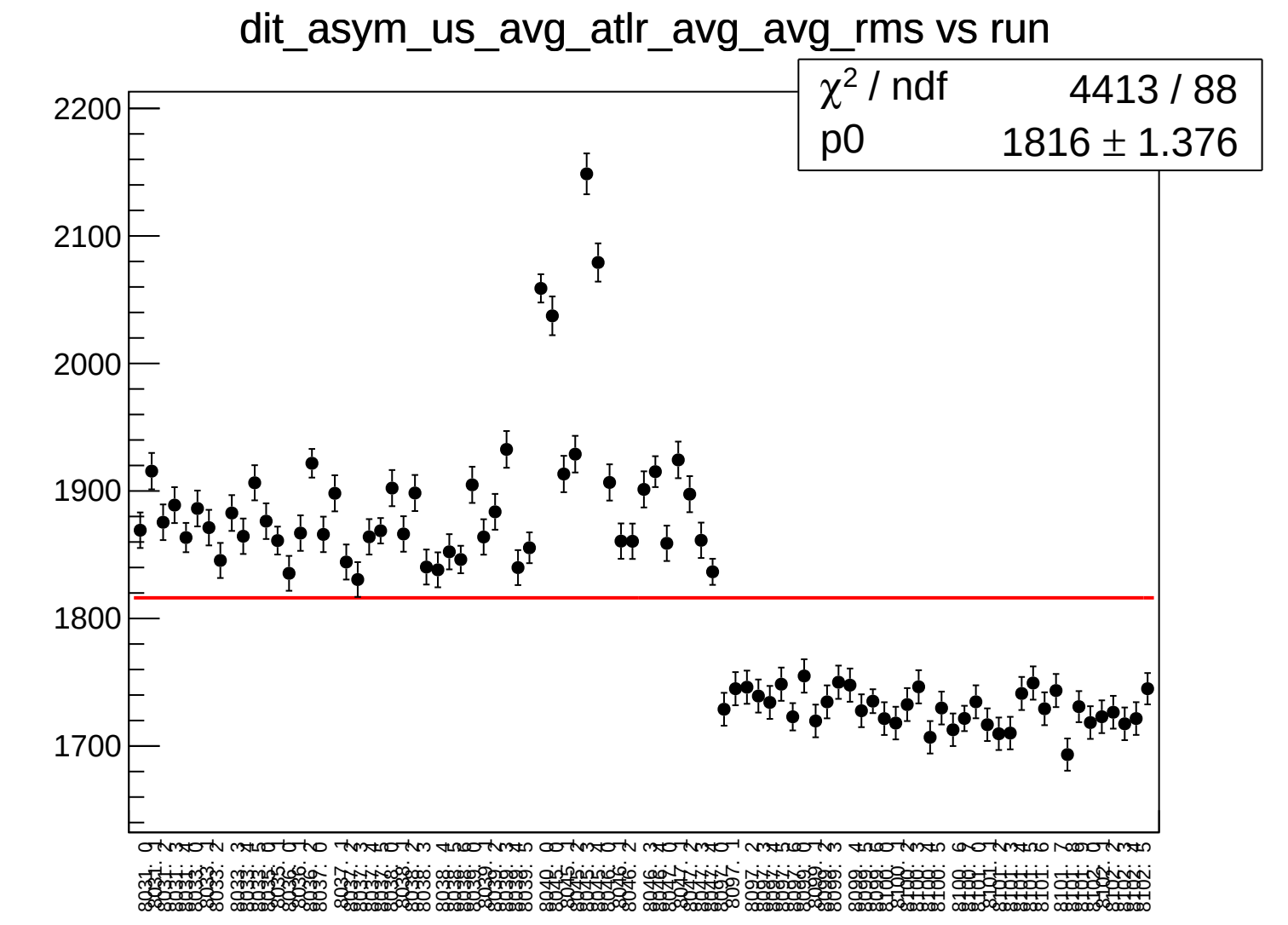

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 2294 / 88
p0 1786 ± 1.352
2050
2000
1950
1900
1850
1800
1750
1700
1650

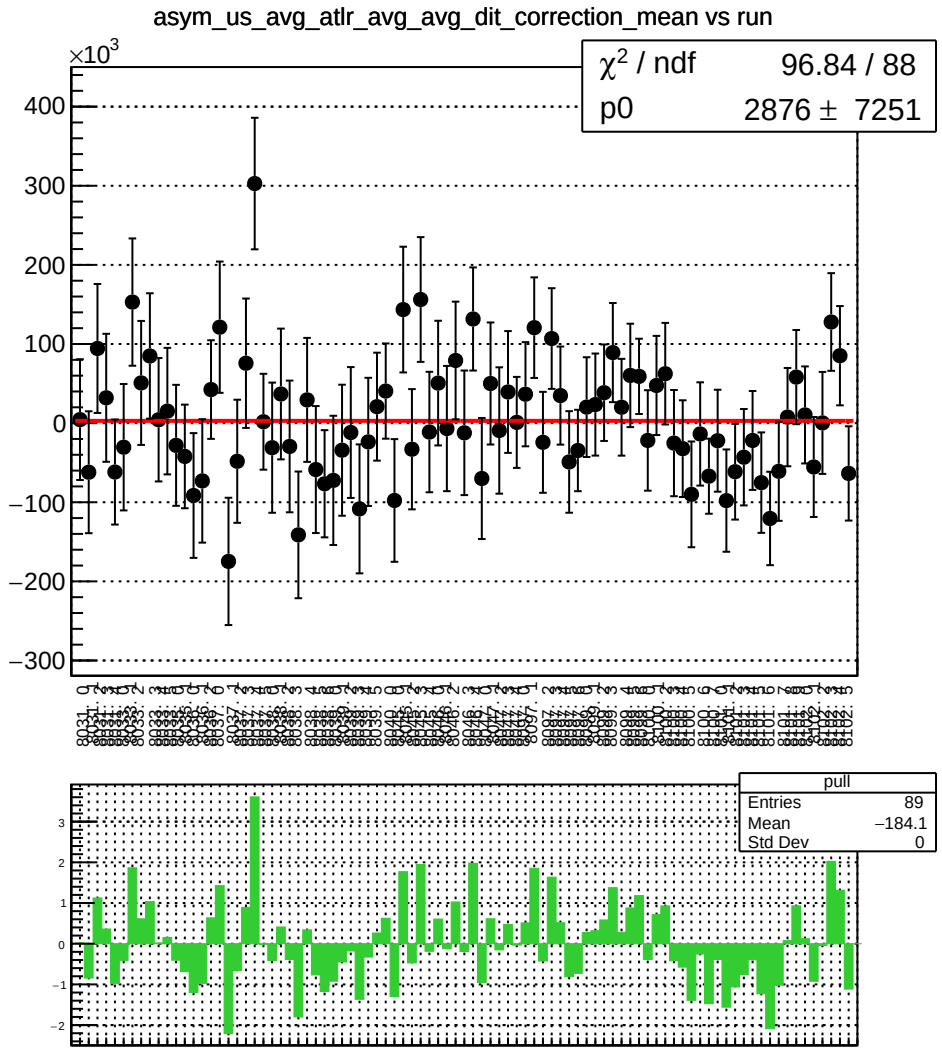

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 96.72 / 88
p0 3067 ± 7393
400
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −149.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.009087
Std Dev 1.042
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

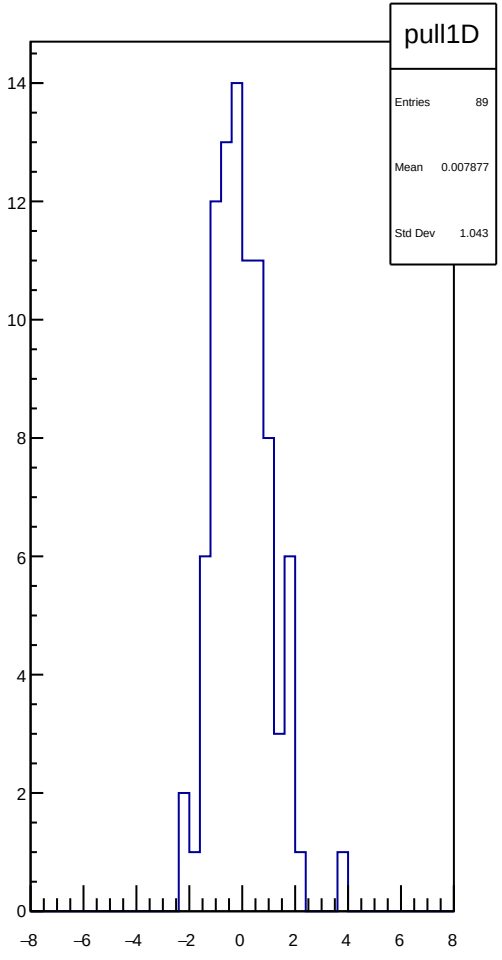

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.344e+04 / 88
p0 6844 ± 5.228
8500
8000
7500
7000
6500
6000
5500

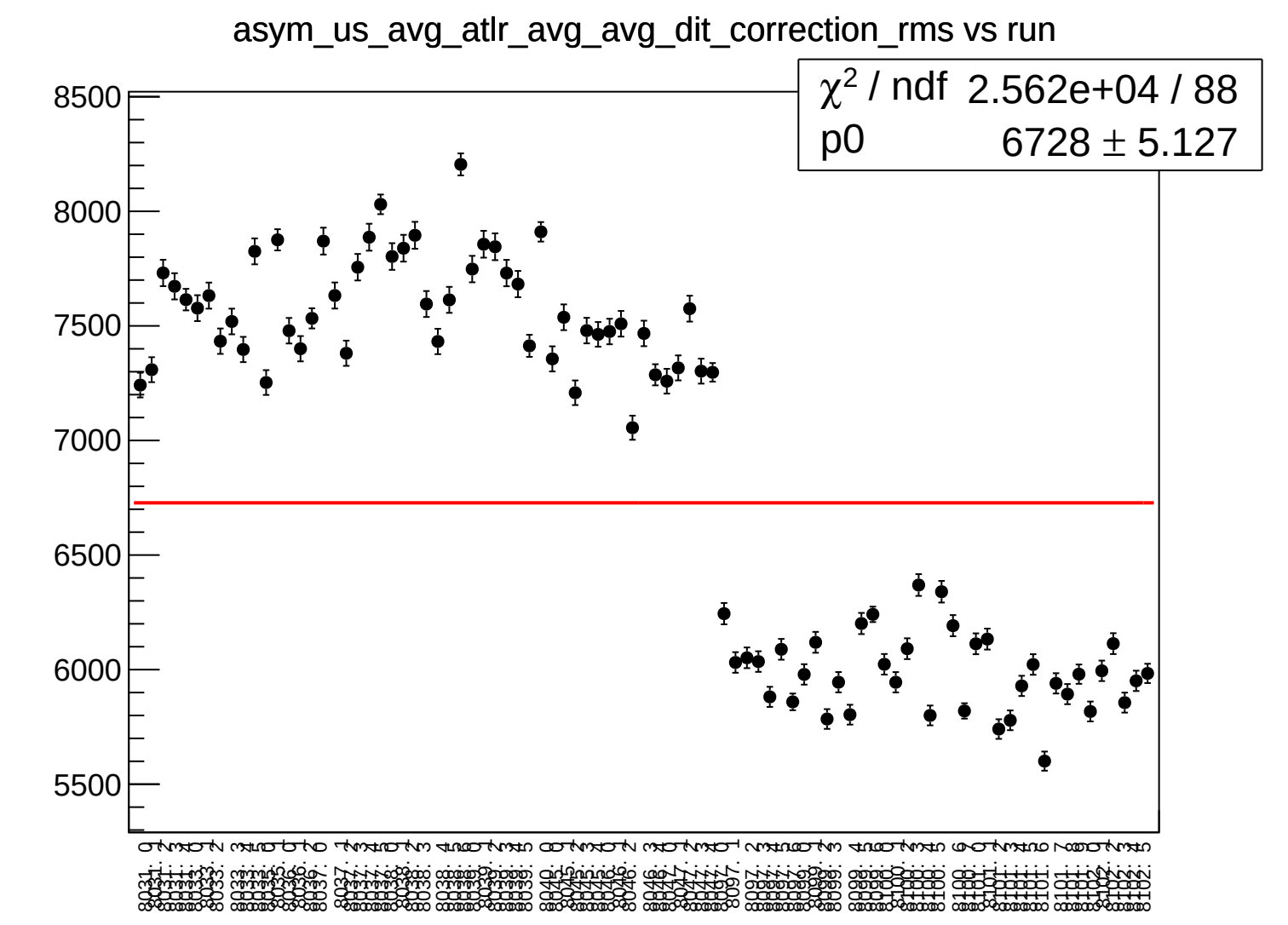

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 78.27 / 88
p0 6224 ± 1946
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 198.7
Std Dev 0
2
1
0
−1
−2

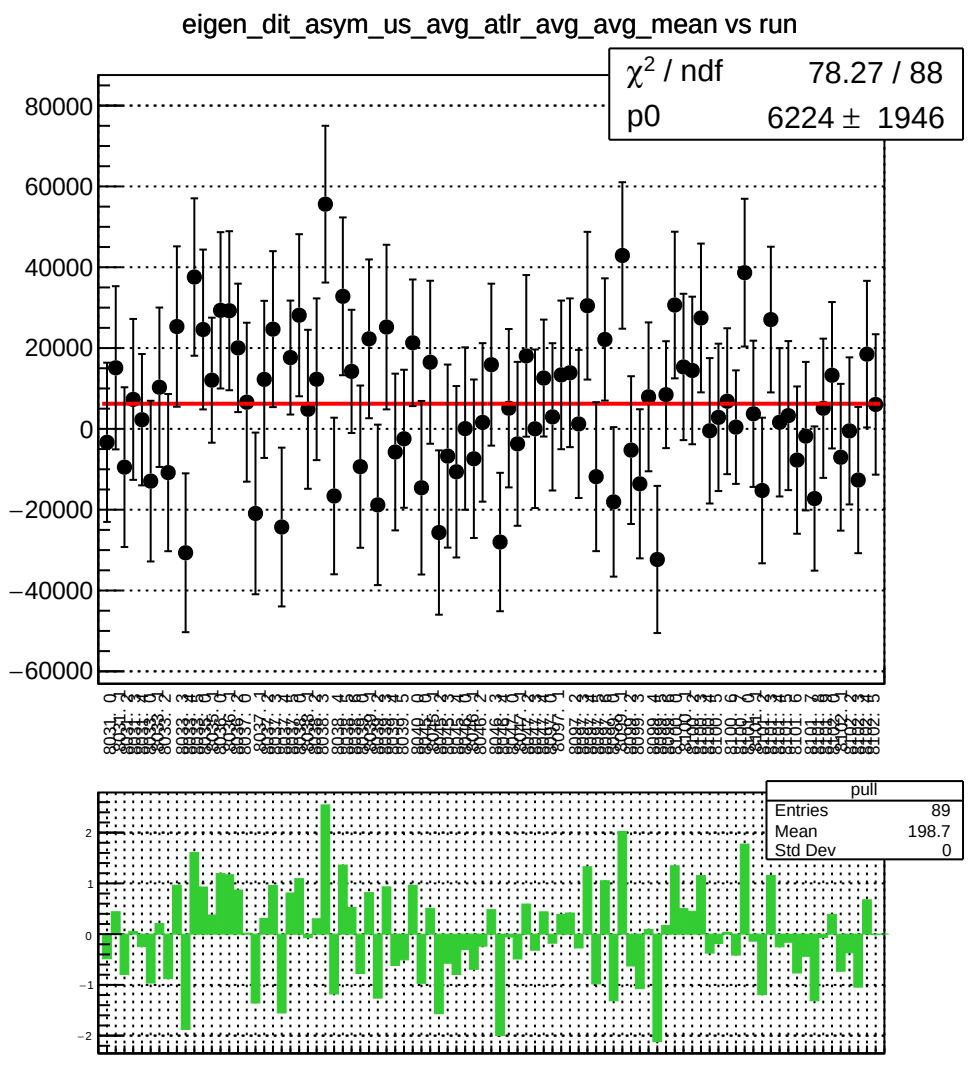

pull1D
Entries 89
Mean −0.01283
Std Dev 0.9377
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

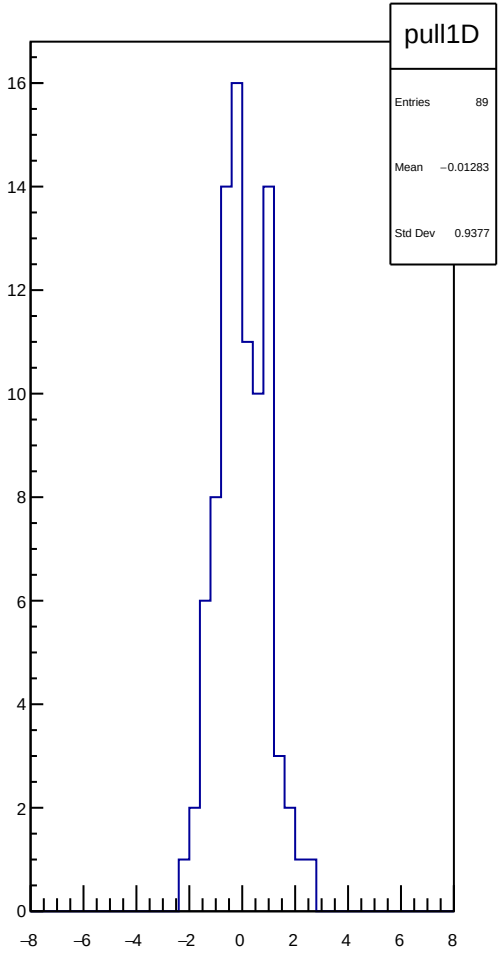

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 4413 / 88
p0 1816 ± 1.376
2200
2100
2000
1900
1800
1700

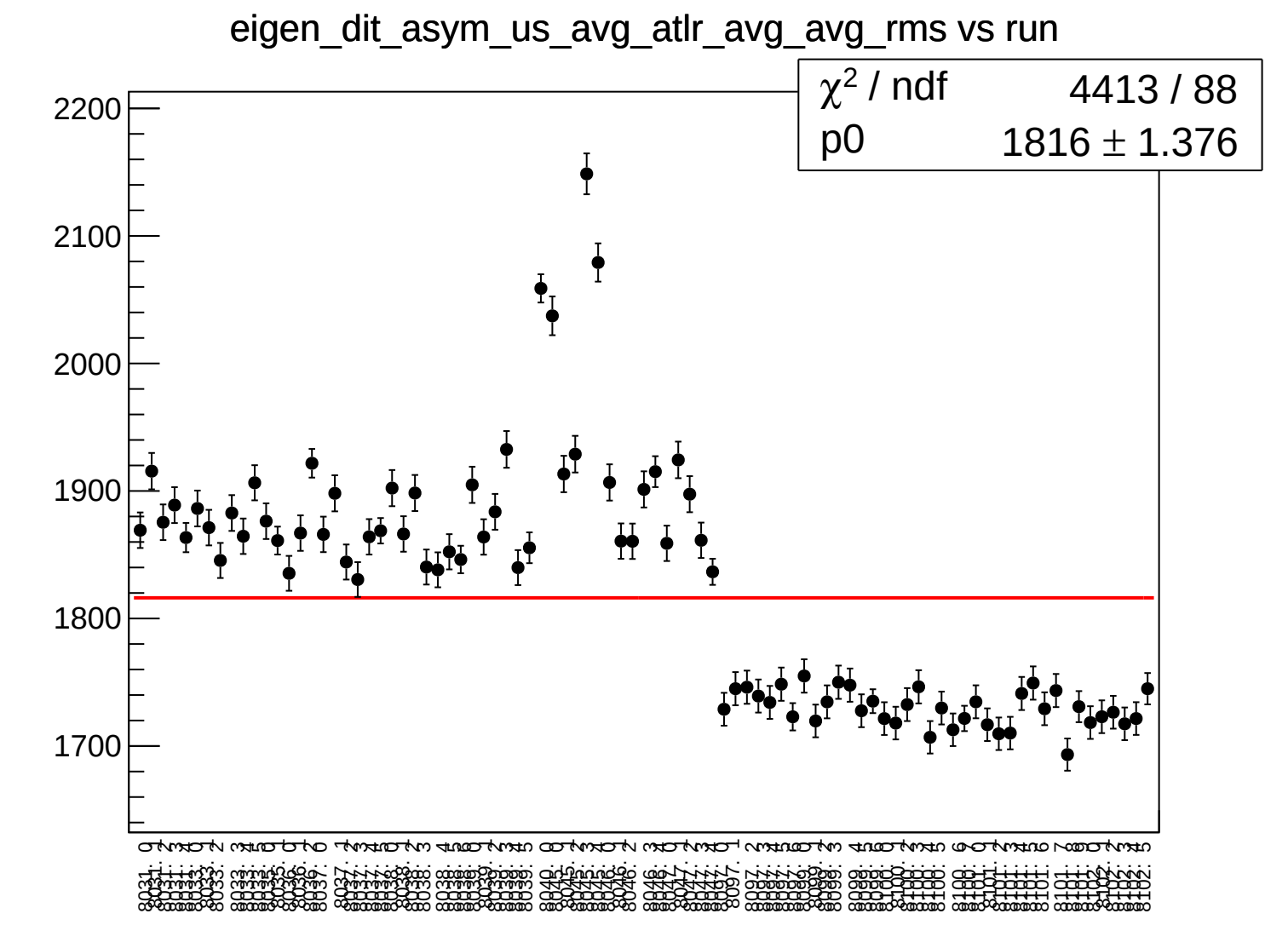

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 96.84 / 88
p0 2876 ± 7251
pull
Entries 89
Mean −184.1
Std Dev 0

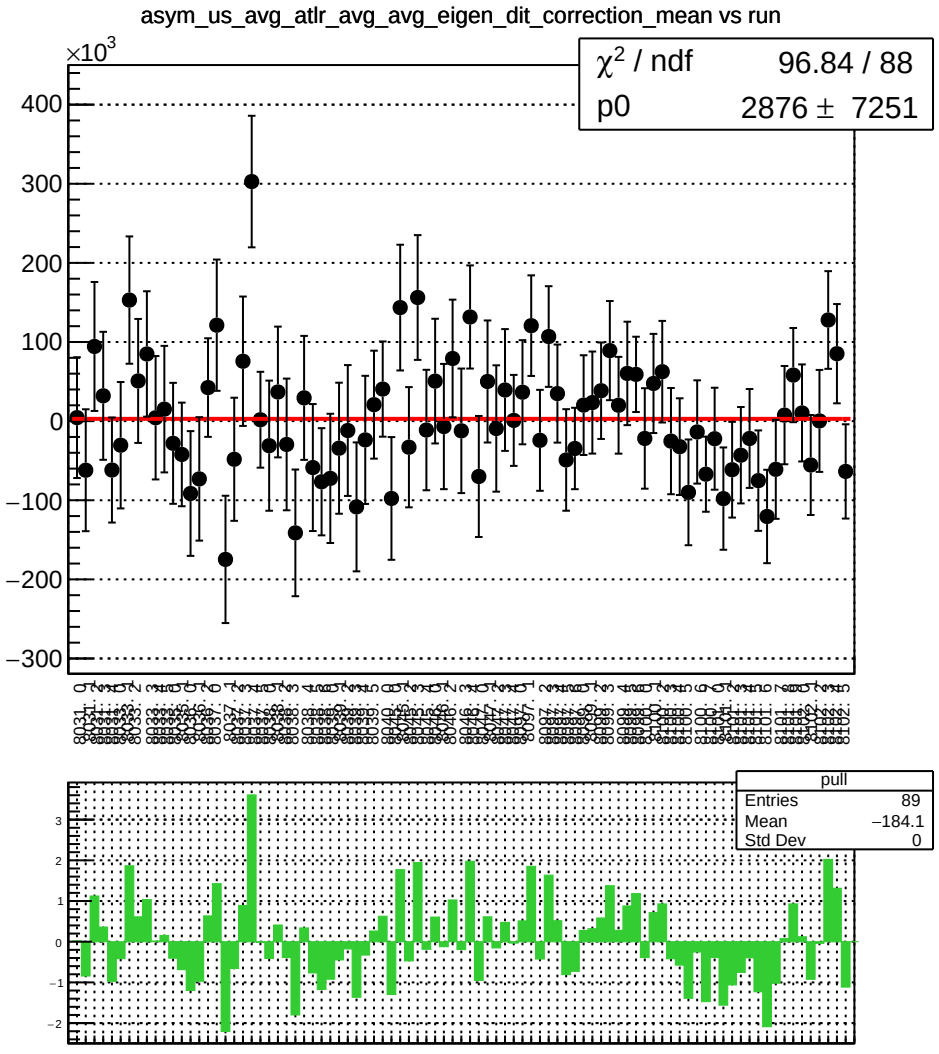

pull1D
Entries 89
Mean 0.007877
Std Dev 1.043

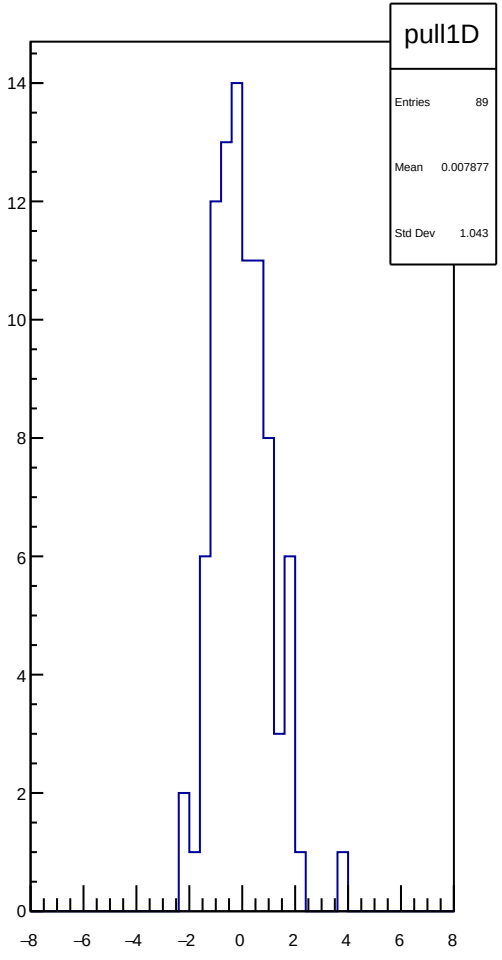

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ² / ndf 2.562e+04 / 88
p0 6728 ± 5.127
8500
8000
7500
7000
6500
6000
5500

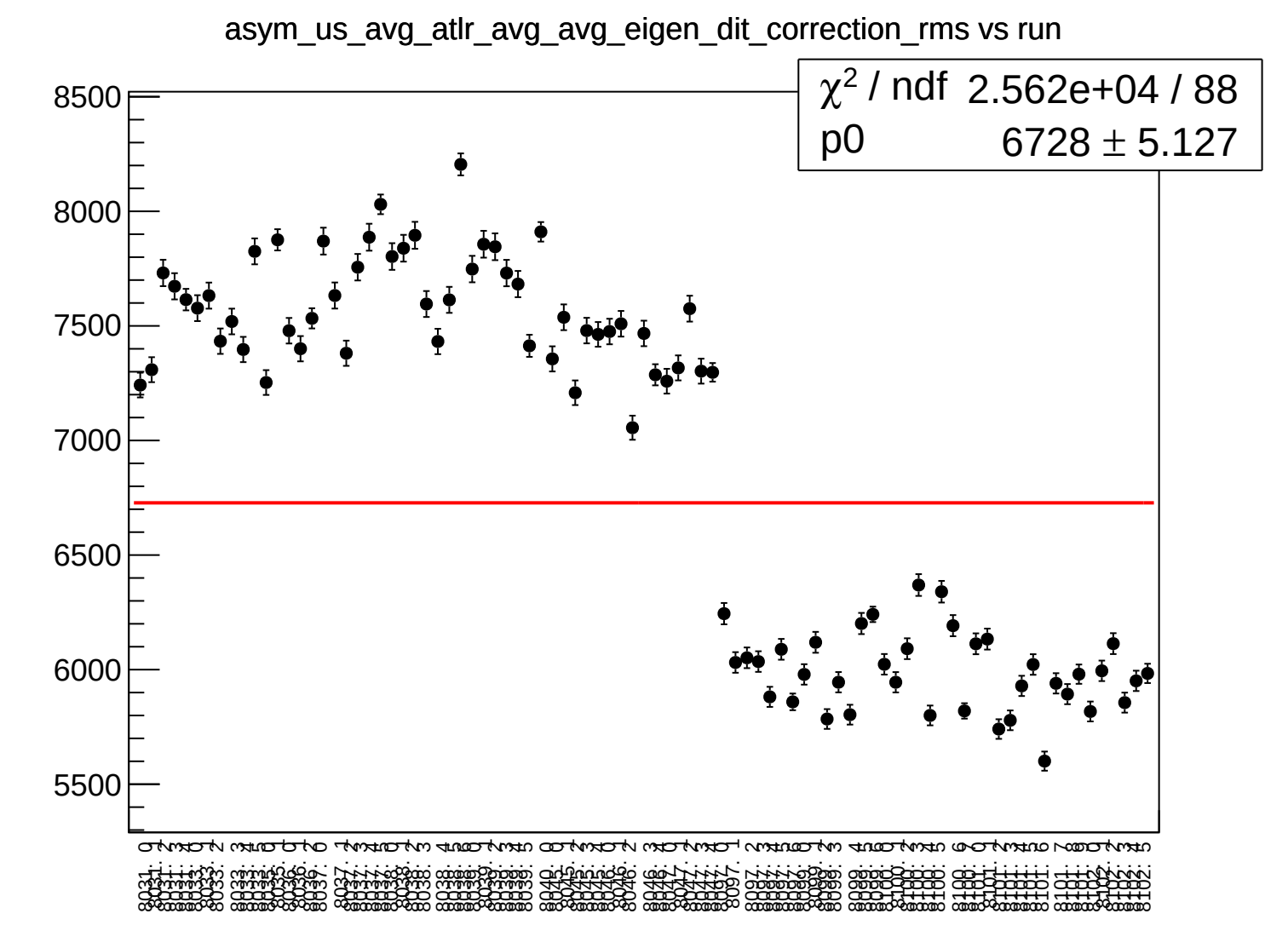

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 78.27 / 88
p0 6224 ± 1946
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 198.7
Std Dev 0
2
1
0
−1
−2

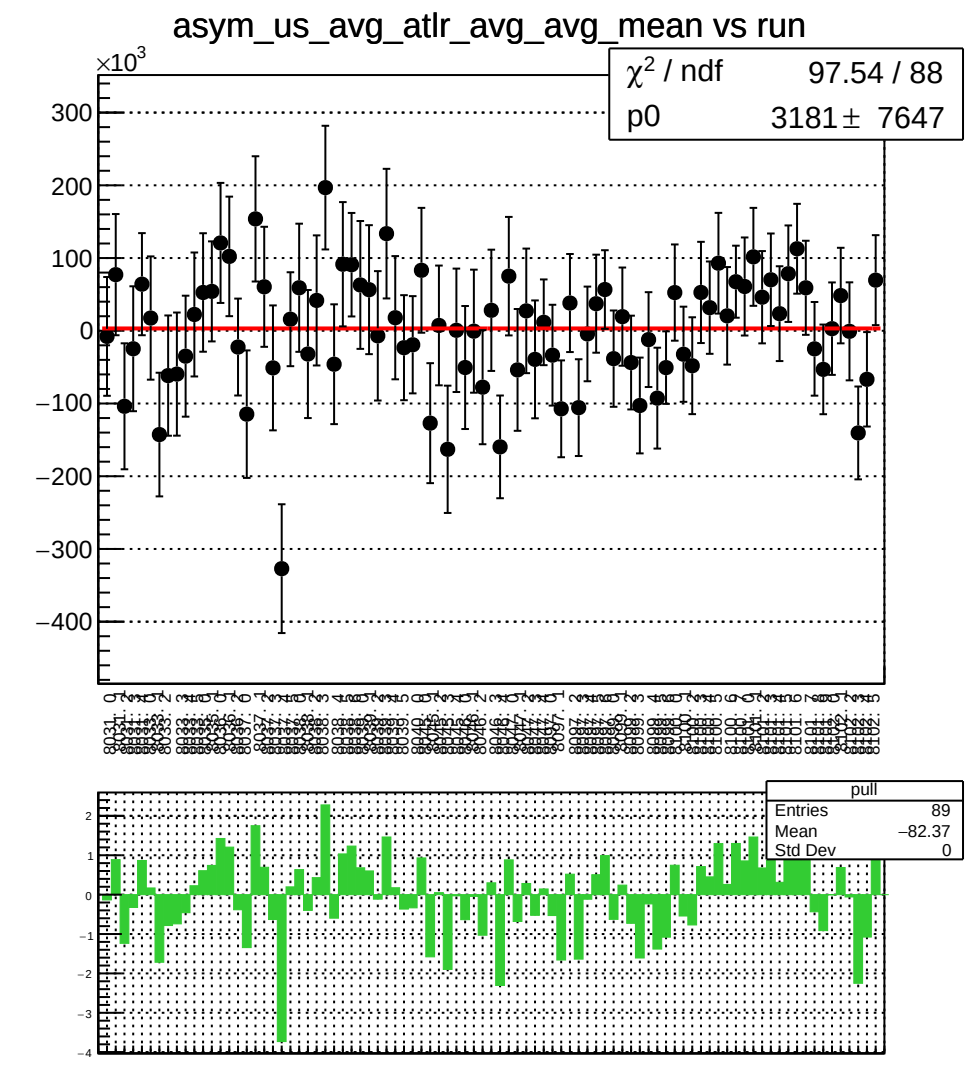

pull1D
Entries 89
Mean −0.01283
Std Dev 0.9377
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

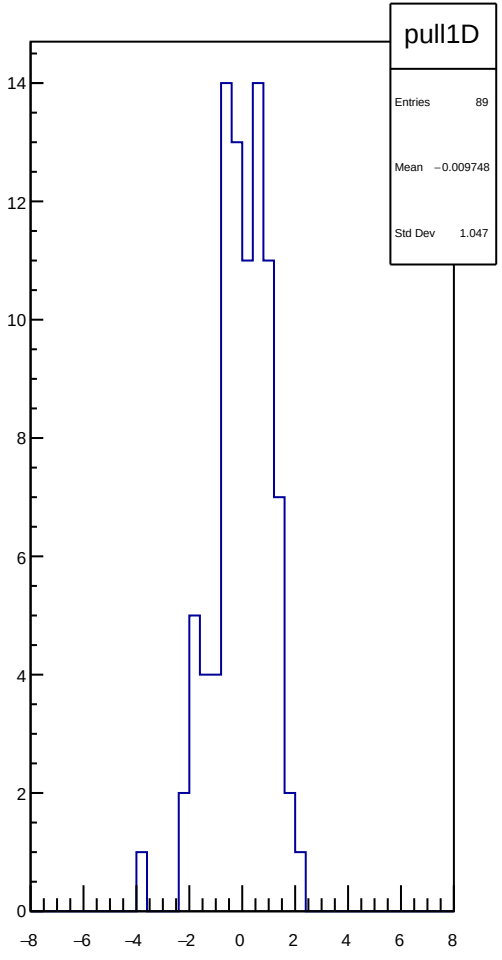

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 4413 / 88
p0 1816 ± 1.376
2200
2100
2000
1900
1800
1700

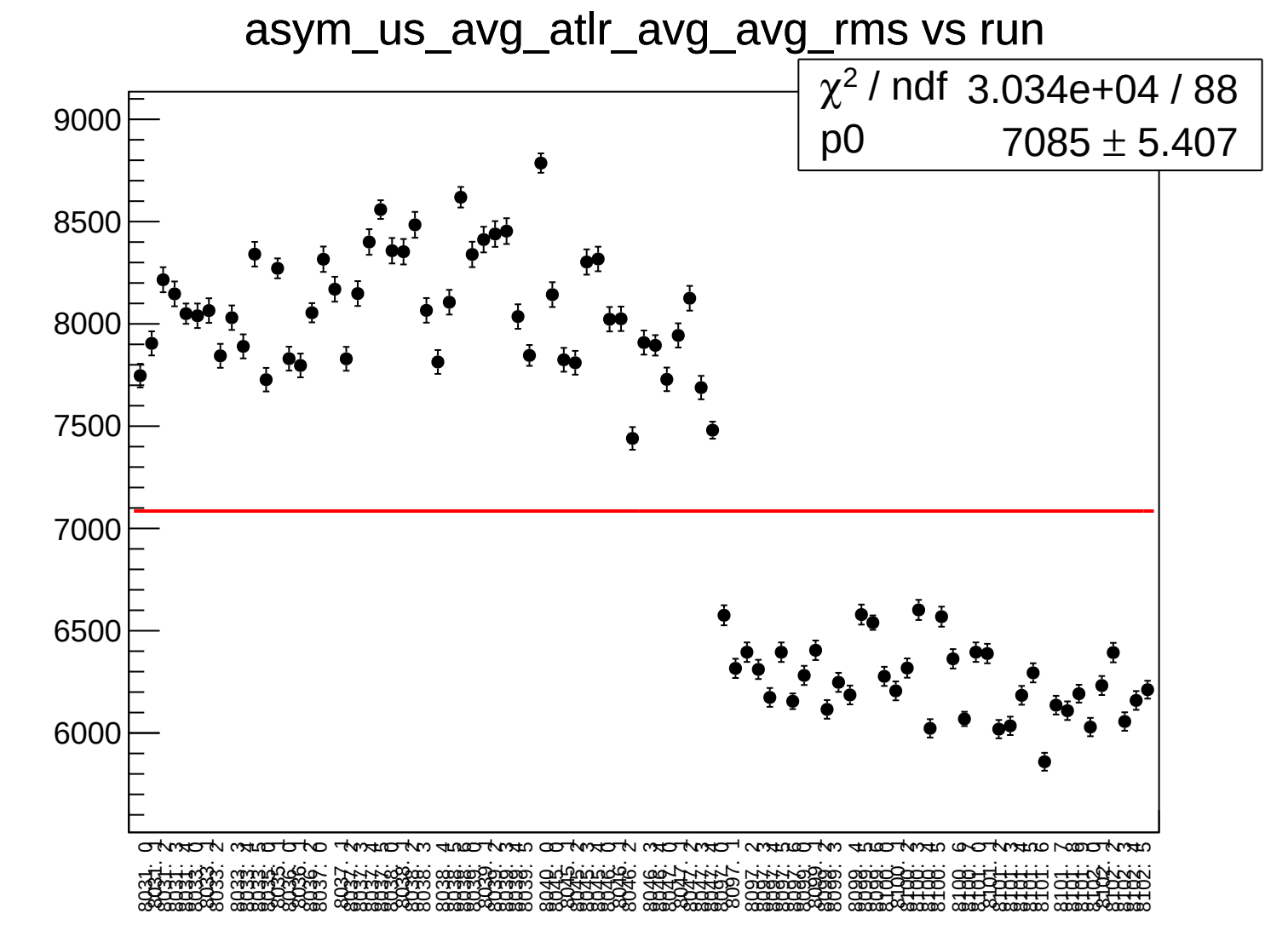

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
χ² / ndf 96.84 / 88
p0 2876 ± 7251
×10³
pull
Entries 89
Mean −184.1
Std Dev 0

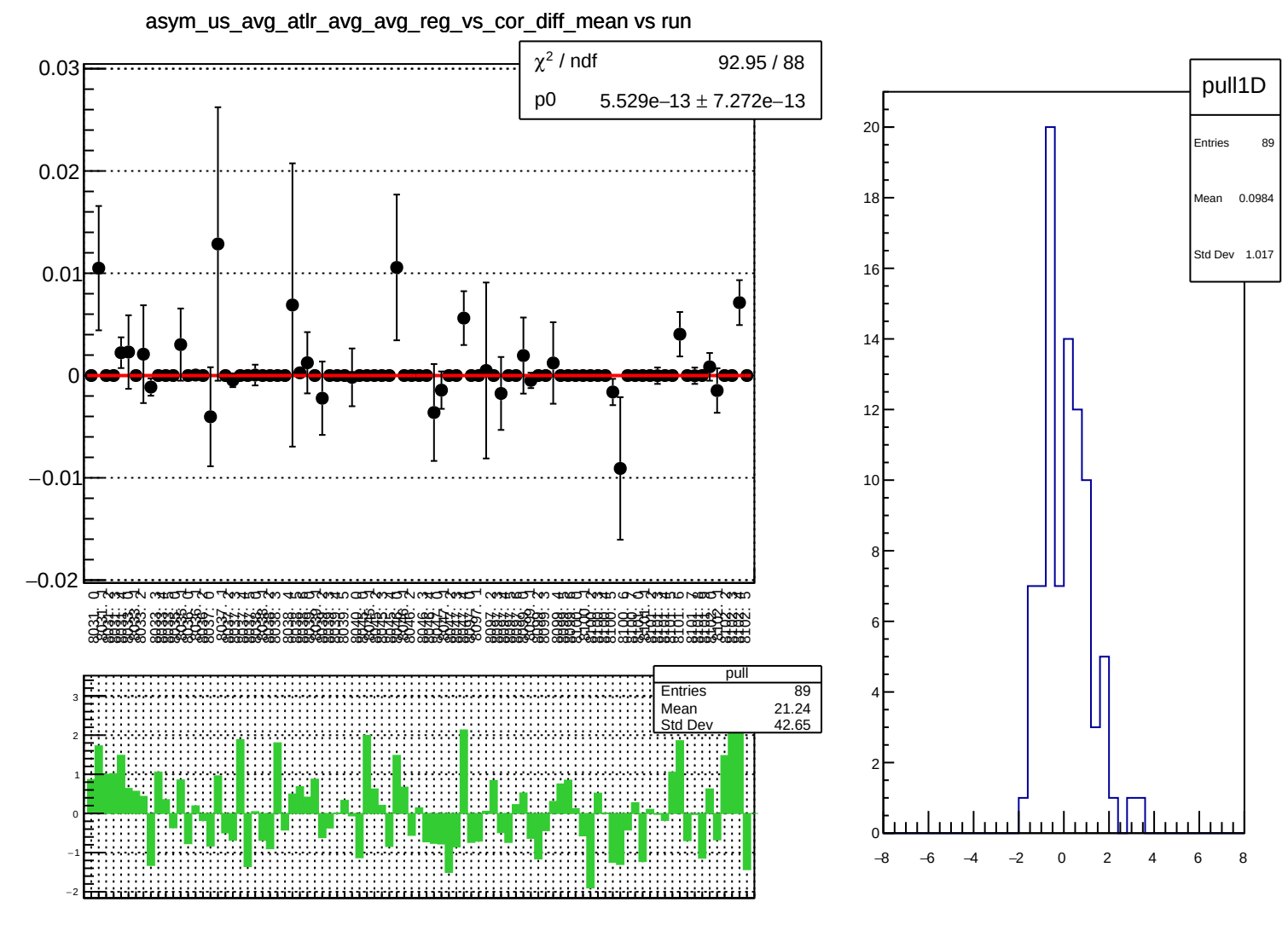

pull1D
Entries 89
Mean 0.007877
Std Dev 1.043

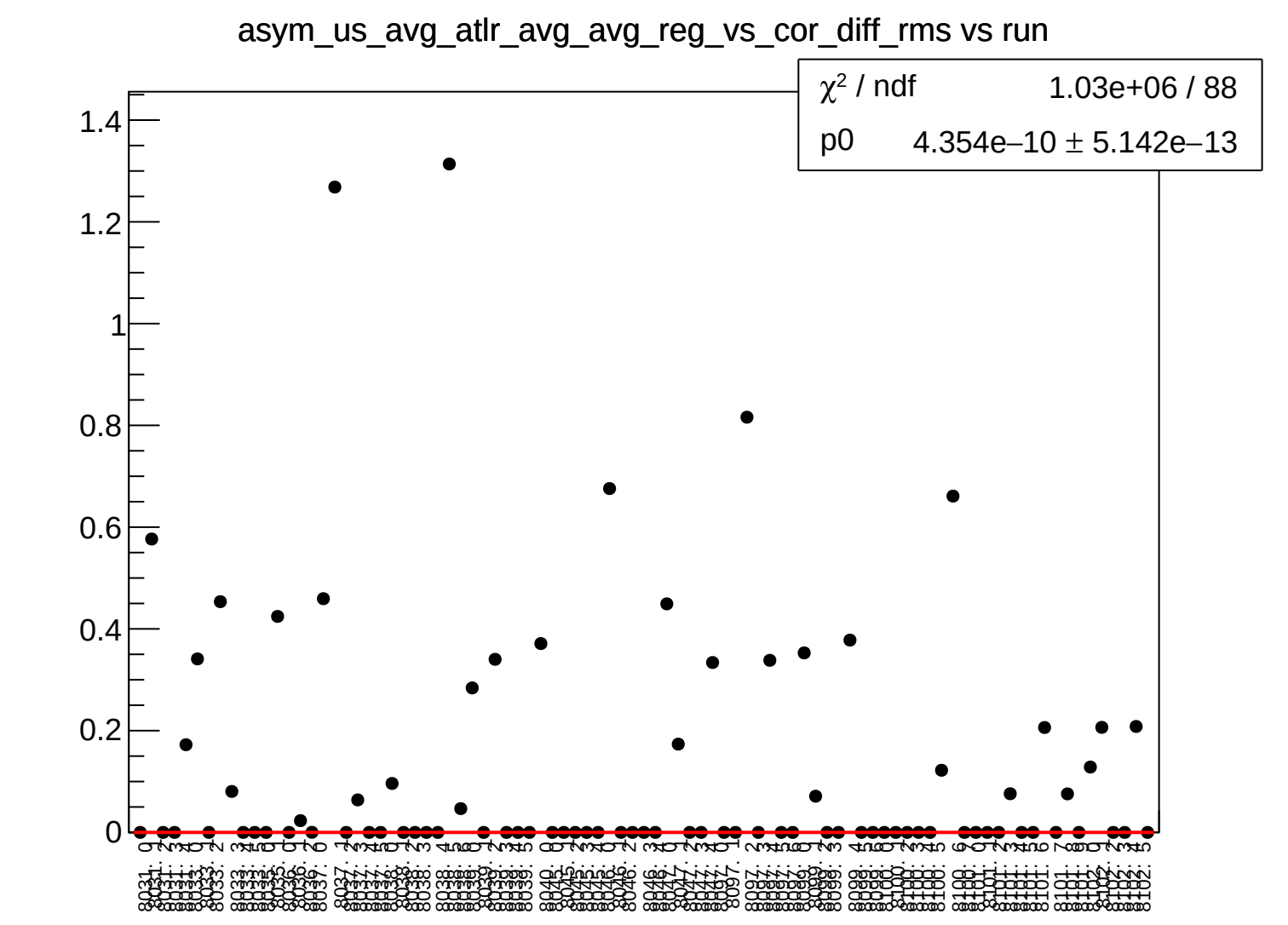

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.562e+04 / 88
p0 6728 ± 5.127
8500
8000
7500
7000
6500
6000
5500

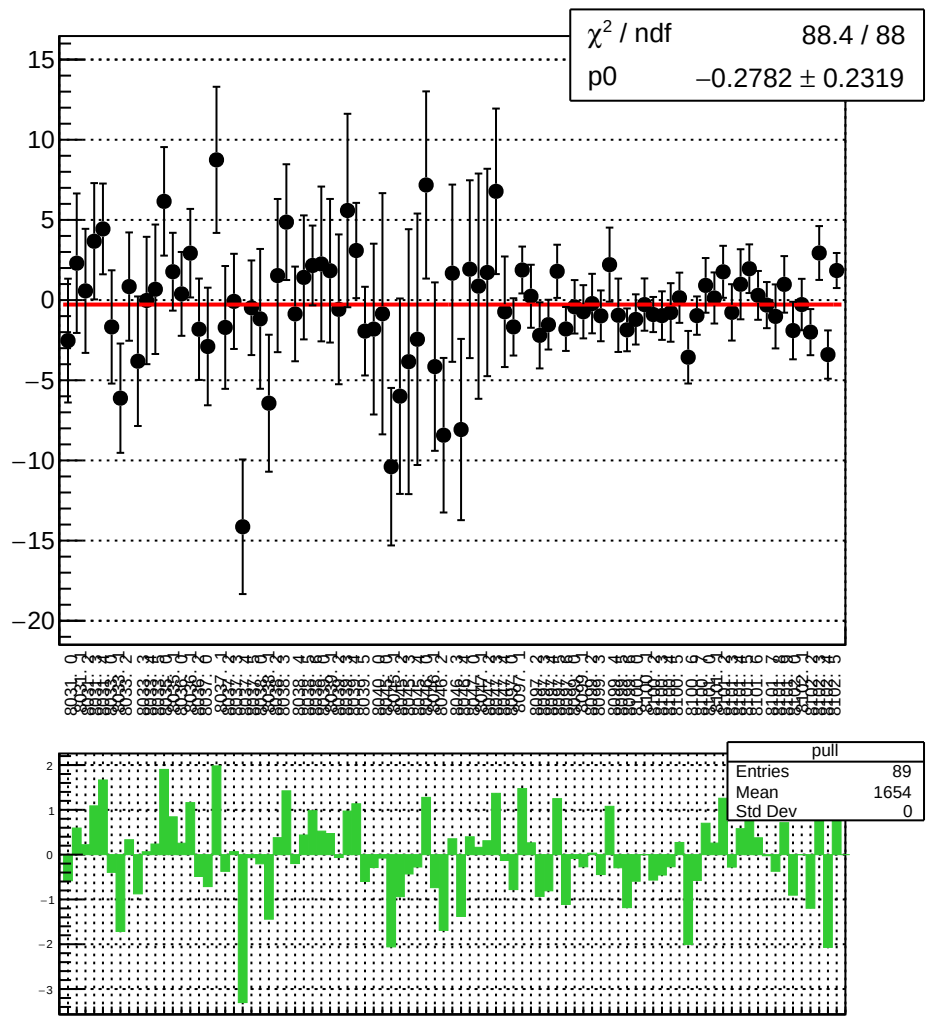

asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 97.54 / 88
p0 3181 ± 7647
×10³
300
200
100
0
−100
−200
−300
−400
pull
Entries 89
Mean −82.37
Std Dev 0
2
1
0
−1
−2
−3
−4

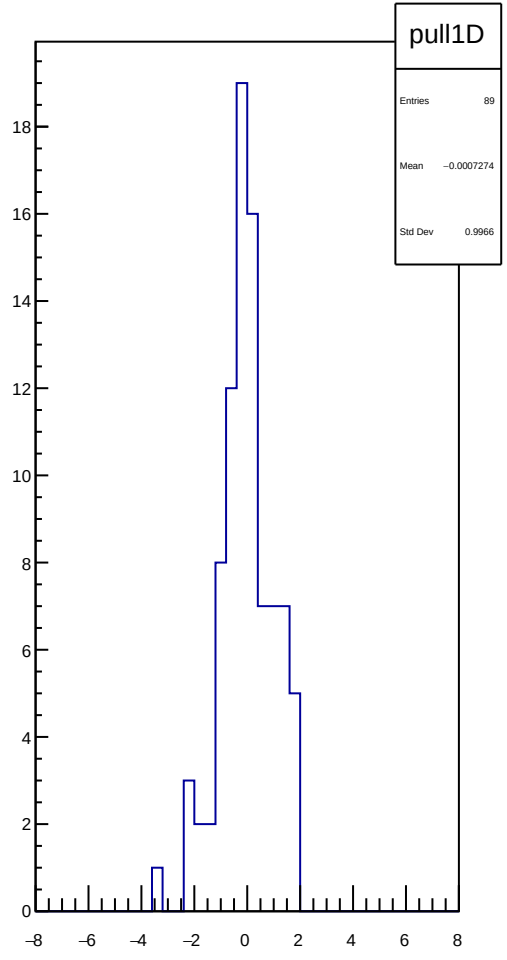

pull1D
Entries 89
Mean −0.009748
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

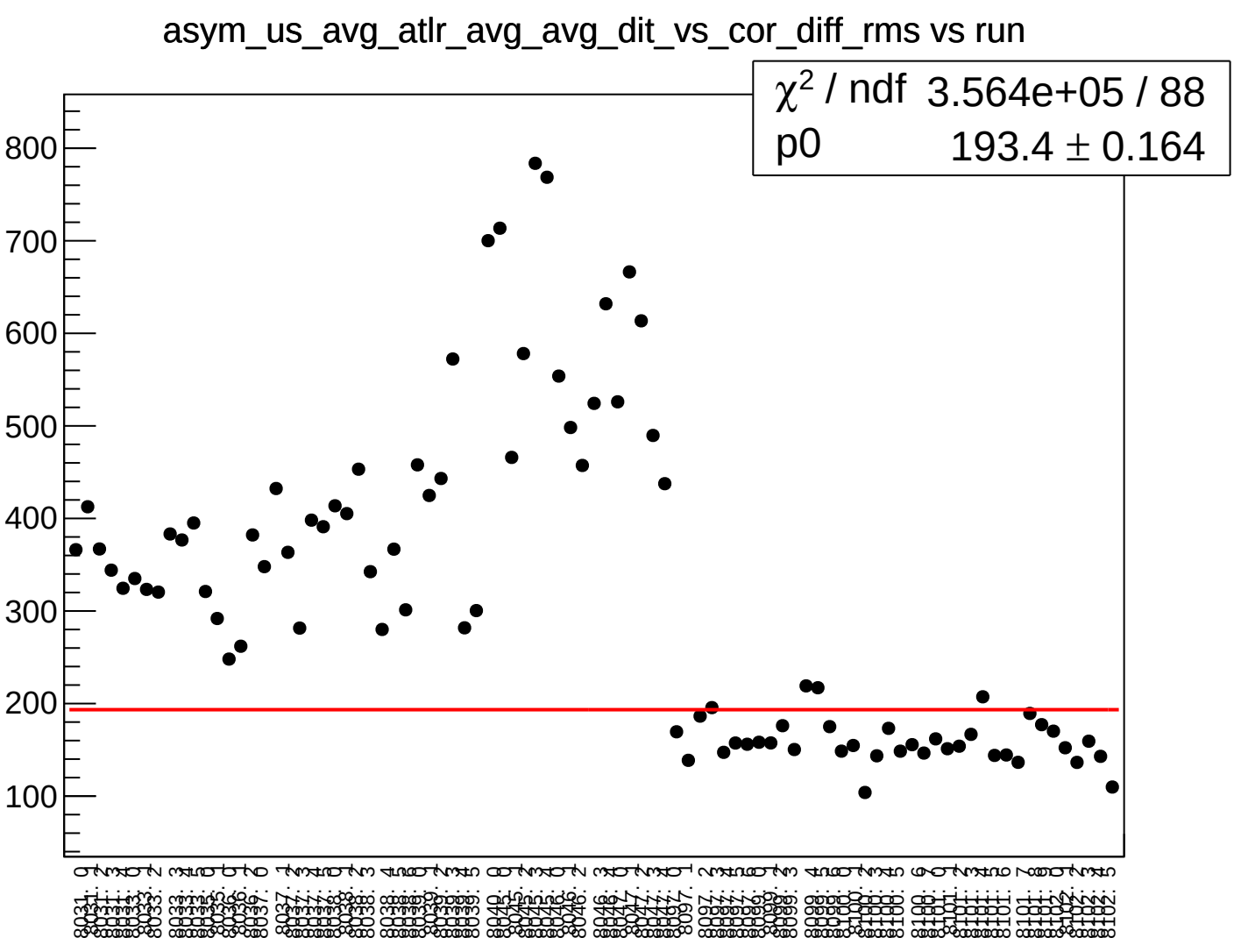

asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 3.034e+04 / 88
p0 7085 ± 5.407
9000
8500
8000
7500
7000
6500
6000

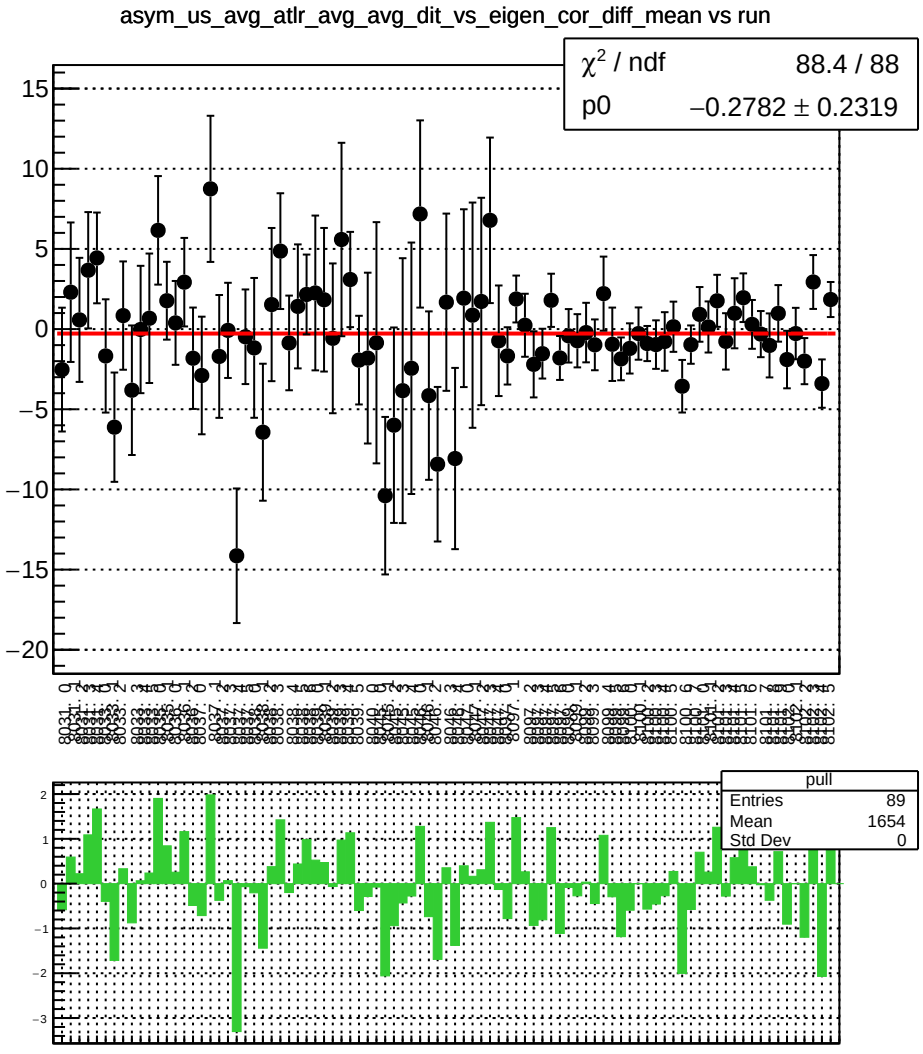

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 92.95 / 88
p0 5.529e−13 ± 7.272e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 89
Mean 21.24
Std Dev 42.65
pull1D
Entries 89
Mean 0.0984
Std Dev 1.017

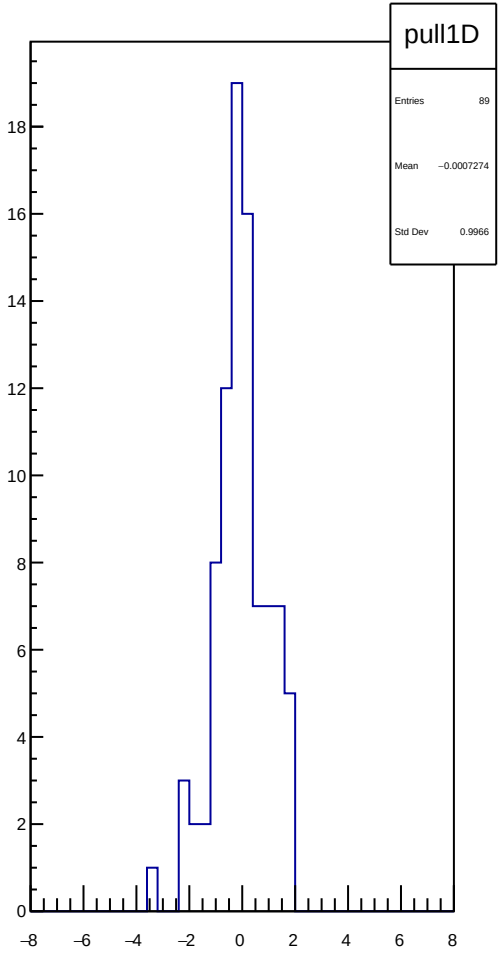

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.03e+06 / 88
p0 4.354e−10 ± 5.142e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

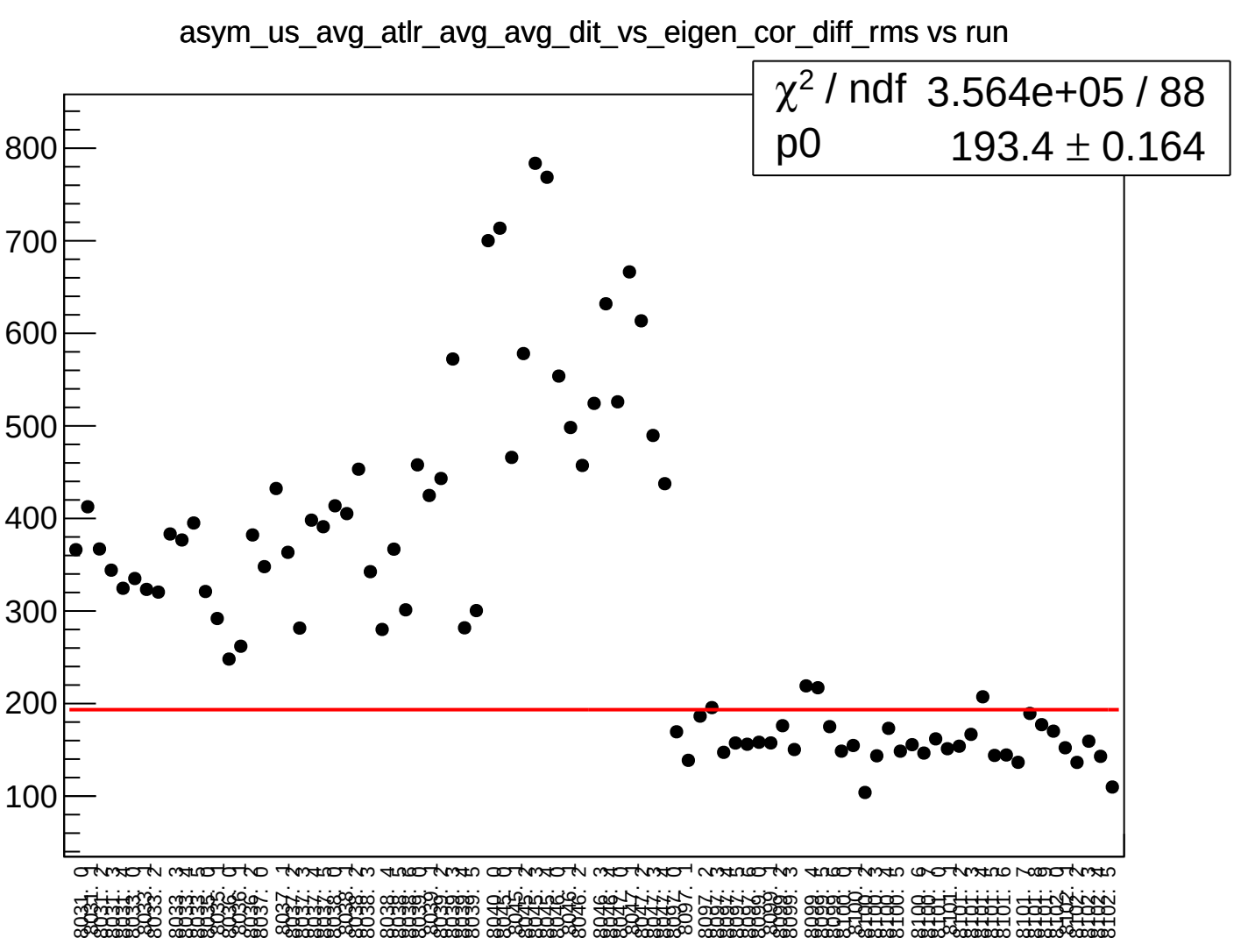

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 88.4 / 88
p0 −0.2782 ± 0.2319
pull
Entries 89
Mean 1654
Std Dev 0

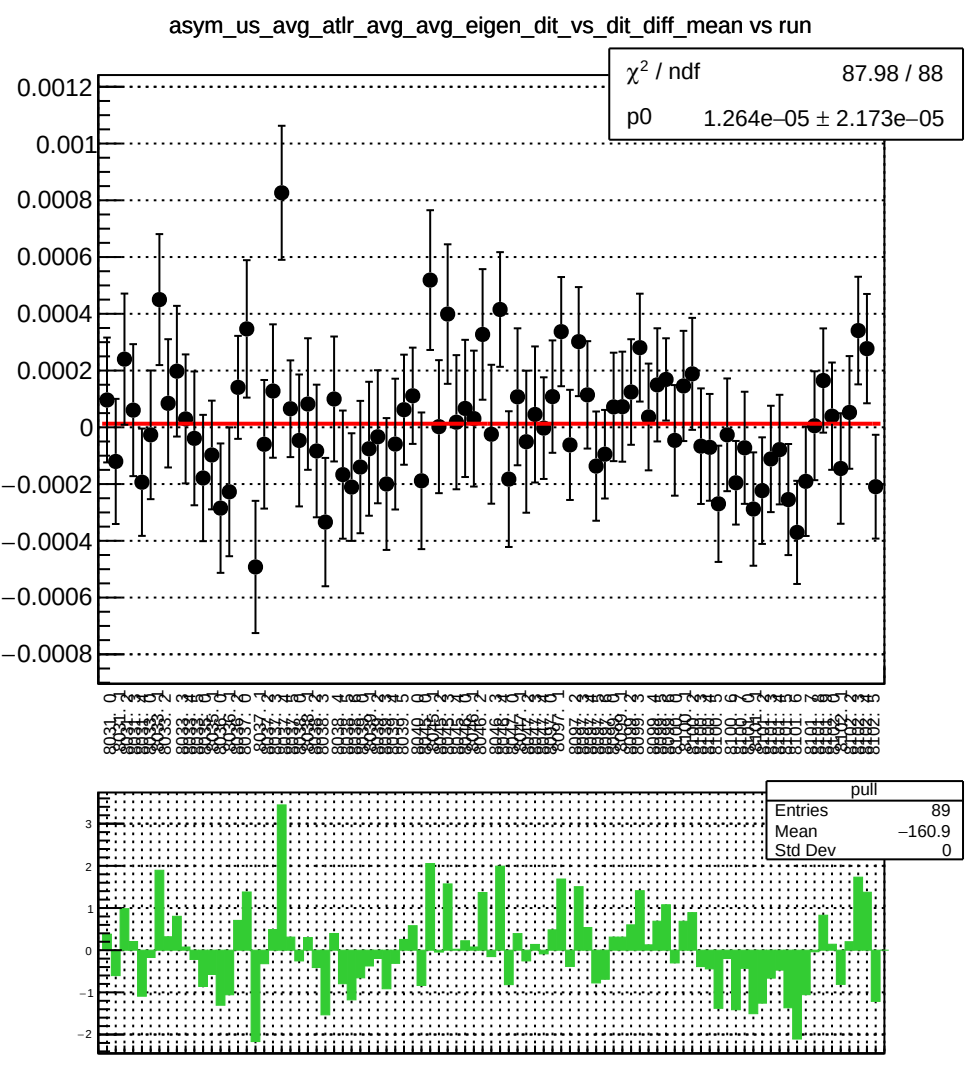

pull1D
Entries 89
Mean −0.0007274
Std Dev 0.9966

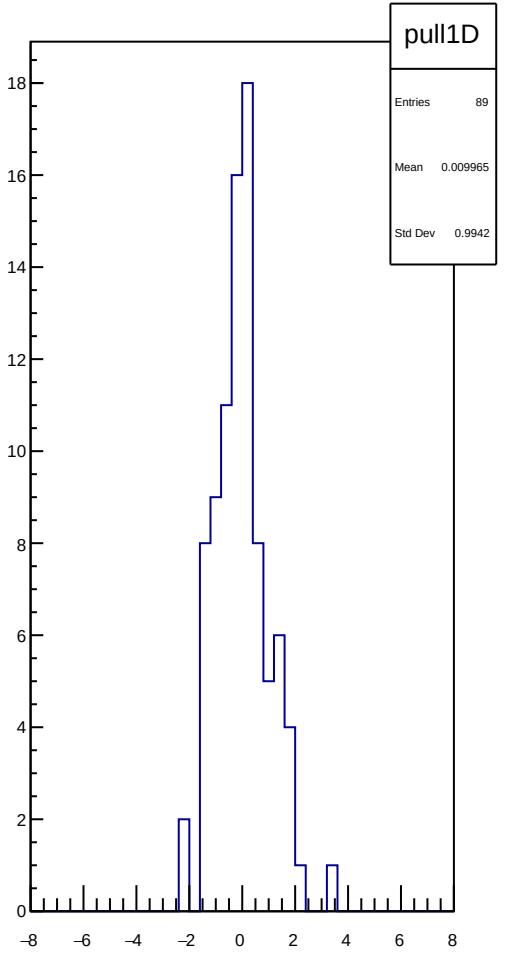

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.564e+05 / 88
p0 193.4 ± 0.164
800
700
600
500
400
300
200
100

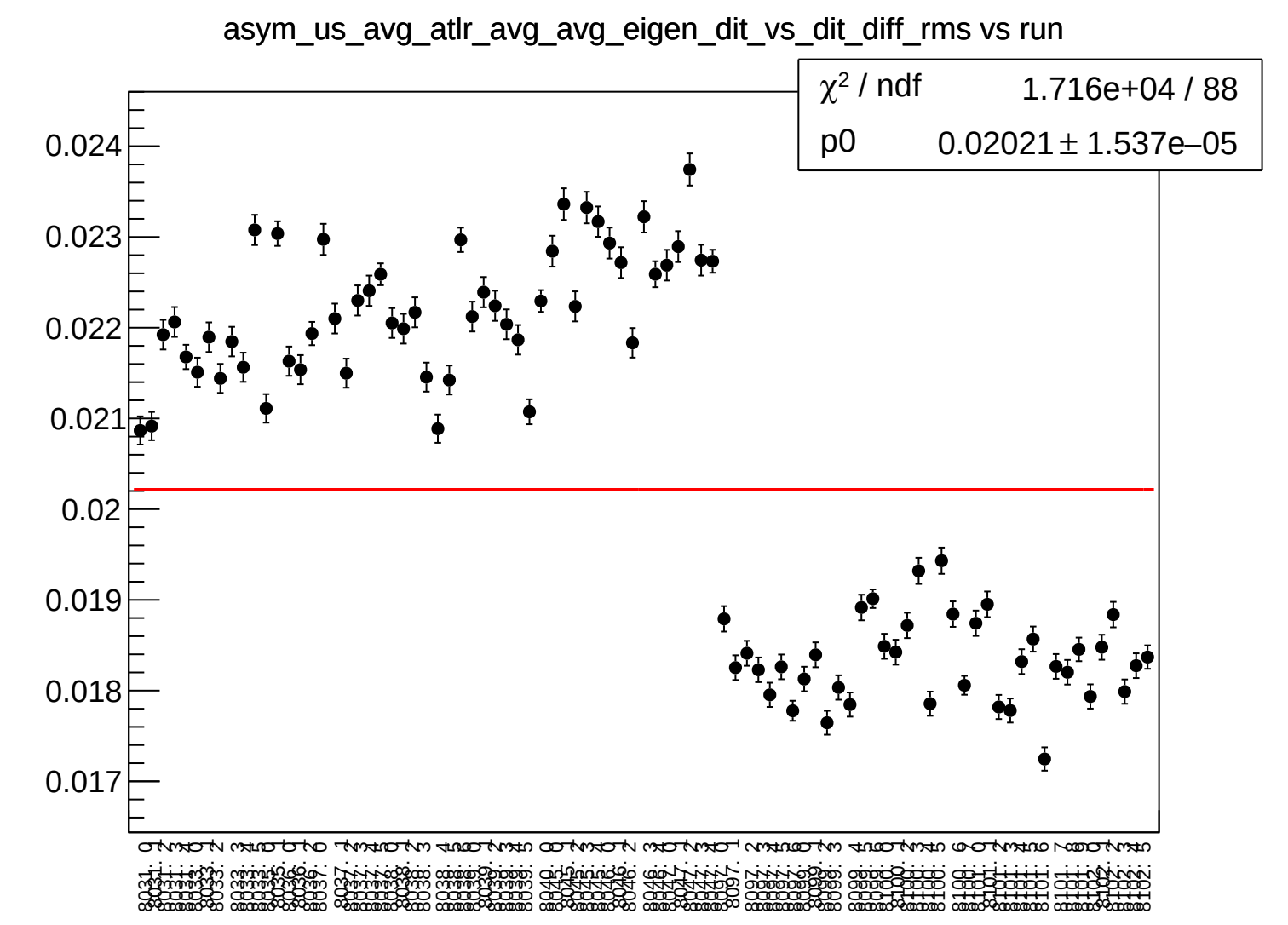

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.4 / 88
p0 −0.2782 ± 0.2319
pull
Entries 89
Mean 1654
Std Dev 0

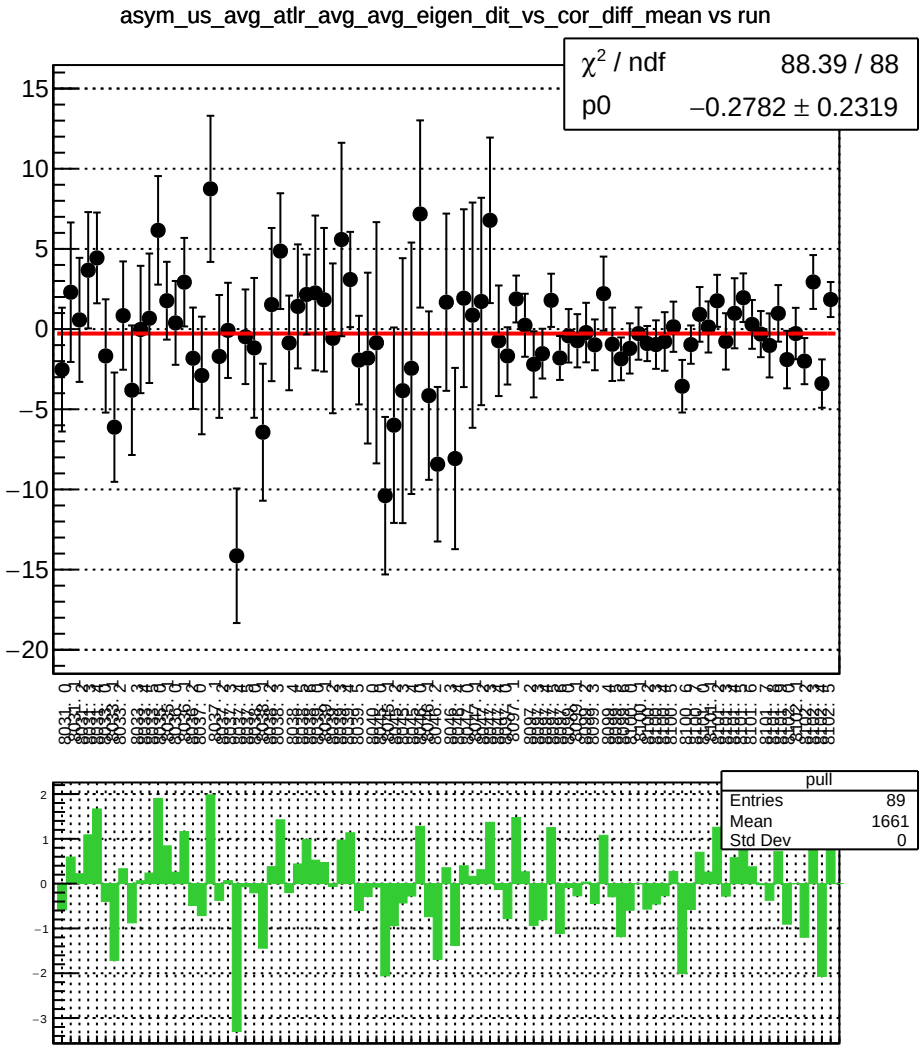

pull1D
Entries 89
Mean −0.0007274
Std Dev 0.9966

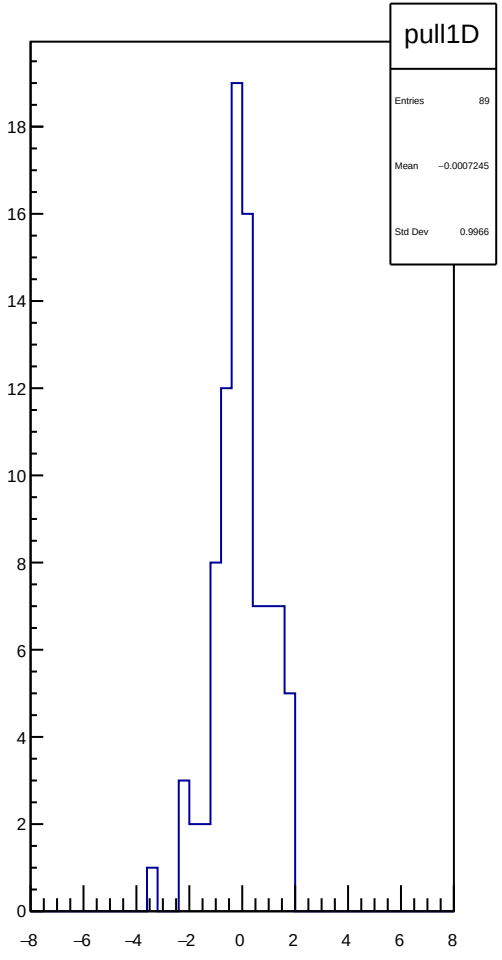

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.564e+05 / 88
p0 193.4 ± 0.164
800
700
600
500
400
300
200
100

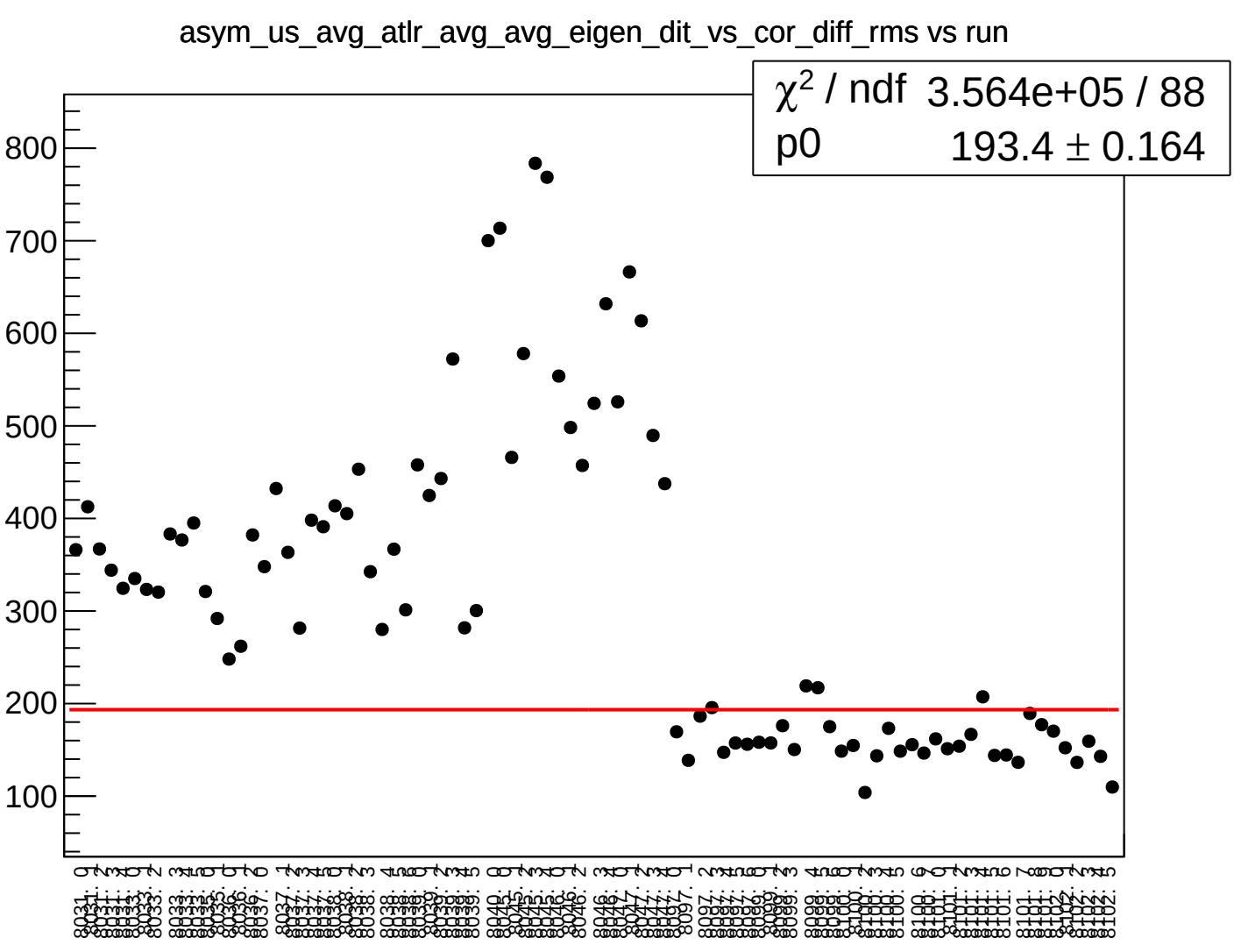

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 87.98 / 88
p0 1.264e−05 ± 2.173e−05
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 89
Mean −160.9
Std Dev 0
3
2
1
0
−1
−2

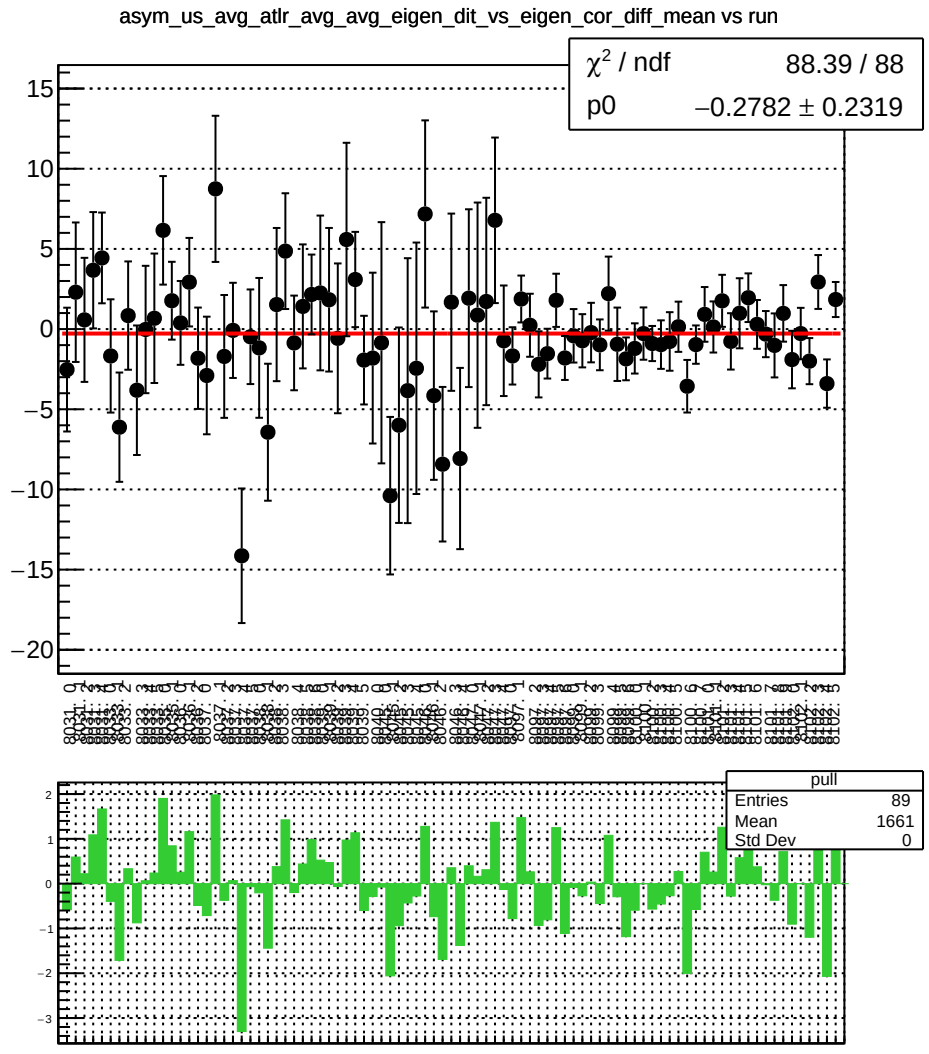

pull1D
Entries 89
Mean 0.009965
Std Dev 0.9942
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

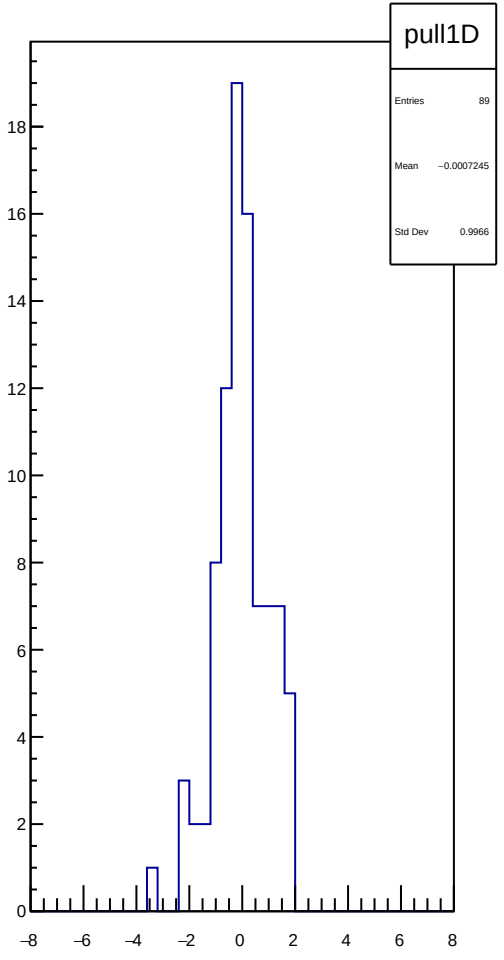

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.716e+04 / 88
p0 0.02021 ± 1.537e–05
0.024
0.023
0.022
0.021
0.02
0.019
0.018
0.017

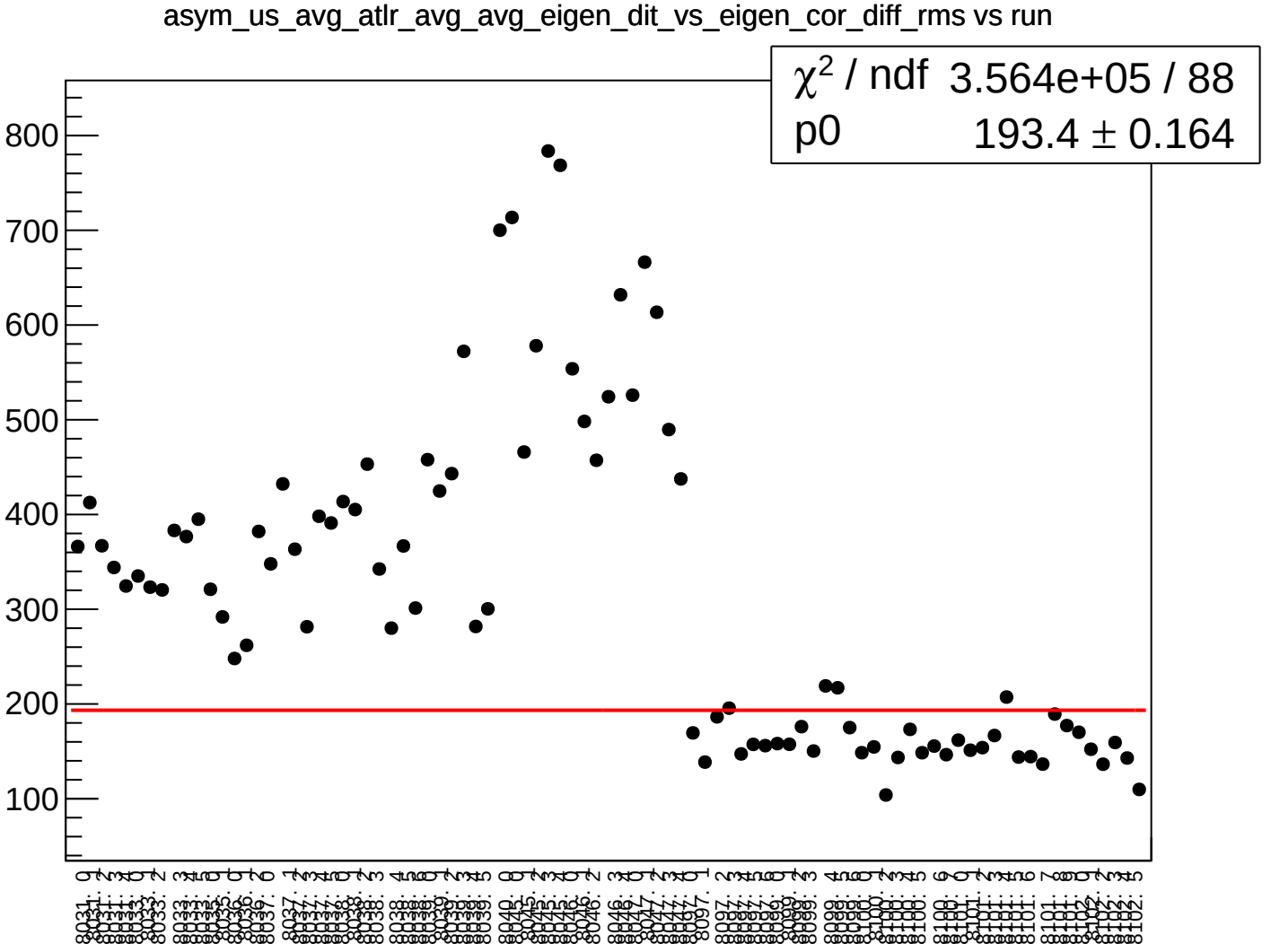

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.39 / 88
p0 −0.2782 ± 0.2319
pull
Entries 89
Mean 1661
Std Dev 0

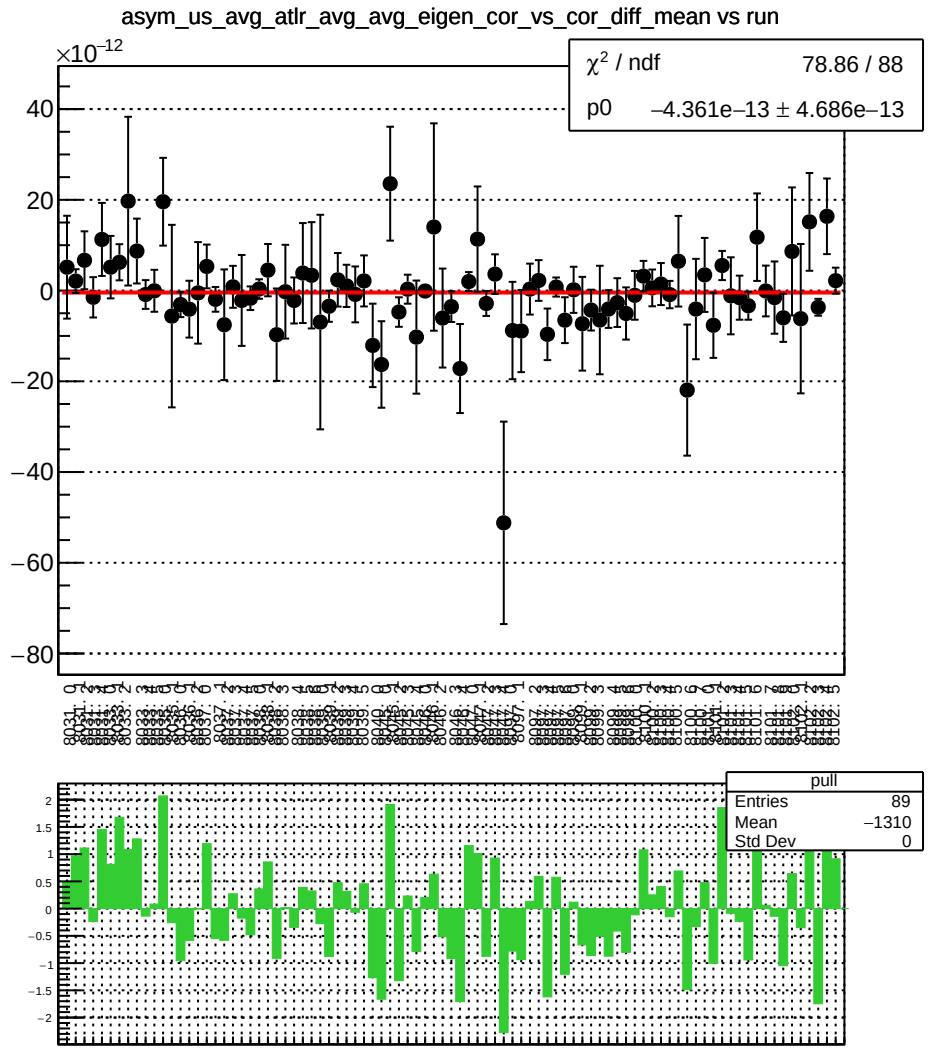

pull1D
Entries 89
Mean −0.0007245
Std Dev 0.9966

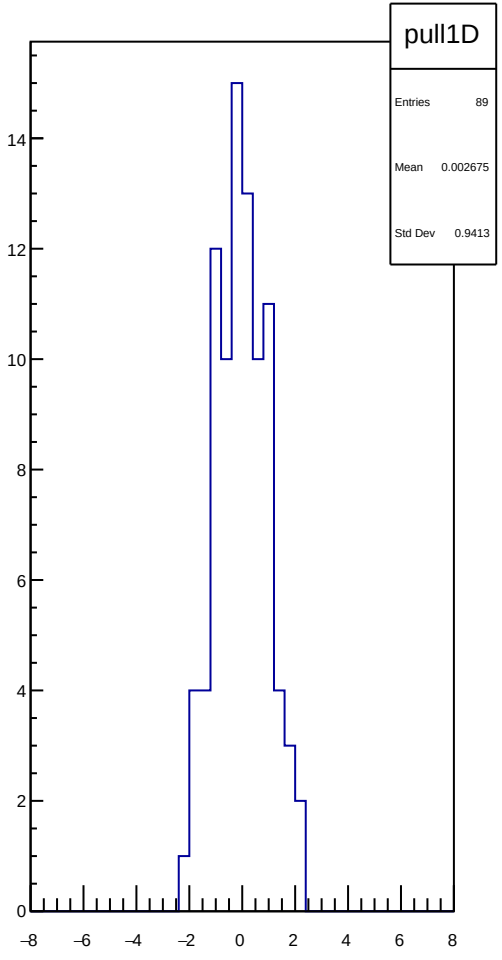

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.564e+05 / 88
p0 193.4 ± 0.164
800
700
600
500
400
300
200
100

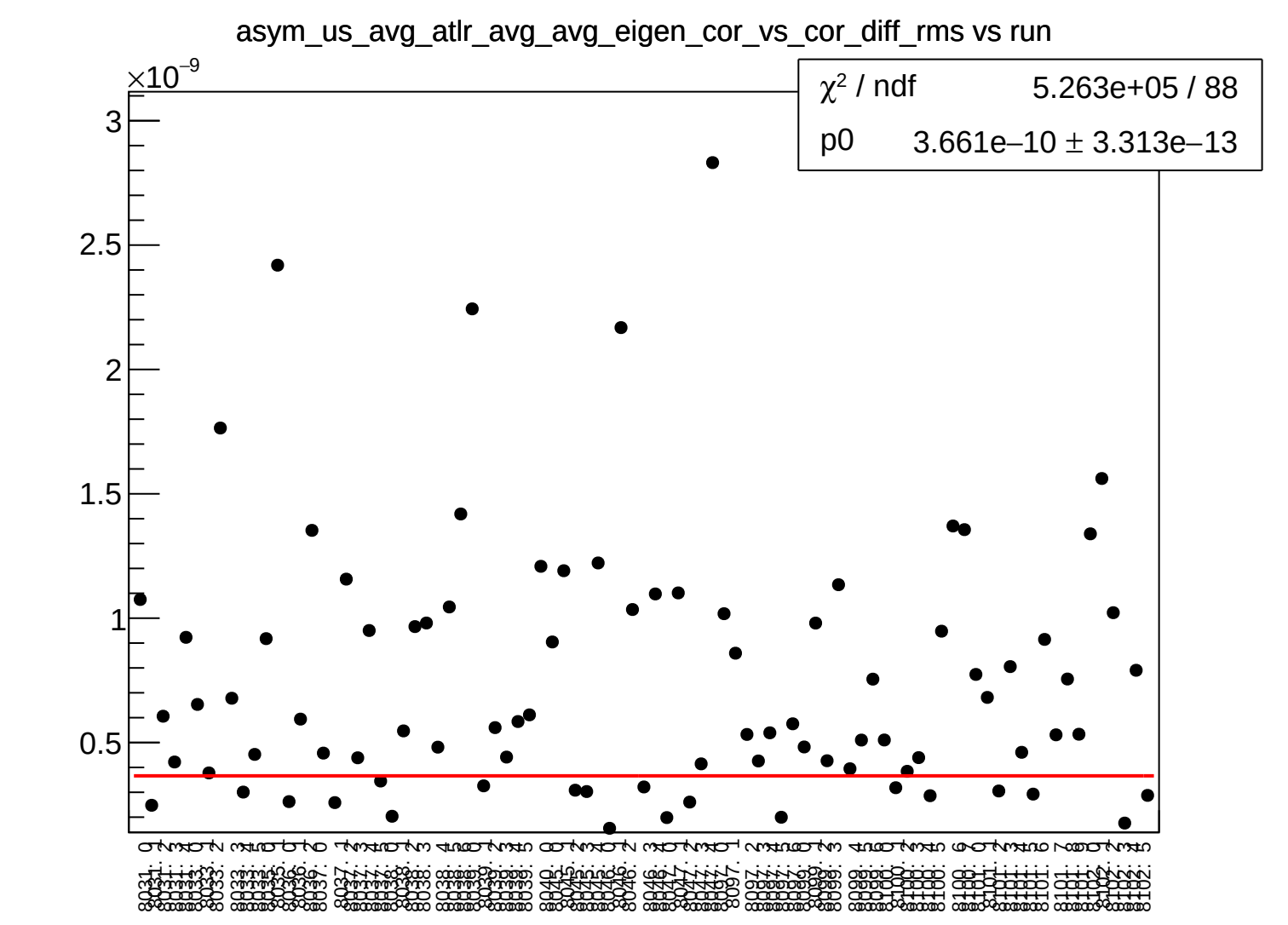

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.39 / 88
p0 −0.2782 ± 0.2319
pull
Entries 89
Mean 1661
Std Dev 0

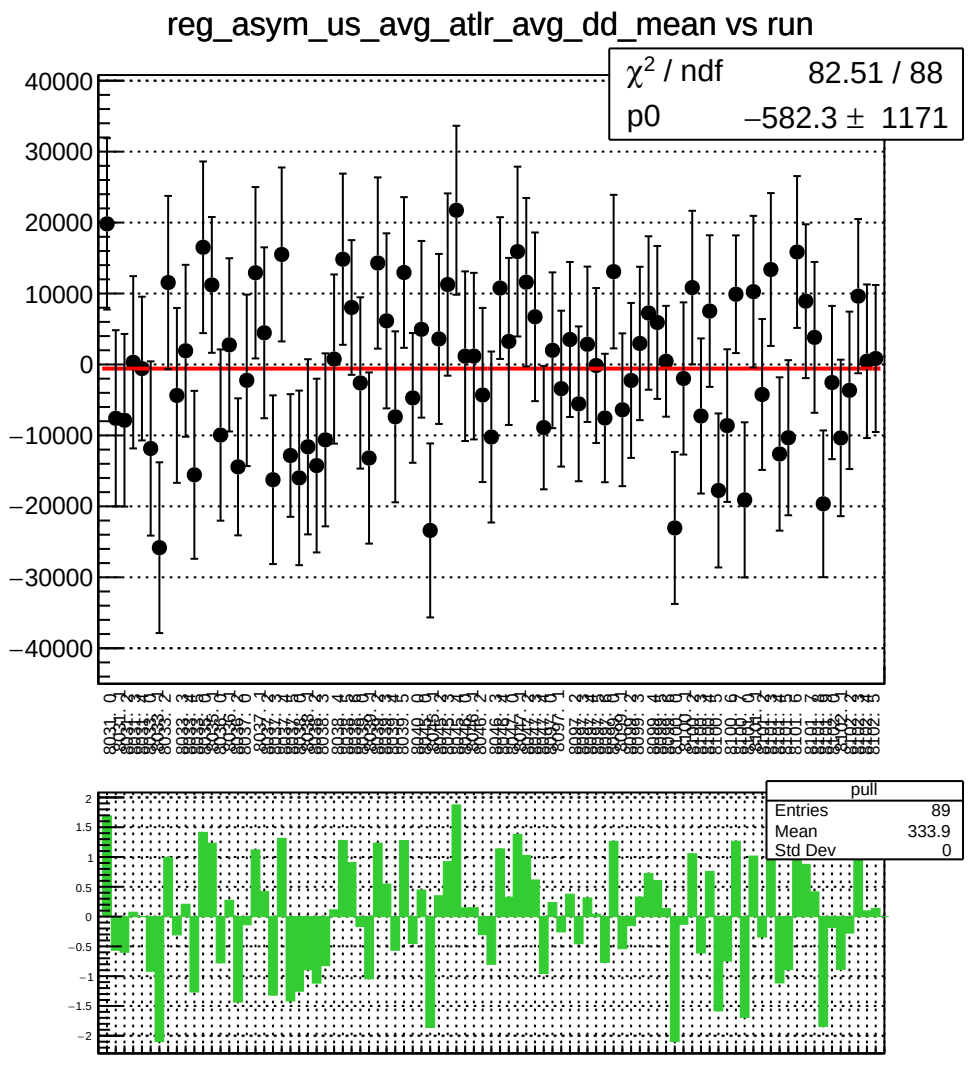

pull1D
Entries 89
Mean −0.0007245
Std Dev 0.9966

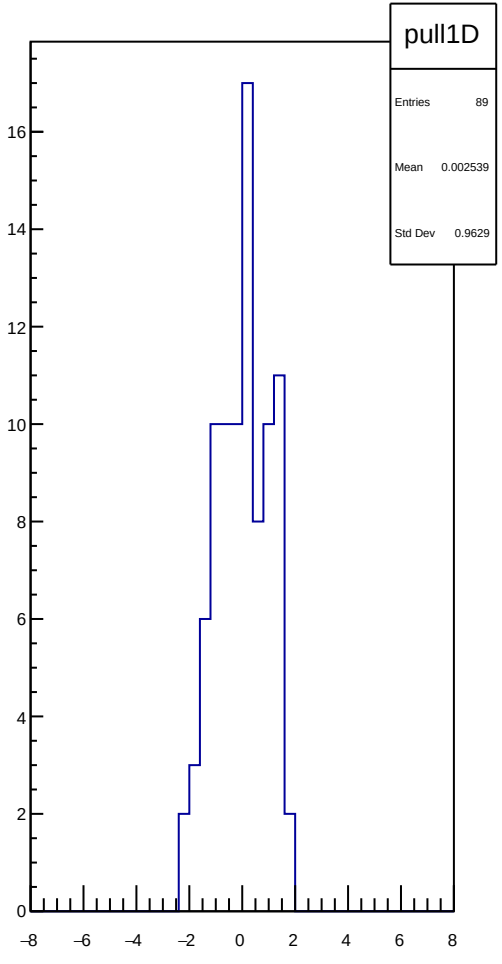

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.564e+05 / 88
p0 193.4 ± 0.164
800
700
600
500
400
300
200
100

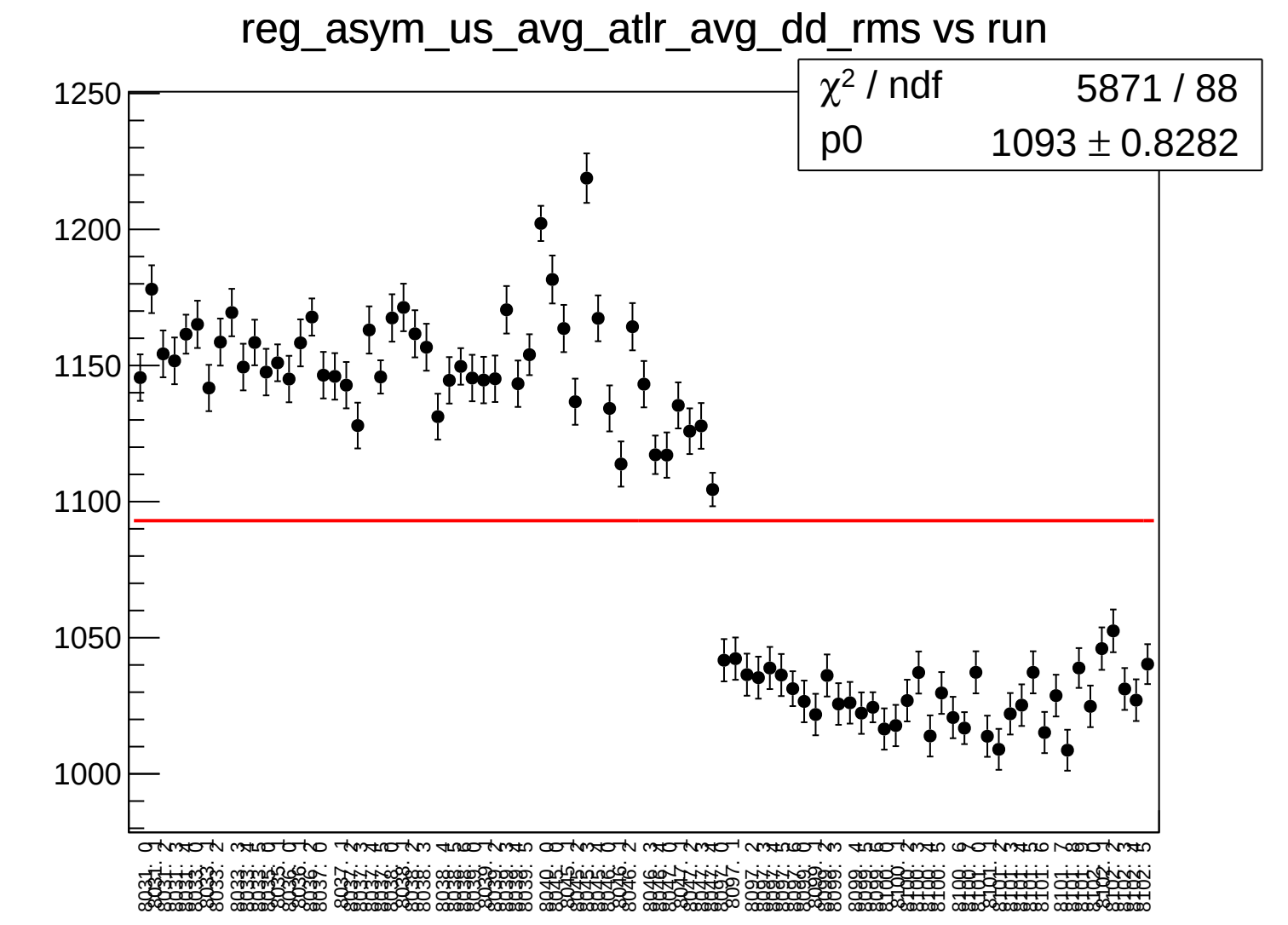

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.86 / 88
p0 −4.361e−13 ± 4.686e−13
pull
Entries 89
Mean −1310
Std Dev 0

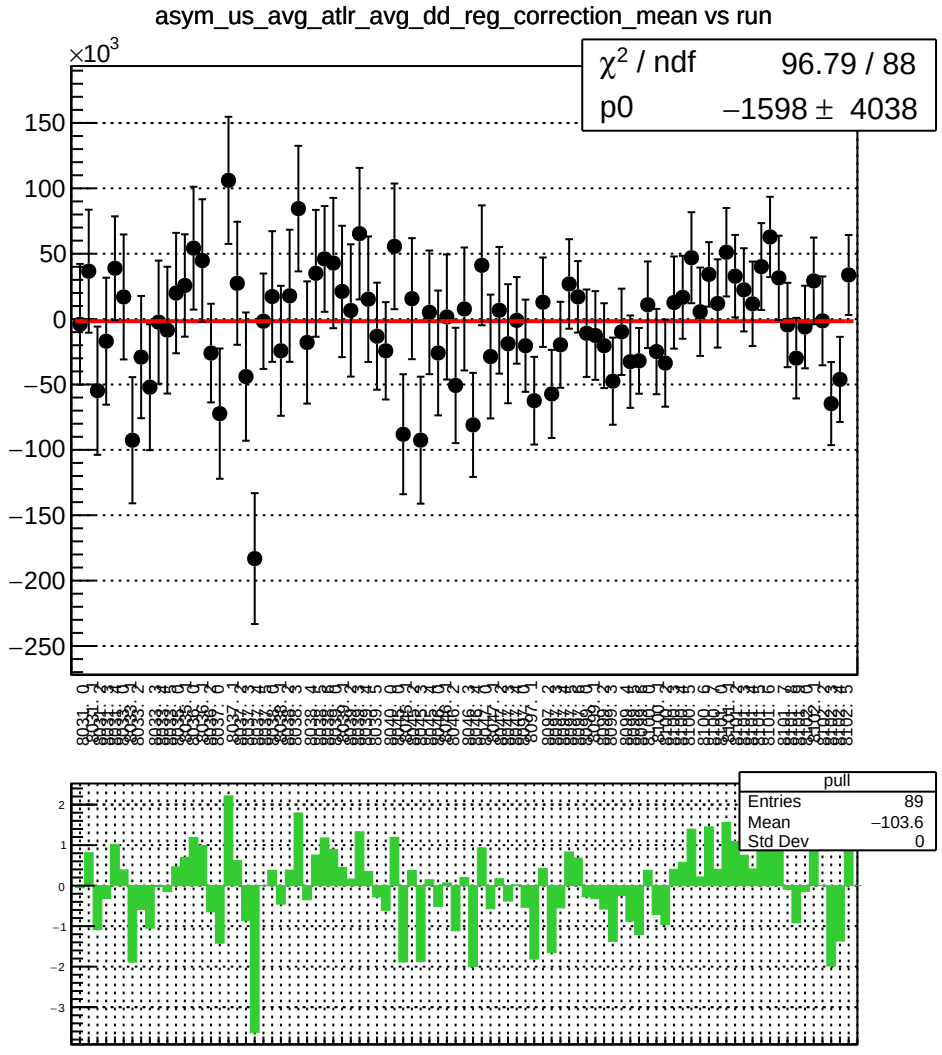

pull1D
Entries 89
Mean 0.002675
Std Dev 0.9413

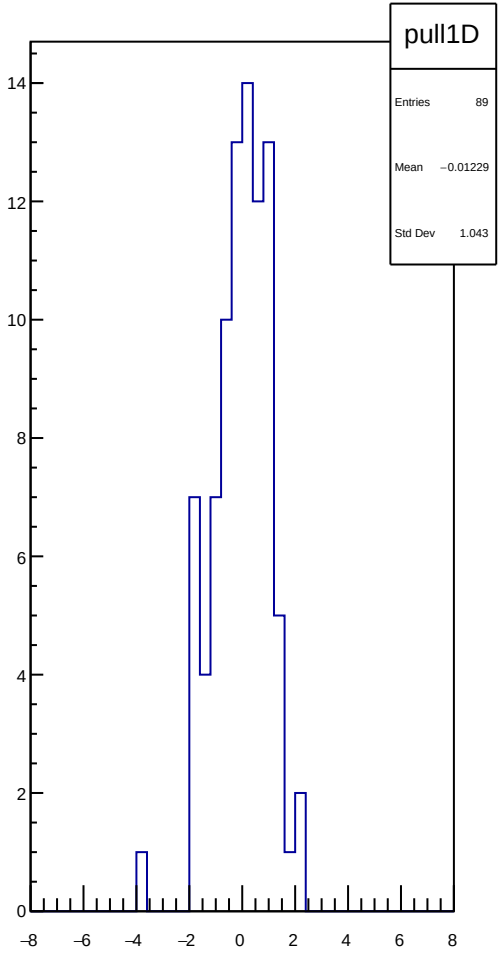

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.263e+05 / 88
p0 3.661e−10 ± 3.313e−13
3
2.5
2
1.5
1
0.5

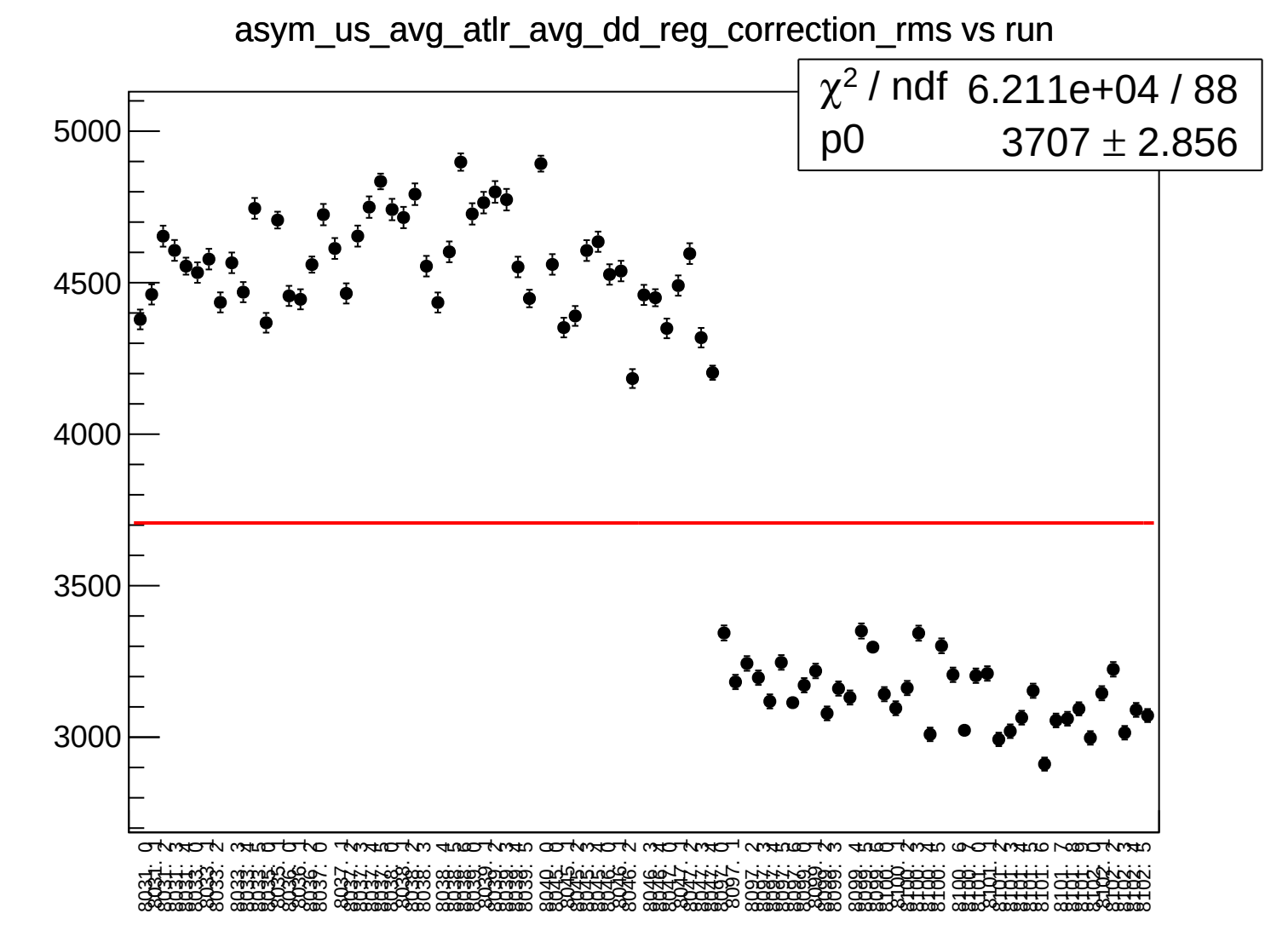

reg_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 82.51 / 88
p0 −582.3 ± 1171
pull
Entries 89
Mean 333.9
Std Dev 0

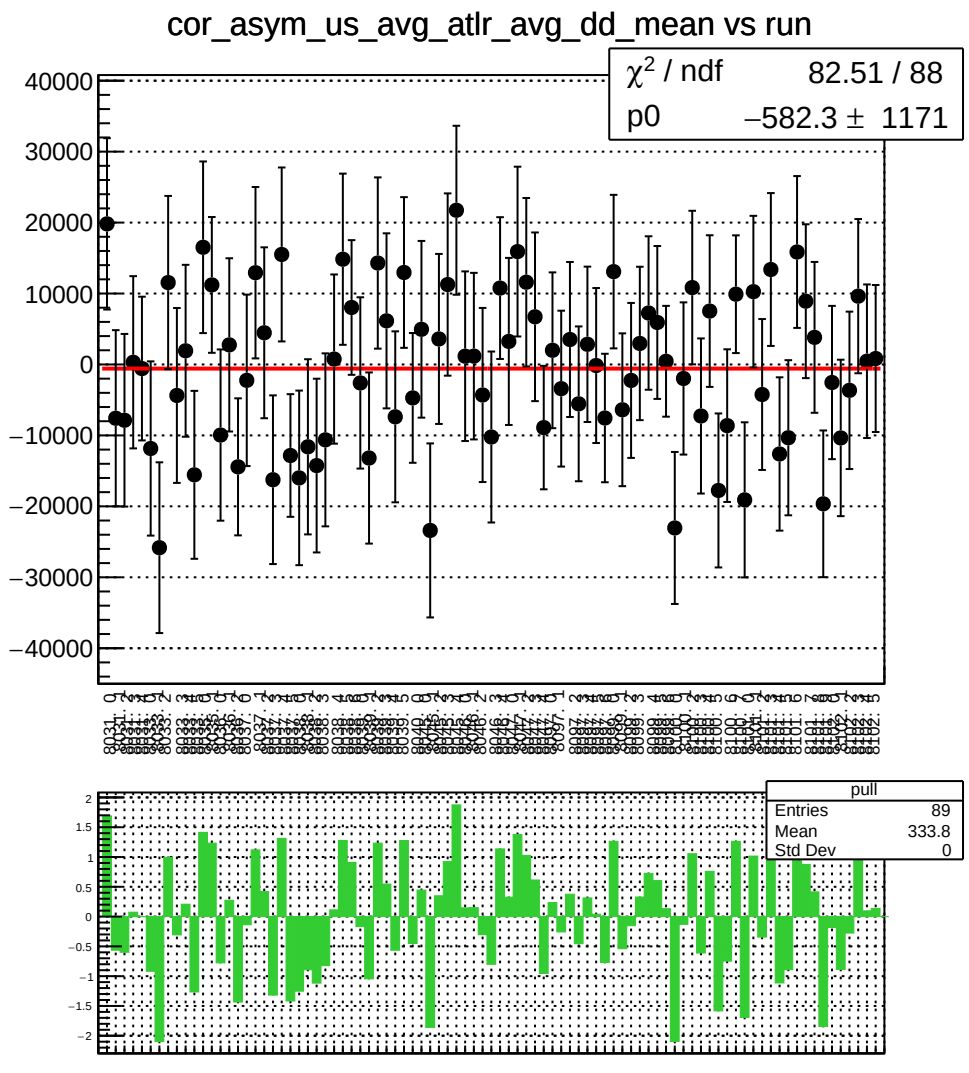

pull1D
Entries 89
Mean 0.002539
Std Dev 0.9629

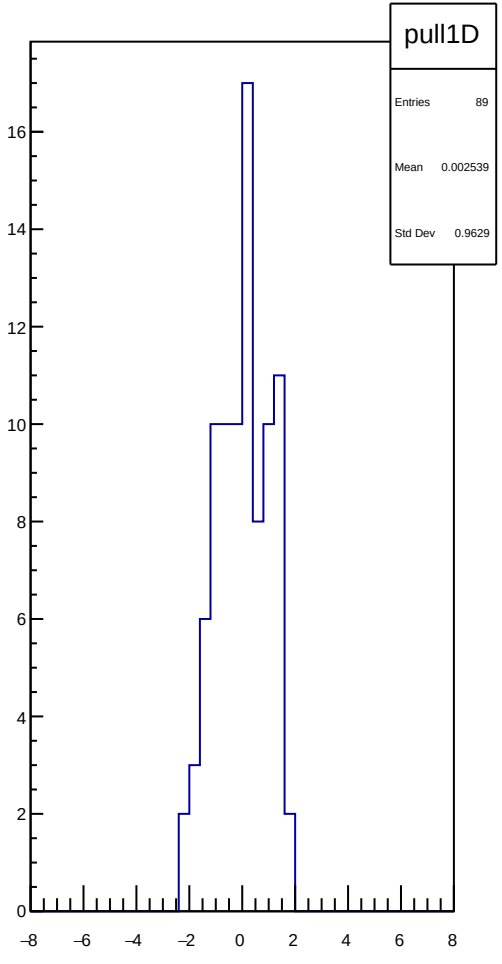

reg_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 5871 / 88
p0 1093 ± 0.8282
1250
1200
1150
1100
1050
1000

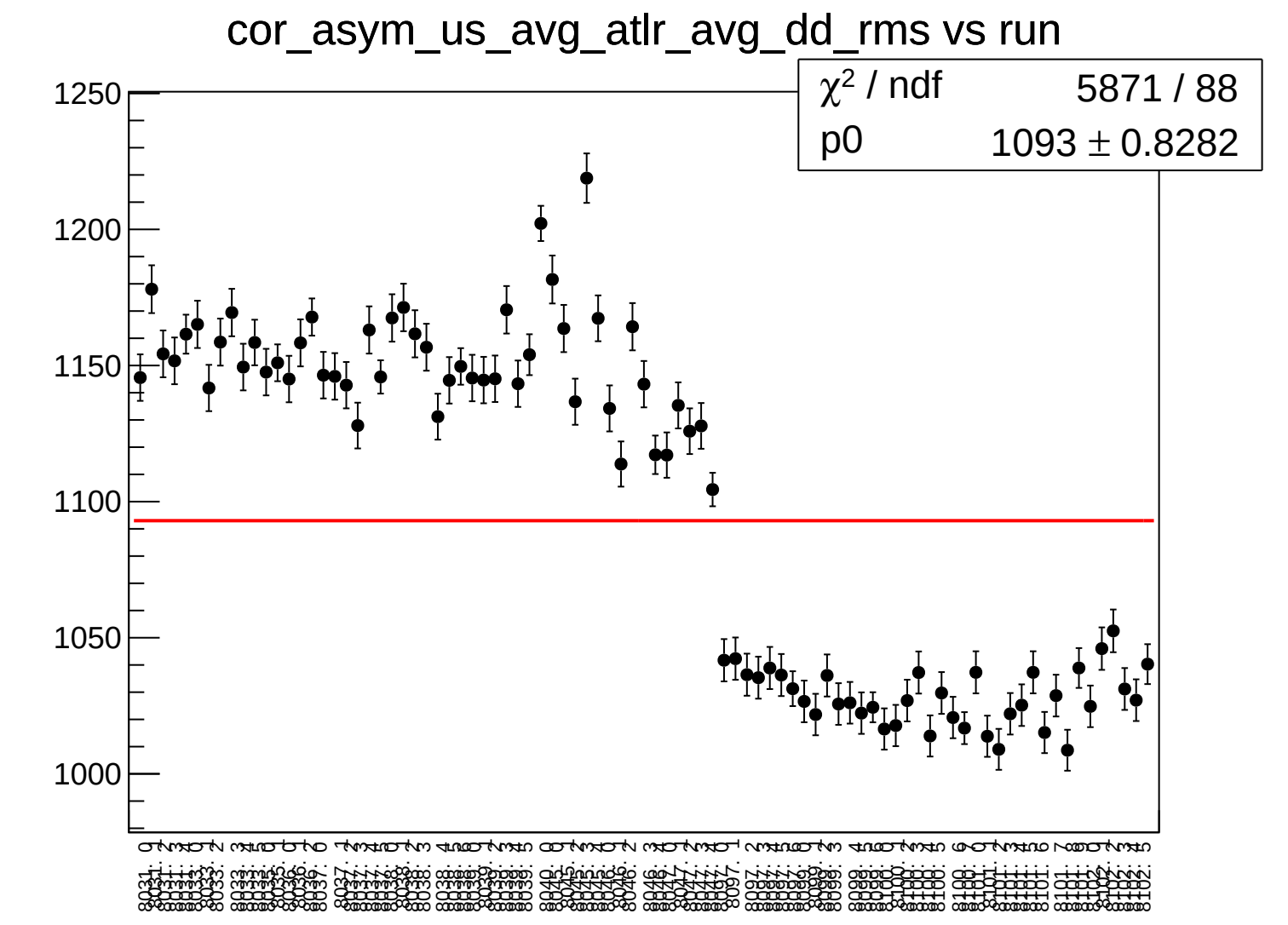

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 96.79 / 88
p0 −1598 ± 4038
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 89
Mean −103.6
Std Dev 0
2
1
0
−1
−2
−3

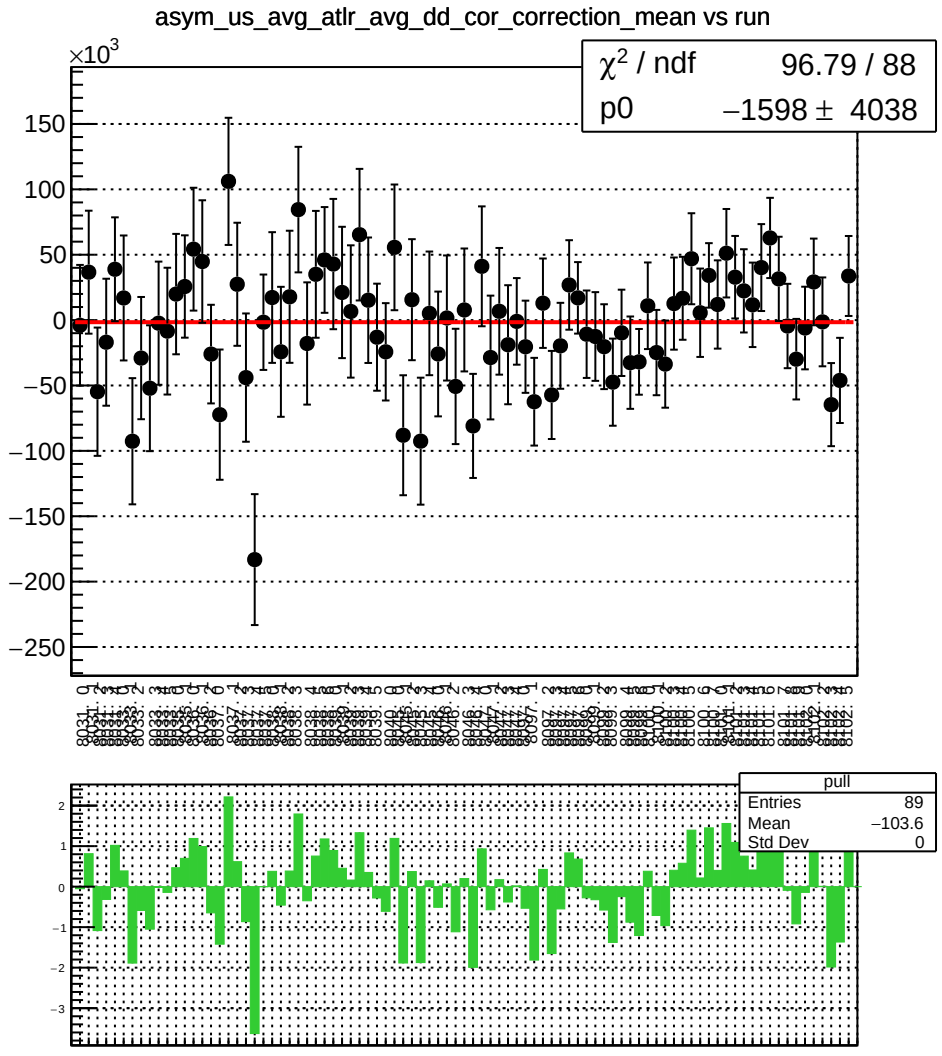

pull1D
Entries 89
Mean −0.01229
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

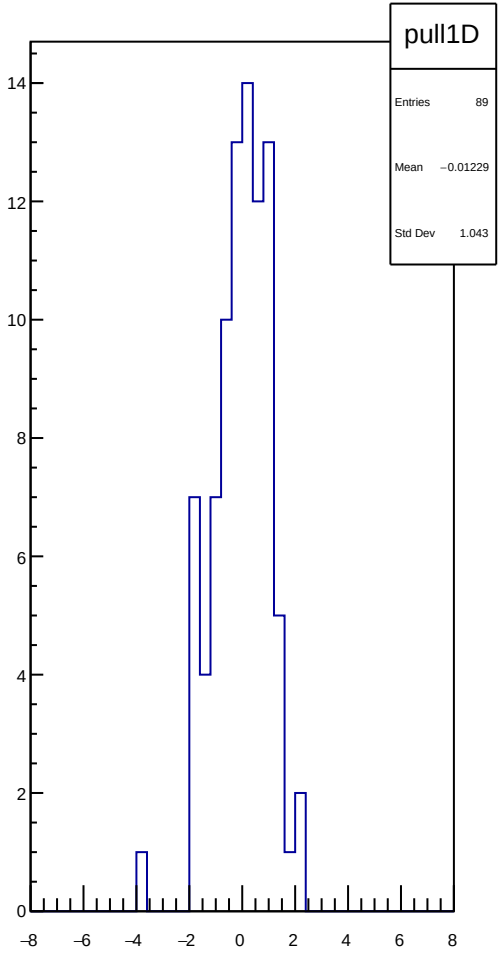

asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ² / ndf 6.211e+04 / 88
p0 3707 ± 2.856
5000
4500
4000
3500
3000

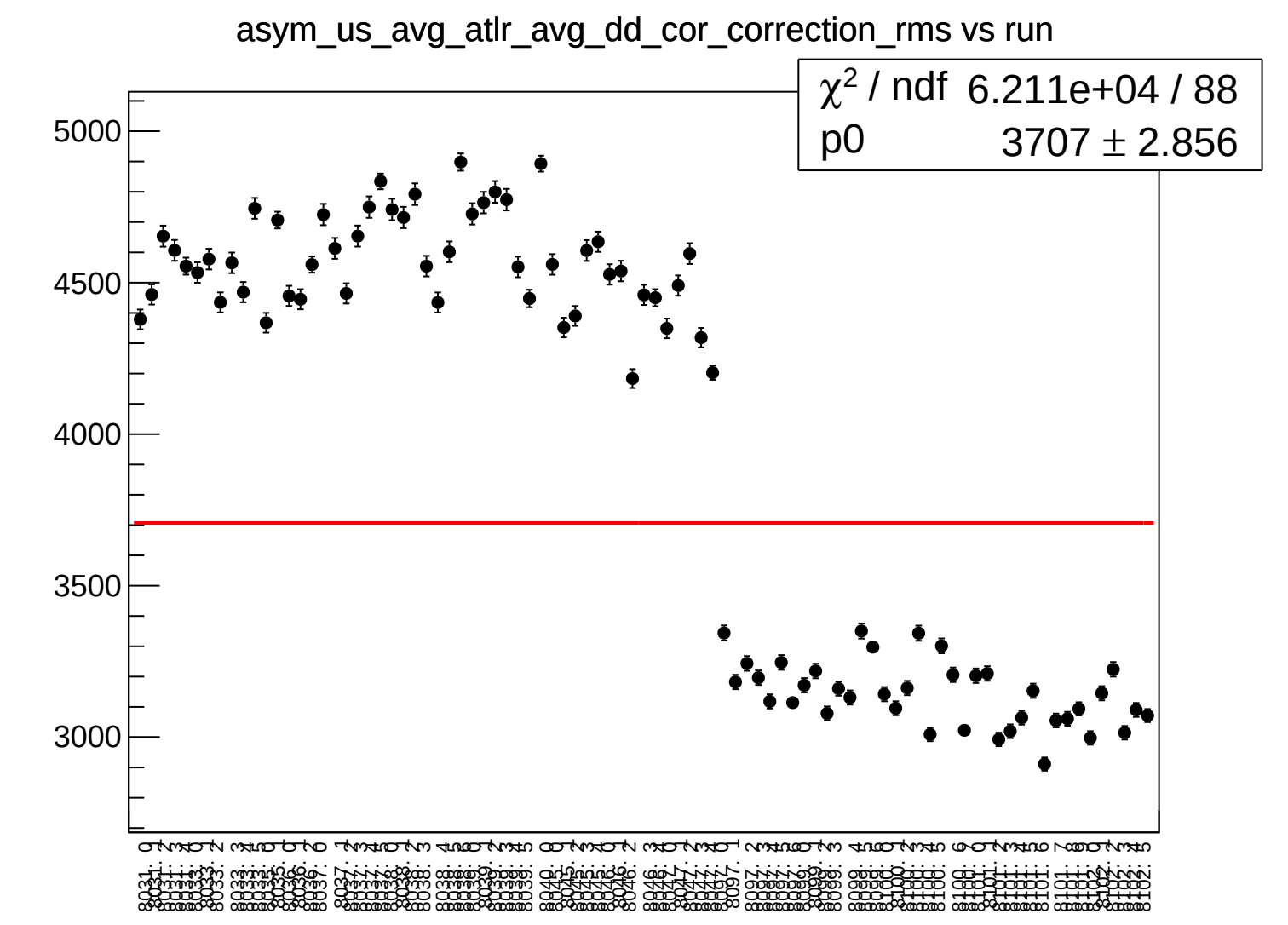

cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 82.51 / 88
p0 −582.3 ± 1171
pull
Entries 89
Mean 333.8
Std Dev 0

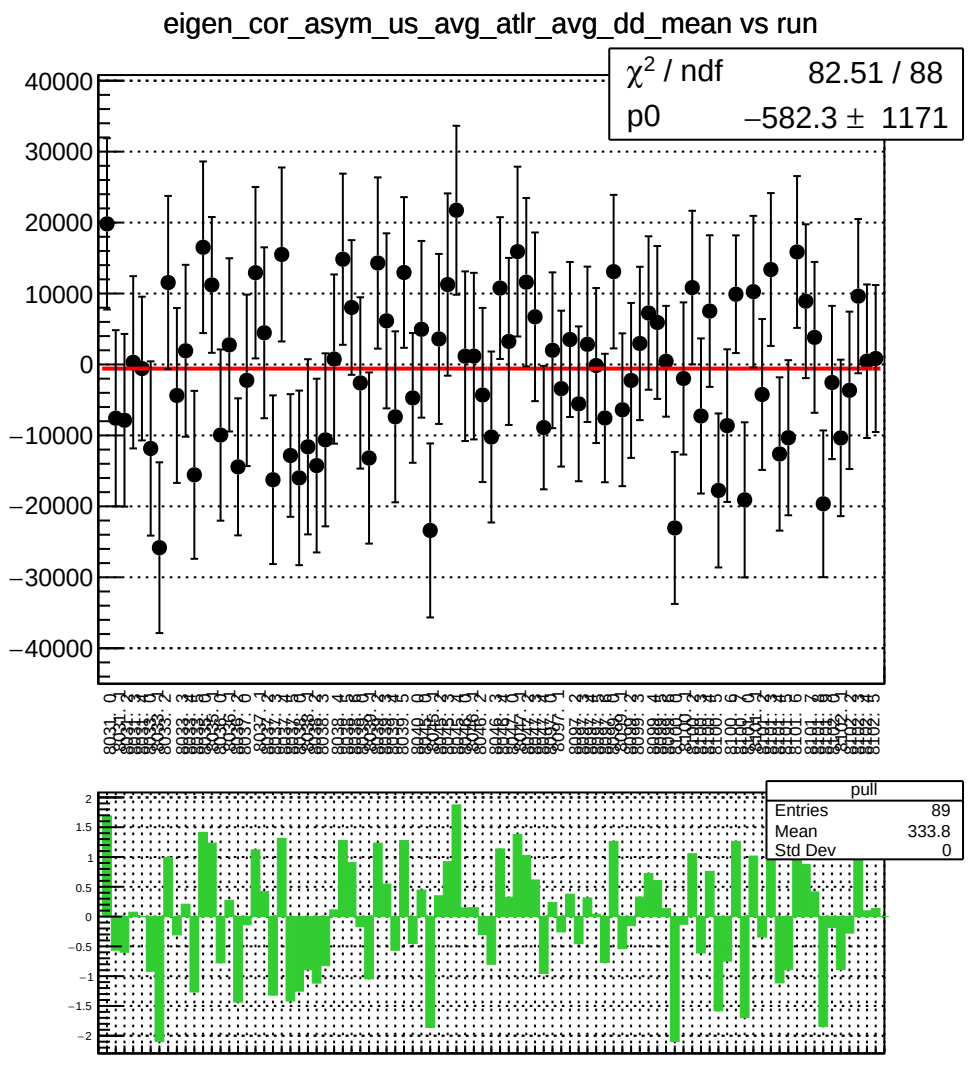

pull1D
Entries 89
Mean 0.002539
Std Dev 0.9629

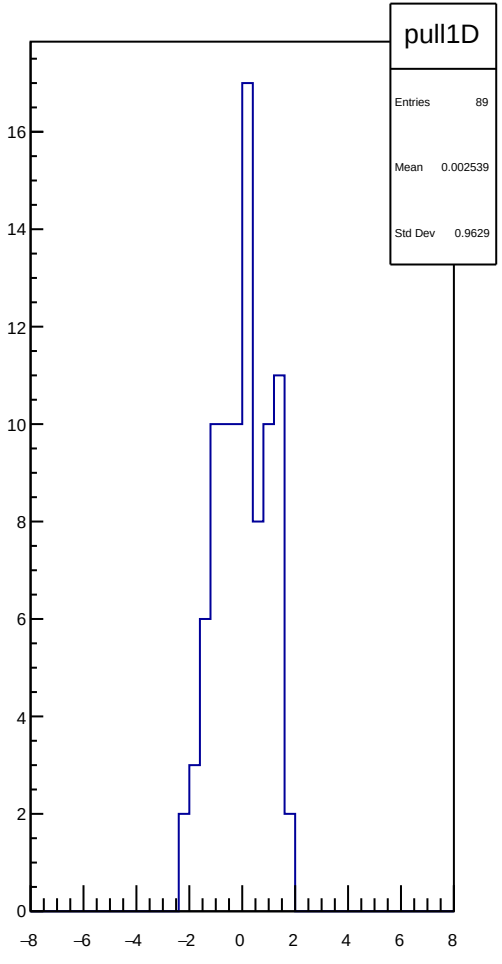

cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 5871 / 88
p0 1093 ± 0.8282
1250
1200
1150
1100
1050
1000

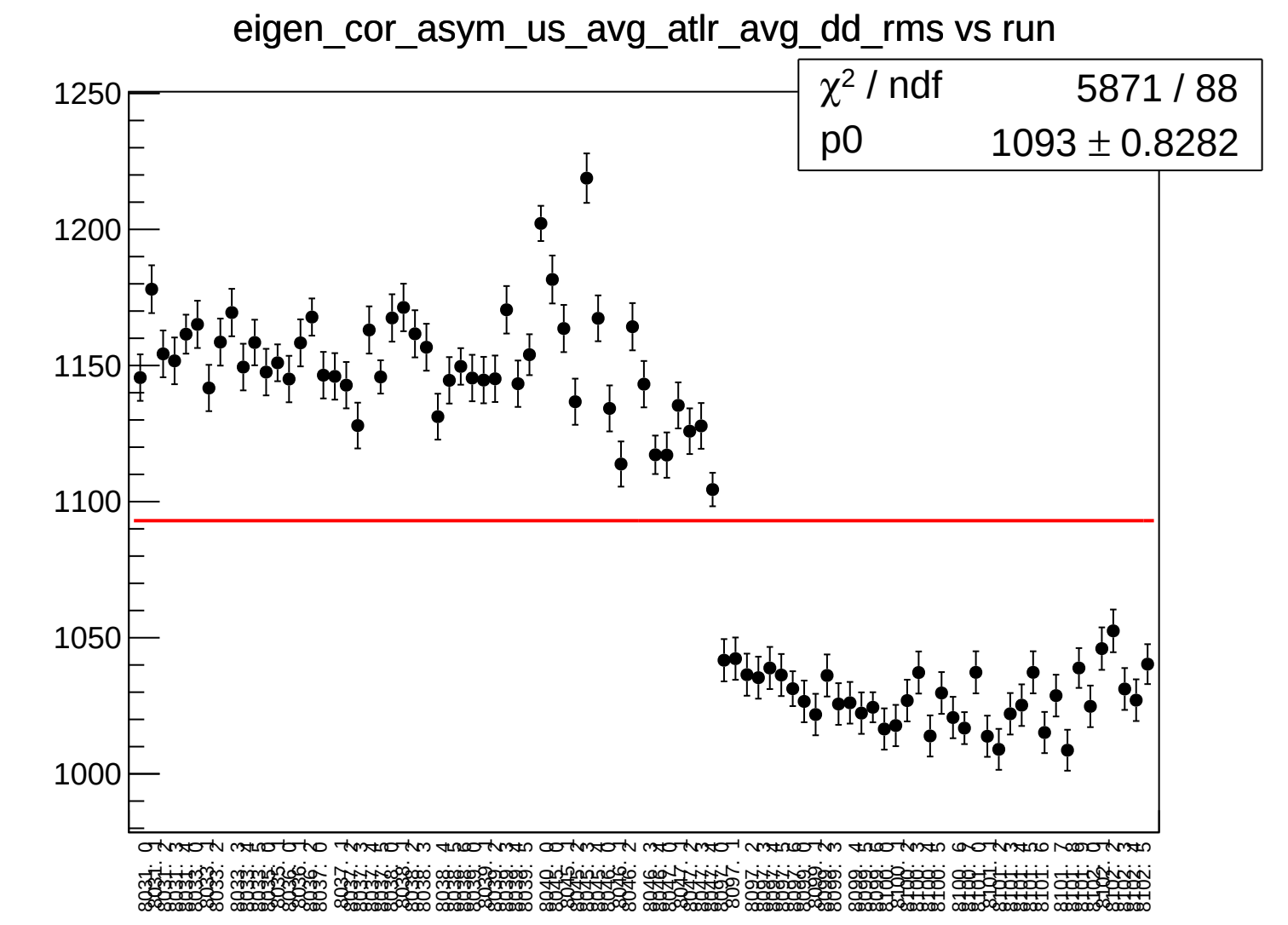

asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 96.79 / 88
p0 −1598 ± 4038
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 89
Mean −103.6
Std Dev 0
2
1
0
−1
−2
−3

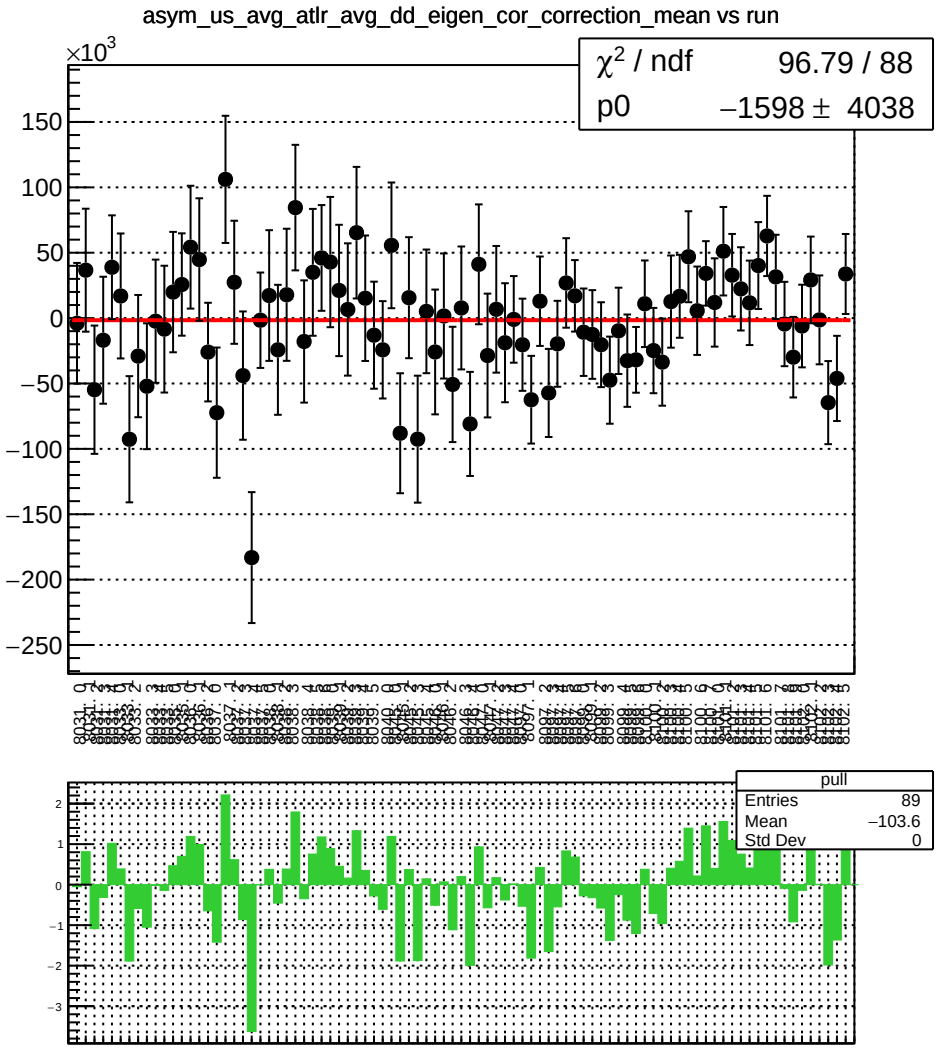

pull1D
Entries 89
Mean −0.01229
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

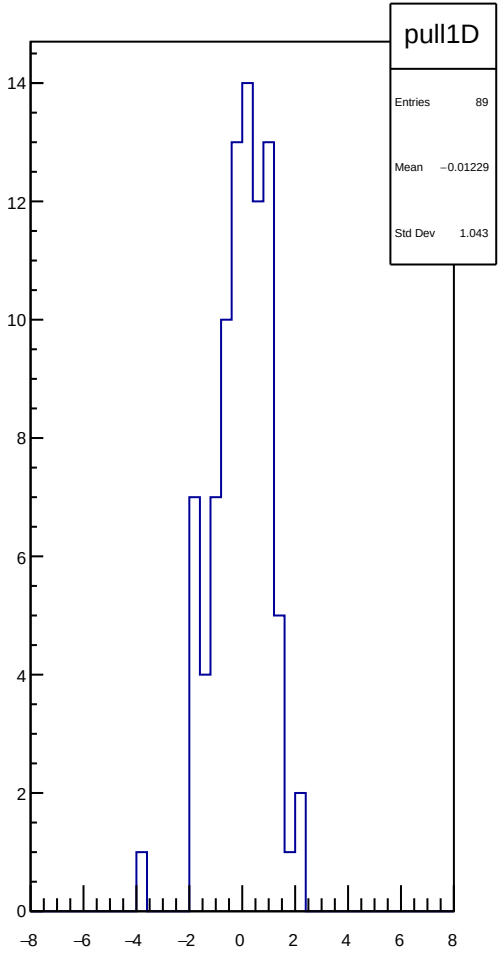

asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 6.211e+04 / 88
p0 3707 ± 2.856
5000
4500
4000
3500
3000

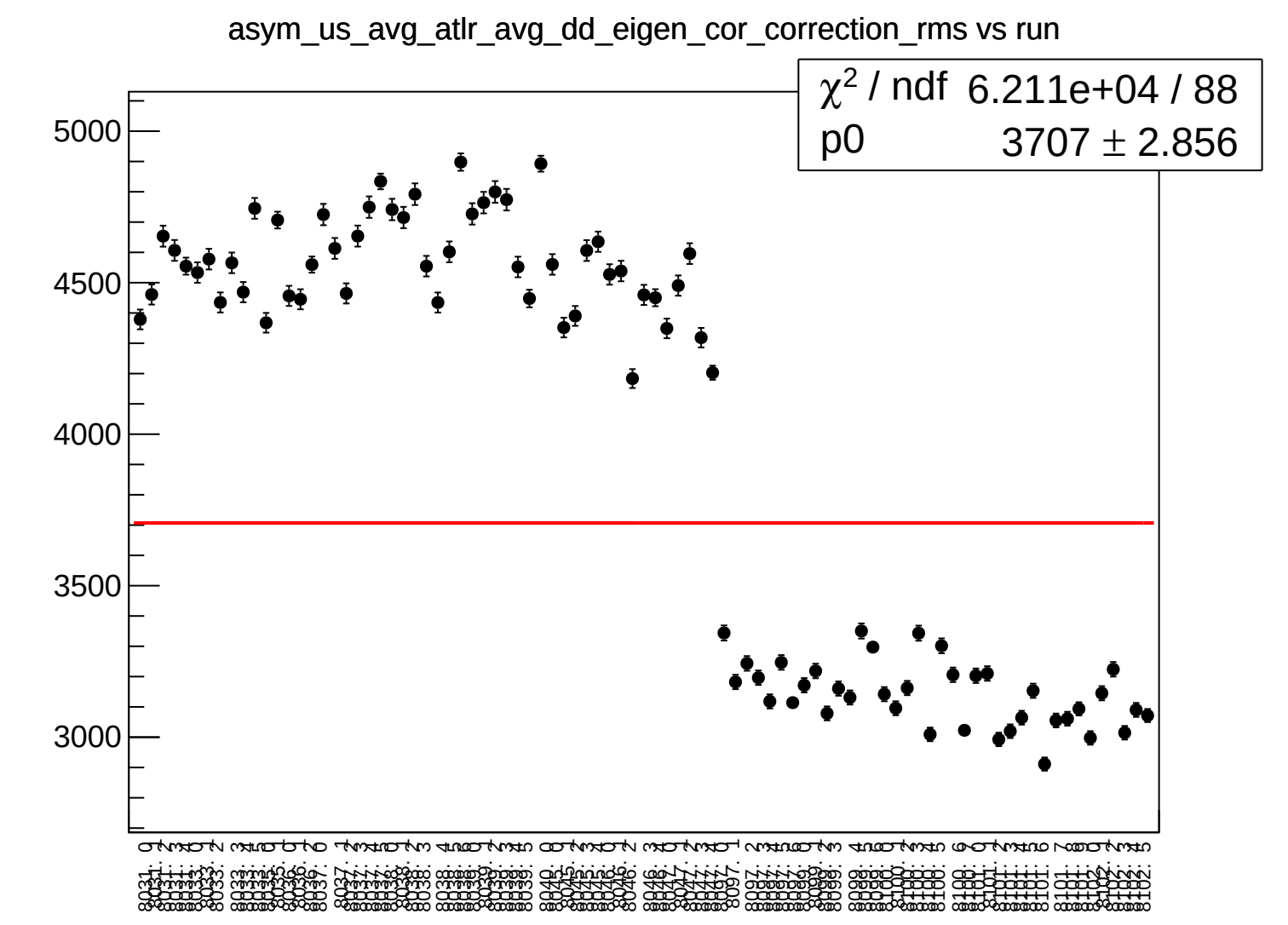

eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 82.51 / 88
p0 −582.3 ± 1171
pull
Entries 89
Mean 333.8
Std Dev 0

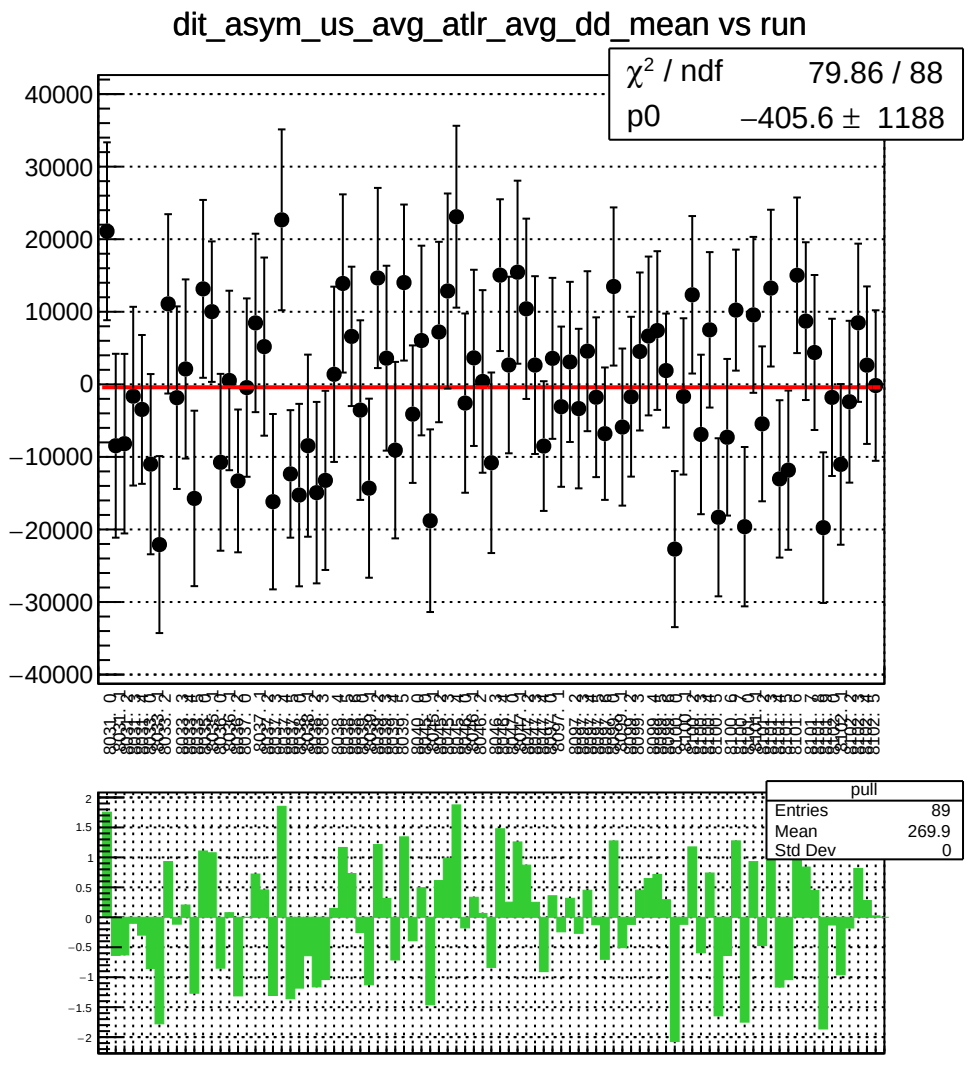

pull1D
Entries 89
Mean 0.002539
Std Dev 0.9629

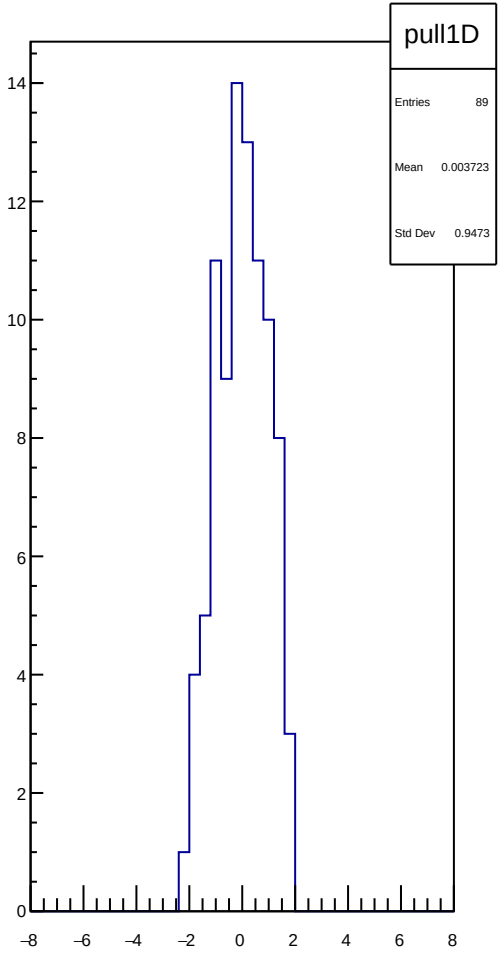

eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 5871 / 88
p0 1093 ± 0.8282
1250
1200
1150
1100
1050
1000

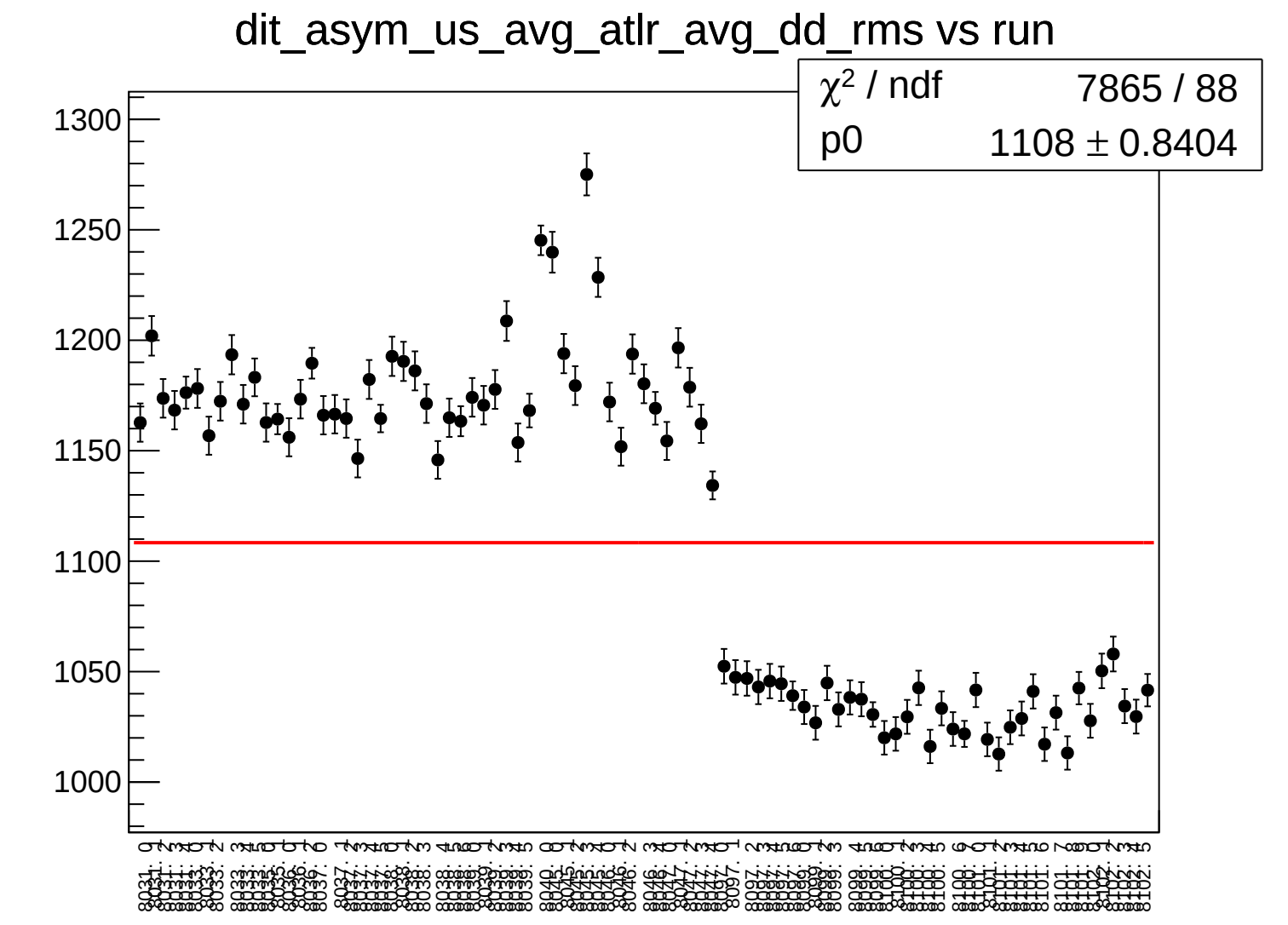

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 96.79 / 88
p0 −1598 ± 4038
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 89
Mean −103.6
Std Dev 0
2
1
0
−1
−2
−3

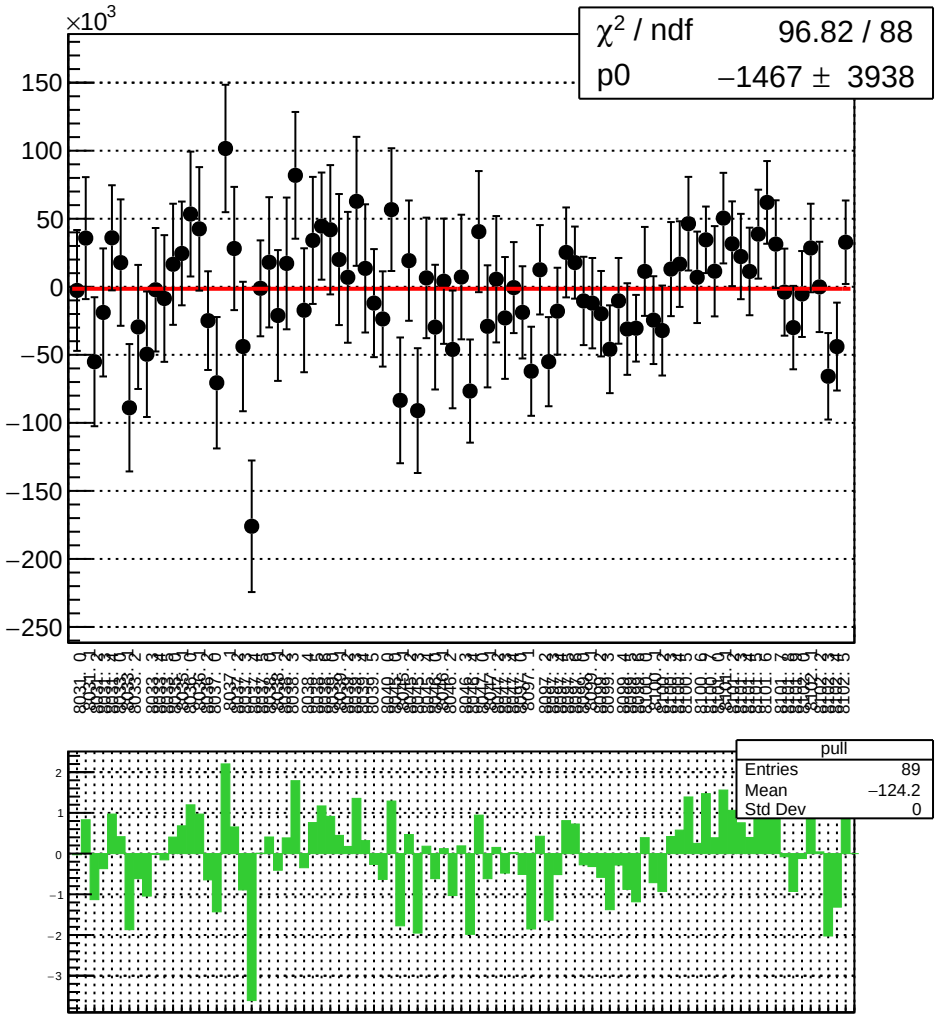

pull1D
Entries 89
Mean −0.01229
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

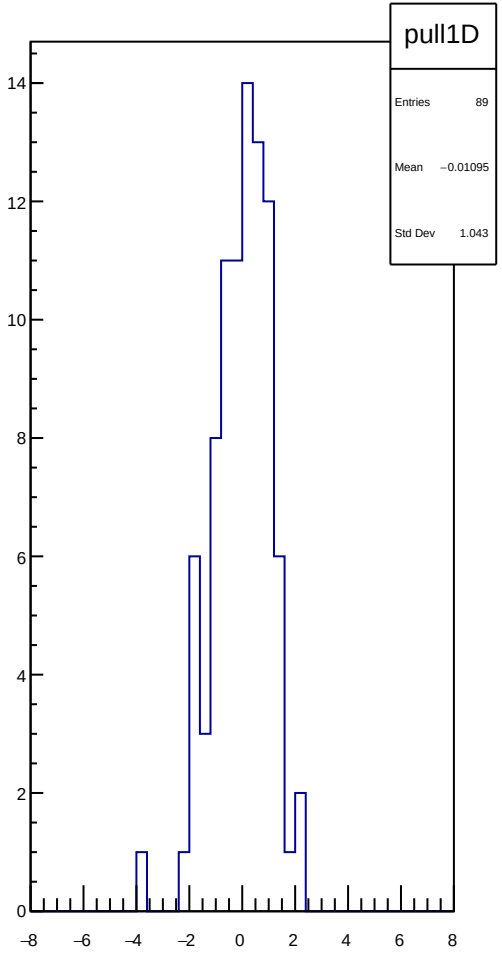

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 6.211e+04 / 88
p0 3707 ± 2.856
5000
4500
4000
3500
3000

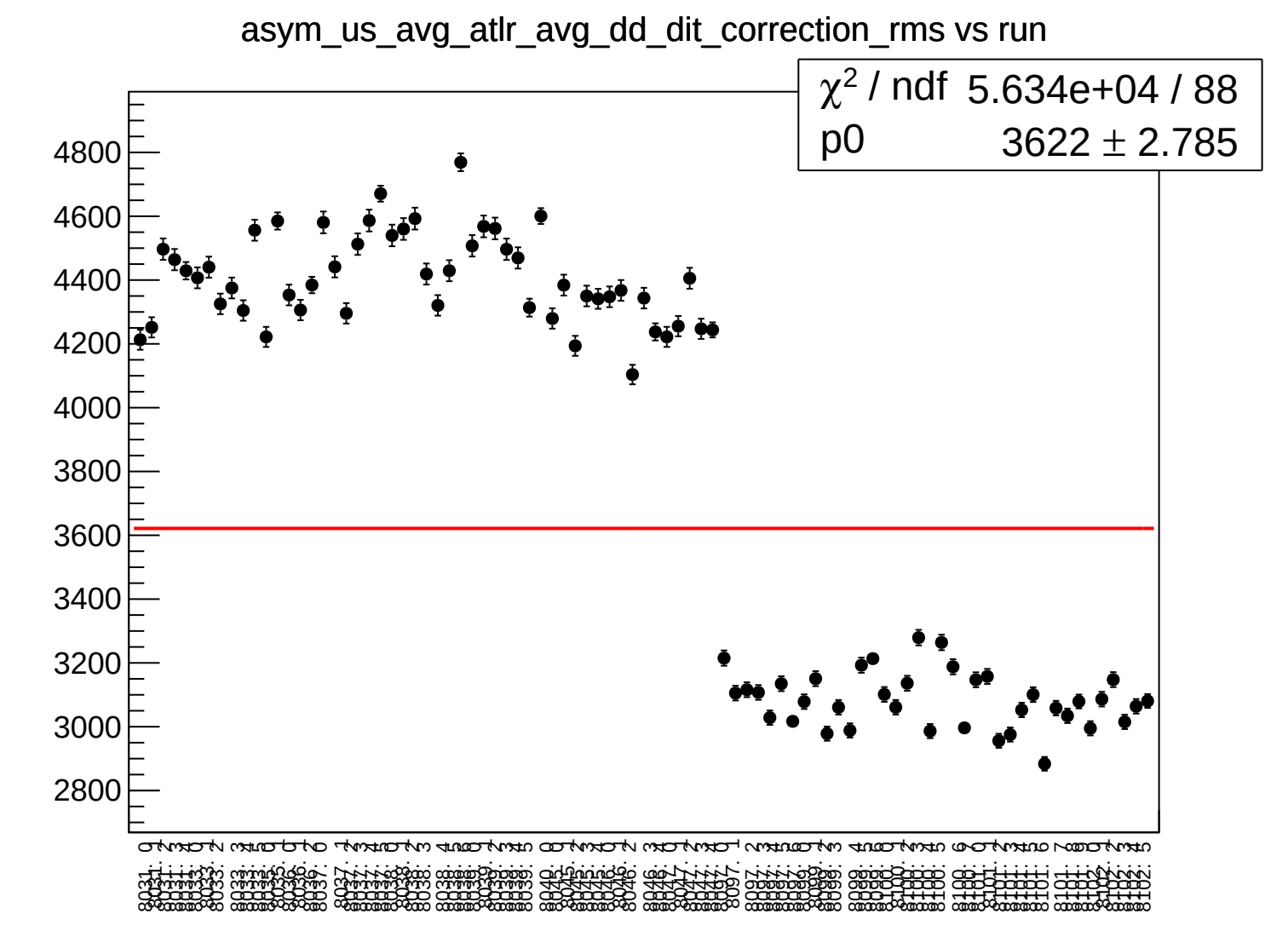

dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 79.86 / 88
p0 −405.6 ± 1188
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean 269.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

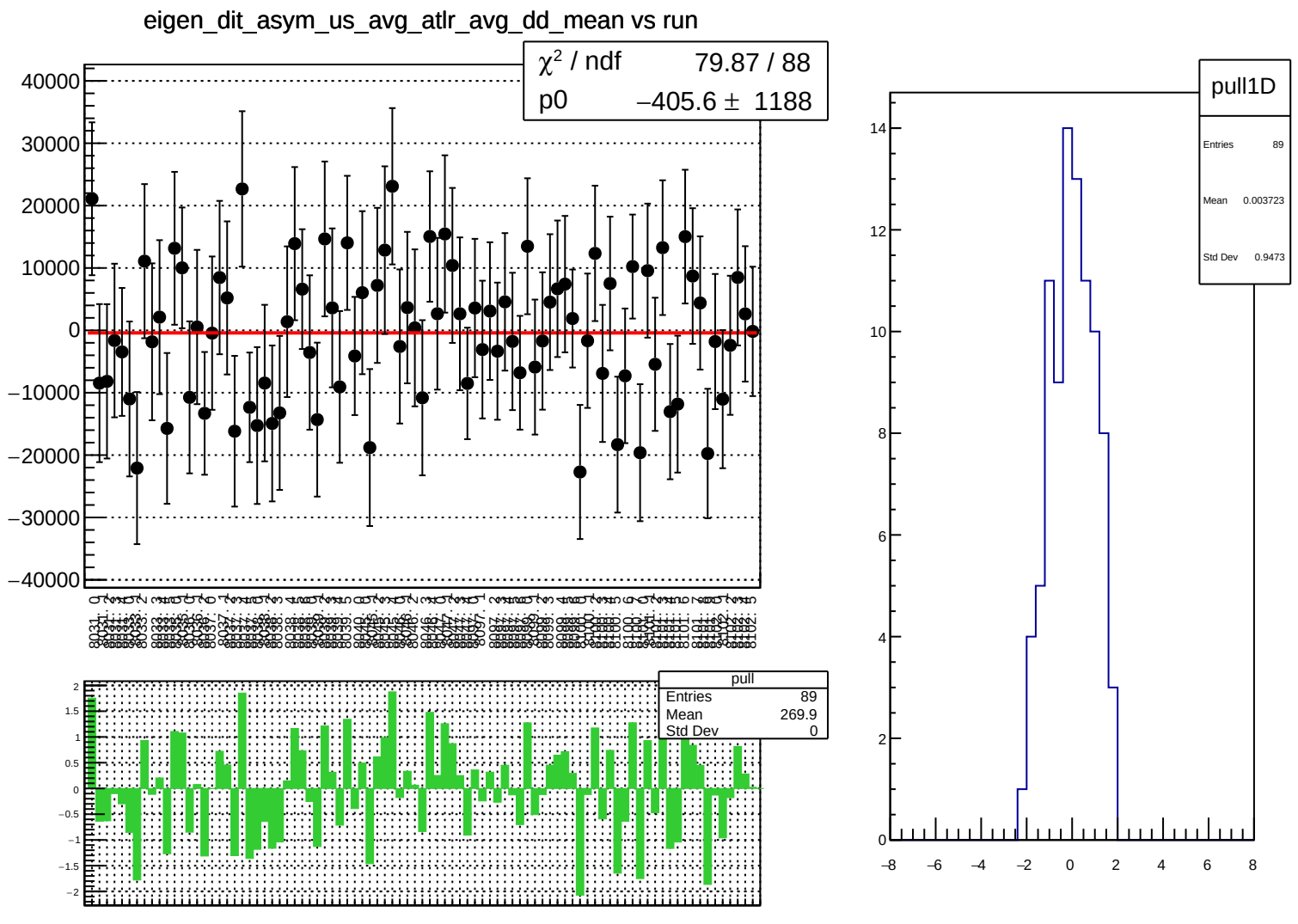

pull1D
Entries 89
Mean 0.003723
Std Dev 0.9473
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

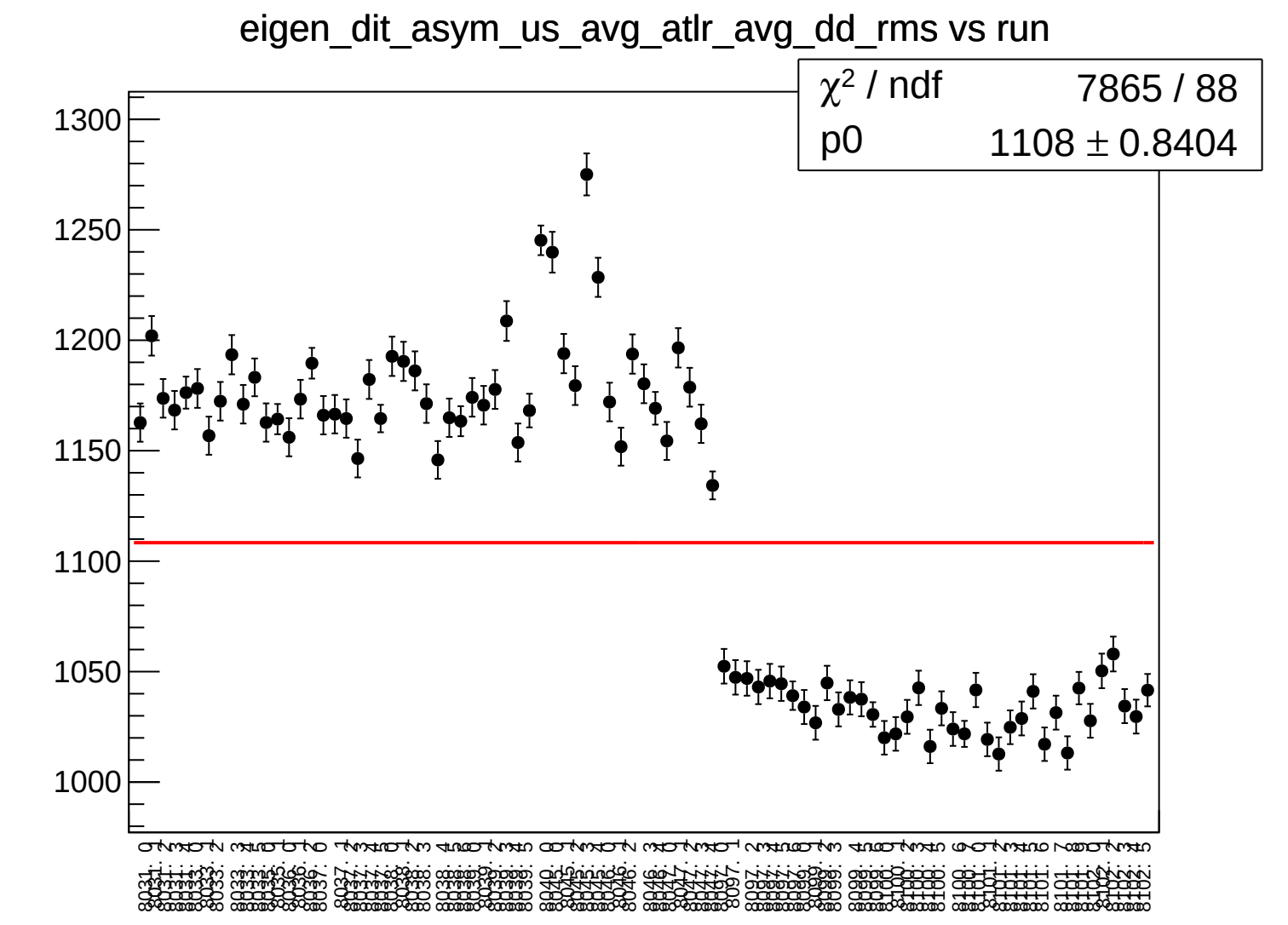

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 7865 / 88
p0 1108 ± 0.8404
1300
1250
1200
1150
1100
1050
1000

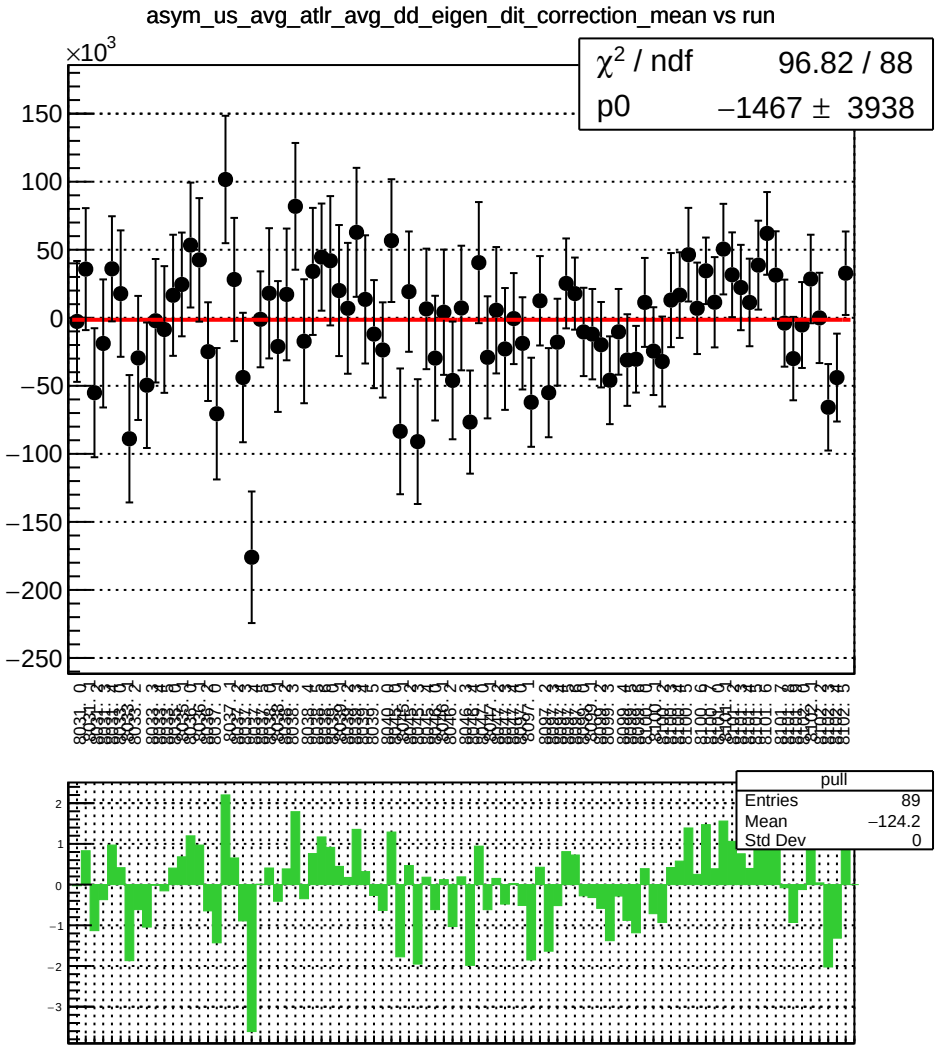

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 96.82 / 88
p0 −1467 ± 3938
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 89
Mean −124.2
Std Dev 0
2
1
0
−1
−2
−3

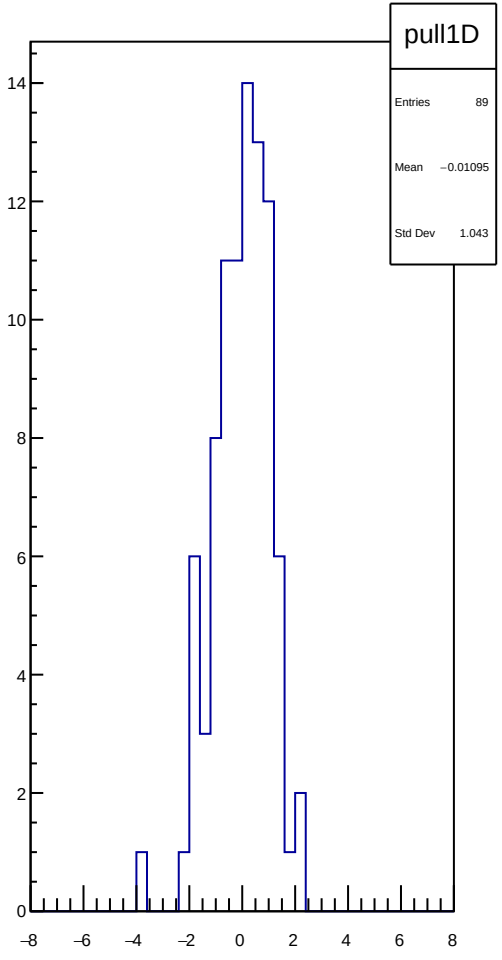

pull1D
Entries 89
Mean −0.01095
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

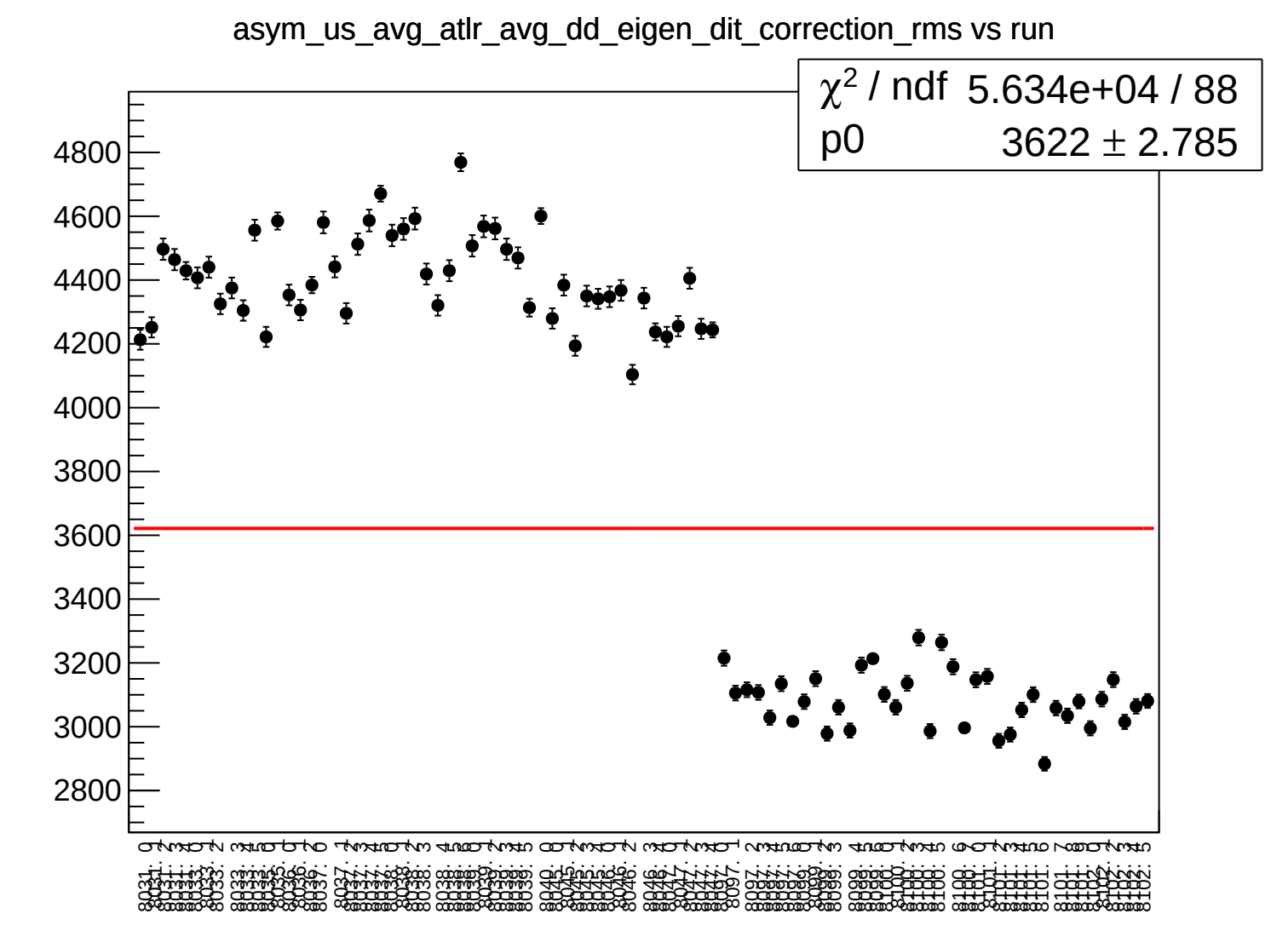

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ² / ndf 5.634e+04 / 88
p0 3622 ± 2.785
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800

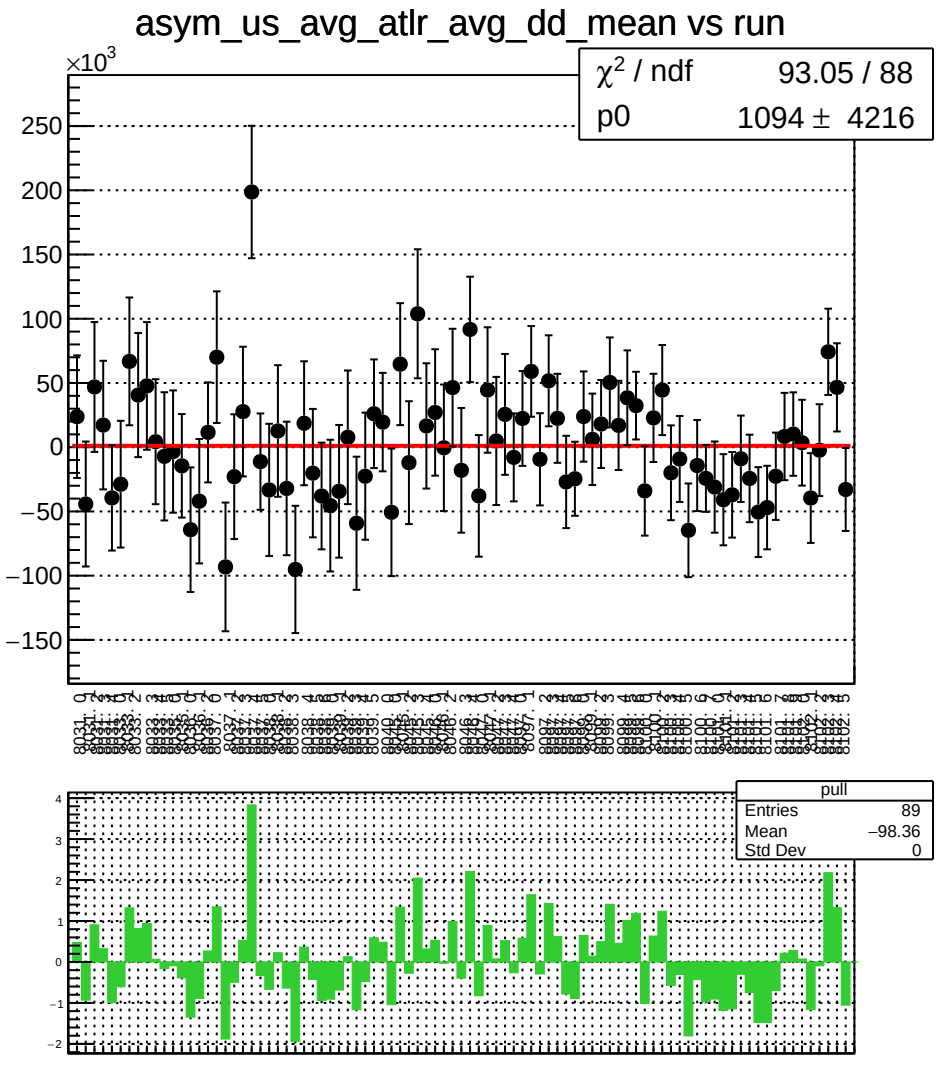

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 79.87 / 88
p0 −405.6 ± 1188
pull
Entries 89
Mean 269.9
Std Dev 0
pull1D
Entries 89
Mean 0.003723
Std Dev 0.9473

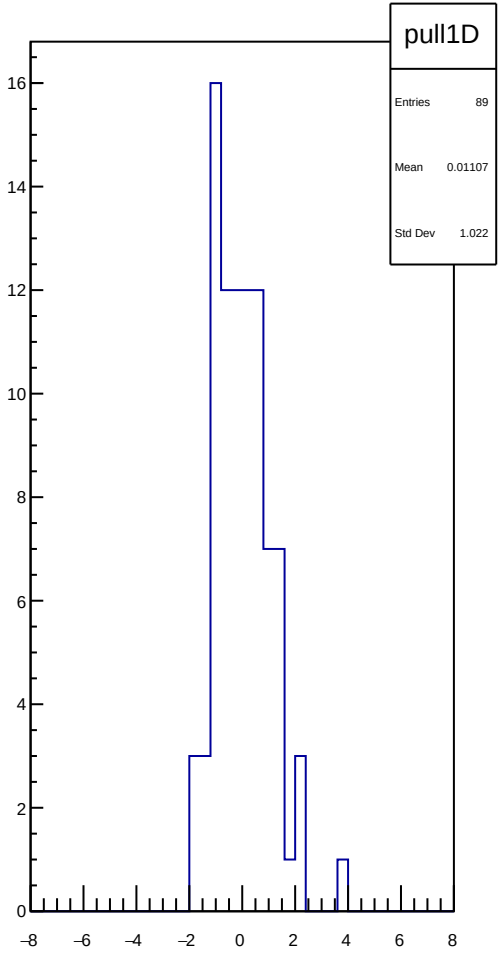

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 7865 / 88
p0 1108 ± 0.8404
1300
1250
1200
1150
1100
1050
1000

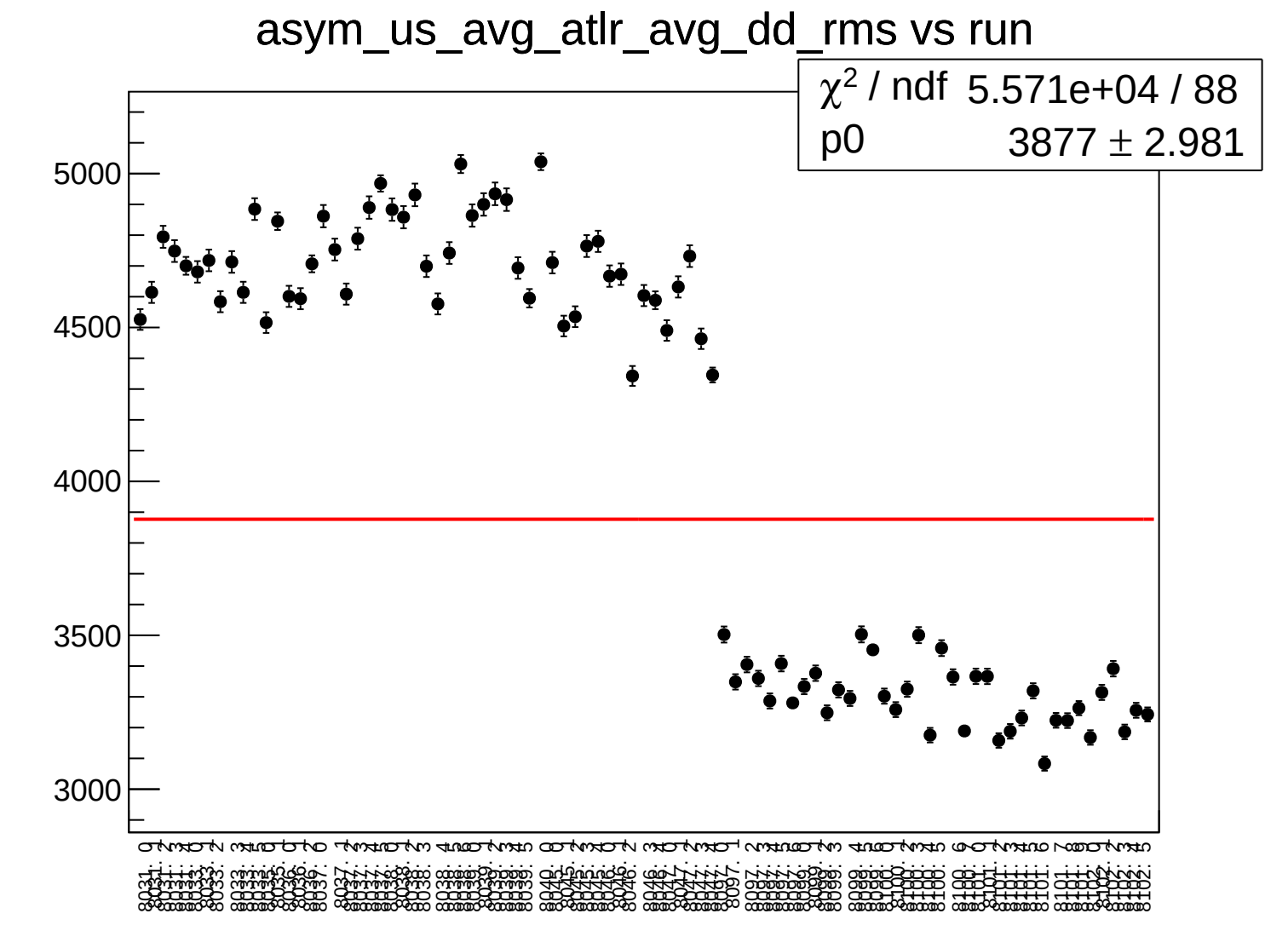

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.82 / 88
p0 −1467 ± 3938
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 89
Mean −124.2
Std Dev 0
2
1
0
−1
−2
−3

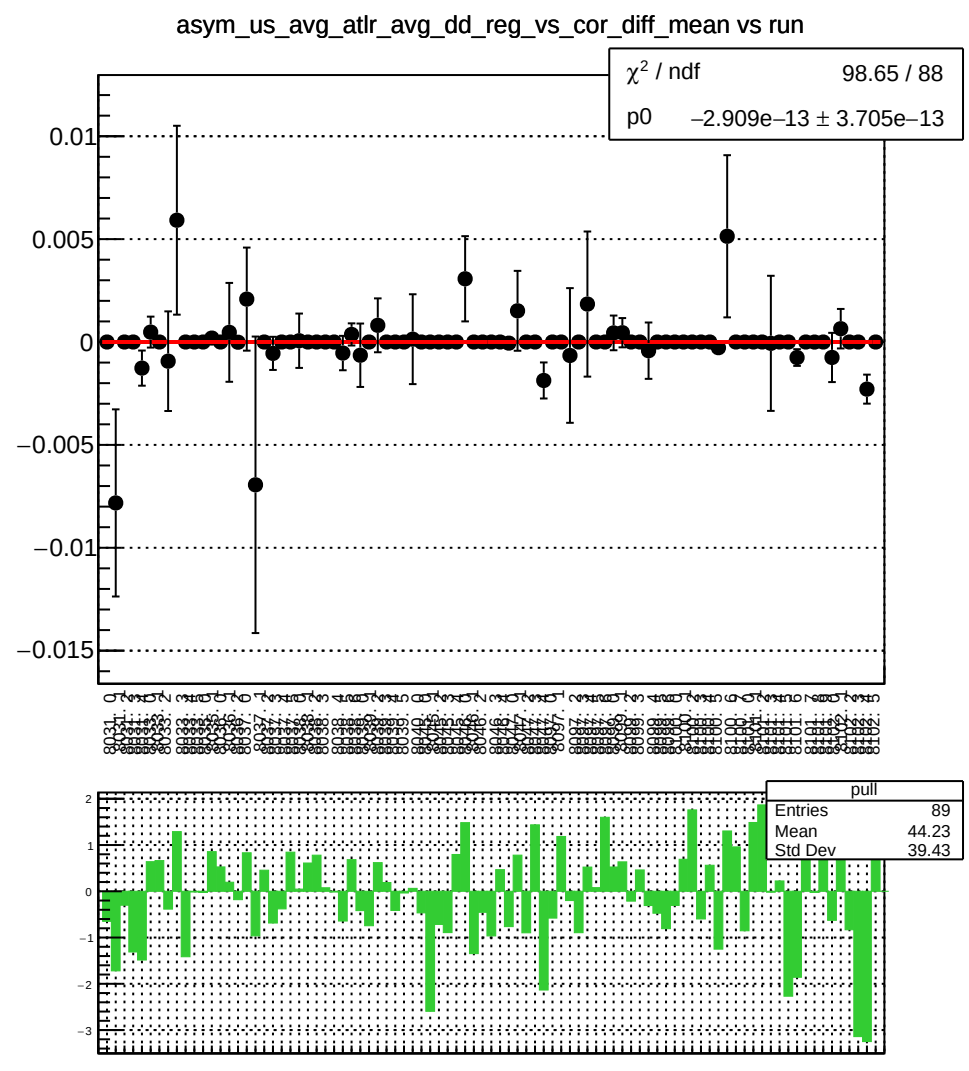

pull1D
Entries 89
Mean −0.01095
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

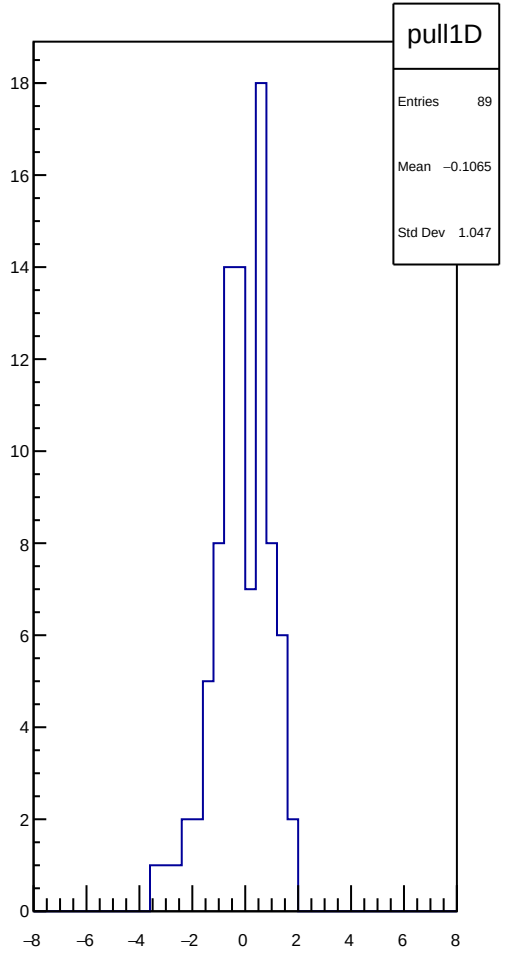

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 5.634e+04 / 88
p0 3622 ± 2.785
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800

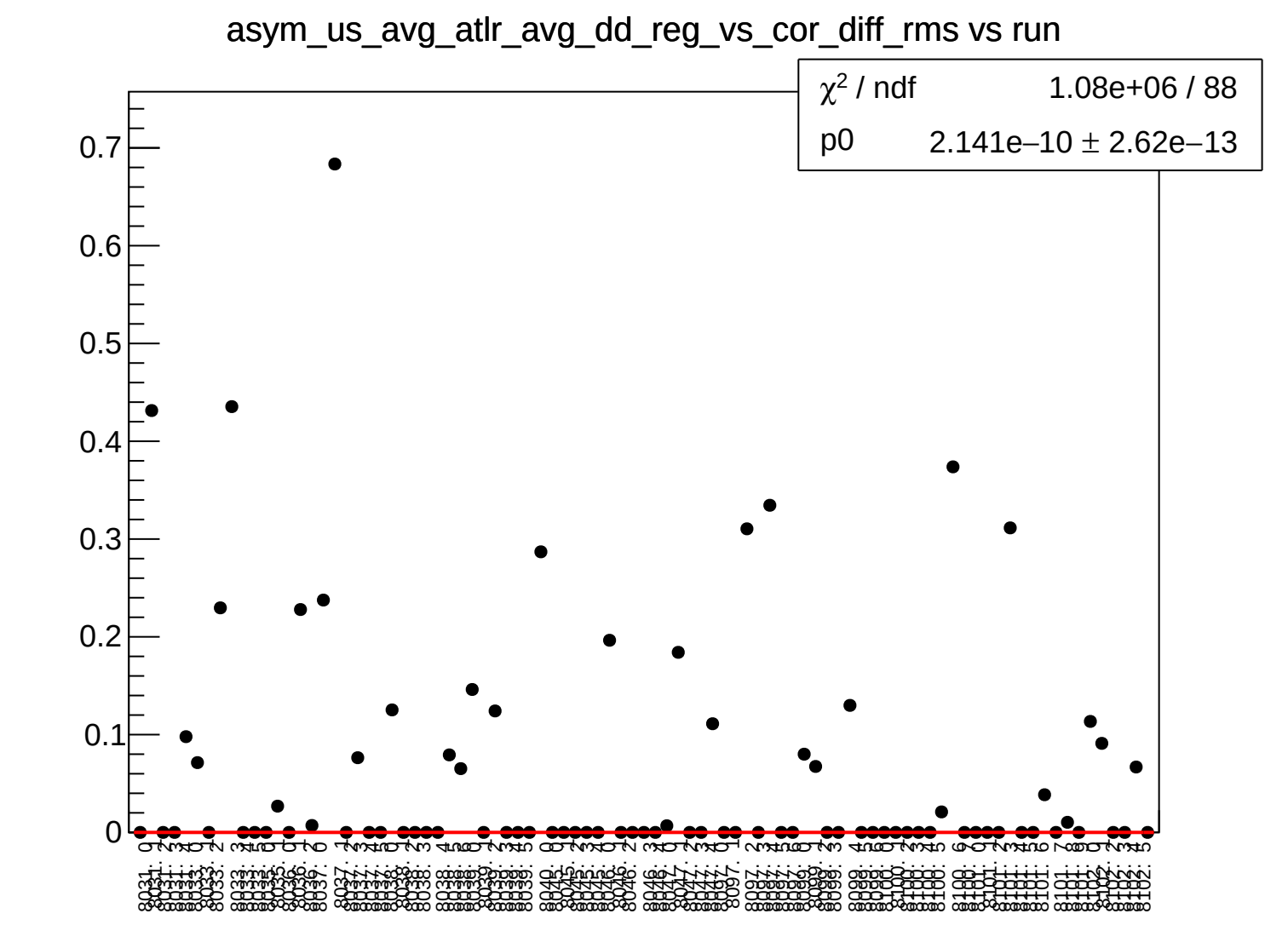

asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ^2 / ndf 93.05 / 88
p0 1094 ± 4216
250
200
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −98.36
Std Dev 0
4
3
2
1
0
−1
−2

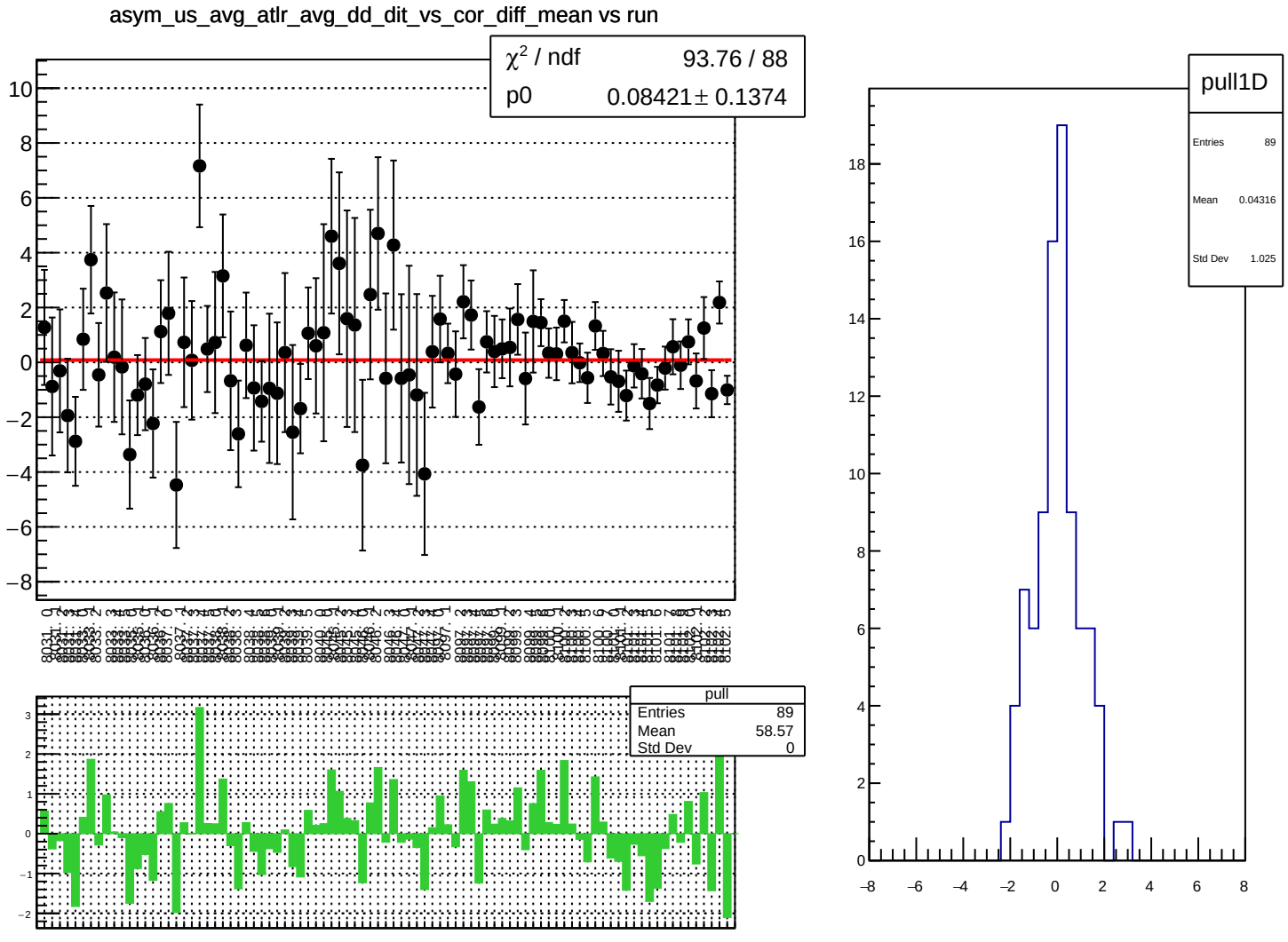

pull1D
Entries 89
Mean 0.01107
Std Dev 1.022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

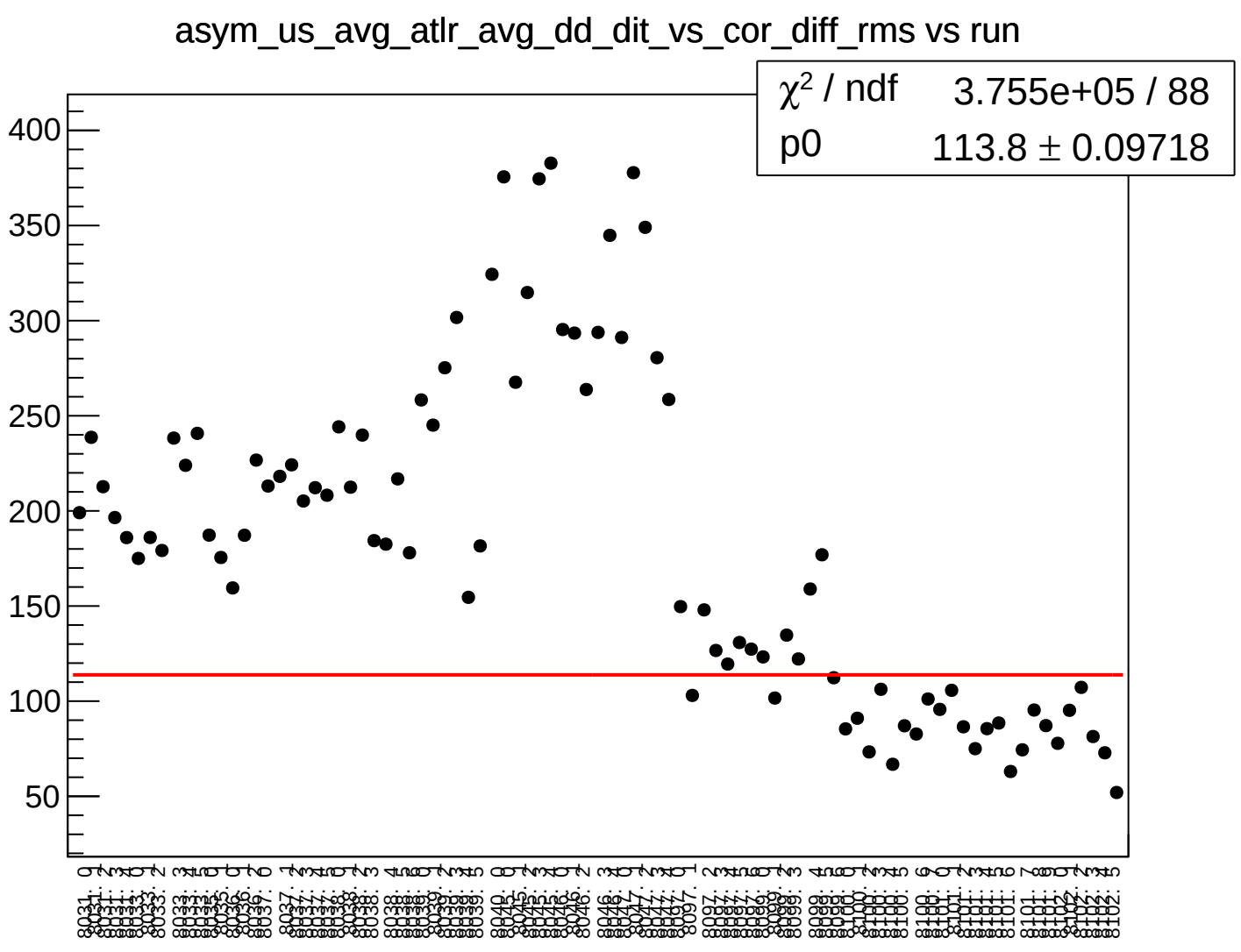

asym_us_avg_atlr_avg_dd_rms vs run
$\chi^2$ / ndf 5.571e+04 / 88
p0 3877 ± 2.981
5000
4500
4000
3500
3000

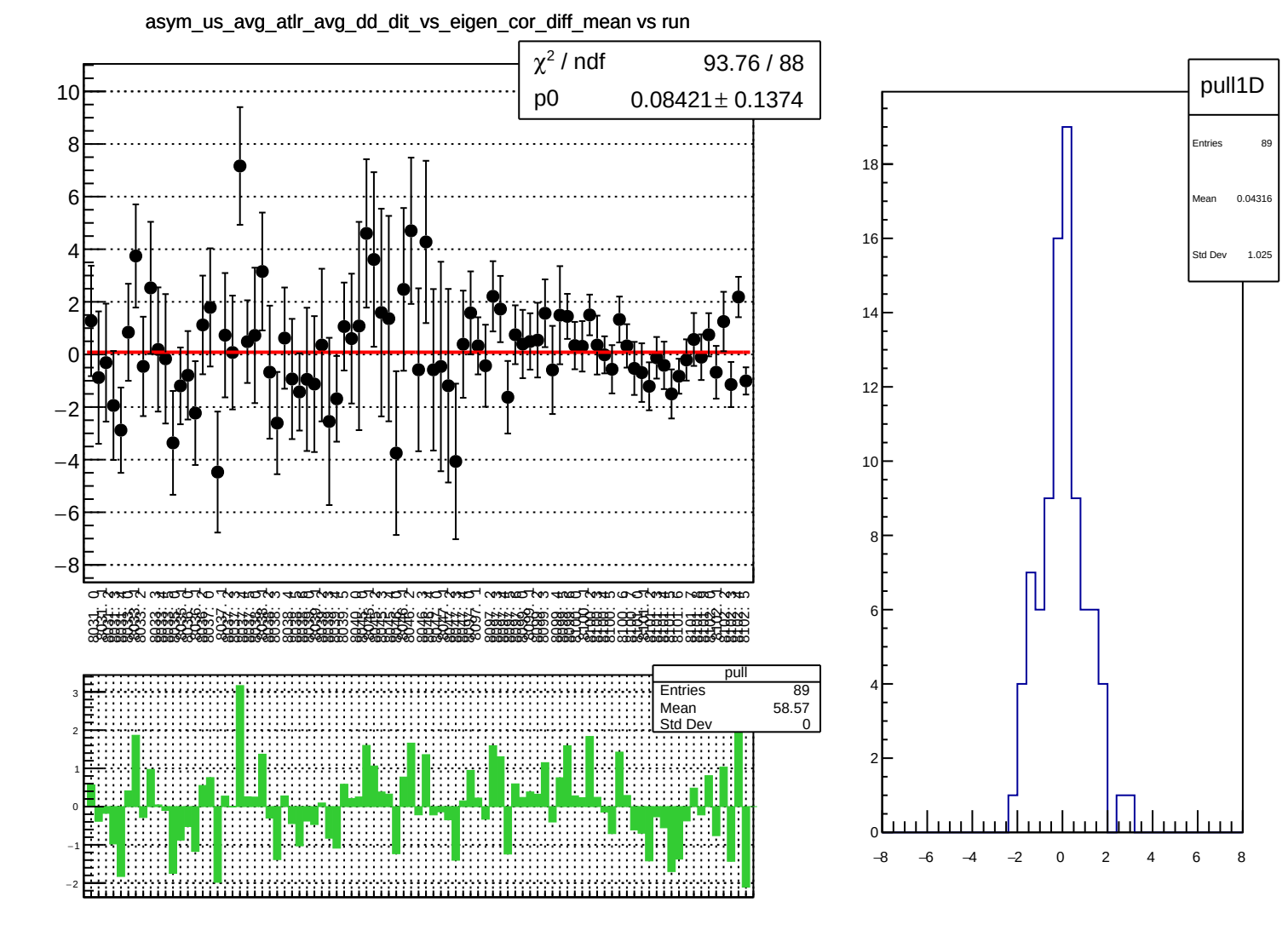

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 98.65 / 88
p0 −2.909e−13 ± 3.705e−13
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 89
Mean 44.23
Std Dev 39.43
2
1
0
−1
−2
−3

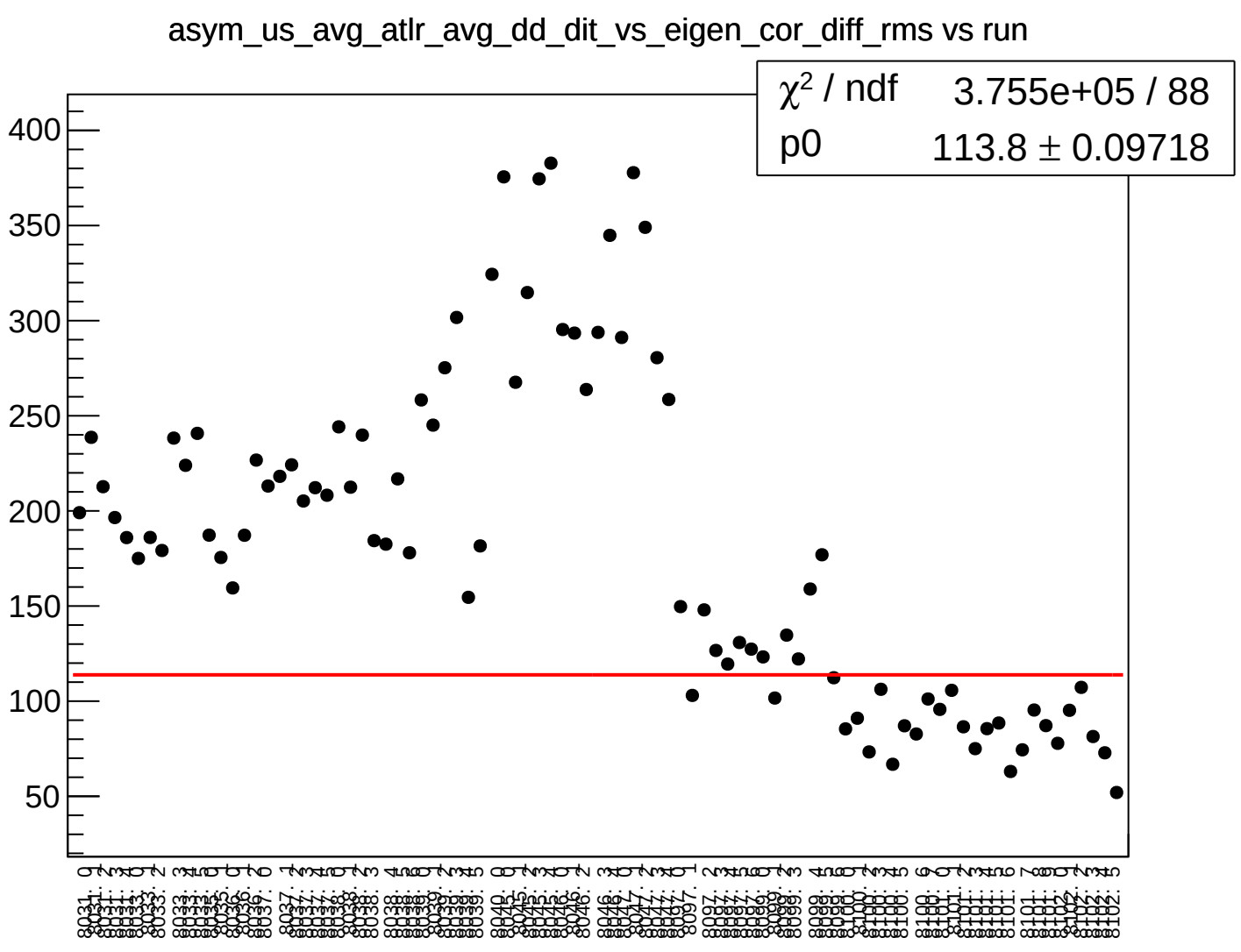

pull1D
Entries 89
Mean −0.1065
Std Dev 1.047
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

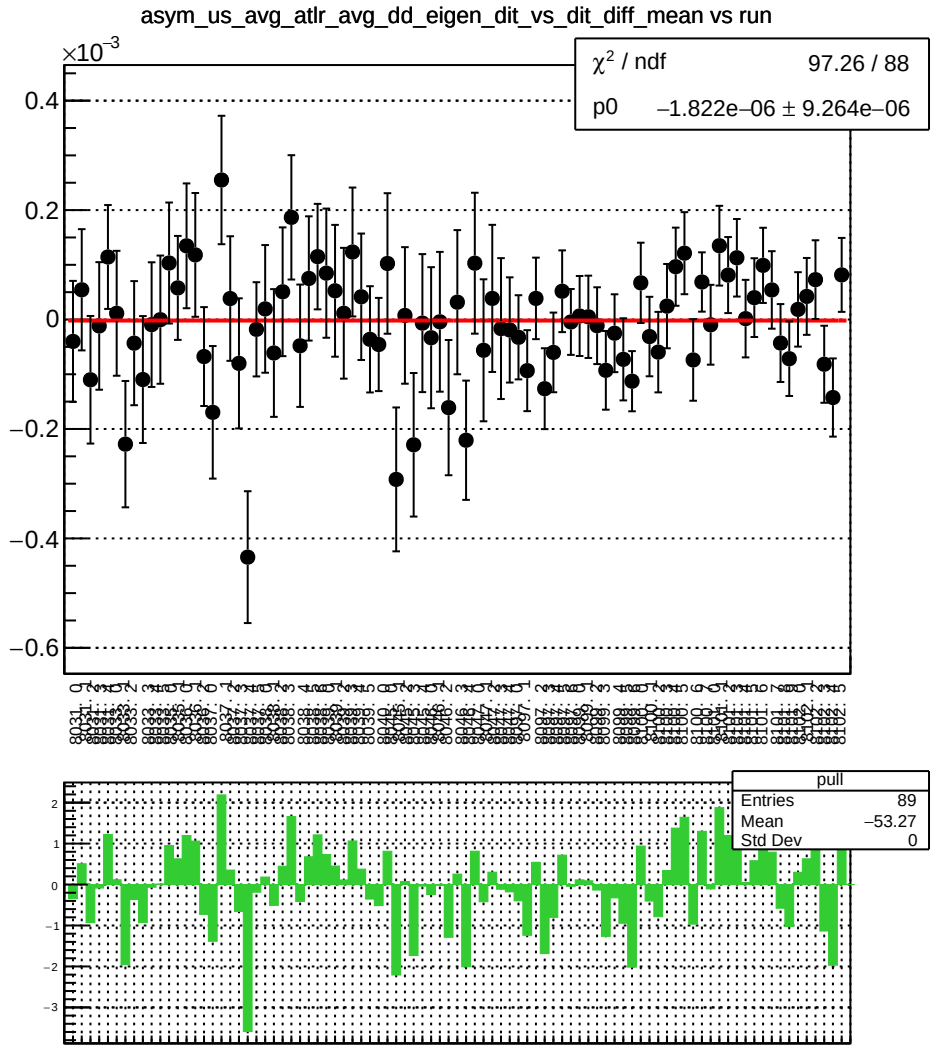

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.08e+06 / 88
p0 2.141e−10 ± 2.62e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

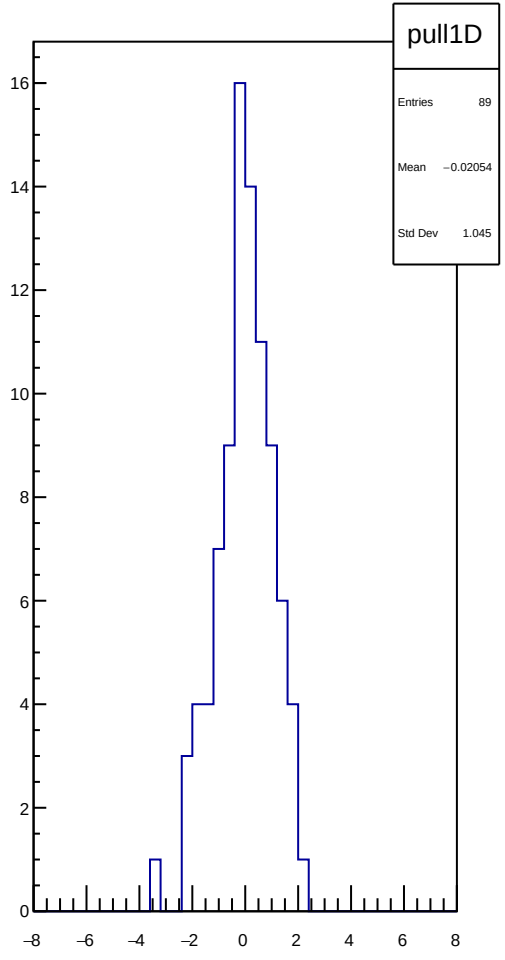

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 93.76 / 88
p0 0.08421 ± 0.1374
pull
Entries 89
Mean 58.57
Std Dev 0
pull1D
Entries 89
Mean 0.04316
Std Dev 1.025

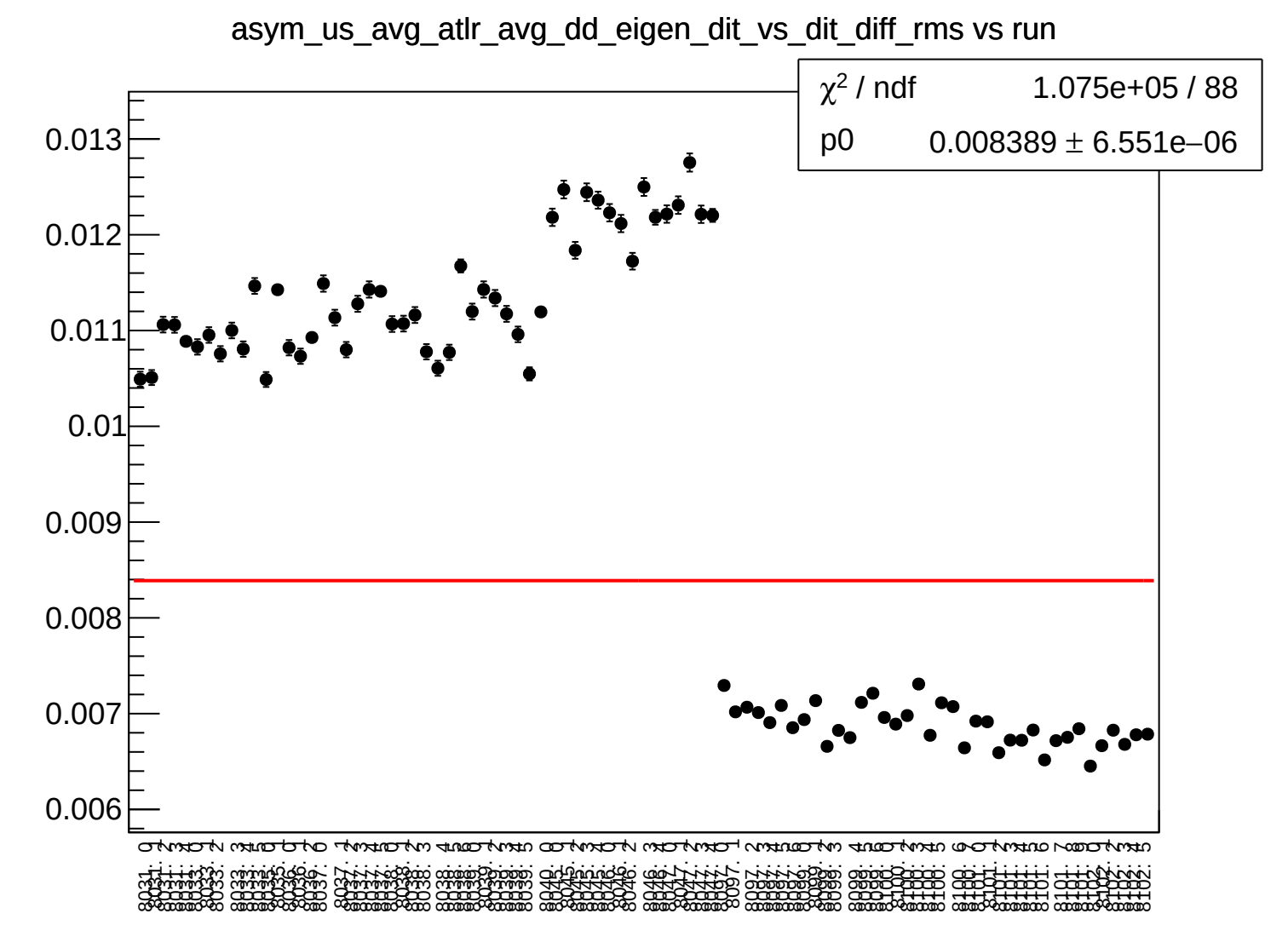

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.755e+05 / 88
p0 113.8 ± 0.09718
400
350
300
250
200
150
100
50

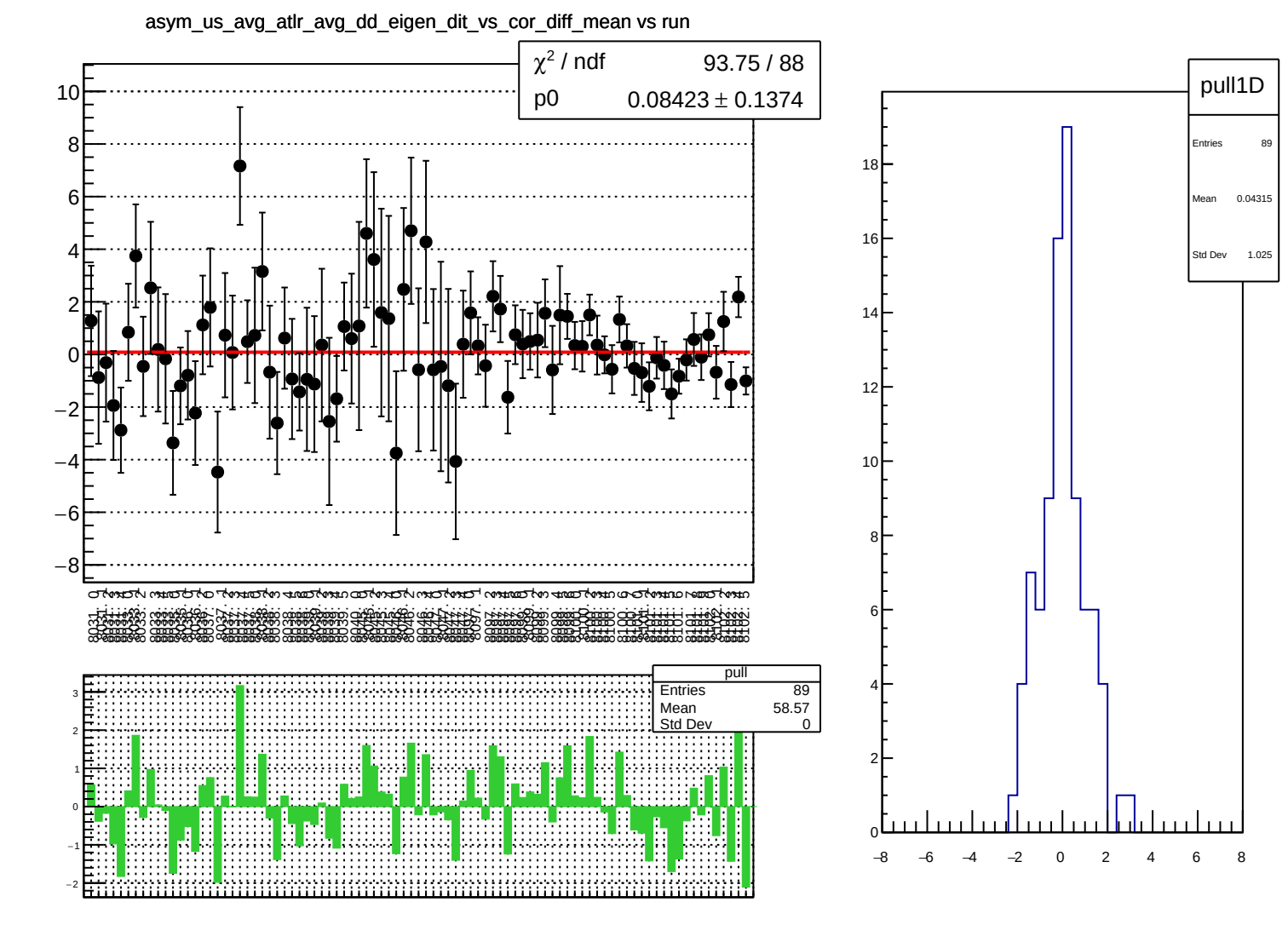

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.76 / 88
p0 0.08421 ± 0.1374
pull
Entries 89
Mean 58.57
Std Dev 0
pull1D
Entries 89
Mean 0.04316
Std Dev 1.025

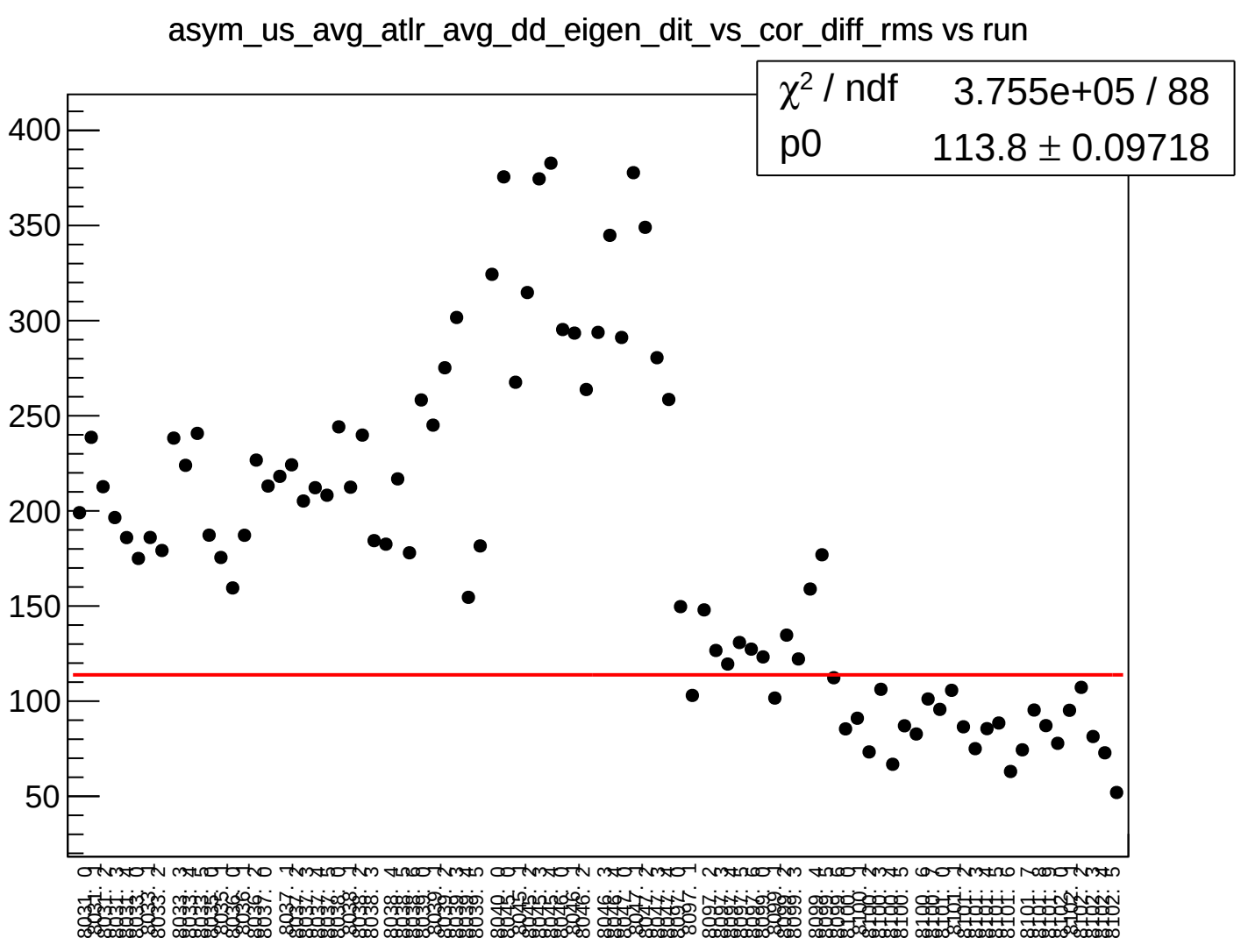

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.755e+05 / 88
p0 113.8 ± 0.09718
400
350
300
250
200
150
100
50

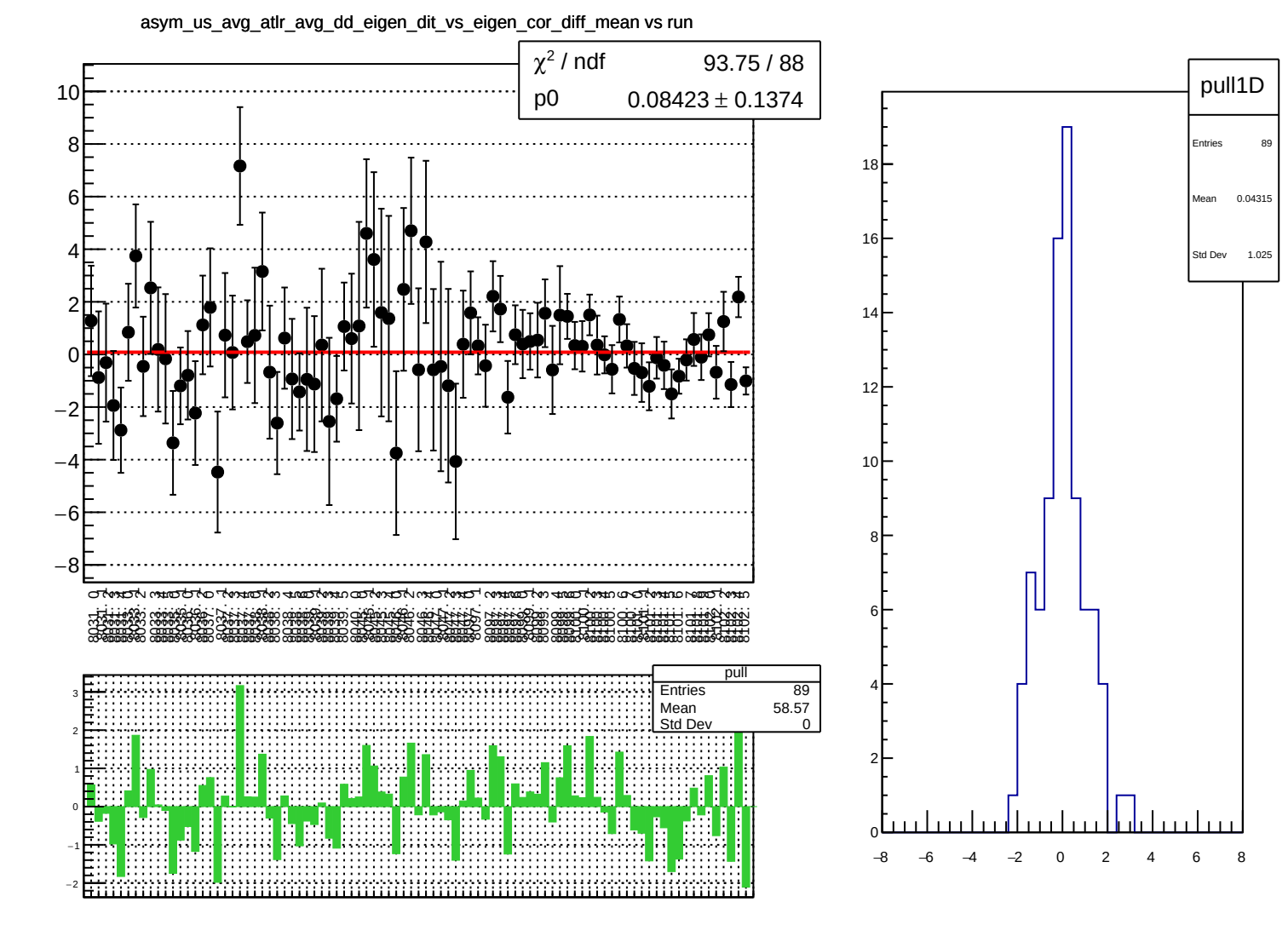

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 97.26 / 88
p0 −1.822e−06 ± 9.264e−06
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 89
Mean −53.27
Std Dev 0
2
1
0
−1
−2
−3

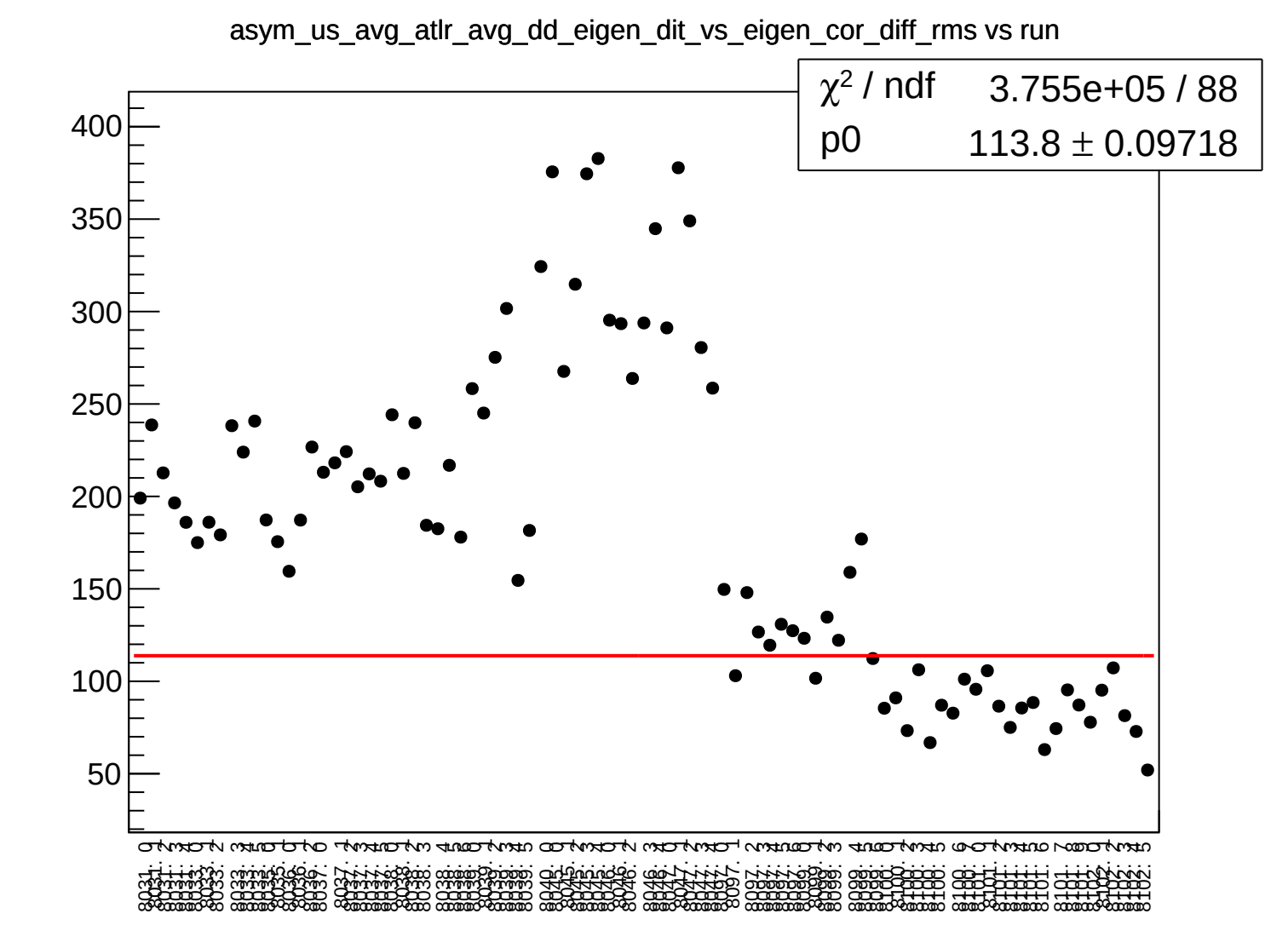

pull1D
Entries 89
Mean −0.02054
Std Dev 1.045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

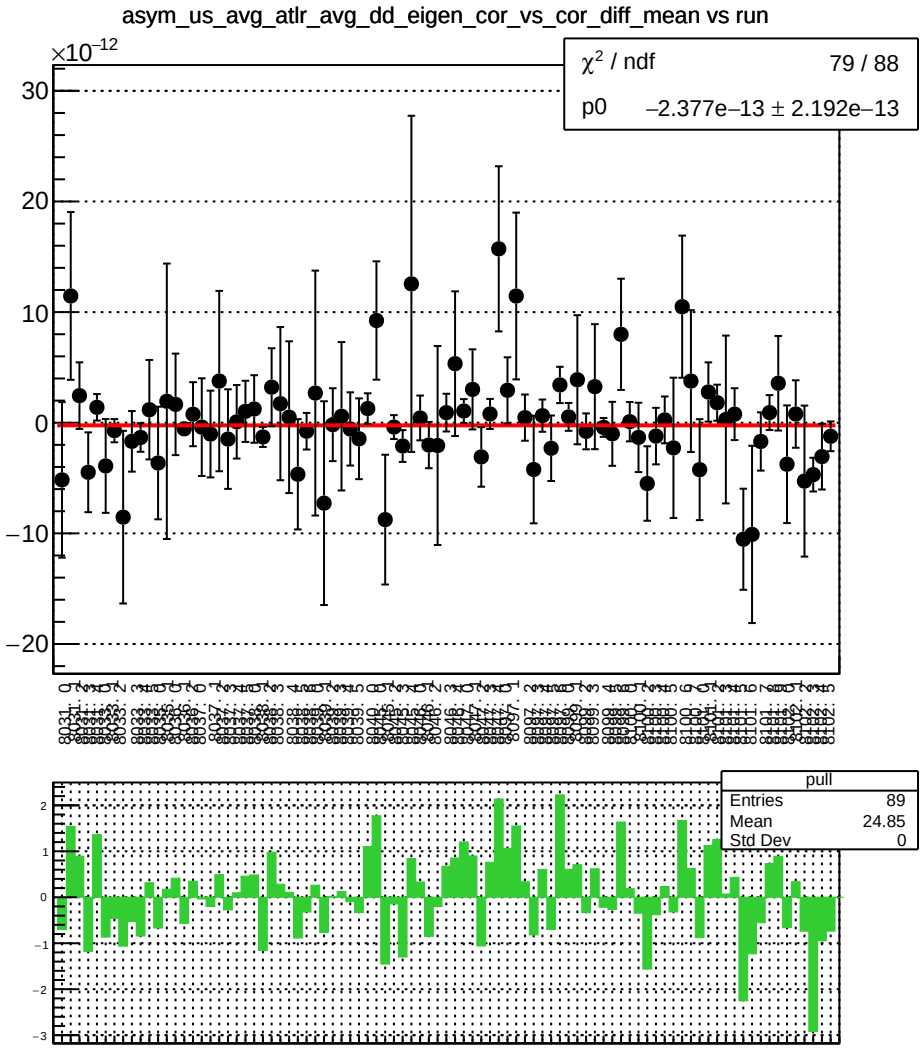

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.075e+05 / 88
p0 0.008389 ± 6.551e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006

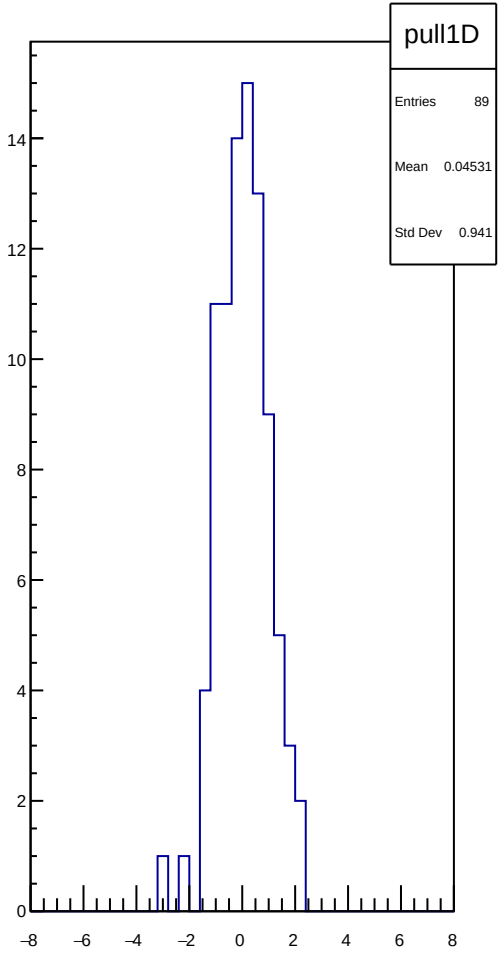

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
$\chi^2$ / ndf 93.75 / 88
p0 0.08423 ± 0.1374
pull
Entries 89
Mean 58.57
Std Dev 0
pull1D
Entries 89
Mean 0.04315
Std Dev 1.025

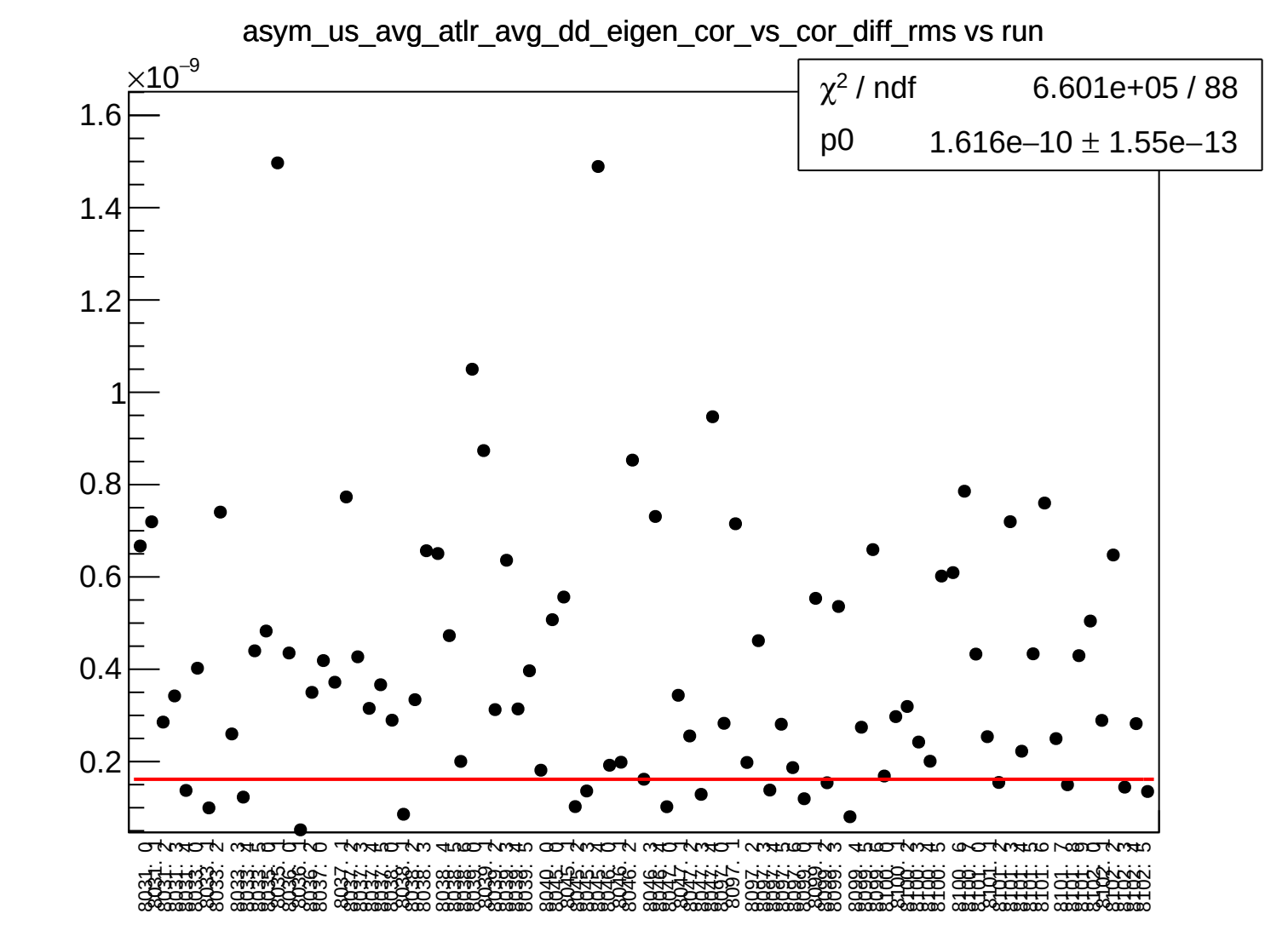

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.755e+05 / 88
p0 113.8 ± 0.09718
400
350
300
250
200
150
100
50

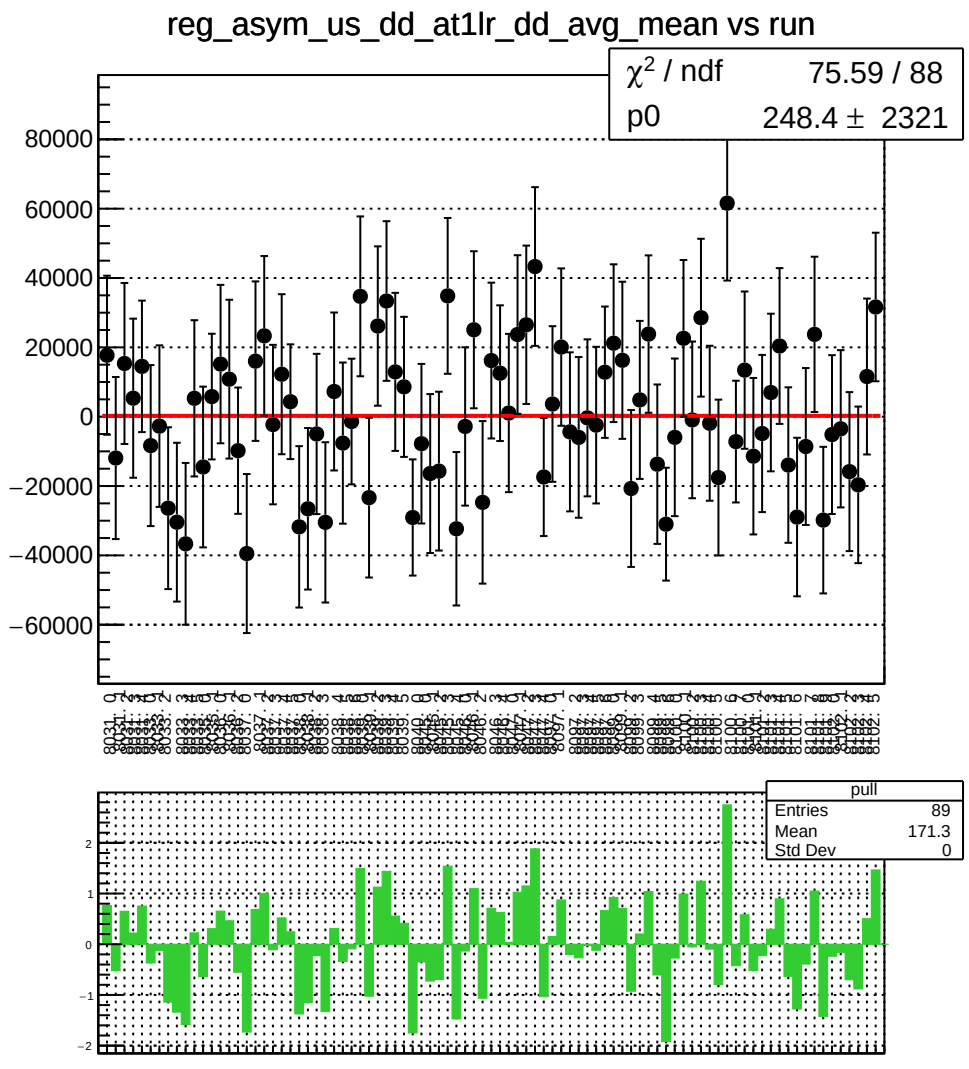

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.75 / 88
p0 0.08423 ± 0.1374
pull
Entries 89
Mean 58.57
Std Dev 0
pull1D
Entries 89
Mean 0.04315
Std Dev 1.025

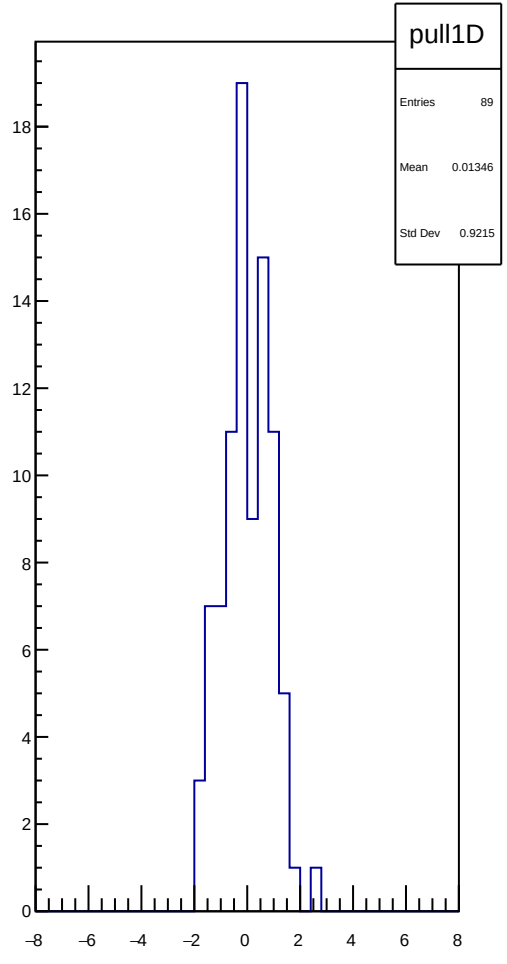

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.755e+05 / 88
p0 113.8 ± 0.09718
400
350
300
250
200
150
100
50

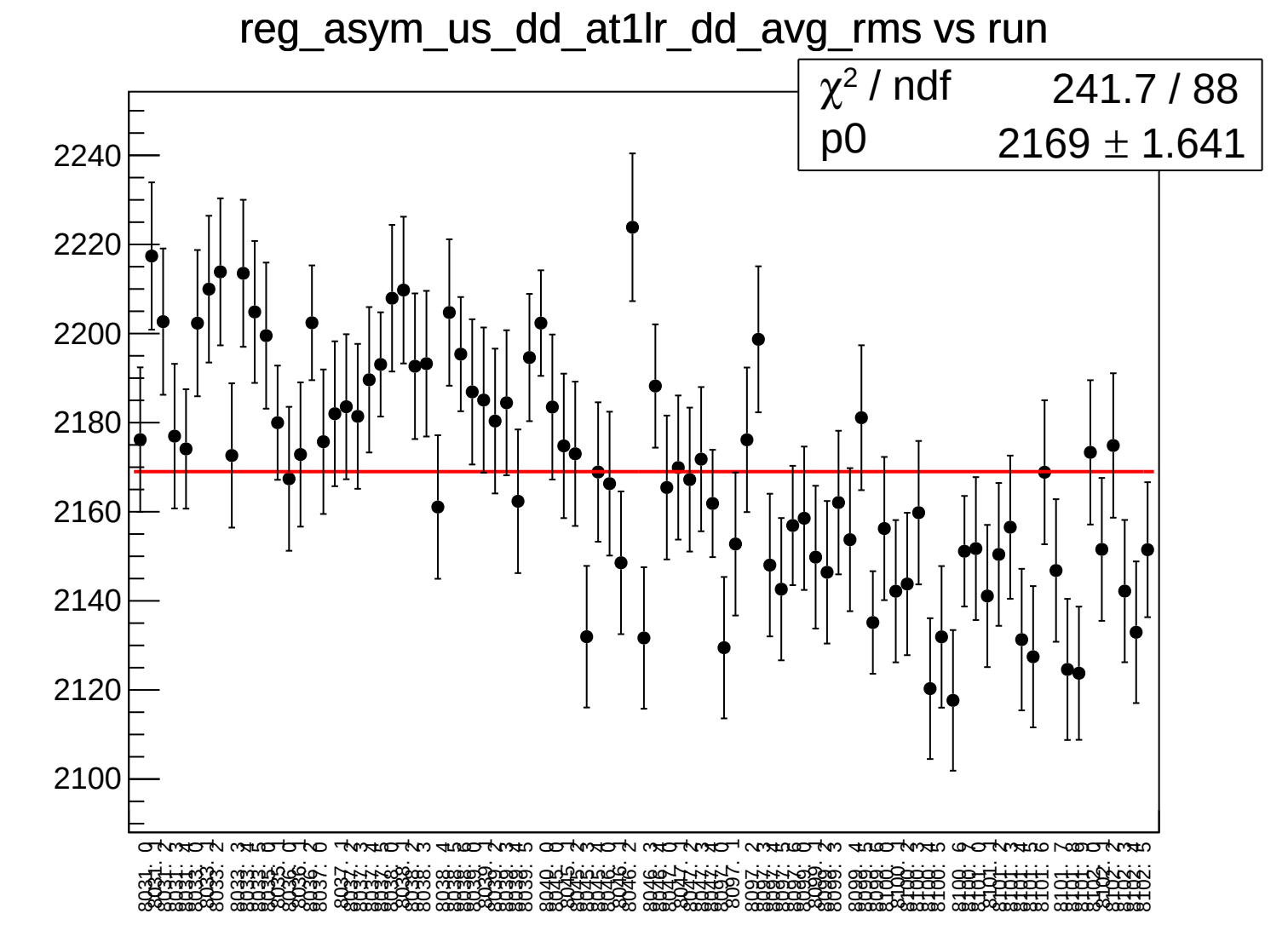

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79 / 88
p0 −2.377e−13 ± 2.192e−13
pull
Entries 89
Mean 24.85
Std Dev 0

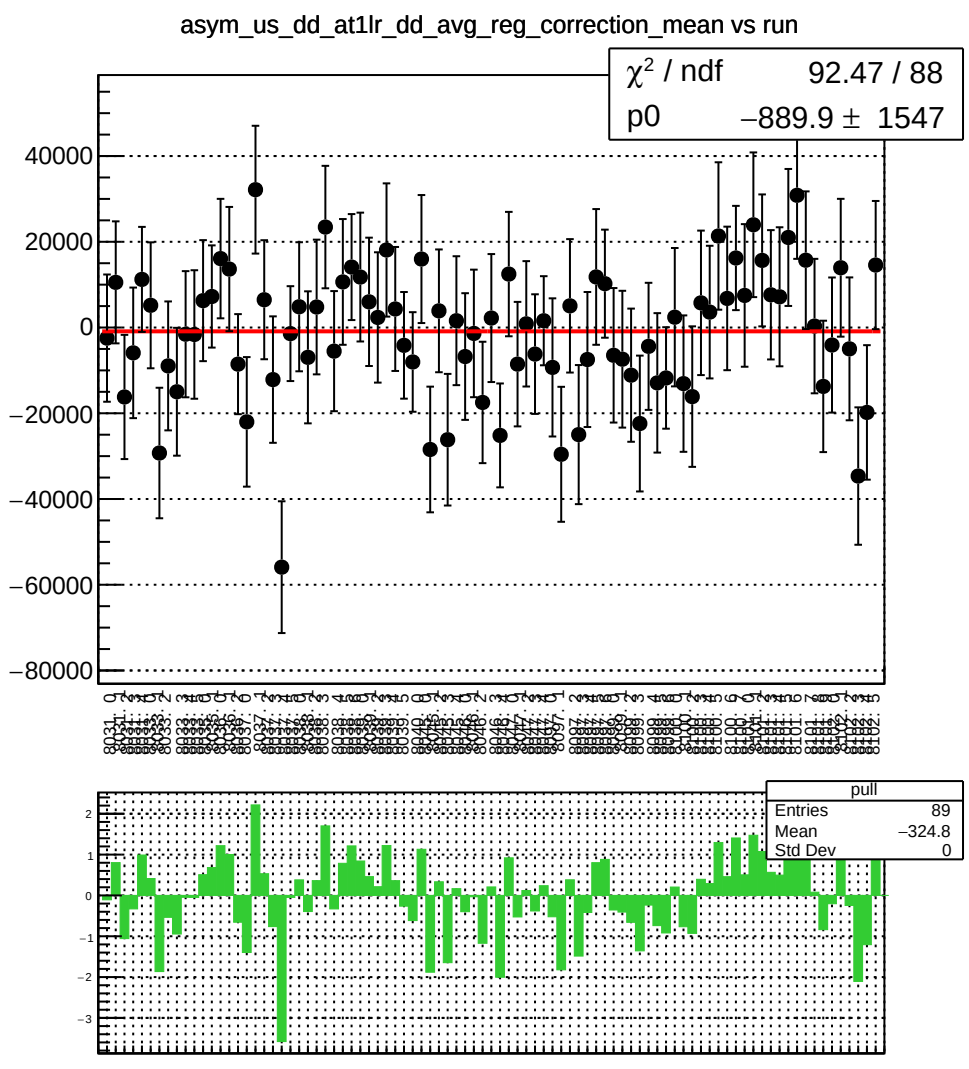

pull1D
Entries 89
Mean 0.04531
Std Dev 0.941

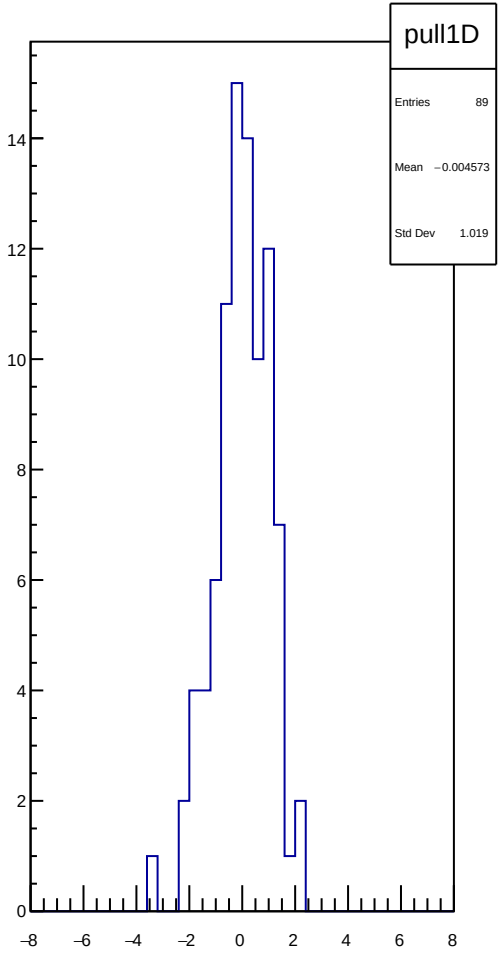

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.601e+05 / 88
p0 1.616e−10 ± 1.55e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

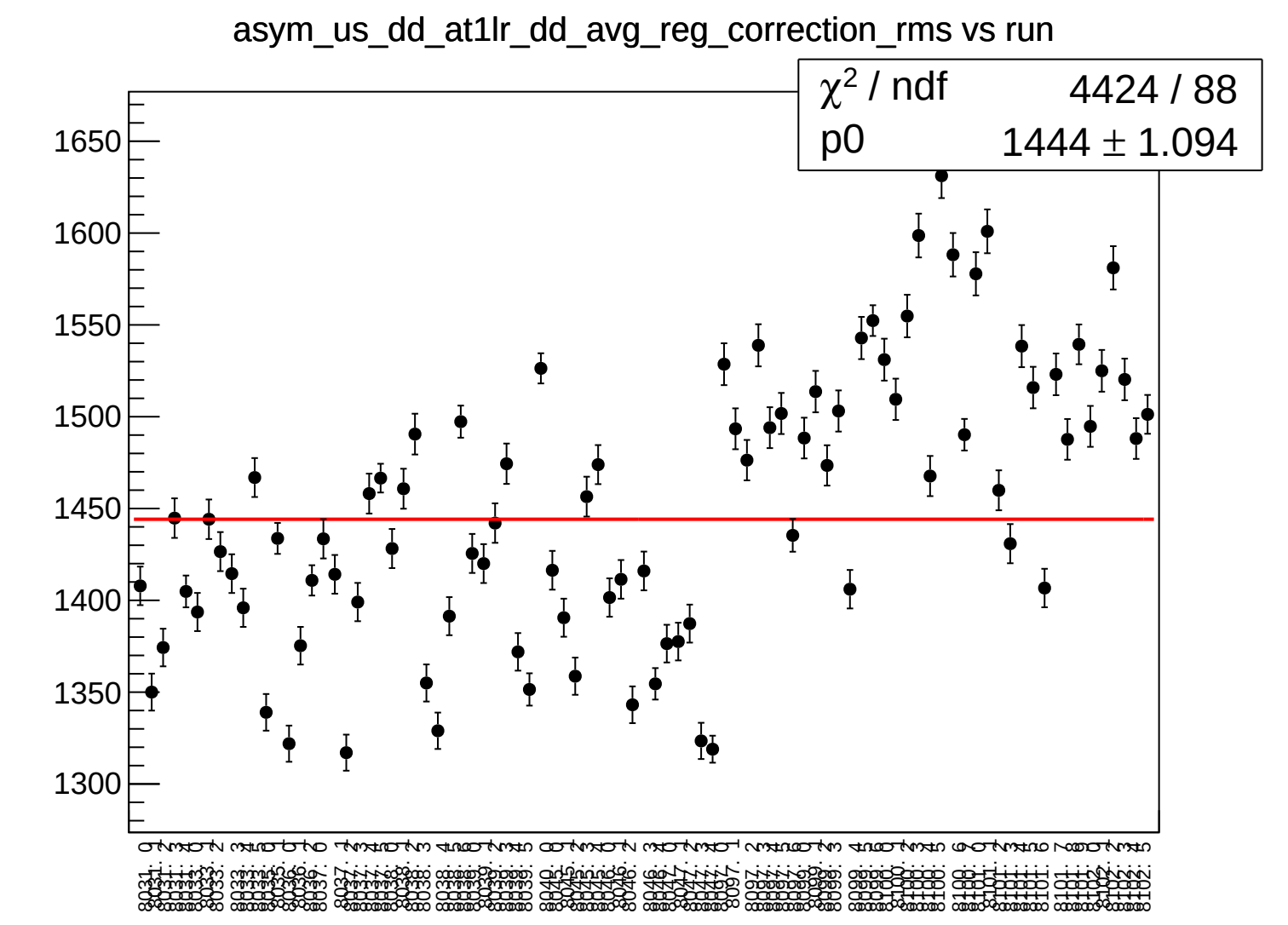

reg_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 75.59 / 88
p0 248.4 ± 2321
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 171.3
Std Dev 0
2
1
0
−1
−2

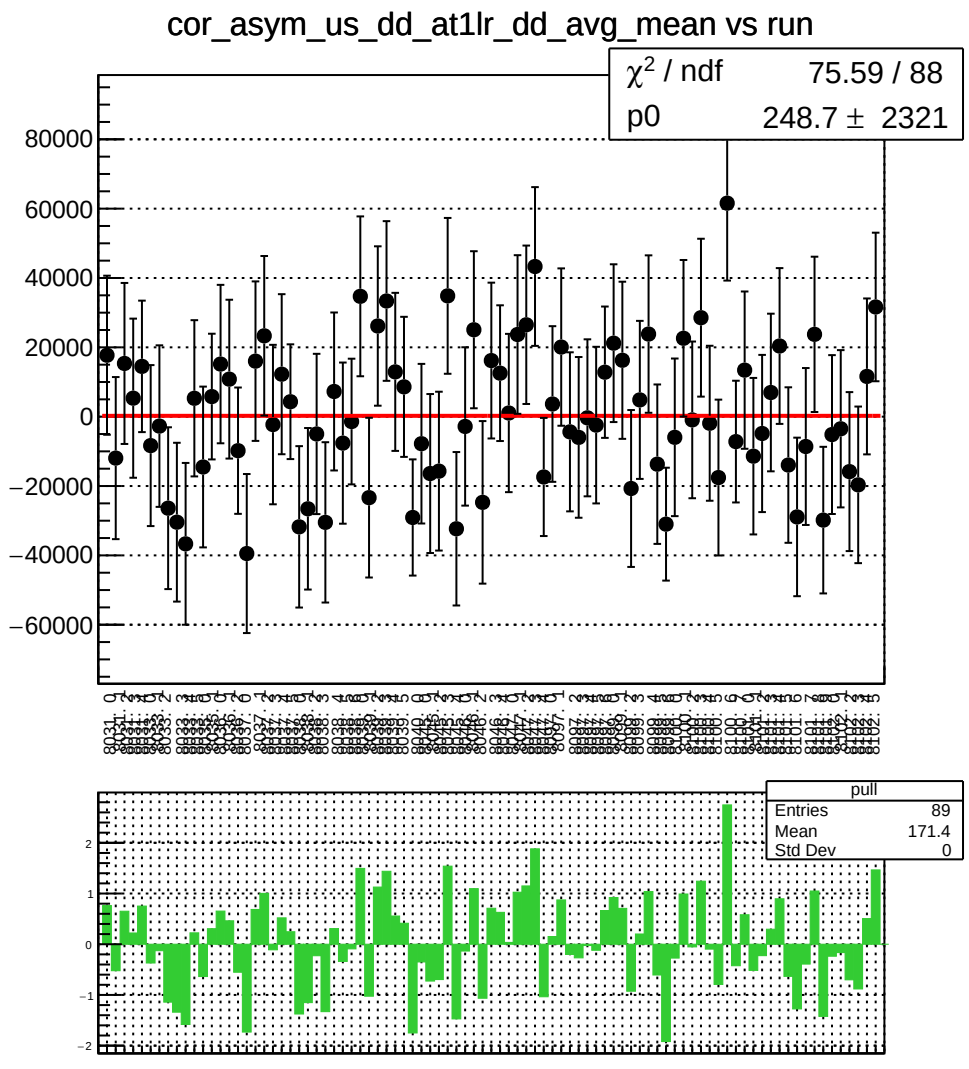

pull1D
Entries 89
Mean 0.01346
Std Dev 0.9215
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

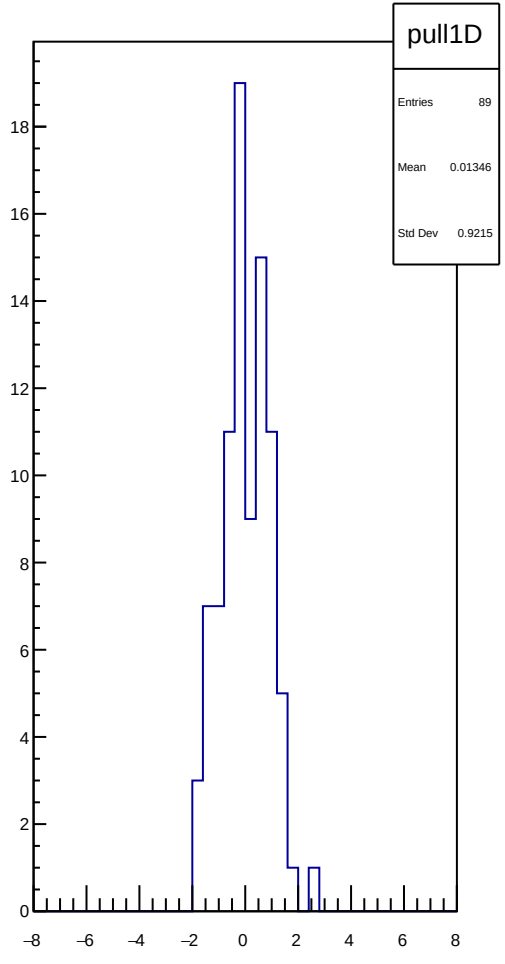

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 241.7 / 88
p0 2169 ± 1.641
2240
2220
2200
2180
2160
2140
2120
2100

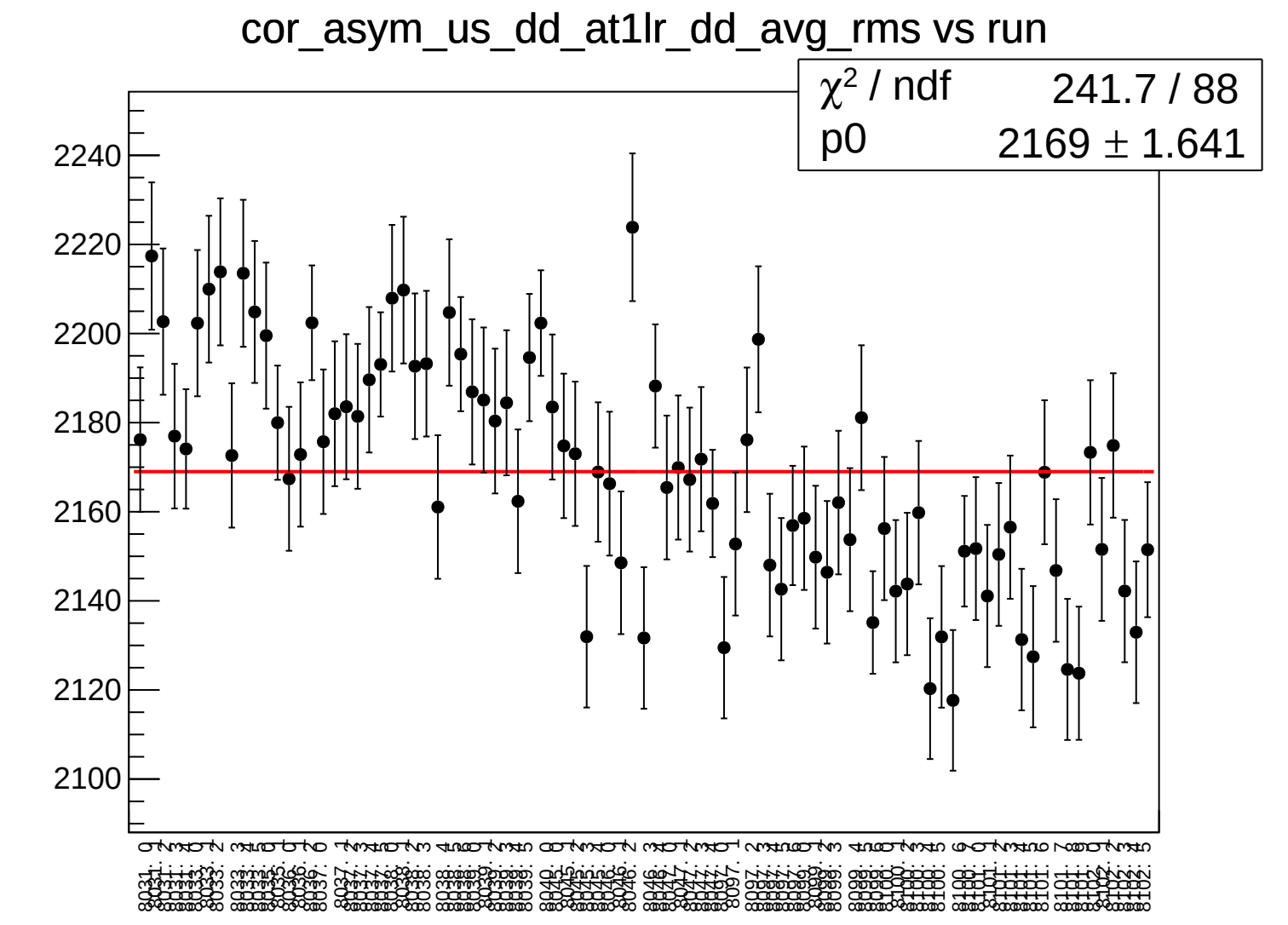

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 92.47 / 88
p0 −889.9 ± 1547
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −324.8
Std Dev 0
2
1
0
−1
−2
−3

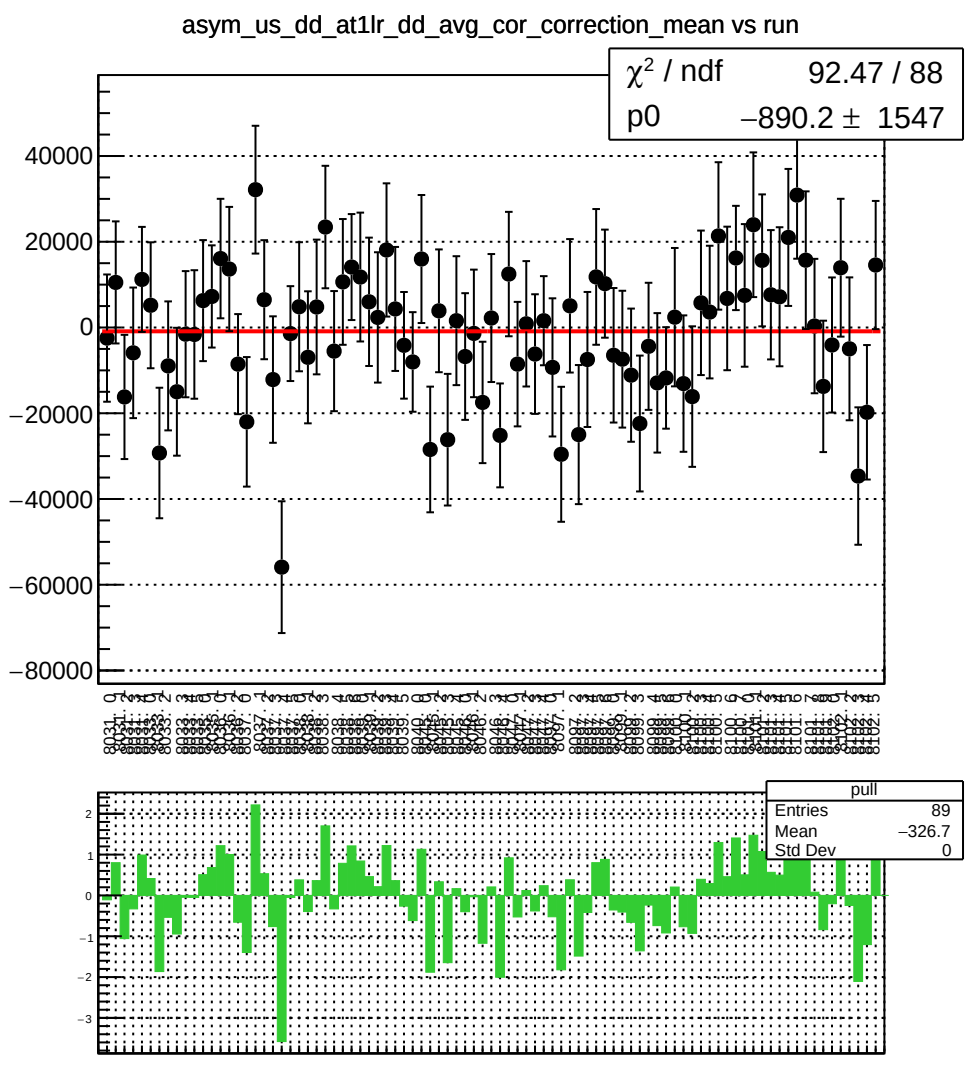

pull1D
Entries 89
Mean −0.004573
Std Dev 1.019
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

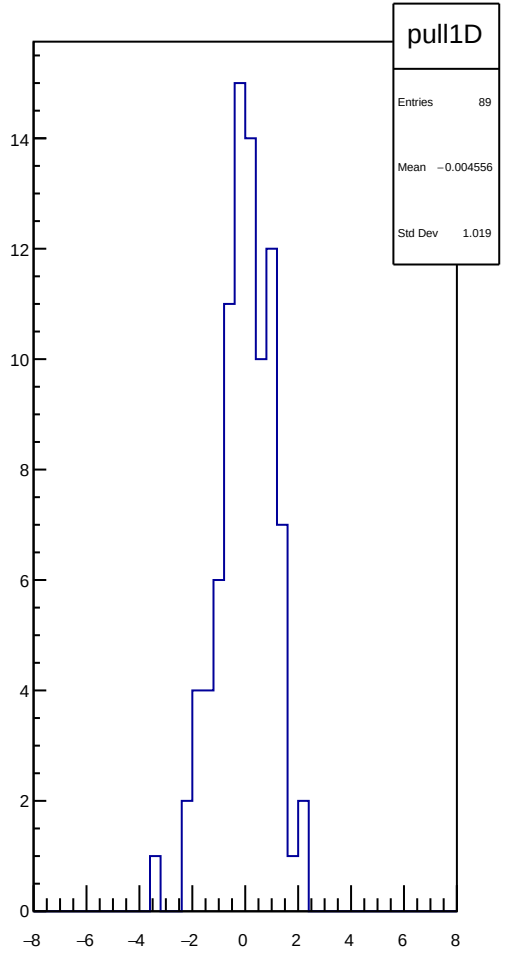

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ² / ndf 4424 / 88
p0 1444 ± 1.094
1650
1600
1550
1500
1450
1400
1350
1300

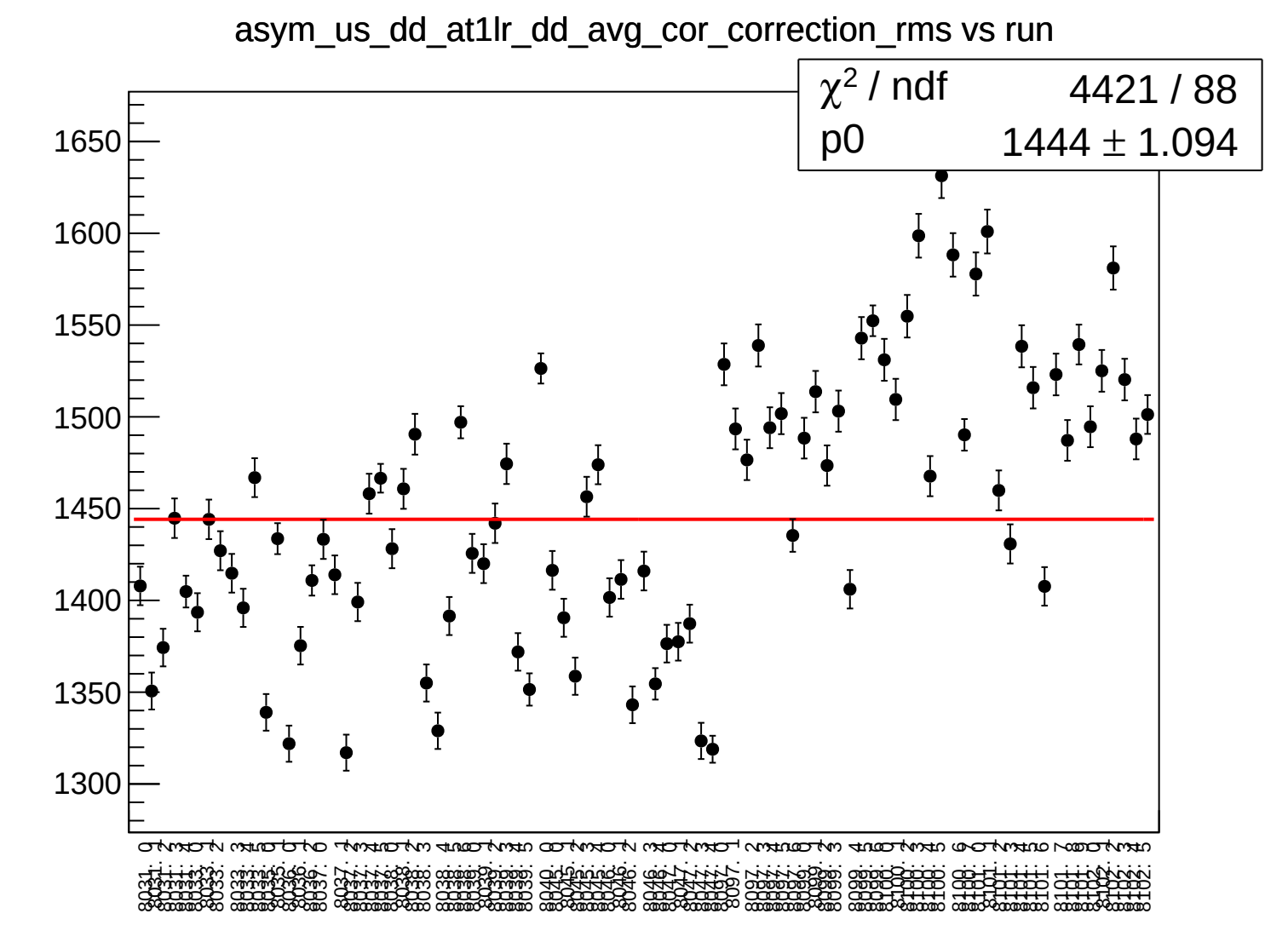

cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 75.59 / 88
p0 248.7 ± 2321
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 171.4
Std Dev 0
2
1
0
−1
−2

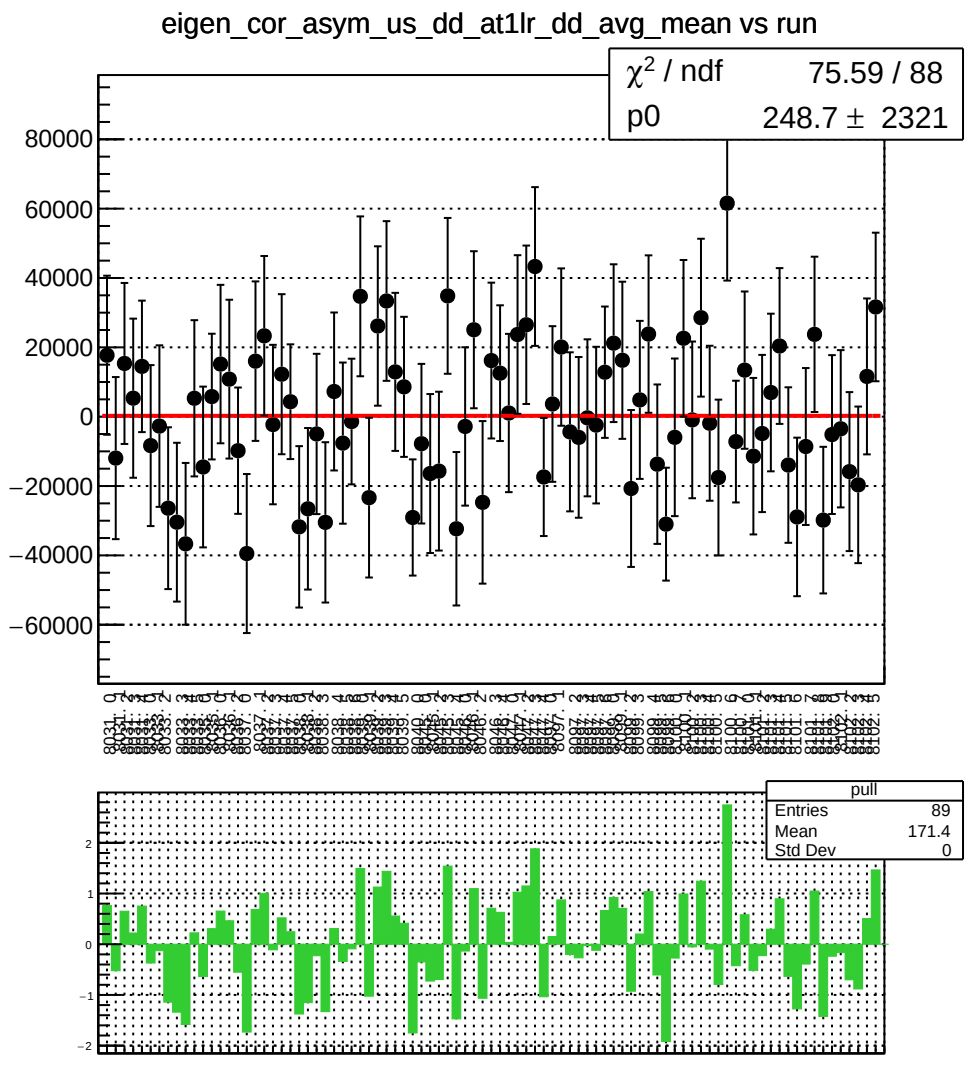

pull1D
Entries 89
Mean 0.01346
Std Dev 0.9215
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

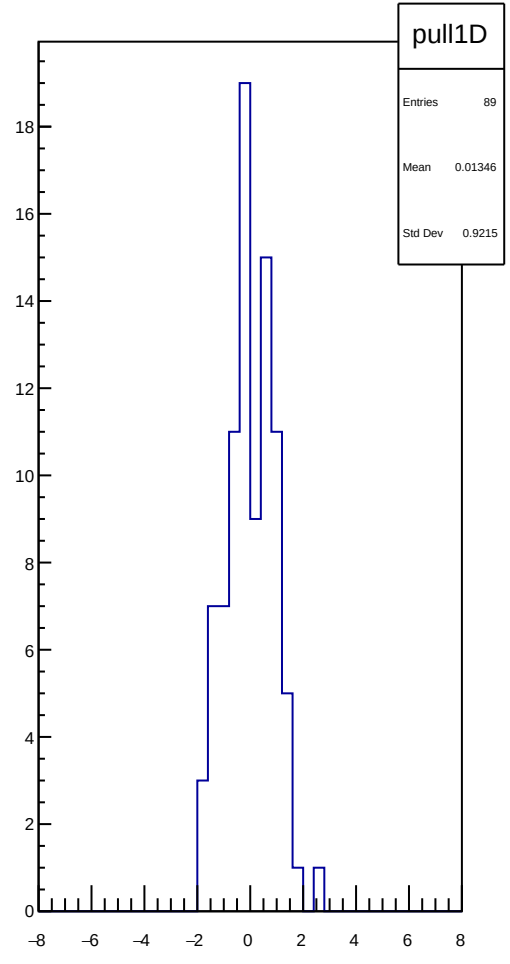

cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 241.7 / 88
p0 2169 ± 1.641
2240
2220
2200
2180
2160
2140
2120
2100

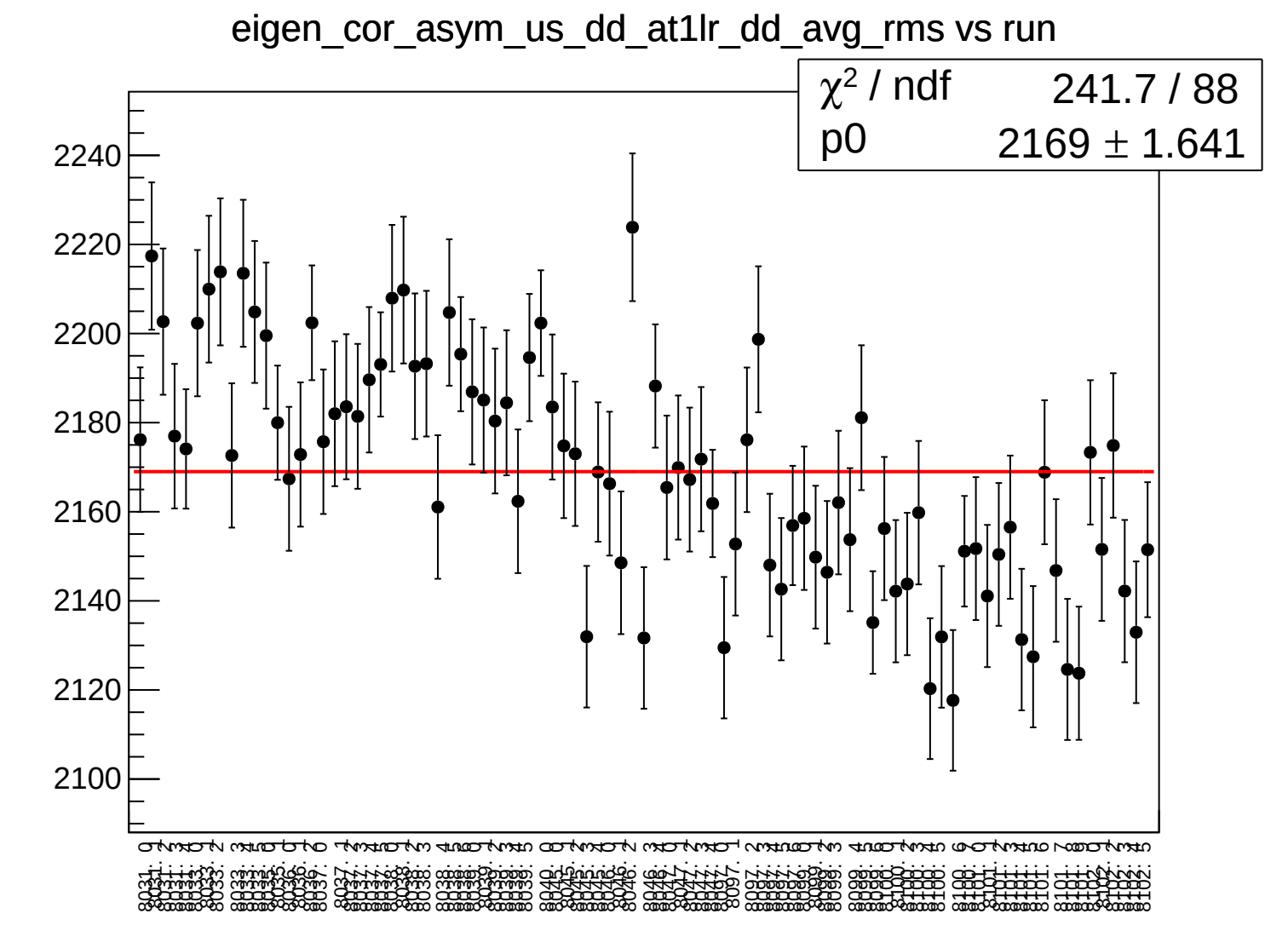

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 92.47 / 88
p0 −890.2 ± 1547
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −326.7
Std Dev 0
2
1
0
−1
−2
−3

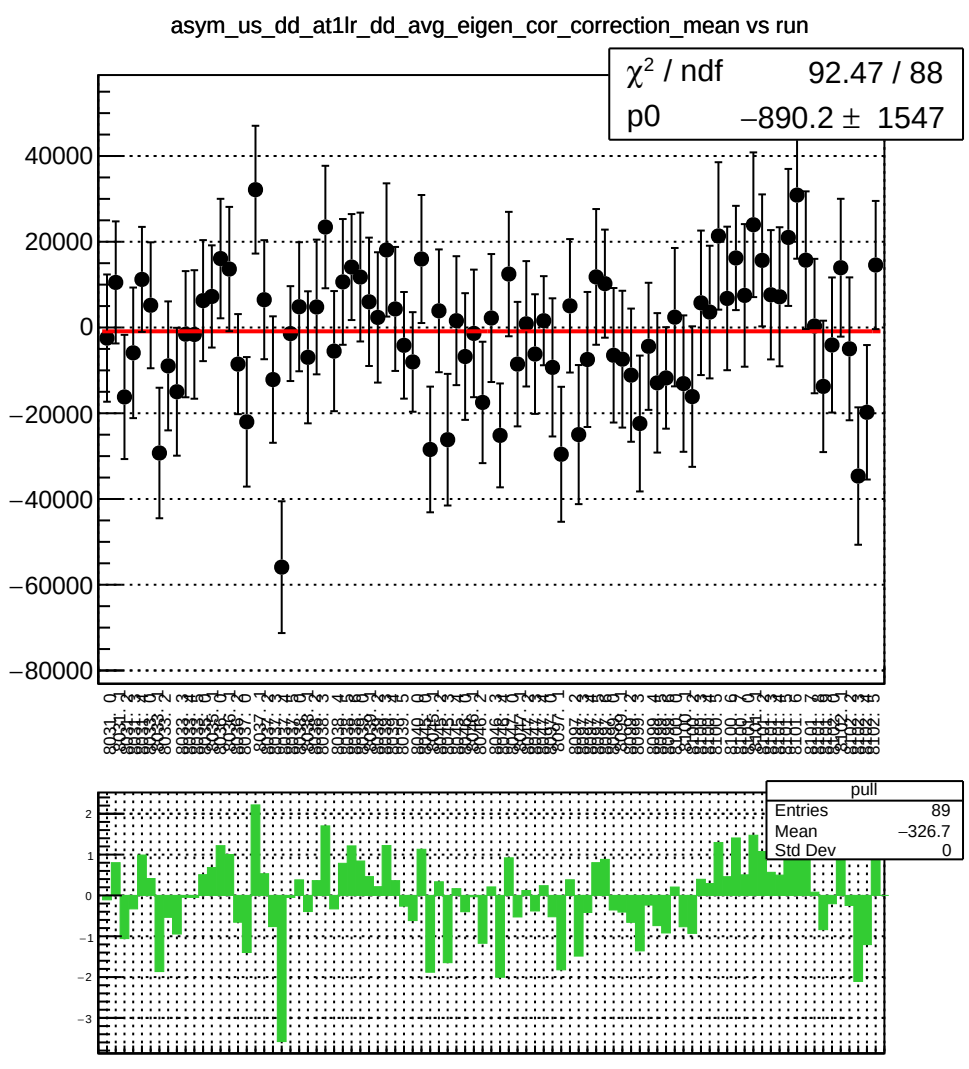

pull1D
Entries 89
Mean −0.004556
Std Dev 1.019
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

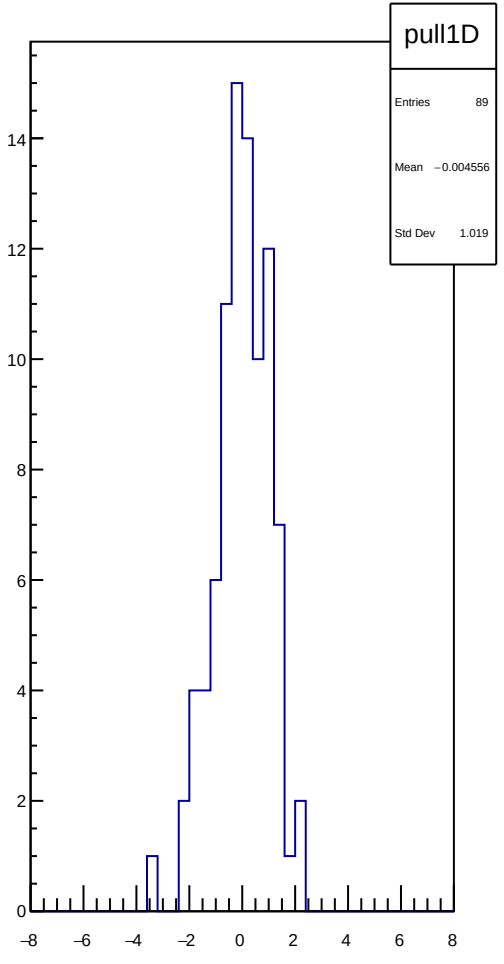

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ² / ndf 4421 / 88
p0 1444 ± 1.094
1650
1600
1550
1500
1450
1400
1350
1300

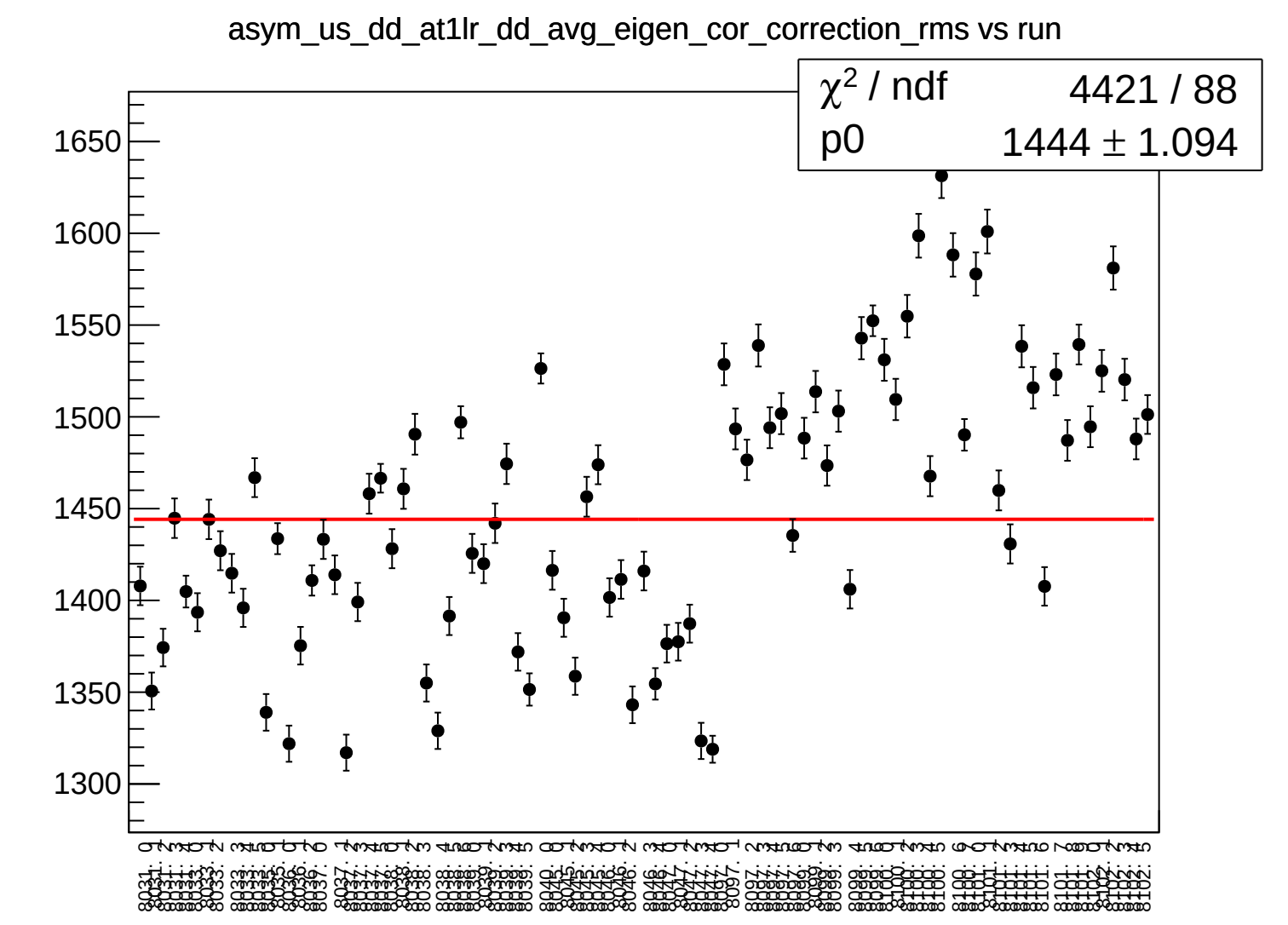

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 75.59 / 88
p0 248.7 ± 2321
pull
Entries 89
Mean 171.4
Std Dev 0

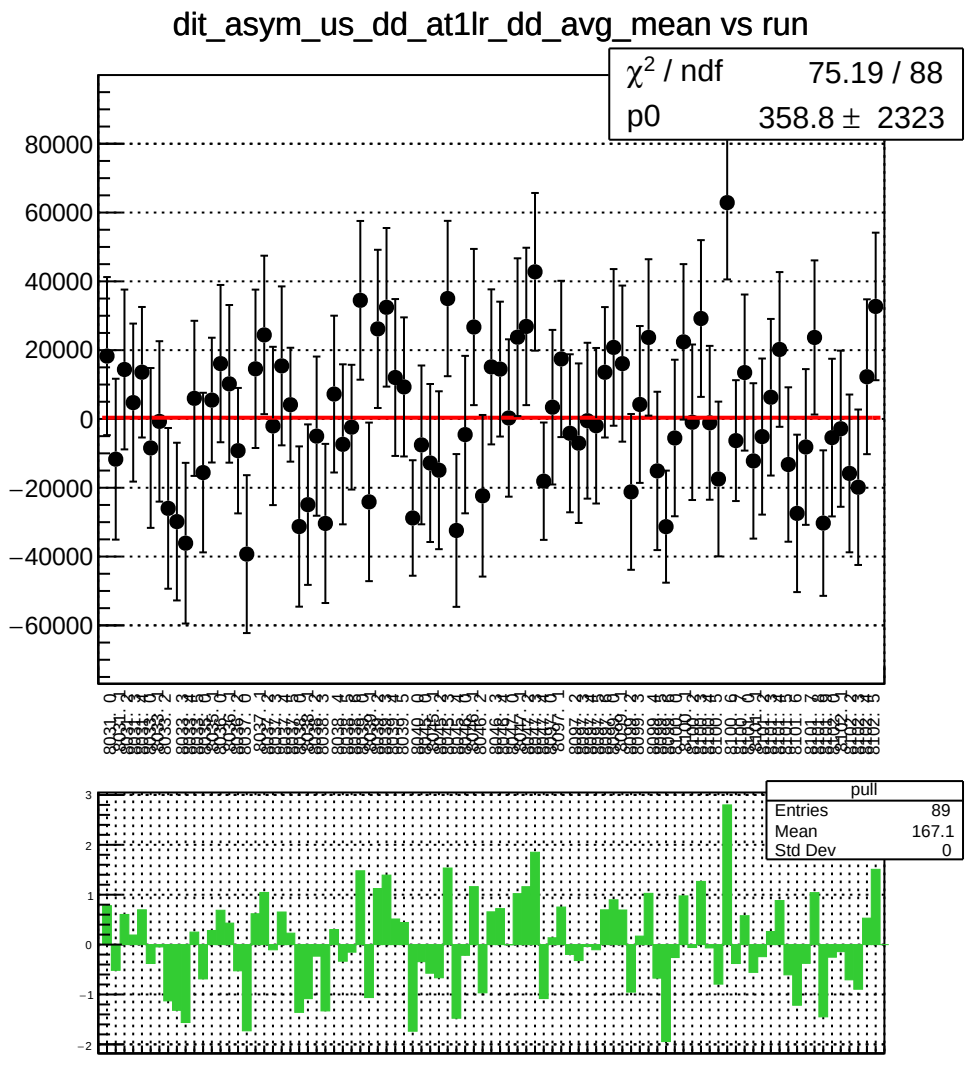

pull1D
Entries 89
Mean 0.01346
Std Dev 0.9215

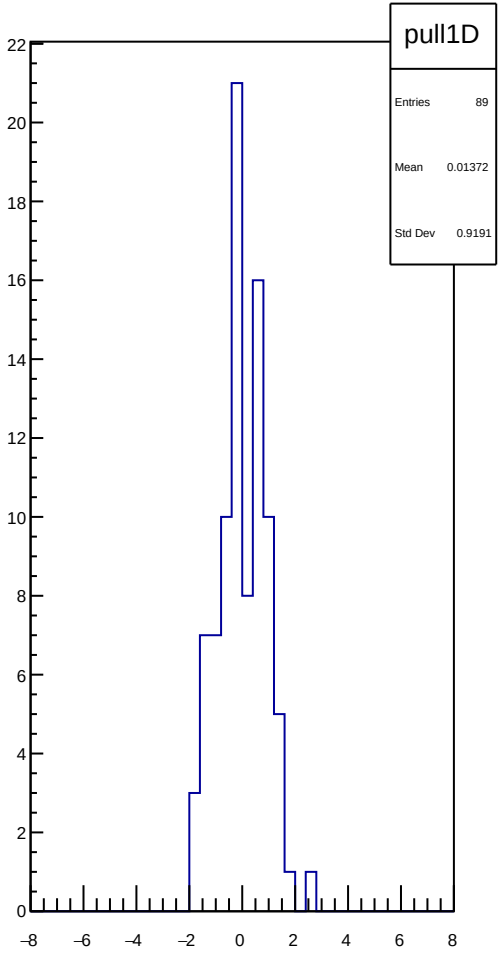

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 241.7 / 88
p0 2169 ± 1.641
2240
2220
2200
2180
2160
2140
2120
2100

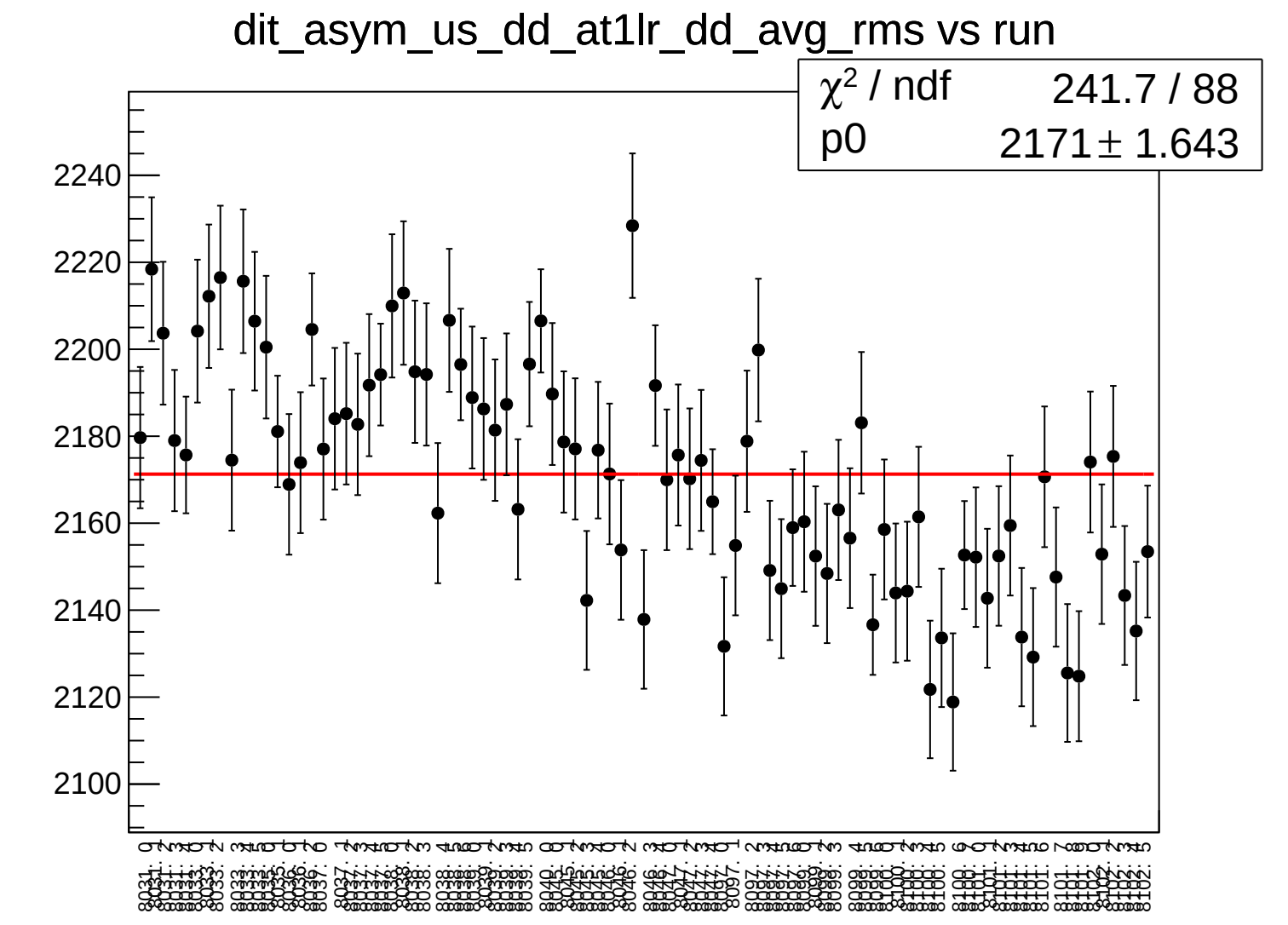

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 92.47 / 88
p0 −890.2 ± 1547
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −326.7
Std Dev 0
2
1
0
−1
−2
−3

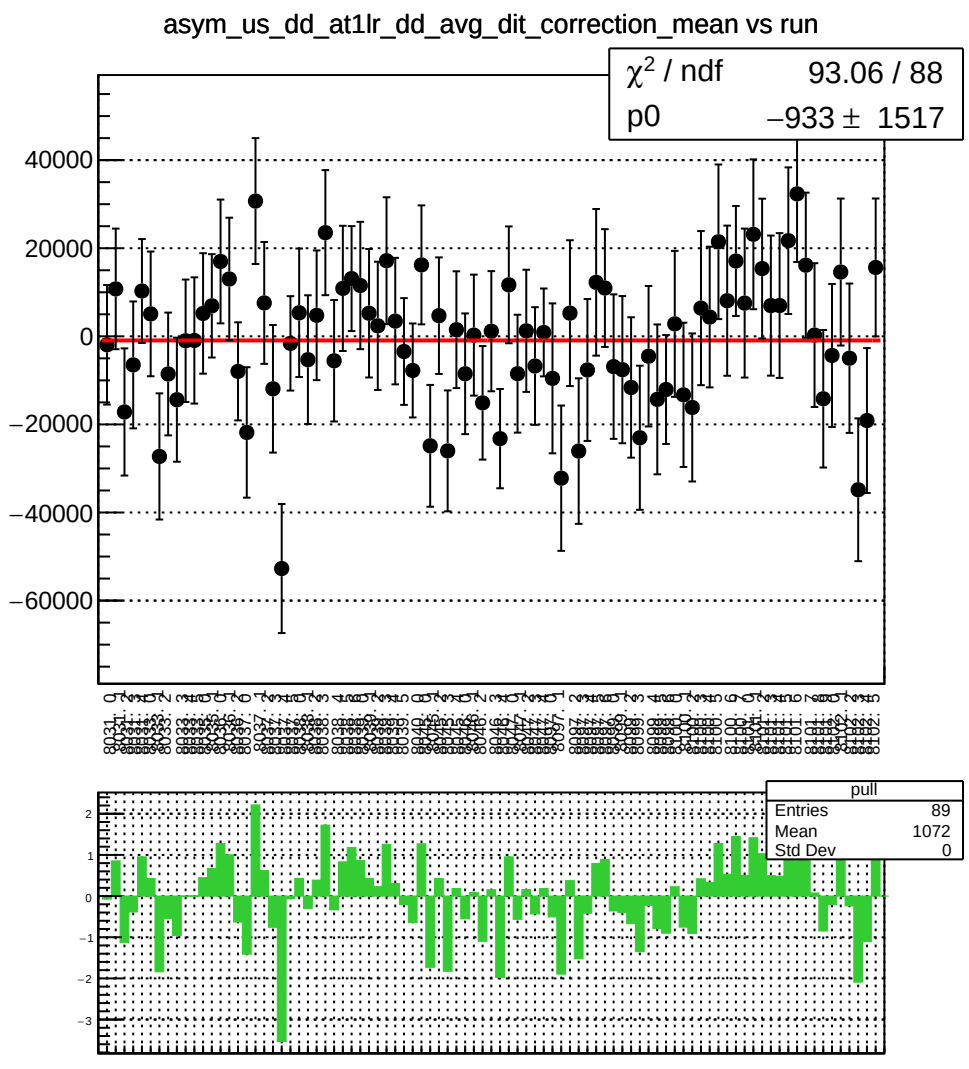

pull1D
Entries 89
Mean −0.004556
Std Dev 1.019
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

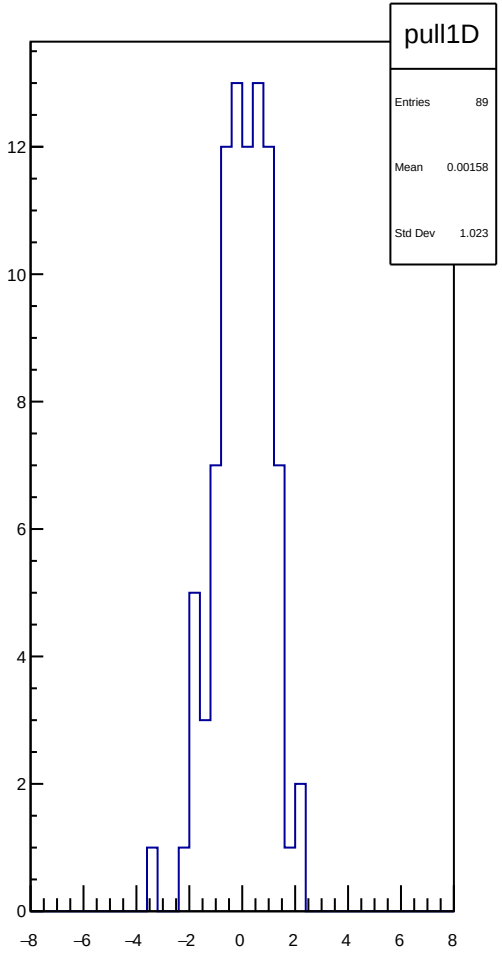

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 4421 / 88
p0 1444 ± 1.094
1650
1600
1550
1500
1450
1400
1350
1300

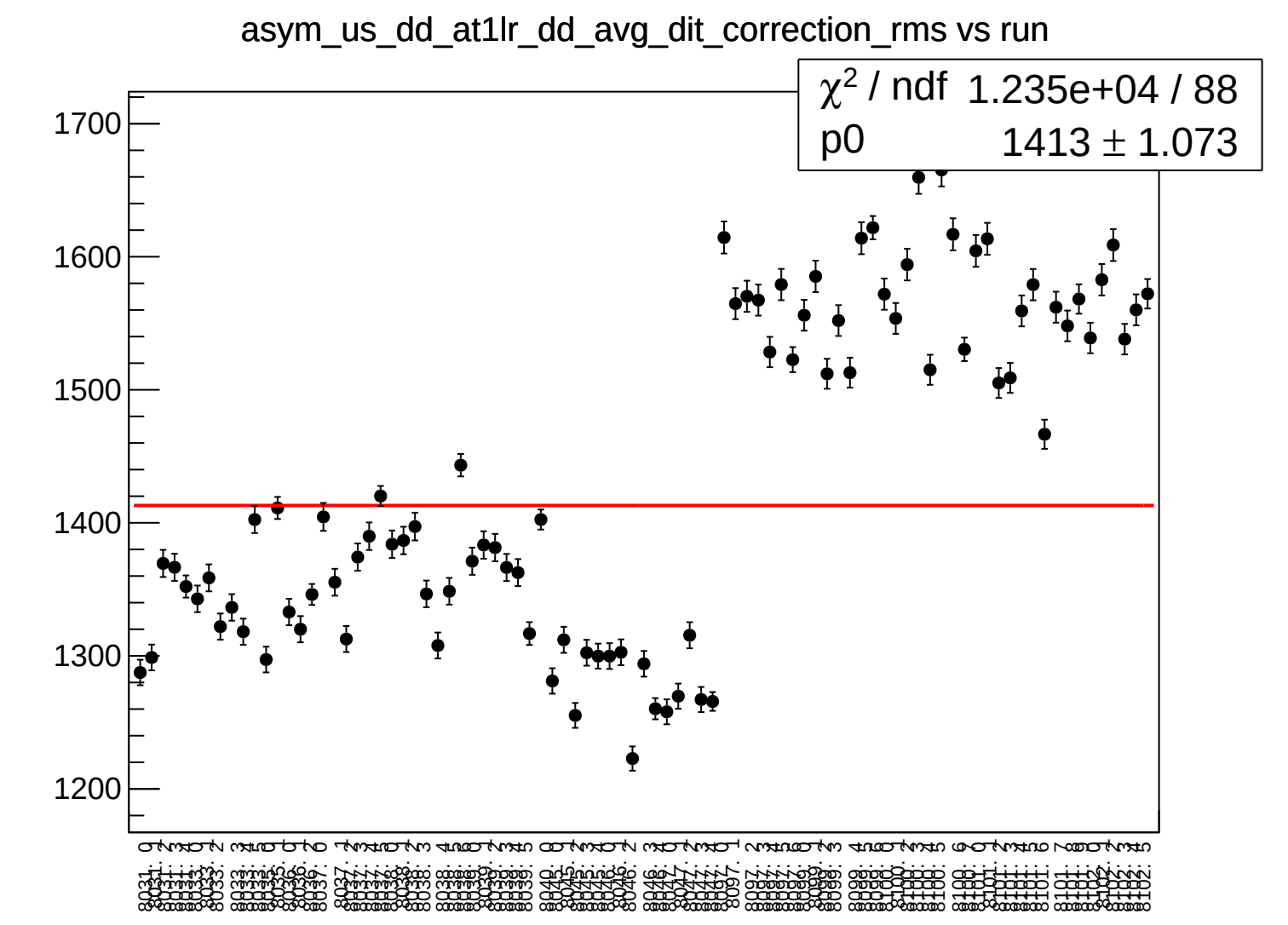

dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 75.19 / 88
p0 358.8 ± 2323
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 167.1
Std Dev 0
3
2
1
0
−1
−2

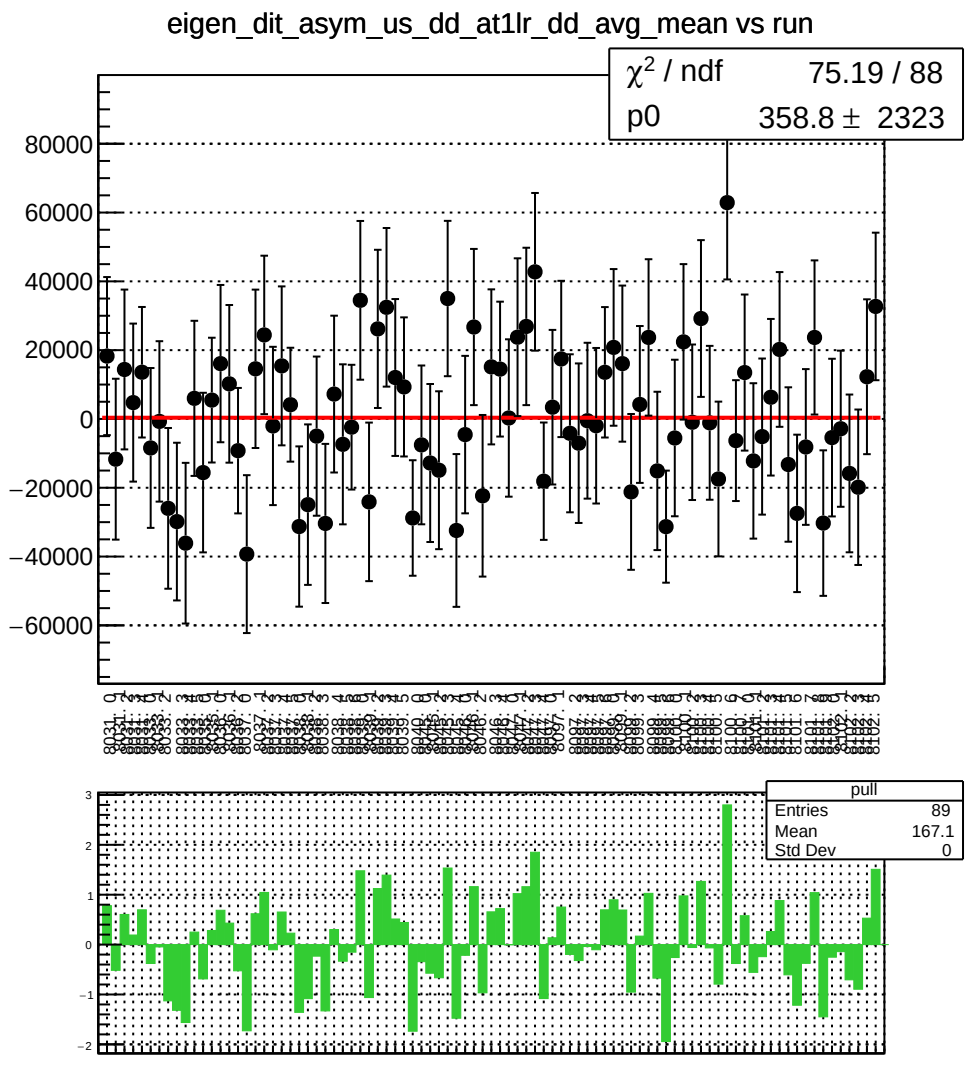

pull1D
Entries 89
Mean 0.01372
Std Dev 0.9191
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

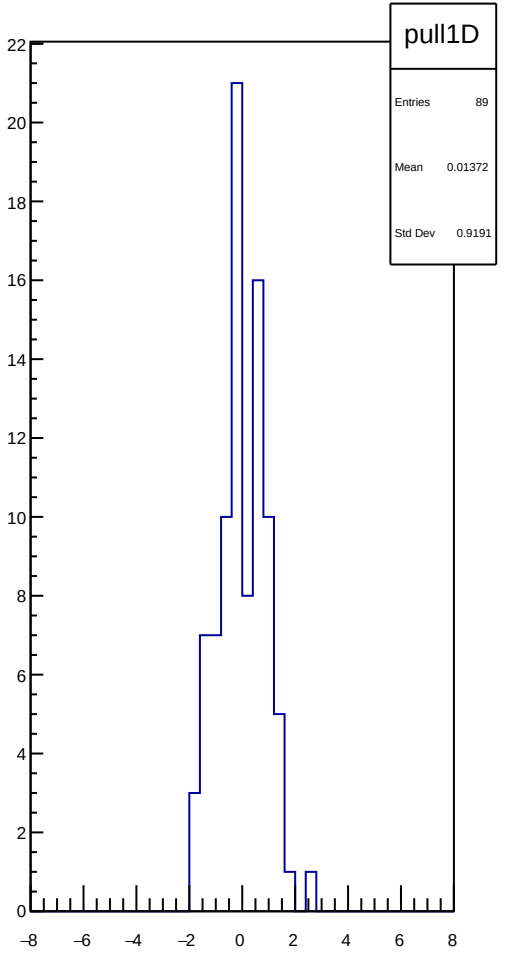

dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 241.7 / 88
p0 2171 ± 1.643
2240
2220
2200
2180
2160
2140
2120
2100

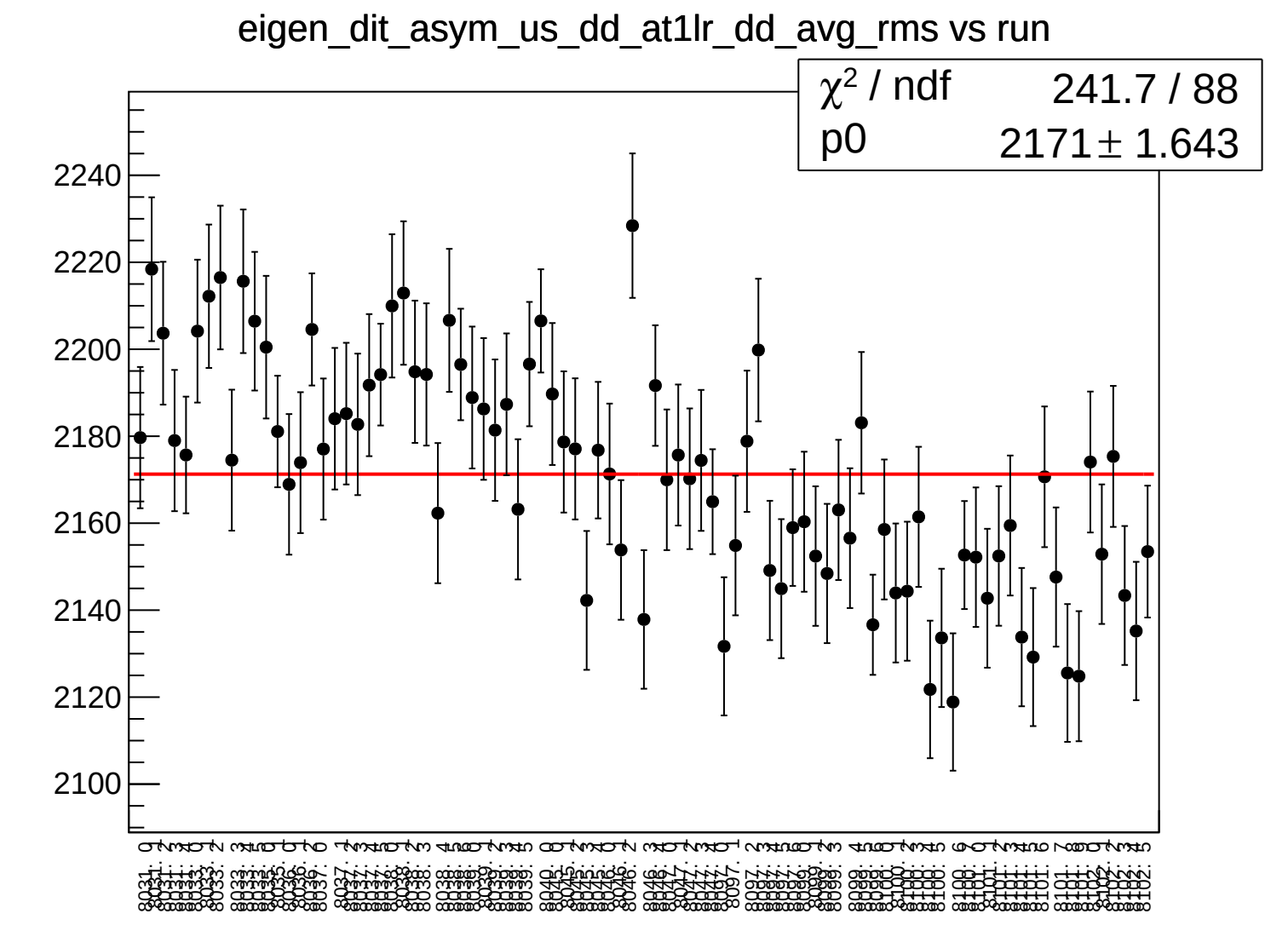

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
χ² / ndf 93.06 / 88
p0 −933 ± 1517
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 1072
Std Dev 0
2
1
0
−1
−2
−3

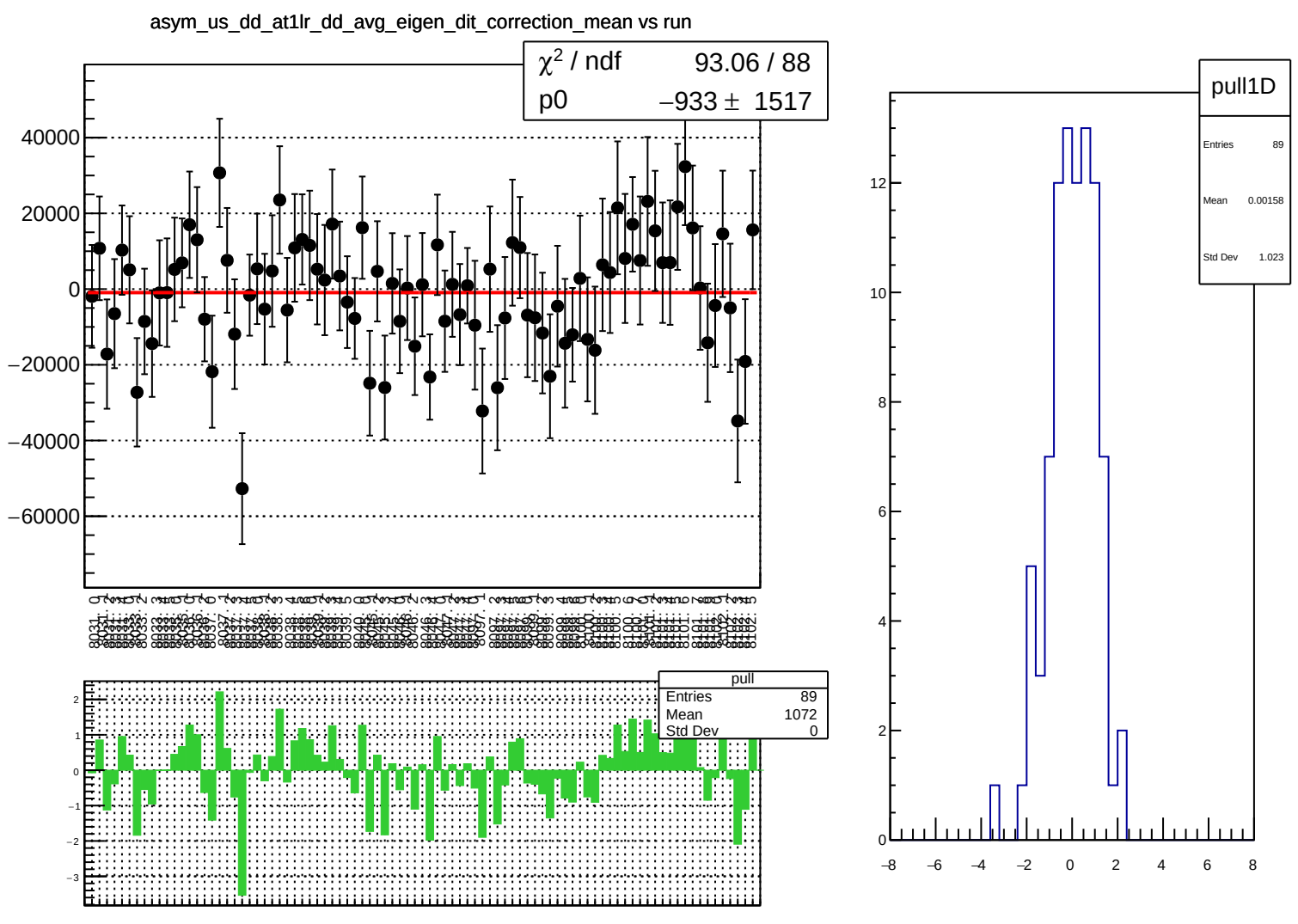

pull1D
Entries 89
Mean 0.00158
Std Dev 1.023
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

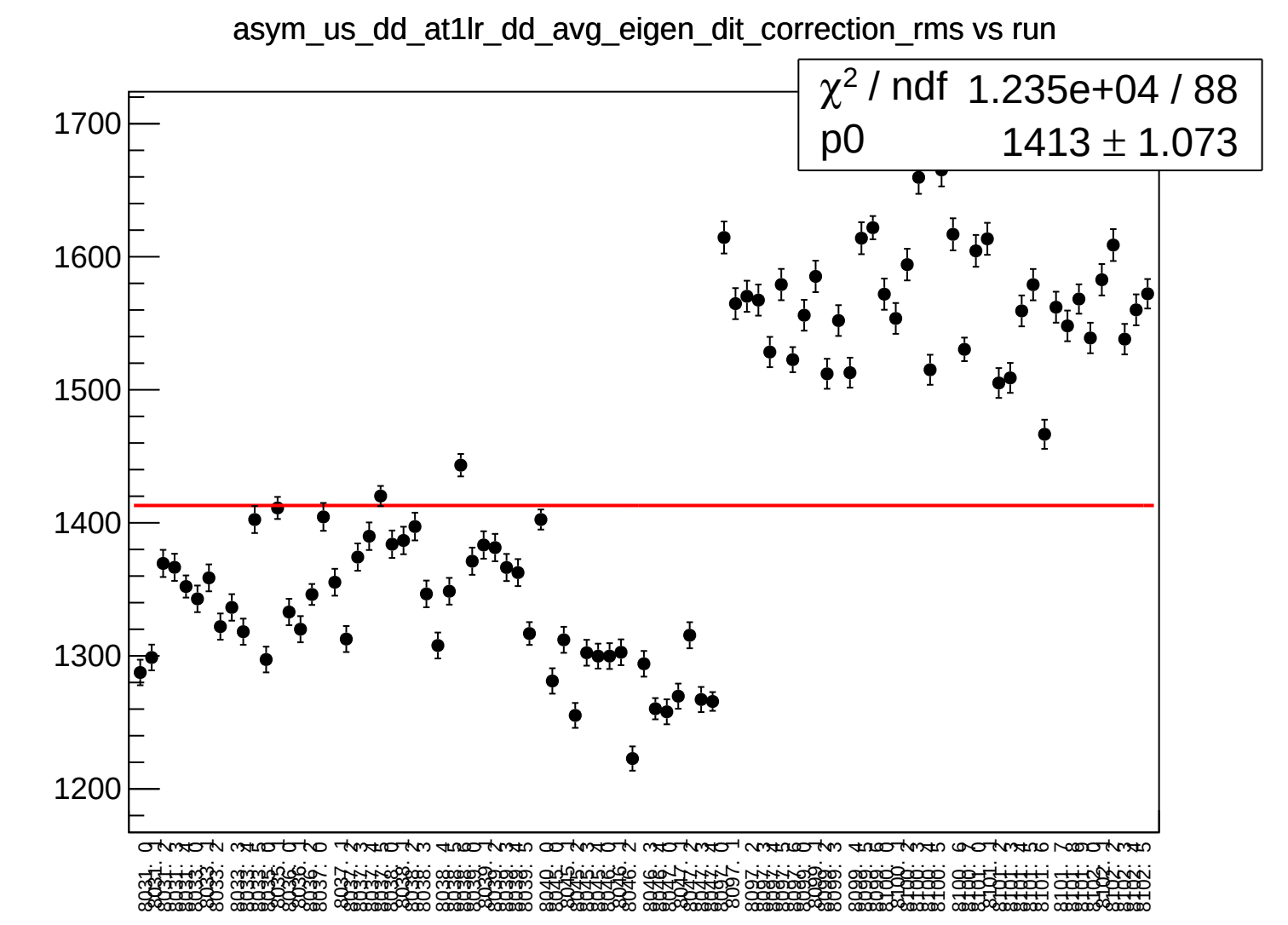

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ² / ndf 1.235e+04 / 88
p0 1413 ± 1.073
1700
1600
1500
1400
1300
1200

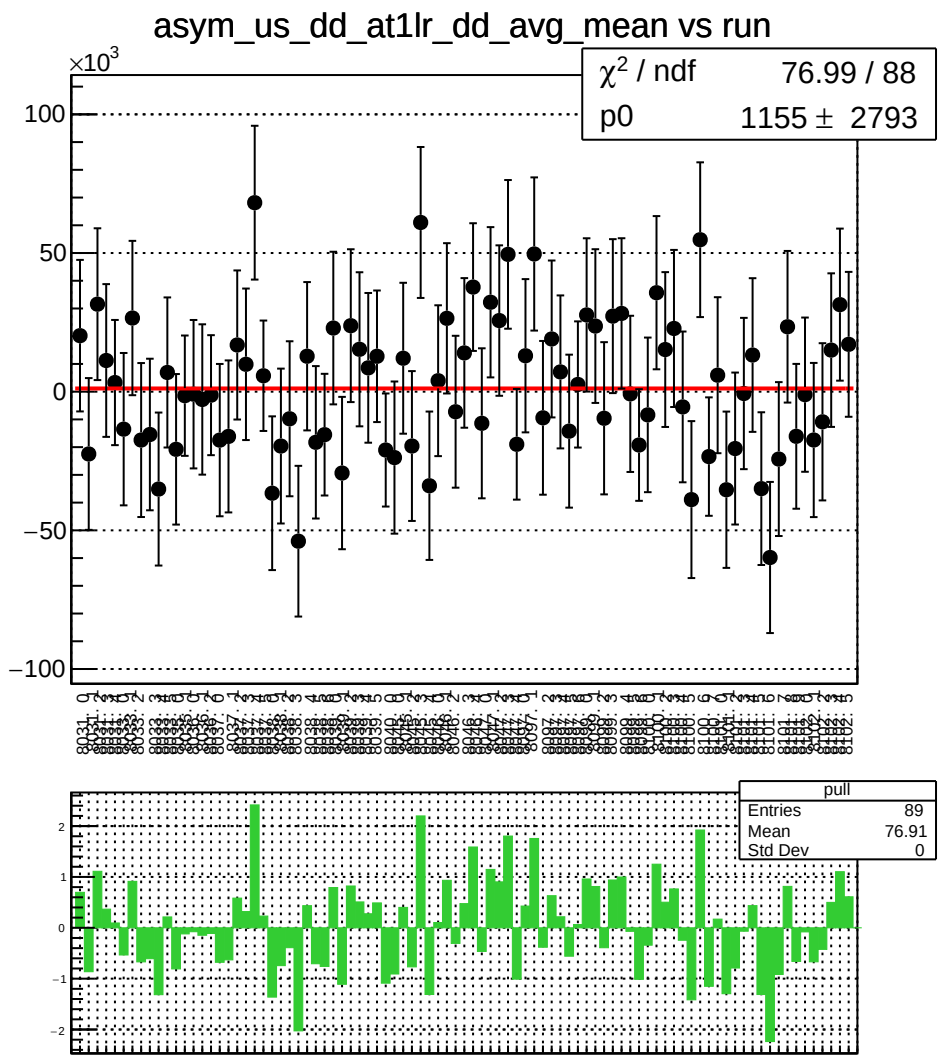

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 75.19 / 88
p0 358.8 ± 2323
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 167.1
Std Dev 0
3
2
1
0
−1
−2

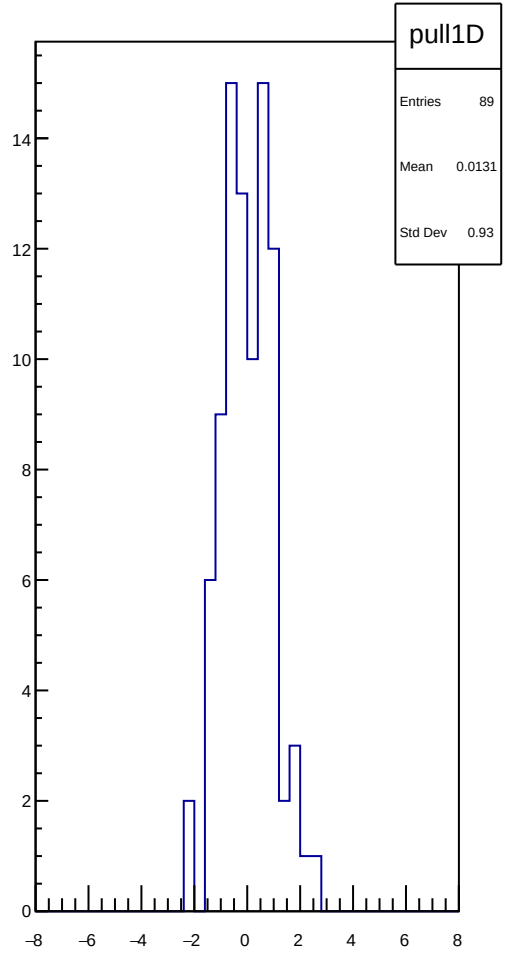

pull1D
Entries 89
Mean 0.01372
Std Dev 0.9191
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

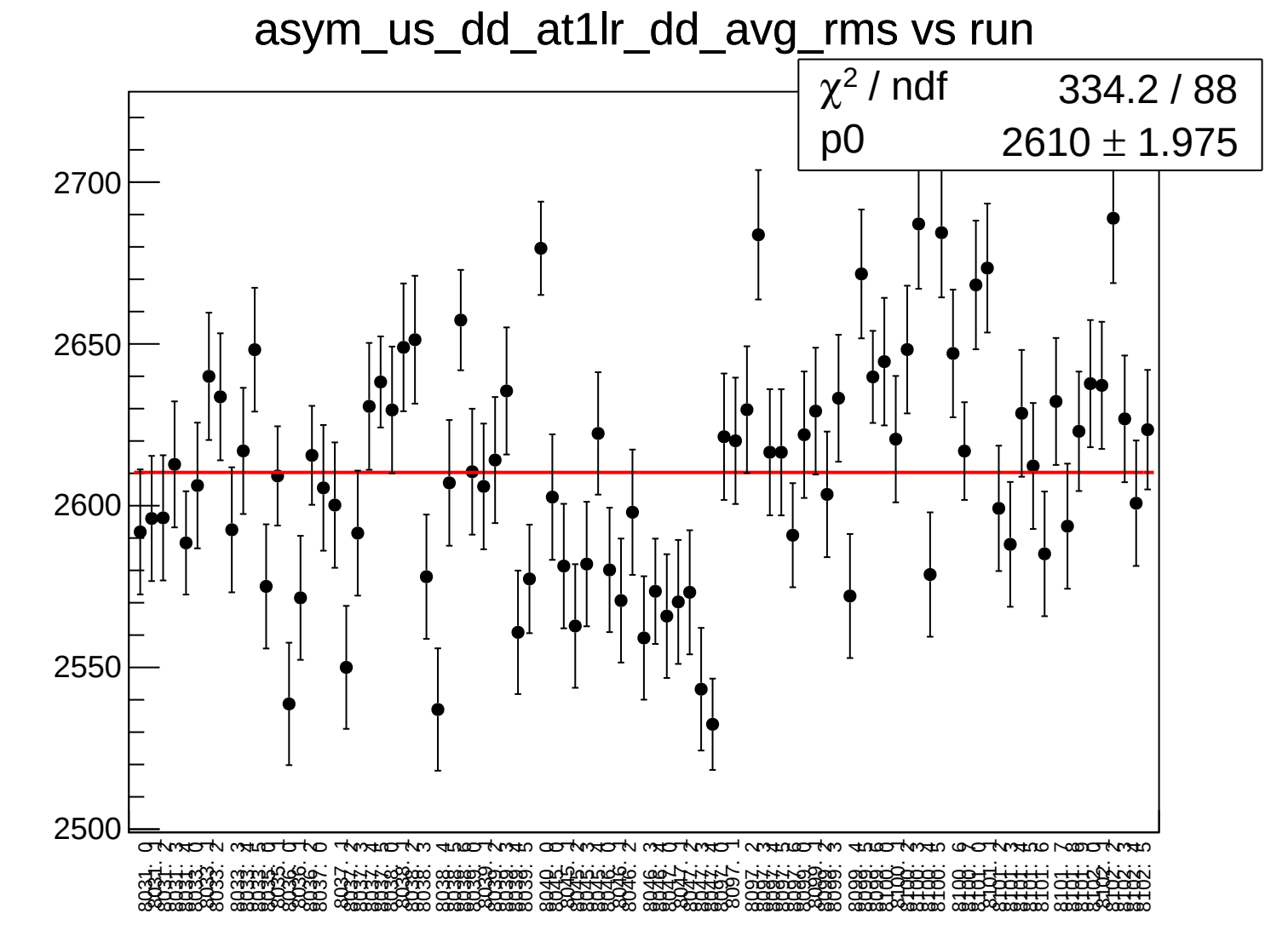

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 241.7 / 88
p0 2171 ± 1.643
2240
2220
2200
2180
2160
2140
2120
2100

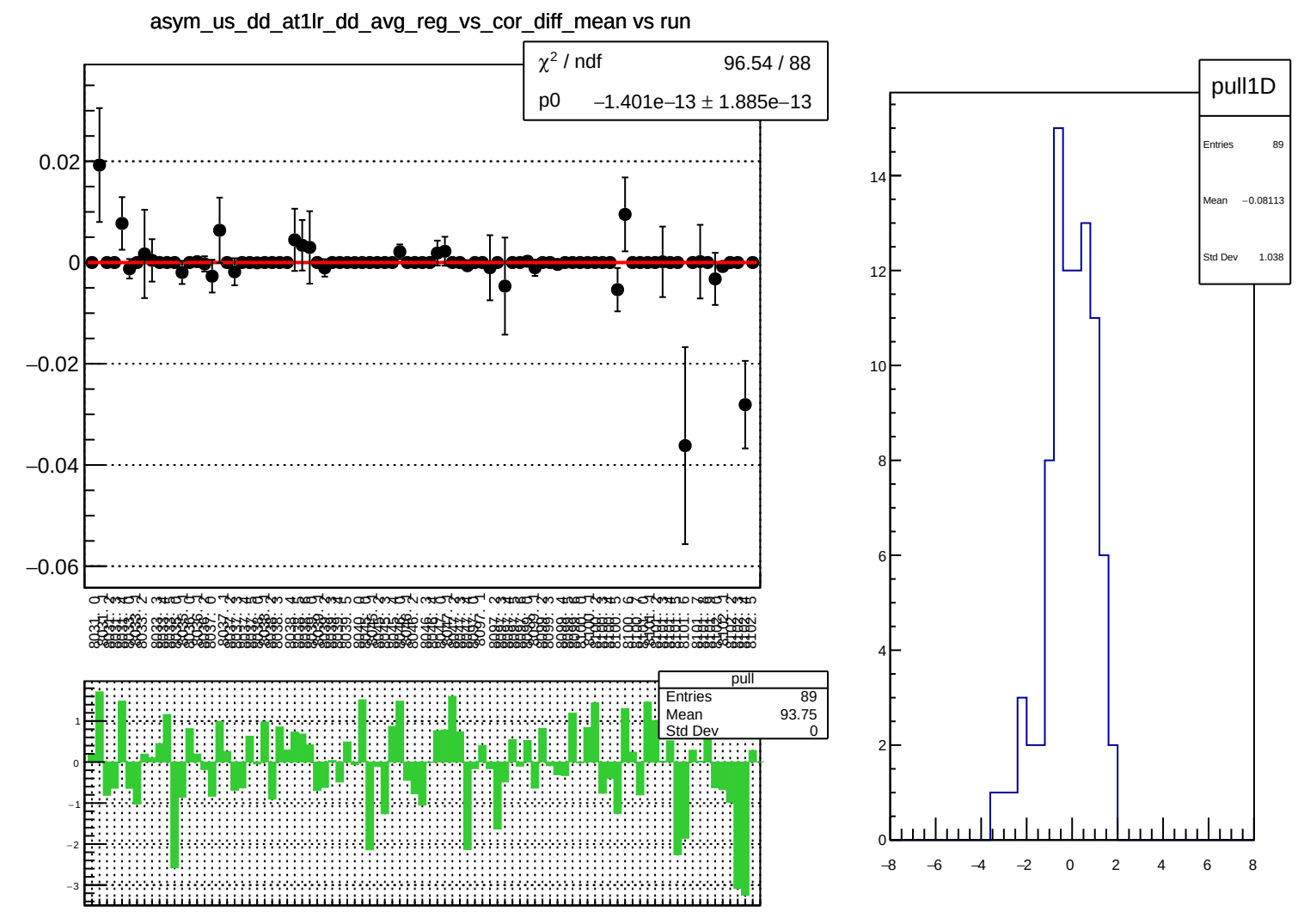

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 93.06 / 88
p0 −933 ± 1517
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 1072
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.00158
Std Dev 1.023
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

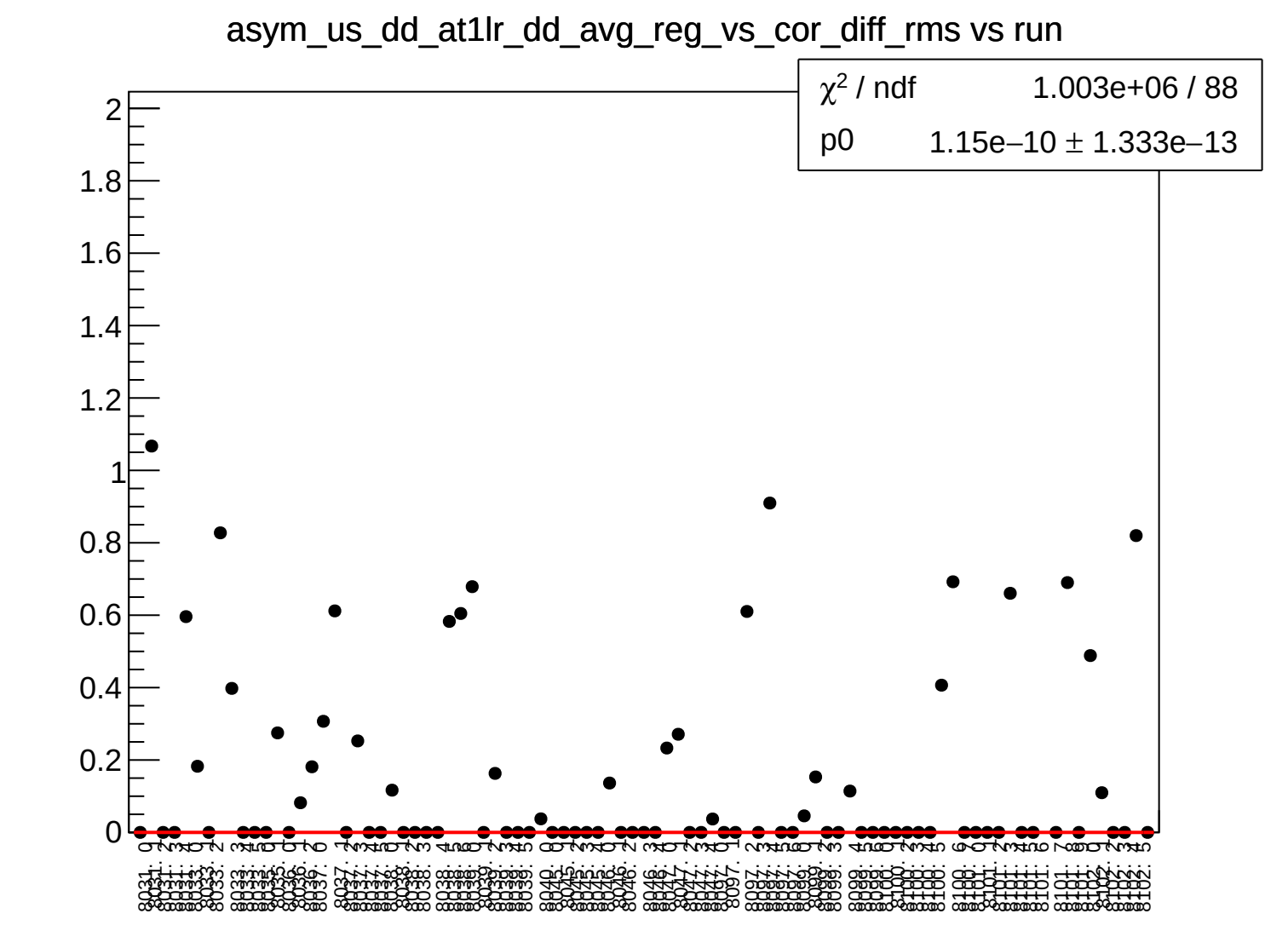

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.235e+04 / 88
p0 1413 ± 1.073
1700
1600
1500
1400
1300
1200

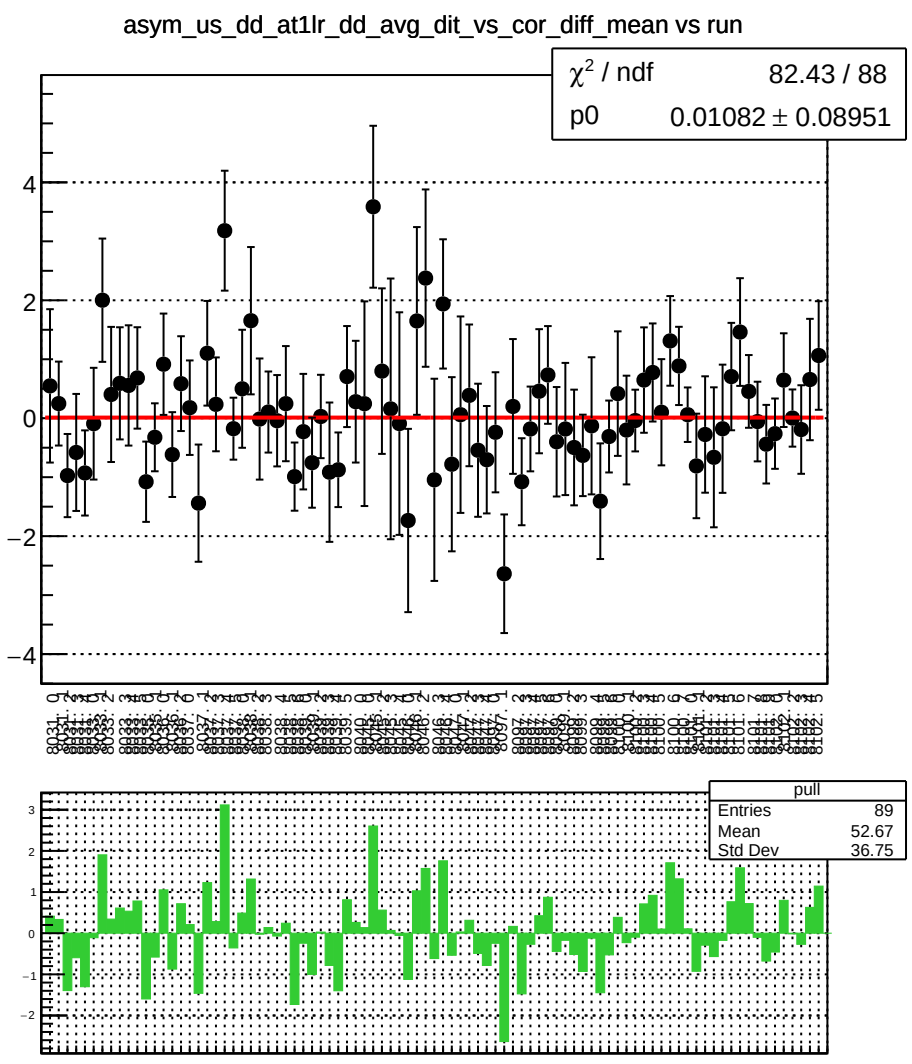

asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 76.99 / 88
p0 1155 ± 2793
100
50
0
−50
−100
pull
Entries 89
Mean 76.91
Std Dev 0
2
1
0
−1
−2

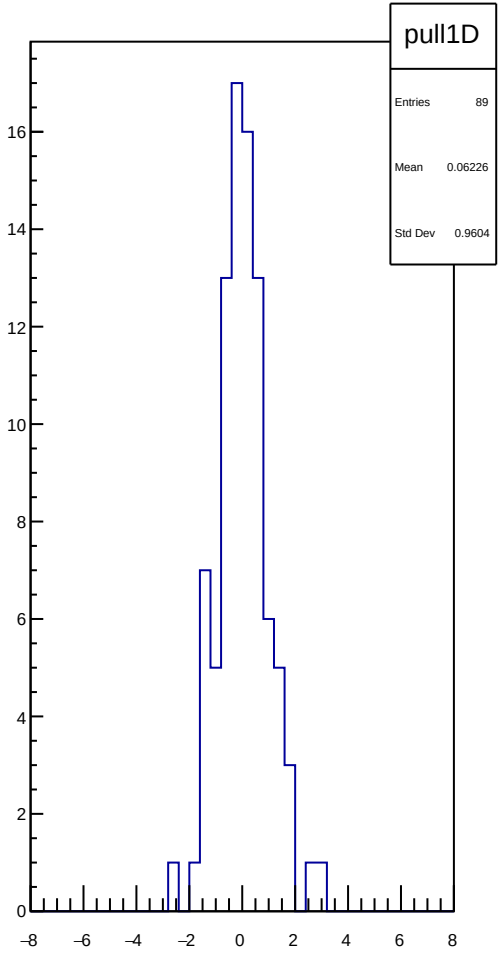

pull1D
Entries 89
Mean 0.0131
Std Dev 0.93
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

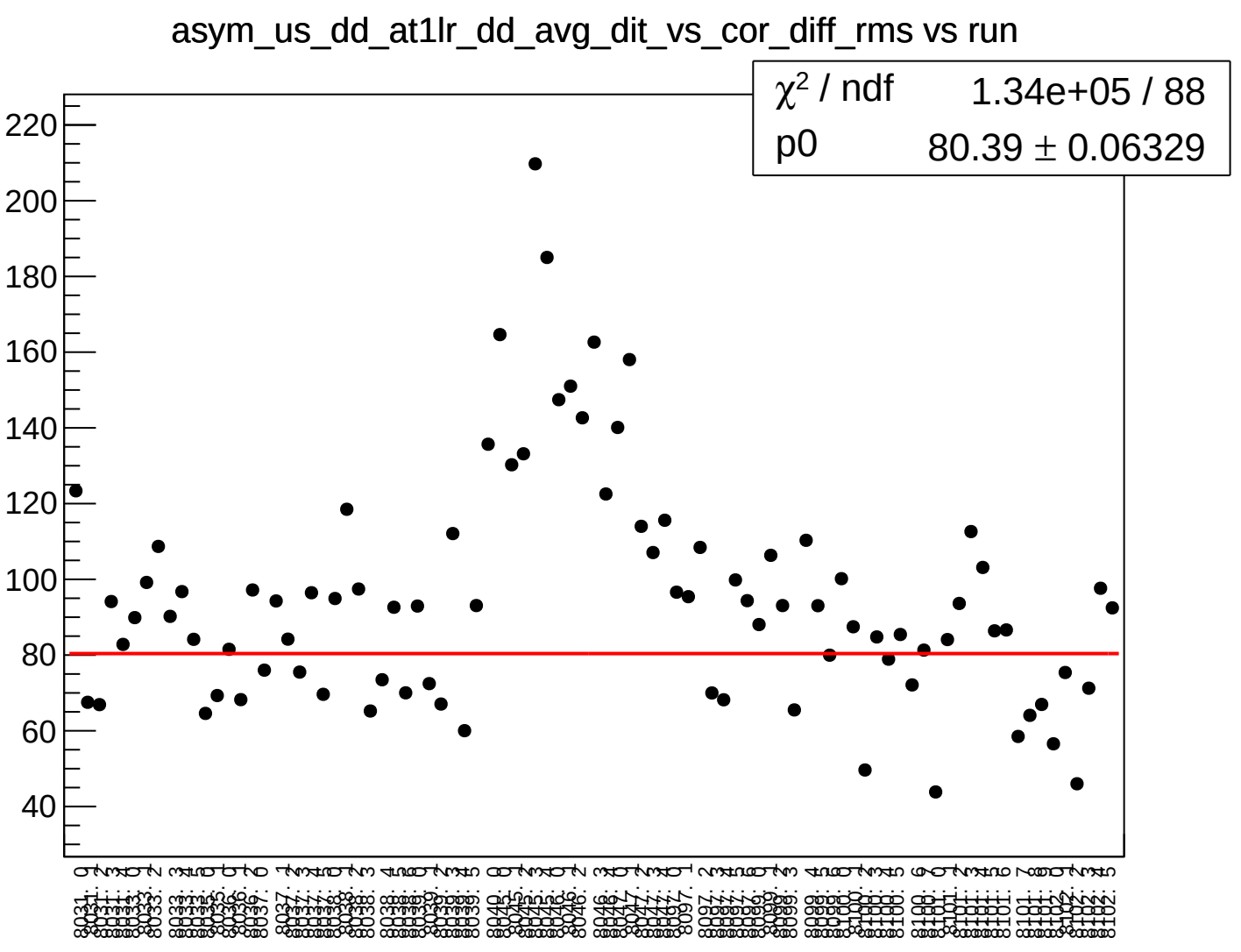

asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 334.2 / 88
p0 2610 ± 1.975
2700
2650
2600
2550
2500

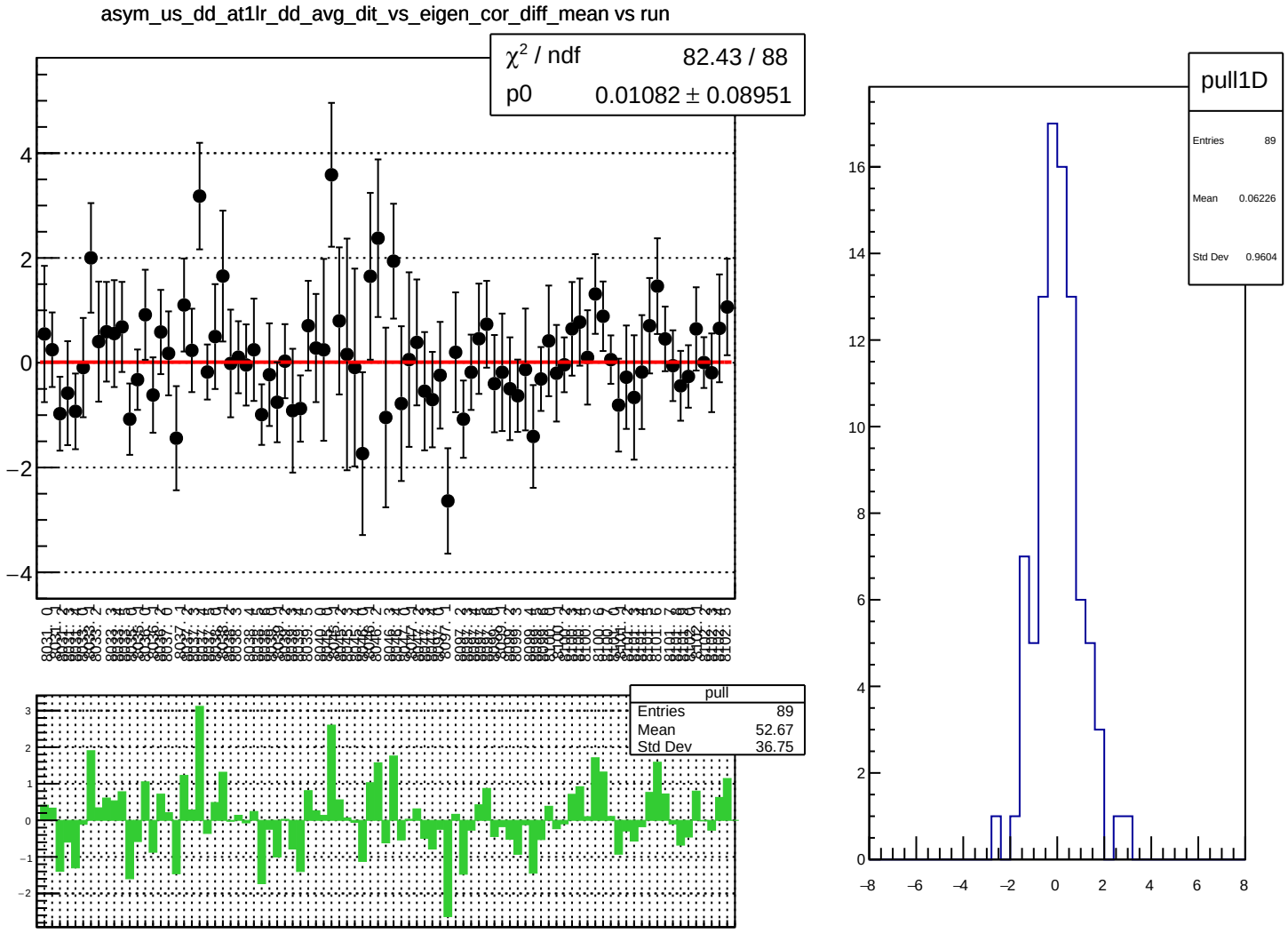

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 96.54 / 88
p0 −1.401e−13 ± 1.885e−13
0.02
0
−0.02
−0.04
−0.06
pull
Entries 89
Mean 93.75
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.08113
Std Dev 1.038
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

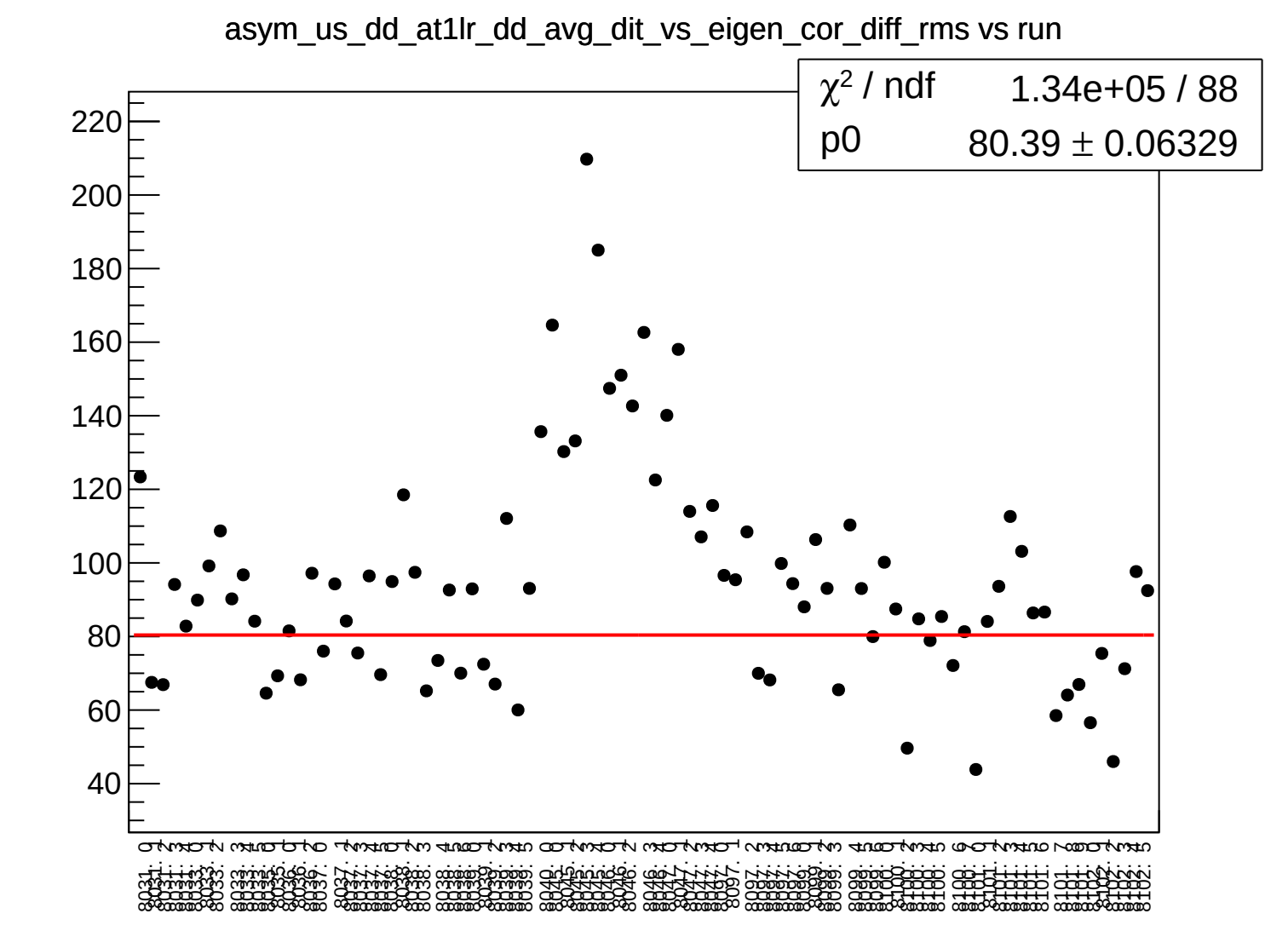

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.003e+06 / 88
p0 1.15e−10 ± 1.333e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

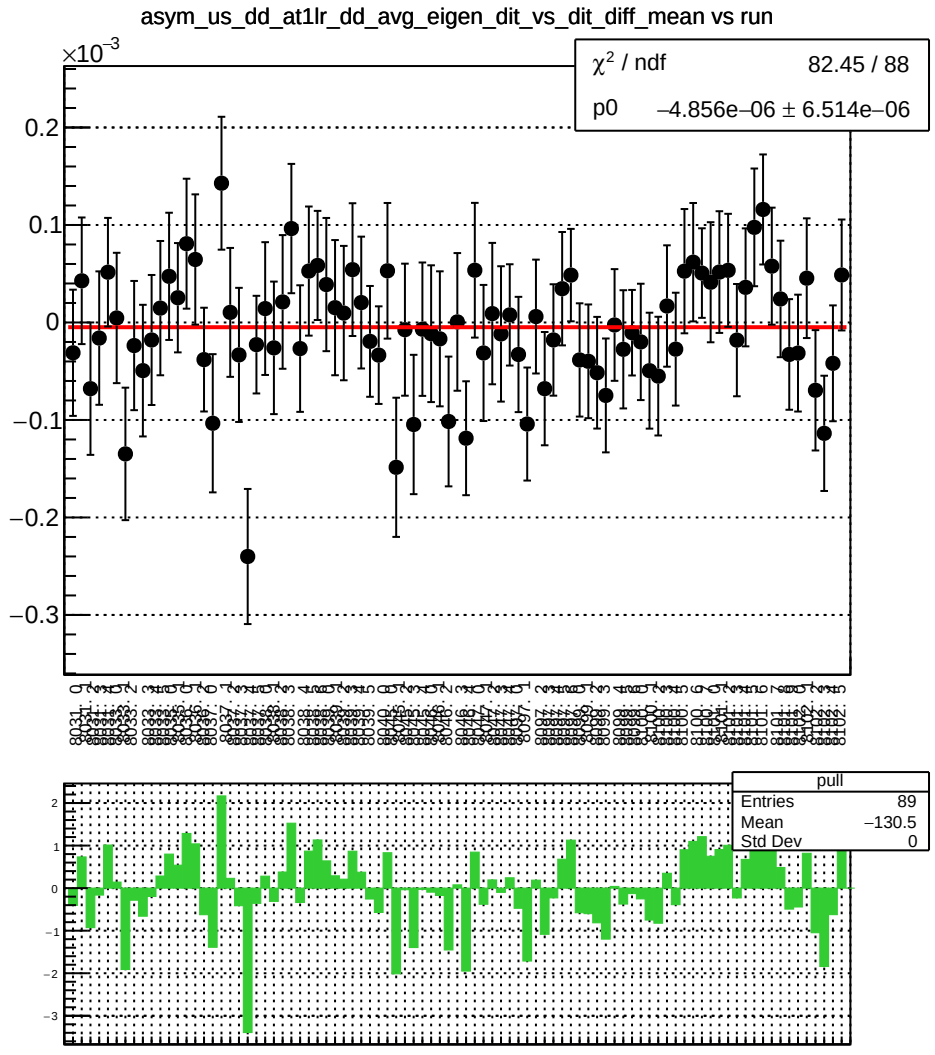

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 82.43 / 88
p0 0.01082 ± 0.08951
pull
Entries 89
Mean 52.67
Std Dev 36.75

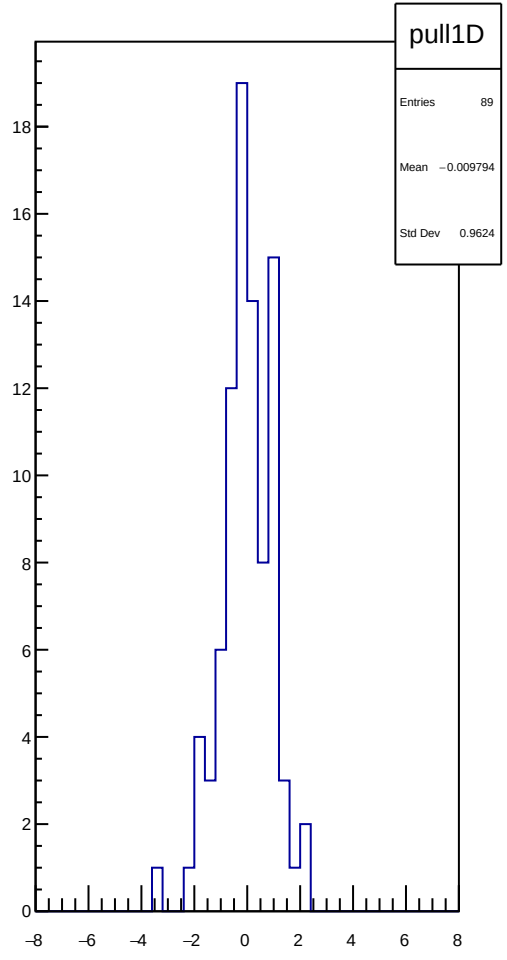

pull1D
Entries 89
Mean 0.06226
Std Dev 0.9604

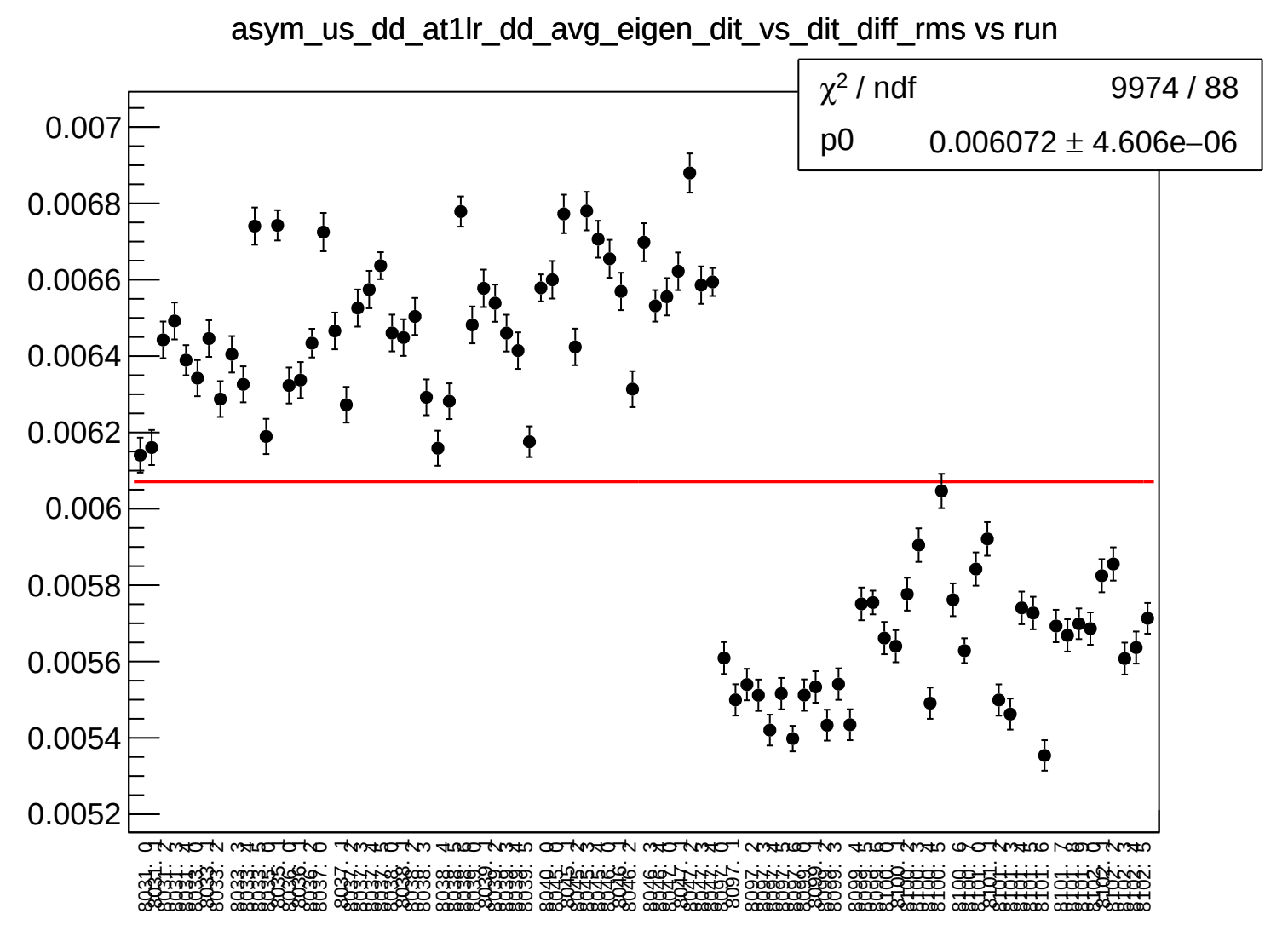

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.34e+05 / 88
p0 80.39 ± 0.06329
220
200
180
160
140
120
100
80
60
40

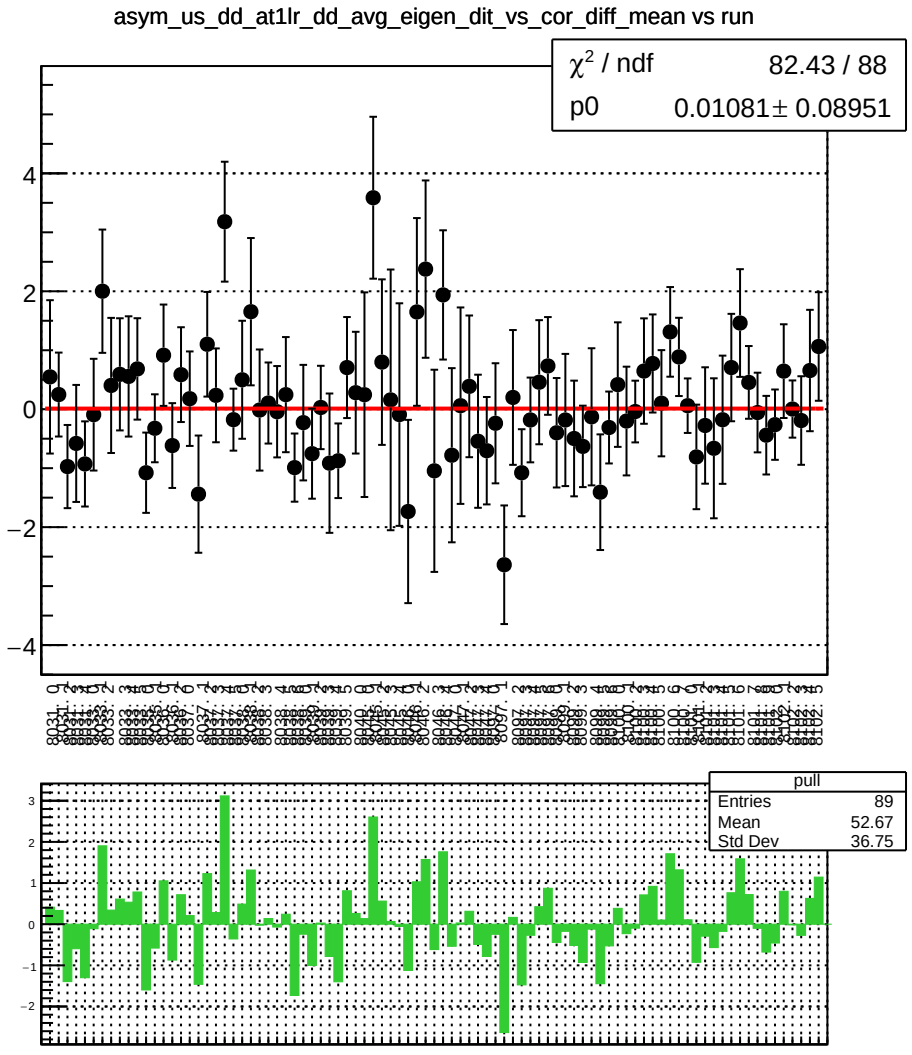

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.43 / 88
p0 0.01082 ± 0.08951
pull
Entries 89
Mean 52.67
Std Dev 36.75
pull1D
Entries 89
Mean 0.06226
Std Dev 0.9604

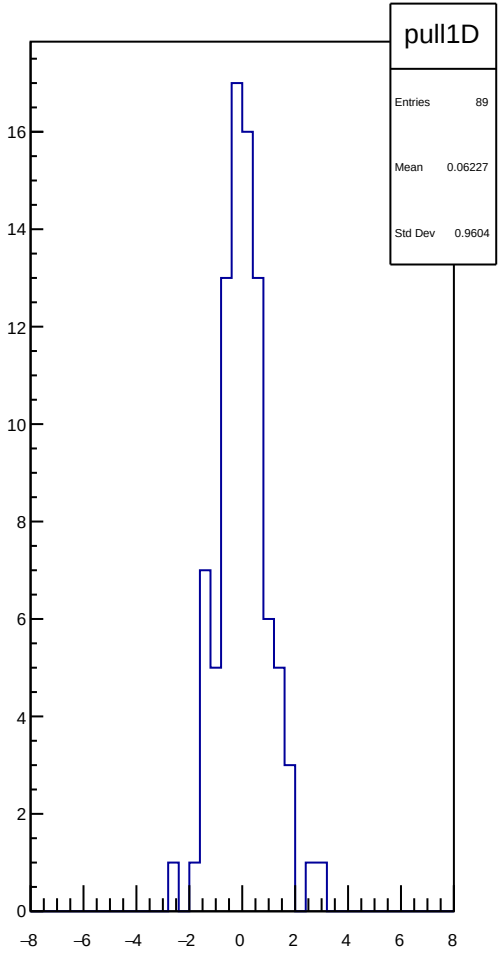

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.34e+05 / 88
p0 80.39 ± 0.06329
220
200
180
160
140
120
100
80
60
40

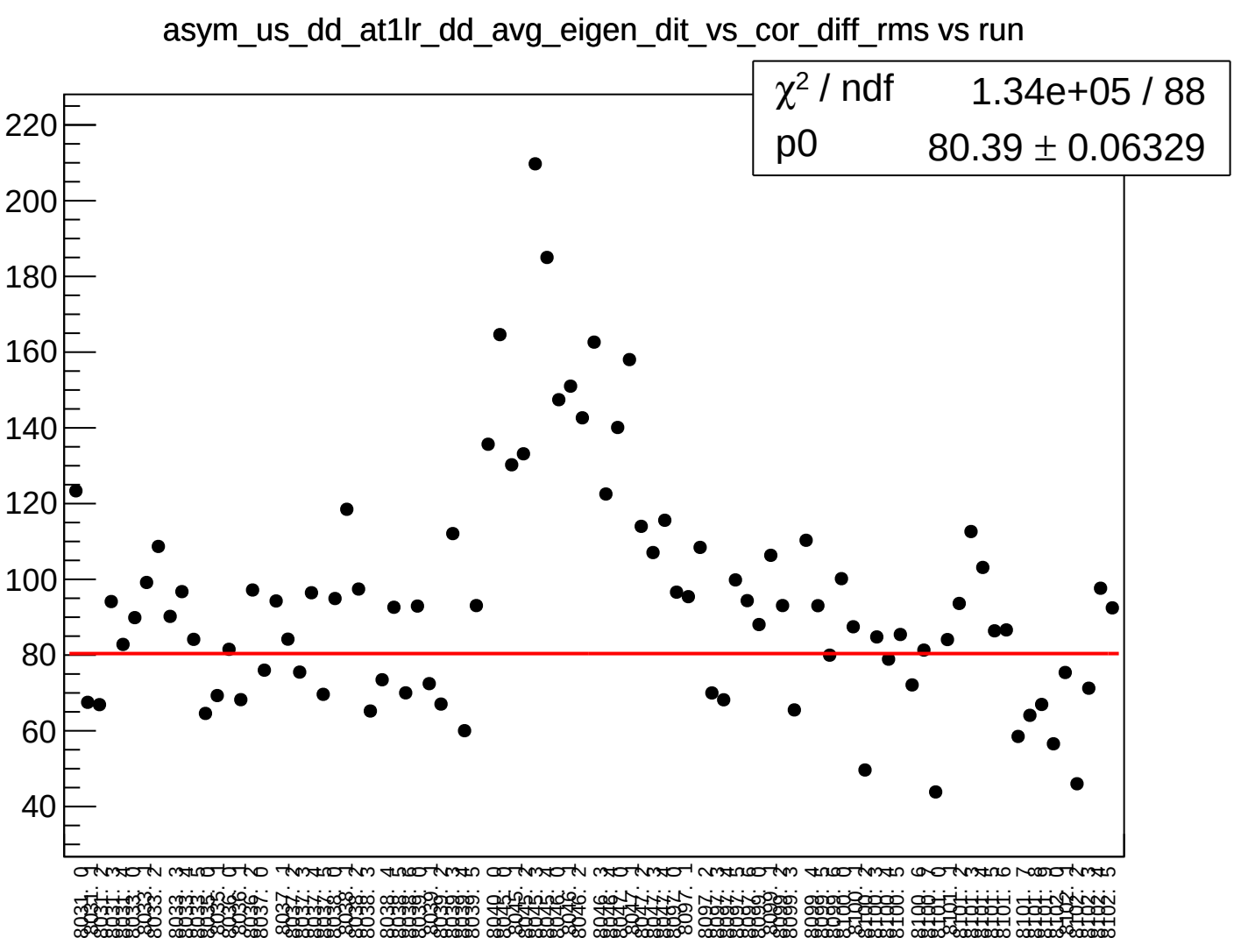

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.45 / 88
p0 −4.856e−06 ± 6.514e−06
pull
Entries 89
Mean −130.5
Std Dev 0

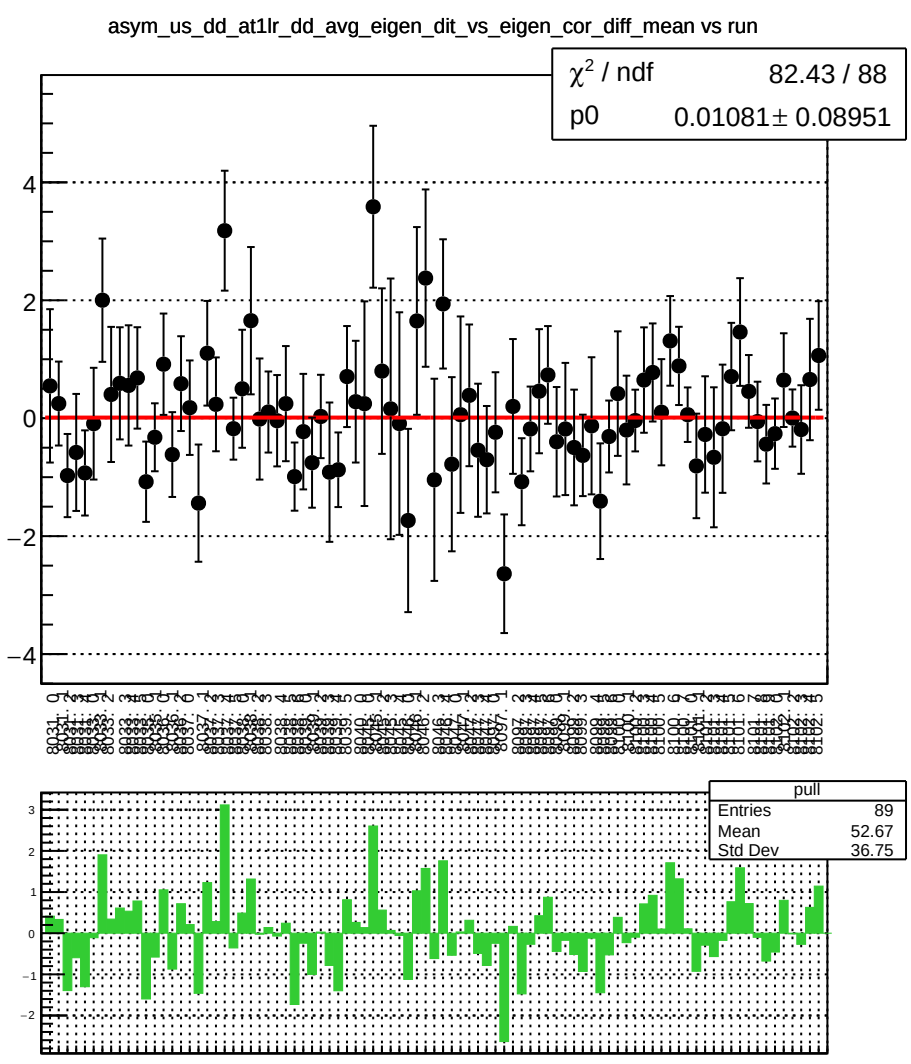

pull1D
Entries 89
Mean −0.009794
Std Dev 0.9624

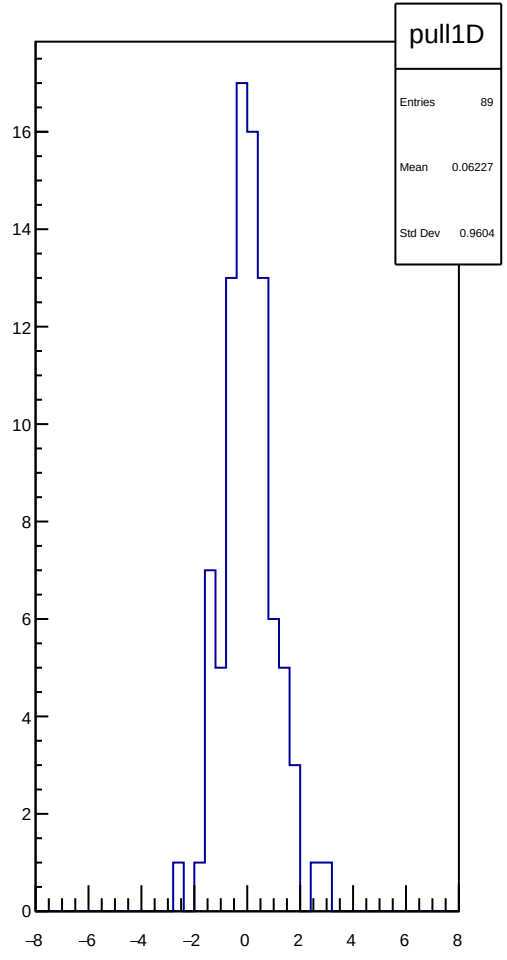

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9974 / 88
p0 0.006072 ± 4.606e−06
0.007
0.0068
0.0066
0.0064
0.0062
0.006
0.0058
0.0056
0.0054
0.0052

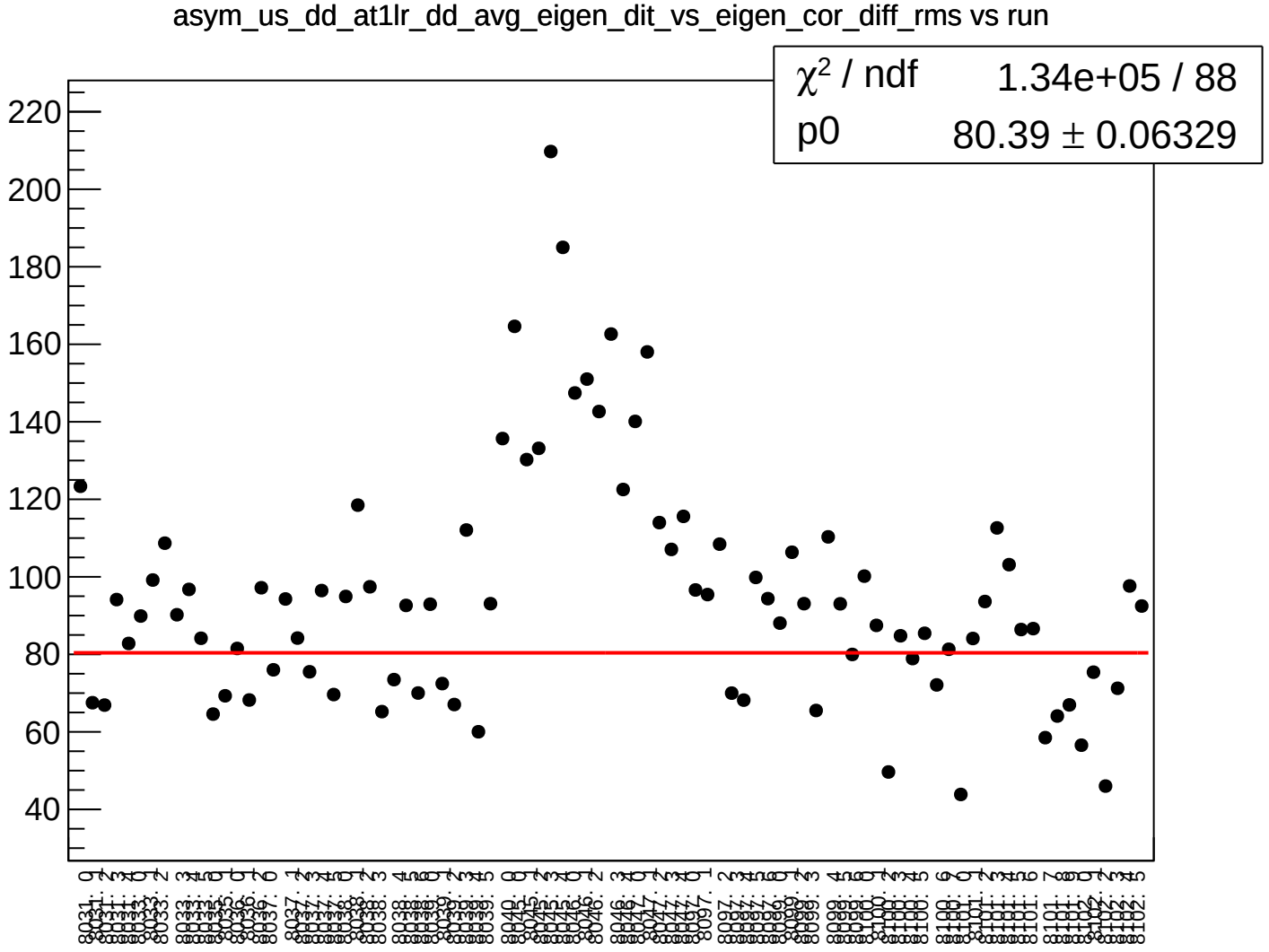

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.43 / 88
p0 0.01081 ± 0.08951
pull
Entries 89
Mean 52.67
Std Dev 36.75

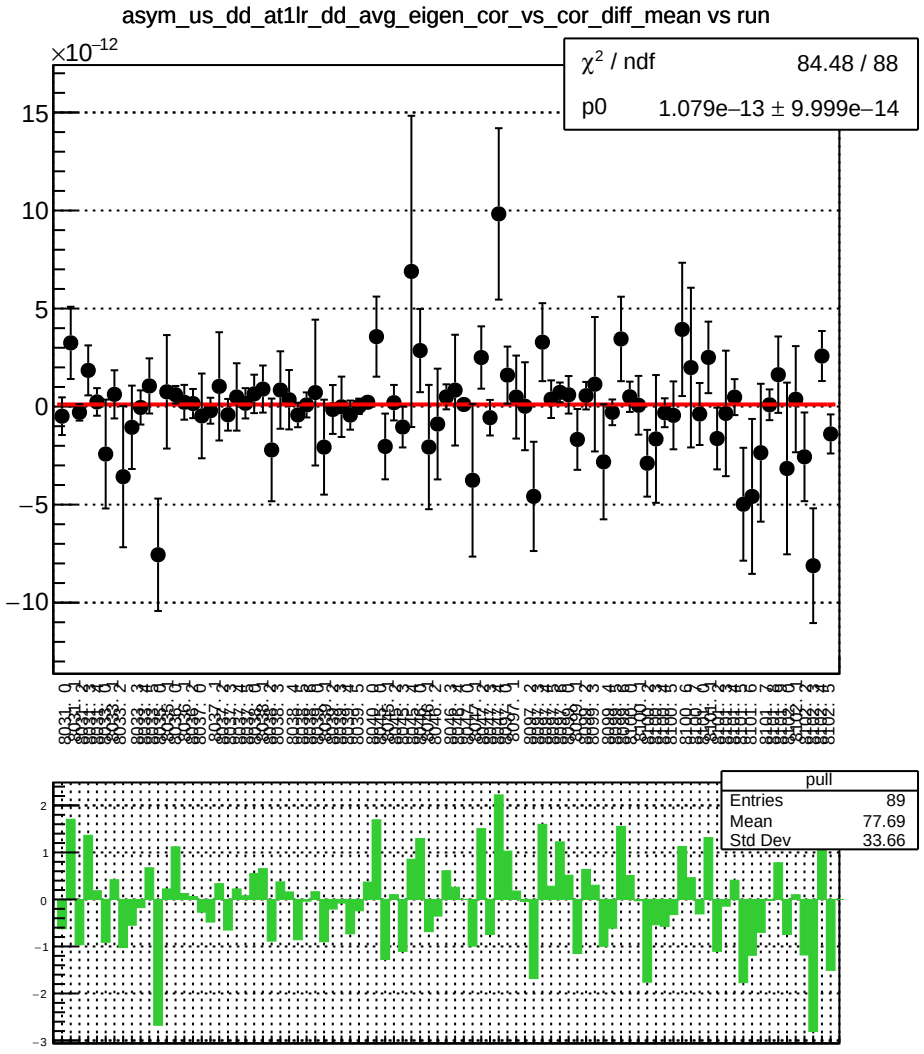

pull1D
Entries 89
Mean 0.06227
Std Dev 0.9604

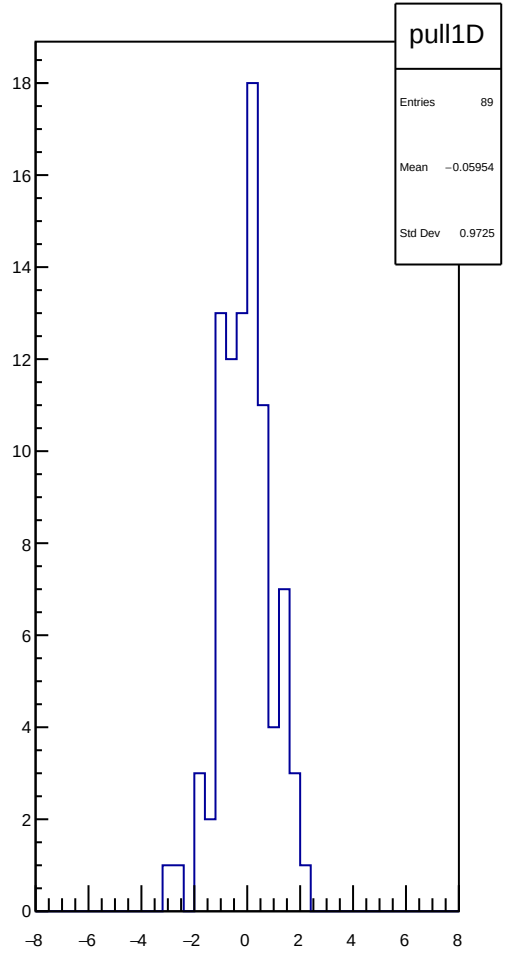

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.34e+05 / 88
p0 80.39 ± 0.06329
220
200
180
160
140
120
100
80
60
40

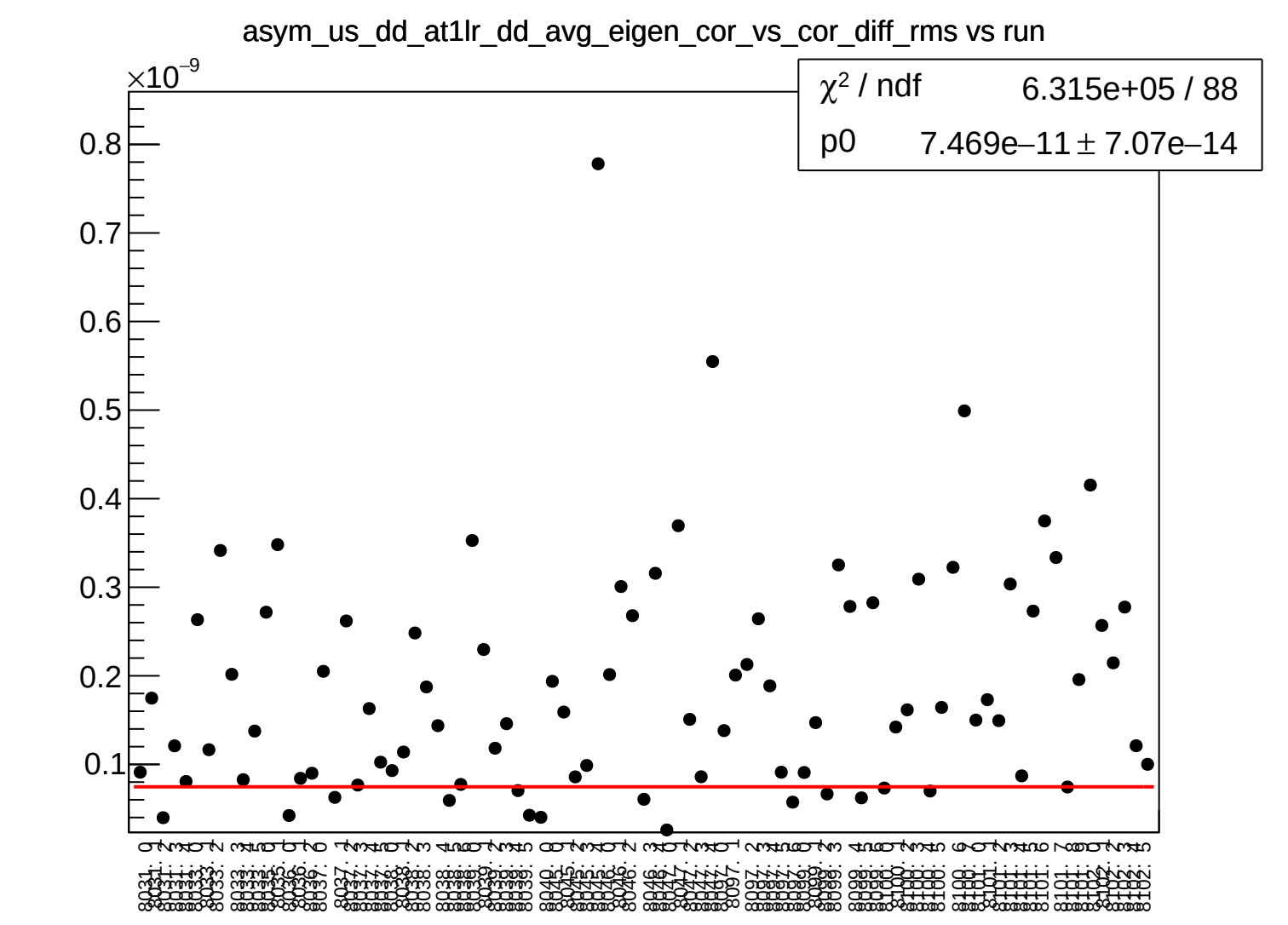

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.43 / 88
p0 0.01081 ± 0.08951
pull
Entries 89
Mean 52.67
Std Dev 36.75

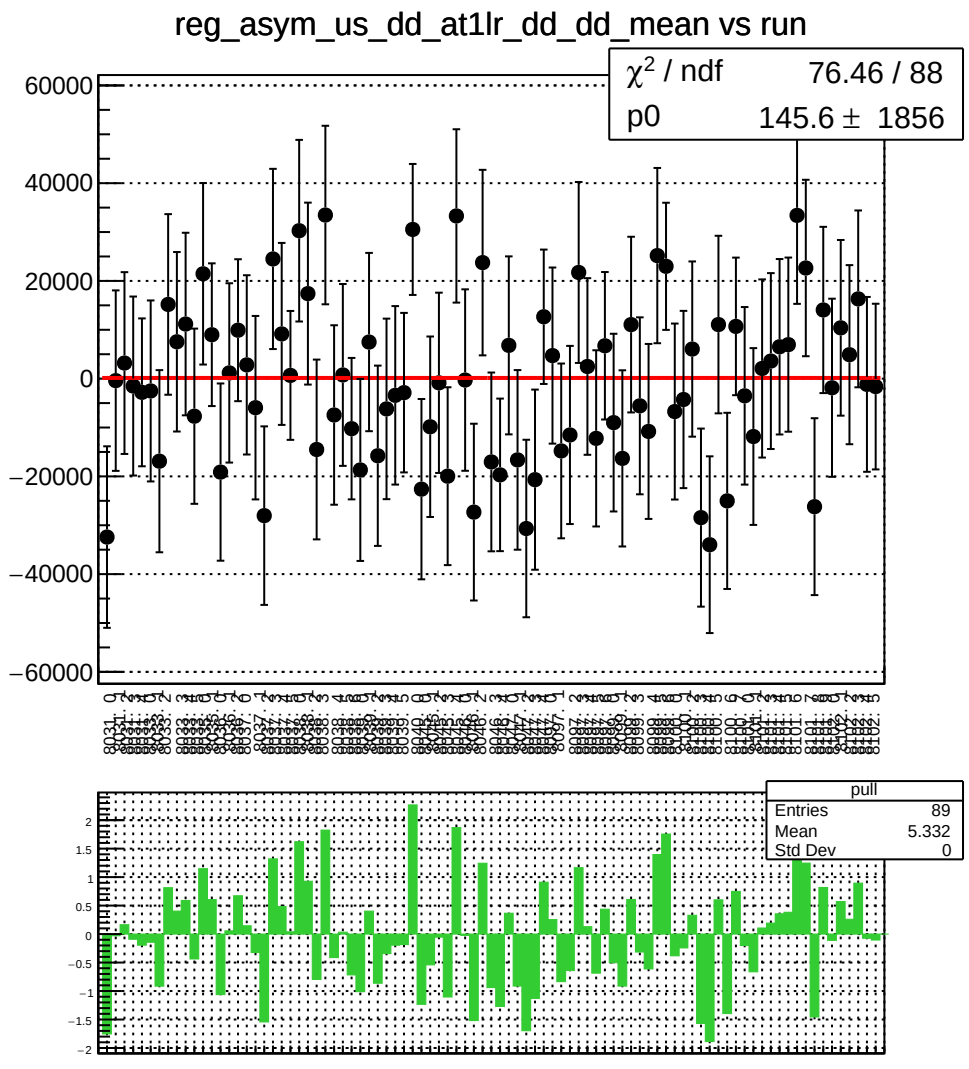

pull1D
Entries 89
Mean 0.06227
Std Dev 0.9604

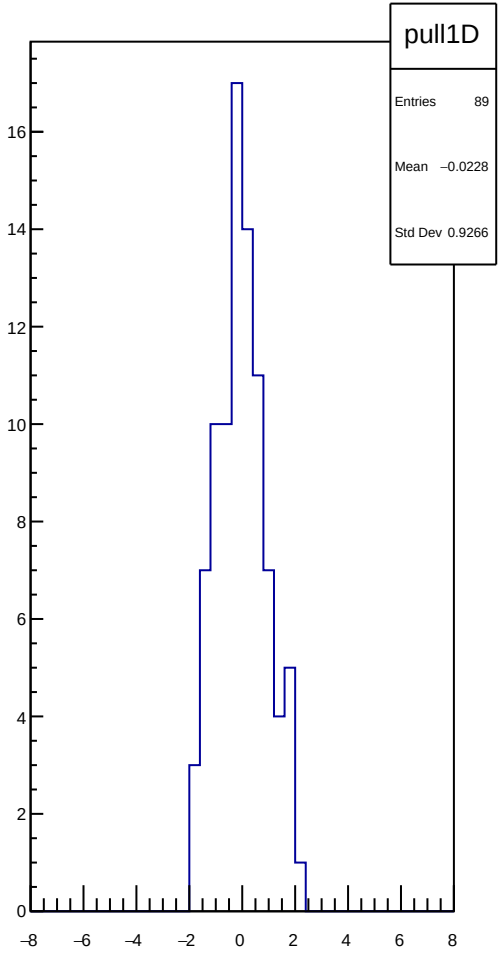

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.34e+05 / 88
p0 80.39 ± 0.06329
220
200
180
160
140
120
100
80
60
40

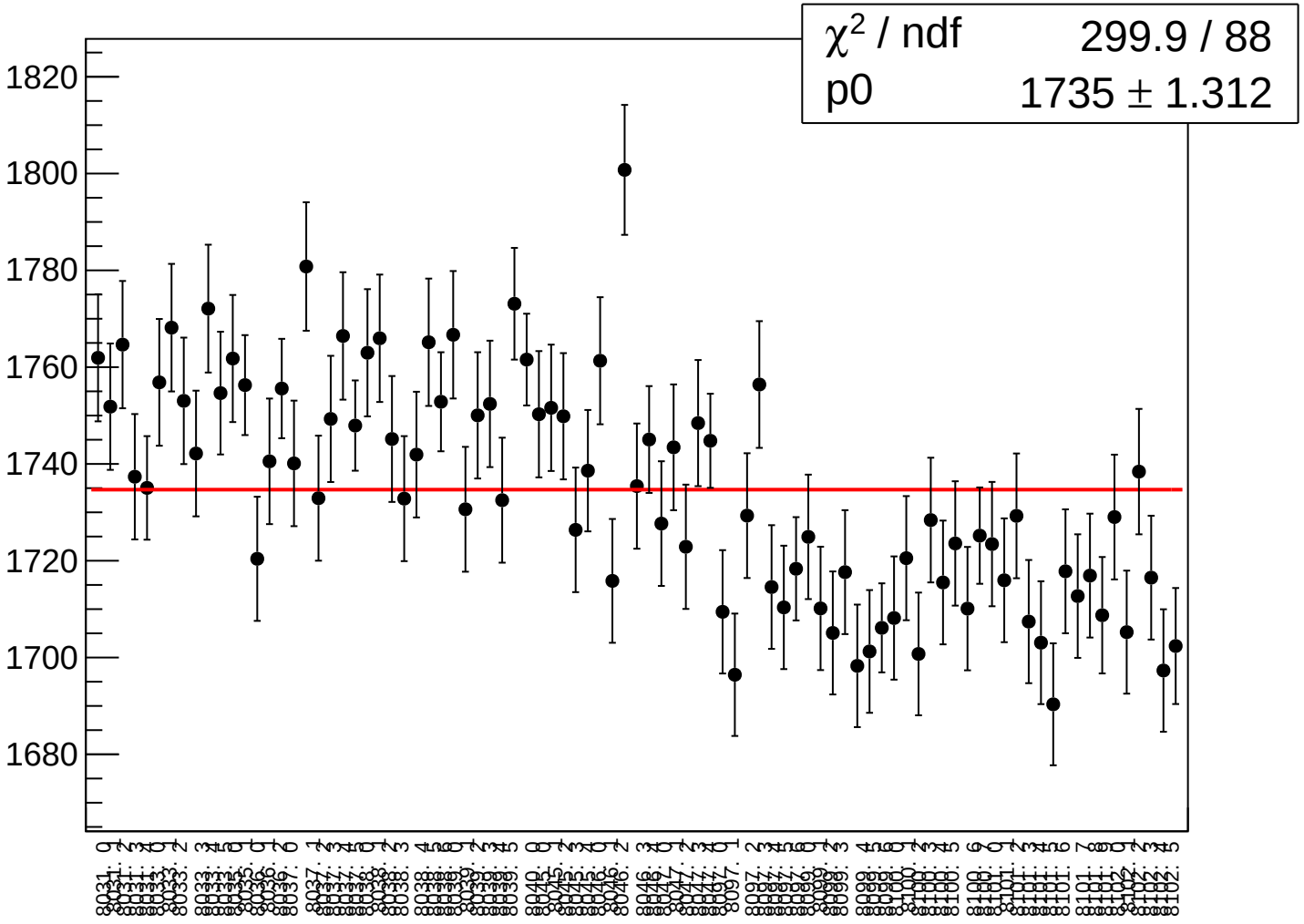

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.48 / 88
p0 1.079e−13 ± 9.999e−14
15
10
5
0
−5
−10
pull
Entries 89
Mean 77.69
Std Dev 33.66
2
1
0
−1
−2
−3

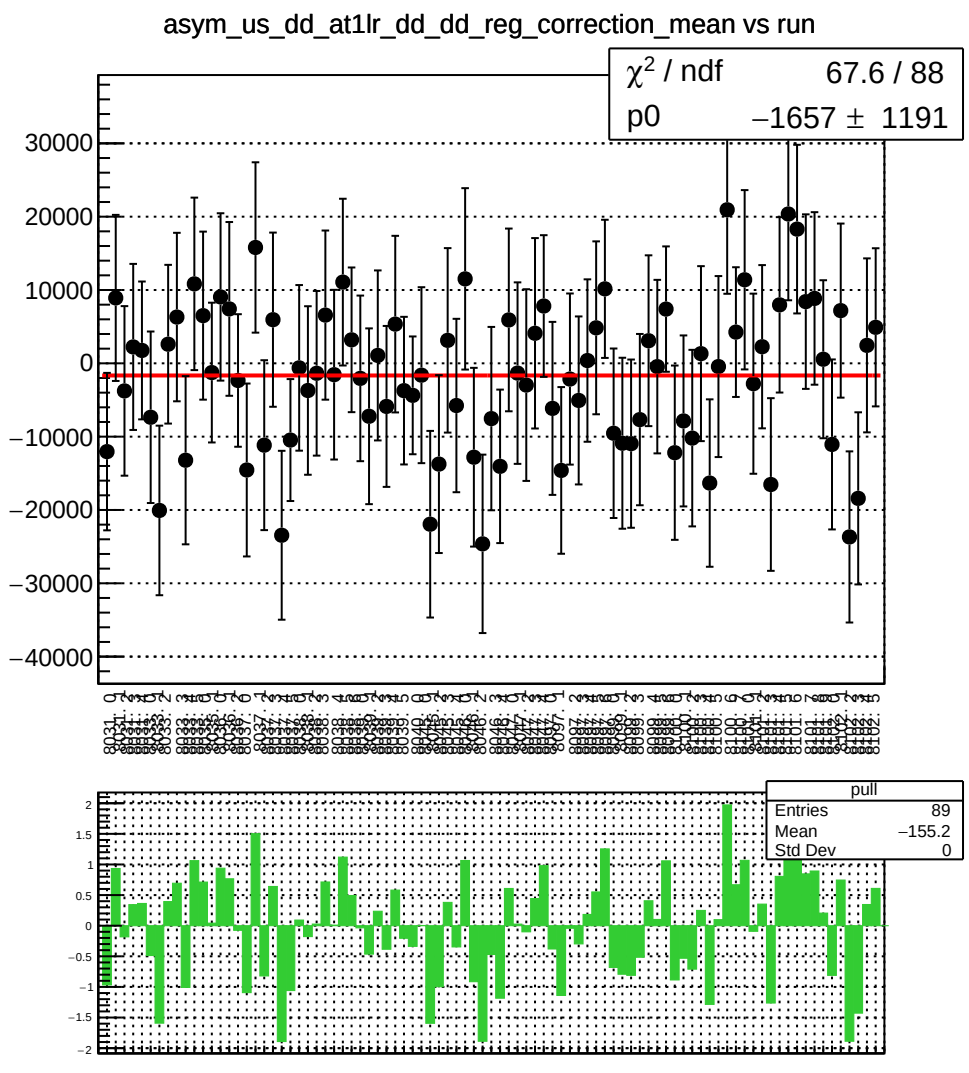

pull1D
Entries 89
Mean −0.05954
Std Dev 0.9725
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

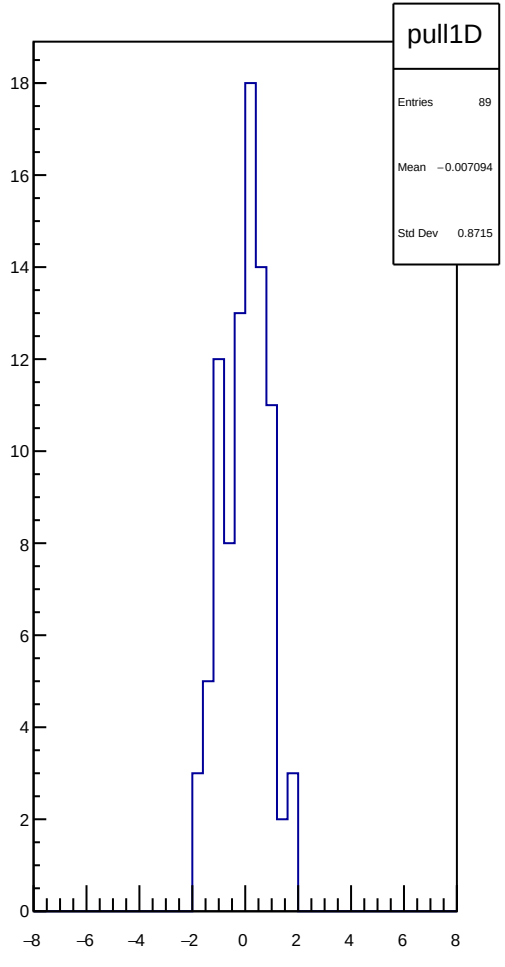

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.315e+05 / 88
p0 7.469e−11 ± 7.07e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

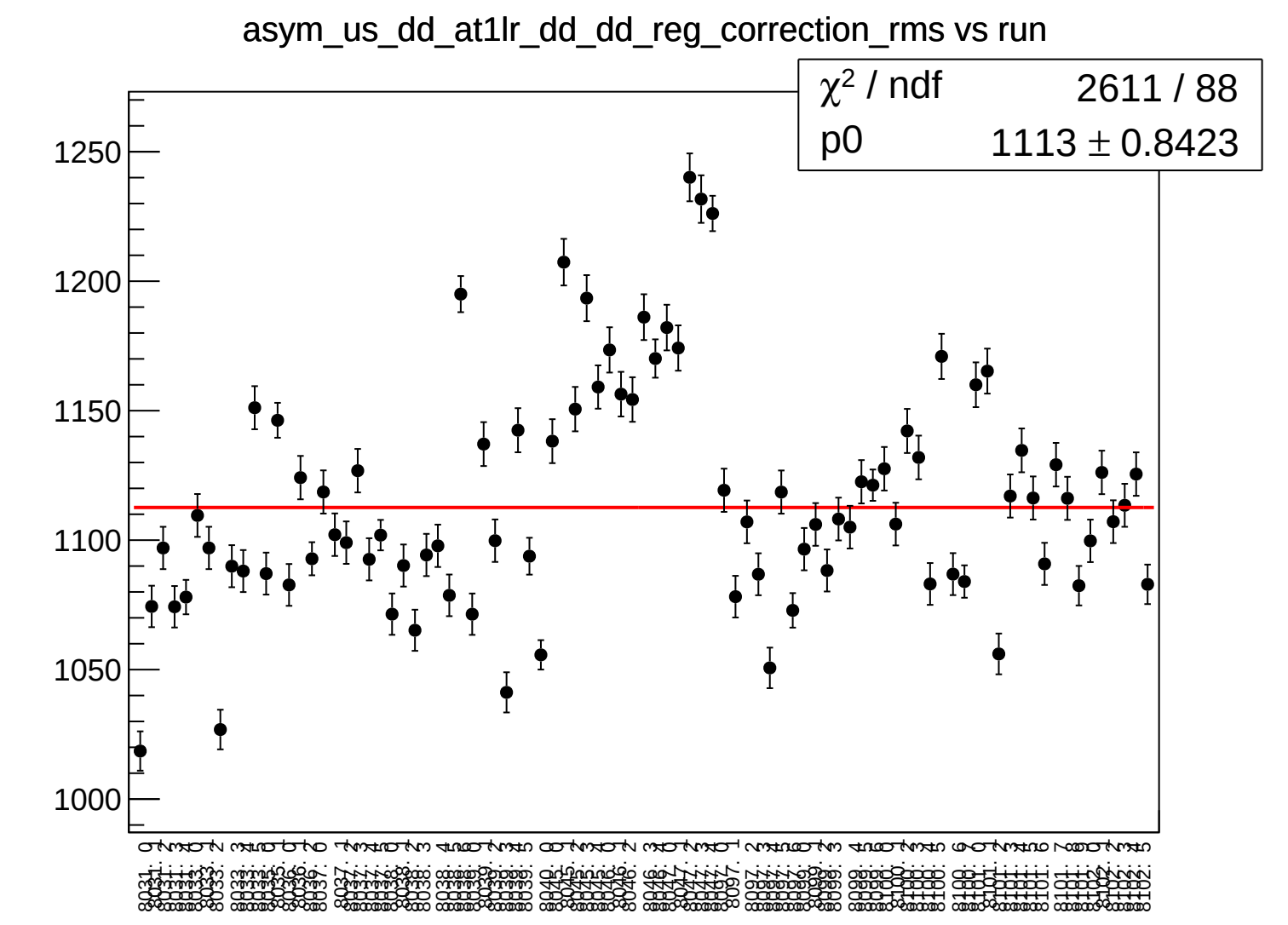

reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 76.46 / 88
p0 145.6 ± 1856
pull
Entries 89
Mean 5.332
Std Dev 0

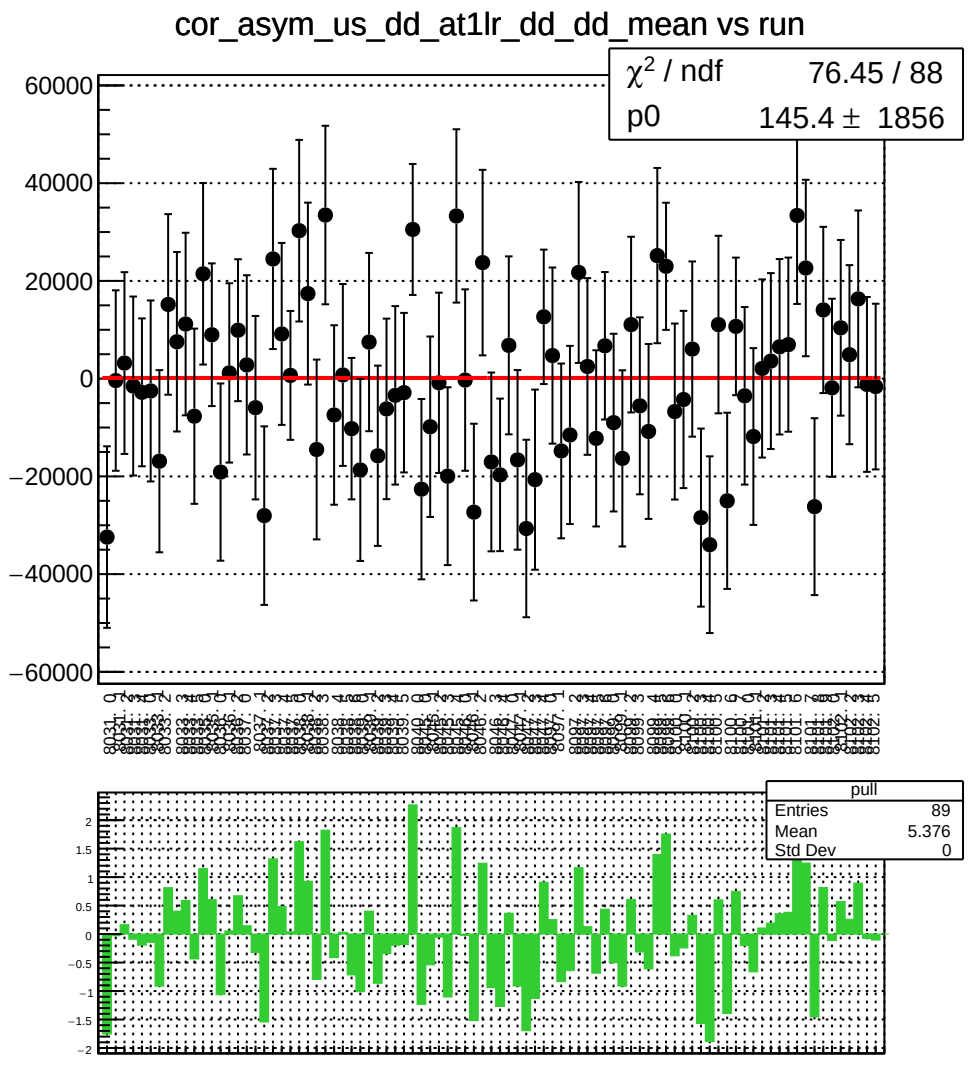

pull1D
Entries 89
Mean −0.0228
Std Dev 0.9266

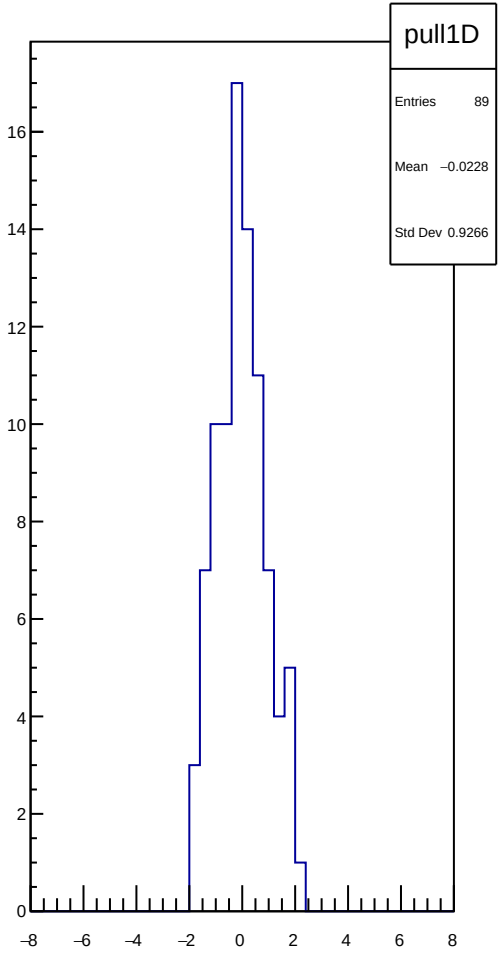

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 299.9 / 88
p0 1735 ± 1.312
1820
1800
1780
1760
1740
1720
1700
1680

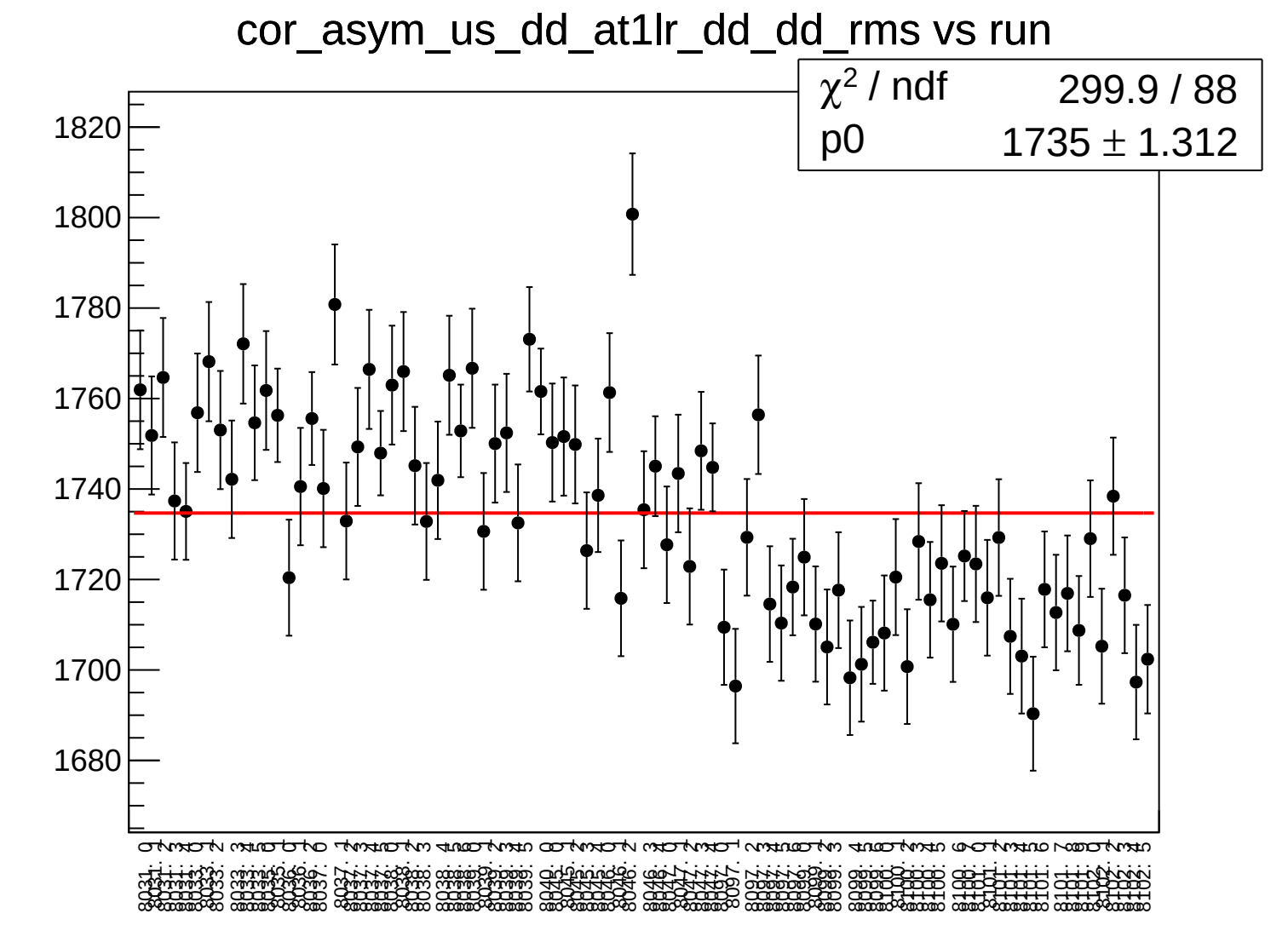

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
χ² / ndf 67.6 / 88
p0 −1657 ± 1191
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean −155.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

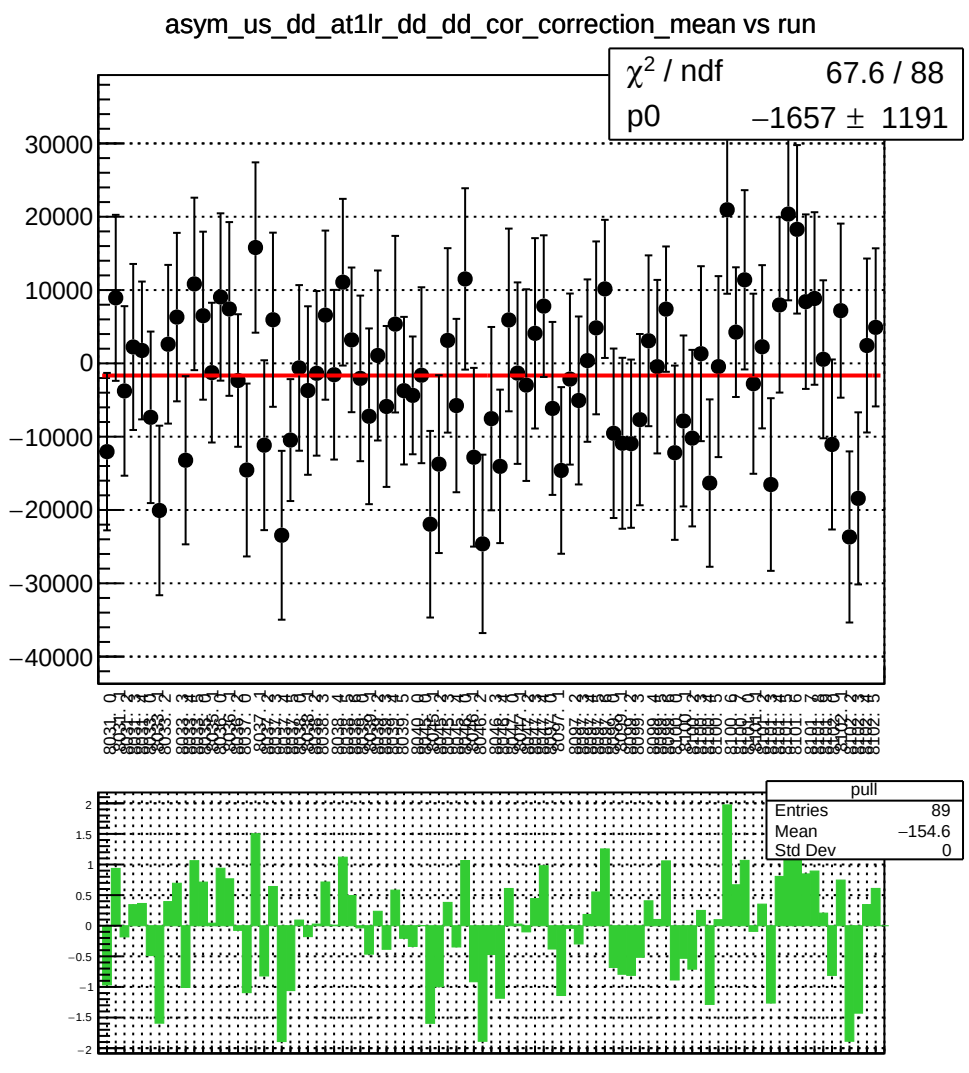

pull1D
Entries 89
Mean −0.007094
Std Dev 0.8715
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

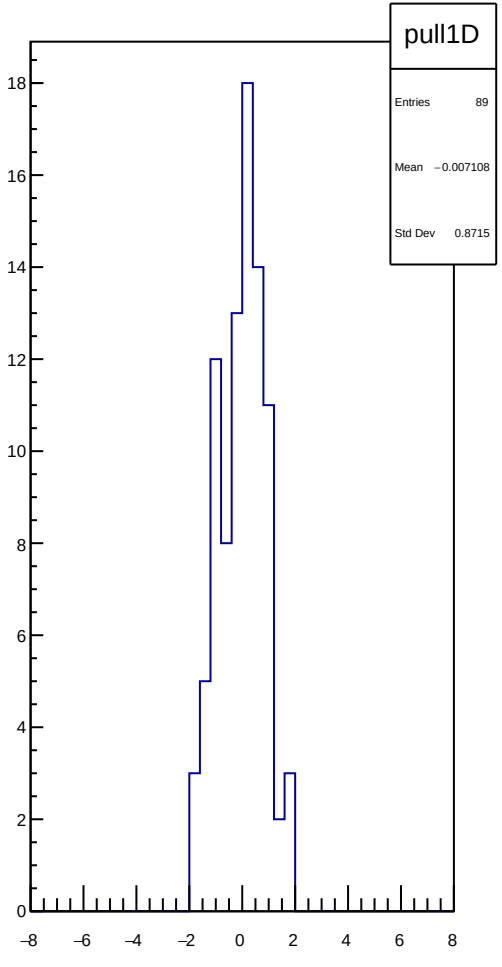

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 2611 / 88
p0 1113 ± 0.8423
1250
1200
1150
1100
1050
1000

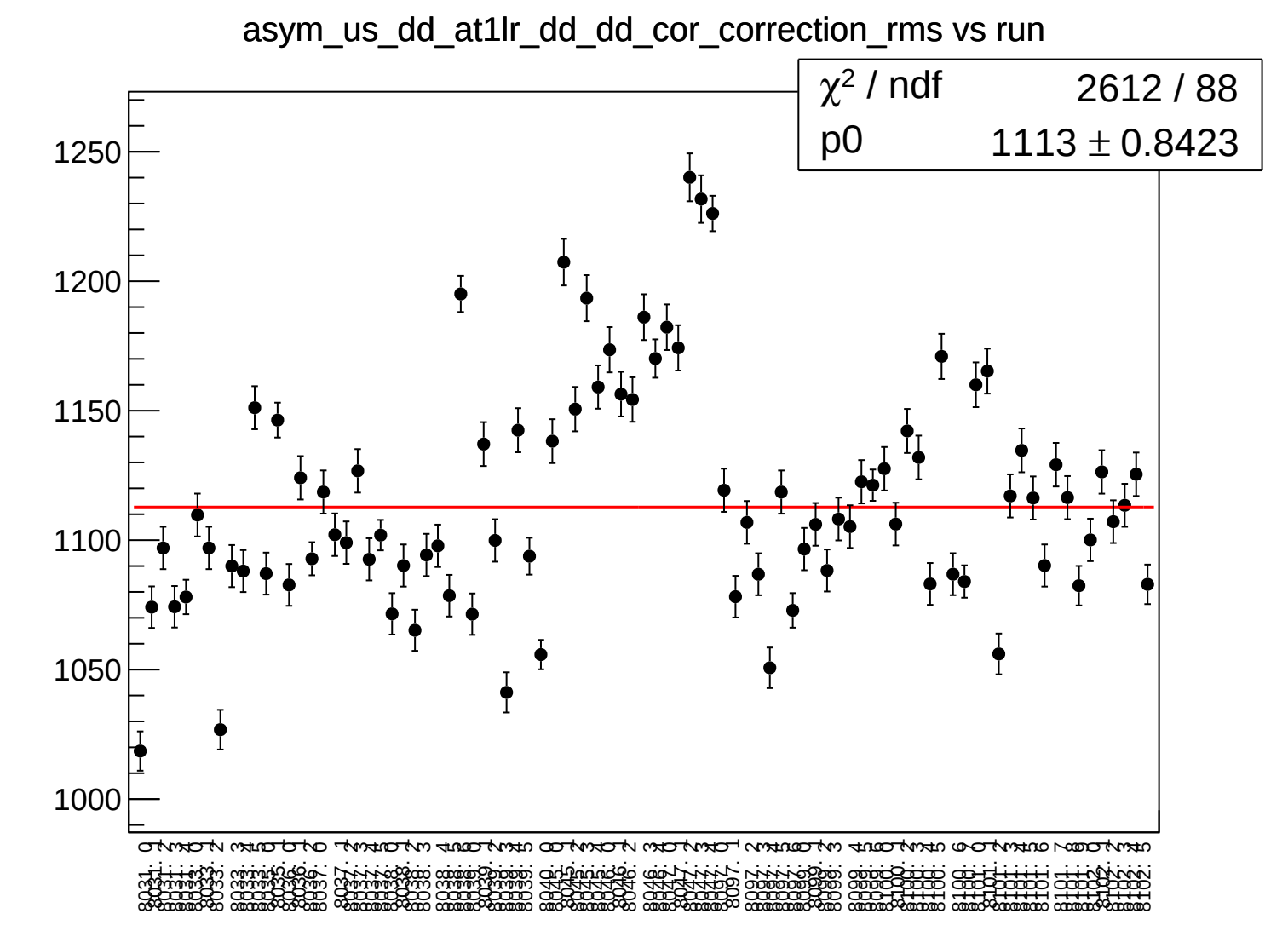

cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 76.45 / 88
p0 145.4 ± 1856
pull
Entries 89
Mean 5.376
Std Dev 0

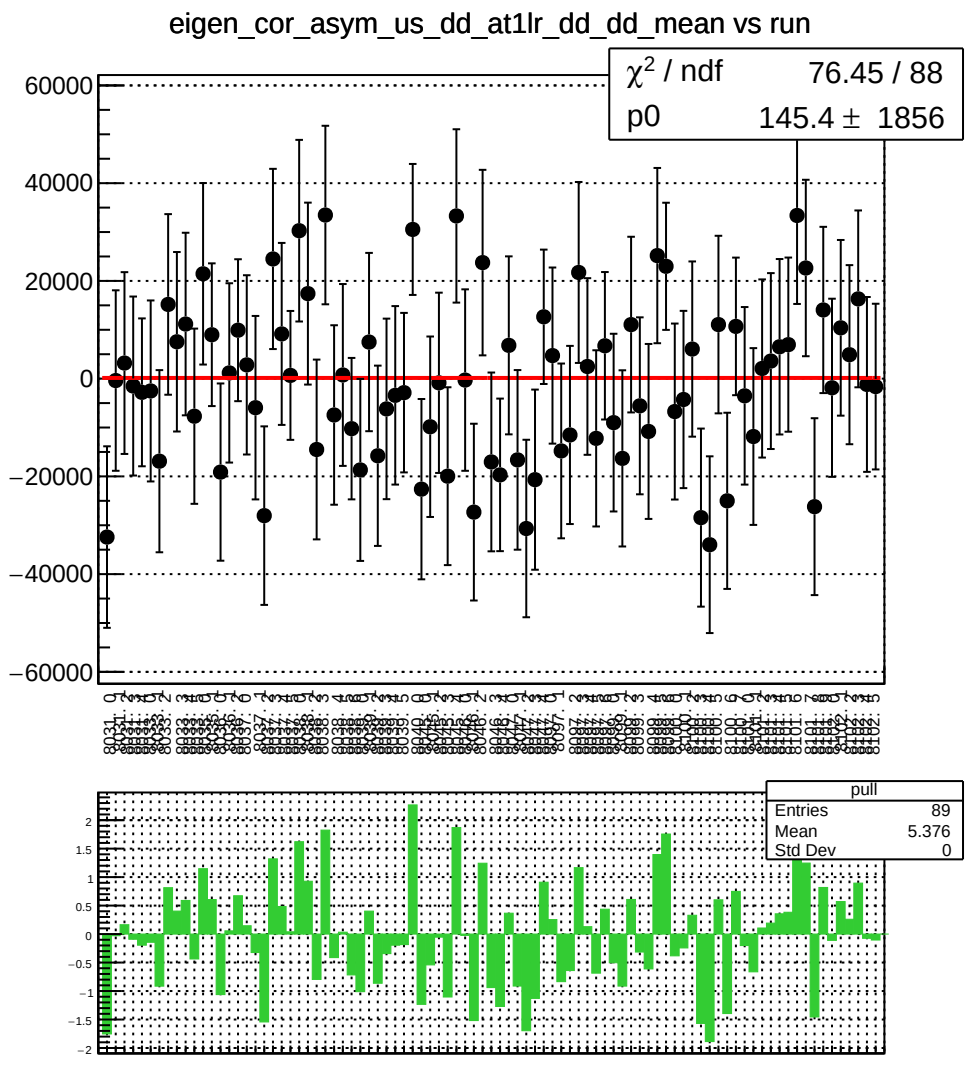

pull1D
Entries 89
Mean −0.0228
Std Dev 0.9266

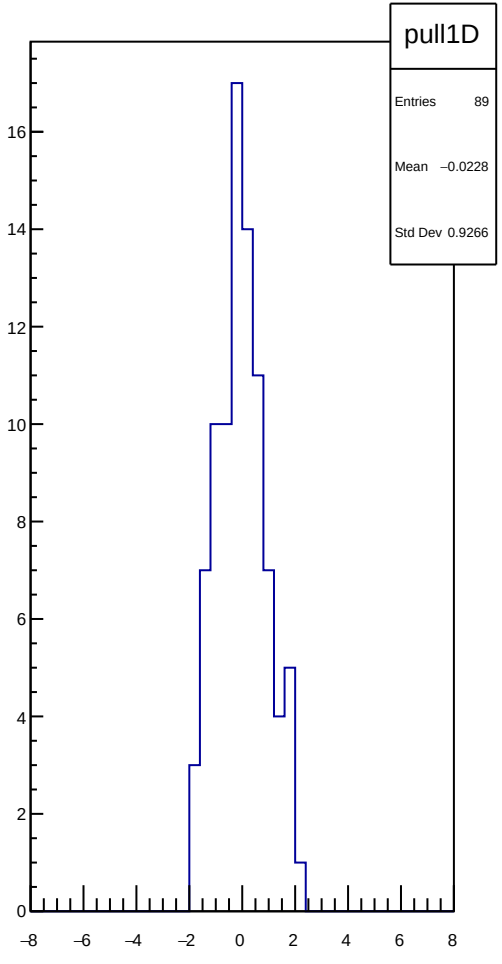

cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 299.9 / 88
p0 1735 ± 1.312
1820
1800
1780
1760
1740
1720
1700
1680

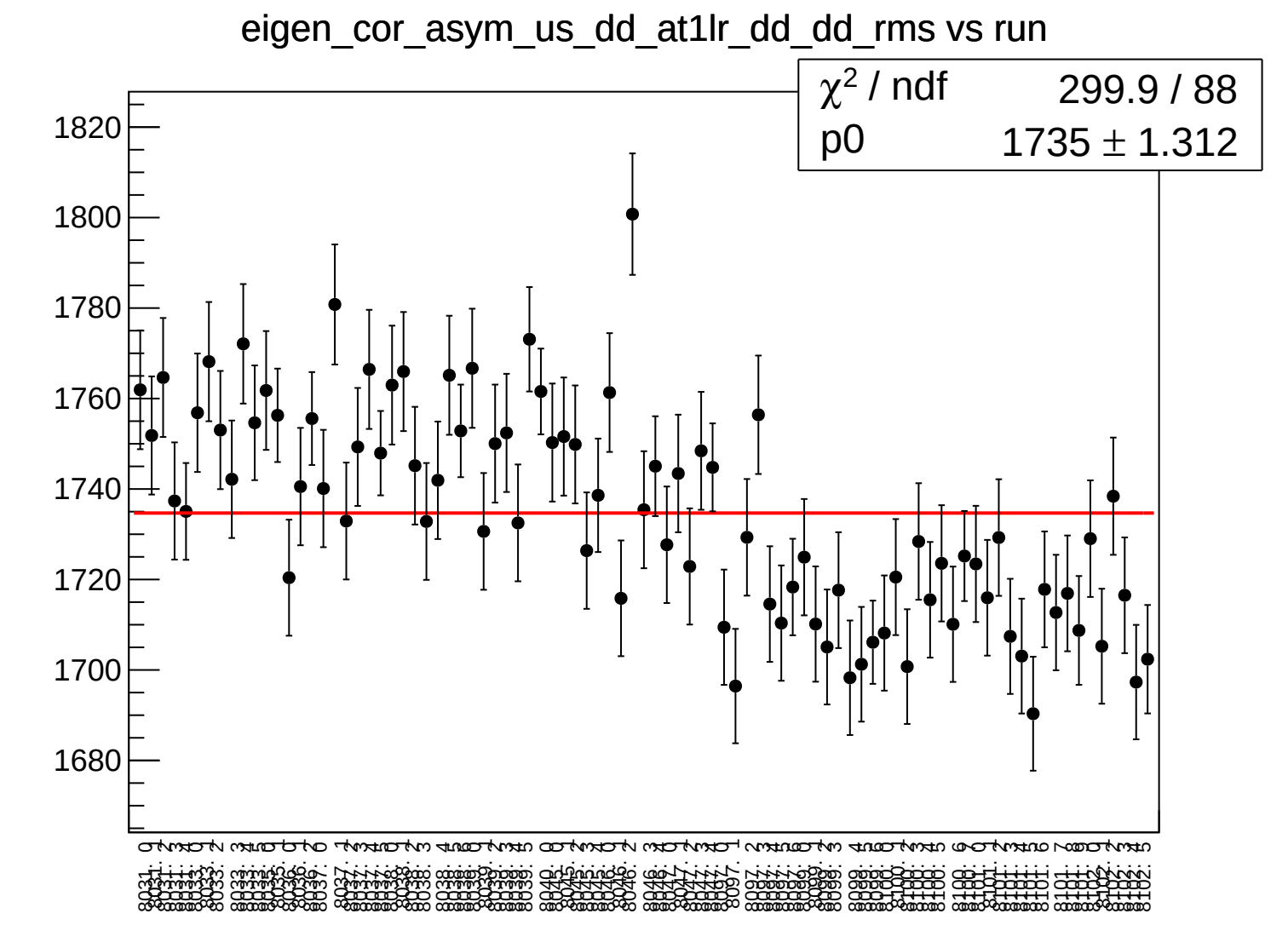

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
χ² / ndf 67.6 / 88
p0 −1657 ± 1191
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean −154.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

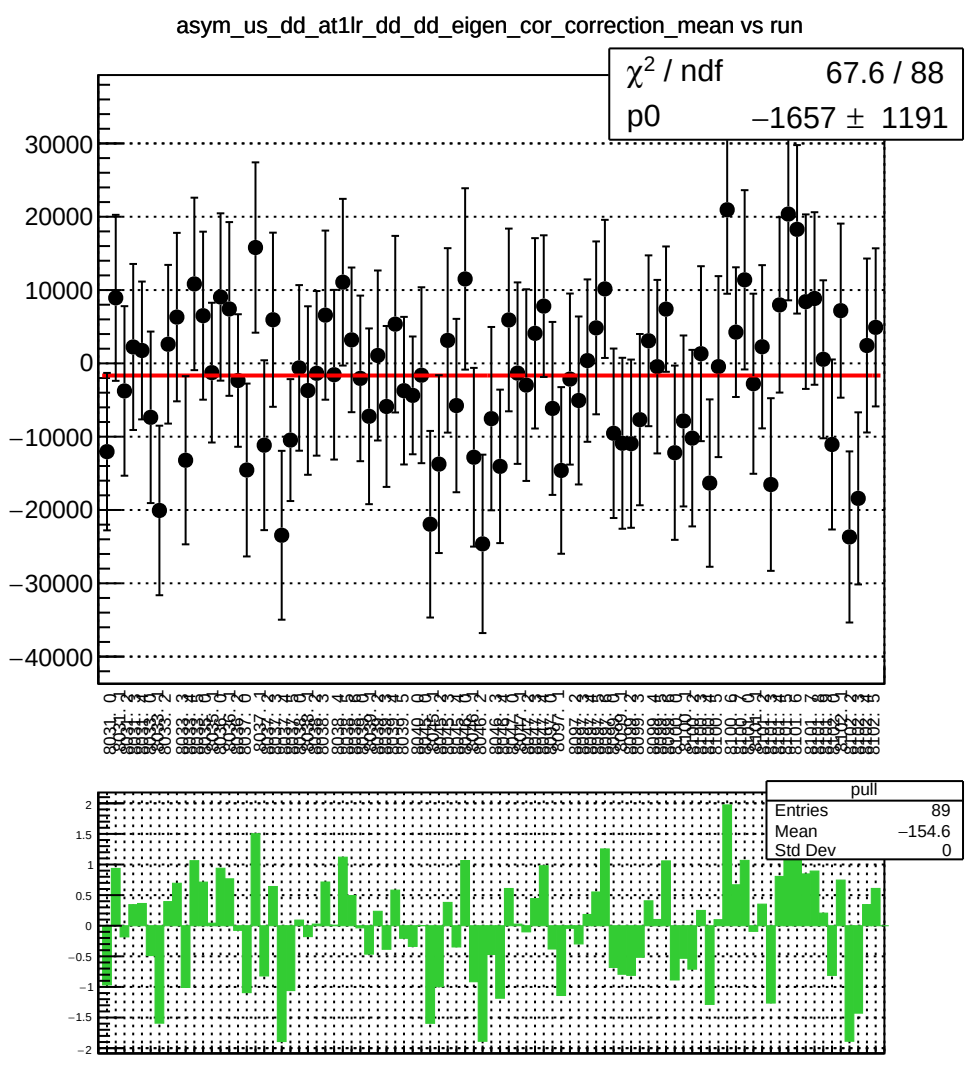

pull1D
Entries 89
Mean −0.007108
Std Dev 0.8715
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

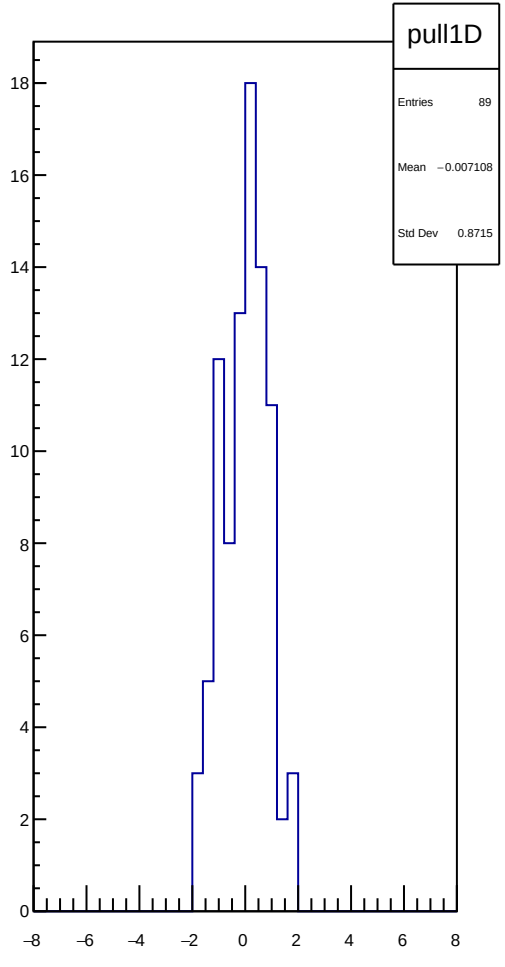

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 2612 / 88
p0 1113 ± 0.8423
1250
1200
1150
1100
1050
1000

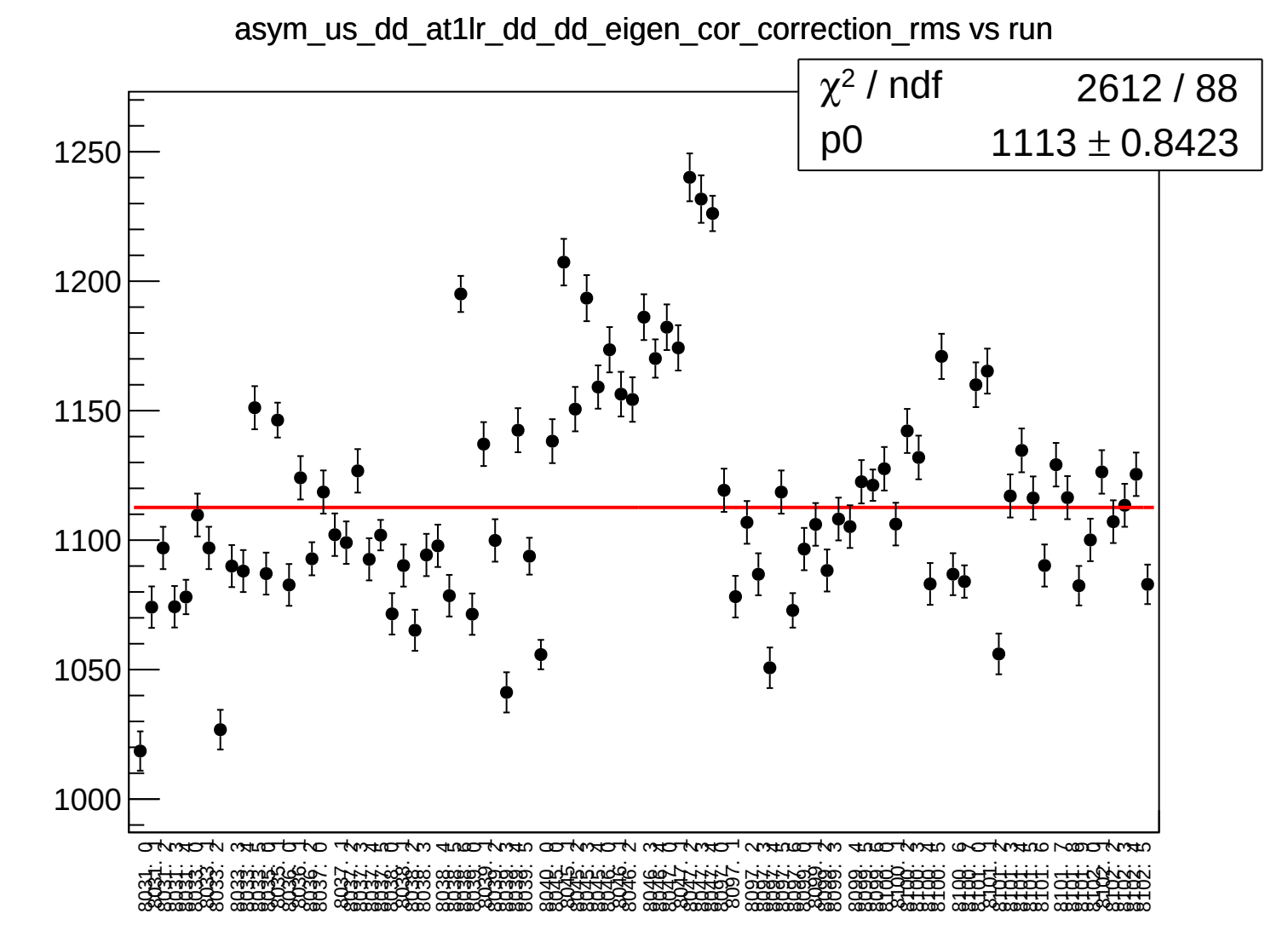

eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 76.45 / 88
p0 145.4 ± 1856
pull
Entries 89
Mean 5.376
Std Dev 0

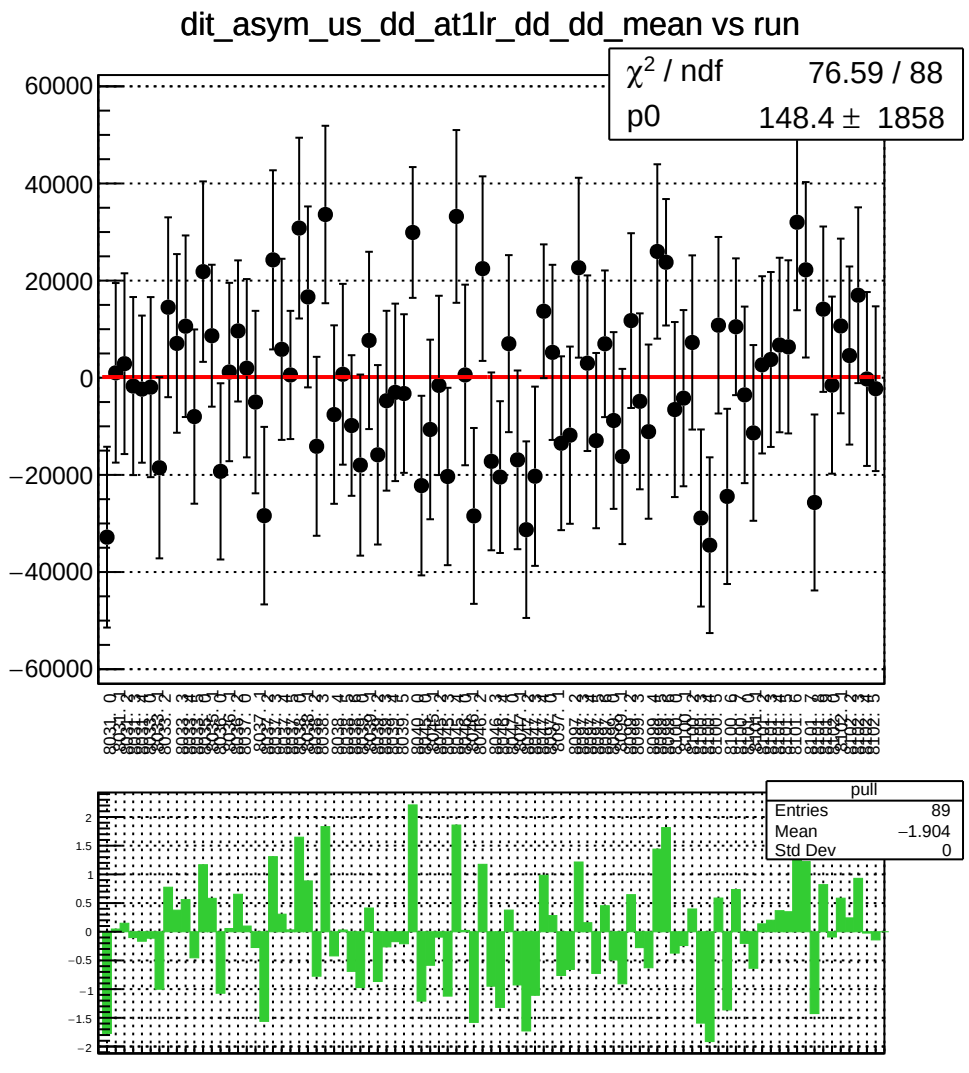

pull1D
Entries 89
Mean −0.0228
Std Dev 0.9266

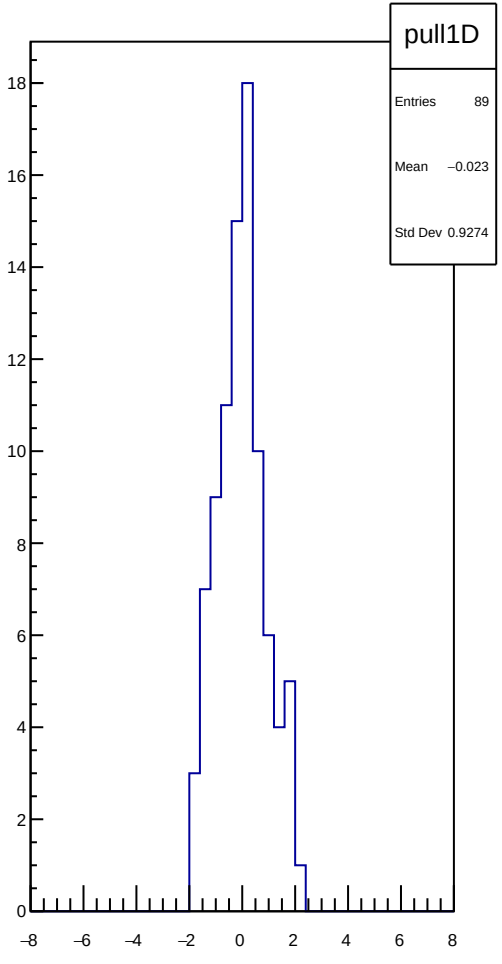

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 299.9 / 88
p0 1735 ± 1.312
1820
1800
1780
1760
1740
1720
1700
1680

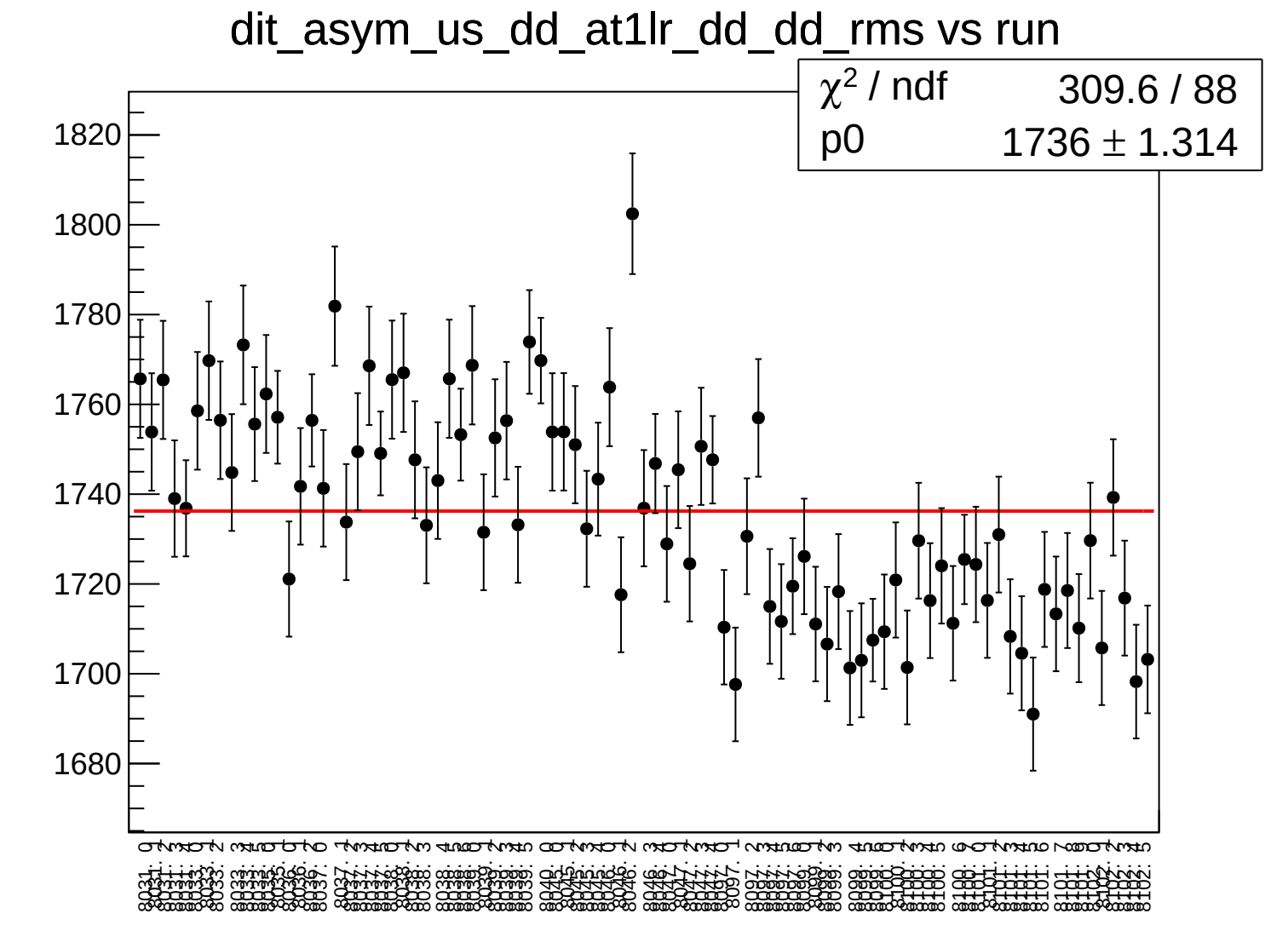

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 67.6 / 88
p0 −1657 ± 1191
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean −154.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

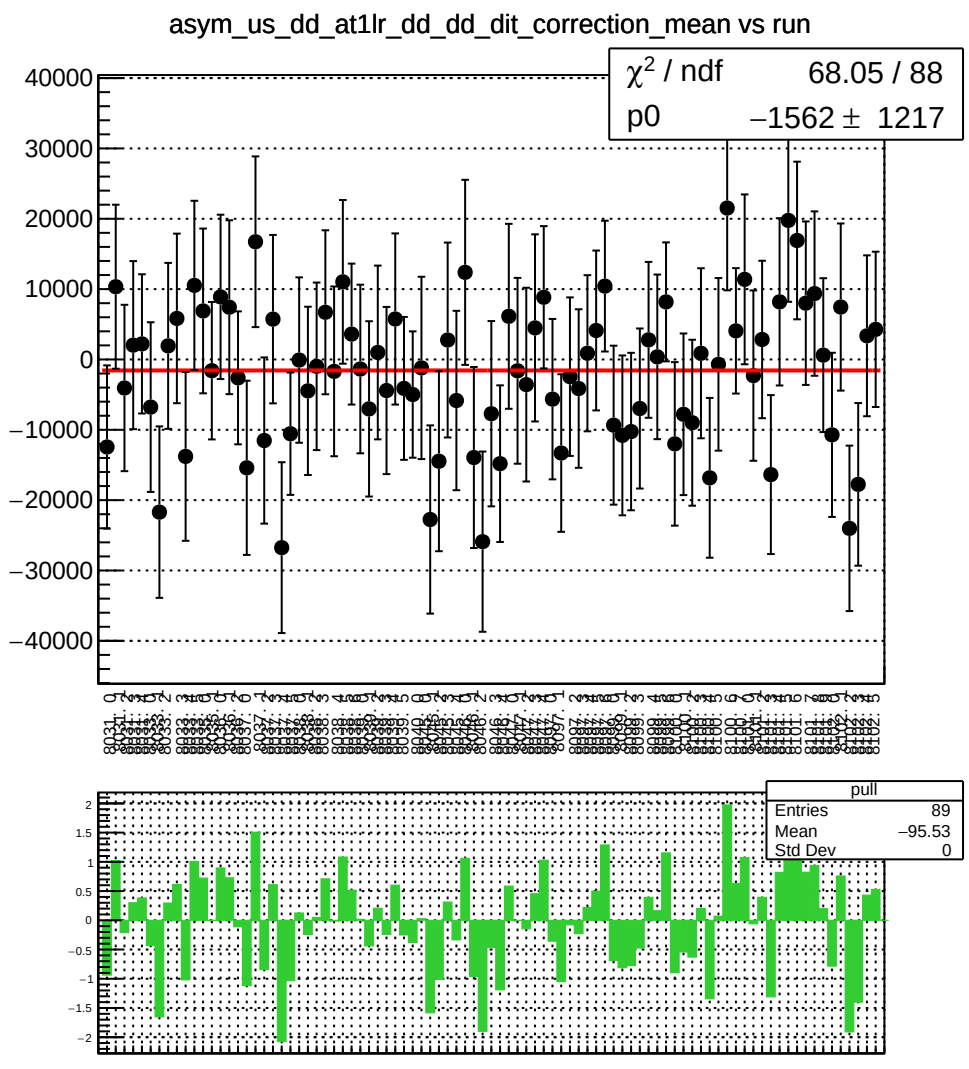

pull1D
Entries 89
Mean −0.007108
Std Dev 0.8715
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

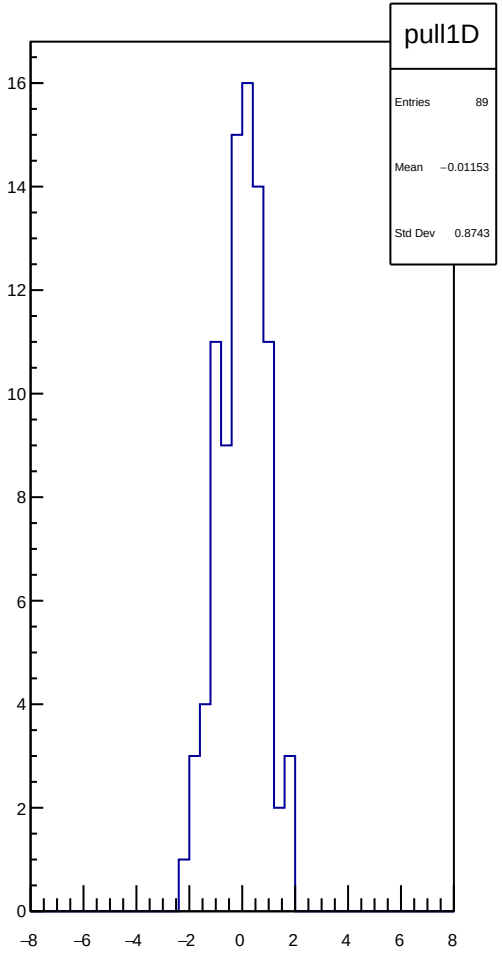

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 2612 / 88
p0 1113 ± 0.8423
1250
1200
1150
1100
1050
1000

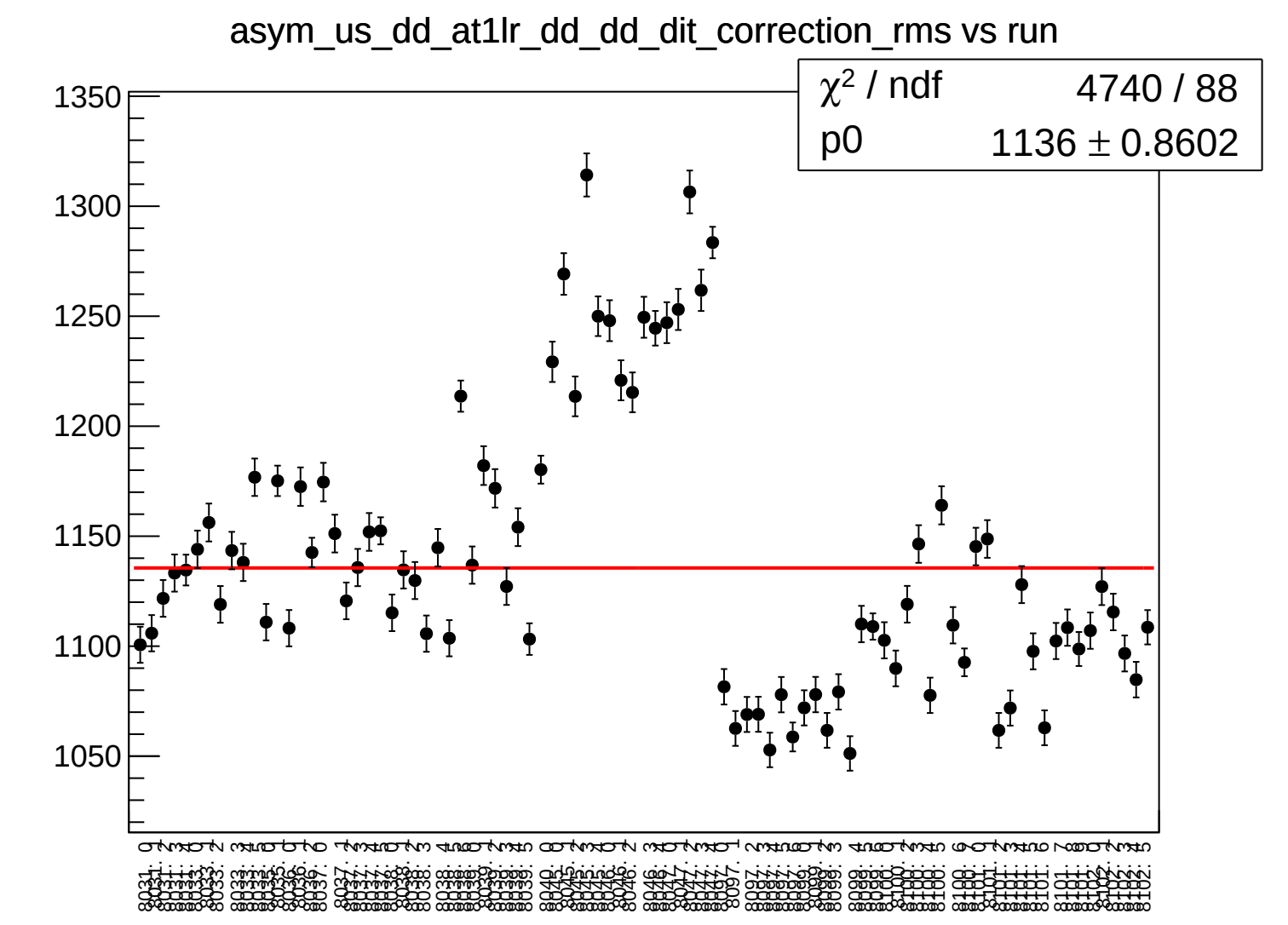

dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 76.59 / 88
p0 148.4 ± 1858
pull
Entries 89
Mean −1.904
Std Dev 0

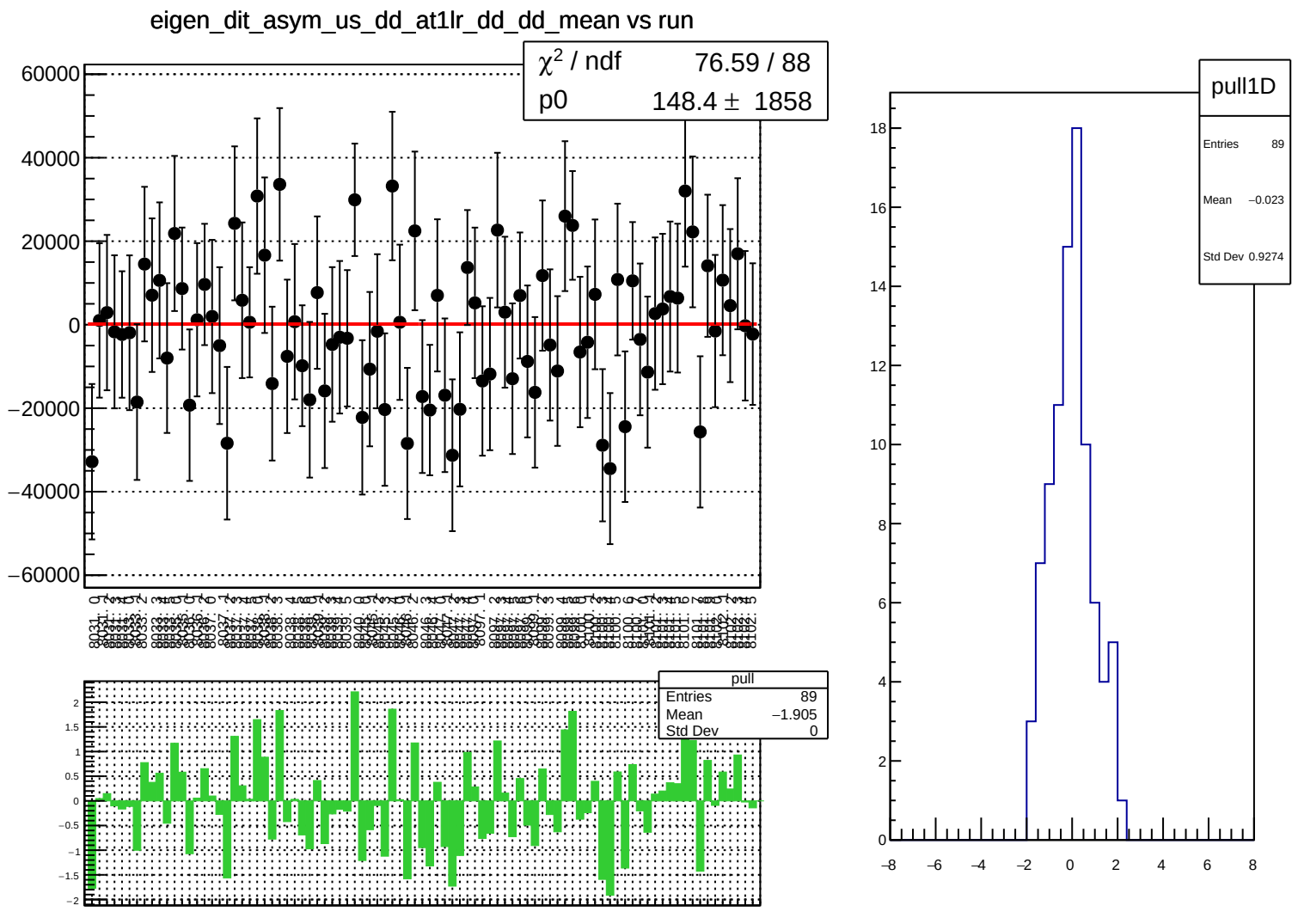

pull1D
Entries 89
Mean −0.023
Std Dev 0.9274

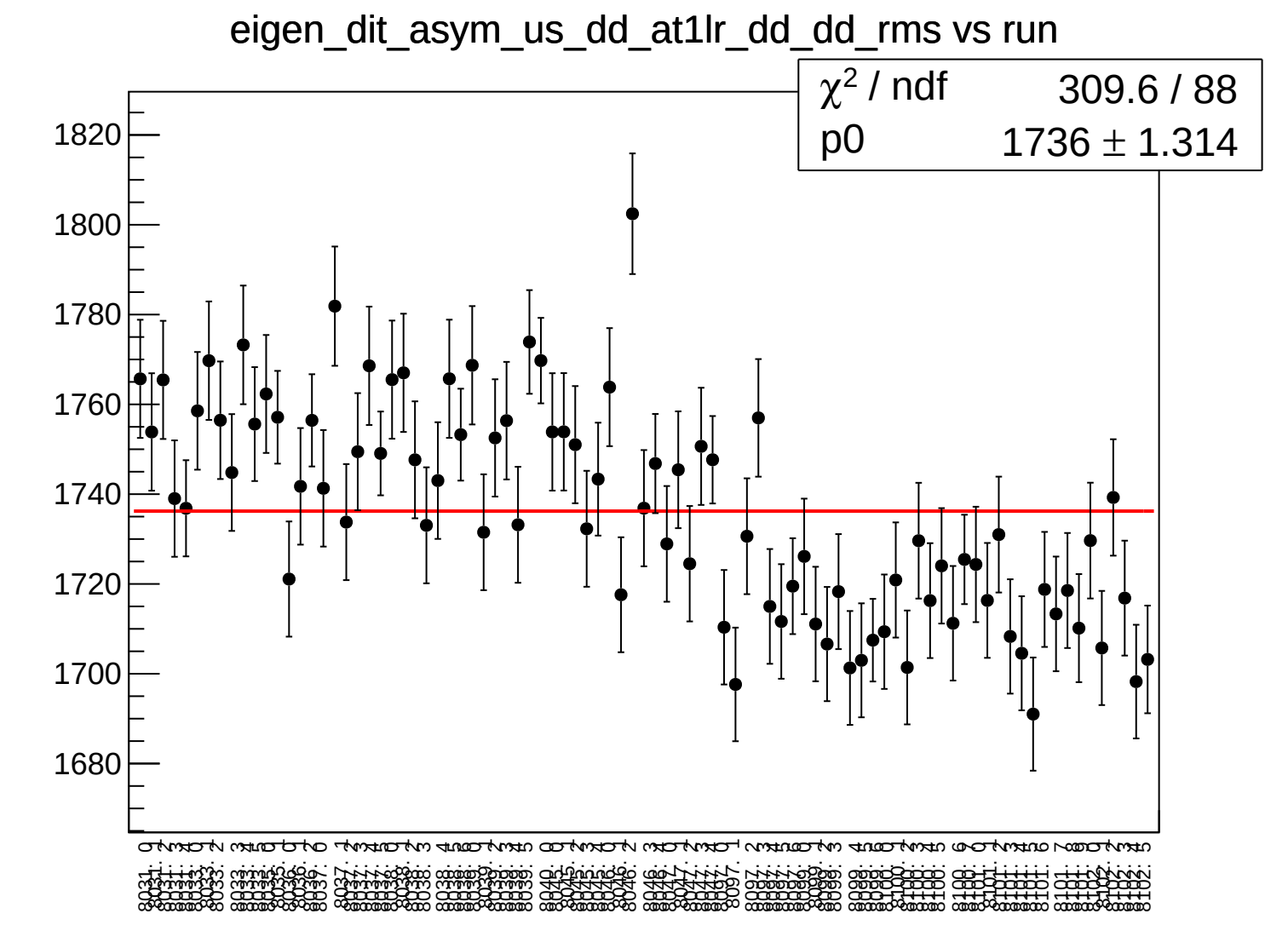

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 309.6 / 88
p0 1736 ± 1.314
1820
1800
1780
1760
1740
1720
1700
1680

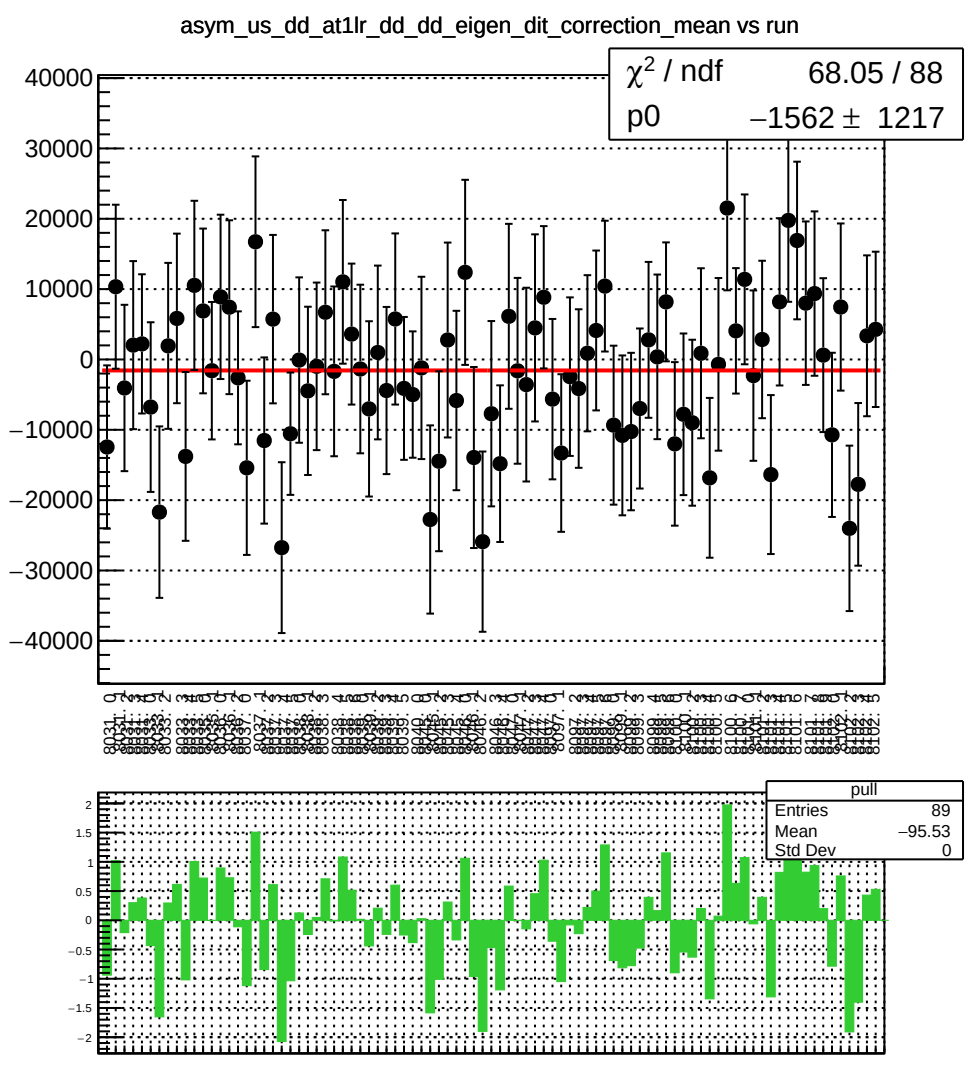

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
χ² / ndf 68.05 / 88
p0 −1562 ± 1217
pull
Entries 89
Mean −95.53
Std Dev 0

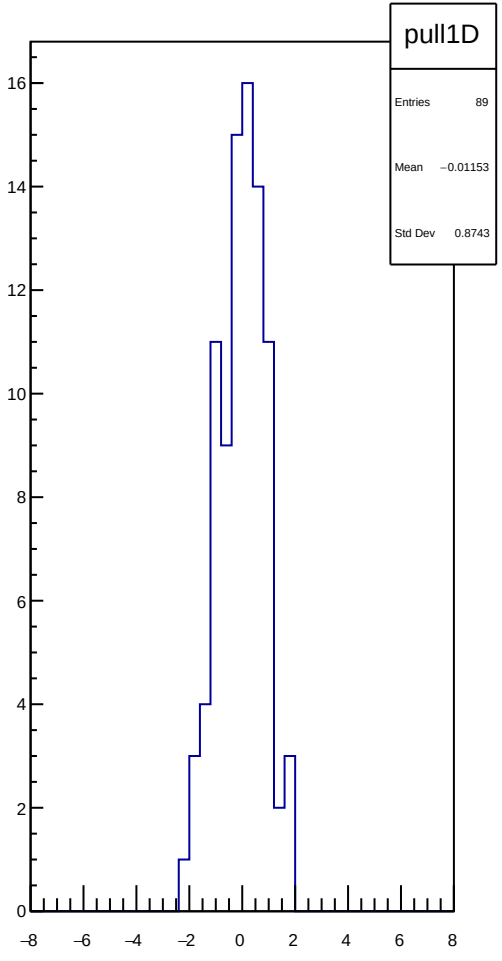

pull1D
Entries 89
Mean −0.01153
Std Dev 0.8743

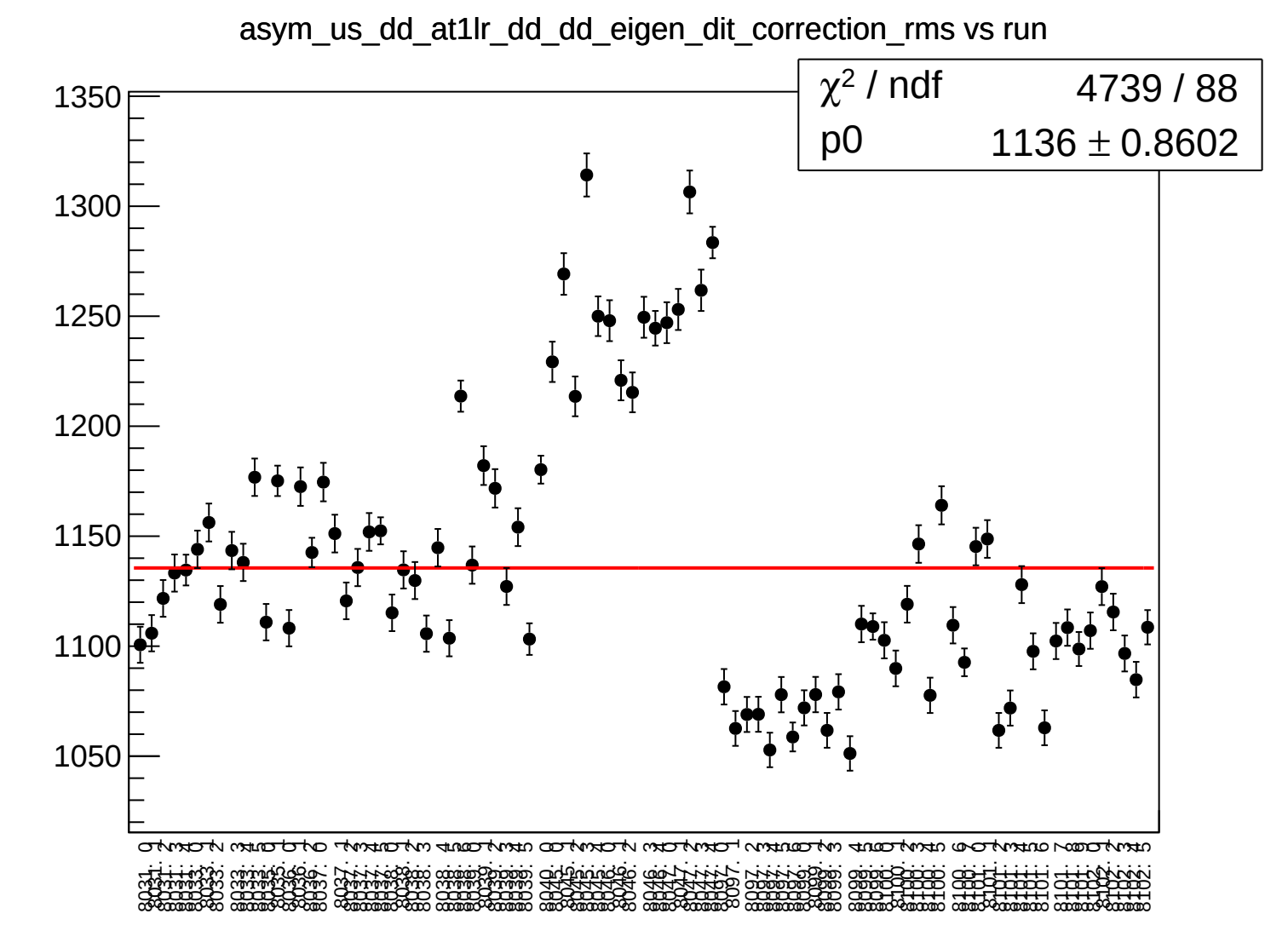

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 4740 / 88
p0 1136 ± 0.8602
1350
1300
1250
1200
1150
1100
1050

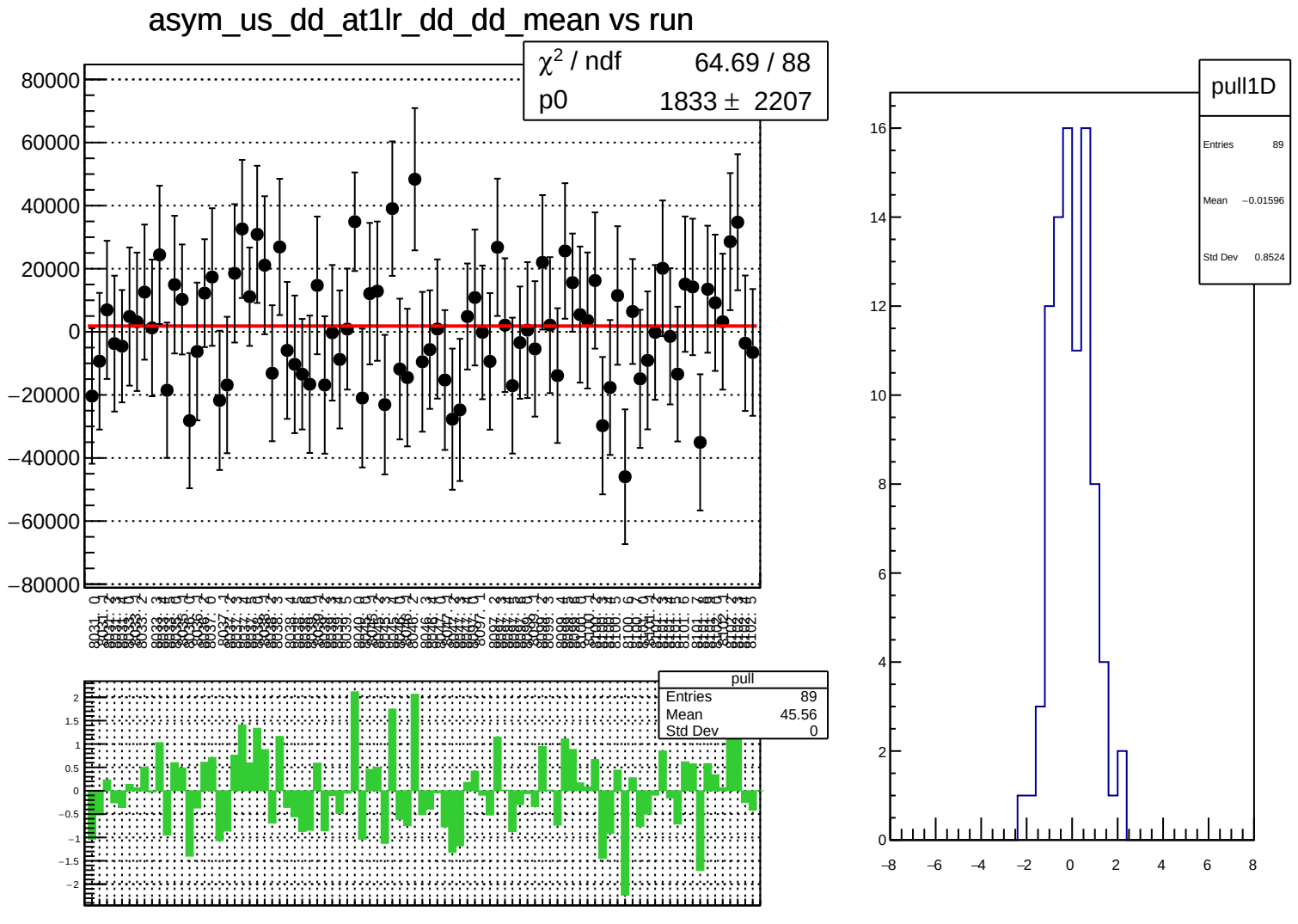

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 76.59 / 88
p0 148.4 ± 1858
pull
Entries 89
Mean −1.905
Std Dev 0
pull1D
Entries 89
Mean −0.023
Std Dev 0.9274

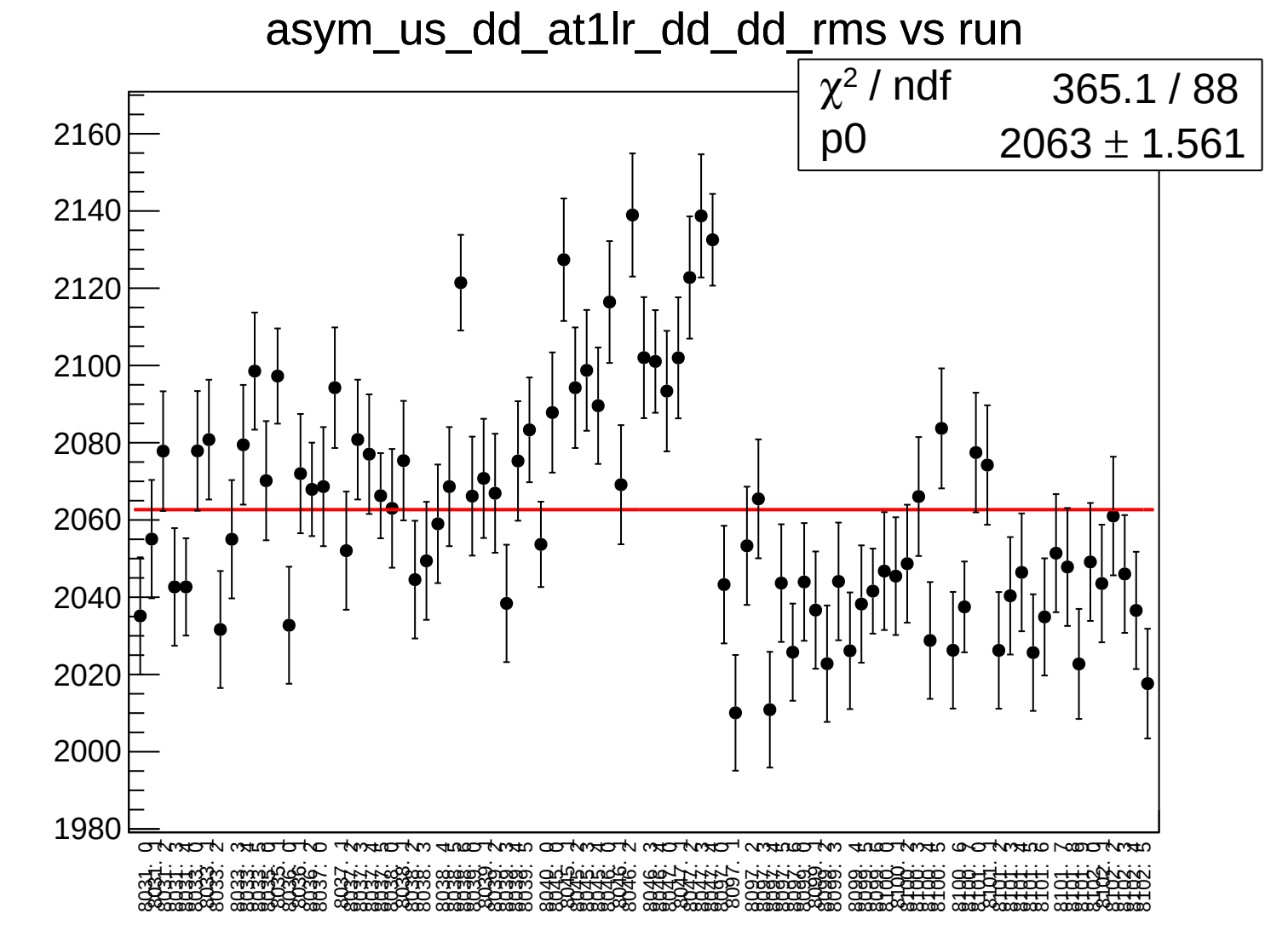

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 309.6 / 88
p0 1736 ± 1.314
1820
1800
1780
1760
1740
1720
1700
1680

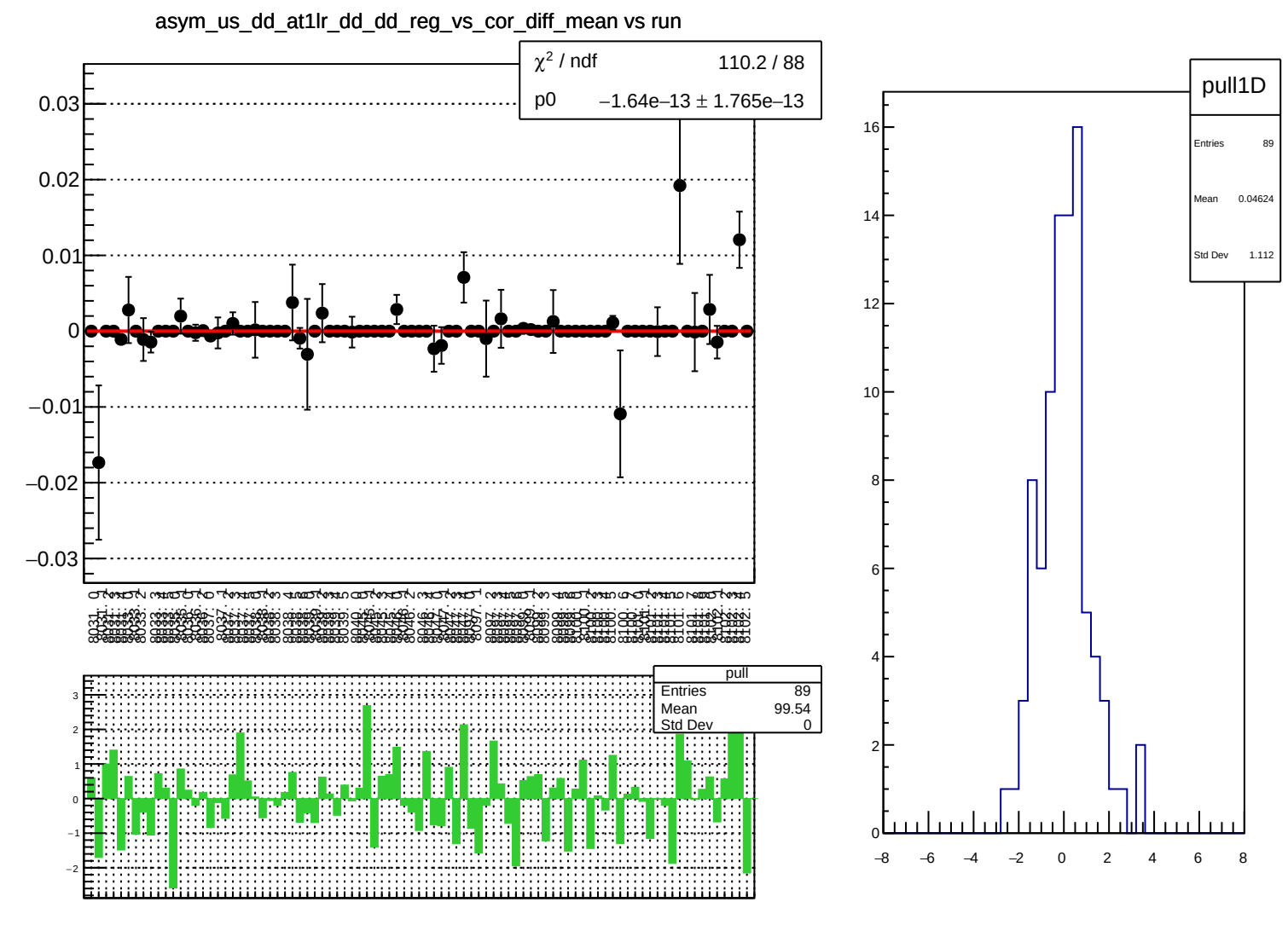

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 68.05 / 88
p0 −1562 ± 1217
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean −95.53
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

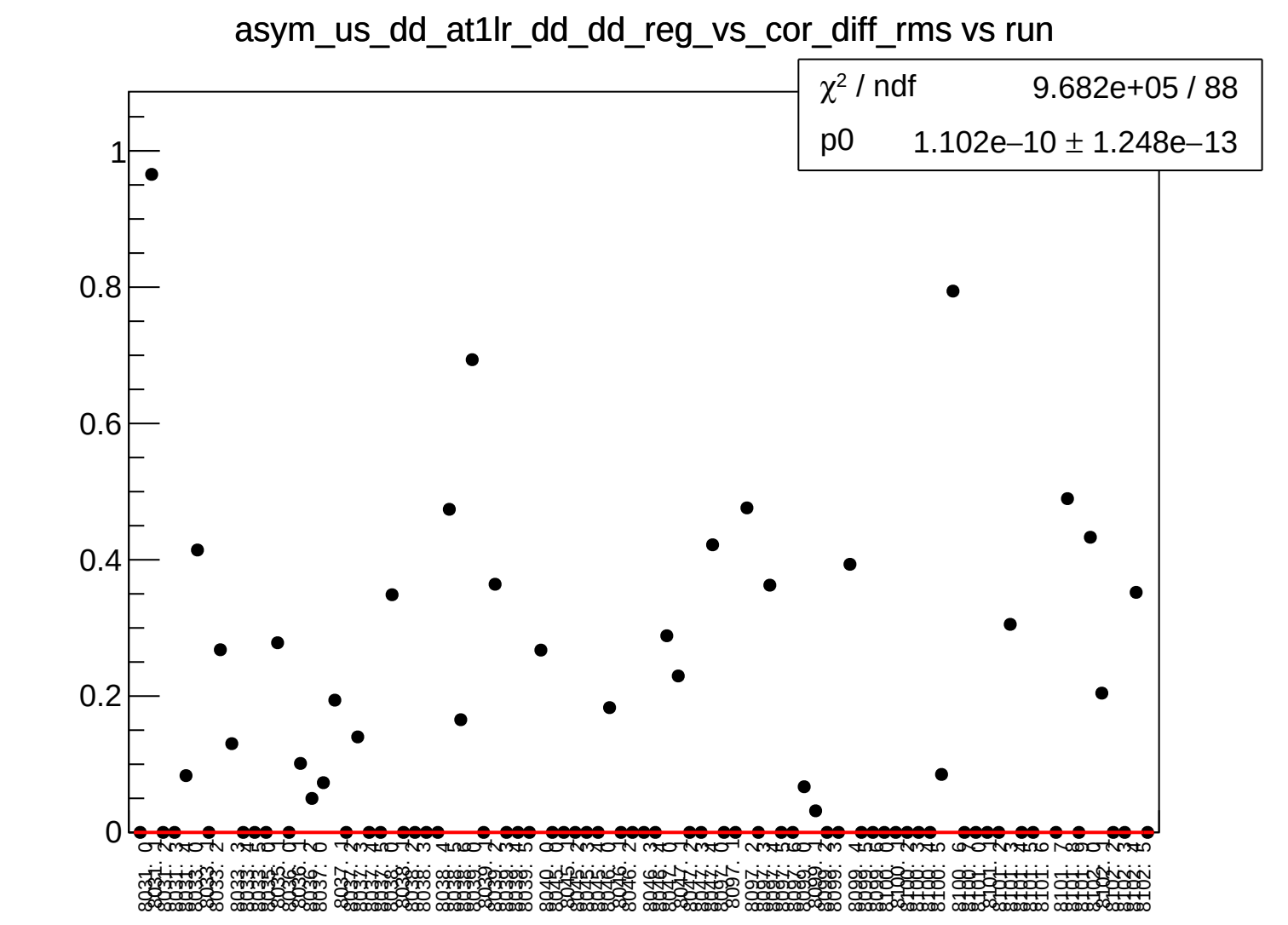

pull1D
Entries 89
Mean −0.01153
Std Dev 0.8743
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

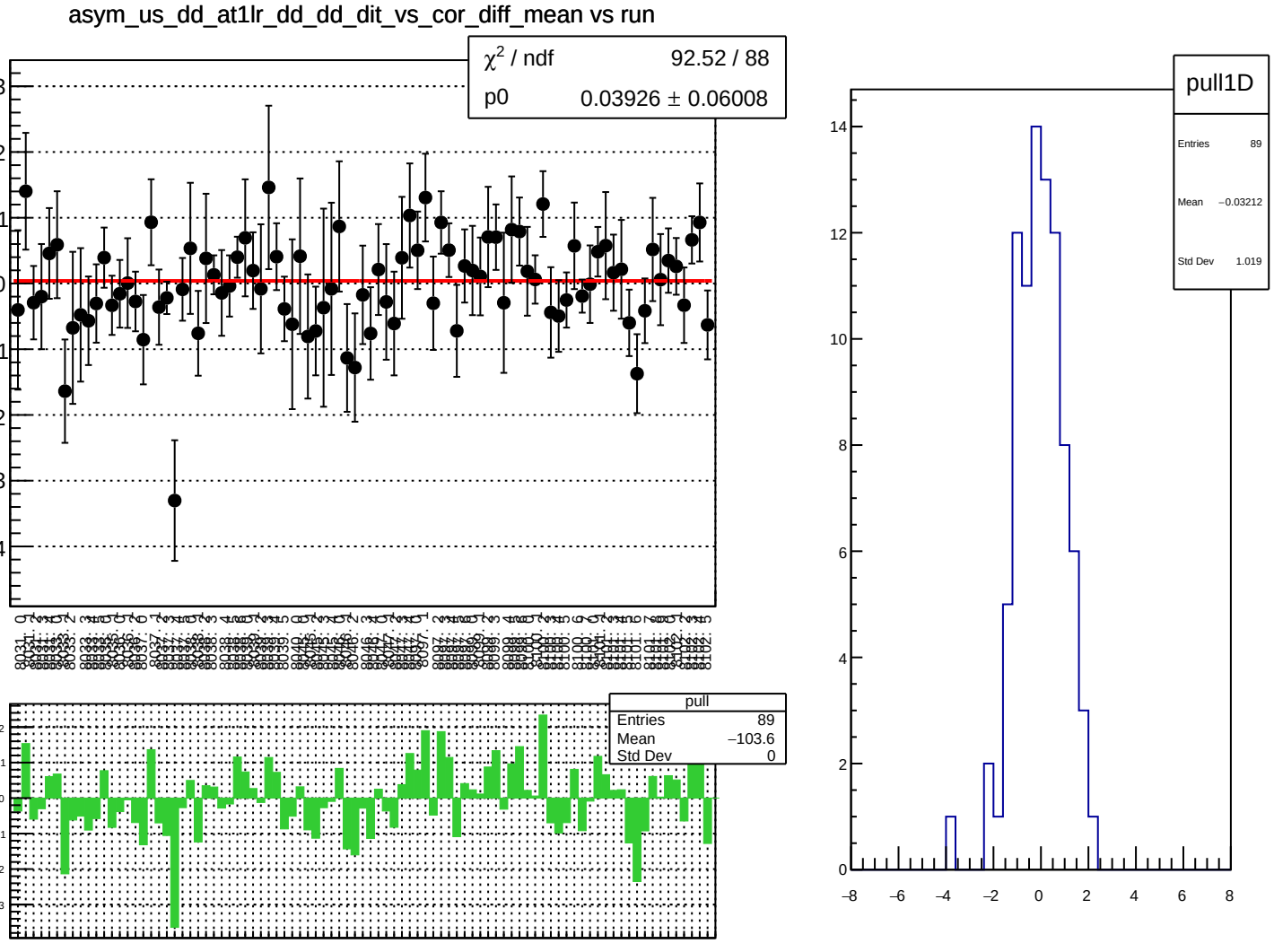

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 4739 / 88
p0 1136 ± 0.8602
1350
1300
1250
1200
1150
1100
1050

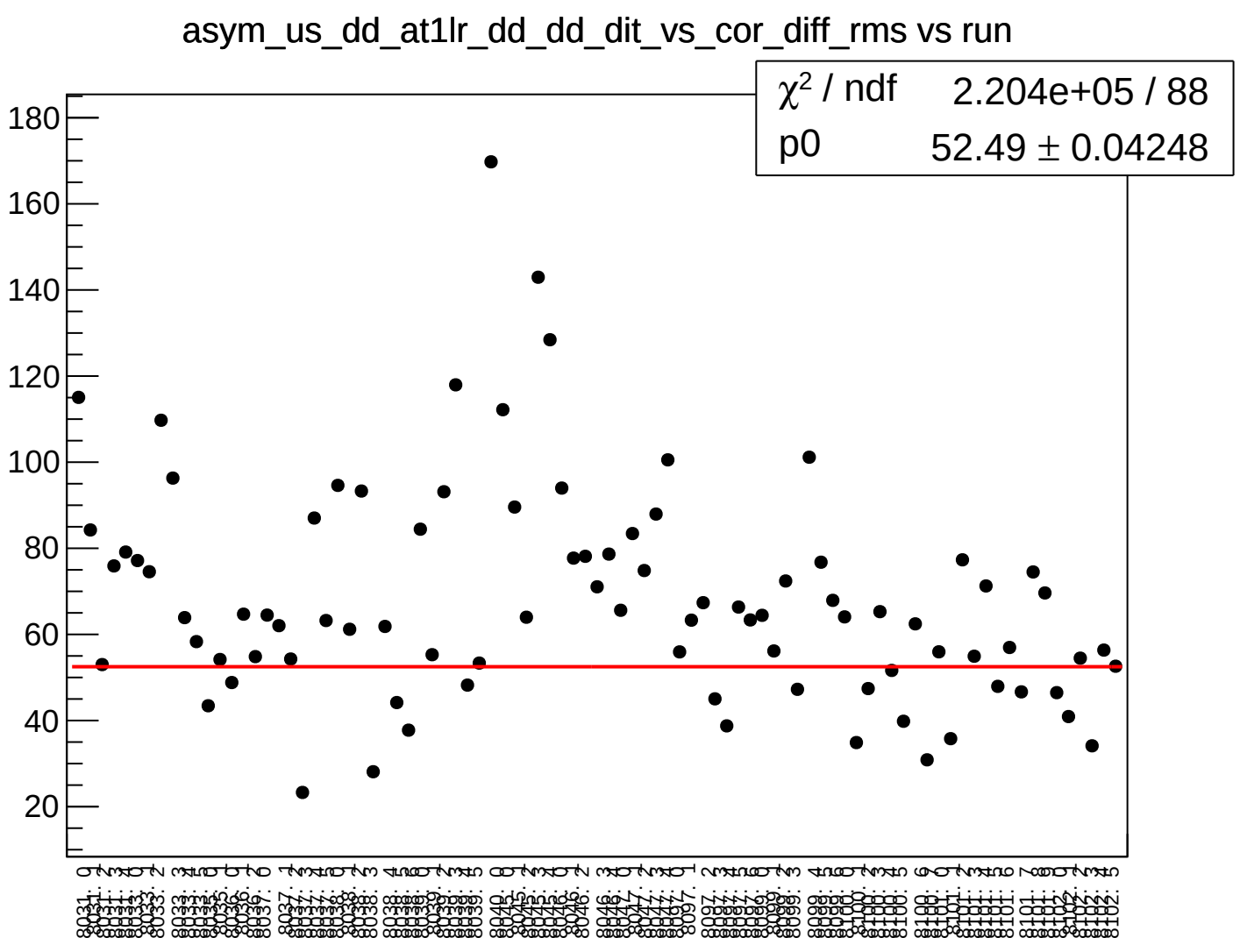

asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 64.69 / 88
p0 1833 ± 2207
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 45.56
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.01596
Std Dev 0.8524
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

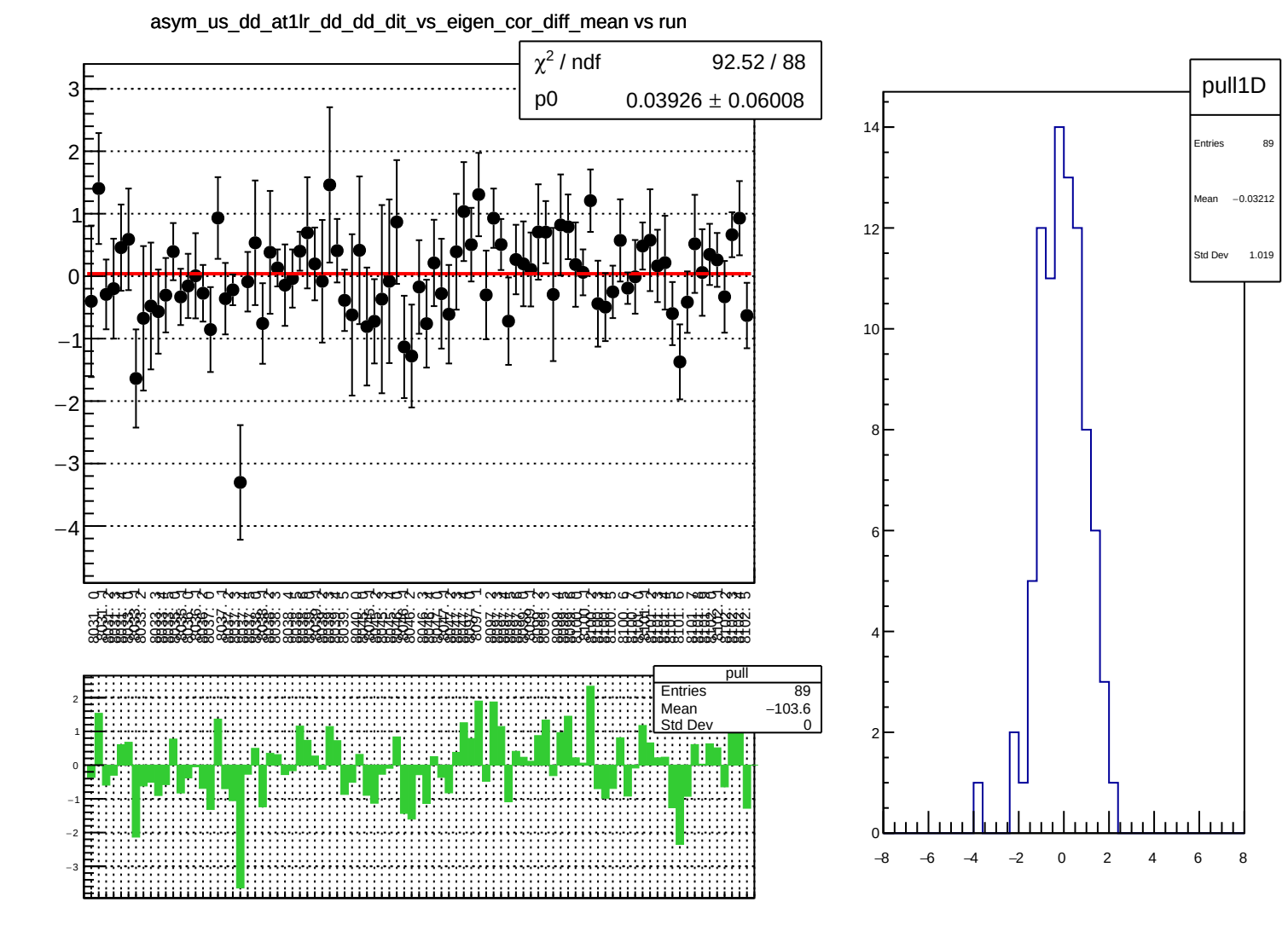

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 365.1 / 88
p0 2063 ± 1.561
2160
2140
2120
2100
2080
2060
2040
2020
2000
1980

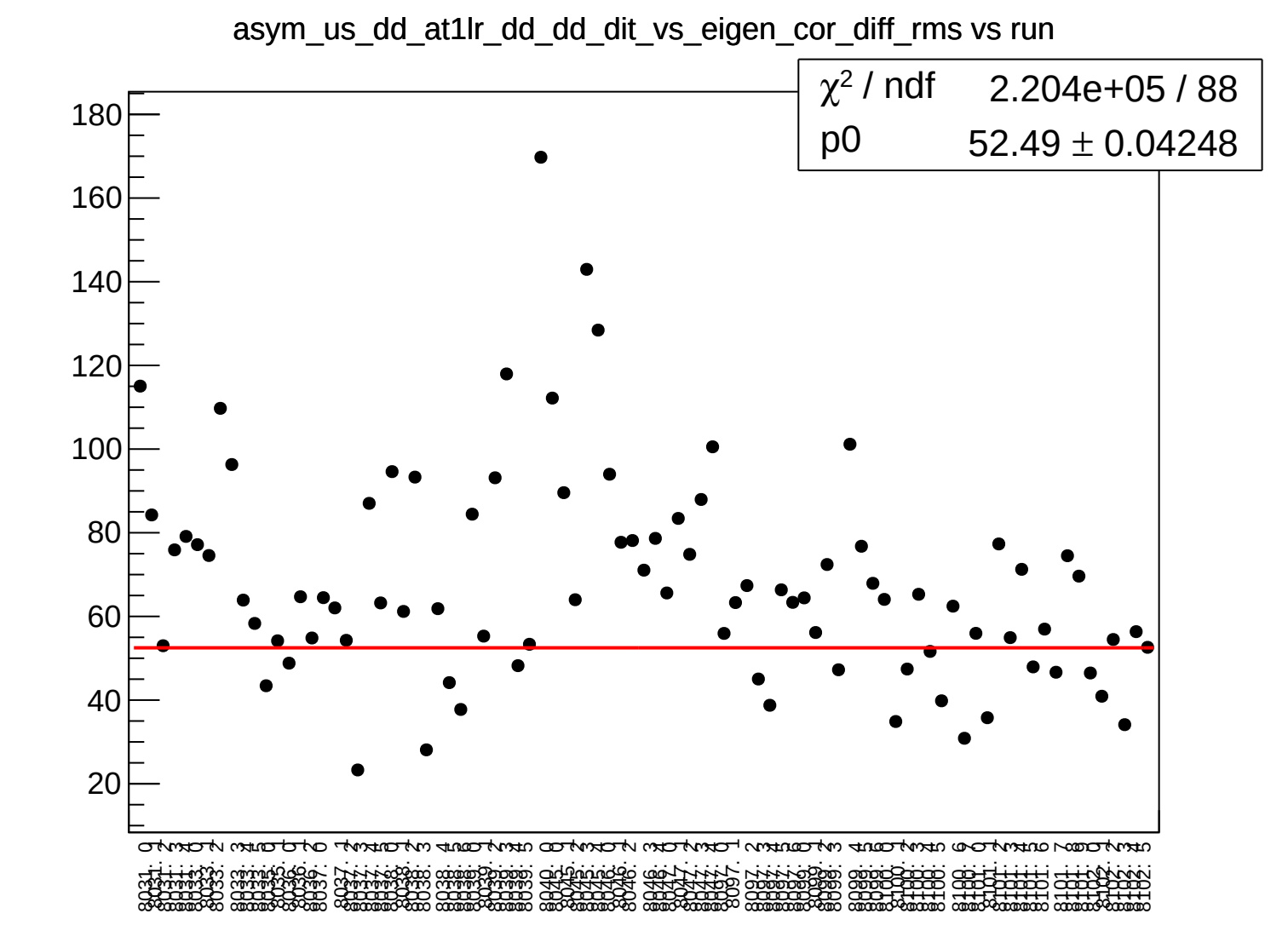

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 110.2 / 88
p0 −1.64e−13 ± 1.765e−13
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 89
Mean 99.54
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.04624
Std Dev 1.112
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

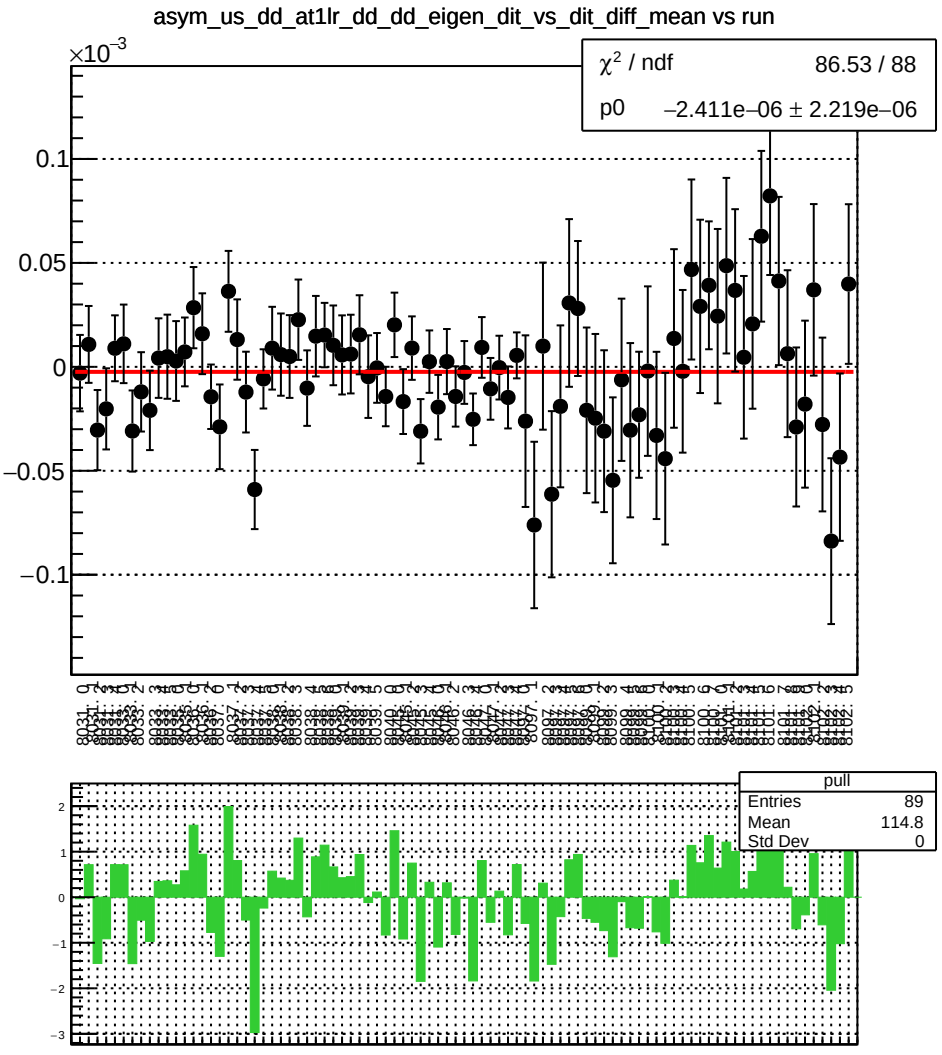

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.682e+05 / 88
p0 1.102e−10 ± 1.248e−13
1
0.8
0.6
0.4
0.2
0

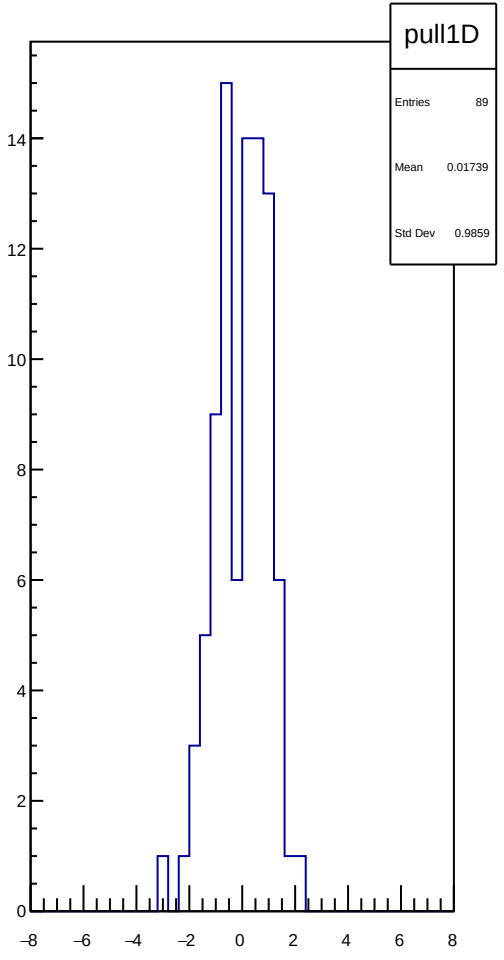

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 92.52 / 88
p0 0.03926 ± 0.06008
pull
Entries 89
Mean −103.6
Std Dev 0
pull1D
Entries 89
Mean −0.03212
Std Dev 1.019

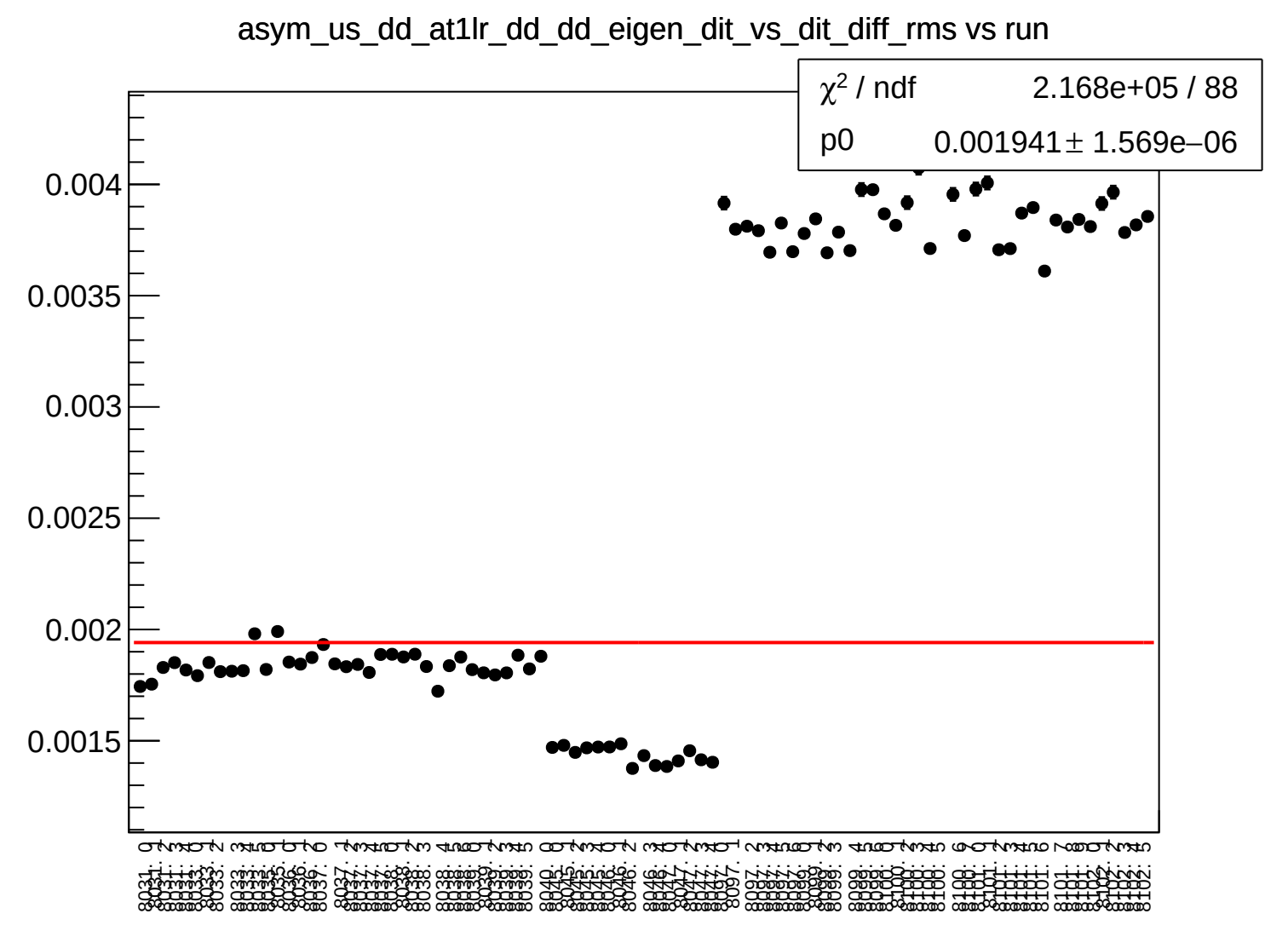

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.204e+05 / 88
p0 52.49 ± 0.04248
180
160
140
120
100
80
60
40
20

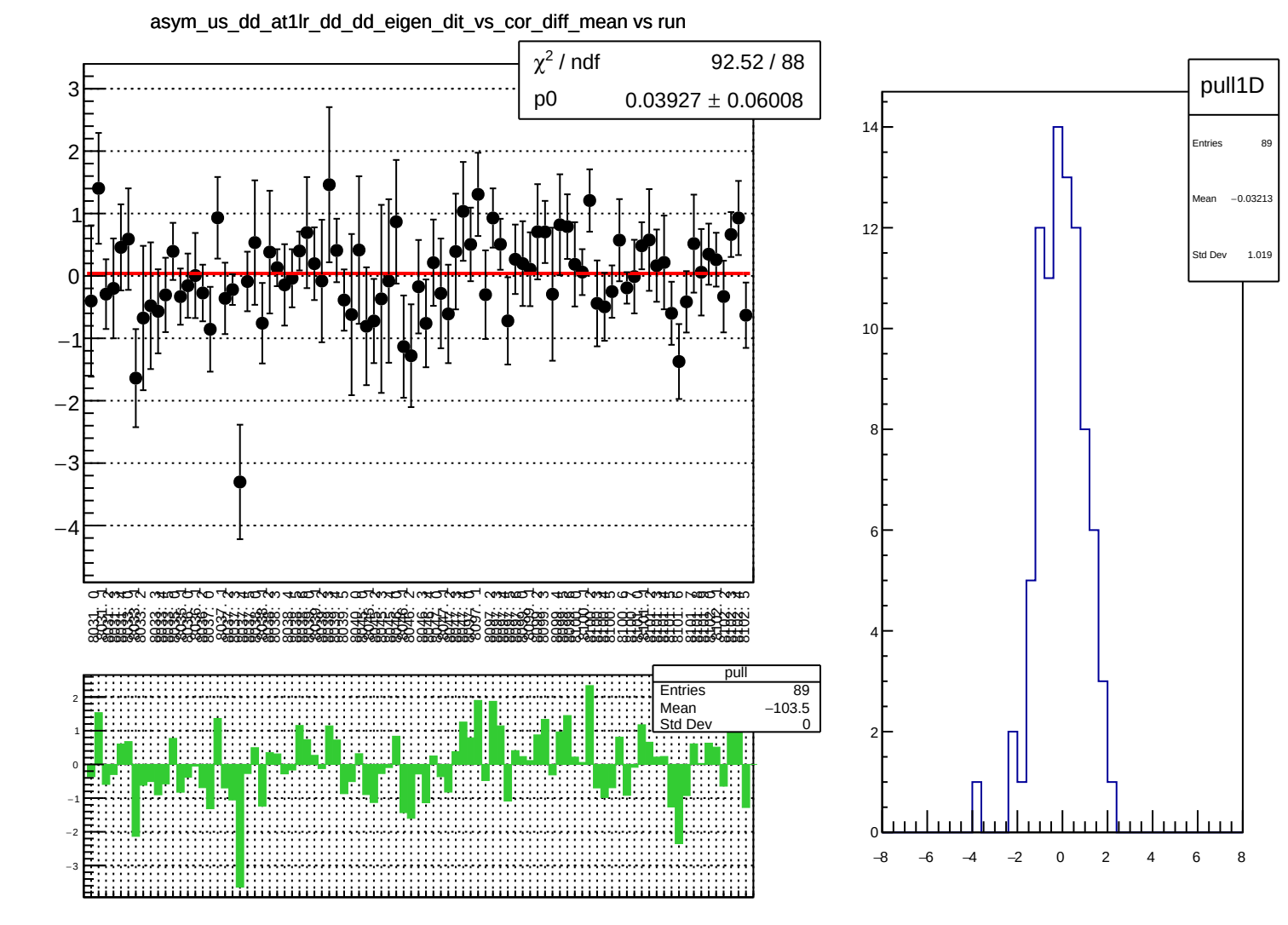

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.52 / 88
p0 0.03926 ± 0.06008
pull
Entries 89
Mean −103.6
Std Dev 0
pull1D
Entries 89
Mean −0.03212
Std Dev 1.019

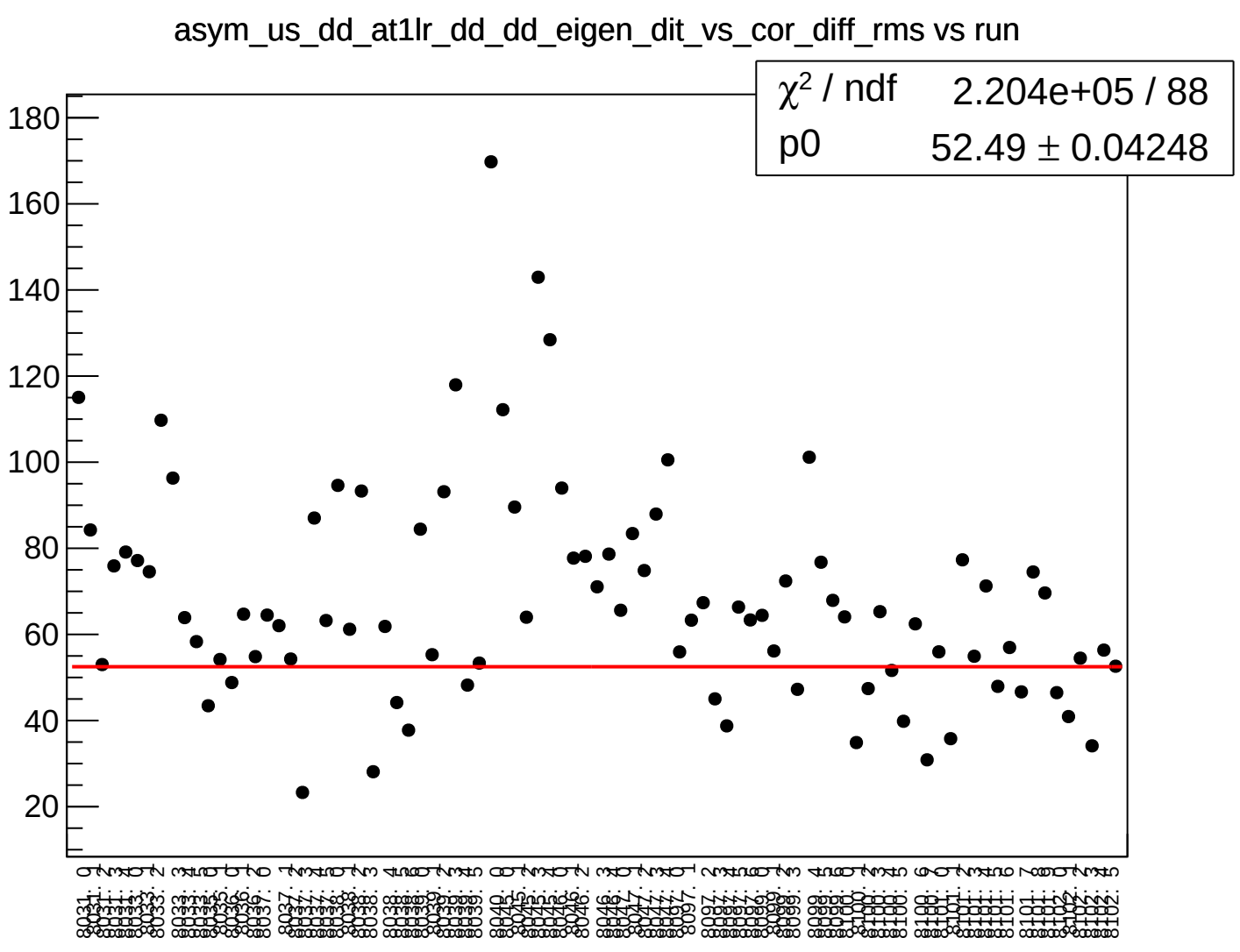

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.204e+05 / 88
p0 52.49 ± 0.04248
180
160
140
120
100
80
60
40
20

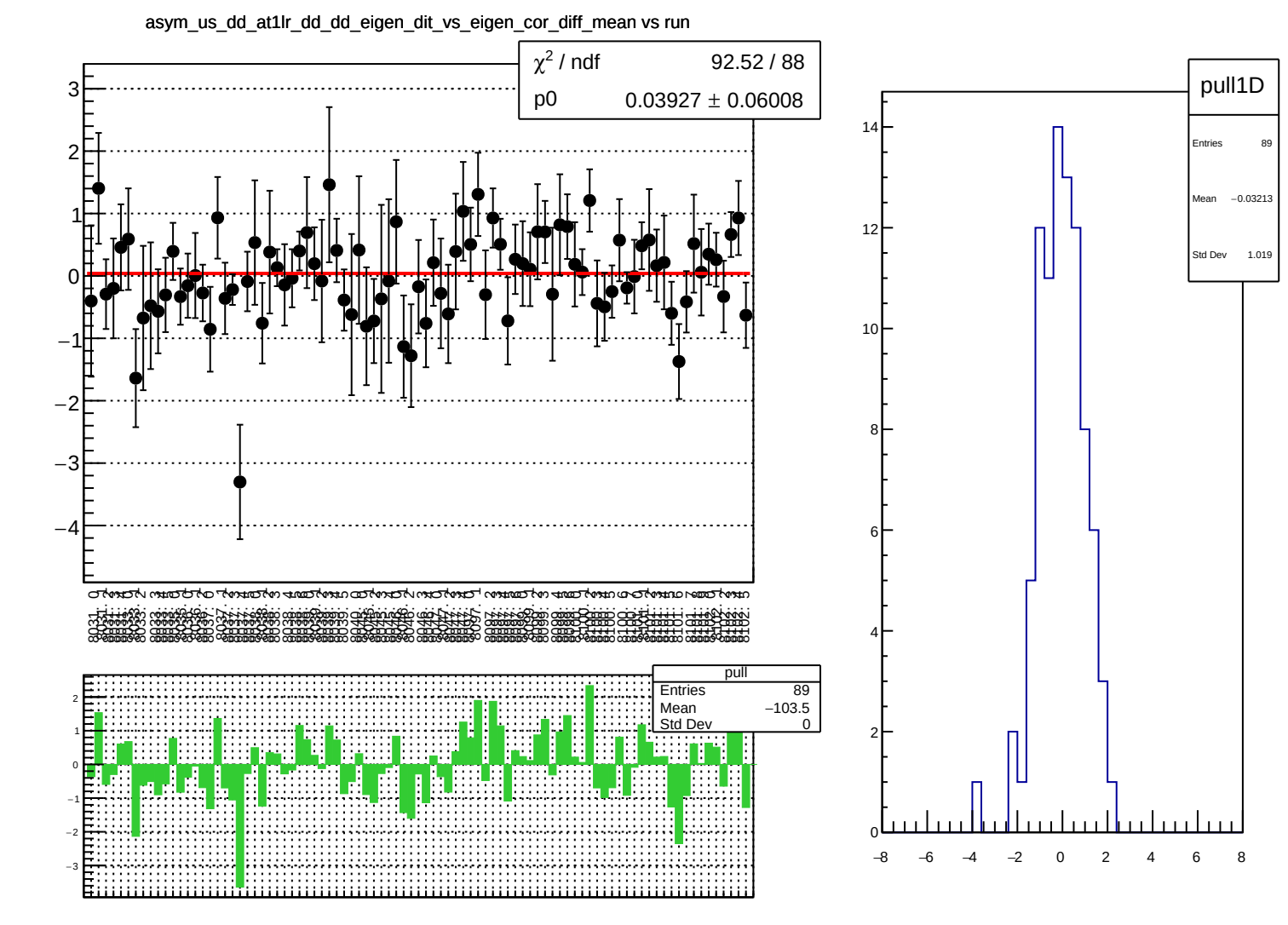

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.53 / 88
p0 −2.411e−06 ± 2.219e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 89
Mean 114.8
Std Dev 0
2
1
0
−1
−2
−3

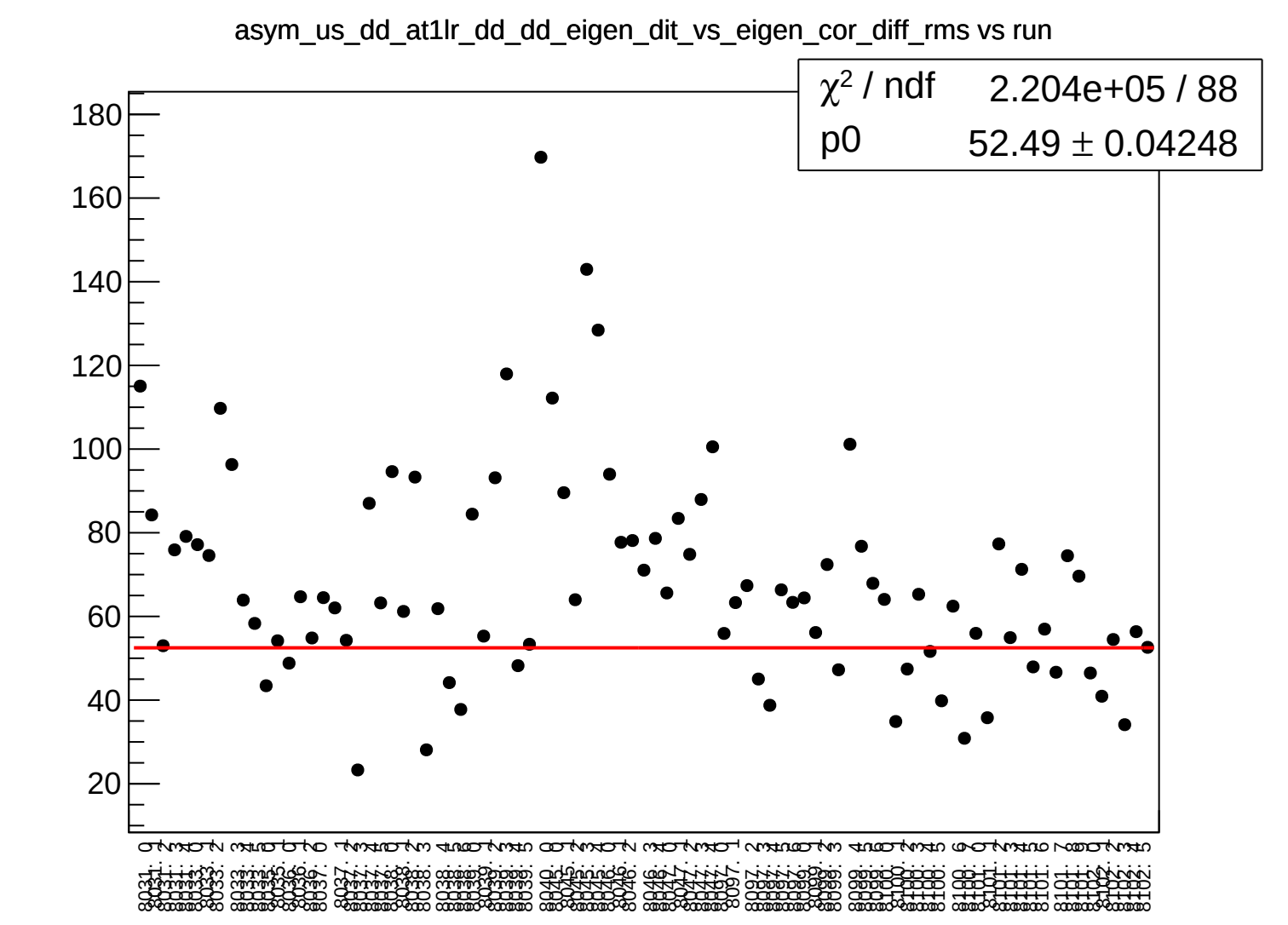

pull1D
Entries 89
Mean 0.01739
Std Dev 0.9859
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

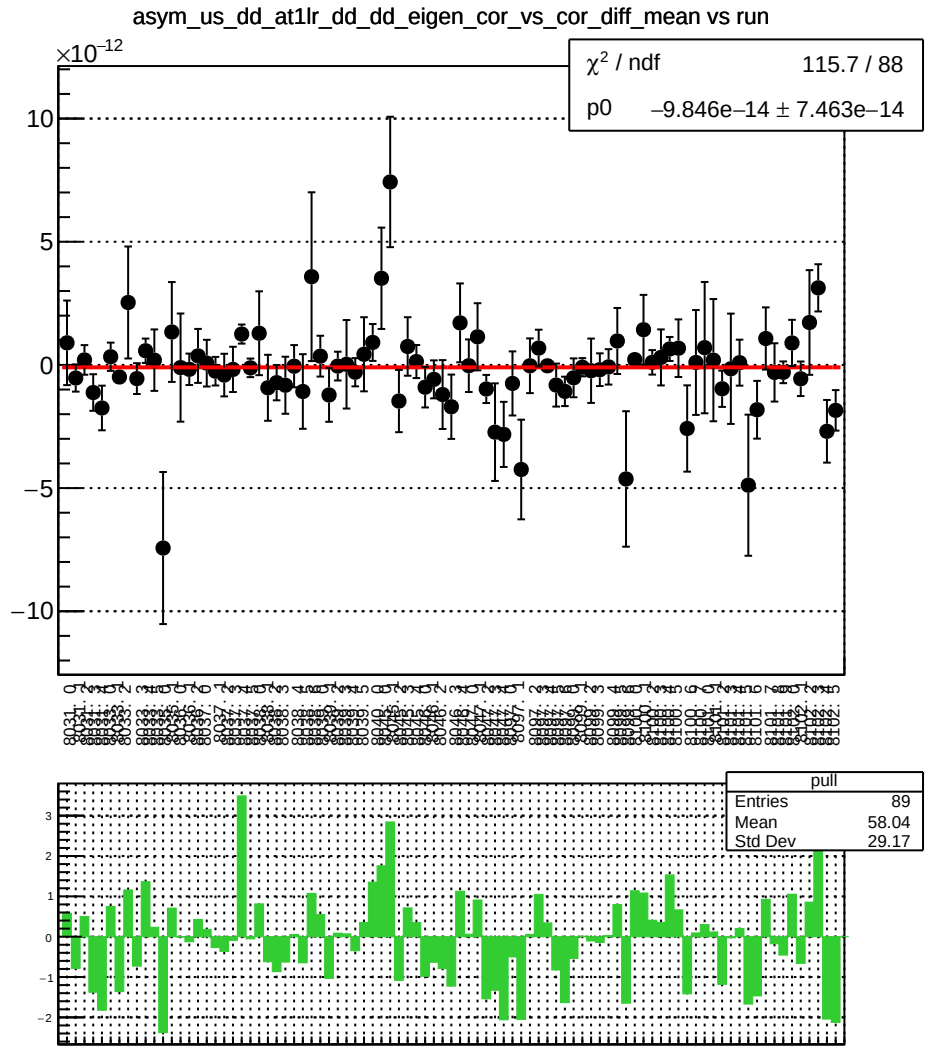

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.168e+05 / 88
p0 0.001941 ± 1.569e−06
0.004
0.0035
0.003
0.0025
0.002
0.0015

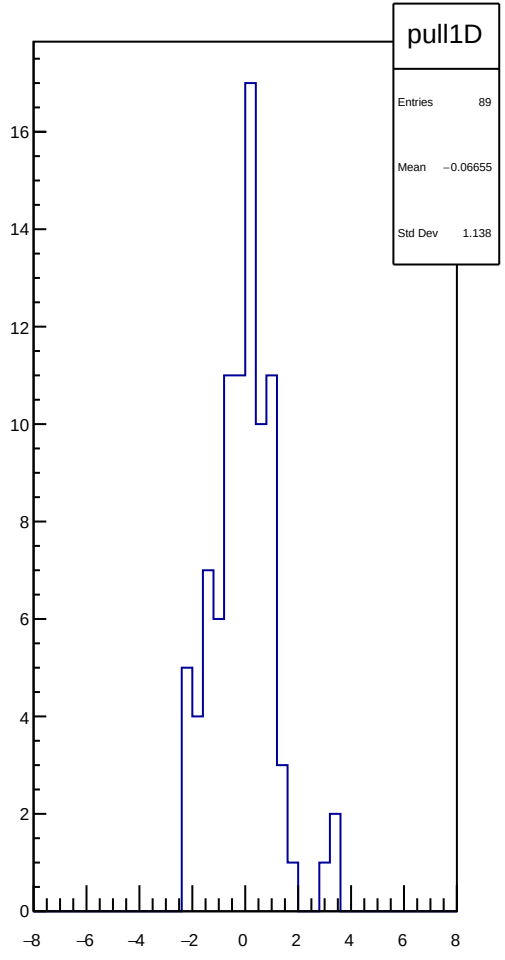

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.52 / 88
p0 0.03927 ± 0.06008
pull
Entries 89
Mean −103.5
Std Dev 0
pull1D
Entries 89
Mean −0.03213
Std Dev 1.019

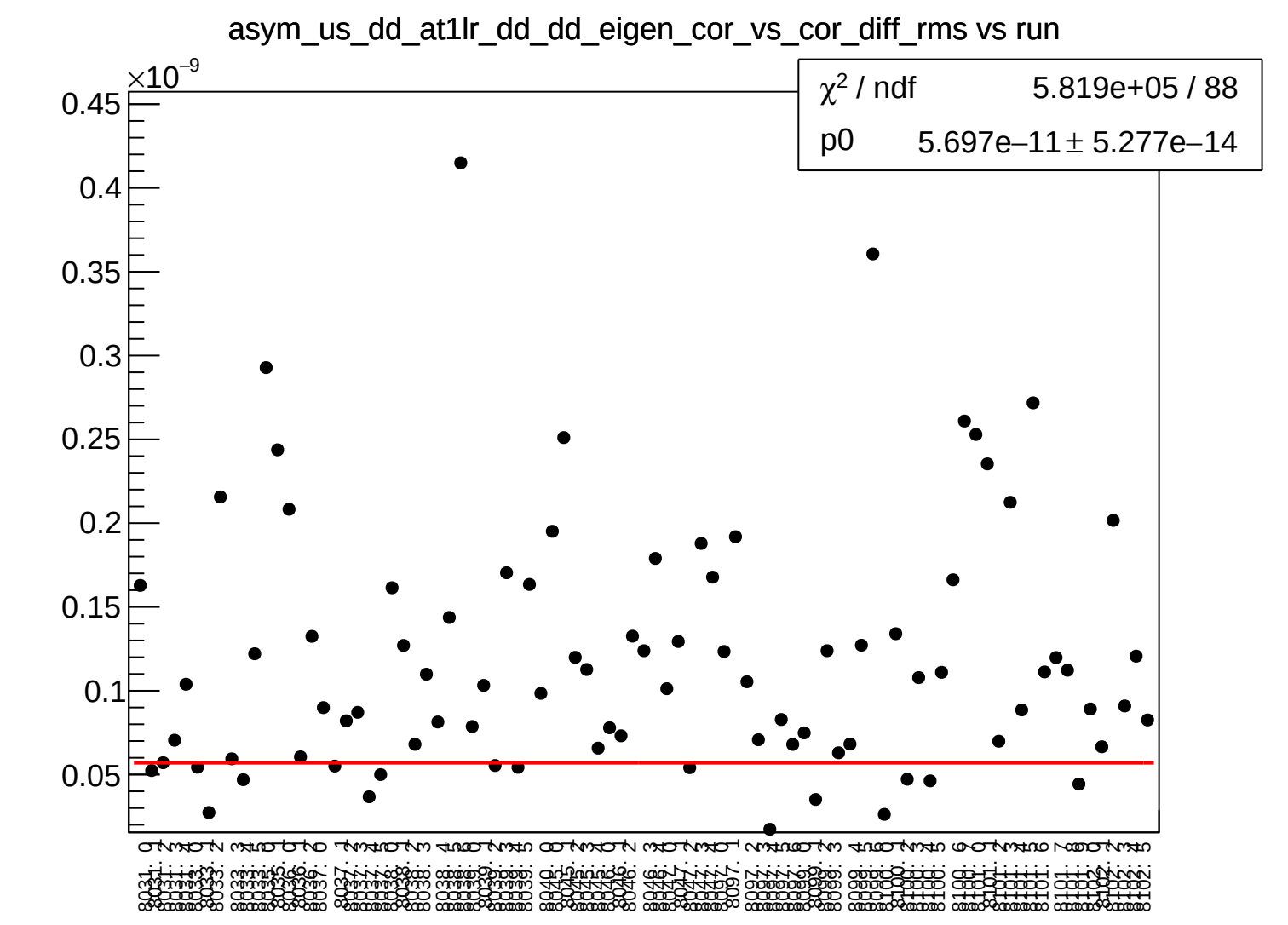

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.204e+05 / 88
p0 52.49 ± 0.04248
180
160
140
120
100
80
60
40
20

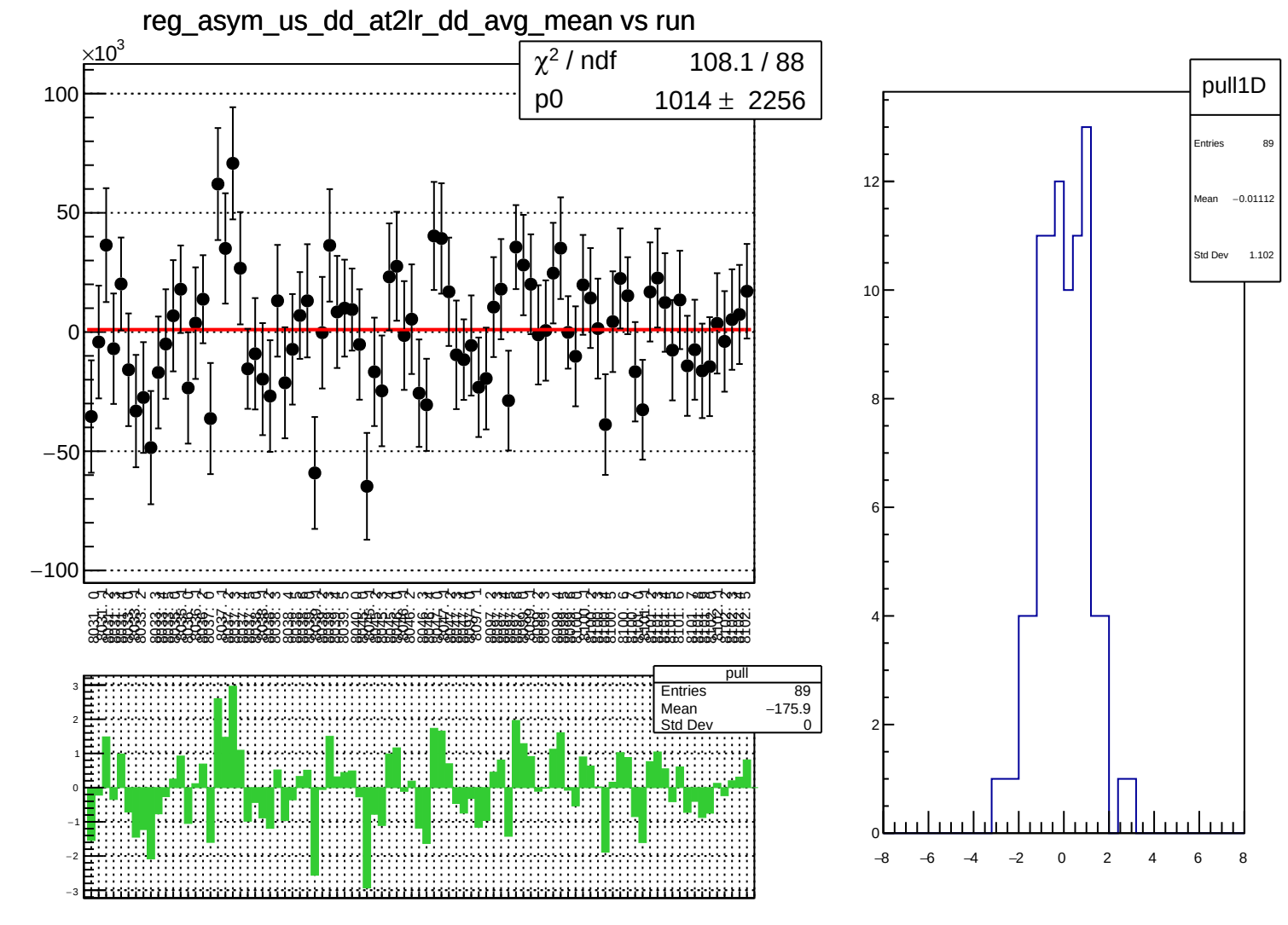

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.52 / 88
p0 0.03927 ± 0.06008
pull
Entries 89
Mean −103.5
Std Dev 0
pull1D
Entries 89
Mean −0.03213
Std Dev 1.019

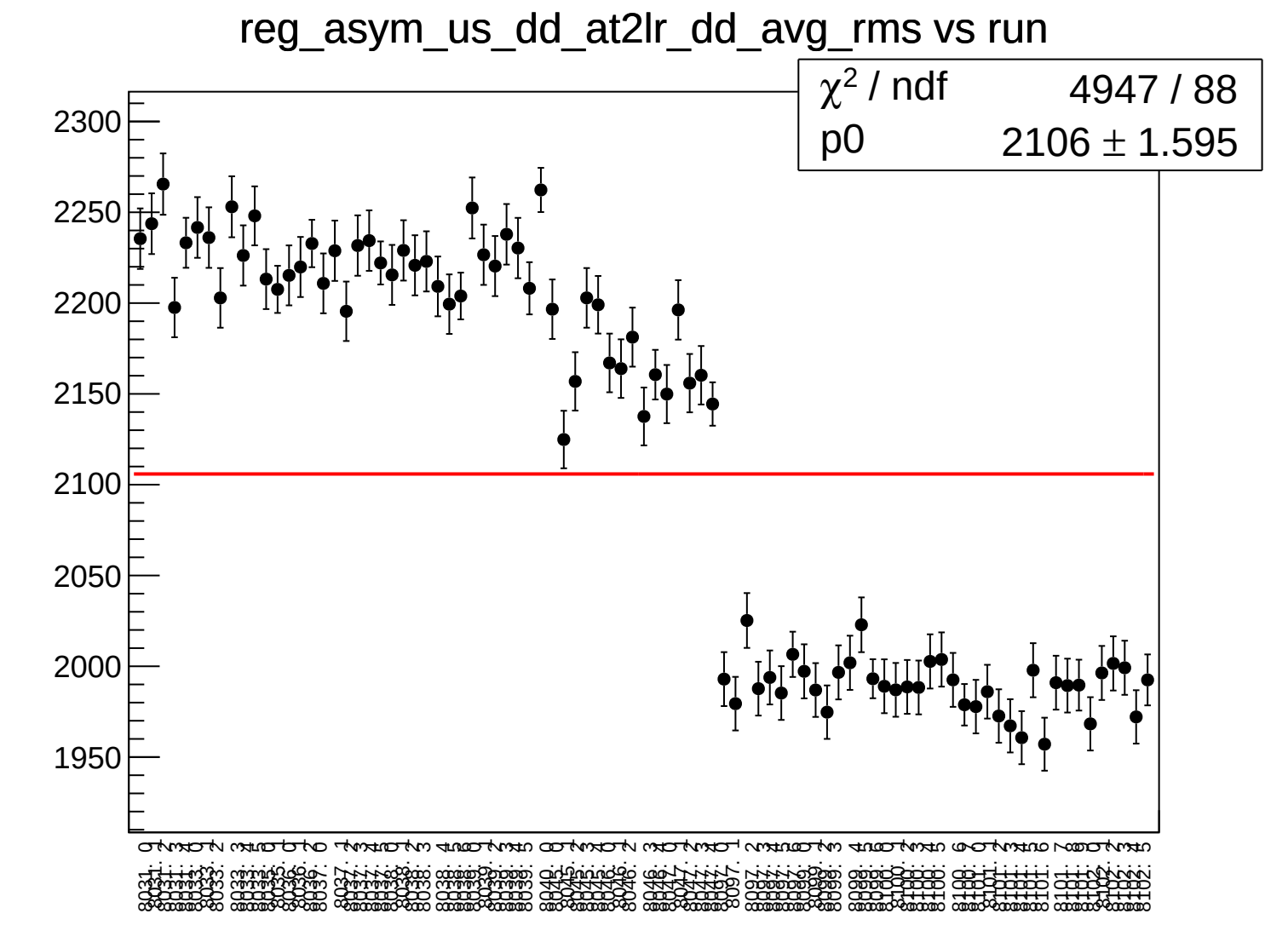

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.204e+05 / 88
p0 52.49 ± 0.04248
180
160
140
120
100
80
60
40
20

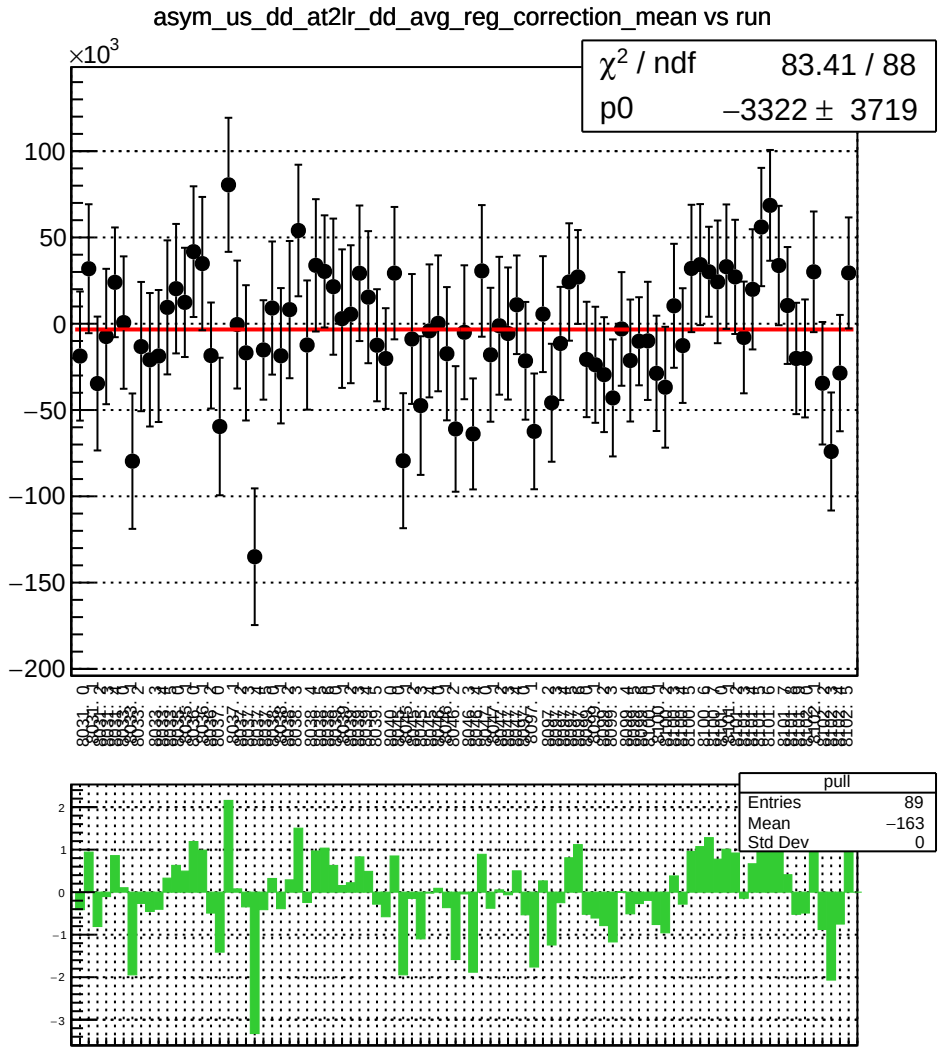

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 115.7 / 88
p0 −9.846e−14 ± 7.463e−14
pull
Entries 89
Mean 58.04
Std Dev 29.17

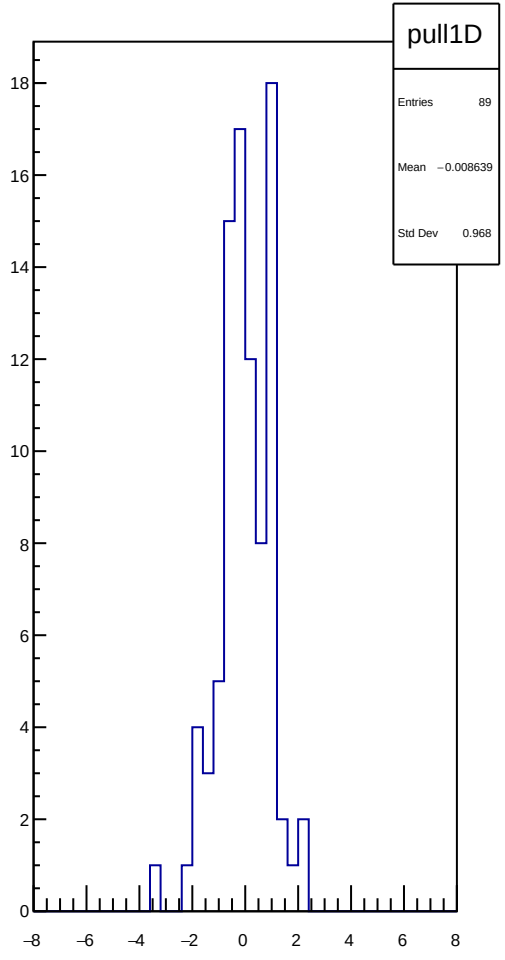

pull1D
Entries 89
Mean −0.06655
Std Dev 1.138

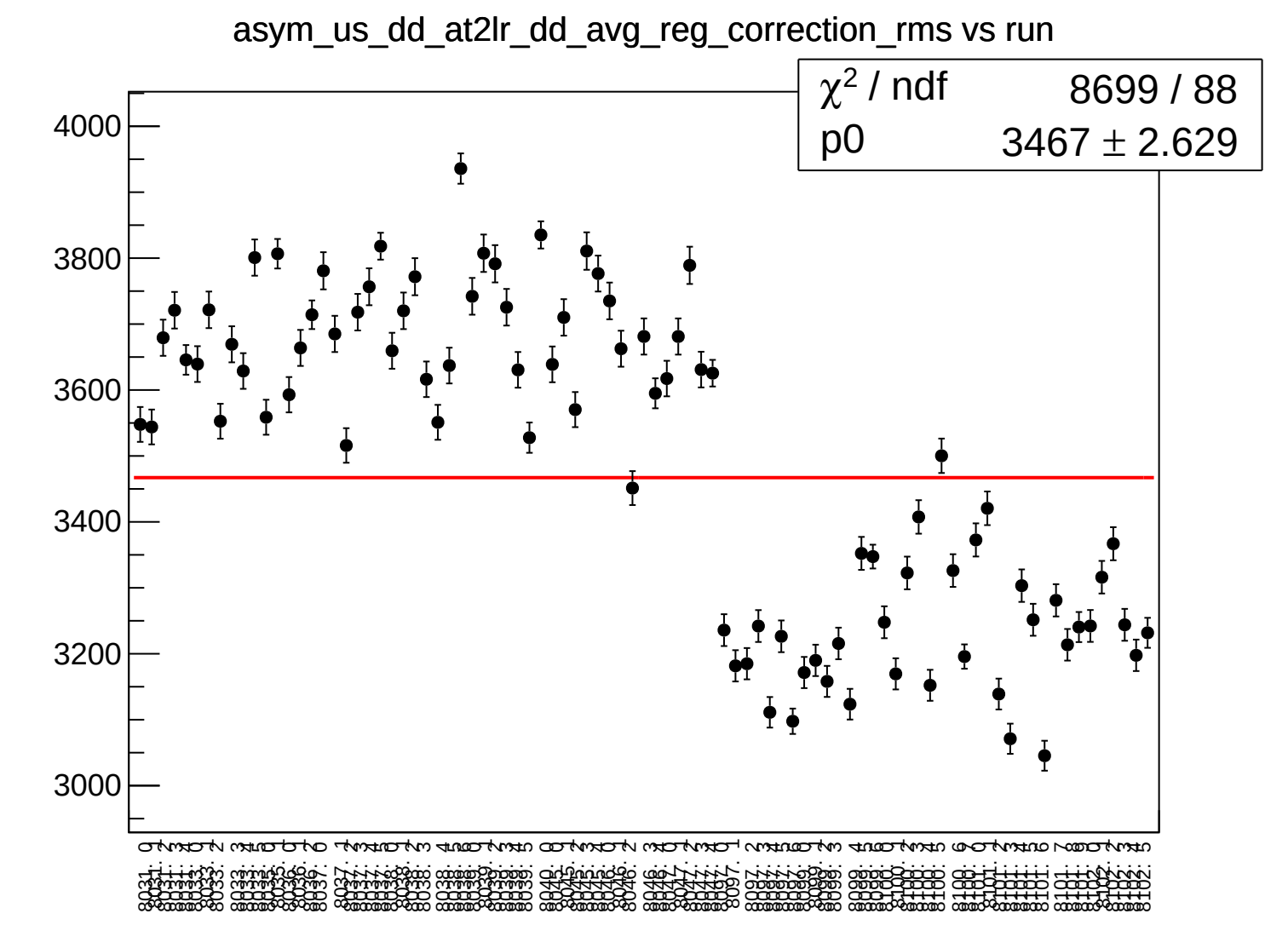

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.819e+05 / 88
p0 5.697e−11 ± 5.277e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

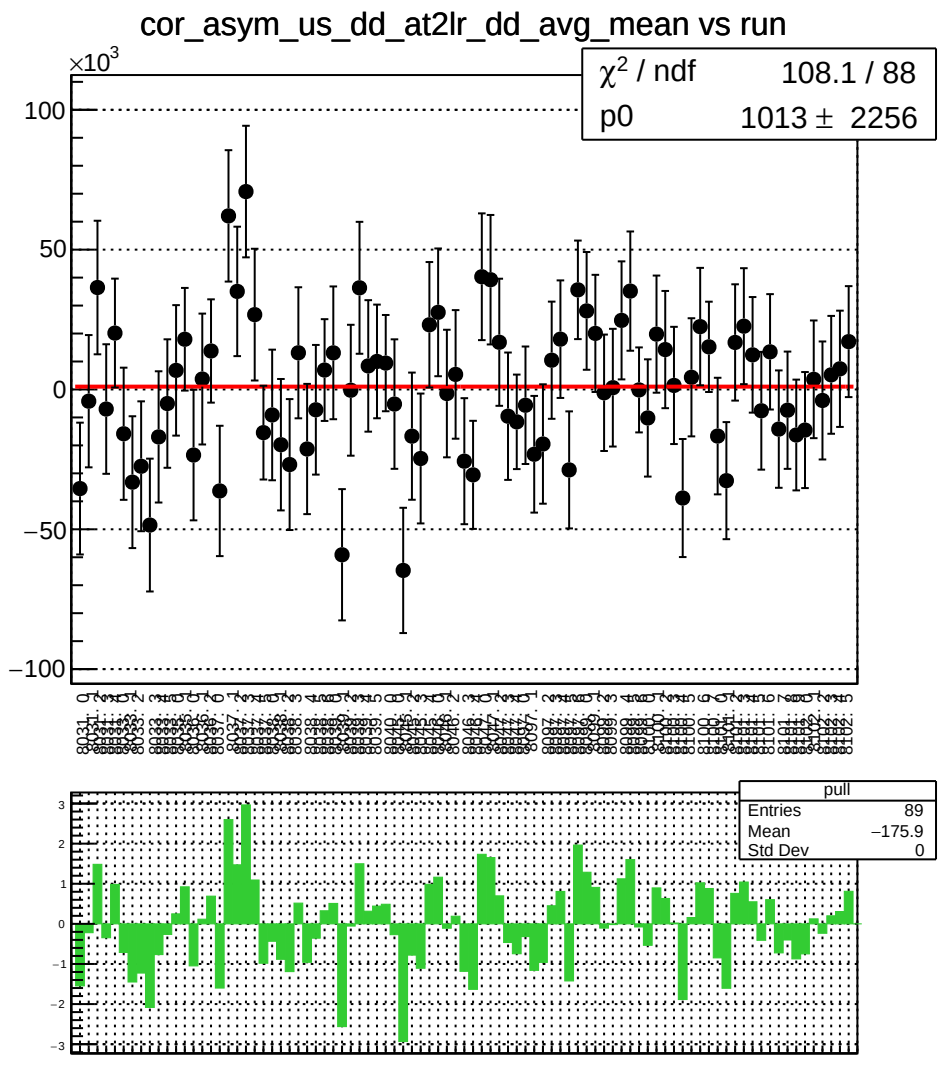

reg_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 108.1 / 88
p0 1014 ± 2256
100
50
0
−50
−100
pull
Entries 89
Mean −175.9
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.01112
Std Dev 1.102
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

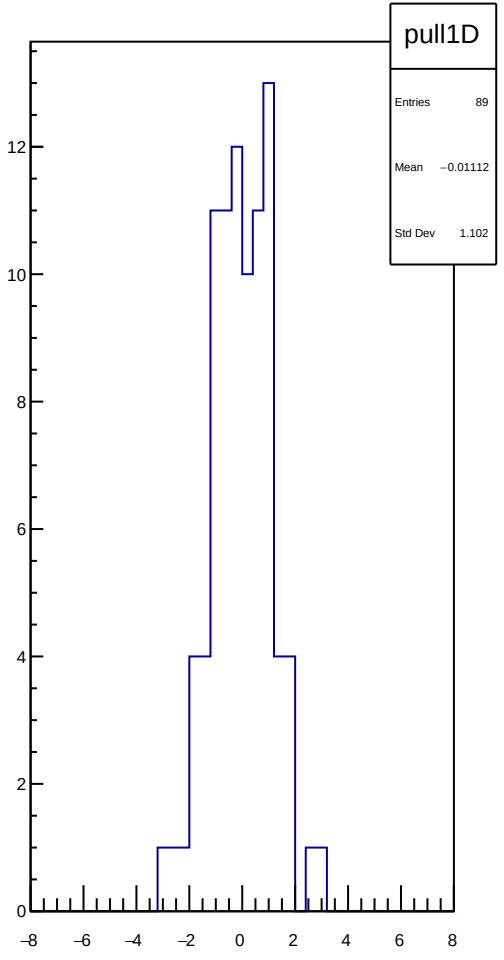

reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 4947 / 88
p0 2106 ± 1.595
2300
2250
2200
2150
2100
2050
2000
1950

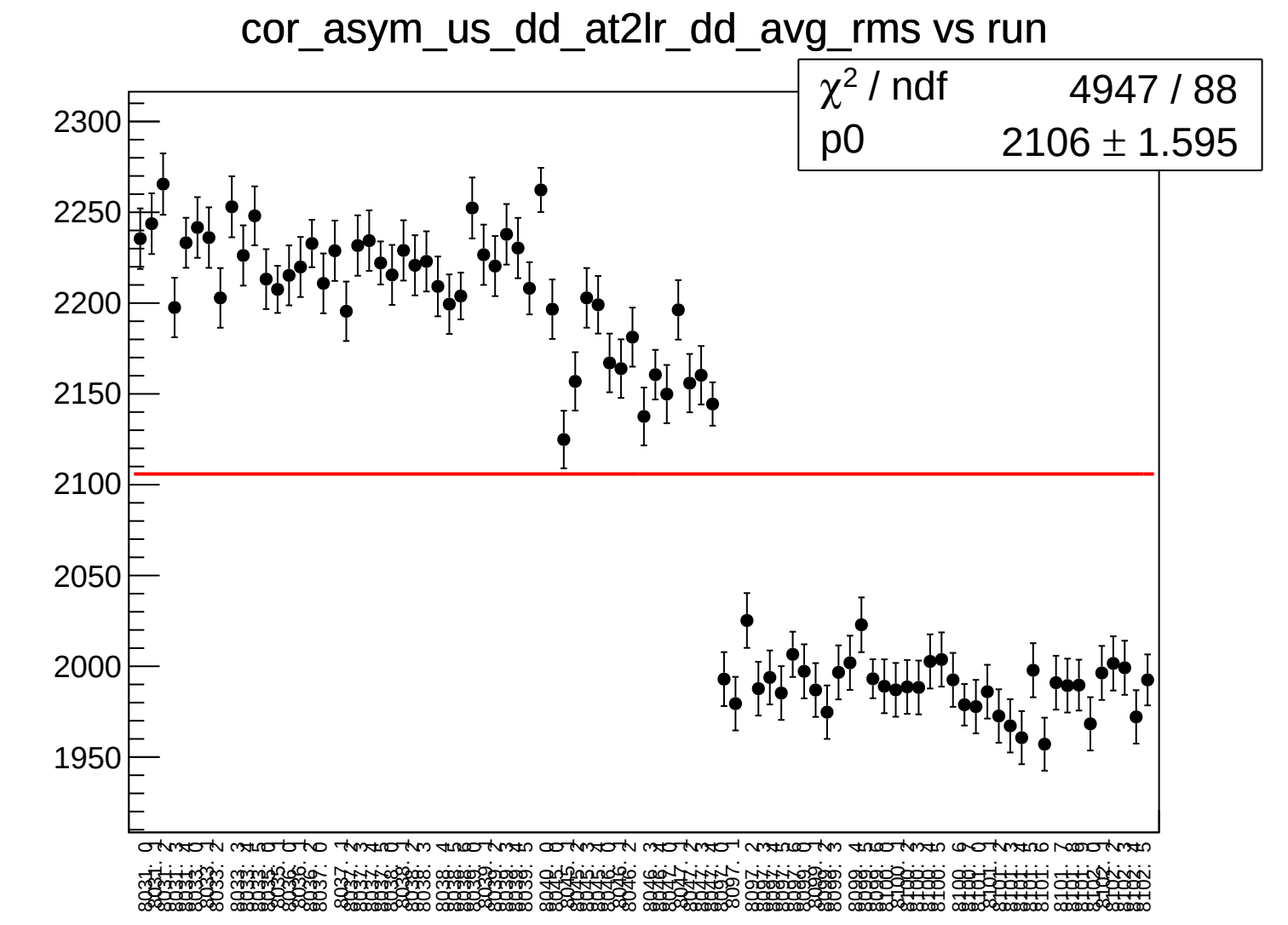

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 83.41 / 88
p0 −3322 ± 3719
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean −163
Std Dev 0
2
1
0
−1
−2
−3

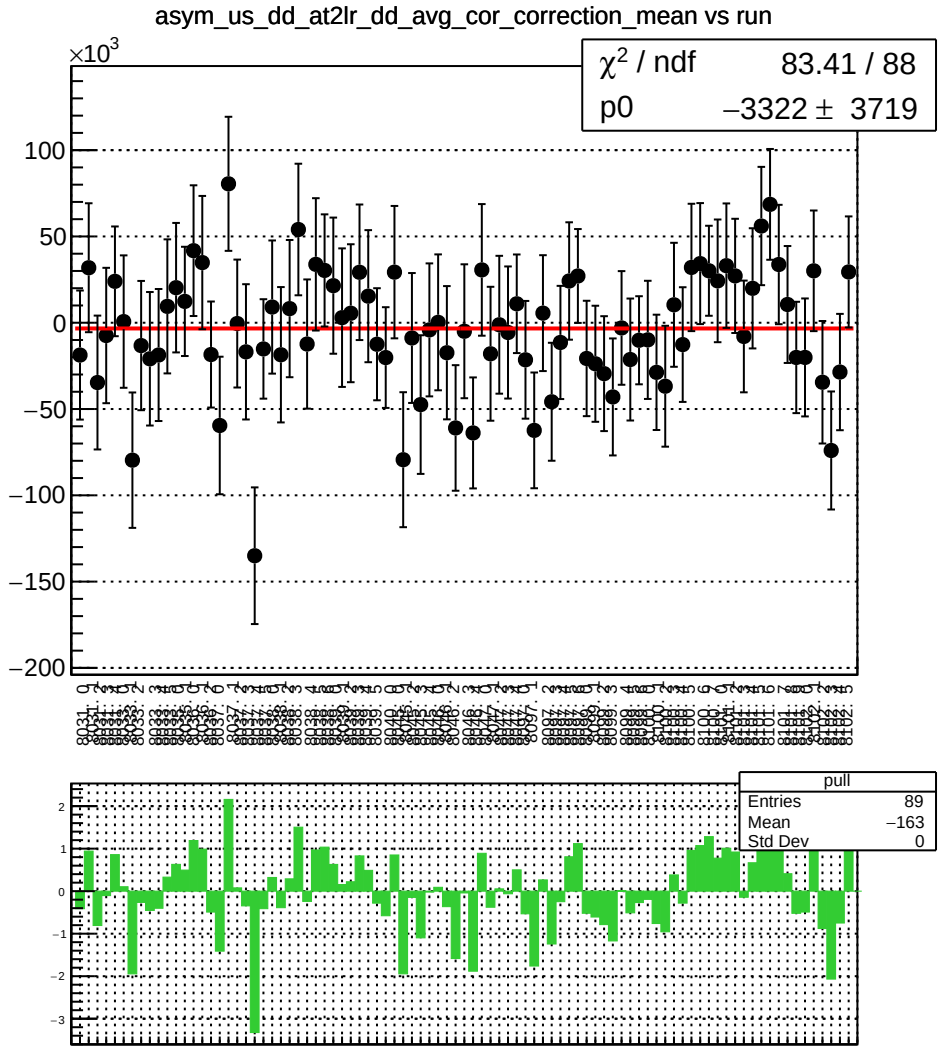

pull1D
Entries 89
Mean −0.008639
Std Dev 0.968
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

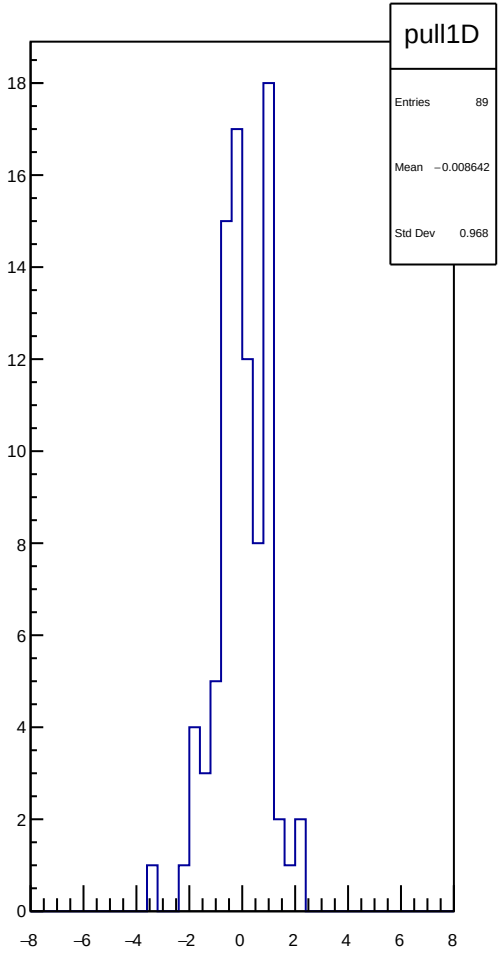

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ² / ndf 8699 / 88
p0 3467 ± 2.629
4000
3800
3600
3400
3200
3000

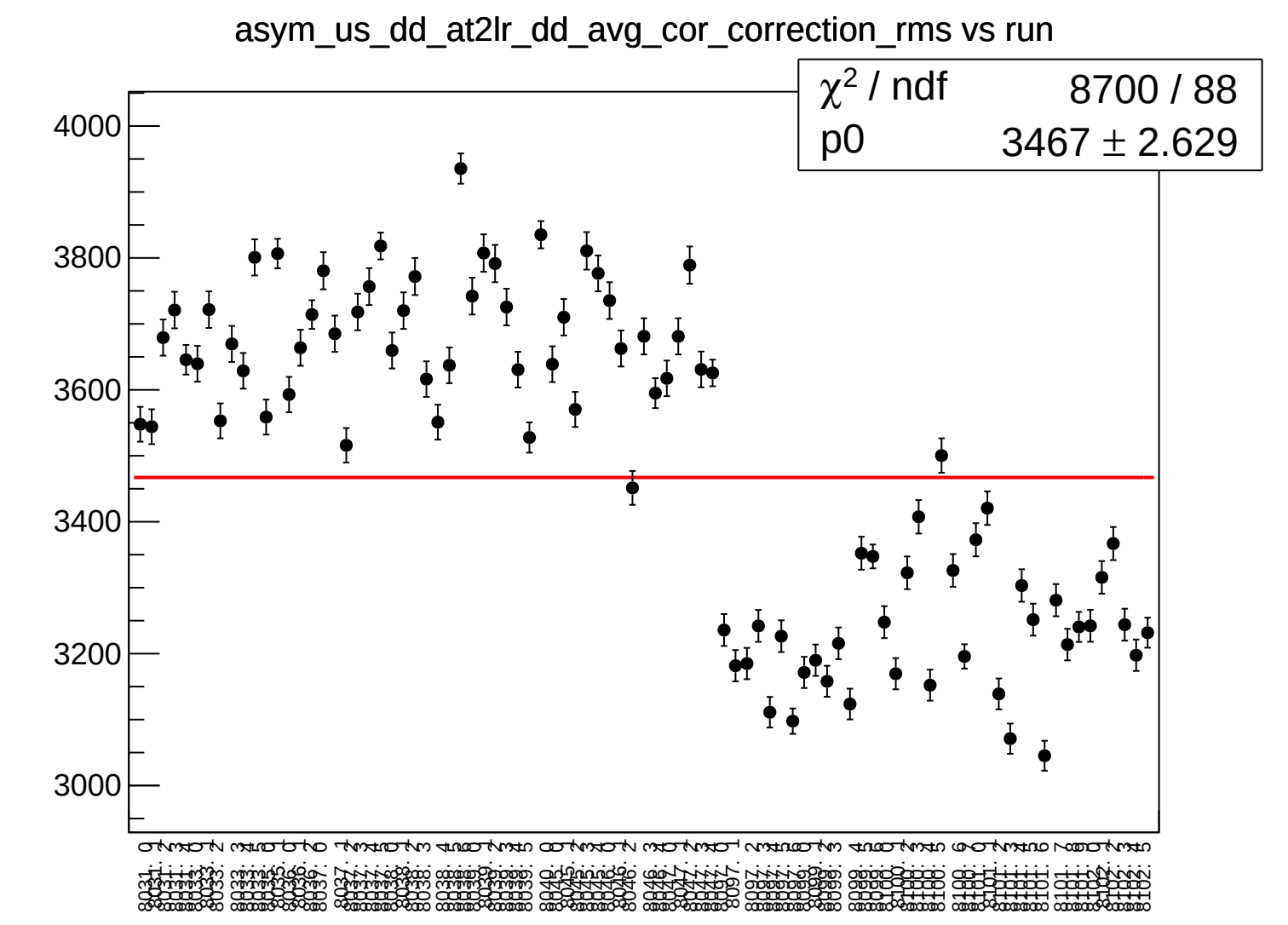

cor_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 108.1 / 88
p0 1013 ± 2256
100
50
0
−50
−100
pull
Entries 89
Mean −175.9
Std Dev 0
3
2
1
0
−1
−2
−3

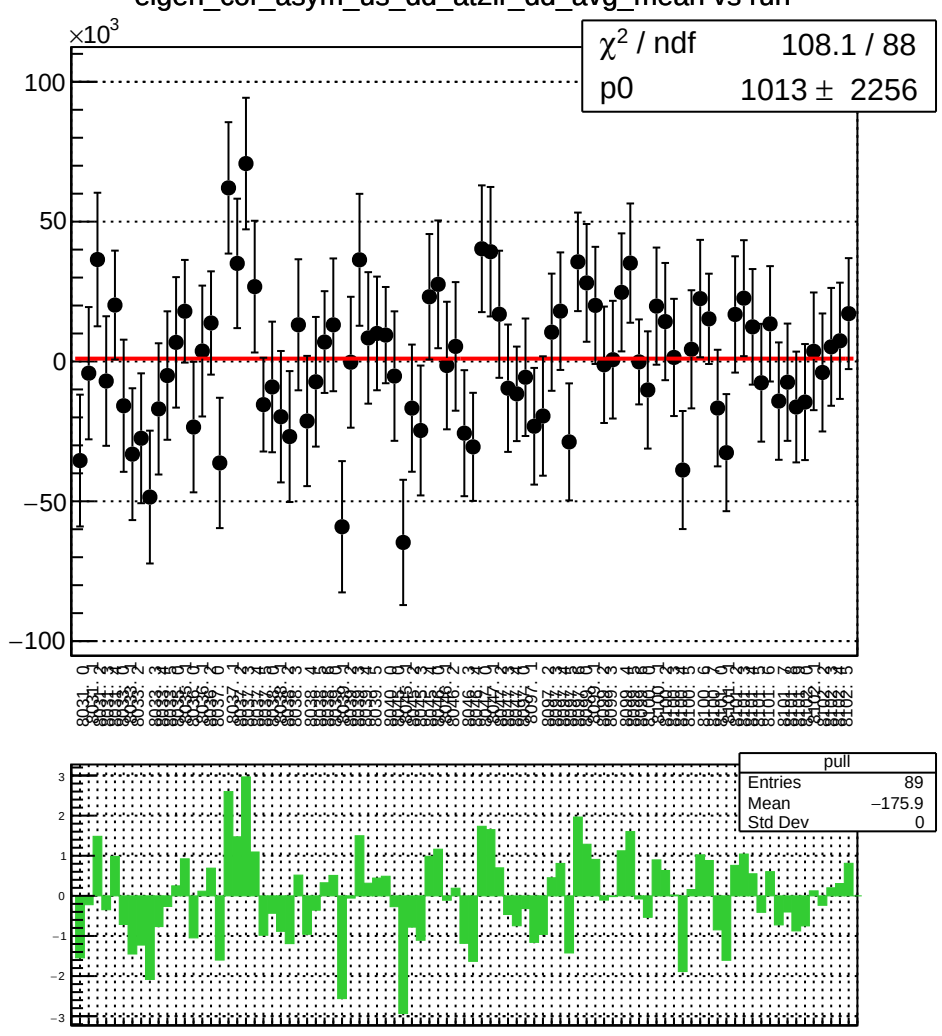

pull1D
Entries 89
Mean −0.01112
Std Dev 1.102
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

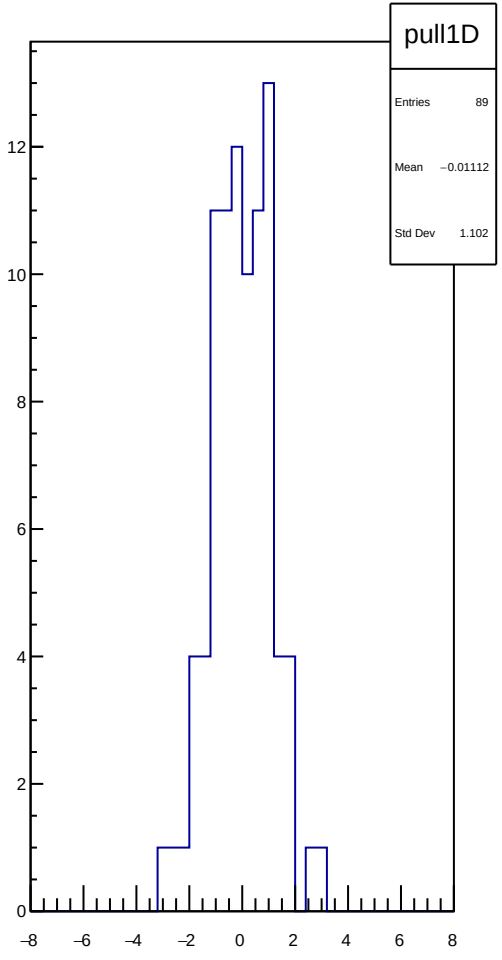

cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 4947 / 88
p0 2106 ± 1.595
2300
2250
2200
2150
2100
2050
2000
1950

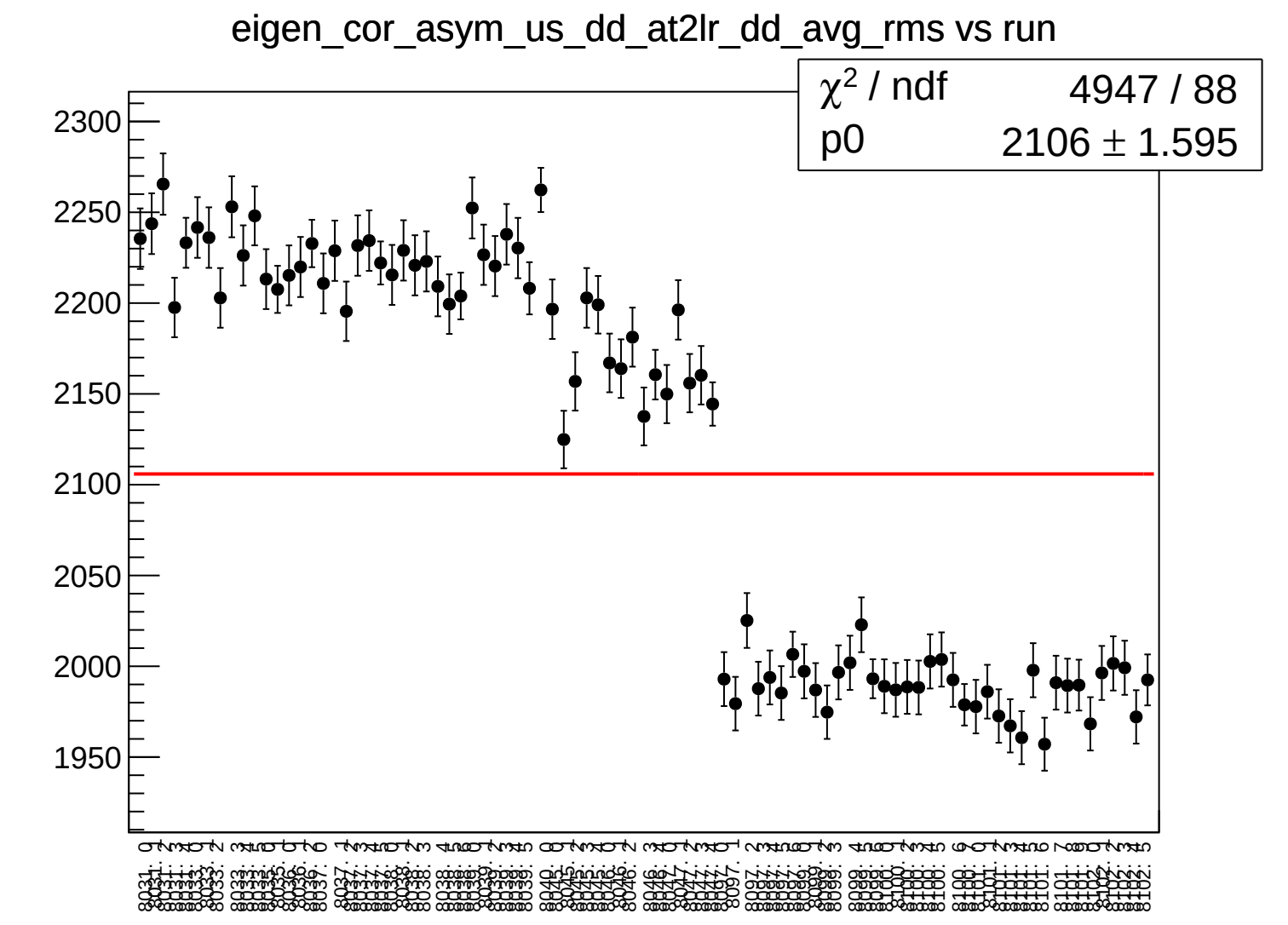

asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 83.41 / 88
p0 −3322 ± 3719
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean −163
Std Dev 0
2
1
0
−1
−2
−3

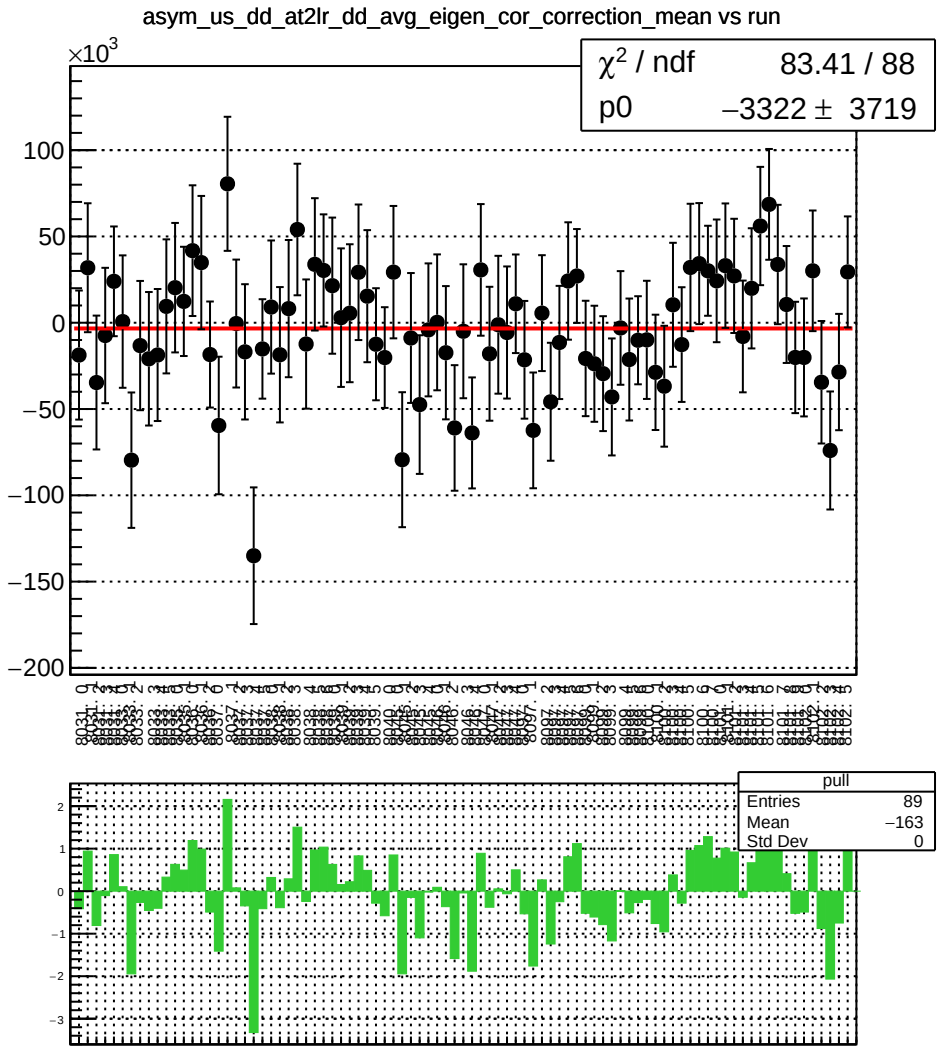

pull1D
Entries 89
Mean −0.008642
Std Dev 0.968
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

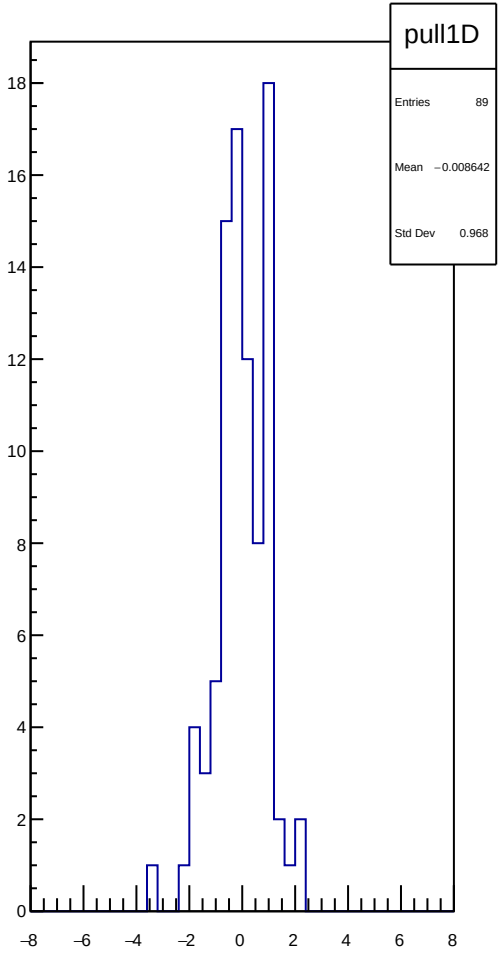

asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ² / ndf 8700 / 88
p0 3467 ± 2.629
4000
3800
3600
3400
3200
3000

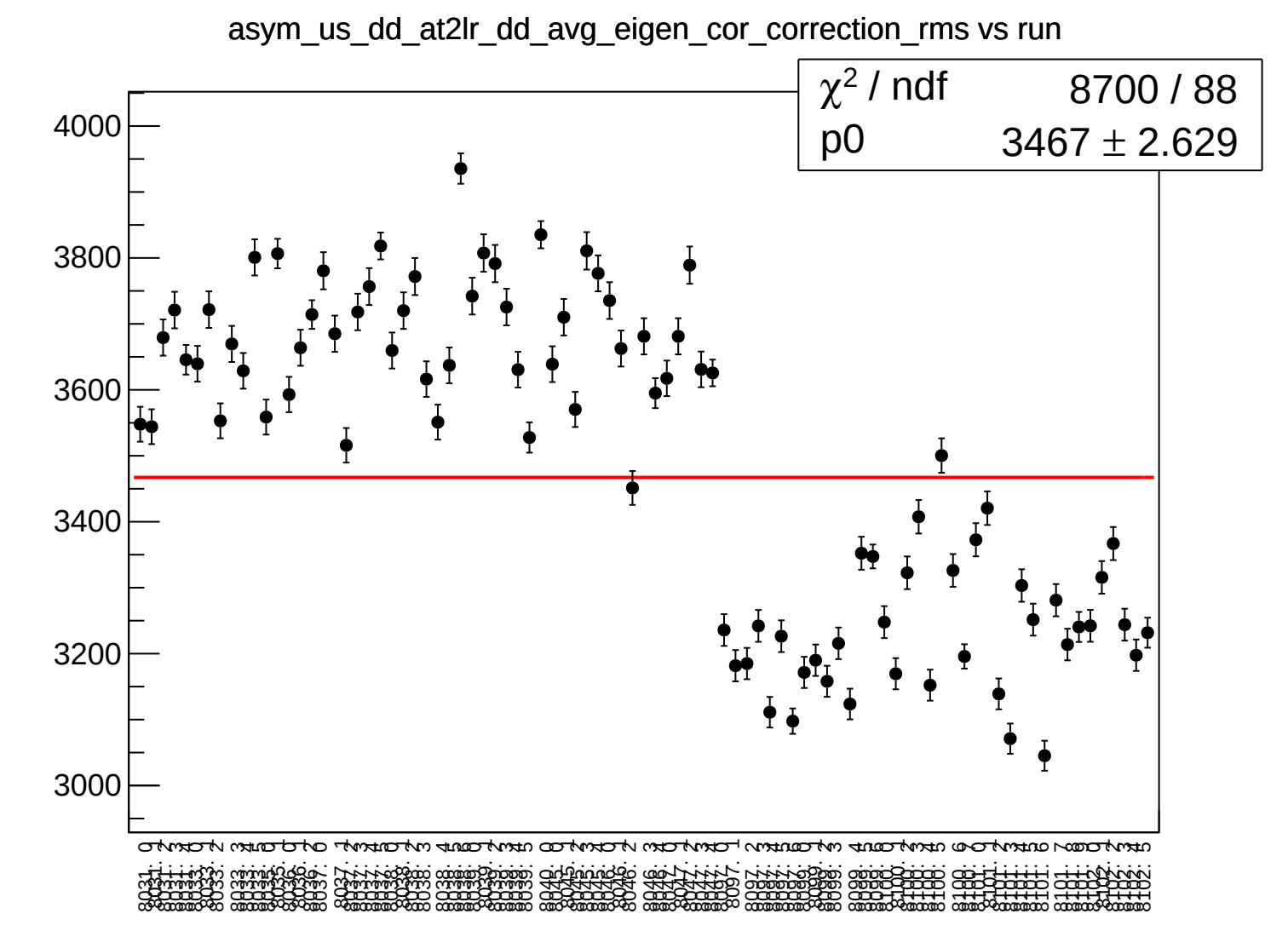

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 108.1 / 88
p0 1013 ± 2256
100
50
0
−50
−100
pull
Entries 89
Mean −175.9
Std Dev 0
3
2
1
0
−1
−2
−3

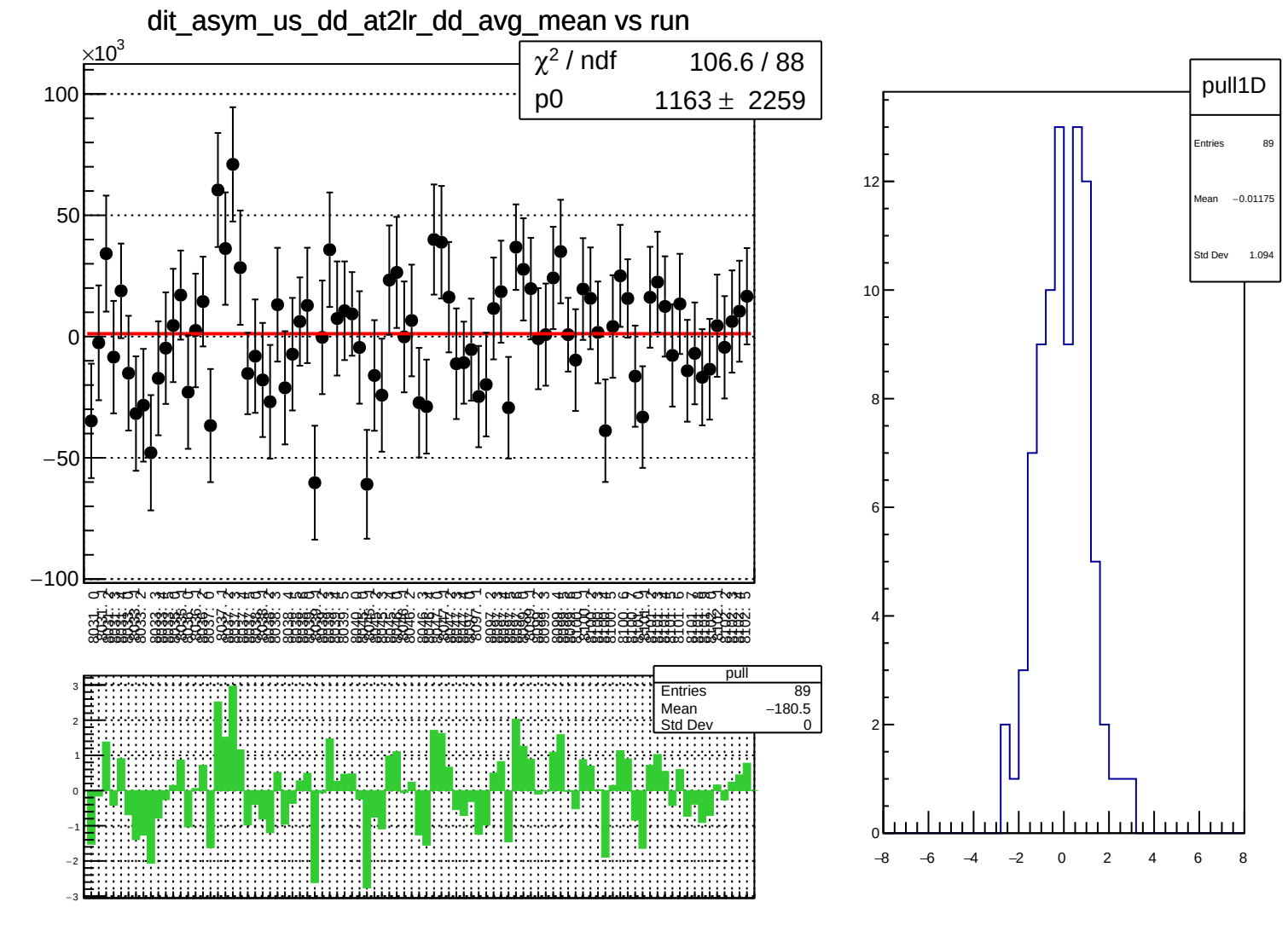

pull1D
Entries 89
Mean −0.01112
Std Dev 1.102
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

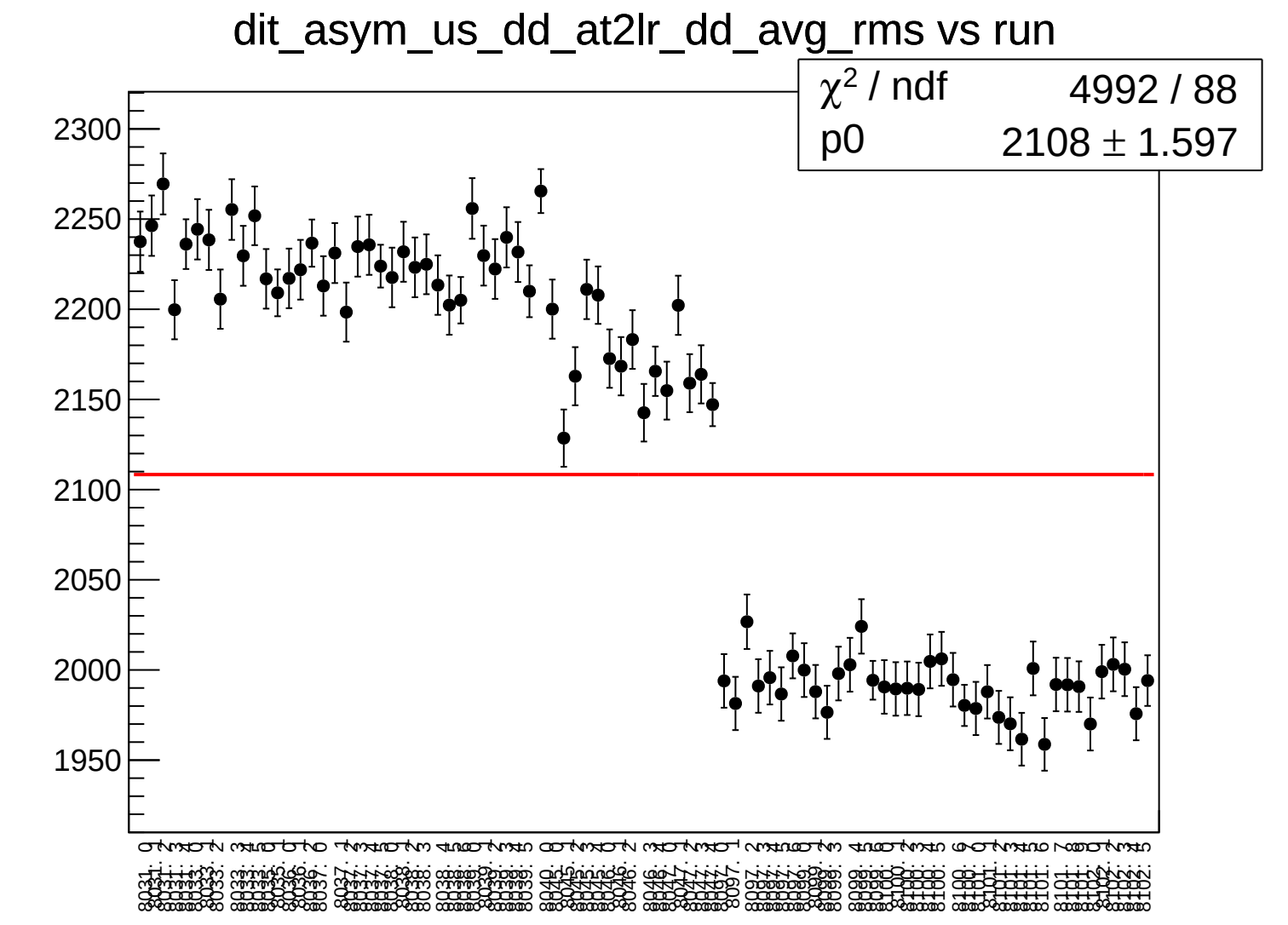

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 4947 / 88
p0 2106 ± 1.595
2300
2250
2200
2150
2100
2050
2000
1950

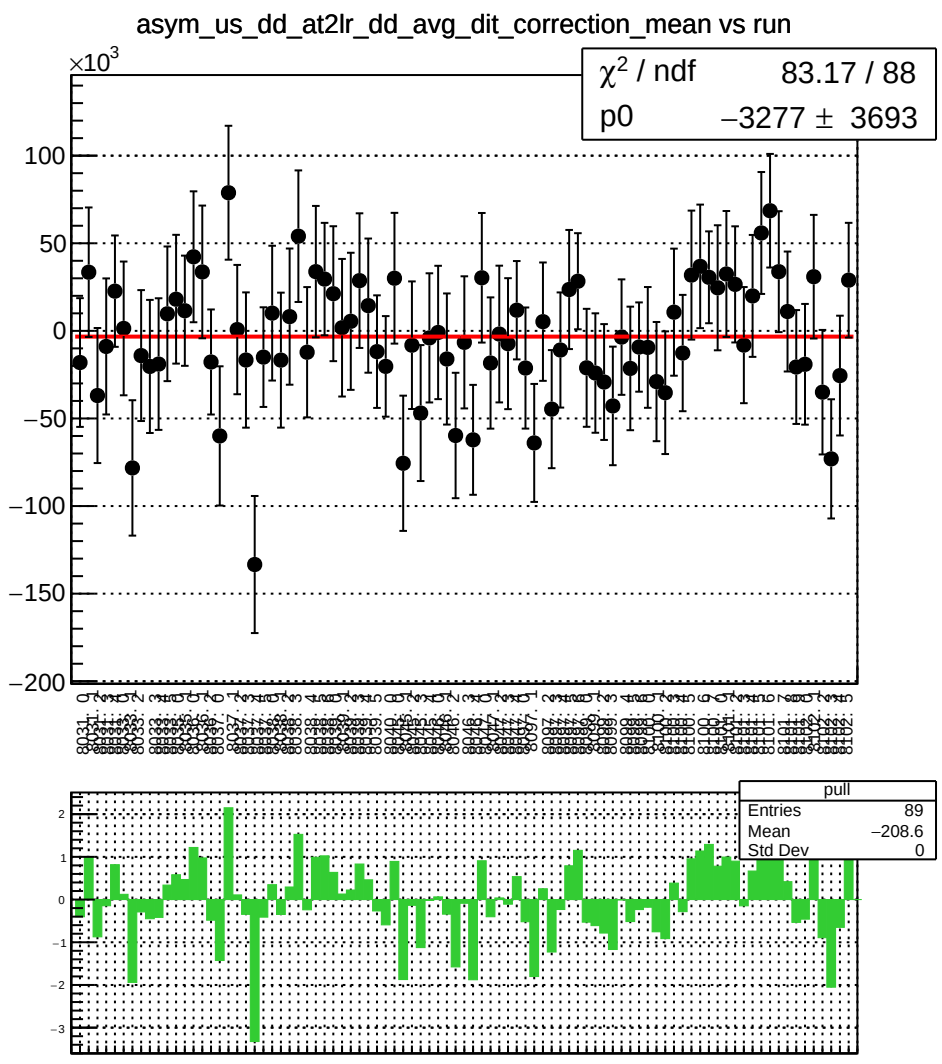

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 83.41 / 88
p0 −3322 ± 3719
pull
Entries 89
Mean −163
Std Dev 0

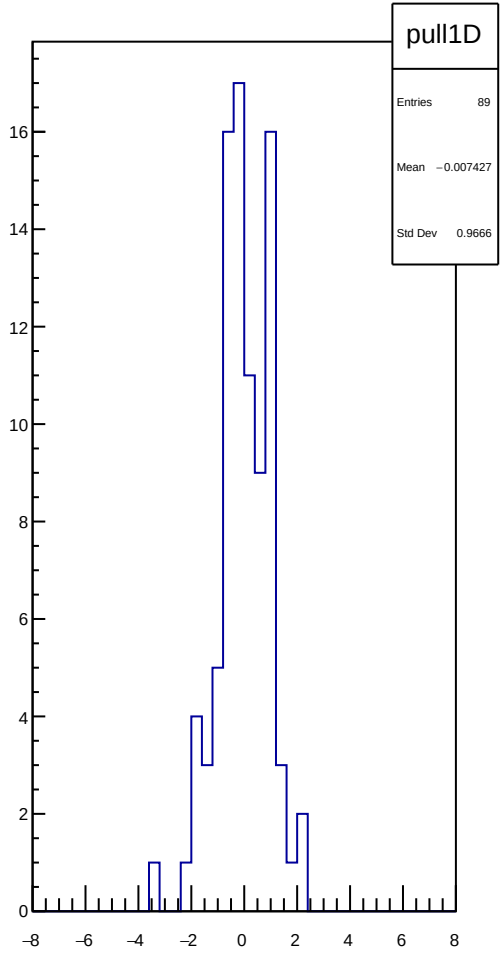

pull1D
Entries 89
Mean −0.008642
Std Dev 0.968

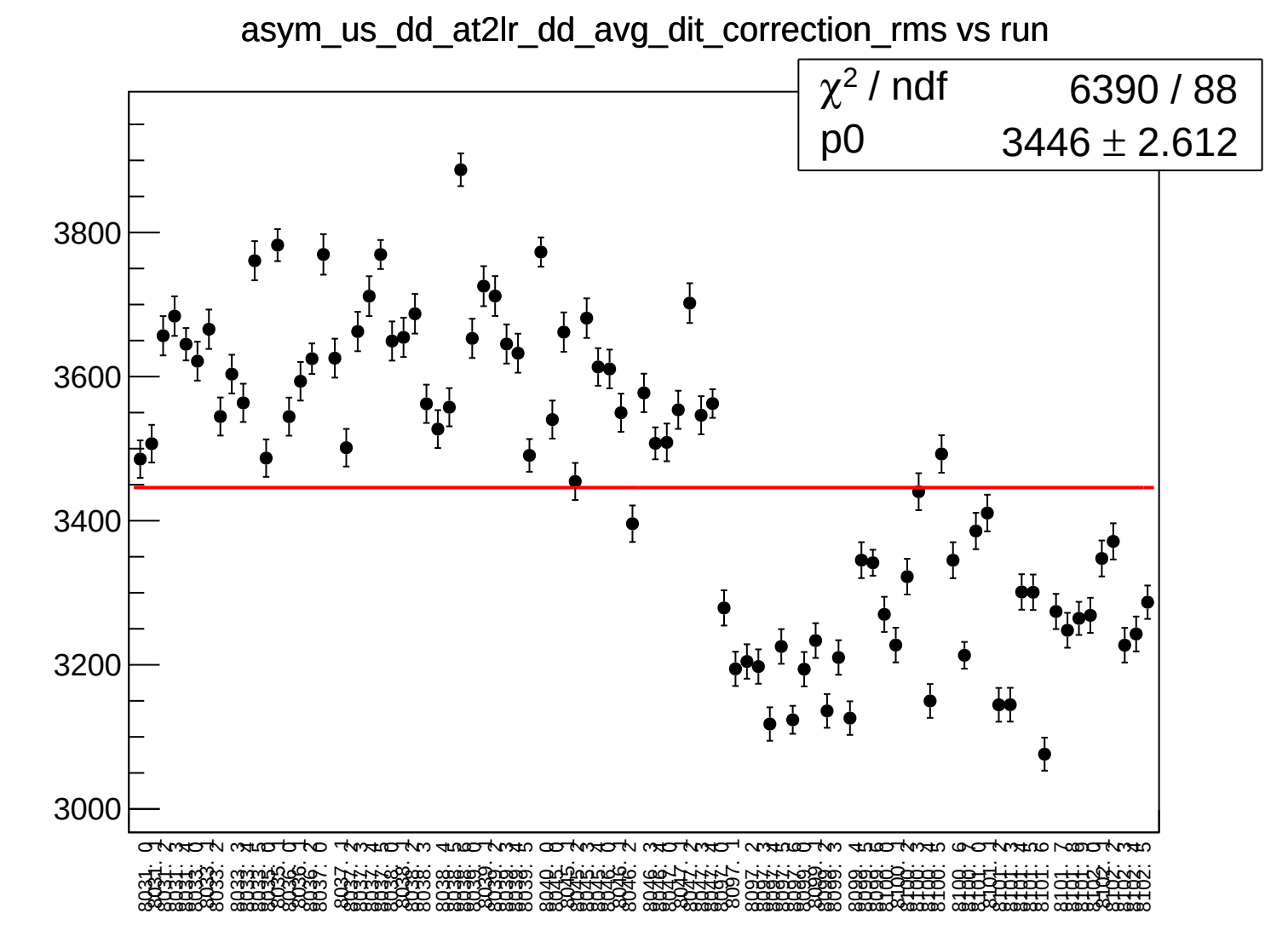

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 8700 / 88
p0 3467 ± 2.629
4000
3800
3600
3400
3200
3000

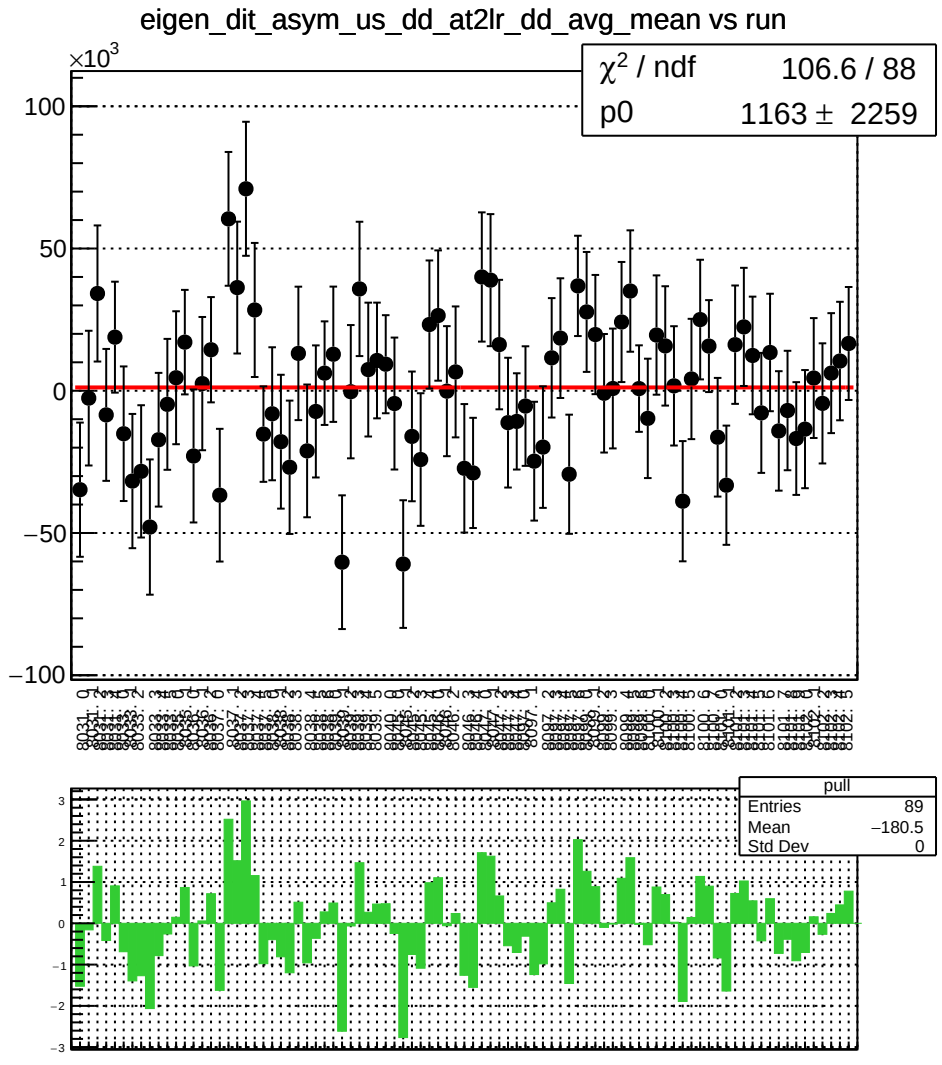

dit_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 106.6 / 88
p0 1163 ± 2259
100
50
0
−50
−100
pull
Entries 89
Mean −180.5
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.01175
Std Dev 1.094
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

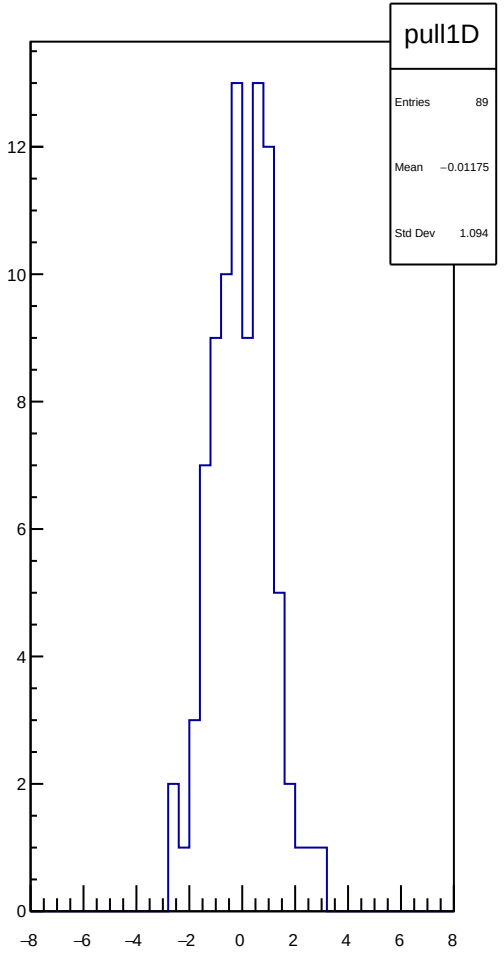

dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 4992 / 88
p0 2108 ± 1.597
2300
2250
2200
2150
2100
2050
2000
1950

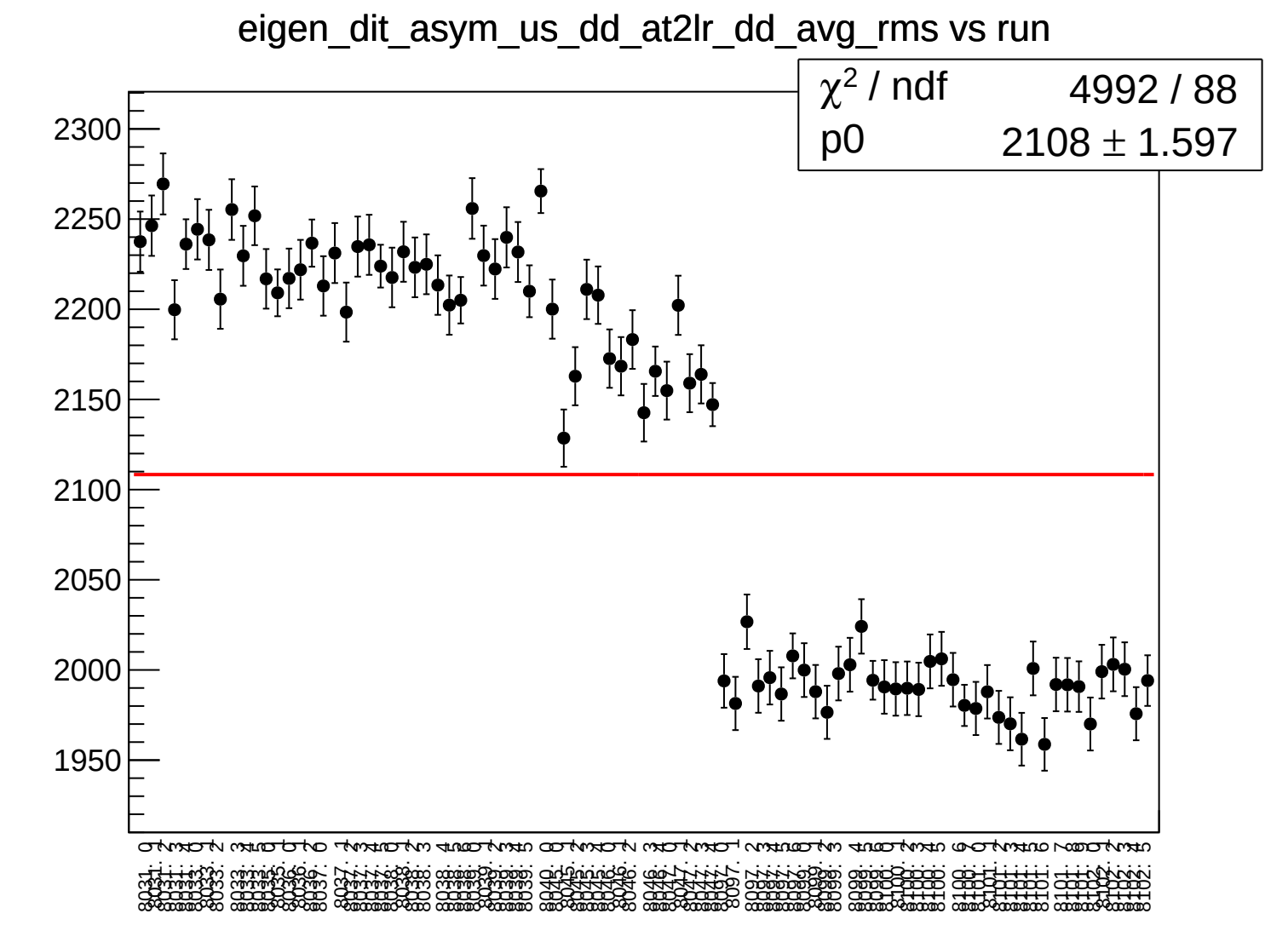

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 83.17 / 88
p0 −3277 ± 3693
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean −208.6
Std Dev 0
2
1
0
−1
−2
−3

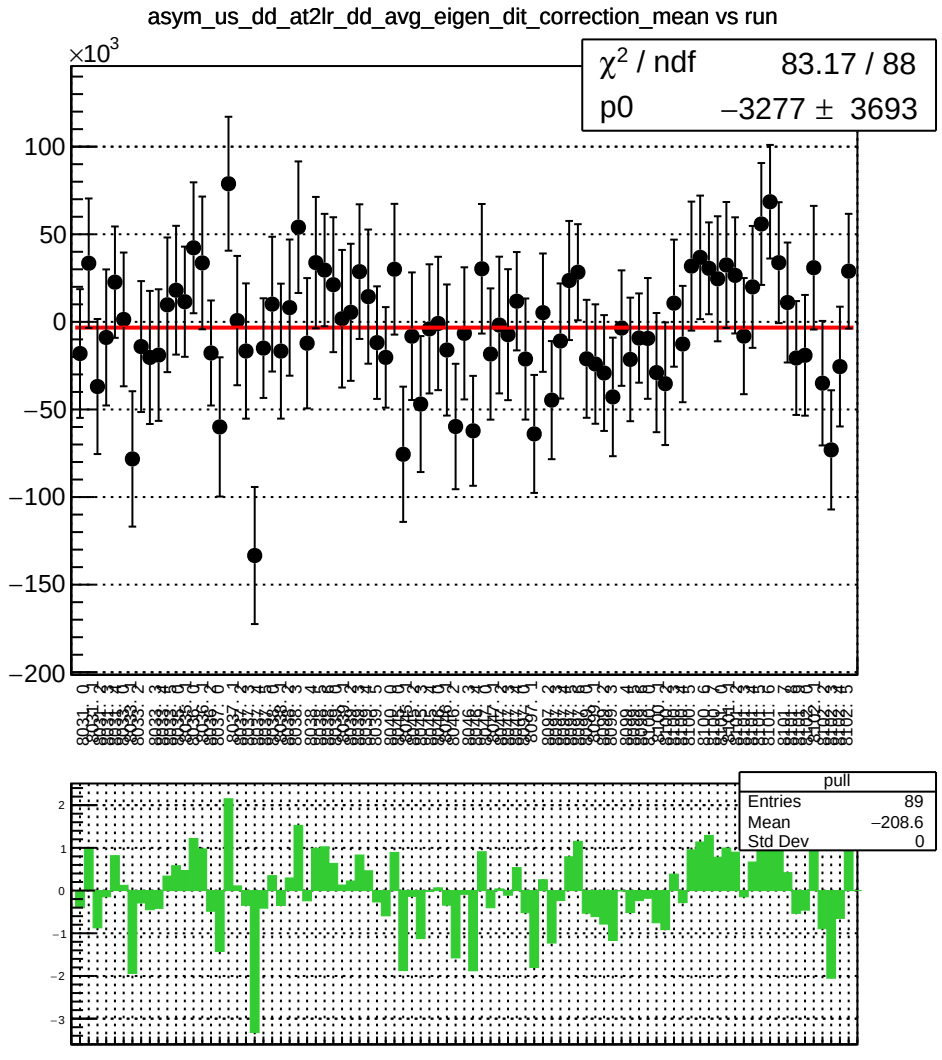

pull1D
Entries 89
Mean −0.007427
Std Dev 0.9666
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

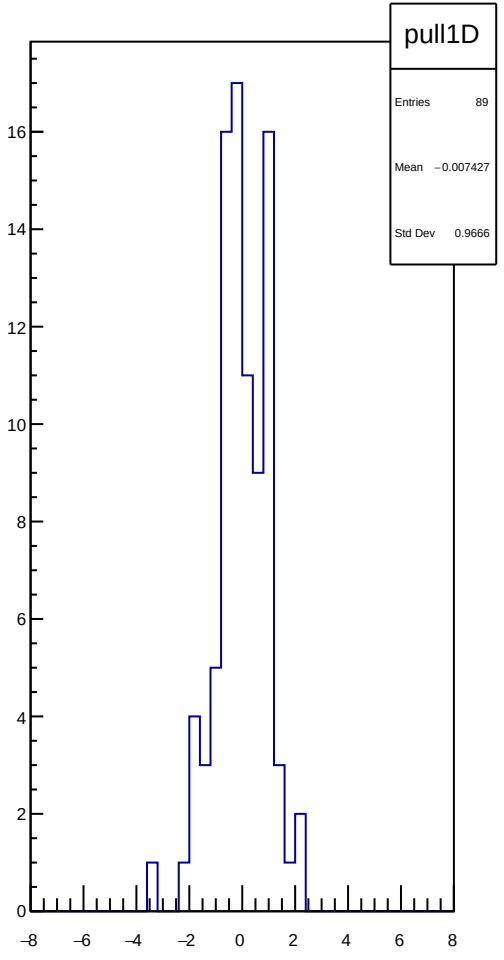

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 6390 / 88
p0 3446 ± 2.612
3800
3600
3400
3200
3000


eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 106.6 / 88
p0 1163 ± 2259
100
50
0
−50
−100
pull
Entries 89
Mean −180.5
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 89
Mean −0.01175
Std Dev 1.094
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 4992 / 88
p0 2108 ± 1.597
2300
2250
2200
2150
2100
2050
2000
1950


asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 83.17 / 88
p0 −3277 ± 3693
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean −208.6
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 89
Mean −0.007427
Std Dev 0.9666
16
14
12
10
8
6
4
2
0
−8
−6
−4
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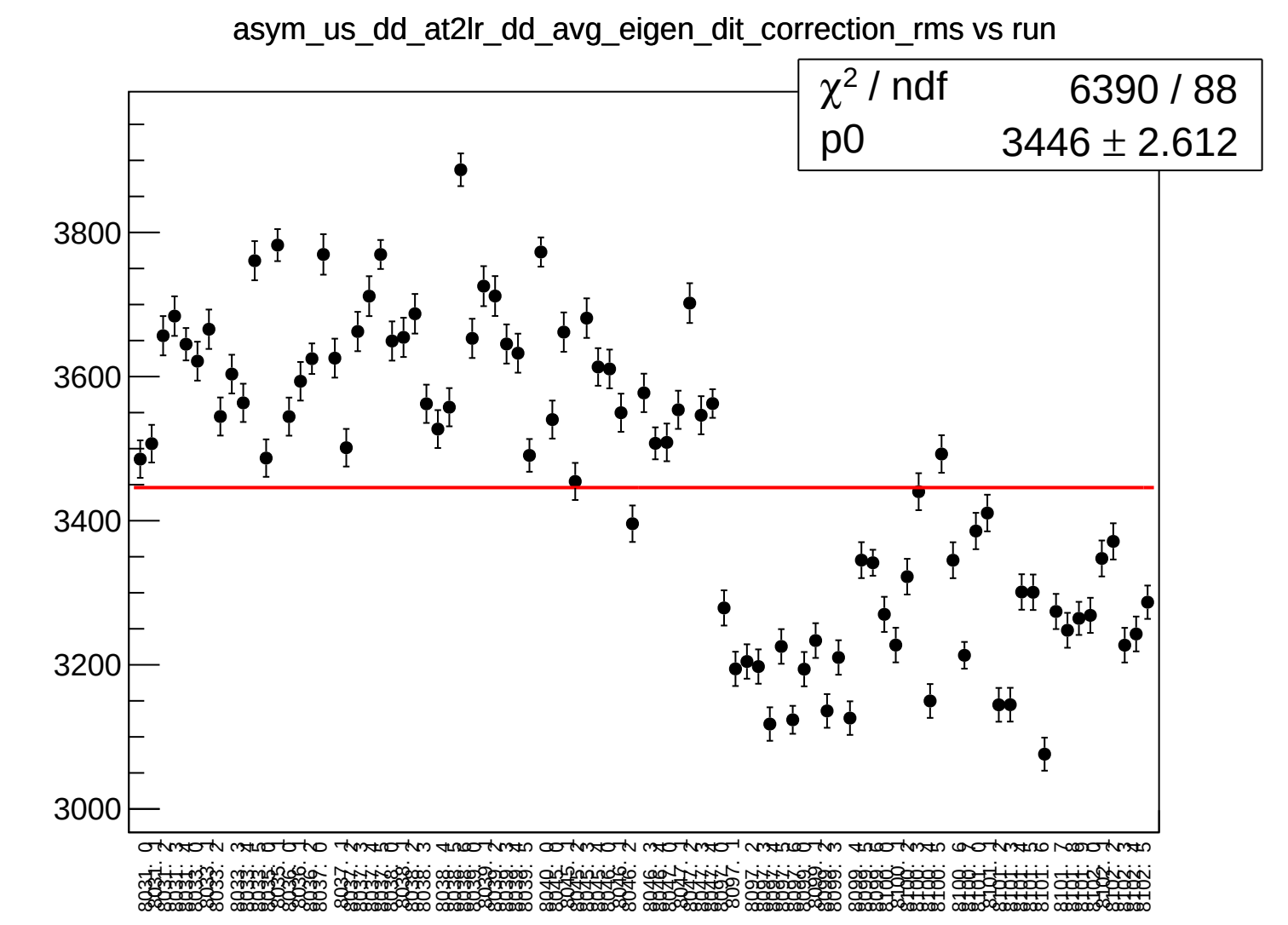
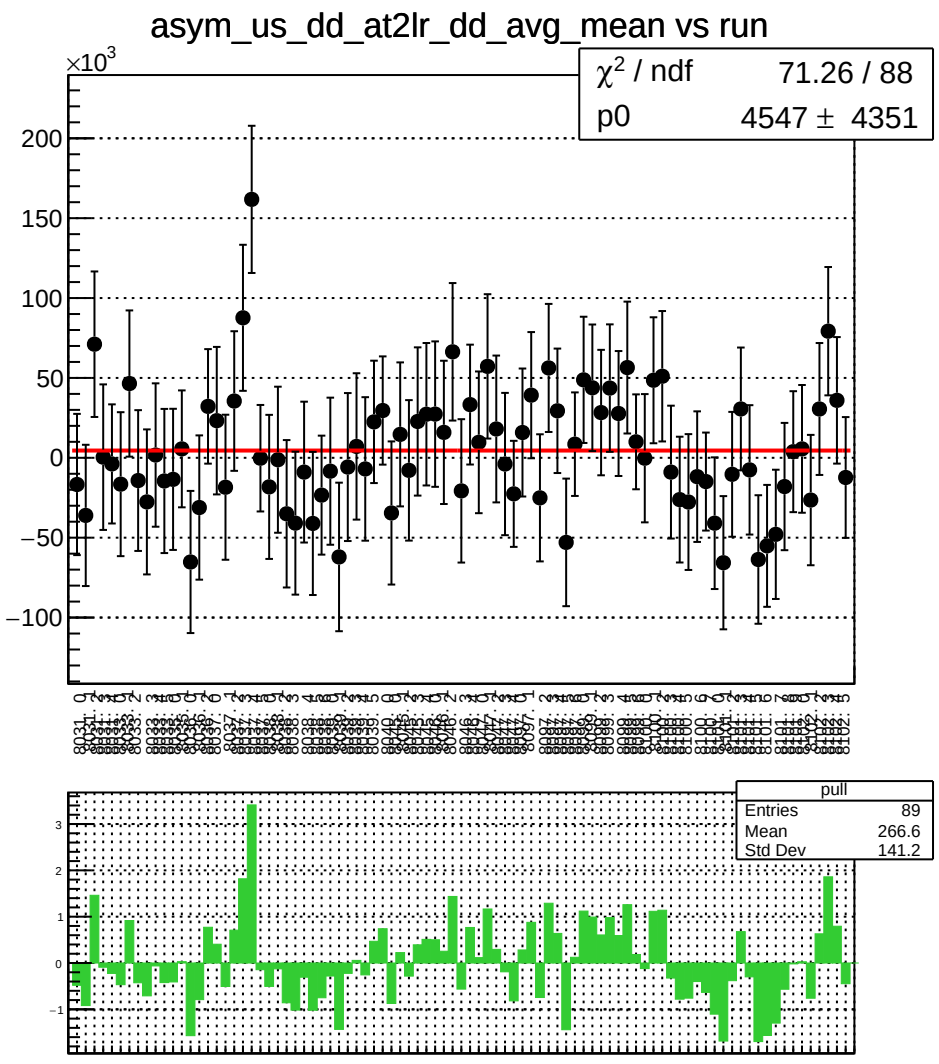
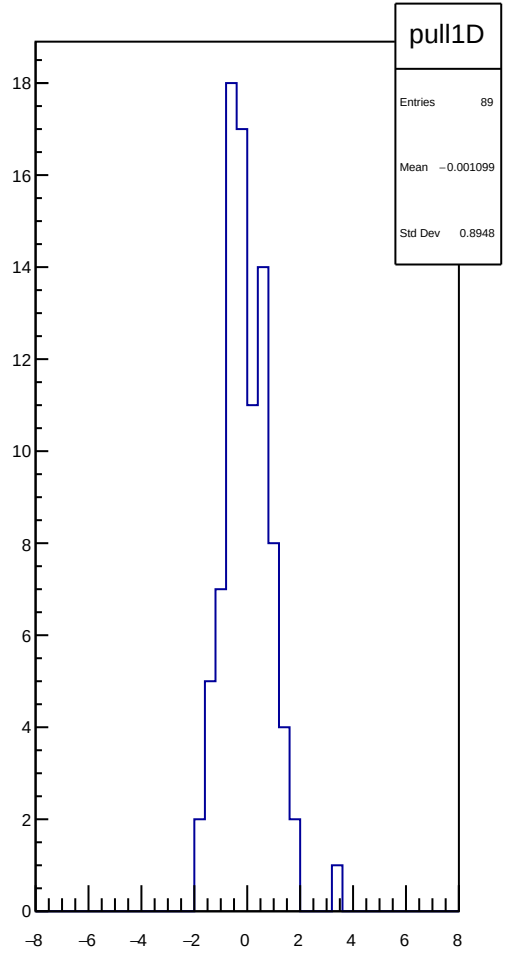
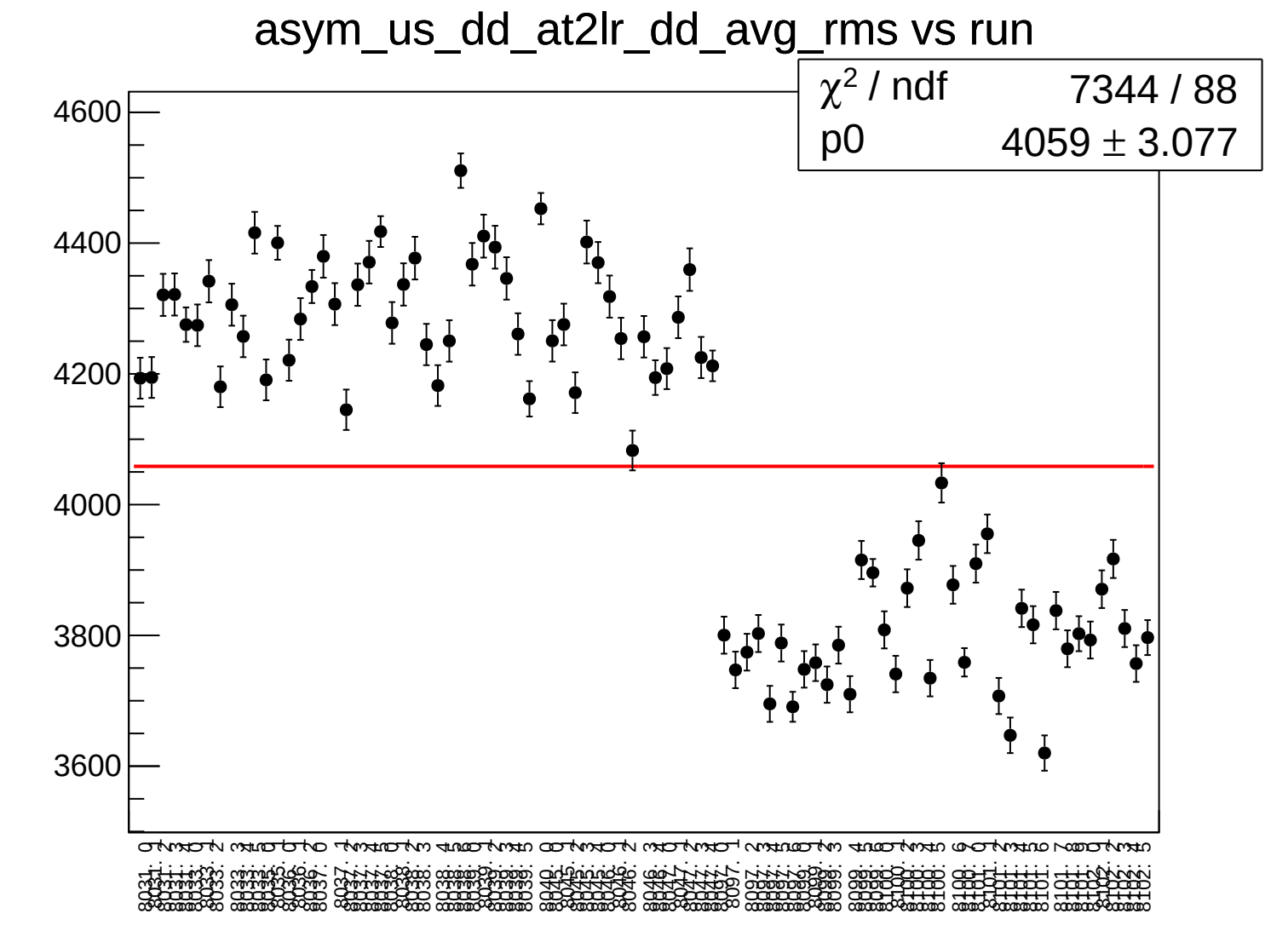
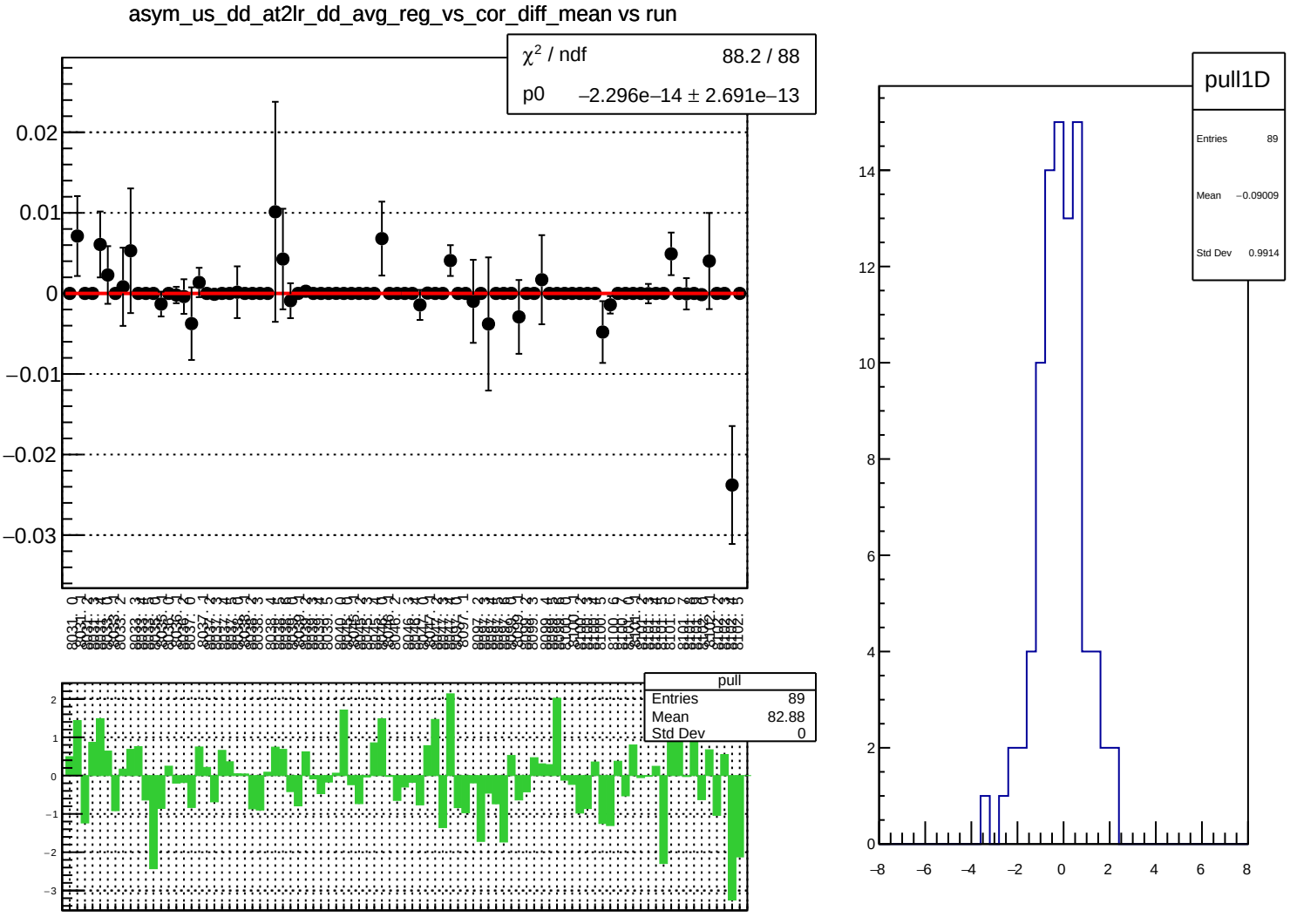
0
2
4
6
8

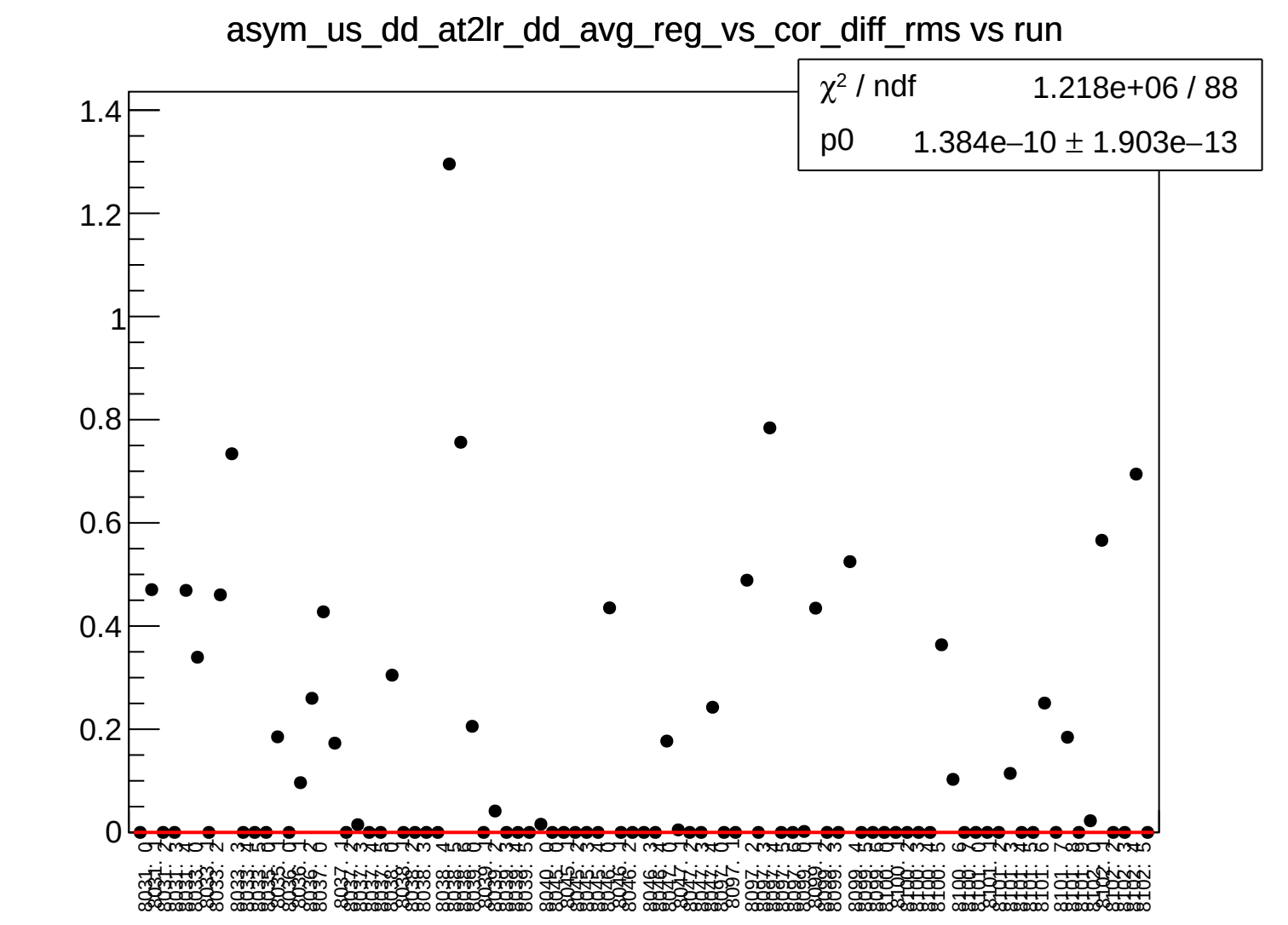

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 6390 / 88
p0 3446 ± 2.612
3800
3600
3400
3200
3000

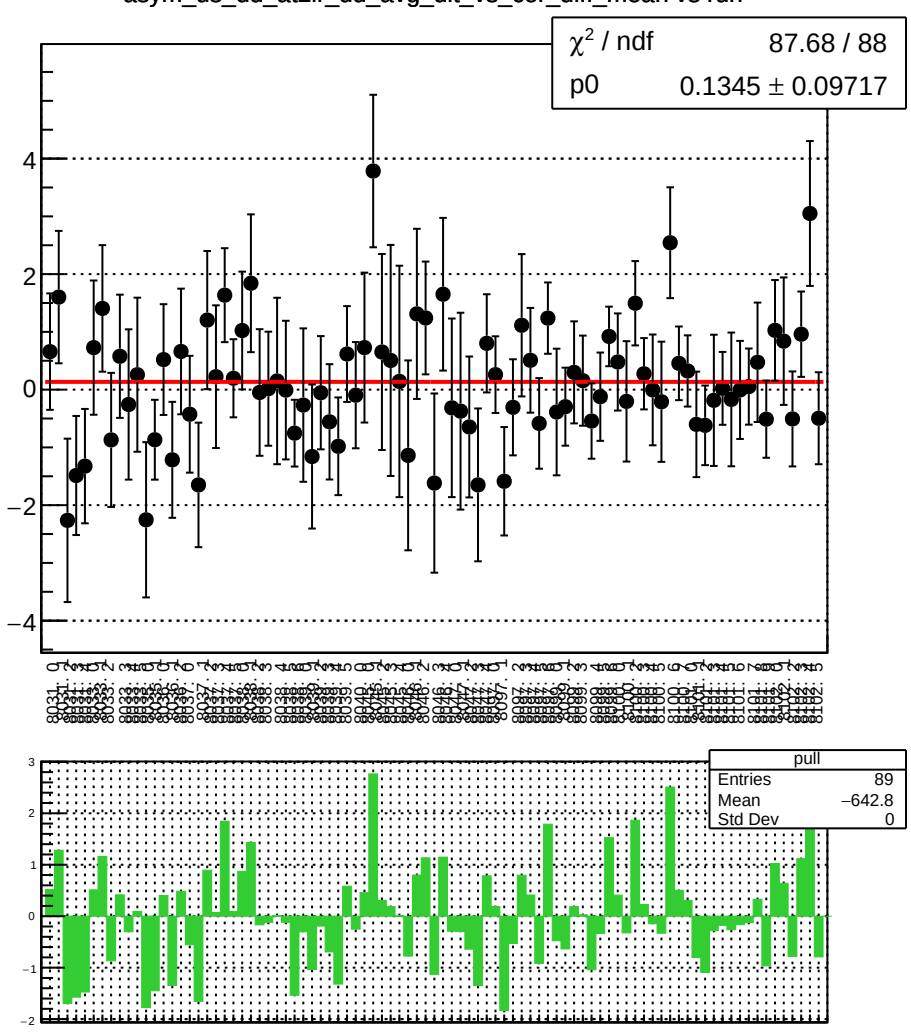

asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 71.26 / 88
p0 4547 ± 4351
200
150
100
50
0
−50
−100
pull
Entries 89
Mean 266.6
Std Dev 141.2
3
2
1
0
−1

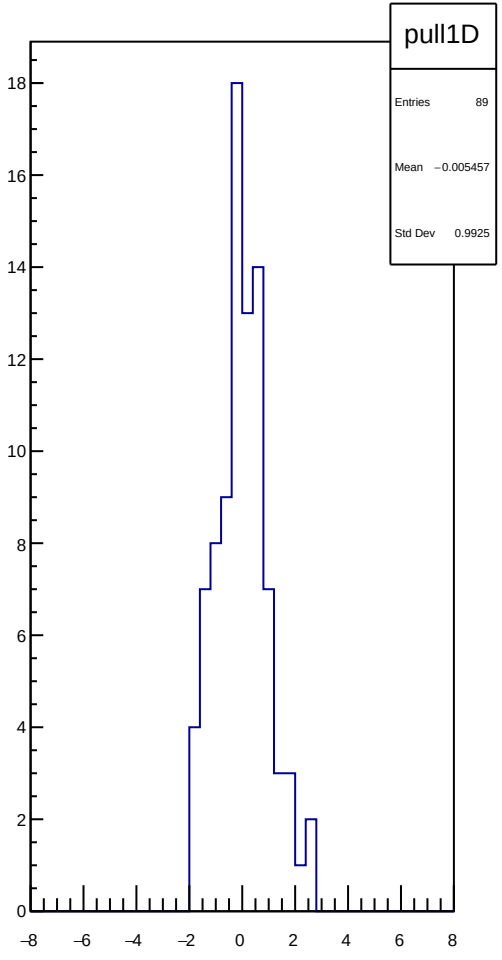

pull1D
Entries 89
Mean −0.001099
Std Dev 0.8948
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

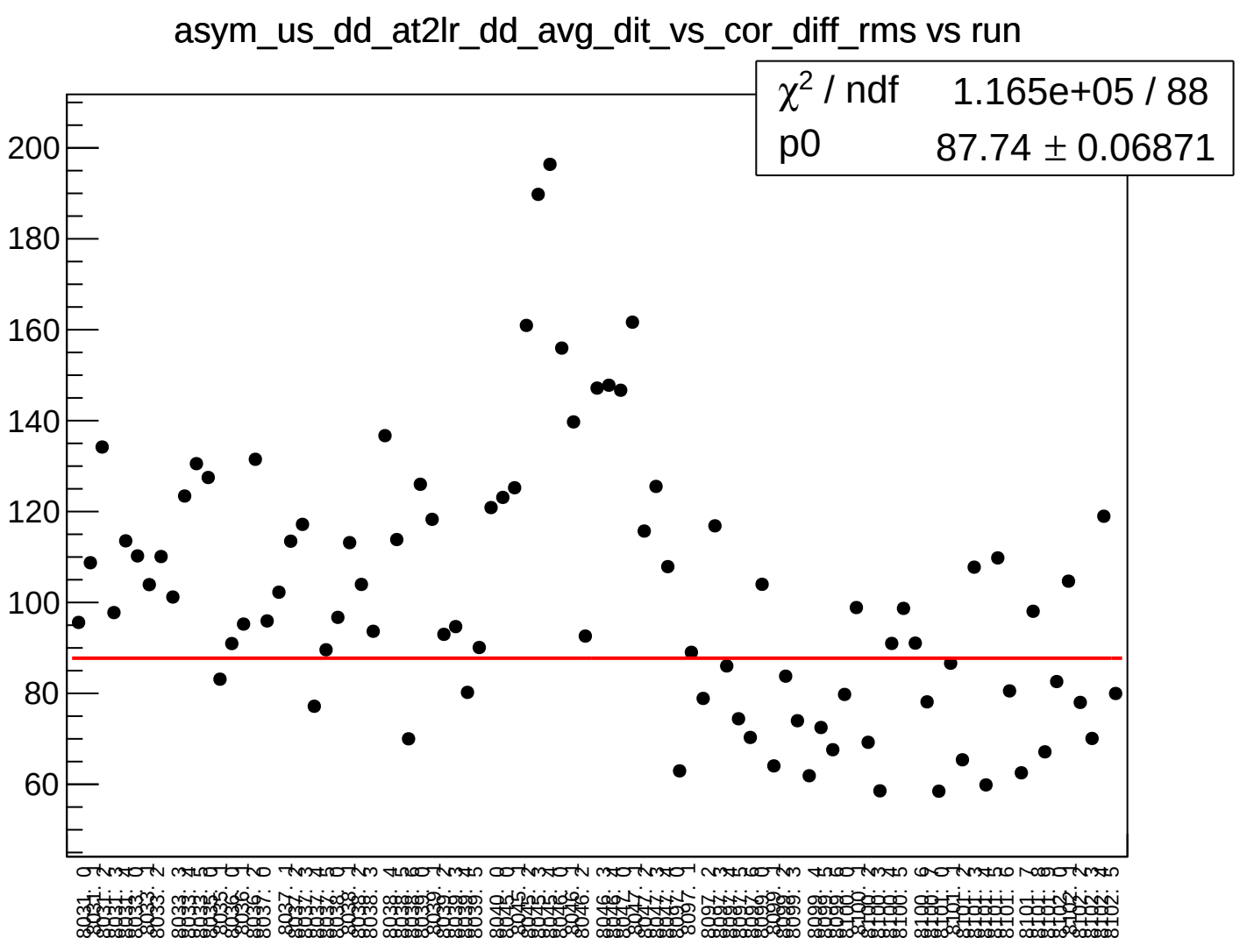

asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 7344 / 88
p0 4059 ± 3.077
4600
4400
4200
4000
3800
3600

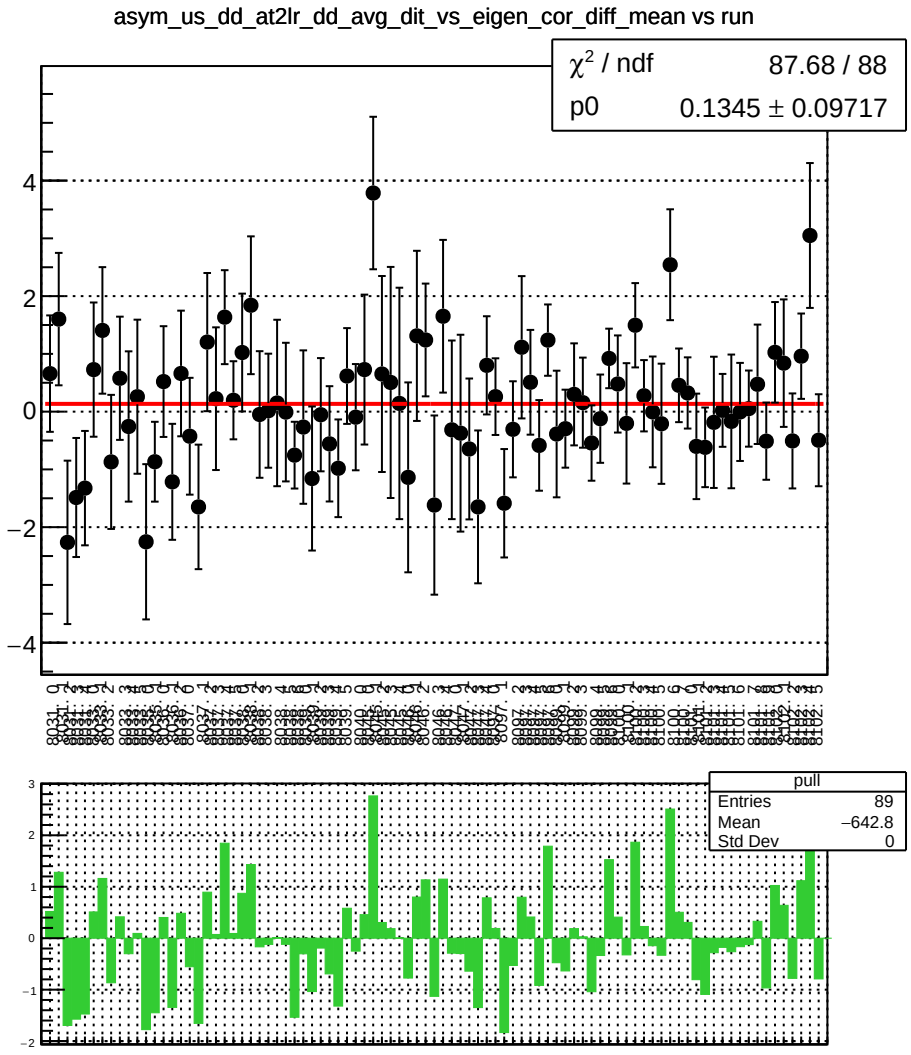

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 88.2 / 88
p0 −2.296e−14 ± 2.691e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 89
Mean 82.88
Std Dev 0
pull1D
Entries 89
Mean −0.09009
Std Dev 0.9914

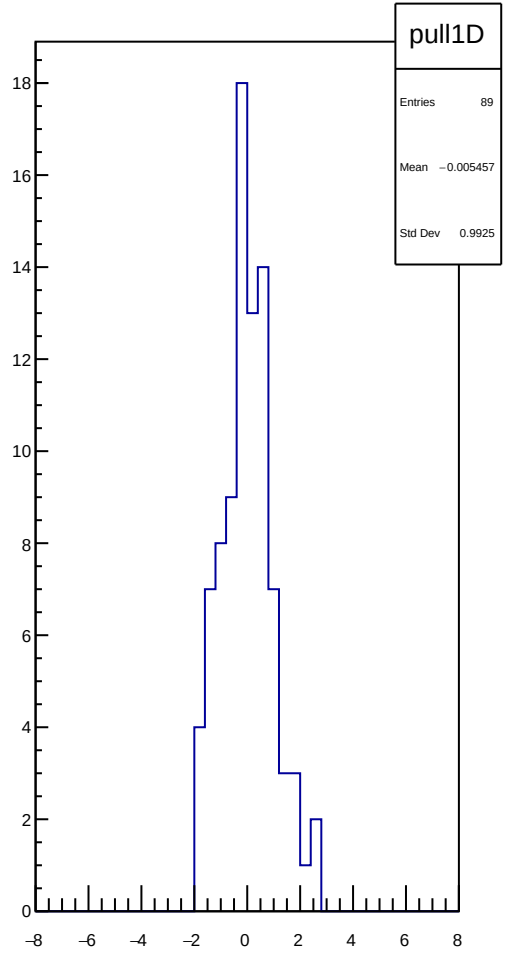

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.218e+06 / 88
p0 1.384e−10 ± 1.903e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

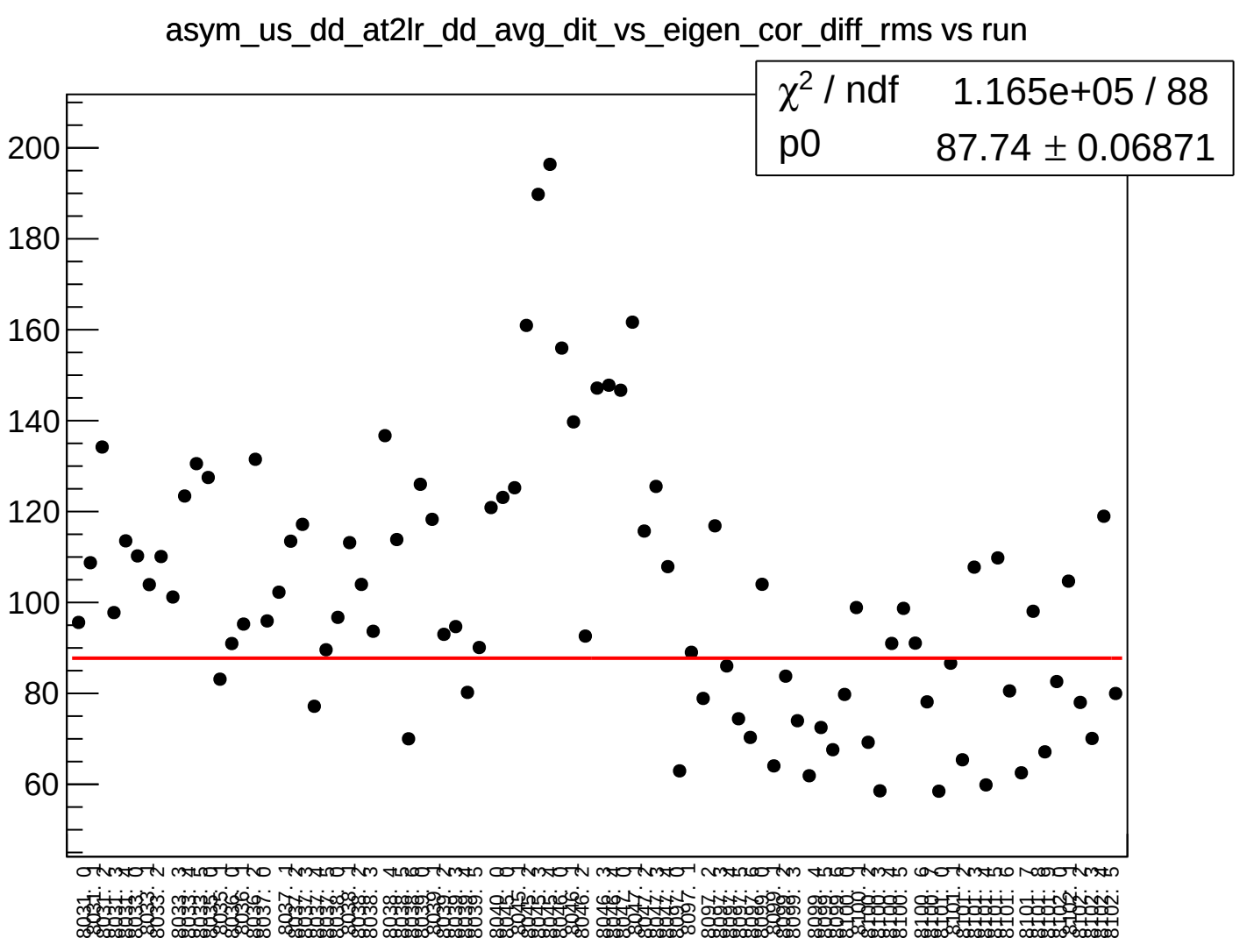

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 87.68 / 88
p0 0.1345 ± 0.09717
pull
Entries 89
Mean −642.8
Std Dev 0

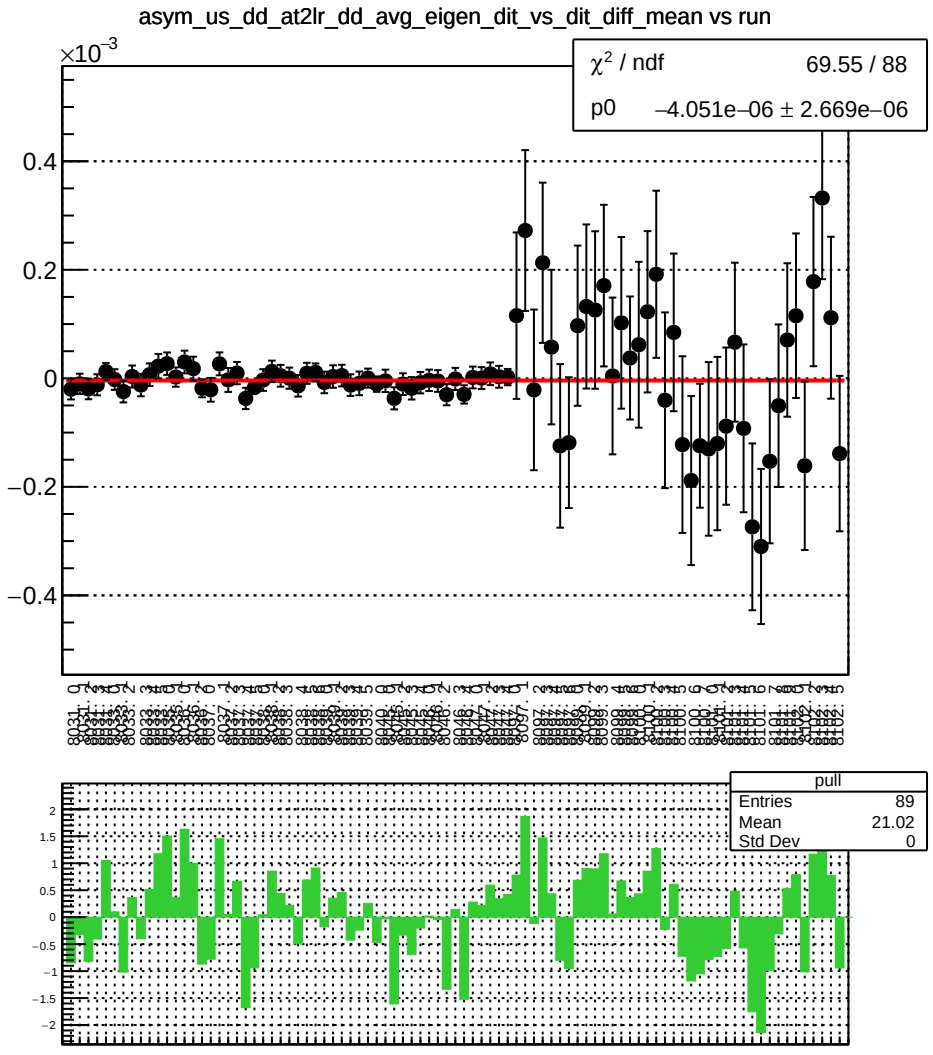

pull1D
Entries 89
Mean −0.005457
Std Dev 0.9925

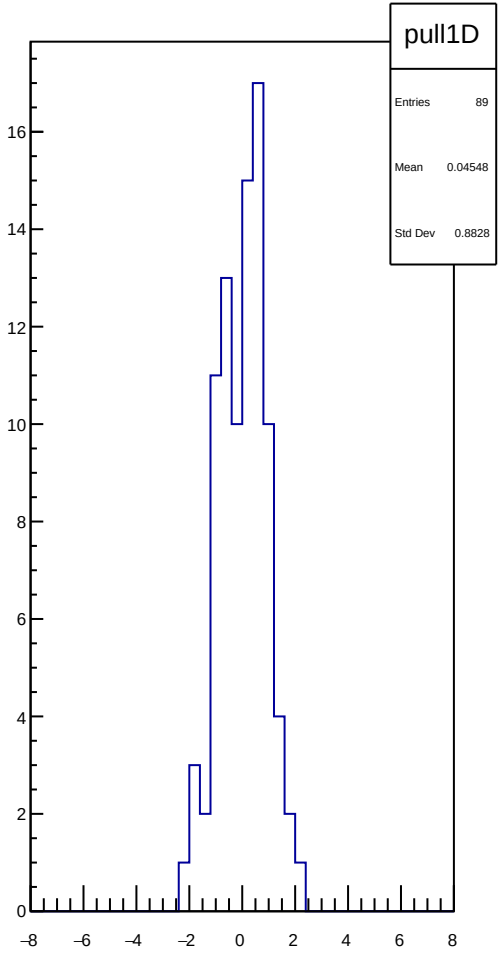

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.165e+05 / 88
p0 87.74 ± 0.06871
200
180
160
140
120
100
80
60

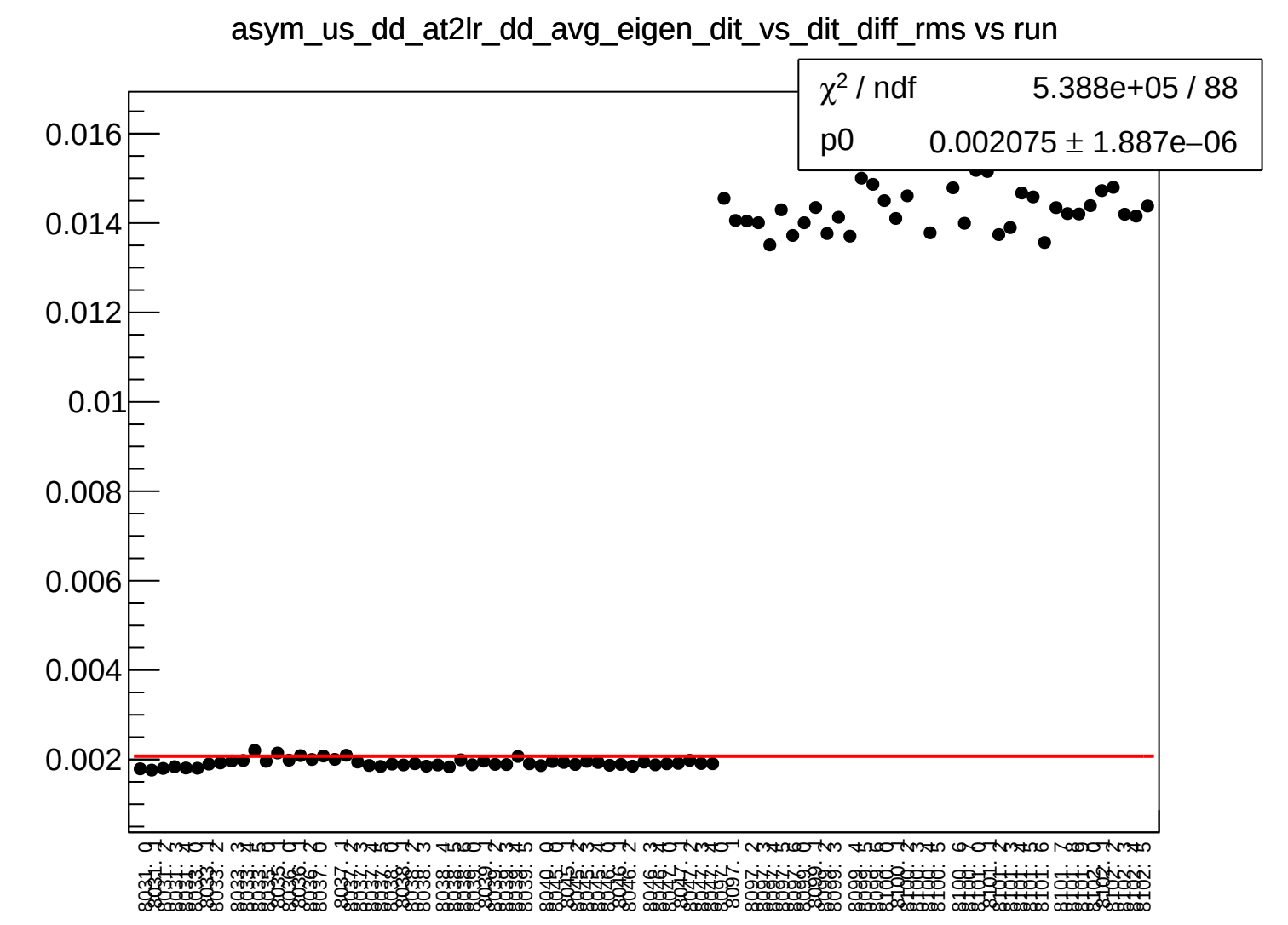

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.68 / 88
p0 0.1345 ± 0.09717
pull
Entries 89
Mean −642.8
Std Dev 0

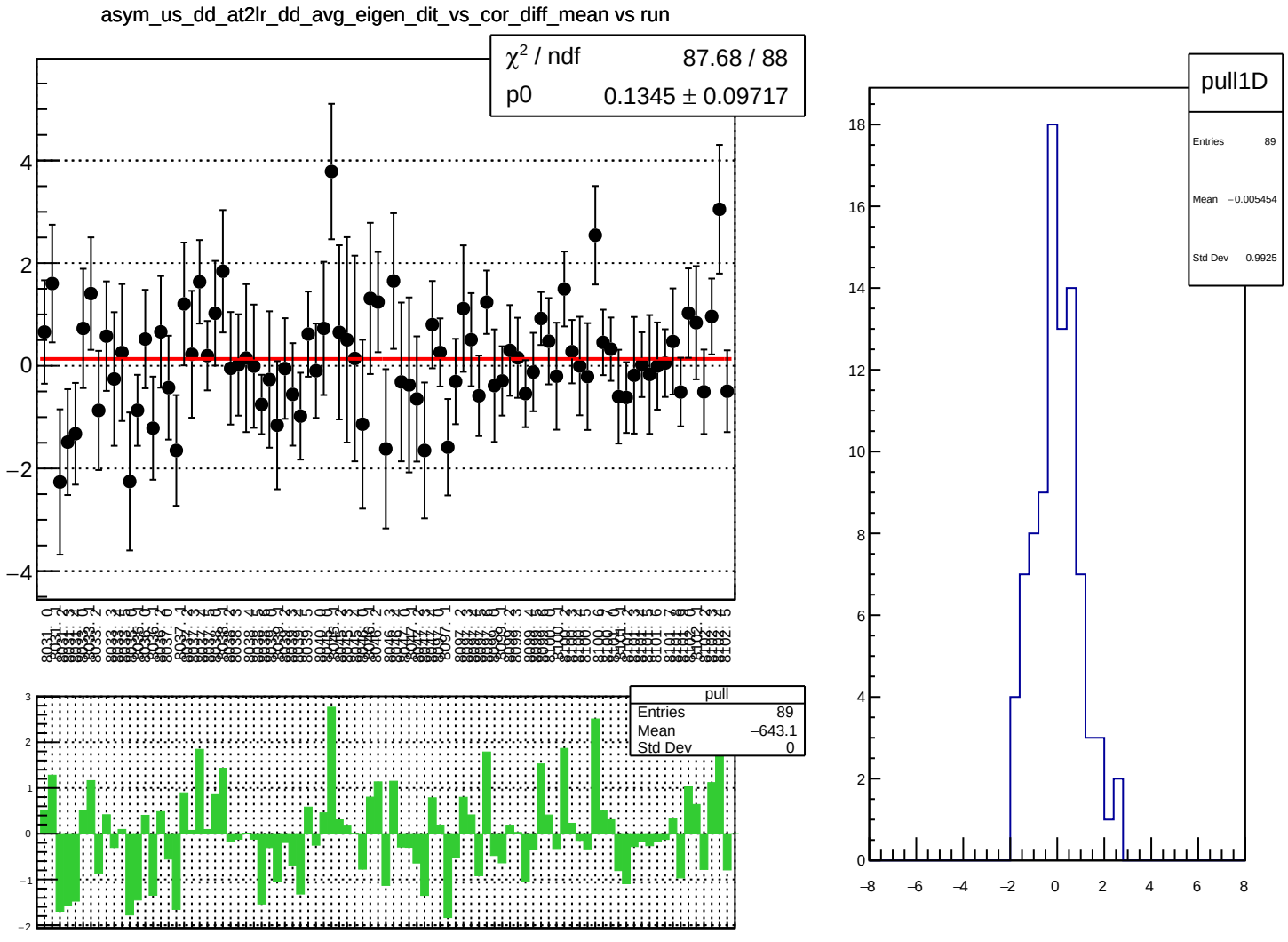

pull1D
Entries 89
Mean −0.005457
Std Dev 0.9925

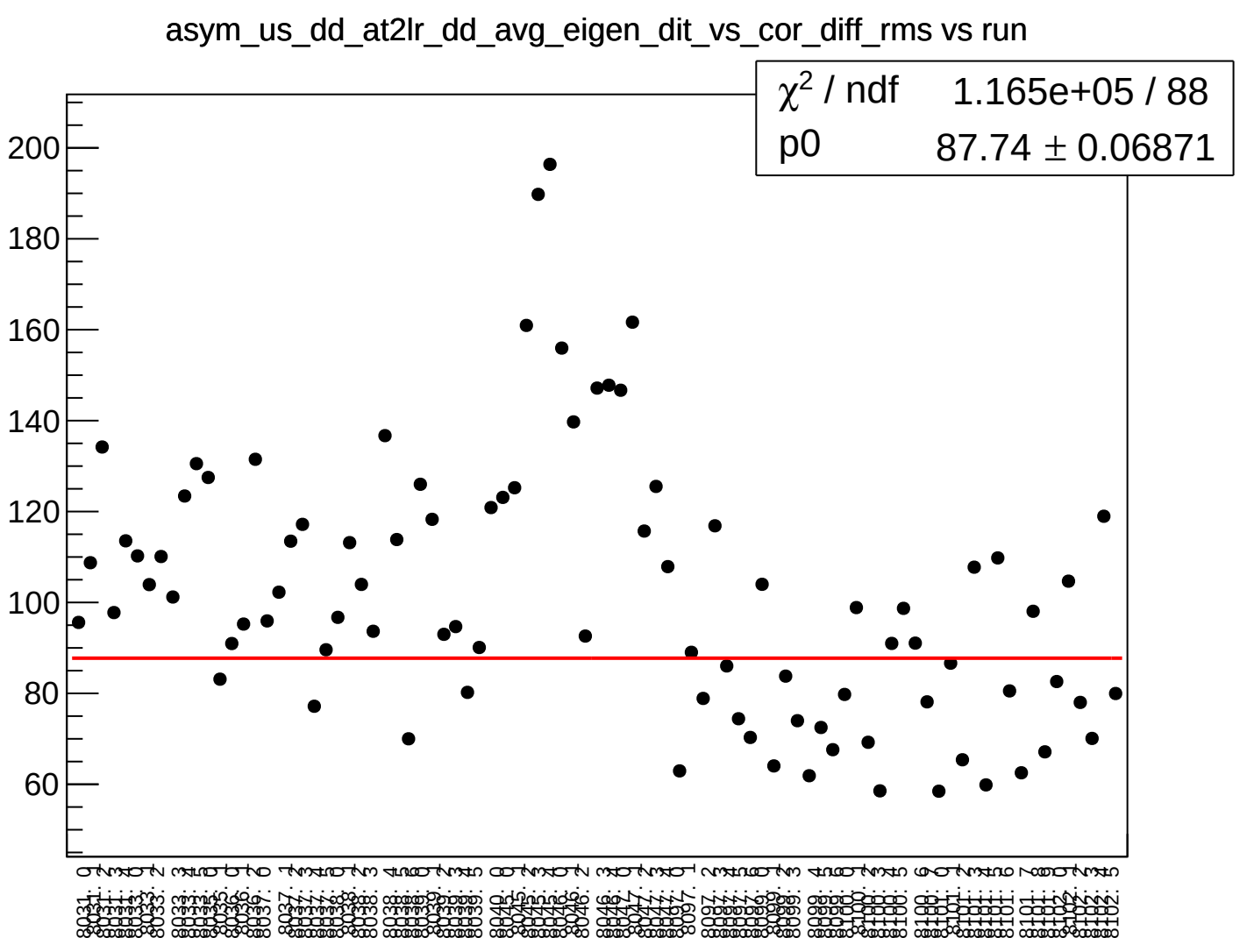

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.165e+05 / 88
p0 87.74 ± 0.06871
200
180
160
140
120
100
80
60

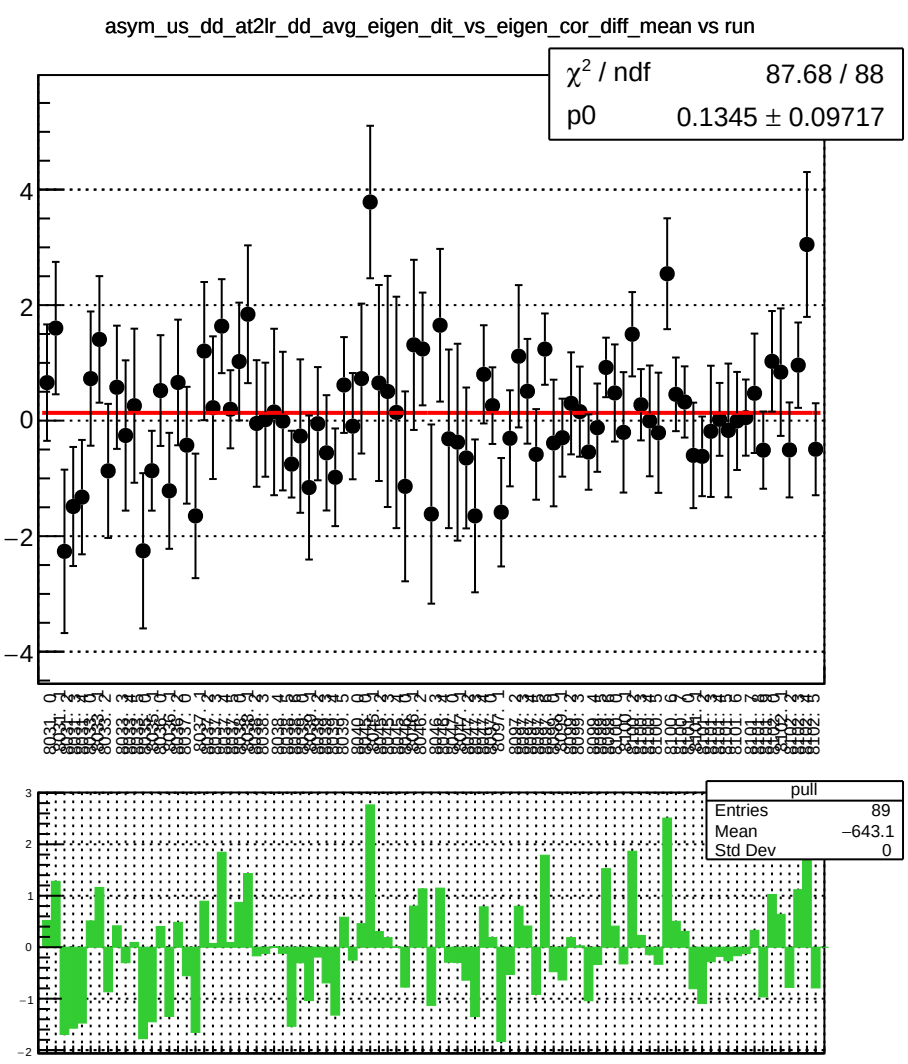

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 69.55 / 88
p0 −4.051e−06 ± 2.669e−06
0.4
0.2
0
−0.2
−0.4
pull
Entries 89
Mean 21.02
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

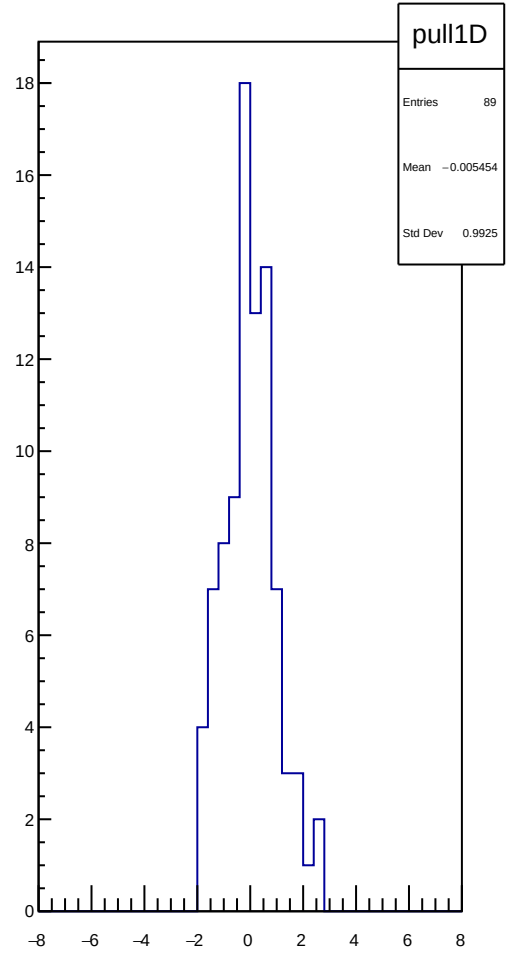

pull1D
Entries 89
Mean 0.04548
Std Dev 0.8828
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

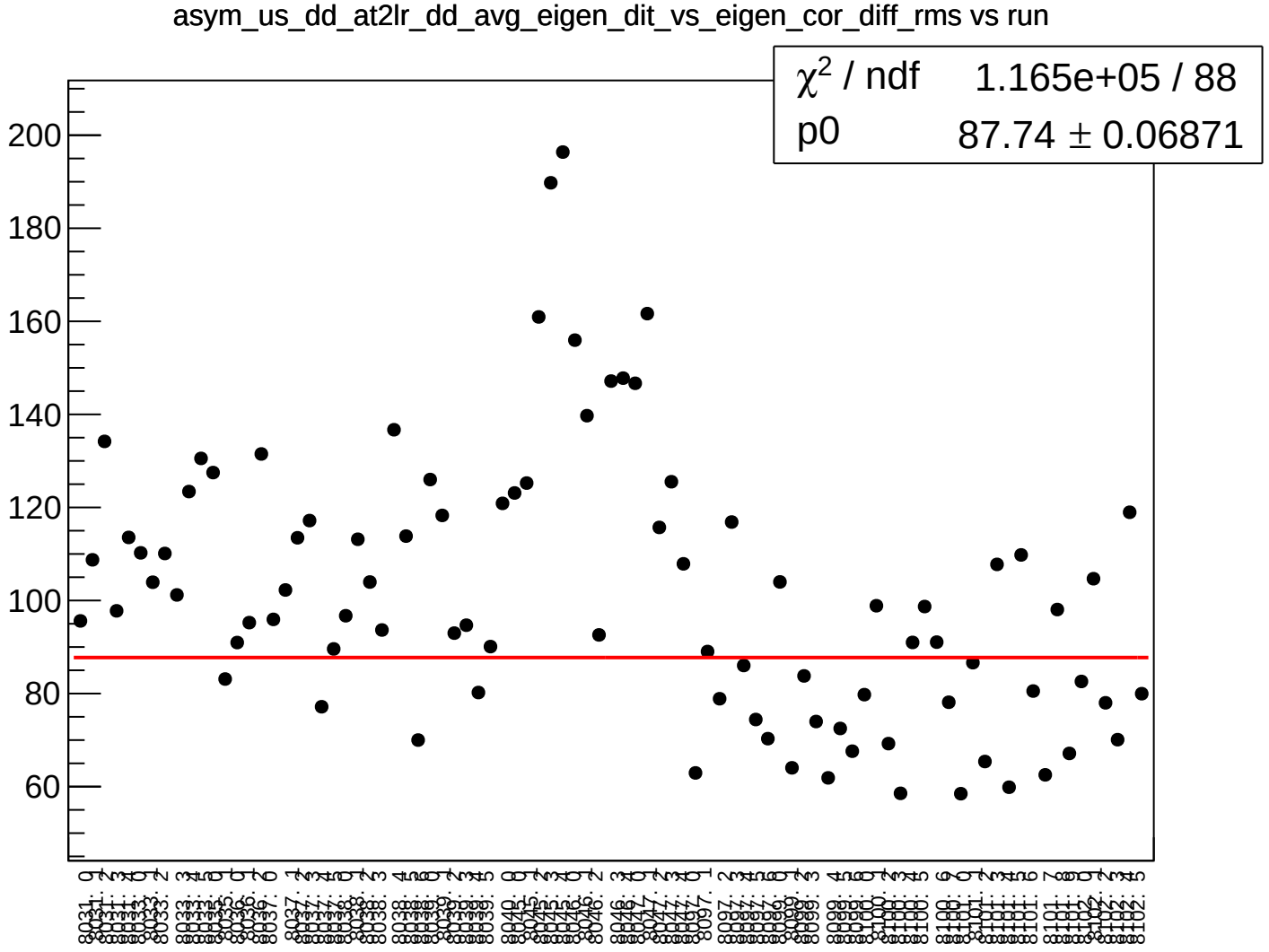

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.388e+05 / 88
p0 0.002075 ± 1.887e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

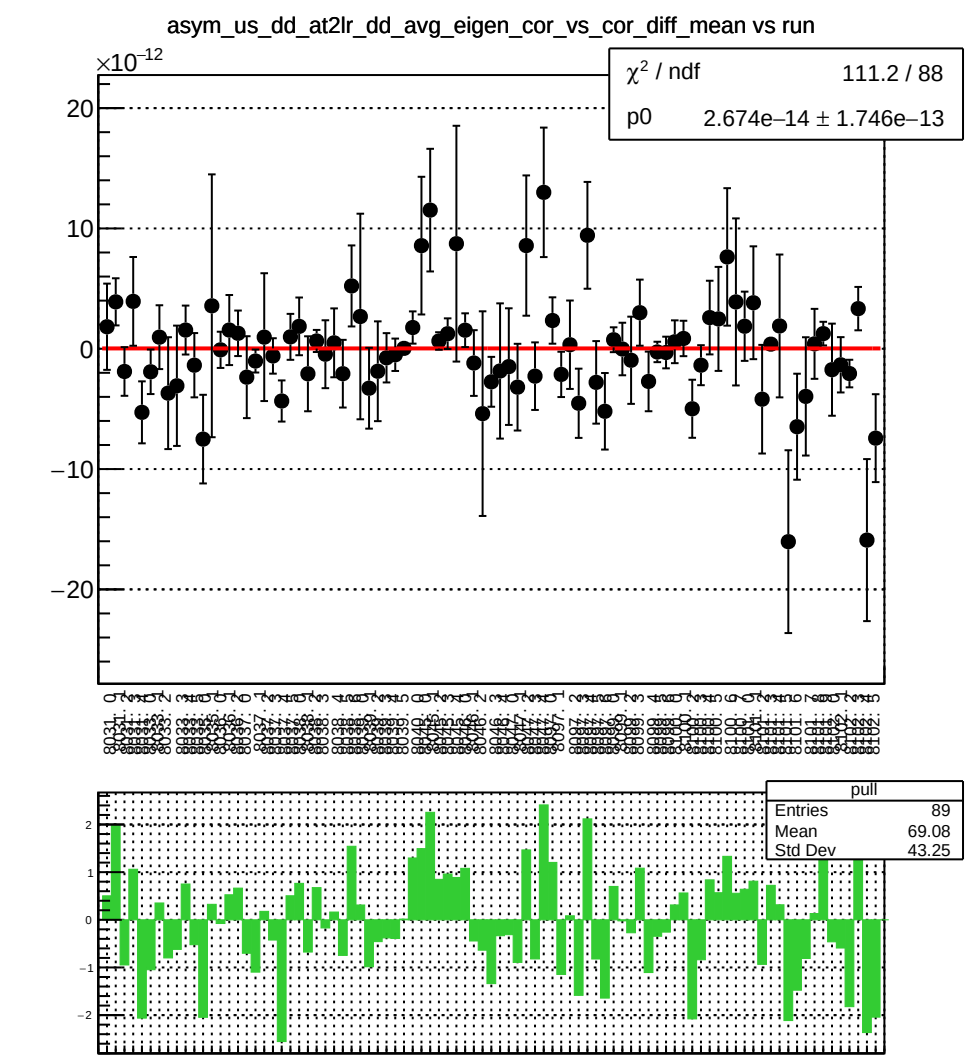

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.68 / 88
p0 0.1345 ± 0.09717
pull
Entries 89
Mean −643.1
Std Dev 0
pull1D
Entries 89
Mean −0.005454
Std Dev 0.9925

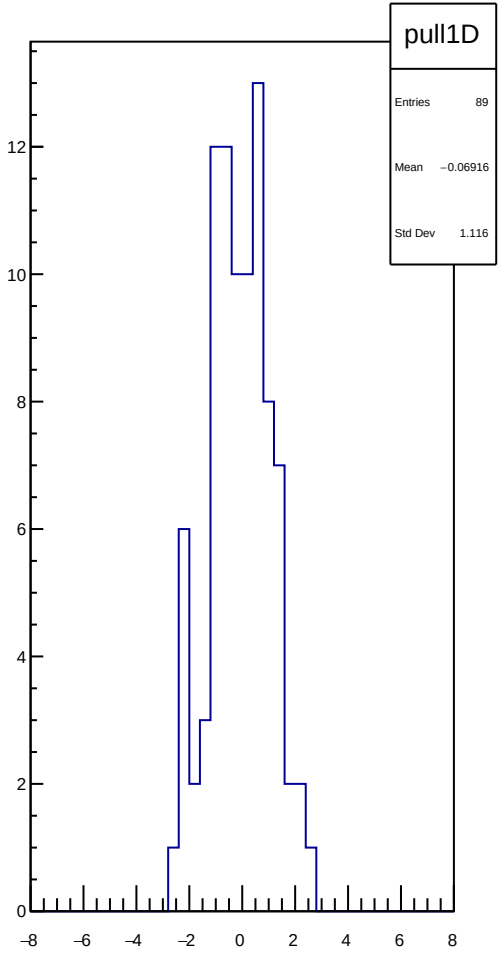

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 1.165e+05 / 88
p0 87.74 ± 0.06871
200
180
160
140
120
100
80
60

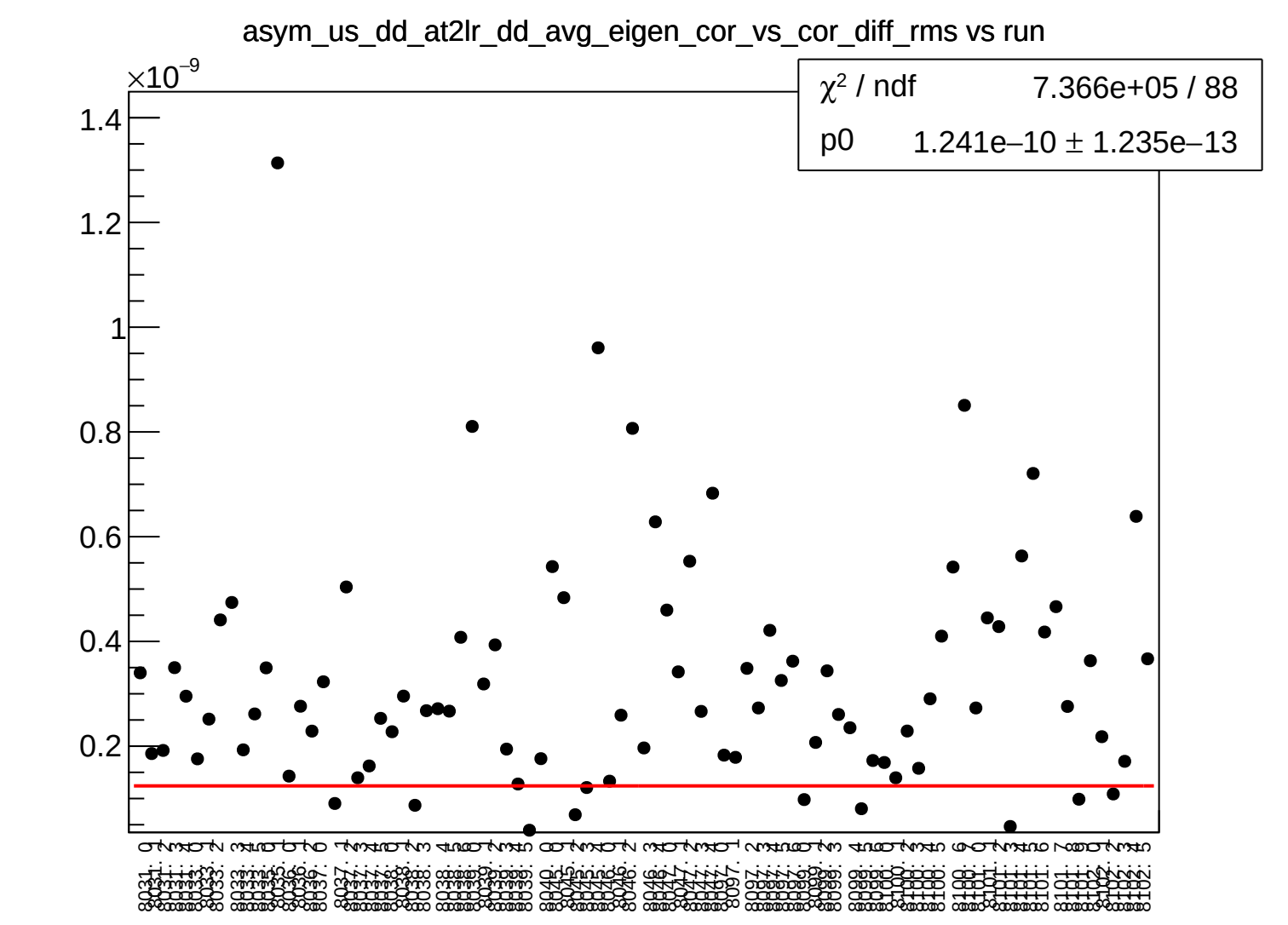

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.68 / 88
p0 0.1345 ± 0.09717
pull
Entries 89
Mean −643.1
Std Dev 0

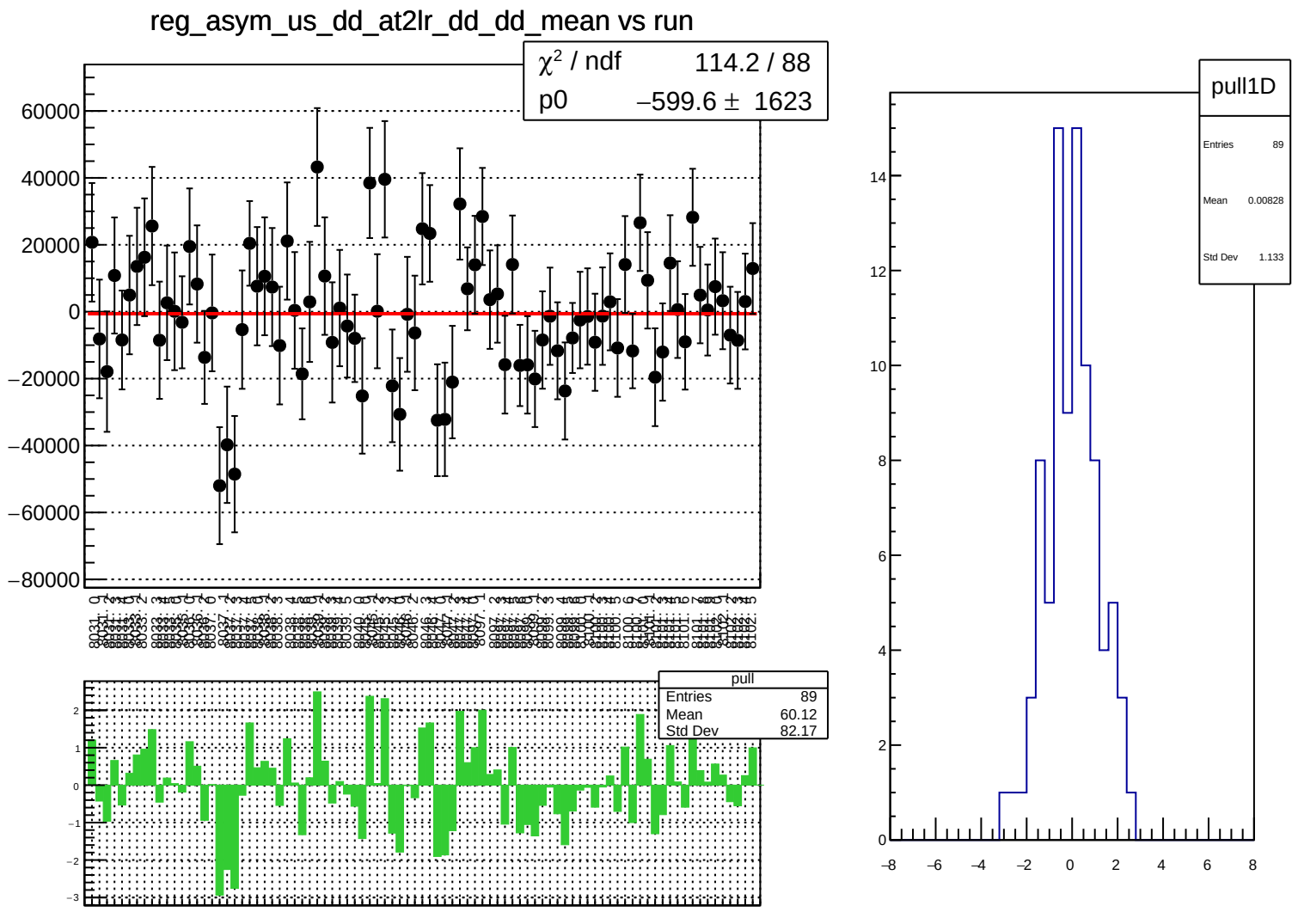

pull1D
Entries 89
Mean −0.005454
Std Dev 0.9925

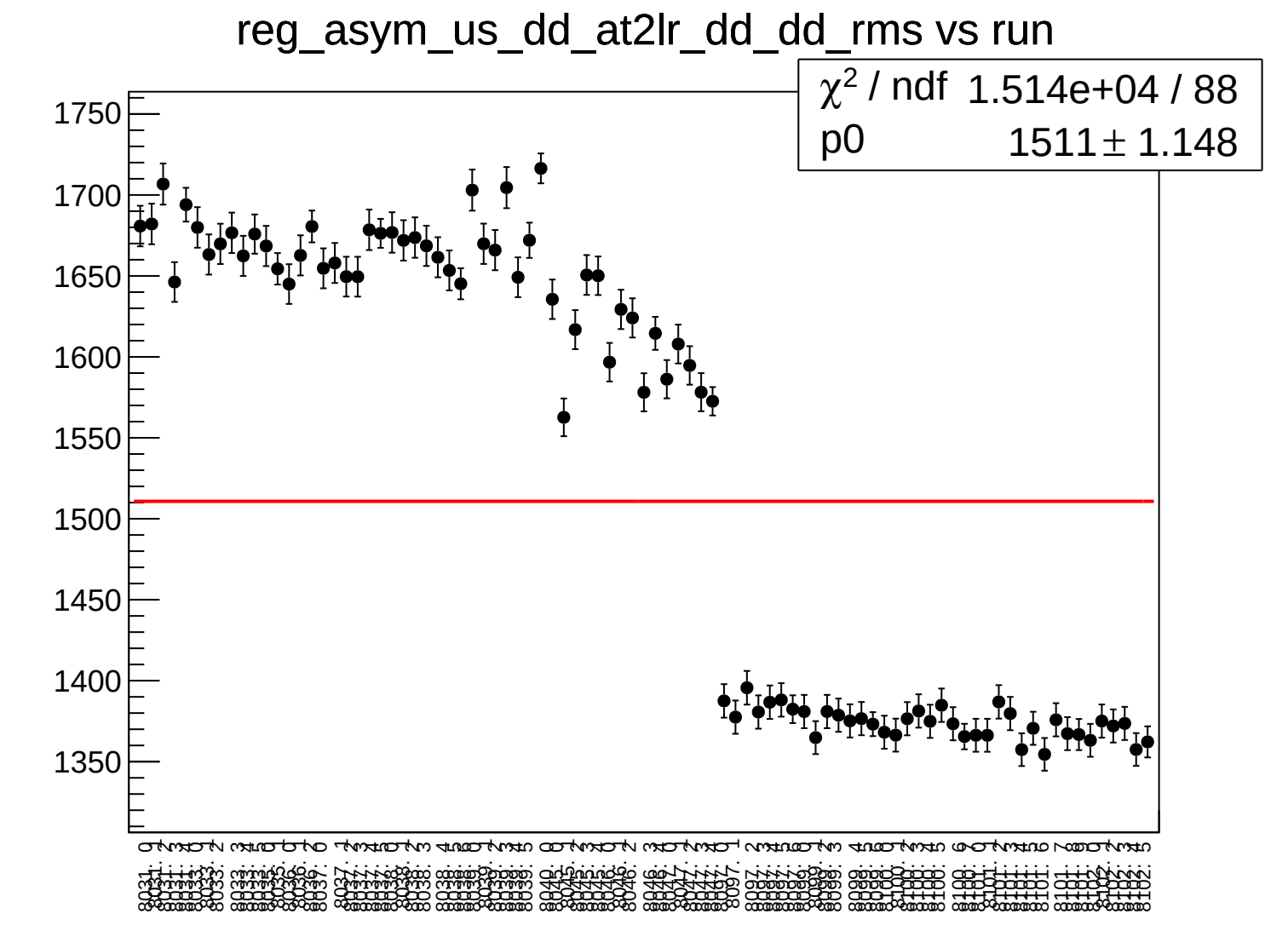

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.165e+05 / 88
p0 87.74 ± 0.06871
200
180
160
140
120
100
80
60

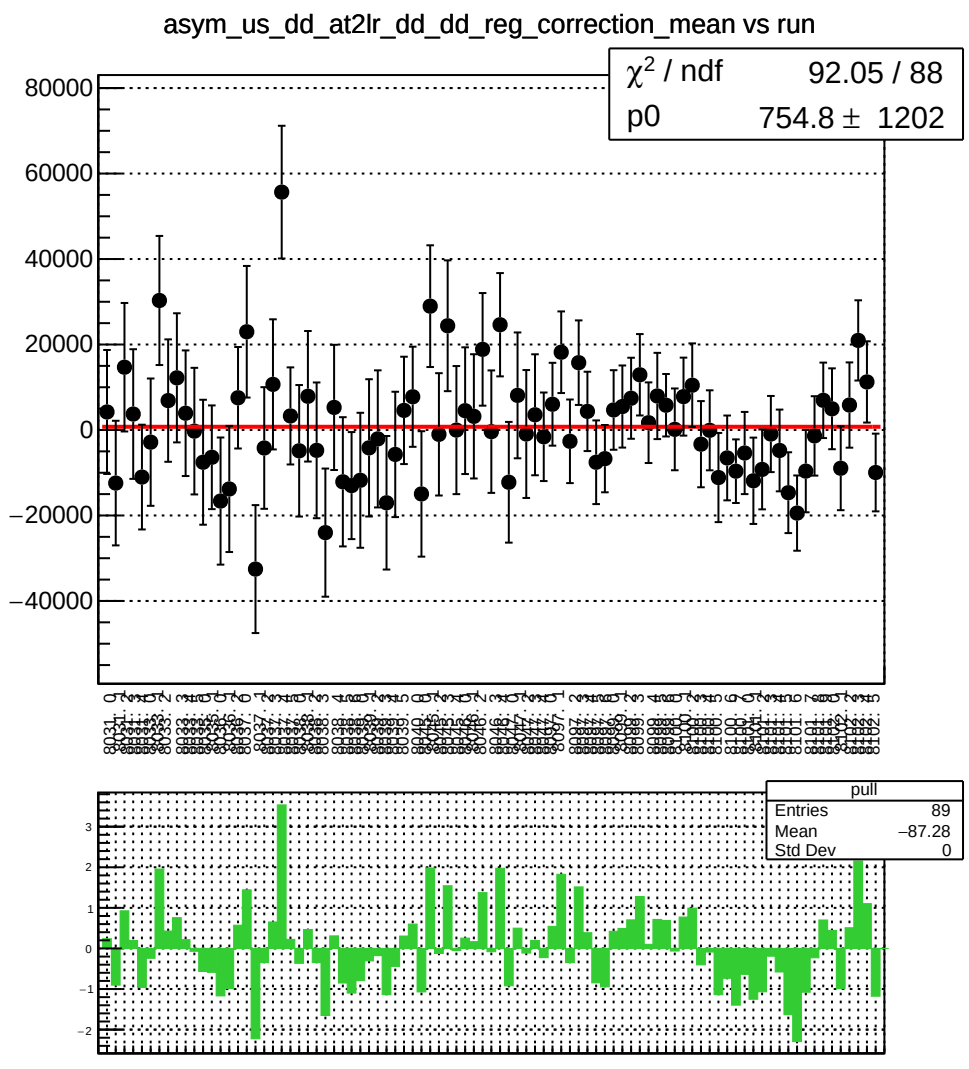

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 111.2 / 88
p0 2.674e−14 ± 1.746e−13
20
10
0
−10
−20
pull
Entries 89
Mean 69.08
Std Dev 43.25
2
1
0
−1
−2

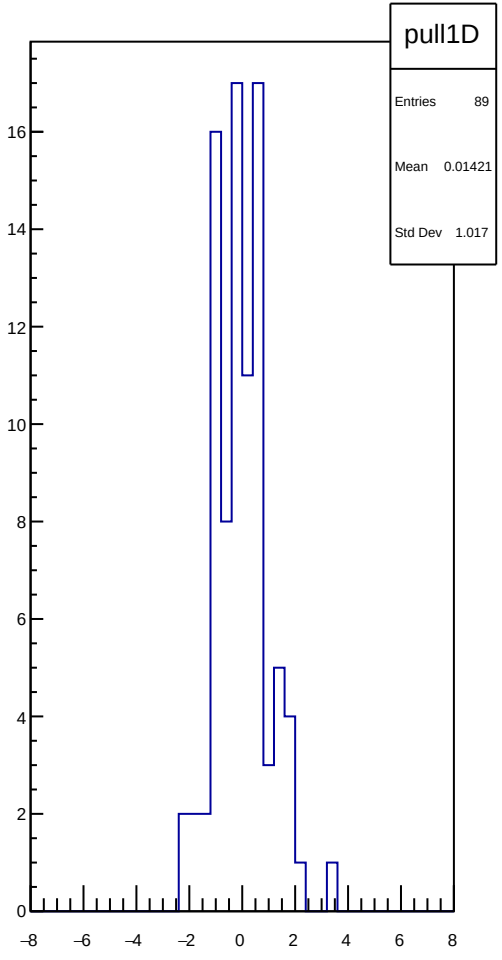

pull1D
Entries 89
Mean −0.06916
Std Dev 1.116
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

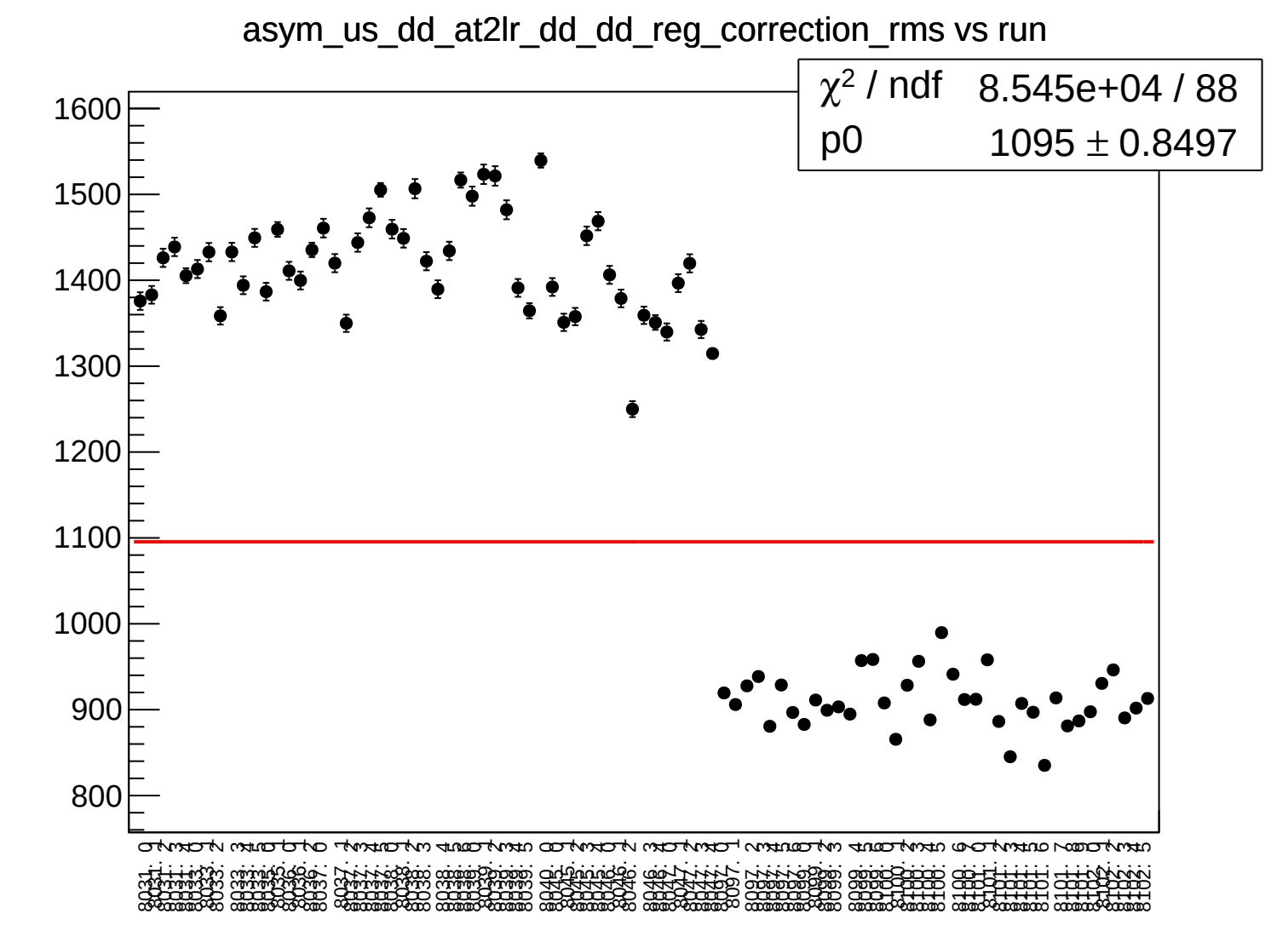

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.366e+05 / 88
p0 1.241e−10 ± 1.235e−13
1.4
1.2
1
0.8
0.6
0.4
0.2

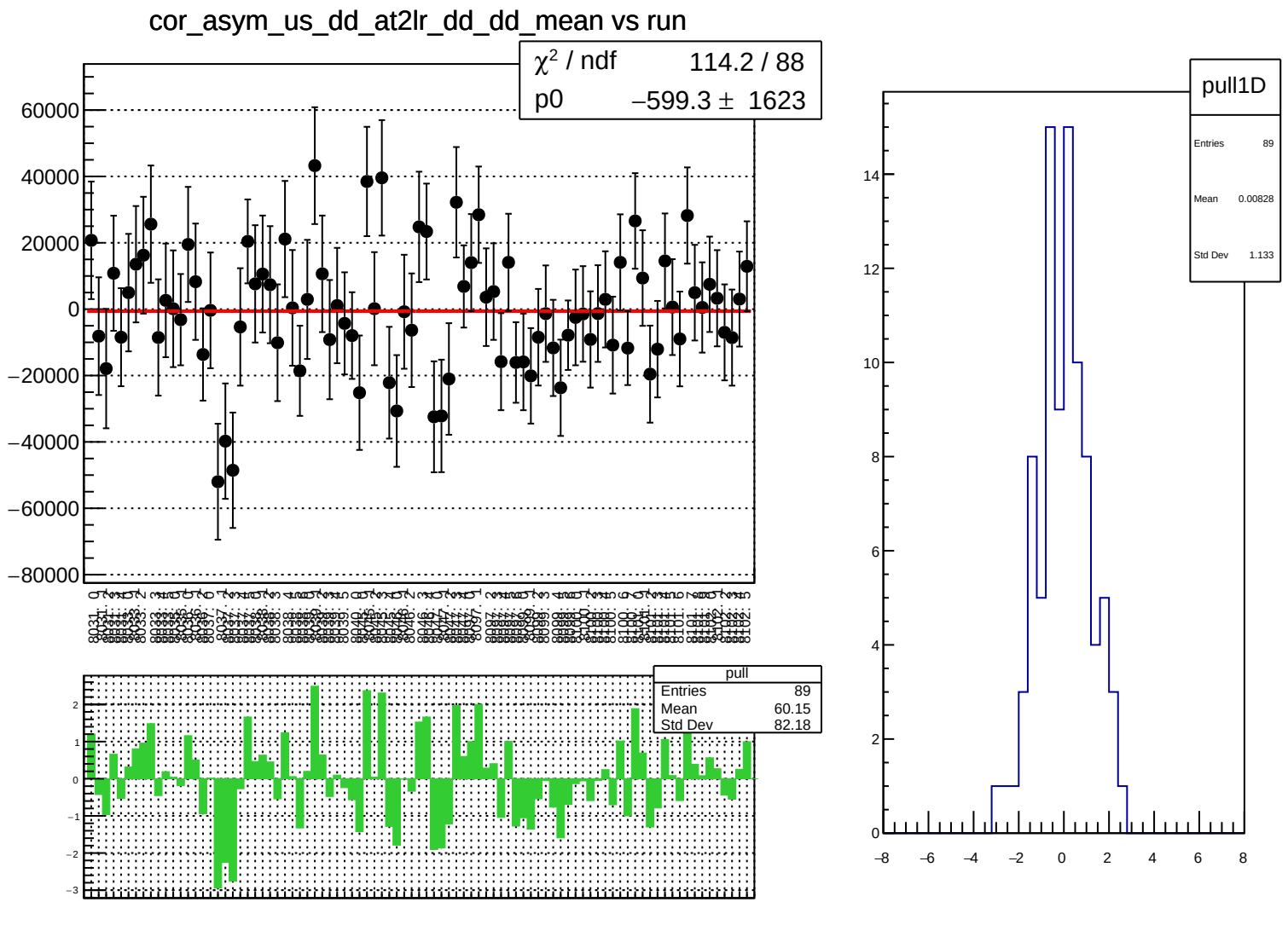

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 114.2 / 88
p0 −599.6 ± 1623
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 60.12
Std Dev 82.17
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.00828
Std Dev 1.133
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

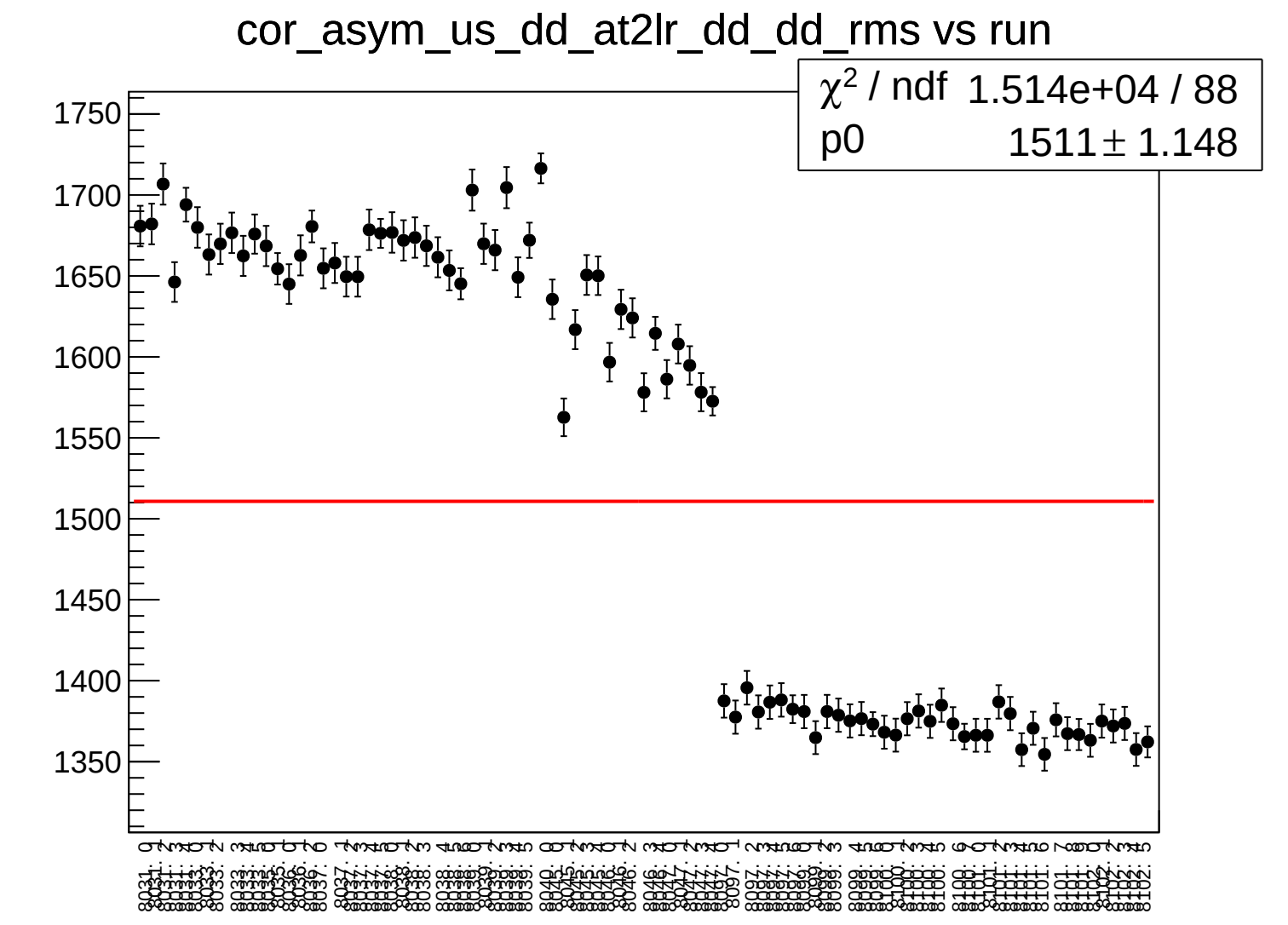

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 1.514e+04 / 88
p0 1511 ± 1.148
1750
1700
1650
1600
1550
1500
1450
1400
1350

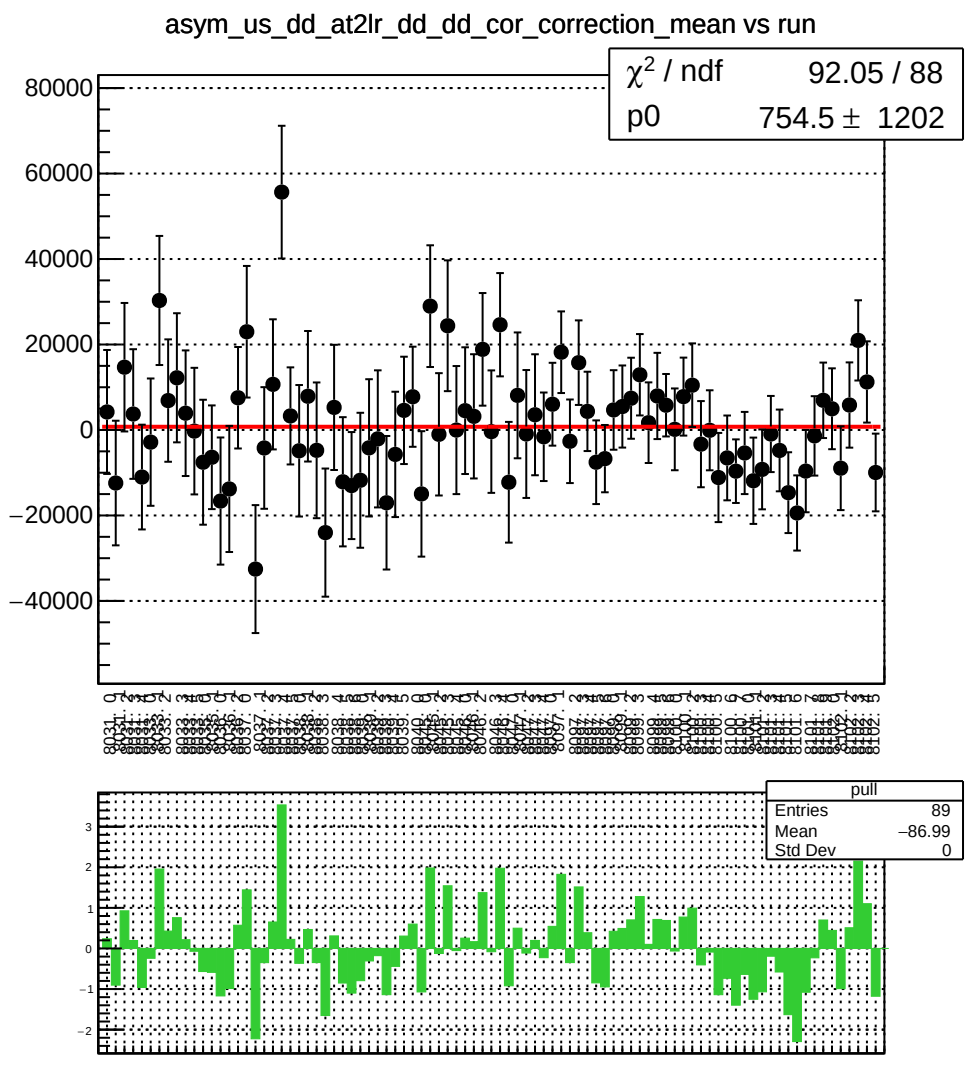

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 92.05 / 88
p0 754.8 ± 1202
80000
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −87.28
Std Dev 0
3
2
1
0
−1
−2

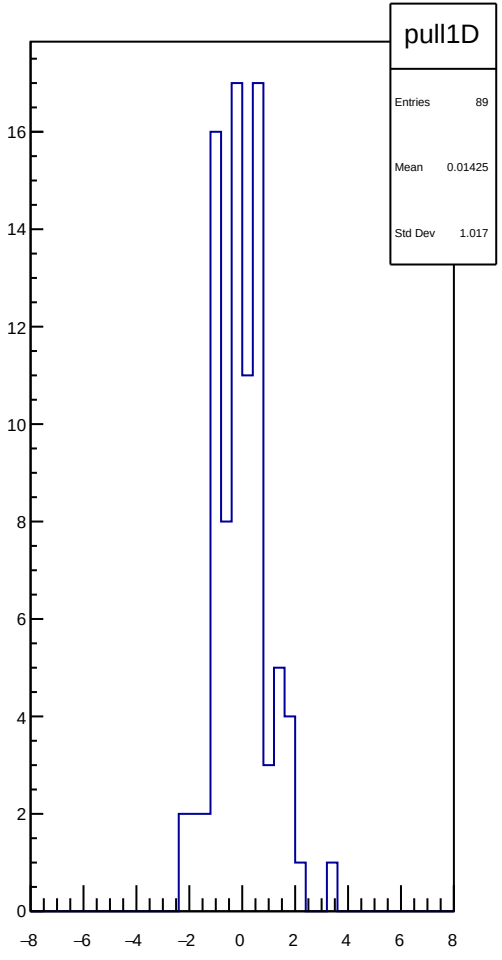

pull1D
Entries 89
Mean 0.01421
Std Dev 1.017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

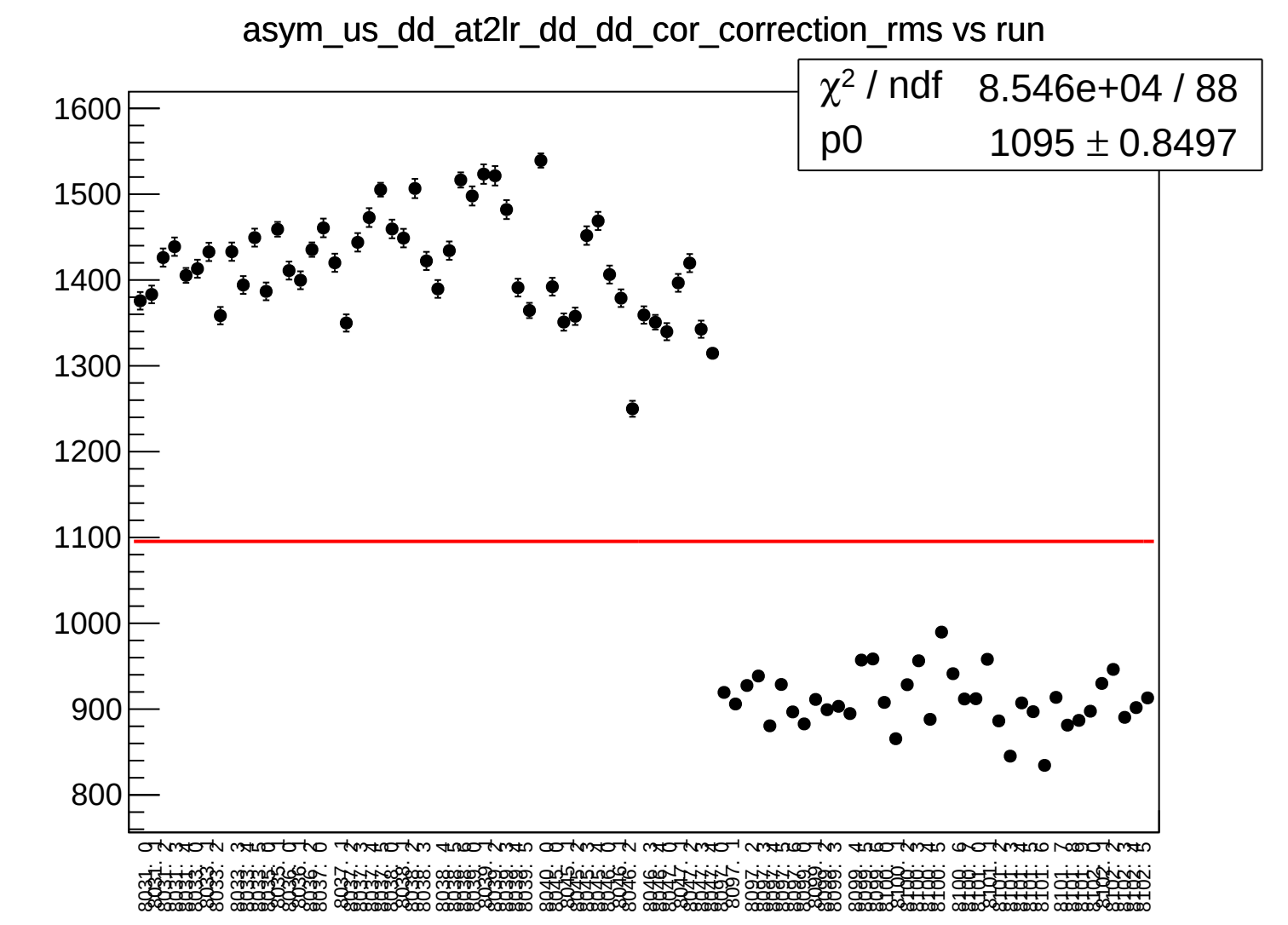

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 8.545e+04 / 88
p0 1095 ± 0.8497
1600
1500
1400
1300
1200
1100
1000
900
800

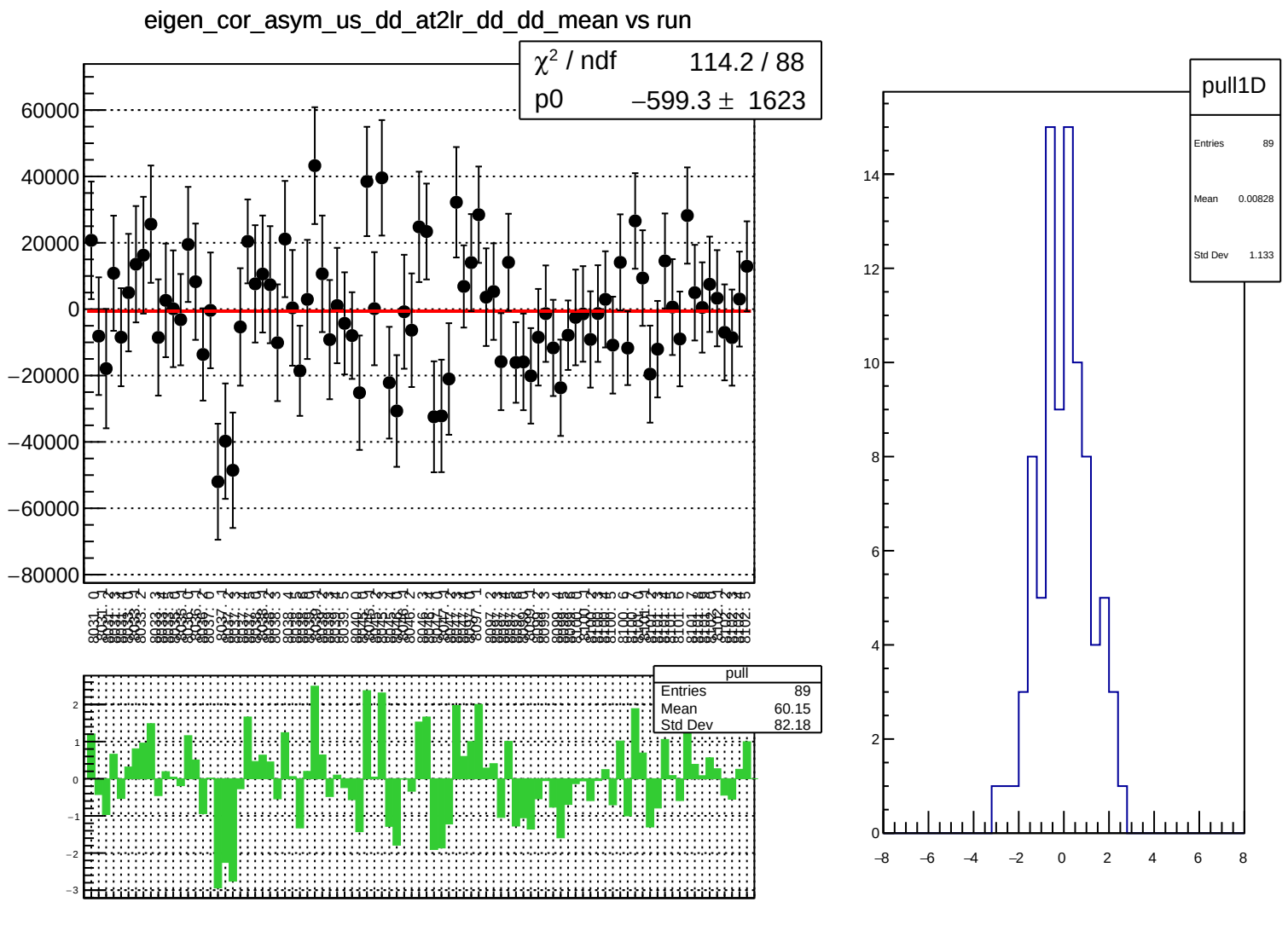

cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 114.2 / 88
p0 −599.3 ± 1623
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 60.15
Std Dev 82.18
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.00828
Std Dev 1.133
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

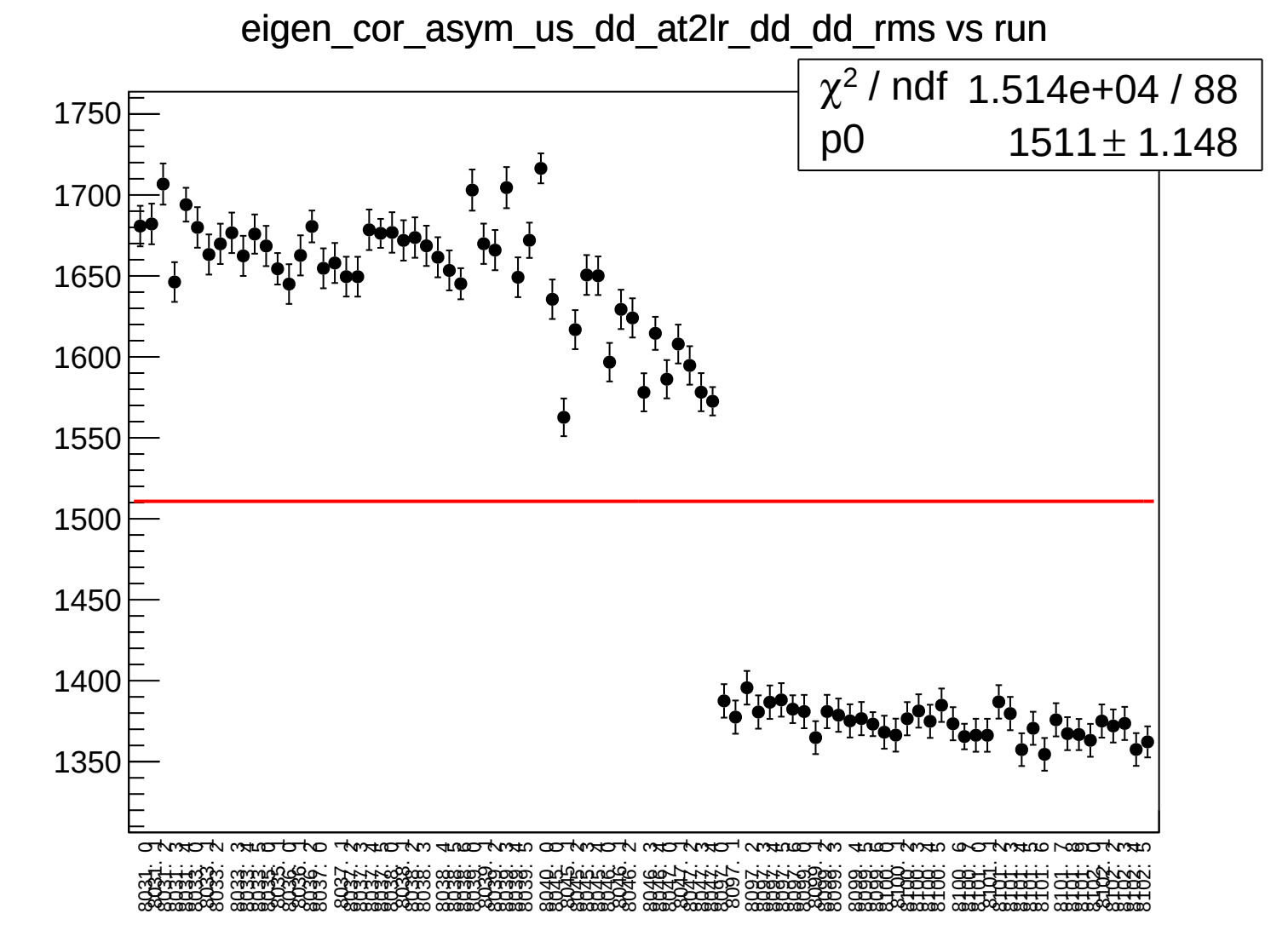

cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 1.514e+04 / 88
p0 1511 ± 1.148
1750
1700
1650
1600
1550
1500
1450
1400
1350

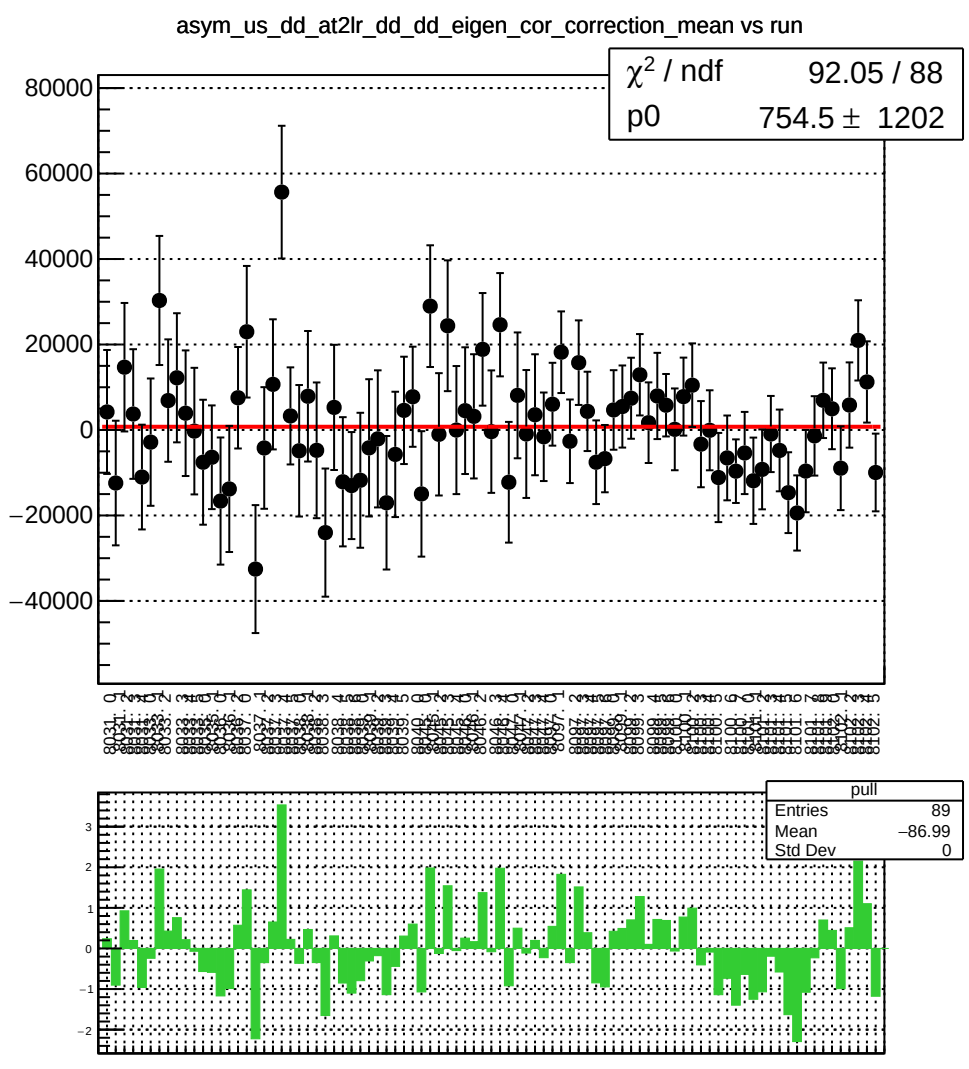

asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 92.05 / 88
p0 754.5 ± 1202
80000
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −86.99
Std Dev 0
3
2
1
0
−1
−2

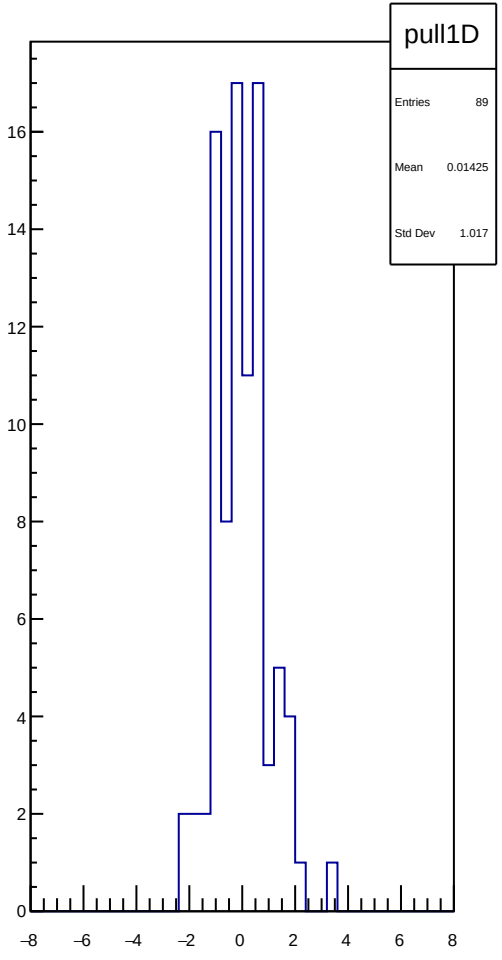

pull1D
Entries 89
Mean 0.01425
Std Dev 1.017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

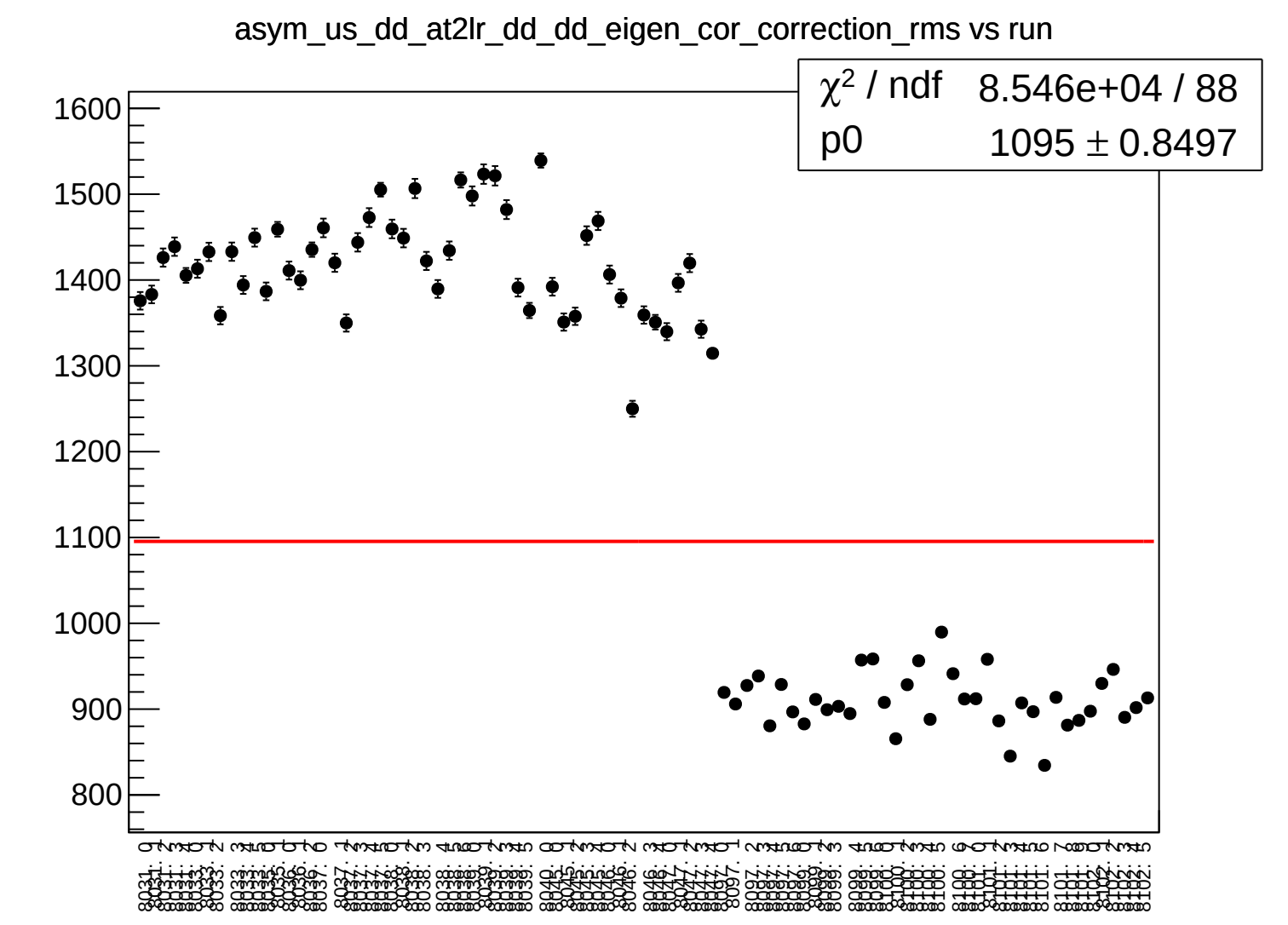

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 8.546e+04 / 88
p0 1095 ± 0.8497
1600
1500
1400
1300
1200
1100
1000
900
800

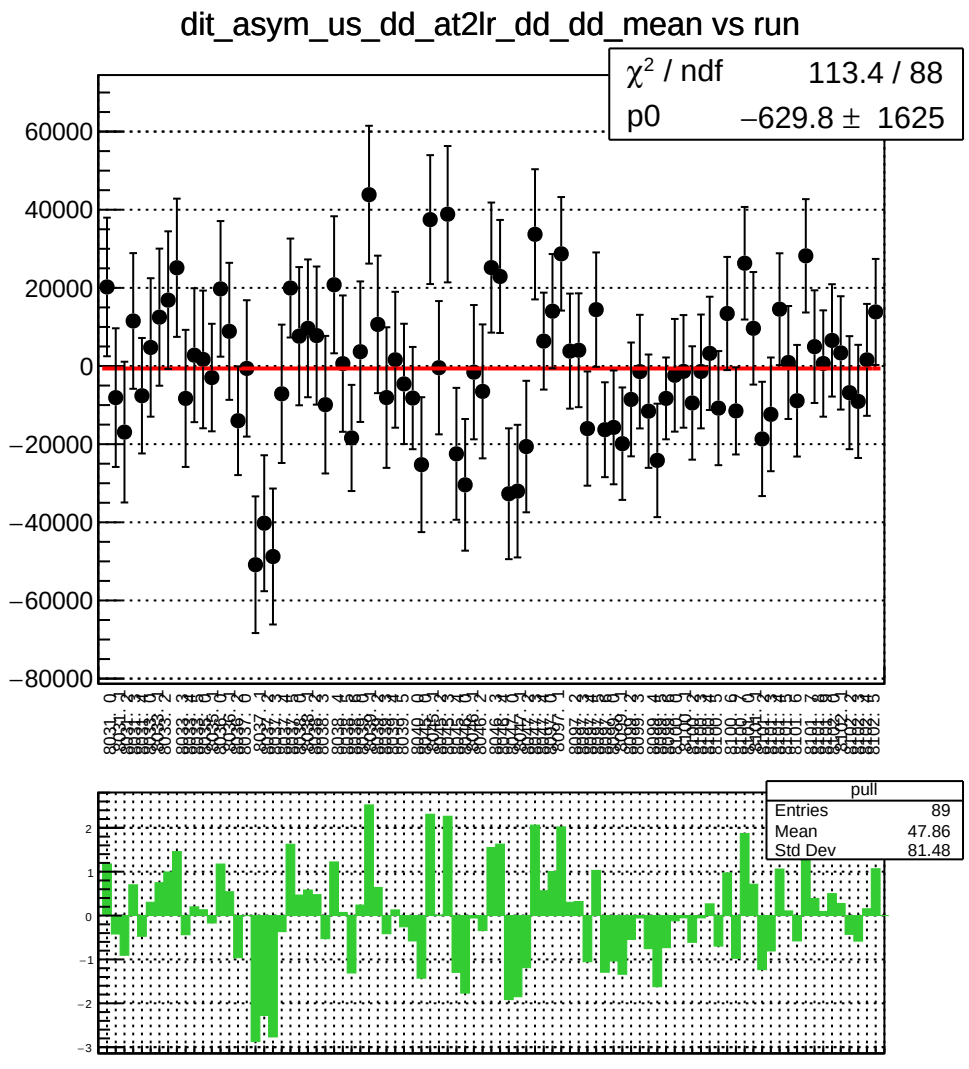

eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 114.2 / 88
p0 −599.3 ± 1623
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 60.15
Std Dev 82.18
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.00828
Std Dev 1.133
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

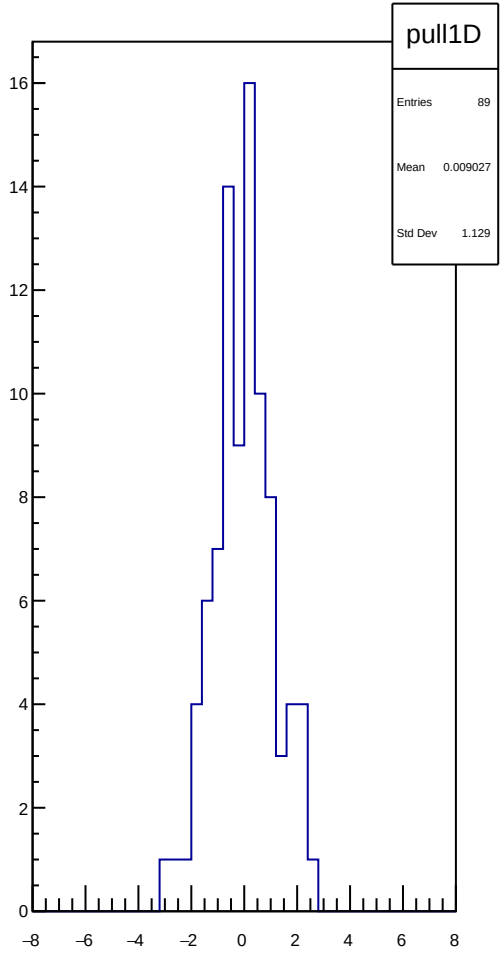

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 1.514e+04 / 88
p0 1511 ± 1.148
1750
1700
1650
1600
1550
1500
1450
1400
1350

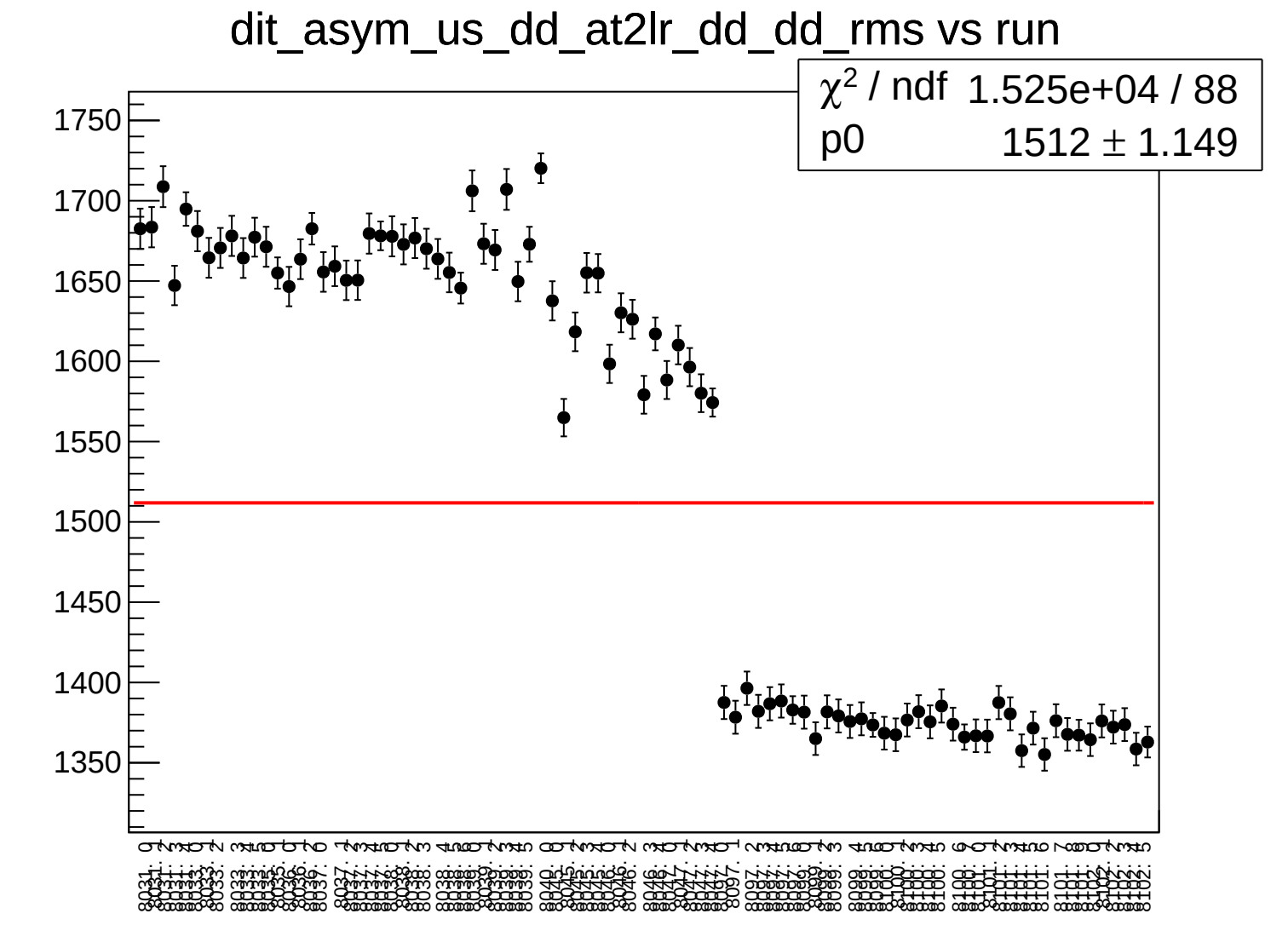

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 92.05 / 88
p0 754.5 ± 1202
80000
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −86.99
Std Dev 0
3
2
1
0
−1
−2

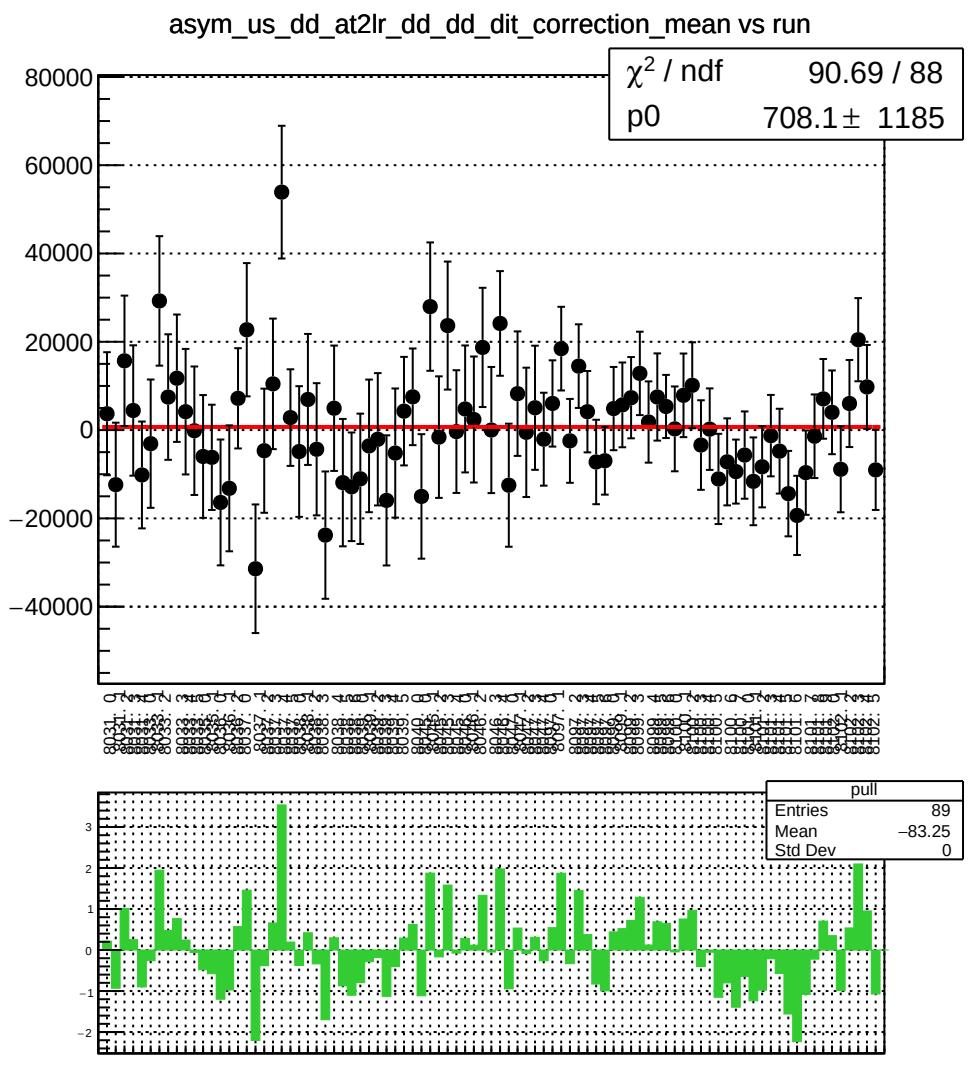

pull1D
Entries 89
Mean 0.01425
Std Dev 1.017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

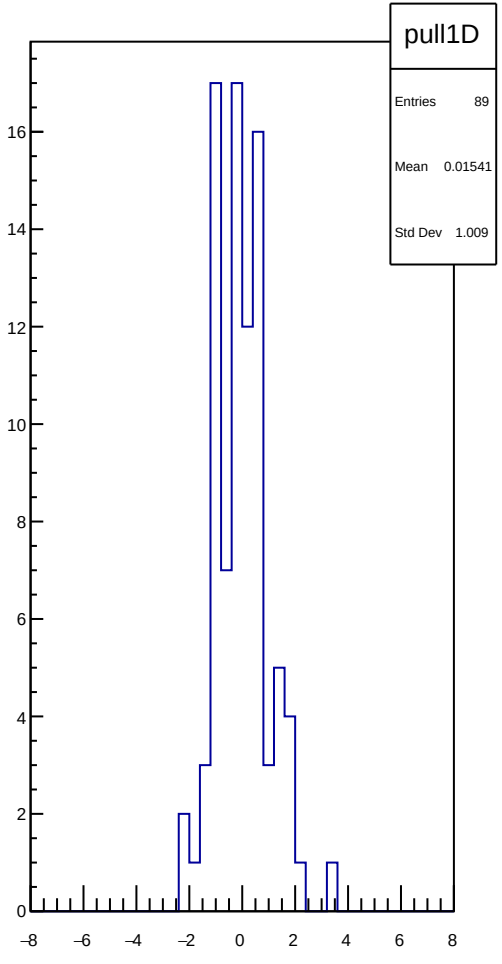

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 8.546e+04 / 88
p0 1095 ± 0.8497
1600
1500
1400
1300
1200
1100
1000
900
800

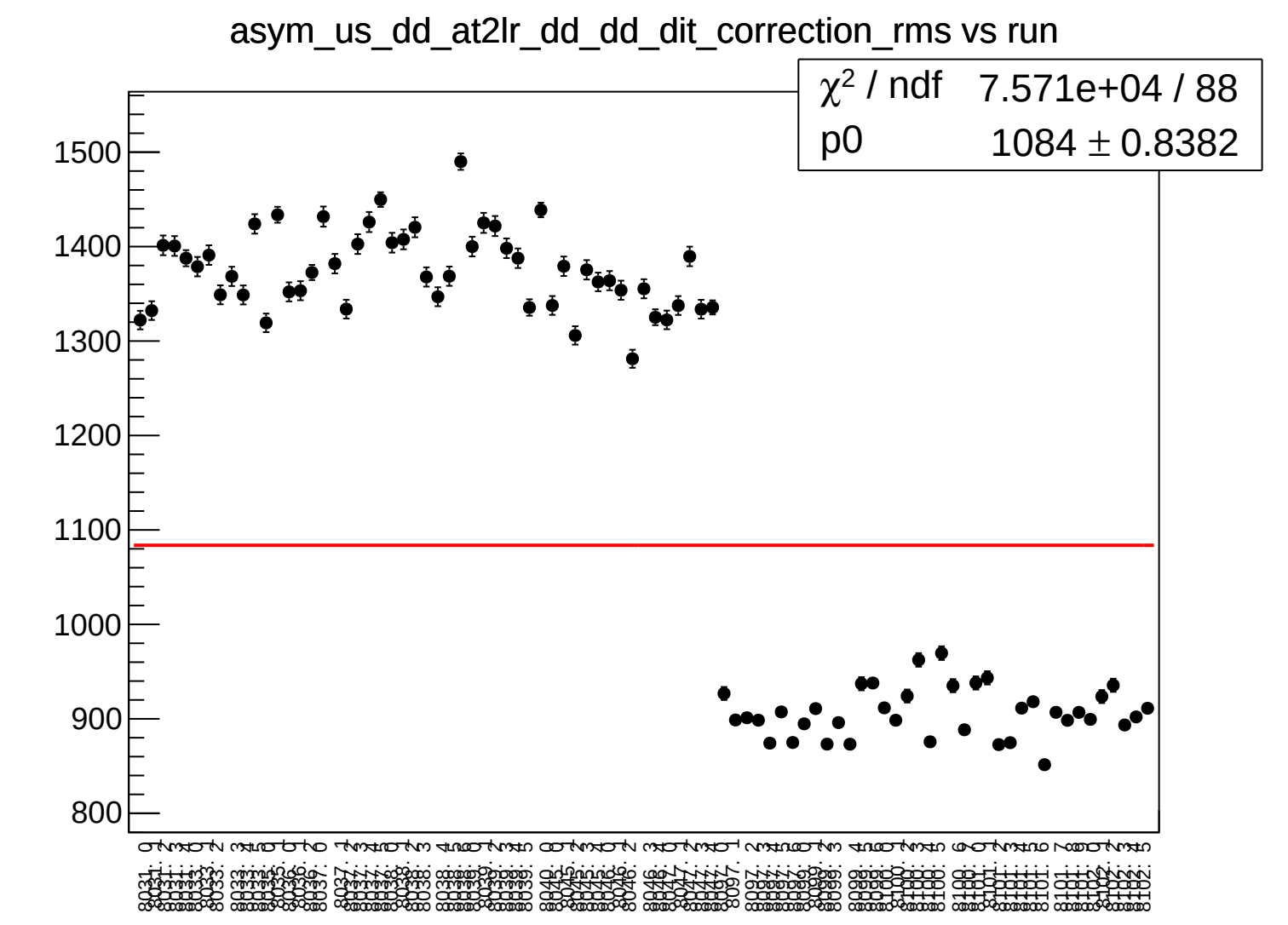

dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 113.4 / 88
p0 −629.8 ± 1625
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 47.86
Std Dev 81.48
2
1
0
−1
−2
−3

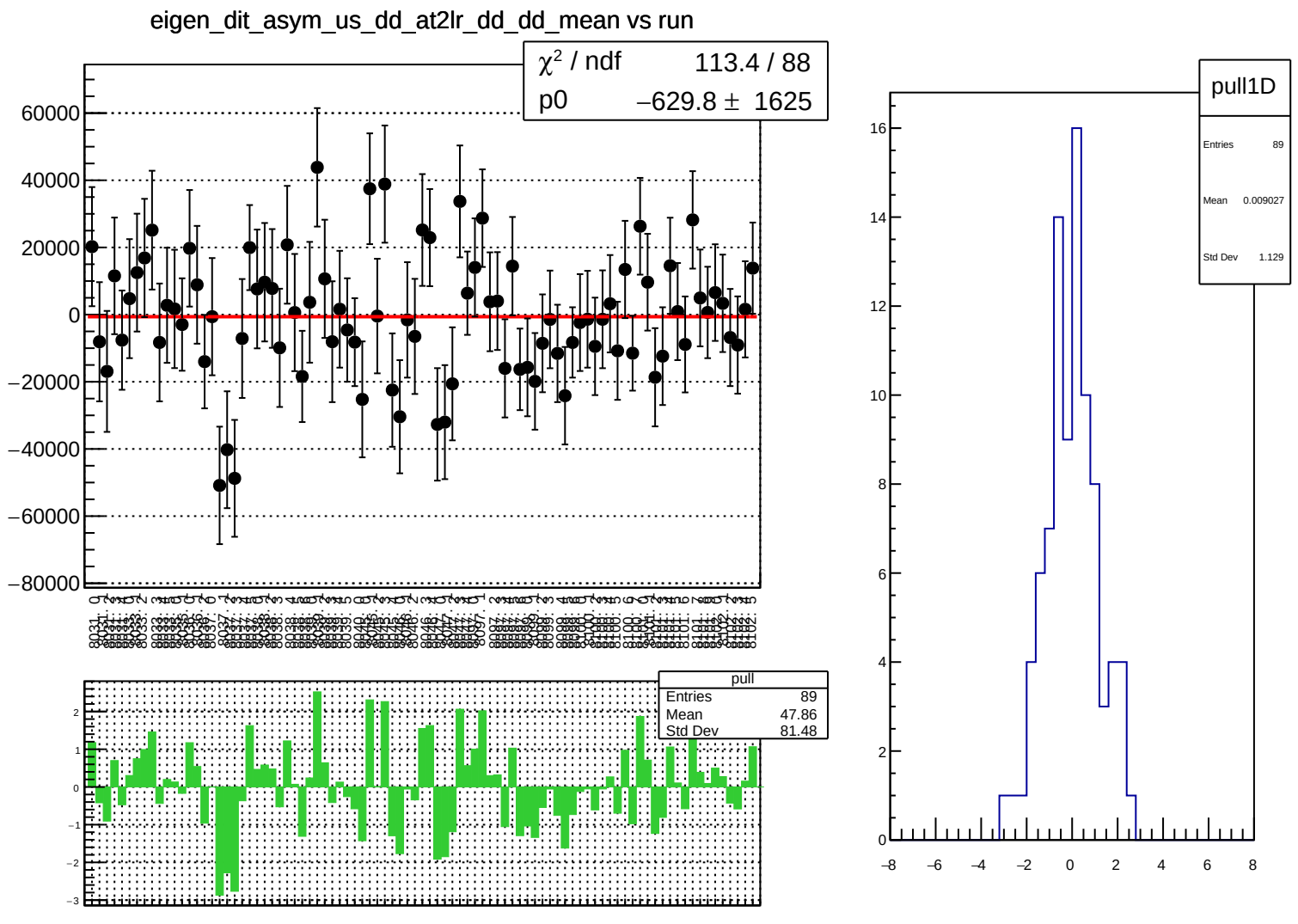

pull1D
Entries 89
Mean 0.009027
Std Dev 1.129
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

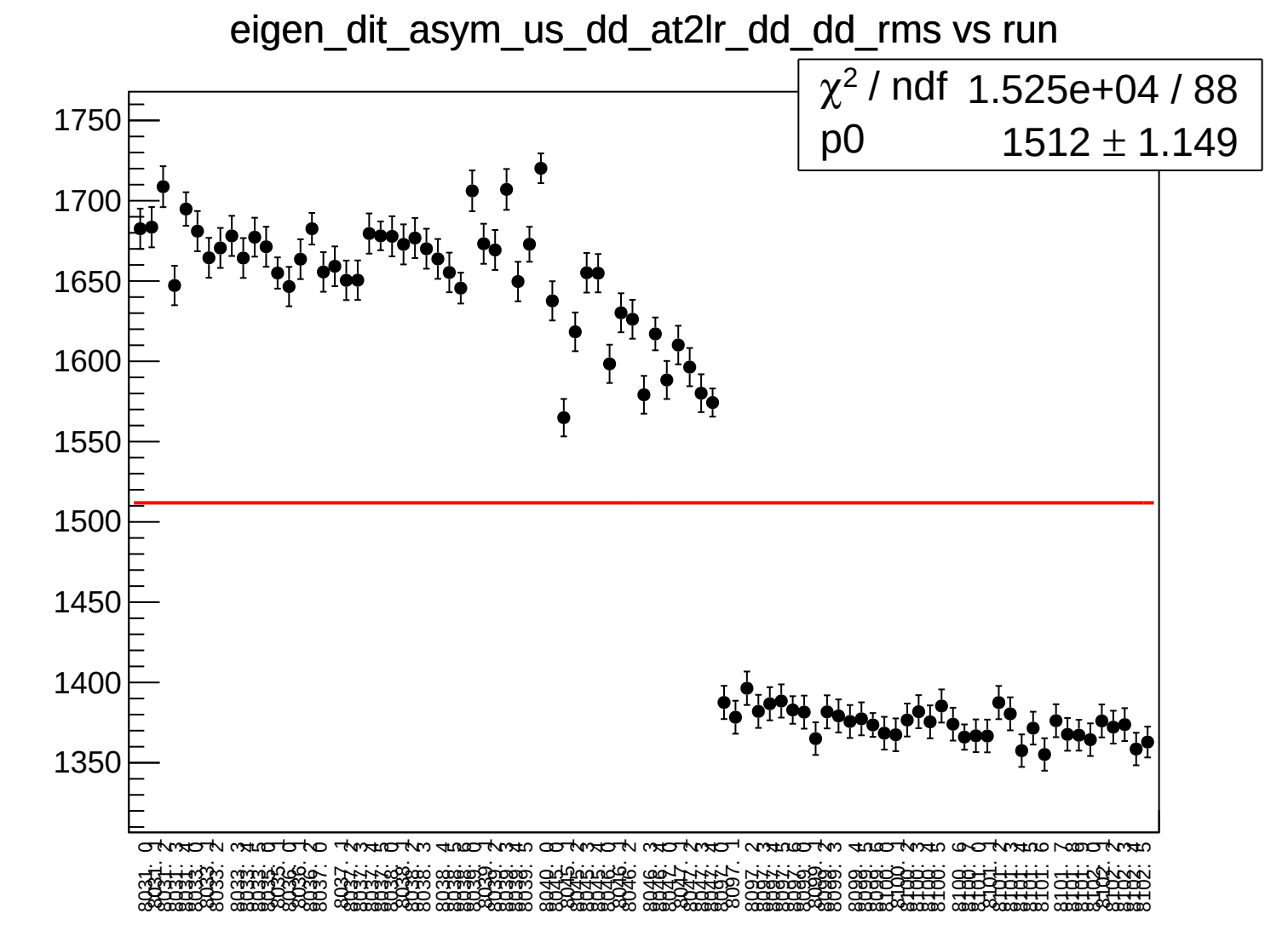

dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 1.525e+04 / 88
p0 1512 ± 1.149
1750
1700
1650
1600
1550
1500
1450
1400
1350

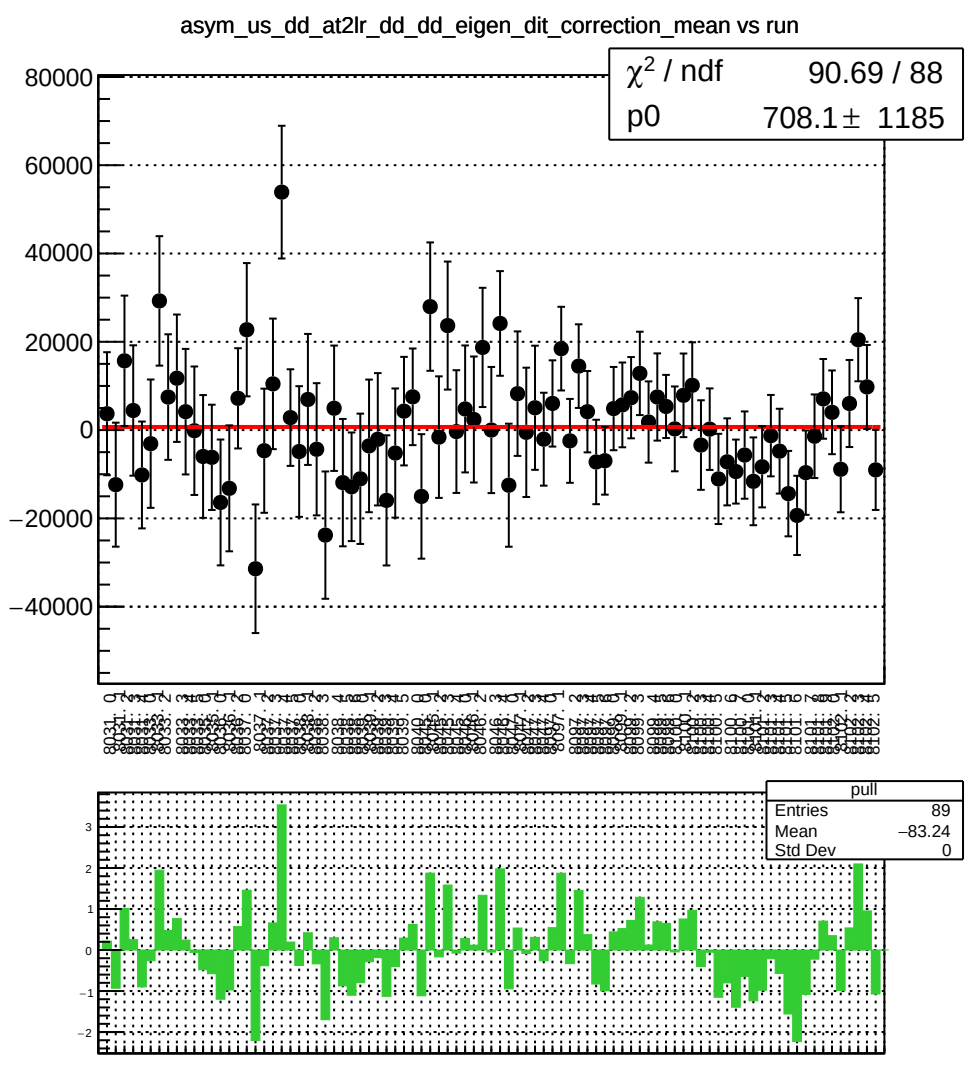

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 90.69 / 88
p0 708.1 ± 1185
80000
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −83.25
Std Dev 0
3
2
1
0
−1
−2

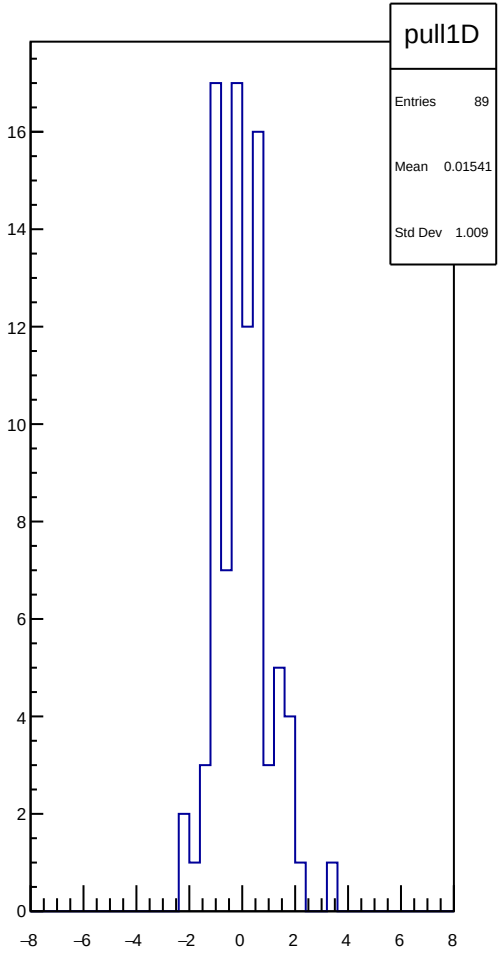

pull1D
Entries 89
Mean 0.01541
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

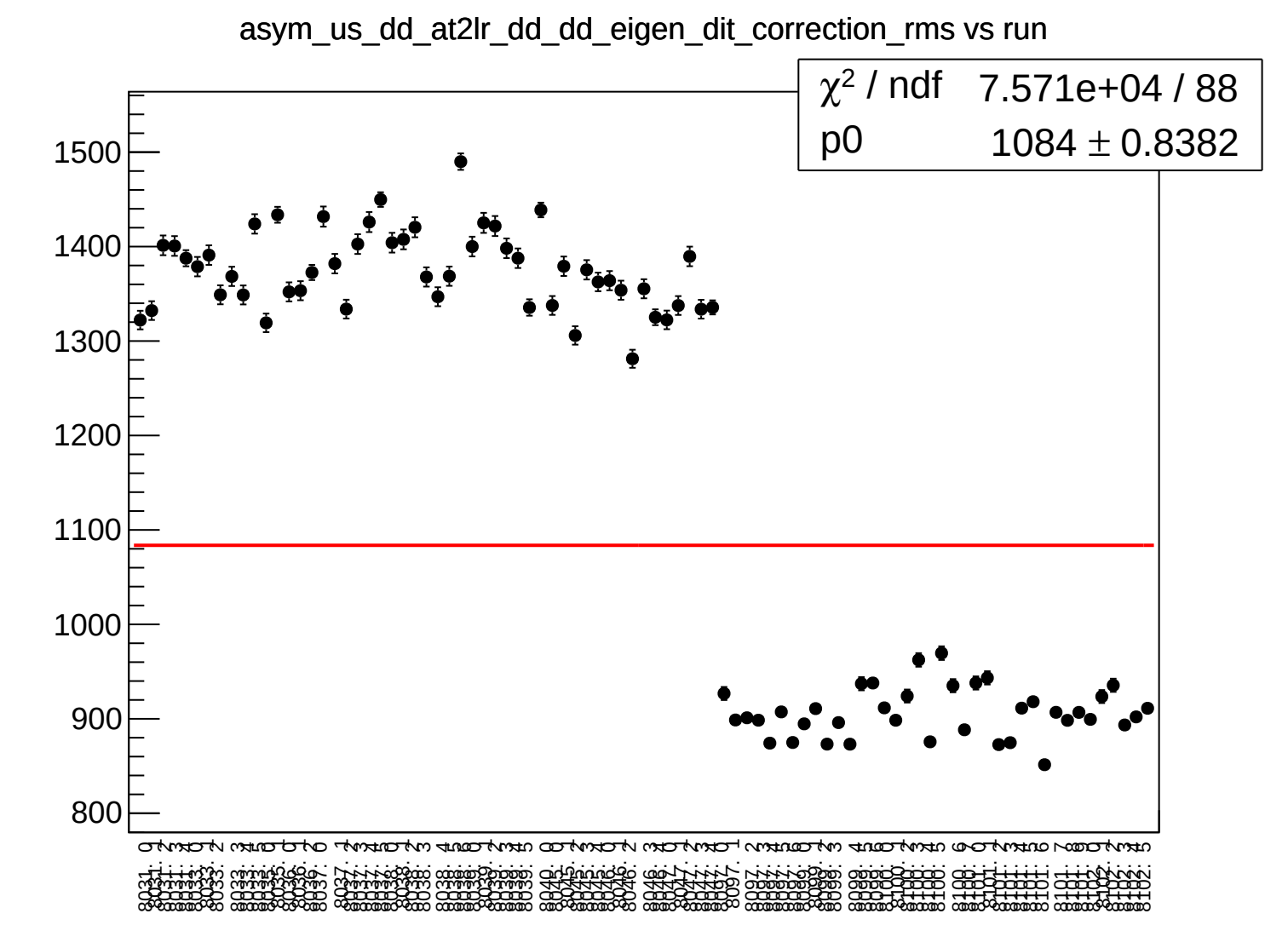

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 7.571e+04 / 88
p0 1084 ± 0.8382
1500
1400
1300
1200
1100
1000
900
800

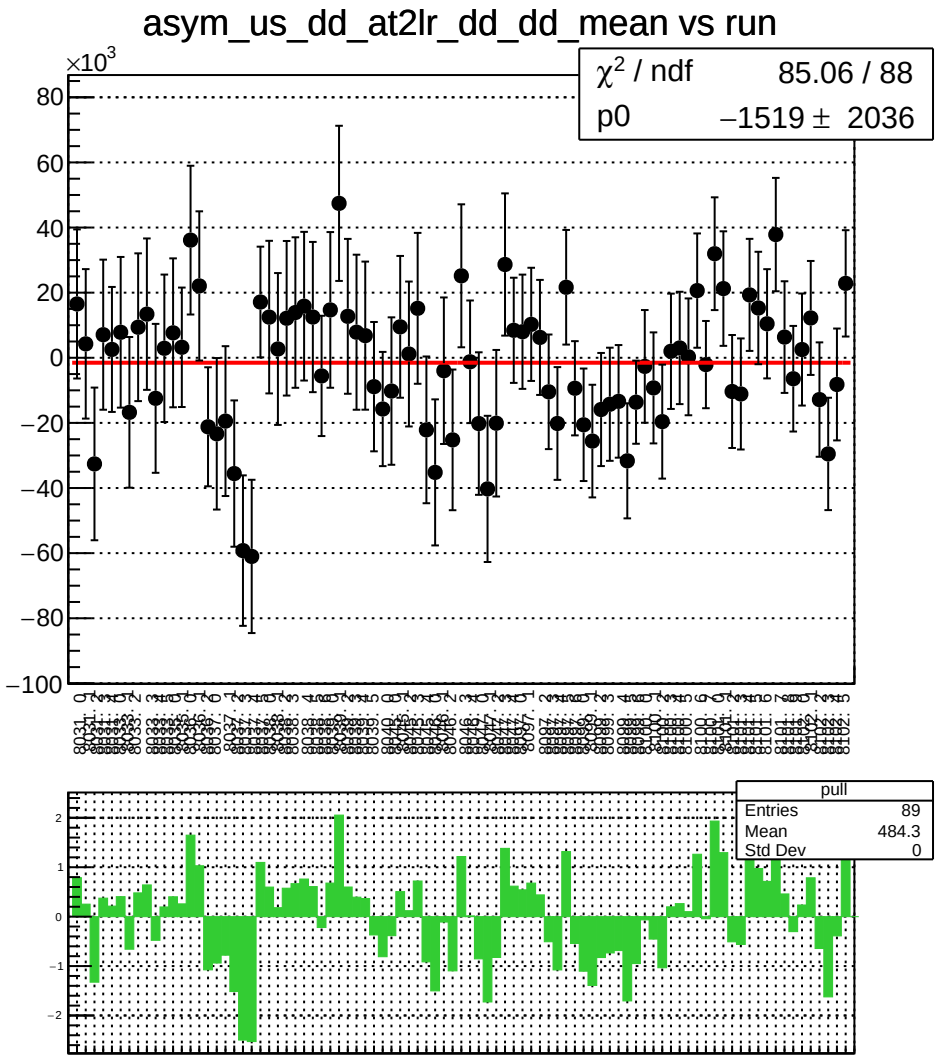

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 113.4 / 88
p0 −629.8 ± 1625
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 47.86
Std Dev 81.48
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.009027
Std Dev 1.129
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

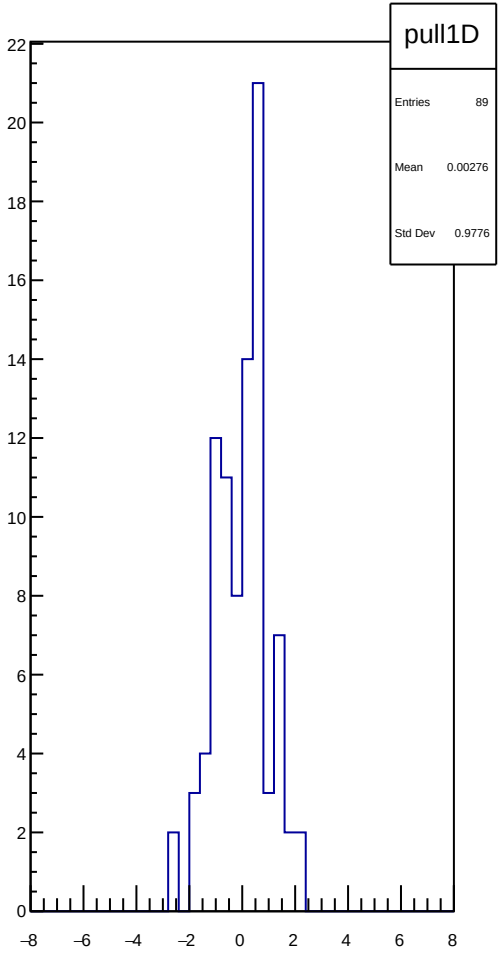

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 1.525e+04 / 88
p0 1512 ± 1.149
1750
1700
1650
1600
1550
1500
1450
1400
1350

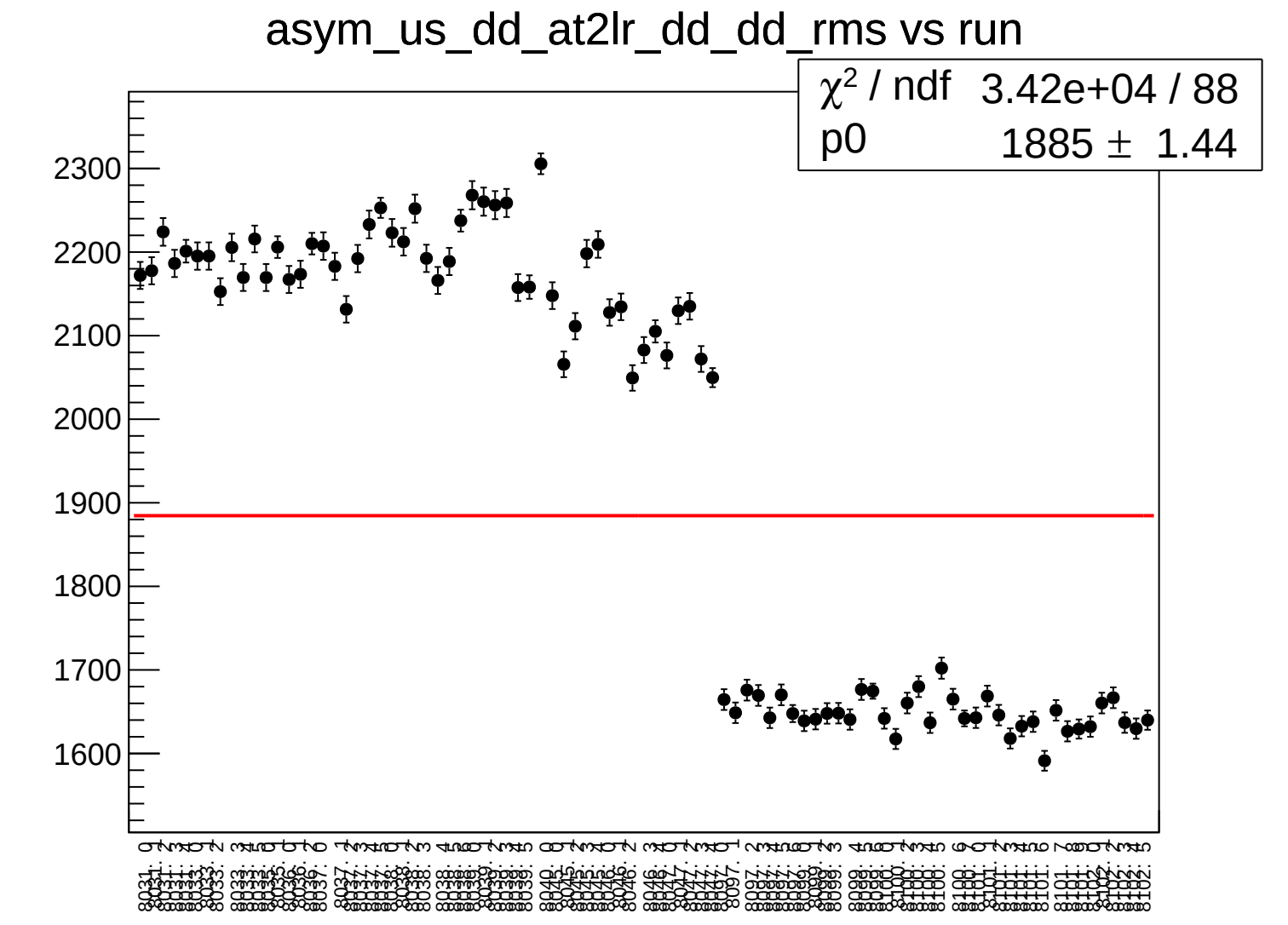

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 90.69 / 88
p0 708.1 ± 1185
80000
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −83.24
Std Dev 0
3
2
1
0
−1
−2

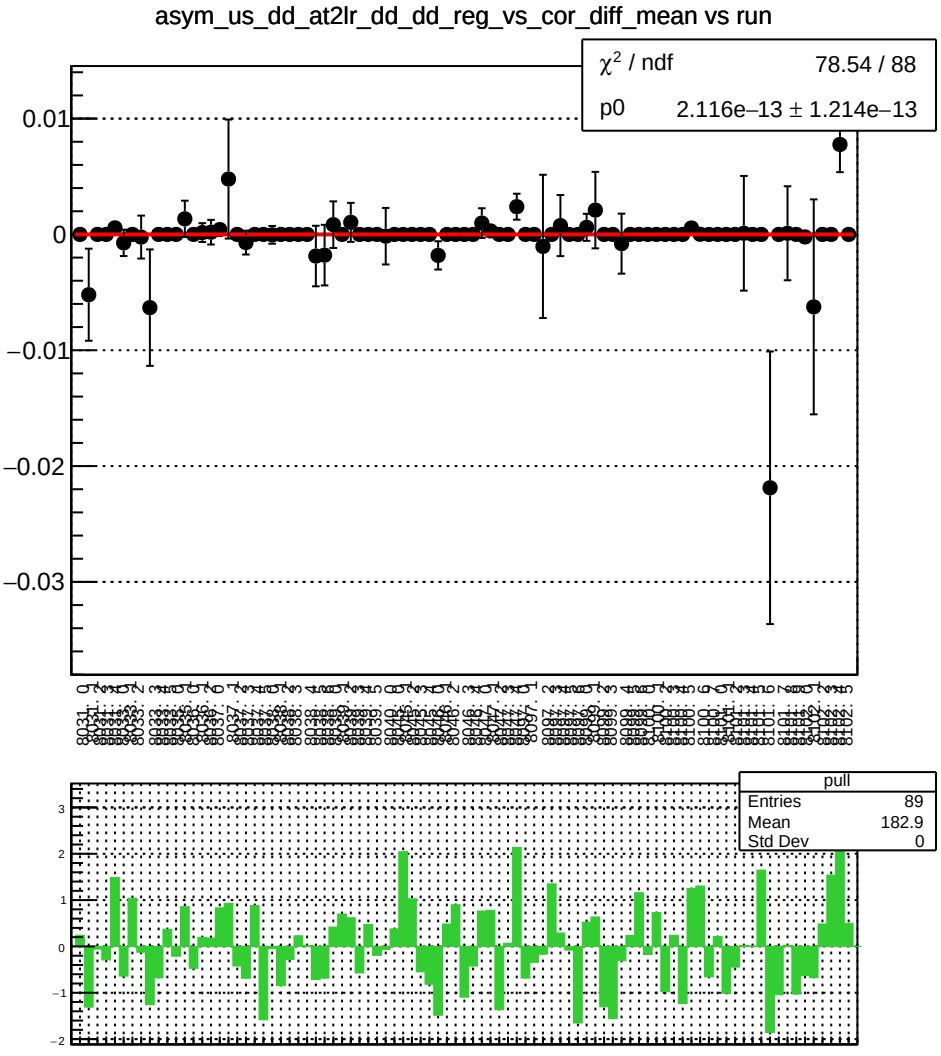

pull1D
Entries 89
Mean 0.01541
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

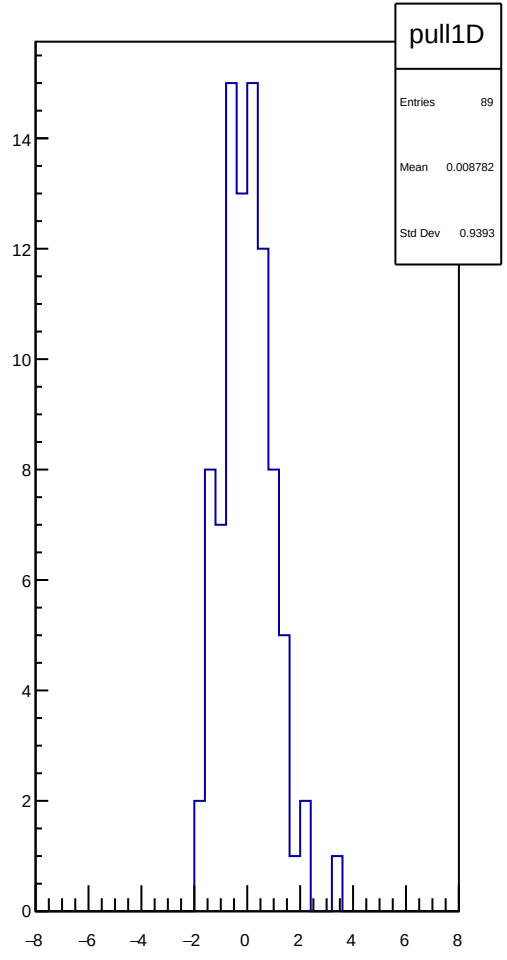

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 7.571e+04 / 88
p0 1084 ± 0.8382
1500
1400
1300
1200
1100
1000
900
800

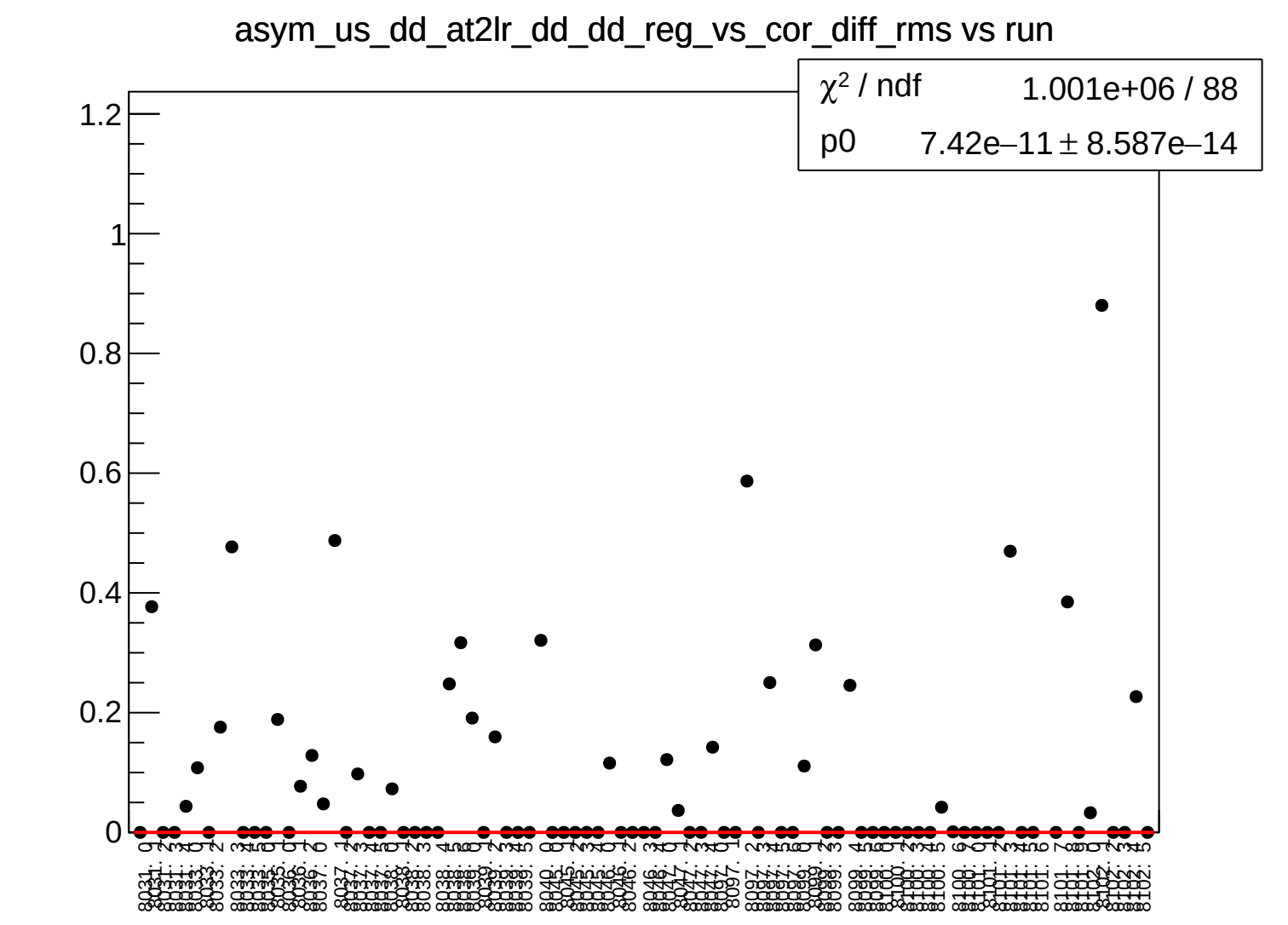

asym_us_dd_at2lr_dd_dd_mean vs run
×10^3
χ² / ndf 85.06 / 88
p0 −1519 ± 2036
pull
Entries 89
Mean 484.3
Std Dev 0

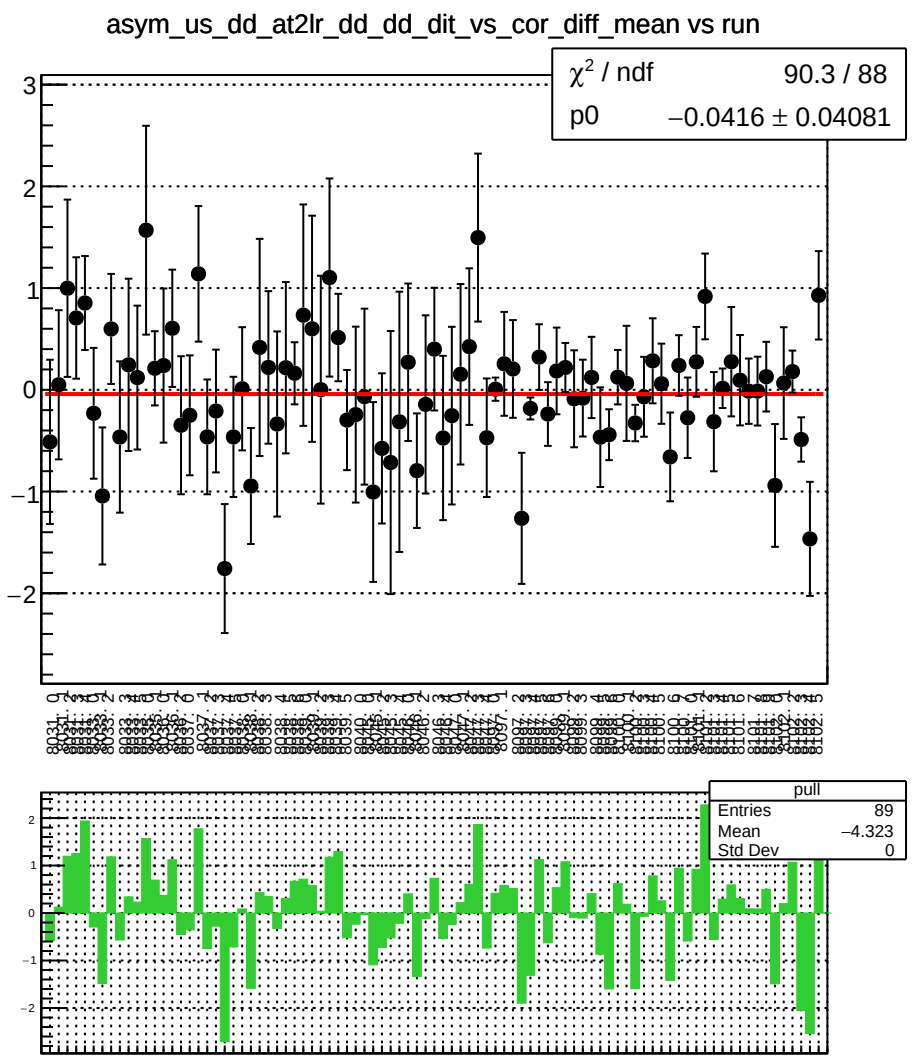

pull1D
Entries 89
Mean 0.00276
Std Dev 0.9776

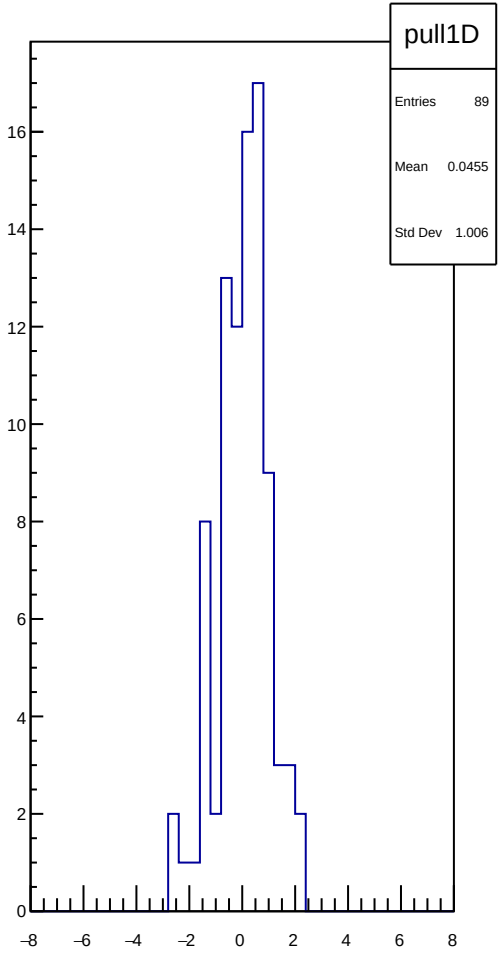

asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 3.42e+04 / 88
p0 1885 ± 1.44
2300
2200
2100
2000
1900
1800
1700
1600

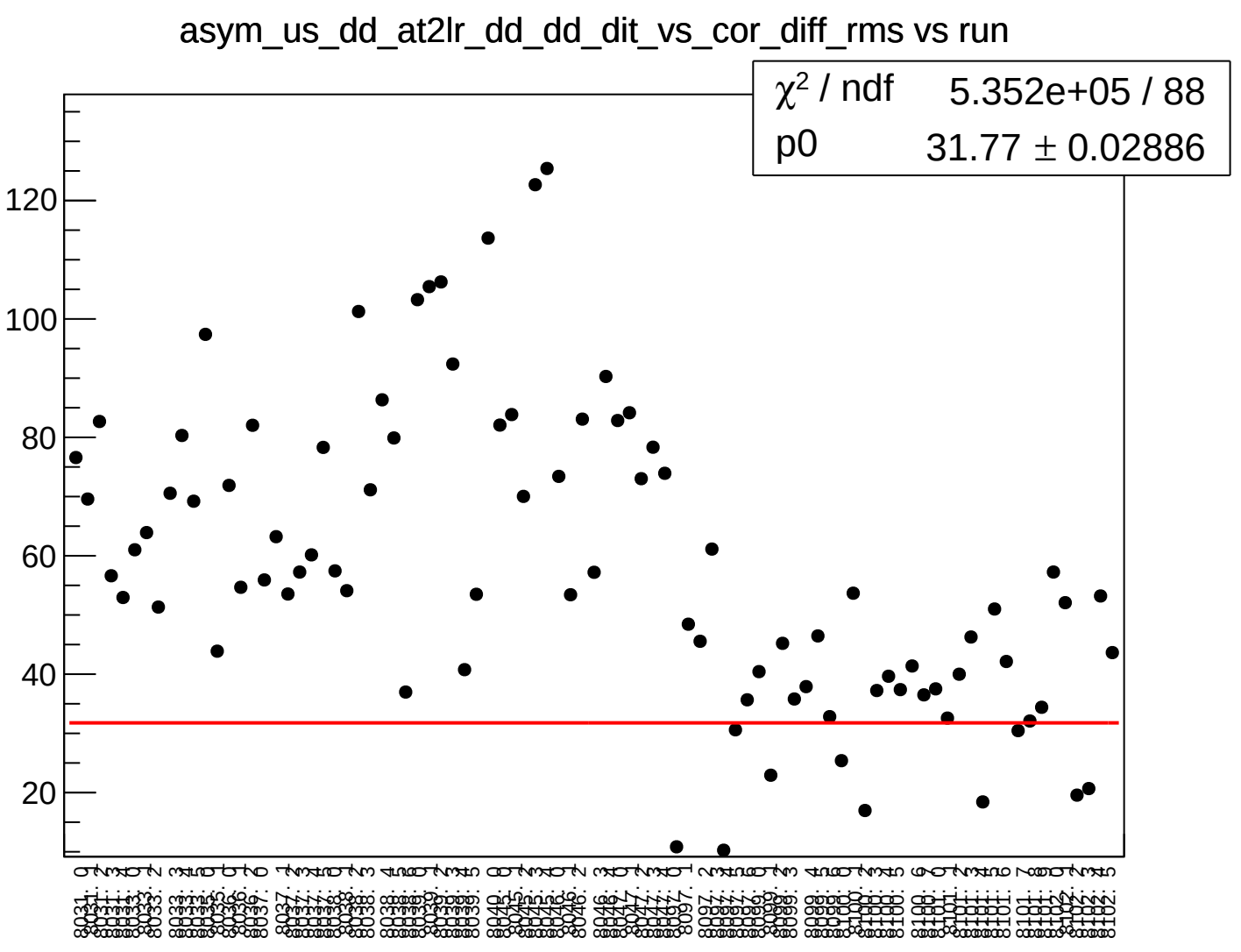

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 78.54 / 88
p0 2.116e−13 ± 1.214e−13
0.01
0
−0.01
−0.02
−0.03
pull
Entries 89
Mean 182.9
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 89
Mean 0.008782
Std Dev 0.9393
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

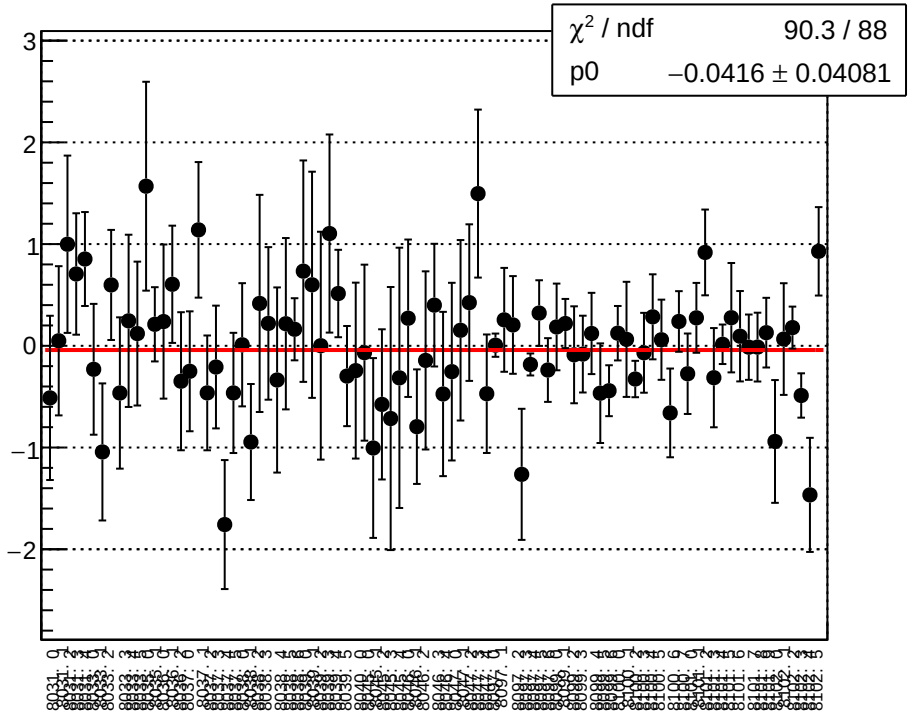

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.001e+06 / 88
p0 7.42e−11 ± 8.587e−14
1.2
1
0.8
0.6
0.4
0.2
0

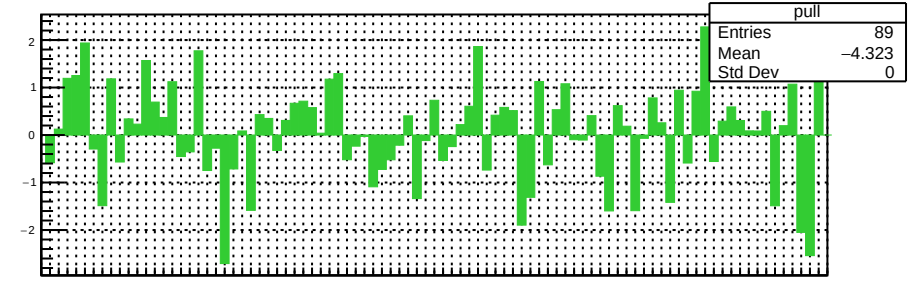

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 90.3 / 88
p0 −0.0416 ± 0.04081
pull
Entries 89
Mean −4.323
Std Dev 0

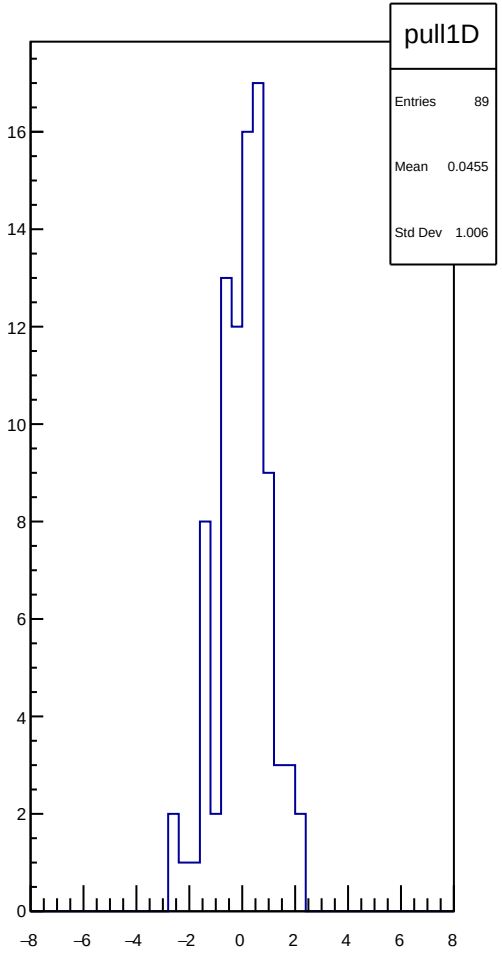

pull1D
Entries 89
Mean 0.0455
Std Dev 1.006

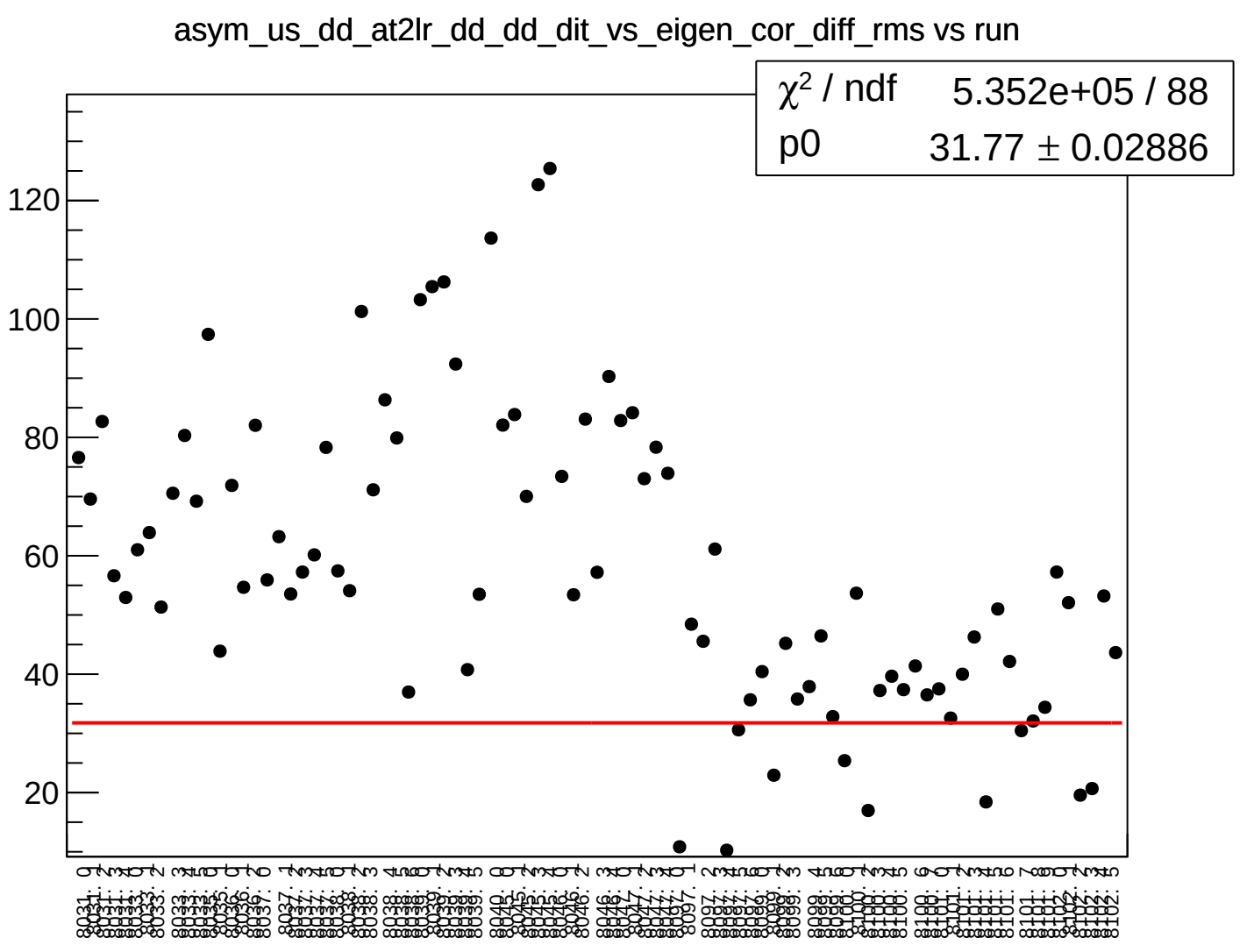

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.352e+05 / 88
p0 31.77 ± 0.02886
120
100
80
60
40
20

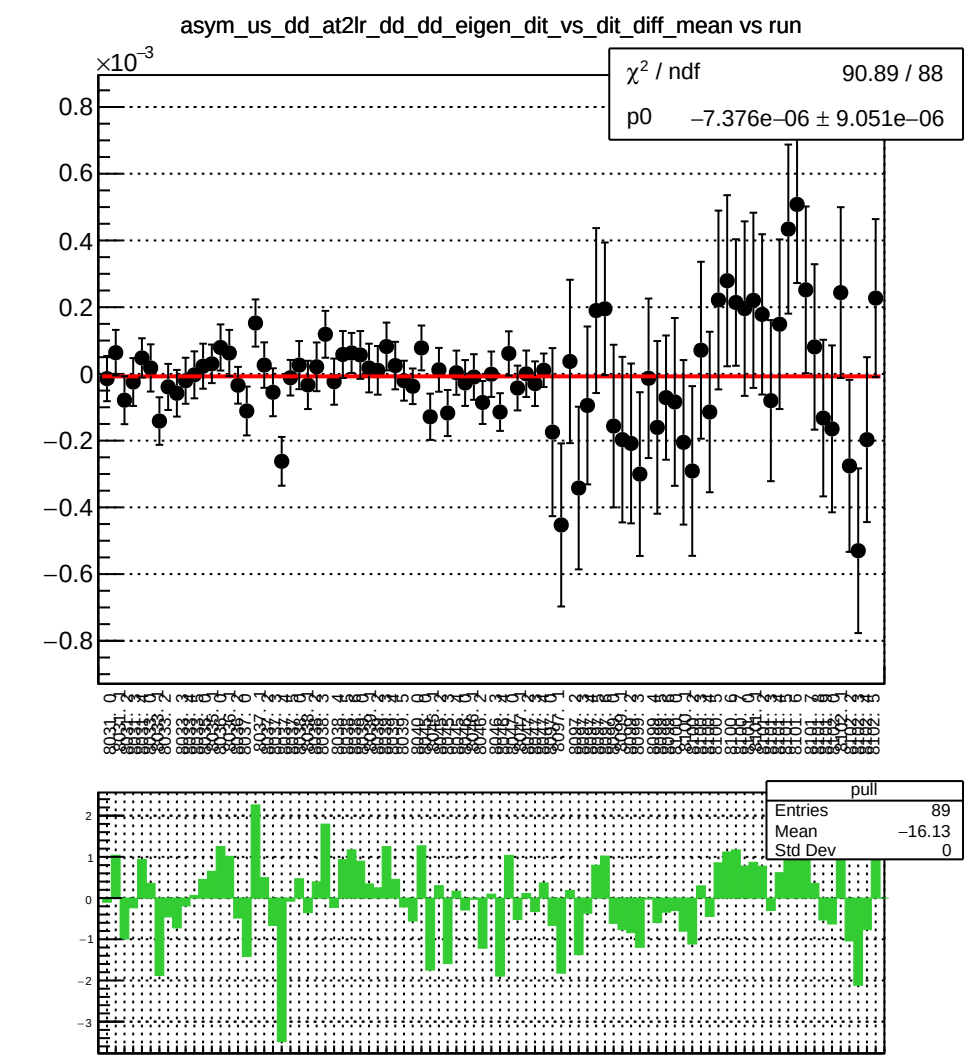
asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run

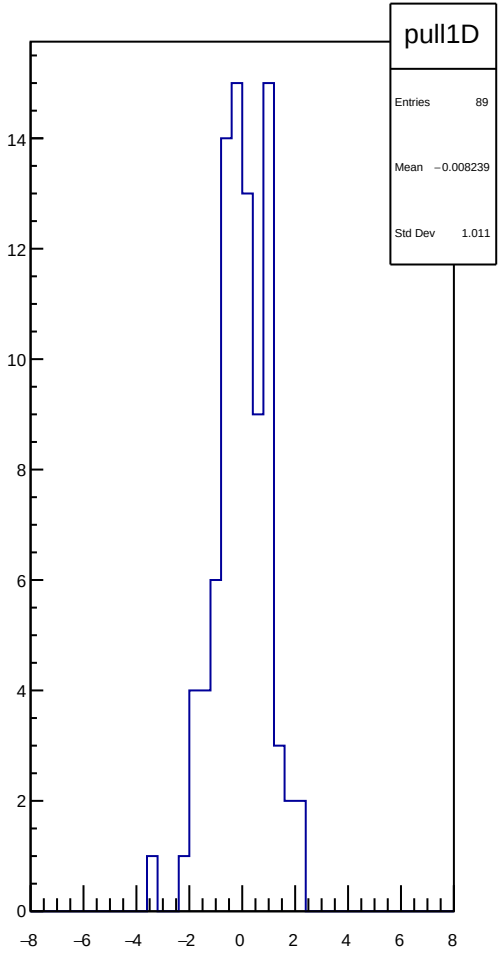


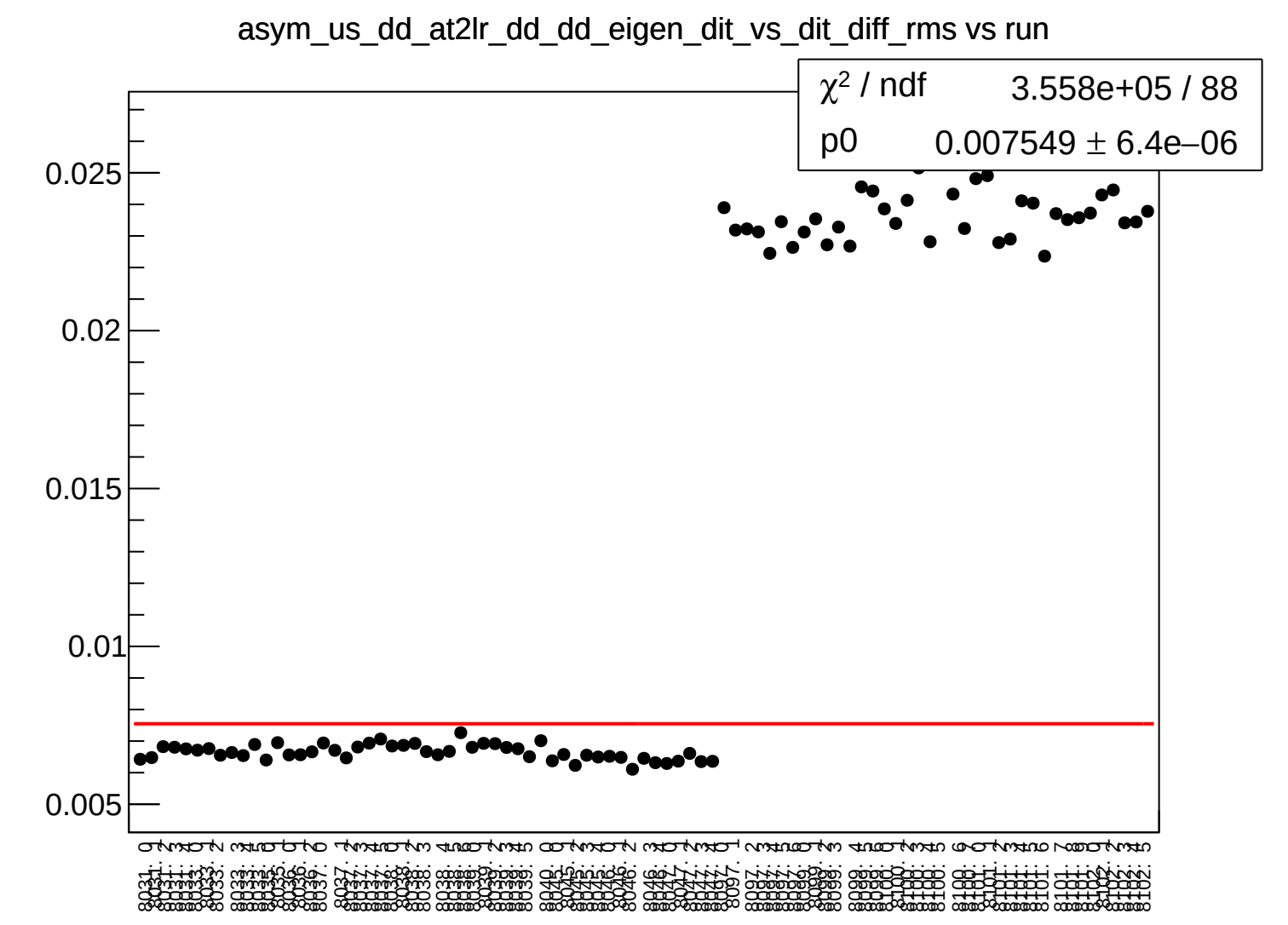



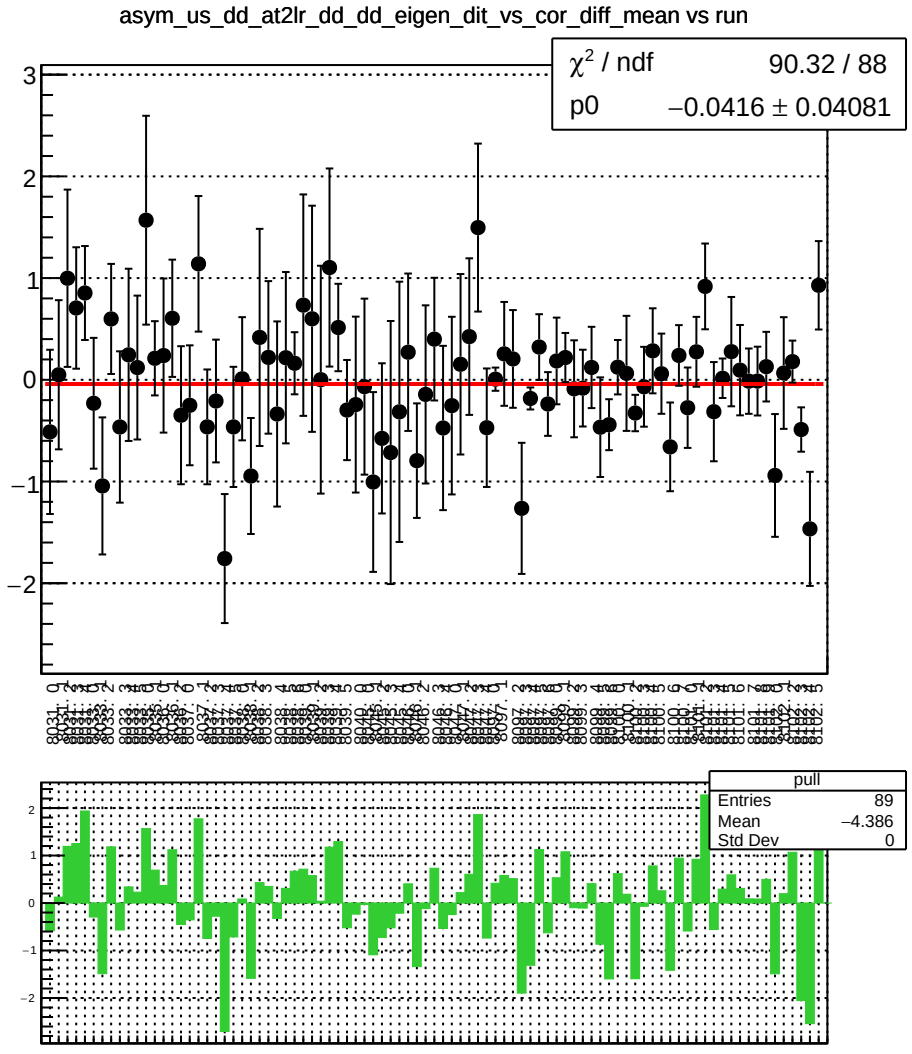



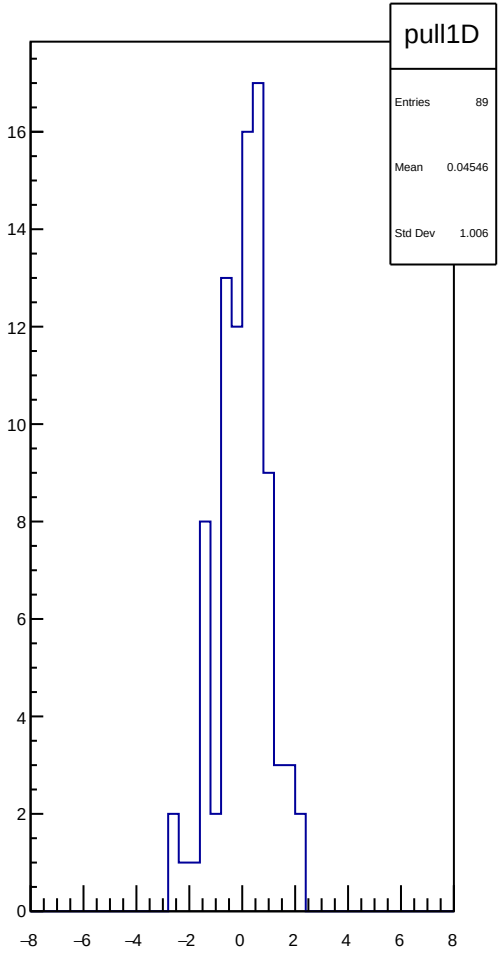

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.352e+05 / 88
p0 31.77 ± 0.02886
120
100
80
60
40
20

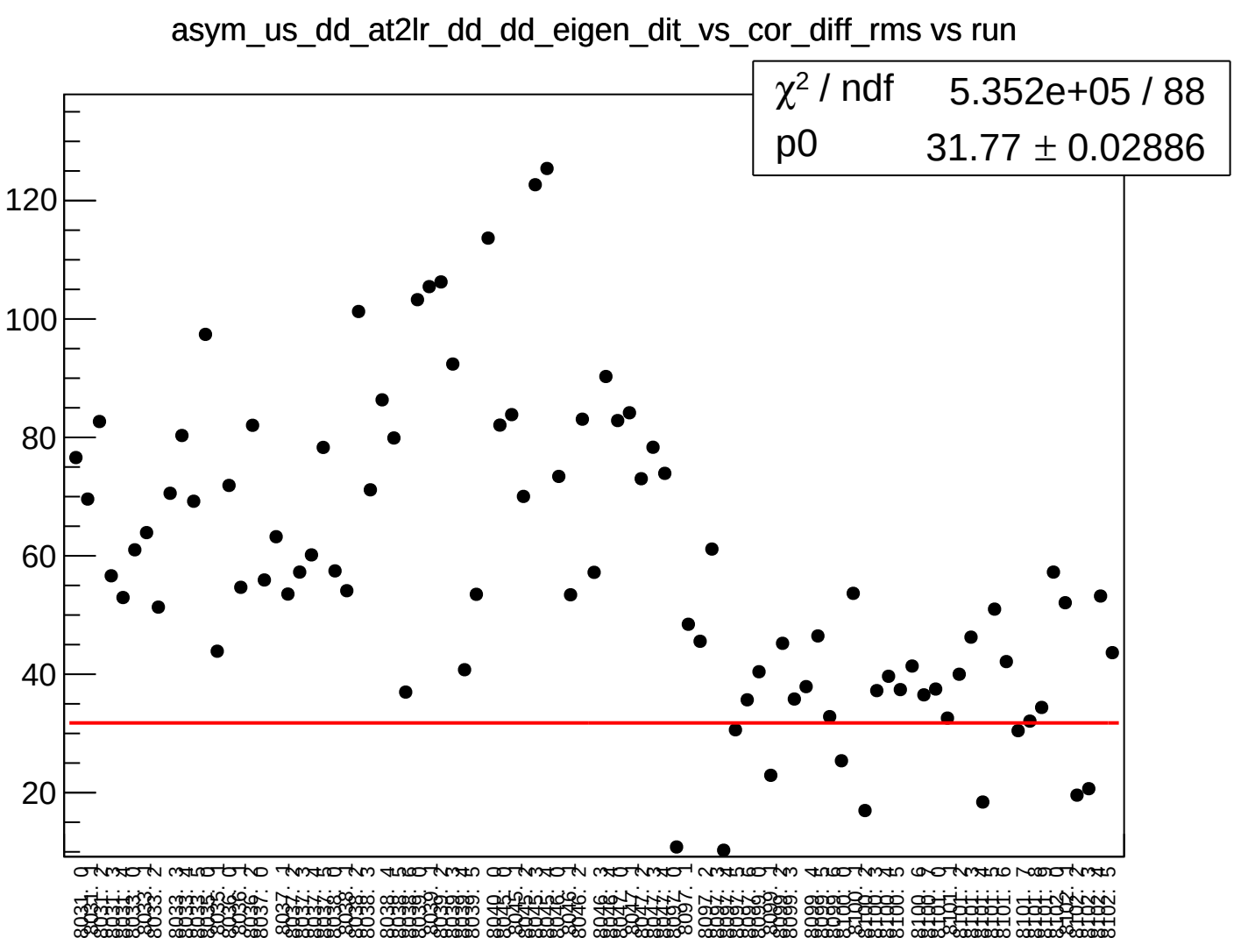

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.89 / 88
p0 −7.376e−06 ± 9.051e−06
pull
Entries 89
Mean −16.13
Std Dev 0

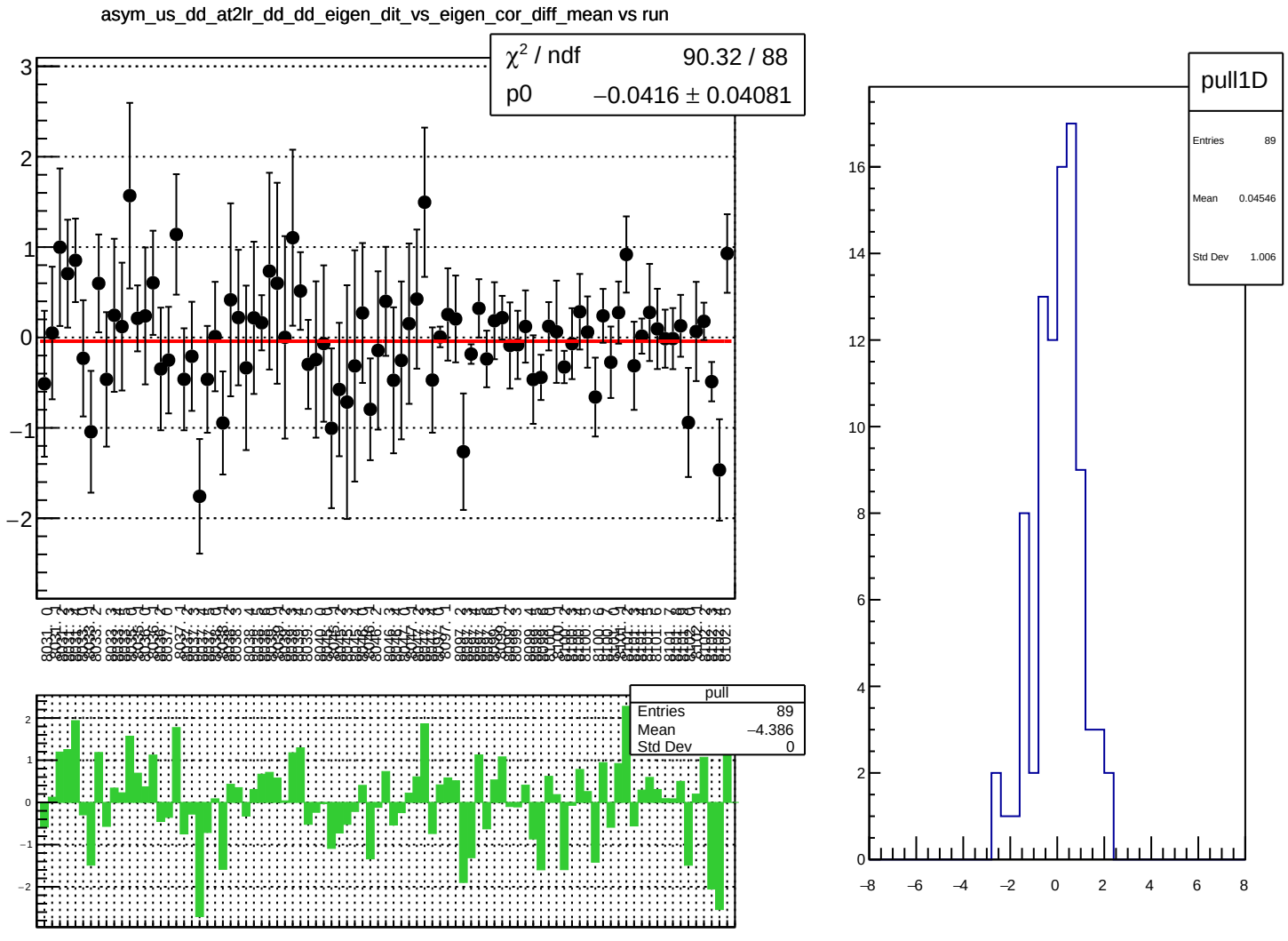

pull1D
Entries 89
Mean −0.008239
Std Dev 1.011

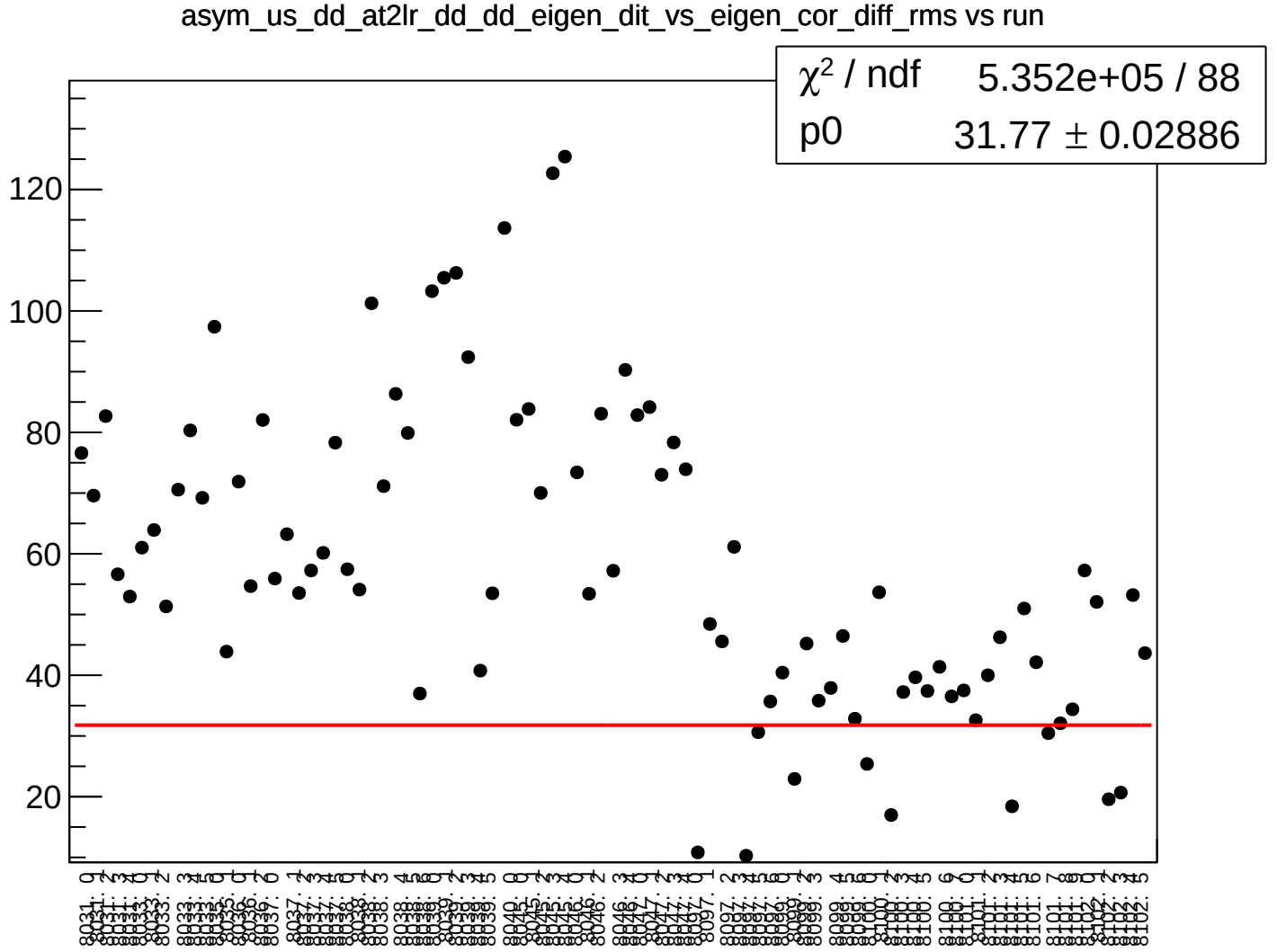

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.558e+05 / 88
p0 0.007549 ± 6.4e−06
0.025
0.02
0.015
0.01
0.005

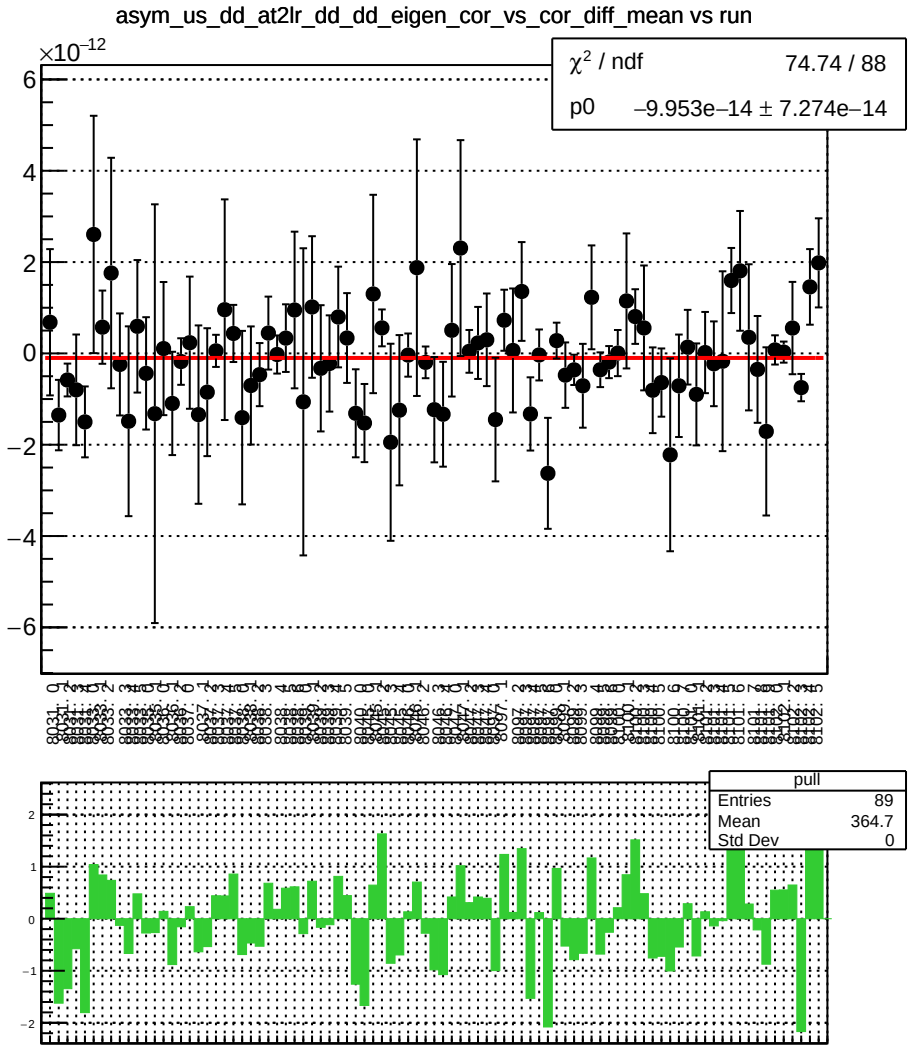

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.32 / 88
p0 −0.0416 ± 0.04081
pull
Entries 89
Mean −4.386
Std Dev 0

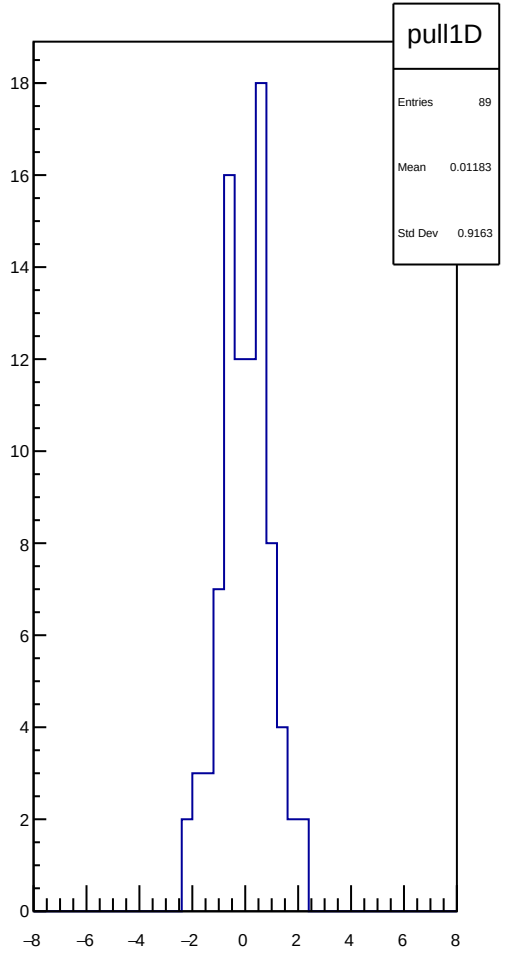

pull1D
Entries 89
Mean 0.04546
Std Dev 1.006

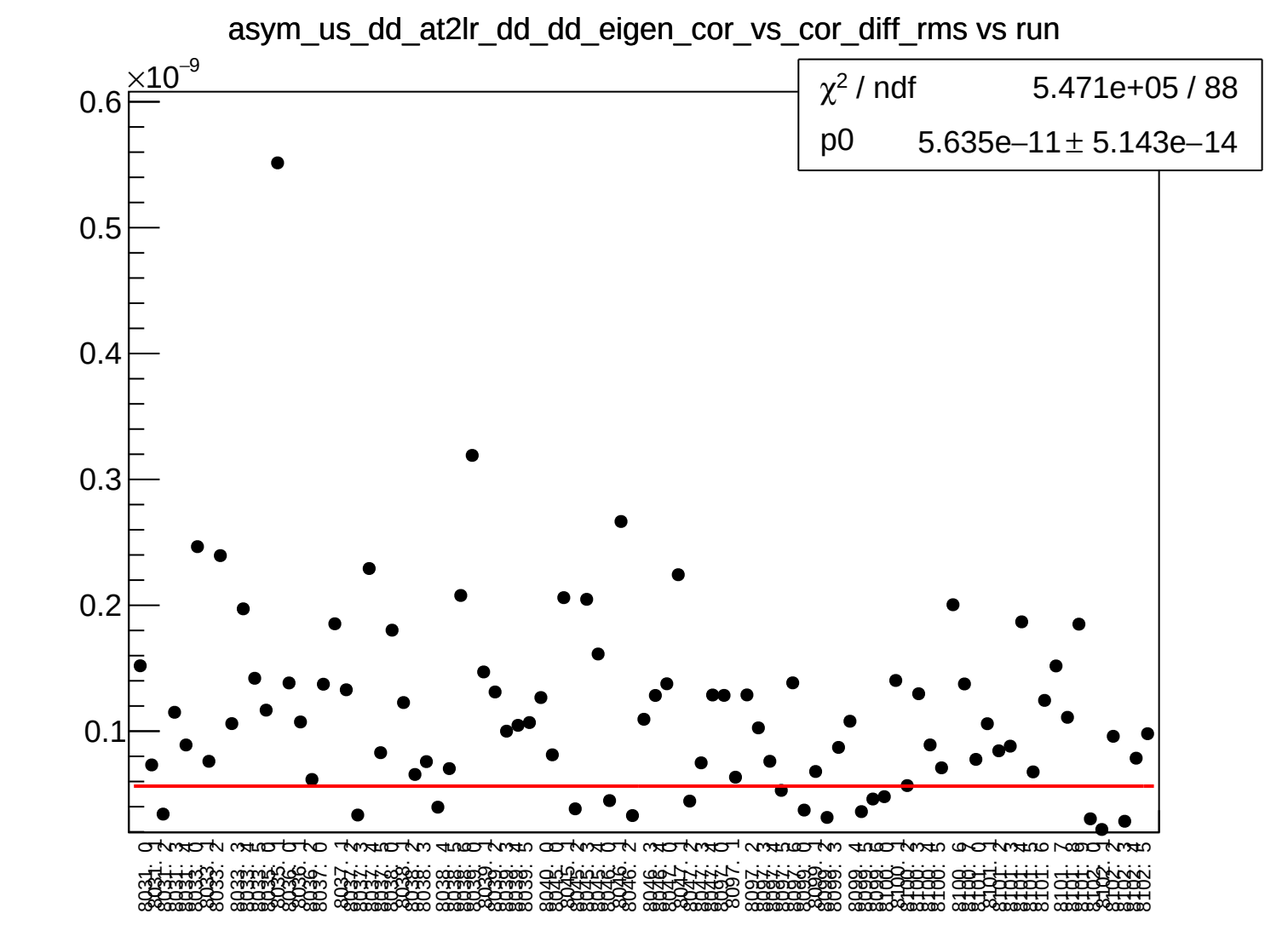

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.352e+05 / 88
p0 31.77 ± 0.02886
120
100
80
60
40
20

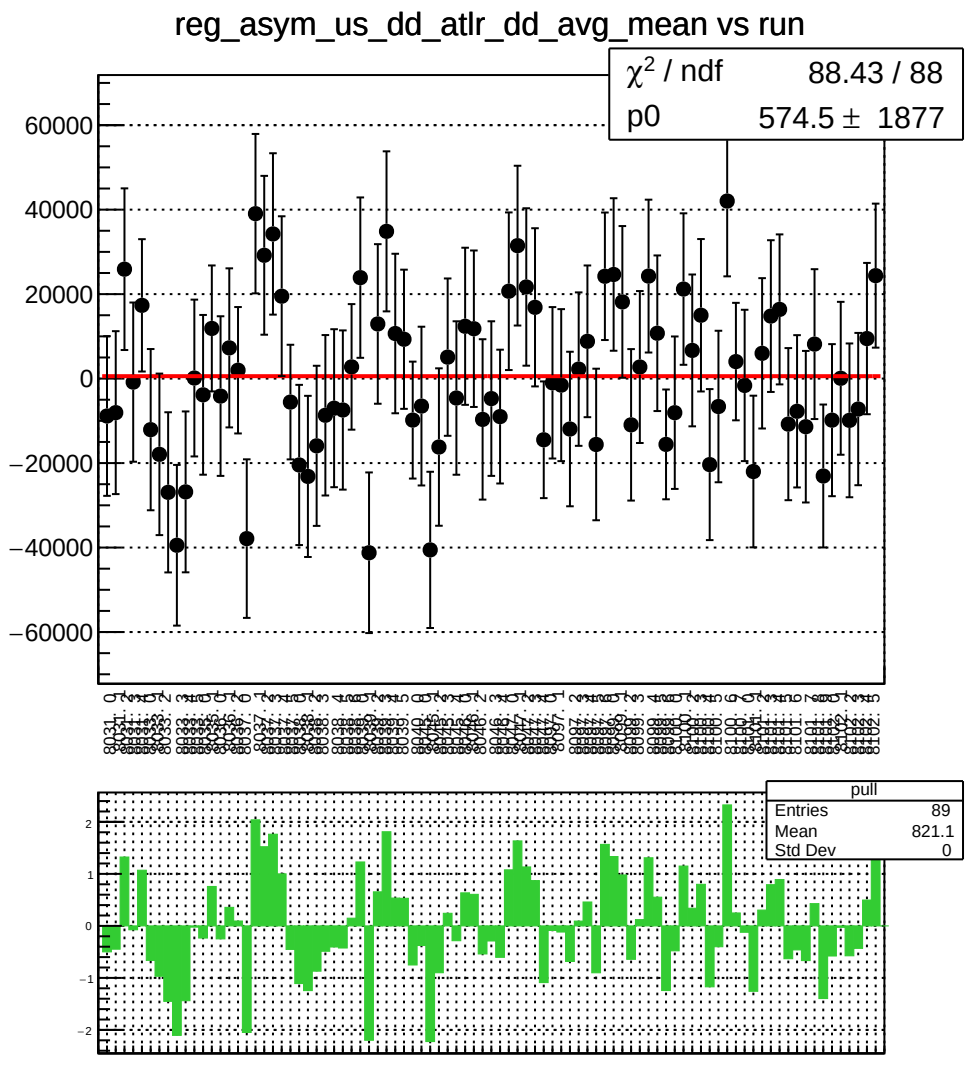

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.32 / 88
p0 −0.0416 ± 0.04081
pull
Entries 89
Mean −4.386
Std Dev 0
pull1D
Entries 89
Mean 0.04546
Std Dev 1.006

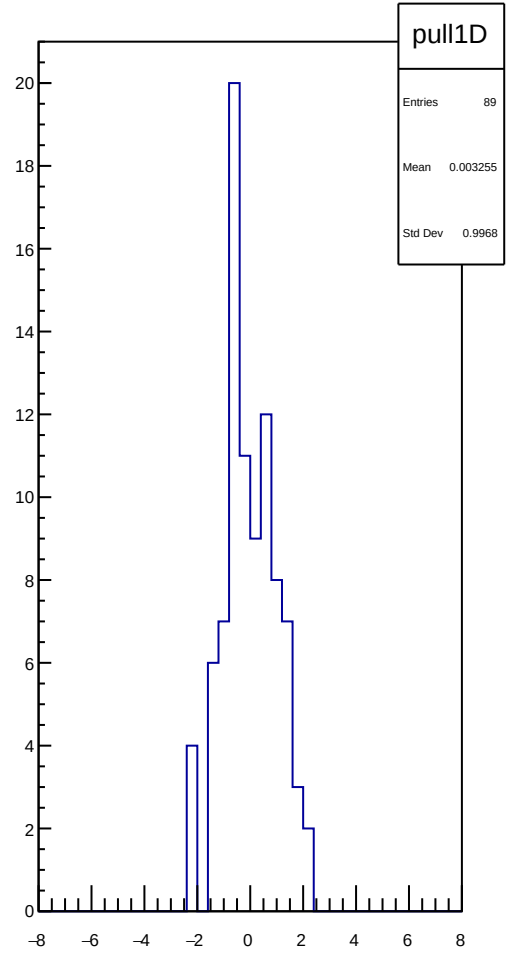

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.352e+05 / 88
p0 31.77 ± 0.02886
120
100
80
60
40
20

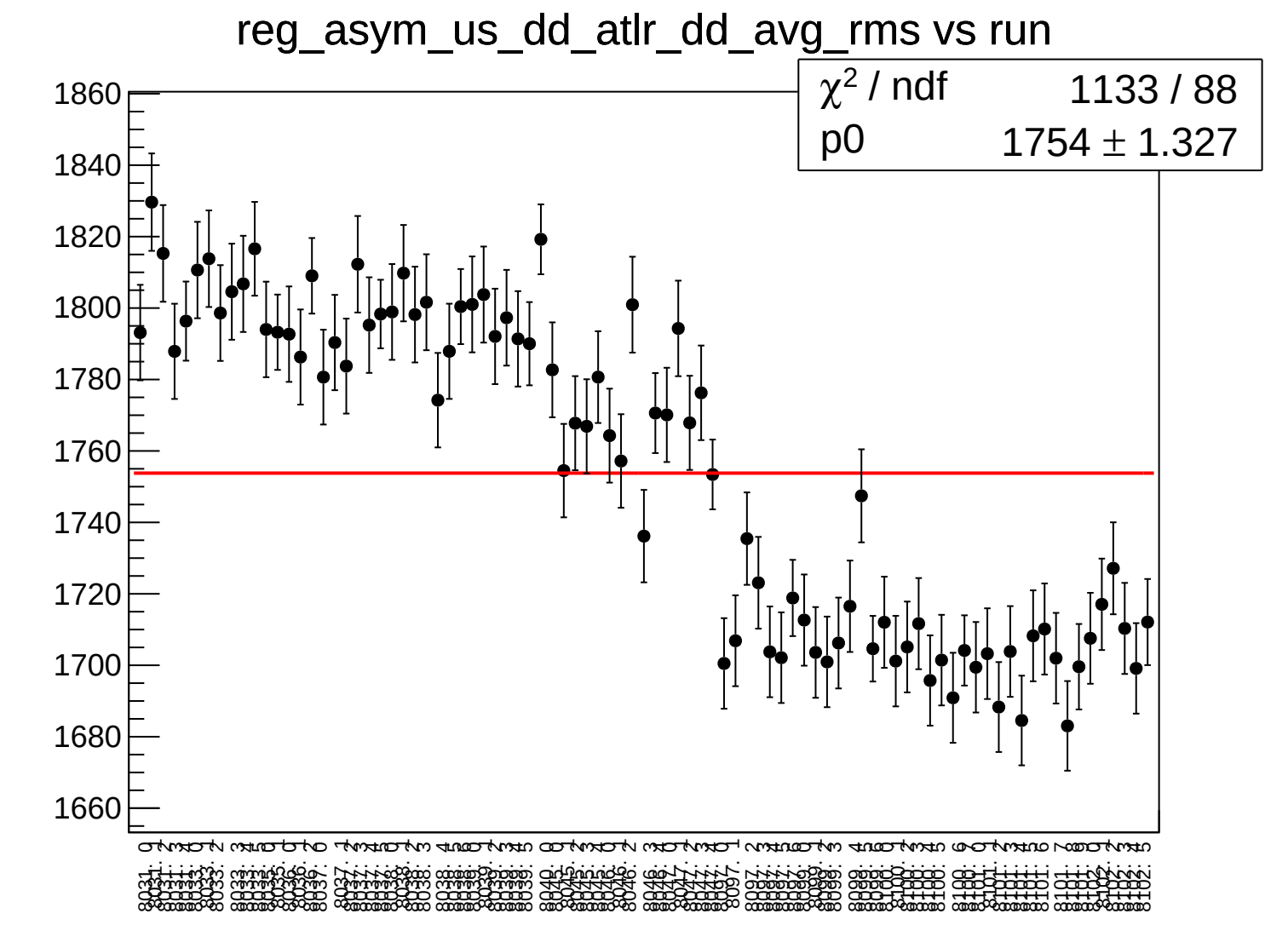

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.74 / 88
p0 −9.953e−14 ± 7.274e−14
pull
Entries 89
Mean 364.7
Std Dev 0

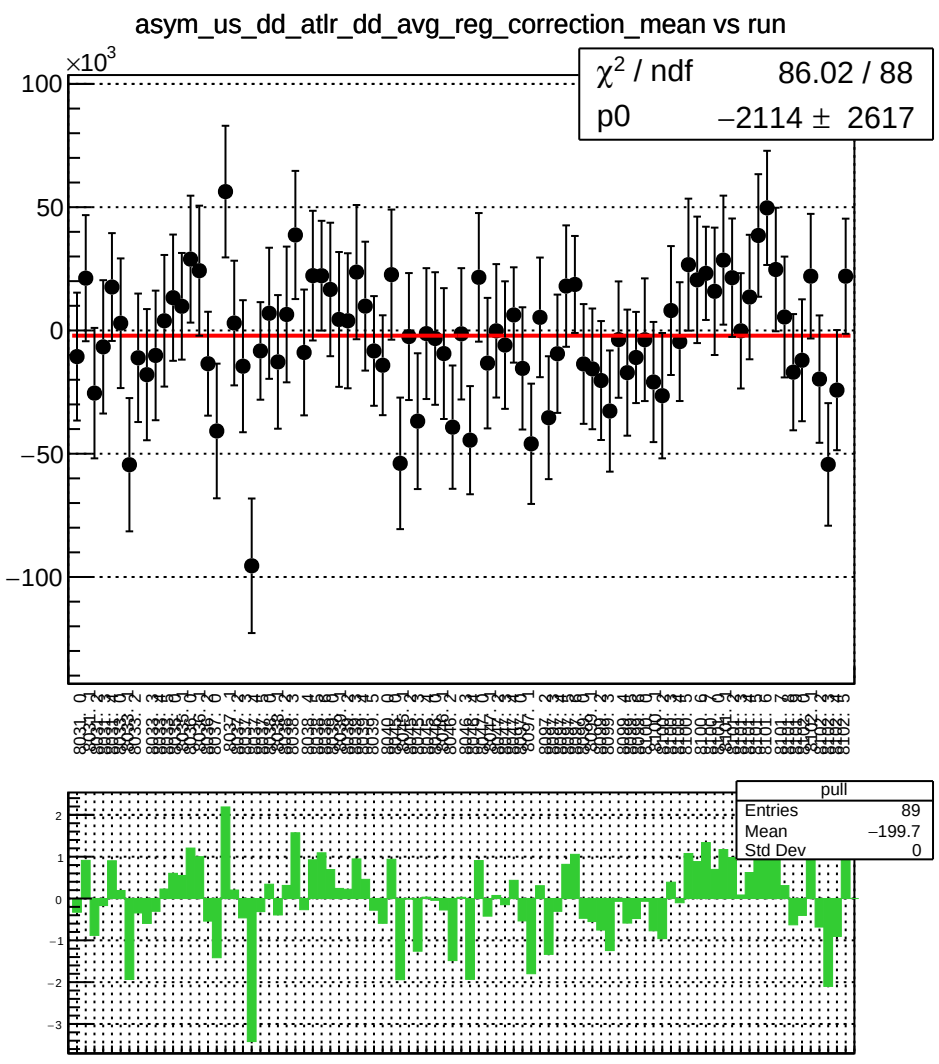

pull1D
Entries 89
Mean 0.01183
Std Dev 0.9163

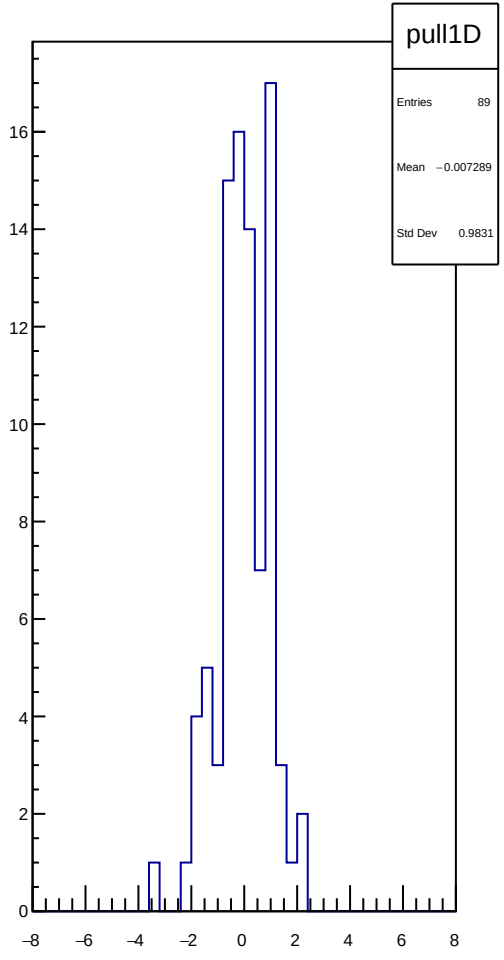

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 5.471e+05 / 88
p0 5.635e−11 ± 5.143e−14

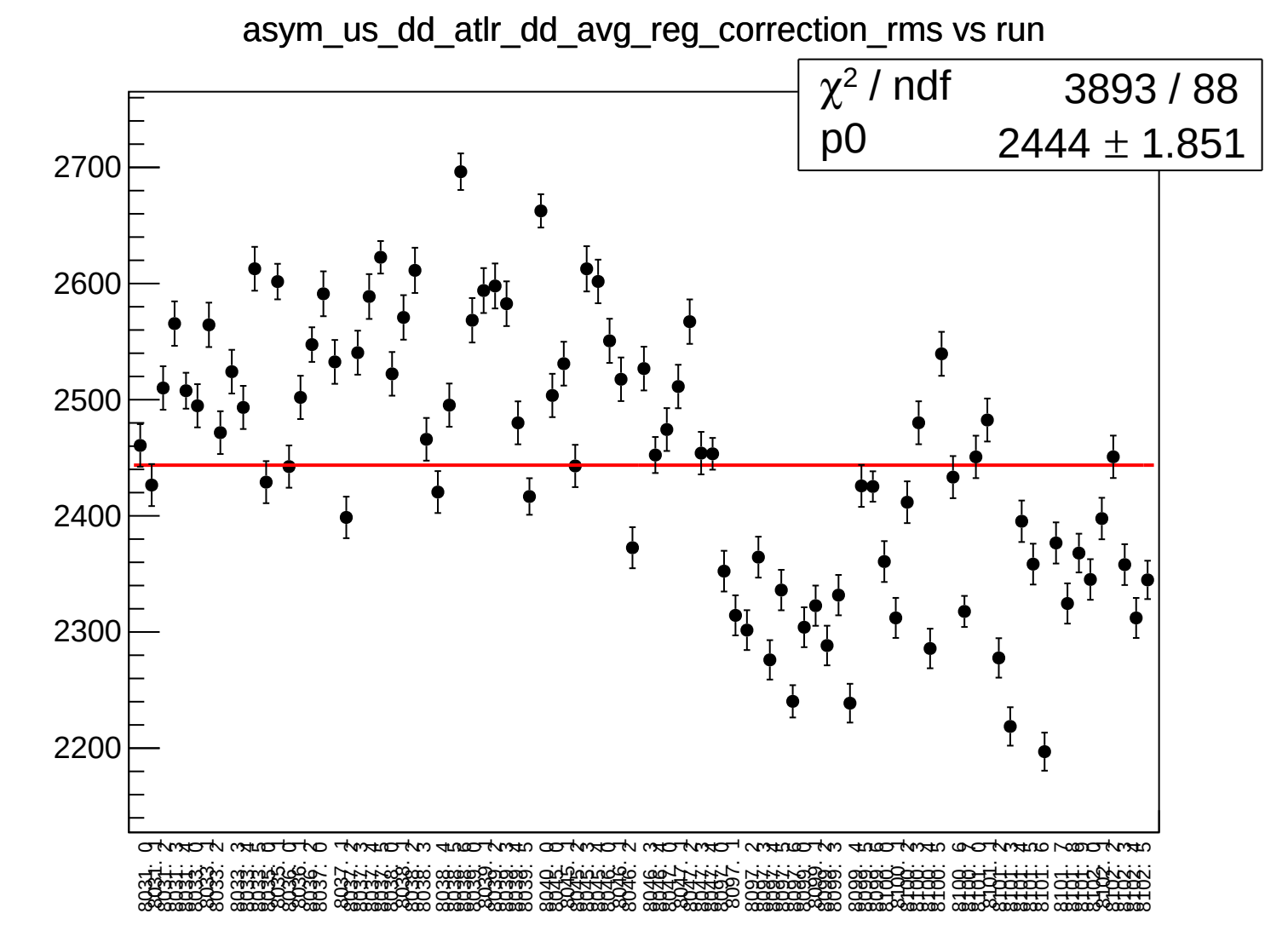

reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 88.43 / 88
p0 574.5 ± 1877
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 821.1
Std Dev 0
2
1
0
−1
−2

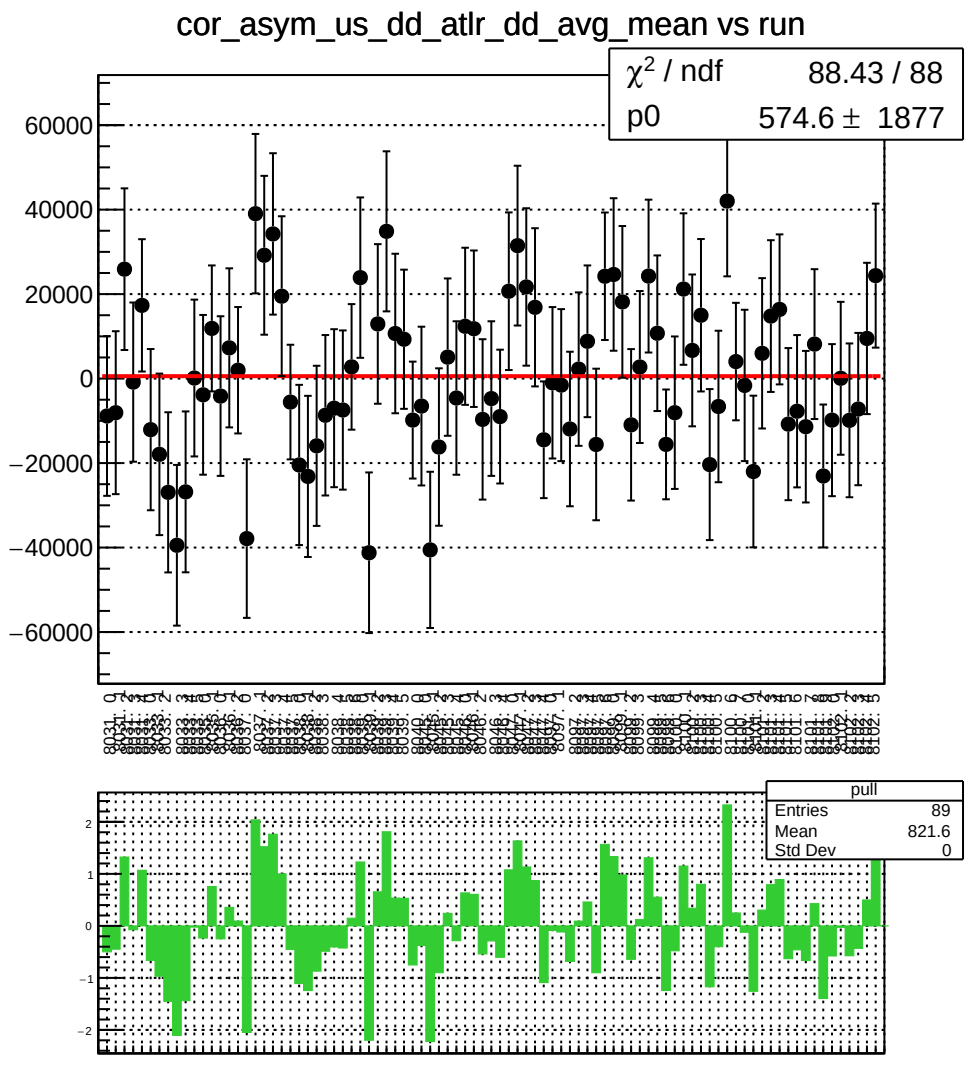

pull1D
Entries 89
Mean 0.003255
Std Dev 0.9968
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

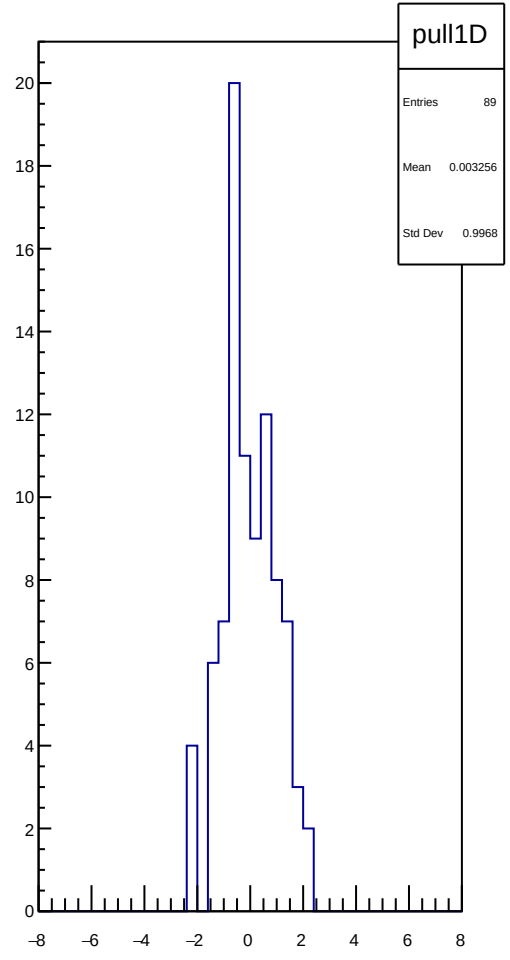

reg_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 1133 / 88
p0 1754 ± 1.327
1860
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660

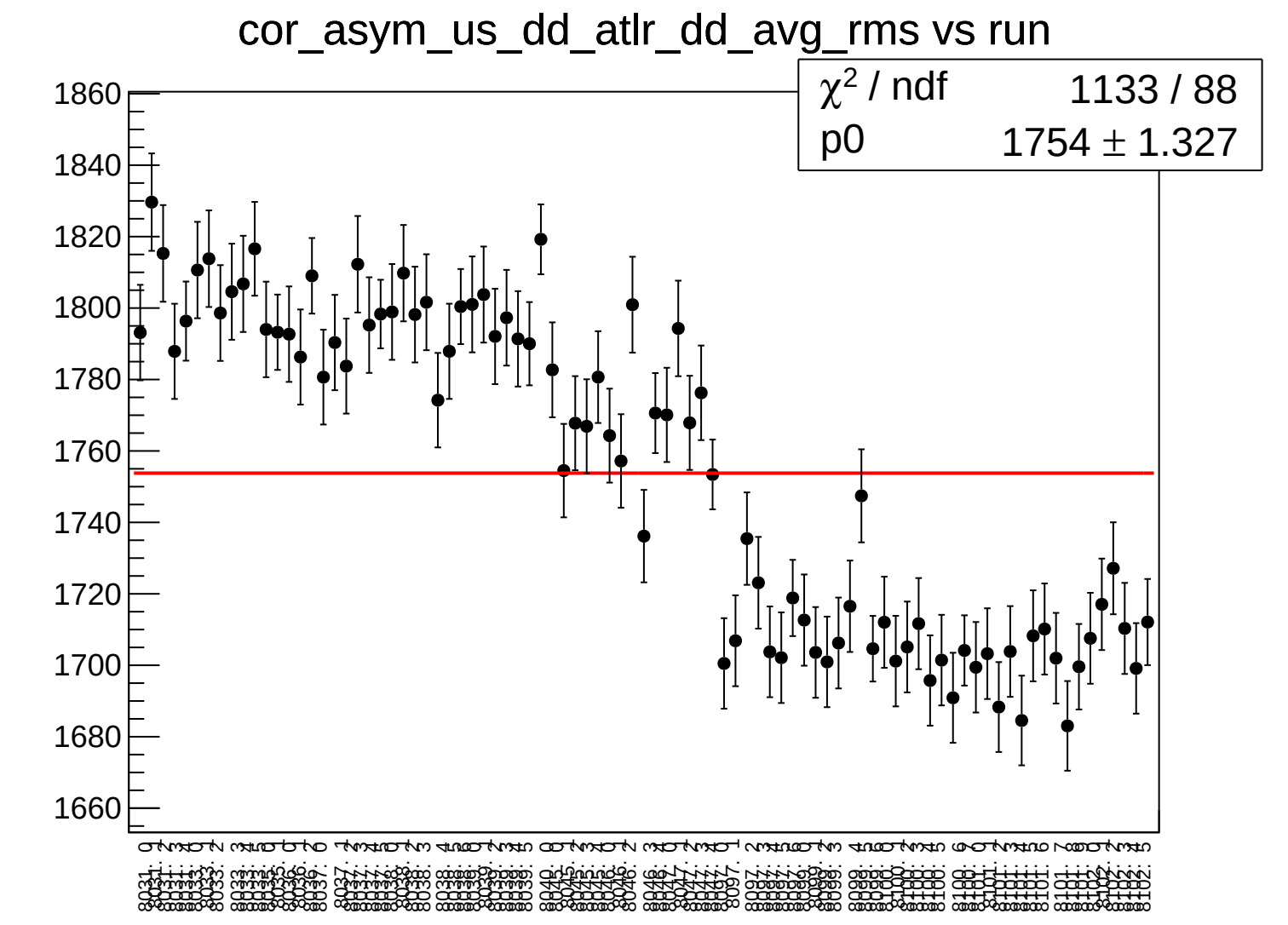

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 86.02 / 88
p0 −2114 ± 2617
100
50
0
−50
−100
pull
Entries 89
Mean −199.7
Std Dev 0
2
1
0
−1
−2
−3

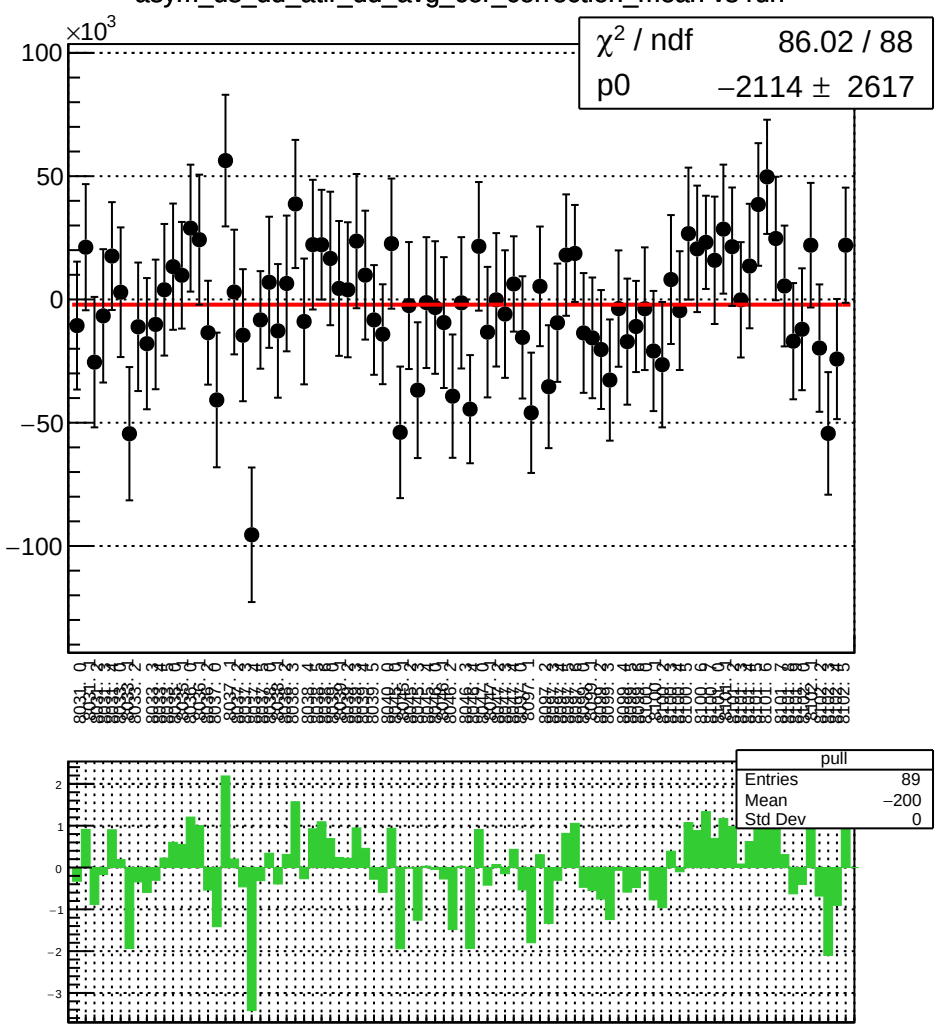

pull1D
Entries 89
Mean −0.007289
Std Dev 0.9831
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

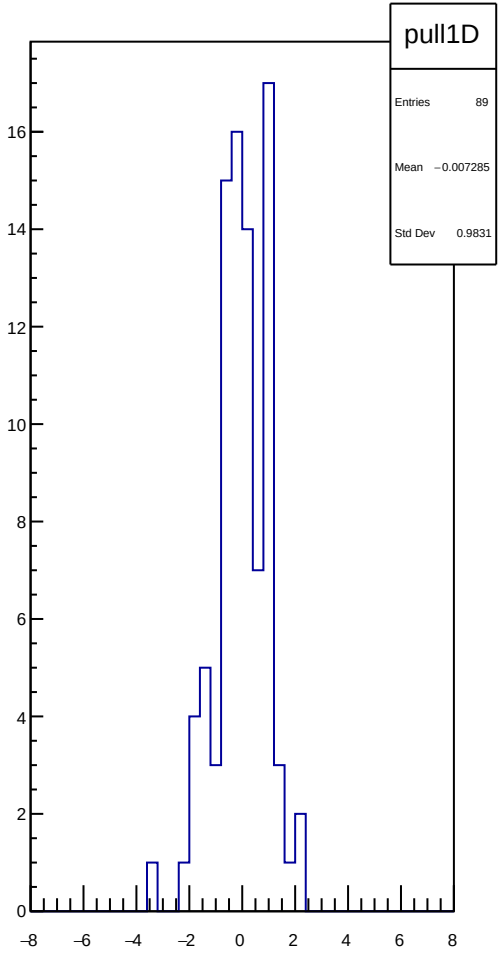

asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 3893 / 88
p0 2444 ± 1.851
2700
2600
2500
2400
2300
2200

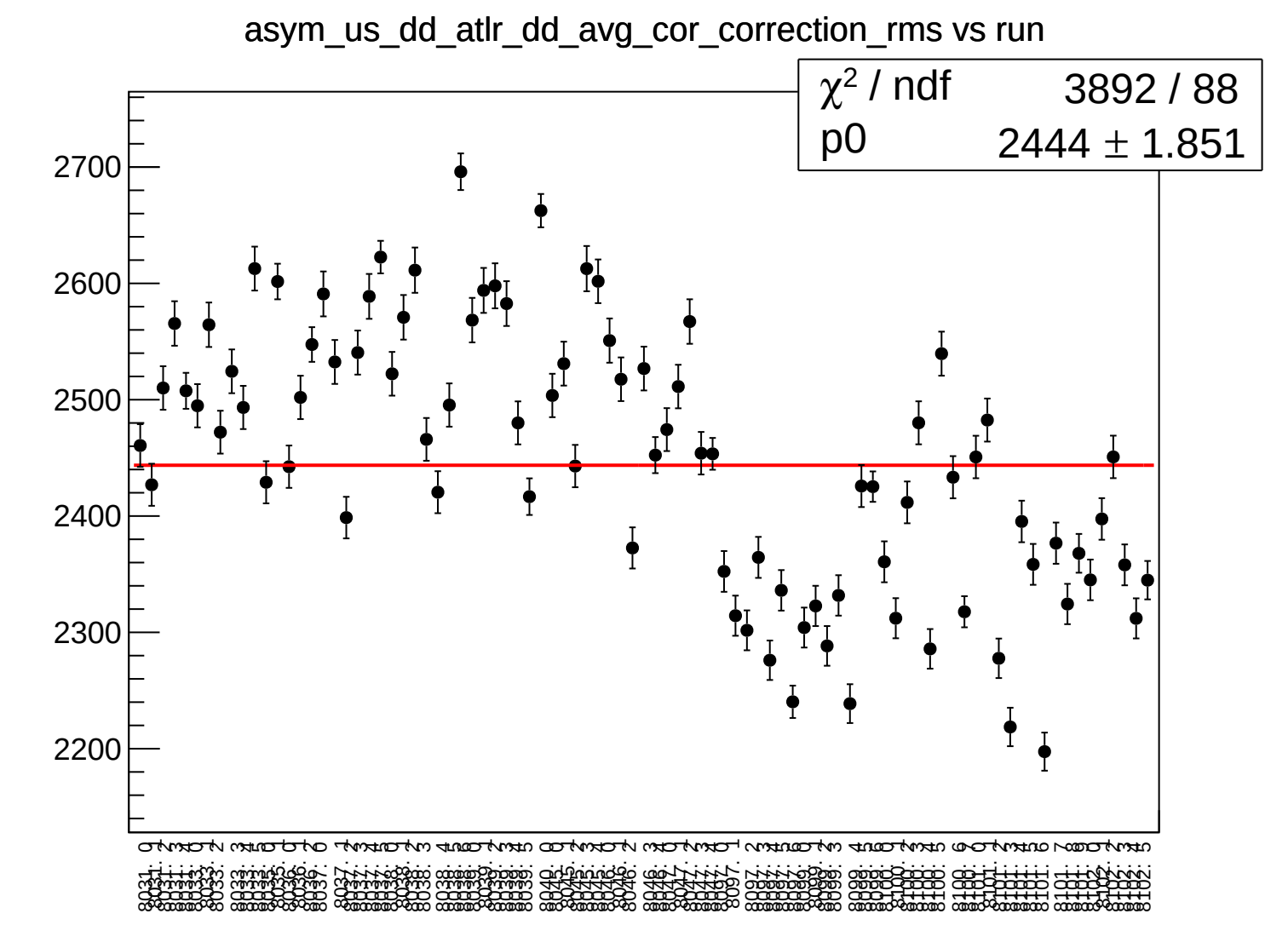

cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 88.43 / 88
p0 574.6 ± 1877
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 821.6
Std Dev 0
2
1
0
−1
−2

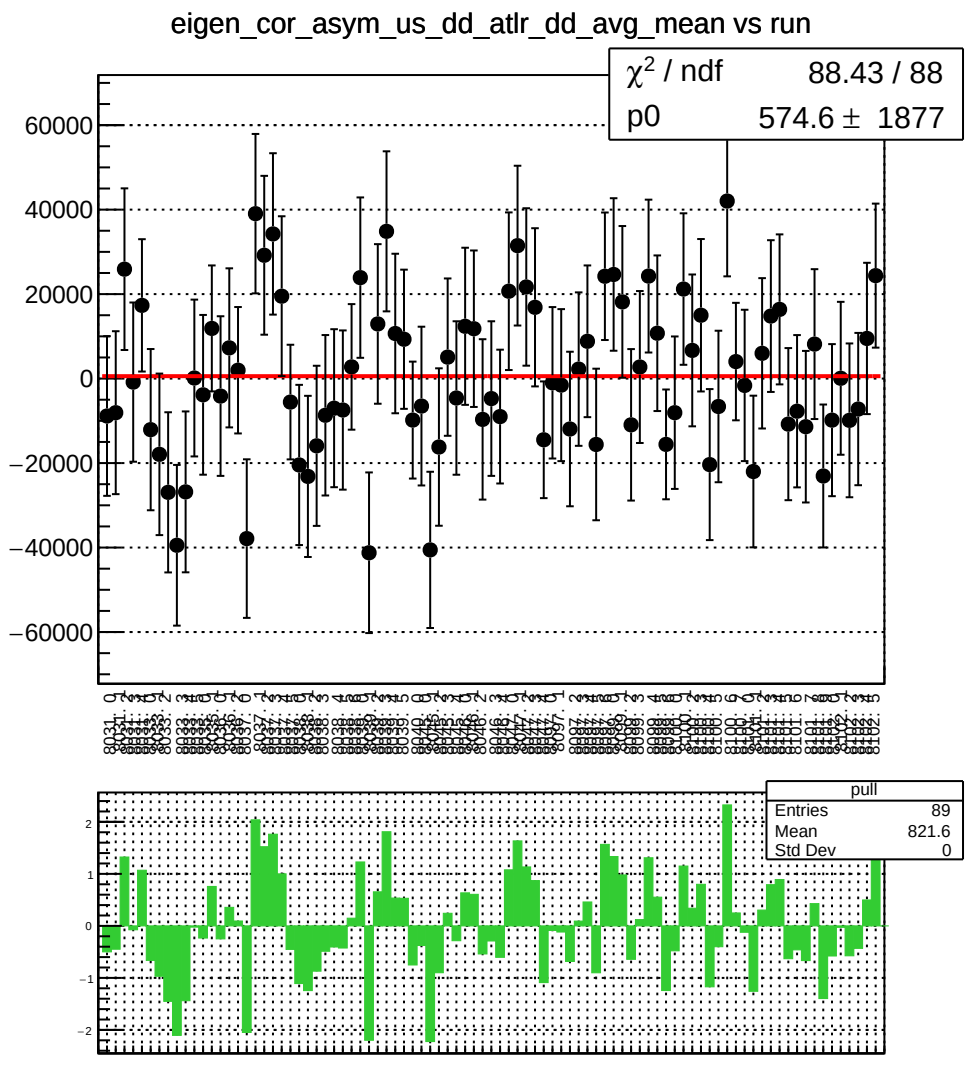

pull1D
Entries 89
Mean 0.003256
Std Dev 0.9968
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

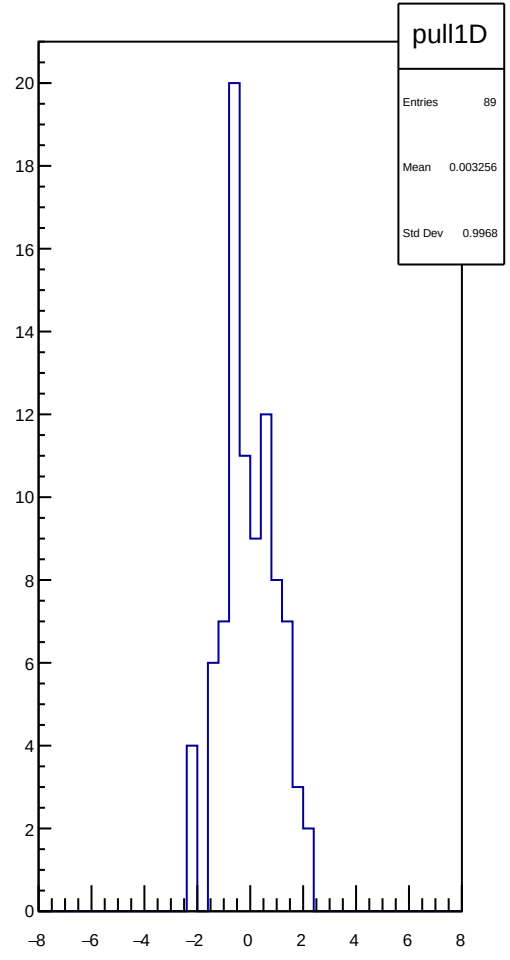

cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 1133 / 88
p0 1754 ± 1.327
1860
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660

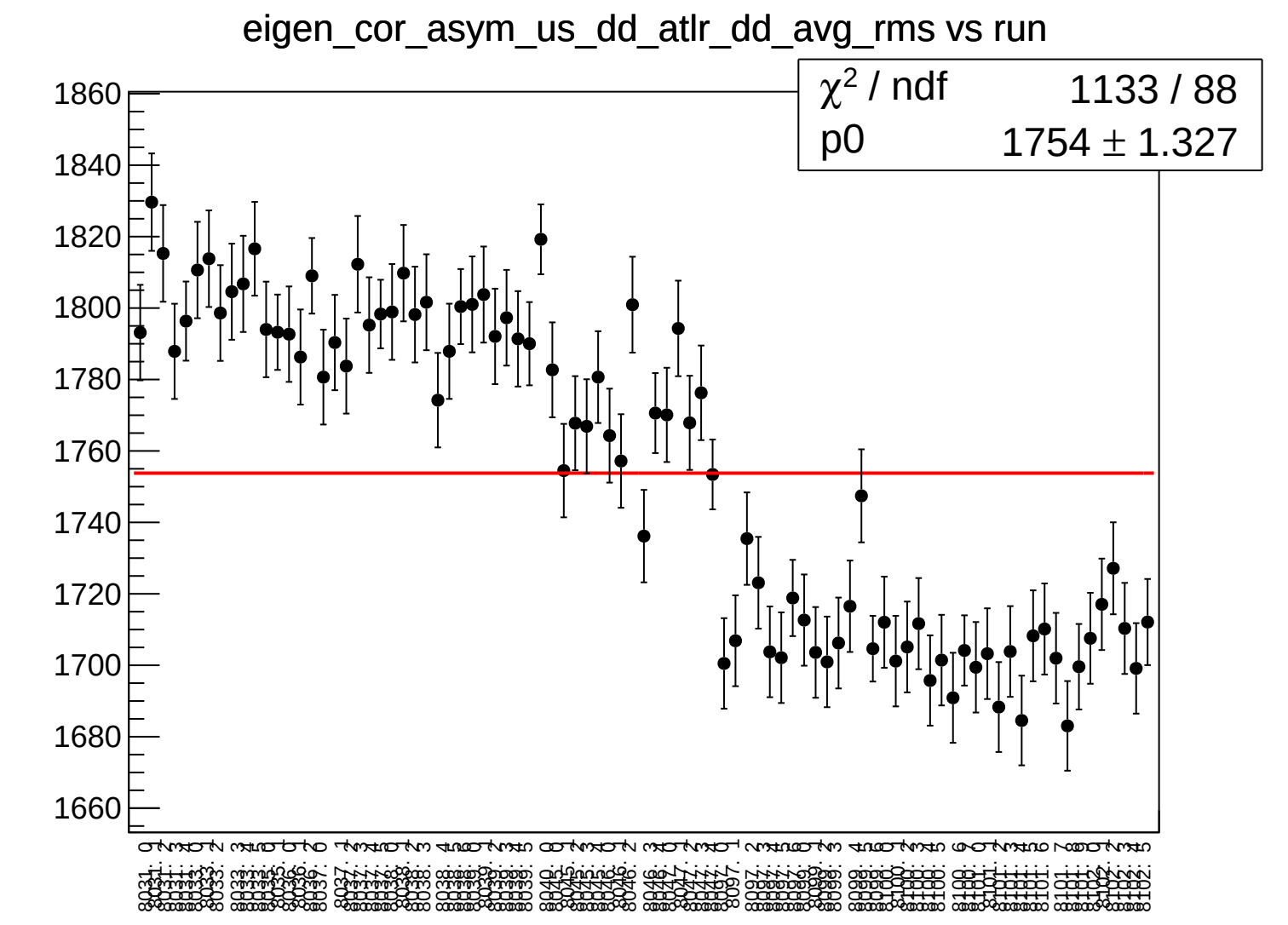

asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 86.02 / 88
p0 −2114 ± 2617
100
50
0
−50
−100
pull
Entries 89
Mean −200
Std Dev 0
2
1
0
−1
−2
−3

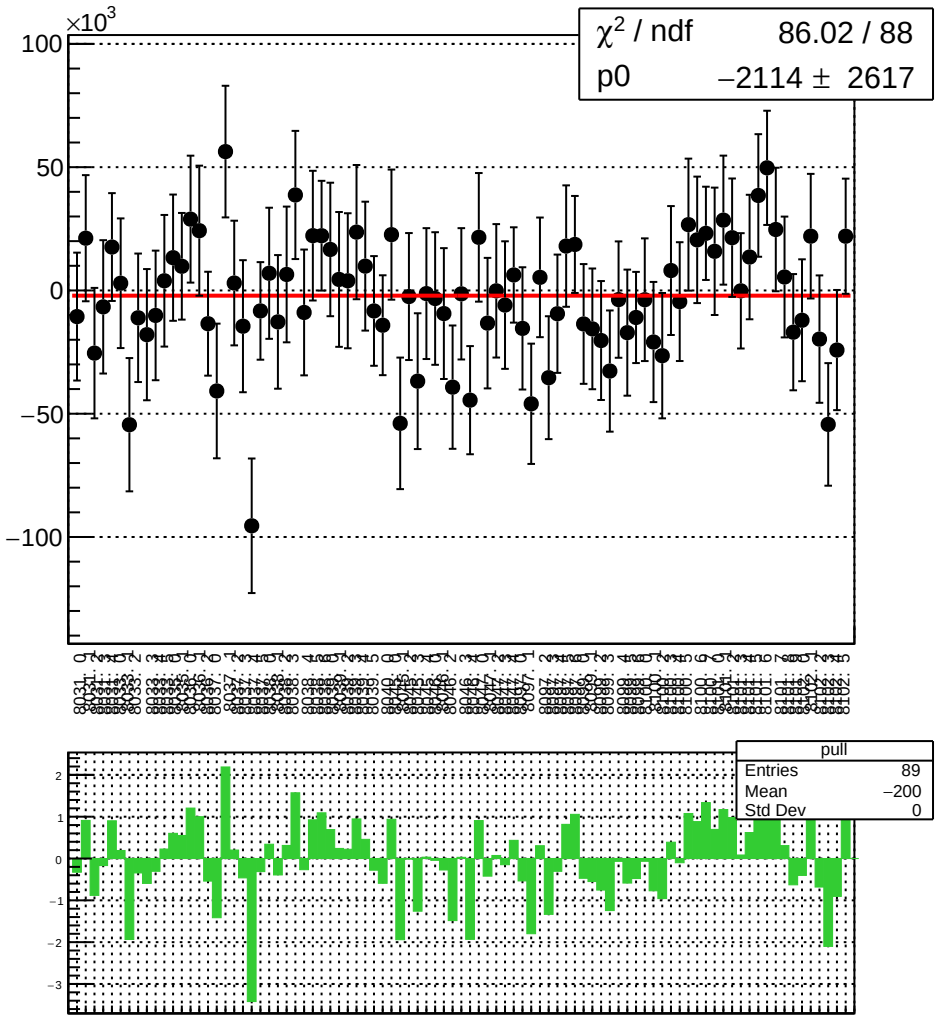

pull1D
Entries 89
Mean −0.007285
Std Dev 0.9831
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

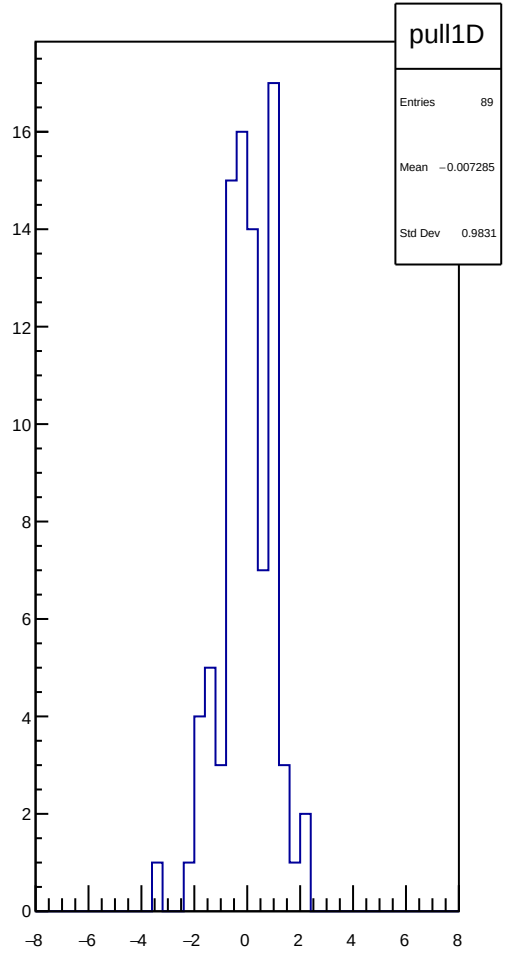

asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 3892 / 88
p0 2444 ± 1.851
2700
2600
2500
2400
2300
2200

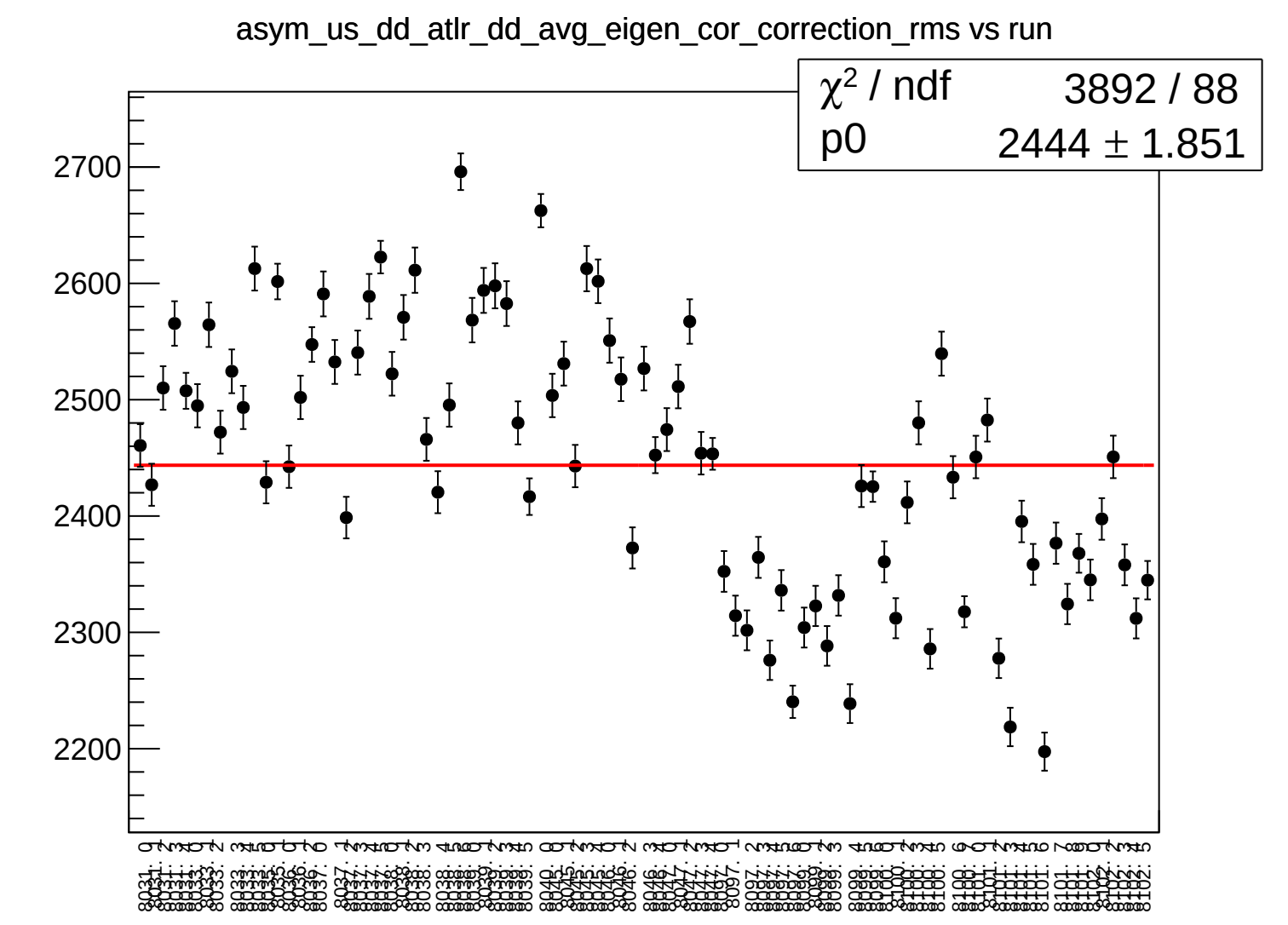

eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 88.43 / 88
p0 574.6 ± 1877
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 821.6
Std Dev 0
2
1
0
−1
−2

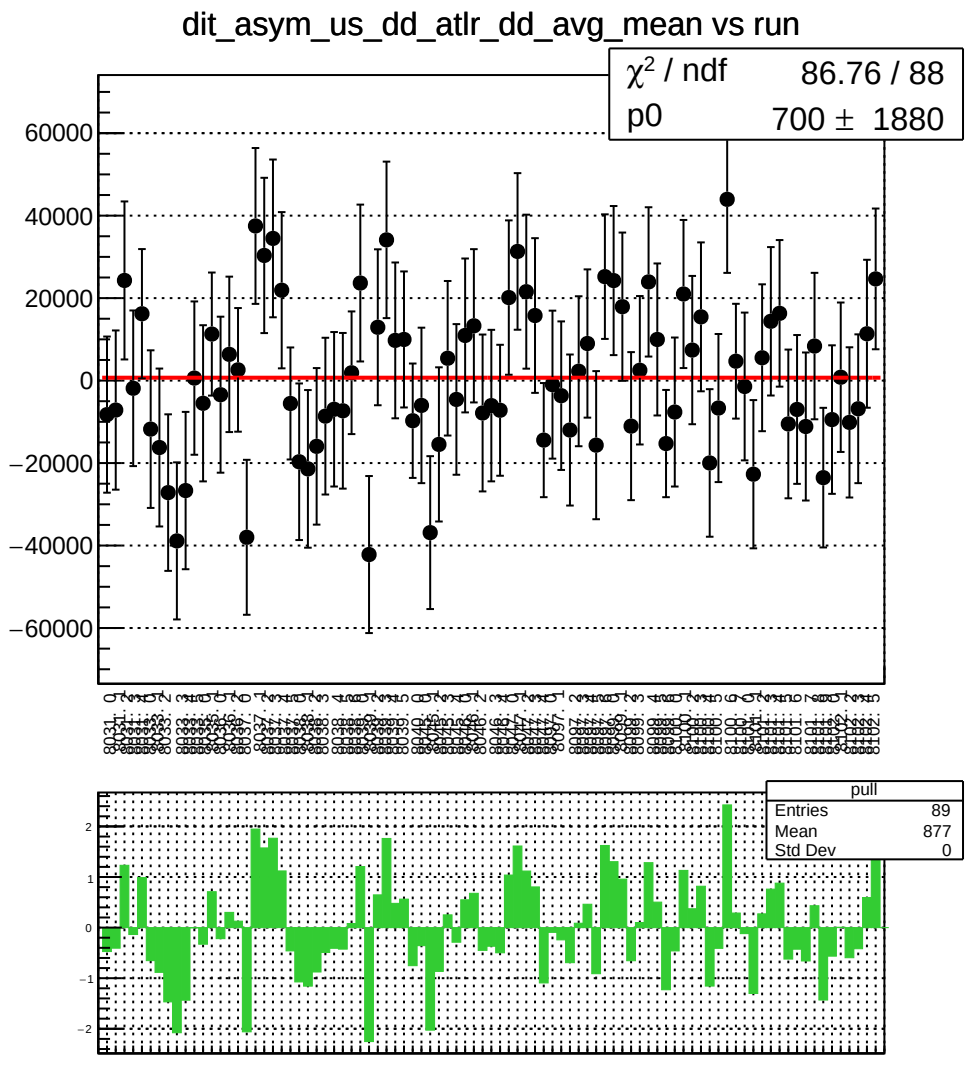

pull1D
Entries 89
Mean 0.003256
Std Dev 0.9968
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

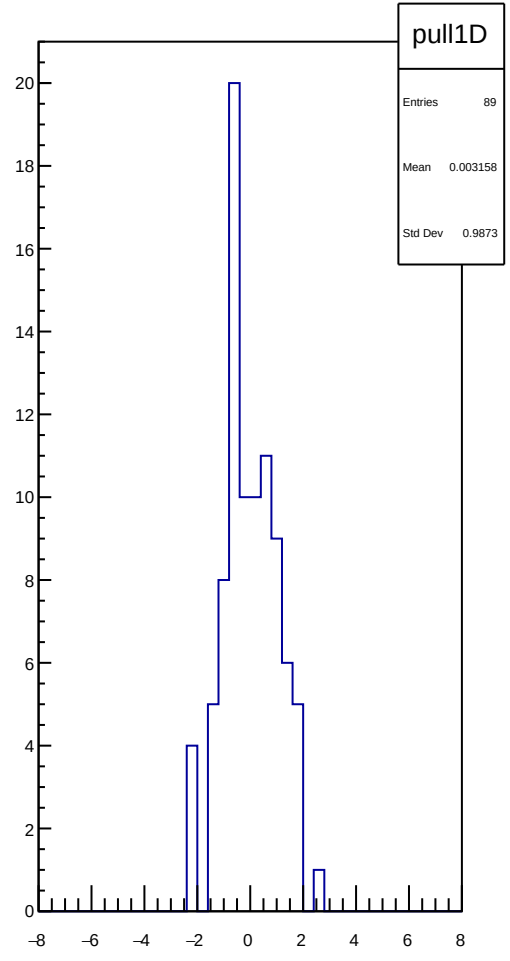

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 1133 / 88
p0 1754 ± 1.327
1860
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660

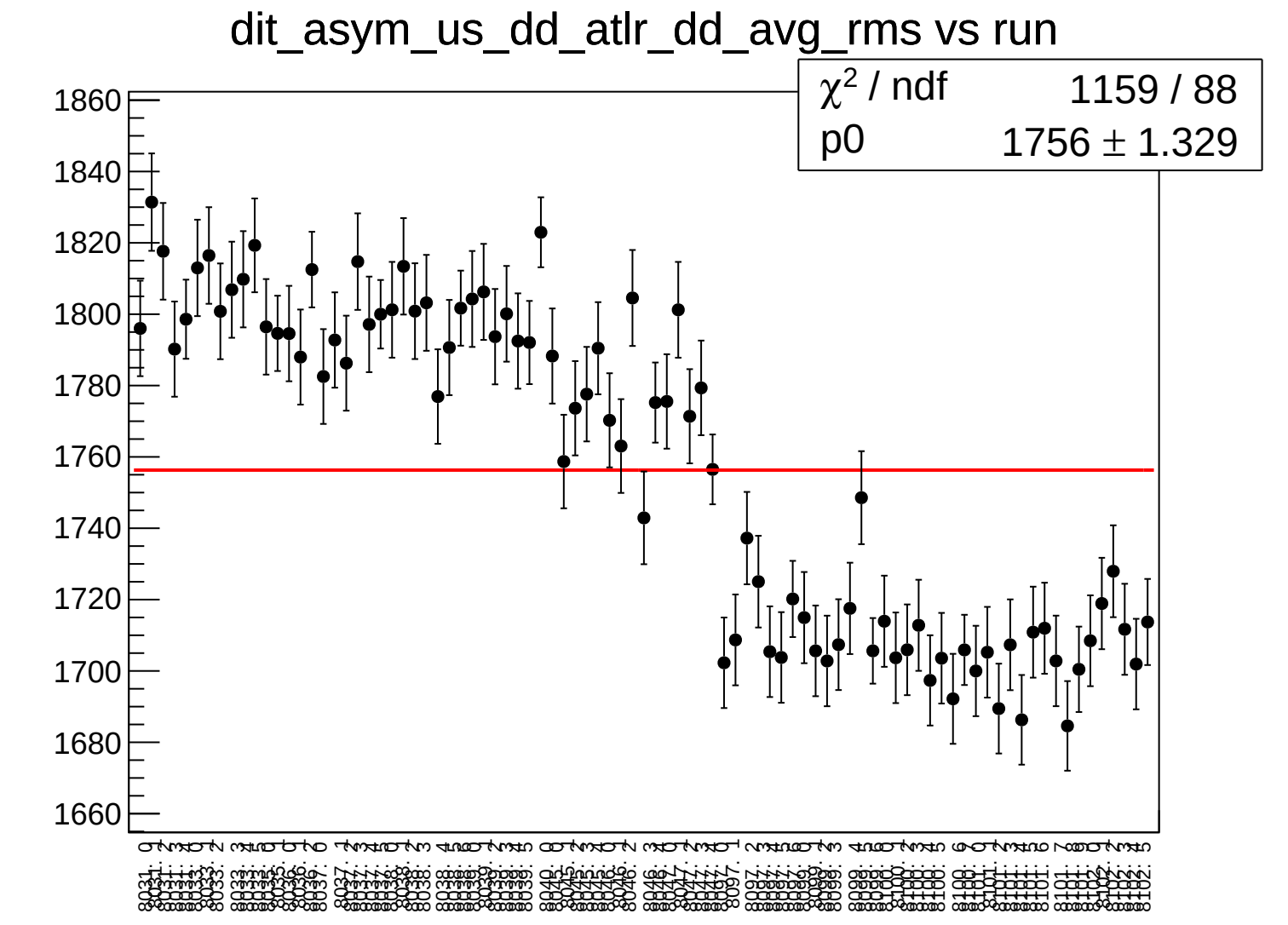

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 86.02 / 88
p0 −2114 ± 2617
100
50
0
−50
−100
pull
Entries 89
Mean −200
Std Dev 0
2
1
0
−1
−2
−3

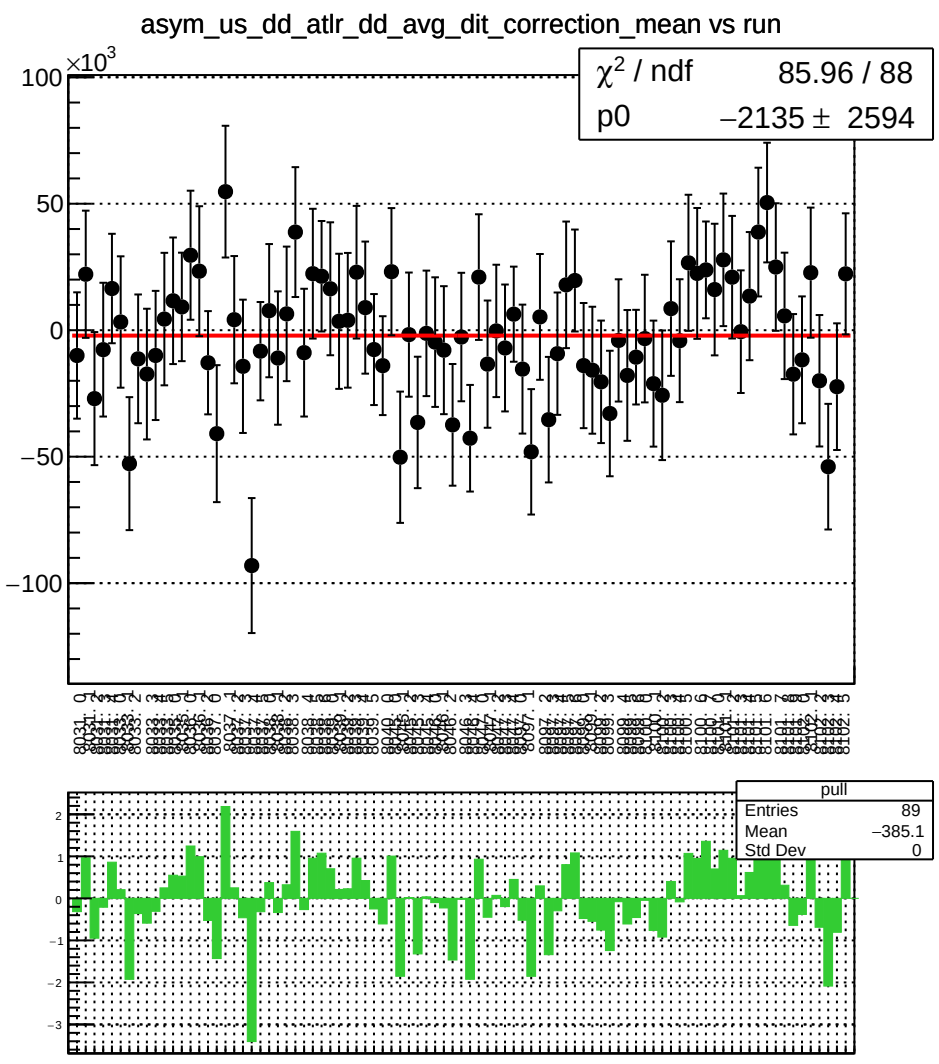

pull1D
Entries 89
Mean −0.007285
Std Dev 0.9831
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

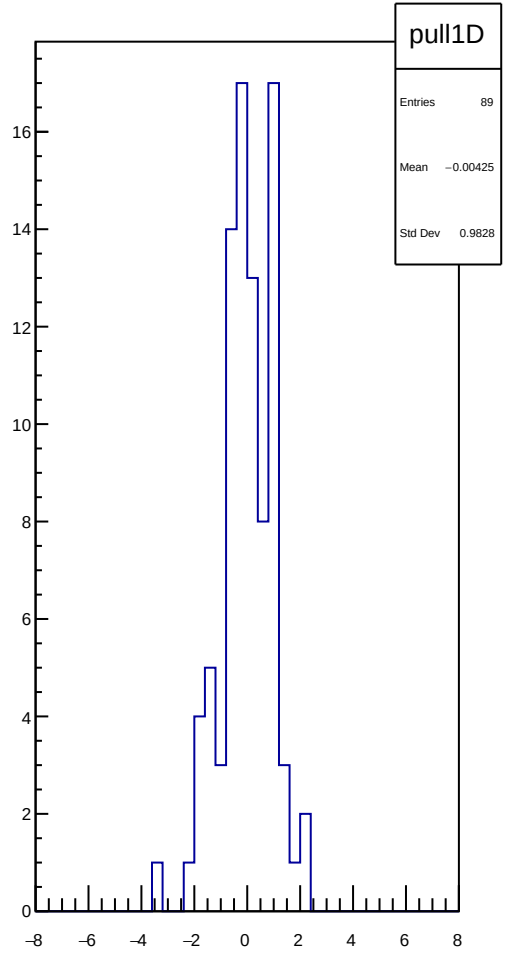

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 3892 / 88
p0 2444 ± 1.851
2700
2600
2500
2400
2300
2200

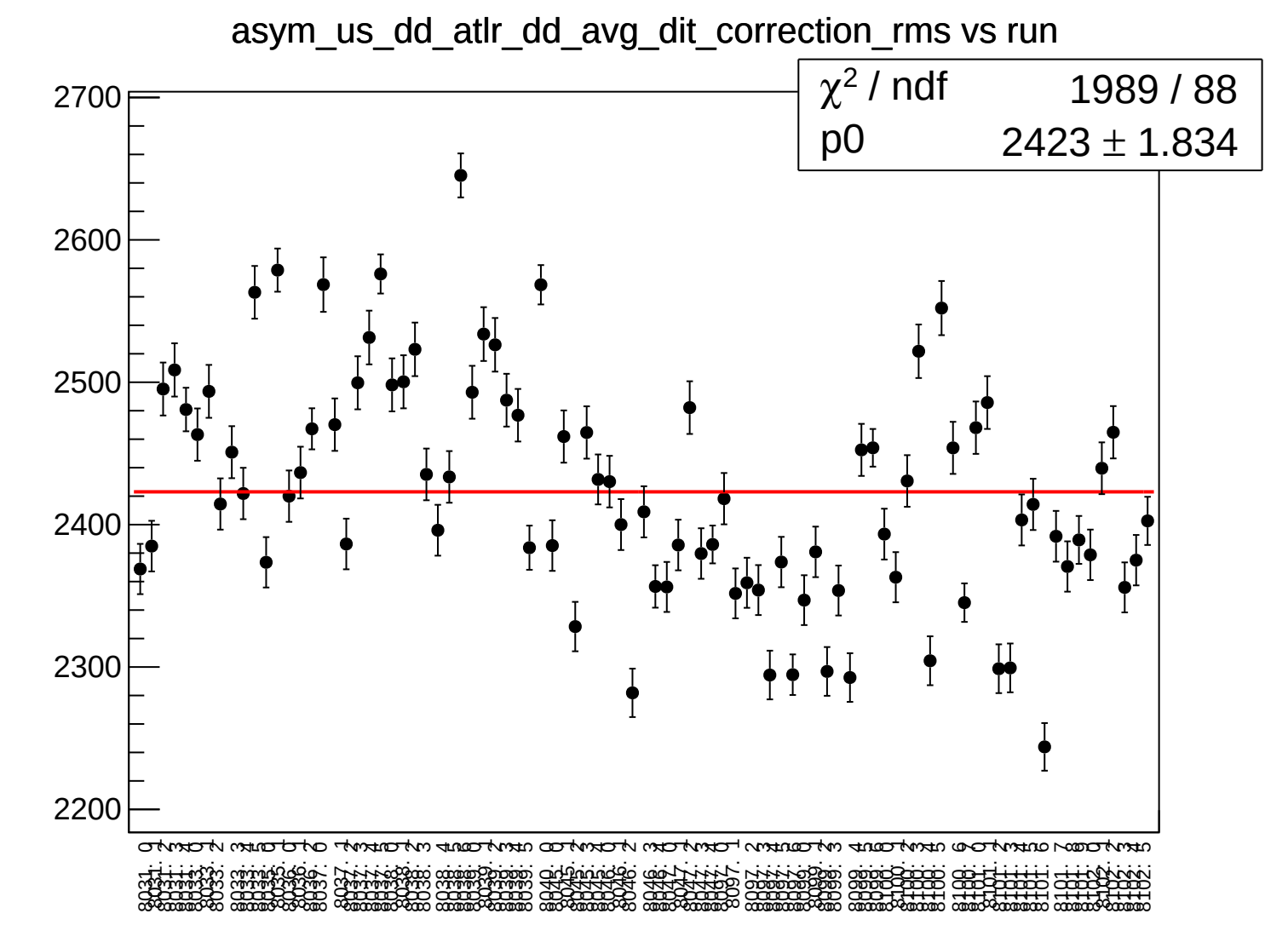

dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 86.76 / 88
p0 700 ± 1880
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 877
Std Dev 0
2
1
0
−1
−2

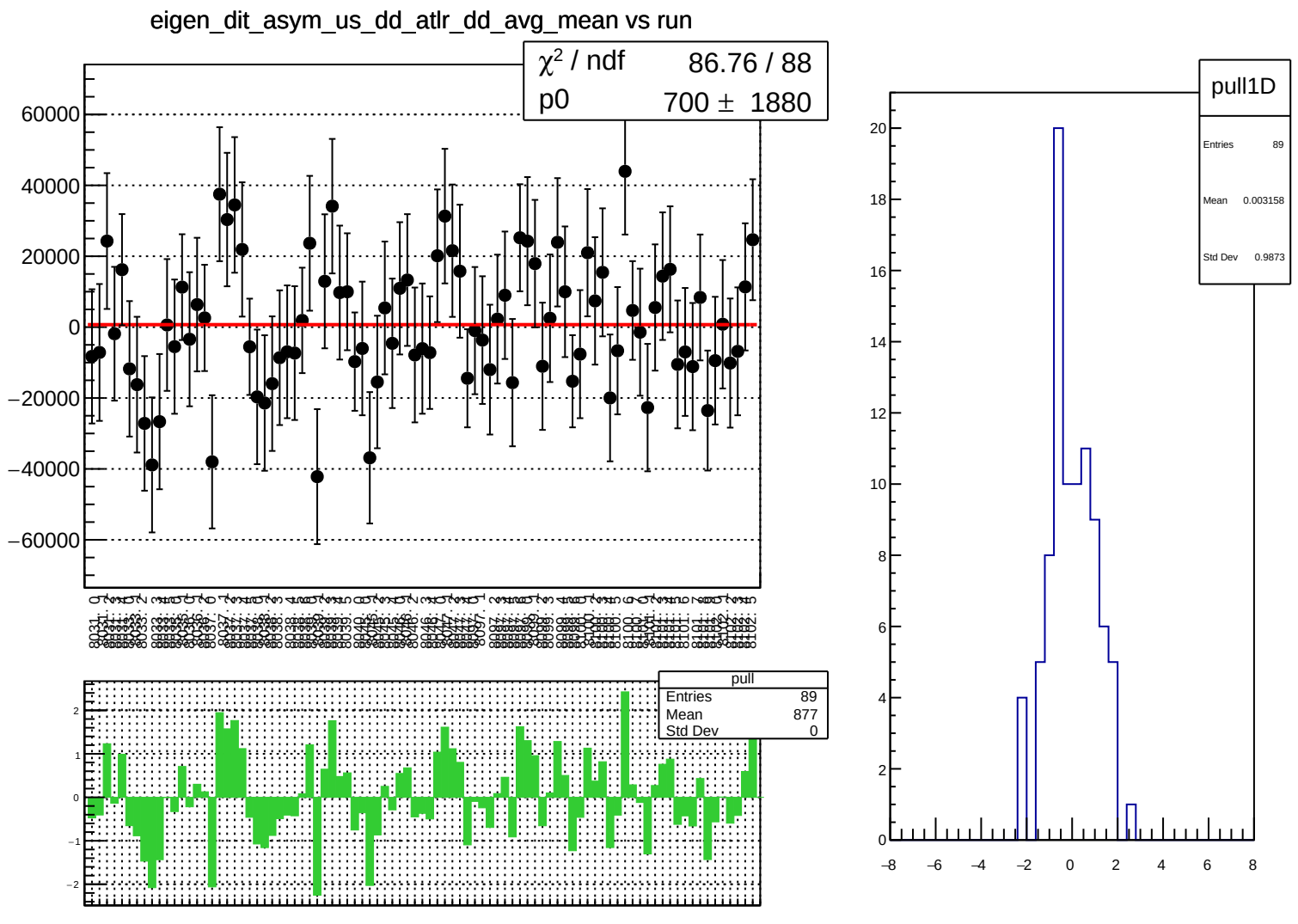

pull1D
Entries 89
Mean 0.003158
Std Dev 0.9873
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

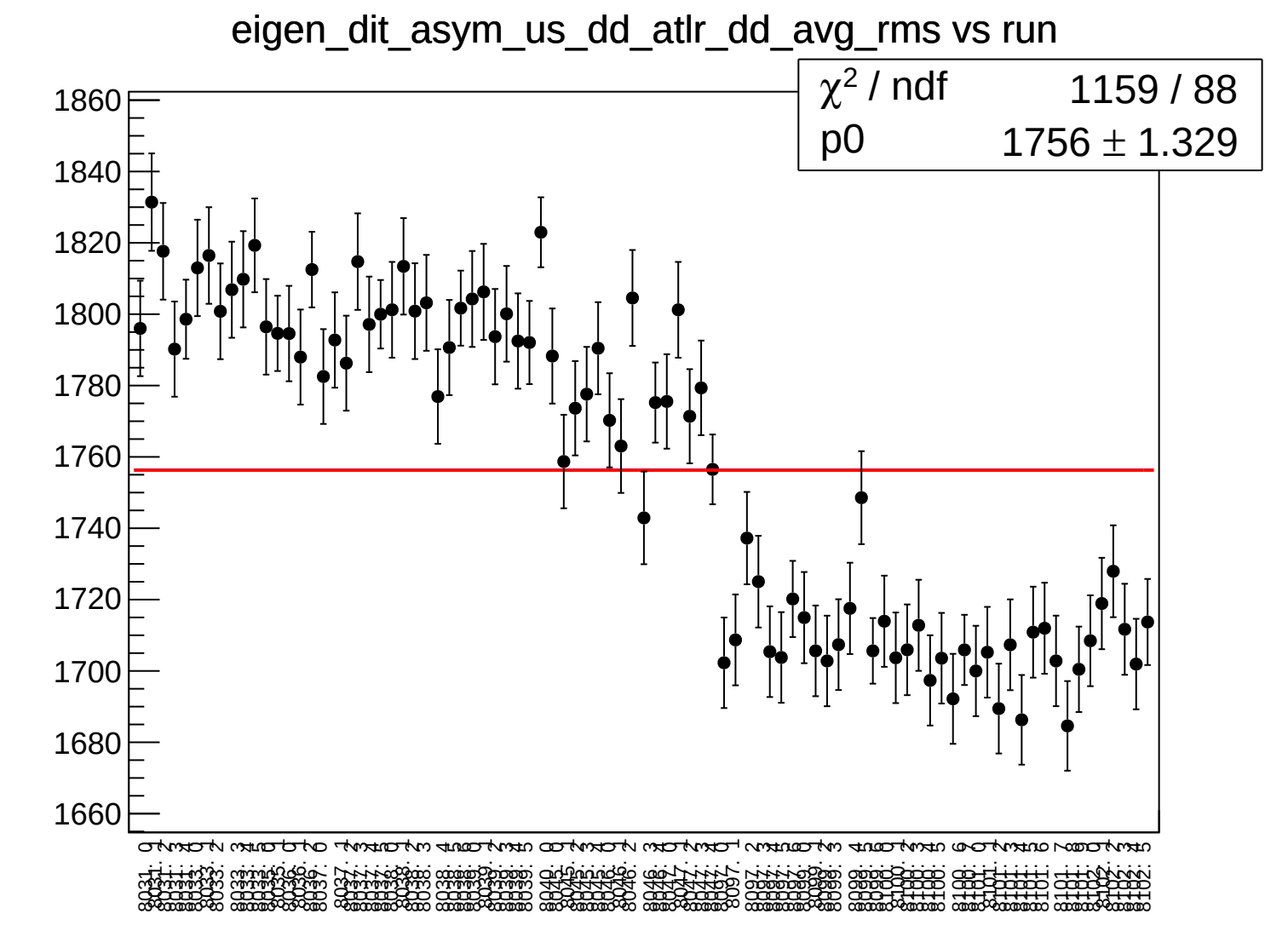

dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 1159 / 88
p0 1756 ± 1.329
1860
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660

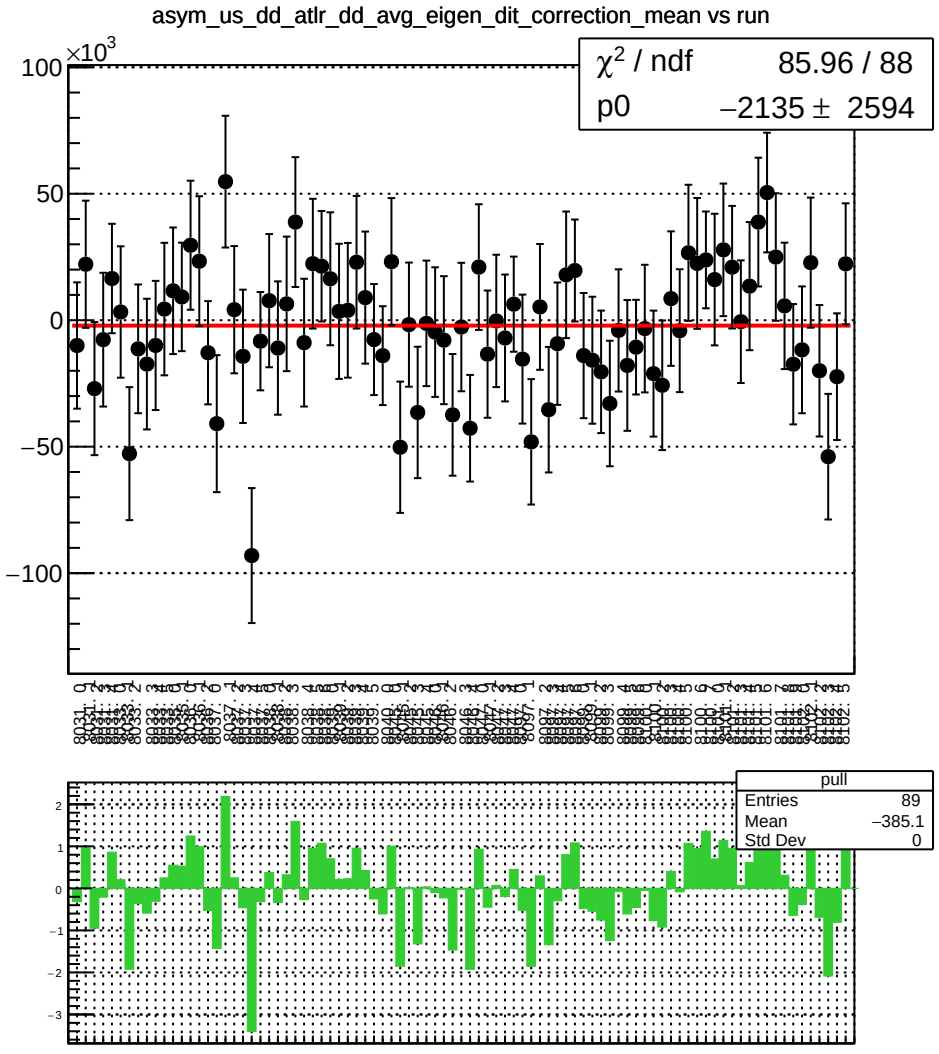

asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 85.96 / 88
p0 −2135 ± 2594
pull
Entries 89
Mean −385.1
Std Dev 0

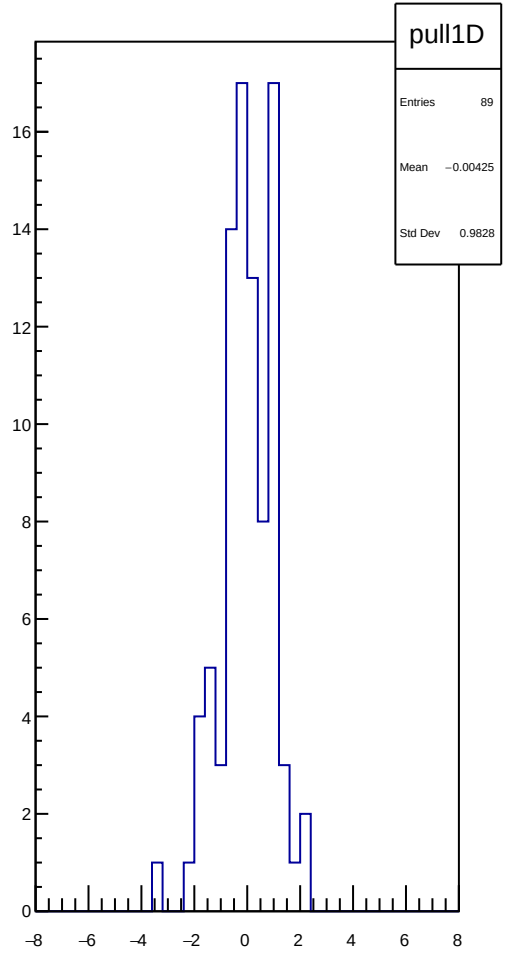

pull1D
Entries 89
Mean −0.00425
Std Dev 0.9828

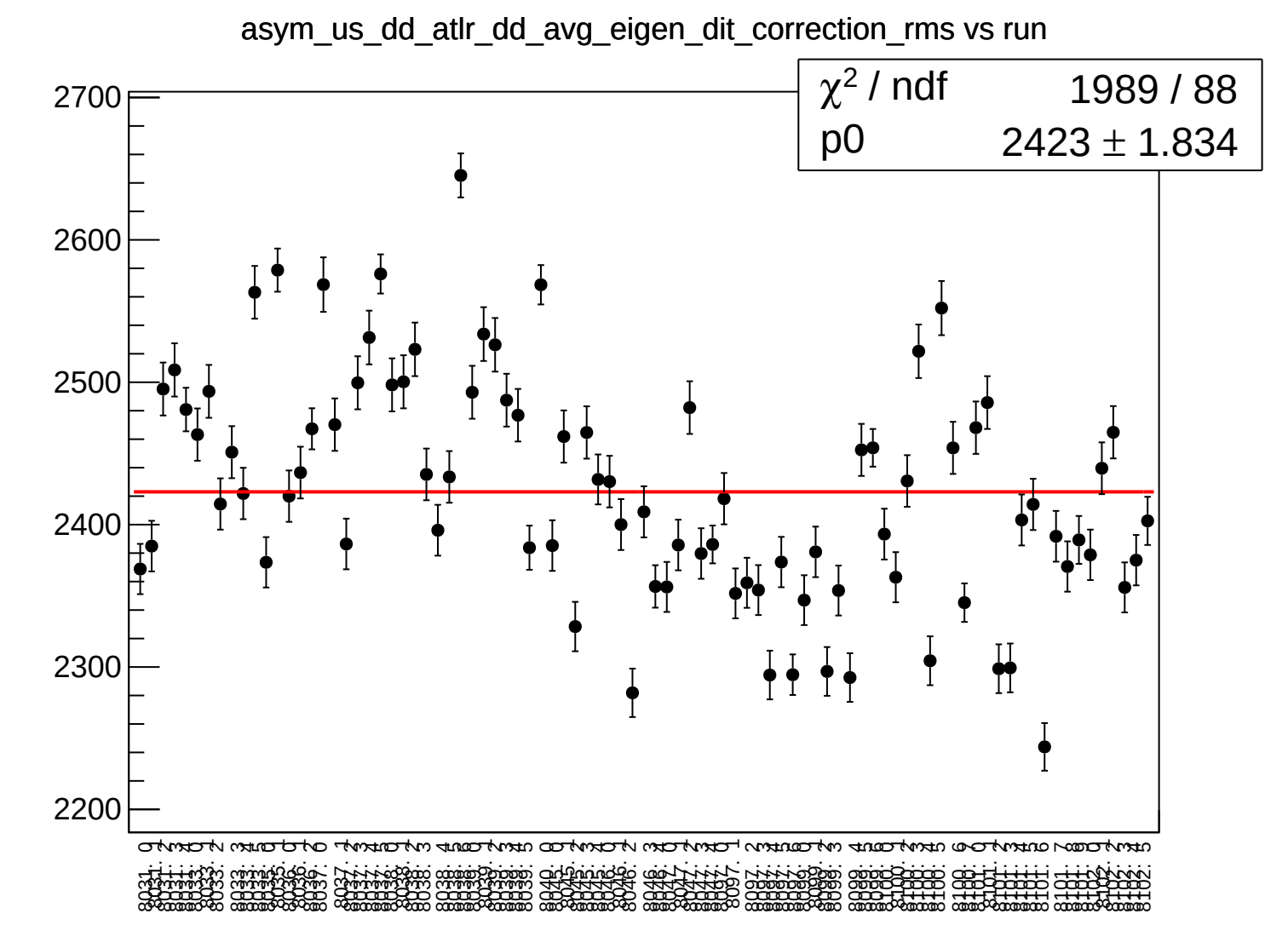

asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ² / ndf 1989 / 88
p0 2423 ± 1.834
2700
2600
2500
2400
2300
2200

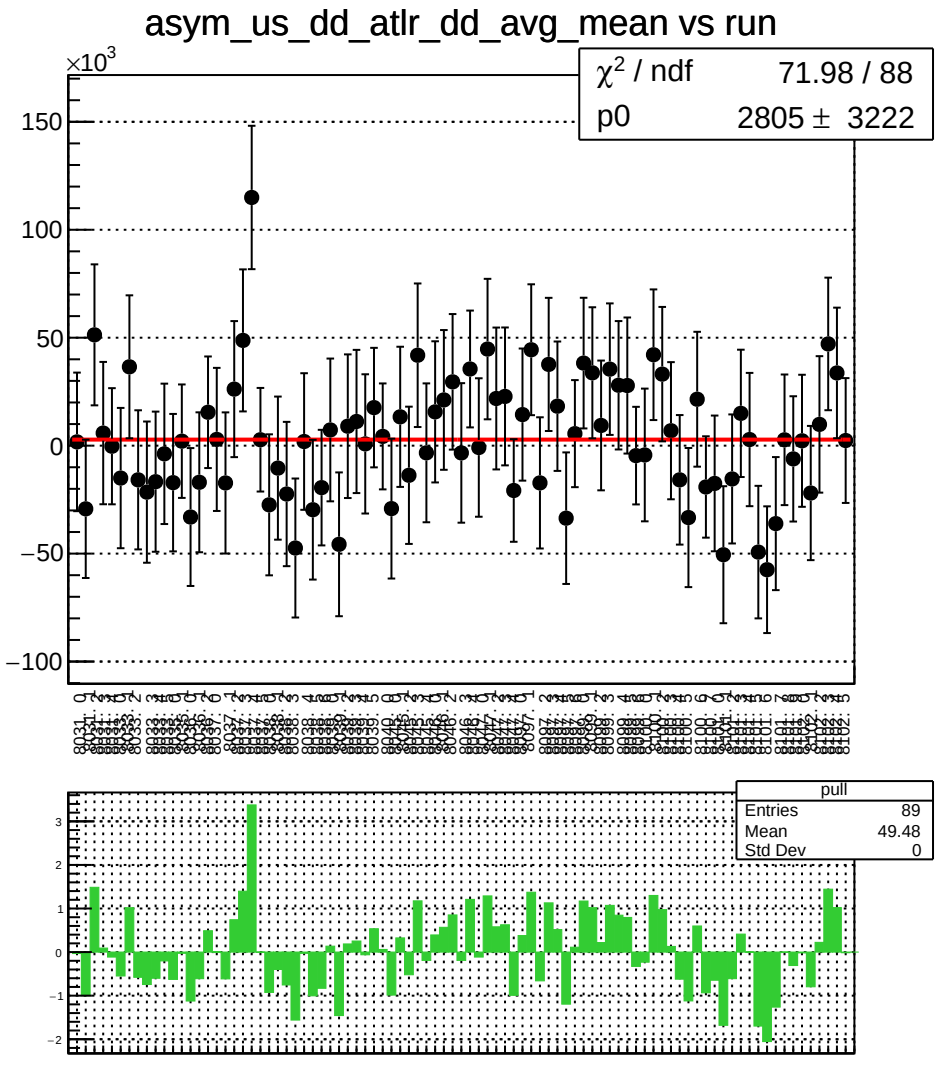

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 86.76 / 88
p0 700 ± 1880
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 877
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.003158
Std Dev 0.9873
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

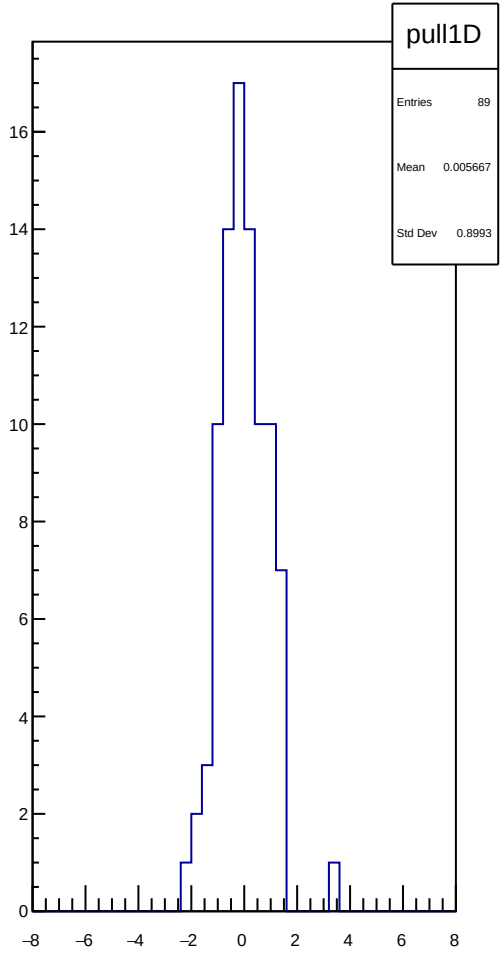

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
$\chi^2$ / ndf 1159 / 88
p0 1756 ± 1.329
1860
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660

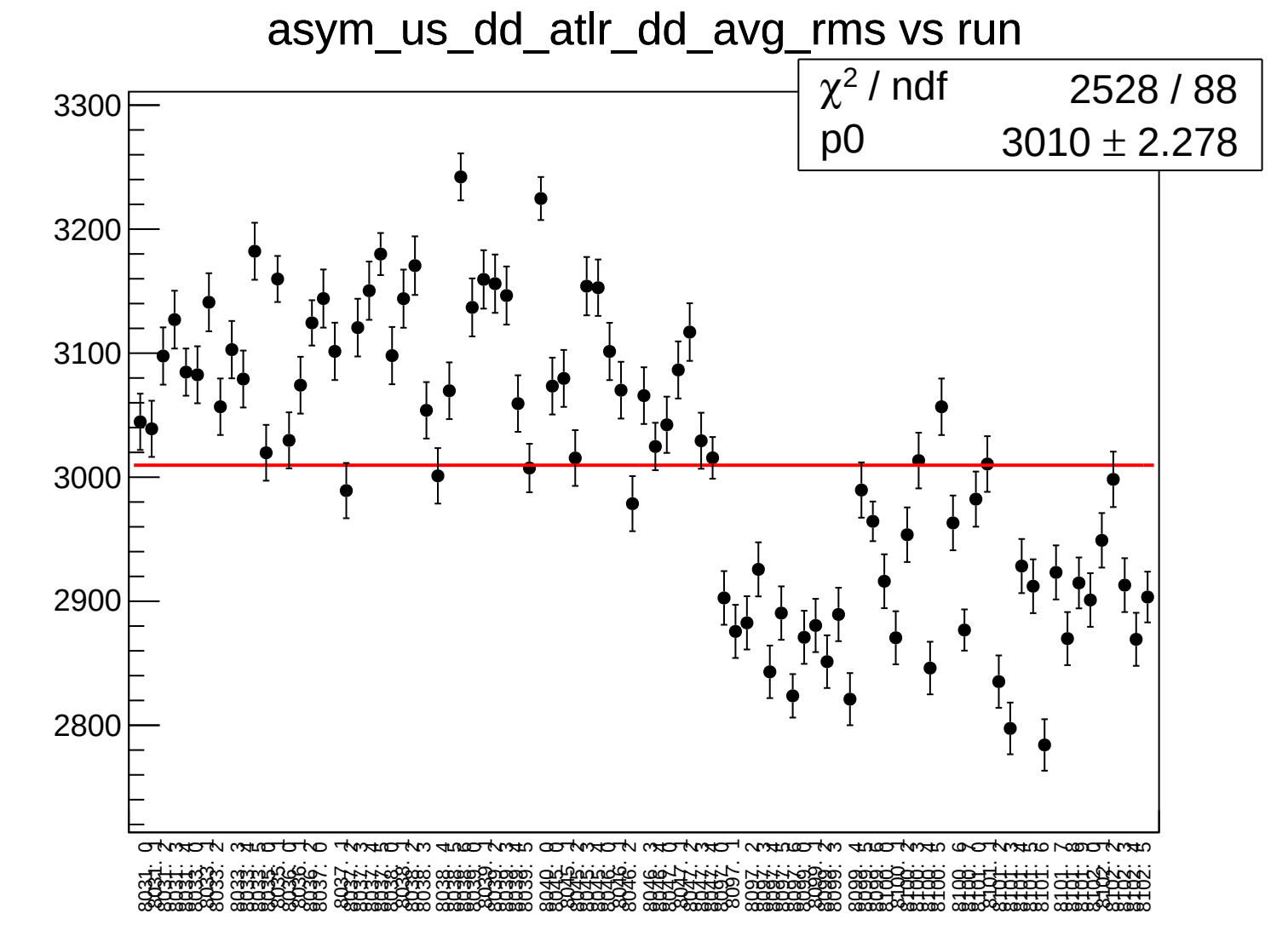

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 85.96 / 88
p0 −2135 ± 2594
×10³
100
50
0
−50
−100
pull
Entries 89
Mean −385.1
Std Dev 0
2
1
0
−1
−2
−3

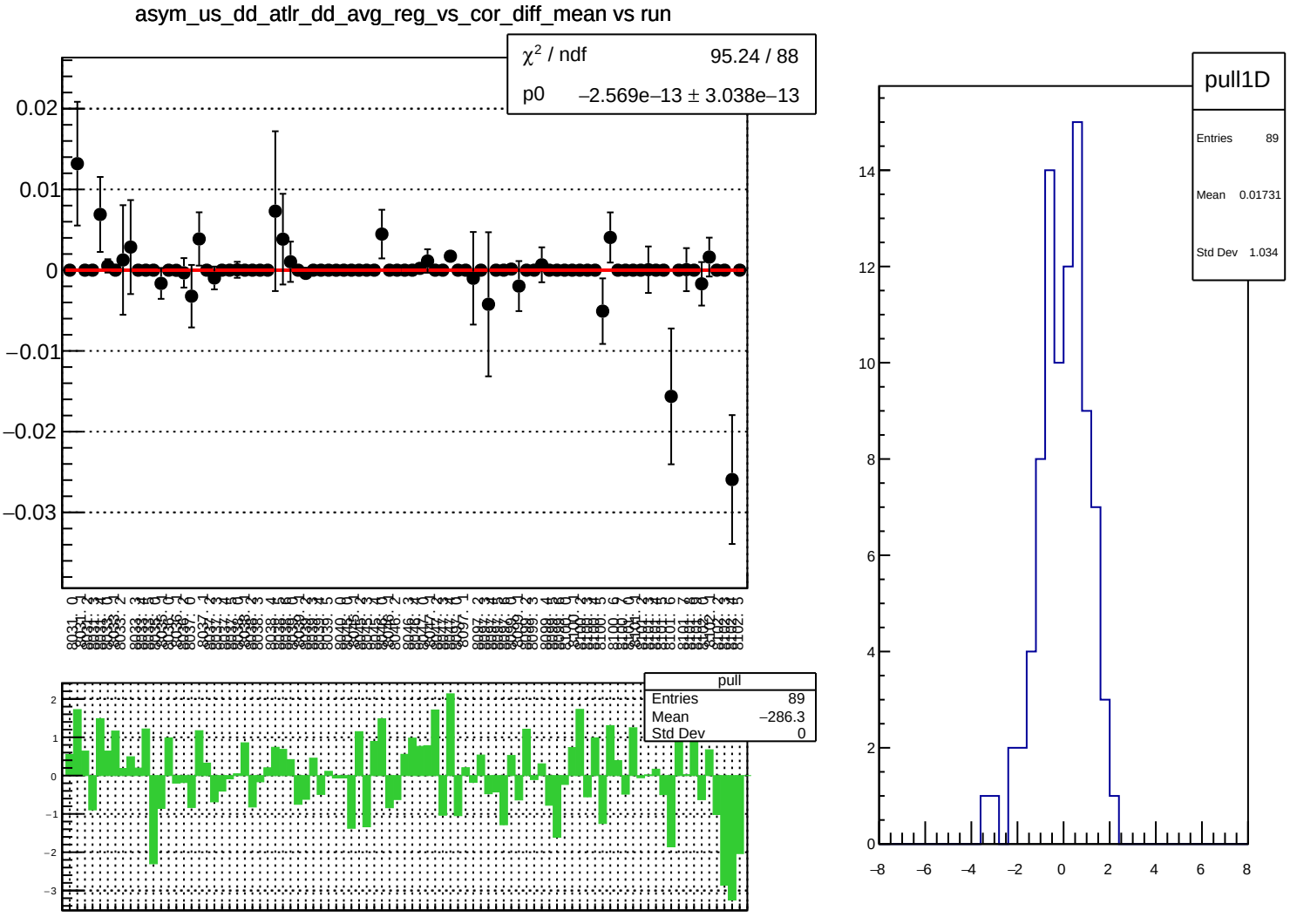

pull1D
Entries 89
Mean −0.00425
Std Dev 0.9828
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

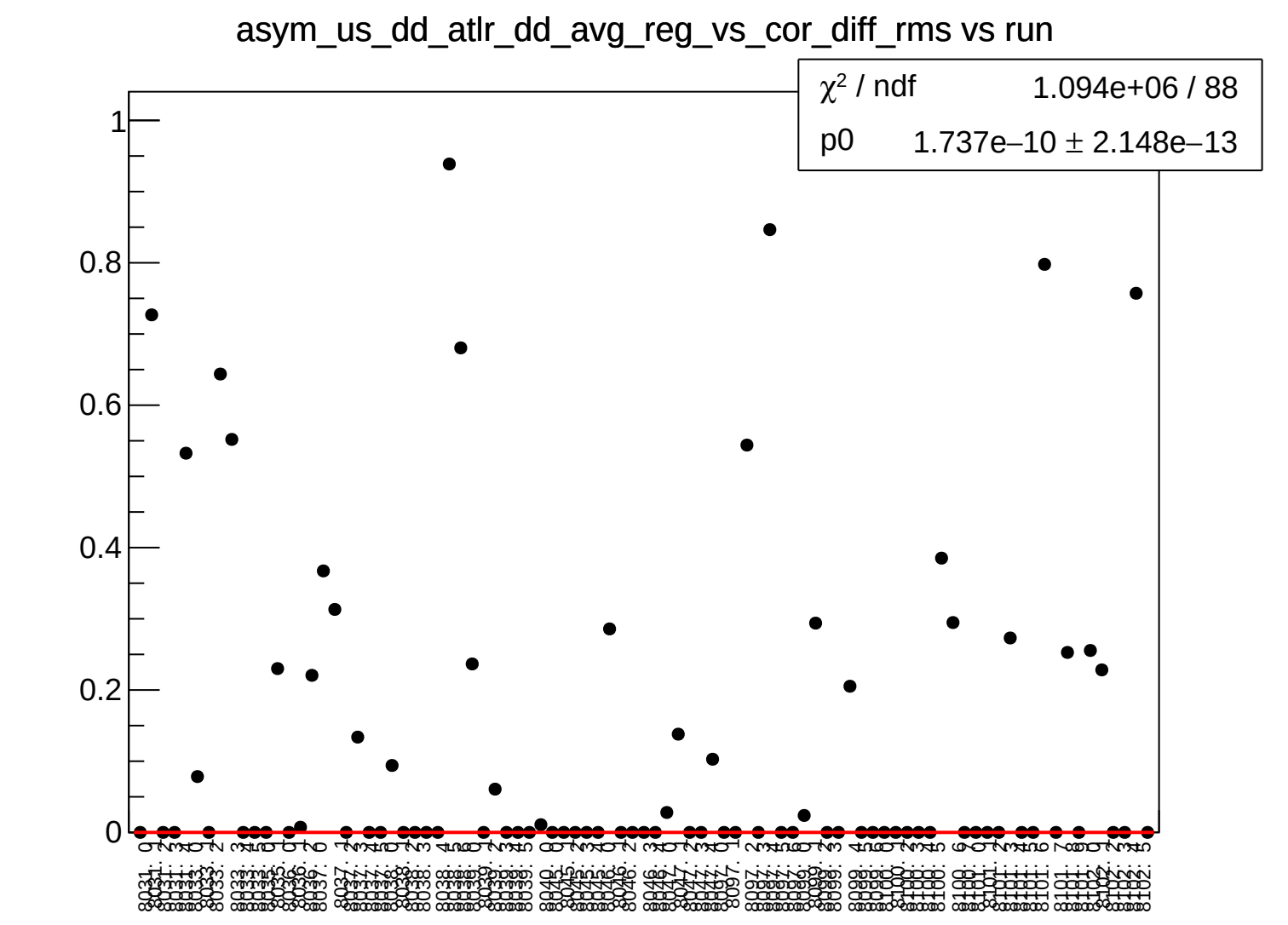

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1989 / 88
p0 2423 ± 1.834
2700
2600
2500
2400
2300
2200

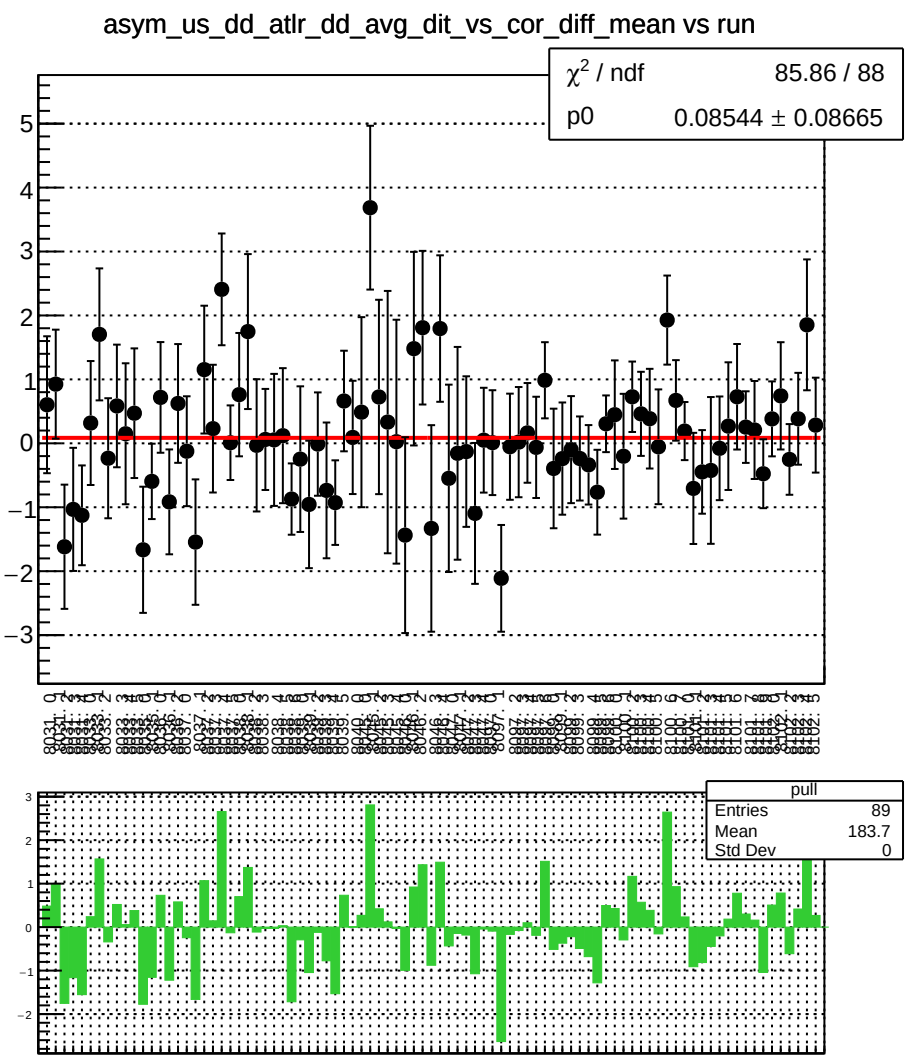

asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 71.98 / 88
p0 2805 ± 3222
×10³
150
100
50
0
−50
−100
pull
Entries 89
Mean 49.48
Std Dev 0
3
2
1
0
−1
−2

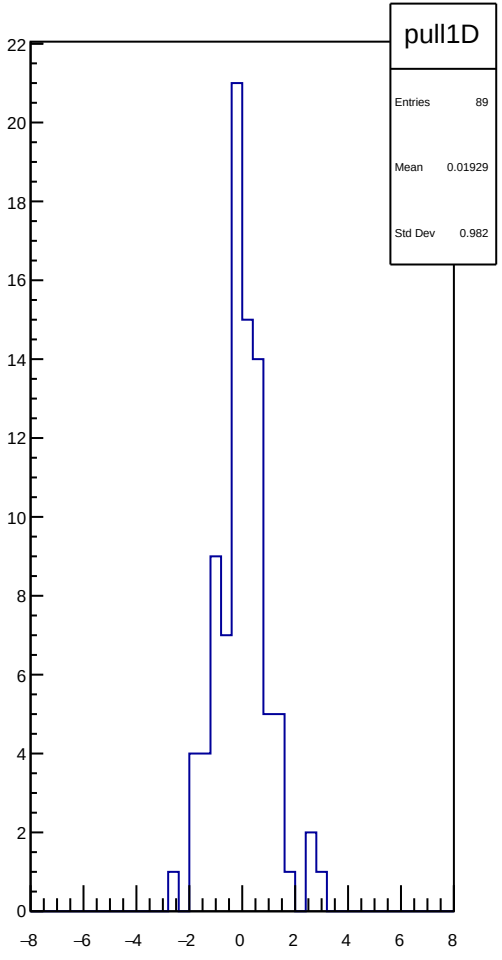

pull1D
Entries 89
Mean 0.005667
Std Dev 0.8993
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

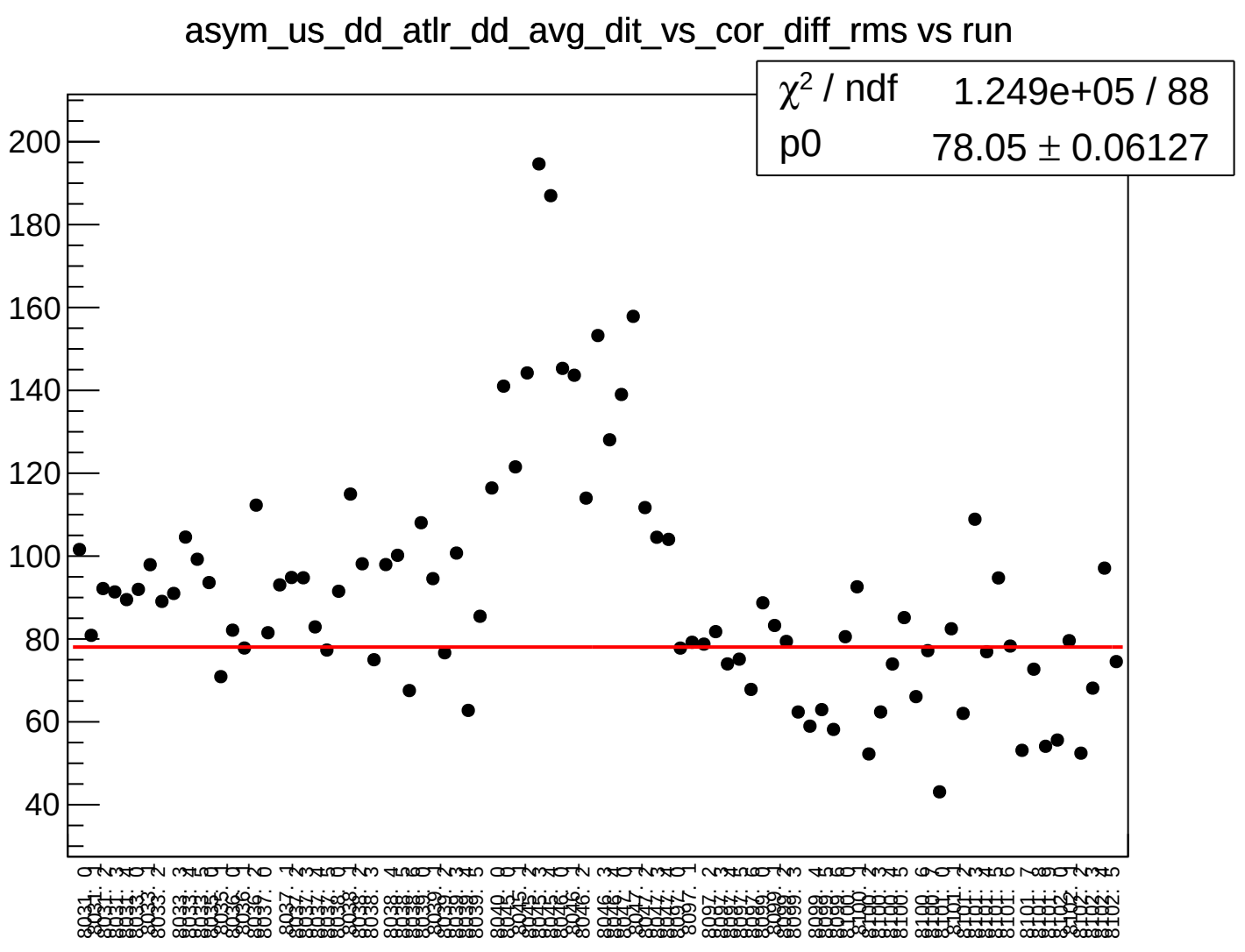

asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 2528 / 88
p0 3010 ± 2.278
3300
3200
3100
3000
2900
2800

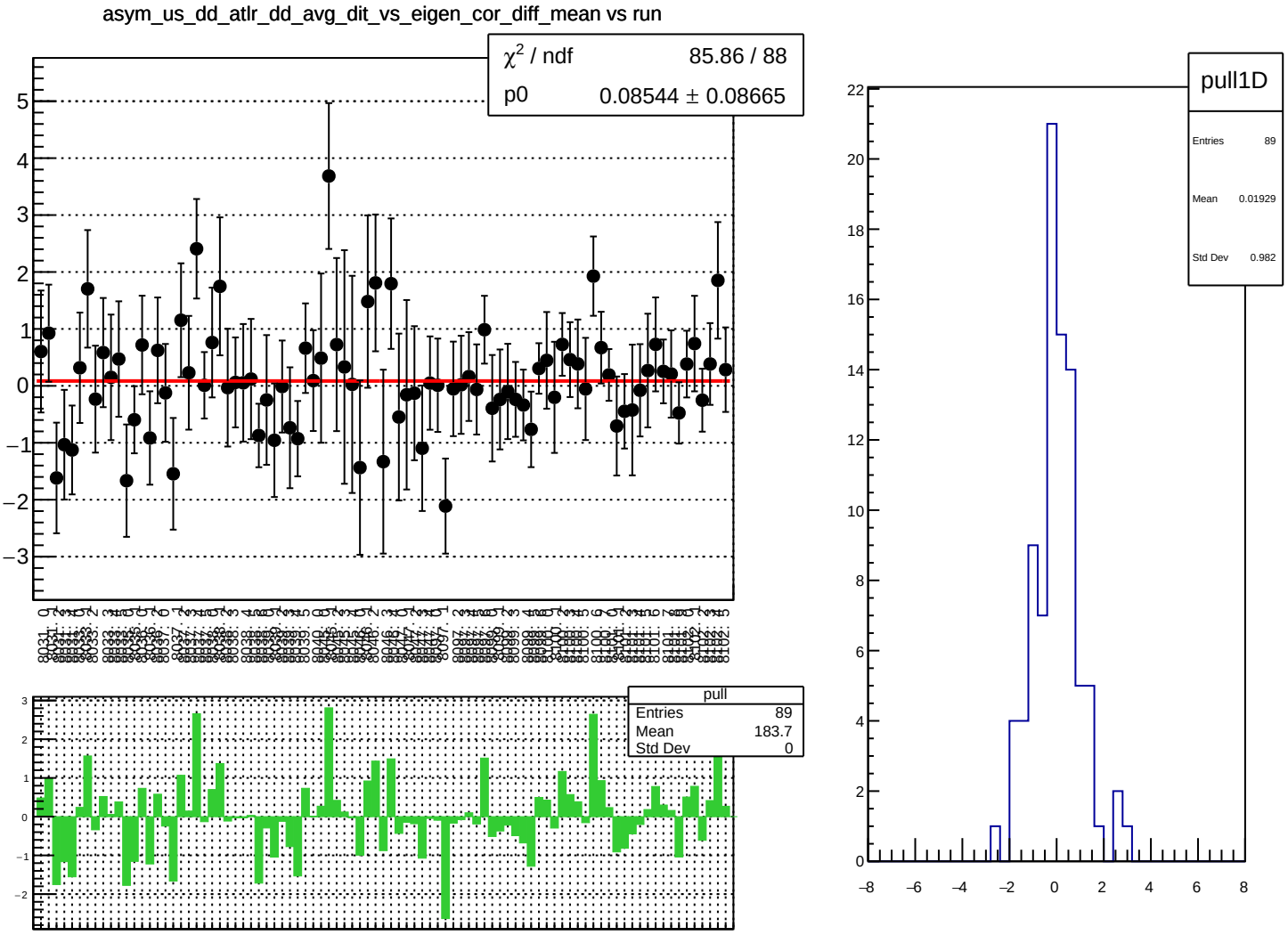

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 95.24 / 88
p0 −2.569e−13 ± 3.038e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 89
Mean −286.3
Std Dev 0
pull1D
Entries 89
Mean 0.01731
Std Dev 1.034

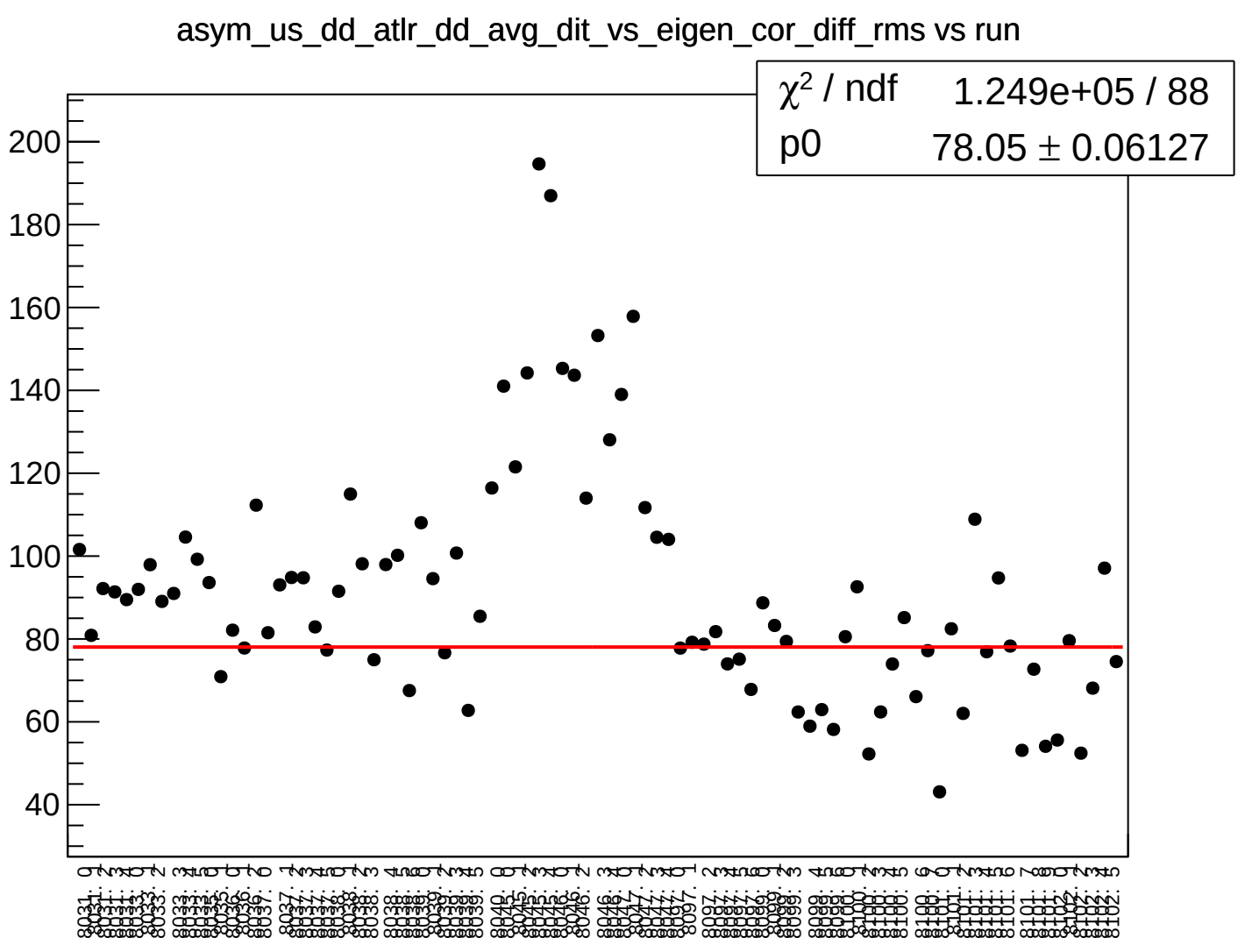

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.094e+06 / 88
p0 1.737e−10 ± 2.148e−13
1
0.8
0.6
0.4
0.2
0

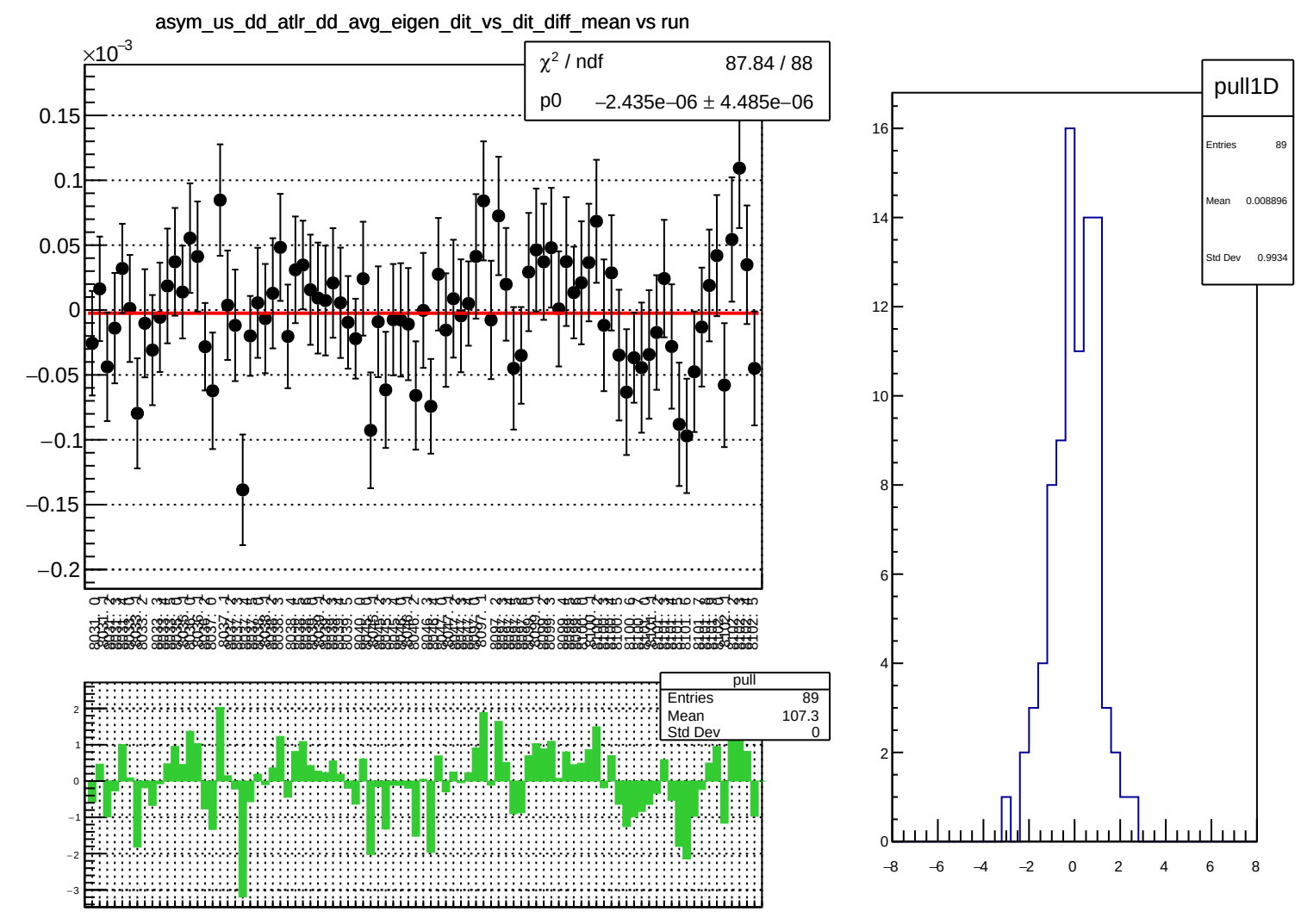

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 85.86 / 88
p0 0.08544 ± 0.08665
pull
Entries 89
Mean 183.7
Std Dev 0

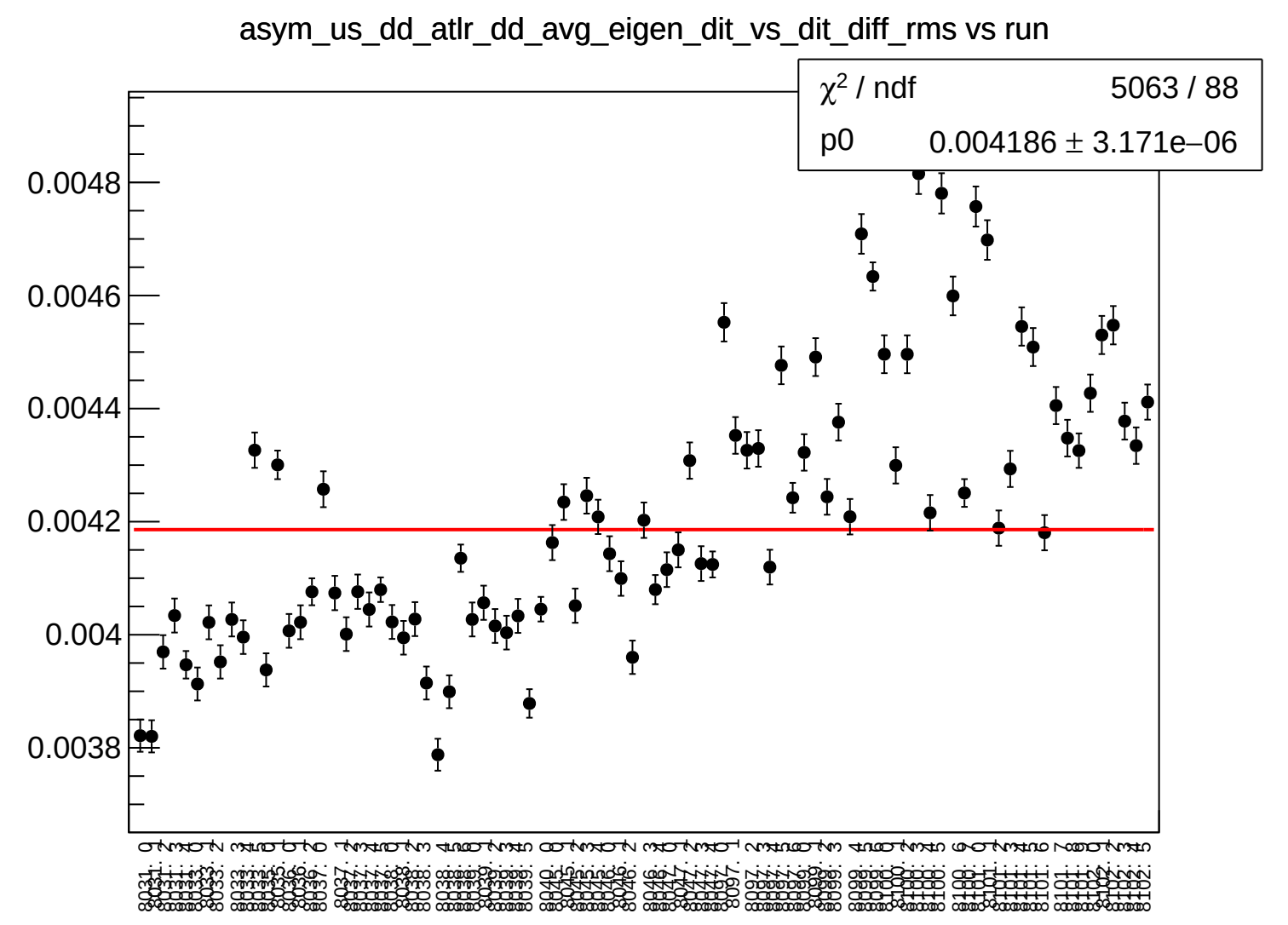

pull1D
Entries 89
Mean 0.01929
Std Dev 0.982

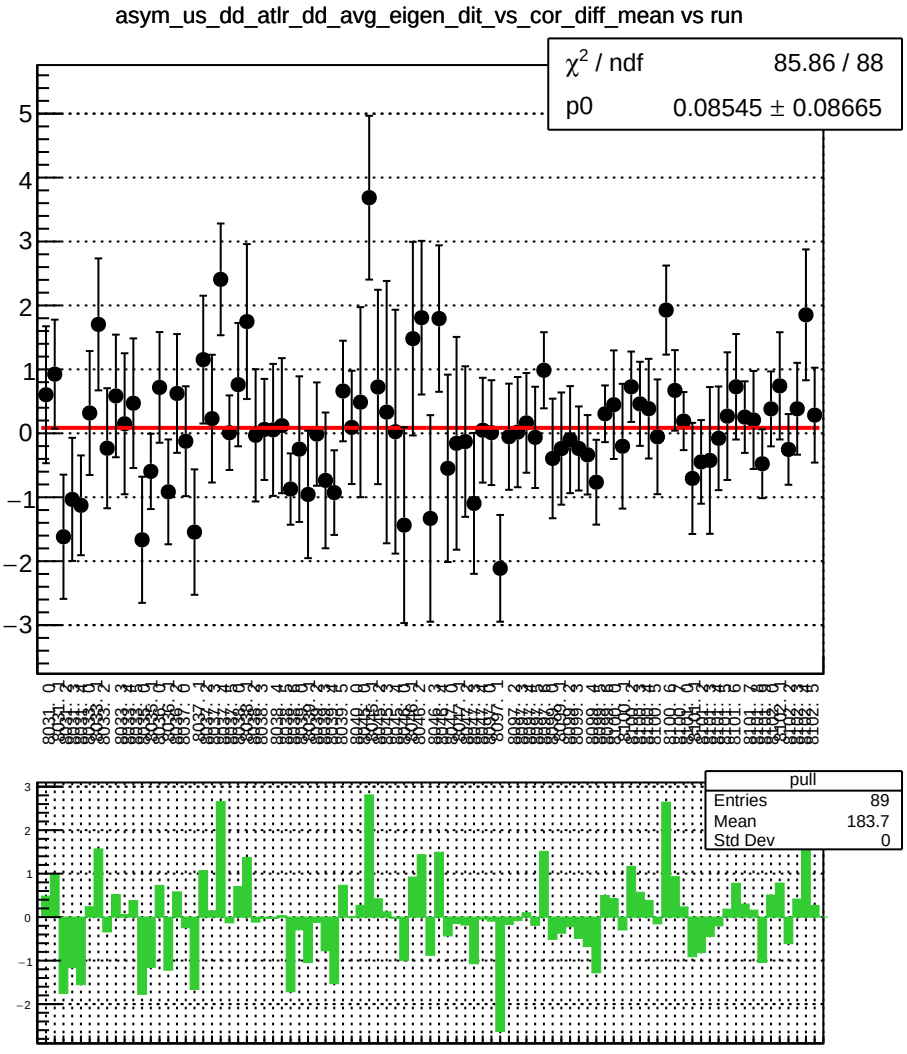

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.249e+05 / 88
p0 78.05 ± 0.06127
200
180
160
140
120
100
80
60
40

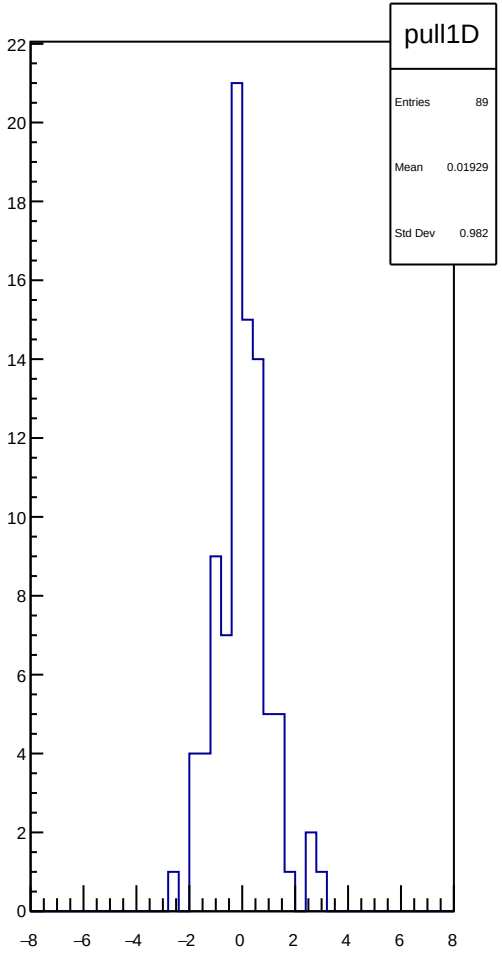

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.86 / 88
p0 0.08544 ± 0.08665
pull
Entries 89
Mean 183.7
Std Dev 0
pull1D
Entries 89
Mean 0.01929
Std Dev 0.982

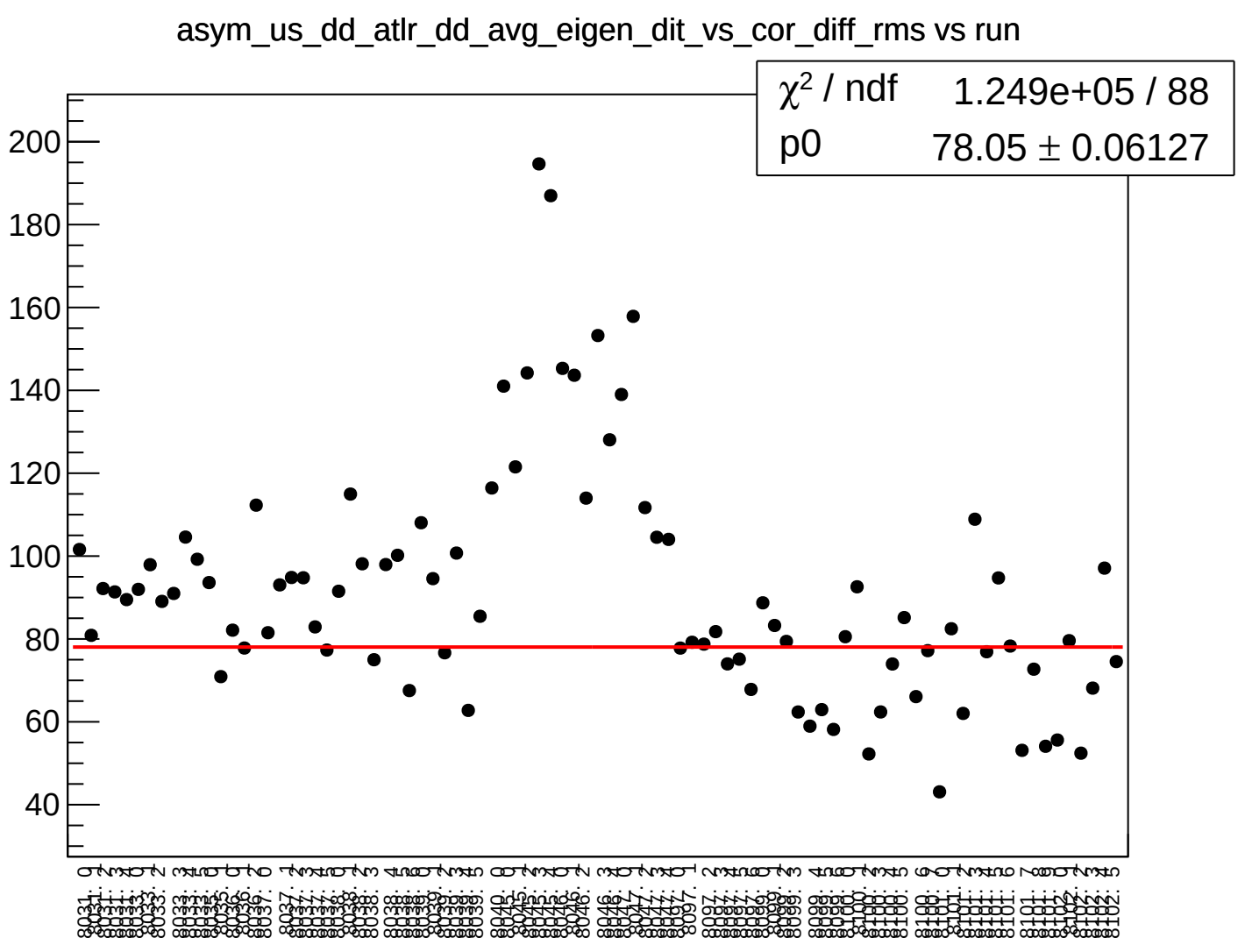

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.249e+05 / 88
p0 78.05 ± 0.06127
200
180
160
140
120
100
80
60
40

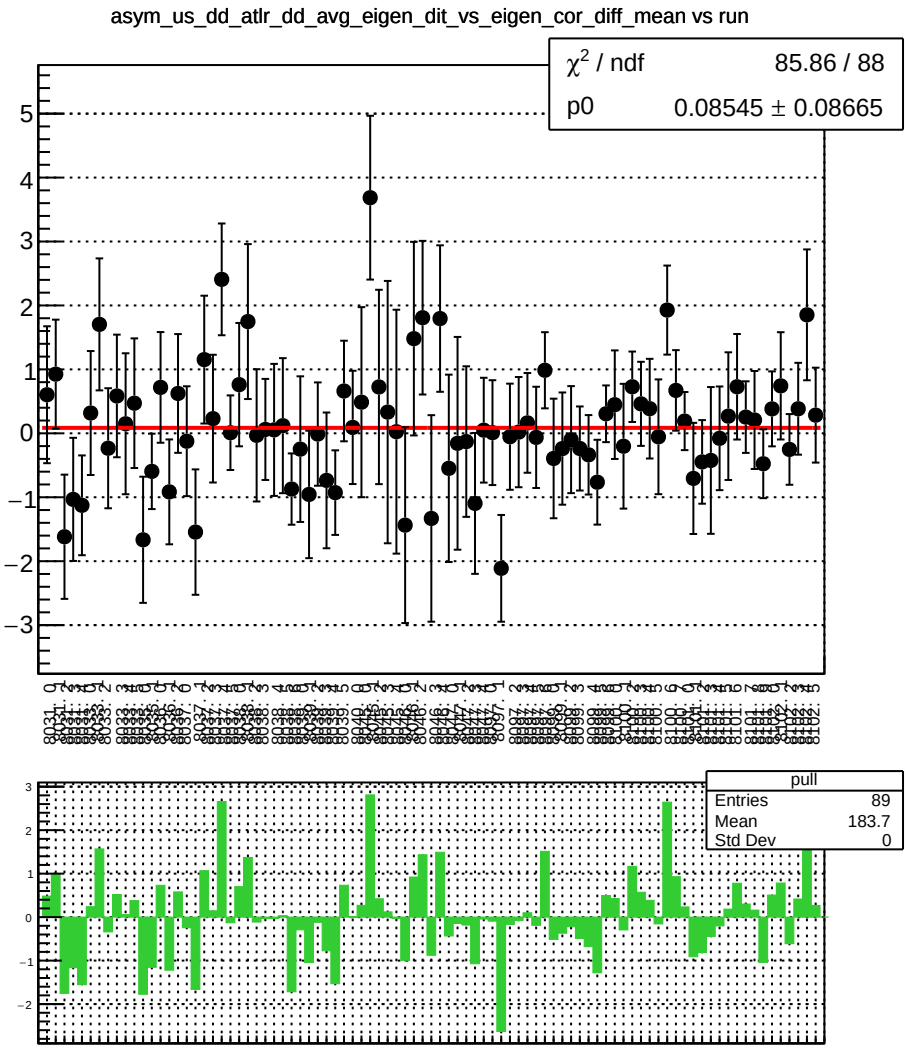

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.84 / 88
p0 −2.435e−06 ± 4.485e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 89
Mean 107.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.008896
Std Dev 0.9934
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

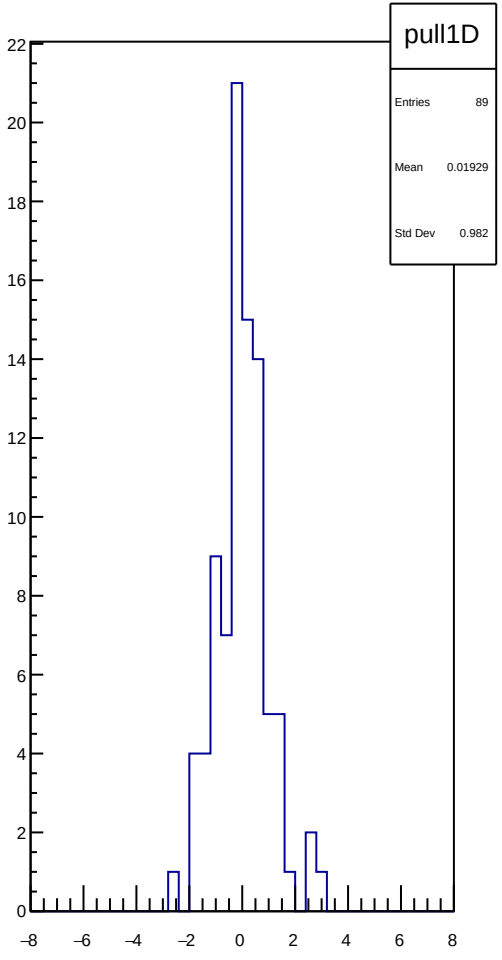

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5063 / 88
p0 0.004186 ± 3.171e−06
0.0048
0.0046
0.0044
0.0042
0.004
0.0038

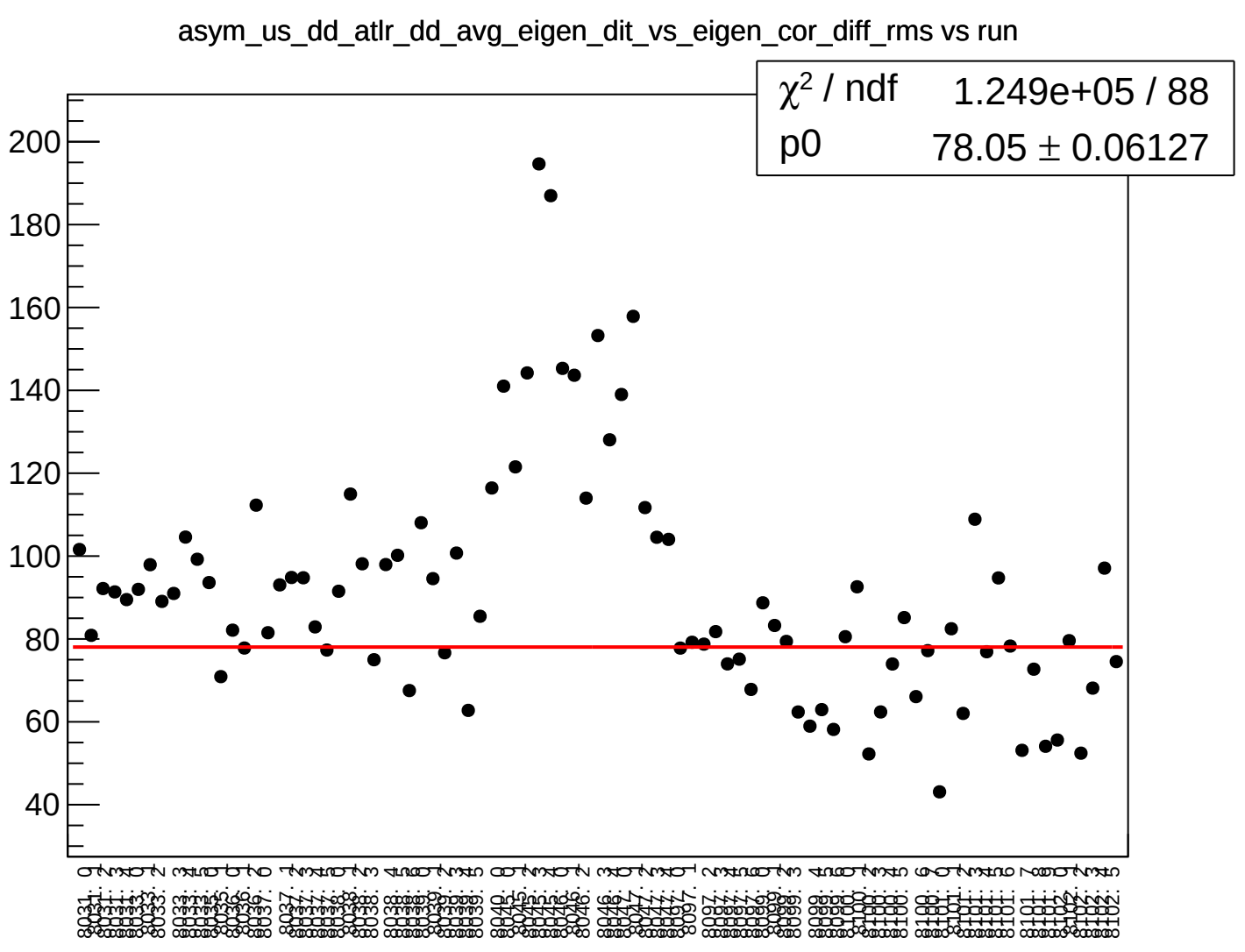

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.86 / 88
p0 0.08545 ± 0.08665
pull
Entries 89
Mean 183.7
Std Dev 0

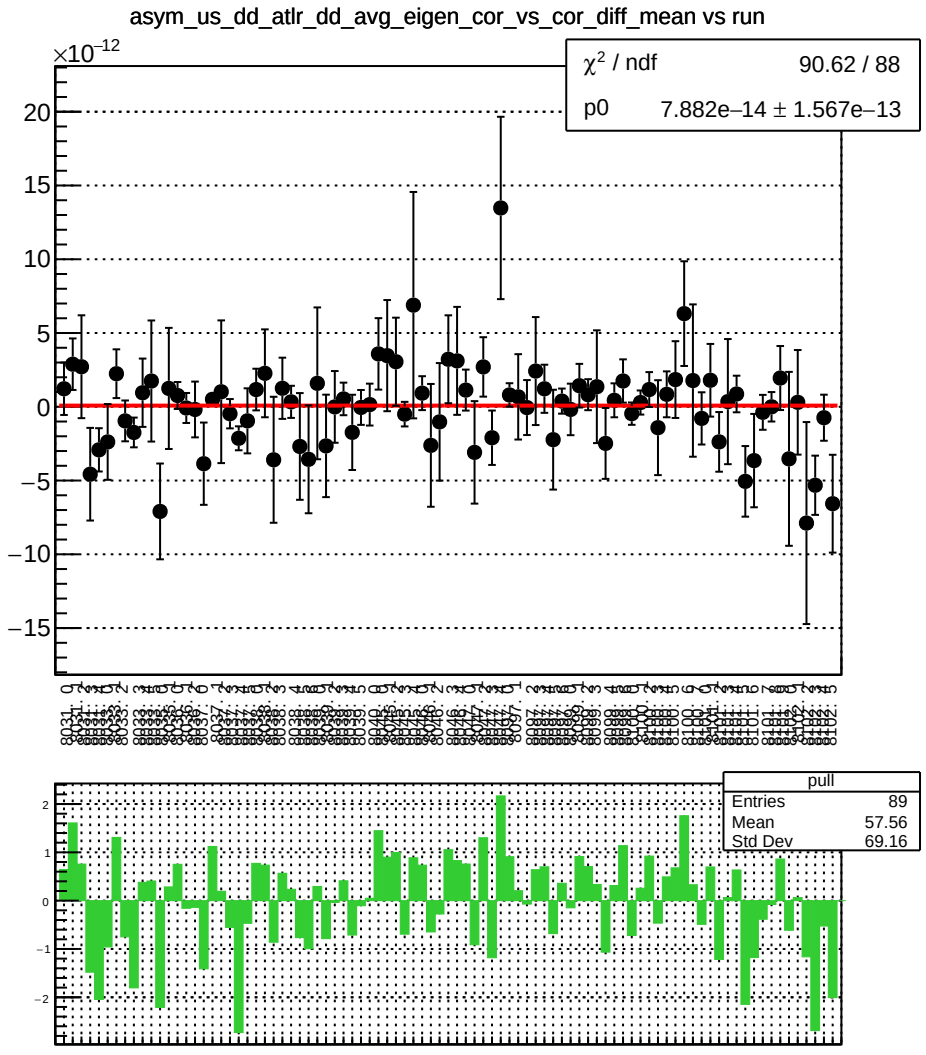

pull1D
Entries 89
Mean 0.01929
Std Dev 0.982

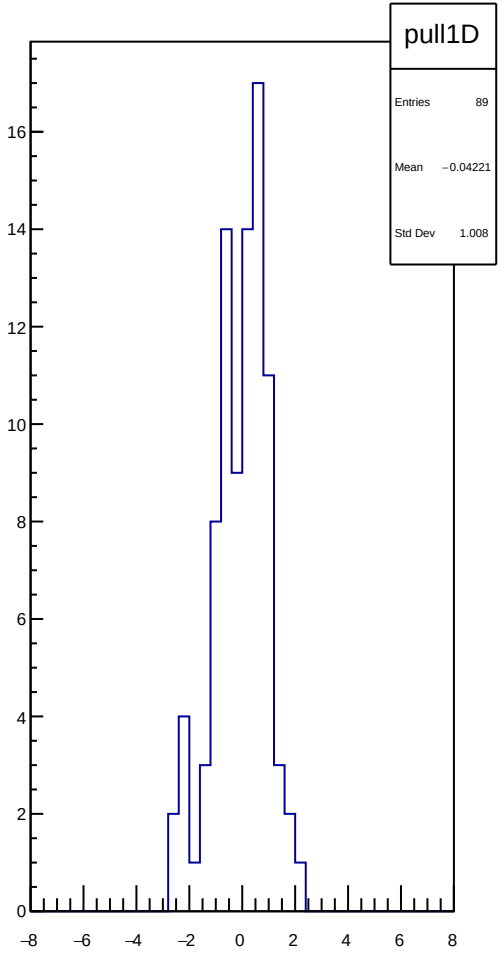

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.249e+05 / 88
p0 78.05 ± 0.06127
200
180
160
140
120
100
80
60
40

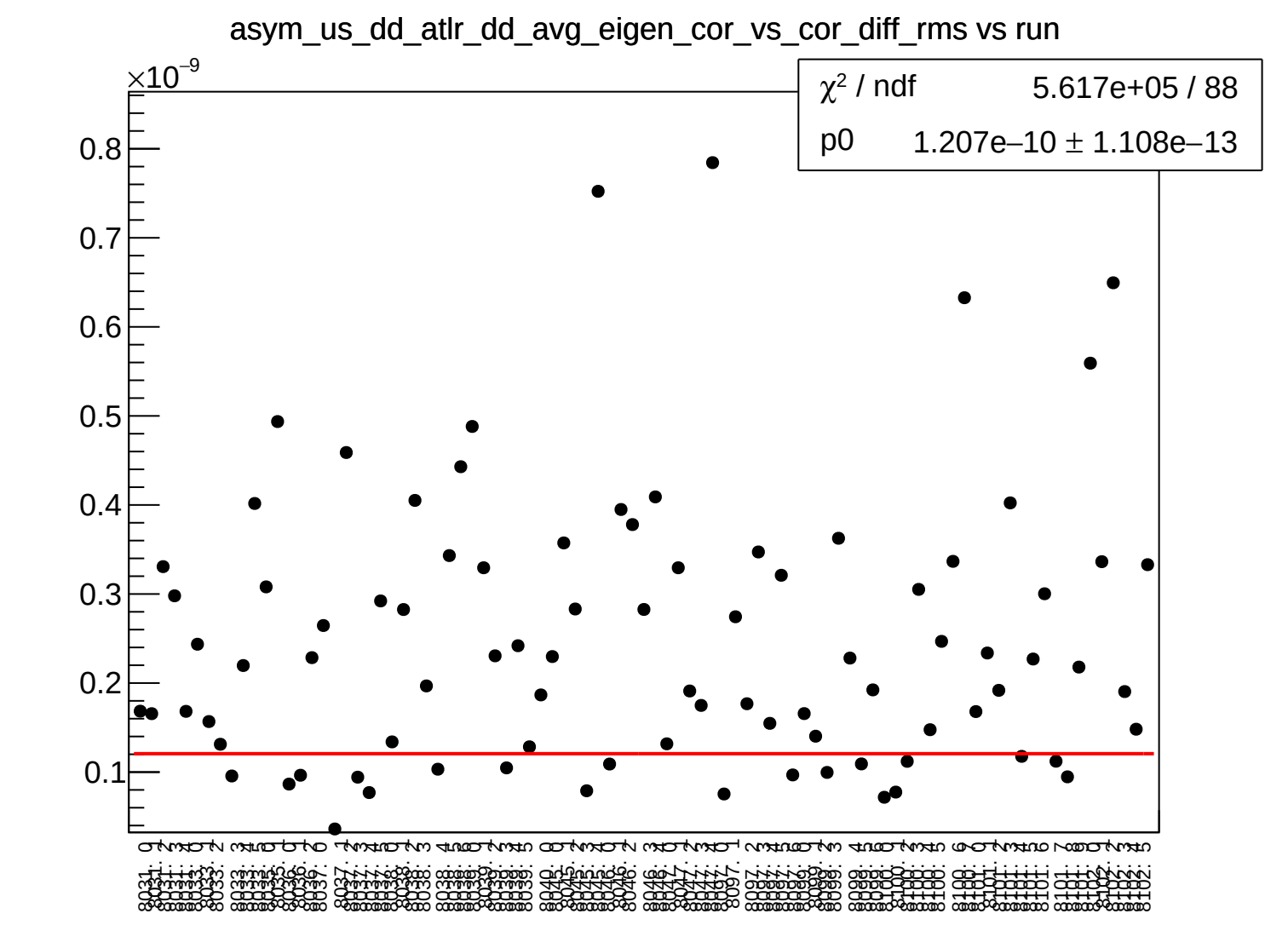

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.86 / 88
p0 0.08545 ± 0.08665
pull
Entries 89
Mean 183.7
Std Dev 0

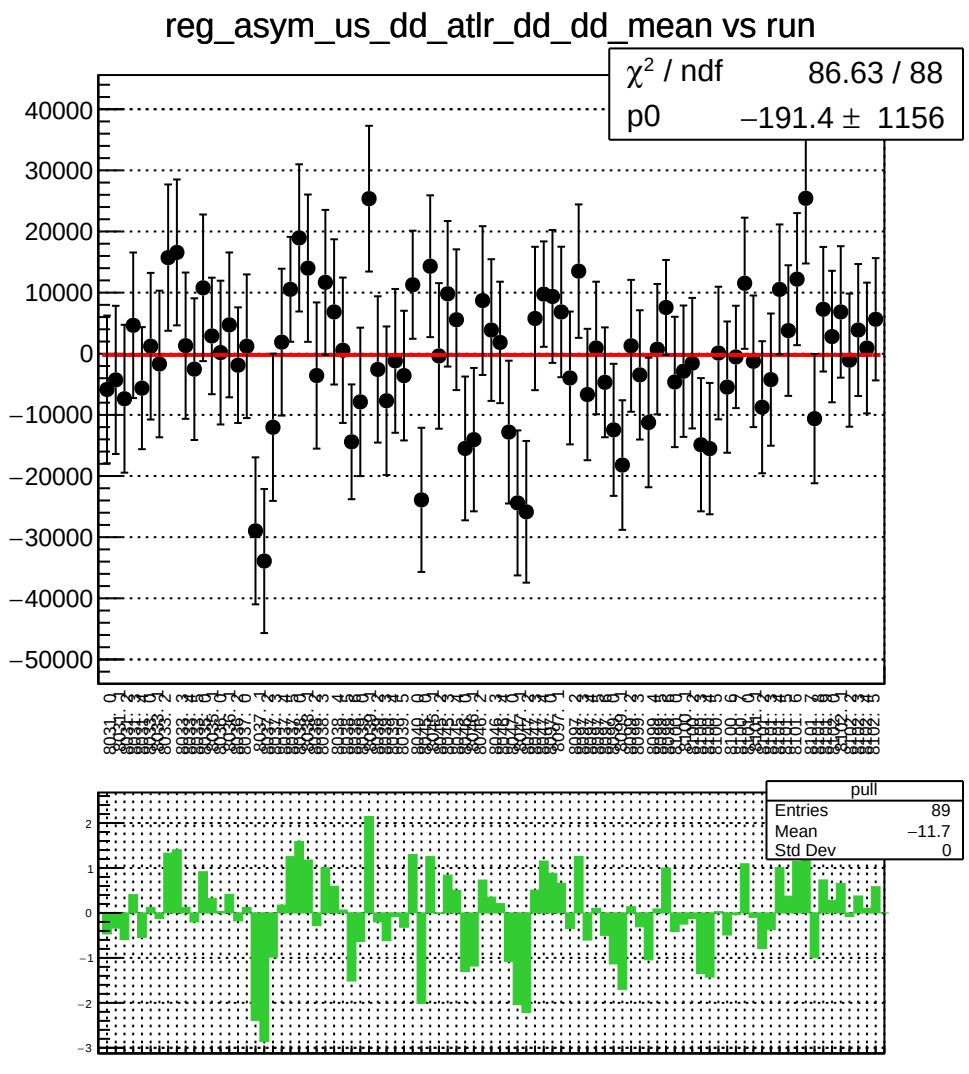

pull1D
Entries 89
Mean 0.01929
Std Dev 0.982

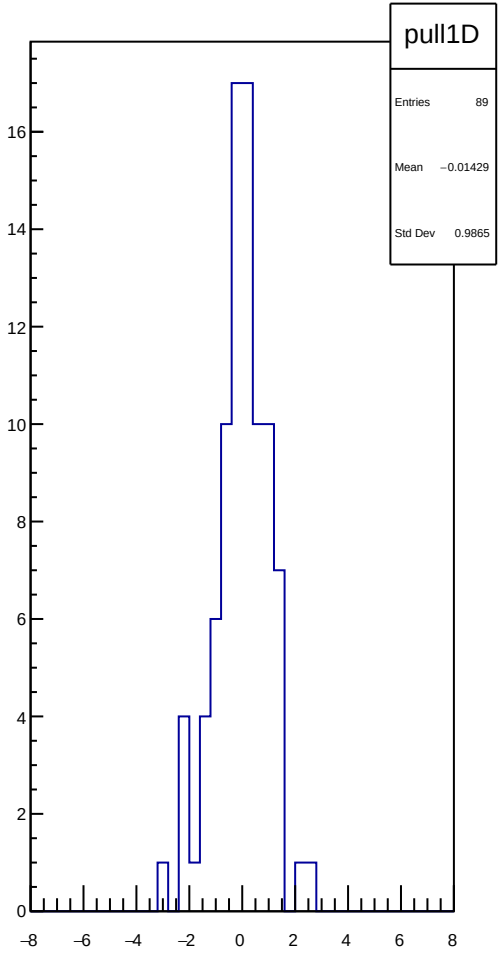

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.249e+05 / 88
p0 78.05 ± 0.06127
200
180
160
140
120
100
80
60
40

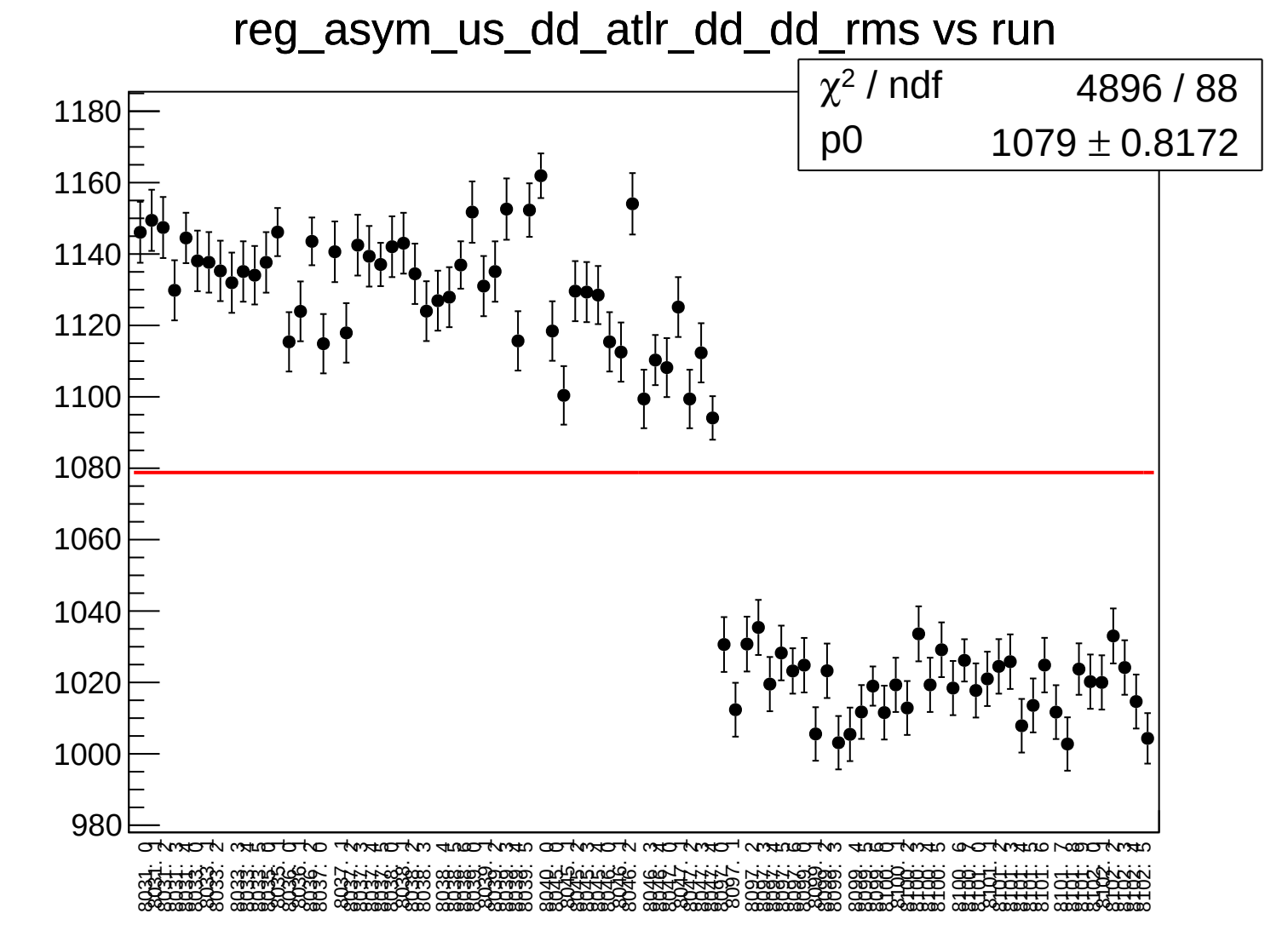

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.62 / 88
p0 7.882e−14 ± 1.567e−13
pull
Entries 89
Mean 57.56
Std Dev 69.16

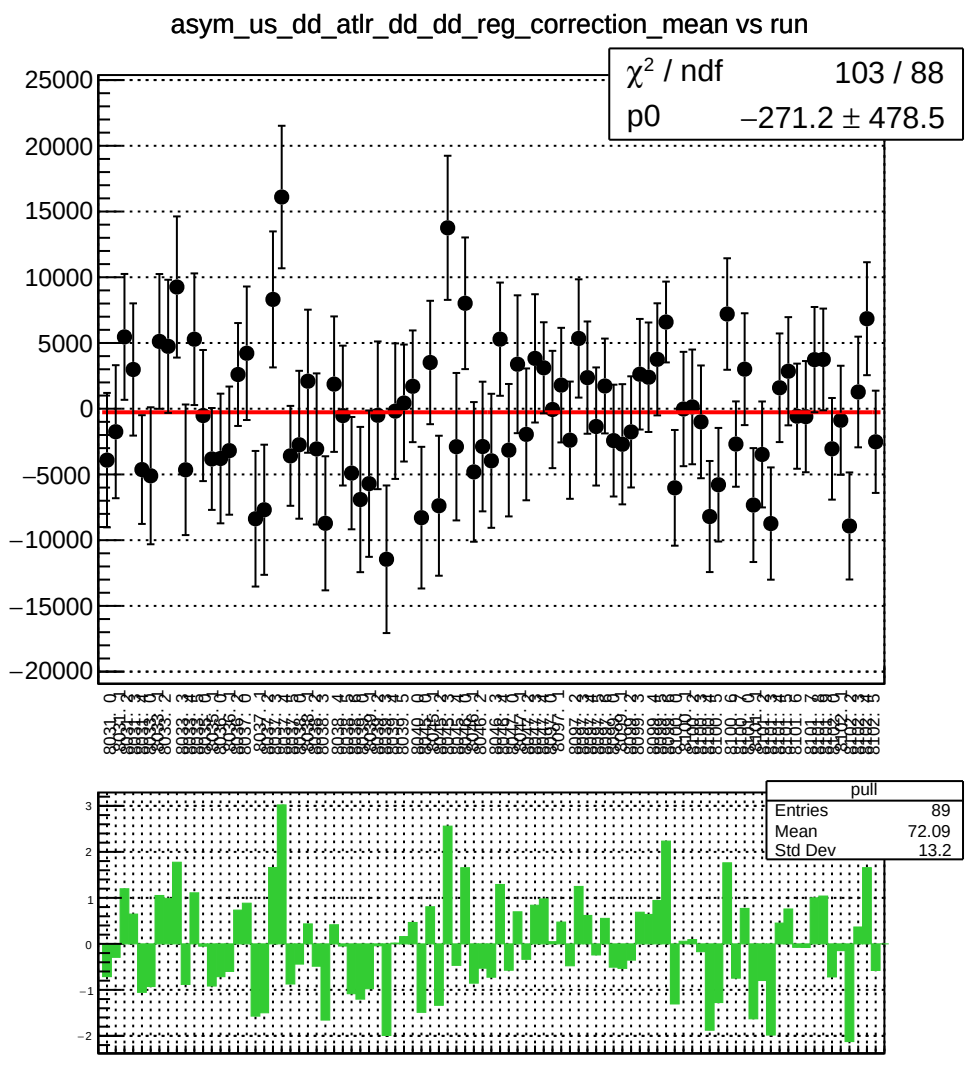

pull1D
Entries 89
Mean −0.04221
Std Dev 1.008

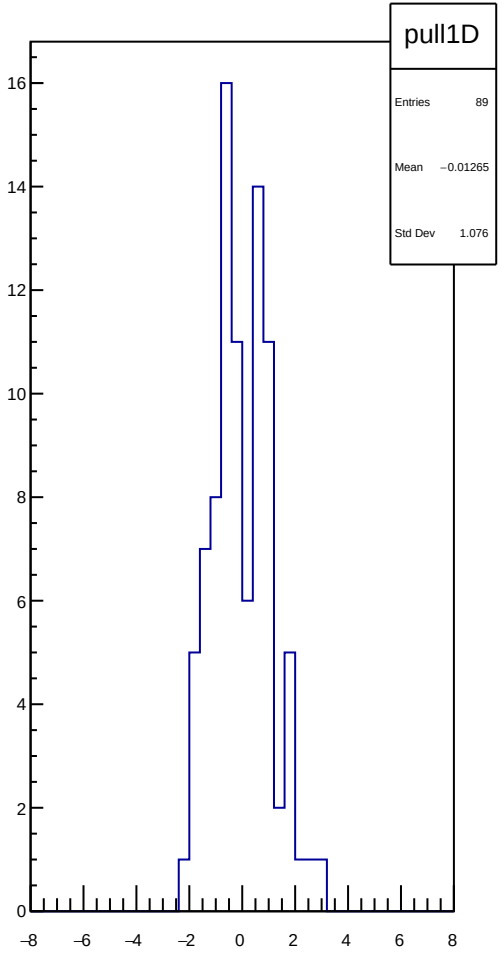

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.617e+05 / 88
p0 1.207e−10 ± 1.108e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

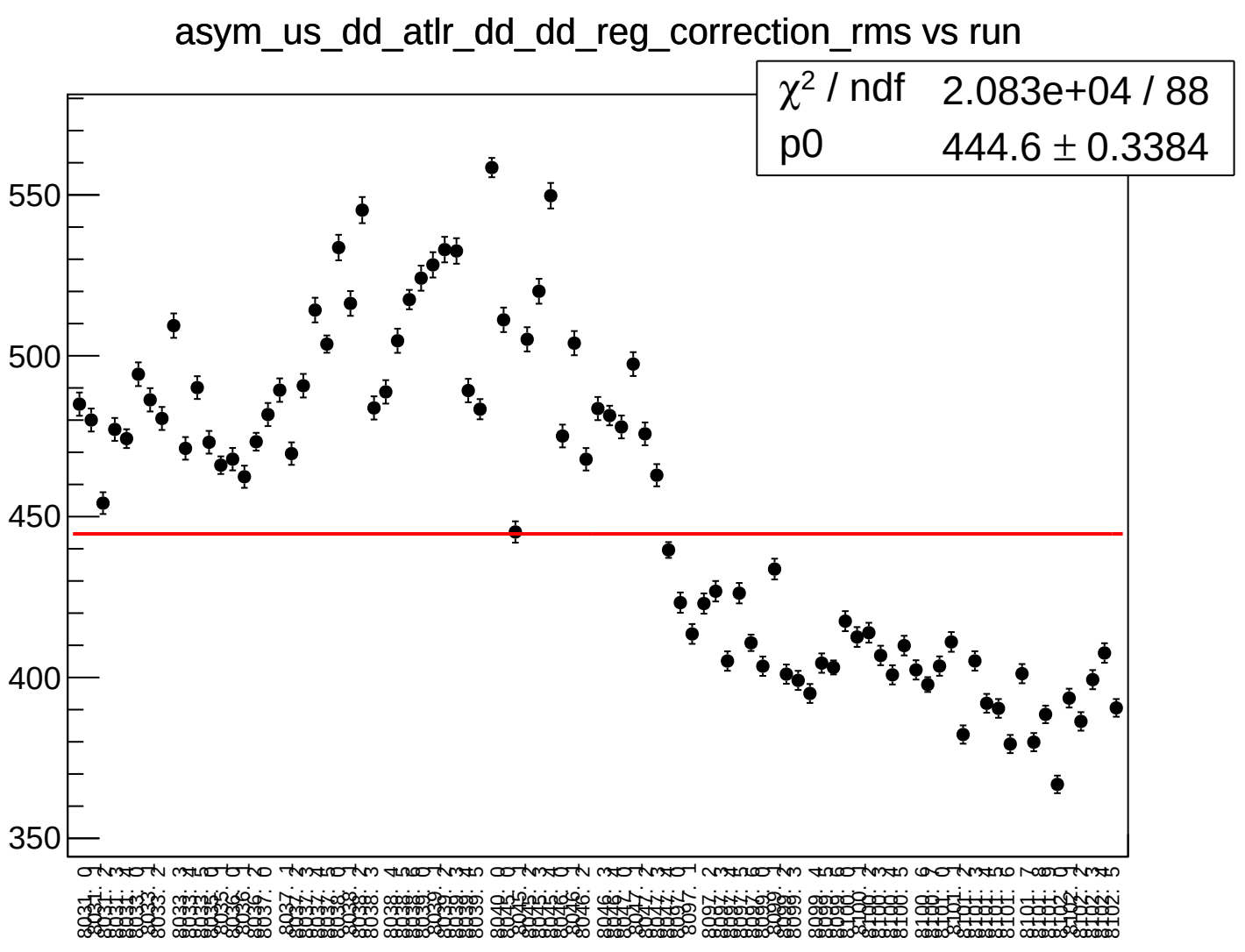

reg_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 86.63 / 88
p0 −191.4 ± 1156
pull
Entries 89
Mean −11.7
Std Dev 0

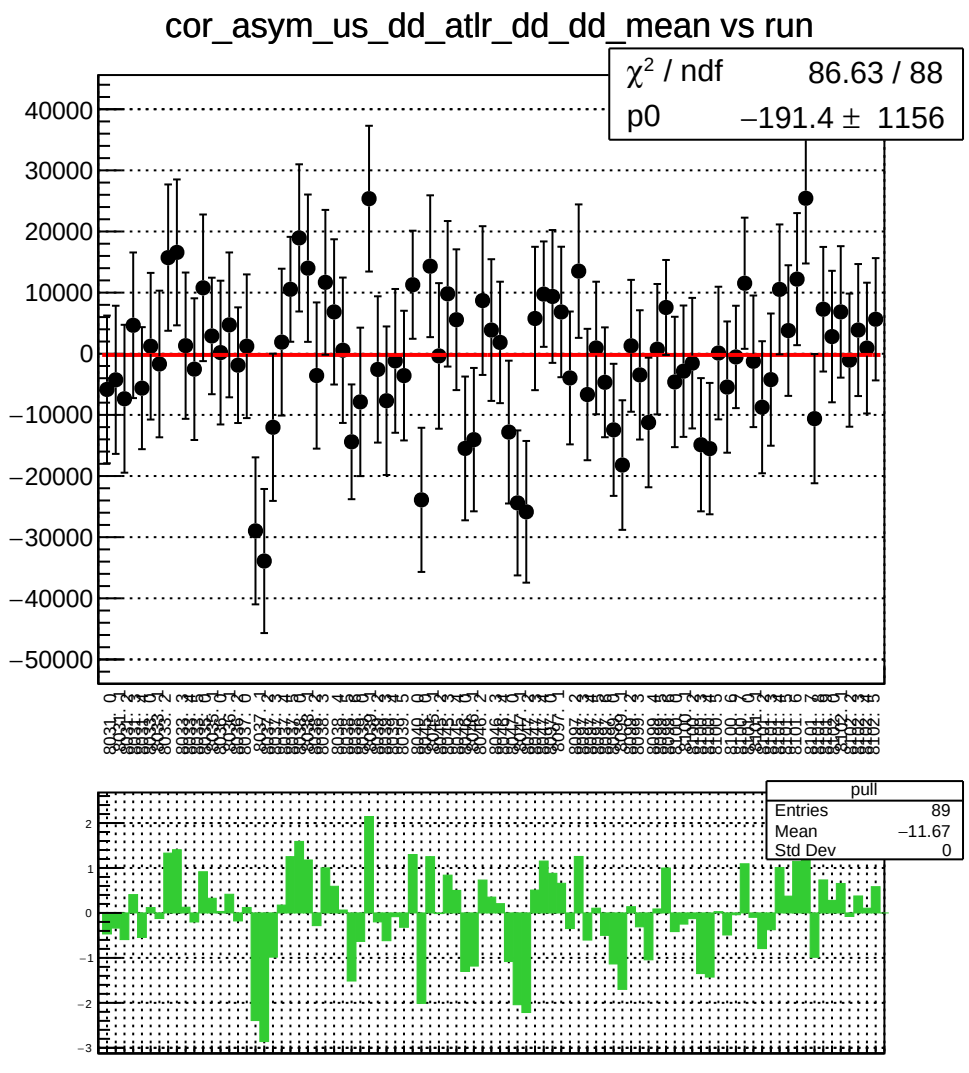

pull1D
Entries 89
Mean −0.01429
Std Dev 0.9865

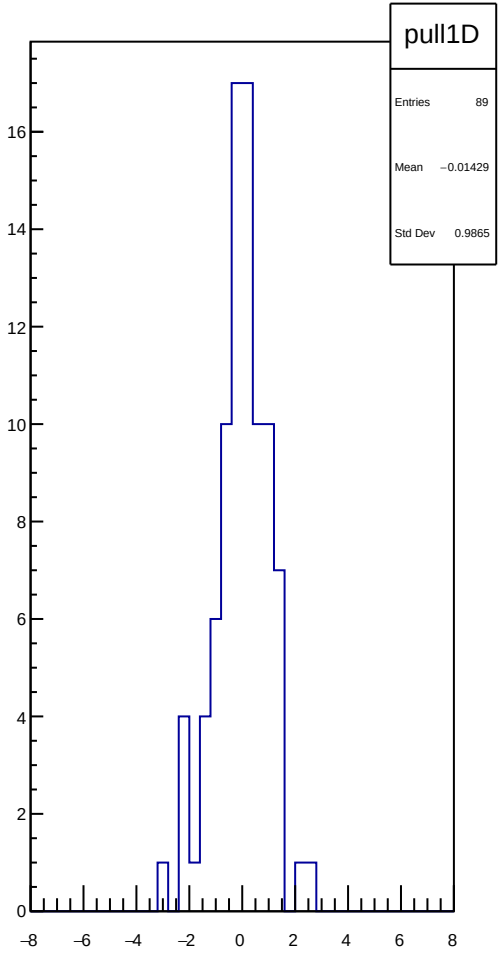

reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 4896 / 88
p0 1079 ± 0.8172
1180
1160
1140
1120
1100
1080
1060
1040
1020
1000
980

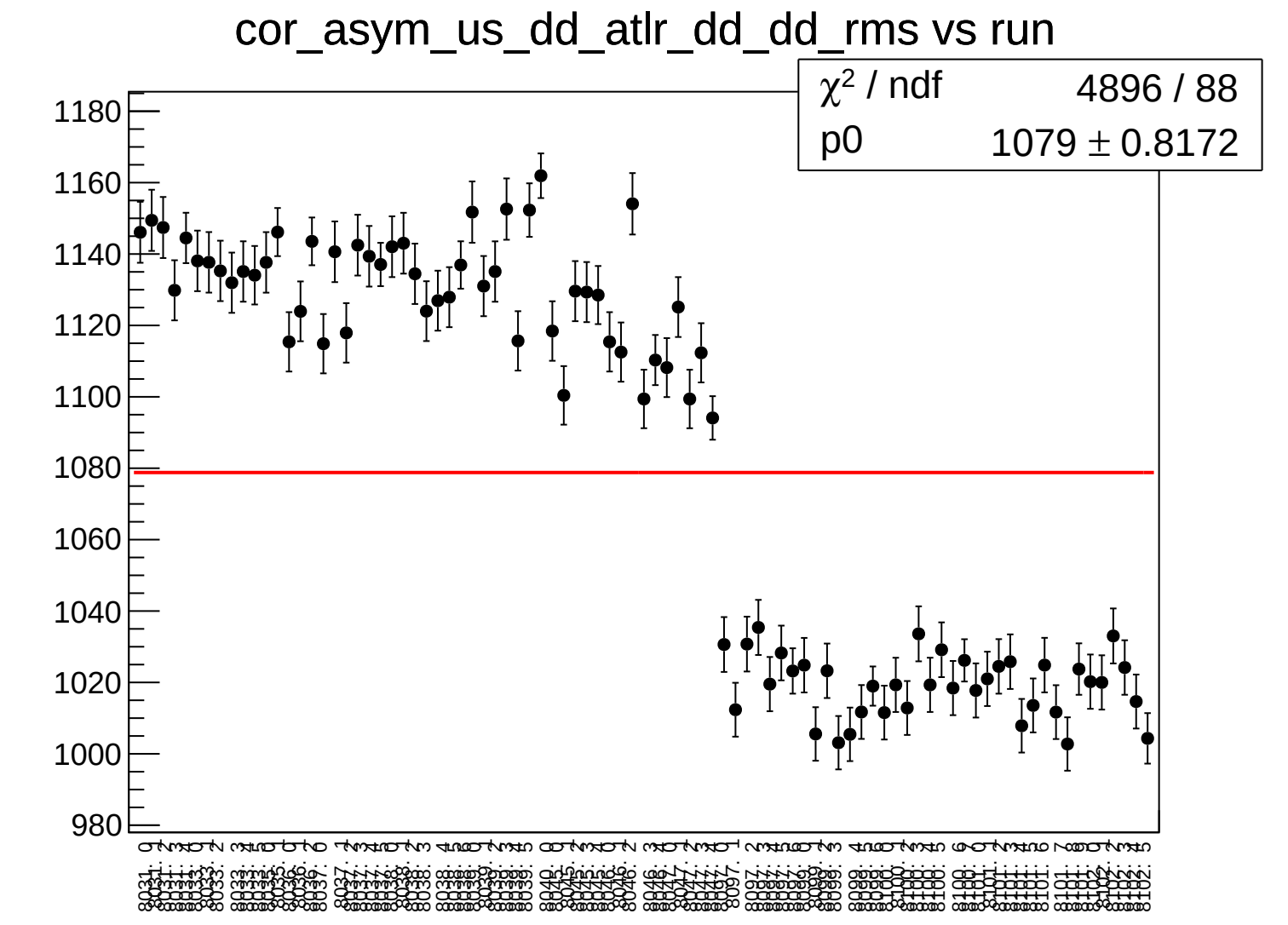

asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 103 / 88
p0 −271.2 ± 478.5
pull
Entries 89
Mean 72.09
Std Dev 13.2

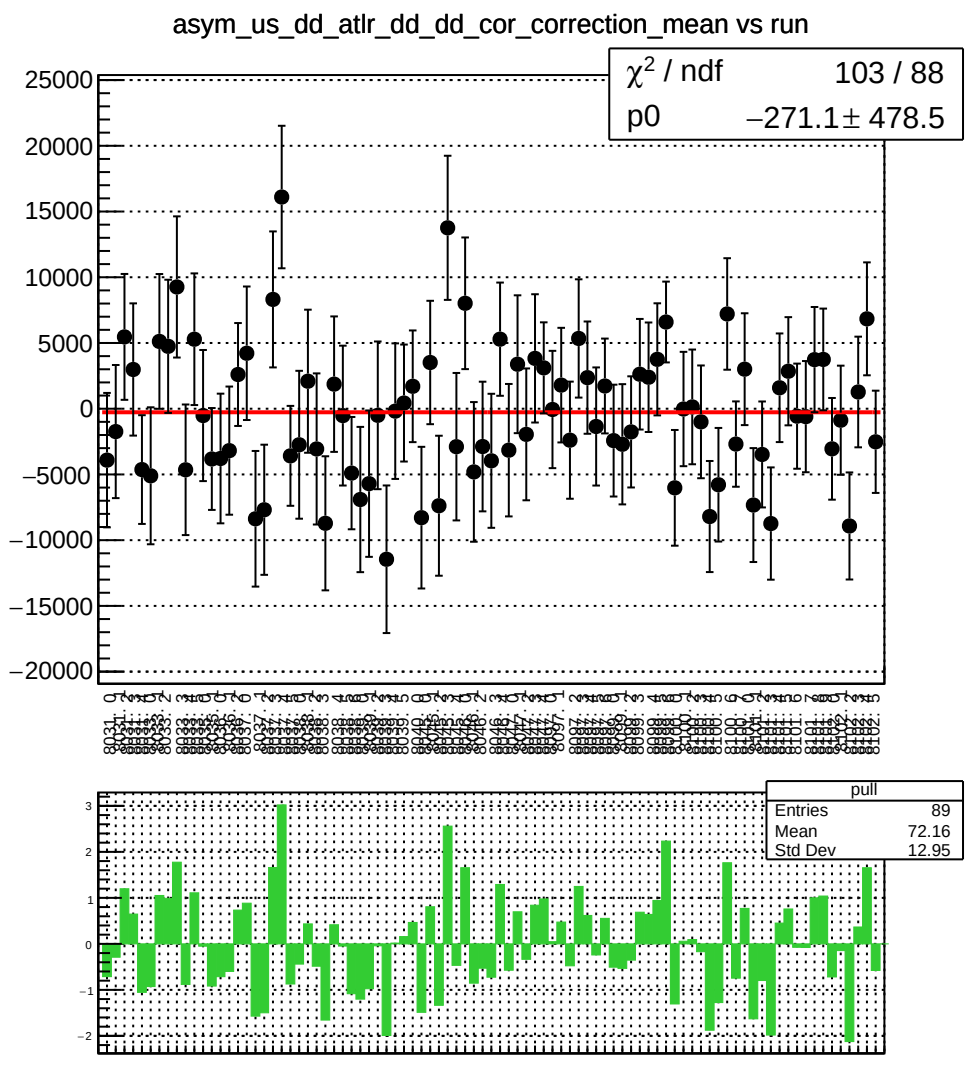

pull1D
Entries 89
Mean −0.01265
Std Dev 1.076

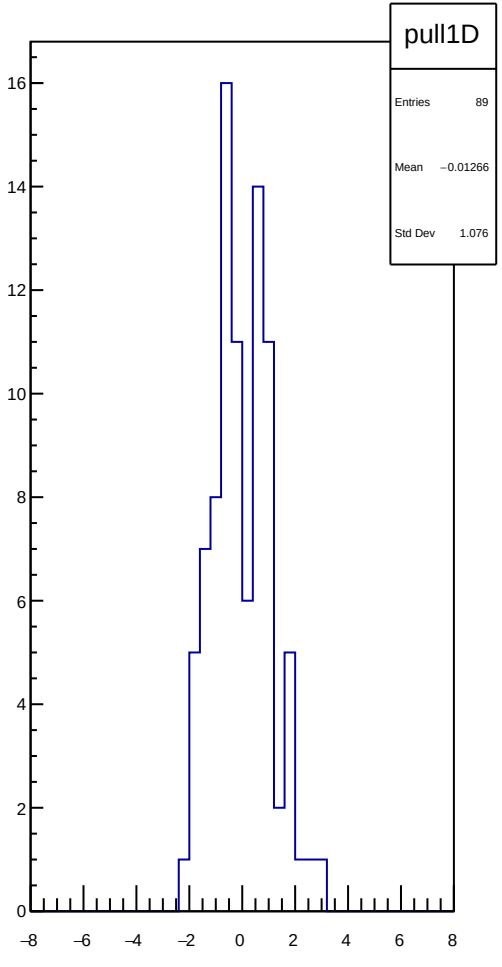

asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 2.083e+04 / 88
p0 444.6 ± 0.3384
550
500
450
400
350

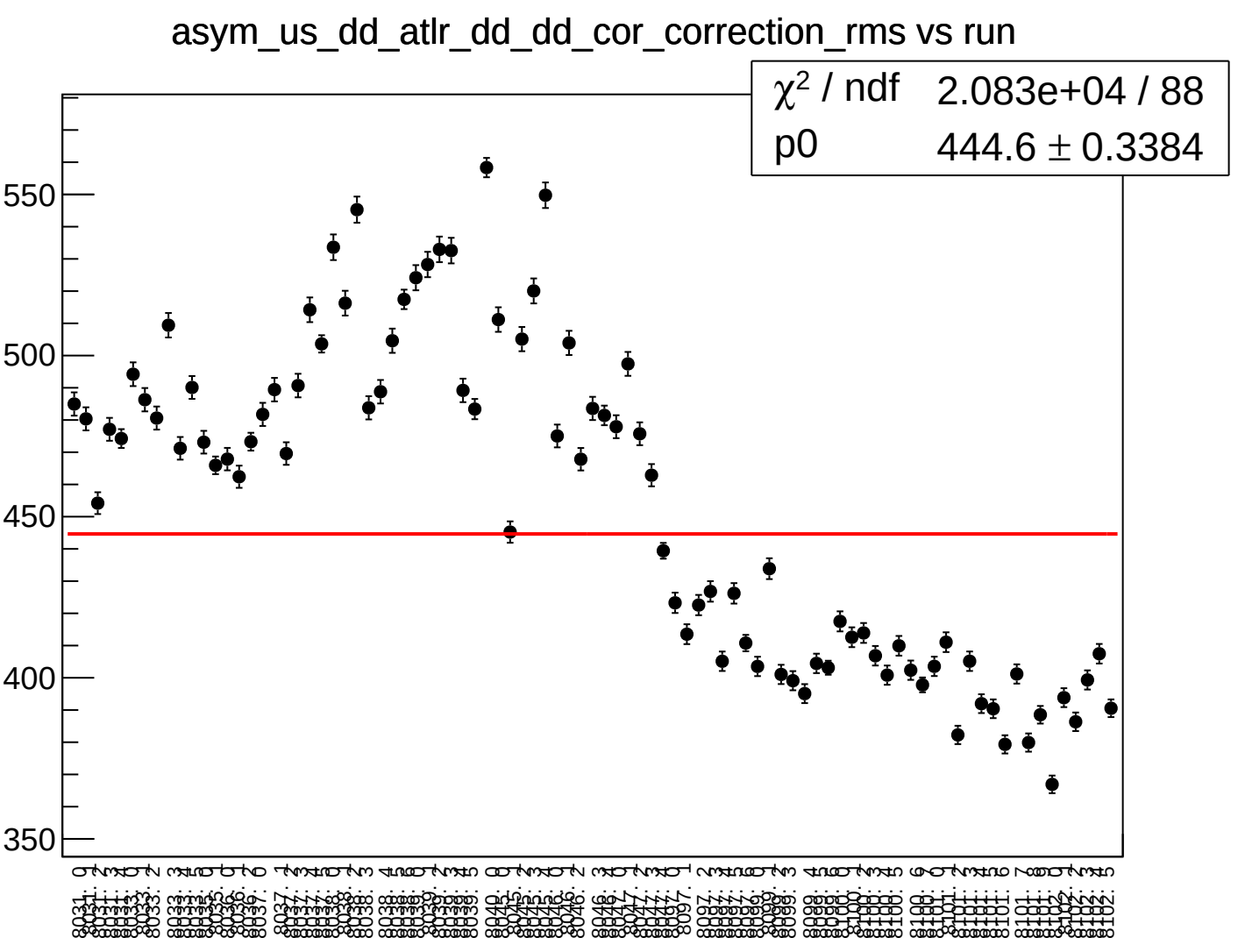

cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 86.63 / 88
p0 −191.4 ± 1156
pull
Entries 89
Mean −11.67
Std Dev 0

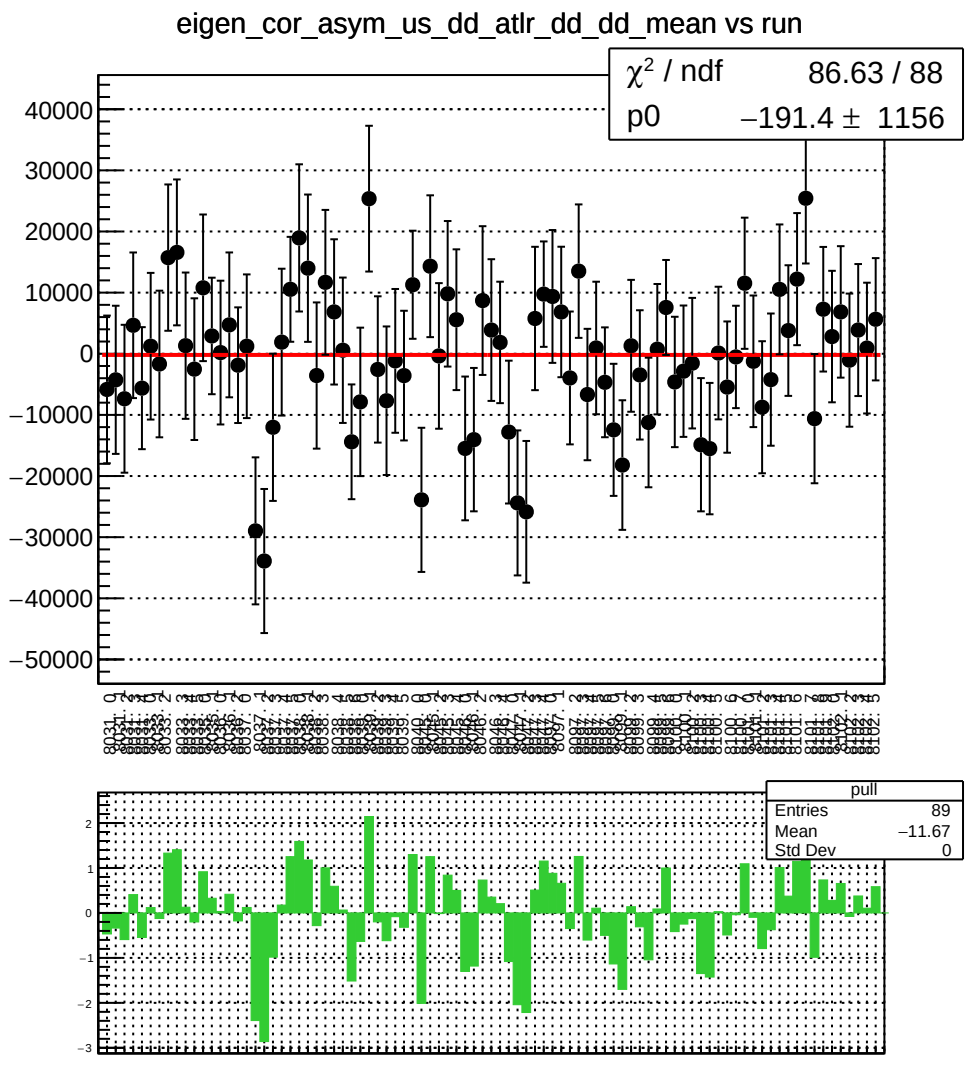

pull1D
Entries 89
Mean −0.01429
Std Dev 0.9865

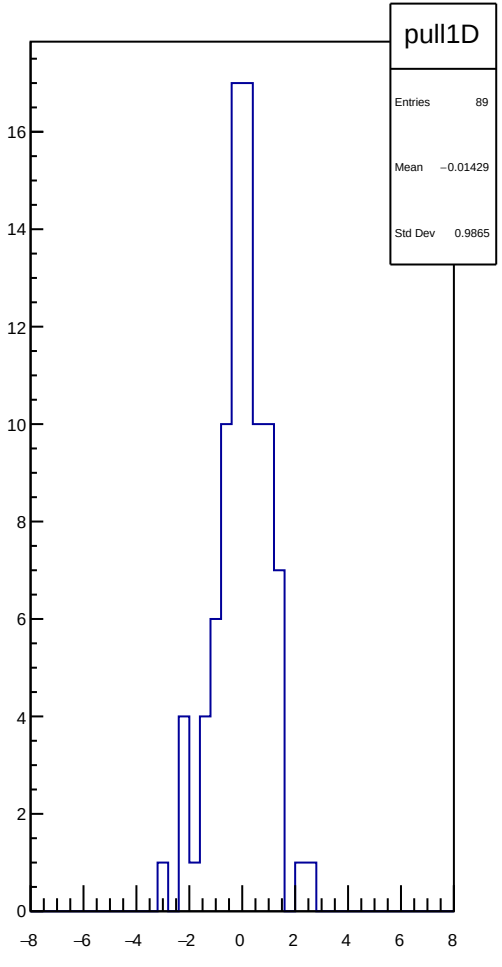

cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 4896 / 88
p0 1079 ± 0.8172
1180
1160
1140
1120
1100
1080
1060
1040
1020
1000
980

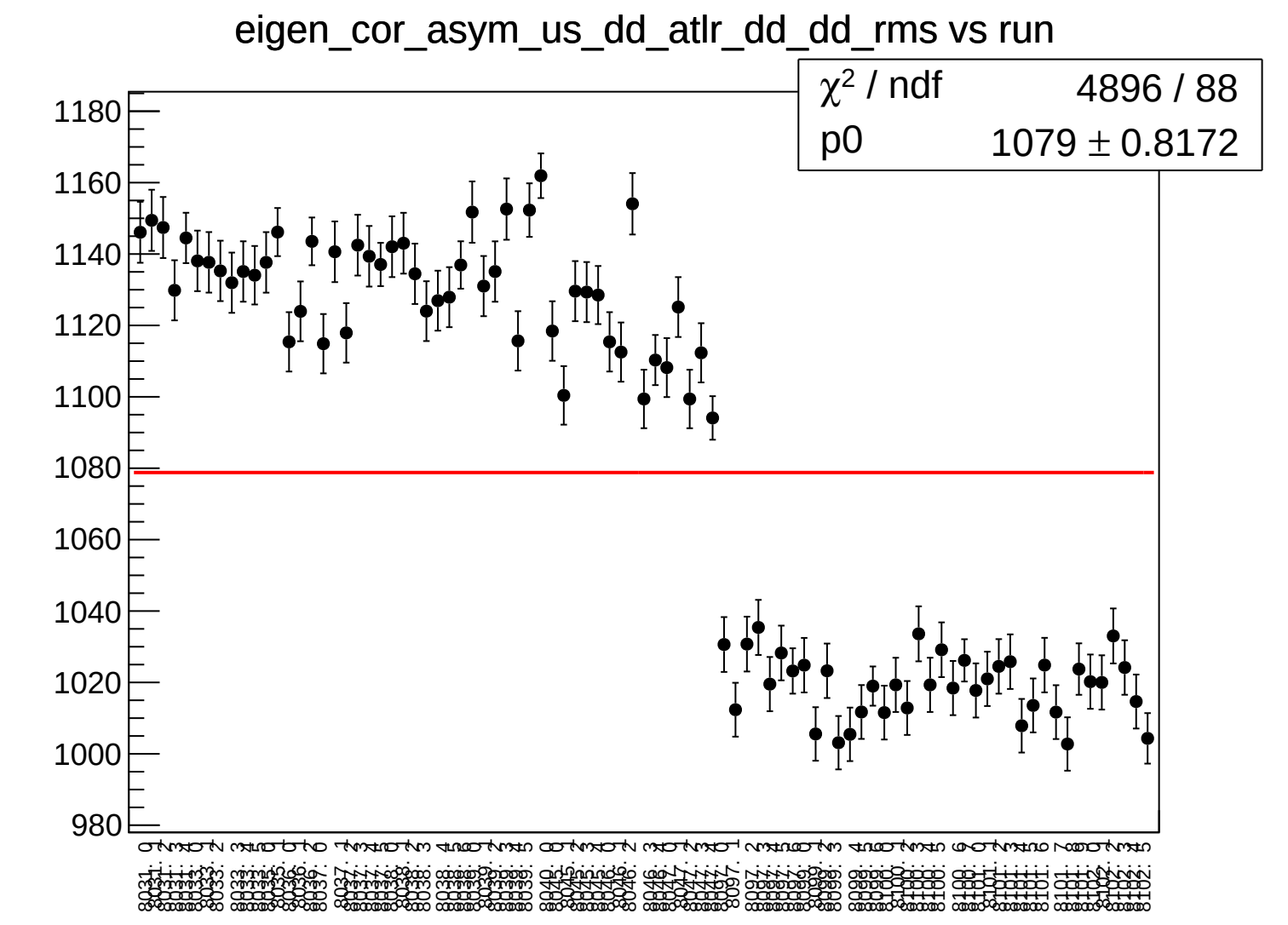

asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 103 / 88
p0 −271.1± 478.5
pull
Entries 89
Mean 72.16
Std Dev 12.95

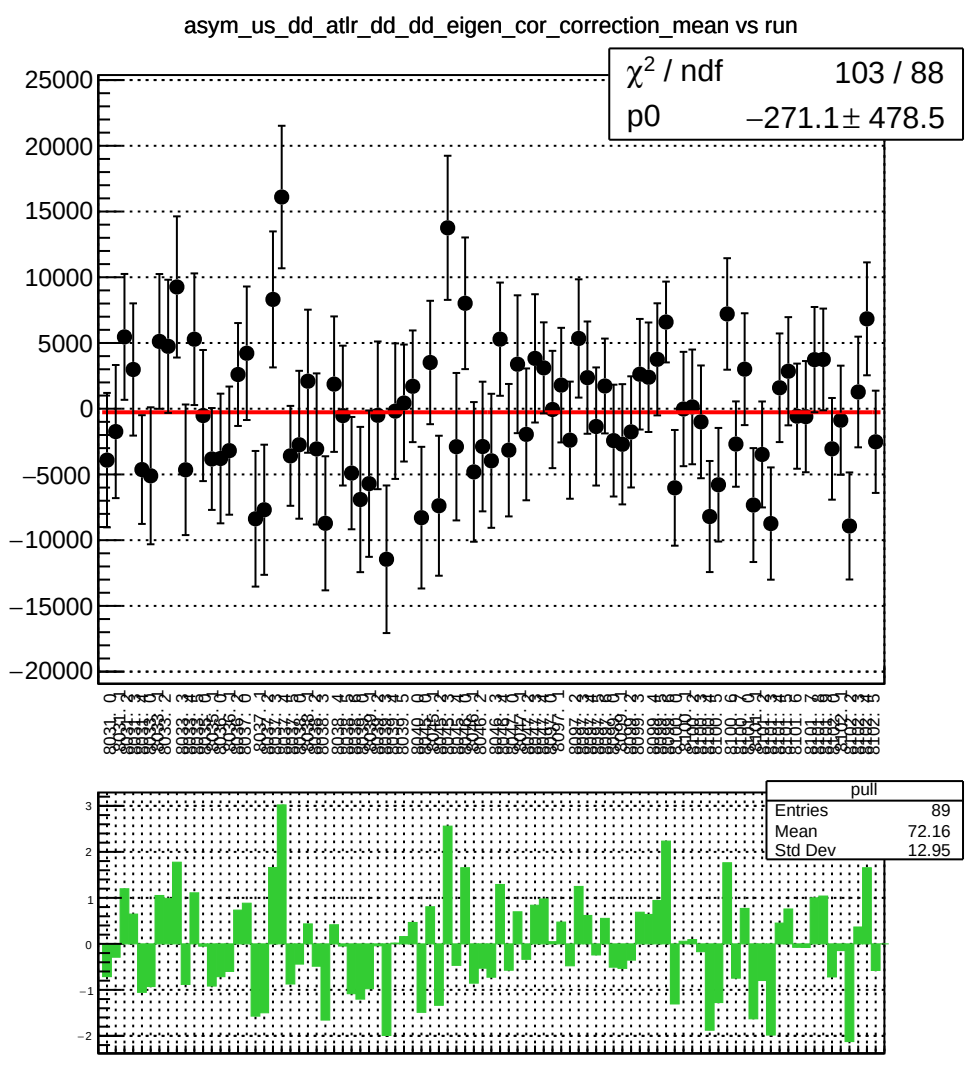

pull1D
Entries 89
Mean −0.01266
Std Dev 1.076

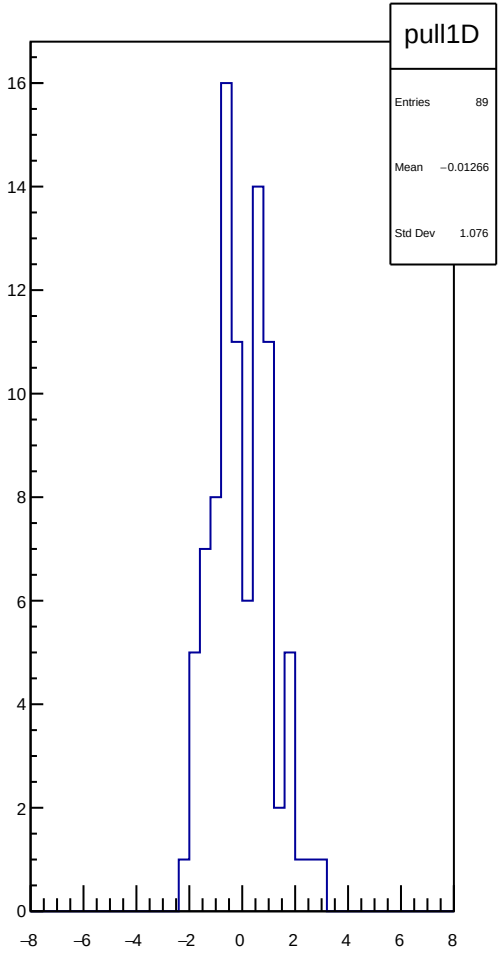

asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 2.083e+04 / 88
p0 444.6 ± 0.3384
550
500
450
400
350

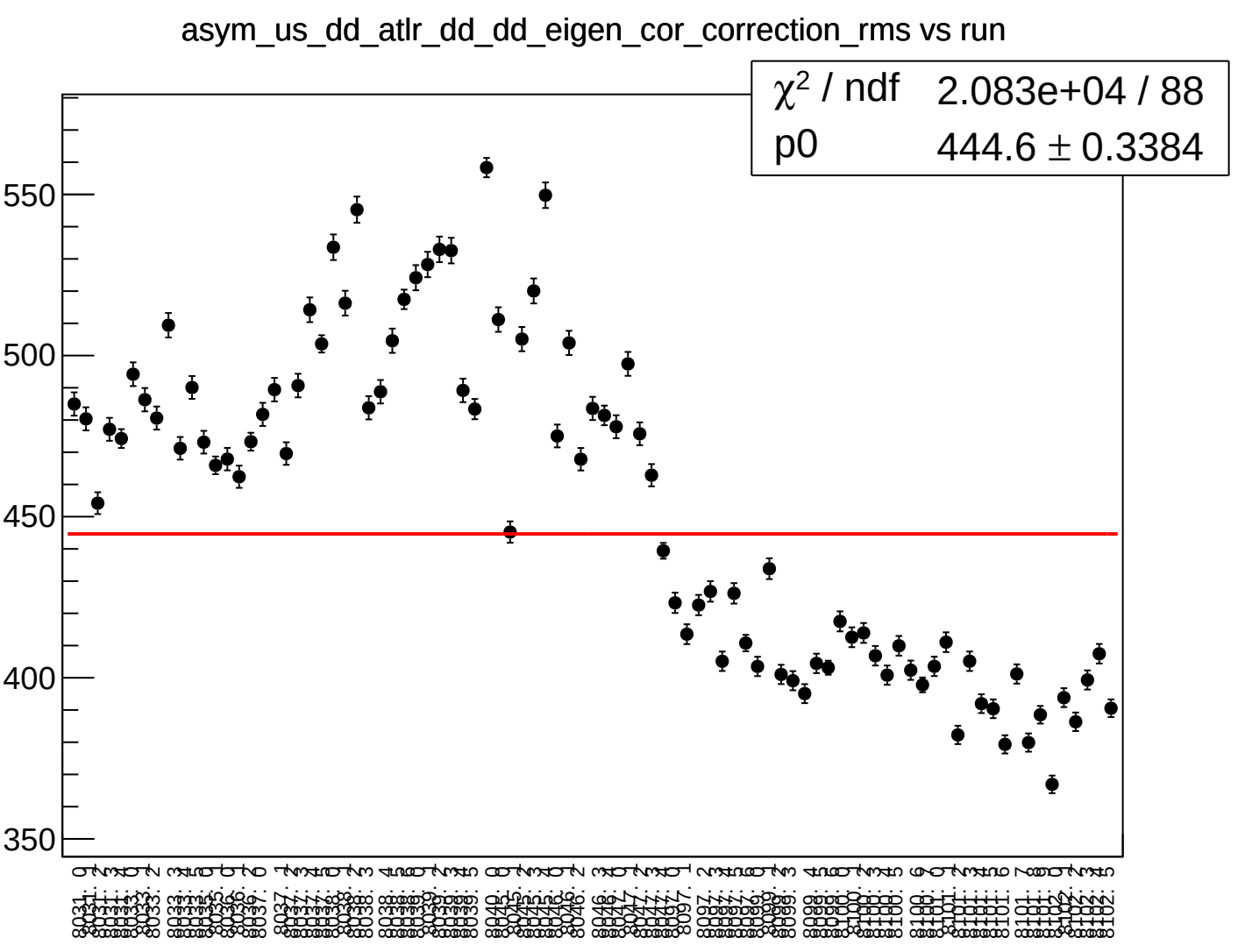

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 86.63 / 88
p0 −191.4 ± 1156
pull
Entries 89
Mean −11.67
Std Dev 0

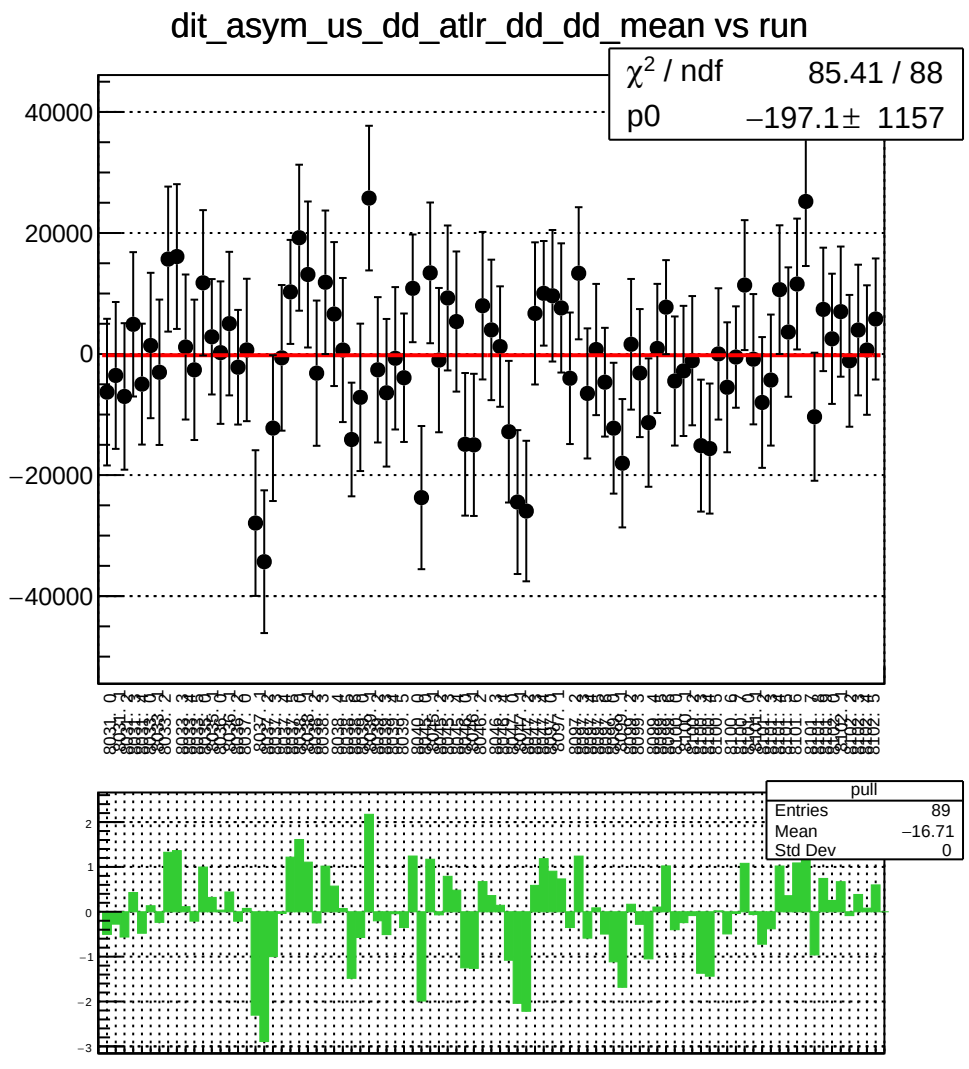

pull1D
Entries 89
Mean −0.01429
Std Dev 0.9865

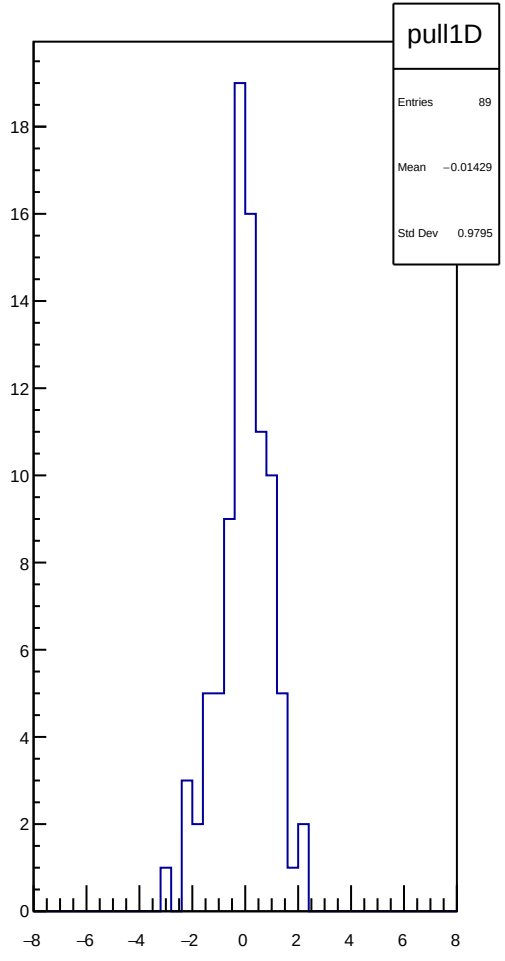

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 4896 / 88
p0 1079 ± 0.8172
1180
1160
1140
1120
1100
1080
1060
1040
1020
1000
980

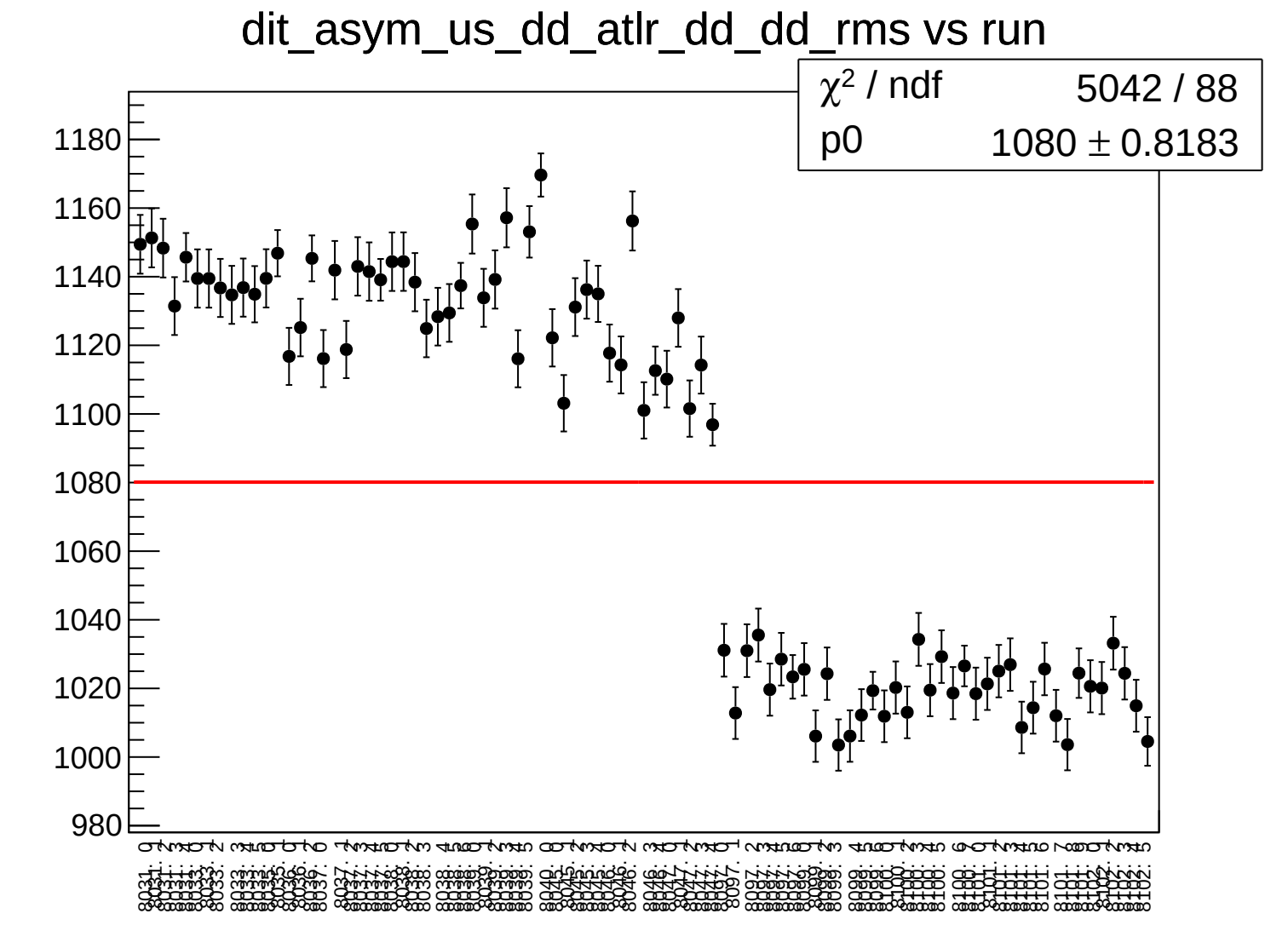

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 103 / 88
p0 −271.1± 478.5
pull
Entries 89
Mean 72.16
Std Dev 12.95

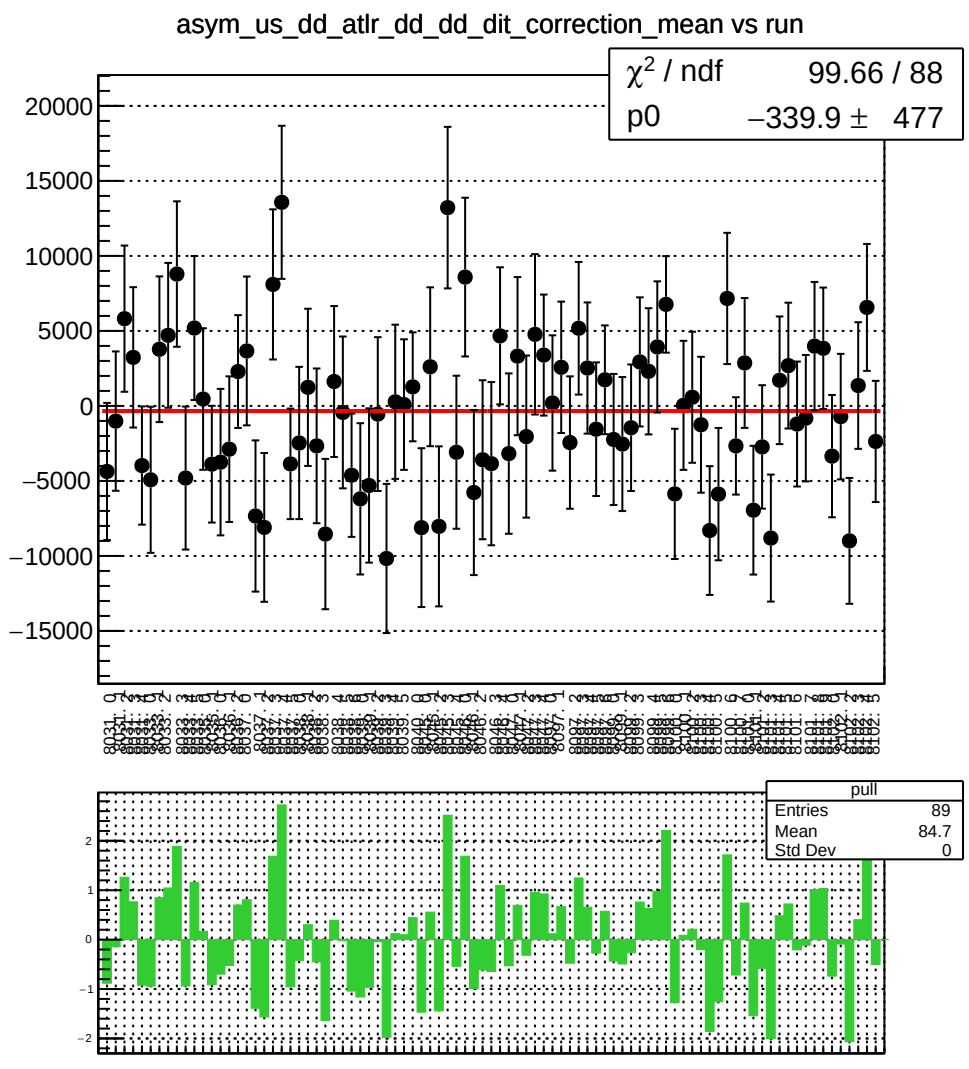

pull1D
Entries 89
Mean −0.01266
Std Dev 1.076

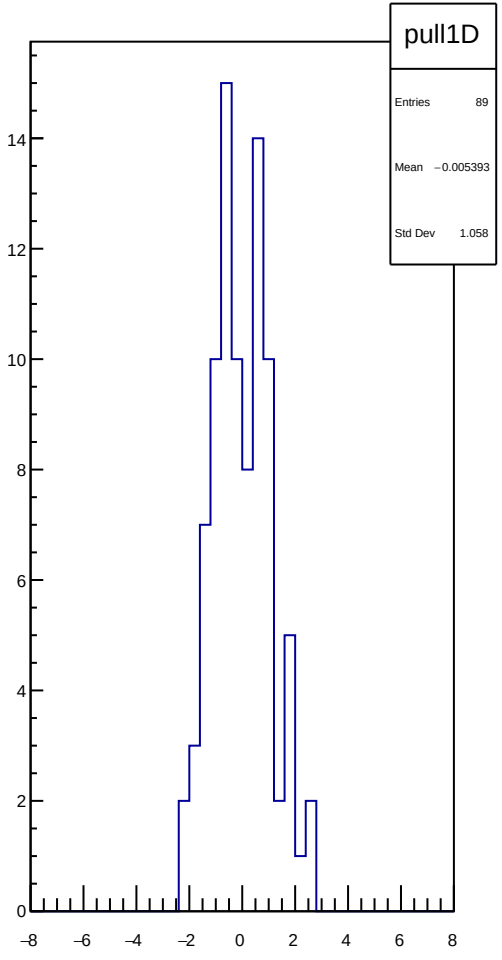

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.083e+04 / 88
p0 444.6 ± 0.3384
550
500
450
400
350

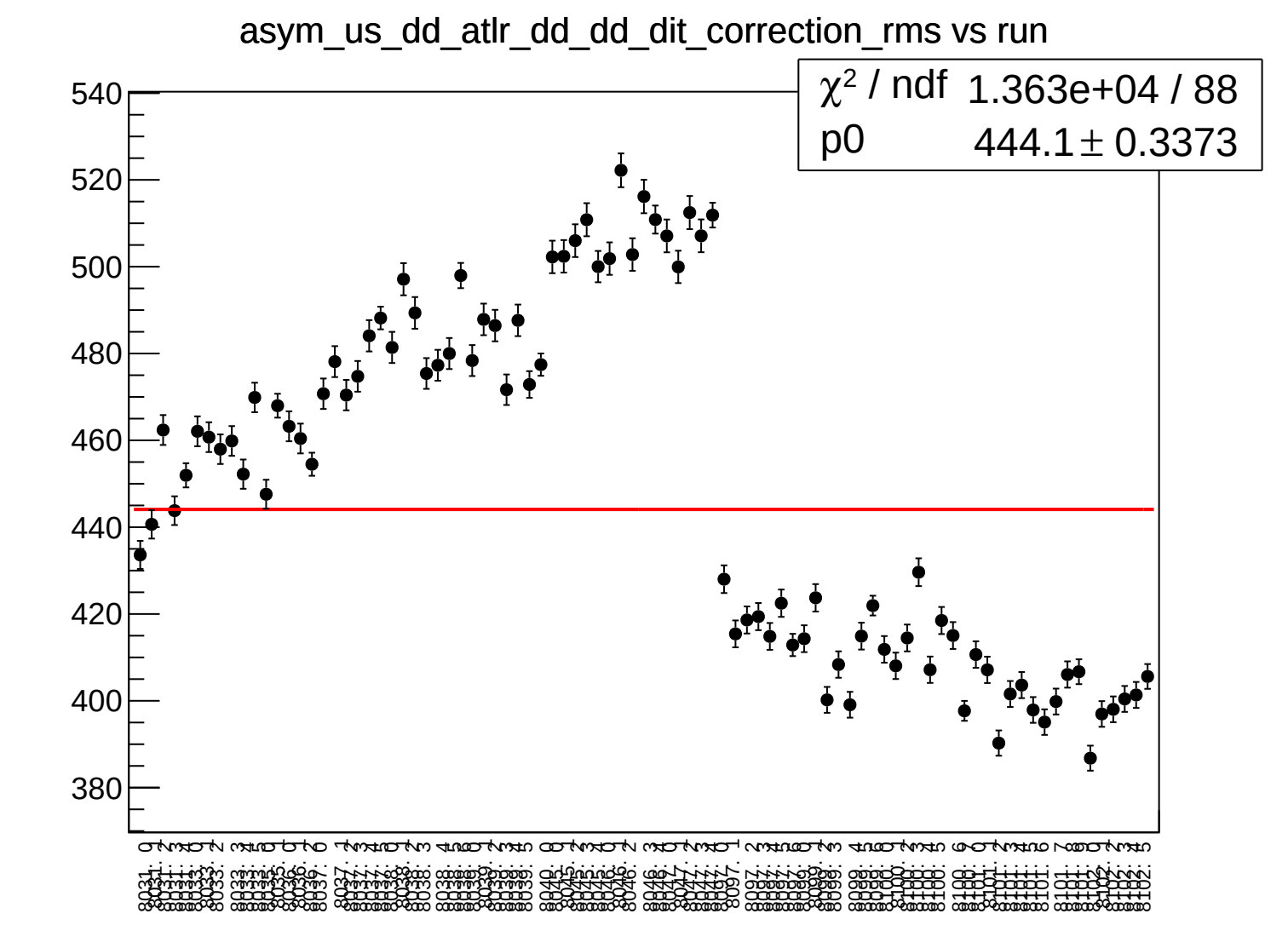

dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 85.41 / 88
p0 −197.1± 1157
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −16.71
Std Dev 0
2
1
0
−1
−2
−3

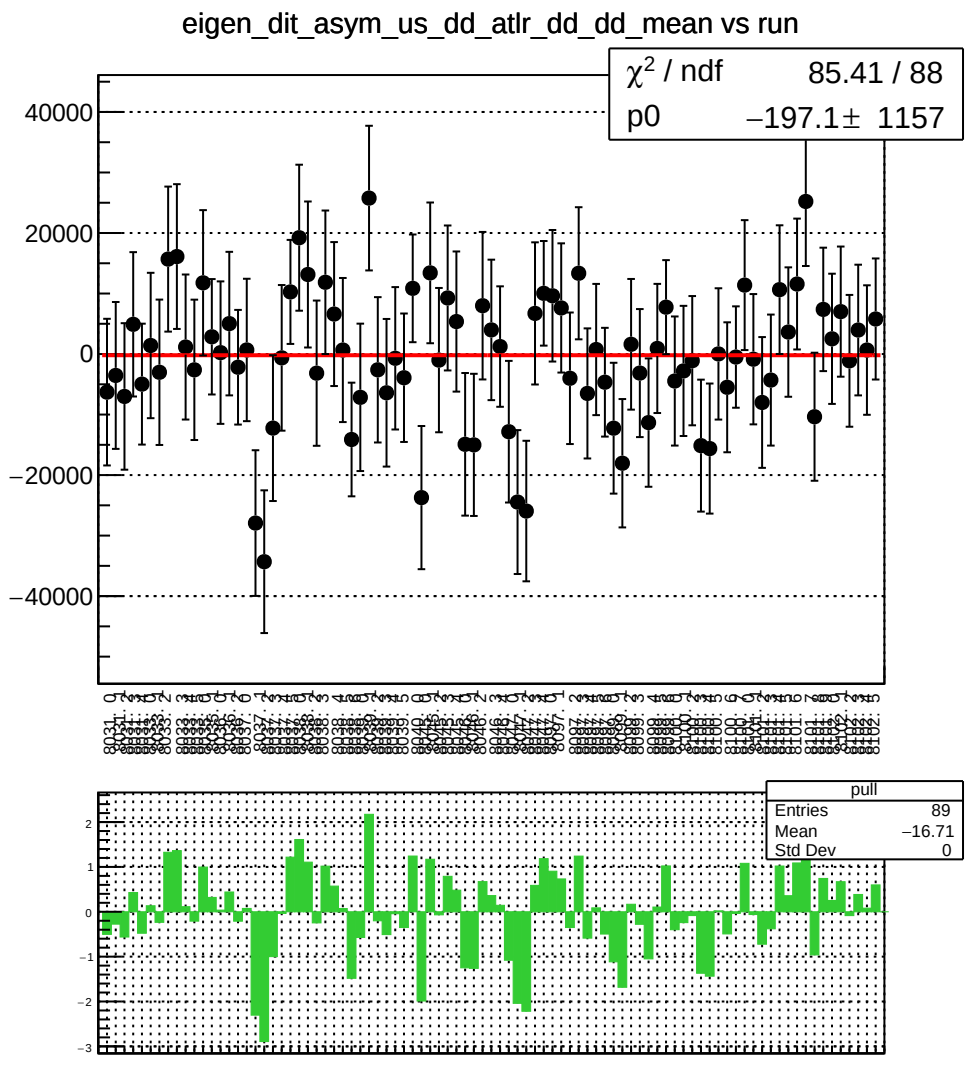

pull1D
Entries 89
Mean −0.01429
Std Dev 0.9795
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

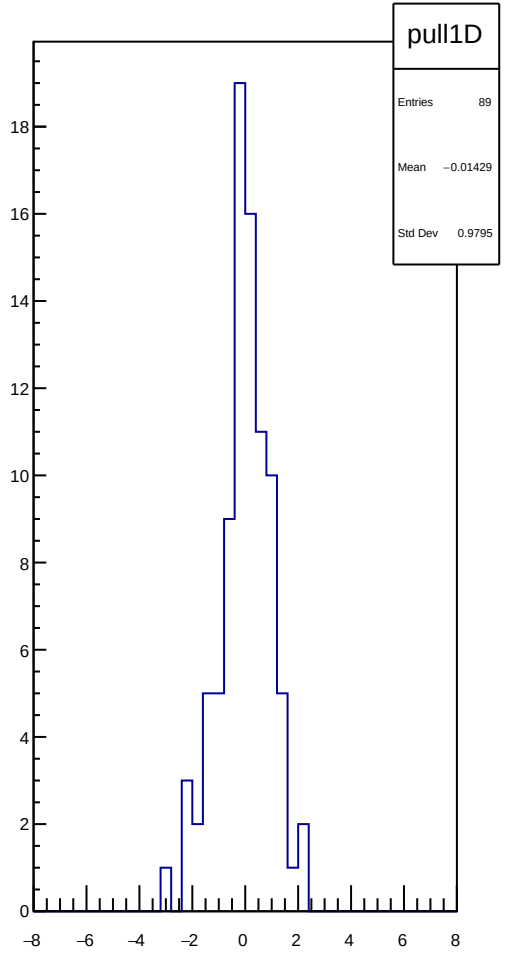

dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 5042 / 88
p0 1080 ± 0.8183
1180
1160
1140
1120
1100
1080
1060
1040
1020
1000
980

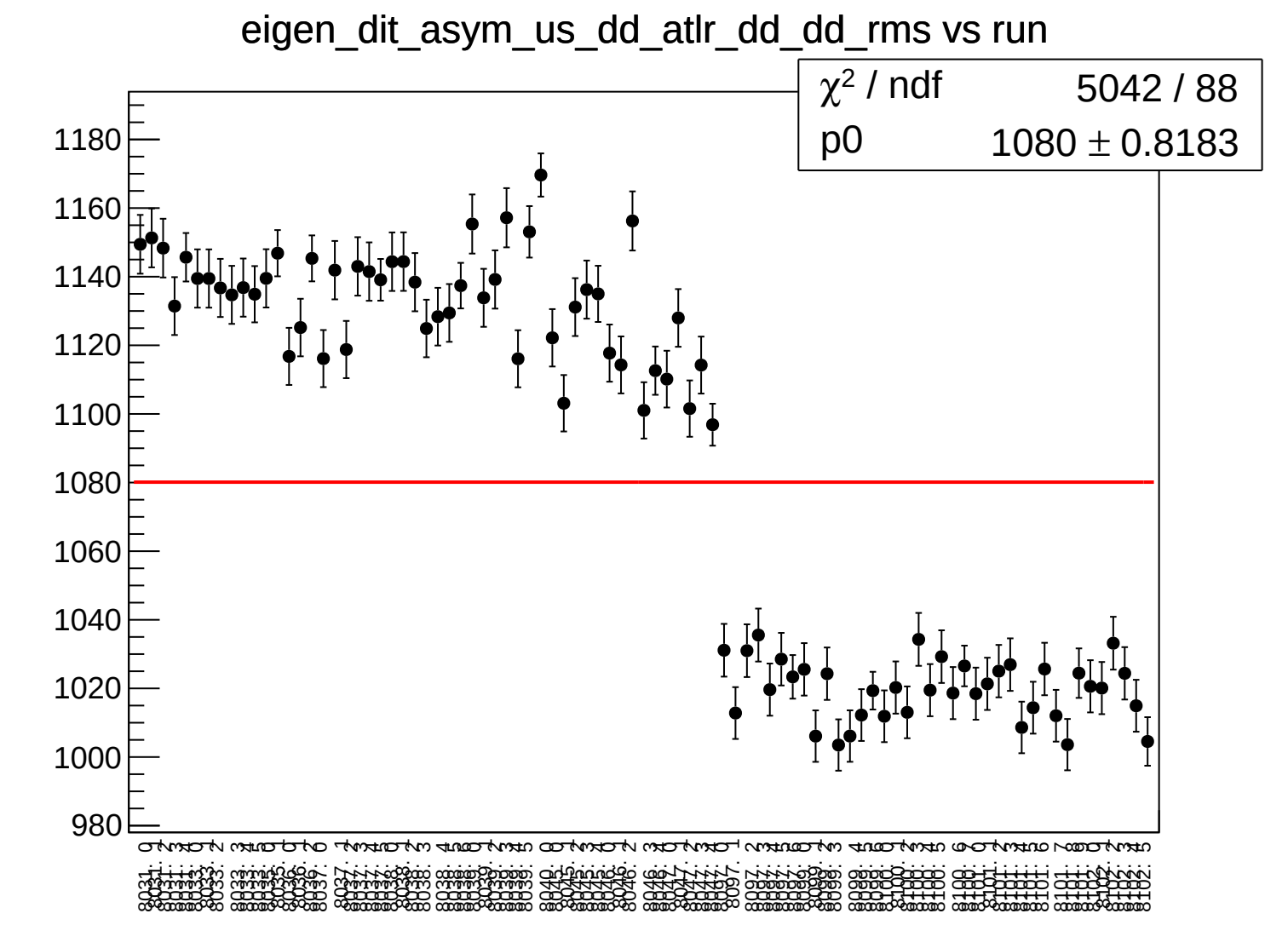

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 99.66 / 88
p0 −339.9 ± 477
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 84.7
Std Dev 0
2
1
0
−1
−2

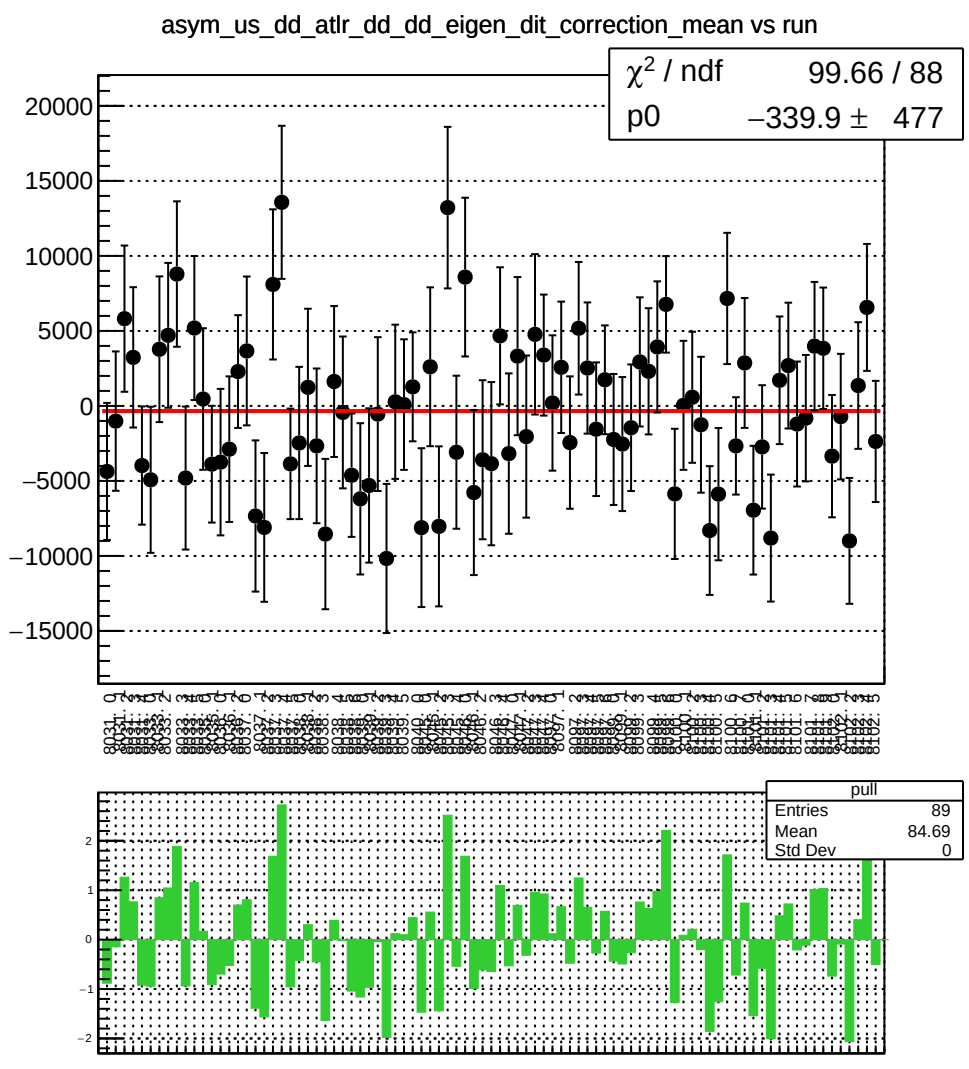

pull1D
Entries 89
Mean −0.005393
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

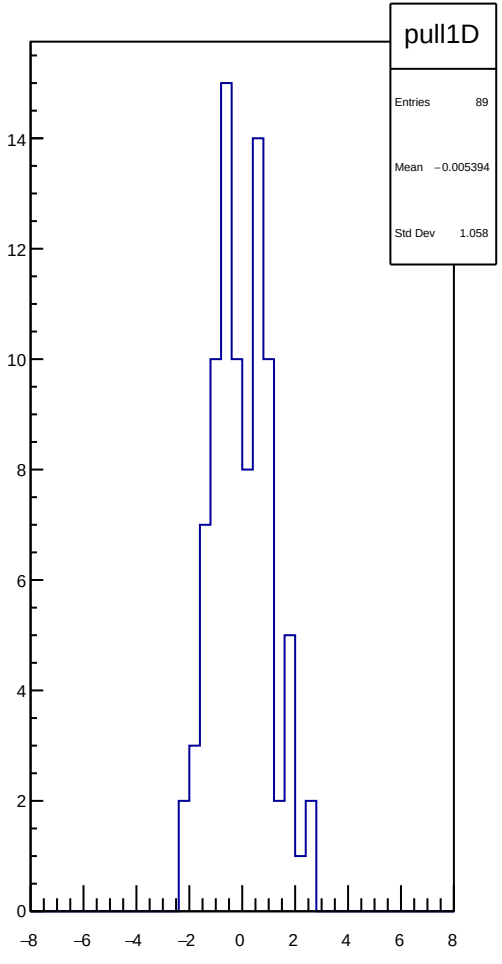

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 1.363e+04 / 88
p0 444.1 ± 0.3373
540
520
500
480
460
440
420
400
380

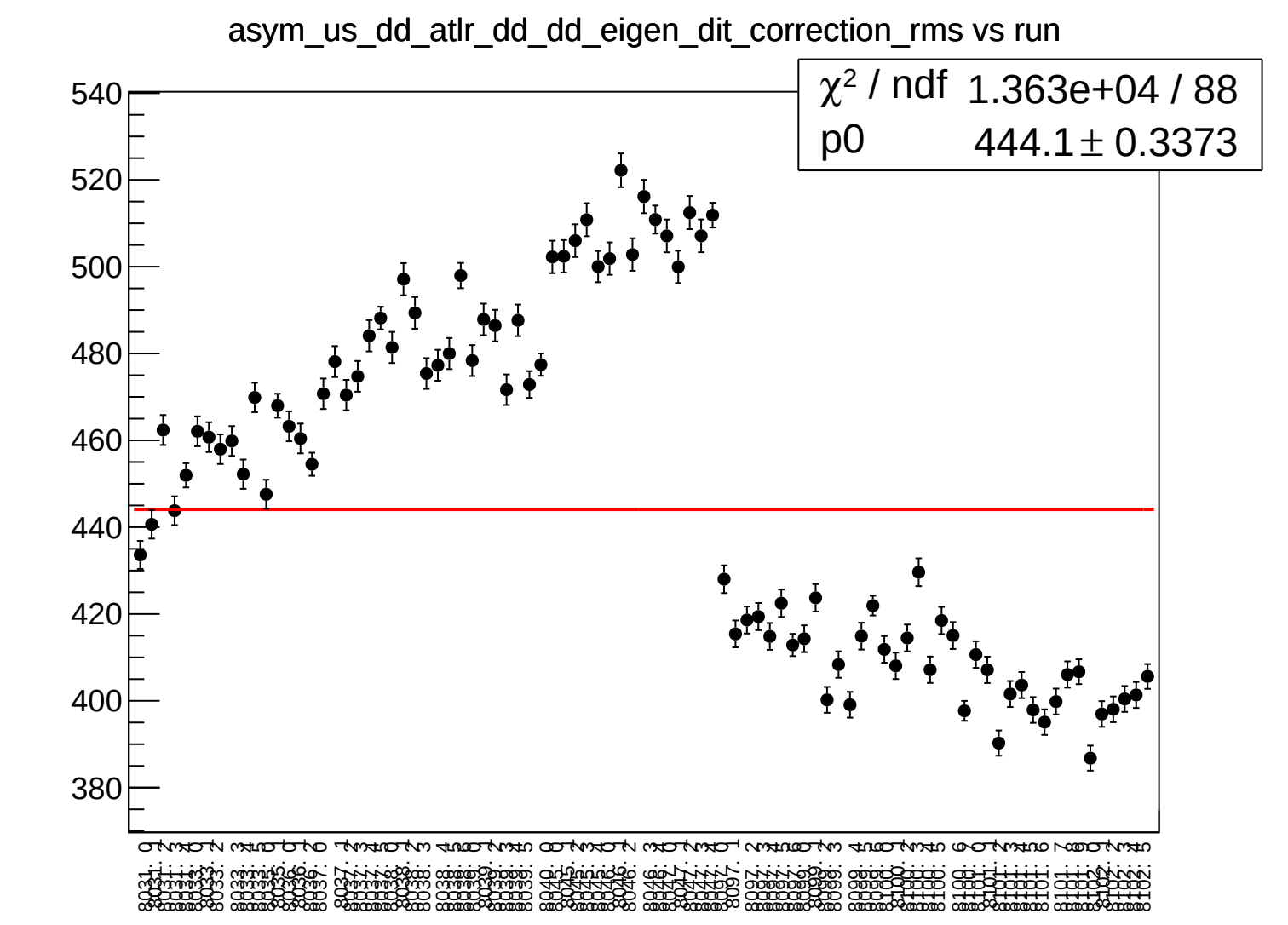

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 85.41 / 88
p0 −197.1± 1157
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −16.71
Std Dev 0
2
1
0
−1
−2
−3

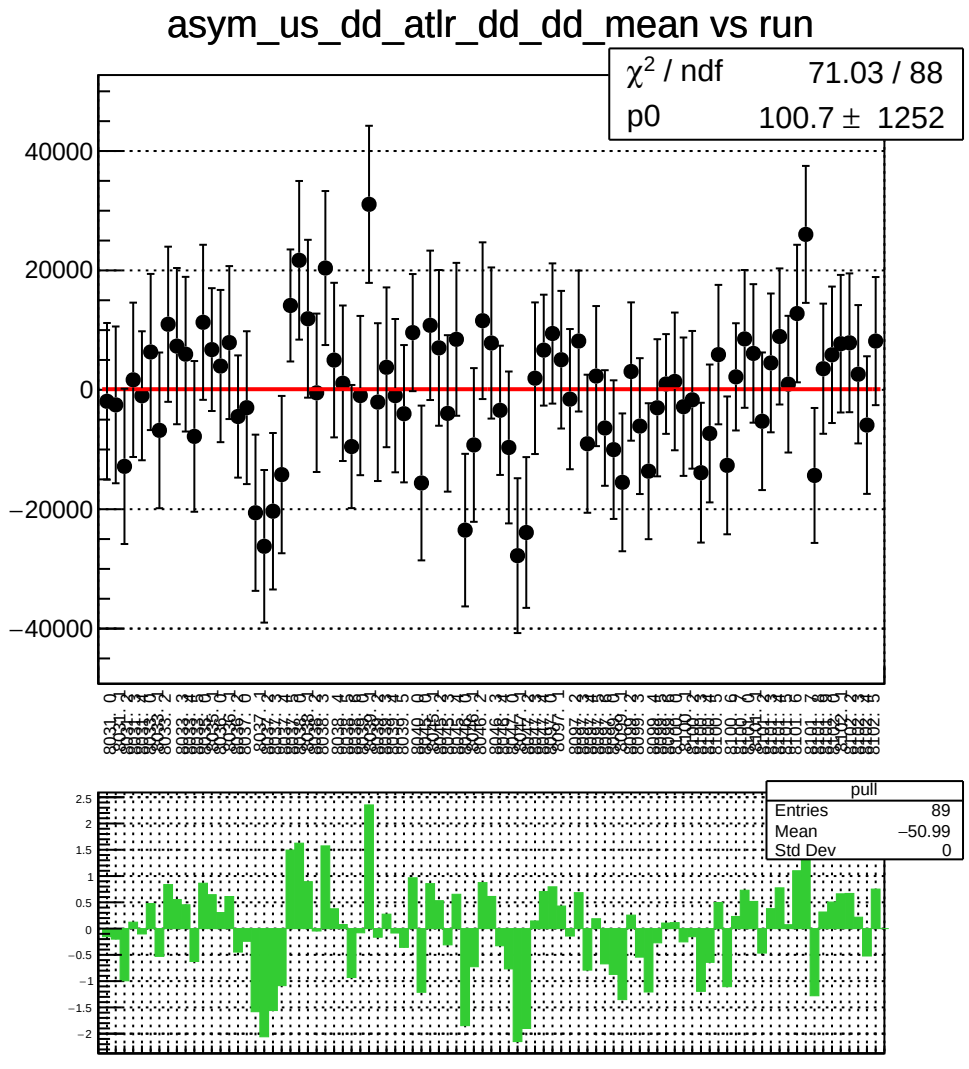

pull1D
Entries 89
Mean −0.01429
Std Dev 0.9795
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

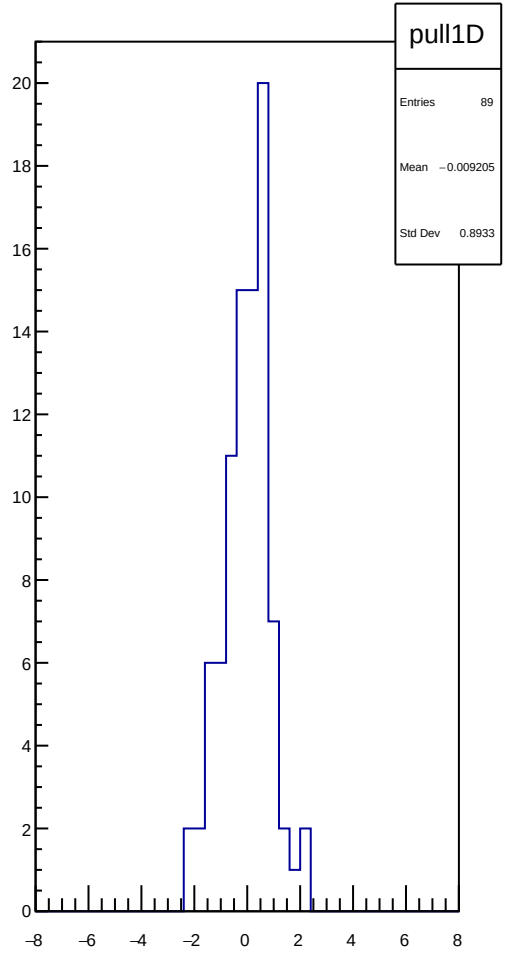

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 5042 / 88
p0 1080 ± 0.8183
1180
1160
1140
1120
1100
1080
1060
1040
1020
1000
980

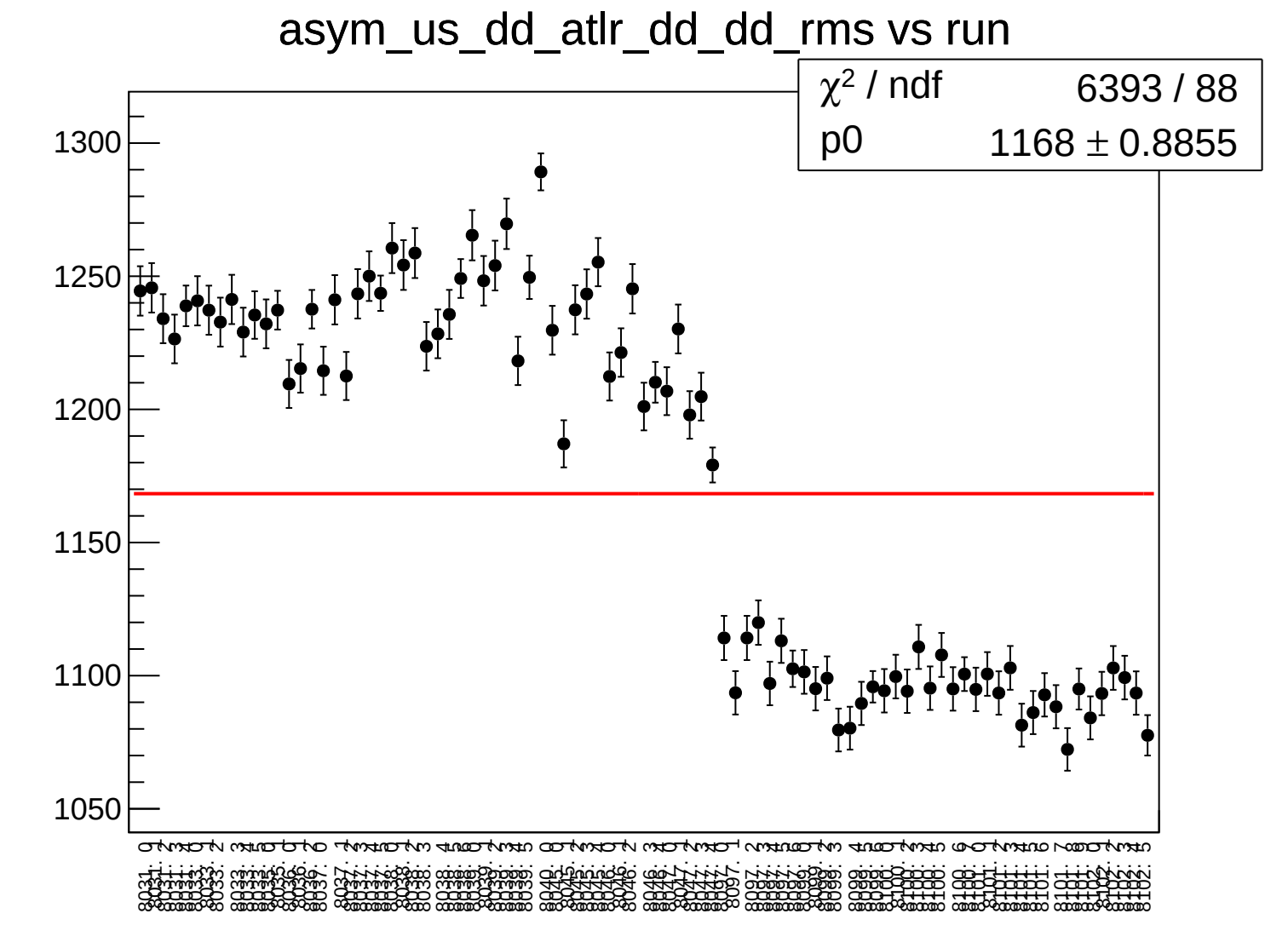

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 99.66 / 88
p0 −339.9 ± 477
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 84.69
Std Dev 0
2
1
0
−1
−2

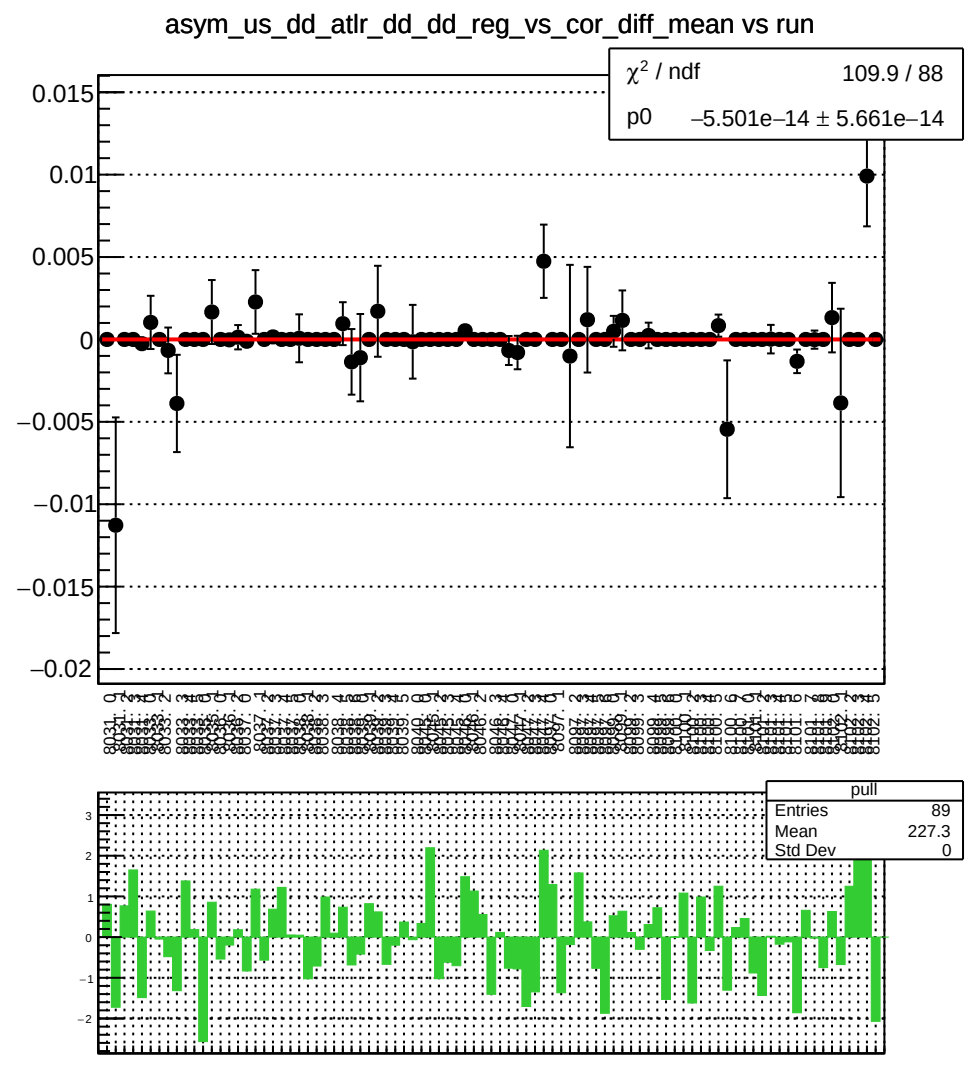

pull1D
Entries 89
Mean −0.005394
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

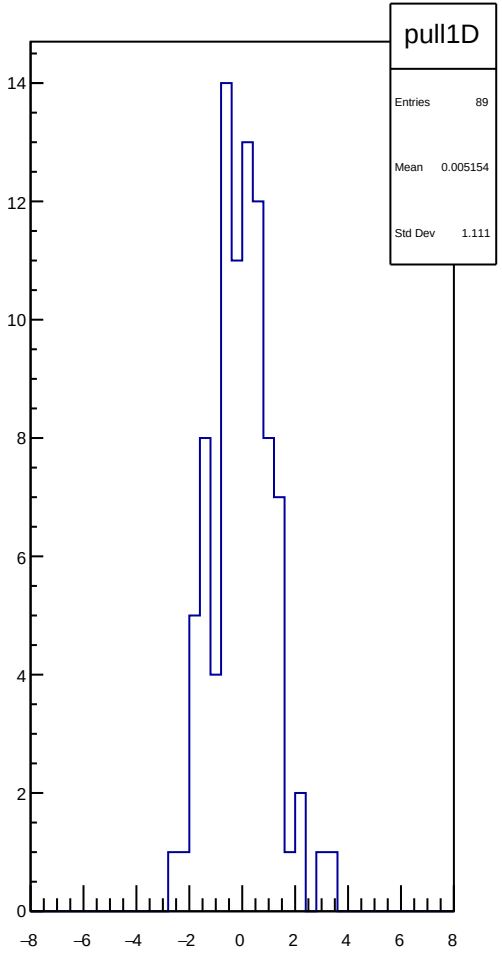

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.363e+04 / 88
p0 444.1 ± 0.3373
540
520
500
480
460
440
420
400
380

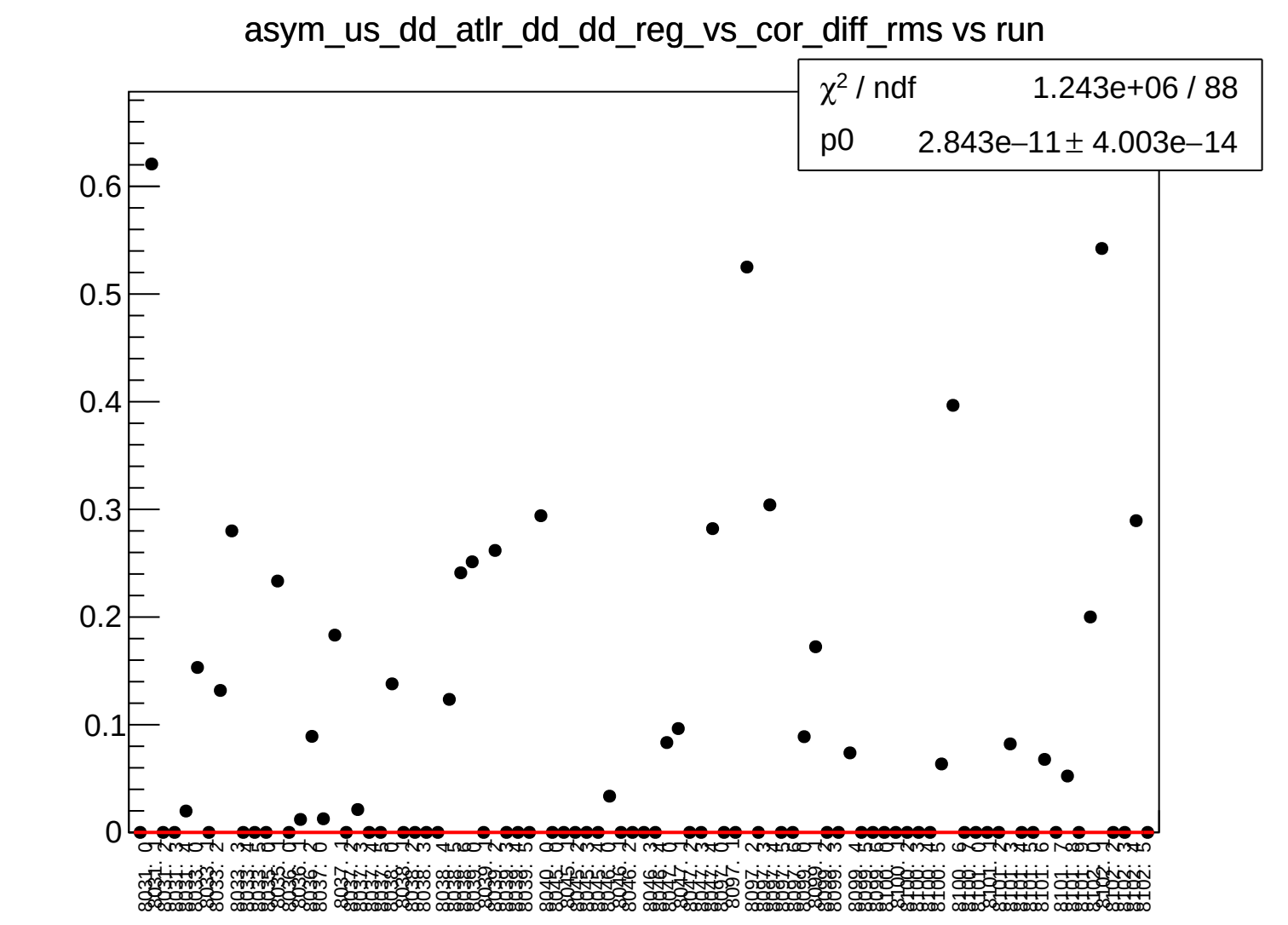

asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 71.03 / 88
p0 100.7 ± 1252
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −50.99
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

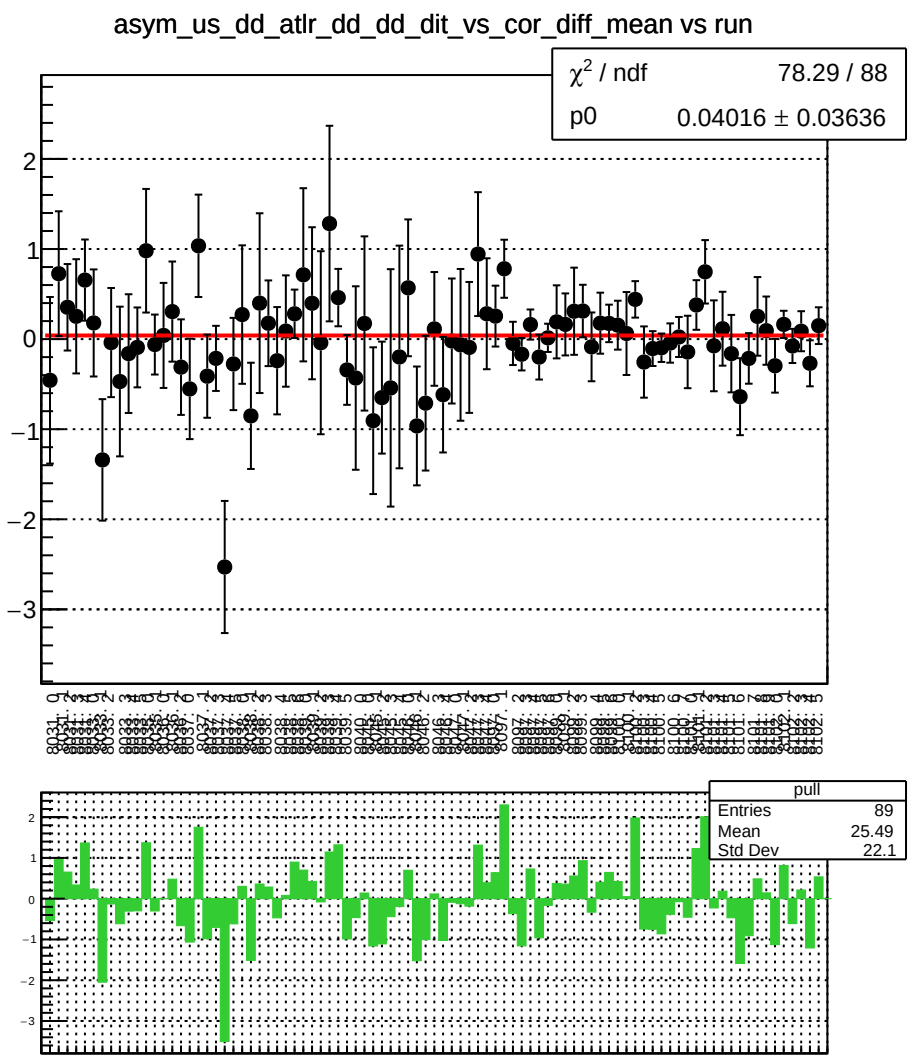

pull1D
Entries 89
Mean −0.009205
Std Dev 0.8933
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

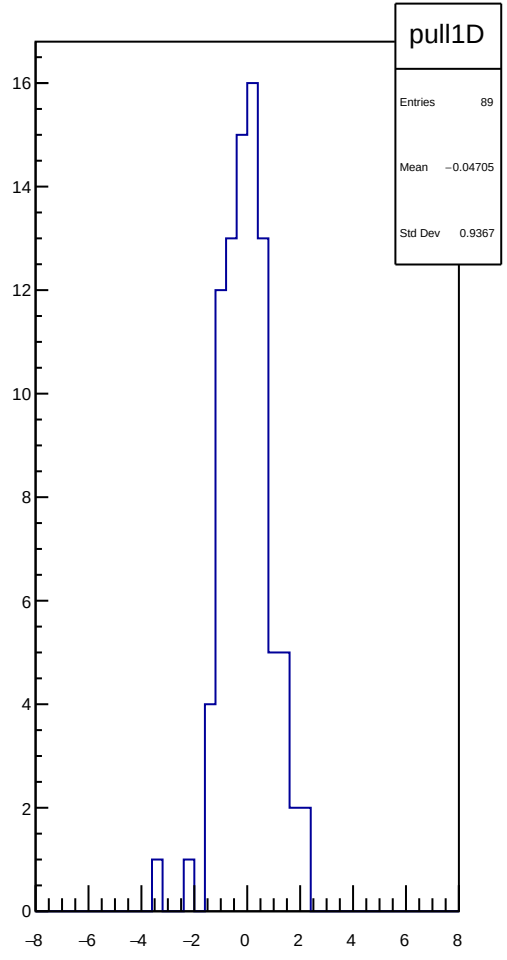

asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 6393 / 88
p0 1168 ± 0.8855
1300
1250
1200
1150
1100
1050

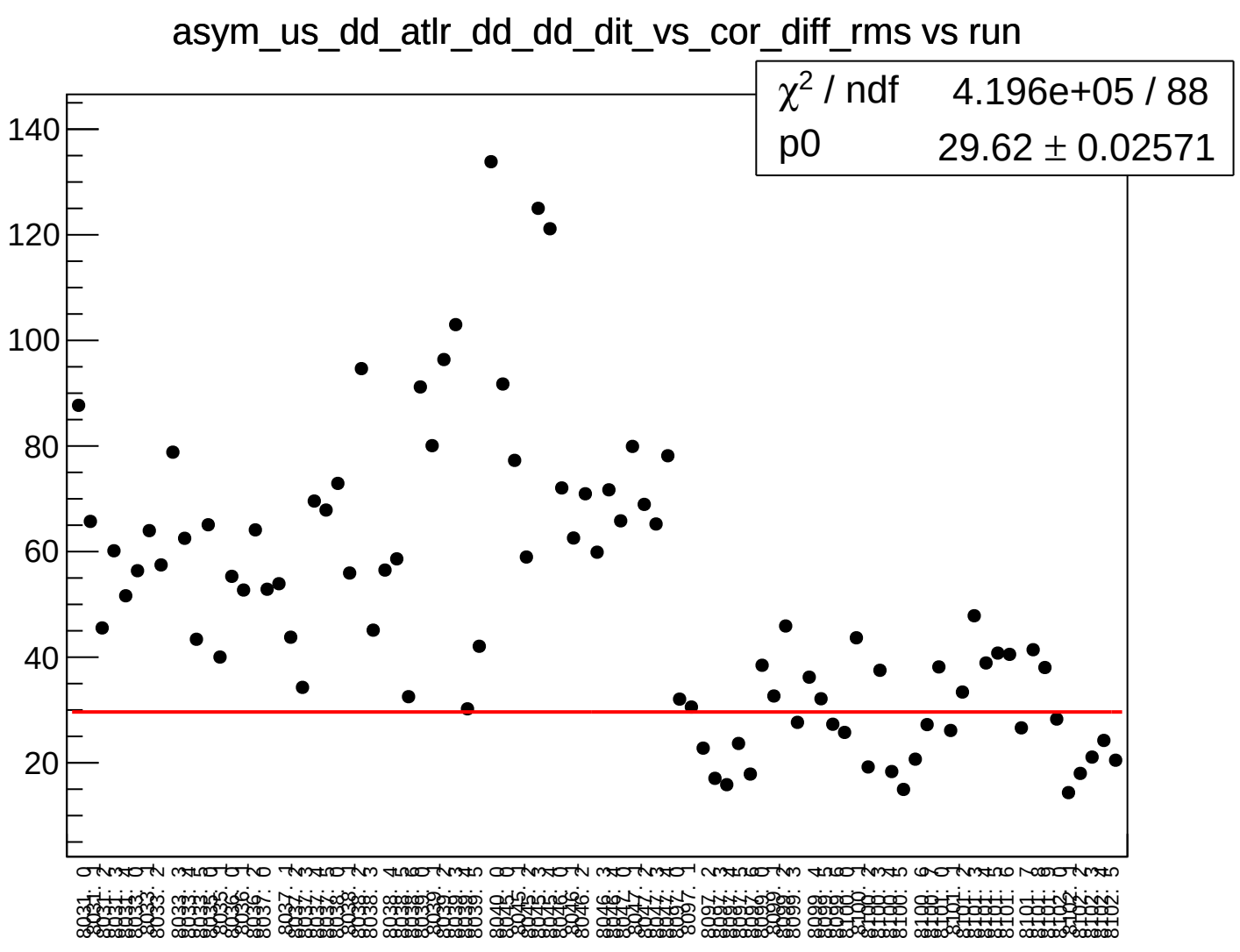

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 109.9 / 88
p0 −5.501e−14 ± 5.661e−14
pull
Entries 89
Mean 227.3
Std Dev 0

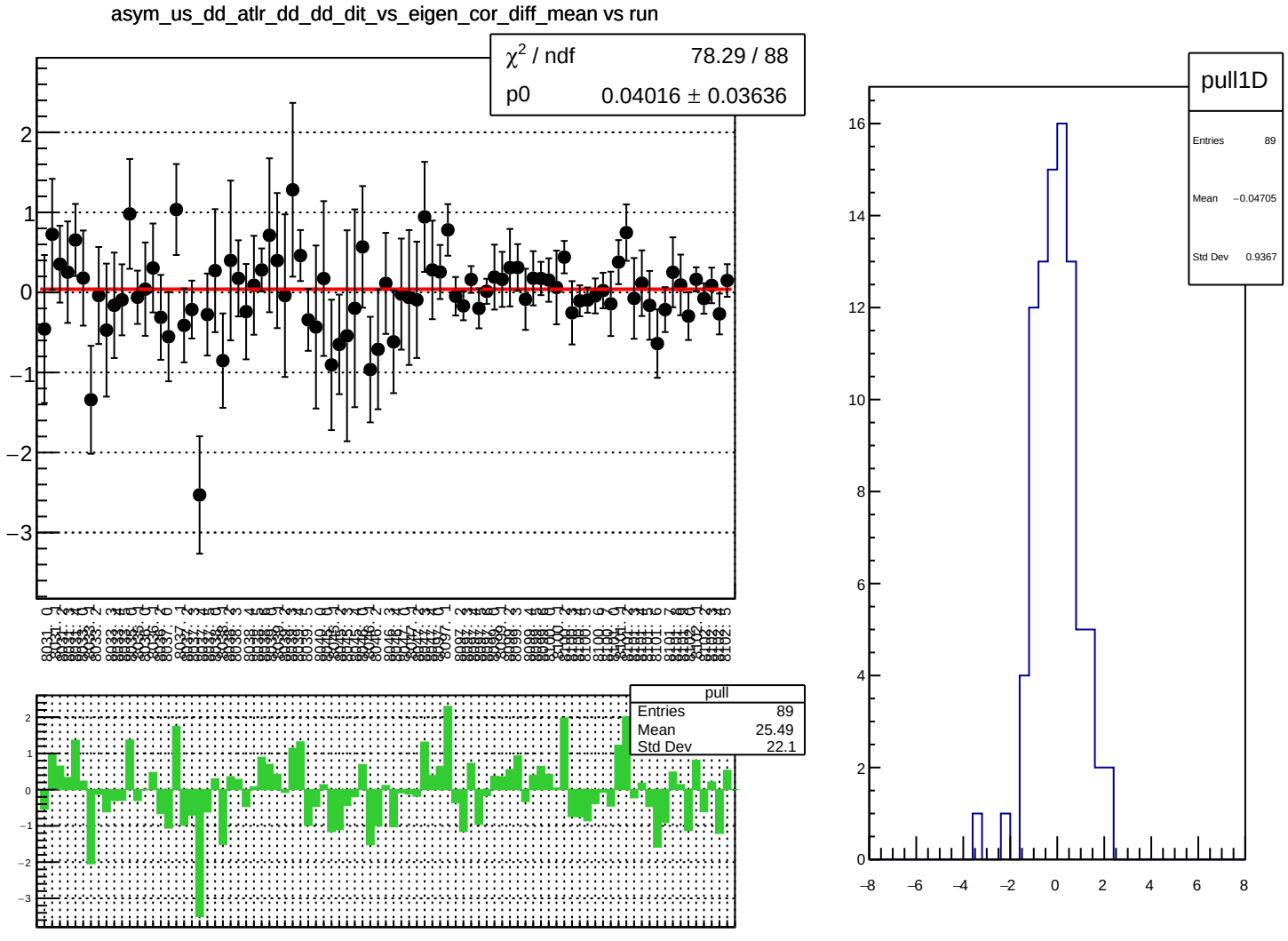

pull1D
Entries 89
Mean 0.005154
Std Dev 1.111

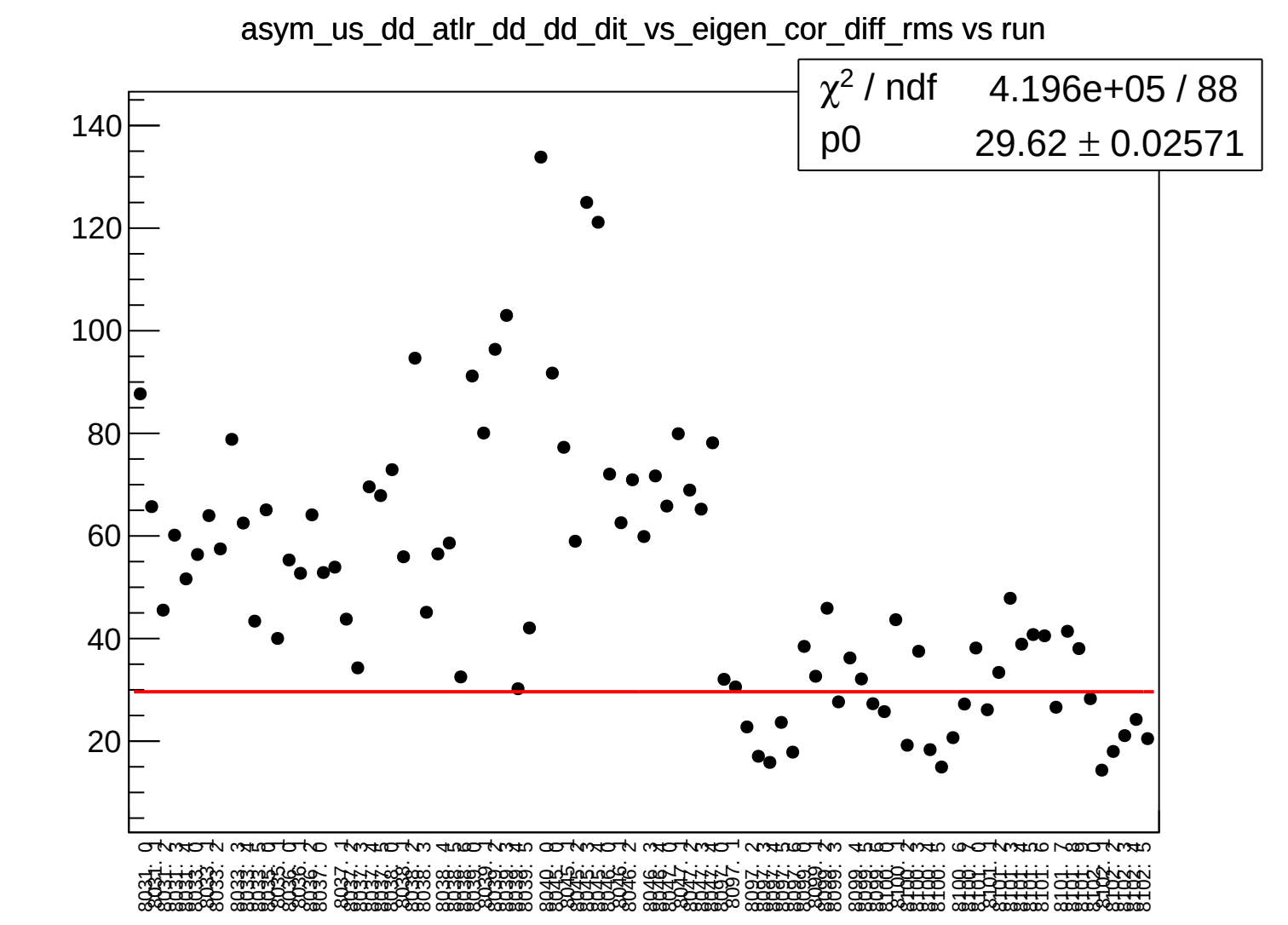

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.243e+06 / 88
p0 2.843e−11 ± 4.003e−14
0.6
0.5
0.4
0.3
0.2
0.1
0

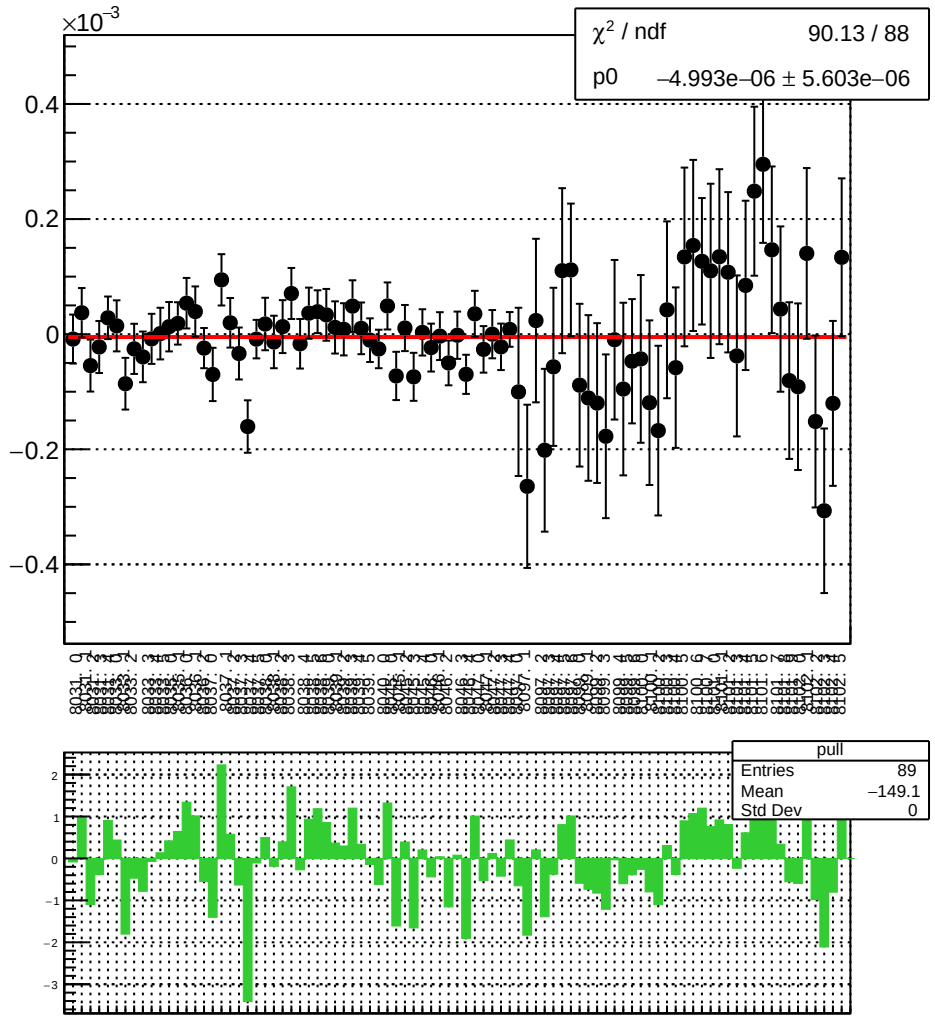

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 78.29 / 88
p0 0.04016 ± 0.03636
pull
Entries 89
Mean 25.49
Std Dev 22.1

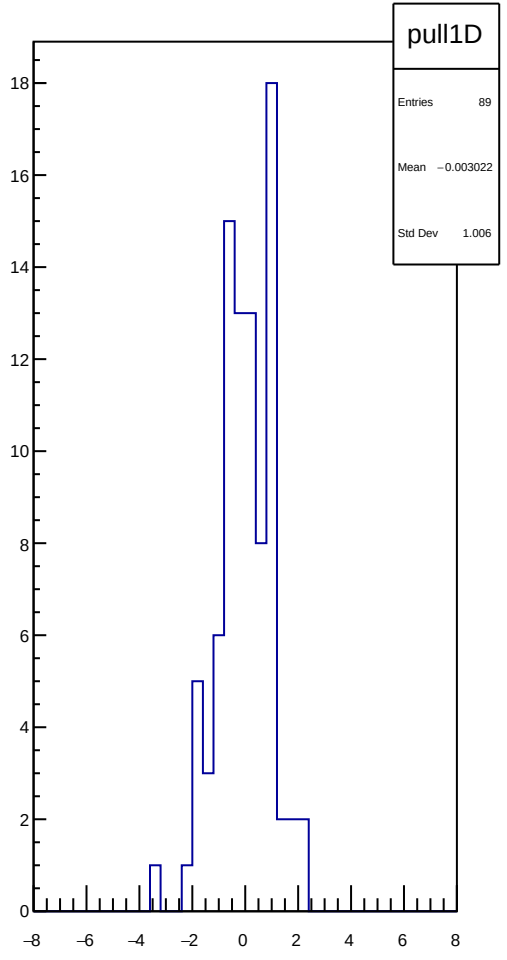

pull1D
Entries 89
Mean −0.04705
Std Dev 0.9367

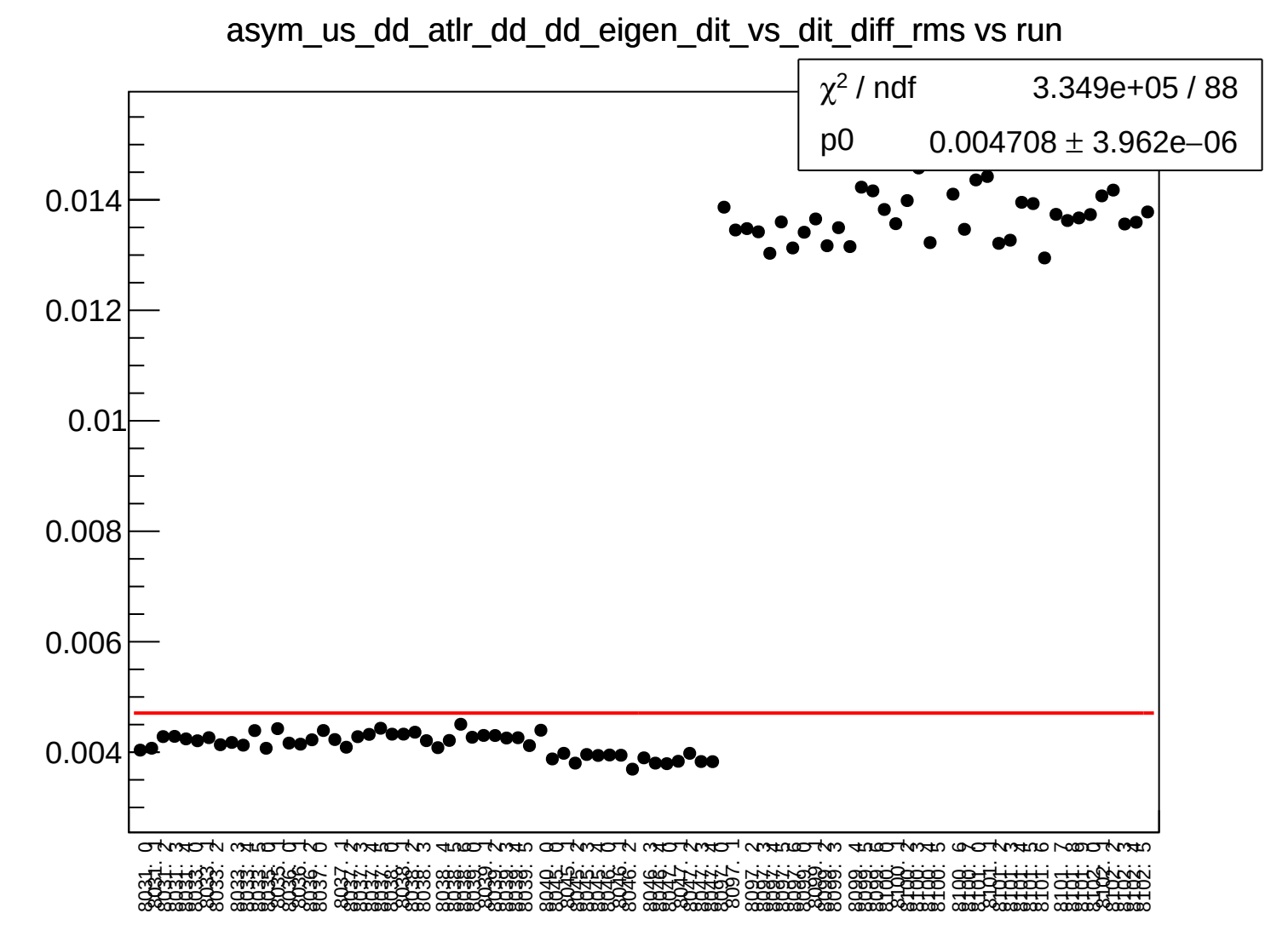

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.196e+05 / 88
p0 29.62 ± 0.02571
140
120
100
80
60
40
20

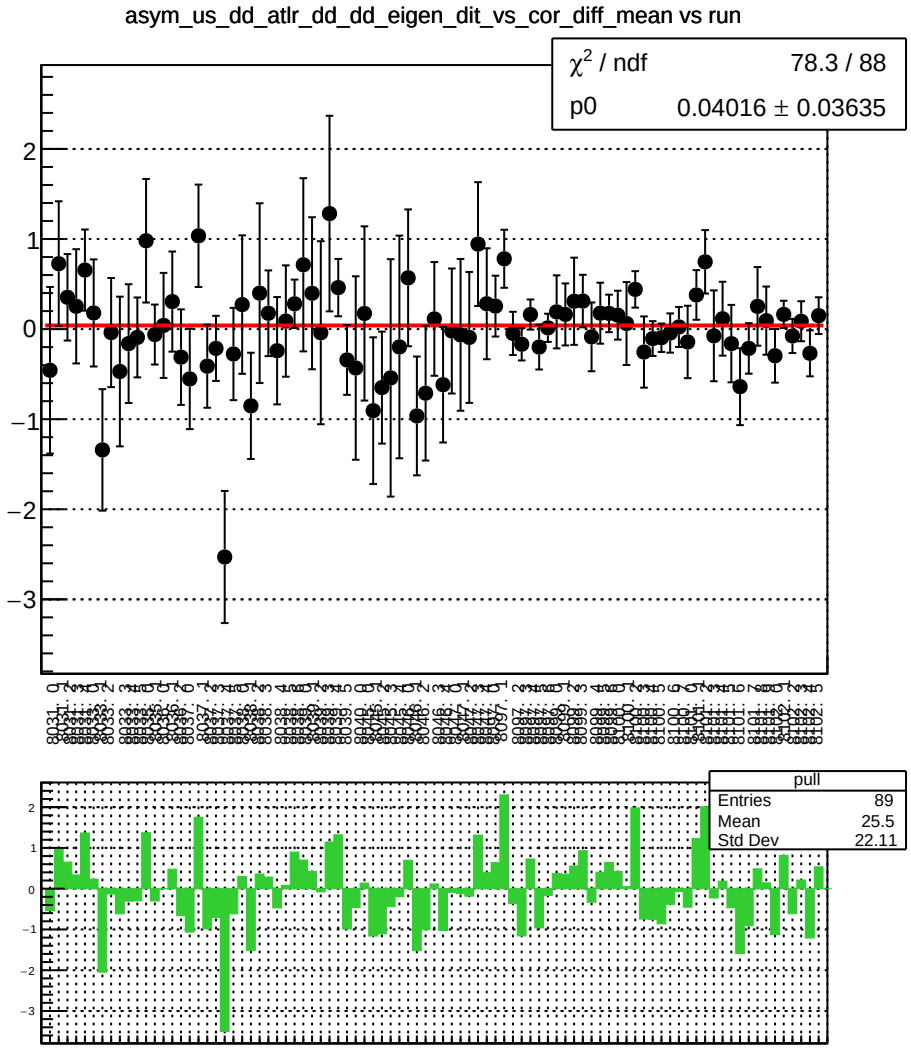

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.29 / 88
p0 0.04016 ± 0.03636
pull
Entries 89
Mean 25.49
Std Dev 22.1
pull1D
Entries 89
Mean −0.04705
Std Dev 0.9367

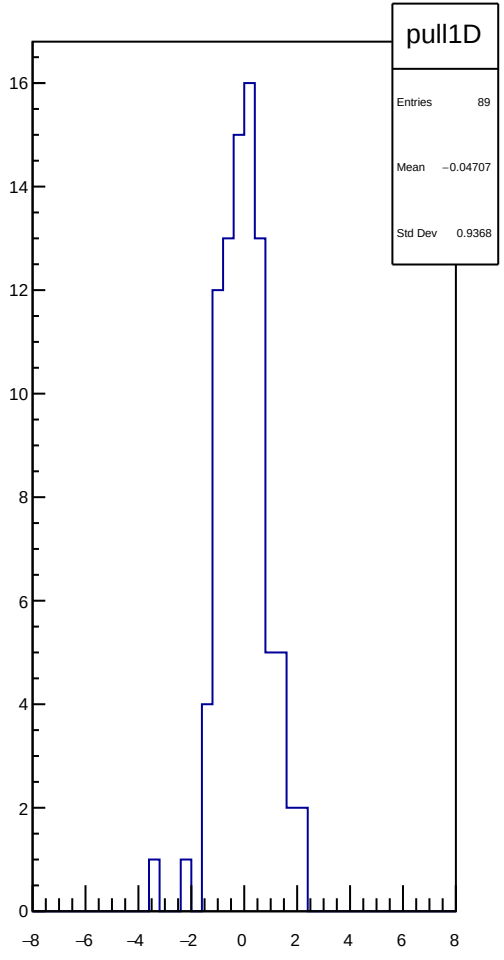

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.196e+05 / 88
p0 29.62 ± 0.02571
140
120
100
80
60
40
20

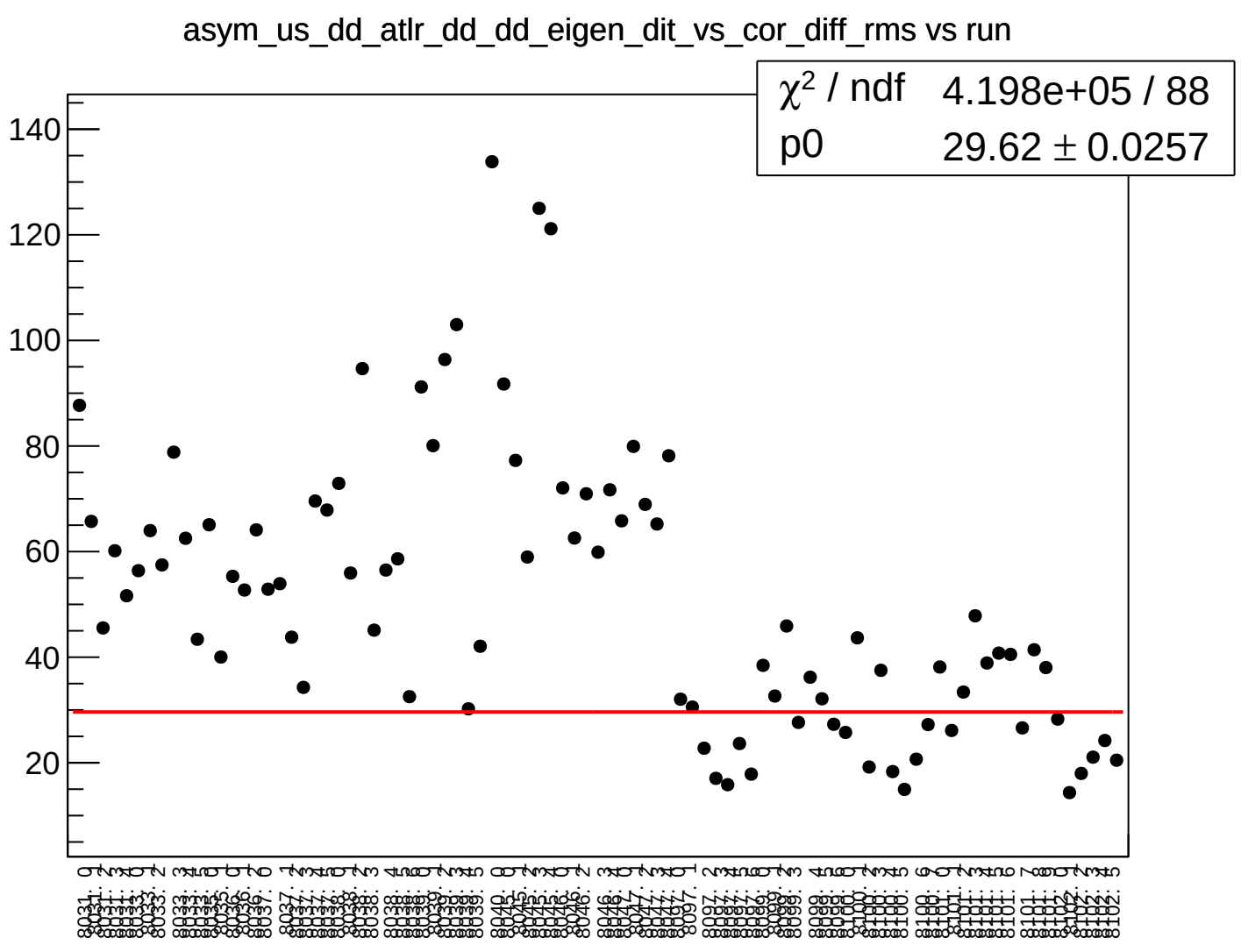

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 90.13 / 88
p0 −4.993e−06 ± 5.603e−06
0.4
0.2
0
−0.2
−0.4
pull
Entries 89
Mean −149.1
Std Dev 0
2
1
0
−1
−2
−3

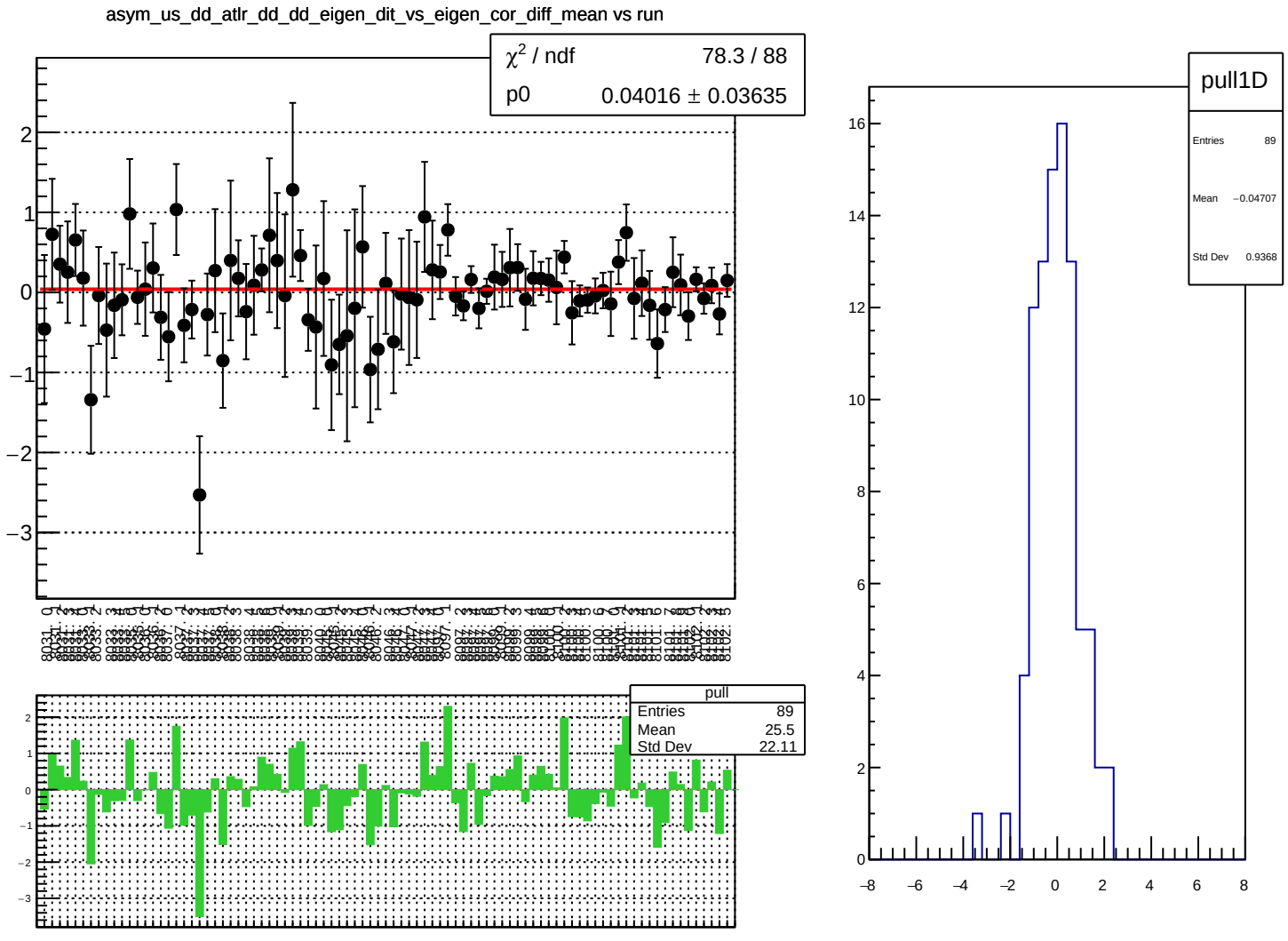

pull1D
Entries 89
Mean −0.003022
Std Dev 1.006
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

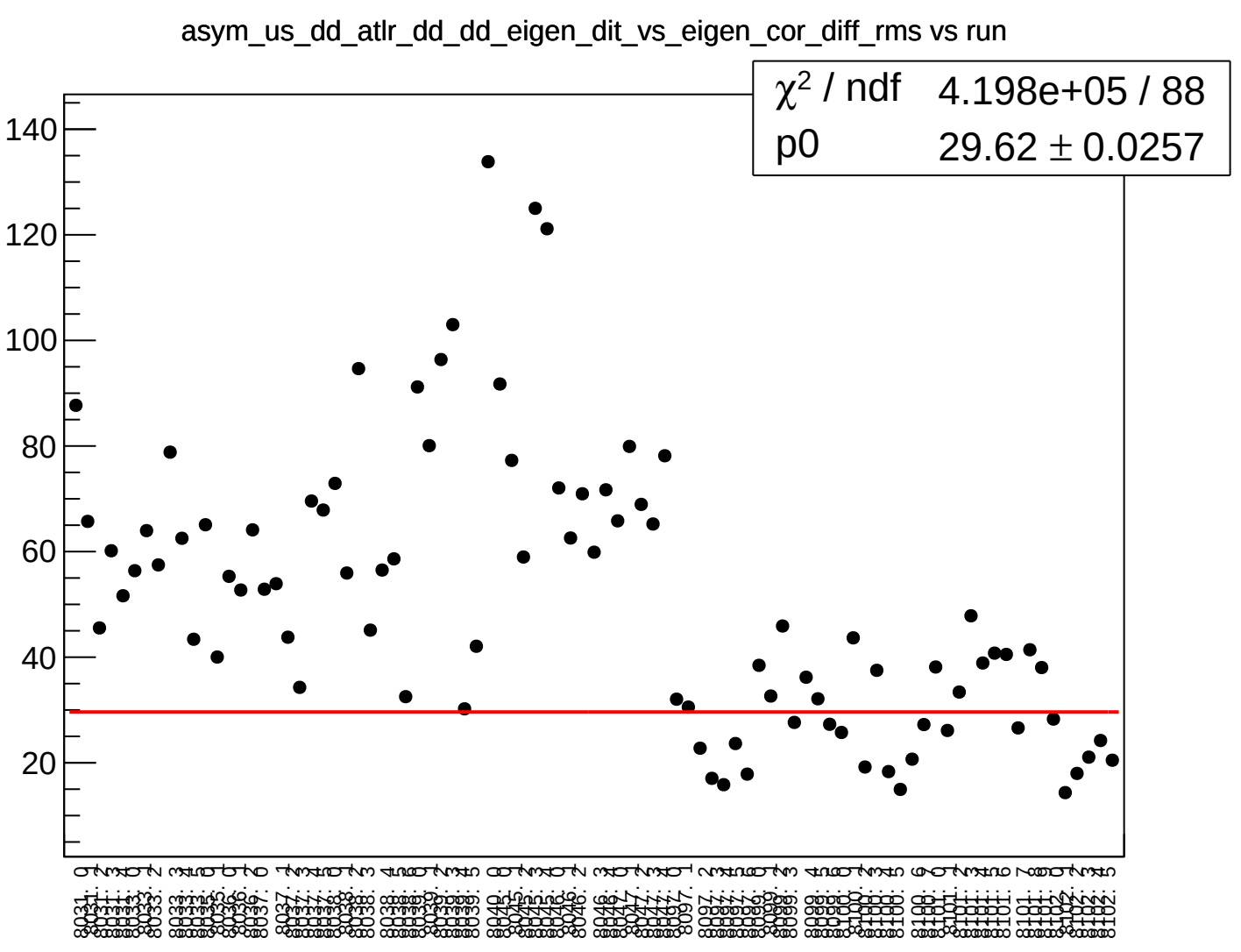

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.349e+05 / 88
p0 0.004708 ± 3.962e−06
0.014
0.012
0.01
0.008
0.006
0.004

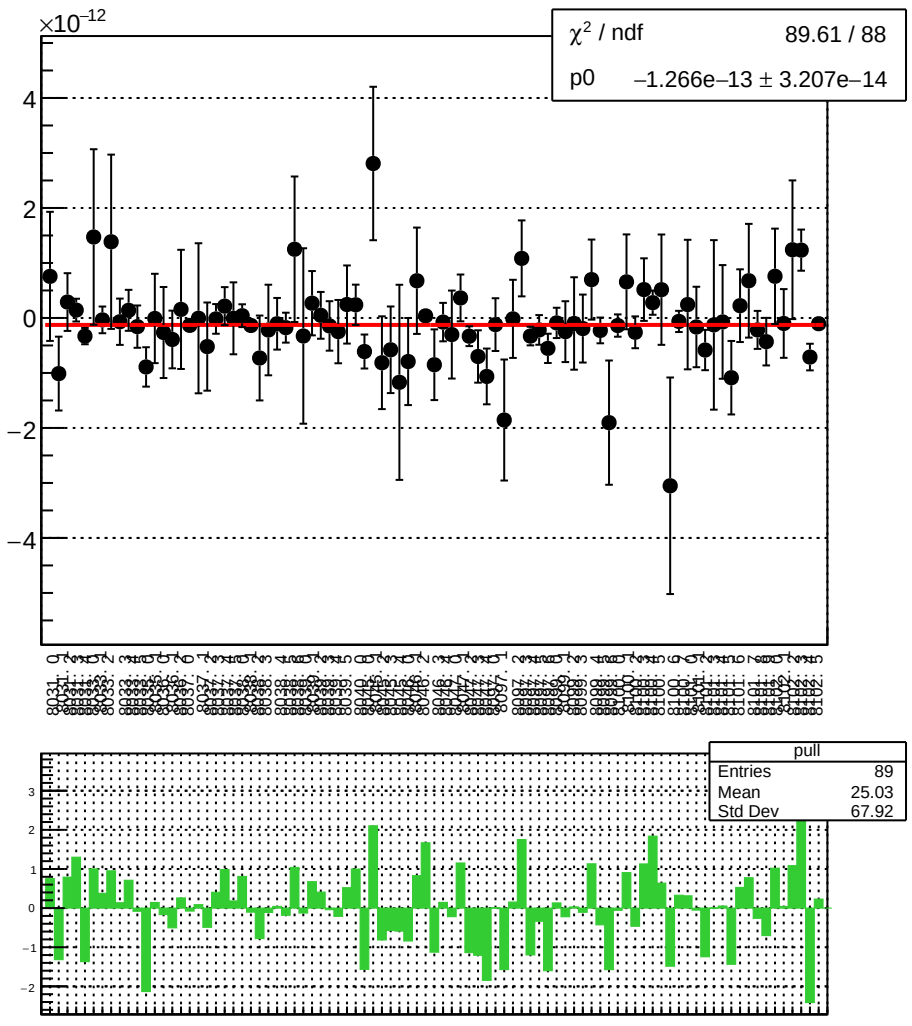

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.3 / 88
p0 0.04016 ± 0.03635
pull
Entries 89
Mean 25.5
Std Dev 22.11

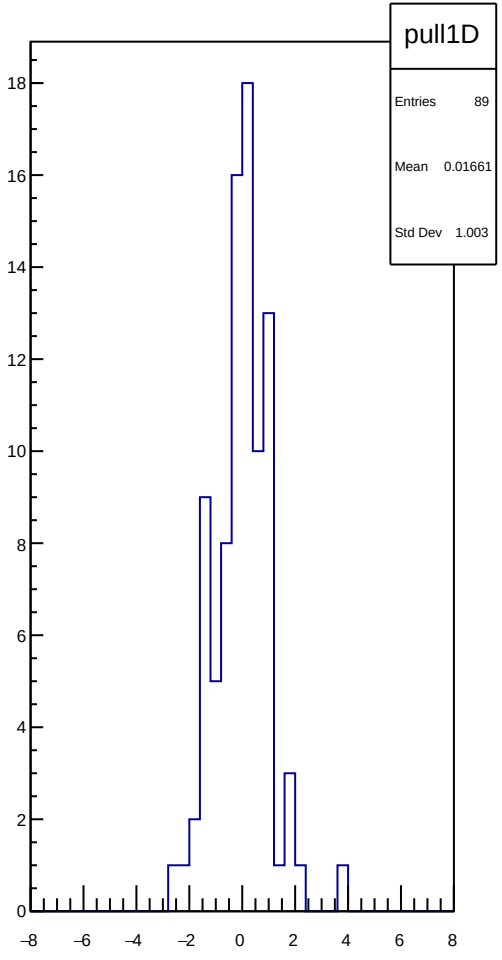

pull1D
Entries 89
Mean −0.04707
Std Dev 0.9368

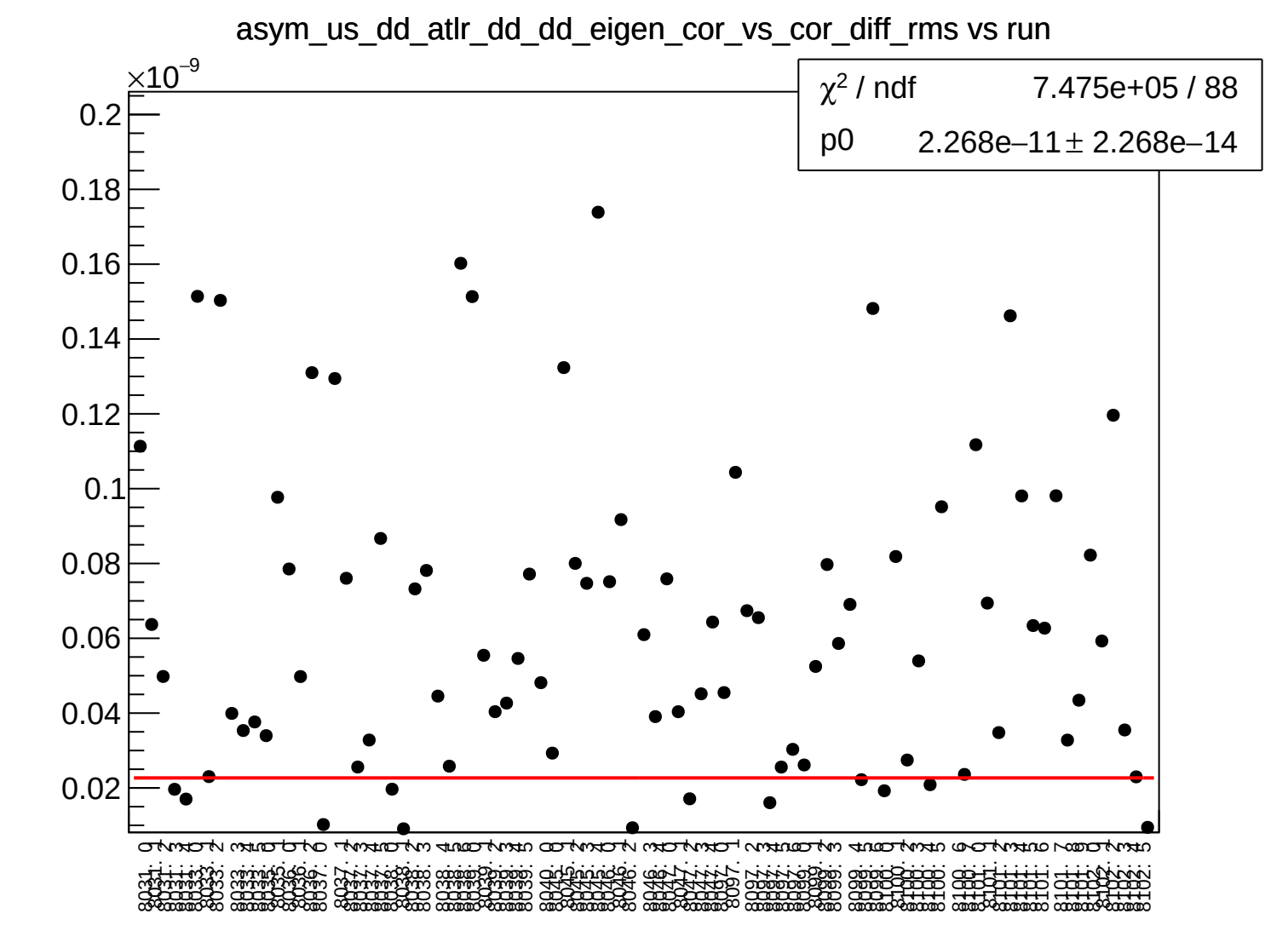

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.198e+05 / 88
p0 29.62 ± 0.0257
140
120
100
80
60
40
20

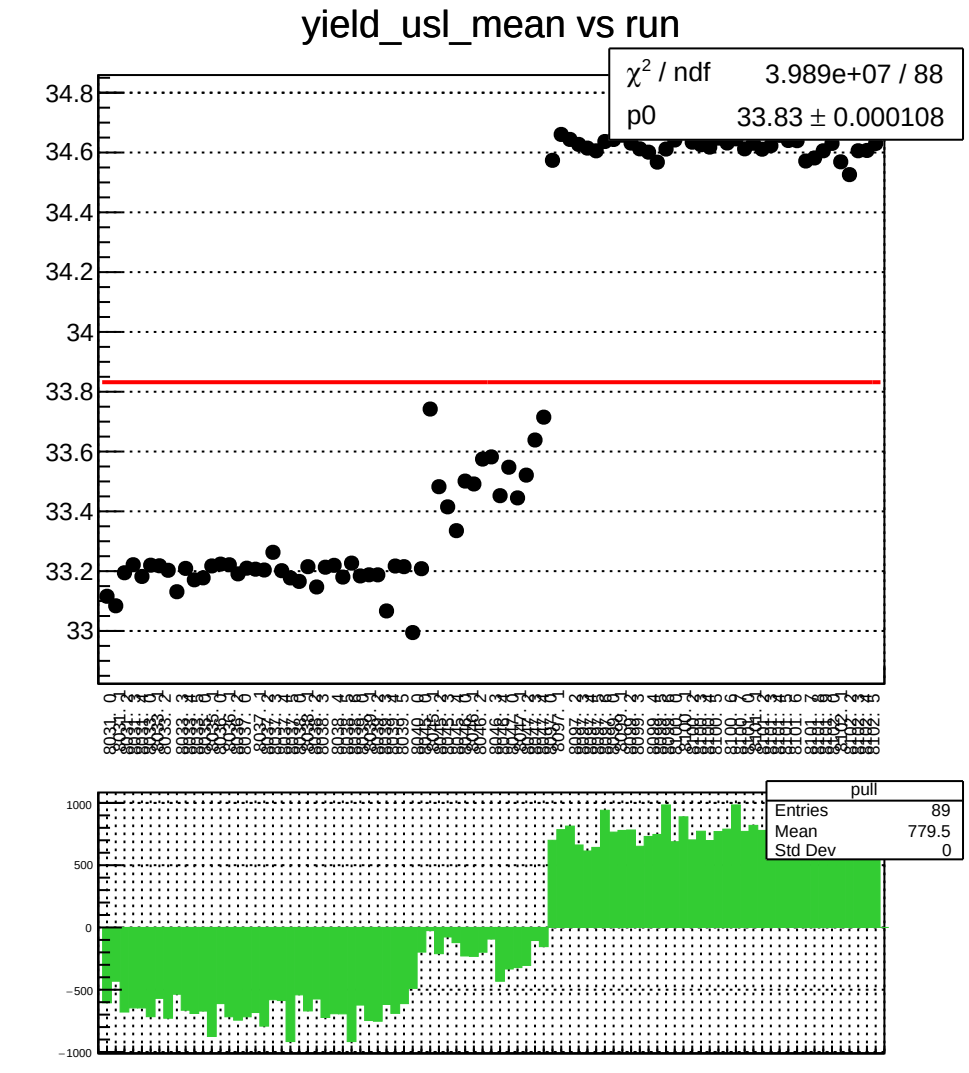

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.3 / 88
p0 0.04016 ± 0.03635
pull
Entries 89
Mean 25.5
Std Dev 22.11
pull1D
Entries 89
Mean −0.04707
Std Dev 0.9368

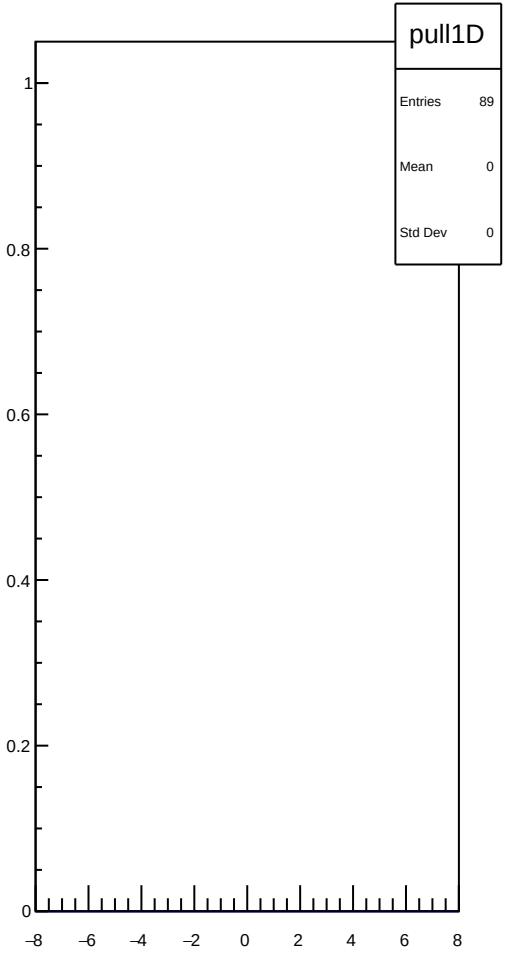

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.198e+05 / 88
p0 29.62 ± 0.0257
140
120
100
80
60
40
20

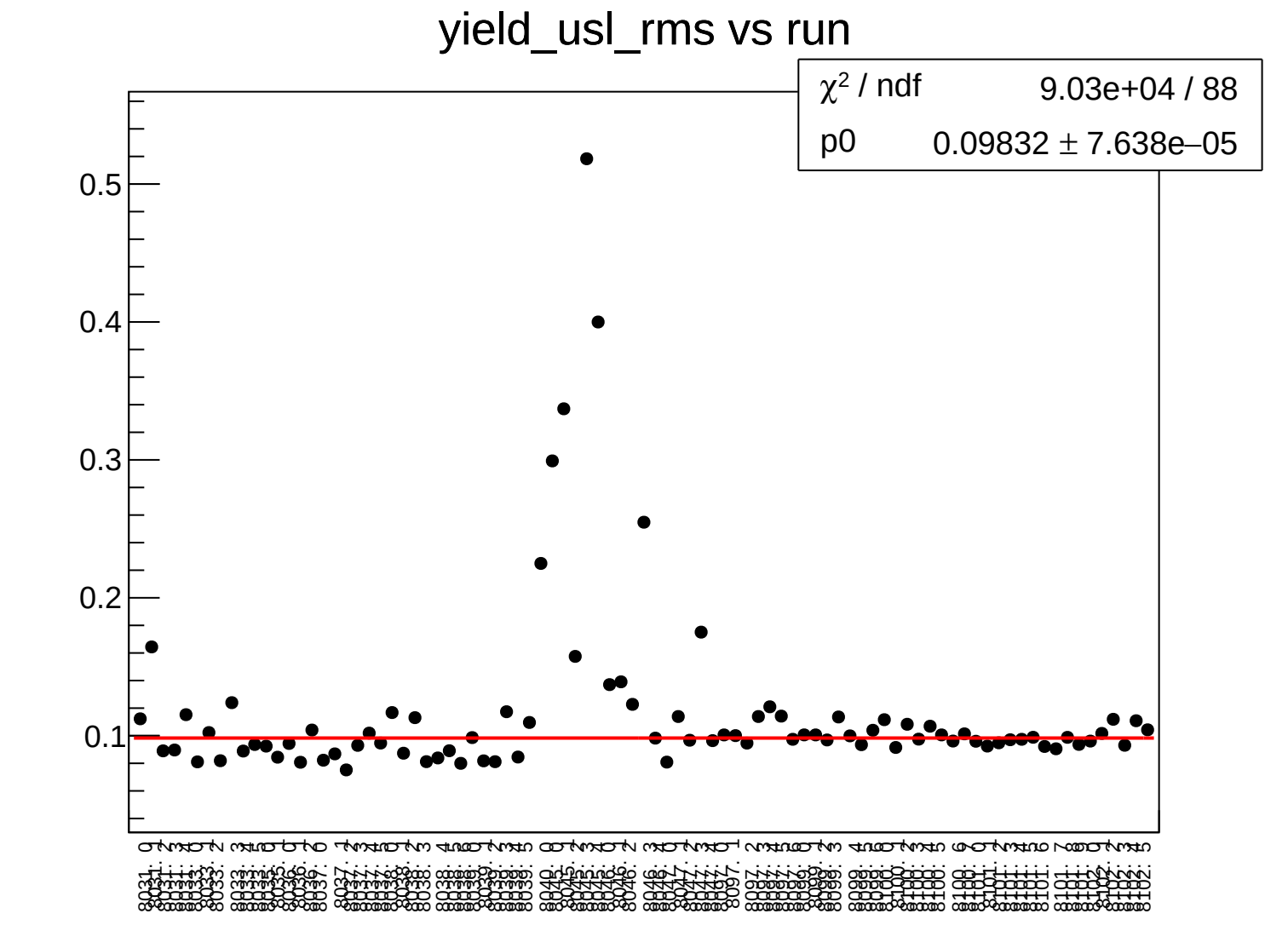

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.61 / 88
p0 −1.266e−13 ± 3.207e−14
pull
Entries 89
Mean 25.03
Std Dev 67.92

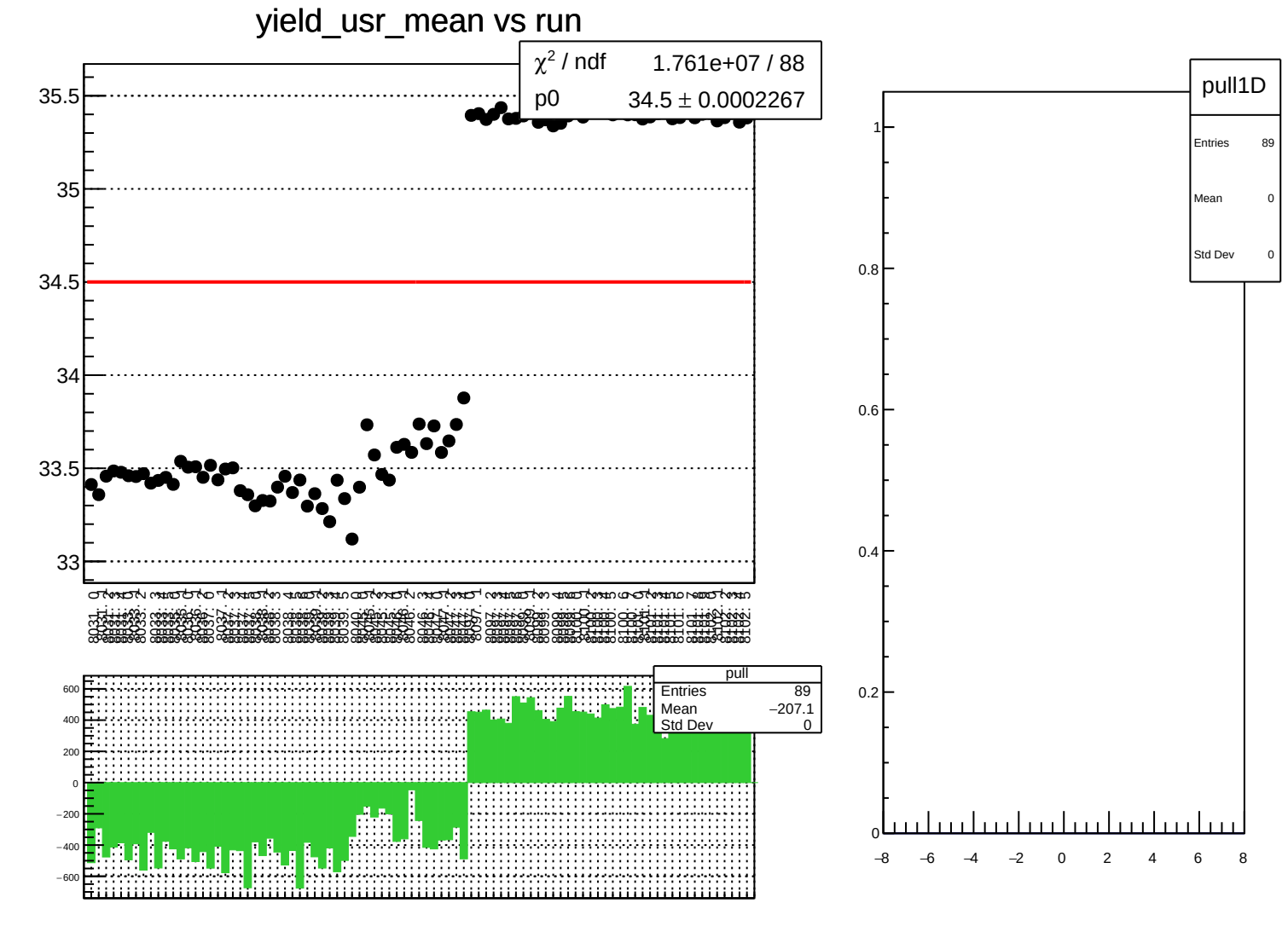

pull1D
Entries 89
Mean 0.01661
Std Dev 1.003

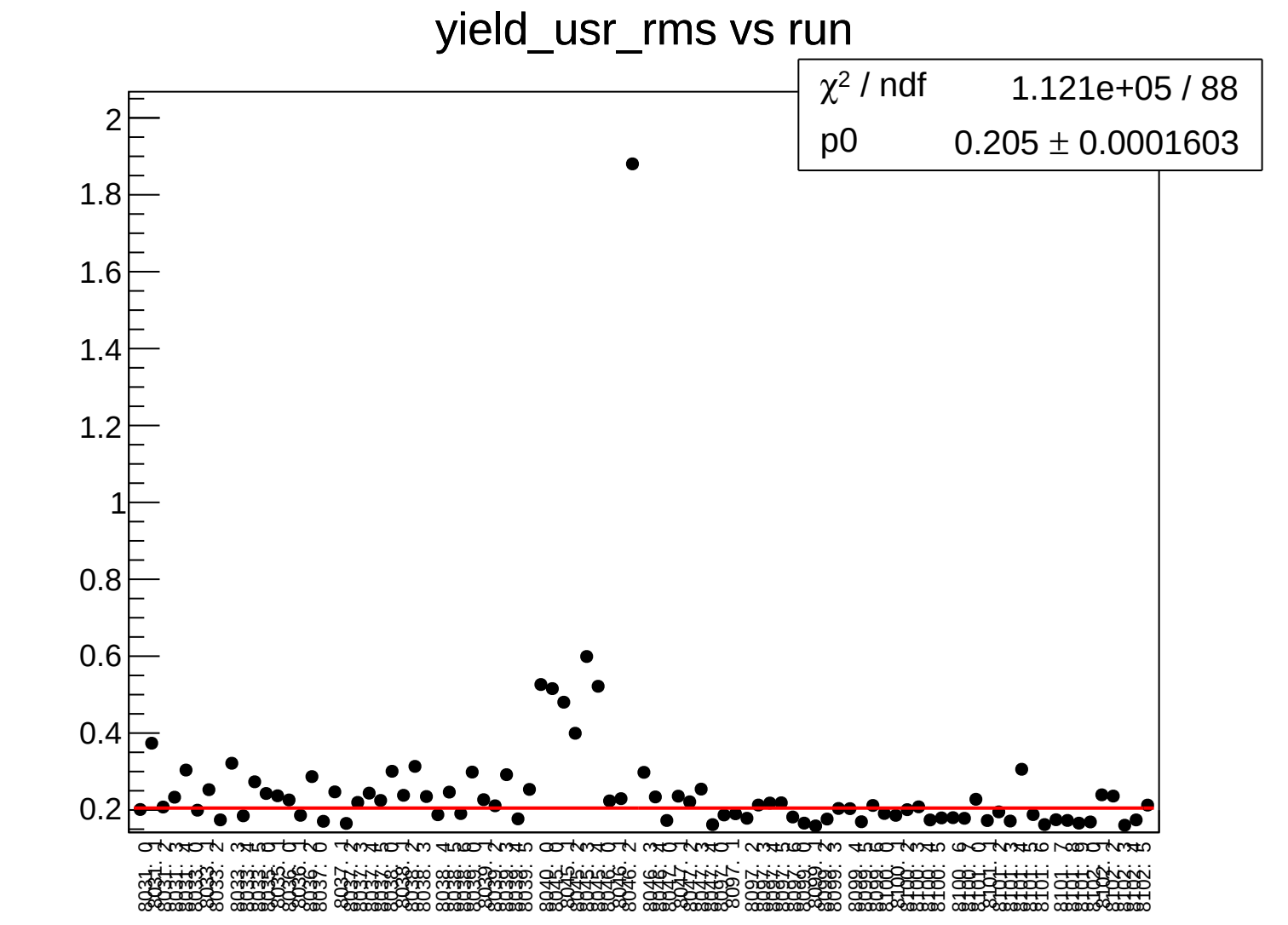

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.475e+05 / 88
p0 2.268e−11 ± 2.268e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

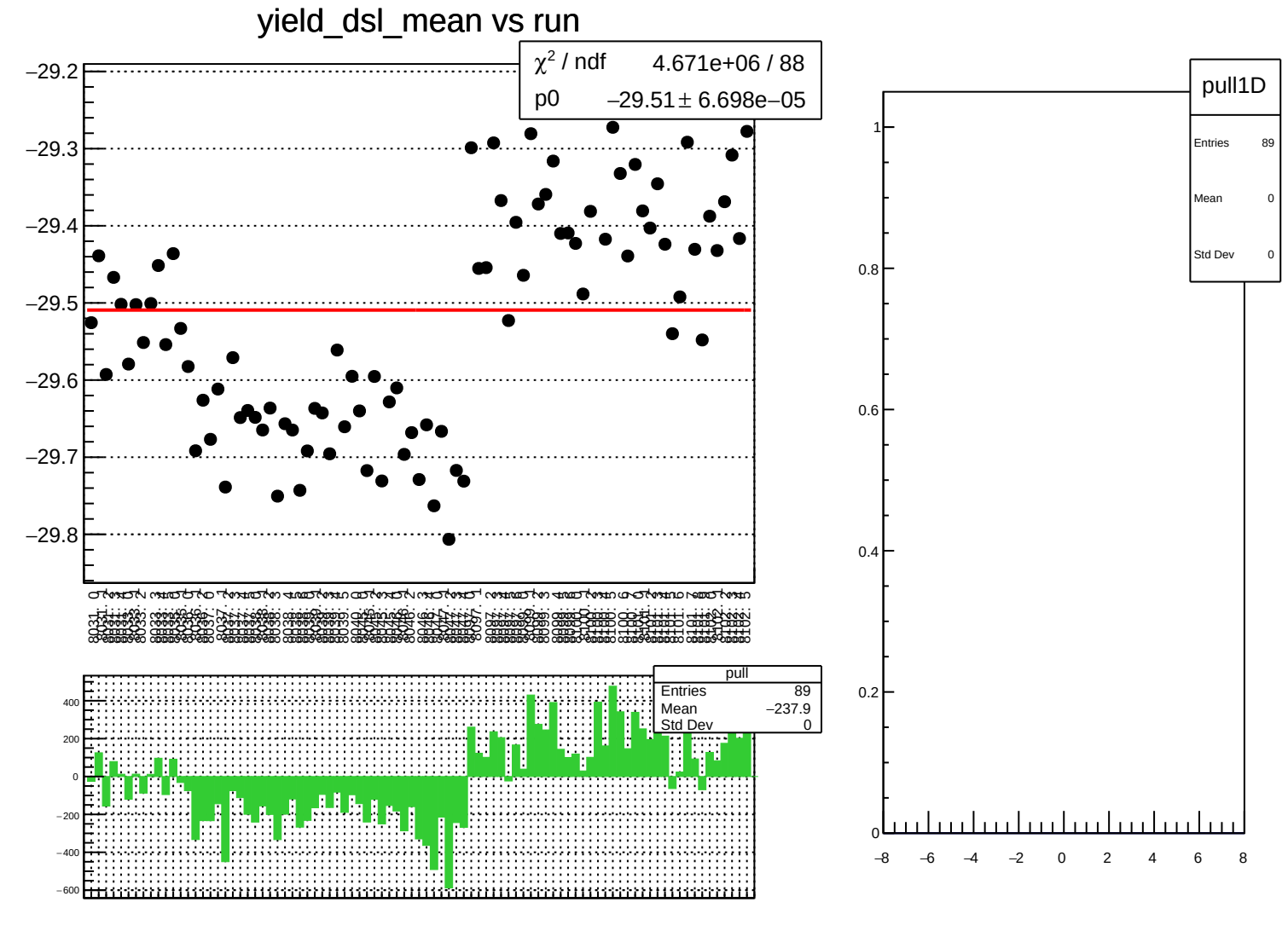

yield_usl_mean vs run
χ² / ndf 3.989e+07 / 88
p0 33.83 ± 0.000108
34.8
34.6
34.4
34.2
34
33.8
33.6
33.4
33.2
33
pull
Entries 89
Mean 779.5
Std Dev 0
1000
500
0
−500
−1000

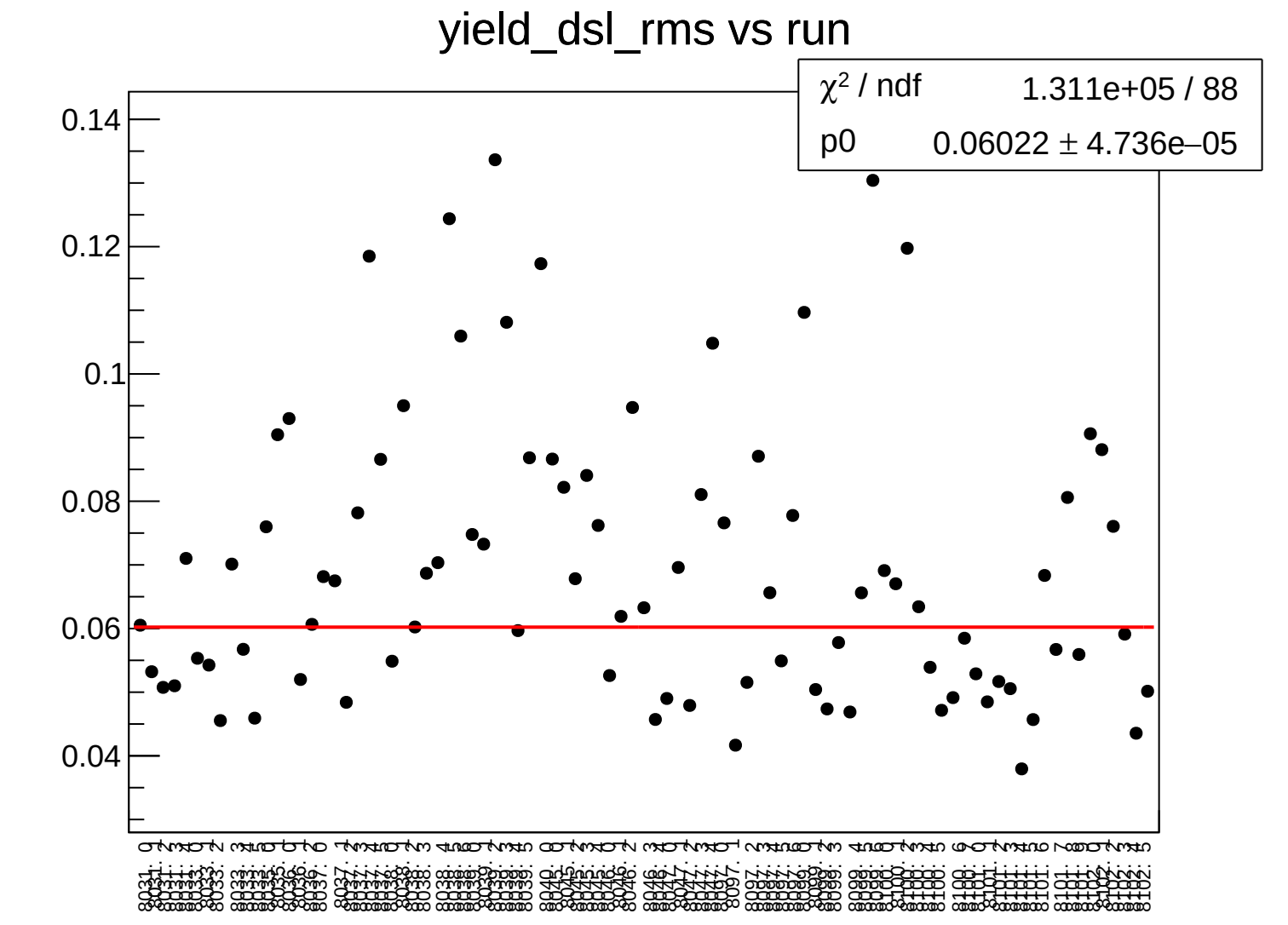

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

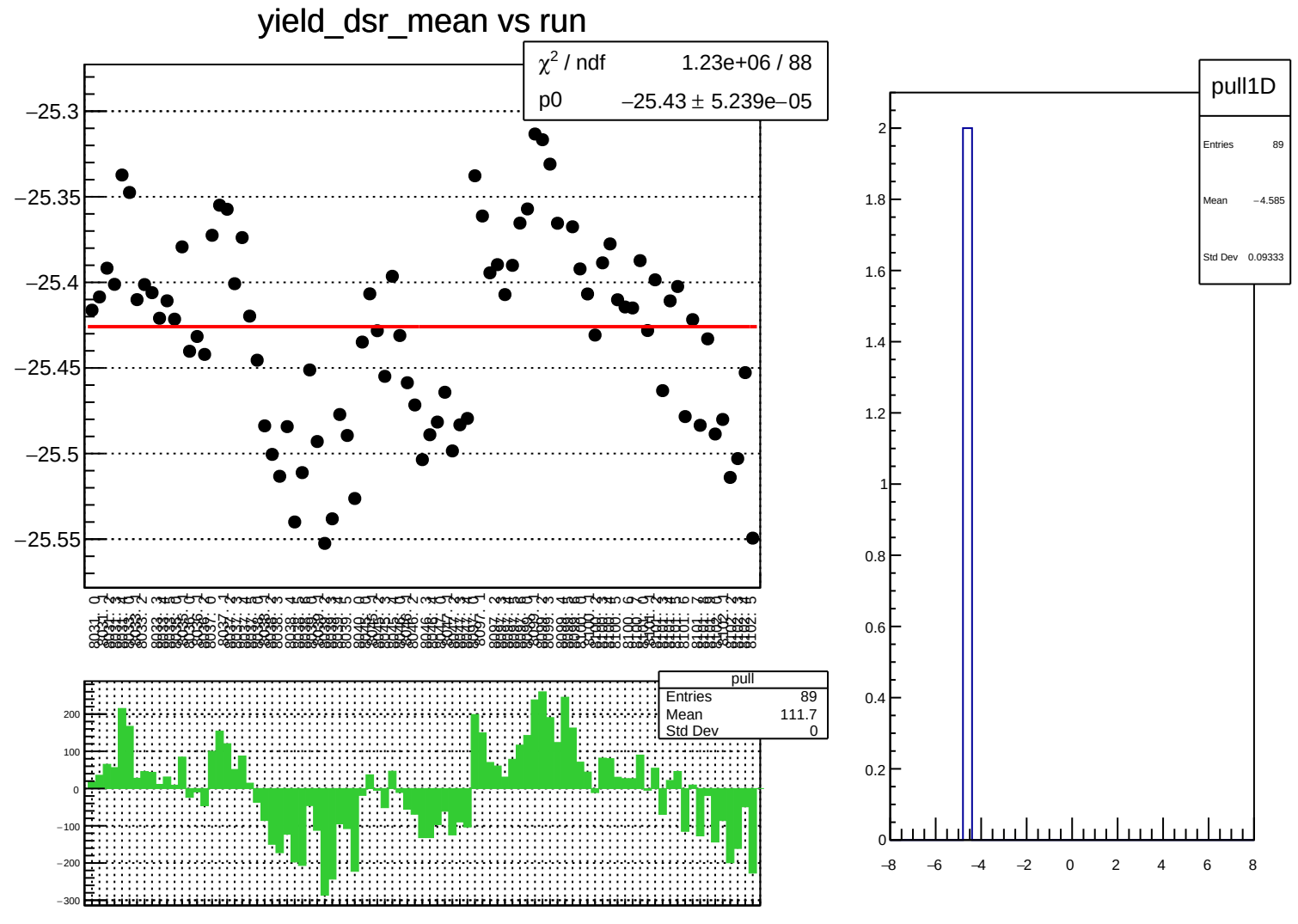

yield_usl_rms vs run
χ² / ndf 9.03e+04 / 88
p0 0.09832 ± 7.638e–05
0.5
0.4
0.3
0.2
0.1

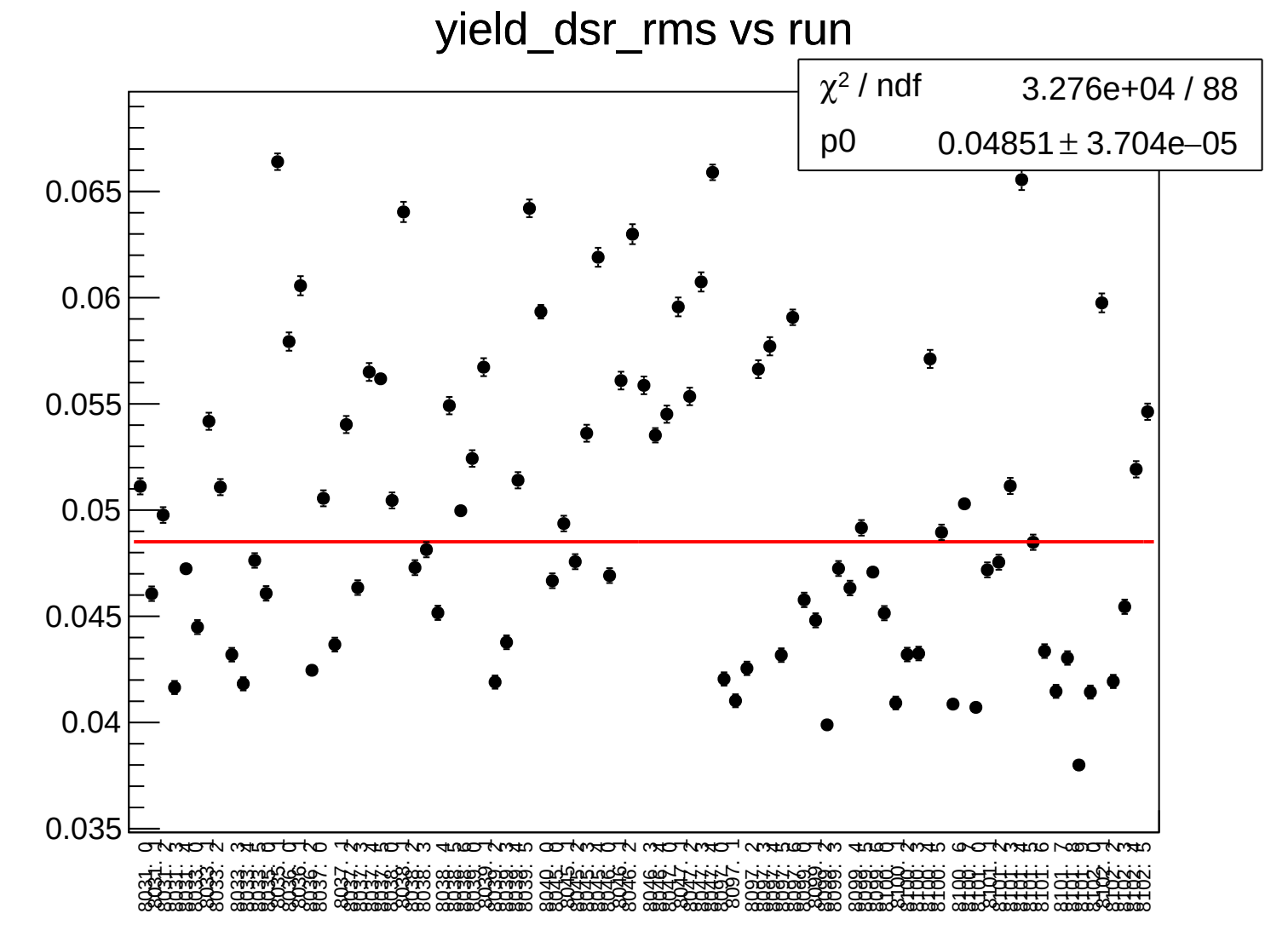

yield_usr_mean vs run
χ² / ndf 1.761e+07 / 88
p0 34.5 ± 0.0002267
35.5
35
34.5
34
33.5
33
pull
Entries 89
Mean −207.1
Std Dev 0
600
400
200
0
−200
−400
−600
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

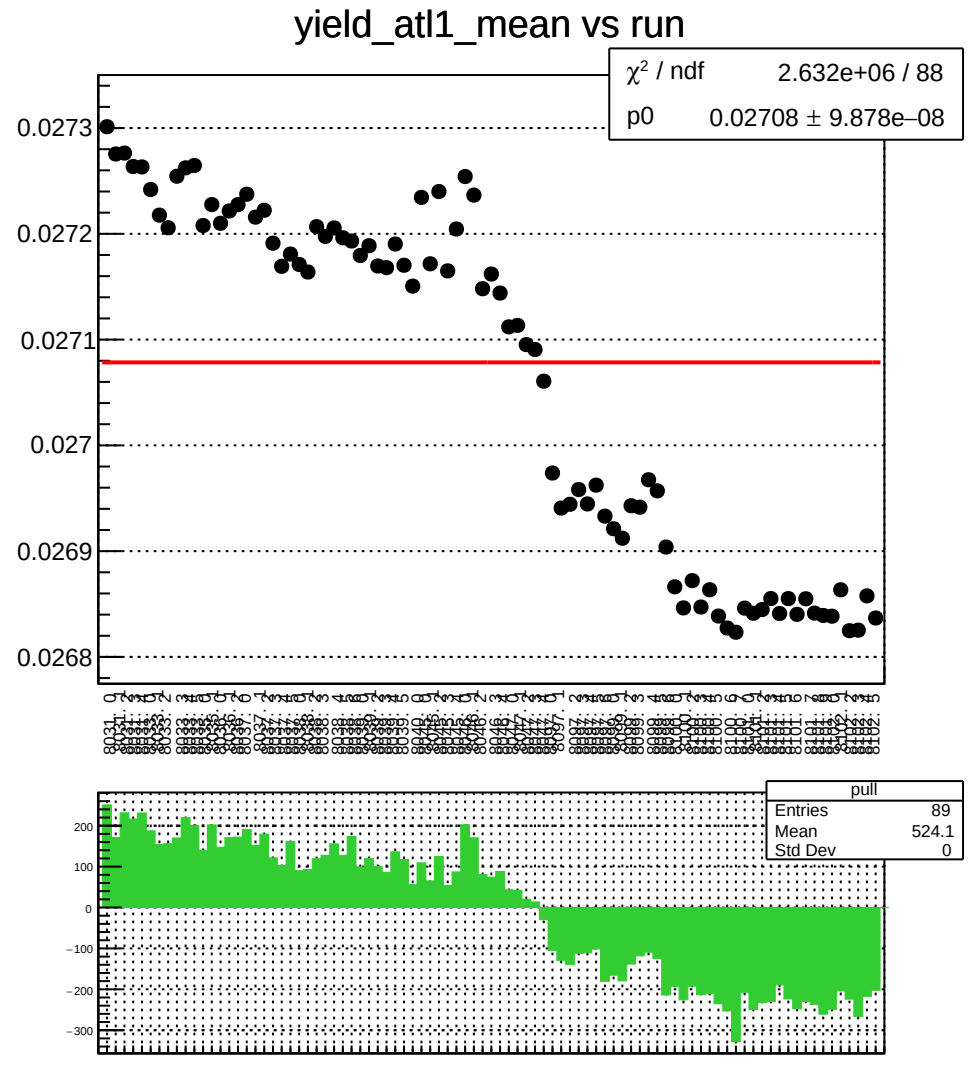

yield_usr_rms vs run
χ² / ndf 1.121e+05 / 88
p0 0.205 ± 0.0001603
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

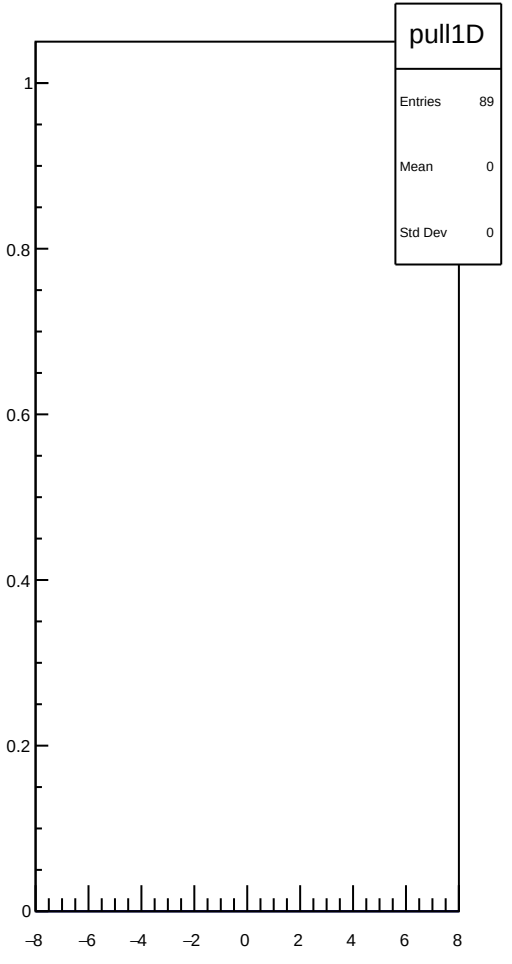

yield_dsl_mean vs run
χ² / ndf 4.671e+06 / 88
p0 −29.51 ± 6.698e−05
−29.2
−29.3
−29.4
−29.5
−29.6
−29.7
−29.8
pull
Entries 89
Mean −237.9
Std Dev 0
400
200
0
−200
−400
−600
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

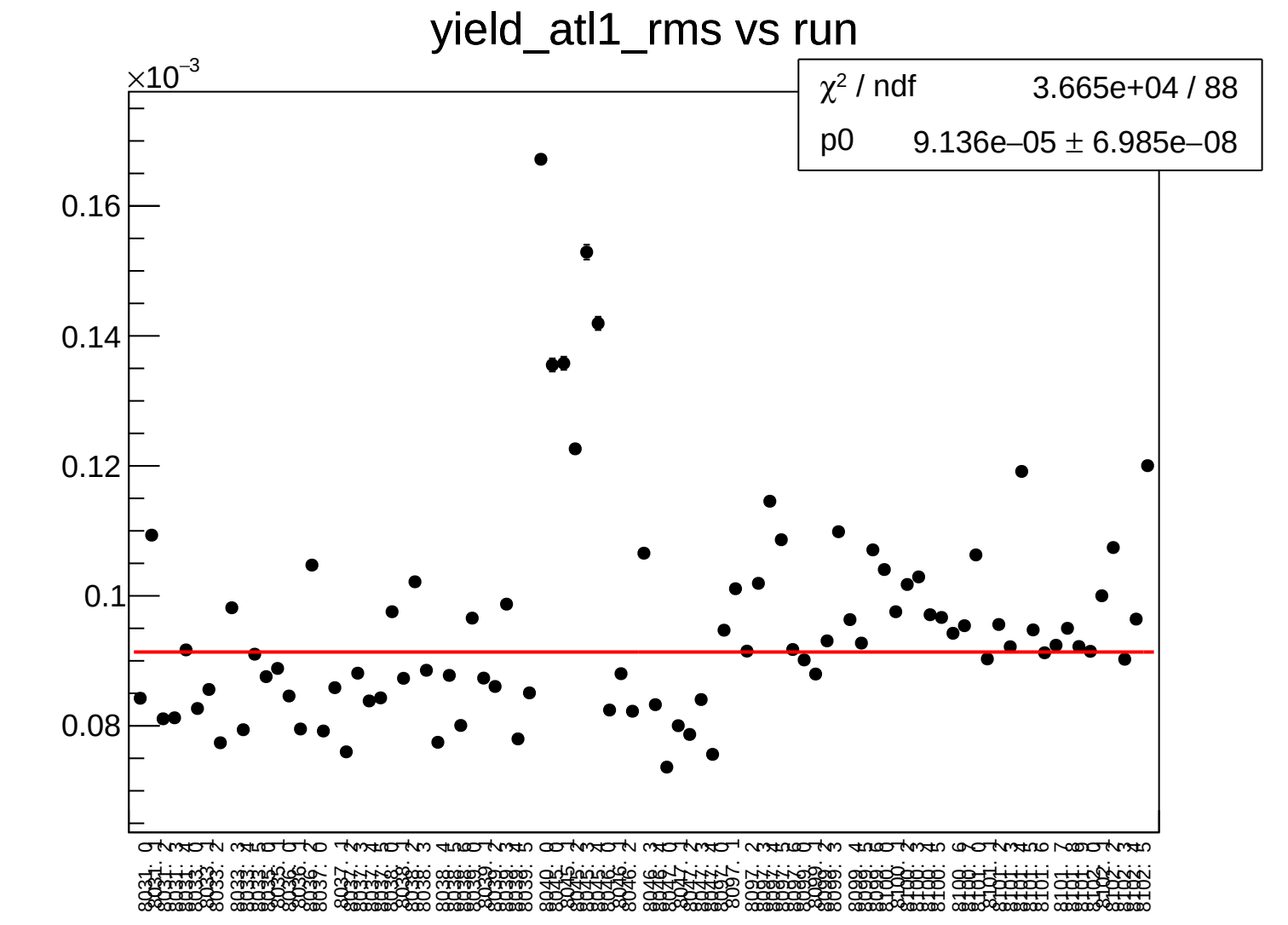

yield_dsl_rms vs run
χ² / ndf 1.311e+05 / 88
p0 0.06022 ± 4.736e–05
0.14
0.12
0.1
0.08
0.06
0.04

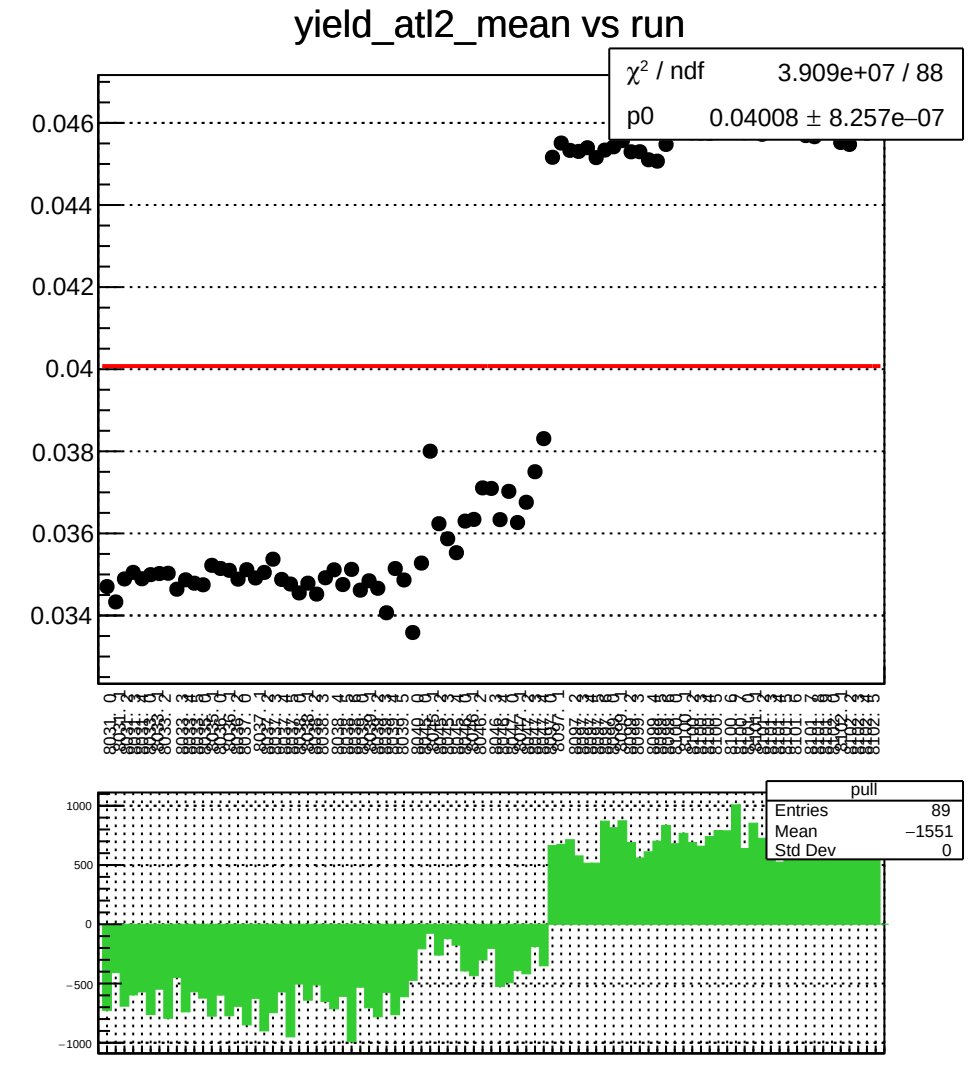

yield_dsr_mean vs run
χ² / ndf 1.23e+06 / 88
p0 −25.43 ± 5.239e−05
−25.3
−25.35
−25.4
−25.45
−25.5
−25.55
pull
Entries 89
Mean 111.7
Std Dev 0
200
100
0
−100
−200
−300
pull1D
Entries 89
Mean −4.585
Std Dev 0.09333
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

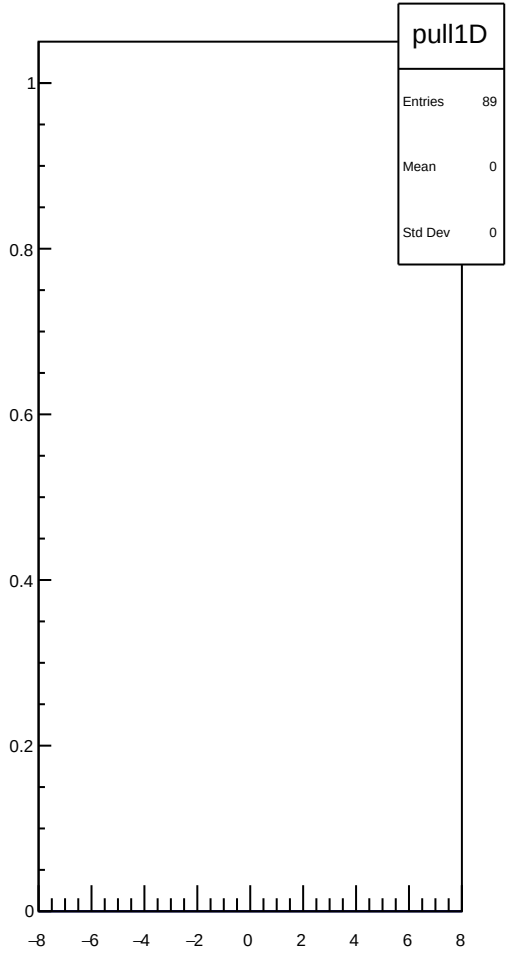

yield_dsr_rms vs run
χ² / ndf 3.276e+04 / 88
p0 0.04851 ± 3.704e–05
0.065
0.06
0.055
0.05
0.045
0.04
0.035

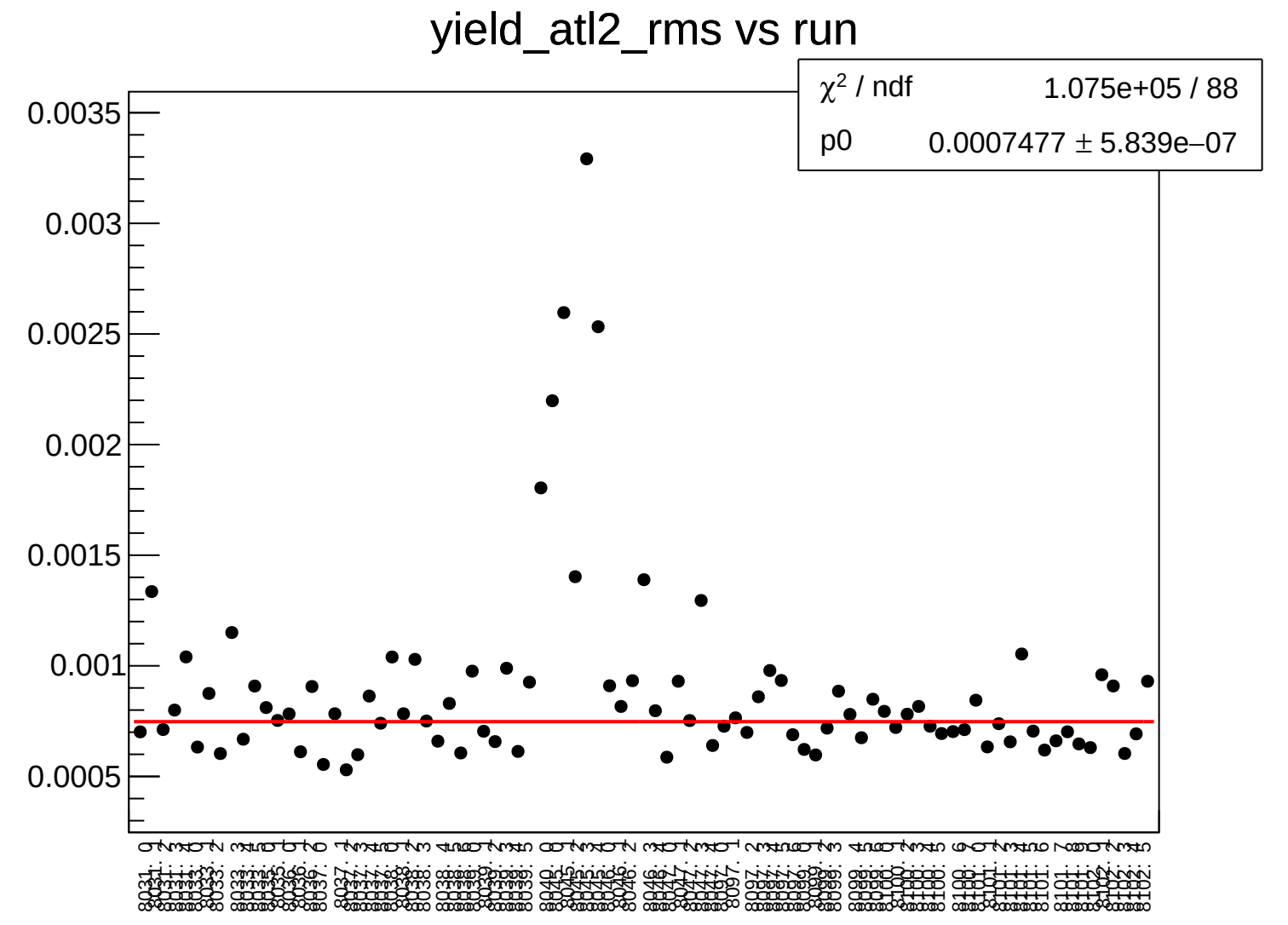

yield_atl1_mean vs run
χ² / ndf 2.632e+06 / 88
p0 0.02708 ± 9.878e−08
0.0273
0.0272
0.0271
0.027
0.0269
0.0268
pull
Entries 89
Mean 524.1
Std Dev 0
200
100
0
−100
−200
−300

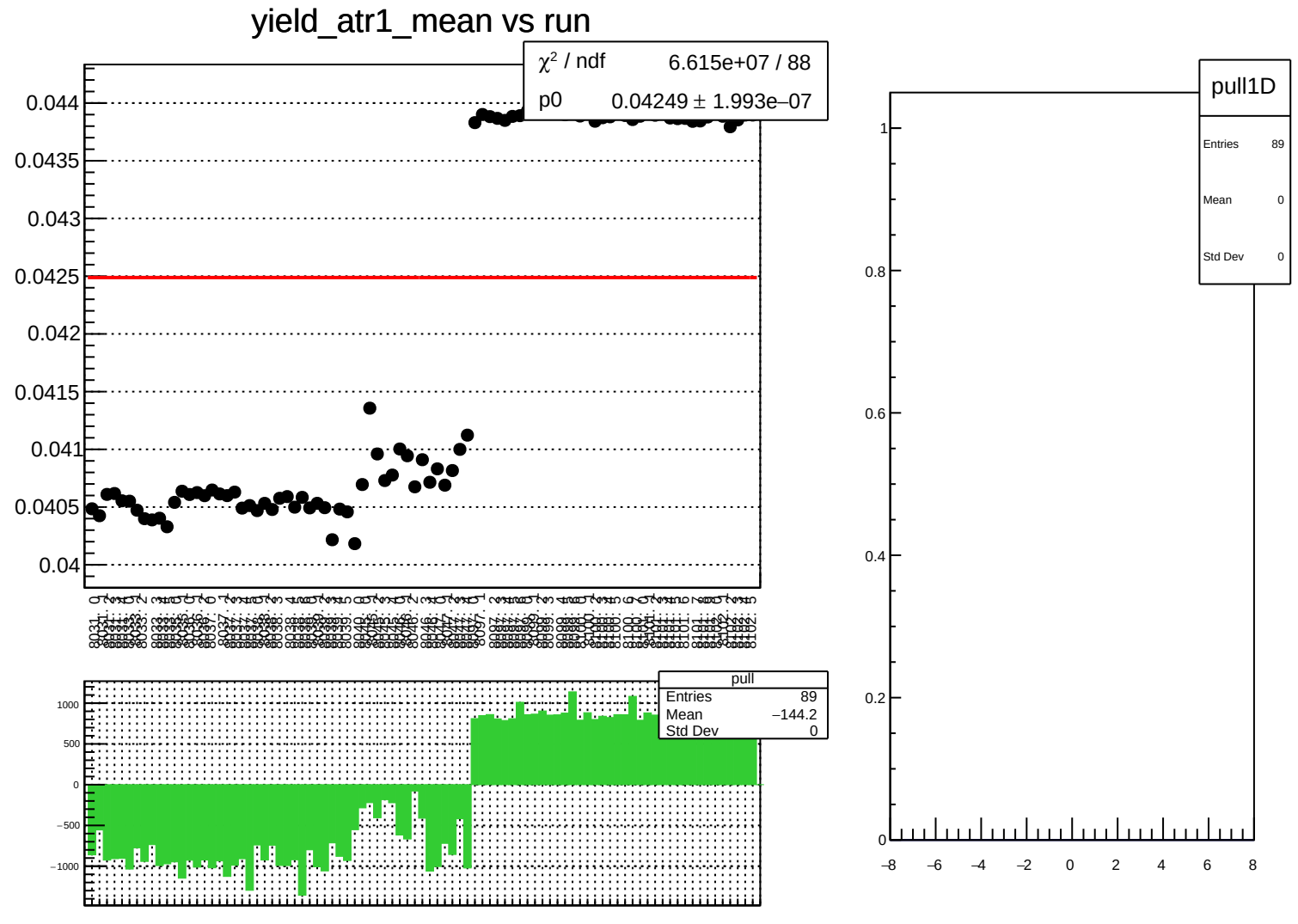

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

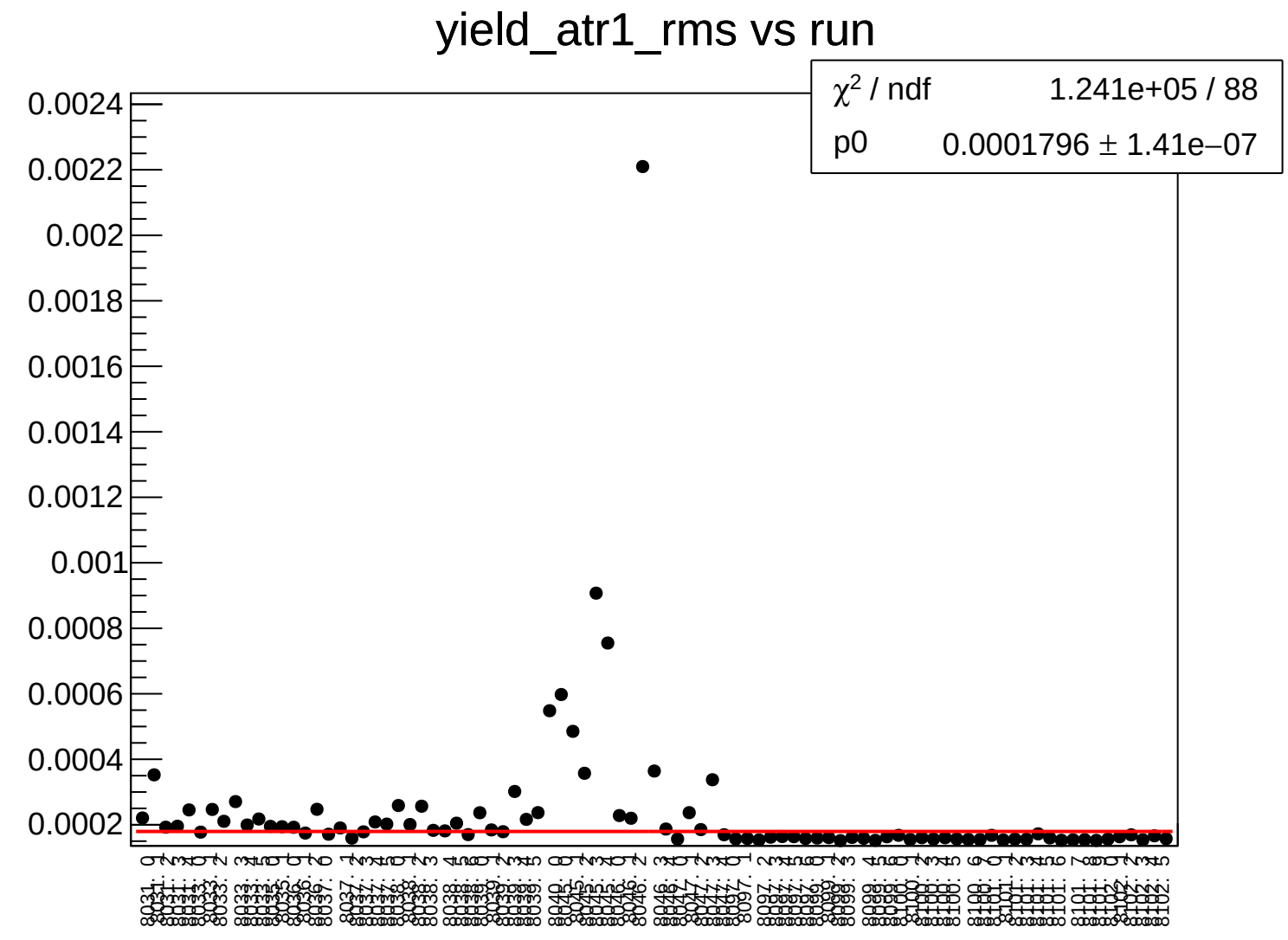

yield_atl1_rms vs run
×10⁻³
χ² / ndf 3.665e+04 / 88
p0 9.136e−05 ± 6.985e−08
0.16
0.14
0.12
0.1
0.08

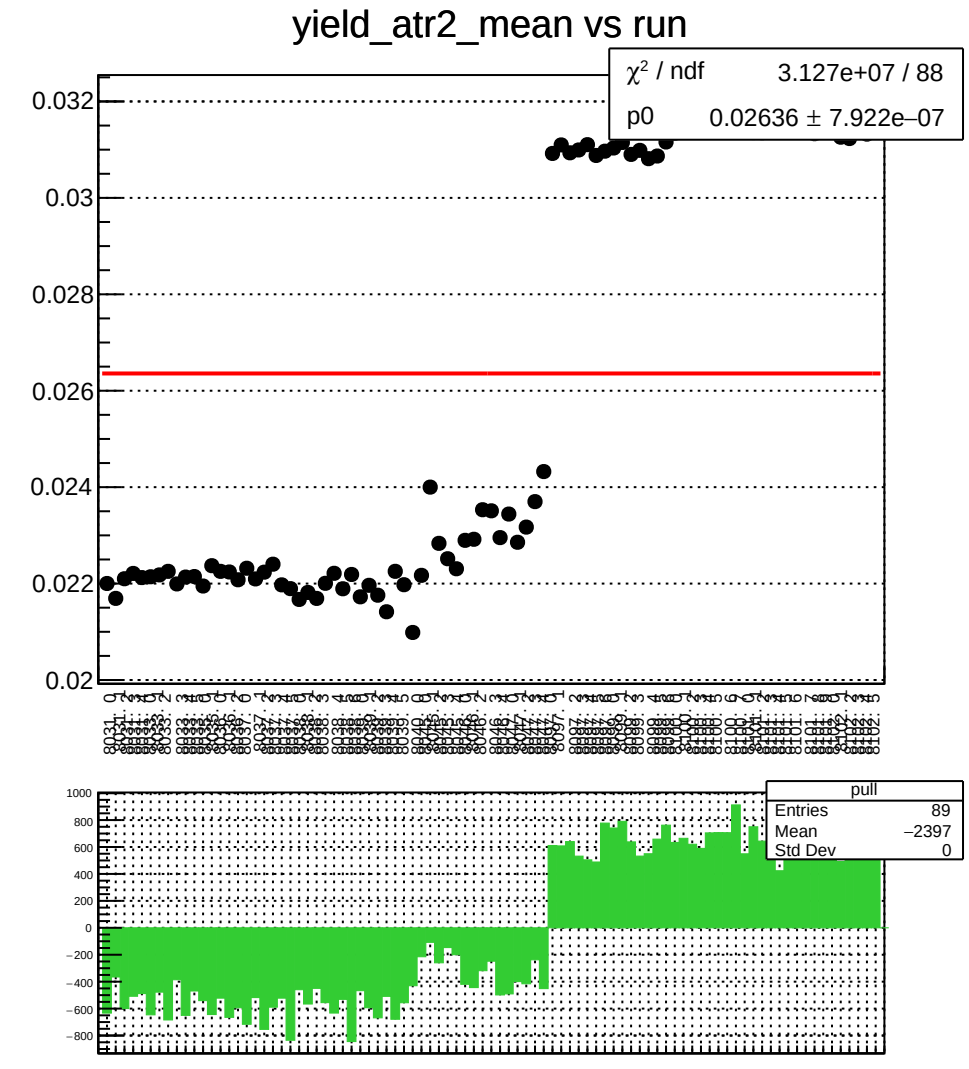

yield_atl2_mean vs run
χ² / ndf 3.909e+07 / 88
p0 0.04008 ± 8.257e−07
0.046
0.044
0.042
0.04
0.038
0.036
0.034
pull
Entries 89
Mean −1551
Std Dev 0
1000
500
0
−500
−1000

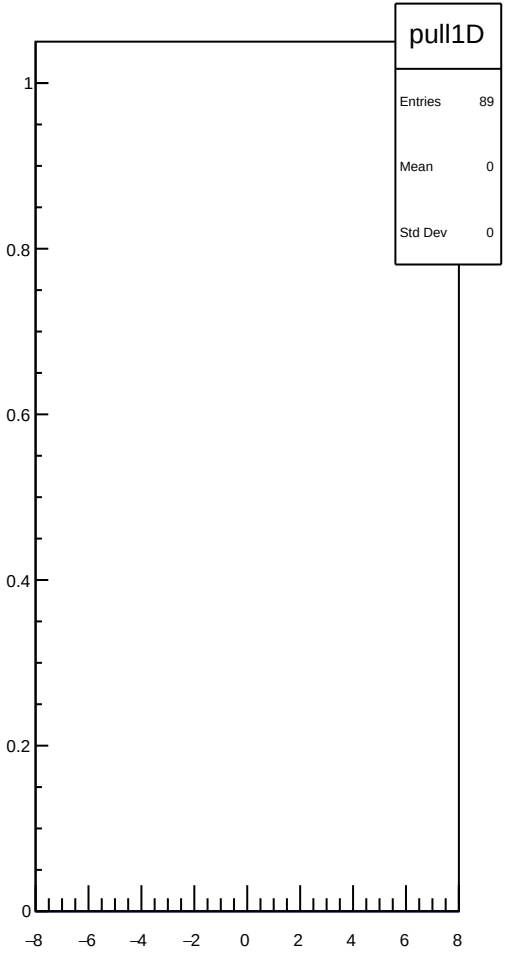

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

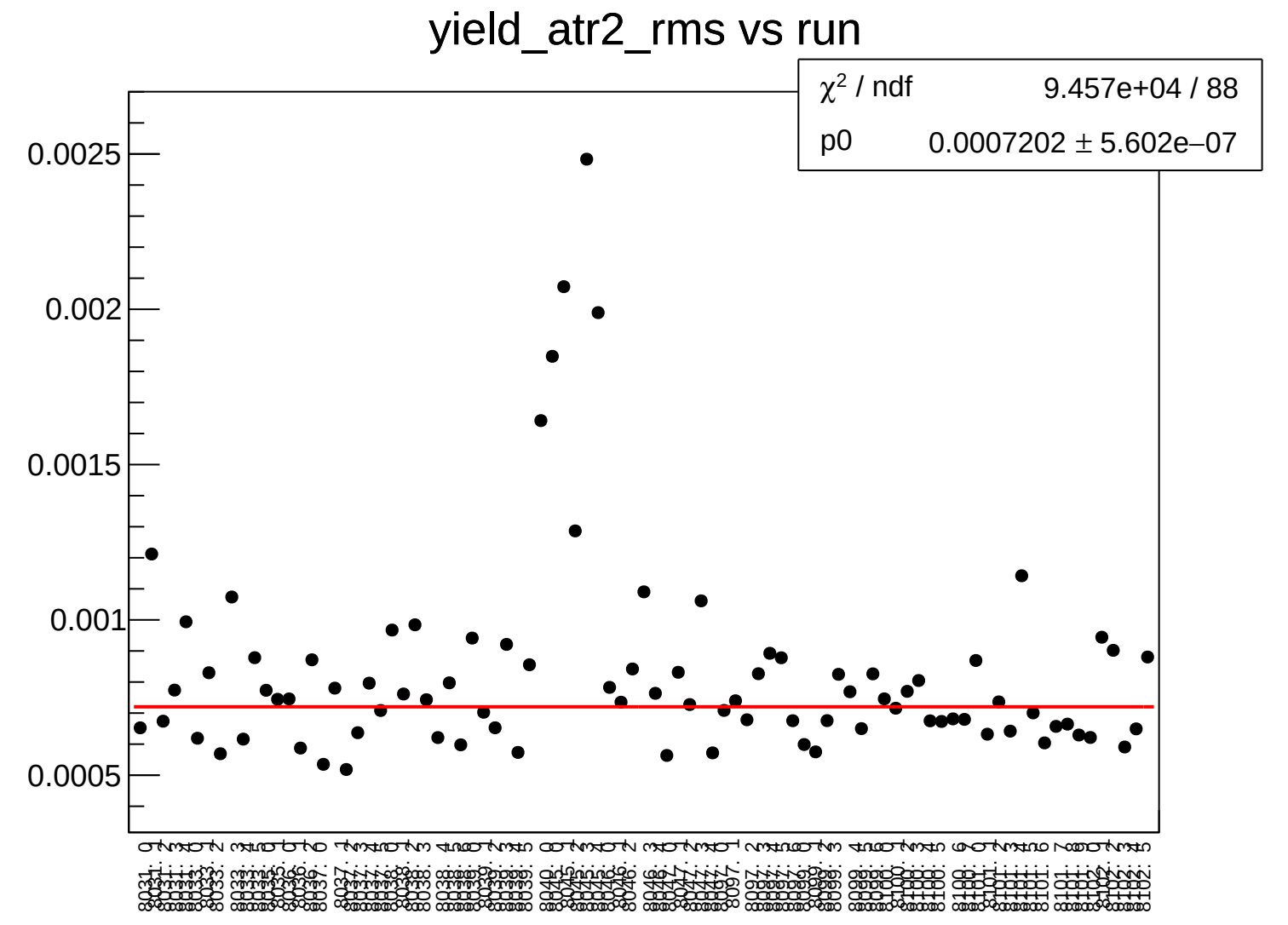

yield_atl2_rms vs run
χ² / ndf 1.075e+05 / 88
p0 0.0007477 ± 5.839e−07
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005

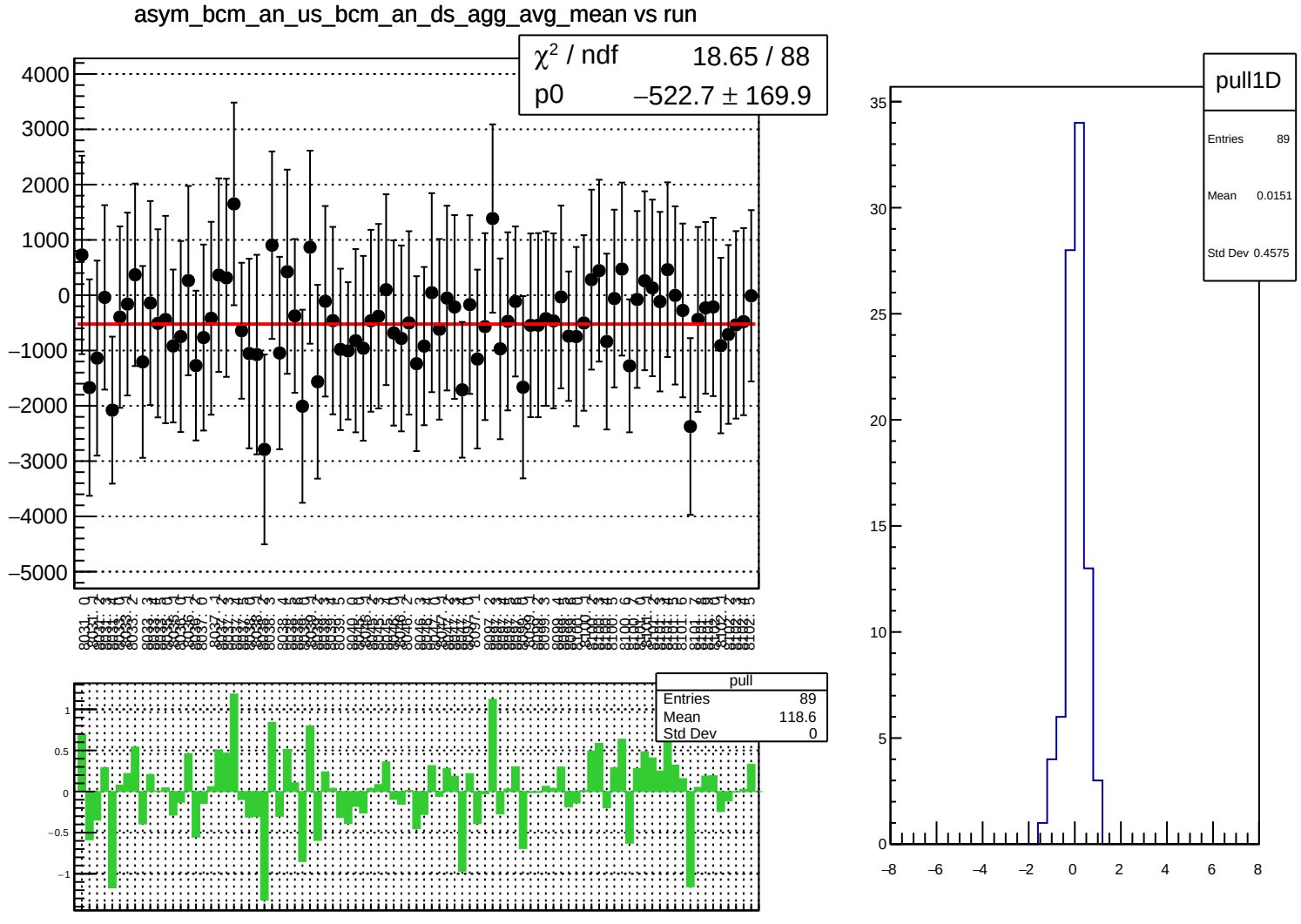

yield_atr1_mean vs run
χ² / ndf 6.615e+07 / 88
p0 0.04249 ± 1.993e−07
0.044
0.0435
0.043
0.0425
0.042
0.0415
0.041
0.0405
0.04
pull
Entries 89
Mean −144.2
Std Dev 0
1000
500
0
−500
−1000
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

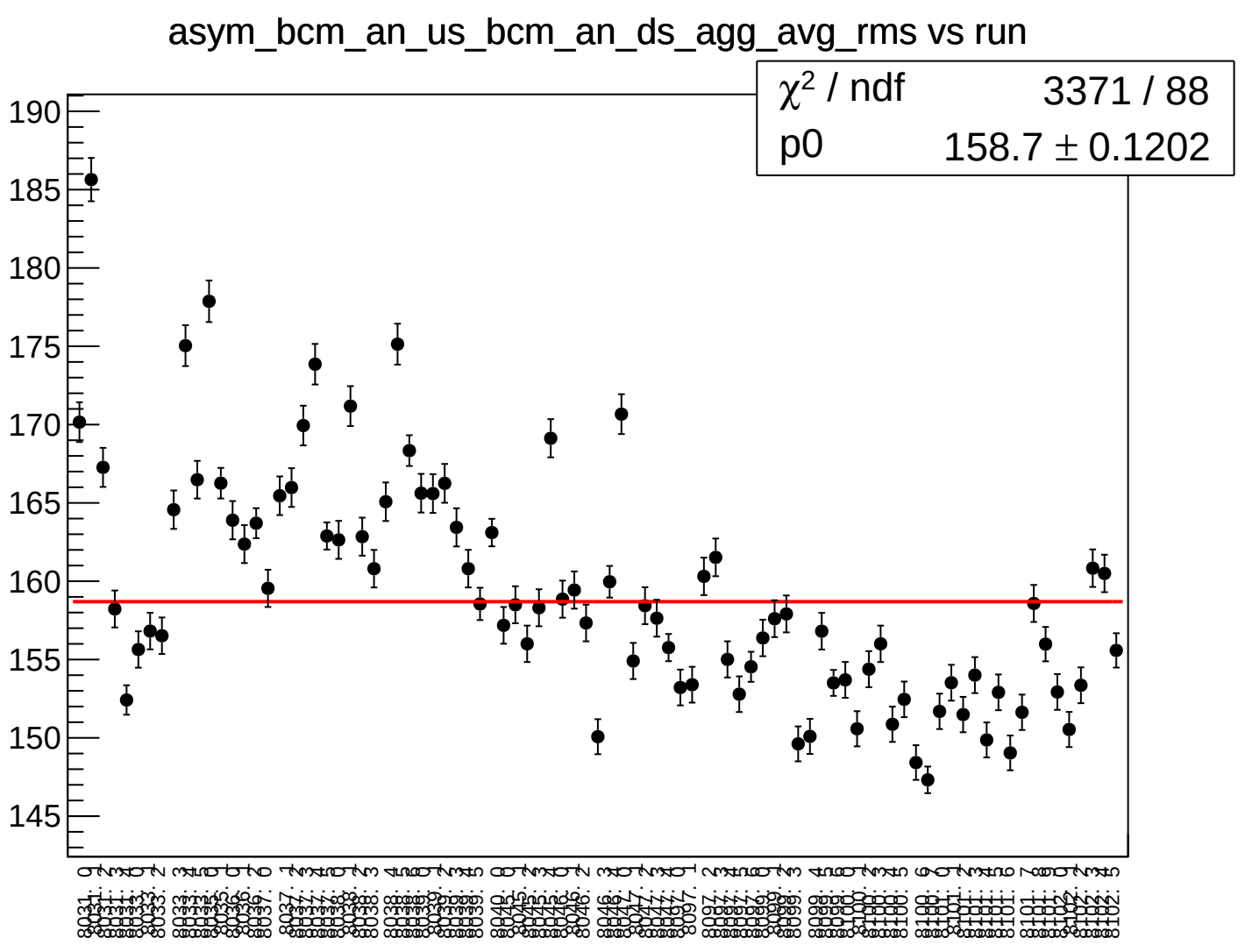

yield_atr1_rms vs run
χ² / ndf 1.241e+05 / 88
p0 0.0001796 ± 1.41e−07
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

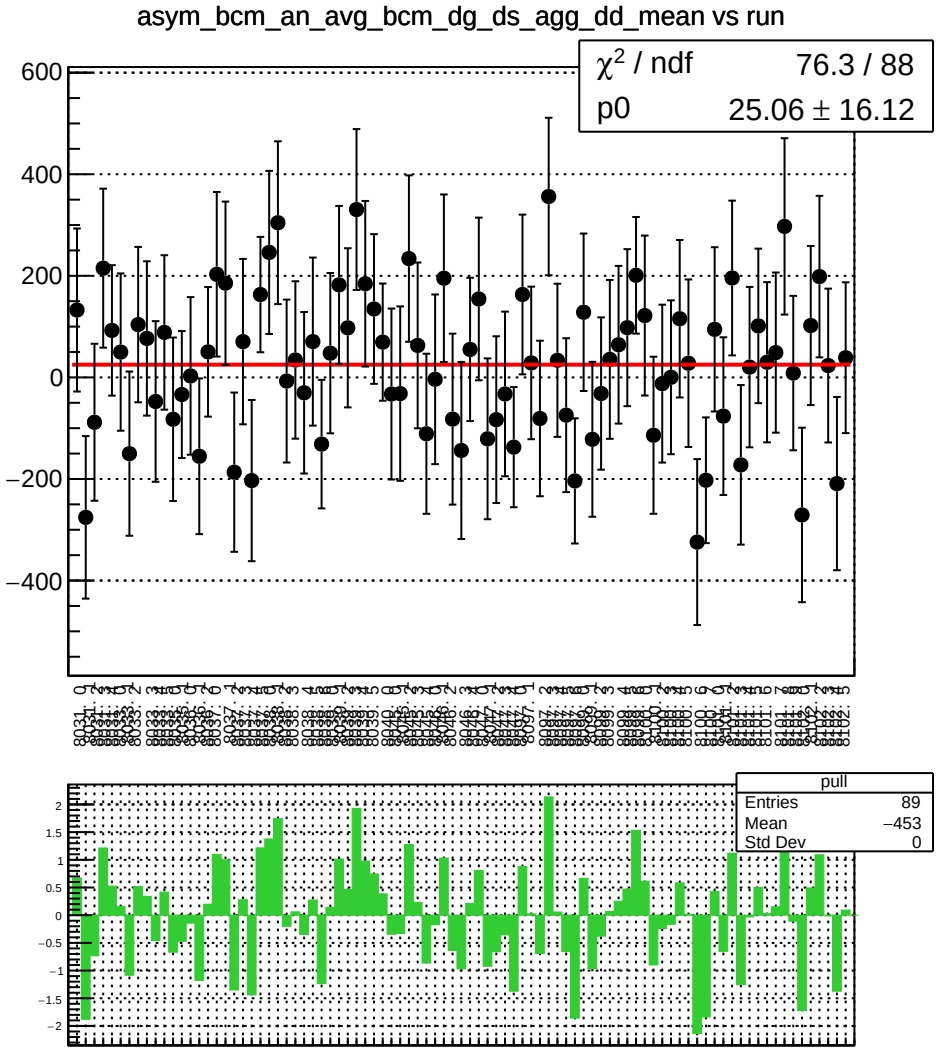

yield_atr2_mean vs run
χ² / ndf 3.127e+07 / 88
p0 0.02636 ± 7.922e−07
0.032
0.03
0.028
0.026
0.024
0.022
0.02
pull
Entries 89
Mean −2397
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600
−800

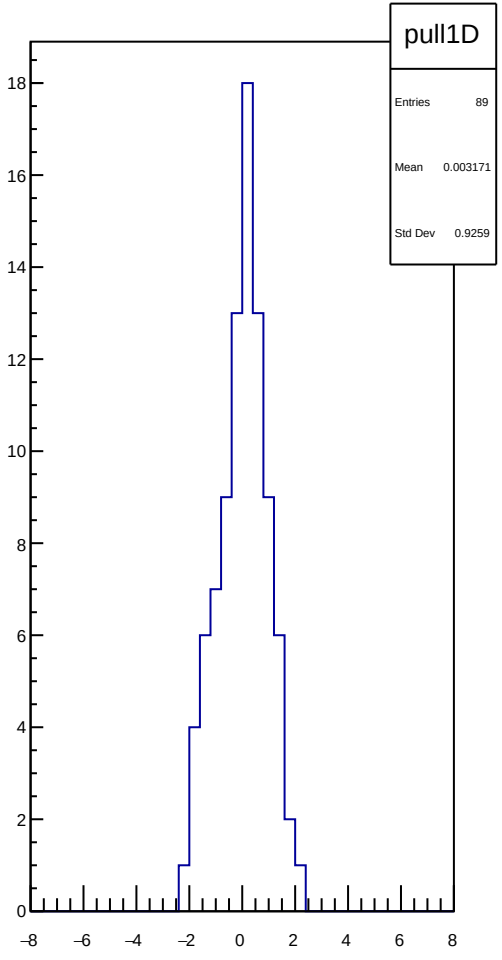

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

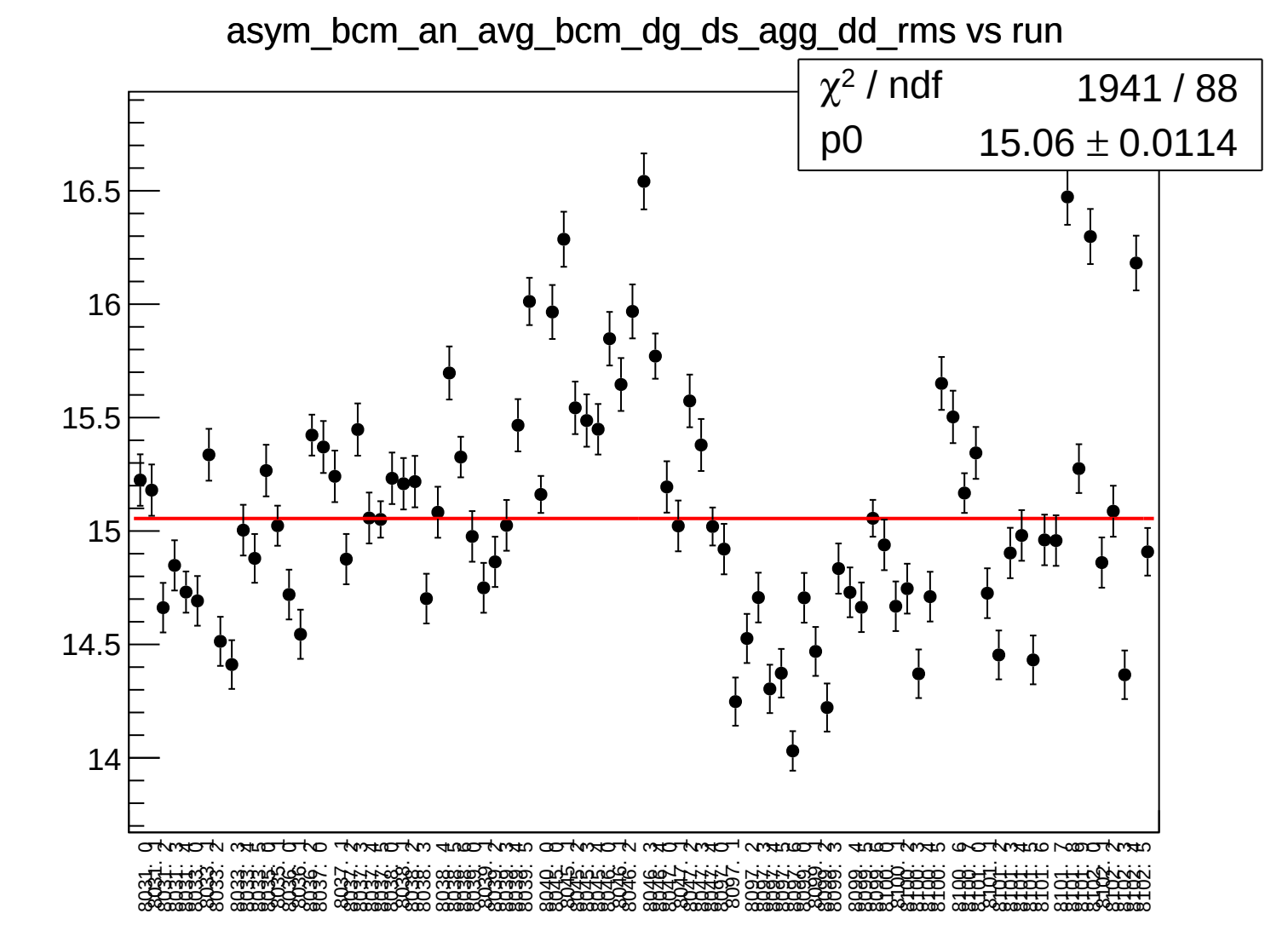

yield_atr2_rms vs run
χ² / ndf 9.457e+04 / 88
p0 0.0007202 ± 5.602e−07
0.0025
0.002
0.0015
0.001
0.0005

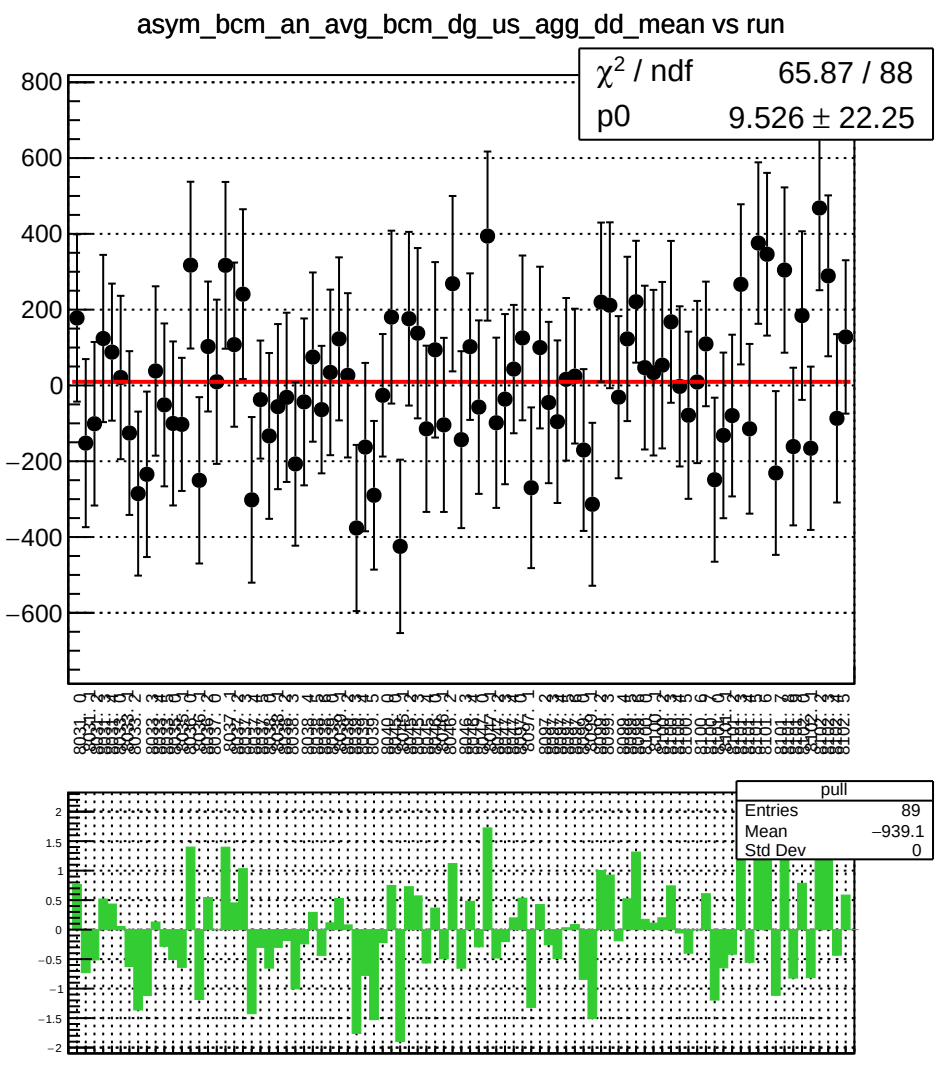

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 18.65 / 88
p0 −522.7 ± 169.9
pull
Entries 89
Mean 118.6
Std Dev 0
pull1D
Entries 89
Mean 0.0151
Std Dev 0.4575

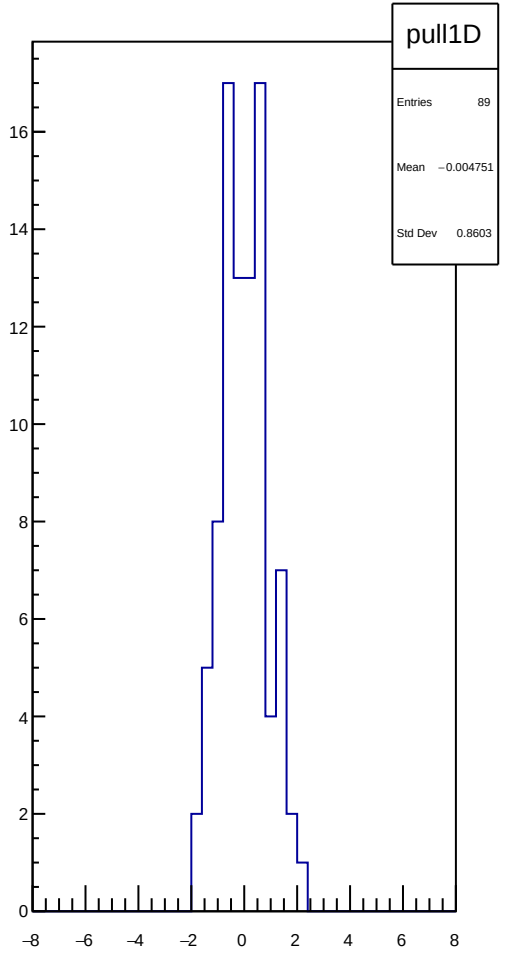

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3371 / 88
p0 158.7 ± 0.1202
190
185
180
175
170
165
160
155
150
145

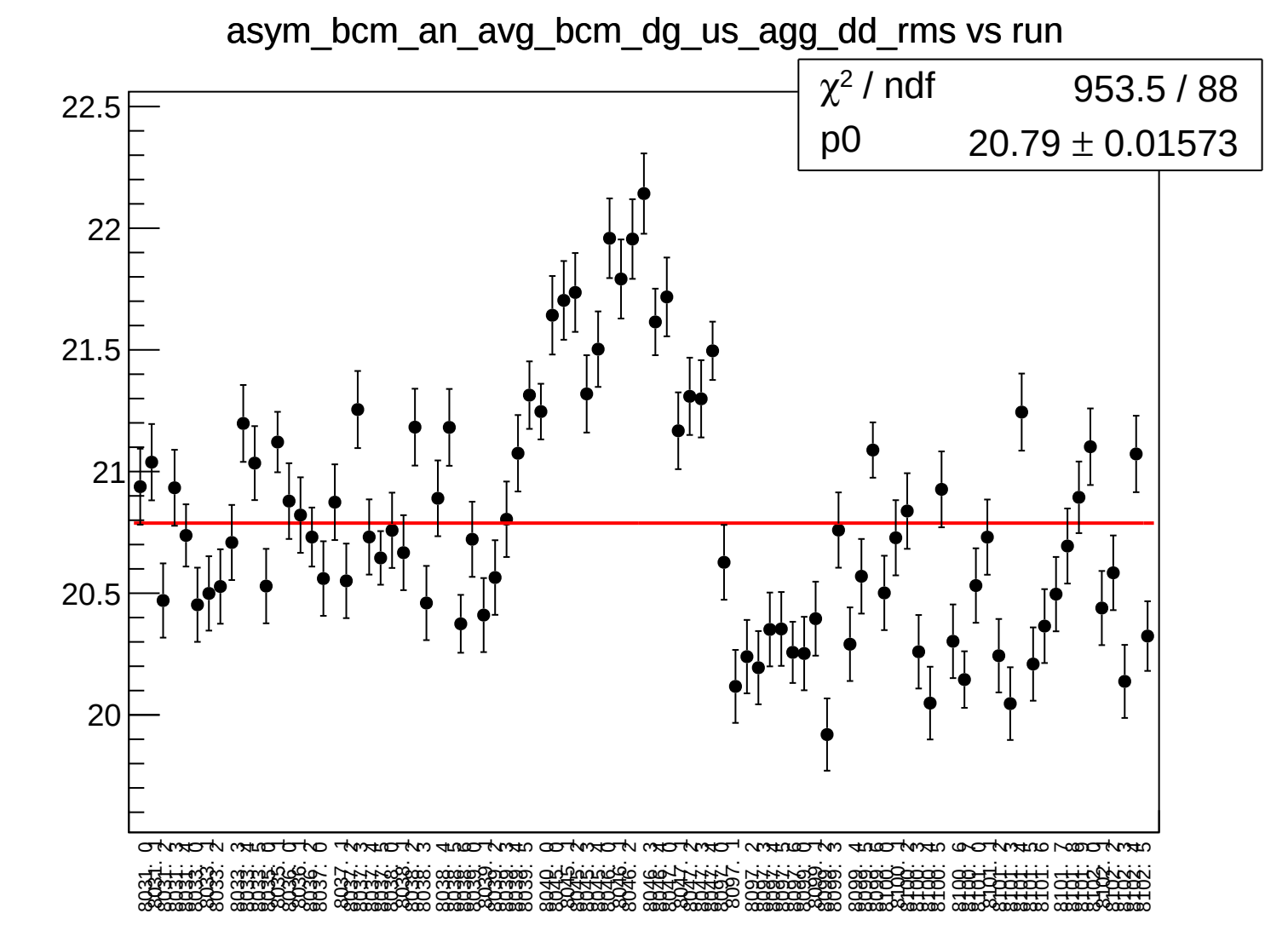

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 76.3 / 88
p0 25.06 ± 16.12
600
400
200
0
−200
−400
pull
Entries 89
Mean −453
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

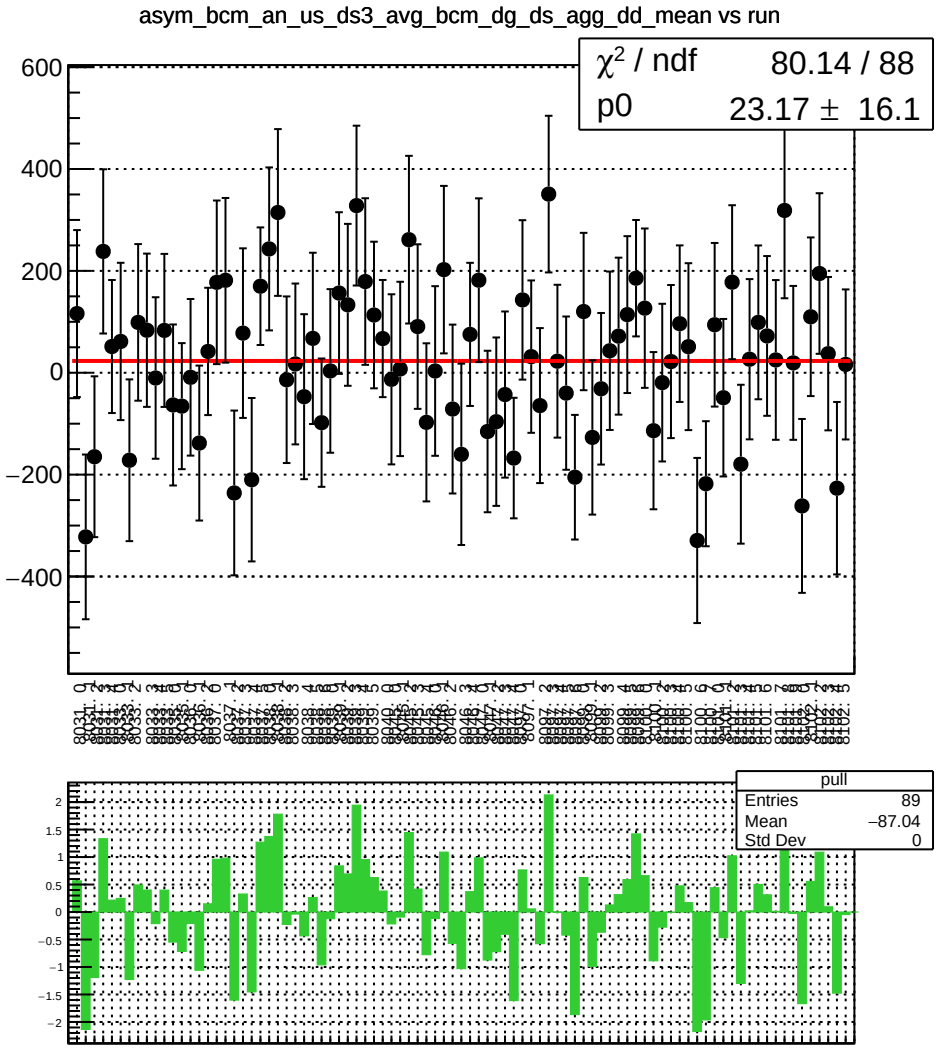

pull1D
Entries 89
Mean 0.003171
Std Dev 0.9259
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

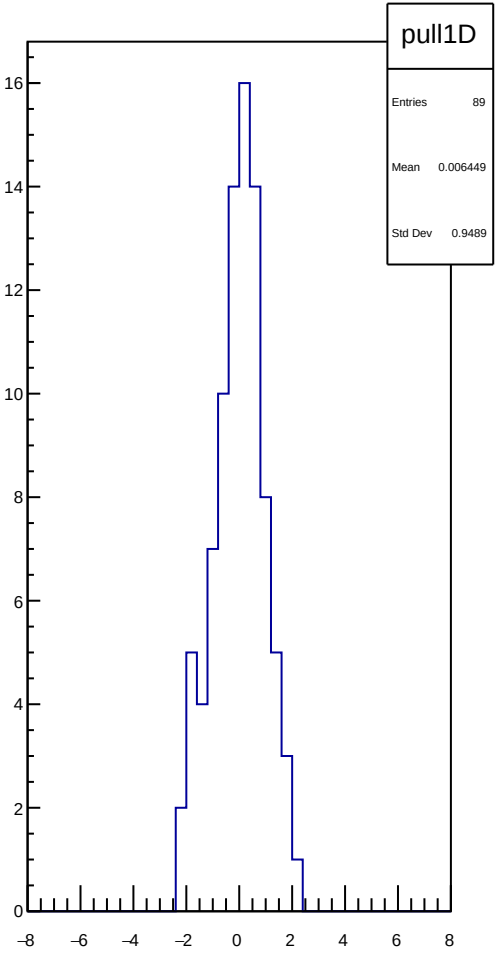

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1941 / 88
p0 15.06 ± 0.0114
16.5
16
15.5
15
14.5
14

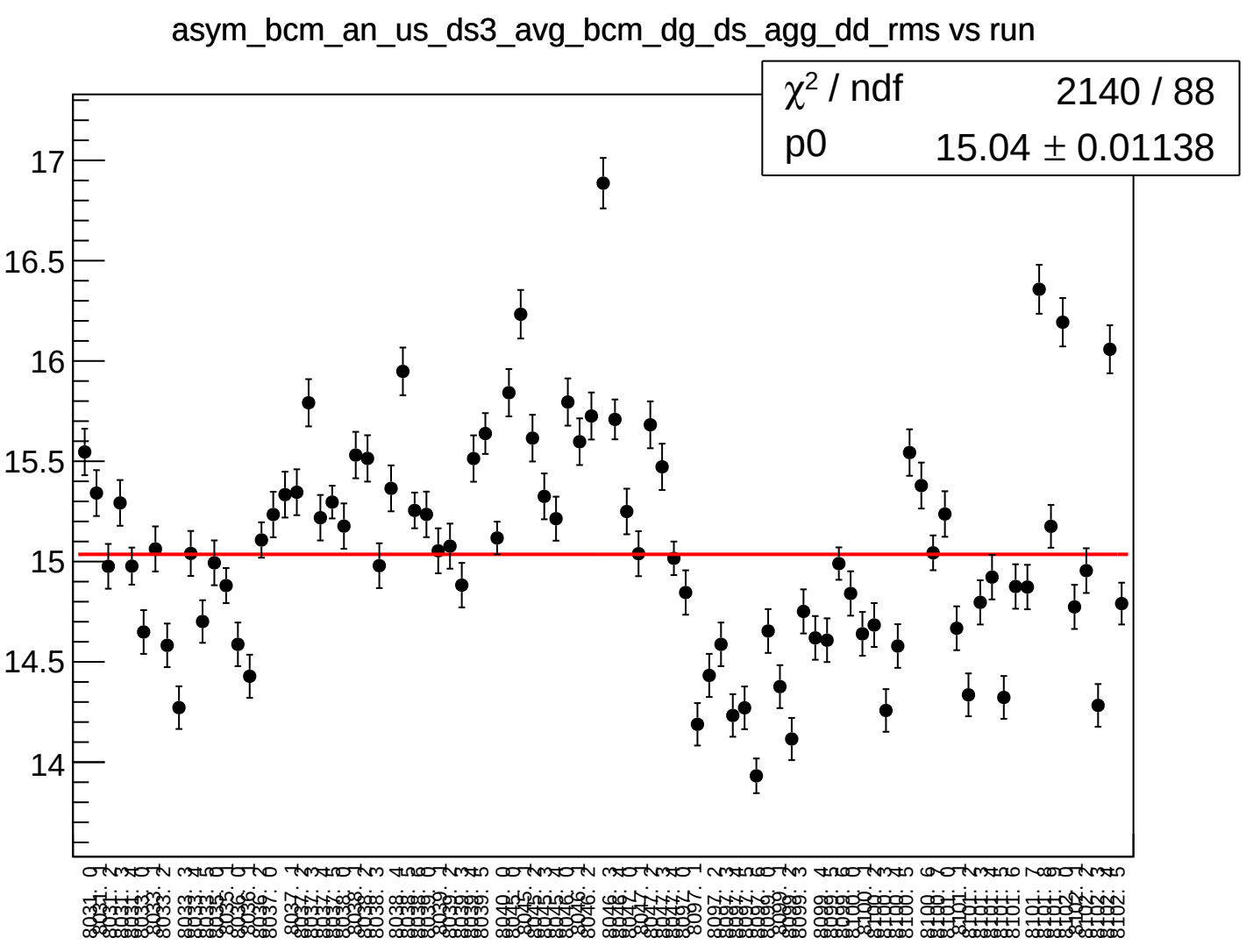

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 65.87 / 88
p0 9.526 ± 22.25
800
600
400
200
0
−200
−400
−600
pull
Entries 89
Mean −939.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

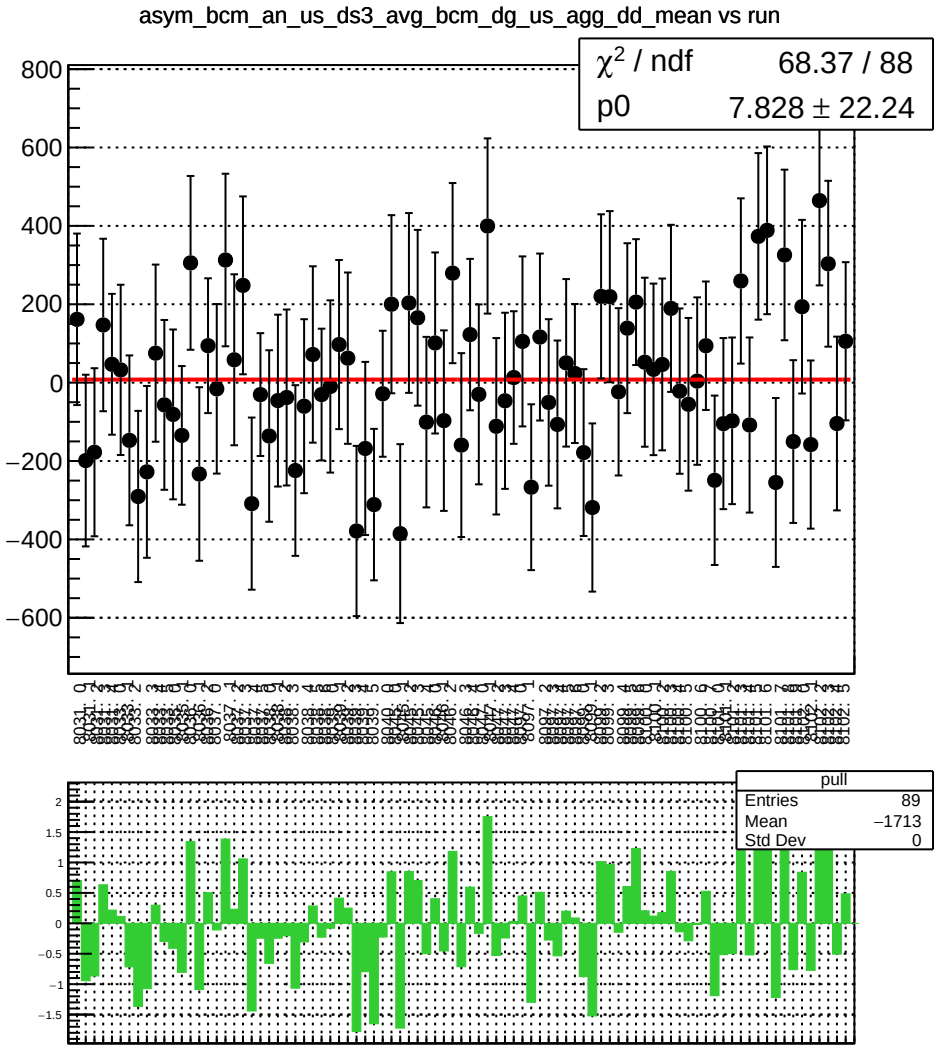

pull1D
Entries 89
Mean −0.004751
Std Dev 0.8603
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

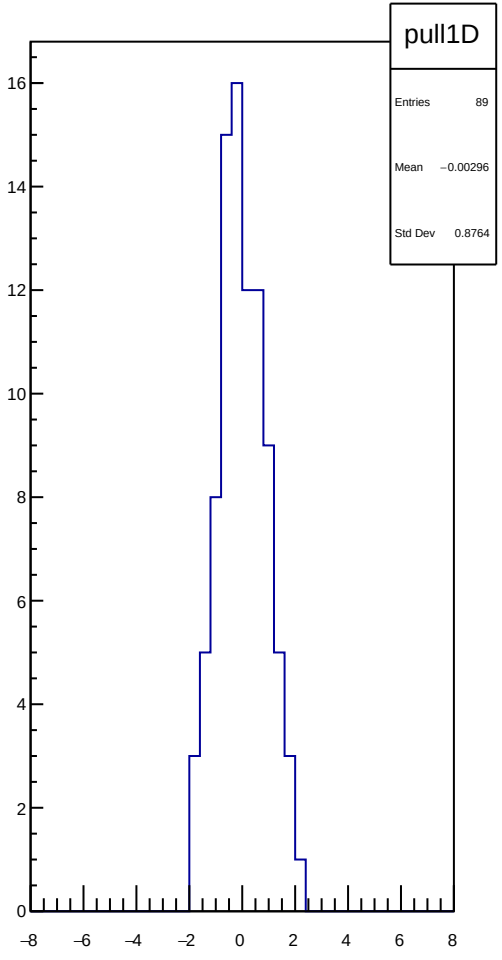

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 953.5 / 88
p0 20.79 ± 0.01573
22.5
22
21.5
21
20.5
20

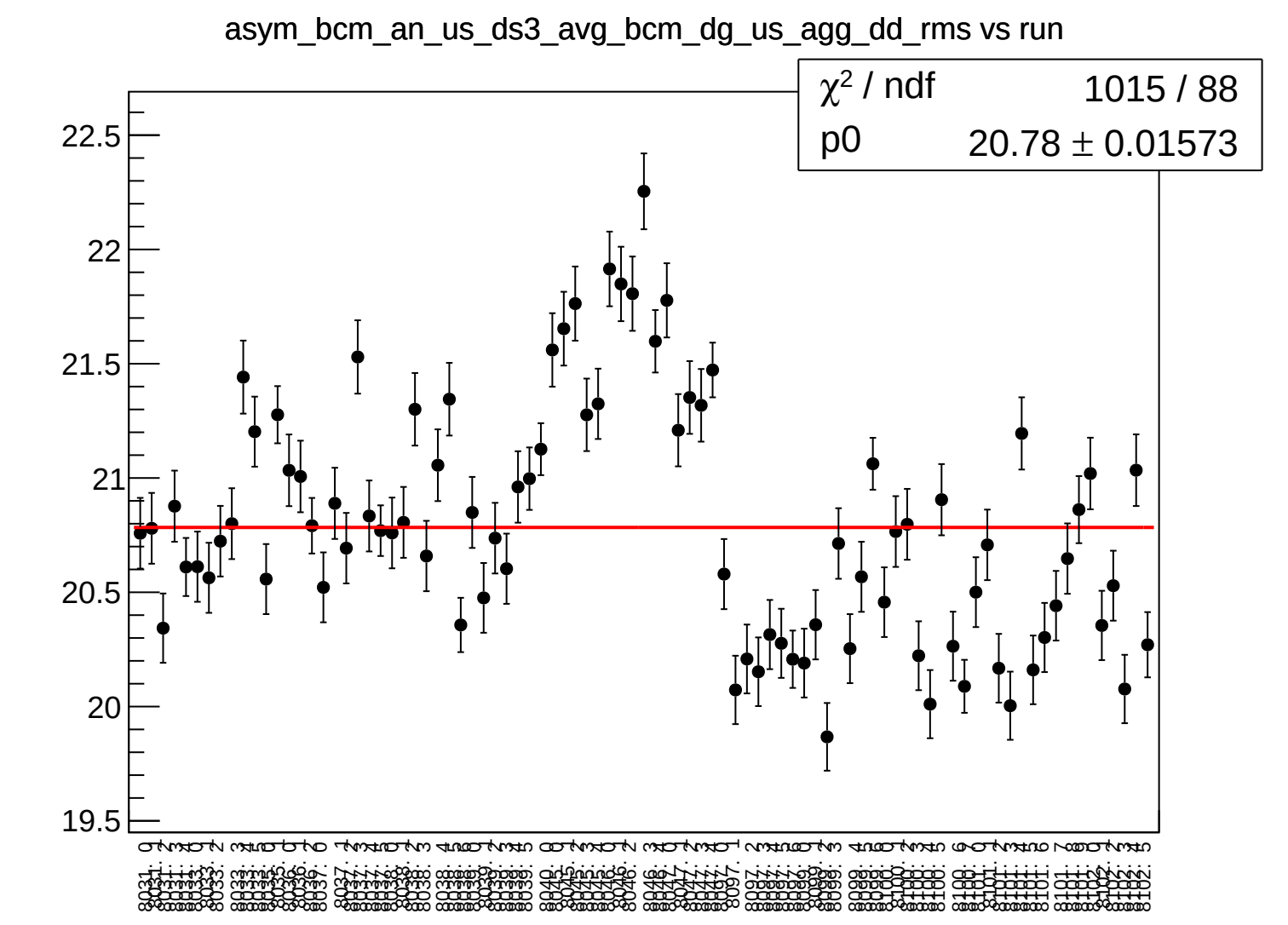

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 80.14 / 88
p0 23.17 ± 16.1
pull
Entries 89
Mean −87.04
Std Dev 0

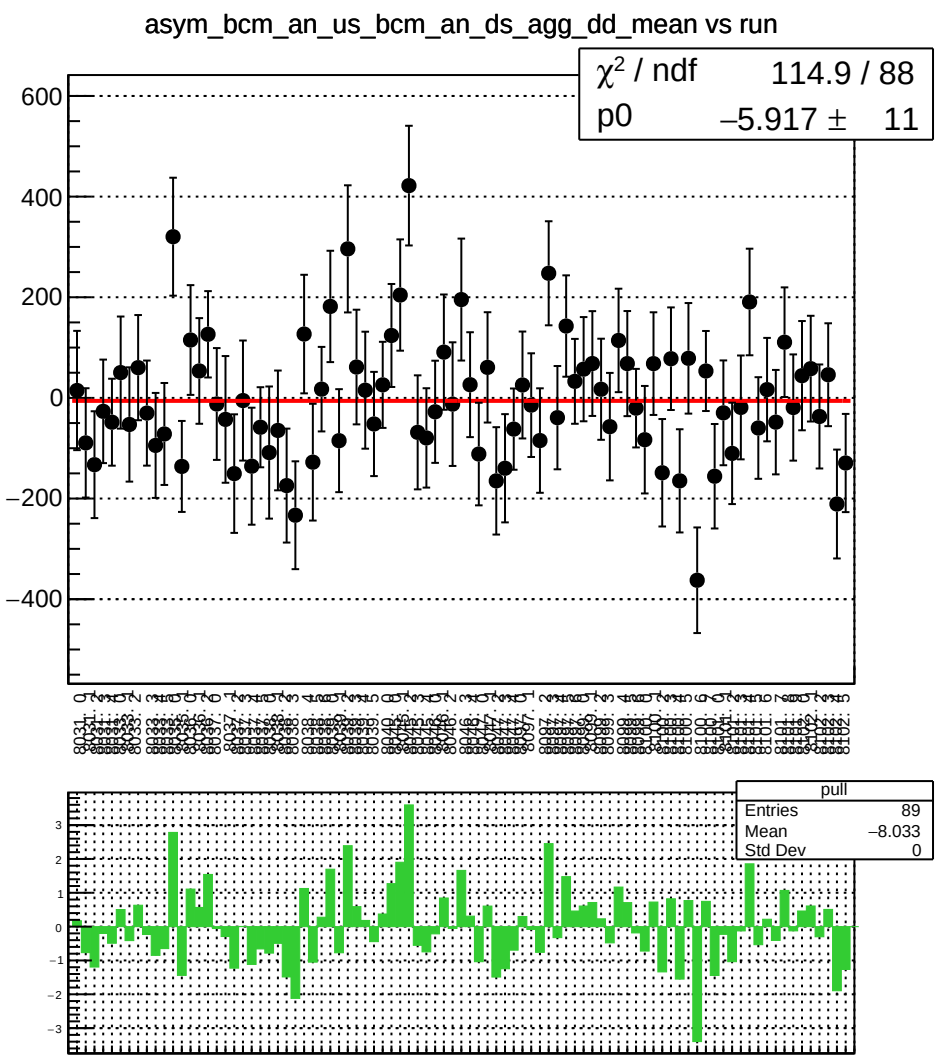

pull1D
Entries 89
Mean 0.006449
Std Dev 0.9489

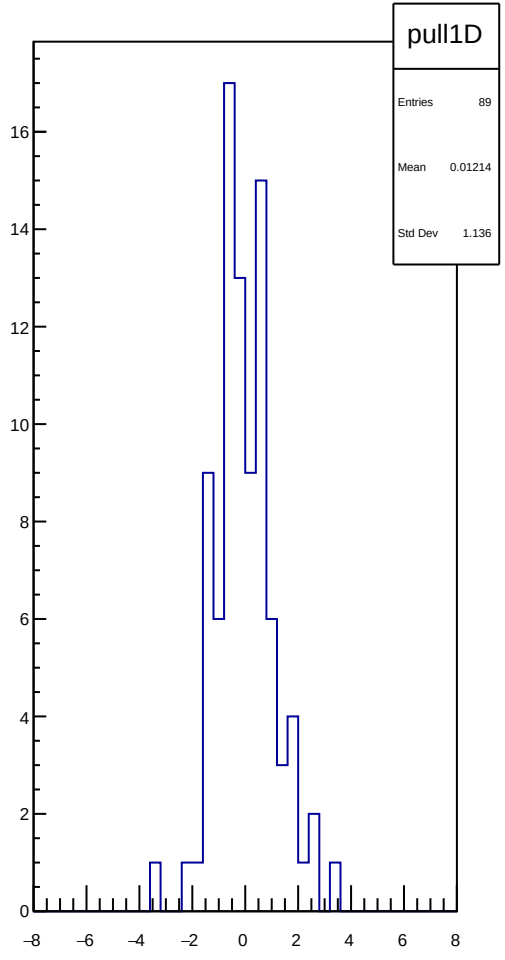

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2140 / 88
p0 15.04 ± 0.01138
17
16.5
16
15.5
15
14.5
14

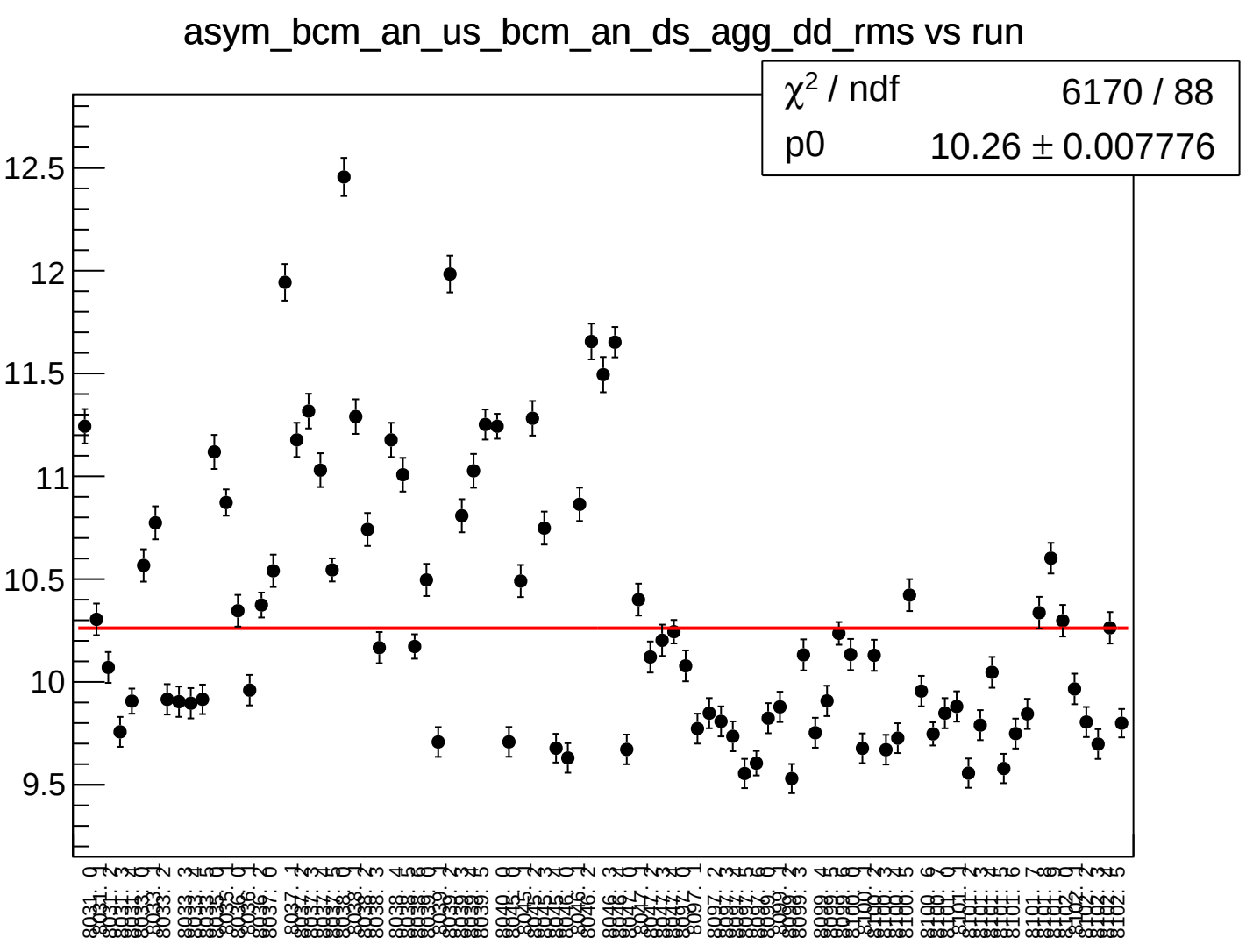

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 68.37 / 88
p0 7.828 ± 22.24
800
600
400
200
0
−200
−400
−600
pull
Entries 89
Mean −1713
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

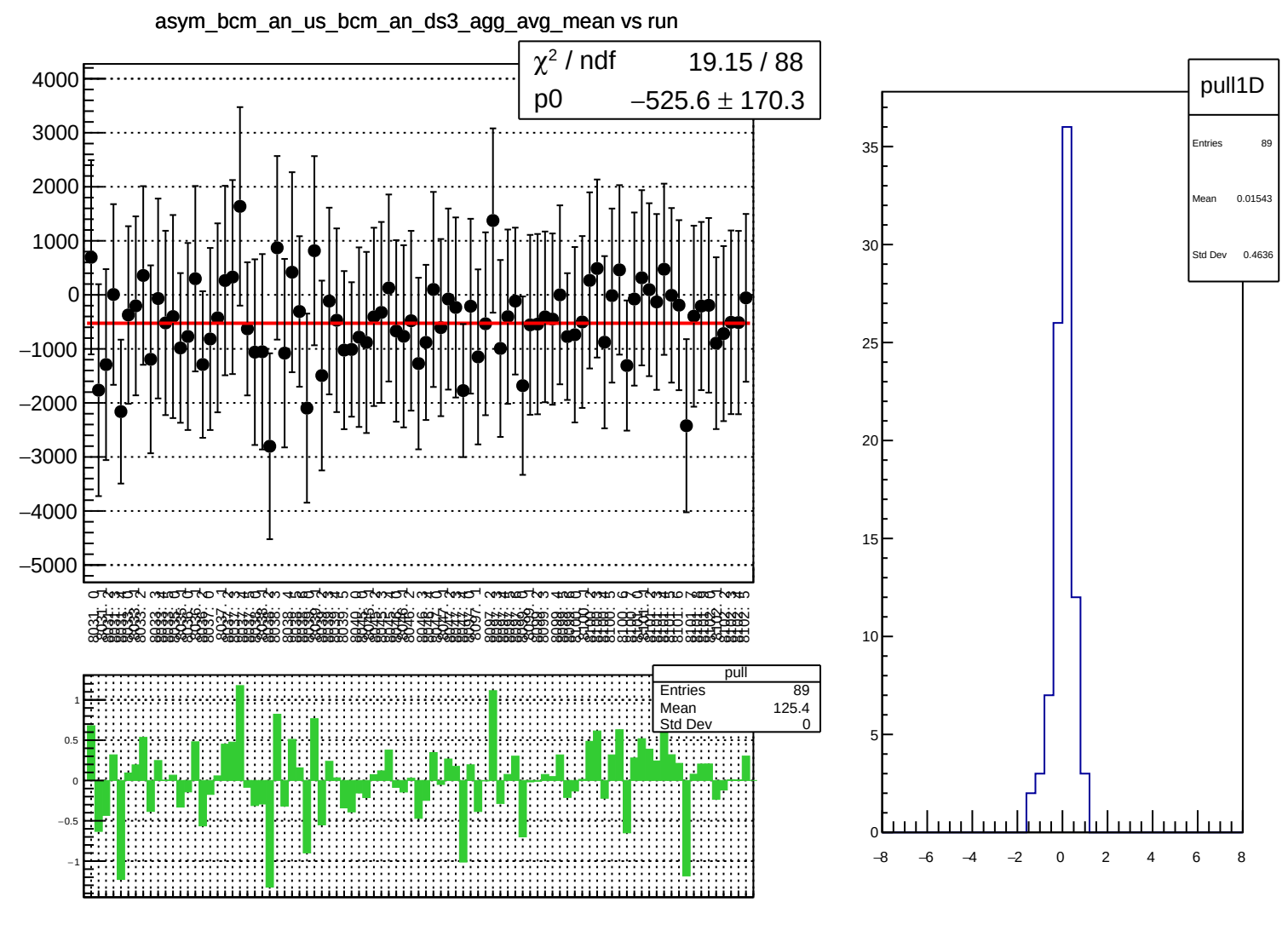

pull1D
Entries 89
Mean −0.00296
Std Dev 0.8764
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

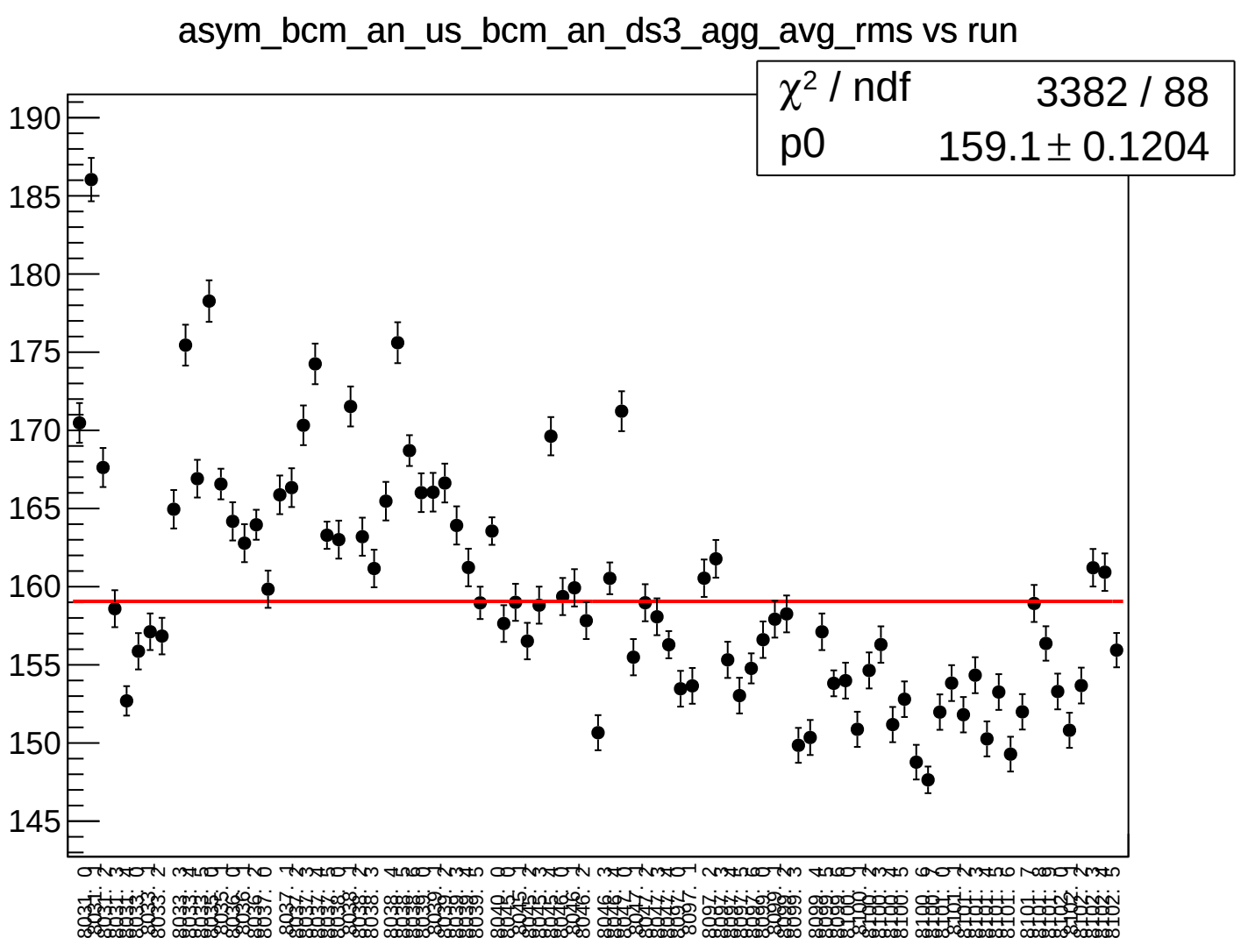

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1015 / 88
p0 20.78 ± 0.01573
22.5
22
21.5
21
20.5
20
19.5

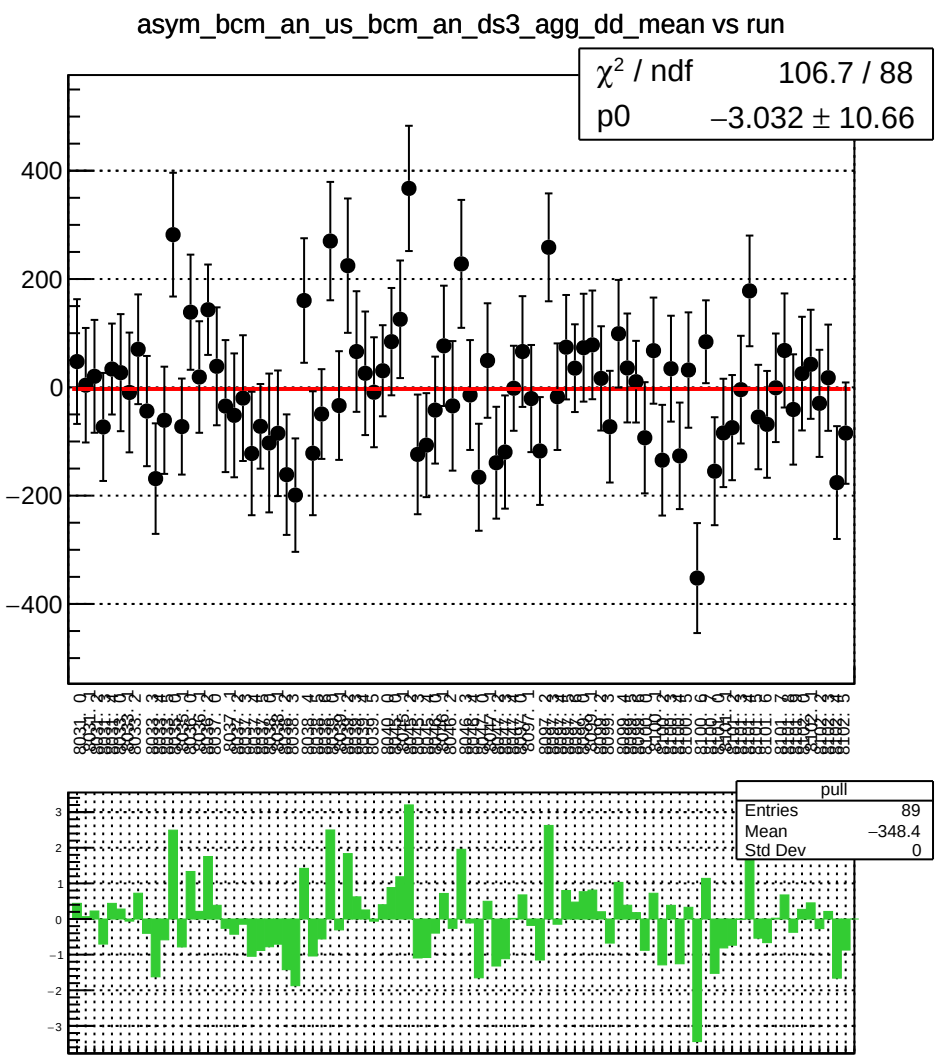

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 114.9 / 88
p0 −5.917 ± 11
600
400
200
0
−200
−400
pull
Entries 89
Mean −8.033
Std Dev 0
3
2
1
0
−1
−2
−3

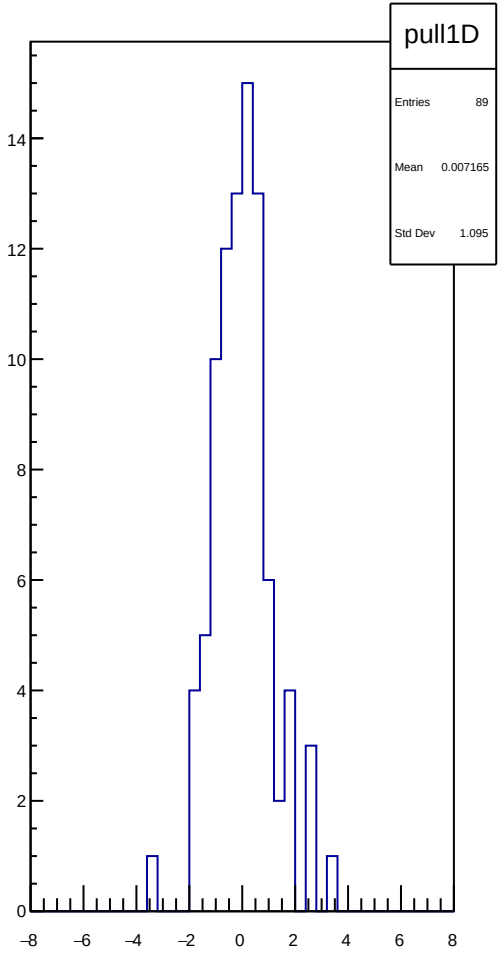

pull1D
Entries 89
Mean 0.01214
Std Dev 1.136
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

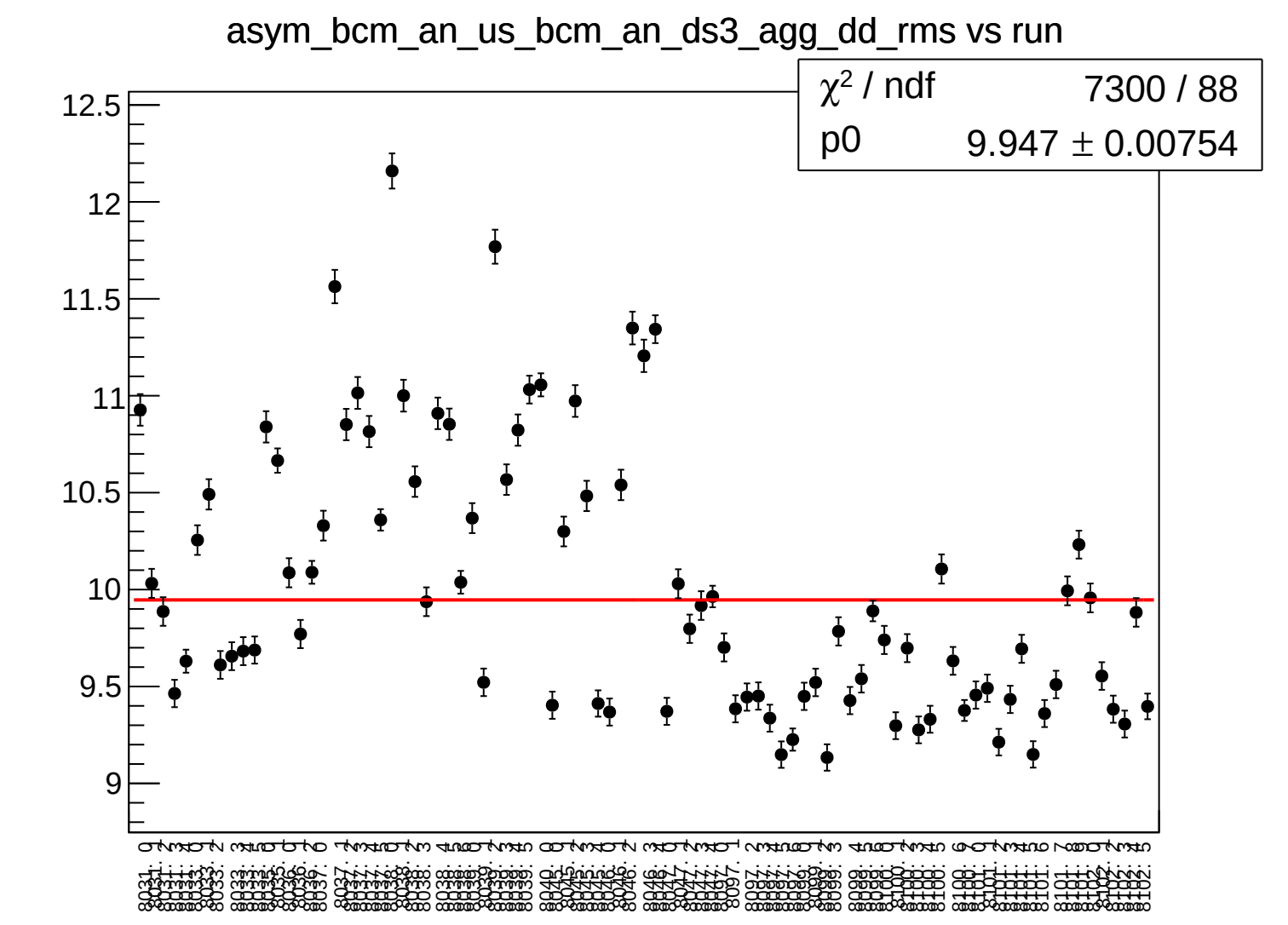

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 6170 / 88
p0 10.26 ± 0.007776
12.5
12
11.5
11
10.5
10
9.5

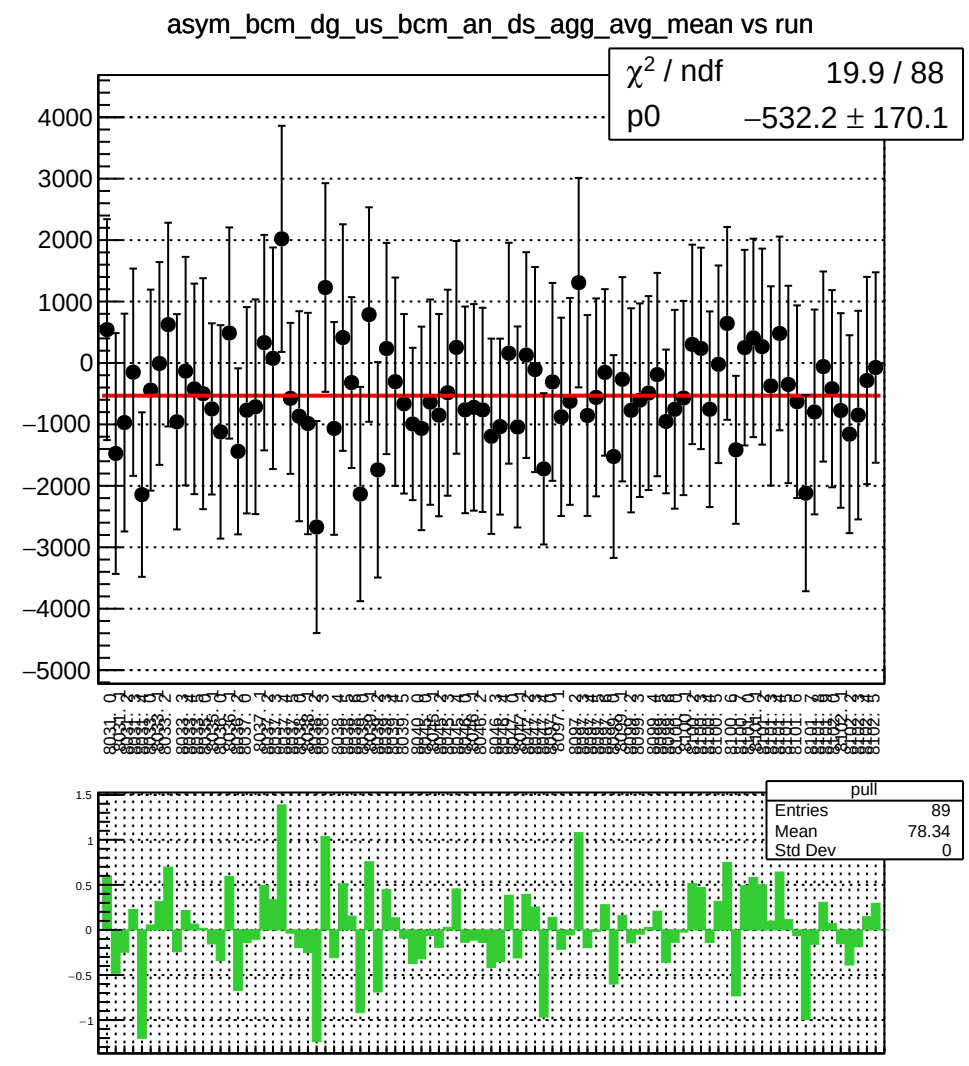

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 19.15 / 88
p0 −525.6 ± 170.3
pull
Entries 89
Mean 125.4
Std Dev 0
pull1D
Entries 89
Mean 0.01543
Std Dev 0.4636

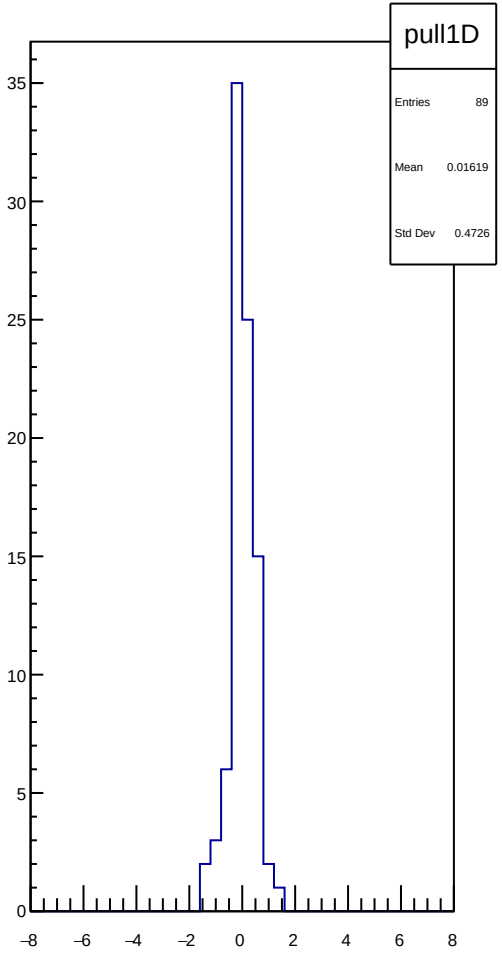

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 3382 / 88
p0 159.1 ± 0.1204
190
185
180
175
170
165
160
155
150
145

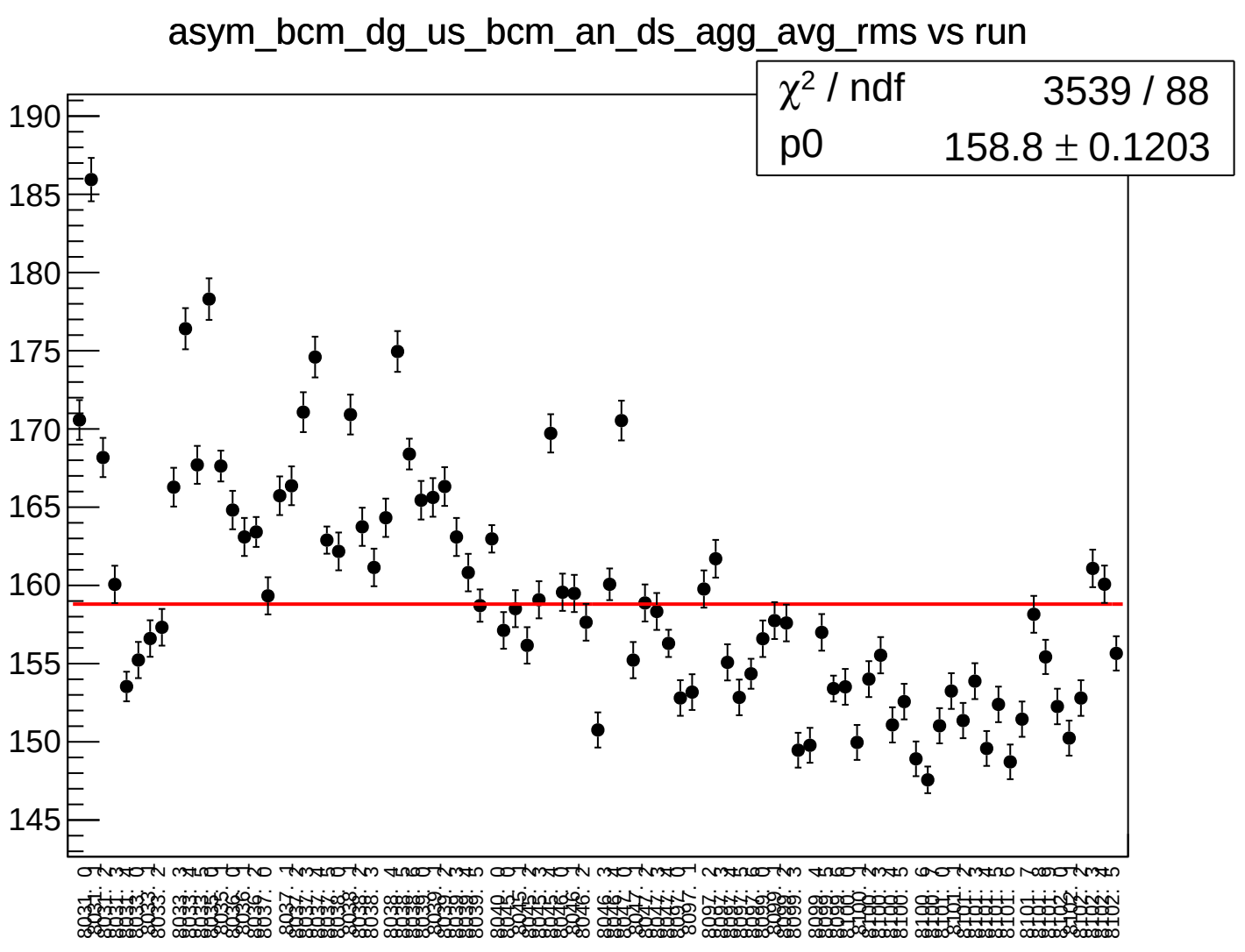

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 106.7 / 88
p0 −3.032 ± 10.66
400
200
0
−200
−400
pull
Entries 89
Mean −348.4
Std Dev 0
3
2
1
0
−1
−2
−3

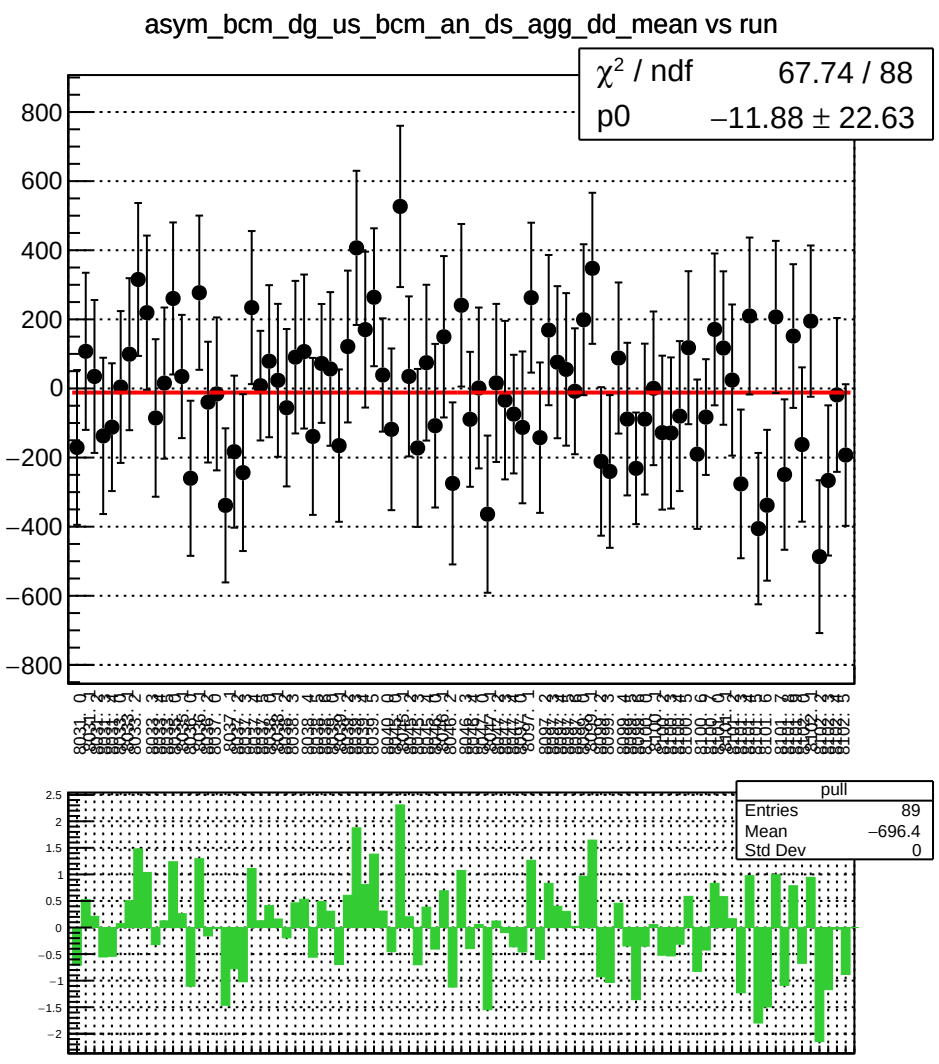

pull1D
Entries 89
Mean 0.007165
Std Dev 1.095
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

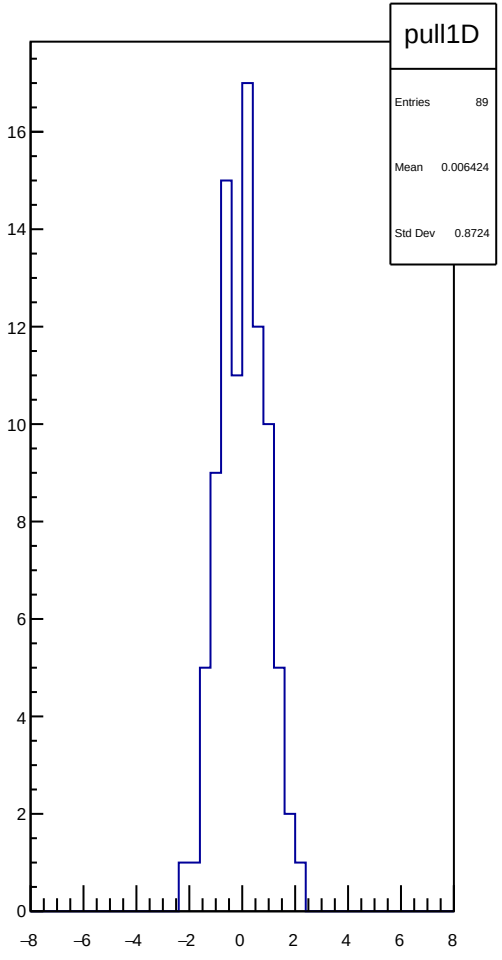

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 7300 / 88
p0 9.947 ± 0.00754
12.5
12
11.5
11
10.5
10
9.5
9

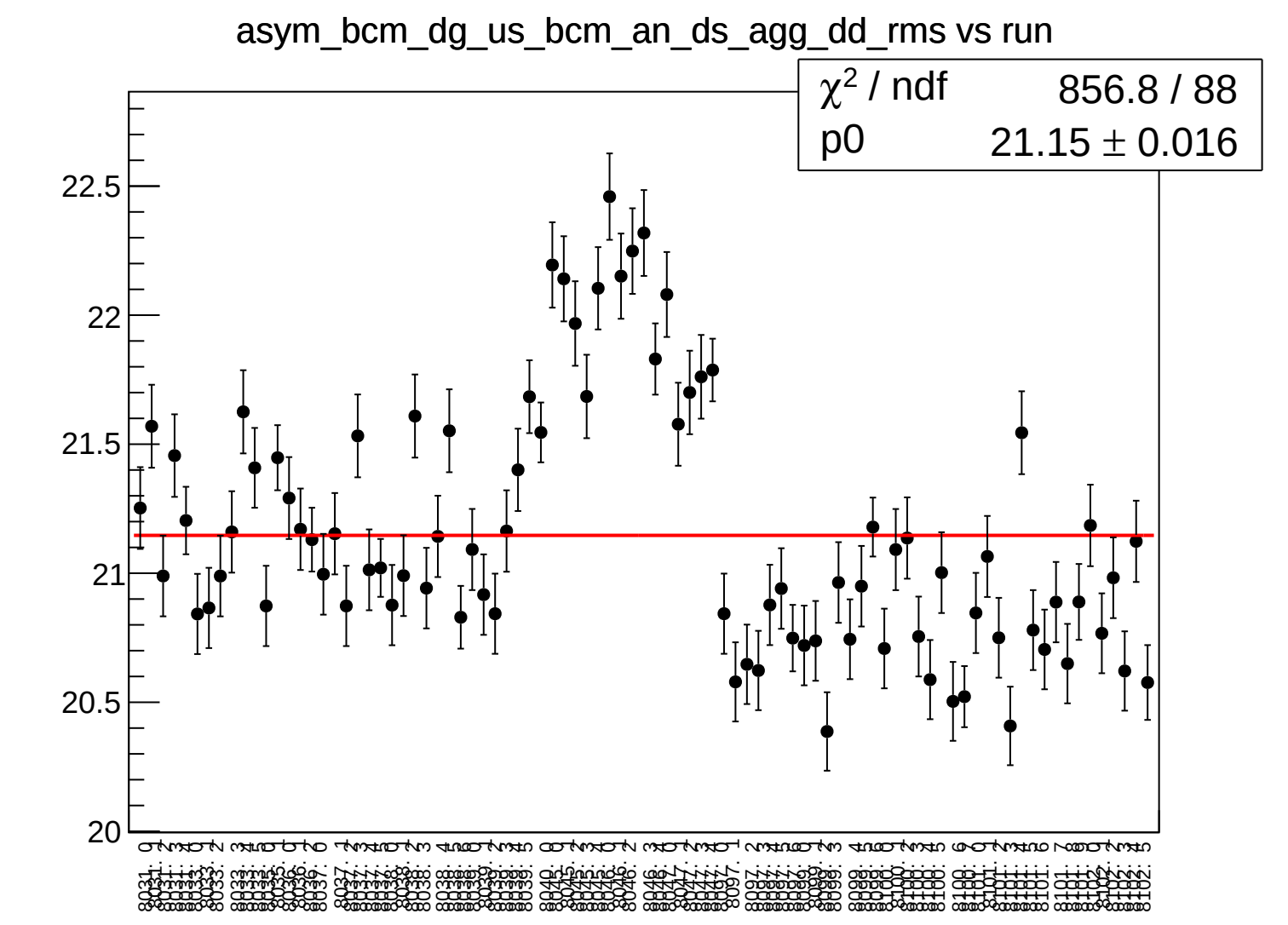

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 19.9 / 88
p0 −532.2 ± 170.1
pull
Entries 89
Mean 78.34
Std Dev 0

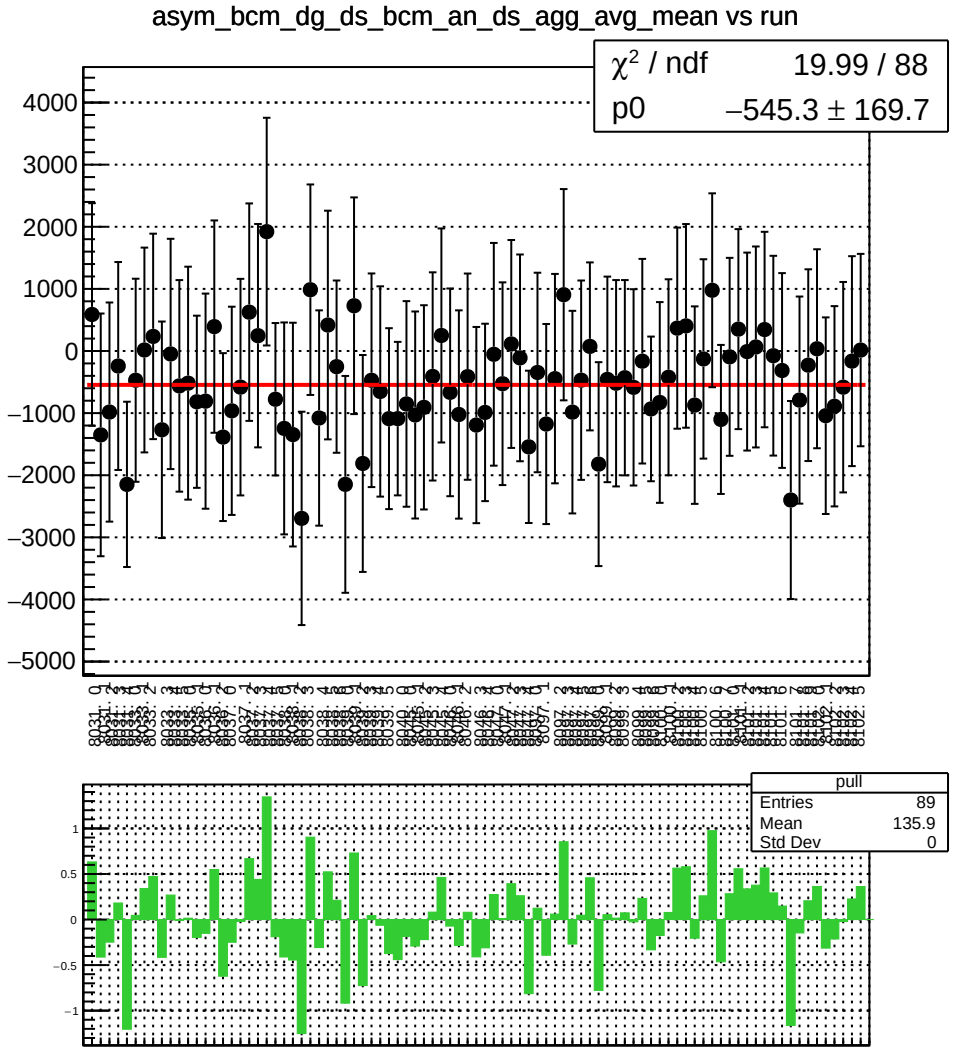

pull1D
Entries 89
Mean 0.01619
Std Dev 0.4726

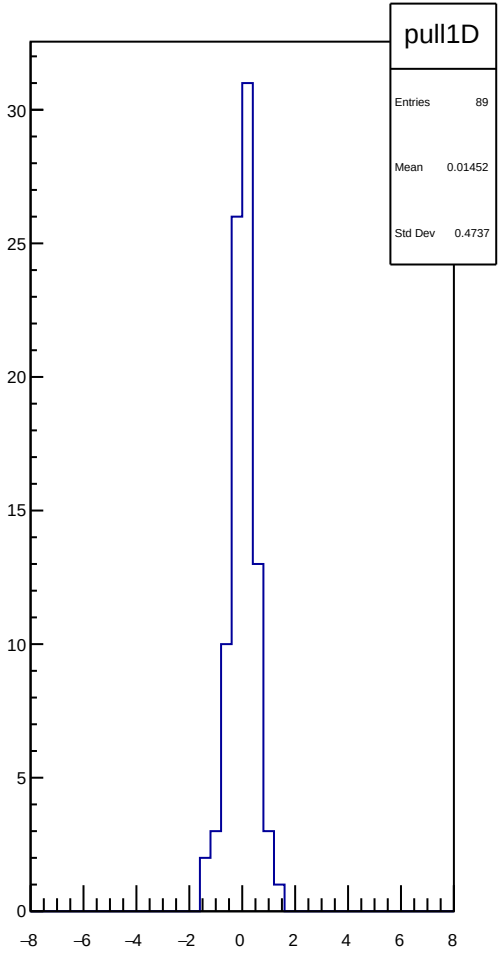

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3539 / 88
p0 158.8 ± 0.1203
190
185
180
175
170
165
160
155
150
145

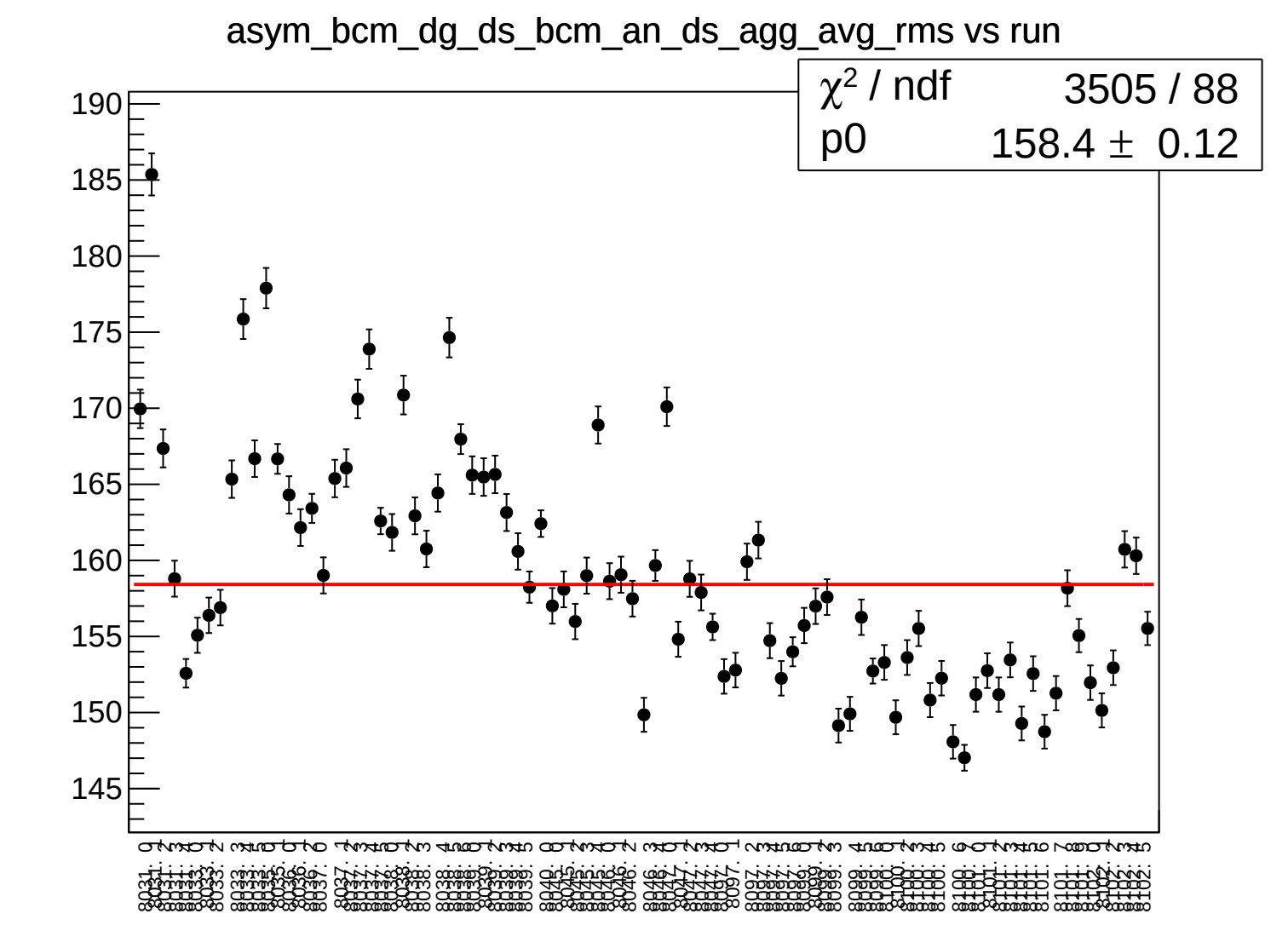

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 67.74 / 88
p0 −11.88 ± 22.63
pull
Entries 89
Mean −696.4
Std Dev 0

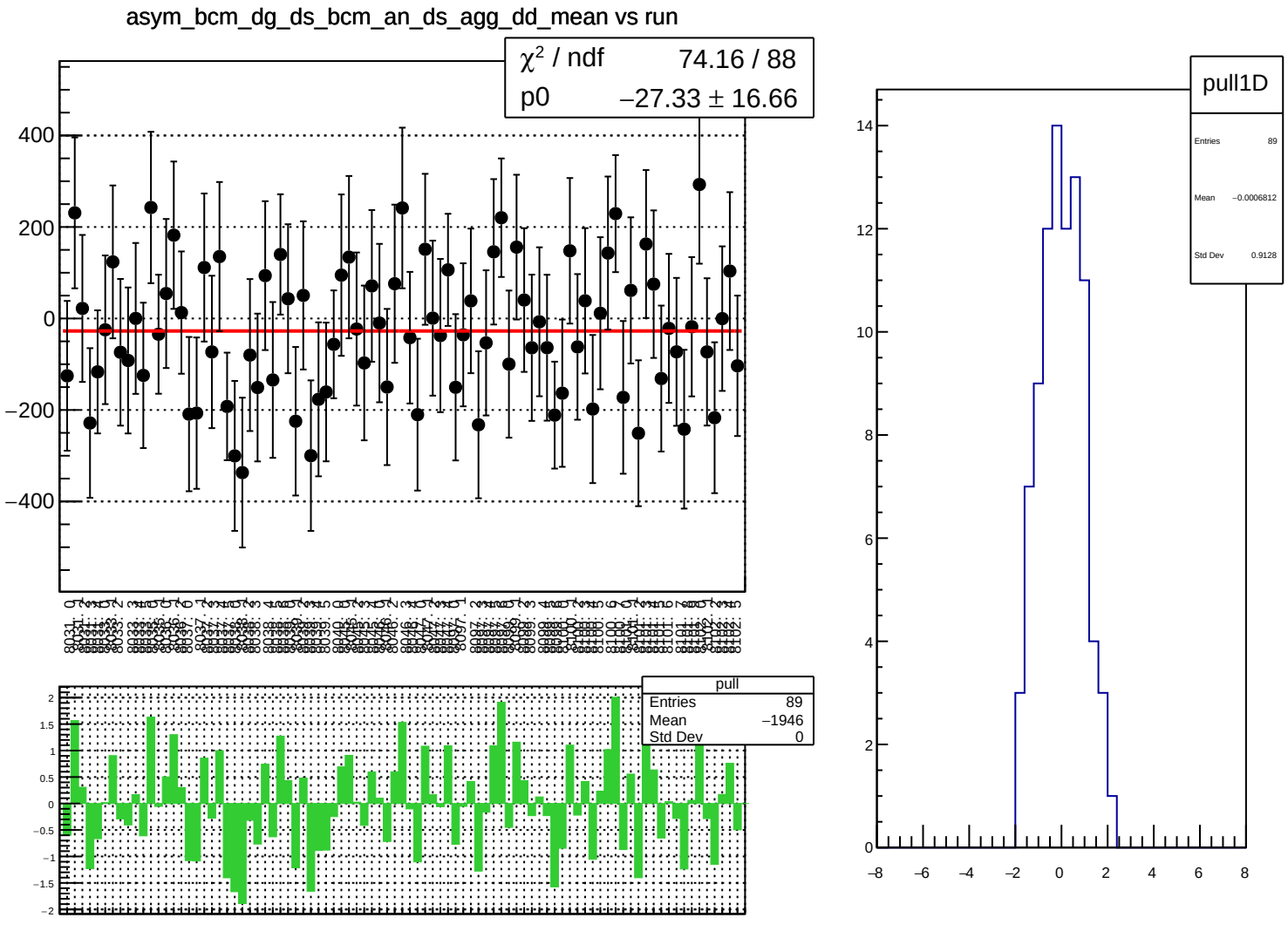

pull1D
Entries 89
Mean 0.006424
Std Dev 0.8724

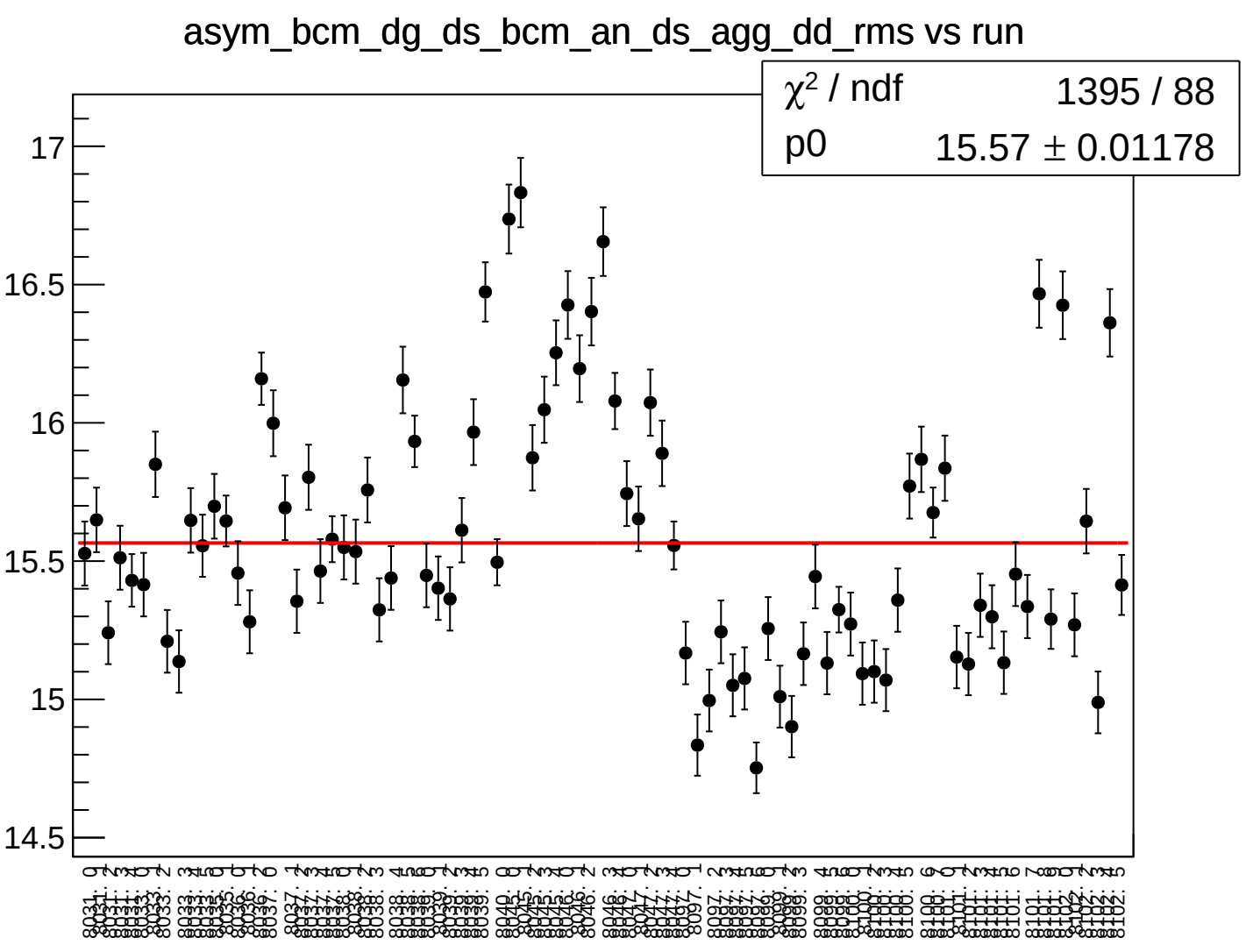

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 856.8 / 88
p0 21.15 ± 0.016
22.5
22
21.5
21
20.5
20

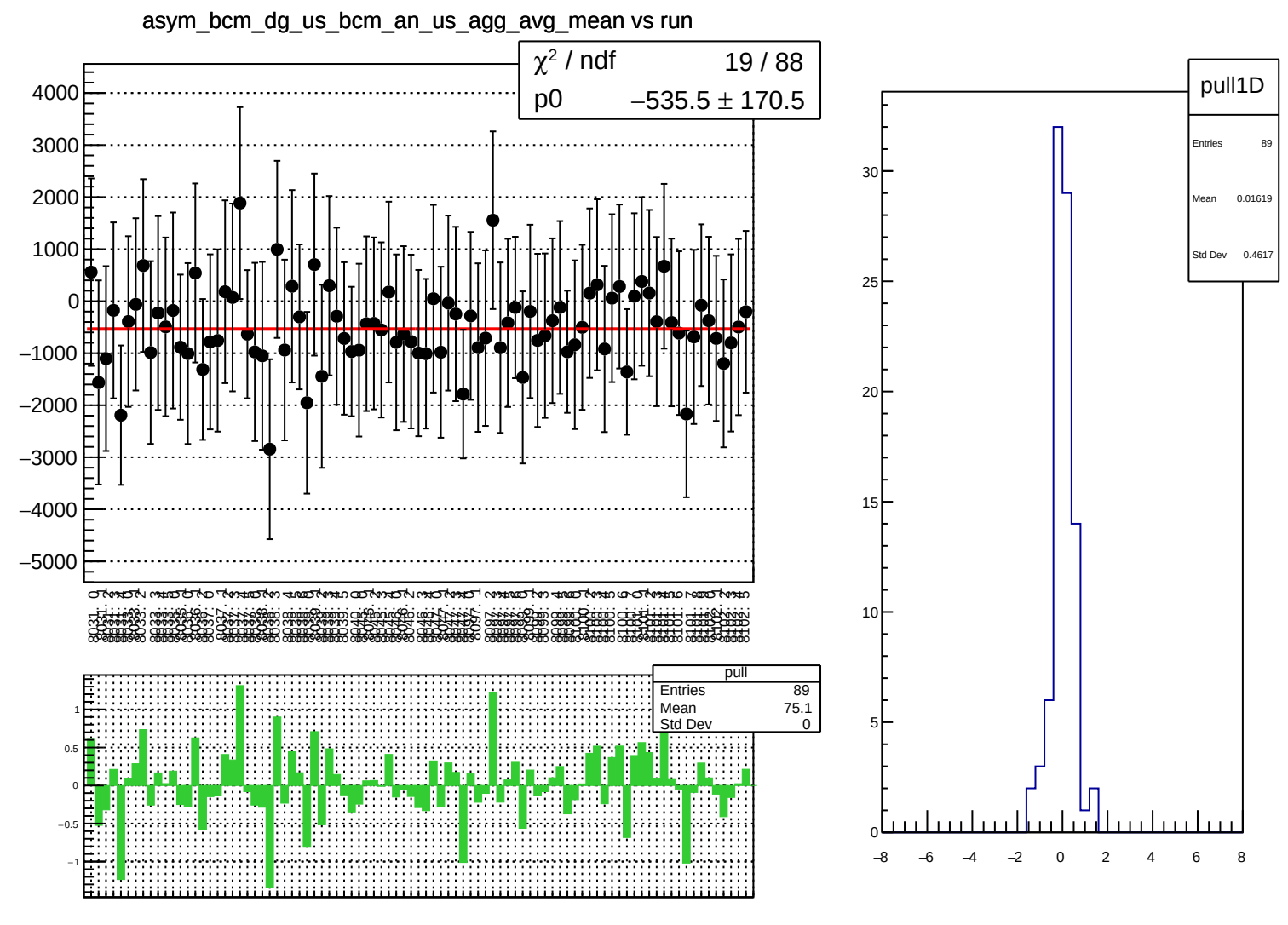

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 19.99 / 88
p0 −545.3 ± 169.7
pull
Entries 89
Mean 135.9
Std Dev 0

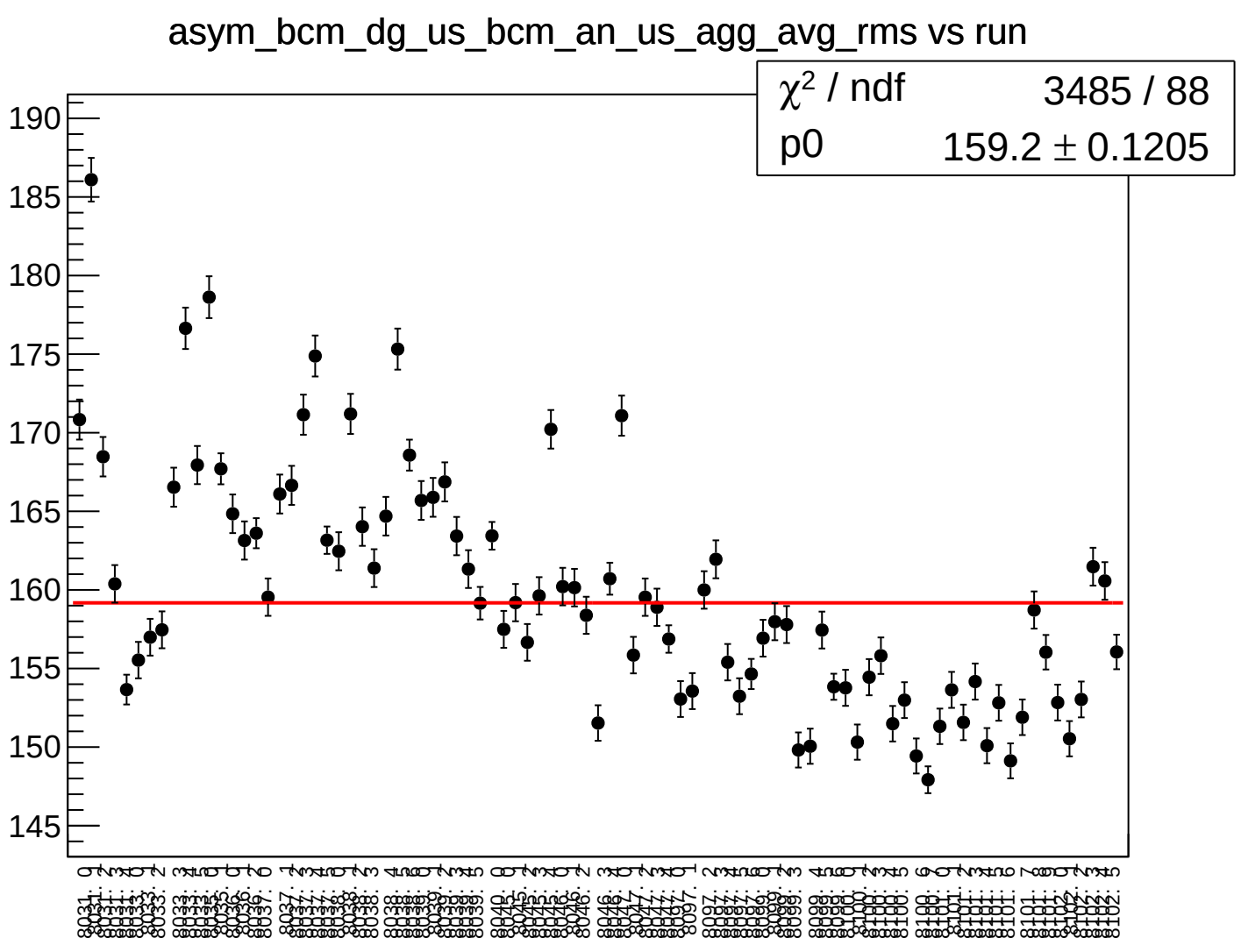

pull1D
Entries 89
Mean 0.01452
Std Dev 0.4737

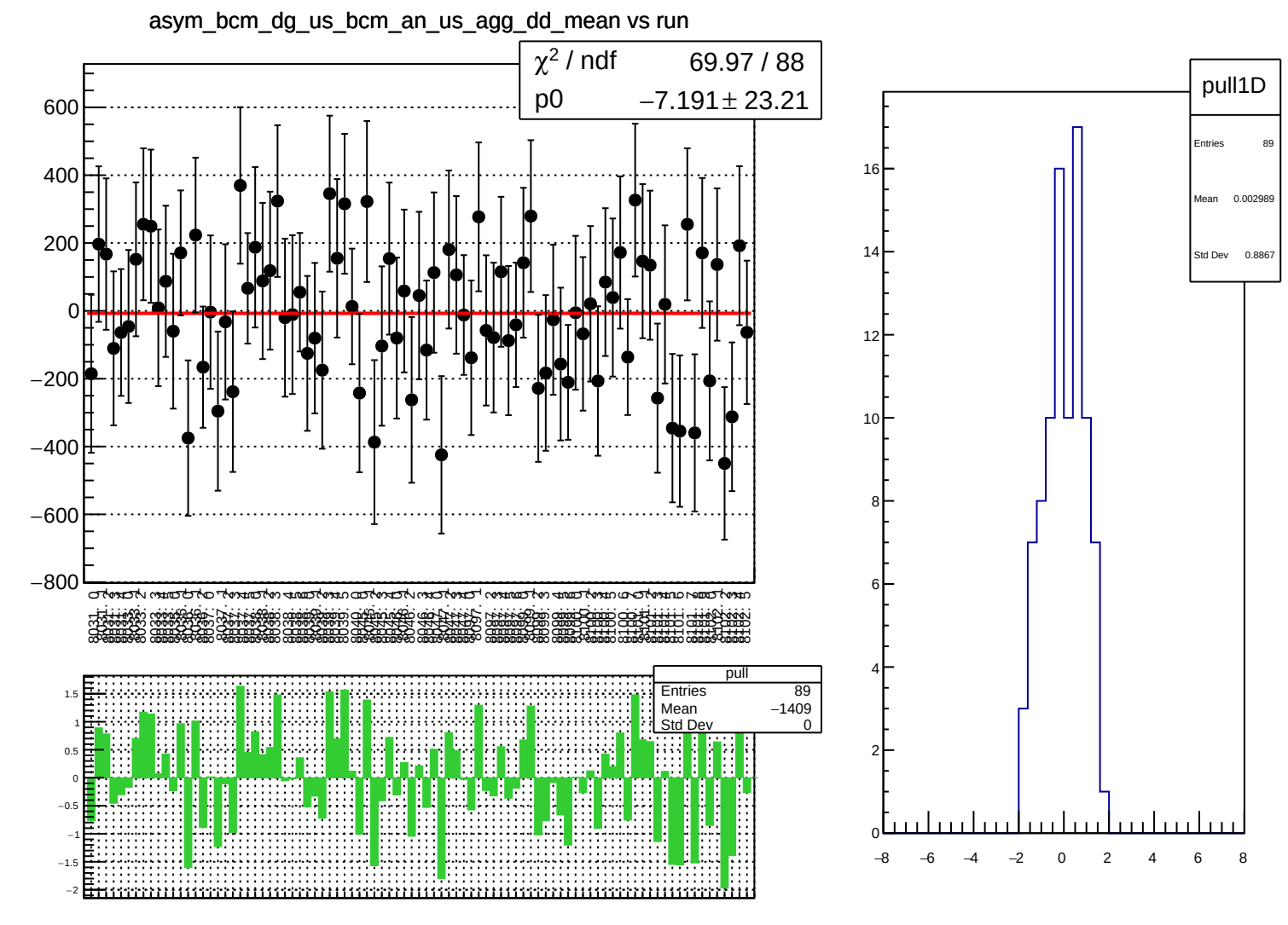

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3505 / 88
p0 158.4 ± 0.12
190
185
180
175
170
165
160
155
150
145

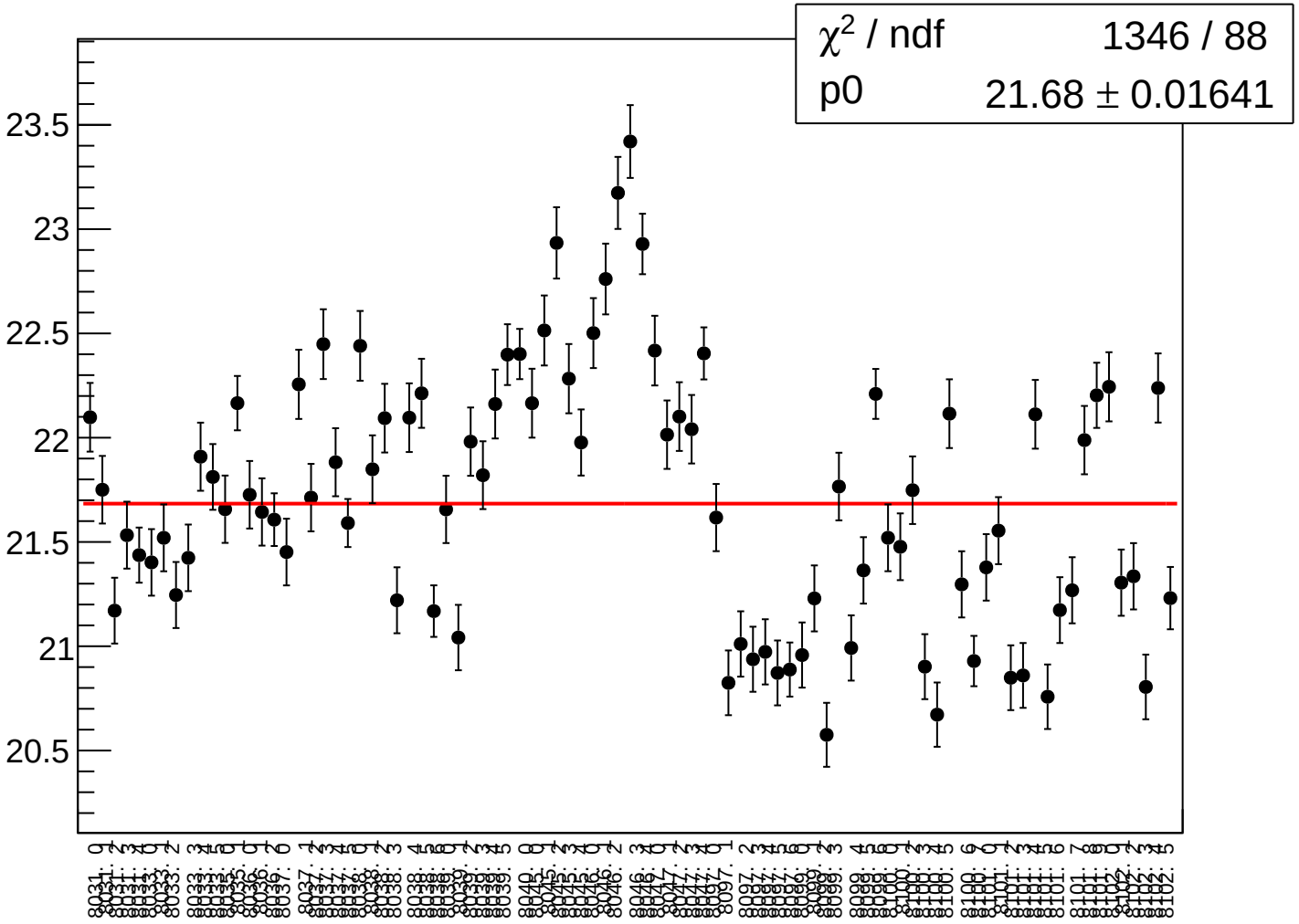

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 74.16 / 88
p0 −27.33 ± 16.66
400
200
0
−200
−400
pull
Entries 89
Mean −1946
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.0006812
Std Dev 0.9128
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

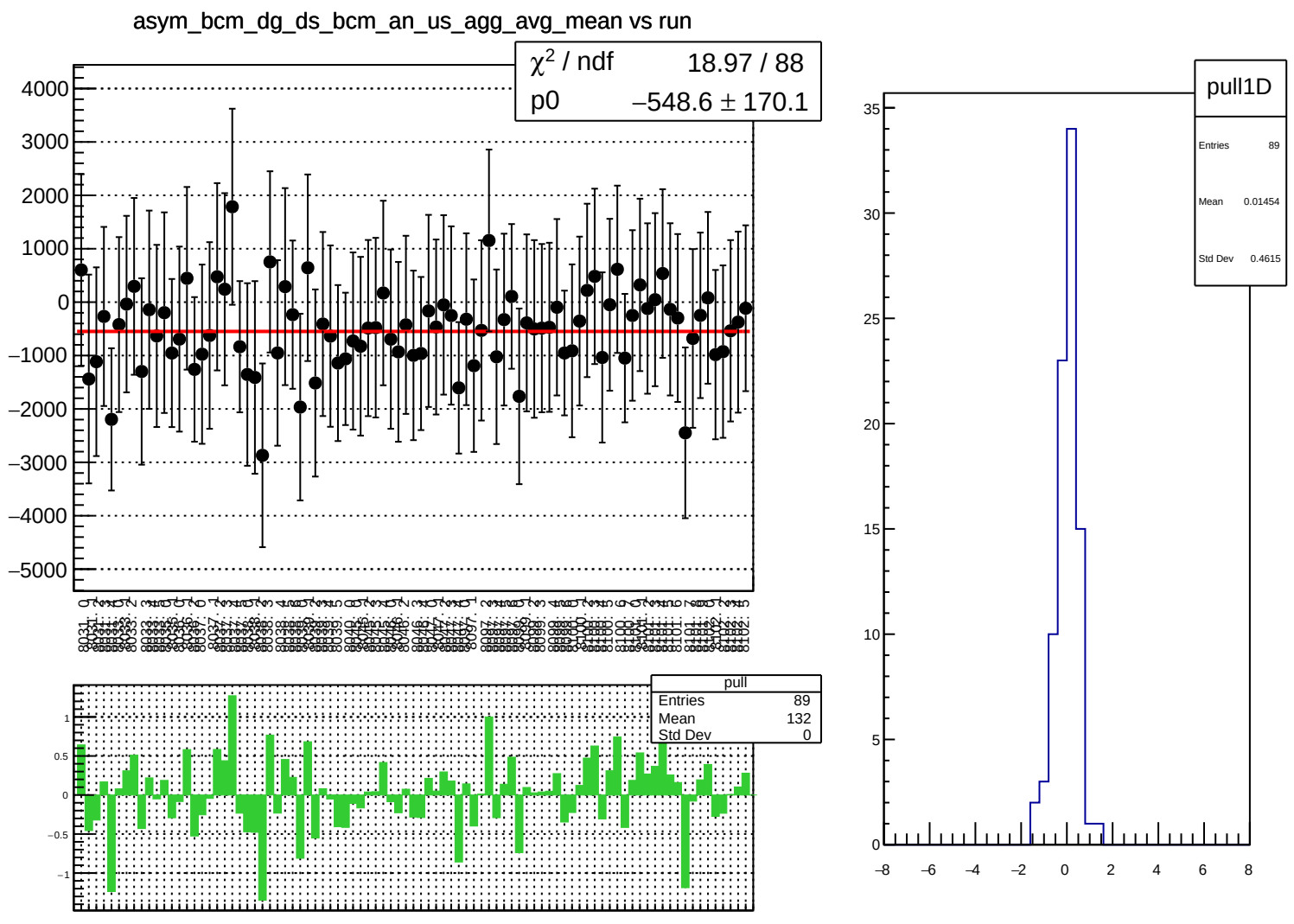

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1395 / 88
p0 15.57 ± 0.01178
17
16.5
16
15.5
15
14.5

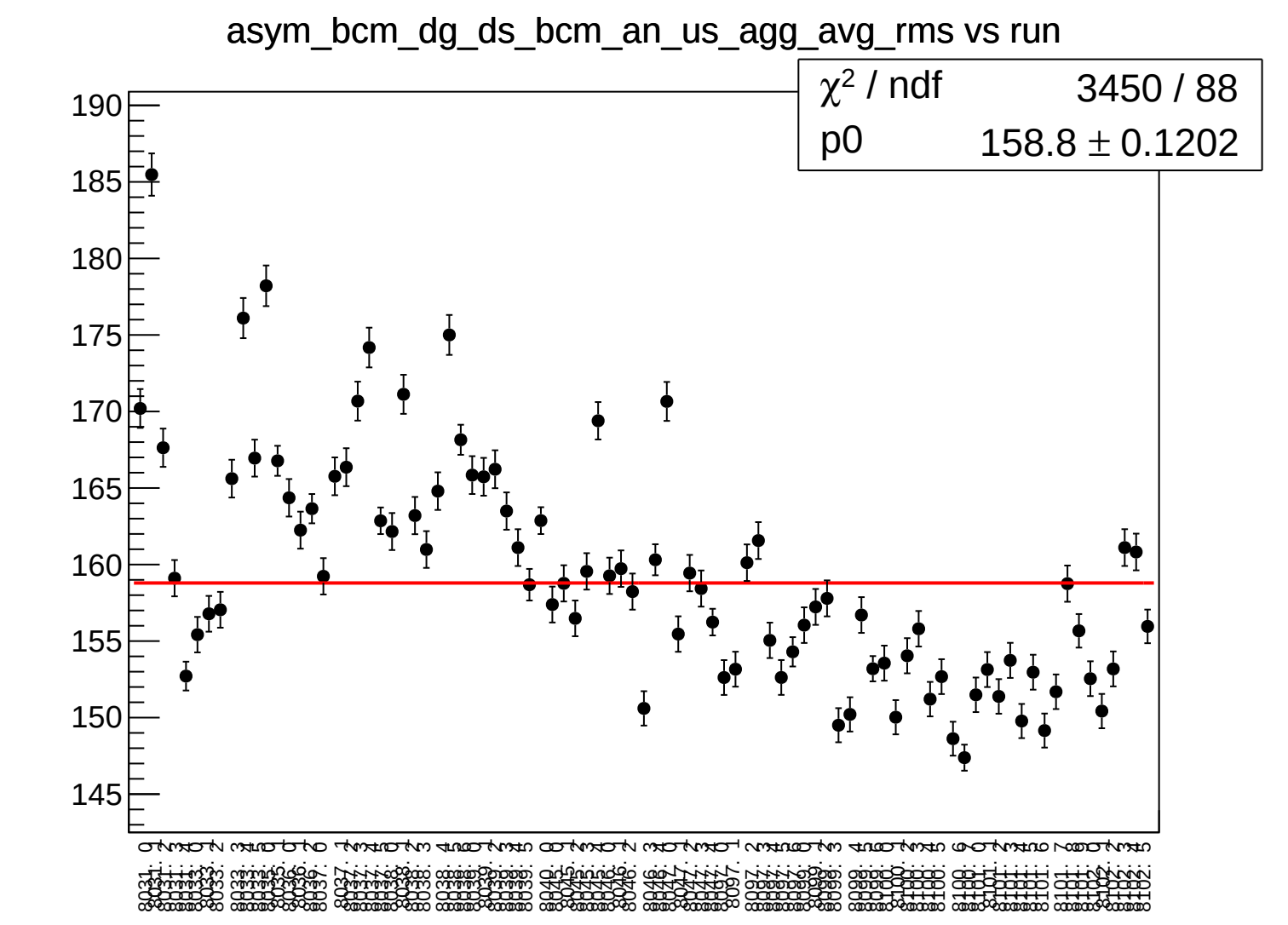

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 19 / 88
p0 −535.5 ± 170.5
pull
Entries 89
Mean 75.1
Std Dev 0
pull1D
Entries 89
Mean 0.01619
Std Dev 0.4617

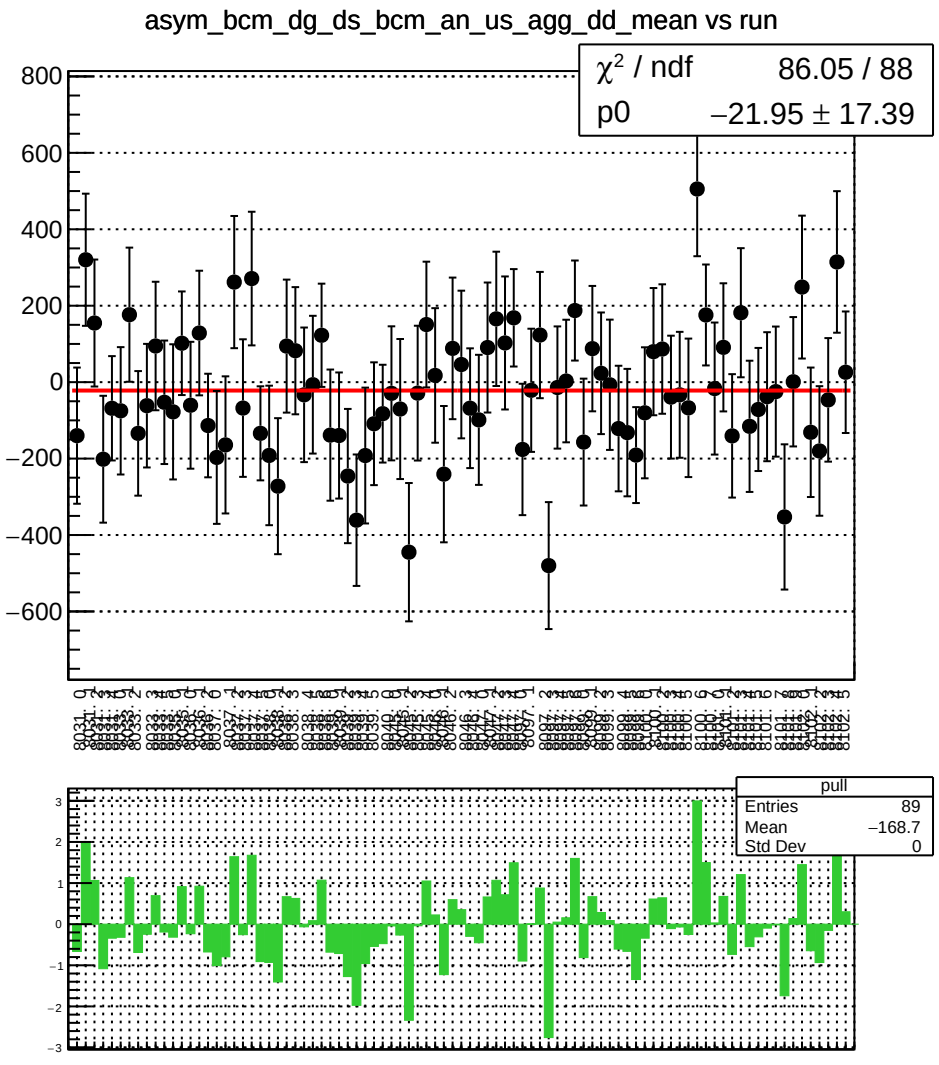

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3485 / 88
p0 159.2 ± 0.1205
190
185
180
175
170
165
160
155
150
145

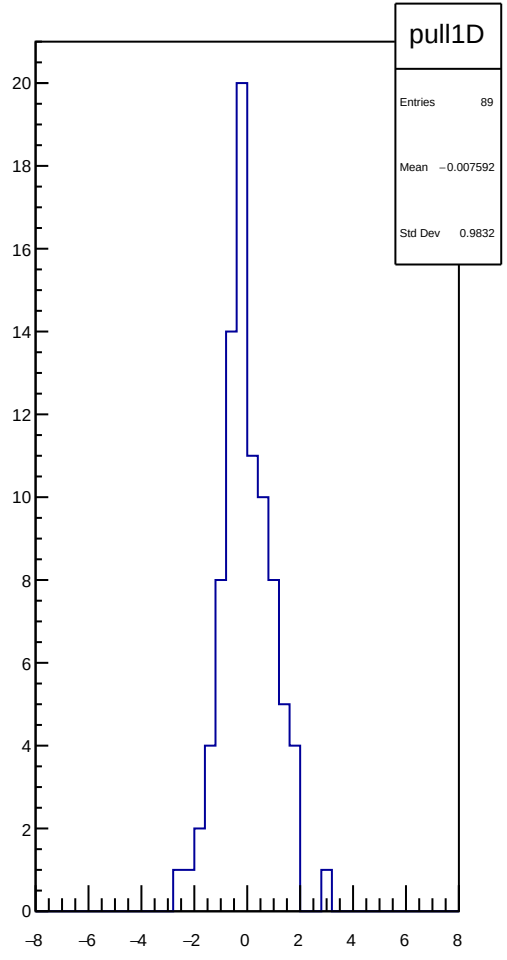

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 69.97 / 88
p0 −7.191 ± 23.21
pull
Entries 89
Mean −1409
Std Dev 0
pull1D
Entries 89
Mean 0.002989
Std Dev 0.8867

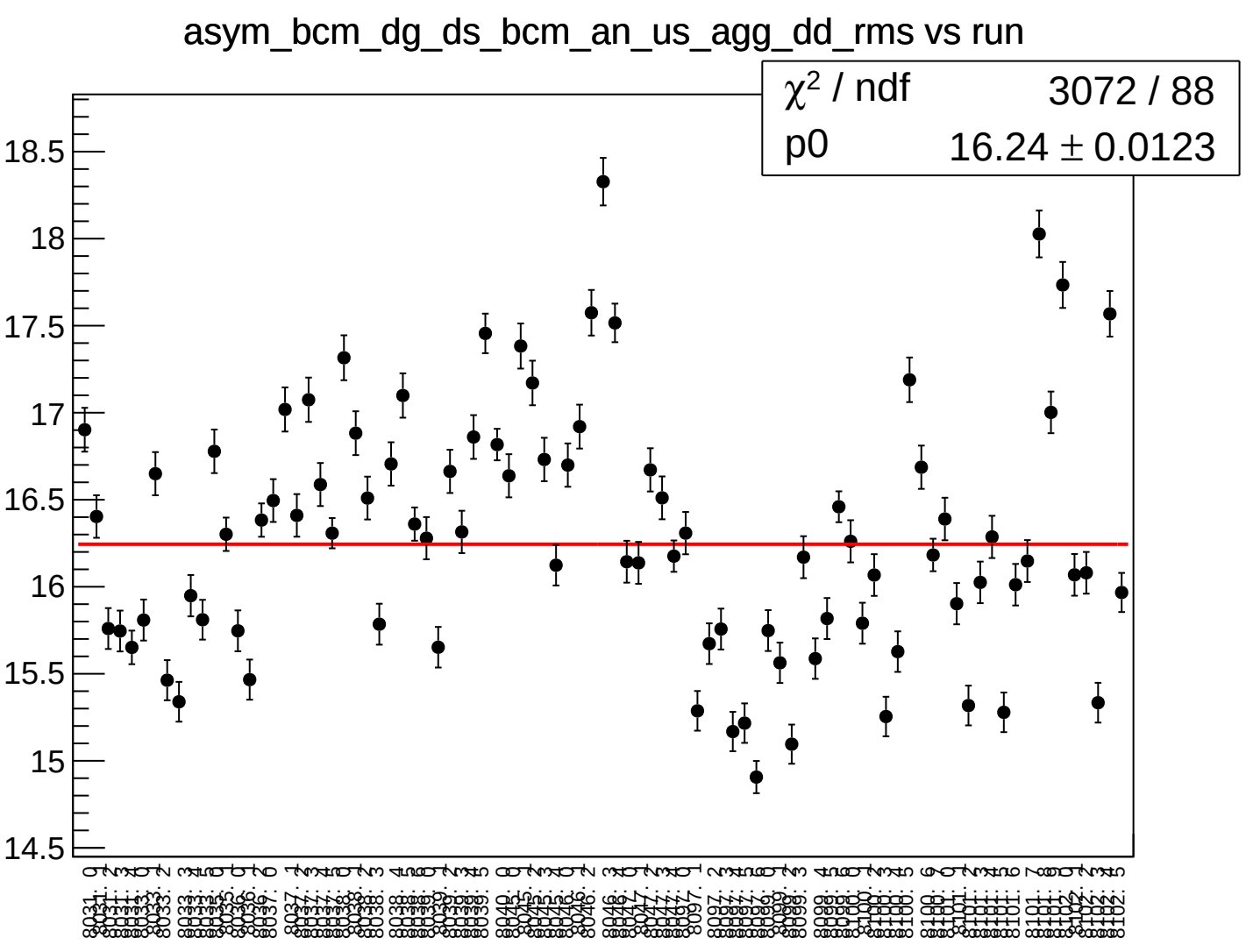

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1346 / 88
p0 21.68 ± 0.01641
23.5
23
22.5
22
21.5
21
20.5

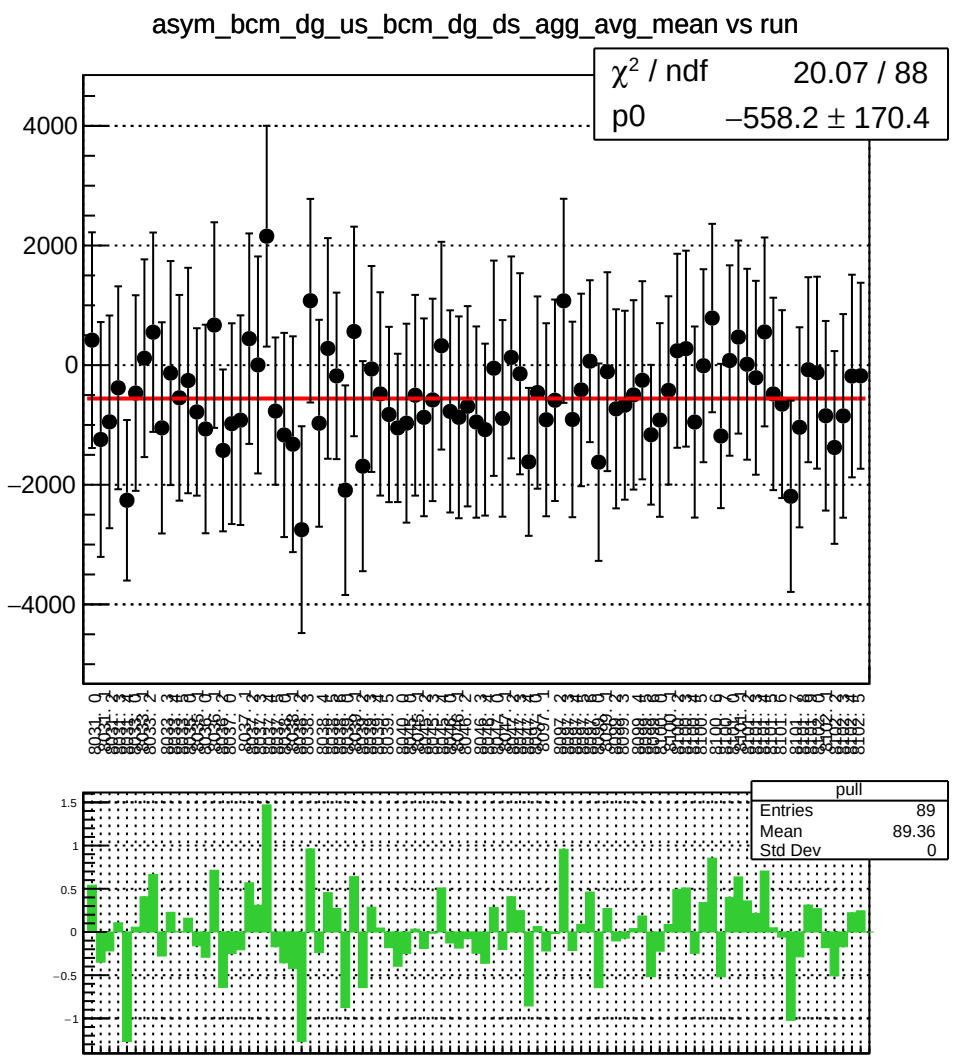

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 18.97 / 88
p0 −548.6 ± 170.1
pull
Entries 89
Mean 132
Std Dev 0
pull1D
Entries 89
Mean 0.01454
Std Dev 0.4615

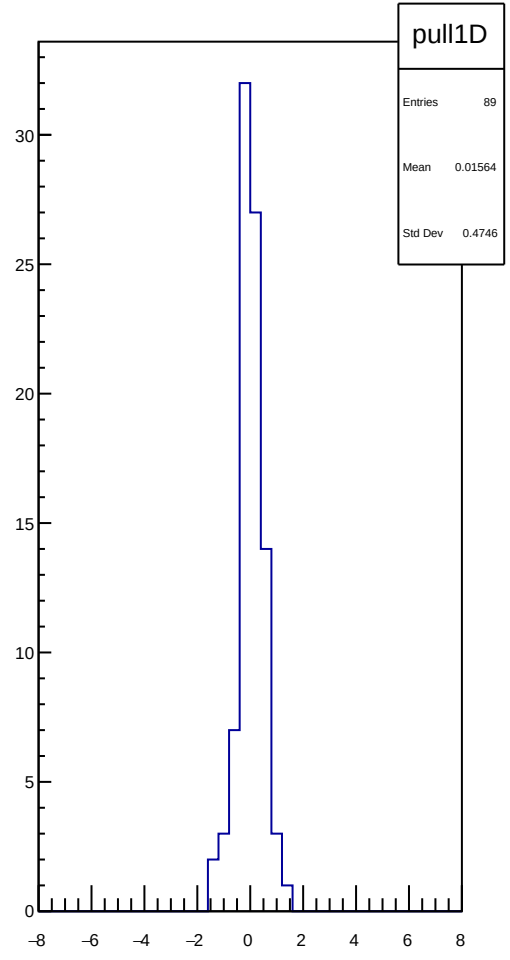

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3450 / 88
p0 158.8 ± 0.1202
190
185
180
175
170
165
160
155
150
145

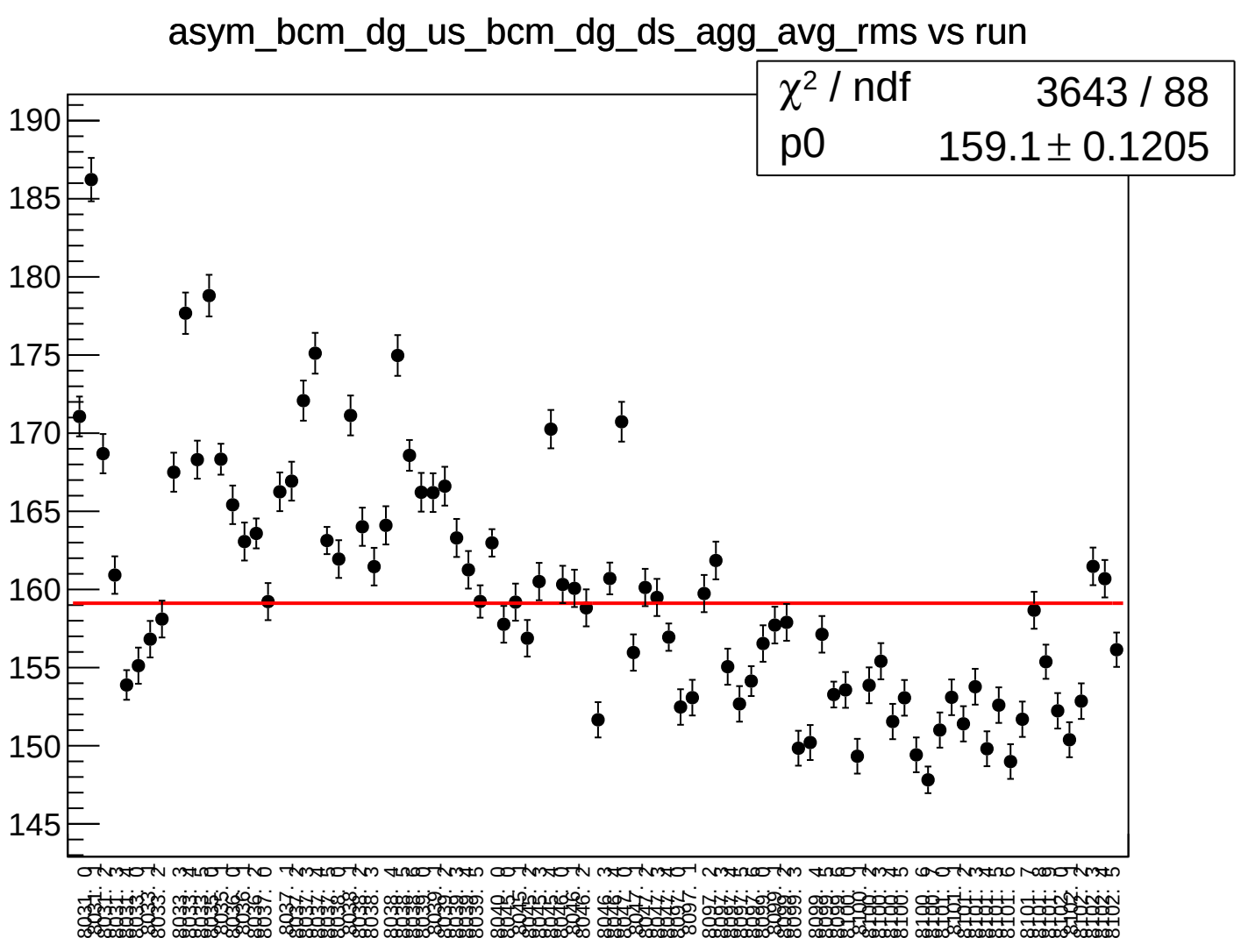

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 86.05 / 88
p0 −21.95 ± 17.39
pull
Entries 89
Mean −168.7
Std Dev 0

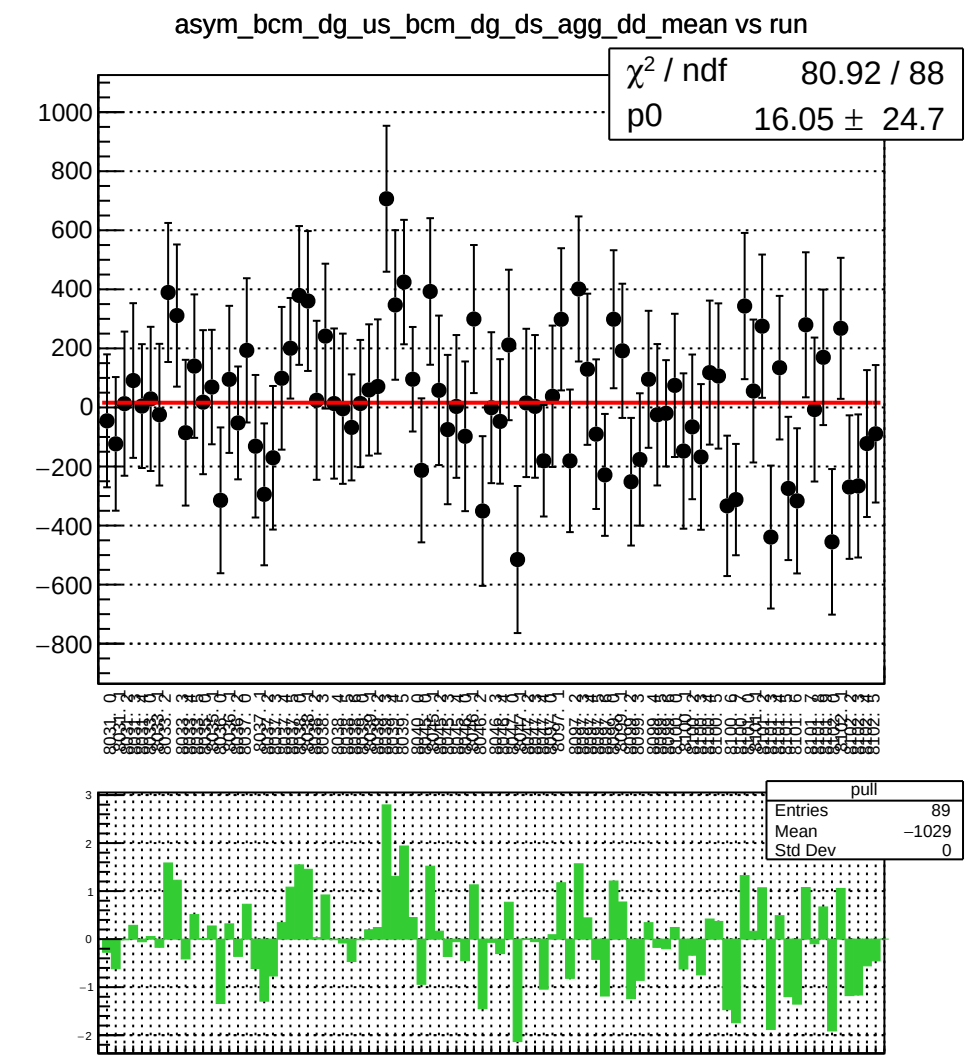

pull1D
Entries 89
Mean −0.007592
Std Dev 0.9832

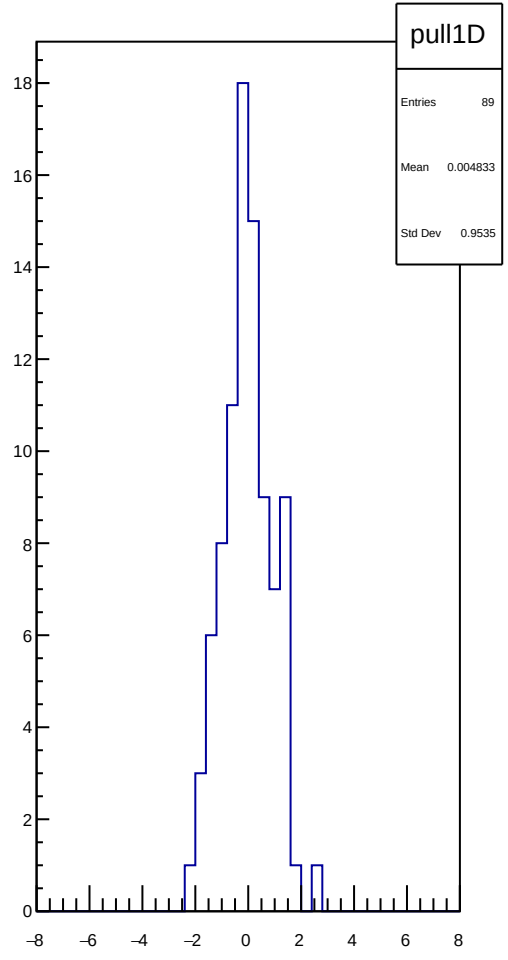

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 3072 / 88
p0 16.24 ± 0.0123
18.5
18
17.5
17
16.5
16
15.5
15
14.5

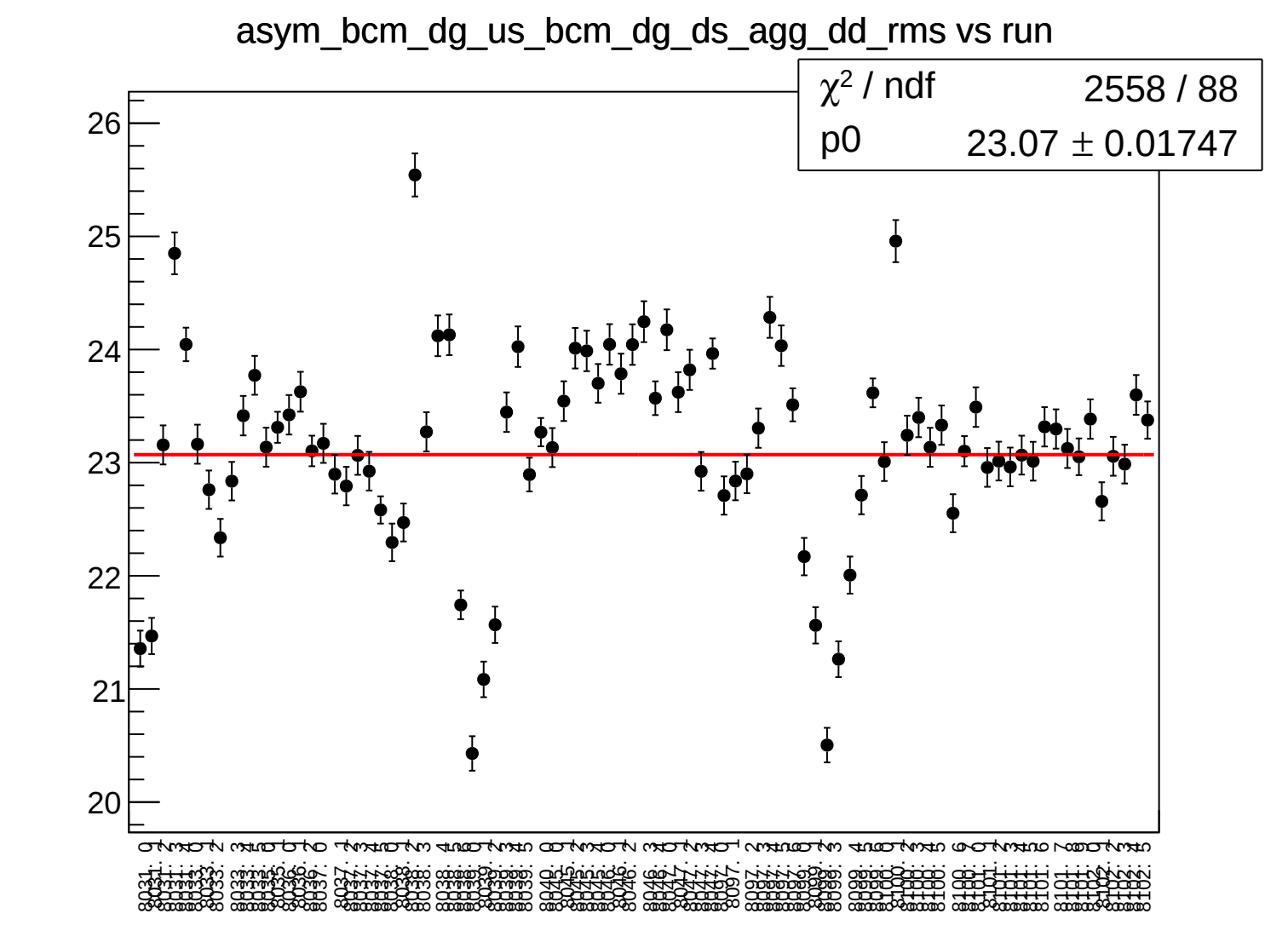

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 20.07 / 88
p0 −558.2 ± 170.4
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 89.36
Std Dev 0
1.5
1
0.5
0
−0.5
−1

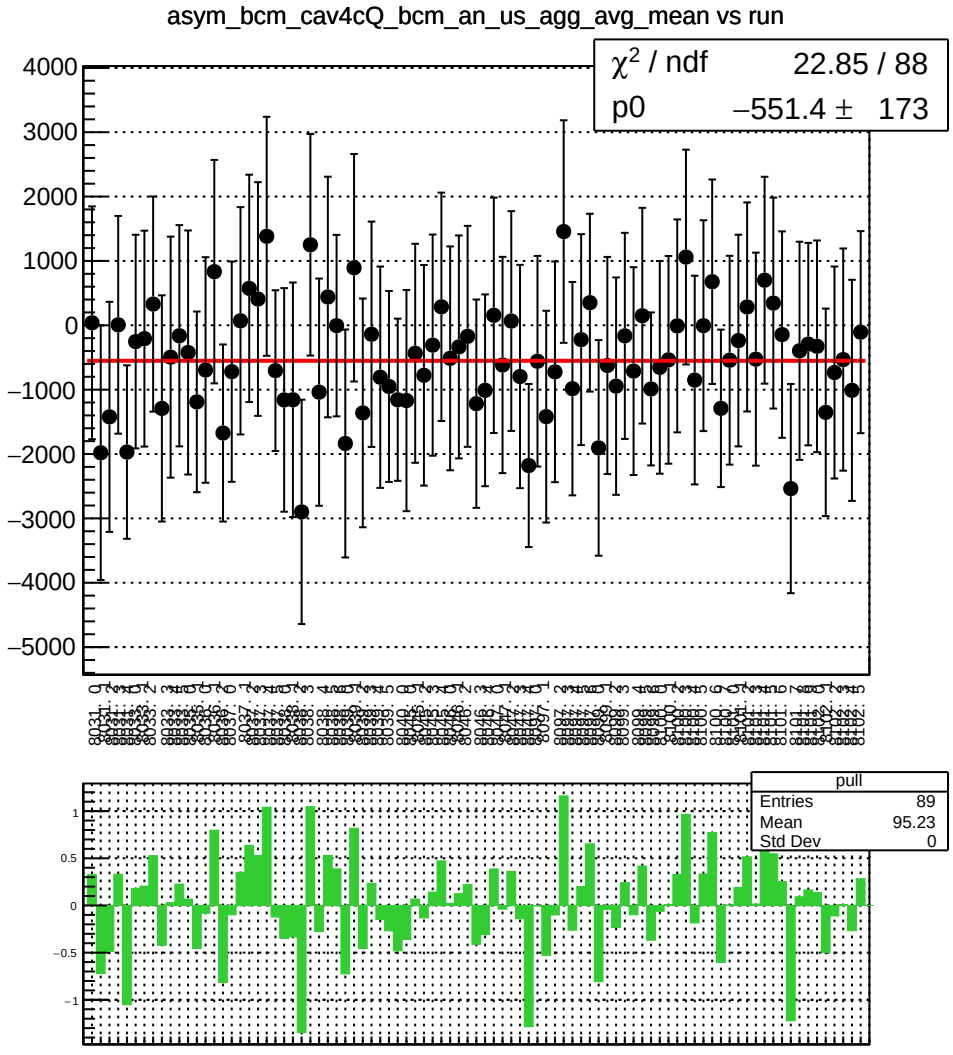

pull1D
Entries 89
Mean 0.01564
Std Dev 0.4746
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

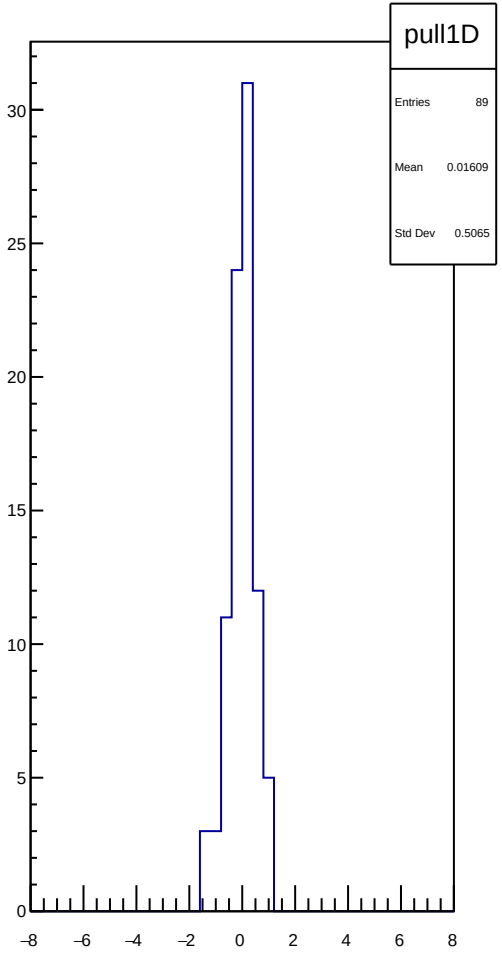

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 3643 / 88
p0 159.1 ± 0.1205
190
185
180
175
170
165
160
155
150
145

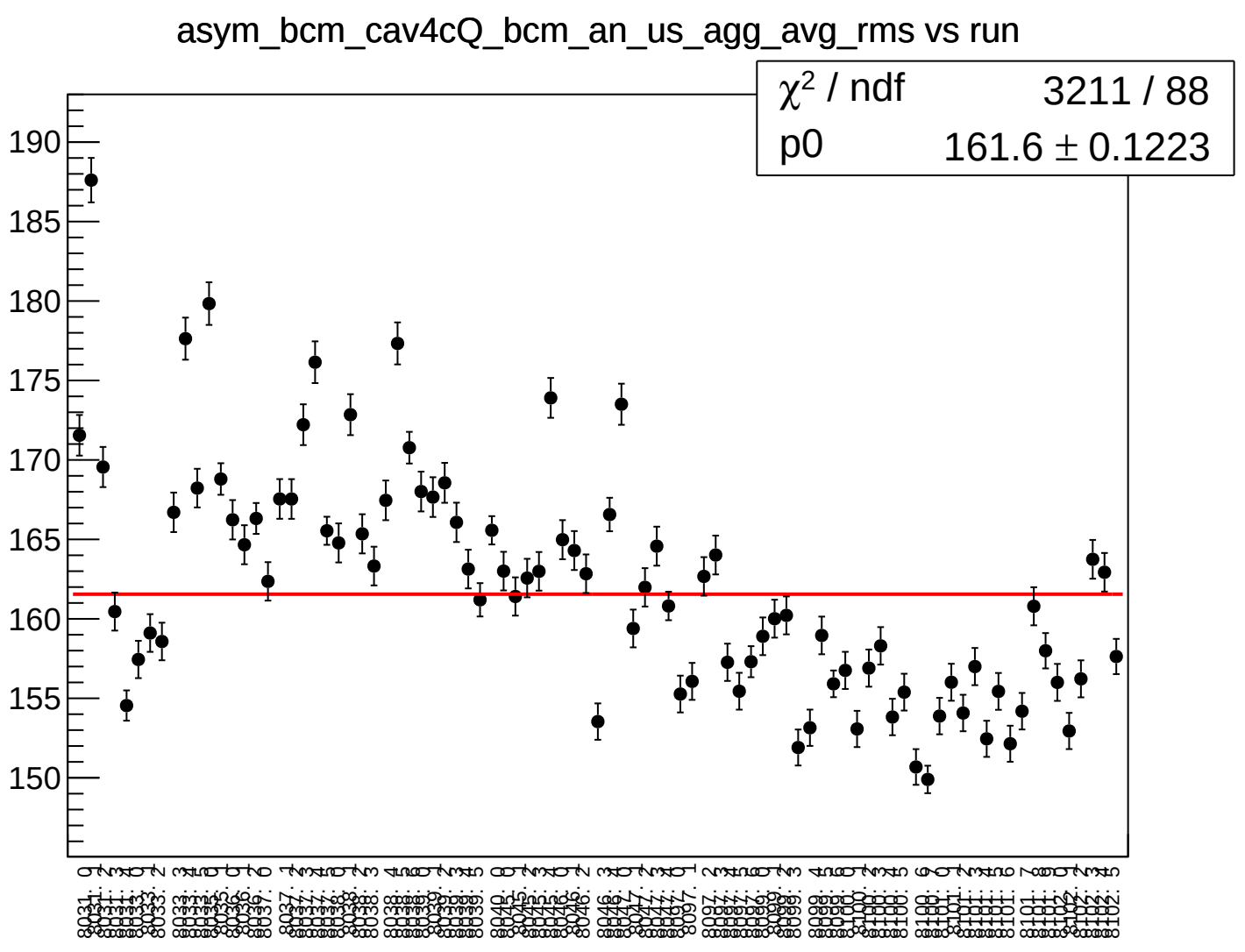

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 80.92 / 88
p0 16.05 ± 24.7
pull
Entries 89
Mean −1029
Std Dev 0

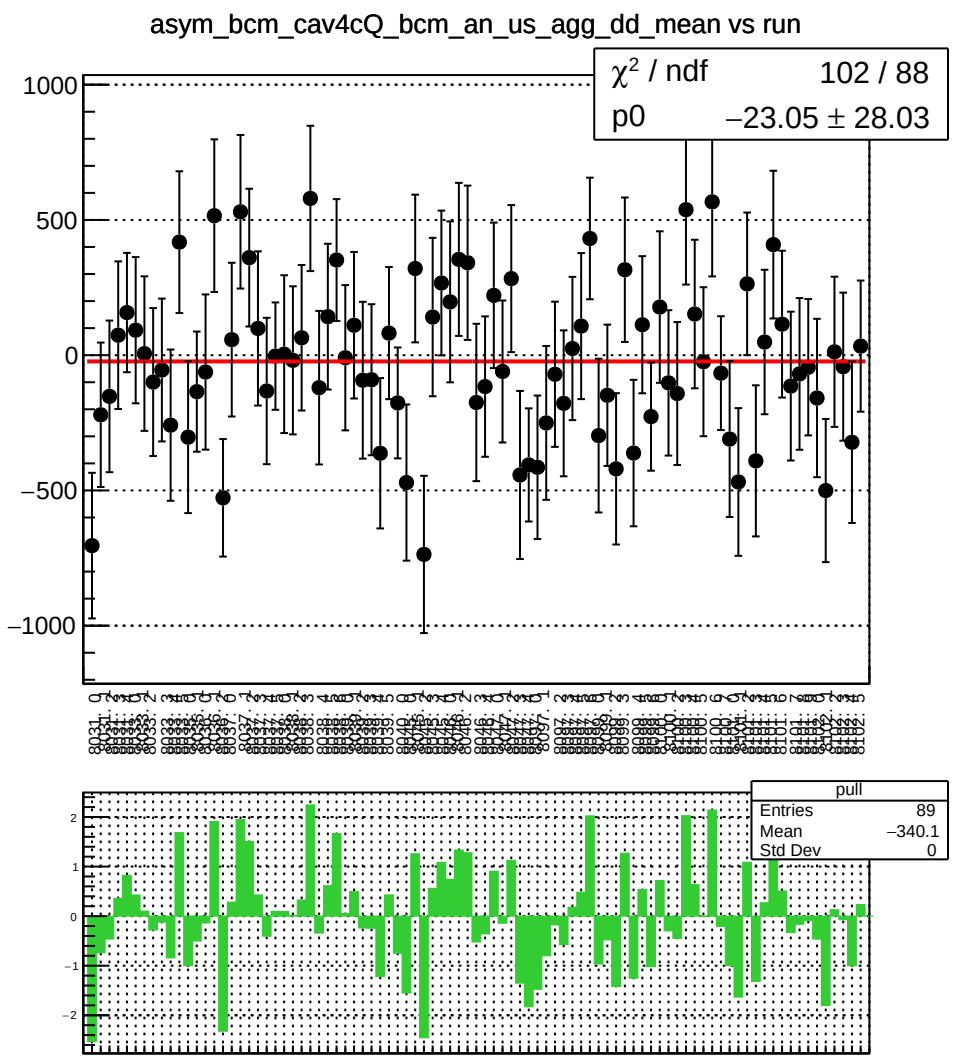

pull1D
Entries 89
Mean 0.004833
Std Dev 0.9535

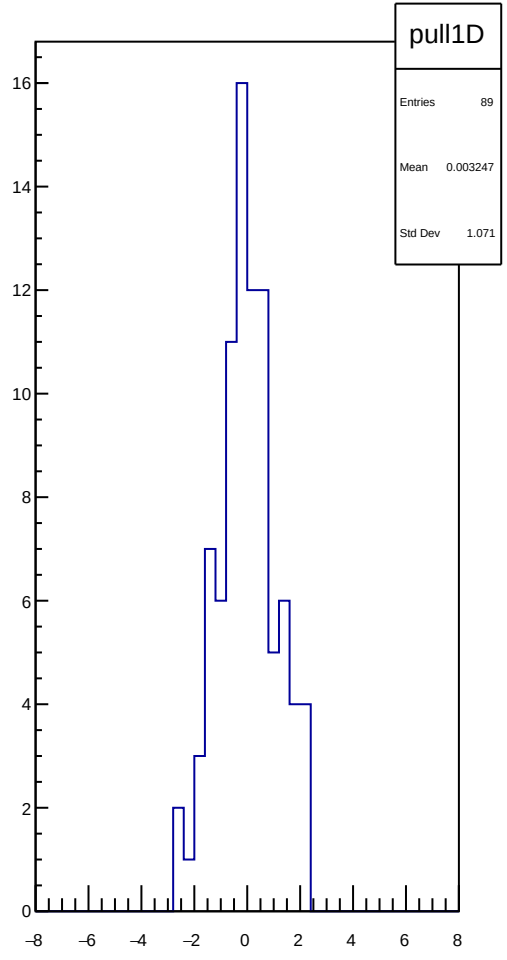

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2558 / 88
p0 23.07 ± 0.01747
26
25
24
23
22
21
20

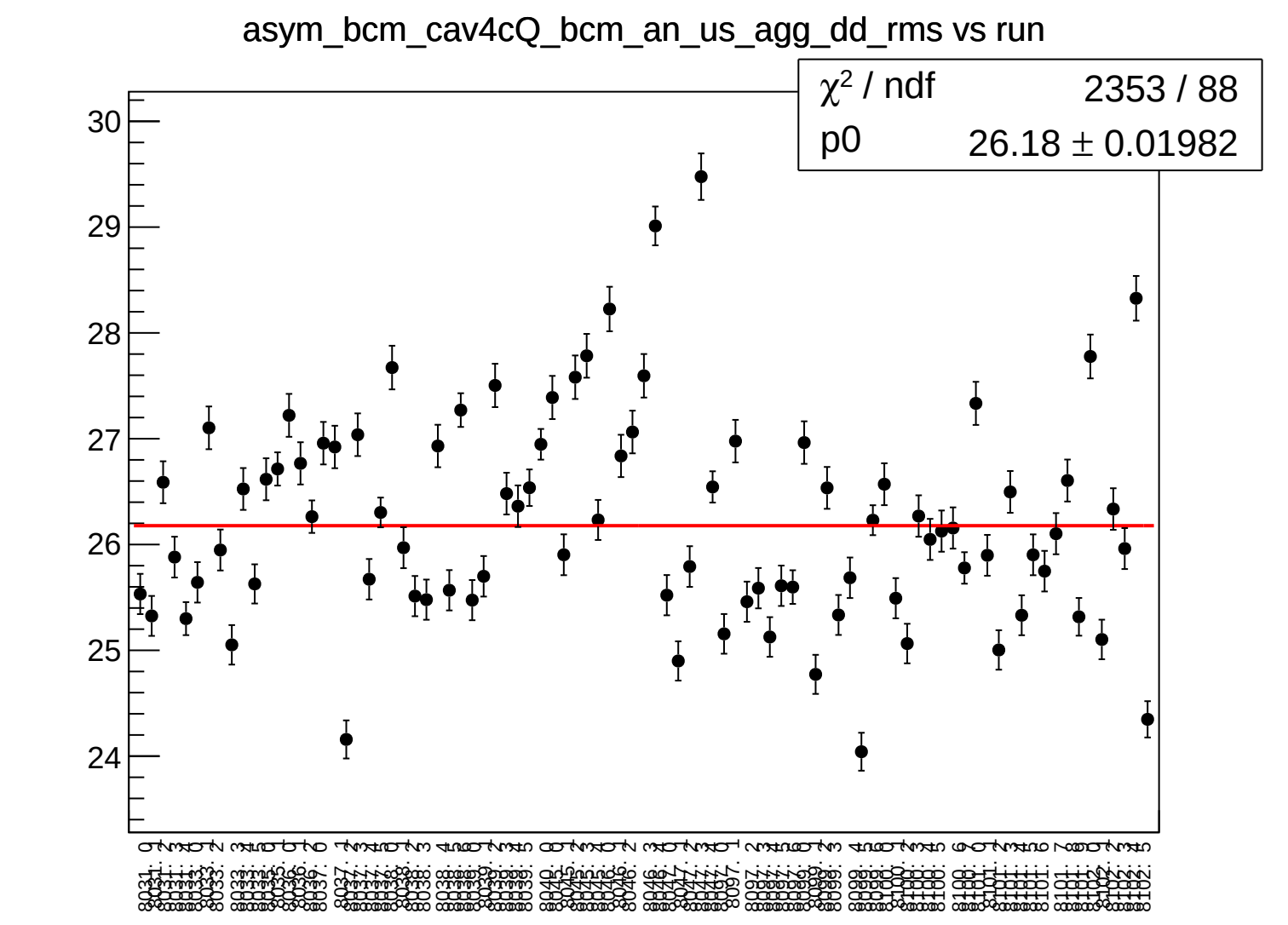

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 22.85 / 88
p0 −551.4 ± 173
pull
Entries 89
Mean 95.23
Std Dev 0

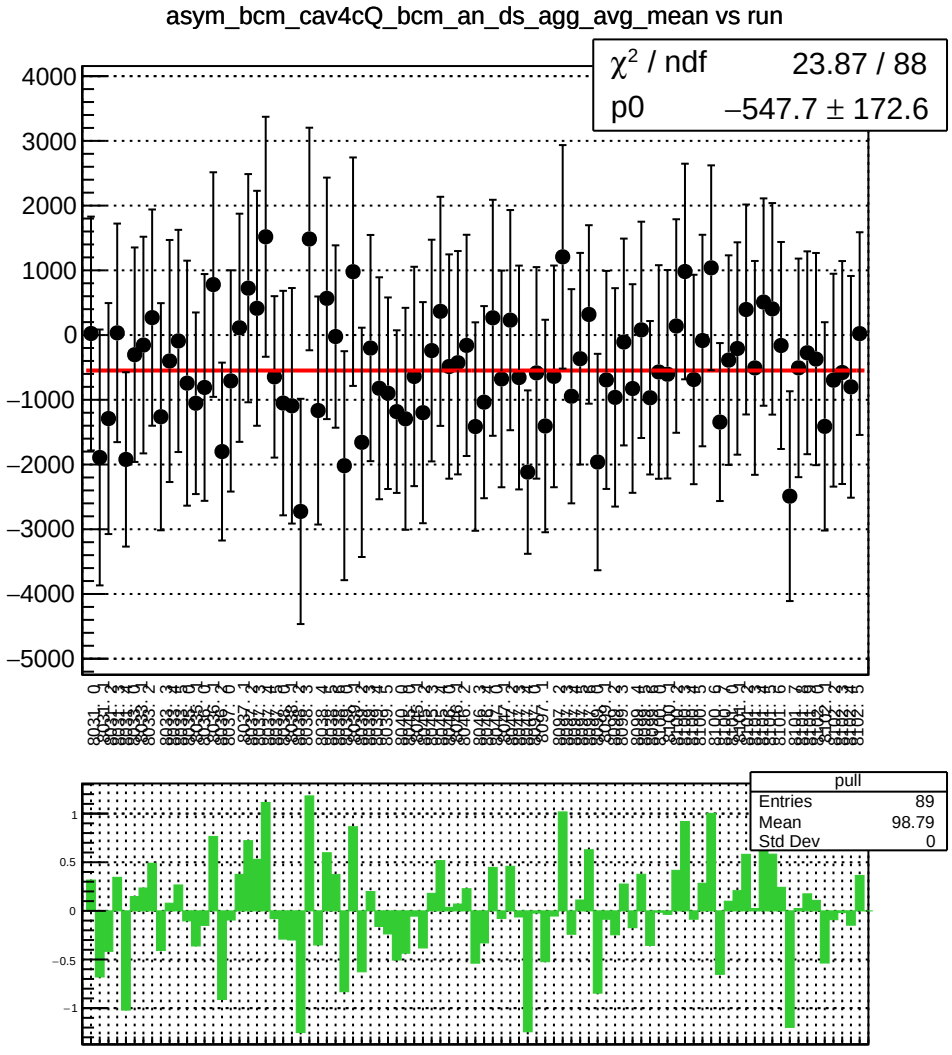

pull1D
Entries 89
Mean 0.01609
Std Dev 0.5065

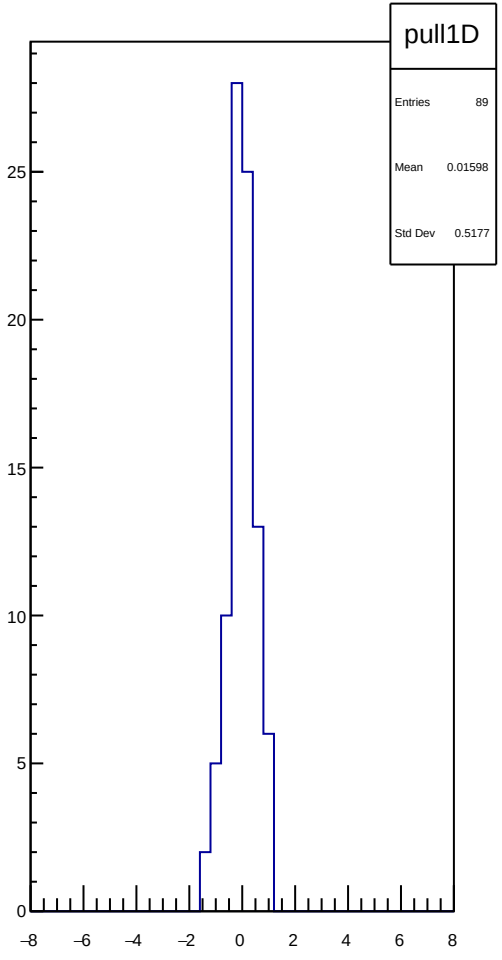

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3211 / 88
p0 161.6 ± 0.1223
190
185
180
175
170
165
160
155
150

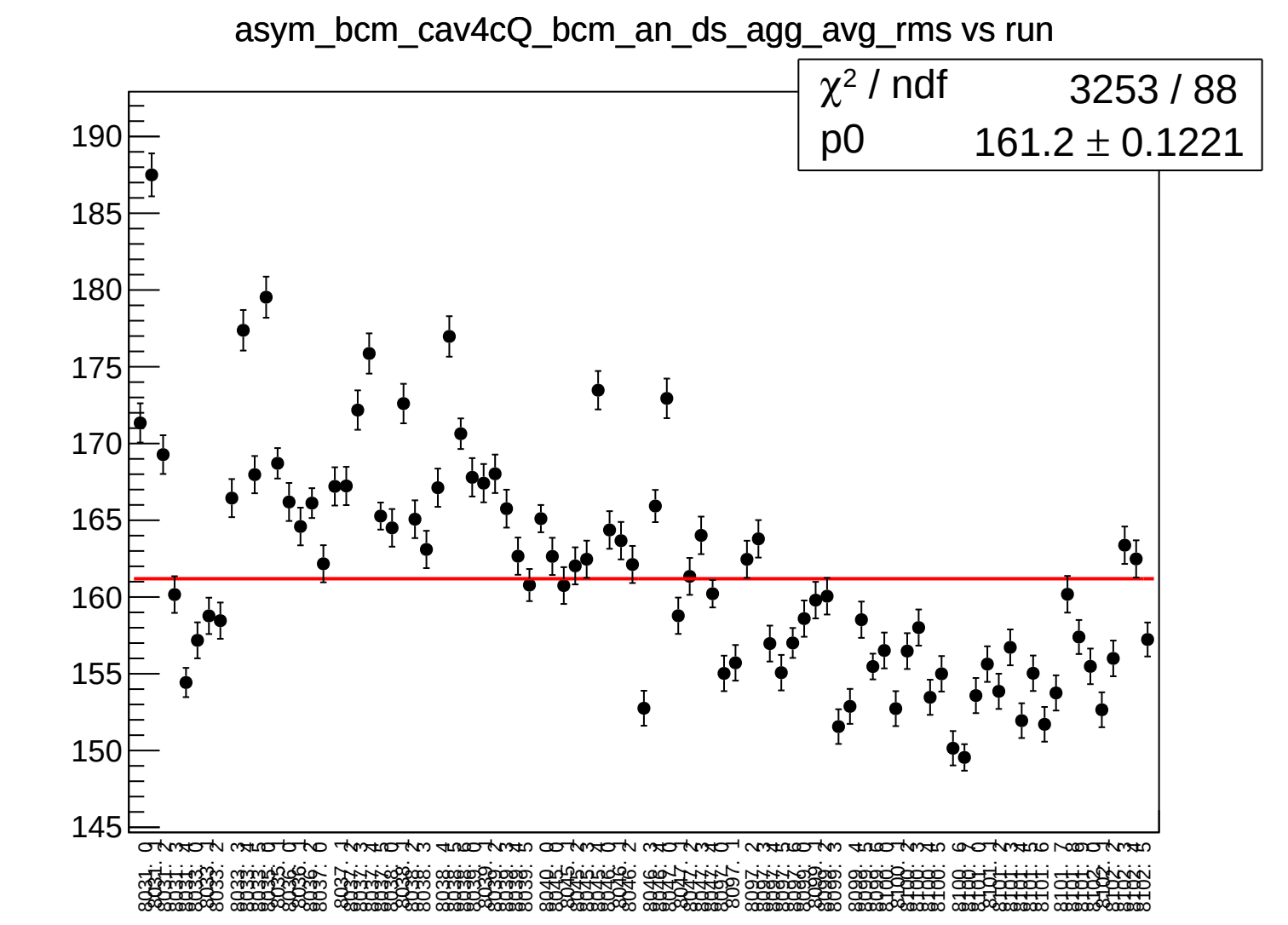

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 102 / 88
p0 −23.05 ± 28.03
1000
500
0
−500
−1000
pull
Entries 89
Mean −340.1
Std Dev 0
2
1
0
−1
−2

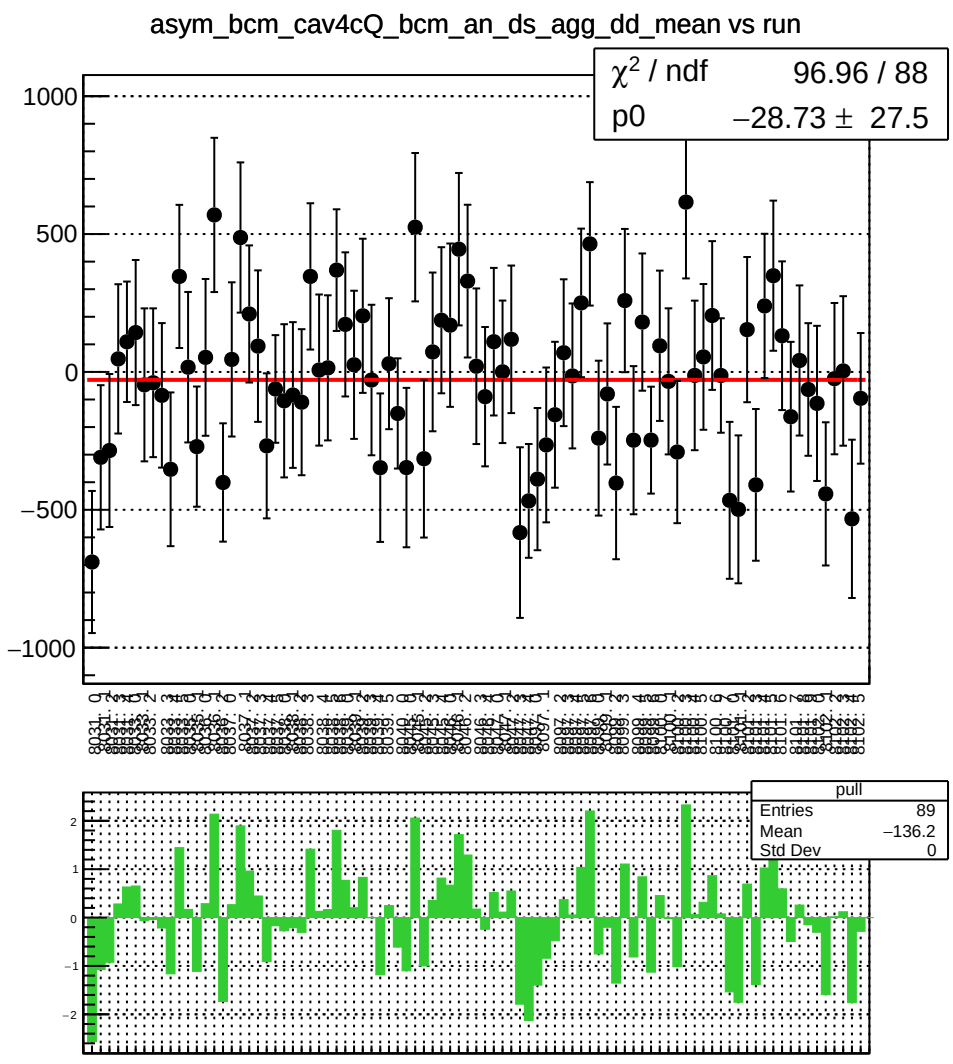

pull1D
Entries 89
Mean 0.003247
Std Dev 1.071
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

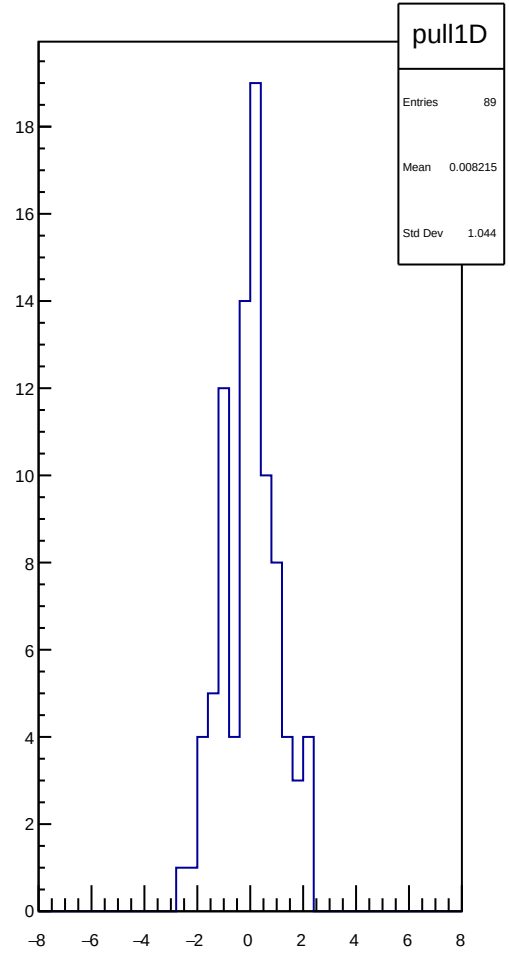

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2353 / 88
p0 26.18 ± 0.01982
30
29
28
27
26
25
24

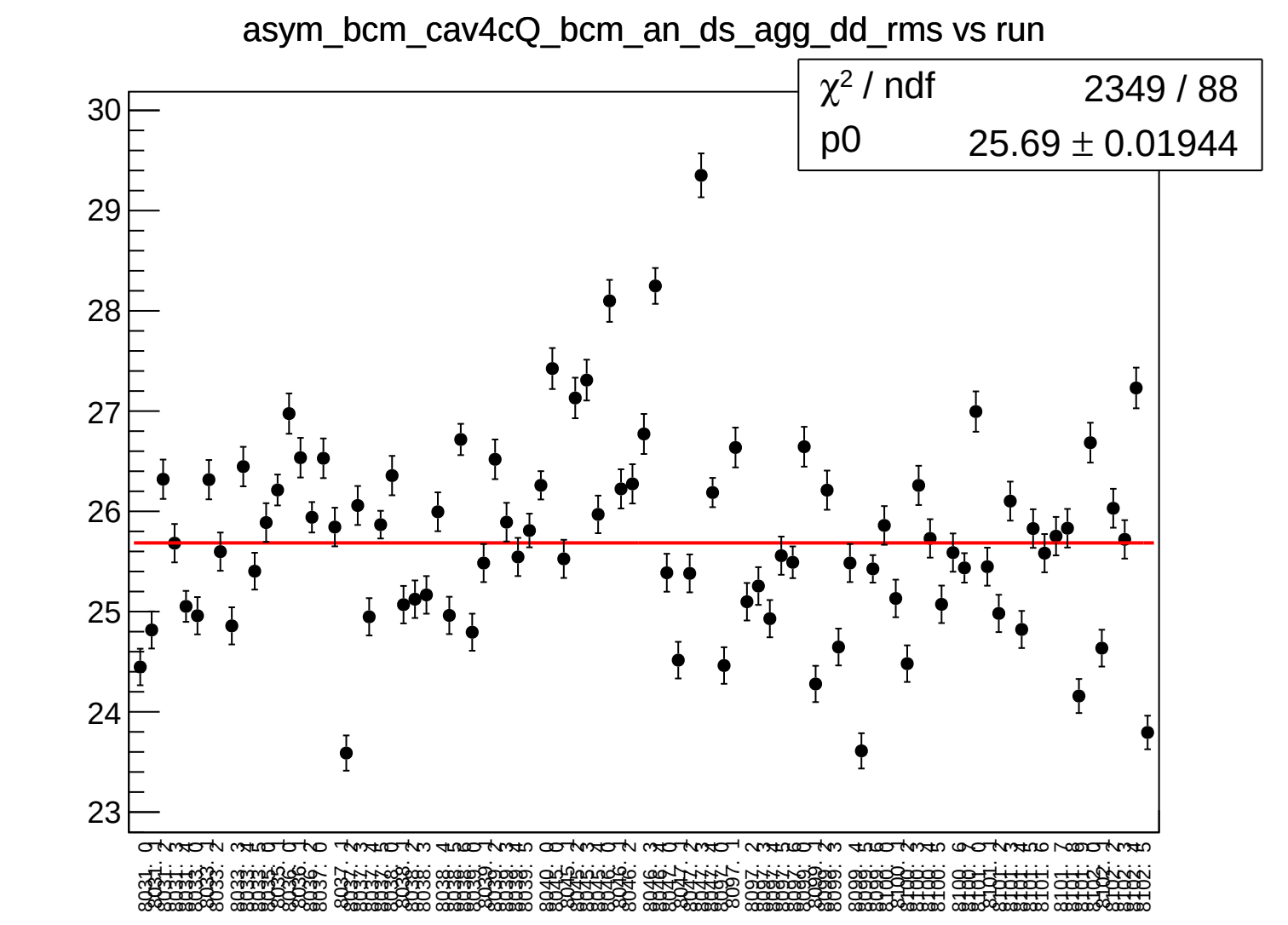

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 23.87 / 88
p0 −547.7 ± 172.6
pull
Entries 89
Mean 98.79
Std Dev 0

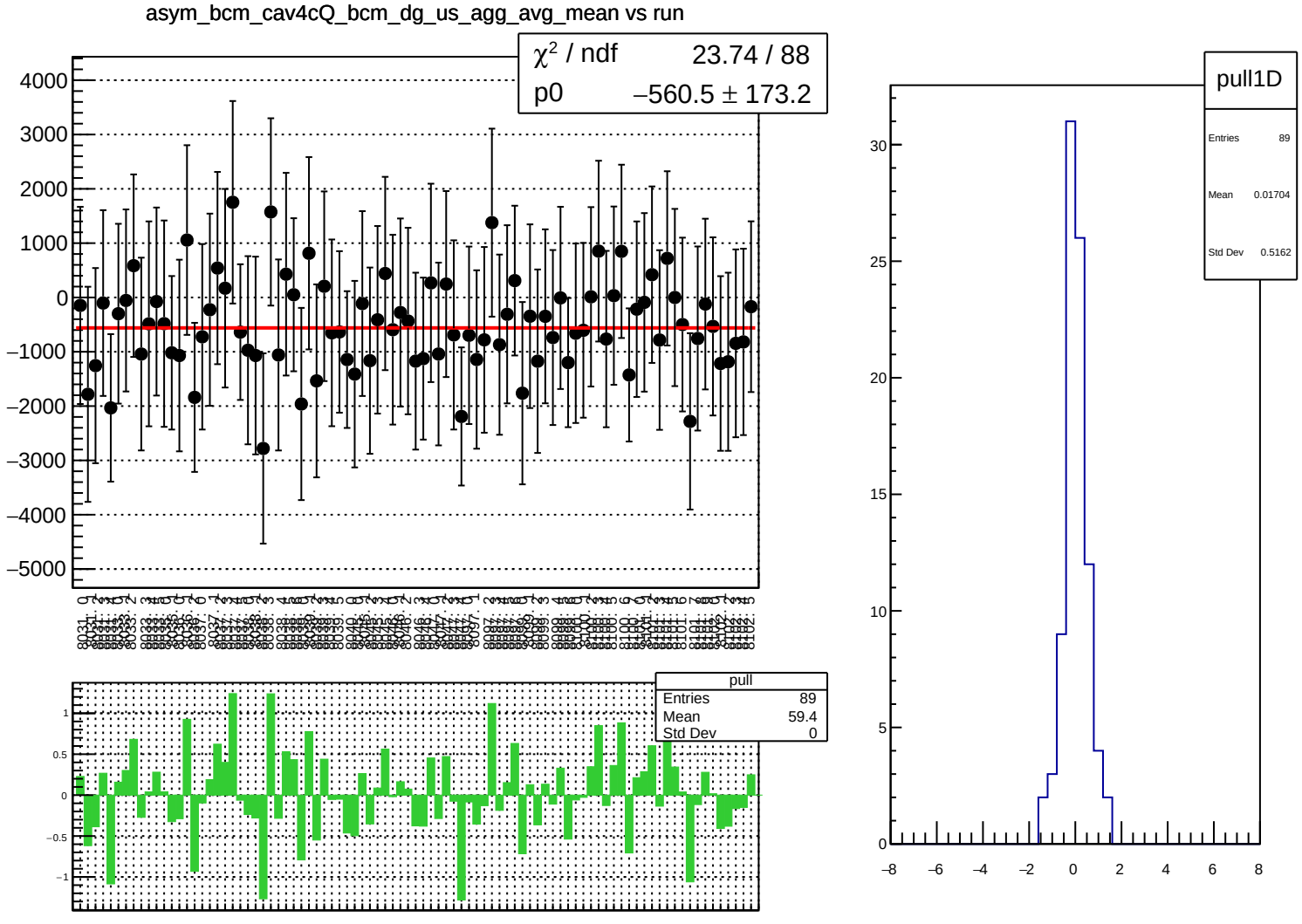

pull1D
Entries 89
Mean 0.01598
Std Dev 0.5177

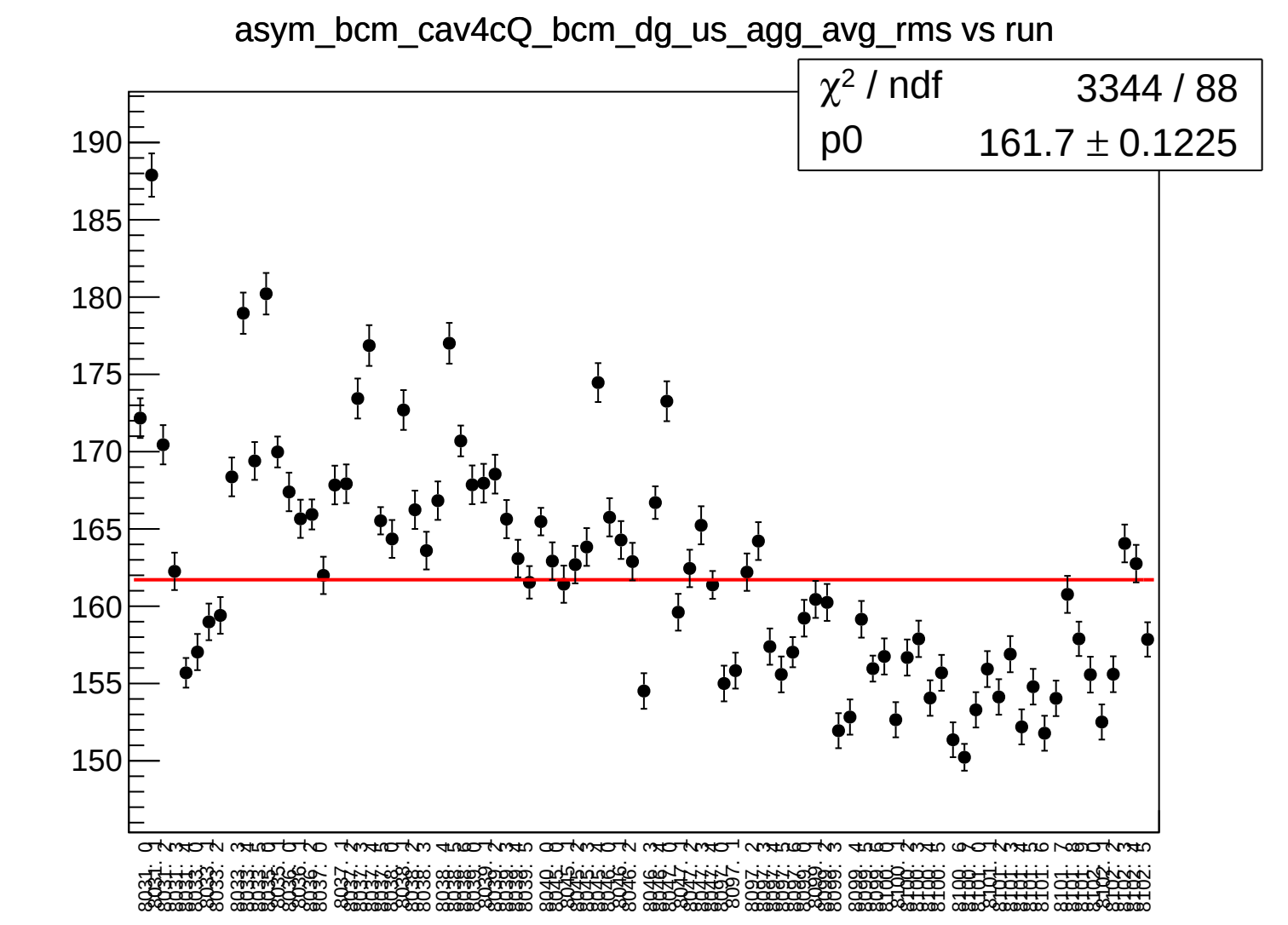

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3253 / 88
p0 161.2 ± 0.1221
190
185
180
175
170
165
160
155
150
145

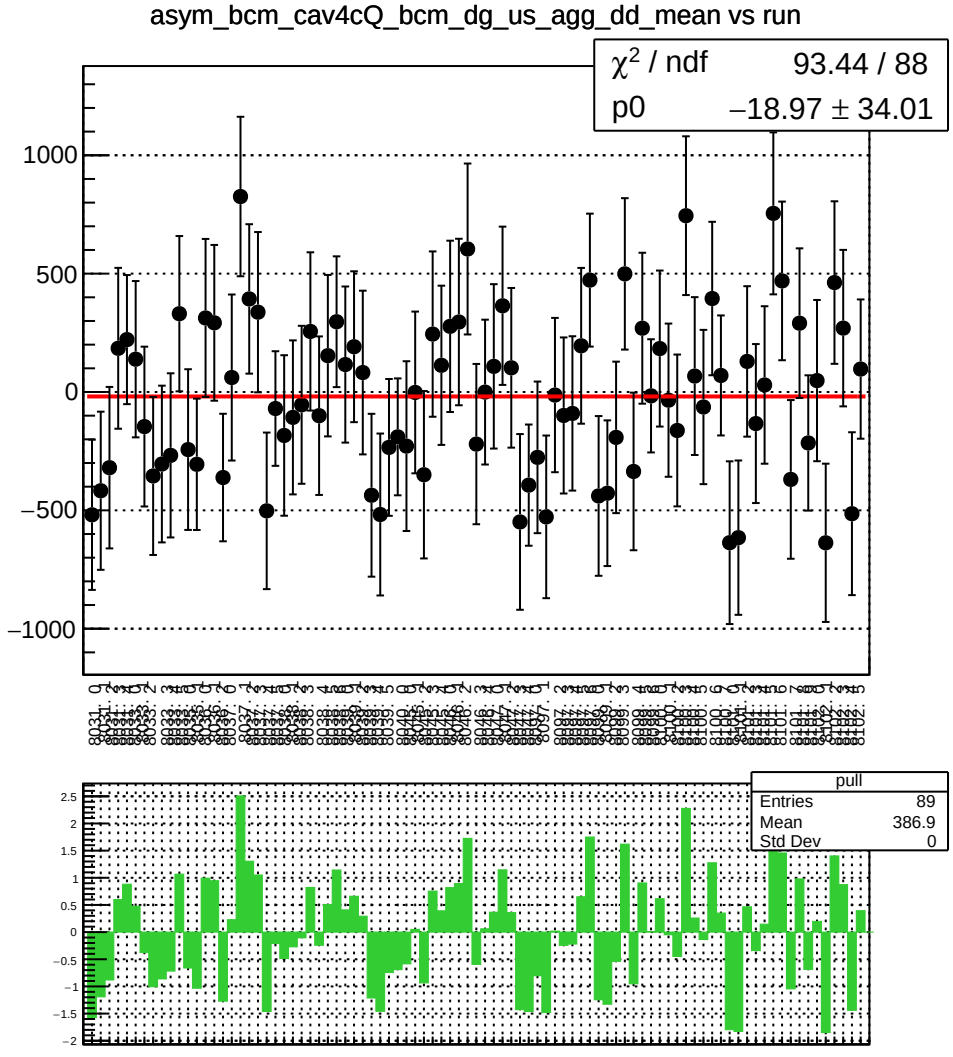

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 96.96 / 88
p0 −28.73 ± 27.5
1000
500
0
−500
−1000
pull
Entries 89
Mean −136.2
Std Dev 0
2
1
0
−1
−2

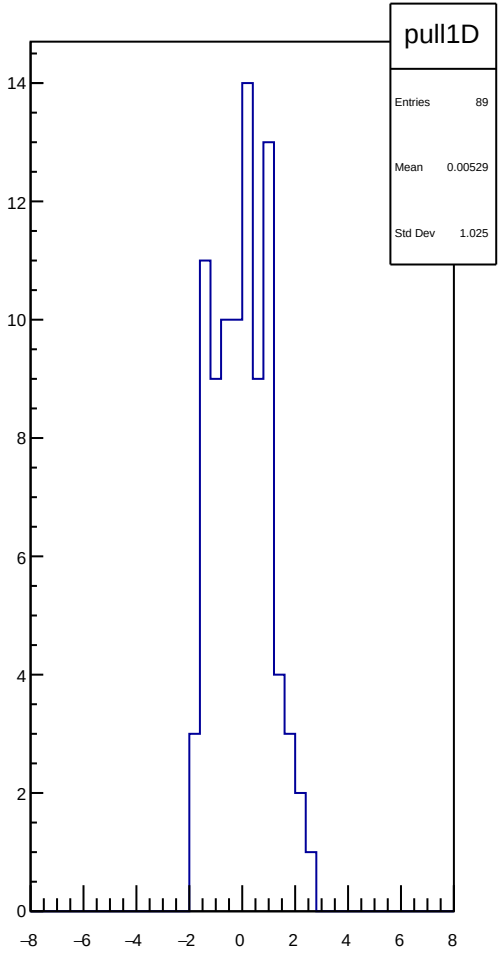

pull1D
Entries 89
Mean 0.008215
Std Dev 1.044
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

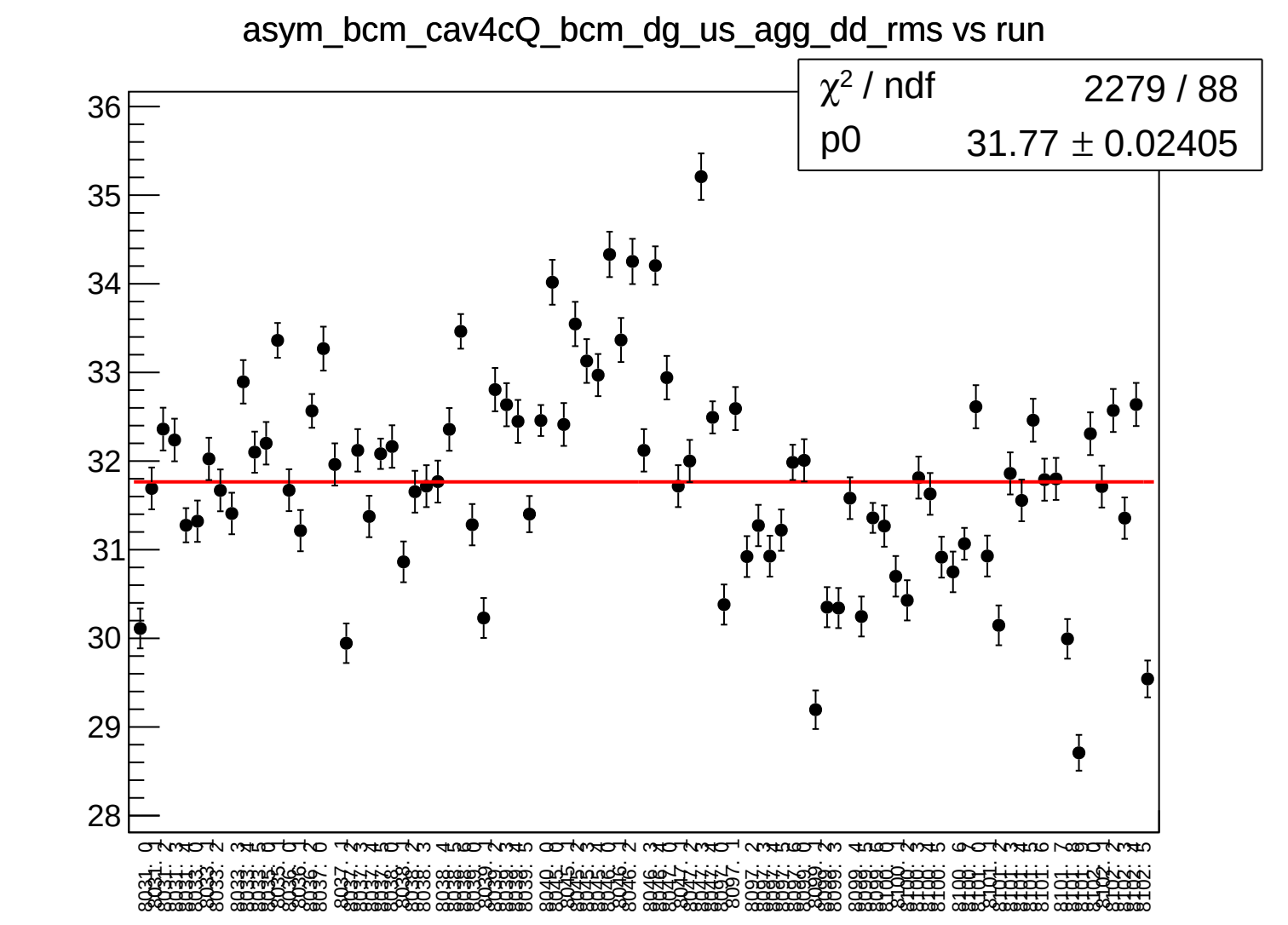

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2349 / 88
p0 25.69 ± 0.01944
30
29
28
27
26
25
24
23

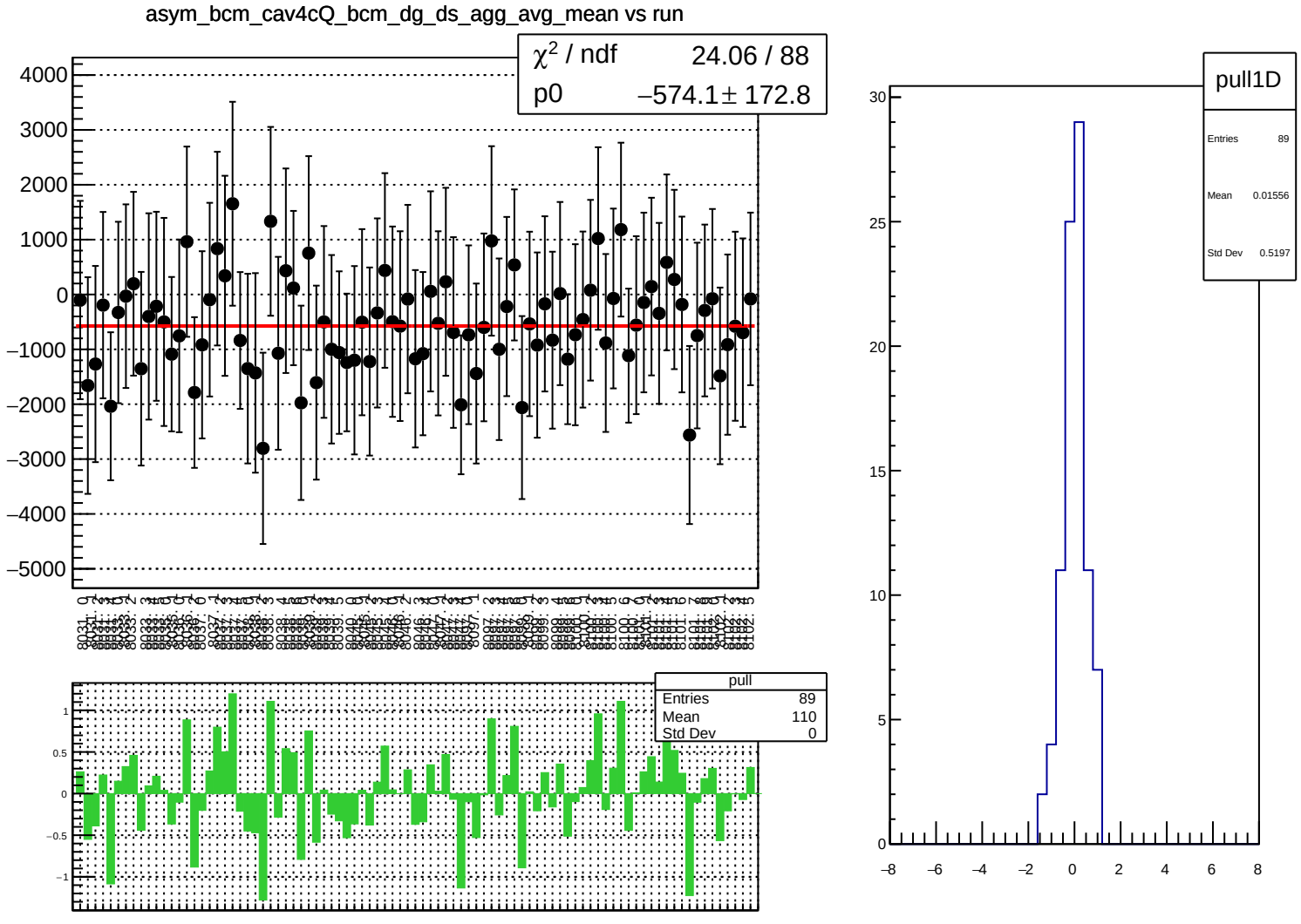

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 23.74 / 88
p0 −560.5 ± 173.2
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
pull
Entries 89
Mean 59.4
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean 0.01704
Std Dev 0.5162
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

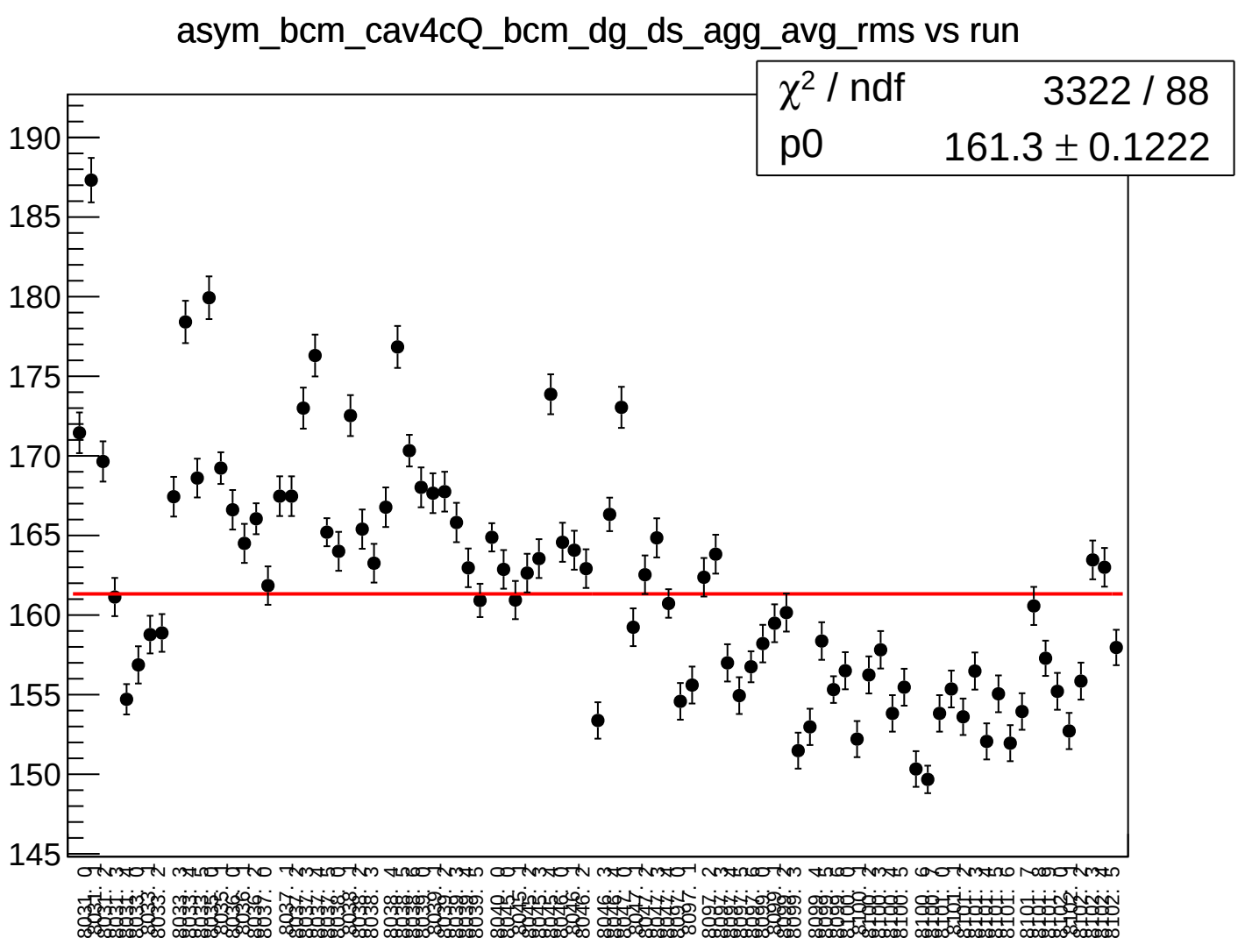

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 3344 / 88
p0 161.7 ± 0.1225
190
185
180
175
170
165
160
155
150

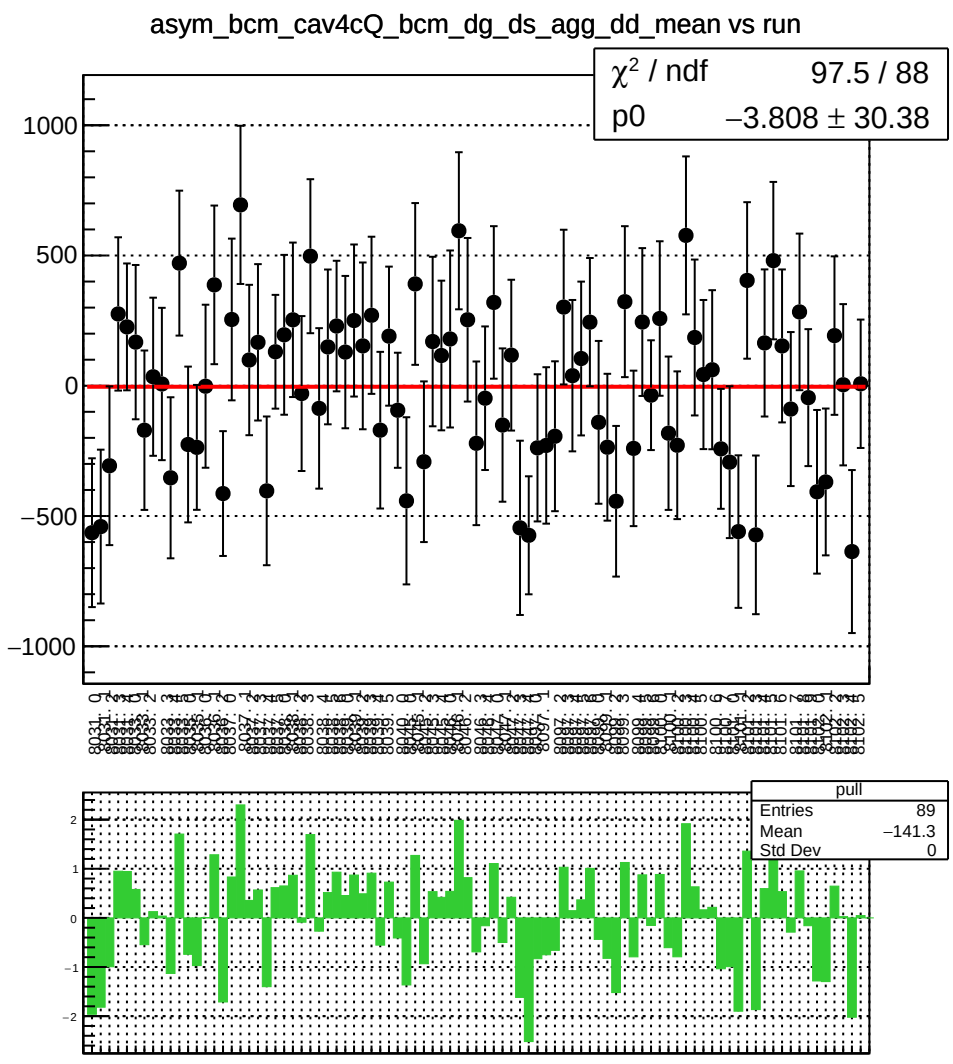

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 93.44 / 88
p0 −18.97 ± 34.01
1000
500
0
−500
−1000
pull
Entries 89
Mean 386.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

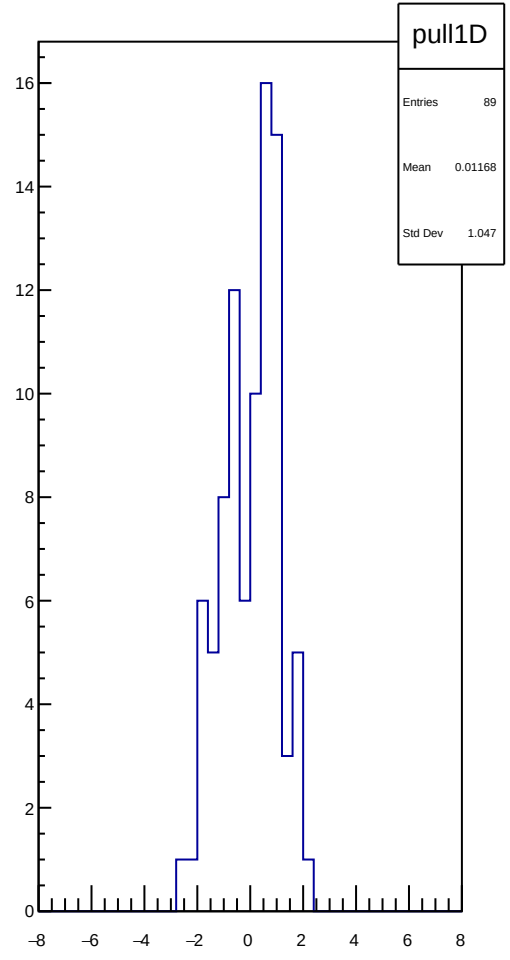

pull1D
Entries 89
Mean 0.00529
Std Dev 1.025
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

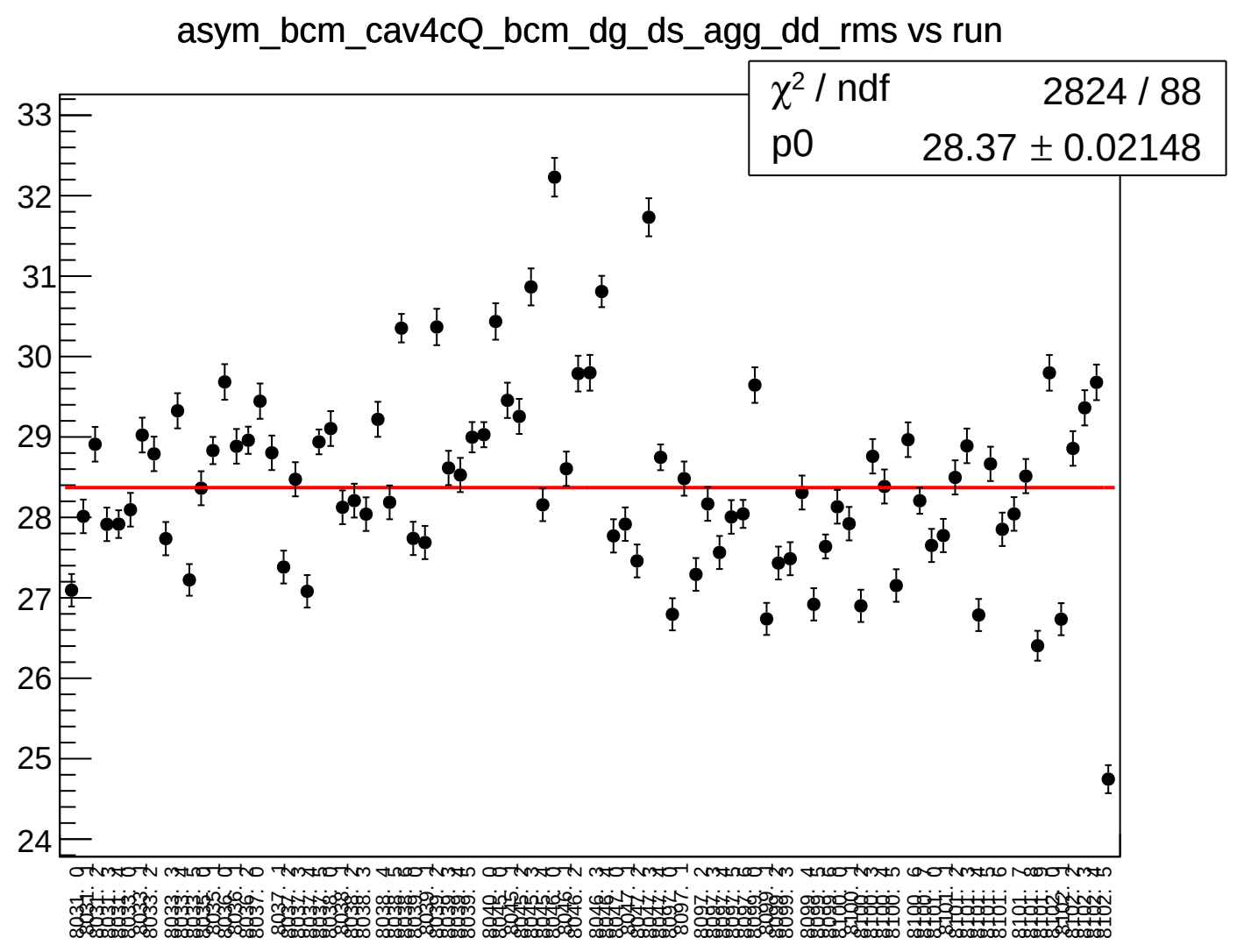

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 2279 / 88
p0 31.77 ± 0.02405
36
35
34
33
32
31
30
29
28

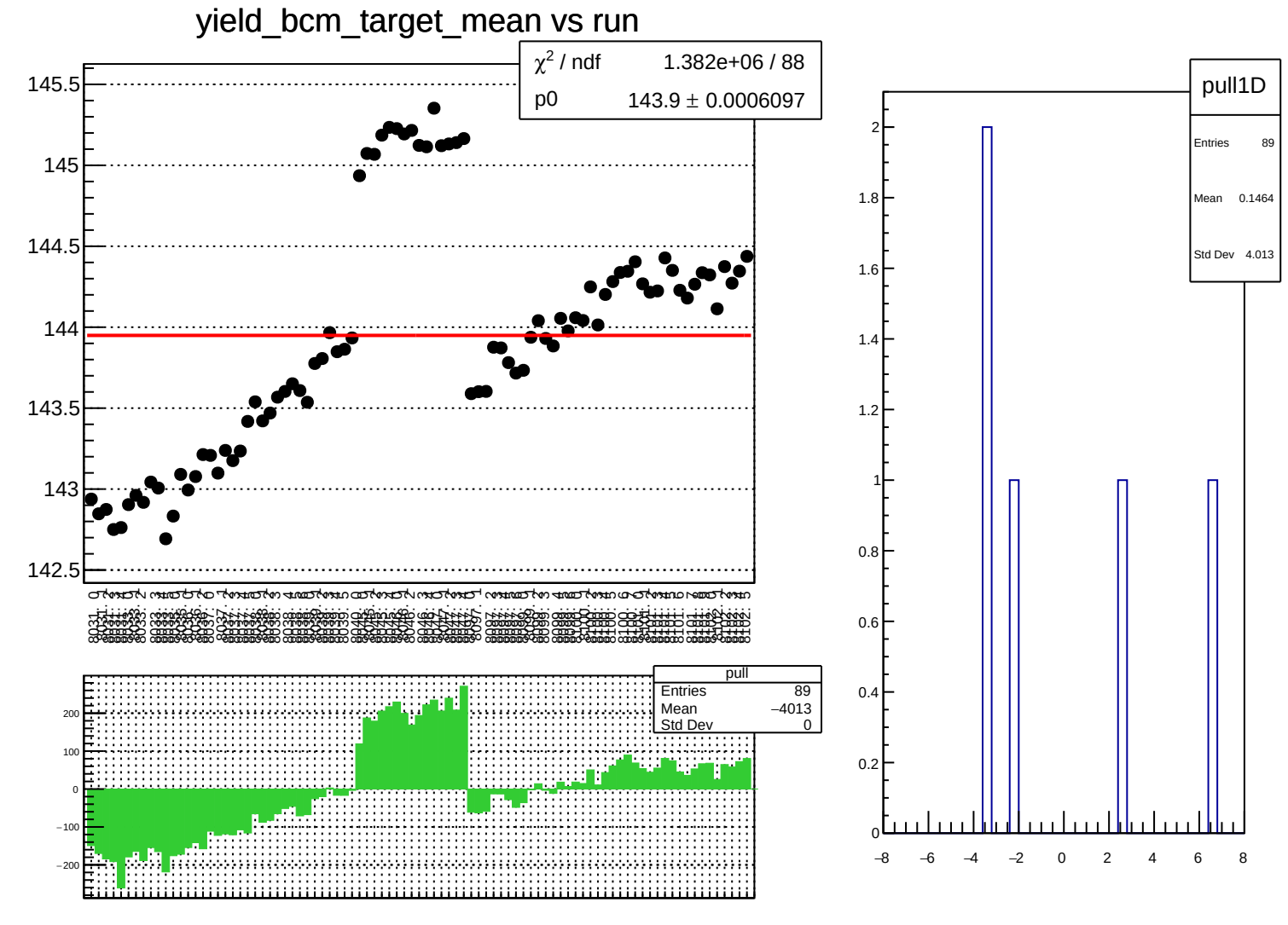

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 24.06 / 88
p0 −574.1± 172.8
pull
Entries 89
Mean 110
Std Dev 0
pull1D
Entries 89
Mean 0.01556
Std Dev 0.5197

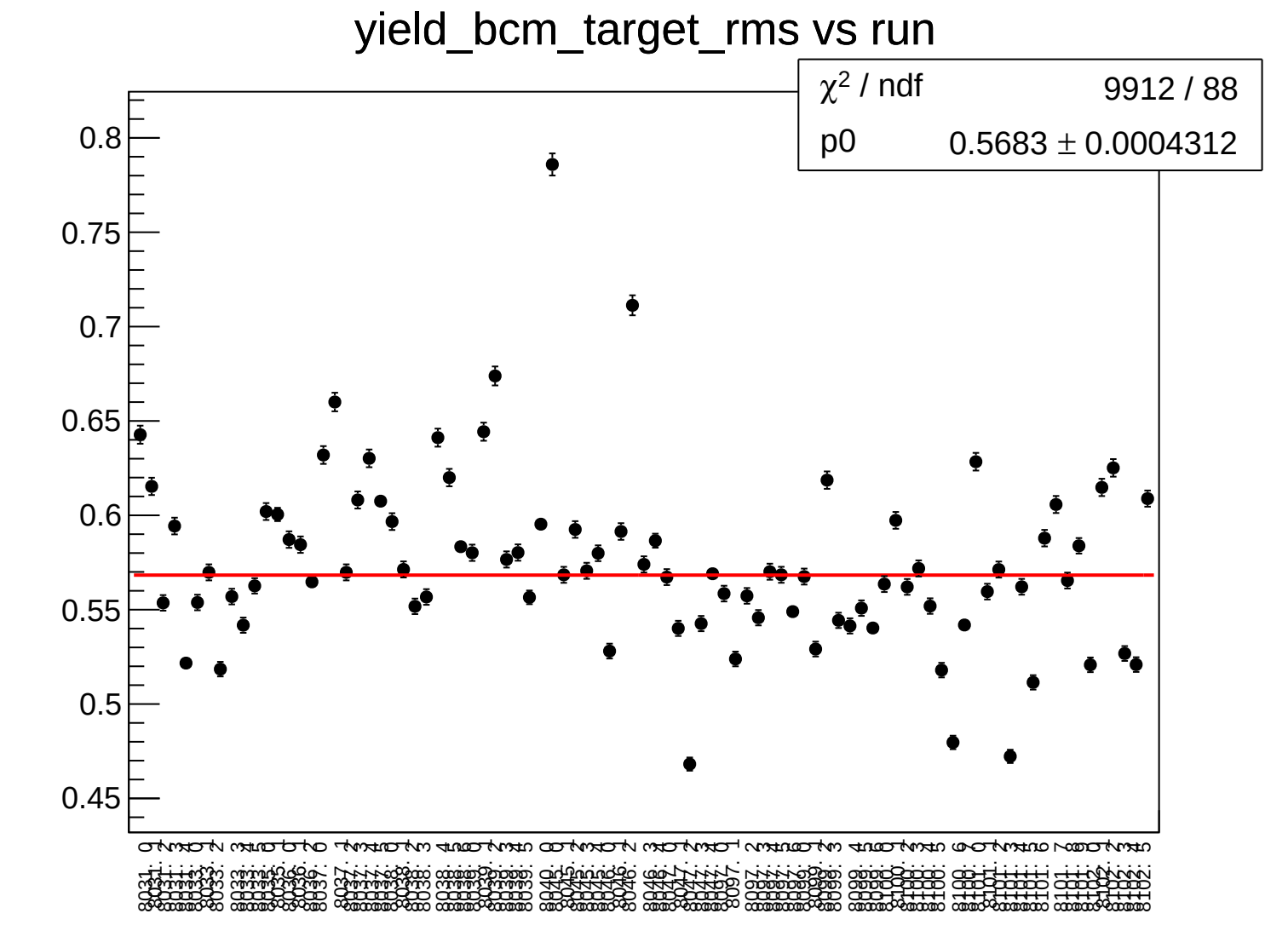

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 3322 / 88
p0 161.3 ± 0.1222
190
185
180
175
170
165
160
155
150
145

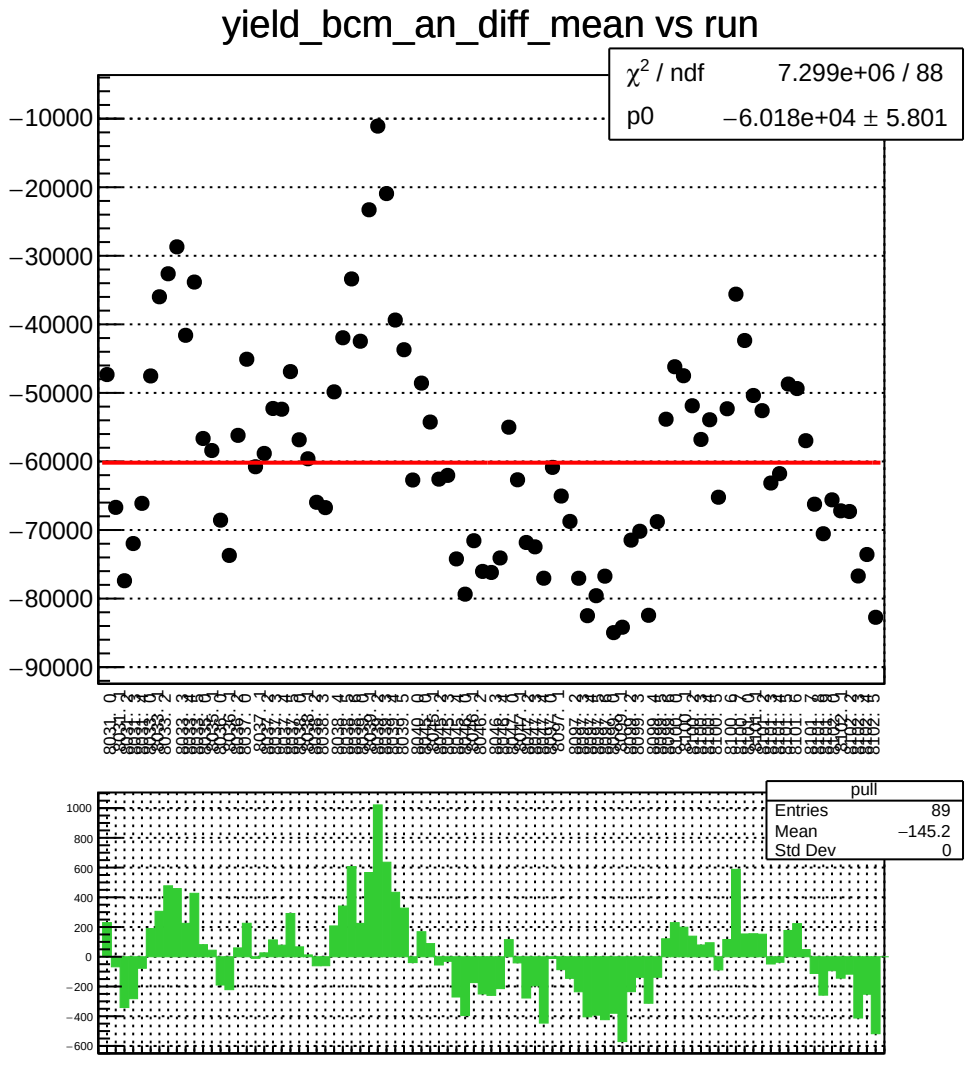

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 97.5 / 88
p0 −3.808 ± 30.38
1000
500
0
−500
−1000
pull
Entries 89
Mean −141.3
Std Dev 0
2
1
0
−1
−2

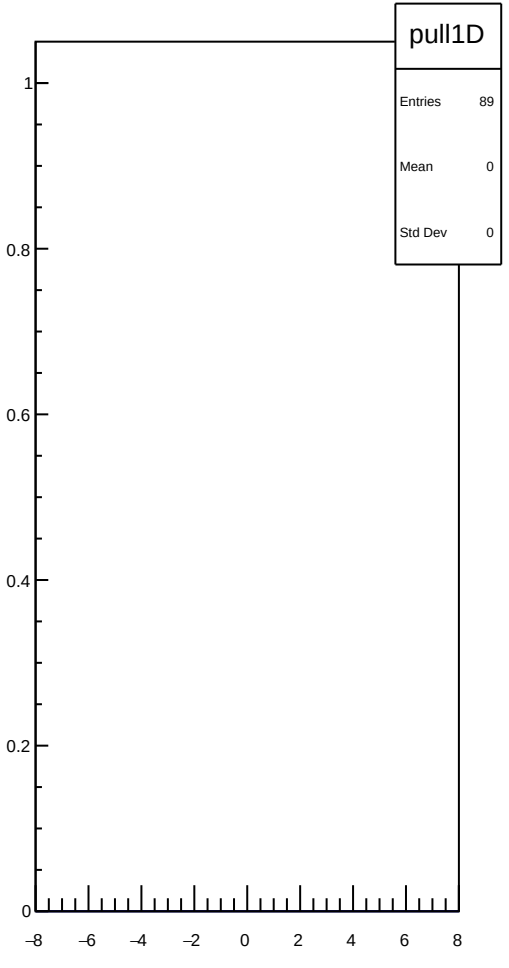

pull1D
Entries 89
Mean 0.01168
Std Dev 1.047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

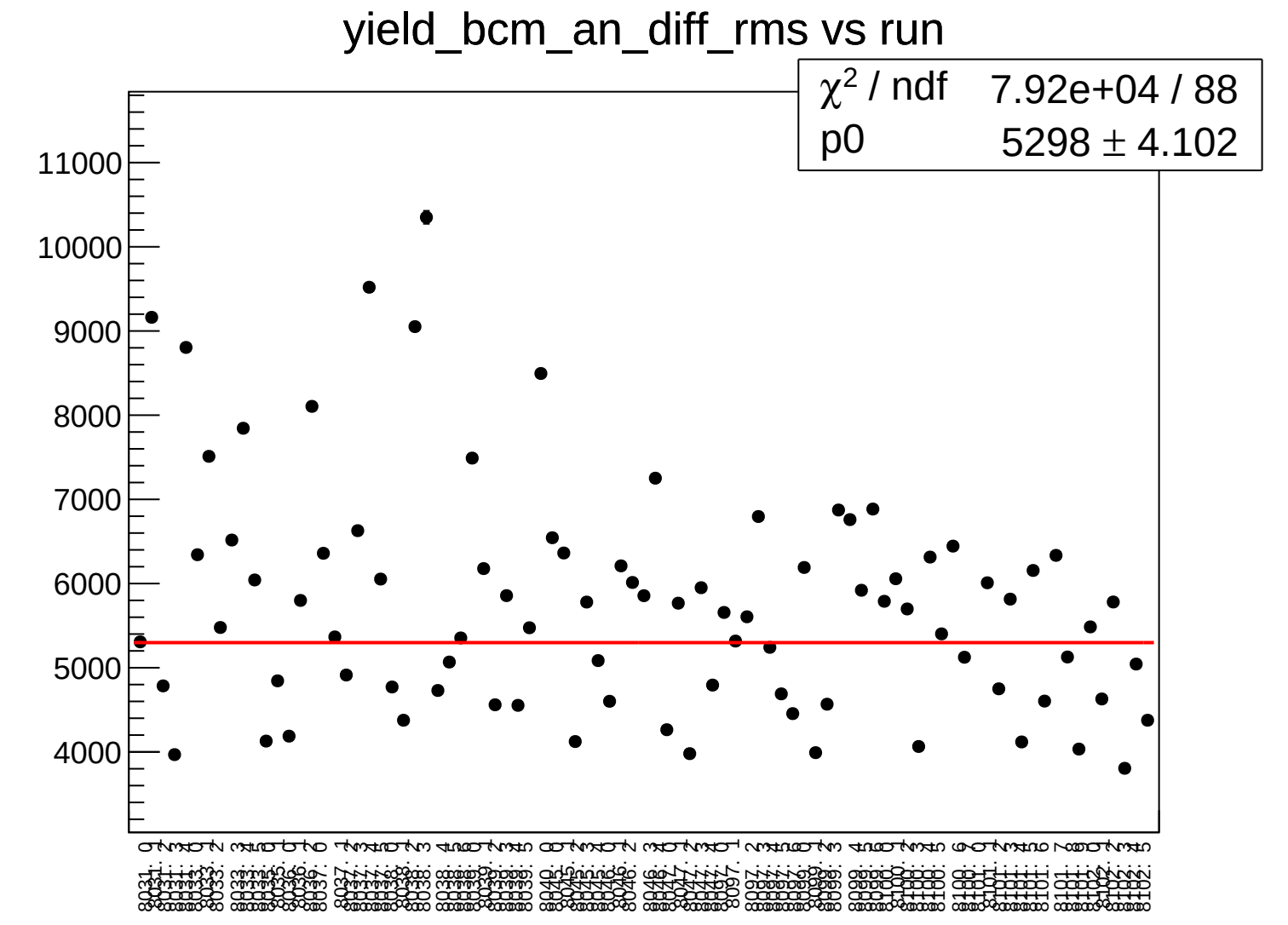

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2824 / 88
p0 28.37 ± 0.02148
33
32
31
30
29
28
27
26
25
24

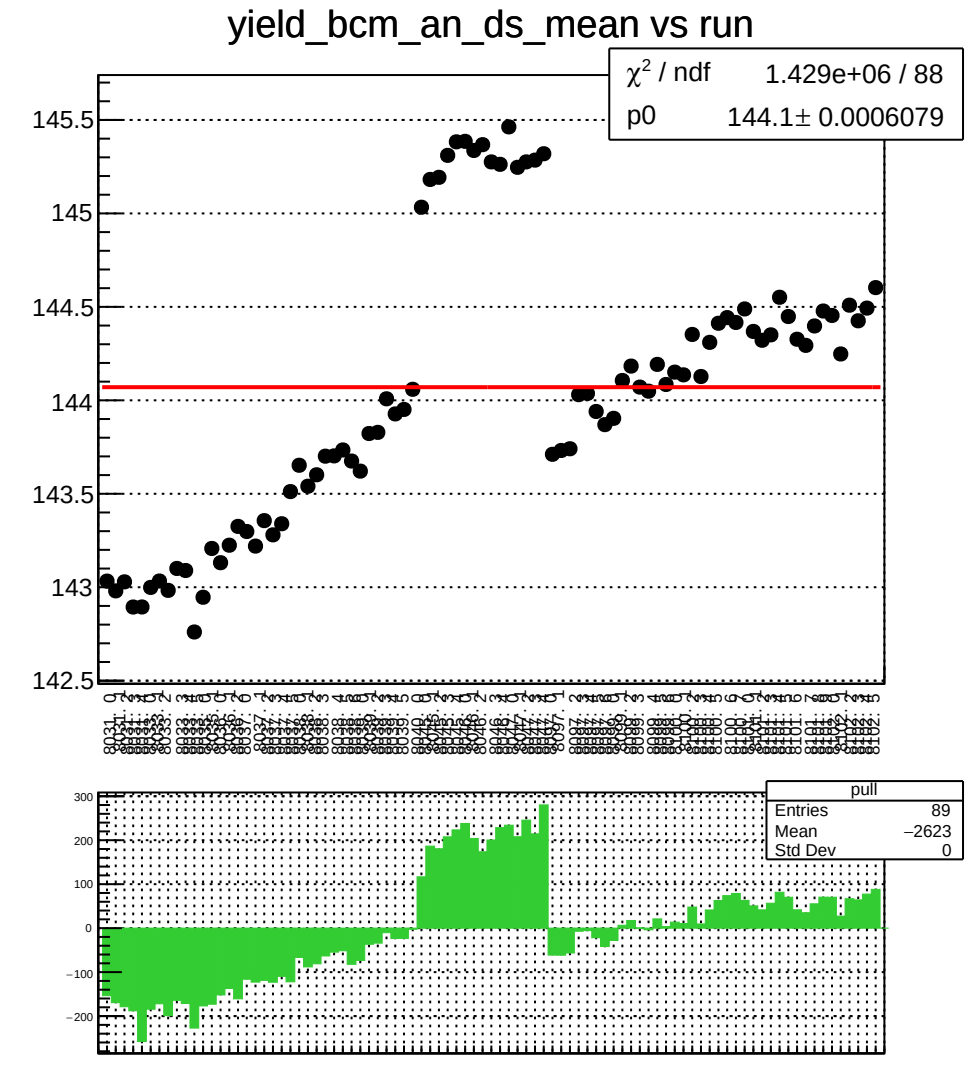

yield_bcm_target_mean vs run
χ² / ndf 1.382e+06 / 88
p0 143.9 ± 0.0006097
145.5
145
144.5
144
143.5
143
142.5
pull
Entries 89
Mean −4013
Std Dev 0
200
100
0
−100
−200
pull1D
Entries 89
Mean 0.1464
Std Dev 4.013
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

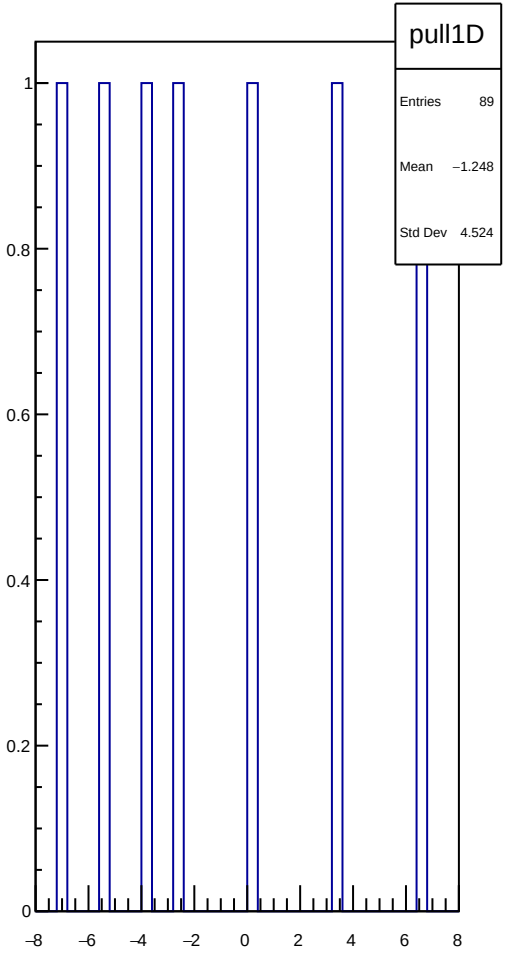

yield_bcm_target_rms vs run
χ² / ndf 9912 / 88
p0 0.5683 ± 0.0004312
0.8
0.75
0.7
0.65
0.6
0.55
0.5
0.45

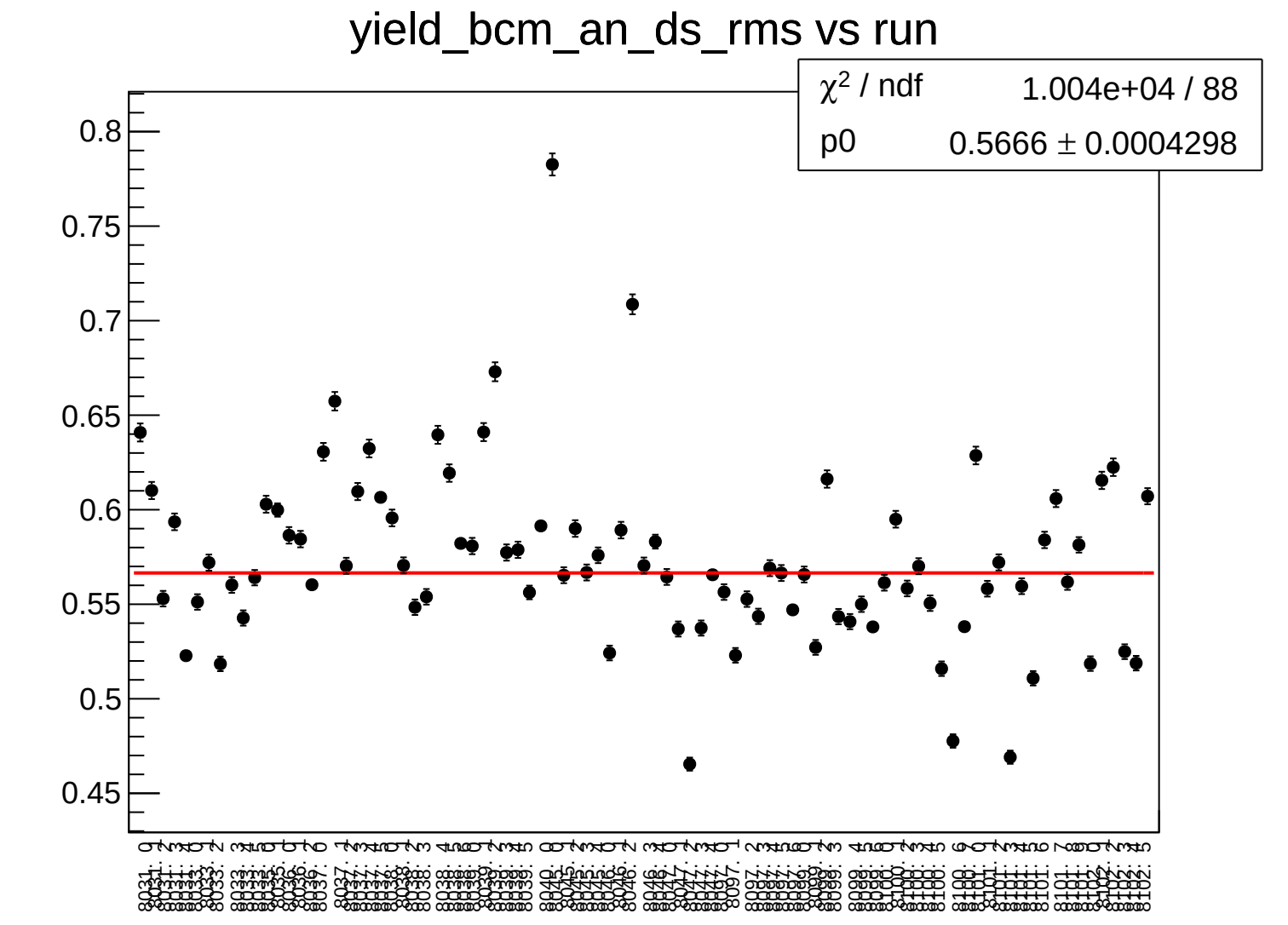

yield_bcm_an_diff_mean vs run
χ² / ndf 7.299e+06 / 88
p0 −6.018e+04 ± 5.801
−10000
−20000
−30000
−40000
−50000
−60000
−70000
−80000
−90000
pull
Entries 89
Mean −145.2
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600

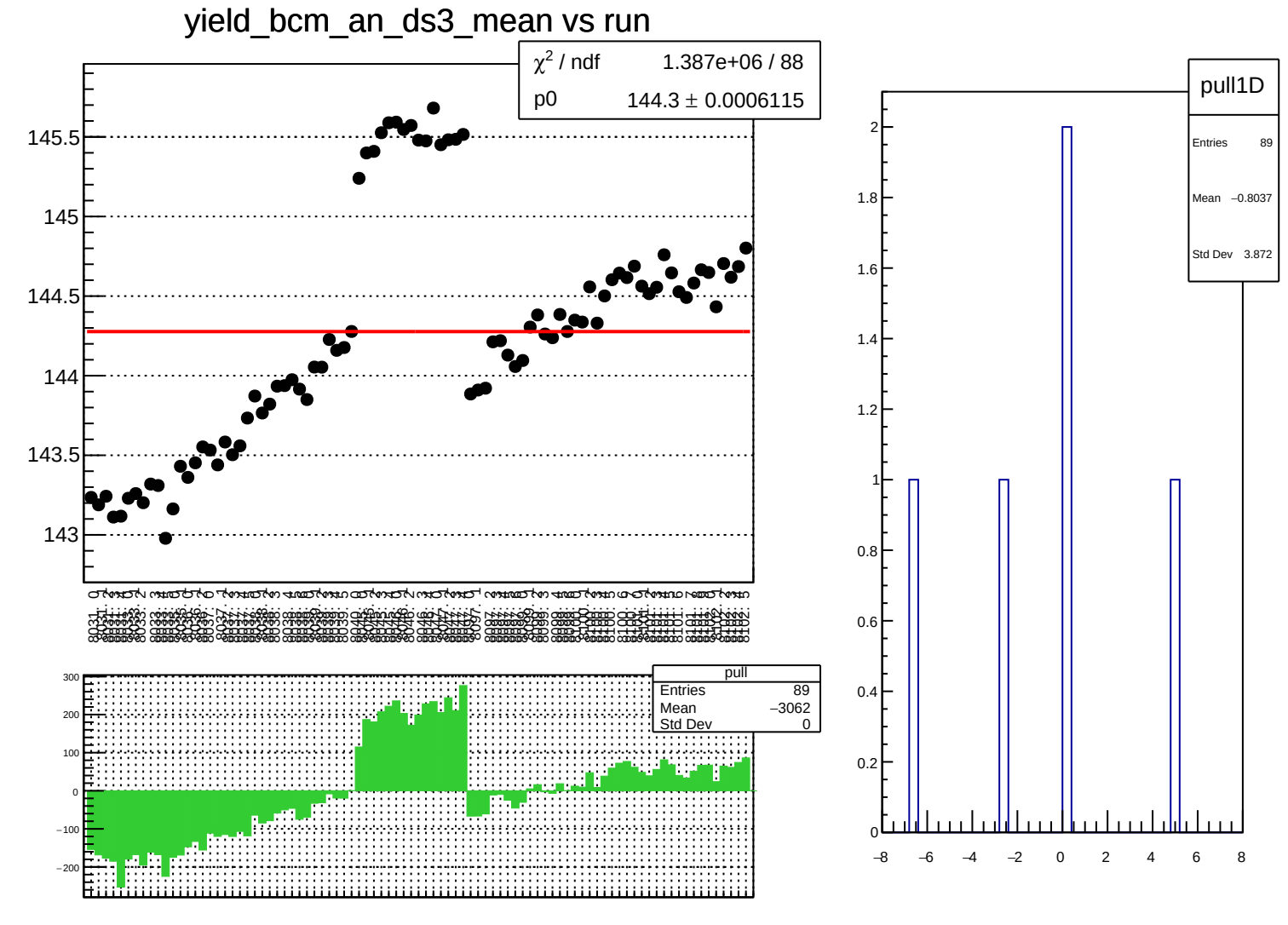

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

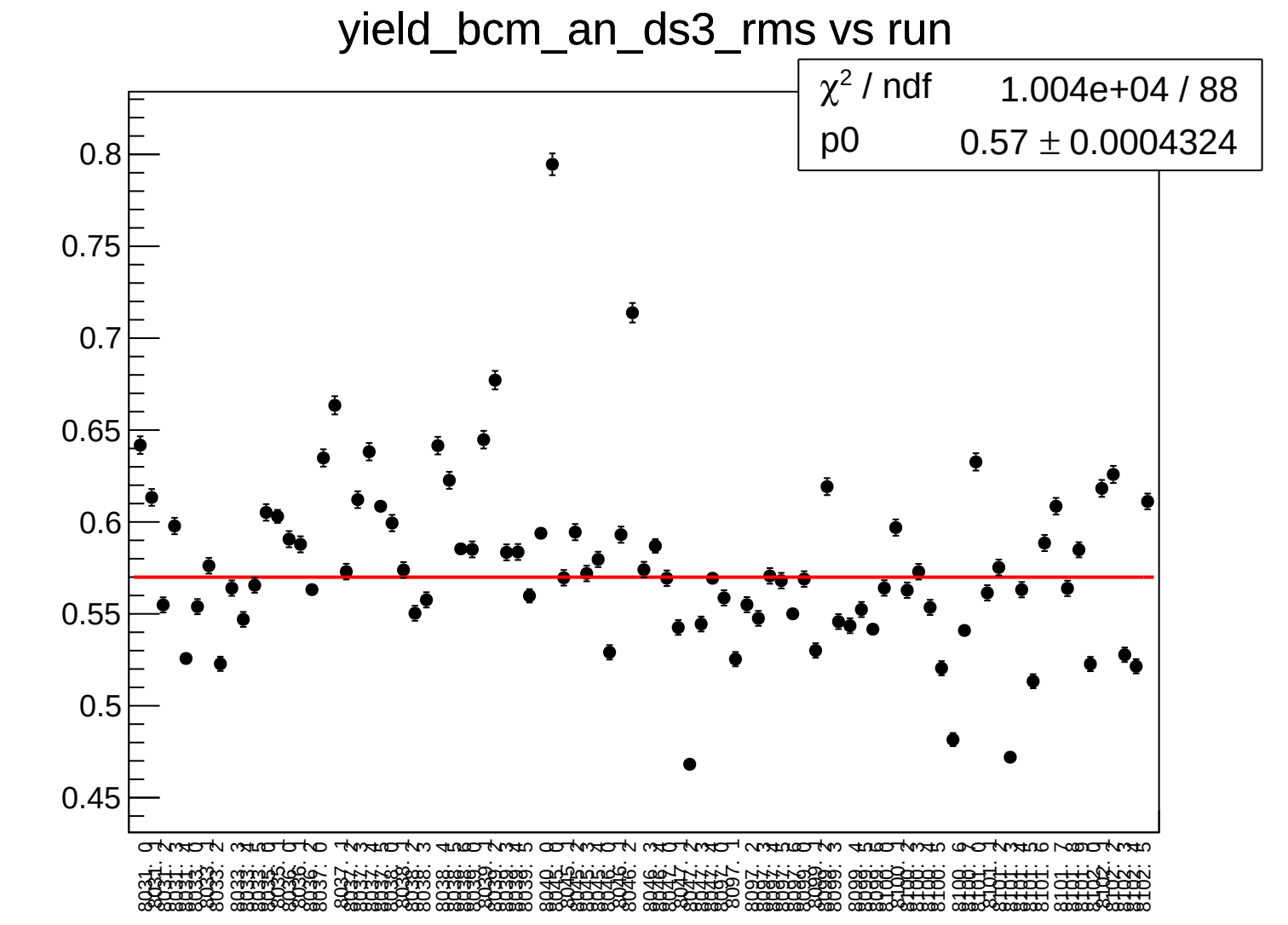

yield_bcm_an_diff_rms vs run
$\chi^2$ / ndf 7.92e+04 / 88
p0 5298 ± 4.102
11000
10000
9000
8000
7000
6000
5000
4000

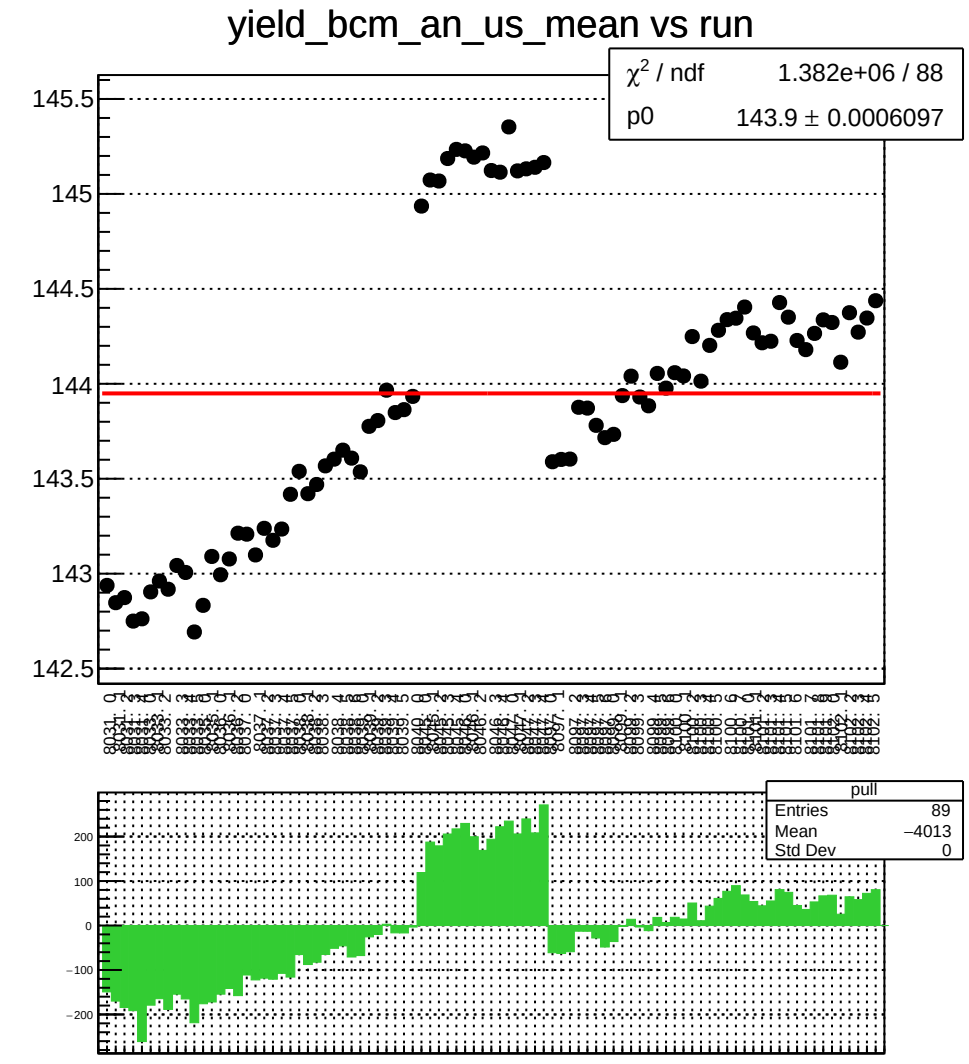

yield_bcm_an_ds_mean vs run
χ² / ndf 1.429e+06 / 88
p0 144.1± 0.0006079
145.5
145
144.5
144
143.5
143
142.5
pull
Entries 89
Mean −2623
Std Dev 0
300
200
100
0
−100
−200

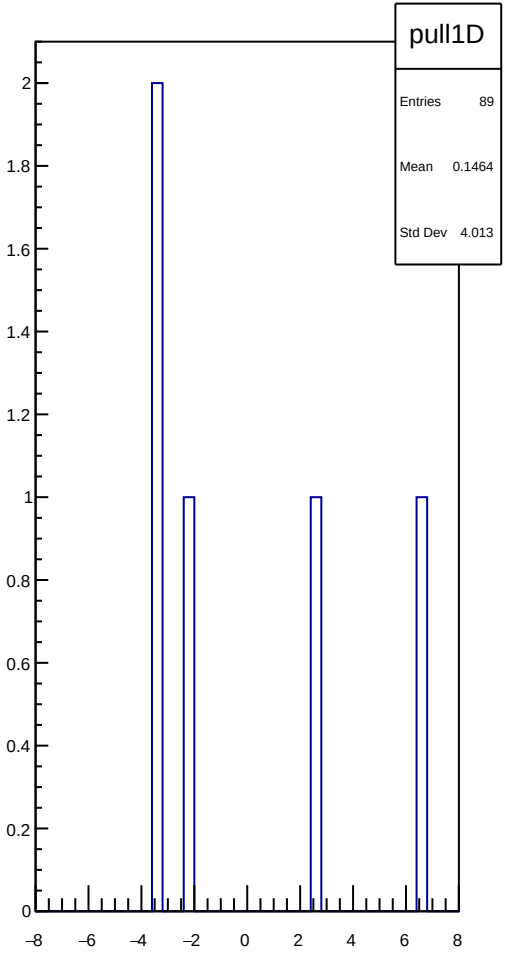

pull1D
Entries 89
Mean −1.248
Std Dev 4.524
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

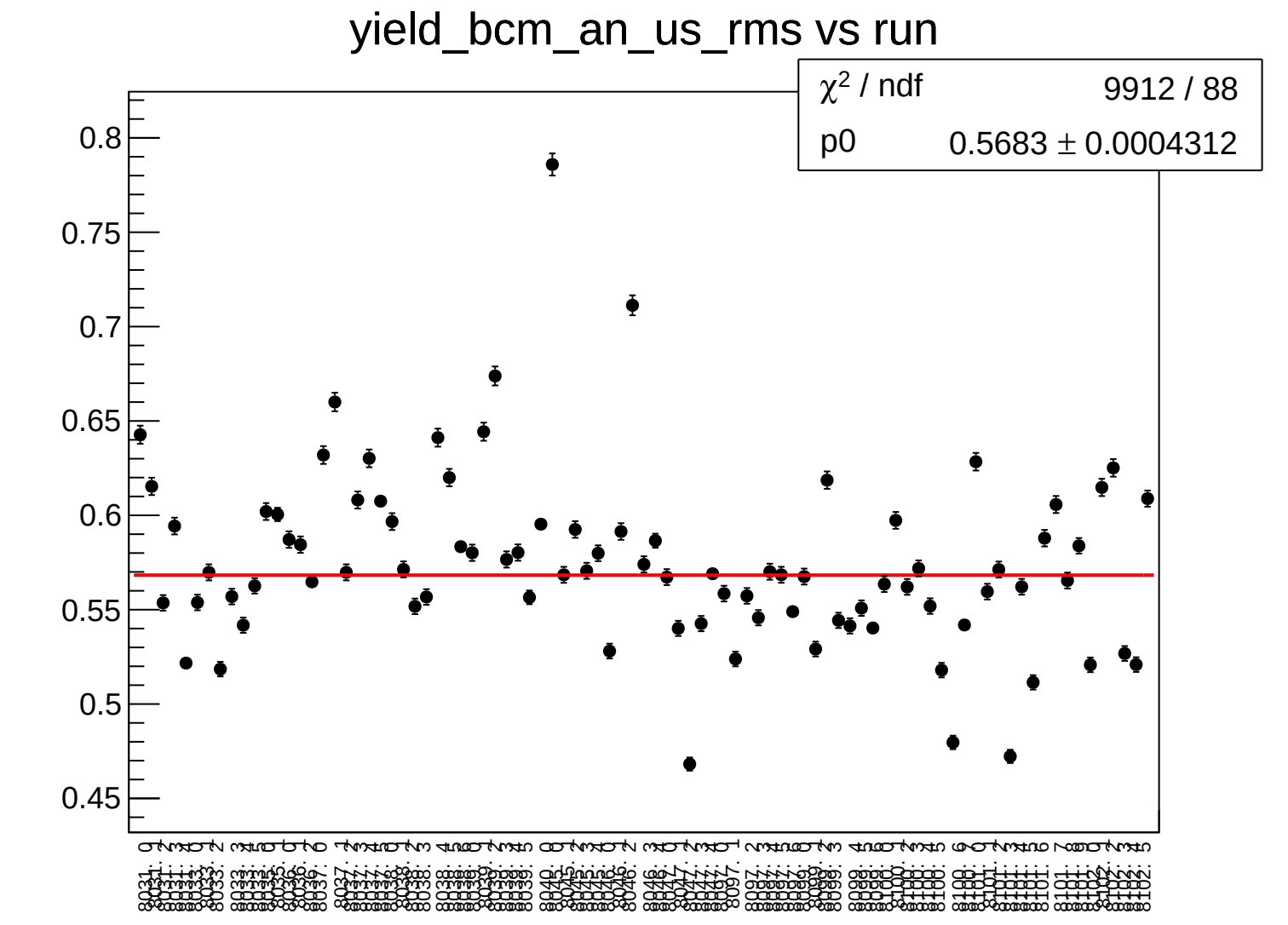

yield_bcm_an_ds_rms vs run
χ² / ndf 1.004e+04 / 88
p0 0.5666 ± 0.0004298
0.8
0.75
0.7
0.65
0.6
0.55
0.5
0.45

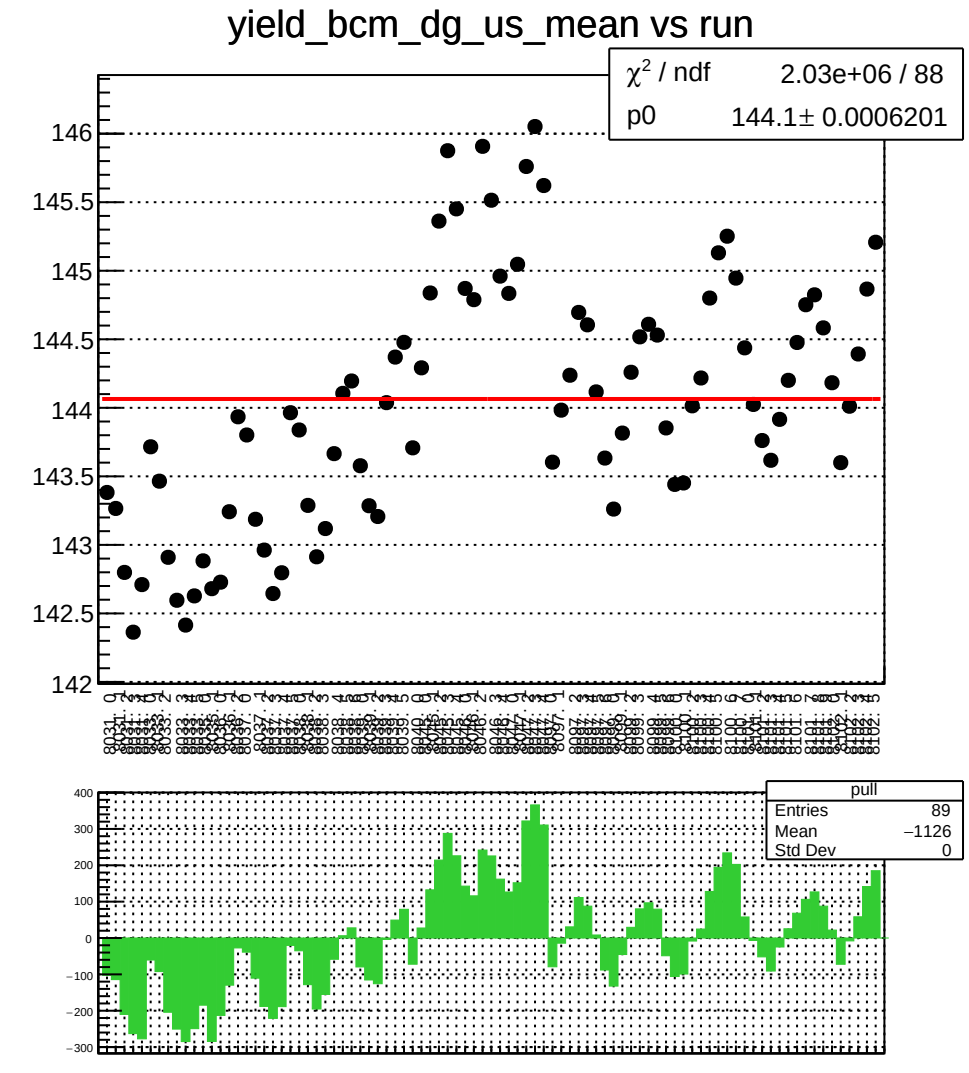

yield_bcm_an_ds3_mean vs run
χ² / ndf 1.387e+06 / 88
p0 144.3 ± 0.0006115
145.5
145
144.5
144
143.5
143
pull
Entries 89
Mean −3062
Std Dev 0
300
200
100
0
−100
−200
pull1D
Entries 89
Mean −0.8037
Std Dev 3.872
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

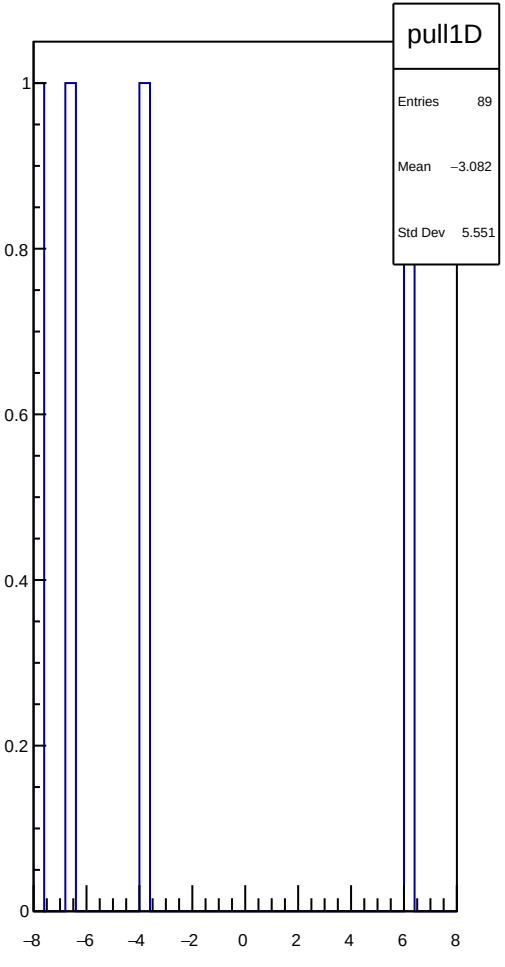

yield_bcm_an_ds3_rms vs run
$\chi^2$ / ndf 1.004e+04 / 88
p0 0.57 ± 0.0004324
0.8
0.75
0.7
0.65
0.6
0.55
0.5
0.45

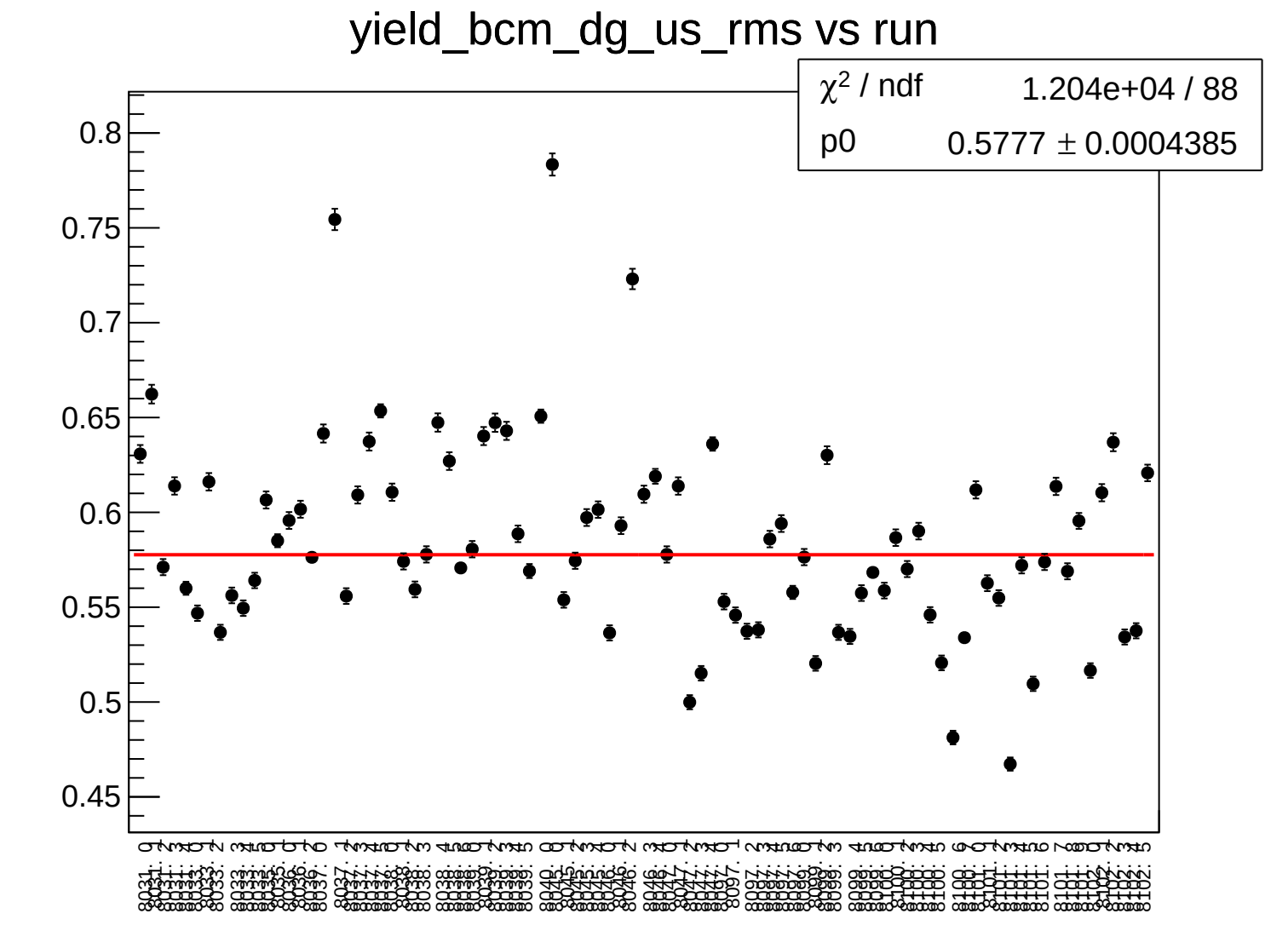

yield_bcm_an_us_mean vs run
χ² / ndf 1.382e+06 / 88
p0 143.9 ± 0.0006097
145.5
145
144.5
144
143.5
143
142.5
pull
Entries 89
Mean −4013
Std Dev 0
200
100
0
−100
−200

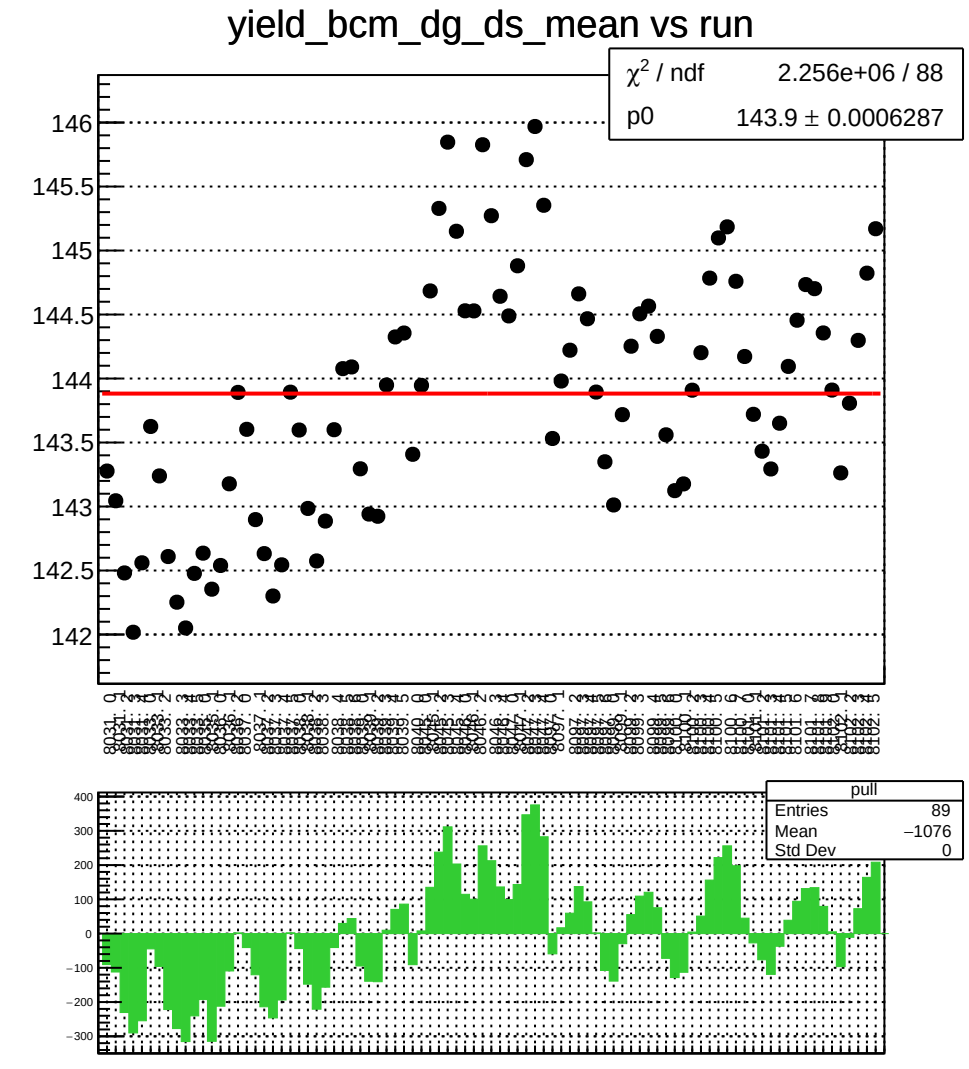

pull1D
Entries 89
Mean 0.1464
Std Dev 4.013
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

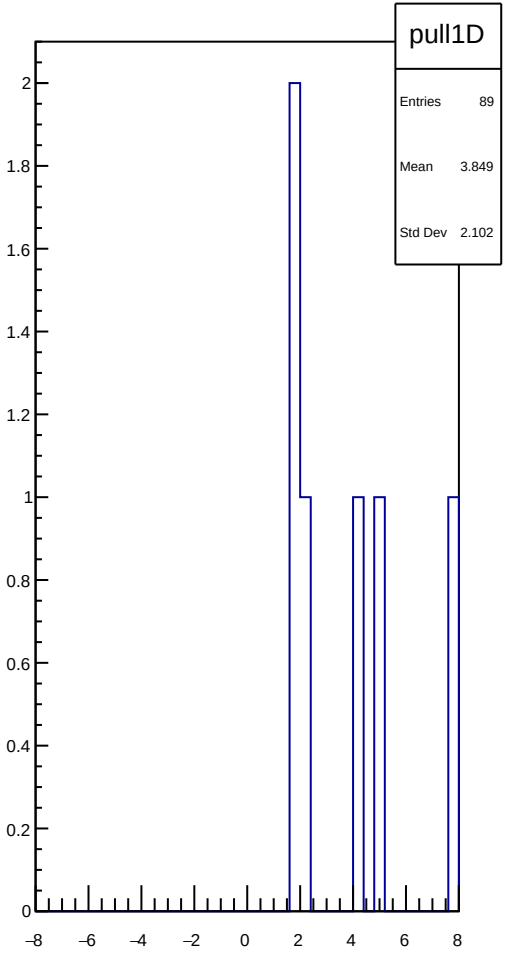

yield_bcm_an_us_rms vs run
χ² / ndf 9912 / 88
p0 0.5683 ± 0.0004312
0.8
0.75
0.7
0.65
0.6
0.55
0.5
0.45

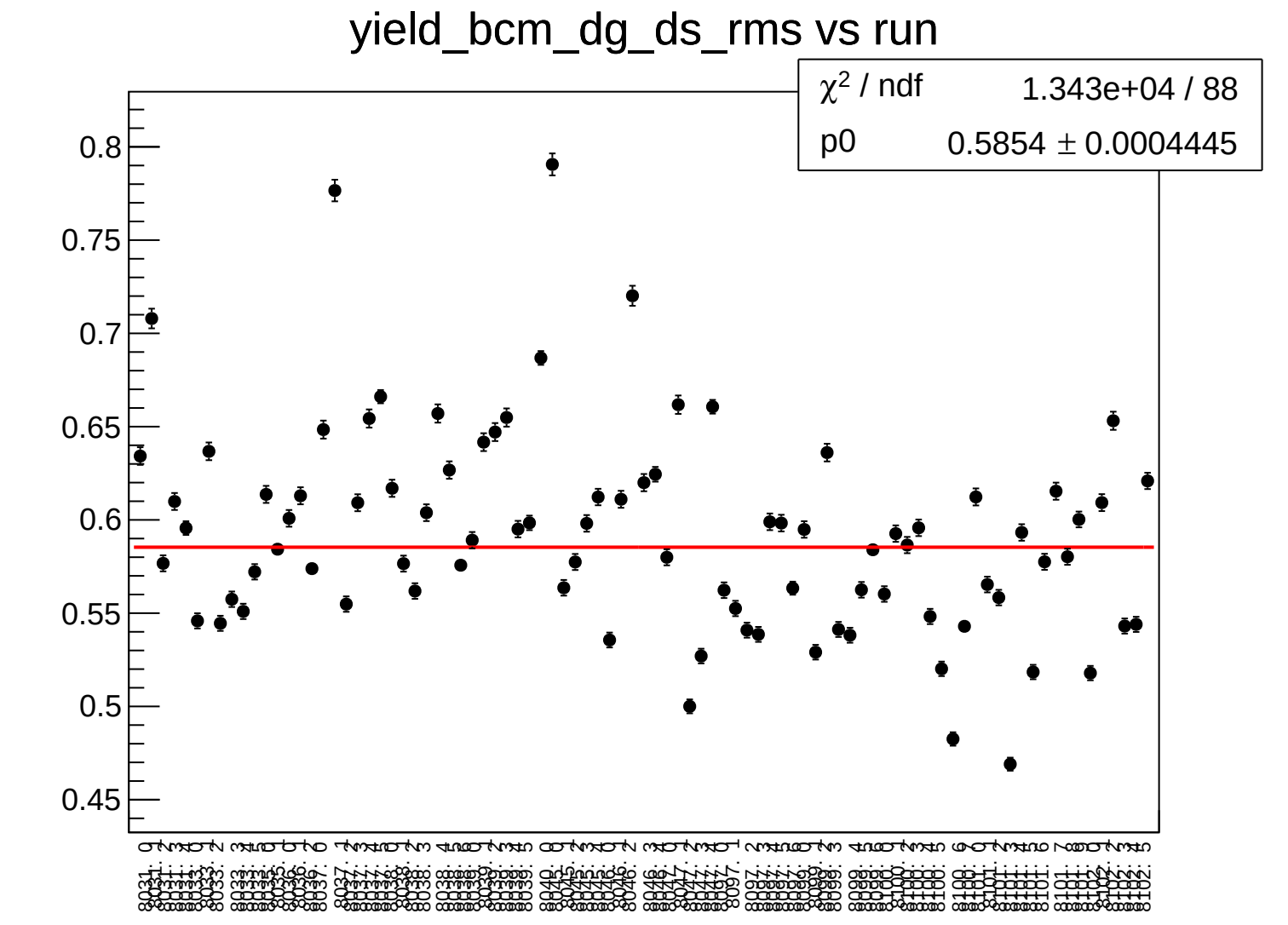

yield_bcm_dg_us_mean vs run
χ² / ndf 2.03e+06 / 88
p0 144.1± 0.0006201
146
145.5
145
144.5
144
143.5
143
142.5
142
pull
Entries 89
Mean −1126
Std Dev 0
400
300
200
100
0
−100
−200
−300

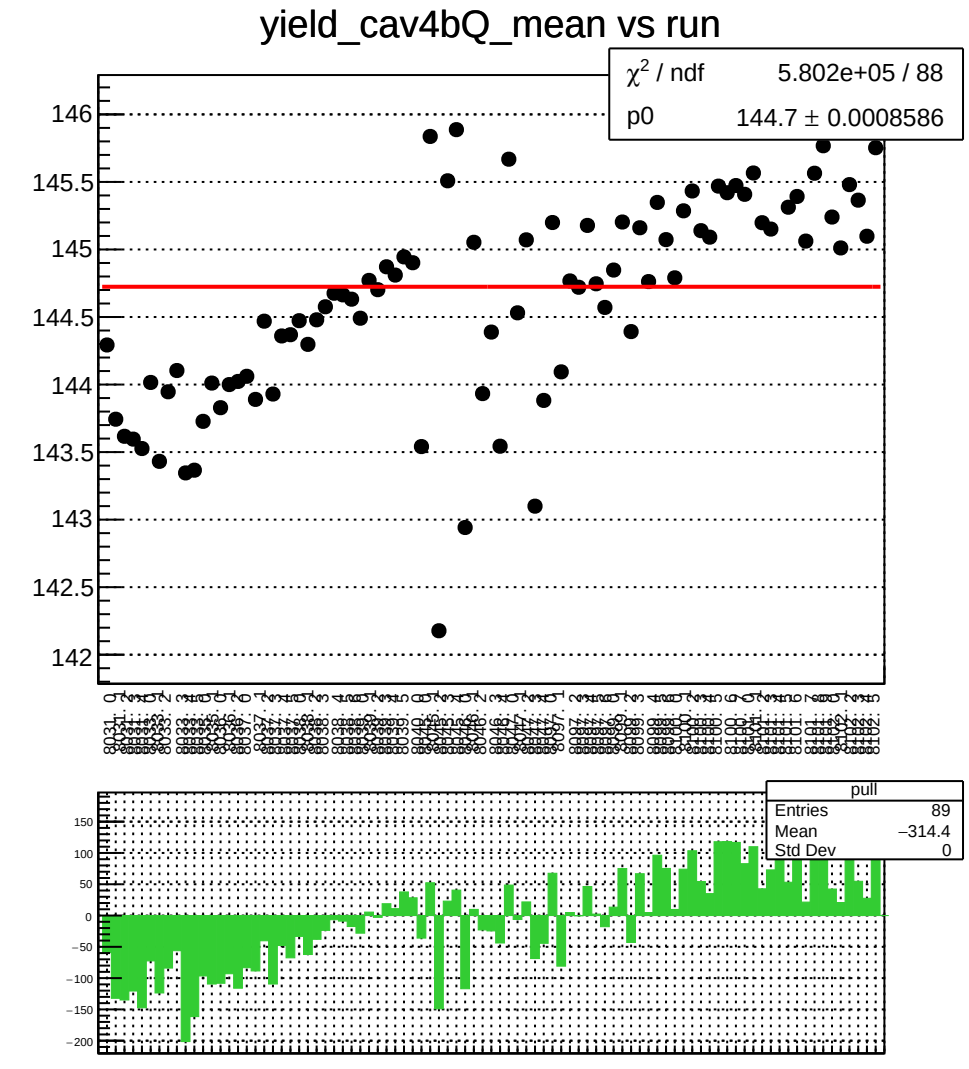

pull1D
Entries 89
Mean −3.082
Std Dev 5.551
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

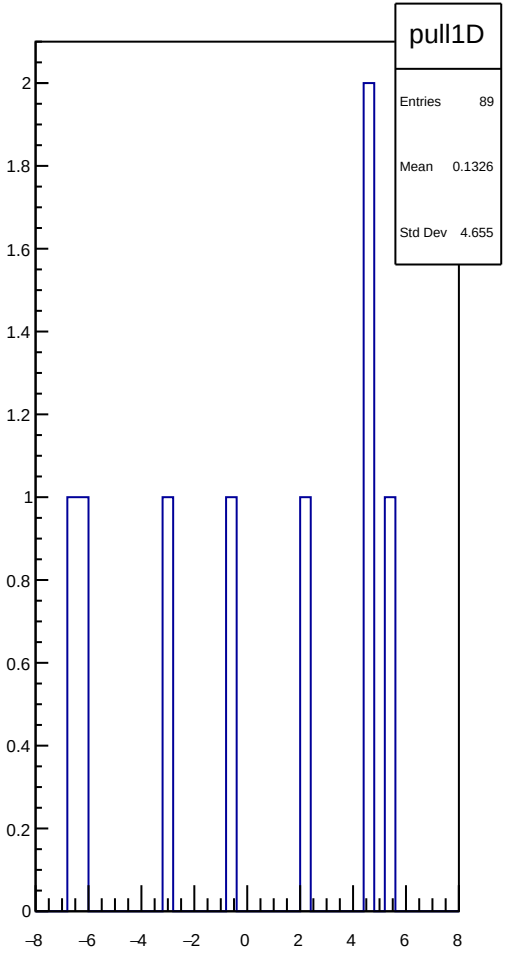

yield_bcm_dg_us_rms vs run
χ² / ndf 1.204e+04 / 88
p0 0.5777 ± 0.0004385
0.8
0.75
0.7
0.65
0.6
0.55
0.5
0.45

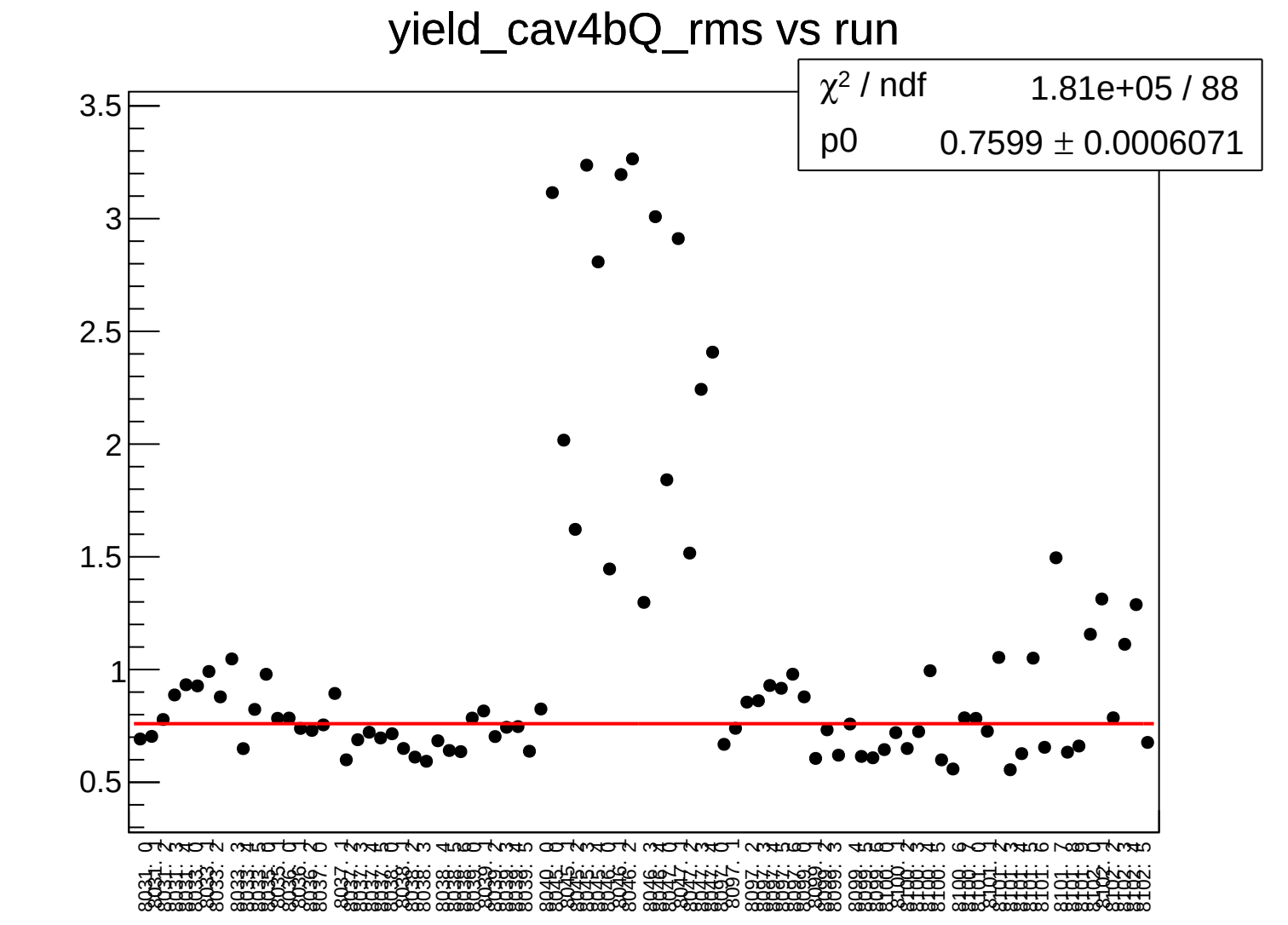

yield_bcm_dg_ds_mean vs run
χ² / ndf 2.256e+06 / 88
p0 143.9 ± 0.0006287
146
145.5
145
144.5
144
143.5
143
142.5
142
pull
Entries 89
Mean −1076
Std Dev 0
400
300
200
100
0
−100
−200
−300

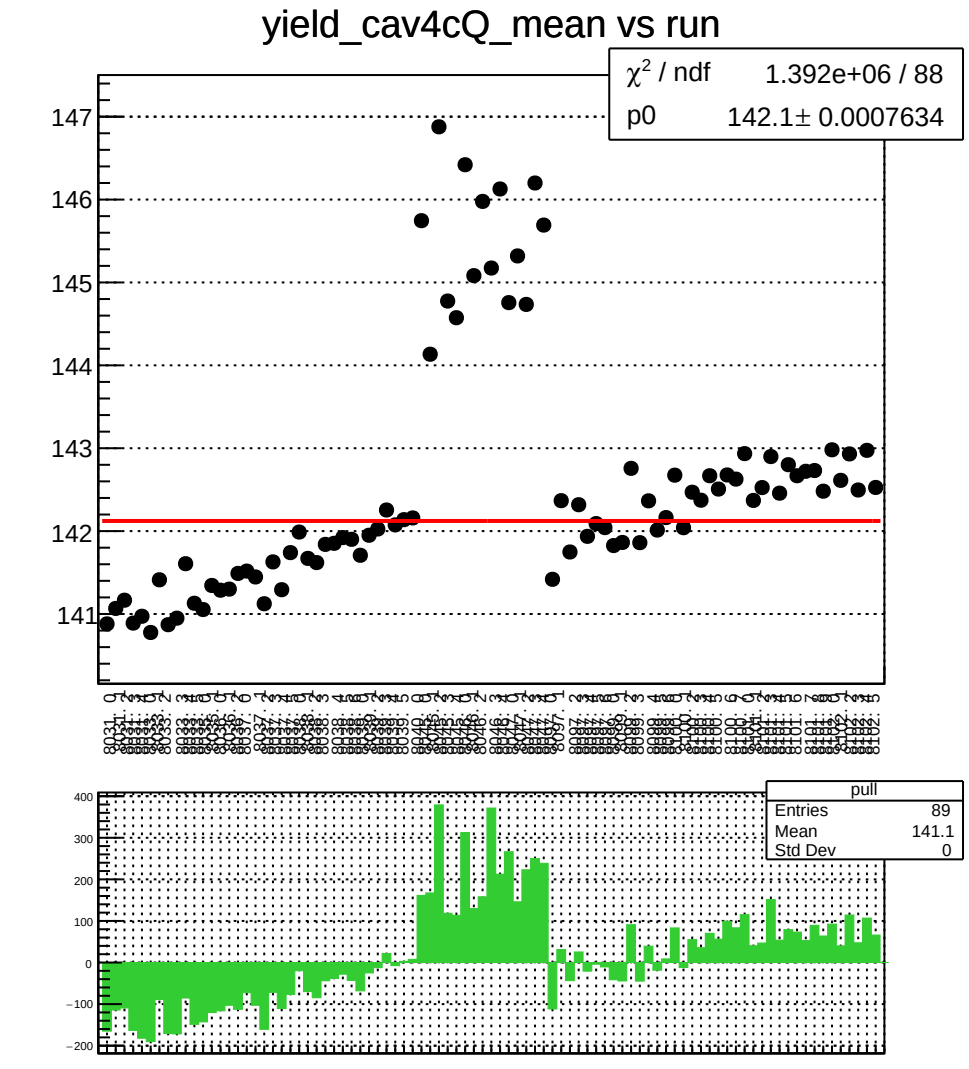

pull1D
Entries 89
Mean 3.849
Std Dev 2.102
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

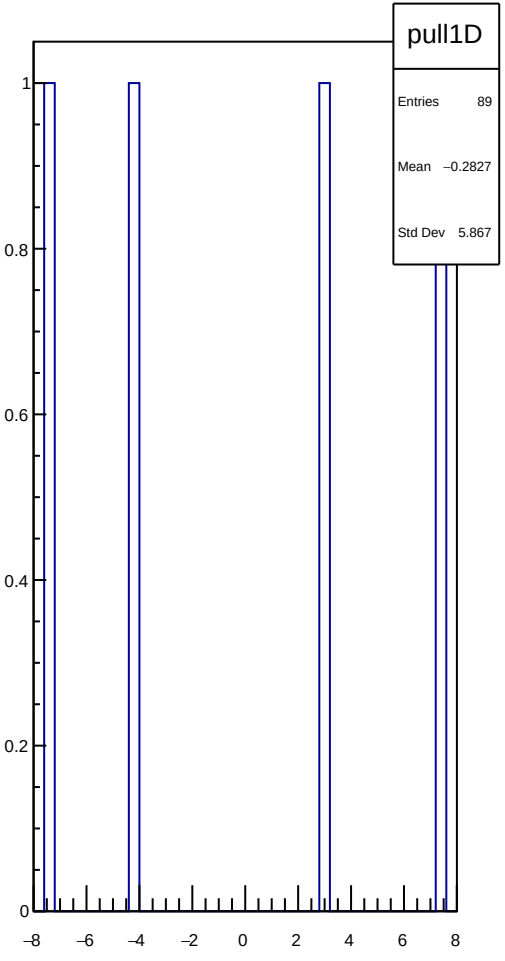

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.343e+04 / 88
p0 0.5854 ± 0.0004445
0.8
0.75
0.7
0.65
0.6
0.55
0.5
0.45

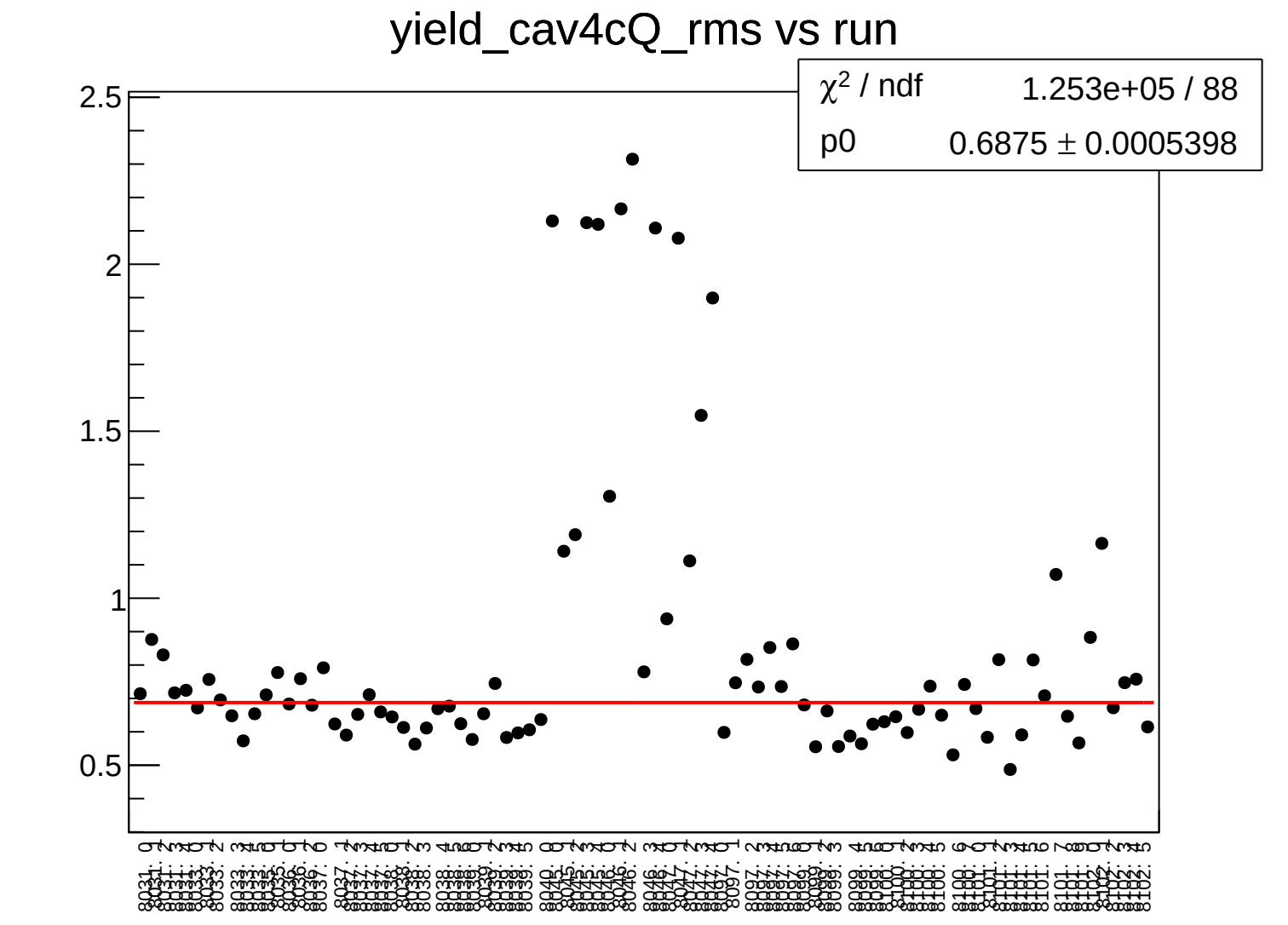

yield_cav4bQ_mean vs run
χ² / ndf 5.802e+05 / 88
p0 144.7 ± 0.0008586
146
145.5
145
144.5
144
143.5
143
142.5
142
pull
Entries 89
Mean −314.4
Std Dev 0
150
100
50
0
−50
−100
−150
−200

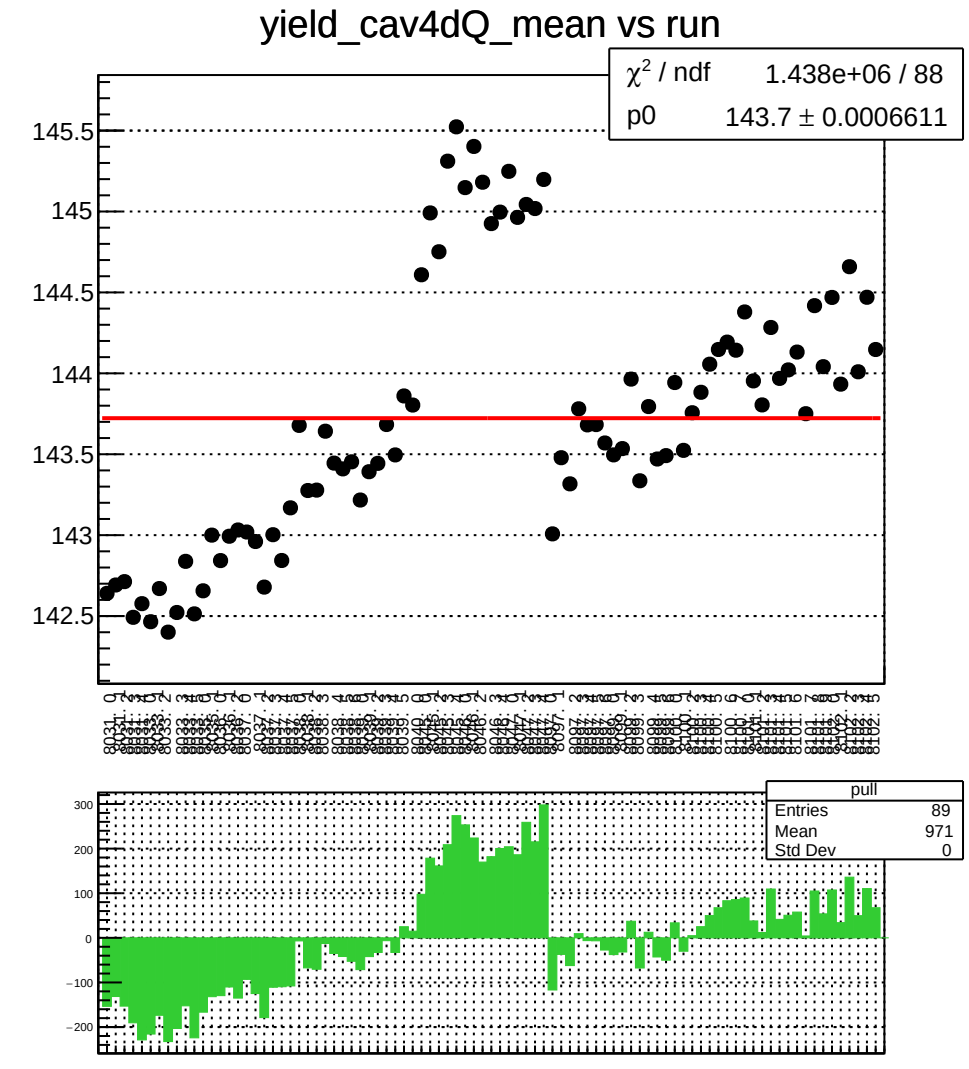

pull1D
Entries 89
Mean 0.1326
Std Dev 4.655
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

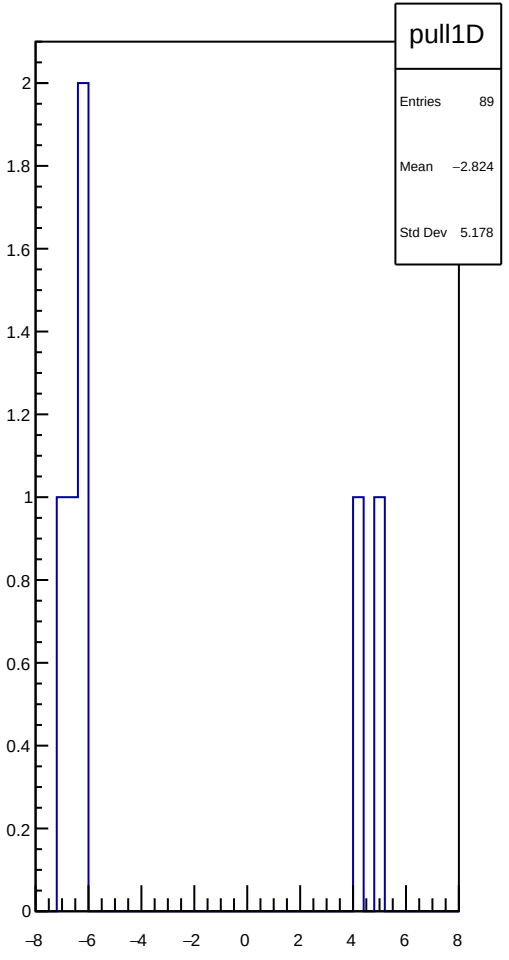

yield_cav4bQ_rms vs run
χ² / ndf 1.81e+05 / 88
p0 0.7599 ± 0.0006071
3.5
3
2.5
2
1.5
1
0.5

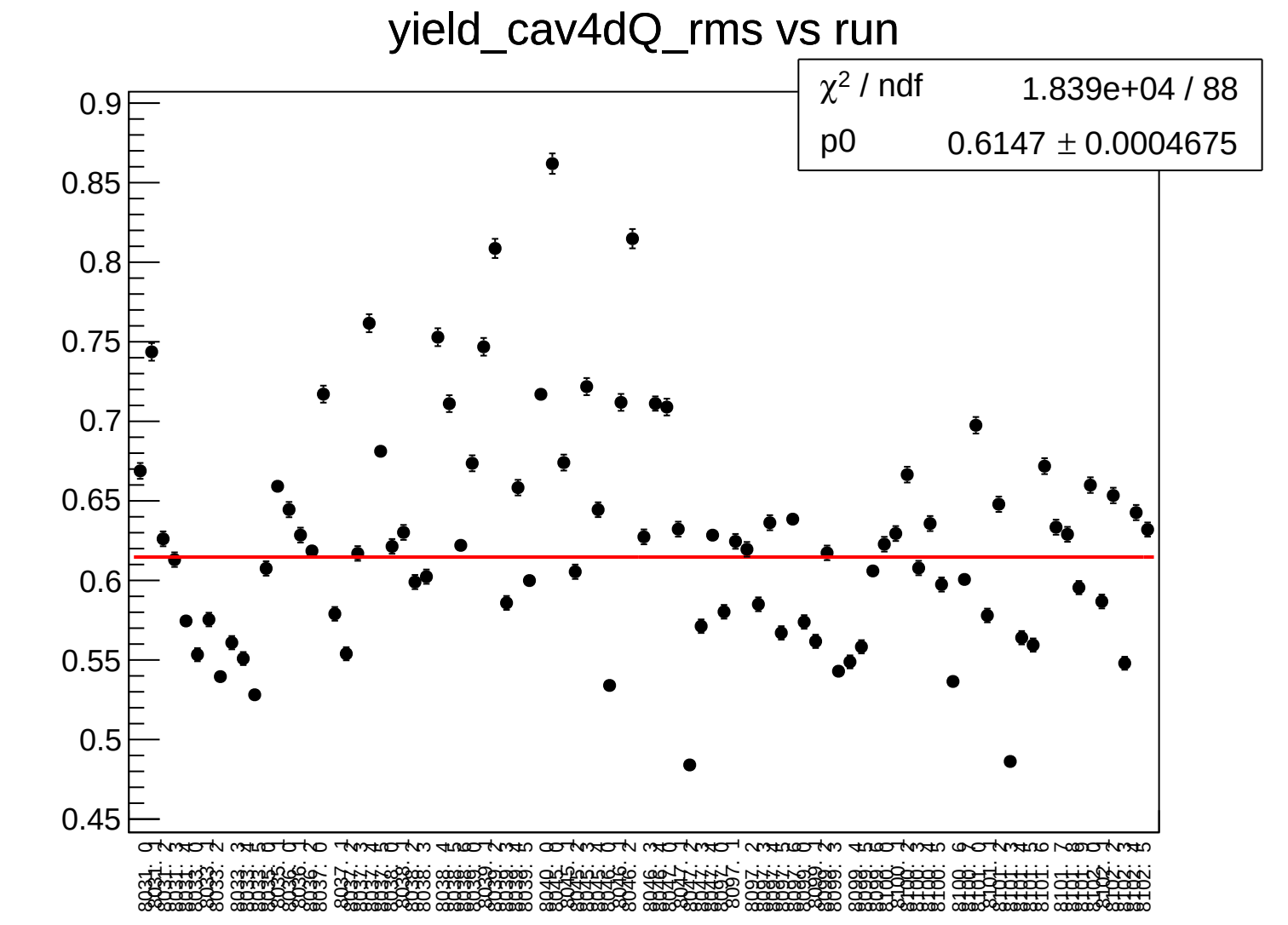

yield_cav4cQ_mean vs run
χ² / ndf 1.392e+06 / 88
p0 142.1± 0.0007634
147
146
145
144
143
142
141
pull
Entries 89
Mean 141.1
Std Dev 0
400
300
200
100
0
−100
−200

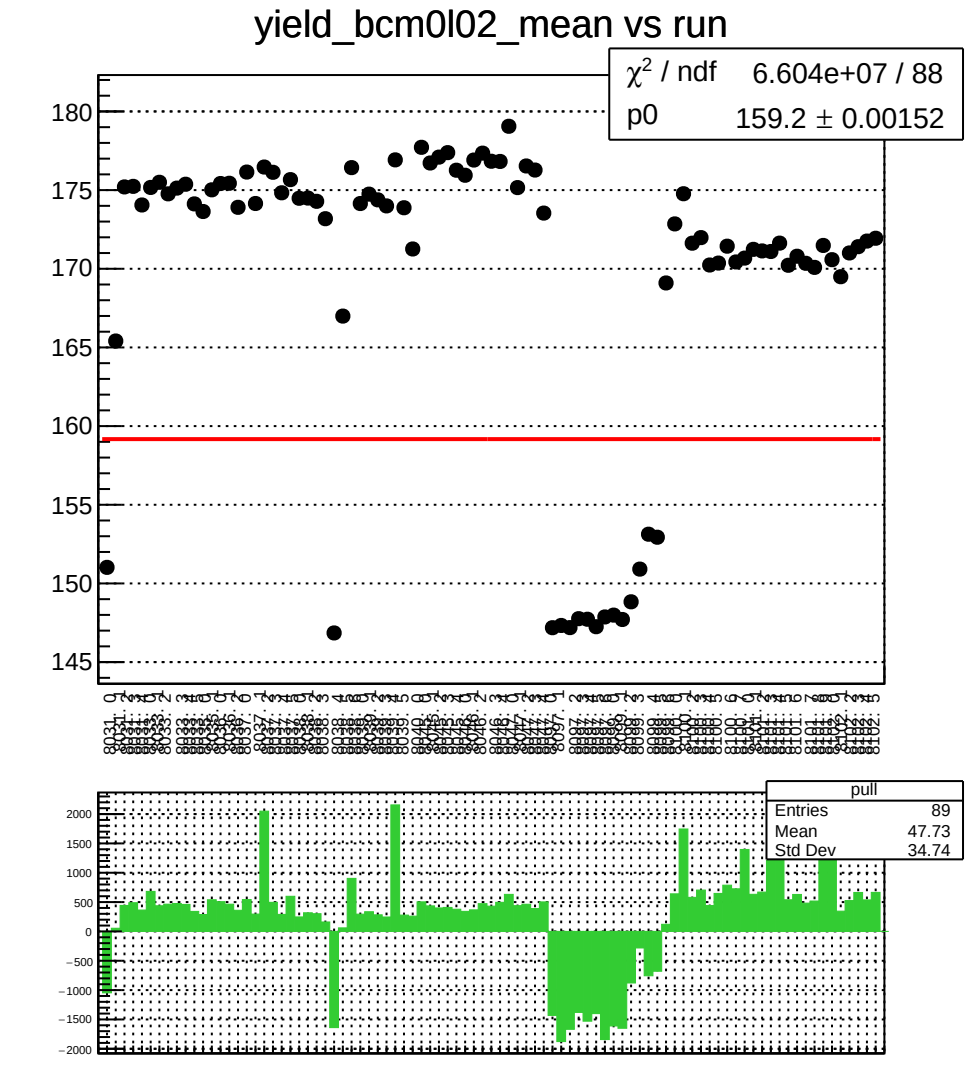

pull1D
Entries 89
Mean −0.2827
Std Dev 5.867
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

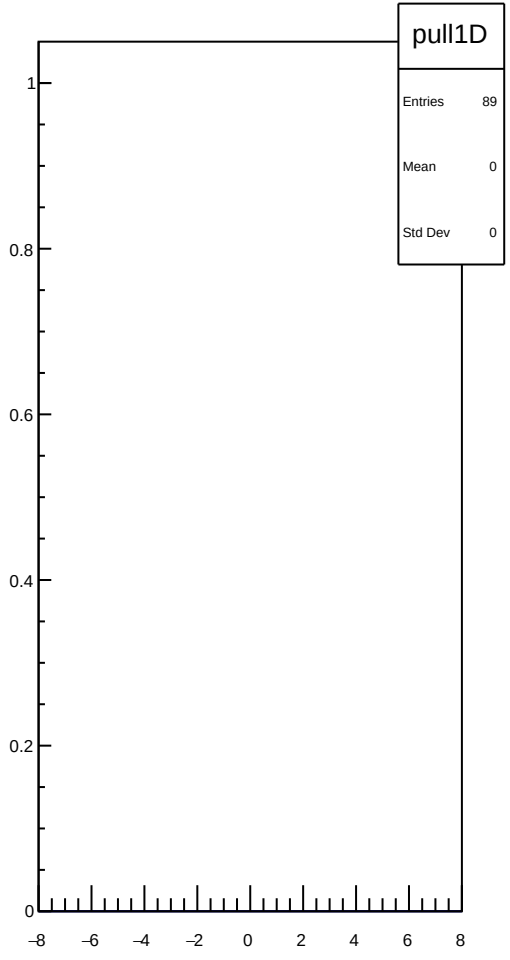

yield_cav4cQ_rms vs run
χ² / ndf 1.253e+05 / 88
p0 0.6875 ± 0.0005398
2.5
2
1.5
1
0.5

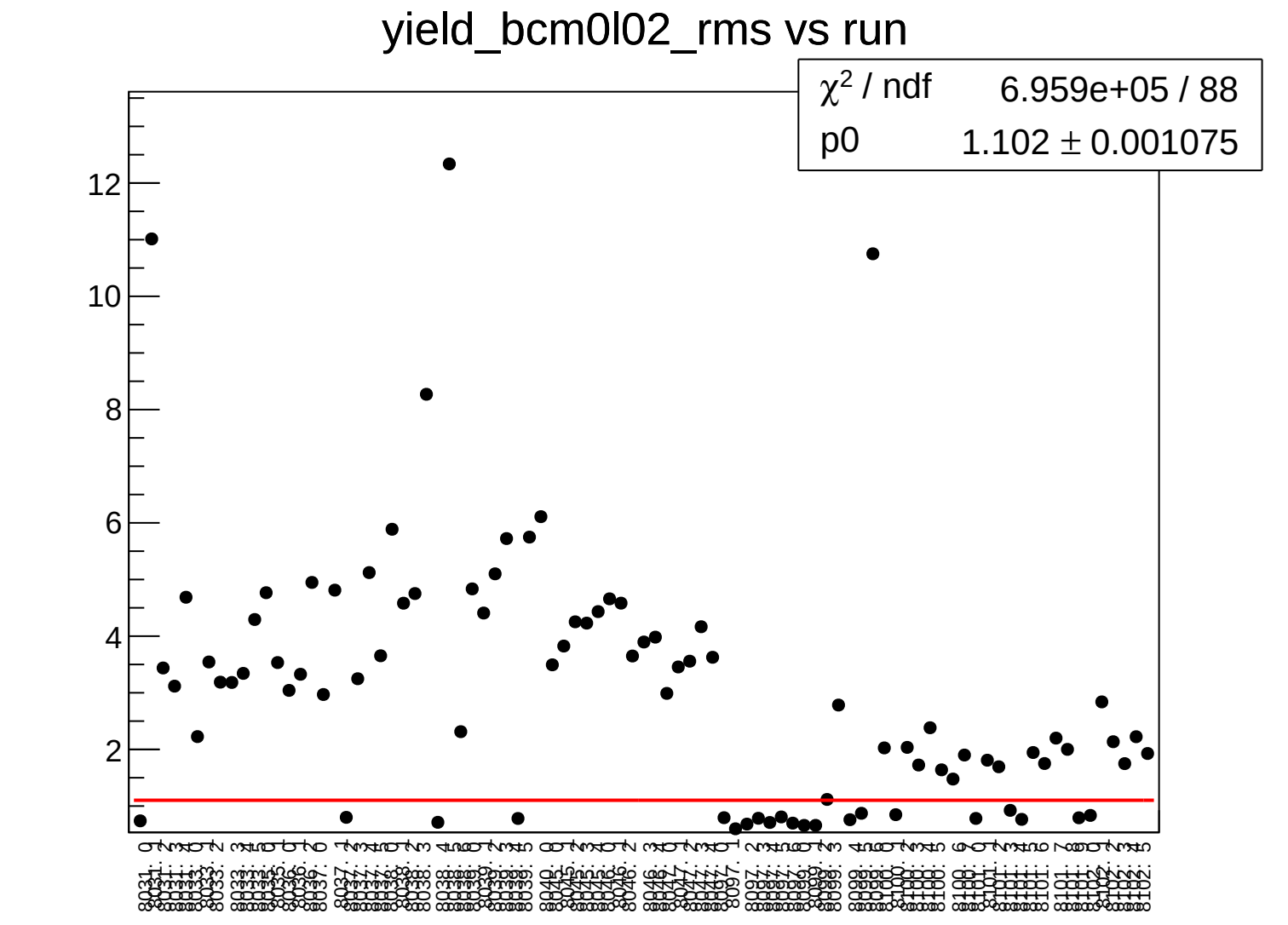

yield_cav4dQ_mean vs run
χ² / ndf 1.438e+06 / 88
p0 143.7 ± 0.0006611
145.5
145
144.5
144
143.5
143
142.5
pull
Entries 89
Mean 971
Std Dev 0
300
200
100
0
−100
−200

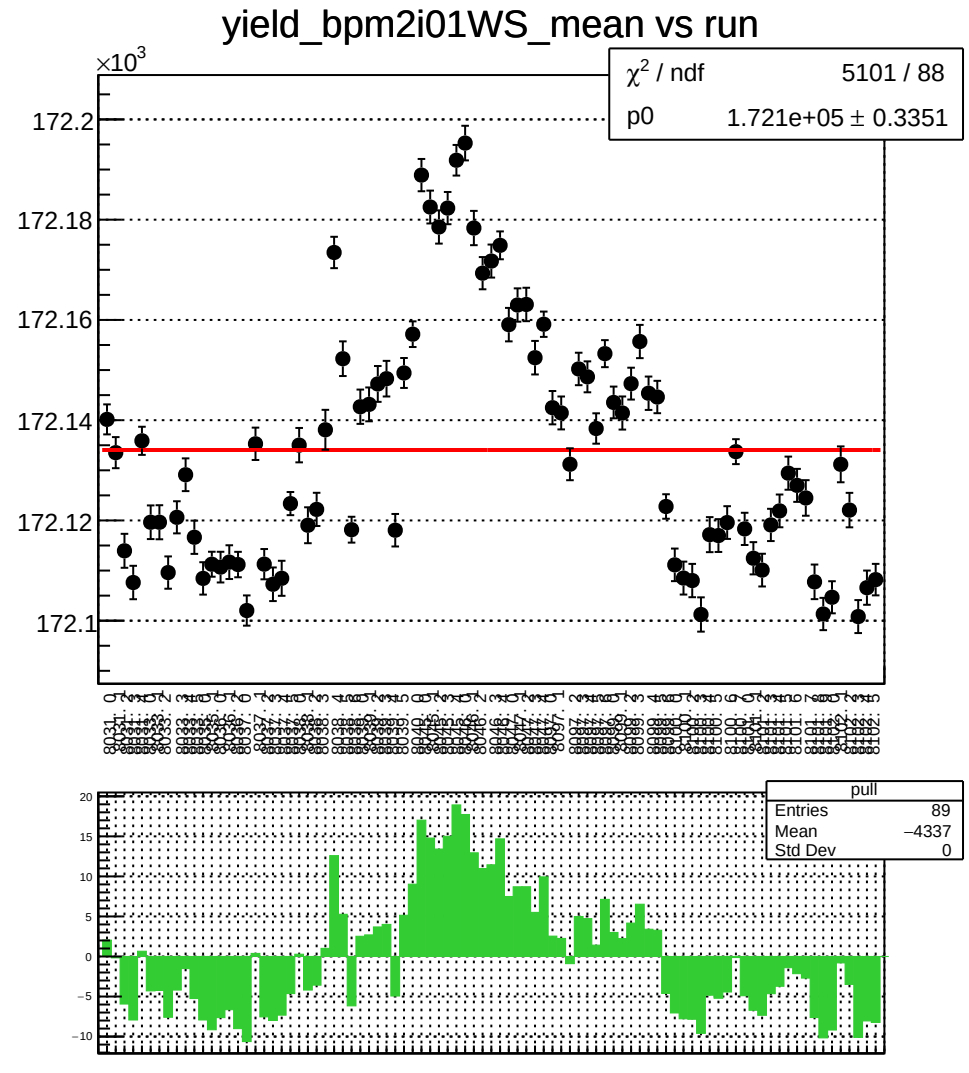

pull1D
Entries 89
Mean −2.824
Std Dev 5.178
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

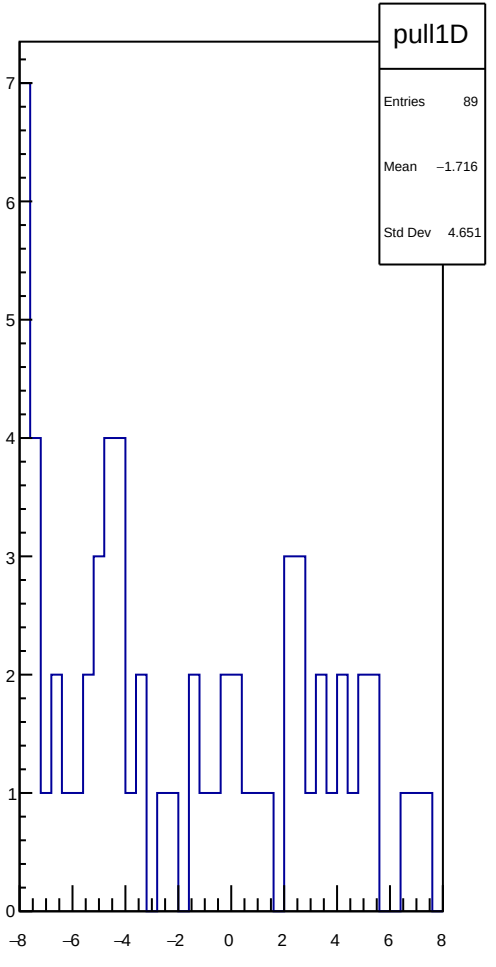

yield_cav4dQ_rms vs run
χ² / ndf 1.839e+04 / 88
p0 0.6147 ± 0.0004675
0.9
0.85
0.8
0.75
0.7
0.65
0.6
0.55
0.5
0.45

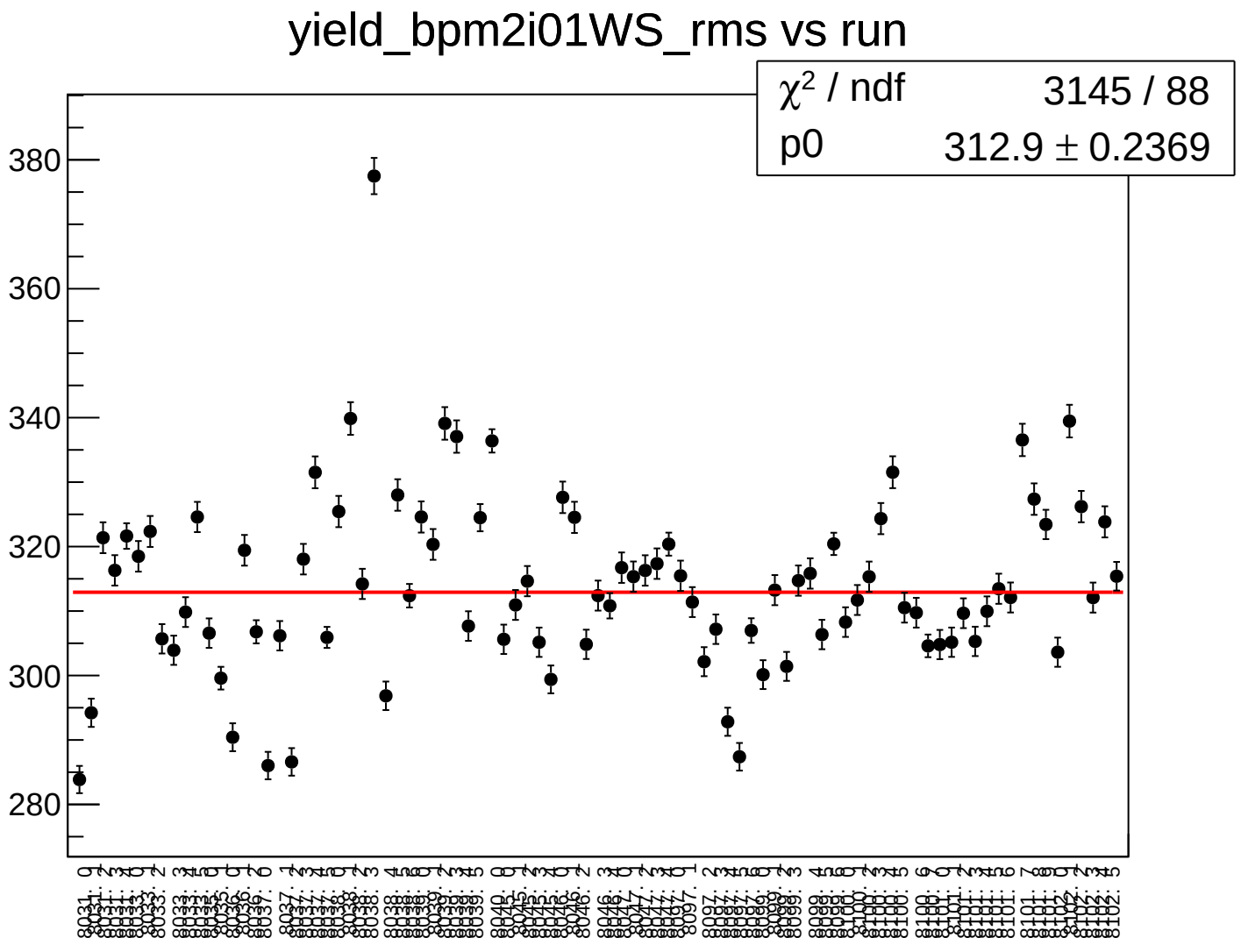

yield_bcm0l02_mean vs run
χ² / ndf 6.604e+07 / 88
p0 159.2 ± 0.00152
180
175
170
165
160
155
150
145
pull
Entries 89
Mean 47.73
Std Dev 34.74
2000
1500
1000
500
0
−500
−1000
−1500
−2000

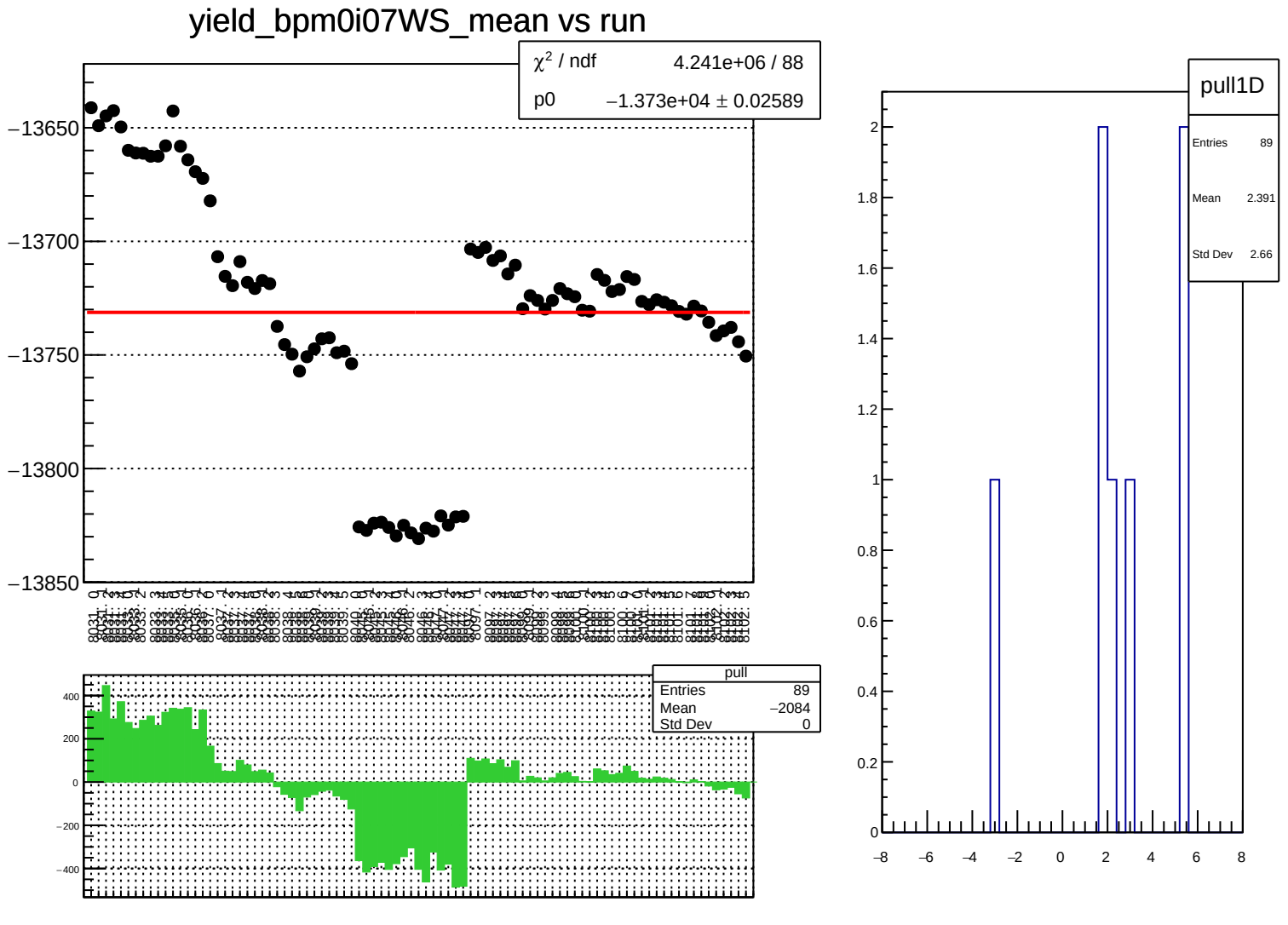

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

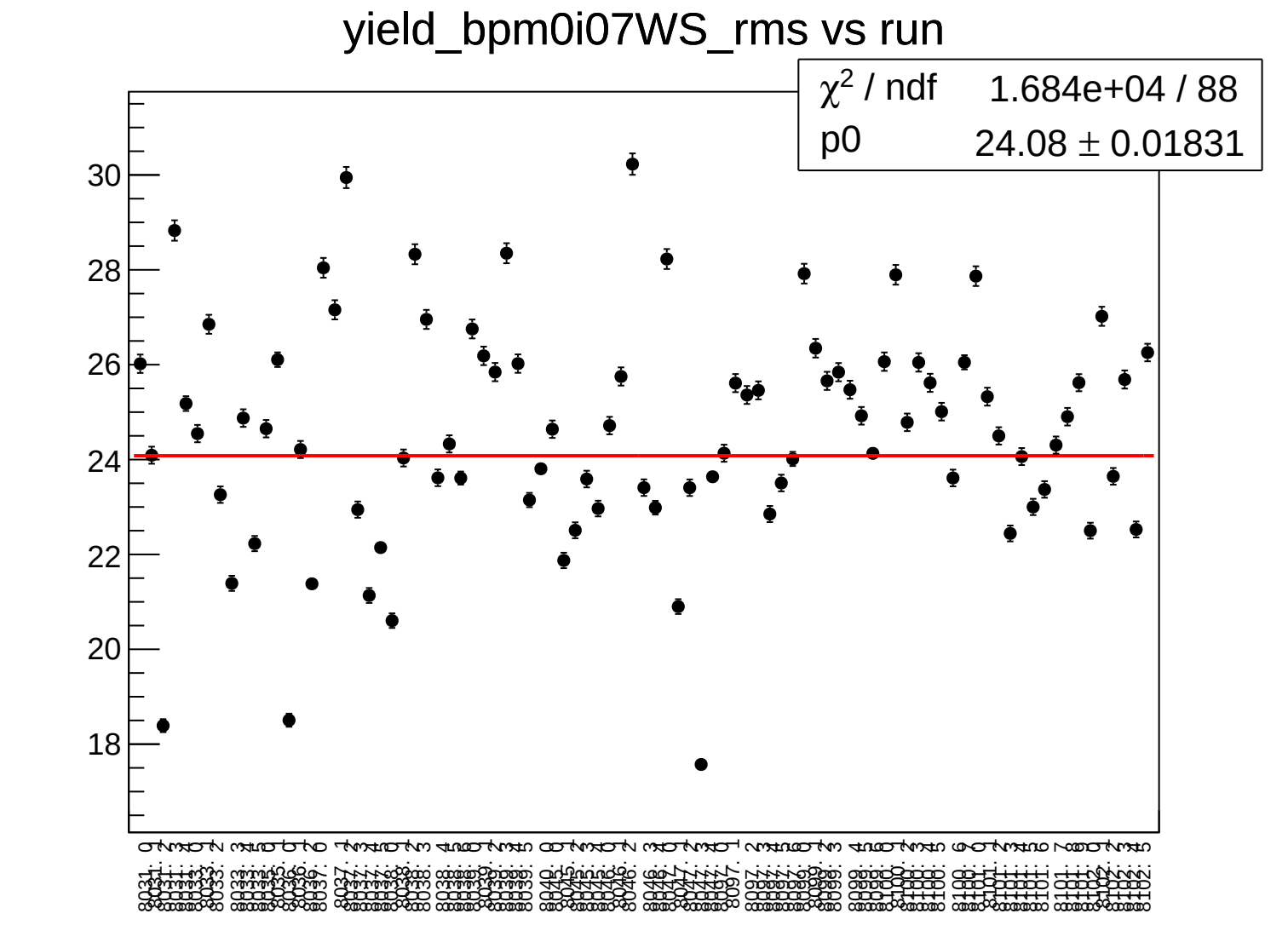

yield_bcm0l02_rms vs run
χ² / ndf 6.959e+05 / 88
p0 1.102 ± 0.001075
12
10
8
6
4
2

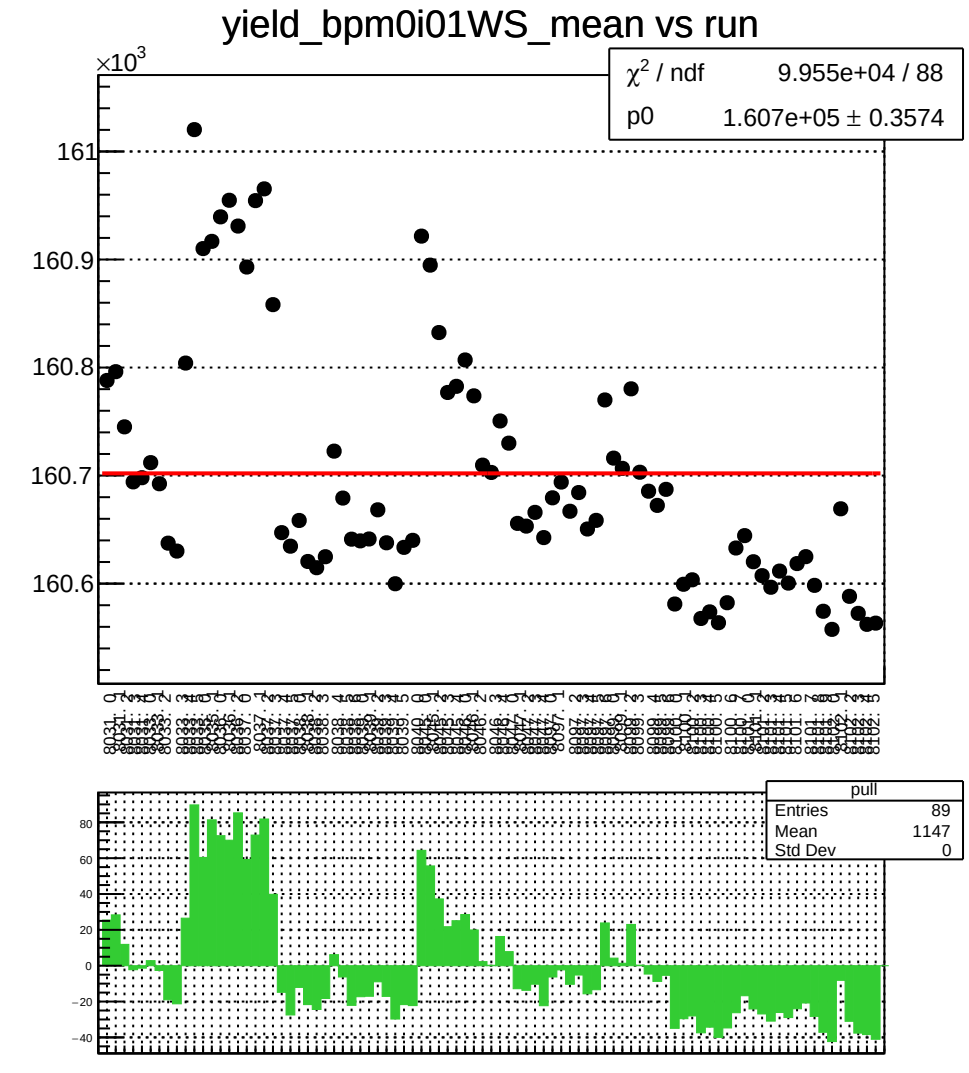

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 5101 / 88
p0 1.721e+05 ± 0.3351
172.2
172.18
172.16
172.14
172.12
172.1
pull
Entries 89
Mean −4337
Std Dev 0
20
15
10
5
0
−5
−10

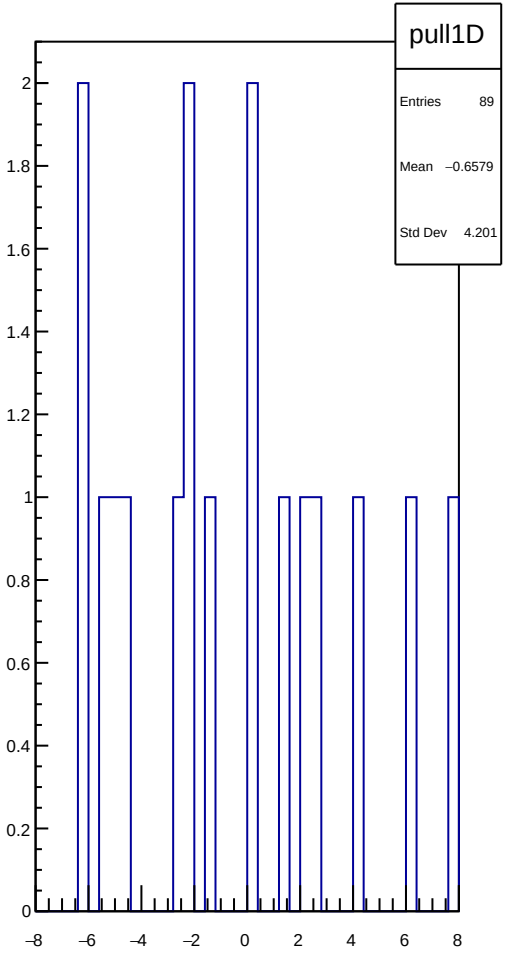

pull1D
Entries 89
Mean −1.716
Std Dev 4.651
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

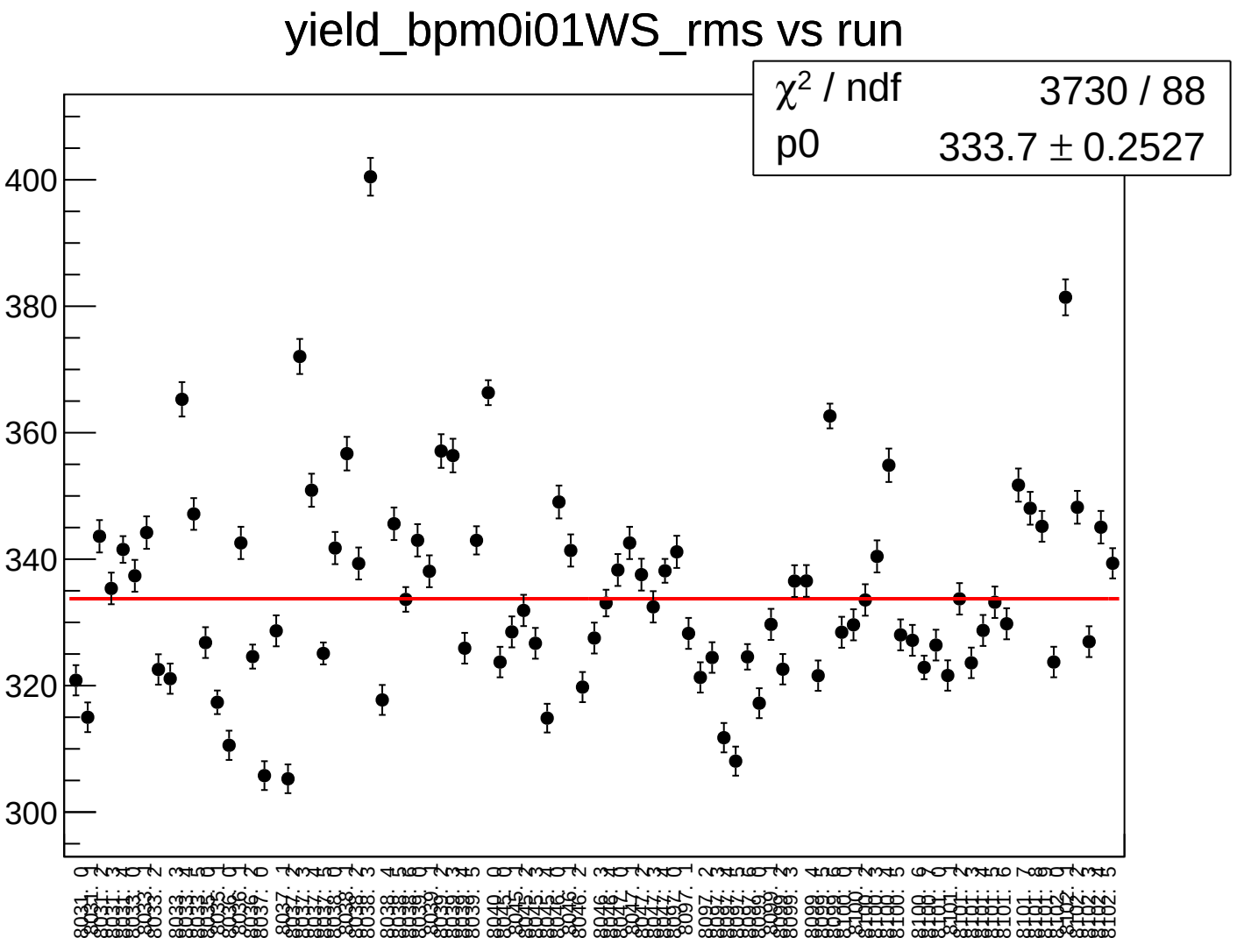

yield_bpm2i01WS_rms vs run
χ² / ndf 3145 / 88
p0 312.9 ± 0.2369
380
360
340
320
300
280

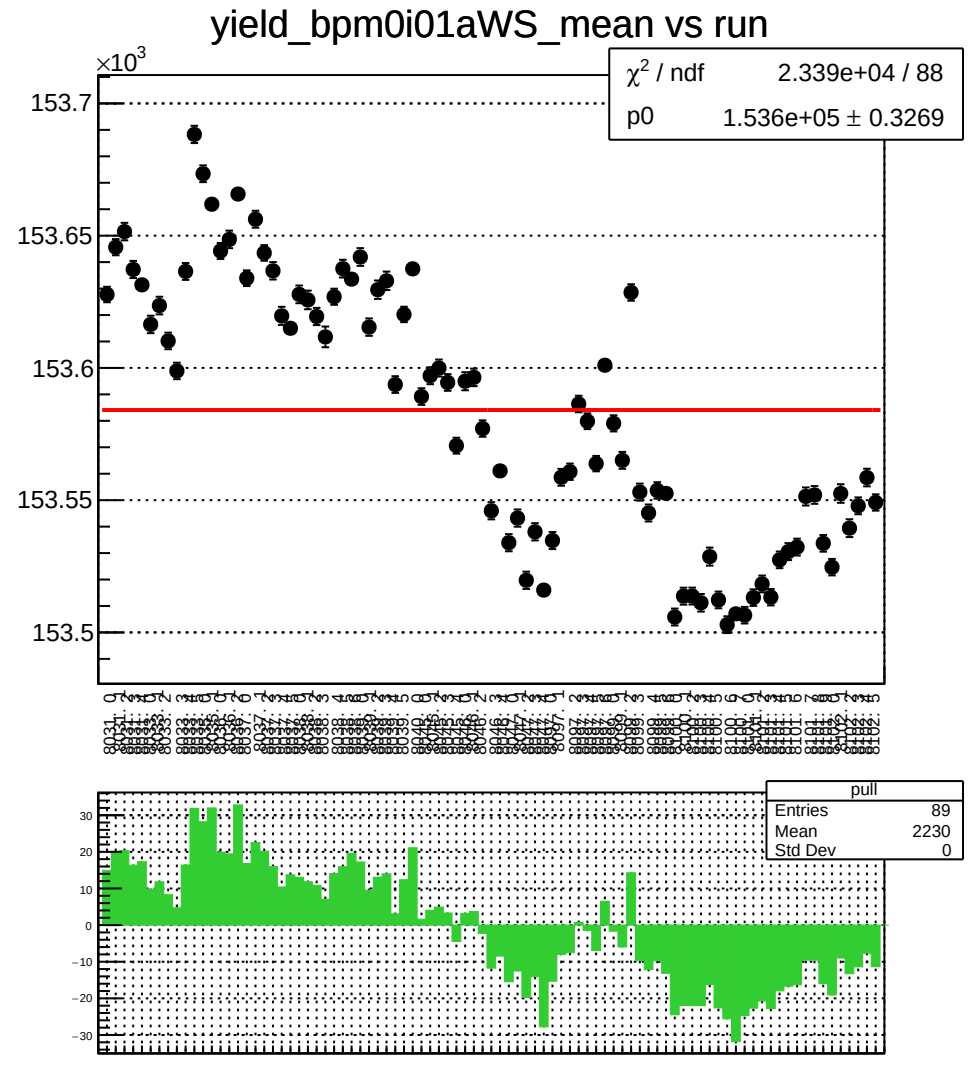

yield_bpm0i07WS_mean vs run
χ² / ndf 4.241e+06 / 88
p0 −1.373e+04 ± 0.02589
−13650
−13700
−13750
−13800
−13850
pull
Entries 89
Mean −2084
Std Dev 0
400
200
0
−200
−400
pull1D
Entries 89
Mean 2.391
Std Dev 2.66
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

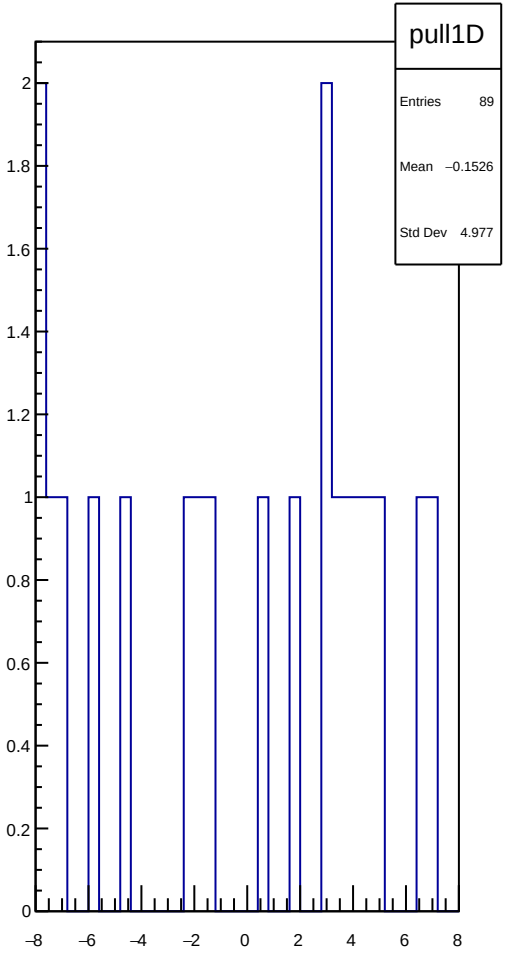

yield_bpm0i07WS_rms vs run
$\chi^2$ / ndf 1.684e+04 / 88
p0 24.08 ± 0.01831
30
28
26
24
22
20
18

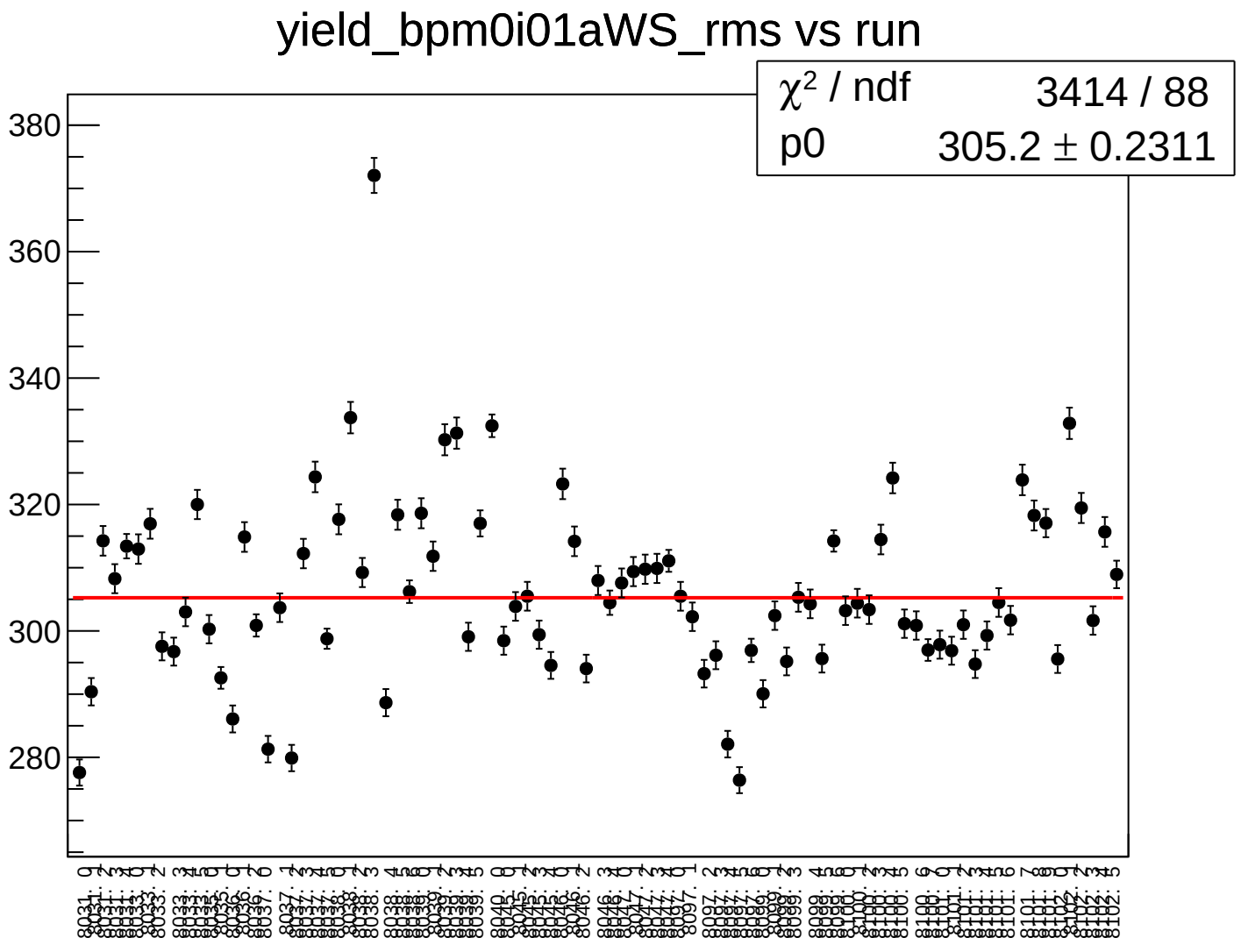

yield_bpm0i01WS_mean vs run
×10^3
χ² / ndf 9.955e+04 / 88
p0 1.607e+05 ± 0.3574
161
160.9
160.8
160.7
160.6
pull
Entries 89
Mean 1147
Std Dev 0
80
60
40
20
0
−20
−40

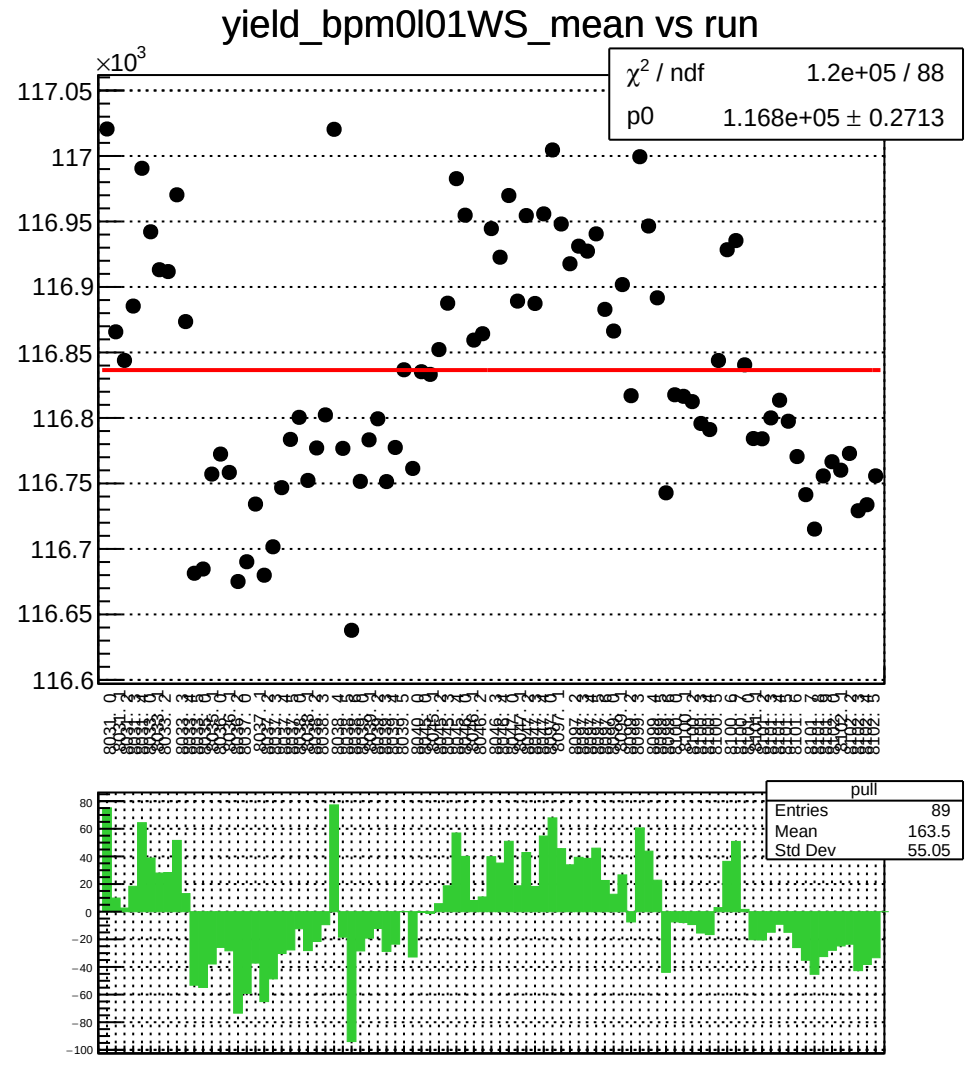

pull1D
Entries 89
Mean −0.6579
Std Dev 4.201
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

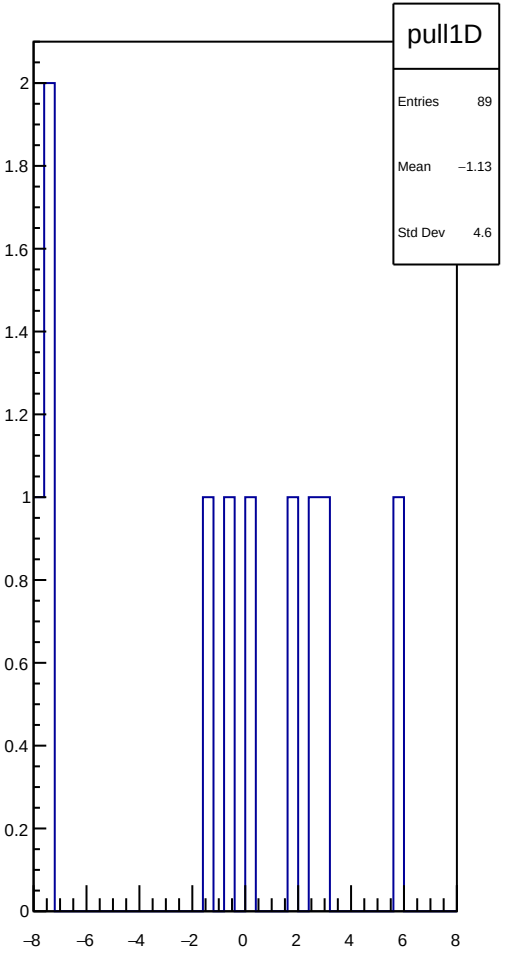

yield_bpm0i01WS_rms vs run
χ² / ndf 3730 / 88
p0 333.7 ± 0.2527
400
380
360
340
320
300

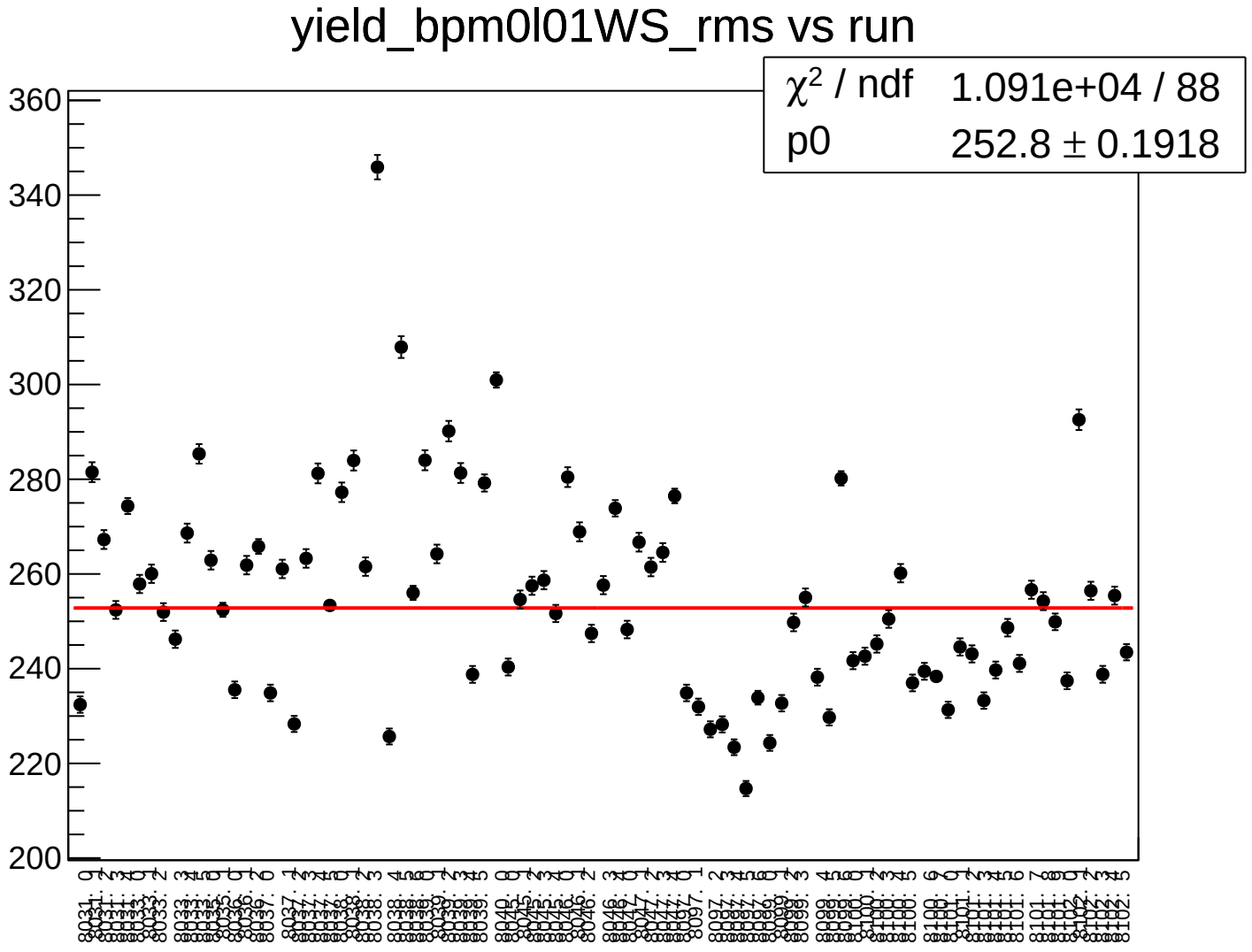

yield_bpm0i01aWS_mean vs run
×10^3
χ^2 / ndf 2.339e+04 / 88
p0 1.536e+05 ± 0.3269
153.7
153.65
153.6
153.55
153.5
pull
Entries 89
Mean 2230
Std Dev 0
30
20
10
0
−10
−20
−30

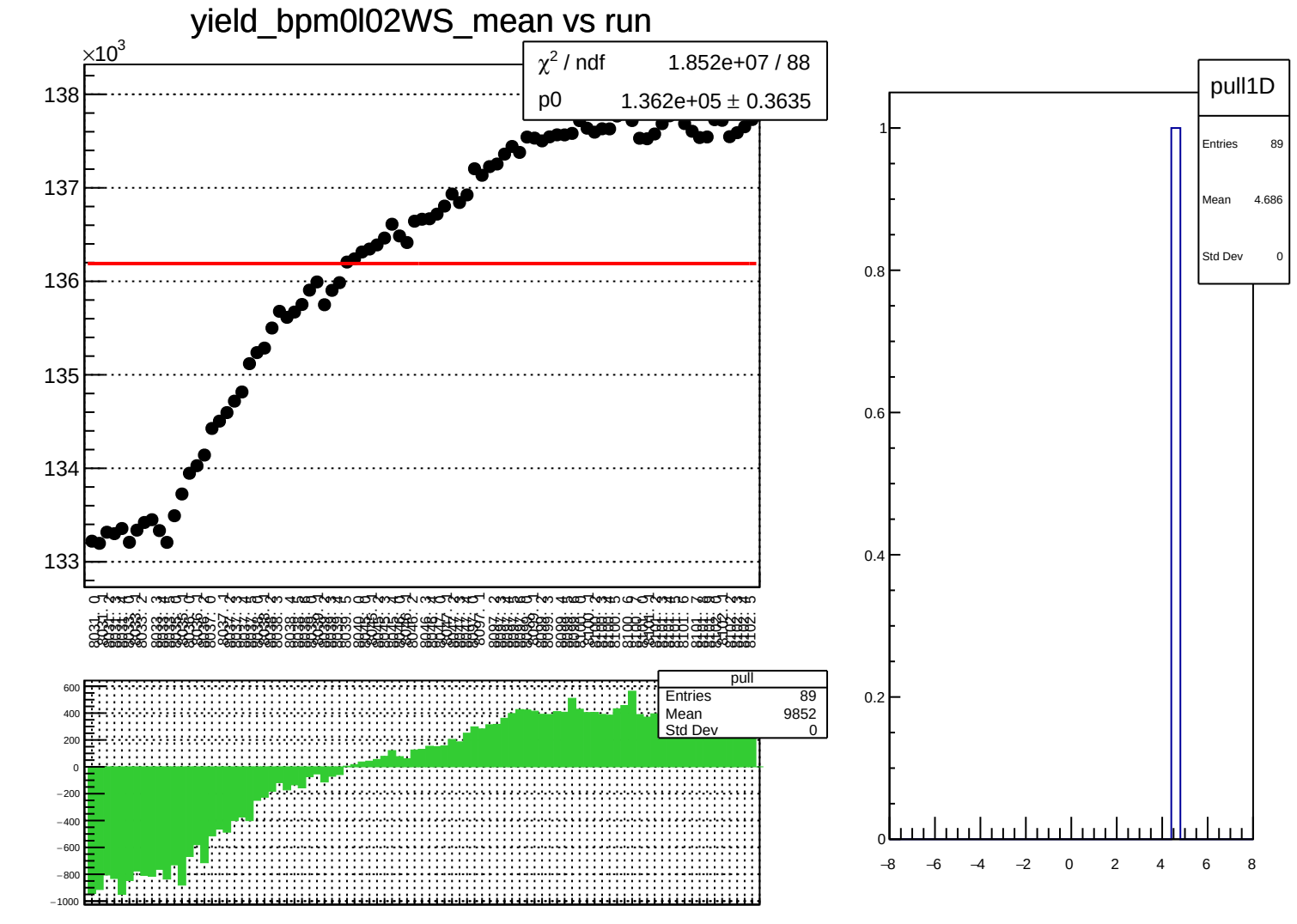

pull1D
Entries 89
Mean −0.1526
Std Dev 4.977
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

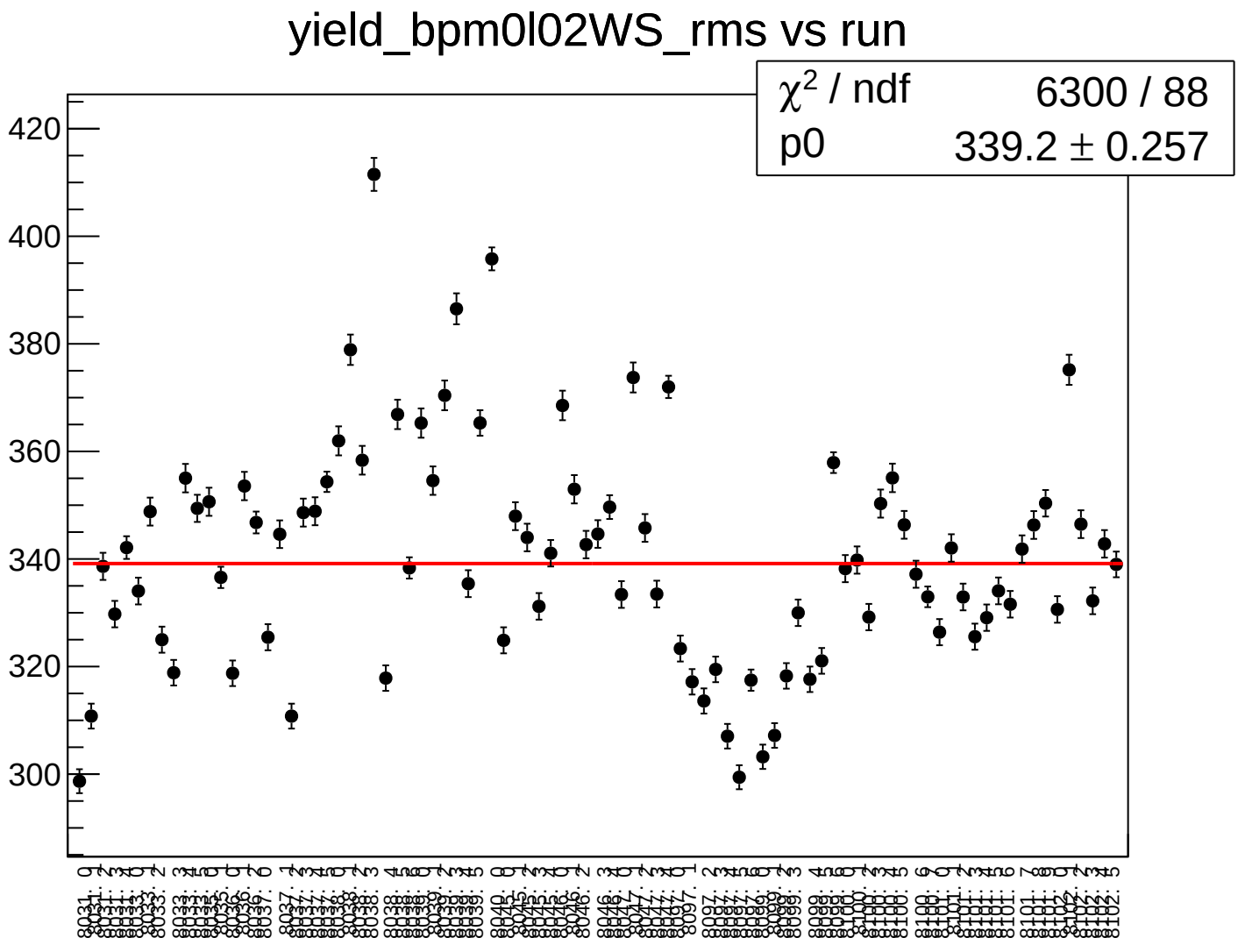

yield_bpm0i01aWS_rms vs run
χ² / ndf 3414 / 88
p0 305.2 ± 0.2311
380
360
340
320
300
280

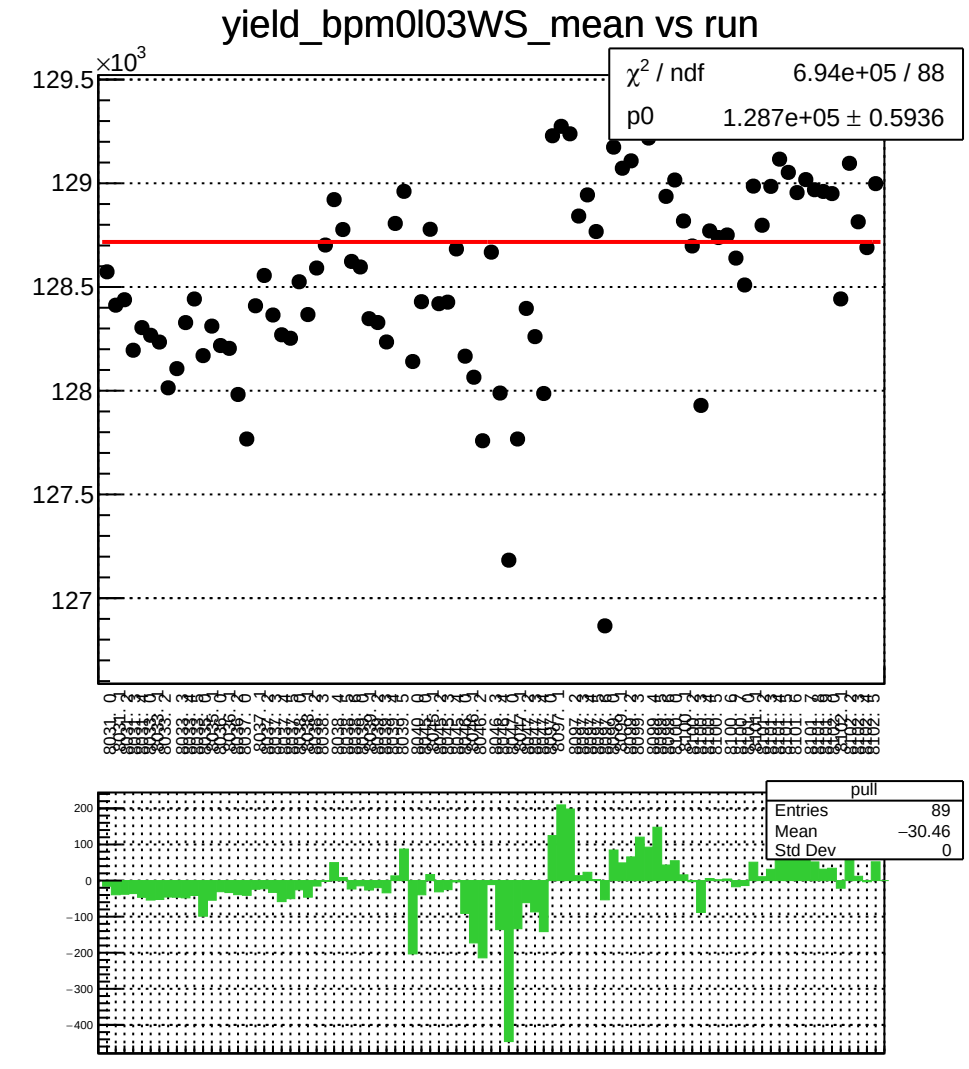

yield_bpm0l01WS_mean vs run
×10^3
117.05
117
116.95
116.9
116.85
116.8
116.75
116.7
116.65
116.6
χ² / ndf 1.2e+05 / 88
p0 1.168e+05 ± 0.2713
pull
Entries 89
Mean 163.5
Std Dev 55.05
80
60
40
20
0
−20
−40
−60
−80
−100

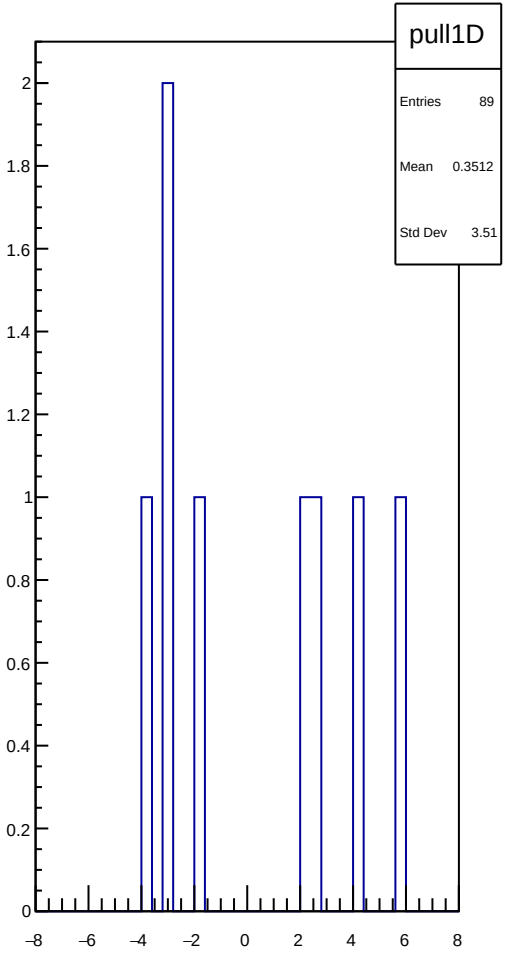

pull1D
Entries 89
Mean −1.13
Std Dev 4.6
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

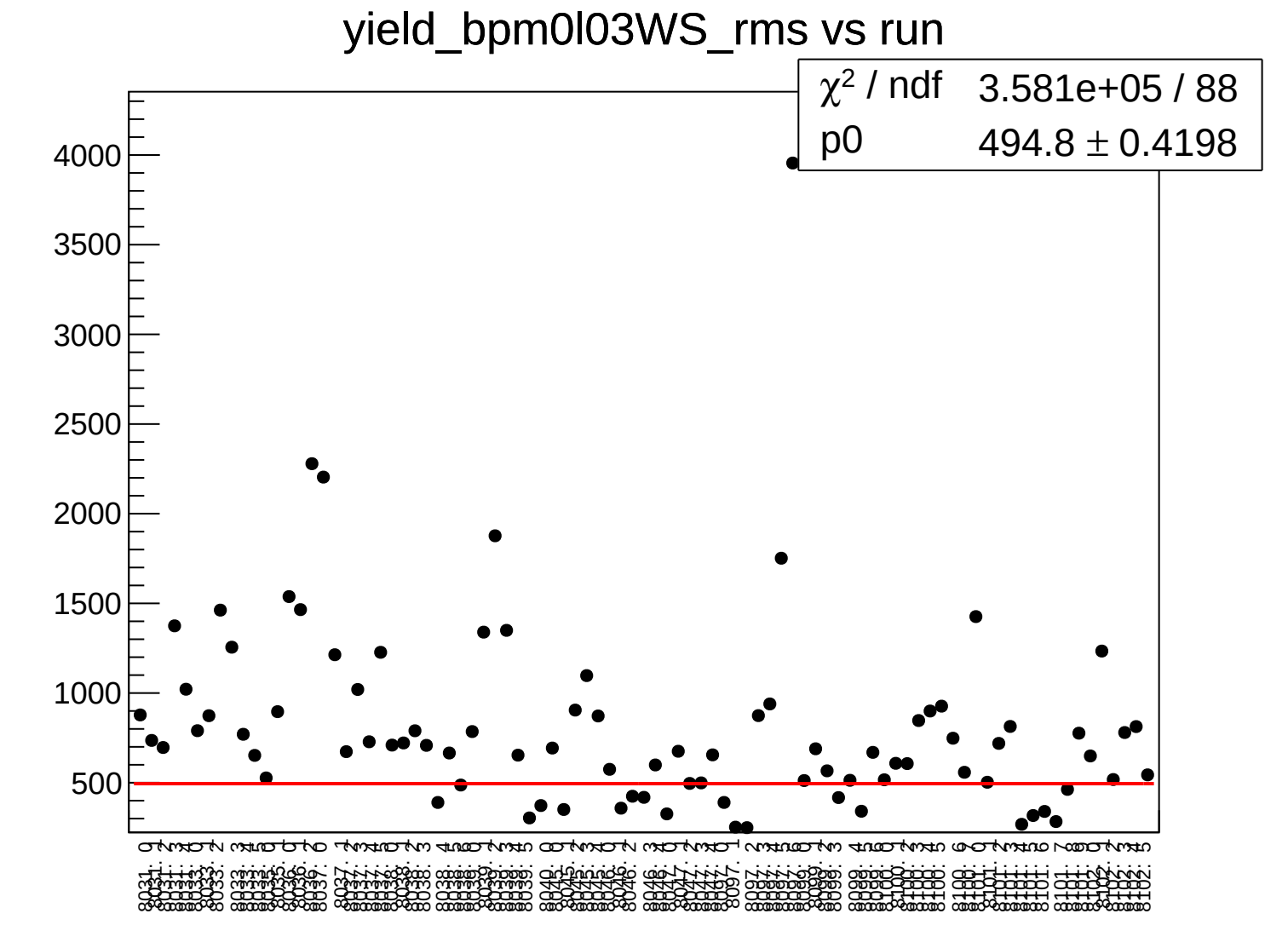

yield_bpm0l01WS_rms vs run
χ² / ndf 1.091e+04 / 88
p0 252.8 ± 0.1918
360
340
320
300
280
260
240
220
200

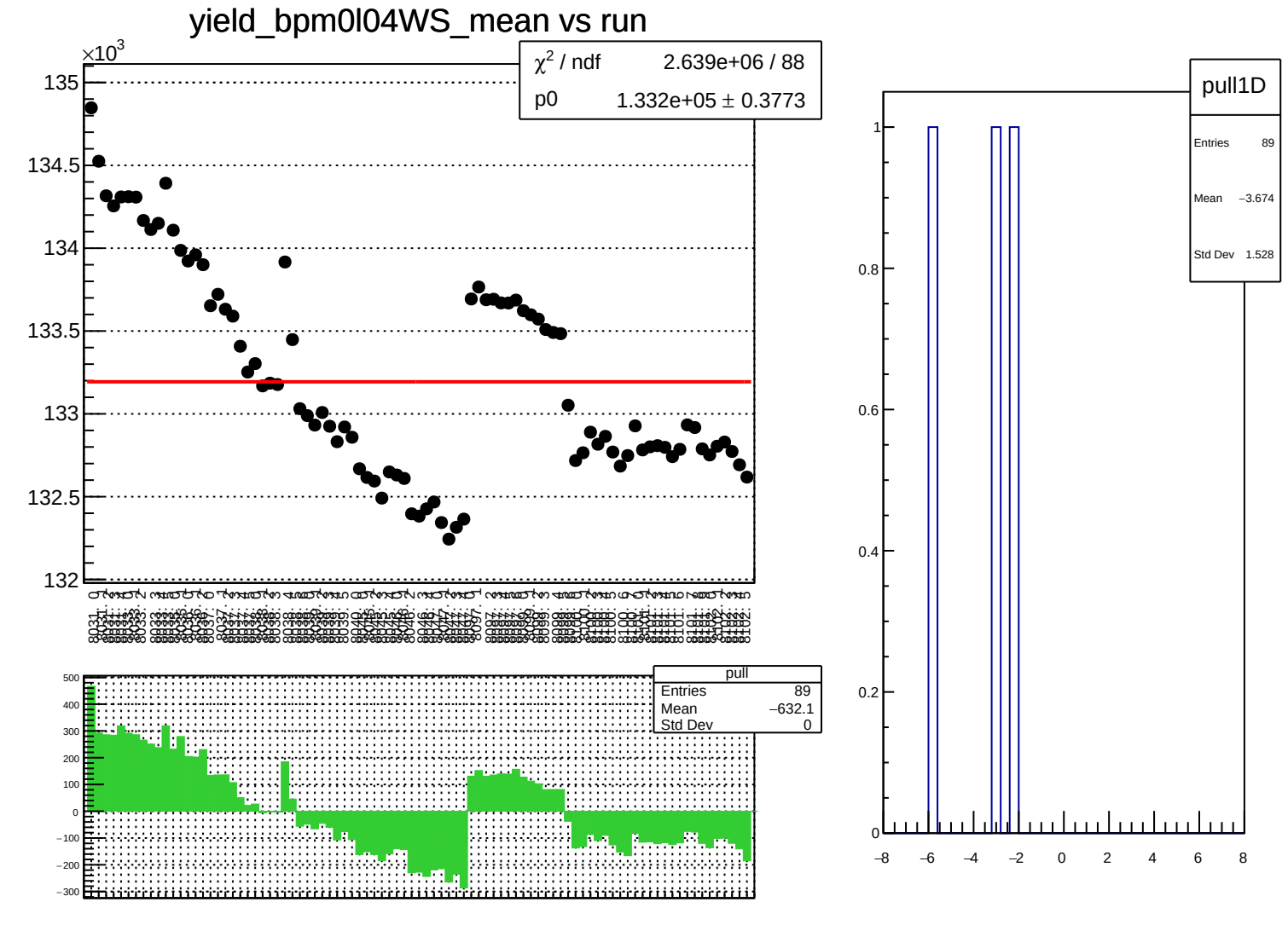

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 1.852e+07 / 88
p0 1.362e+05 ± 0.3635
138
137
136
135
134
133
pull
Entries 89
Mean 9852
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000
pull1D
Entries 89
Mean 4.686
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

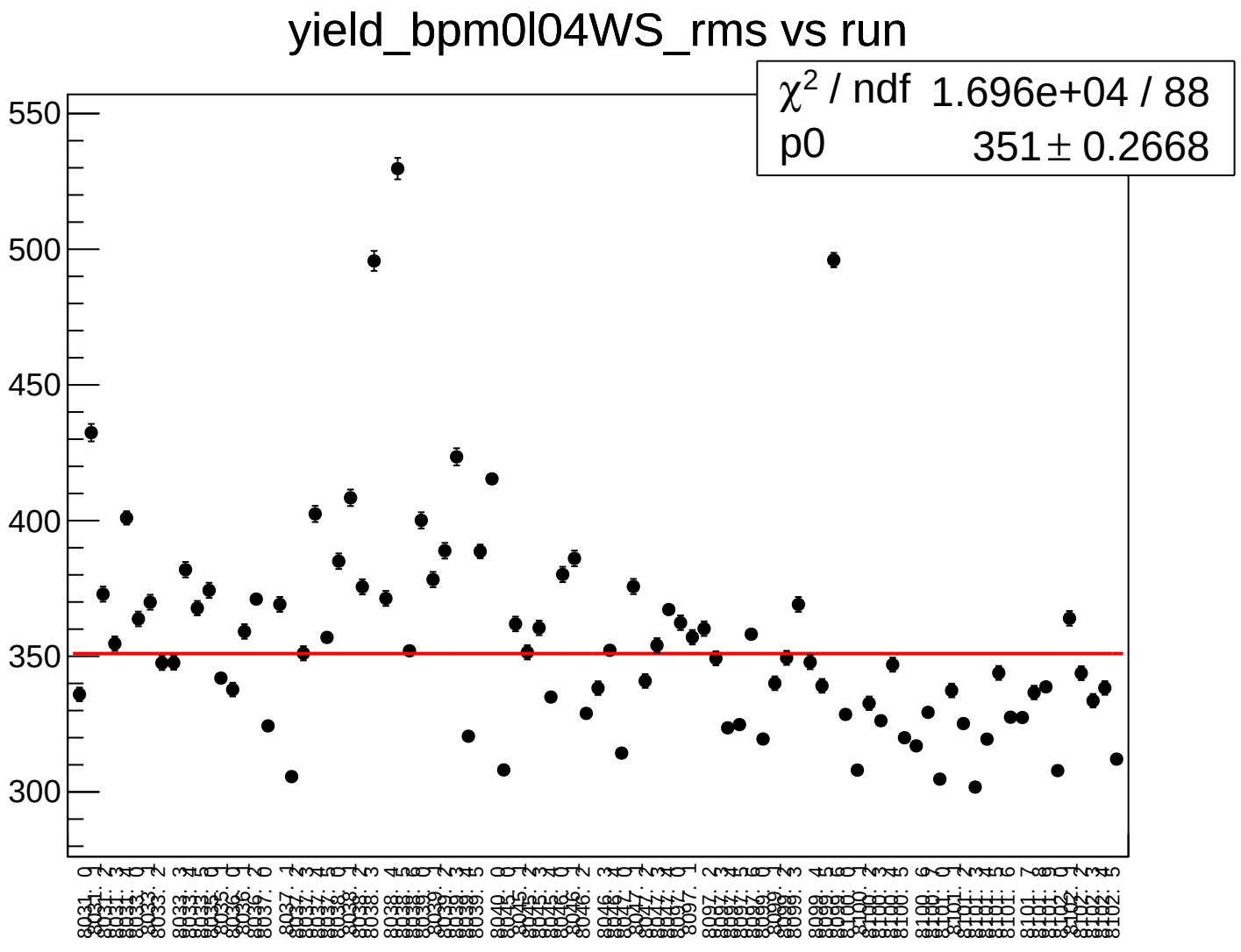

yield_bpm0l02WS_rms vs run
χ² / ndf 6300 / 88
p0 339.2 ± 0.257
420
400
380
360
340
320
300

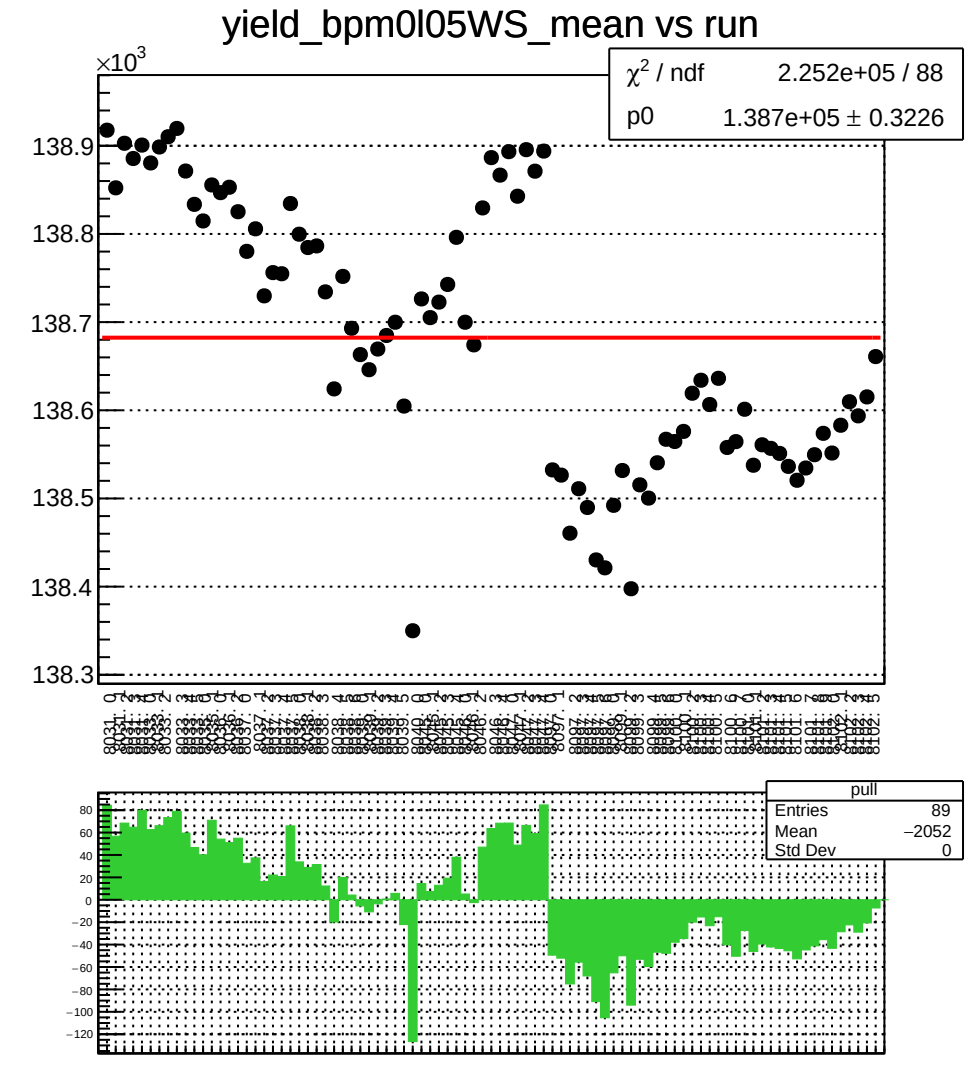

yield_bpm0l03WS_mean vs run
×10^3
129.5
129
128.5
128
127.5
127
χ² / ndf 6.94e+05 / 88
p0 1.287e+05 ± 0.5936
pull
Entries 89
Mean −30.46
Std Dev 0
200
100
0
−100
−200
−300
−400

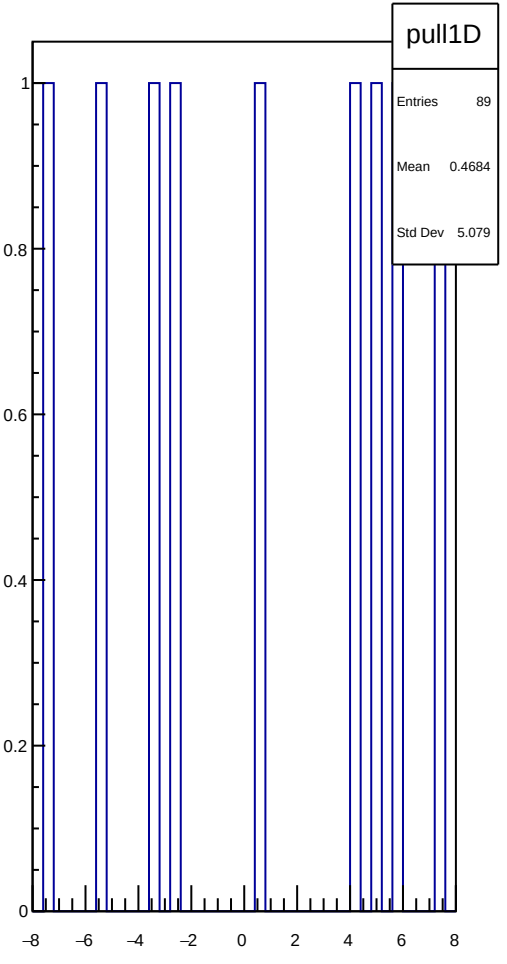

pull1D
Entries 89
Mean 0.3512
Std Dev 3.51
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

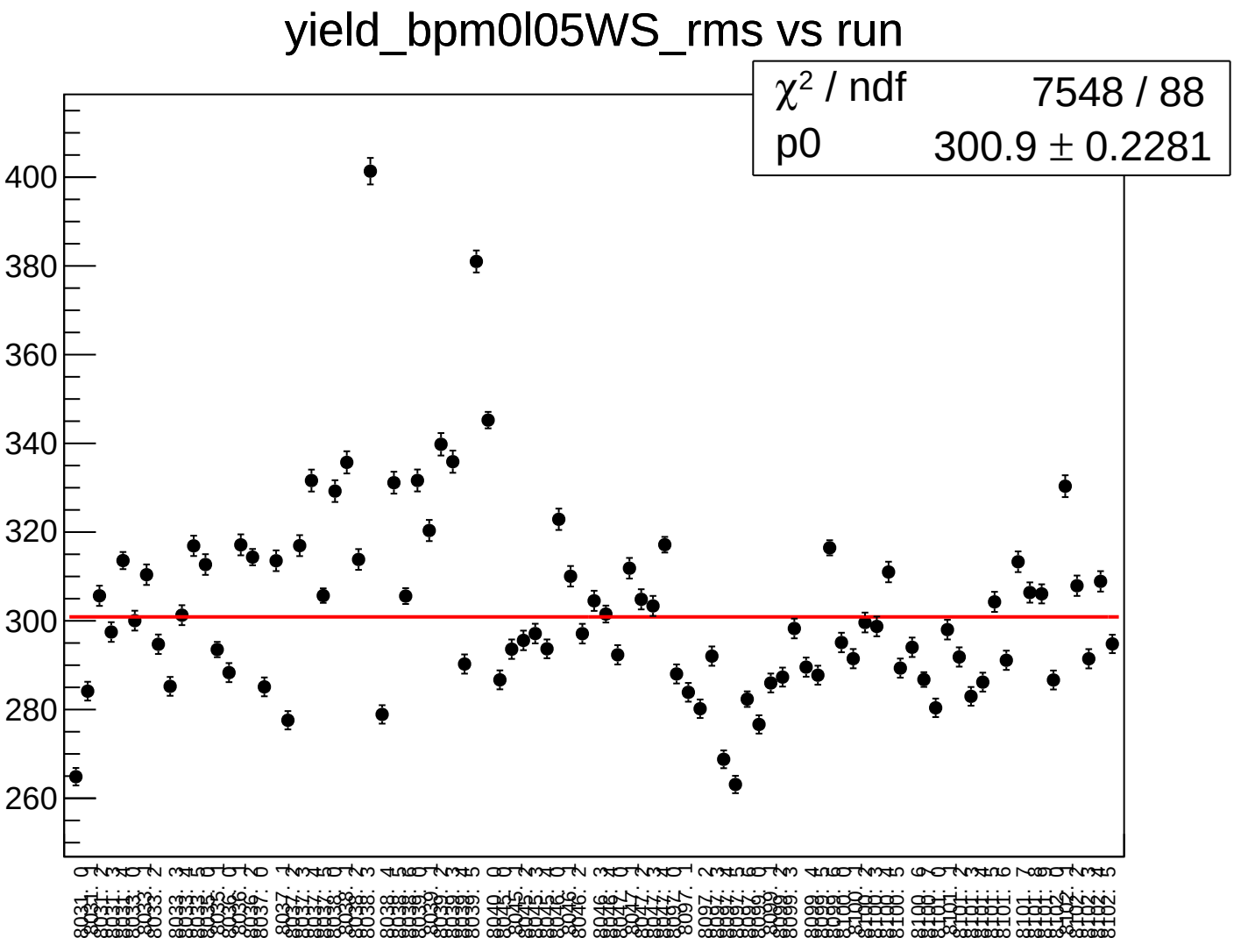

yield_bpm0l03WS_rms vs run
χ² / ndf 3.581e+05 / 88
p0 494.8 ± 0.4198
4000
3500
3000
2500
2000
1500
1000
500

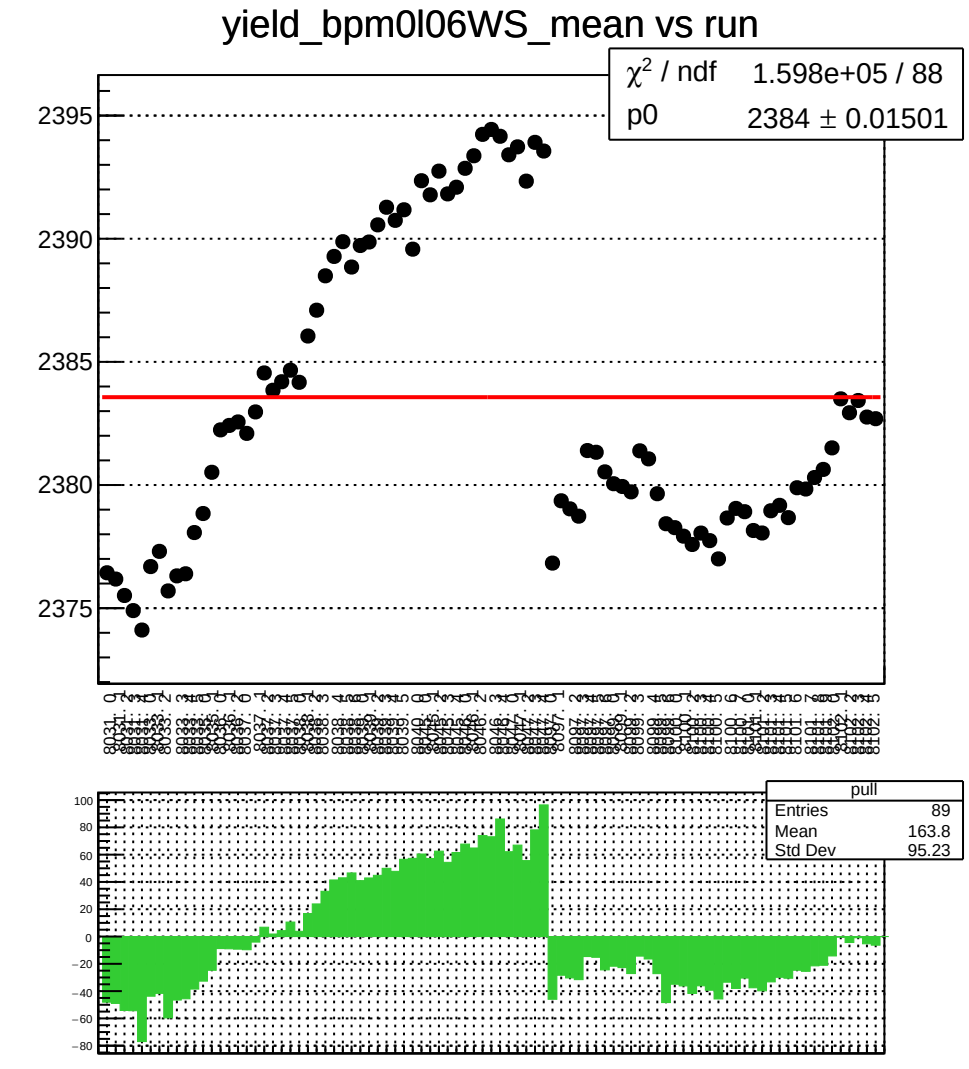

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 2.639e+06 / 88
p0 1.332e+05 ± 0.3773
135
134.5
134
133.5
133
132.5
132
pull
Entries 89
Mean −632.1
Std Dev 0
500
400
300
200
100
0
−100
−200
−300
pull1D
Entries 89
Mean −3.674
Std Dev 1.528
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

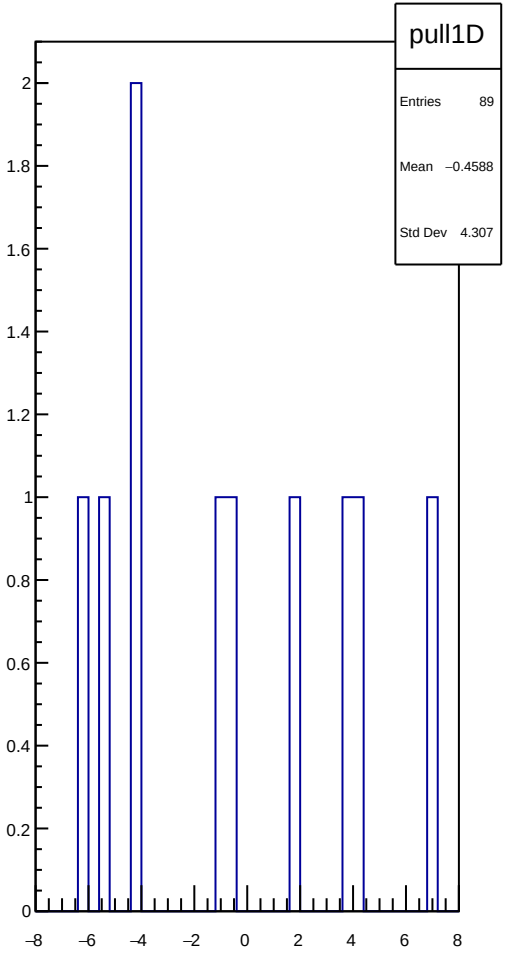

yield_bpm0l04WS_rms vs run
$\chi^2$ / ndf 1.696e+04 / 88
p0 351 ± 0.2668
550
500
450
400
350
300

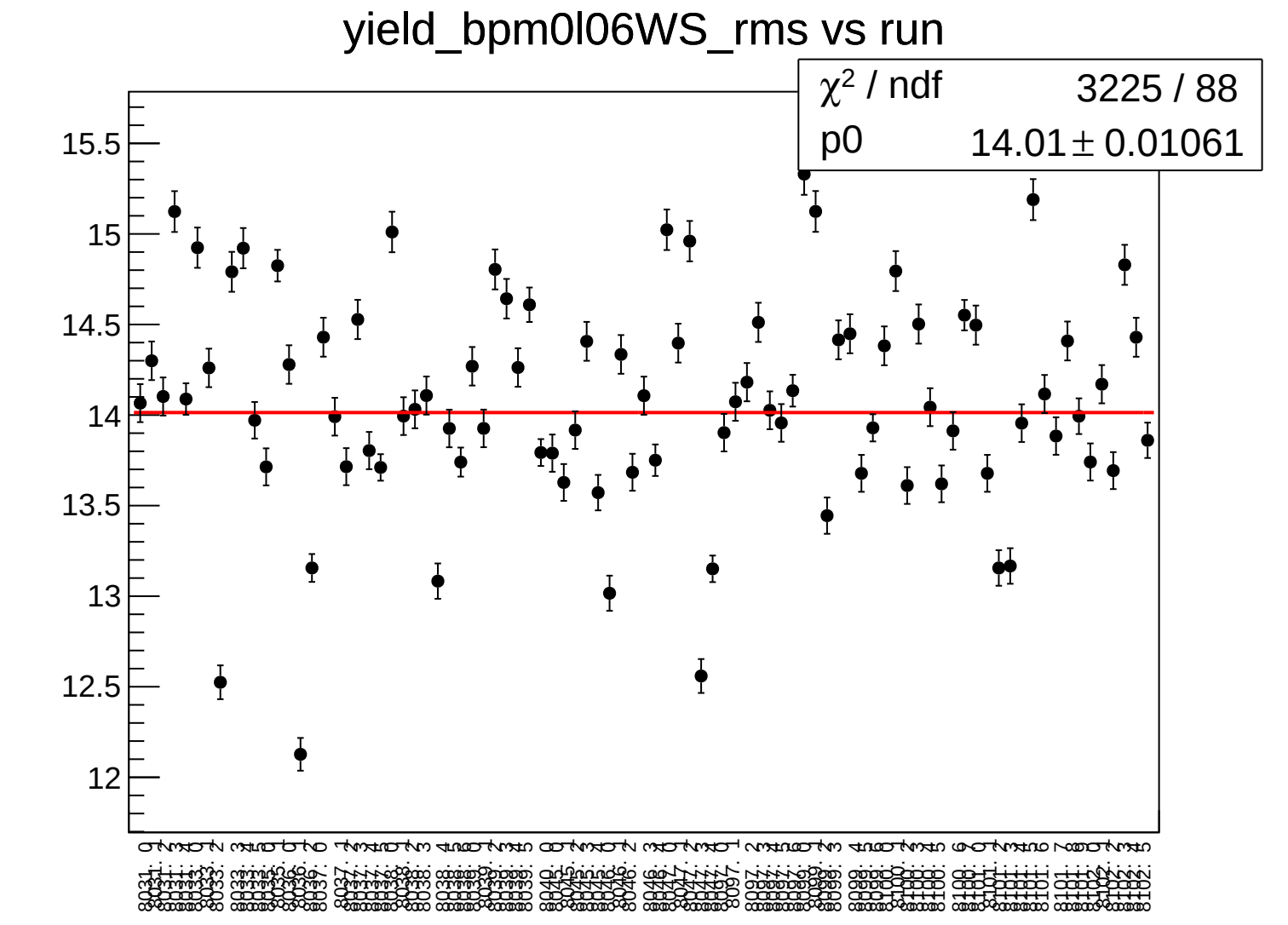

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 2.252e+05 / 88
p0 1.387e+05 ± 0.3226
138.9
138.8
138.7
138.6
138.5
138.4
138.3
pull
Entries 89
Mean −2052
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100
−120

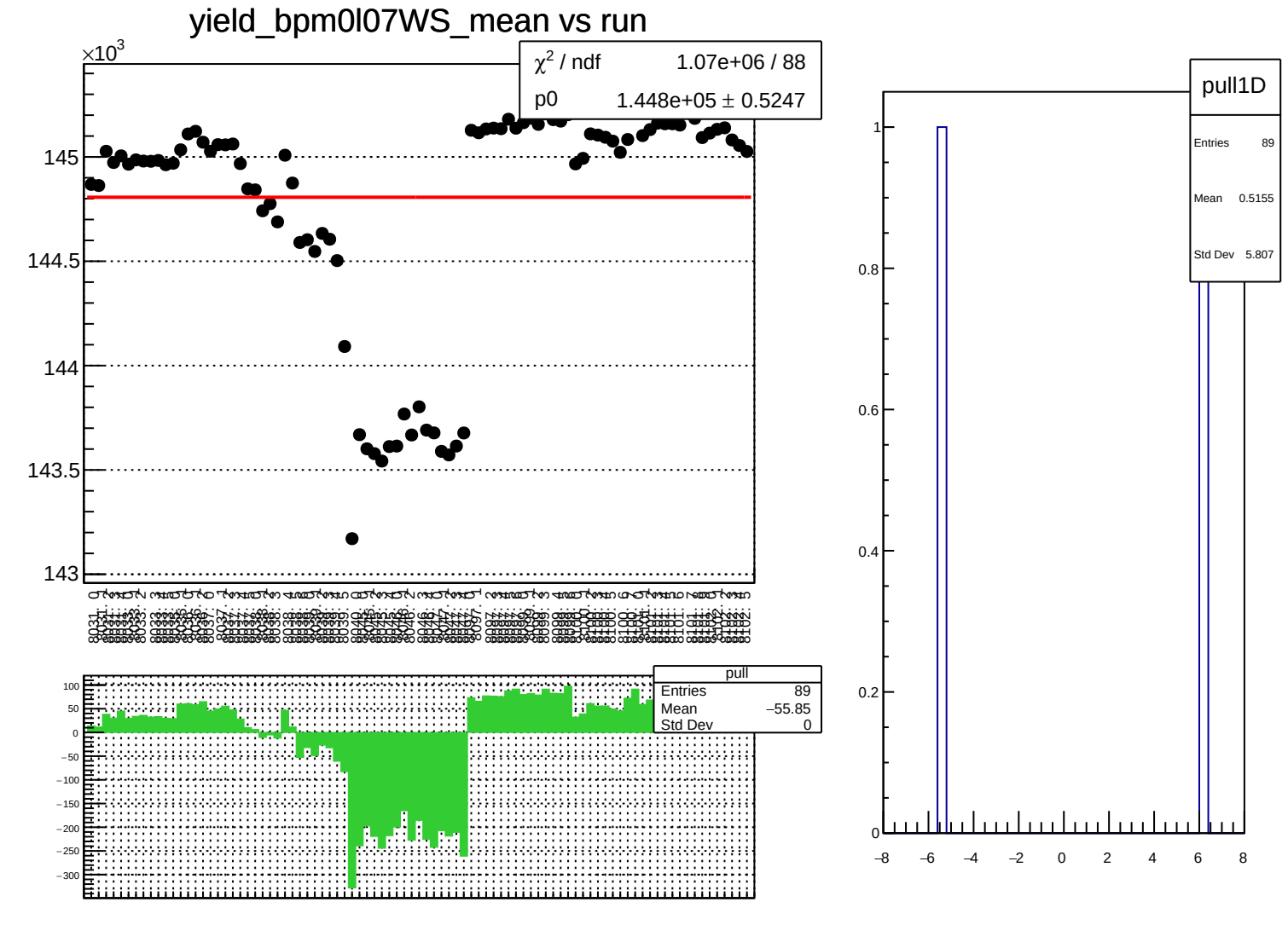

pull1D
Entries 89
Mean 0.4684
Std Dev 5.079
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

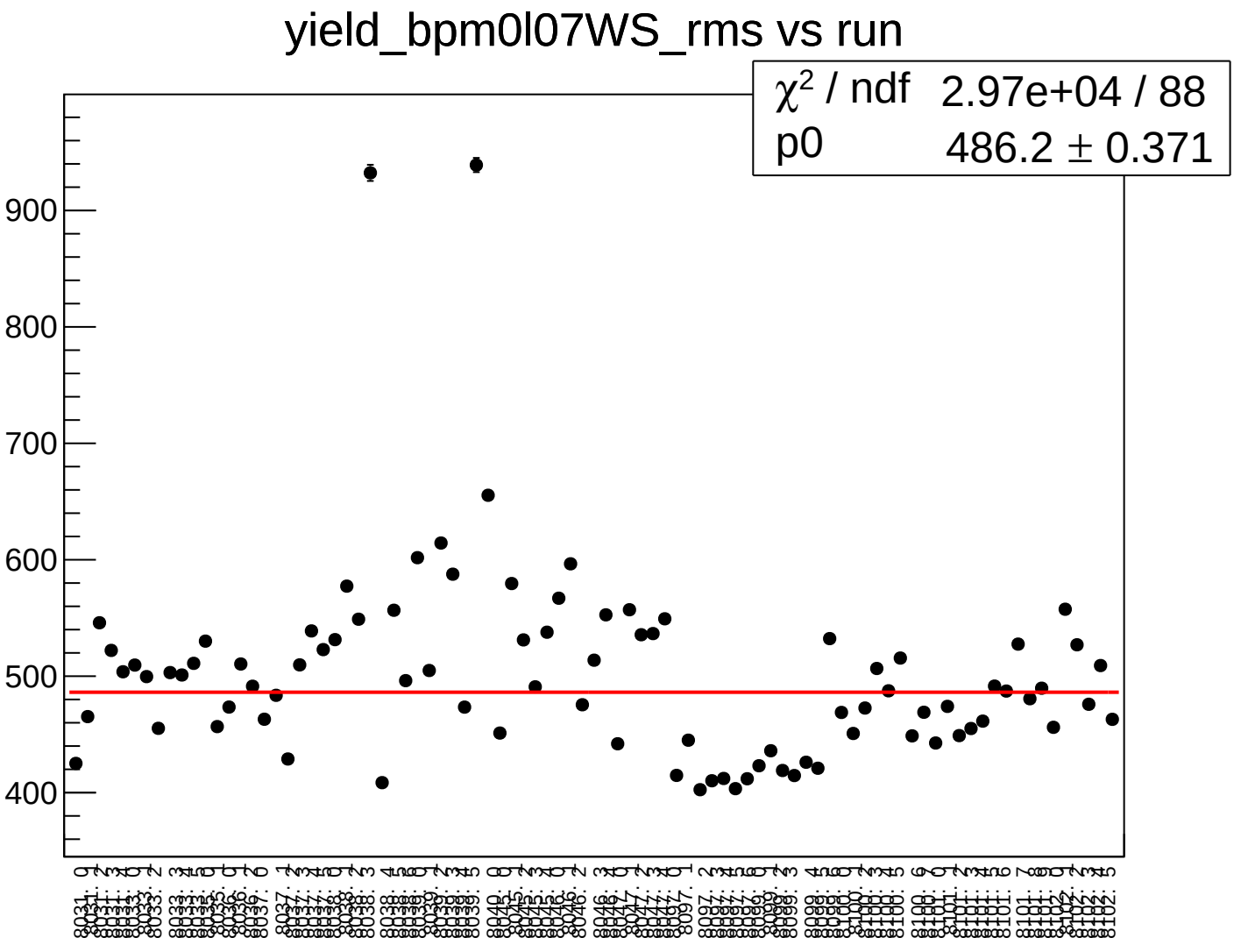

yield_bpm0l05WS_rms vs run
χ² / ndf 7548 / 88
p0 300.9 ± 0.2281
400
380
360
340
320
300
280
260

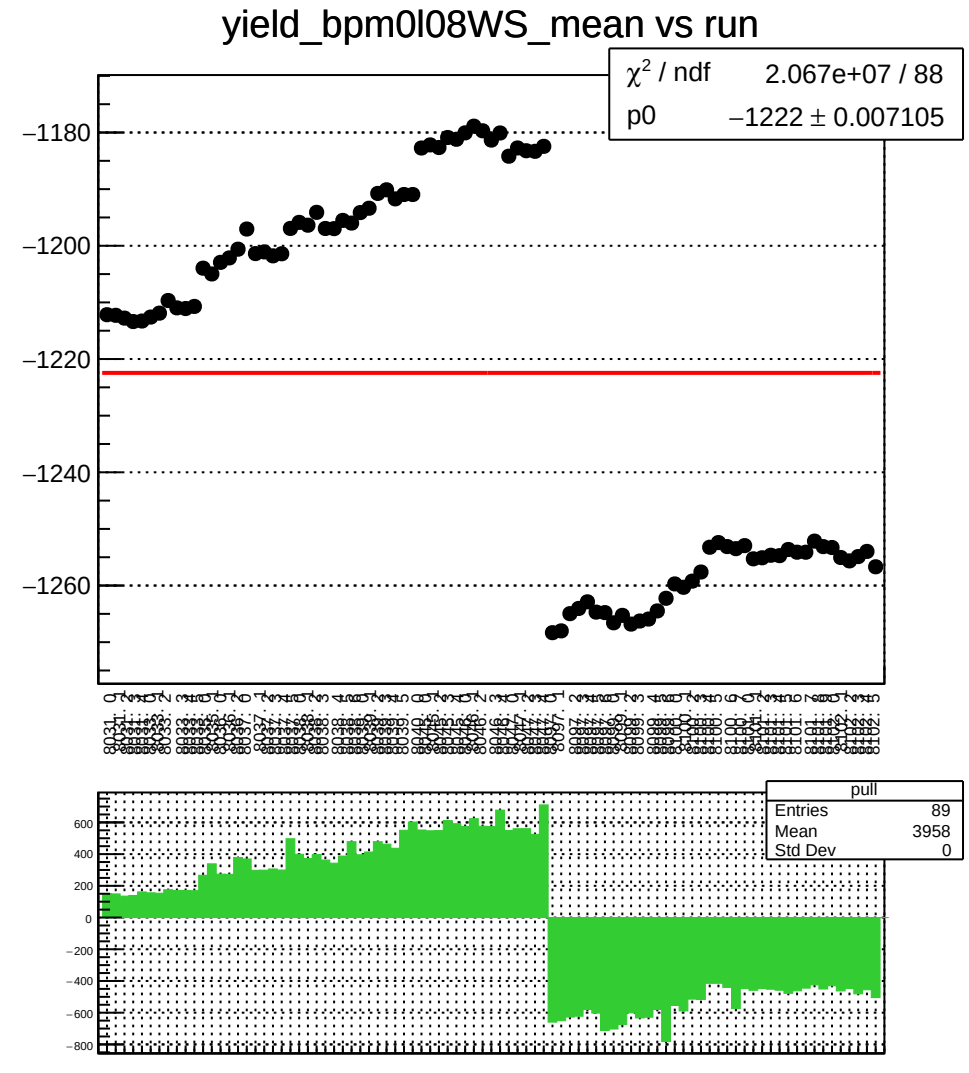

yield_bpm0l06WS_mean vs run
χ² / ndf 1.598e+05 / 88
p0 2384 ± 0.01501
2395
2390
2385
2380
2375
pull
Entries 89
Mean 163.8
Std Dev 95.23
100
80
60
40
20
0
−20
−40
−60
−80

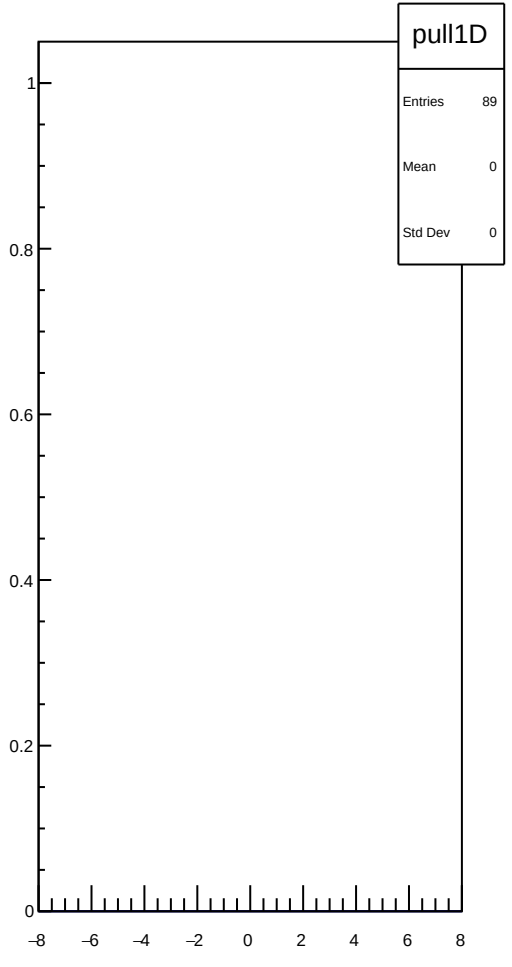

pull1D
Entries 89
Mean −0.4588
Std Dev 4.307
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

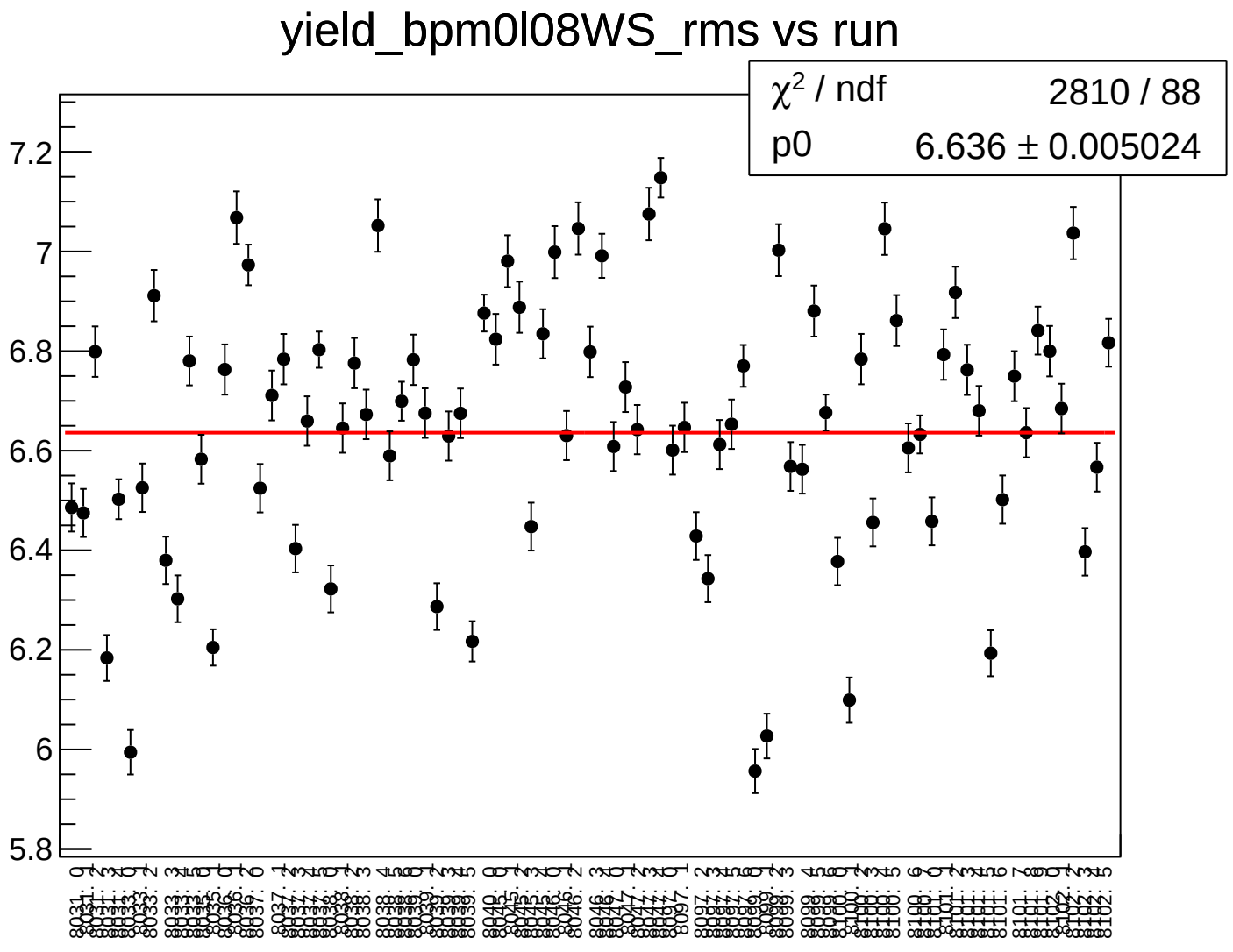

yield_bpm0l06WS_rms vs run
χ² / ndf 3225 / 88
p0 14.01 ± 0.01061
15.5
15
14.5
14
13.5
13
12.5
12

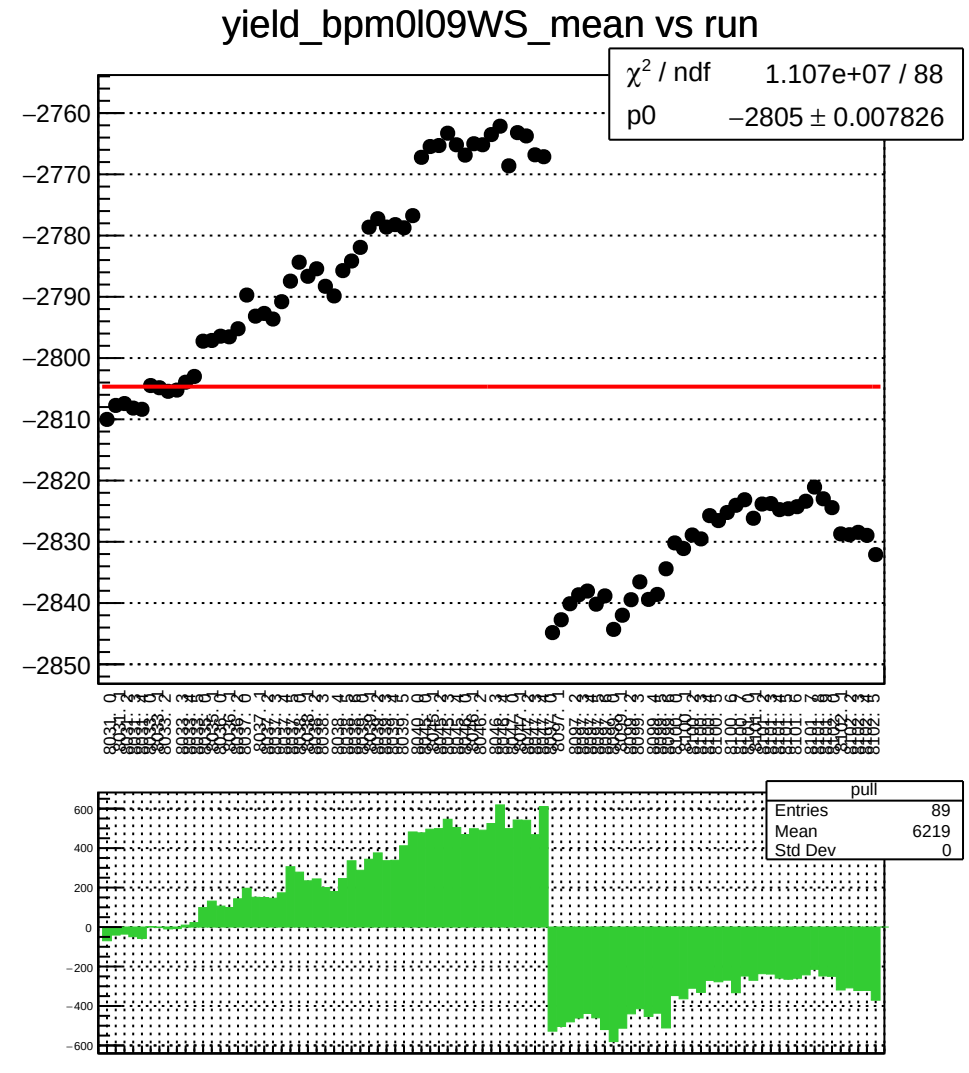

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 1.07e+06 / 88
p0 1.448e+05 ± 0.5247
145
144.5
144
143.5
143
pull
Entries 89
Mean −55.85
Std Dev 0
100
50
0
−50
−100
−150
−200
−250
−300
pull1D
Entries 89
Mean 0.5155
Std Dev 5.807
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

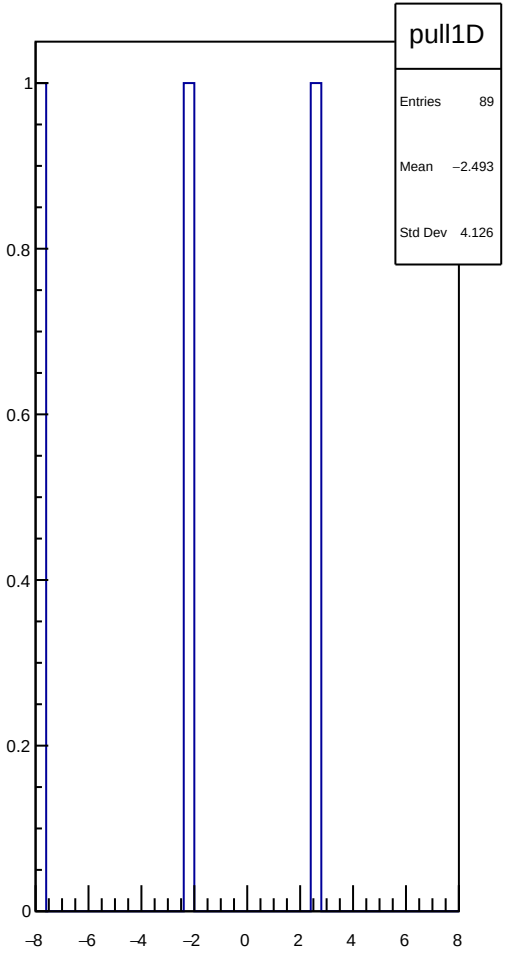

yield_bpm0l07WS_rms vs run
χ² / ndf 2.97e+04 / 88
p0 486.2 ± 0.371
900
800
700
600
500
400

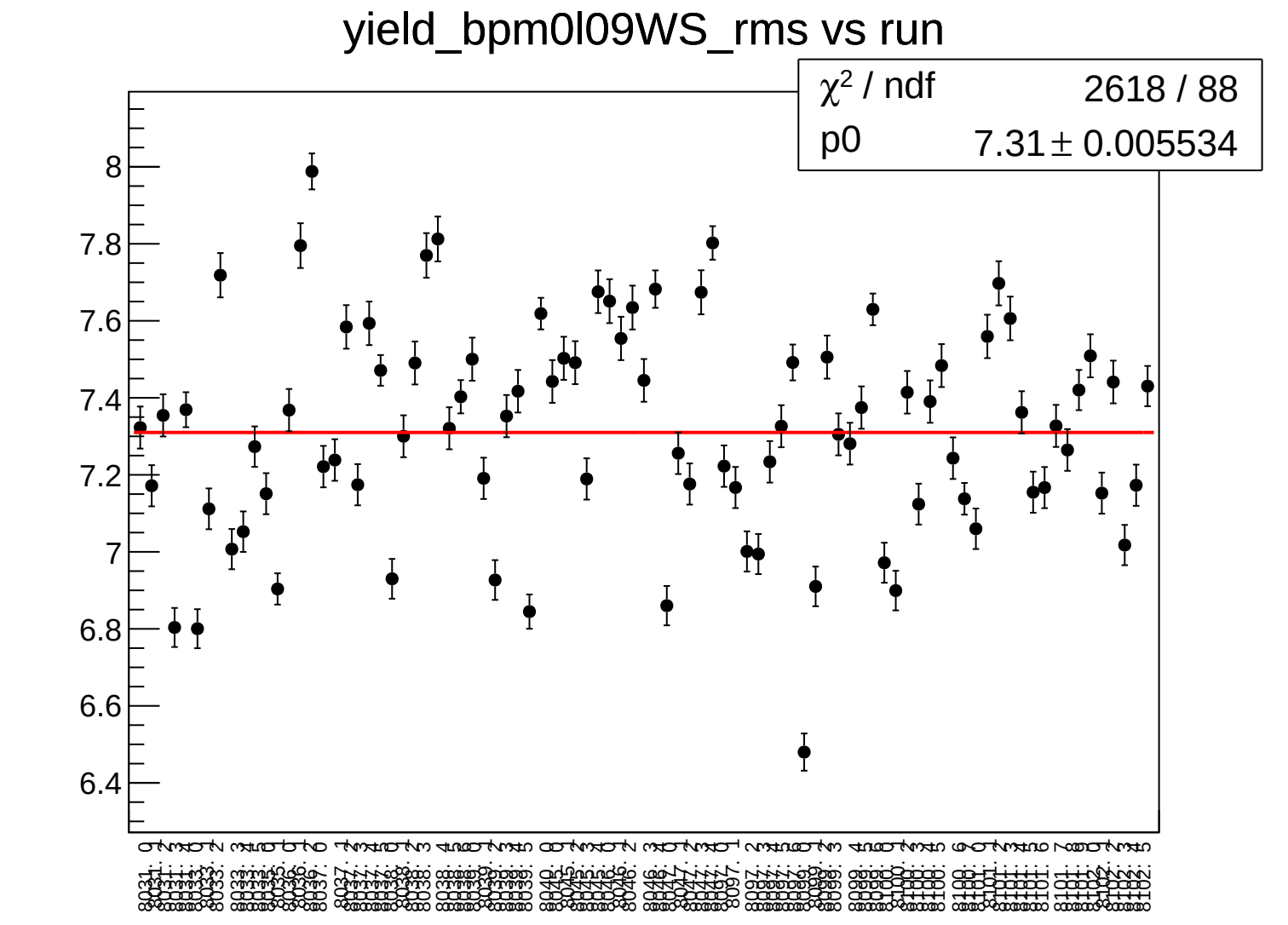

yield_bpm0l08WS_mean vs run
χ² / ndf 2.067e+07 / 88
p0 −1222 ± 0.007105
−1180
−1200
−1220
−1240
−1260
pull
Entries 89
Mean 3958
Std Dev 0
600
400
200
0
−200
−400
−600
−800

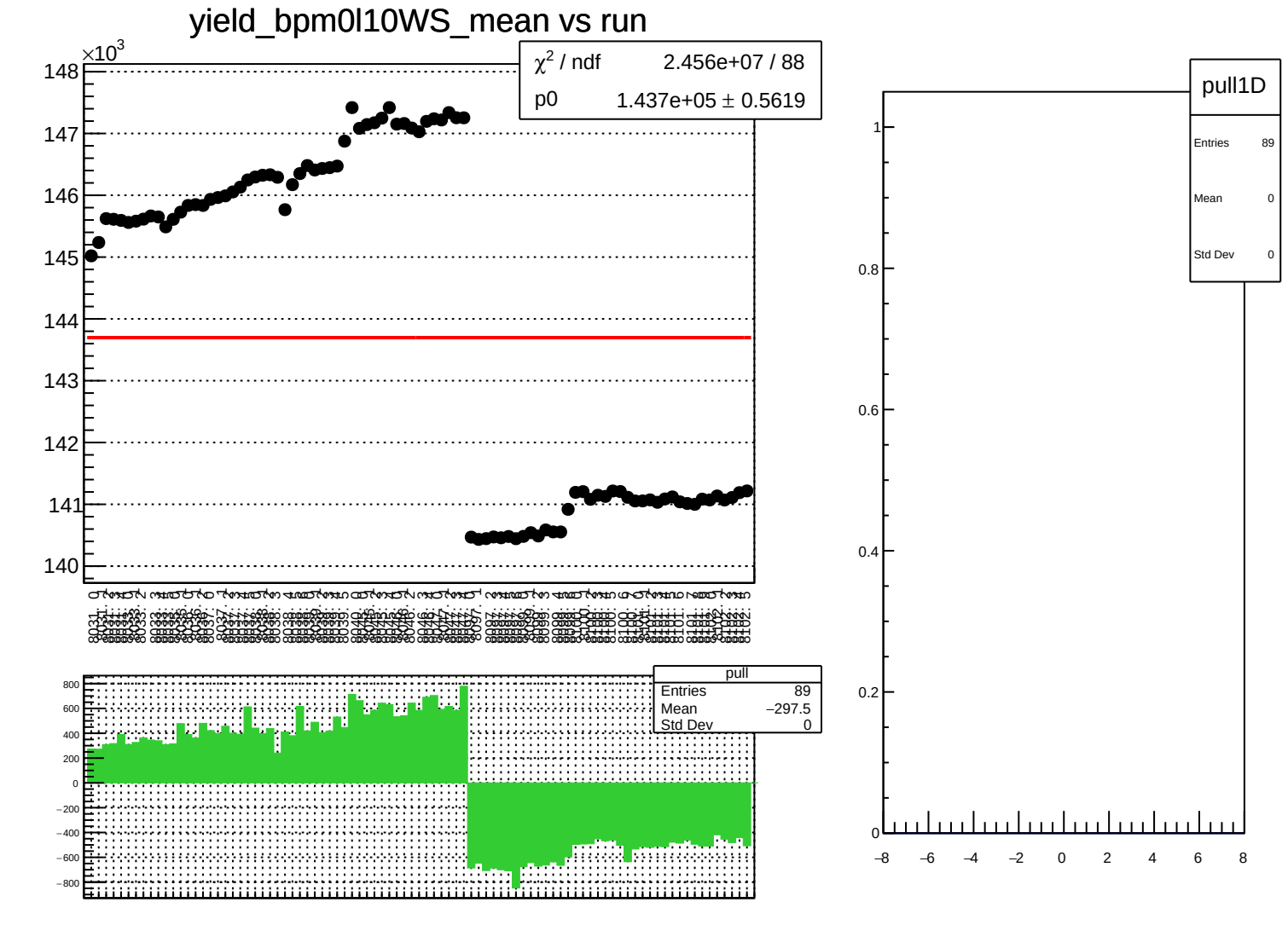

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

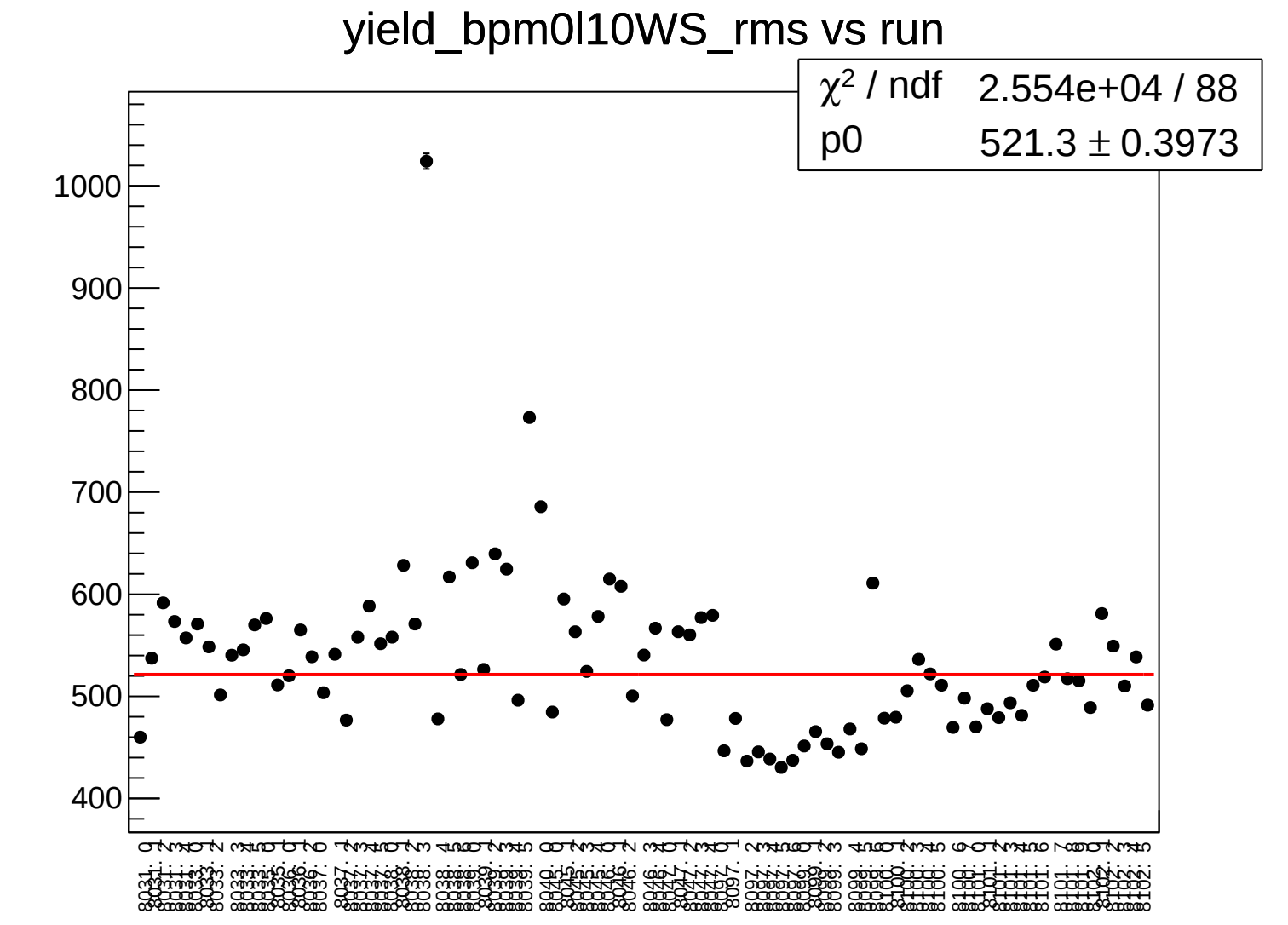

yield_bpm0l08WS_rms vs run
χ² / ndf 2810 / 88
p0 6.636 ± 0.005024
7.2
7
6.8
6.6
6.4
6.2
6
5.8

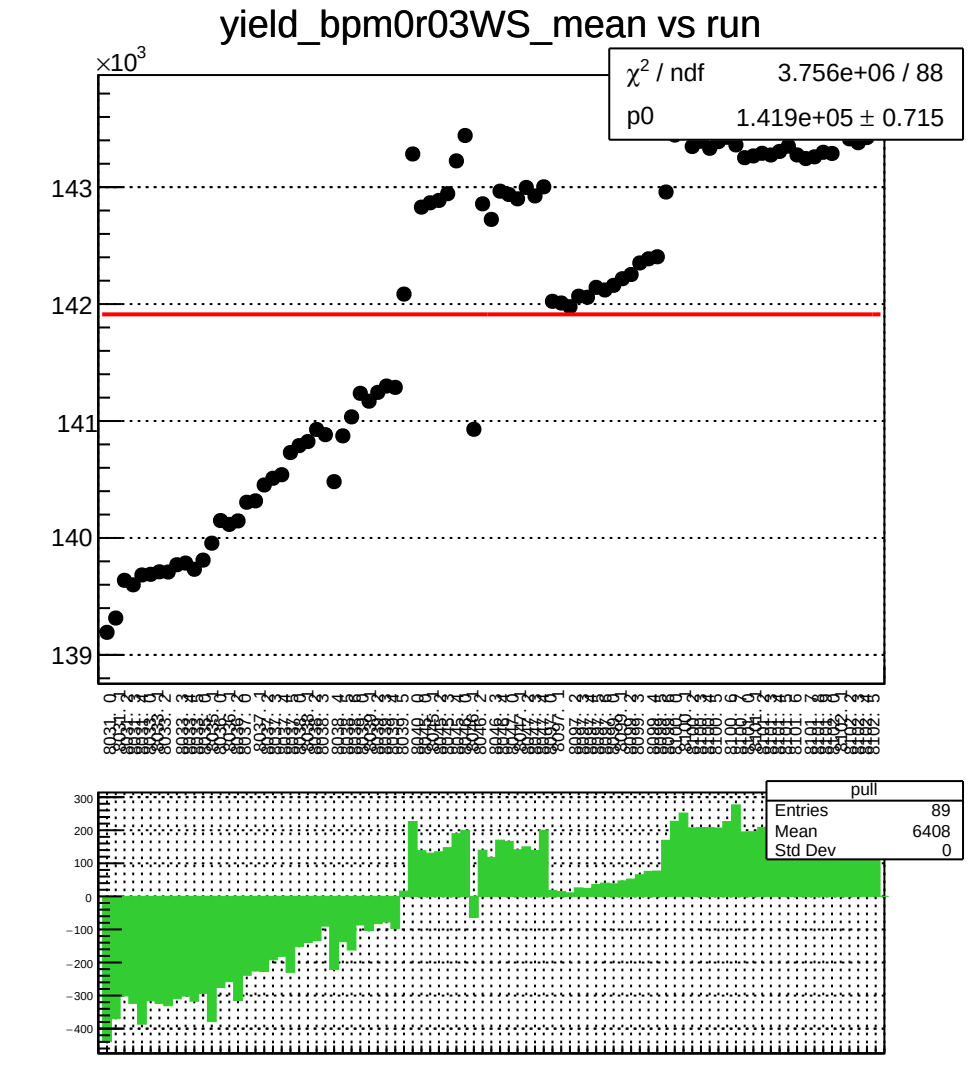

yield_bpm0l09WS_mean vs run
χ² / ndf 1.107e+07 / 88
p0 −2805 ± 0.007826
−2760
−2770
−2780
−2790
−2800
−2810
−2820
−2830
−2840
−2850
pull
Entries 89
Mean 6219
Std Dev 0
600
400
200
0
−200
−400
−600

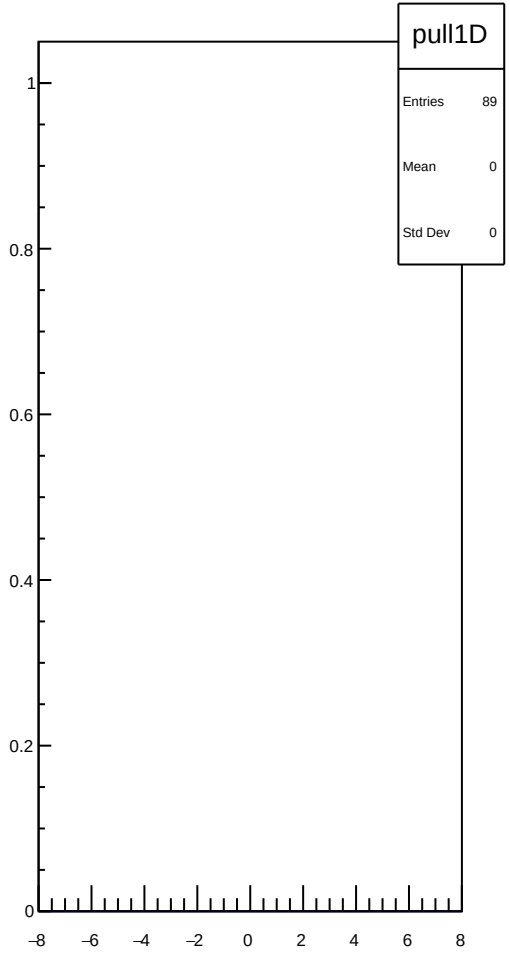

pull1D
Entries 89
Mean −2.493
Std Dev 4.126
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

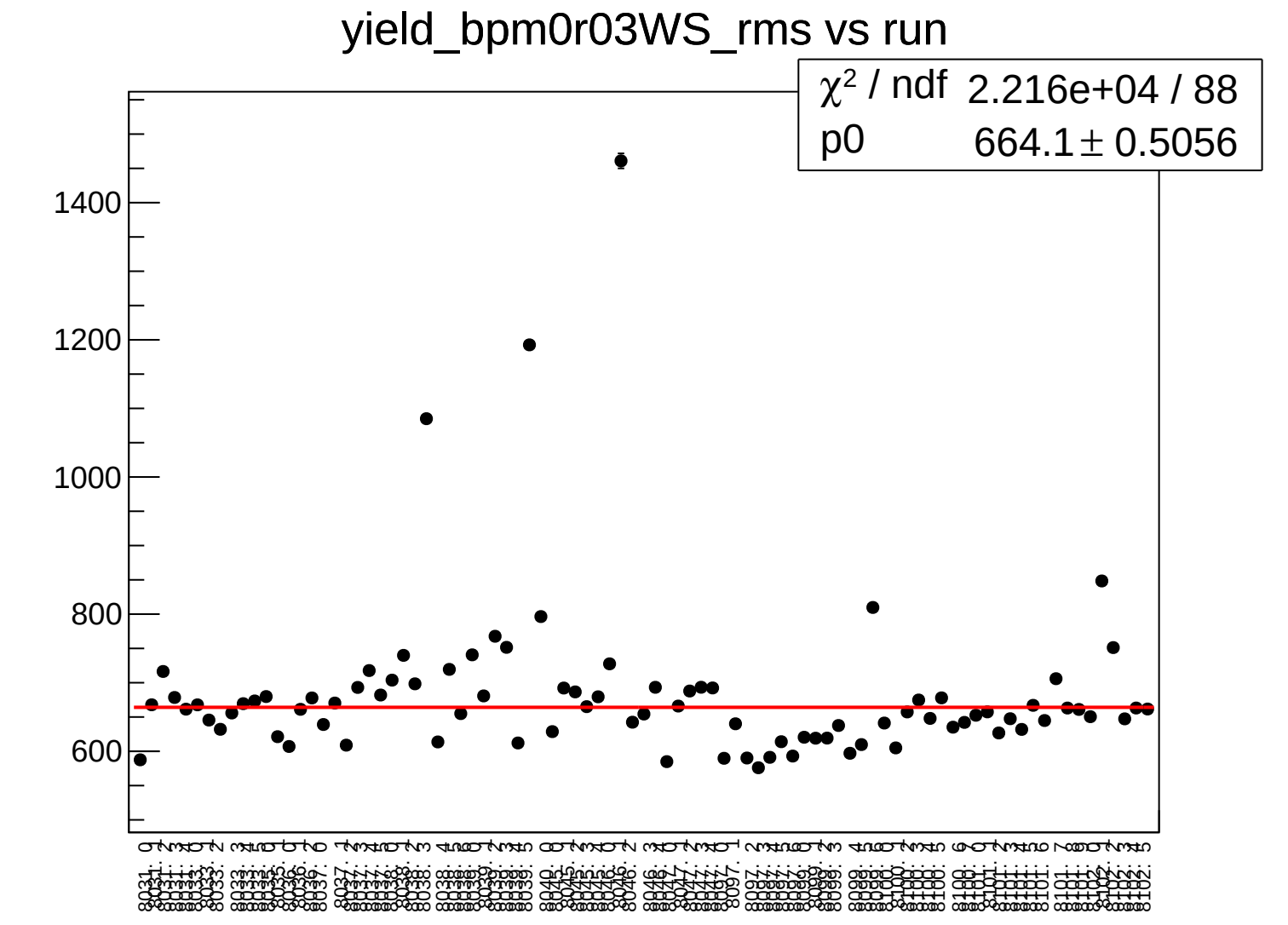

yield_bpm0l09WS_rms vs run
χ² / ndf 2618 / 88
p0 7.31 ± 0.005534
8
7.8
7.6
7.4
7.2
7
6.8
6.6
6.4

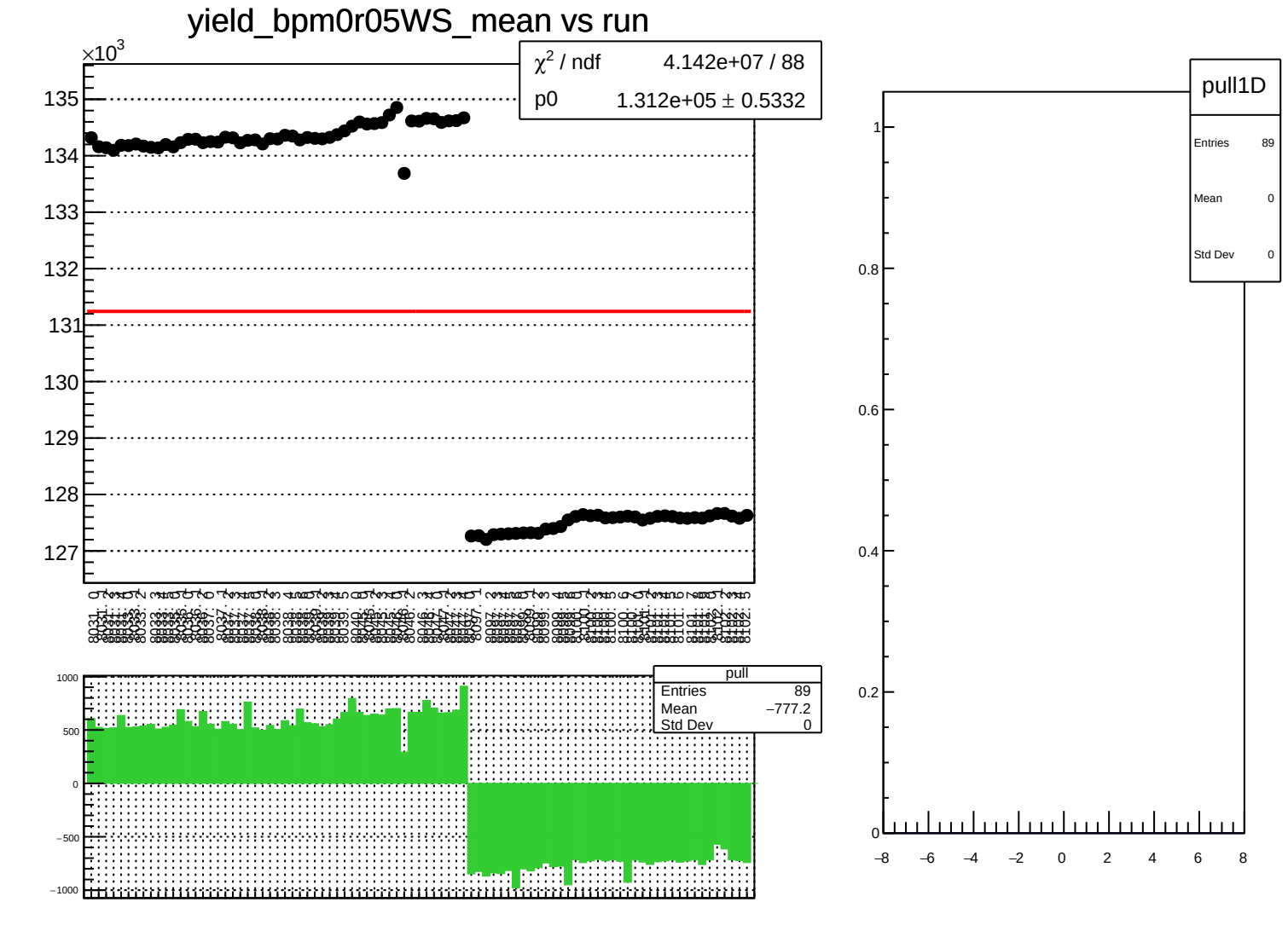

yield_bpm0l10WS_mean vs run
×10^3
148
147
146
145
144
143
142
141
140
χ² / ndf 2.456e+07 / 88
p0 1.437e+05 ± 0.5619
pull
Entries 89
Mean −297.5
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

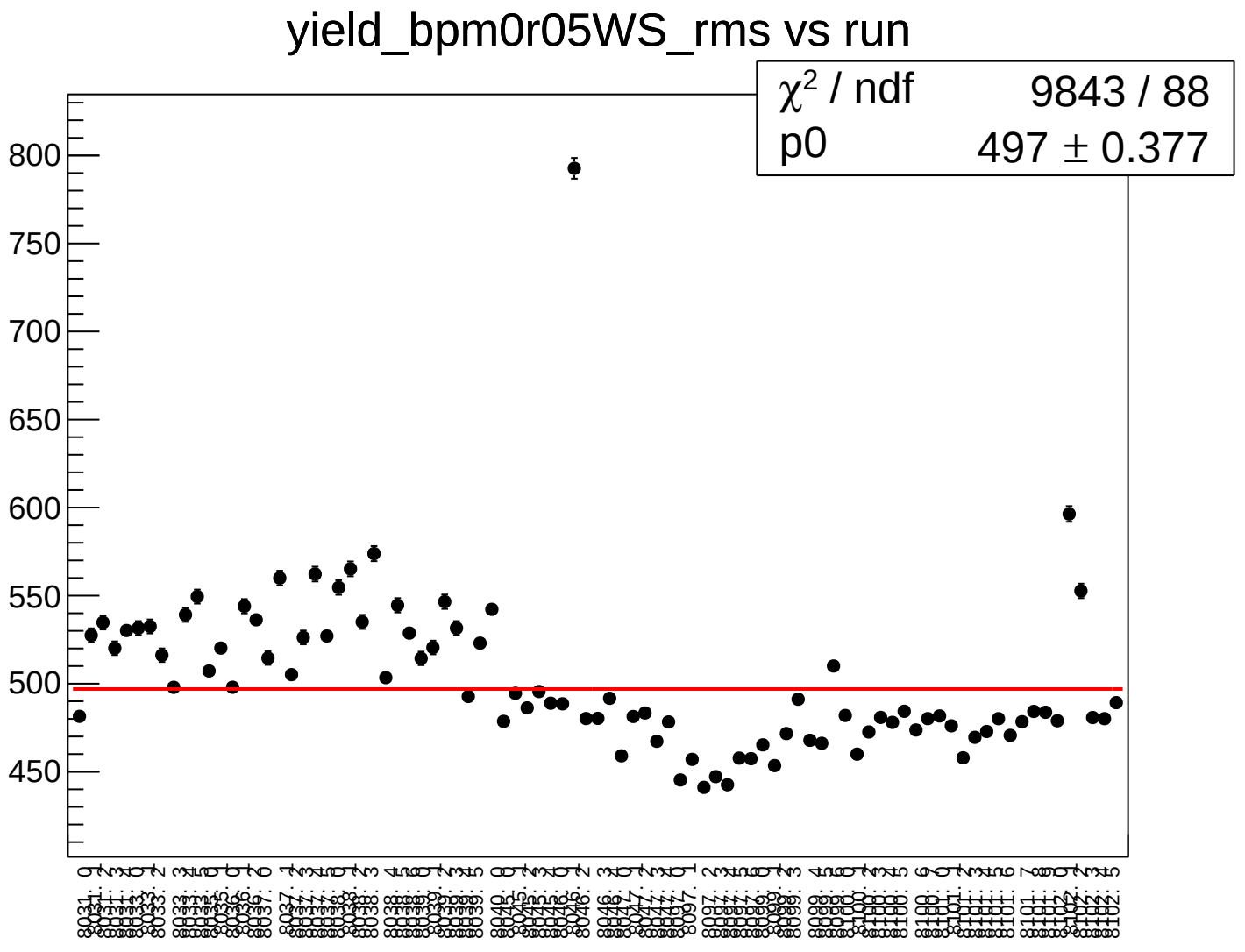

yield_bpm0l10WS_rms vs run
χ² / ndf 2.554e+04 / 88
p0 521.3 ± 0.3973
1000
900
800
700
600
500
400

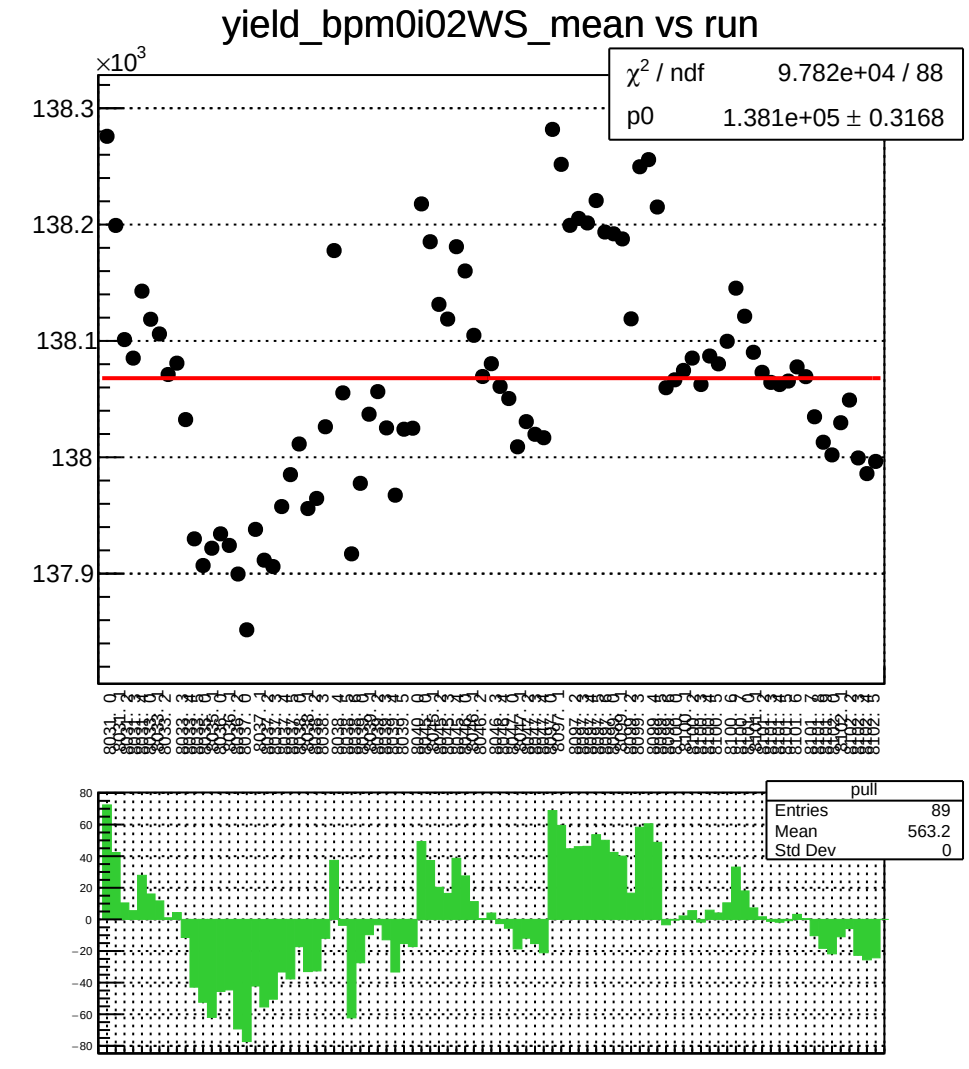

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 3.756e+06 / 88
p0 1.419e+05 ± 0.715
143
142
141
140
139
pull
Entries 89
Mean 6408
Std Dev 0
300
200
100
0
−100
−200
−300
−400

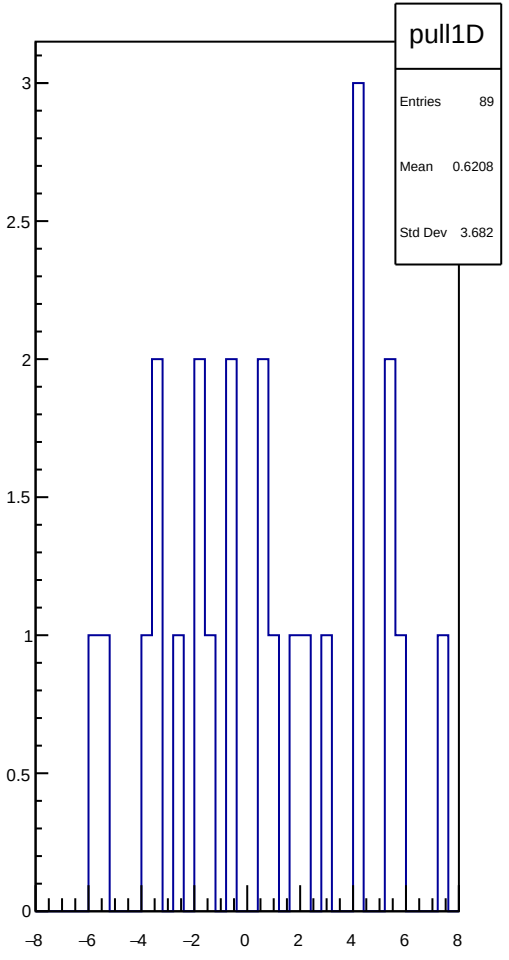

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

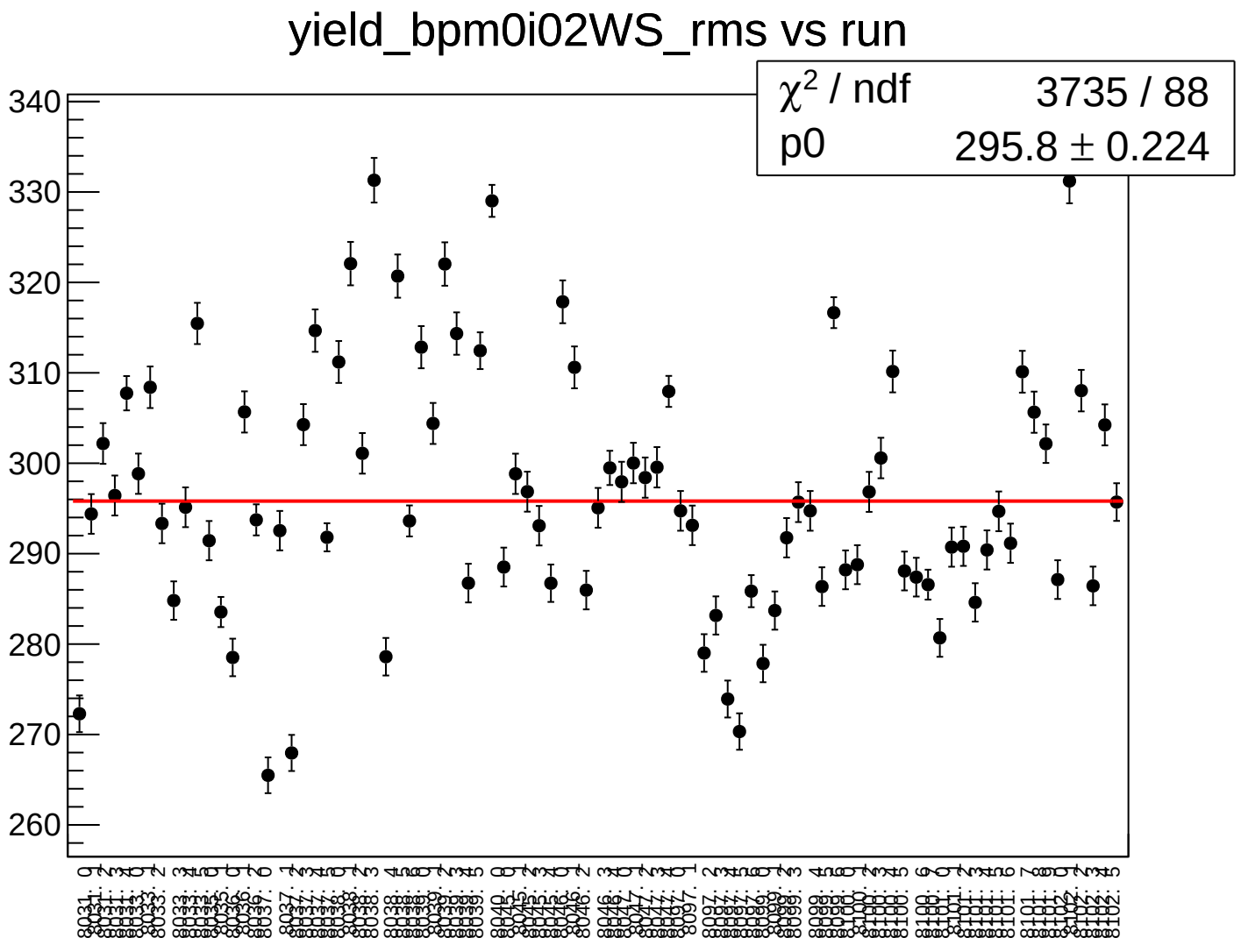

yield_bpm0r03WS_rms vs run
χ² / ndf 2.216e+04 / 88
p0 664.1 ± 0.5056
1400
1200
1000
800
600

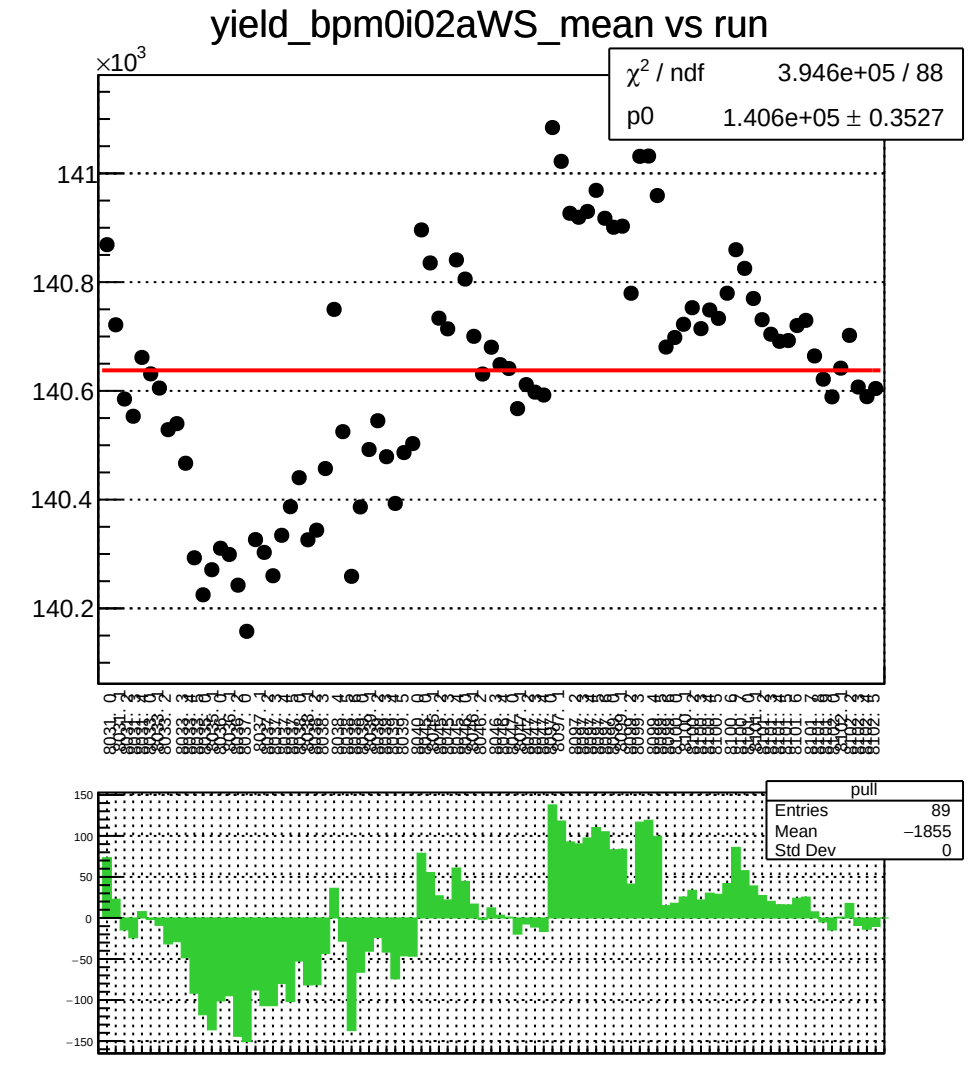

yield_bpm0r05WS_mean vs run
×10^3
χ^2 / ndf 4.142e+07 / 88
p0 1.312e+05 ± 0.5332
135
134
133
132
131
130
129
128
127
pull
Entries 89
Mean −777.2
Std Dev 0
1000
500
0
−500
−1000
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

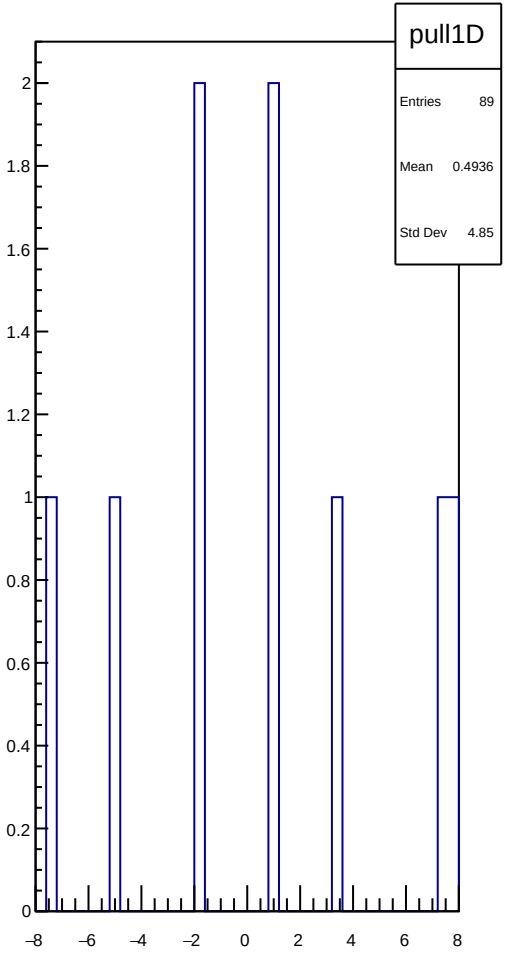

yield_bpm0r05WS_rms vs run
χ² / ndf 9843 / 88
p0 497 ± 0.377
800
750
700
650
600
550
500
450

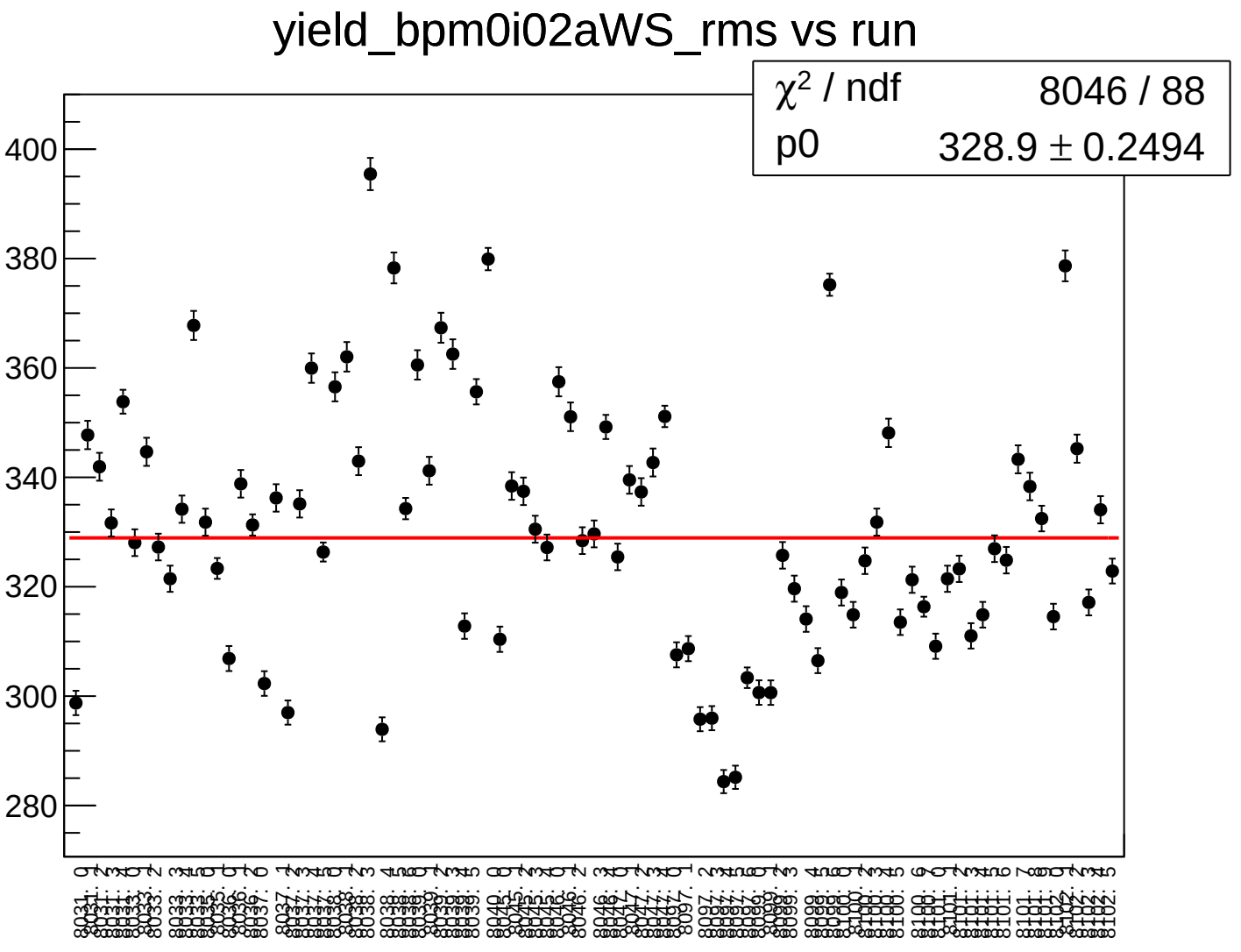

yield_bpm0i02WS_mean vs run
×10^3
χ² / ndf 9.782e+04 / 88
p0 1.381e+05 ± 0.3168
138.3
138.2
138.1
138
137.9
pull
Entries 89
Mean 563.2
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

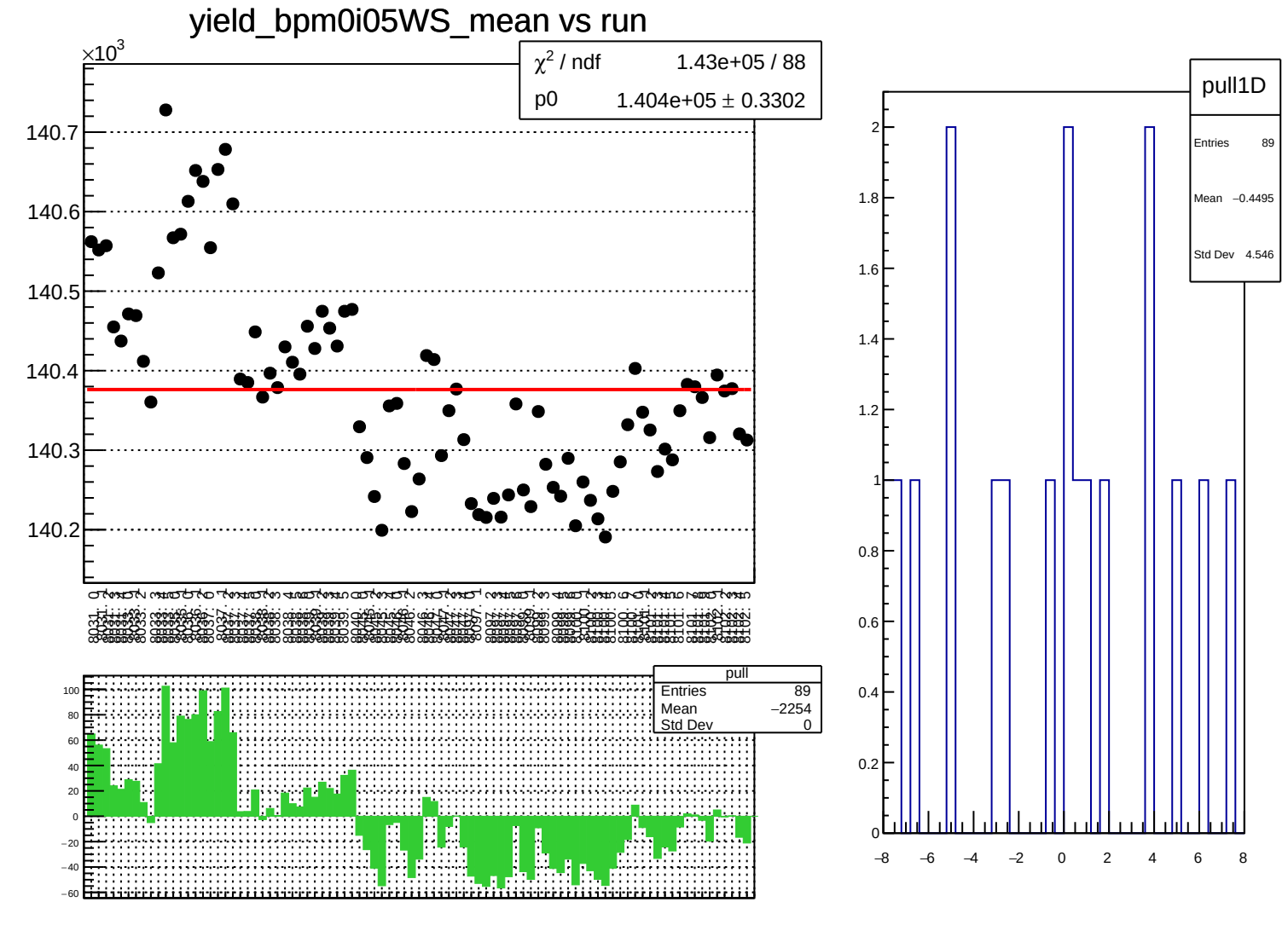

pull1D
Entries 89
Mean 0.6208
Std Dev 3.682
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

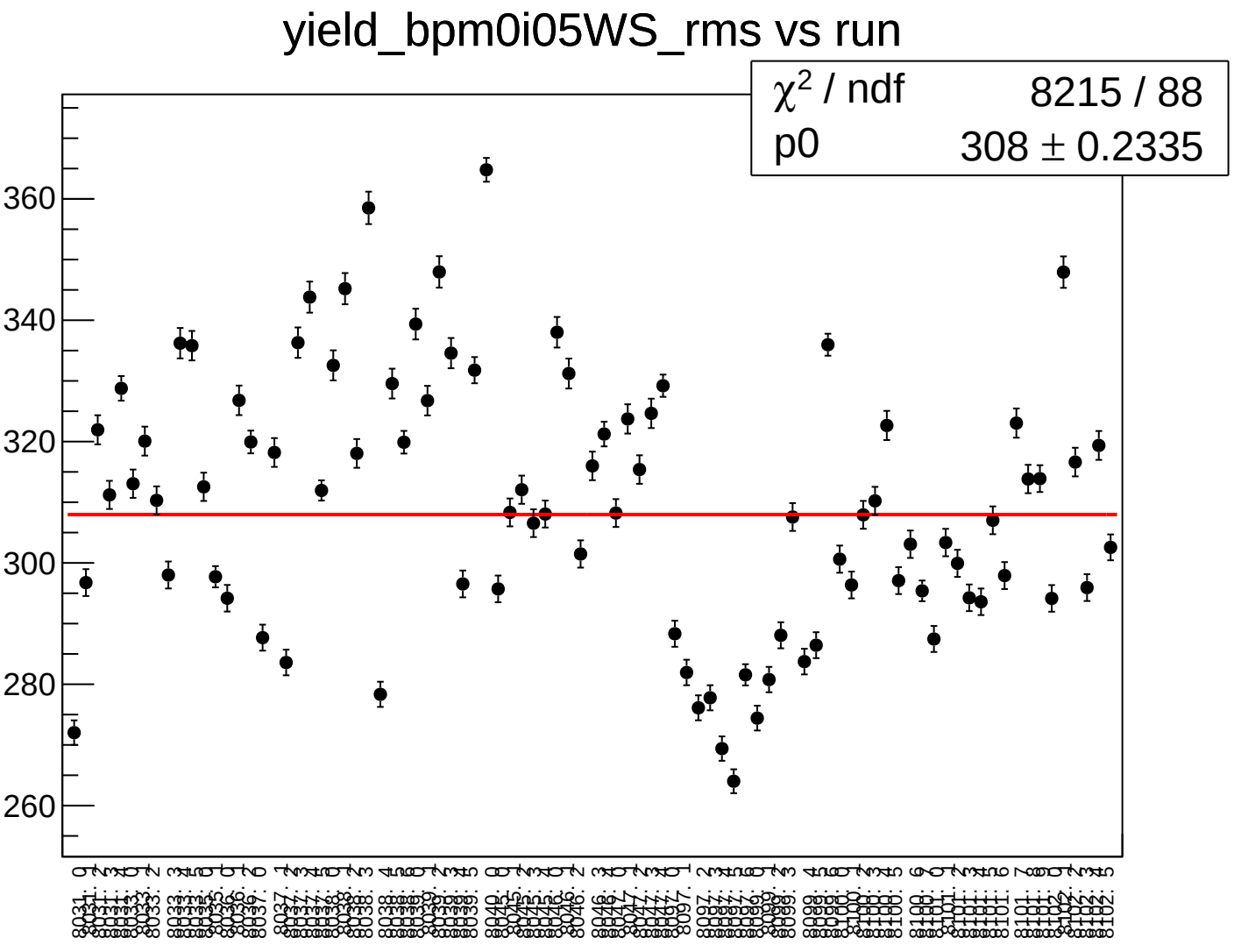

yield_bpm0i02WS_rms vs run
χ² / ndf 3735 / 88
p0 295.8 ± 0.224
340
330
320
310
300
290
280
270
260

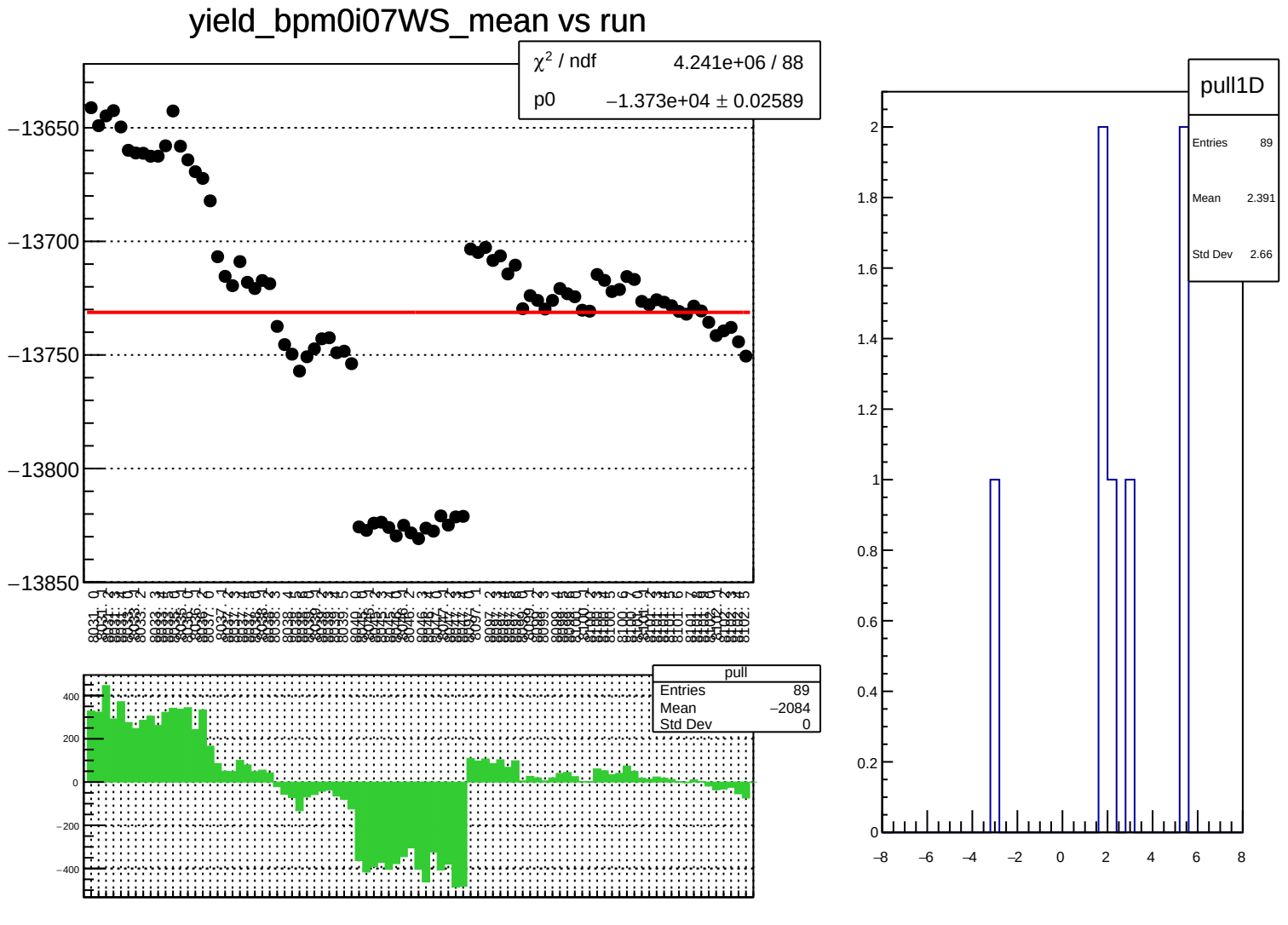

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 3.946e+05 / 88
p0 1.406e+05 ± 0.3527
141
140.8
140.6
140.4
140.2
pull
Entries 89
Mean −1855
Std Dev 0
150
100
50
0
−50
−100
−150

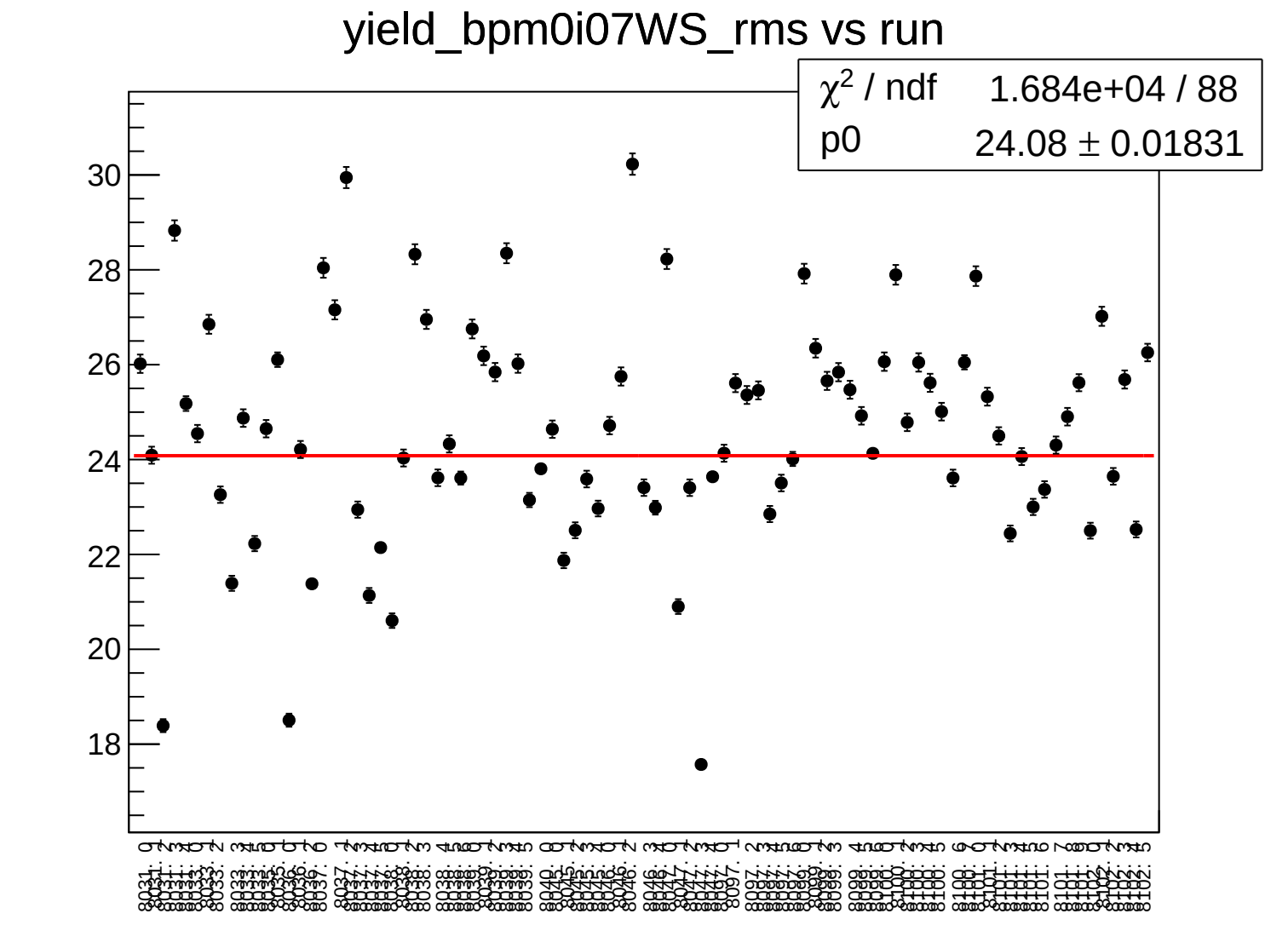

pull1D
Entries 89
Mean 0.4936
Std Dev 4.85
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

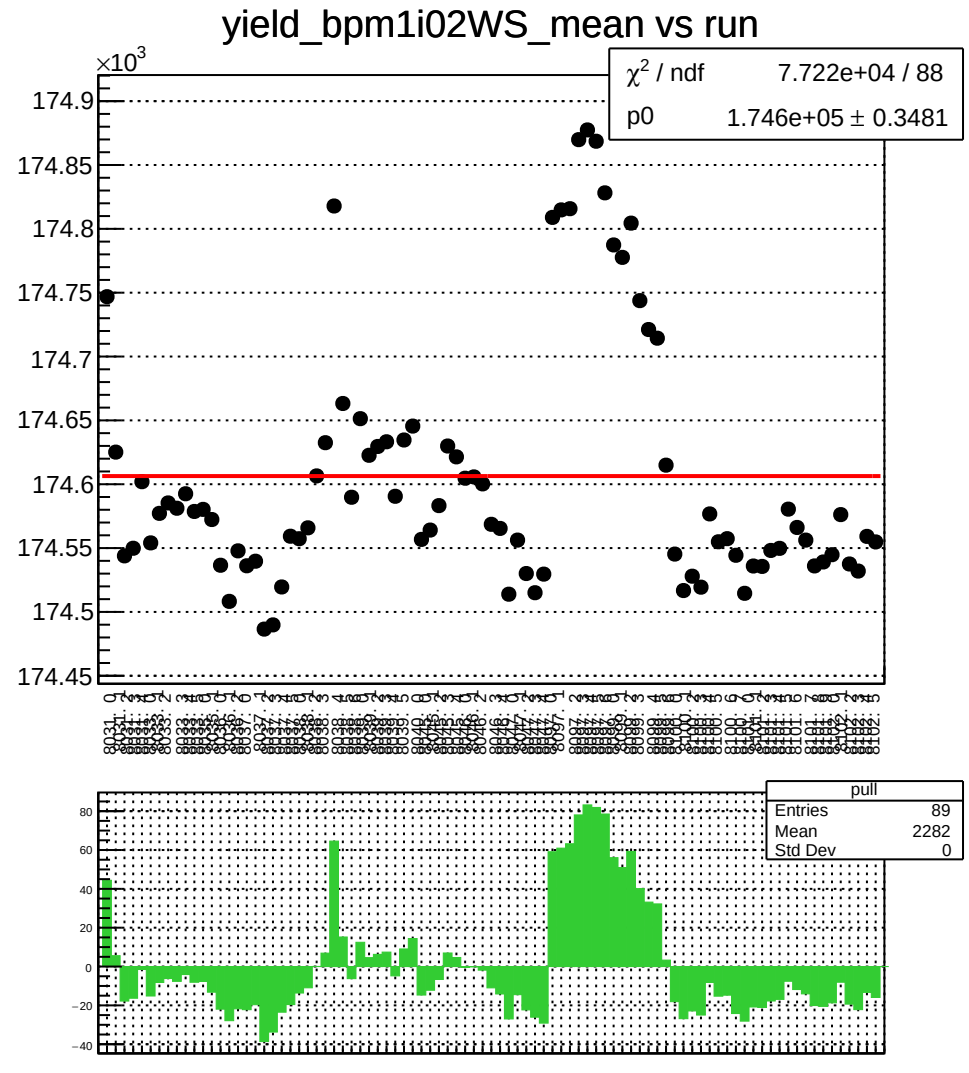

yield_bpm0i02aWS_rms vs run
χ² / ndf 8046 / 88
p0 328.9 ± 0.2494
400
380
360
340
320
300
280

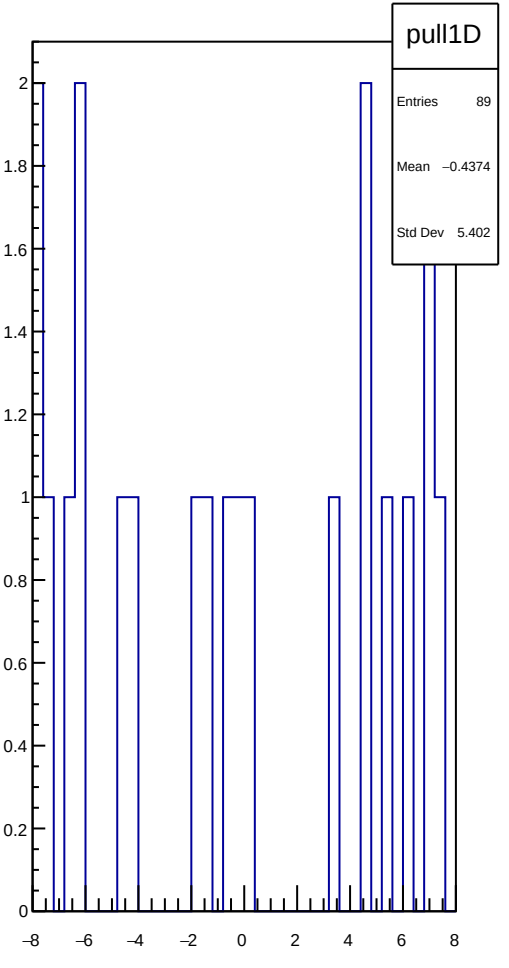

yield_bpm0i05WS_mean vs run
χ² / ndf 1.43e+05 / 88
p0 1.404e+05 ± 0.3302
×10³
140.7
140.6
140.5
140.4
140.3
140.2
pull
Entries 89
Mean −2254
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
pull1D
Entries 89
Mean −0.4495
Std Dev 4.546
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

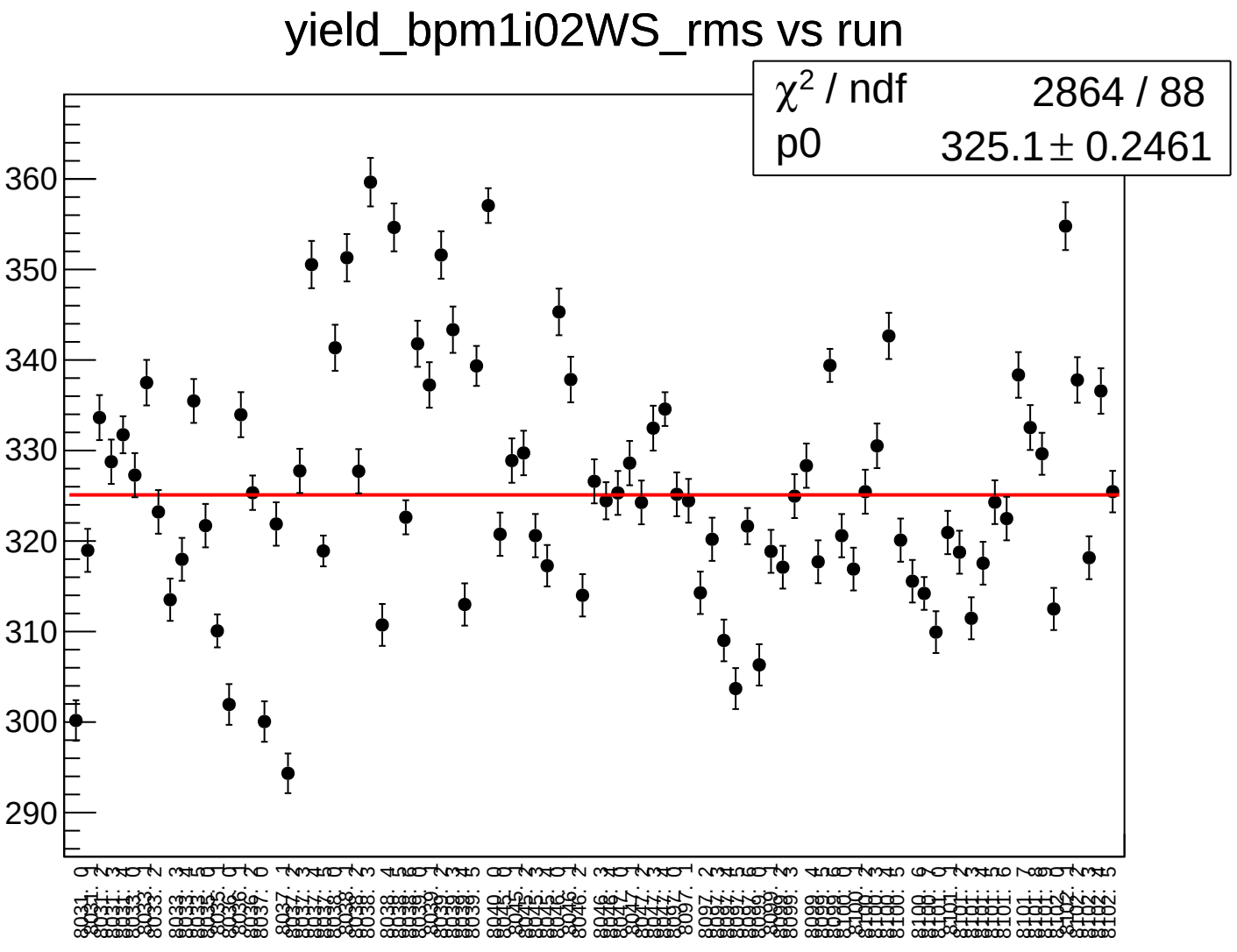

yield_bpm0i05WS_rms vs run
$\chi^2$ / ndf 8215 / 88
p0 308 ± 0.2335
360
340
320
300
280
260

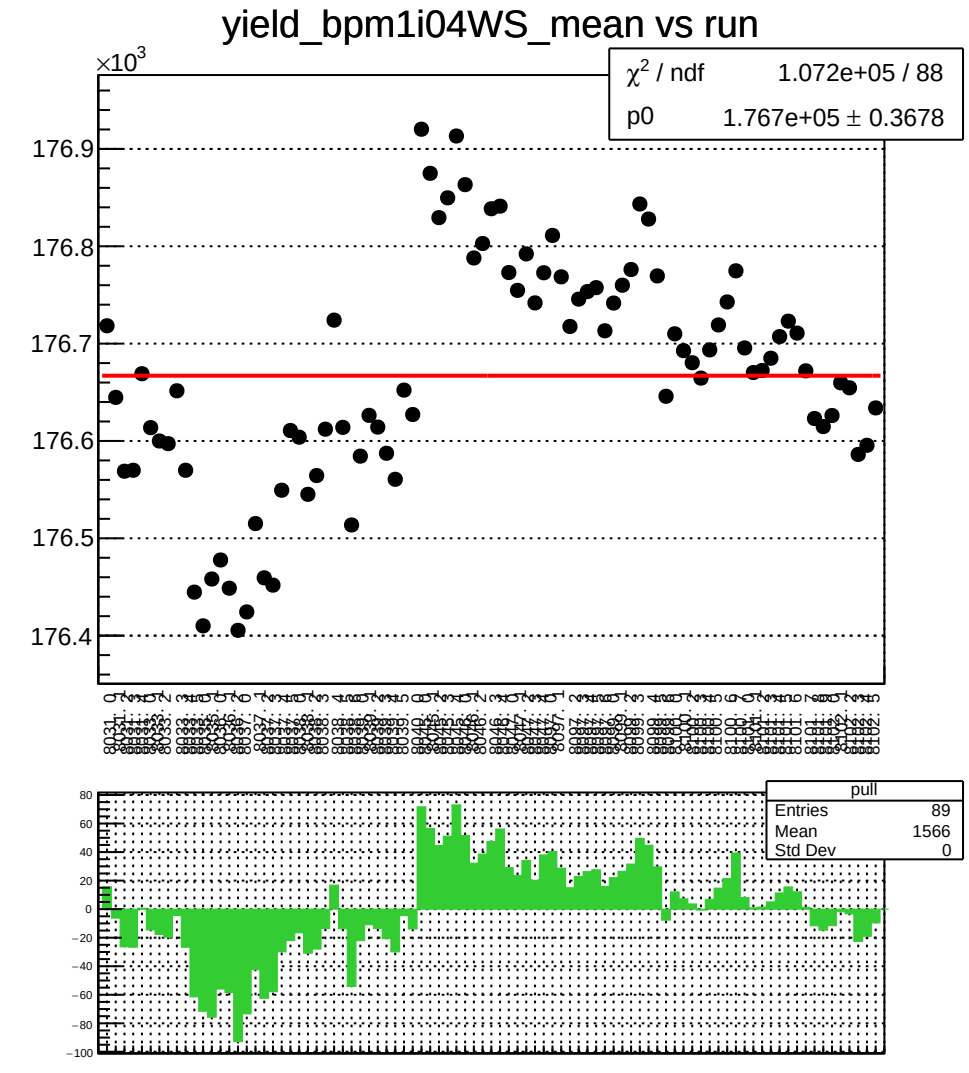

yield_bpm0i07WS_mean vs run
χ² / ndf 4.241e+06 / 88
p0 −1.373e+04 ± 0.02589
−13650
−13700
−13750
−13800
−13850
pull
Entries 89
Mean −2084
Std Dev 0
400
200
0
−200
−400
pull1D
Entries 89
Mean 2.391
Std Dev 2.66
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

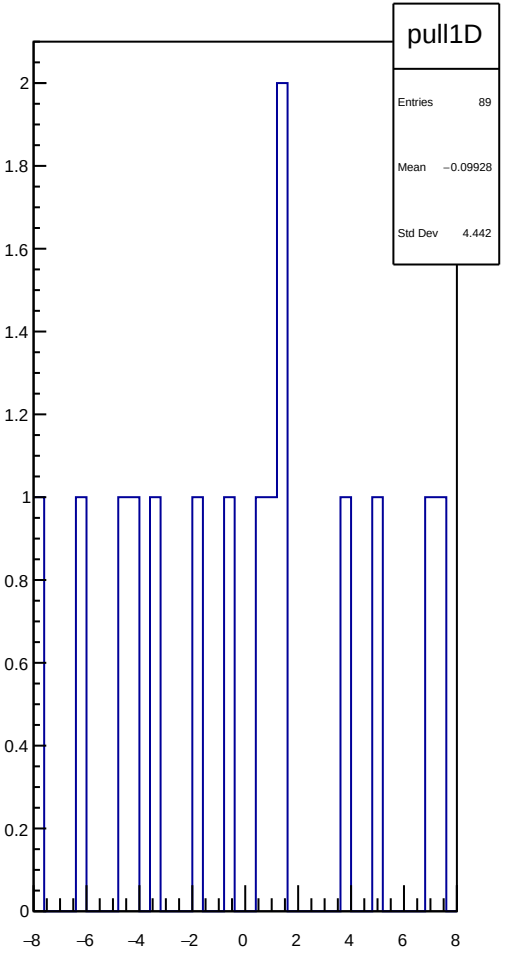

yield_bpm0i07WS_rms vs run
$\chi^2$ / ndf 1.684e+04 / 88
p0 24.08 ± 0.01831
30
28
26
24
22
20
18

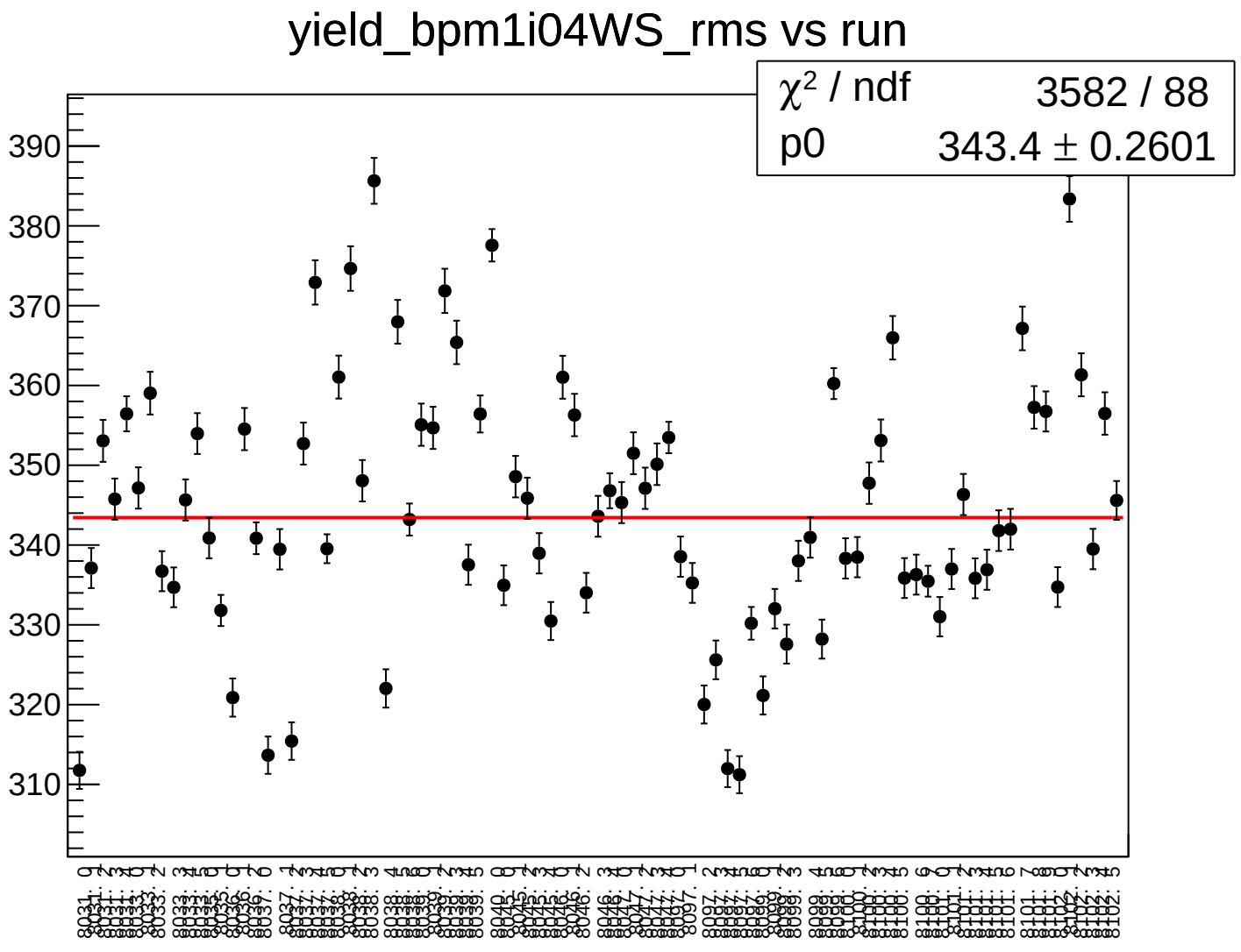

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 7.722e+04 / 88
p0 1.746e+05 ± 0.3481
174.9
174.85
174.8
174.75
174.7
174.65
174.6
174.55
174.5
174.45
pull
Entries 89
Mean 2282
Std Dev 0
80
60
40
20
0
−20
−40

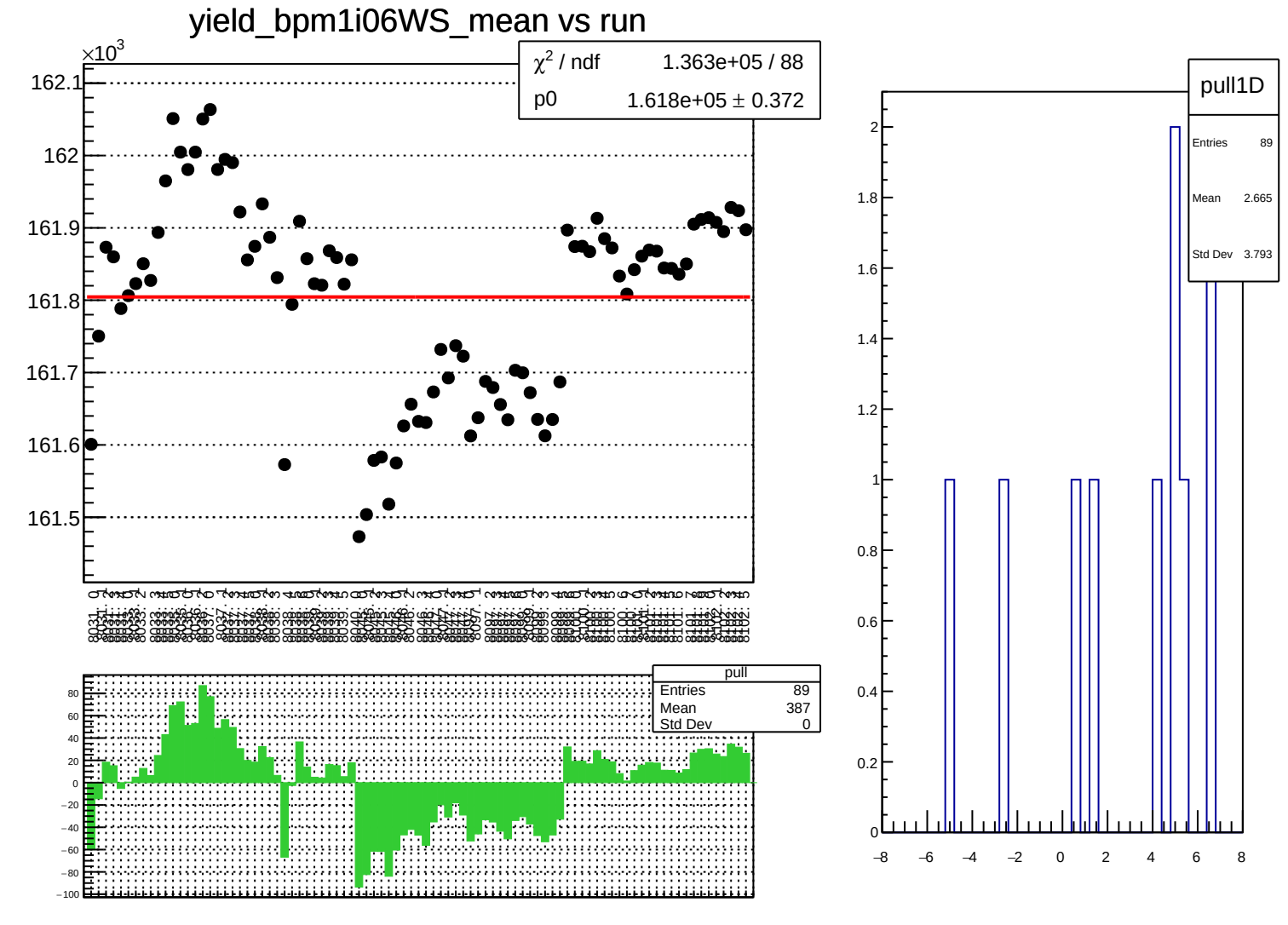

pull1D
Entries 89
Mean −0.4374
Std Dev 5.402
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

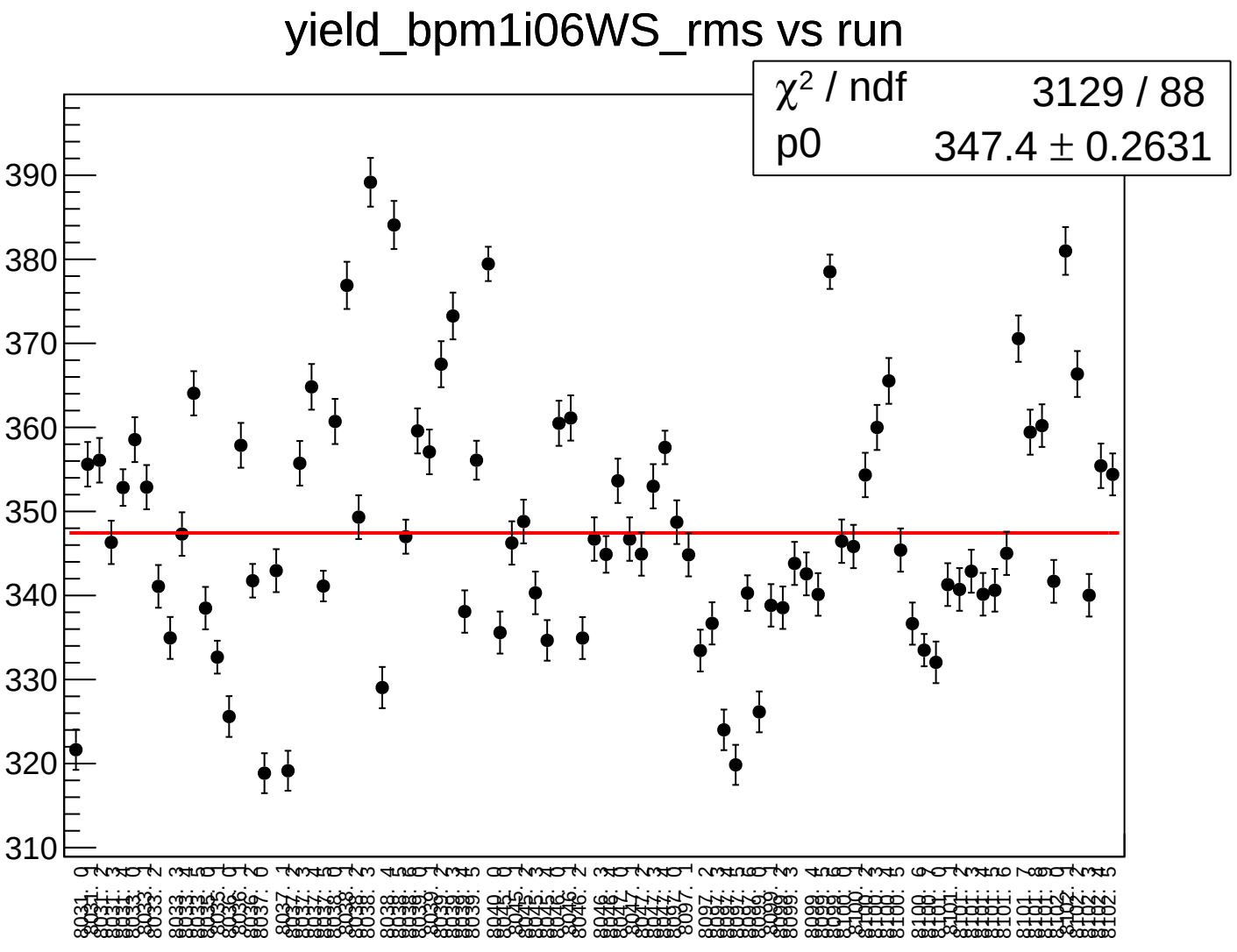

yield_bpm1i02WS_rms vs run
χ² / ndf 2864 / 88
p0 325.1 ± 0.2461
360
350
340
330
320
310
300
290

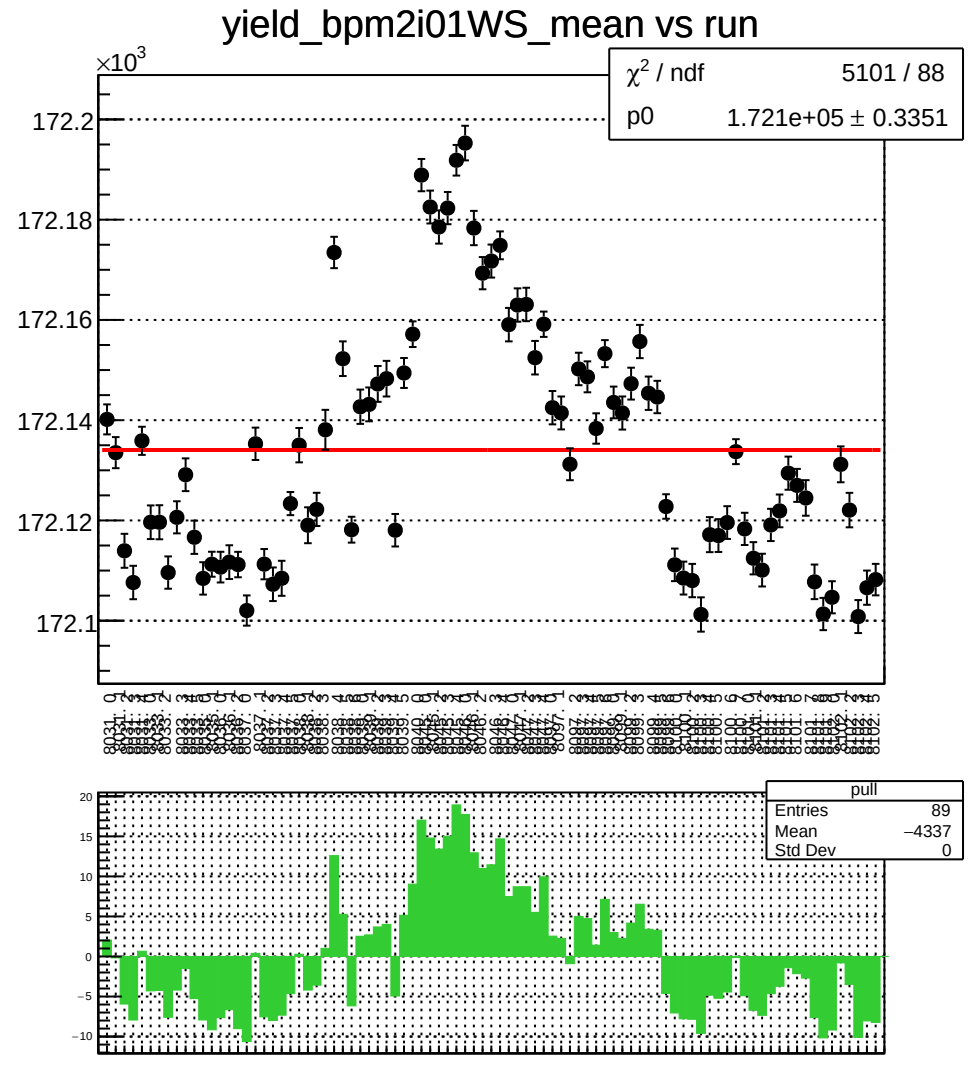

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 1.072e+05 / 88
p0 1.767e+05 ± 0.3678
176.9
176.8
176.7
176.6
176.5
176.4
pull
Entries 89
Mean 1566
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100

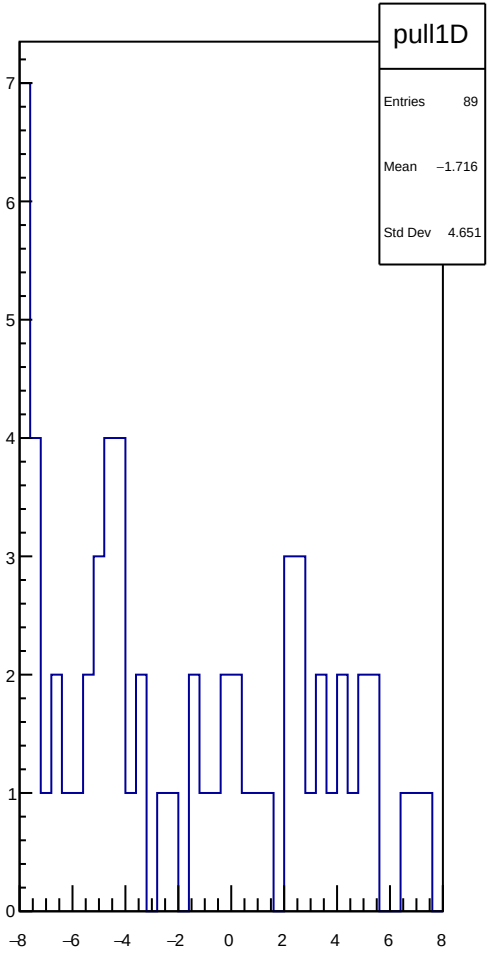

pull1D
Entries 89
Mean −0.09928
Std Dev 4.442
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

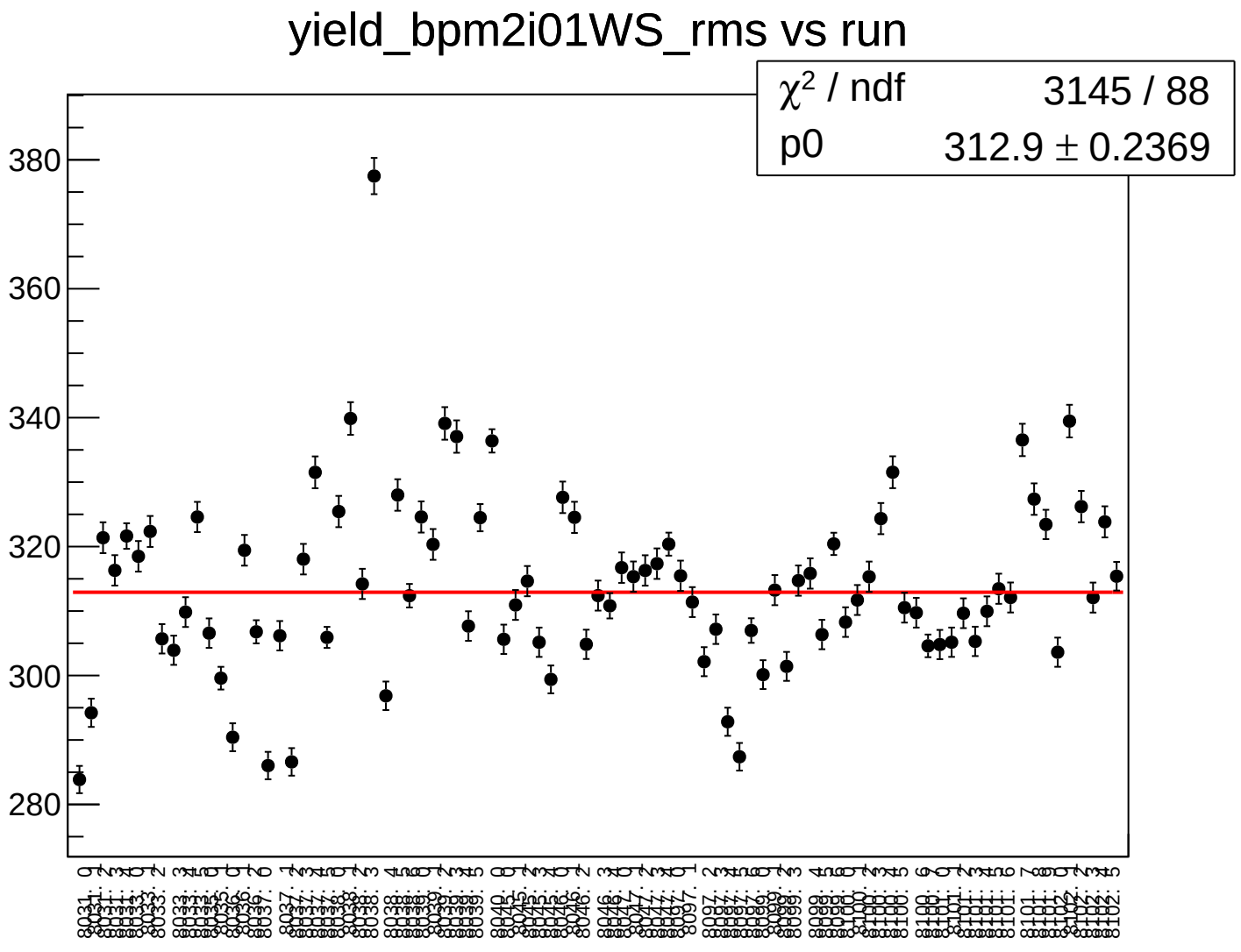

yield_bpm1i04WS_rms vs run
χ² / ndf 3582 / 88
p0 343.4 ± 0.2601
390
380
370
360
350
340
330
320
310

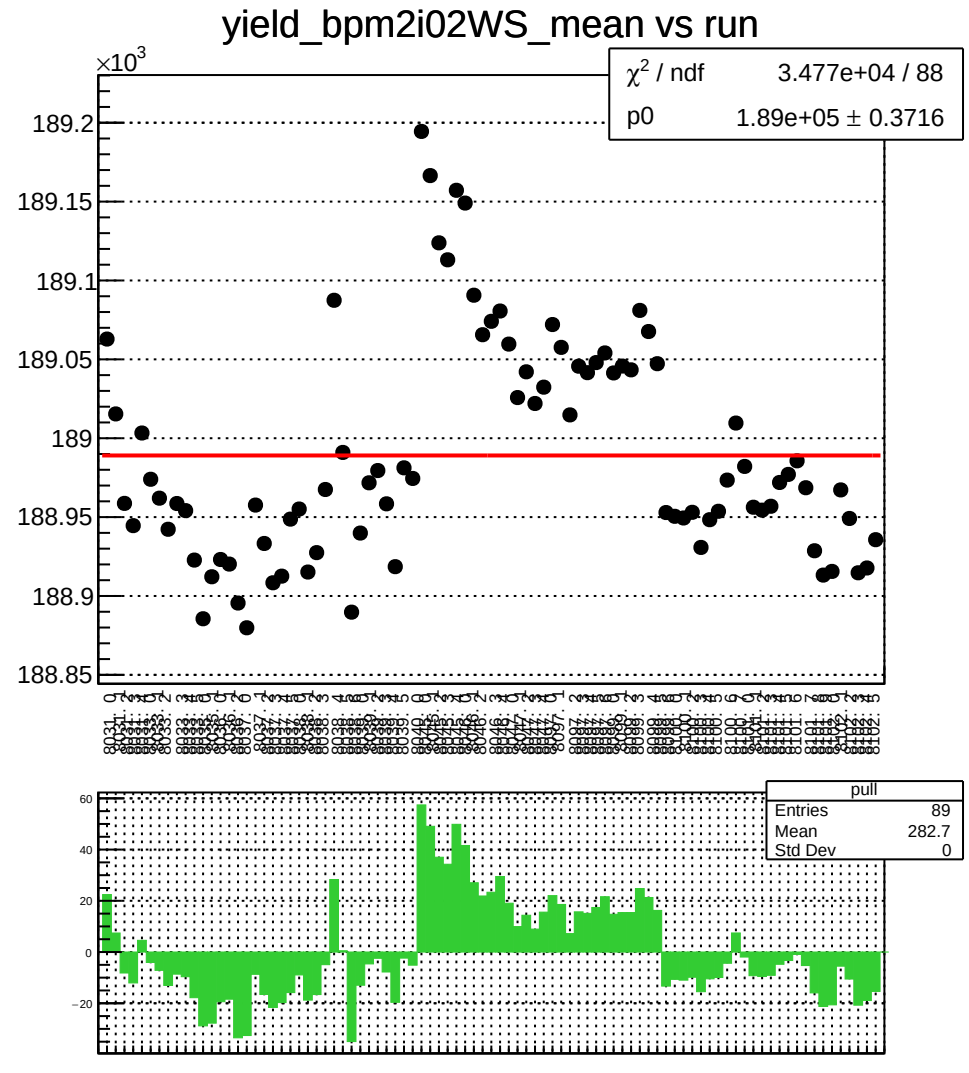

yield_bpm1i06WS_mean vs run
×10^3
χ^2 / ndf 1.363e+05 / 88
p0 1.618e+05 ± 0.372
162.1
162
161.9
161.8
161.7
161.6
161.5
pull
Entries 89
Mean 387
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100
pull1D
Entries 89
Mean 2.665
Std Dev 3.793
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

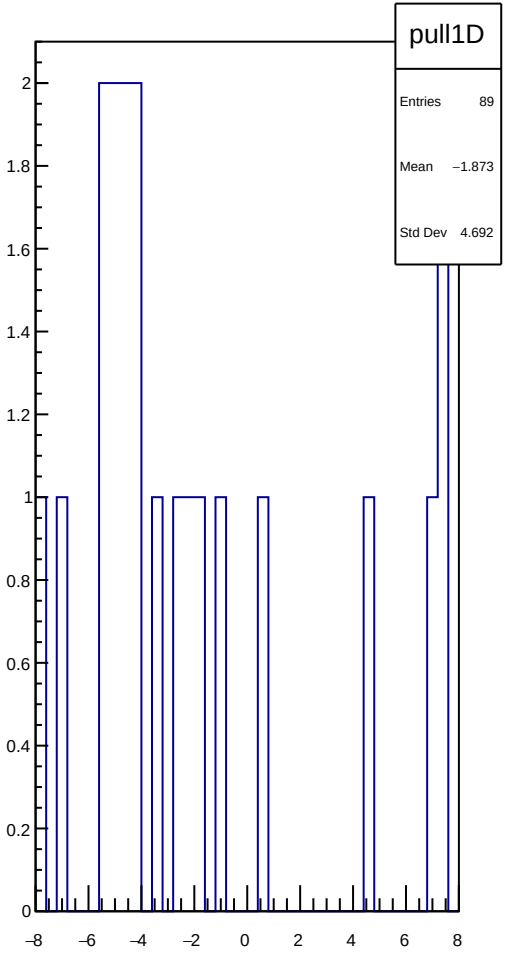

yield_bpm1i06WS_rms vs run
χ² / ndf 3129 / 88
p0 347.4 ± 0.2631
390
380
370
360
350
340
330
320
310

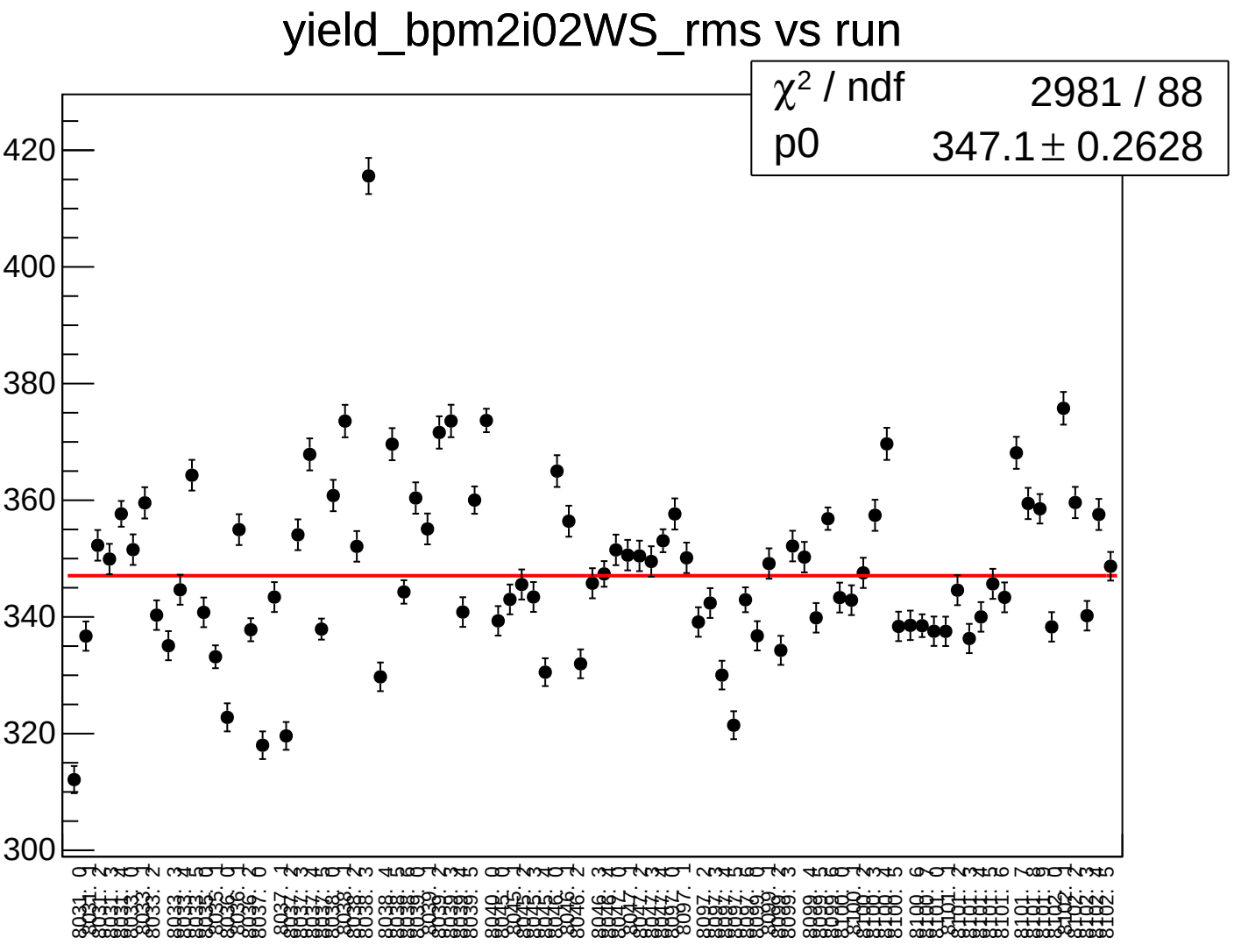

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 5101 / 88
p0 1.721e+05 ± 0.3351
172.2
172.18
172.16
172.14
172.12
172.1
pull
Entries 89
Mean −4337
Std Dev 0
20
15
10
5
0
−5
−10

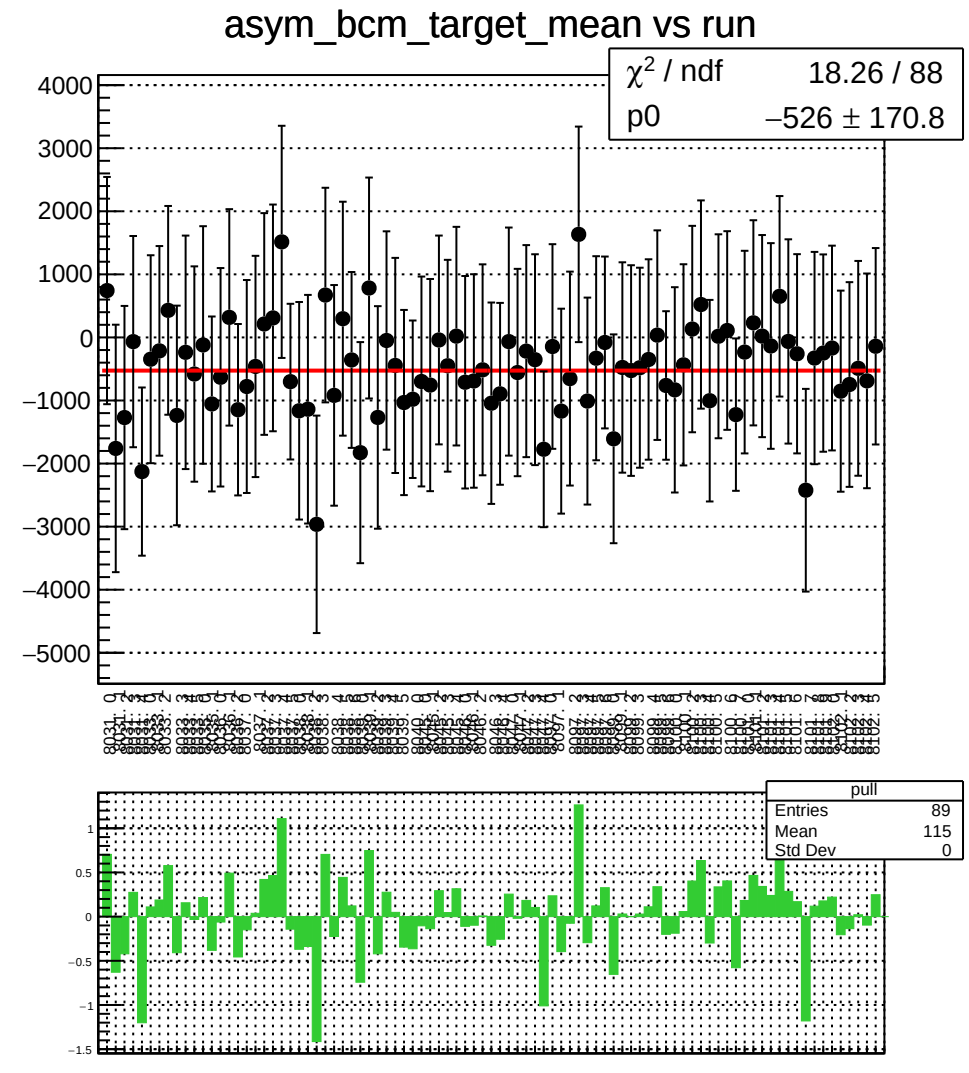

pull1D
Entries 89
Mean −1.716
Std Dev 4.651
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

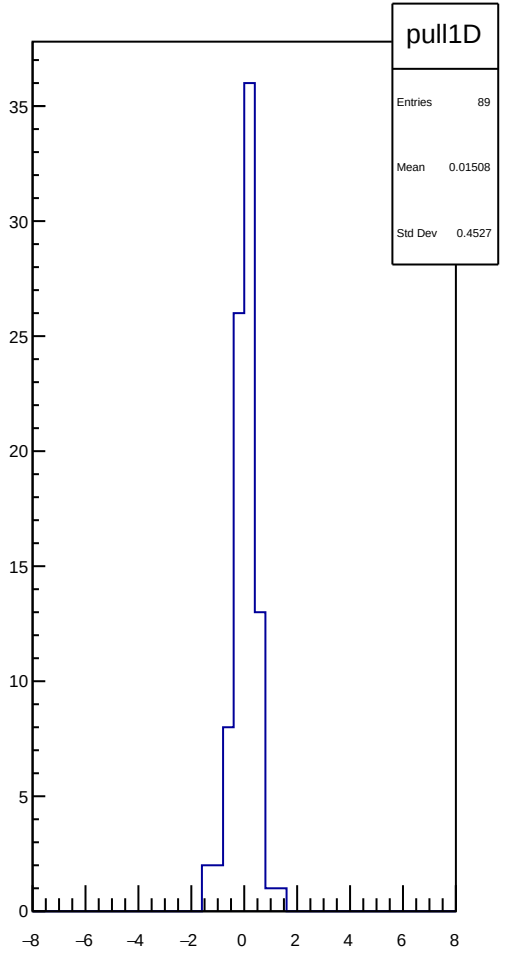

yield_bpm2i01WS_rms vs run
χ² / ndf 3145 / 88
p0 312.9 ± 0.2369
380
360
340
320
300
280

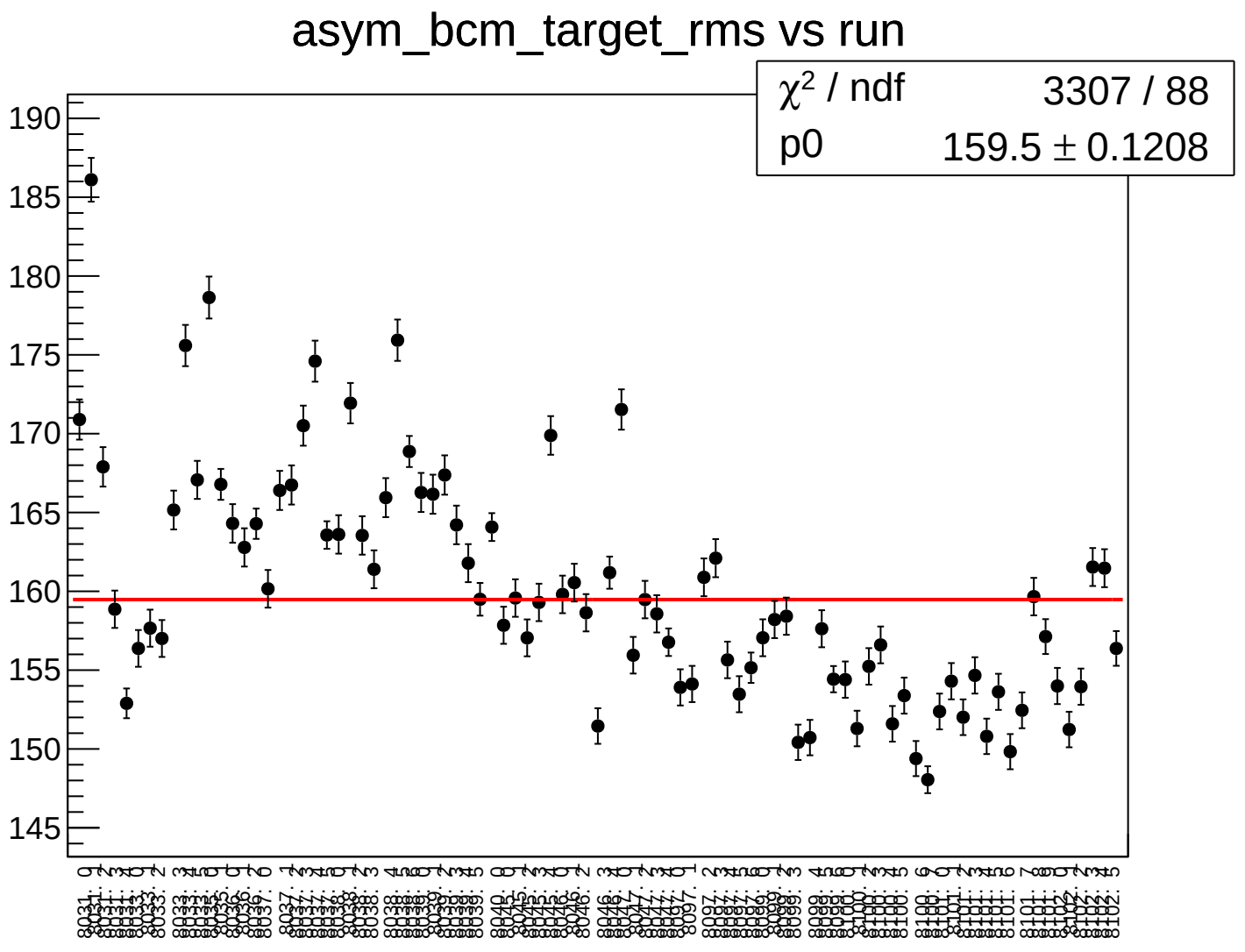

yield_bpm2i02WS_mean vs run
×10^3
χ^2 / ndf 3.477e+04 / 88
p0 1.89e+05 ± 0.3716
189.2
189.15
189.1
189.05
189
188.95
188.9
188.85
pull
Entries 89
Mean 282.7
Std Dev 0
60
40
20
0
−20

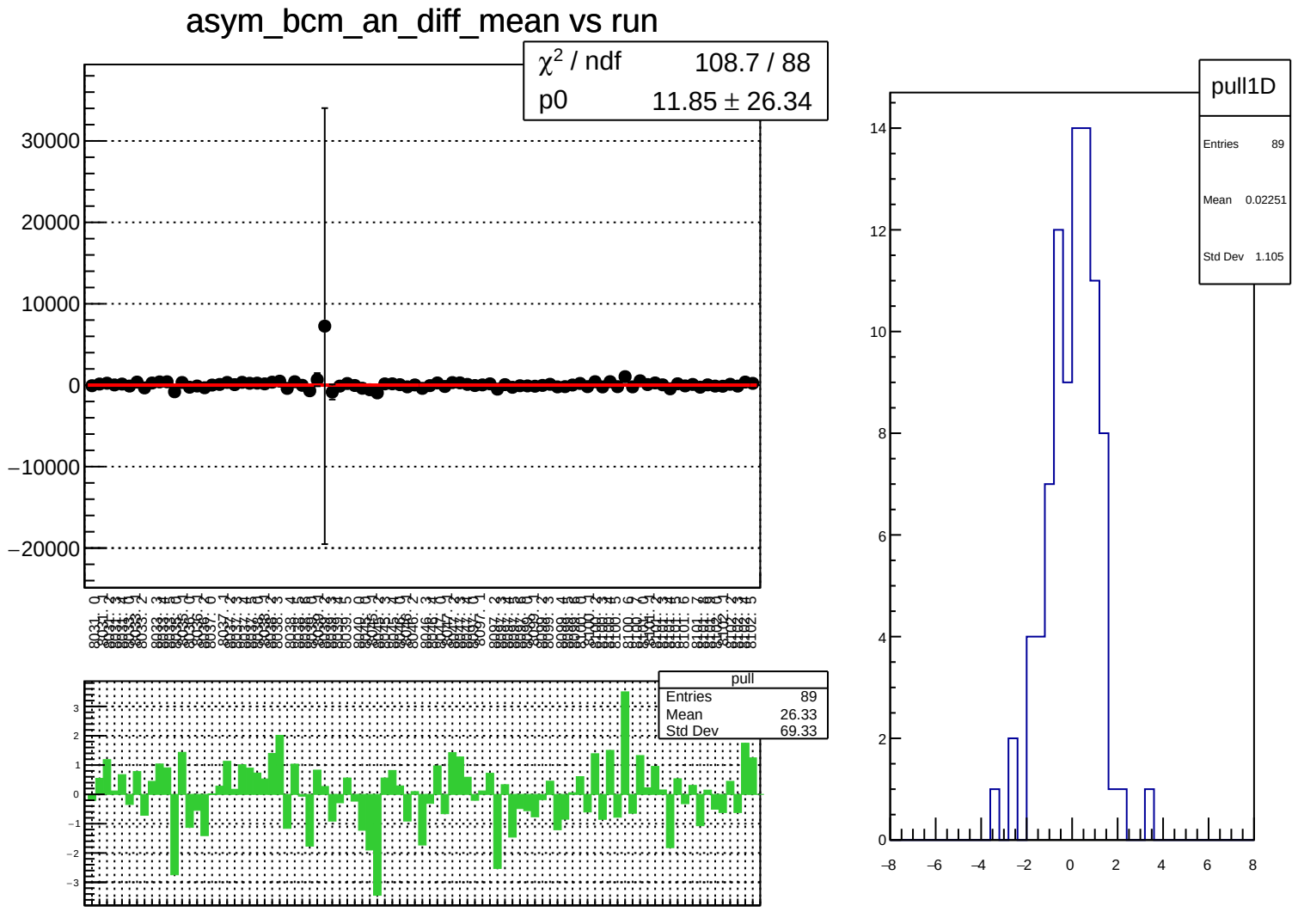

pull1D
Entries 89
Mean −1.873
Std Dev 4.692
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

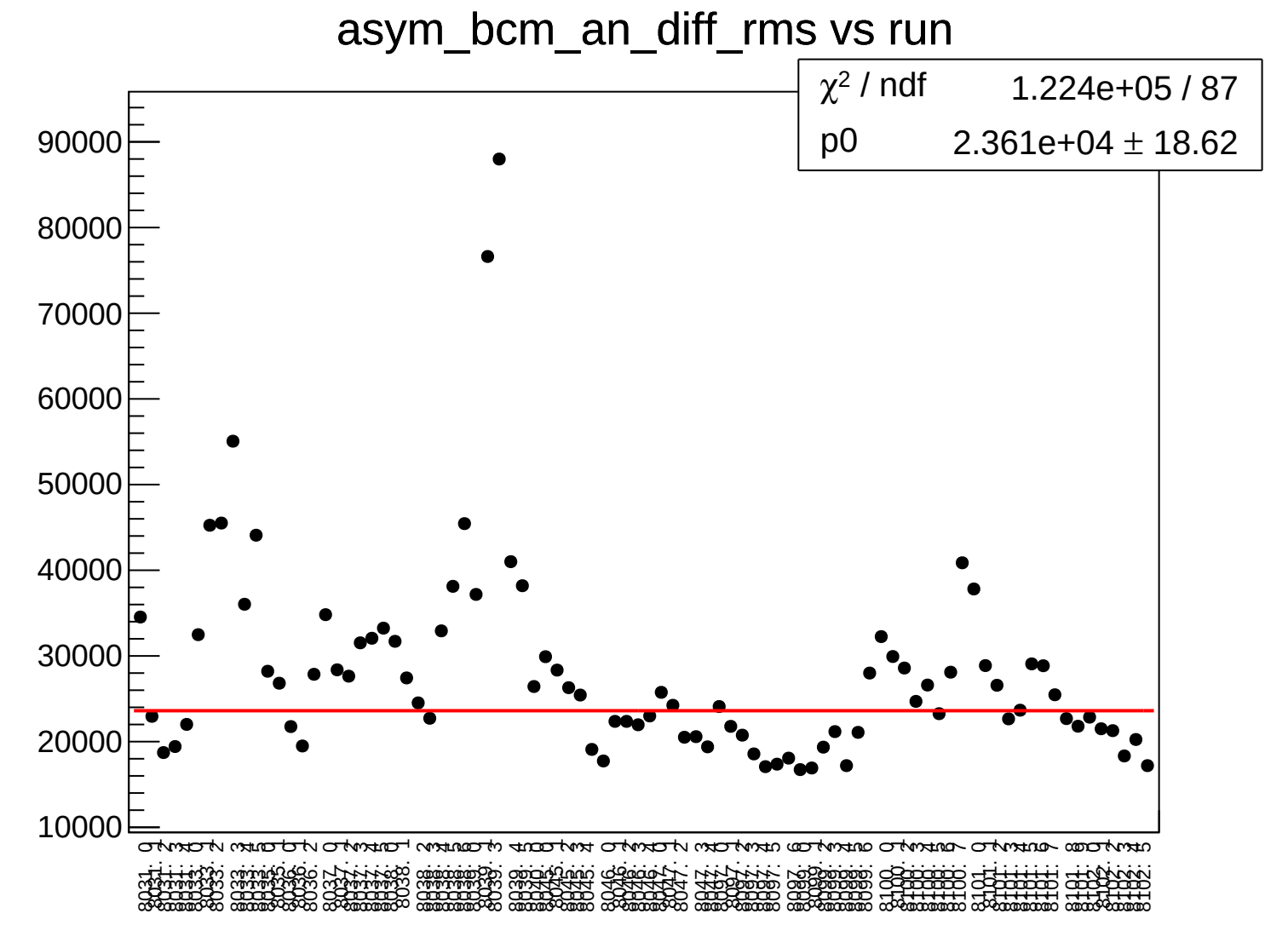

yield_bpm2i02WS_rms vs run
χ² / ndf 2981 / 88
p0 347.1 ± 0.2628
420
400
380
360
340
320
300

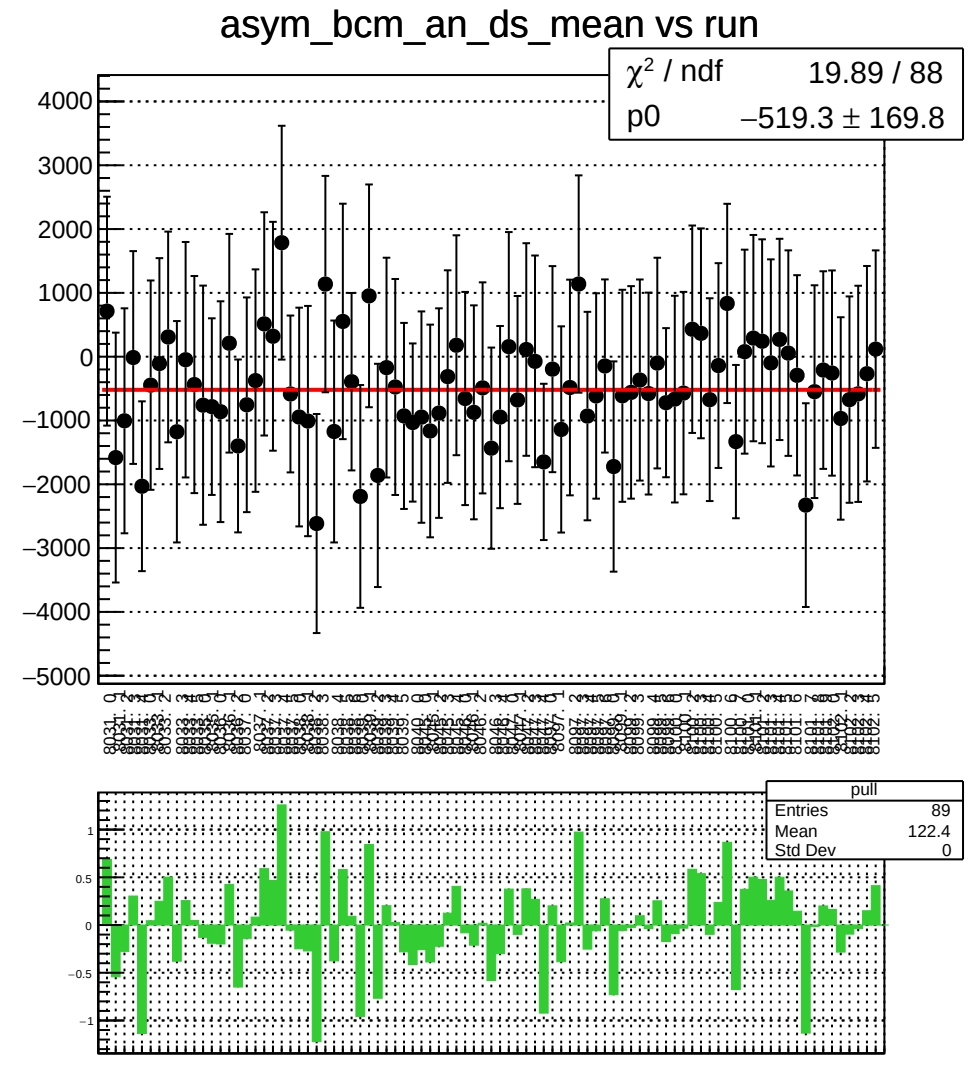

asym_bcm_target_mean vs run
χ² / ndf 18.26 / 88
p0 −526 ± 170.8
pull
Entries 89
Mean 115
Std Dev 0

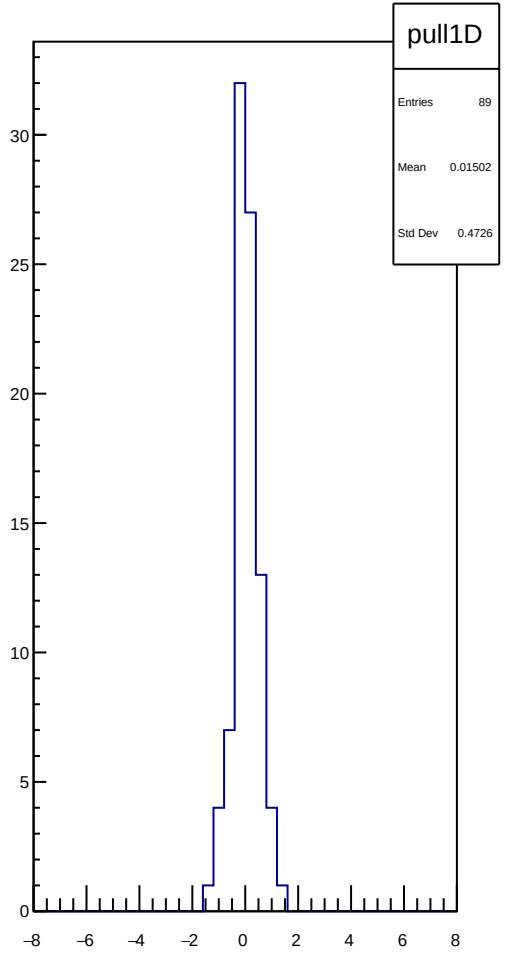

pull1D
Entries 89
Mean 0.01508
Std Dev 0.4527

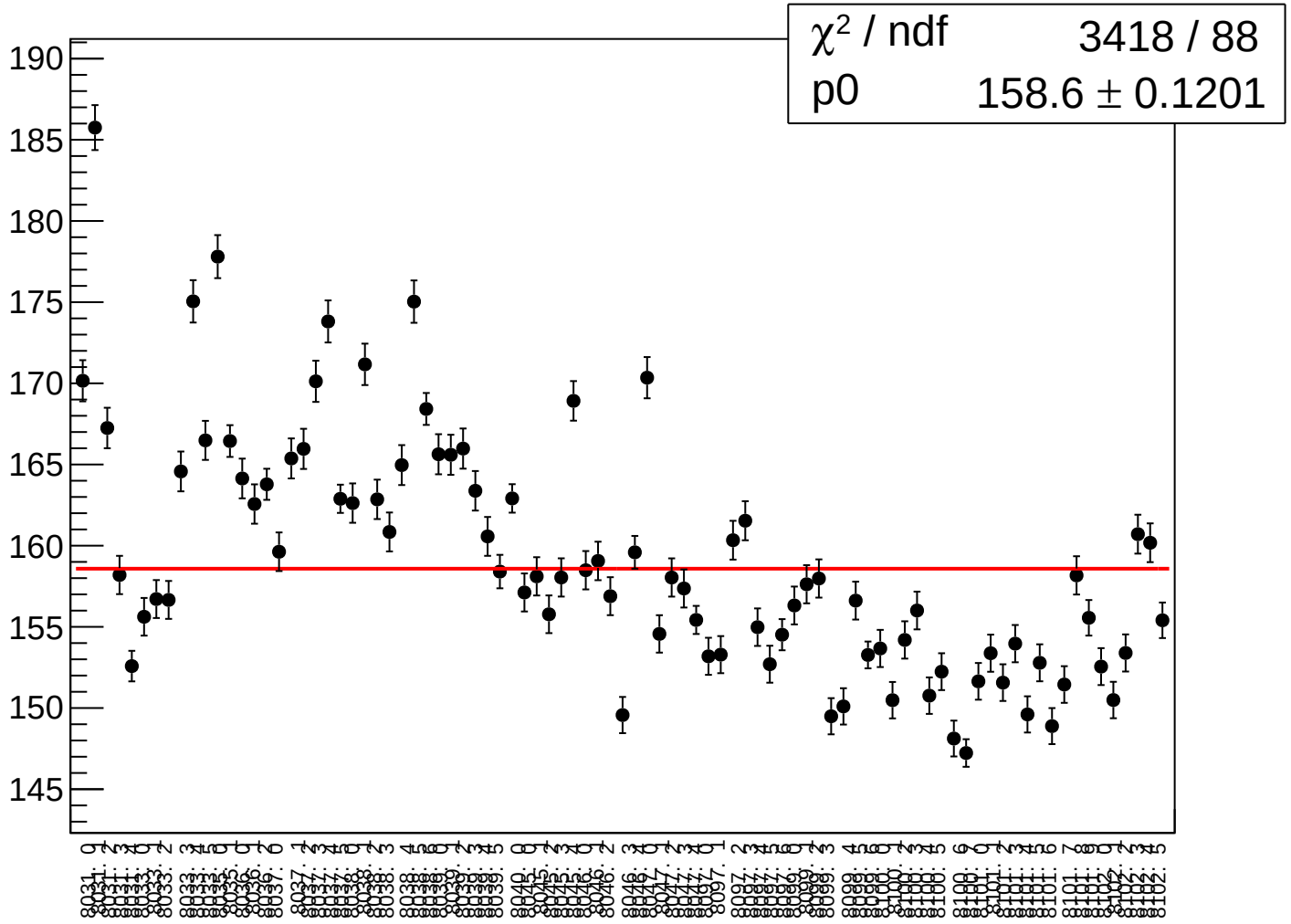

asym_bcm_target_rms vs run
χ² / ndf 3307 / 88
p0 159.5 ± 0.1208
190
185
180
175
170
165
160
155
150
145

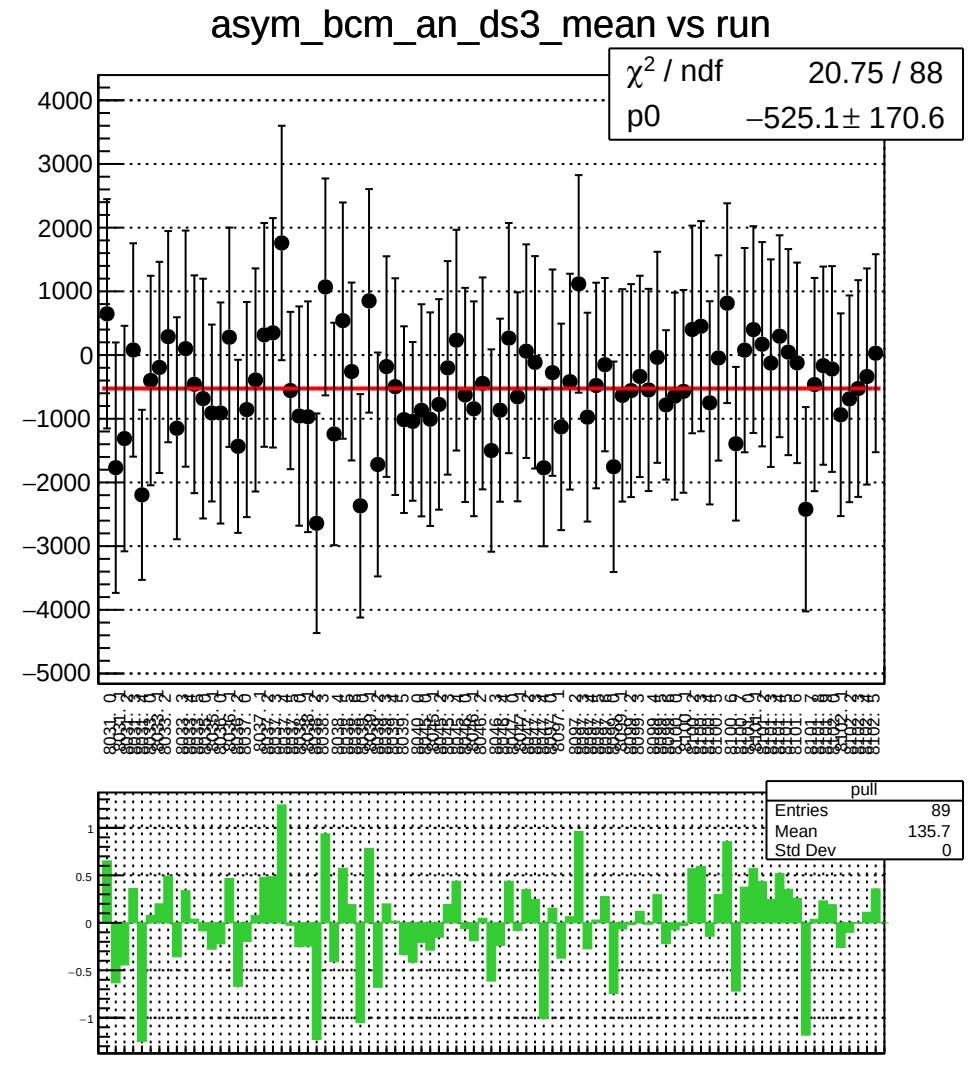

asym_bcm_an_diff_mean vs run
χ² / ndf 108.7 / 88
p0 11.85 ± 26.34
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 26.33
Std Dev 69.33
3
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.02251
Std Dev 1.105
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

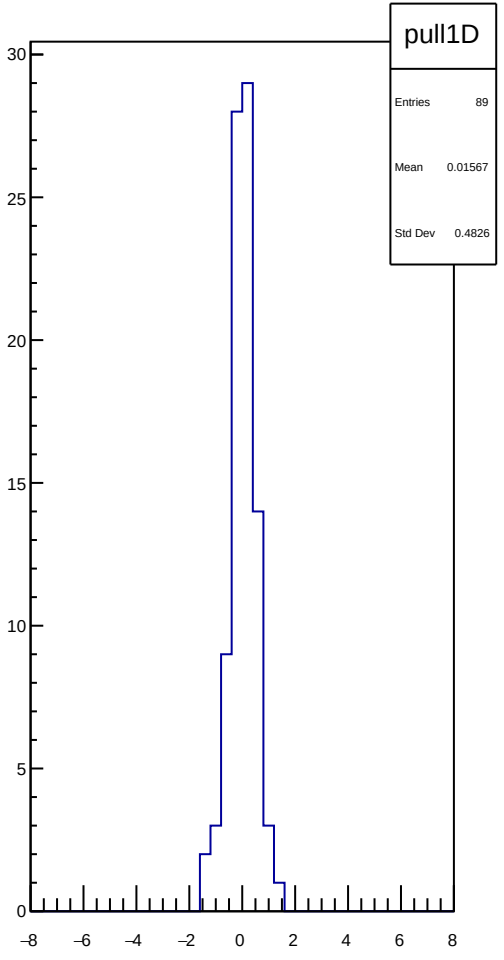

asym_bcm_an_diff_rms vs run
χ² / ndf 1.224e+05 / 87
p0 2.361e+04 ± 18.62
90000
80000
70000
60000
50000
40000
30000
20000
10000

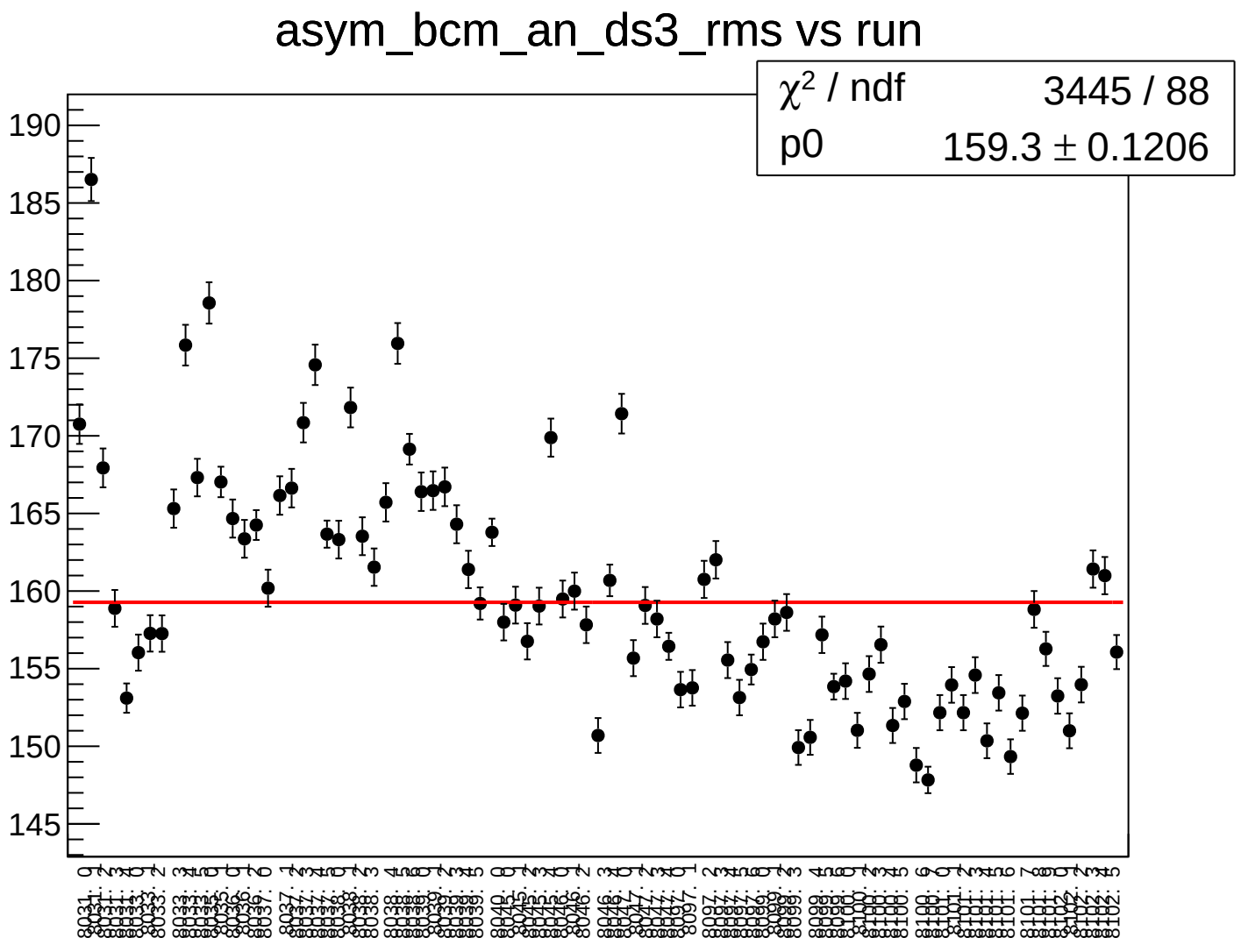

asym_bcm_an_ds_mean vs run
χ² / ndf 19.89 / 88
p0 −519.3 ± 169.8
pull
Entries 89
Mean 122.4
Std Dev 0

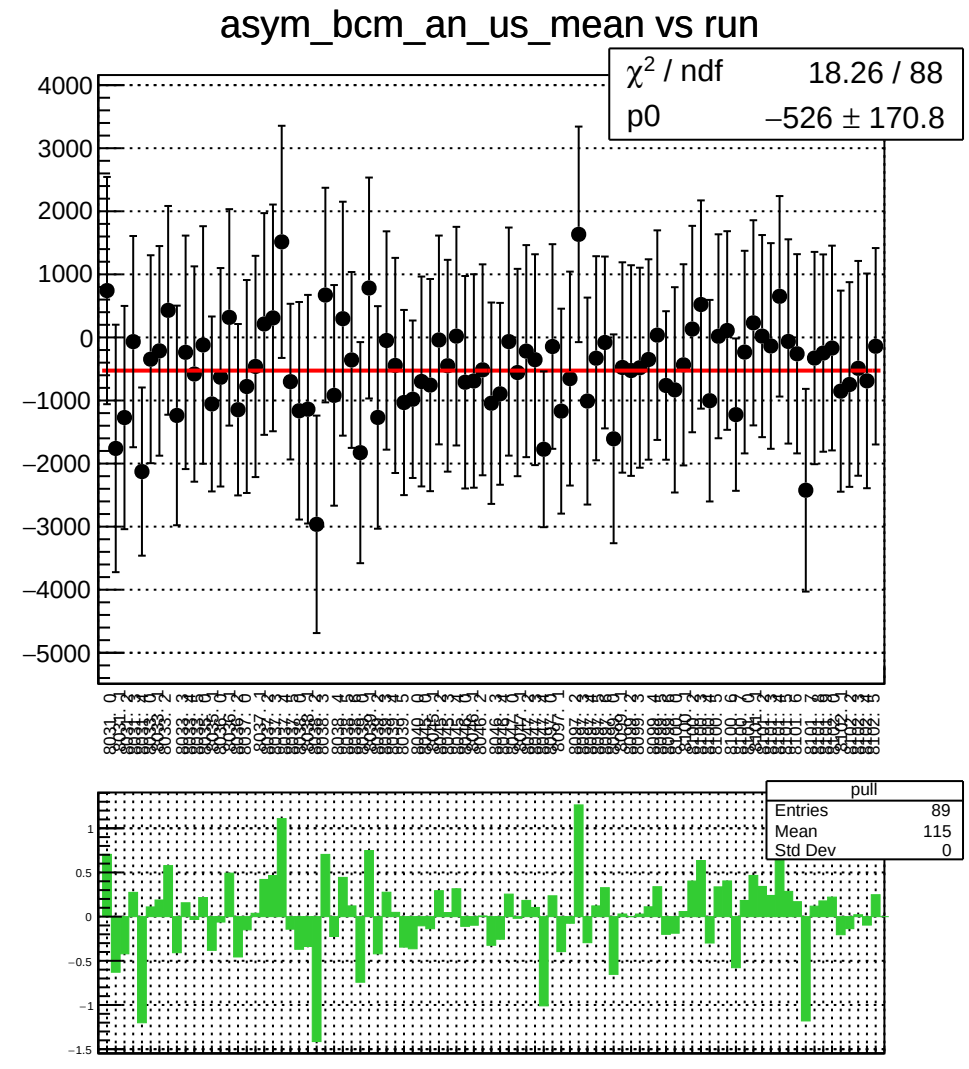

pull1D
Entries 89
Mean 0.01502
Std Dev 0.4726

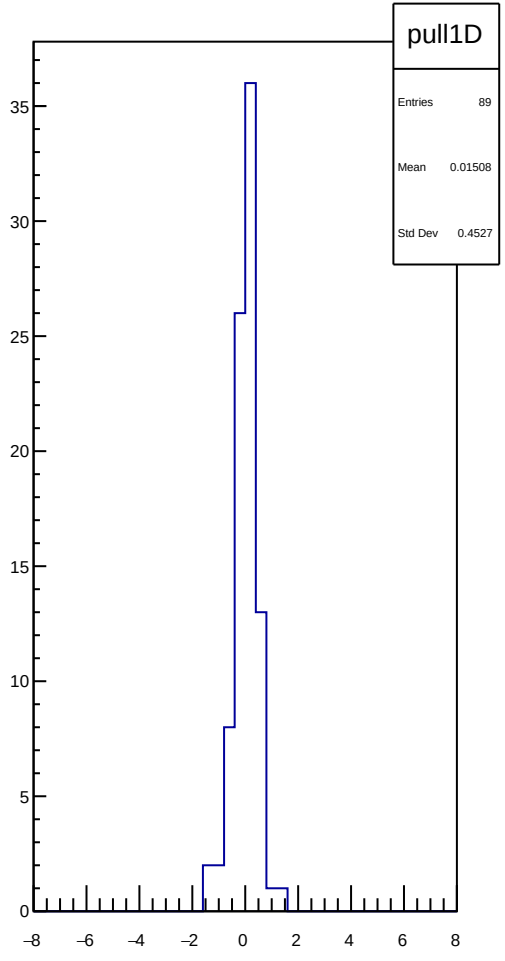

asym_bcm_an_ds_rms vs run
χ² / ndf 3418 / 88
p0 158.6 ± 0.1201
190
185
180
175
170
165
160
155
150
145

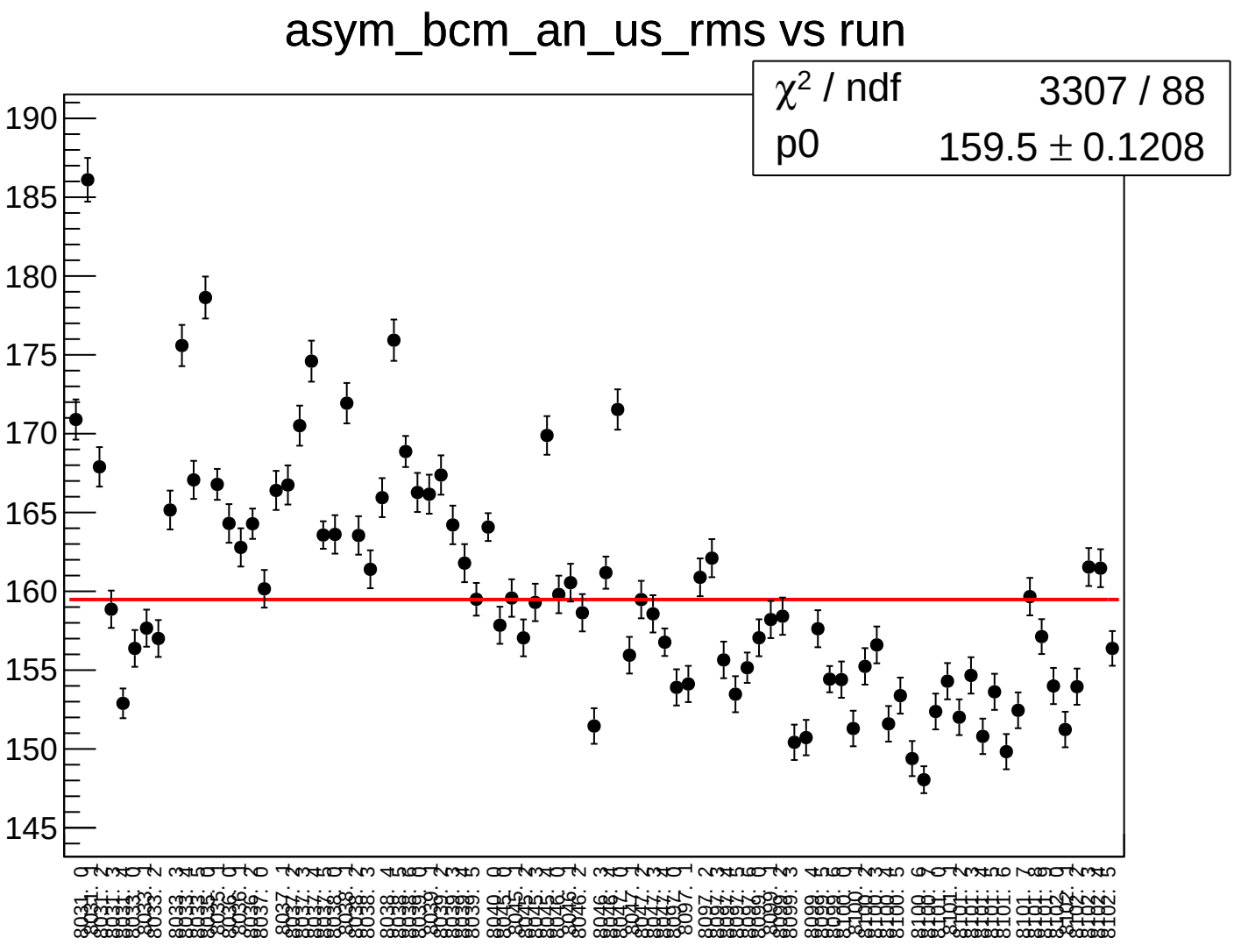

asym_bcm_an_ds3_mean vs run
χ² / ndf 20.75 / 88
p0 −525.1 ± 170.6
pull
Entries 89
Mean 135.7
Std Dev 0

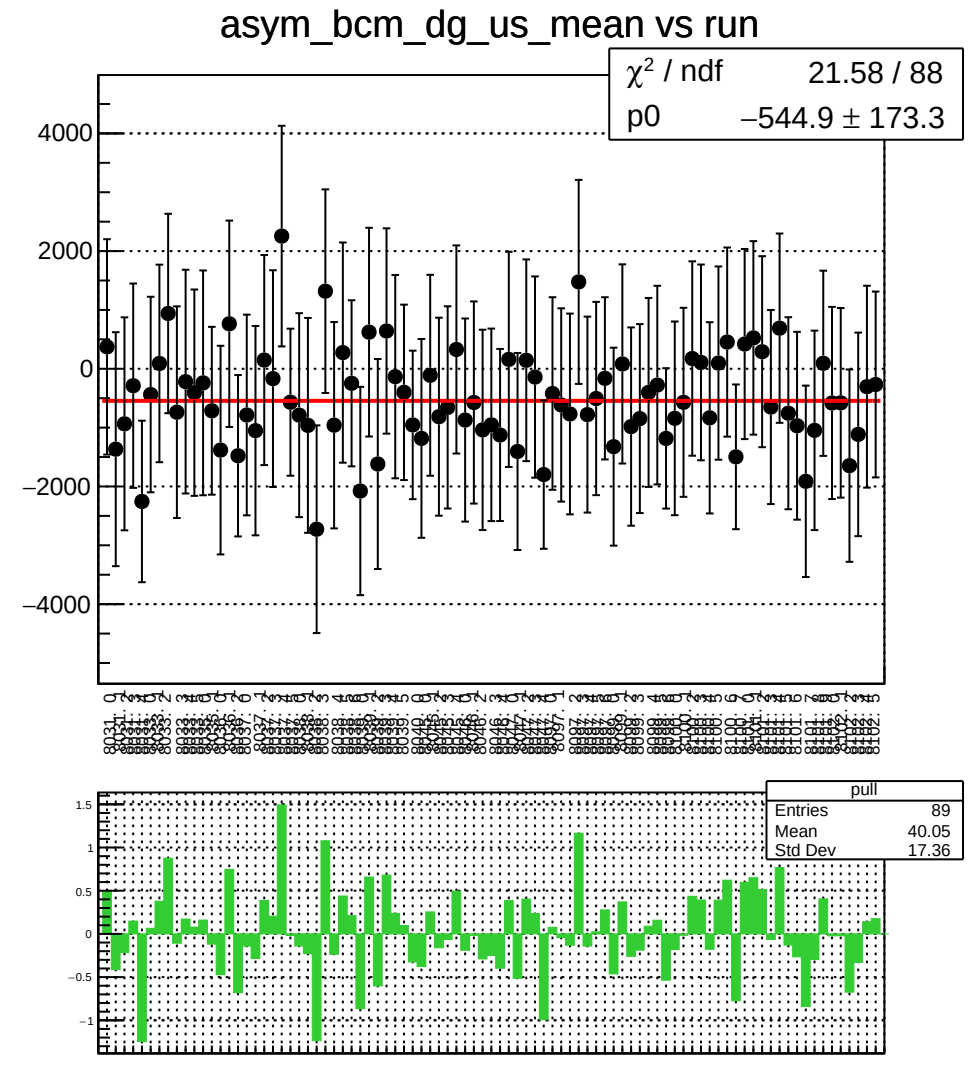

pull1D
Entries 89
Mean 0.01567
Std Dev 0.4826

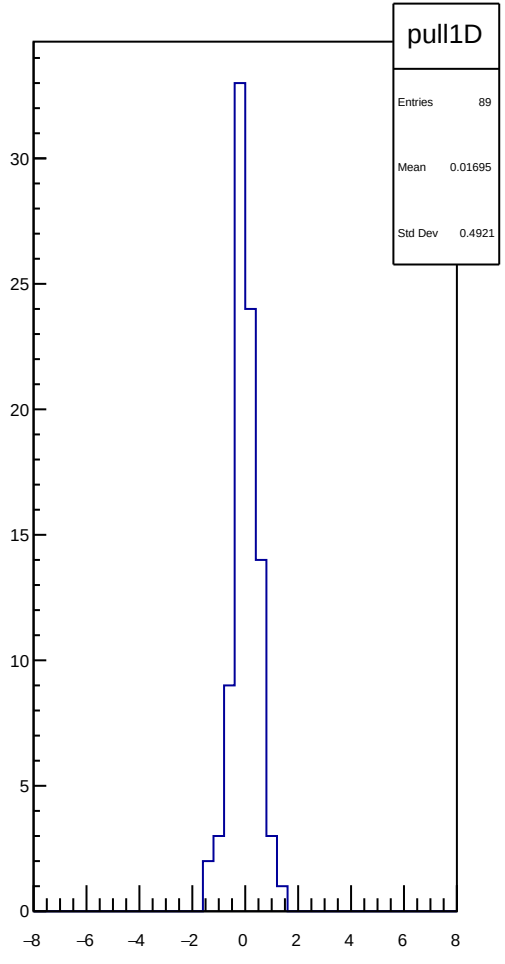

asym_bcm_an_ds3_rms vs run
χ² / ndf 3445 / 88
p0 159.3 ± 0.1206
190
185
180
175
170
165
160
155
150
145

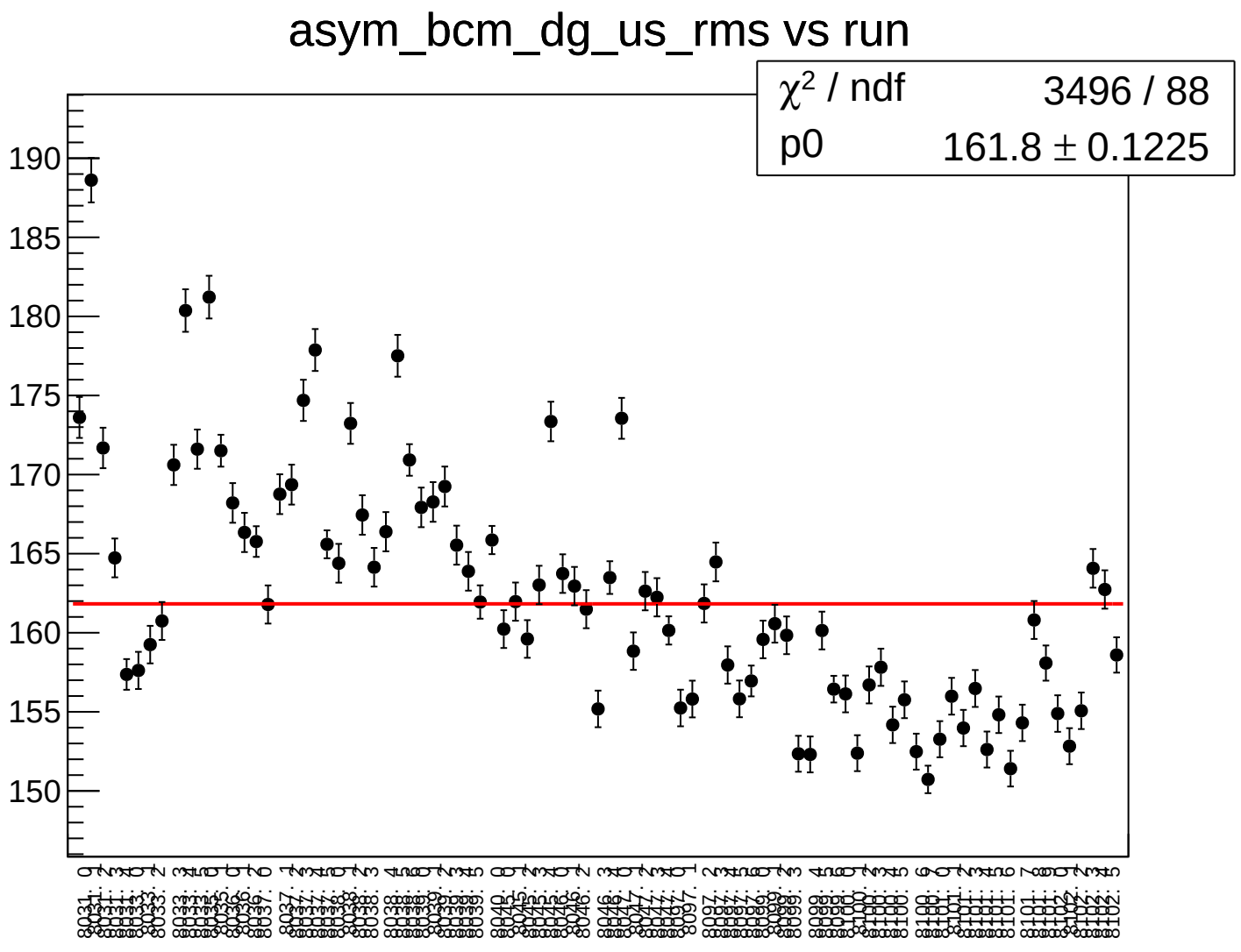

asym_bcm_an_us_mean vs run
χ² / ndf 18.26 / 88
p0 −526 ± 170.8
pull
Entries 89
Mean 115
Std Dev 0

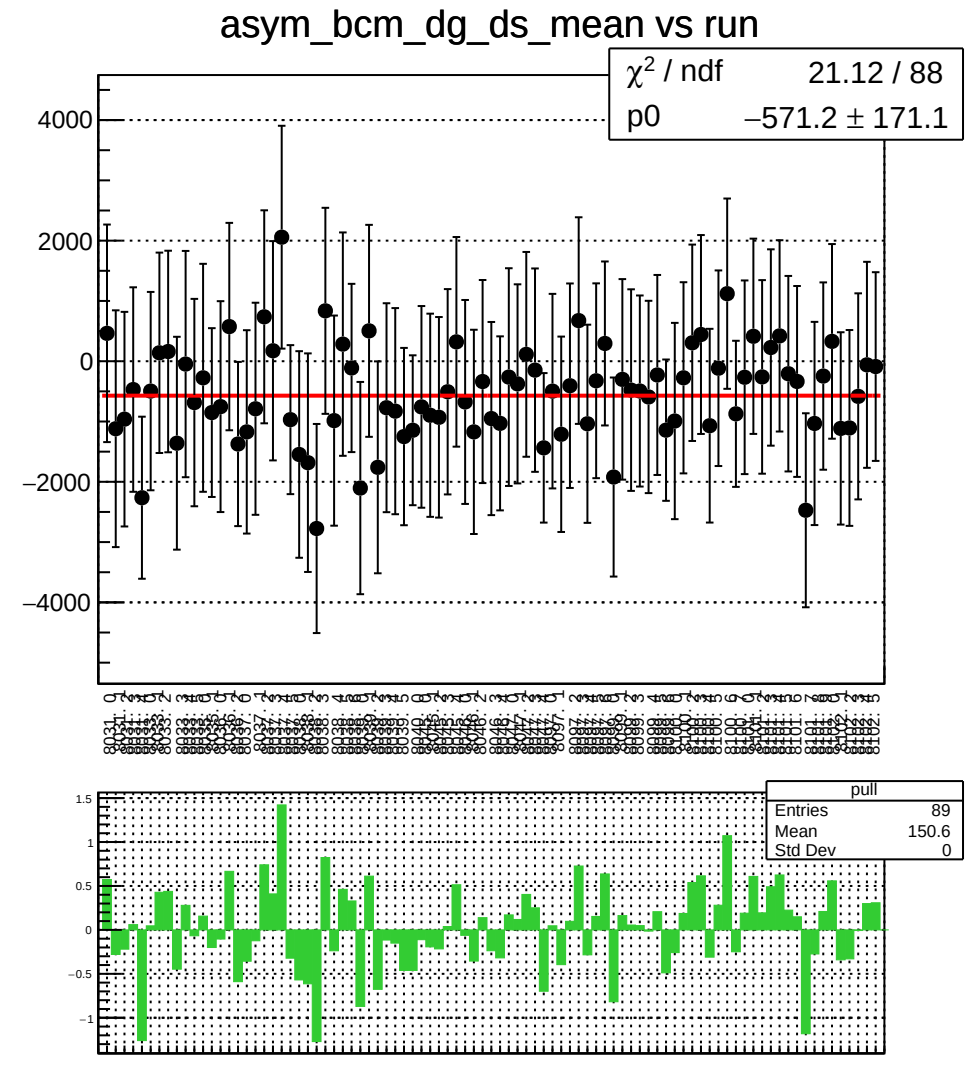

pull1D
Entries 89
Mean 0.01508
Std Dev 0.4527

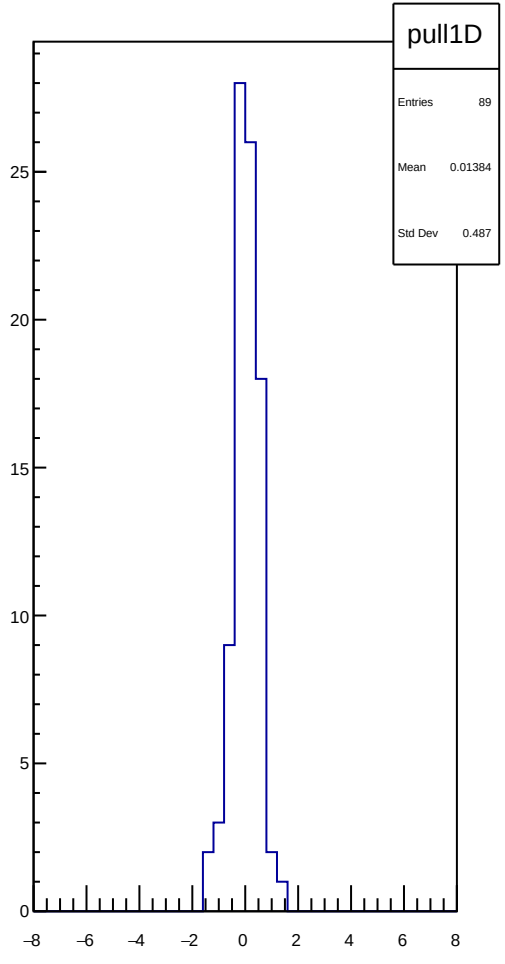

asym_bcm_an_us_rms vs run
χ² / ndf 3307 / 88
p0 159.5 ± 0.1208
190
185
180
175
170
165
160
155
150
145

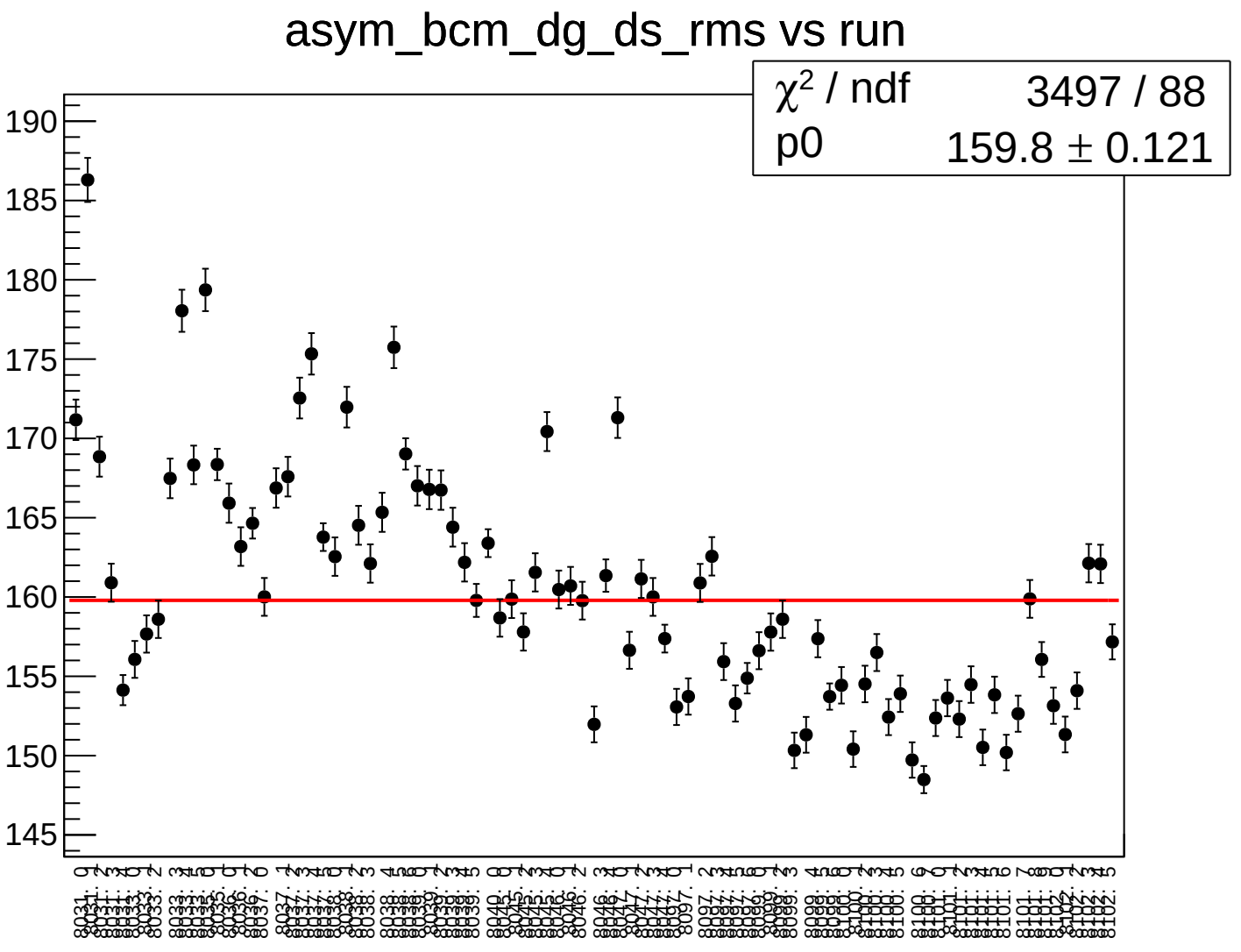

asym_bcm_dg_us_mean vs run
χ² / ndf 21.58 / 88
p0 −544.9 ± 173.3
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 40.05
Std Dev 17.36
1.5
1
0.5
0
−0.5
−1

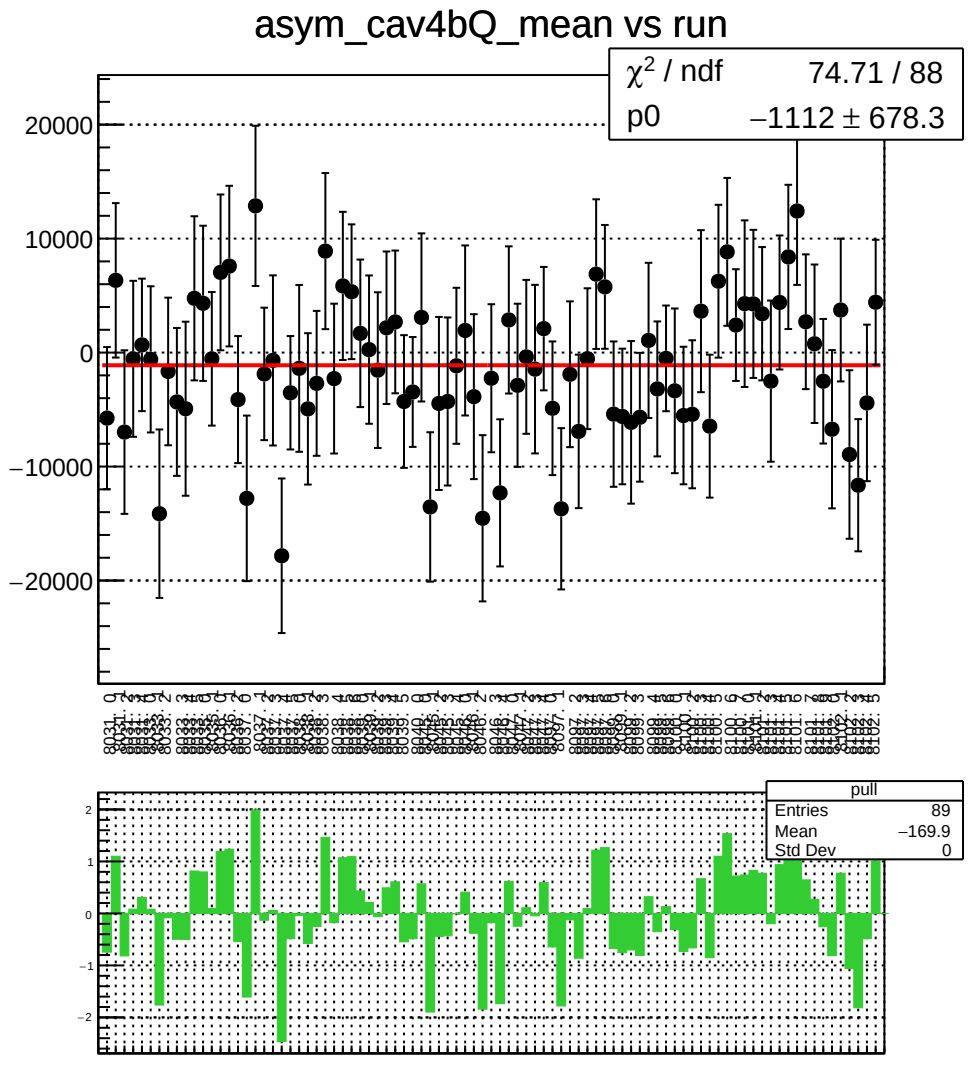

pull1D
Entries 89
Mean 0.01695
Std Dev 0.4921
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

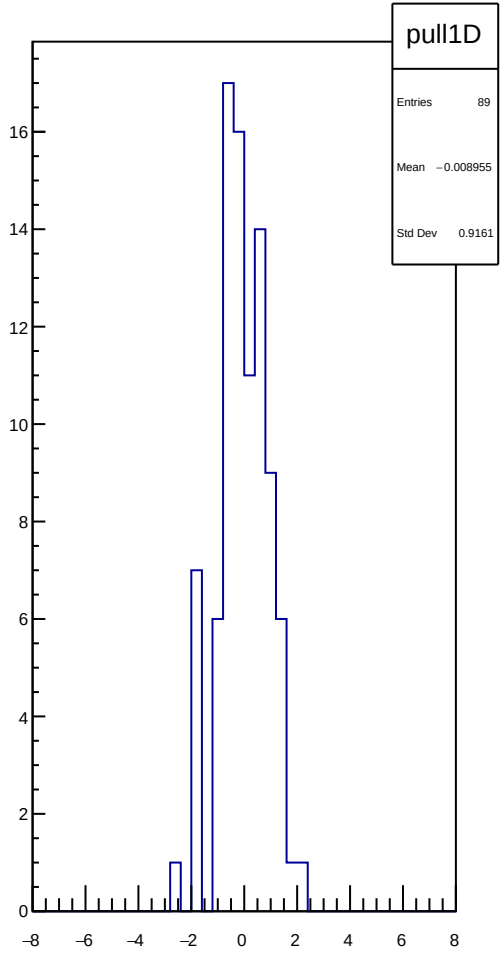

asym_bcm_dg_us_rms vs run
χ² / ndf 3496 / 88
p0 161.8 ± 0.1225
190
185
180
175
170
165
160
155
150

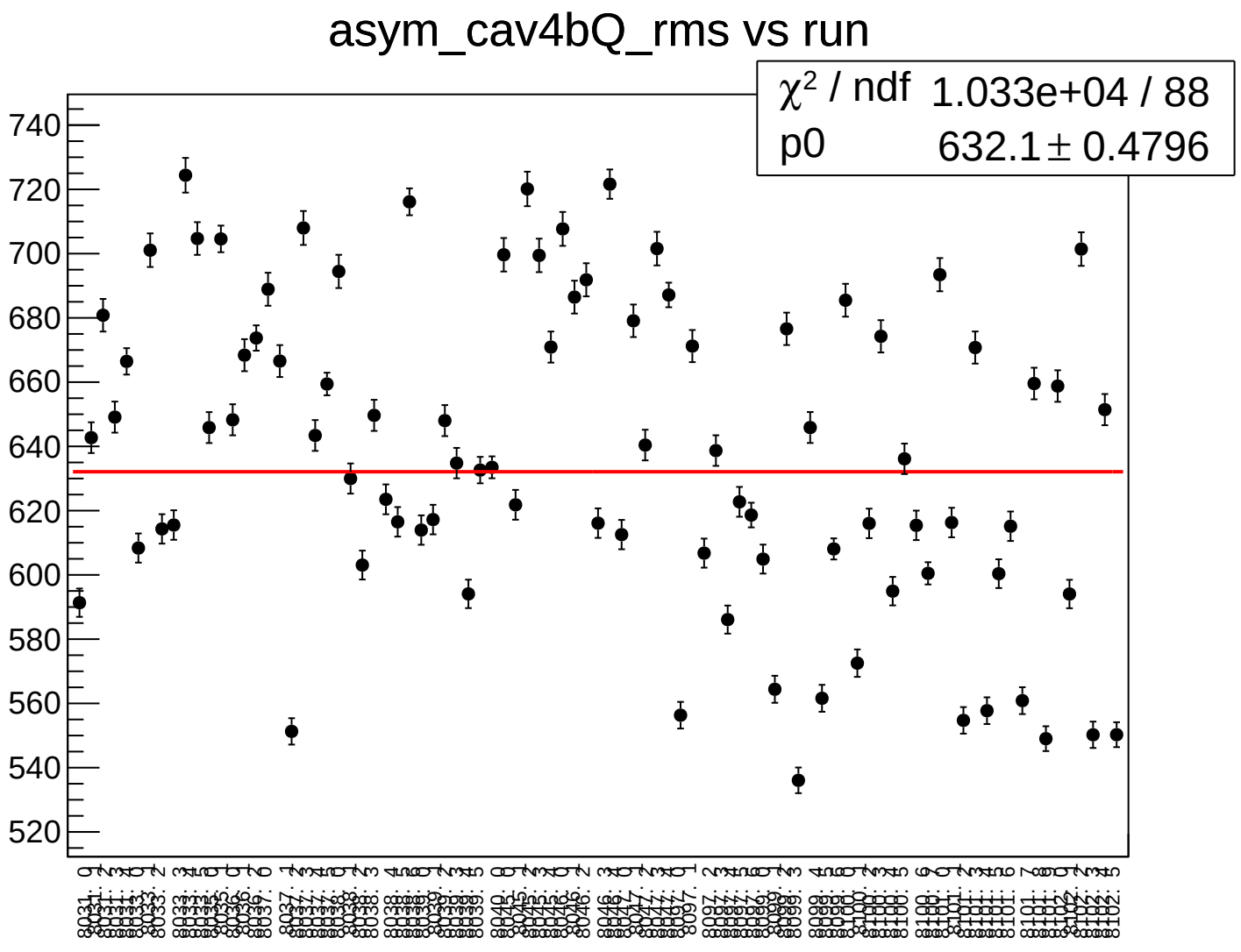

asym_bcm_dg_ds_mean vs run
χ² / ndf 21.12 / 88
p0 −571.2 ± 171.1
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 150.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1

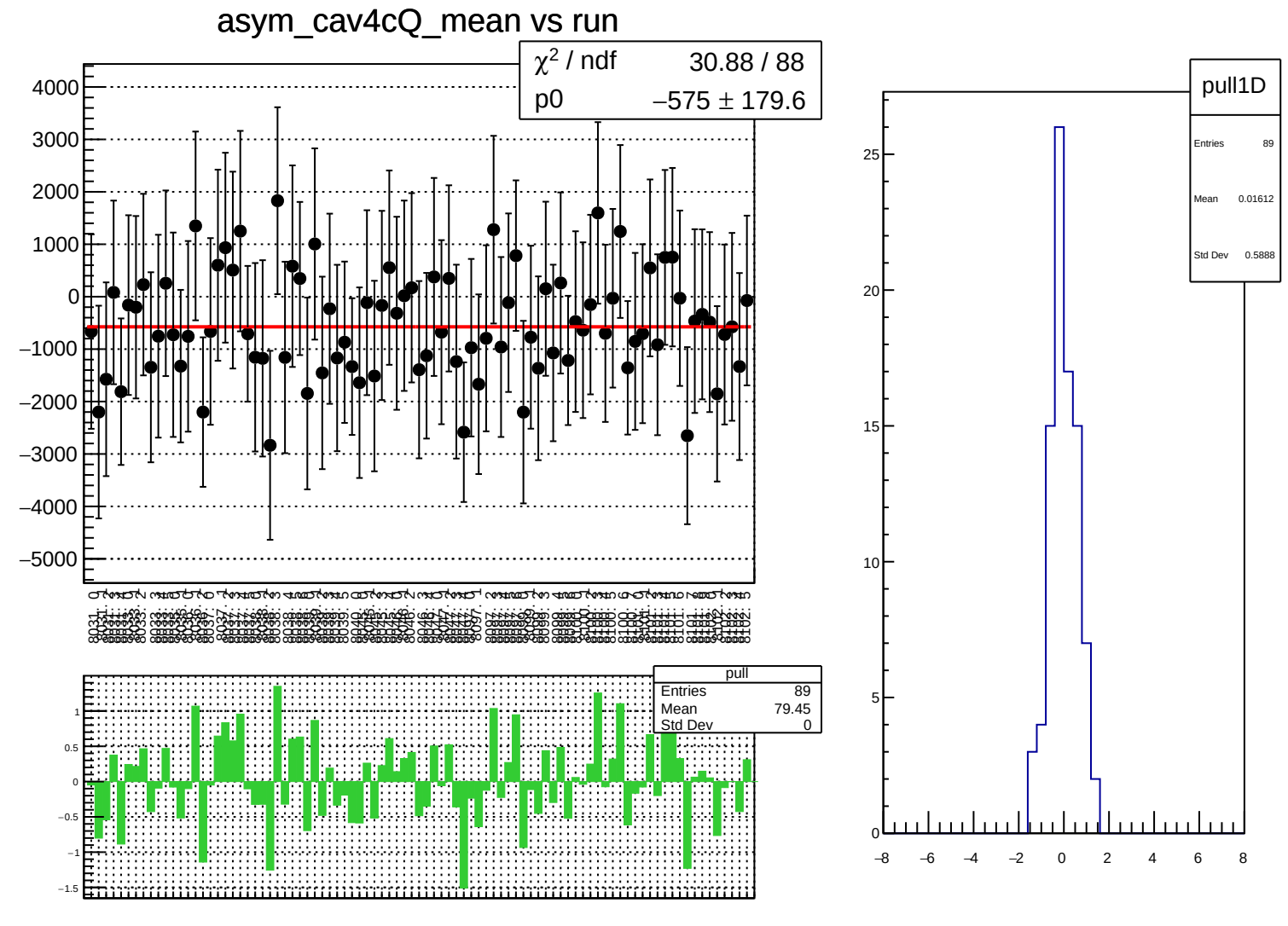

pull1D
Entries 89
Mean 0.01384
Std Dev 0.487
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

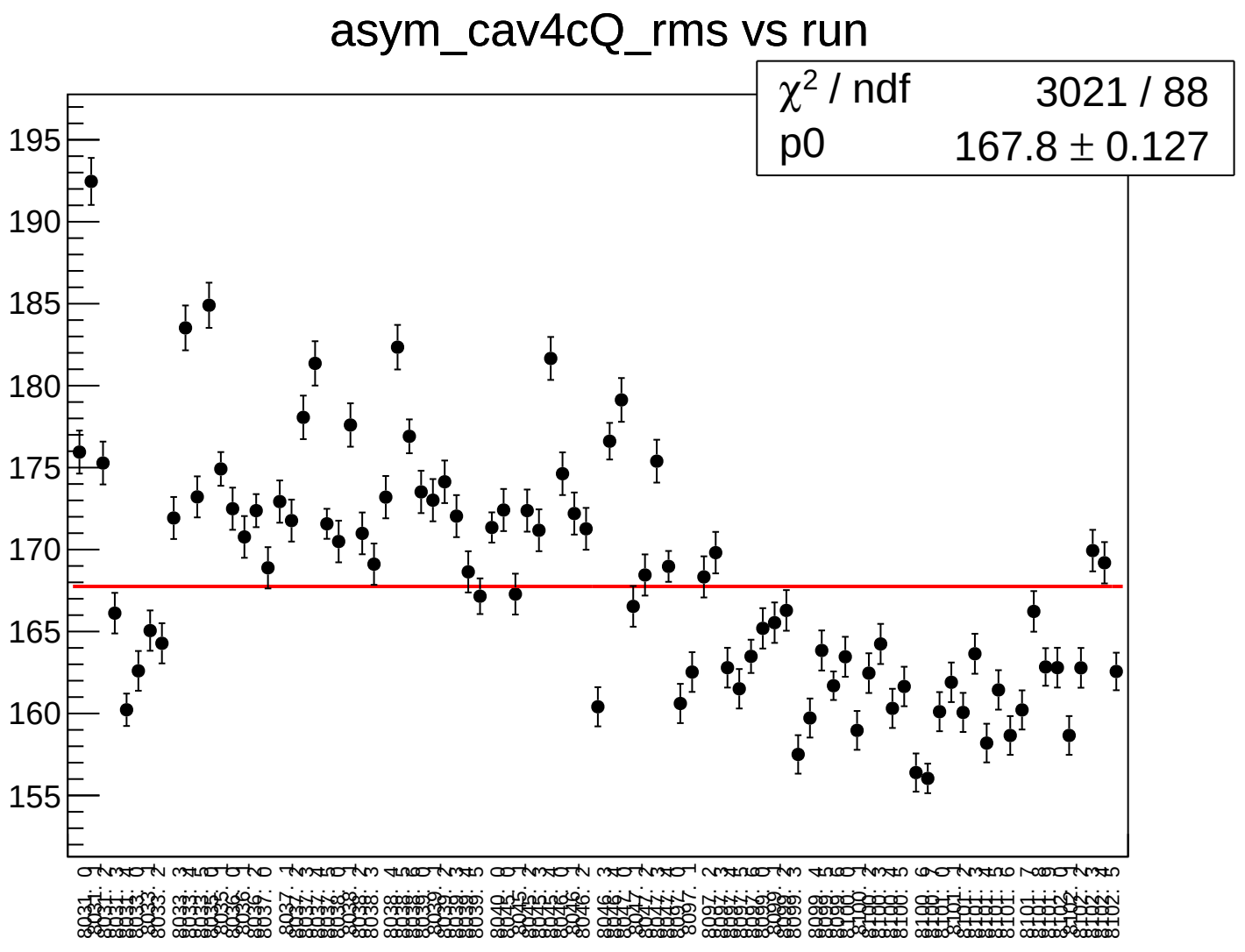

asym_bcm_dg_ds_rms vs run
χ² / ndf 3497 / 88
p0 159.8 ± 0.121
190
185
180
175
170
165
160
155
150
145

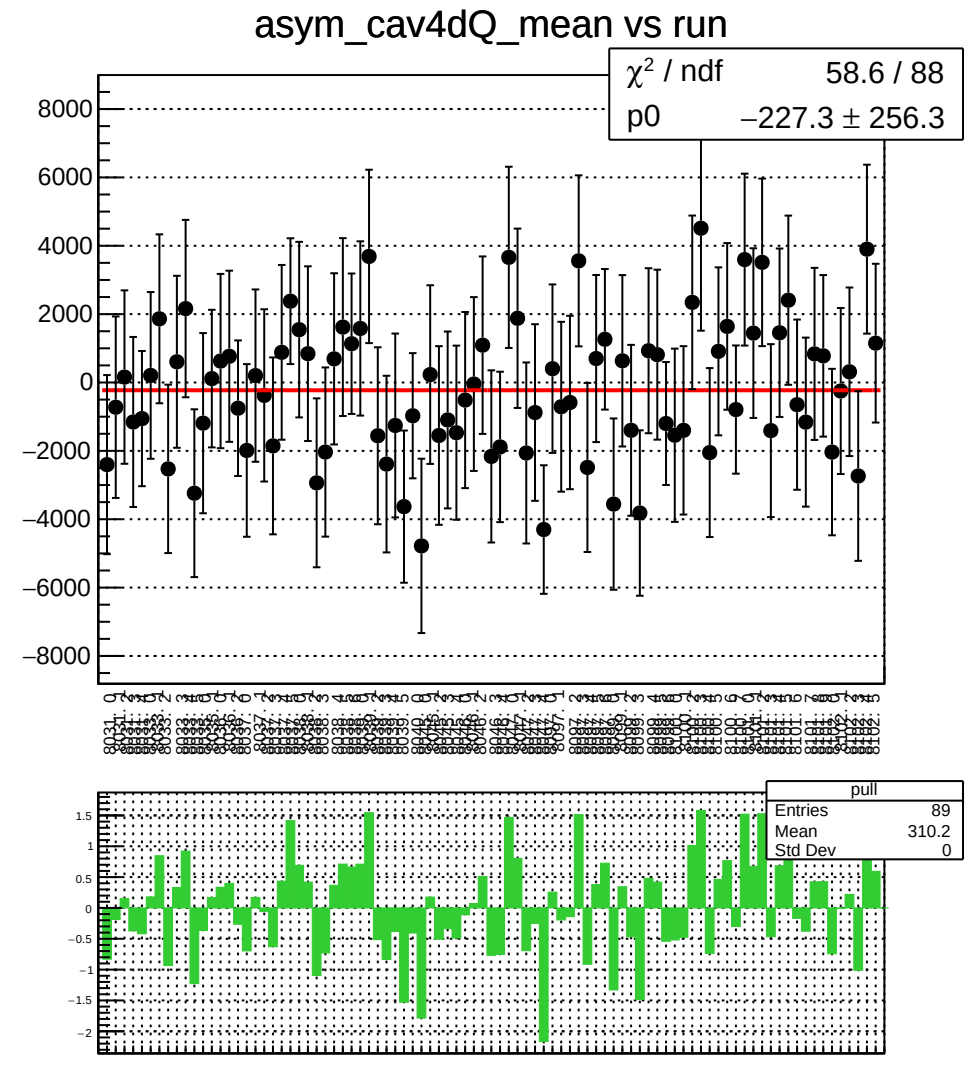

asym_cav4bQ_mean vs run
$\chi^2$ / ndf 74.71 / 88
p0 −1112 ± 678.3
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −169.9
Std Dev 0
2
1
0
−1
−2

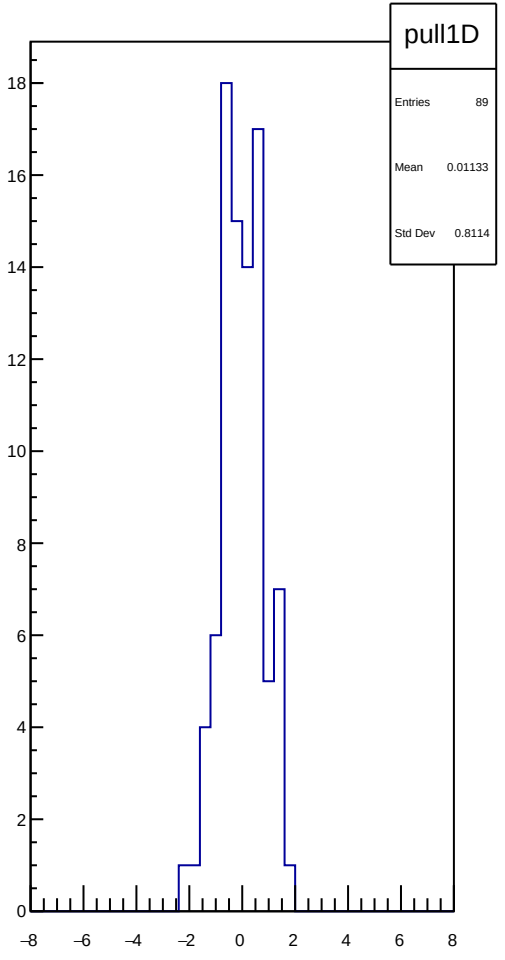

pull1D
Entries 89
Mean −0.008955
Std Dev 0.9161
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

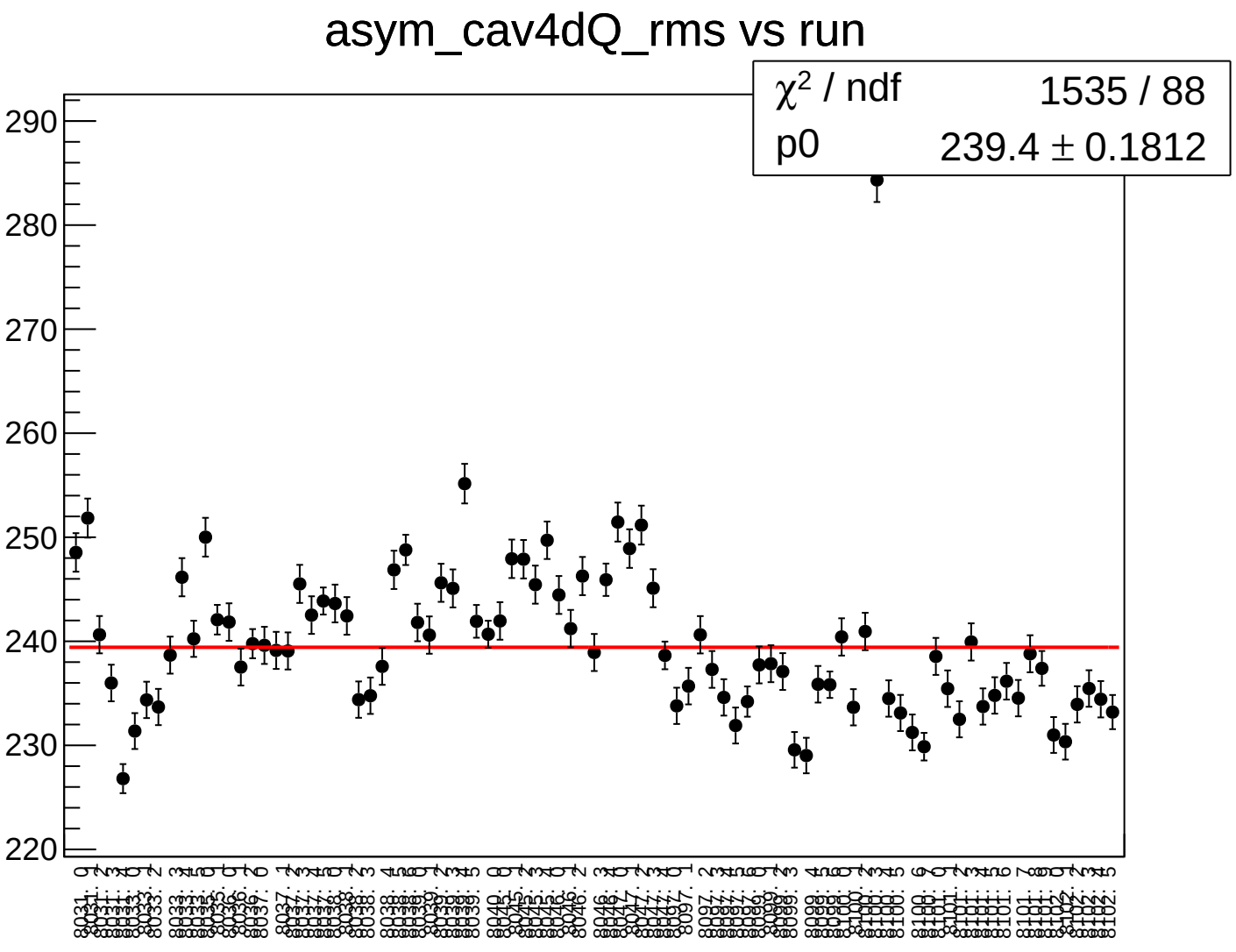

asym_cav4bQ_rms vs run
χ² / ndf 1.033e+04 / 88
p0 632.1 ± 0.4796
740
720
700
680
660
640
620
600
580
560
540
520

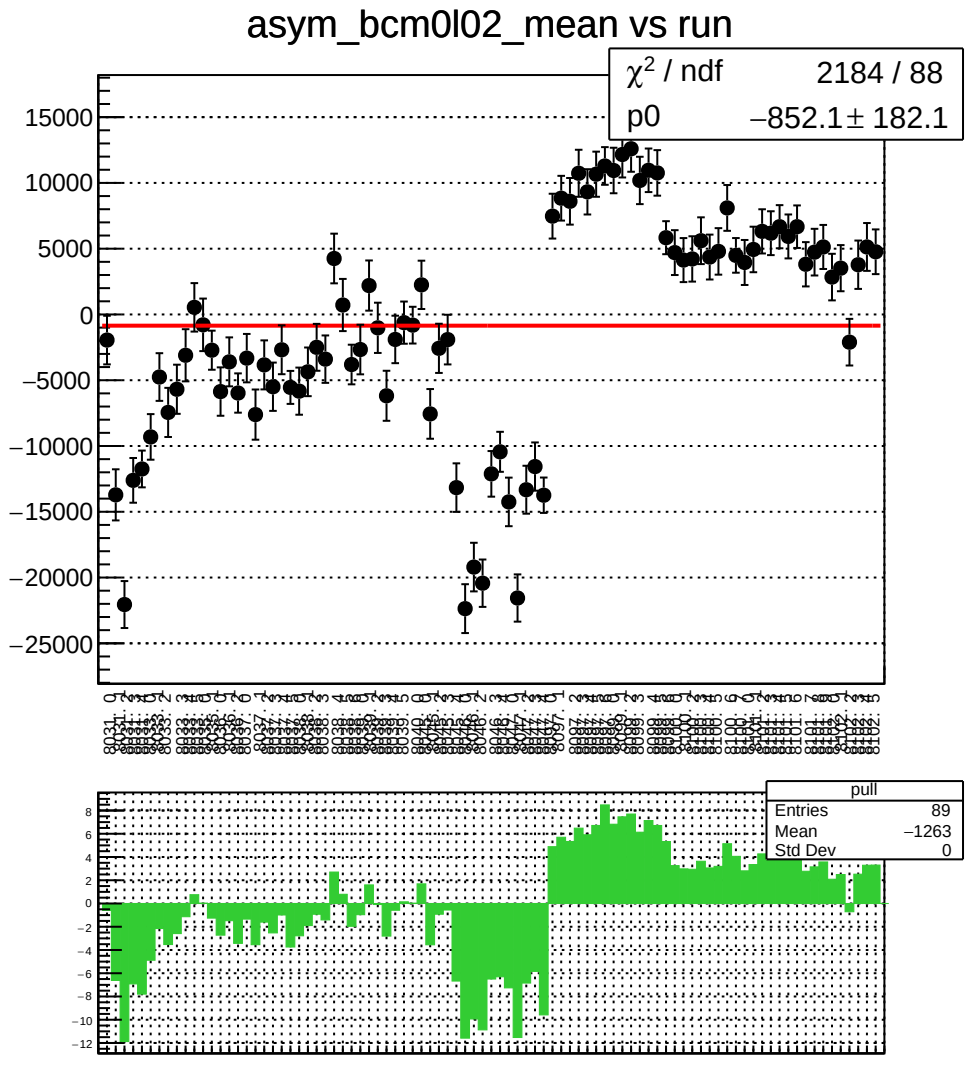

asym_cav4cQ_mean vs run
χ² / ndf 30.88 / 88
p0 −575 ± 179.6
pull
Entries 89
Mean 79.45
Std Dev 0
pull1D
Entries 89
Mean 0.01612
Std Dev 0.5888

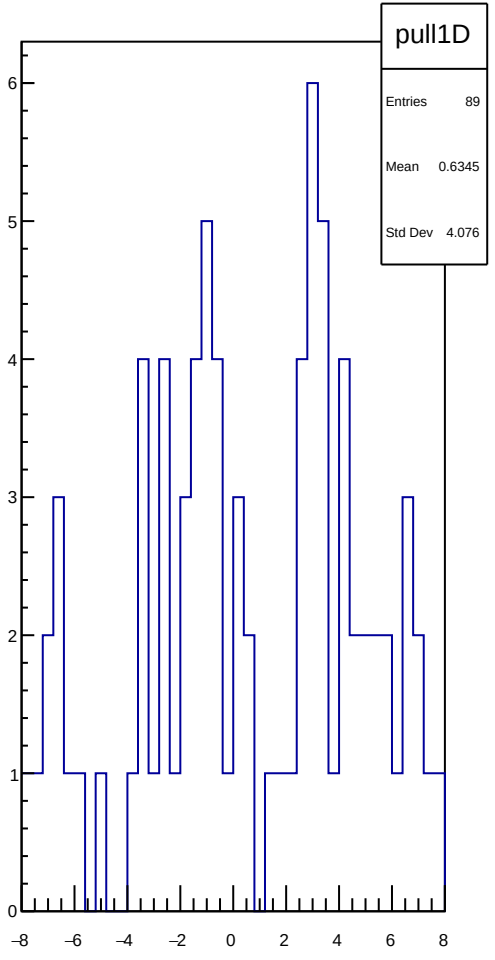

asym_cav4cQ_rms vs run
χ² / ndf 3021 / 88
p0 167.8 ± 0.127
195
190
185
180
175
170
165
160
155

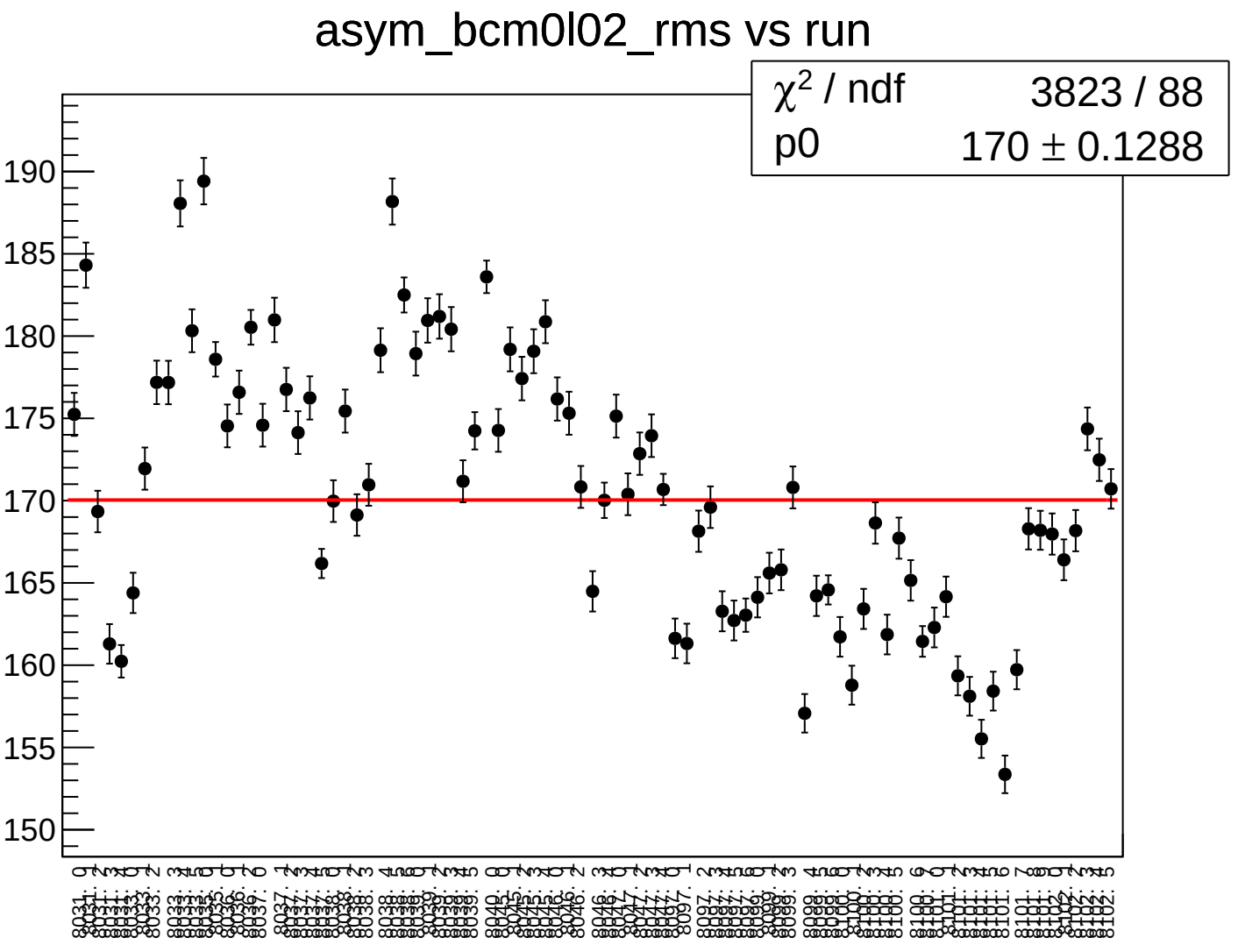

asym_cav4dQ_mean vs run
χ² / ndf 58.6 / 88
p0 −227.3 ± 256.3
pull
Entries 89
Mean 310.2
Std Dev 0

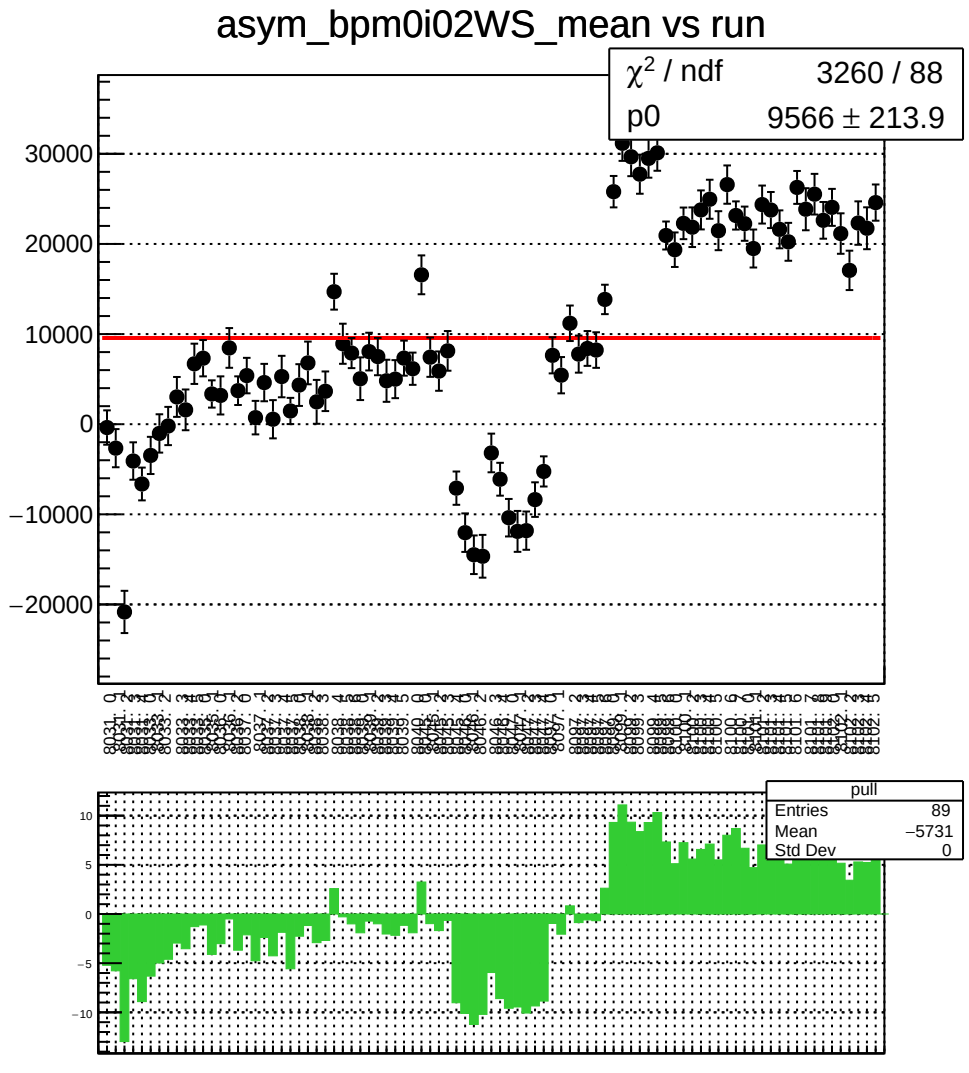

pull1D
Entries 89
Mean 0.01133
Std Dev 0.8114

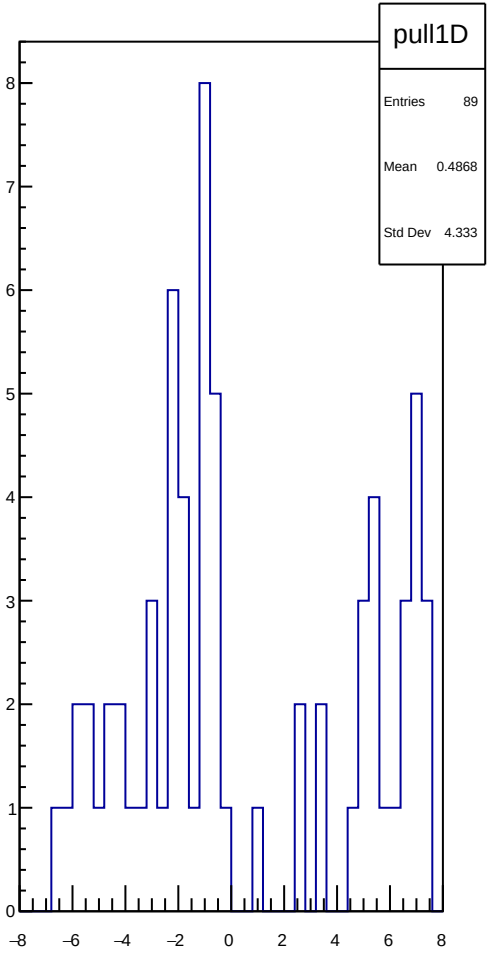

asym_cav4dQ_rms vs run
$\chi^2$ / ndf 1535 / 88
p0 239.4 ± 0.1812
290
280
270
260
250
240
230
220

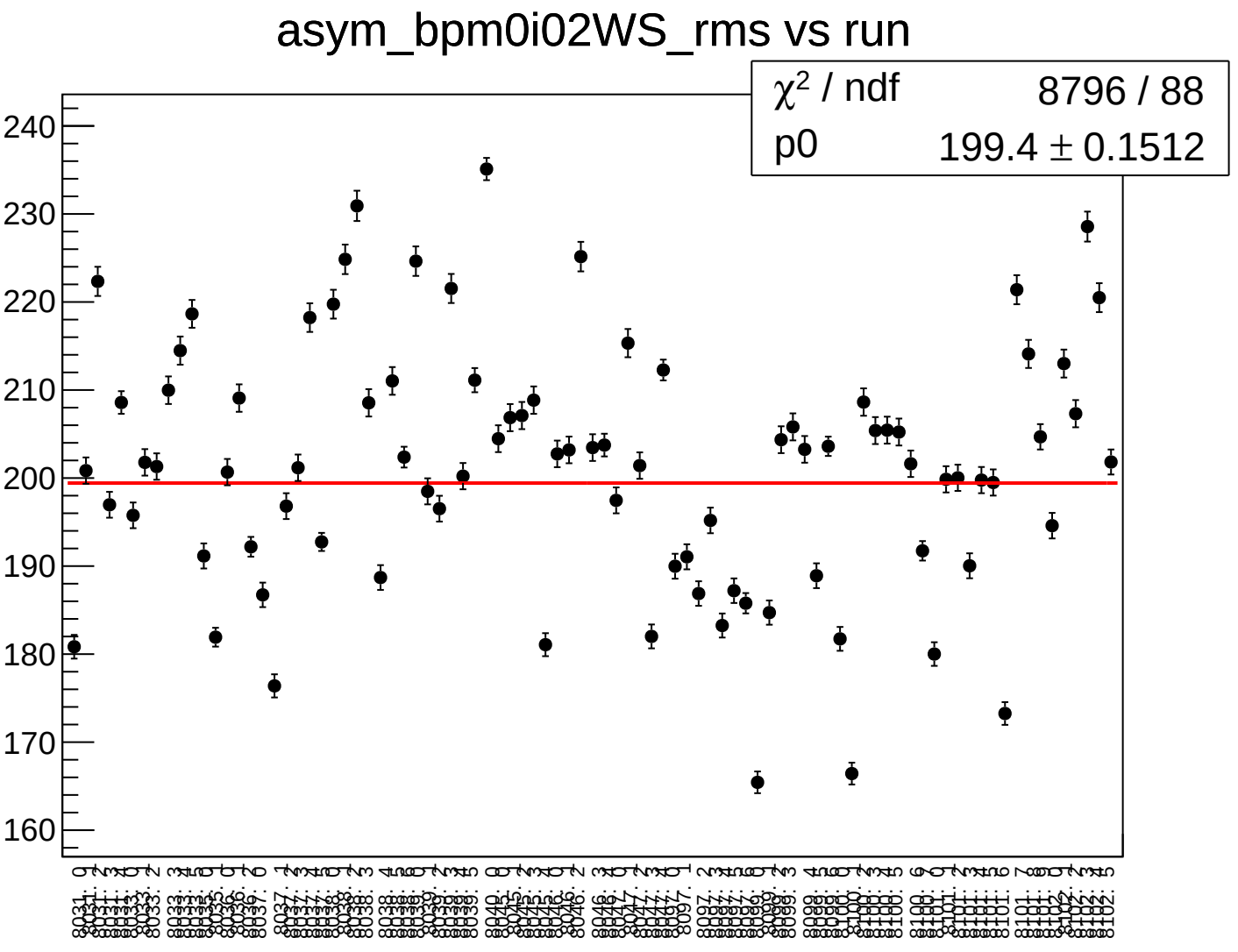

asym_bcm0l02_mean vs run
χ² / ndf 2184 / 88
p0 −852.1 ± 182.1
pull
Entries 89
Mean −1263
Std Dev 0

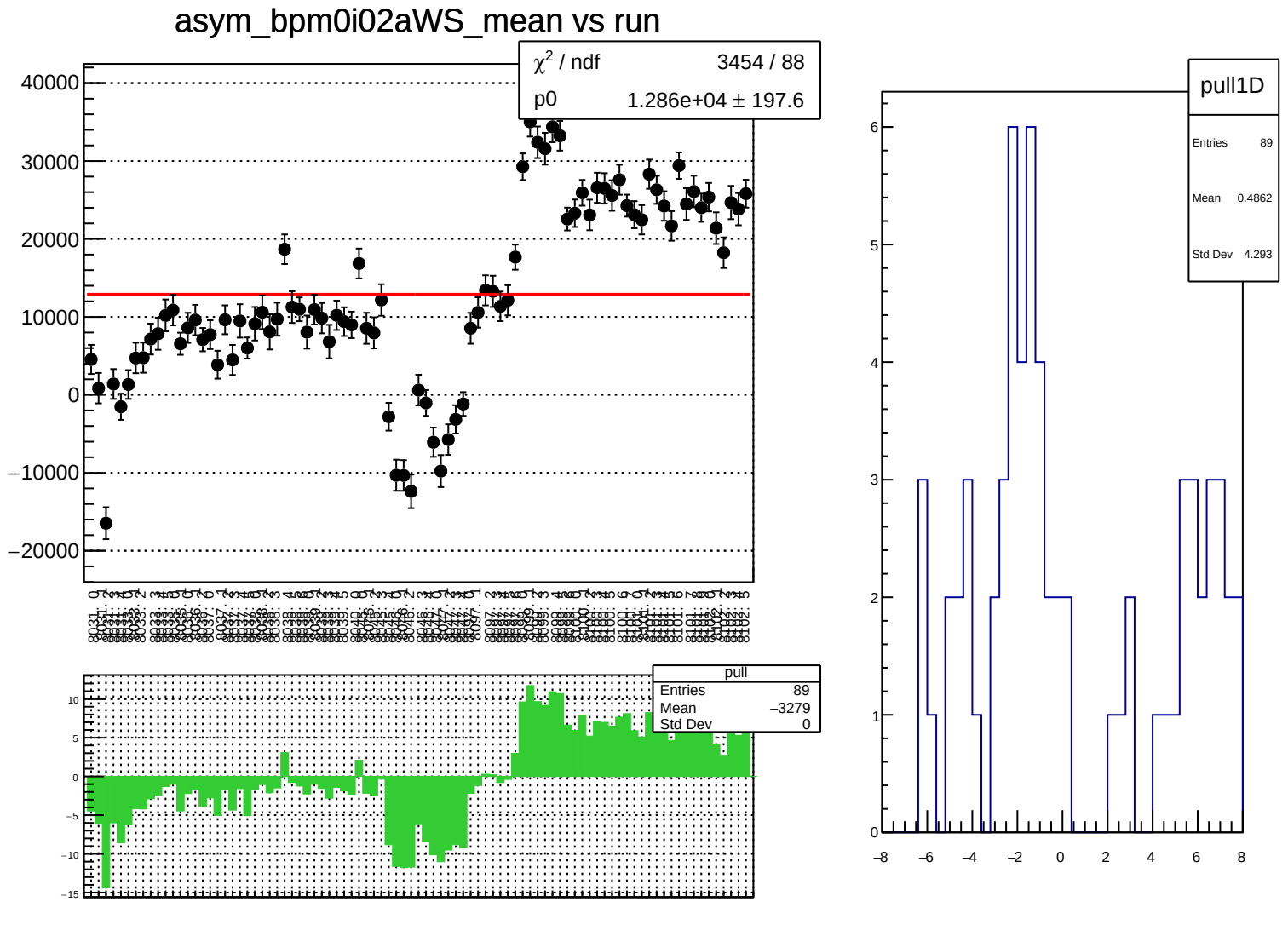

pull1D
Entries 89
Mean 0.6345
Std Dev 4.076

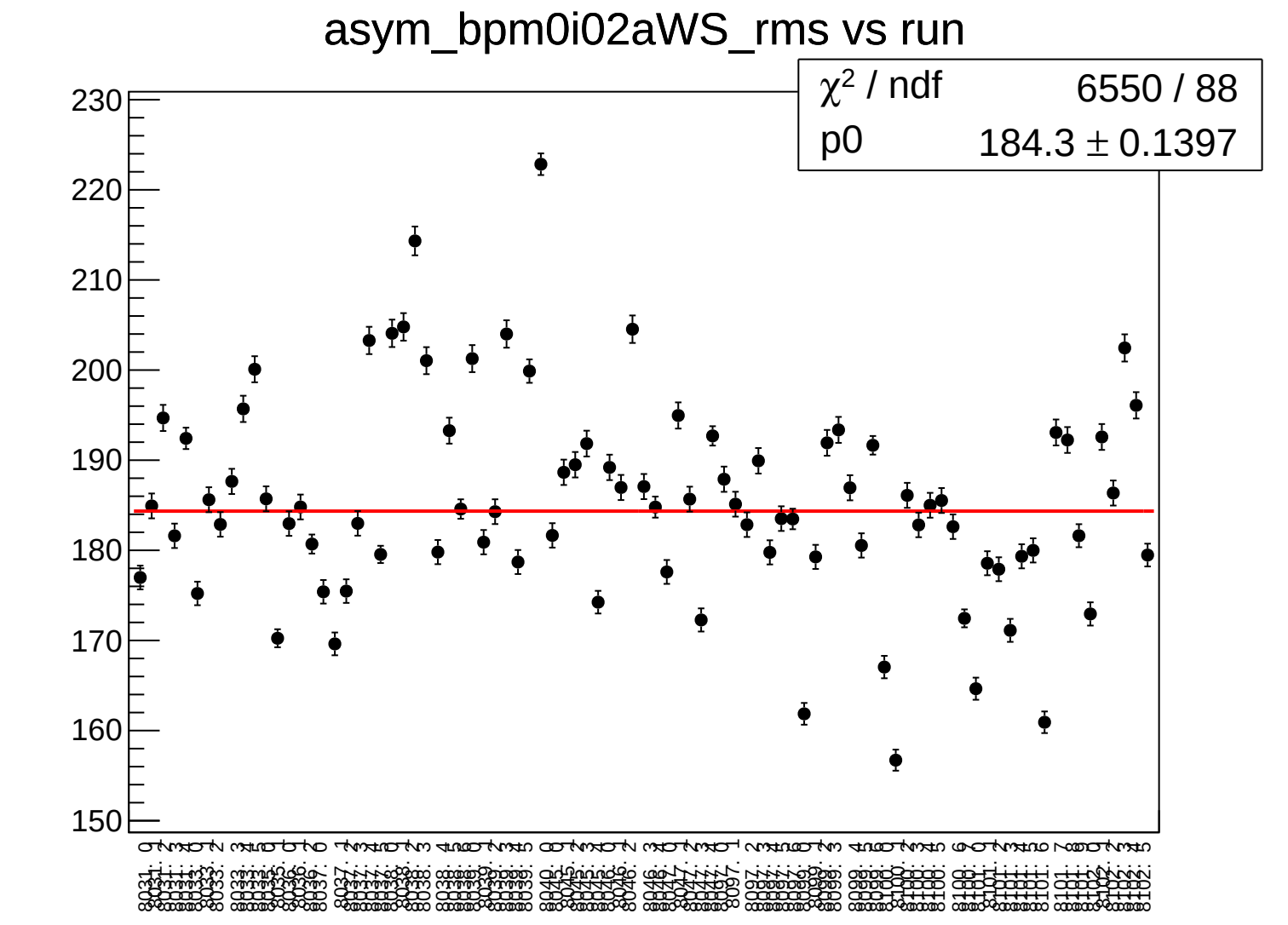

asym_bcm0l02_rms vs run
χ² / ndf 3823 / 88
p0 170 ± 0.1288
190
185
180
175
170
165
160
155
150

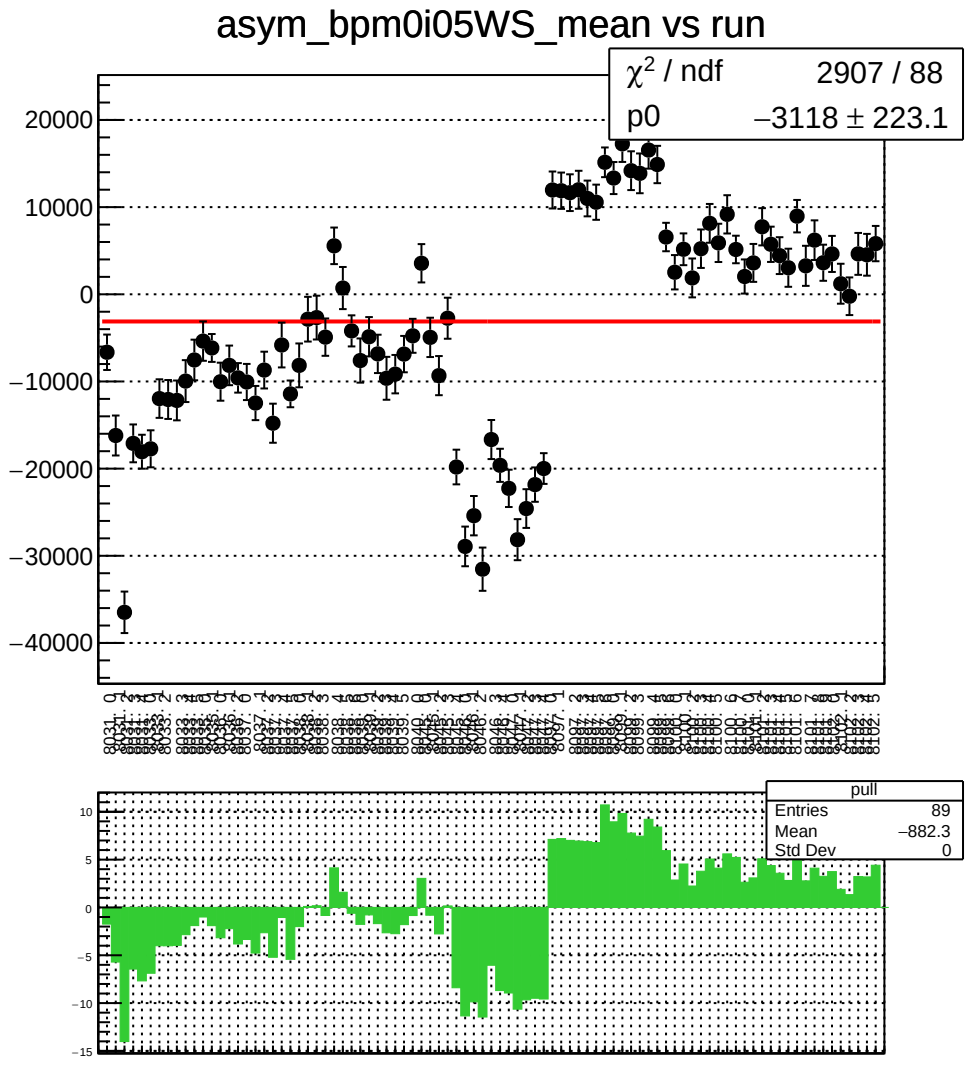

asym_bpm0i02WS_mean vs run
χ² / ndf 3260 / 88
p0 9566 ± 213.9
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −5731
Std Dev 0
10
5
0
−5
−10

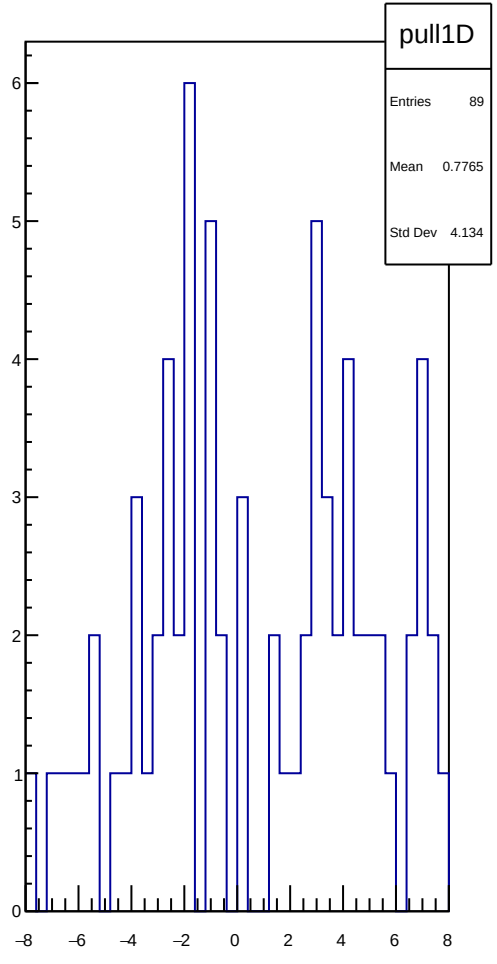

pull1D
Entries 89
Mean 0.4868
Std Dev 4.333
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

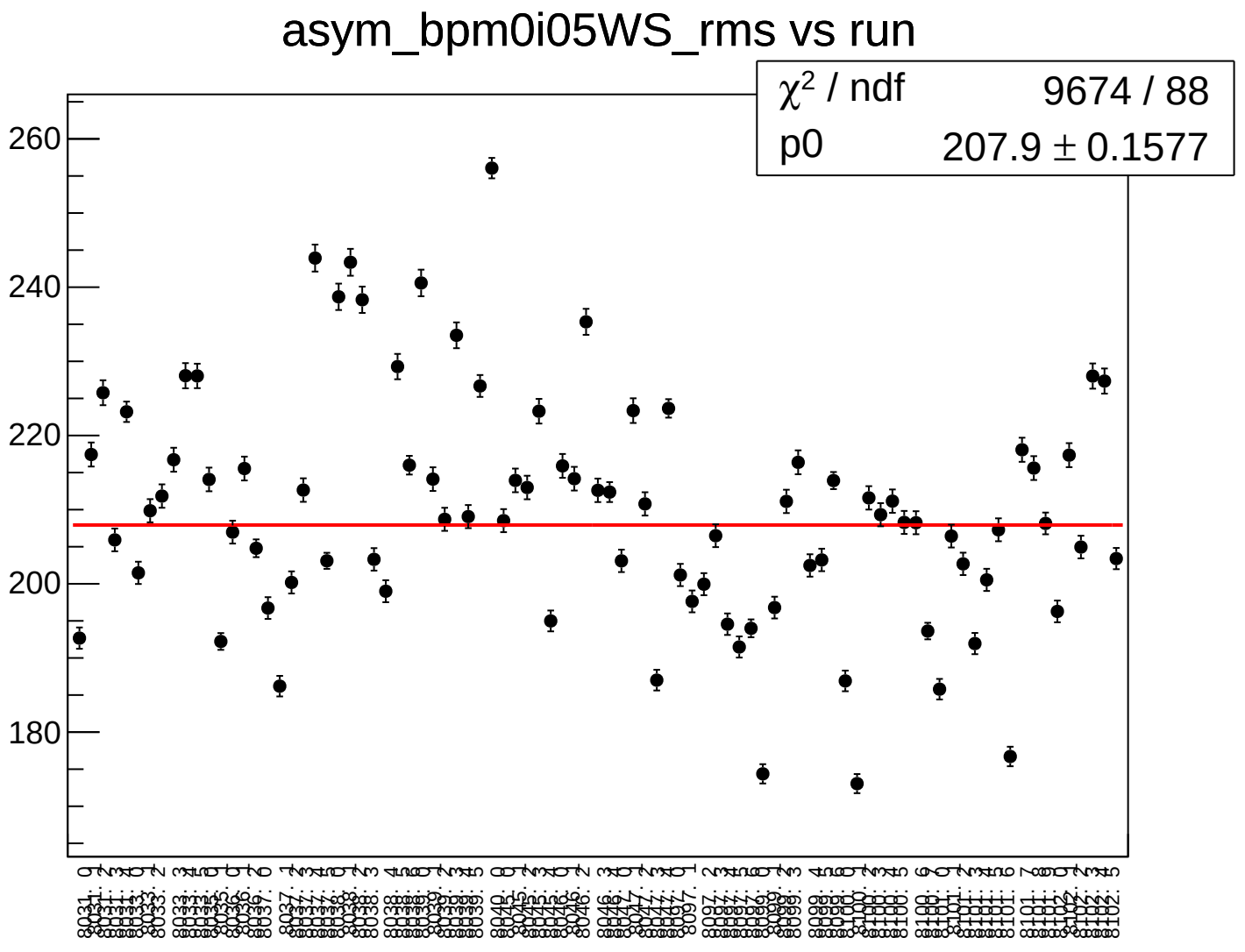

asym_bpm0i02WS_rms vs run
χ² / ndf 8796 / 88
p0 199.4 ± 0.1512
240
230
220
210
200
190
180
170
160

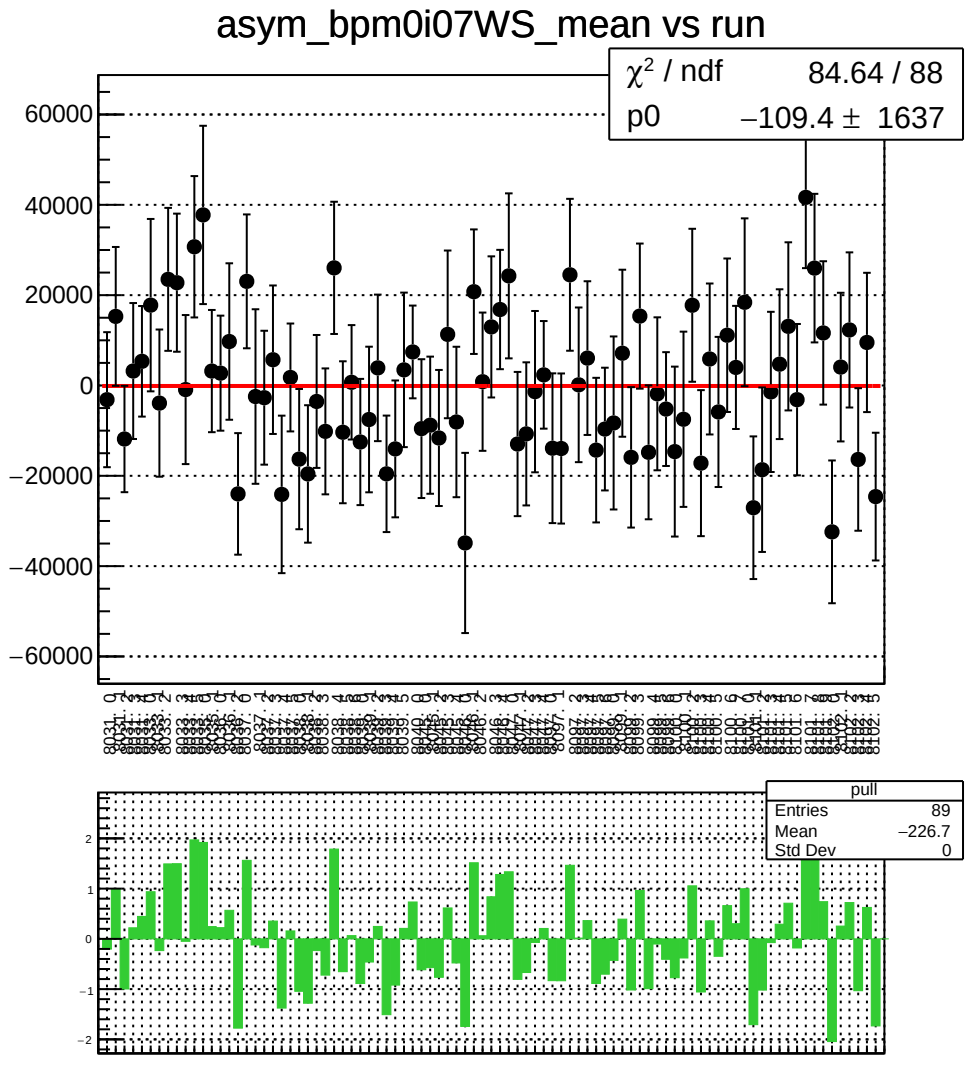

asym_bpm0i02aWS_mean vs run
χ² / ndf 3454 / 88
p0 1.286e+04 ± 197.6
pull
Entries 89
Mean −3279
Std Dev 0
pull1D
Entries 89
Mean 0.4862
Std Dev 4.293

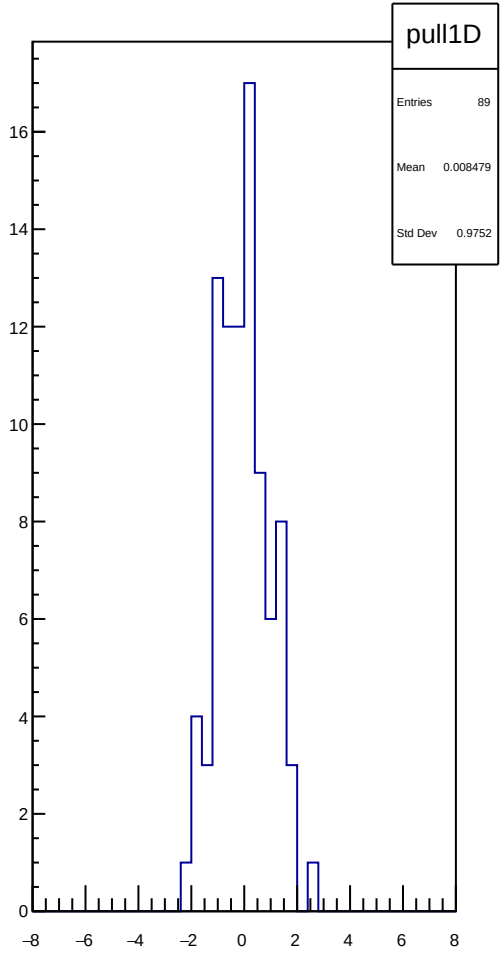

asym_bpm0i02aWS_rms vs run
χ² / ndf 6550 / 88
p0 184.3 ± 0.1397
230
220
210
200
190
180
170
160
150

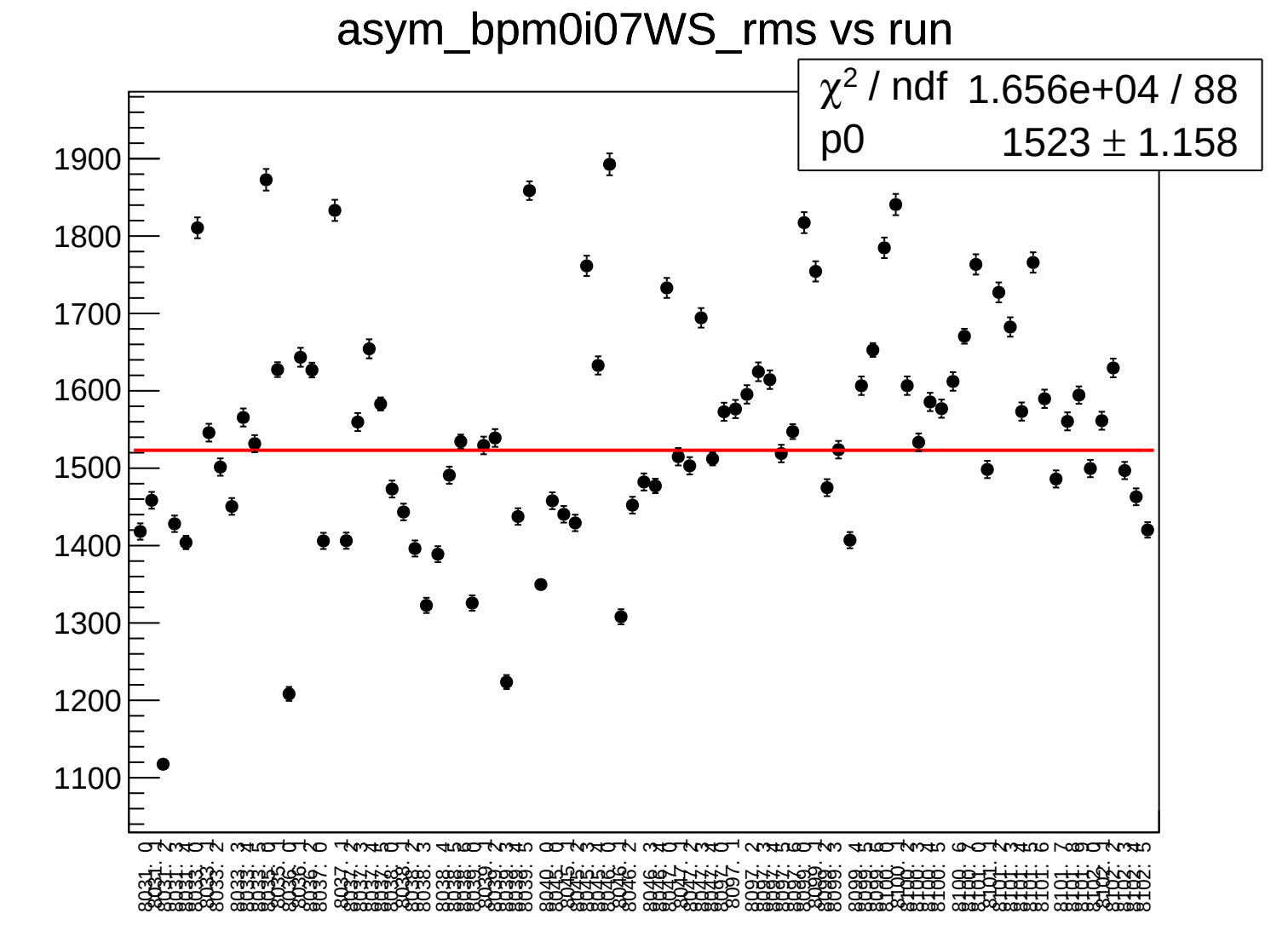

asym_bpm0i05WS_mean vs run
χ² / ndf 2907 / 88
p0 −3118 ± 223.1
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean −882.3
Std Dev 0
10
5
0
−5
−10
−15

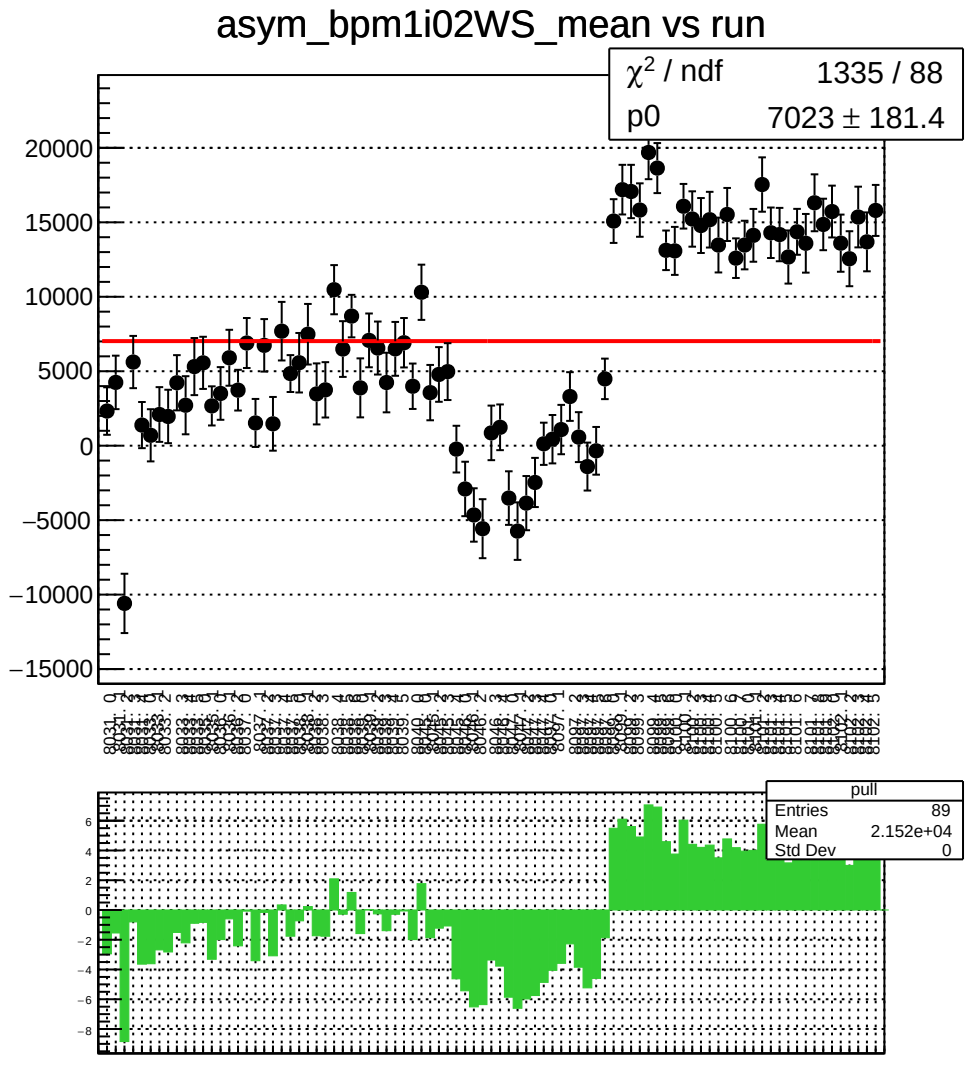

pull1D
Entries 89
Mean 0.7765
Std Dev 4.134
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

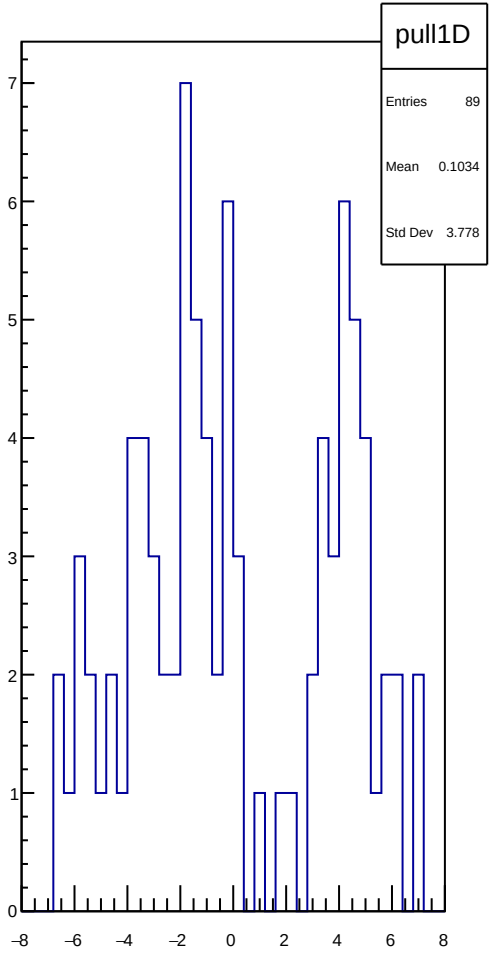

asym_bpm0i05WS_rms vs run
χ² / ndf 9674 / 88
p0 207.9 ± 0.1577
260
240
220
200
180

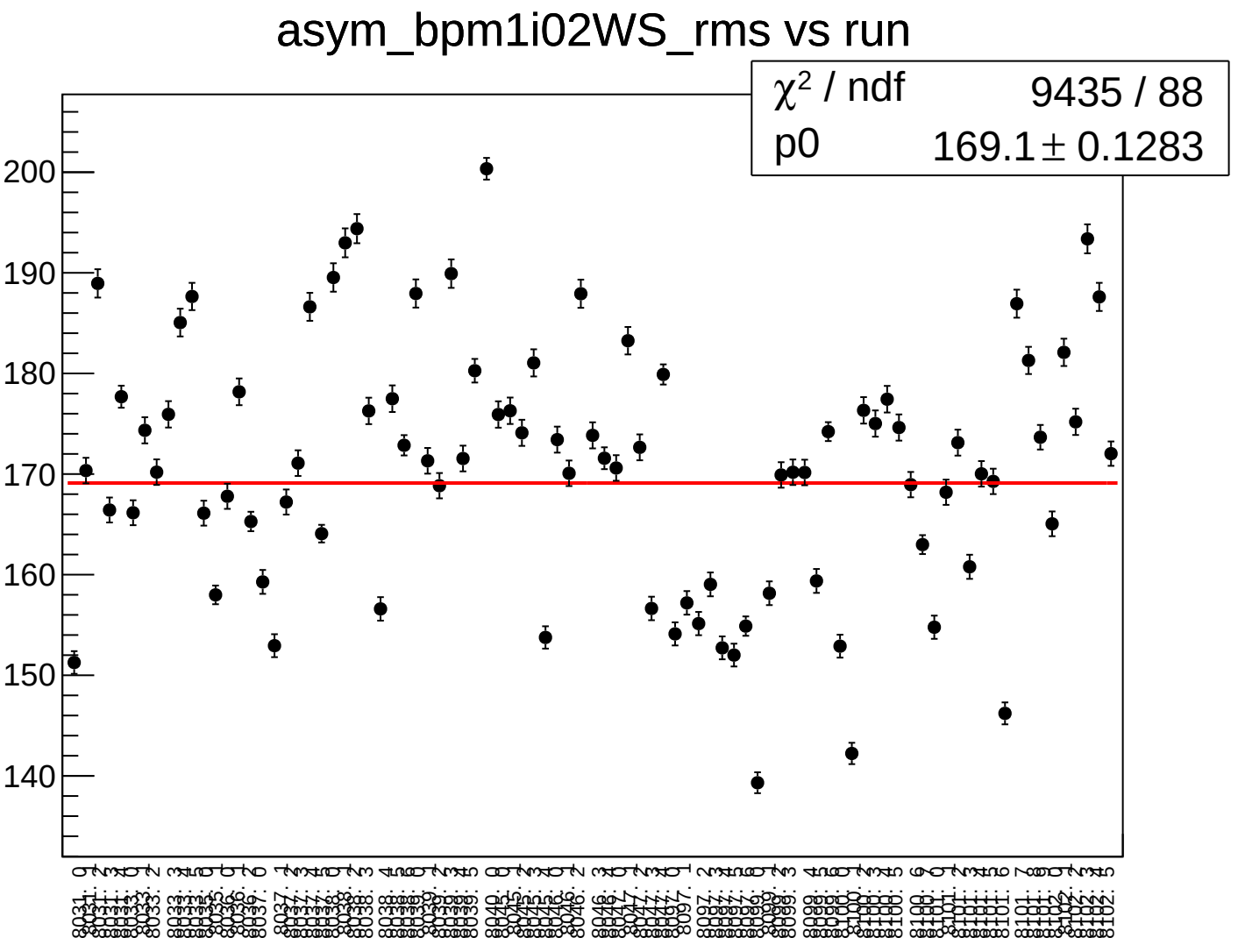

asym_bpm0i07WS_mean vs run
χ² / ndf 84.64 / 88
p0 −109.4 ± 1637
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −226.7
Std Dev 0
2
1
0
−1
−2

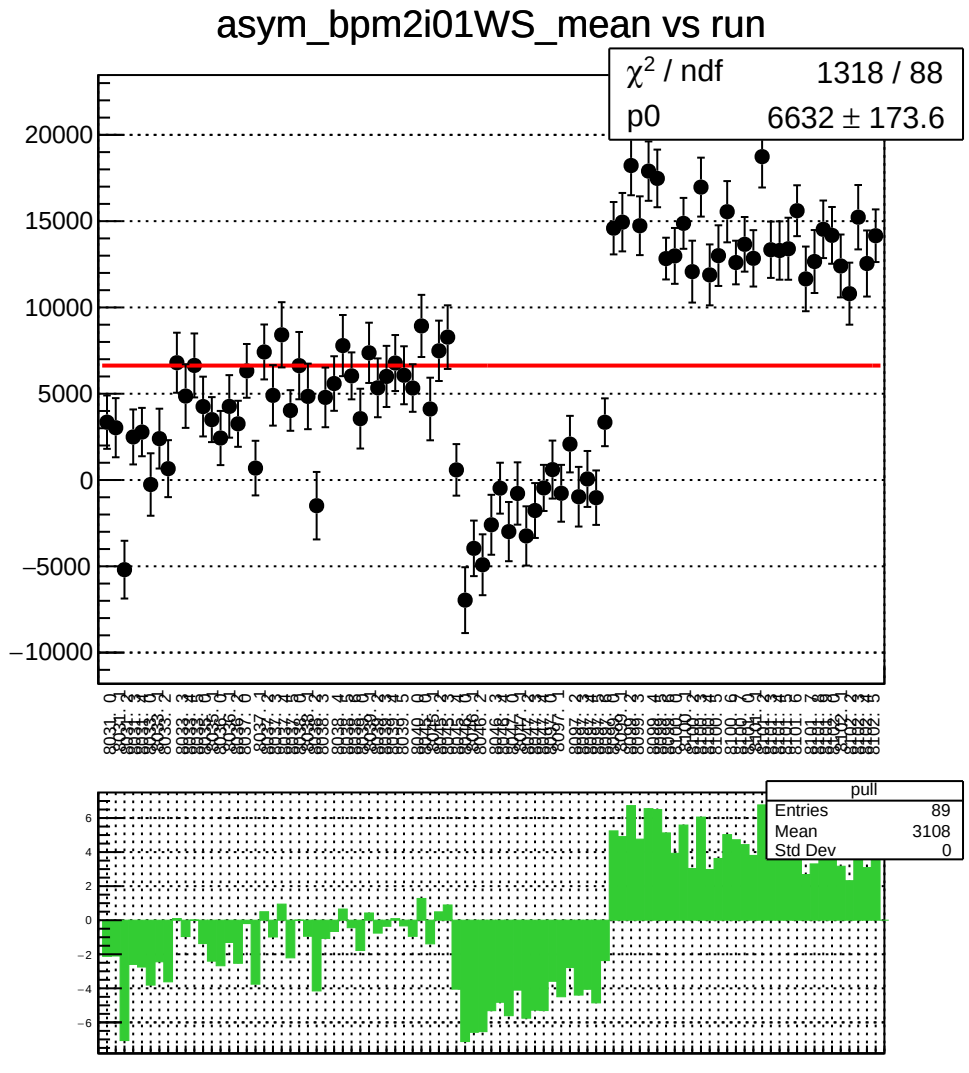

pull1D
Entries 89
Mean 0.008479
Std Dev 0.9752
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

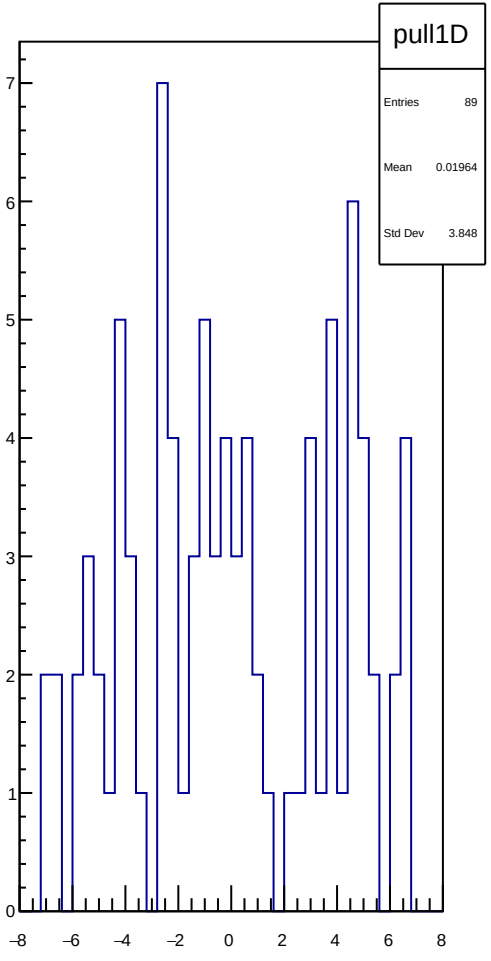

asym_bpm0i07WS_rms vs run
χ² / ndf 1.656e+04 / 88
p0 1523 ± 1.158
1900
1800
1700
1600
1500
1400
1300
1200
1100

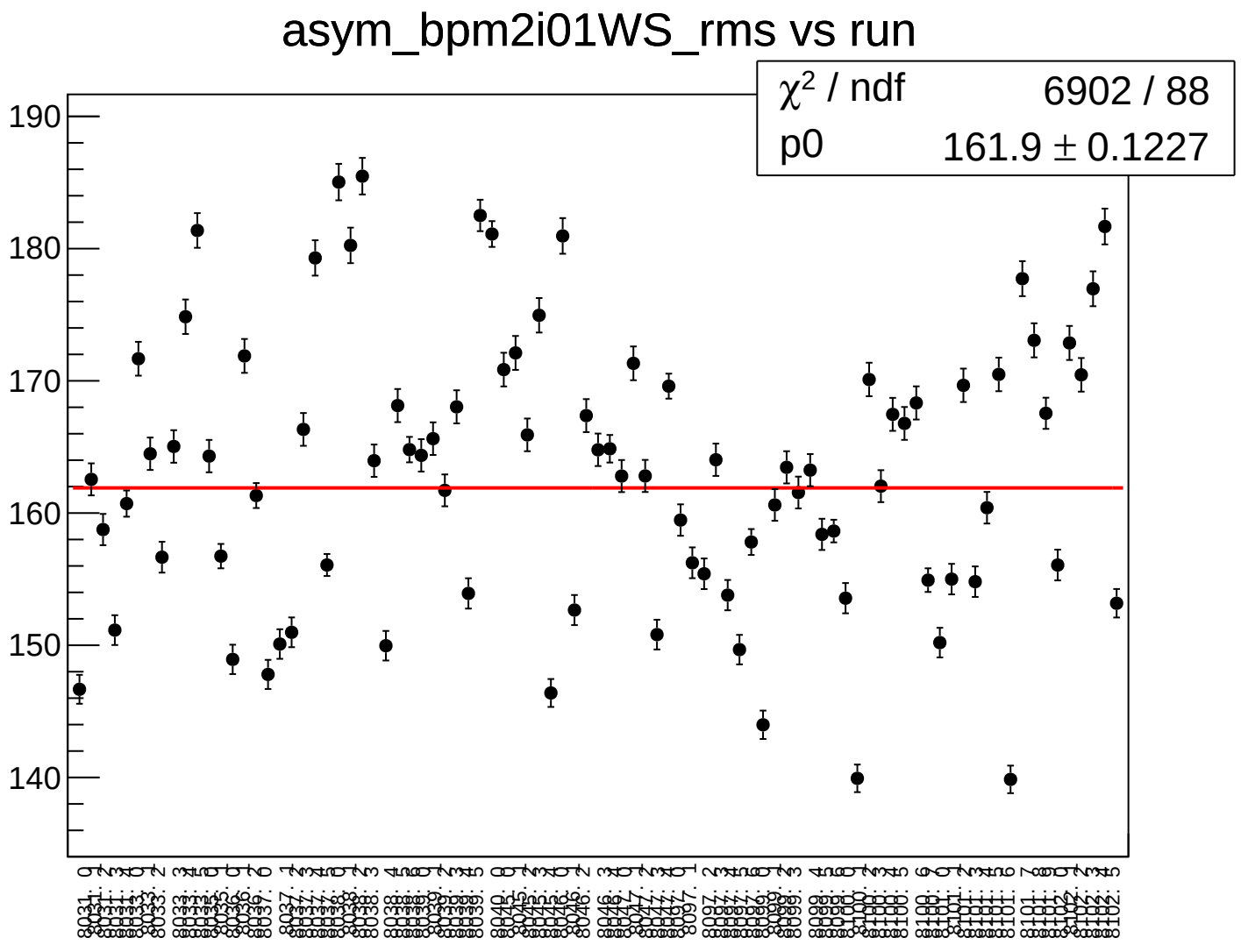

asym_bpm1i02WS_mean vs run
χ² / ndf 1335 / 88
p0 7023 ± 181.4
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 2.152e+04
Std Dev 0
6
4
2
0
−2
−4
−6
−8

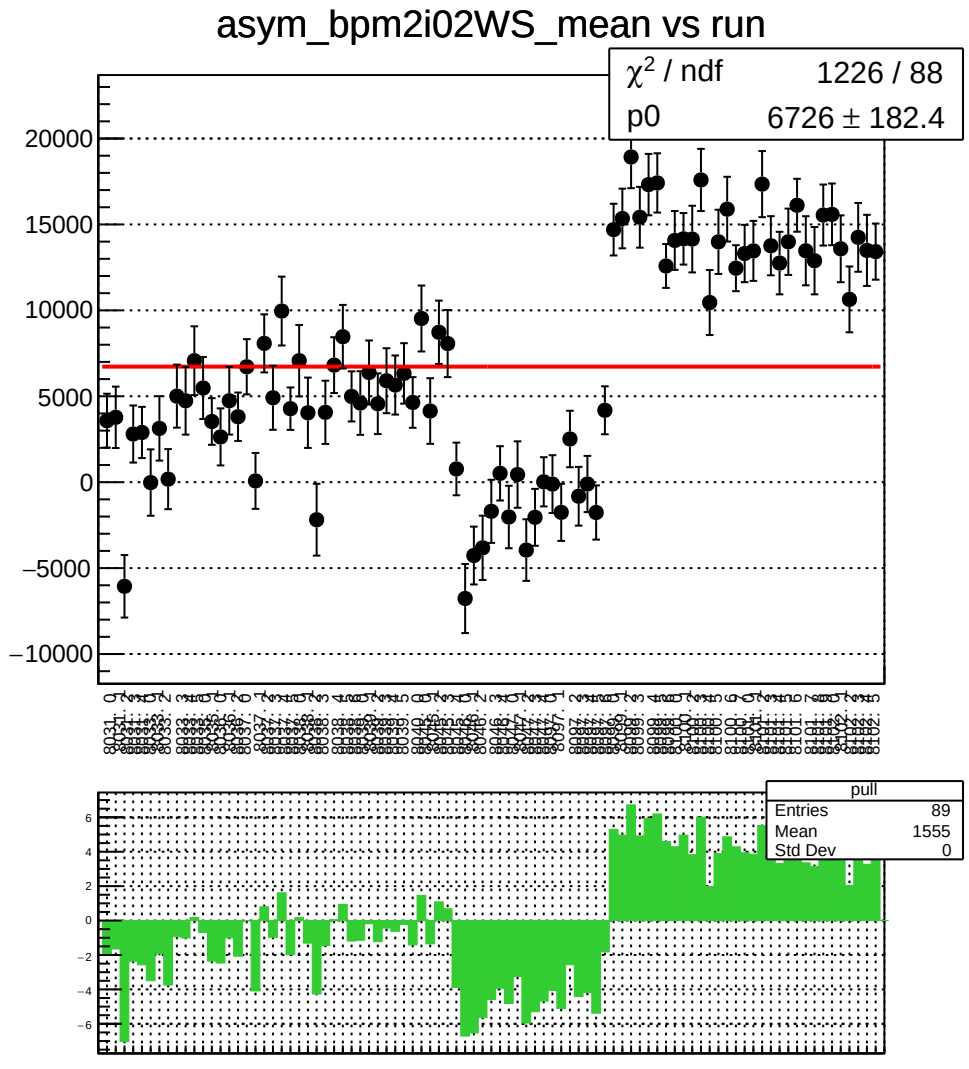

pull1D
Entries 89
Mean 0.1034
Std Dev 3.778
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

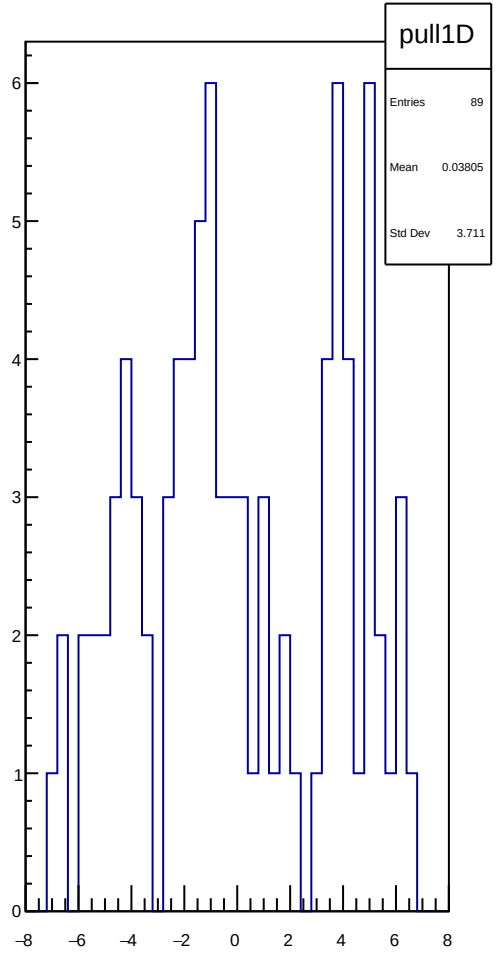

asym_bpm1i02WS_rms vs run
χ² / ndf 9435 / 88
p0 169.1 ± 0.1283
200
190
180
170
160
150
140

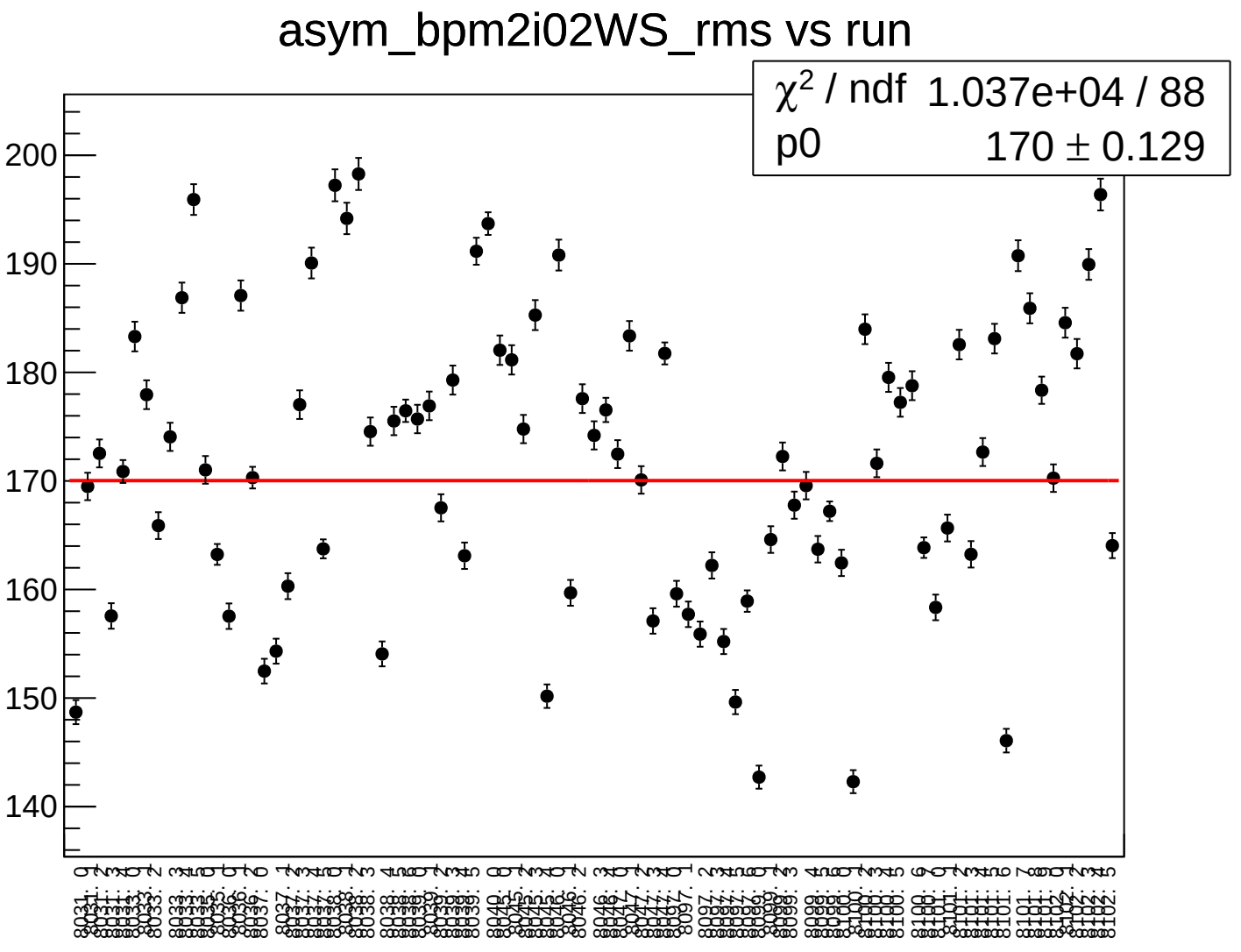

asym_bpm2i01WS_mean vs run
χ² / ndf 1318 / 88
p0 6632 ± 173.6
20000
15000
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 3108
Std Dev 0
6
4
2
0
−2
−4
−6

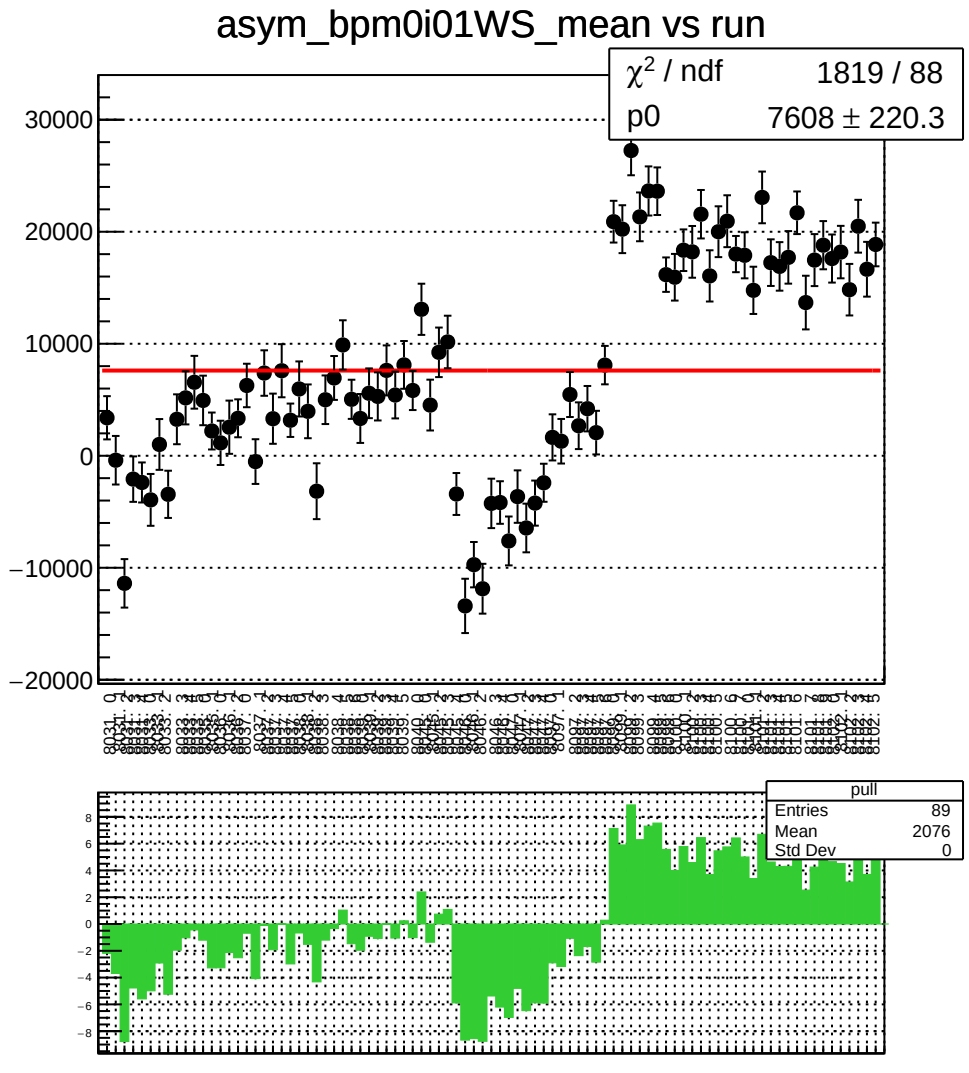

pull1D
Entries 89
Mean 0.01964
Std Dev 3.848
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

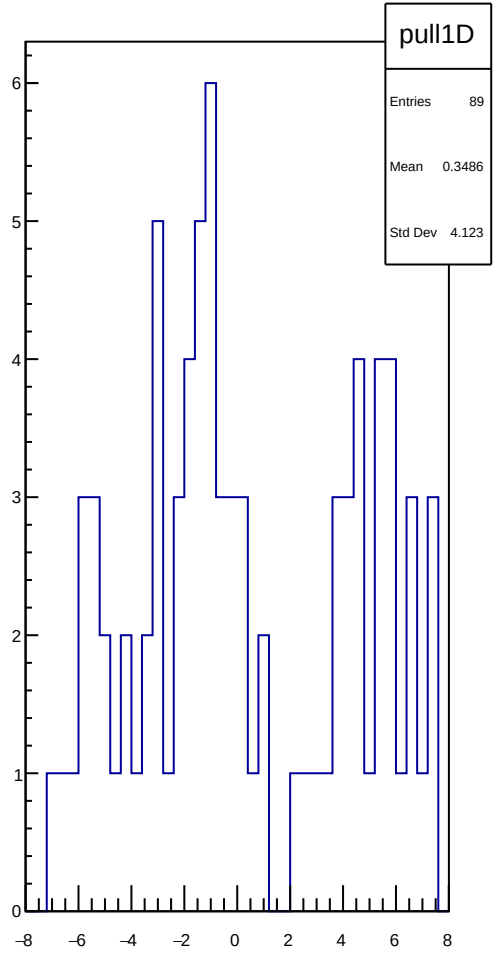

asym_bpm2i01WS_rms vs run
χ² / ndf 6902 / 88
p0 161.9 ± 0.1227
190
180
170
160
150
140

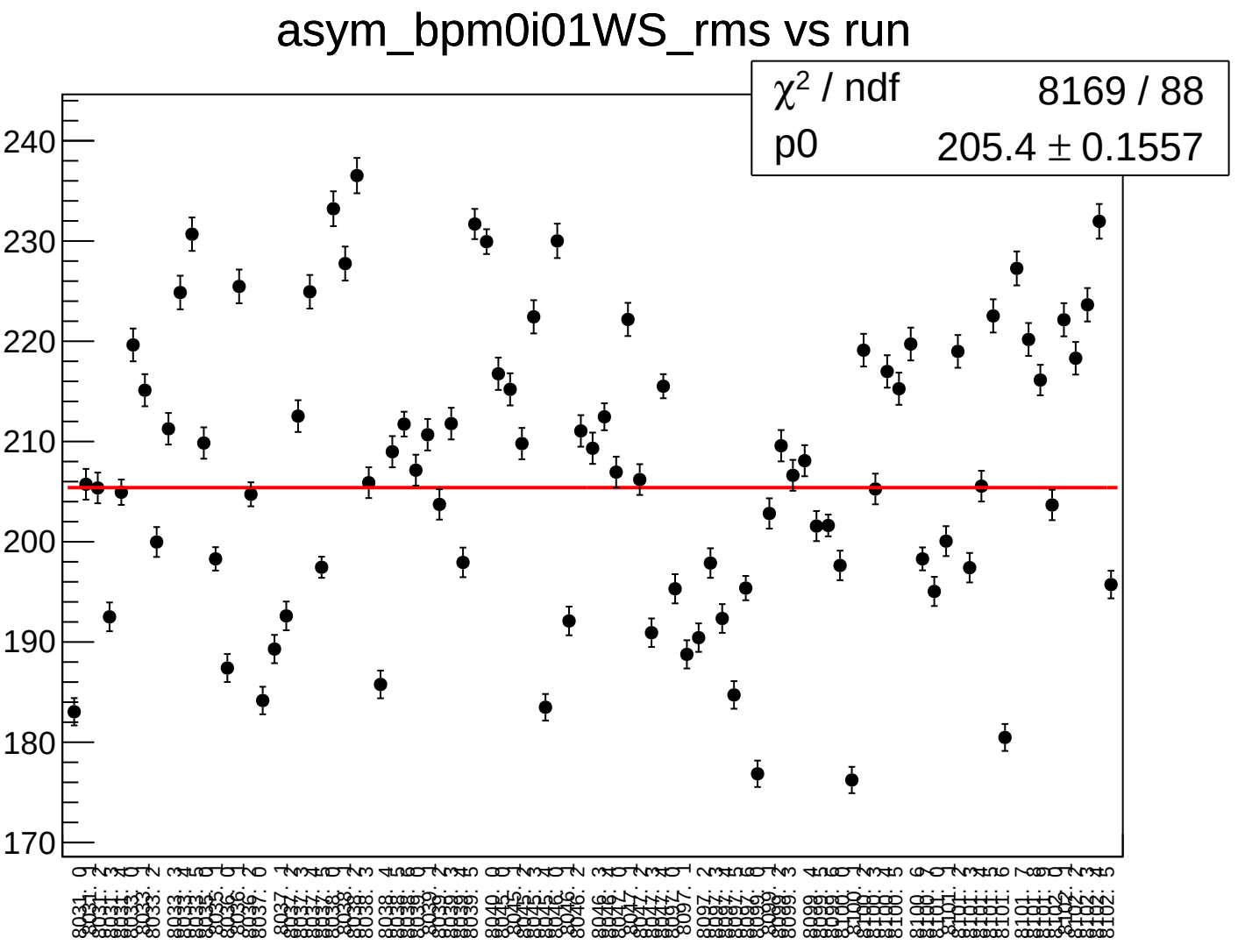

asym_bpm2i02WS_mean vs run
χ² / ndf 1226 / 88
p0 6726 ± 182.4
20000
15000
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 1555
Std Dev 0
6
4
2
0
−2
−4
−6

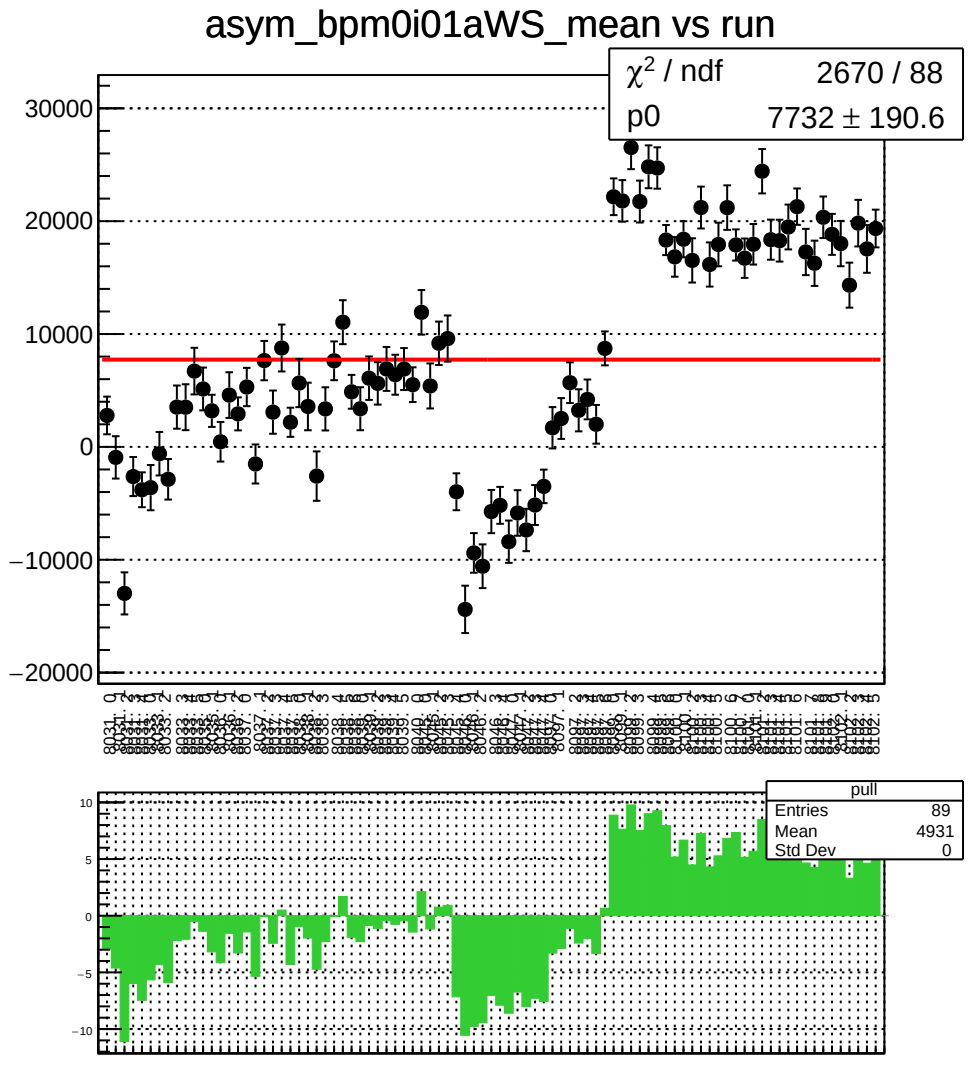

pull1D
Entries 89
Mean 0.03805
Std Dev 3.711
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

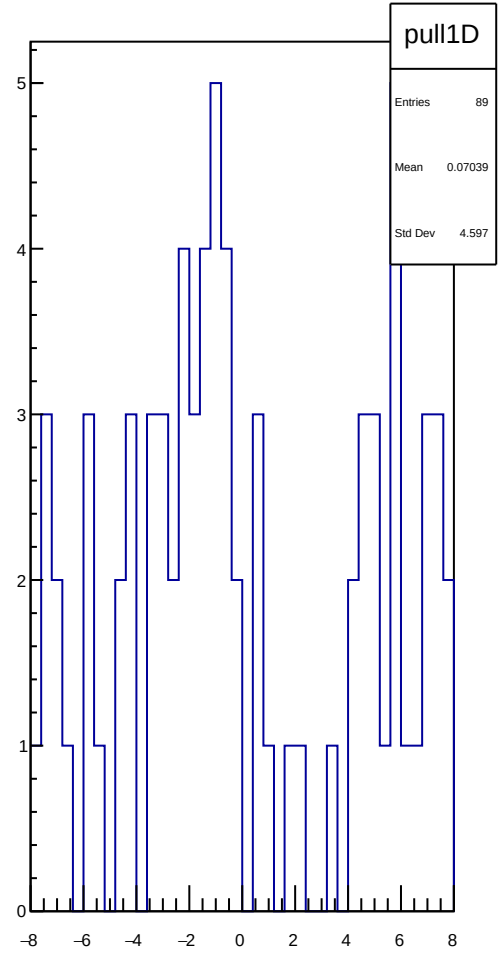

asym_bpm2i02WS_rms vs run
χ² / ndf 1.037e+04 / 88
p0 170 ± 0.129
200
190
180
170
160
150
140

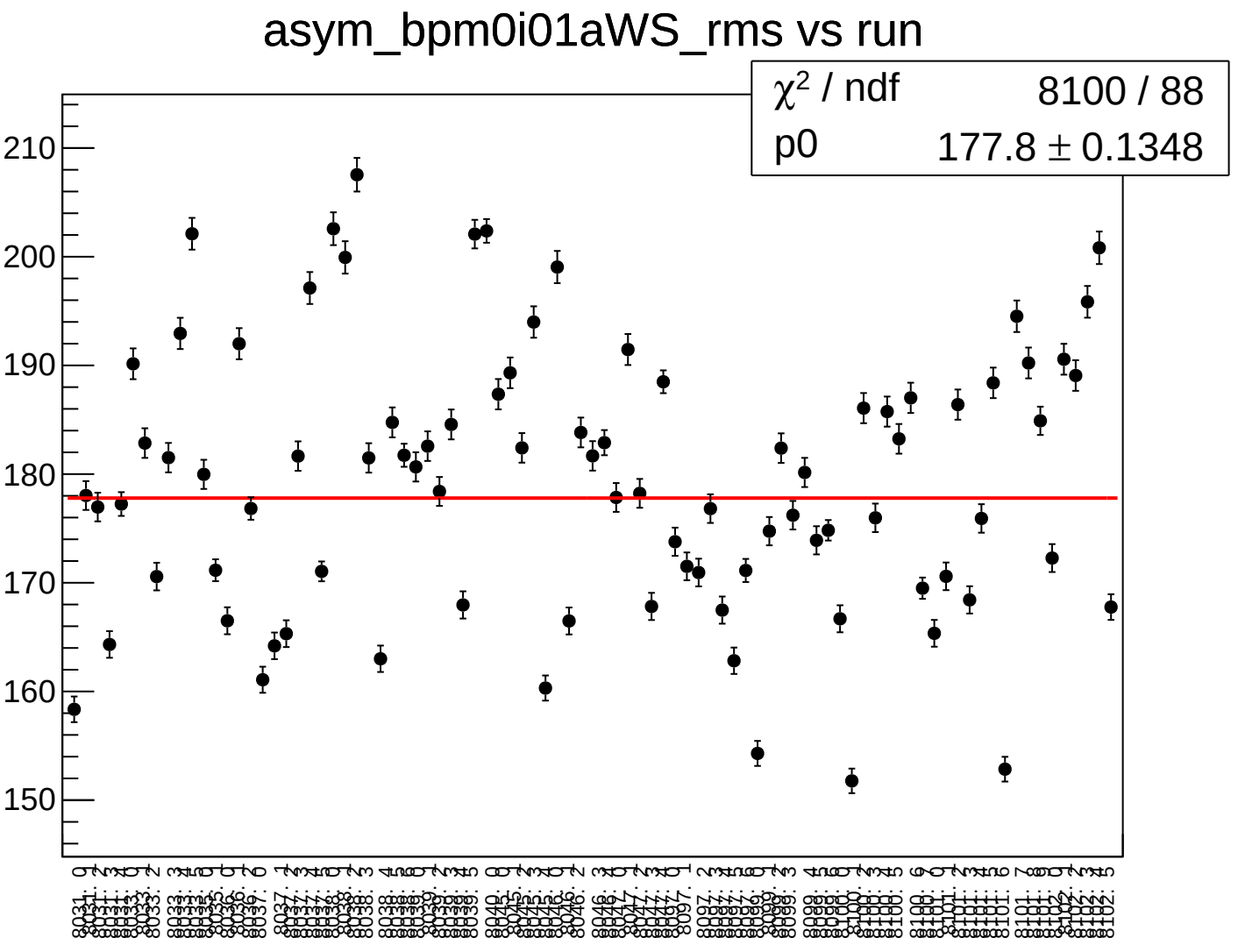

asym_bpm0i01WS_mean vs run
χ² / ndf 1819 / 88
p0 7608 ± 220.3
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 2076
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8

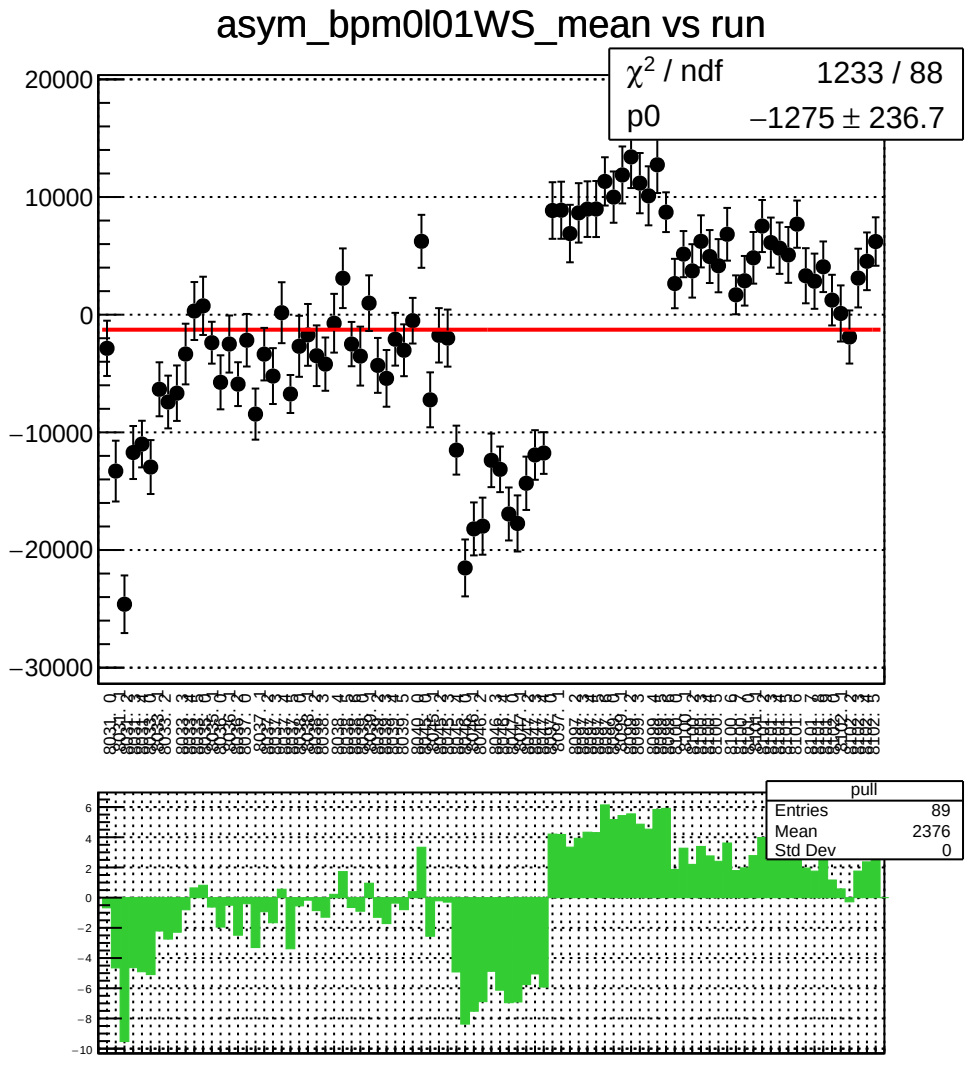

pull1D
Entries 89
Mean 0.3486
Std Dev 4.123
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

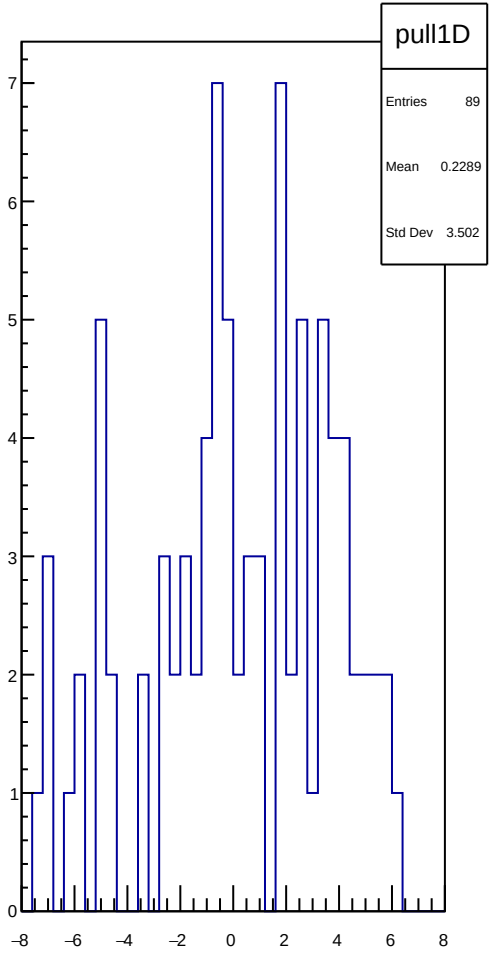

asym_bpm0i01WS_rms vs run
χ² / ndf 8169 / 88
p0 205.4 ± 0.1557
240
230
220
210
200
190
180
170

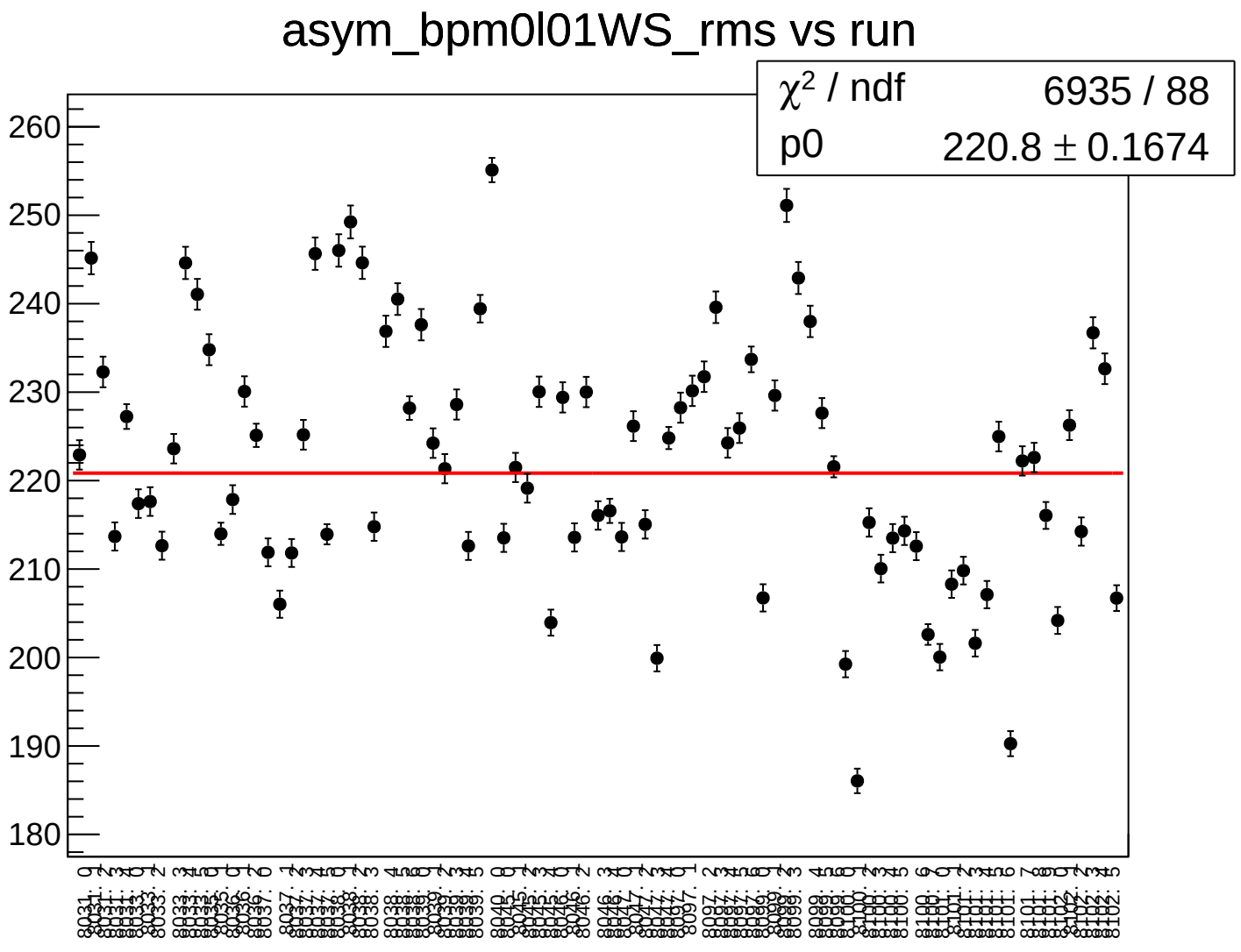

asym_bpm0i01aWS_mean vs run
χ² / ndf 2670 / 88
p0 7732 ± 190.6
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 4931
Std Dev 0
10
5
0
−5
−10

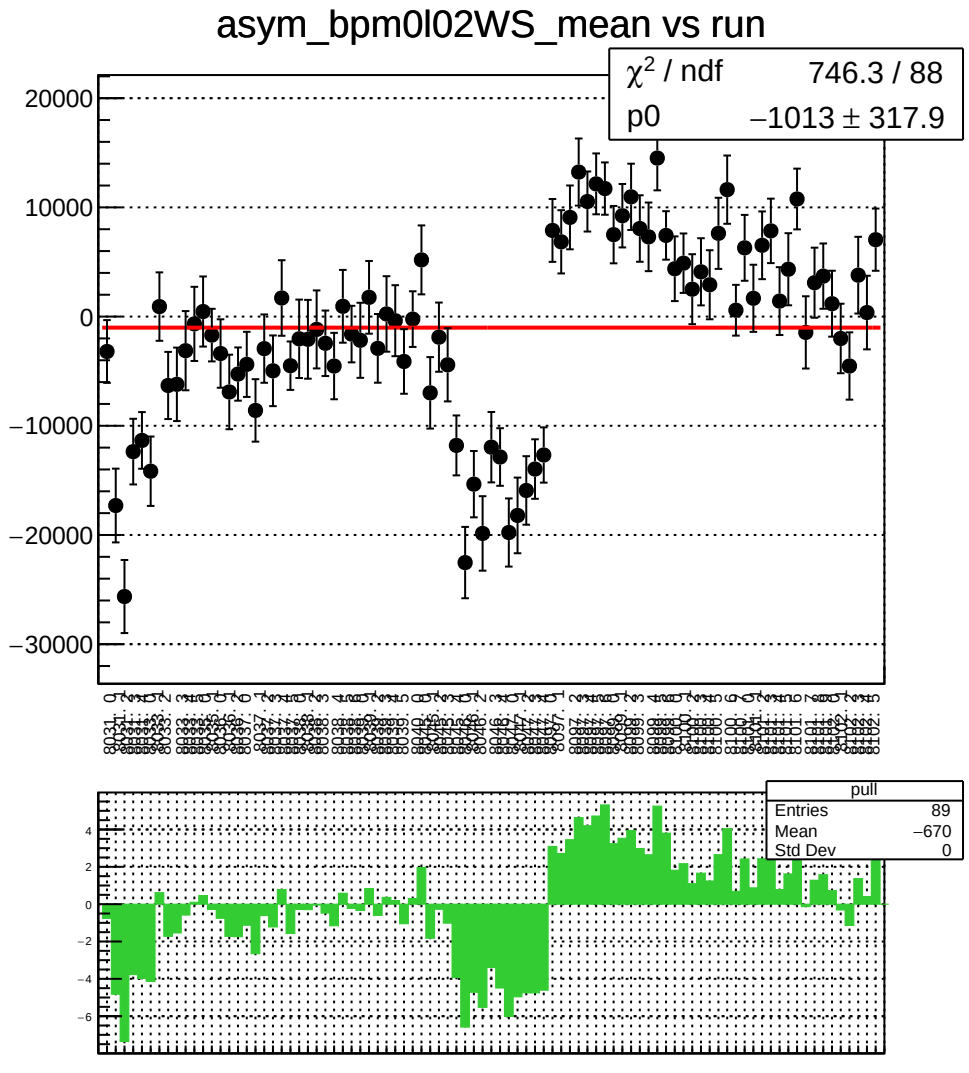

pull1D
Entries 89
Mean 0.07039
Std Dev 4.597
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

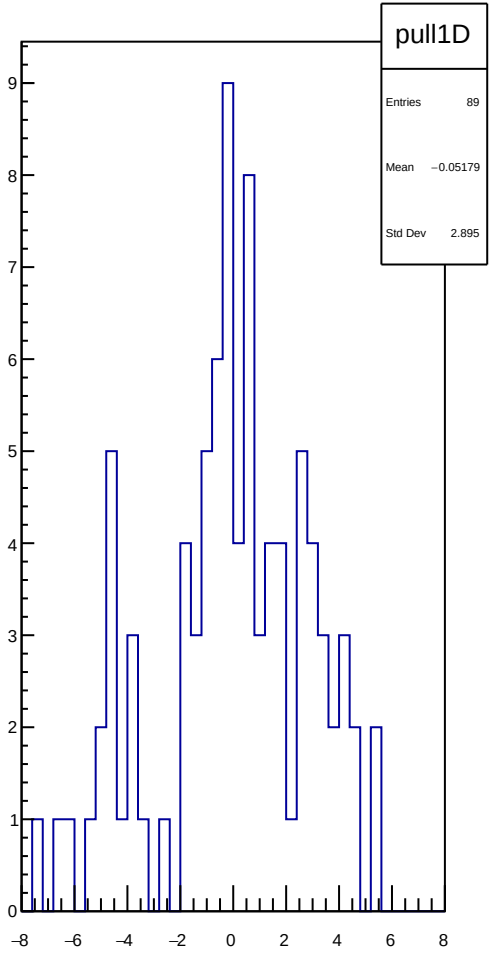

asym_bpm0i01aWS_rms vs run
χ² / ndf 8100 / 88
p0 177.8 ± 0.1348
210
200
190
180
170
160
150

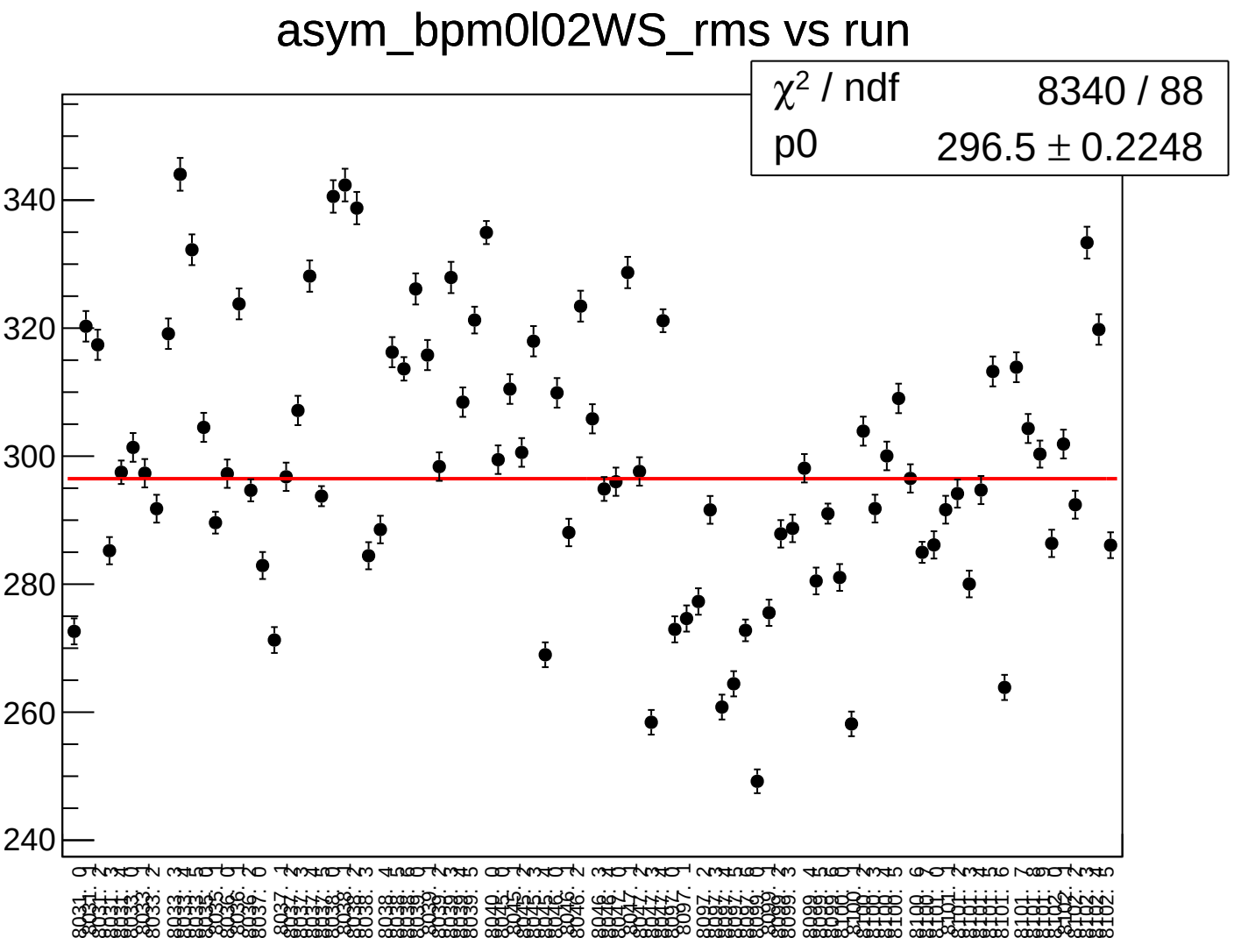

asym_bpm0l01WS_mean vs run
χ² / ndf 1233 / 88
p0 −1275 ± 236.7
pull
Entries 89
Mean 2376
Std Dev 0

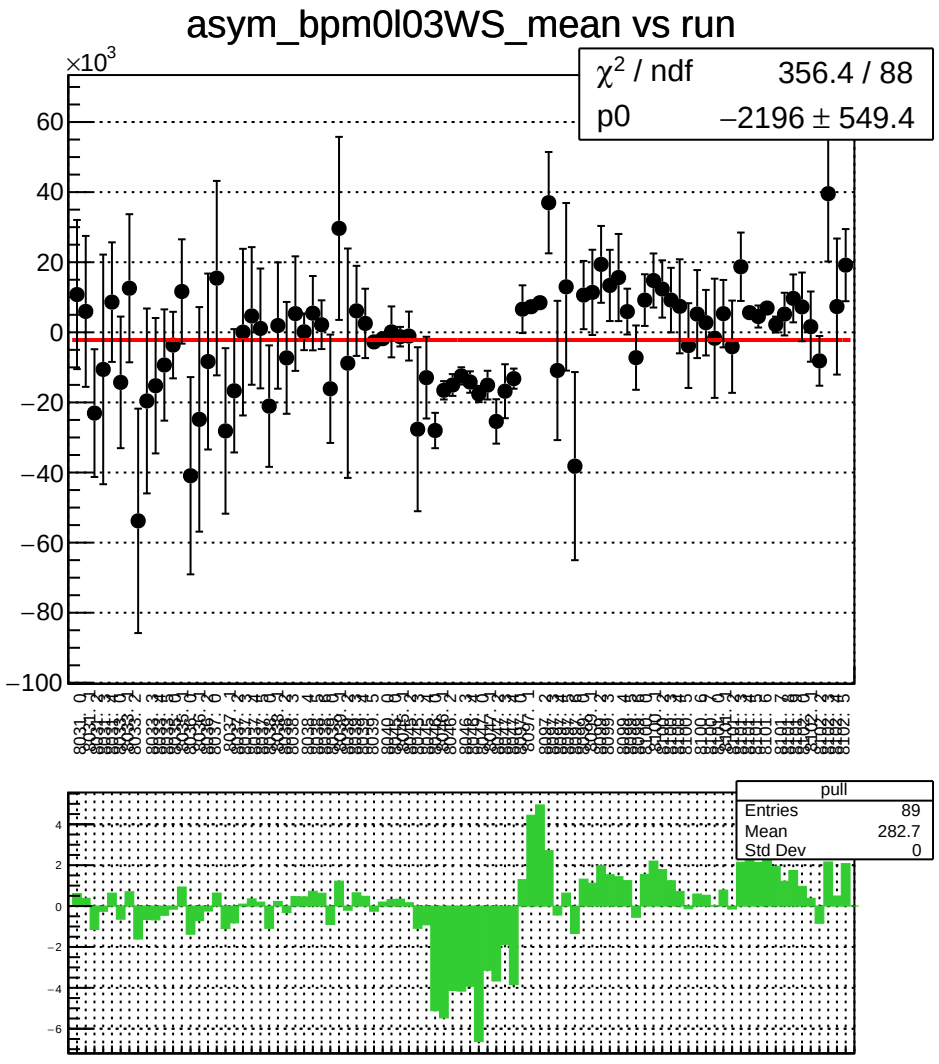

pull1D
Entries 89
Mean 0.2289
Std Dev 3.502

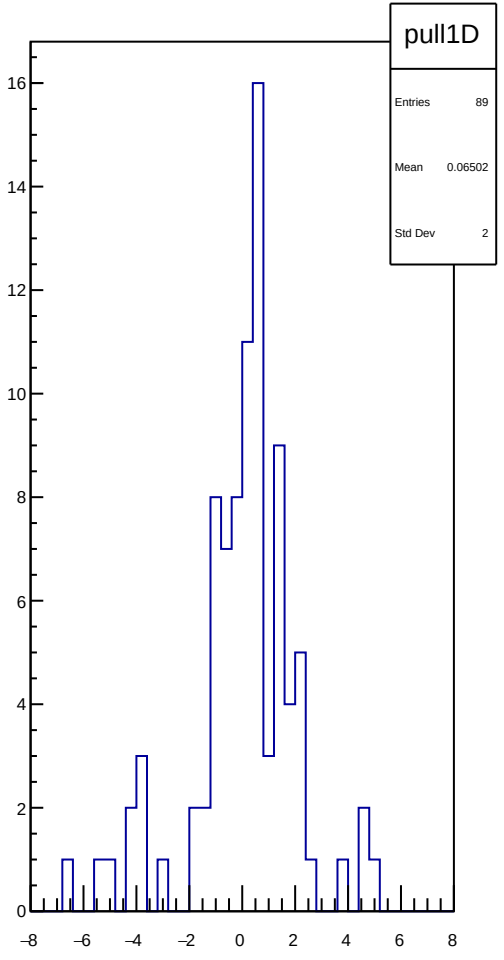

asym_bpm0l01WS_rms vs run
χ² / ndf 6935 / 88
p0 220.8 ± 0.1674
260
250
240
230
220
210
200
190
180

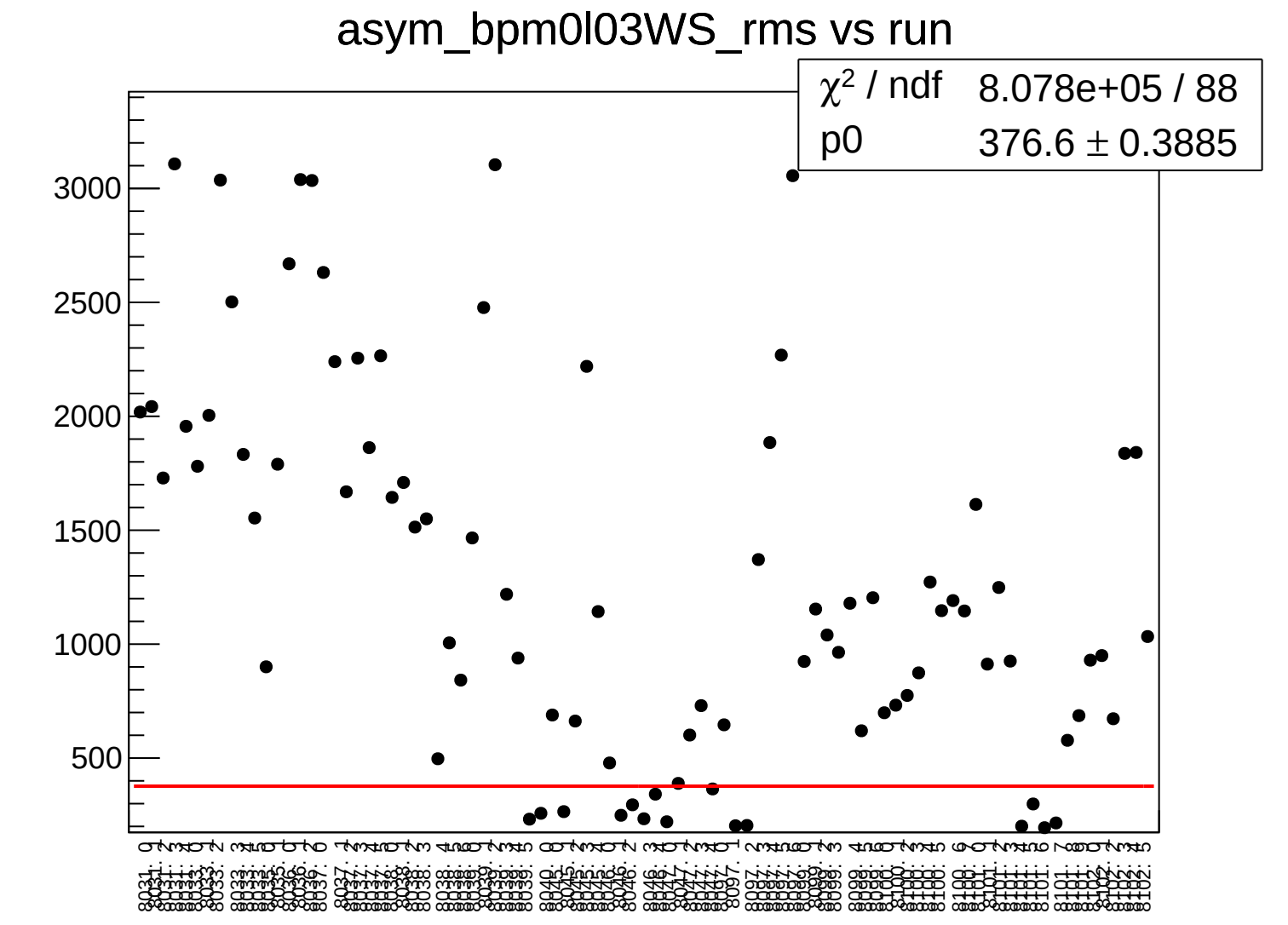

asym_bpm0l02WS_mean vs run
χ² / ndf 746.3 / 88
p0 −1013 ± 317.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −670
Std Dev 0
4
2
0
−2
−4
−6

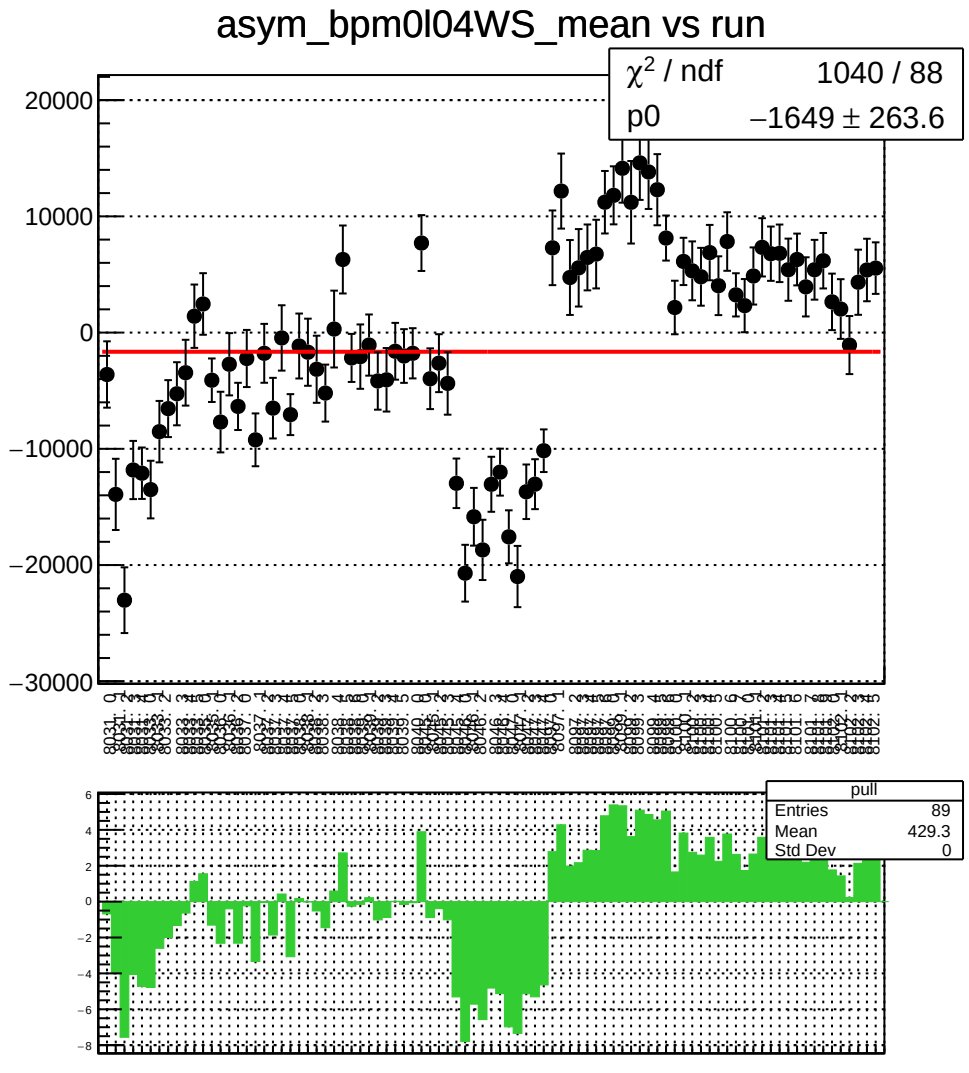

pull1D
Entries 89
Mean −0.05179
Std Dev 2.895
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

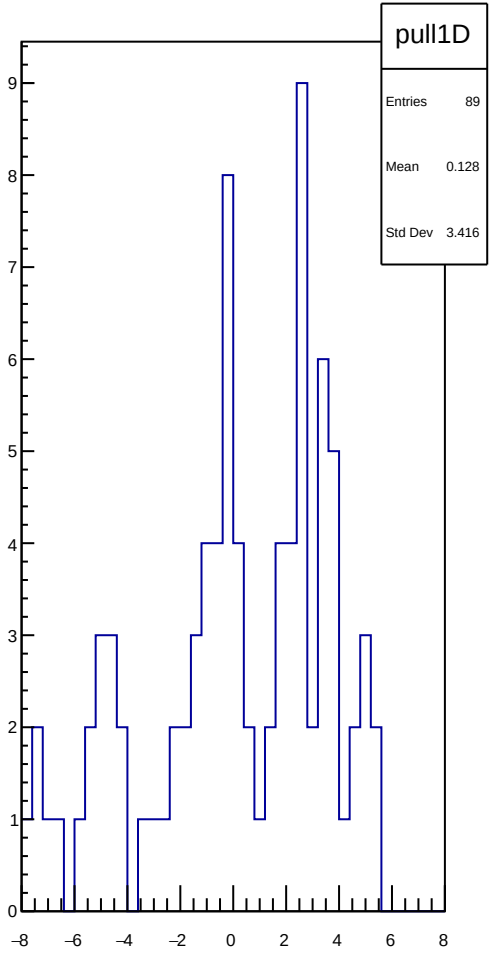

asym_bpm0l02WS_rms vs run
χ² / ndf 8340 / 88
p0 296.5 ± 0.2248
340
320
300
280
260
240

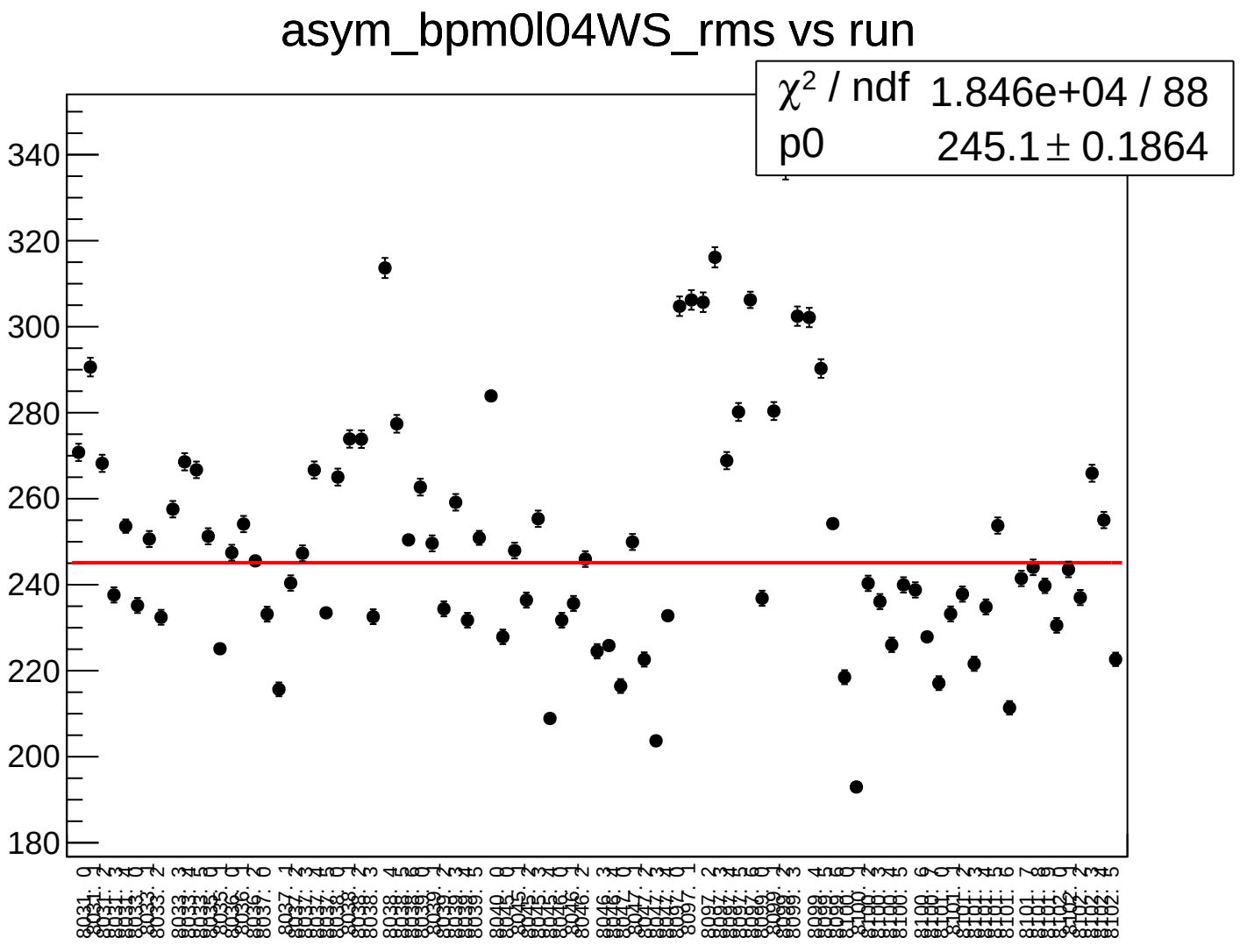

asym_bpm0l03WS_mean vs run
×10^3
χ² / ndf 356.4 / 88
p0 −2196 ± 549.4
pull
Entries 89
Mean 282.7
Std Dev 0

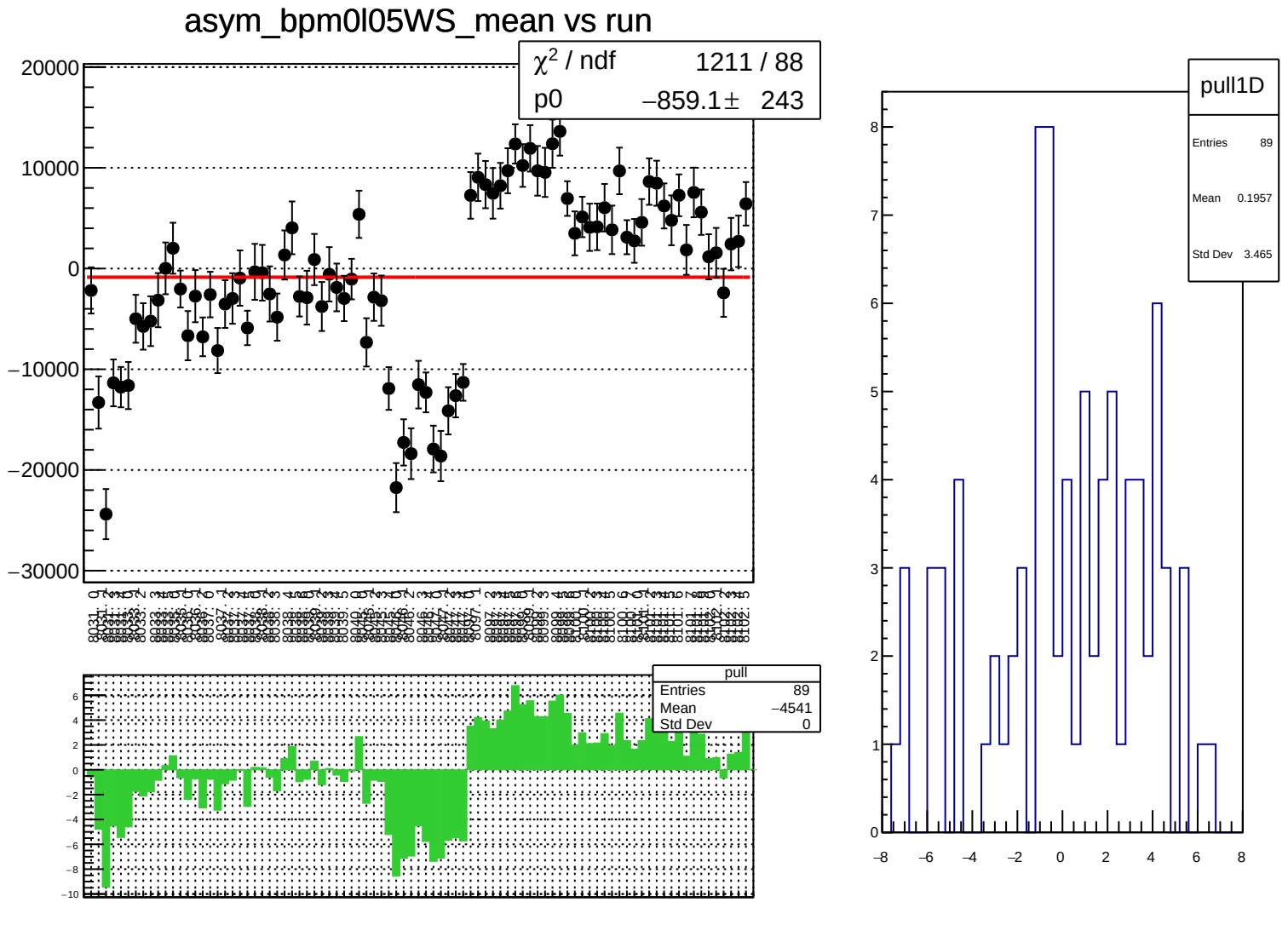

pull1D
Entries 89
Mean 0.06502
Std Dev 2

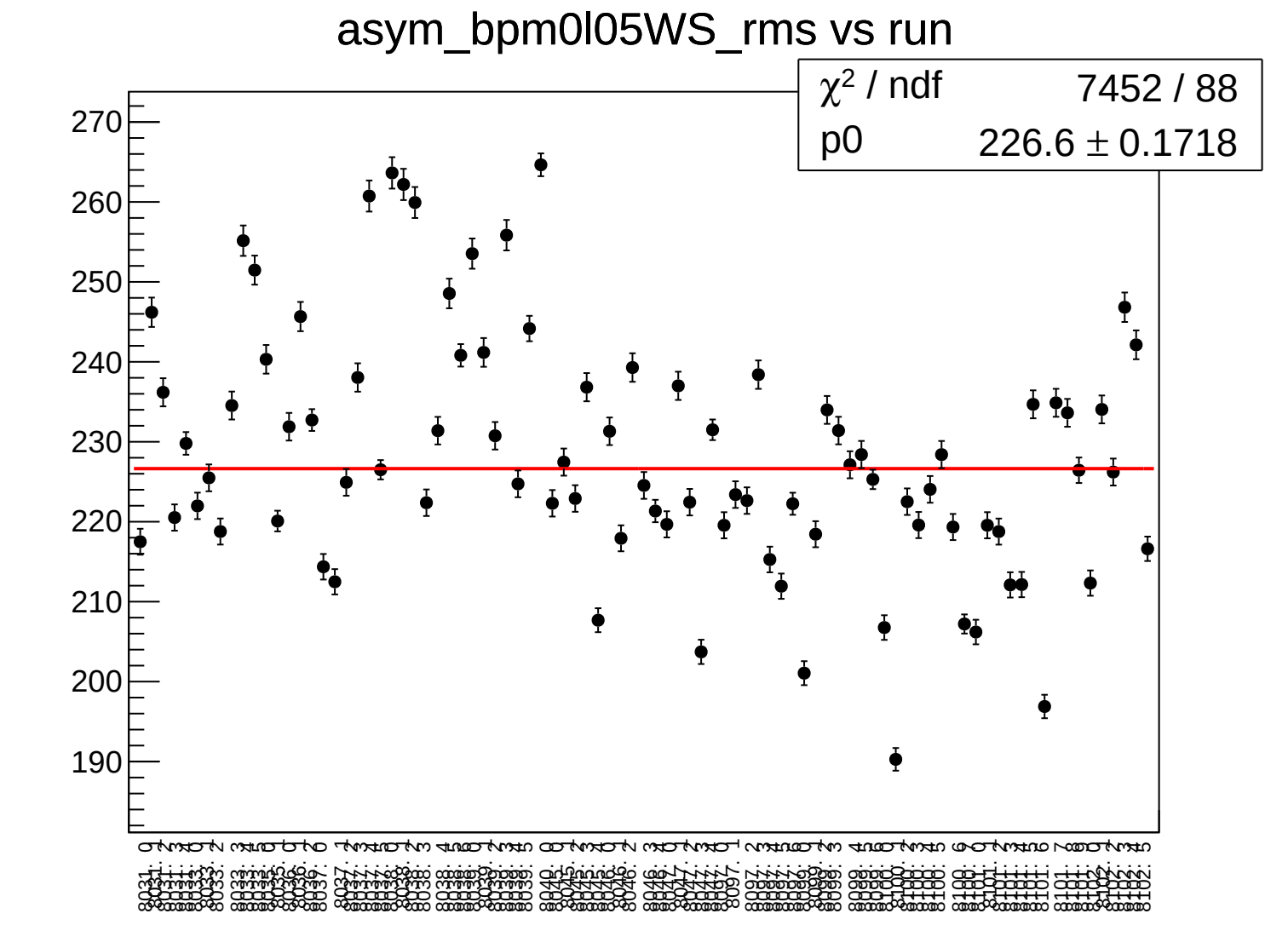

asym_bpm0l03WS_rms vs run
χ² / ndf 8.078e+05 / 88
p0 376.6 ± 0.3885
3000
2500
2000
1500
1000
500

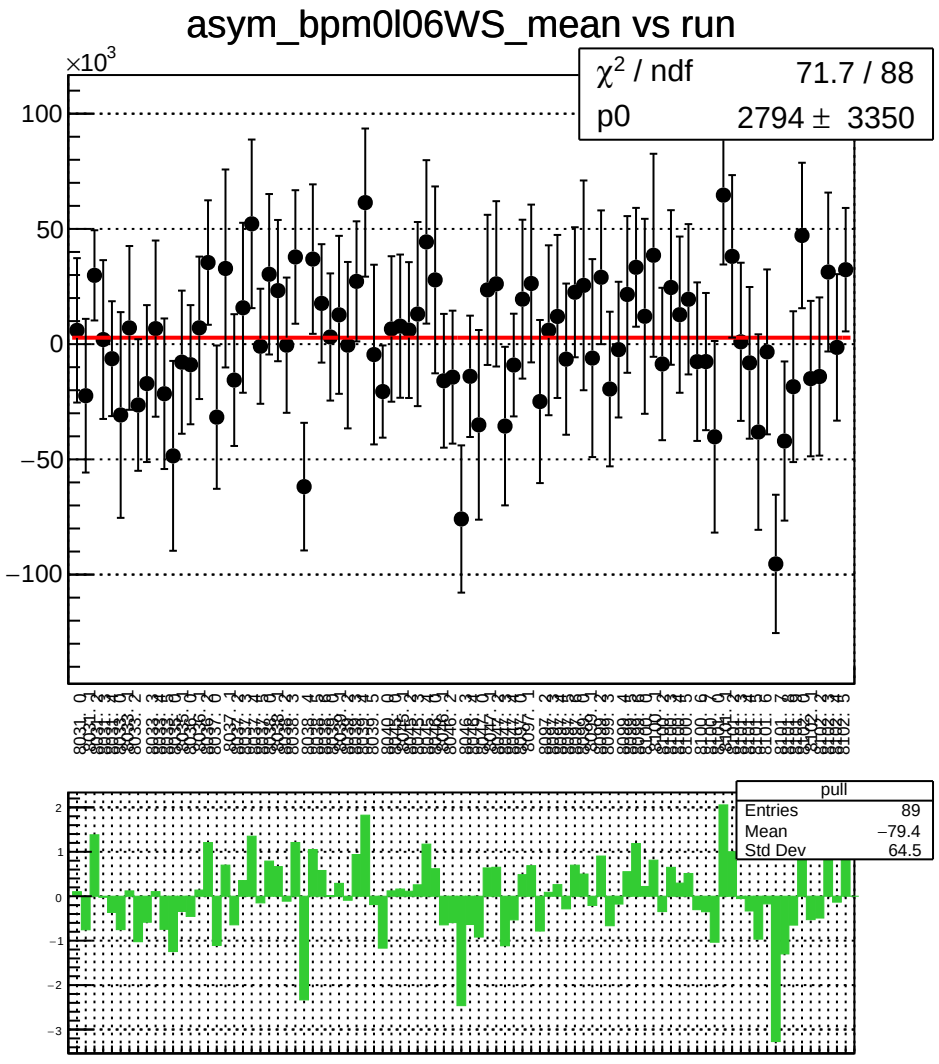

asym_bpm0l04WS_mean vs run
χ² / ndf 1040 / 88
p0 −1649 ± 263.6
pull
Entries 89
Mean 429.3
Std Dev 0

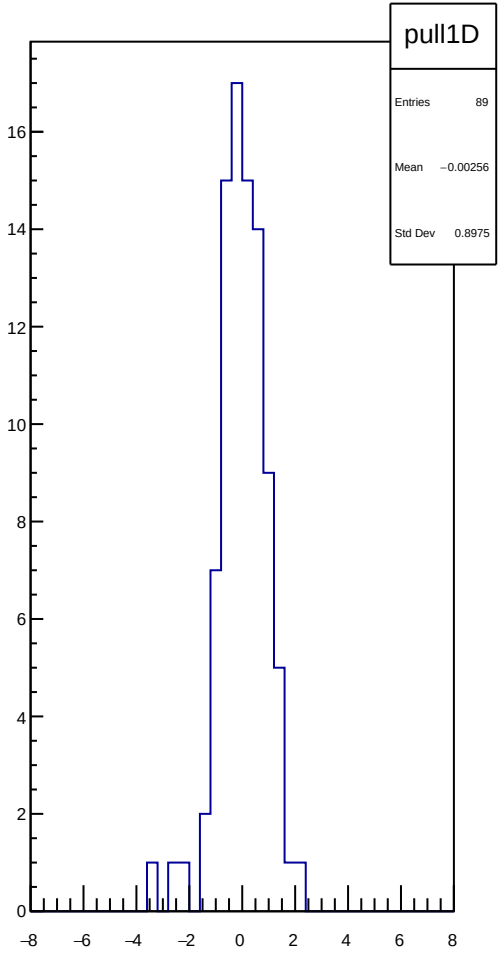

pull1D
Entries 89
Mean 0.128
Std Dev 3.416

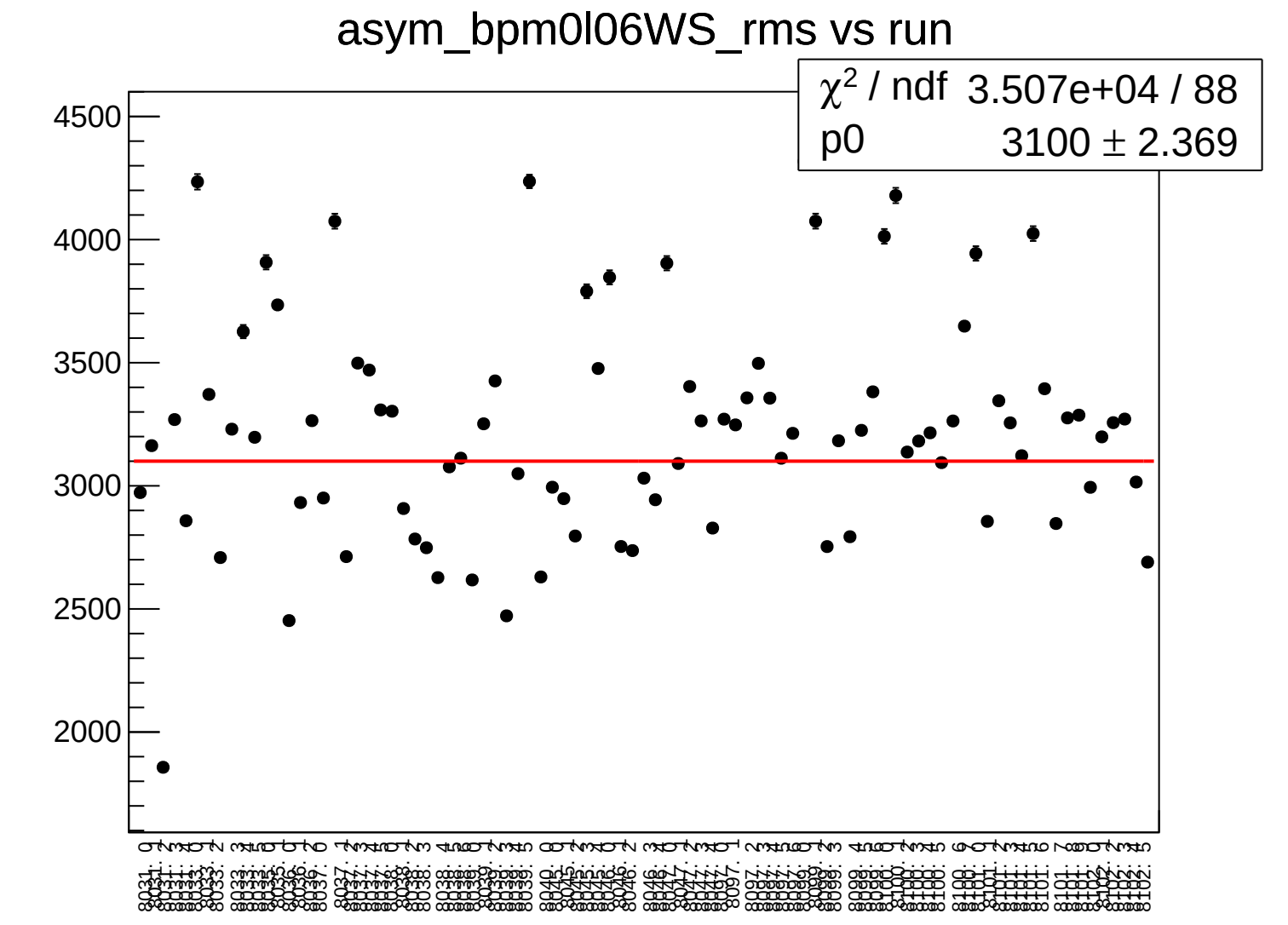

asym_bpm0l04WS_rms vs run
χ² / ndf 1.846e+04 / 88
p0 245.1 ± 0.1864
340
320
300
280
260
240
220
200
180

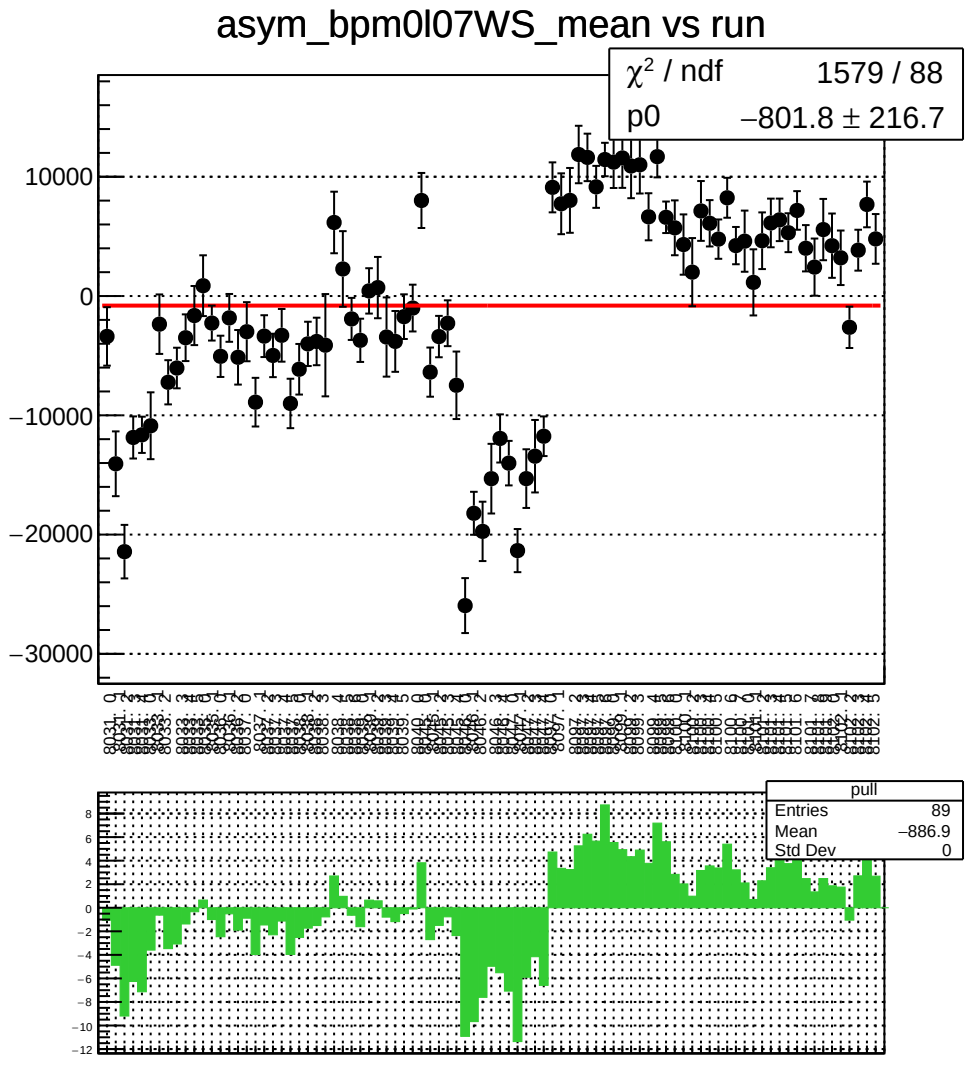

asym_bpm0l05WS_mean vs run
χ² / ndf 1211 / 88
p0 −859.1± 243
pull
Entries 89
Mean −4541
Std Dev 0
pull1D
Entries 89
Mean 0.1957
Std Dev 3.465

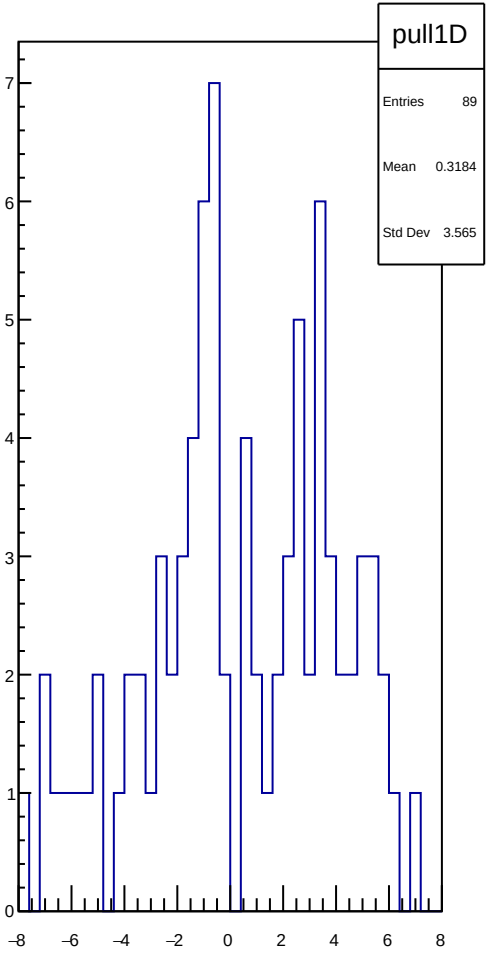

asym_bpm0l05WS_rms vs run
χ² / ndf 7452 / 88
p0 226.6 ± 0.1718
270
260
250
240
230
220
210
200
190

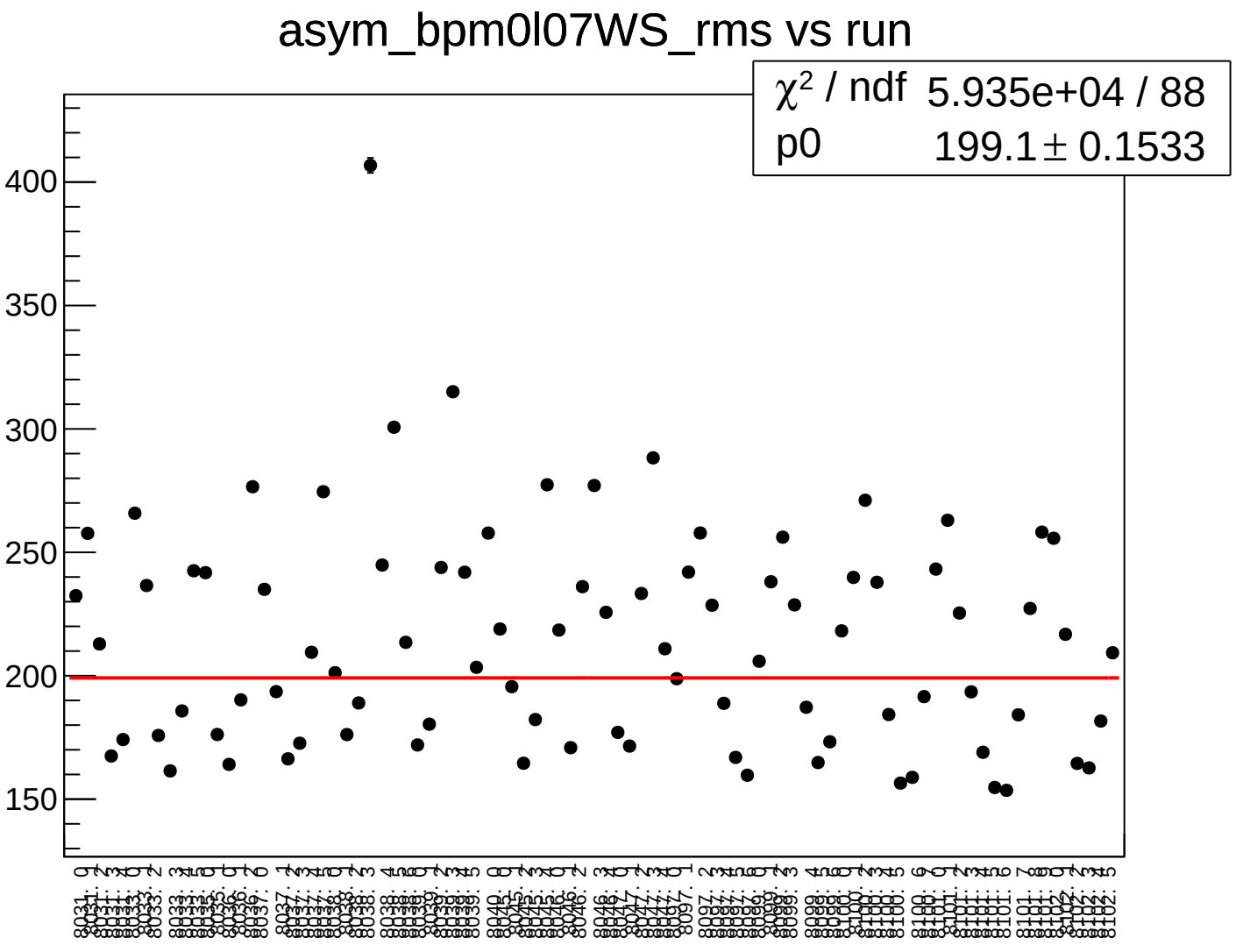

asym_bpm0l06WS_mean vs run
×10^3
χ² / ndf 71.7 / 88
p0 2794 ± 3350
100
50
0
−50
−100
pull
Entries 89
Mean −79.4
Std Dev 64.5
2
1
0
−1
−2
−3

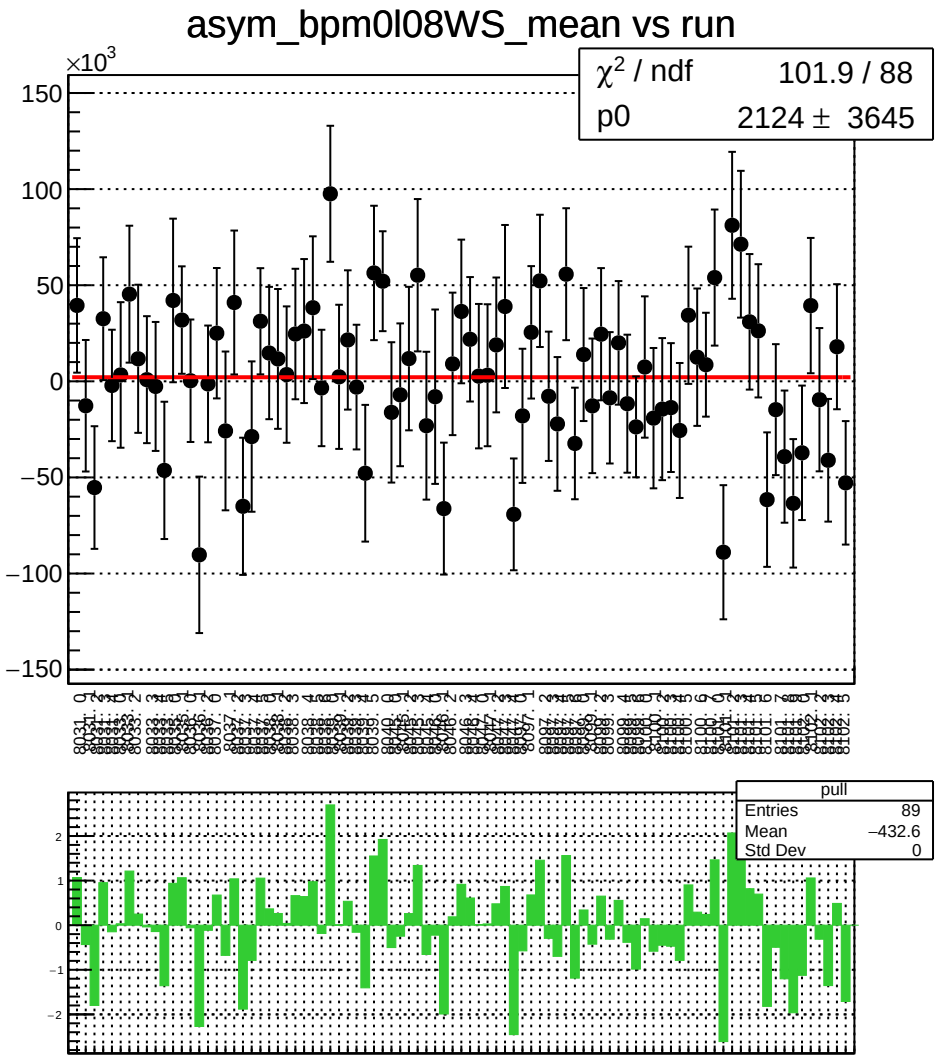

pull1D
Entries 89
Mean −0.00256
Std Dev 0.8975
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

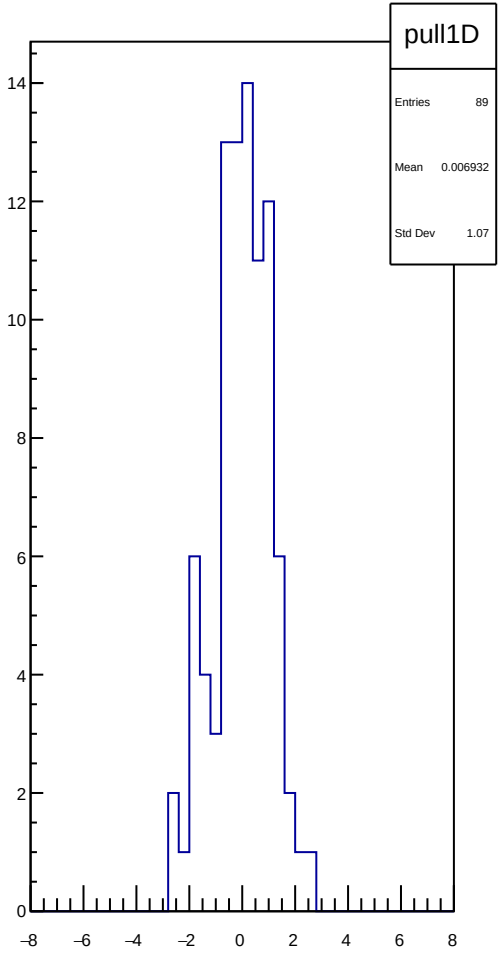

asym_bpm0l06WS_rms vs run
$\chi^2$ / ndf 3.507e+04 / 88
p0 3100 ± 2.369
4500
4000
3500
3000
2500
2000

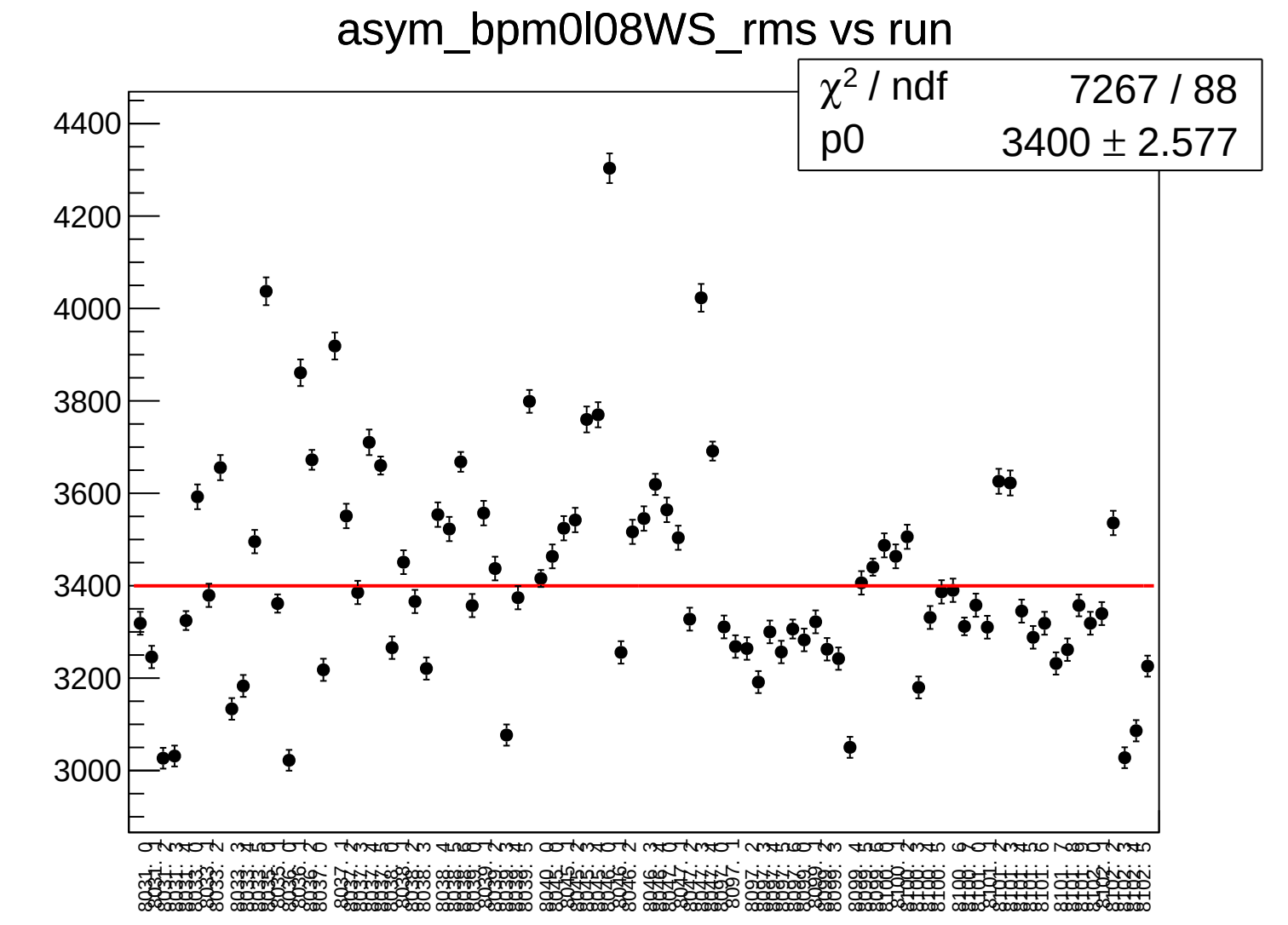

asym_bpm0l07WS_mean vs run
χ² / ndf 1579 / 88
p0 −801.8 ± 216.7
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −886.9
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8
−10
−12

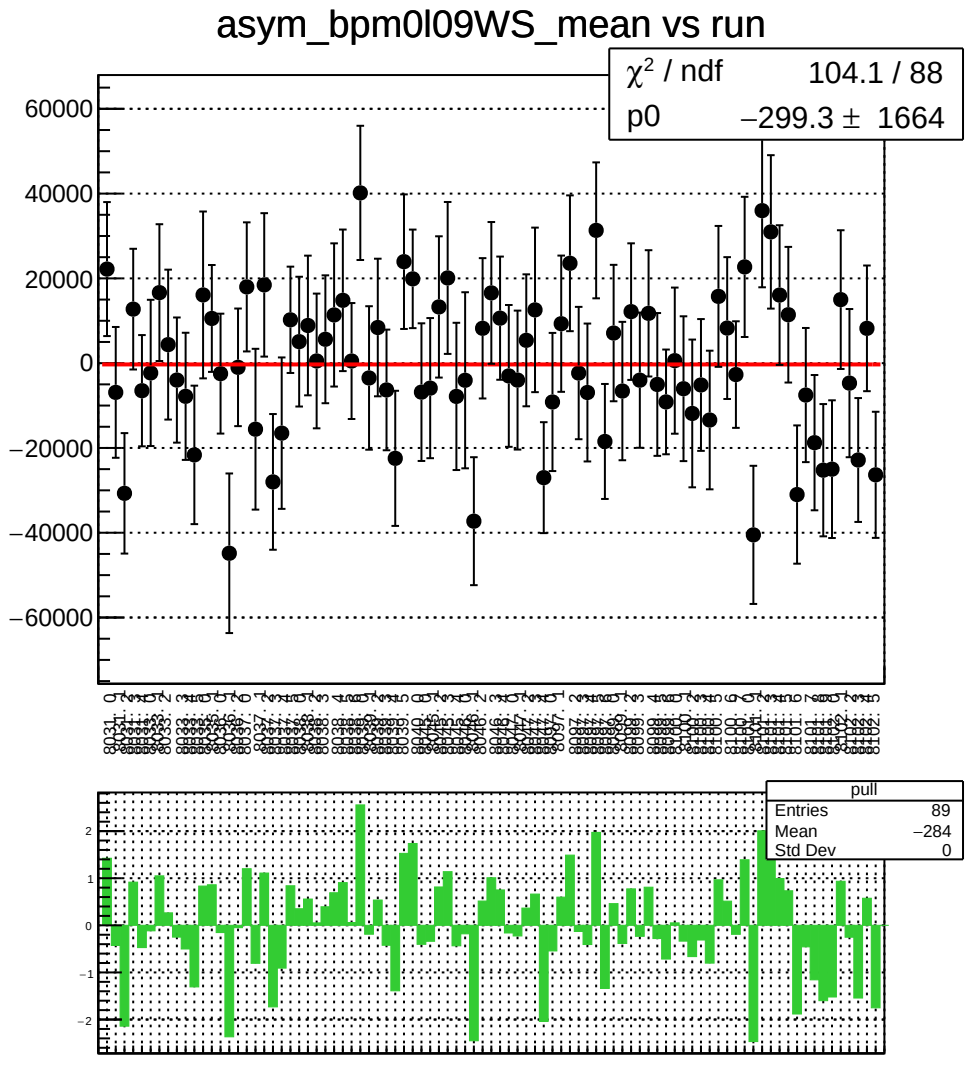

pull1D
Entries 89
Mean 0.3184
Std Dev 3.565
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

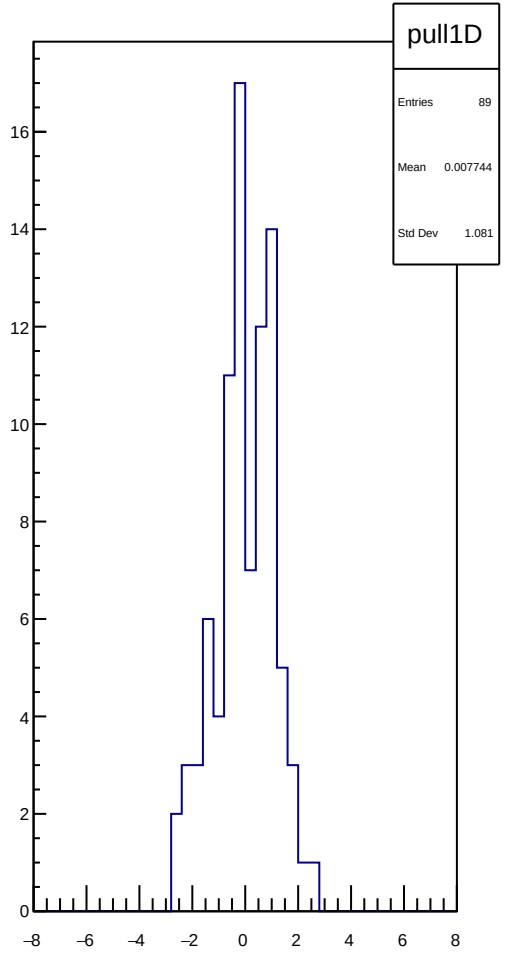

asym_bpm0l07WS_rms vs run
χ² / ndf 5.935e+04 / 88
p0 199.1 ± 0.1533
400
350
300
250
200
150

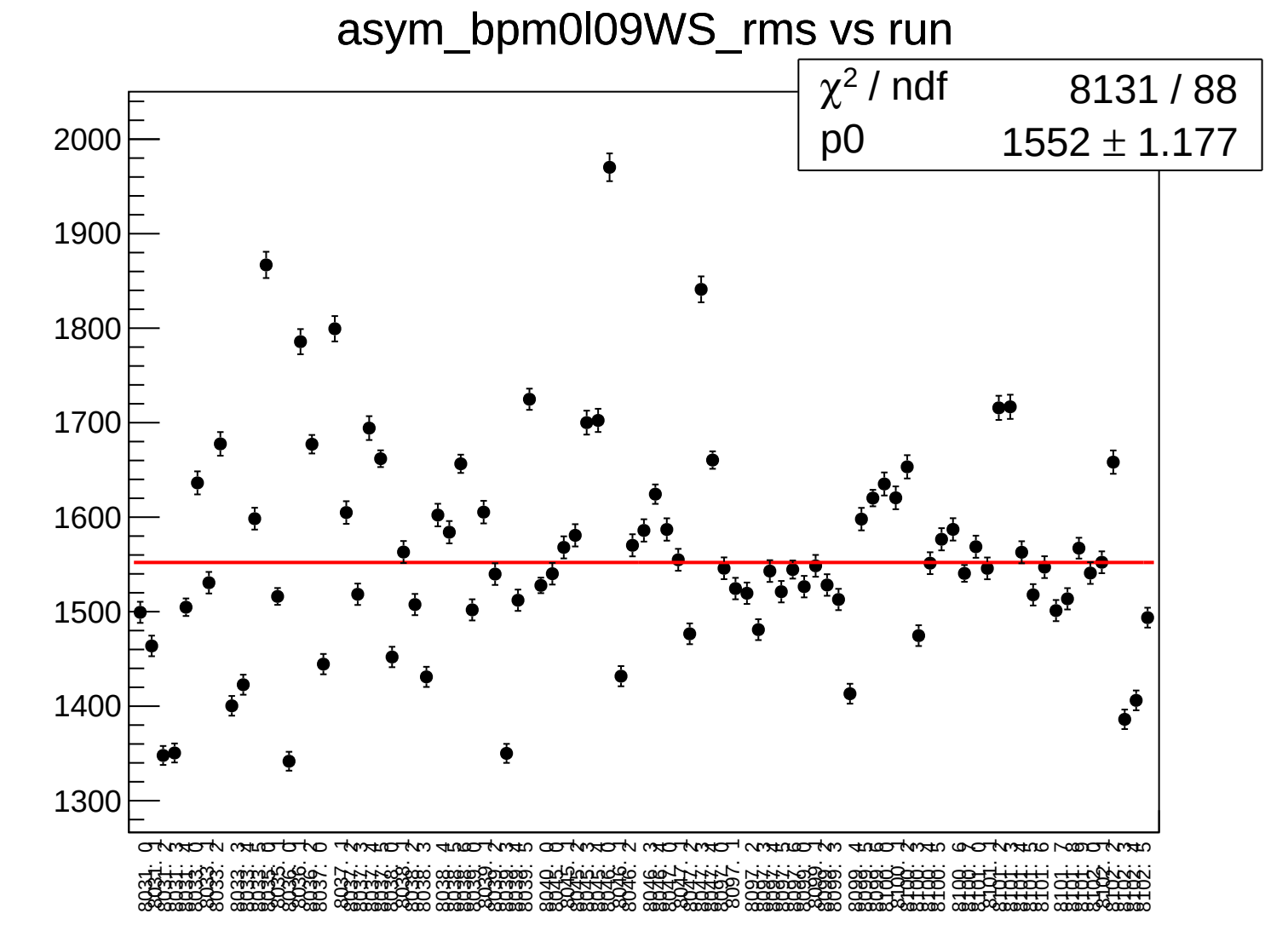

asym_bpm0l08WS_mean vs run
×10^3
χ² / ndf 101.9 / 88
p0 2124 ± 3645
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −432.6
Std Dev 0
2
1
0
−1
−2

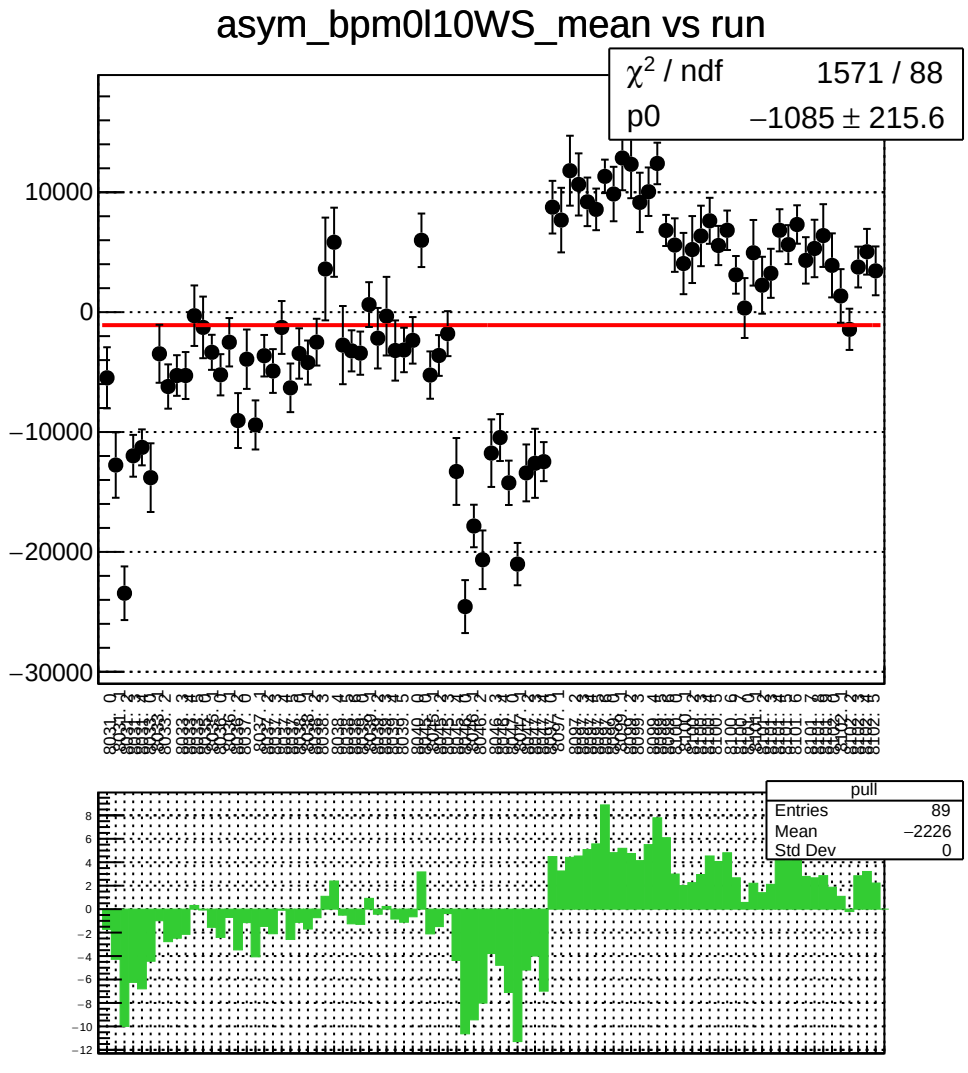

pull1D
Entries 89
Mean 0.006932
Std Dev 1.07
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

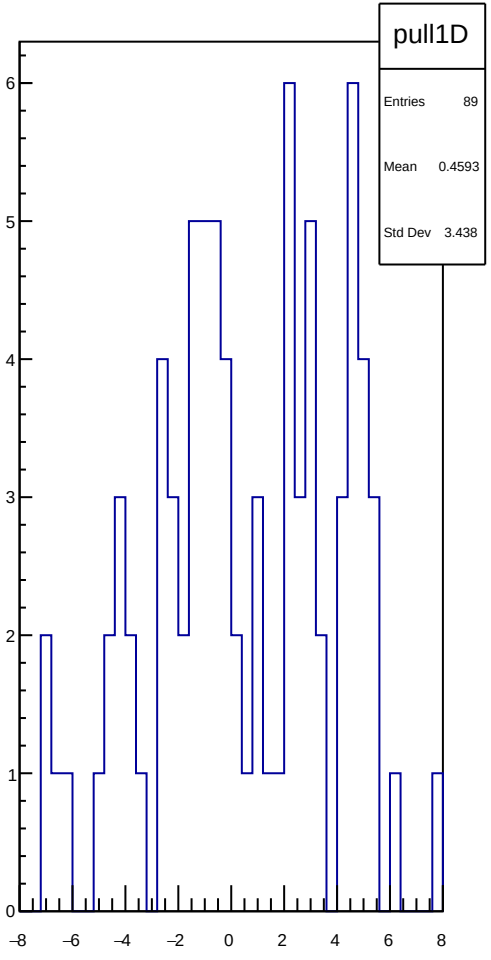

asym_bpm0l08WS_rms vs run
χ² / ndf 7267 / 88
p0 3400 ± 2.577
4400
4200
4000
3800
3600
3400
3200
3000

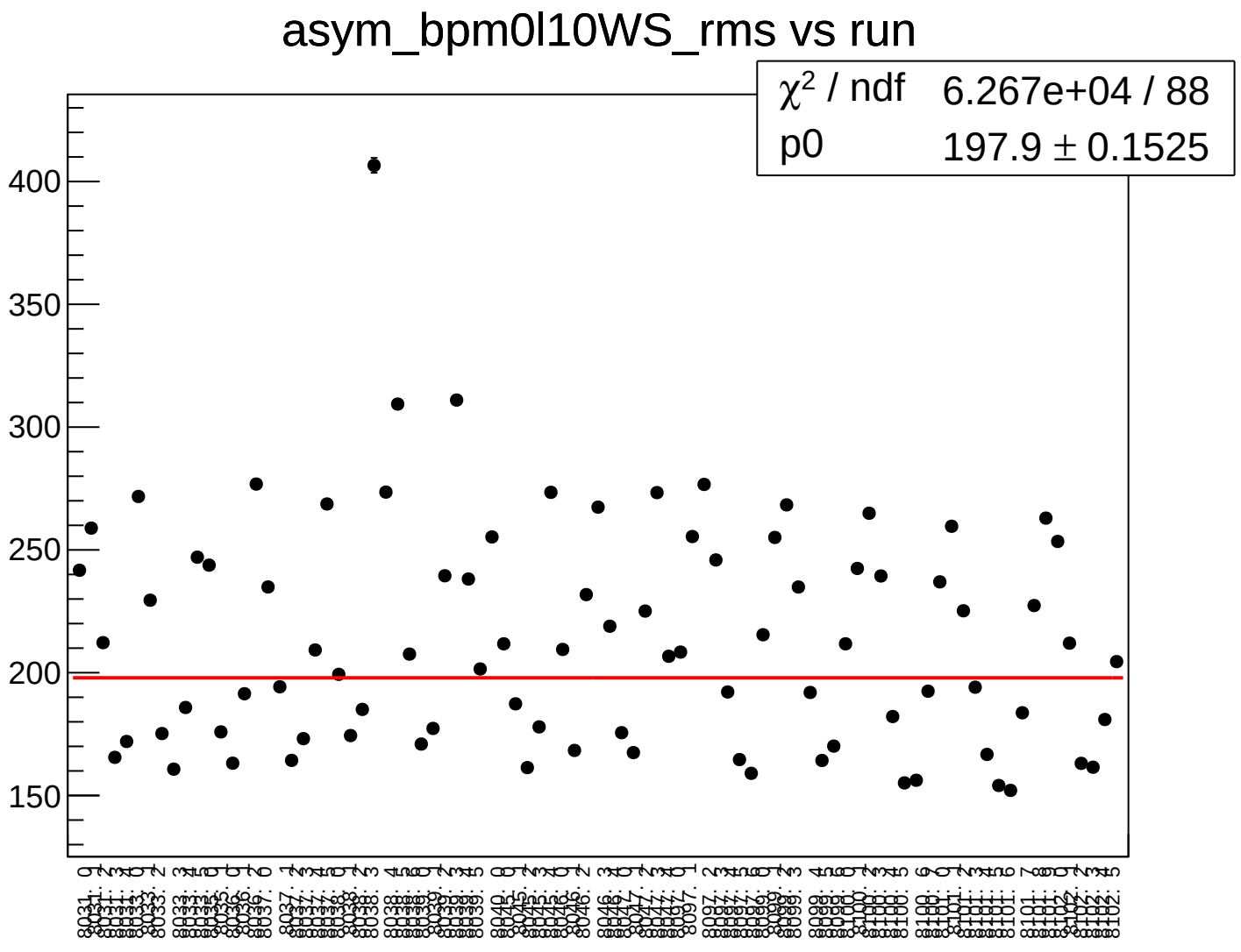

asym_bpm0l09WS_mean vs run
χ² / ndf 104.1 / 88
p0 −299.3 ± 1664
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −284
Std Dev 0
2
1
0
−1
−2

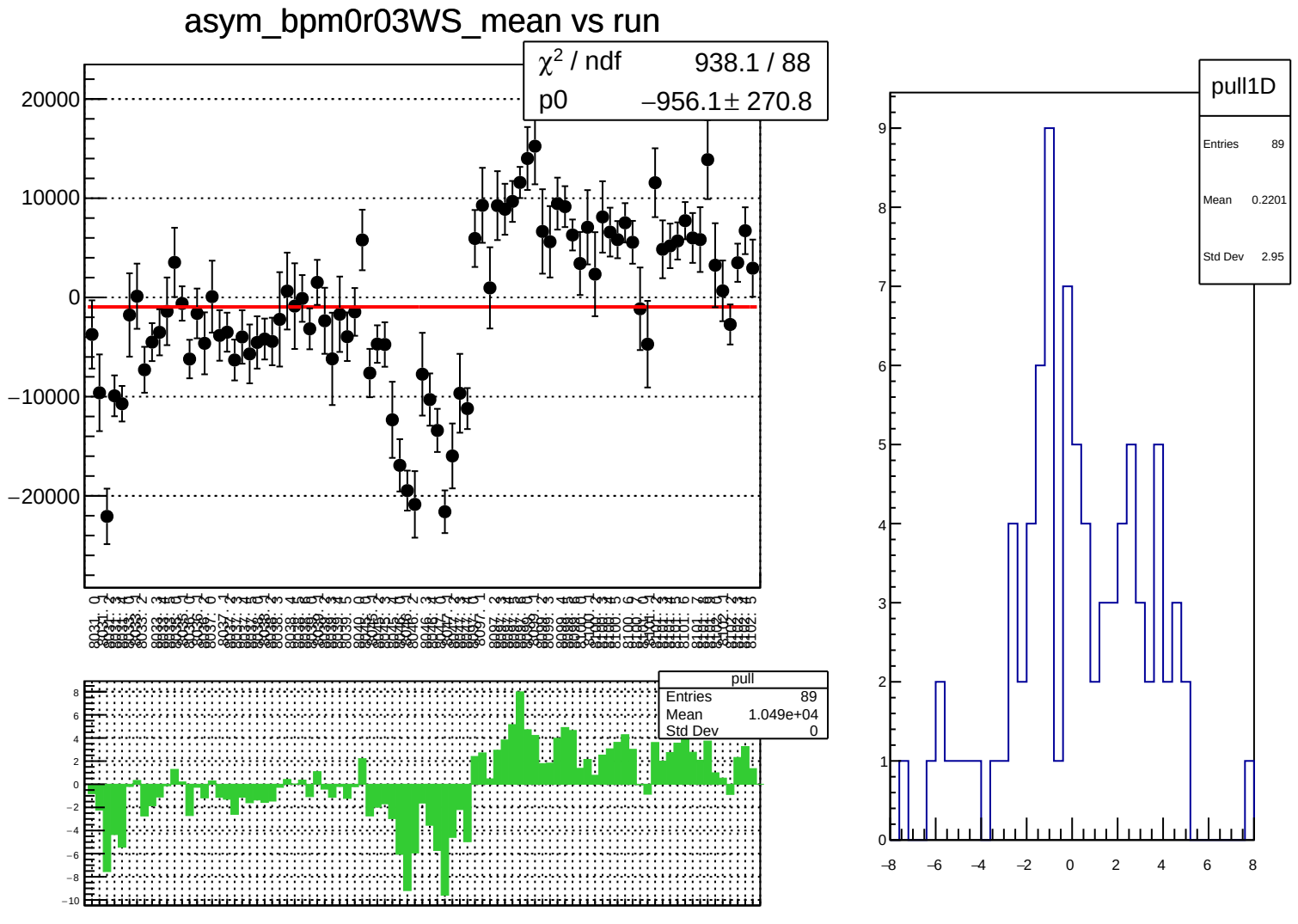

pull1D
Entries 89
Mean 0.007744
Std Dev 1.081
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

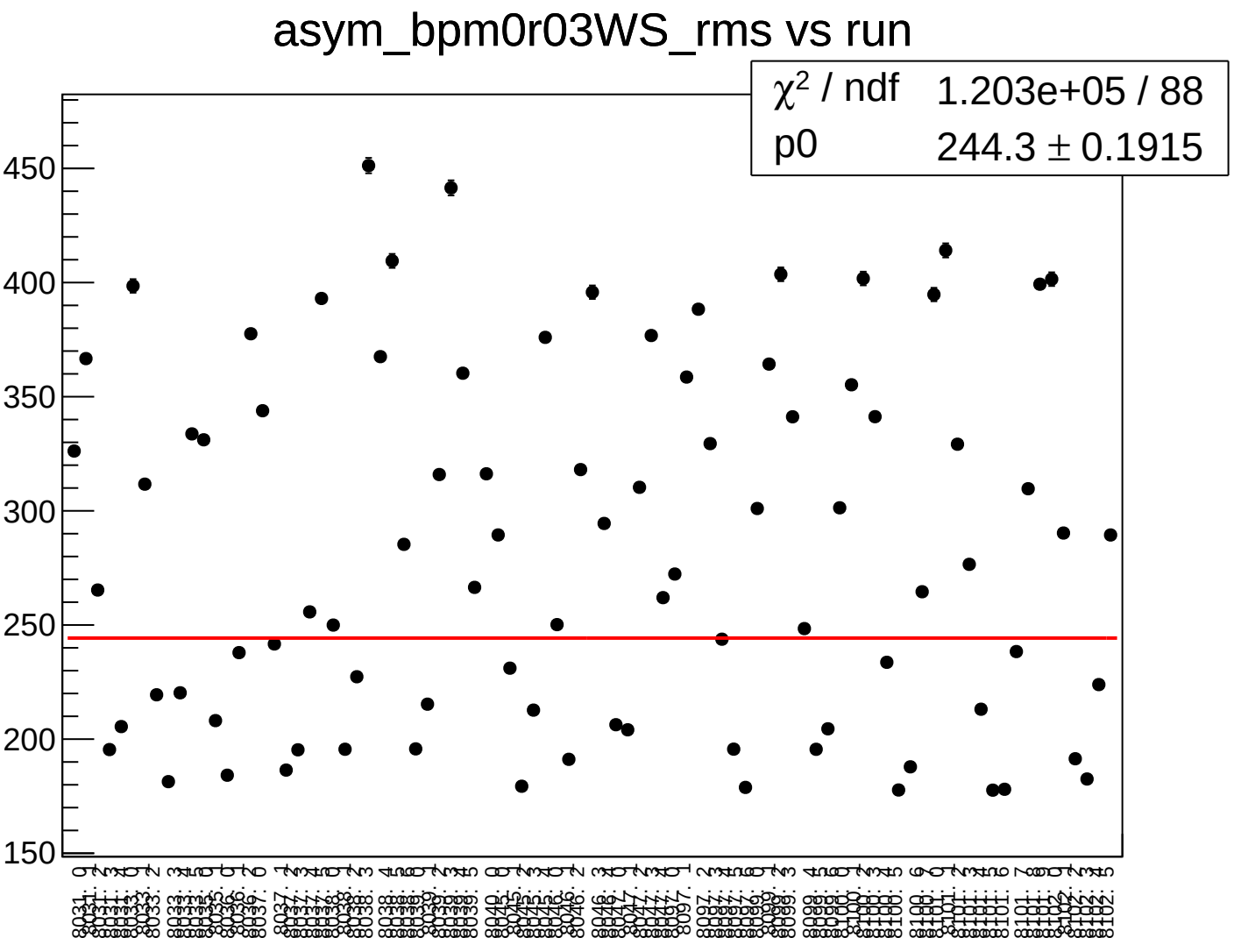

asym_bpm0l09WS_rms vs run
$\chi^2$ / ndf 8131 / 88
p0 1552 ± 1.177
2000
1900
1800
1700
1600
1500
1400
1300

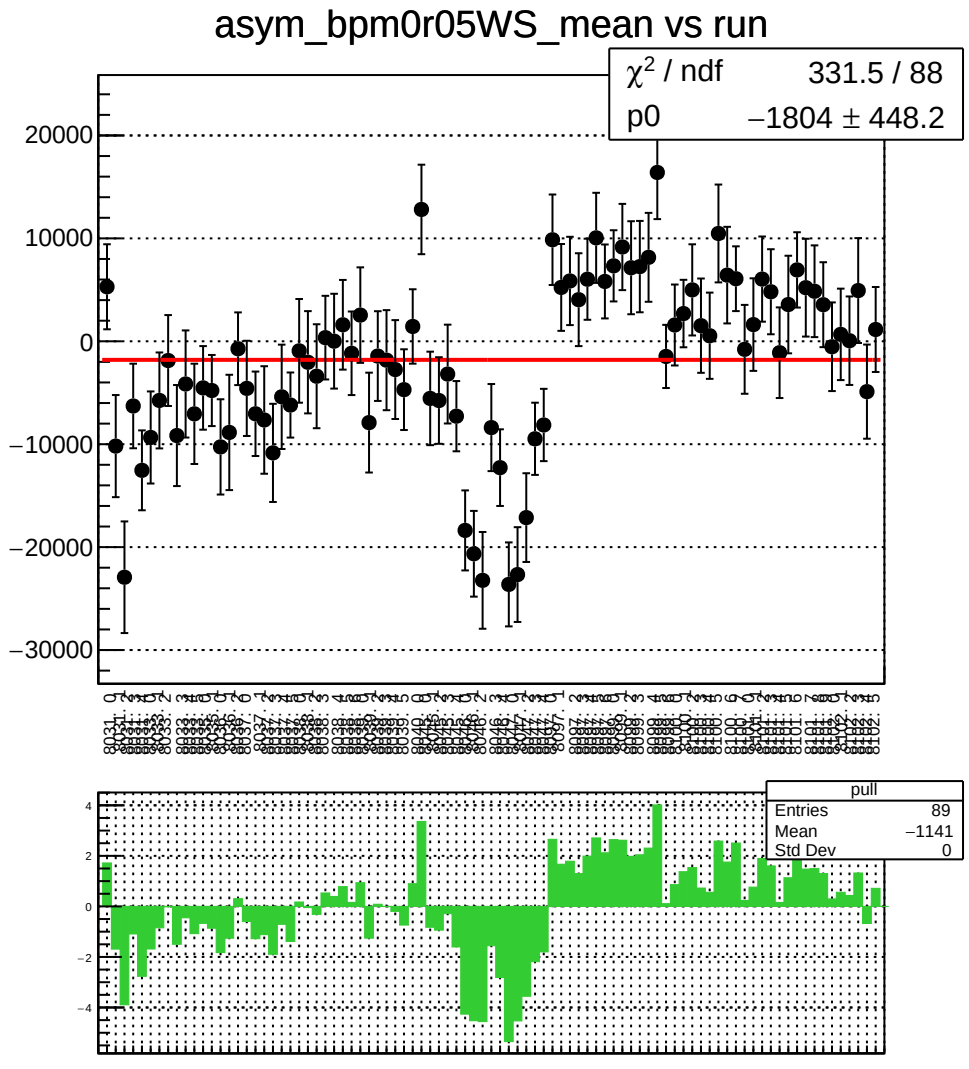

asym_bpm0l10WS_mean vs run
χ² / ndf 1571 / 88
p0 −1085 ± 215.6
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −2226
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8
−10
−12

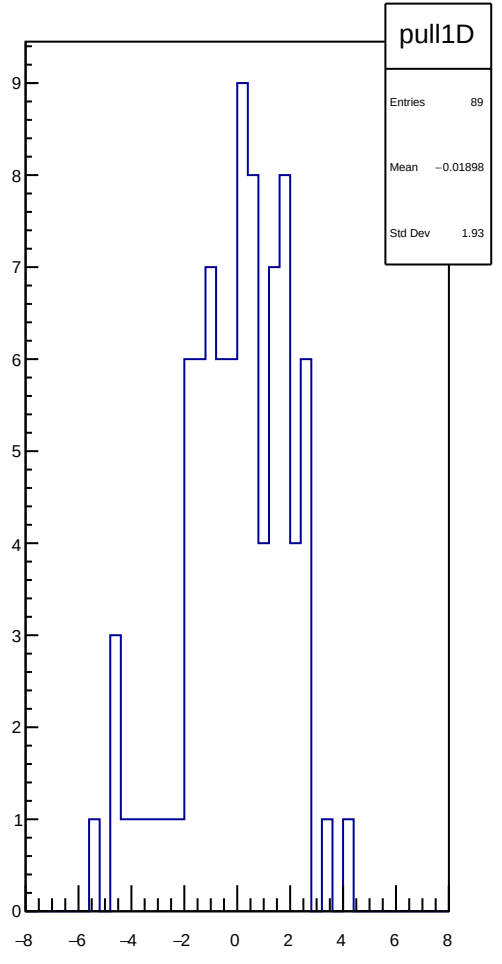

pull1D
Entries 89
Mean 0.4593
Std Dev 3.438
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

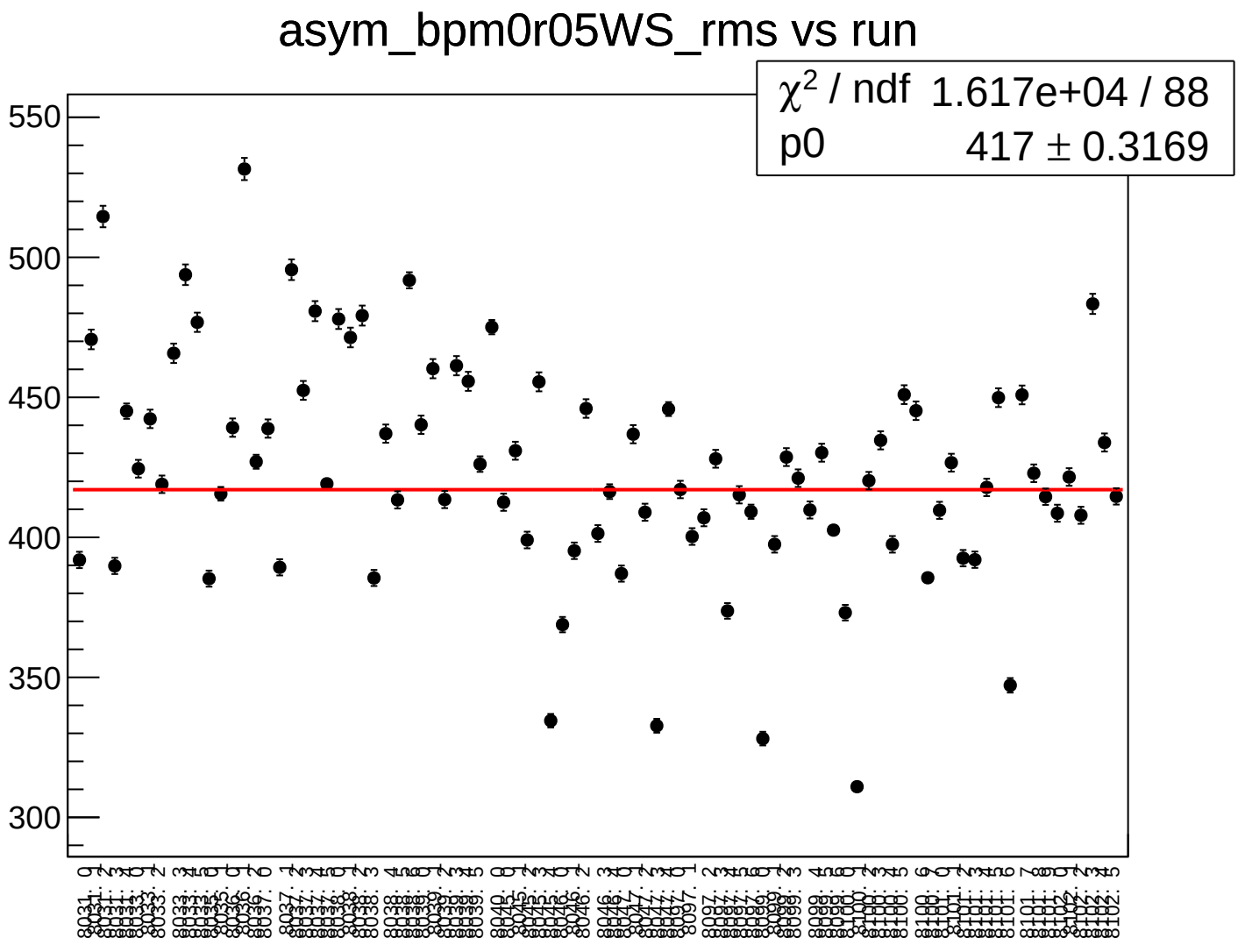

asym_bpm0l10WS_rms vs run
χ² / ndf 6.267e+04 / 88
p0 197.9 ± 0.1525
400
350
300
250
200
150

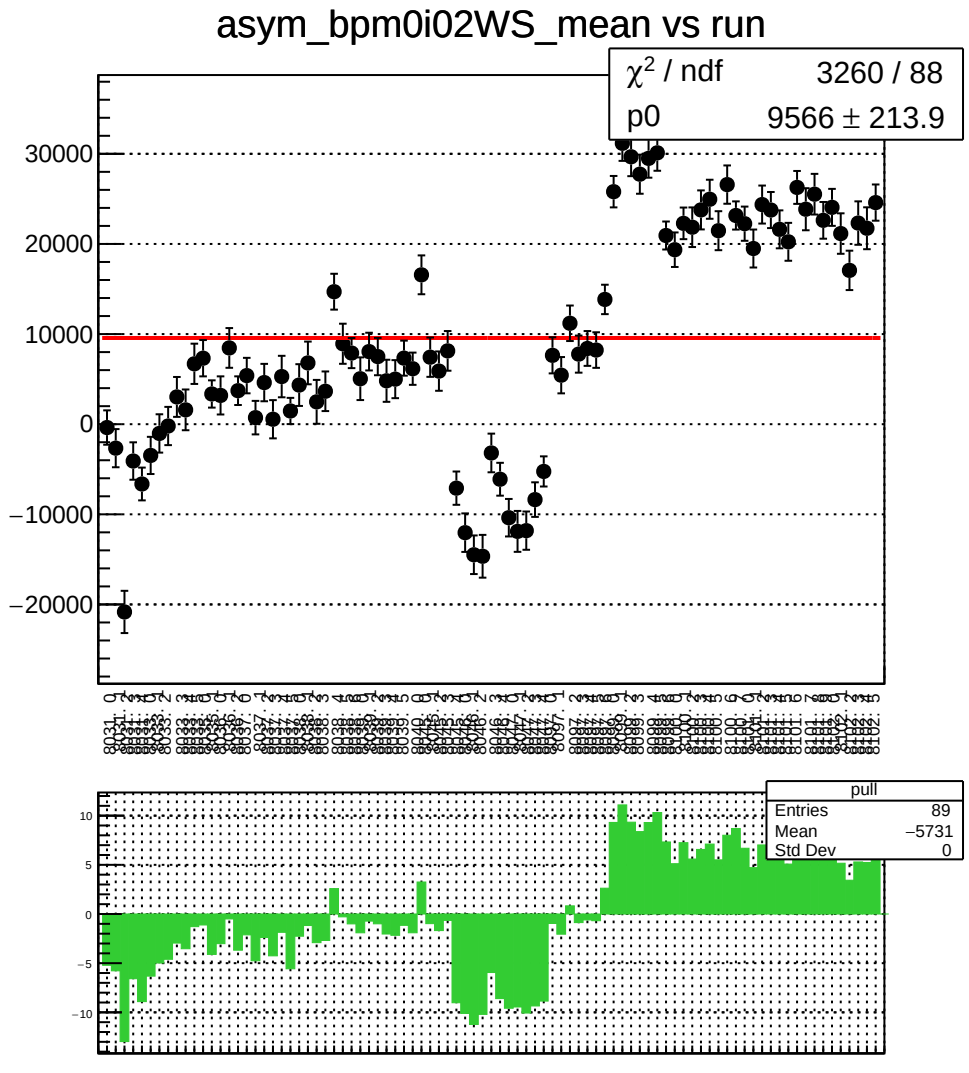

asym_bpm0r03WS_mean vs run
χ² / ndf 938.1 / 88
p0 −956.1 ± 270.8
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 1.049e+04
Std Dev 0
pull1D
Entries 89
Mean 0.2201
Std Dev 2.95

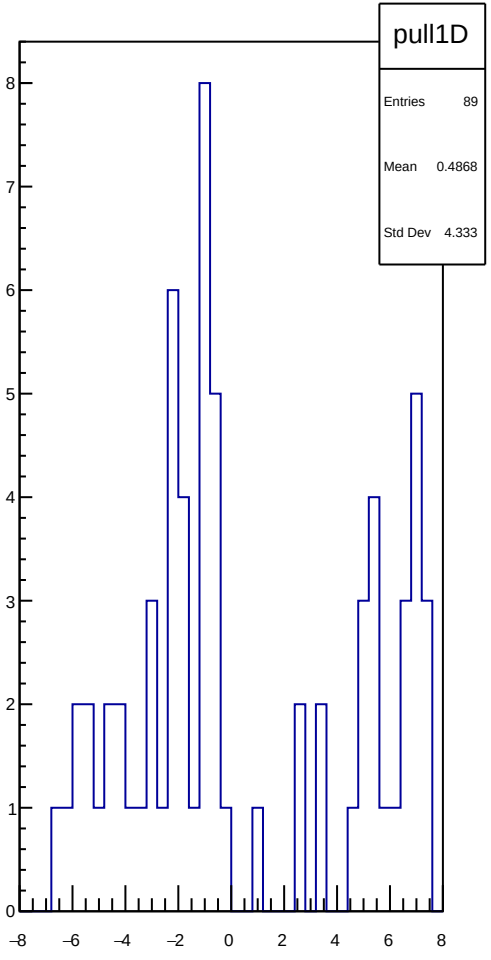

asym_bpm0r03WS_rms vs run
χ² / ndf 1.203e+05 / 88
p0 244.3 ± 0.1915
450
400
350
300
250
200
150

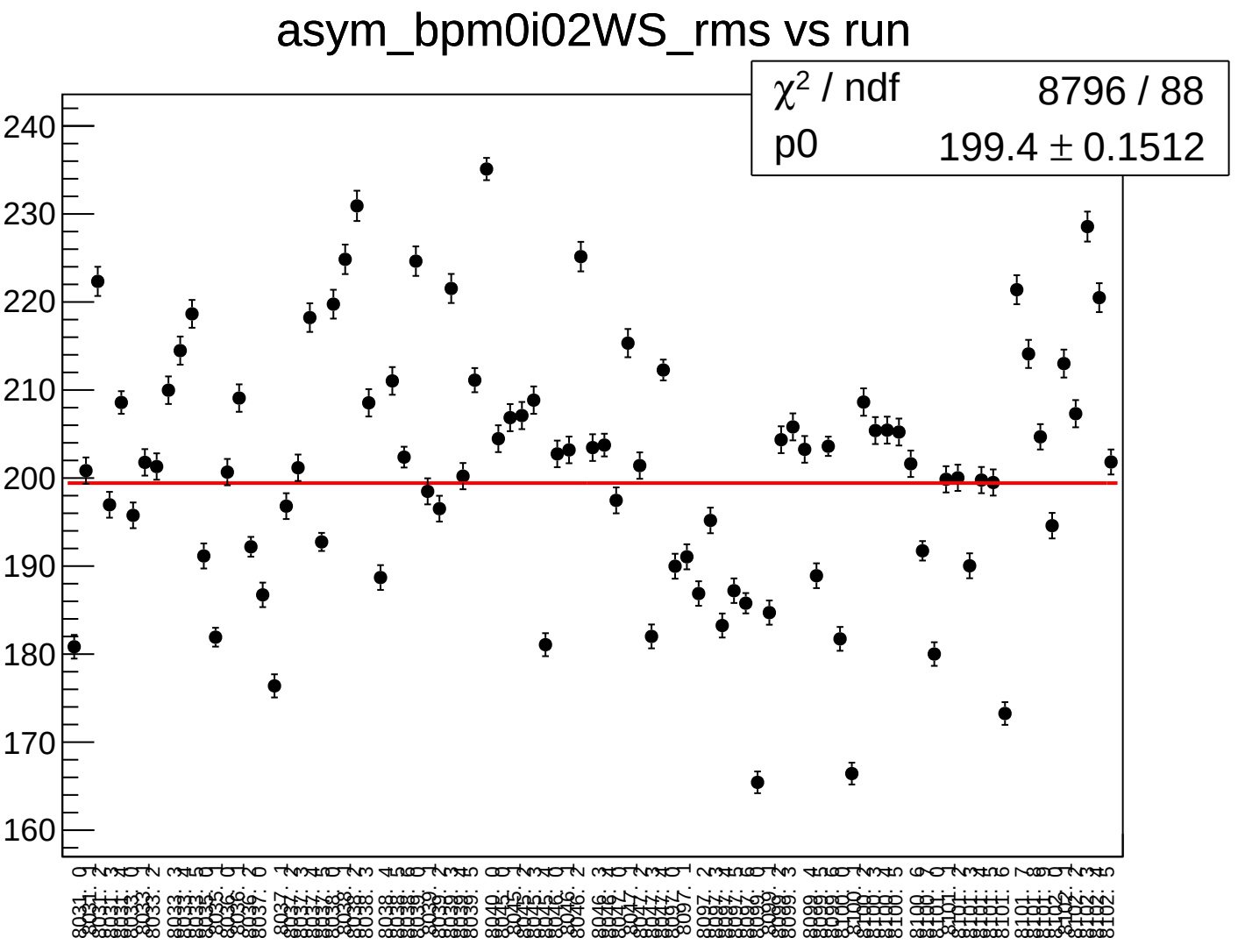

asym_bpm0r05WS_mean vs run
χ² / ndf 331.5 / 88
p0 −1804 ± 448.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −1141
Std Dev 0
4
2
0
−2
−4

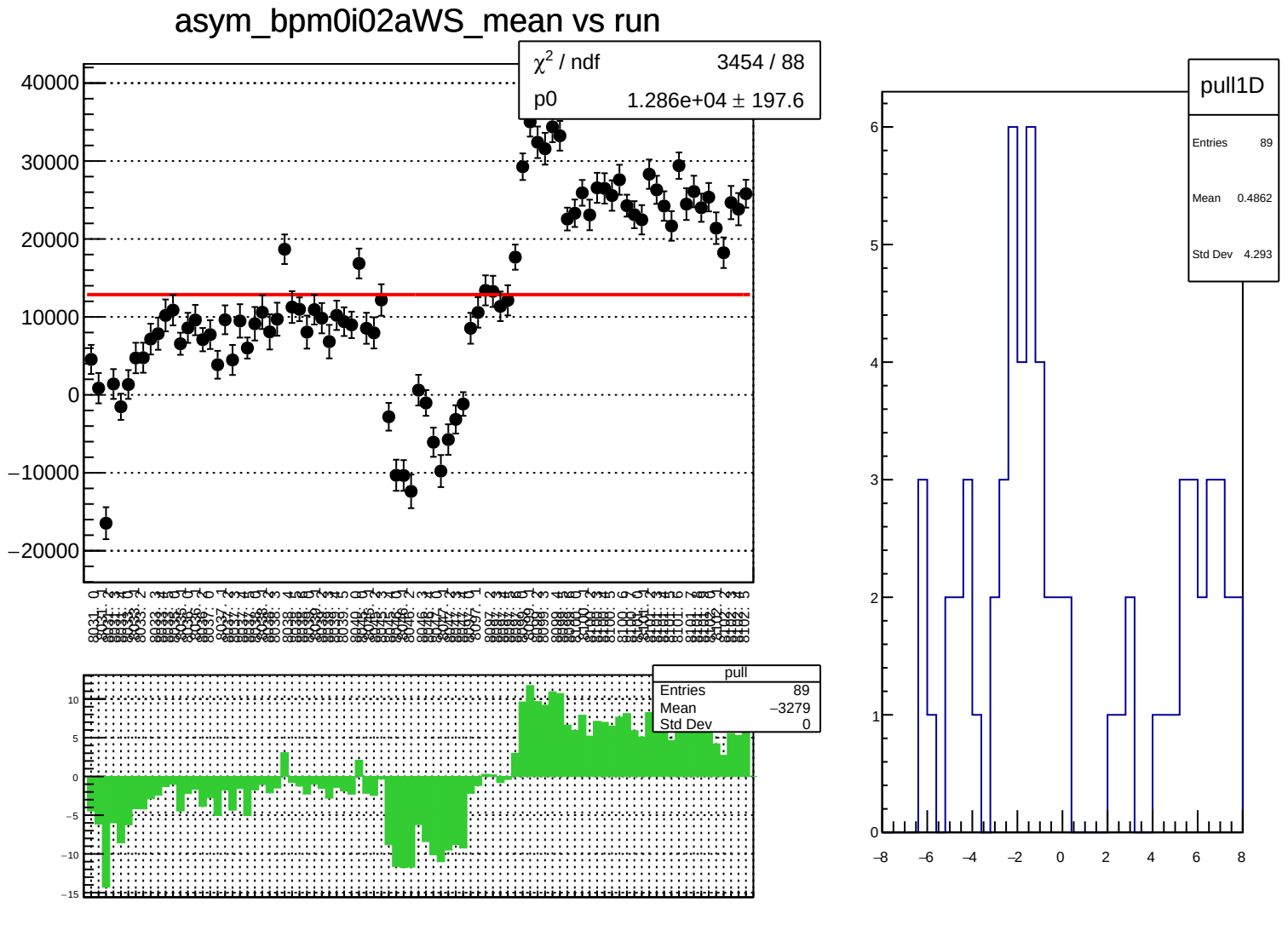

pull1D
Entries 89
Mean −0.01898
Std Dev 1.93
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

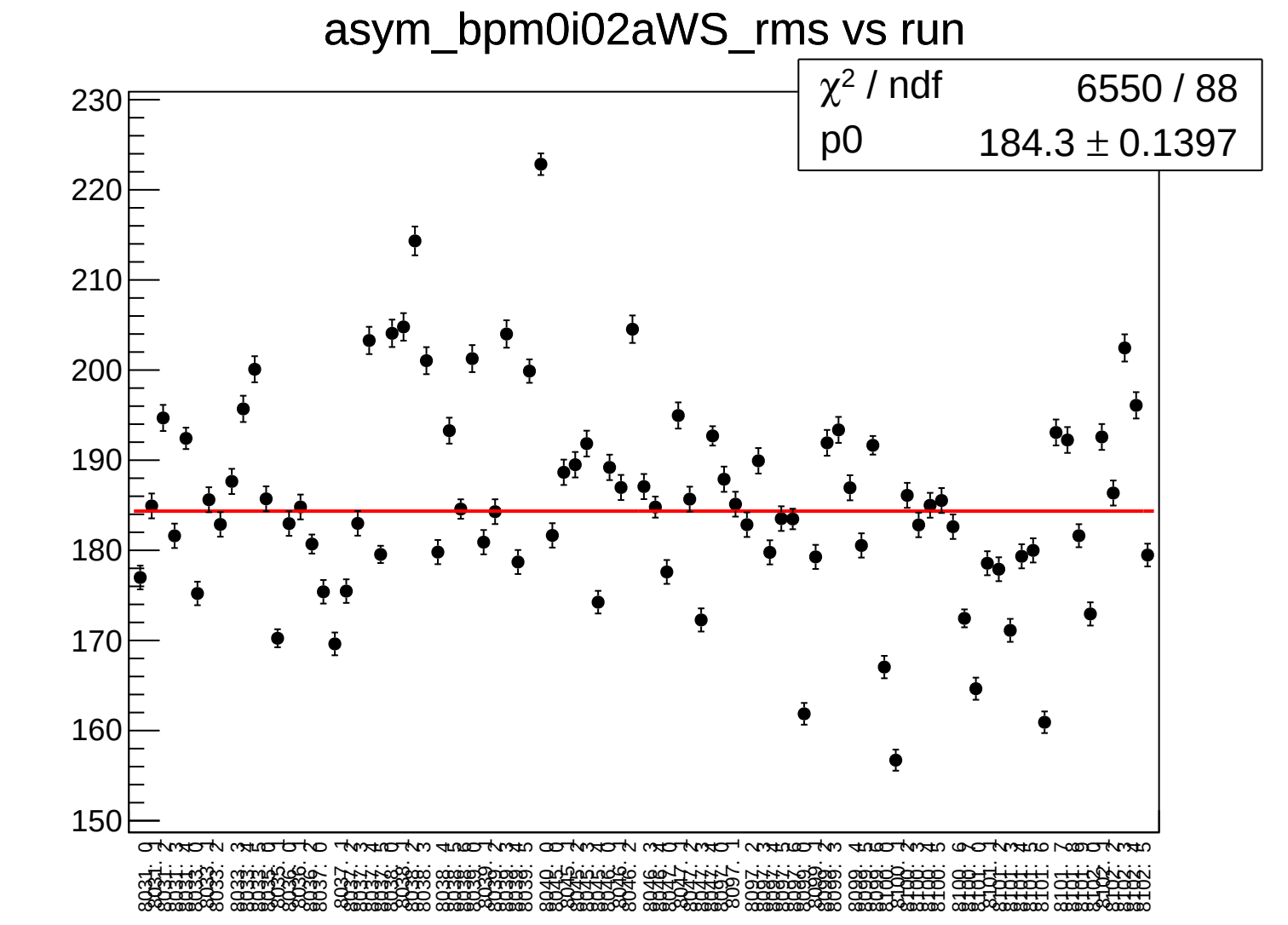

asym_bpm0r05WS_rms vs run
χ² / ndf 1.617e+04 / 88
p0 417 ± 0.3169
550
500
450
400
350
300

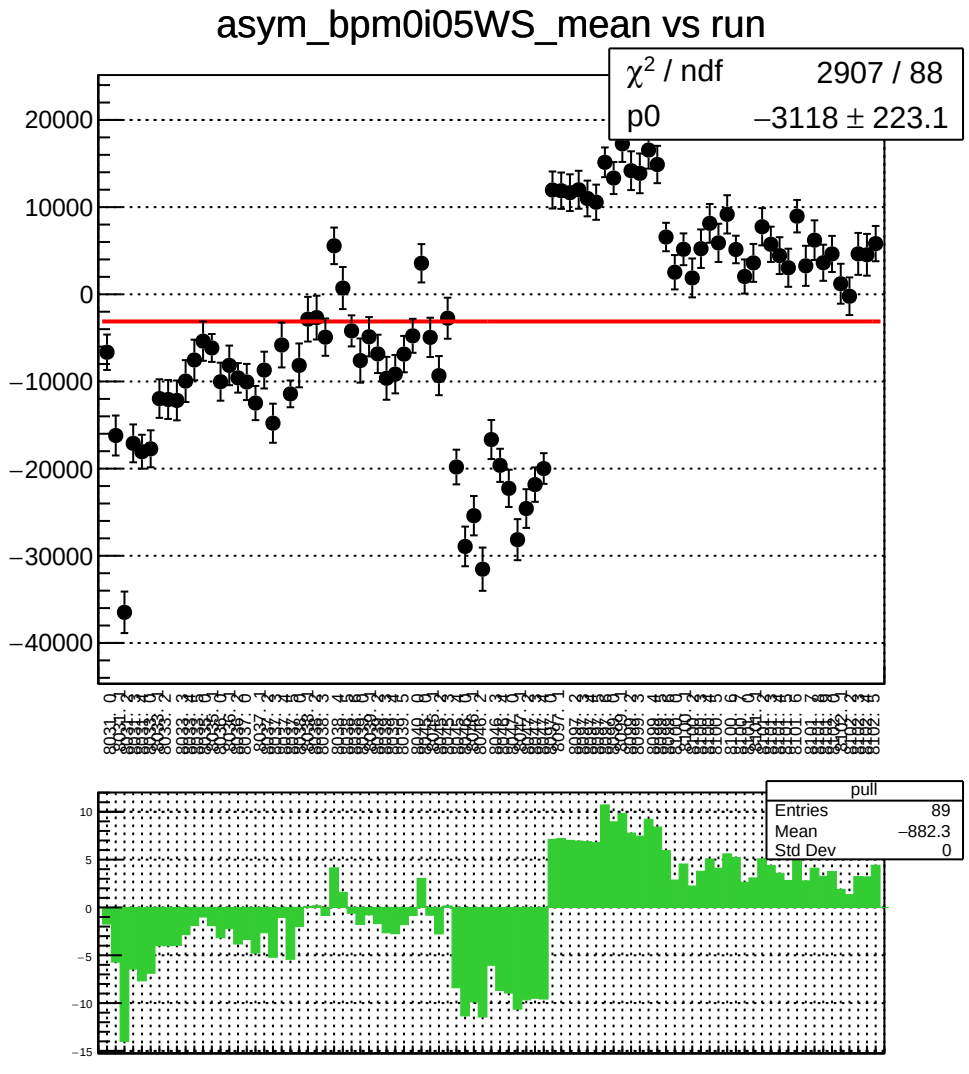

asym_bpm0i02WS_mean vs run
χ² / ndf 3260 / 88
p0 9566 ± 213.9
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −5731
Std Dev 0
10
5
0
−5
−10

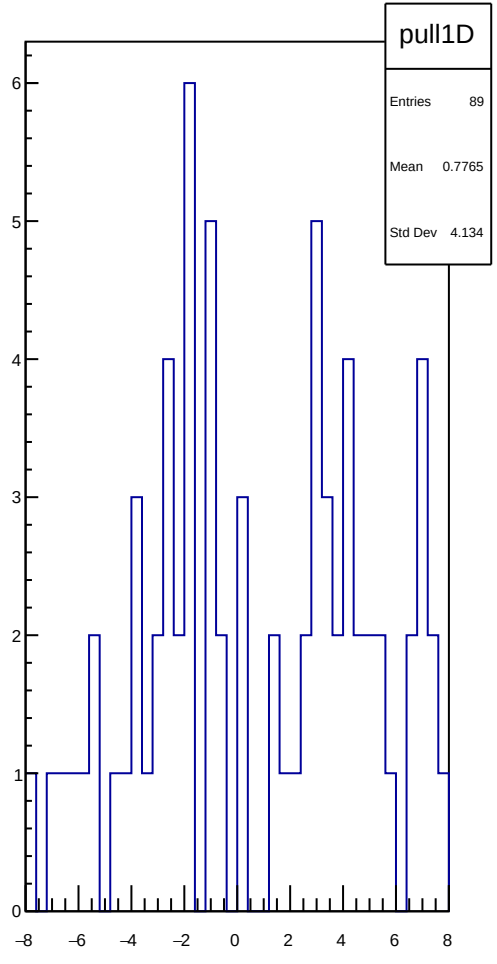

pull1D
Entries 89
Mean 0.4868
Std Dev 4.333
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

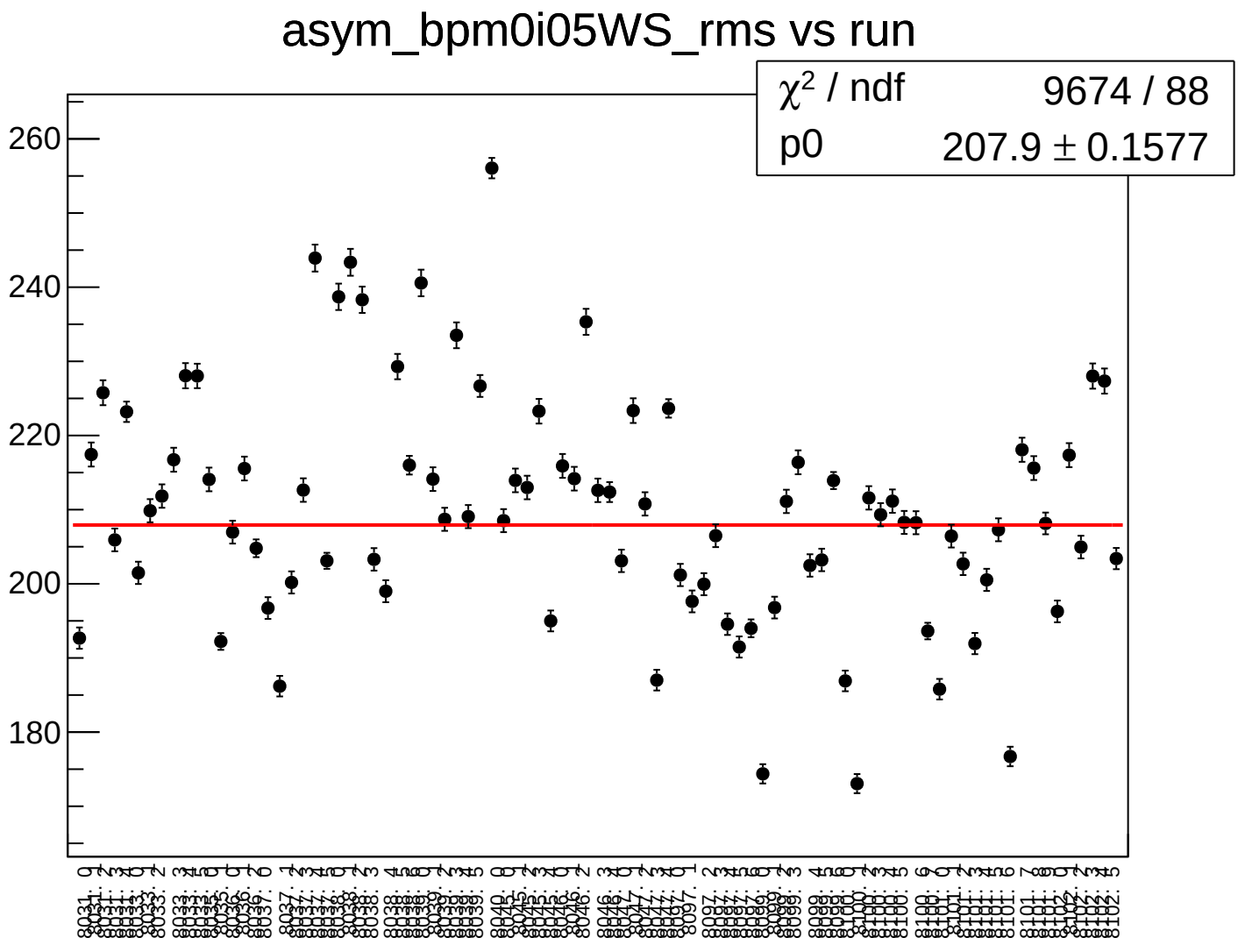

asym_bpm0i02WS_rms vs run
χ² / ndf 8796 / 88
p0 199.4 ± 0.1512
240
230
220
210
200
190
180
170
160

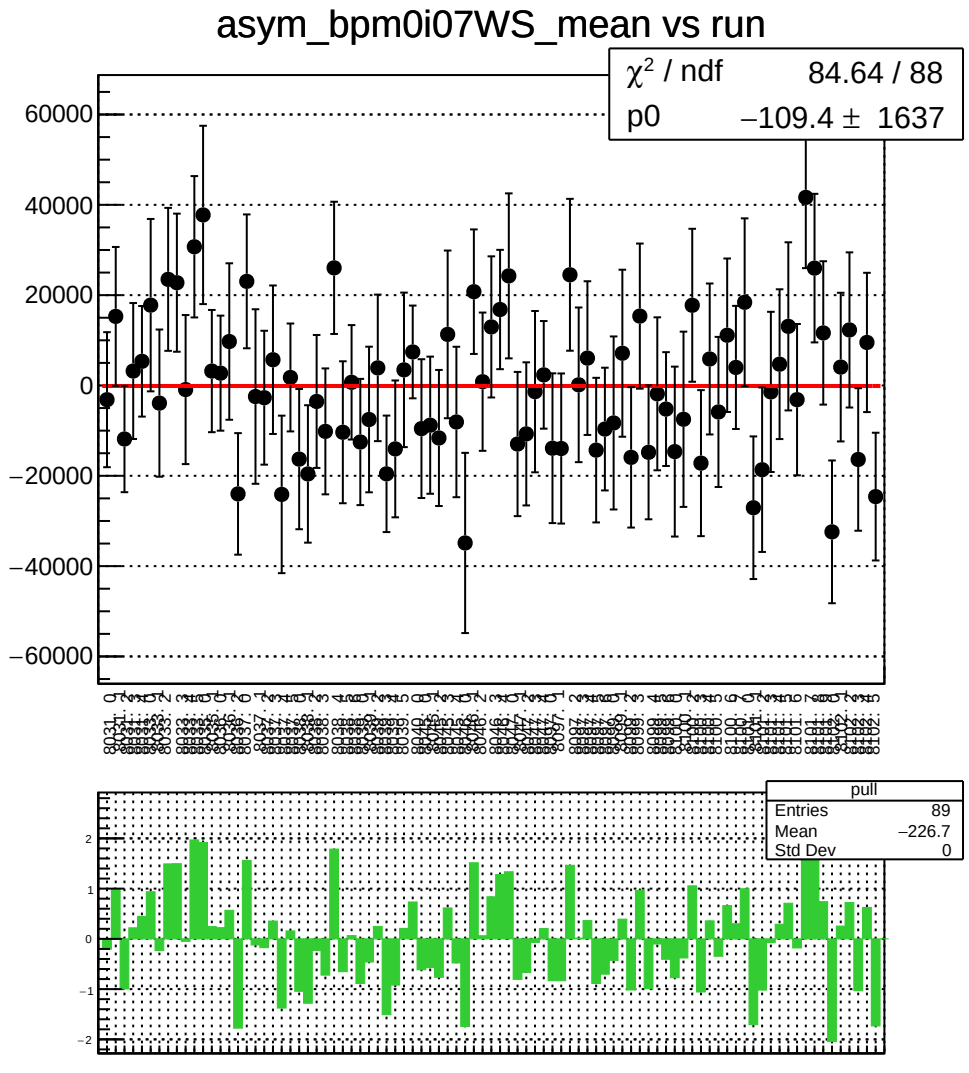

asym_bpm0i02aWS_mean vs run
χ² / ndf 3454 / 88
p0 1.286e+04 ± 197.6
pull
Entries 89
Mean −3279
Std Dev 0
pull1D
Entries 89
Mean 0.4862
Std Dev 4.293

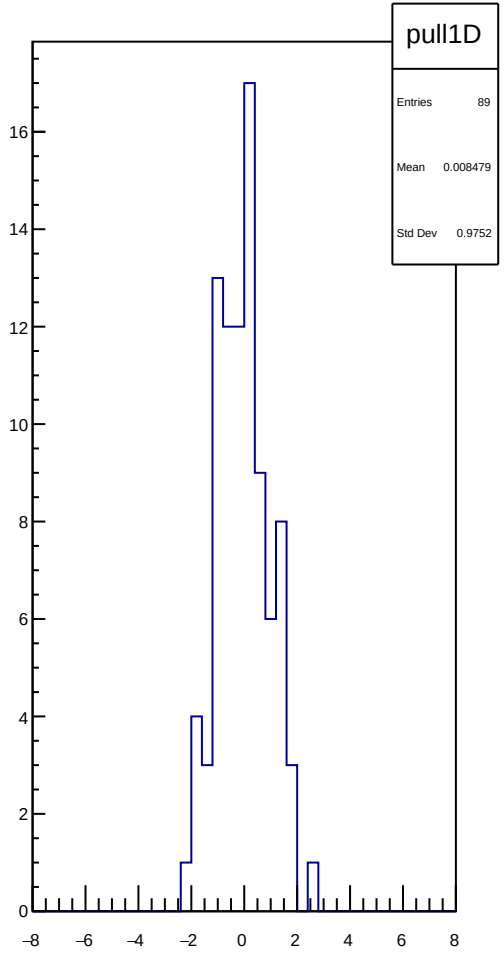

asym_bpm0i02aWS_rms vs run
χ² / ndf 6550 / 88
p0 184.3 ± 0.1397
230
220
210
200
190
180
170
160
150

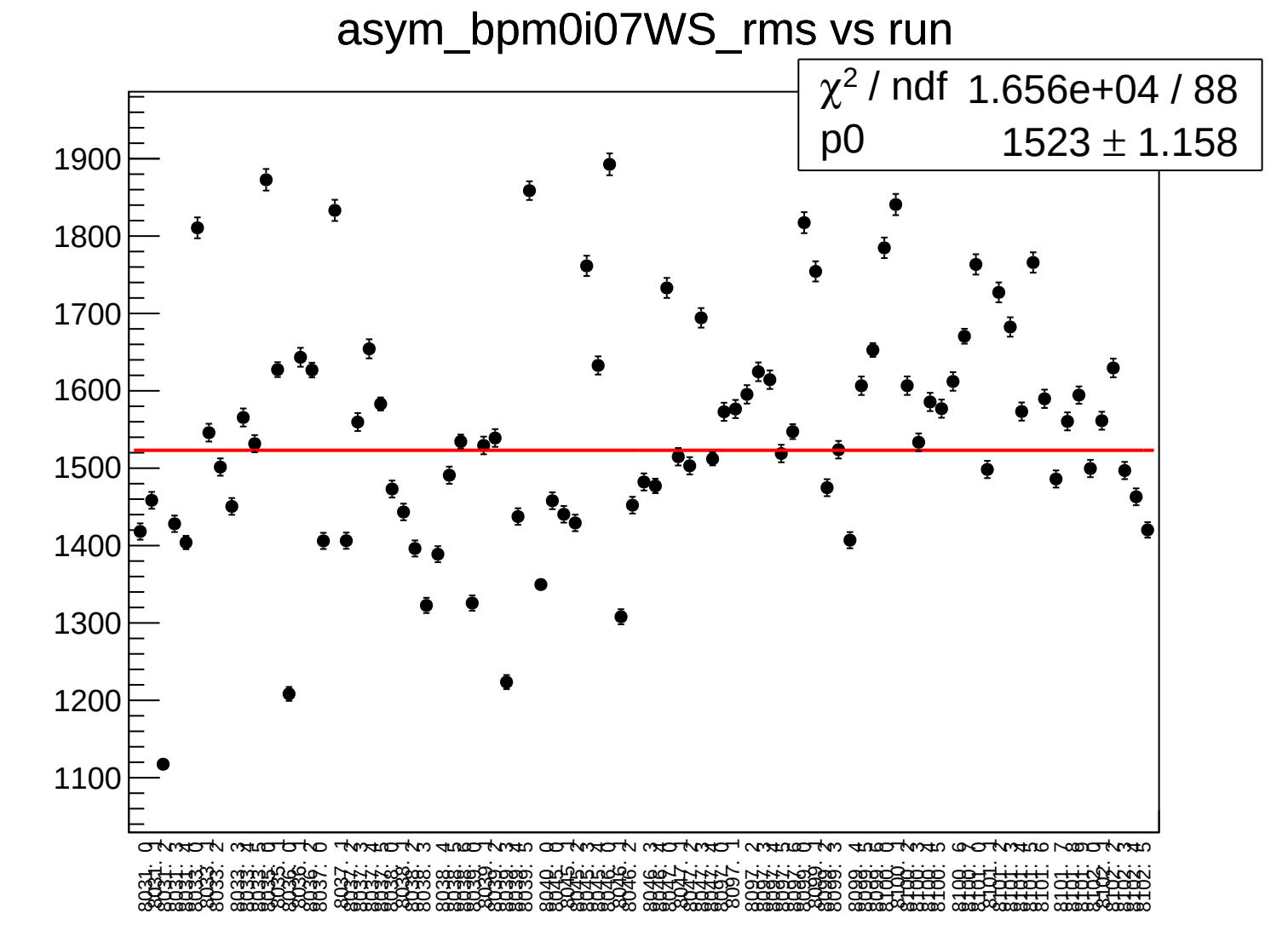

asym_bpm0i05WS_mean vs run
χ² / ndf 2907 / 88
p0 −3118 ± 223.1
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean −882.3
Std Dev 0
10
5
0
−5
−10
−15

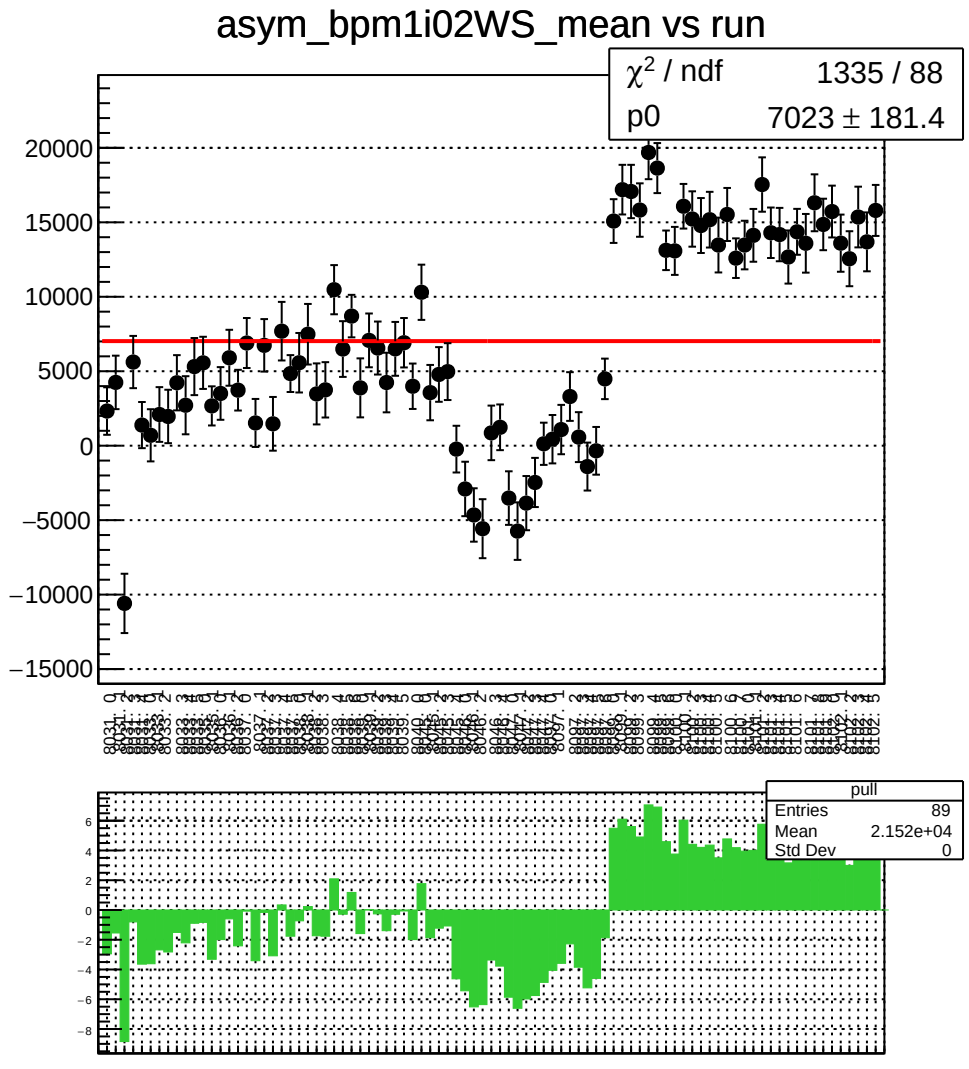

pull1D
Entries 89
Mean 0.7765
Std Dev 4.134
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

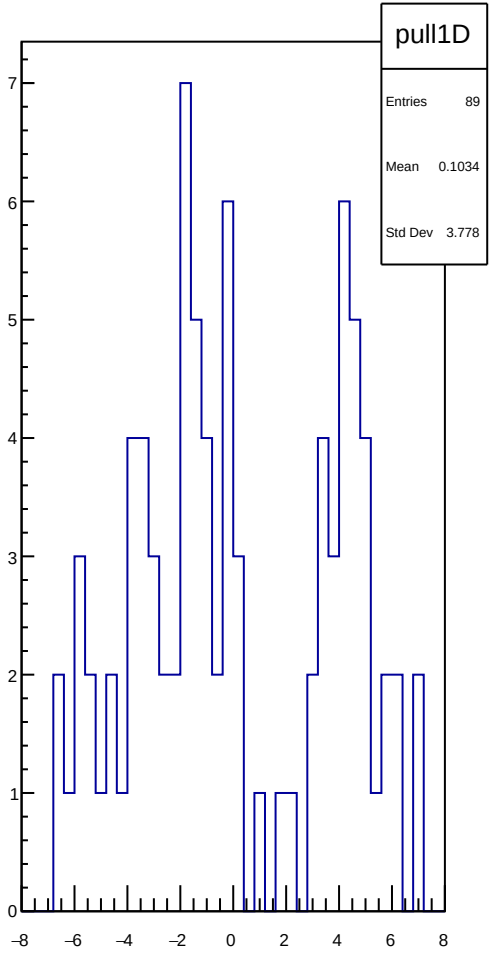

asym_bpm0i05WS_rms vs run
χ² / ndf 9674 / 88
p0 207.9 ± 0.1577
260
240
220
200
180

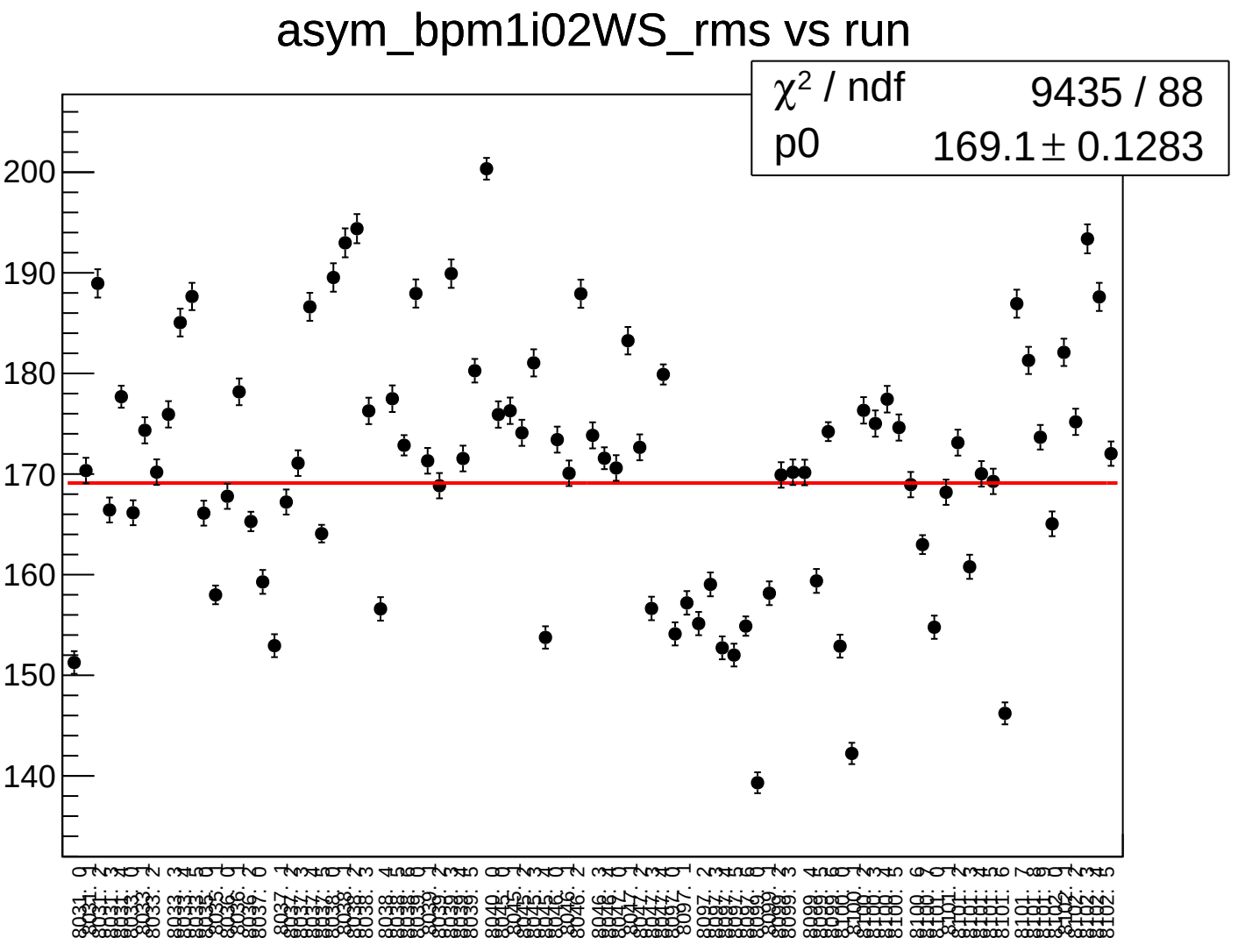

asym_bpm0i07WS_mean vs run
χ² / ndf 84.64 / 88
p0 −109.4 ± 1637
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −226.7
Std Dev 0
2
1
0
−1
−2

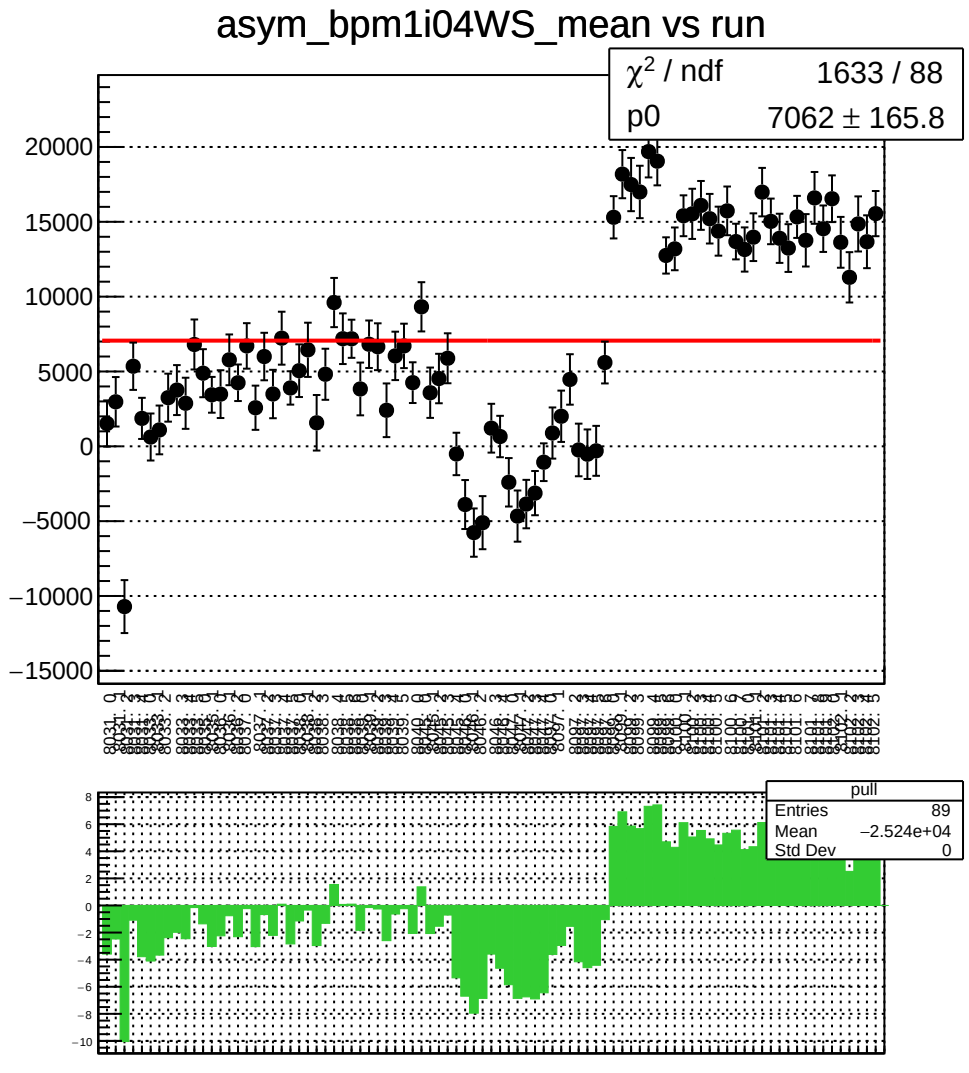

pull1D
Entries 89
Mean 0.008479
Std Dev 0.9752
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

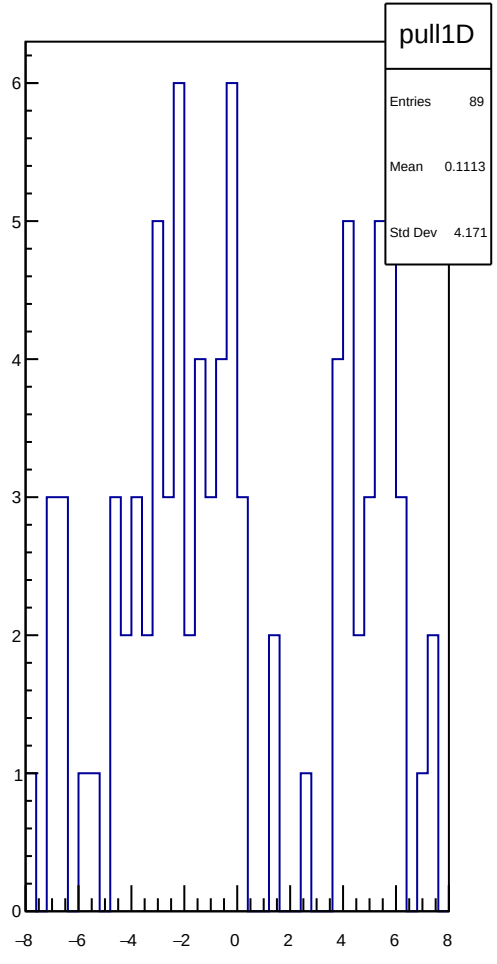

asym_bpm0i07WS_rms vs run
χ² / ndf 1.656e+04 / 88
p0 1523 ± 1.158
1900
1800
1700
1600
1500
1400
1300
1200
1100

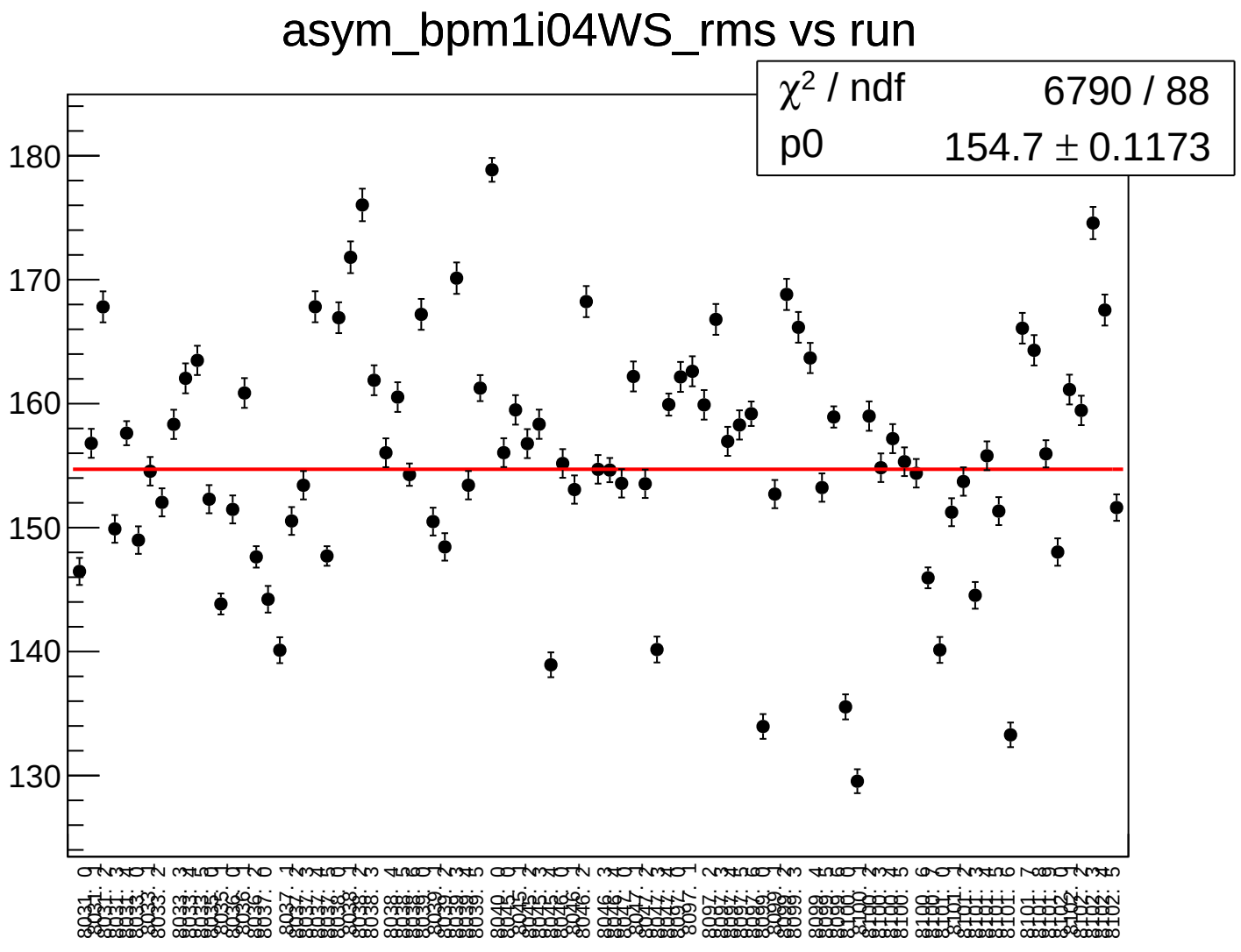

asym_bpm1i02WS_mean vs run
χ² / ndf 1335 / 88
p0 7023 ± 181.4
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 2.152e+04
Std Dev 0
6
4
2
0
−2
−4
−6
−8

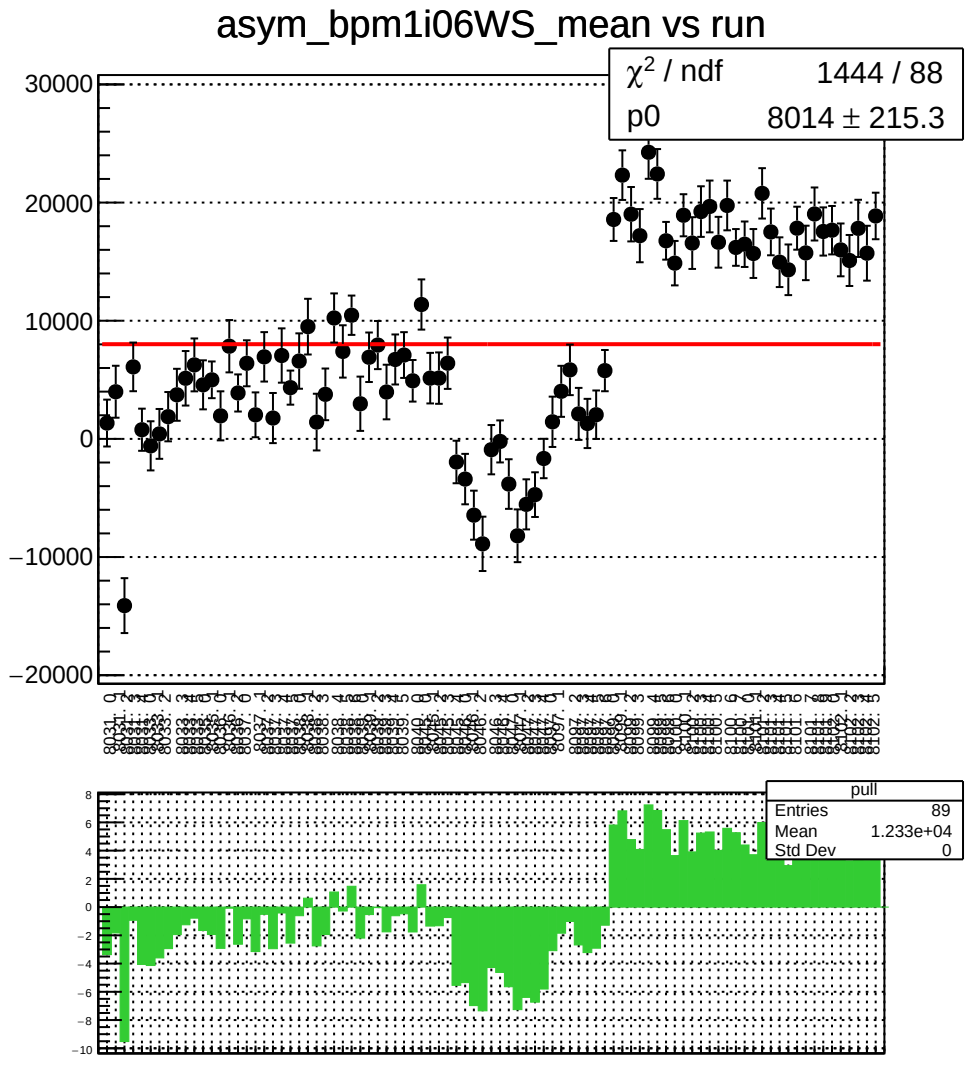

pull1D
Entries 89
Mean 0.1034
Std Dev 3.778
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

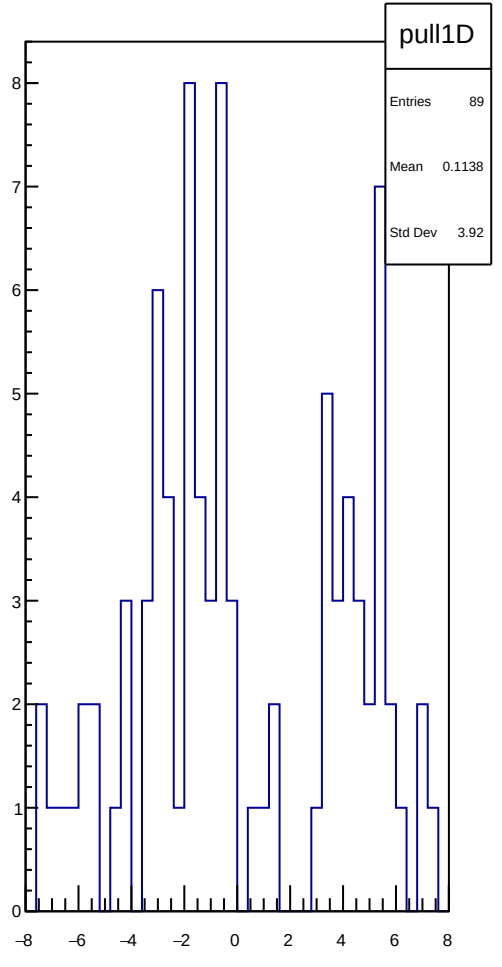

asym_bpm1i02WS_rms vs run
χ² / ndf 9435 / 88
p0 169.1 ± 0.1283
200
190
180
170
160
150
140

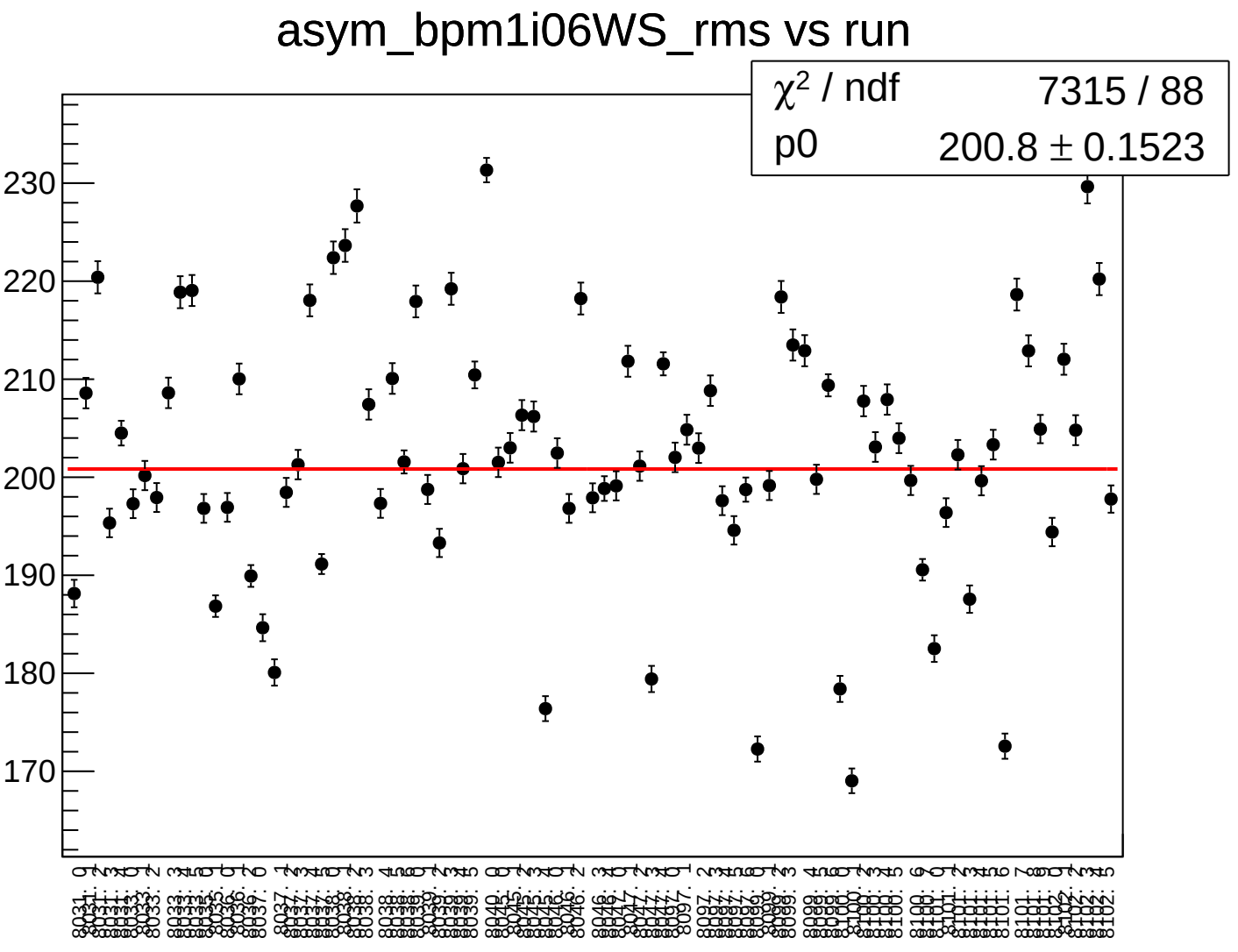

asym_bpm1i04WS_mean vs run
χ² / ndf 1633 / 88
p0 7062 ± 165.8
pull
Entries 89
Mean −2.524e+04
Std Dev 0

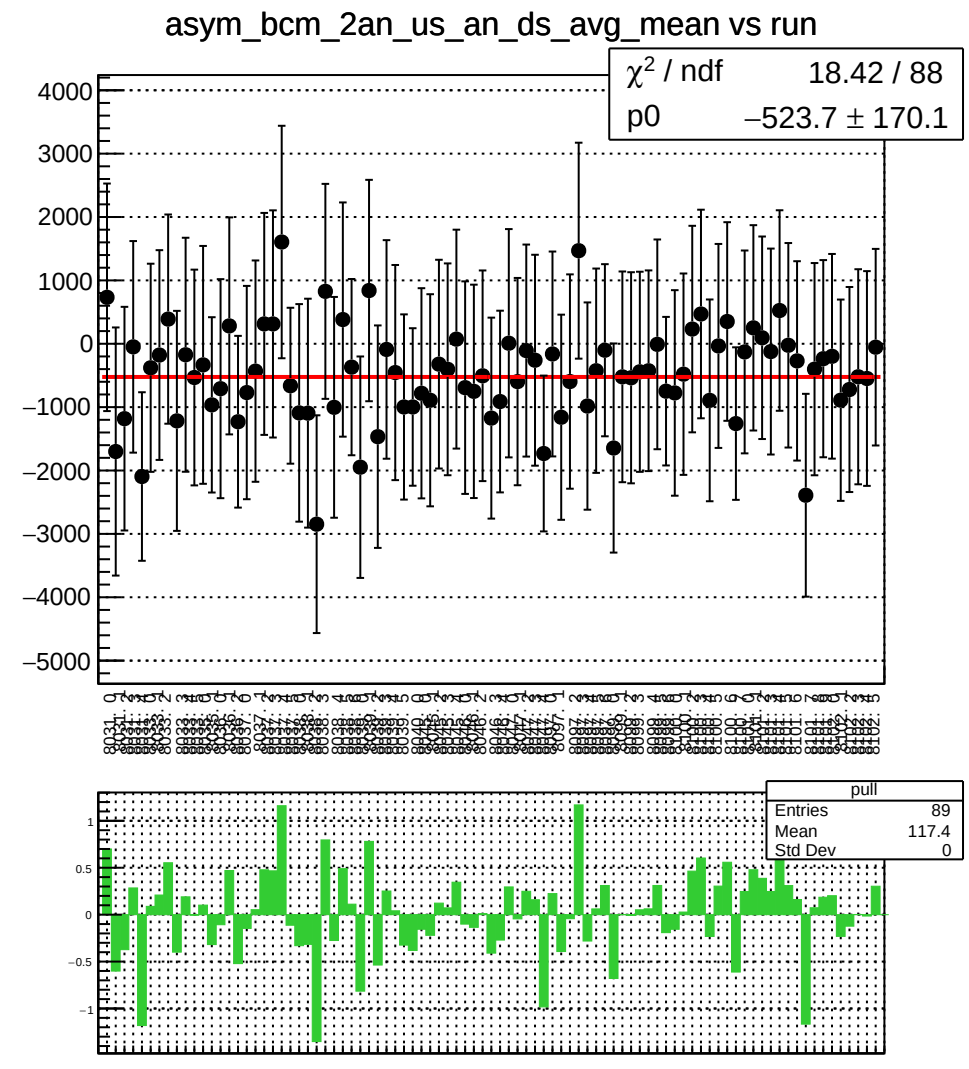

pull1D
Entries 89
Mean 0.1113
Std Dev 4.171

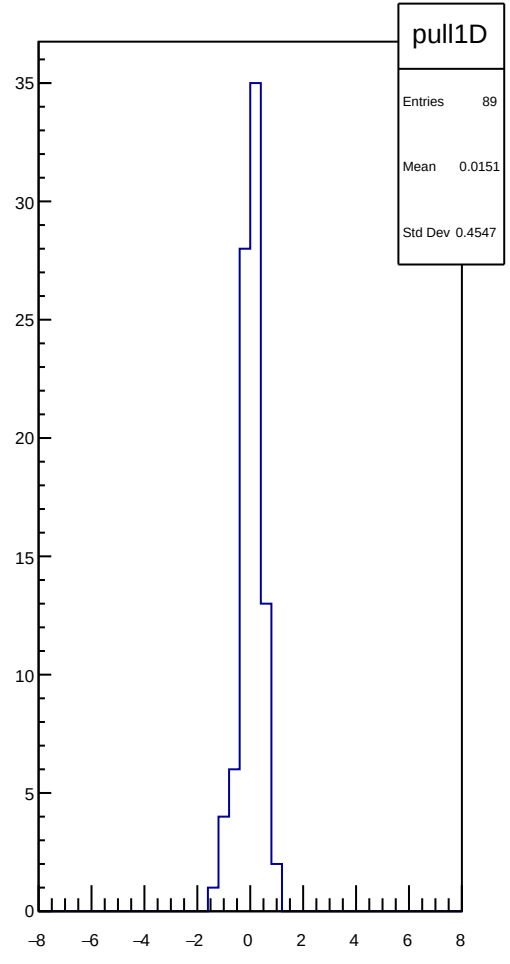

asym_bpm1i04WS_rms vs run
χ² / ndf 6790 / 88
p0 154.7 ± 0.1173
180
170
160
150
140
130

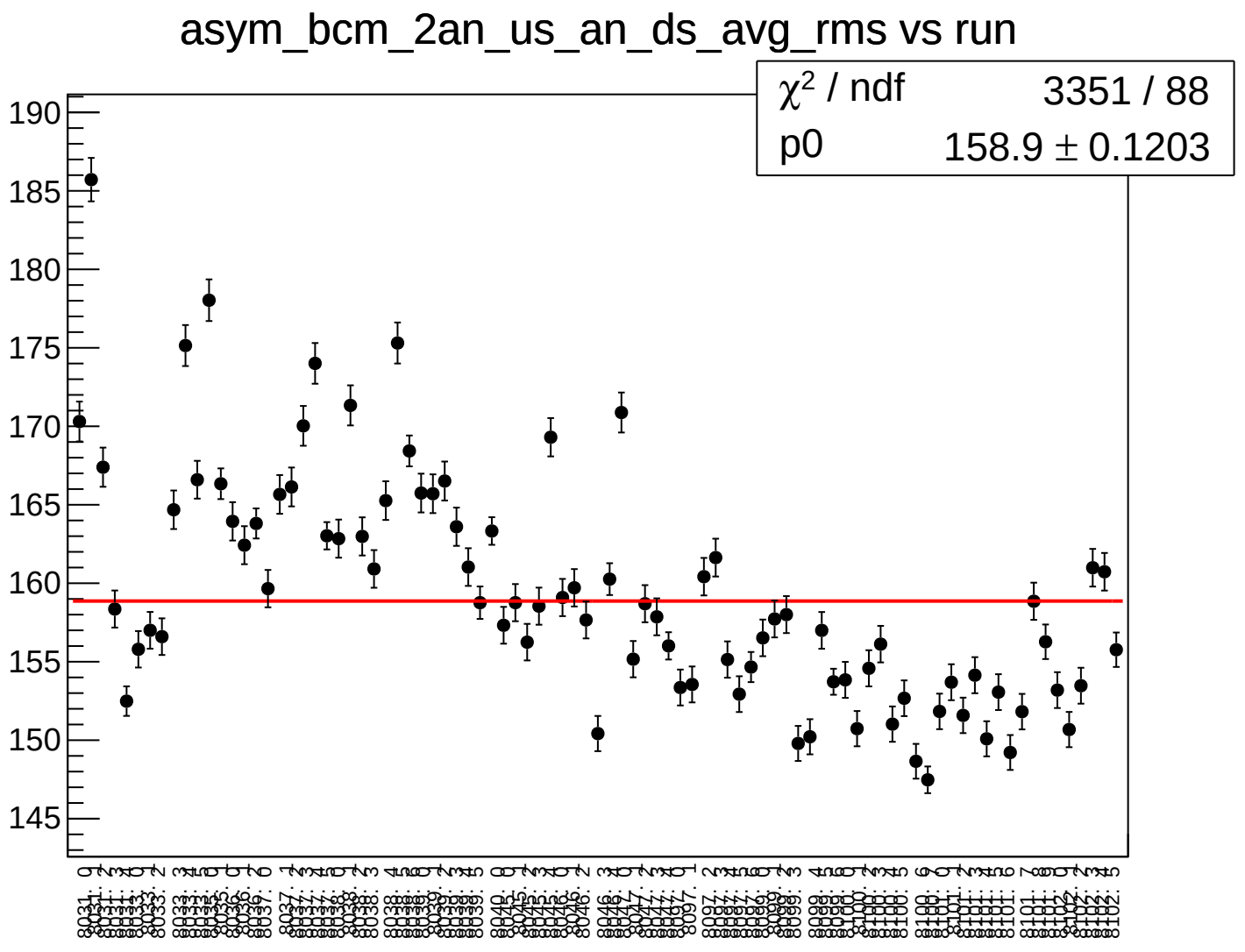

asym_bpm1i06WS_mean vs run
χ² / ndf 1444 / 88
p0 8014 ± 215.3
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 1.233e+04
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8
−10

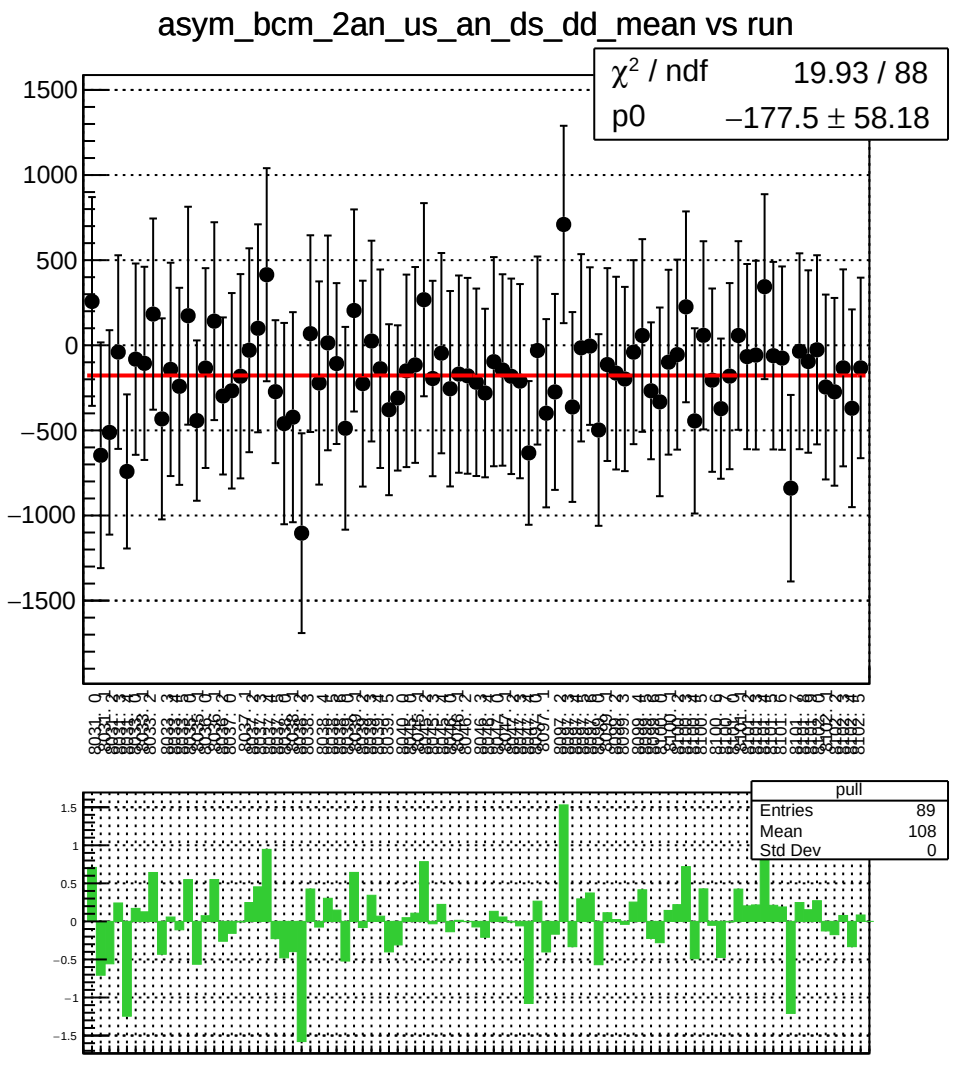

pull1D
Entries 89
Mean 0.1138
Std Dev 3.92
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

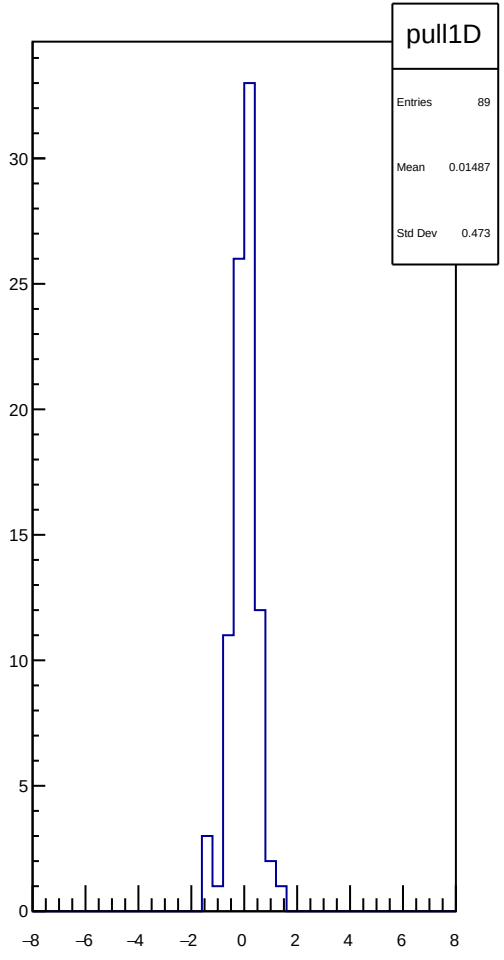

asym_bpm1i06WS_rms vs run
χ² / ndf 7315 / 88
p0 200.8 ± 0.1523
230
220
210
200
190
180
170

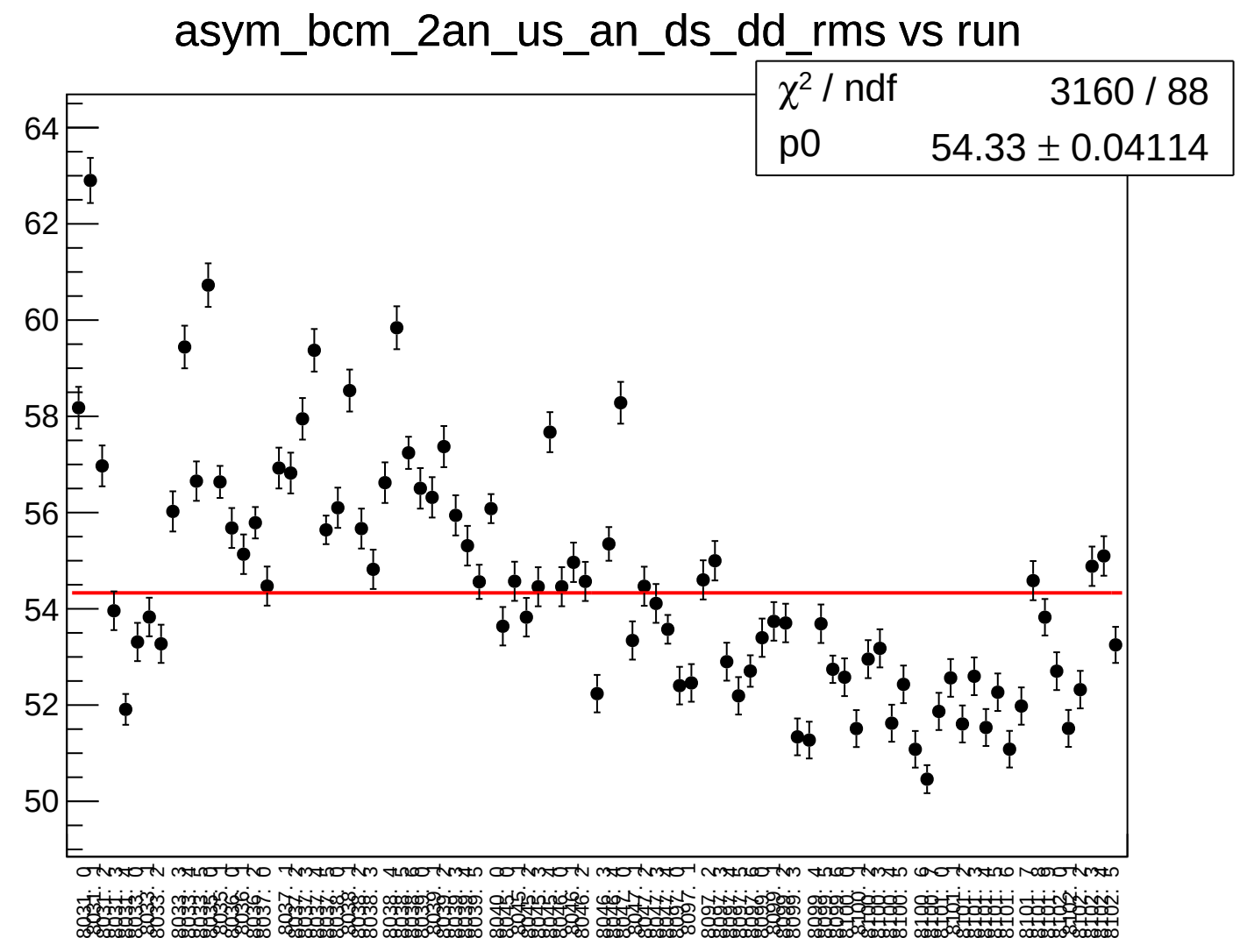

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 18.42 / 88
p0 −523.7 ± 170.1
pull
Entries 89
Mean 117.4
Std Dev 0

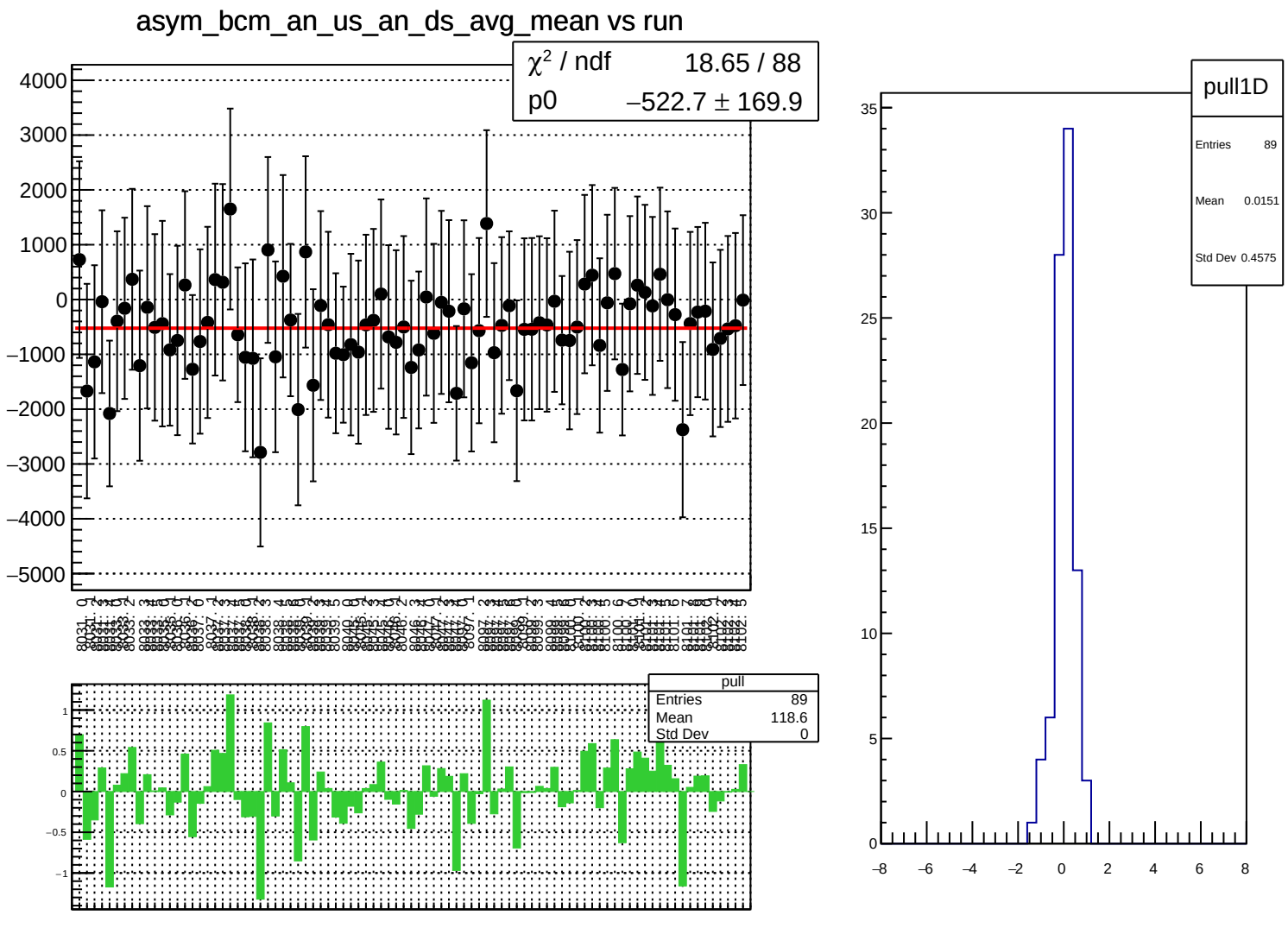

pull1D
Entries 89
Mean 0.0151
Std Dev 0.4547

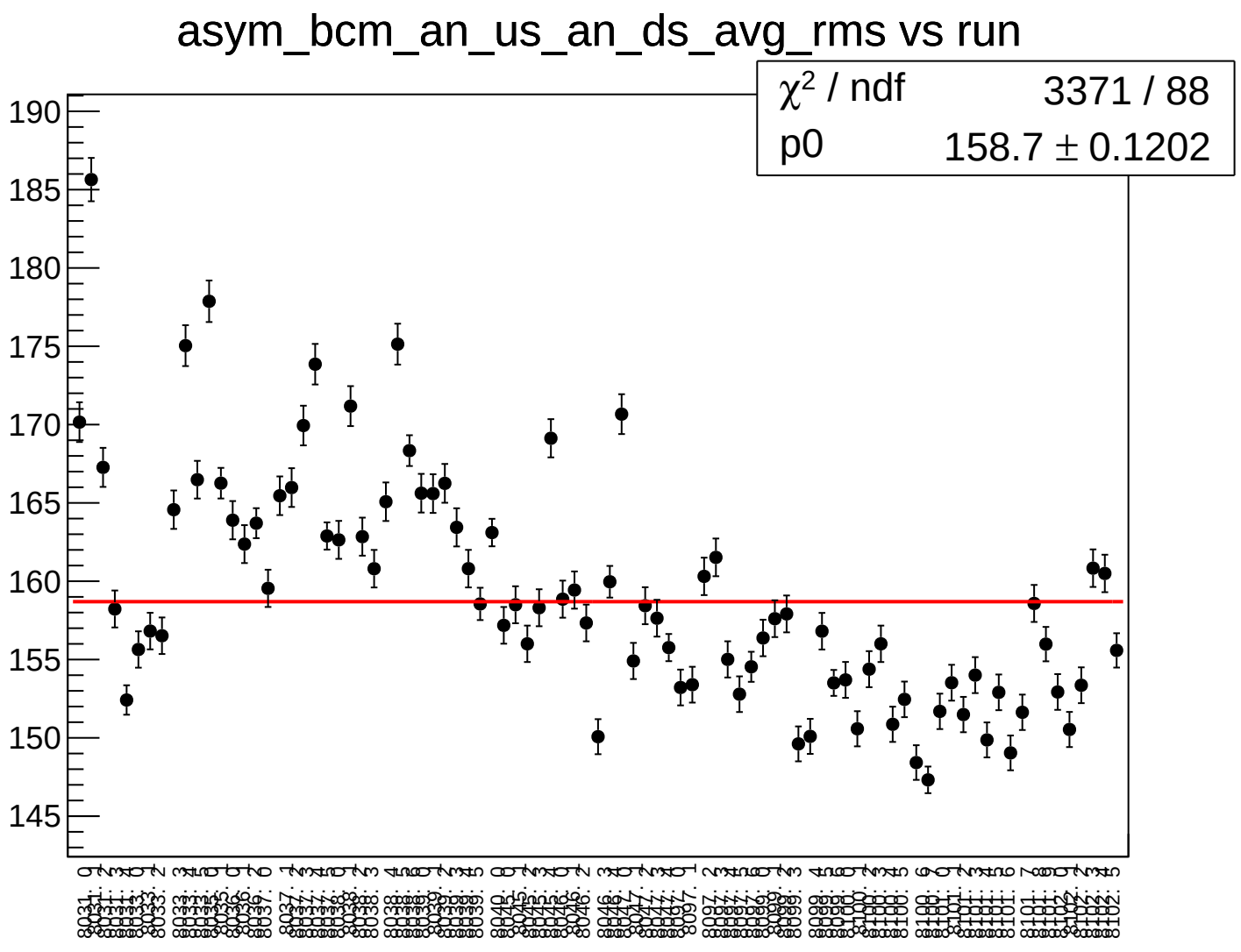

asym_bcm_2an_us_an_ds_avg_rms vs run
χ² / ndf 3351 / 88
p0 158.9 ± 0.1203
190
185
180
175
170
165
160
155
150
145

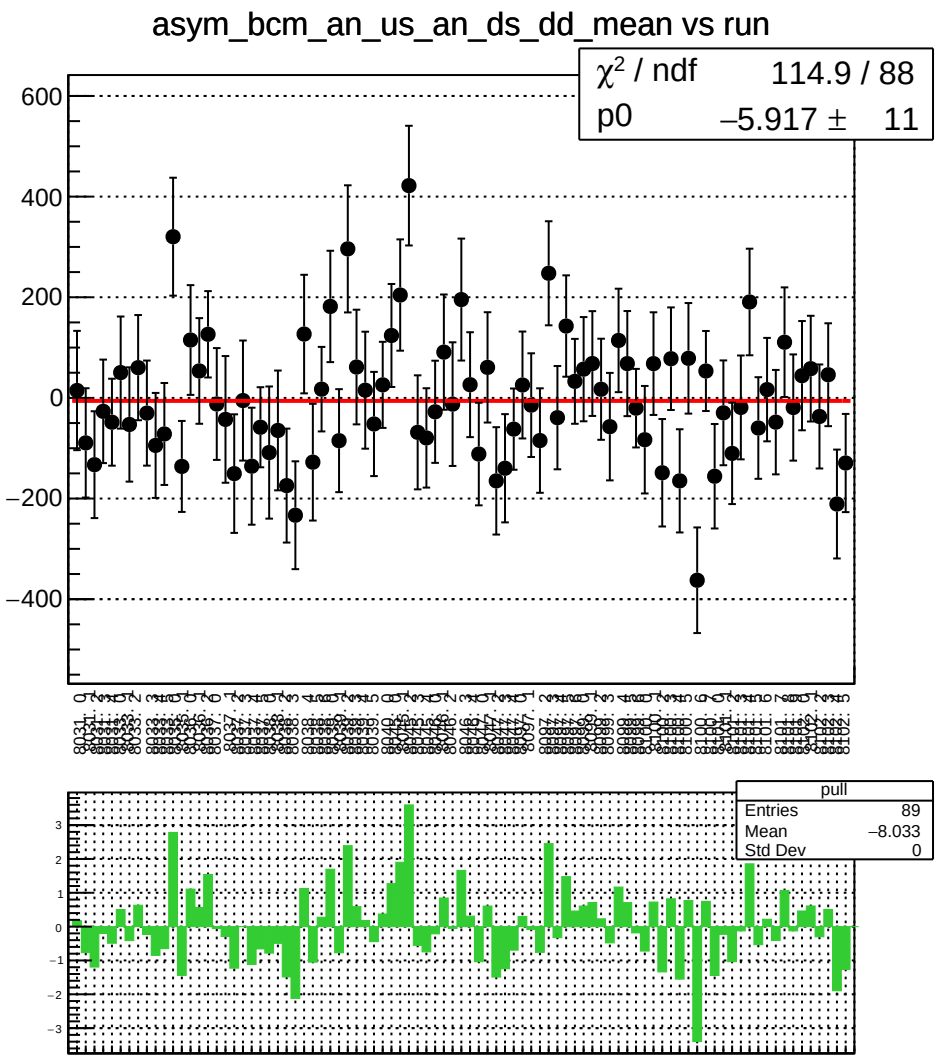

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 19.93 / 88
p0 −177.5 ± 58.18
1500
1000
500
0
−500
−1000
−1500
pull
Entries 89
Mean 108
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

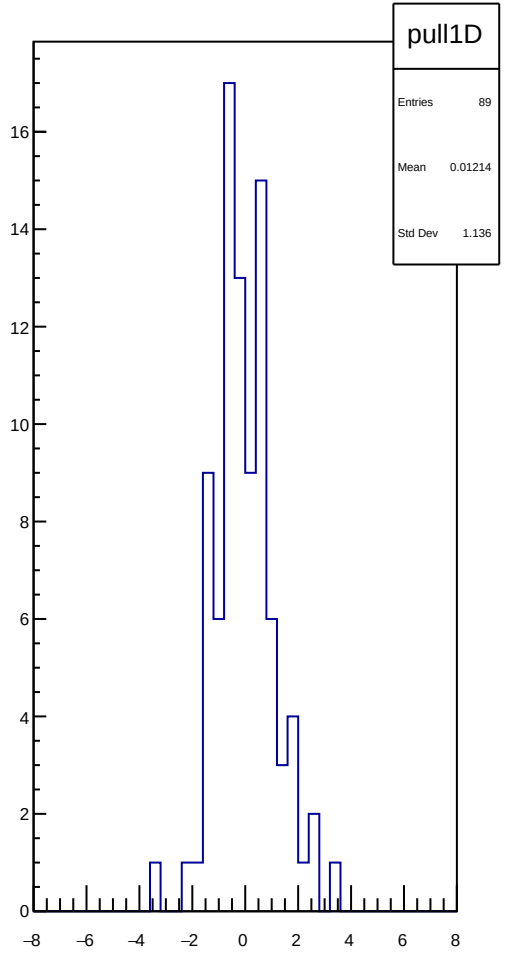

pull1D
Entries 89
Mean 0.01487
Std Dev 0.473
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

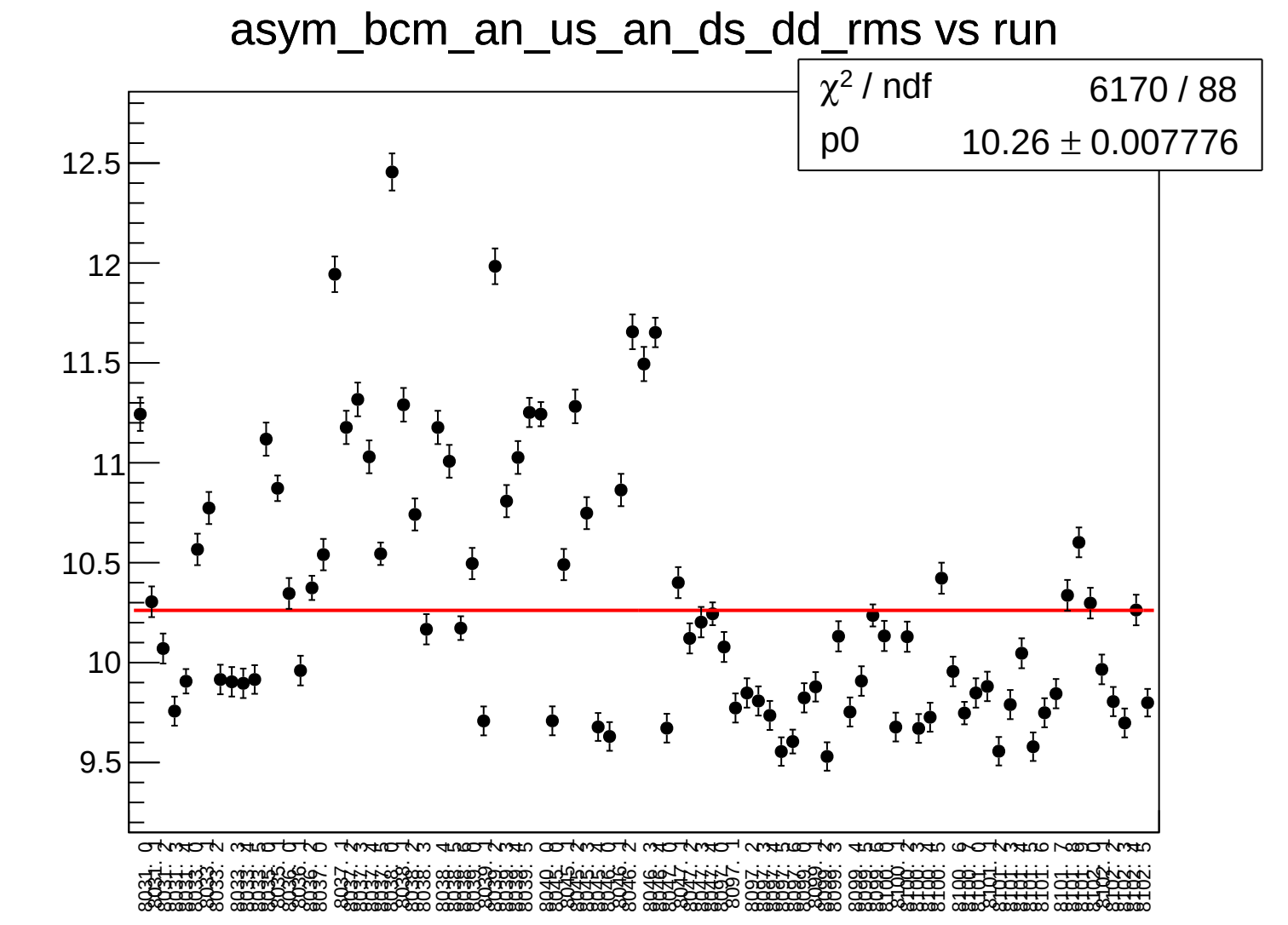

asym_bcm_2an_us_an_ds_dd_rms vs run
χ² / ndf 3160 / 88
p0 54.33 ± 0.04114
64
62
60
58
56
54
52
50

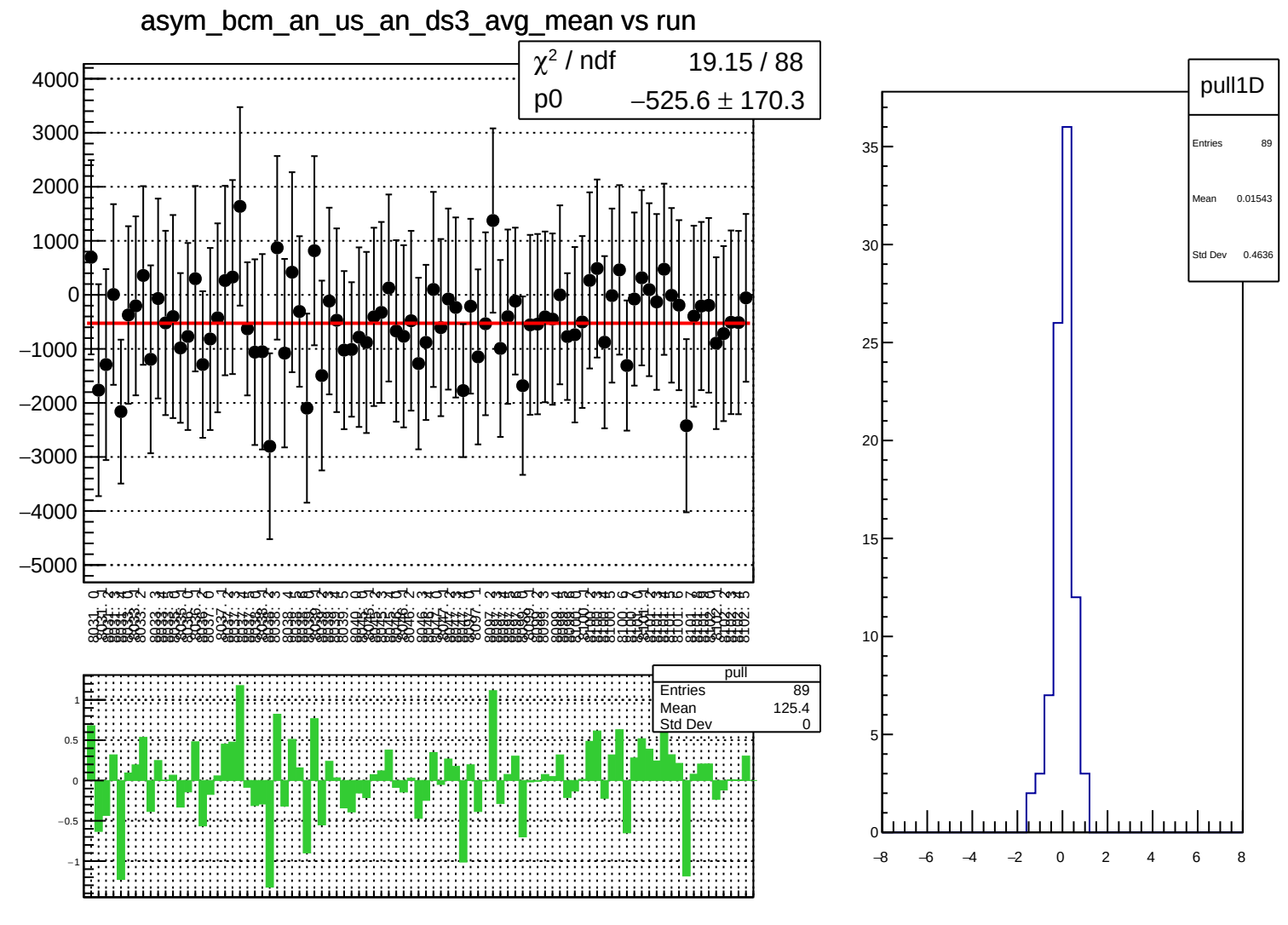

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 18.65 / 88
p0 −522.7 ± 169.9
pull
Entries 89
Mean 118.6
Std Dev 0
pull1D
Entries 89
Mean 0.0151
Std Dev 0.4575

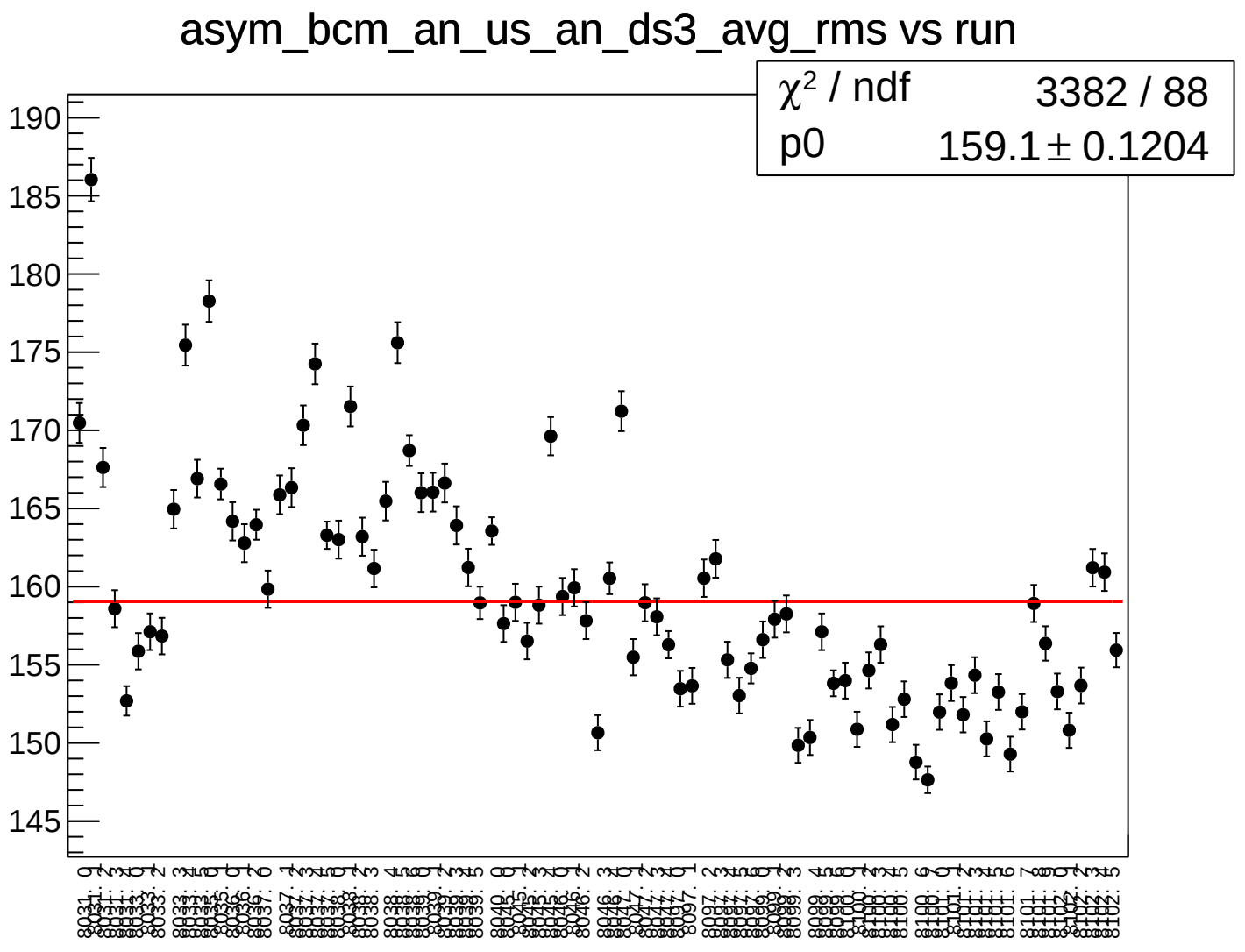

asym_bcm_an_us_an_ds_avg_rms vs run
χ² / ndf 3371 / 88
p0 158.7 ± 0.1202
190
185
180
175
170
165
160
155
150
145

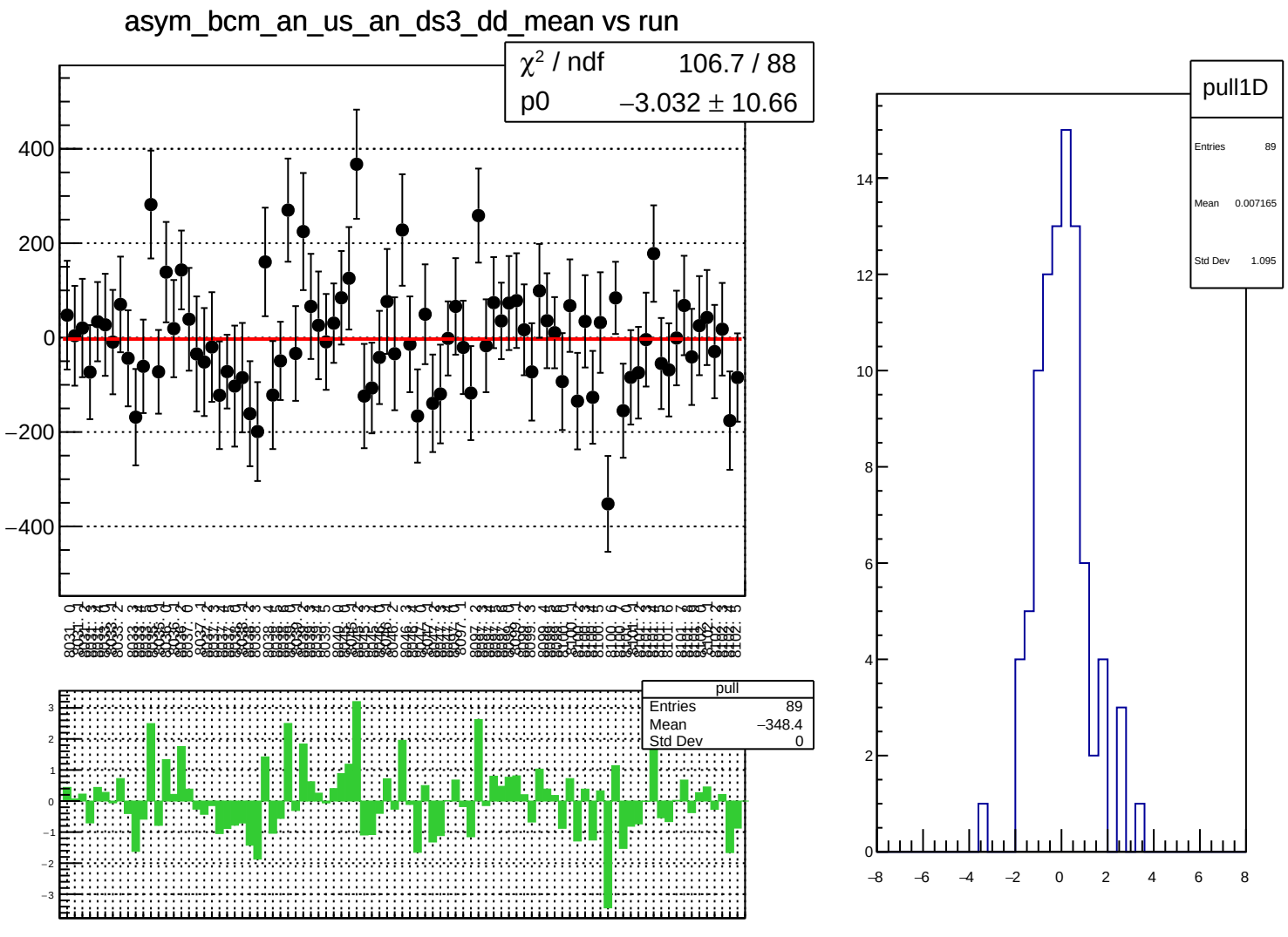

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 114.9 / 88
p0 −5.917 ± 11
600
400
200
0
−200
−400
pull
Entries 89
Mean −8.033
Std Dev 0
3
2
1
0
−1
−2
−3

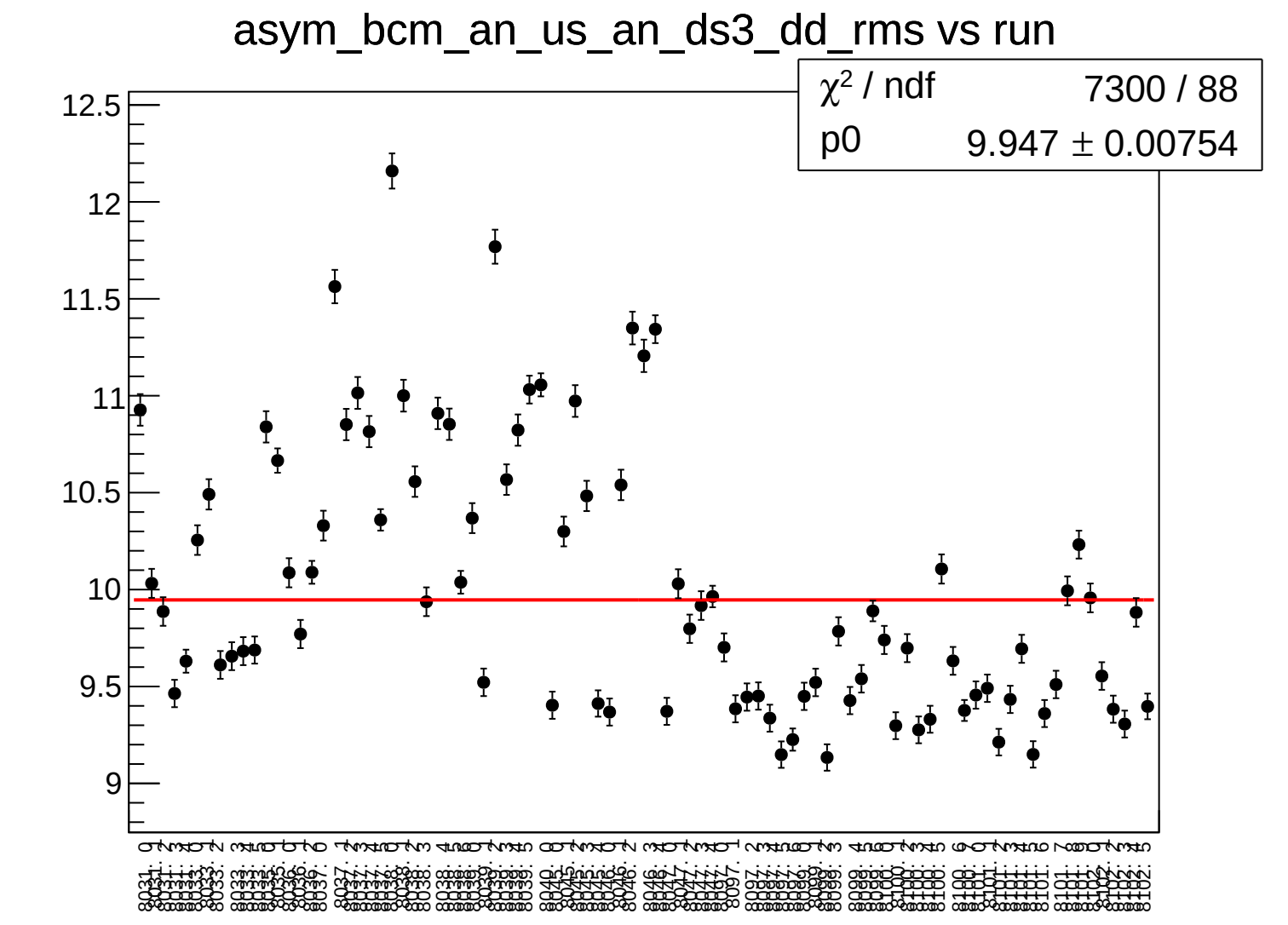

pull1D
Entries 89
Mean 0.01214
Std Dev 1.136
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

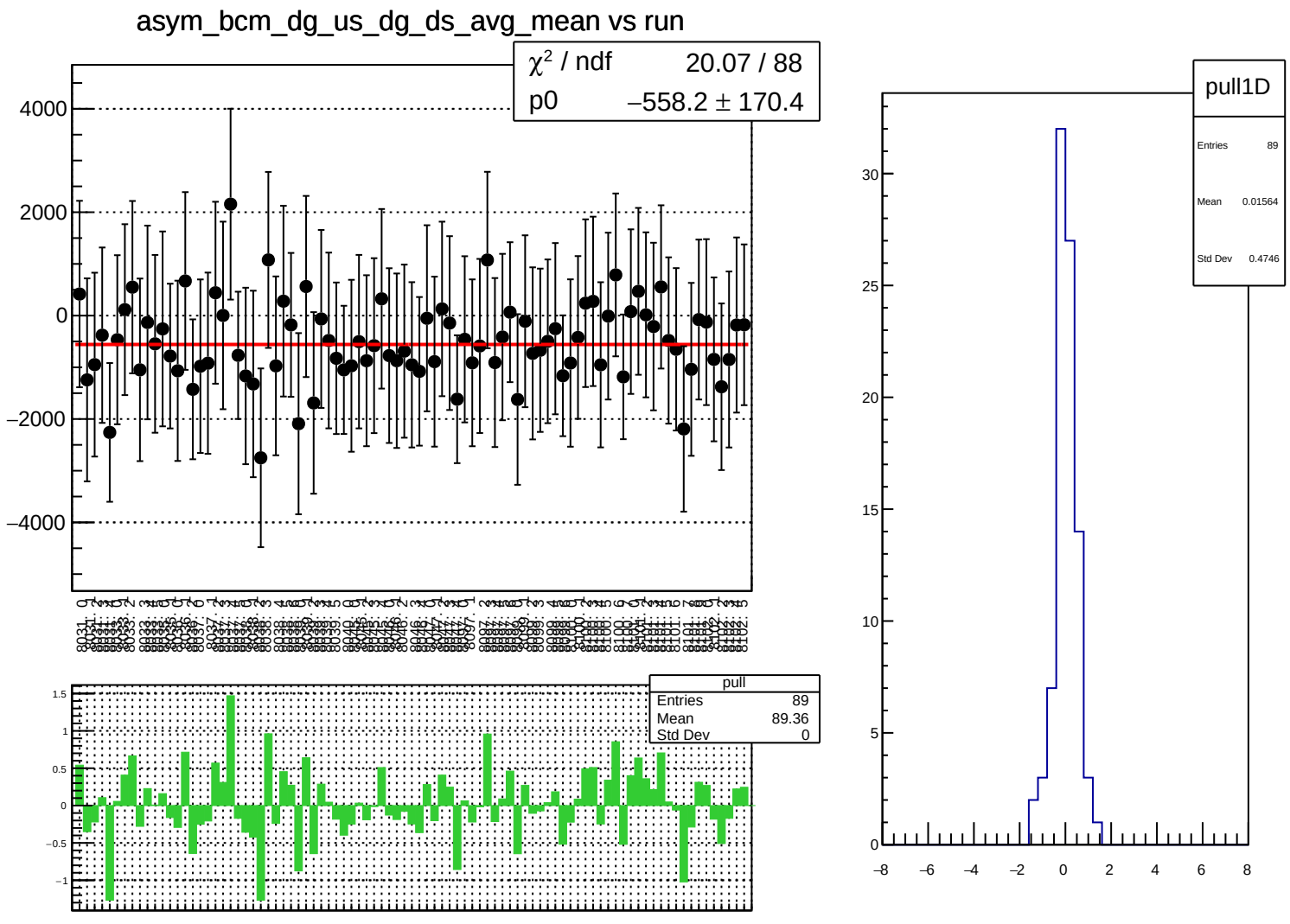

asym_bcm_an_us_an_ds_dd_rms vs run
χ² / ndf 6170 / 88
p0 10.26 ± 0.007776
12.5
12
11.5
11
10.5
10
9.5

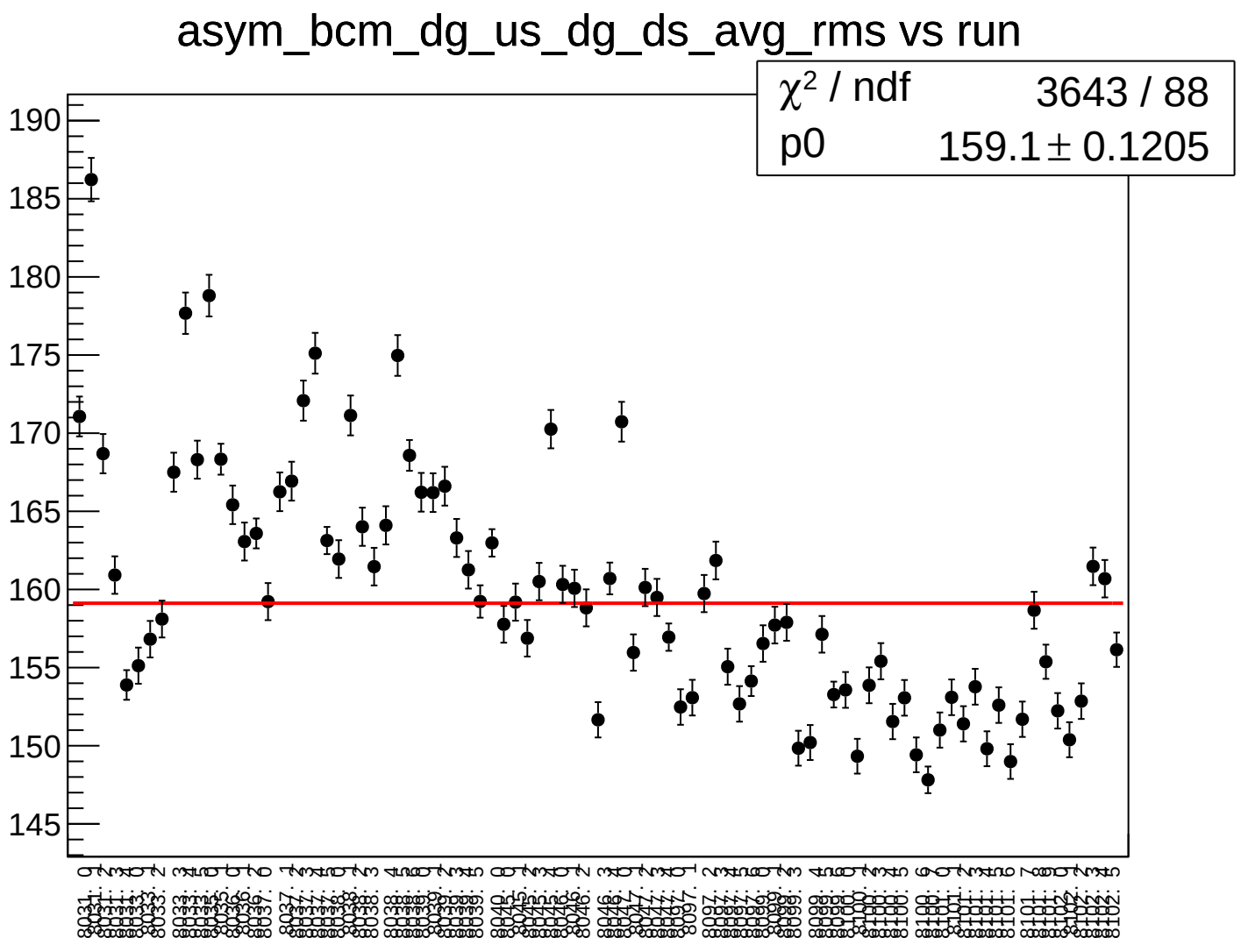

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 19.15 / 88
p0 −525.6 ± 170.3
pull
Entries 89
Mean 125.4
Std Dev 0
pull1D
Entries 89
Mean 0.01543
Std Dev 0.4636

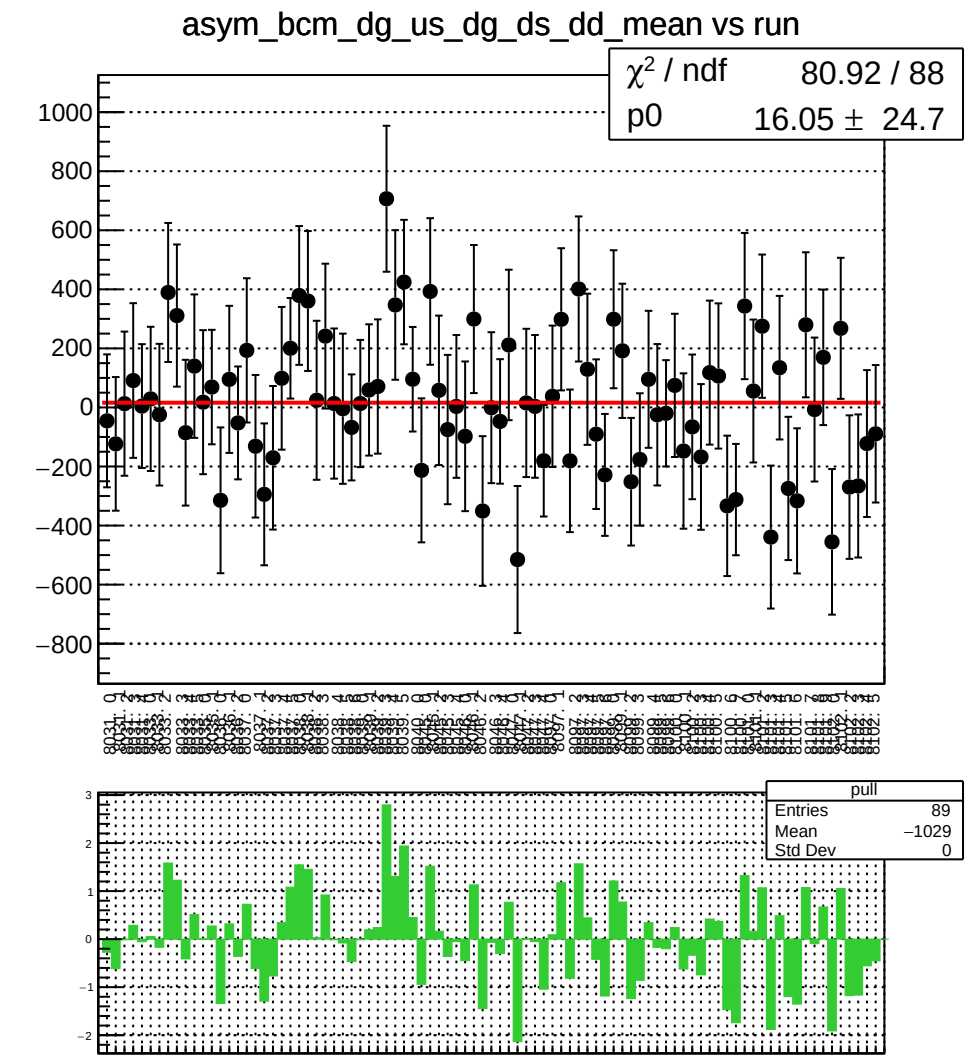

asym_bcm_an_us_an_ds3_avg_rms vs run
χ² / ndf 3382 / 88
p0 159.1 ± 0.1204
190
185
180
175
170
165
160
155
150
145

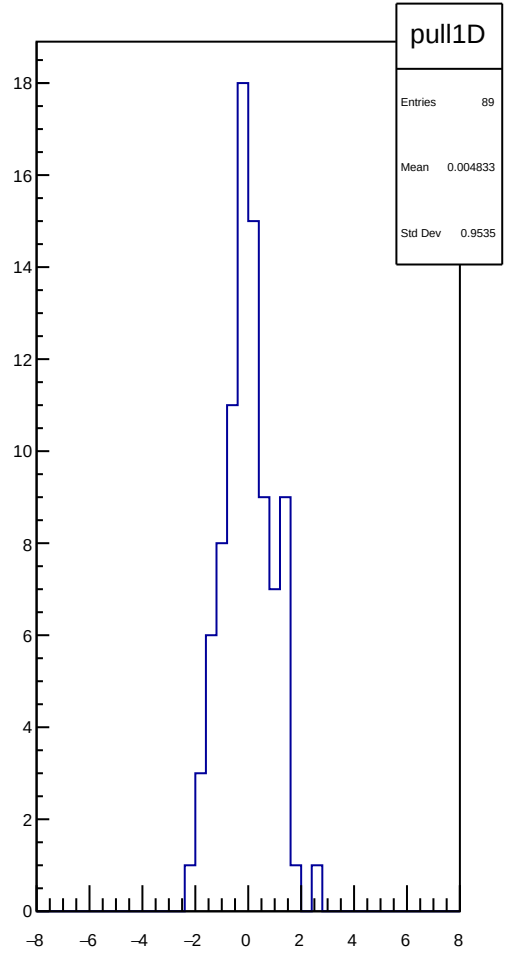

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 106.7 / 88
p0 −3.032 ± 10.66
400
200
0
−200
−400
pull
Entries 89
Mean −348.4
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.007165
Std Dev 1.095
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

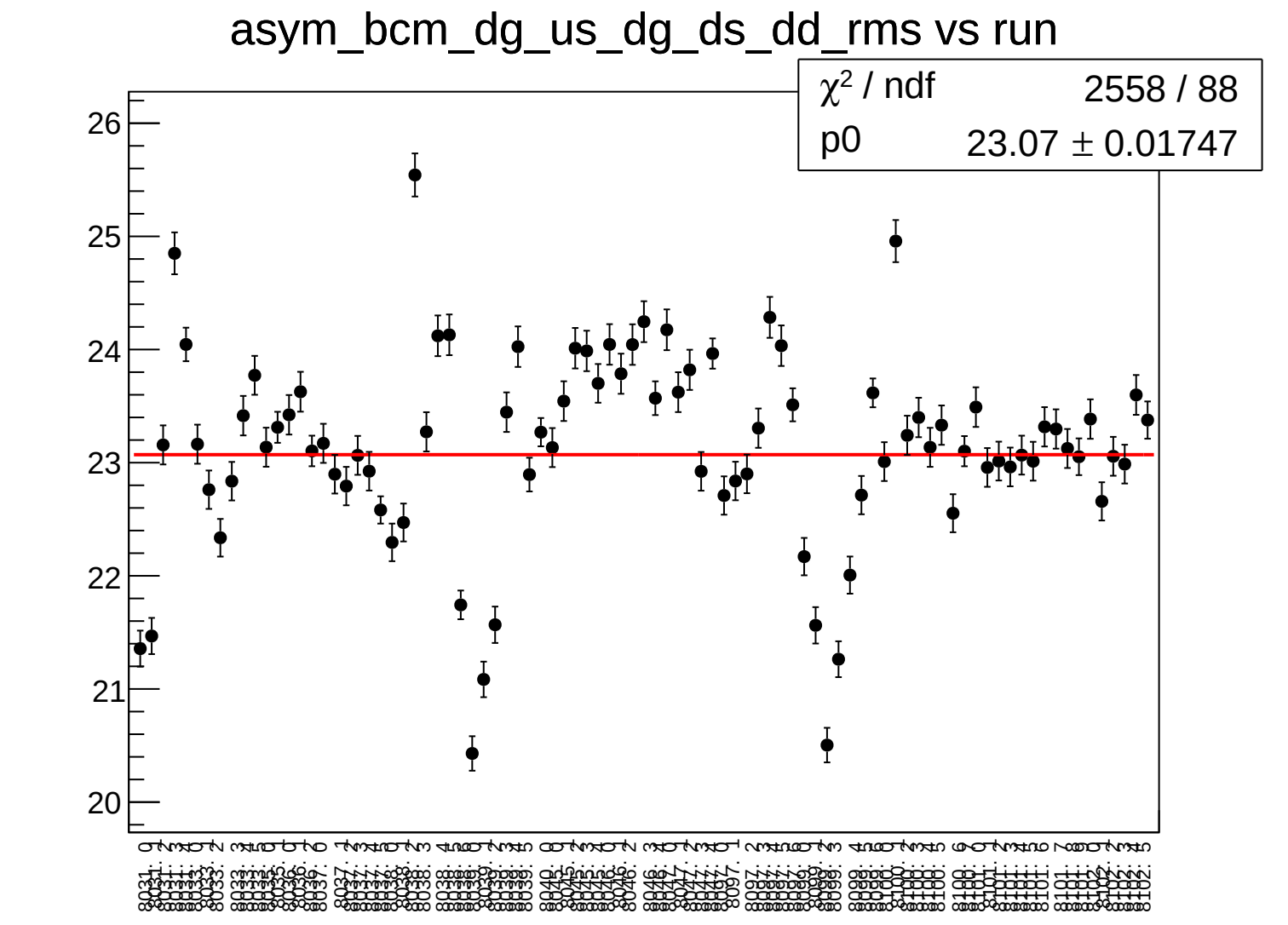

asym_bcm_an_us_an_ds3_dd_rms vs run
χ² / ndf 7300 / 88
p0 9.947 ± 0.00754
12.5
12
11.5
11
10.5
10
9.5
9

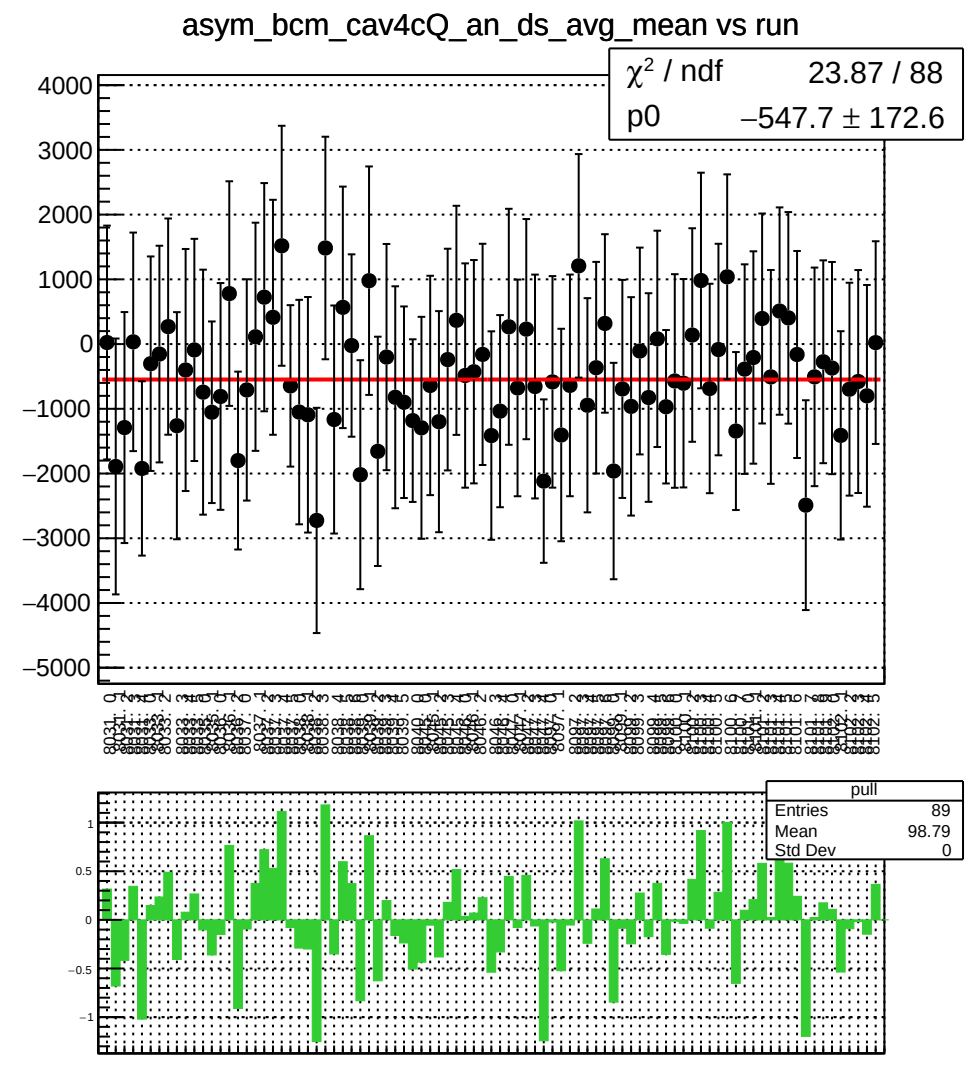

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 20.07 / 88
p0 −558.2 ± 170.4
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 89.36
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean 0.01564
Std Dev 0.4746
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

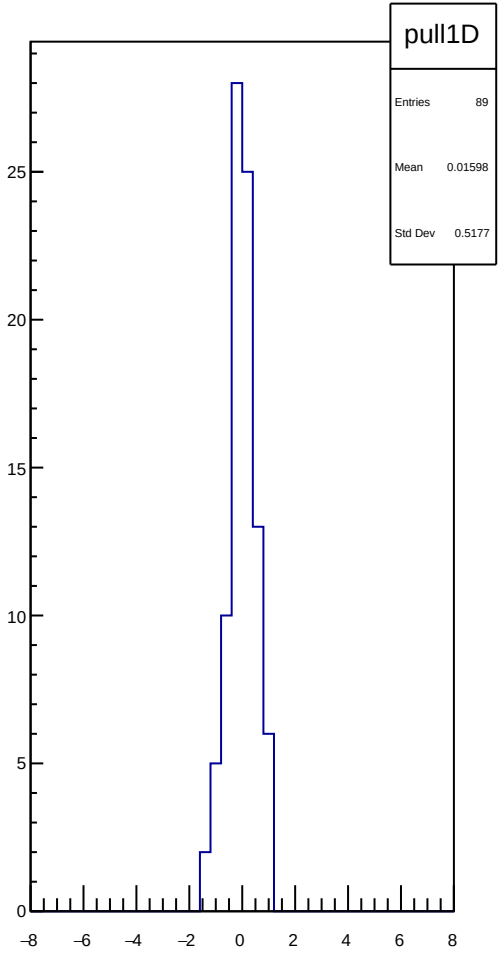

asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 3643 / 88
p0 159.1 ± 0.1205
190
185
180
175
170
165
160
155
150
145

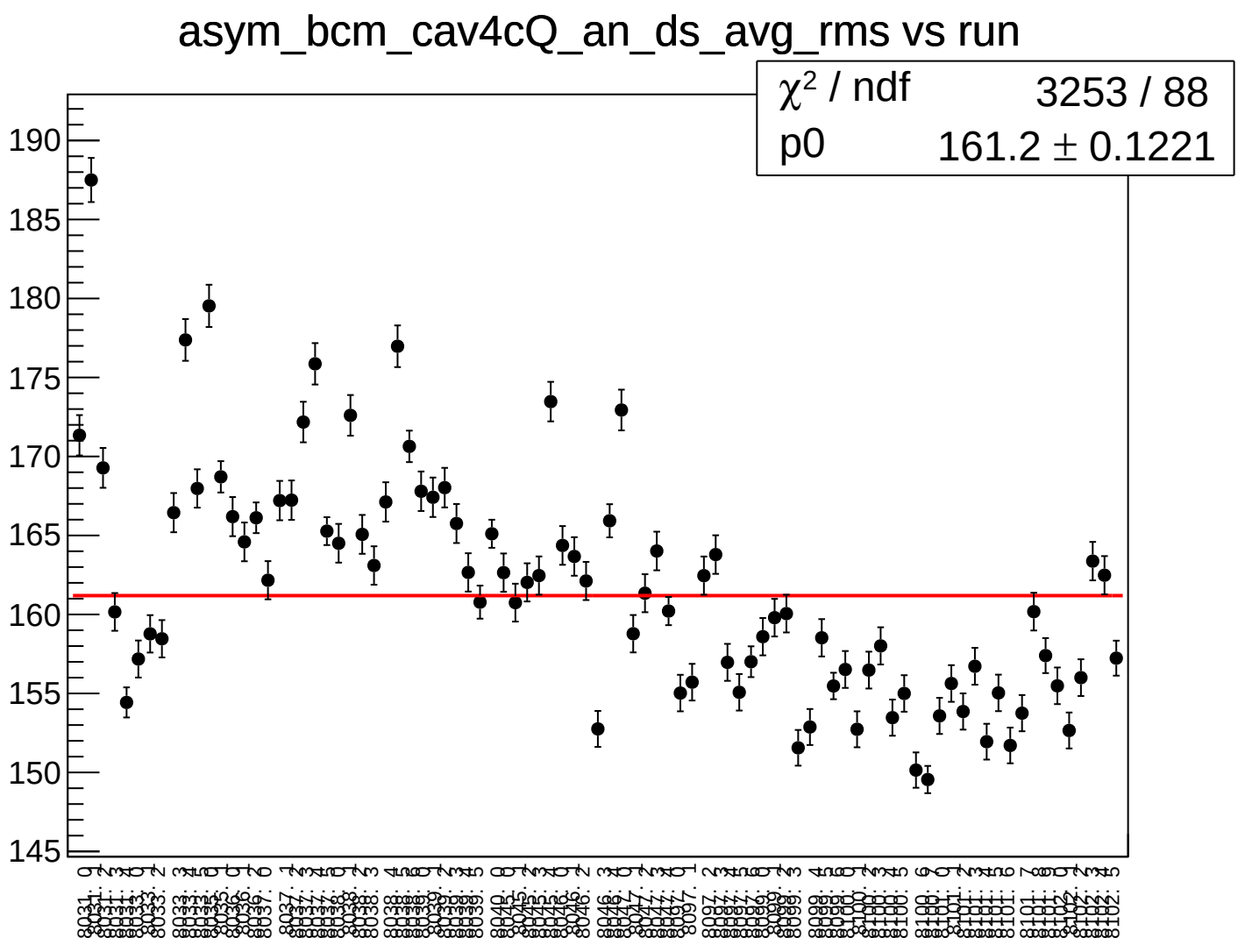

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 80.92 / 88
p0 16.05 ± 24.7
pull
Entries 89
Mean −1029
Std Dev 0

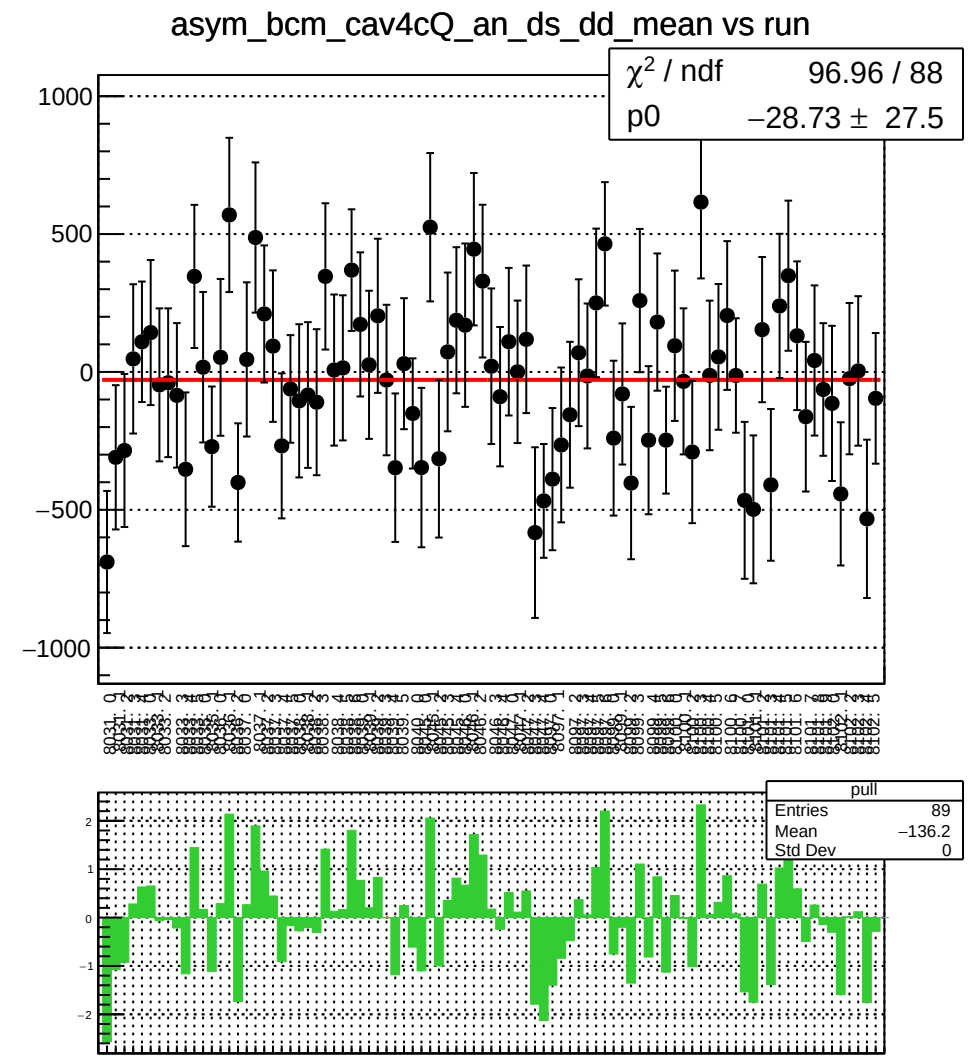

pull1D
Entries 89
Mean 0.004833
Std Dev 0.9535

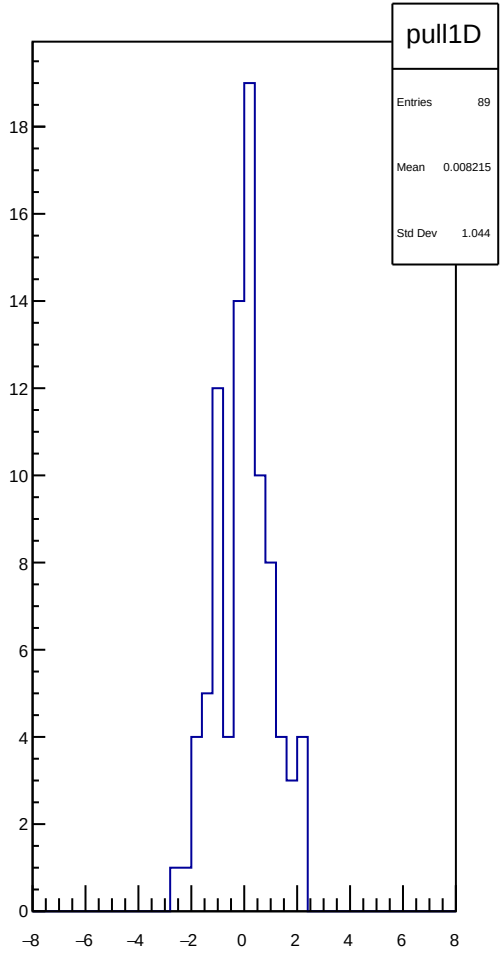

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 2558 / 88
p0 23.07 ± 0.01747
26
25
24
23
22
21
20

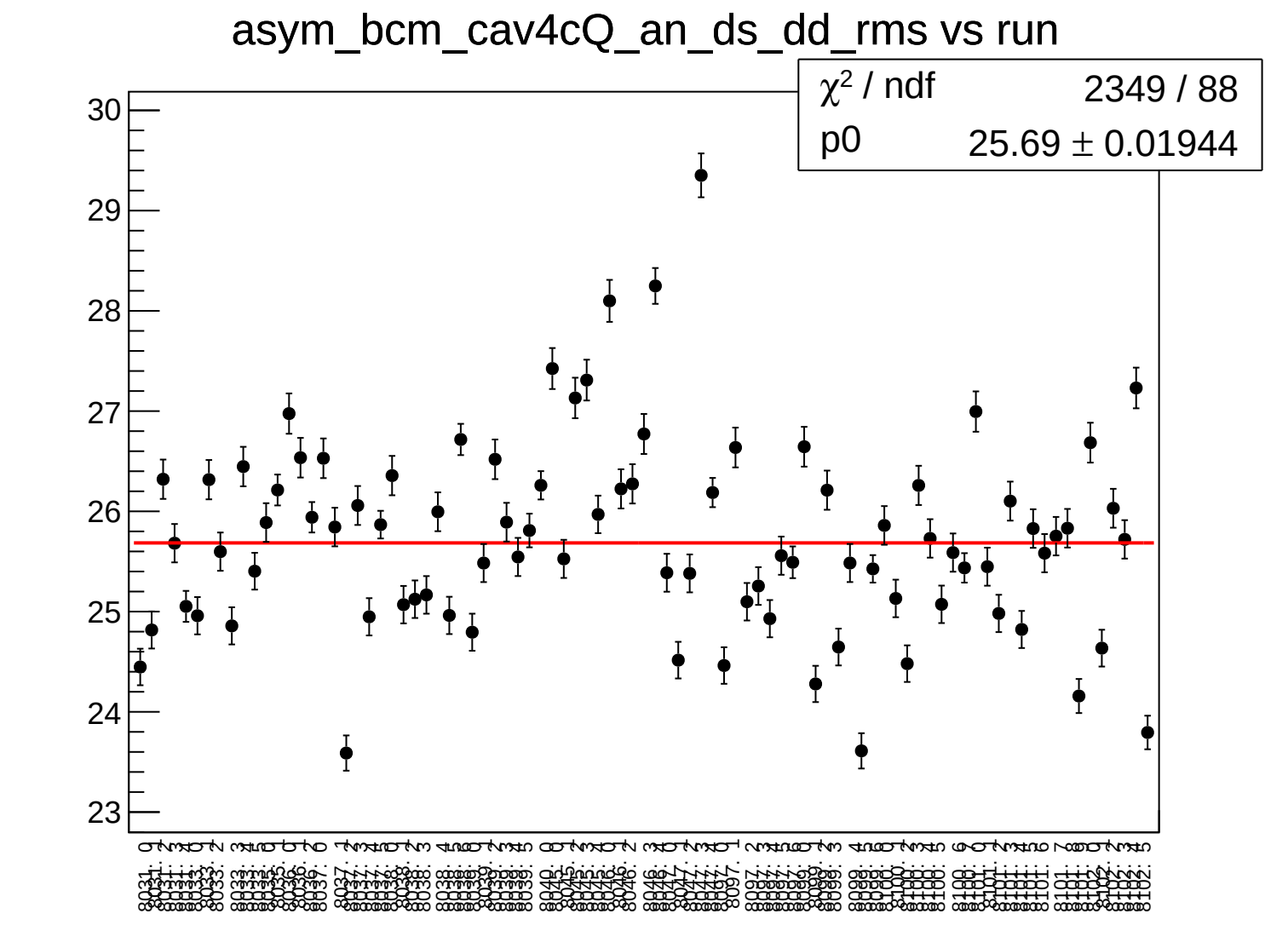

asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 23.87 / 88
p0 −547.7 ± 172.6
pull
Entries 89
Mean 98.79
Std Dev 0

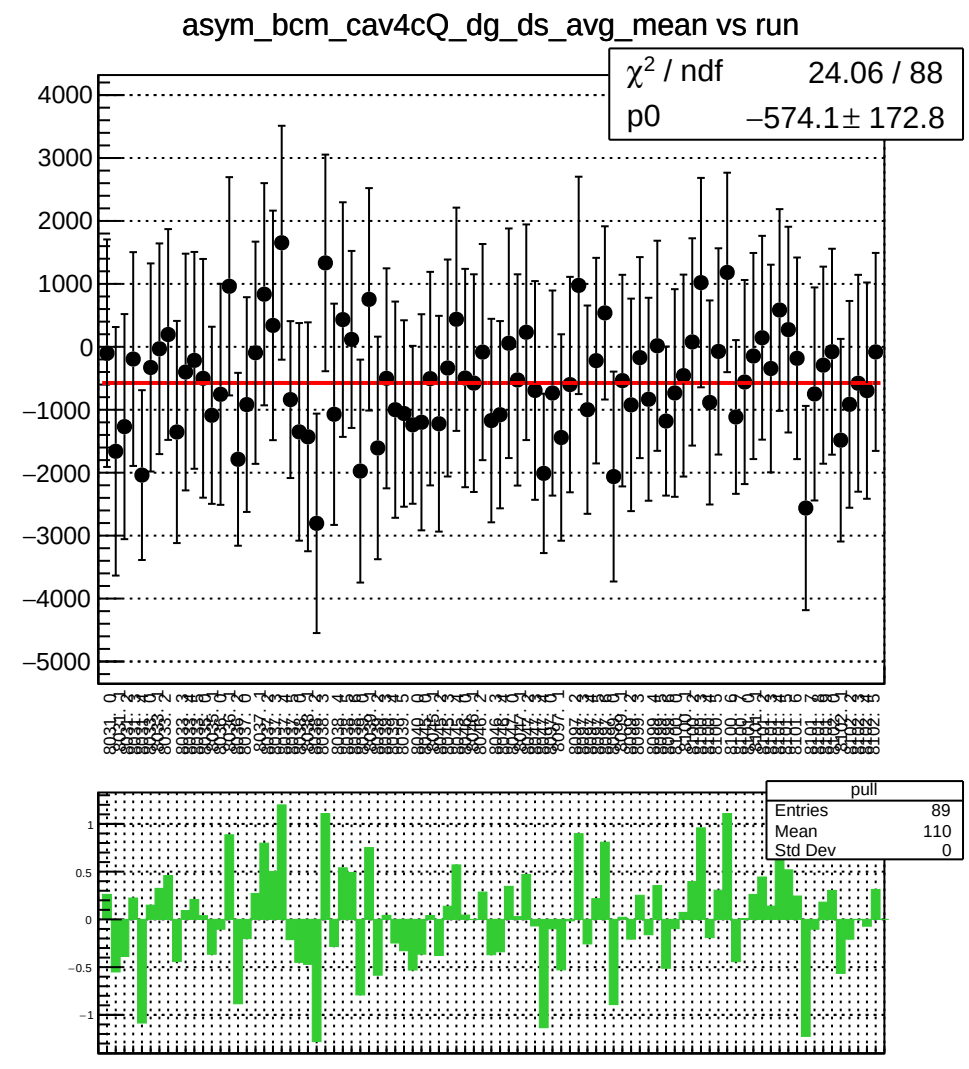

pull1D
Entries 89
Mean 0.01598
Std Dev 0.5177

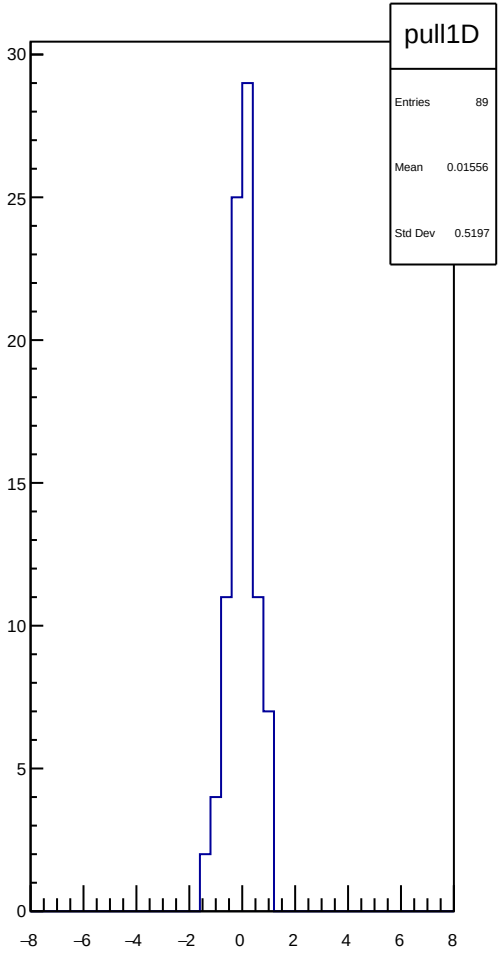

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ² / ndf 3253 / 88
p0 161.2 ± 0.1221
190
185
180
175
170
165
160
155
150
145

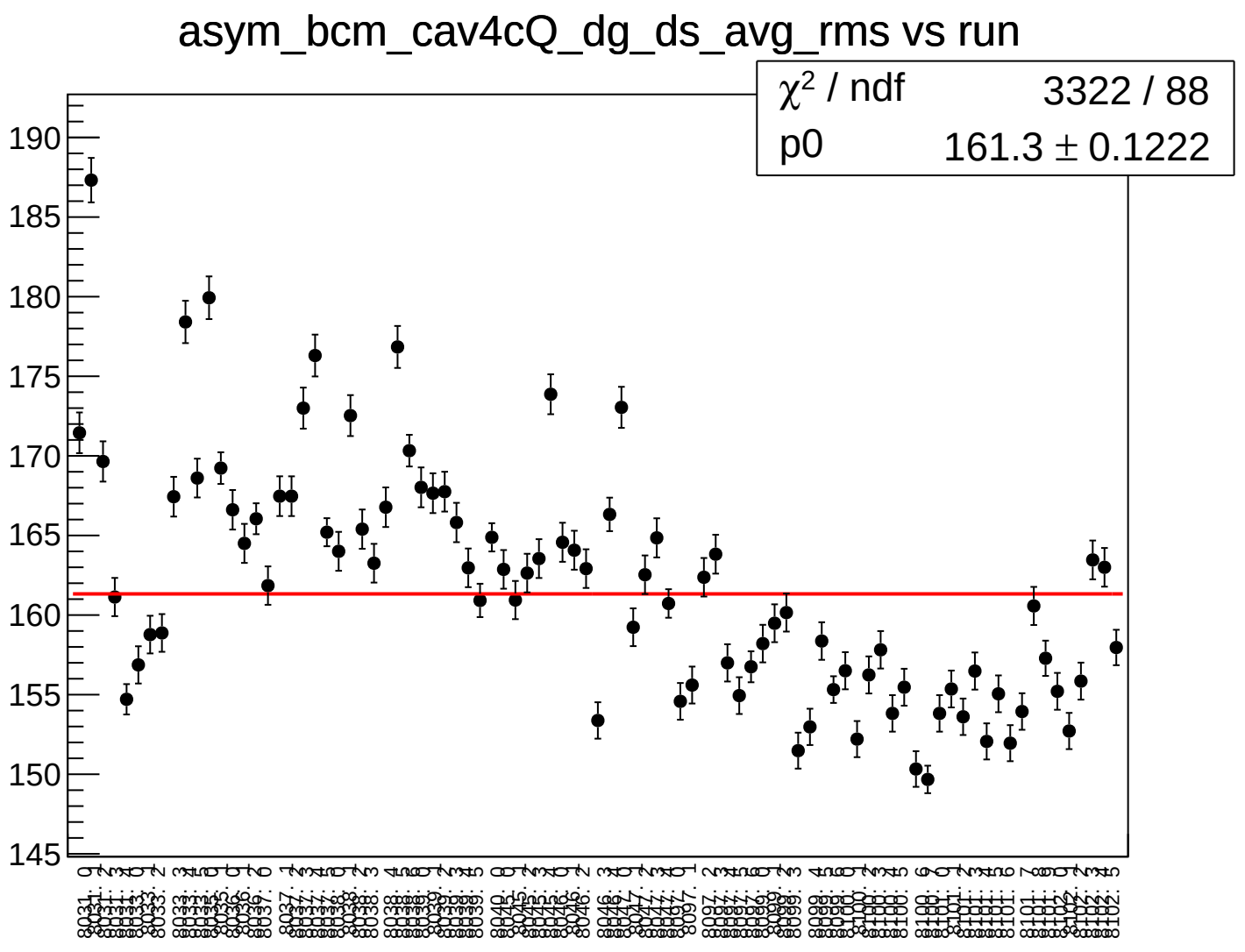

asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 96.96 / 88
p0 −28.73 ± 27.5
1000
500
0
−500
−1000
pull
Entries 89
Mean −136.2
Std Dev 0
2
1
0
−1
−2

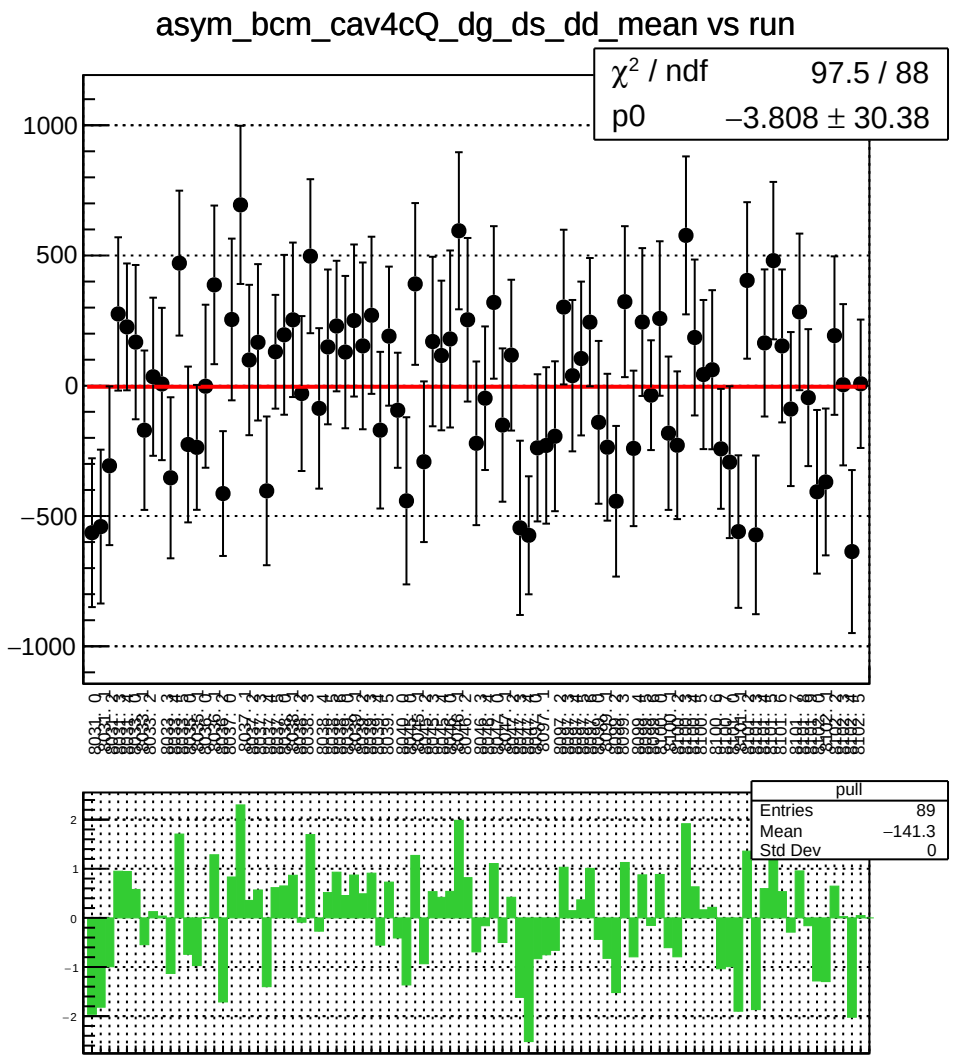

pull1D
Entries 89
Mean 0.008215
Std Dev 1.044
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

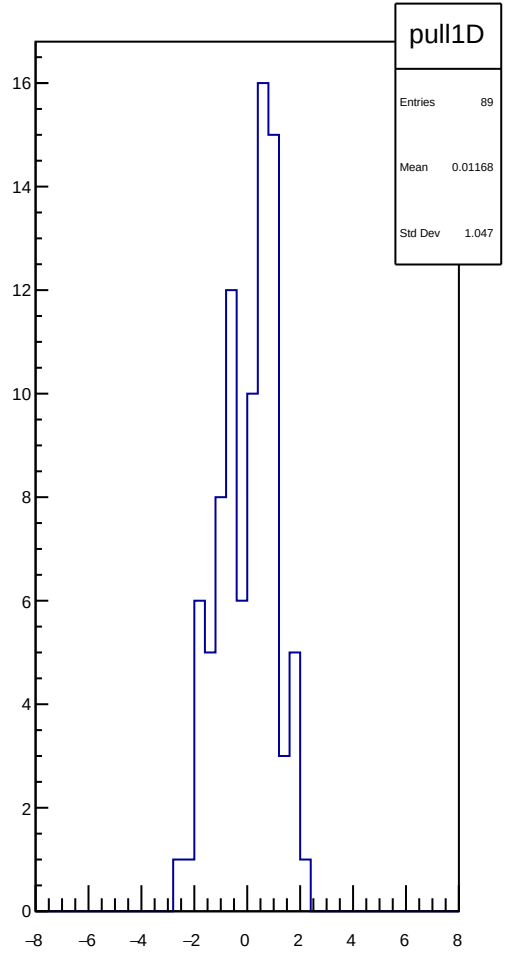

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 2349 / 88
p0 25.69 ± 0.01944
30
29
28
27
26
25
24
23

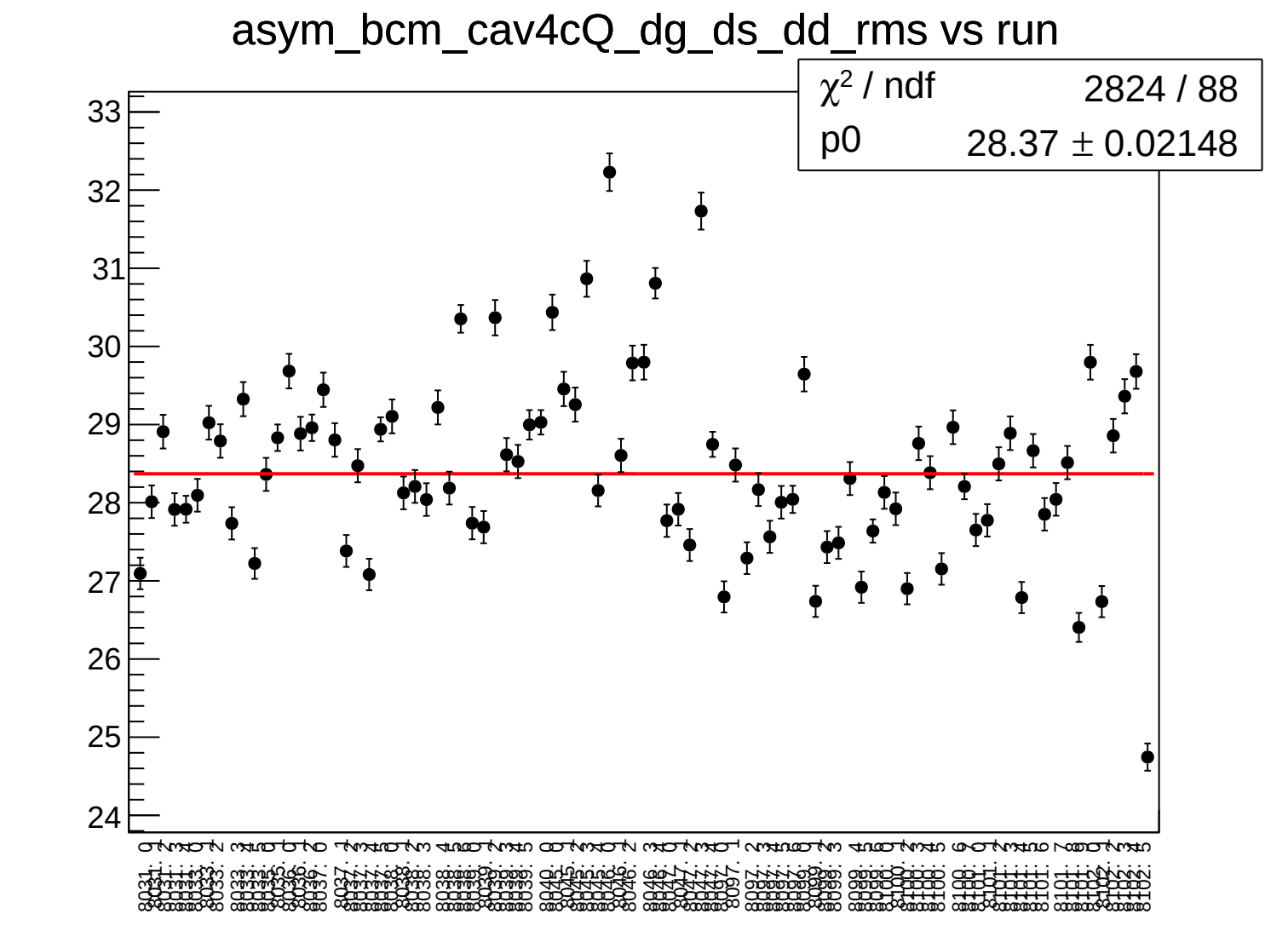

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 24.06 / 88
p0 −574.1± 172.8
pull
Entries 89
Mean 110
Std Dev 0

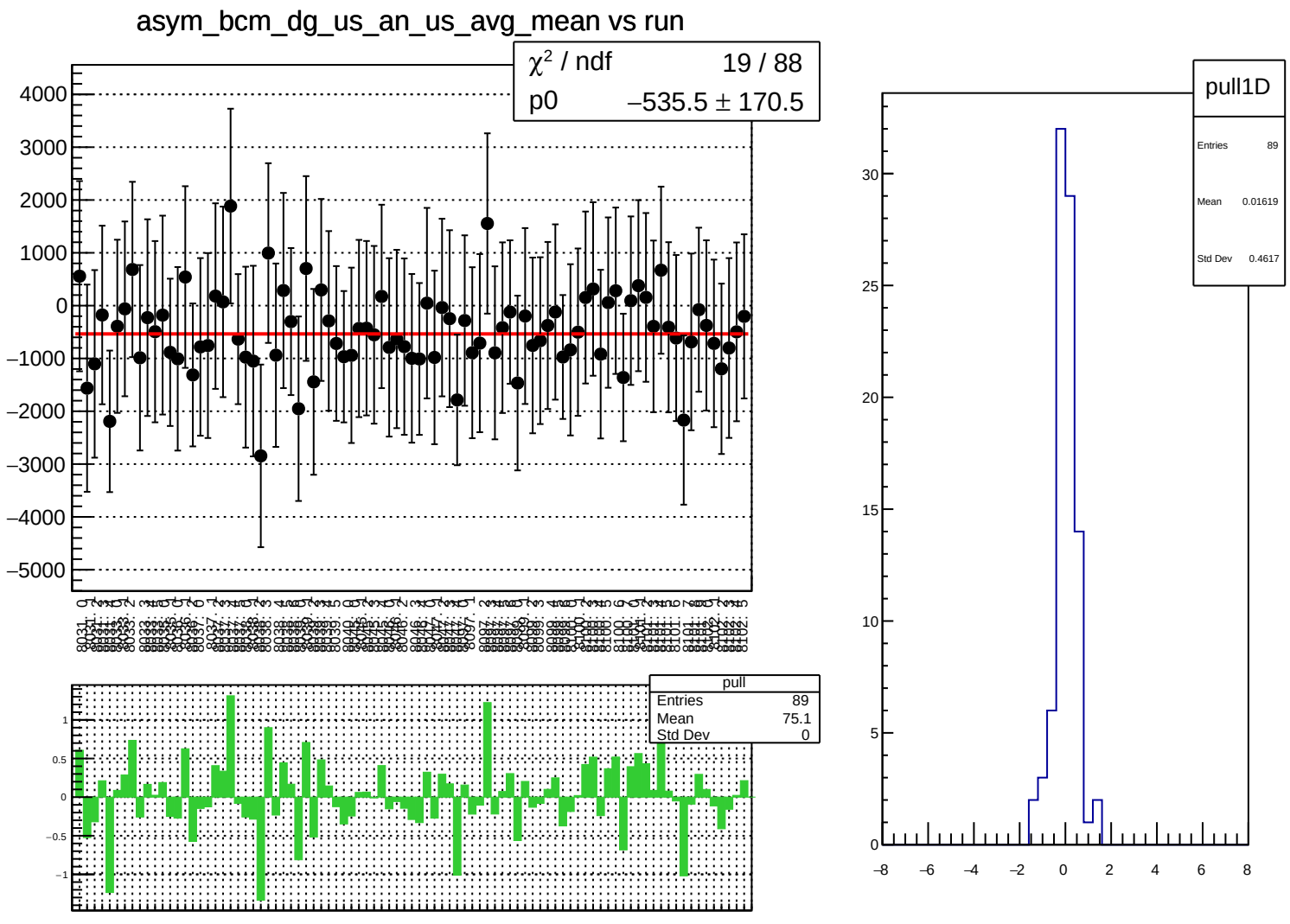

pull1D
Entries 89
Mean 0.01556
Std Dev 0.5197

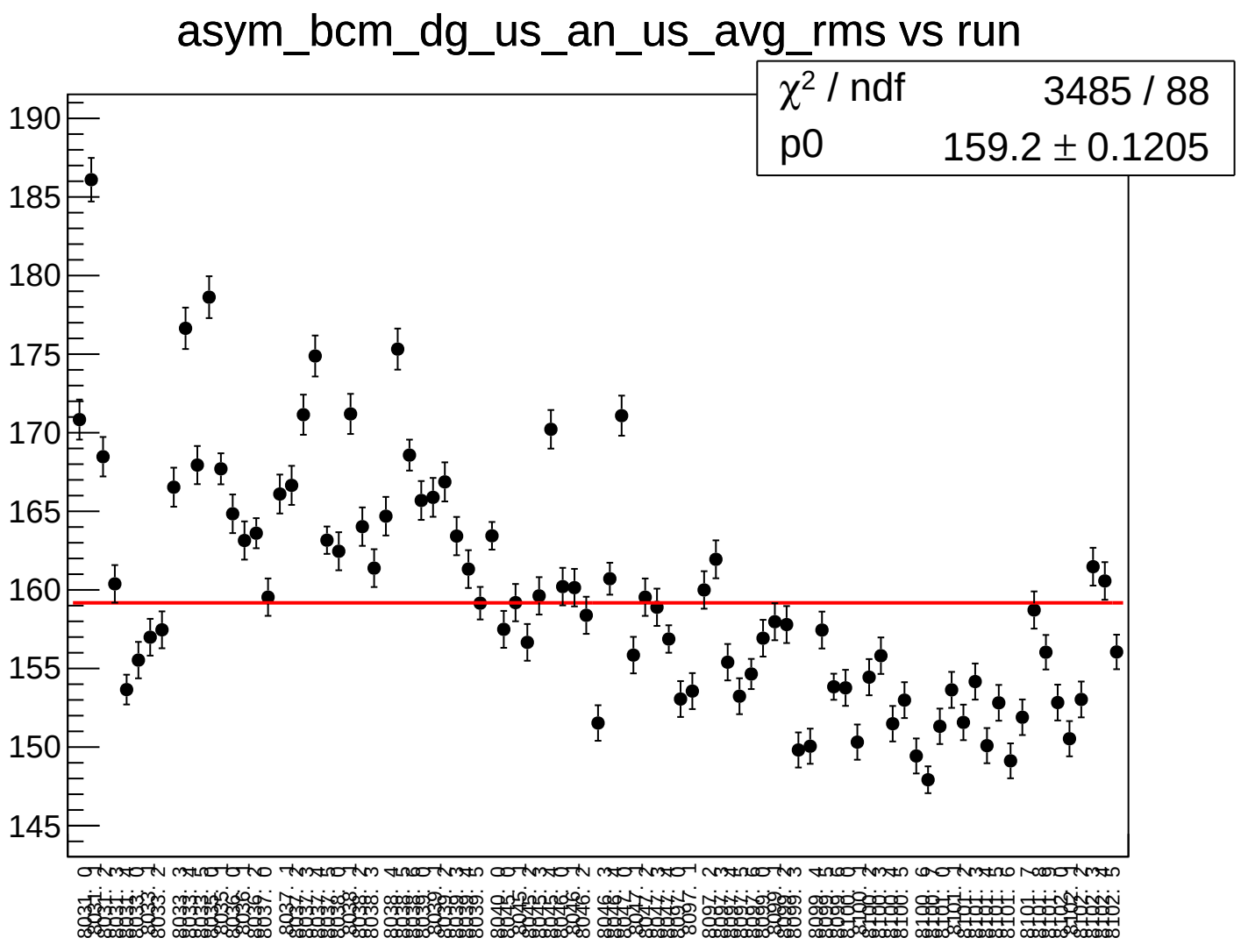

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 3322 / 88
p0 161.3 ± 0.1222
190
185
180
175
170
165
160
155
150
145

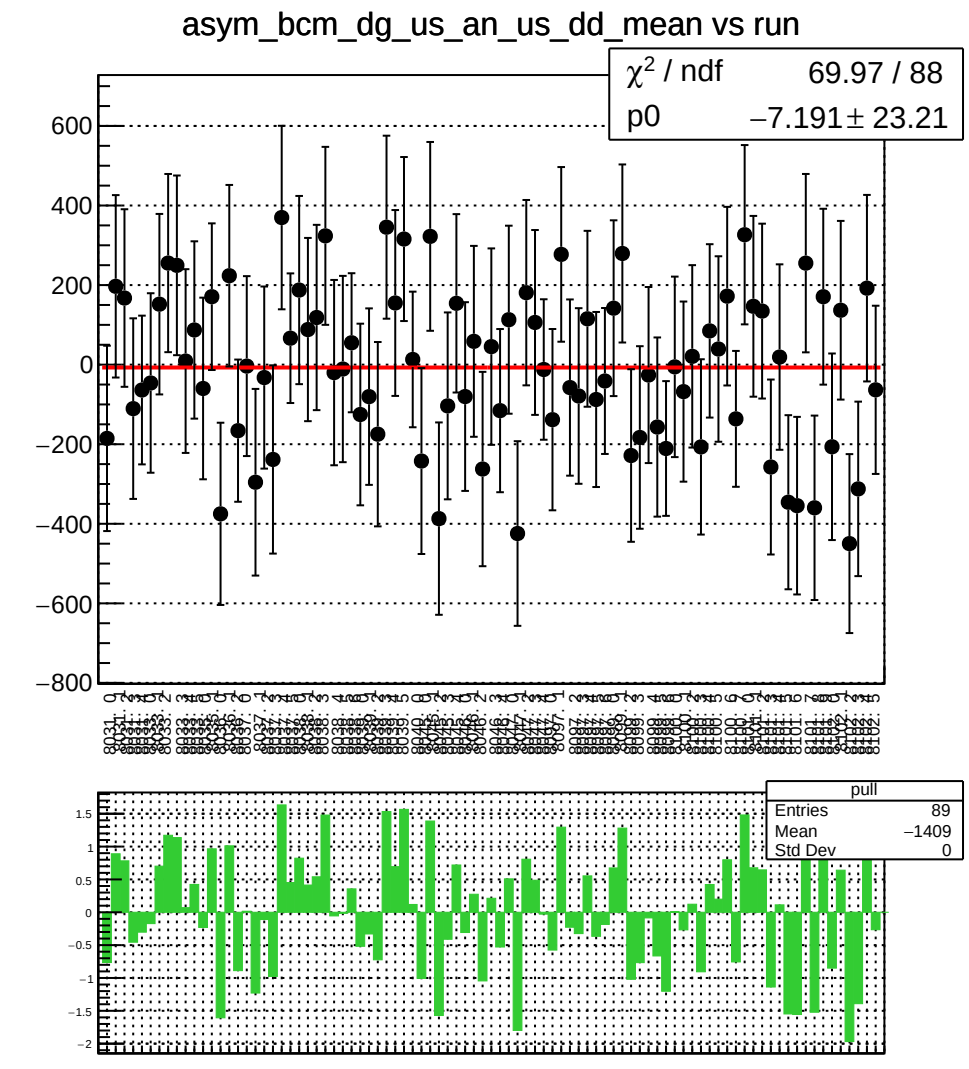

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 97.5 / 88
p0 −3.808 ± 30.38
1000
500
0
−500
−1000
pull
Entries 89
Mean −141.3
Std Dev 0
2
1
0
−1
−2

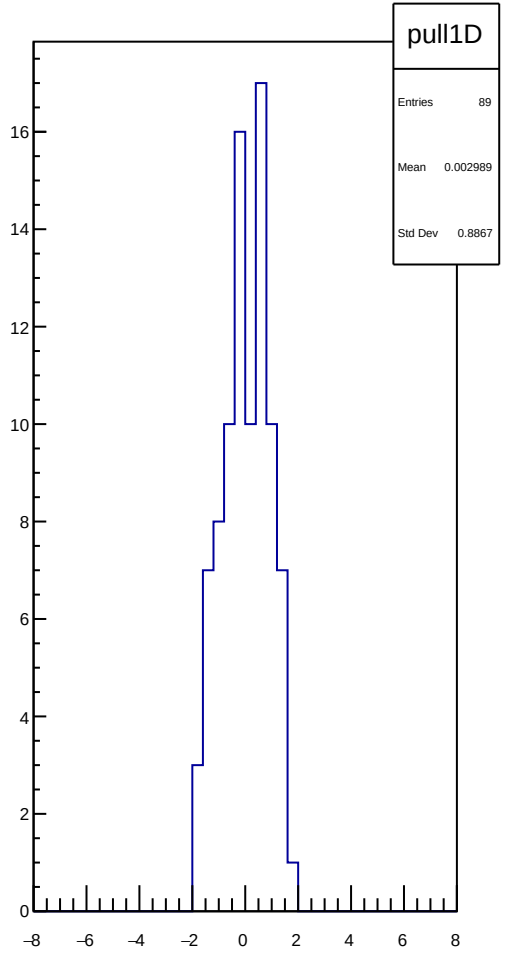

pull1D
Entries 89
Mean 0.01168
Std Dev 1.047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

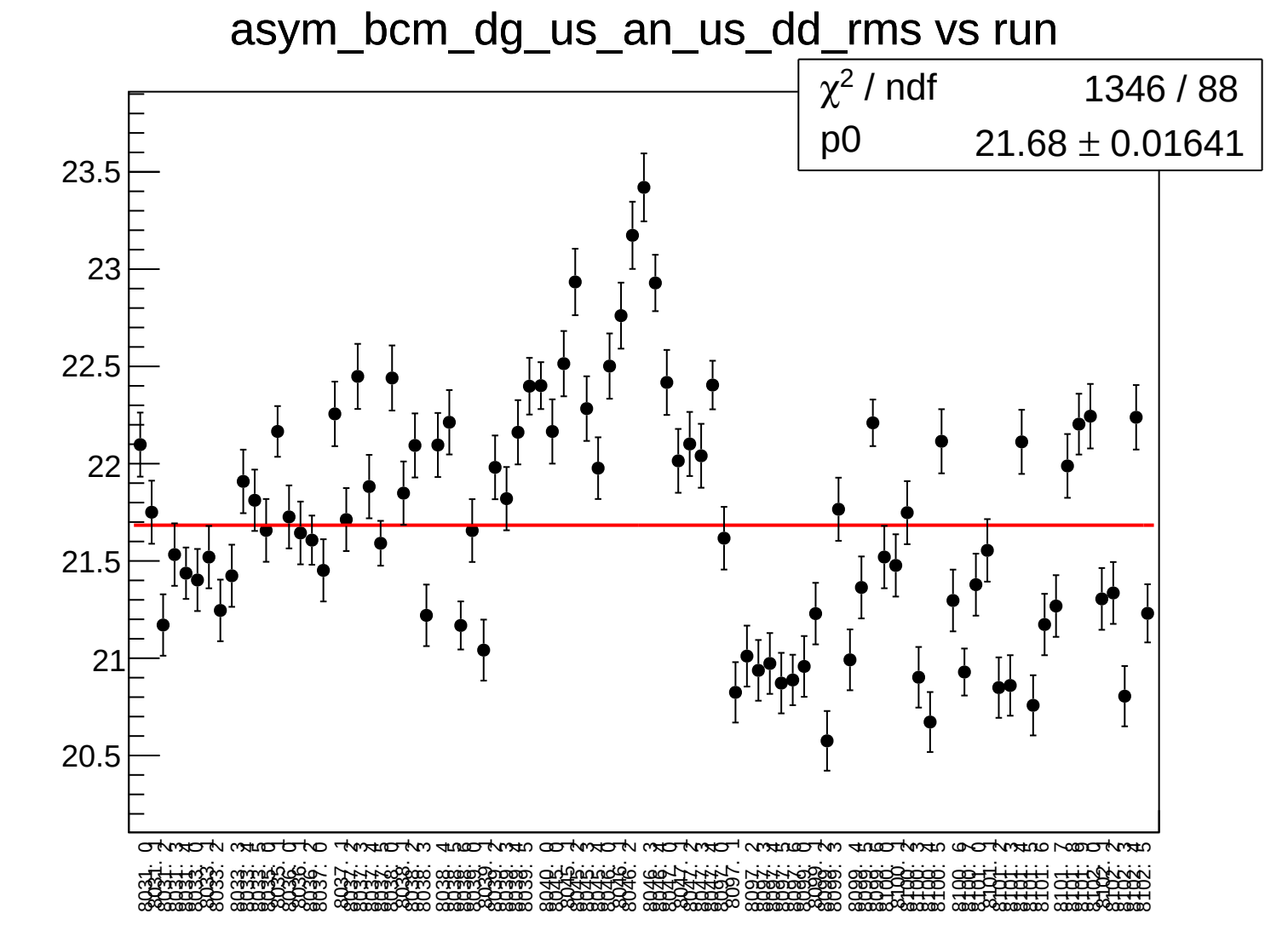

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 2824 / 88
p0 28.37 ± 0.02148
33
32
31
30
29
28
27
26
25
24

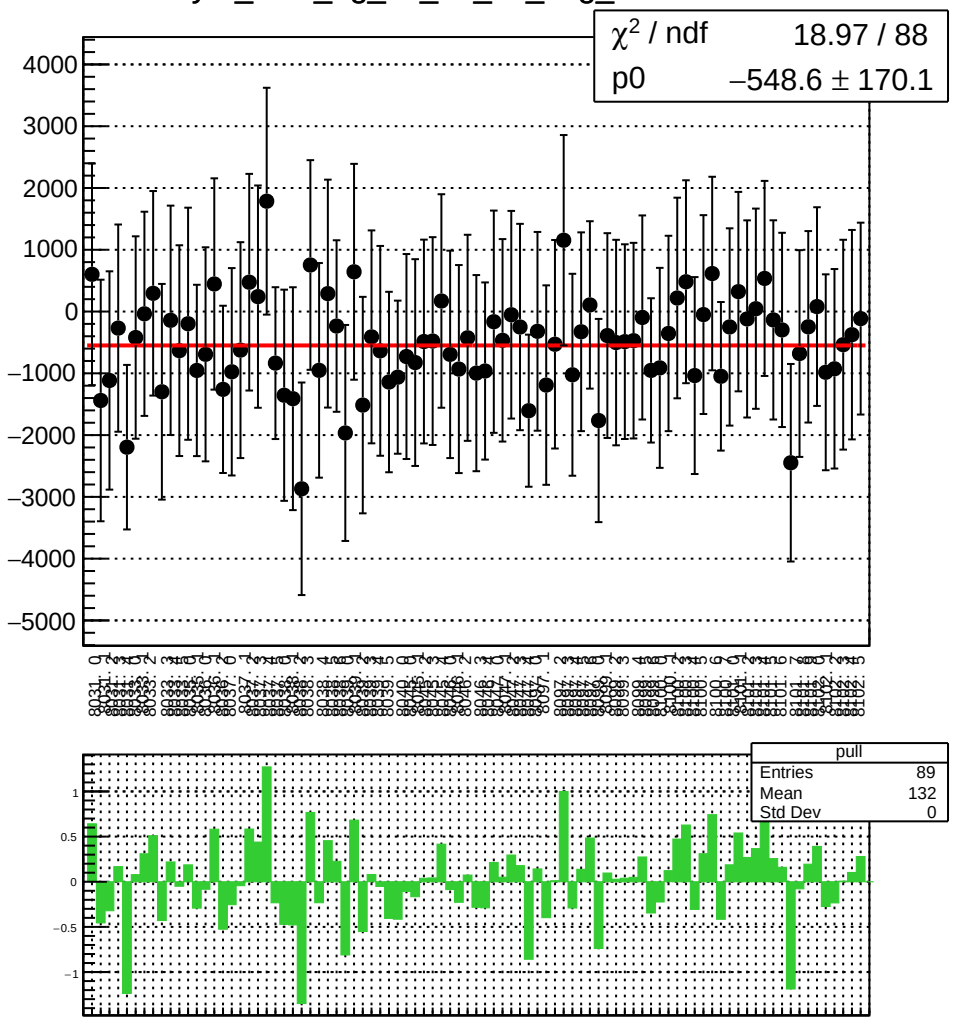

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 19 / 88
p0 −535.5 ± 170.5
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
pull
Entries 89
Mean 75.1
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean 0.01619
Std Dev 0.4617
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

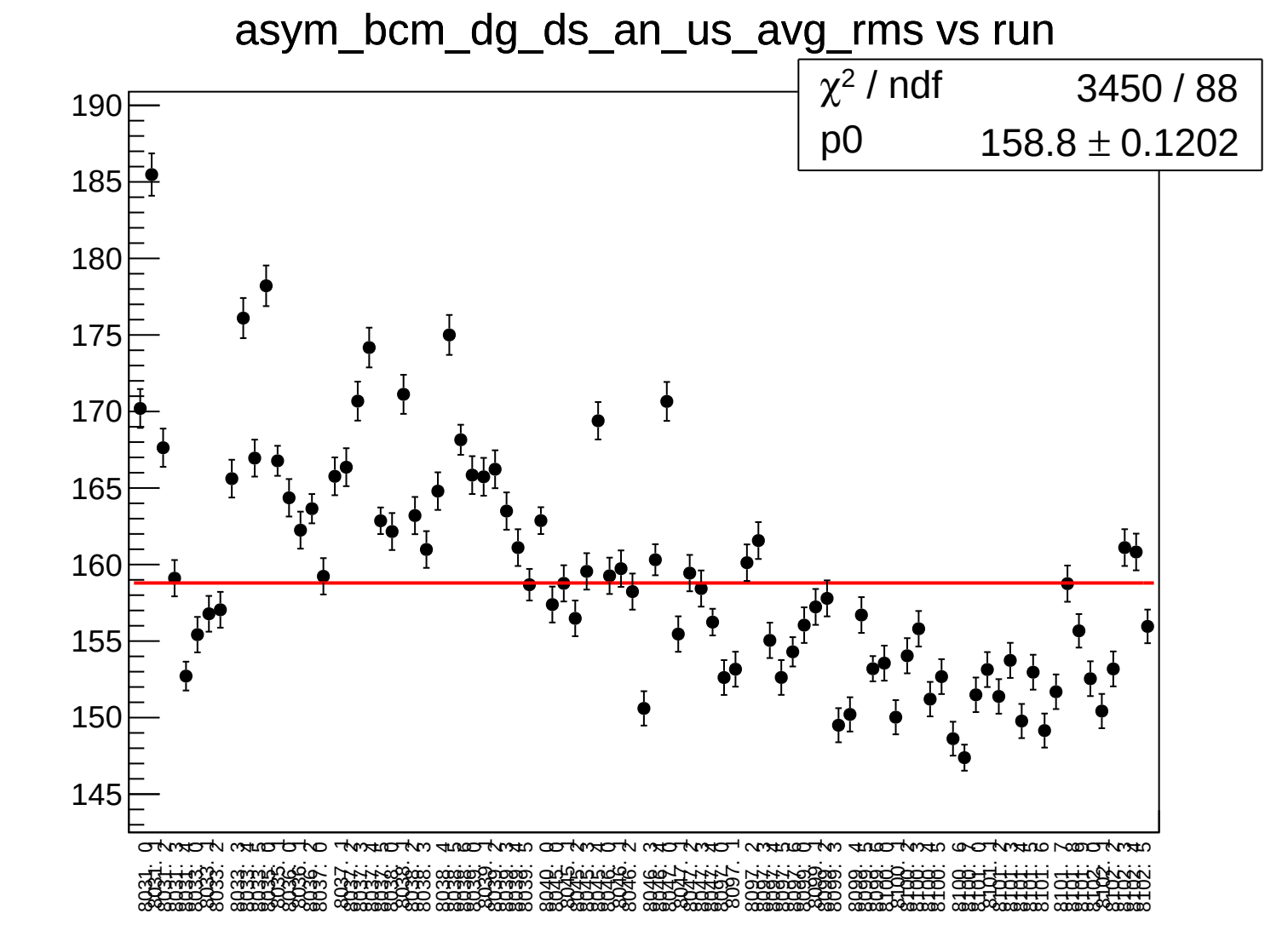

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 3485 / 88
p0 159.2 ± 0.1205
190
185
180
175
170
165
160
155
150
145

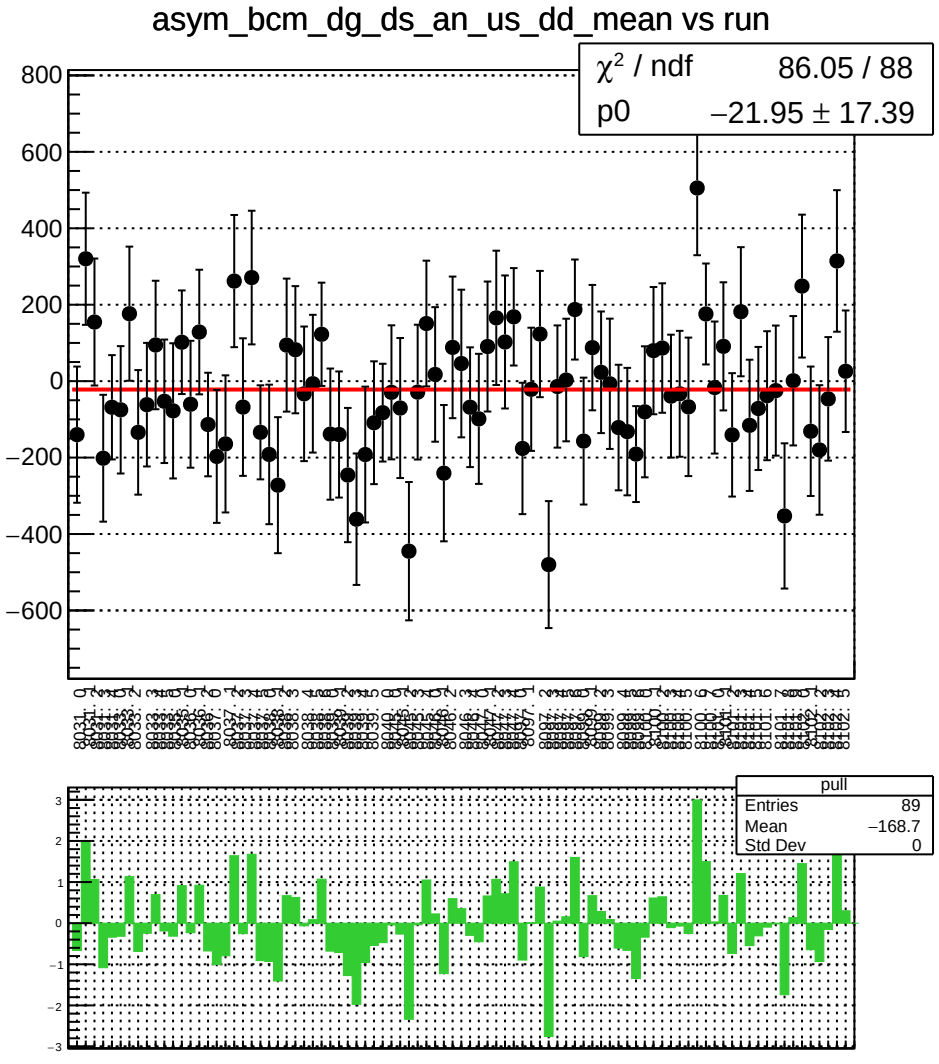

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 69.97 / 88
p0 −7.191 ± 23.21
pull
Entries 89
Mean −1409
Std Dev 0

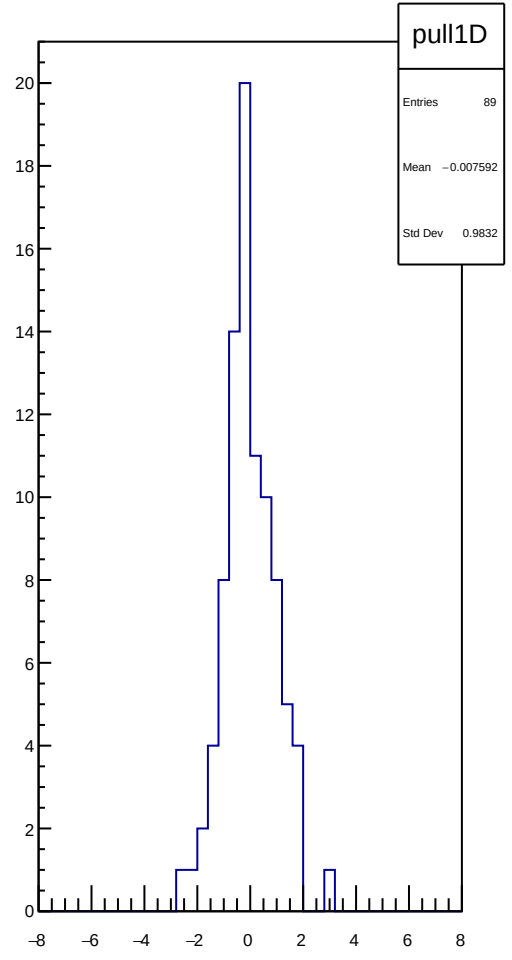

pull1D
Entries 89
Mean 0.002989
Std Dev 0.8867

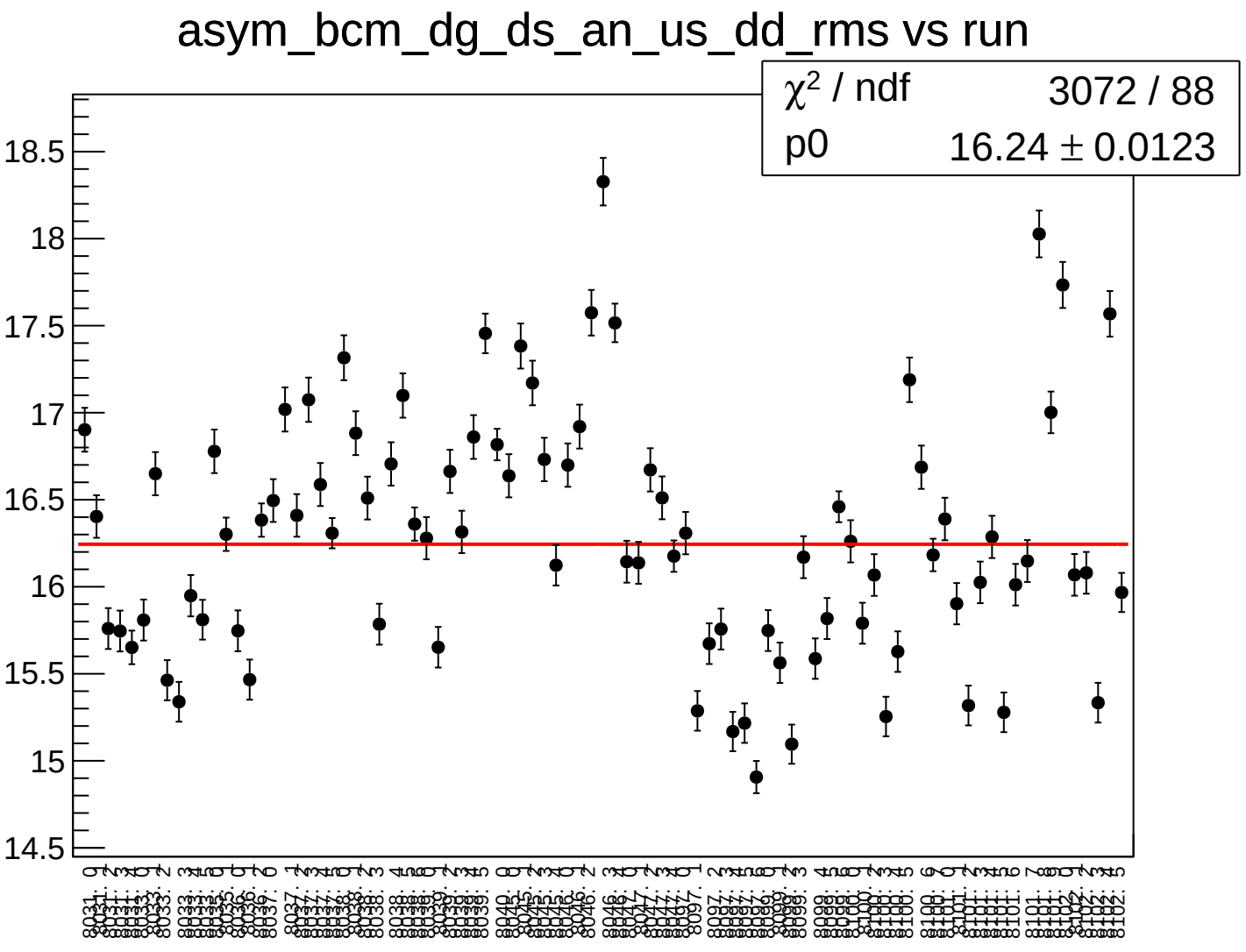

asym_bcm_dg_us_an_us_dd_rms vs run
χ² / ndf 1346 / 88
p0 21.68 ± 0.01641
23.5
23
22.5
22
21.5
21
20.5

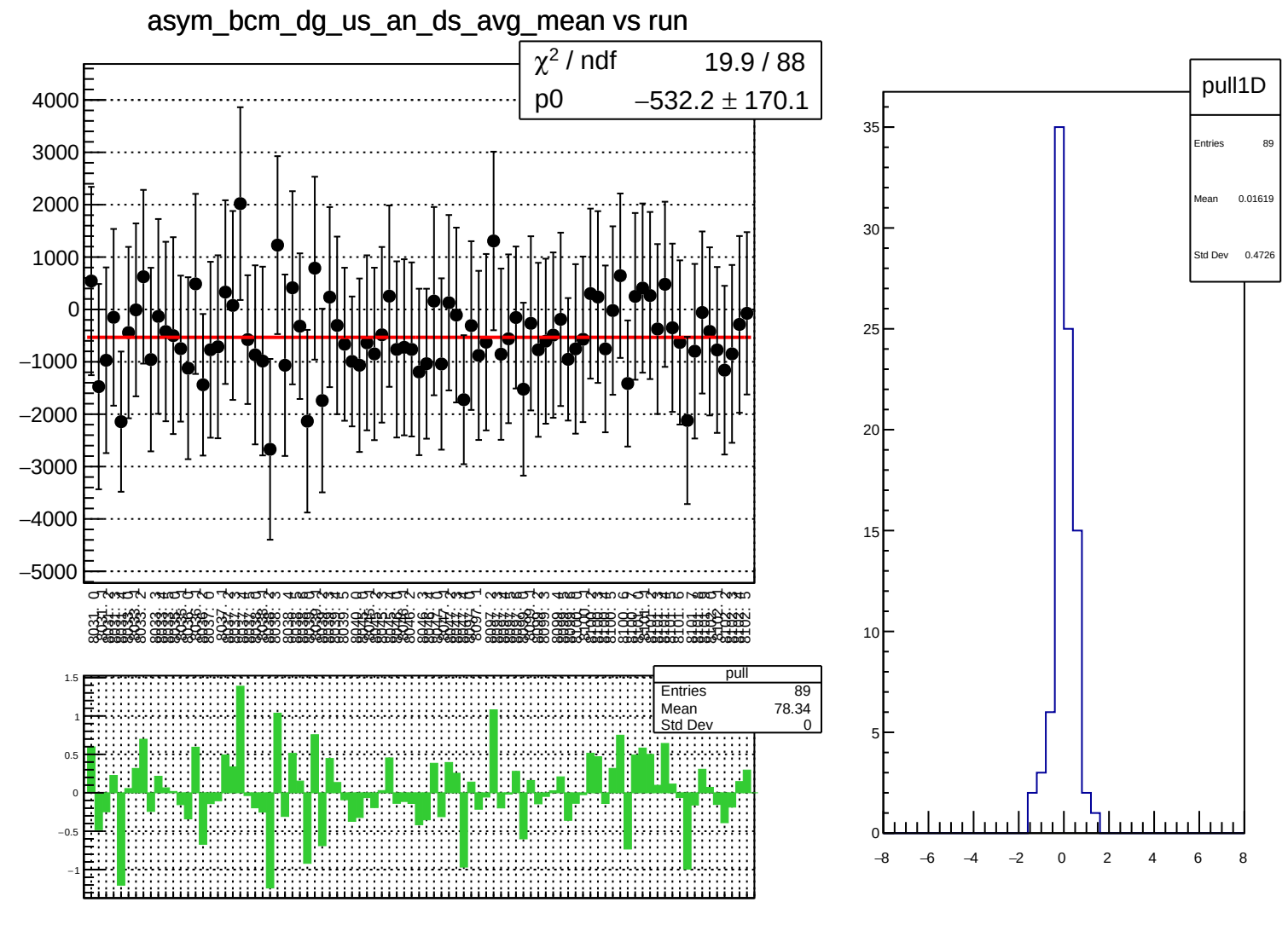

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 18.97 / 88
p0 −548.6 ± 170.1
pull
Entries 89
Mean 132
Std Dev 0
pull1D
Entries 89
Mean 0.01454
Std Dev 0.4615

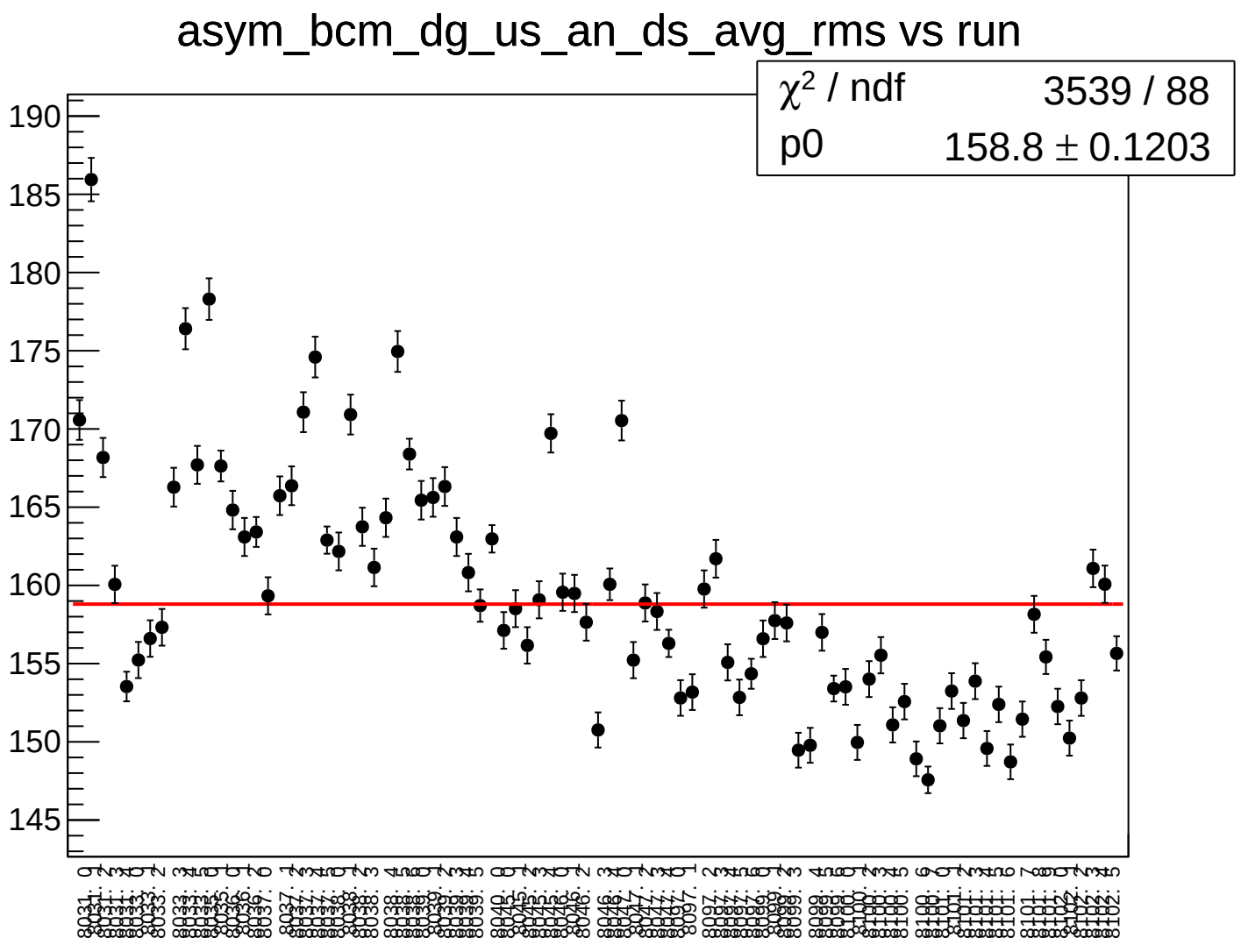

asym_bcm_dg_ds_an_us_avg_rms vs run
χ² / ndf 3450 / 88
p0 158.8 ± 0.1202
190
185
180
175
170
165
160
155
150
145

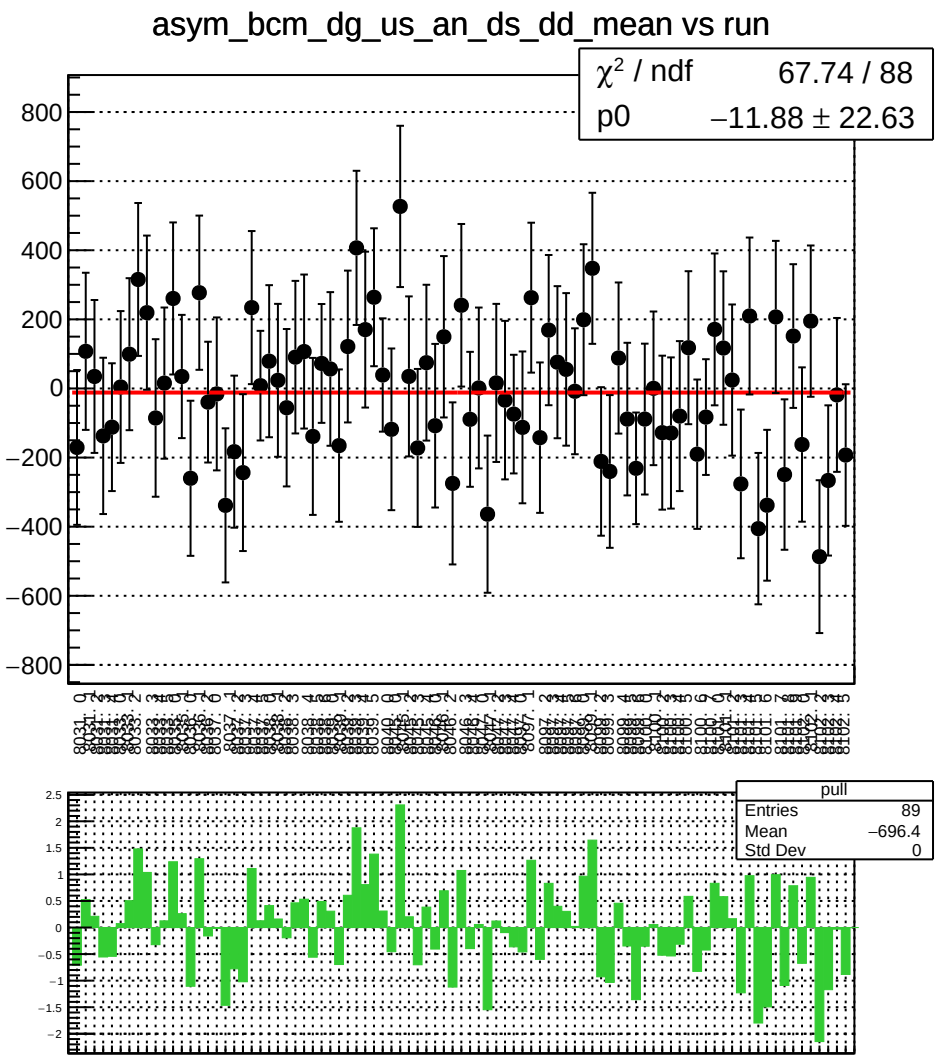

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 86.05 / 88
p0 −21.95 ± 17.39
pull
Entries 89
Mean −168.7
Std Dev 0

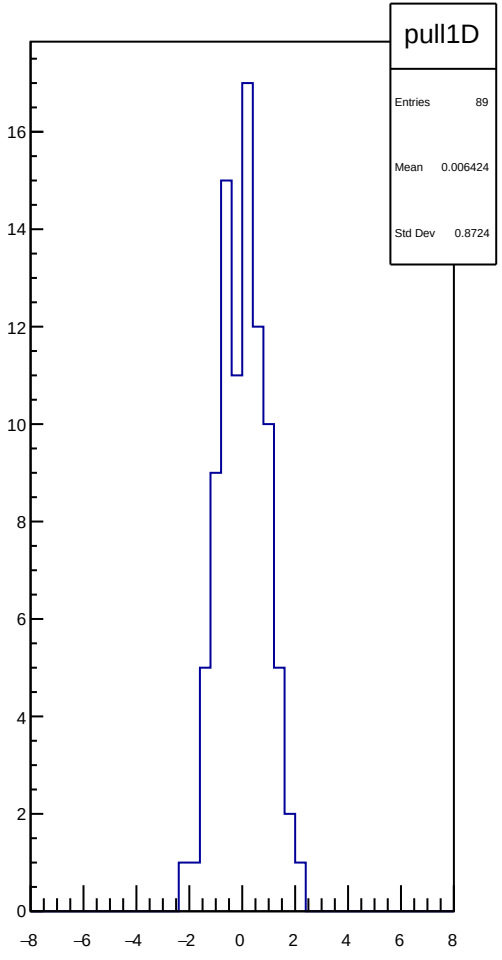

pull1D
Entries 89
Mean −0.007592
Std Dev 0.9832

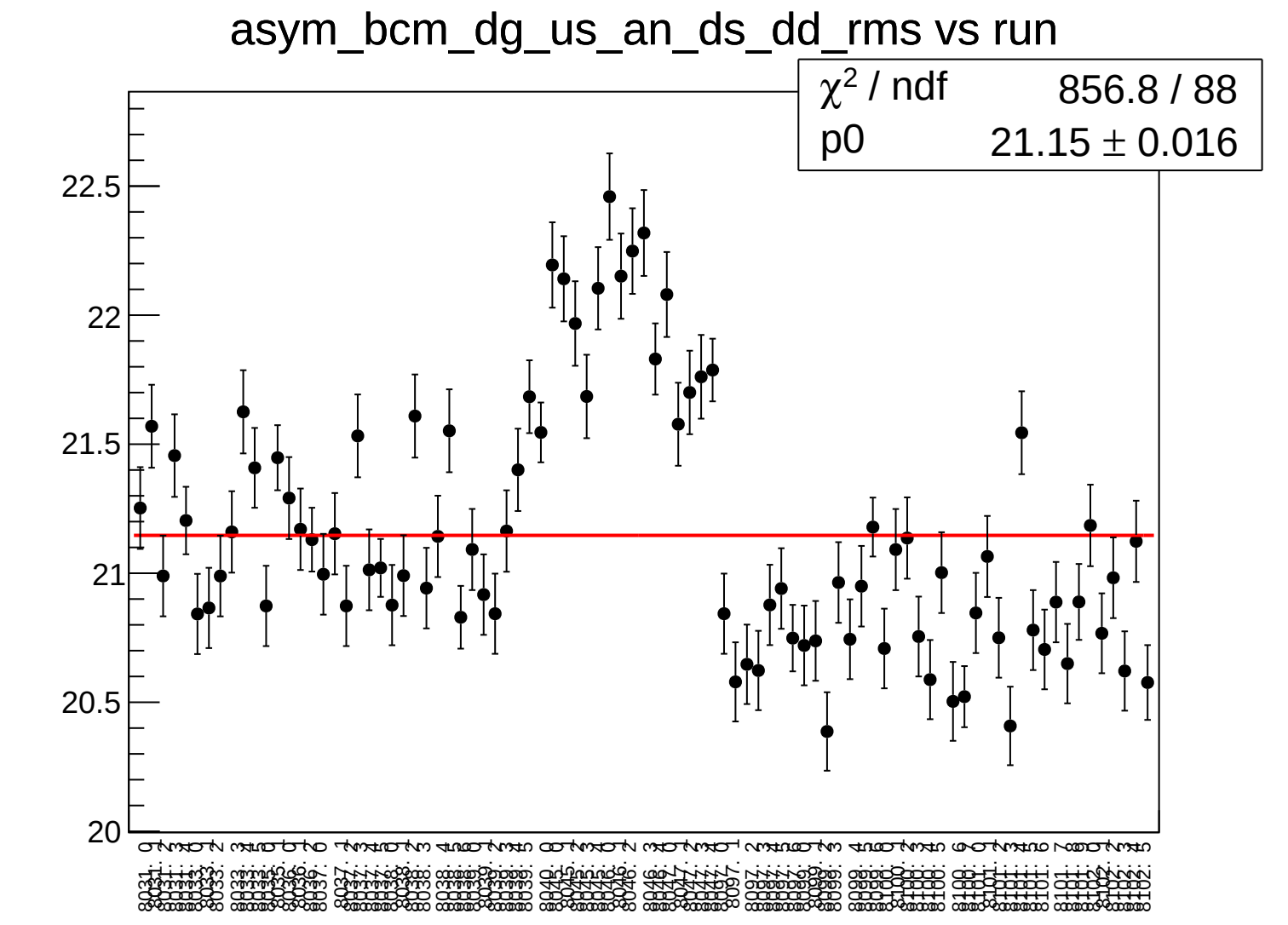

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 3072 / 88
p0 16.24 ± 0.0123
18.5
18
17.5
17
16.5
16
15.5
15
14.5

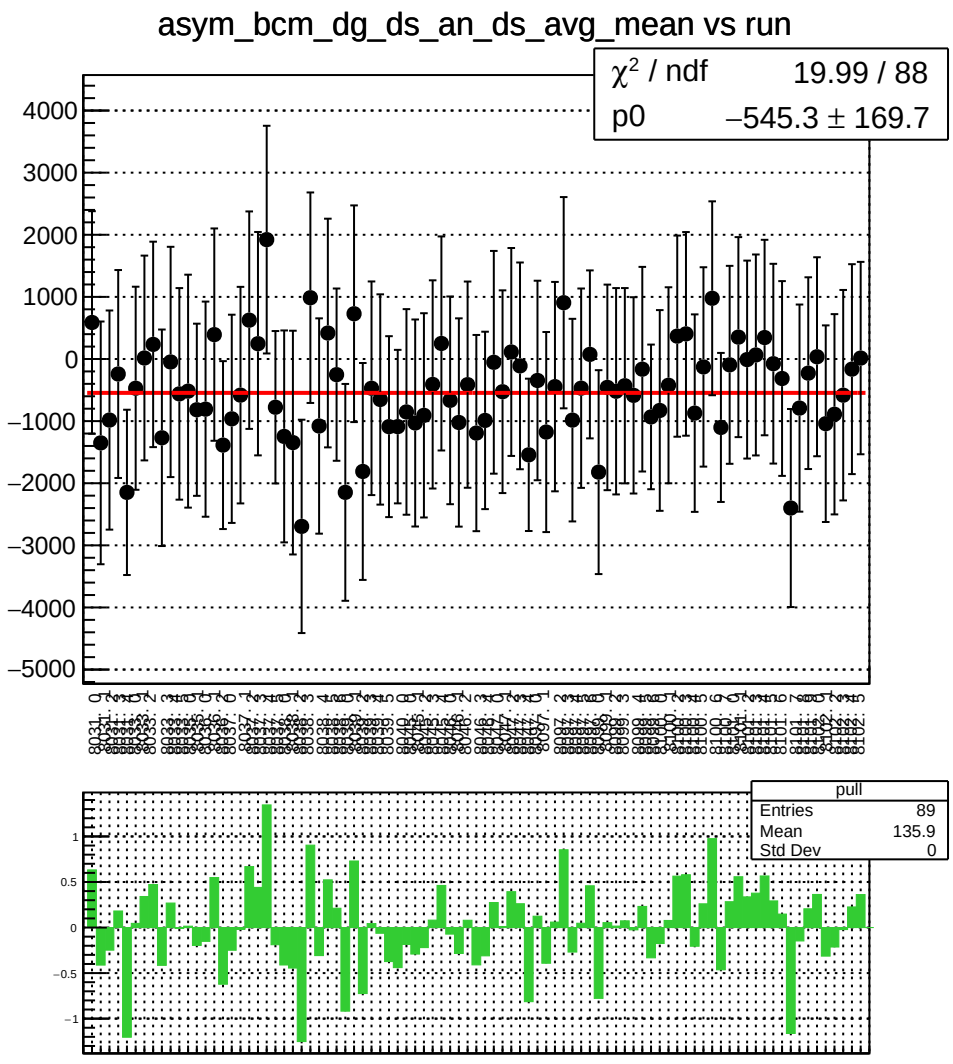

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 19.9 / 88
p0 −532.2 ± 170.1
pull
Entries 89
Mean 78.34
Std Dev 0
pull1D
Entries 89
Mean 0.01619
Std Dev 0.4726

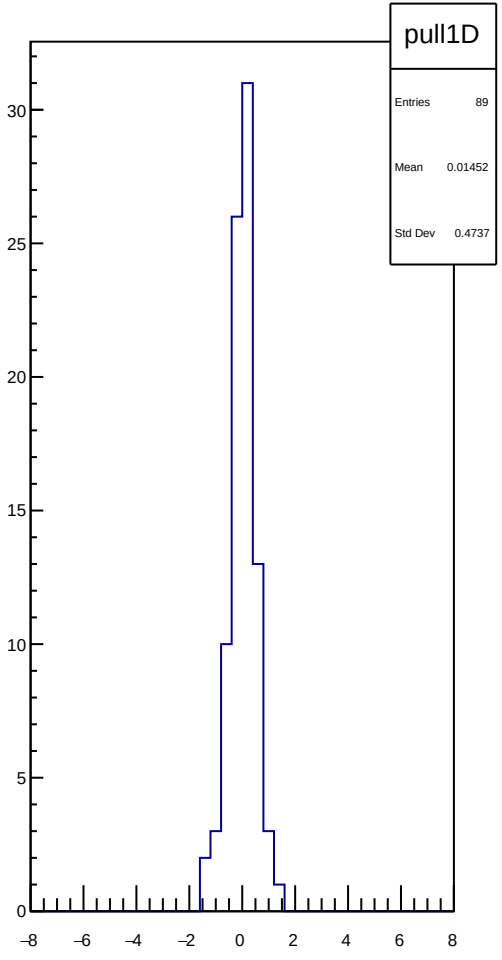

asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 3539 / 88
p0 158.8 ± 0.1203
190
185
180
175
170
165
160
155
150
145

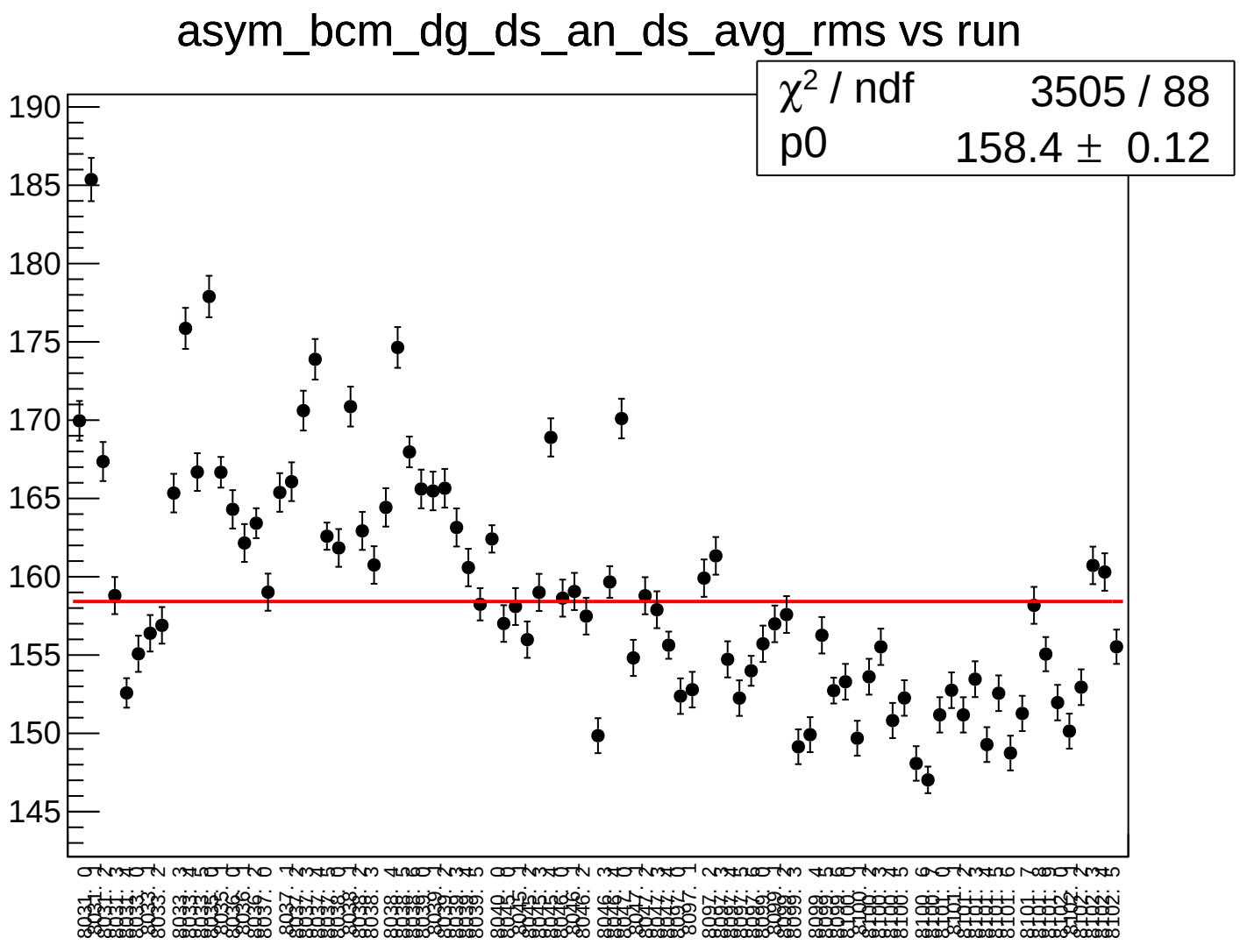

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 67.74 / 88
p0 −11.88 ± 22.63
pull
Entries 89
Mean −696.4
Std Dev 0

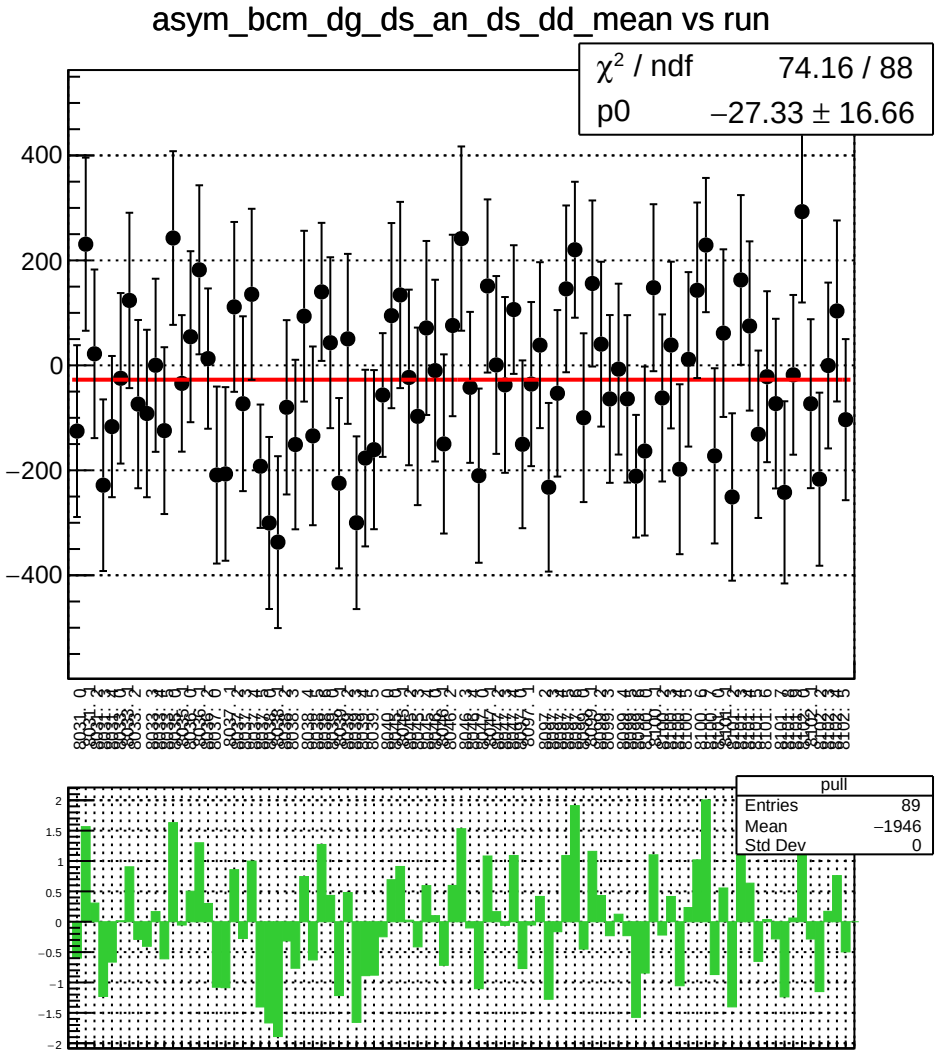

pull1D
Entries 89
Mean 0.006424
Std Dev 0.8724

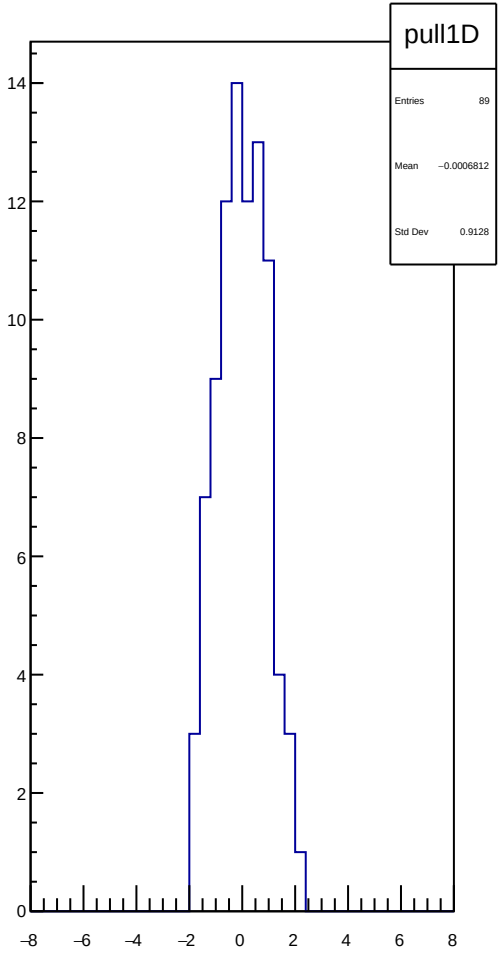

asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 856.8 / 88
p0 21.15 ± 0.016
22.5
22
21.5
21
20.5
20

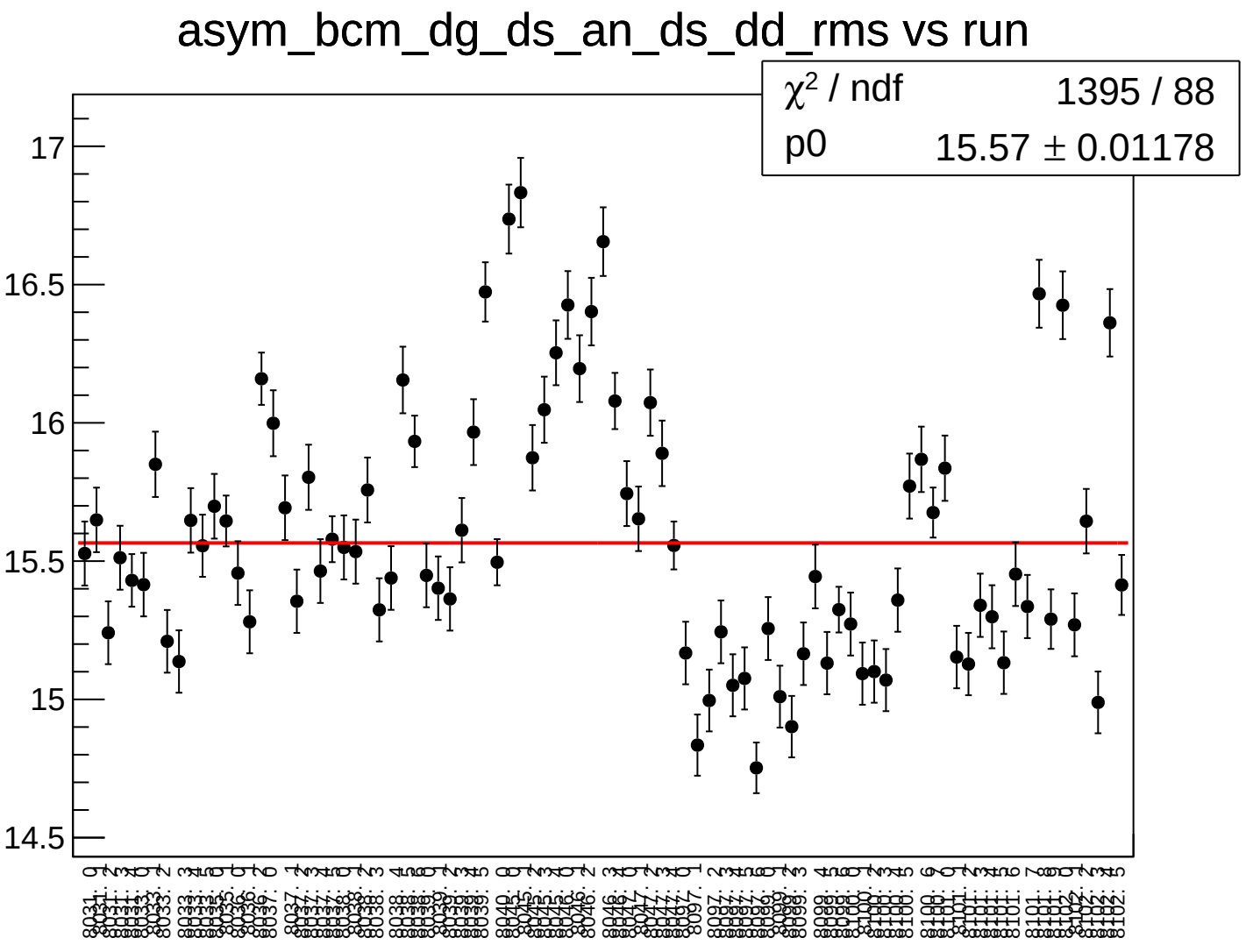

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 19.99 / 88
p0 −545.3 ± 169.7
pull
Entries 89
Mean 135.9
Std Dev 0

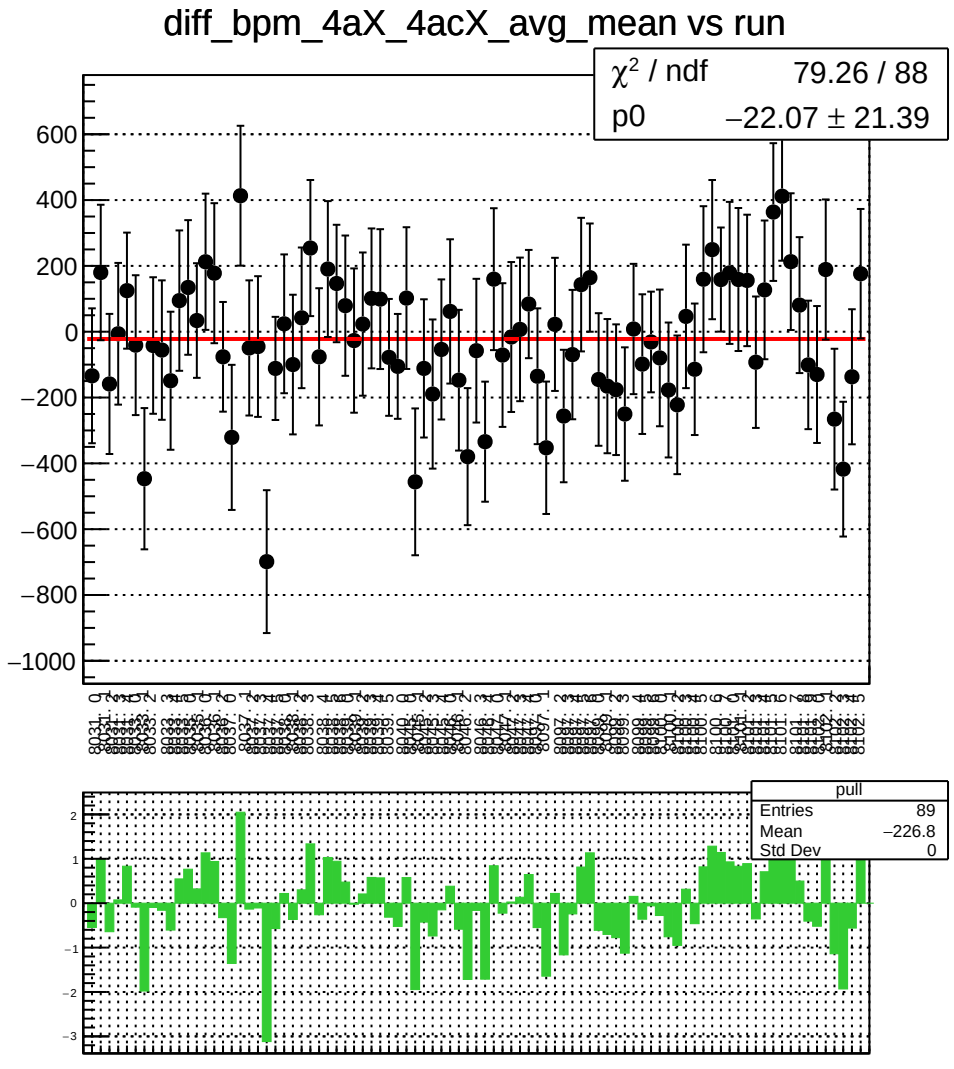

pull1D
Entries 89
Mean 0.01452
Std Dev 0.4737

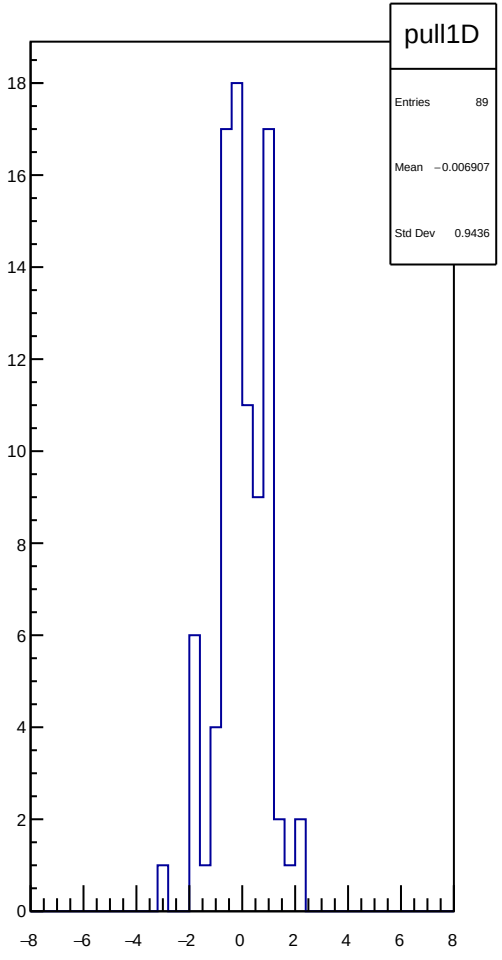

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ² / ndf 3505 / 88
p0 158.4 ± 0.12
190
185
180
175
170
165
160
155
150
145

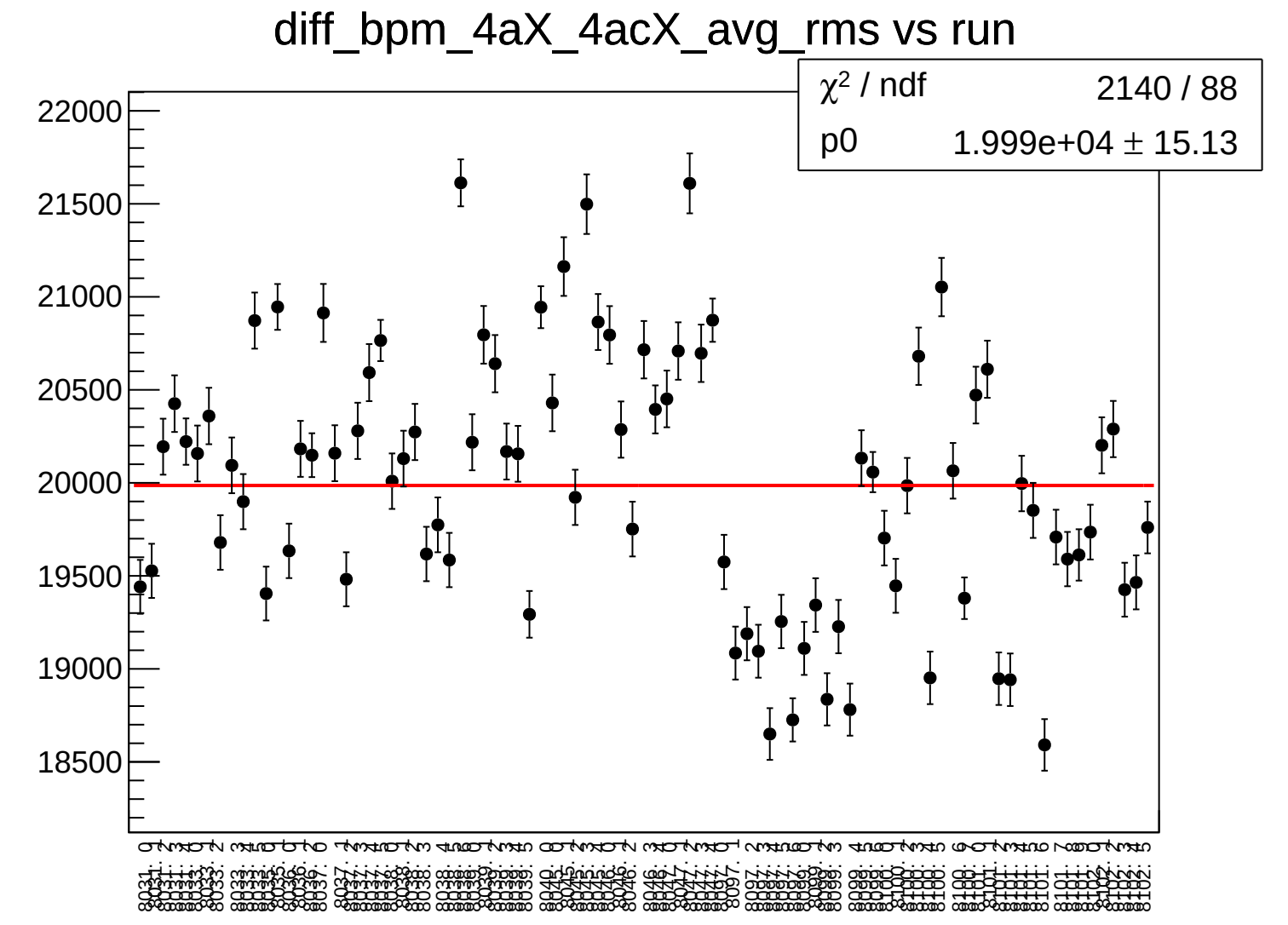

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 74.16 / 88
p0 −27.33 ± 16.66
400
200
0
−200
−400
pull
Entries 89
Mean −1946
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

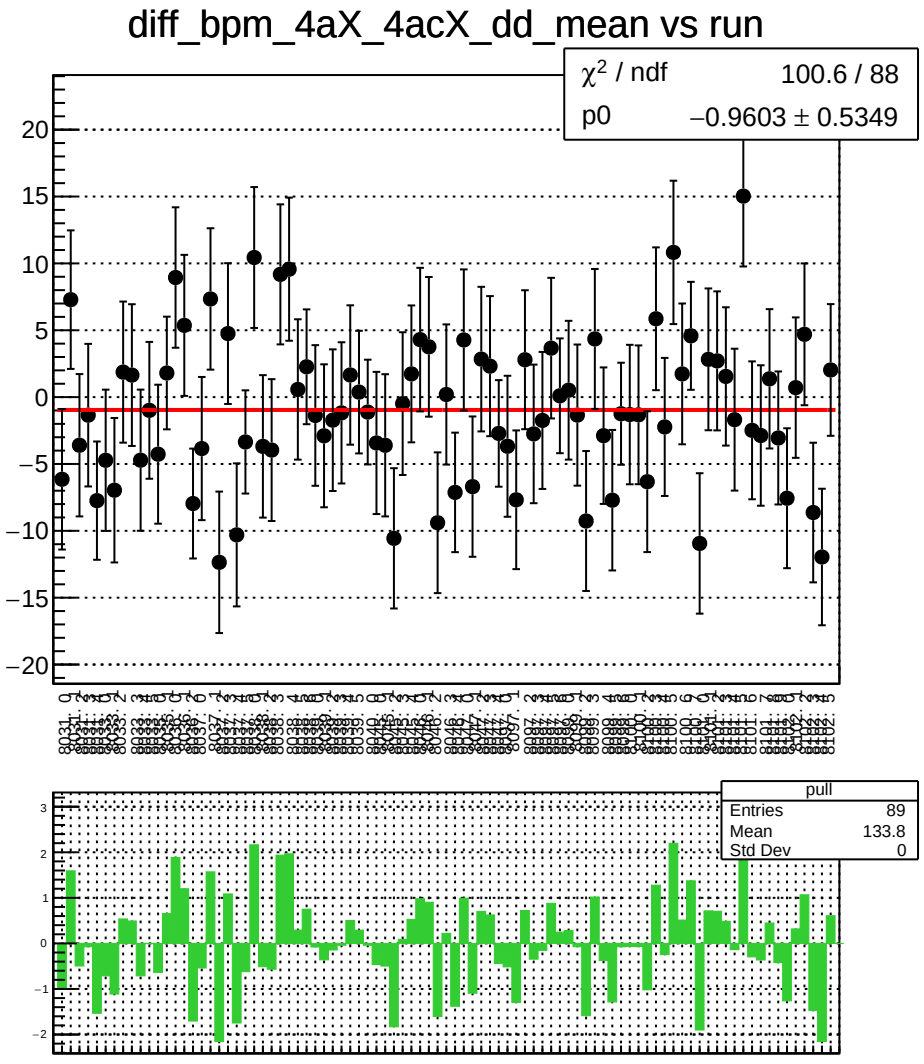

pull1D
Entries 89
Mean −0.0006812
Std Dev 0.9128
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

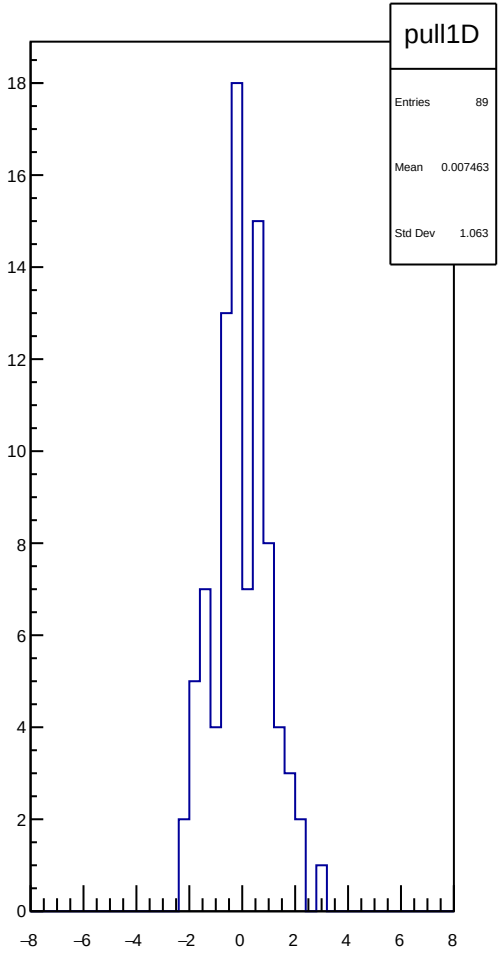

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 1395 / 88
p0 15.57 ± 0.01178
17
16.5
16
15.5
15
14.5

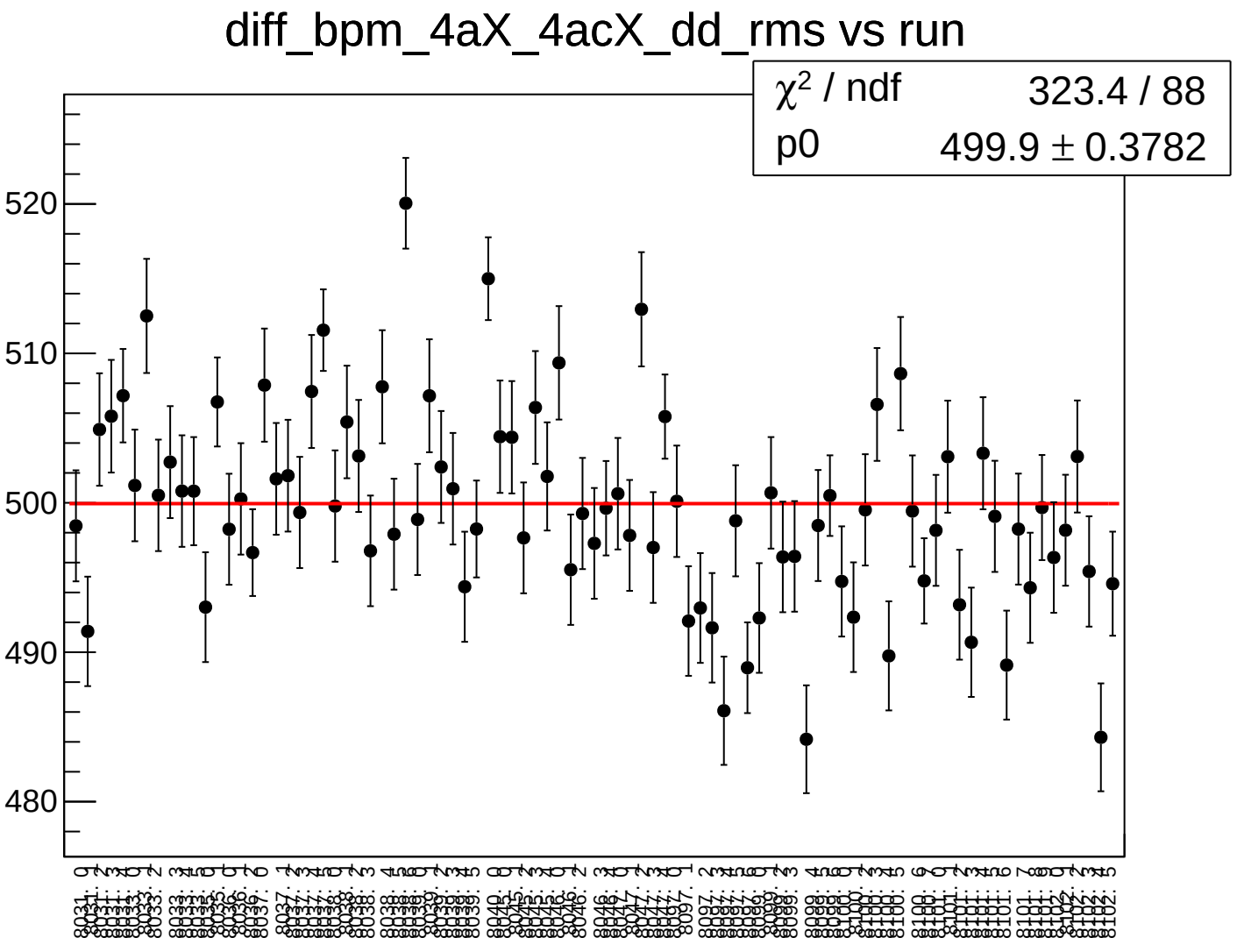

diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 79.26 / 88
p0 −22.07 ± 21.39
pull
Entries 89
Mean −226.8
Std Dev 0

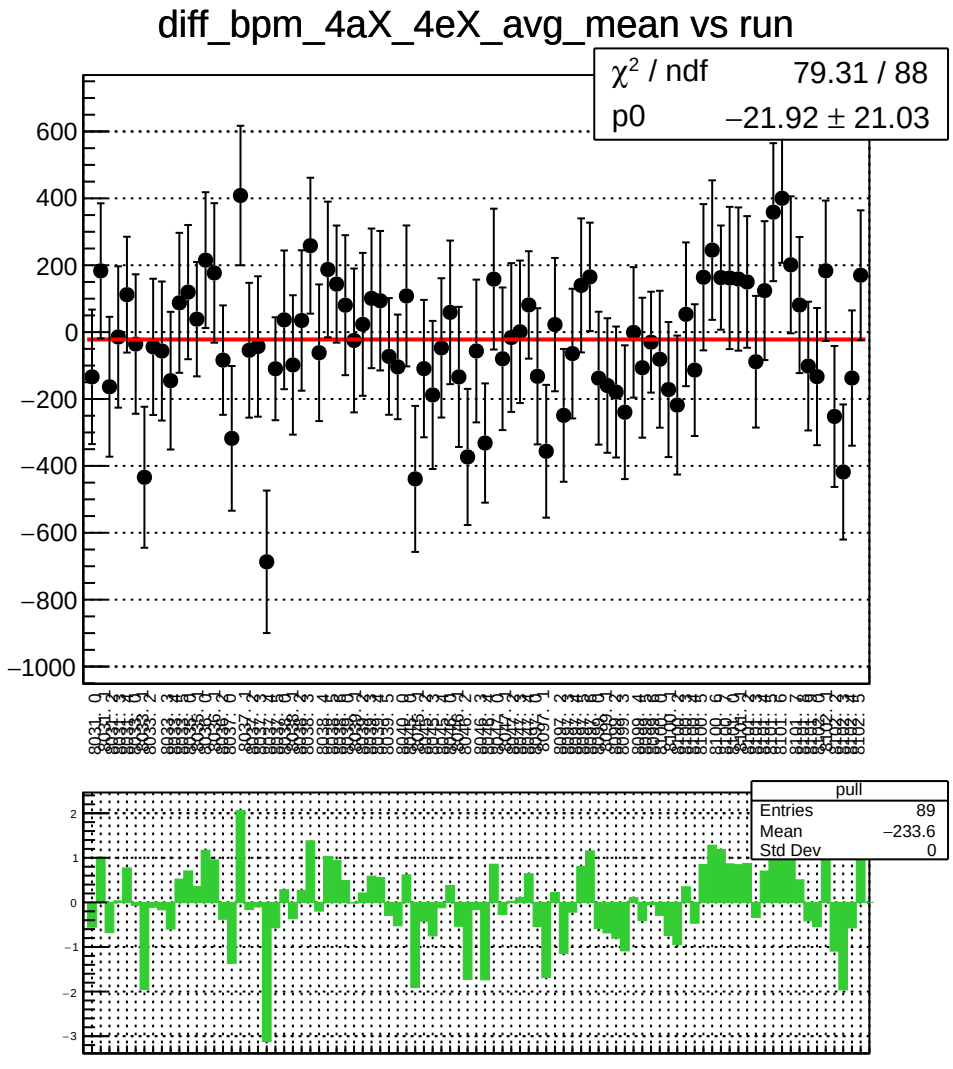

pull1D
Entries 89
Mean −0.006907
Std Dev 0.9436

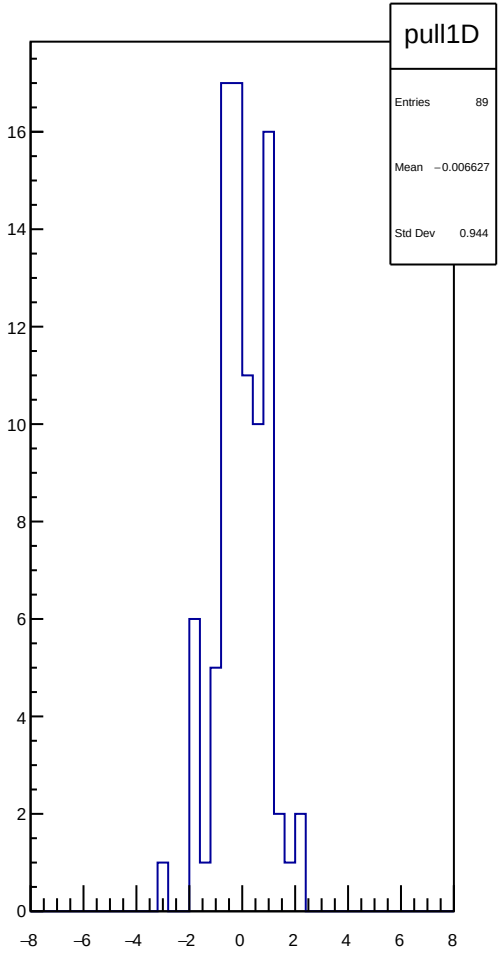

diff_bpm_4aX_4acX_avg_rms vs run
χ² / ndf 2140 / 88
p0 1.999e+04 ± 15.13
22000
21500
21000
20500
20000
19500
19000
18500

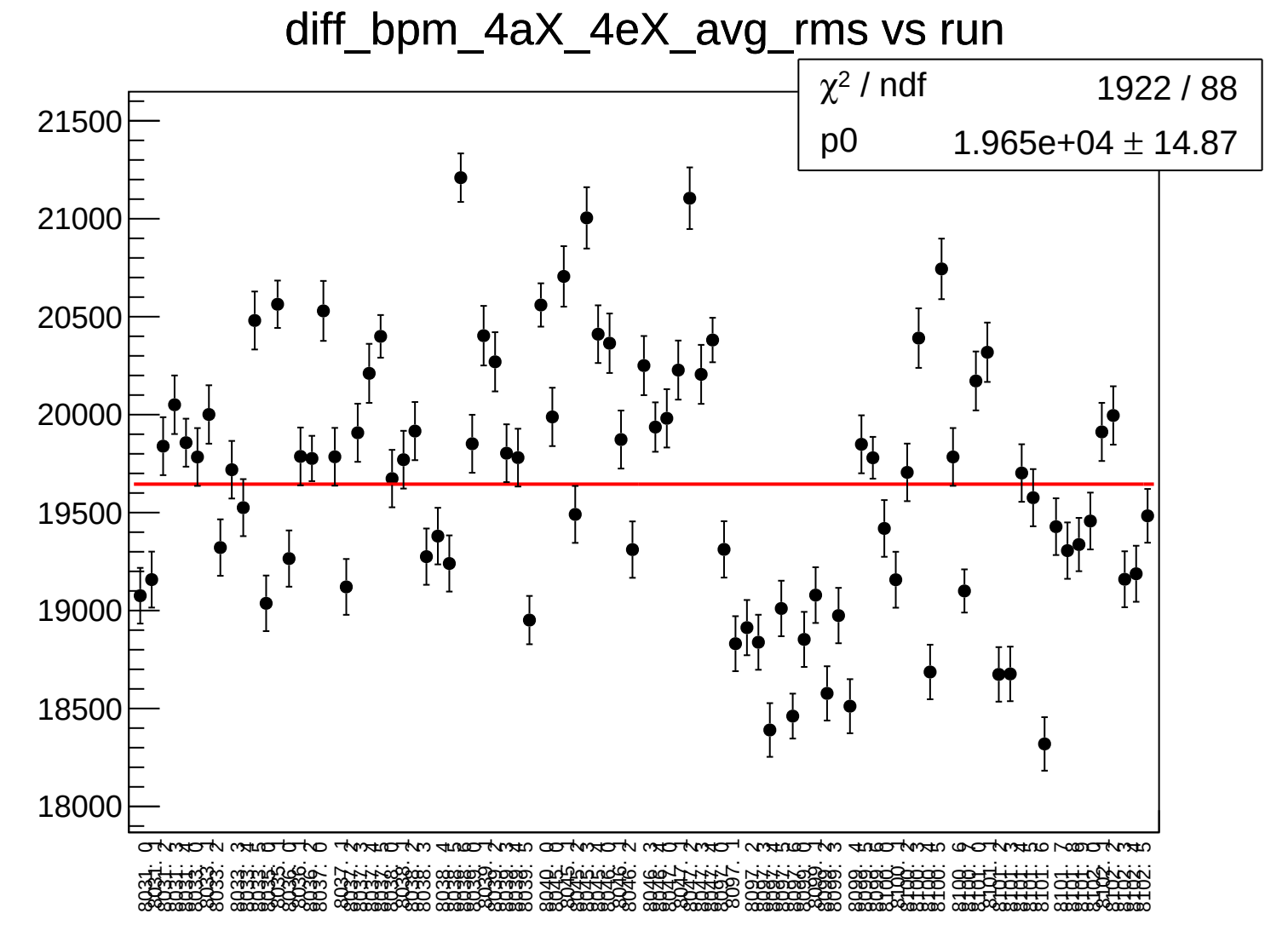

diff_bpm_4aX_4acX_dd_mean vs run
χ² / ndf 100.6 / 88
p0 −0.9603 ± 0.5349
pull
Entries 89
Mean 133.8
Std Dev 0

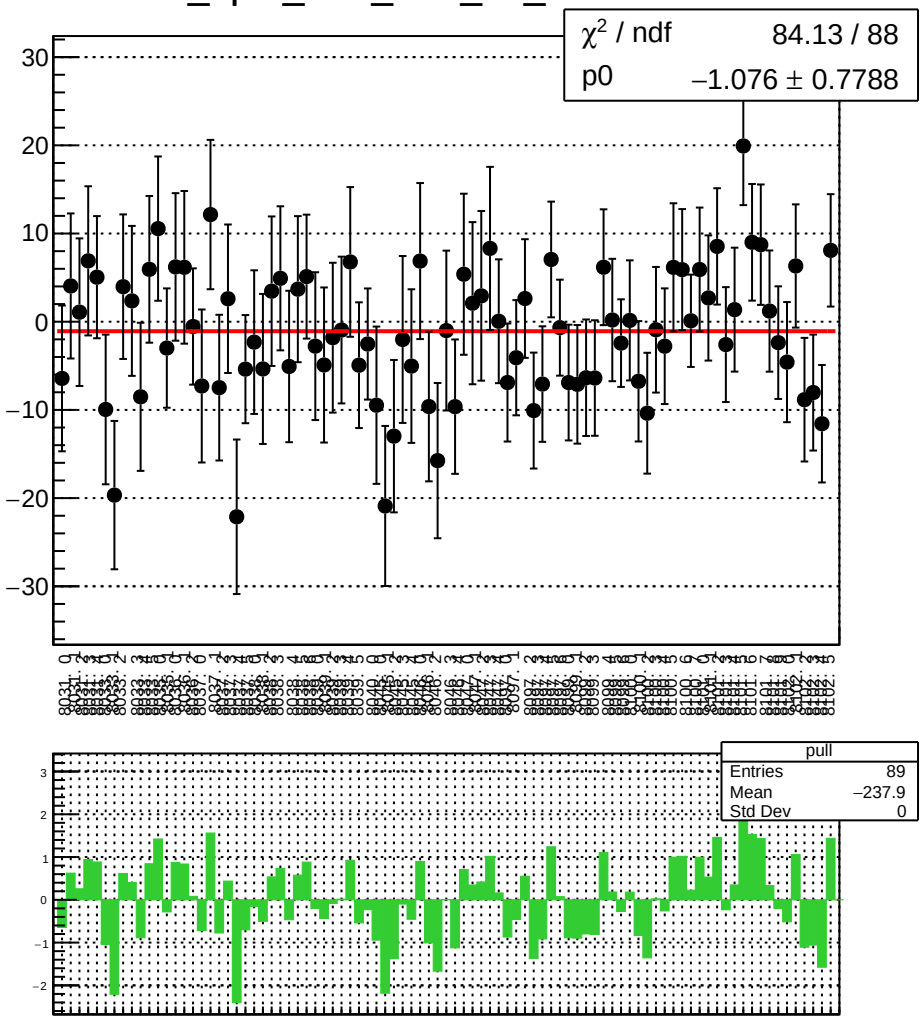

pull1D
Entries 89
Mean 0.007463
Std Dev 1.063

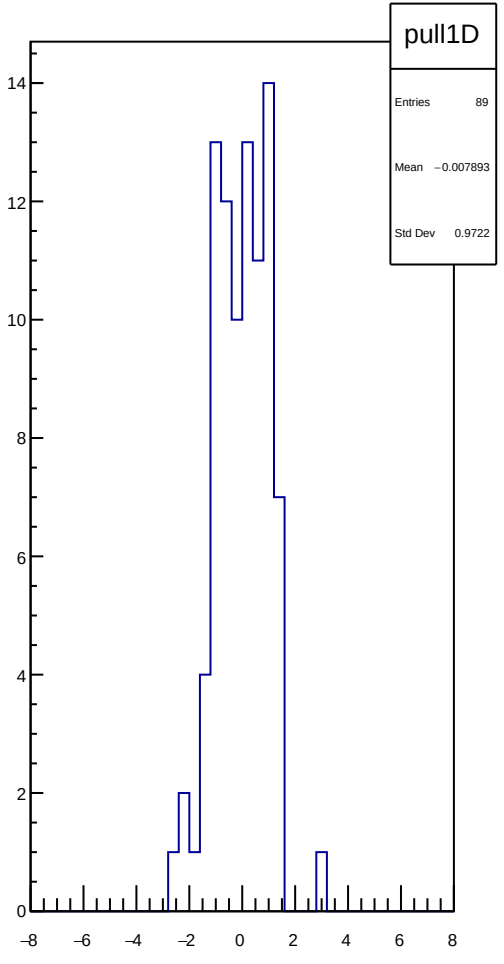

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 323.4 / 88
p0 499.9 ± 0.3782
520
510
500
490
480

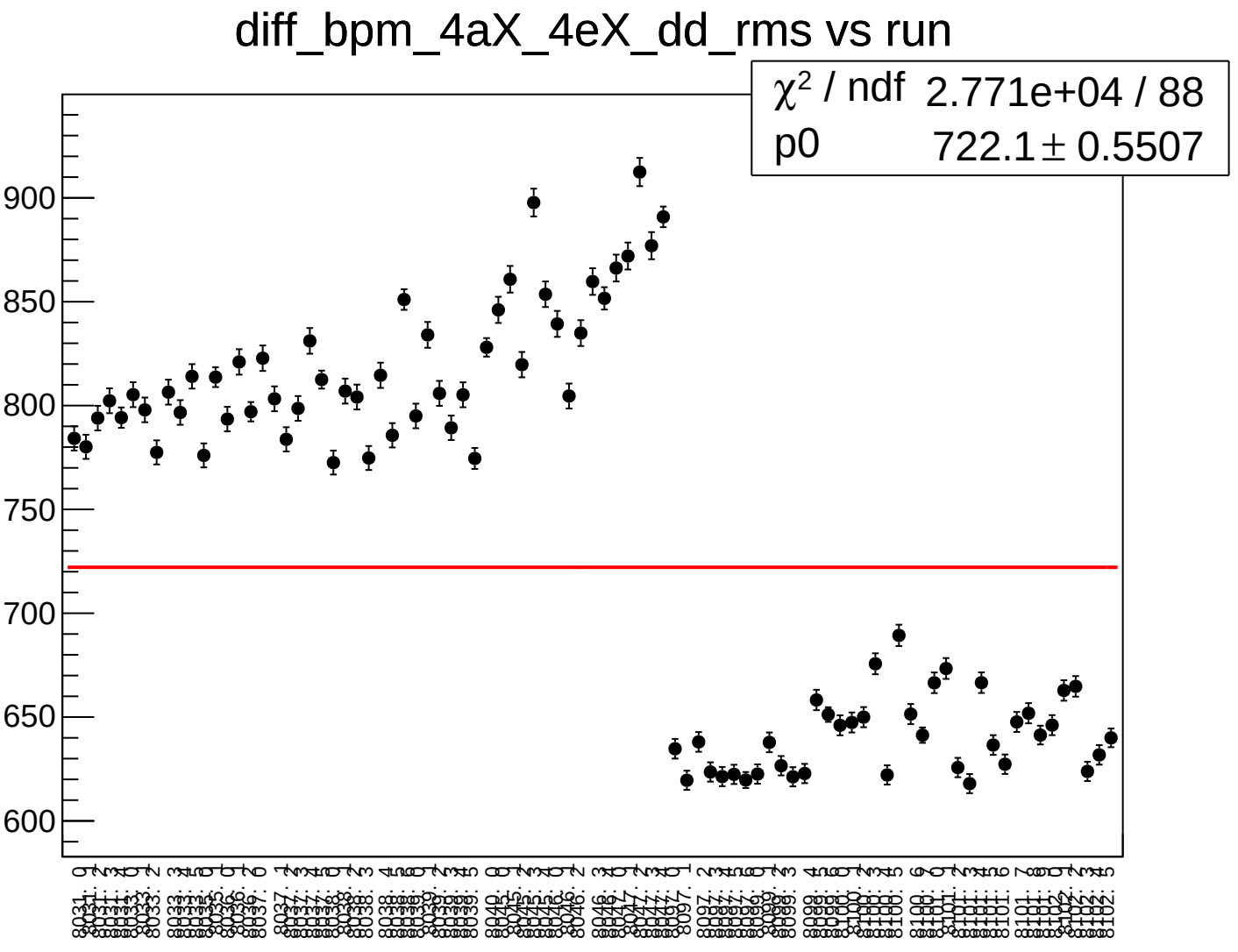

diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 79.31 / 88
p0 −21.92 ± 21.03
pull
Entries 89
Mean −233.6
Std Dev 0

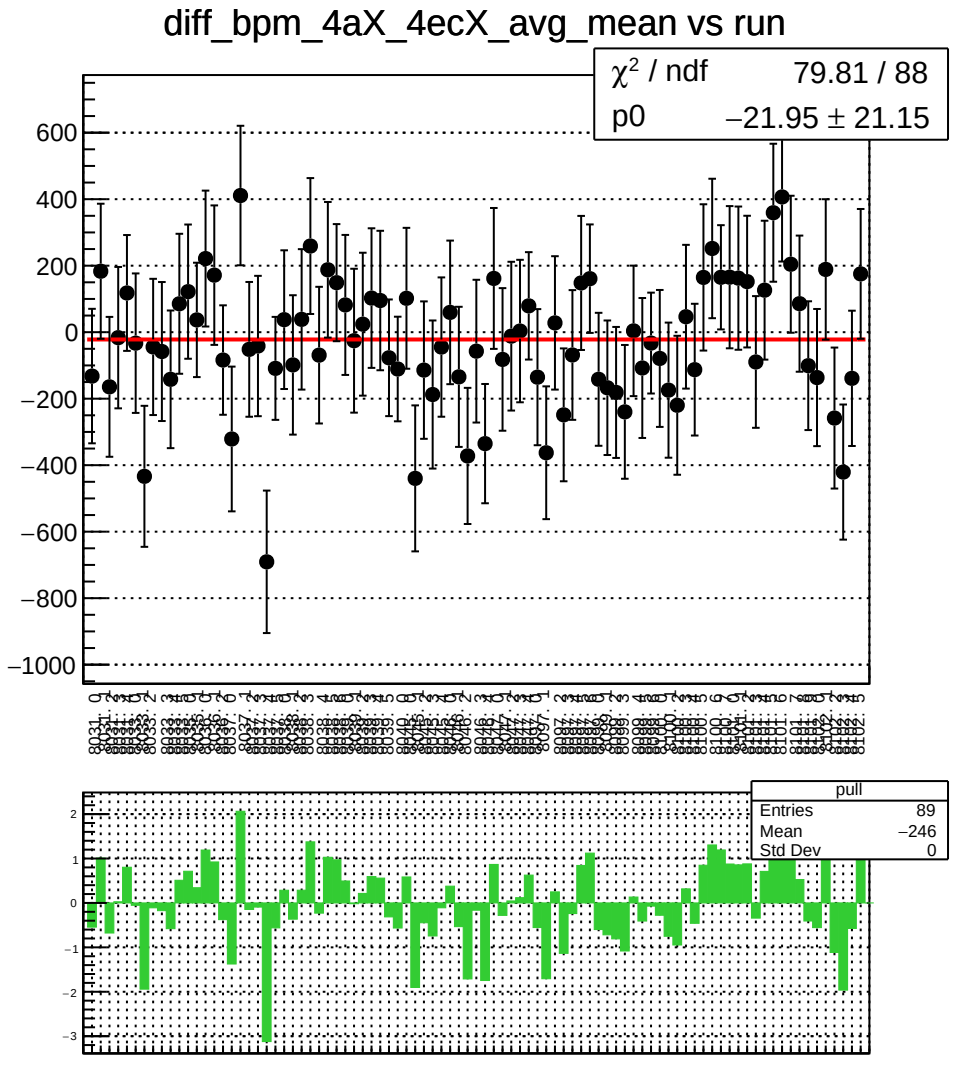

pull1D
Entries 89
Mean −0.006627
Std Dev 0.944

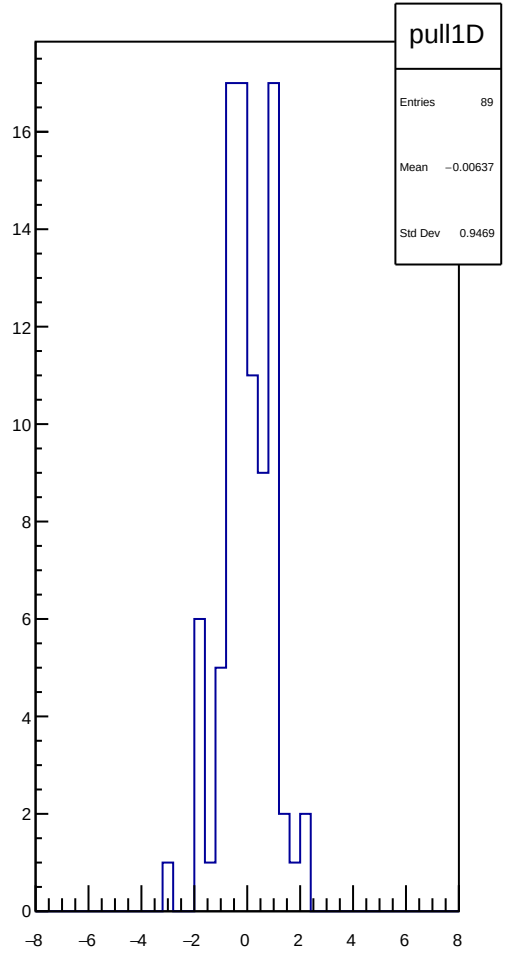

diff_bpm_4aX_4eX_avg_rms vs run
χ² / ndf 1922 / 88
p0 1.965e+04 ± 14.87
21500
21000
20500
20000
19500
19000
18500
18000

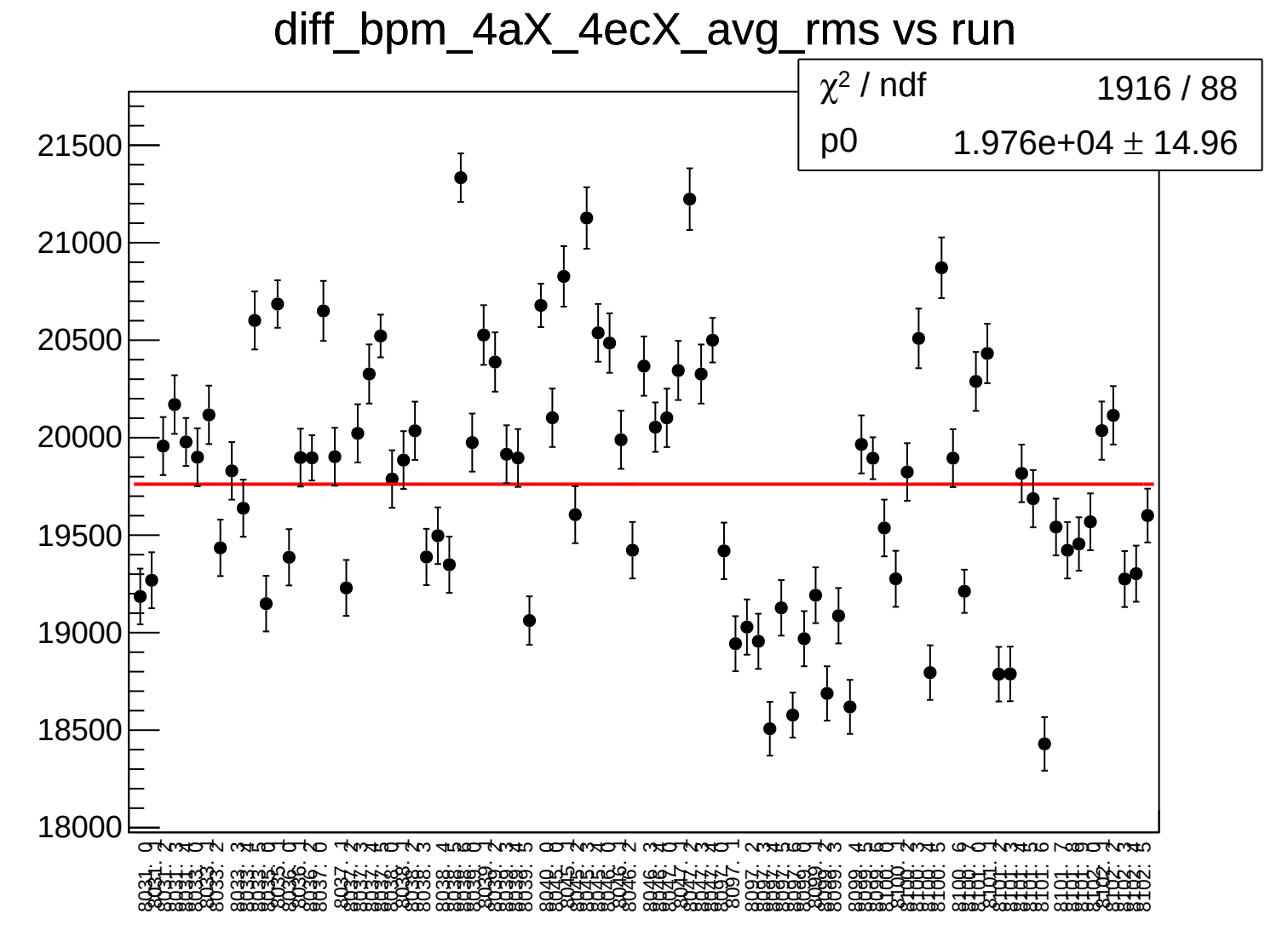

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 84.13 / 88
p0 −1.076 ± 0.7788
pull
Entries 89
Mean −237.9
Std Dev 0

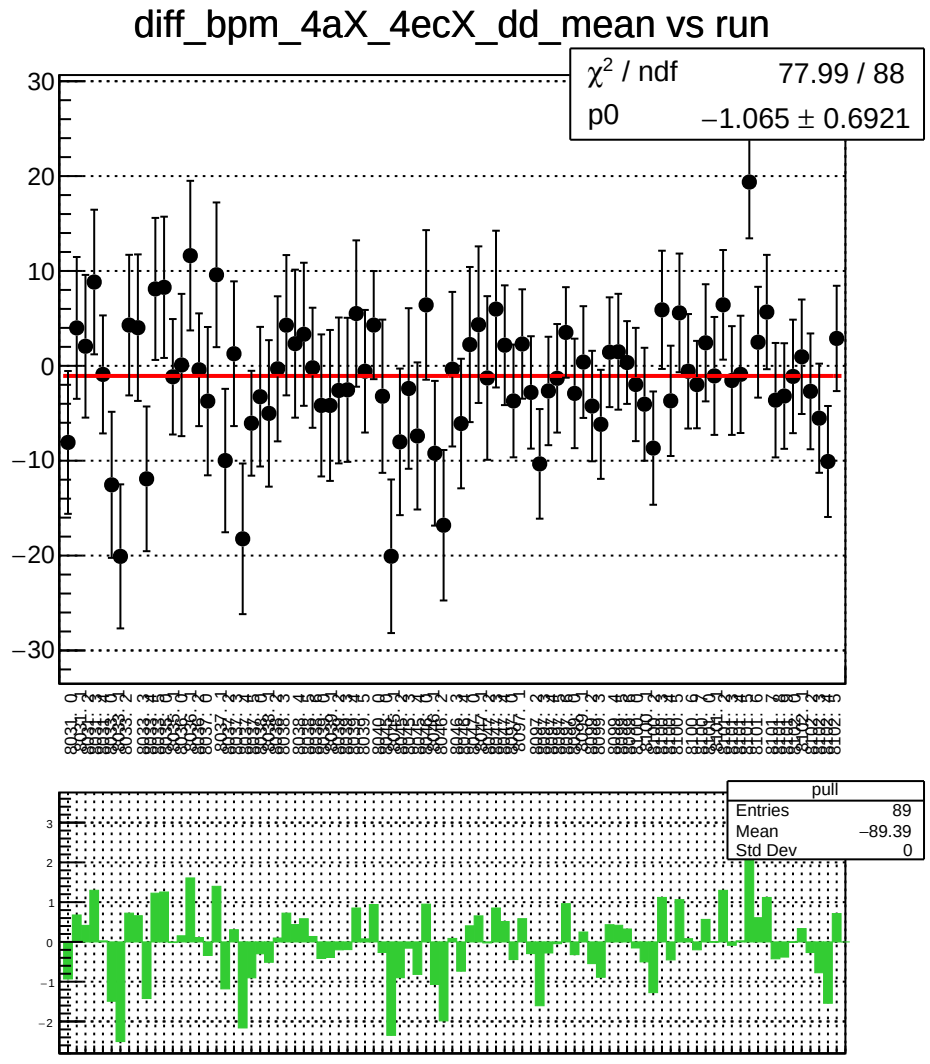

pull1D
Entries 89
Mean −0.007893
Std Dev 0.9722

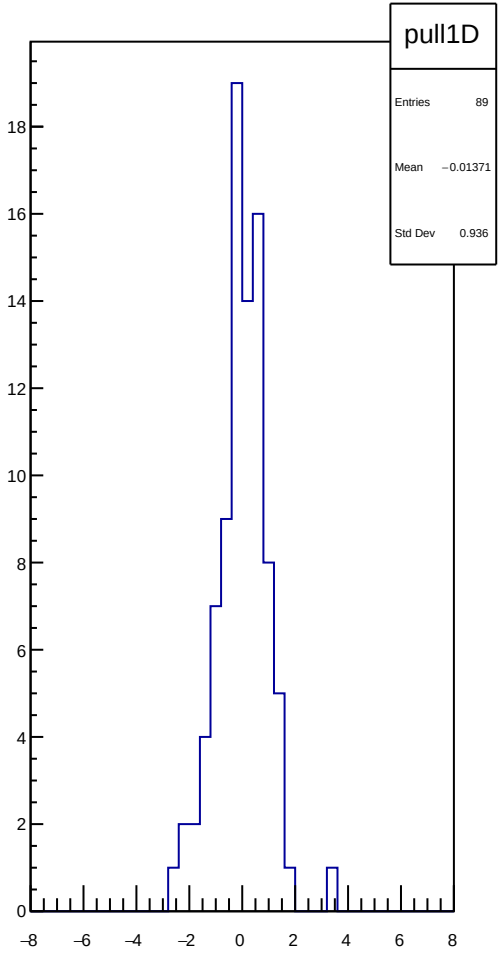

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 2.771e+04 / 88
p0 722.1 ± 0.5507
900
850
800
750
700
650
600

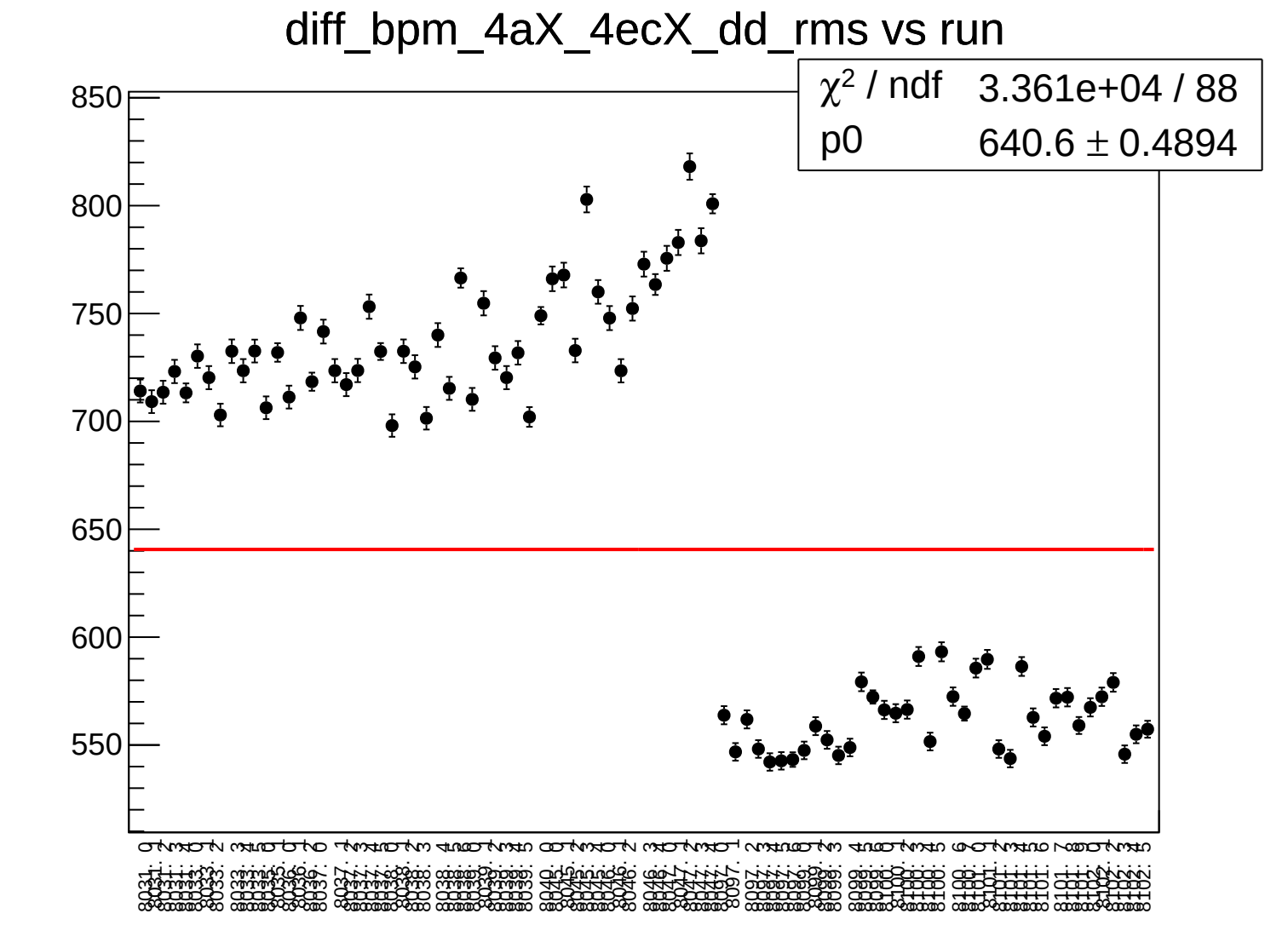

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 79.81 / 88
p0 −21.95 ± 21.15
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 89
Mean −246
Std Dev 0
2
1
0
−1
−2
−3

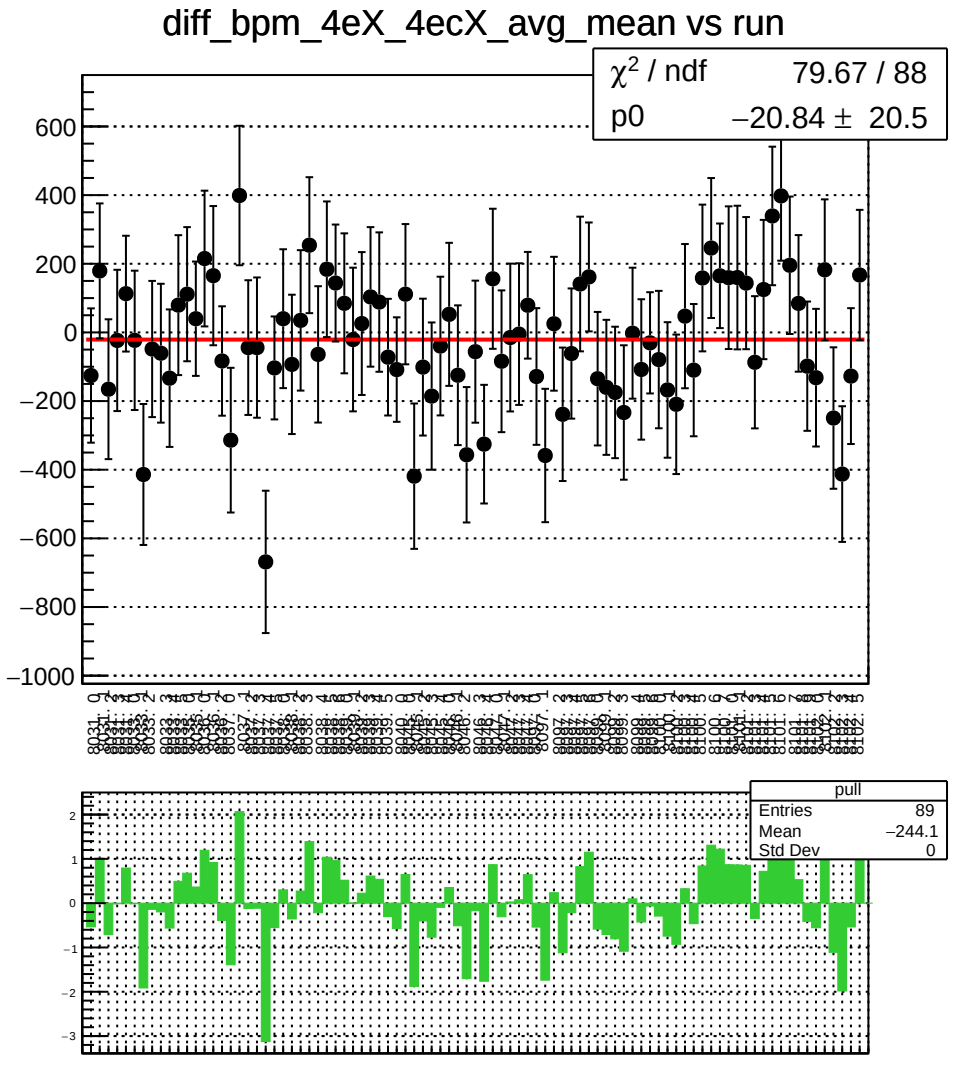

pull1D
Entries 89
Mean −0.00637
Std Dev 0.9469
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

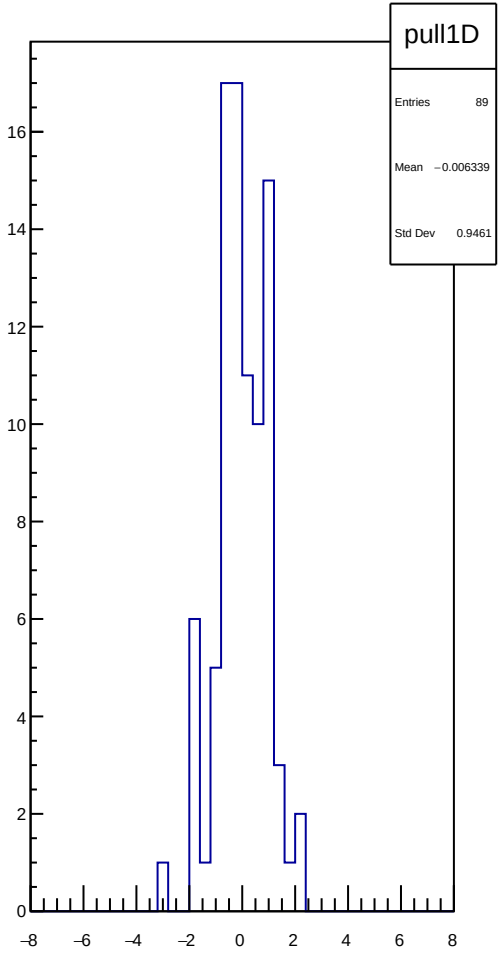

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 1916 / 88
p0 1.976e+04 ± 14.96
21500
21000
20500
20000
19500
19000
18500
18000

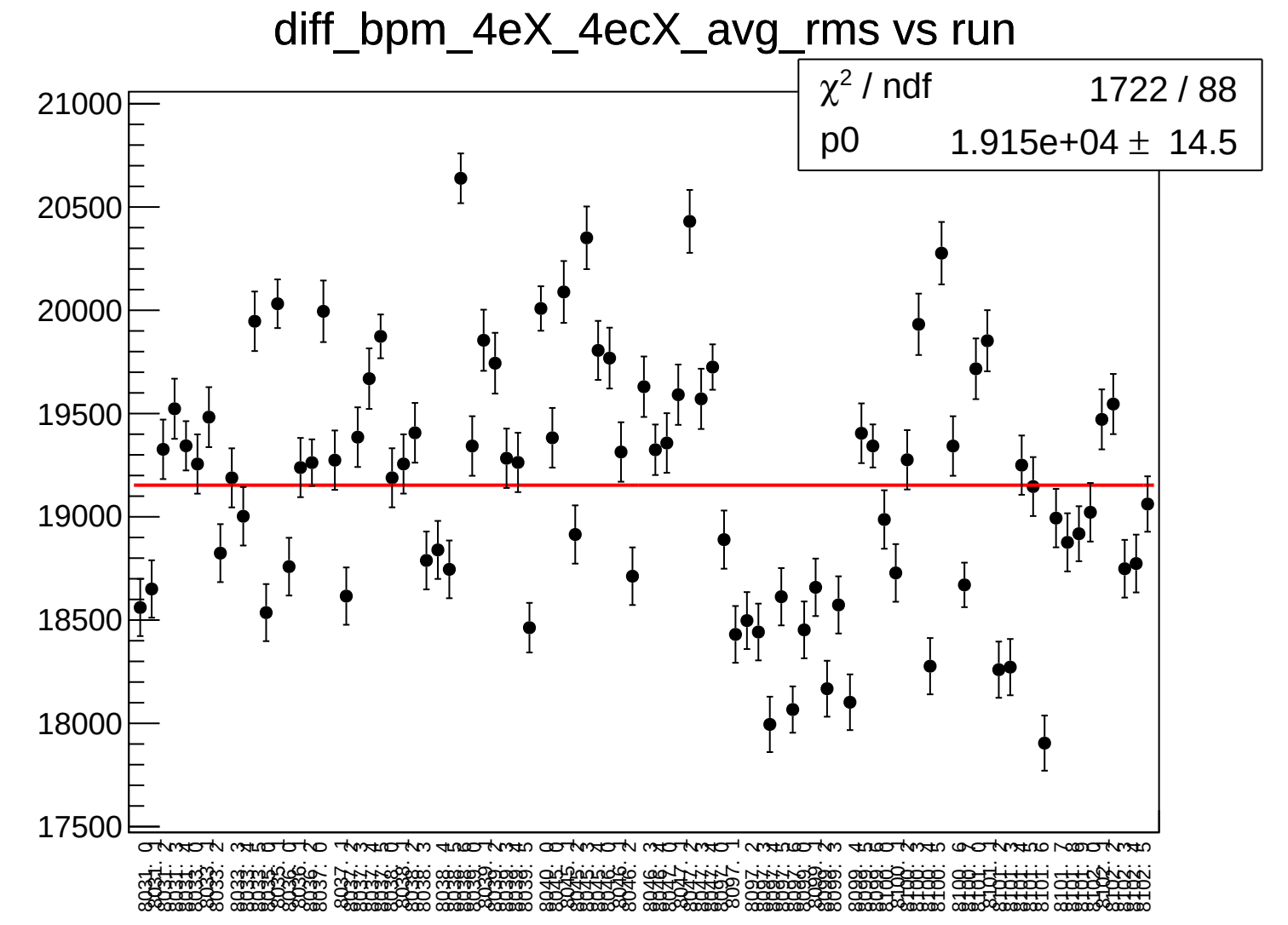

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 77.99 / 88
p0 −1.065 ± 0.6921
pull
Entries 89
Mean −89.39
Std Dev 0

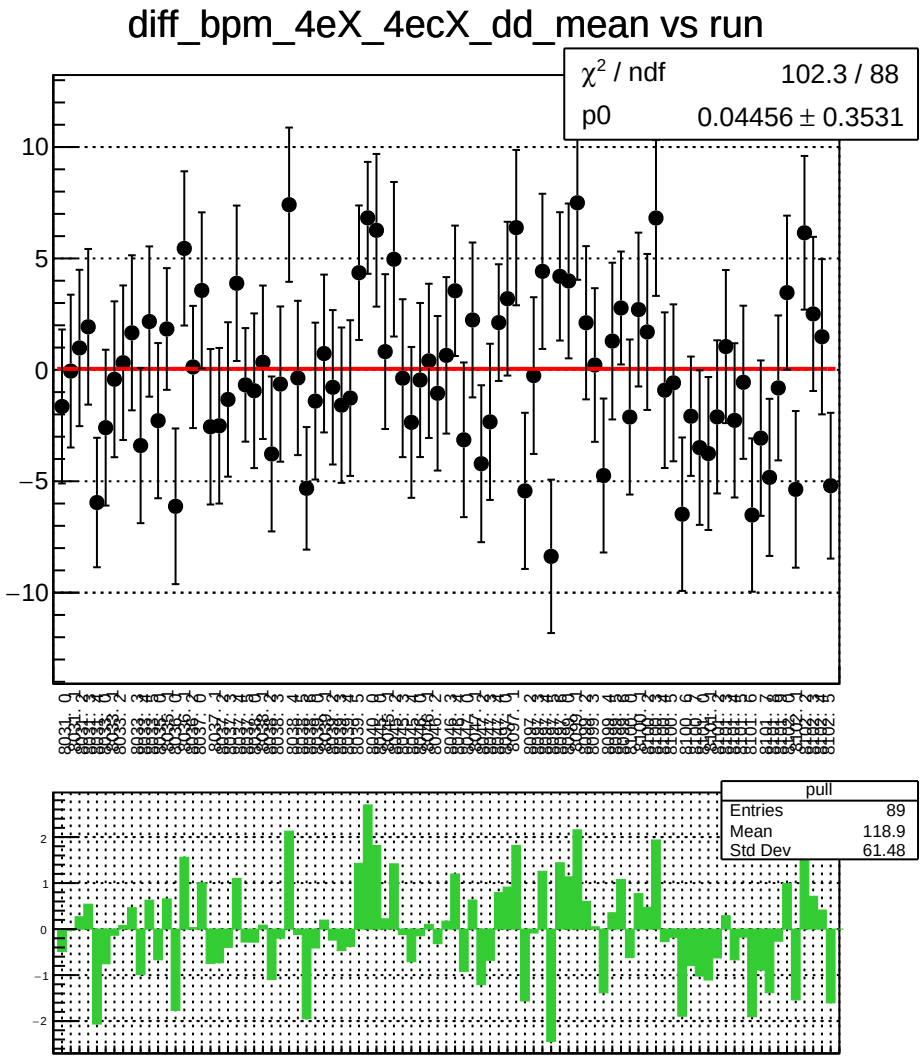

pull1D
Entries 89
Mean −0.01371
Std Dev 0.936

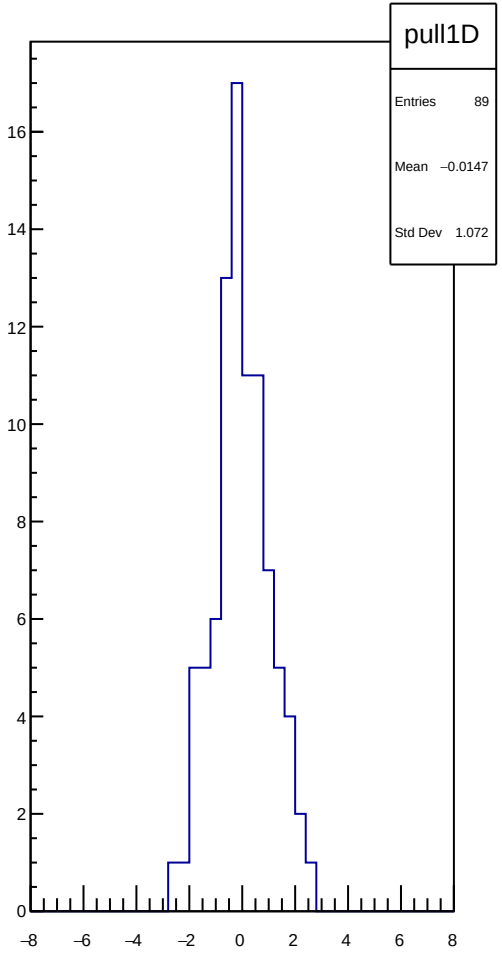

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 3.361e+04 / 88
p0 640.6 ± 0.4894
850
800
750
700
650
600
550

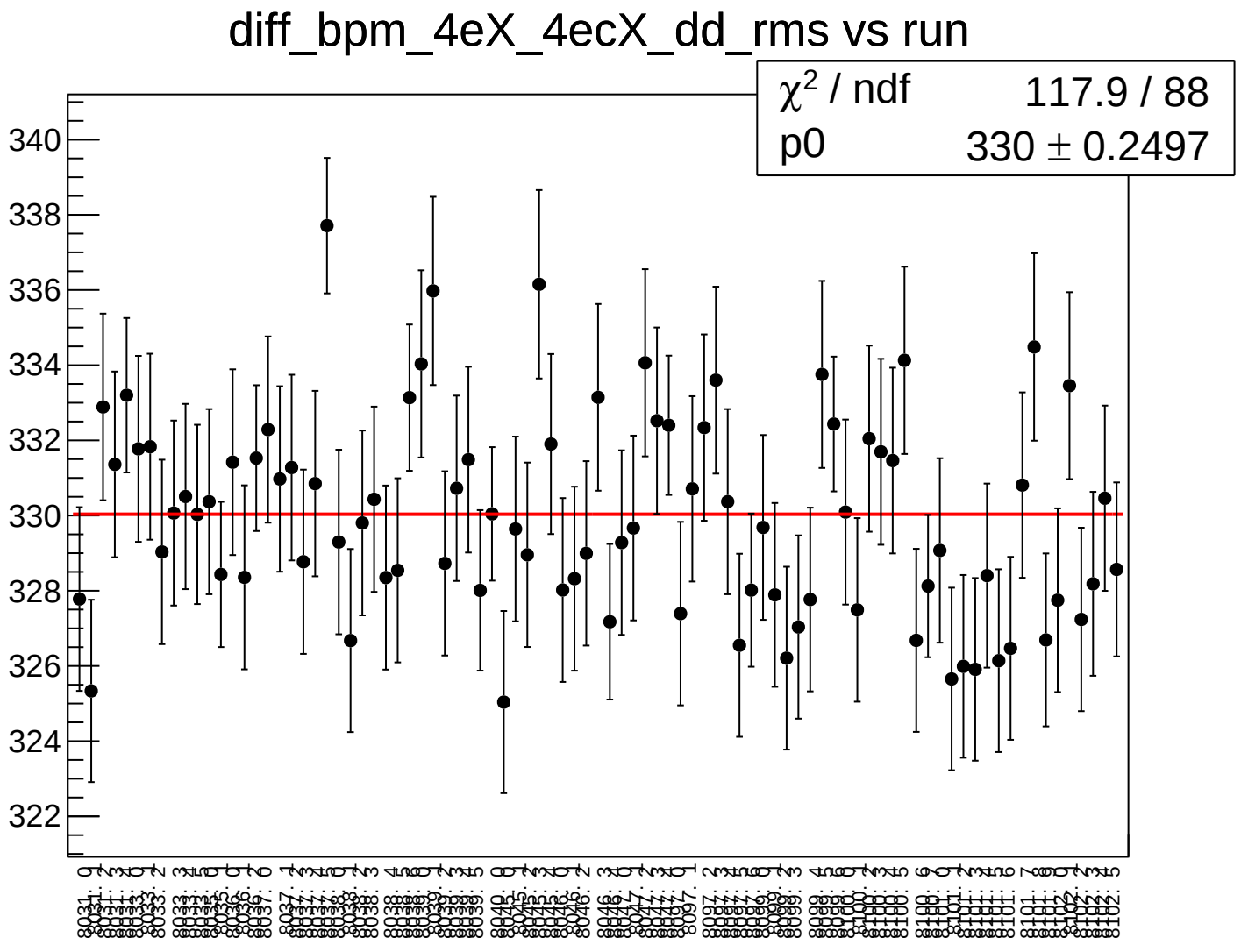

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 79.67 / 88
p0 −20.84 ± 20.5
pull
Entries 89
Mean −244.1
Std Dev 0

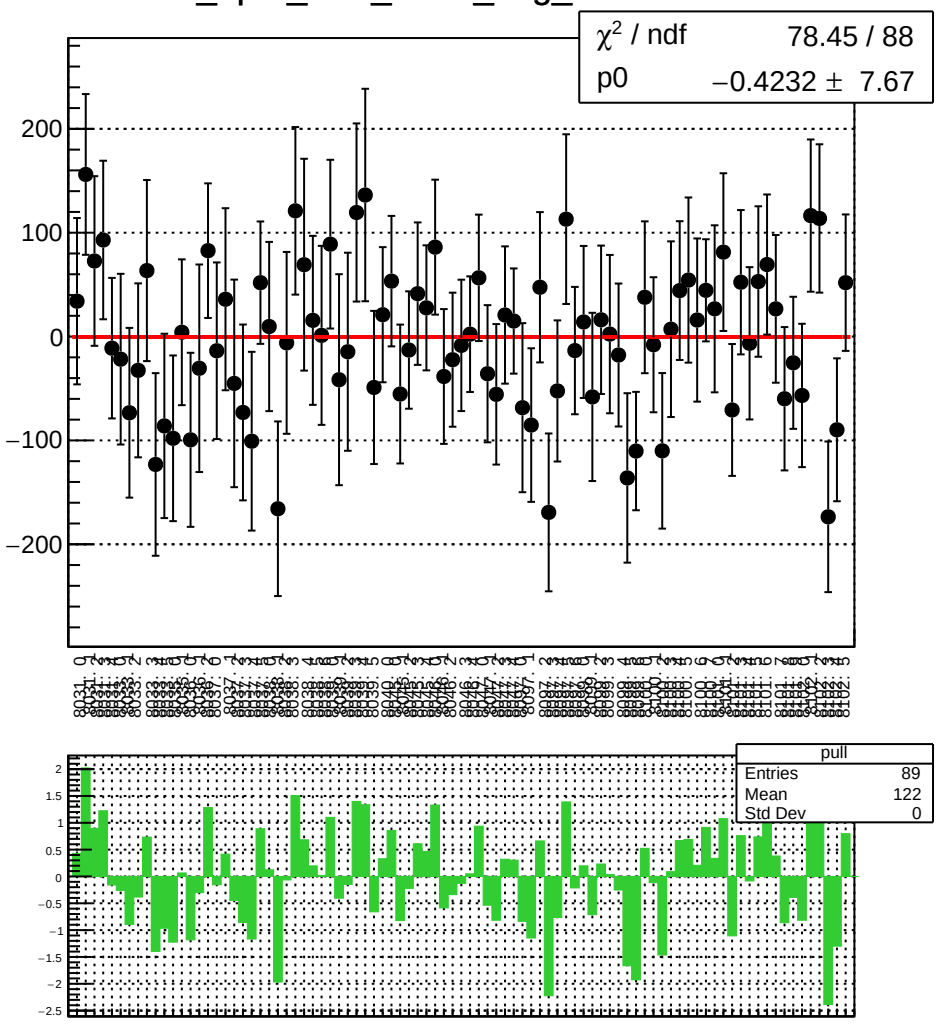

pull1D
Entries 89
Mean −0.006339
Std Dev 0.9461

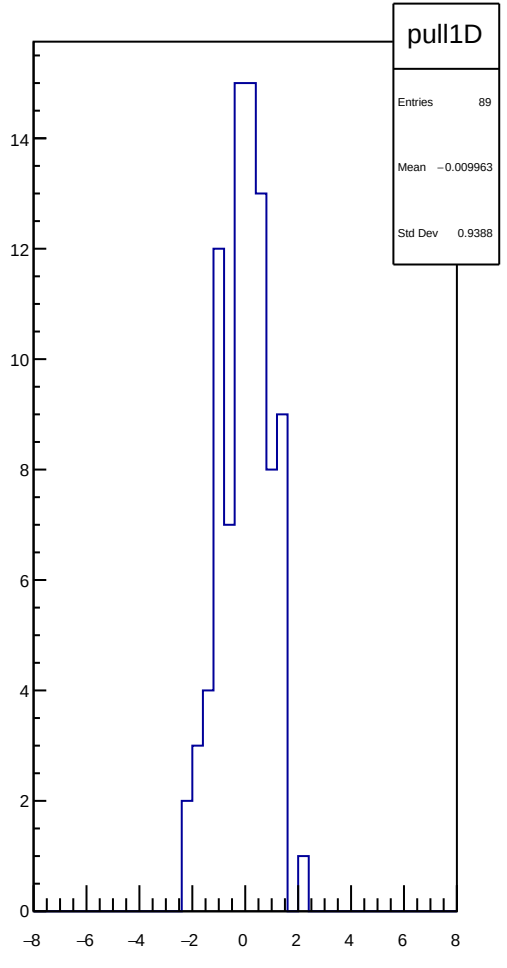

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 1722 / 88
p0 1.915e+04 ± 14.5
21000
20500
20000
19500
19000
18500
18000
17500

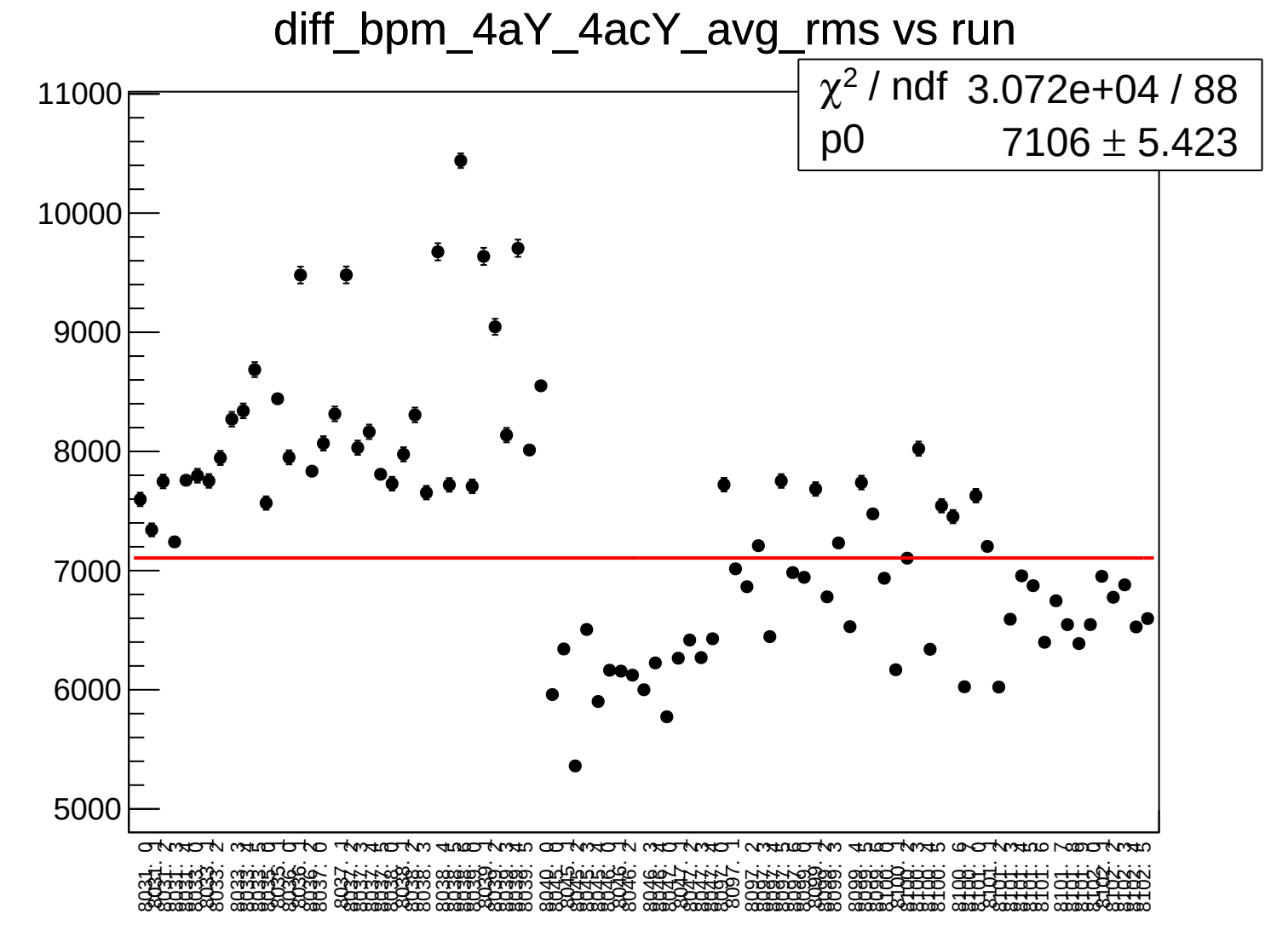

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 102.3 / 88
p0 0.04456 ± 0.3531
pull
Entries 89
Mean 118.9
Std Dev 61.48

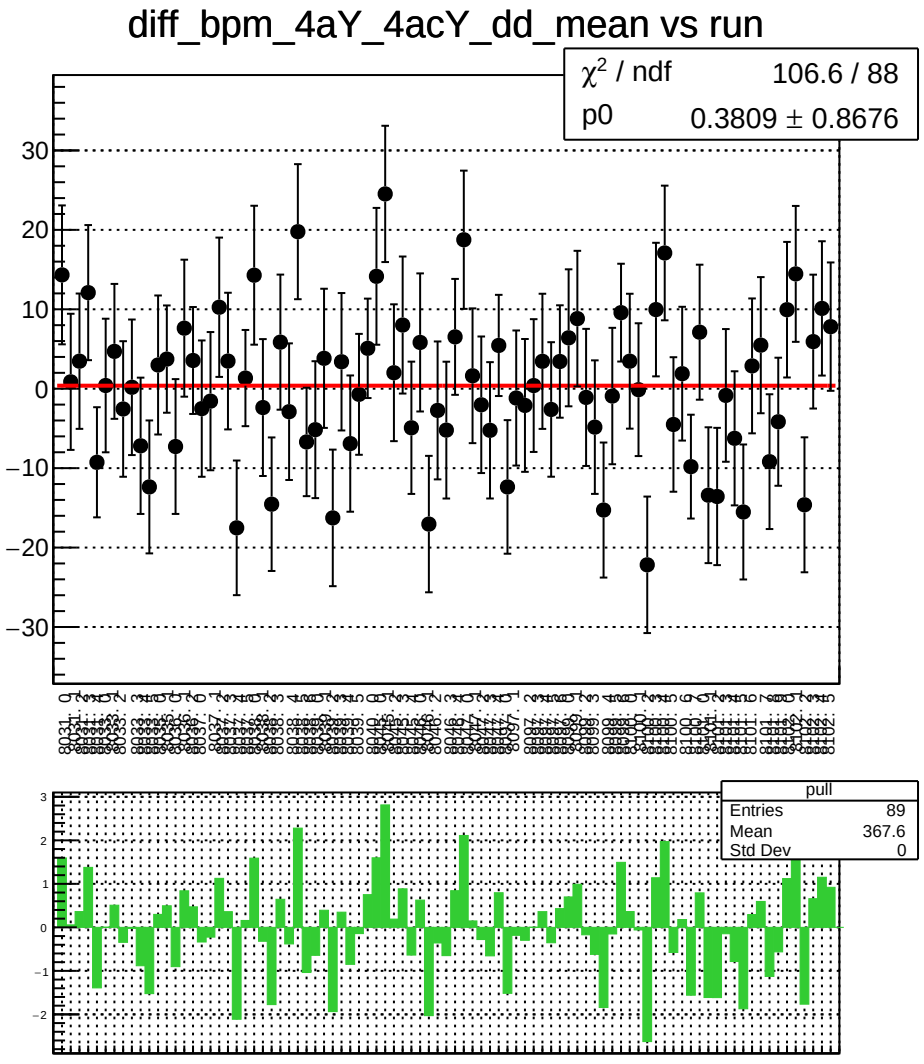

pull1D
Entries 89
Mean −0.0147
Std Dev 1.072

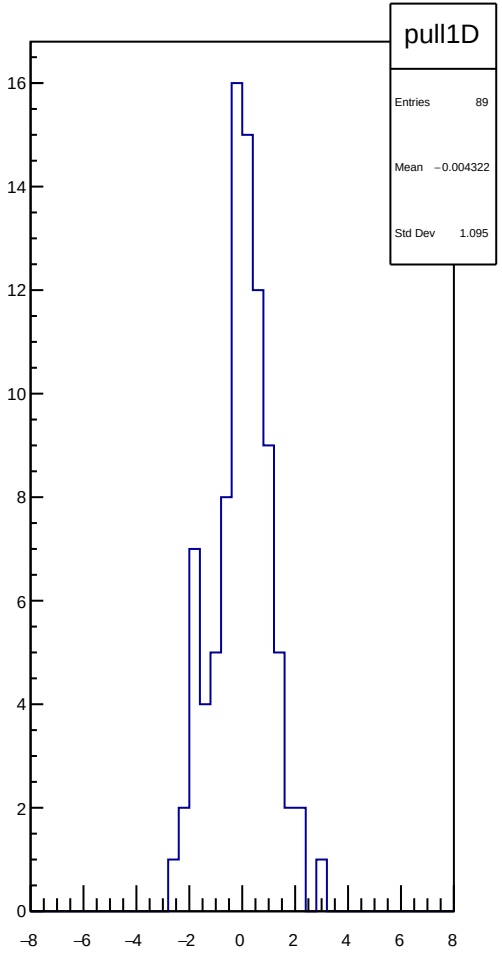

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 117.9 / 88
p0 330 ± 0.2497
340
338
336
334
332
330
328
326
324
322

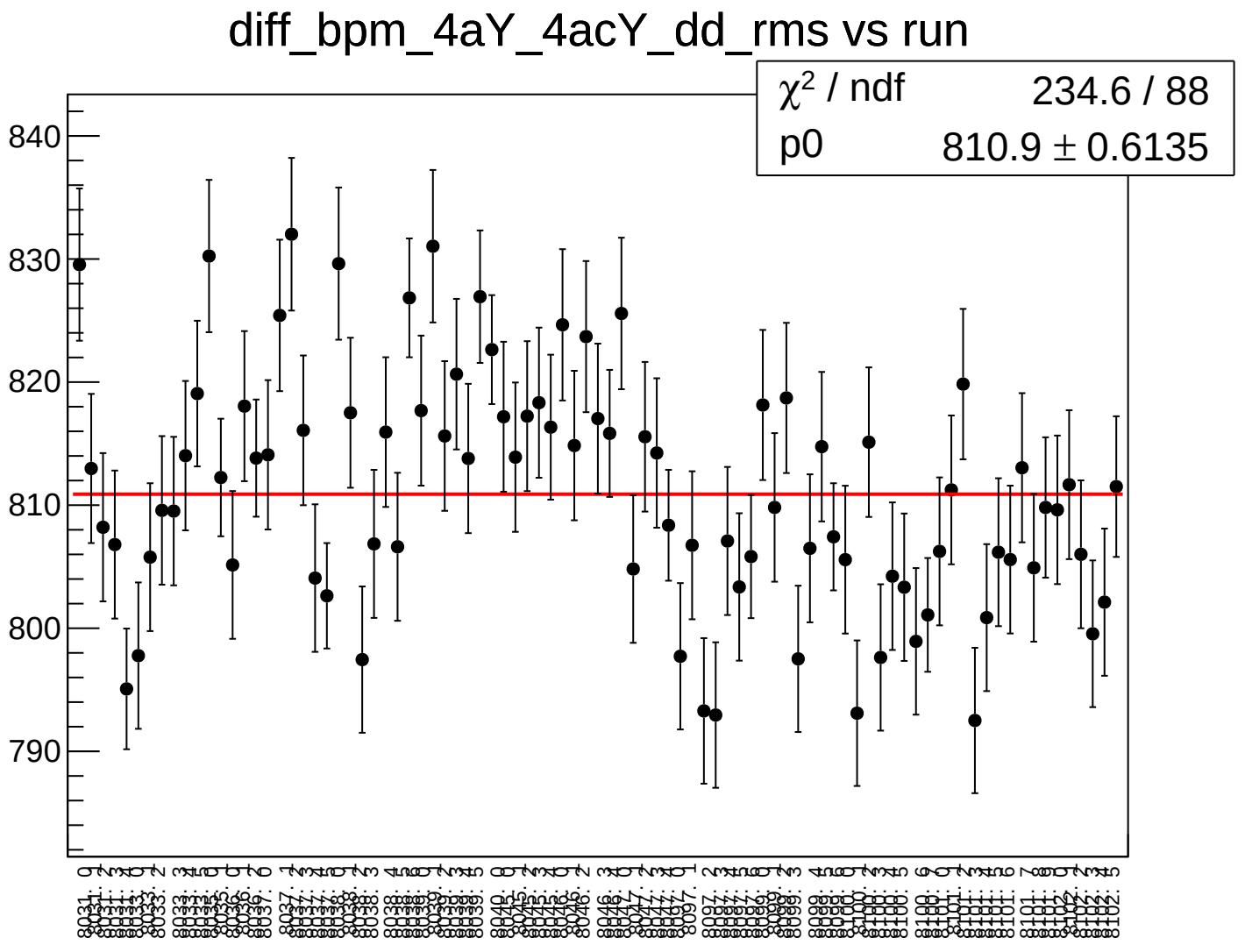

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 78.45 / 88
p0 −0.4232 ± 7.67
200
100
0
−100
−200
pull
Entries 89
Mean 122
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

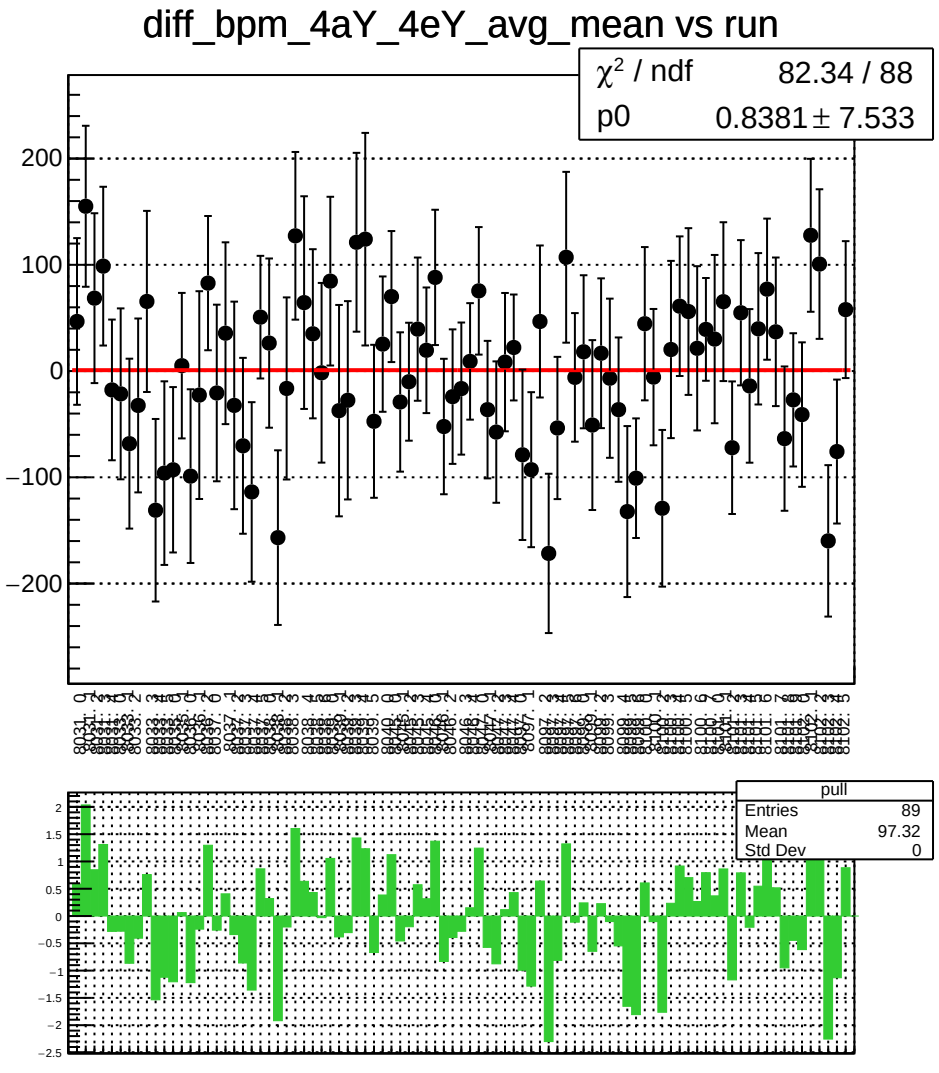

pull1D
Entries 89
Mean −0.009963
Std Dev 0.9388
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

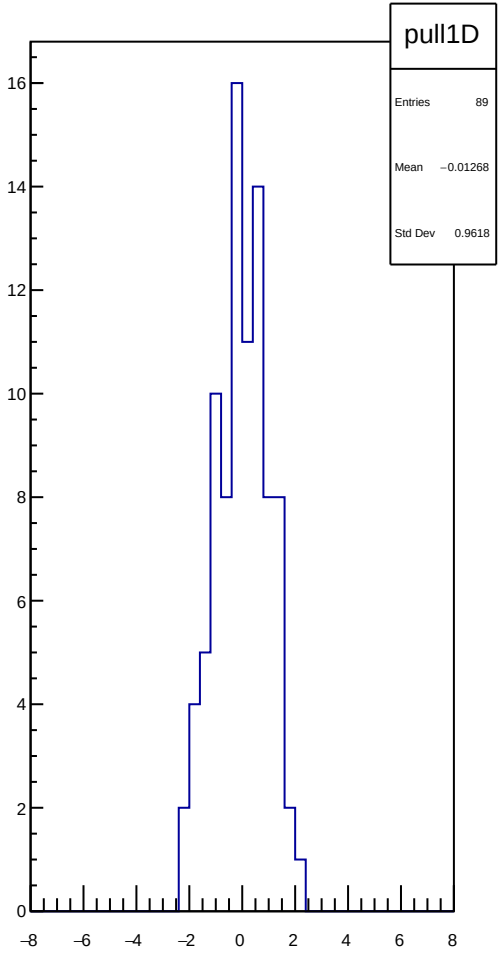

diff_bpm_4aY_4acY_avg_rms vs run
$\chi^2$ / ndf 3.072e+04 / 88
p0 7106 ± 5.423
11000
10000
9000
8000
7000
6000
5000

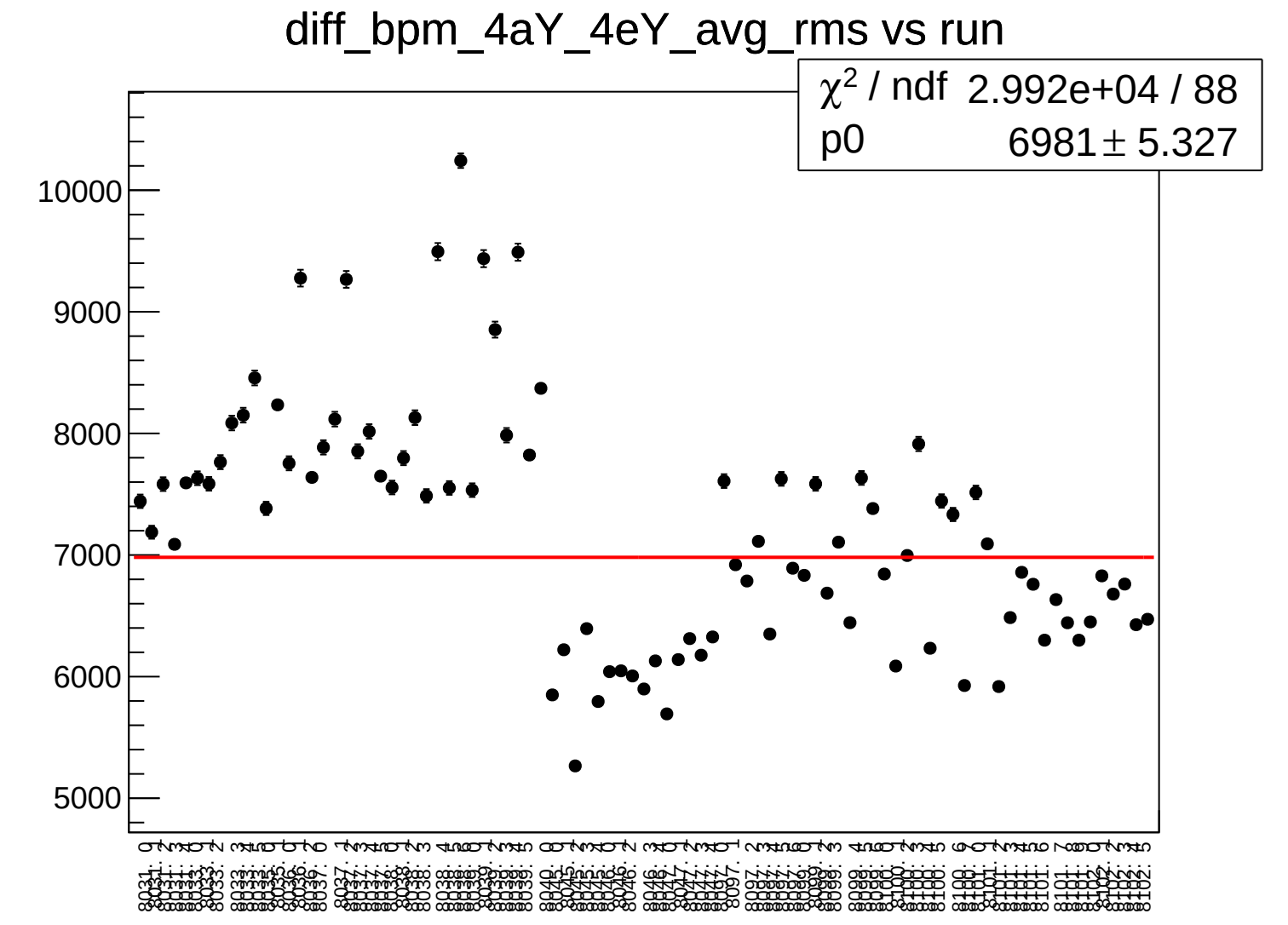

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 106.6 / 88
p0 0.3809 ± 0.8676
pull
Entries 89
Mean 367.6
Std Dev 0

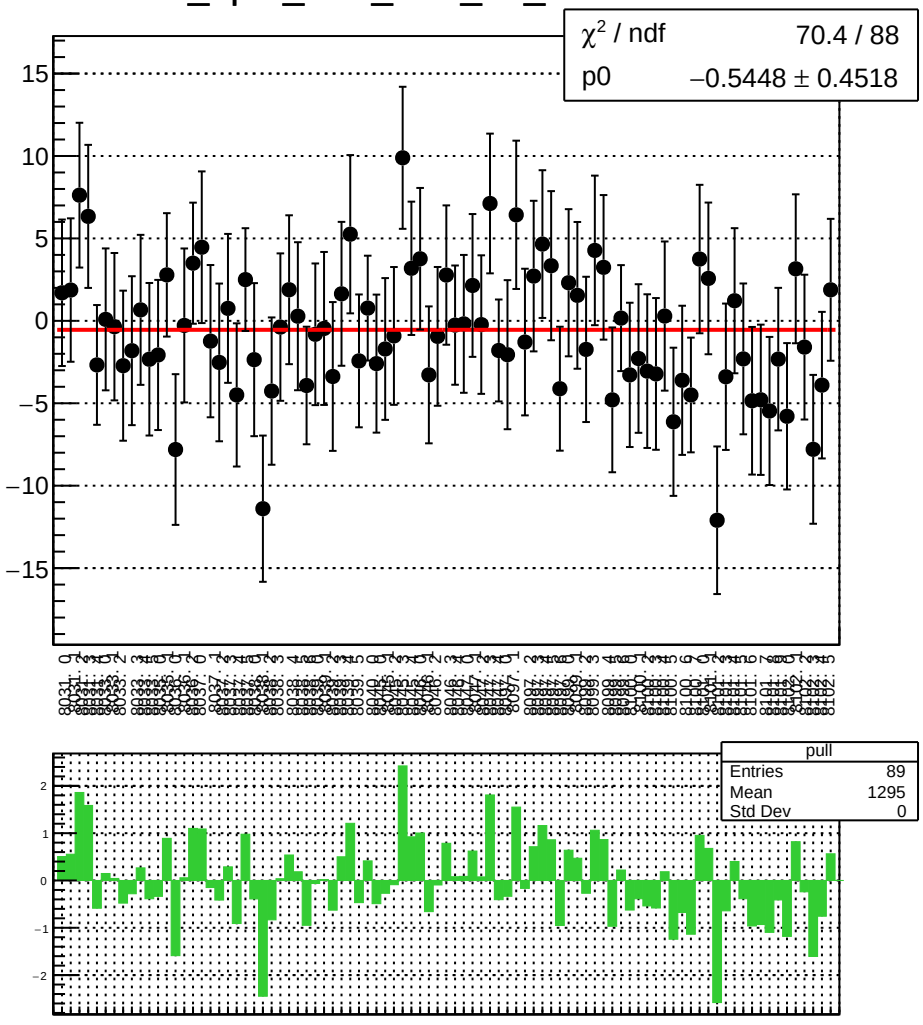

pull1D
Entries 89
Mean −0.004322
Std Dev 1.095

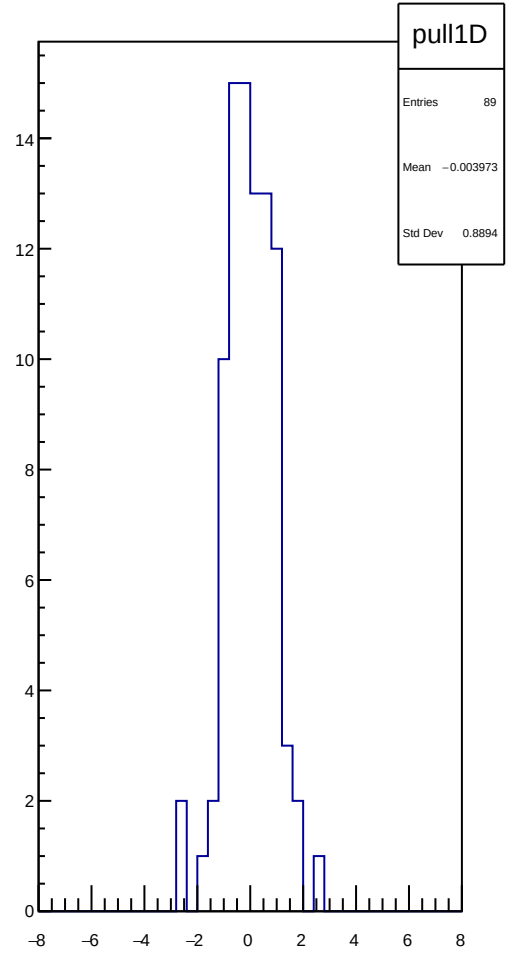

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 234.6 / 88
p0 810.9 ± 0.6135
840
830
820
810
800
790

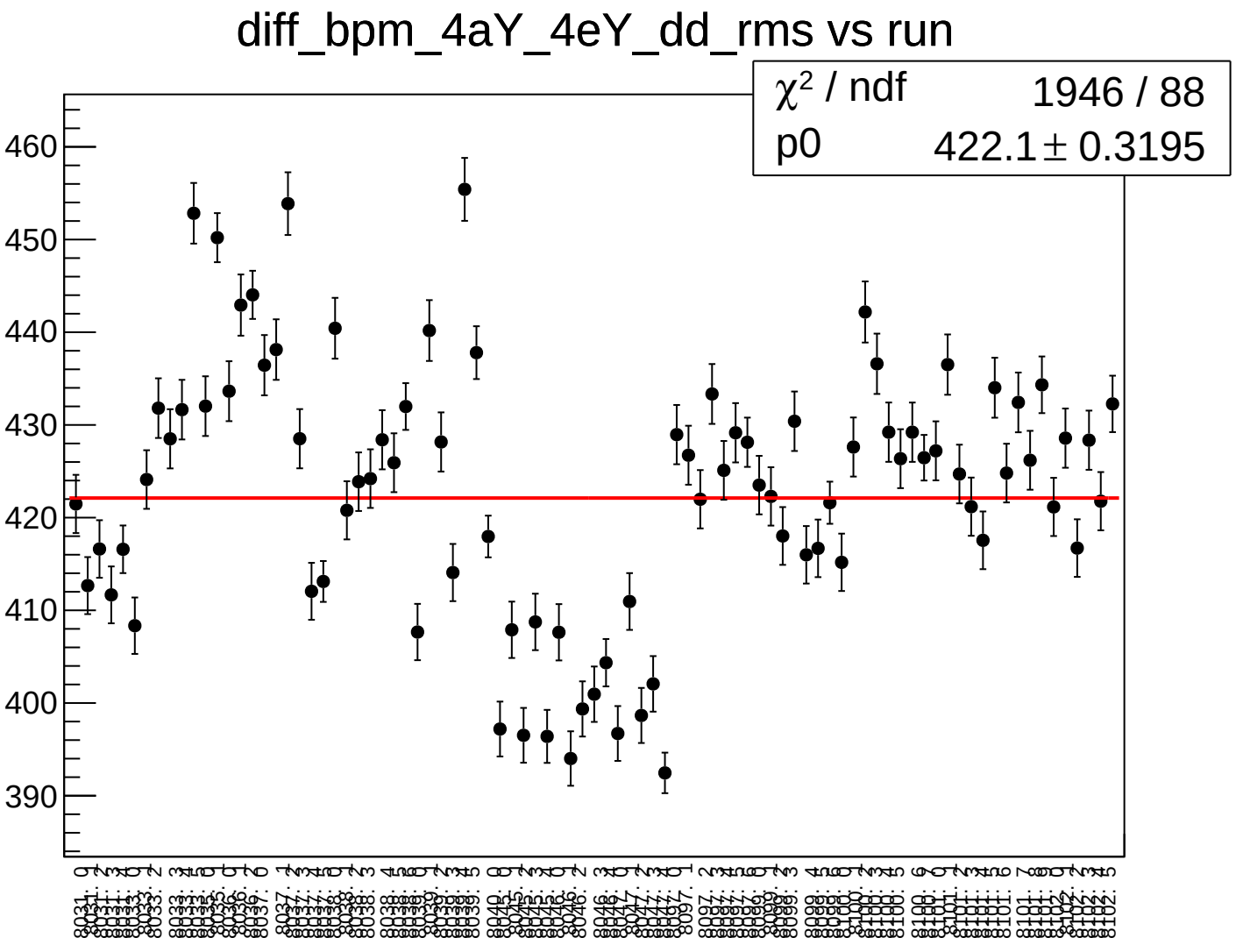

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 82.34 / 88
p0 0.8381 ± 7.533
200
100
0
−100
−200
pull
Entries 89
Mean 97.32
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

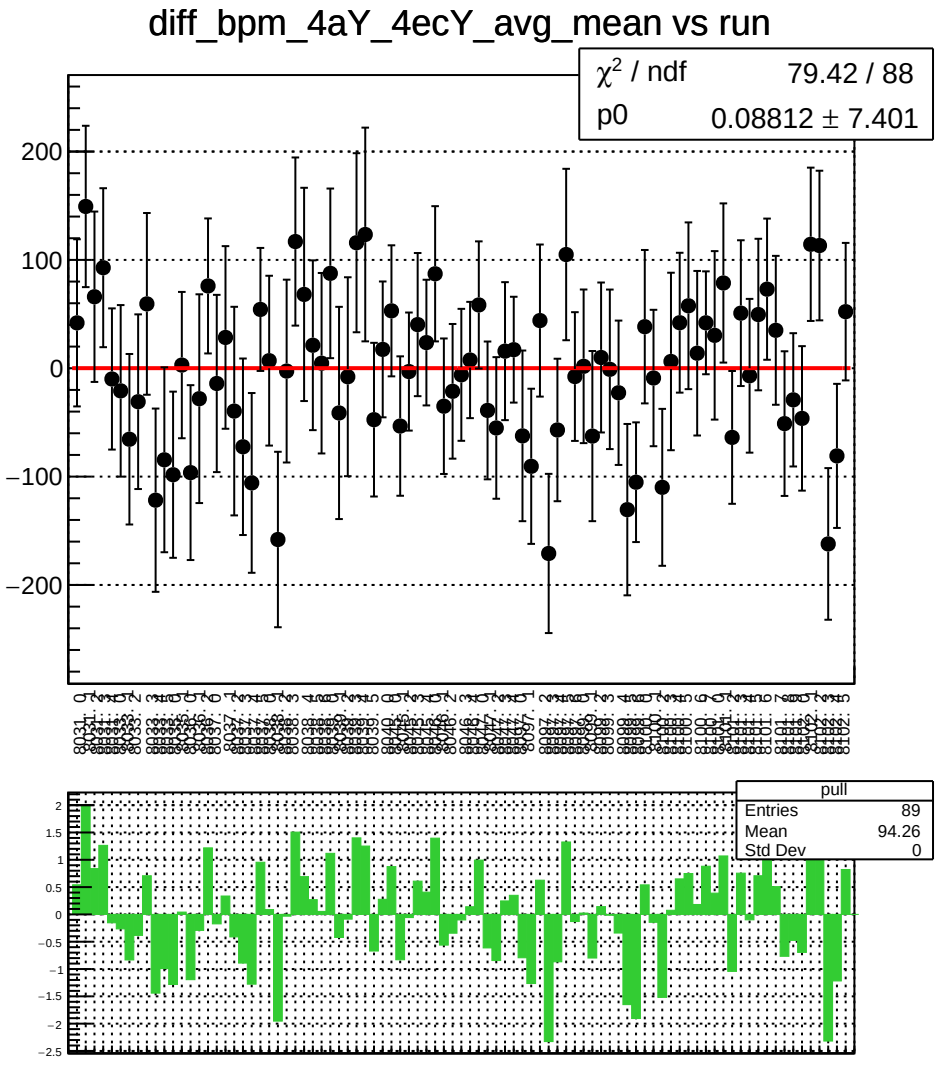

pull1D
Entries 89
Mean −0.01268
Std Dev 0.9618
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

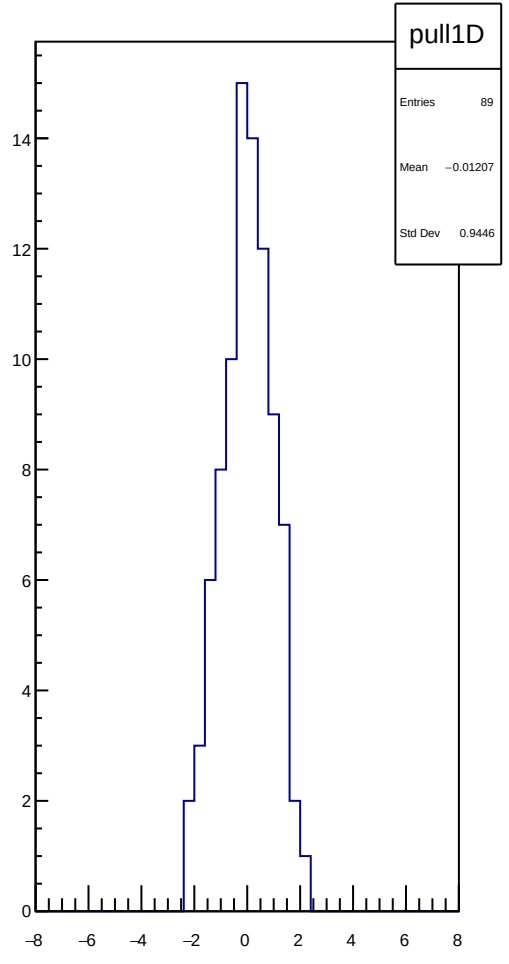

diff_bpm_4aY_4eY_avg_rms vs run
χ² / ndf 2.992e+04 / 88
p0 6981 ± 5.327
10000
9000
8000
7000
6000
5000

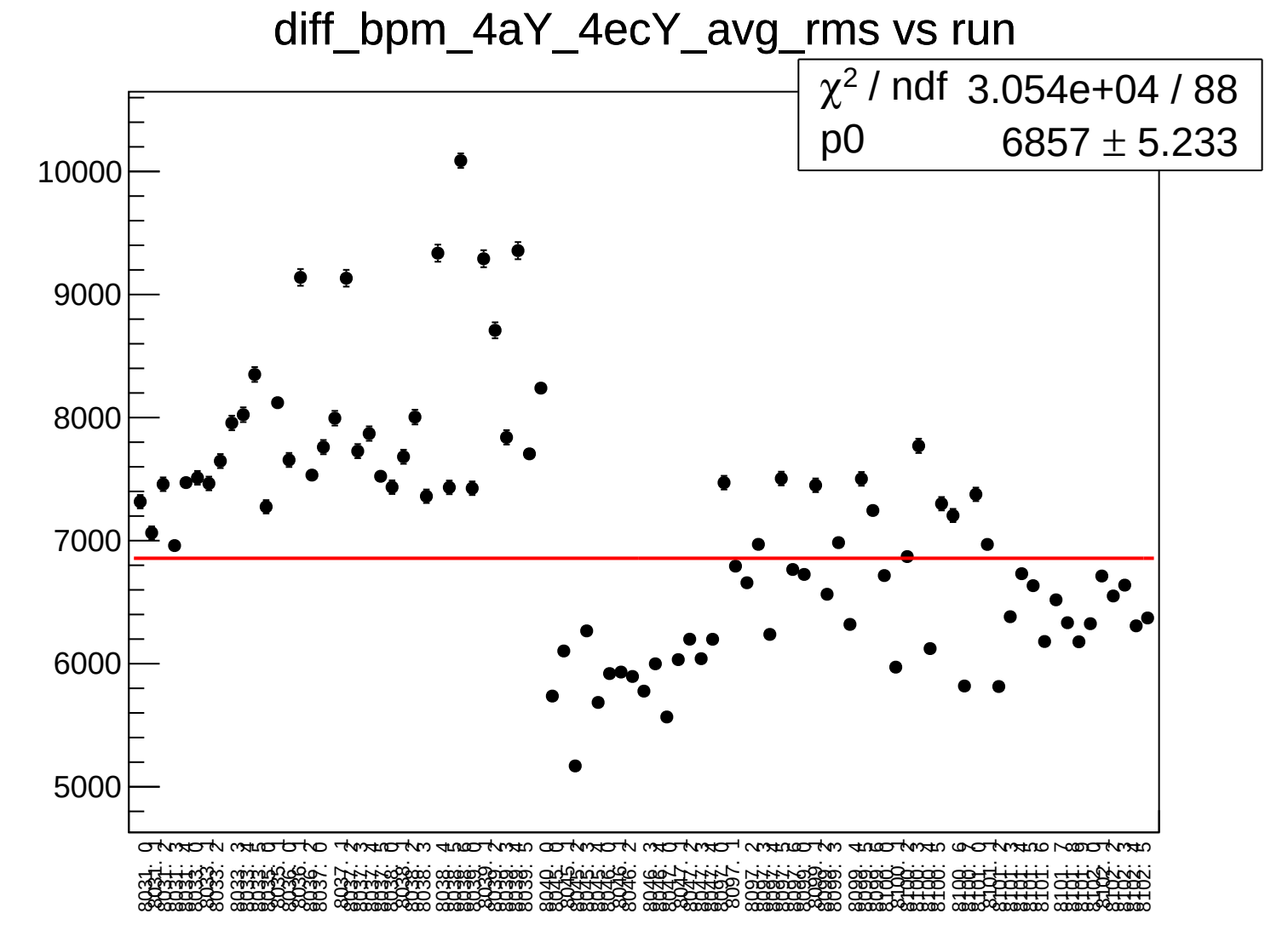

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 70.4 / 88
p0 −0.5448 ± 0.4518
pull
Entries 89
Mean 1295
Std Dev 0

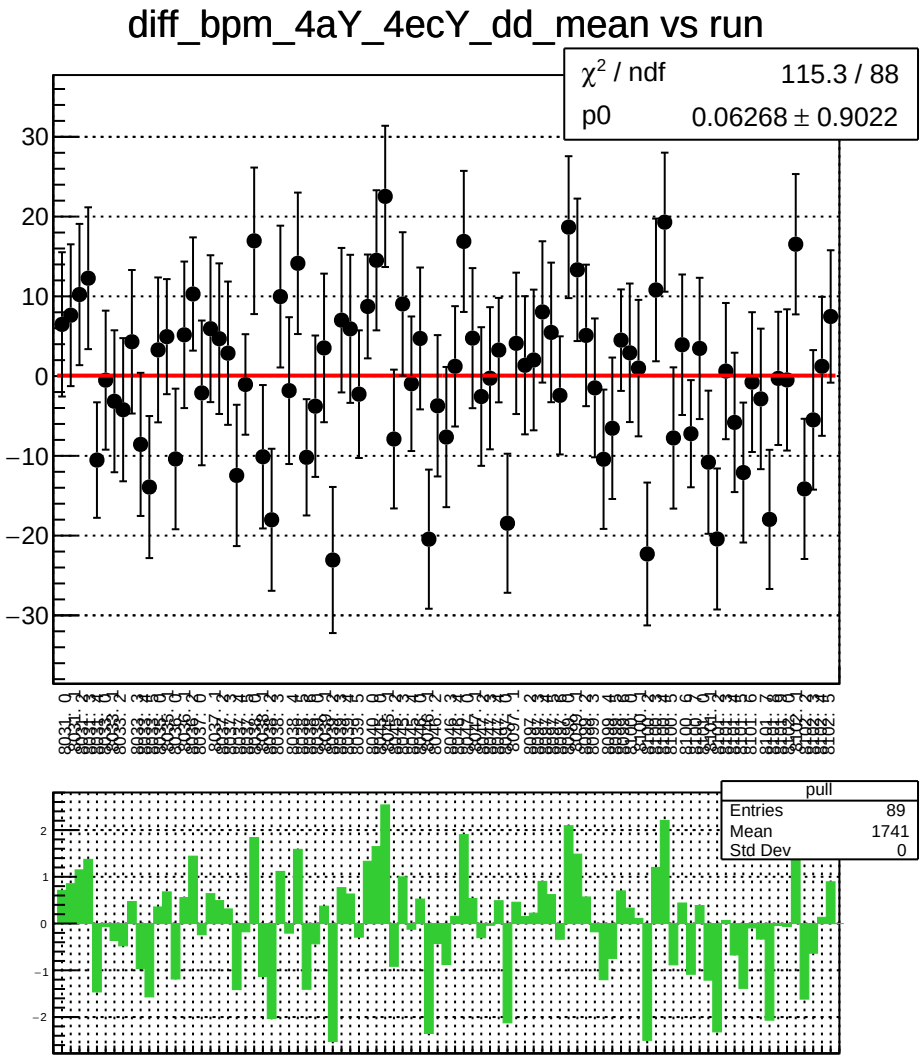

pull1D
Entries 89
Mean −0.003973
Std Dev 0.8894

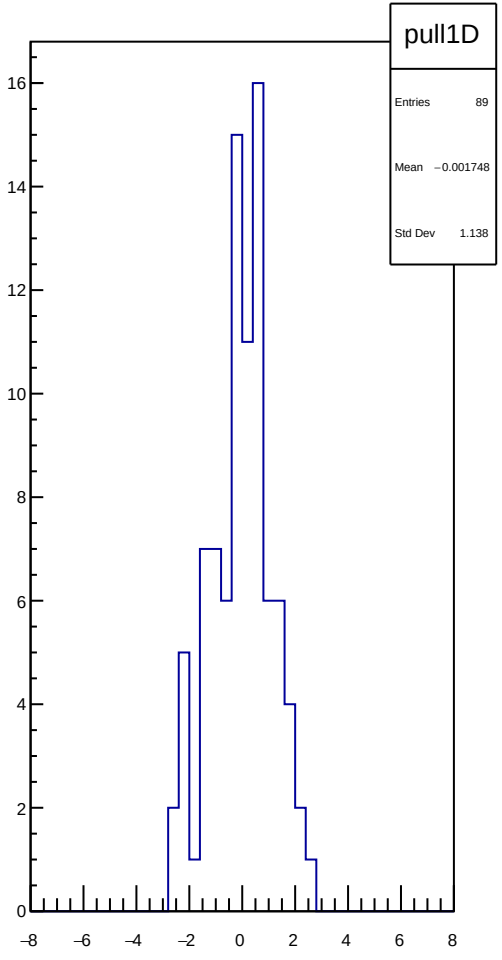

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 1946 / 88
p0 422.1 ± 0.3195
460
450
440
430
420
410
400
390

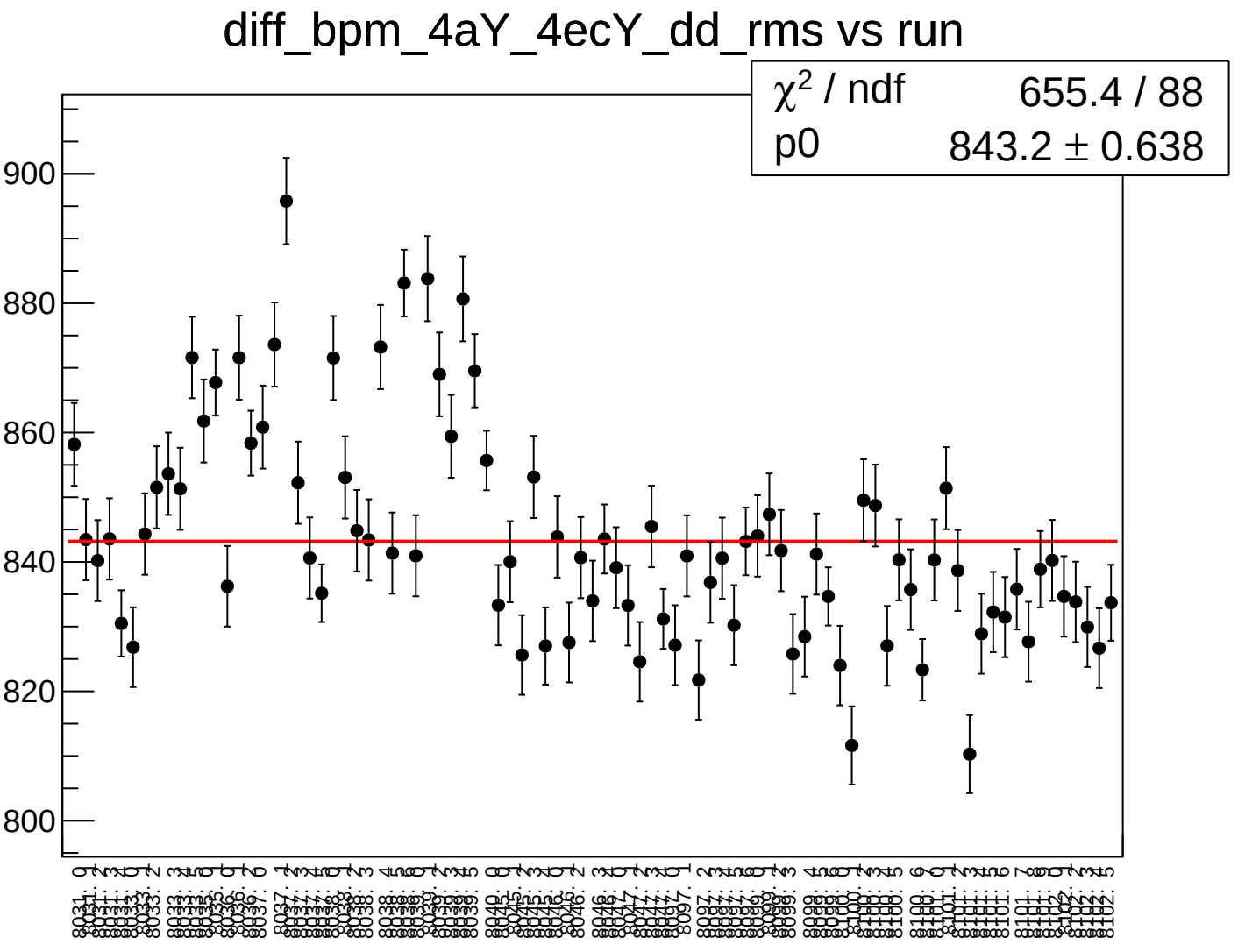

diff_bpm_4aY_4ecY_avg_mean vs run
χ² / ndf 79.42 / 88
p0 0.08812 ± 7.401
200
100
0
−100
−200
pull
Entries 89
Mean 94.26
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

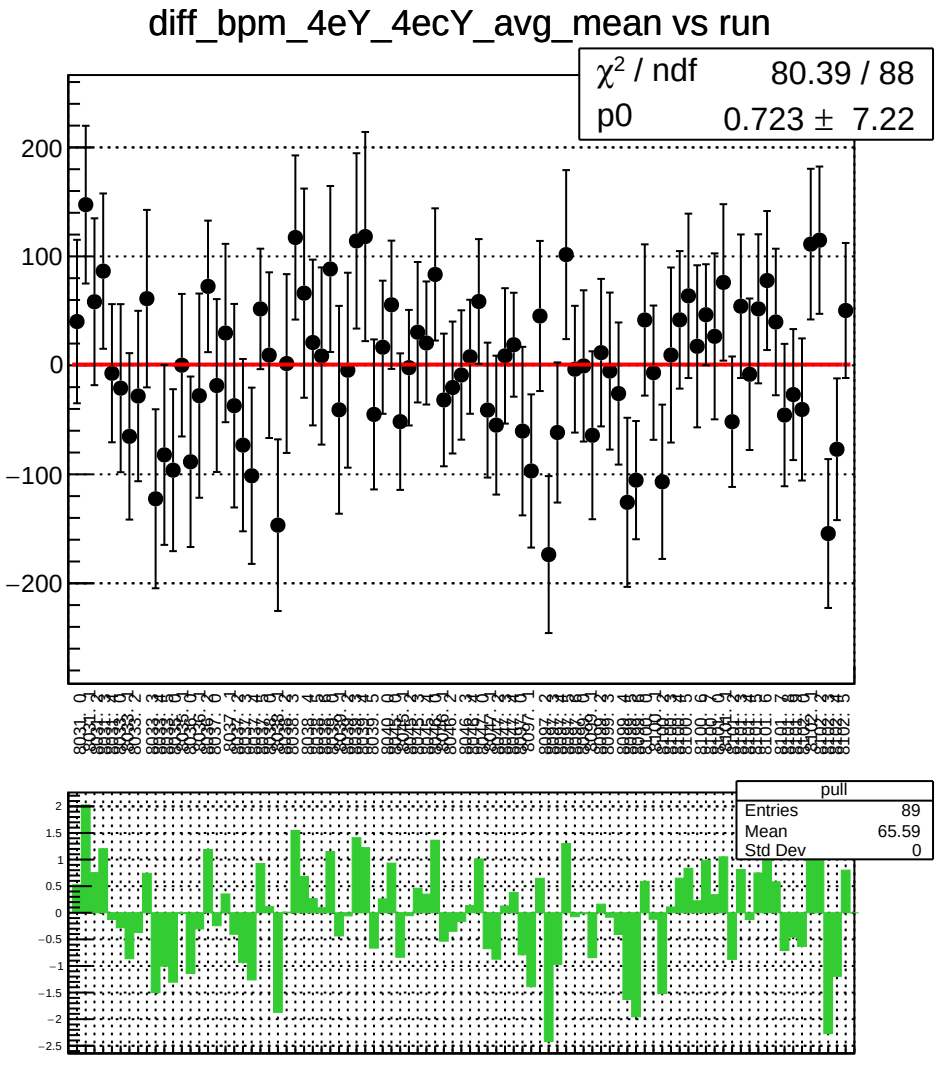

pull1D
Entries 89
Mean −0.01207
Std Dev 0.9446
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

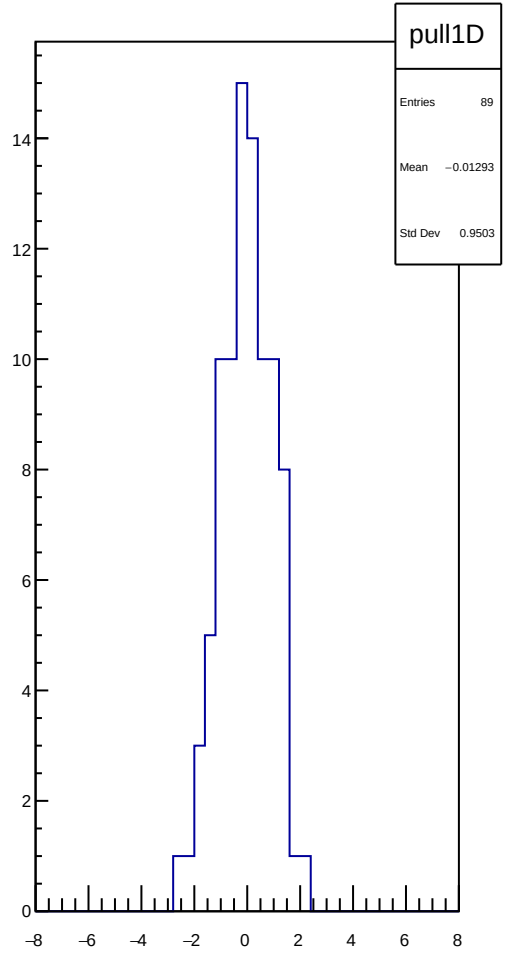

diff_bpm_4aY_4ecY_avg_rms vs run
χ² / ndf 3.054e+04 / 88
p0 6857 ± 5.233
10000
9000
8000
7000
6000
5000

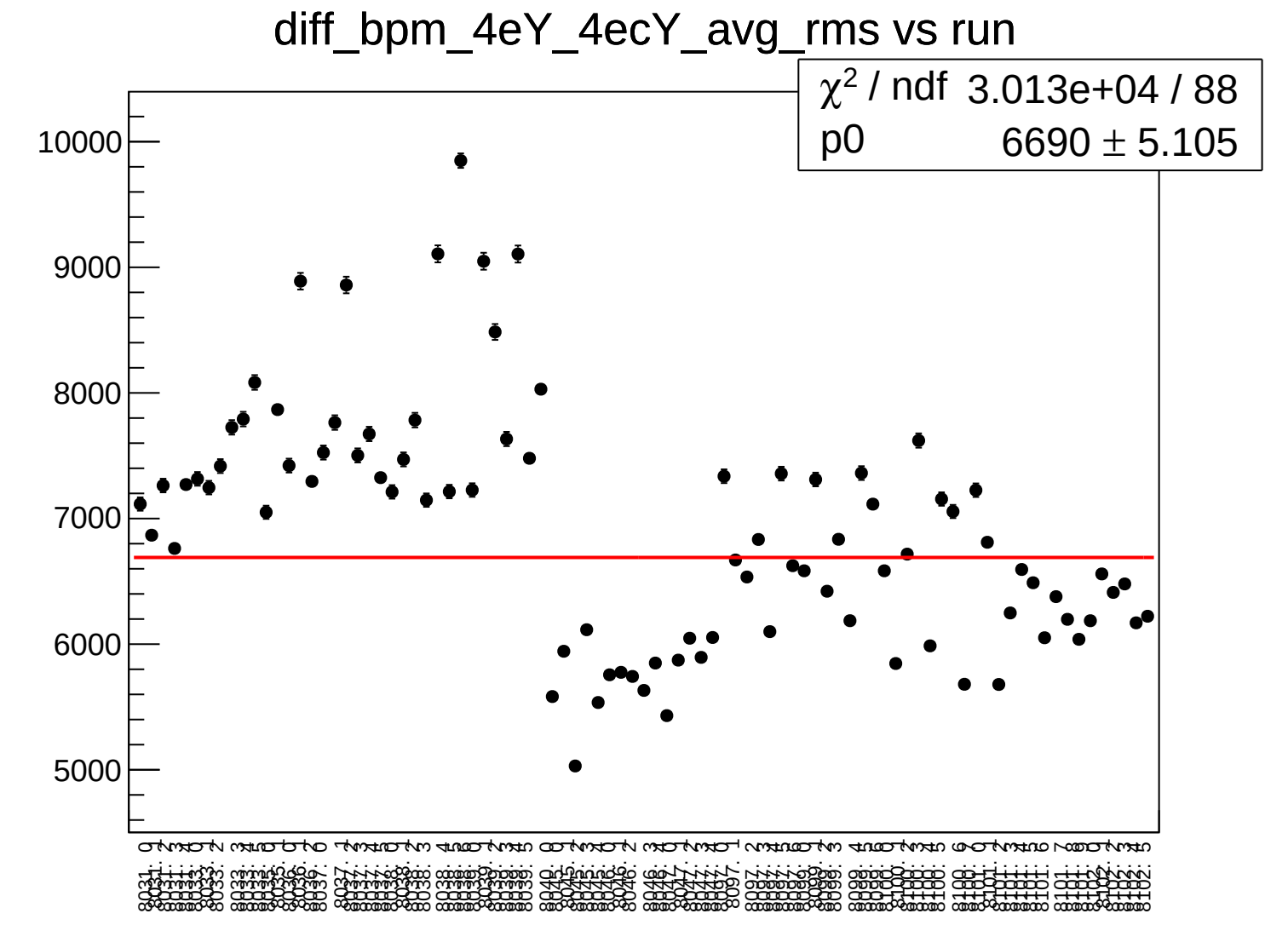

diff_bpm_4aY_4ecY_dd_mean vs run
$\chi^2$ / ndf 115.3 / 88
p0 0.06268 ± 0.9022
30
20
10
0
−10
−20
−30
pull
Entries 89
Mean 1741
Std Dev 0
2
1
0
−1
−2

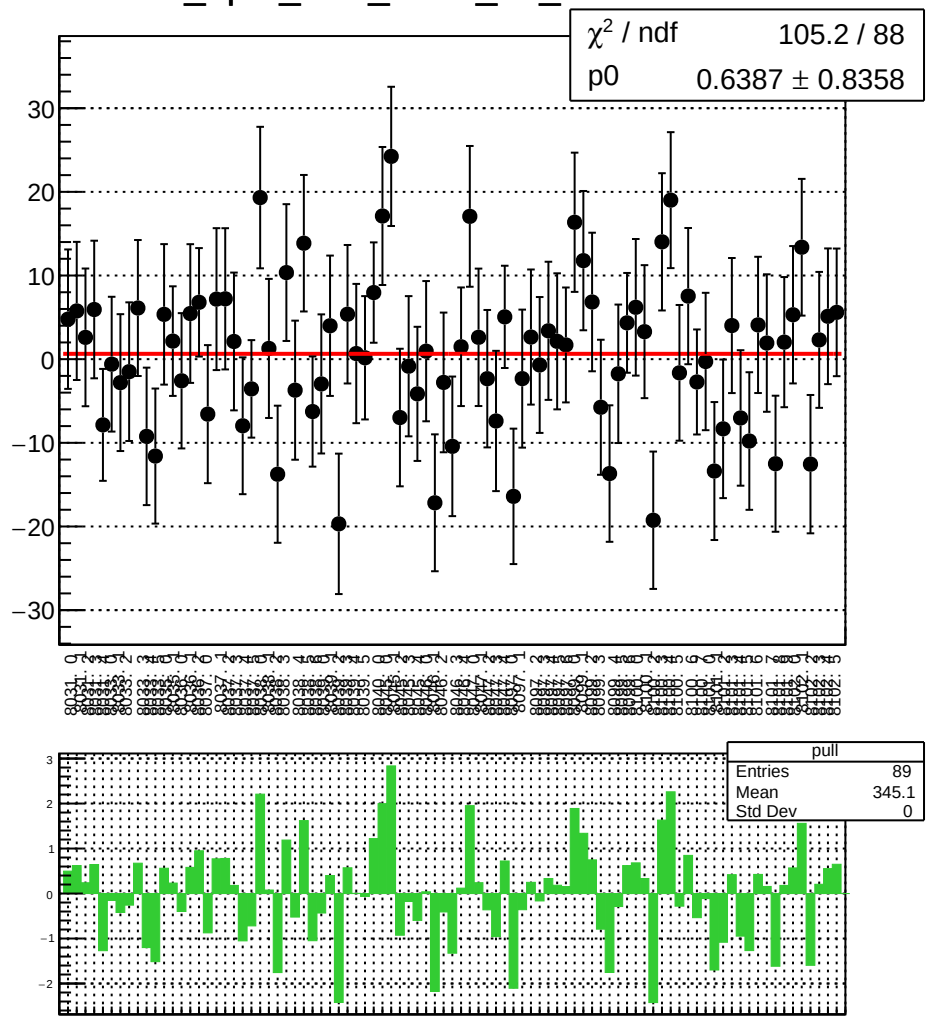

pull1D
Entries 89
Mean −0.001748
Std Dev 1.138
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

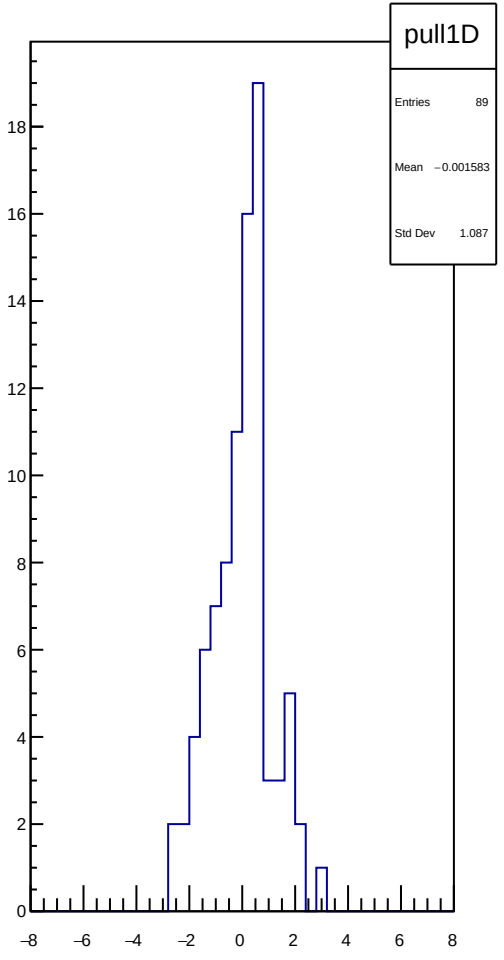

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 655.4 / 88
p0 843.2 ± 0.638
900
880
860
840
820
800

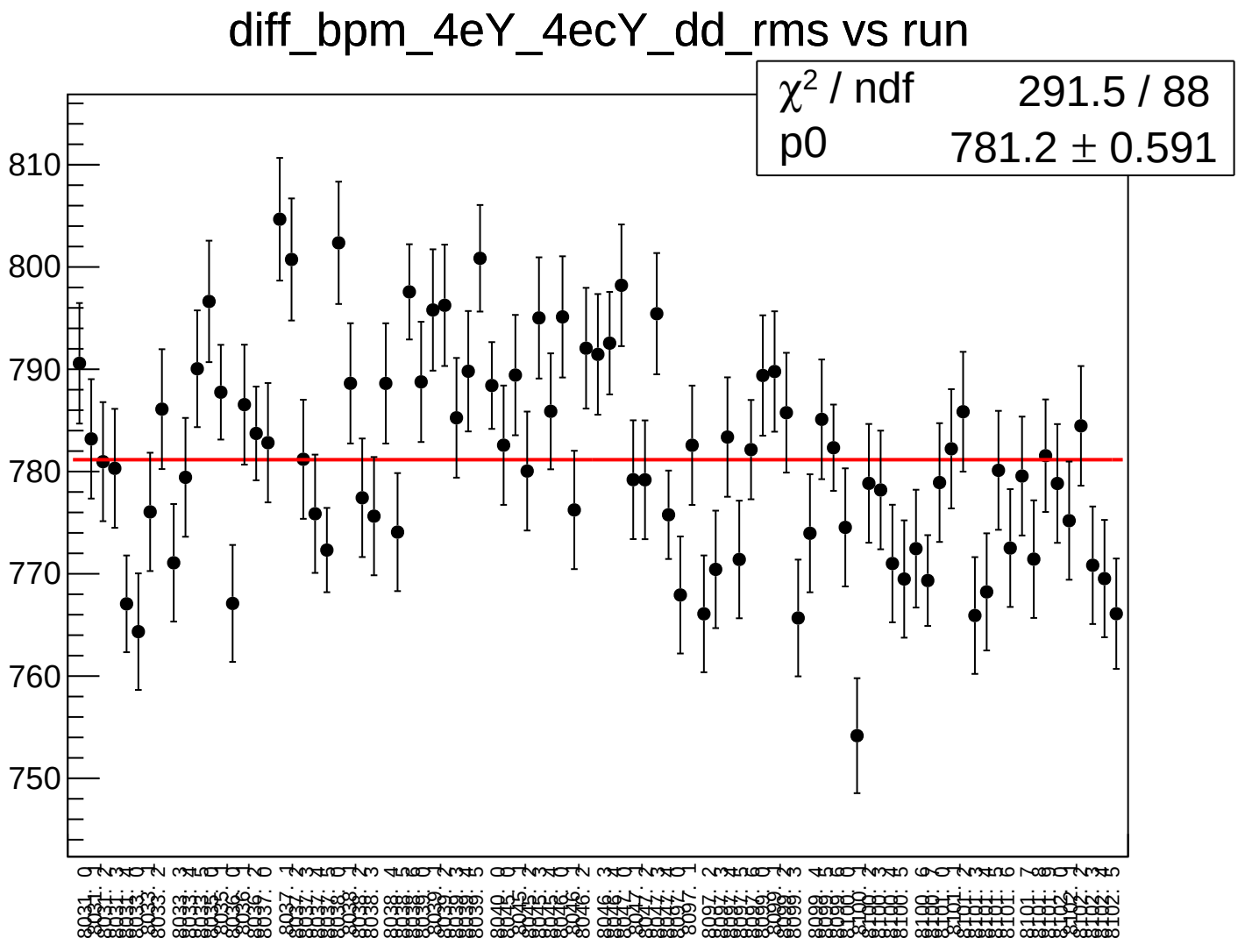

diff_bpm_4eY_4ecY_avg_mean vs run
χ² / ndf 80.39 / 88
p0 0.723 ± 7.22
200
100
0
−100
−200
pull
Entries 89
Mean 65.59
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

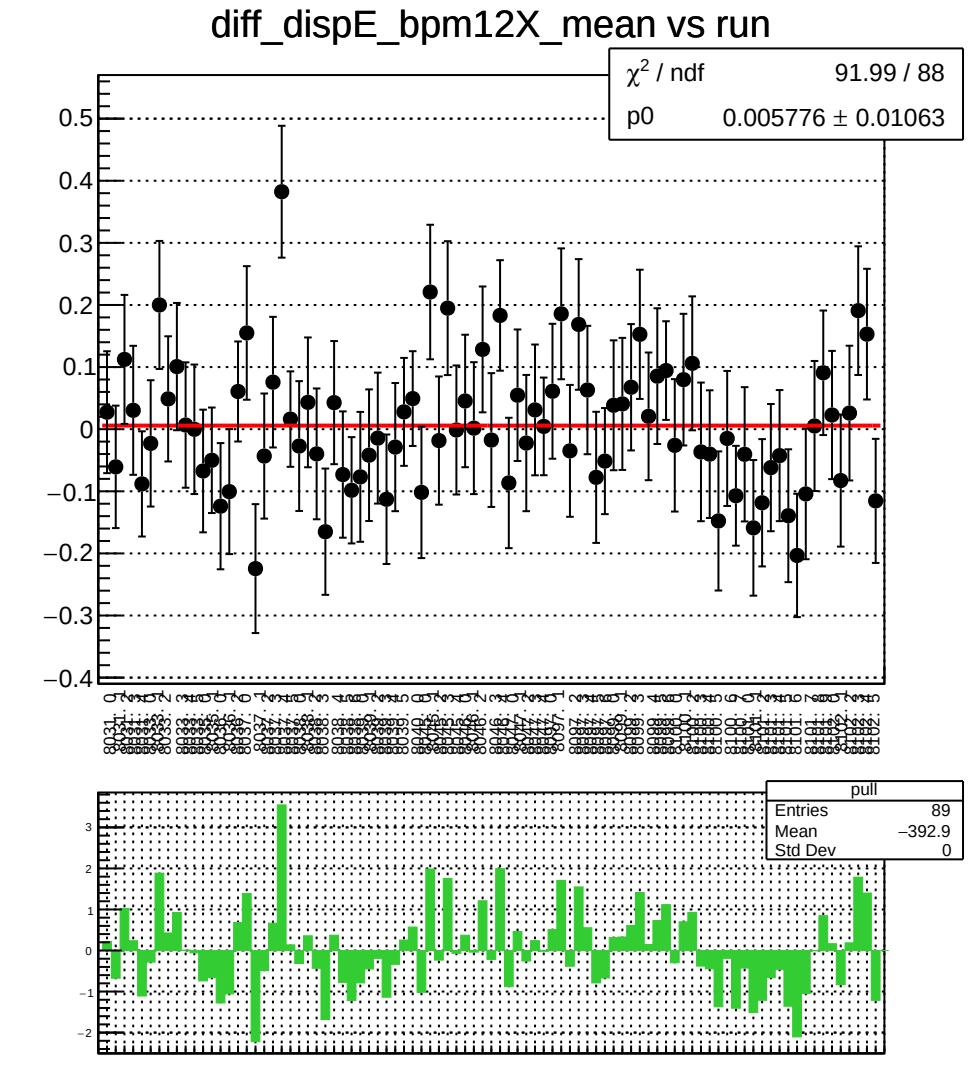

pull1D
Entries 89
Mean −0.01293
Std Dev 0.9503
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

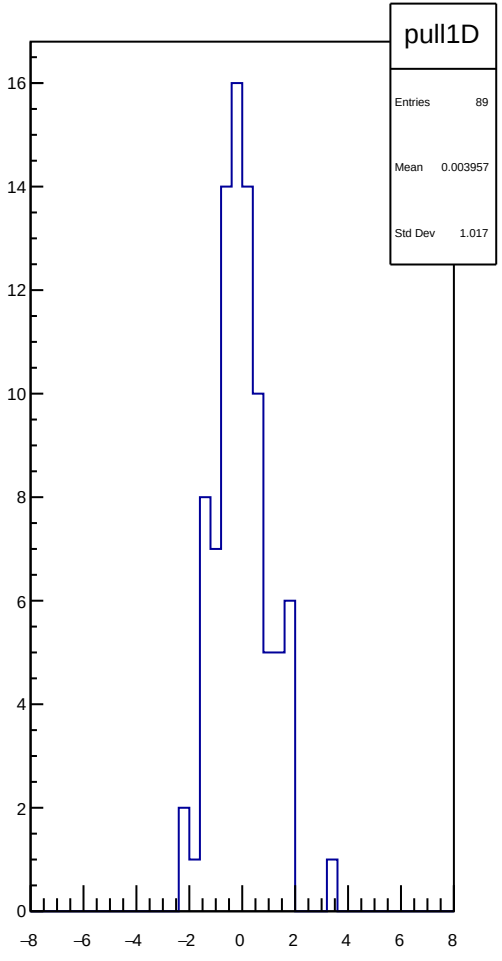

diff_bpm_4eY_4ecY_avg_rms vs run
χ² / ndf 3.013e+04 / 88
p0 6690 ± 5.105
10000
9000
8000
7000
6000
5000

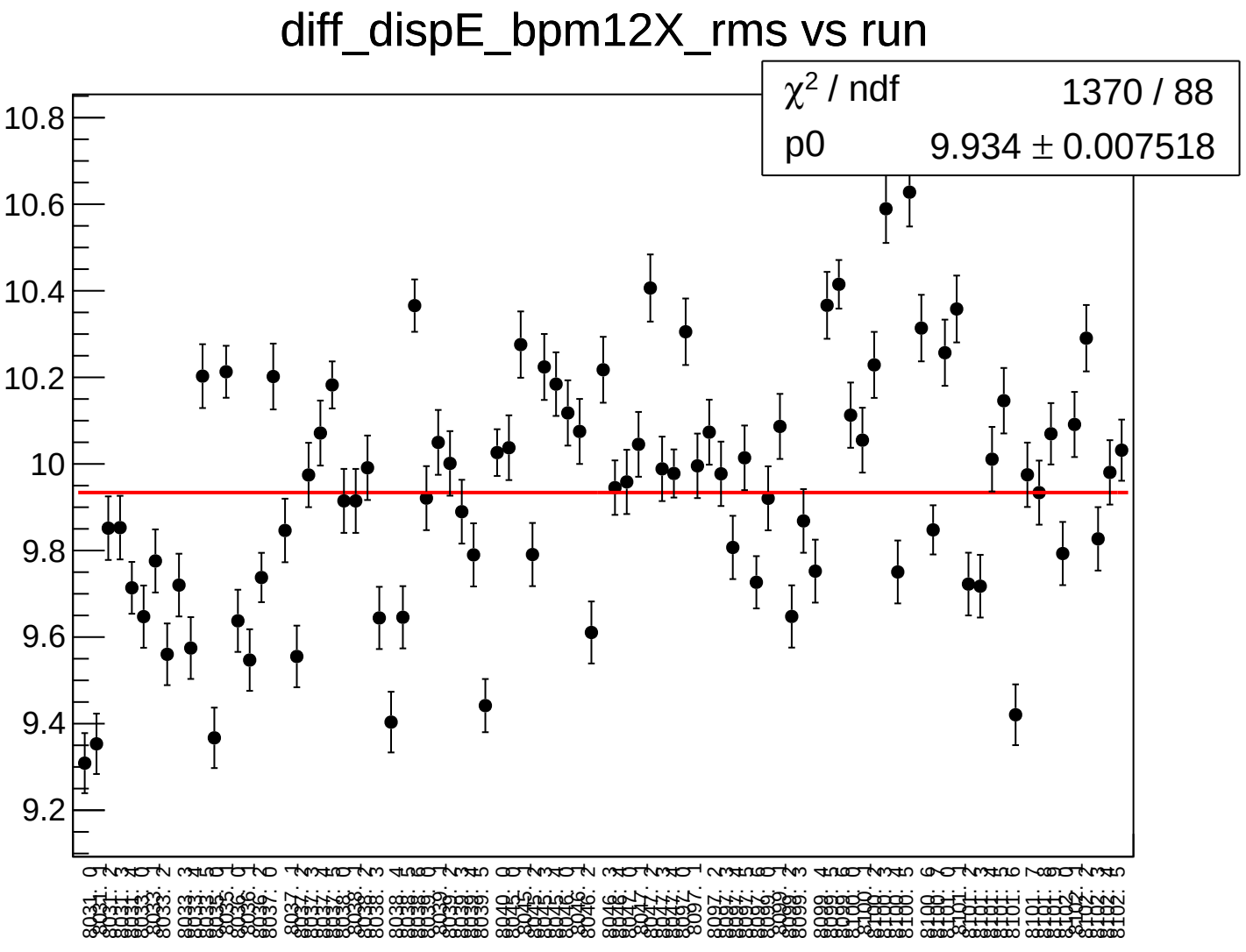

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 105.2 / 88
p0 0.6387 ± 0.8358
pull
Entries 89
Mean 345.1
Std Dev 0

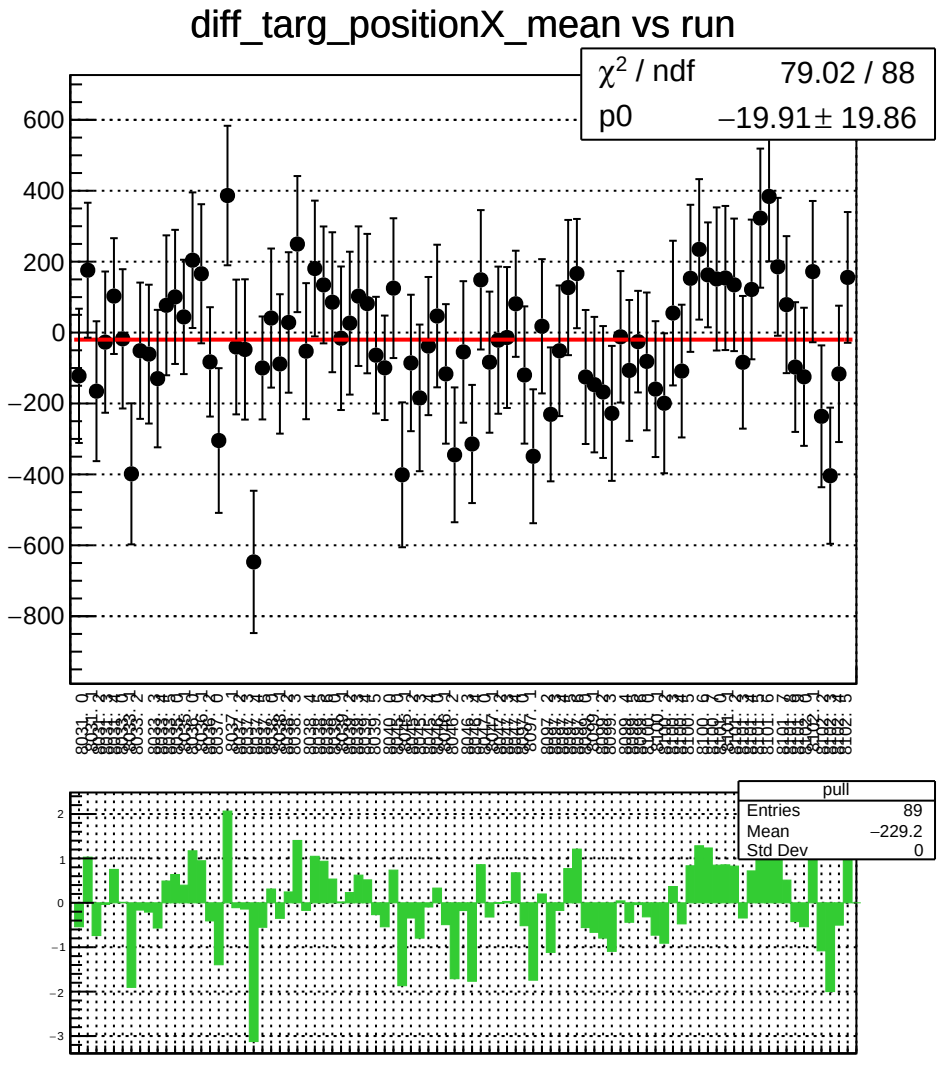

pull1D
Entries 89
Mean −0.001583
Std Dev 1.087

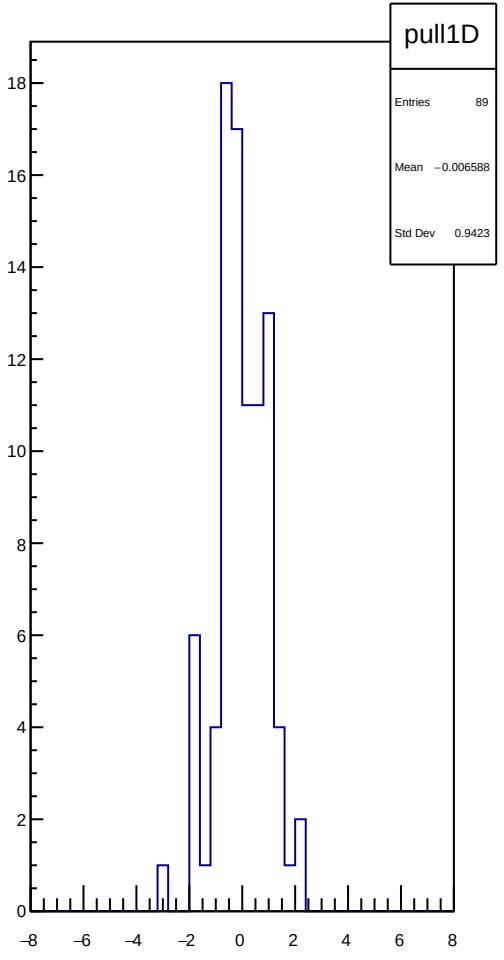

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 291.5 / 88
p0 781.2 ± 0.591
810
800
790
780
770
760
750

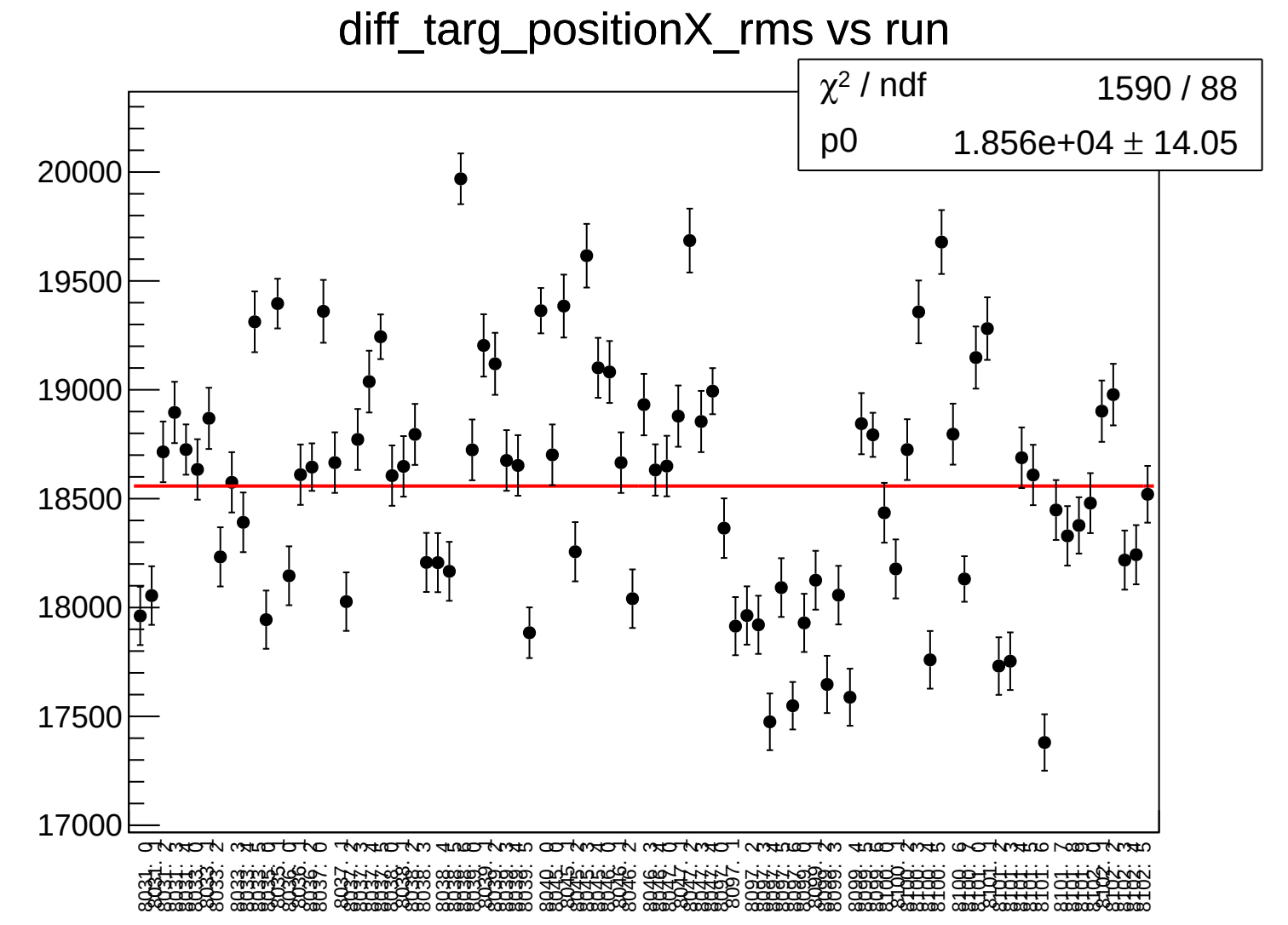

diff_dispE_bpm12X_mean vs run
χ² / ndf 91.99 / 88
p0 0.005776 ± 0.01063
pull
Entries 89
Mean −392.9
Std Dev 0

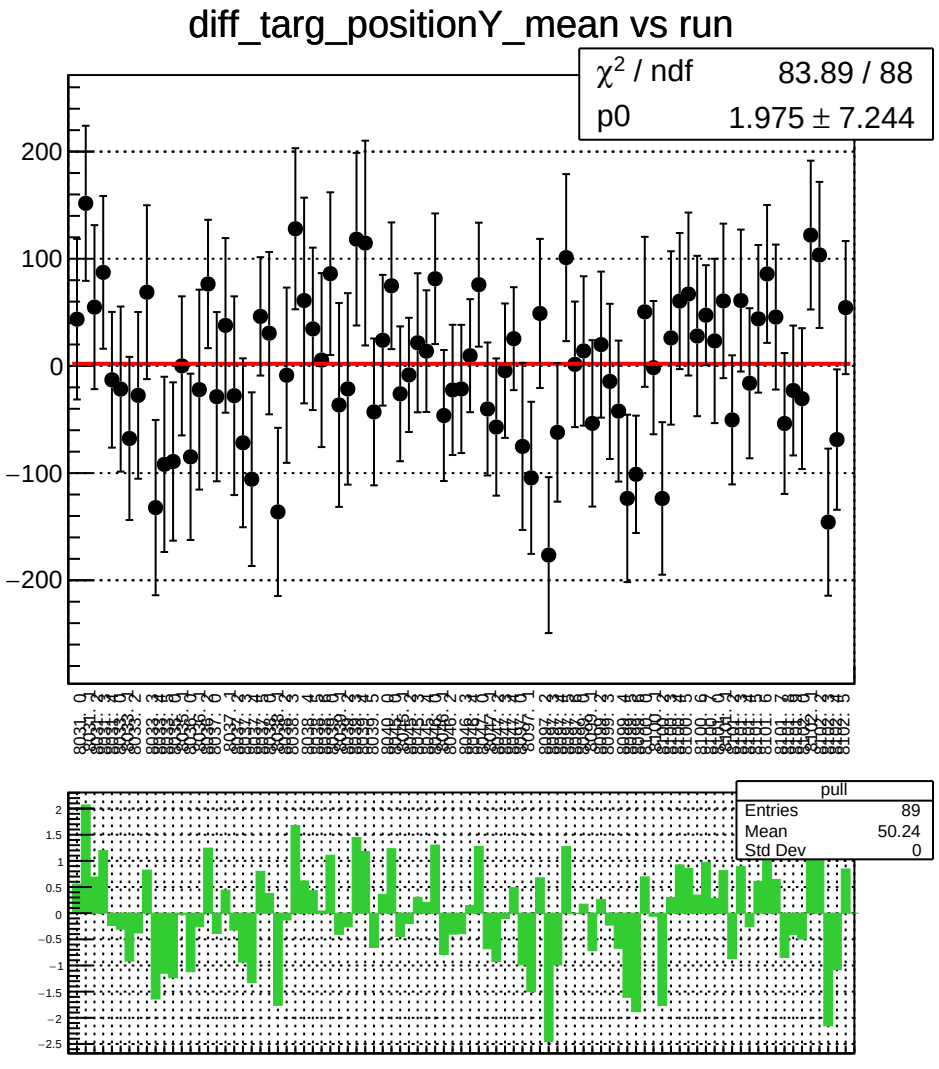

pull1D
Entries 89
Mean 0.003957
Std Dev 1.017

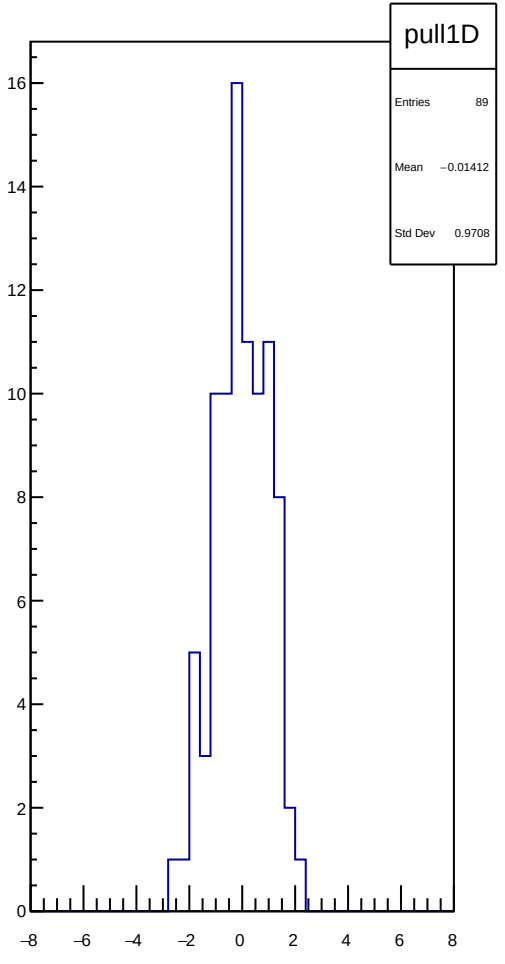

diff_dispE_bpm12X_rms vs run
$\chi^2$ / ndf 1370 / 88
p0 9.934 ± 0.007518
10.8
10.6
10.4
10.2
10
9.8
9.6
9.4
9.2

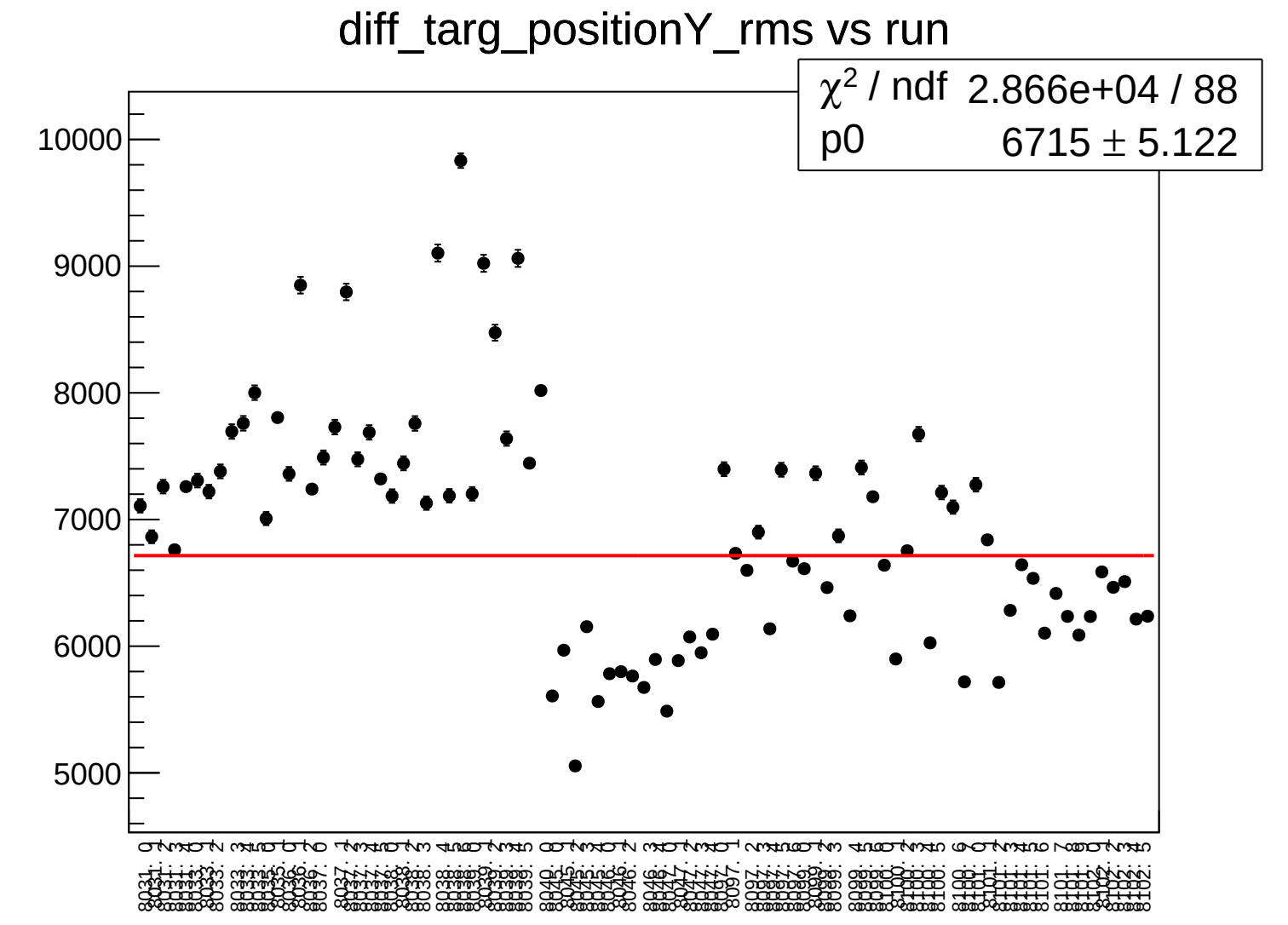

diff_targ_positionX_mean vs run
χ² / ndf 79.02 / 88
p0 −19.91± 19.86
pull
Entries 89
Mean −229.2
Std Dev 0

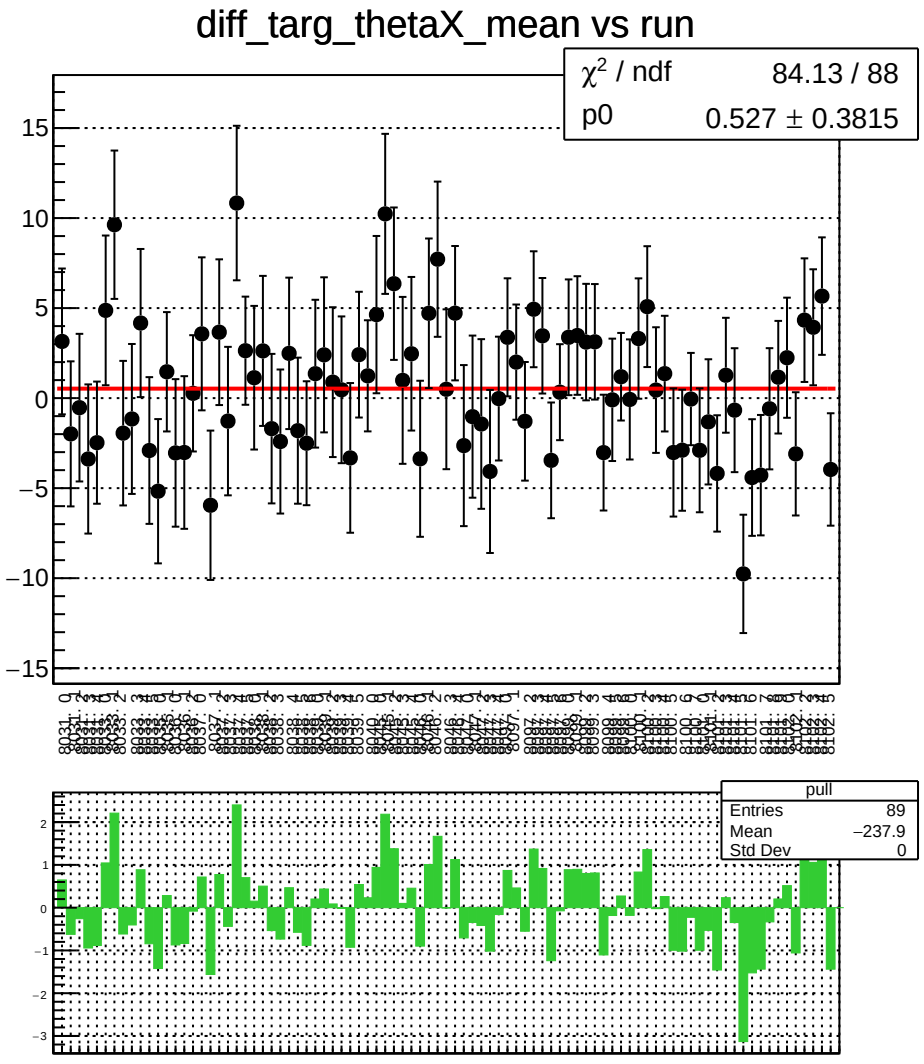

pull1D
Entries 89
Mean −0.006588
Std Dev 0.9423

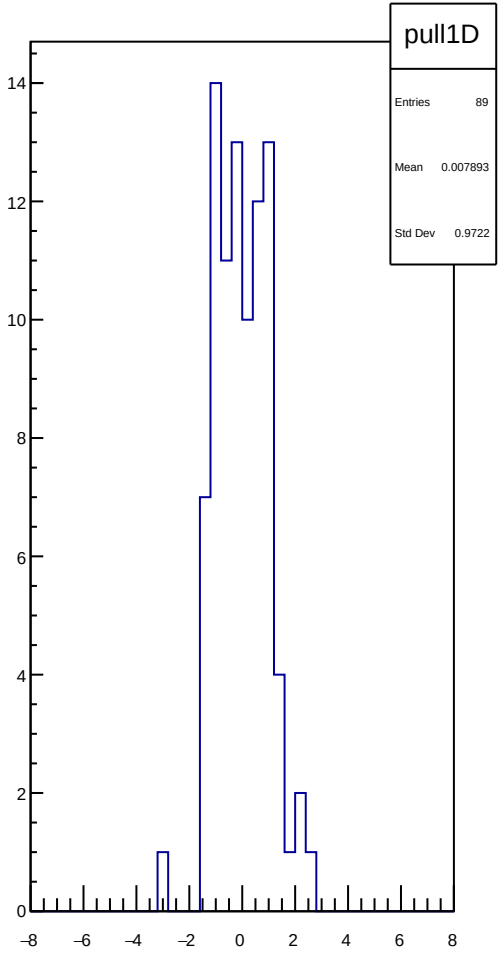

diff_targ_positionX_rms vs run
χ² / ndf 1590 / 88
p0 1.856e+04 ± 14.05
20000
19500
19000
18500
18000
17500
17000

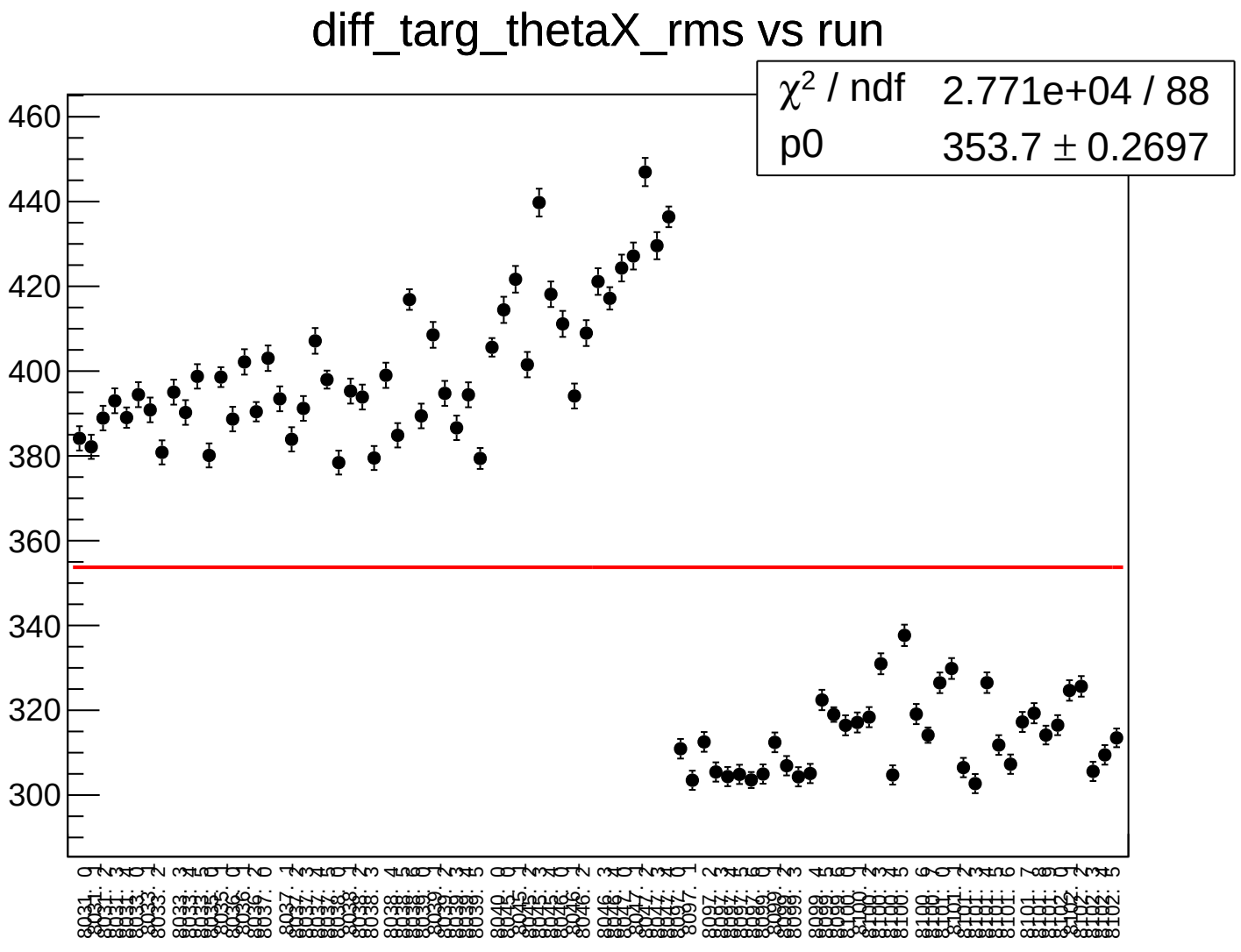

diff_targ_positionY_mean vs run
$\chi^2$ / ndf 83.89 / 88
p0 1.975 ± 7.244
200
100
0
−100
−200
pull
Entries 89
Mean 50.24
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

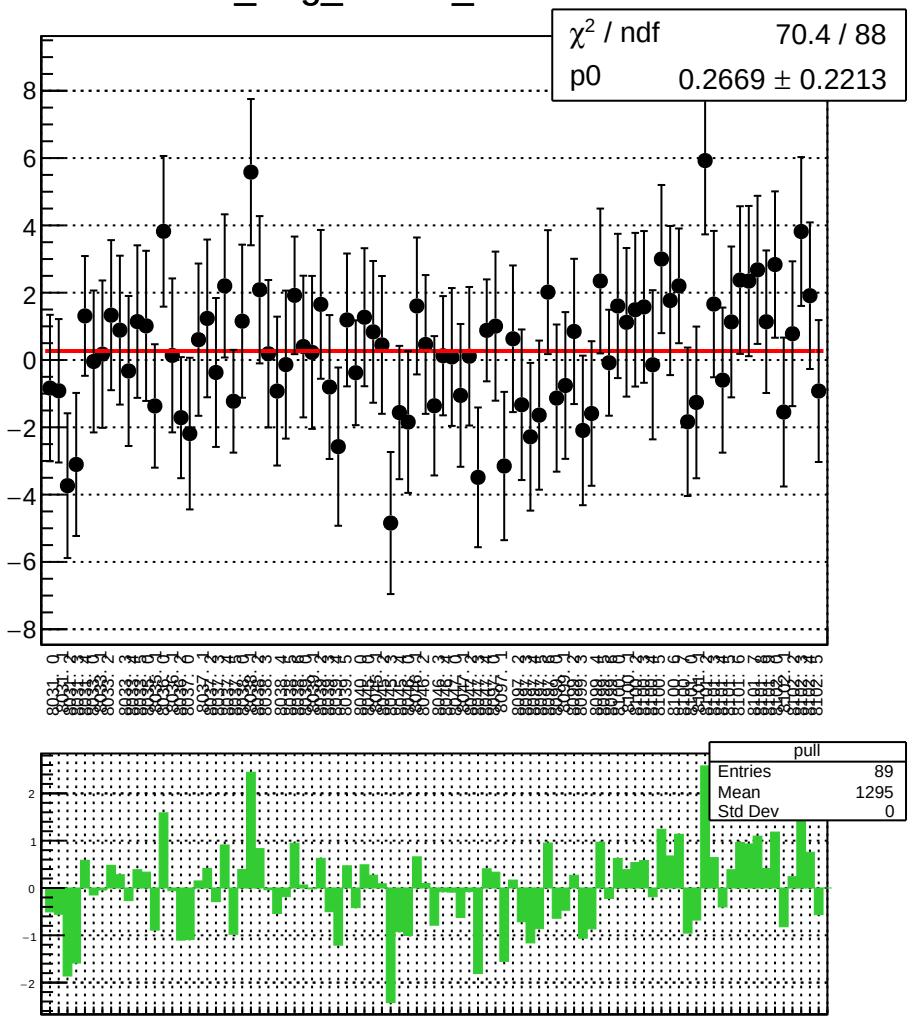

pull1D
Entries 89
Mean −0.01412
Std Dev 0.9708
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

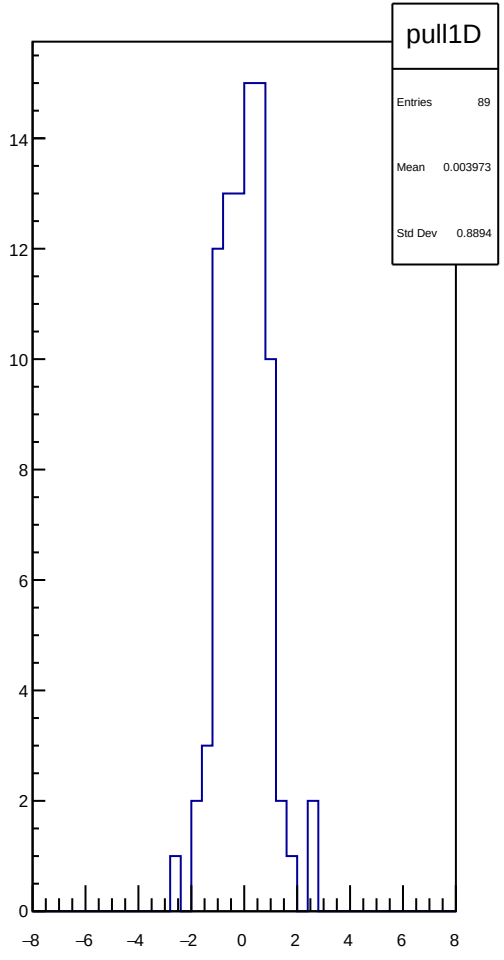

diff_targ_positionY_rms vs run
χ² / ndf 2.866e+04 / 88
p0 6715 ± 5.122
10000
9000
8000
7000
6000
5000

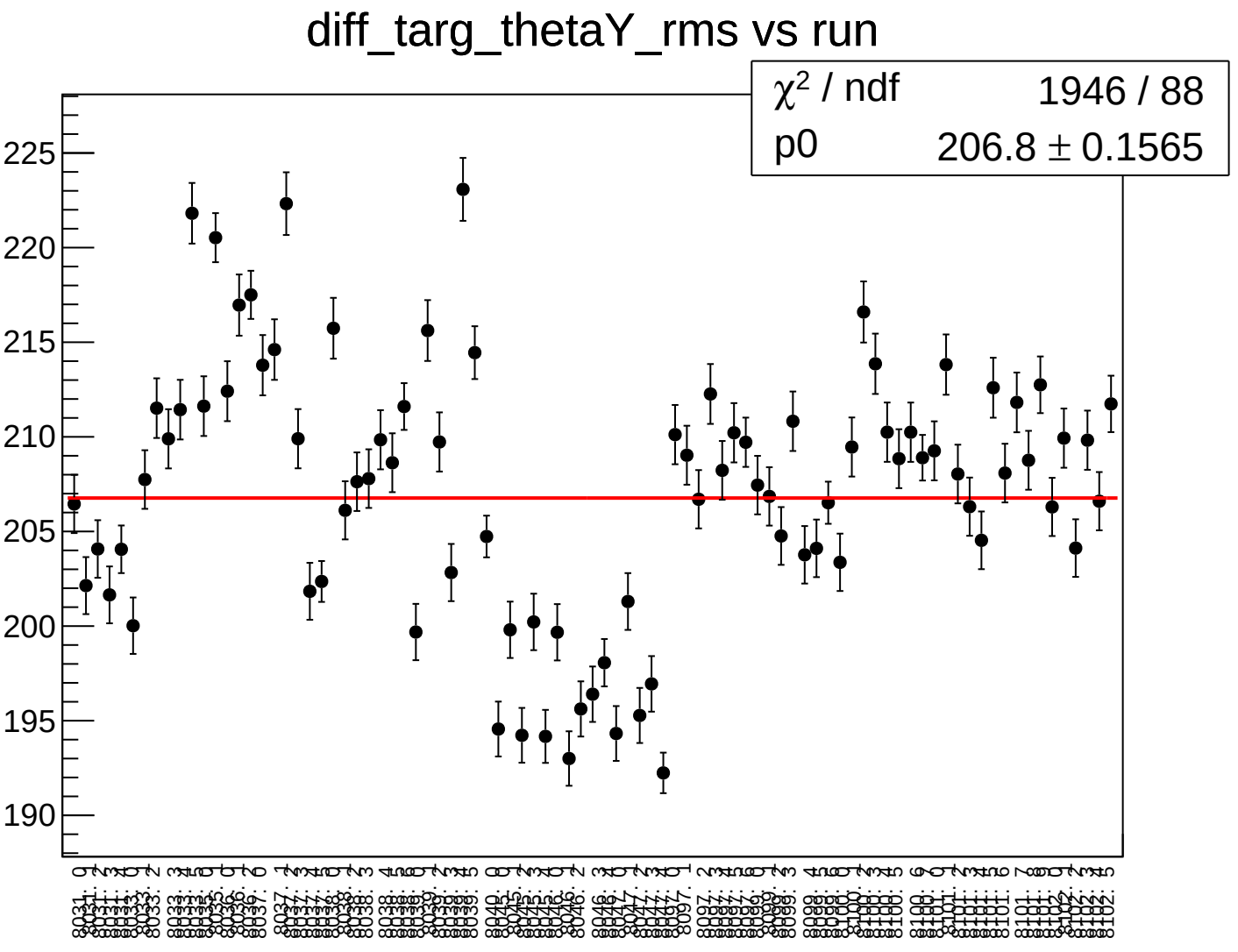

diff_targ_thetaX_mean vs run
χ² / ndf 84.13 / 88
p0 0.527 ± 0.3815
pull
Entries 89
Mean −237.9
Std Dev 0

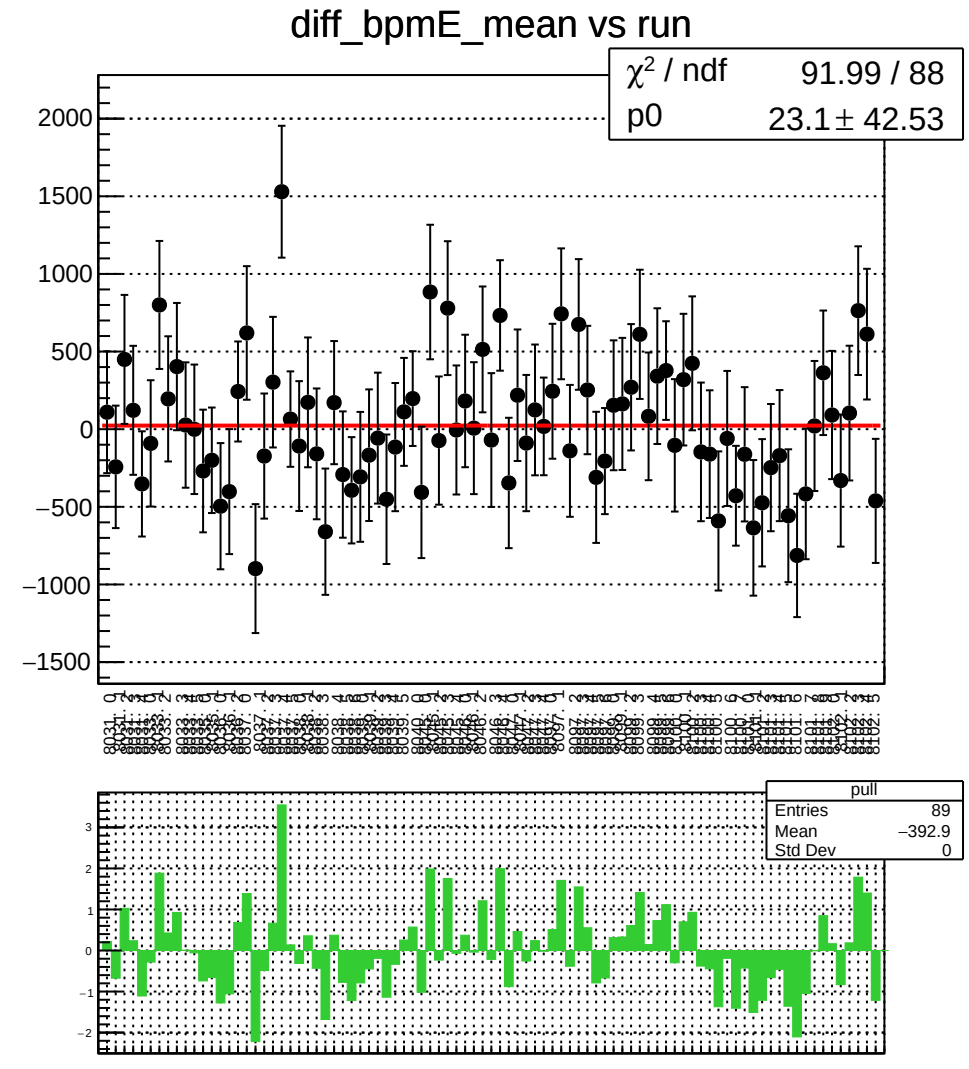

pull1D
Entries 89
Mean 0.007893
Std Dev 0.9722

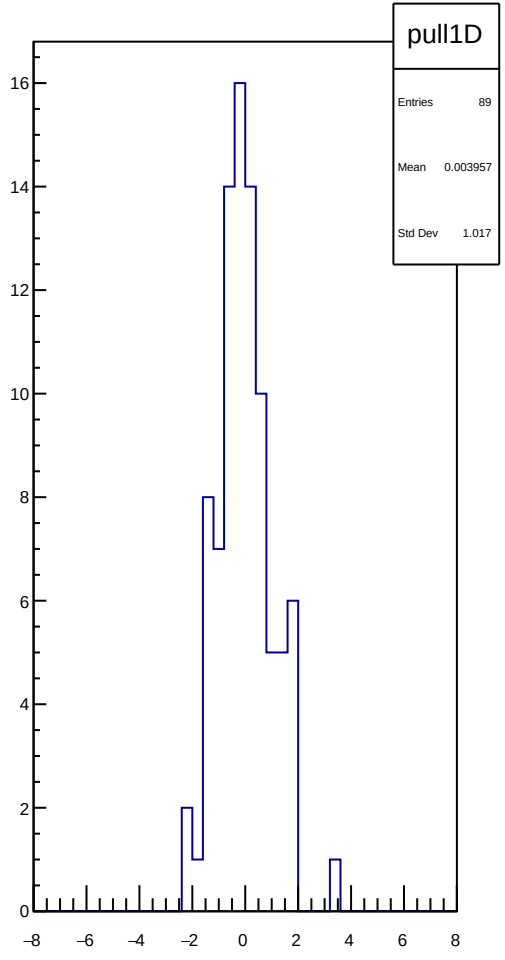

diff_targ_thetaX_rms vs run
χ² / ndf 2.771e+04 / 88
p0 353.7 ± 0.2697
460
440
420
400
380
360
340
320
300

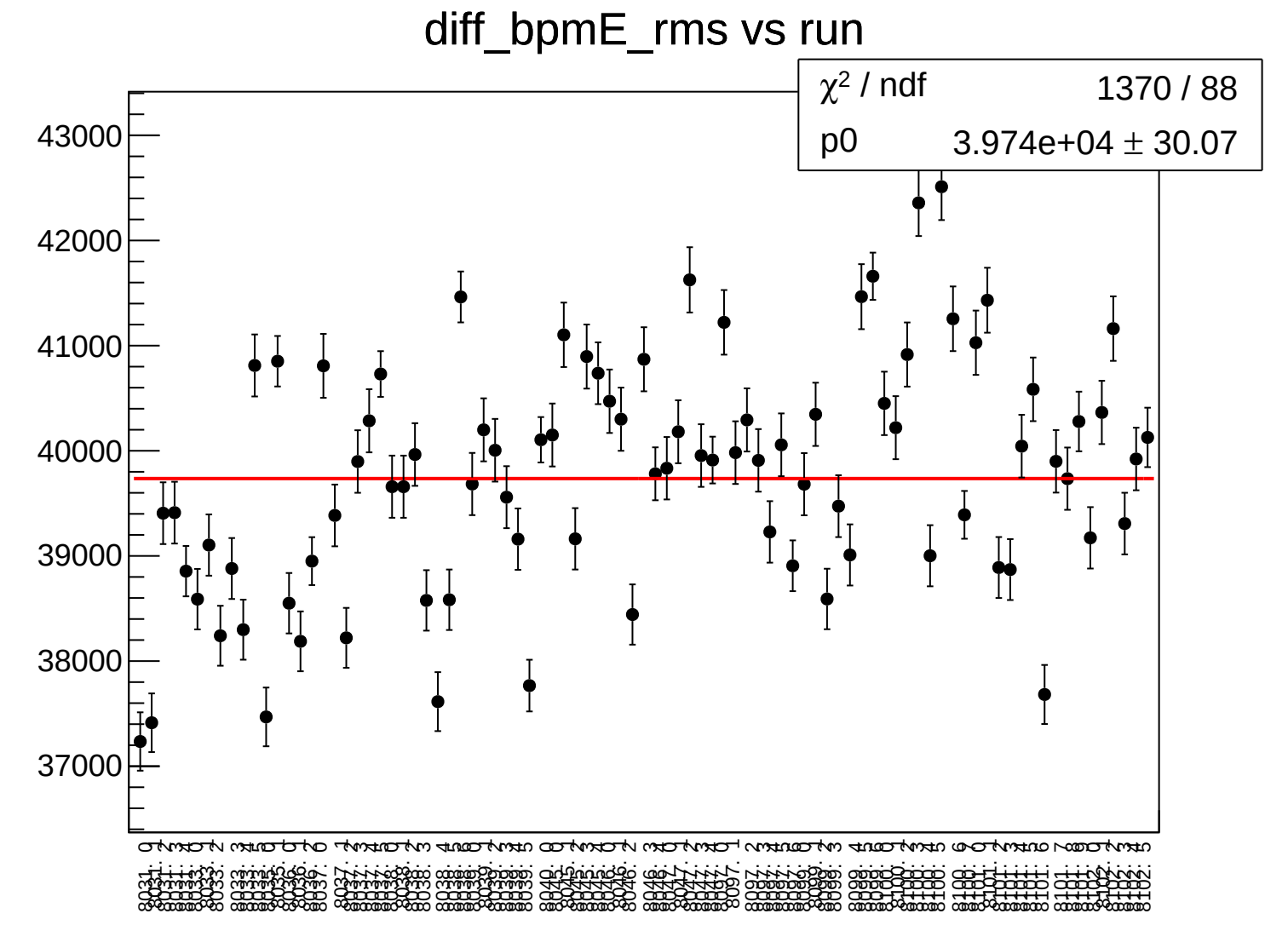

diff_targ_thetaY_mean vs run
χ² / ndf 70.4 / 88
p0 0.2669 ± 0.2213
pull
Entries 89
Mean 1295
Std Dev 0

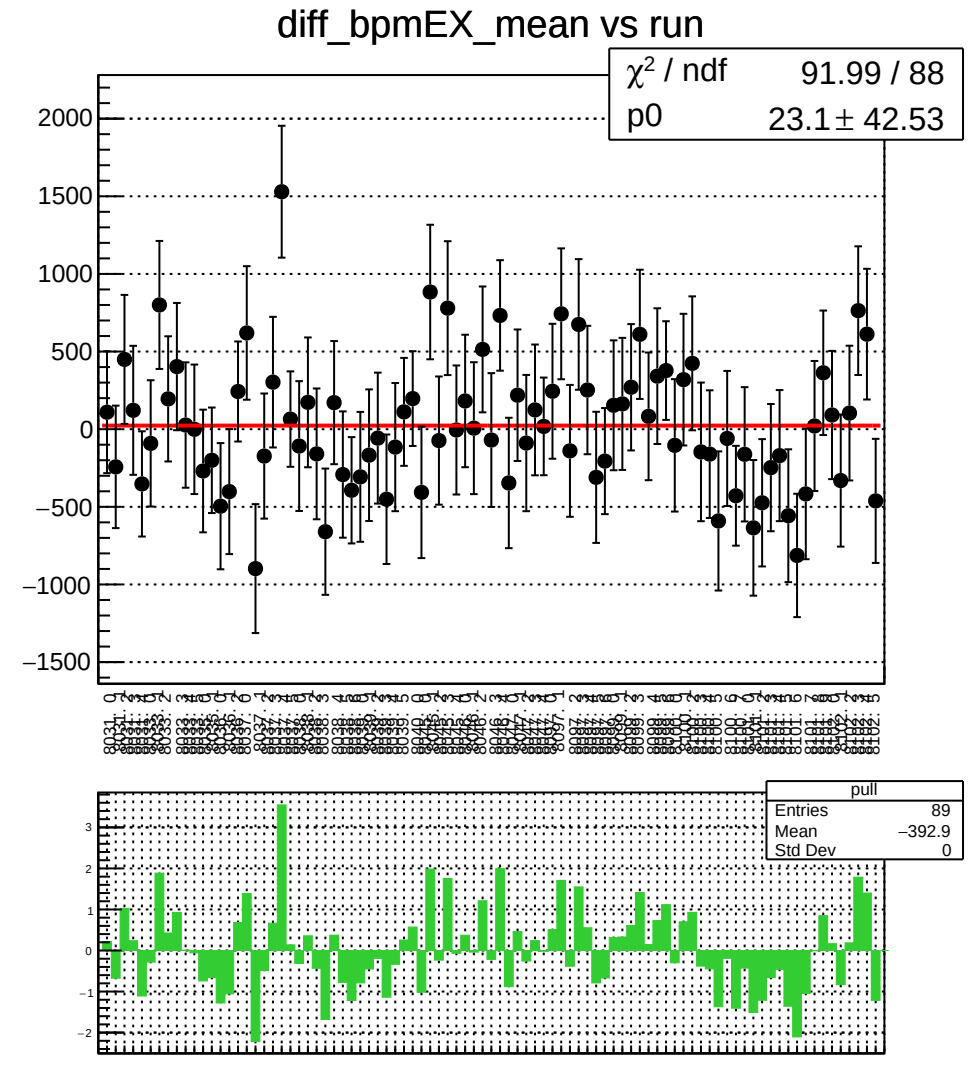

pull1D
Entries 89
Mean 0.003973
Std Dev 0.8894

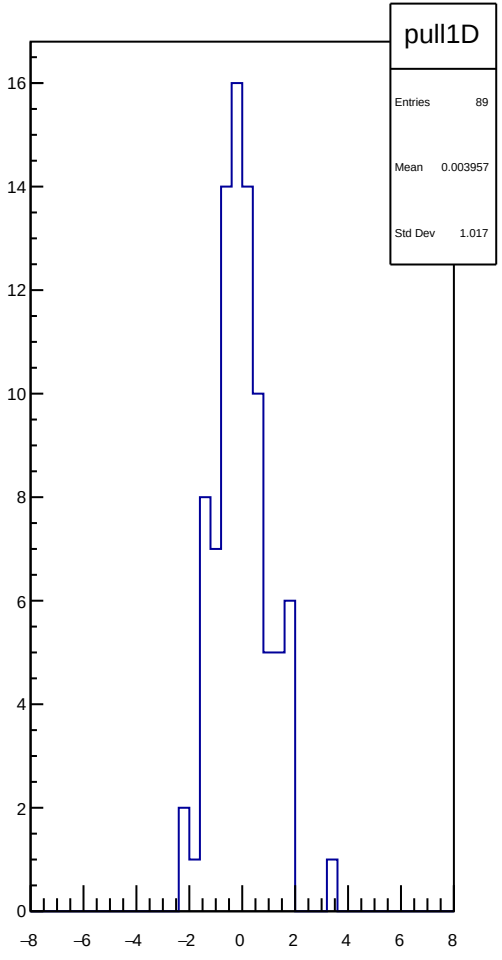

diff_targ_thetaY_rms vs run
χ² / ndf 1946 / 88
p0 206.8 ± 0.1565
225
220
215
210
205
200
195
190

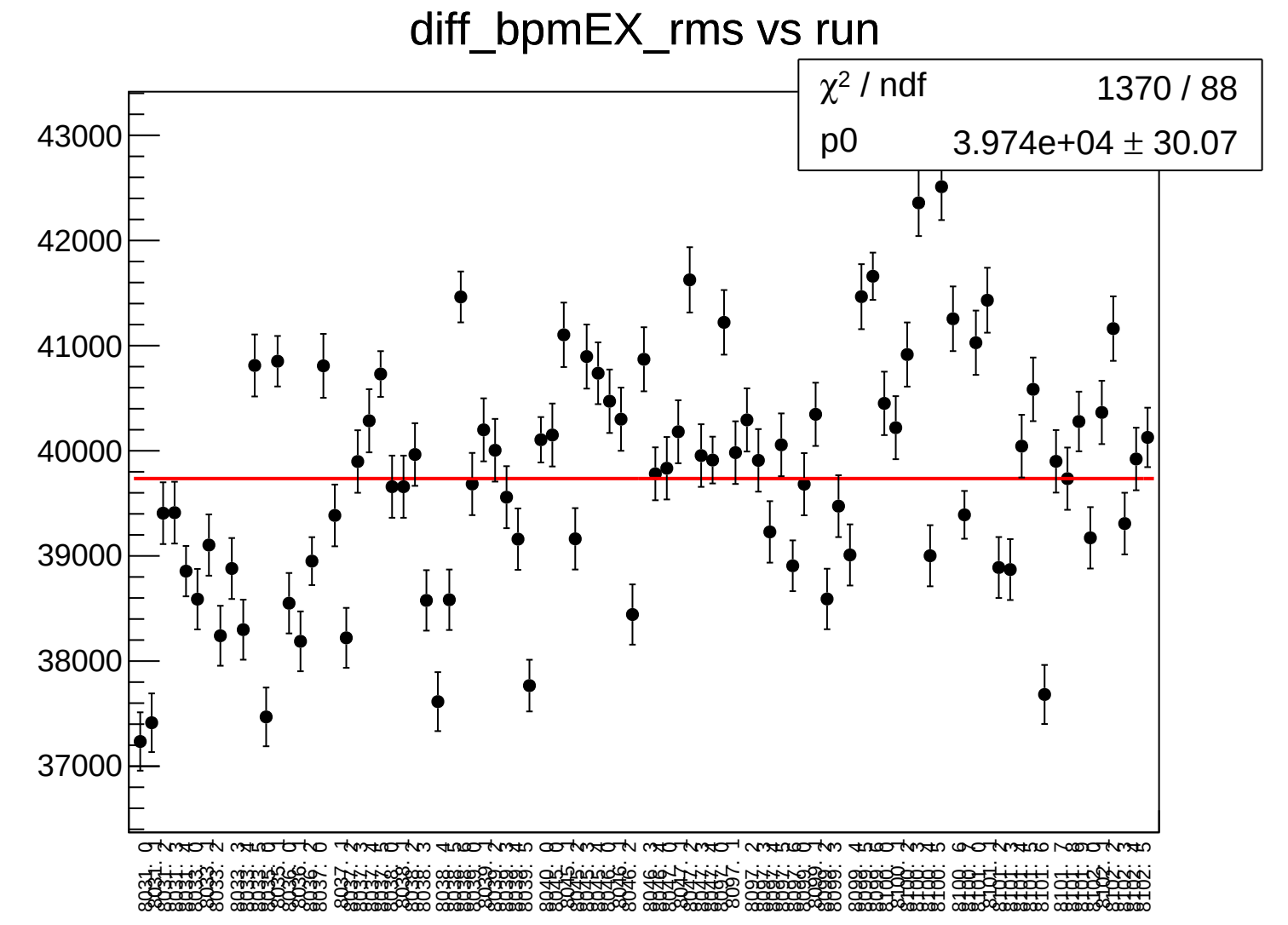

diff_bpmE_mean vs run
χ² / ndf 91.99 / 88
p0 23.1 ± 42.53
2000
1500
1000
500
0
−500
−1000
−1500
pull
Entries 89
Mean −392.9
Std Dev 0
3
2
1
0
−1
−2

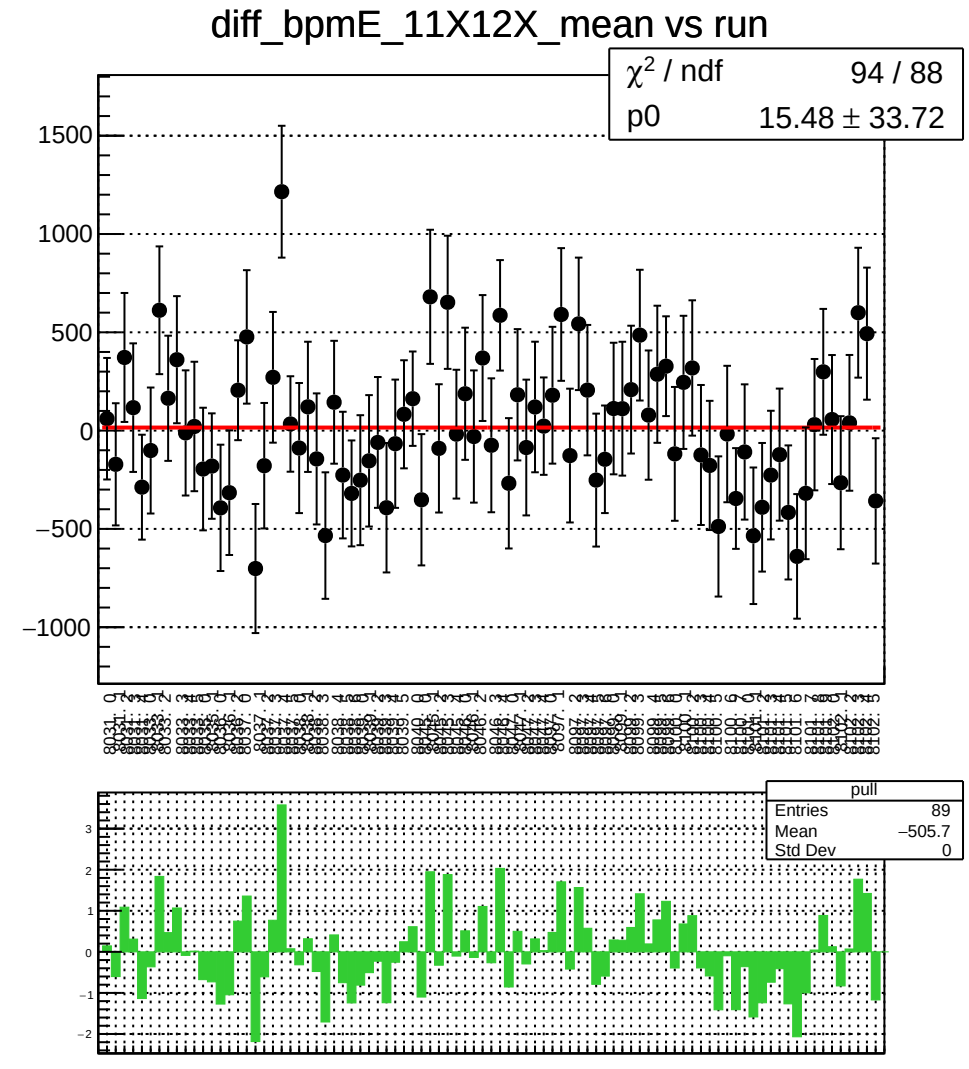

pull1D
Entries 89
Mean 0.003957
Std Dev 1.017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

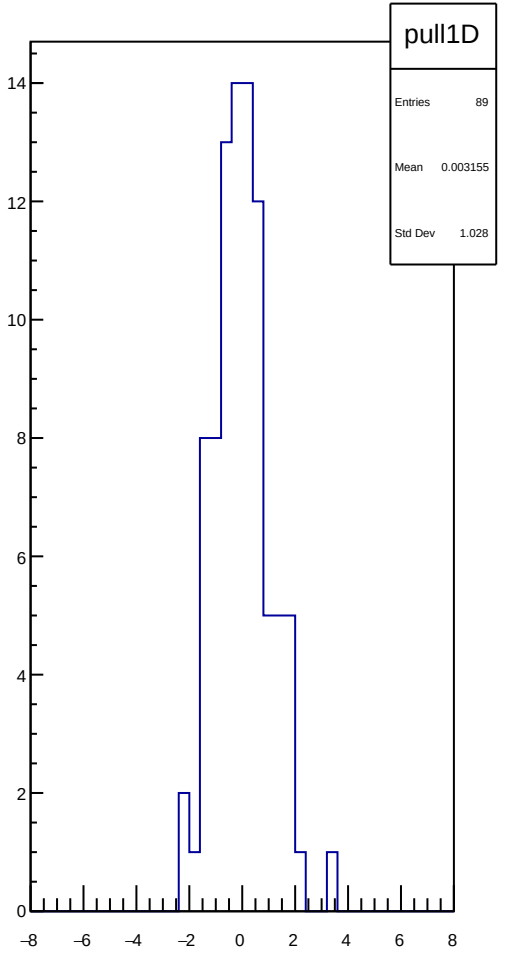

diff_bpmE_rms vs run
χ² / ndf 1370 / 88
p0 3.974e+04 ± 30.07
43000
42000
41000
40000
39000
38000
37000

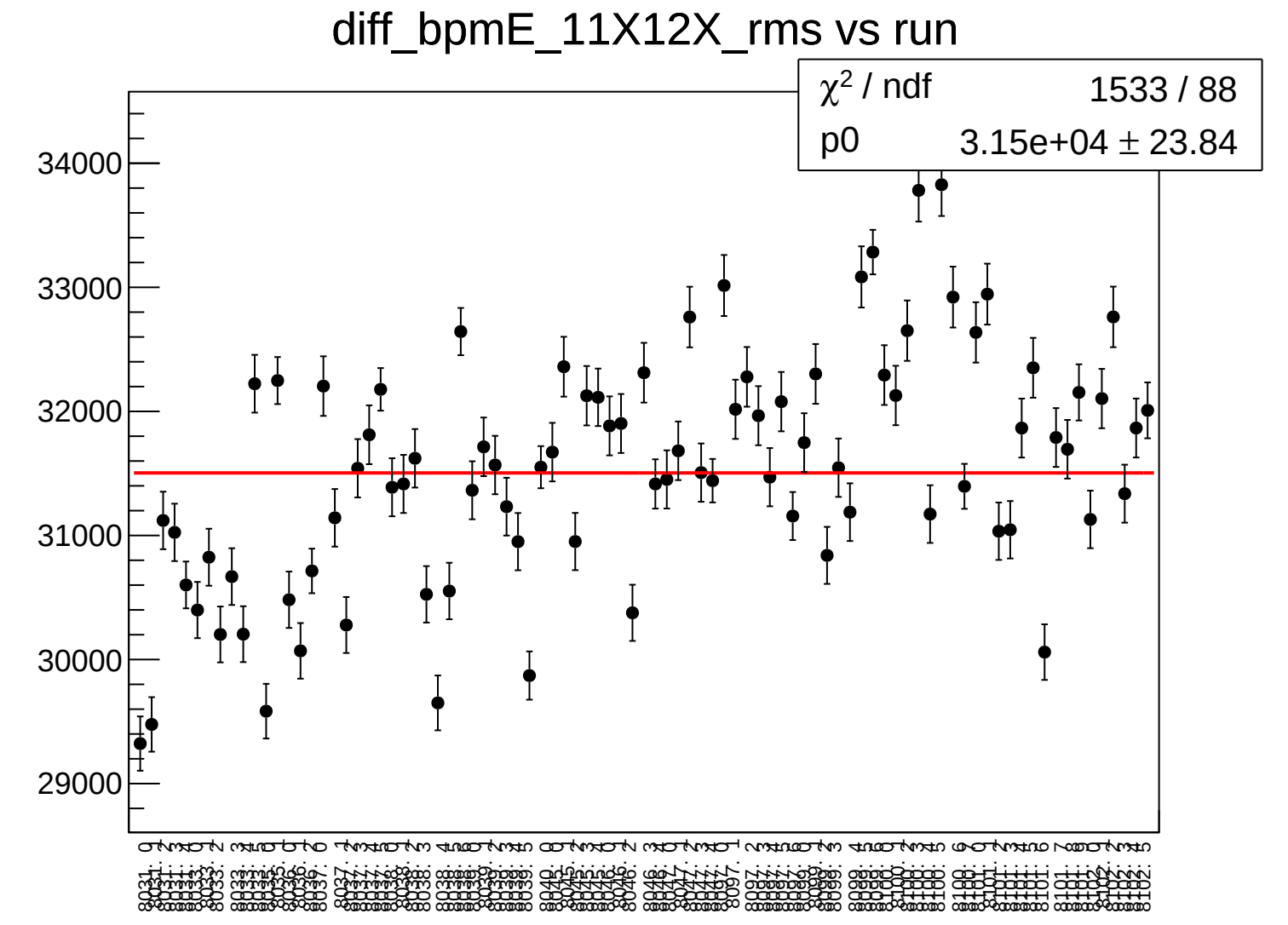

diff_bpmEX_mean vs run
χ² / ndf 91.99 / 88
p0 23.1 ± 42.53
pull
Entries 89
Mean −392.9
Std Dev 0

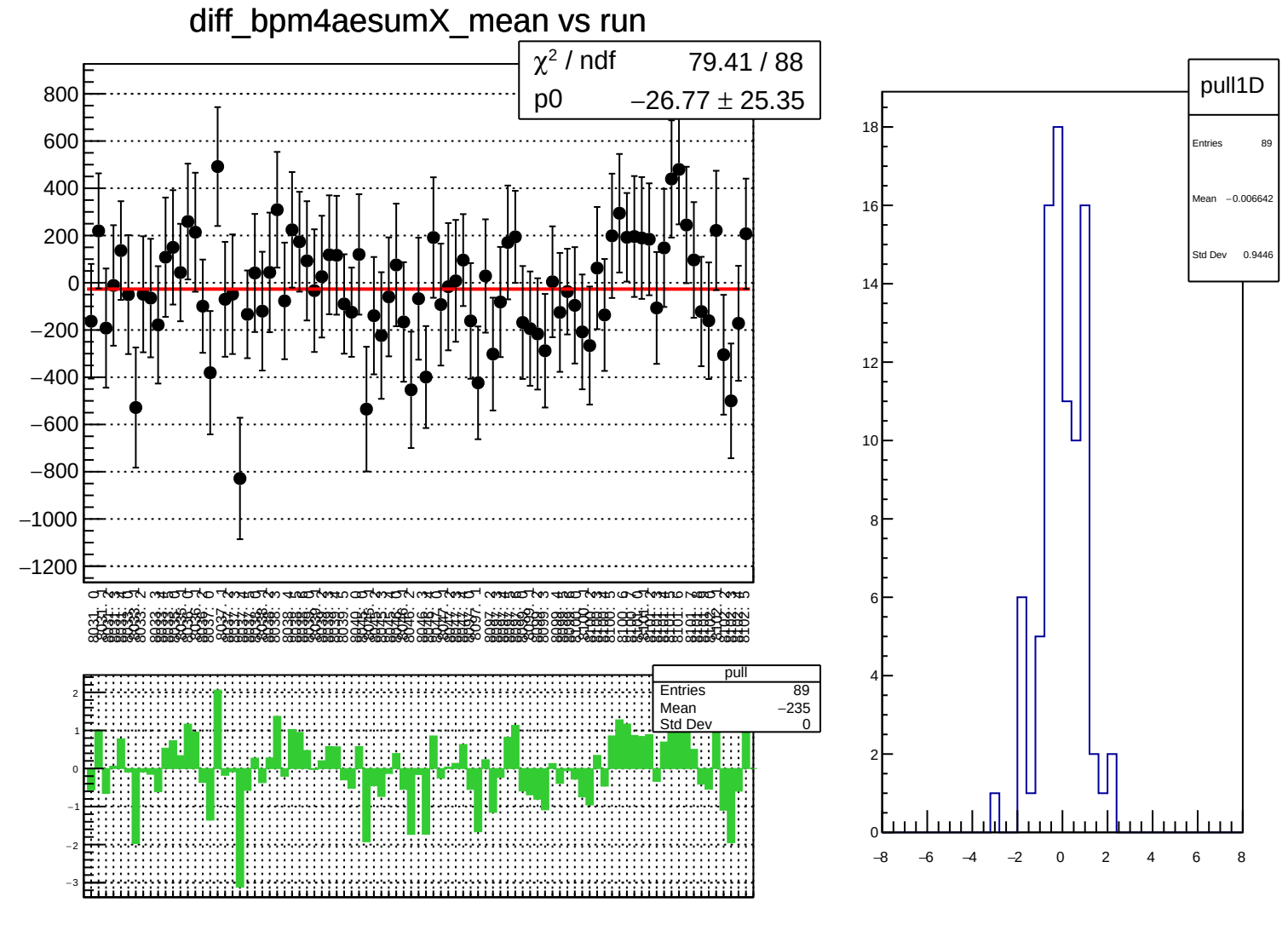

pull1D
Entries 89
Mean 0.003957
Std Dev 1.017

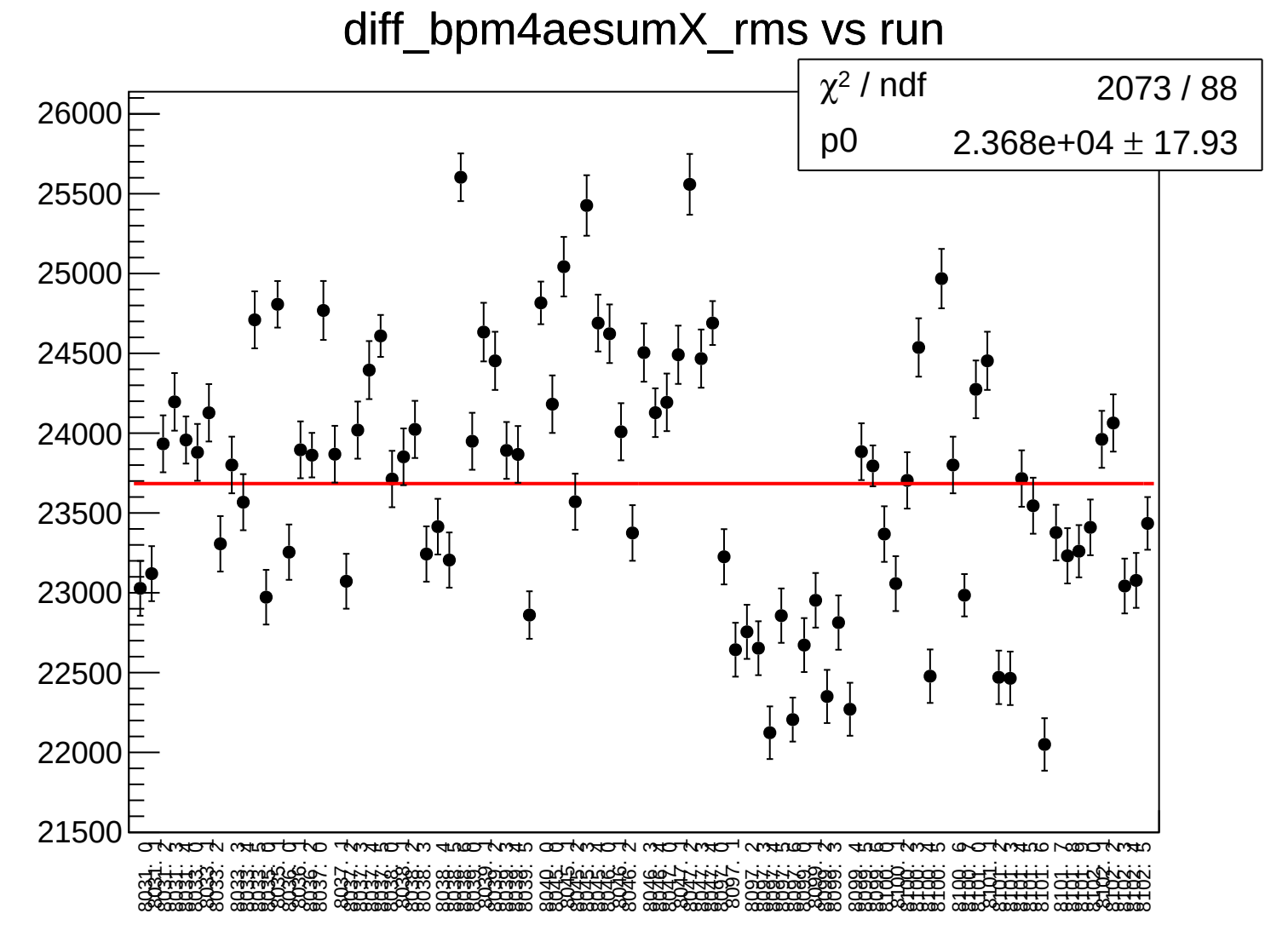

diff_bpmEX_rms vs run
χ² / ndf 1370 / 88
p0 3.974e+04 ± 30.07
43000
42000
41000
40000
39000
38000
37000

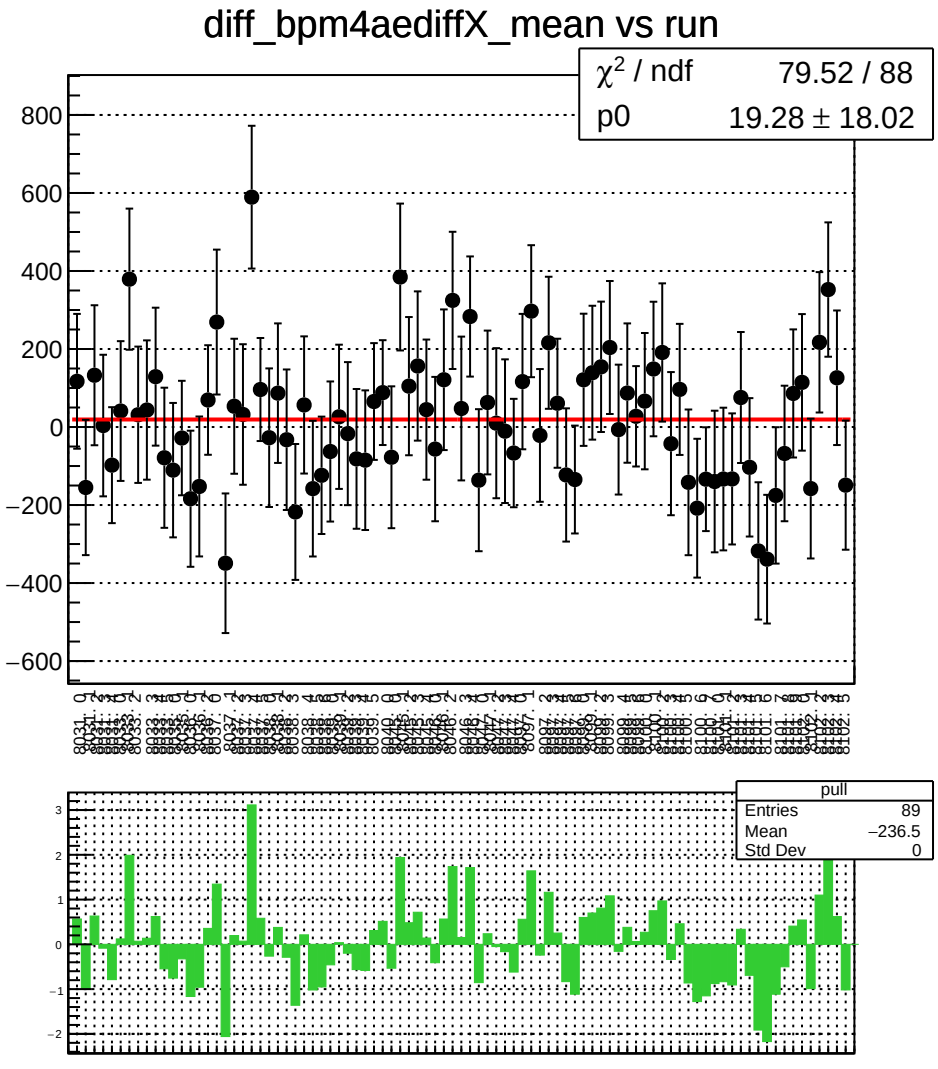

diff_bpmE_11X12X_mean vs run
χ² / ndf 94 / 88
p0 15.48 ± 33.72
1500
1000
500
0
−500
−1000
pull
Entries 89
Mean −505.7
Std Dev 0
3
2
1
0
−1
−2

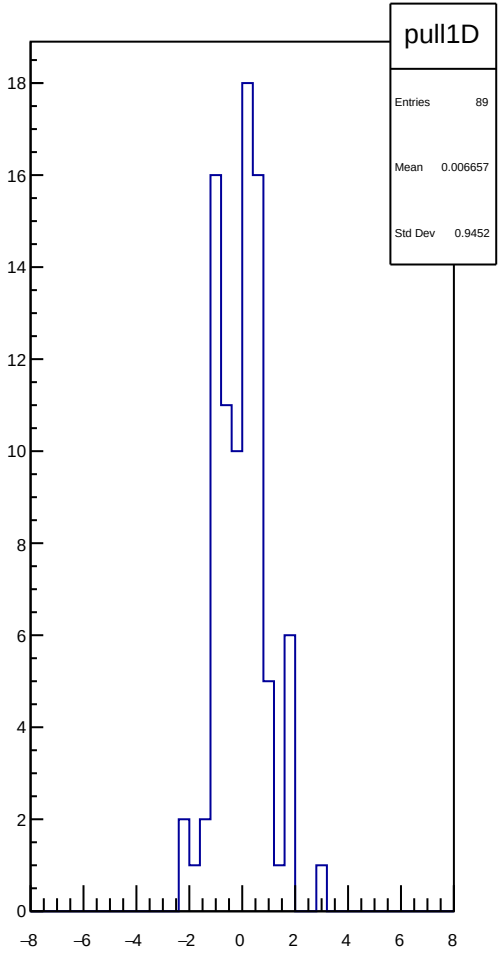

pull1D
Entries 89
Mean 0.003155
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

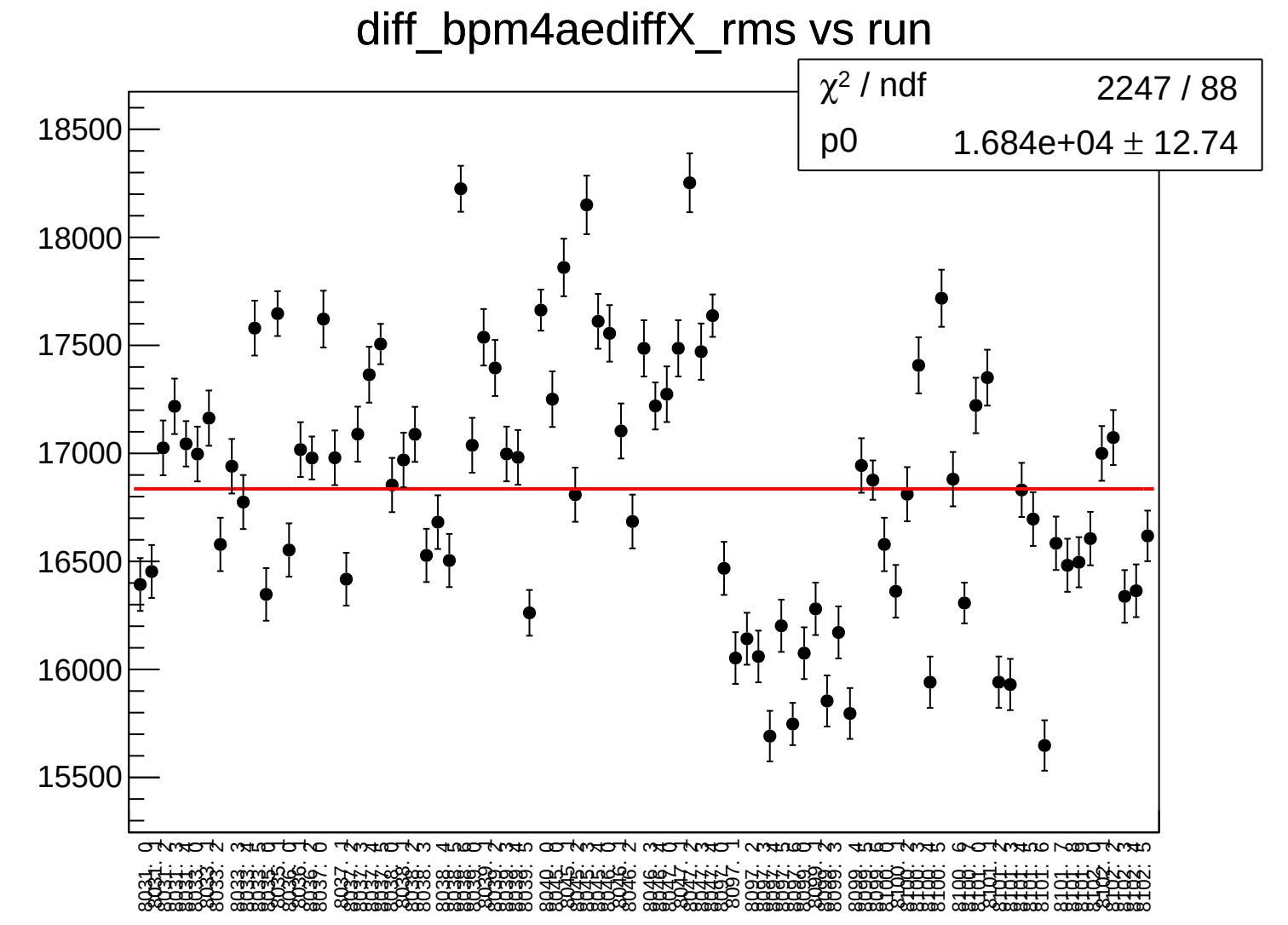

diff_bpmE_11X12X_rms vs run
χ² / ndf 1533 / 88
p0 3.15e+04 ± 23.84
34000
33000
32000
31000
30000
29000

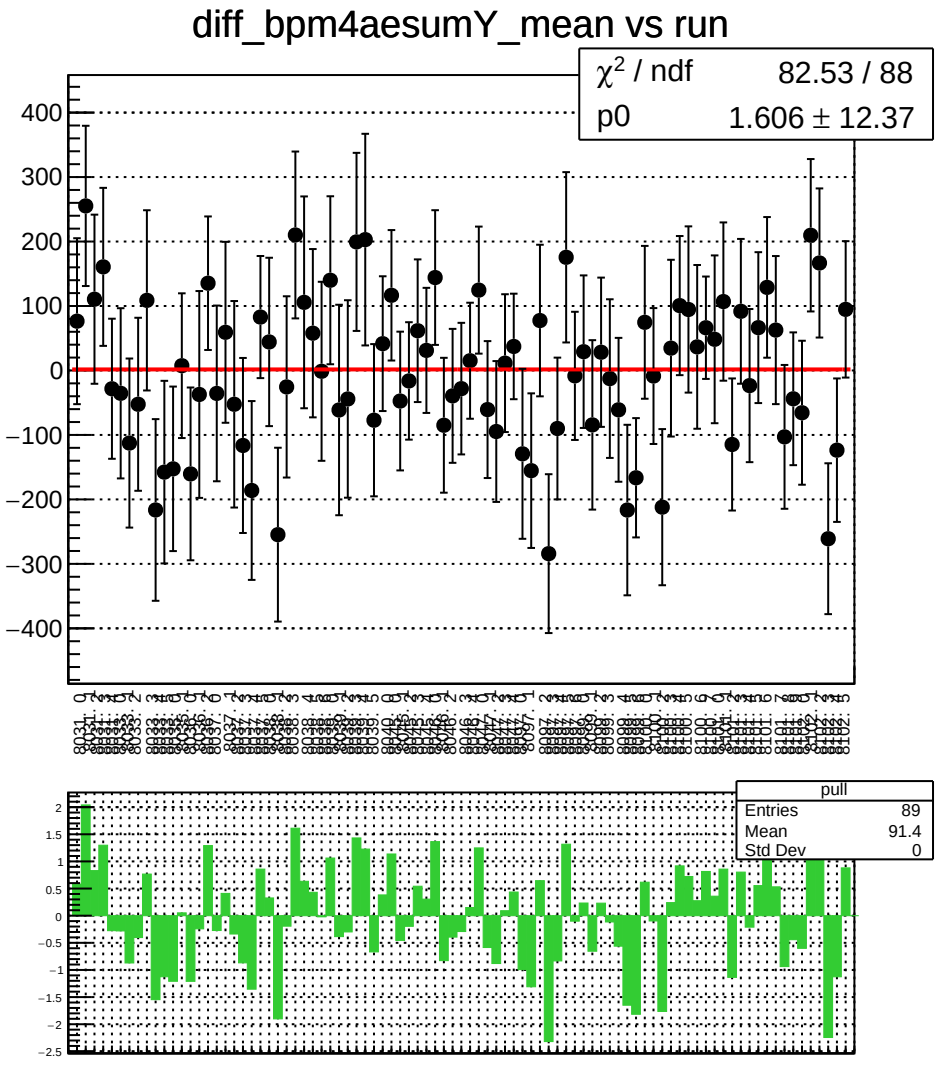

diff_bpm4aesumX_mean vs run
χ² / ndf 79.41 / 88
p0 −26.77 ± 25.35
pull
Entries 89
Mean −235
Std Dev 0
pull1D
Entries 89
Mean −0.006642
Std Dev 0.9446

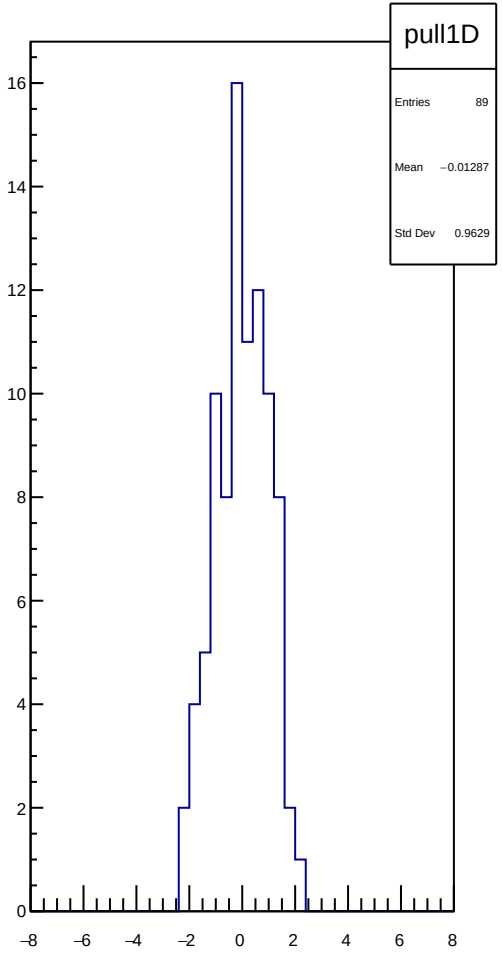

diff_bpm4aesumX_rms vs run
χ² / ndf 2073 / 88
p0 2.368e+04 ± 17.93
26000
25500
25000
24500
24000
23500
23000
22500
22000
21500

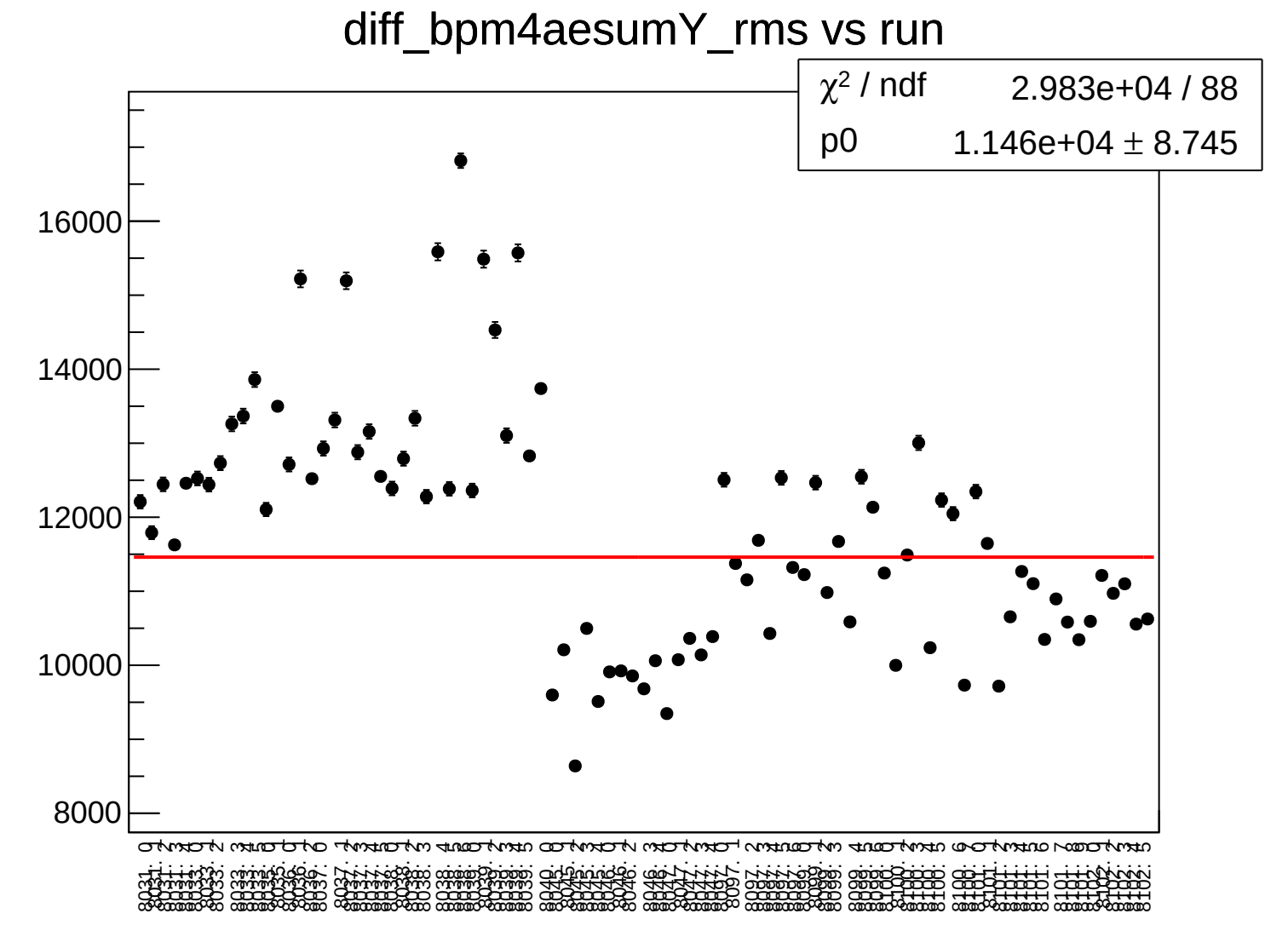

diff_bpm4aediffX_mean vs run
χ² / ndf 79.52 / 88
p0 19.28 ± 18.02
pull
Entries 89
Mean −236.5
Std Dev 0

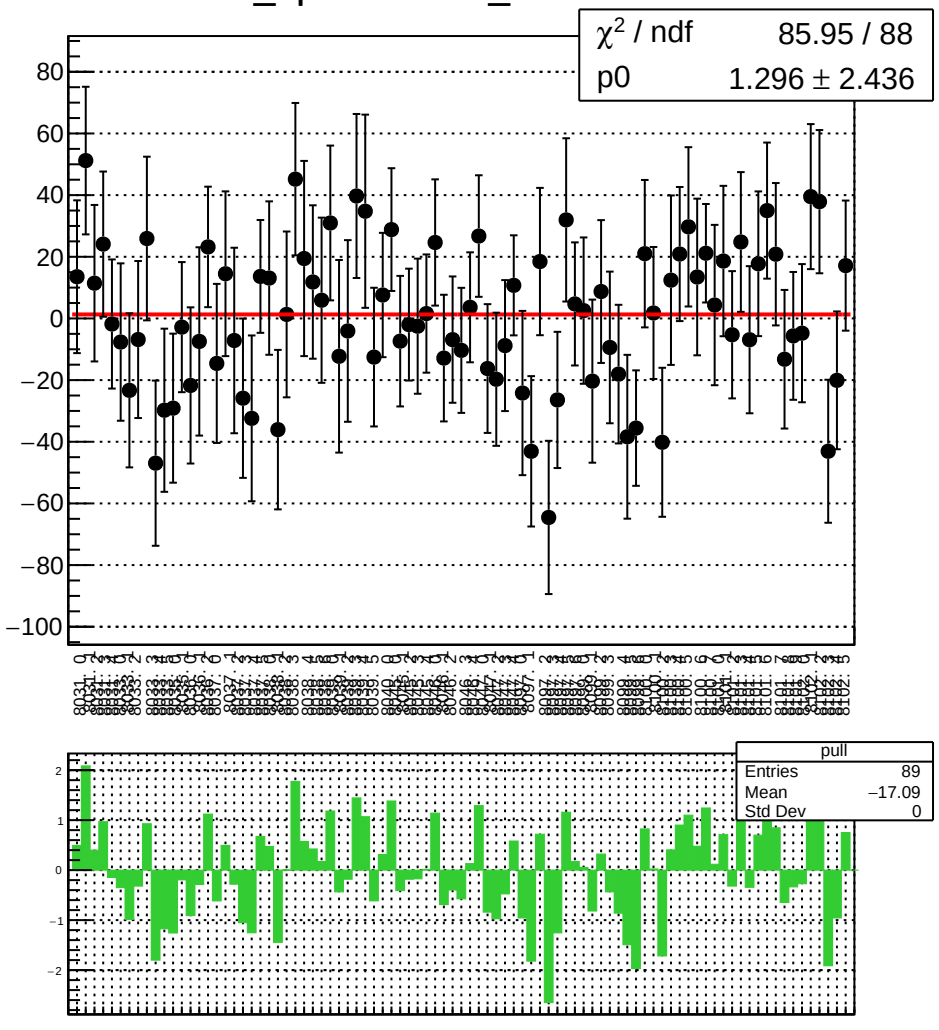

pull1D
Entries 89
Mean 0.006657
Std Dev 0.9452

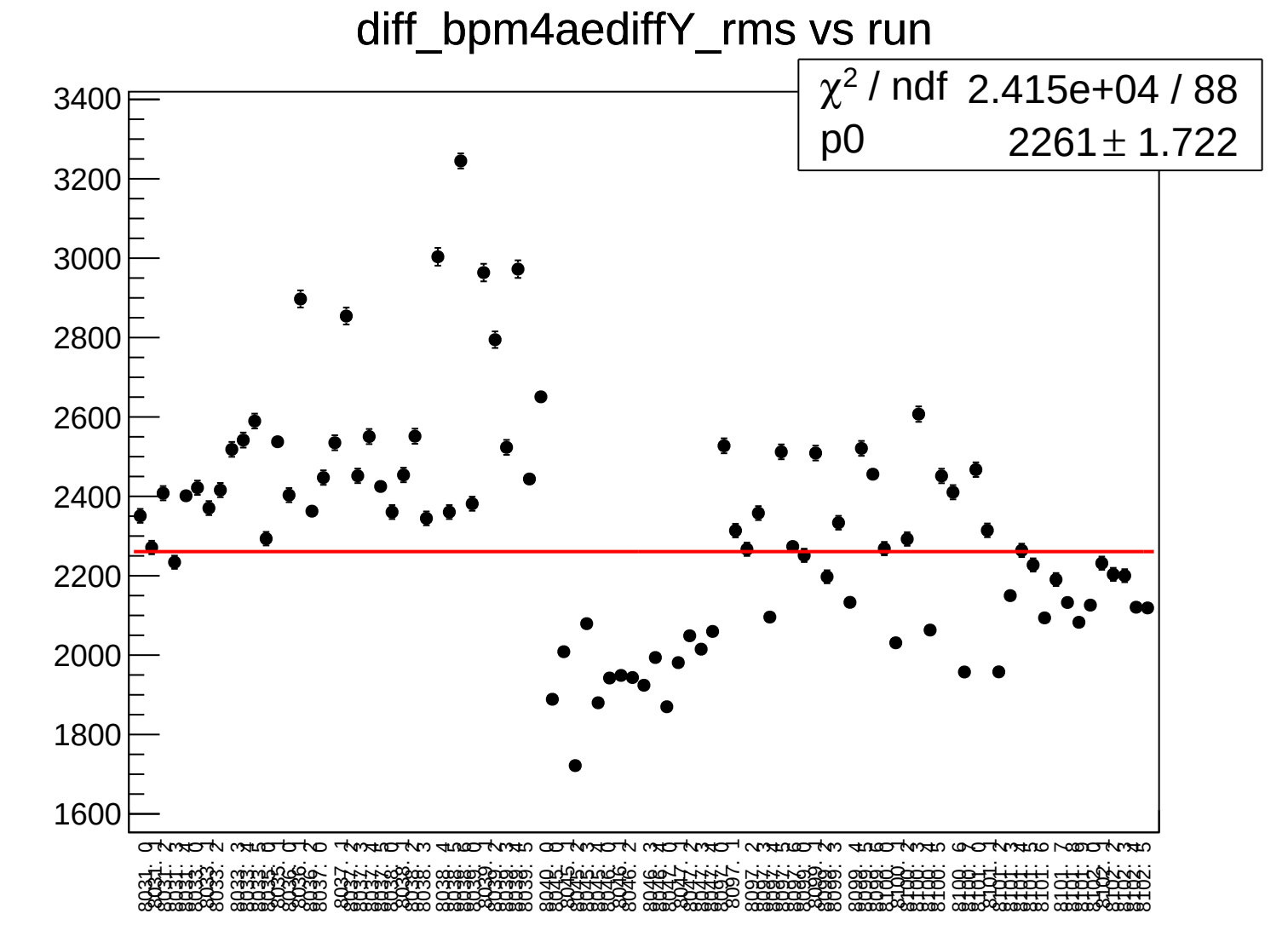

diff_bpm4aediffX_rms vs run
χ² / ndf 2247 / 88
p0 1.684e+04 ± 12.74
18500
18000
17500
17000
16500
16000
15500

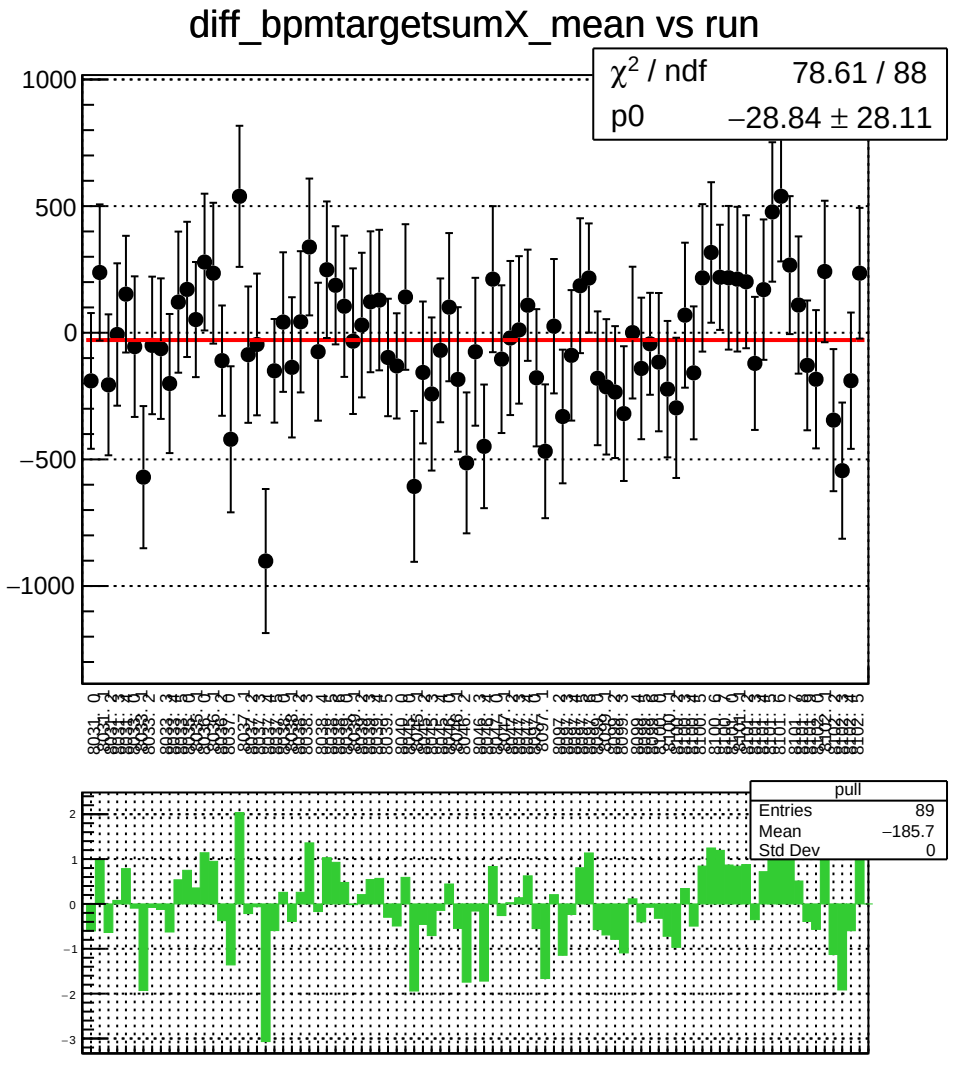

diff_bpm4aesumY_mean vs run
χ² / ndf 82.53 / 88
p0 1.606 ± 12.37
pull
Entries 89
Mean 91.4
Std Dev 0

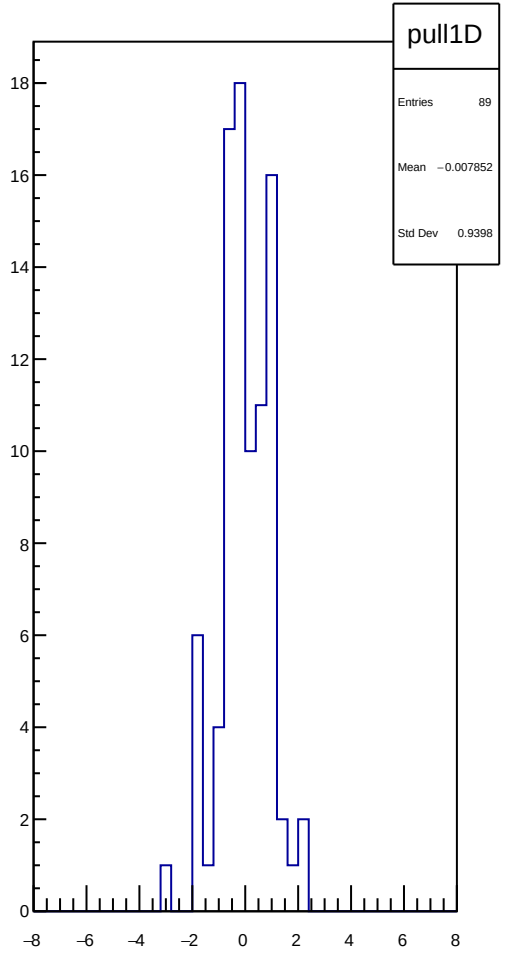

pull1D
Entries 89
Mean −0.01287
Std Dev 0.9629

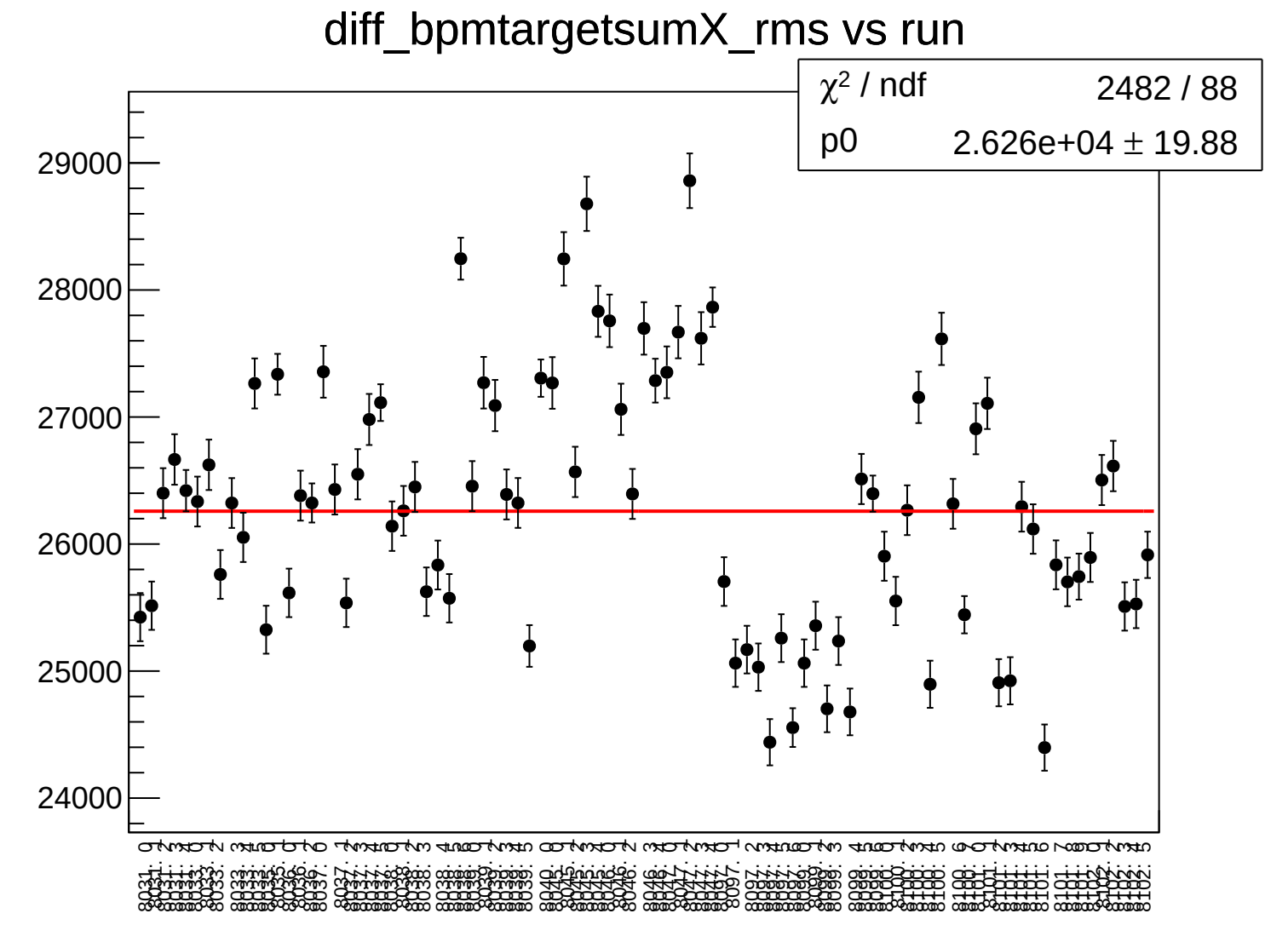

diff_bpm4aesumY_rms vs run
χ² / ndf 2.983e+04 / 88
p0 1.146e+04 ± 8.745
16000
14000
12000
10000
8000

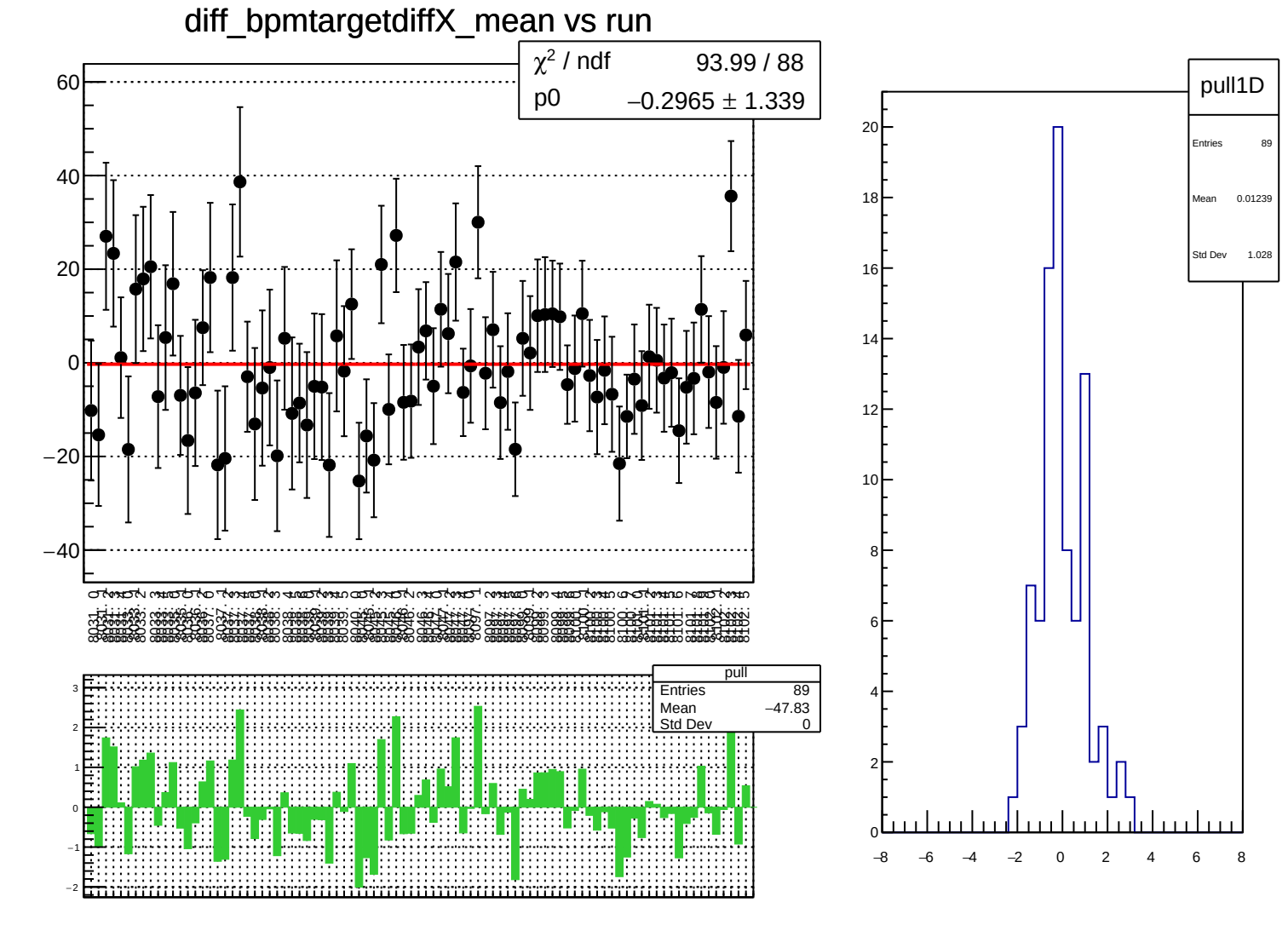

diff_bpm4aediffY_mean vs run
χ² / ndf 85.95 / 88
p0 1.296 ± 2.436
pull
Entries 89
Mean −17.09
Std Dev 0
pull1D
Entries 89
Mean −0.01533
Std Dev 0.9826

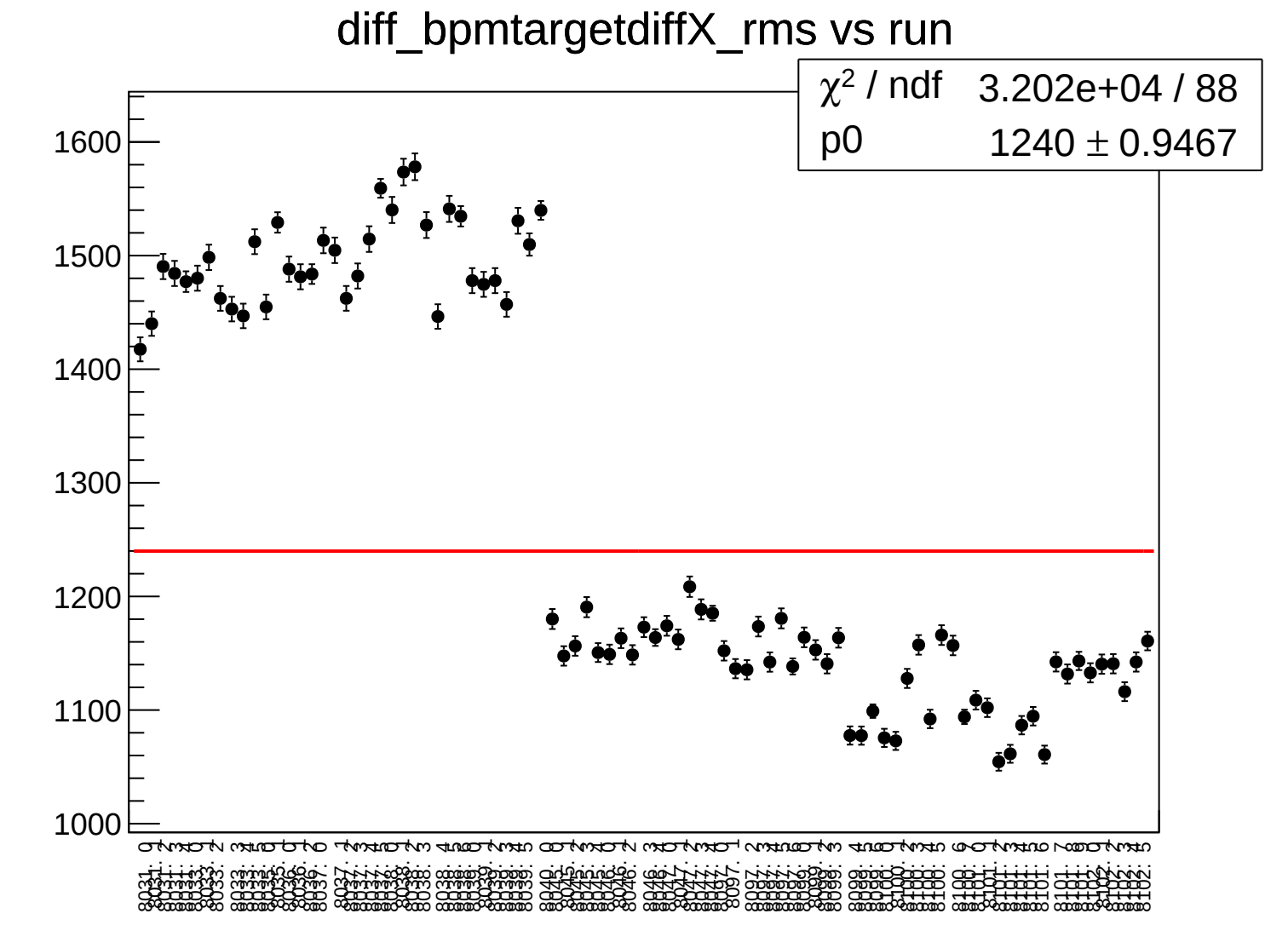

diff_bpm4aediffY_rms vs run
χ² / ndf 2.415e+04 / 88
p0 2261 ± 1.722
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600

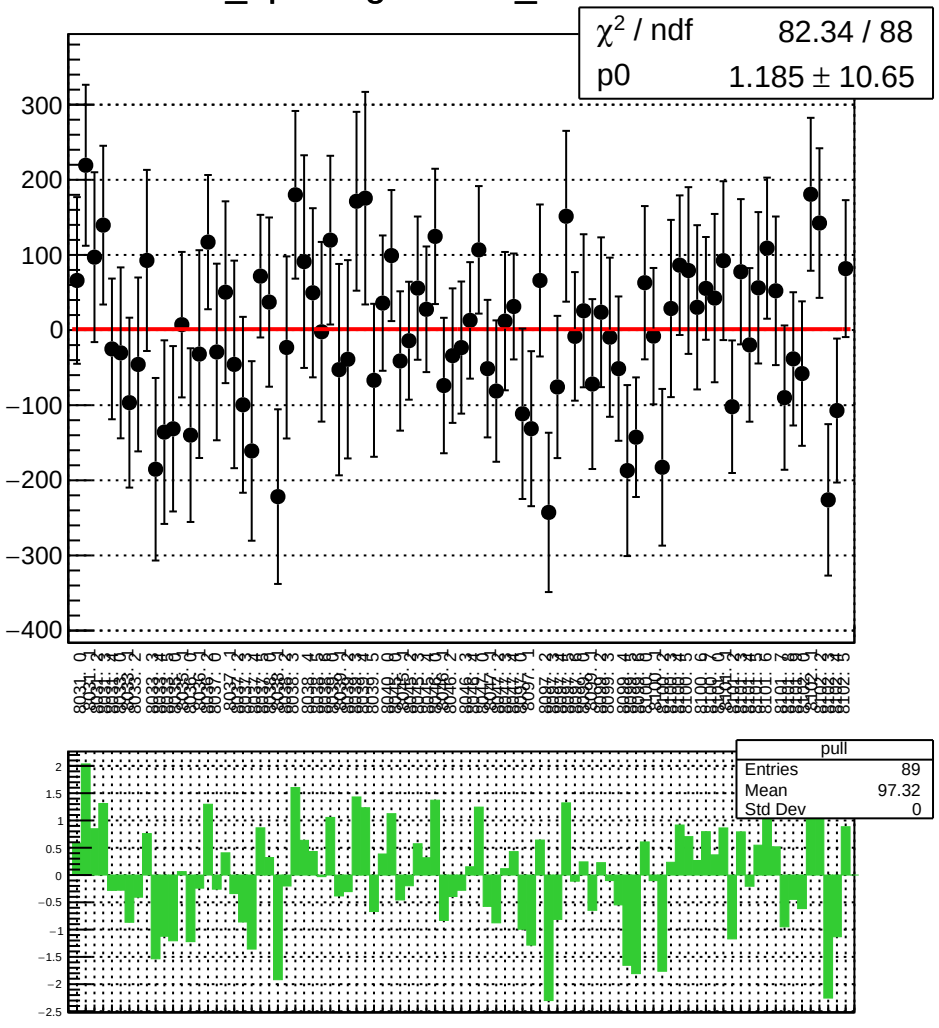

diff_bpmtargetsumX_mean vs run
χ² / ndf 78.61 / 88
p0 −28.84 ± 28.11
1000
500
0
−500
−1000
pull
Entries 89
Mean −185.7
Std Dev 0
2
1
0
−1
−2
−3

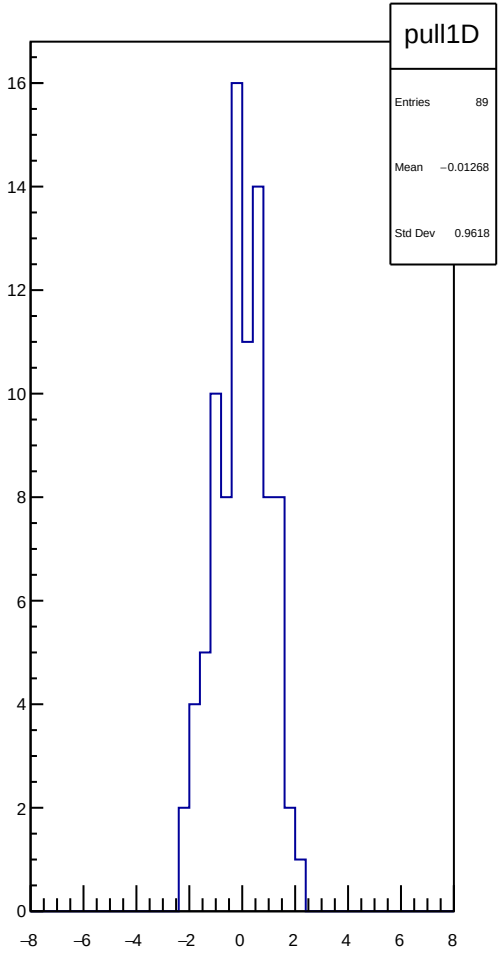

pull1D
Entries 89
Mean −0.007852
Std Dev 0.9398
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

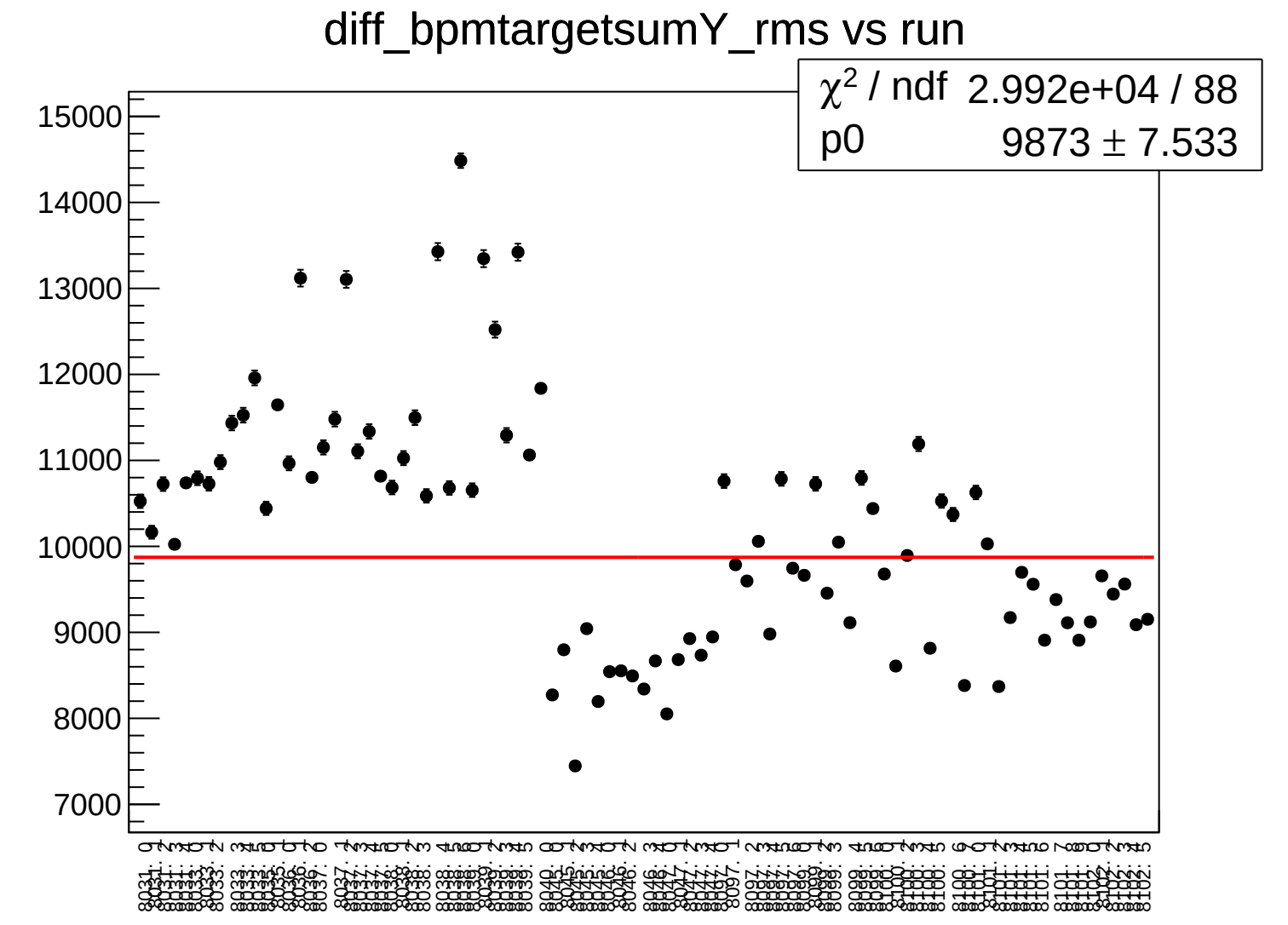

diff_bpmtargetsumX_rms vs run
χ² / ndf 2482 / 88
p0 2.626e+04 ± 19.88
29000
28000
27000
26000
25000
24000

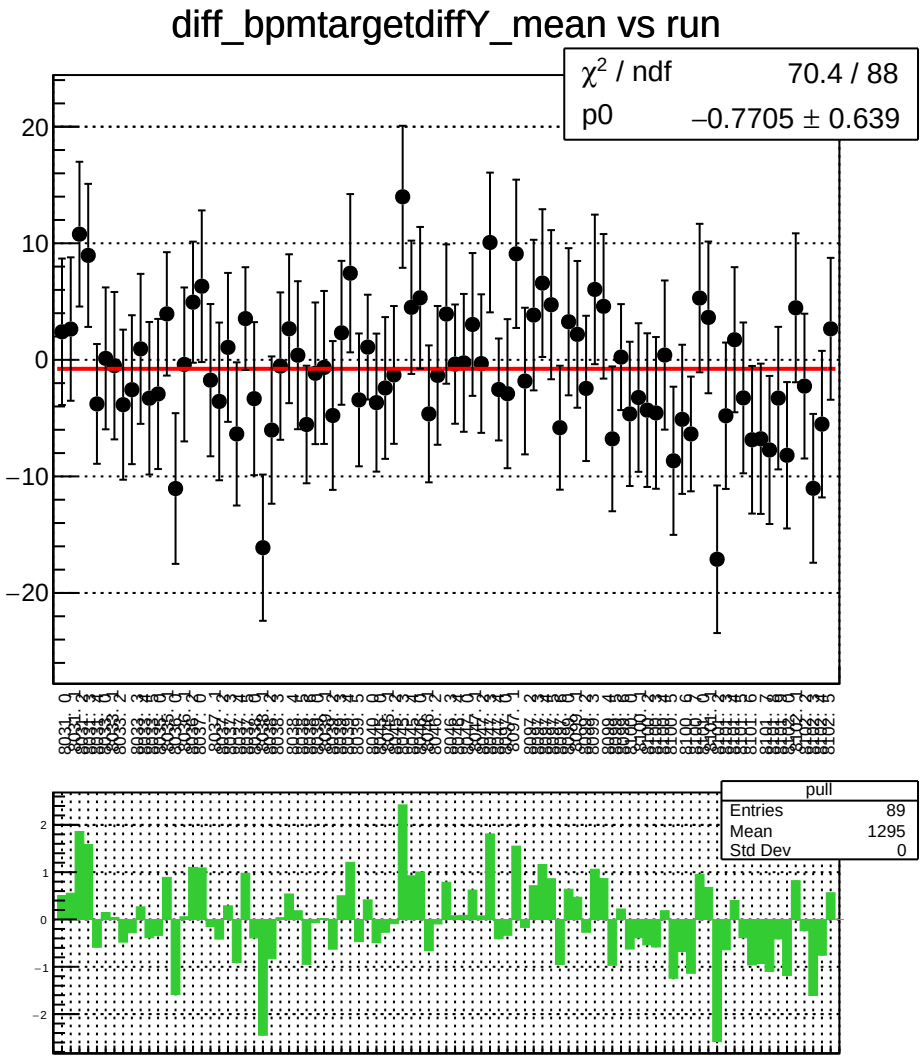

diff_bpmtargetdiffX_mean vs run
χ² / ndf 93.99 / 88
p0 −0.2965 ± 1.339
pull
Entries 89
Mean −47.83
Std Dev 0
pull1D
Entries 89
Mean 0.01239
Std Dev 1.028

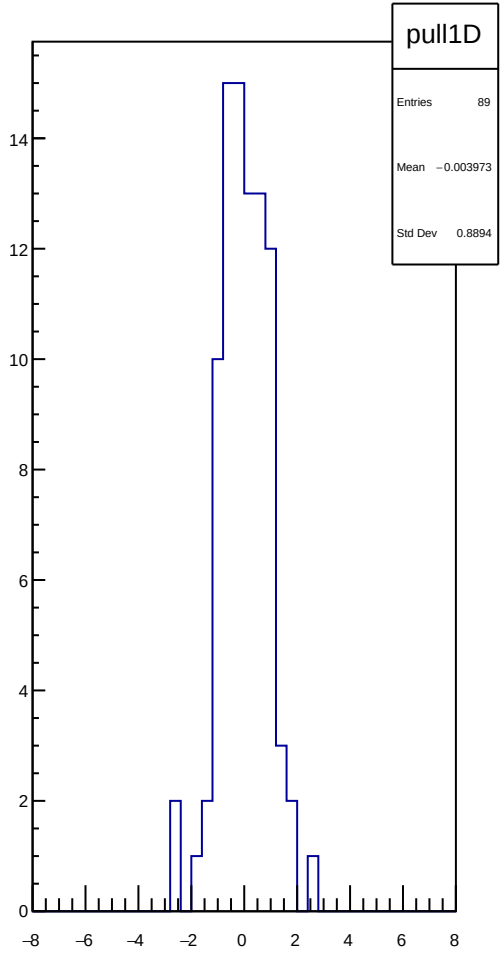

diff_bpmtargetdiffX_rms vs run
χ² / ndf 3.202e+04 / 88
p0 1240 ± 0.9467
1600
1500
1400
1300
1200
1100
1000

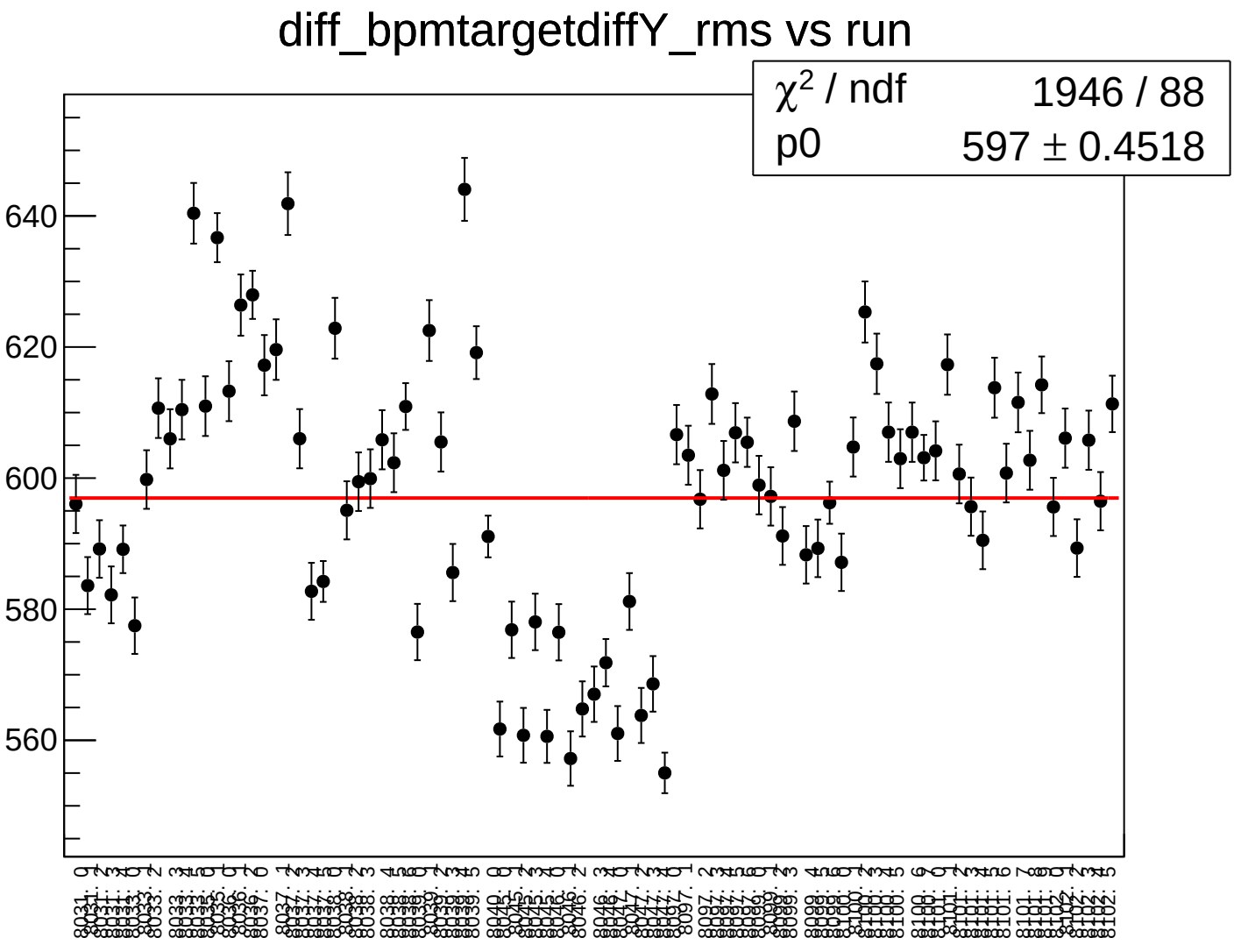

diff_bpmtargetsumY_mean vs run
χ² / ndf 82.34 / 88
p0 1.185 ± 10.65
pull
Entries 89
Mean 97.32
Std Dev 0

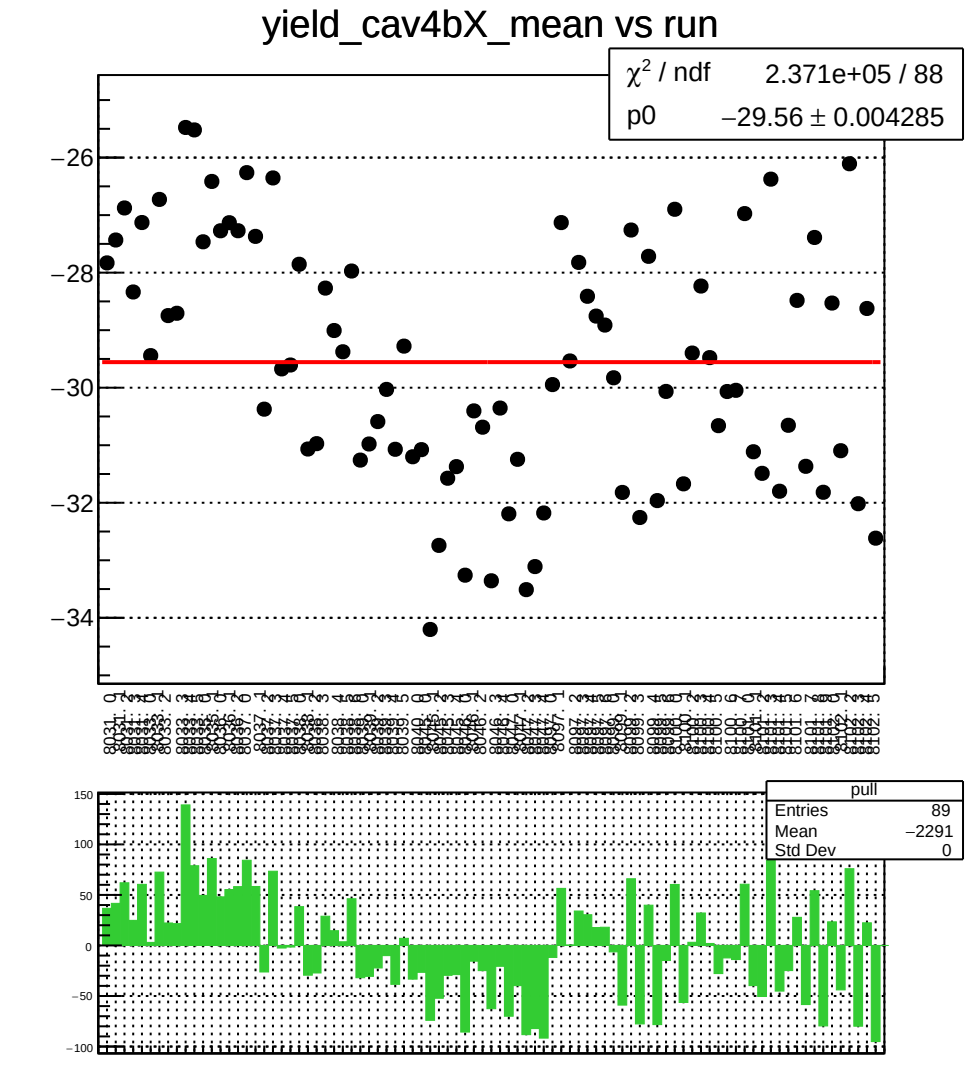

pull1D
Entries 89
Mean −0.01268
Std Dev 0.9618

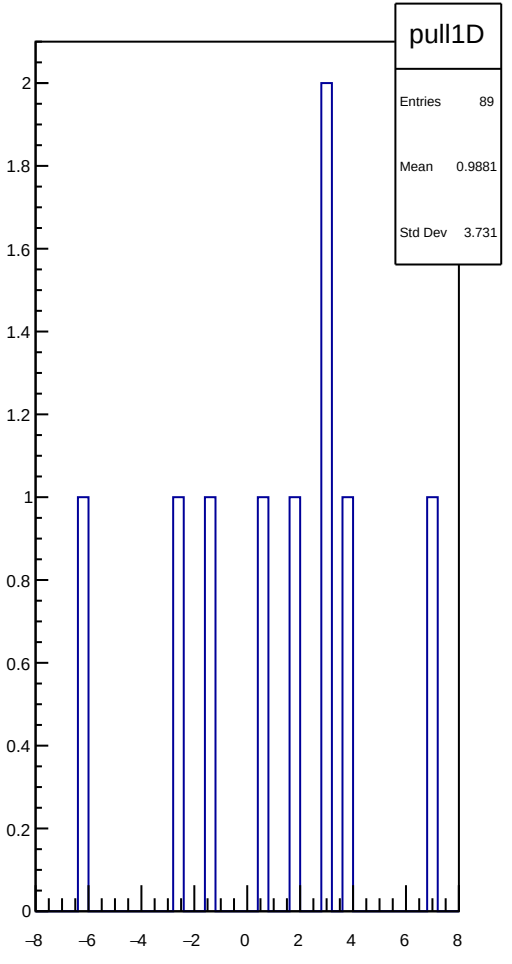

diff_bpmtargetsumY_rms vs run
χ² / ndf 2.992e+04 / 88
p0 9873 ± 7.533
15000
14000
13000
12000
11000
10000
9000
8000
7000

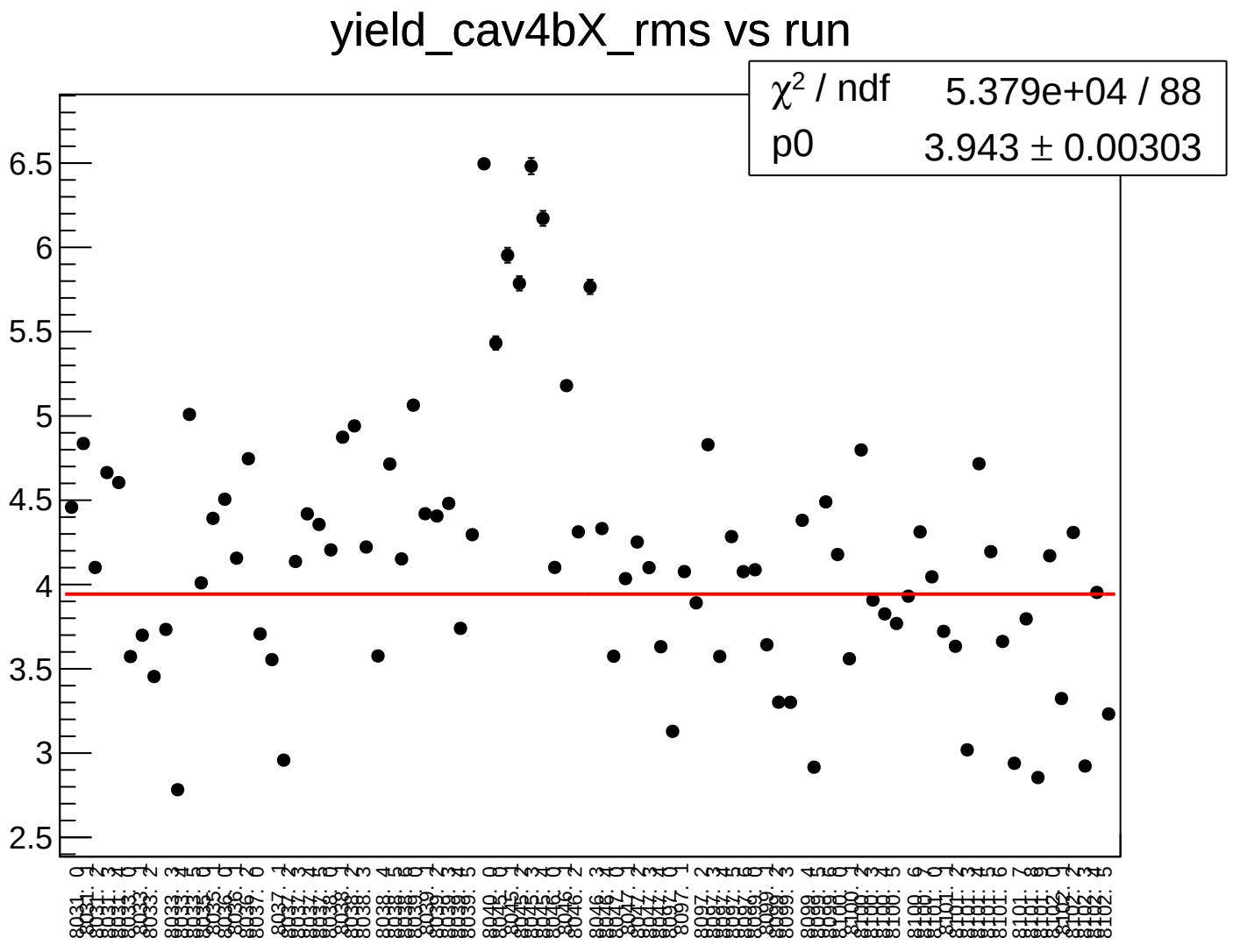

diff_bpmtargetdiffY_mean vs run
χ² / ndf 70.4 / 88
p0 −0.7705 ± 0.639
20
10
0
−10
−20
pull
Entries 89
Mean 1295
Std Dev 0
2
1
0
−1
−2

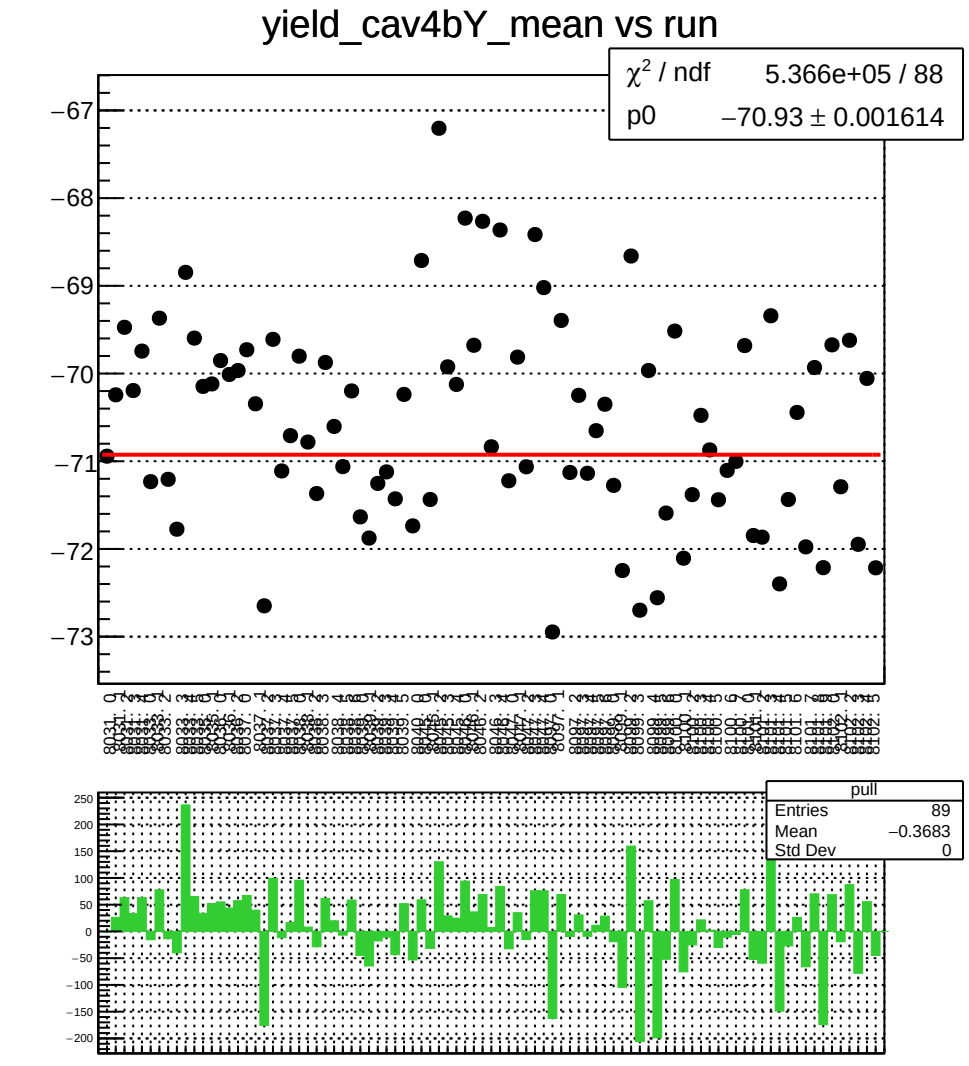

pull1D
Entries 89
Mean −0.003973
Std Dev 0.8894
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

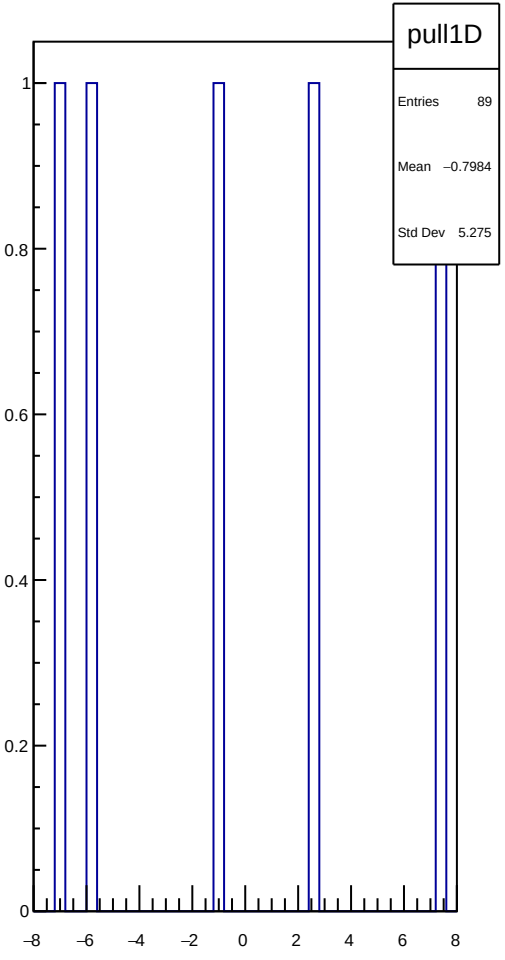

diff_bpmtargetdiffY_rms vs run
χ² / ndf 1946 / 88
p0 597 ± 0.4518
640
620
600
580
560

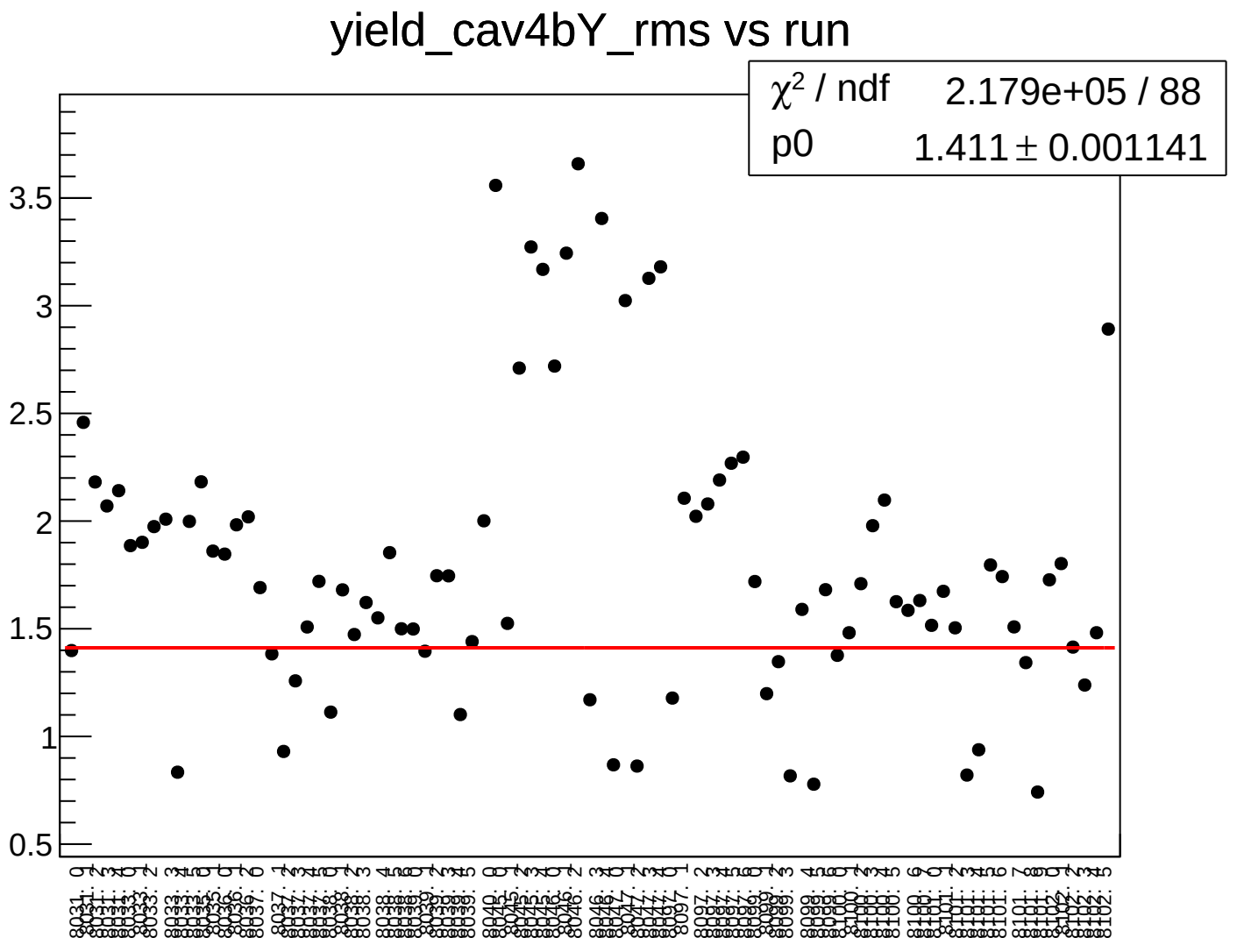

yield_cav4bX_mean vs run
χ² / ndf 2.371e+05 / 88
p0 −29.56 ± 0.004285
−26
−28
−30
−32
−34
pull
Entries 89
Mean −2291
Std Dev 0
150
100
50
0
−50
−100

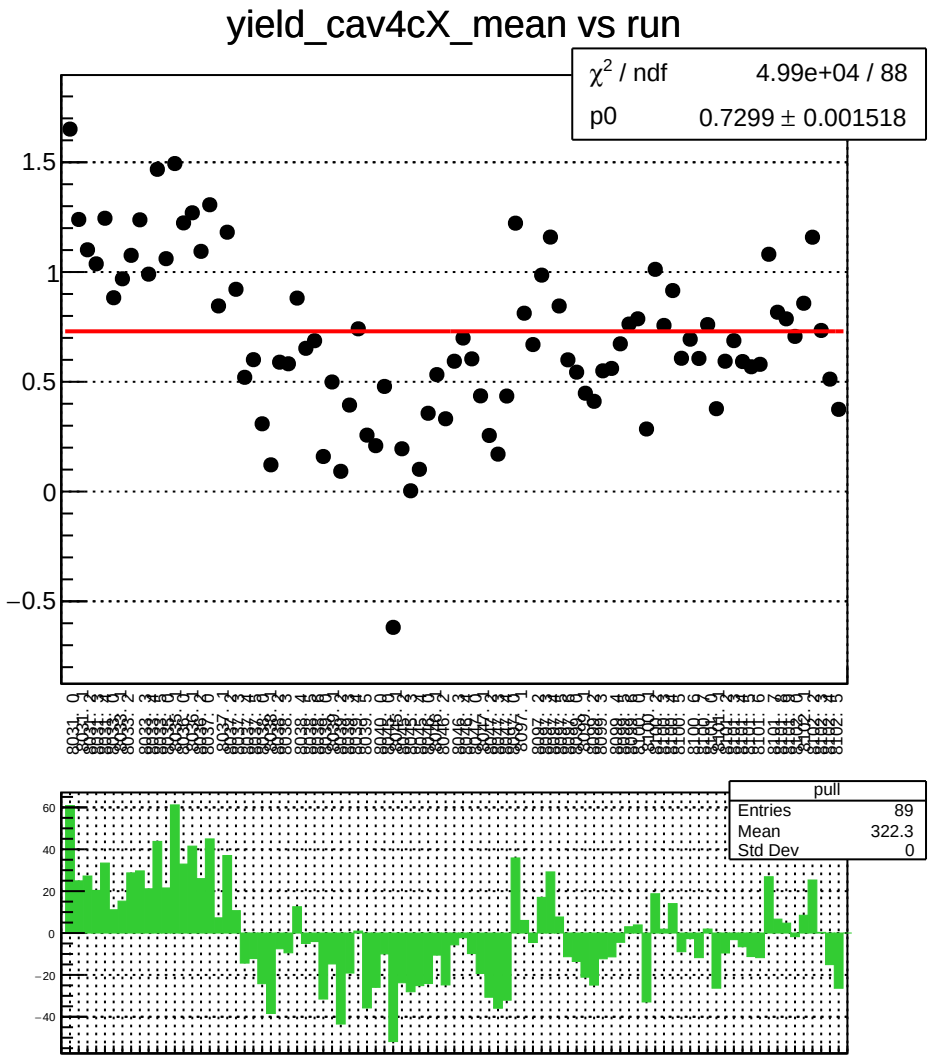

pull1D
Entries 89
Mean 0.9881
Std Dev 3.731
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

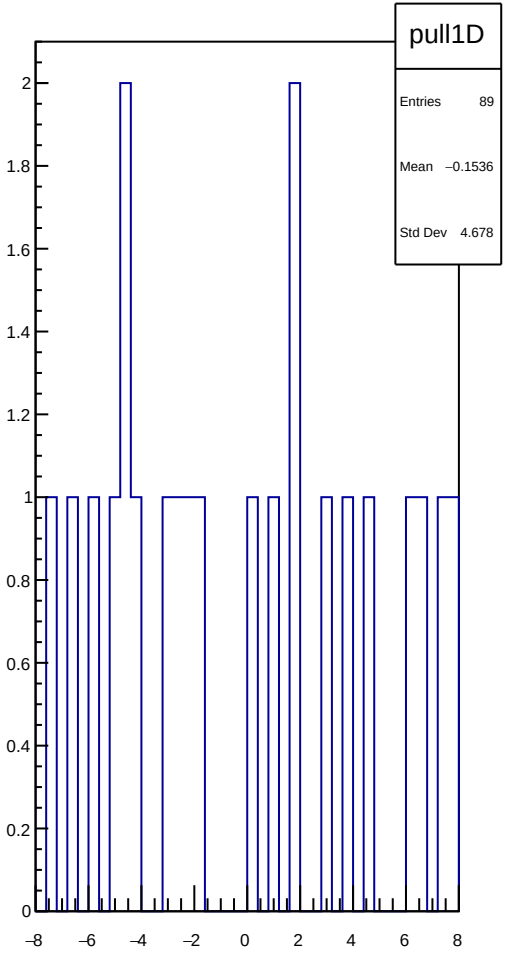

yield_cav4bX_rms vs run
χ² / ndf 5.379e+04 / 88
p0 3.943 ± 0.00303
6.5
6
5.5
5
4.5
4
3.5
3
2.5

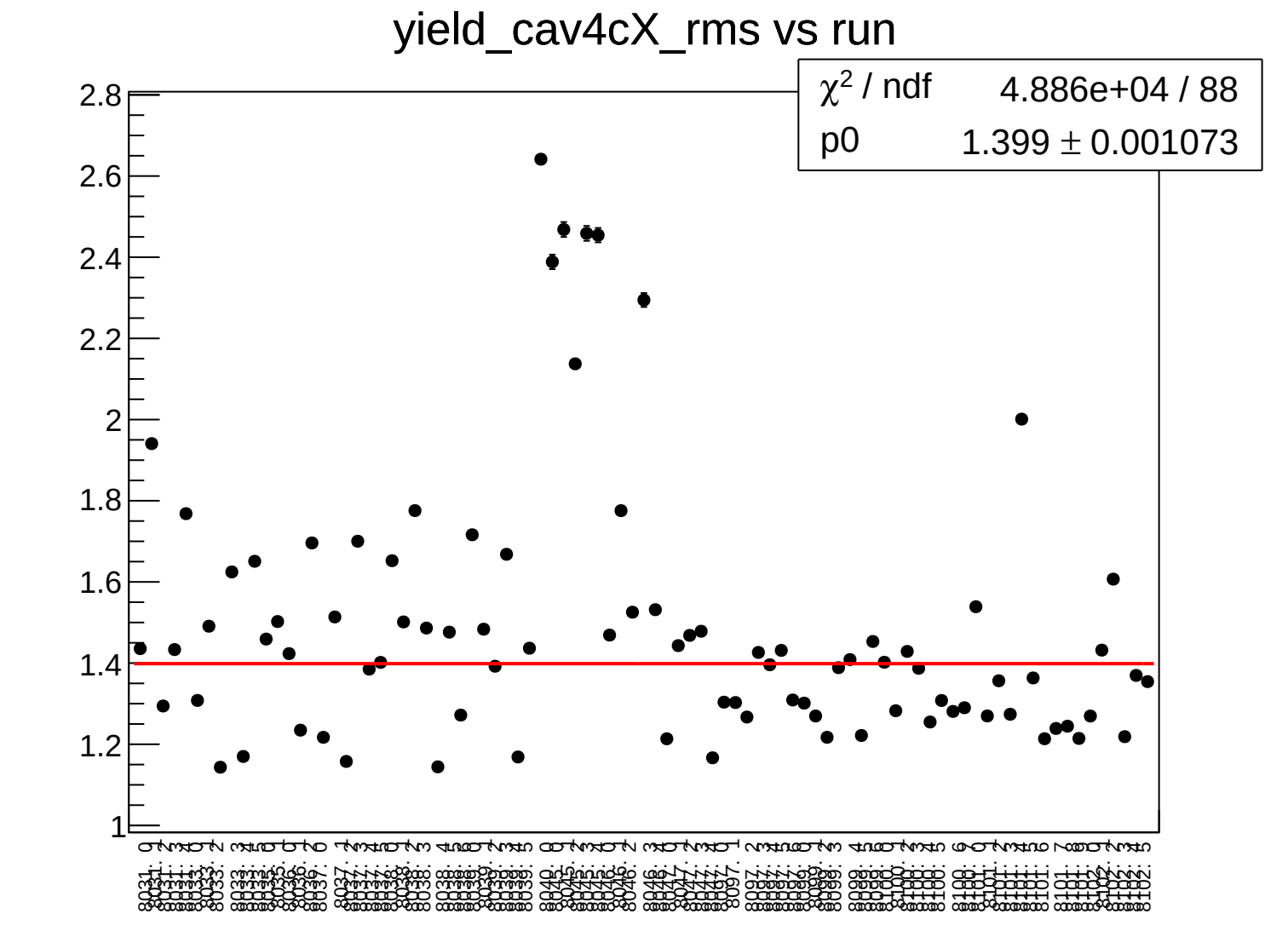

yield_cav4bY_mean vs run
χ² / ndf 5.366e+05 / 88
p0 −70.93 ± 0.001614
−67
−68
−69
−70
−71
−72
−73
pull
Entries 89
Mean −0.3683
Std Dev 0
250
200
150
100
50
0
−50
−100
−150
−200

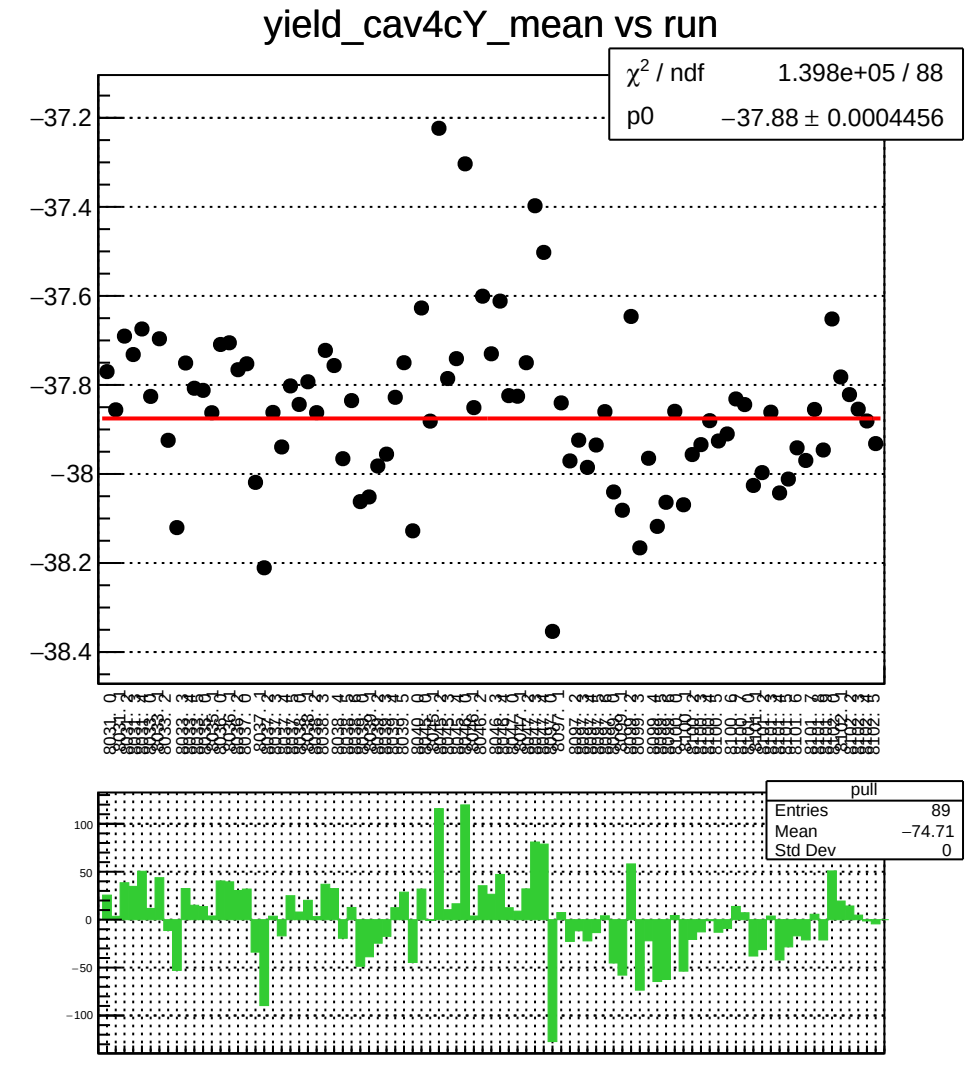

pull1D
Entries 89
Mean −0.7984
Std Dev 5.275
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

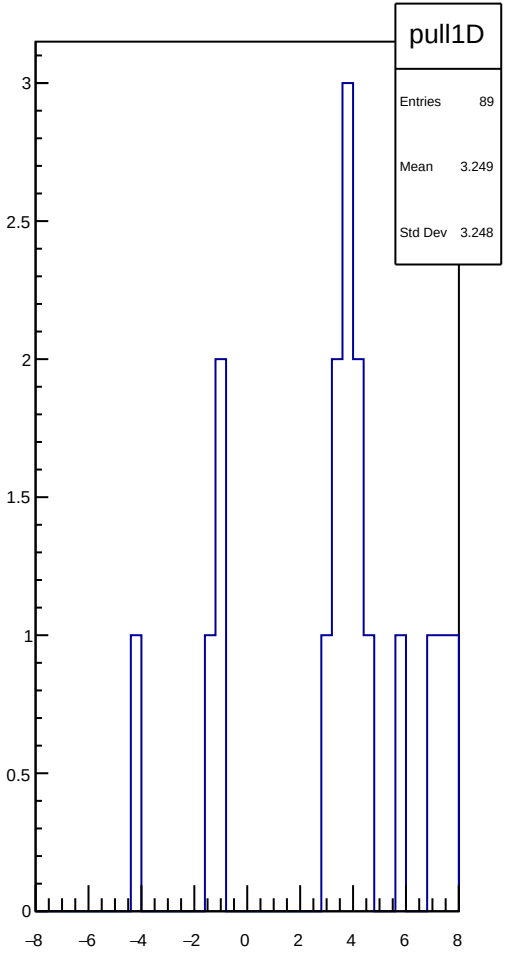

yield_cav4bY_rms vs run
χ² / ndf 2.179e+05 / 88
p0 1.411 ± 0.001141
3.5
3
2.5
2
1.5
1
0.5

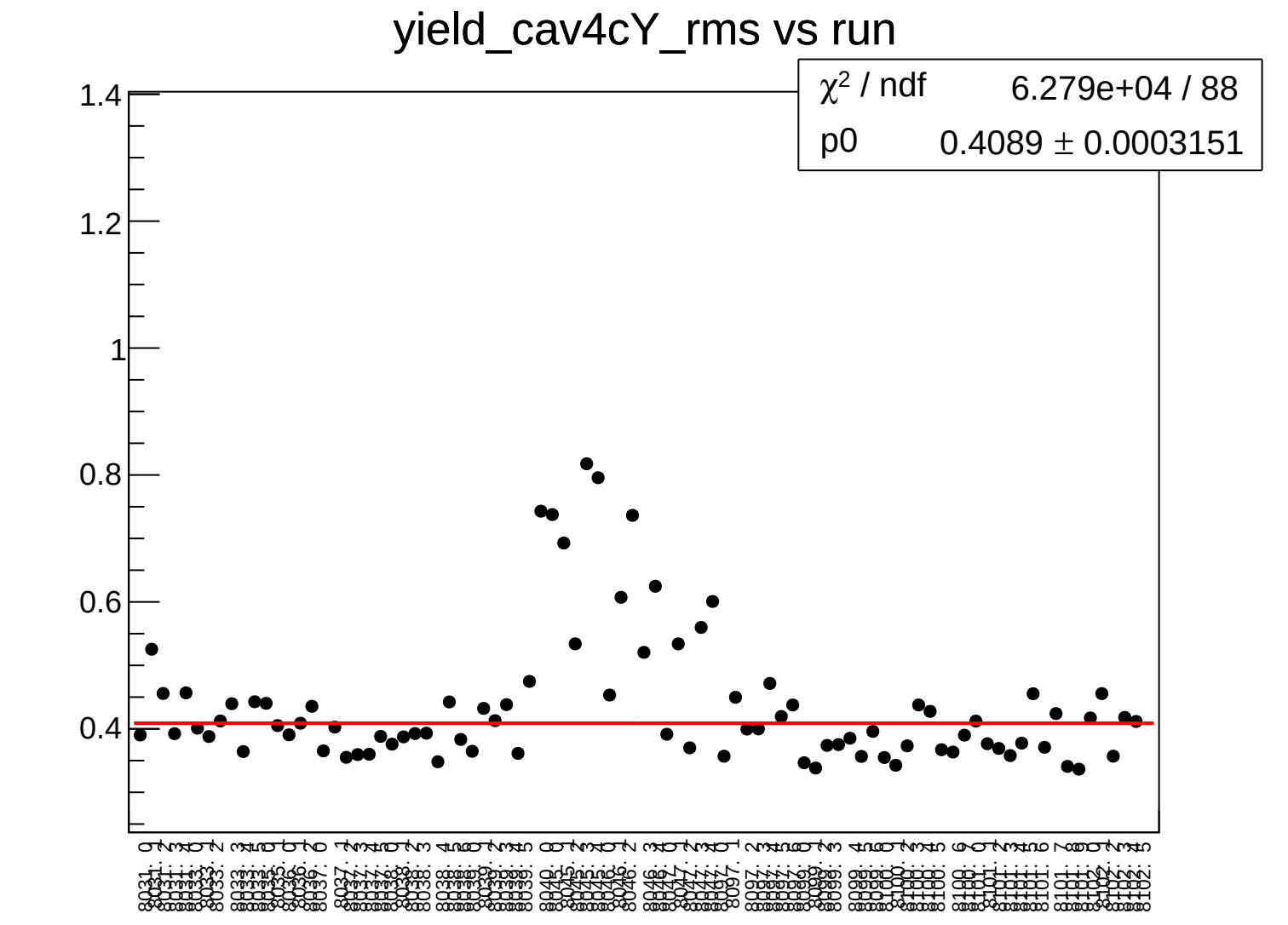

yield_cav4cX_mean vs run
χ² / ndf 4.99e+04 / 88
p0 0.7299 ± 0.001518
pull
Entries 89
Mean 322.3
Std Dev 0

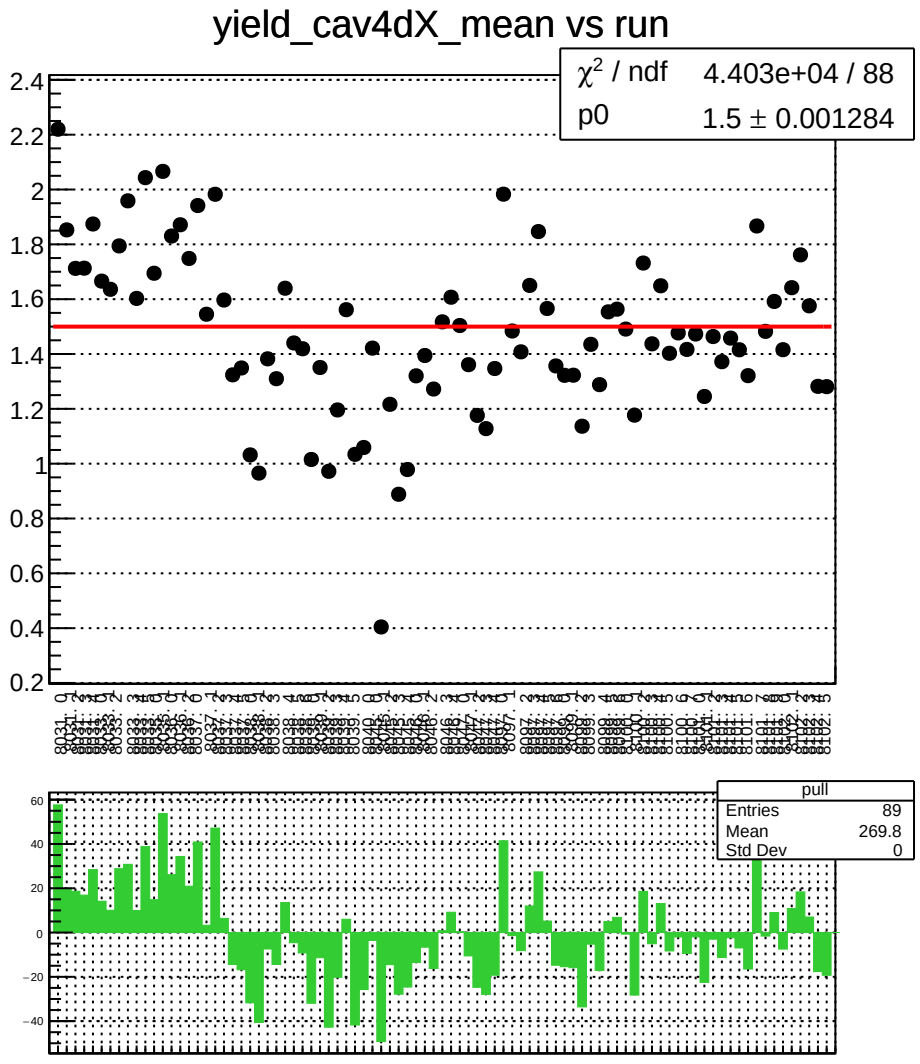

pull1D
Entries 89
Mean −0.1536
Std Dev 4.678

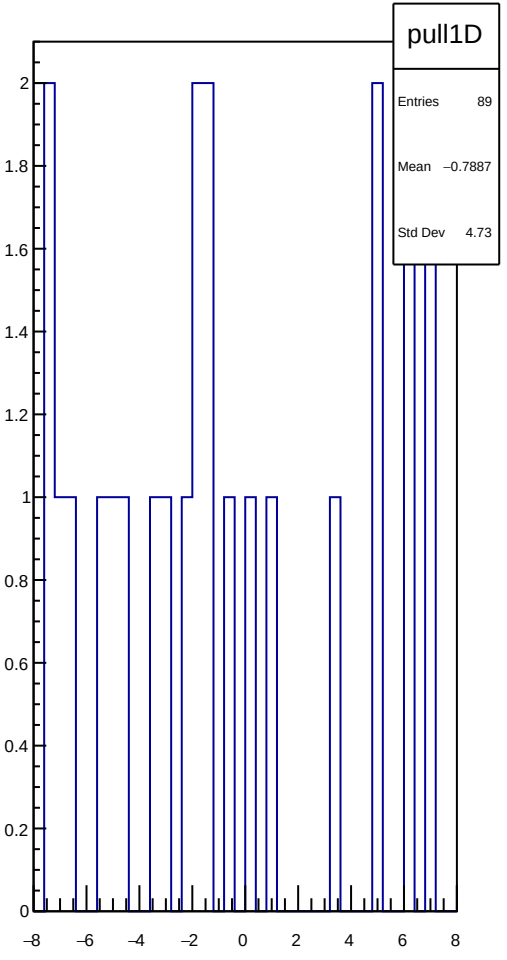

yield_cav4cX_rms vs run
$\chi^2$ / ndf 4.886e+04 / 88
p0 1.399 ± 0.001073
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
1

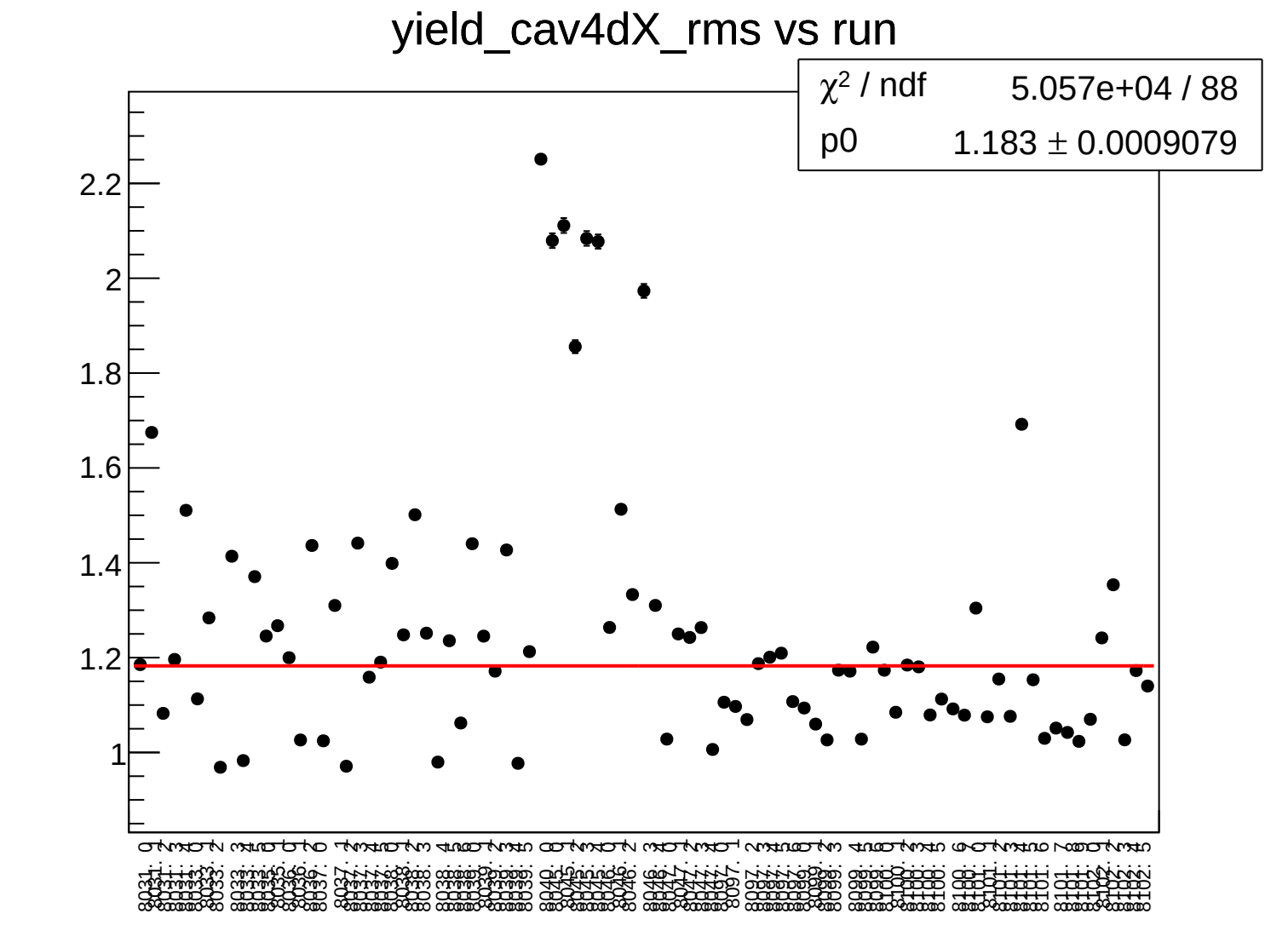

yield_cav4cY_mean vs run
χ² / ndf 1.398e+05 / 88
p0 −37.88 ± 0.0004456
−37.2
−37.4
−37.6
−37.8
−38
−38.2
−38.4
pull
Entries 89
Mean −74.71
Std Dev 0
100
50
0
−50
−100

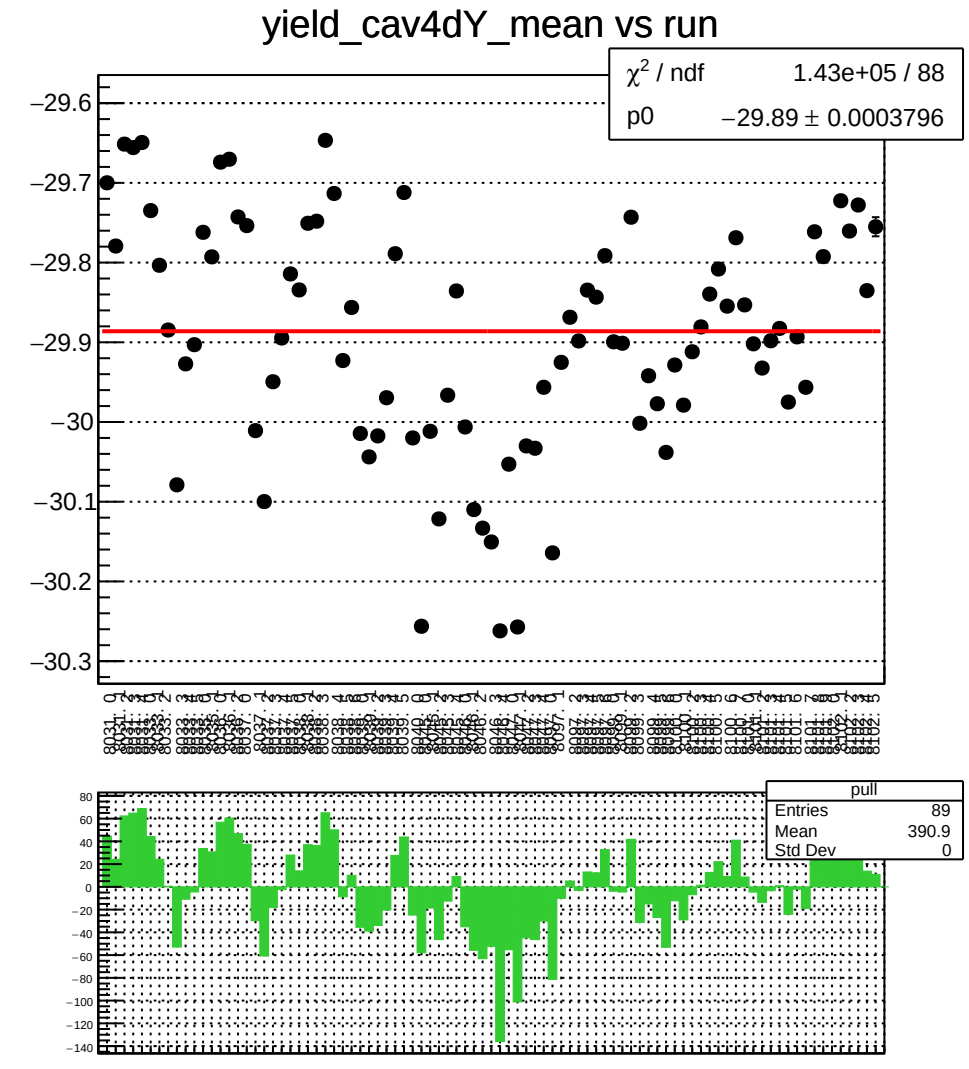

pull1D
Entries 89
Mean 3.249
Std Dev 3.248
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

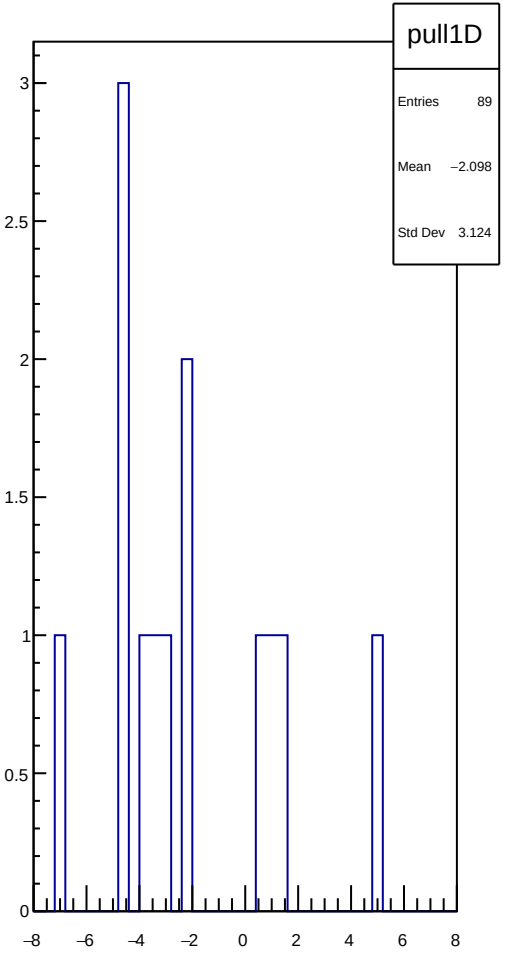

yield_cav4cY_rms vs run
χ² / ndf 6.279e+04 / 88
p0 0.4089 ± 0.0003151
1.4
1.2
1
0.8
0.6
0.4

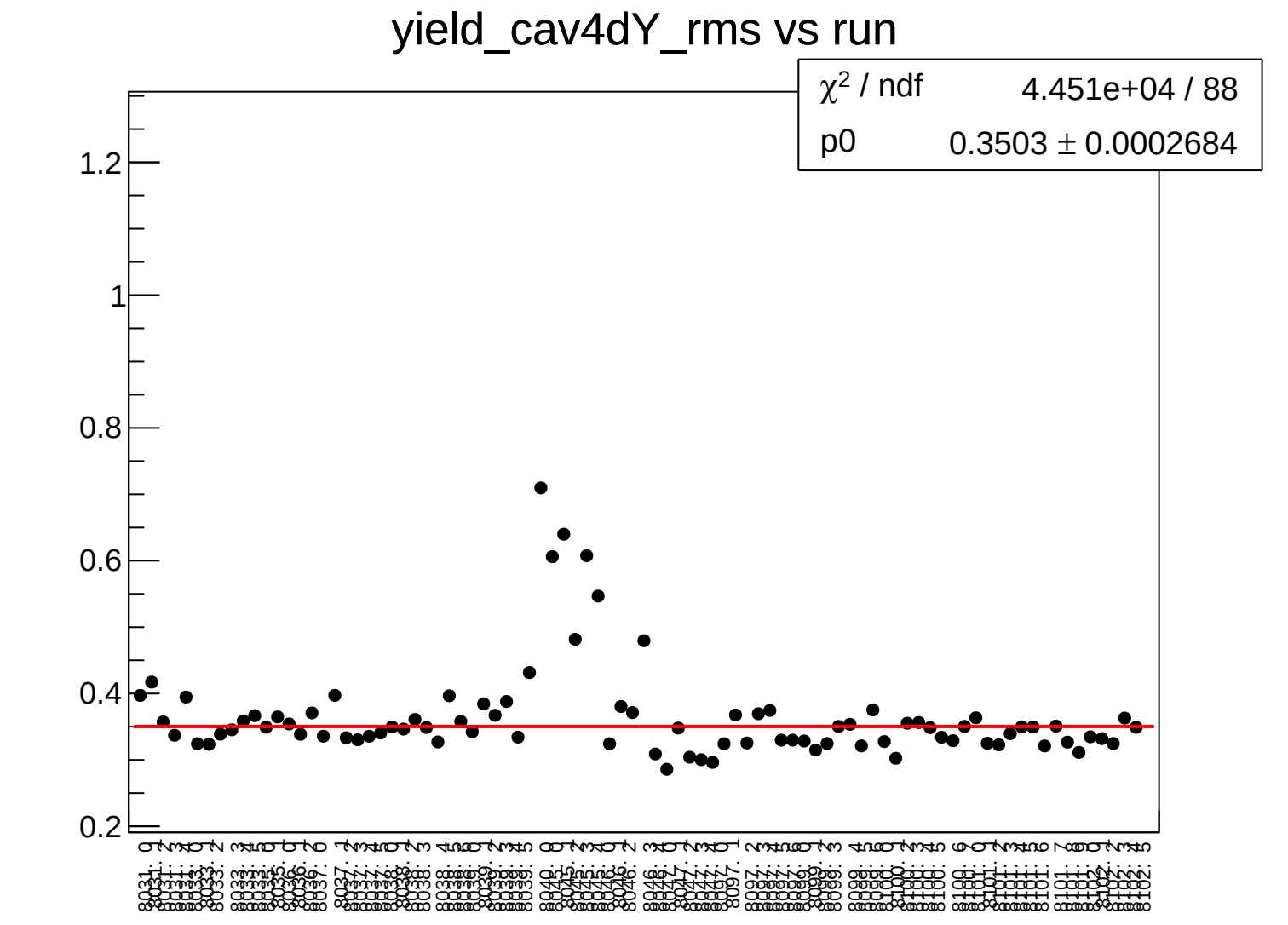

yield_cav4dX_mean vs run
χ² / ndf 4.403e+04 / 88
p0 1.5 ± 0.001284
pull
Entries 89
Mean 269.8
Std Dev 0

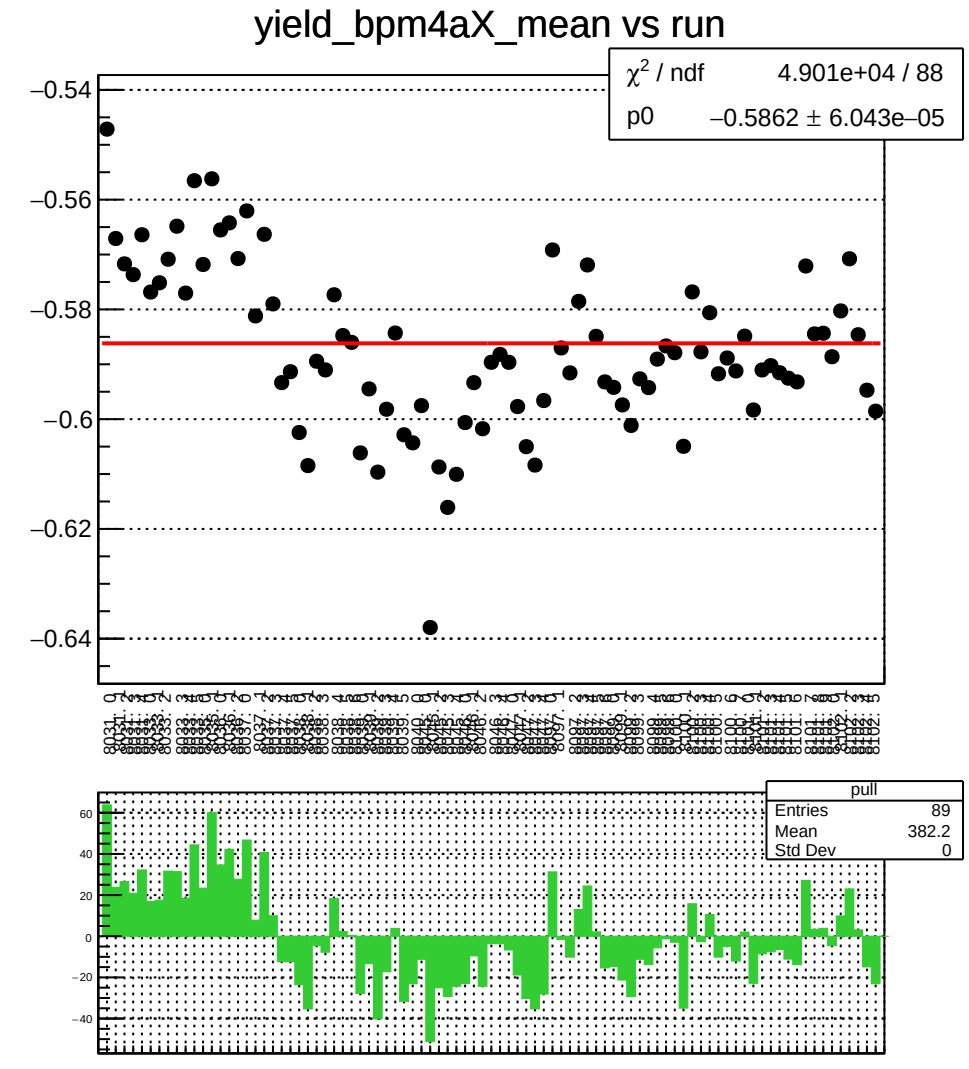

pull1D
Entries 89
Mean −0.7887
Std Dev 4.73

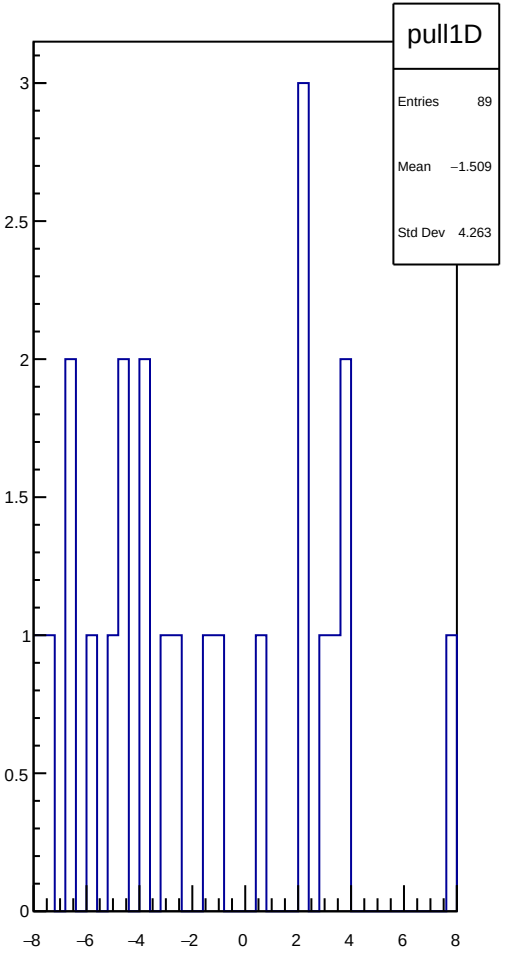

yield_cav4dX_rms vs run
χ² / ndf 5.057e+04 / 88
p0 1.183 ± 0.0009079
2.2
2
1.8
1.6
1.4
1.2
1

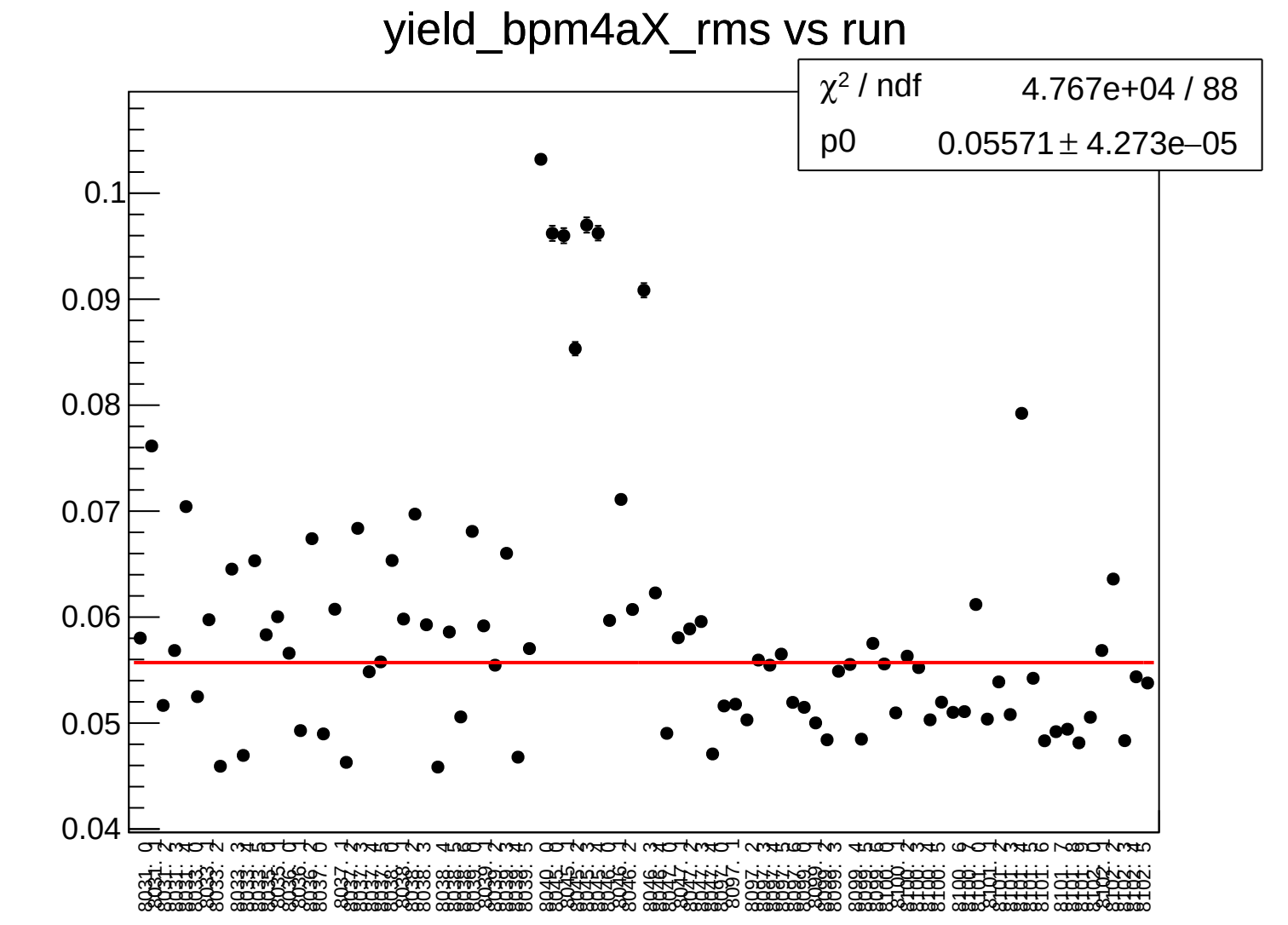

yield_cav4dY_mean vs run
χ² / ndf 1.43e+05 / 88
p0 −29.89 ± 0.0003796
−29.6
−29.7
−29.8
−29.9
−30
−30.1
−30.2
−30.3
pull
Entries 89
Mean 390.9
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100
−120
−140

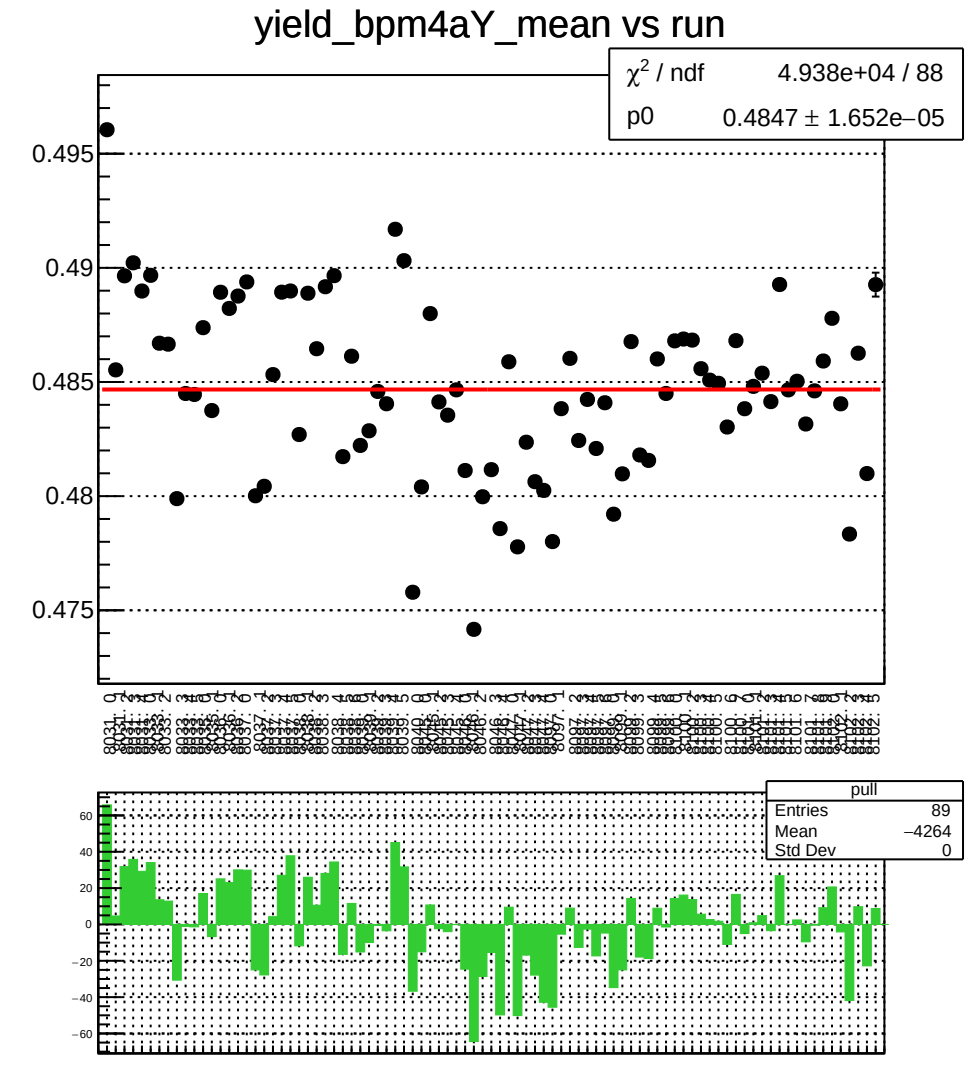

pull1D
Entries 89
Mean −2.098
Std Dev 3.124
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

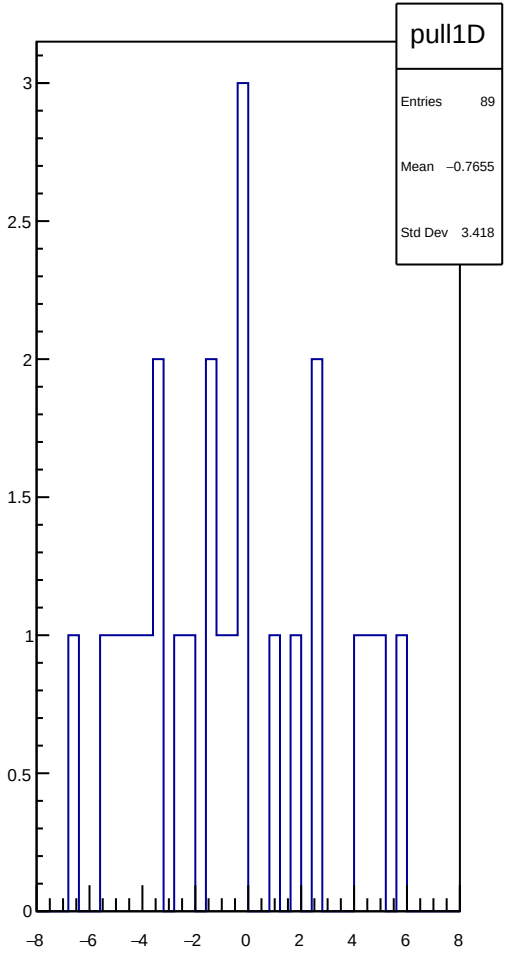

yield_cav4dY_rms vs run
χ² / ndf 4.451e+04 / 88
p0 0.3503 ± 0.0002684
1.2
1
0.8
0.6
0.4
0.2

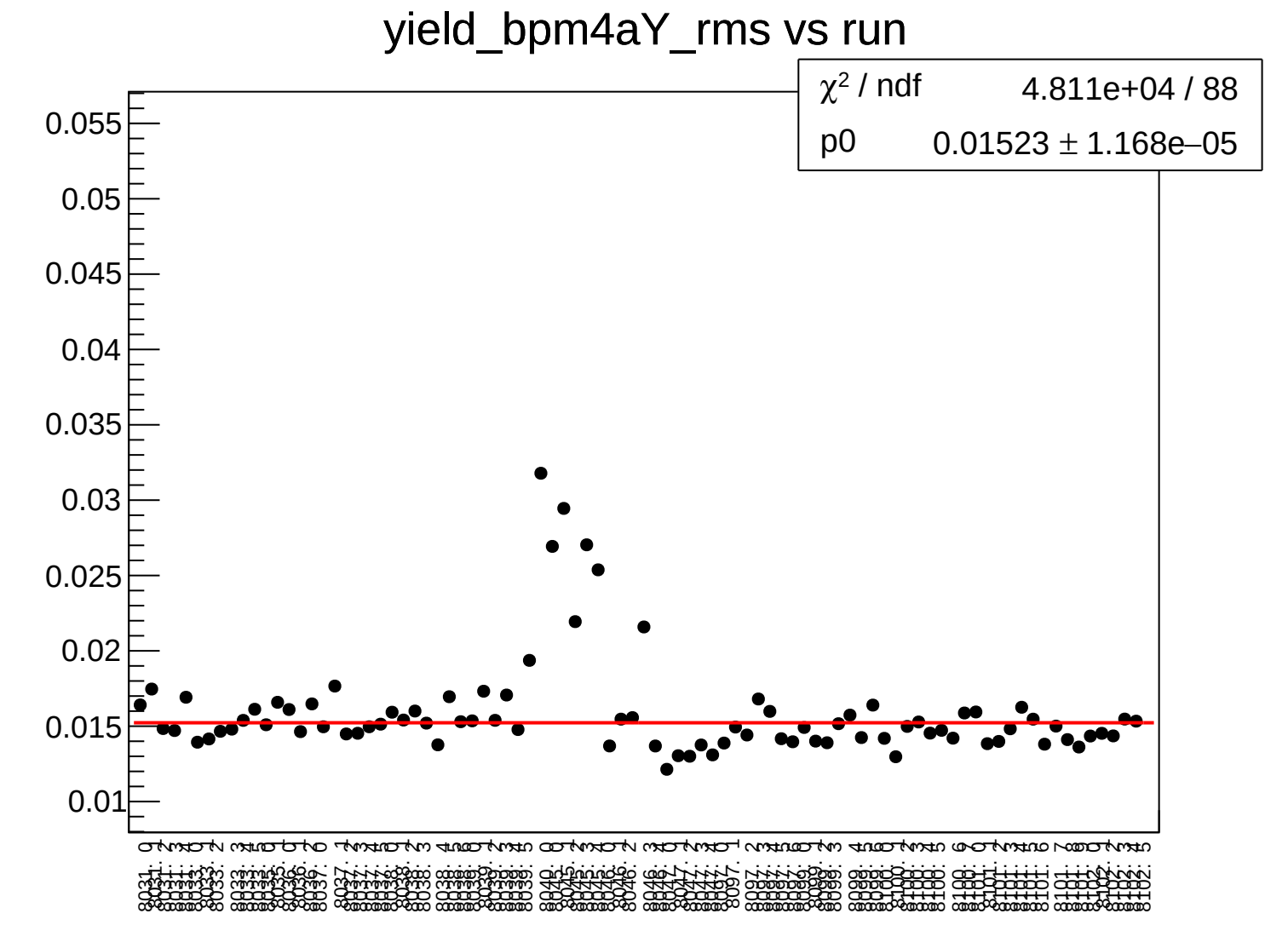

yield_bpm4aX_mean vs run
χ² / ndf 4.901e+04 / 88
p0 −0.5862 ± 6.043e−05
−0.54
−0.56
−0.58
−0.6
−0.62
−0.64
pull
Entries 89
Mean 382.2
Std Dev 0
60
40
20
0
−20
−40

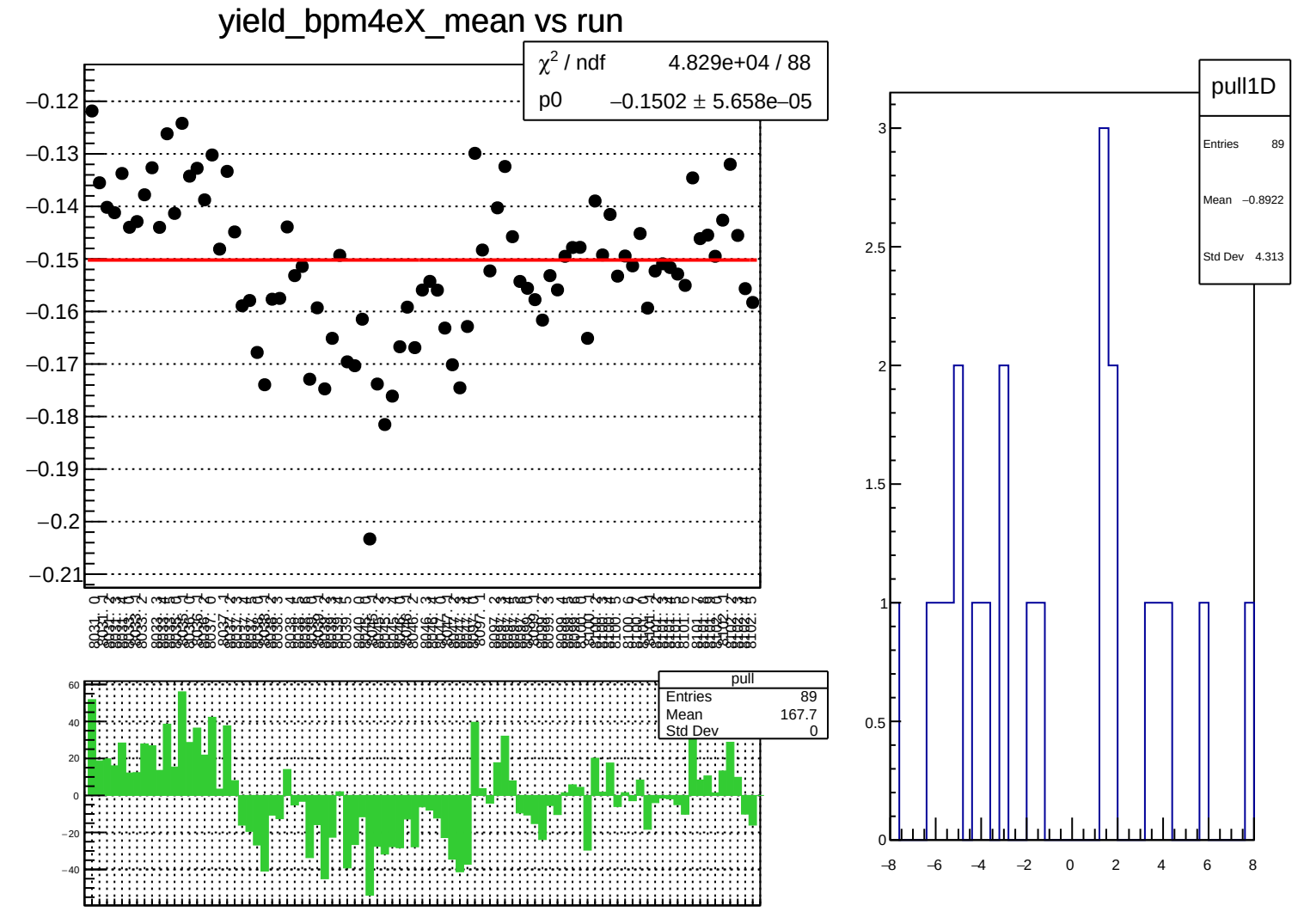

pull1D
Entries 89
Mean −1.509
Std Dev 4.263
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

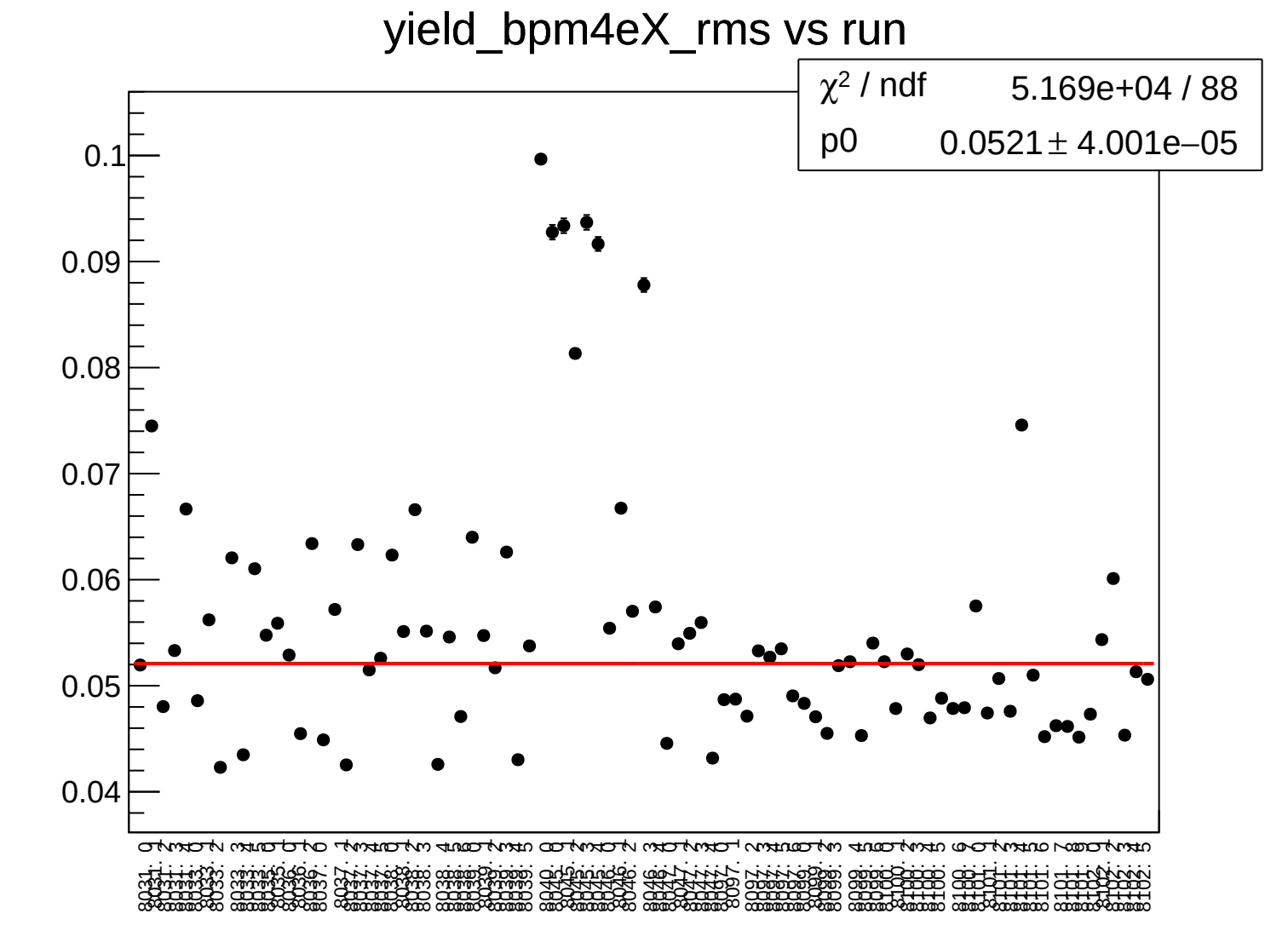

yield_bpm4aX_rms vs run
χ² / ndf 4.767e+04 / 88
p0 0.05571 ± 4.273e–05
0.1
0.09
0.08
0.07
0.06
0.05
0.04

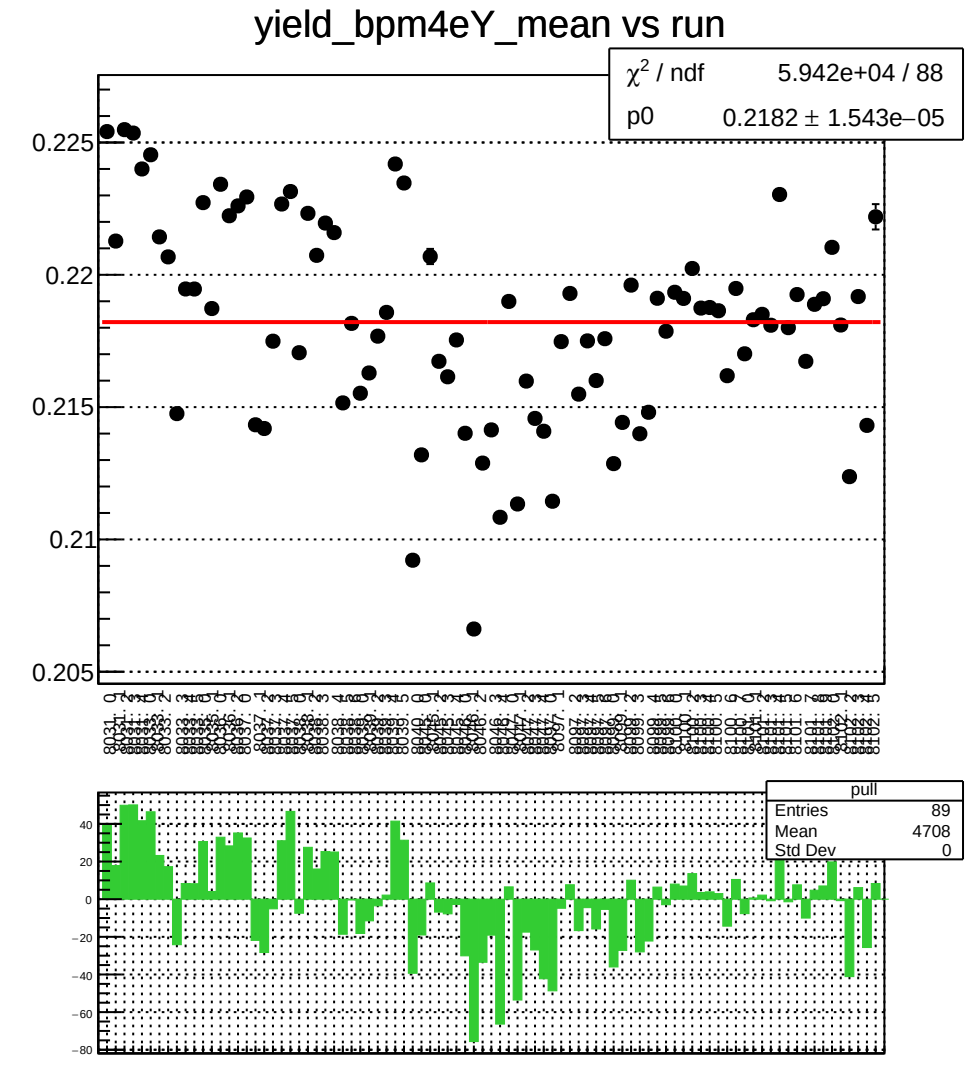

yield_bpm4aY_mean vs run
χ² / ndf 4.938e+04 / 88
p0 0.4847 ± 1.652e−05
0.495
0.49
0.485
0.48
0.475
pull
Entries 89
Mean −4264
Std Dev 0
60
40
20
0
−20
−40
−60

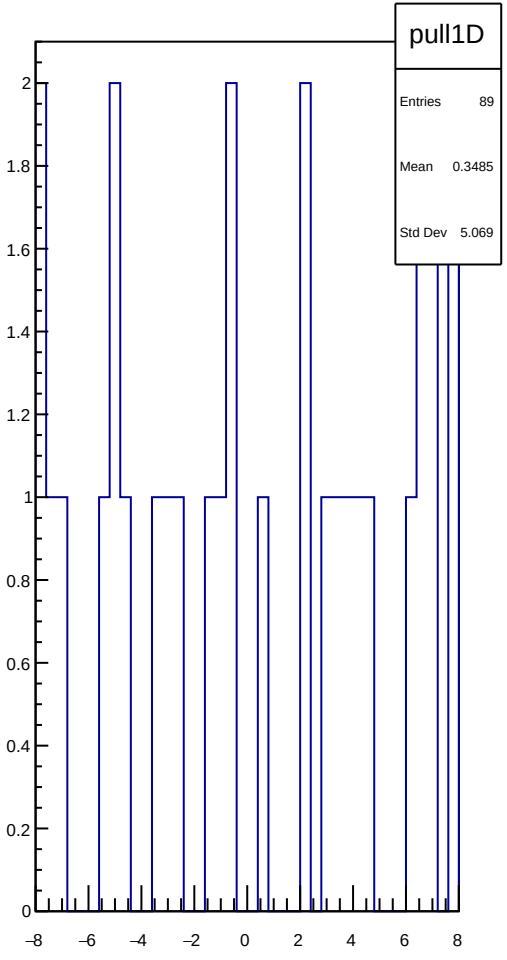

pull1D
Entries 89
Mean −0.7655
Std Dev 3.418
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

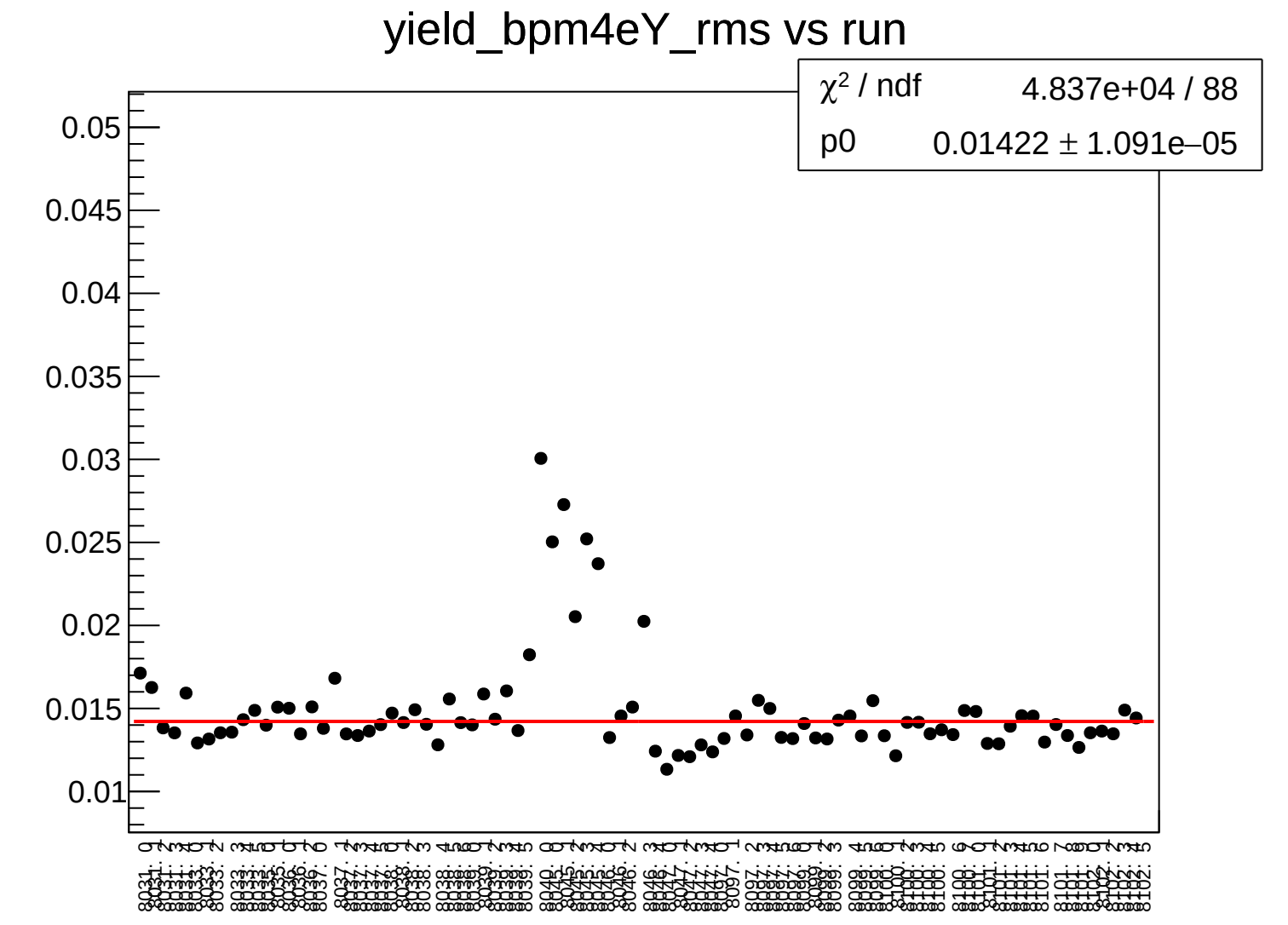

yield_bpm4aY_rms vs run
χ² / ndf 4.811e+04 / 88
p0 0.01523 ± 1.168e–05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

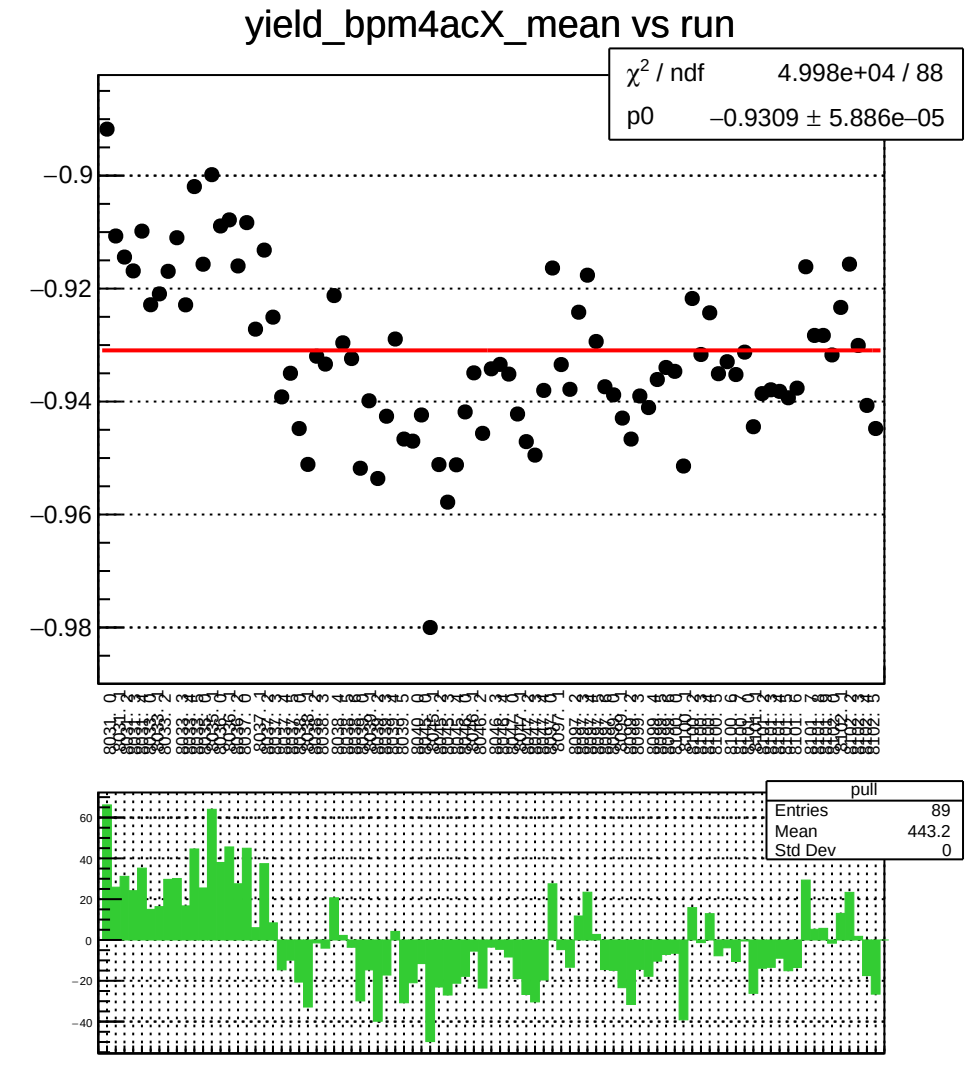

yield_bpm4eX_mean vs run
χ² / ndf 4.829e+04 / 88
p0 −0.1502 ± 5.658e−05
−0.12
−0.13
−0.14
−0.15
−0.16
−0.17
−0.18
−0.19
−0.2
−0.21
pull
Entries 89
Mean 167.7
Std Dev 0
60
40
20
0
−20
−40
pull1D
Entries 89
Mean −0.8922
Std Dev 4.313
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

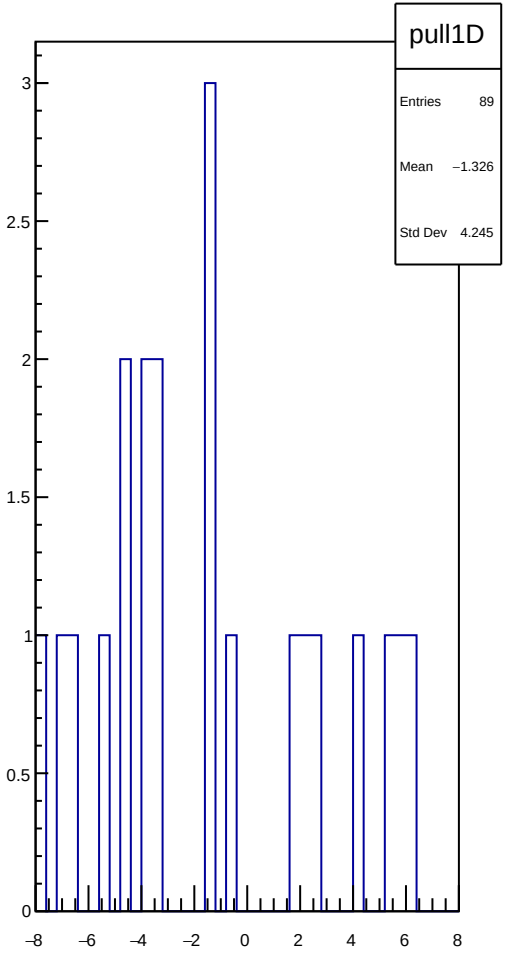

yield_bpm4eX_rms vs run
χ² / ndf 5.169e+04 / 88
p0 0.0521 ± 4.001e−05
0.1
0.09
0.08
0.07
0.06
0.05
0.04

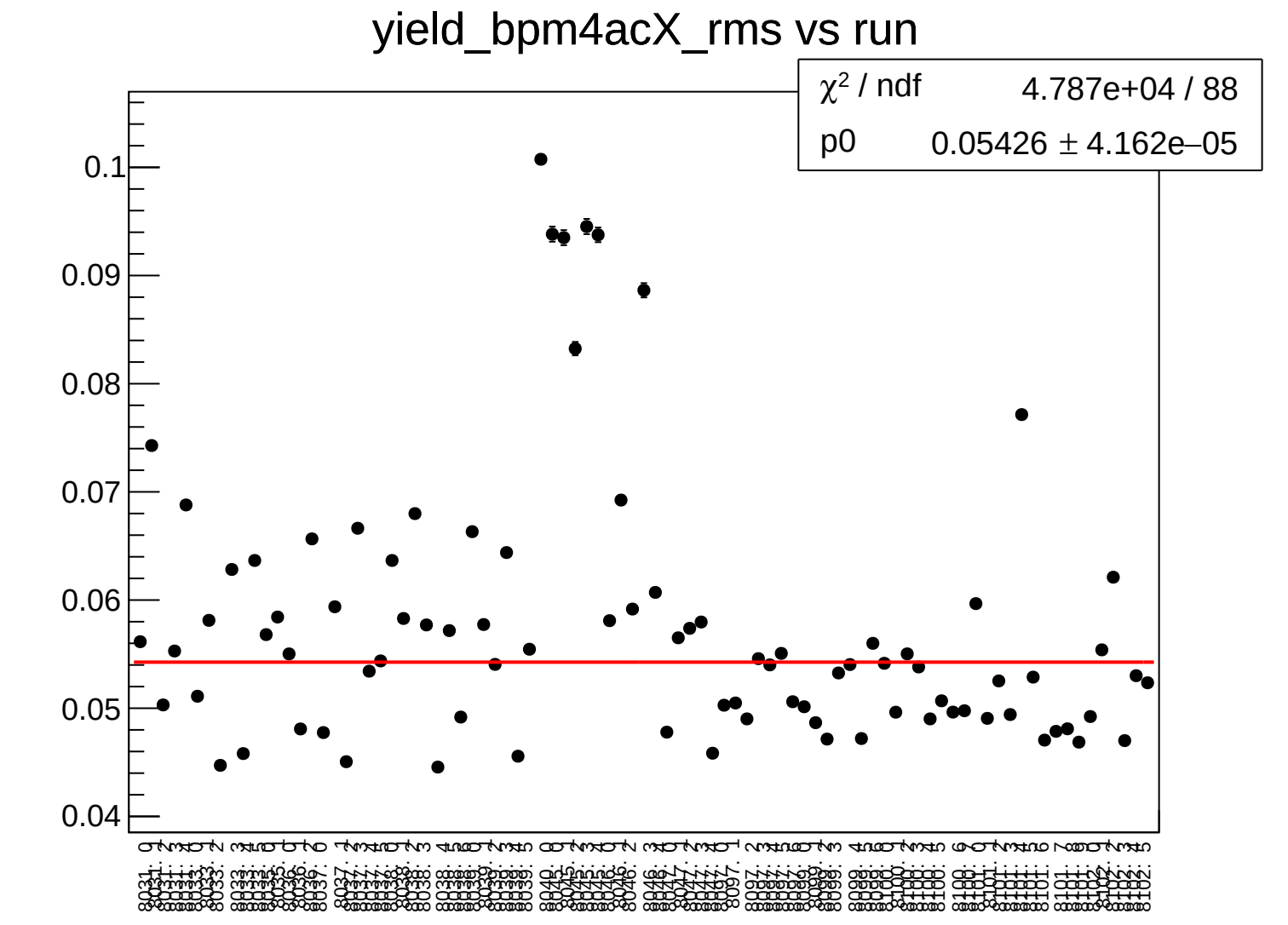

yield_bpm4eY_mean vs run
χ² / ndf 5.942e+04 / 88
p0 0.2182 ± 1.543e−05
0.225
0.22
0.215
0.21
0.205
pull
Entries 89
Mean 4708
Std Dev 0
40
20
0
−20
−40
−60
−80

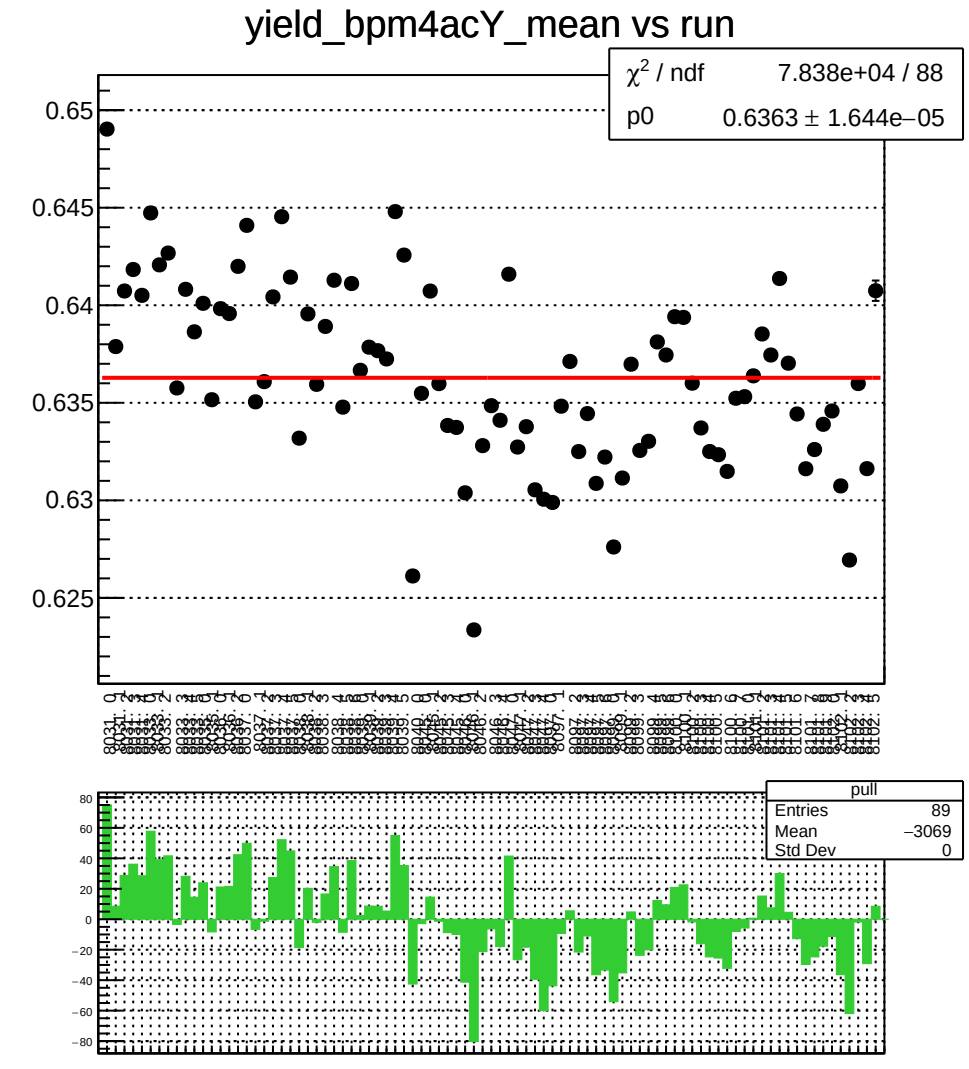

pull1D
Entries 89
Mean 0.3485
Std Dev 5.069
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

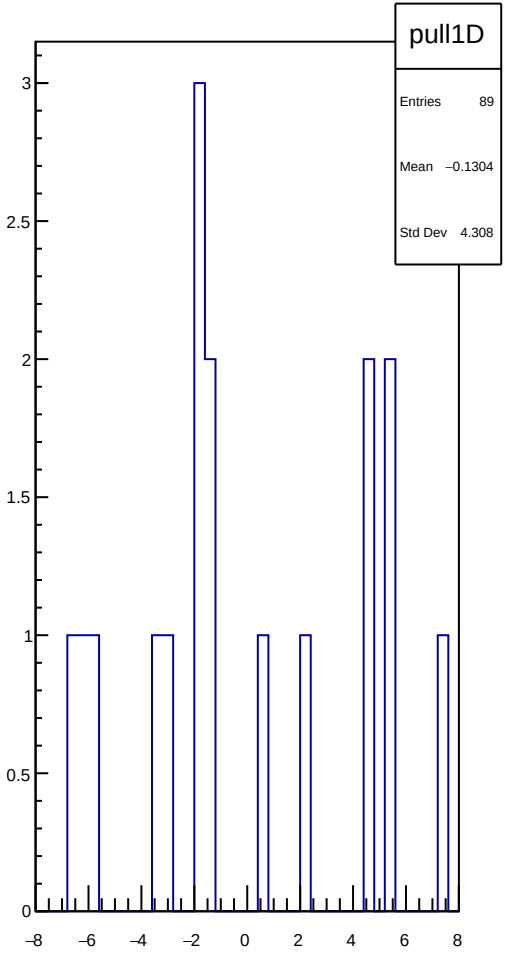

yield_bpm4eY_rms vs run
χ² / ndf 4.837e+04 / 88
p0 0.01422 ± 1.091e–05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

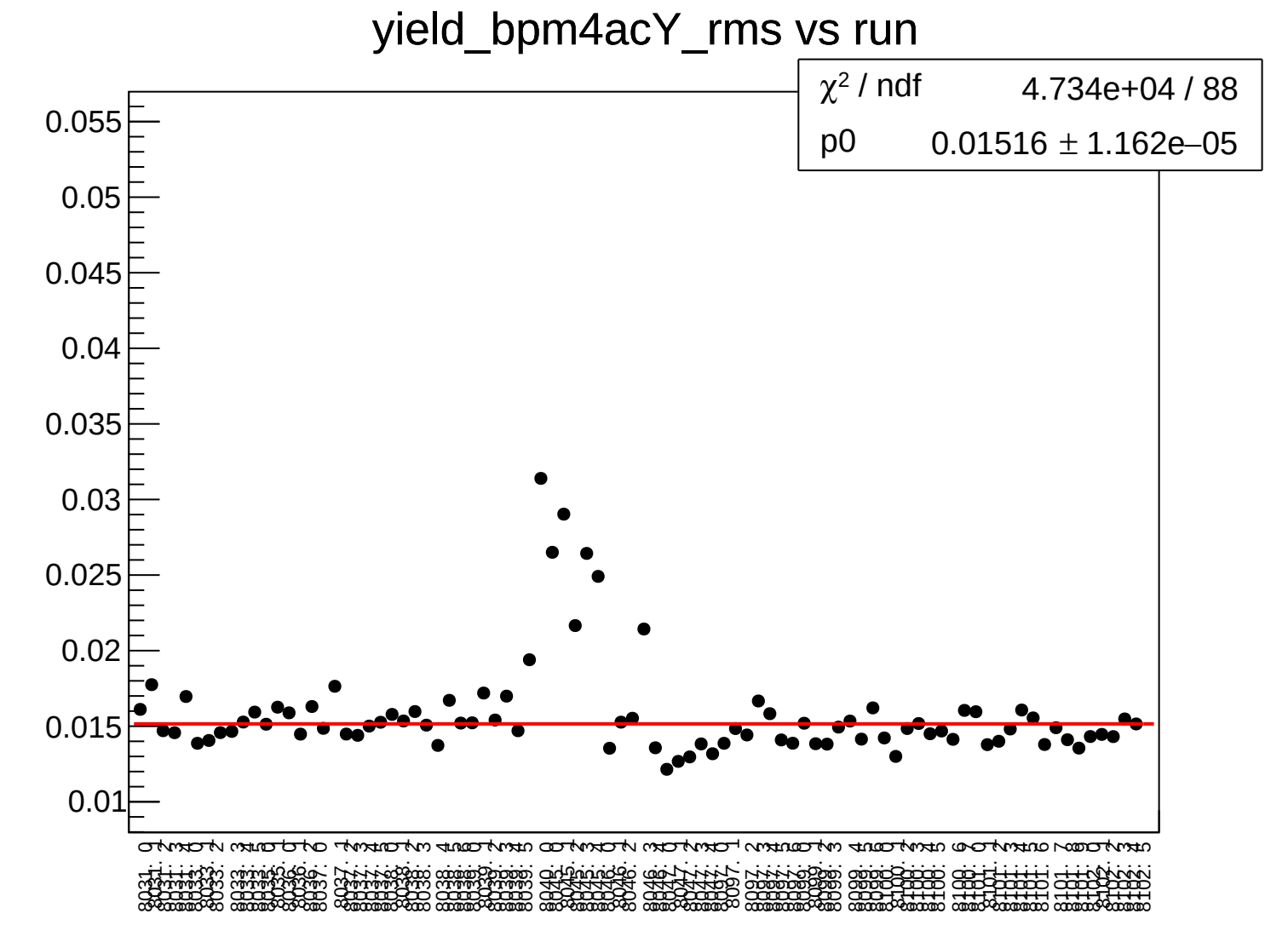

yield_bpm4acX_mean vs run
χ² / ndf 4.998e+04 / 88
p0 −0.9309 ± 5.886e−05
−0.9
−0.92
−0.94
−0.96
−0.98
pull
Entries 89
Mean 443.2
Std Dev 0
60
40
20
0
−20
−40

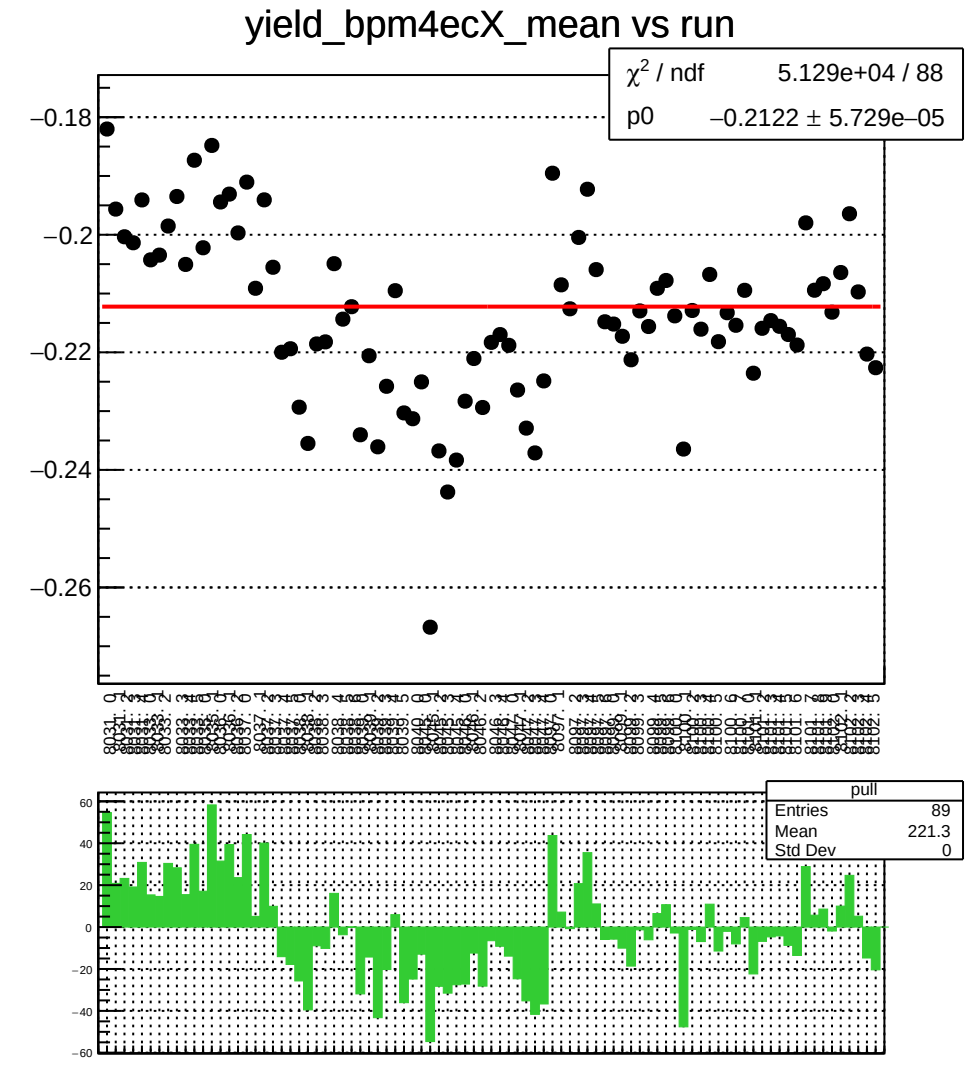

pull1D
Entries 89
Mean −1.326
Std Dev 4.245
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

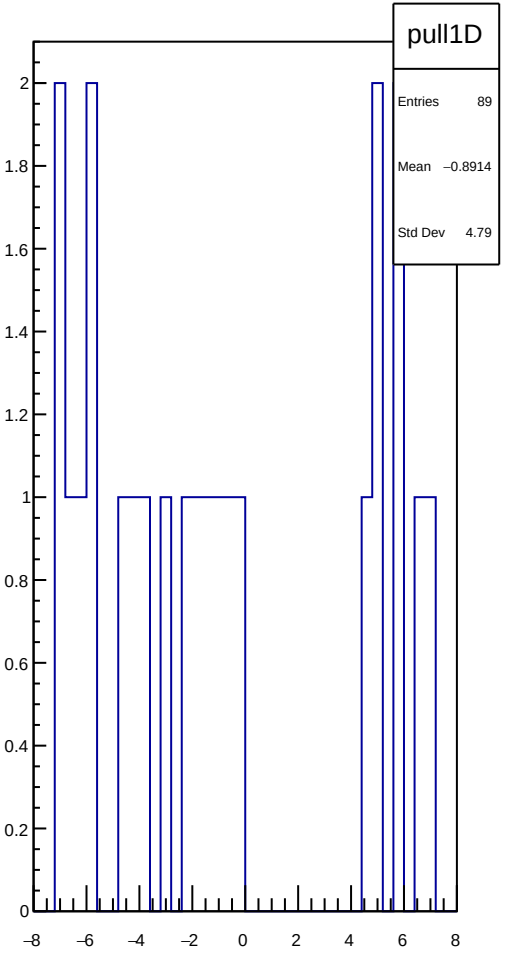

yield_bpm4acX_rms vs run
χ² / ndf 4.787e+04 / 88
p0 0.05426 ± 4.162e–05
0.1
0.09
0.08
0.07
0.06
0.05
0.04

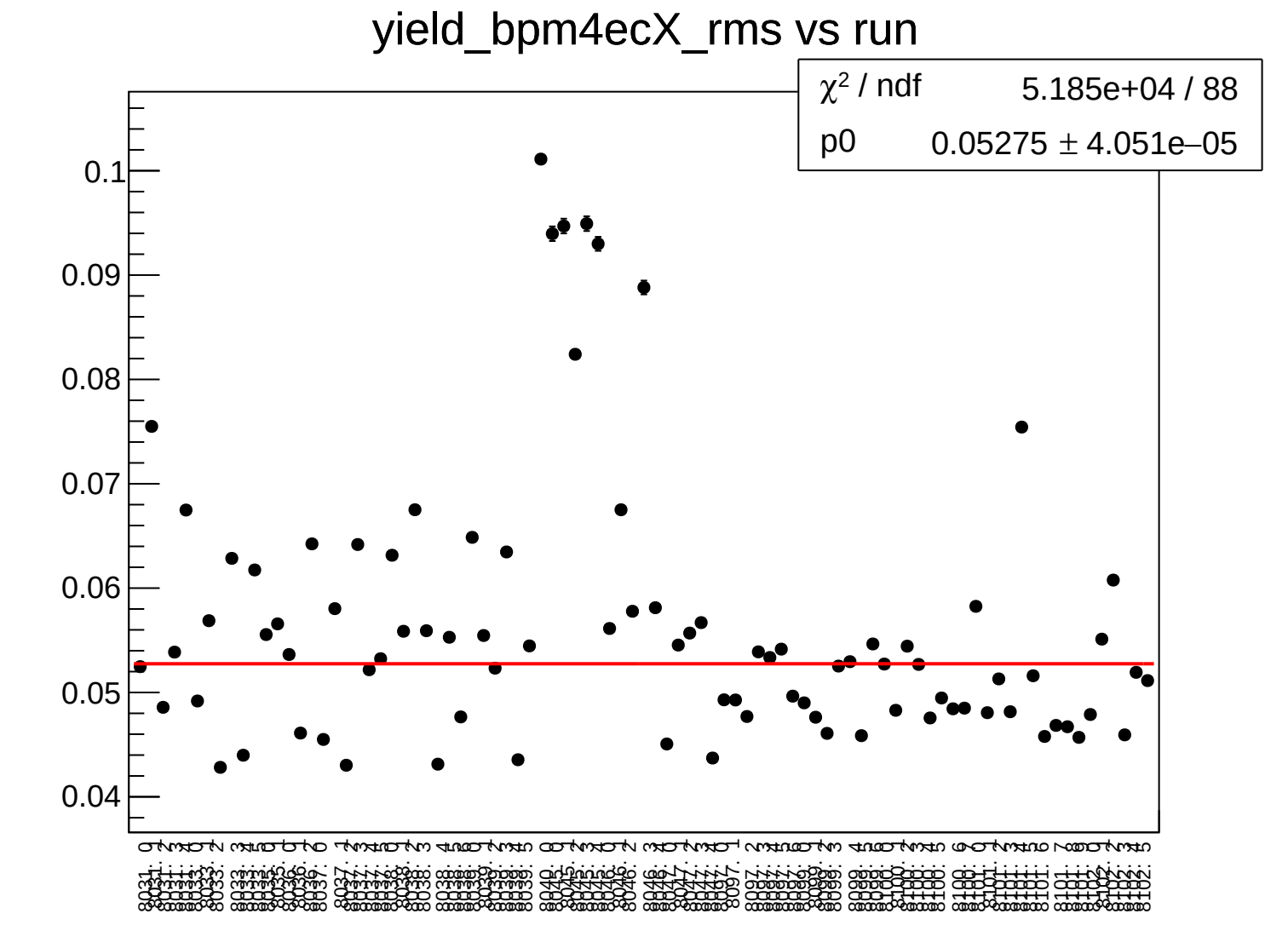

yield_bpm4acY_mean vs run
χ² / ndf 7.838e+04 / 88
p0 0.6363 ± 1.644e−05
0.65
0.645
0.64
0.635
0.63
0.625
pull
Entries 89
Mean −3069
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

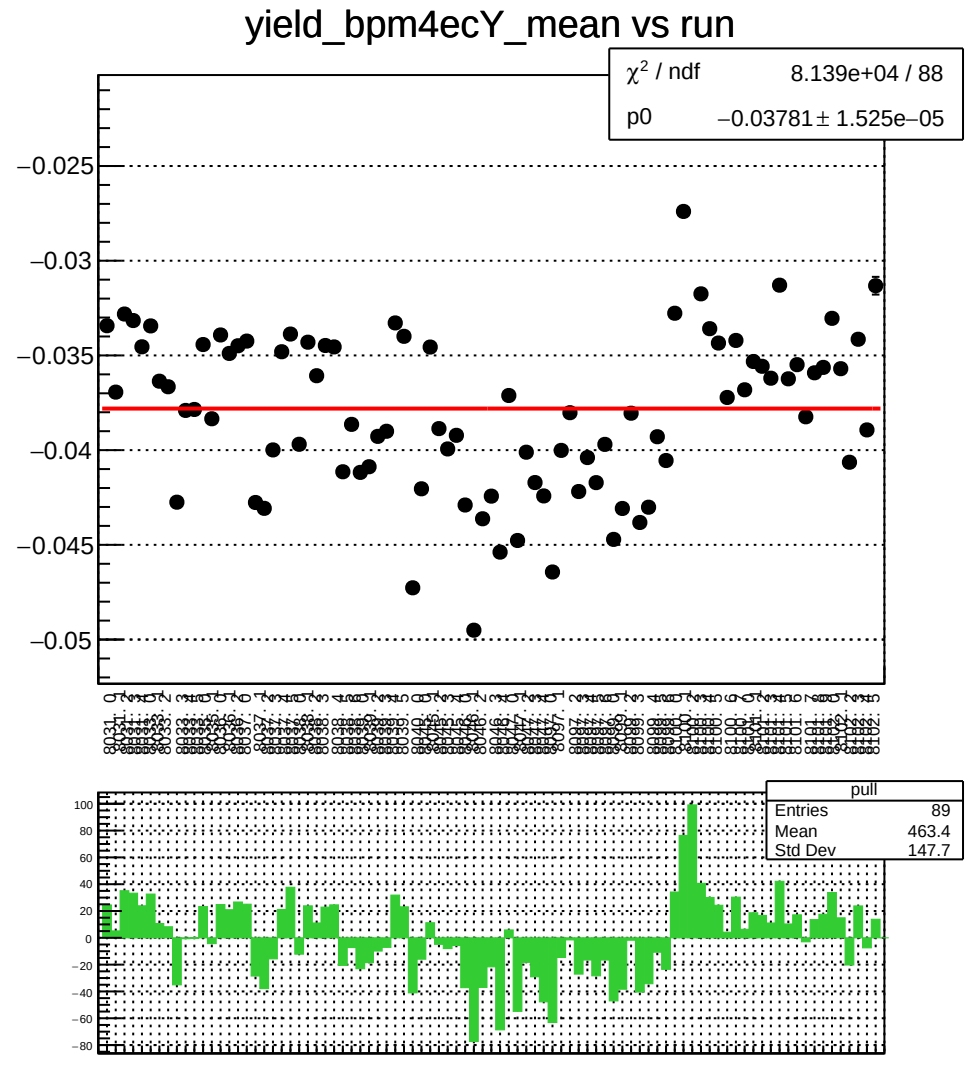

pull1D
Entries 89
Mean −0.1304
Std Dev 4.308
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

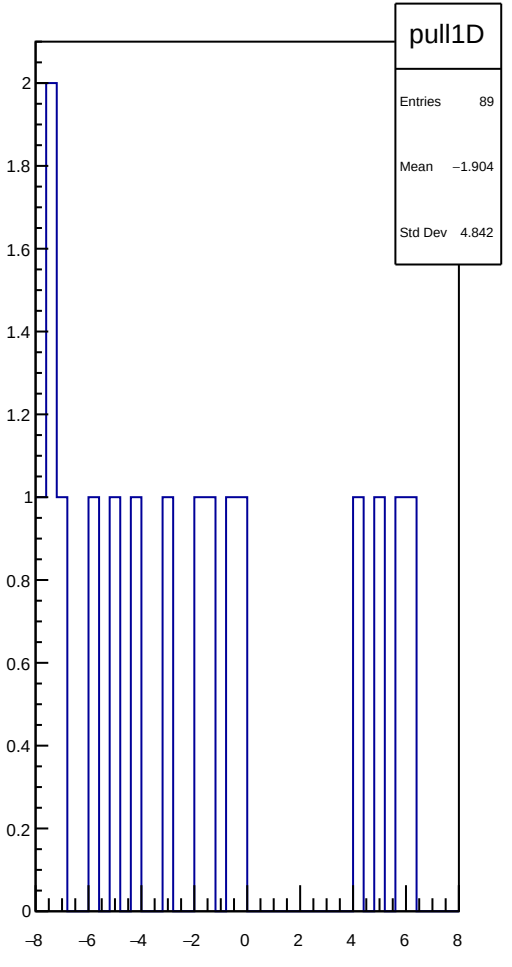

yield_bpm4acY_rms vs run
χ² / ndf 4.734e+04 / 88
p0 0.01516 ± 1.162e–05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

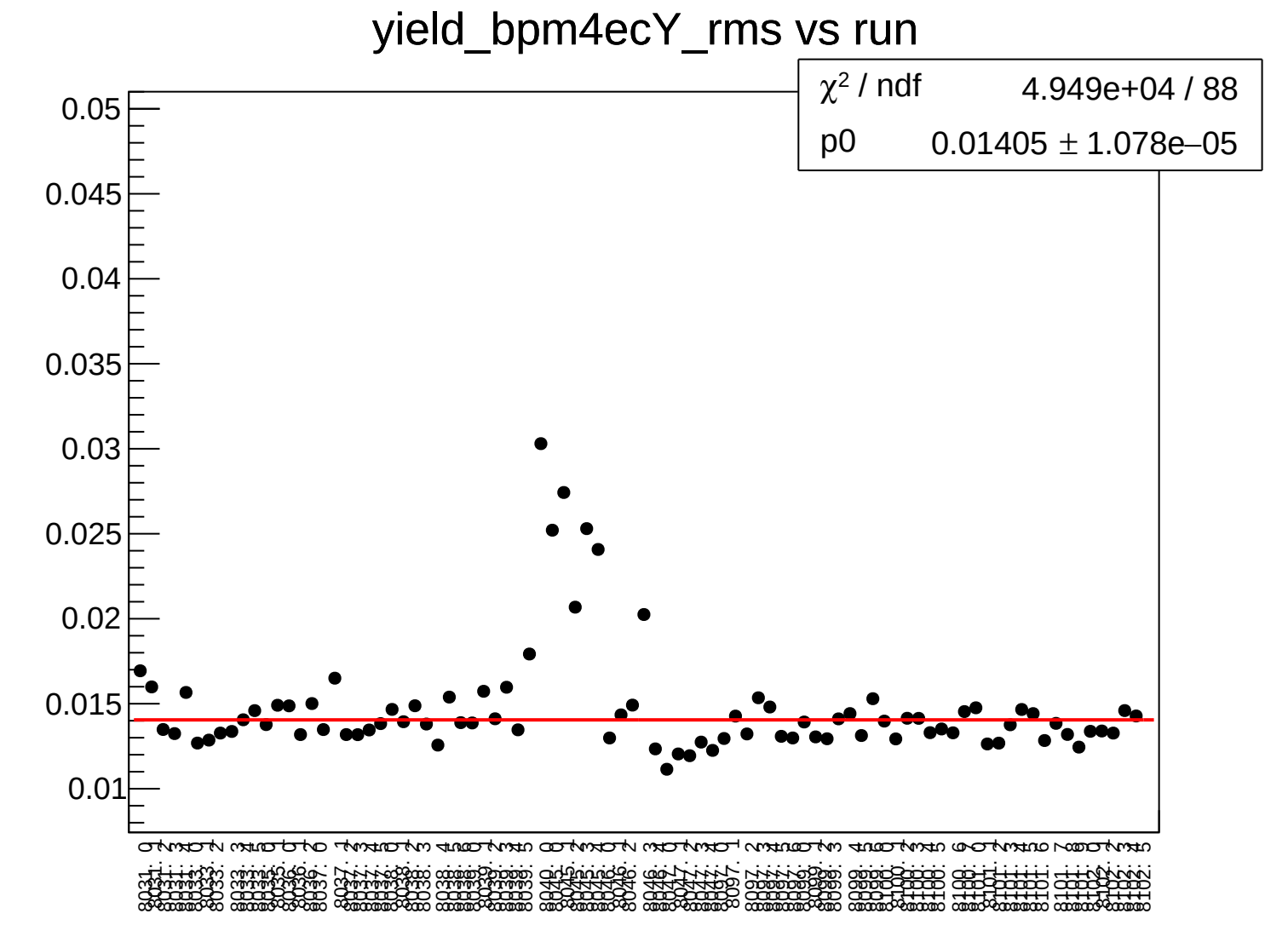

yield_bpm4ecX_mean vs run
χ² / ndf 5.129e+04 / 88
p0 −0.2122 ± 5.729e−05
−0.18
−0.2
−0.22
−0.24
−0.26
pull
Entries 89
Mean 221.3
Std Dev 0
60
40
20
0
−20
−40
−60

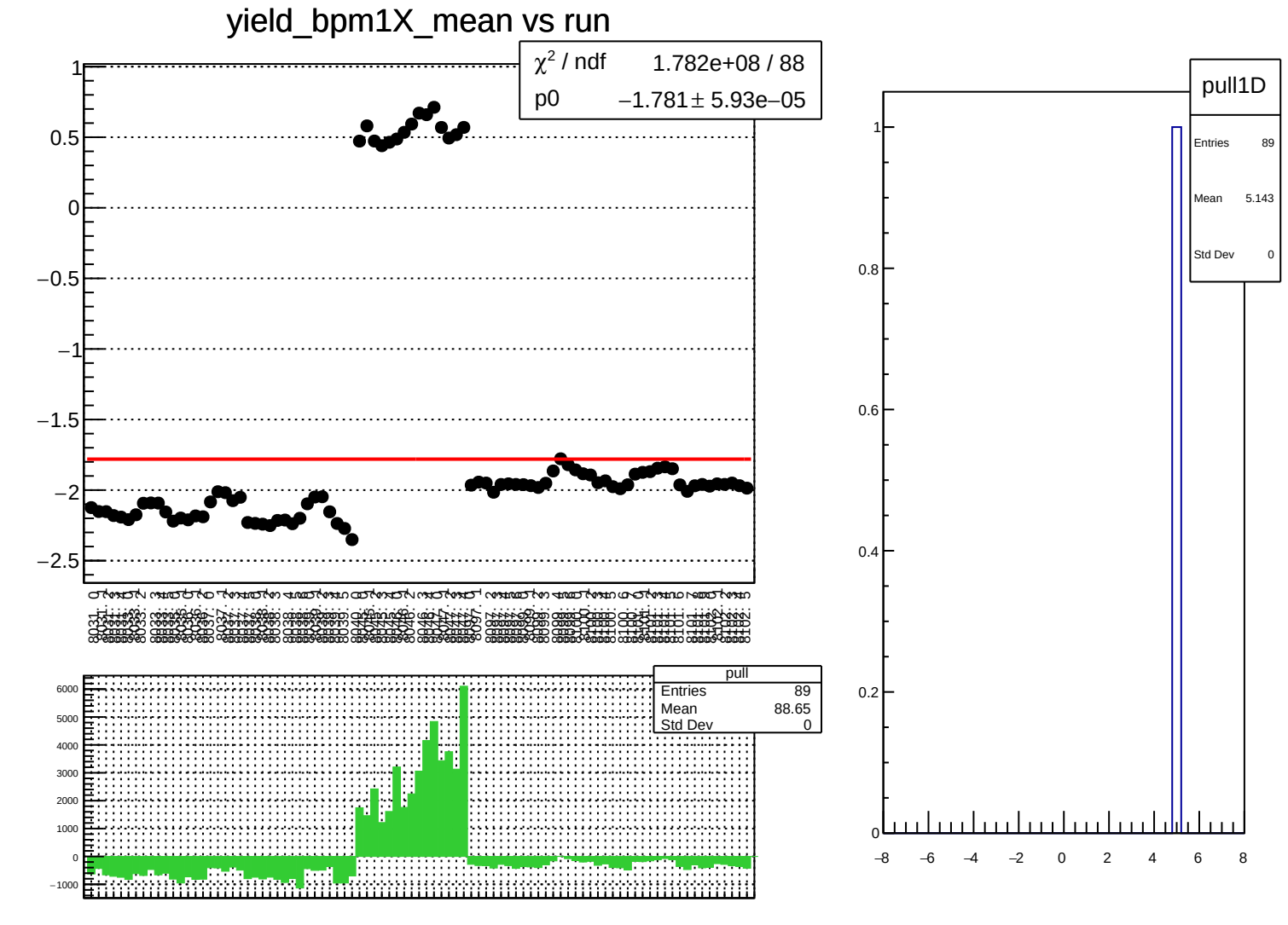

pull1D
Entries 89
Mean −0.8914
Std Dev 4.79
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

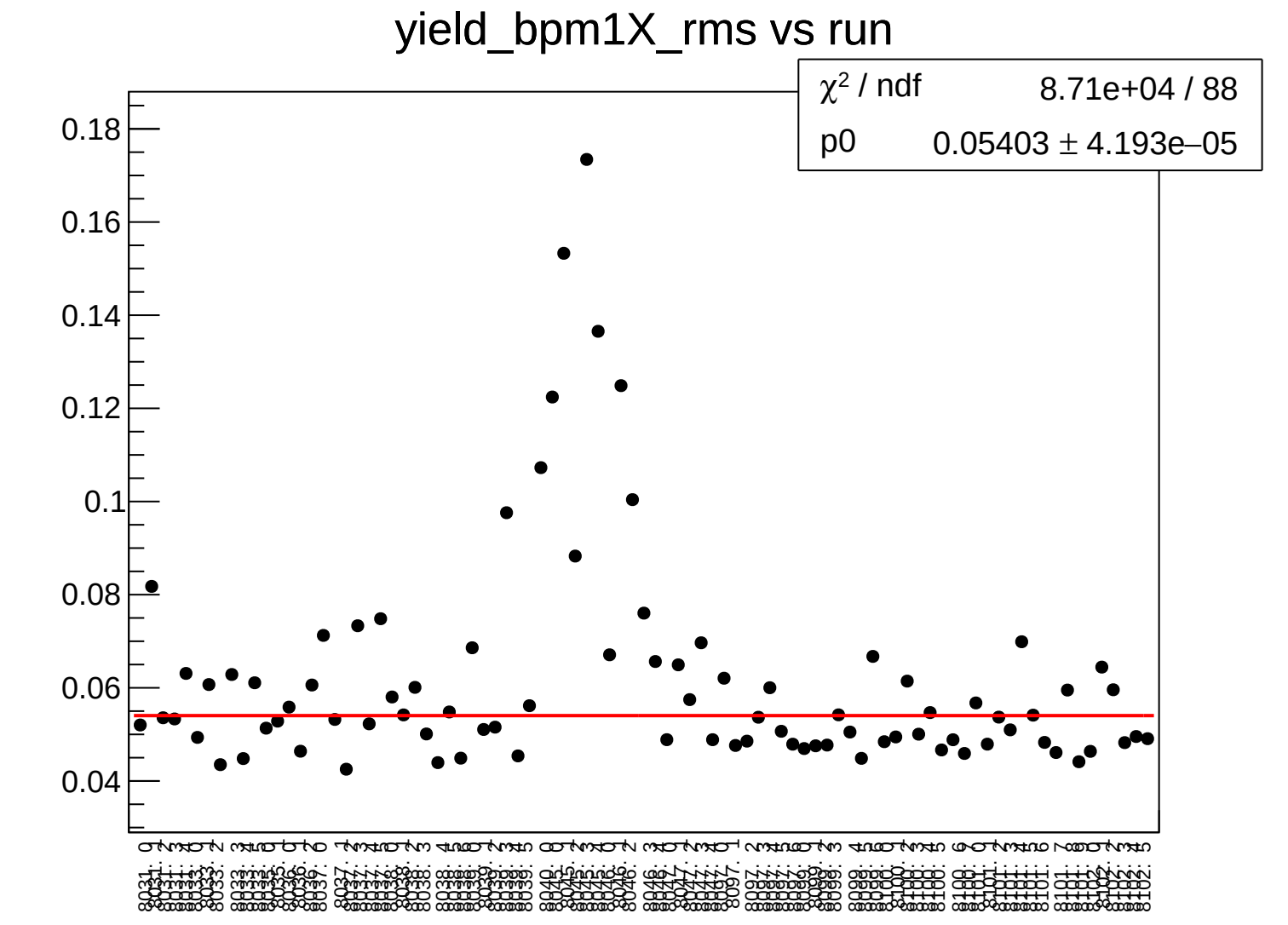

yield_bpm4ecX_rms vs run
χ² / ndf 5.185e+04 / 88
p0 0.05275 ± 4.051e–05
0.1
0.09
0.08
0.07
0.06
0.05
0.04

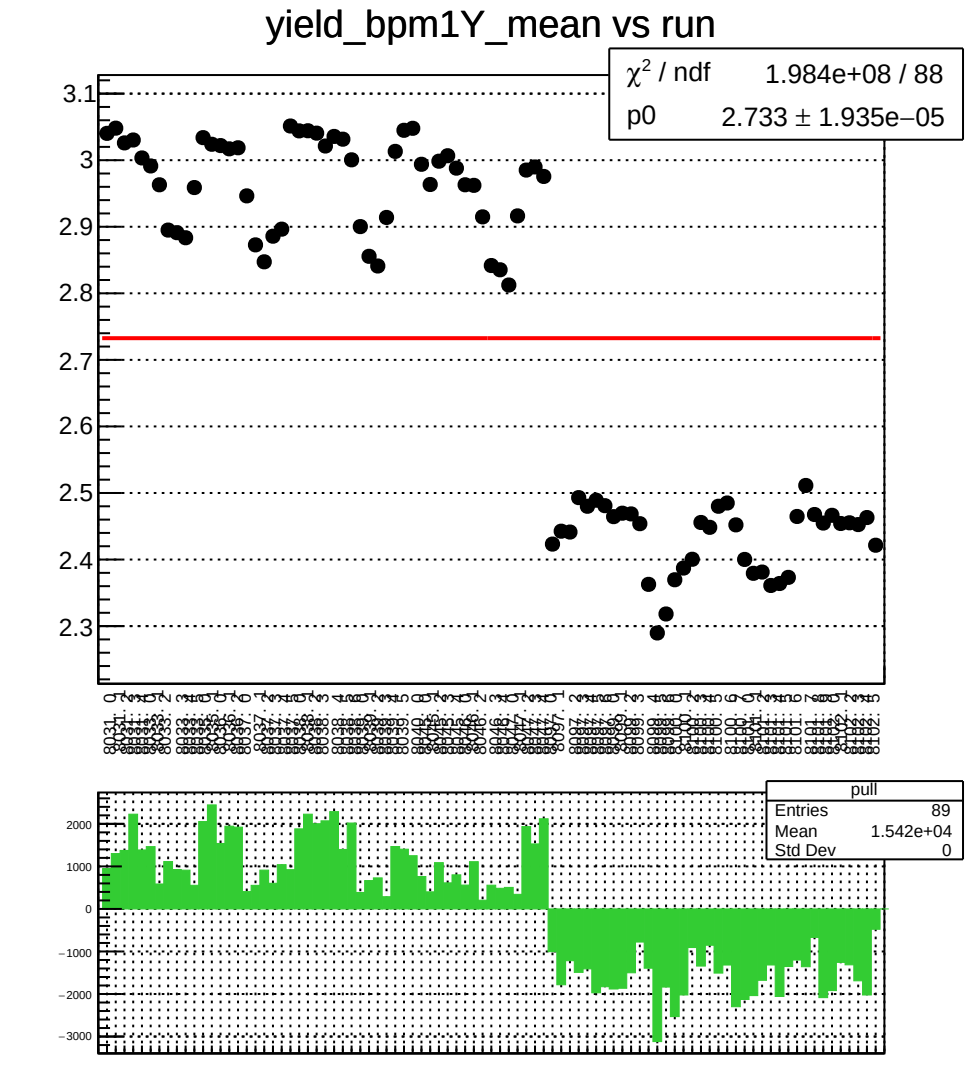

yield_bpm4ecY_mean vs run
χ² / ndf 8.139e+04 / 88
p0 −0.03781 ± 1.525e−05
−0.025
−0.03
−0.035
−0.04
−0.045
−0.05
pull
Entries 89
Mean 463.4
Std Dev 147.7
100
80
60
40
20
0
−20
−40
−60
−80

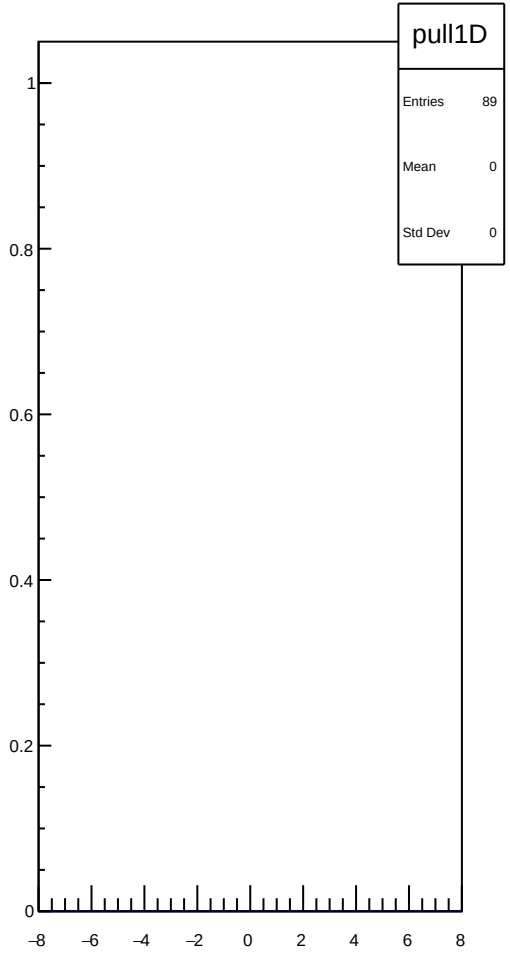

pull1D
Entries 89
Mean −1.904
Std Dev 4.842
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

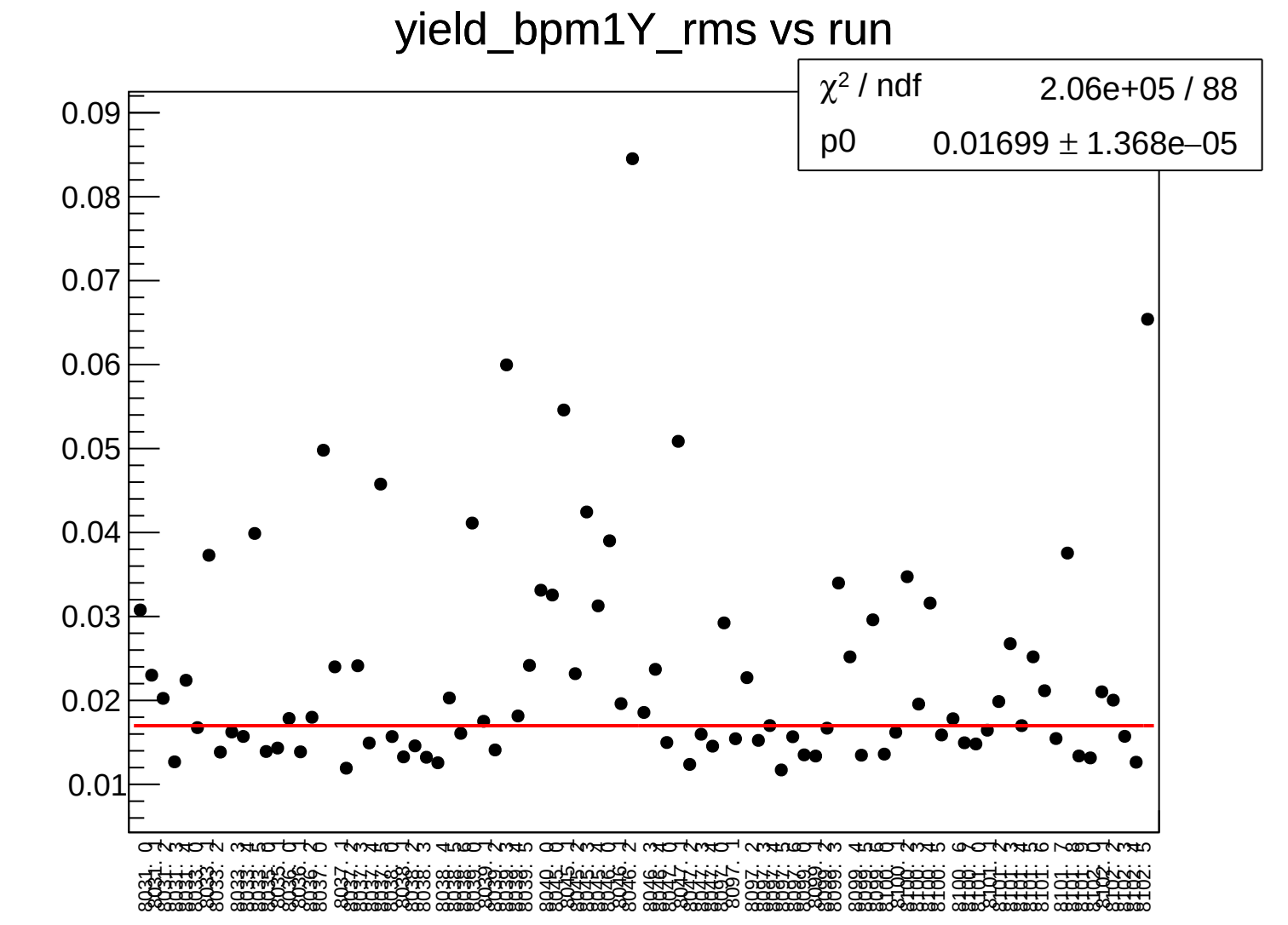

yield_bpm4ecY_rms vs run
χ² / ndf 4.949e+04 / 88
p0 0.01405 ± 1.078e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

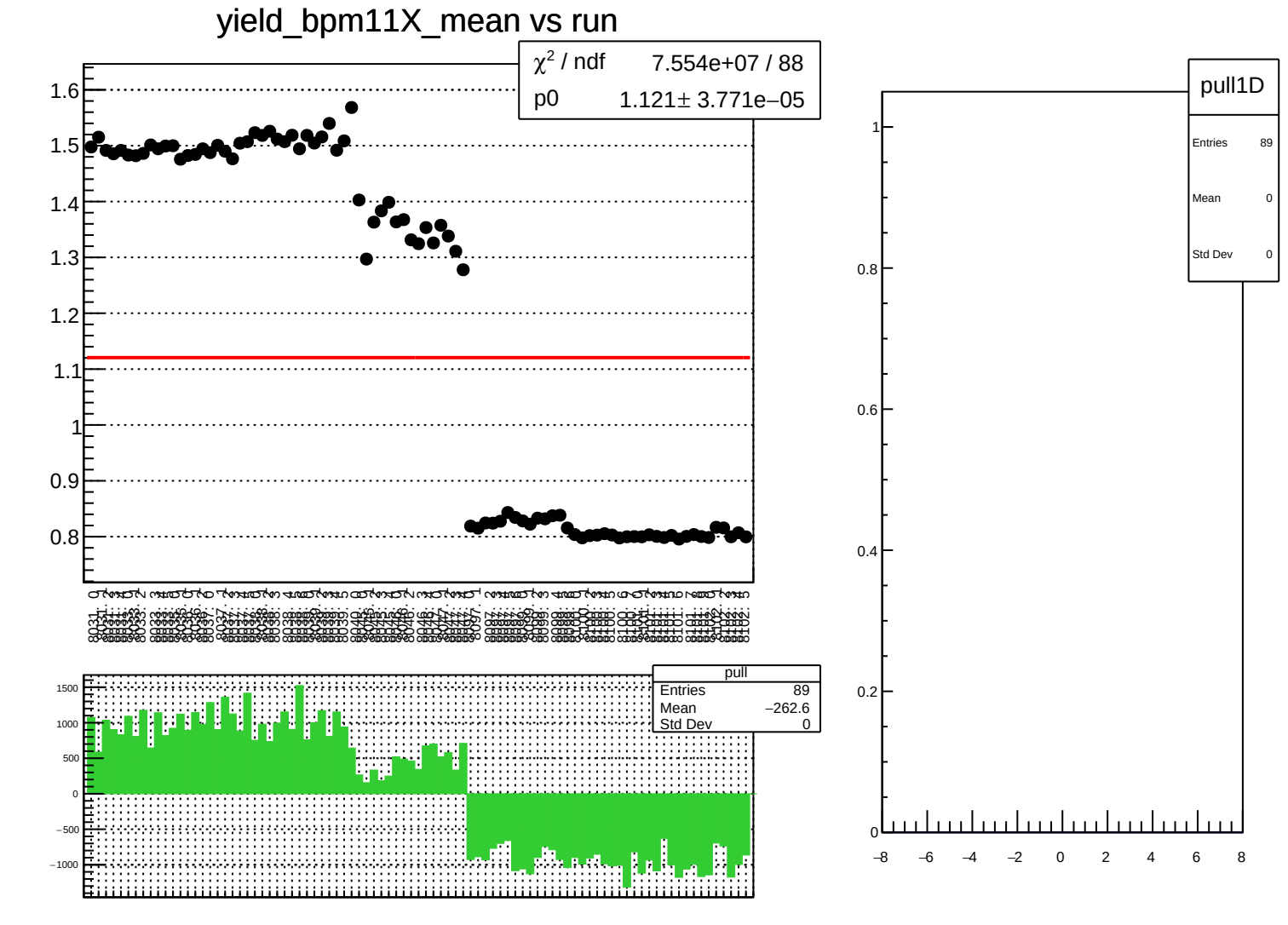

yield_bpm1X_mean vs run
χ² / ndf 1.782e+08 / 88
p0 −1.781 ± 5.93e−05
pull
Entries 89
Mean 88.65
Std Dev 0
pull1D
Entries 89
Mean 5.143
Std Dev 0

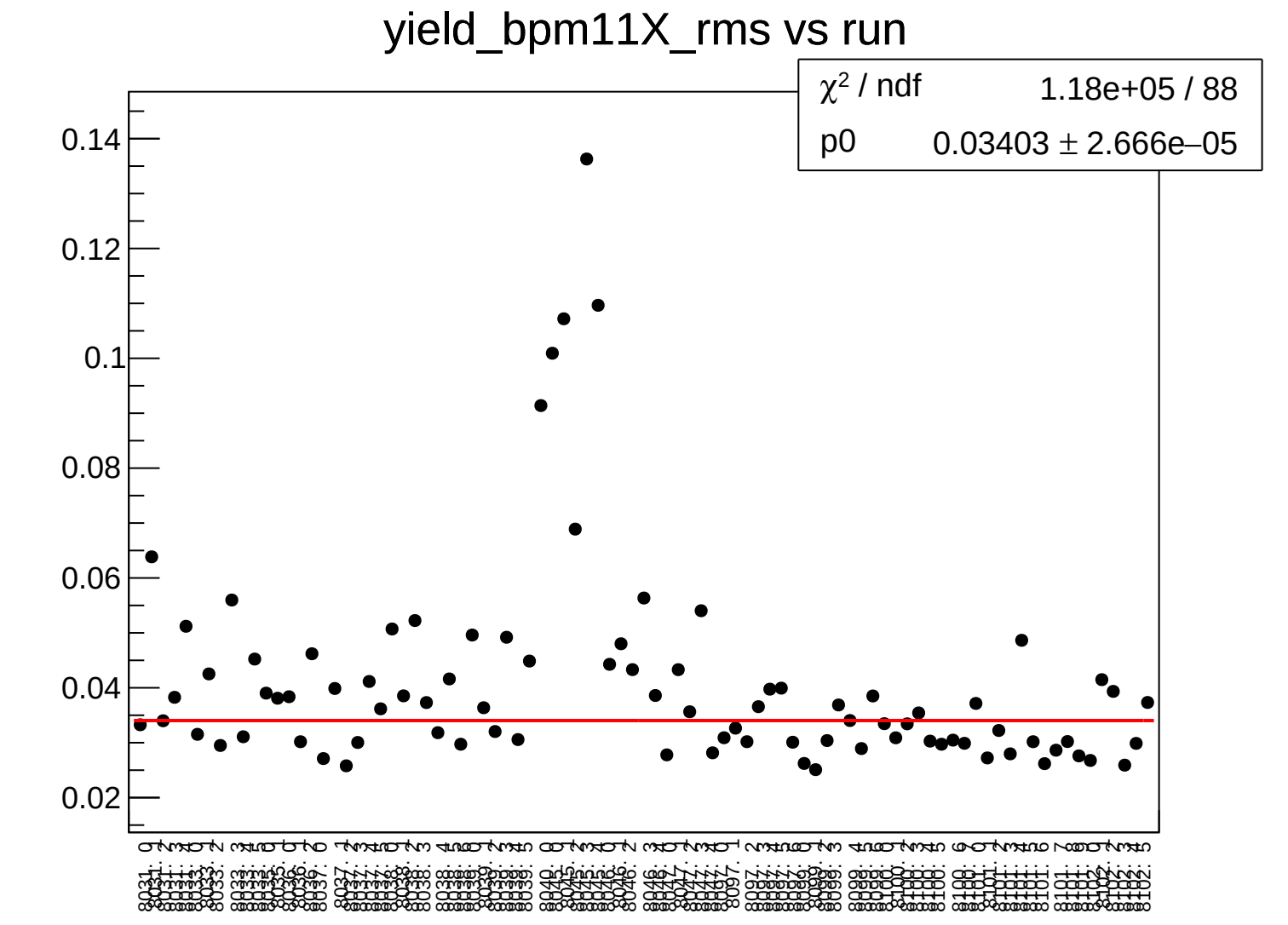

yield_bpm1X_rms vs run
χ² / ndf 8.71e+04 / 88
p0 0.05403 ± 4.193e–05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04

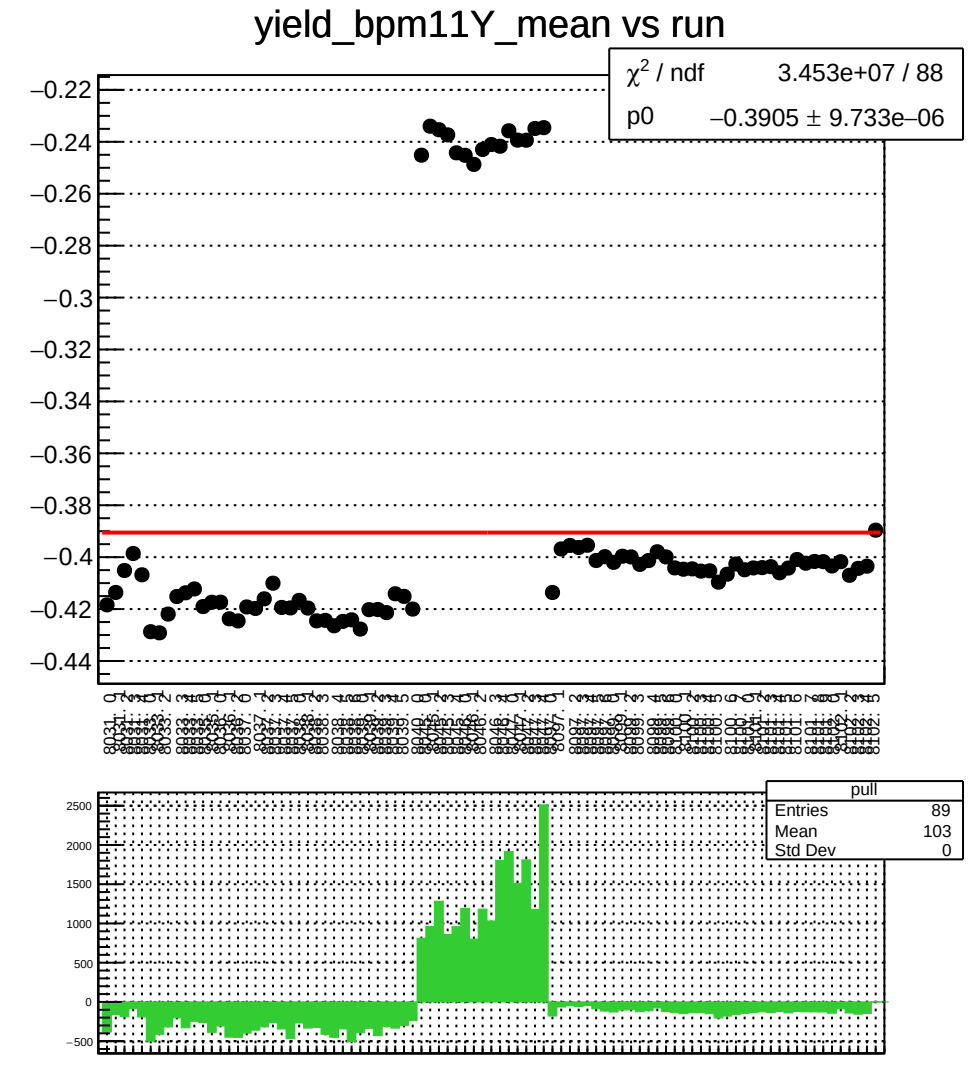

yield_bpm1Y_mean vs run
χ² / ndf 1.984e+08 / 88
p0 2.733 ± 1.935e−05
3.1
3
2.9
2.8
2.7
2.6
2.5
2.4
2.3
pull
Entries 89
Mean 1.542e+04
Std Dev 0
2000
1000
0
−1000
−2000
−3000

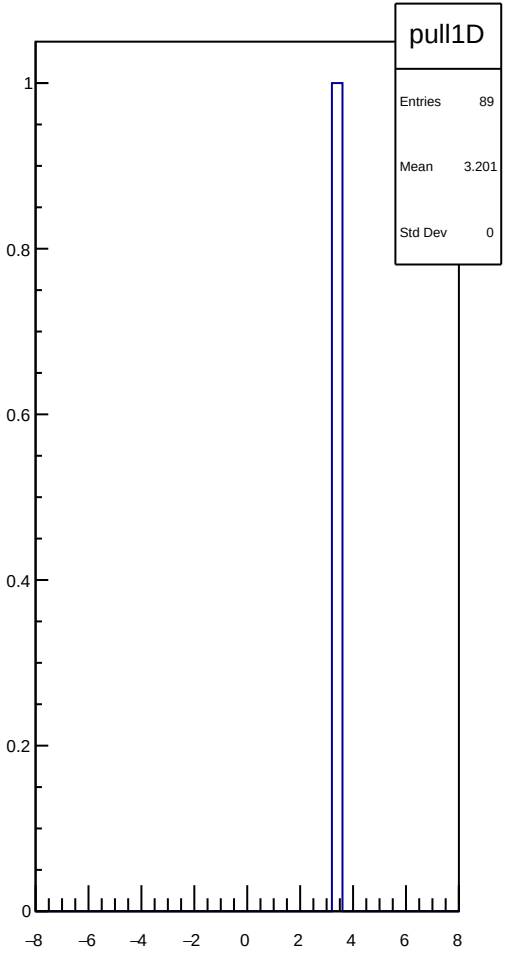

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

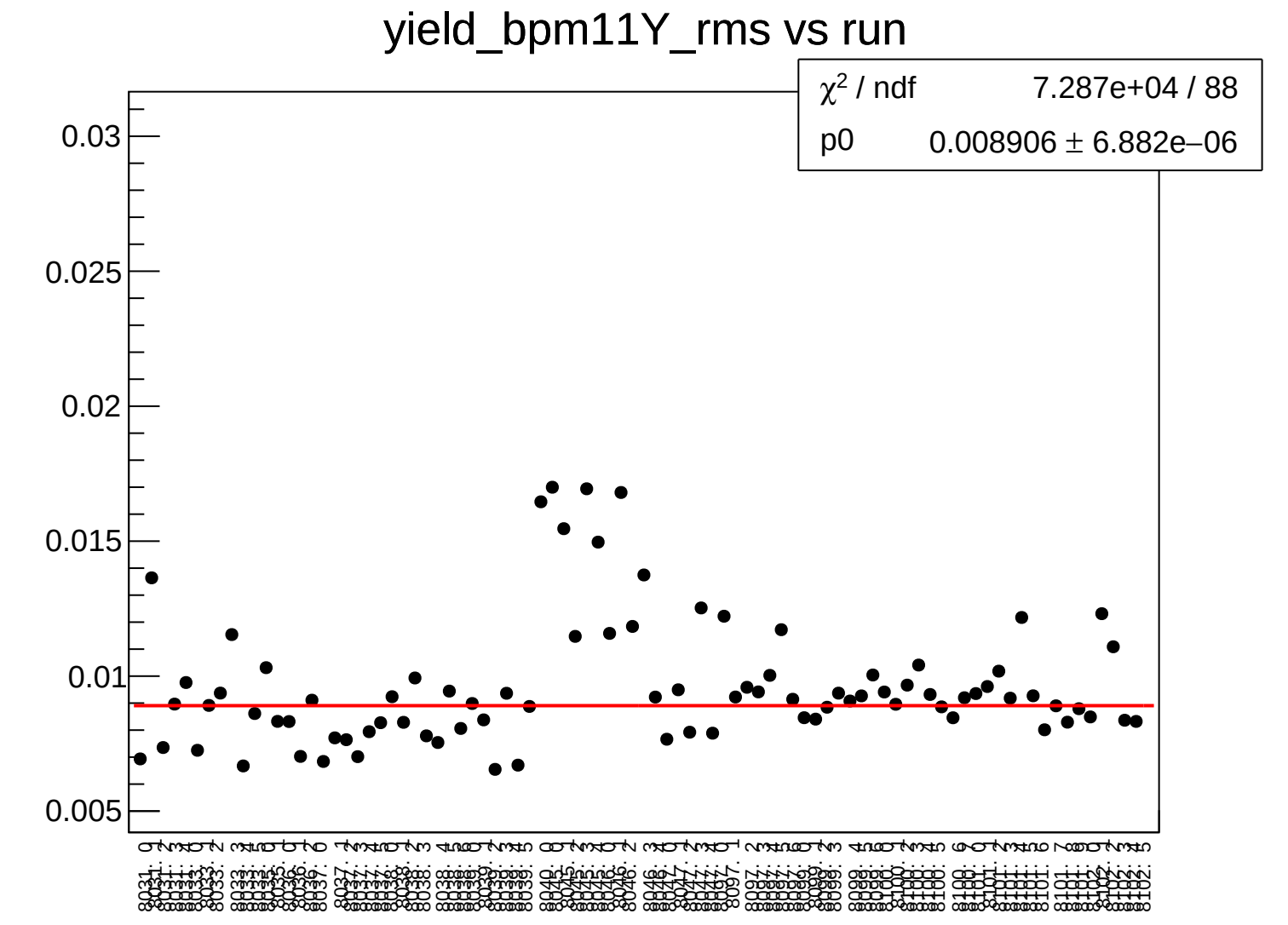

yield_bpm1Y_rms vs run
χ² / ndf 2.06e+05 / 88
p0 0.01699 ± 1.368e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

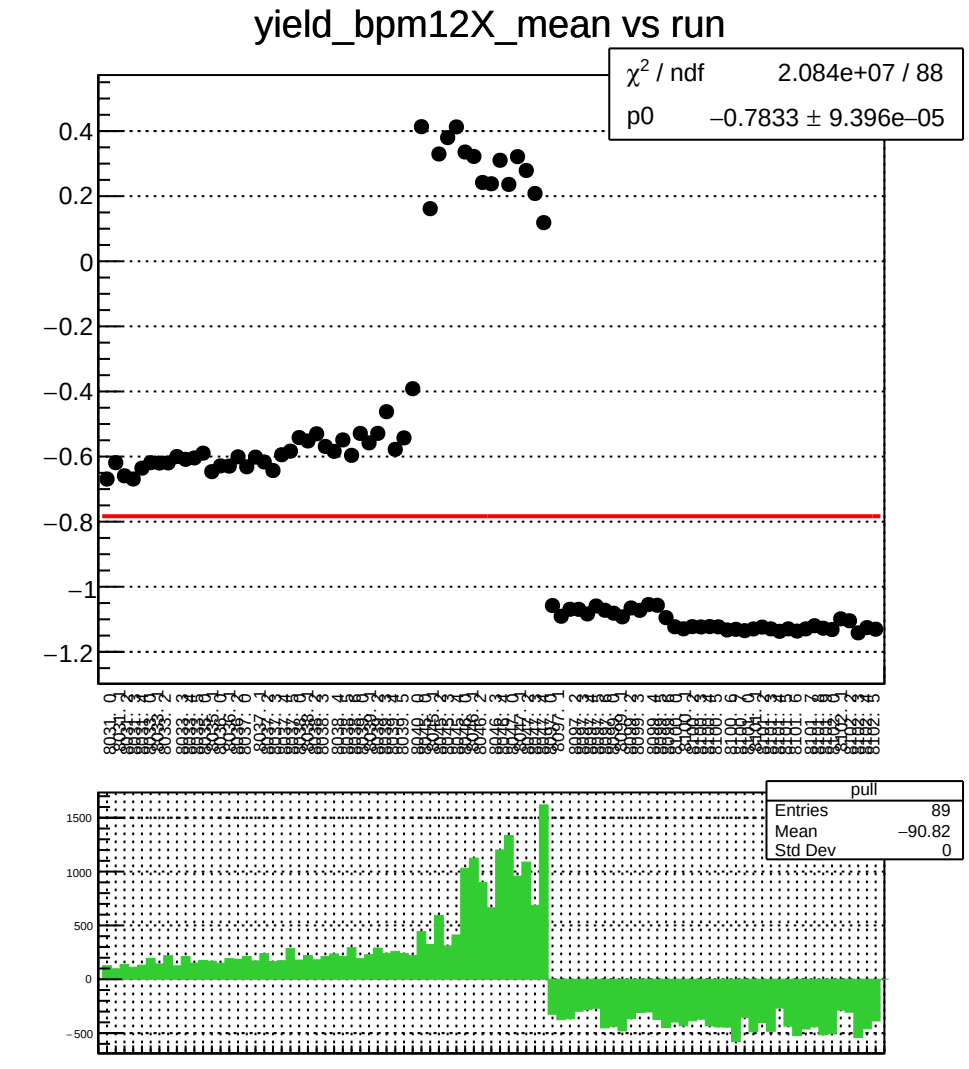

yield_bpm11X_mean vs run
χ² / ndf 7.554e+07 / 88
p0 1.121± 3.771e−05
pull
Entries 89
Mean −262.6
Std Dev 0
pull1D
Entries 89
Mean 0
Std Dev 0

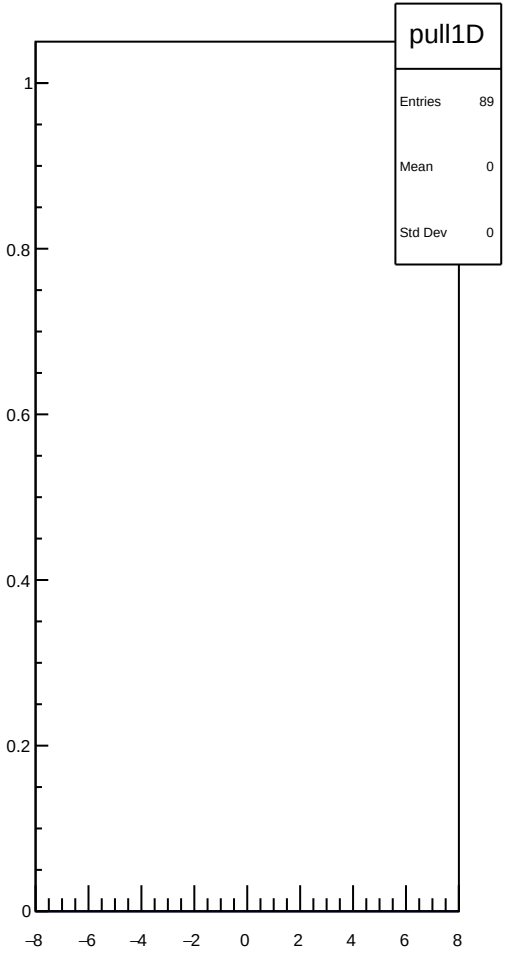

yield_bpm11X_rms vs run
χ² / ndf 1.18e+05 / 88
p0 0.03403 ± 2.666e−05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

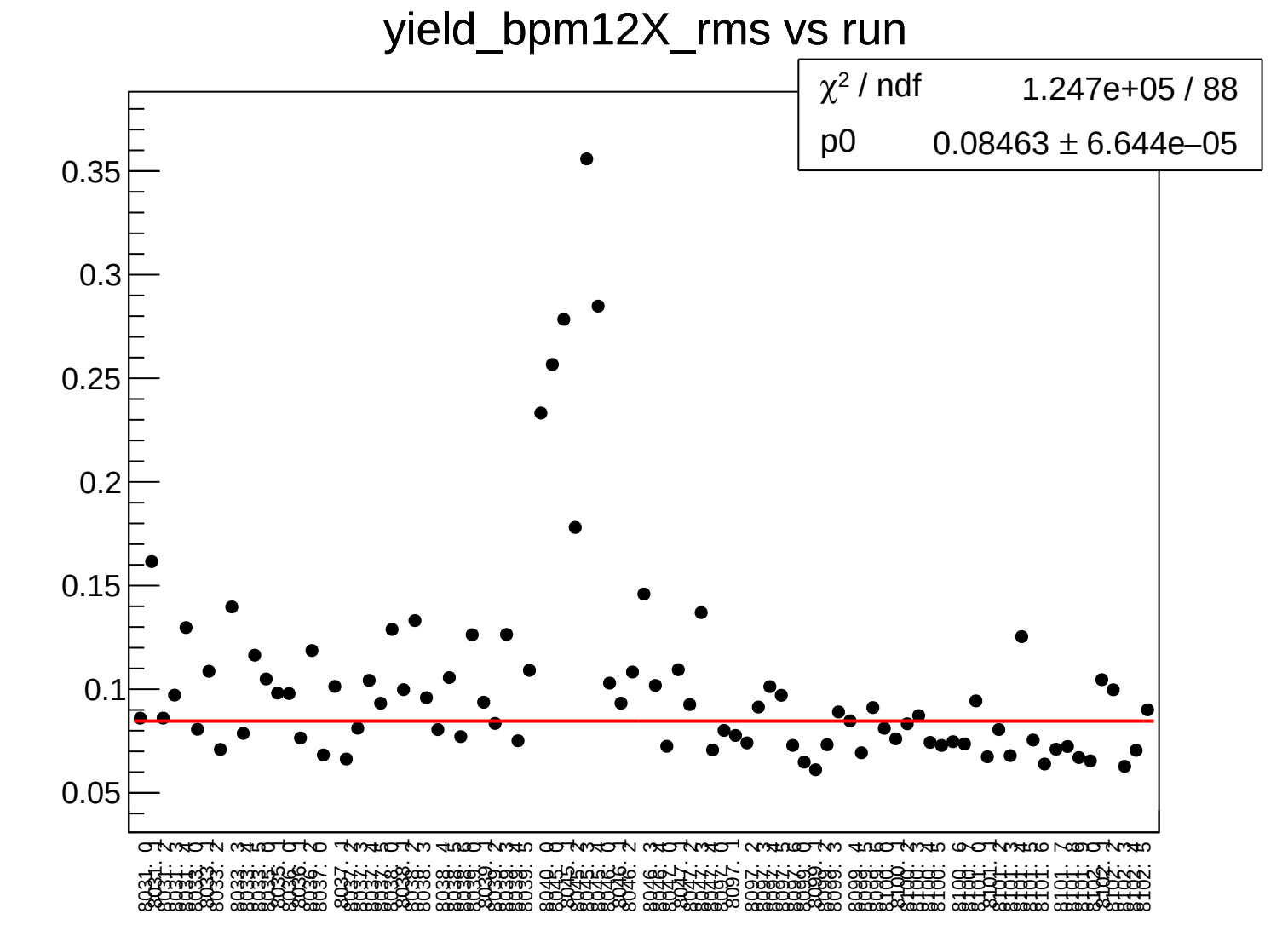

yield_bpm11Y_mean vs run
χ² / ndf 3.453e+07 / 88
p0 −0.3905 ± 9.733e−06
−0.22
−0.24
−0.26
−0.28
−0.3
−0.32
−0.34
−0.36
−0.38
−0.4
−0.42
−0.44
pull
Entries 89
Mean 103
Std Dev 0
2500
2000
1500
1000
500
0
−500

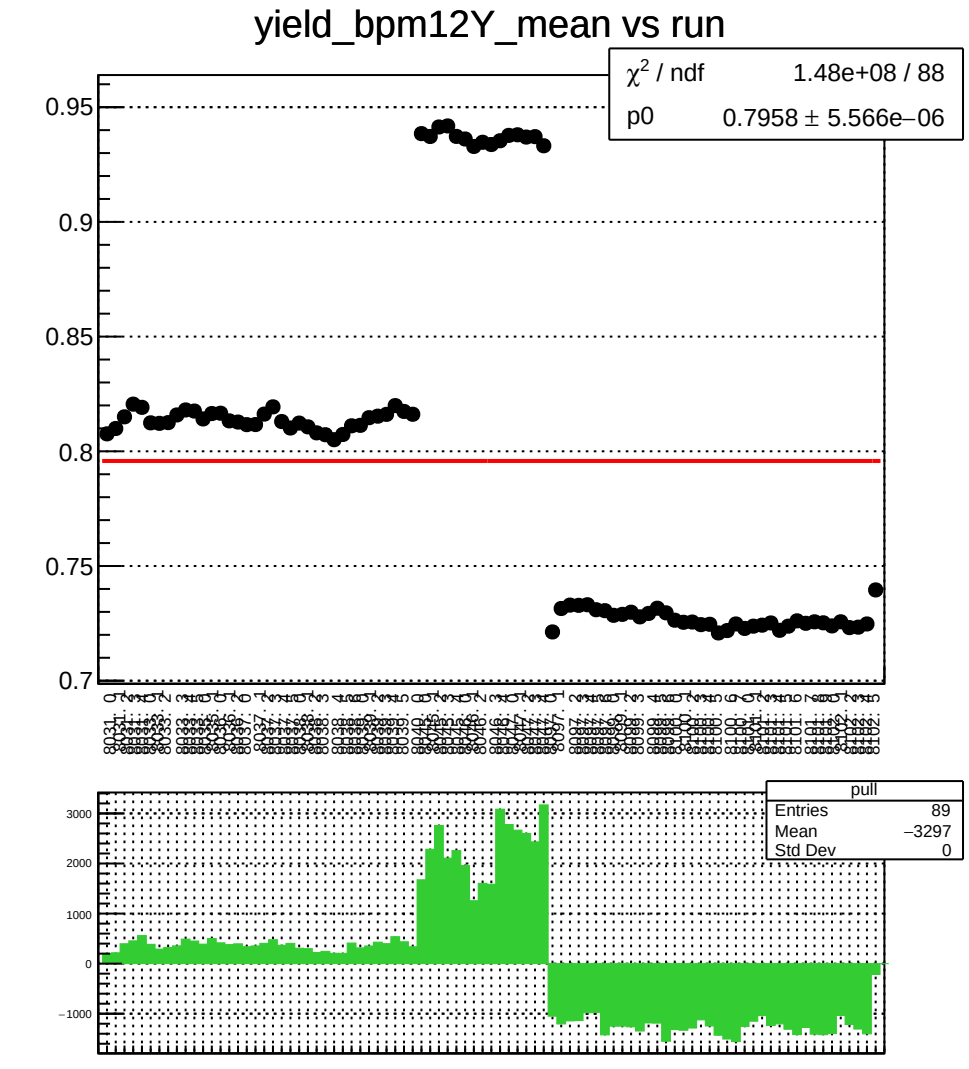

pull1D
Entries 89
Mean 3.201
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

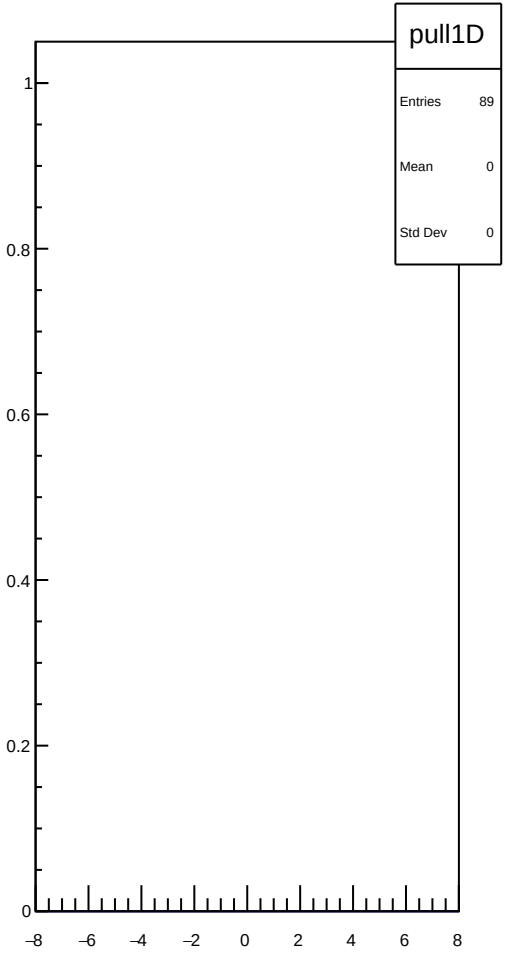

yield_bpm11Y_rms vs run
χ² / ndf 7.287e+04 / 88
p0 0.008906 ± 6.882e−06
0.03
0.025
0.02
0.015
0.01
0.005

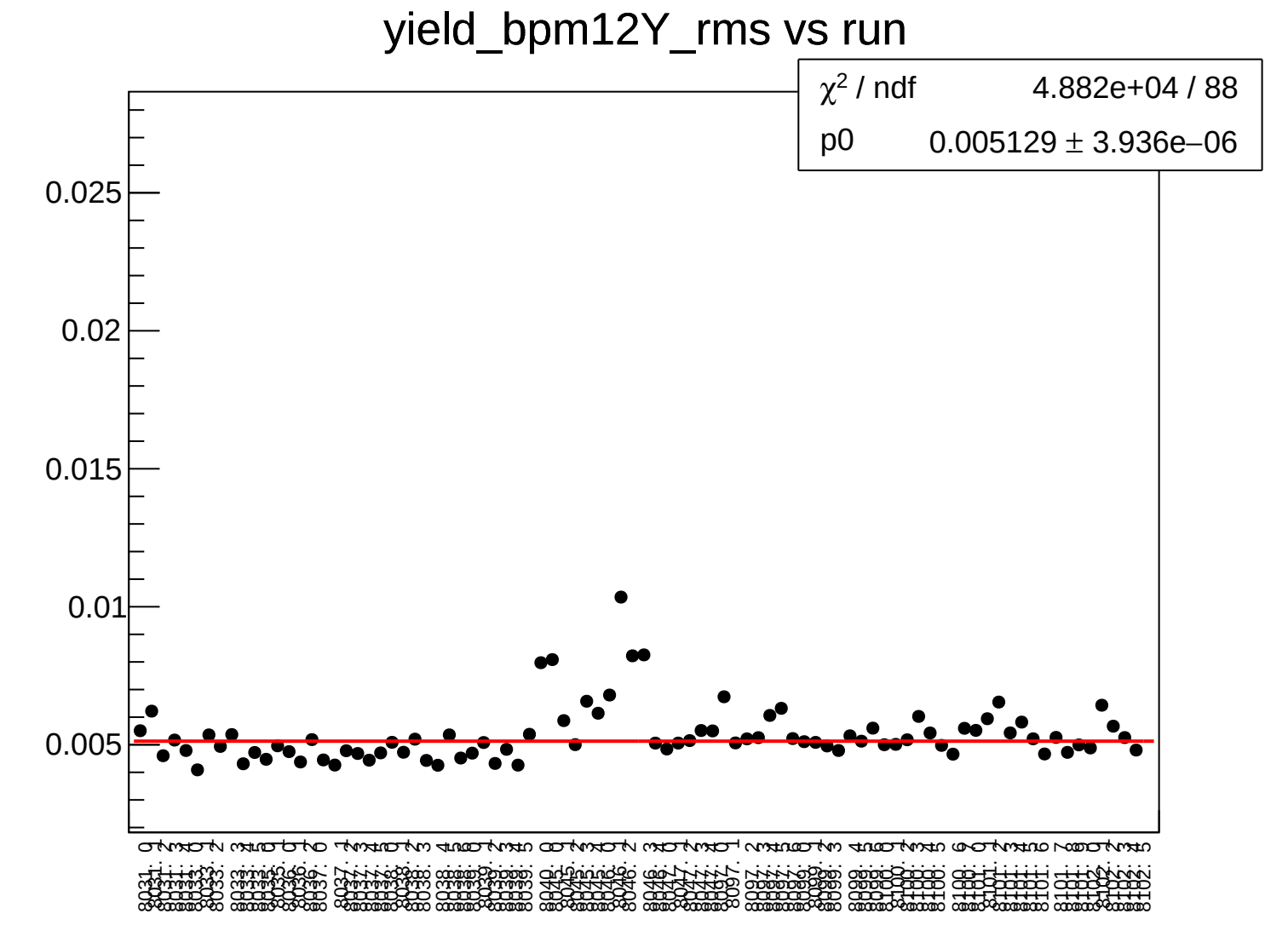

yield_bpm12X_mean vs run
χ² / ndf 2.084e+07 / 88
p0 −0.7833 ± 9.396e−05
pull
Entries 89
Mean −90.82
Std Dev 0

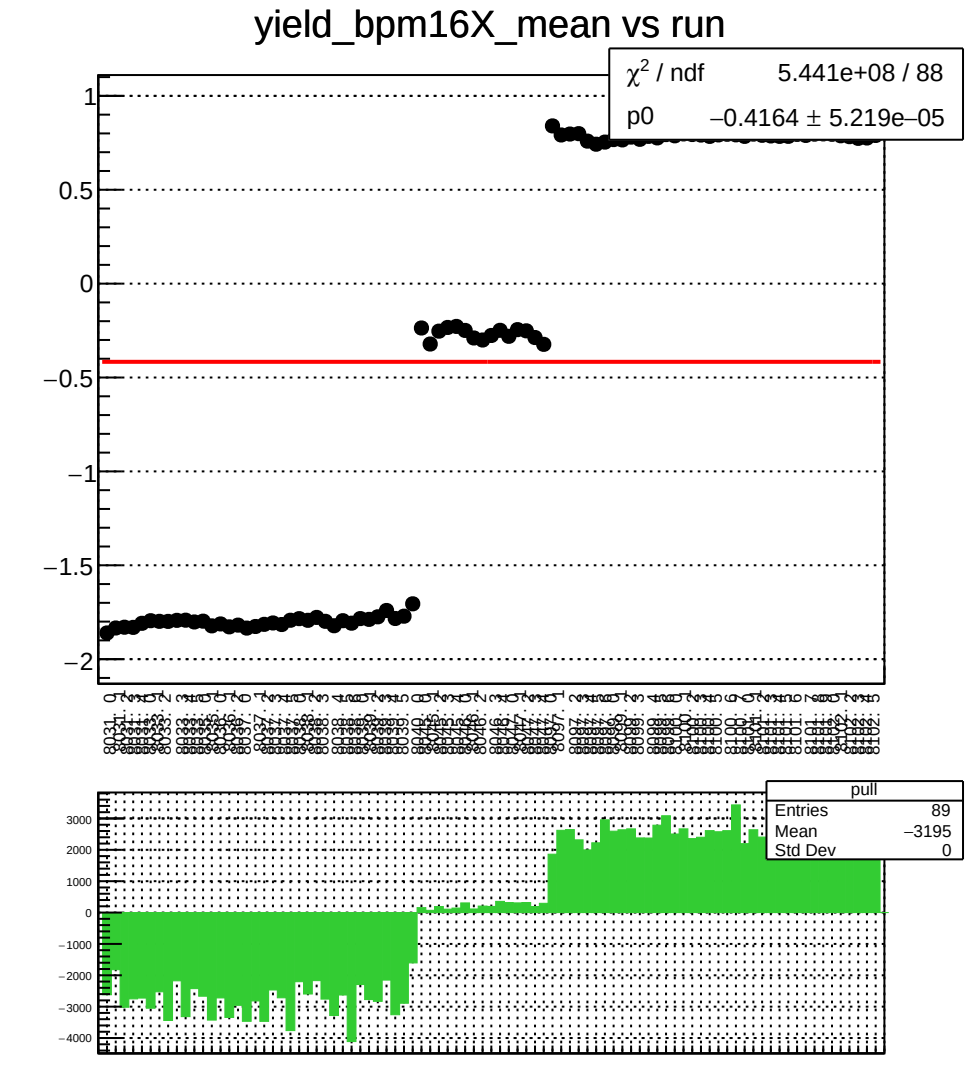

pull1D
Entries 89
Mean 0
Std Dev 0

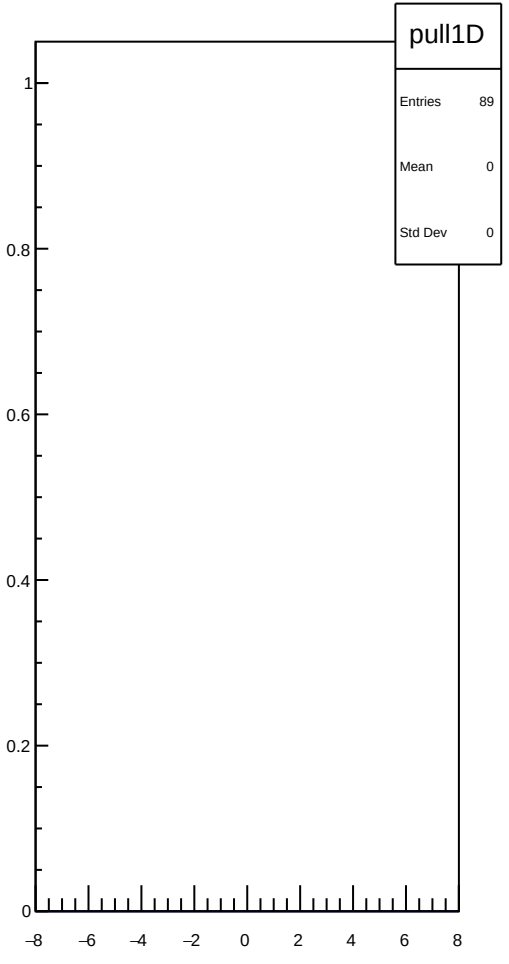

yield_bpm12X_rms vs run
χ² / ndf 1.247e+05 / 88
p0 0.08463 ± 6.644e–05
0.35
0.3
0.25
0.2
0.15
0.1
0.05

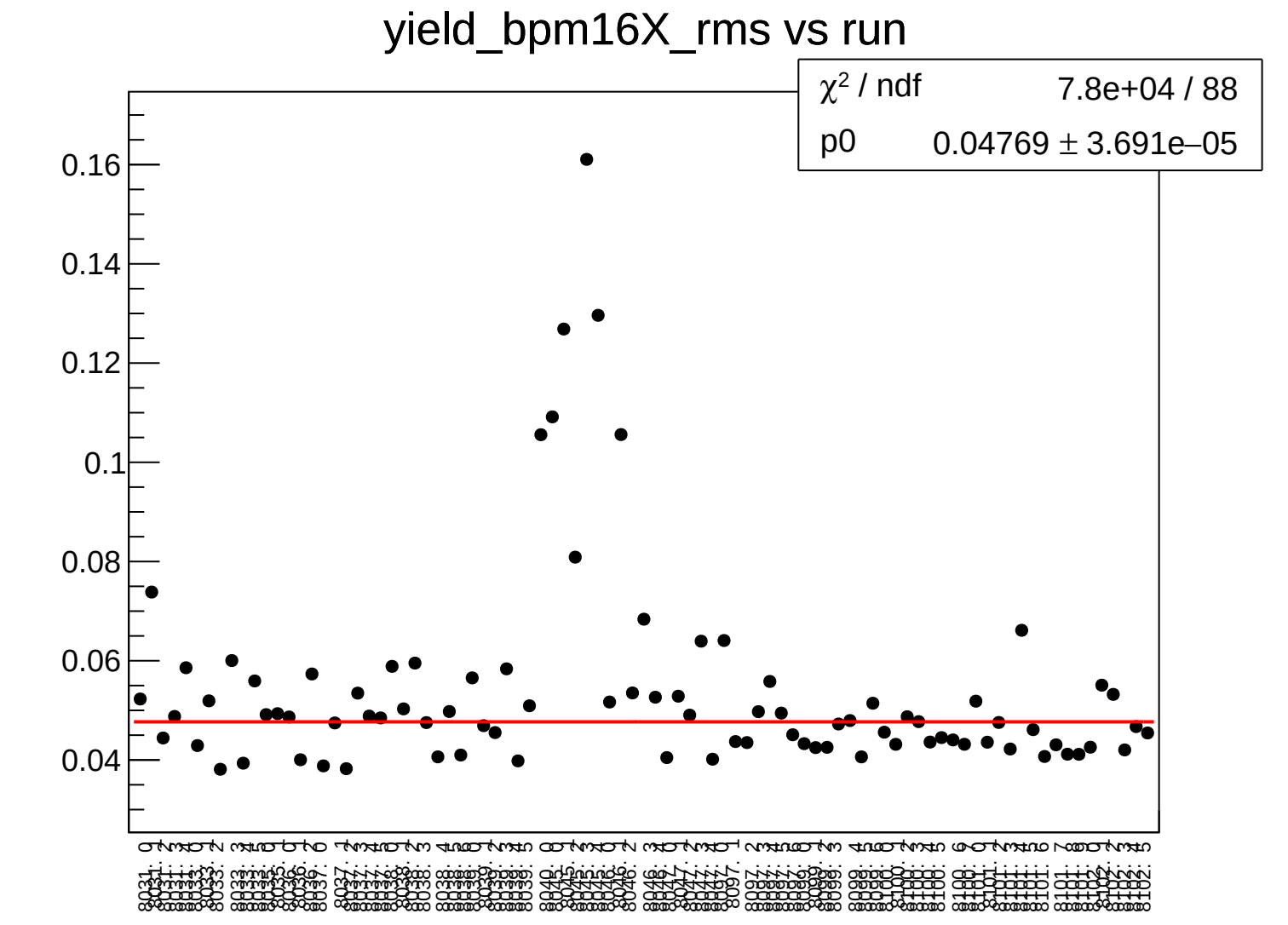

yield_bpm12Y_mean vs run
χ² / ndf 1.48e+08 / 88
p0 0.7958 ± 5.566e−06
0.95
0.9
0.85
0.8
0.75
0.7
pull
Entries 89
Mean −3297
Std Dev 0
3000
2000
1000
0
−1000

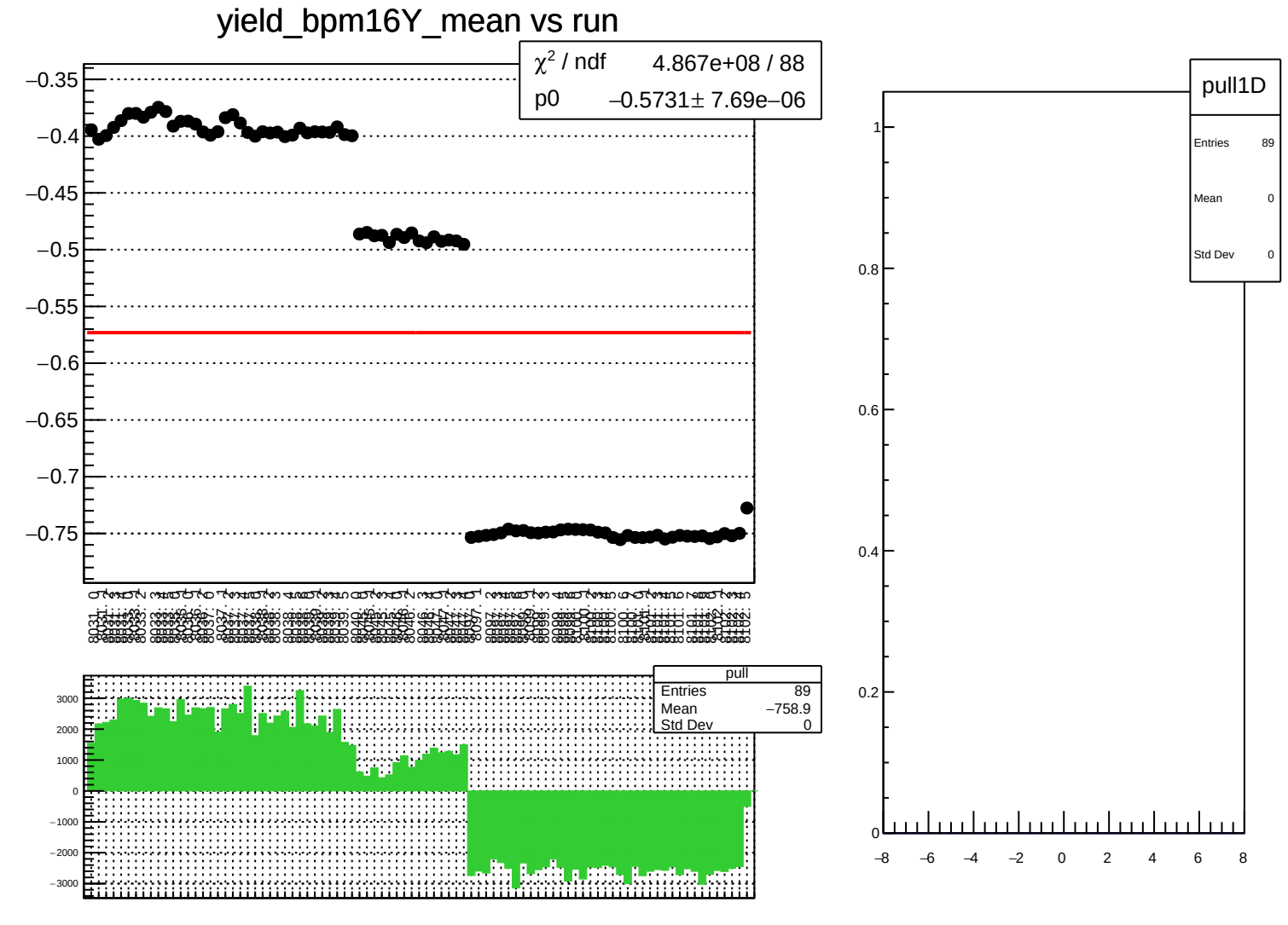

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

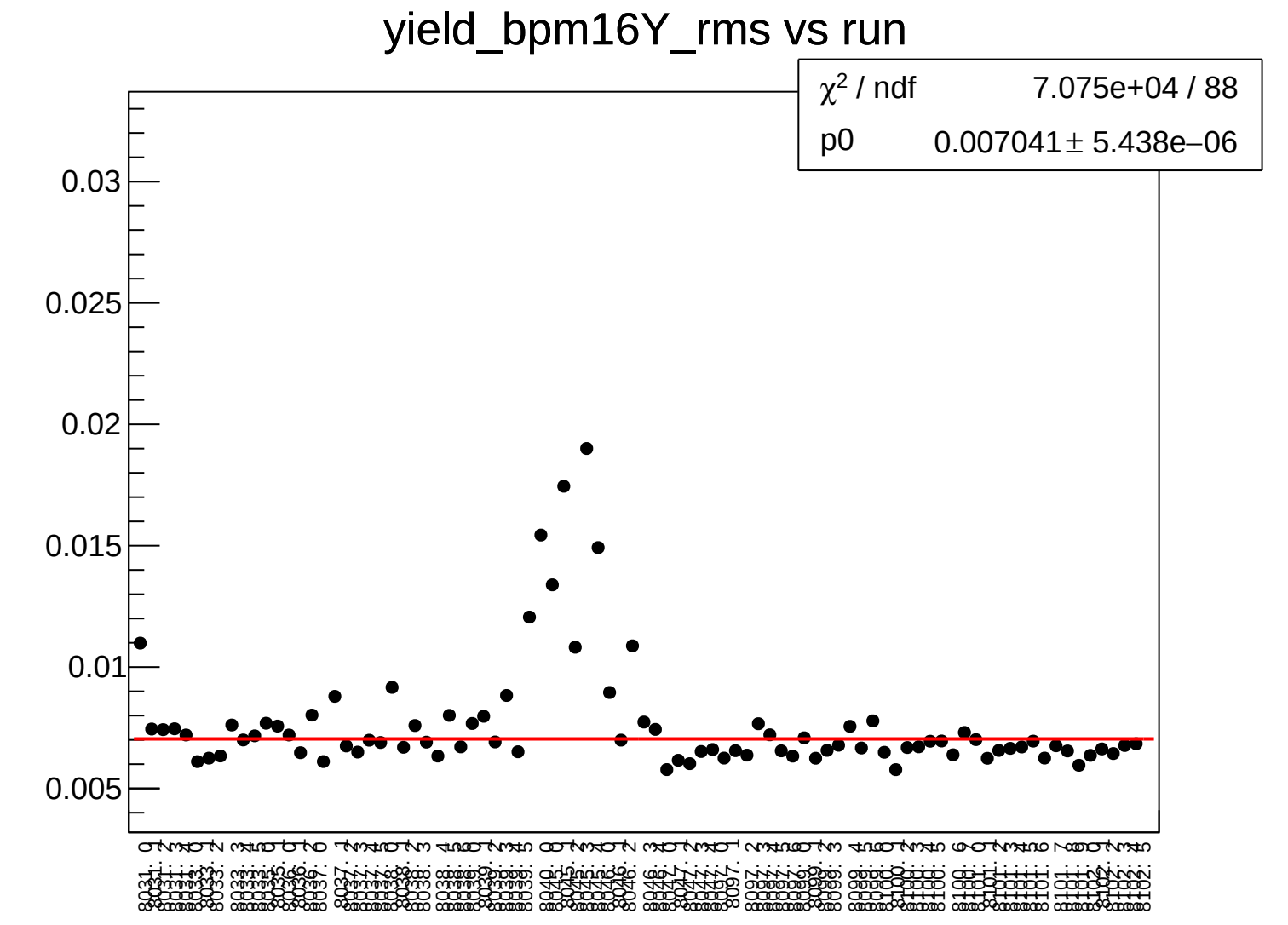

yield_bpm12Y_rms vs run
χ² / ndf 4.882e+04 / 88
p0 0.005129 ± 3.936e−06
0.025
0.02
0.015
0.01
0.005

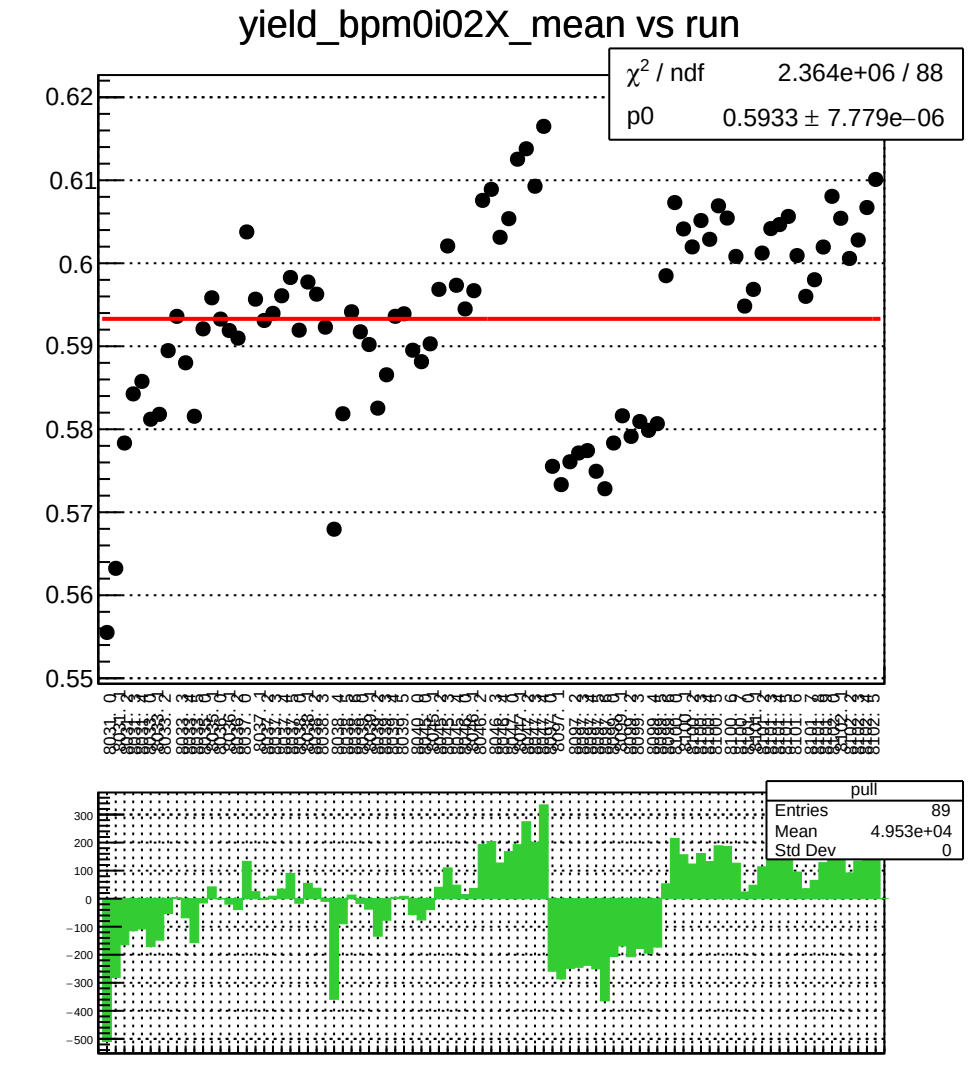

yield_bpm16X_mean vs run
χ² / ndf 5.441e+08 / 88
p0 −0.4164 ± 5.219e−05
pull
Entries 89
Mean −3195
Std Dev 0

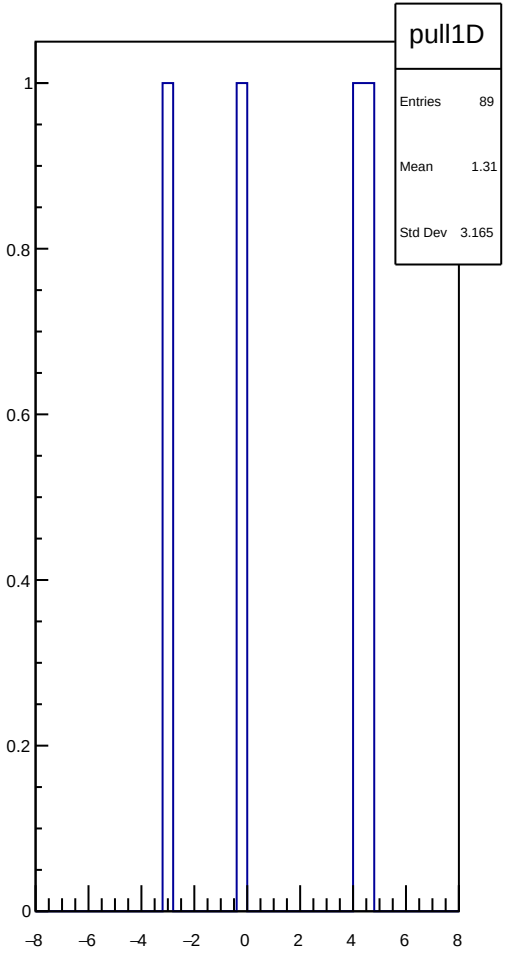

pull1D
Entries 89
Mean 0
Std Dev 0

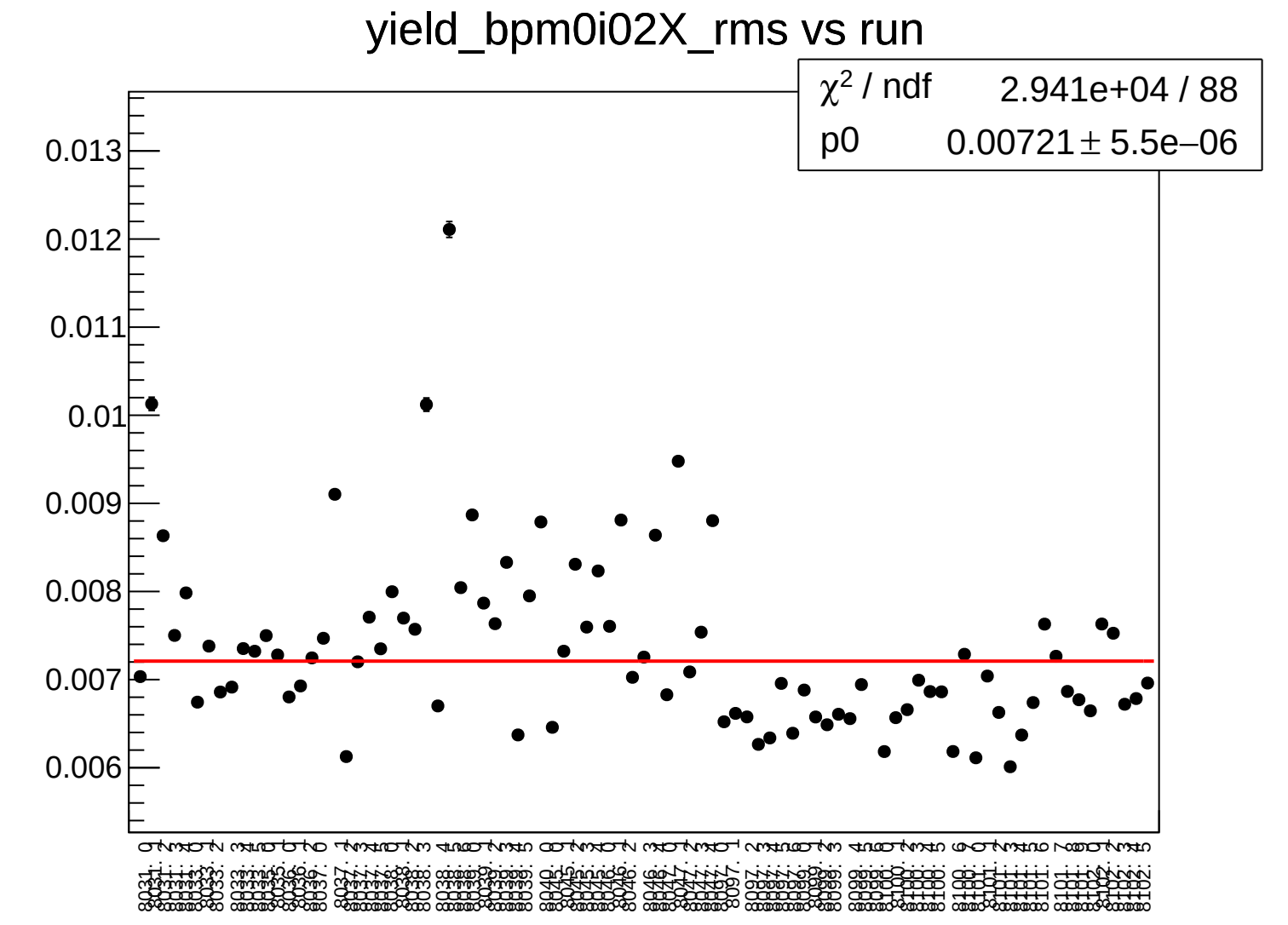

yield_bpm16X_rms vs run
χ² / ndf 7.8e+04 / 88
p0 0.04769 ± 3.691e–05
0.16
0.14
0.12
0.1
0.08
0.06
0.04

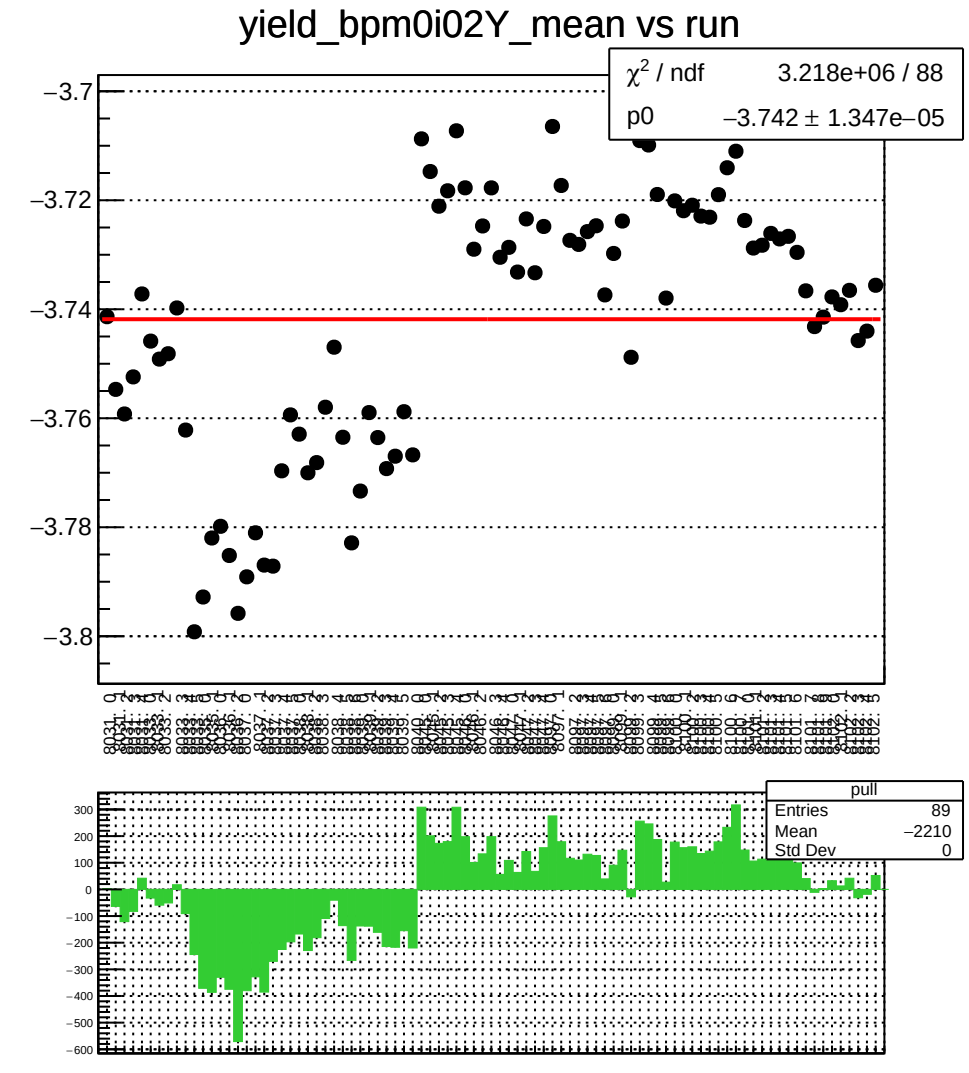

yield_bpm16Y_mean vs run
χ² / ndf 4.867e+08 / 88
p0 −0.5731± 7.69e−06
−0.35
−0.4
−0.45
−0.5
−0.55
−0.6
−0.65
−0.7
−0.75
pull
Entries 89
Mean −758.9
Std Dev 0
3000
2000
1000
0
−1000
−2000
−3000
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

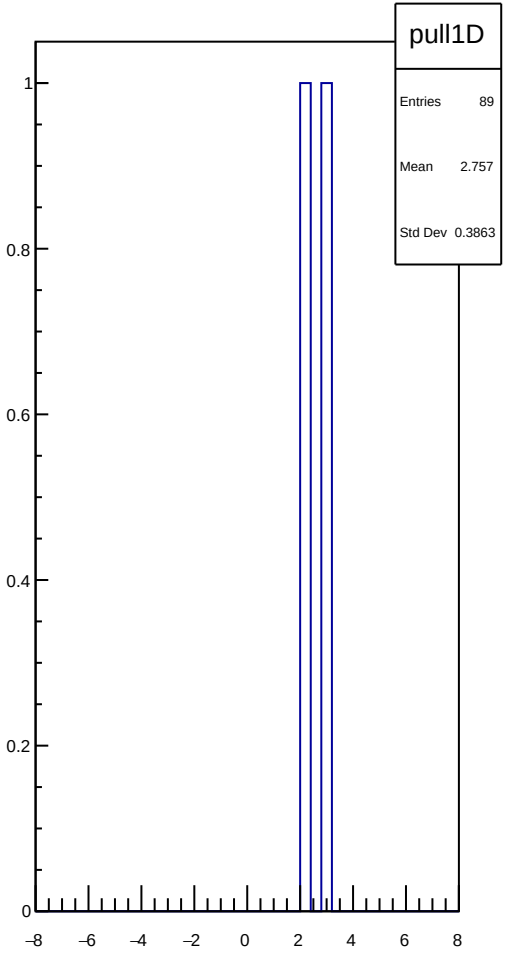

yield_bpm16Y_rms vs run
χ² / ndf 7.075e+04 / 88
p0 0.007041 ± 5.438e−06
0.03
0.025
0.02
0.015
0.01
0.005

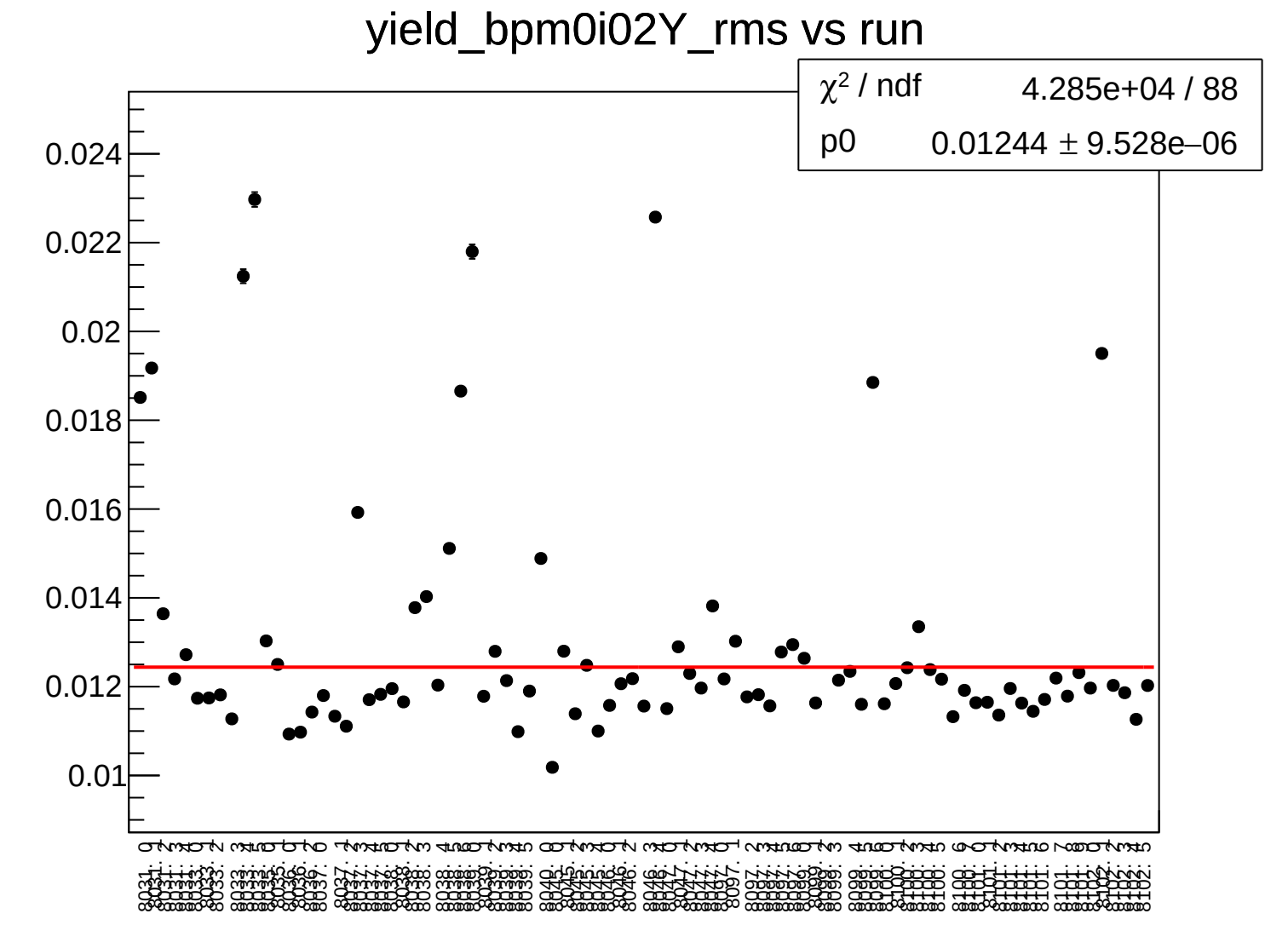

yield_bpm0i02X_mean vs run
χ² / ndf 2.364e+06 / 88
p0 0.5933 ± 7.779e−06
0.62
0.61
0.6
0.59
0.58
0.57
0.56
0.55
pull
Entries 89
Mean 4.953e+04
Std Dev 0
300
200
100
0
−100
−200
−300
−400
−500

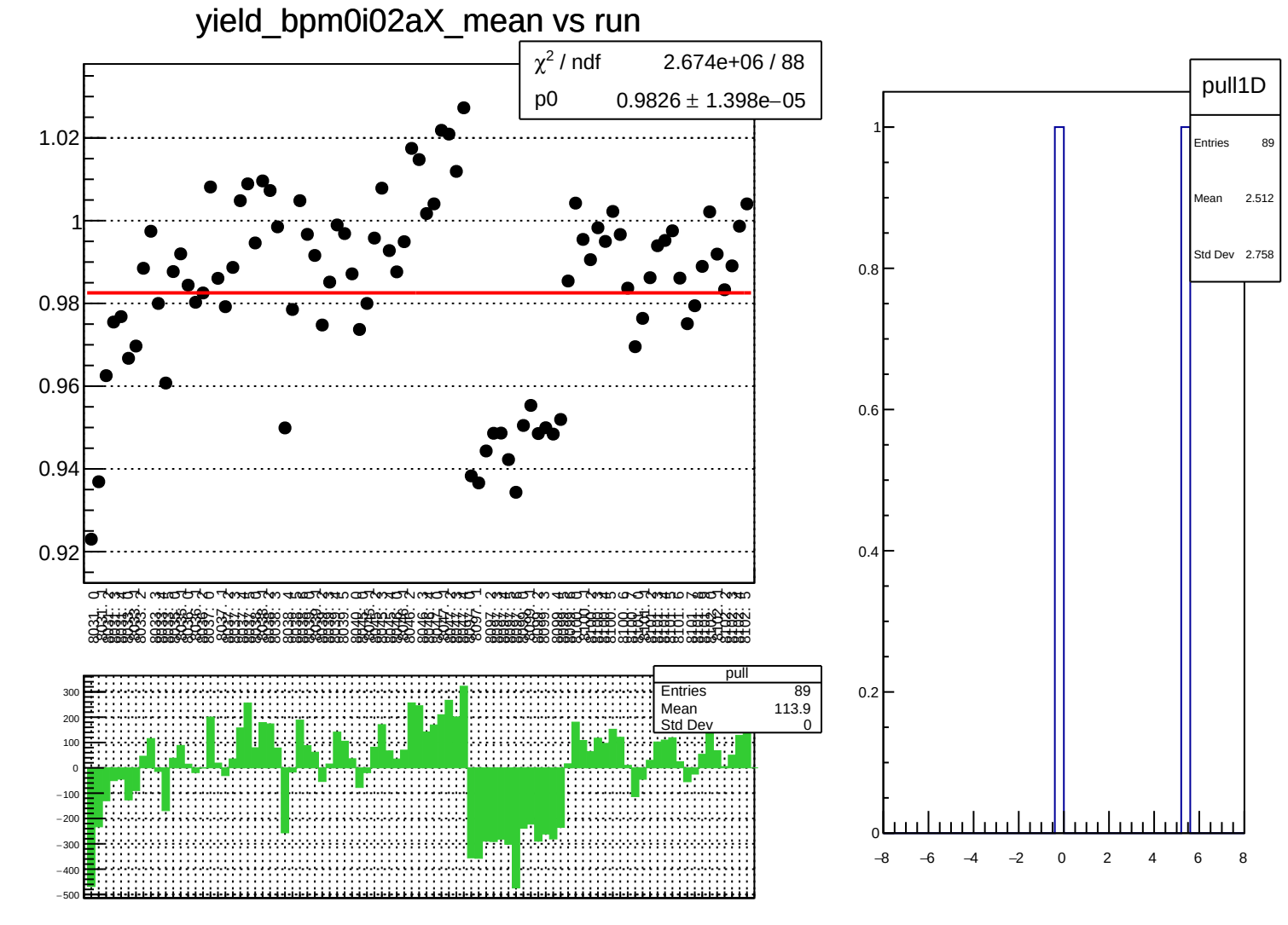

pull1D
Entries 89
Mean 1.31
Std Dev 3.165
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

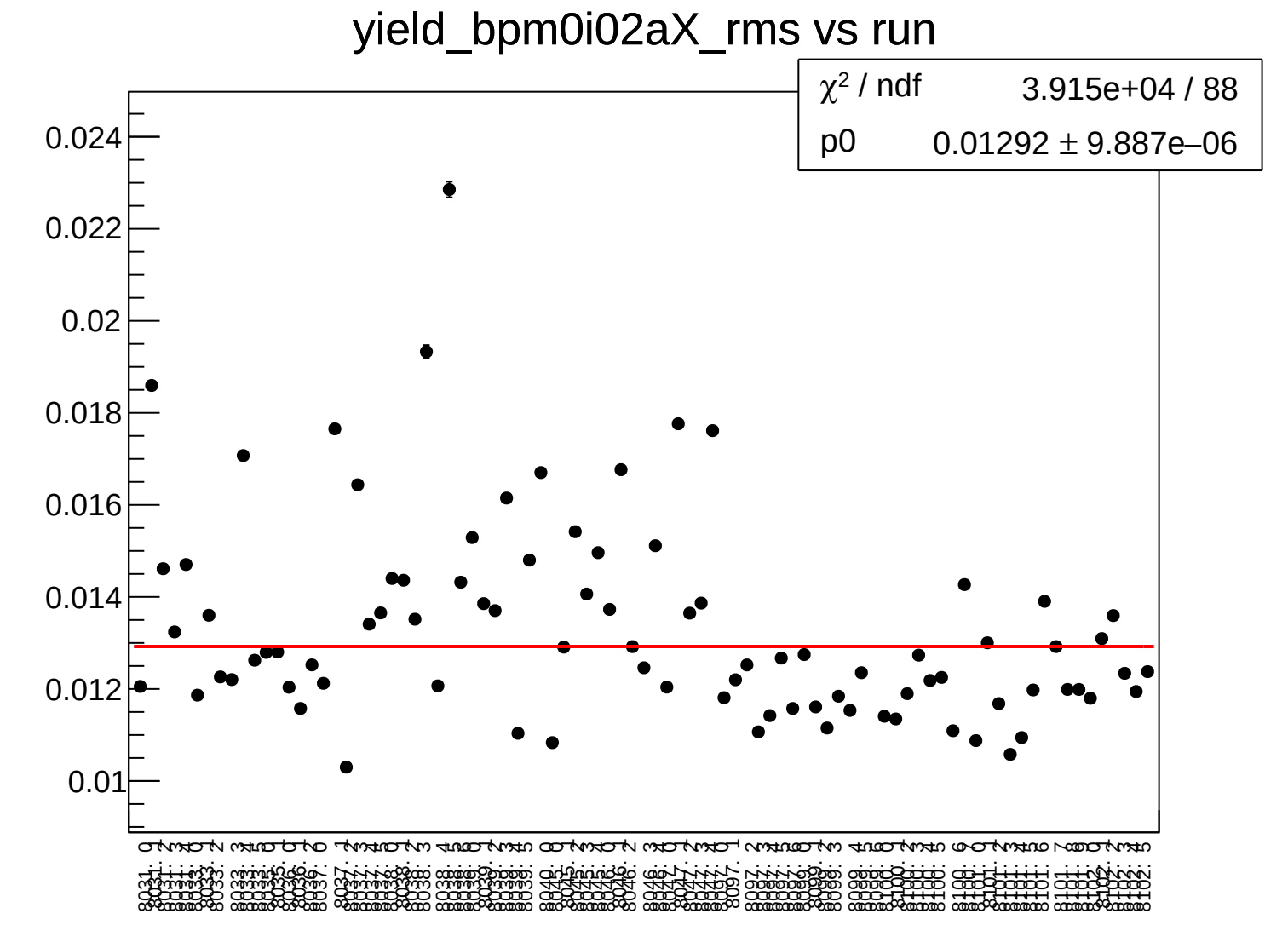

yield_bpm0i02X_rms vs run
$\chi^2$ / ndf 2.941e+04 / 88
p0 0.00721 ± 5.5e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006

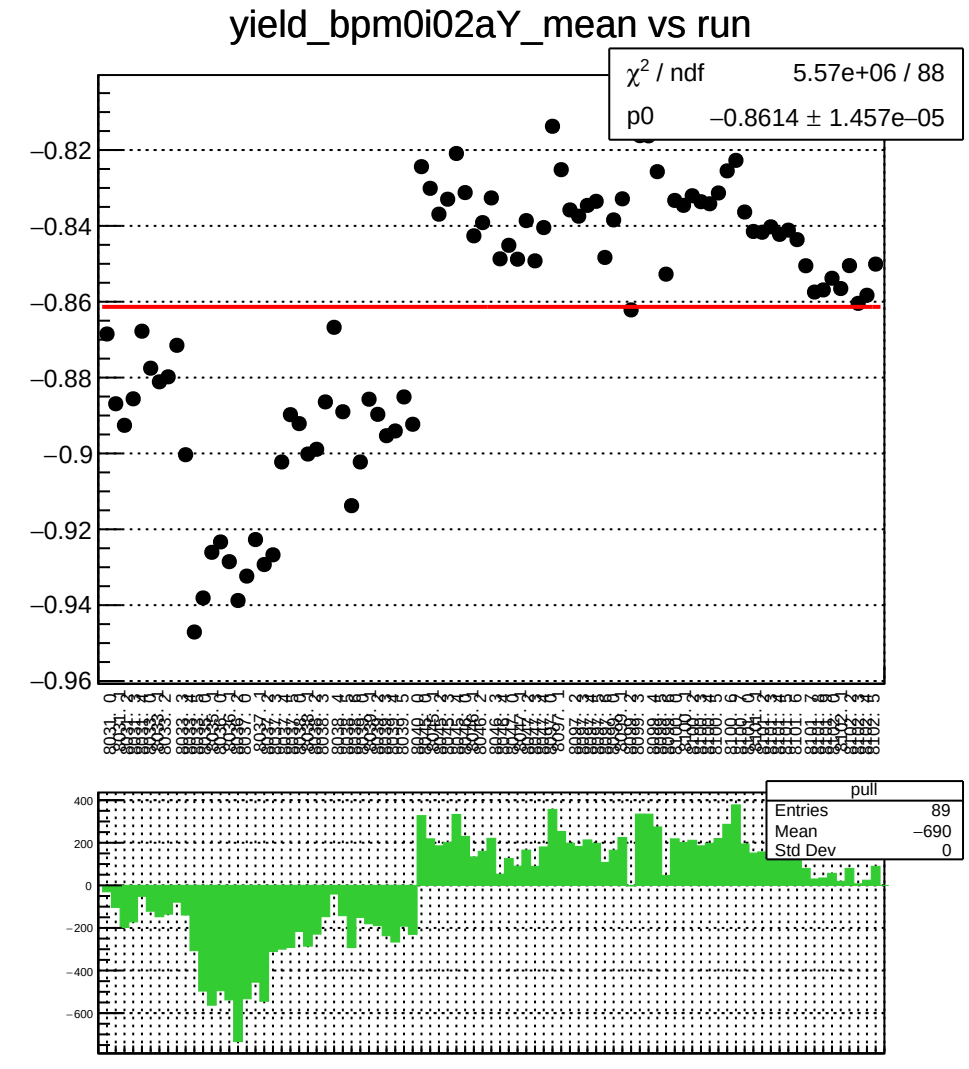

yield_bpm0i02Y_mean vs run
χ² / ndf 3.218e+06 / 88
p0 −3.742 ± 1.347e−05
−3.7
−3.72
−3.74
−3.76
−3.78
−3.8
pull
Entries 89
Mean −2210
Std Dev 0
300
200
100
0
−100
−200
−300
−400
−500
−600

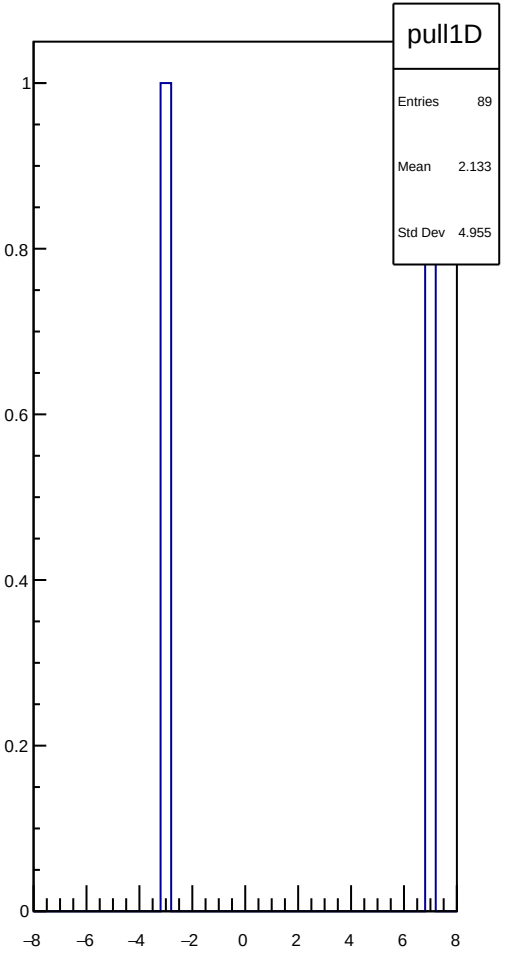

pull1D
Entries 89
Mean 2.757
Std Dev 0.3863
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

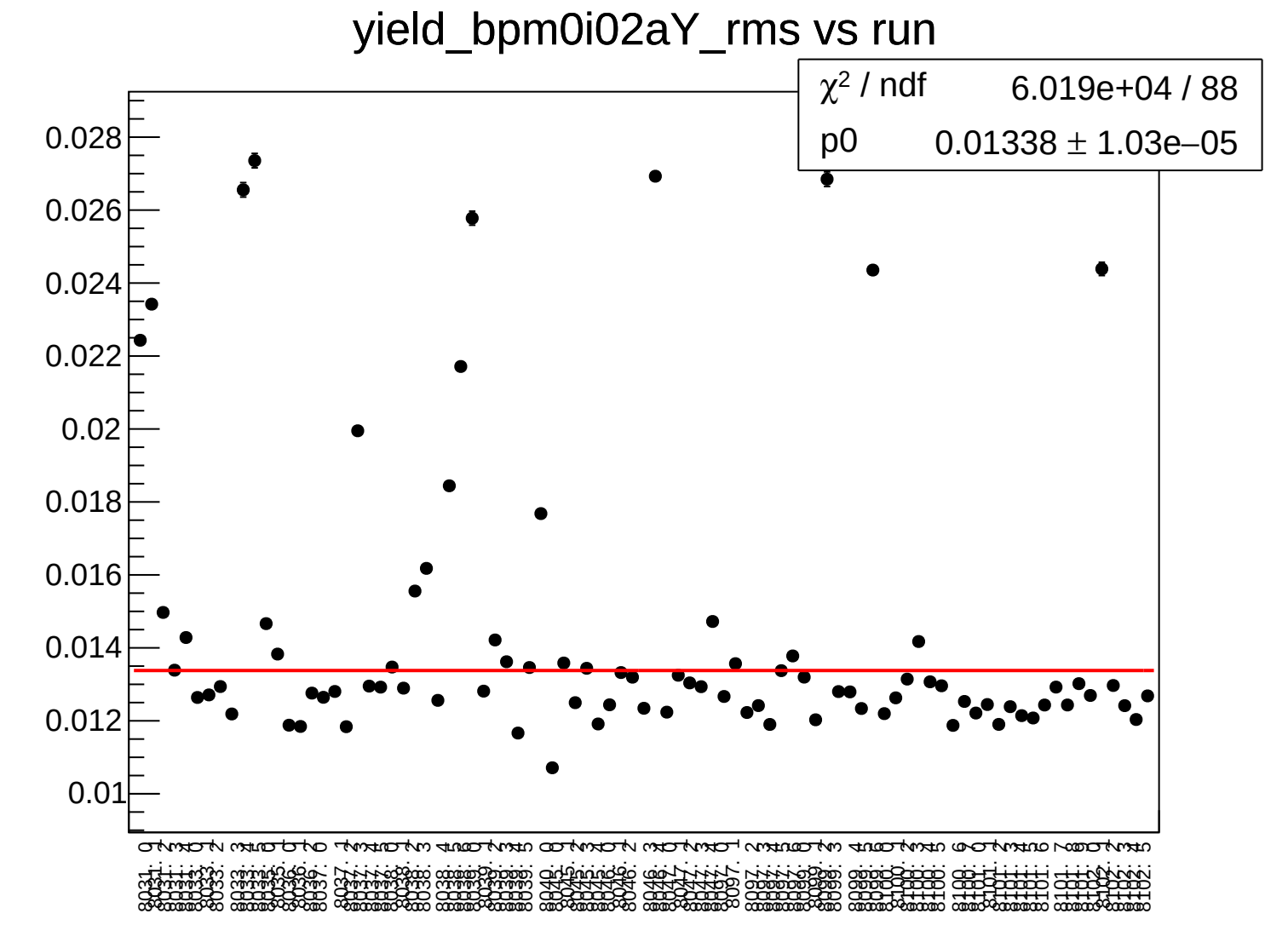

yield_bpm0i02Y_rms vs run
χ² / ndf 4.285e+04 / 88
p0 0.01244 ± 9.528e–06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

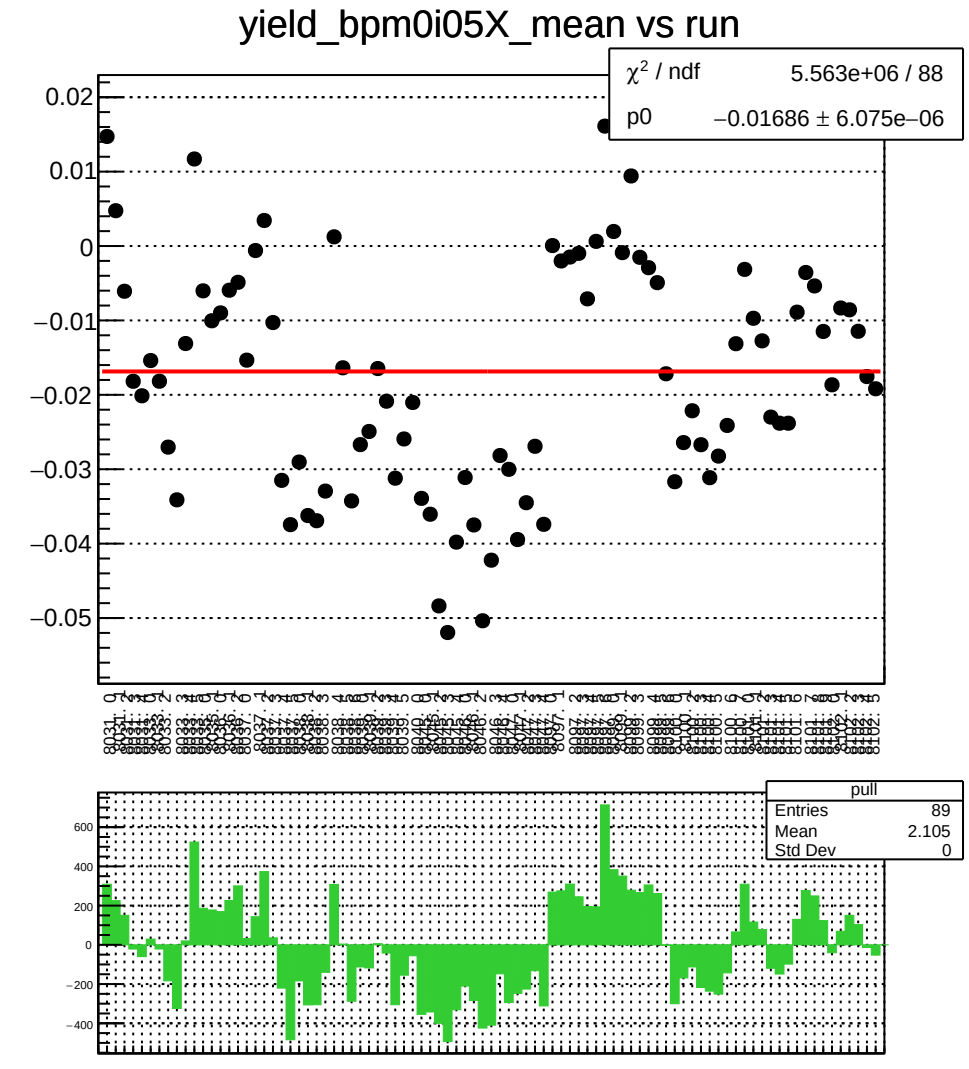

yield_bpm0i02aX_mean vs run
χ² / ndf 2.674e+06 / 88
p0 0.9826 ± 1.398e−05
1.02
1
0.98
0.96
0.94
0.92
pull
Entries 89
Mean 113.9
Std Dev 0
300
200
100
0
−100
−200
−300
−400
−500
pull1D
Entries 89
Mean 2.512
Std Dev 2.758
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

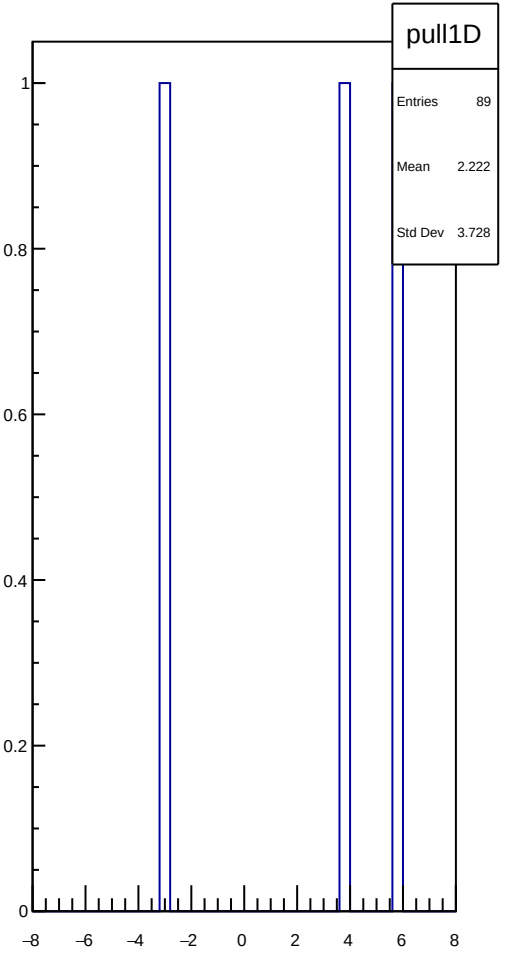

yield_bpm0i02aX_rms vs run
χ² / ndf 3.915e+04 / 88
p0 0.01292 ± 9.887e–06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

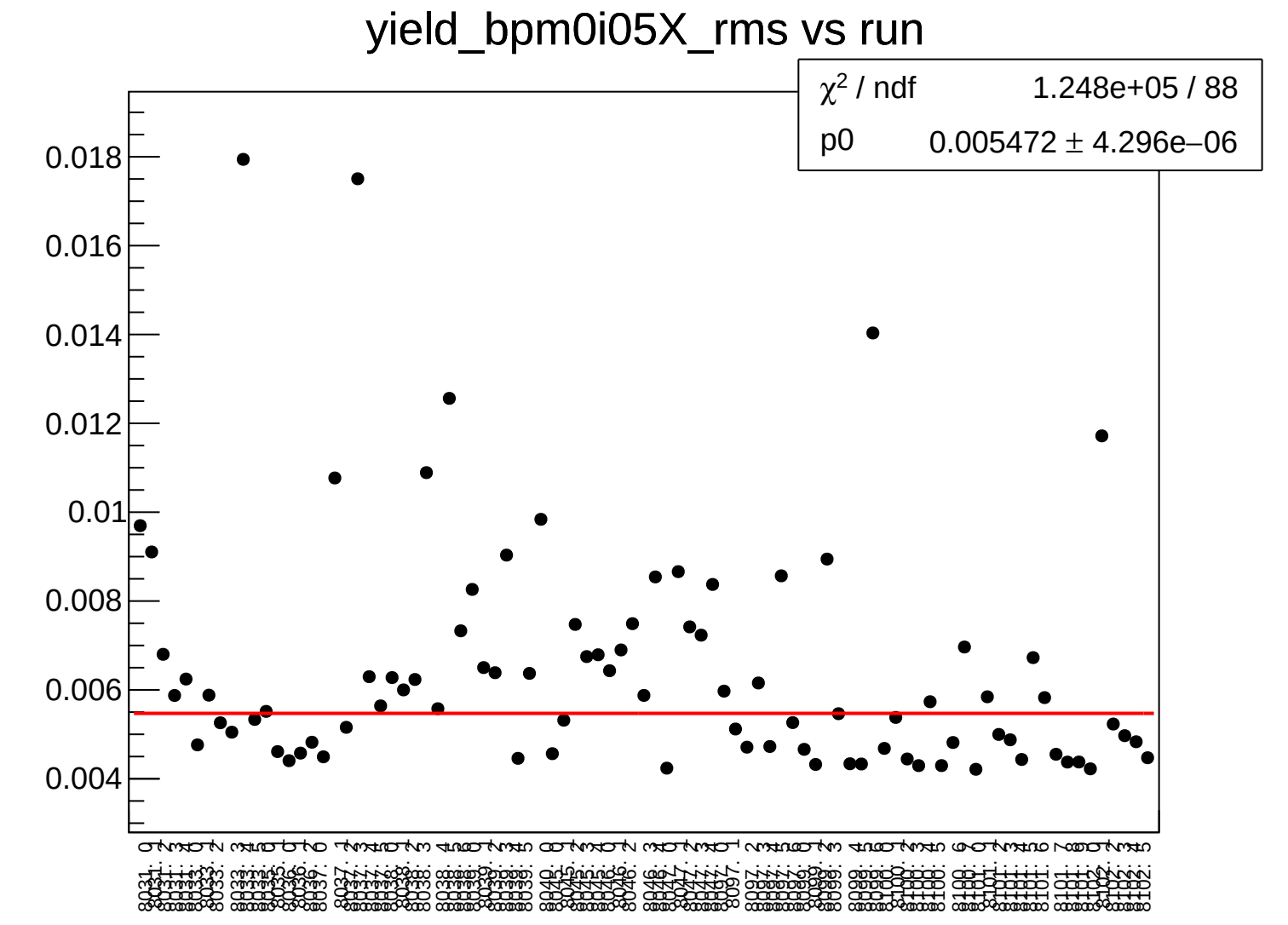

yield_bpm0i02aY_mean vs run
χ² / ndf 5.57e+06 / 88
p0 −0.8614 ± 1.457e−05
−0.82
−0.84
−0.86
−0.88
−0.9
−0.92
−0.94
−0.96
pull
Entries 89
Mean −690
Std Dev 0
400
200
0
−200
−400
−600

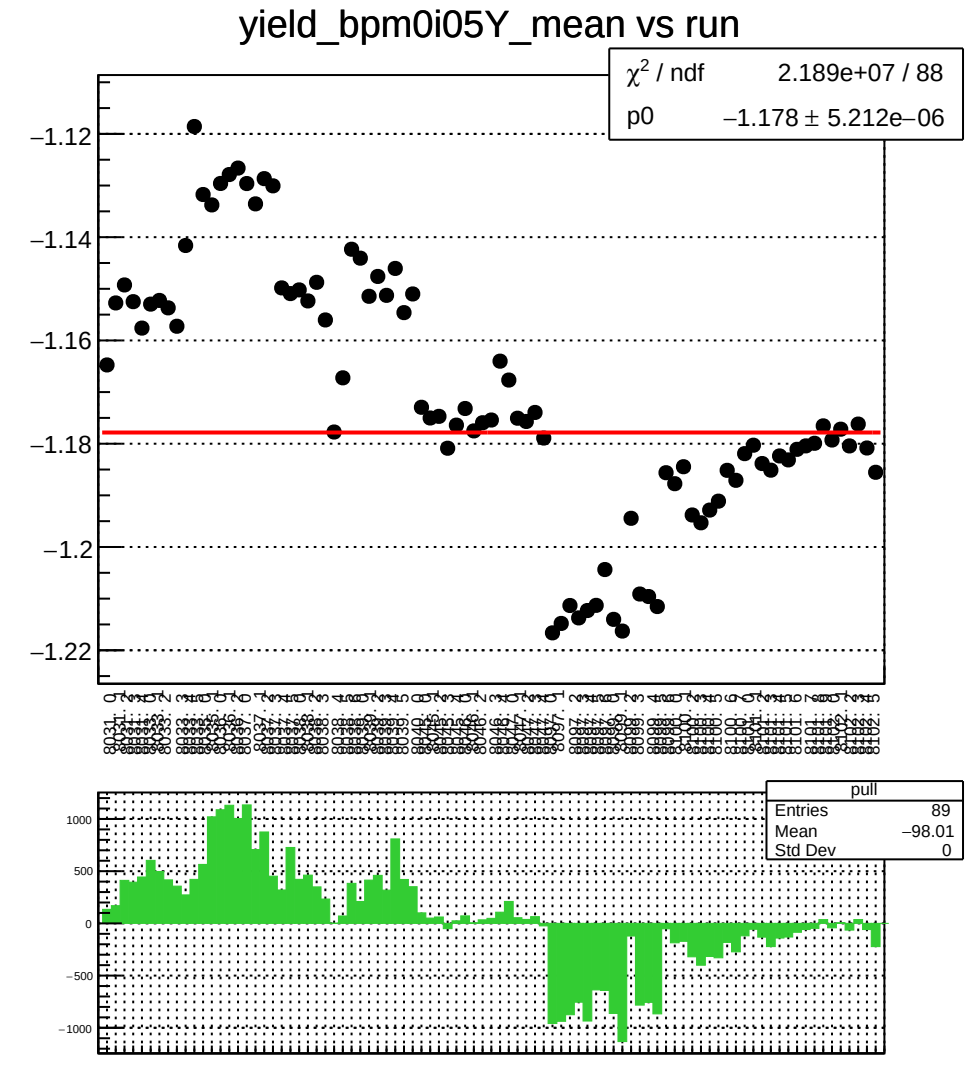

pull1D
Entries 89
Mean 2.133
Std Dev 4.955
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

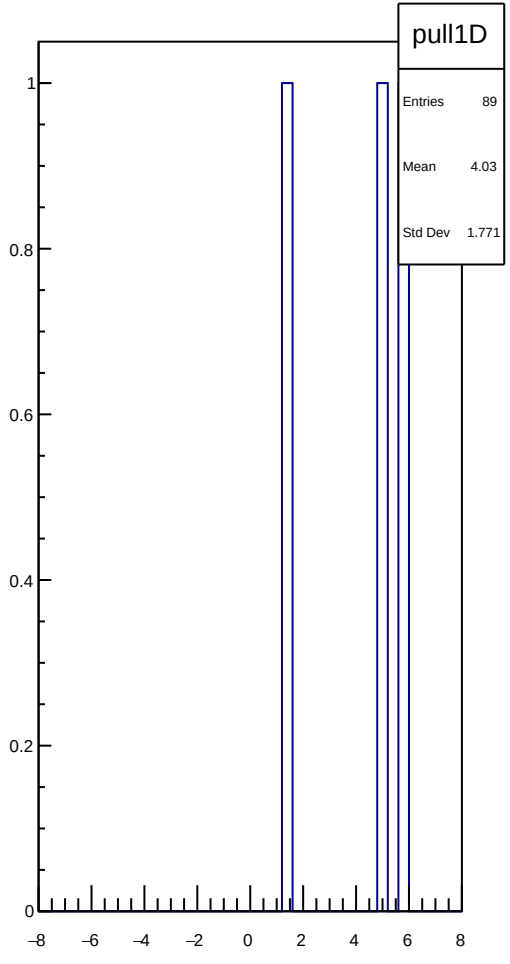

yield_bpm0i02aY_rms vs run
χ² / ndf 6.019e+04 / 88
p0 0.01338 ± 1.03e−05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

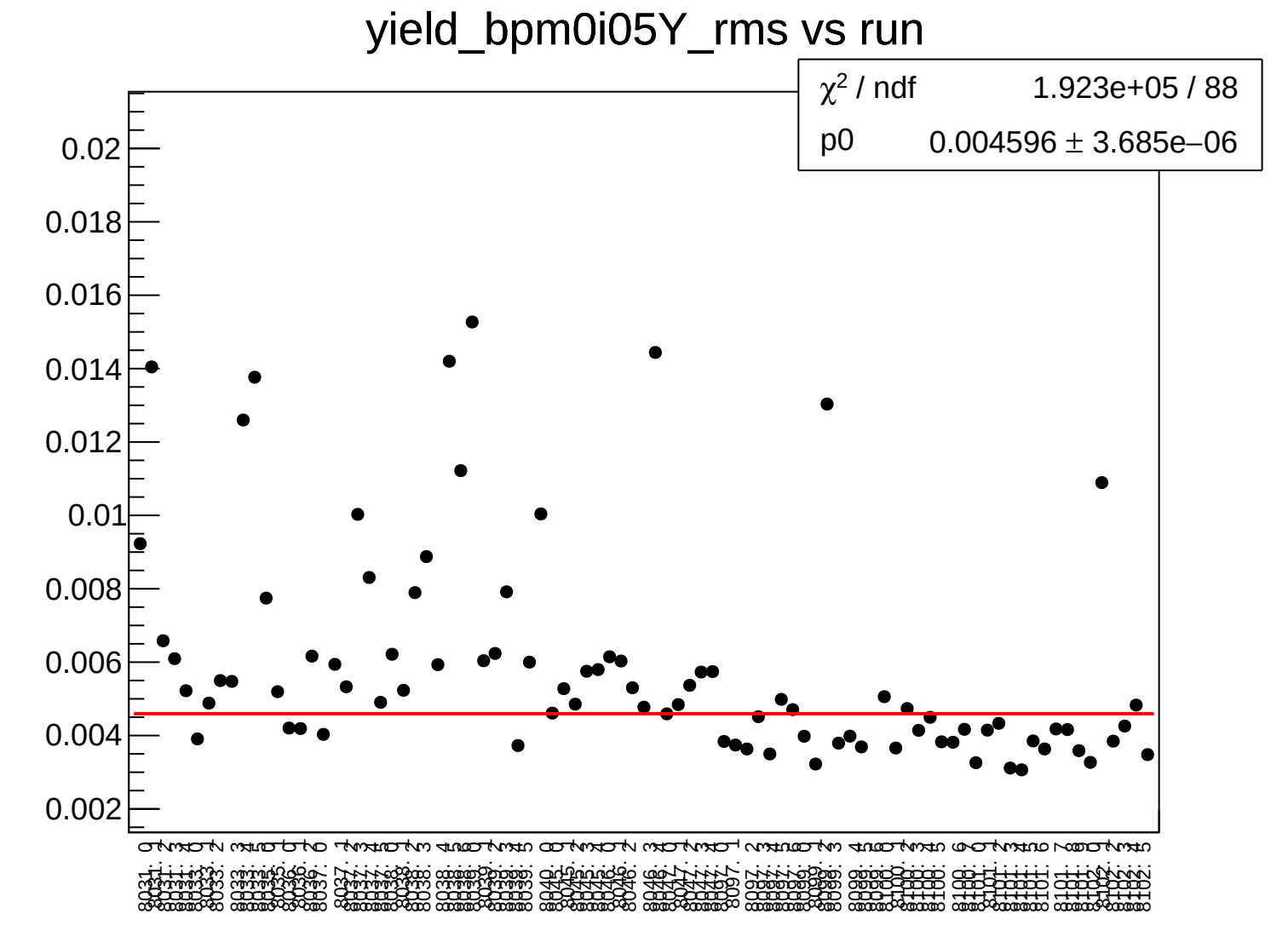

yield_bpm0i05X_mean vs run
χ² / ndf 5.563e+06 / 88
p0 −0.01686 ± 6.075e−06
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
−0.05
pull
Entries 89
Mean 2.105
Std Dev 0
600
400
200
0
−200
−400

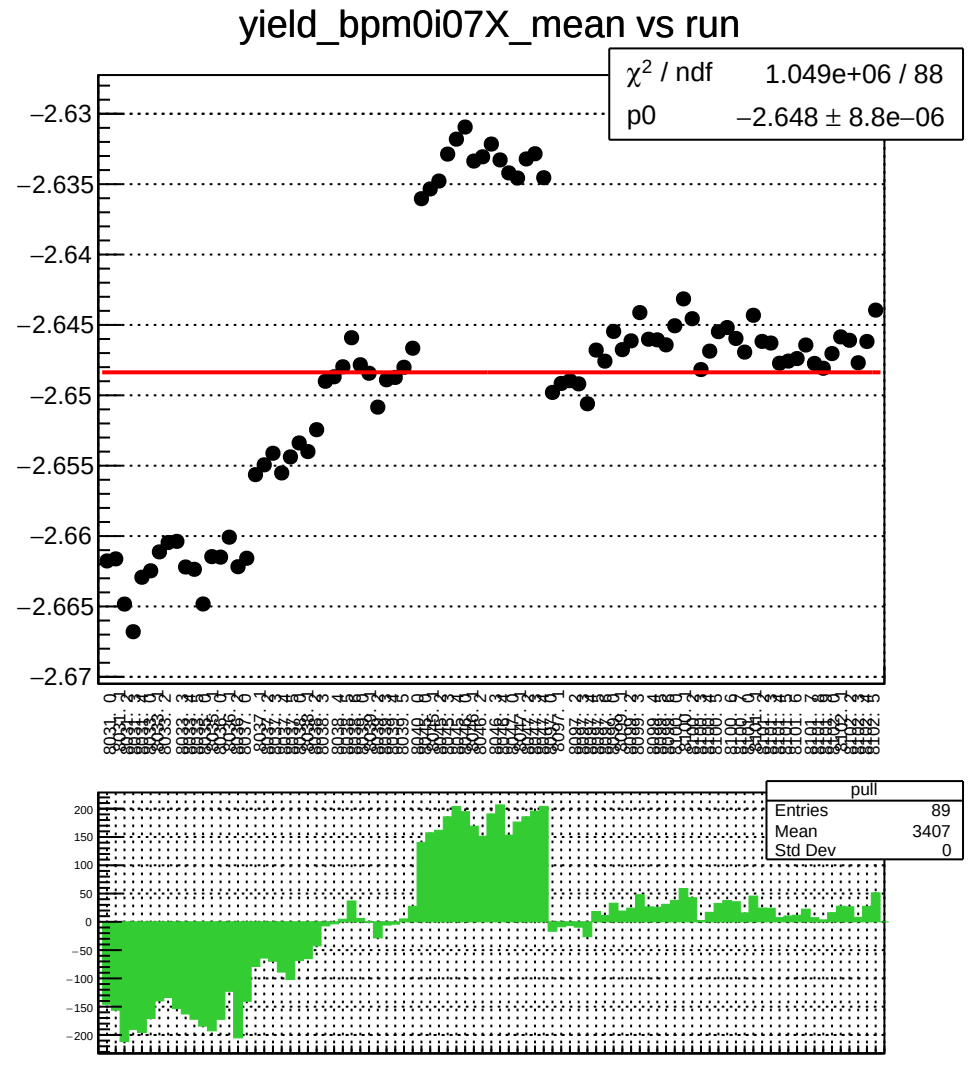

pull1D
Entries 89
Mean 2.222
Std Dev 3.728
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

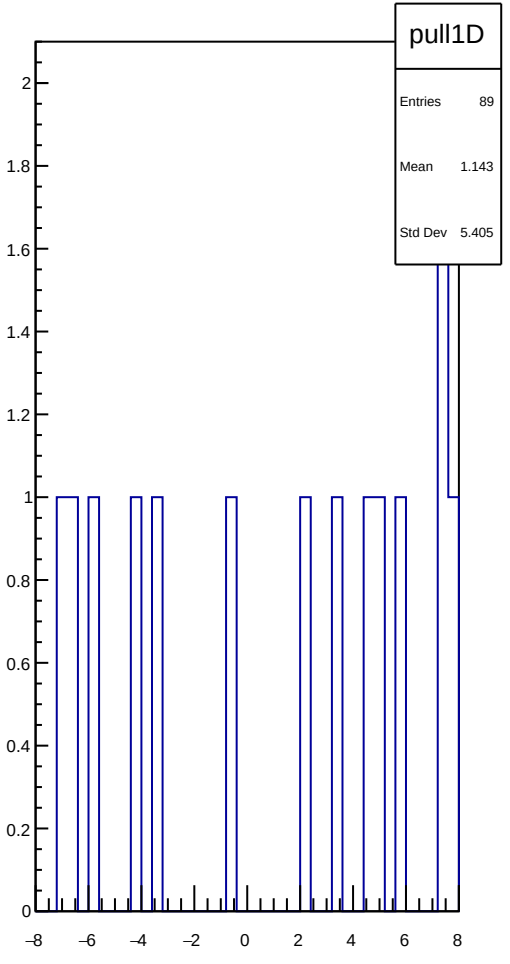

yield_bpm0i05X_rms vs run
χ² / ndf 1.248e+05 / 88
p0 0.005472 ± 4.296e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

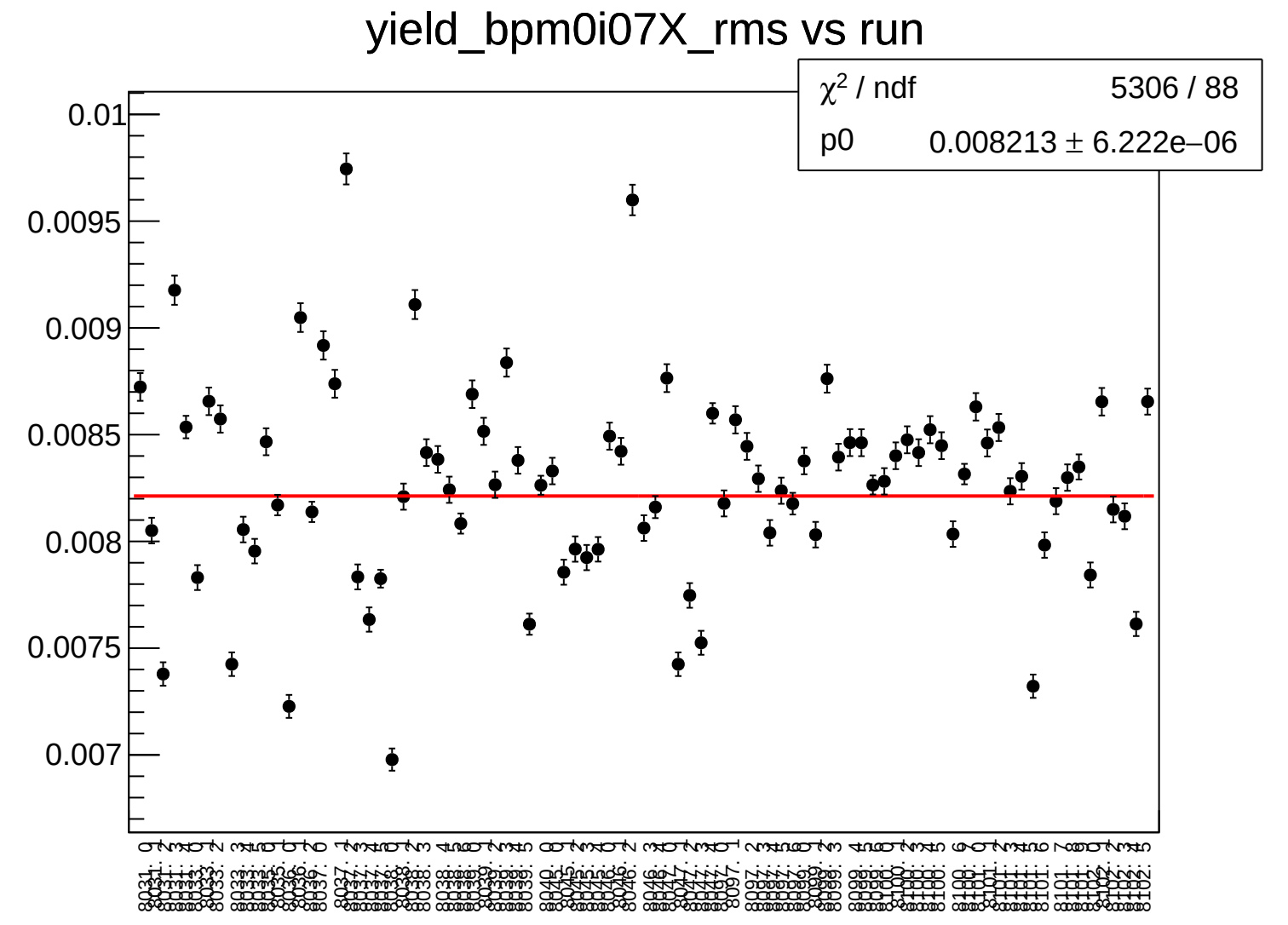

yield_bpm0i05Y_mean vs run
χ² / ndf 2.189e+07 / 88
p0 −1.178 ± 5.212e−06
−1.12
−1.14
−1.16
−1.18
−1.2
−1.22
pull
Entries 89
Mean −98.01
Std Dev 0
1000
500
0
−500
−1000

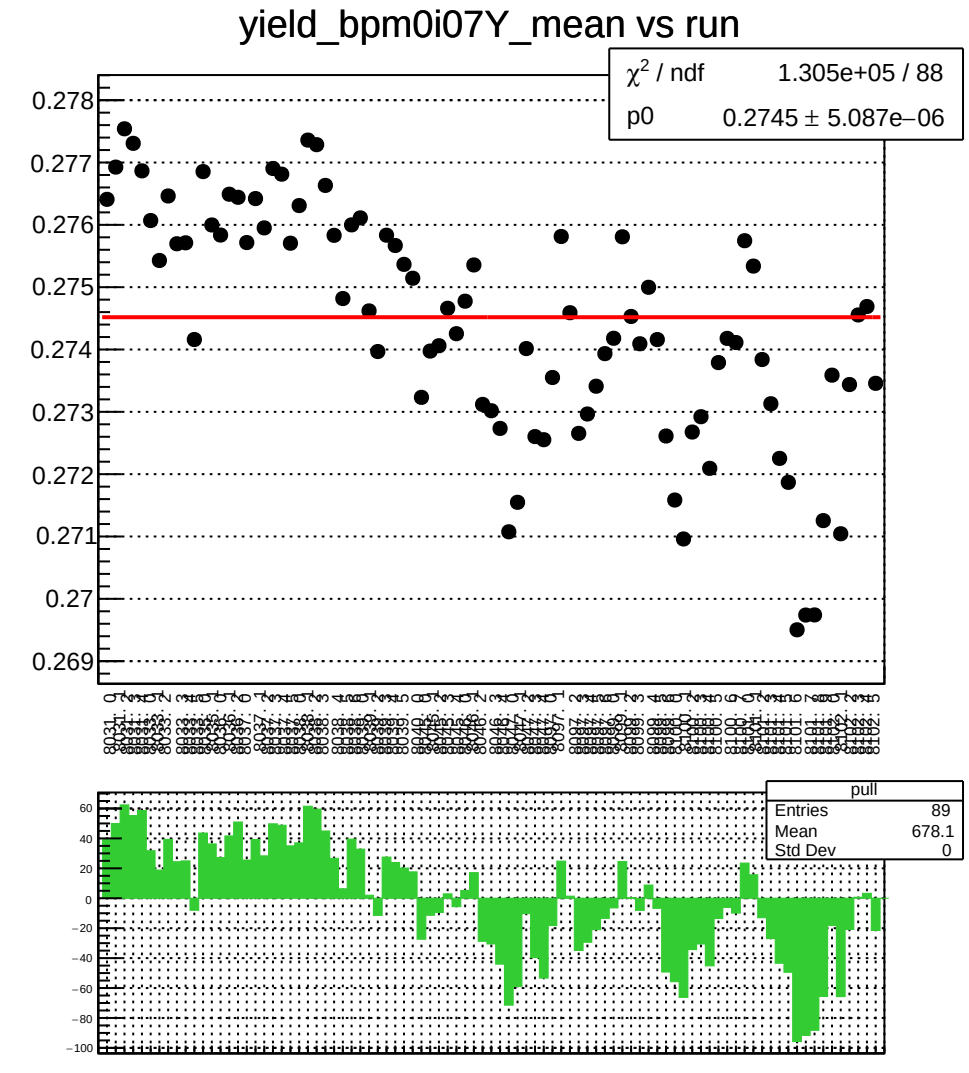

pull1D
Entries 89
Mean 4.03
Std Dev 1.771
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

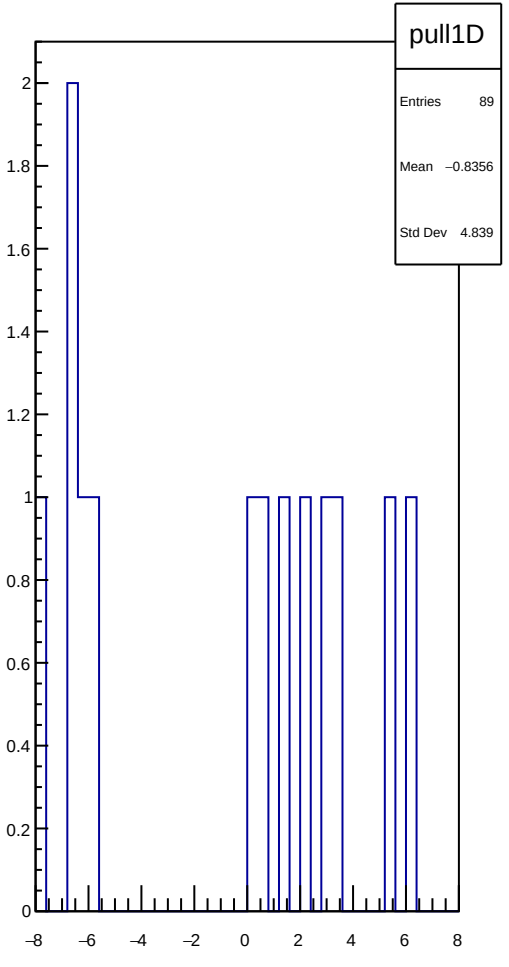

yield_bpm0i05Y_rms vs run
χ² / ndf 1.923e+05 / 88
p0 0.004596 ± 3.685e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

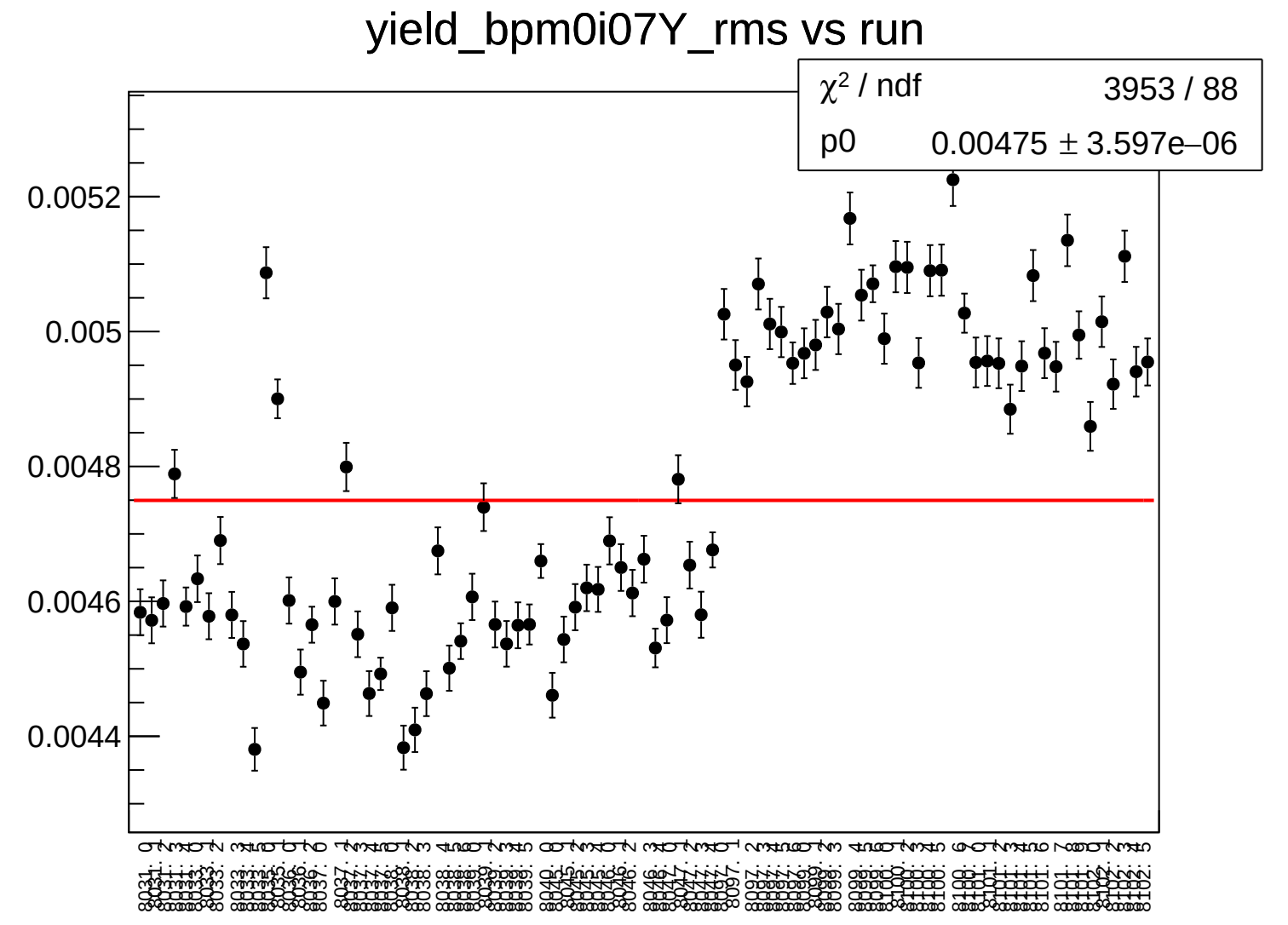

yield_bpm0i07X_mean vs run
χ² / ndf 1.049e+06 / 88
p0 −2.648 ± 8.8e−06
−2.63
−2.635
−2.64
−2.645
−2.65
−2.655
−2.66
−2.665
−2.67
pull
Entries 89
Mean 3407
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

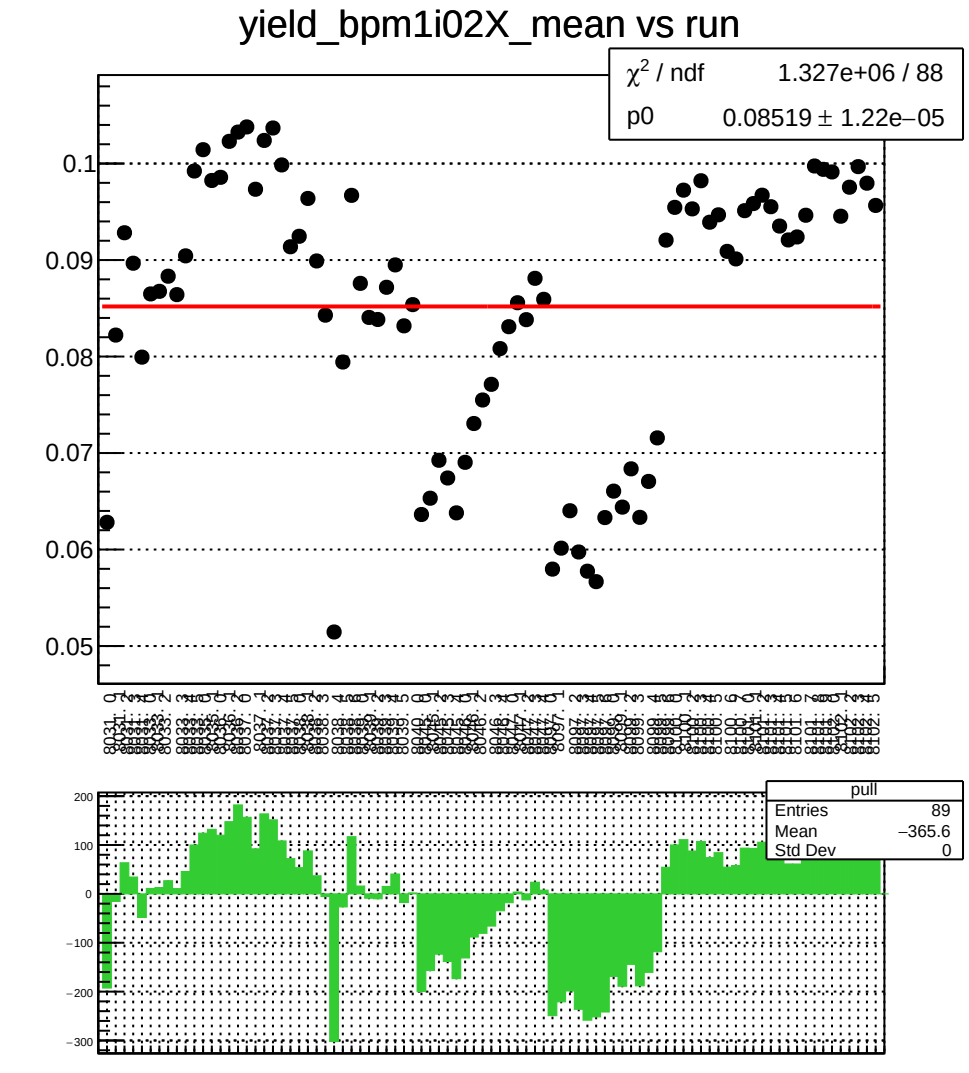

pull1D
Entries 89
Mean 1.143
Std Dev 5.405
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

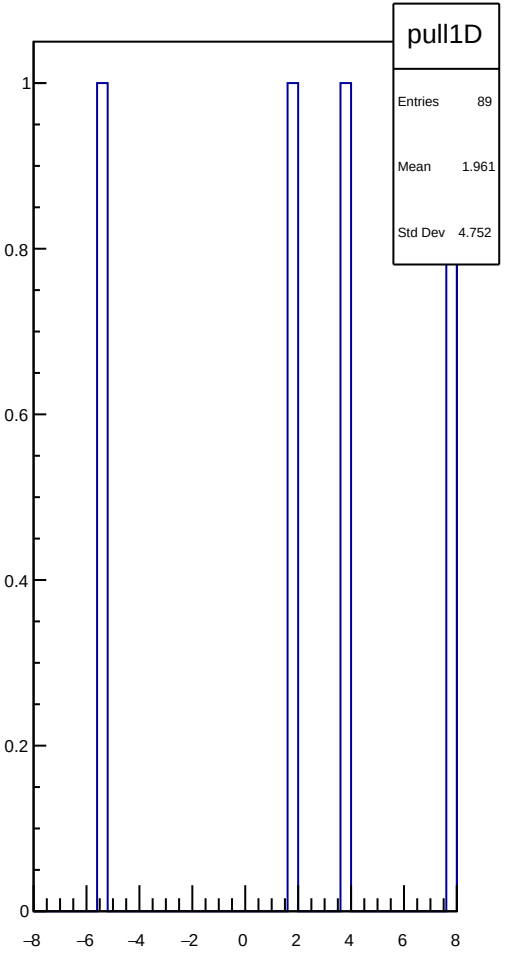

yield_bpm0i07X_rms vs run
$\chi^2$ / ndf 5306 / 88
p0 0.008213 ± 6.222e−06
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007

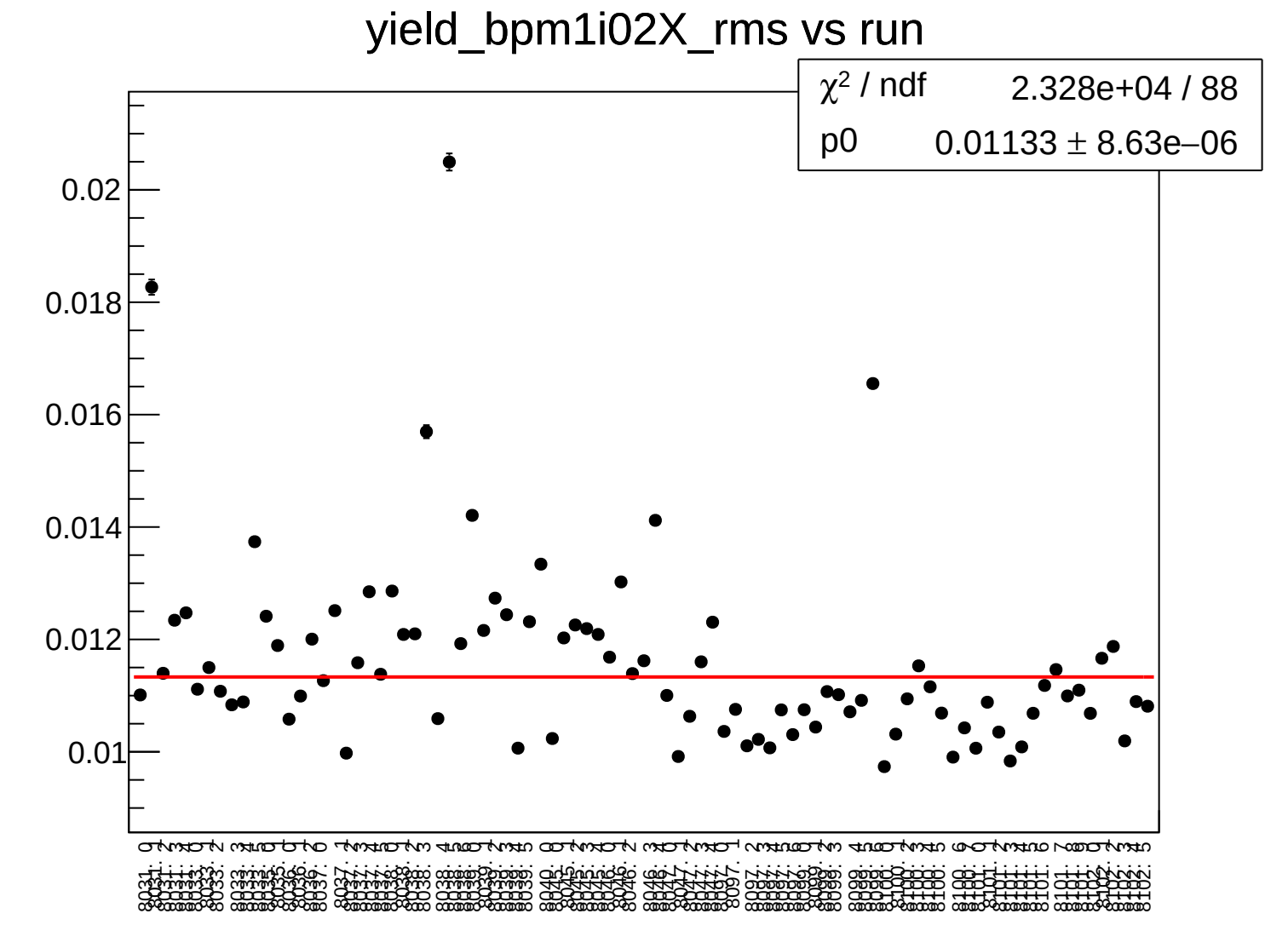

yield_bpm0i07Y_mean vs run
χ² / ndf 1.305e+05 / 88
p0 0.2745 ± 5.087e−06
0.278
0.277
0.276
0.275
0.274
0.273
0.272
0.271
0.27
0.269
pull
Entries 89
Mean 678.1
Std Dev 0
60
40
20
0
−20
−40
−60
−80
−100

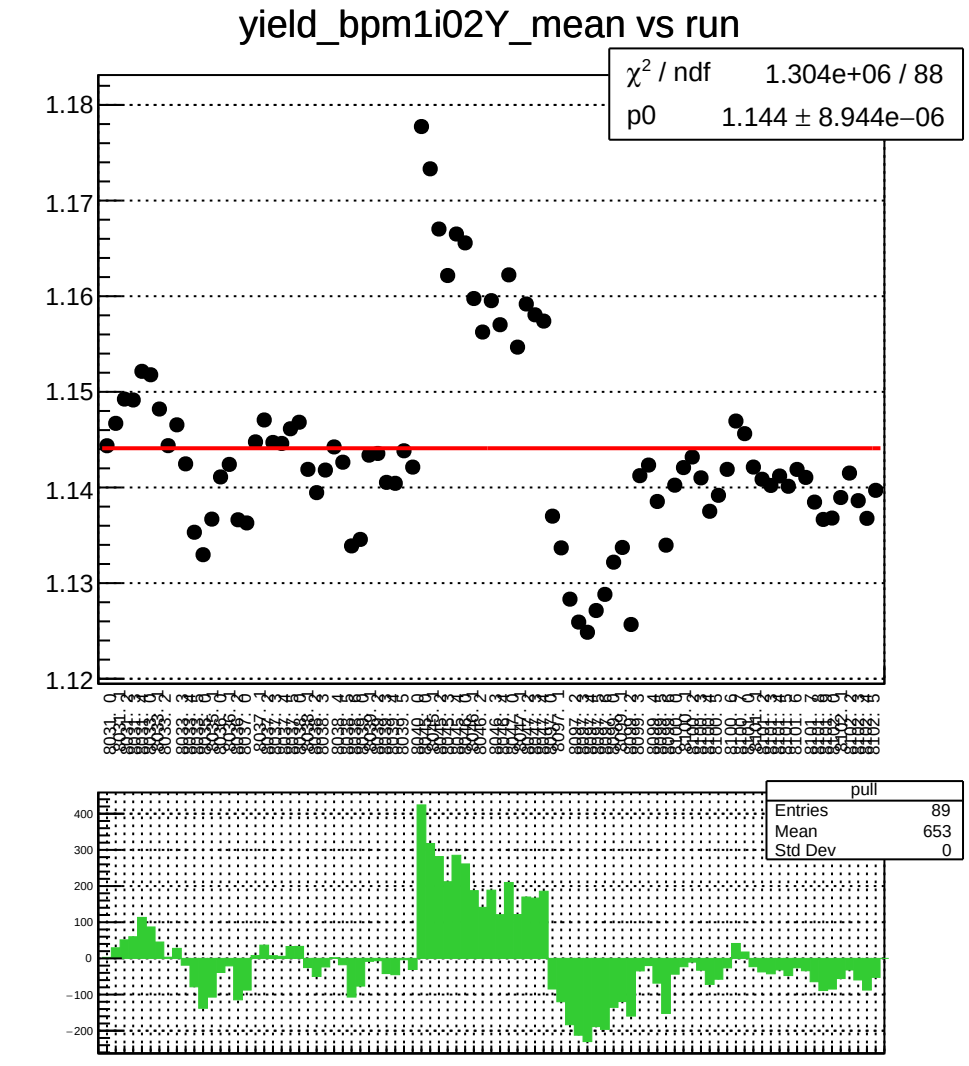

pull1D
Entries 89
Mean −0.8356
Std Dev 4.839
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

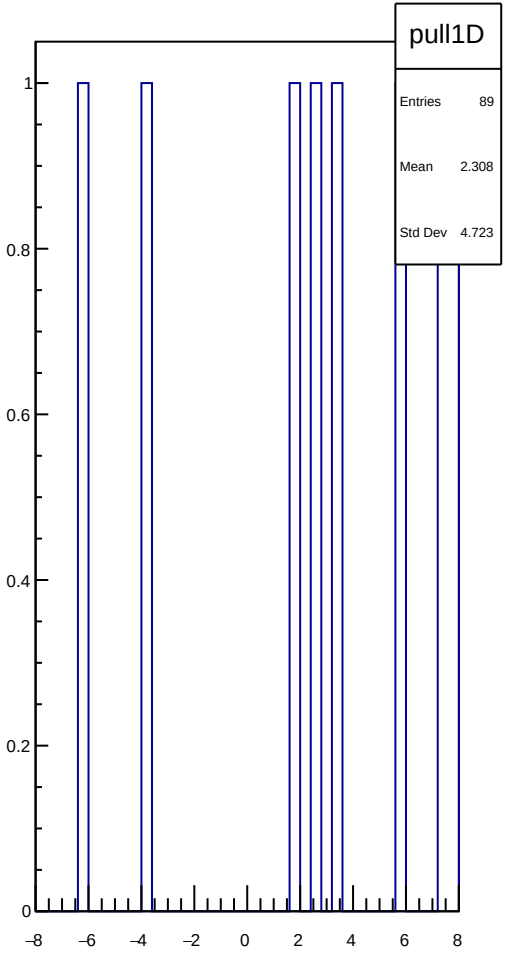

yield_bpm0i07Y_rms vs run
χ² / ndf 3953 / 88
p0 0.00475 ± 3.597e–06
0.0052
0.005
0.0048
0.0046
0.0044

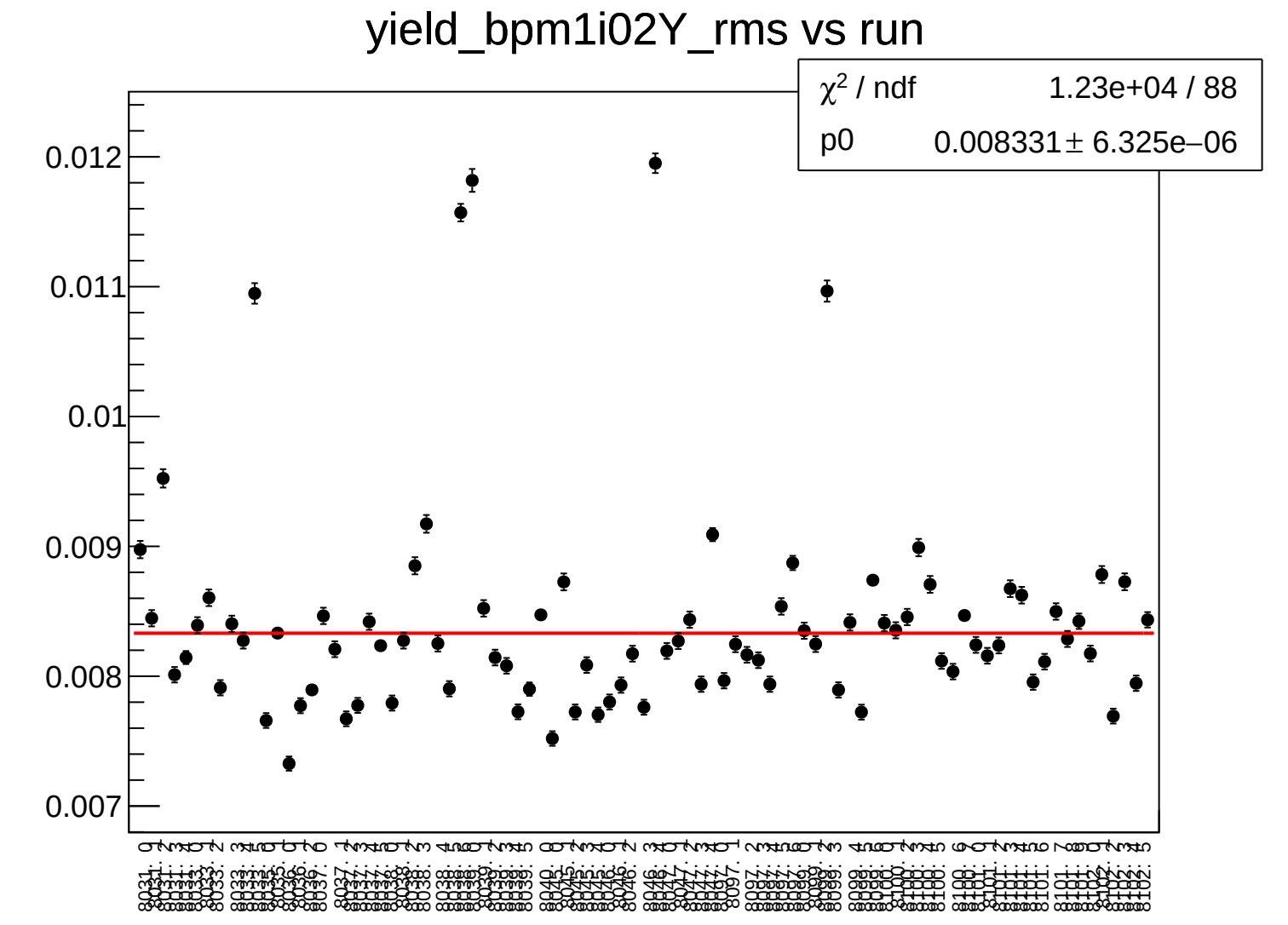

yield_bpm1i02X_mean vs run
χ² / ndf 1.327e+06 / 88
p0 0.08519 ± 1.22e−05
0.1
0.09
0.08
0.07
0.06
0.05
pull
Entries 89
Mean −365.6
Std Dev 0
200
100
0
−100
−200
−300

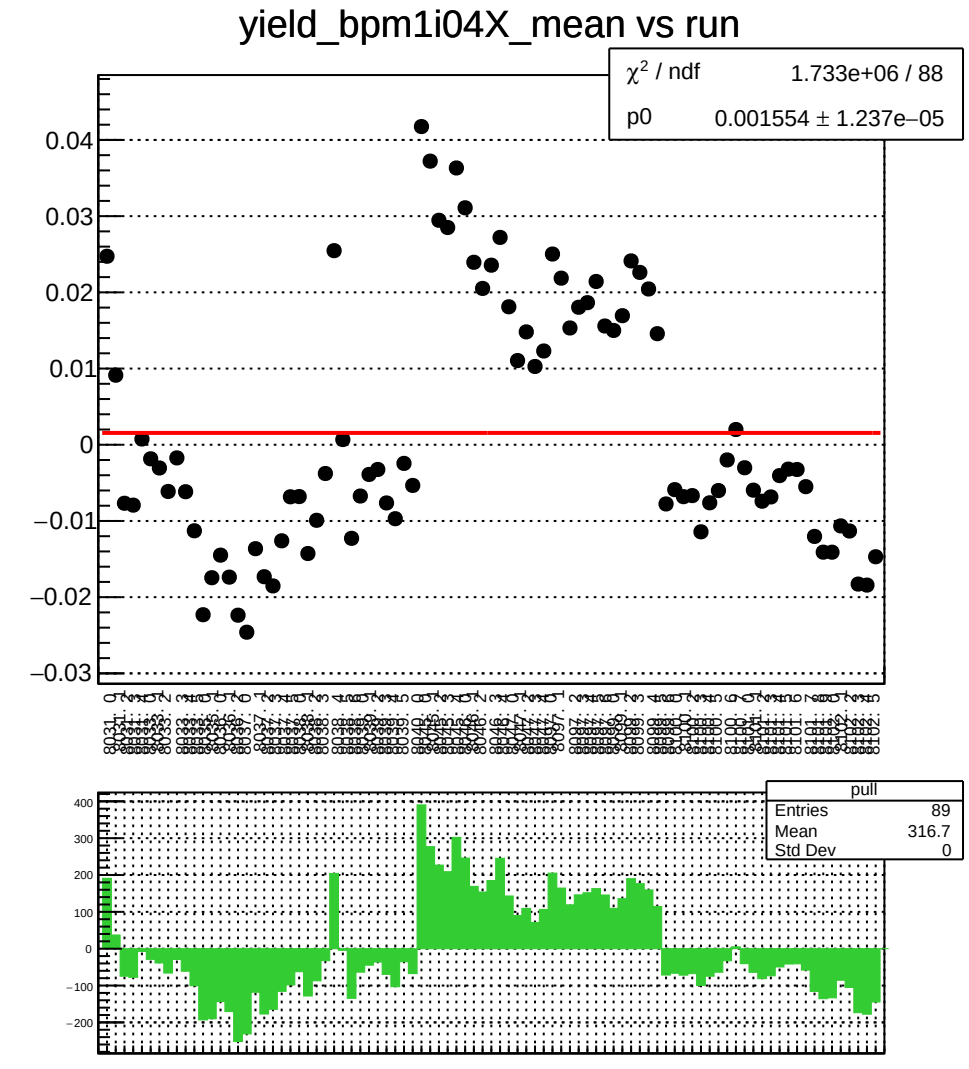

pull1D
Entries 89
Mean 1.961
Std Dev 4.752
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

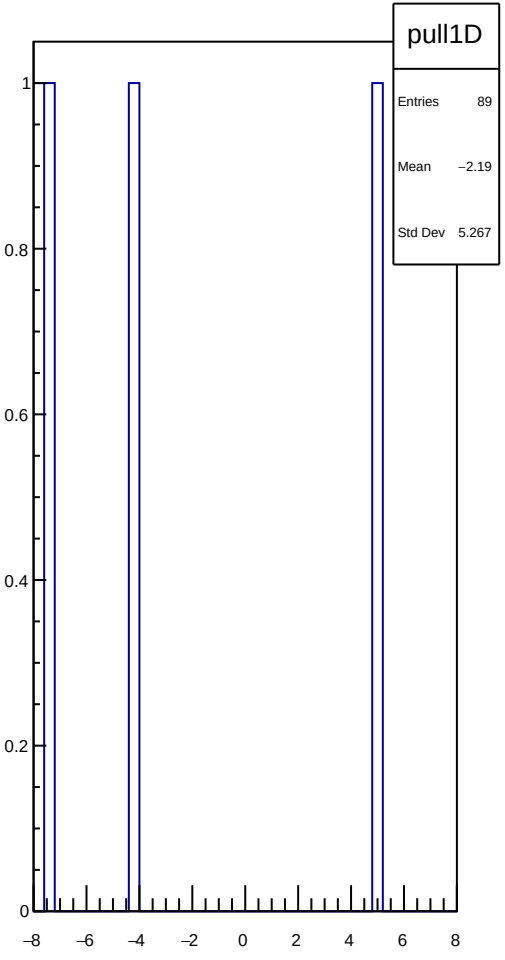

yield_bpm1i02X_rms vs run
χ² / ndf 2.328e+04 / 88
p0 0.01133 ± 8.63e−06
0.02
0.018
0.016
0.014
0.012
0.01

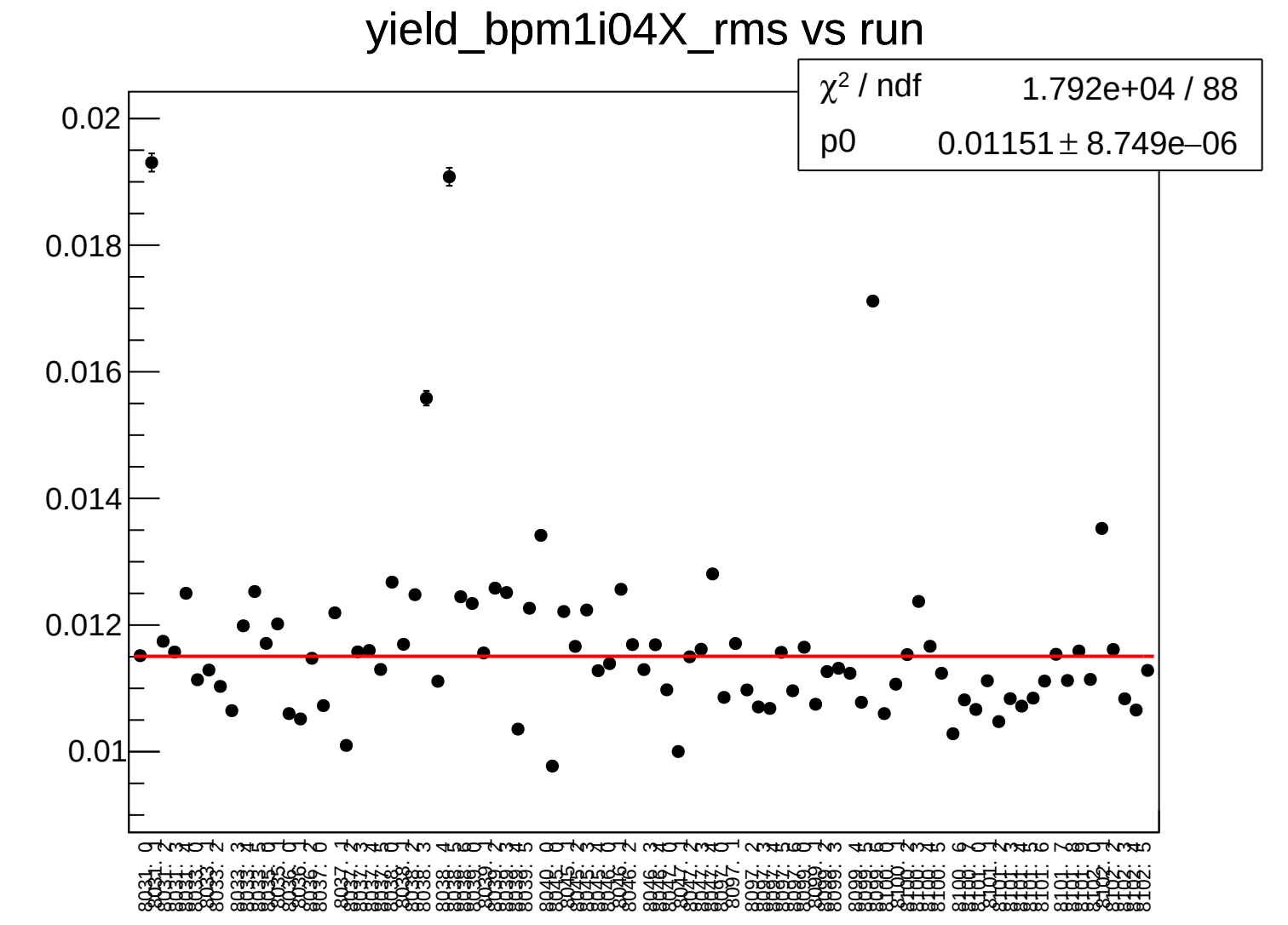

yield_bpm1i02Y_mean vs run
χ² / ndf 1.304e+06 / 88
p0 1.144 ± 8.944e−06
1.18
1.17
1.16
1.15
1.14
1.13
1.12
pull
Entries 89
Mean 653
Std Dev 0
400
300
200
100
0
−100
−200

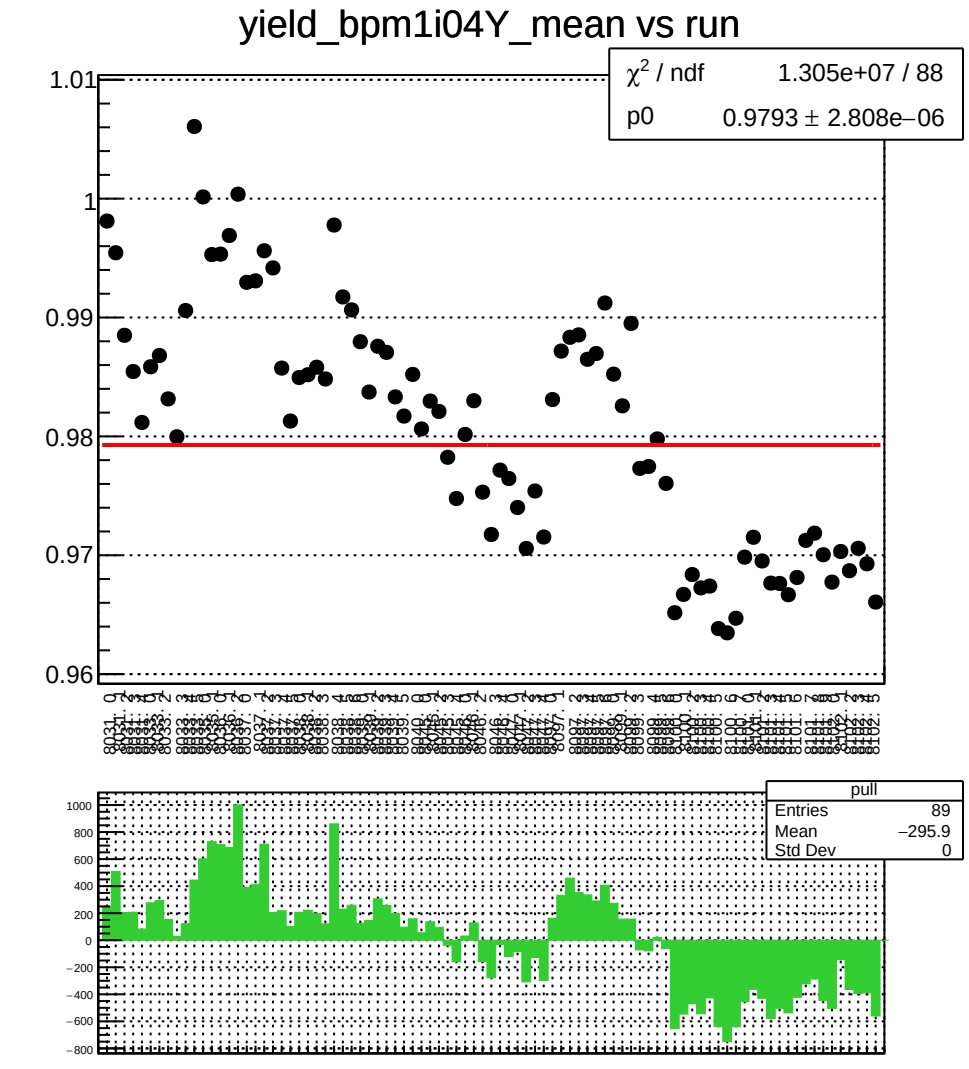

pull1D
Entries 89
Mean 2.308
Std Dev 4.723
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

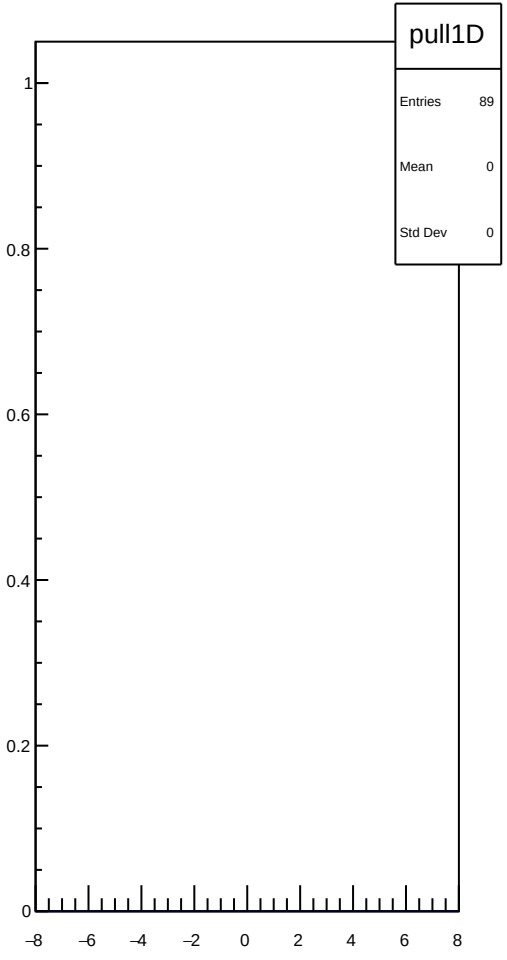

yield_bpm1i02Y_rms vs run
χ² / ndf 1.23e+04 / 88
p0 0.008331 ± 6.325e−06
0.012
0.011
0.01
0.009
0.008
0.007

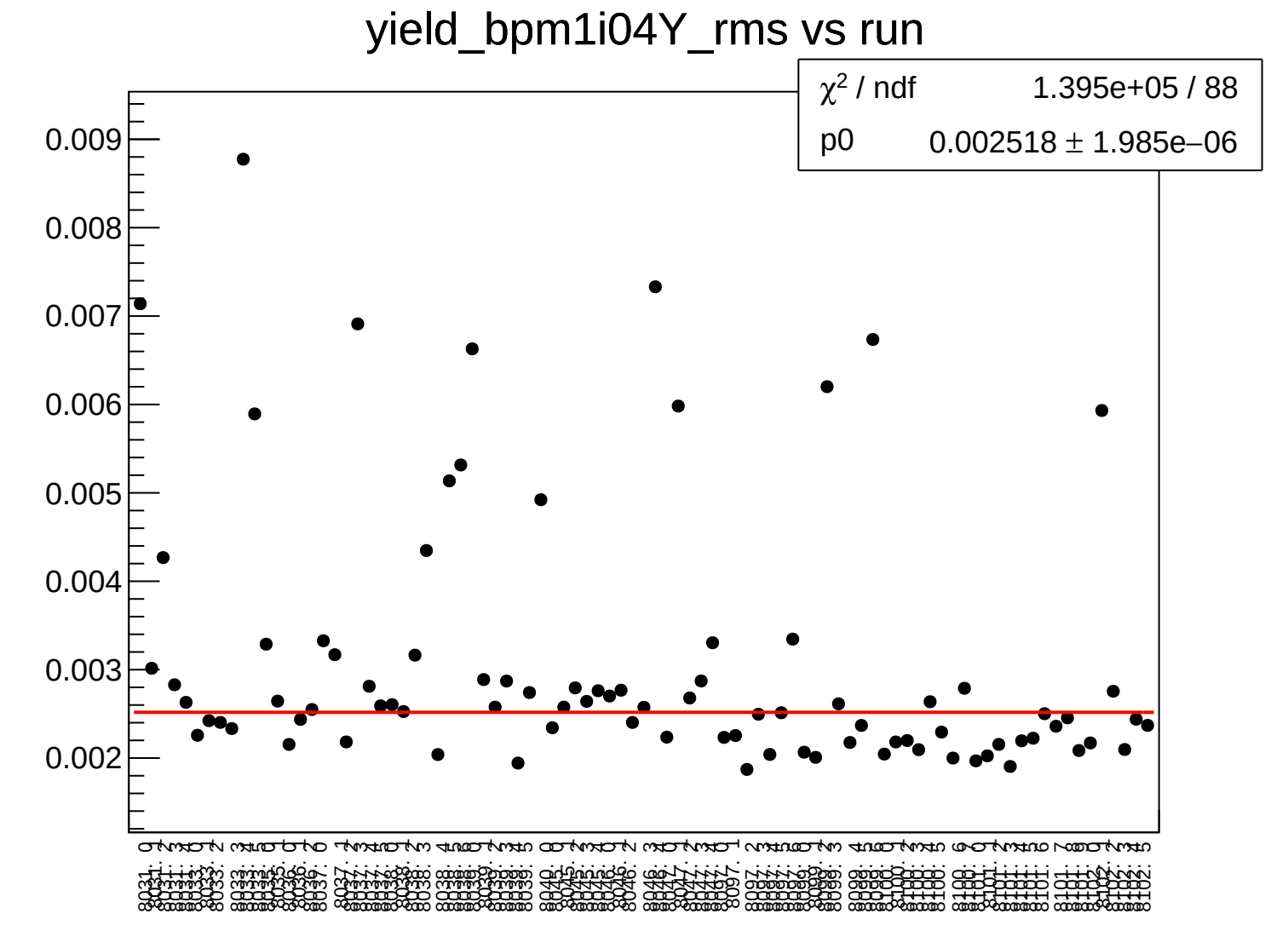

yield_bpm1i04X_mean vs run
χ² / ndf 1.733e+06 / 88
p0 0.001554 ± 1.237e−05
pull
Entries 89
Mean 316.7
Std Dev 0

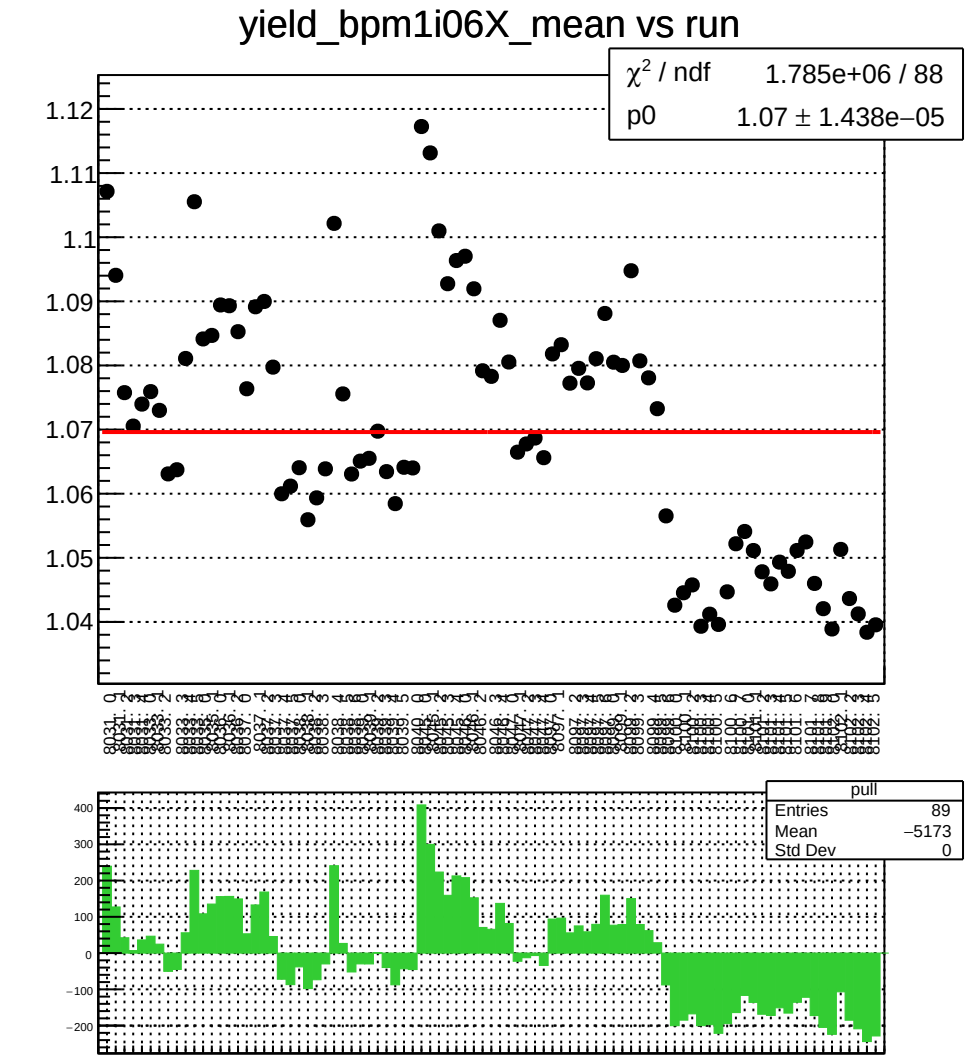

pull1D
Entries 89
Mean −2.19
Std Dev 5.267

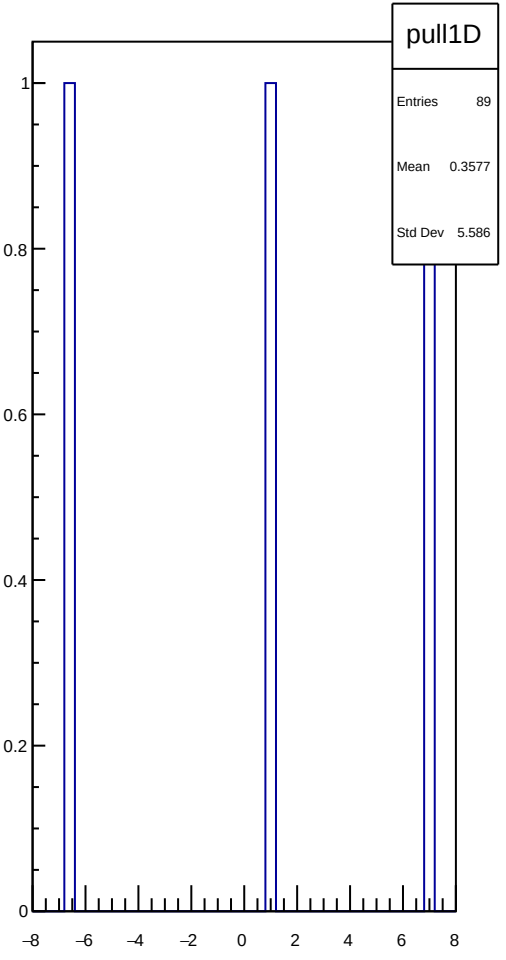

yield_bpm1i04X_rms vs run
χ² / ndf 1.792e+04 / 88
p0 0.01151 ± 8.749e–06
0.02
0.018
0.016
0.014
0.012
0.01

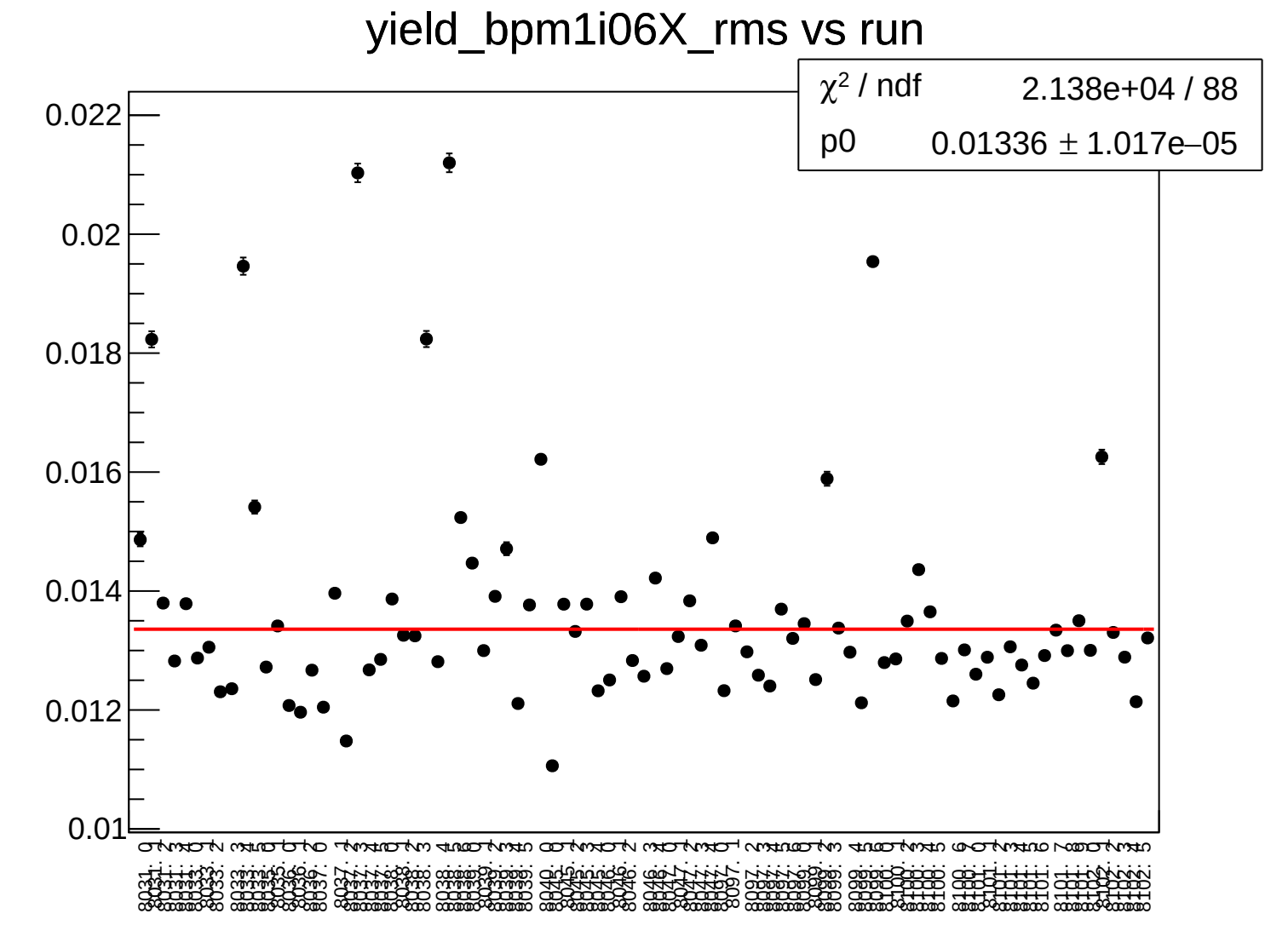

yield_bpm1i04Y_mean vs run
χ² / ndf 1.305e+07 / 88
p0 0.9793 ± 2.808e−06
1.01
1
0.99
0.98
0.97
0.96
pull
Entries 89
Mean −295.9
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600
−800

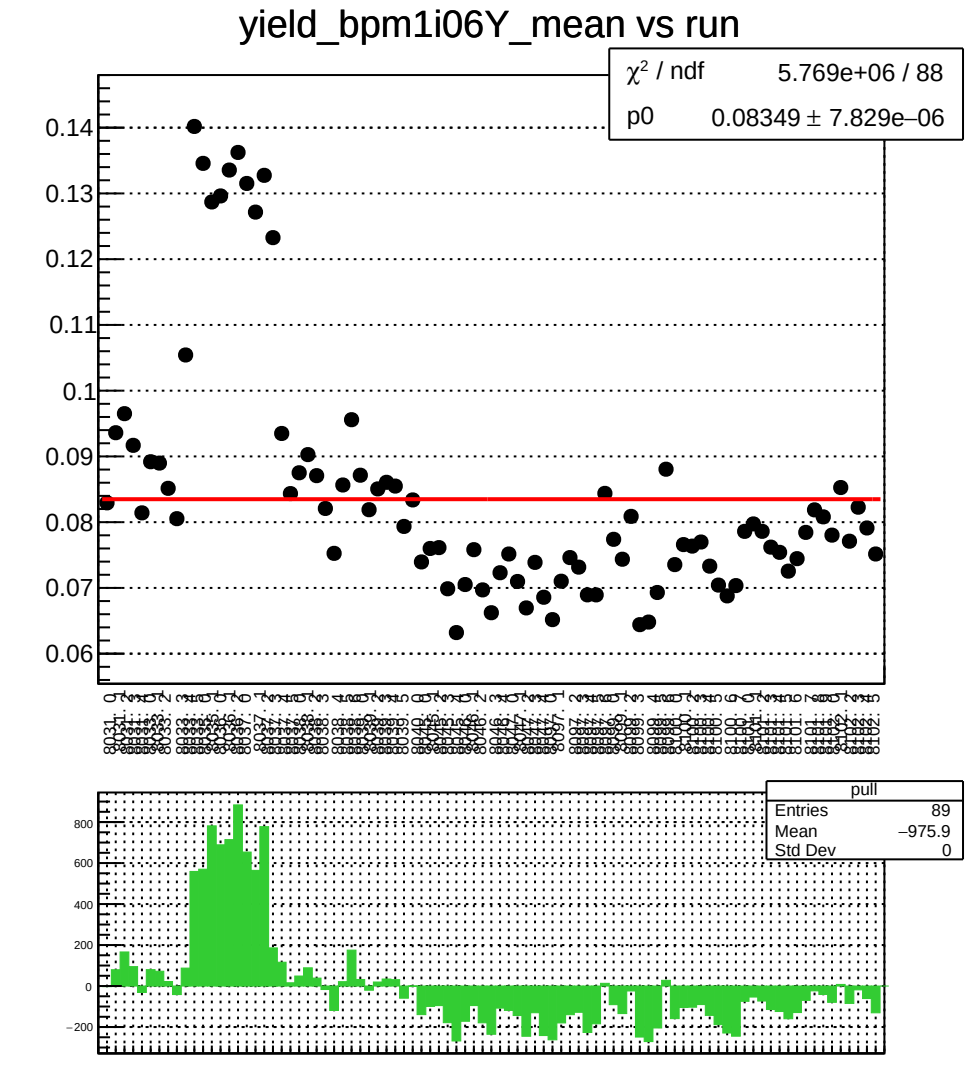

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

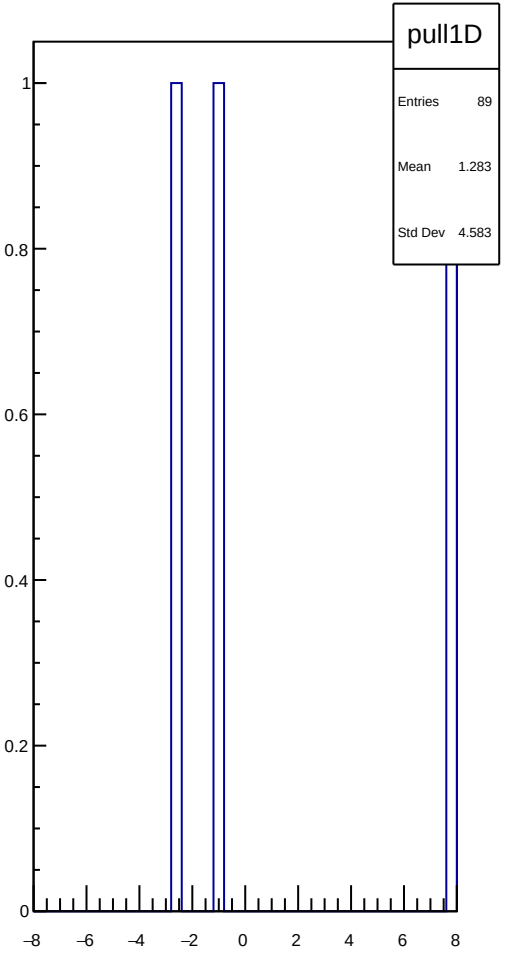

yield_bpm1i04Y_rms vs run
χ² / ndf 1.395e+05 / 88
p0 0.002518 ± 1.985e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

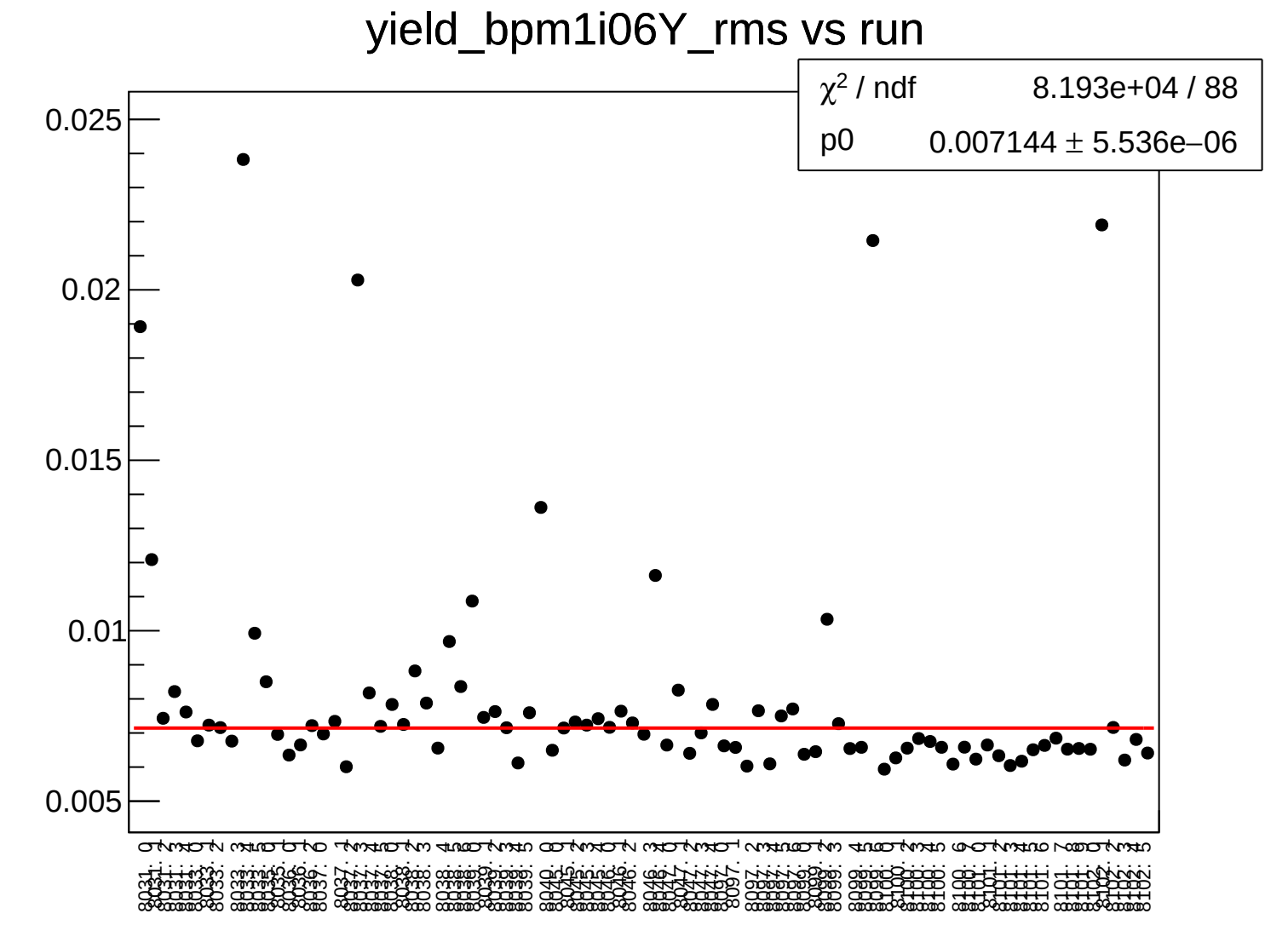

yield_bpm1i06X_mean vs run
χ² / ndf 1.785e+06 / 88
p0 1.07 ± 1.438e−05
1.12
1.11
1.1
1.09
1.08
1.07
1.06
1.05
1.04
pull
Entries 89
Mean −5173
Std Dev 0
400
300
200
100
0
−100
−200

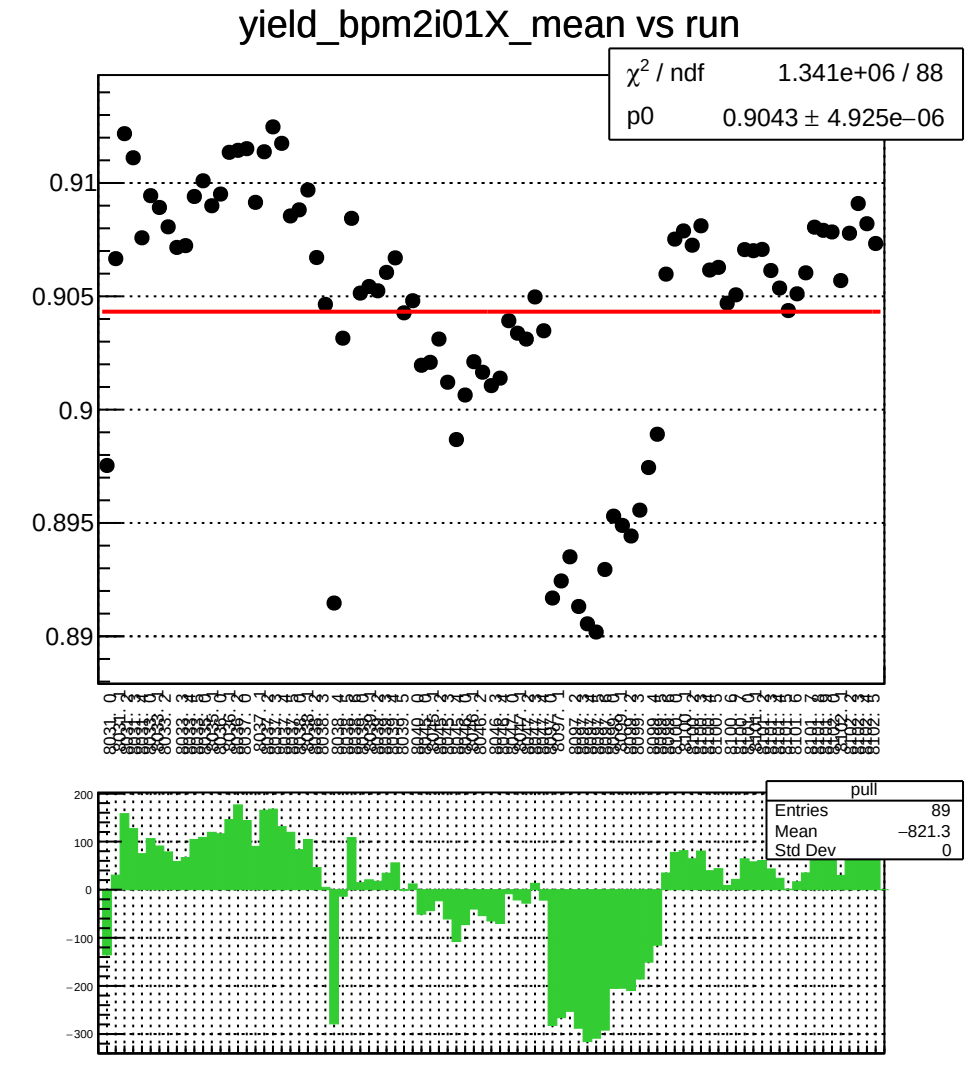

pull1D
Entries 89
Mean 0.3577
Std Dev 5.586
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

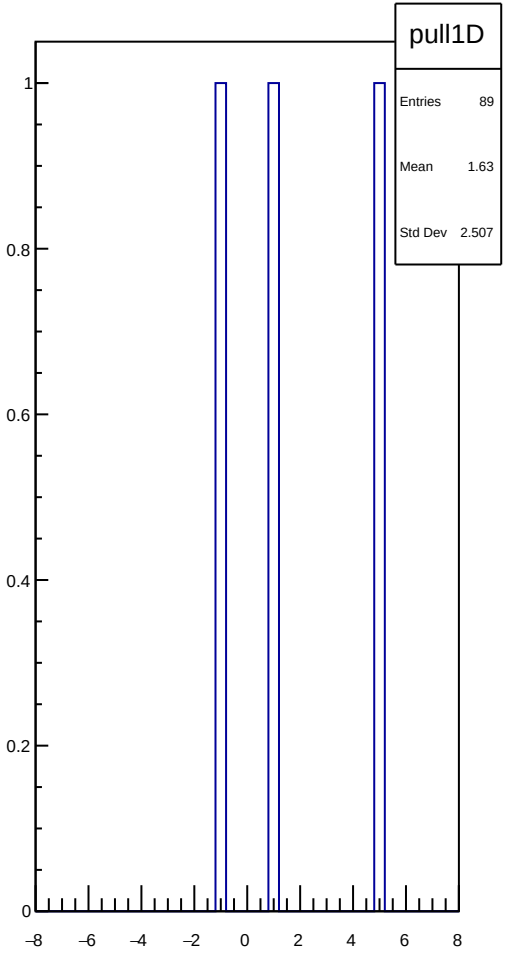

yield_bpm1i06X_rms vs run
χ² / ndf 2.138e+04 / 88
p0 0.01336 ± 1.017e–05
0.022
0.02
0.018
0.016
0.014
0.012
0.01

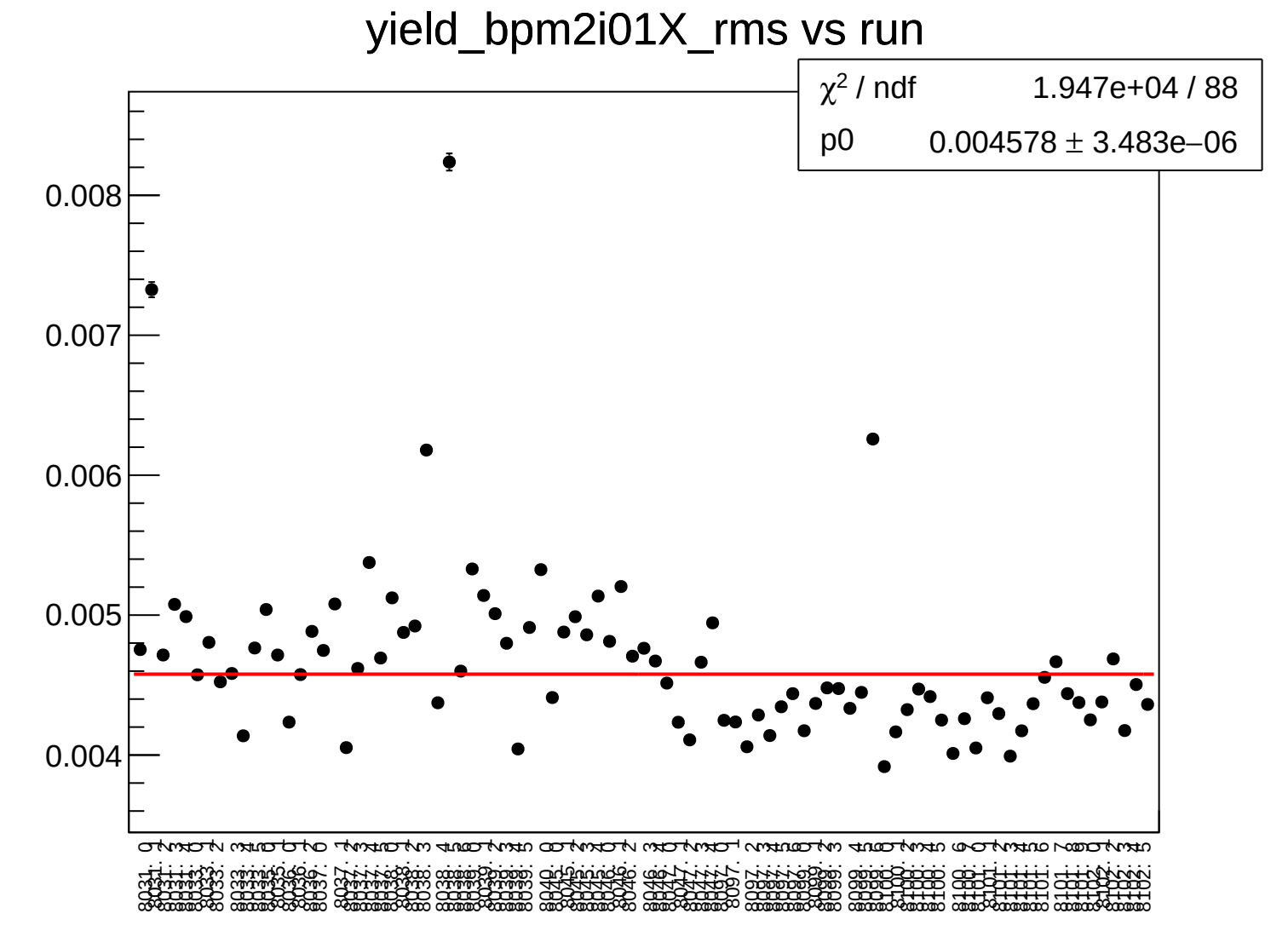

yield_bpm1i06Y_mean vs run
χ² / ndf 5.769e+06 / 88
p0 0.08349 ± 7.829e–06
pull
Entries 89
Mean –975.9
Std Dev 0

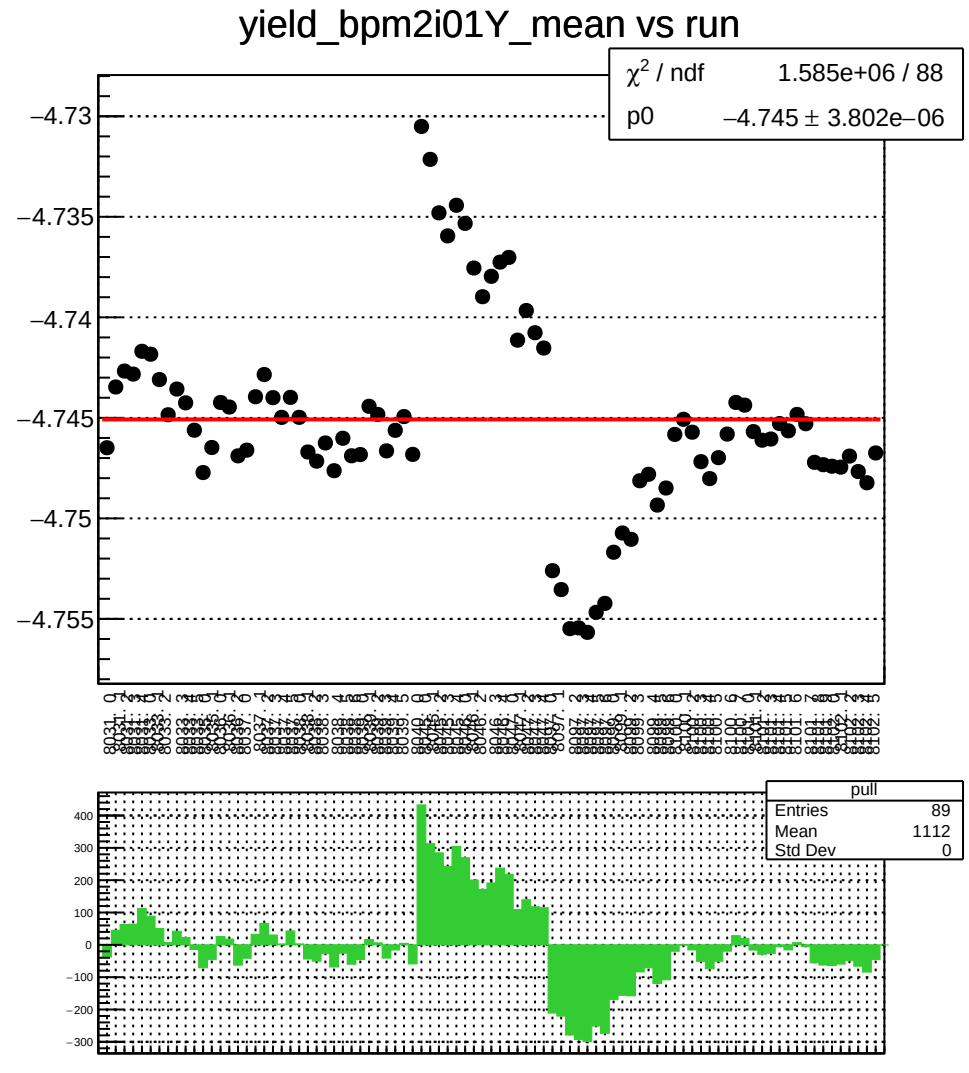

pull1D
Entries 89
Mean 1.283
Std Dev 4.583

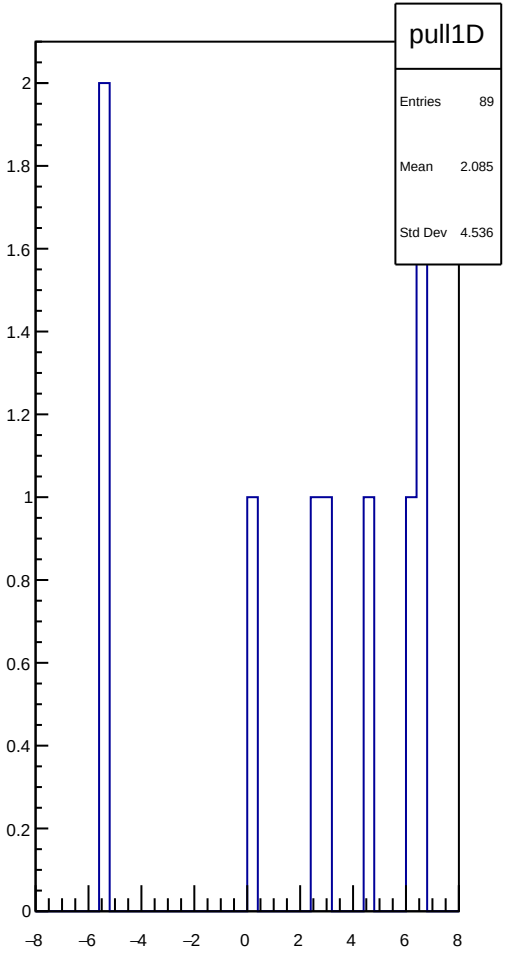

yield_bpm1i06Y_rms vs run
χ² / ndf 8.193e+04 / 88
p0 0.007144 ± 5.536e−06
0.025
0.02
0.015
0.01
0.005

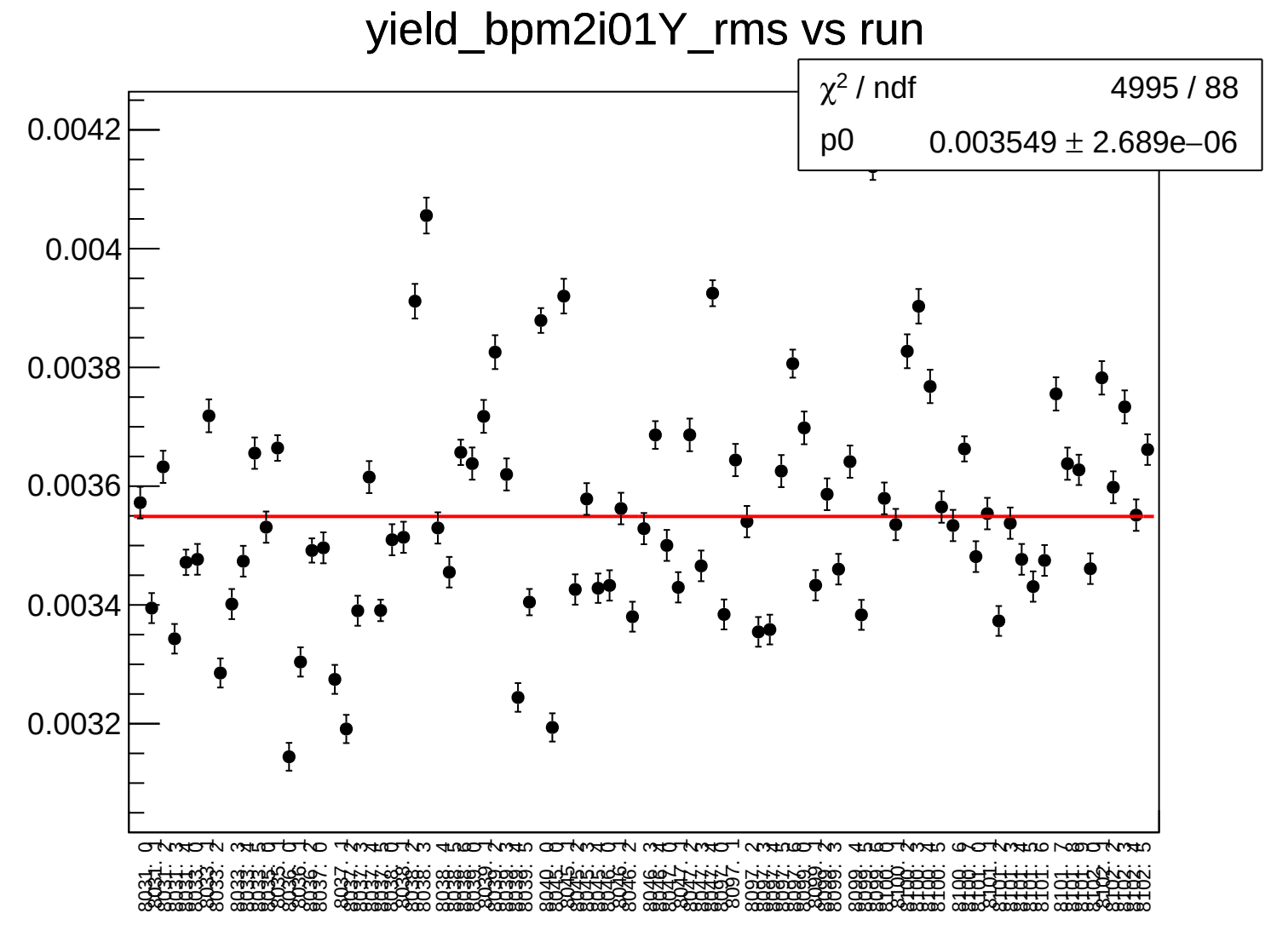

yield_bpm2i01X_mean vs run
χ² / ndf 1.341e+06 / 88
p0 0.9043 ± 4.925e−06
0.91
0.905
0.9
0.895
0.89
pull
Entries 89
Mean −821.3
Std Dev 0
200
100
0
−100
−200
−300

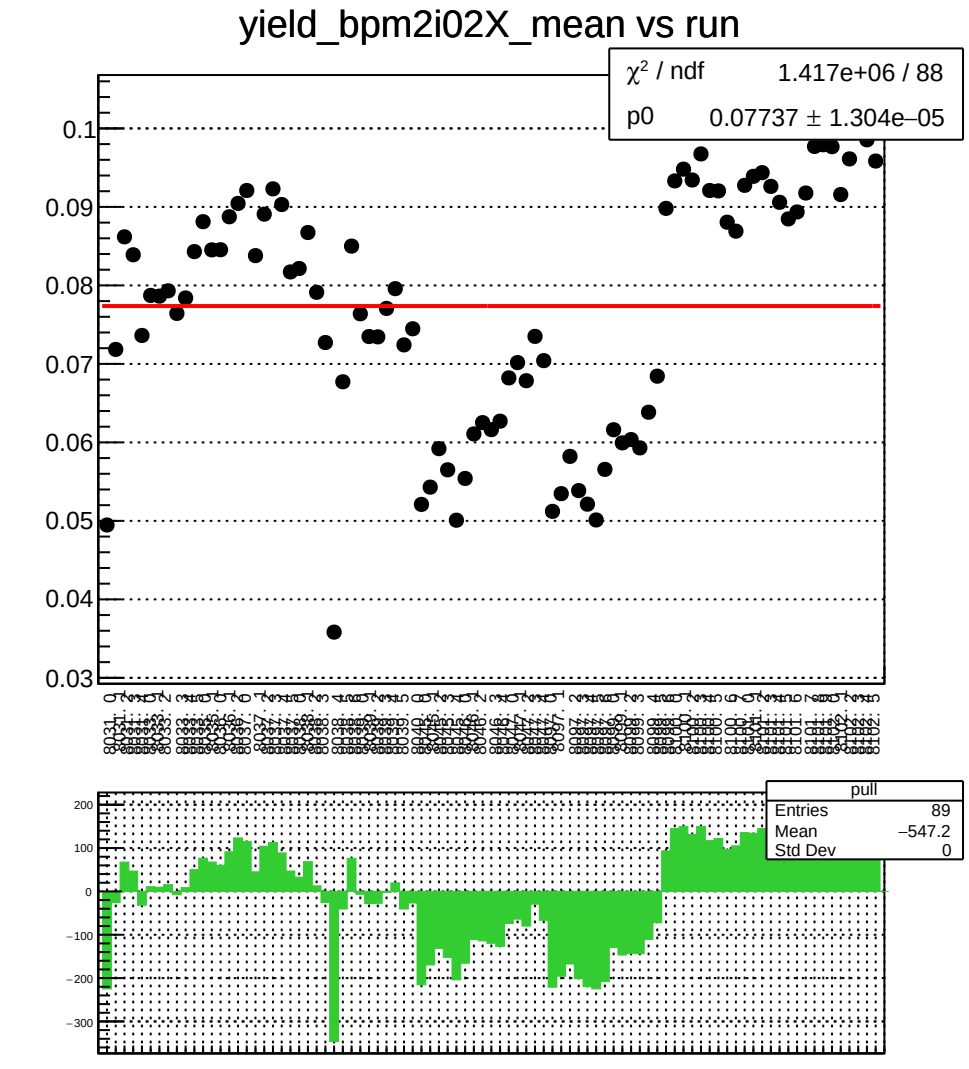

pull1D
Entries 89
Mean 1.63
Std Dev 2.507
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

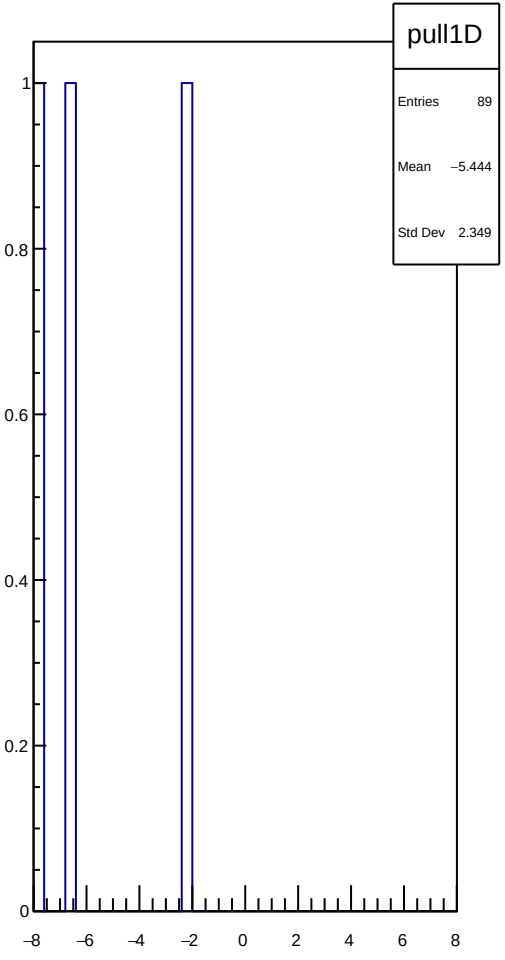

yield_bpm2i01X_rms vs run
χ² / ndf 1.947e+04 / 88
p0 0.004578 ± 3.483e−06
0.008
0.007
0.006
0.005
0.004

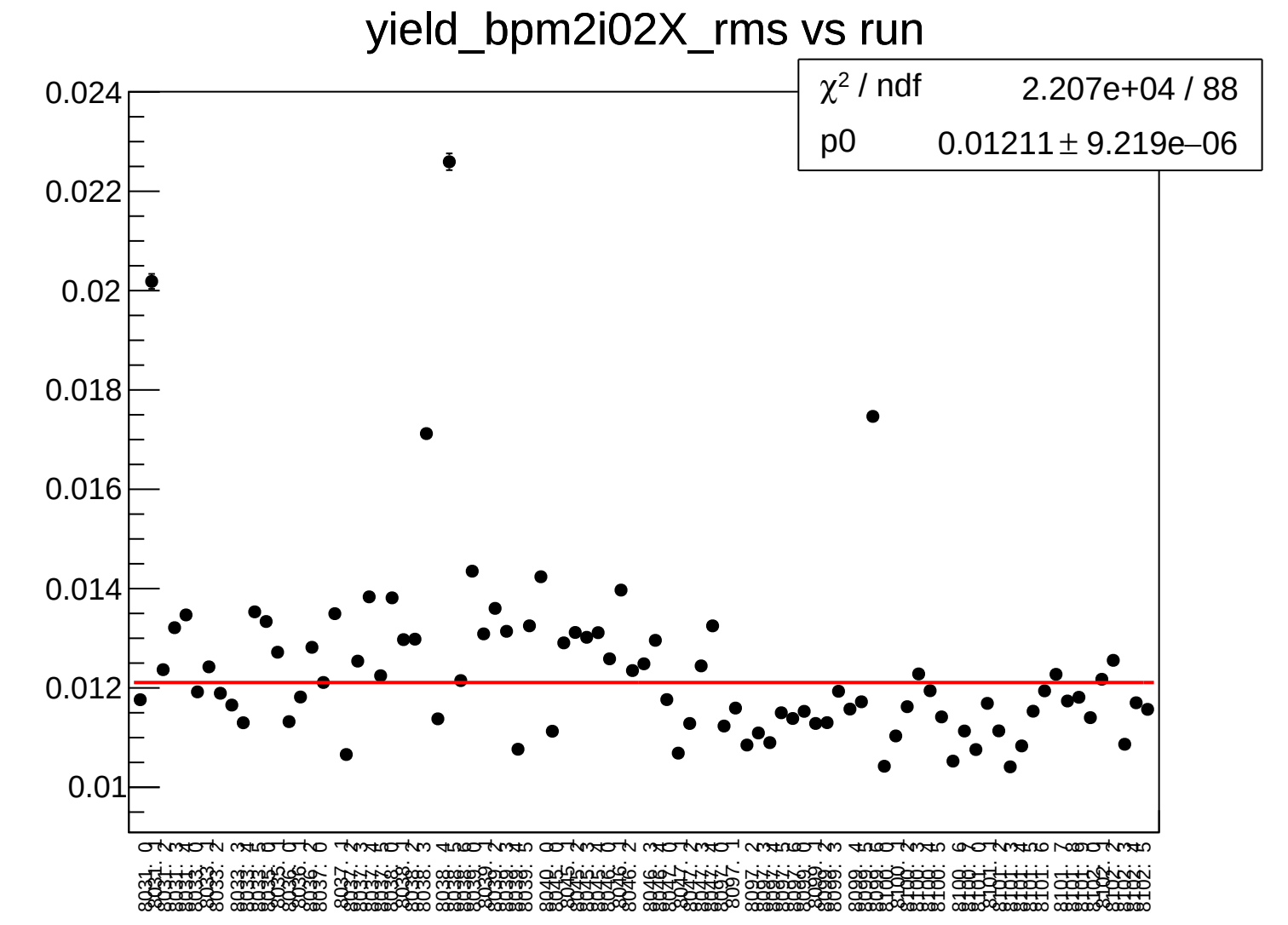

yield_bpm2i01Y_mean vs run
χ² / ndf 1.585e+06 / 88
p0 −4.745 ± 3.802e−06
−4.73
−4.735
−4.74
−4.745
−4.75
−4.755
pull
Entries 89
Mean 1112
Std Dev 0
400
300
200
100
0
−100
−200
−300

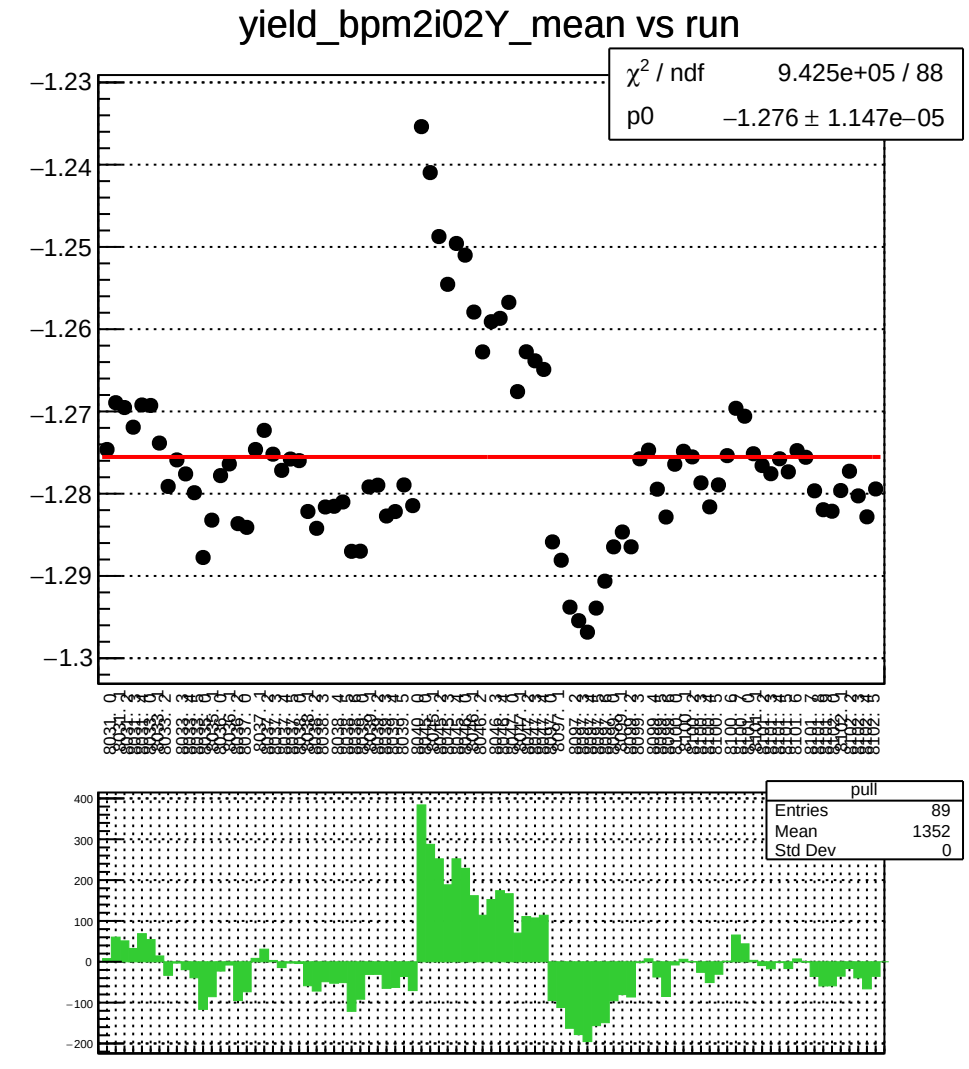

pull1D
Entries 89
Mean 2.085
Std Dev 4.536
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

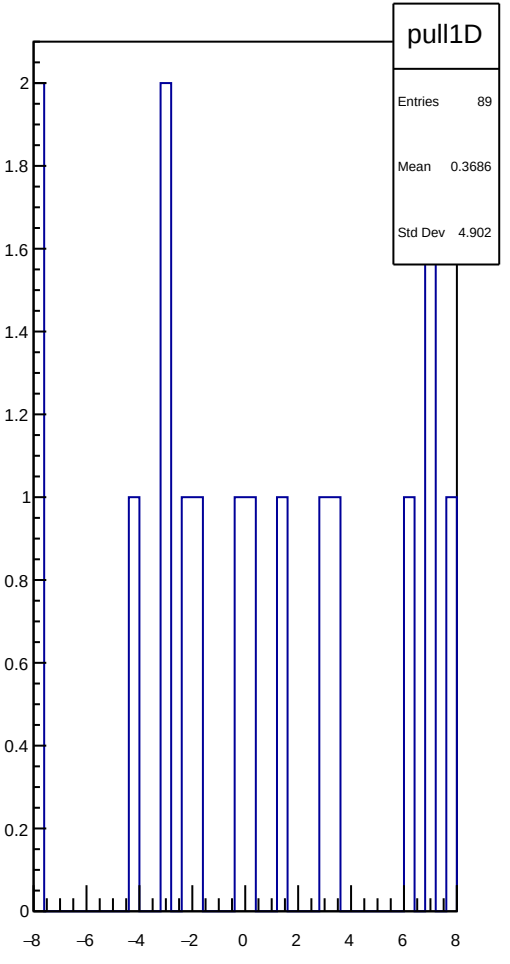

yield_bpm2i01Y_rms vs run
χ² / ndf 4995 / 88
p0 0.003549 ± 2.689e−06
0.0042
0.004
0.0038
0.0036
0.0034
0.0032

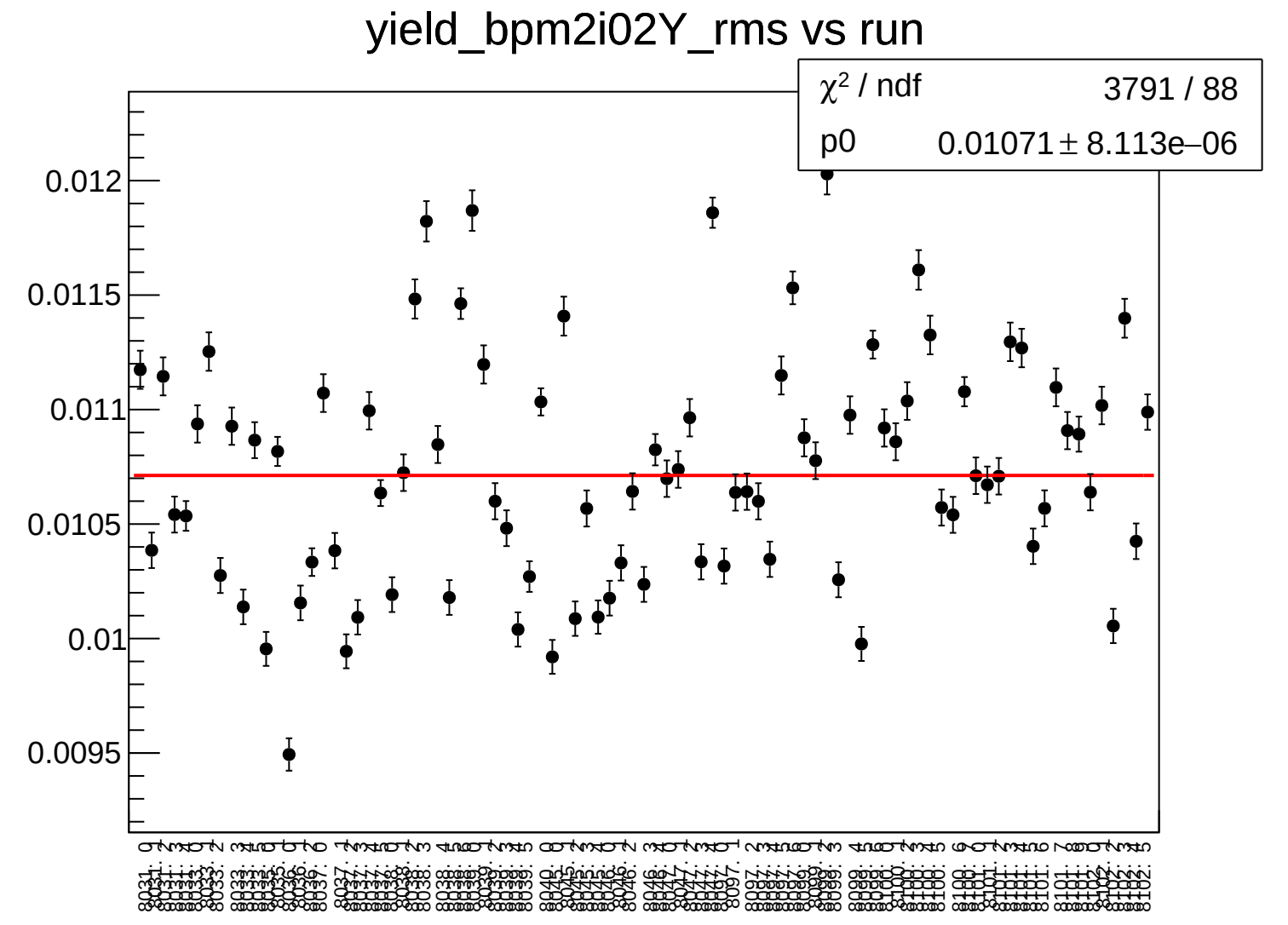

yield_bpm2i02X_mean vs run
χ² / ndf 1.417e+06 / 88
p0 0.07737 ± 1.304e−05
pull
Entries 89
Mean −547.2
Std Dev 0

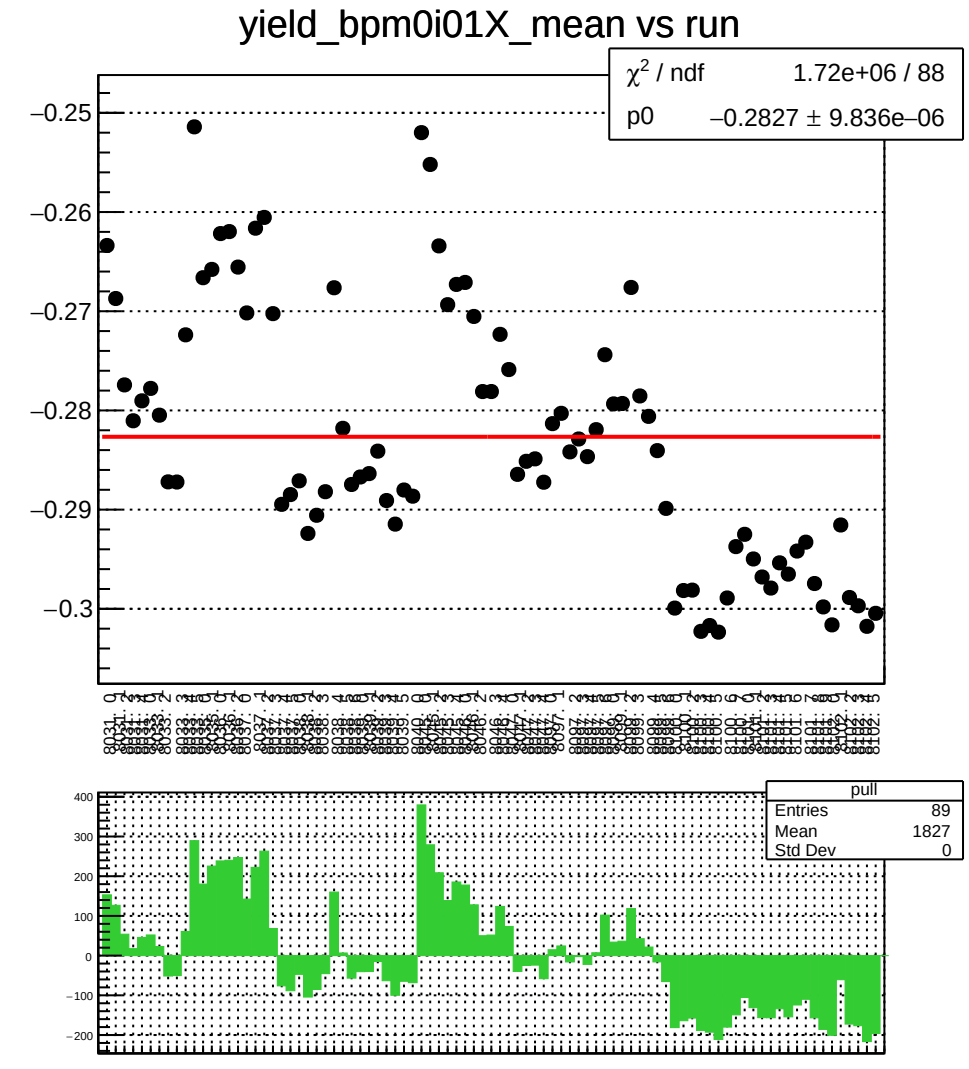

pull1D
Entries 89
Mean −5.444
Std Dev 2.349

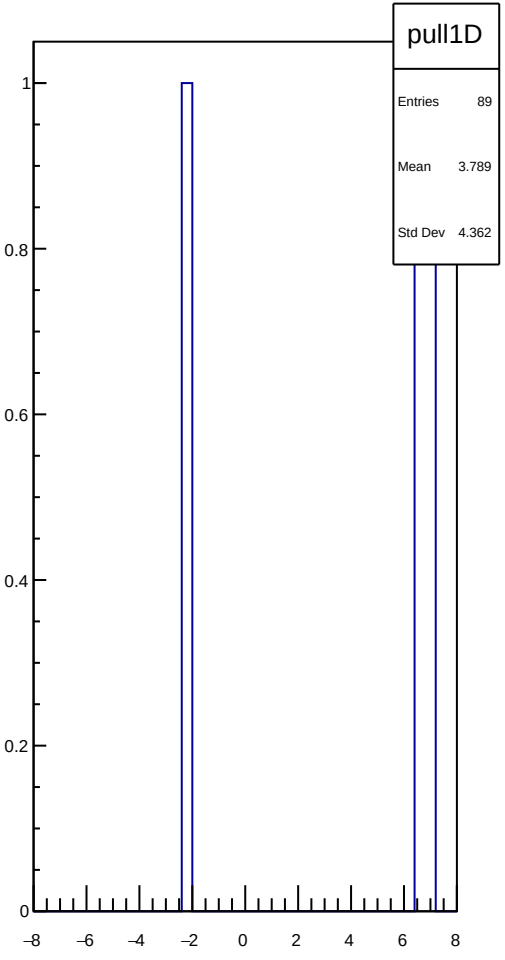

yield_bpm2i02X_rms vs run
χ² / ndf 2.207e+04 / 88
p0 0.01211 ± 9.219e–06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

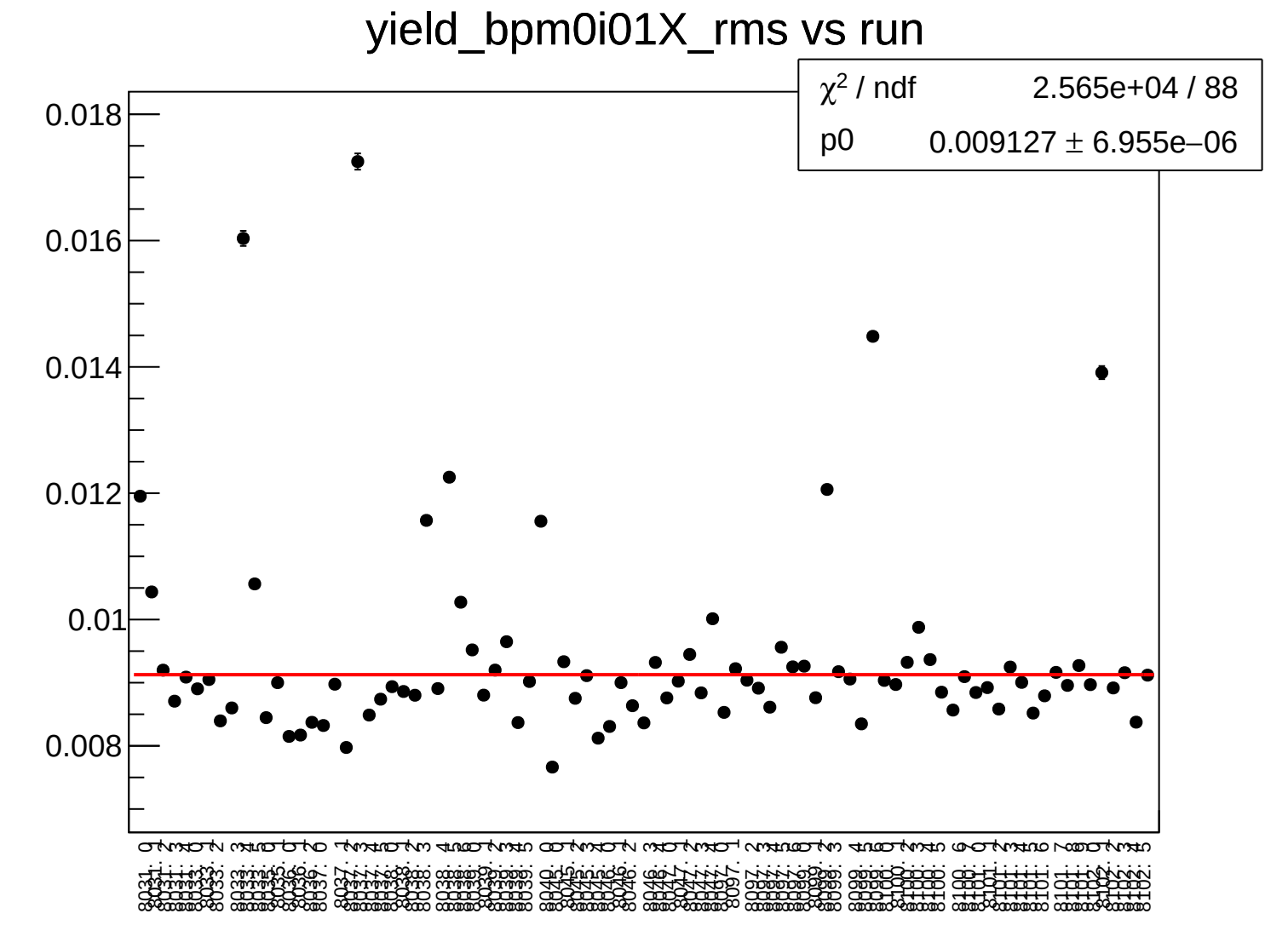

yield_bpm2i02Y_mean vs run
χ² / ndf 9.425e+05 / 88
p0 −1.276 ± 1.147e−05
−1.23
−1.24
−1.25
−1.26
−1.27
−1.28
−1.29
−1.3
pull
Entries 89
Mean 1352
Std Dev 0
400
300
200
100
0
−100
−200

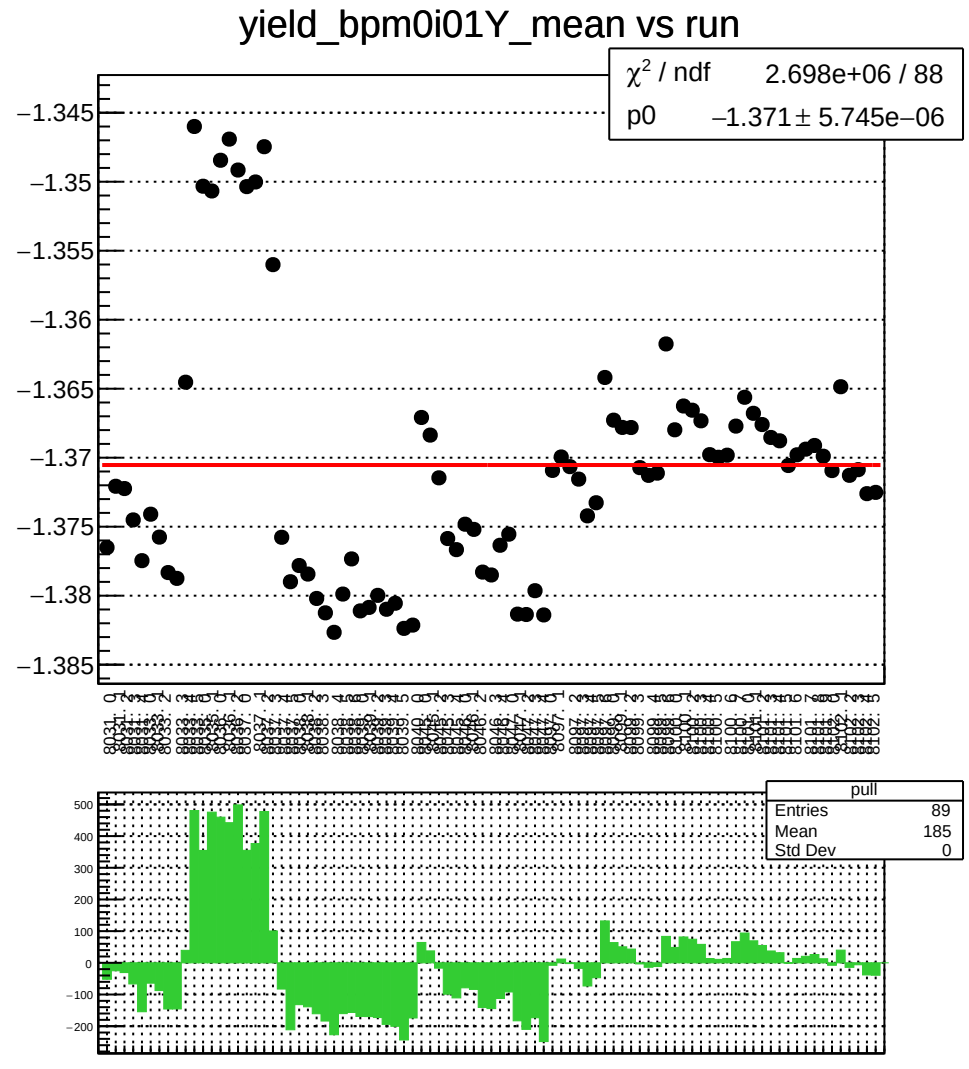

pull1D
Entries 89
Mean 0.3686
Std Dev 4.902
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

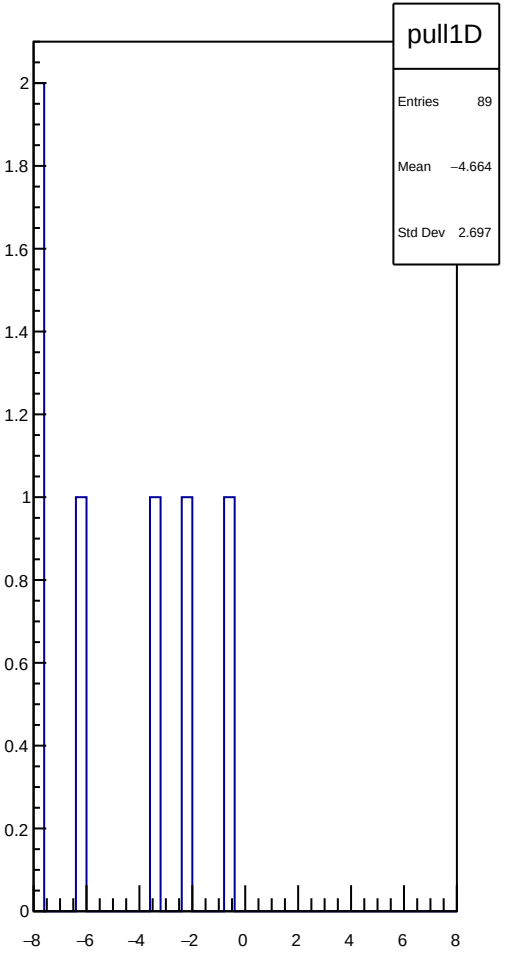

yield_bpm2i02Y_rms vs run
χ² / ndf 3791 / 88
p0 0.01071 ± 8.113e–06
0.012
0.0115
0.011
0.0105
0.01
0.0095

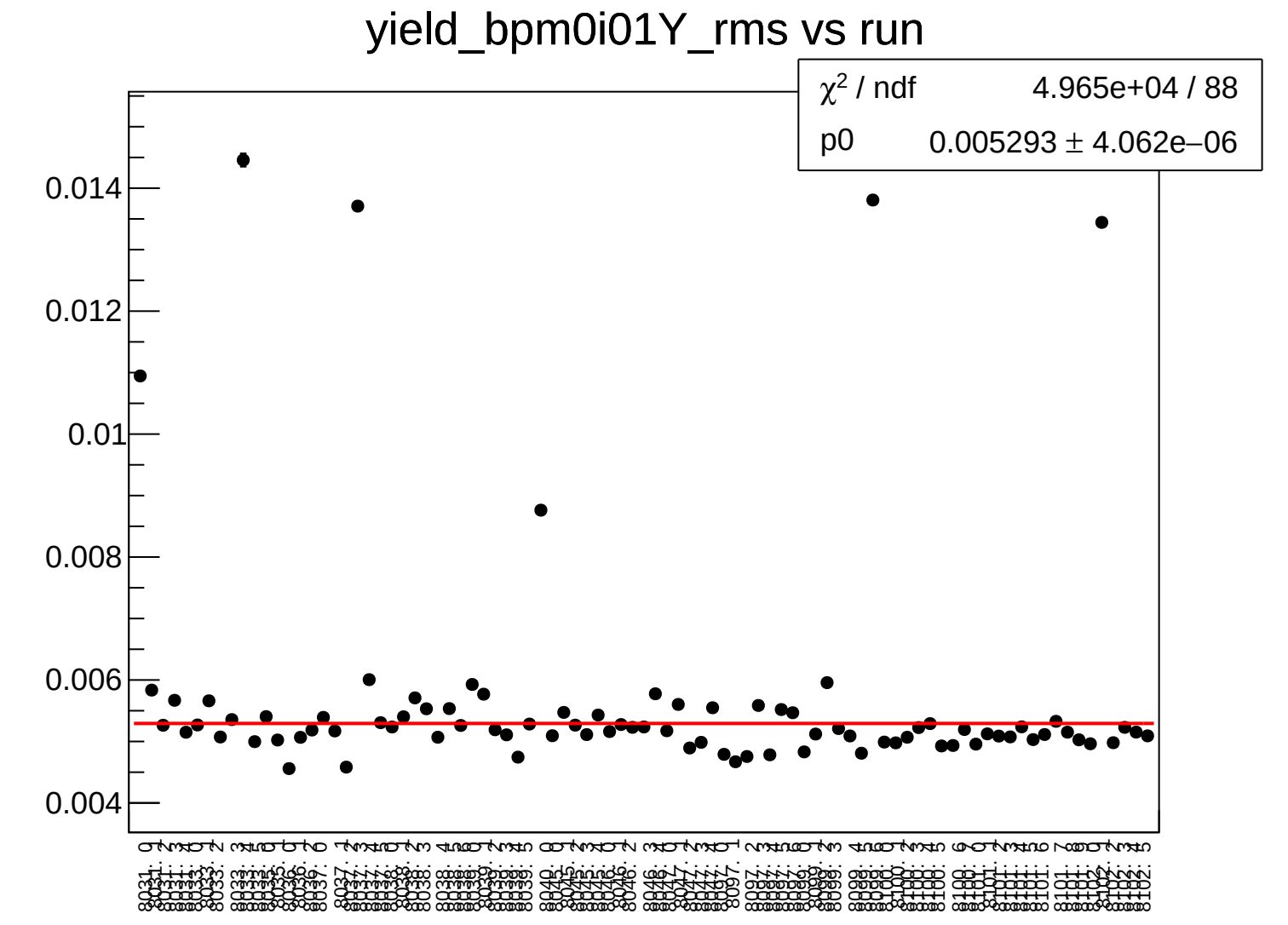

yield_bpm0i01X_mean vs run
χ² / ndf 1.72e+06 / 88
p0 −0.2827 ± 9.836e−06
−0.25
−0.26
−0.27
−0.28
−0.29
−0.3
pull
Entries 89
Mean 1827
Std Dev 0
400
300
200
100
0
−100
−200

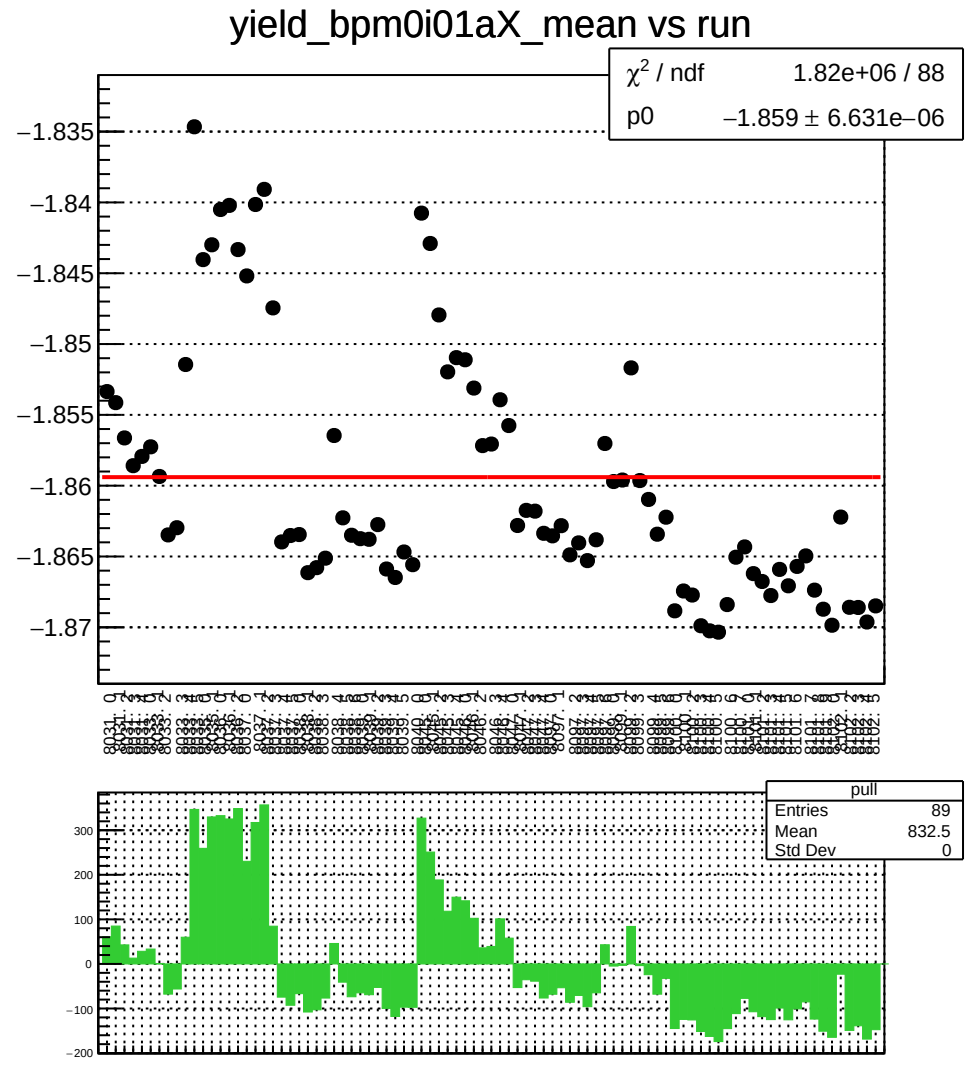

pull1D
Entries 89
Mean 3.789
Std Dev 4.362
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

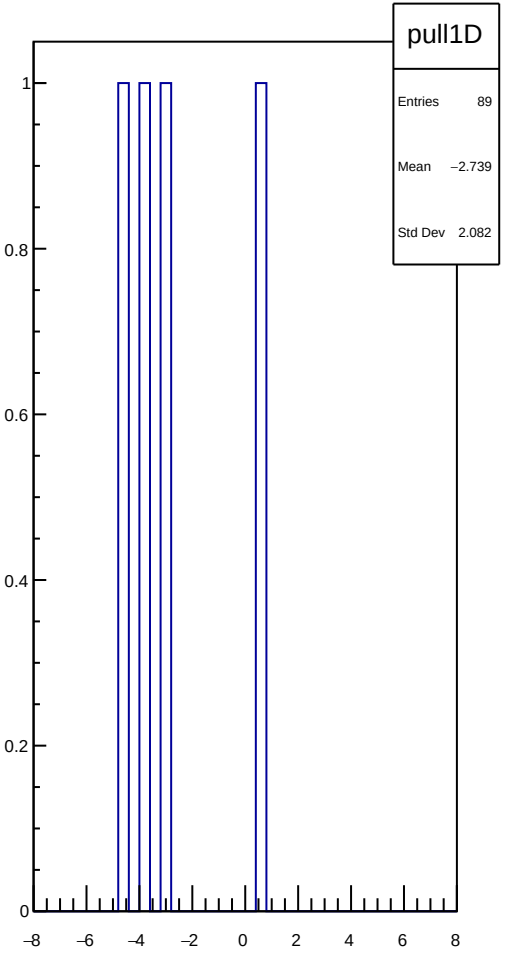

yield_bpm0i01X_rms vs run
χ² / ndf 2.565e+04 / 88
p0 0.009127 ± 6.955e−06
0.018
0.016
0.014
0.012
0.01
0.008

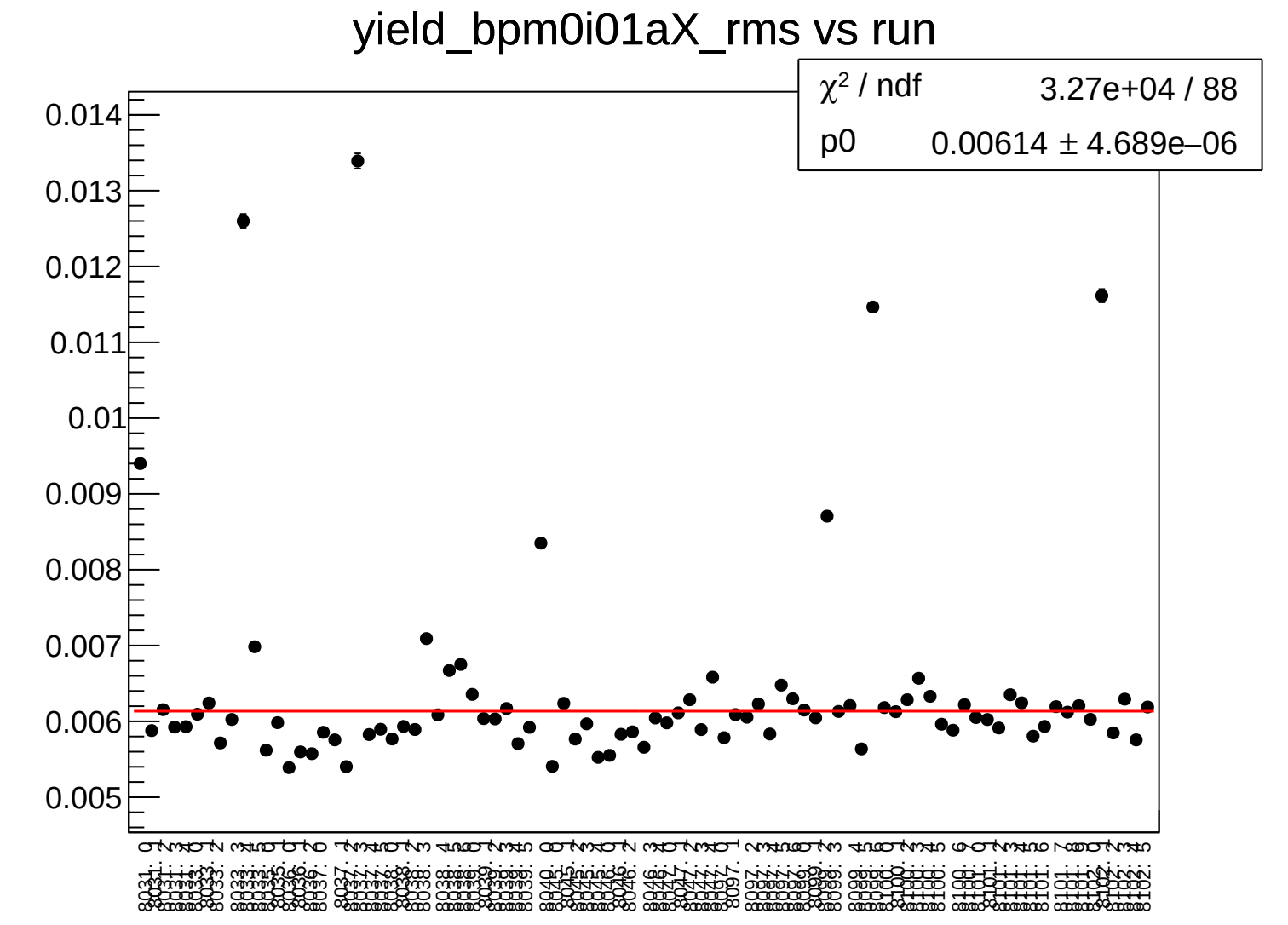

yield_bpm0i01Y_mean vs run
χ² / ndf 2.698e+06 / 88
p0 −1.371 ± 5.745e−06
−1.345
−1.35
−1.355
−1.36
−1.365
−1.37
−1.375
−1.38
−1.385
pull
Entries 89
Mean 185
Std Dev 0
500
400
300
200
100
0
−100
−200

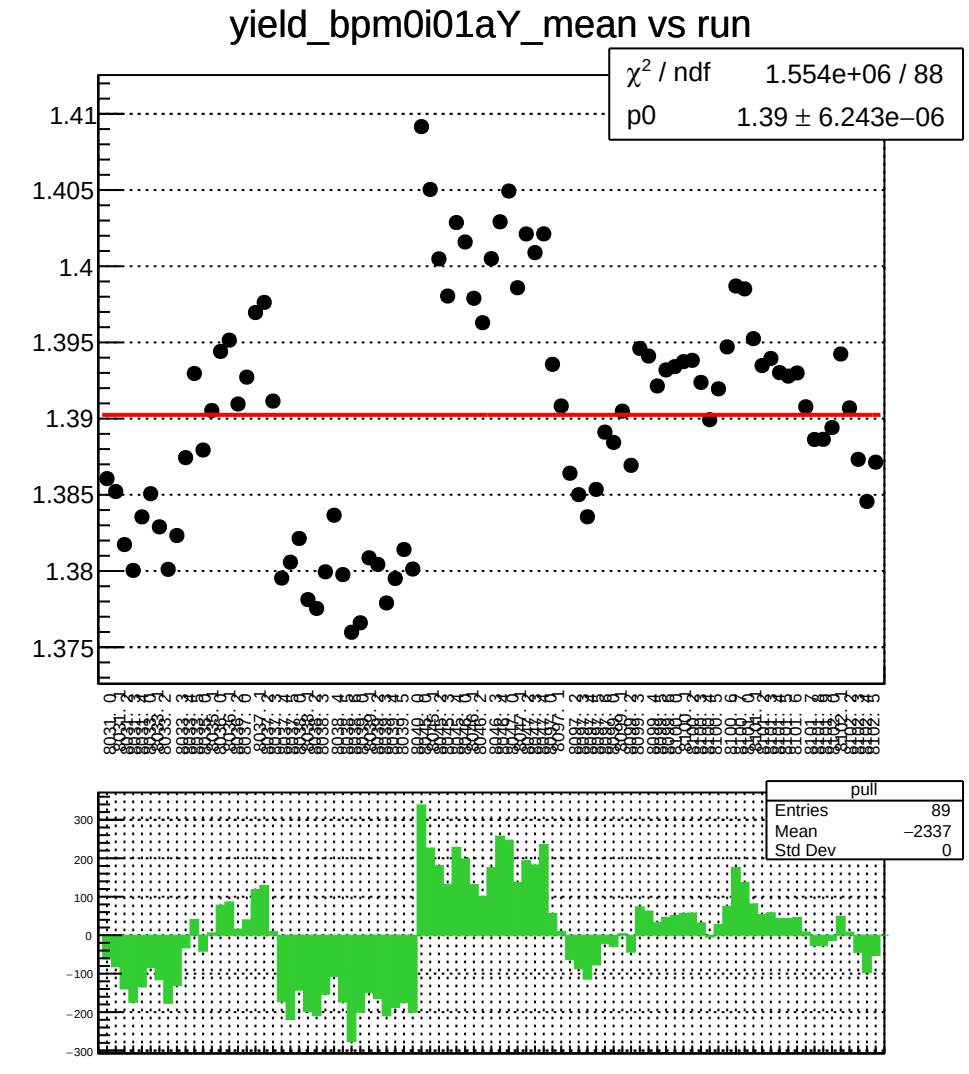

pull1D
Entries 89
Mean −4.664
Std Dev 2.697
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

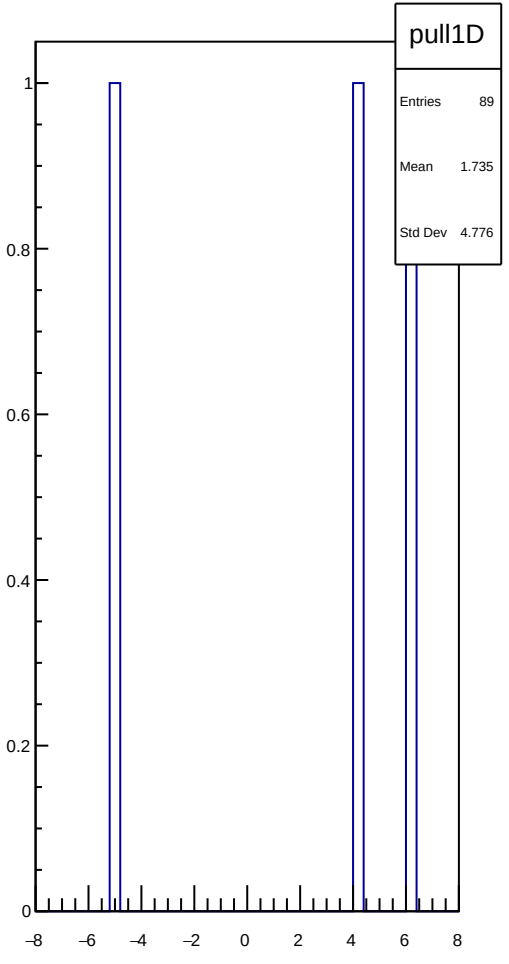

yield_bpm0i01Y_rms vs run
$\chi^2$ / ndf 4.965e+04 / 88
p0 0.005293 ± 4.062e−06
0.014
0.012
0.01
0.008
0.006
0.004

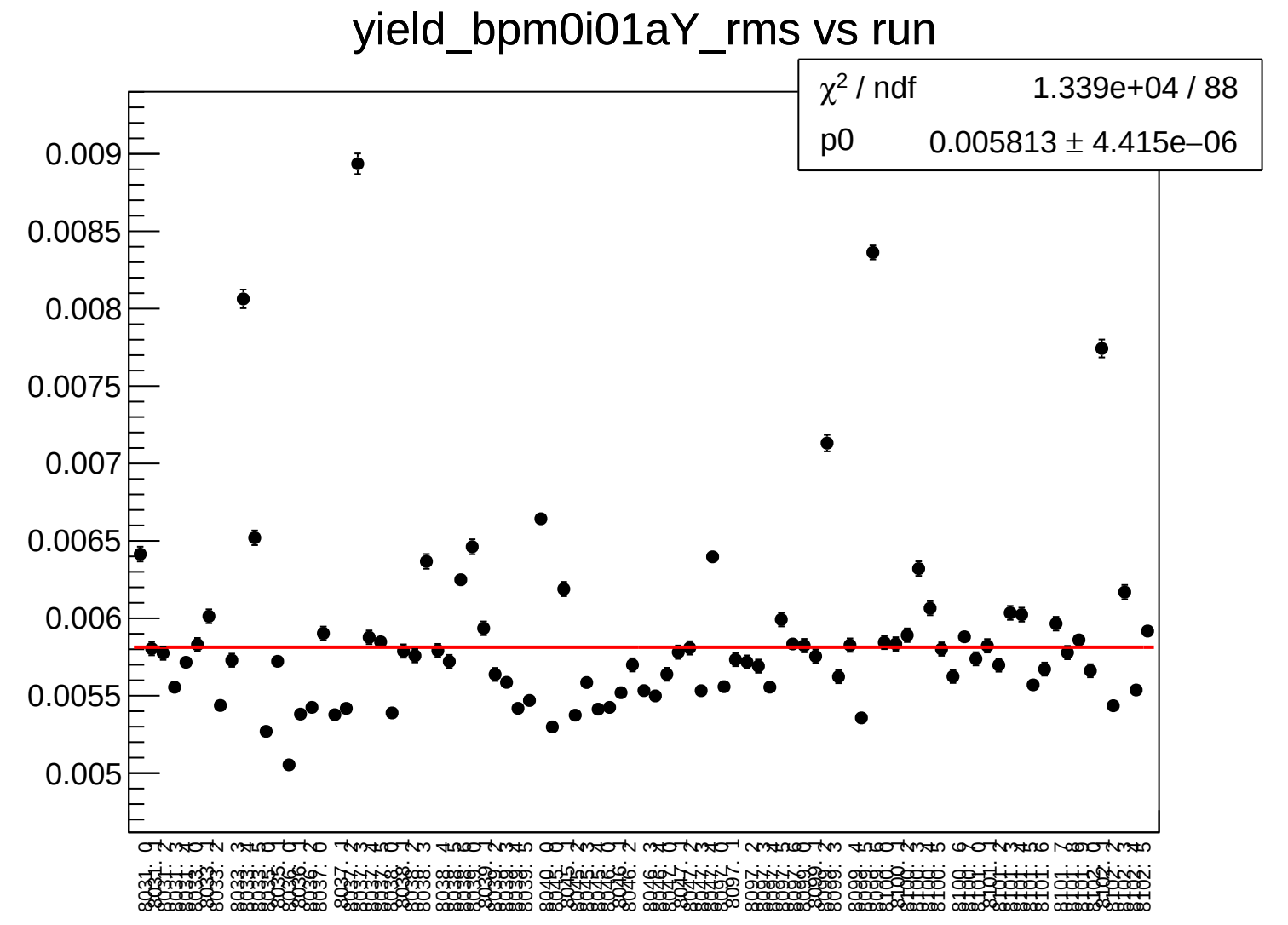

yield_bpm0i01aX_mean vs run
χ² / ndf 1.82e+06 / 88
p0 −1.859 ± 6.631e−06
−1.835
−1.84
−1.845
−1.85
−1.855
−1.86
−1.865
−1.87
pull
Entries 89
Mean 832.5
Std Dev 0
300
200
100
0
−100
−200

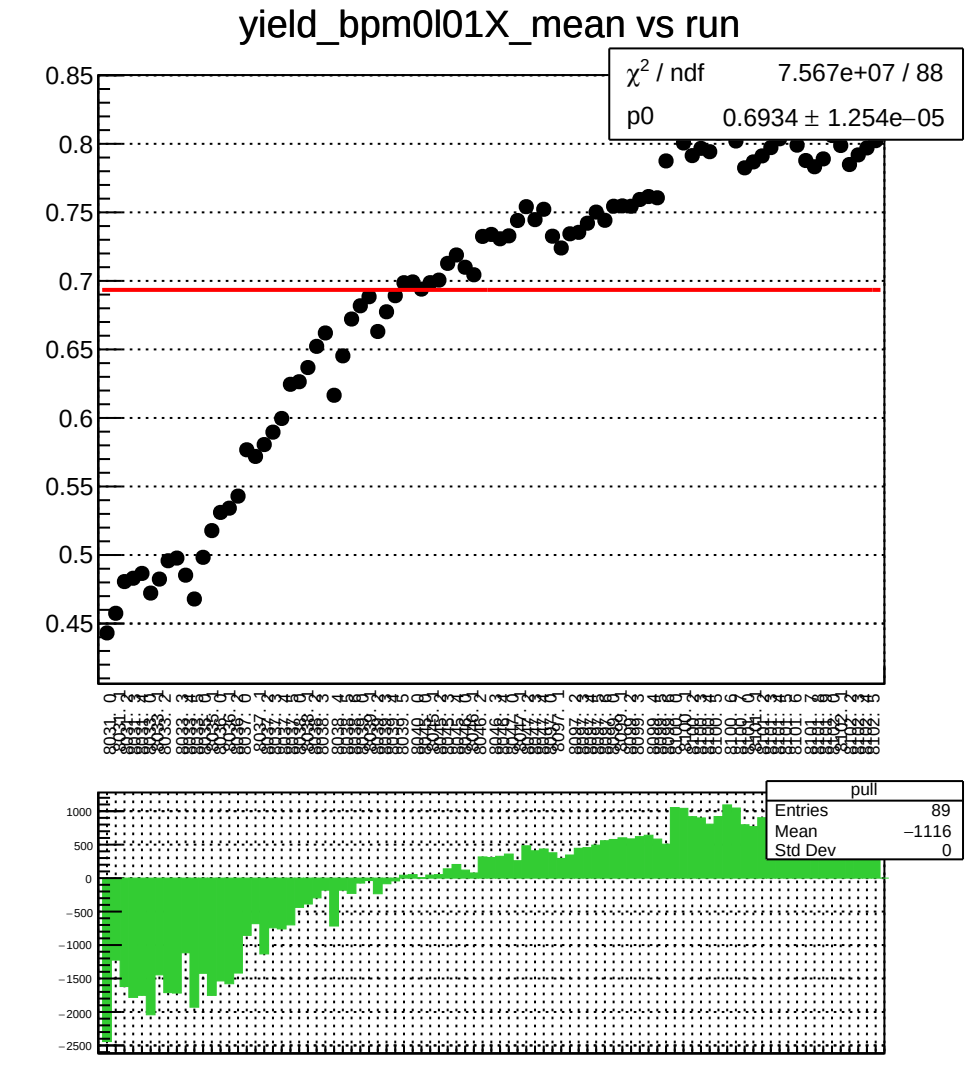

pull1D
Entries 89
Mean −2.739
Std Dev 2.082
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

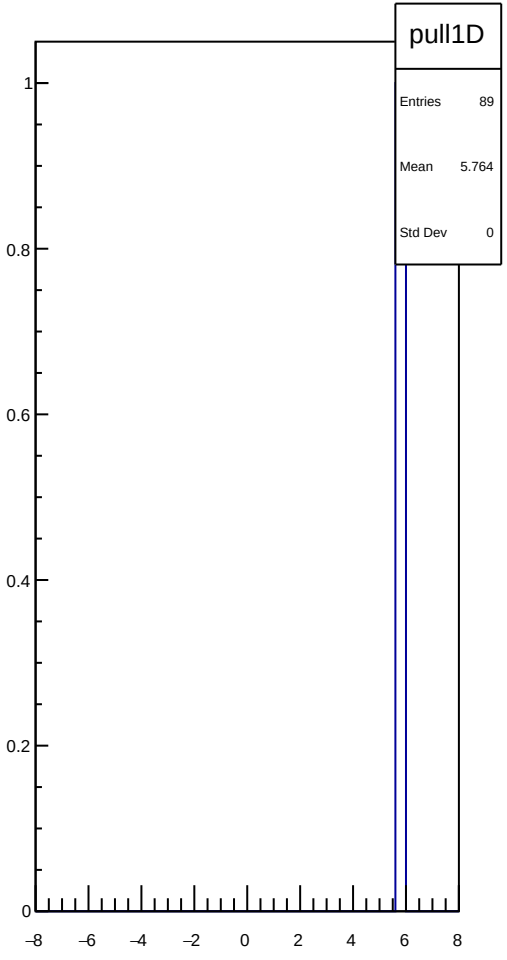

yield_bpm0i01aX_rms vs run
χ² / ndf 3.27e+04 / 88
p0 0.00614 ± 4.689e–06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005

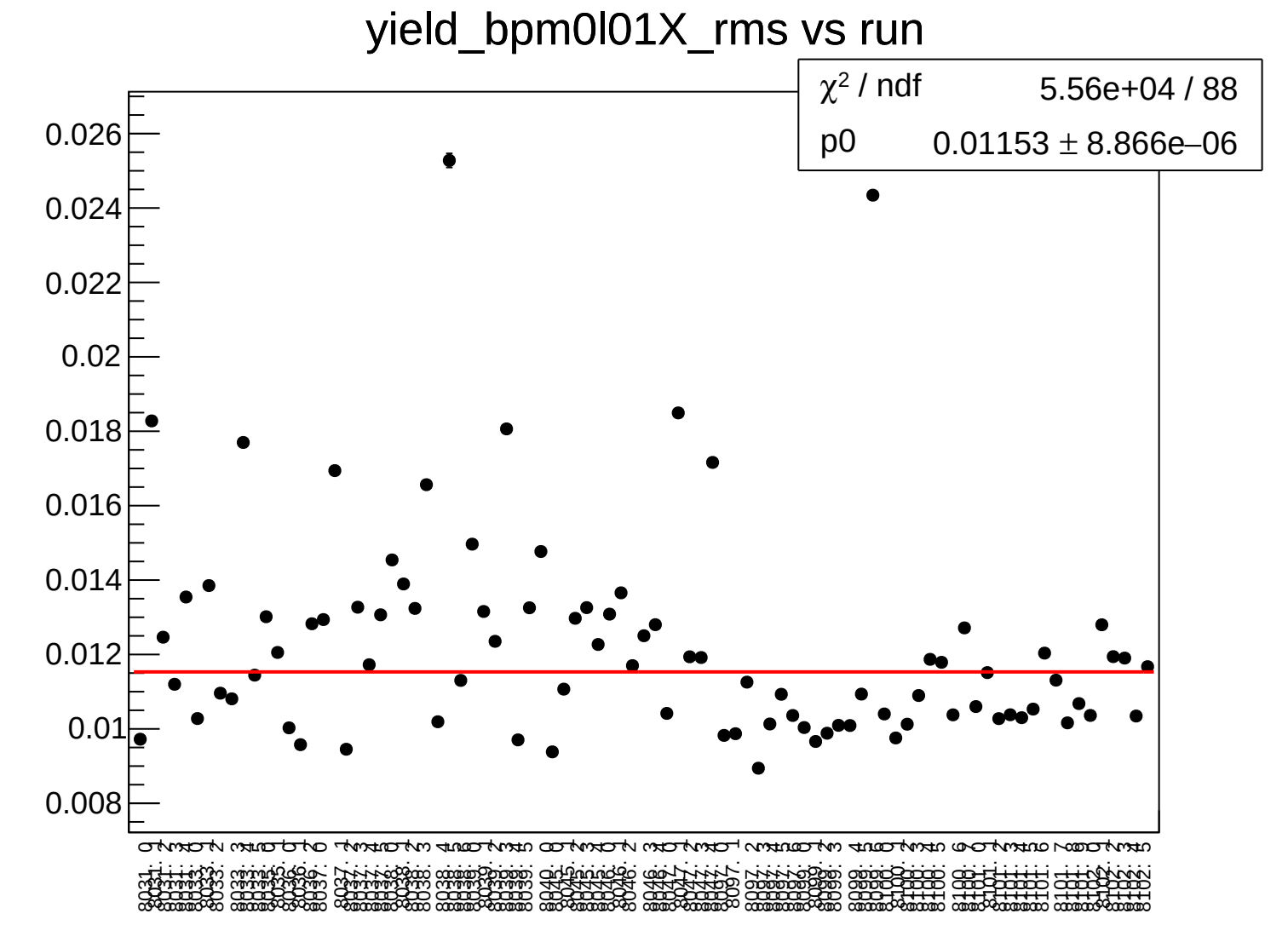

yield_bpm0i01aY_mean vs run
χ² / ndf 1.554e+06 / 88
p0 1.39 ± 6.243e−06
1.41
1.405
1.4
1.395
1.39
1.385
1.38
1.375
pull
Entries 89
Mean −2337
Std Dev 0
300
200
100
0
−100
−200
−300

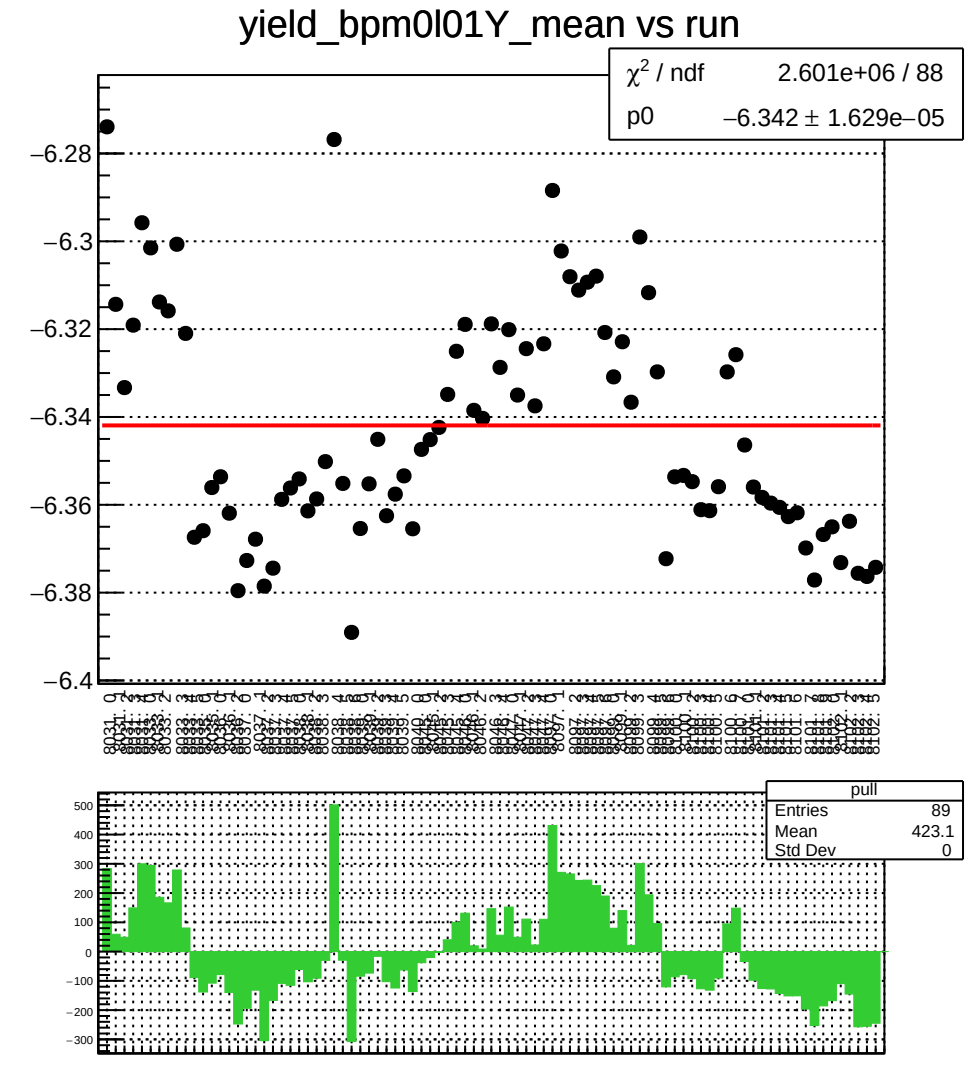

pull1D
Entries 89
Mean 1.735
Std Dev 4.776
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

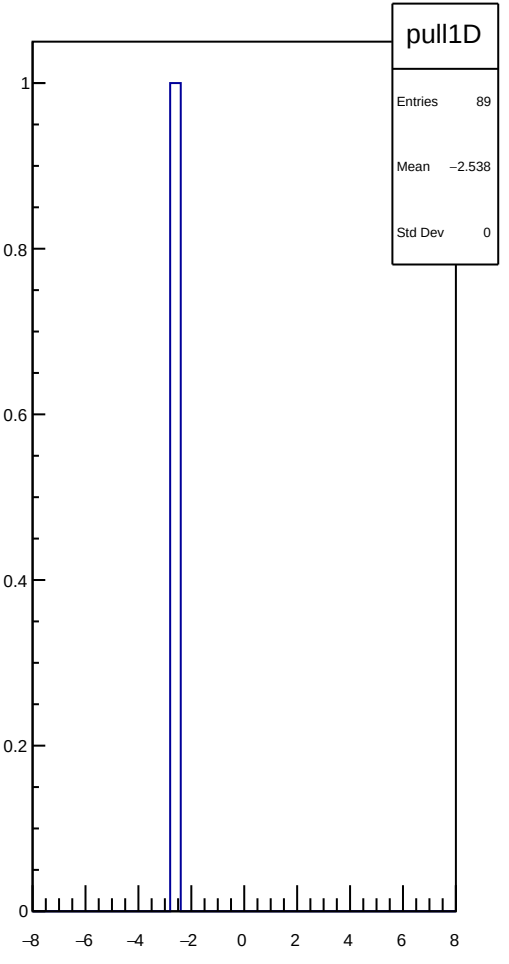

yield_bpm0i01aY_rms vs run
χ² / ndf 1.339e+04 / 88
p0 0.005813 ± 4.415e−06
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005

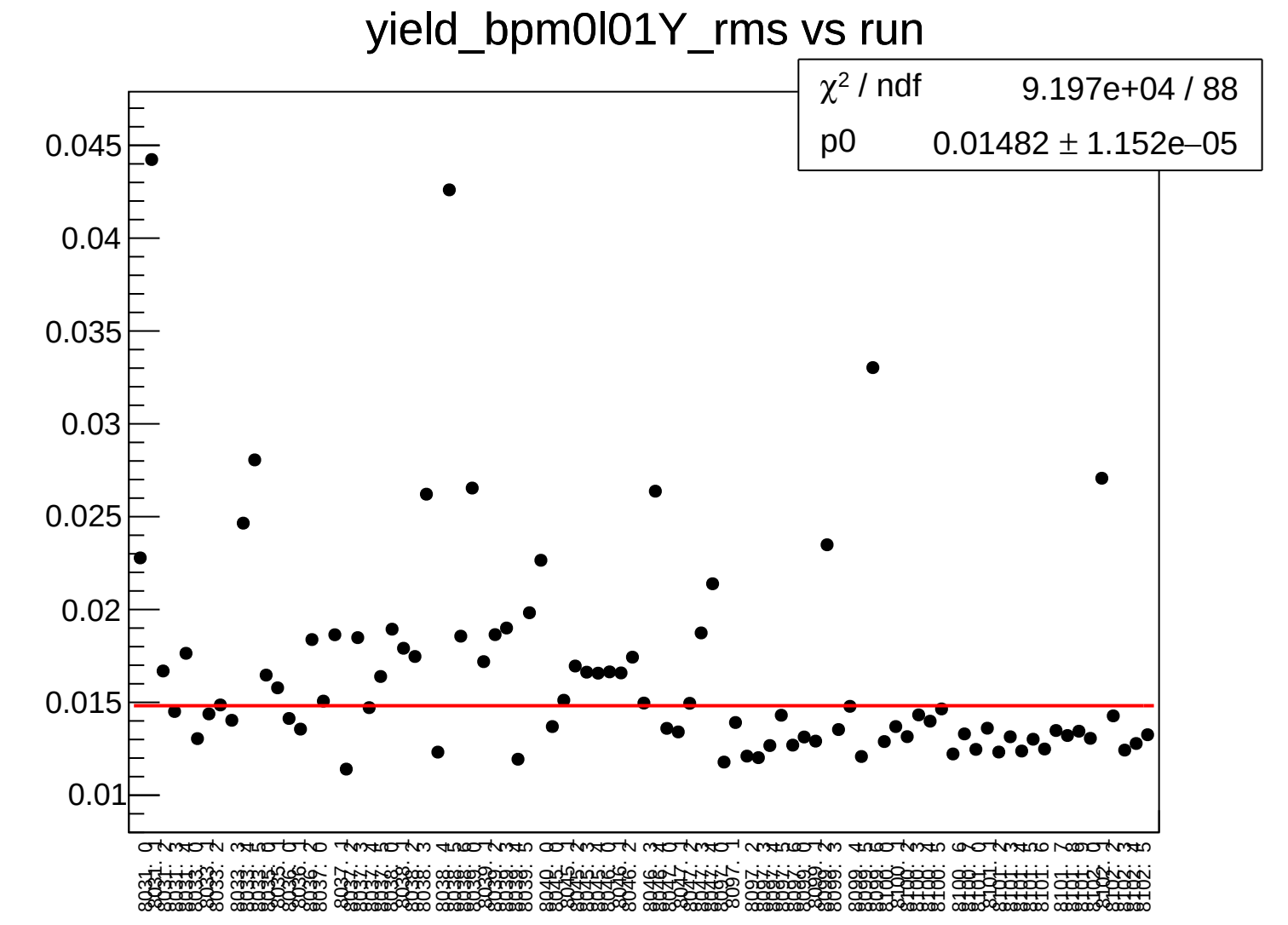

yield_bpm0l01X_mean vs run
χ² / ndf 7.567e+07 / 88
p0 0.6934 ± 1.254e−05
pull
Entries 89
Mean −1116
Std Dev 0

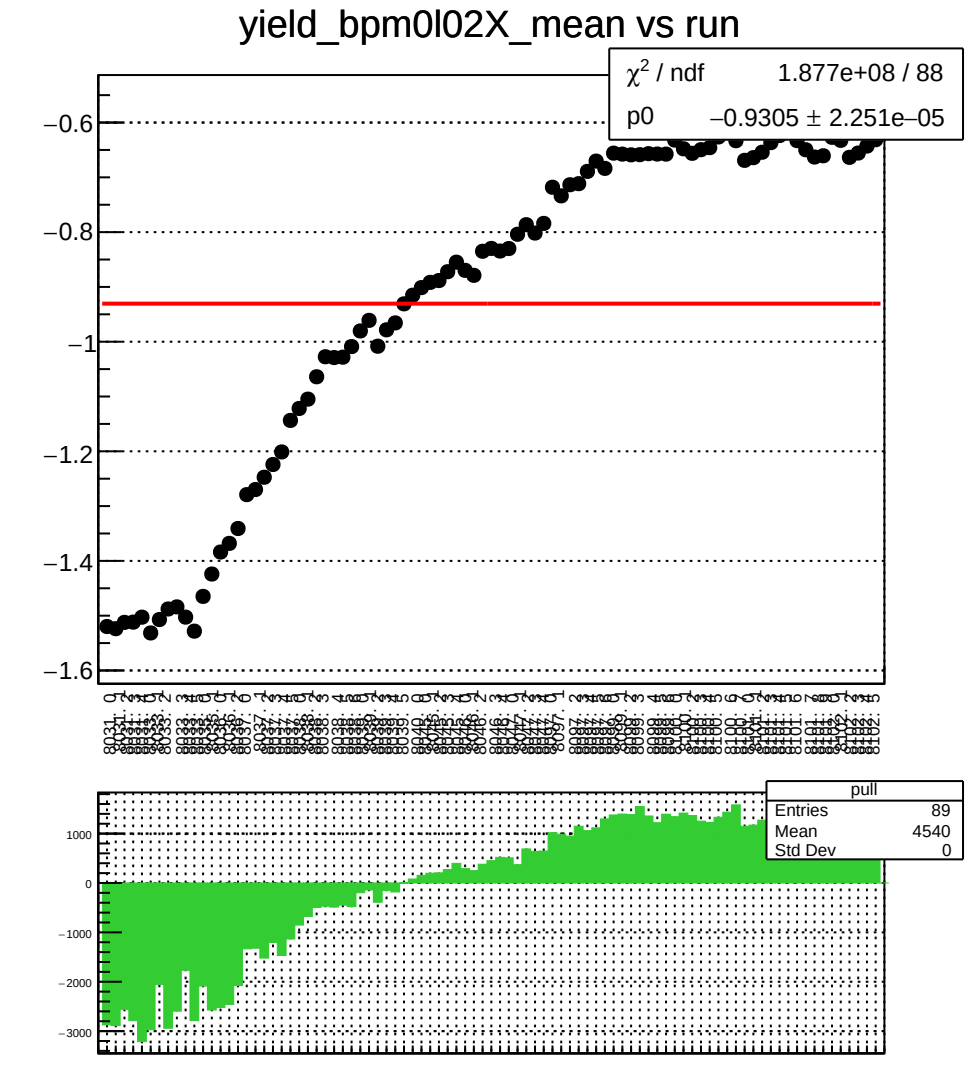

pull1D
Entries 89
Mean 5.764
Std Dev 0

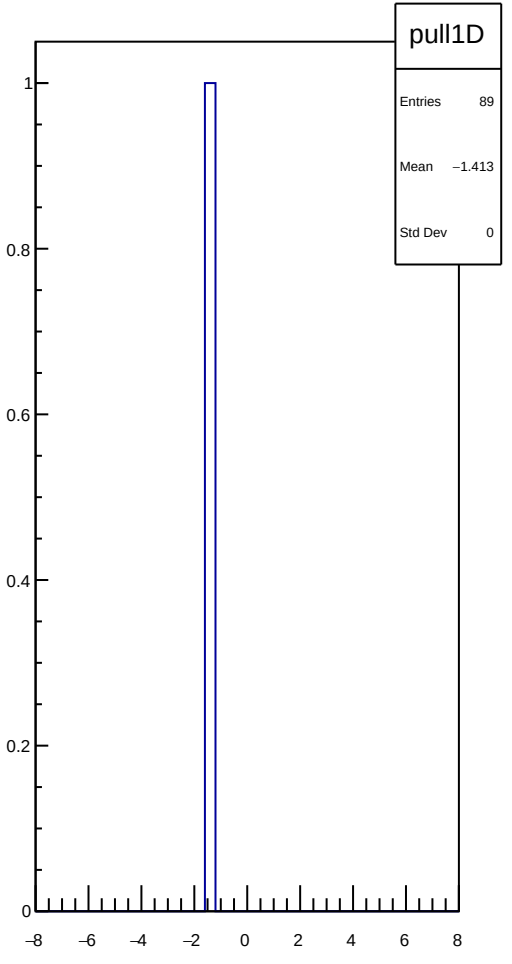

yield_bpm0l01X_rms vs run
χ² / ndf 5.56e+04 / 88
p0 0.01153 ± 8.866e–06
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

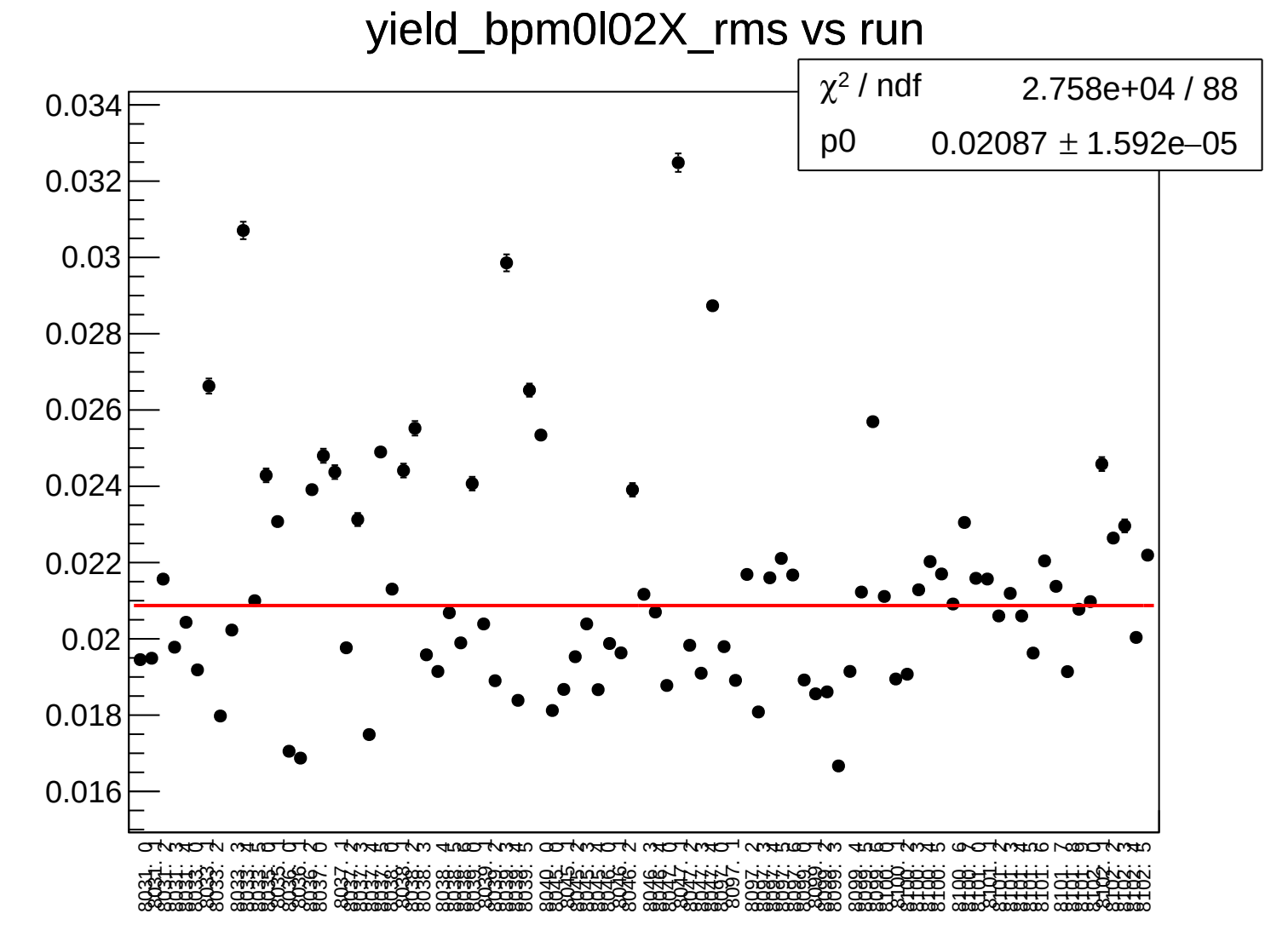

yield_bpm0l01Y_mean vs run
χ² / ndf 2.601e+06 / 88
p0 −6.342 ± 1.629e−05
−6.28
−6.3
−6.32
−6.34
−6.36
−6.38
−6.4
pull
Entries 89
Mean 423.1
Std Dev 0
500
400
300
200
100
0
−100
−200
−300

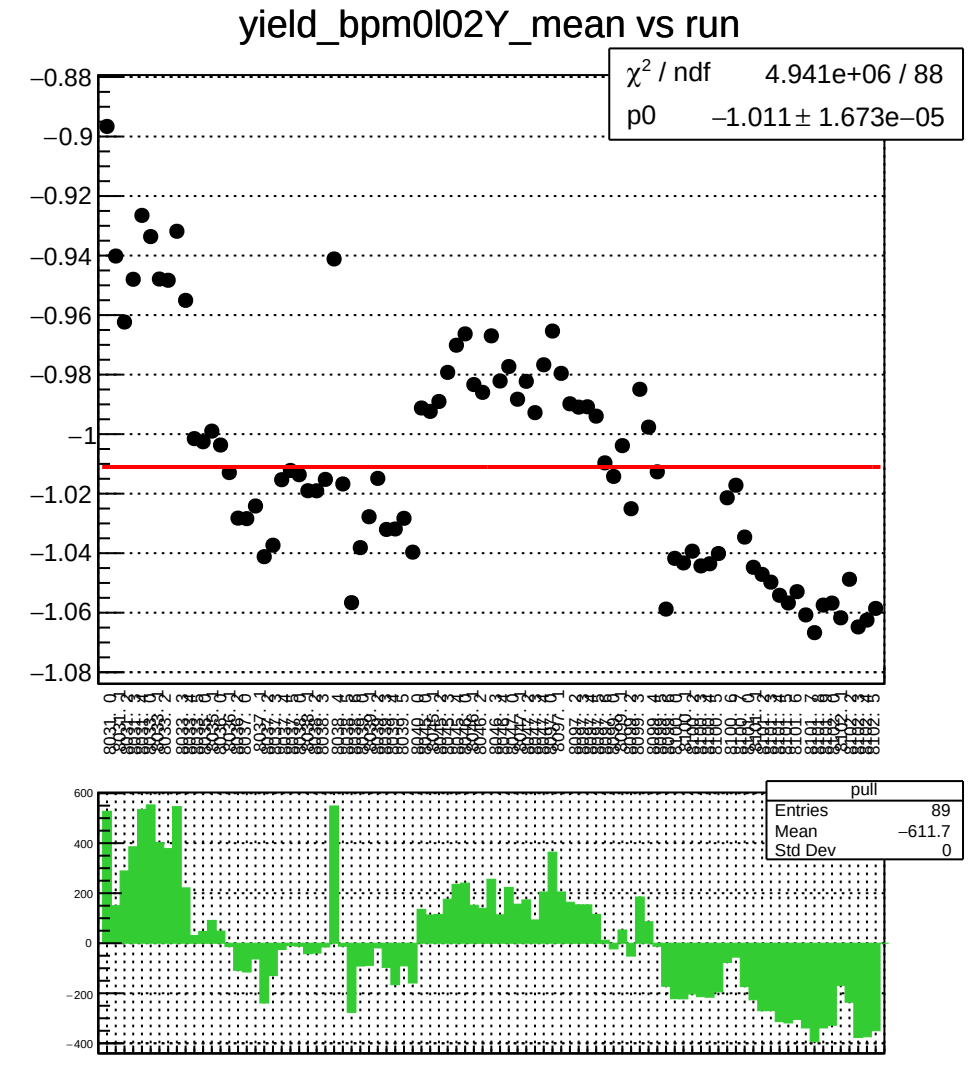

pull1D
Entries 89
Mean −2.538
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

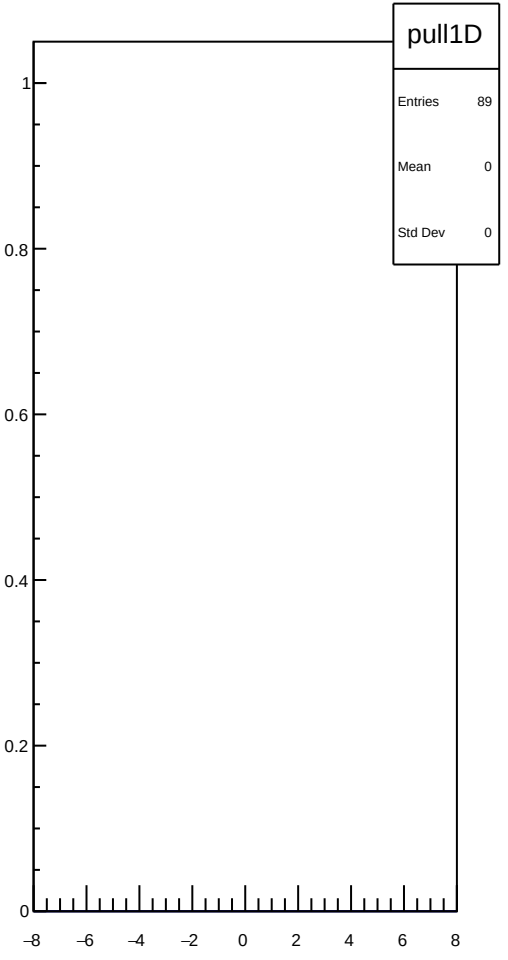

yield_bpm0l01Y_rms vs run
χ² / ndf 9.197e+04 / 88
p0 0.01482 ± 1.152e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

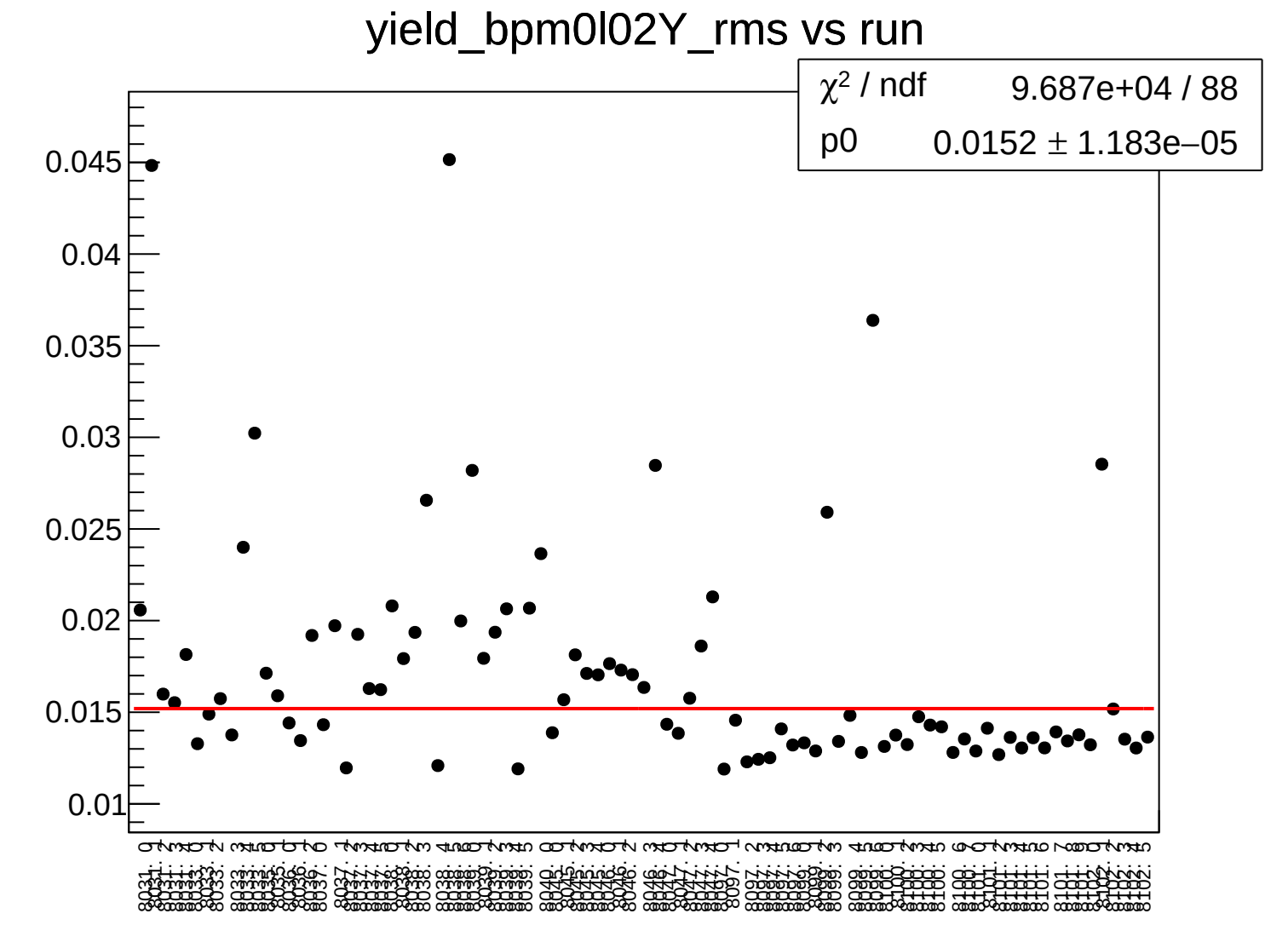

yield_bpm0l02X_mean vs run
χ² / ndf 1.877e+08 / 88
p0 −0.9305 ± 2.251e−05
−0.6
−0.8
−1
−1.2
−1.4
−1.6
pull
Entries 89
Mean 4540
Std Dev 0
1000
0
−1000
−2000
−3000

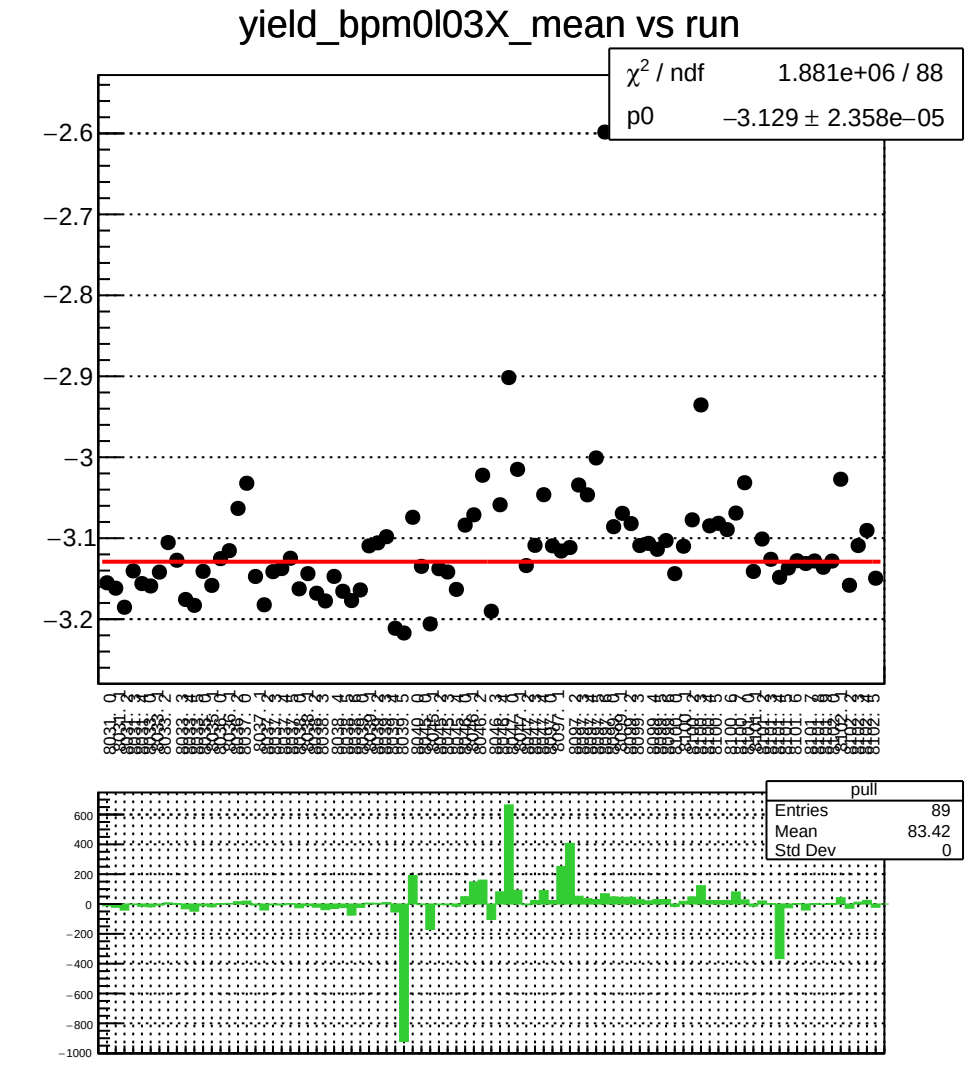

pull1D
Entries 89
Mean −1.413
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

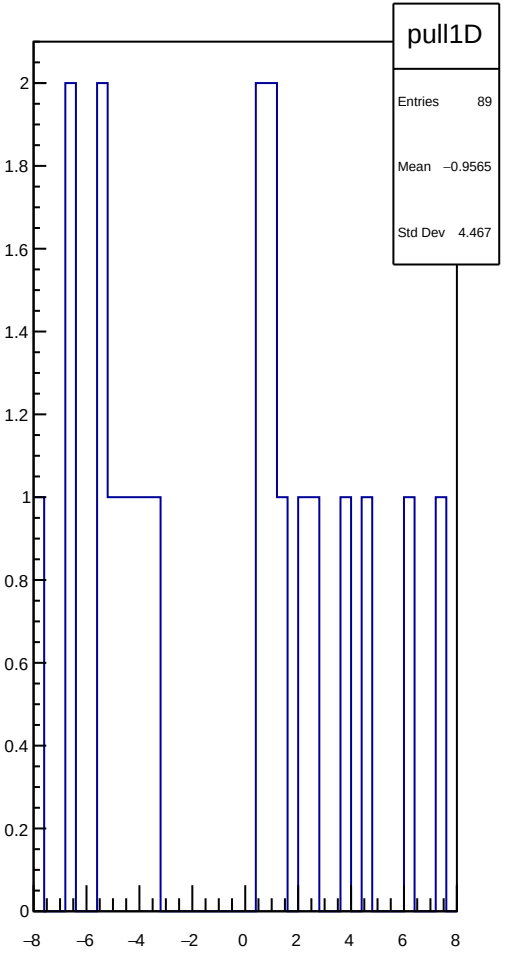

yield_bpm0l02X_rms vs run
χ² / ndf 2.758e+04 / 88
p0 0.02087 ± 1.592e–05
0.034
0.032
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016

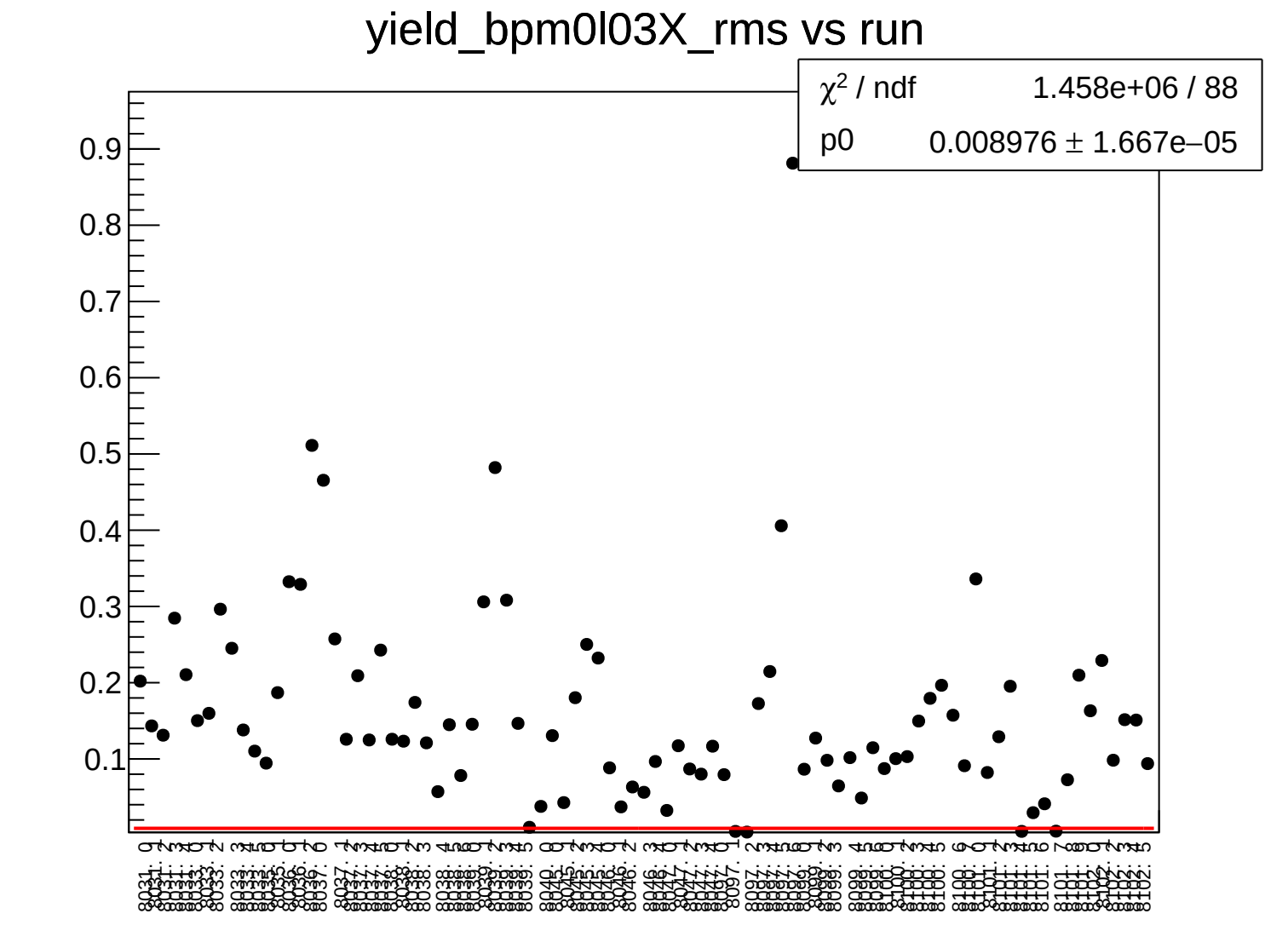

yield_bpm0l02Y_mean vs run
χ² / ndf 4.941e+06 / 88
p0 −1.011 ± 1.673e−05
−0.88
−0.9
−0.92
−0.94
−0.96
−0.98
−1
−1.02
−1.04
−1.06
−1.08
pull
Entries 89
Mean −611.7
Std Dev 0
600
400
200
0
−200
−400

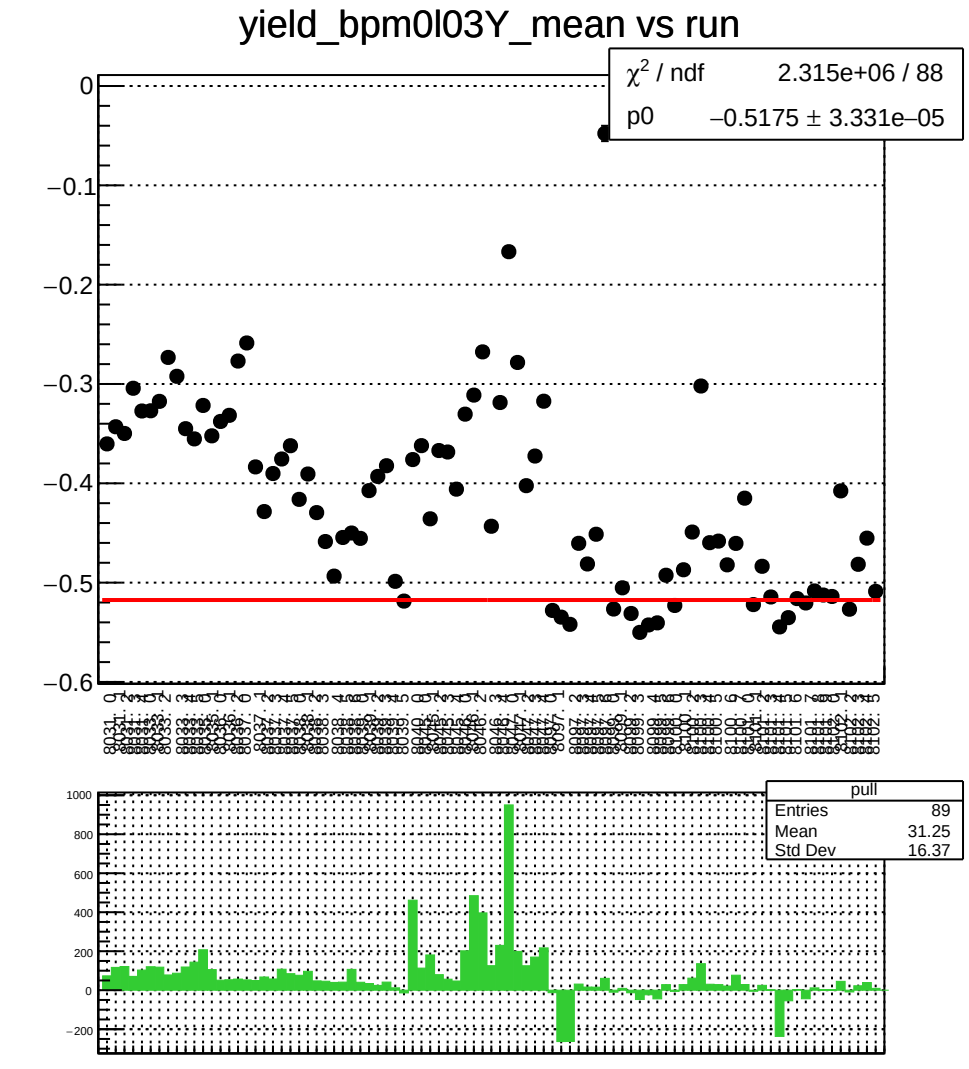

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

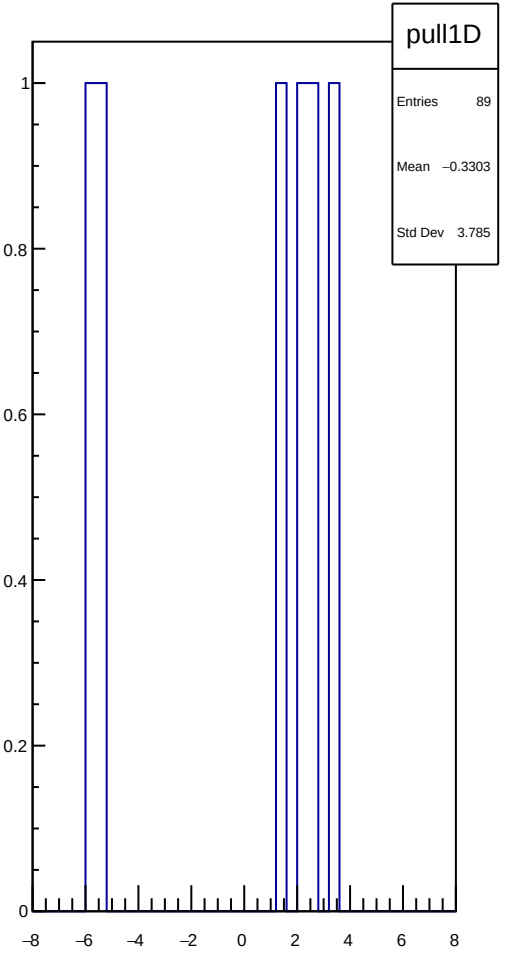

yield_bpm0l02Y_rms vs run
χ² / ndf 9.687e+04 / 88
p0 0.0152 ± 1.183e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

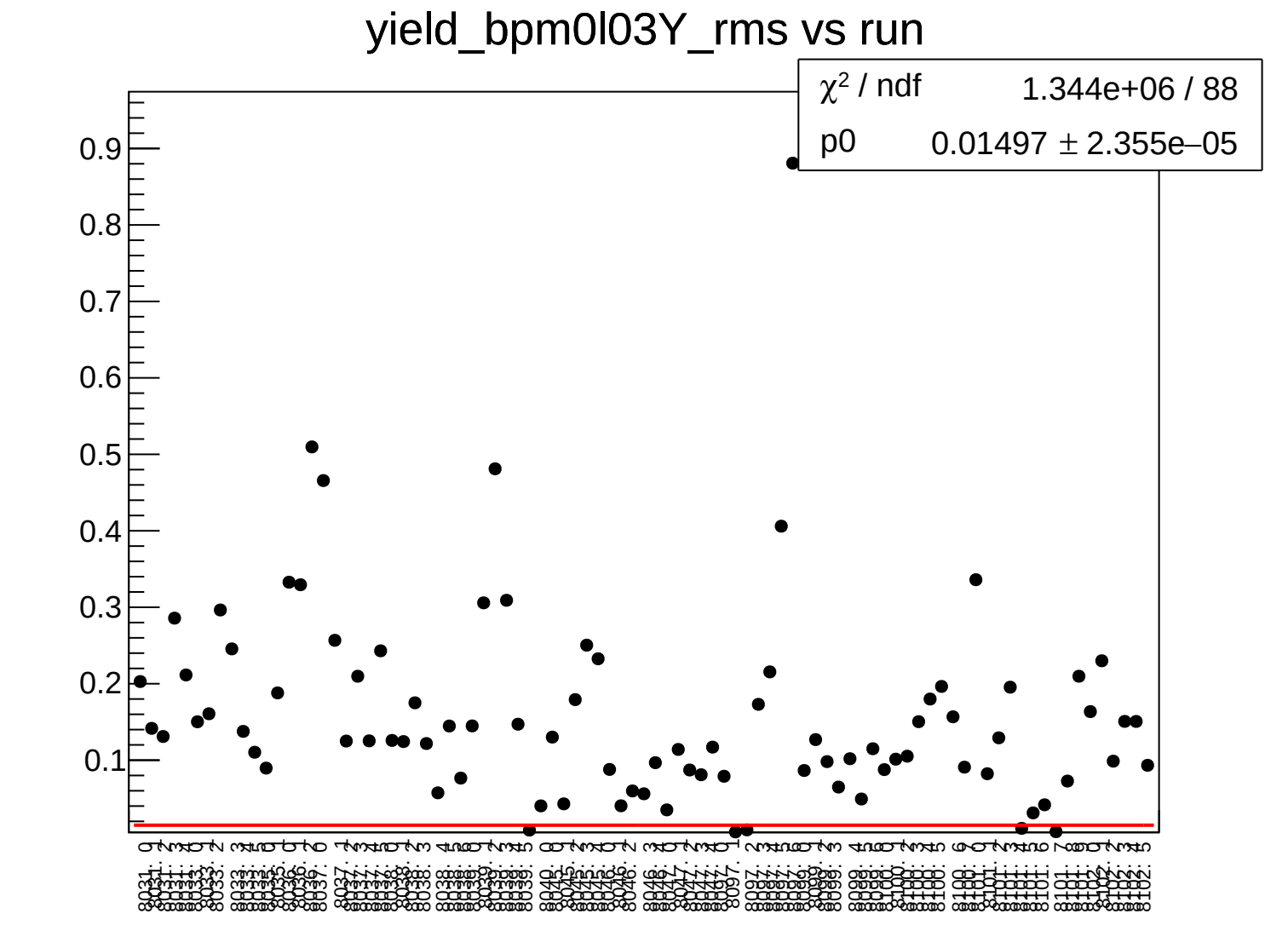

yield_bpm0l03X_mean vs run
χ² / ndf 1.881e+06 / 88
p0 −3.129 ± 2.358e−05
−2.6
−2.7
−2.8
−2.9
−3
−3.1
−3.2
pull
Entries 89
Mean 83.42
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000

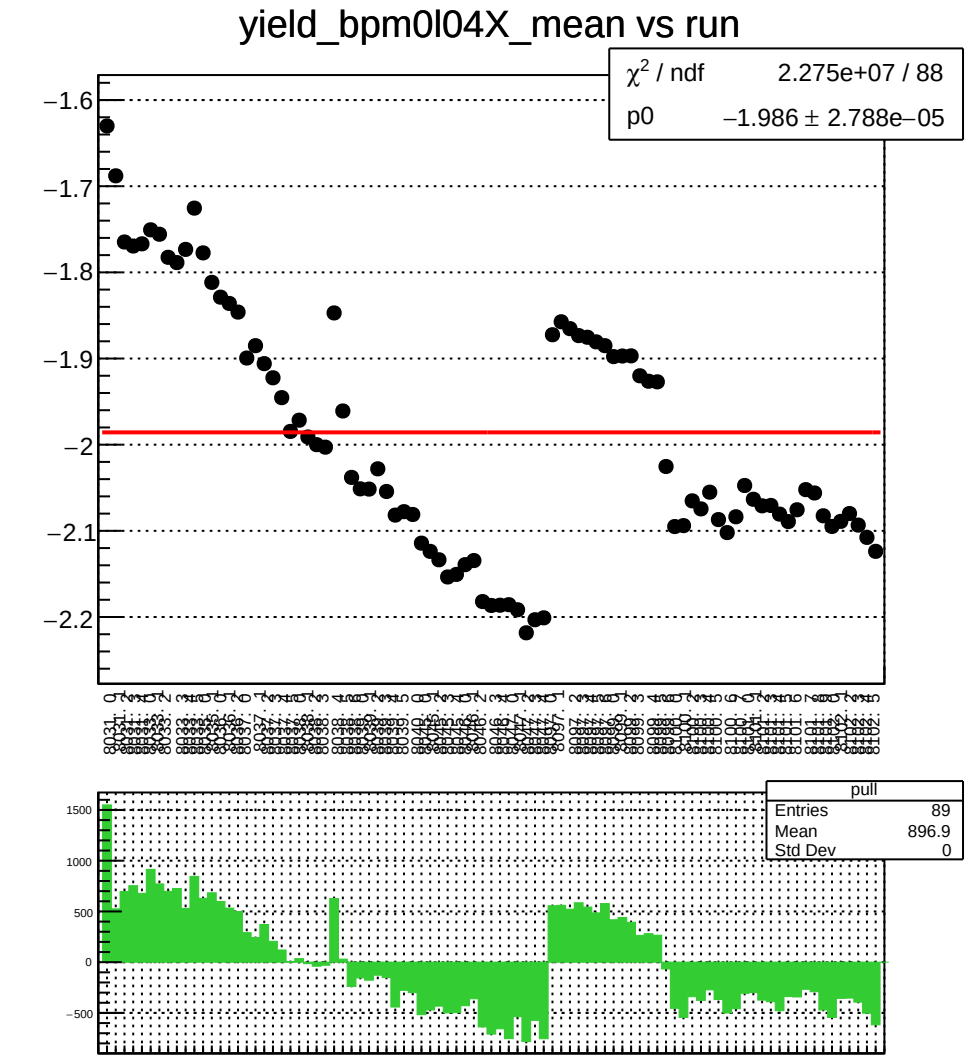

pull1D
Entries 89
Mean −0.9565
Std Dev 4.467
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

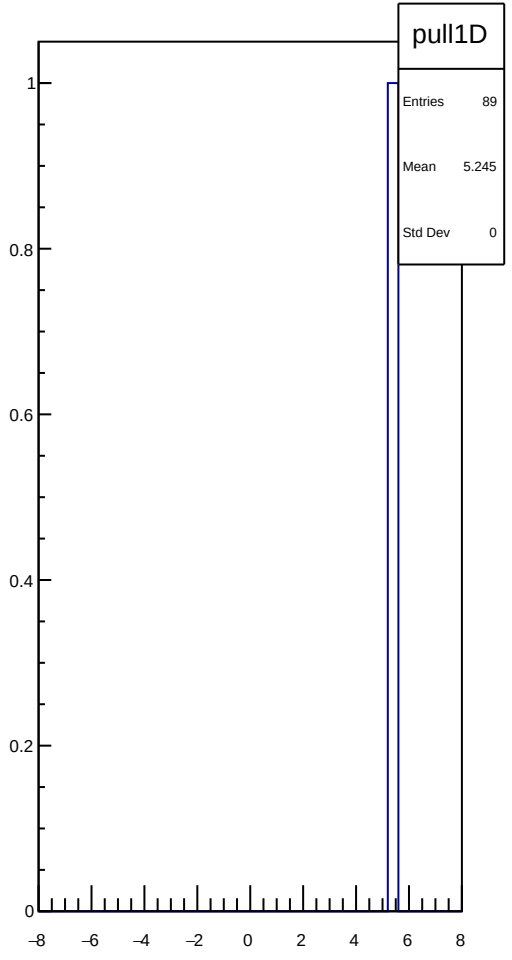

yield_bpm0l03X_rms vs run
χ² / ndf 1.458e+06 / 88
p0 0.008976 ± 1.667e−05
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

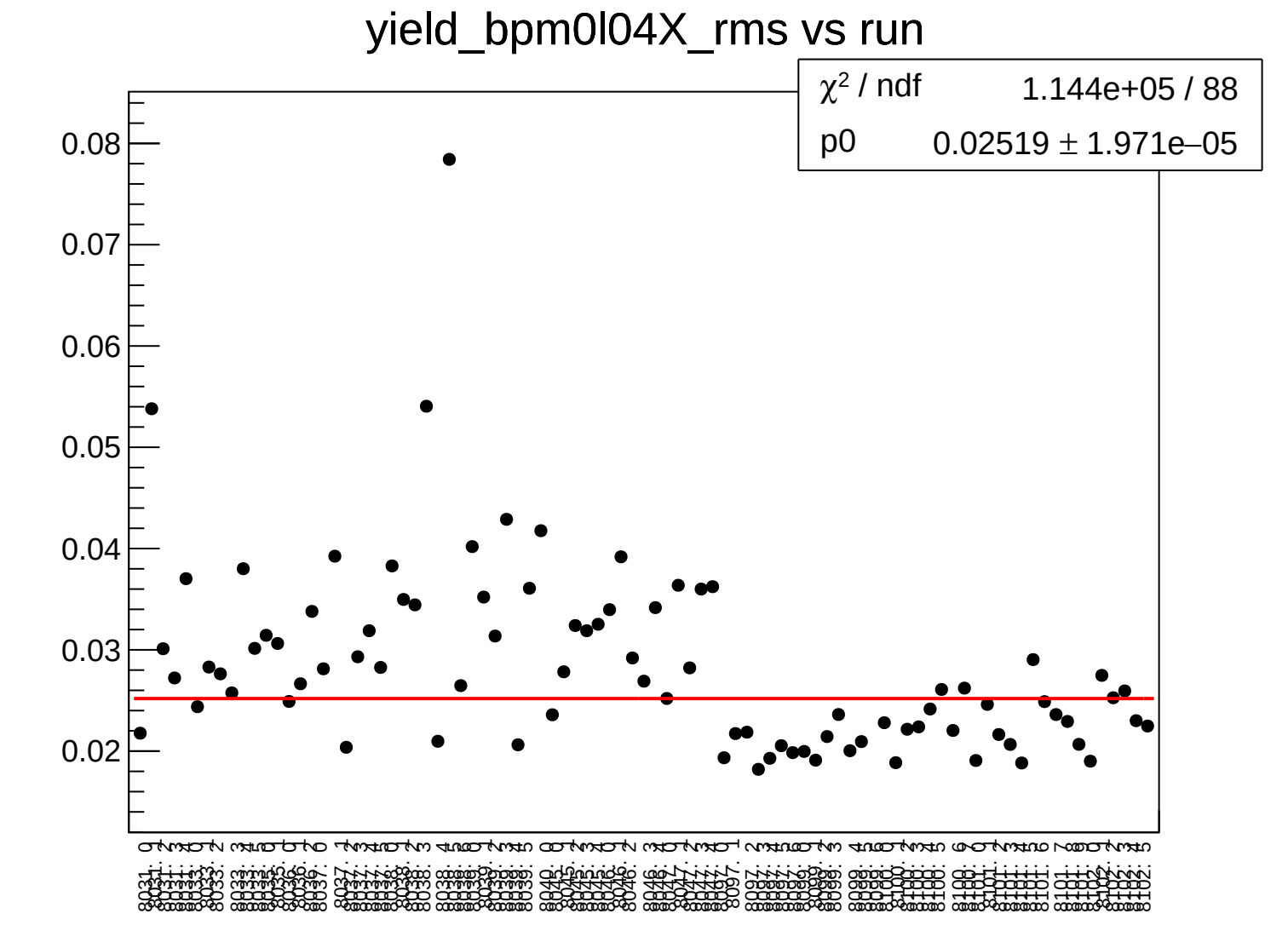

yield_bpm0l03Y_mean vs run
χ² / ndf 2.315e+06 / 88
p0 −0.5175 ± 3.331e−05
pull
Entries 89
Mean 31.25
Std Dev 16.37

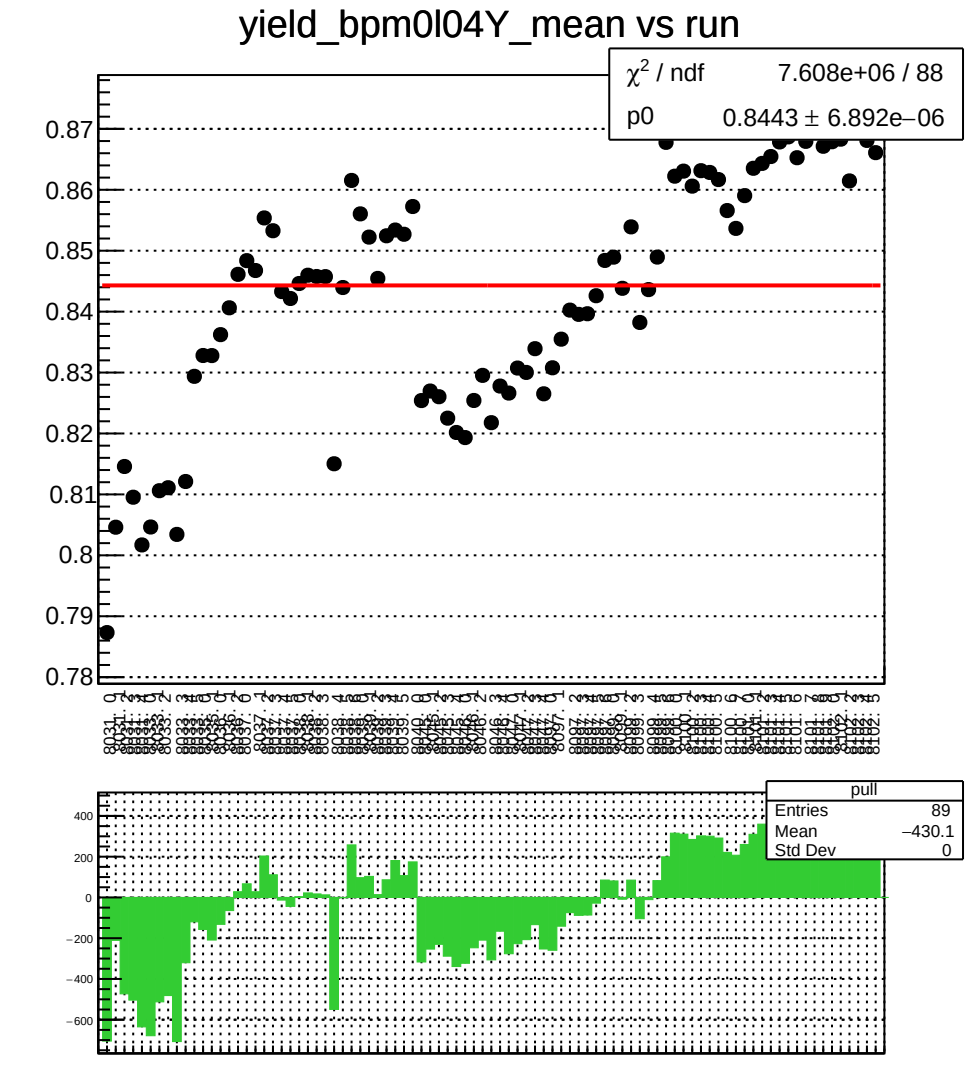

pull1D
Entries 89
Mean −0.3303
Std Dev 3.785

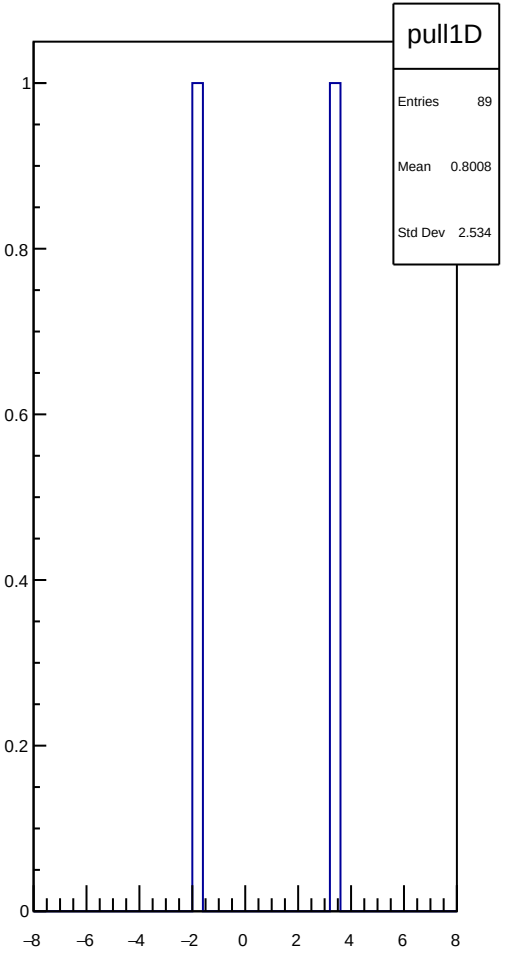

yield_bpm0l03Y_rms vs run
χ² / ndf 1.344e+06 / 88
p0 0.01497 ± 2.355e–05
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

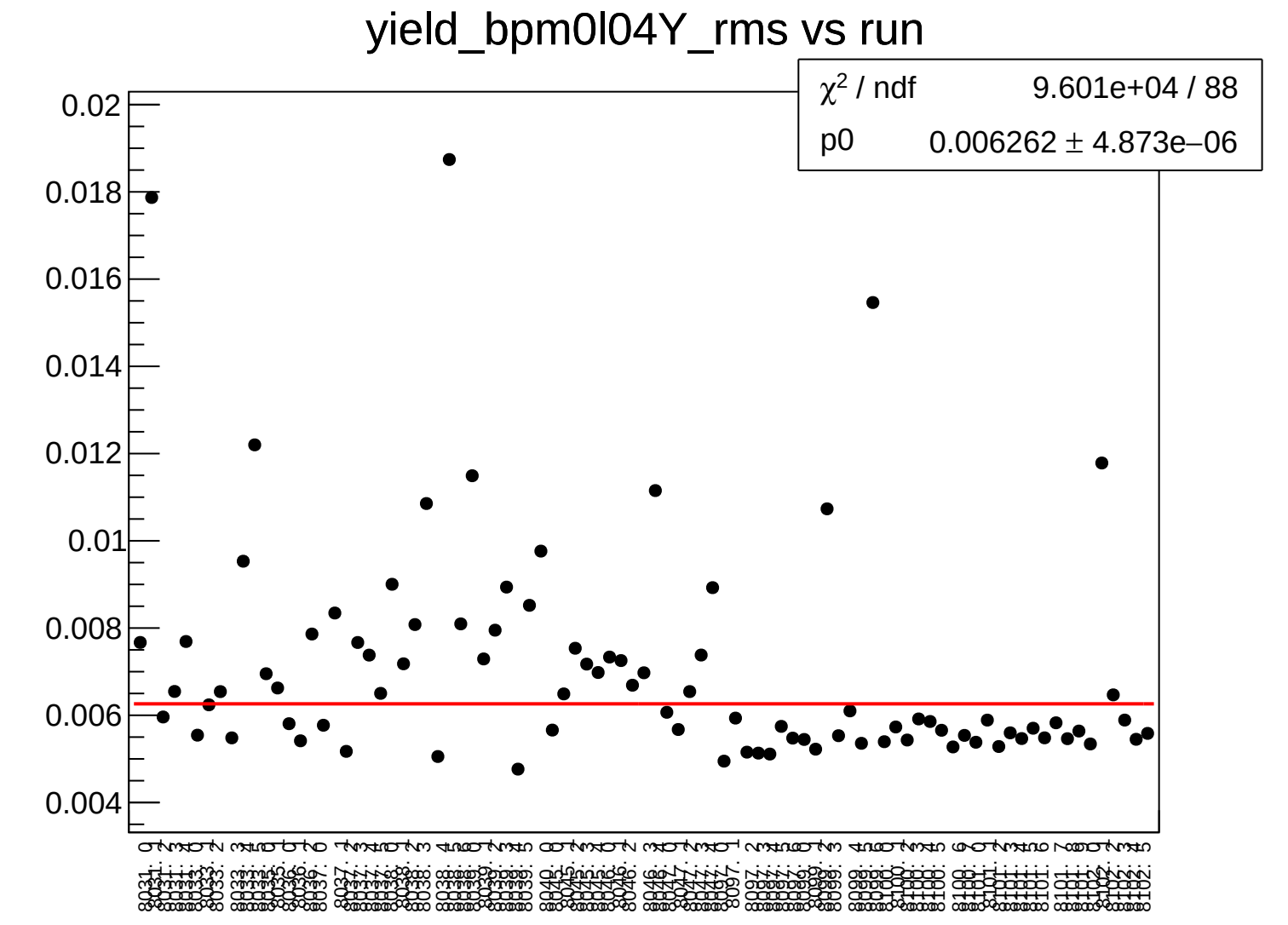

yield_bpm0l04X_mean vs run
χ² / ndf 2.275e+07 / 88
p0 −1.986 ± 2.788e−05
−1.6
−1.7
−1.8
−1.9
−2
−2.1
−2.2
pull
Entries 89
Mean 896.9
Std Dev 0
1500
1000
500
0
−500

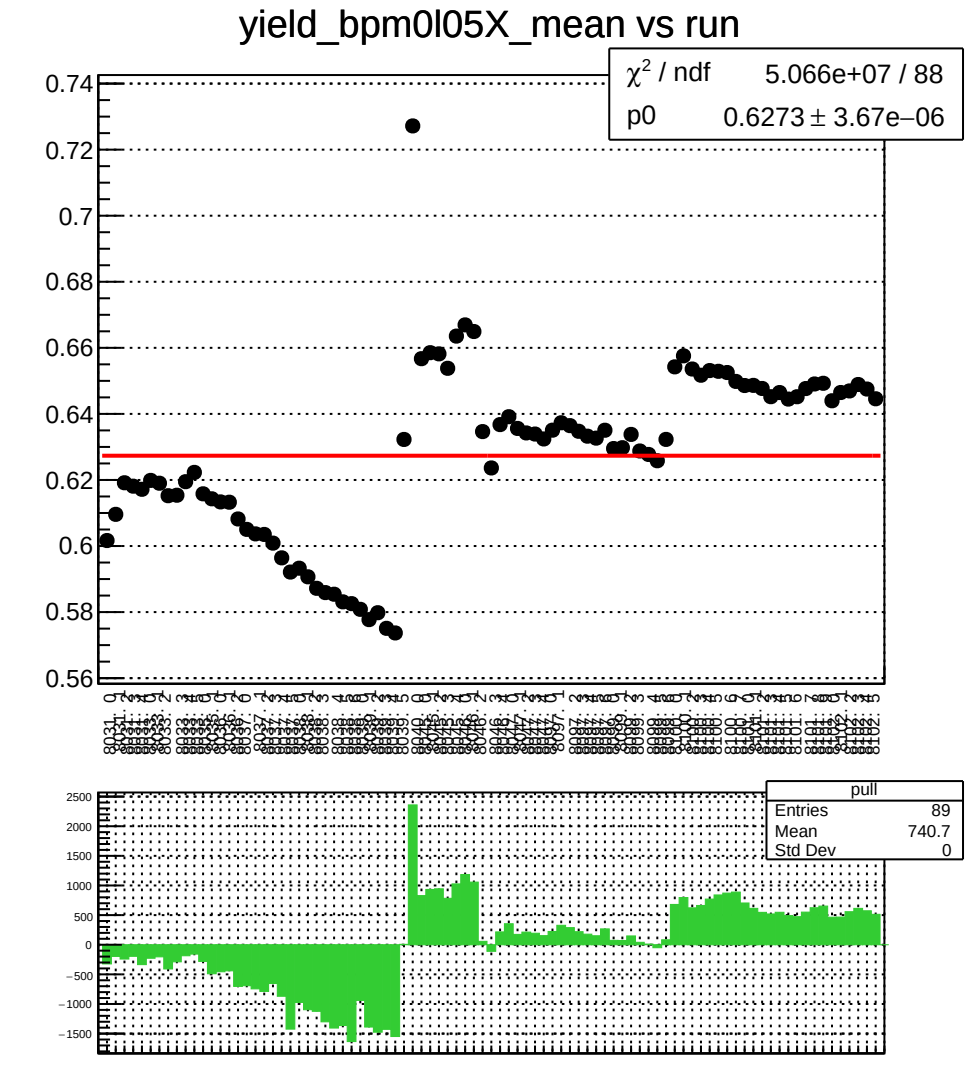

pull1D
Entries 89
Mean 5.245
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

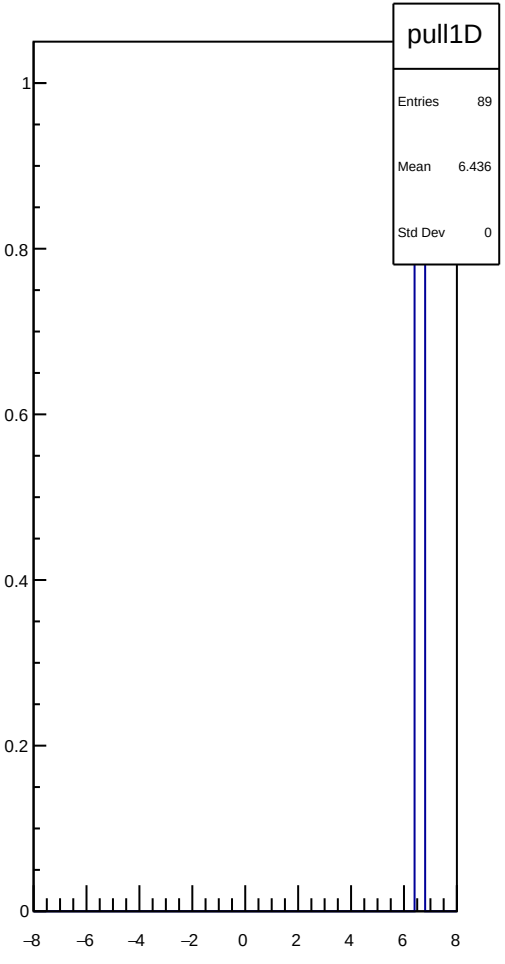

yield_bpm0l04X_rms vs run
χ² / ndf 1.144e+05 / 88
p0 0.02519 ± 1.971e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02

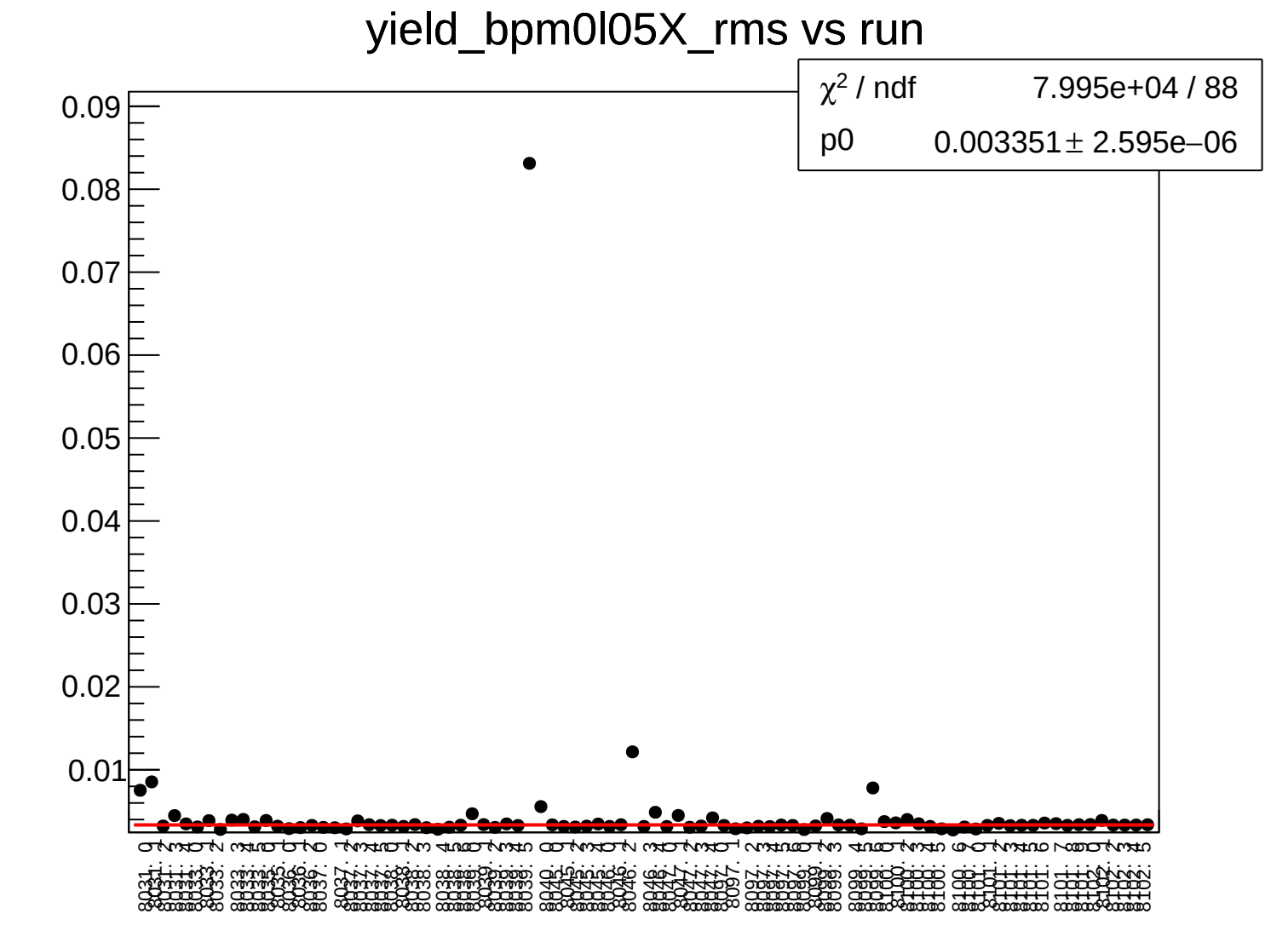

yield_bpm0l04Y_mean vs run
χ² / ndf 7.608e+06 / 88
p0 0.8443 ± 6.892e−06
0.87
0.86
0.85
0.84
0.83
0.82
0.81
0.8
0.79
0.78
pull
Entries 89
Mean −430.1
Std Dev 0
400
200
0
−200
−400
−600

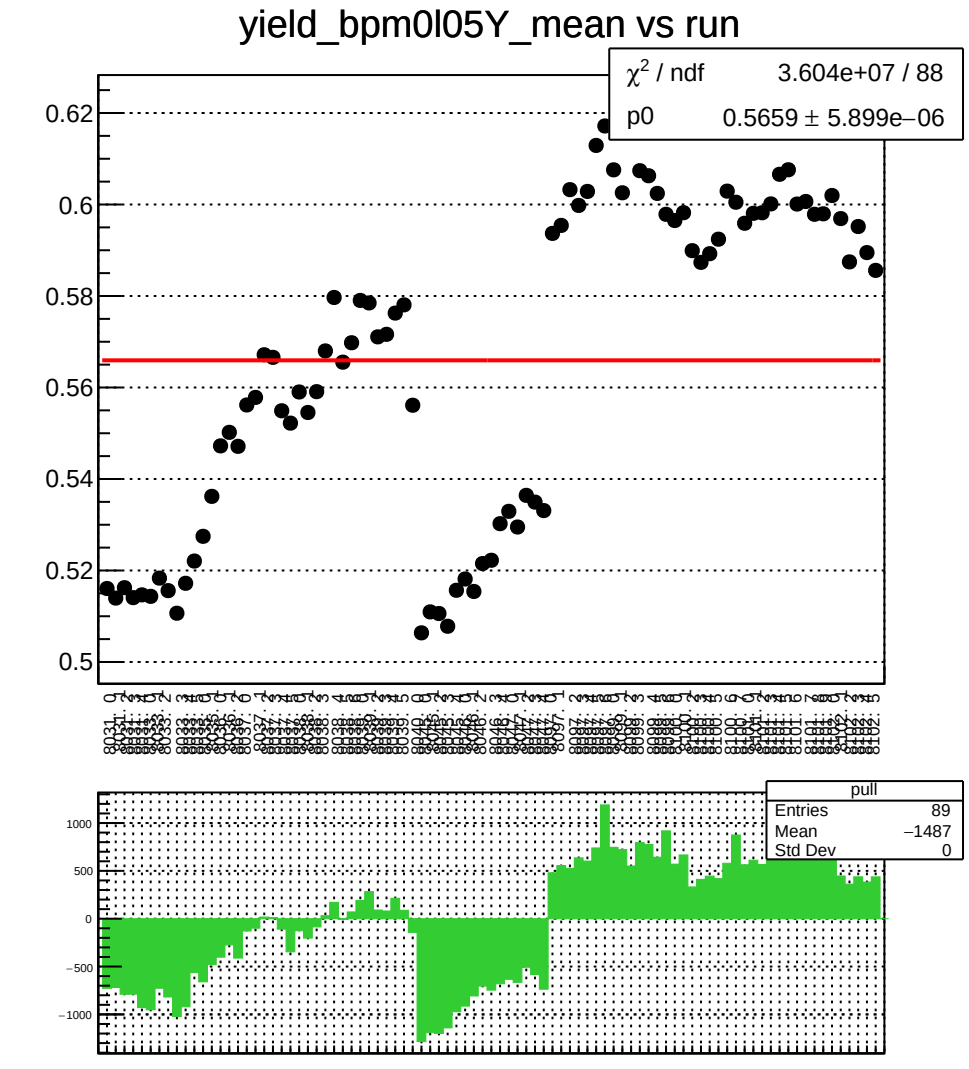

pull1D
Entries 89
Mean 0.8008
Std Dev 2.534
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

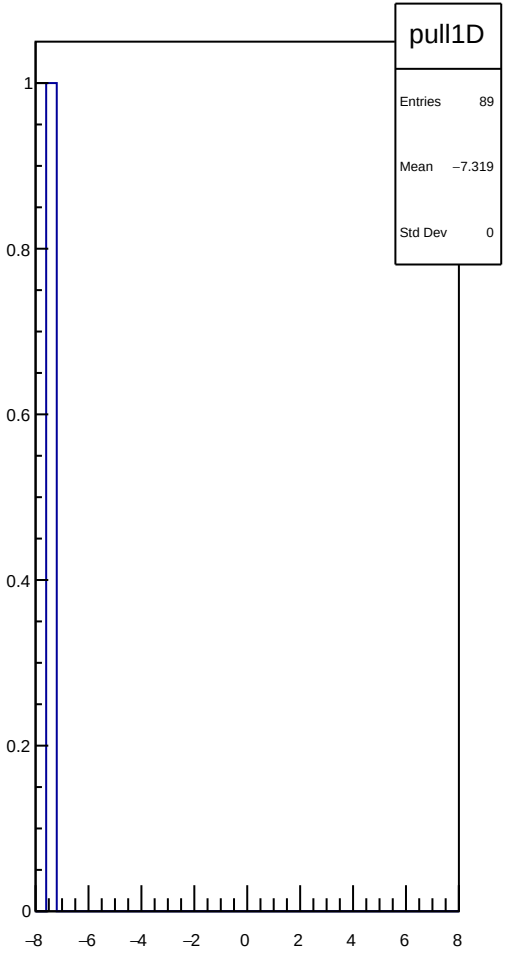

yield_bpm0l04Y_rms vs run
$\chi^2$ / ndf 9.601e+04 / 88
p0 0.006262 ± 4.873e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

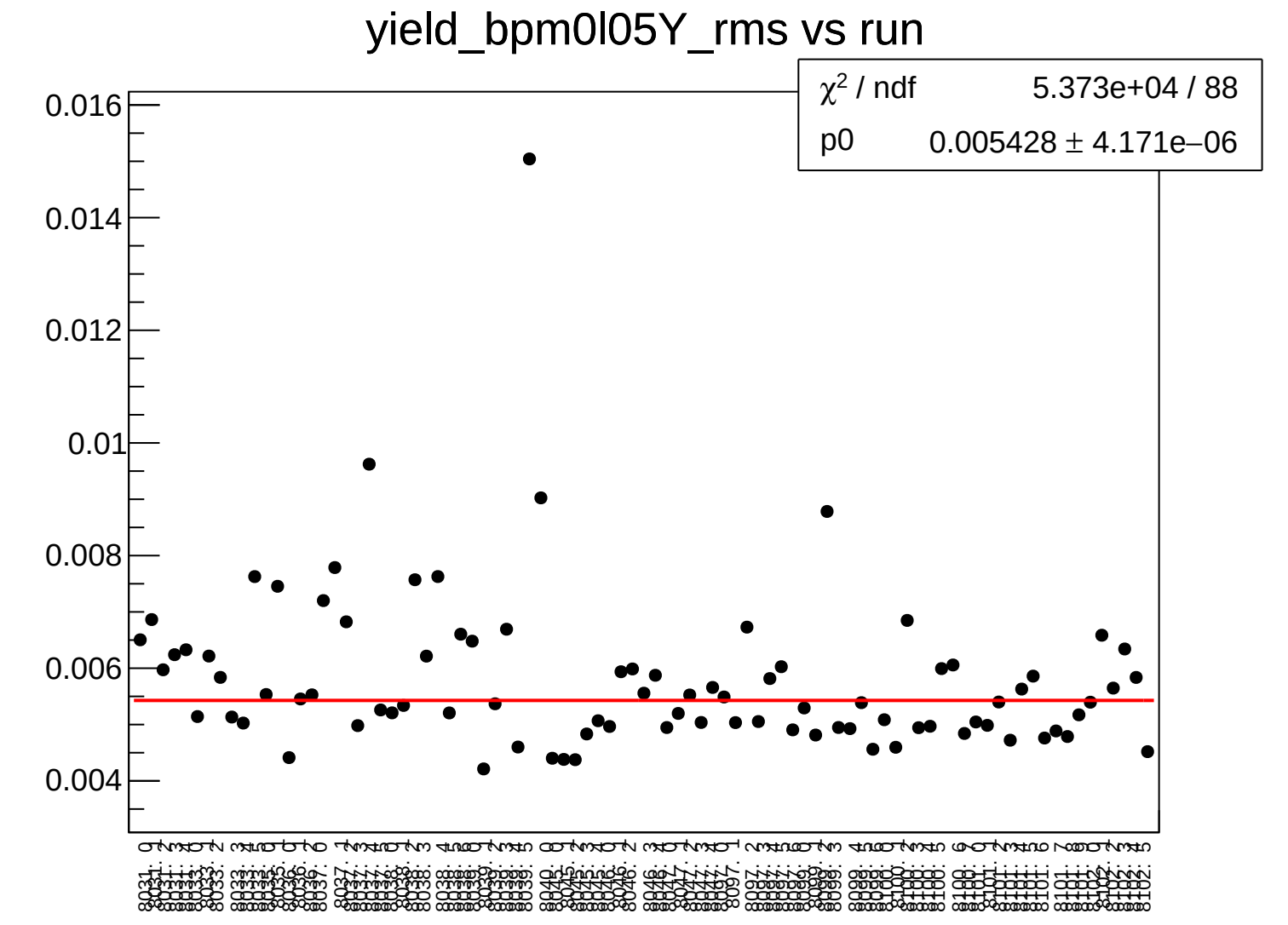

yield_bpm0l05X_mean vs run
χ² / ndf 5.066e+07 / 88
p0 0.6273 ± 3.67e−06
pull
Entries 89
Mean 740.7
Std Dev 0

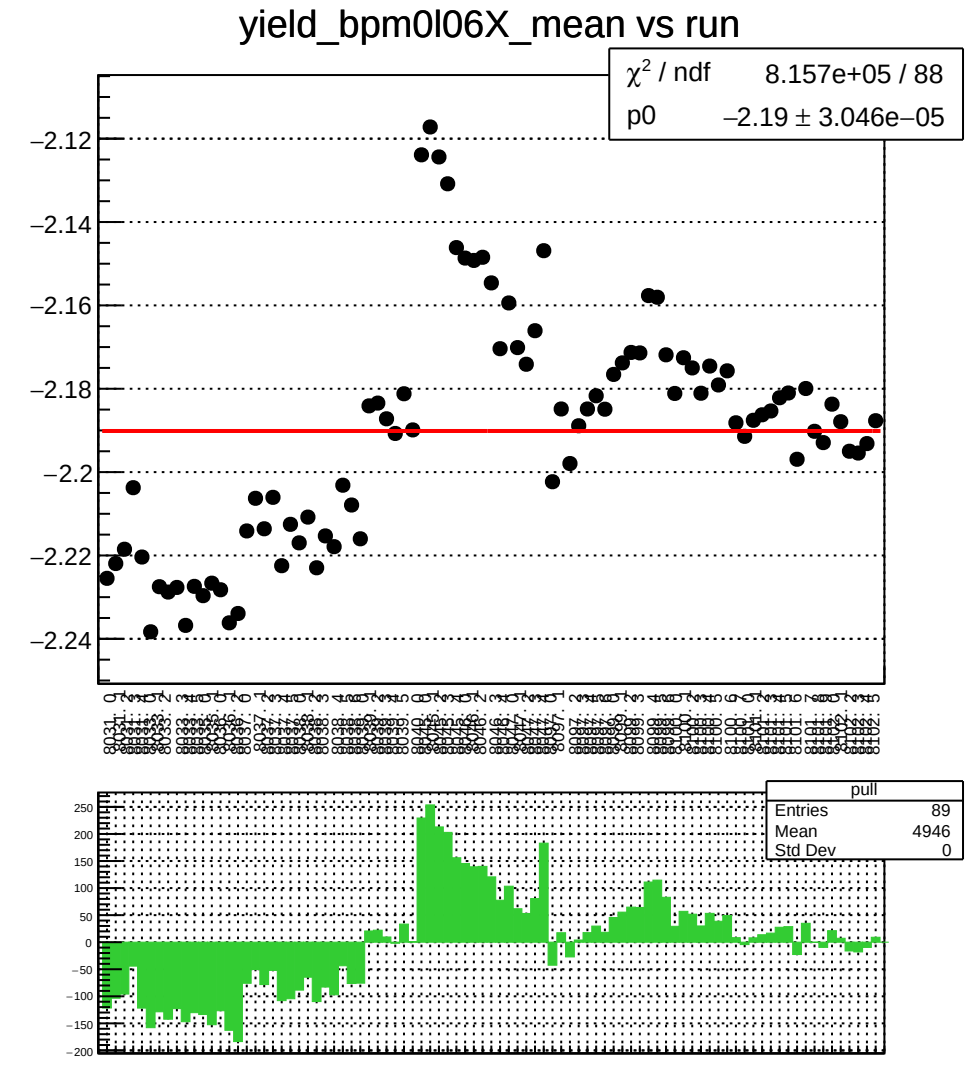

pull1D
Entries 89
Mean 6.436
Std Dev 0

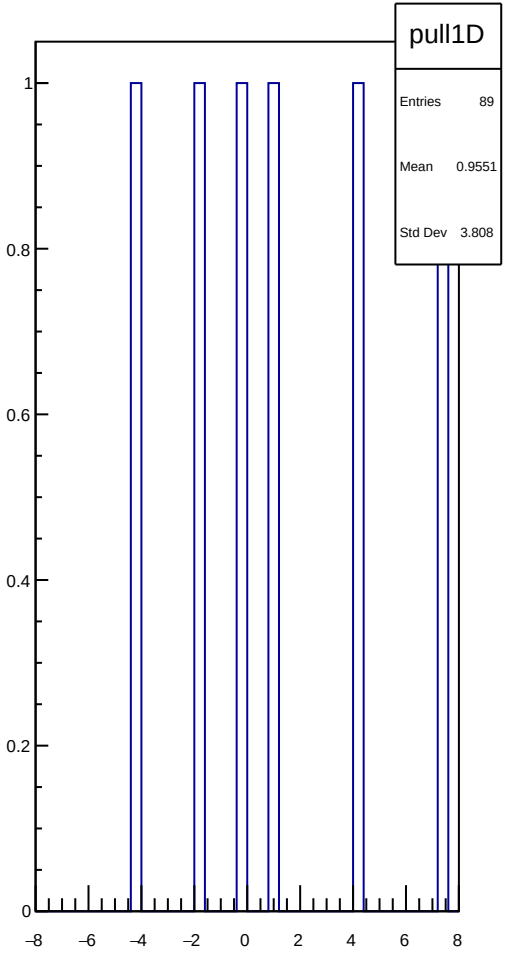

yield_bpm0l05X_rms vs run
χ² / ndf 7.995e+04 / 88
p0 0.003351 ± 2.595e−06
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

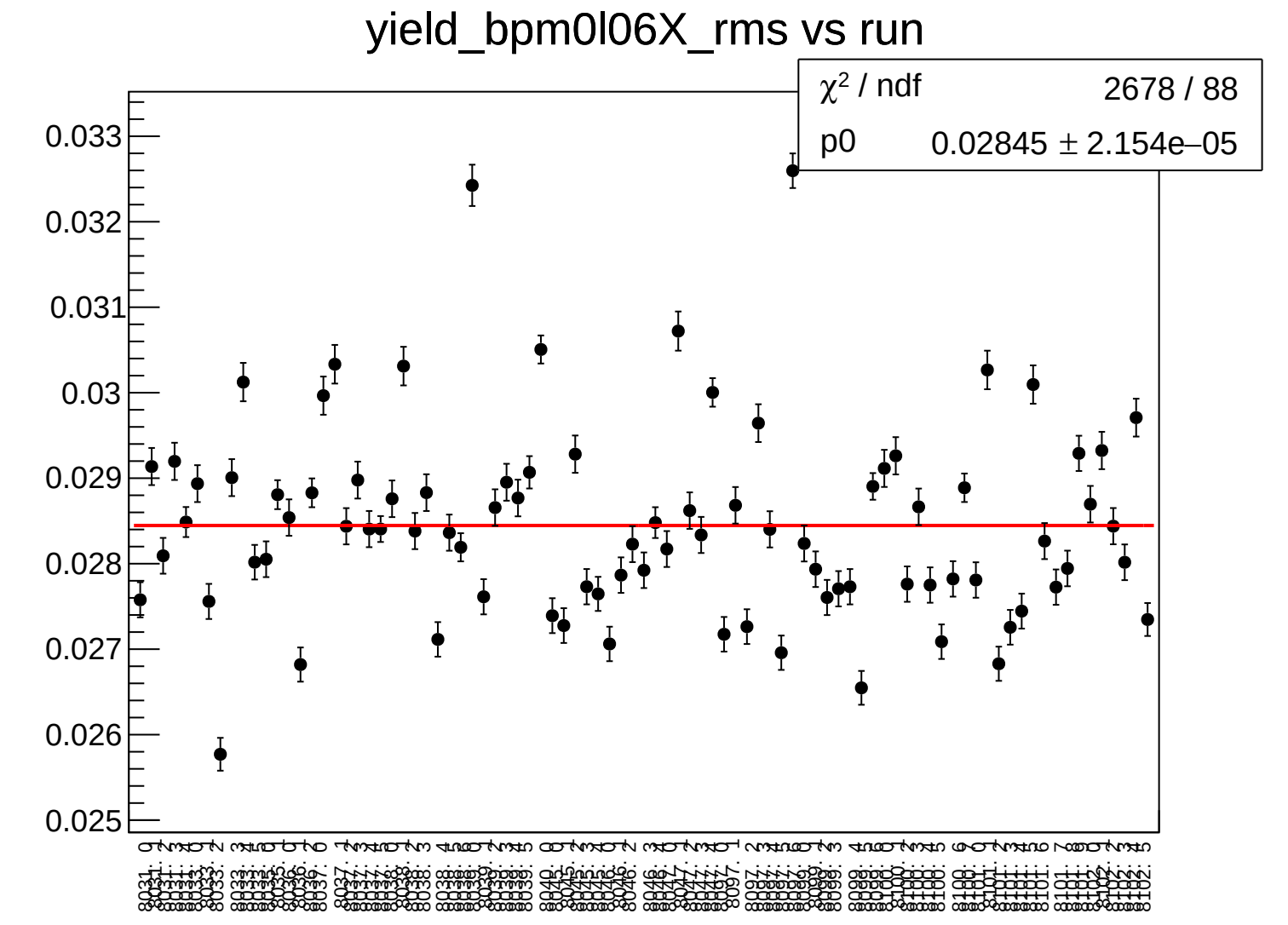

yield_bpm0l05Y_mean vs run
χ² / ndf 3.604e+07 / 88
p0 0.5659 ± 5.899e−06
0.62
0.6
0.58
0.56
0.54
0.52
0.5
pull
Entries 89
Mean −1487
Std Dev 0
1000
500
0
−500
−1000

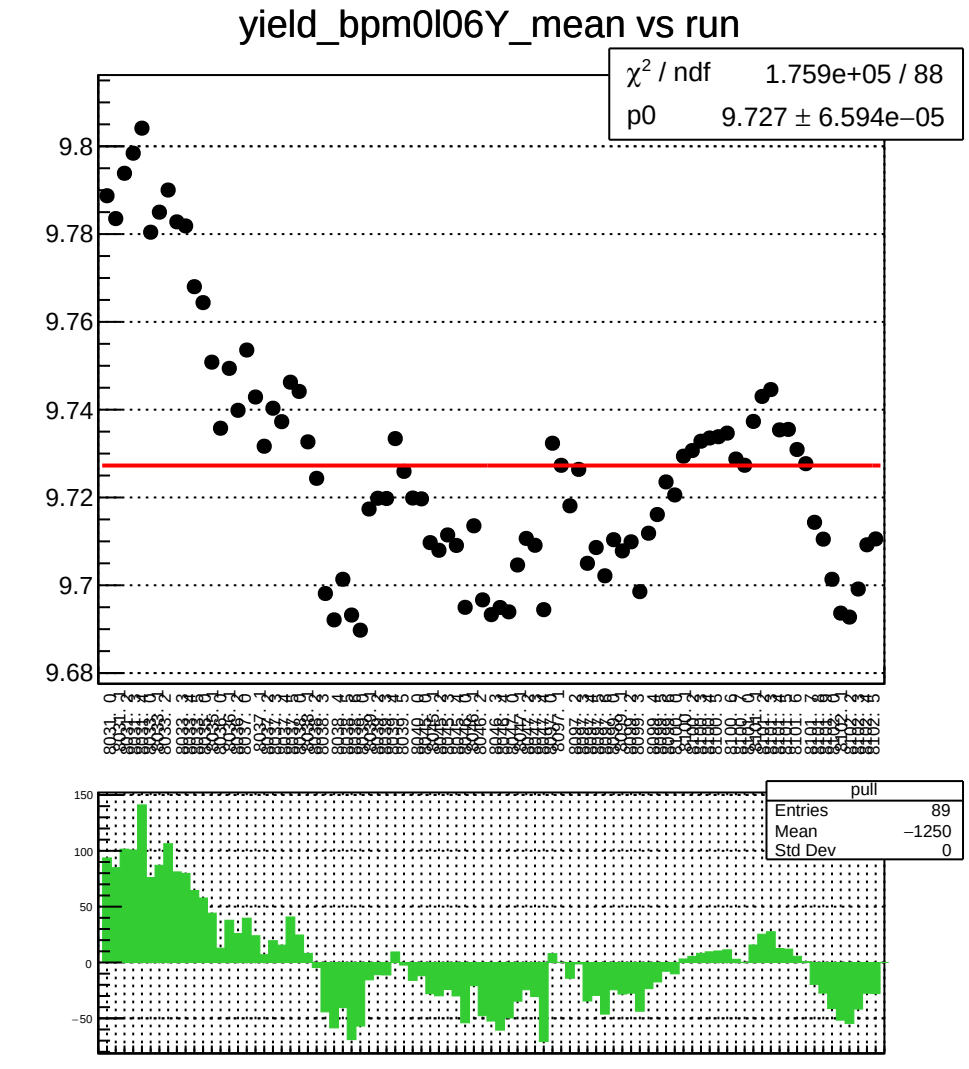

pull1D
Entries 89
Mean −7.319
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

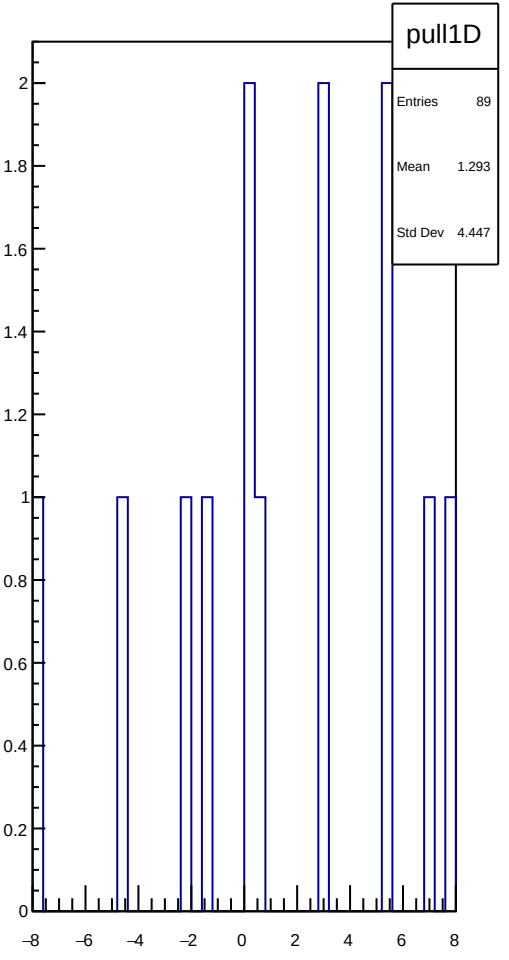

yield_bpm0l05Y_rms vs run
χ² / ndf 5.373e+04 / 88
p0 0.005428 ± 4.171e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

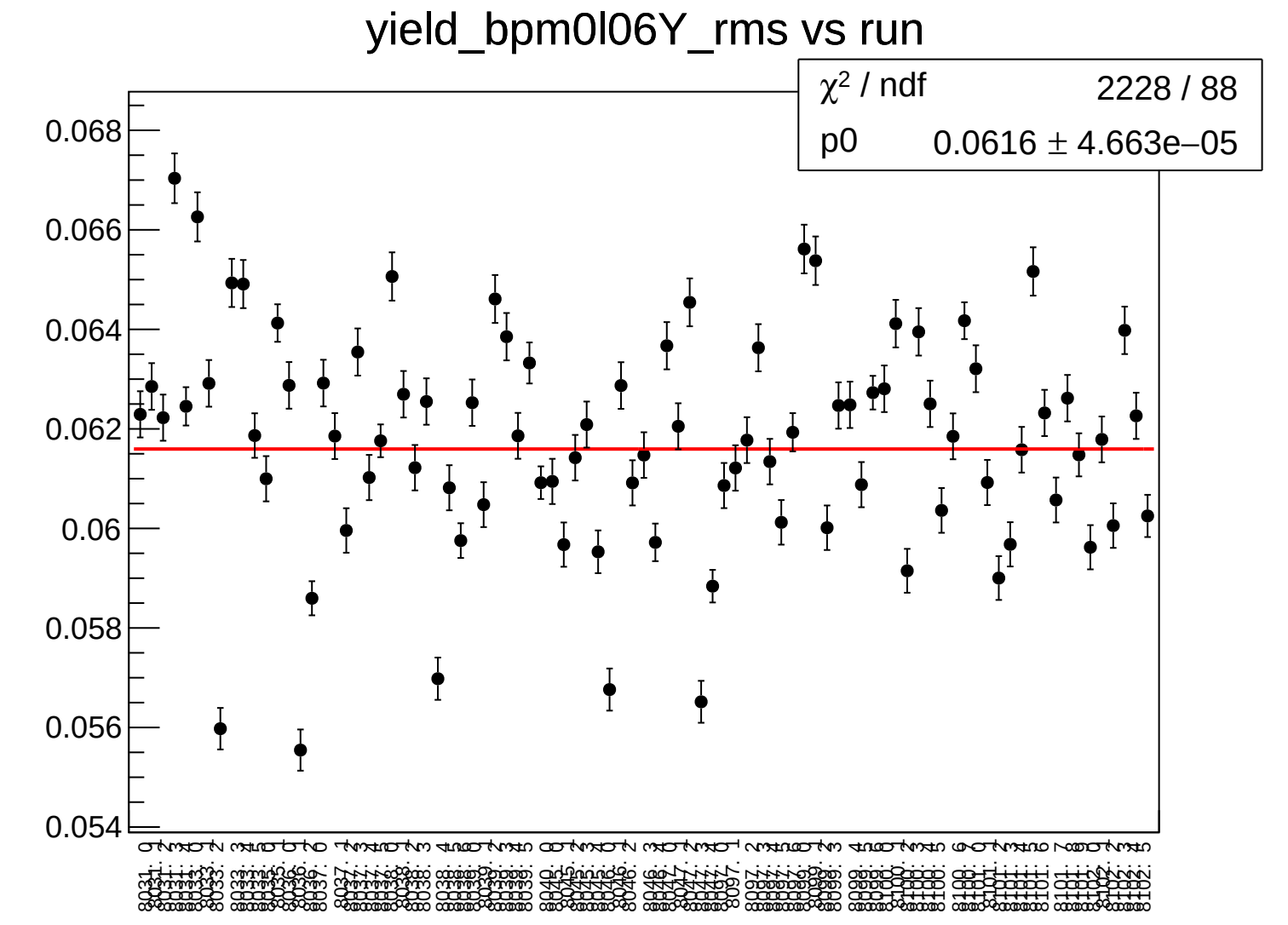

yield_bpm0l06X_mean vs run
χ² / ndf 8.157e+05 / 88
p0 −2.19 ± 3.046e−05
−2.12
−2.14
−2.16
−2.18
−2.2
−2.22
−2.24
pull
Entries 89
Mean 4946
Std Dev 0
250
200
150
100
50
0
−50
−100
−150
−200

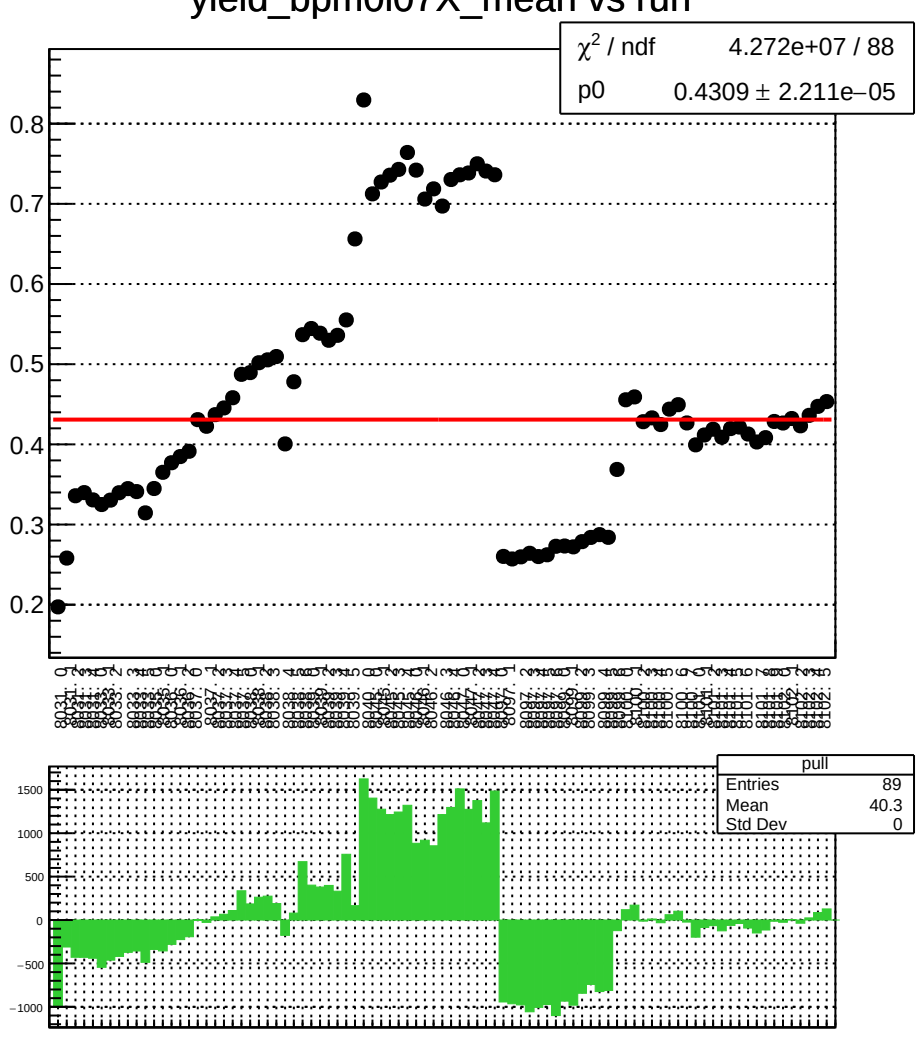

pull1D
Entries 89
Mean 0.9551
Std Dev 3.808
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

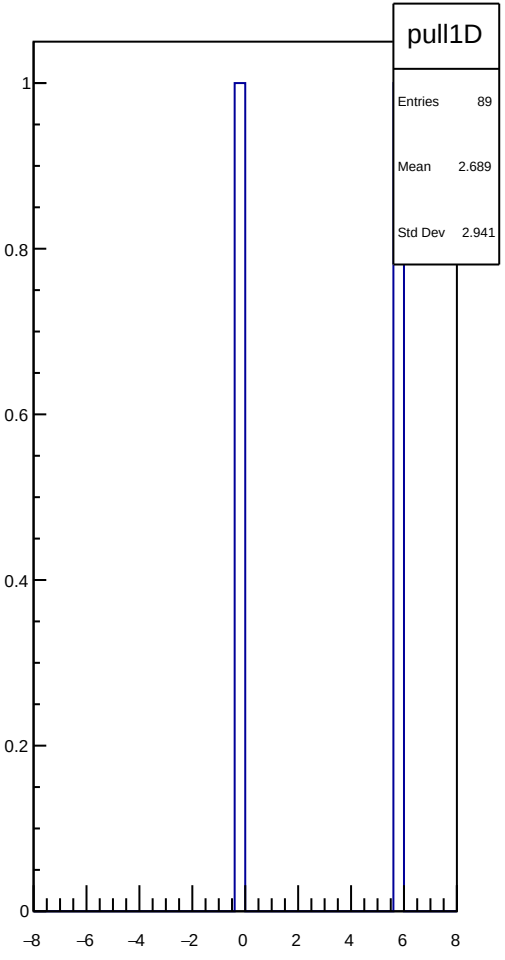

yield_bpm0l06X_rms vs run
χ² / ndf 2678 / 88
p0 0.02845 ± 2.154e−05
0.033
0.032
0.031
0.03
0.029
0.028
0.027
0.026
0.025

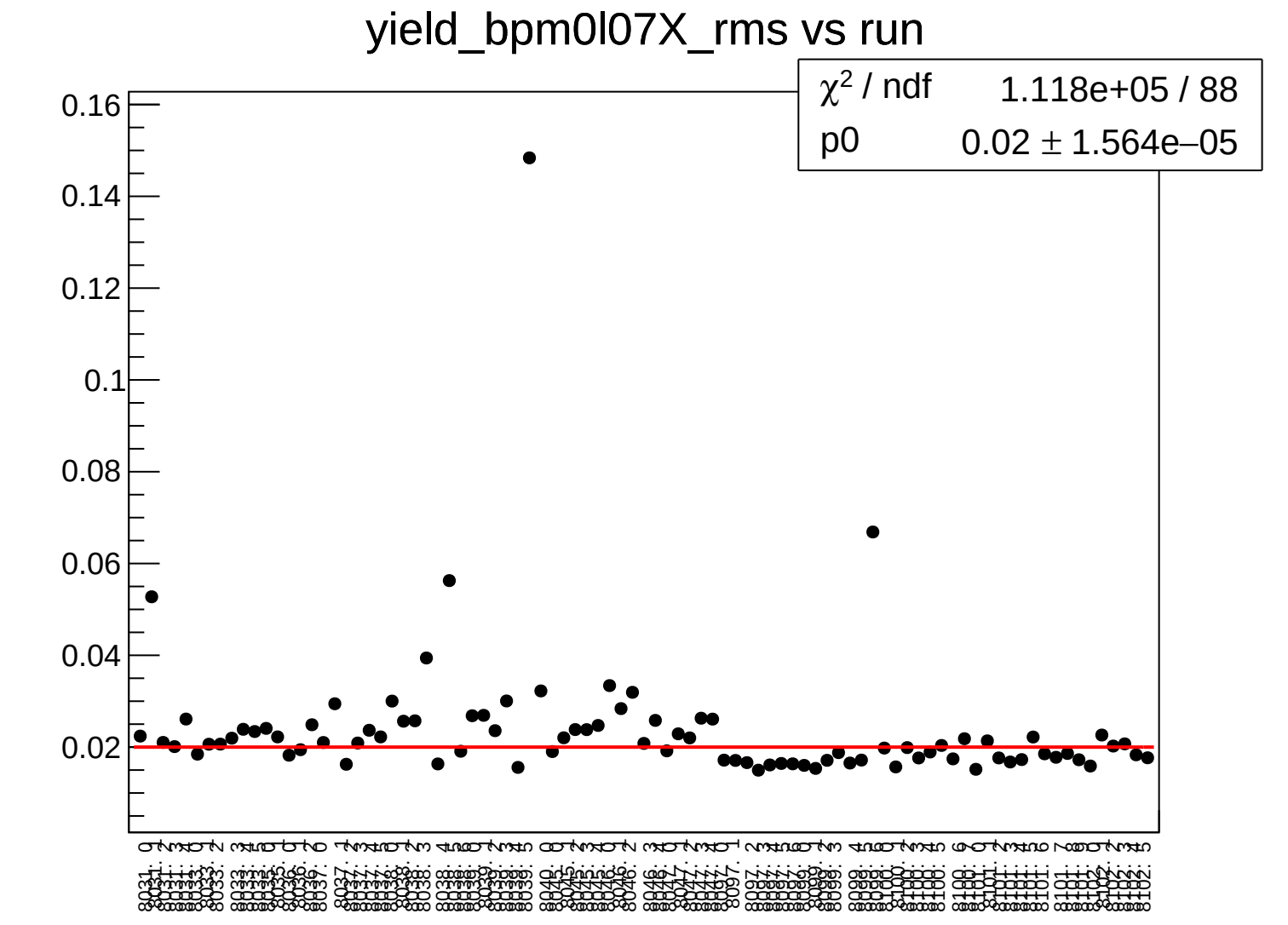

yield_bpm0l06Y_mean vs run
χ² / ndf 1.759e+05 / 88
p0 9.727 ± 6.594e−05
9.8
9.78
9.76
9.74
9.72
9.7
9.68
pull
Entries 89
Mean −1250
Std Dev 0
150
100
50
0
−50

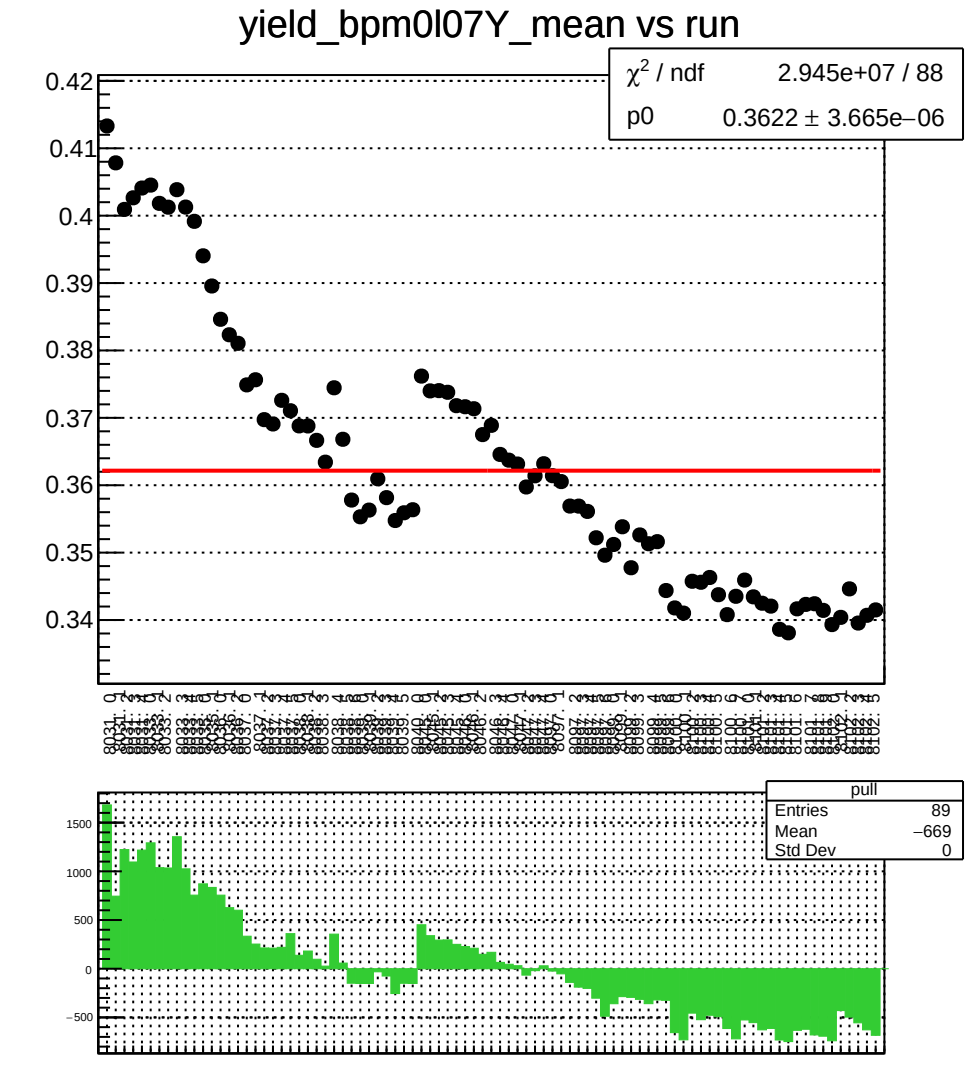

pull1D
Entries 89
Mean 1.293
Std Dev 4.447
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

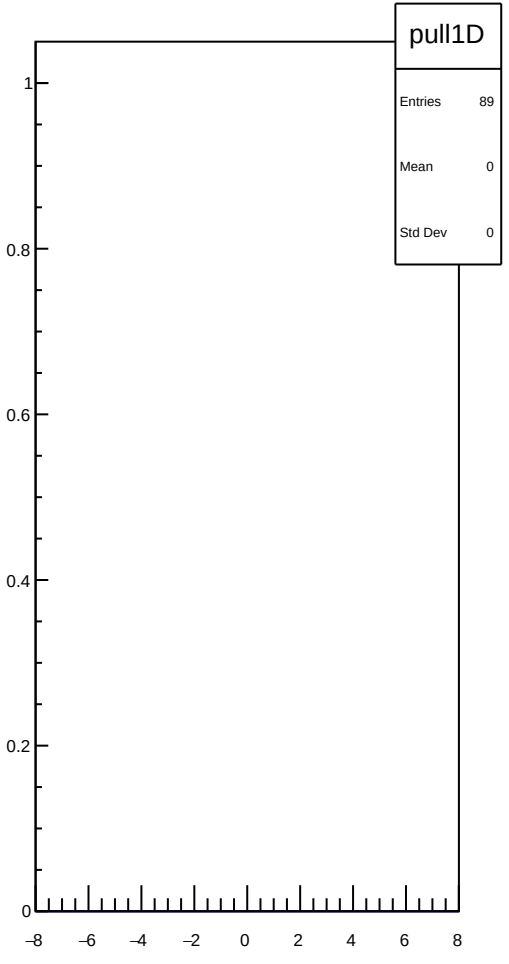

yield_bpm0l06Y_rms vs run
χ² / ndf 2228 / 88
p0 0.0616 ± 4.663e−05
0.068
0.066
0.064
0.062
0.06
0.058
0.056
0.054

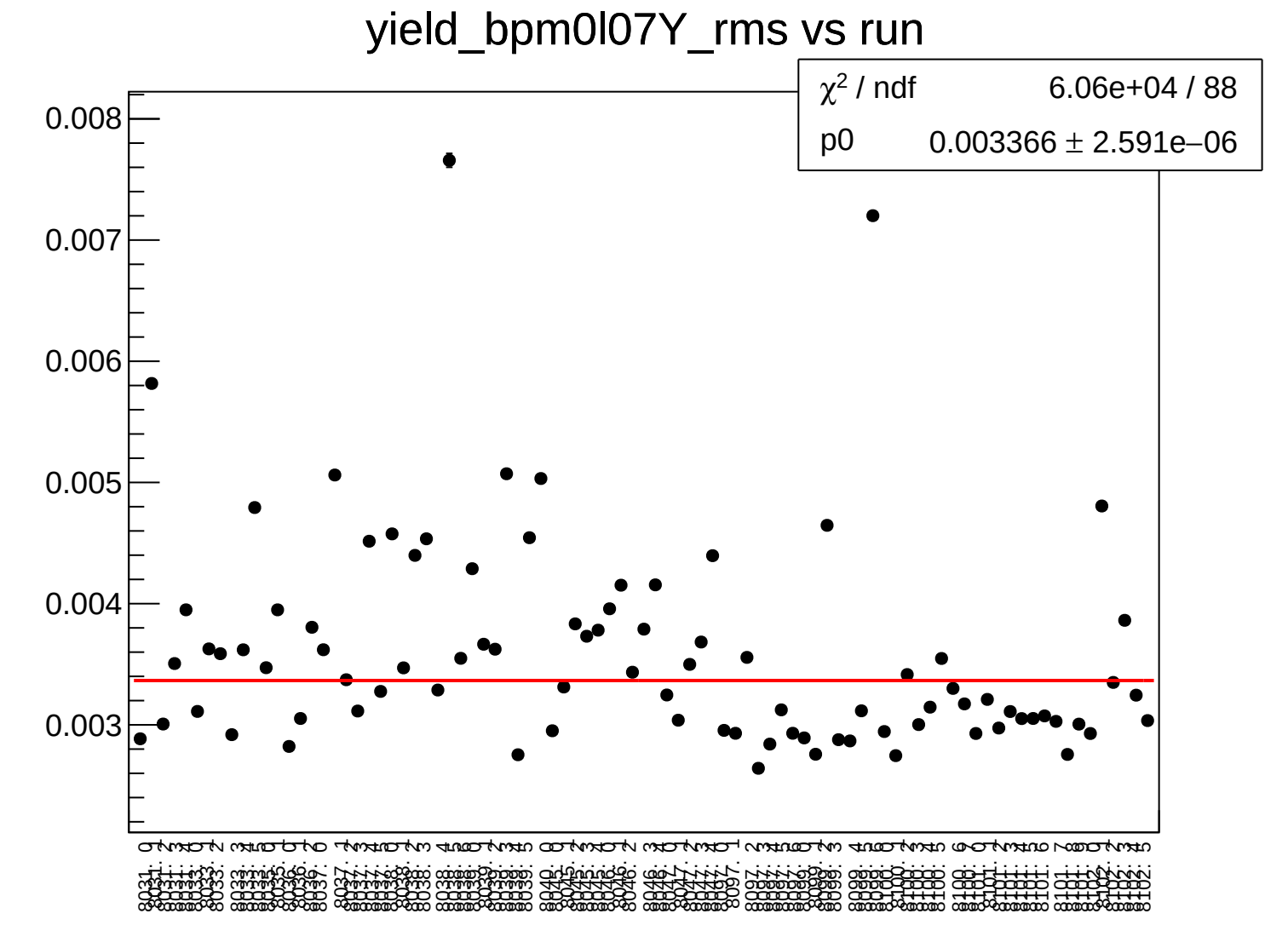

yield_bpm0l07X_mean vs run
χ² / ndf 4.272e+07 / 88
p0 0.4309 ± 2.211e−05
pull
Entries 89
Mean 40.3
Std Dev 0

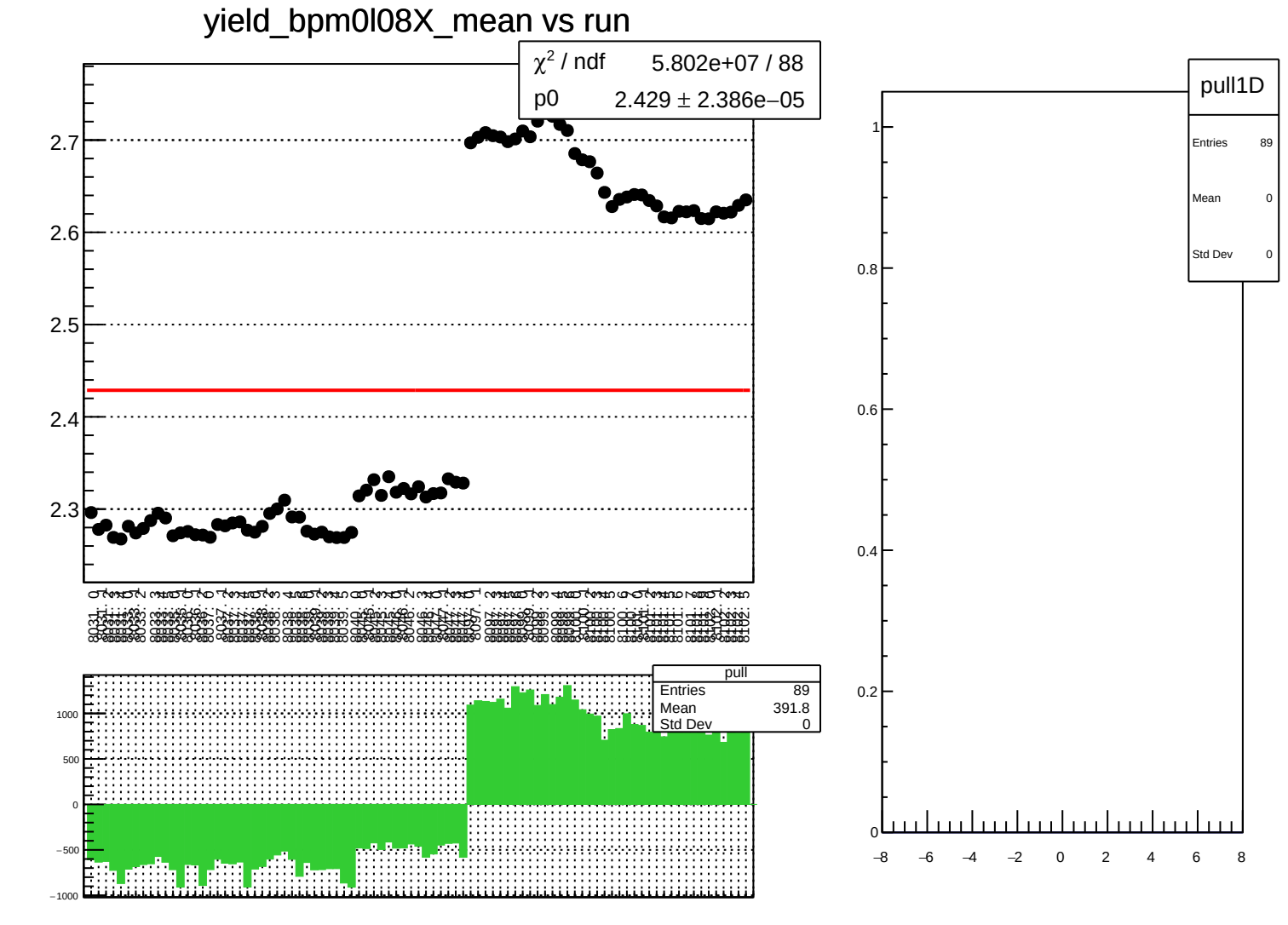

pull1D
Entries 89
Mean 2.689
Std Dev 2.941

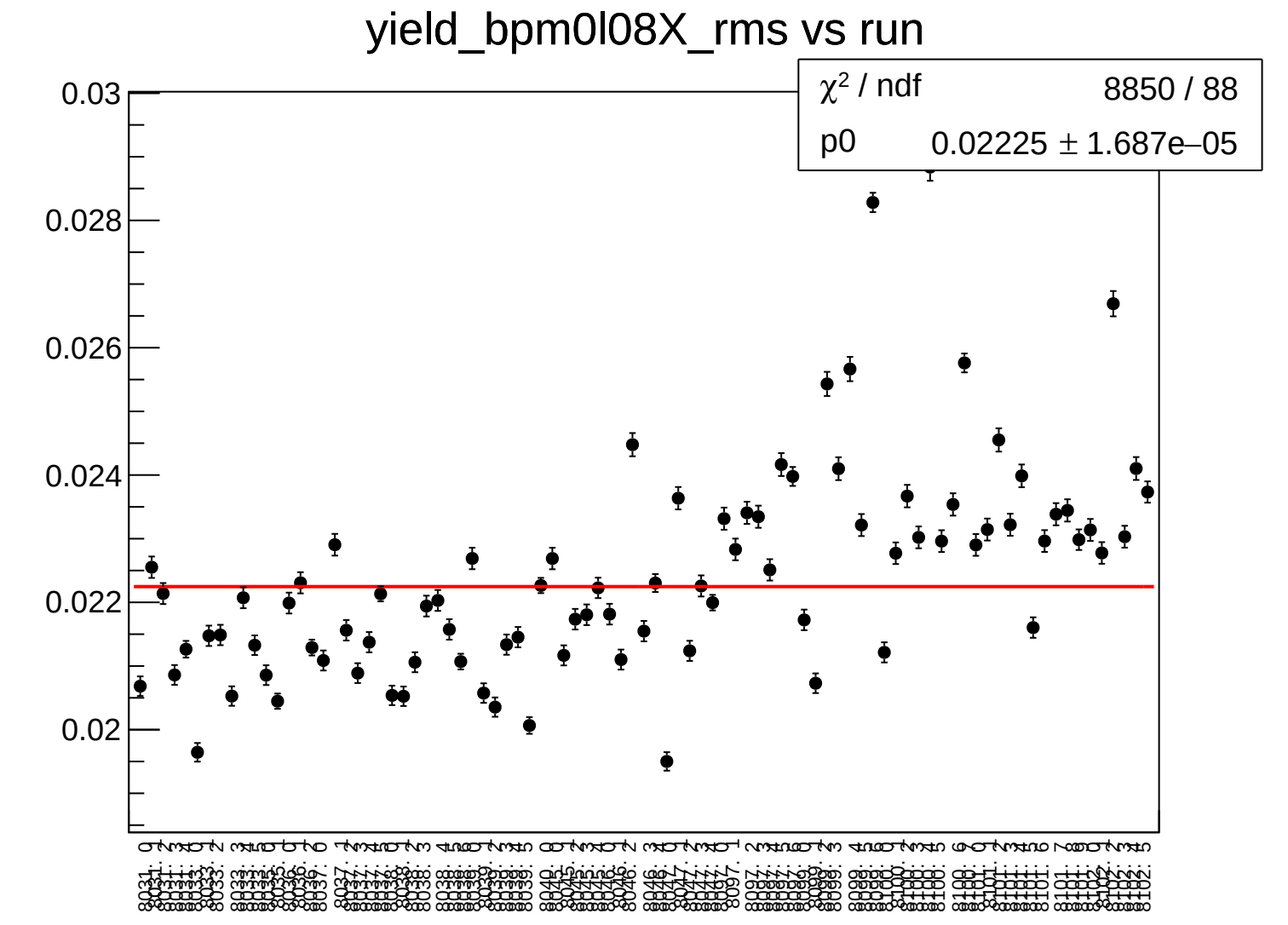

yield_bpm0l07X_rms vs run
χ² / ndf 1.118e+05 / 88
p0 0.02 ± 1.564e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

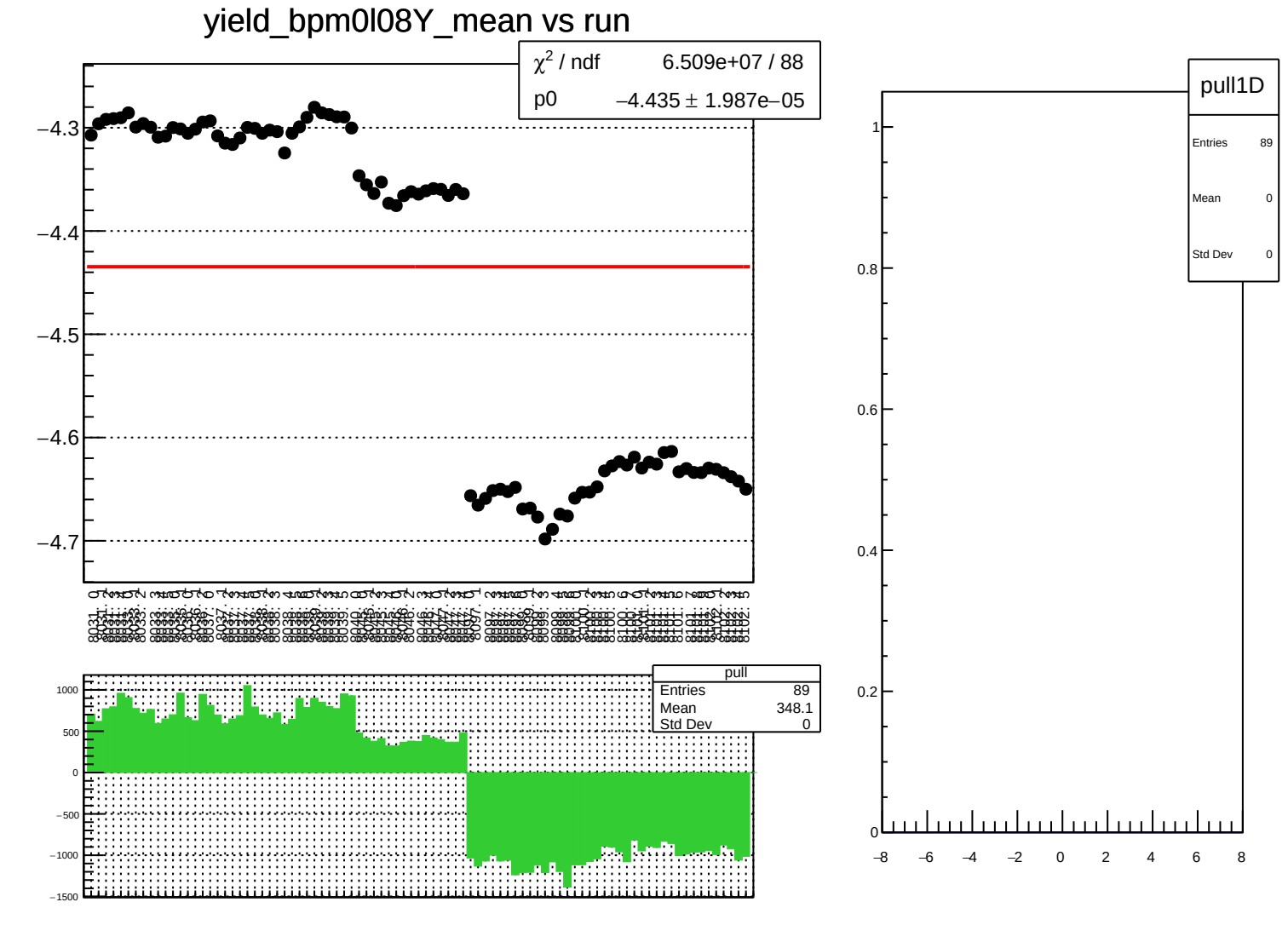

yield_bpm0l07Y_mean vs run
χ² / ndf 2.945e+07 / 88
p0 0.3622 ± 3.665e−06
0.42
0.41
0.4
0.39
0.38
0.37
0.36
0.35
0.34
pull
Entries 89
Mean −669
Std Dev 0
1500
1000
500
0
−500

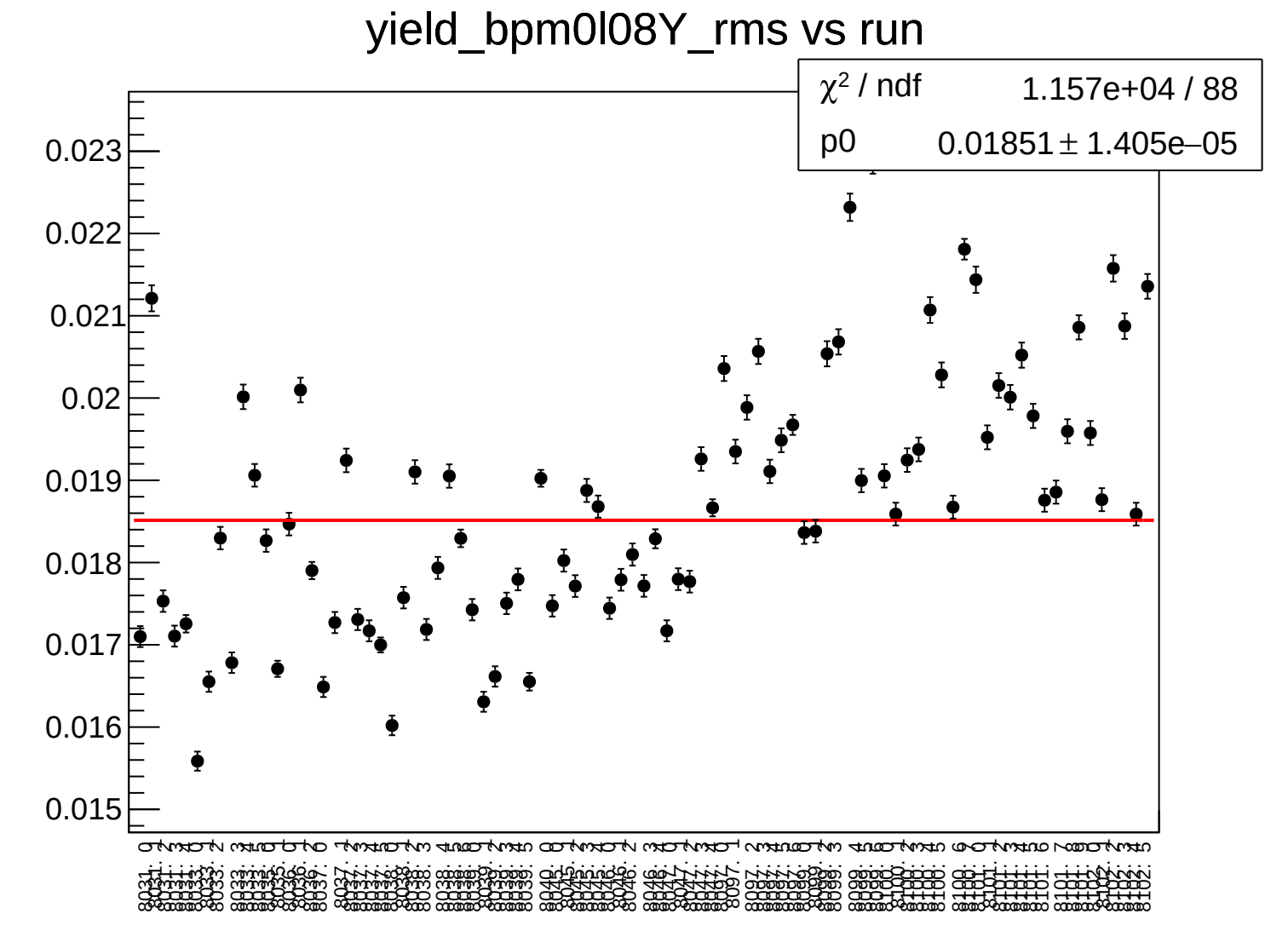

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

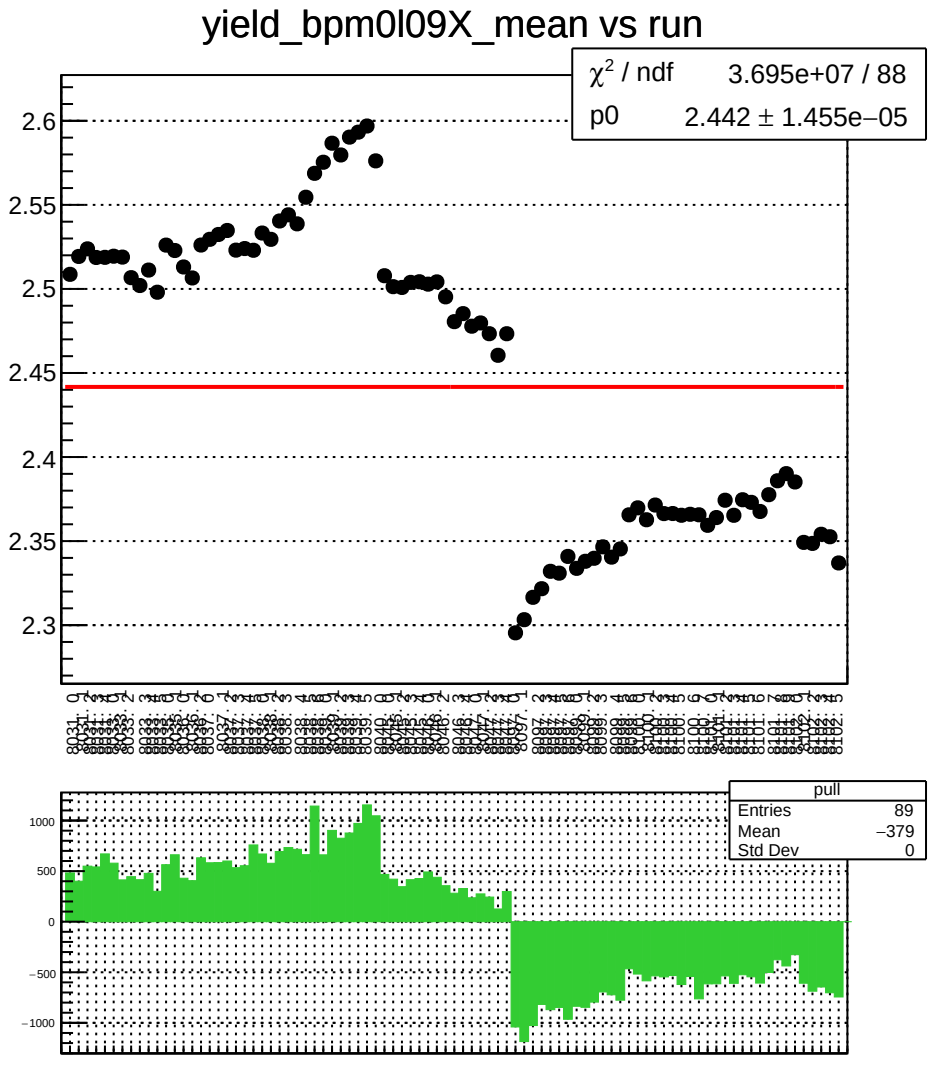

yield_bpm0l07Y_rms vs run
χ² / ndf 6.06e+04 / 88
p0 0.003366 ± 2.591e−06
0.008
0.007
0.006
0.005
0.004
0.003

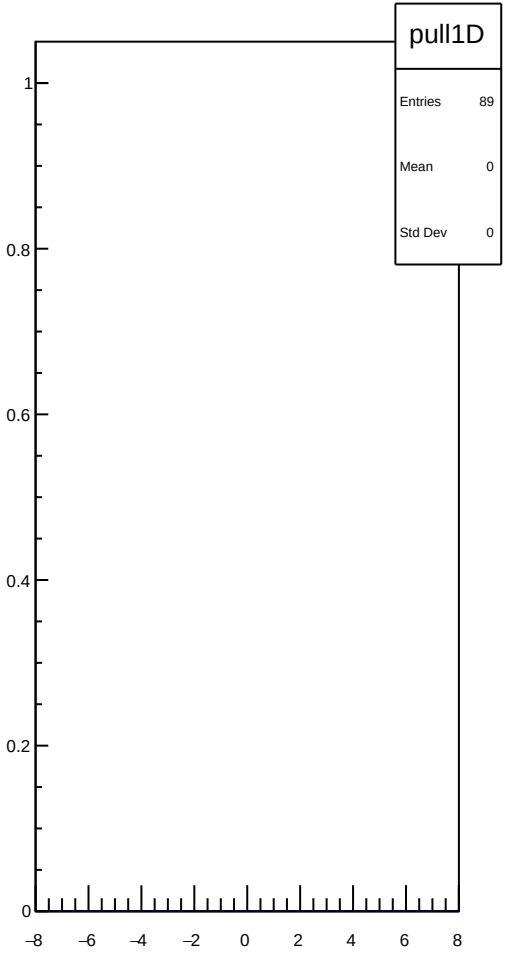

yield_bpm0l08X_mean vs run
χ² / ndf 5.802e+07 / 88
p0 2.429 ± 2.386e−05
2.7
2.6
2.5
2.4
2.3
pull
Entries 89
Mean 391.8
Std Dev 0
1000
500
0
−500
−1000
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

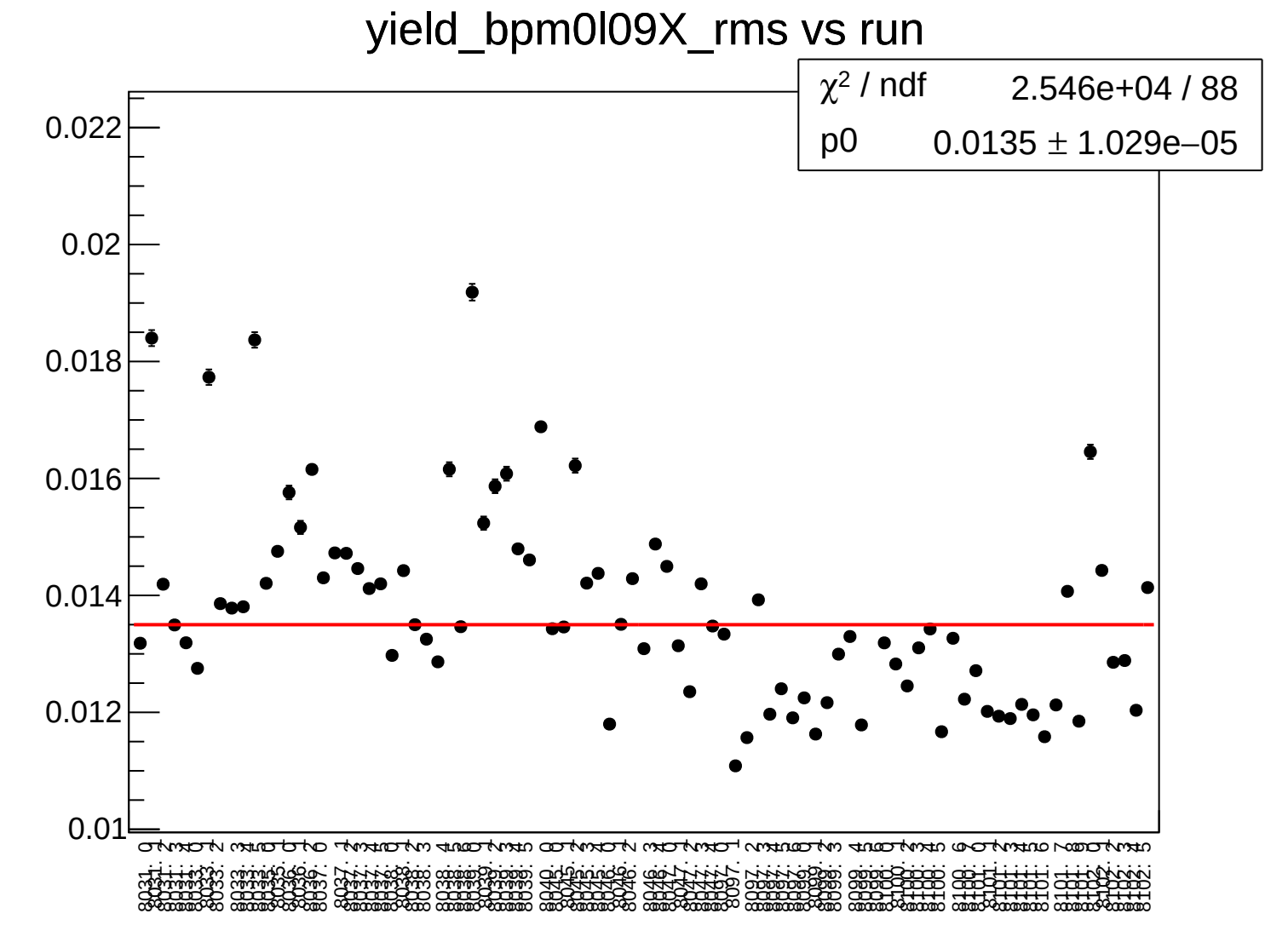

yield_bpm0l08X_rms vs run
χ² / ndf 8850 / 88
p0 0.02225 ± 1.687e–05
0.03
0.028
0.026
0.024
0.022
0.02

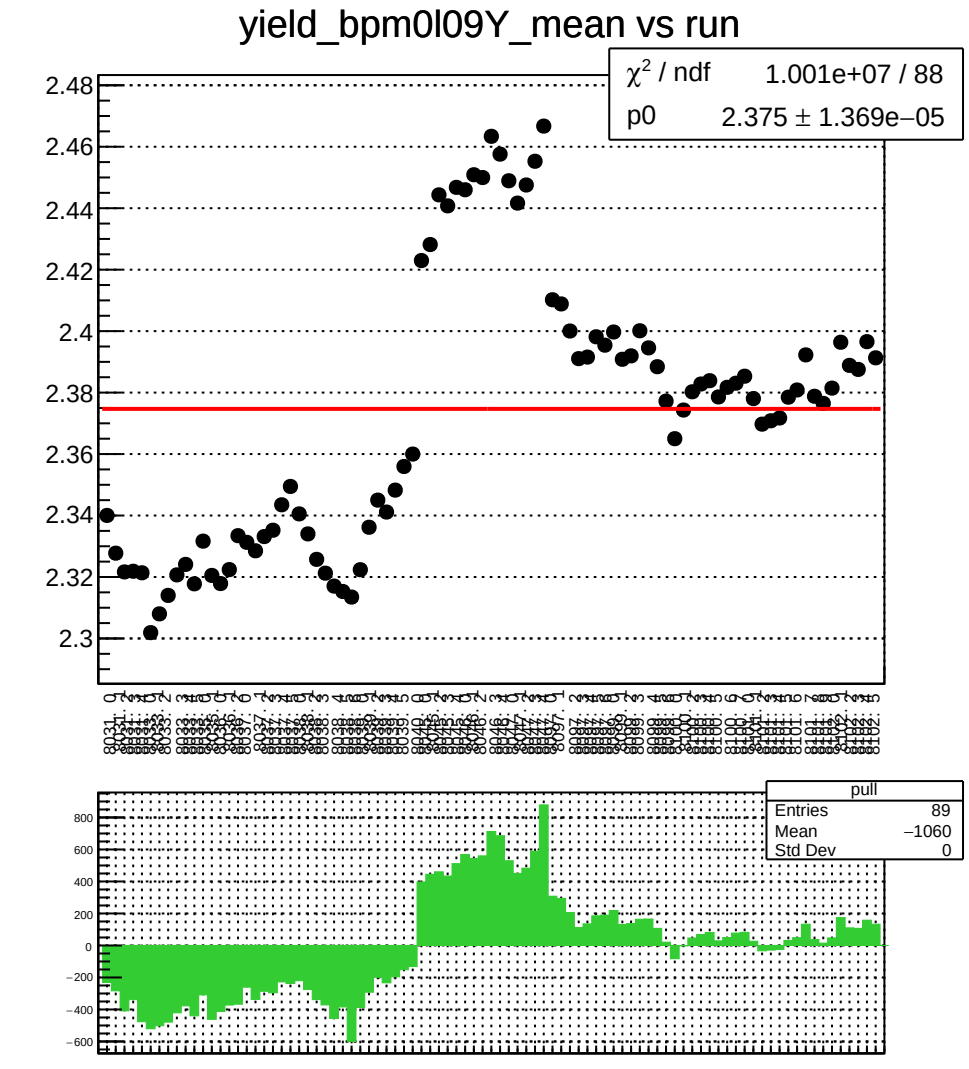

yield_bpm0l08Y_mean vs run
χ² / ndf 6.509e+07 / 88
p0 −4.435 ± 1.987e−05
−4.3
−4.4
−4.5
−4.6
−4.7
pull
Entries 89
Mean 348.1
Std Dev 0
1000
500
0
−500
−1000
−1500
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

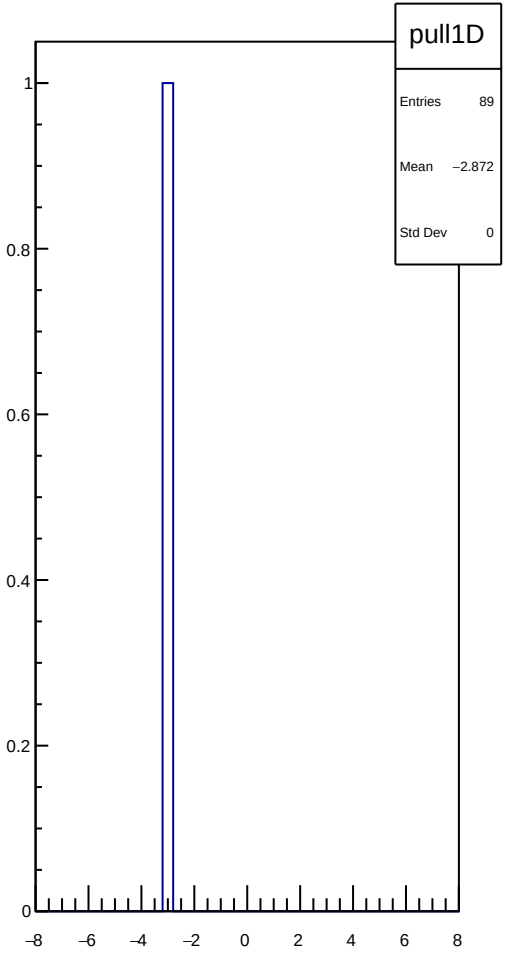

yield_bpm0l08Y_rms vs run
χ² / ndf 1.157e+04 / 88
p0 0.01851 ± 1.405e–05
0.023
0.022
0.021
0.02
0.019
0.018
0.017
0.016
0.015

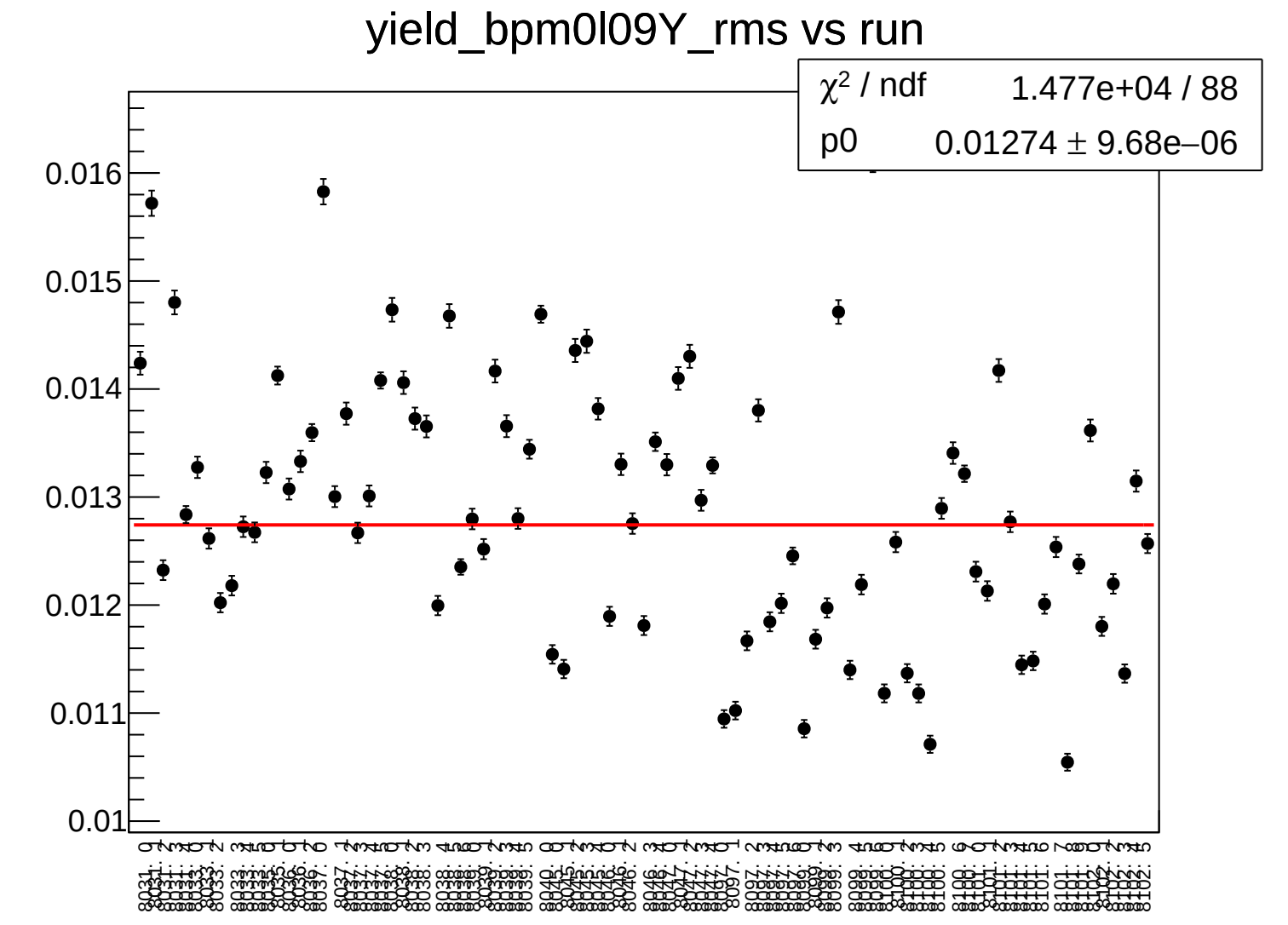

yield_bpm0l09X_mean vs run
χ² / ndf 3.695e+07 / 88
p0 2.442 ± 1.455e−05
2.6
2.55
2.5
2.45
2.4
2.35
2.3
pull
Entries 89
Mean −379
Std Dev 0
1000
500
0
−500
−1000

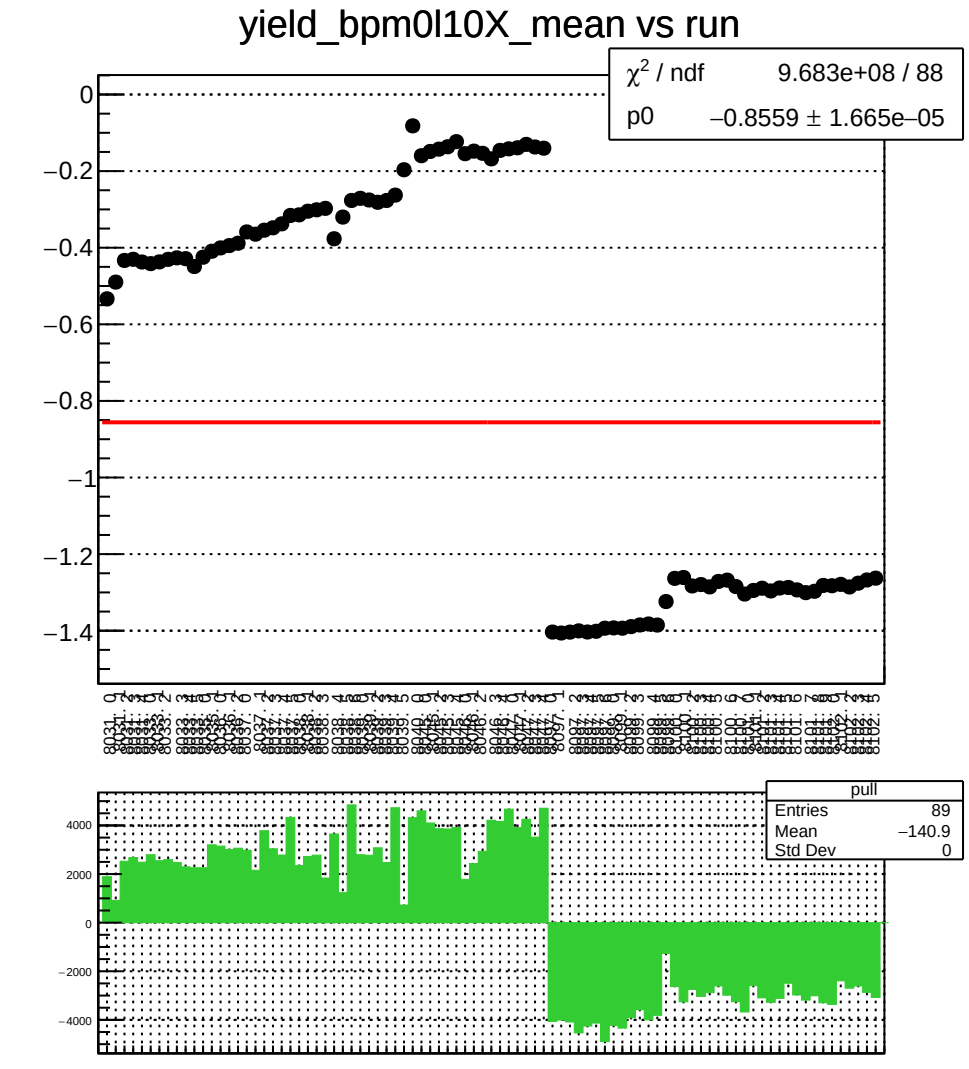

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

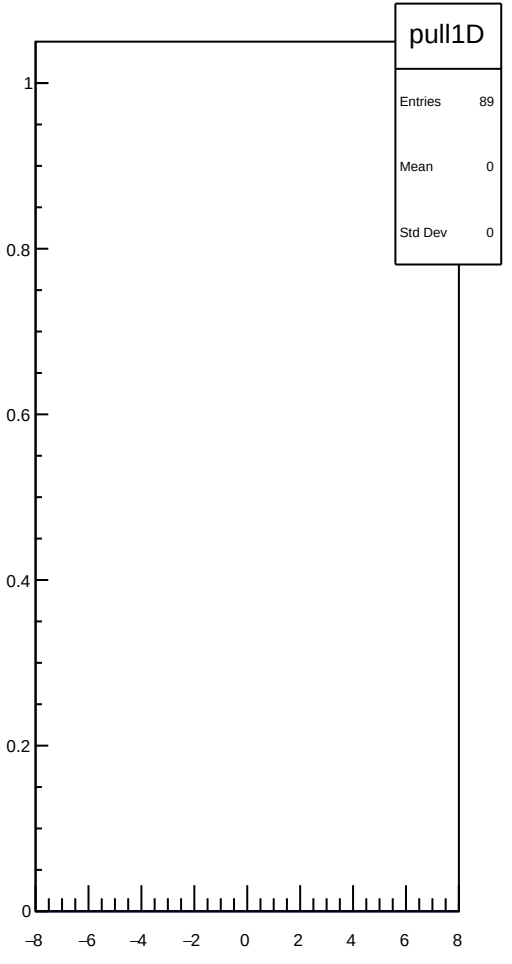

yield_bpm0l09X_rms vs run
χ² / ndf 2.546e+04 / 88
p0 0.0135 ± 1.029e−05
0.022
0.02
0.018
0.016
0.014
0.012
0.01

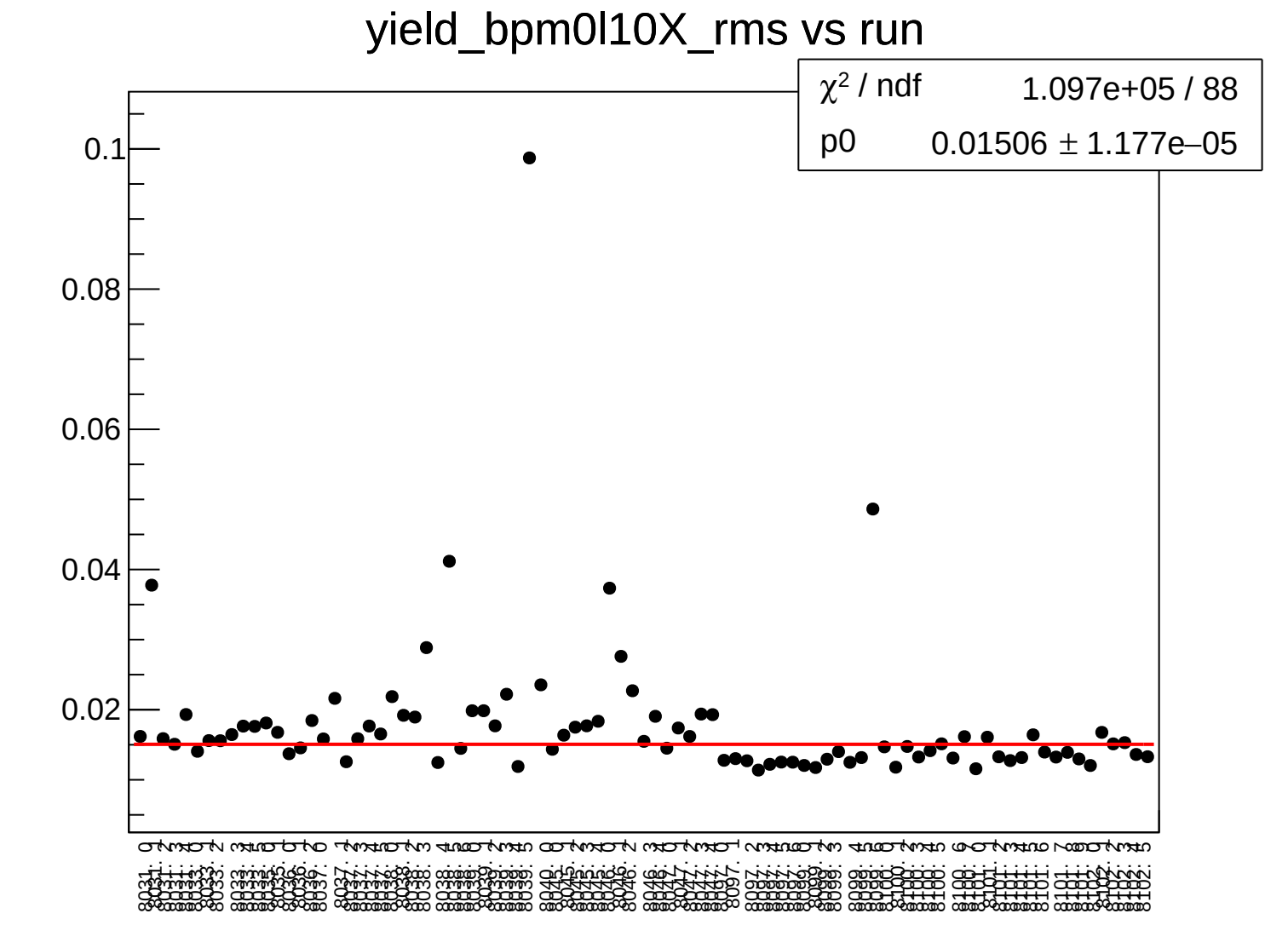

yield_bpm0l09Y_mean vs run
χ² / ndf 1.001e+07 / 88
p0 2.375 ± 1.369e−05
2.48
2.46
2.44
2.42
2.4
2.38
2.36
2.34
2.32
2.3
pull
Entries 89
Mean −1060
Std Dev 0
800
600
400
200
0
−200
−400
−600

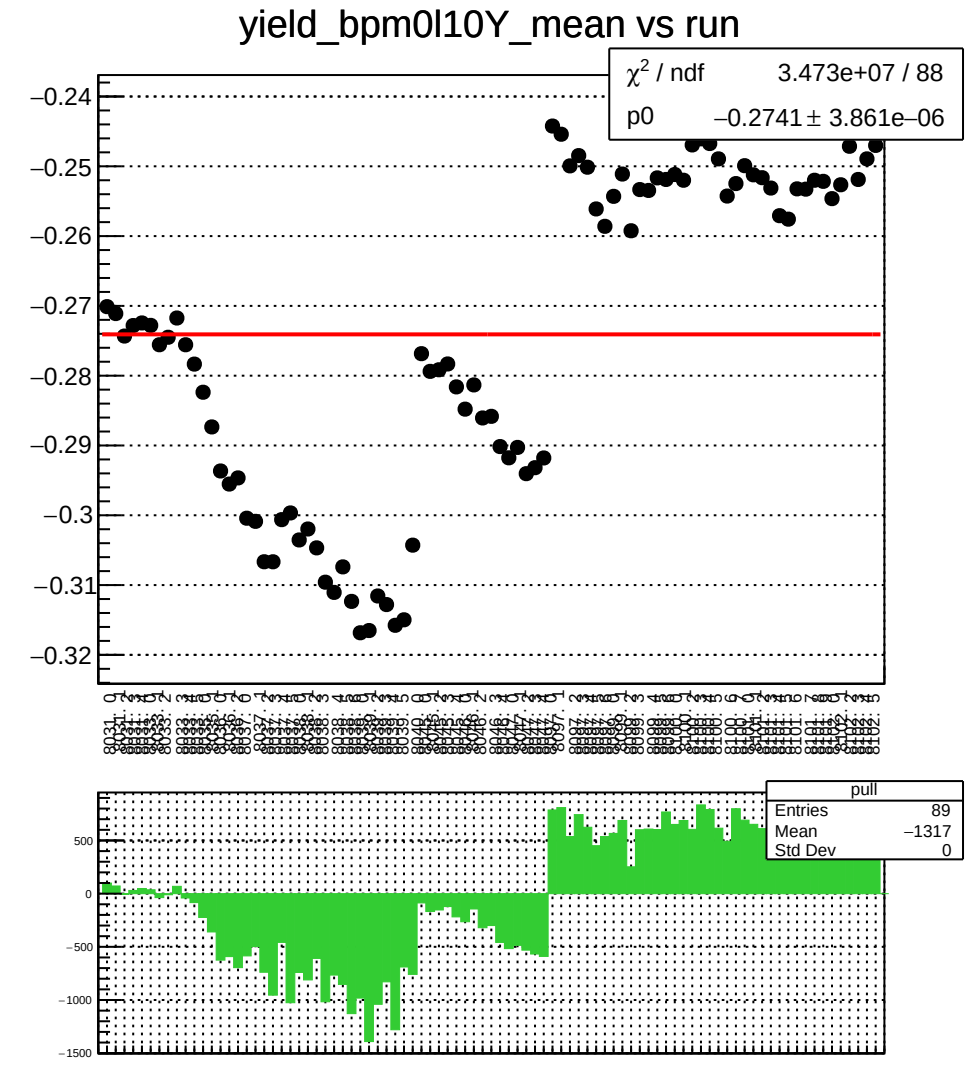

pull1D
Entries 89
Mean −2.872
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

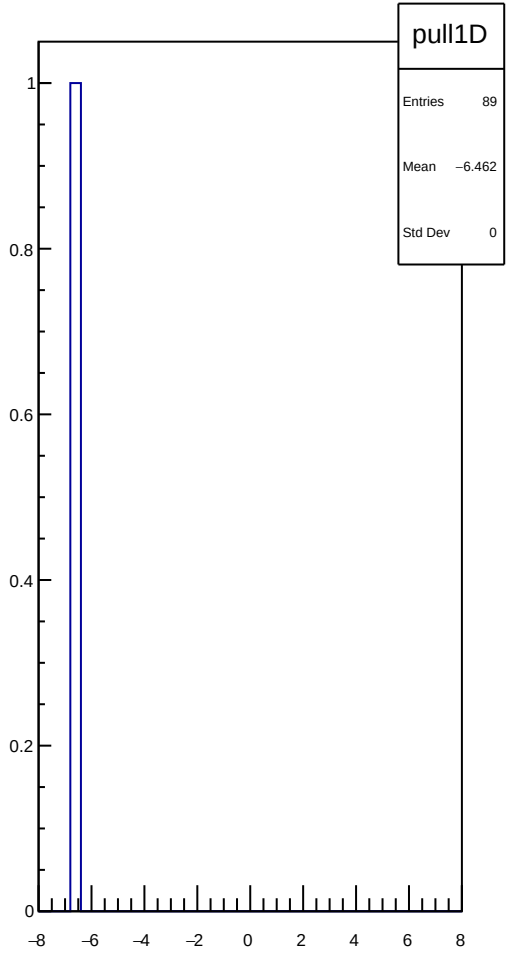

yield_bpm0l09Y_rms vs run
χ² / ndf 1.477e+04 / 88
p0 0.01274 ± 9.68e−06
0.016
0.015
0.014
0.013
0.012
0.011
0.01

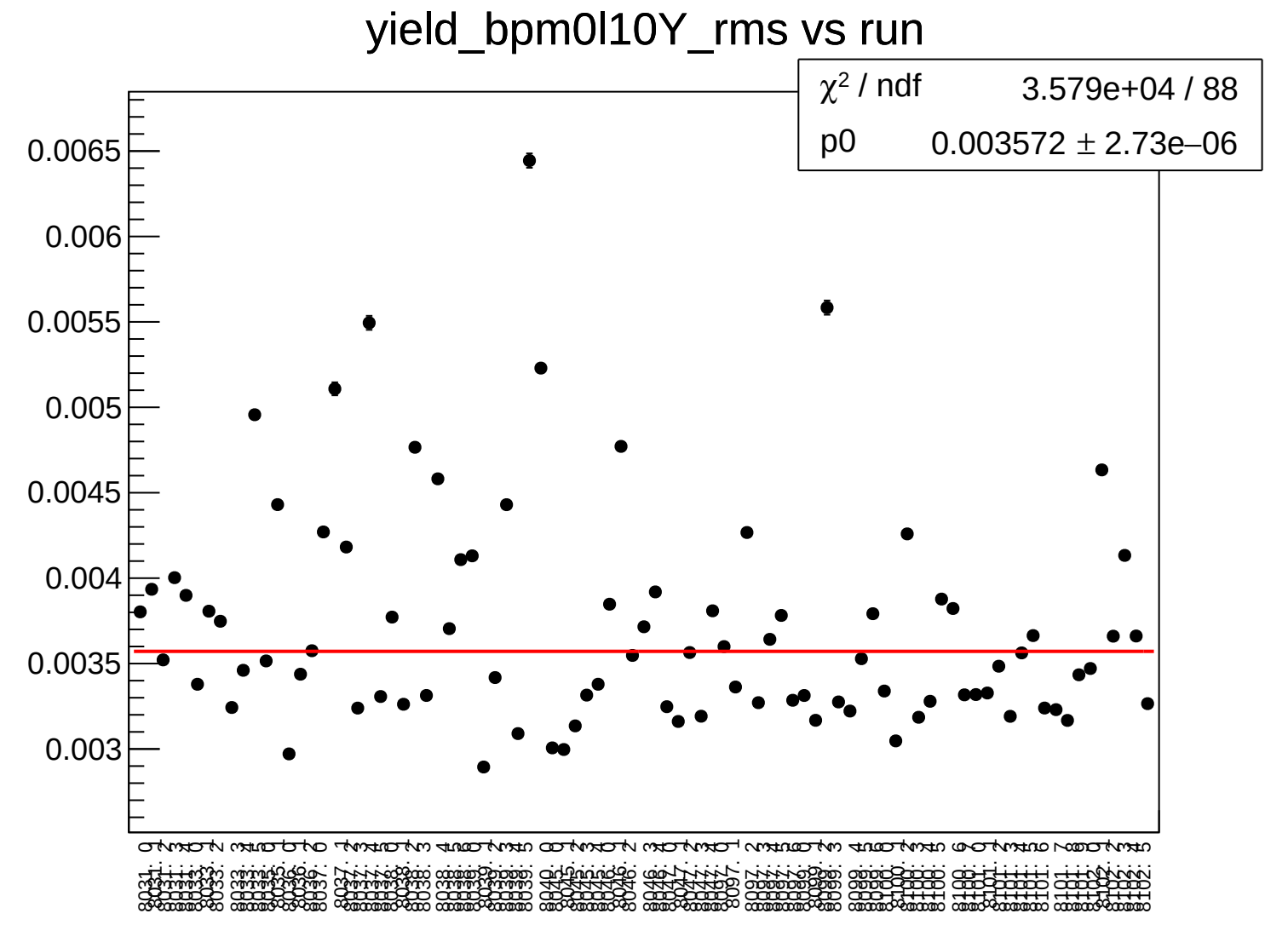

yield_bpm0l10X_mean vs run
χ² / ndf 9.683e+08 / 88
p0 −0.8559 ± 1.665e−05
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
pull
Entries 89
Mean −140.9
Std Dev 0
4000
2000
0
−2000
−4000

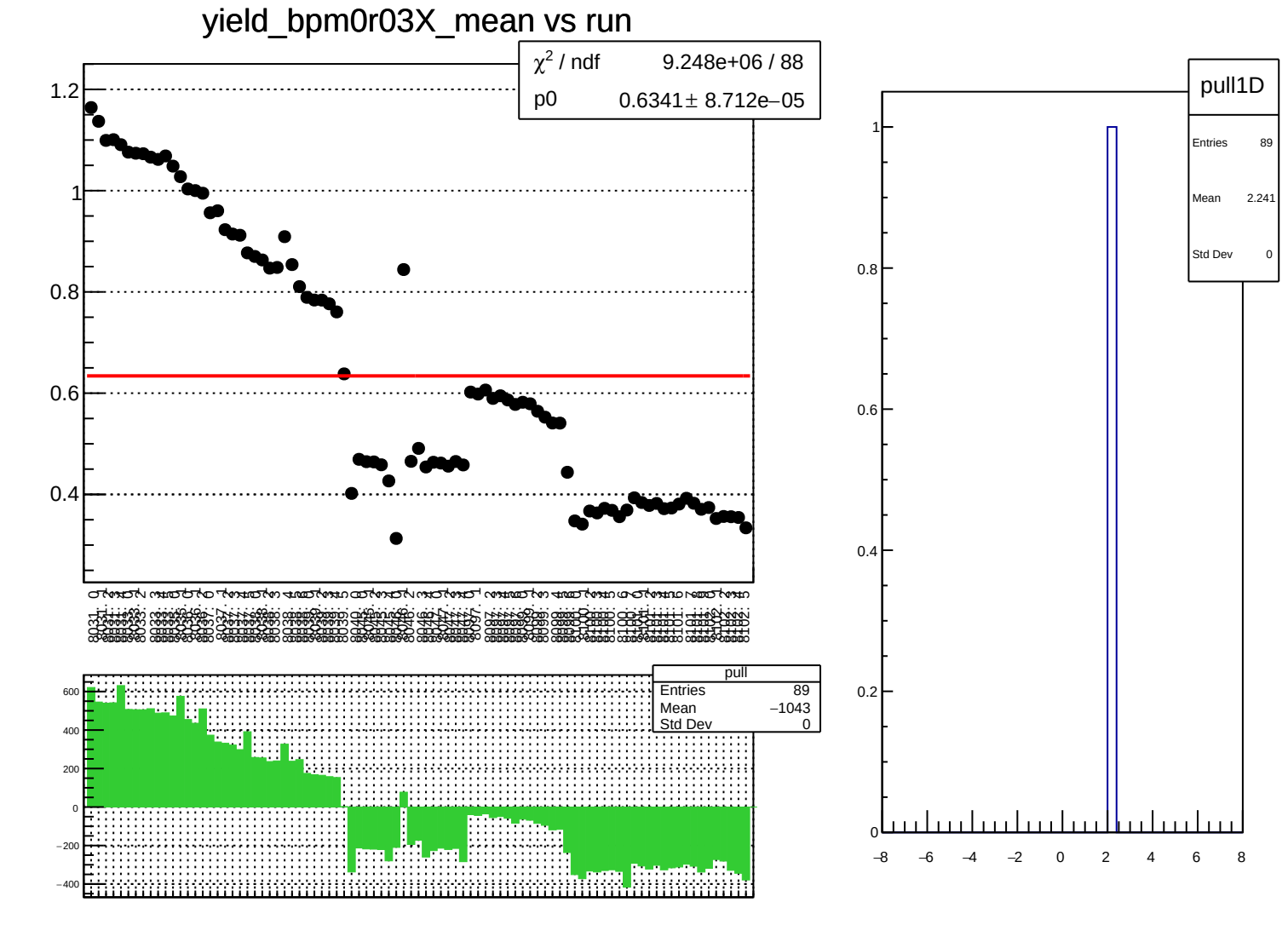

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

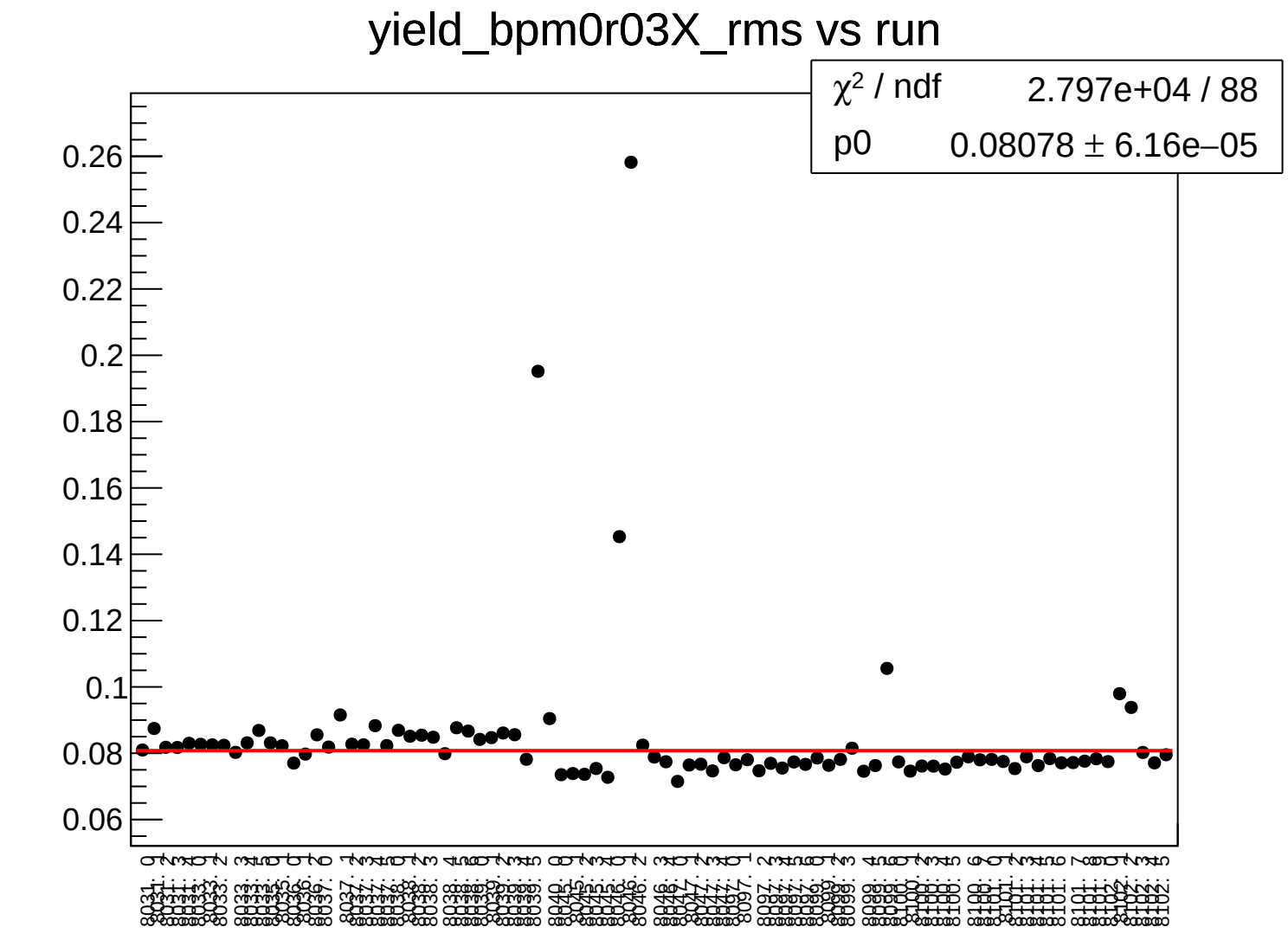

yield_bpm0l10X_rms vs run
χ² / ndf 1.097e+05 / 88
p0 0.01506 ± 1.177e–05
0.1
0.08
0.06
0.04
0.02

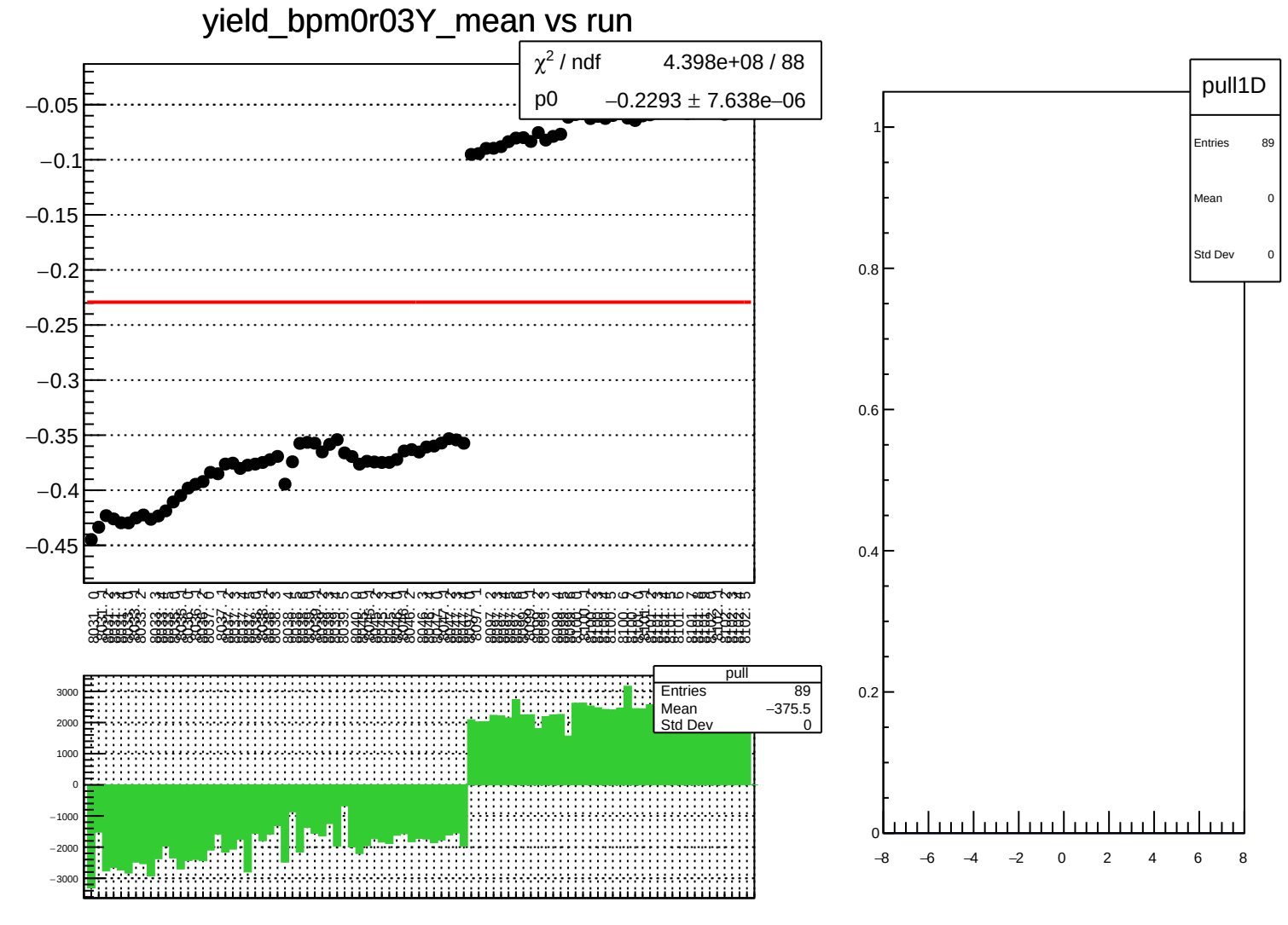

yield_bpm0l10Y_mean vs run
χ² / ndf 3.473e+07 / 88
p0 −0.2741 ± 3.861e−06
−0.24
−0.25
−0.26
−0.27
−0.28
−0.29
−0.3
−0.31
−0.32
pull
Entries 89
Mean −1317
Std Dev 0
500
0
−500
−1000
−1500

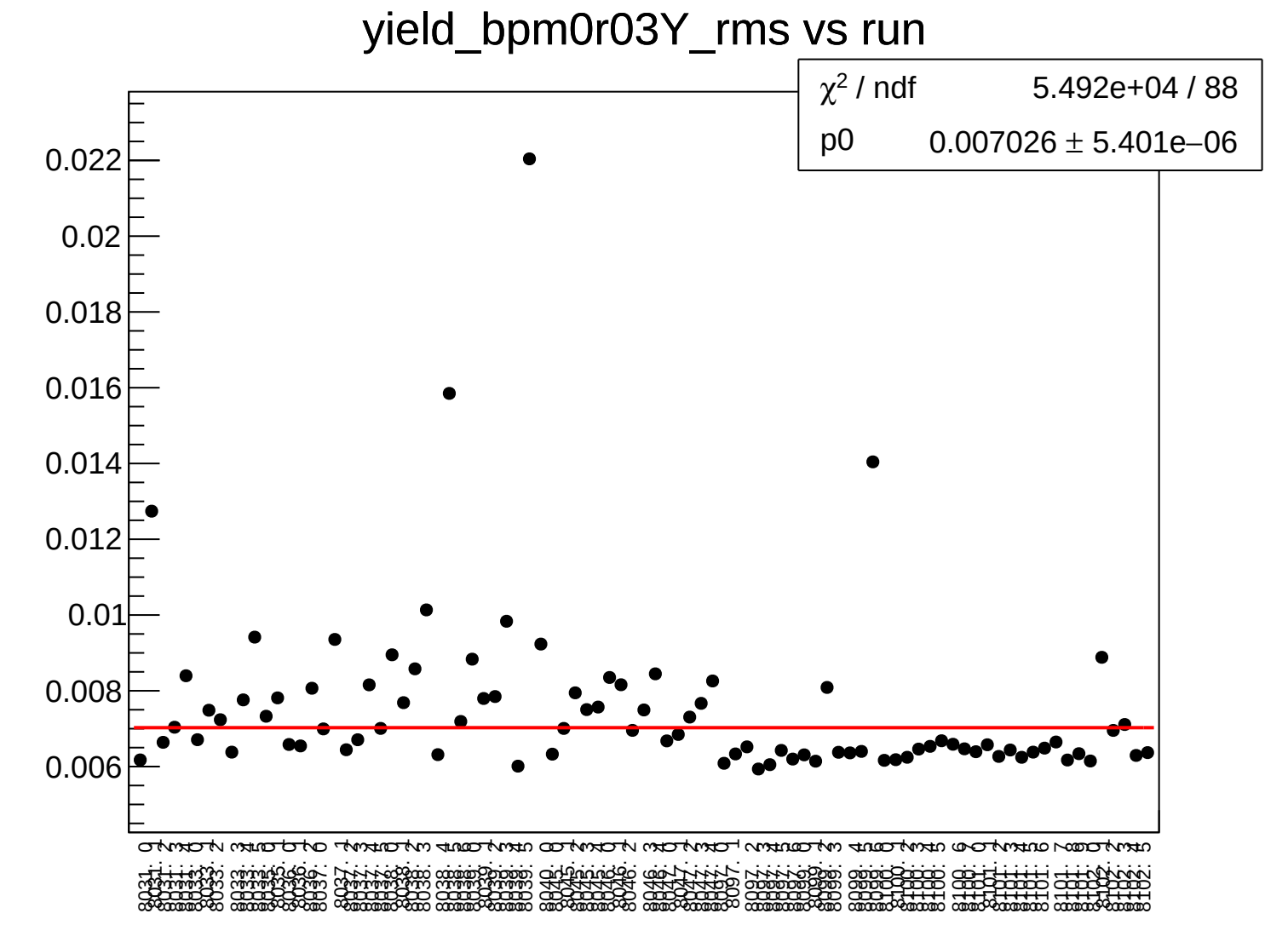

pull1D
Entries 89
Mean −6.462
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

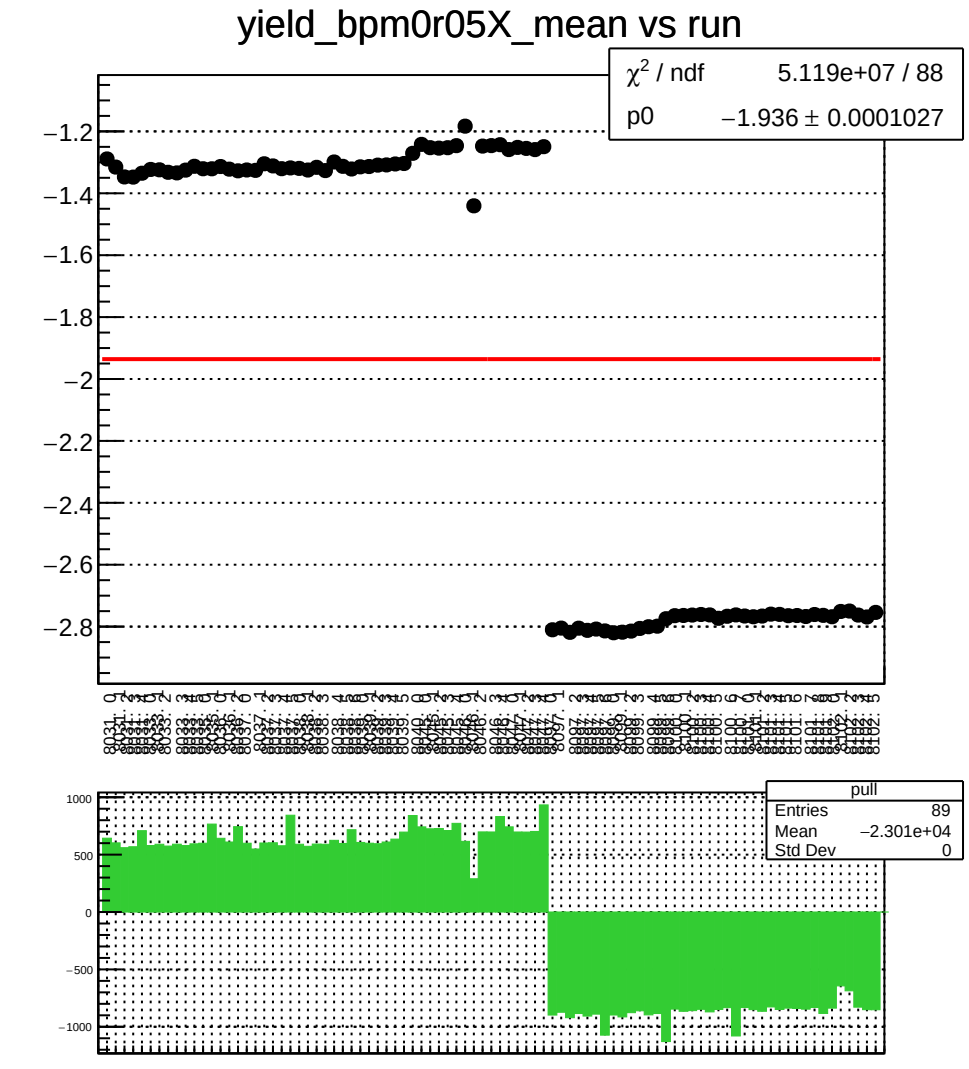

yield_bpm0l10Y_rms vs run
χ² / ndf 3.579e+04 / 88
p0 0.003572 ± 2.73e–06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003

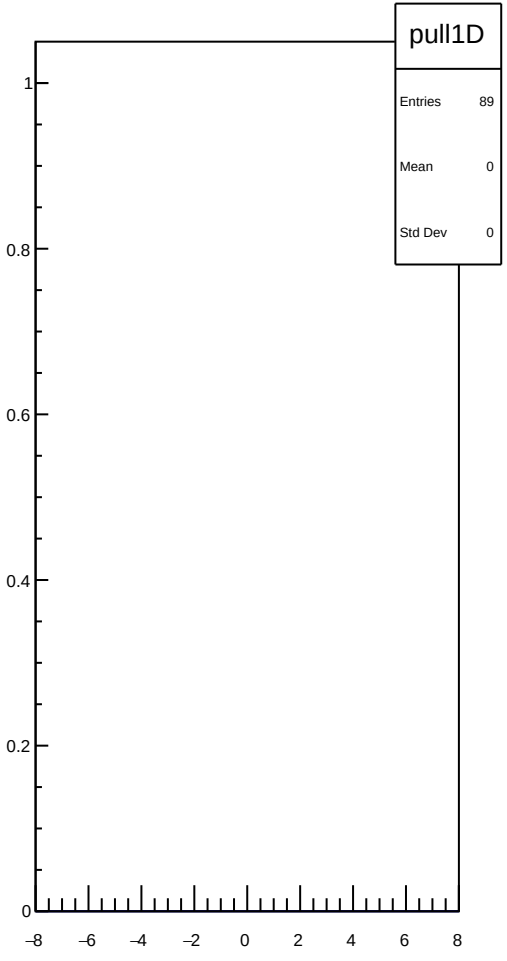

yield_bpm0r03X_mean vs run
χ² / ndf 9.248e+06 / 88
p0 0.6341 ± 8.712e−05
1.2
1
0.8
0.6
0.4
pull
Entries 89
Mean −1043
Std Dev 0
600
400
200
0
−200
−400
pull1D
Entries 89
Mean 2.241
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

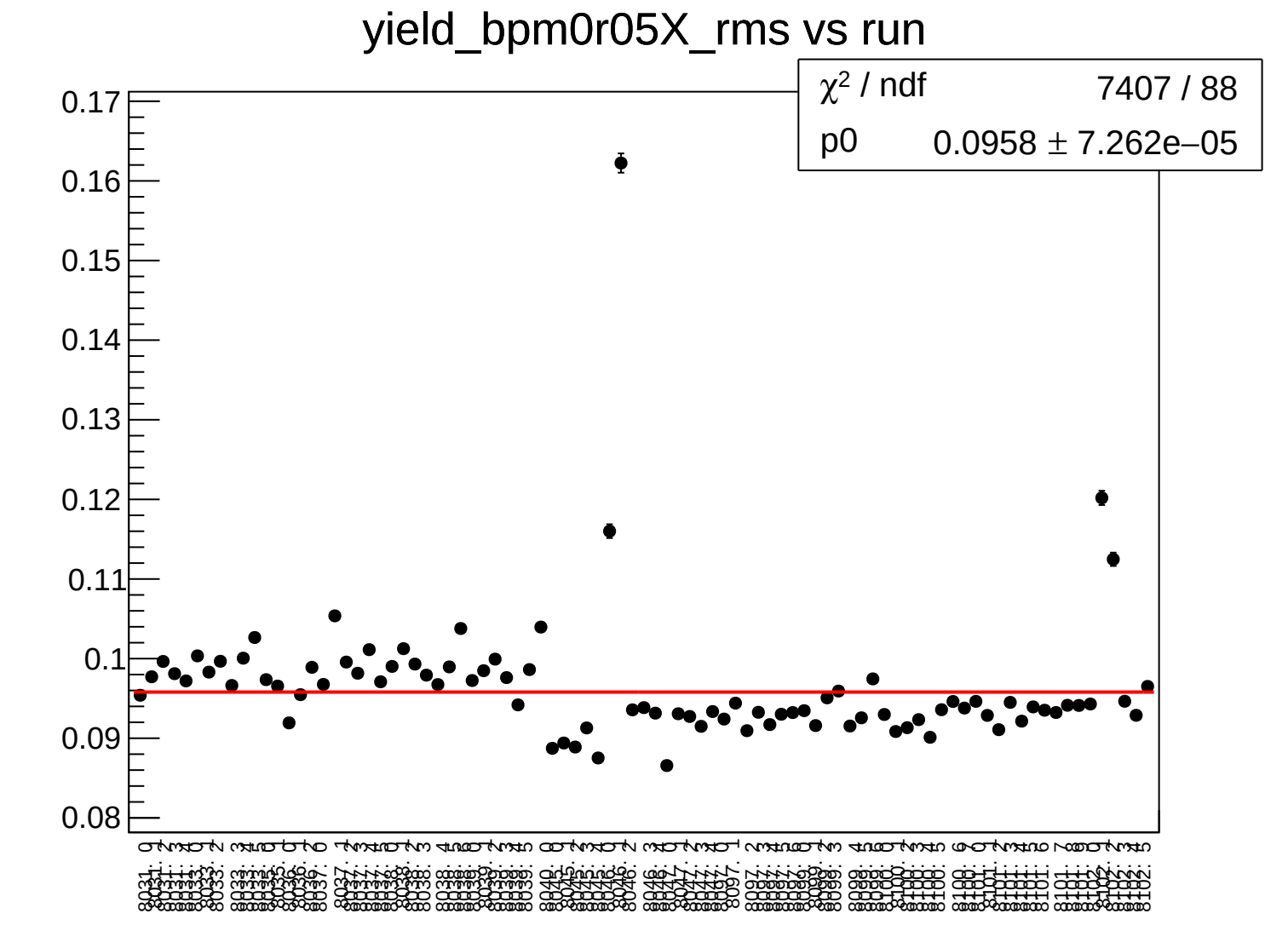

yield_bpm0r03X_rms vs run
χ² / ndf 2.797e+04 / 88
p0 0.08078 ± 6.16e−05
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06

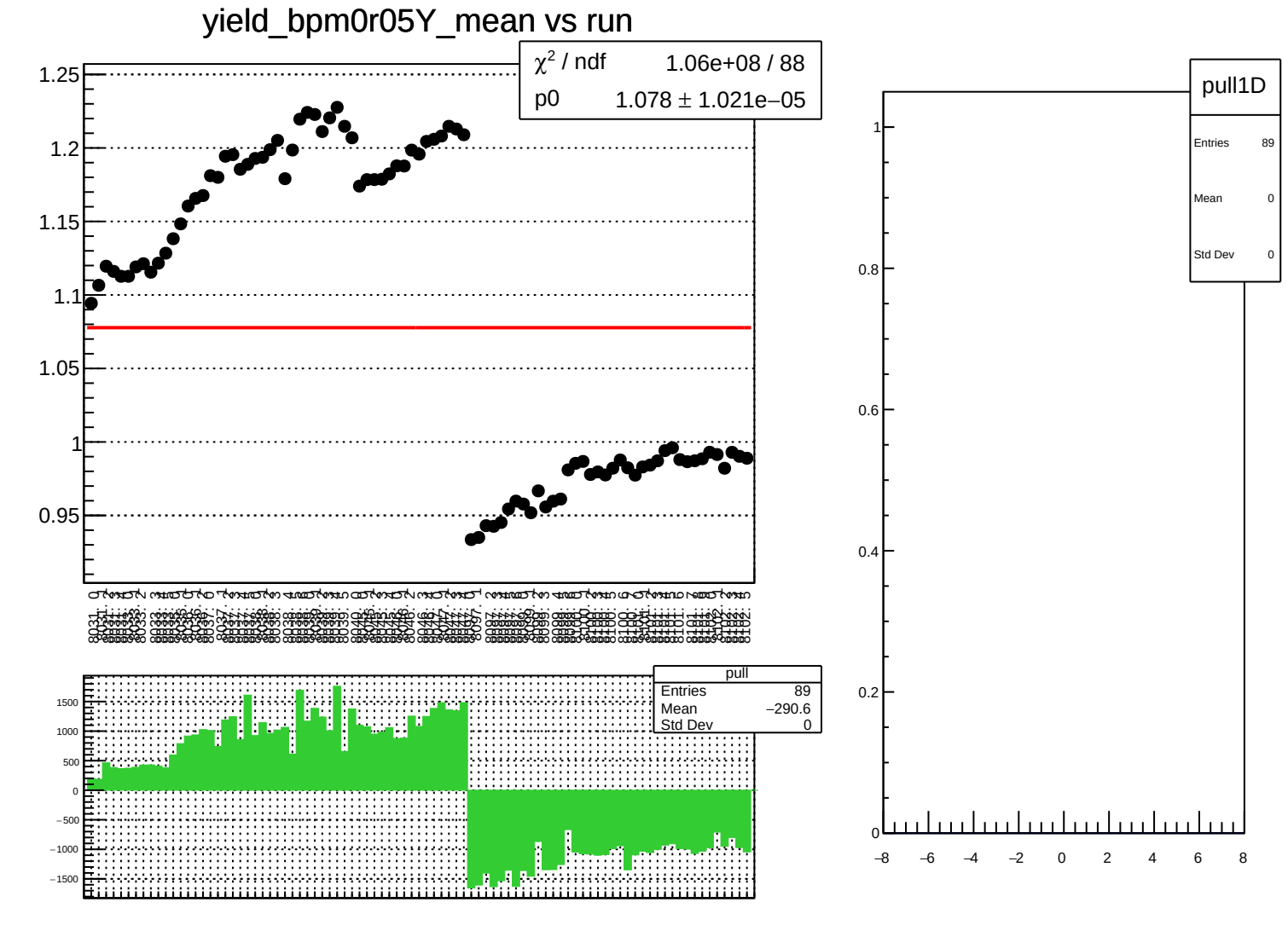

yield_bpm0r03Y_mean vs run
χ² / ndf 4.398e+08 / 88
p0 −0.2293 ± 7.638e−06
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
−0.35
−0.4
−0.45
pull
Entries 89
Mean −375.5
Std Dev 0
3000
2000
1000
0
−1000
−2000
−3000
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

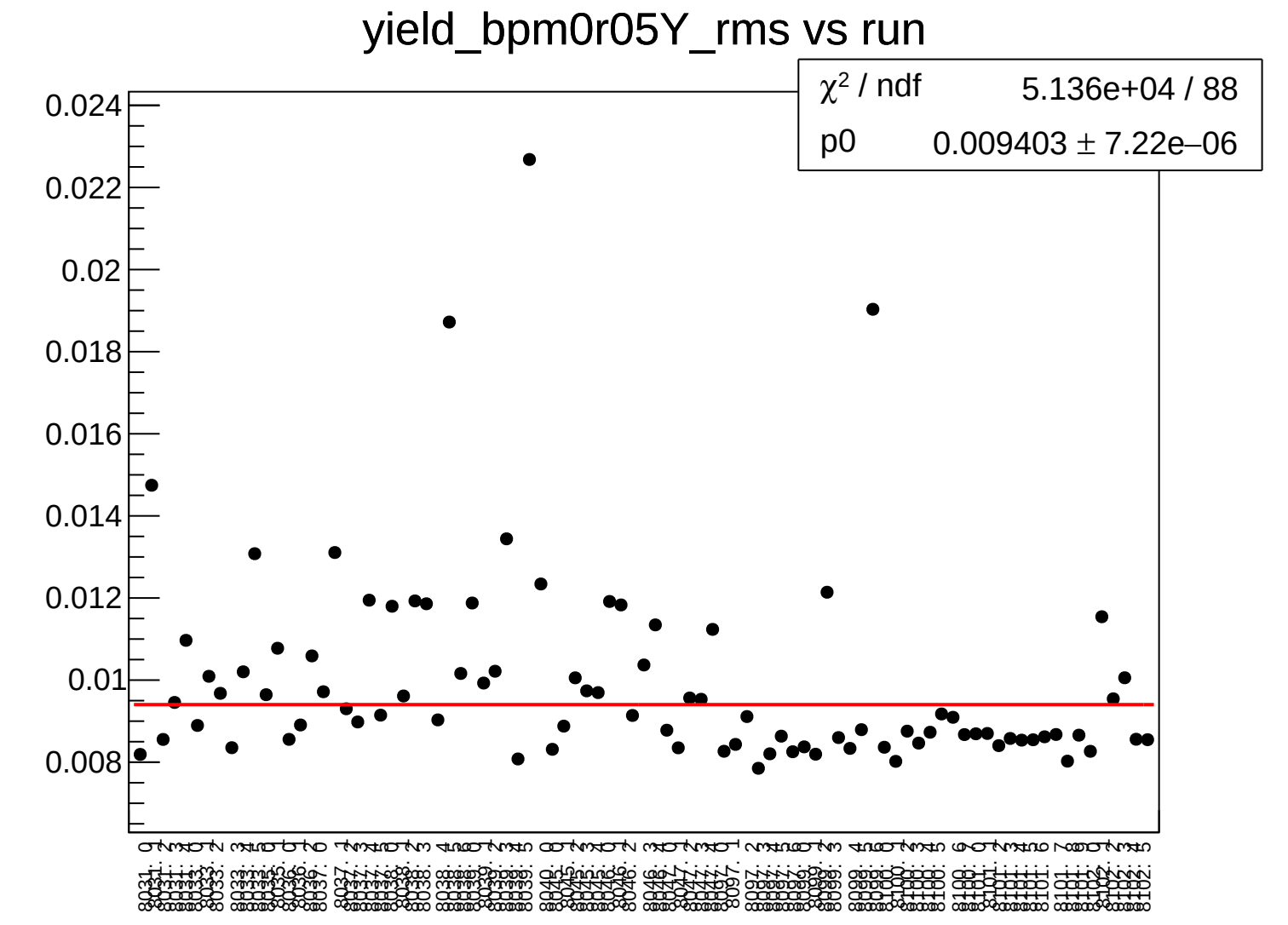

yield_bpm0r03Y_rms vs run
$\chi^2$ / ndf 5.492e+04 / 88
p0 0.007026 ± 5.401e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

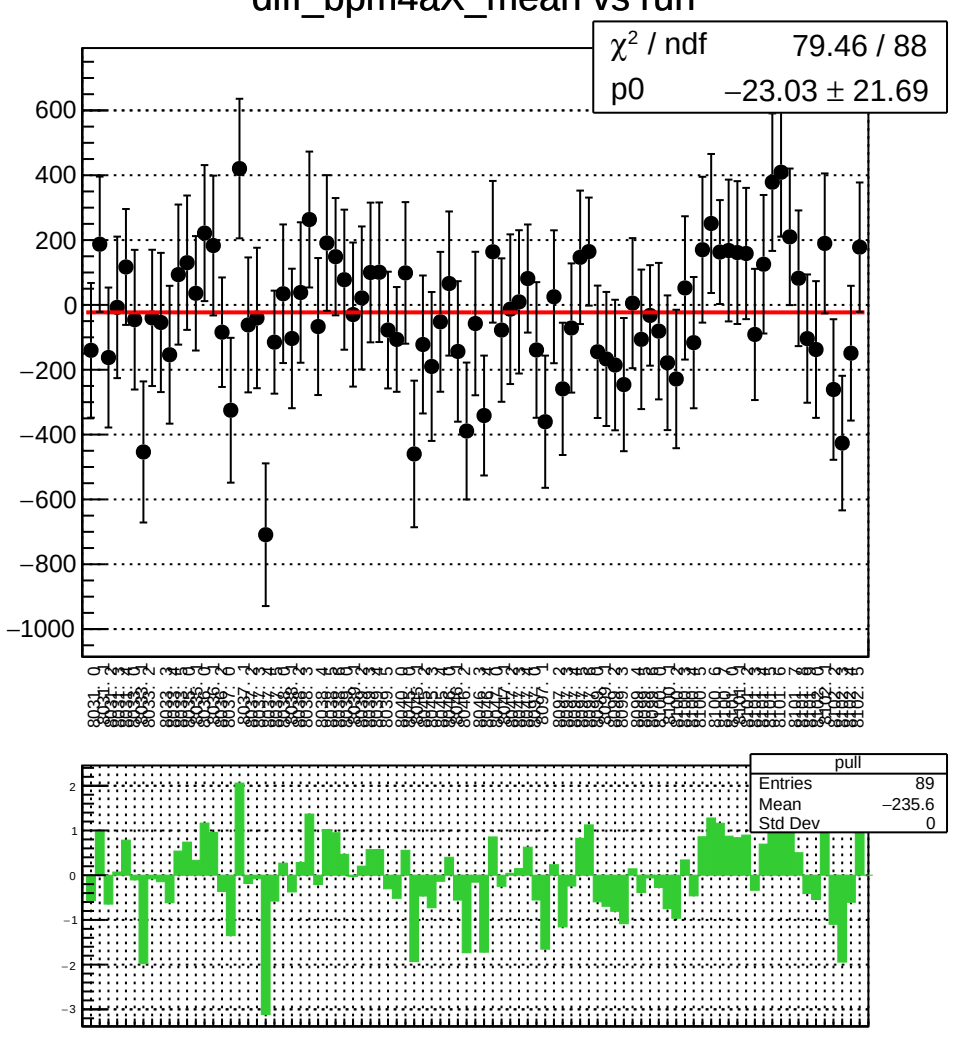

yield_bpm0r05X_mean vs run
χ² / ndf 5.119e+07 / 88
p0 −1.936 ± 0.0001027
−1.2
−1.4
−1.6
−1.8
−2
−2.2
−2.4
−2.6
−2.8
pull
Entries 89
Mean −2.301e+04
Std Dev 0
1000
500
0
−500
−1000

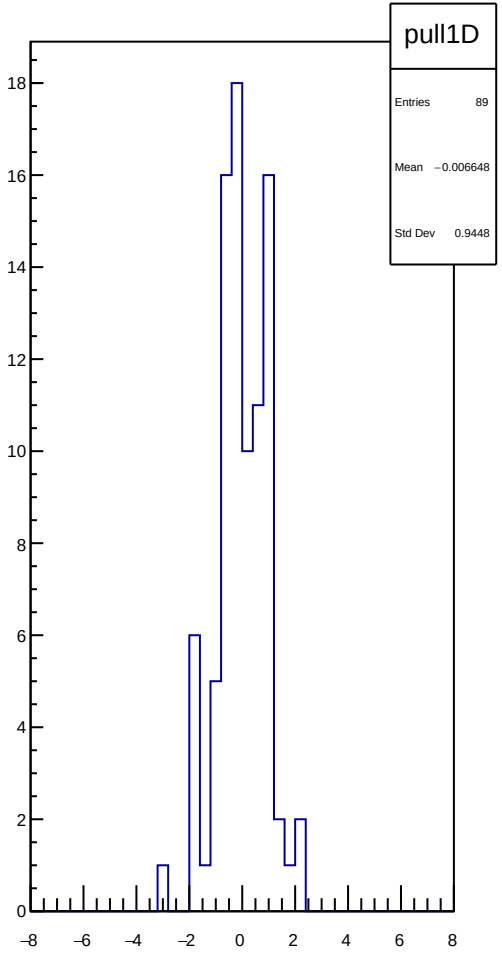

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

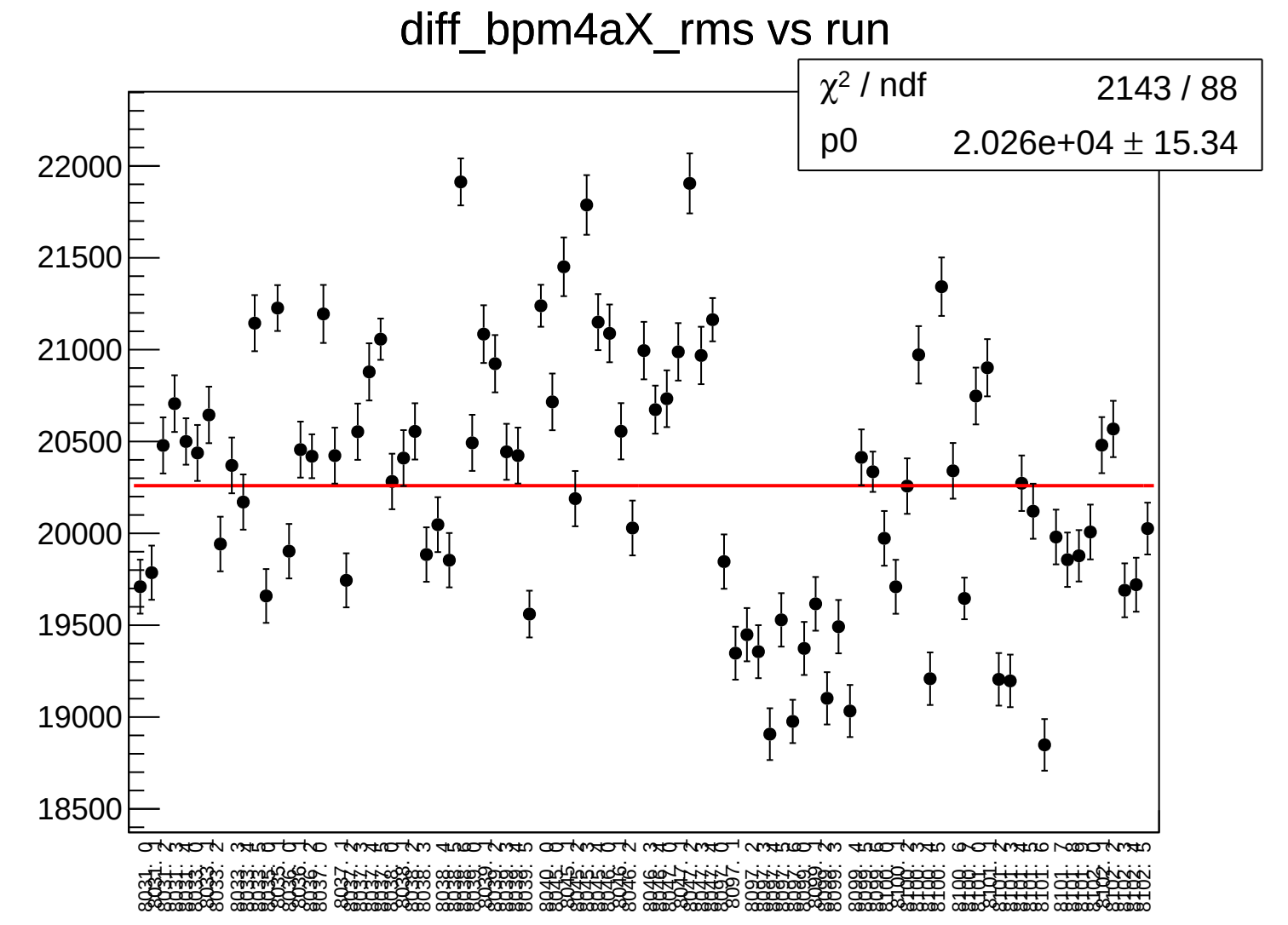

yield_bpm0r05X_rms vs run
χ² / ndf 7407 / 88
p0 0.0958 ± 7.262e−05
0.17
0.16
0.15
0.14
0.13
0.12
0.11
0.1
0.09
0.08

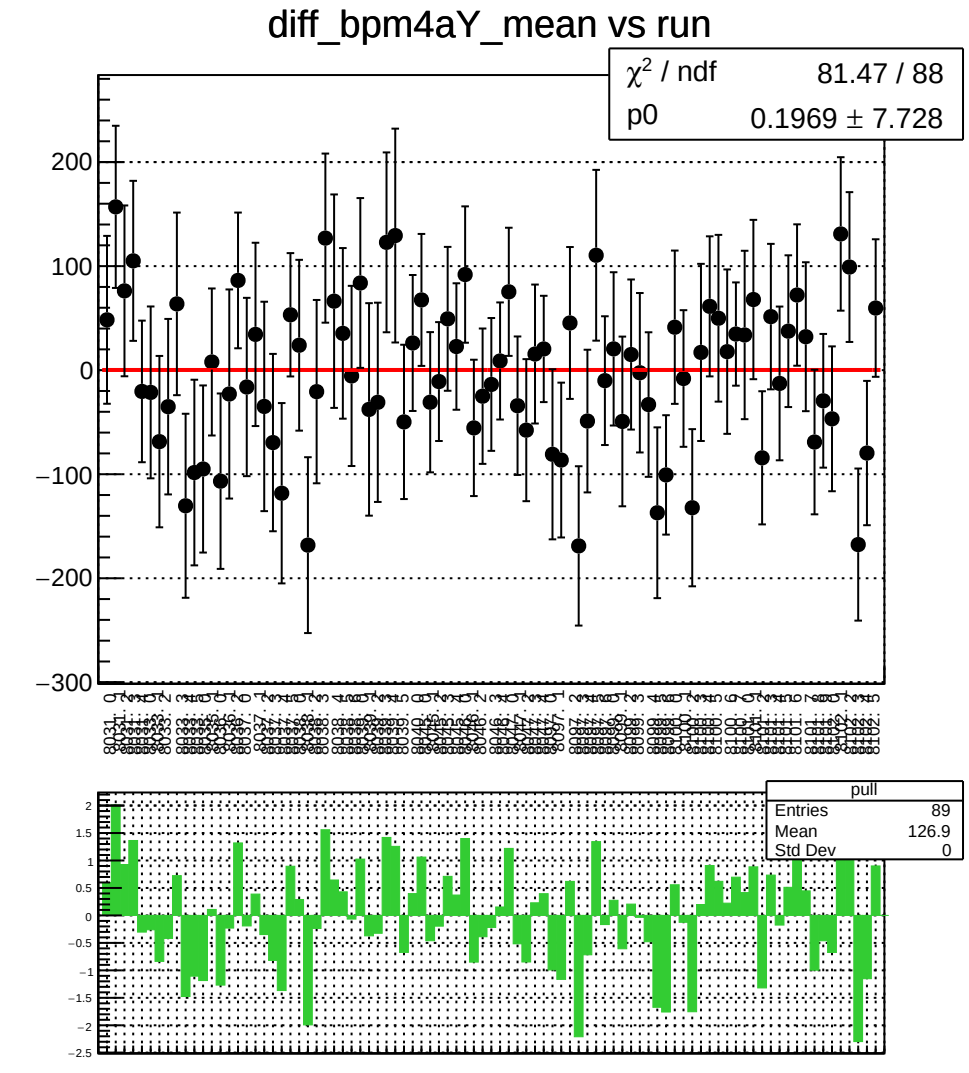

yield_bpm0r05Y_mean vs run
χ² / ndf 1.06e+08 / 88
p0 1.078 ± 1.021e−05
1.25
1.2
1.15
1.1
1.05
1
0.95
pull
Entries 89
Mean −290.6
Std Dev 0
1500
1000
500
0
−500
−1000
−1500
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

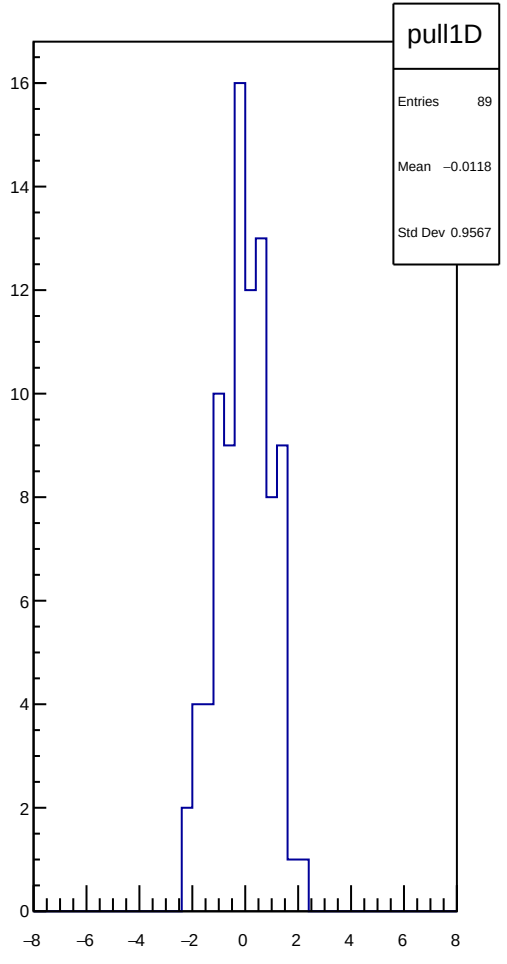

yield_bpm0r05Y_rms vs run
χ² / ndf 5.136e+04 / 88
p0 0.009403 ± 7.22e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

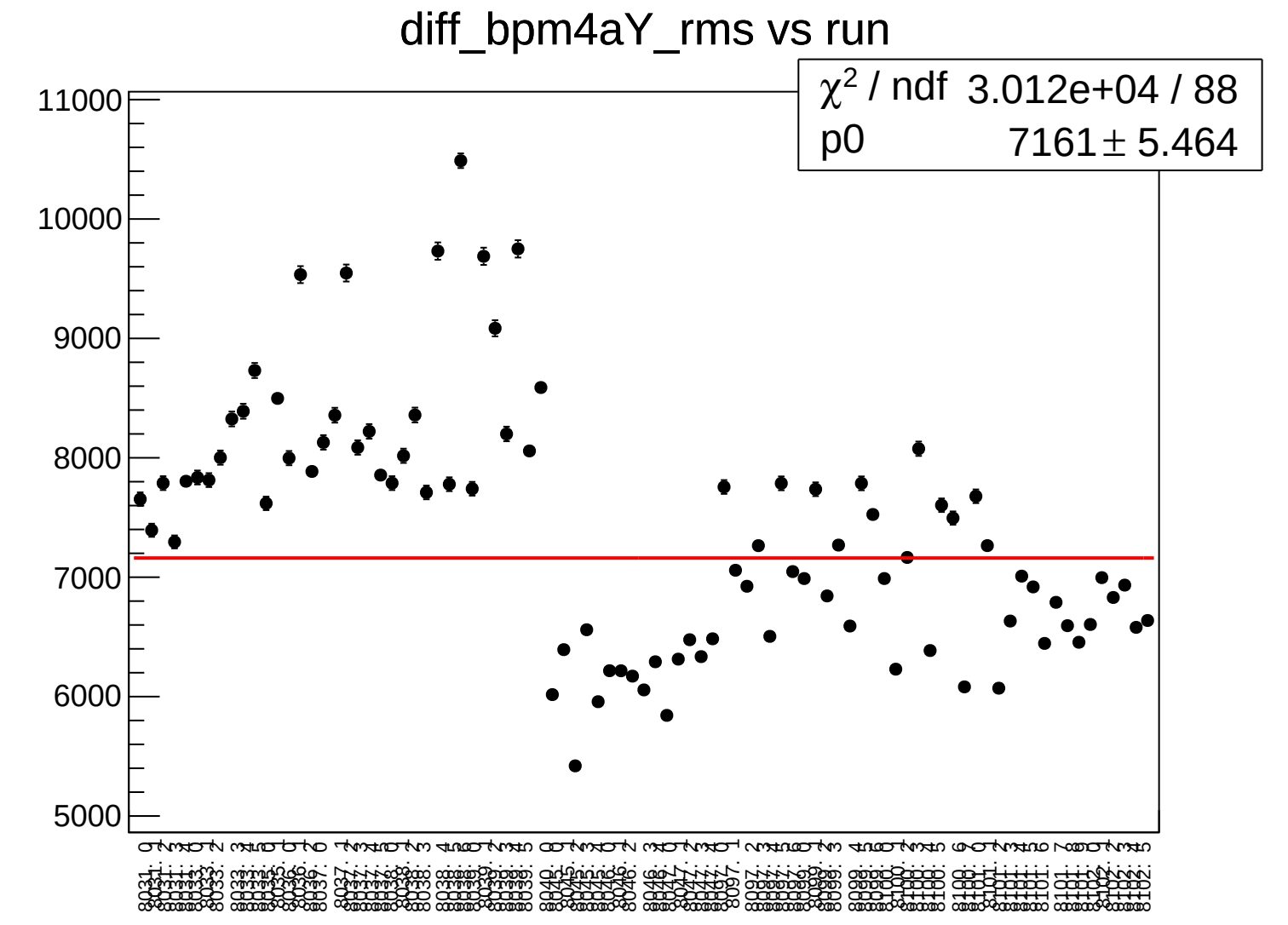

diff_bpm4aX_mean vs run
χ² / ndf 79.46 / 88
p0 −23.03 ± 21.69
pull
Entries 89
Mean −235.6
Std Dev 0

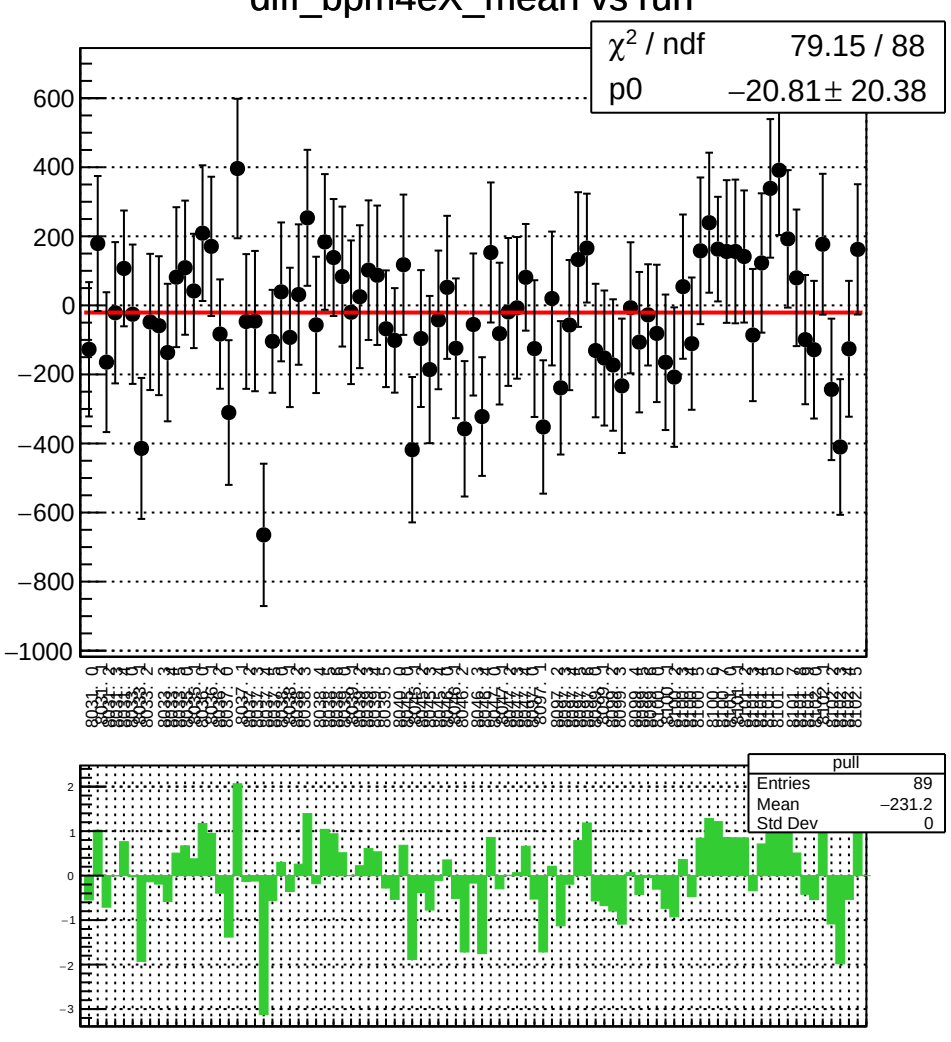

pull1D
Entries 89
Mean −0.006648
Std Dev 0.9448

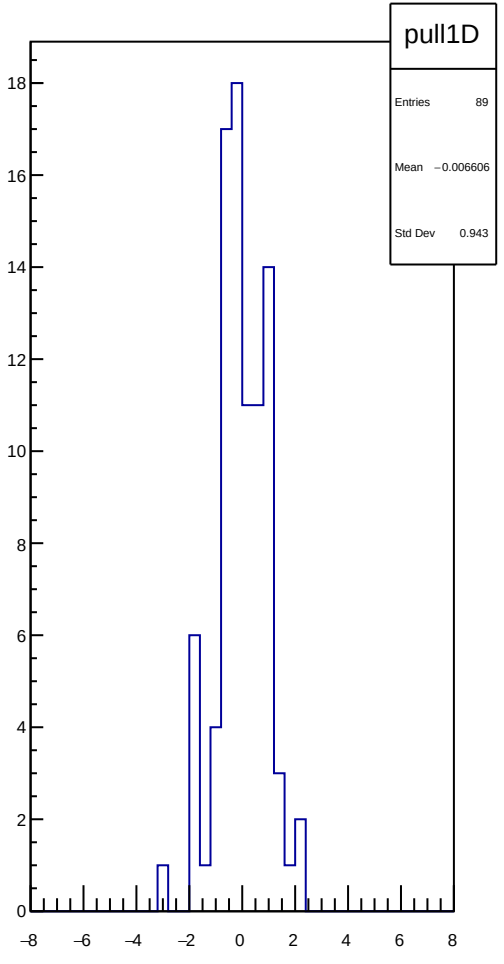

diff_bpm4aX_rms vs run
χ² / ndf 2143 / 88
p0 2.026e+04 ± 15.34
22000
21500
21000
20500
20000
19500
19000
18500

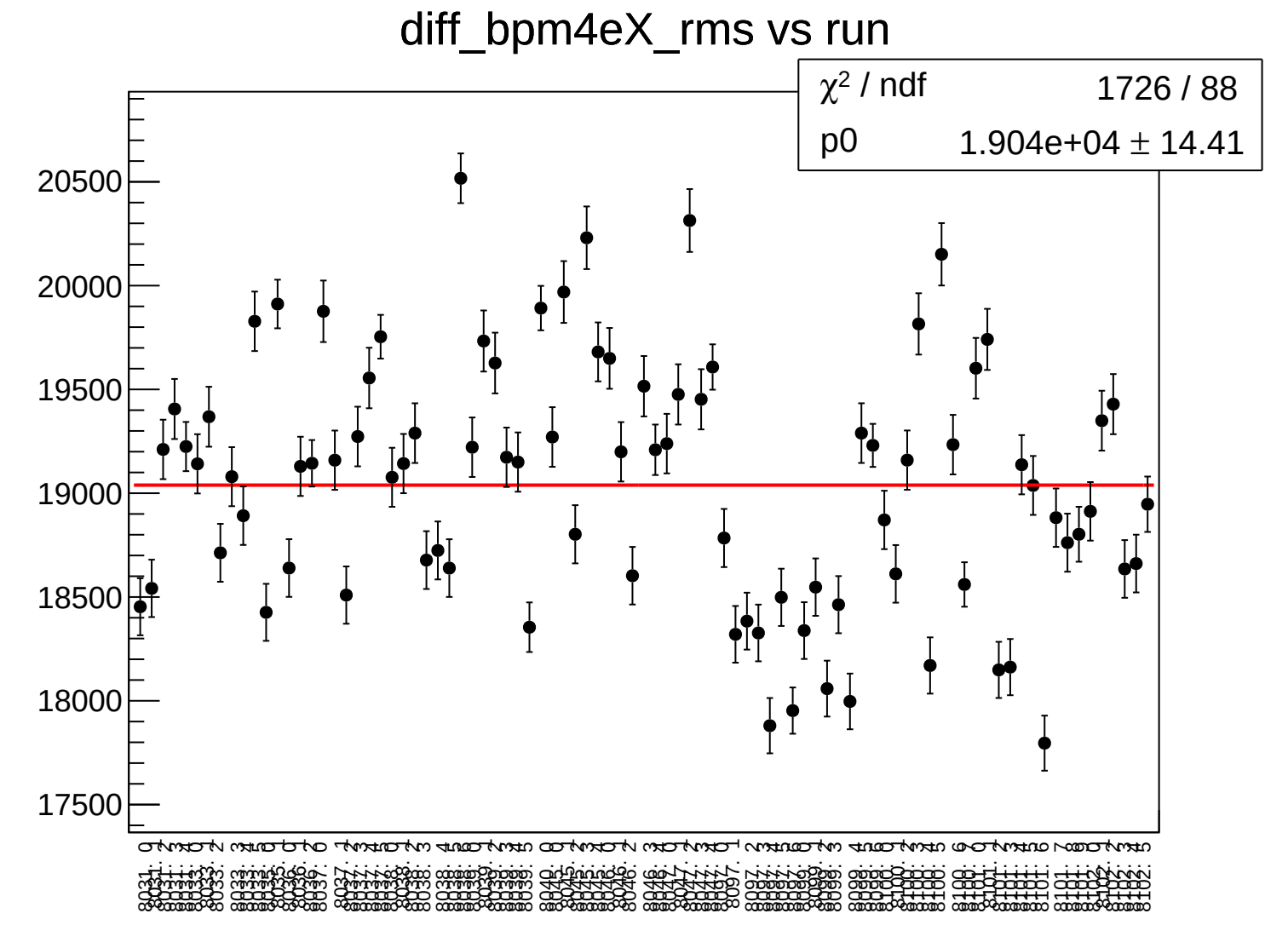

diff_bpm4aY_mean vs run
χ² / ndf 81.47 / 88
p0 0.1969 ± 7.728
200
100
0
−100
−200
−300
pull
Entries 89
Mean 126.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

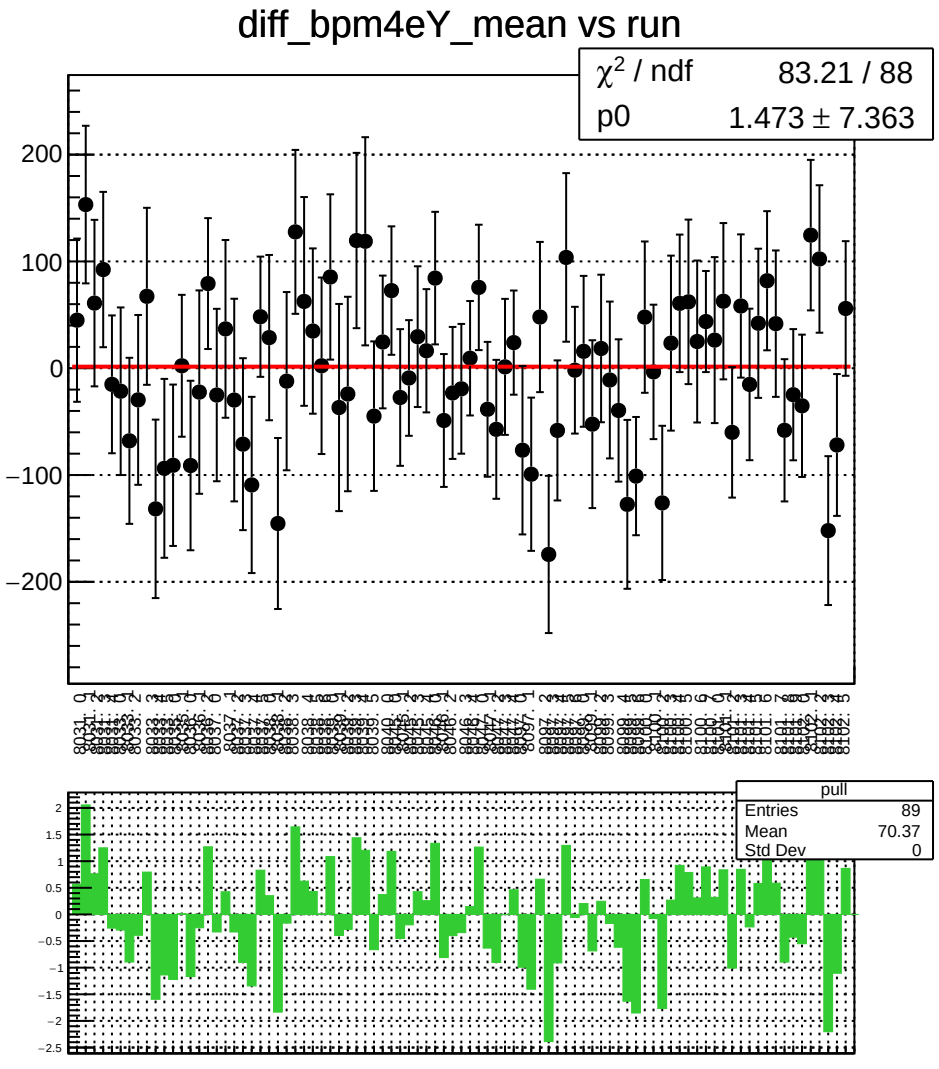

pull1D
Entries 89
Mean −0.0118
Std Dev 0.9567
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

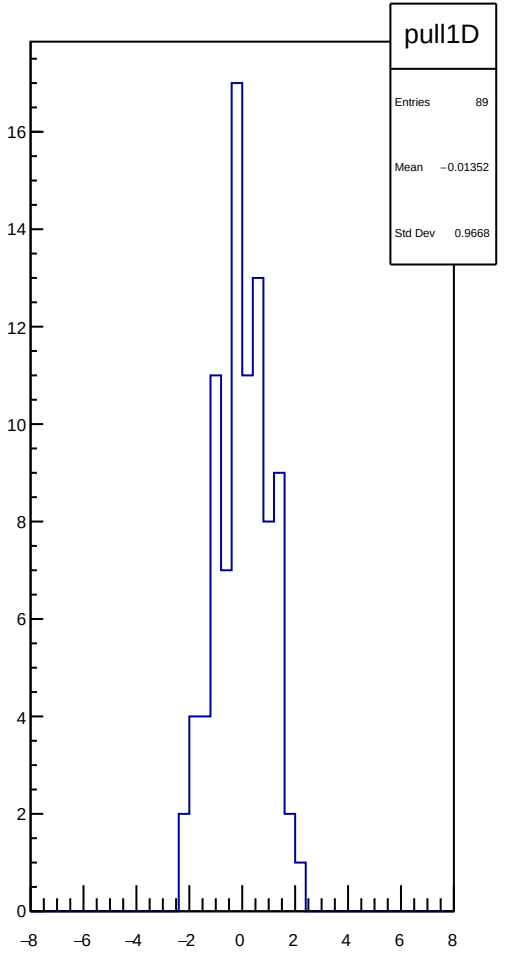

diff_bpm4aY_rms vs run
χ² / ndf 3.012e+04 / 88
p0 7161 ± 5.464
11000
10000
9000
8000
7000
6000
5000

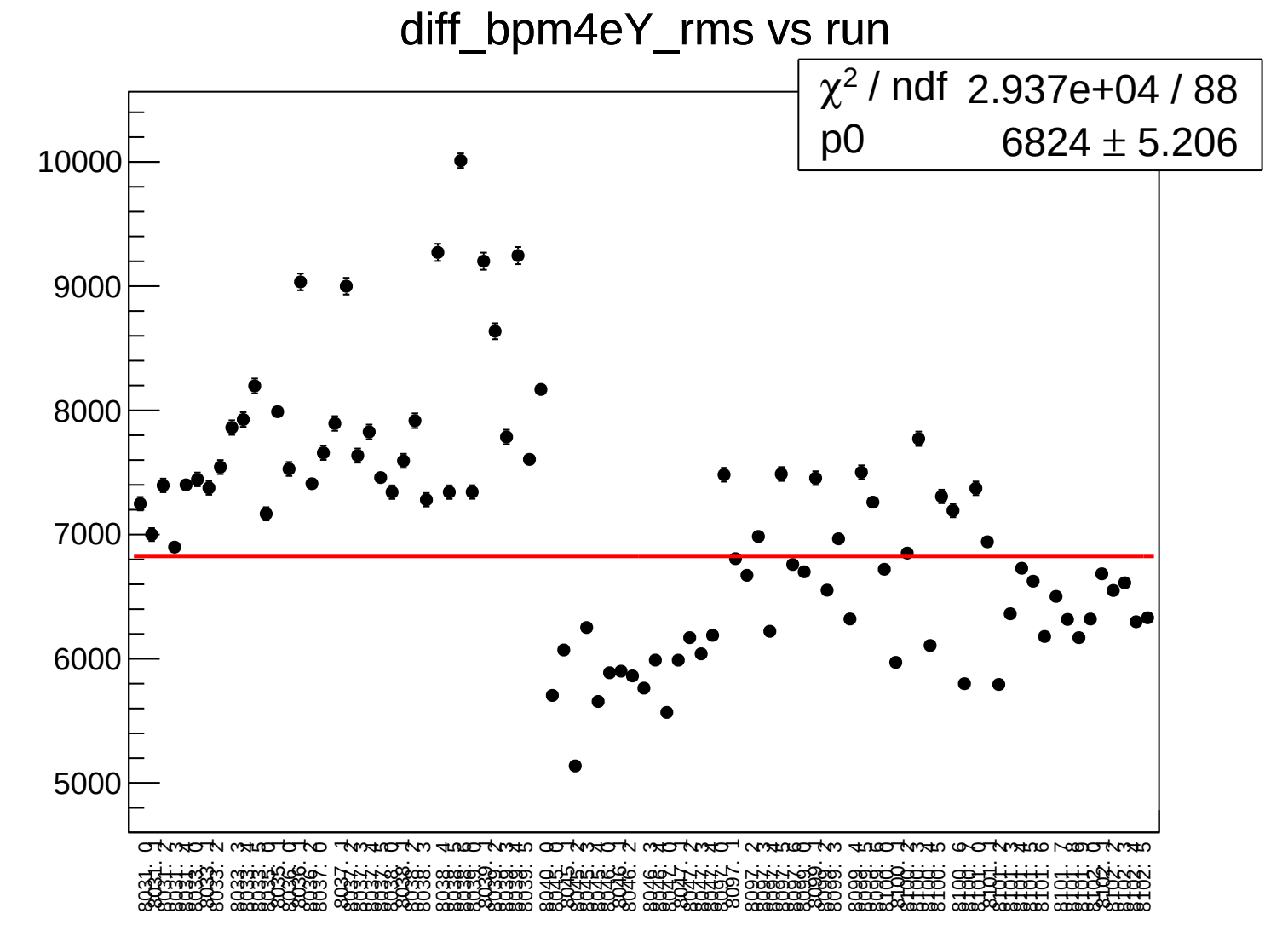

diff_bpm4eX_mean vs run
χ² / ndf 79.15 / 88
p0 −20.81± 20.38
pull
Entries 89
Mean −231.2
Std Dev 0

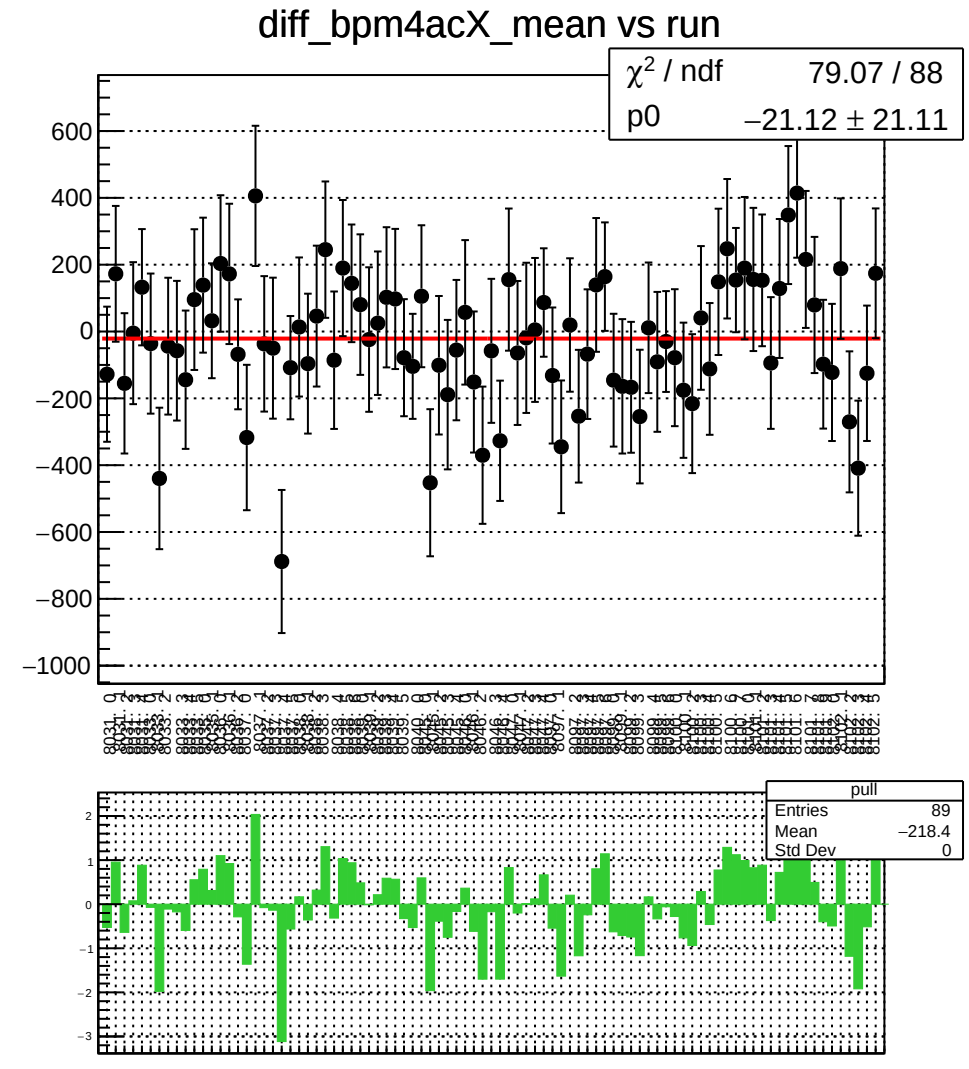

pull1D
Entries 89
Mean −0.006606
Std Dev 0.943

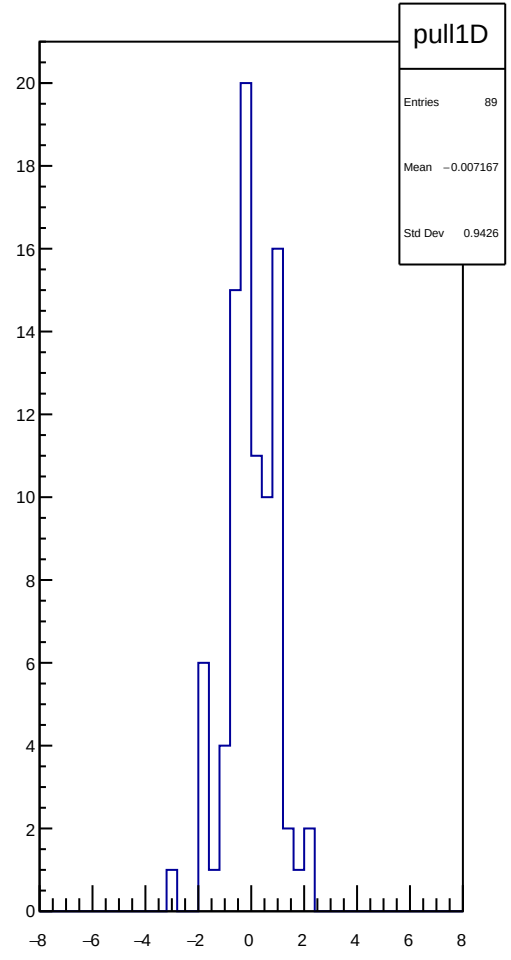

diff_bpm4eX_rms vs run
χ² / ndf 1726 / 88
p0 1.904e+04 ± 14.41
20500
20000
19500
19000
18500
18000
17500

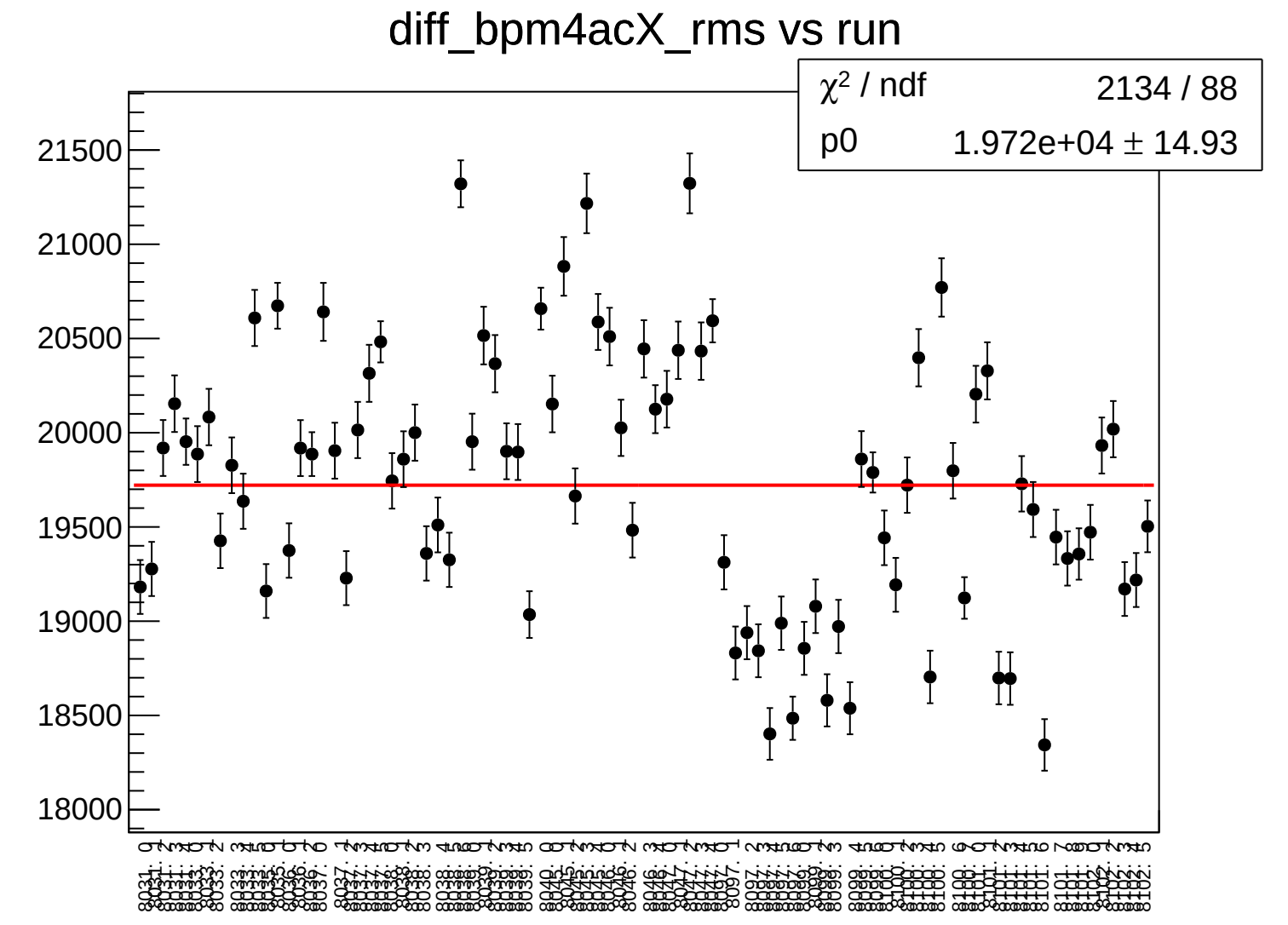

diff_bpm4eY_mean vs run
$\chi^2$ / ndf 83.21 / 88
p0 1.473 ± 7.363
200
100
0
−100
−200
pull
Entries 89
Mean 70.37
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

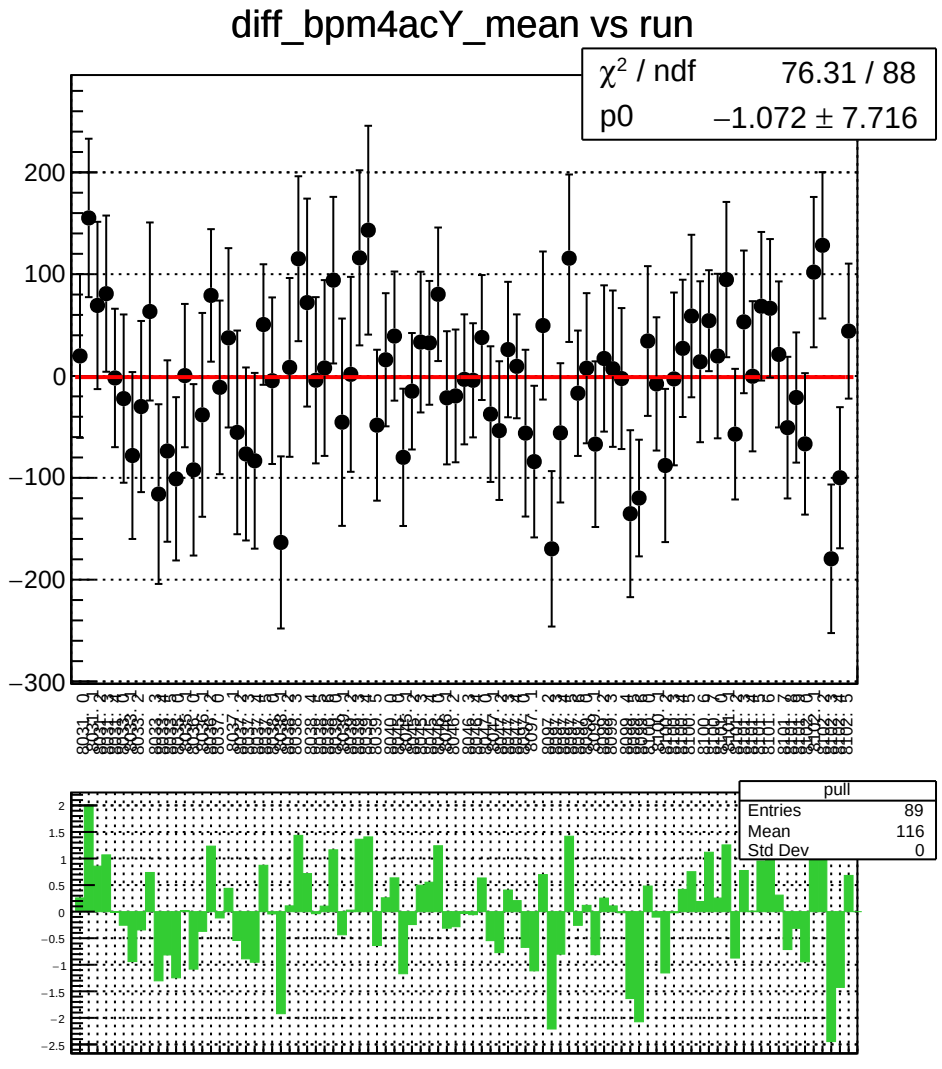

pull1D
Entries 89
Mean −0.01352
Std Dev 0.9668
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

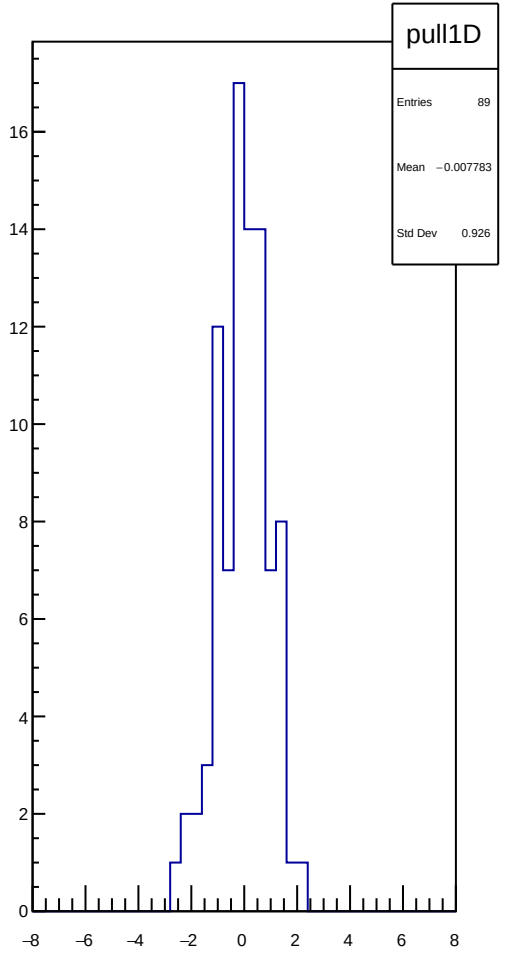

diff_bpm4eY_rms vs run
χ² / ndf 2.937e+04 / 88
p0 6824 ± 5.206
10000
9000
8000
7000
6000
5000

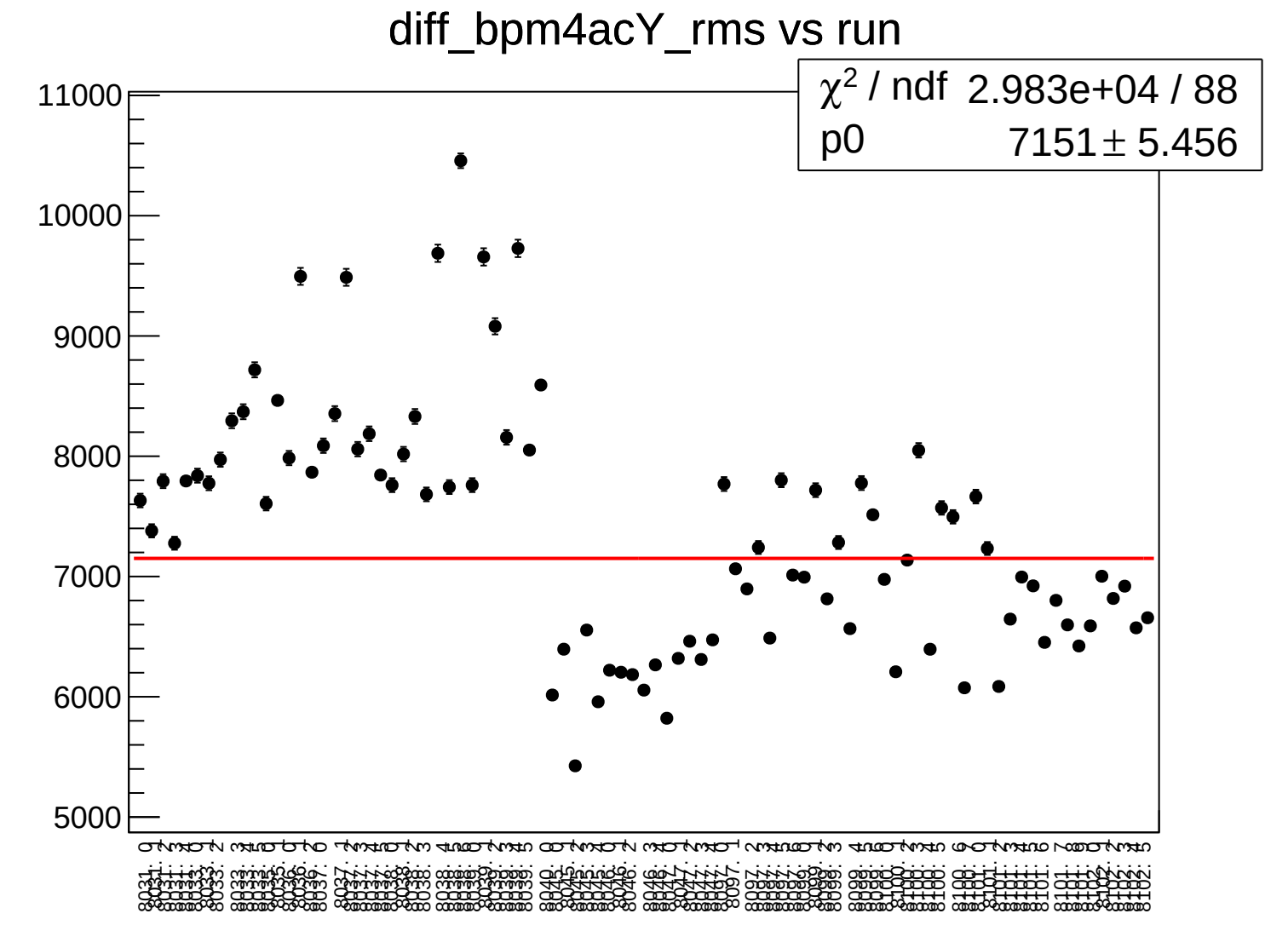

diff_bpm4acX_mean vs run
χ² / ndf 79.07 / 88
p0 −21.12 ± 21.11
pull
Entries 89
Mean −218.4
Std Dev 0

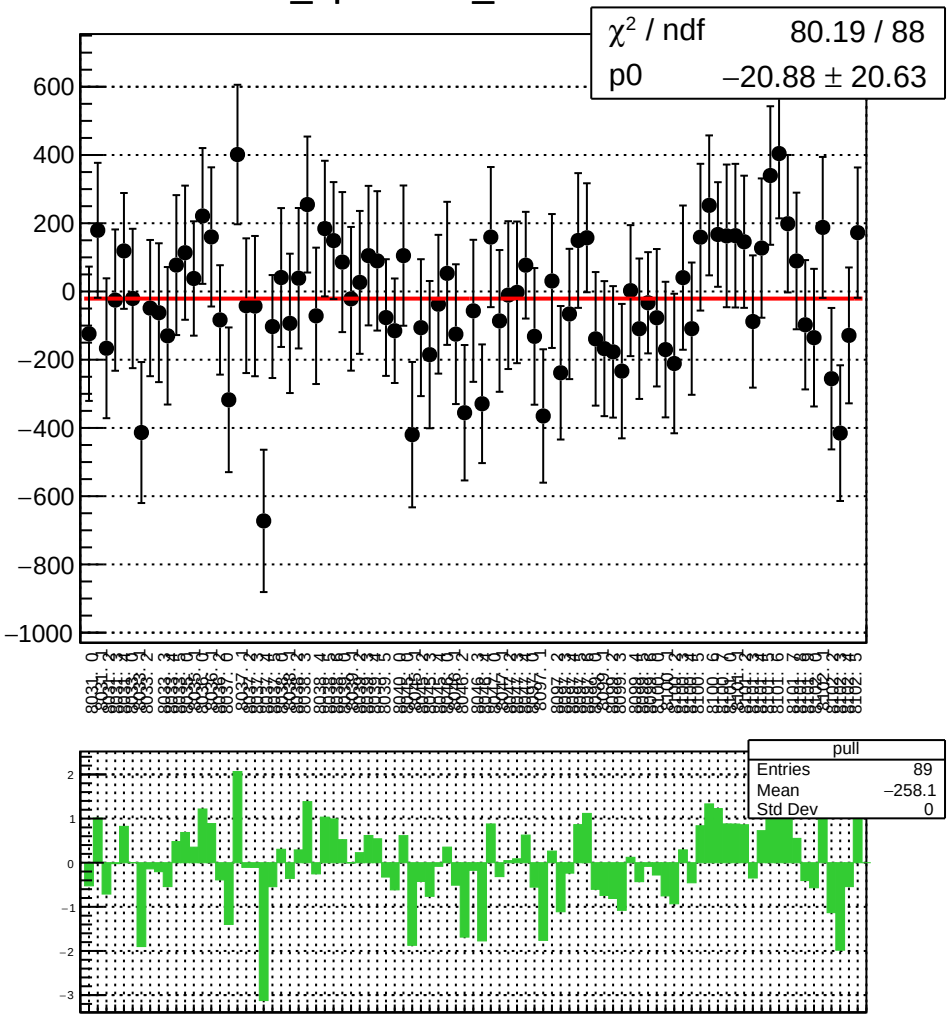

pull1D
Entries 89
Mean −0.007167
Std Dev 0.9426

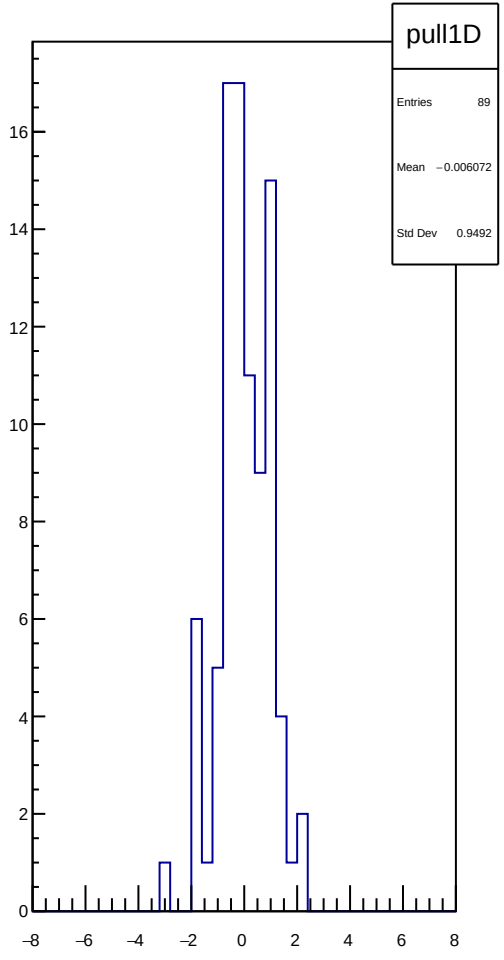

diff_bpm4acX_rms vs run
χ² / ndf 2134 / 88
p0 1.972e+04 ± 14.93
21500
21000
20500
20000
19500
19000
18500
18000

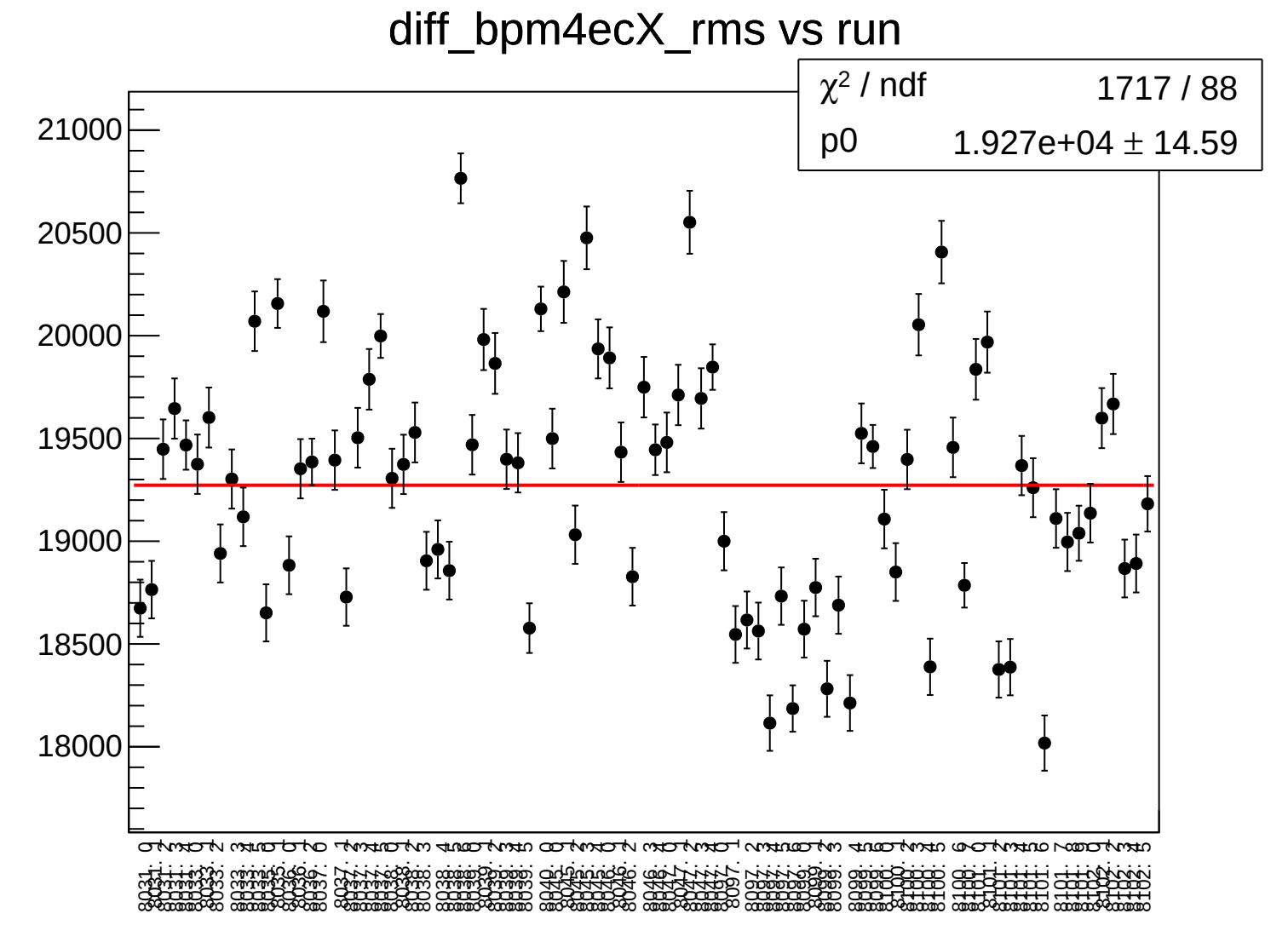

diff_bpm4acY_mean vs run
χ² / ndf 76.31 / 88
p0 −1.072 ± 7.716
200
100
0
−100
−200
−300
pull
Entries 89
Mean 116
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

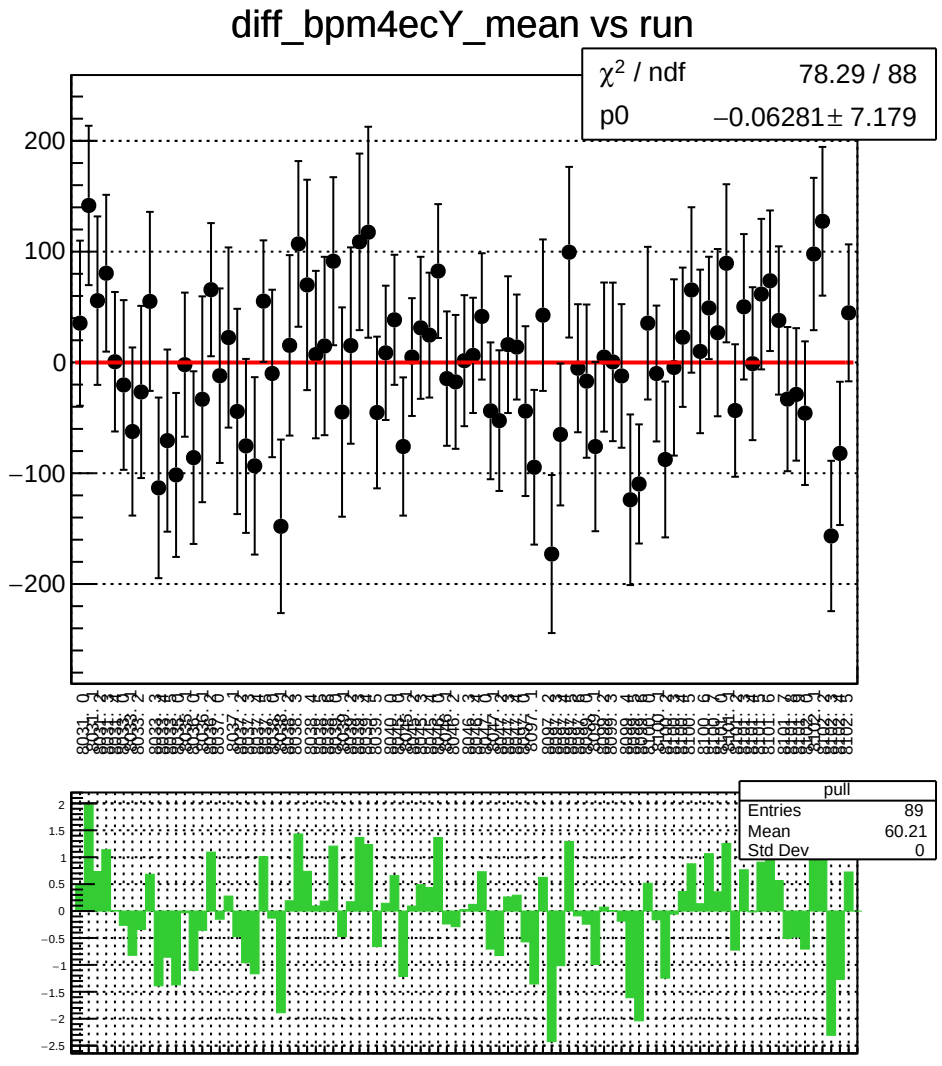

pull1D
Entries 89
Mean −0.007783
Std Dev 0.926
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

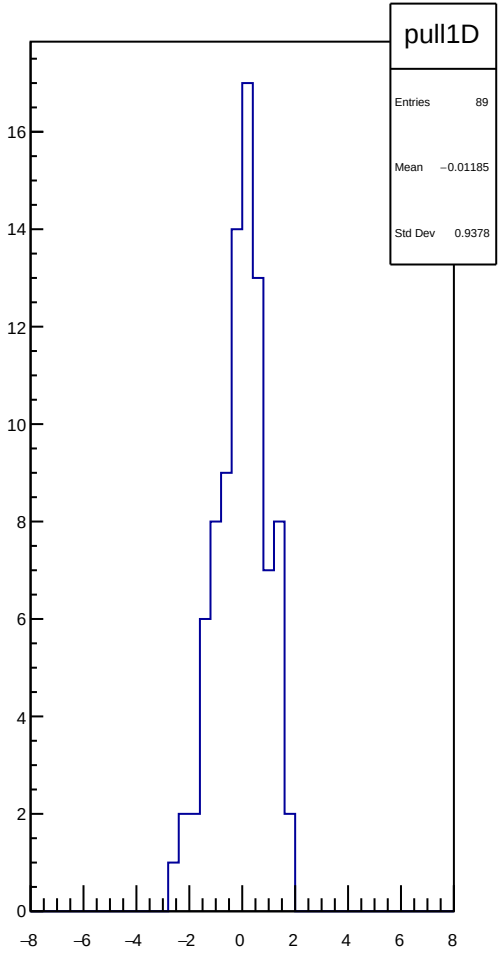

diff_bpm4acY_rms vs run
χ² / ndf 2.983e+04 / 88
p0 7151 ± 5.456
11000
10000
9000
8000
7000
6000
5000

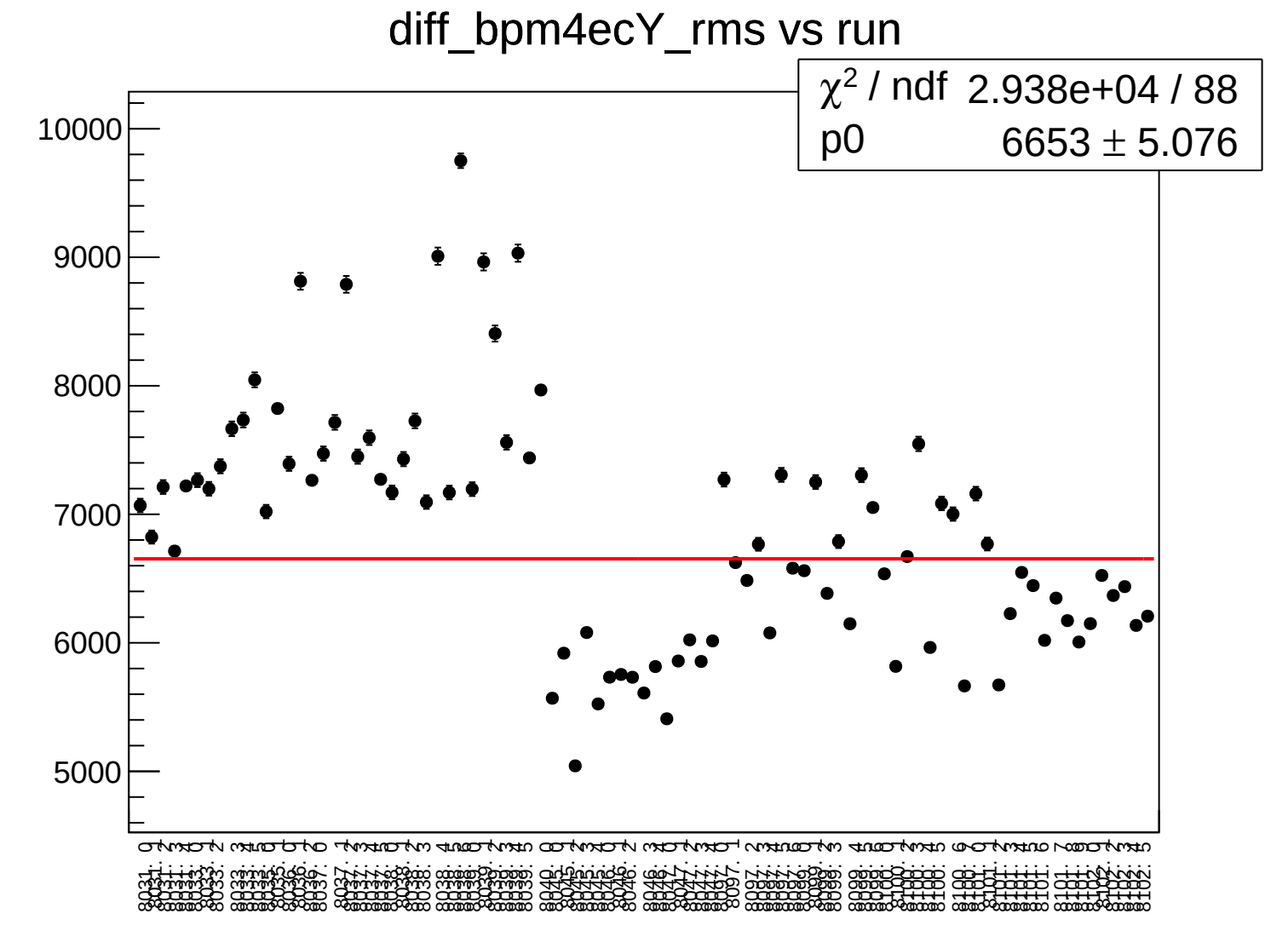

diff_bpm4ecX_mean vs run
χ² / ndf 80.19 / 88
p0 −20.88 ± 20.63
pull
Entries 89
Mean −258.1
Std Dev 0

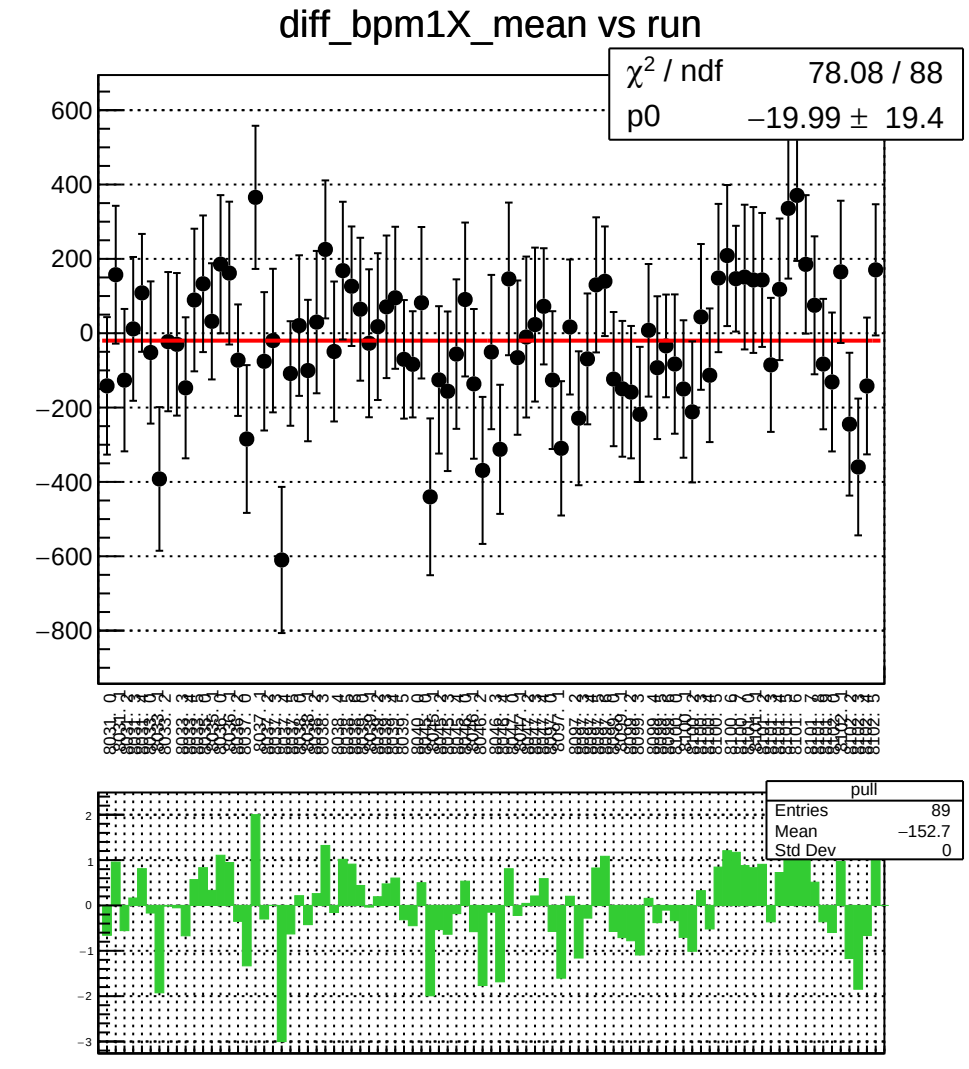

pull1D
Entries 89
Mean −0.006072
Std Dev 0.9492

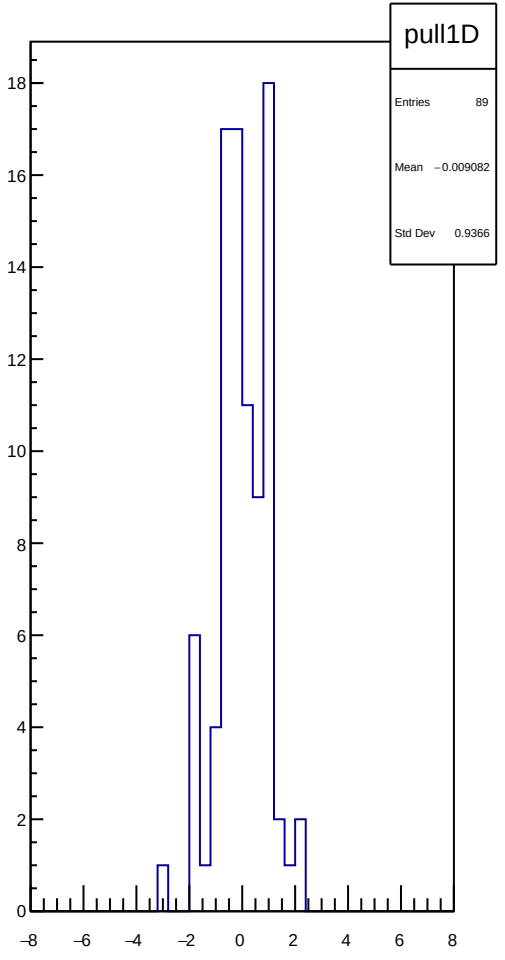

diff_bpm4ecX_rms vs run
χ² / ndf 1717 / 88
p0 1.927e+04 ± 14.59
21000
20500
20000
19500
19000
18500
18000

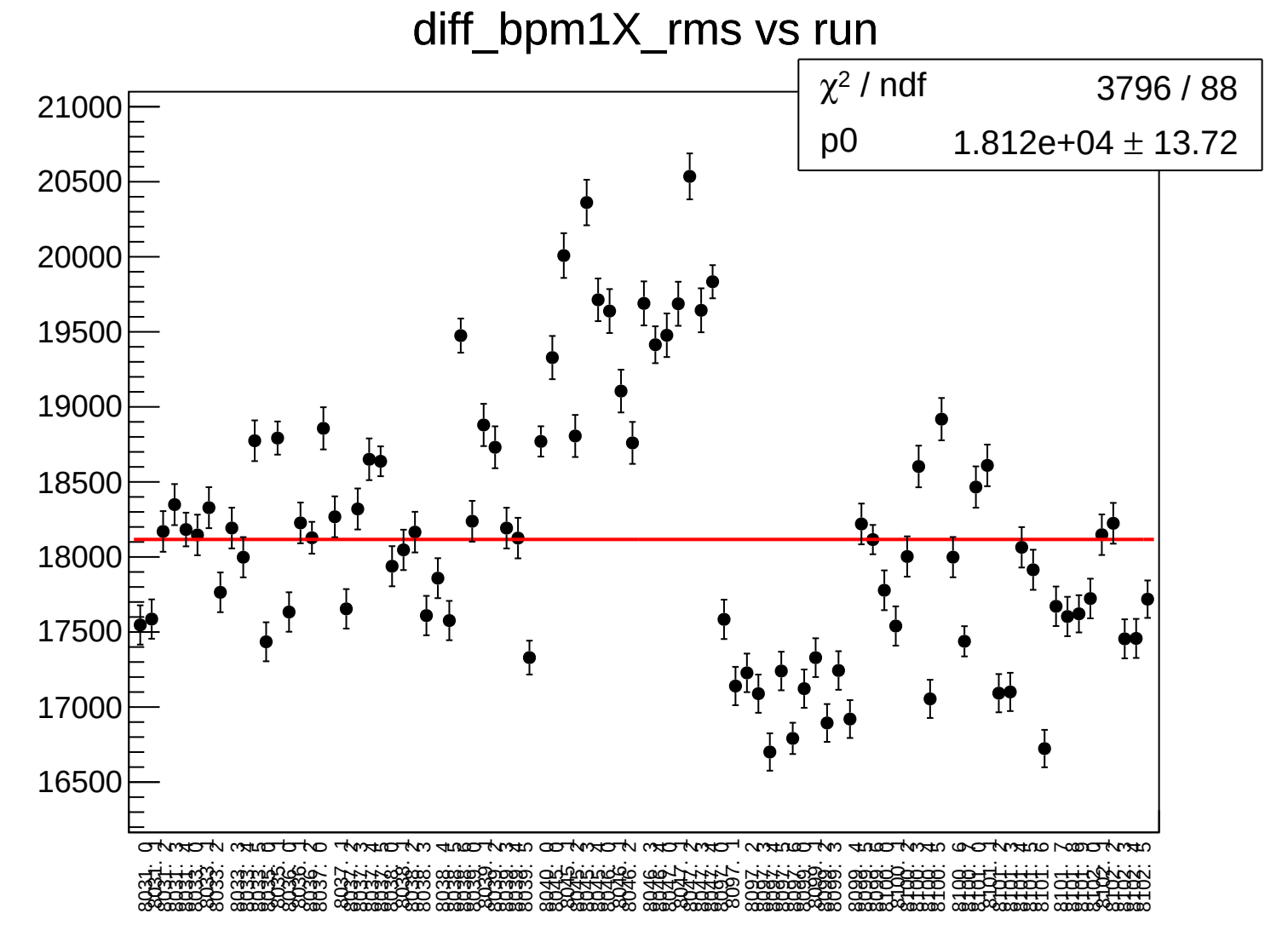

diff_bpm4ecY_mean vs run
χ² / ndf 78.29 / 88
p0 −0.06281 ± 7.179
200
100
0
−100
−200
pull
Entries 89
Mean 60.21
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

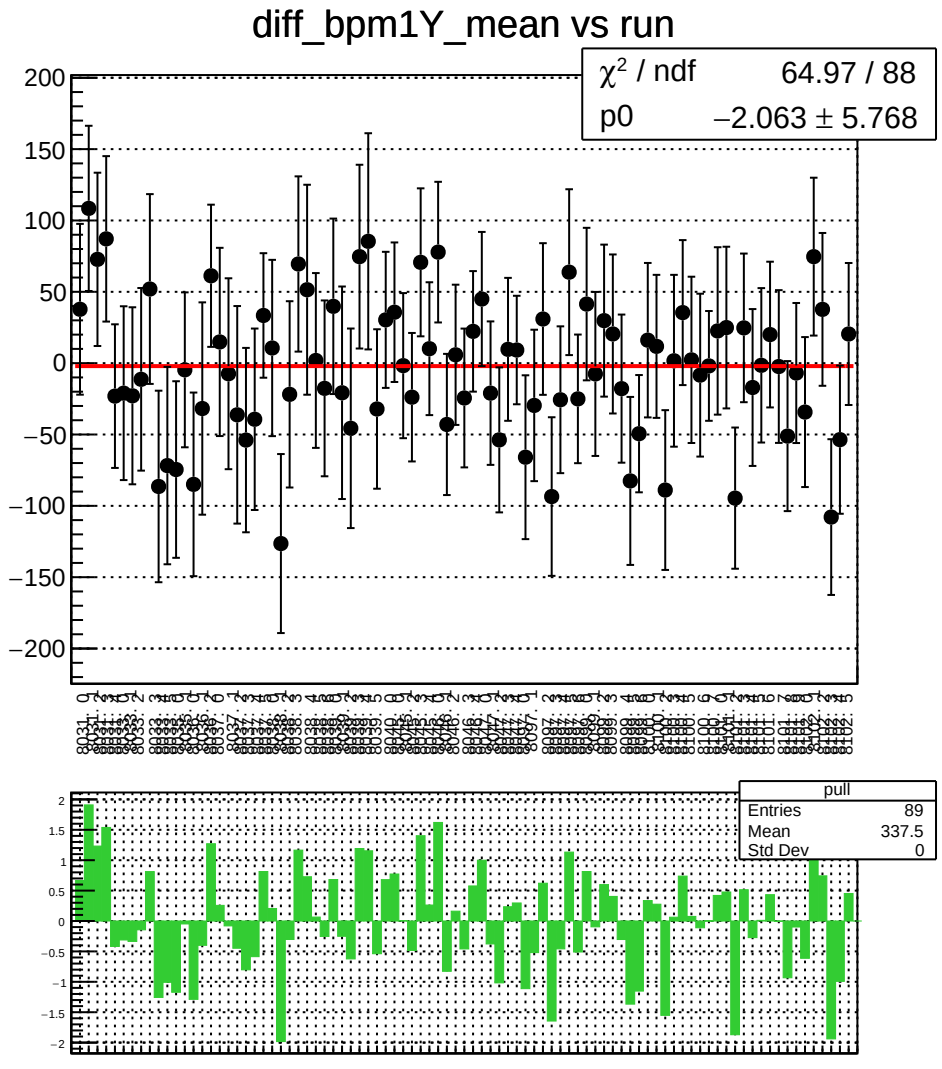

pull1D
Entries 89
Mean −0.01185
Std Dev 0.9378
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

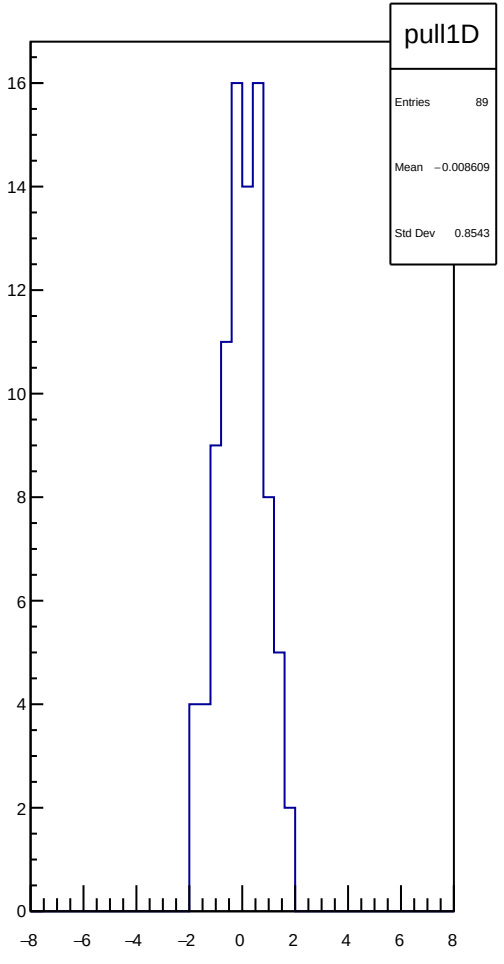

diff_bpm4ecY_rms vs run
$\chi^2$ / ndf 2.938e+04 / 88
p0 6653 ± 5.076
10000
9000
8000
7000
6000
5000

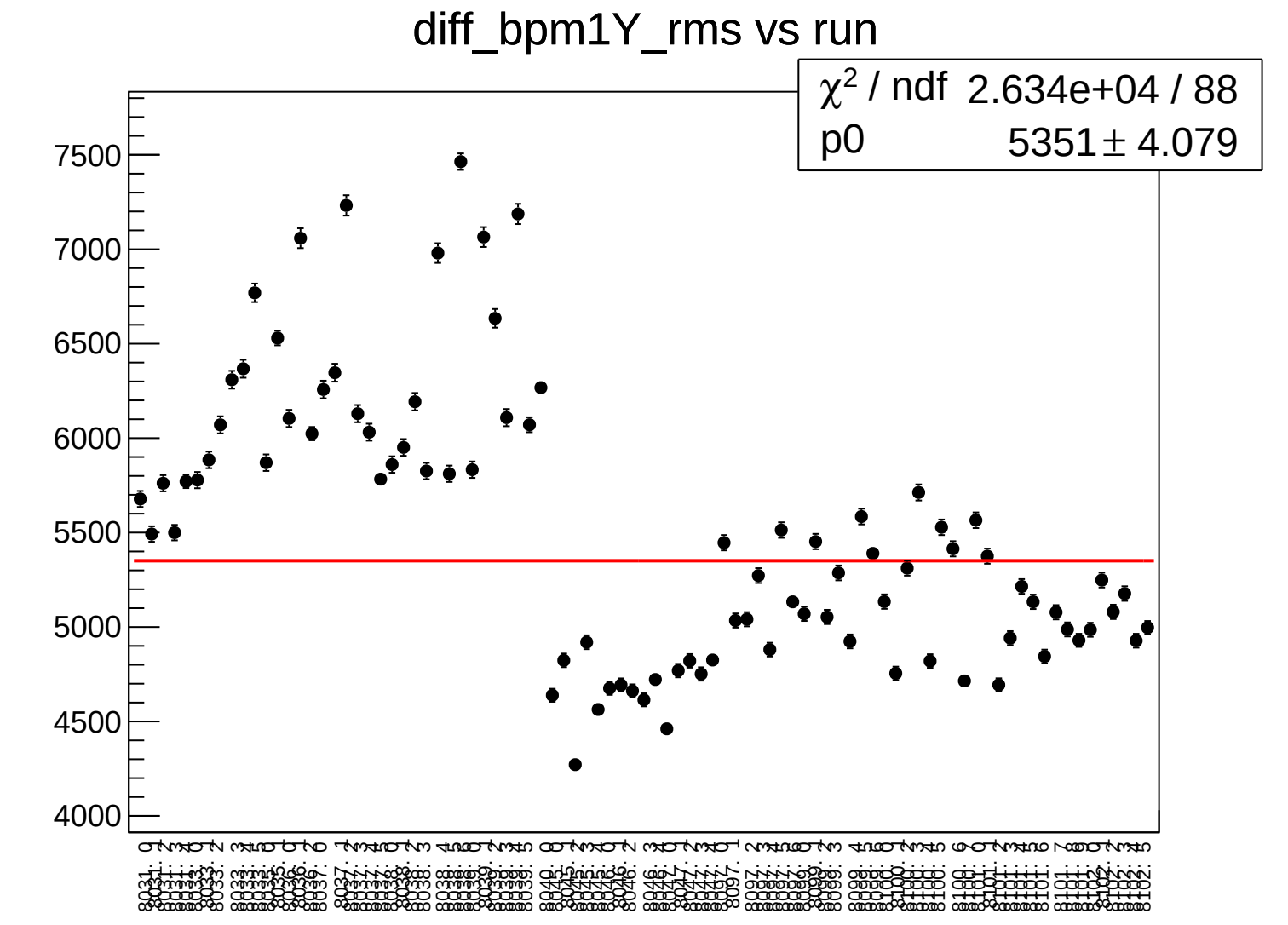

diff_bpm1X_mean vs run
χ² / ndf 78.08 / 88
p0 −19.99 ± 19.4
pull
Entries 89
Mean −152.7
Std Dev 0

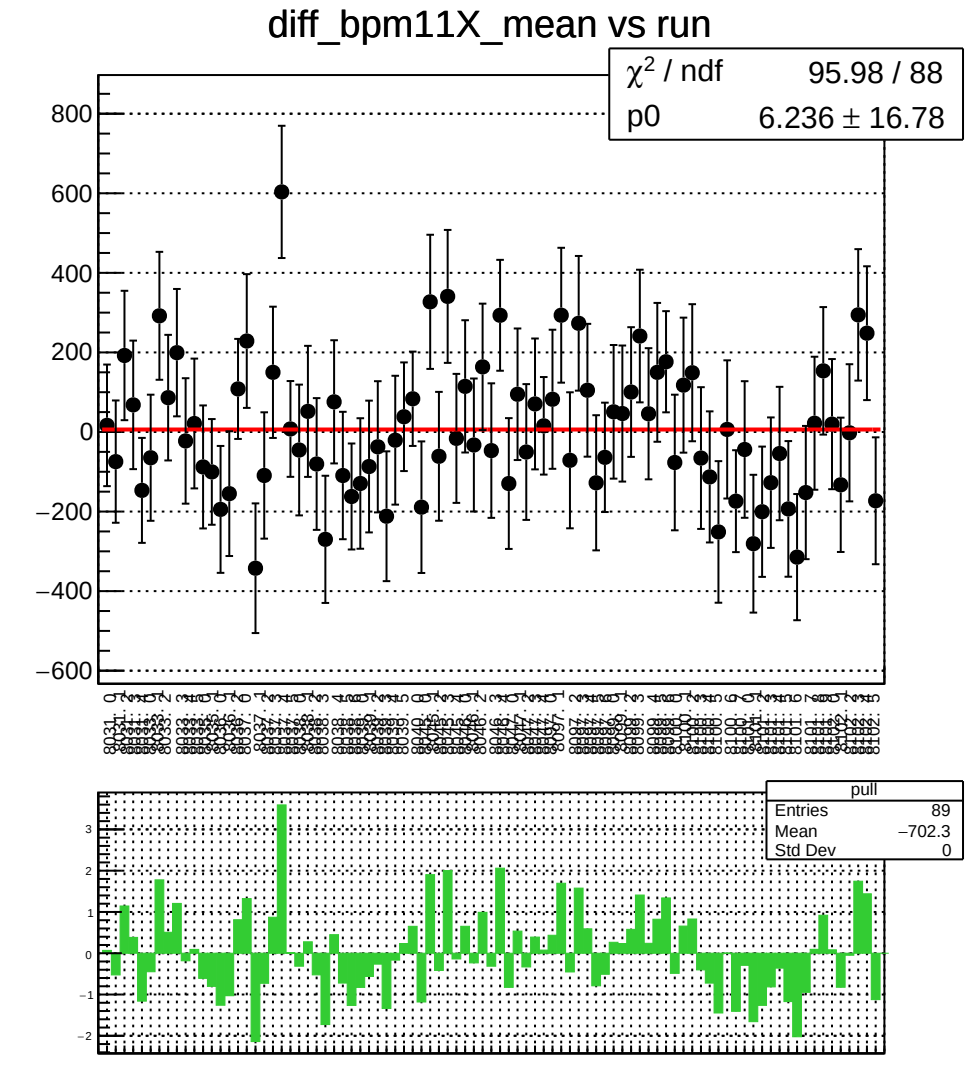

pull1D
Entries 89
Mean −0.009082
Std Dev 0.9366

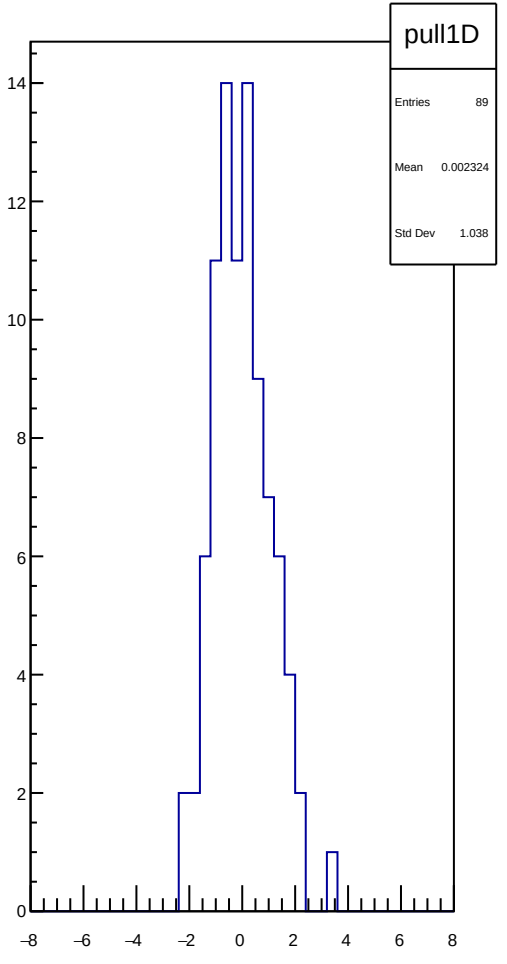

diff_bpm1X_rms vs run
χ² / ndf 3796 / 88
p0 1.812e+04 ± 13.72
21000
20500
20000
19500
19000
18500
18000
17500
17000
16500

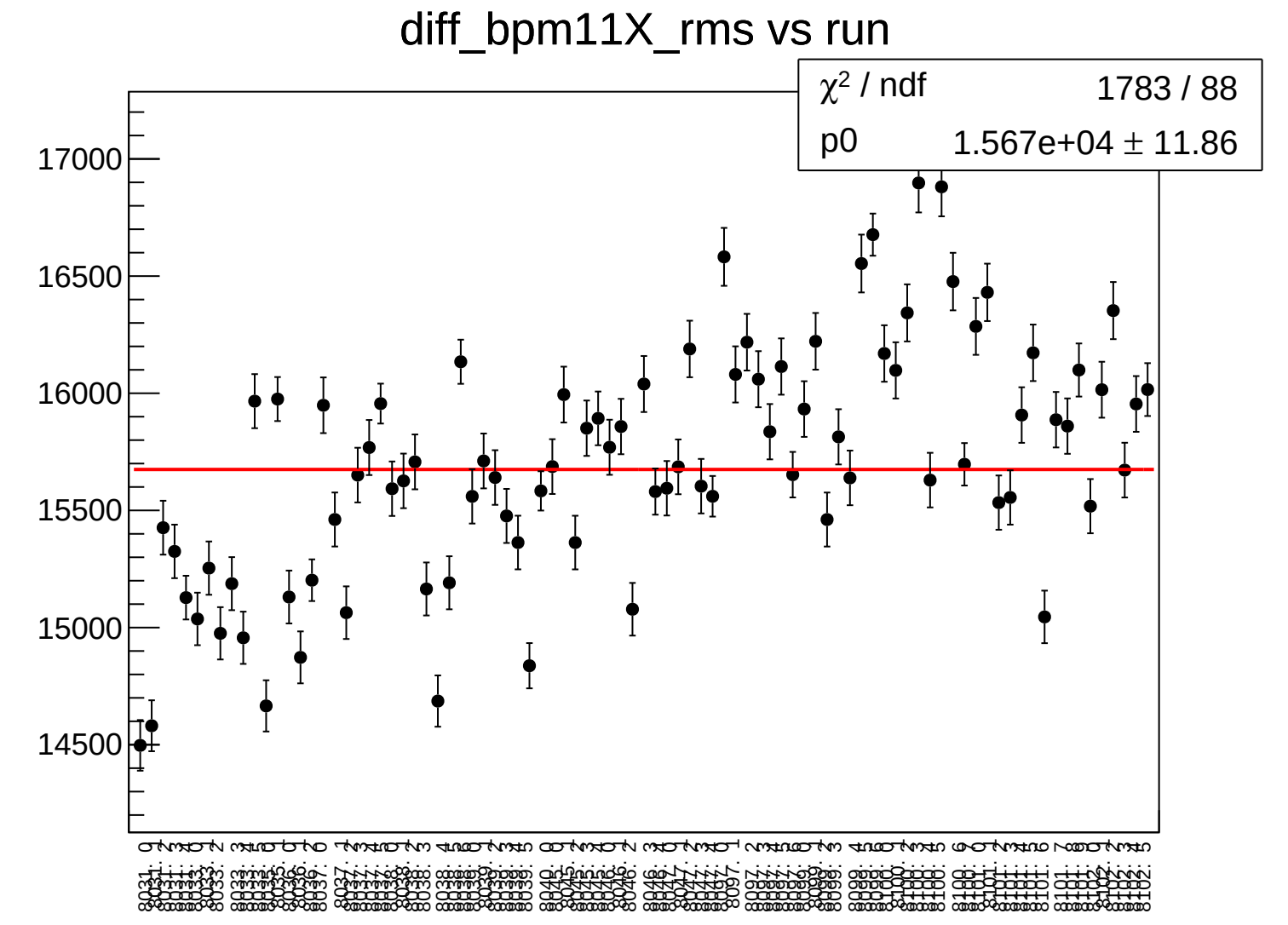

diff_bpm1Y_mean vs run
χ² / ndf 64.97 / 88
p0 −2.063 ± 5.768
pull
Entries 89
Mean 337.5
Std Dev 0

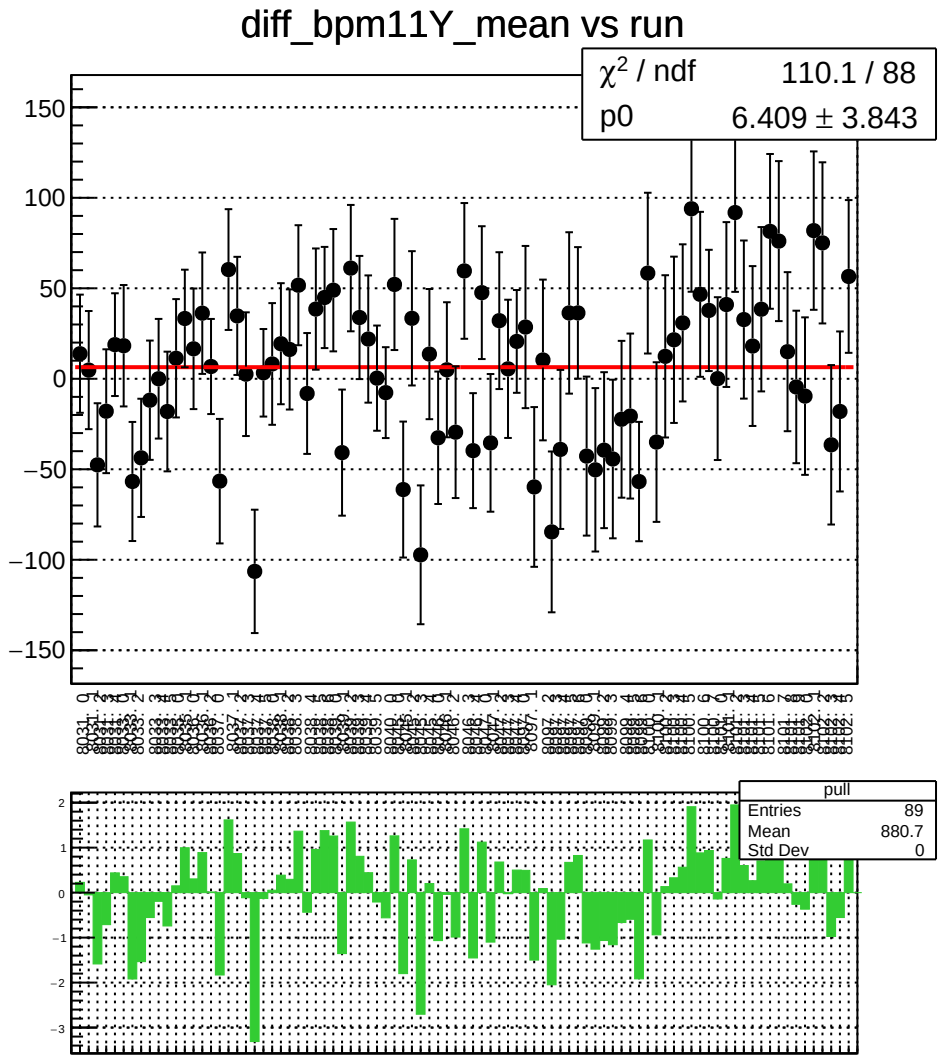

pull1D
Entries 89
Mean −0.008609
Std Dev 0.8543

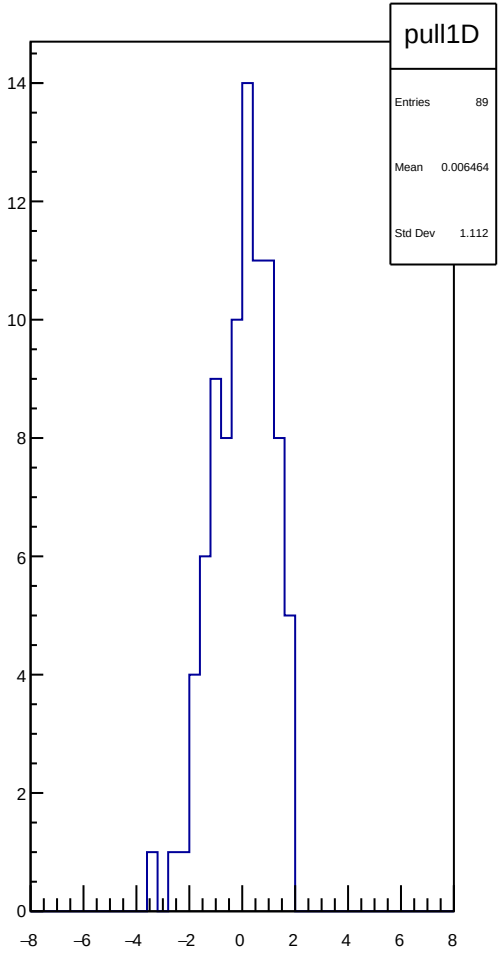

diff_bpm1Y_rms vs run
χ² / ndf 2.634e+04 / 88
p0 5351 ± 4.079
7500
7000
6500
6000
5500
5000
4500
4000

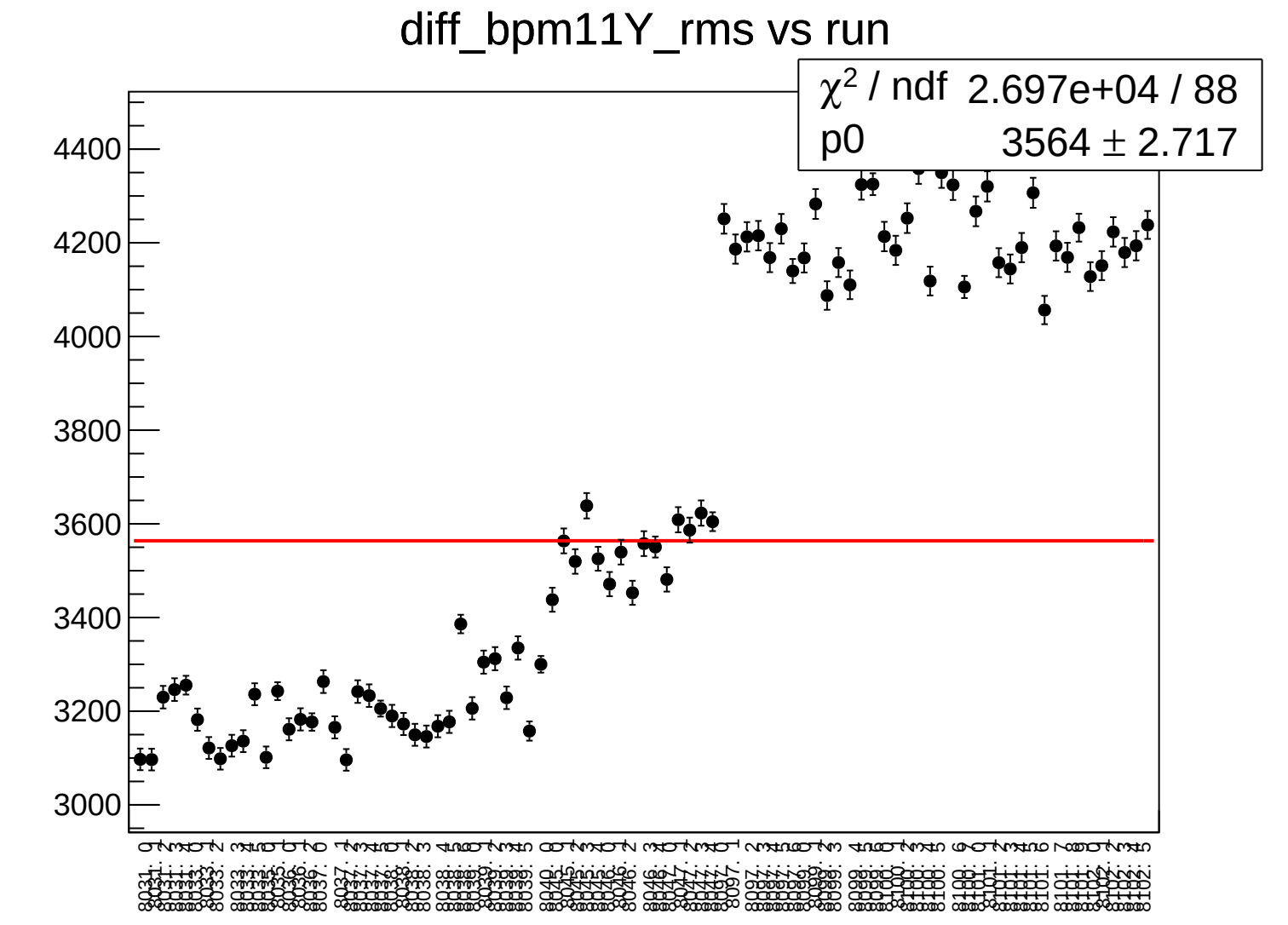

diff_bpm11X_mean vs run
χ² / ndf 95.98 / 88
p0 6.236 ± 16.78
pull
Entries 89
Mean −702.3
Std Dev 0

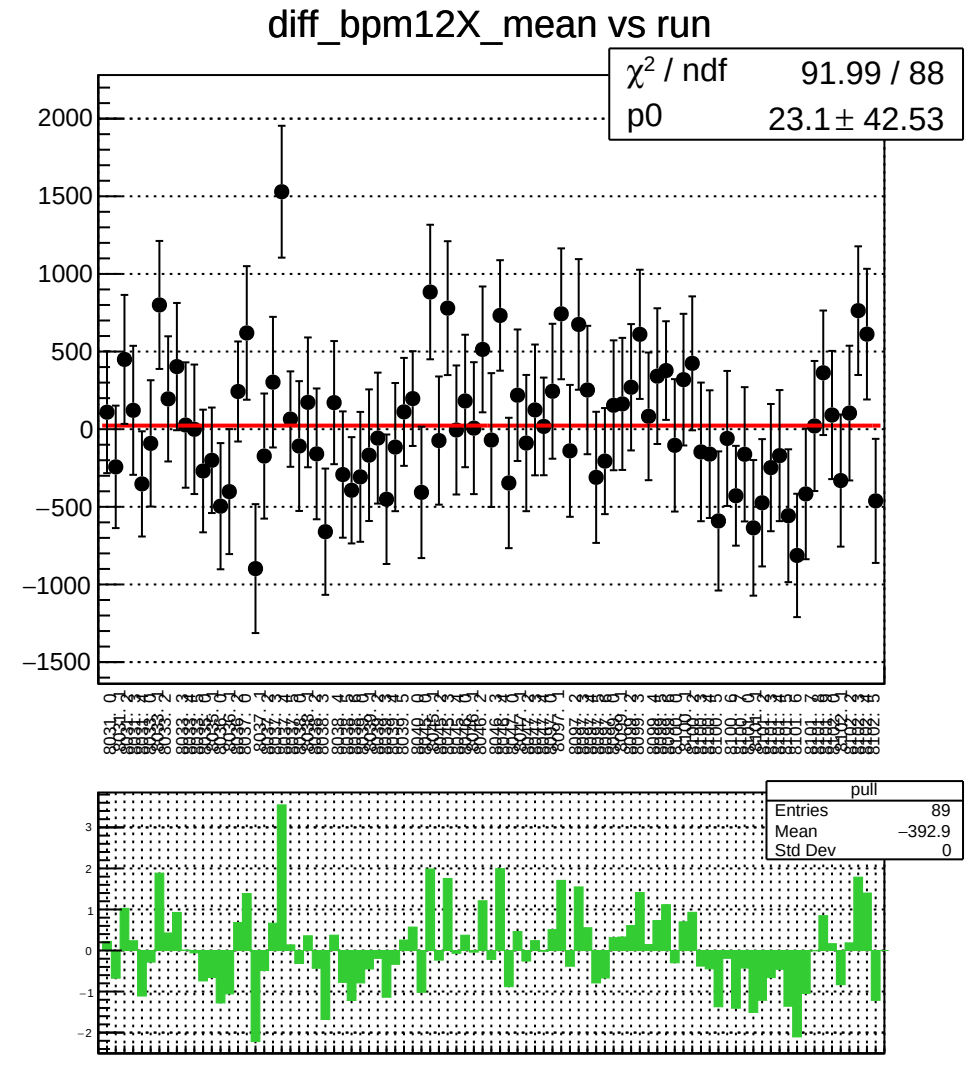

pull1D
Entries 89
Mean 0.002324
Std Dev 1.038

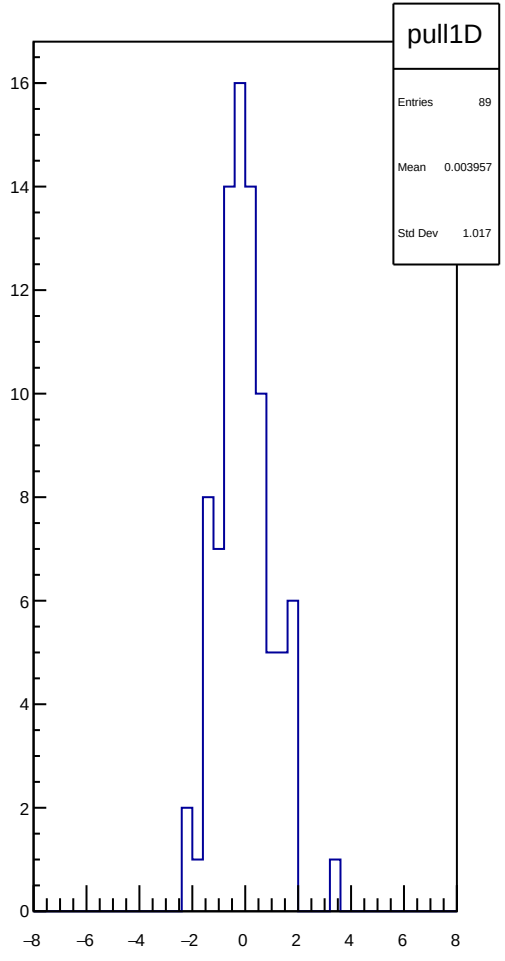

diff_bpm11X_rms vs run
χ² / ndf 1783 / 88
p0 1.567e+04 ± 11.86
17000
16500
16000
15500
15000
14500

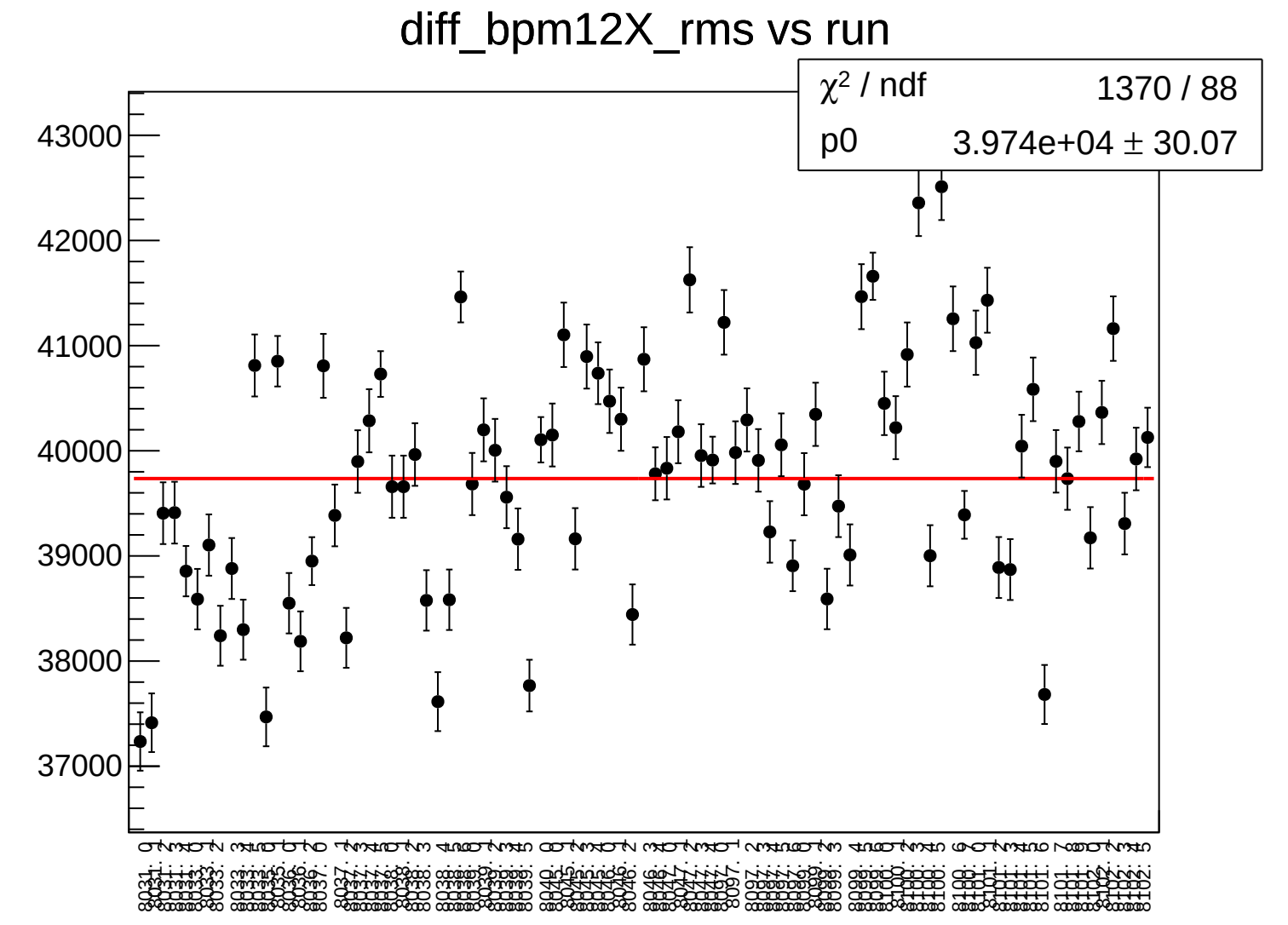

diff_bpm11Y_mean vs run
$\chi^2$ / ndf 110.1 / 88
p0 6.409 ± 3.843
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean 880.7
Std Dev 0
2
1
0
−1
−2
−3

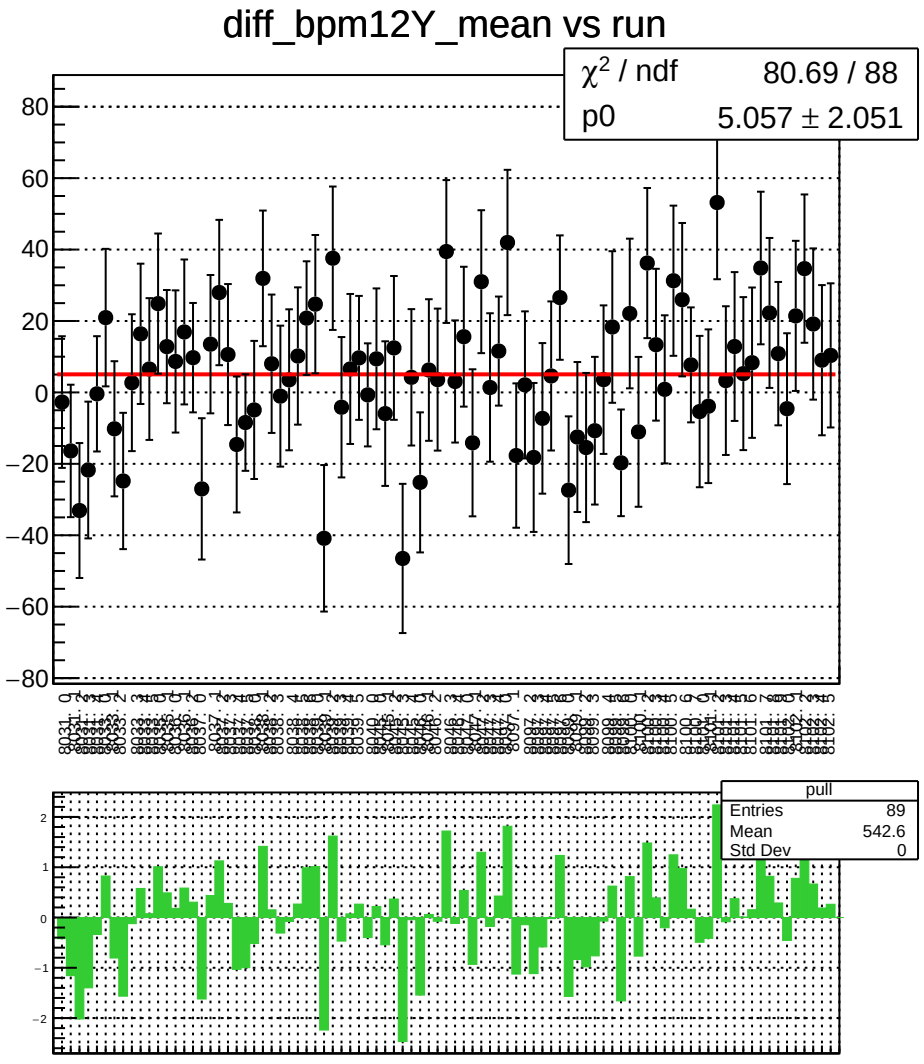

pull1D
Entries 89
Mean 0.006464
Std Dev 1.112
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

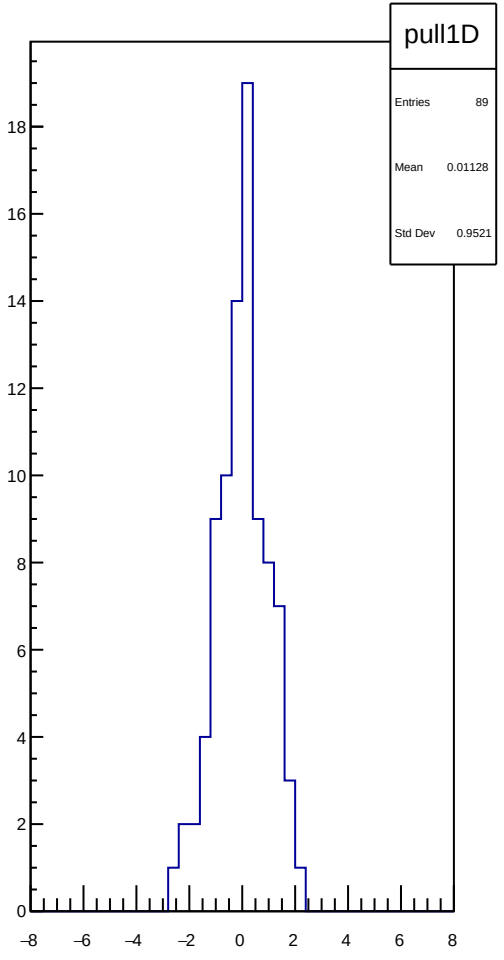

diff_bpm11Y_rms vs run
χ² / ndf 2.697e+04 / 88
p0 3564 ± 2.717
4400
4200
4000
3800
3600
3400
3200
3000

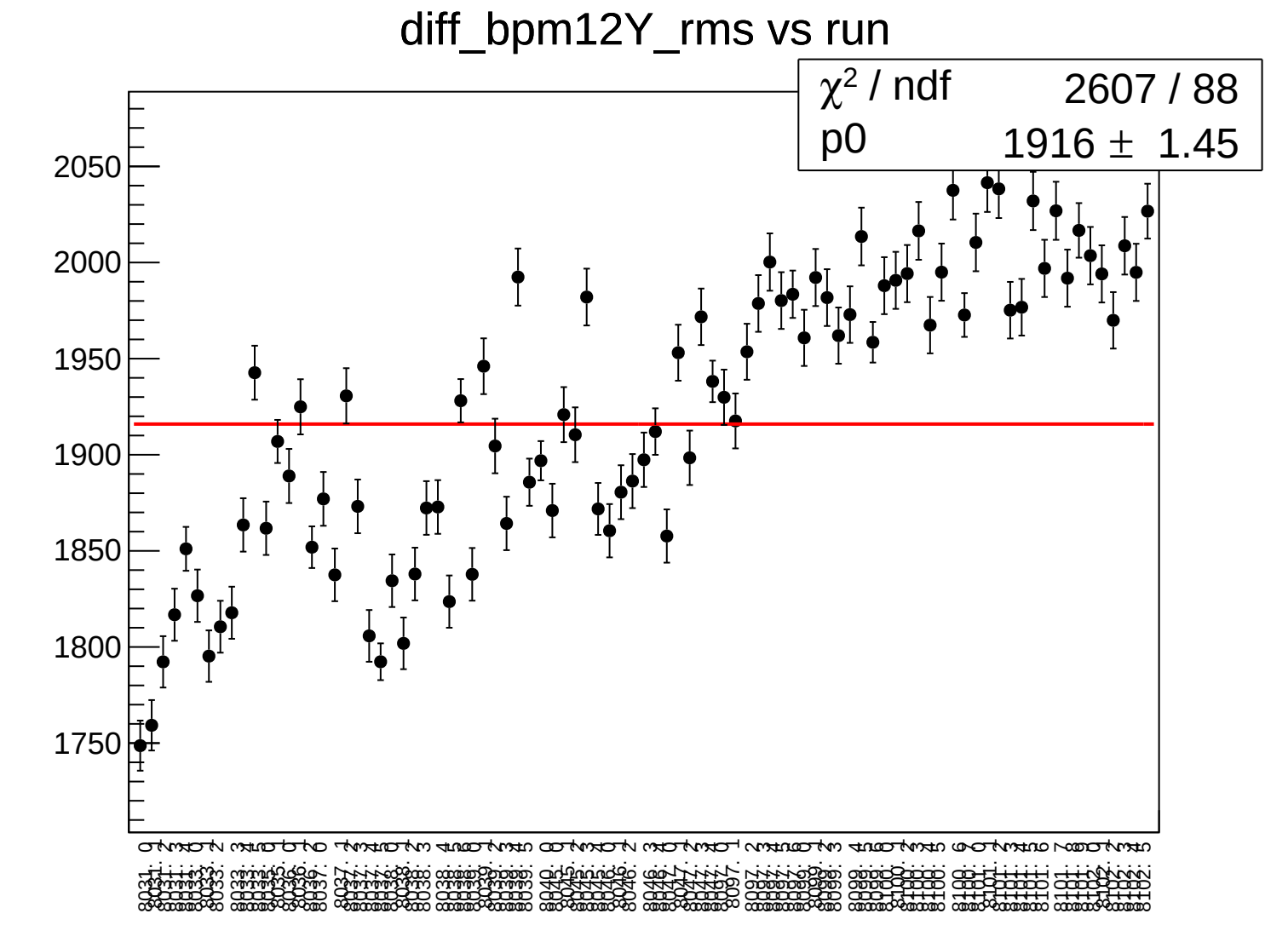

diff_bpm12X_mean vs run
χ² / ndf 91.99 / 88
p0 23.1 ± 42.53
2000
1500
1000
500
0
−500
−1000
−1500
pull
Entries 89
Mean −392.9
Std Dev 0
3
2
1
0
−1
−2

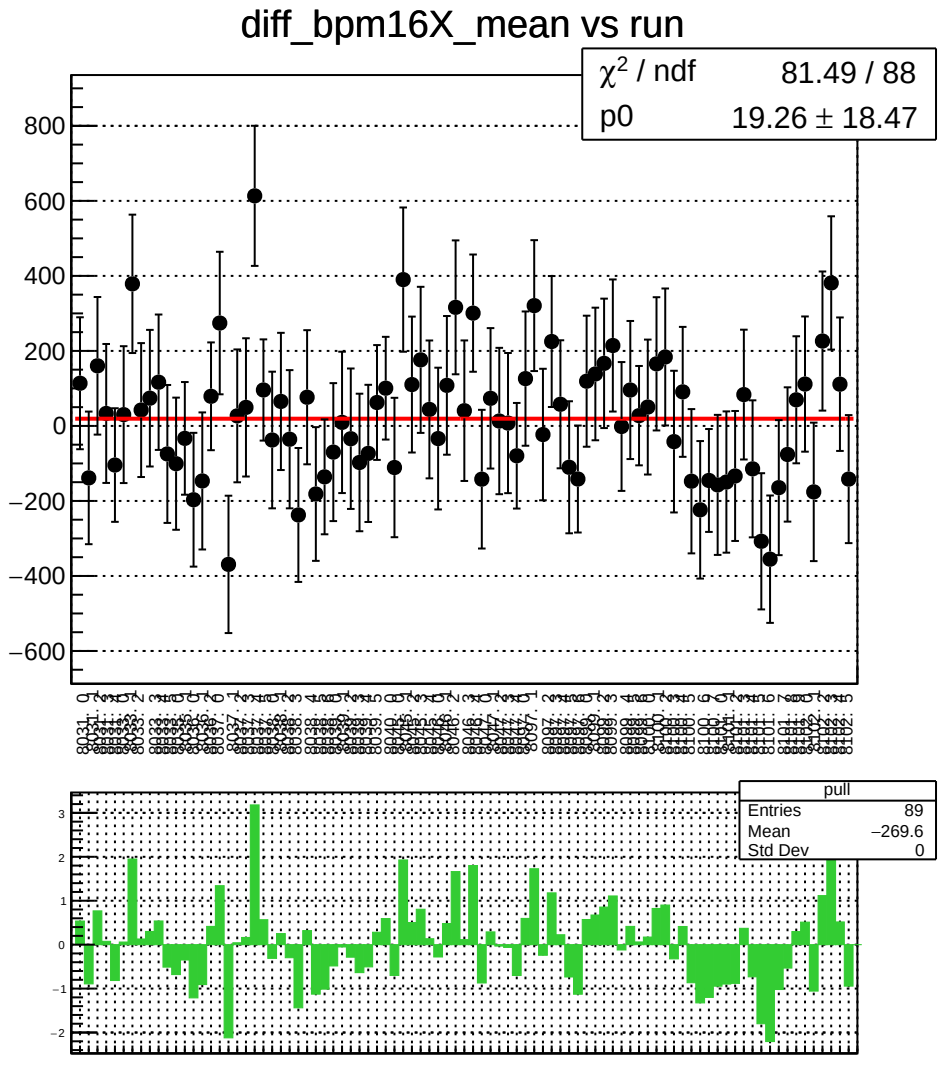

pull1D
Entries 89
Mean 0.003957
Std Dev 1.017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

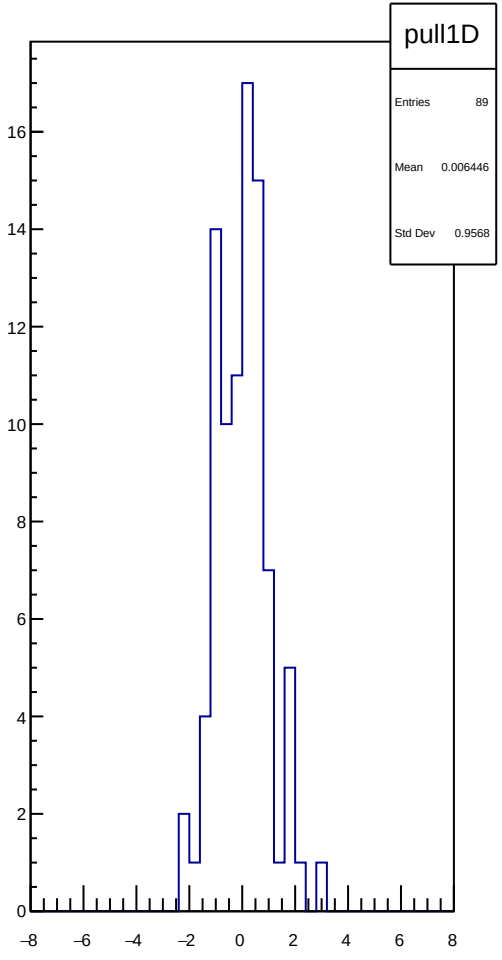

diff_bpm12X_rms vs run
χ² / ndf 1370 / 88
p0 3.974e+04 ± 30.07
43000
42000
41000
40000
39000
38000
37000

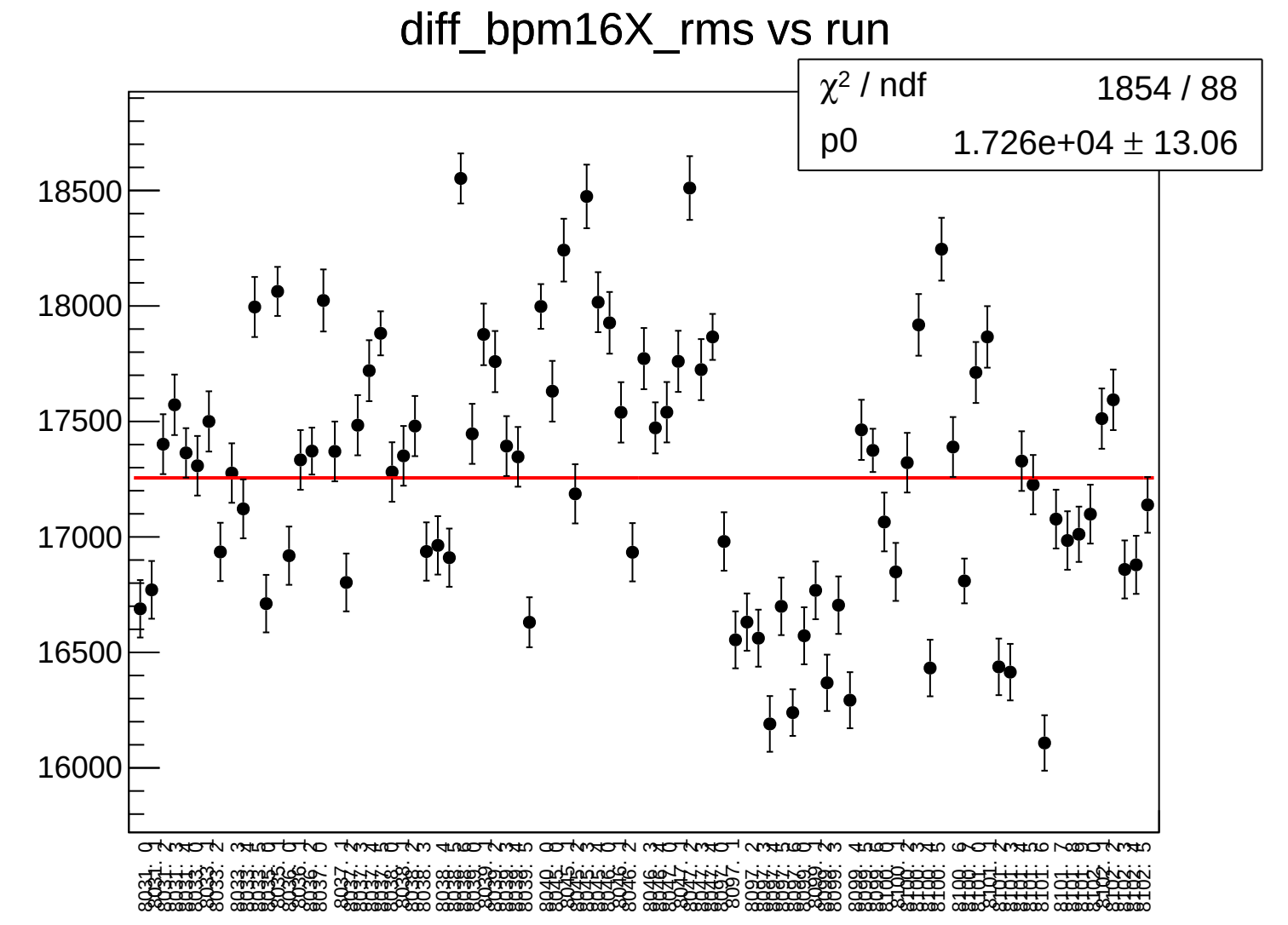

diff_bpm12Y_mean vs run
$\chi^2$ / ndf 80.69 / 88
p0 5.057 ± 2.051
pull
Entries 89
Mean 542.6
Std Dev 0

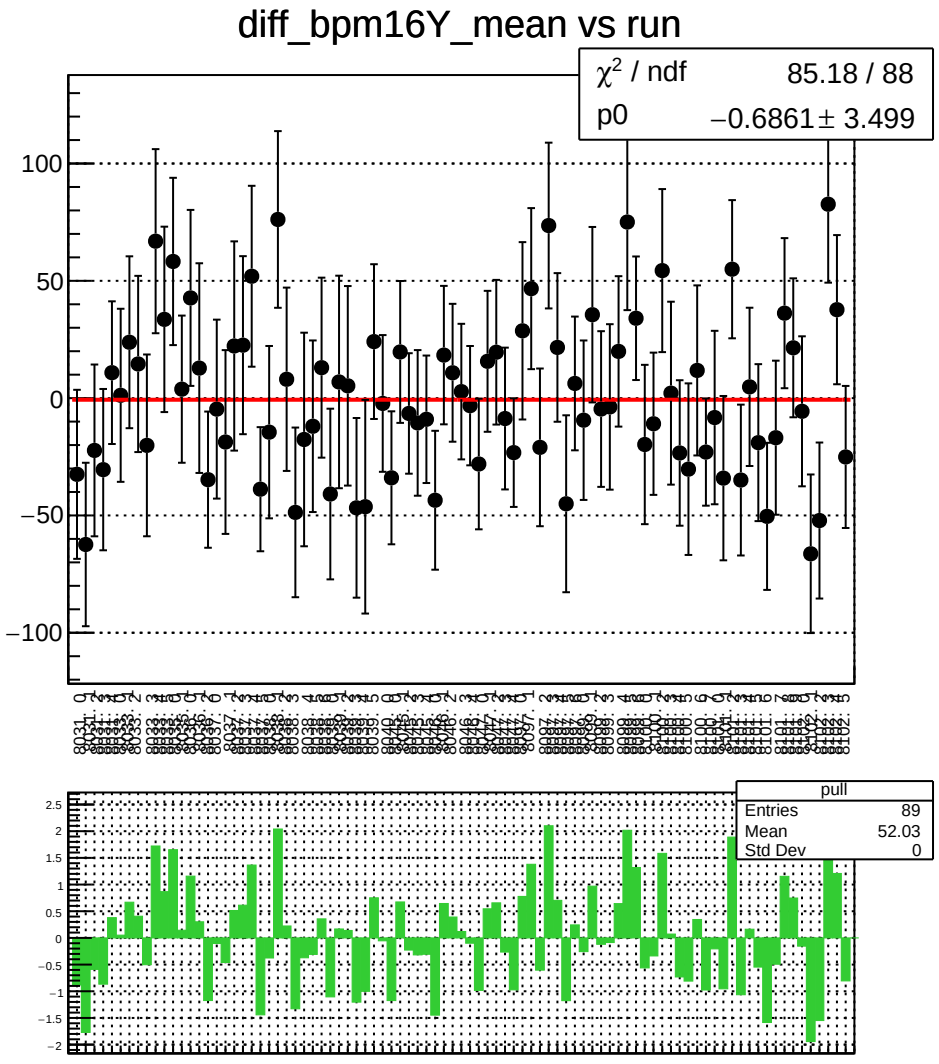

pull1D
Entries 89
Mean 0.01128
Std Dev 0.9521

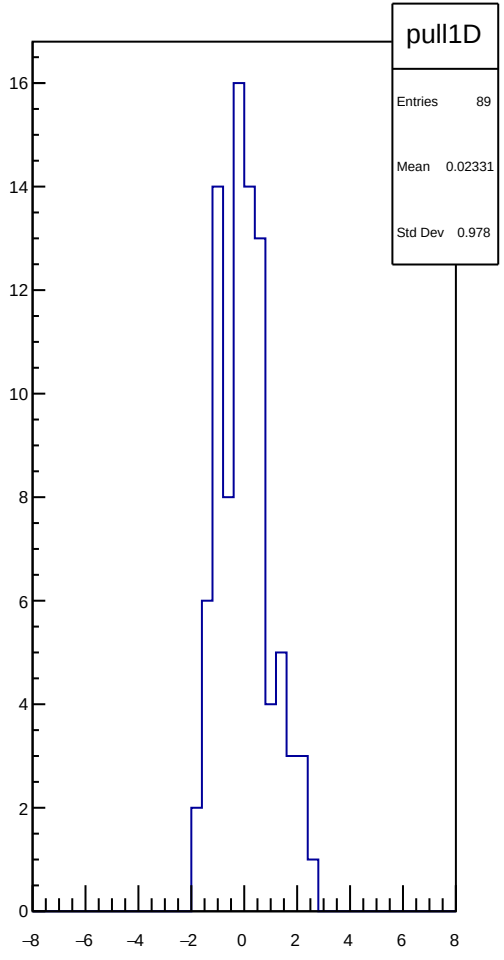

diff_bpm12Y_rms vs run
χ² / ndf 2607 / 88
p0 1916 ± 1.45
2050
2000
1950
1900
1850
1800
1750

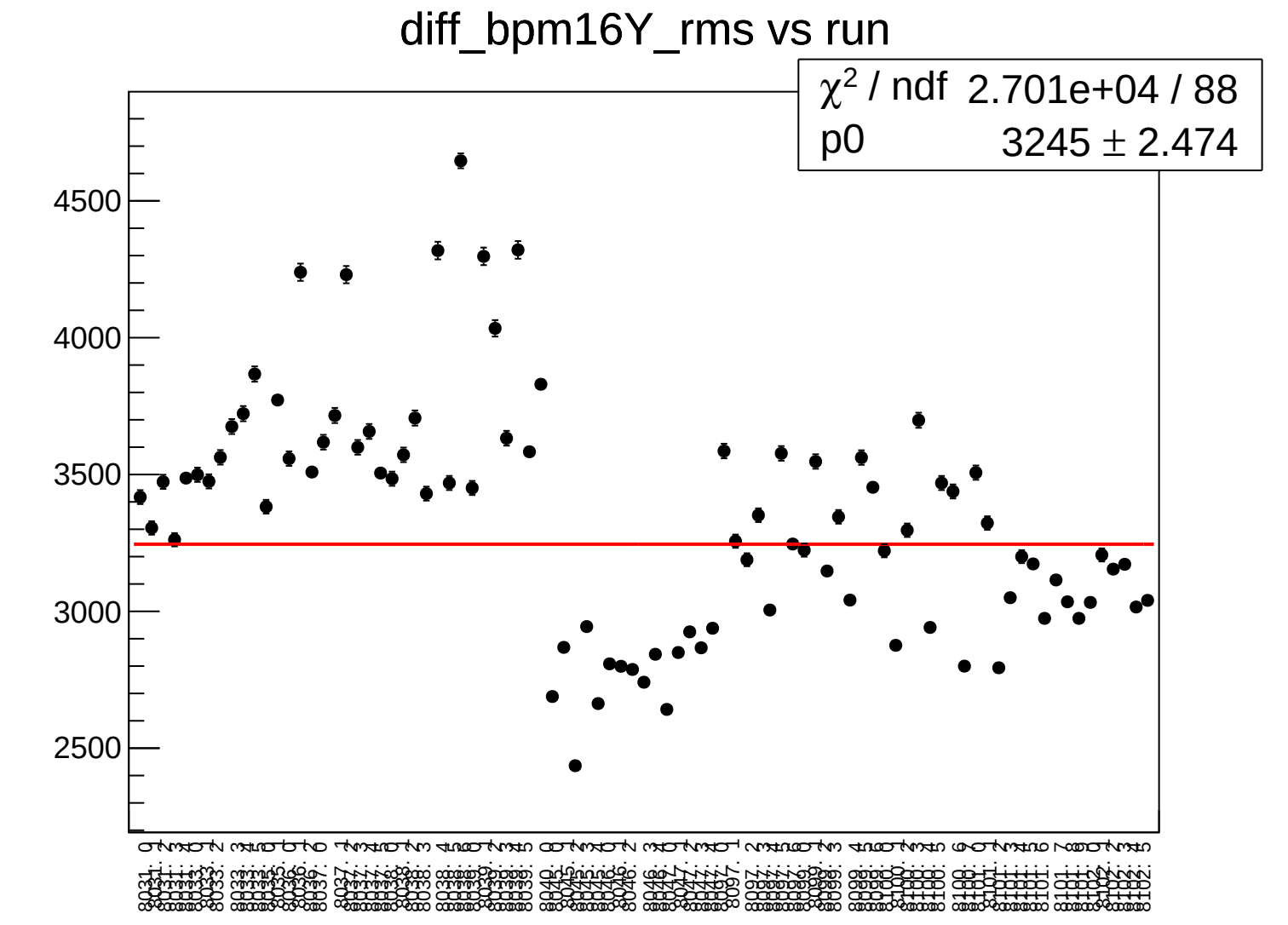

diff_bpm16X_mean vs run
$\chi^2$ / ndf 81.49 / 88
p0 19.26 ± 18.47
pull
Entries 89
Mean −269.6
Std Dev 0

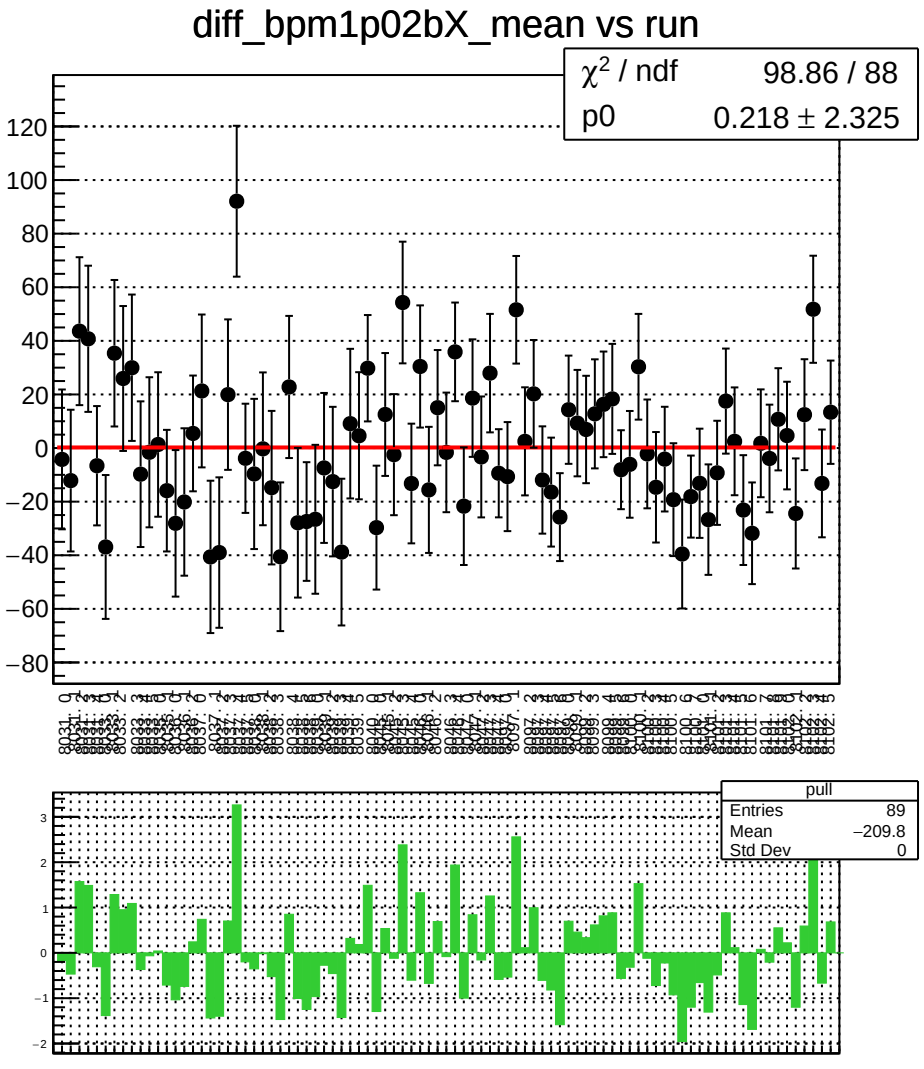

pull1D
Entries 89
Mean 0.006446
Std Dev 0.9568

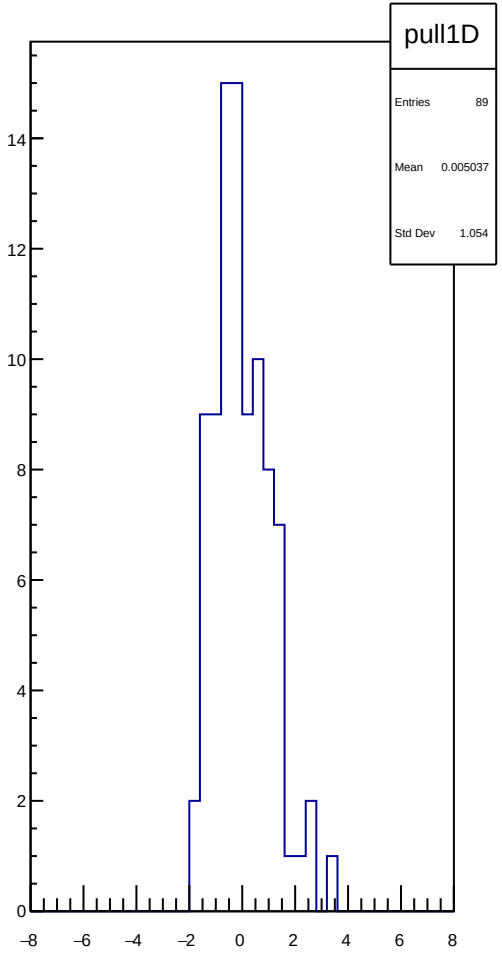

diff_bpm16X_rms vs run
χ² / ndf 1854 / 88
p0 1.726e+04 ± 13.06
18500
18000
17500
17000
16500
16000

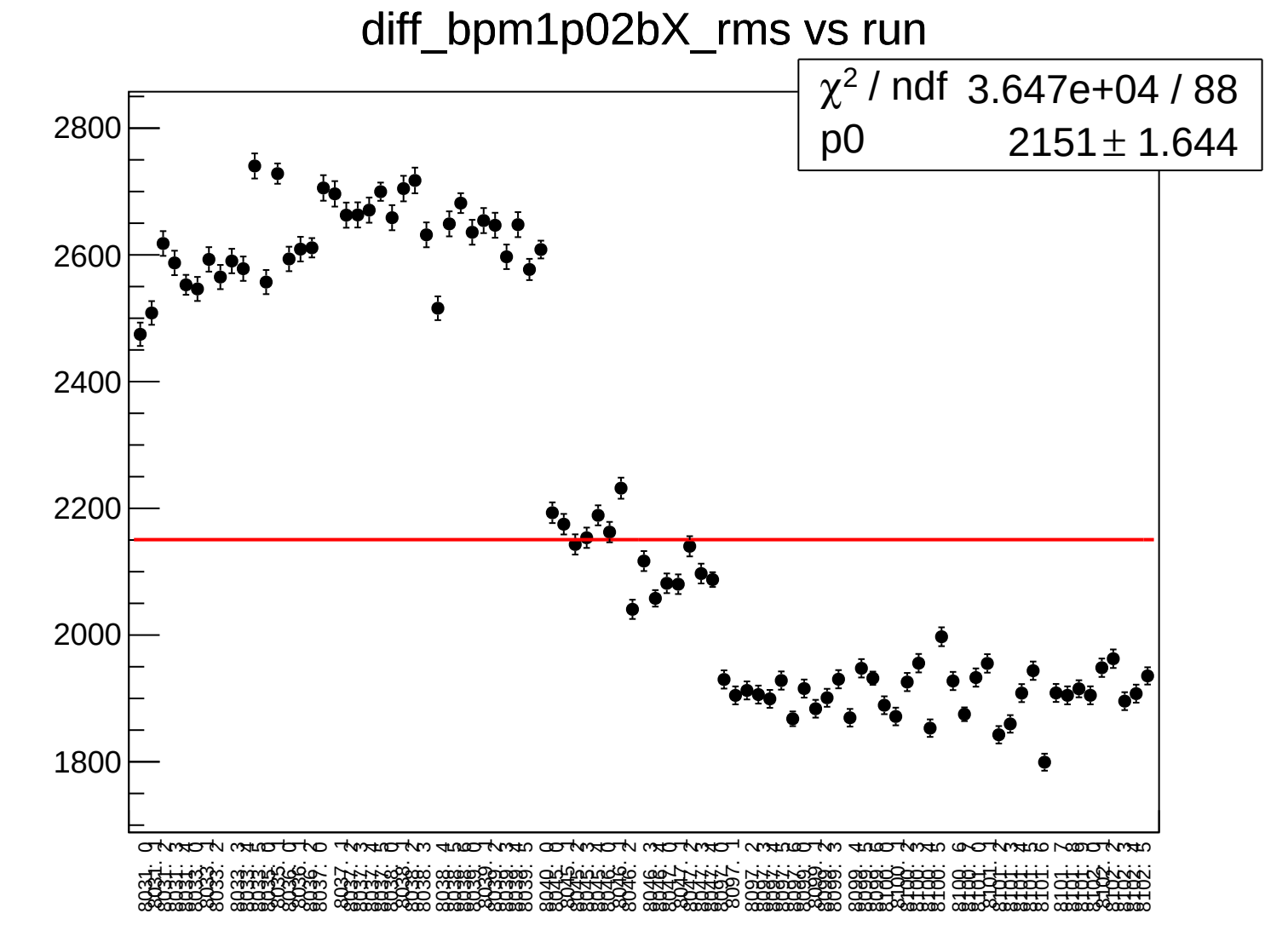

diff_bpm16Y_mean vs run
χ² / ndf 85.18 / 88
p0 −0.6861 ± 3.499
100
50
0
−50
−100
pull
Entries 89
Mean 52.03
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

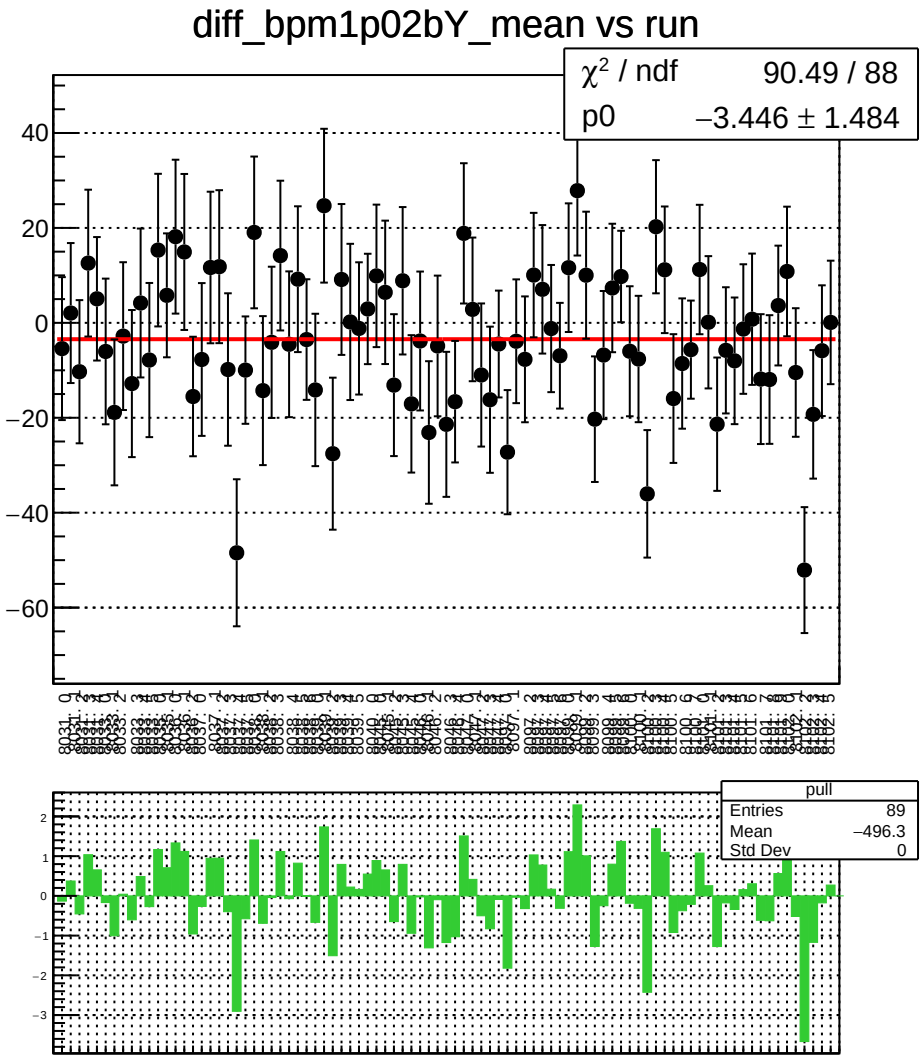

pull1D
Entries 89
Mean 0.02331
Std Dev 0.978
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

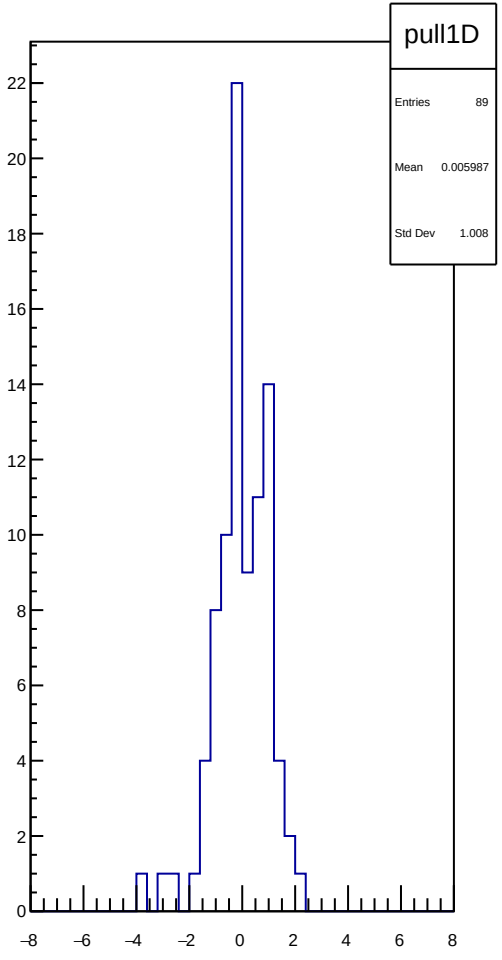

diff_bpm16Y_rms vs run
χ² / ndf 2.701e+04 / 88
p0 3245 ± 2.474
4500
4000
3500
3000
2500

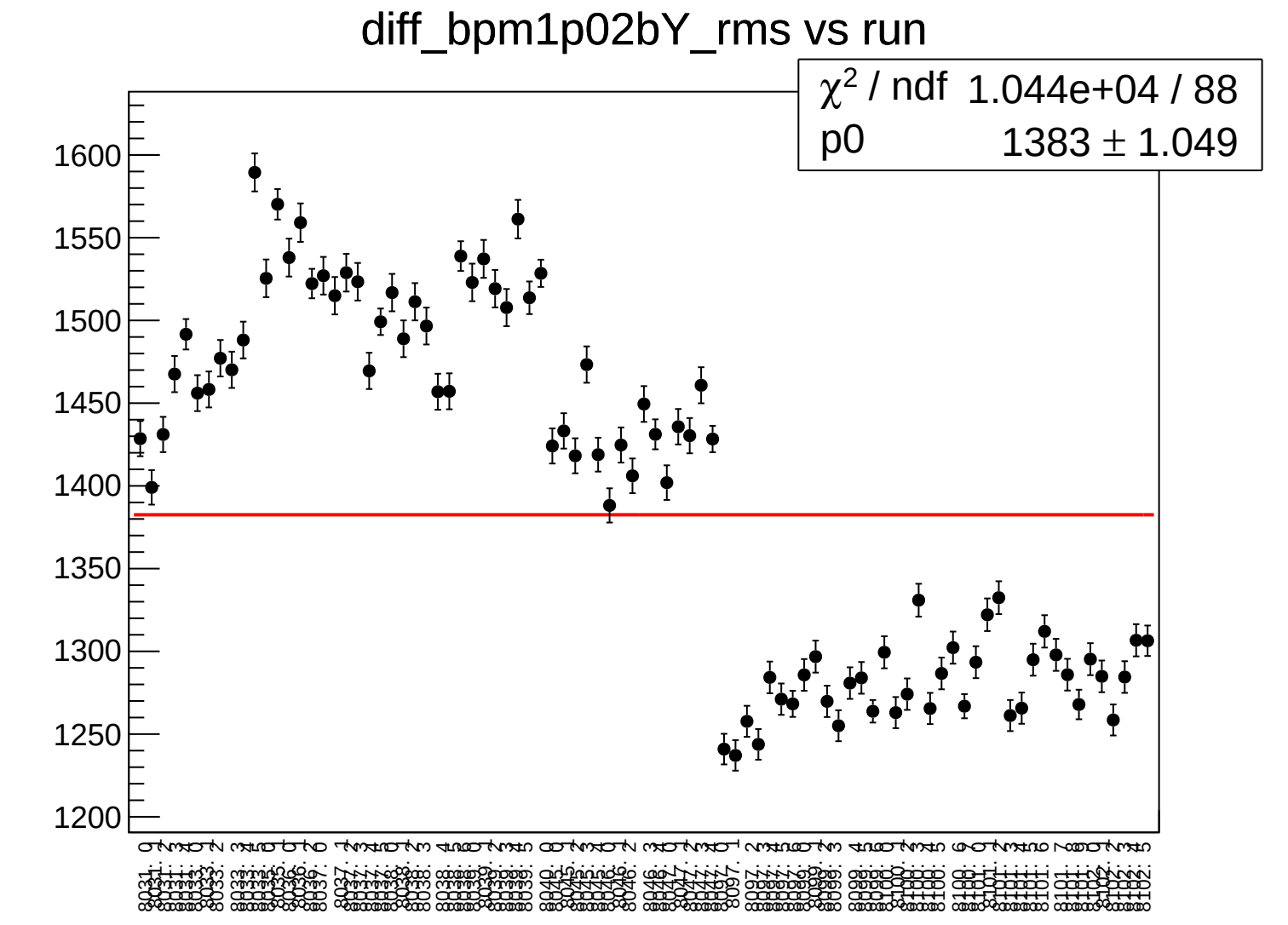

diff_bpm1p02bX_mean vs run
$\chi^2$ / ndf 98.86 / 88
p0 0.218 ± 2.325
pull
Entries 89
Mean −209.8
Std Dev 0

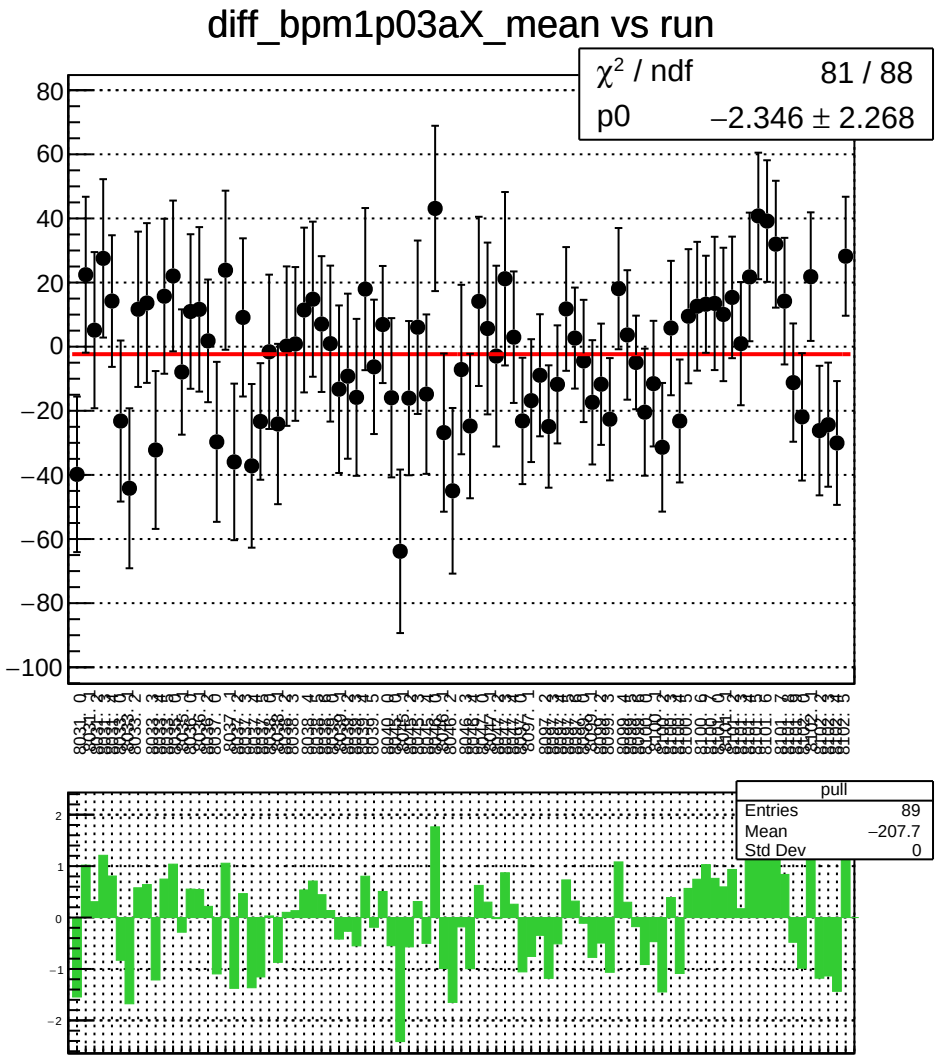

pull1D
Entries 89
Mean 0.005037
Std Dev 1.054

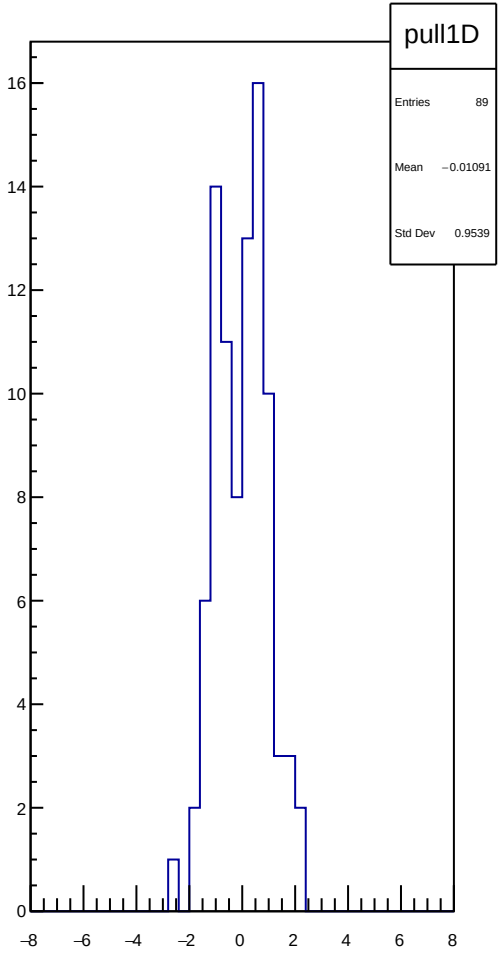

diff_bpm1p02bX_rms vs run
χ² / ndf 3.647e+04 / 88
p0 2151 ± 1.644
2800
2600
2400
2200
2000
1800

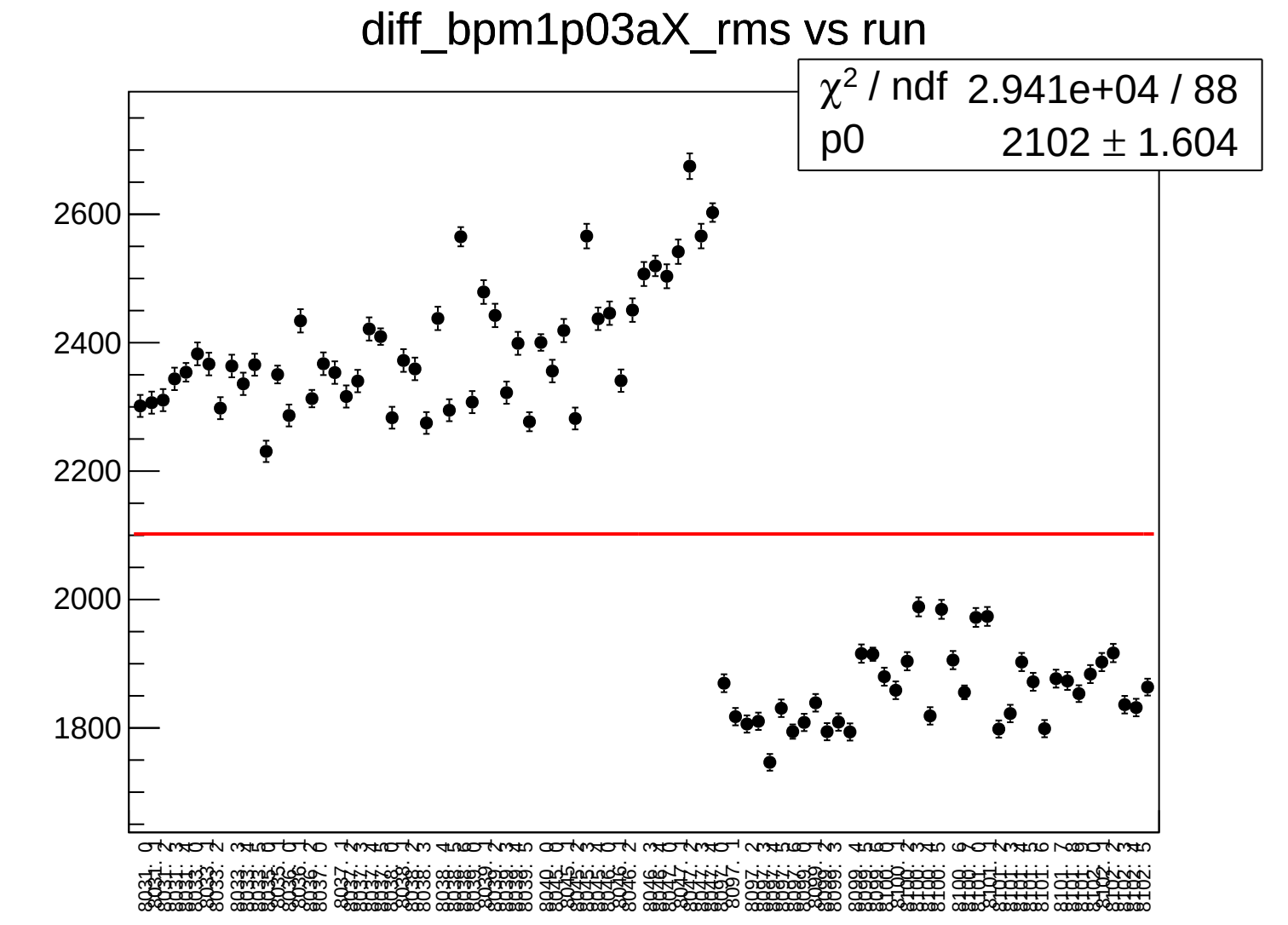

diff_bpm1p02bY_mean vs run
χ² / ndf 90.49 / 88
p0 −3.446 ± 1.484
40
20
0
−20
−40
−60
pull
Entries 89
Mean −496.3
Std Dev 0
2
1
0
−1
−2
−3

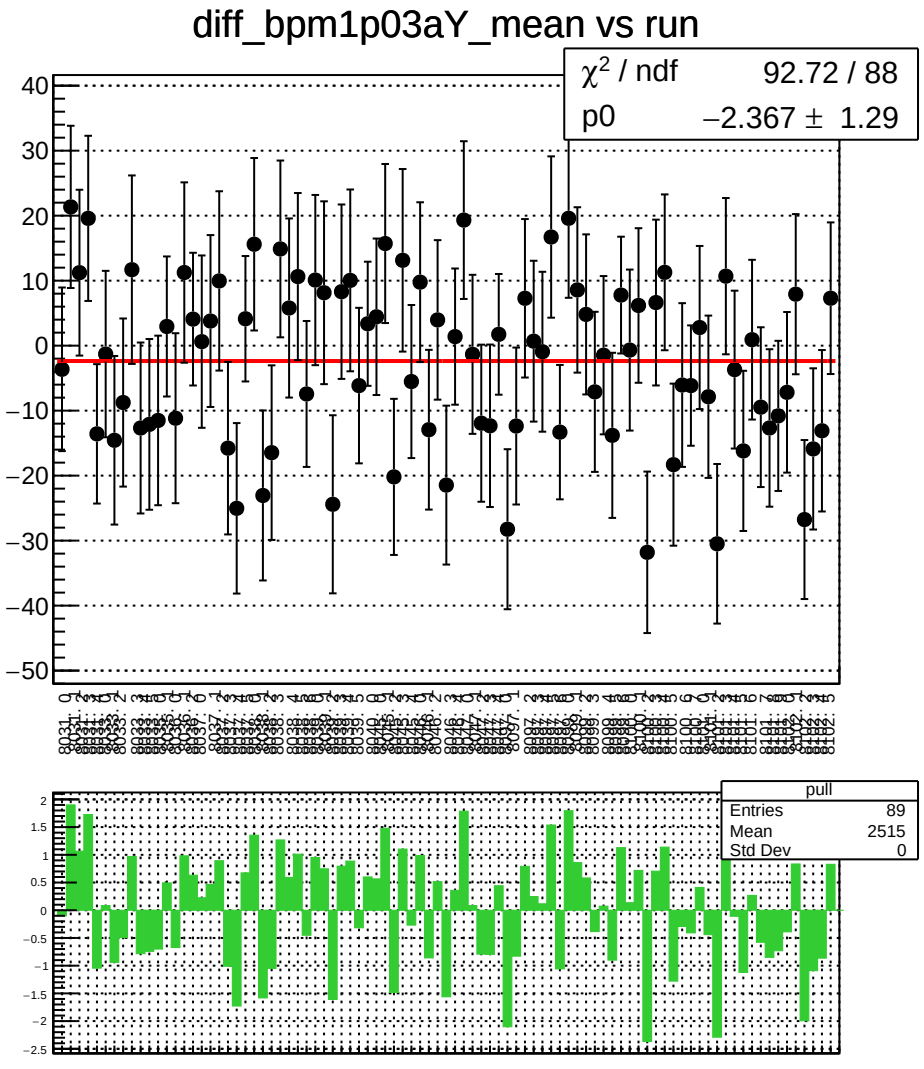

pull1D
Entries 89
Mean 0.005987
Std Dev 1.008
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

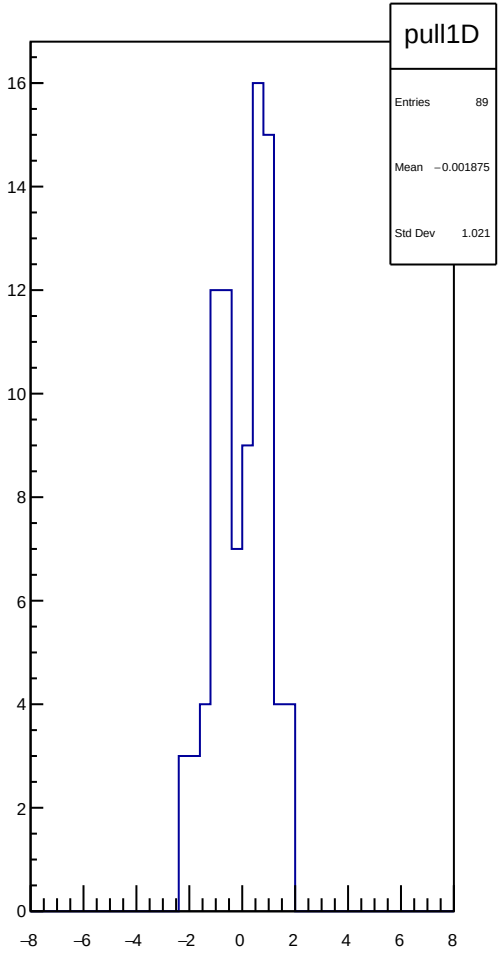

diff_bpm1p02bY_rms vs run
χ² / ndf 1.044e+04 / 88
p0 1383 ± 1.049
1600
1550
1500
1450
1400
1350
1300
1250
1200

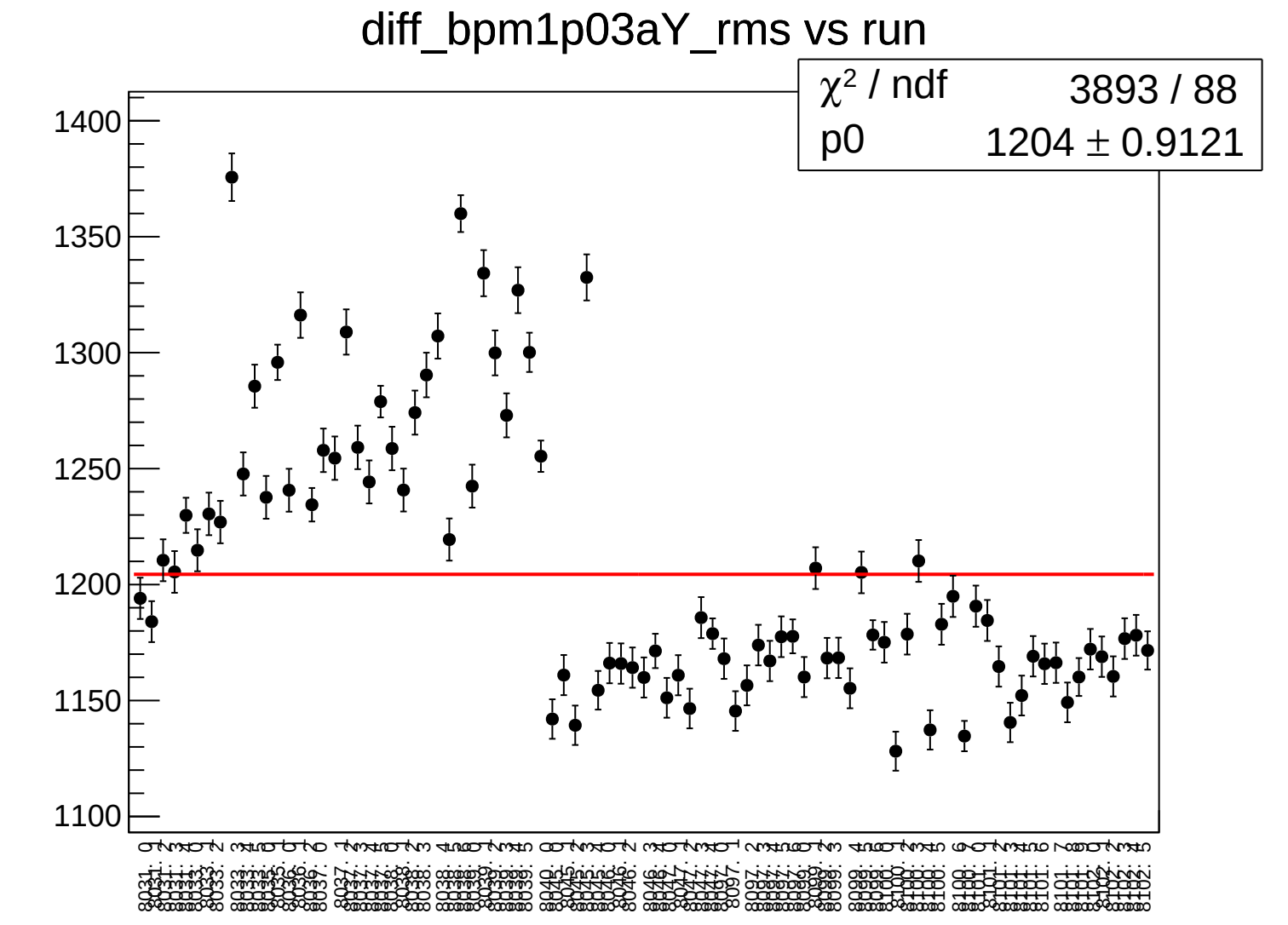

diff_bpm1p03aX_mean vs run
χ² / ndf 81 / 88
p0 −2.346 ± 2.268
pull
Entries 89
Mean −207.7
Std Dev 0

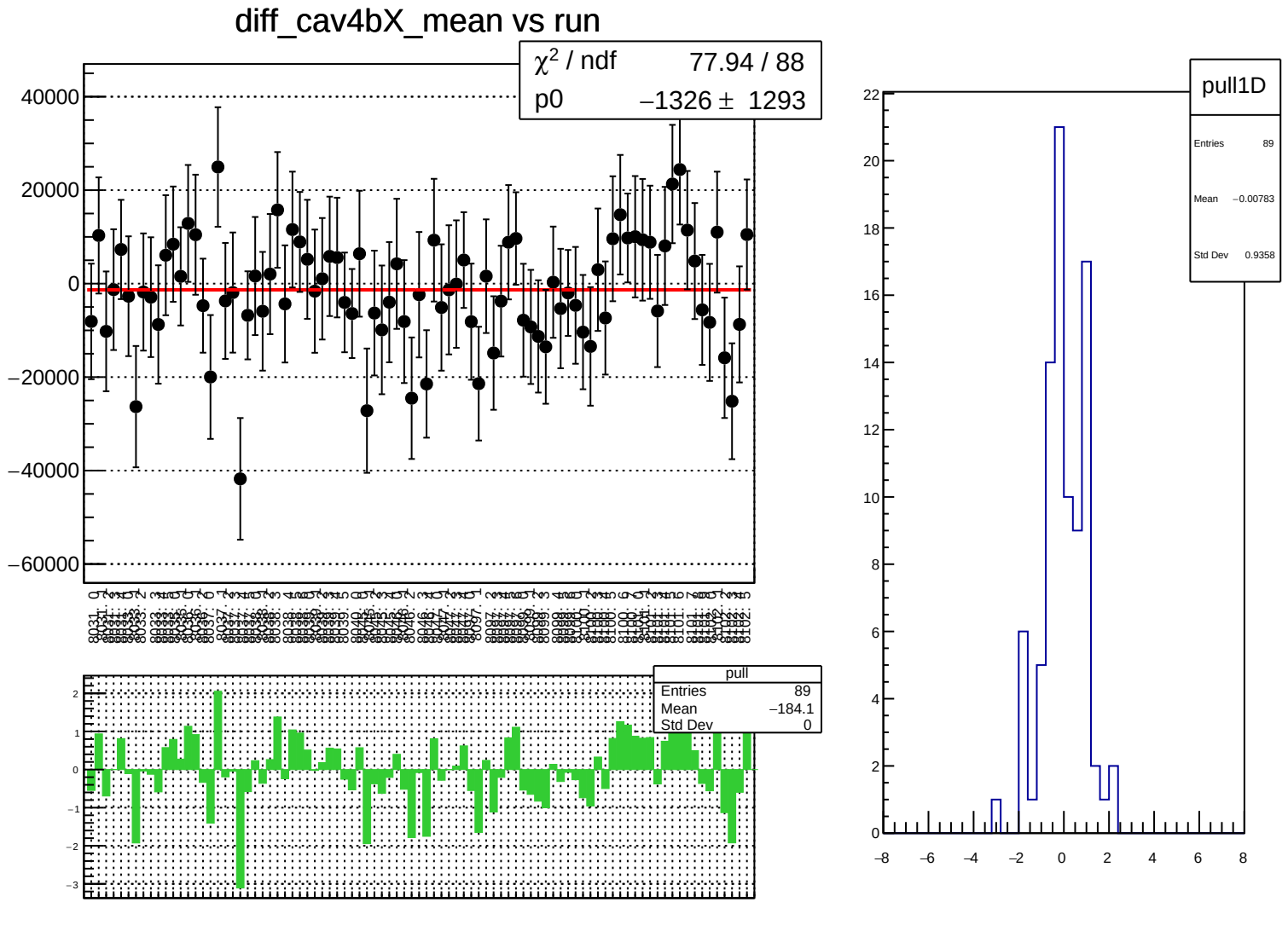

pull1D
Entries 89
Mean −0.01091
Std Dev 0.9539

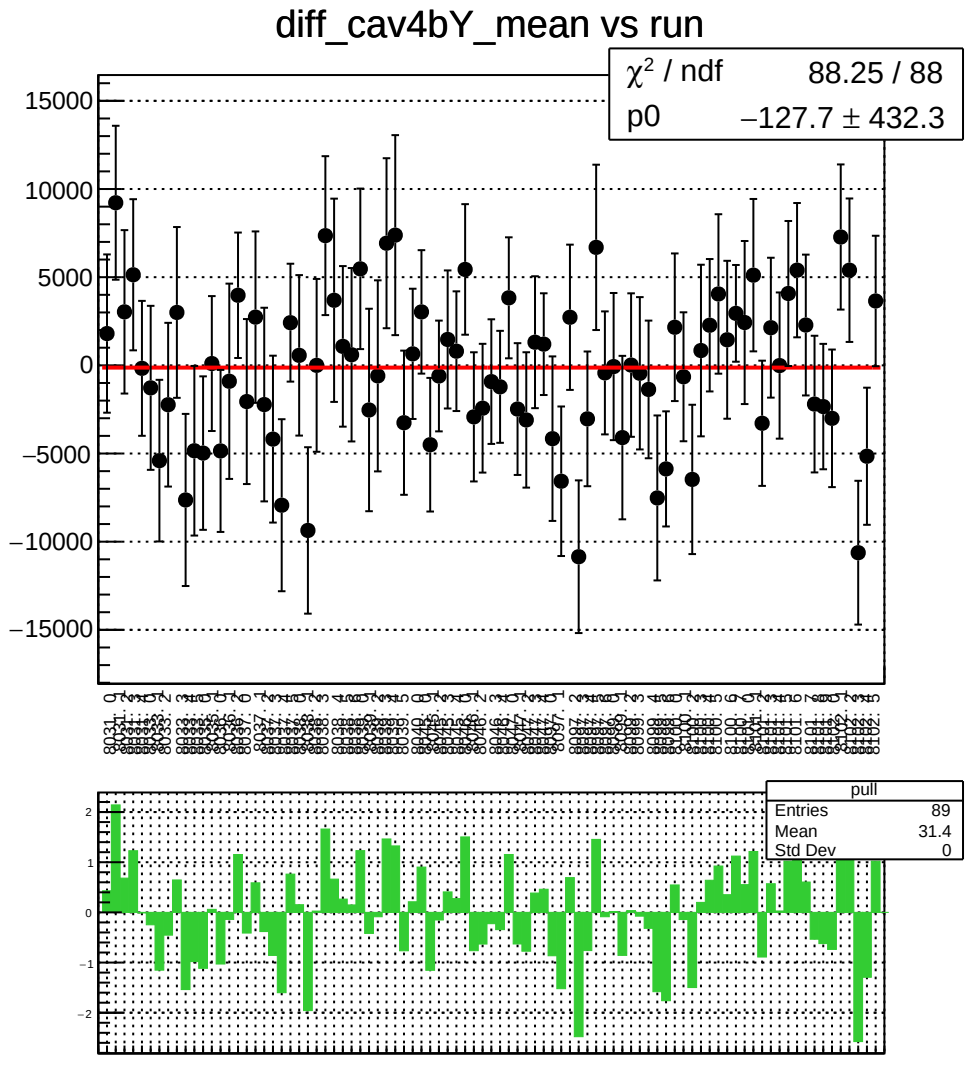

diff_bpm1p03aX_rms vs run
χ² / ndf 2.941e+04 / 88
p0 2102 ± 1.604
2600
2400
2200
2000
1800

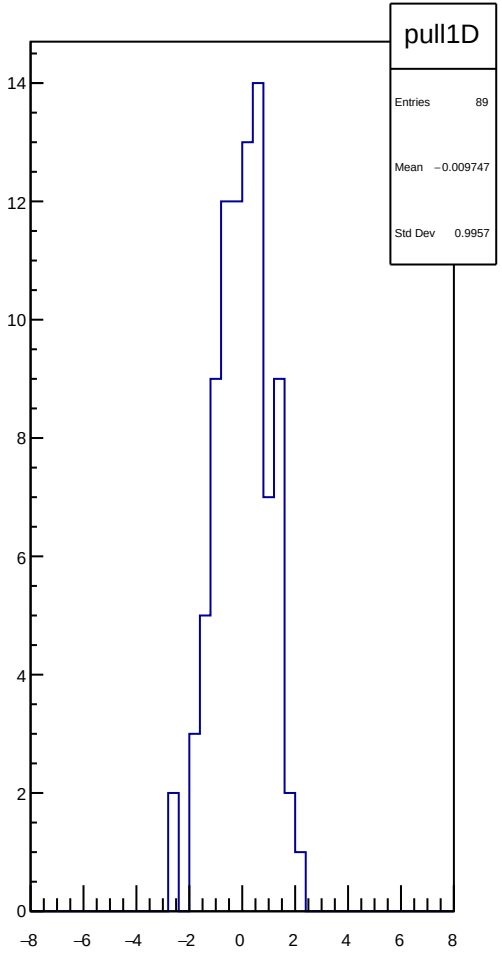

diff_bpm1p03aY_mean vs run
$\chi^2$ / ndf 92.72 / 88
p0 −2.367 ± 1.29
pull
Entries 89
Mean 2515
Std Dev 0

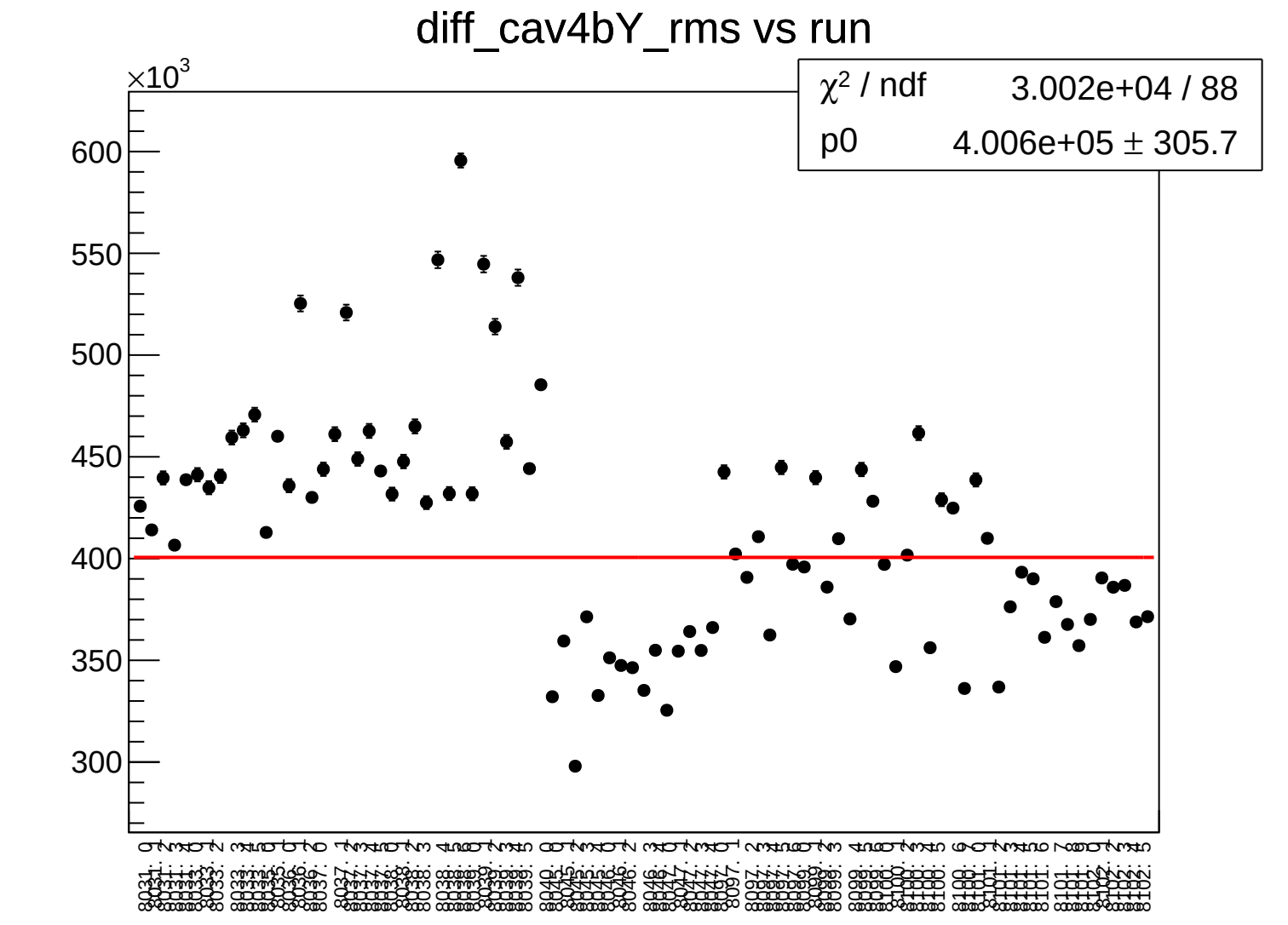

pull1D
Entries 89
Mean −0.001875
Std Dev 1.021

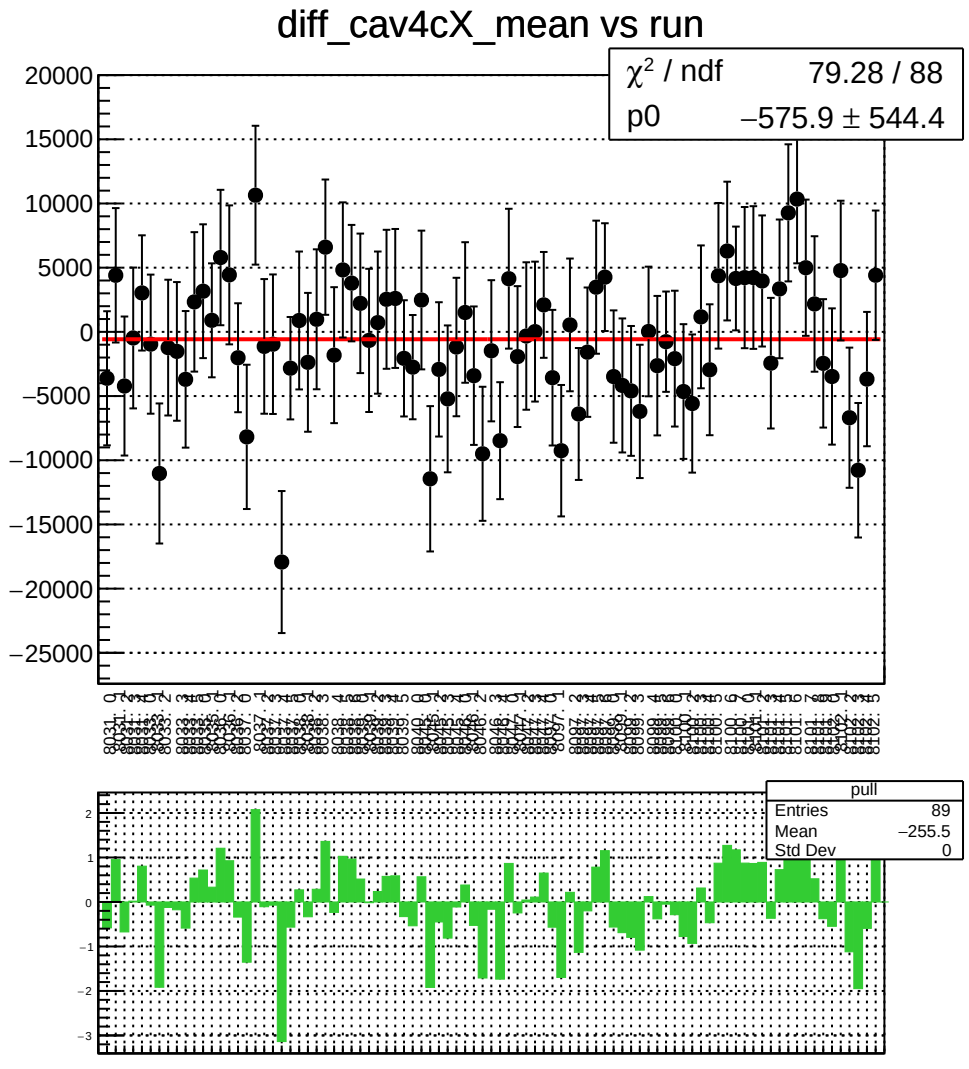

diff_bpm1p03aY_rms vs run
χ² / ndf 3893 / 88
p0 1204 ± 0.9121
1400
1350
1300
1250
1200
1150
1100

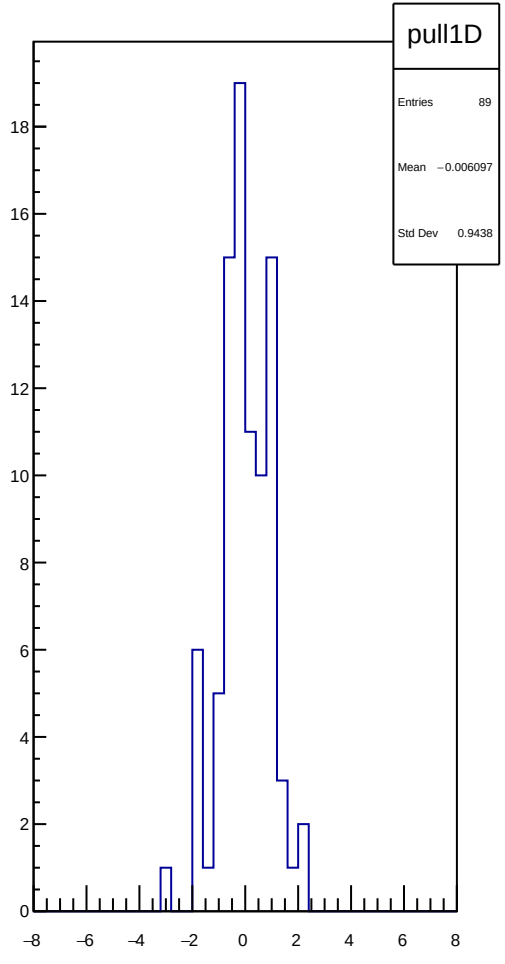

diff_cav4bX_mean vs run
χ² / ndf 77.94 / 88
p0 −1326 ± 1293
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −184.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.00783
Std Dev 0.9358
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

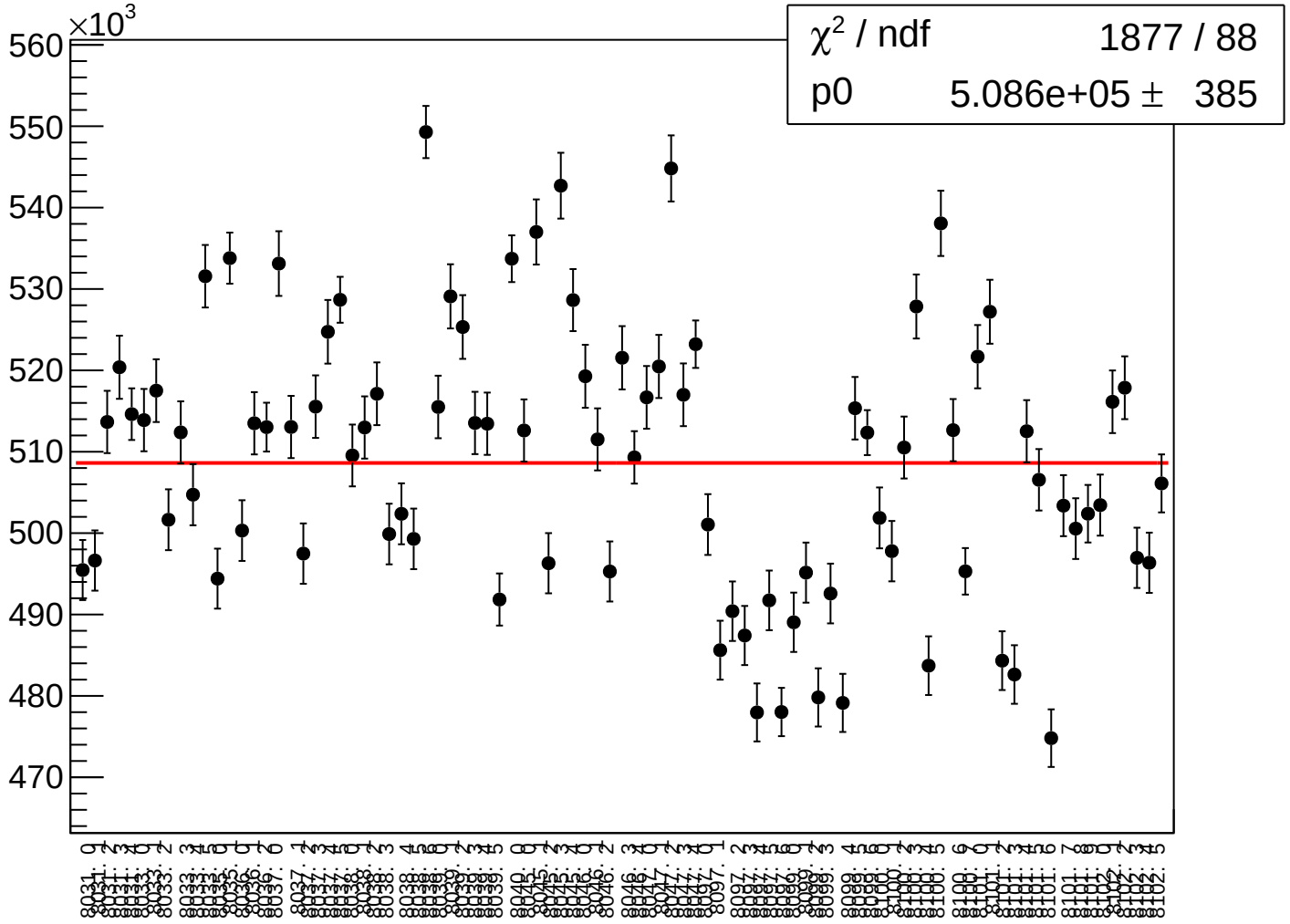

diff_cav4bY_mean vs run
χ² / ndf 88.25 / 88
p0 −127.7 ± 432.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 31.4
Std Dev 0
2
1
0
−1
−2

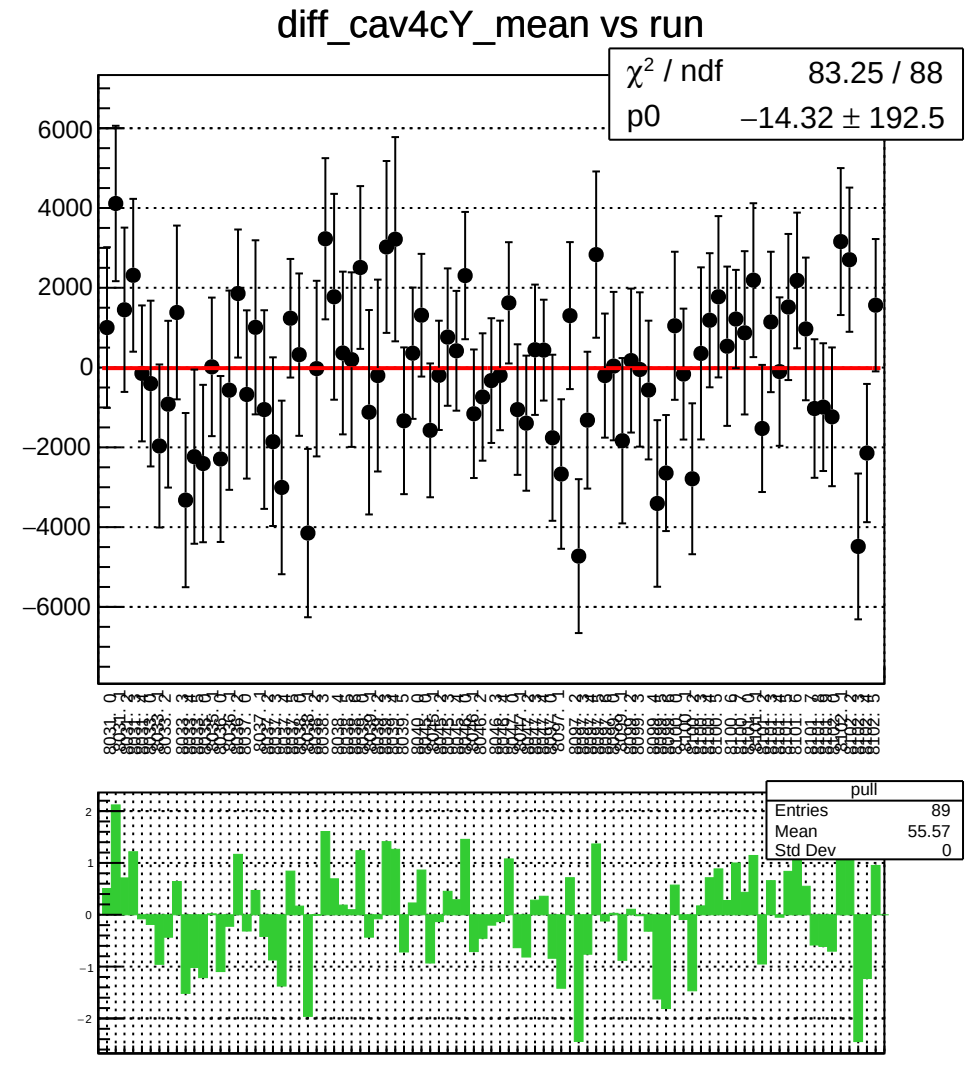

pull1D
Entries 89
Mean −0.009747
Std Dev 0.9957
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

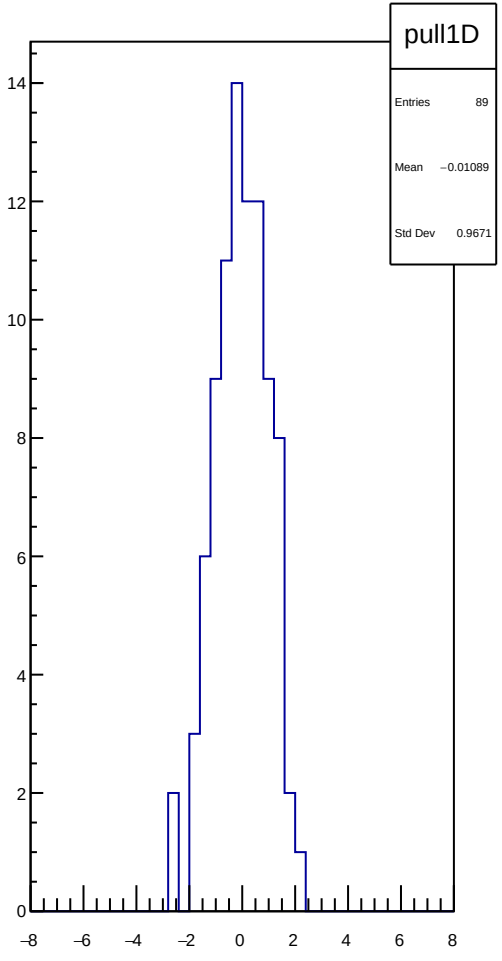

diff_cav4bY_rms vs run
×10^3
χ² / ndf 3.002e+04 / 88
p0 4.006e+05 ± 305.7
600
550
500
450
400
350
300

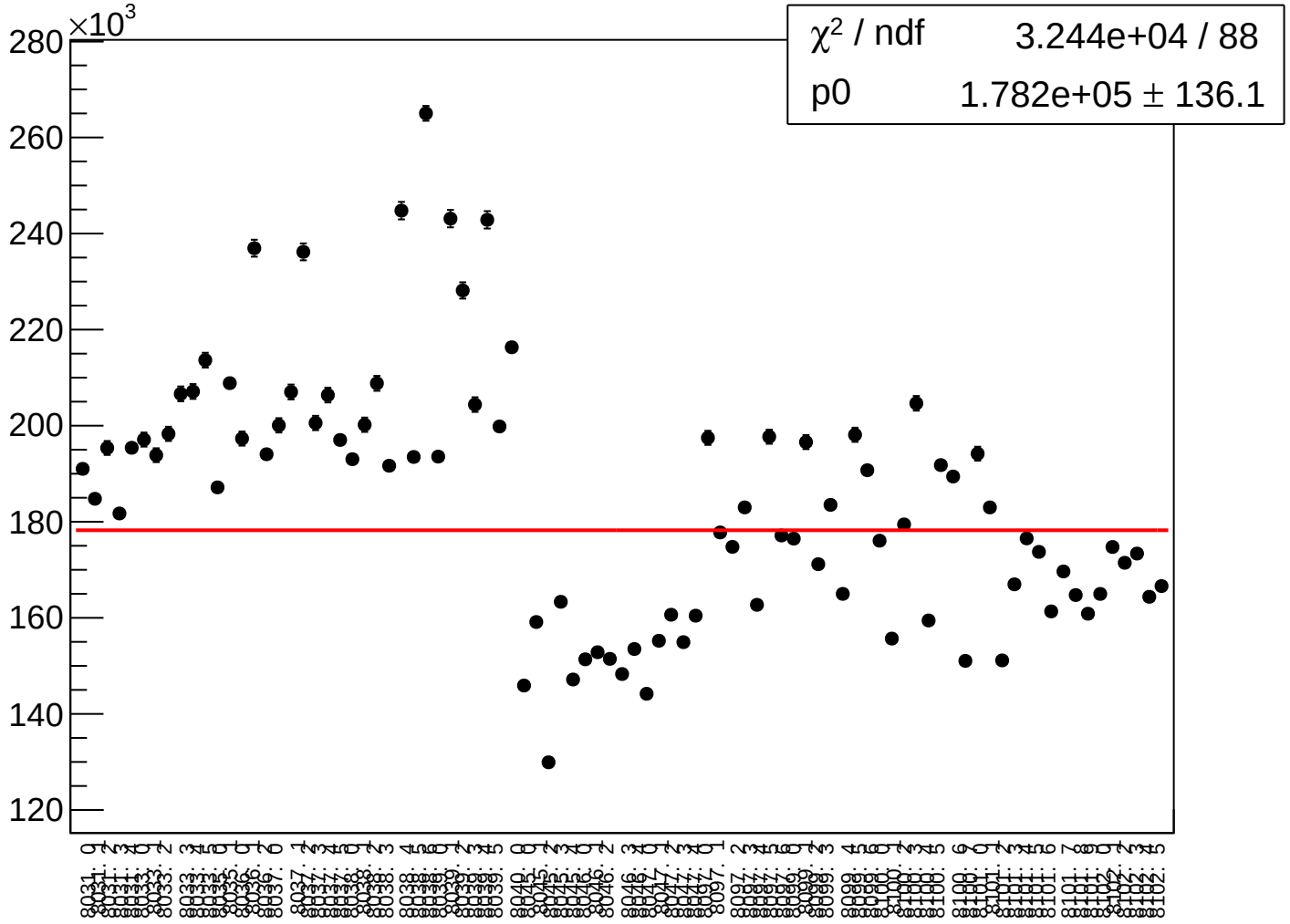

diff_cav4cX_mean vs run
χ² / ndf 79.28 / 88
p0 −575.9 ± 544.4
pull
Entries 89
Mean −255.5
Std Dev 0

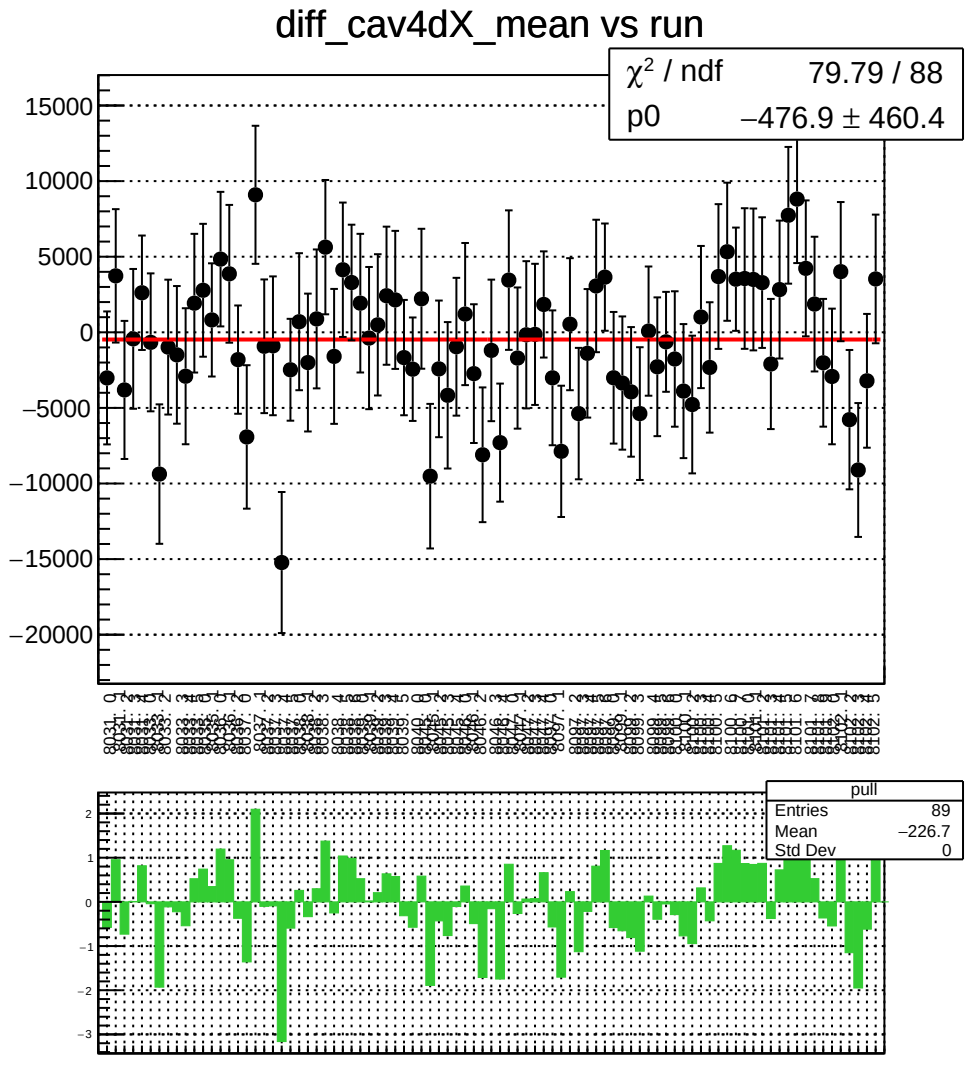

pull1D
Entries 89
Mean −0.006097
Std Dev 0.9438

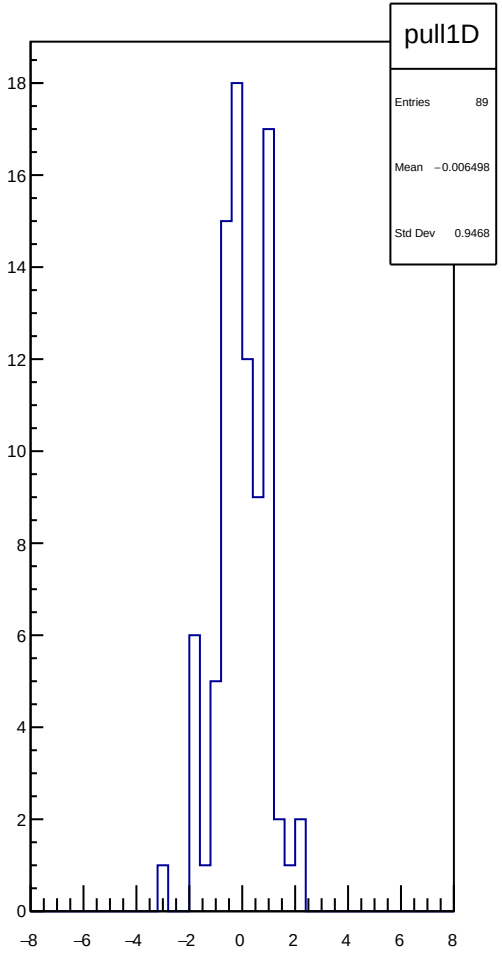

diff_cav4cX_rms vs run
×10^3
560
550
540
530
520
510
500
490
480
470
χ² / ndf 1877 / 88
p0 5.086e+05 ± 385

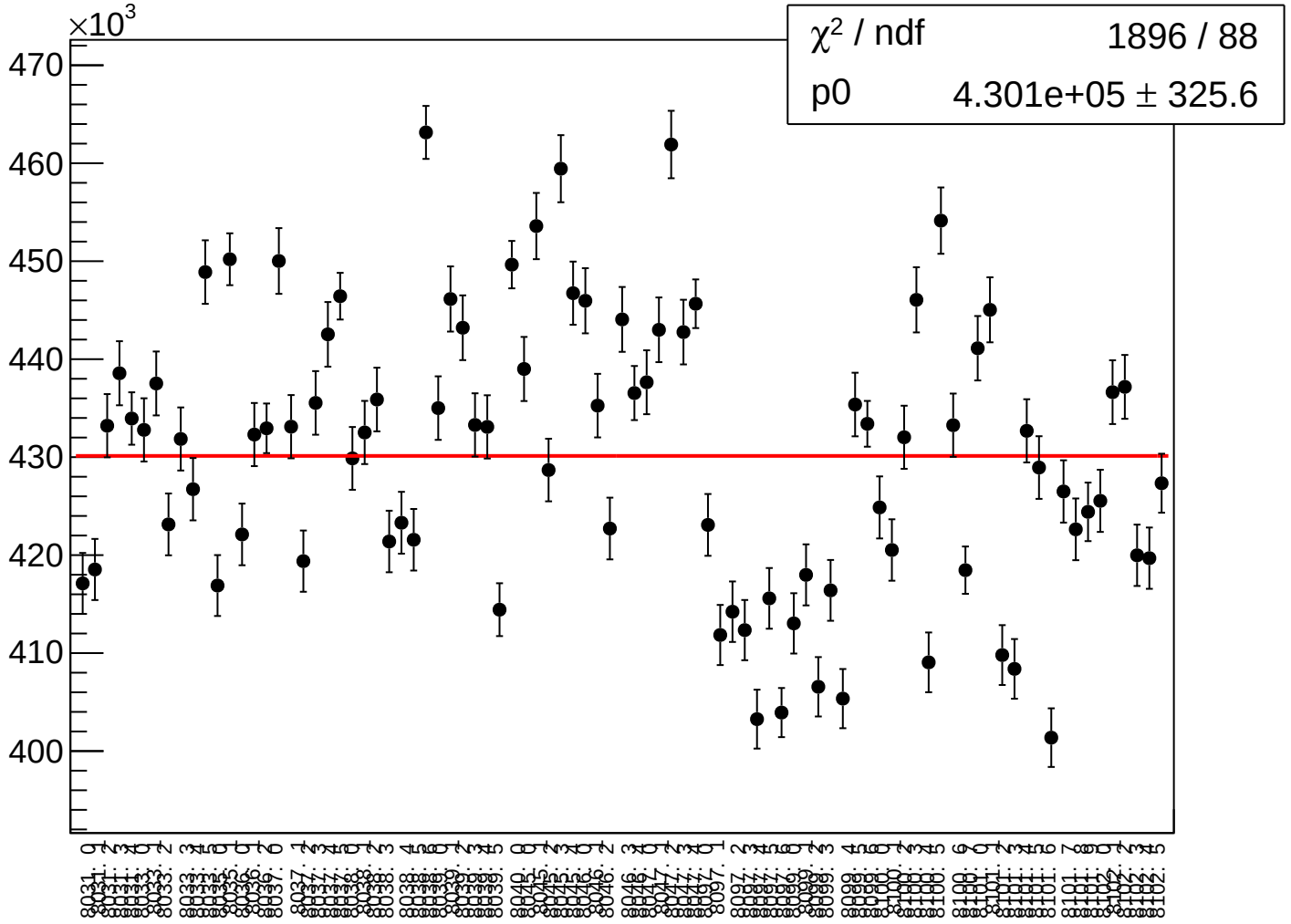

diff_cav4cY_mean vs run
$\chi^2$ / ndf 83.25 / 88
p0 −14.32 ± 192.5
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 55.57
Std Dev 0
2
1
0
−1
−2

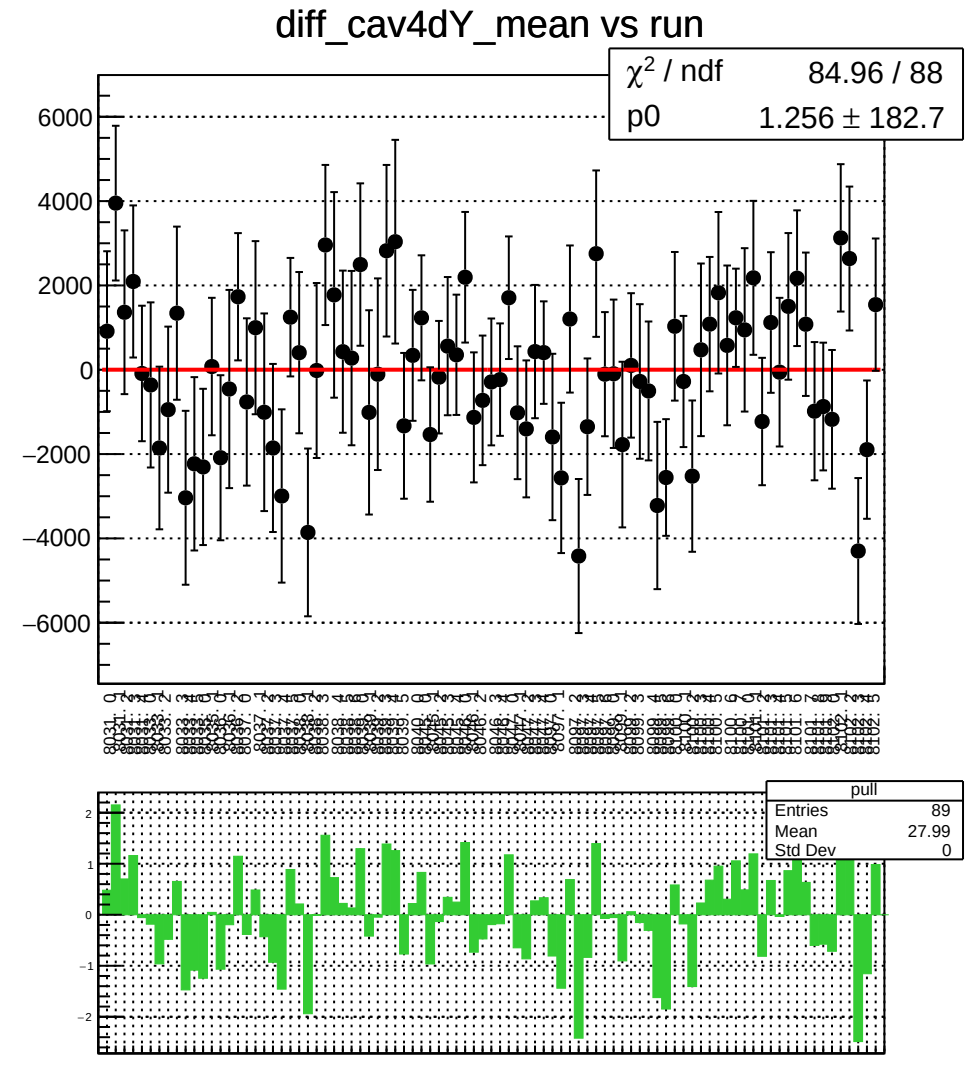

pull1D
Entries 89
Mean −0.01089
Std Dev 0.9671
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

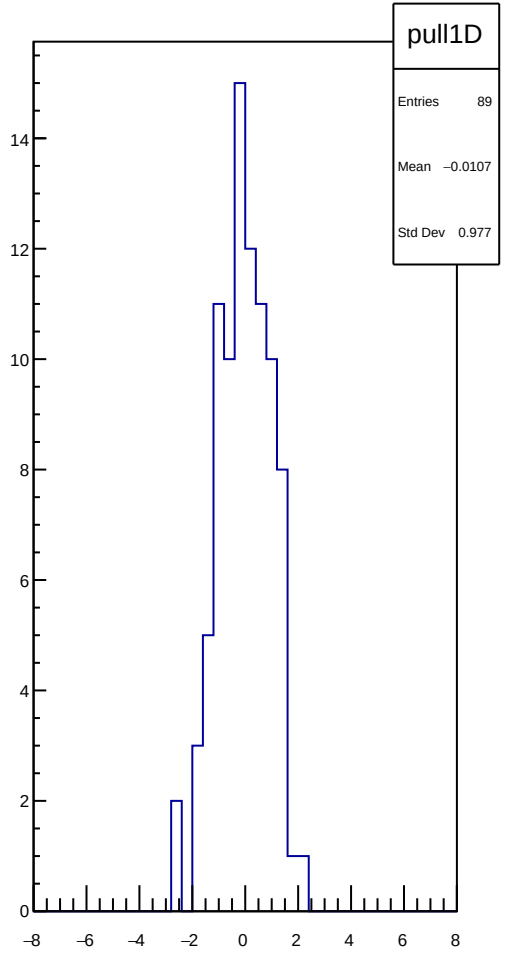

diff_cav4cY_rms vs run
χ² / ndf 3.244e+04 / 88
p0 1.782e+05 ± 136.1
×10³
280
260
240
220
200
180
160
140
120

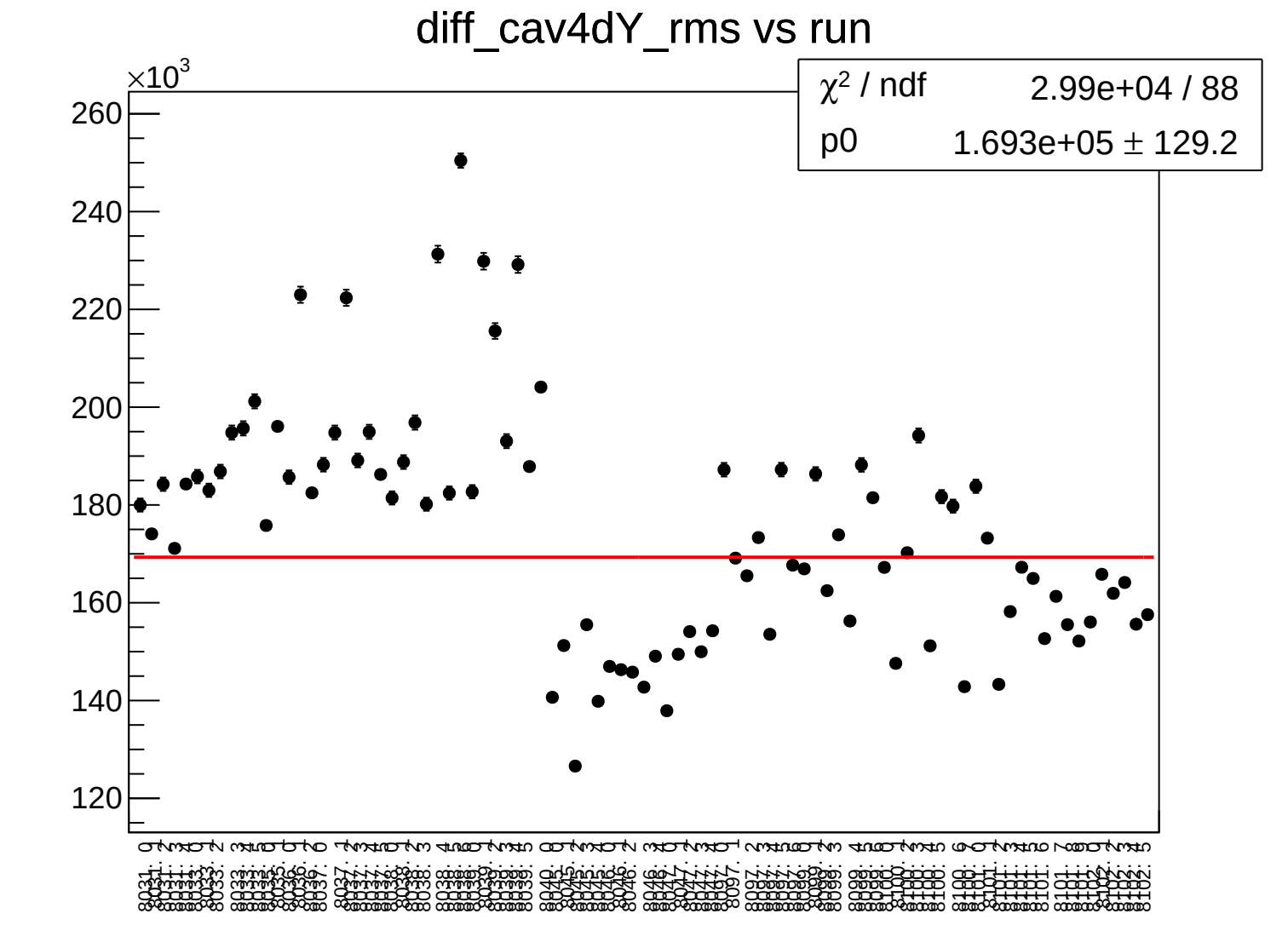

diff_cav4dX_mean vs run
χ² / ndf 79.79 / 88
p0 −476.9 ± 460.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 89
Mean −226.7
Std Dev 0
2
1
0
−1
−2
−3

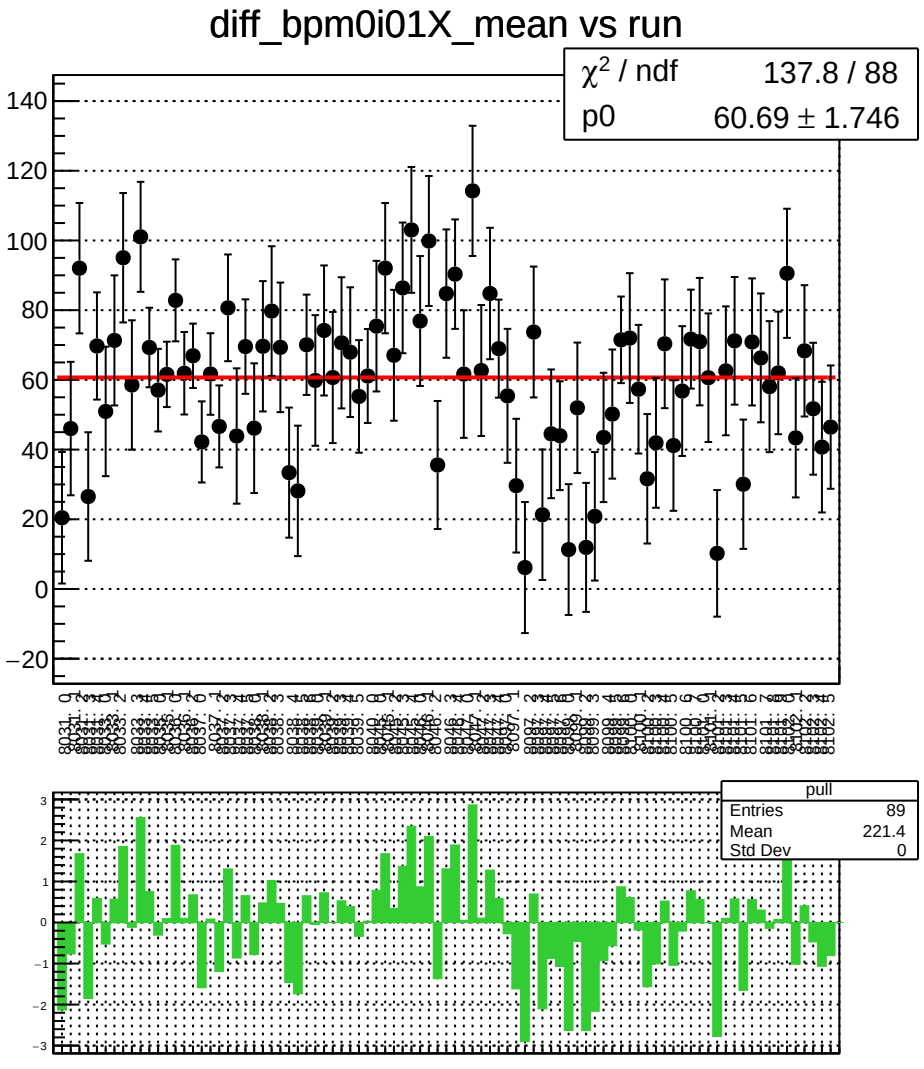

pull1D
Entries 89
Mean −0.006498
Std Dev 0.9468
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

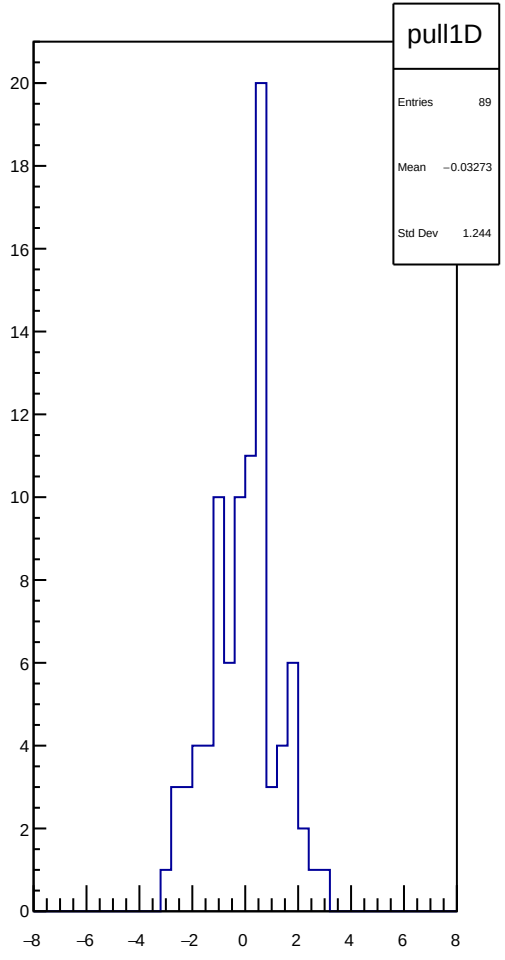

diff_cav4dX_rms vs run
×10^3
470
460
450
440
430
420
410
400
χ² / ndf 1896 / 88
p0 4.301e+05 ± 325.6

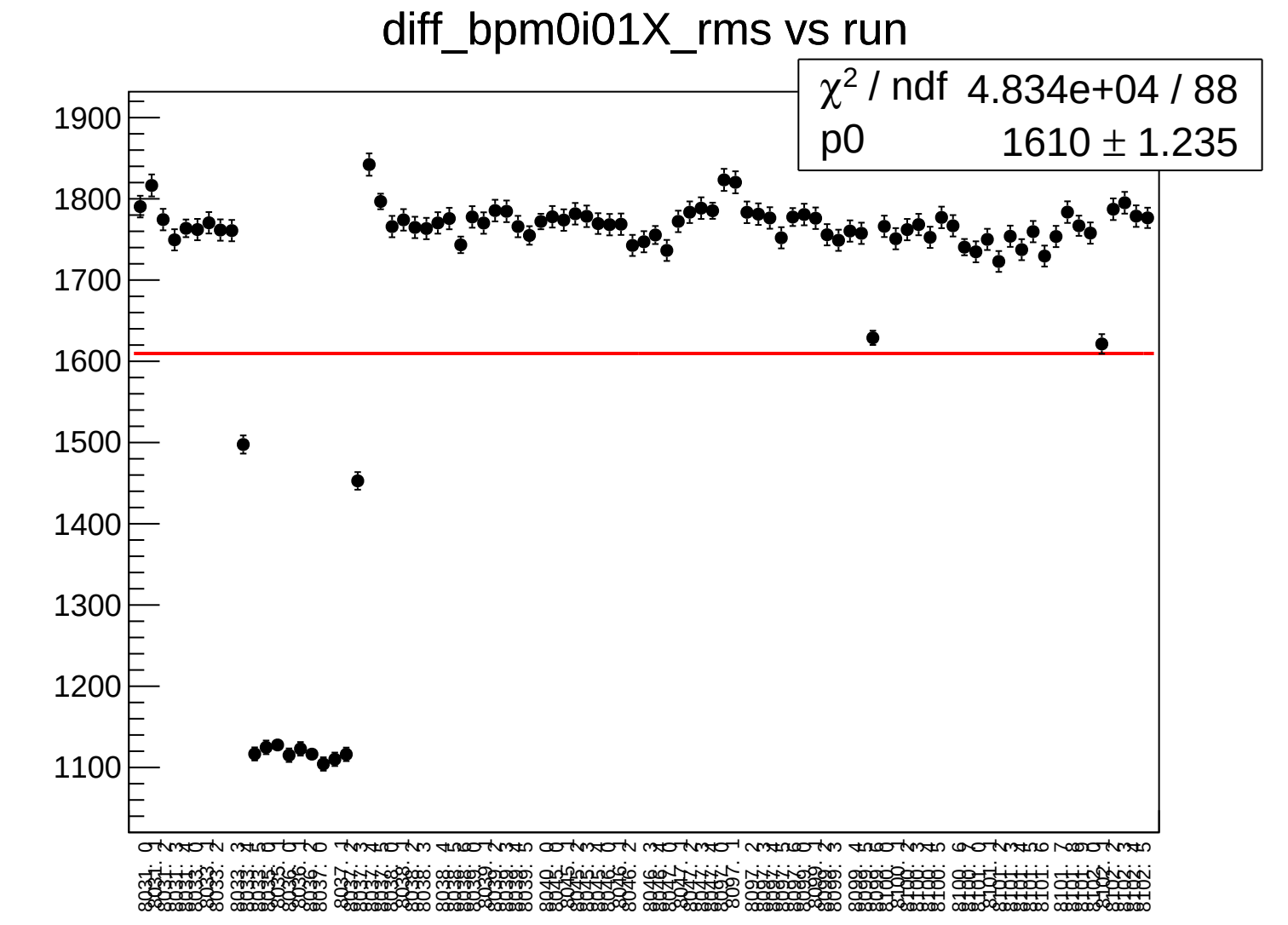

diff_cav4dY_mean vs run
χ² / ndf 84.96 / 88
p0 1.256 ± 182.7
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 27.99
Std Dev 0
2
1
0
−1
−2

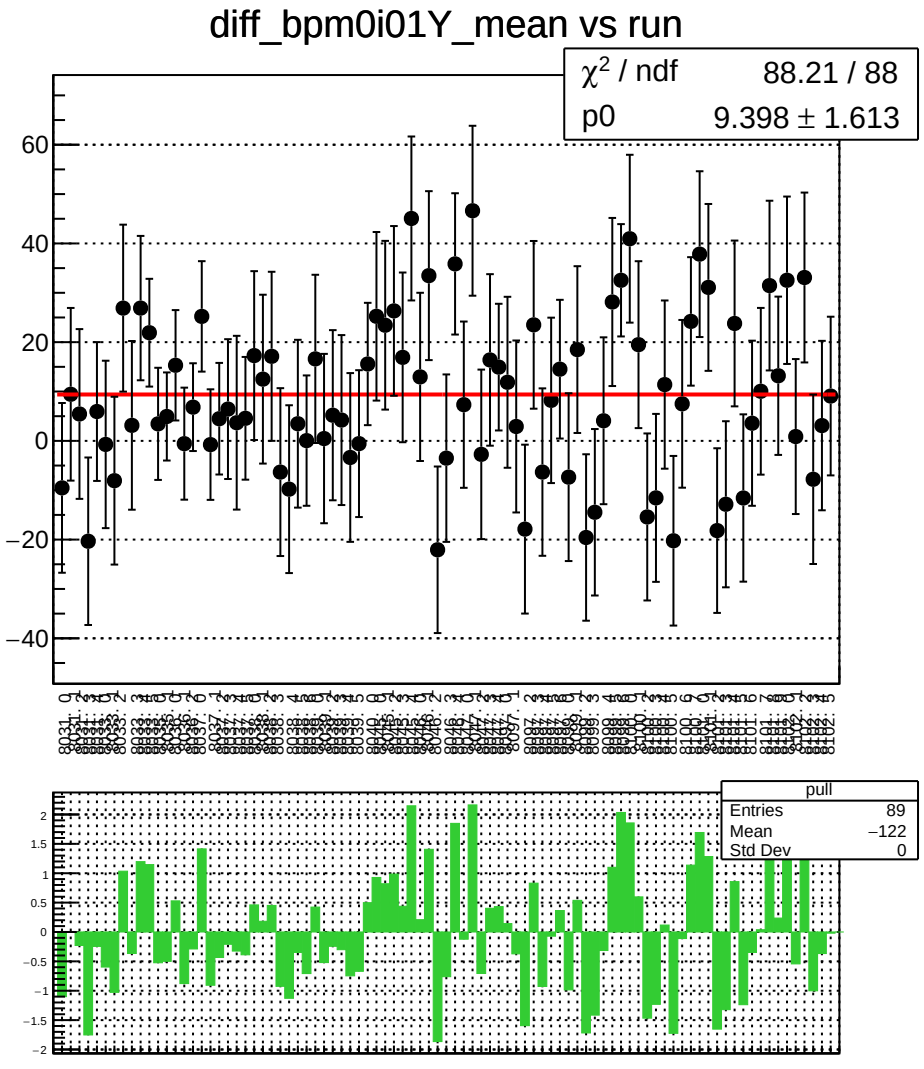

pull1D
Entries 89
Mean −0.0107
Std Dev 0.977
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

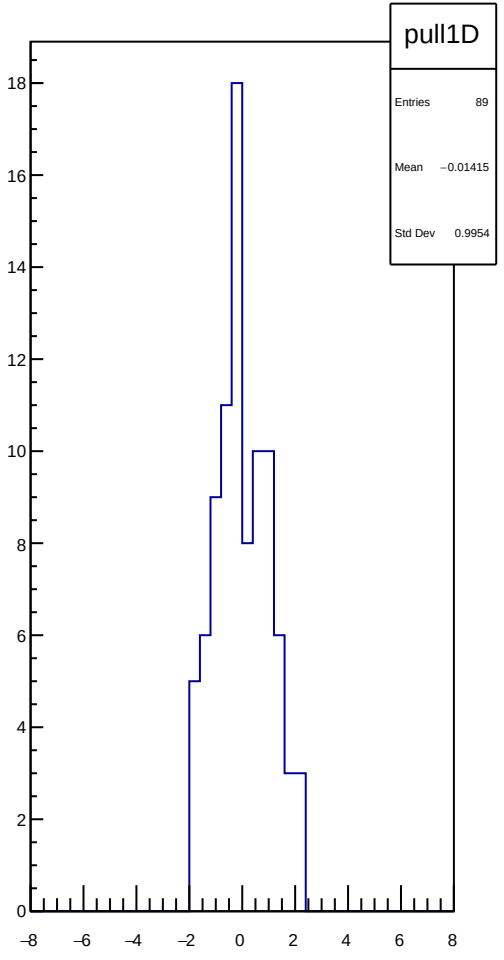

diff_cav4dY_rms vs run
×10^3
260
240
220
200
180
160
140
120
χ² / ndf 2.99e+04 / 88
p0 1.693e+05 ± 129.2

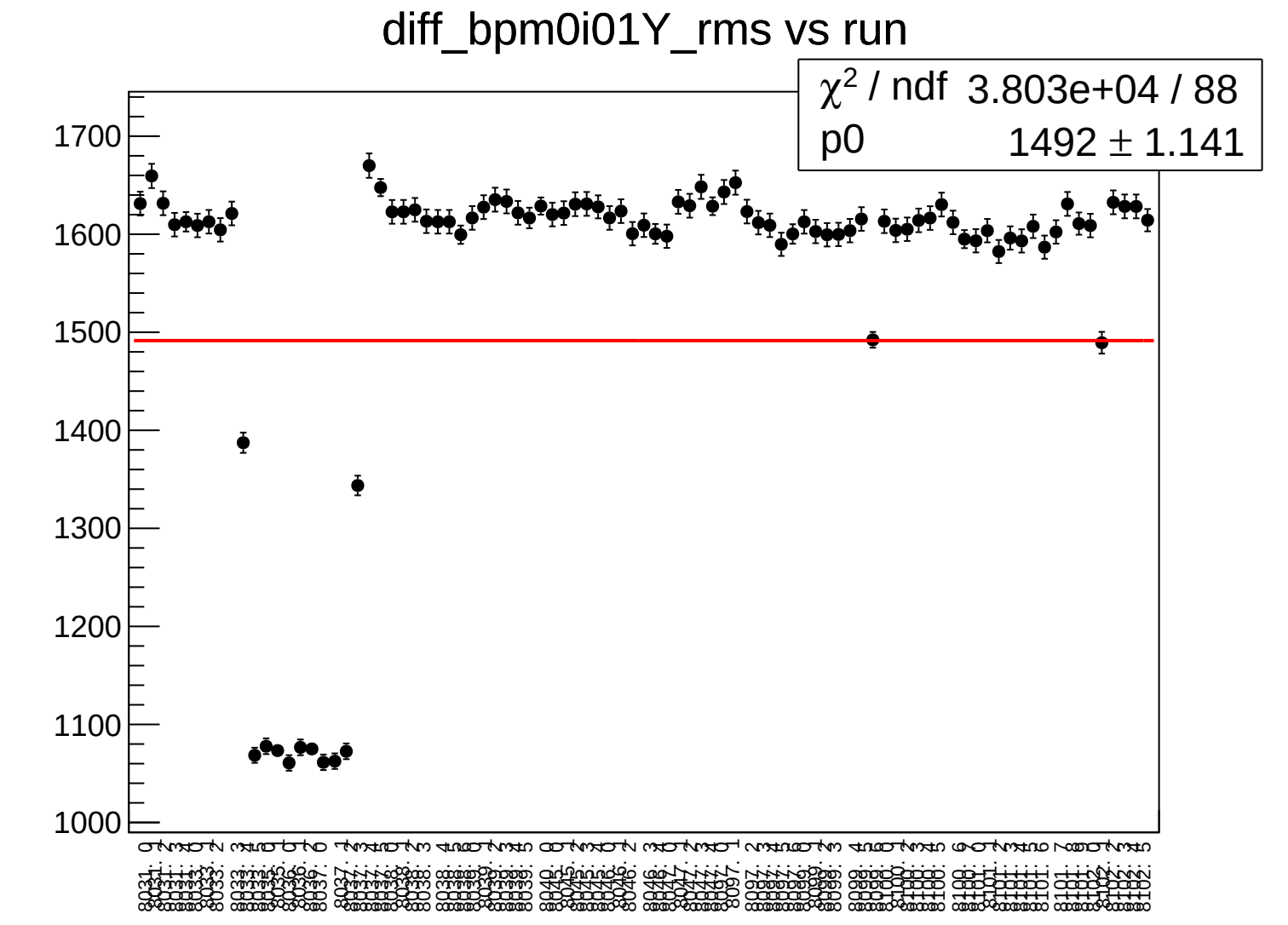

diff_bpm0i01X_mean vs run
$\chi^2$ / ndf 137.8 / 88
p0 60.69 ± 1.746
pull
Entries 89
Mean 221.4
Std Dev 0

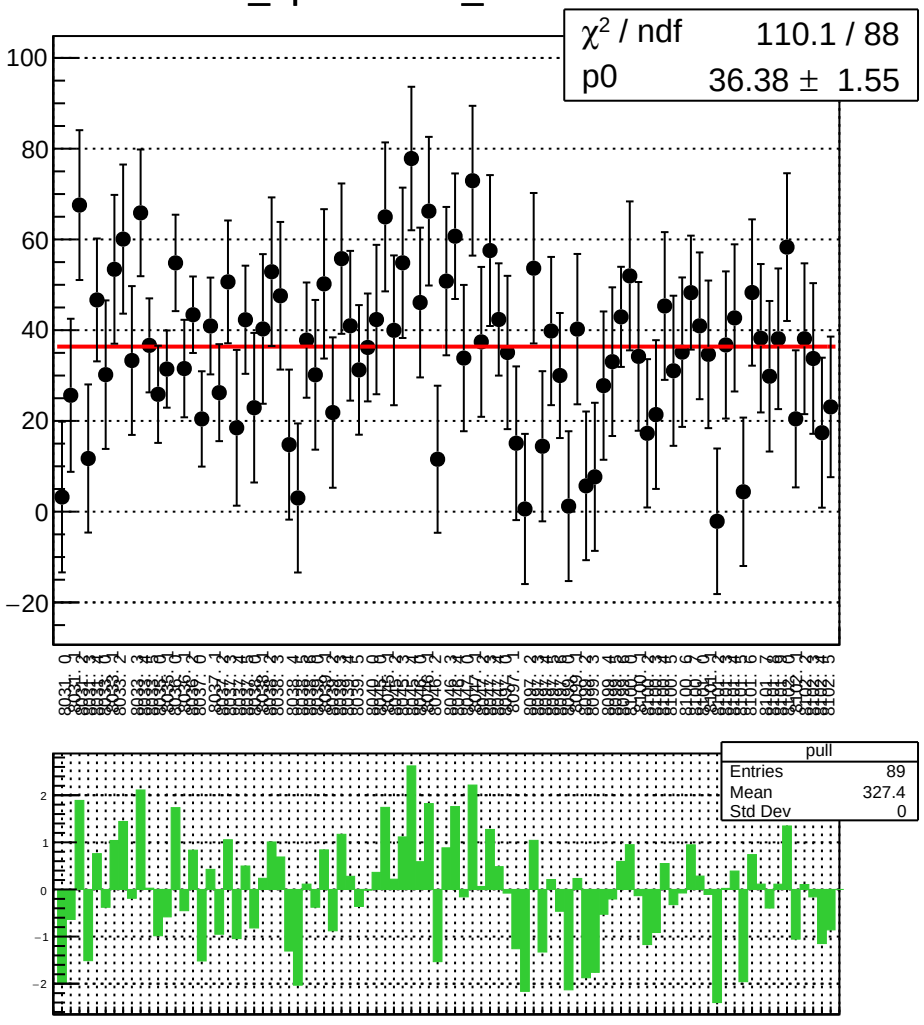

pull1D
Entries 89
Mean −0.03273
Std Dev 1.244

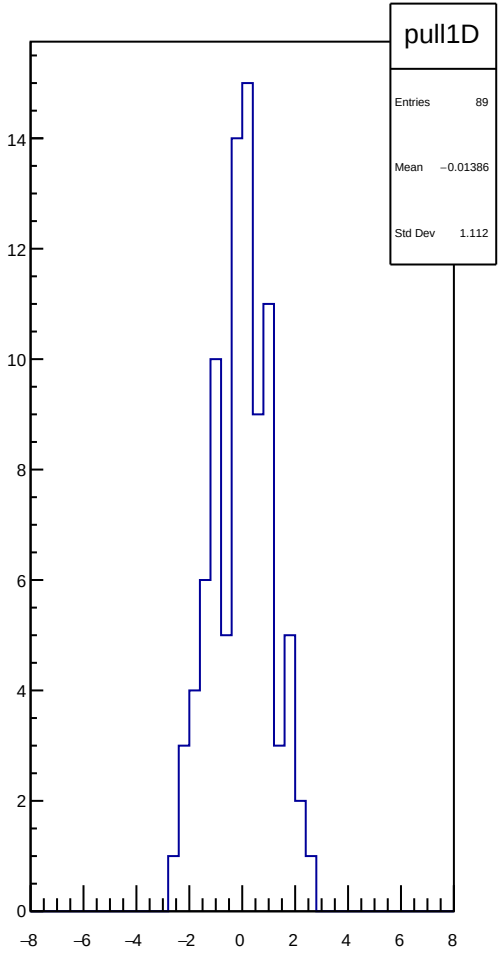

diff_bpm0i01X_rms vs run
$\chi^2$ / ndf 4.834e+04 / 88
p0 1610 ± 1.235
1900
1800
1700
1600
1500
1400
1300
1200
1100

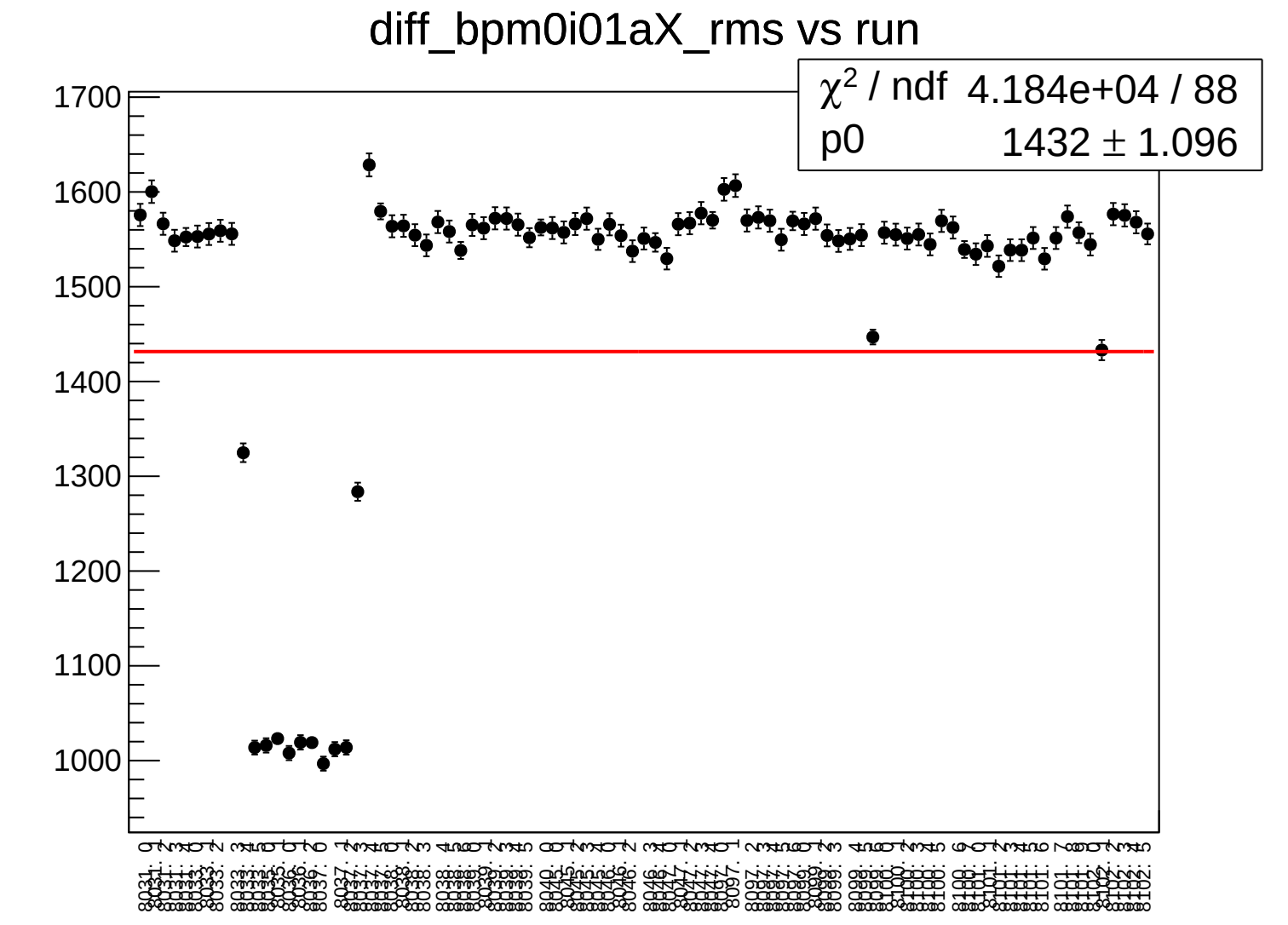

diff_bpm0i01Y_mean vs run
χ² / ndf 88.21 / 88
p0 9.398 ± 1.613
pull
Entries 89
Mean −122
Std Dev 0

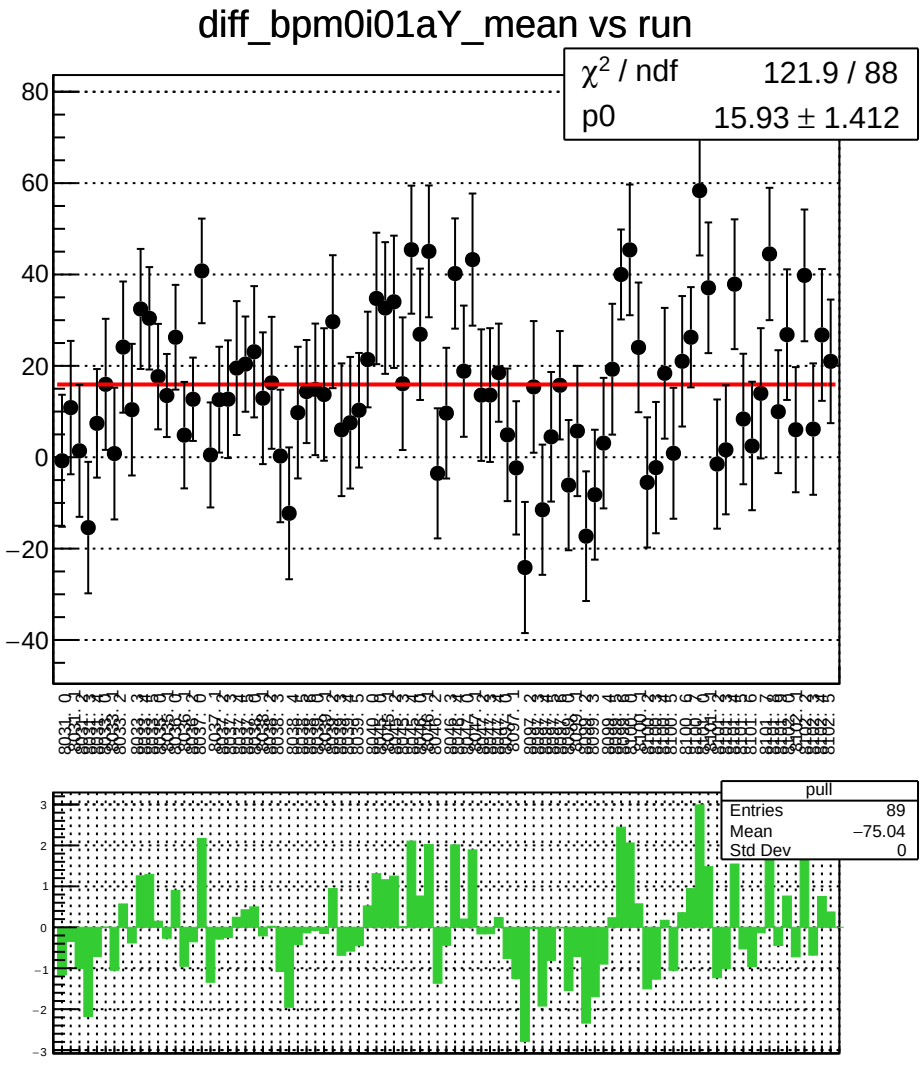

pull1D
Entries 89
Mean −0.01415
Std Dev 0.9954

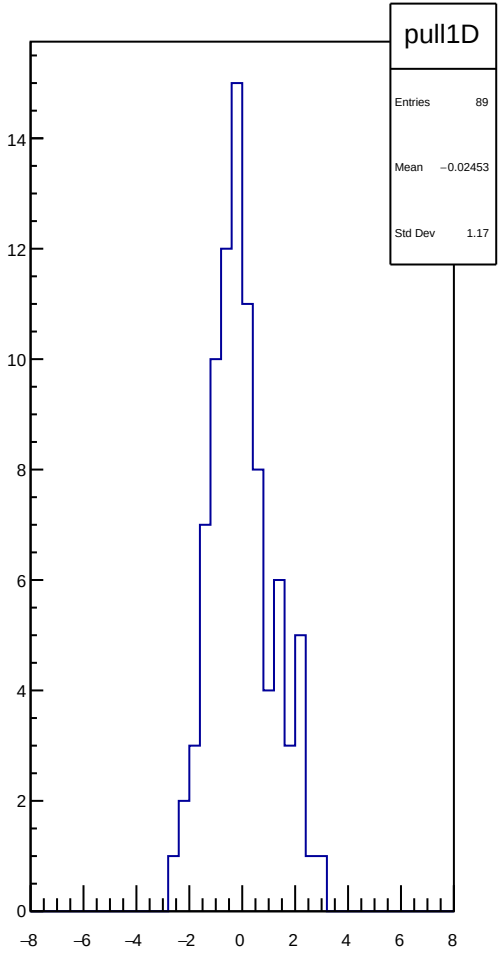

diff_bpm0i01Y_rms vs run
χ² / ndf 3.803e+04 / 88
p0 1492 ± 1.141
1700
1600
1500
1400
1300
1200
1100
1000

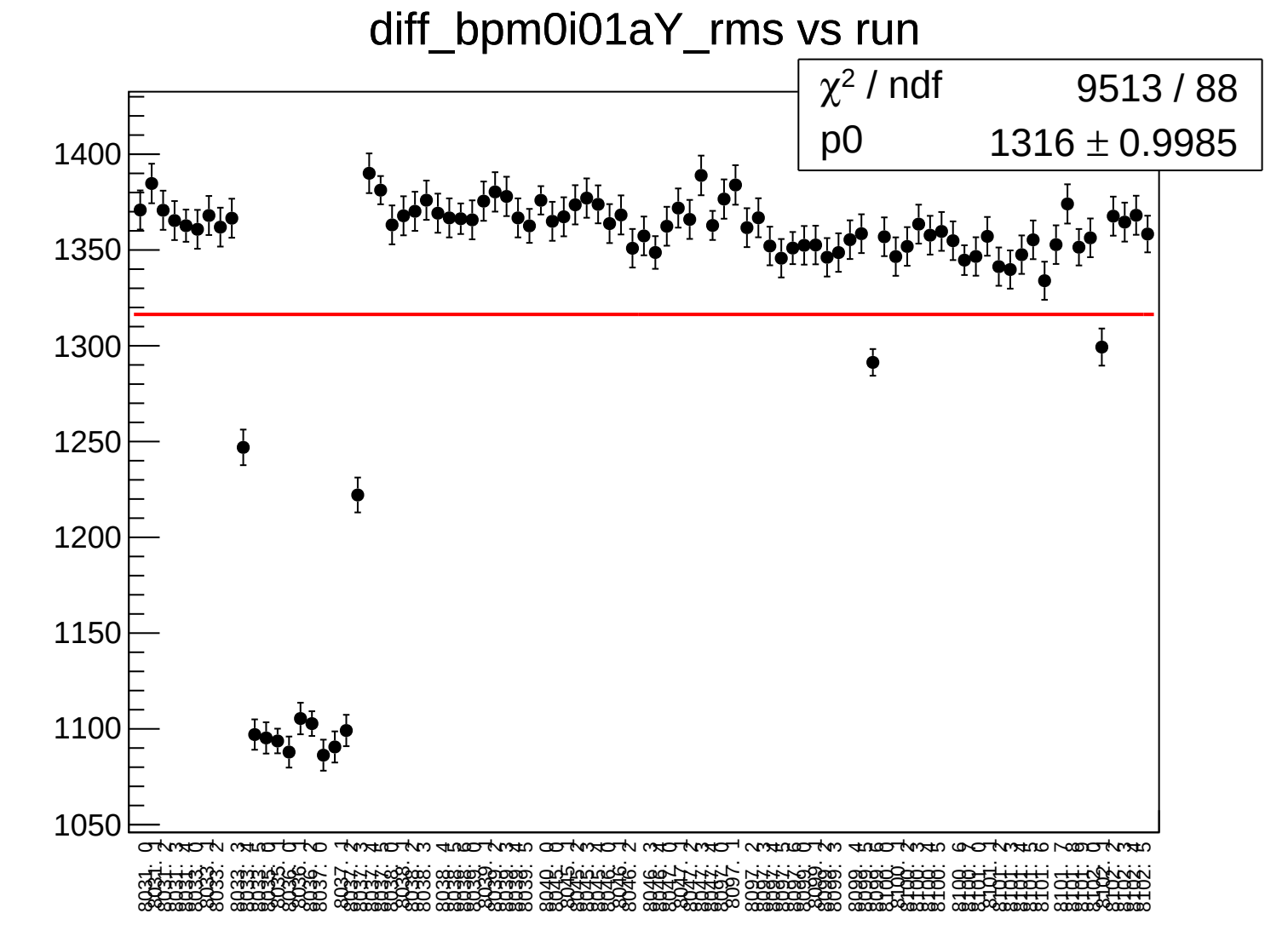

diff_bpm0i01aX_mean vs run
$\chi^2$ / ndf 110.1 / 88
p0 36.38 ± 1.55
pull
Entries 89
Mean 327.4
Std Dev 0

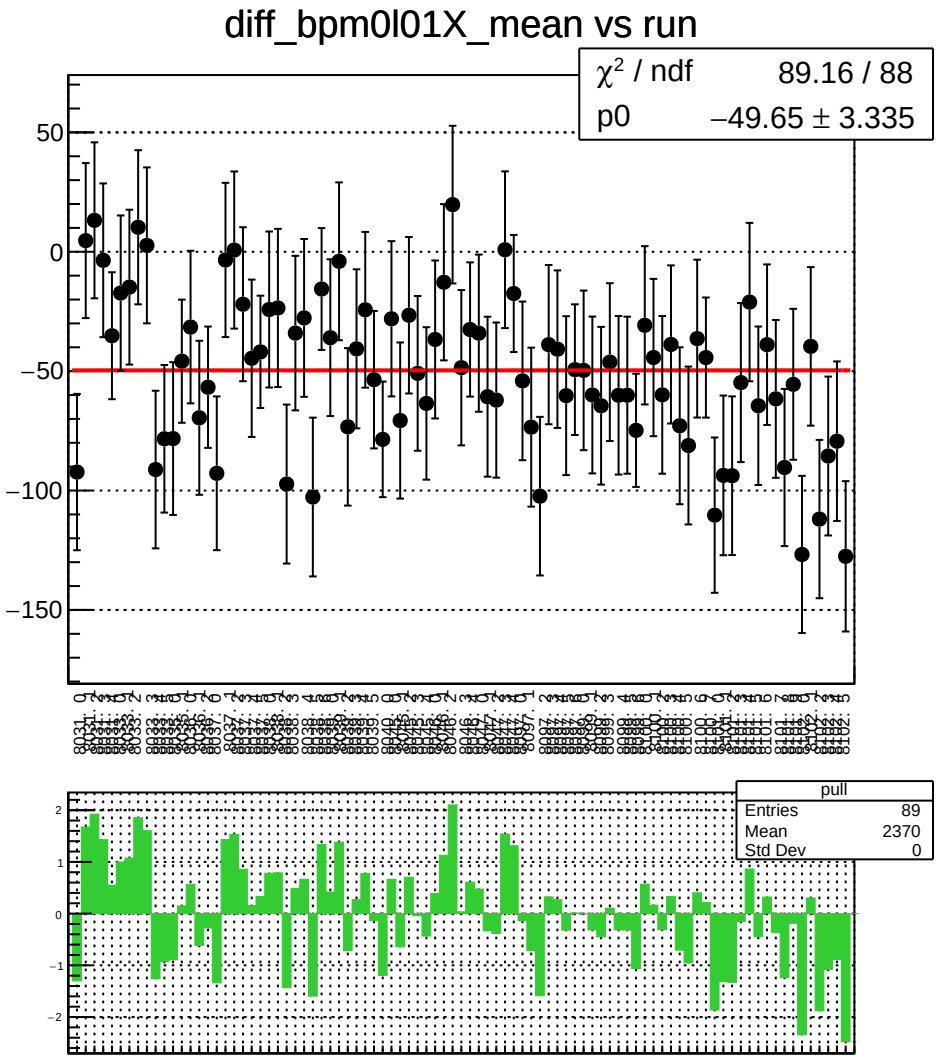

pull1D
Entries 89
Mean −0.01386
Std Dev 1.112

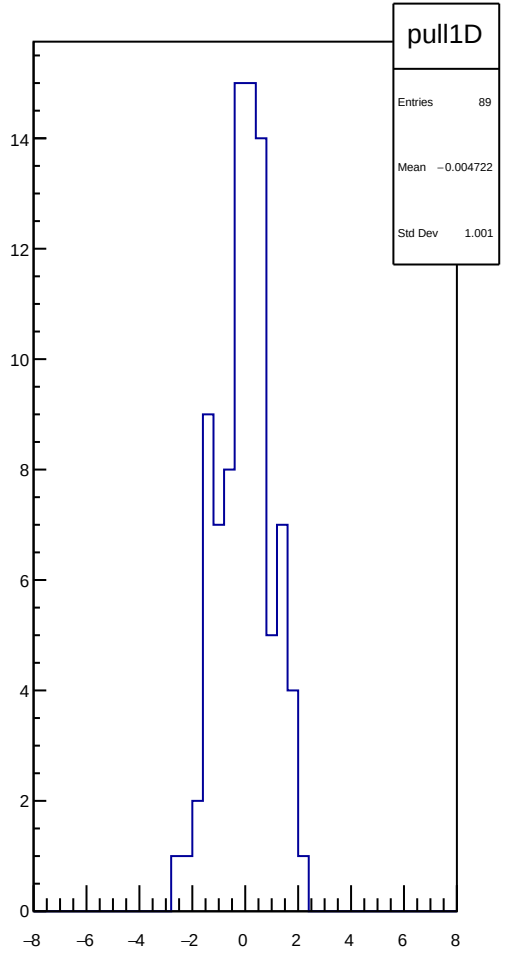

diff_bpm0i01aX_rms vs run
χ² / ndf 4.184e+04 / 88
p0 1432 ± 1.096
1700
1600
1500
1400
1300
1200
1100
1000

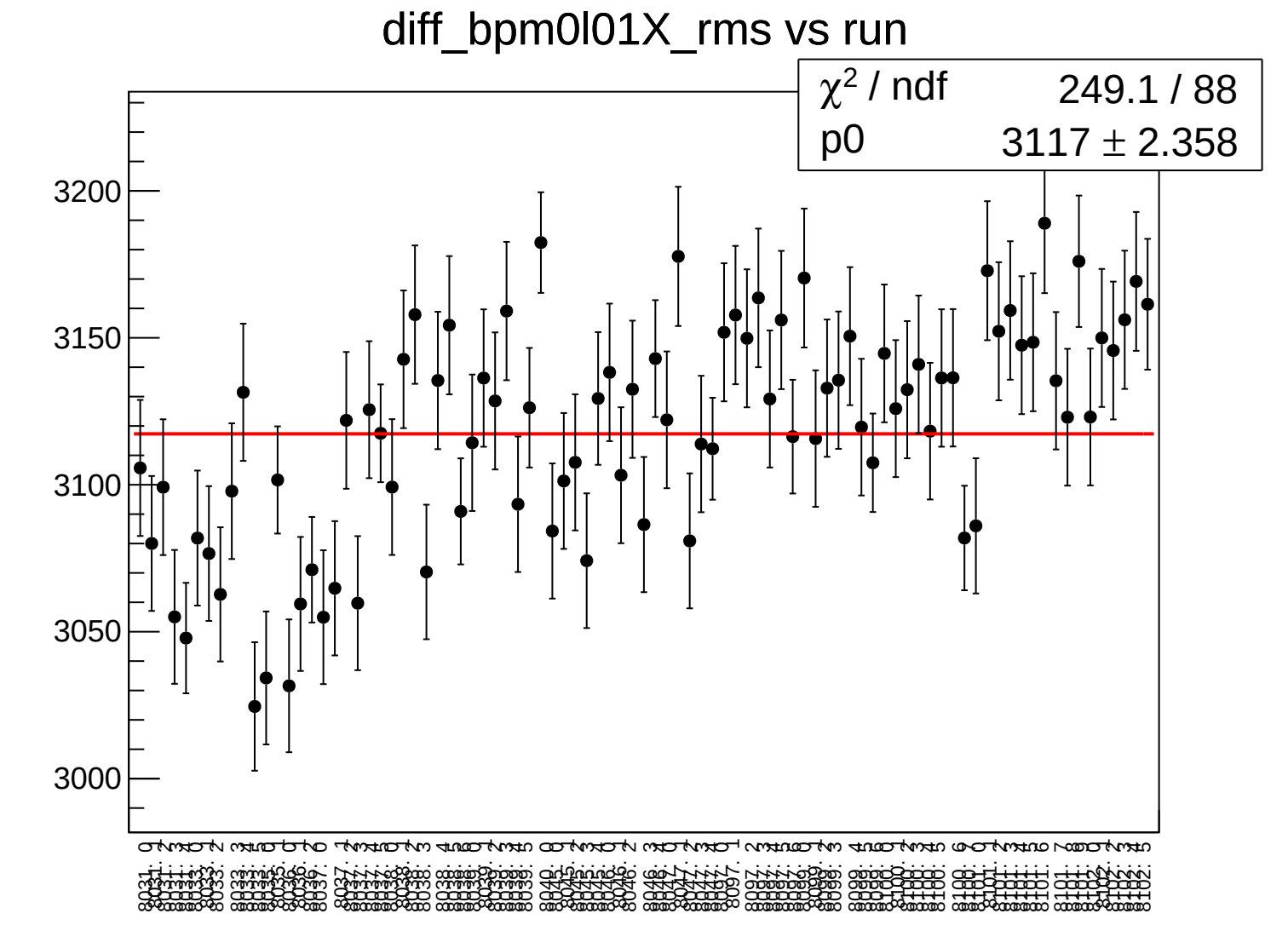

diff_bpm0i01aY_mean vs run
χ² / ndf 121.9 / 88
p0 15.93 ± 1.412
pull
Entries 89
Mean −75.04
Std Dev 0

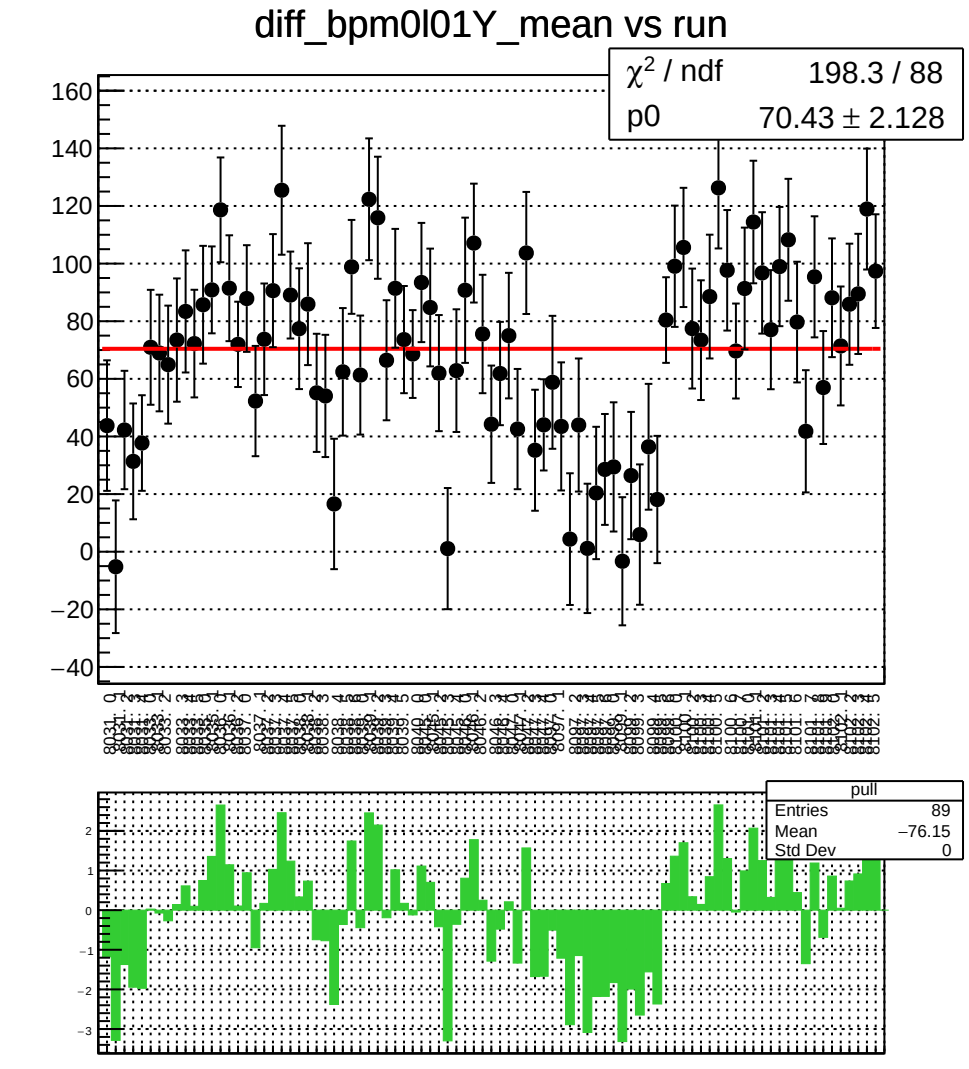

pull1D
Entries 89
Mean −0.02453
Std Dev 1.17

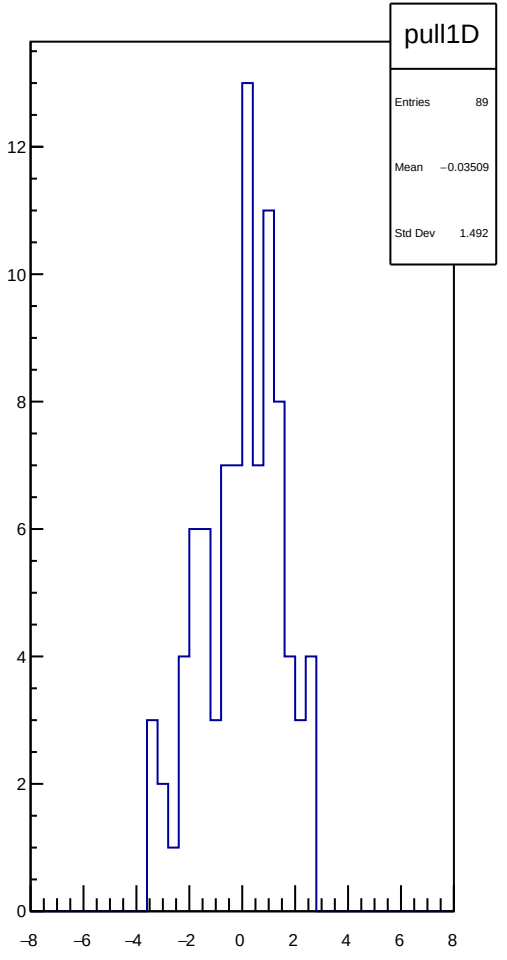

diff_bpm0i01aY_rms vs run
χ² / ndf 9513 / 88
p0 1316 ± 0.9985
1400
1350
1300
1250
1200
1150
1100
1050

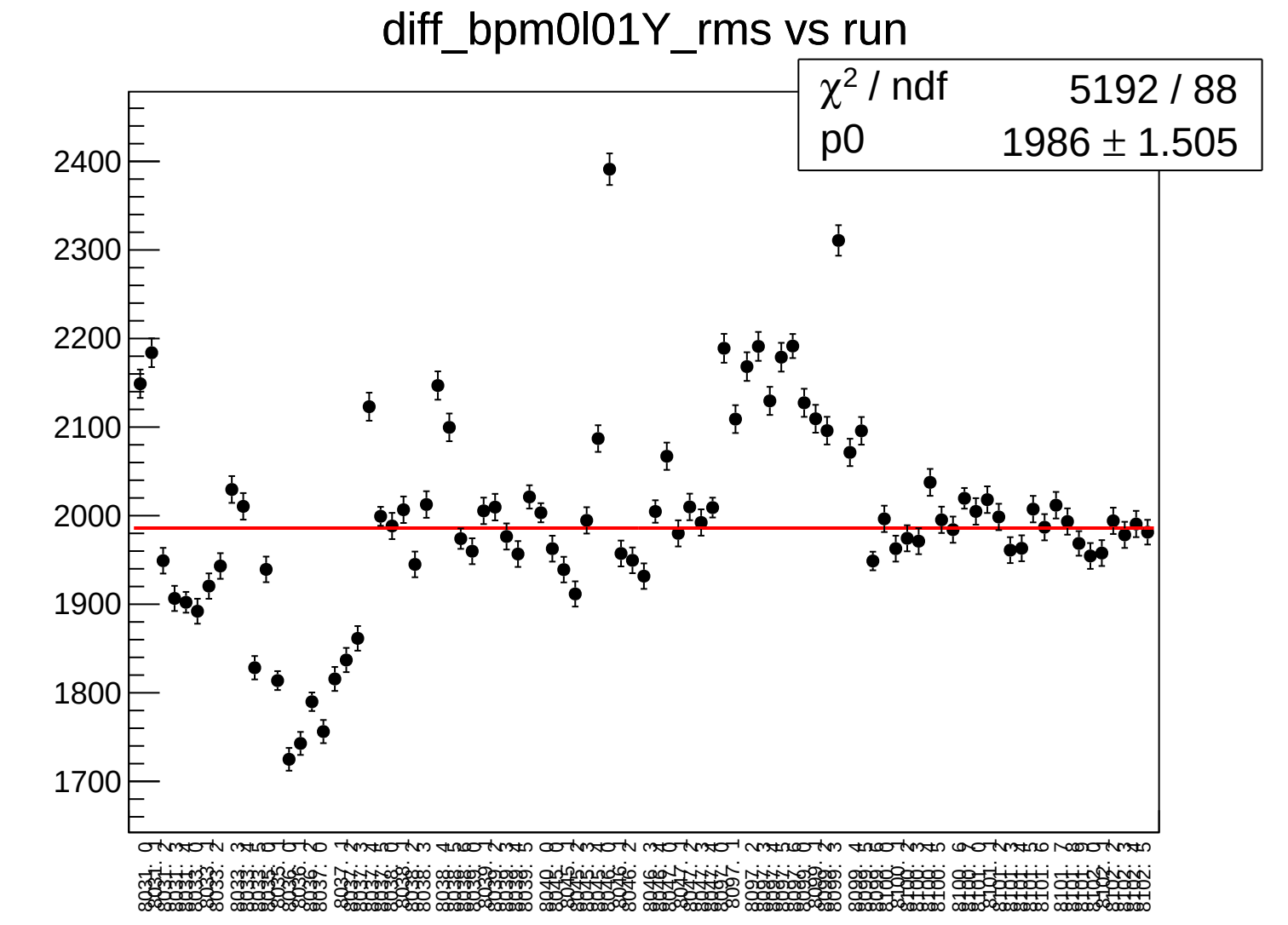

diff_bpm0l01X_mean vs run
$\chi^2$ / ndf 89.16 / 88
p0 −49.65 ± 3.335
50
0
−50
−100
−150
pull
Entries 89
Mean 2370
Std Dev 0
2
1
0
−1
−2

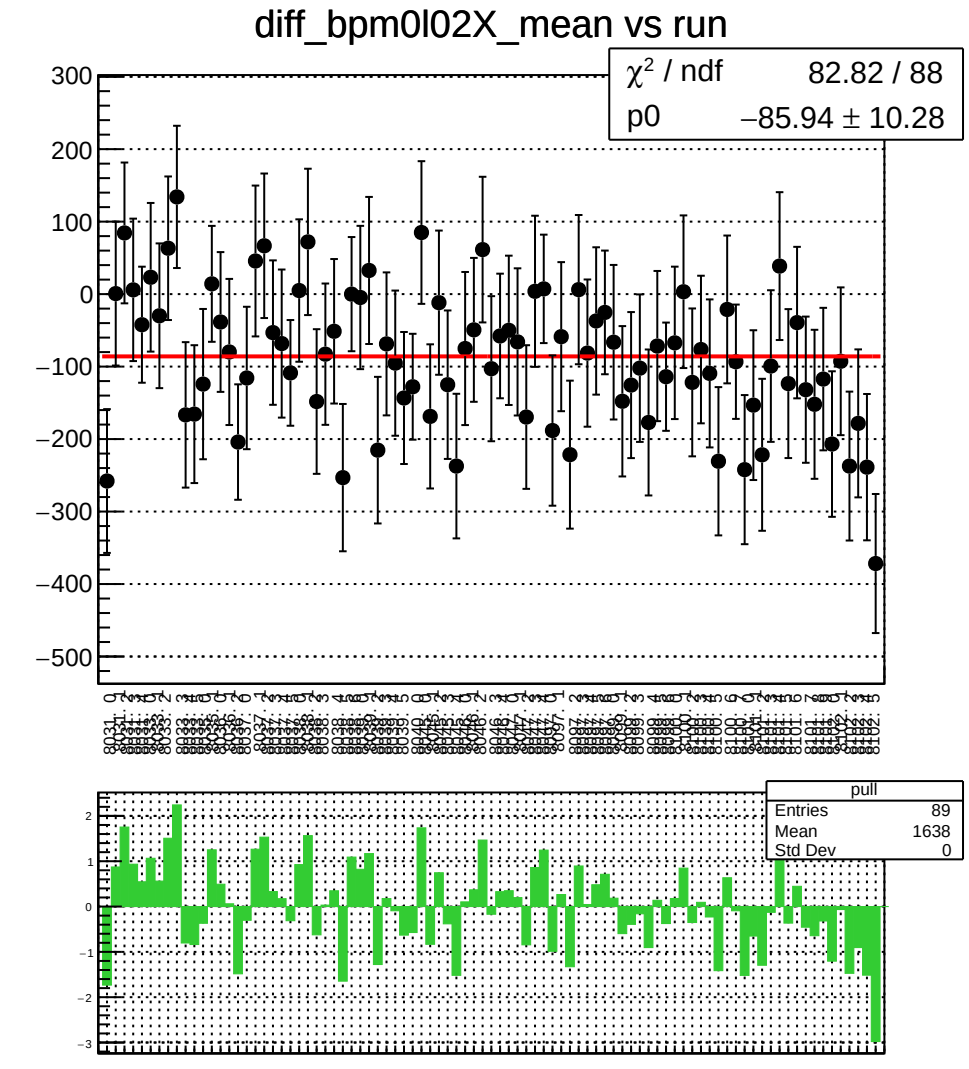

pull1D
Entries 89
Mean −0.004722
Std Dev 1.001
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

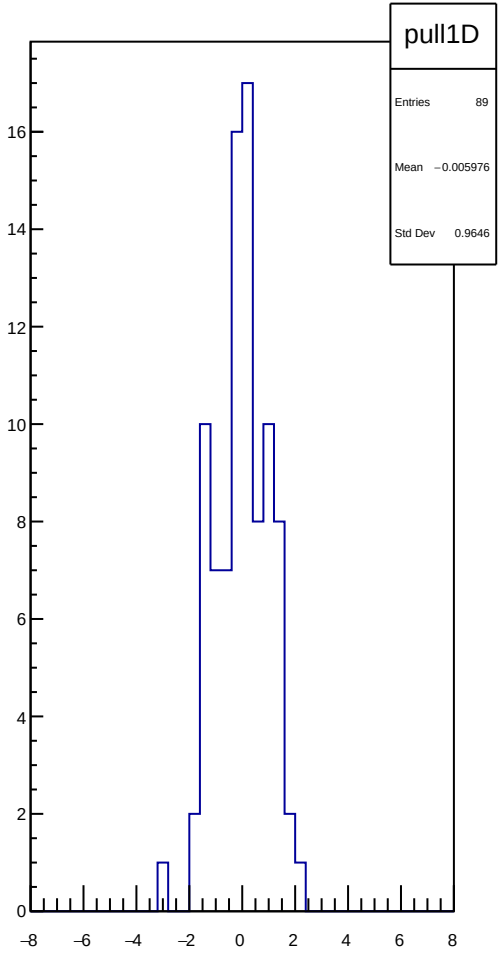

diff_bpm0l01X_rms vs run
χ² / ndf 249.1 / 88
p0 3117 ± 2.358
3200
3150
3100
3050
3000

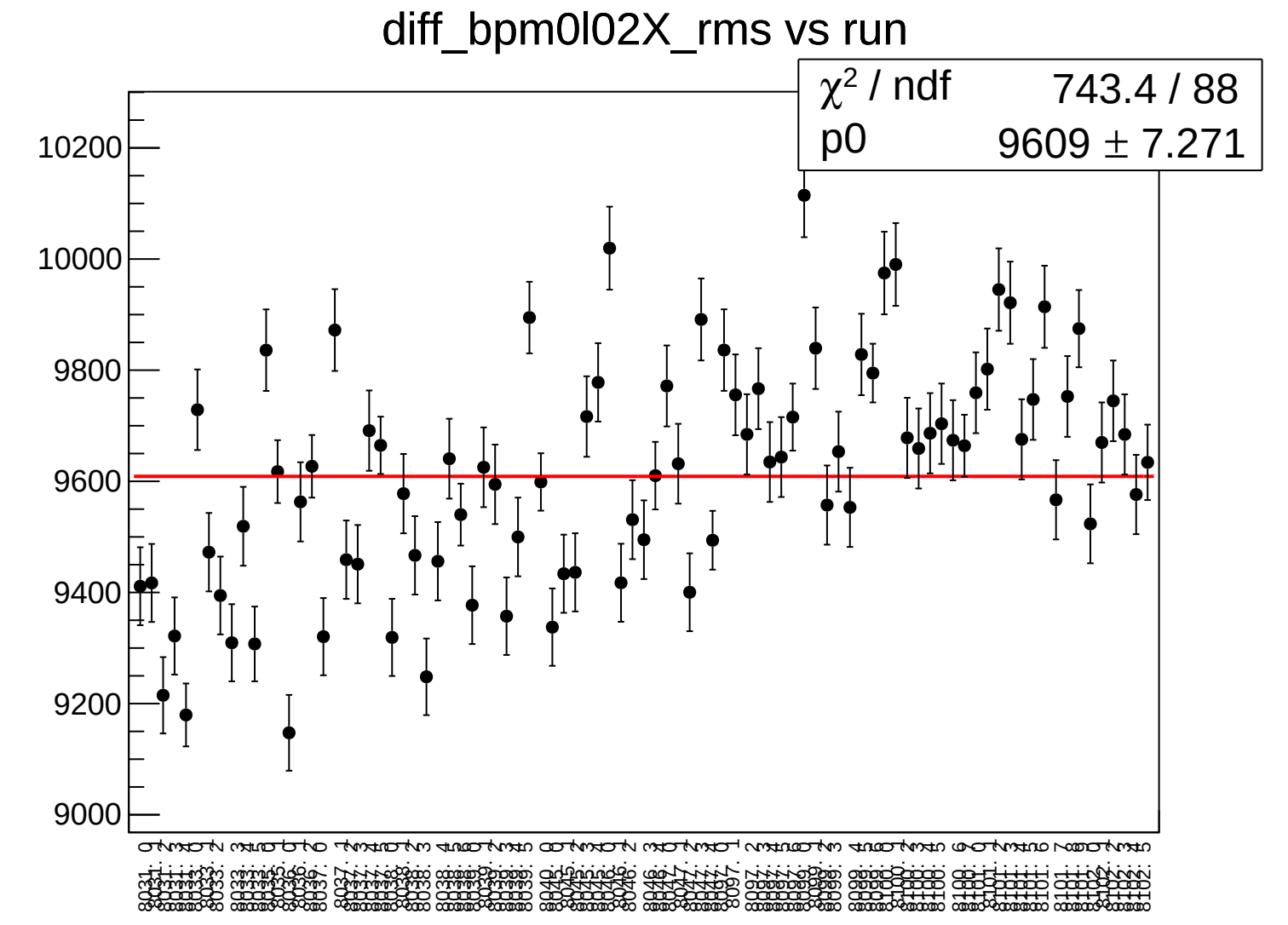

diff_bpm0l01Y_mean vs run
χ² / ndf 198.3 / 88
p0 70.43 ± 2.128
pull
Entries 89
Mean −76.15
Std Dev 0

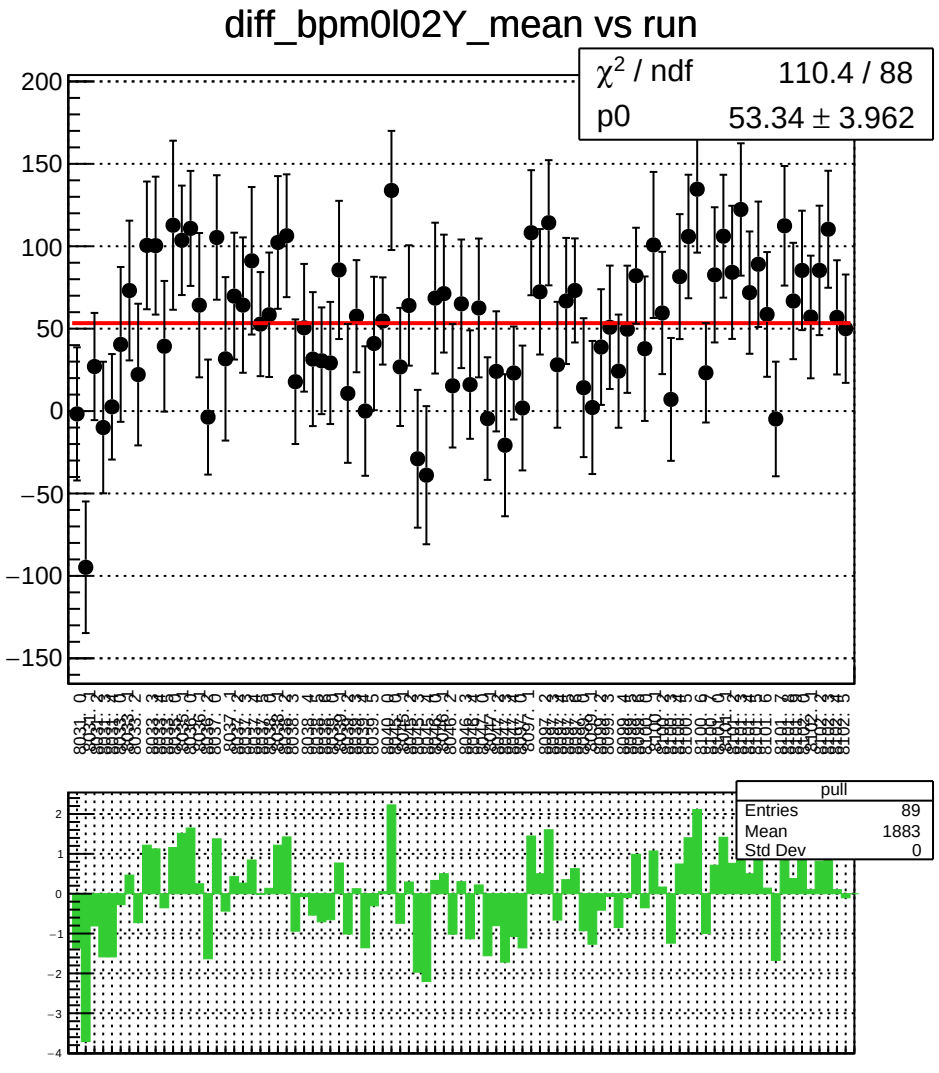

pull1D
Entries 89
Mean −0.03509
Std Dev 1.492

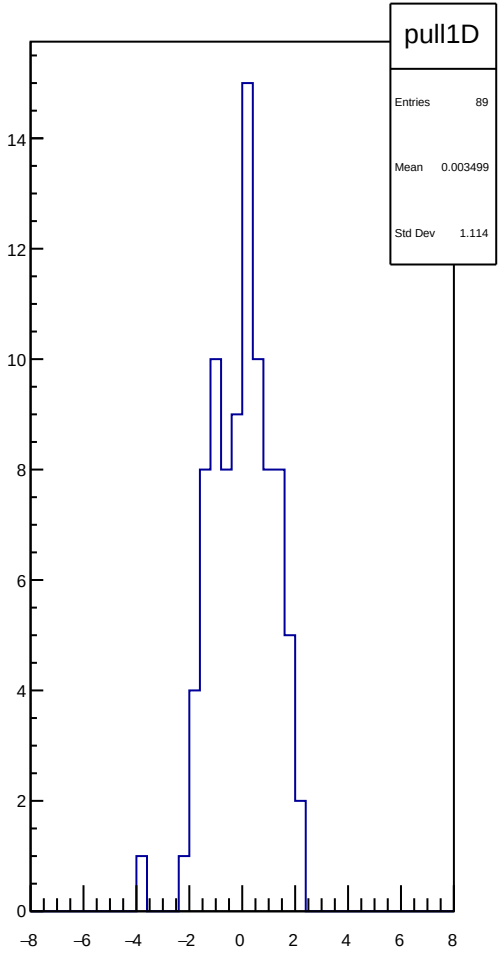

diff_bpm0l01Y_rms vs run
χ² / ndf 5192 / 88
p0 1986 ± 1.505
2400
2300
2200
2100
2000
1900
1800
1700

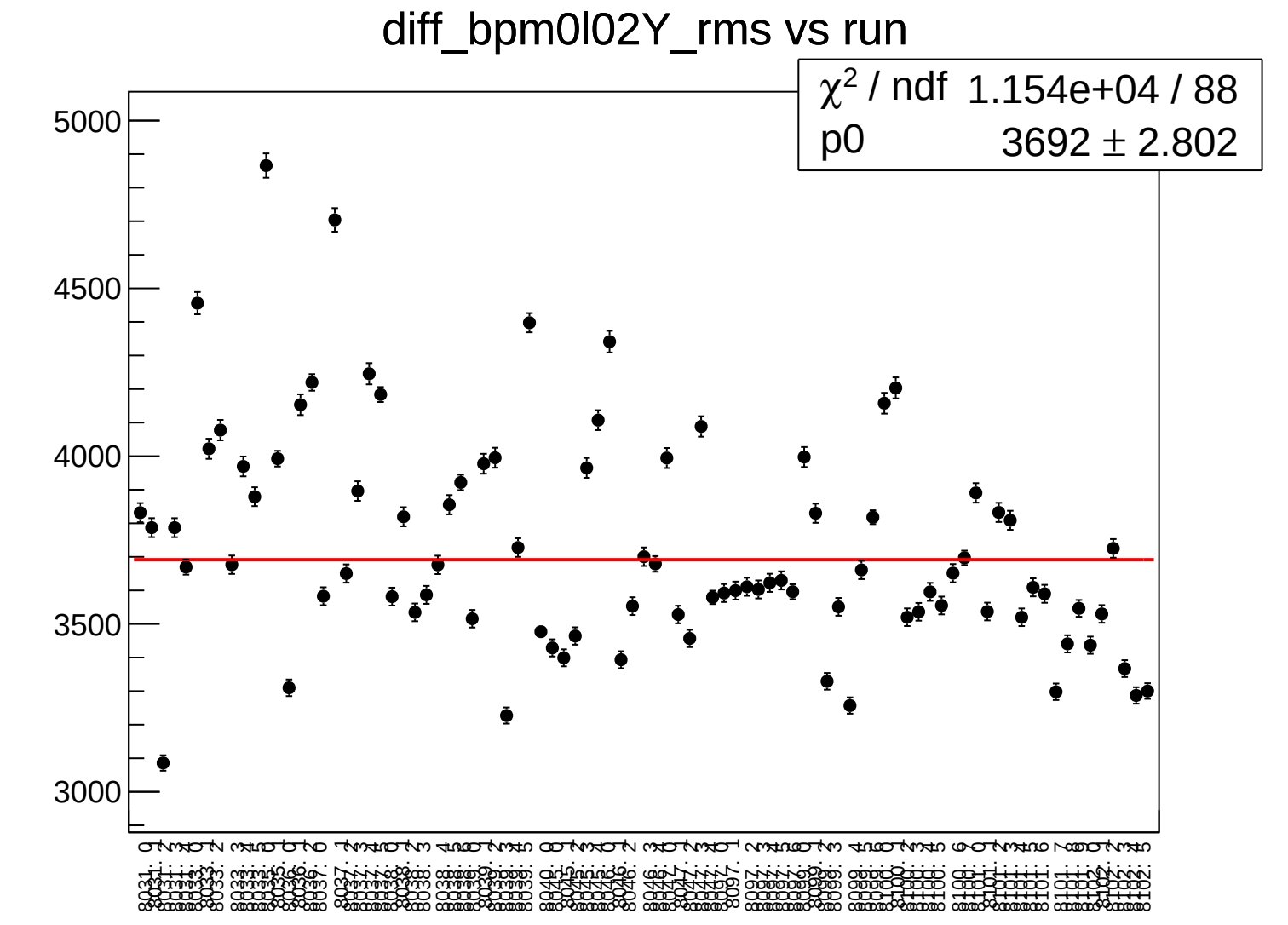

diff_bpm0l02X_mean vs run
χ² / ndf 82.82 / 88
p0 −85.94 ± 10.28
pull
Entries 89
Mean 1638
Std Dev 0

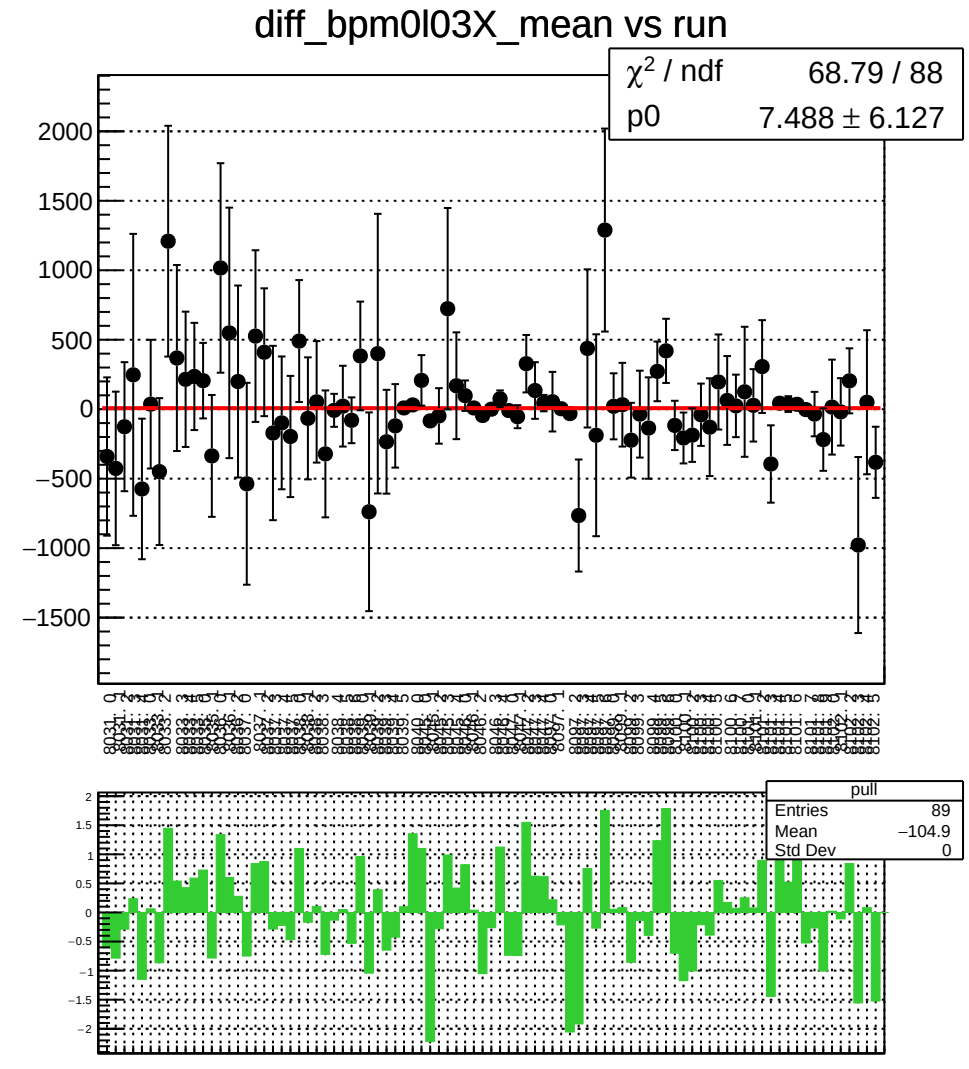

pull1D
Entries 89
Mean −0.005976
Std Dev 0.9646

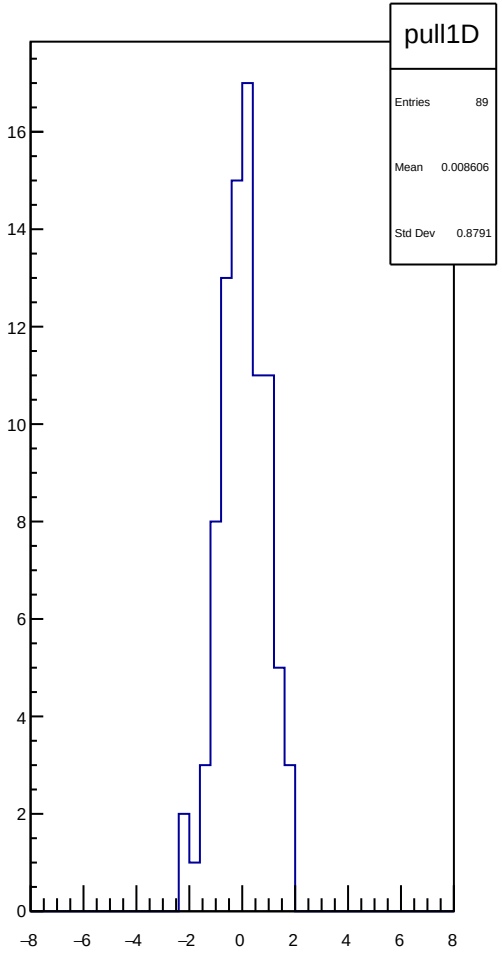

diff_bpm0l02X_rms vs run
χ² / ndf 743.4 / 88
p0 9609 ± 7.271
10200
10000
9800
9600
9400
9200
9000

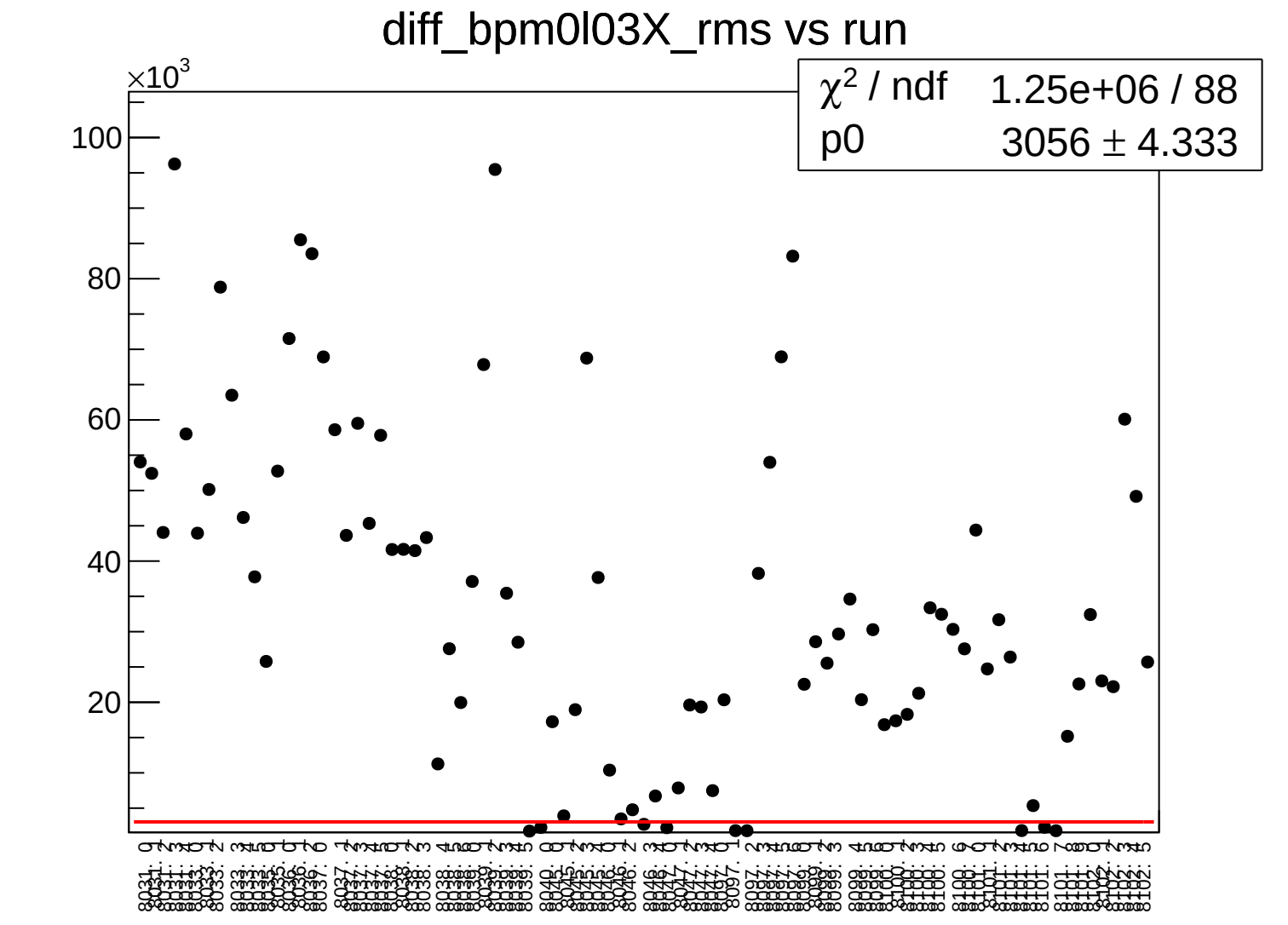

diff_bpm0l02Y_mean vs run
χ² / ndf 110.4 / 88
p0 53.34 ± 3.962
pull
Entries 89
Mean 1883
Std Dev 0

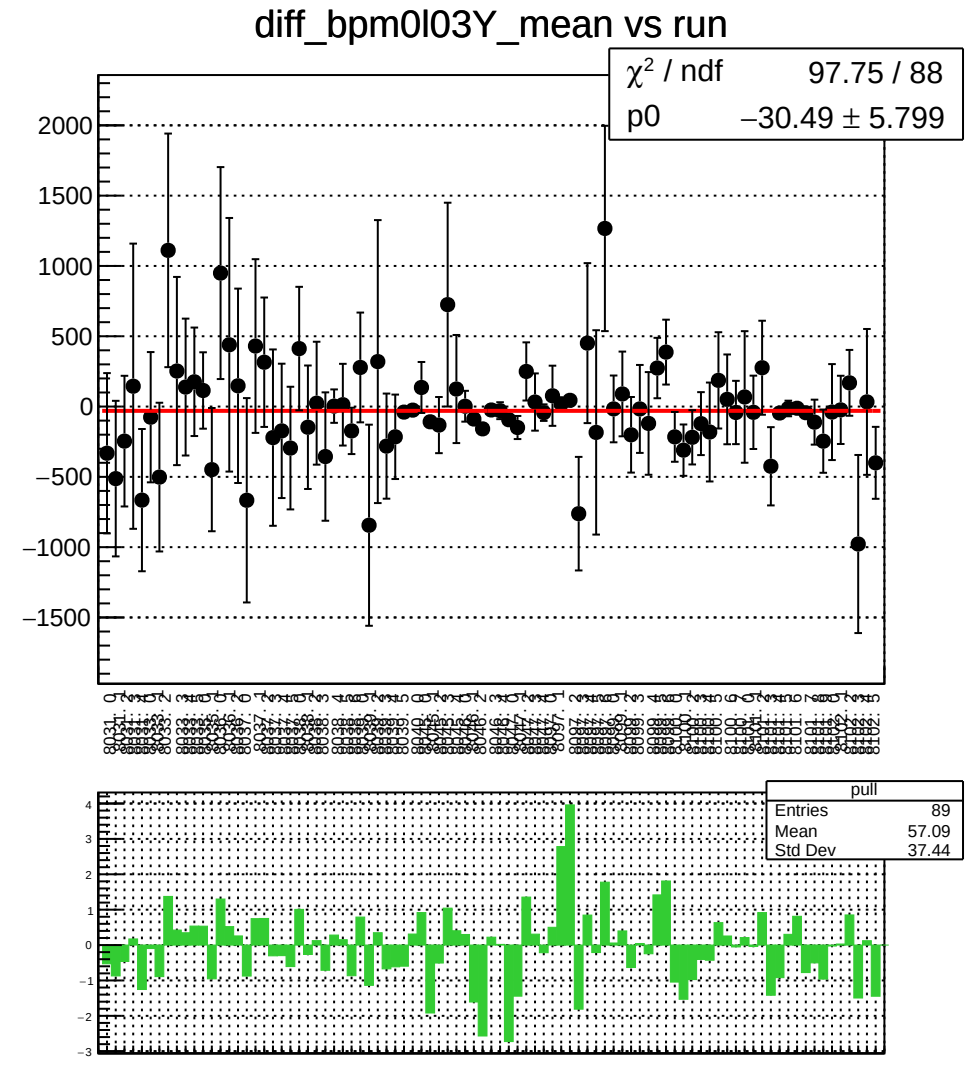

pull1D
Entries 89
Mean 0.003499
Std Dev 1.114

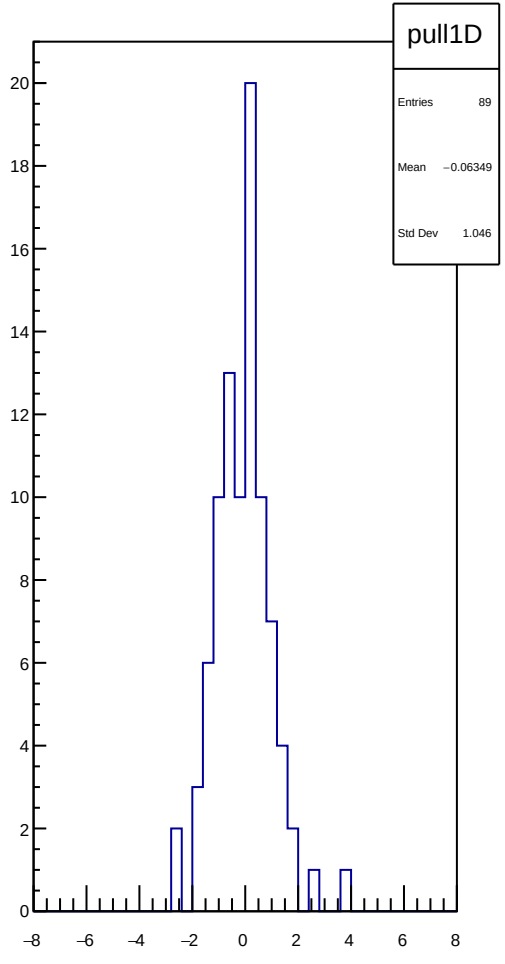

diff_bpm0l02Y_rms vs run
χ² / ndf 1.154e+04 / 88
p0 3692 ± 2.802
5000
4500
4000
3500
3000

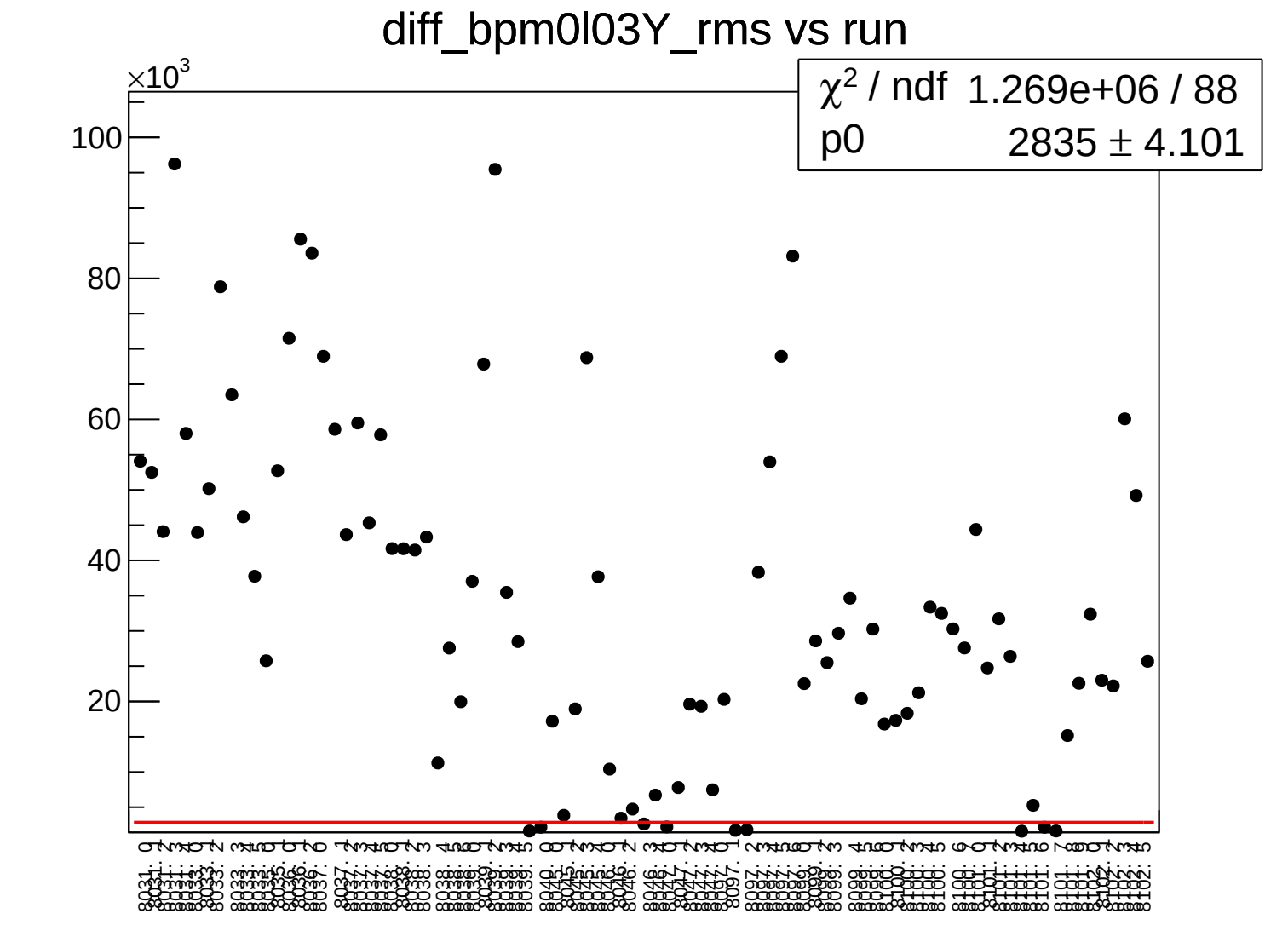

diff_bpm0l03X_mean vs run
$\chi^2$ / ndf 68.79 / 88
p0 7.488 ± 6.127
pull
Entries 89
Mean −104.9
Std Dev 0

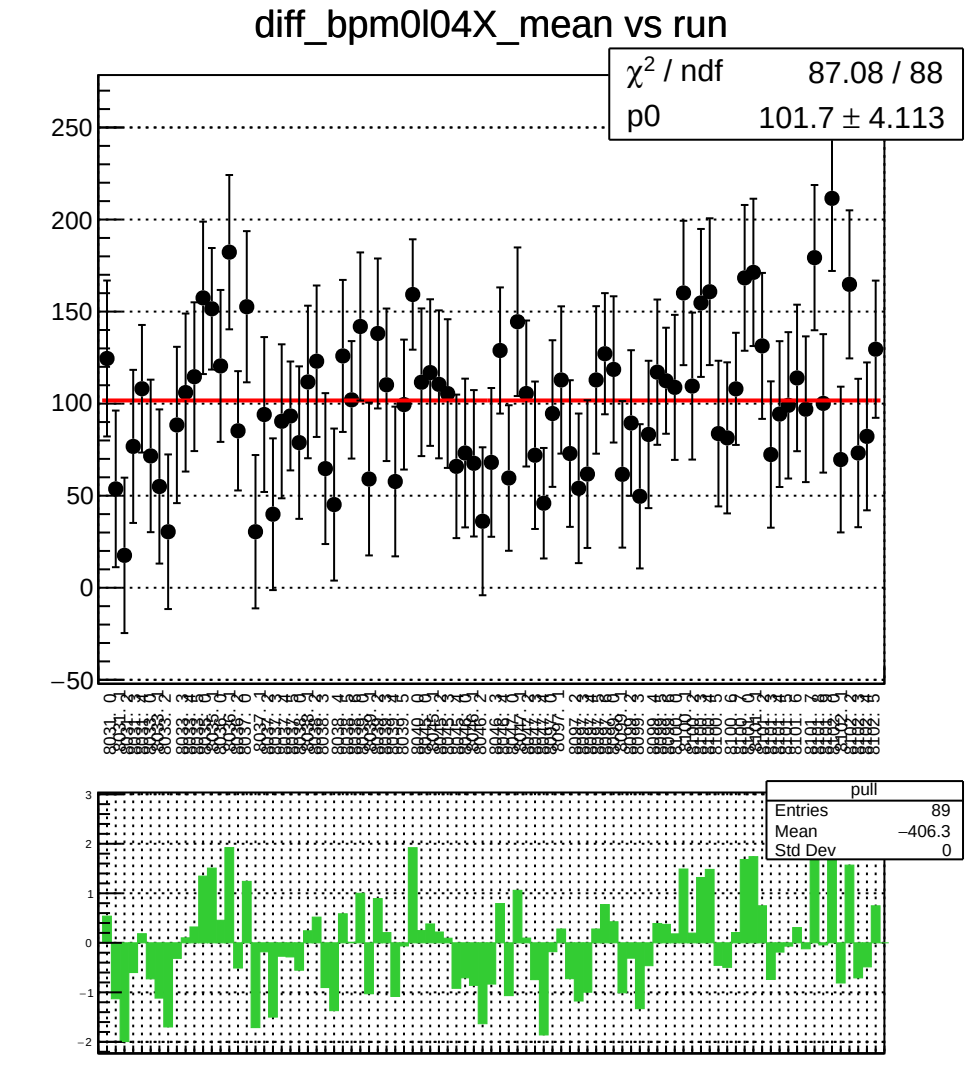

pull1D
Entries 89
Mean 0.008606
Std Dev 0.8791

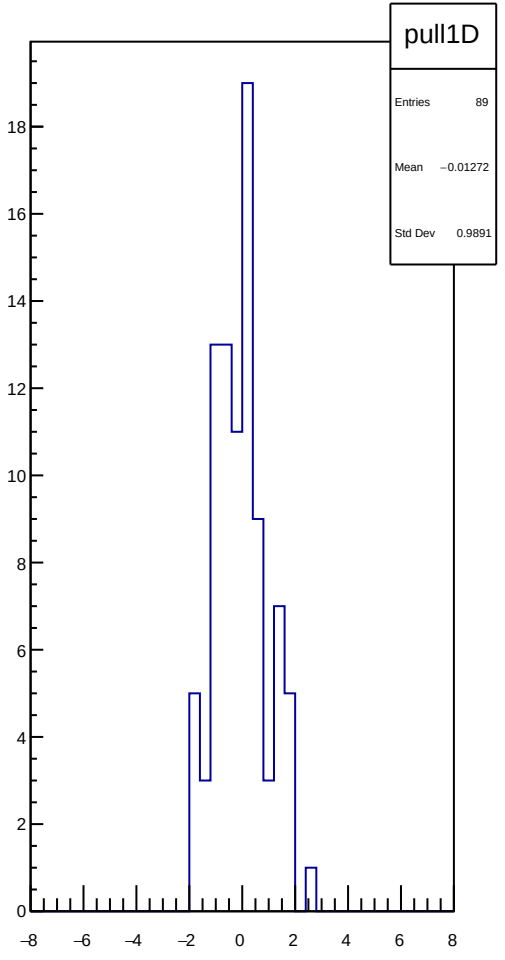

diff_bpm0l03X_rms vs run
×10^3
χ^2 / ndf 1.25e+06 / 88
p0 3056 ± 4.333
100
80
60
40
20

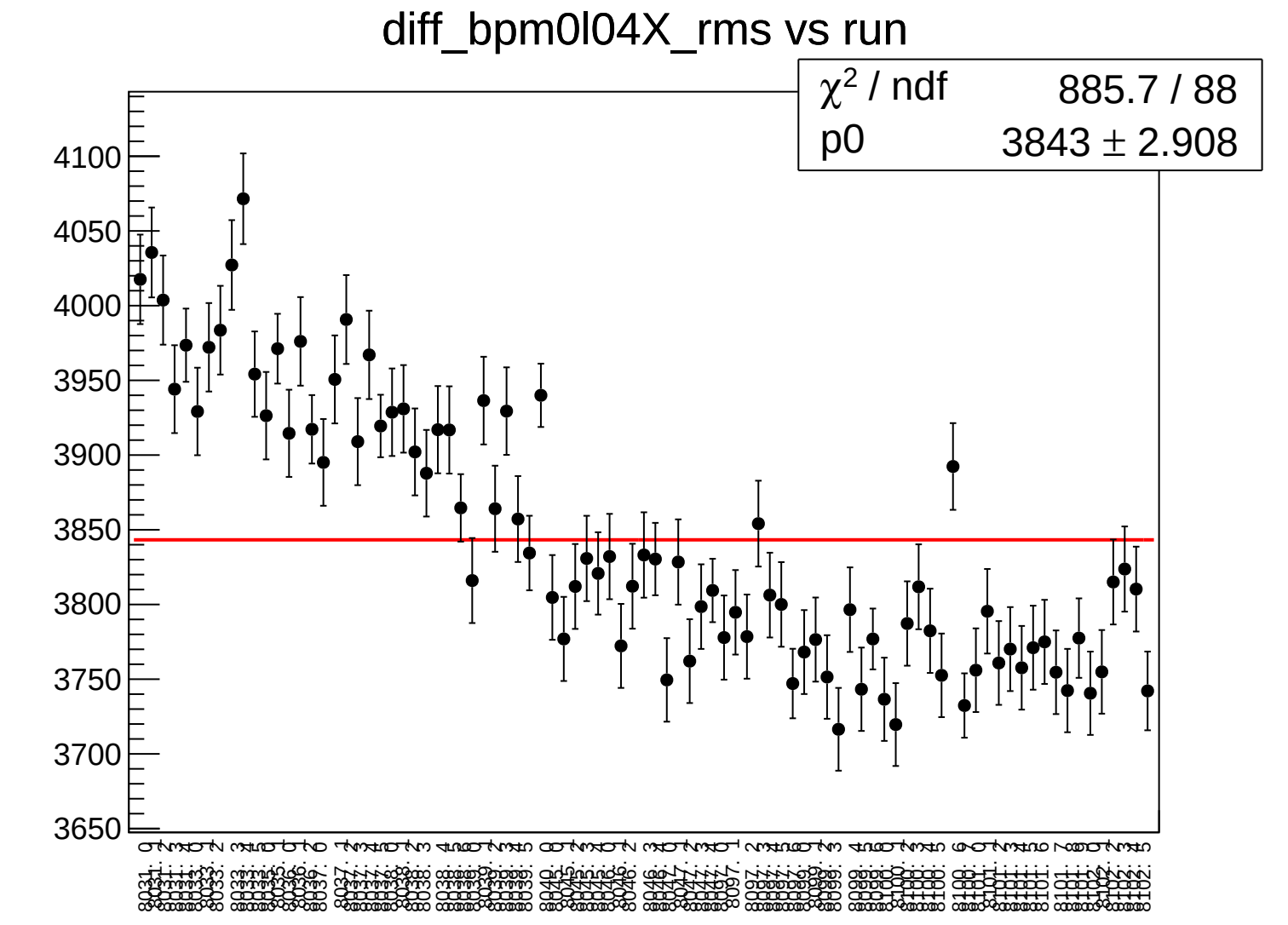

diff_bpm0l03Y_mean vs run
χ² / ndf 97.75 / 88
p0 −30.49 ± 5.799
pull
Entries 89
Mean 57.09
Std Dev 37.44

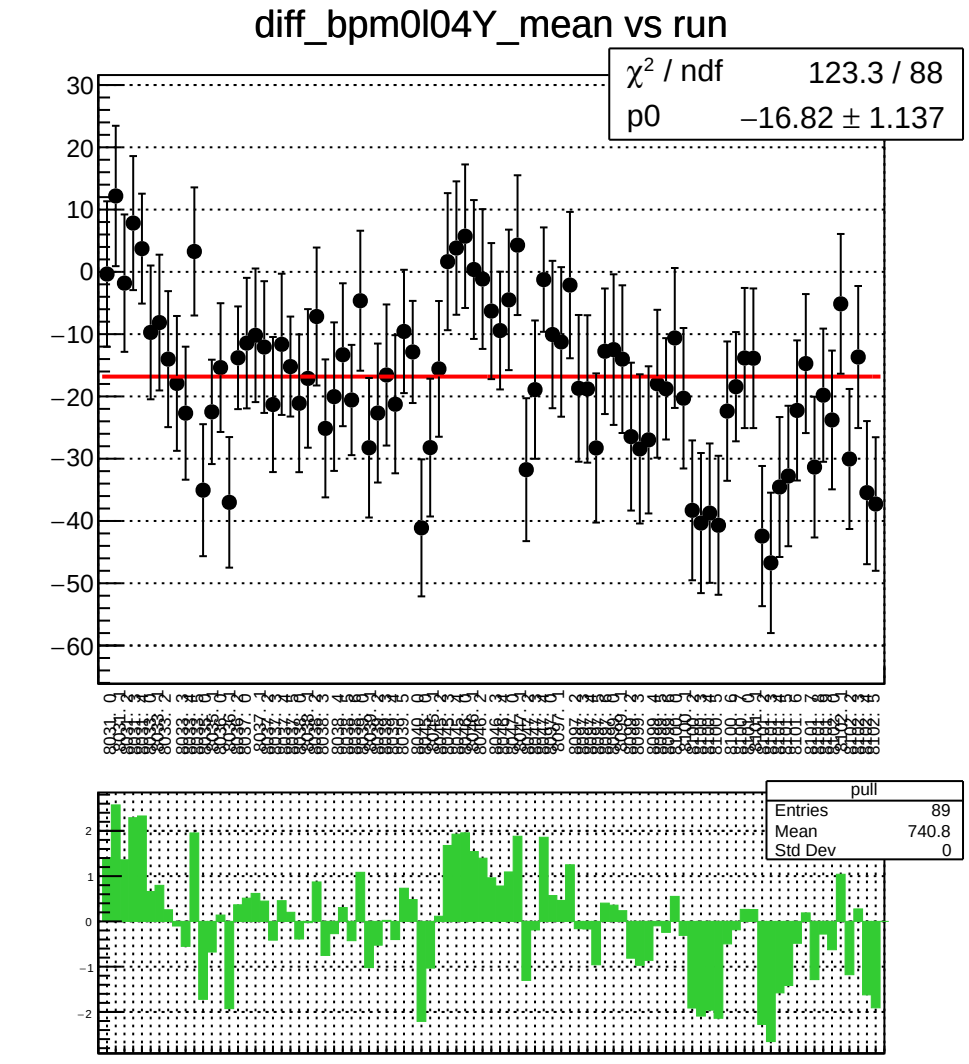

pull1D
Entries 89
Mean −0.06349
Std Dev 1.046

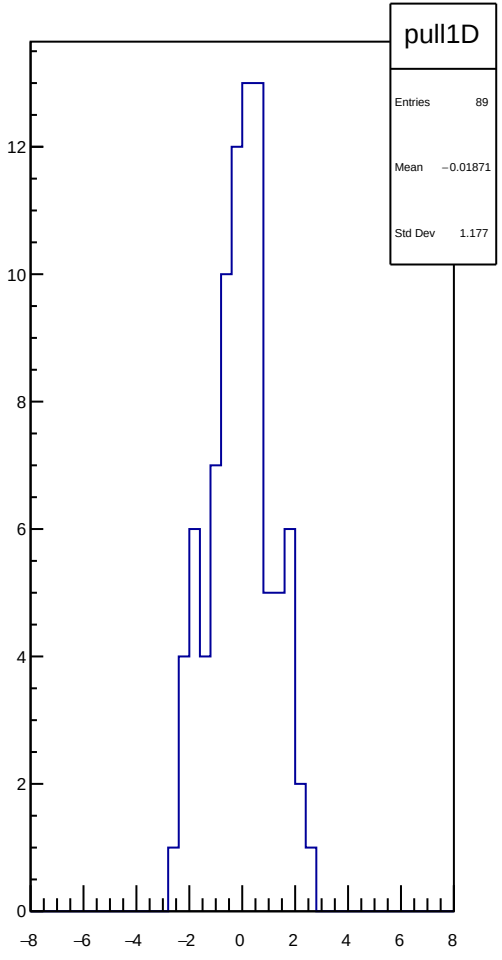

diff_bpm0l03Y_rms vs run
×10^3
χ^2 / ndf 1.269e+06 / 88
p0 2835 ± 4.101
100
80
60
40
20

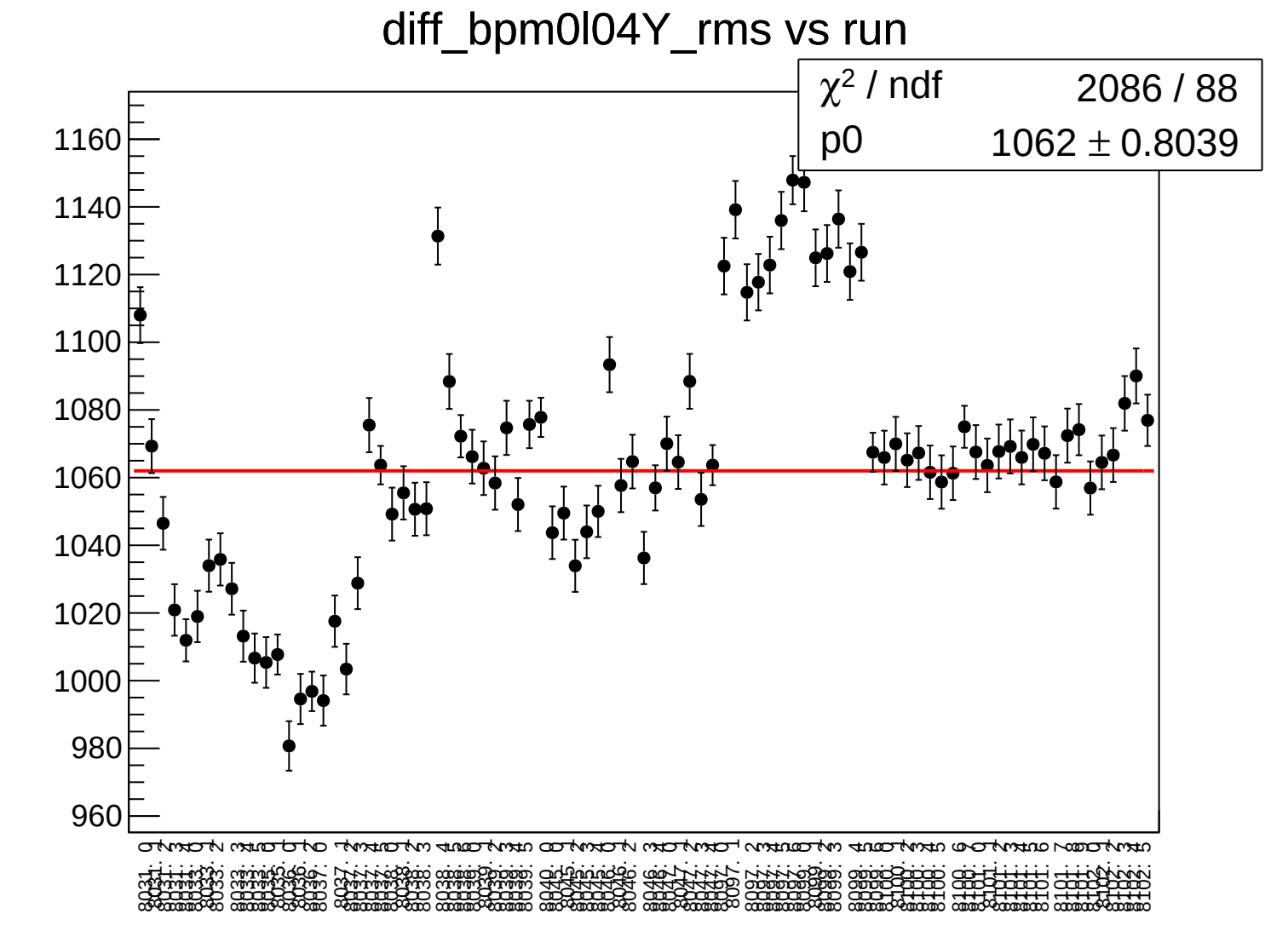

diff_bpm0l04X_mean vs run
$\chi^2$ / ndf 87.08 / 88
p0 101.7 ± 4.113
pull
Entries 89
Mean −406.3
Std Dev 0

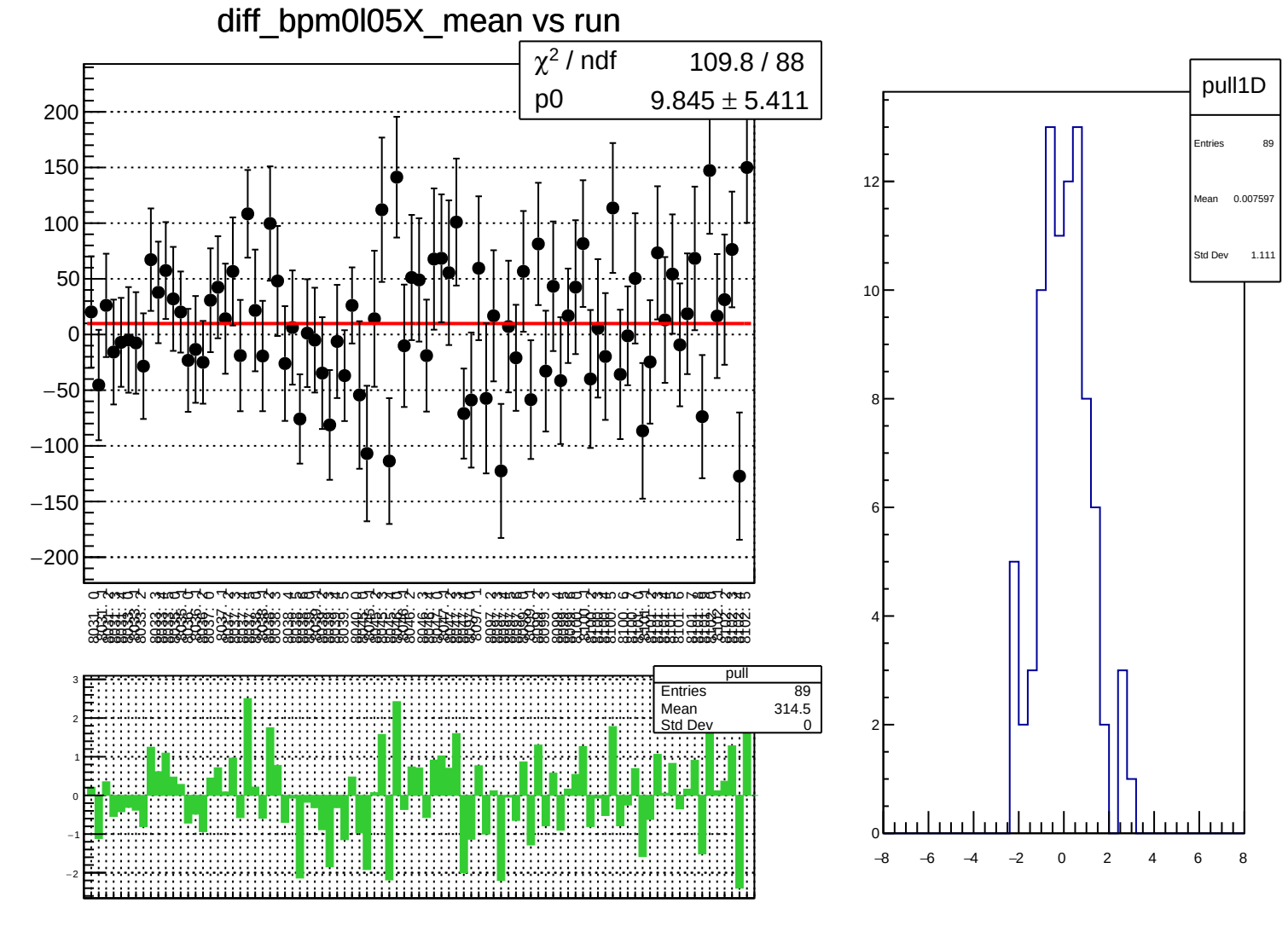

pull1D
Entries 89
Mean −0.01272
Std Dev 0.9891

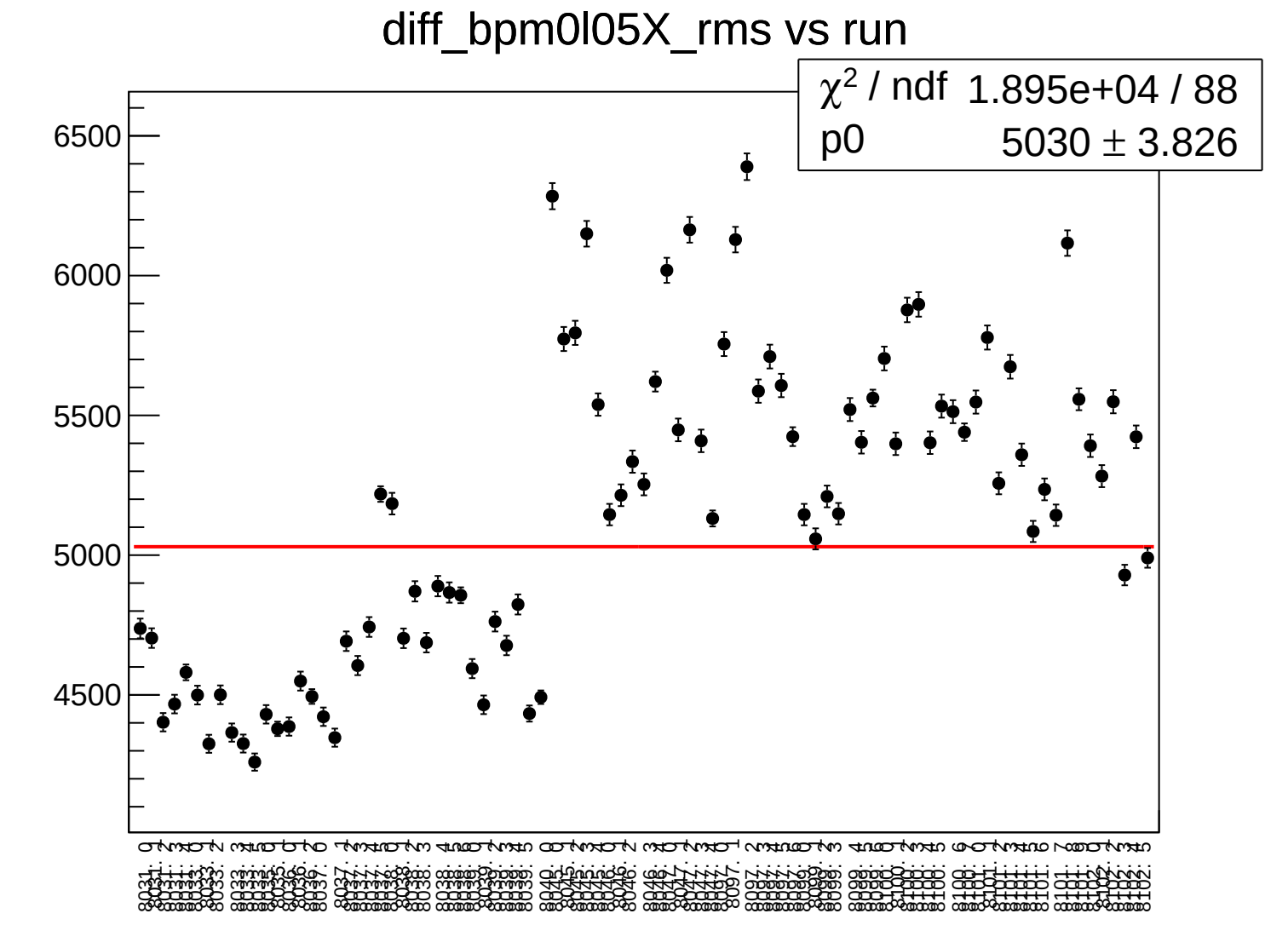

diff_bpm0l04X_rms vs run
χ² / ndf 885.7 / 88
p0 3843 ± 2.908
4100
4050
4000
3950
3900
3850
3800
3750
3700
3650

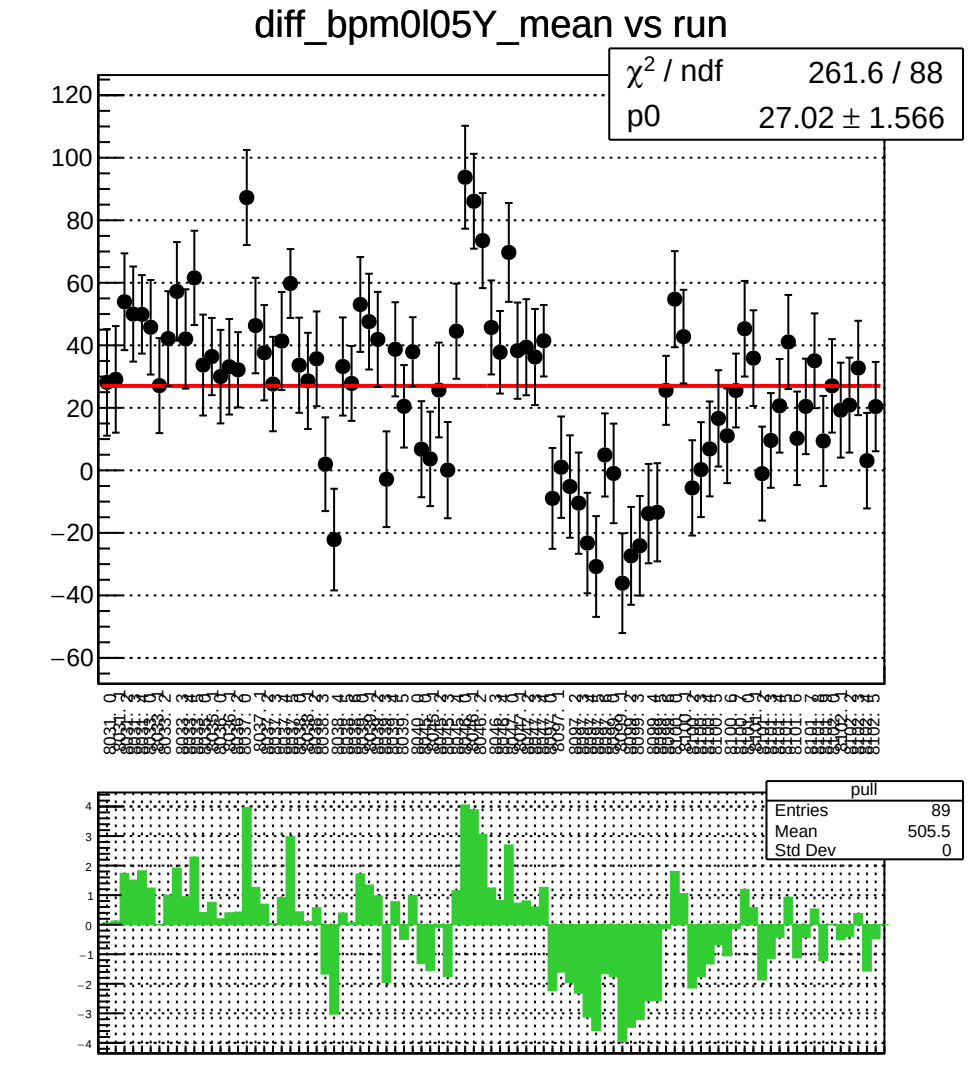

diff_bpm0l04Y_mean vs run
χ² / ndf 123.3 / 88
p0 −16.82 ± 1.137
pull
Entries 89
Mean 740.8
Std Dev 0

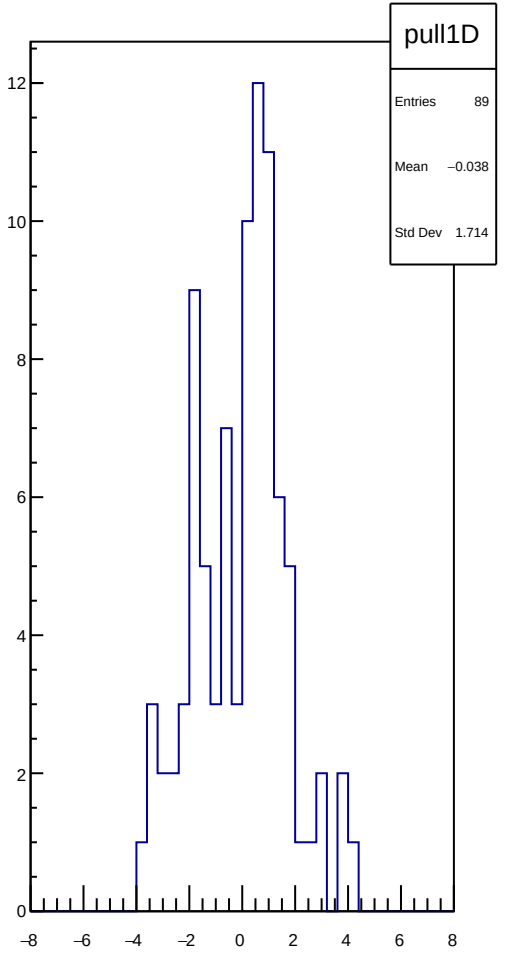

pull1D
Entries 89
Mean −0.01871
Std Dev 1.177

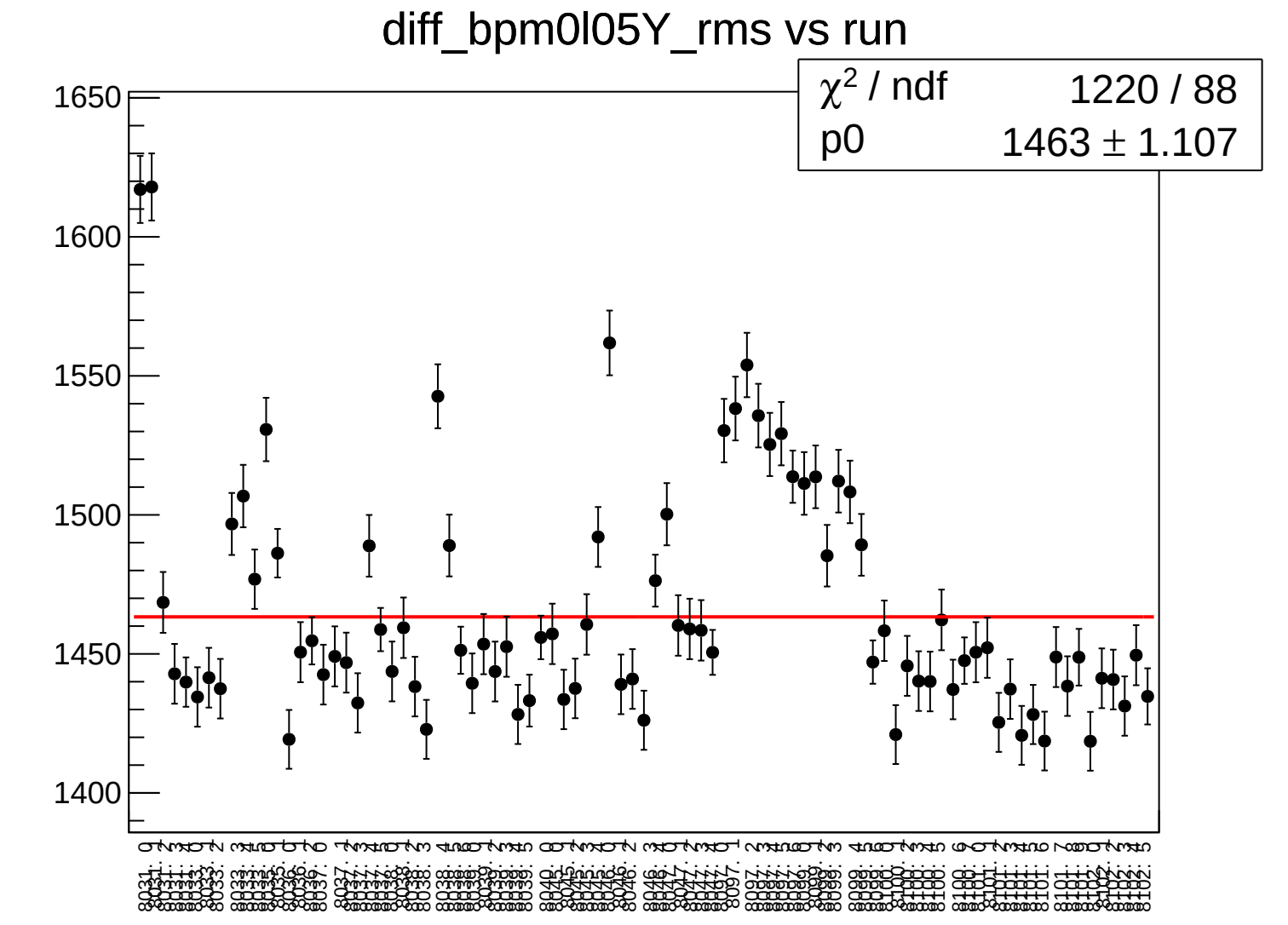

diff_bpm0l04Y_rms vs run
χ² / ndf 2086 / 88
p0 1062 ± 0.8039
1160
1140
1120
1100
1080
1060
1040
1020
1000
980
960

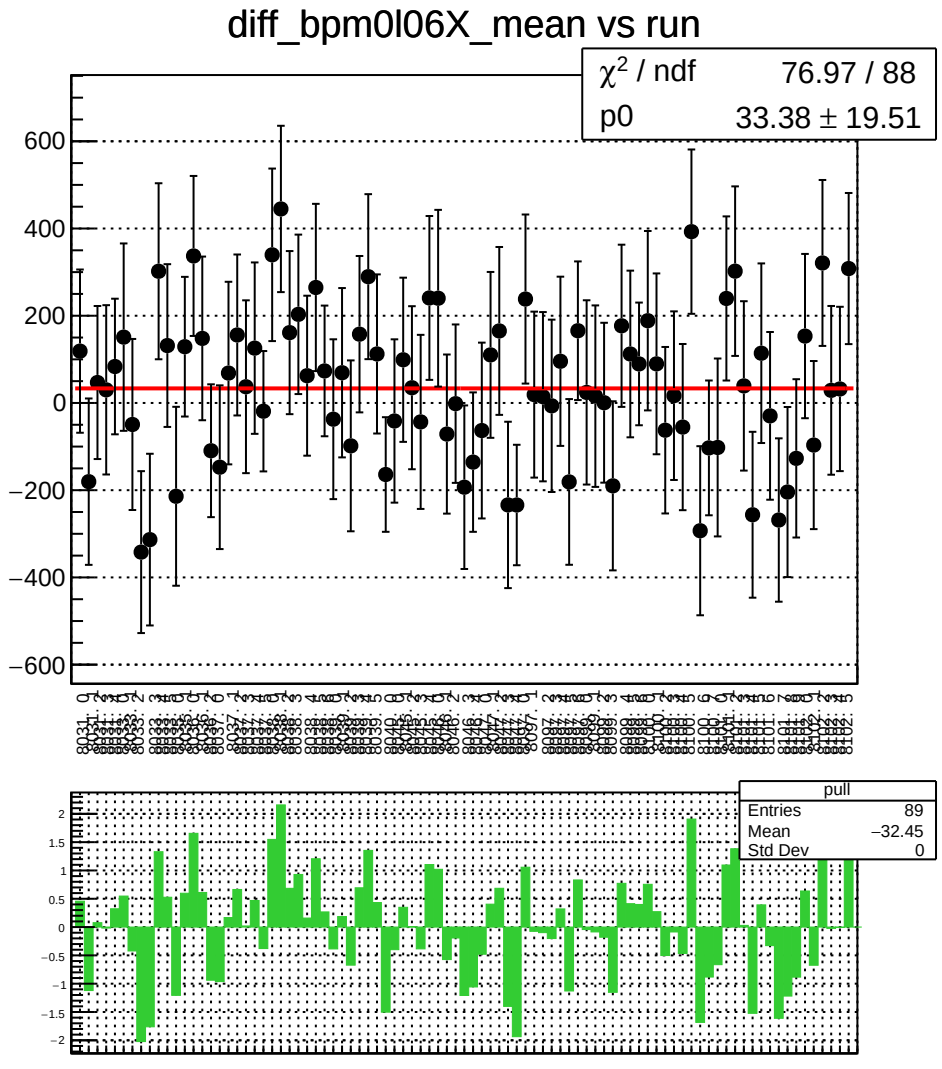

diff_bpm0l05X_mean vs run
χ² / ndf 109.8 / 88
p0 9.845 ± 5.411
pull
Entries 89
Mean 314.5
Std Dev 0
pull1D
Entries 89
Mean 0.007597
Std Dev 1.111

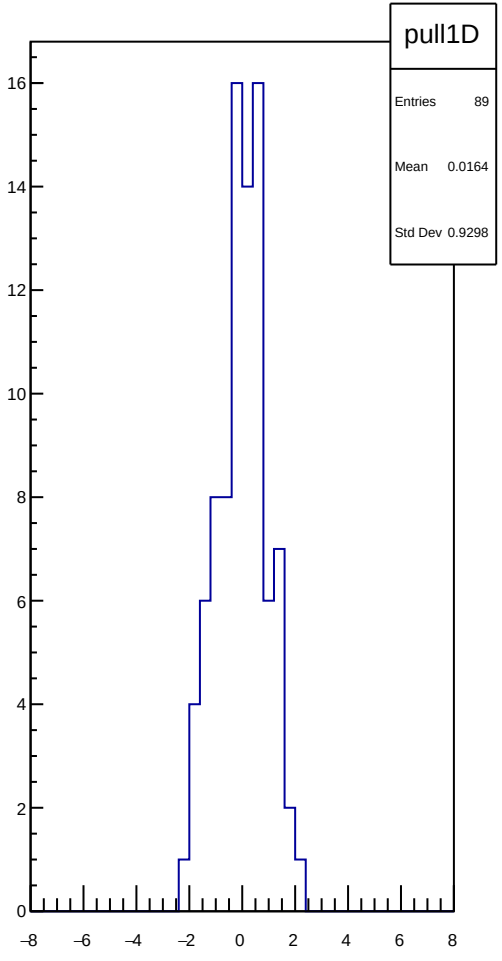

diff_bpm0l05X_rms vs run
$\chi^2$ / ndf 1.895e+04 / 88
p0 5030 ± 3.826
6500
6000
5500
5000
4500

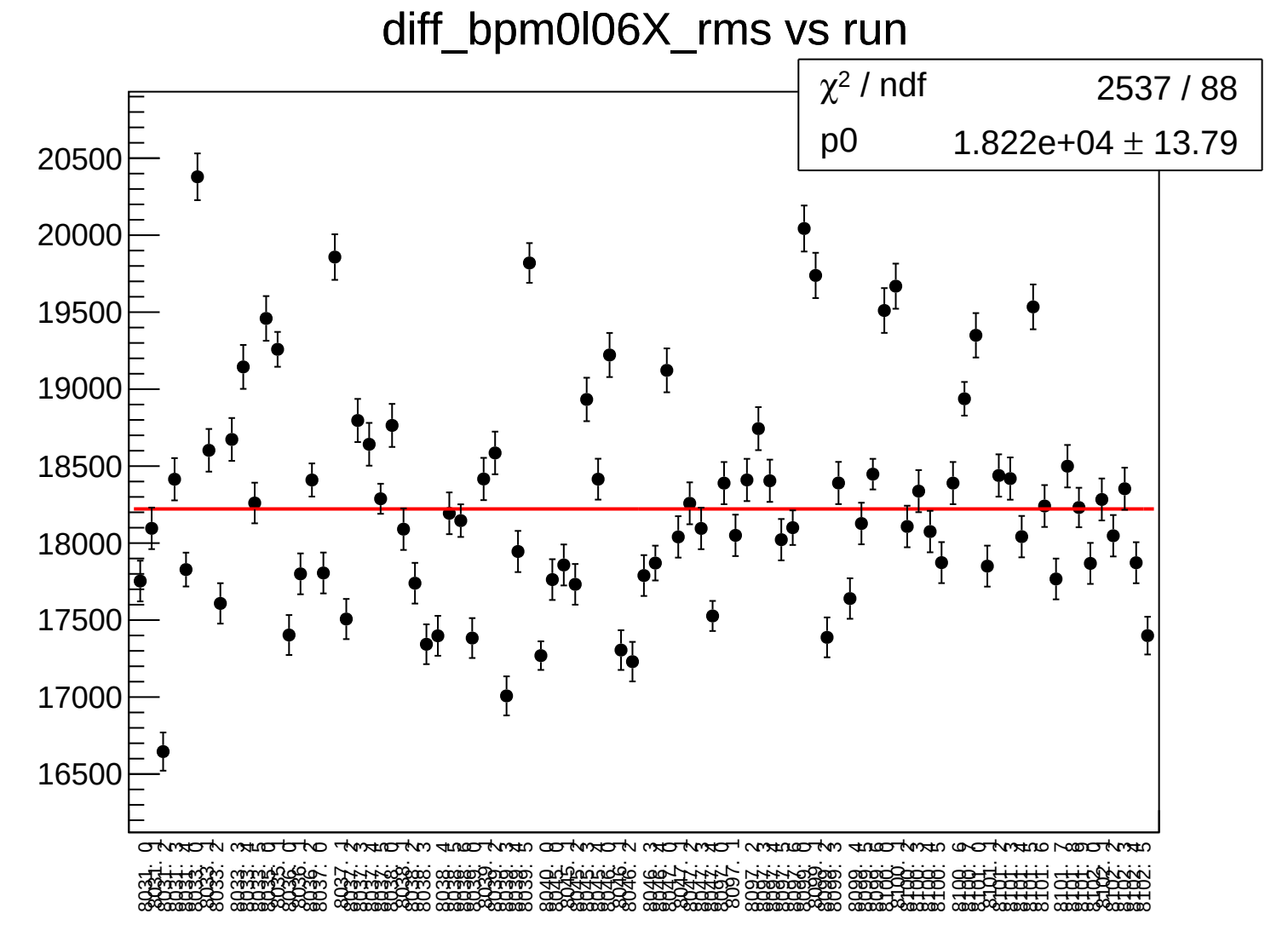

diff_bpm0l05Y_mean vs run
$\chi^2$ / ndf 261.6 / 88
p0 27.02 ± 1.566
pull
Entries 89
Mean 505.5
Std Dev 0

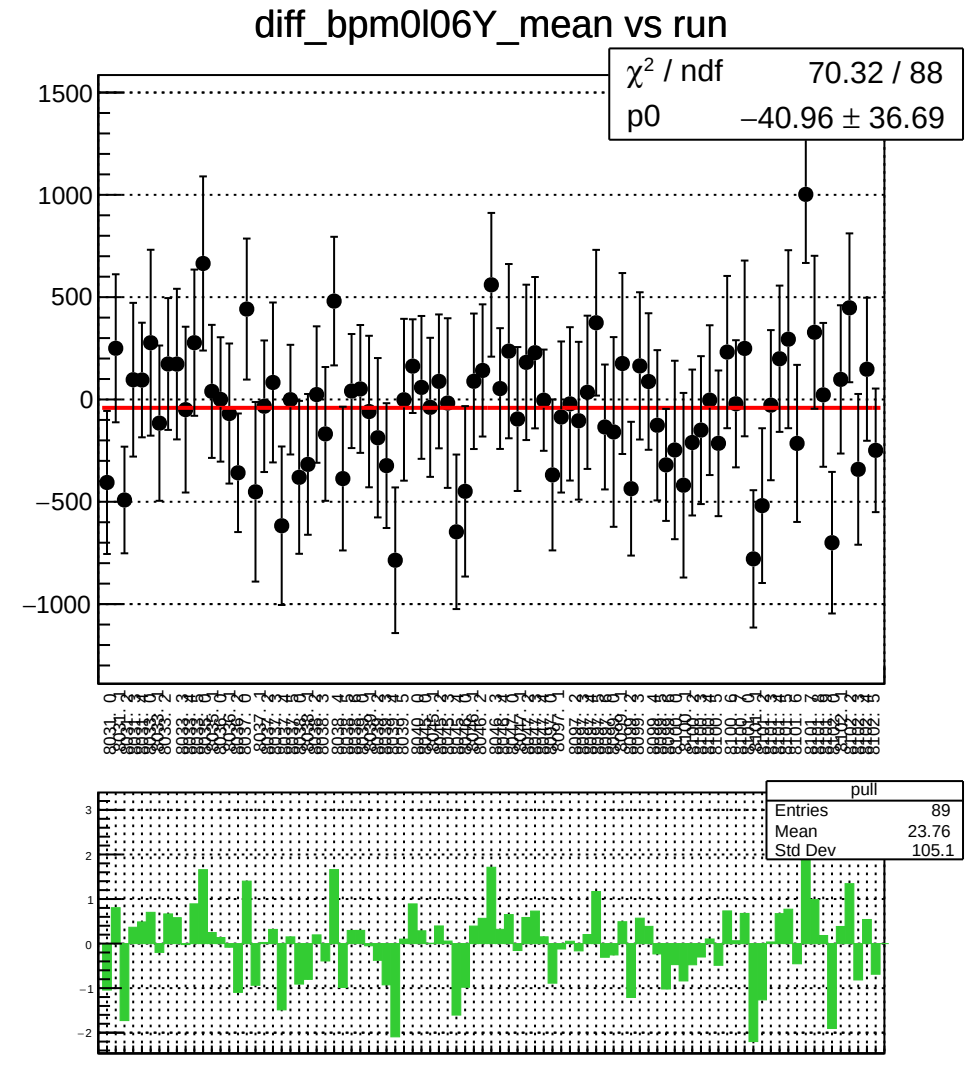

pull1D
Entries 89
Mean −0.038
Std Dev 1.714

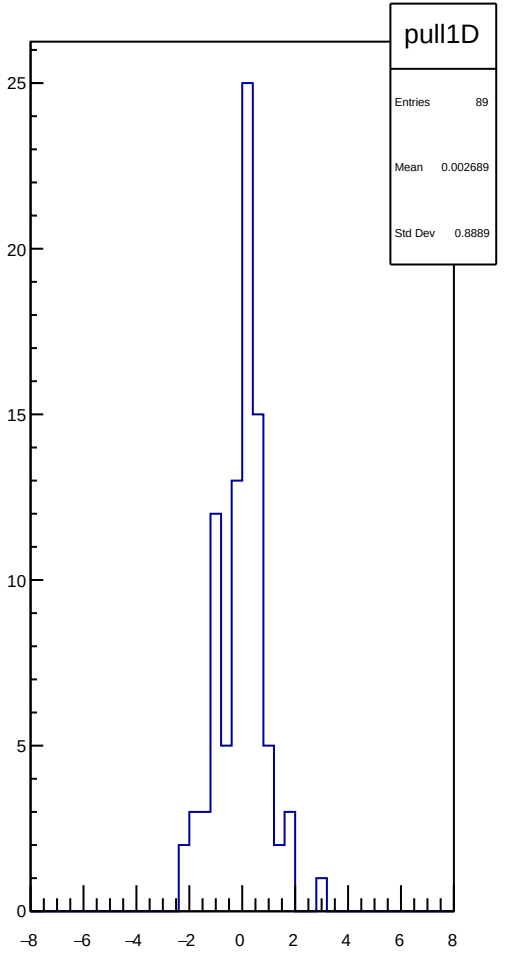

diff_bpm0l05Y_rms vs run
χ² / ndf 1220 / 88
p0 1463 ± 1.107
1650
1600
1550
1500
1450
1400

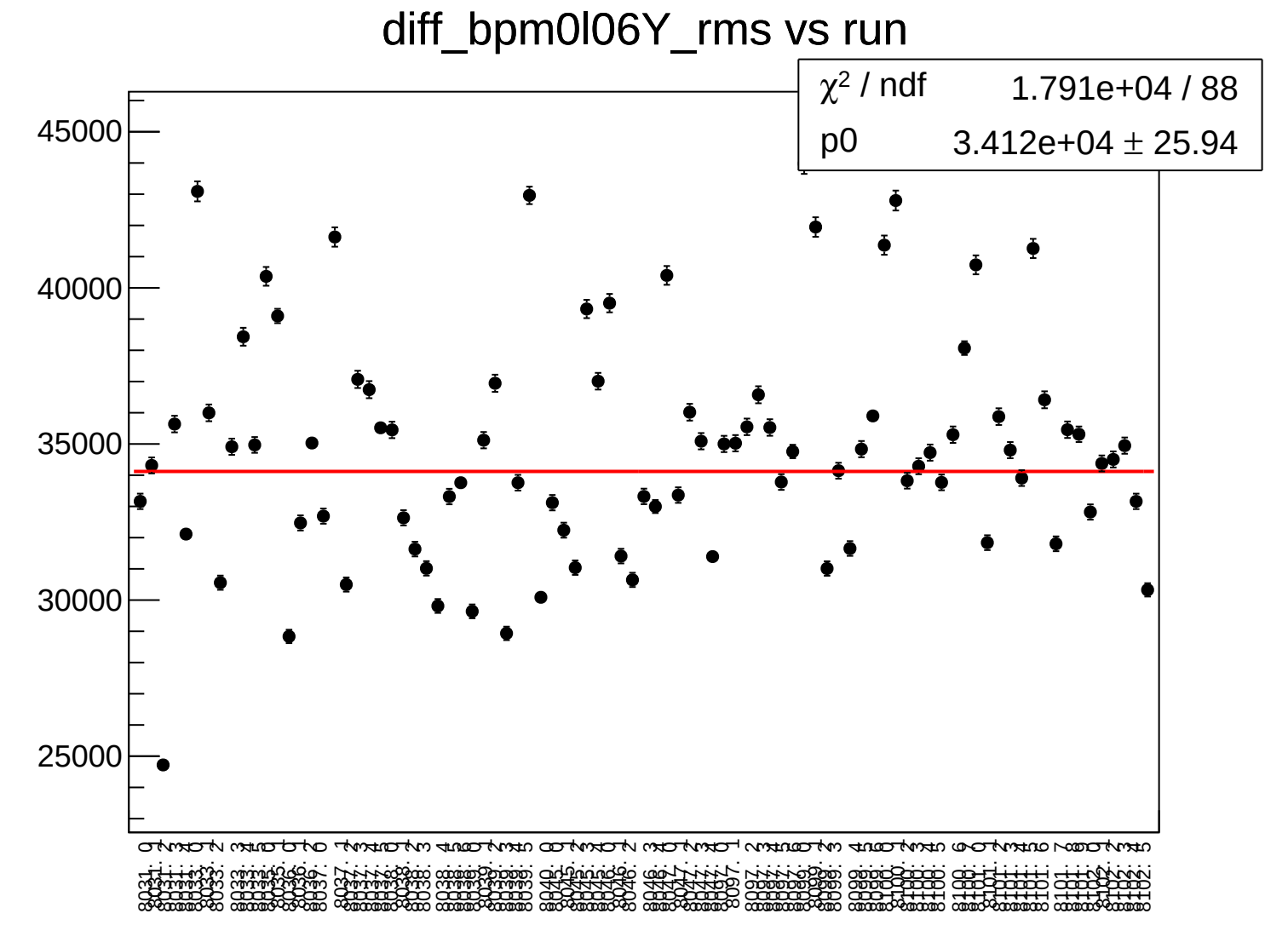

diff_bpm0l06X_mean vs run
$\chi^2$ / ndf 76.97 / 88
p0 33.38 ± 19.51
pull
Entries 89
Mean −32.45
Std Dev 0

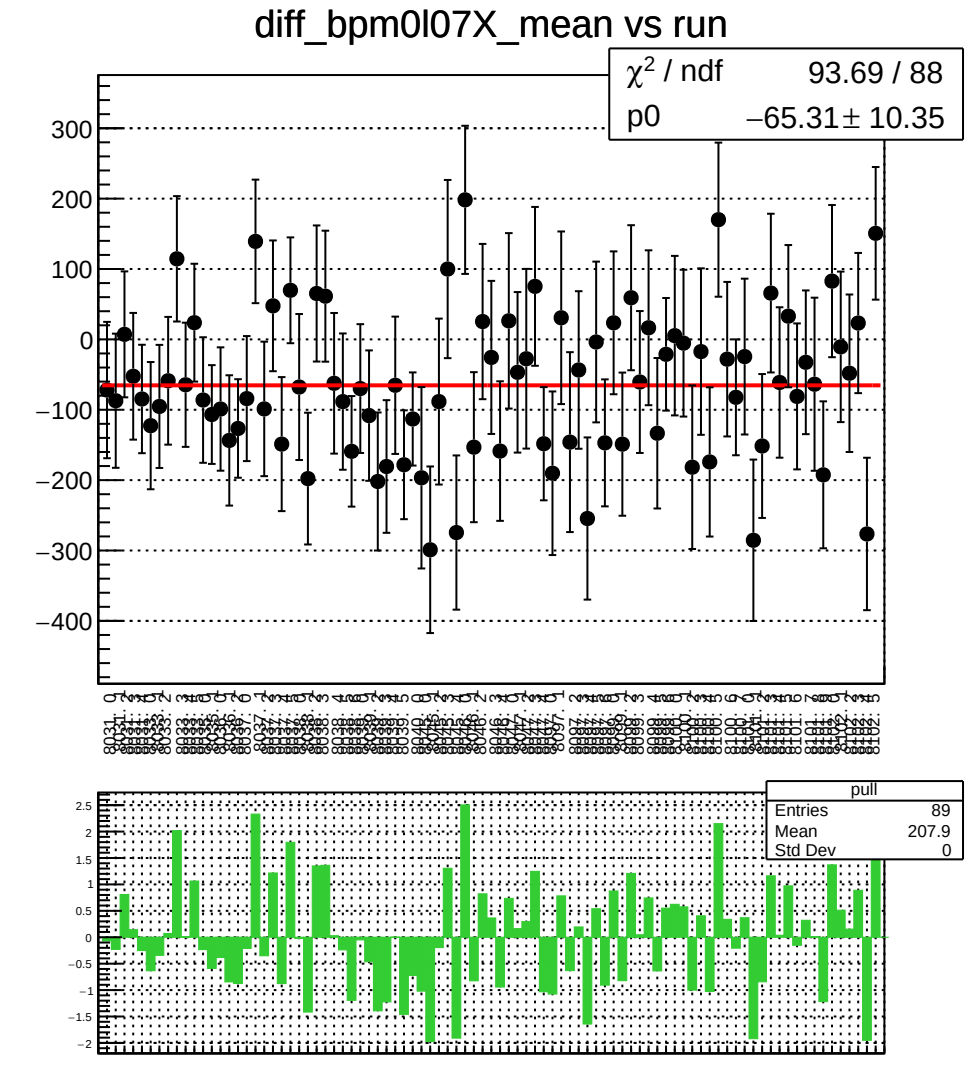

pull1D
Entries 89
Mean 0.0164
Std Dev 0.9298

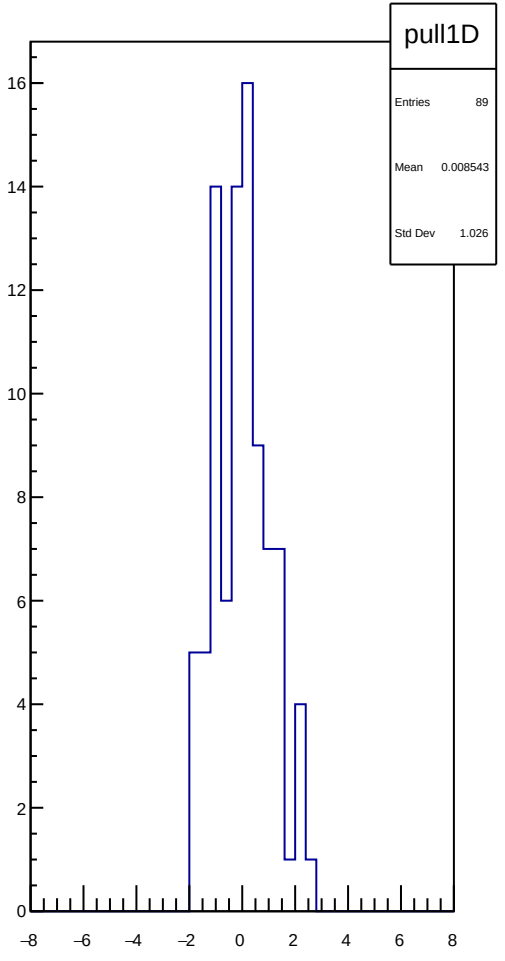

diff_bpm0l06X_rms vs run
χ² / ndf 2537 / 88
p0 1.822e+04 ± 13.79
20500
20000
19500
19000
18500
18000
17500
17000
16500

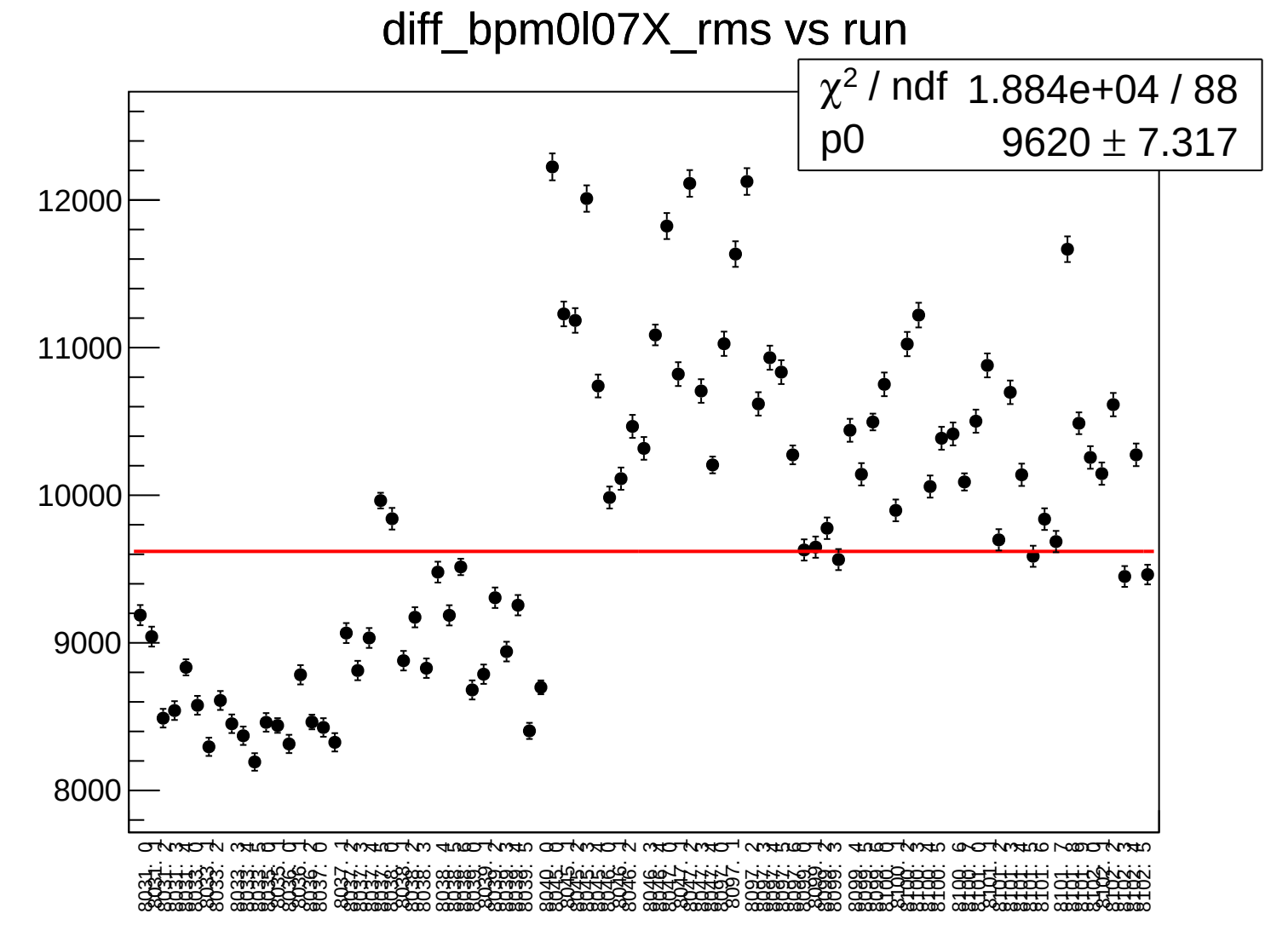

diff_bpm0l06Y_mean vs run
χ² / ndf 70.32 / 88
p0 −40.96 ± 36.69
1500
1000
500
0
−500
−1000
pull
Entries 89
Mean 23.76
Std Dev 105.1
3
2
1
0
−1
−2

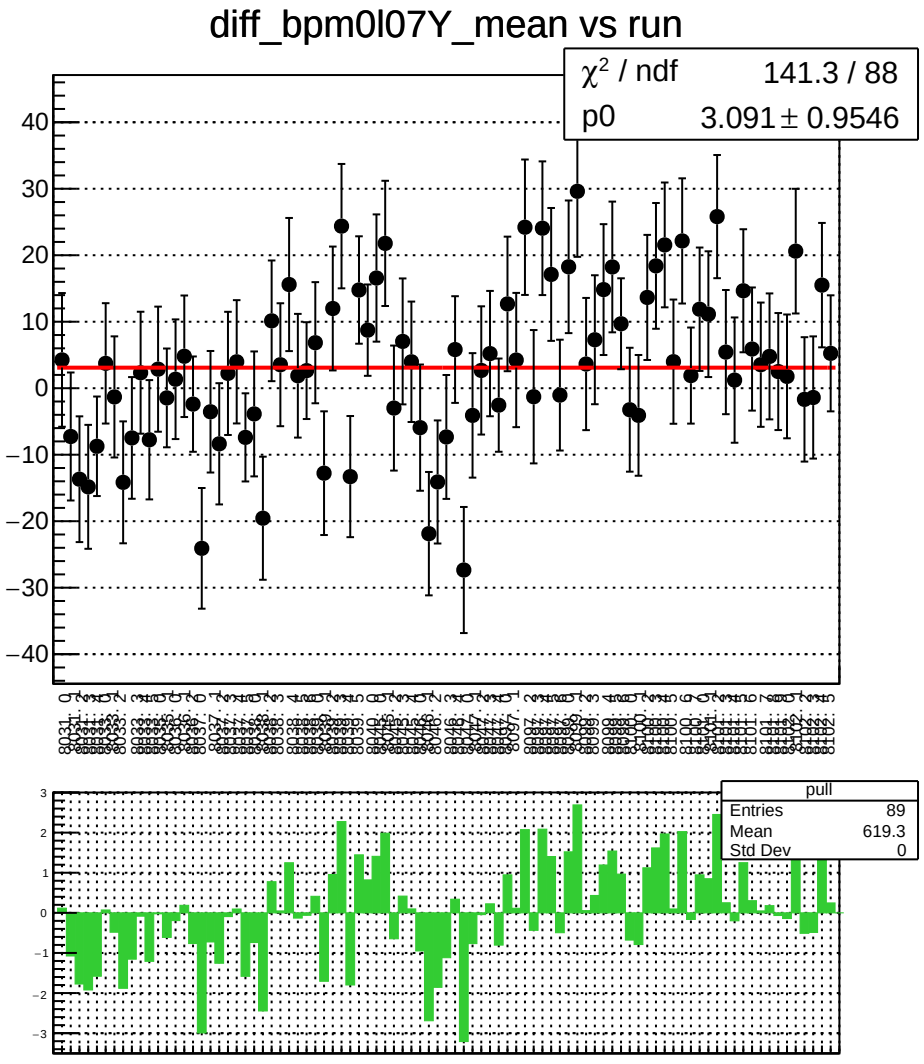

pull1D
Entries 89
Mean 0.002689
Std Dev 0.8889
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

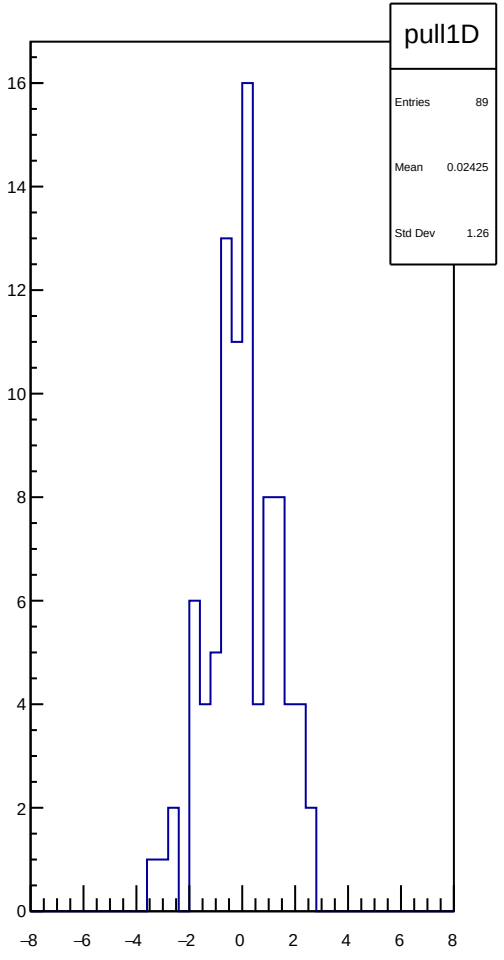

diff_bpm0l06Y_rms vs run
χ² / ndf 1.791e+04 / 88
p0 3.412e+04 ± 25.94
45000
40000
35000
30000
25000

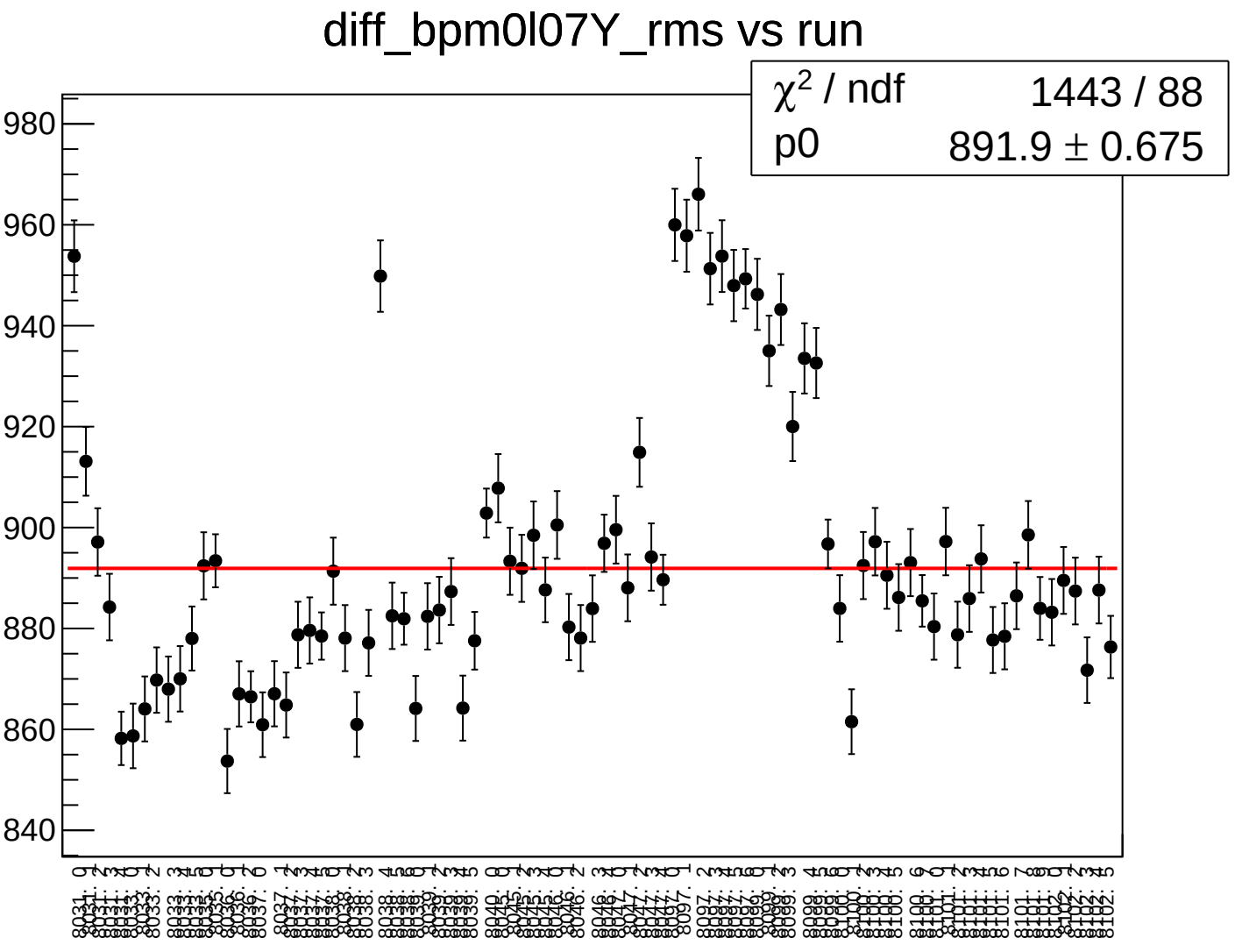

diff_bpm0l07X_mean vs run
χ² / ndf 93.69 / 88
p0 −65.31 ± 10.35
pull
Entries 89
Mean 207.9
Std Dev 0

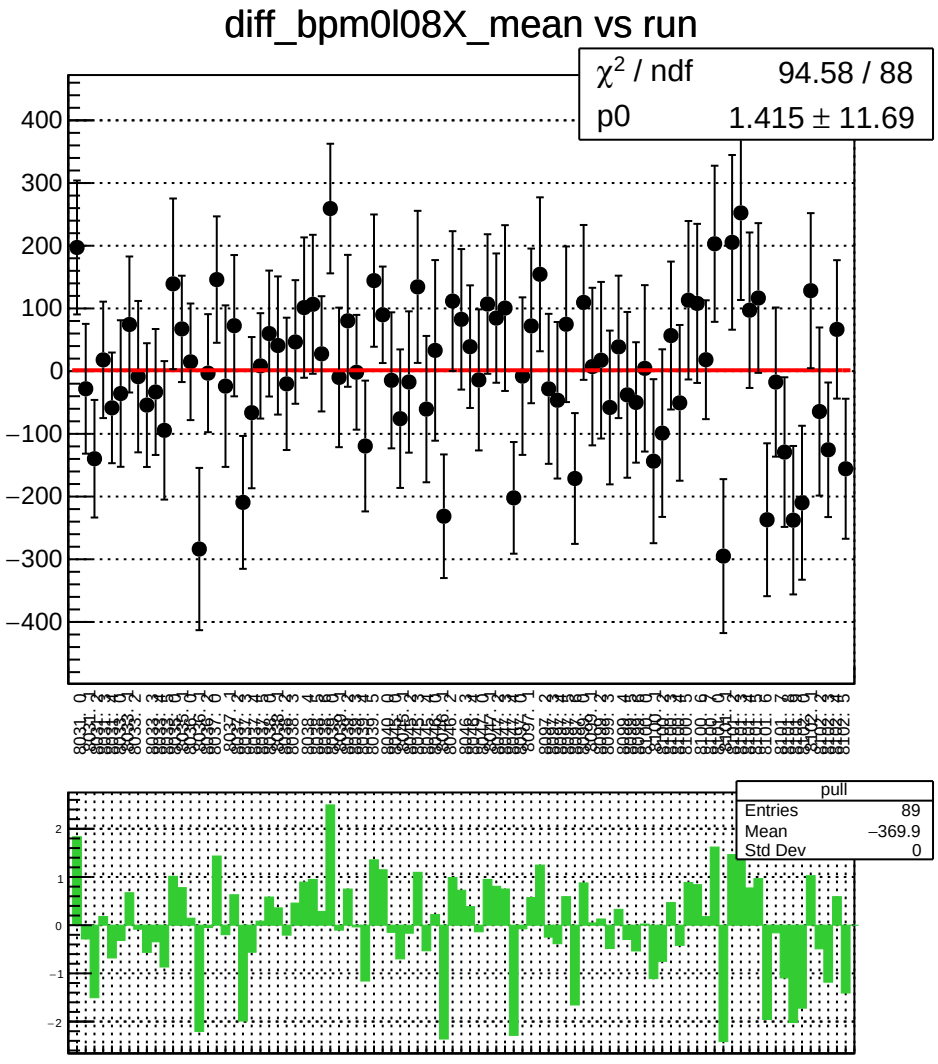

pull1D
Entries 89
Mean 0.008543
Std Dev 1.026

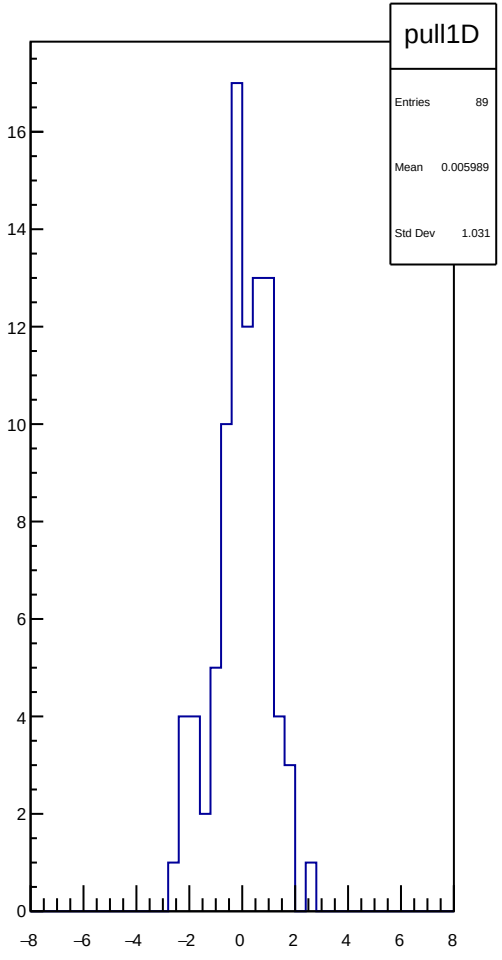

diff_bpm0l07X_rms vs run
χ² / ndf 1.884e+04 / 88
p0 9620 ± 7.317
12000
11000
10000
9000
8000

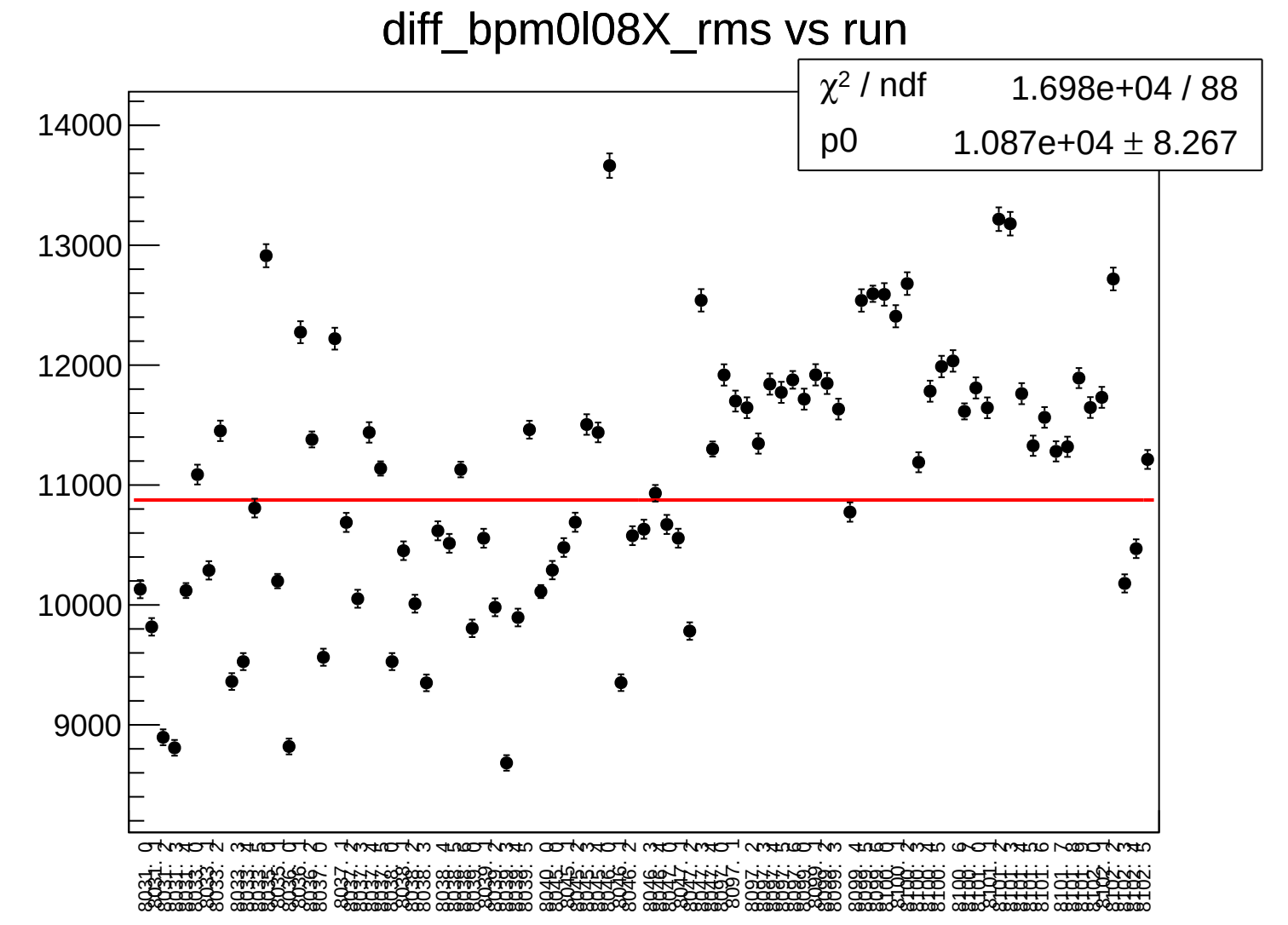

diff_bpm0l07Y_mean vs run
χ² / ndf 141.3 / 88
p0 3.091 ± 0.9546
pull
Entries 89
Mean 619.3
Std Dev 0

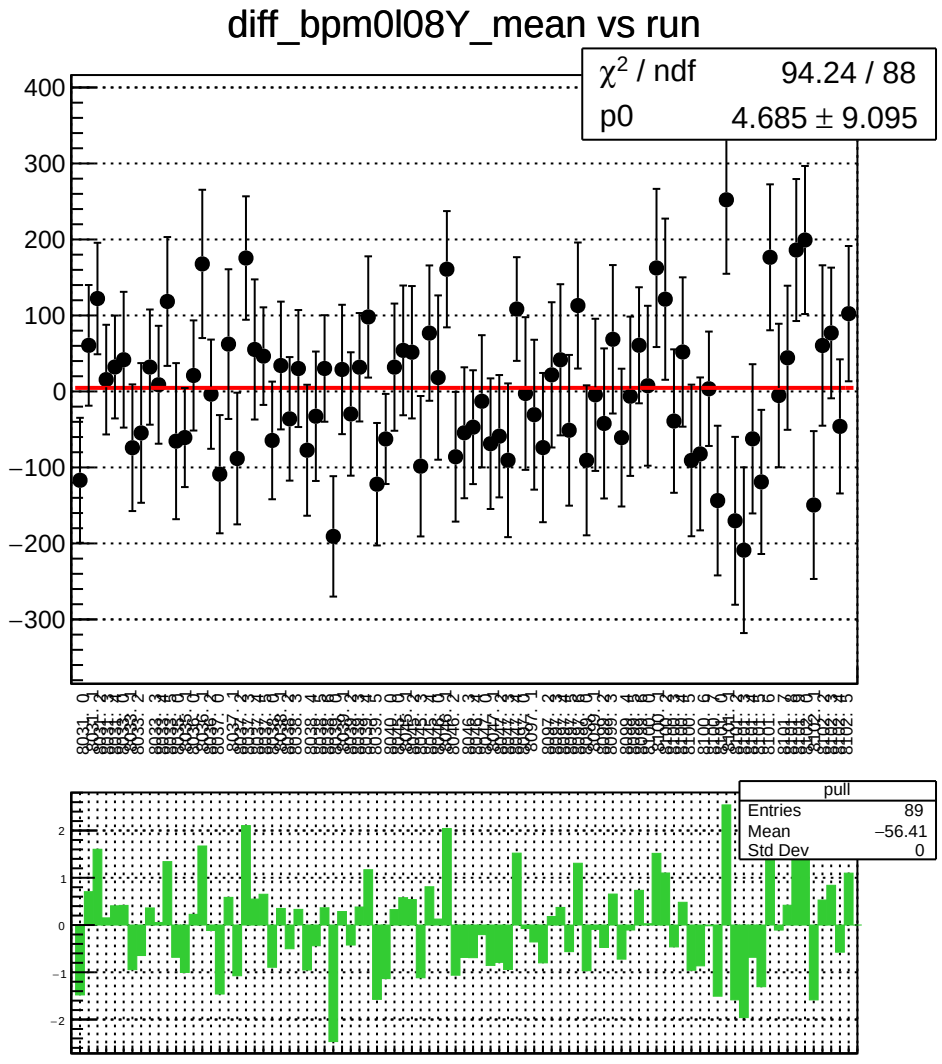

pull1D
Entries 89
Mean 0.02425
Std Dev 1.26

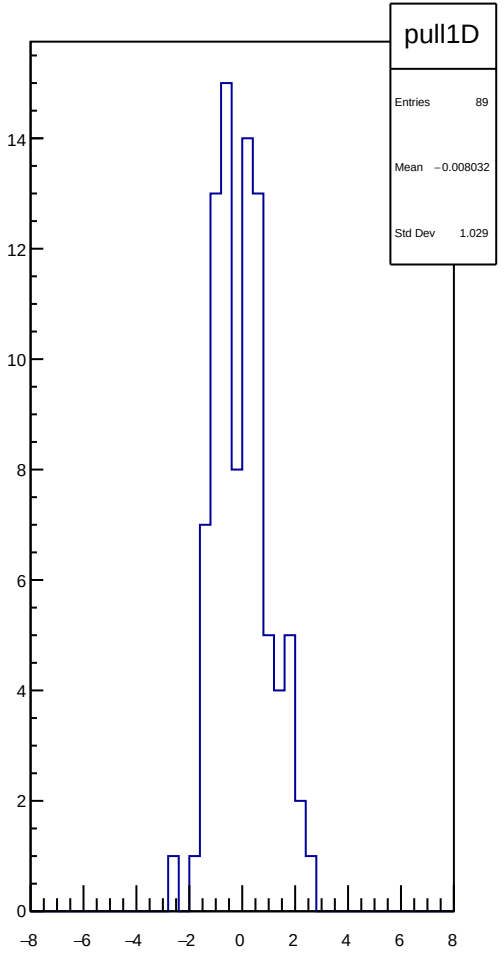

diff_bpm0l07Y_rms vs run
χ² / ndf 1443 / 88
p0 891.9 ± 0.675
980
960
940
920
900
880
860
840

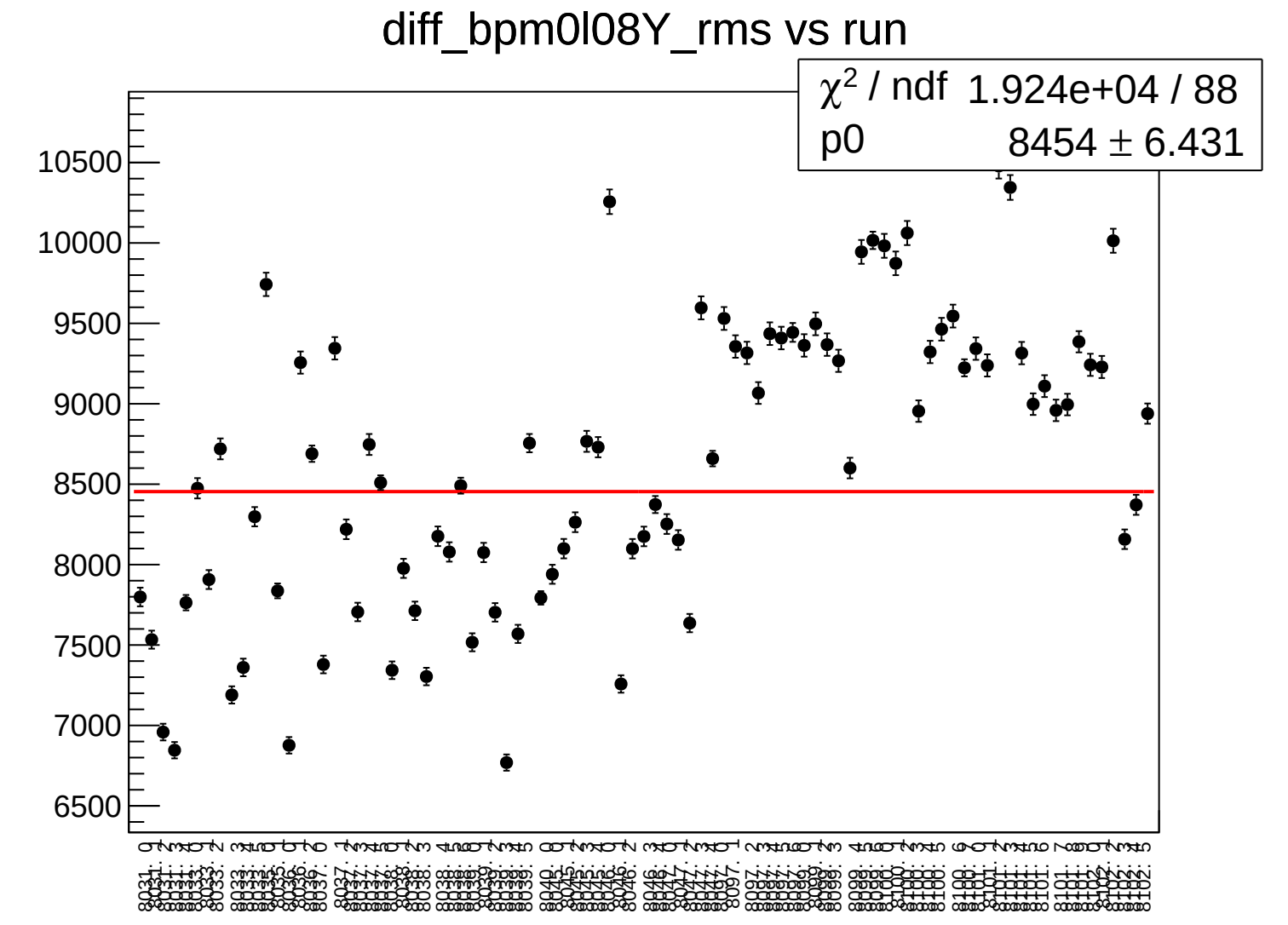

diff_bpm0l08X_mean vs run
$\chi^2$ / ndf 94.58 / 88
p0 1.415 ± 11.69
pull
Entries 89
Mean −369.9
Std Dev 0

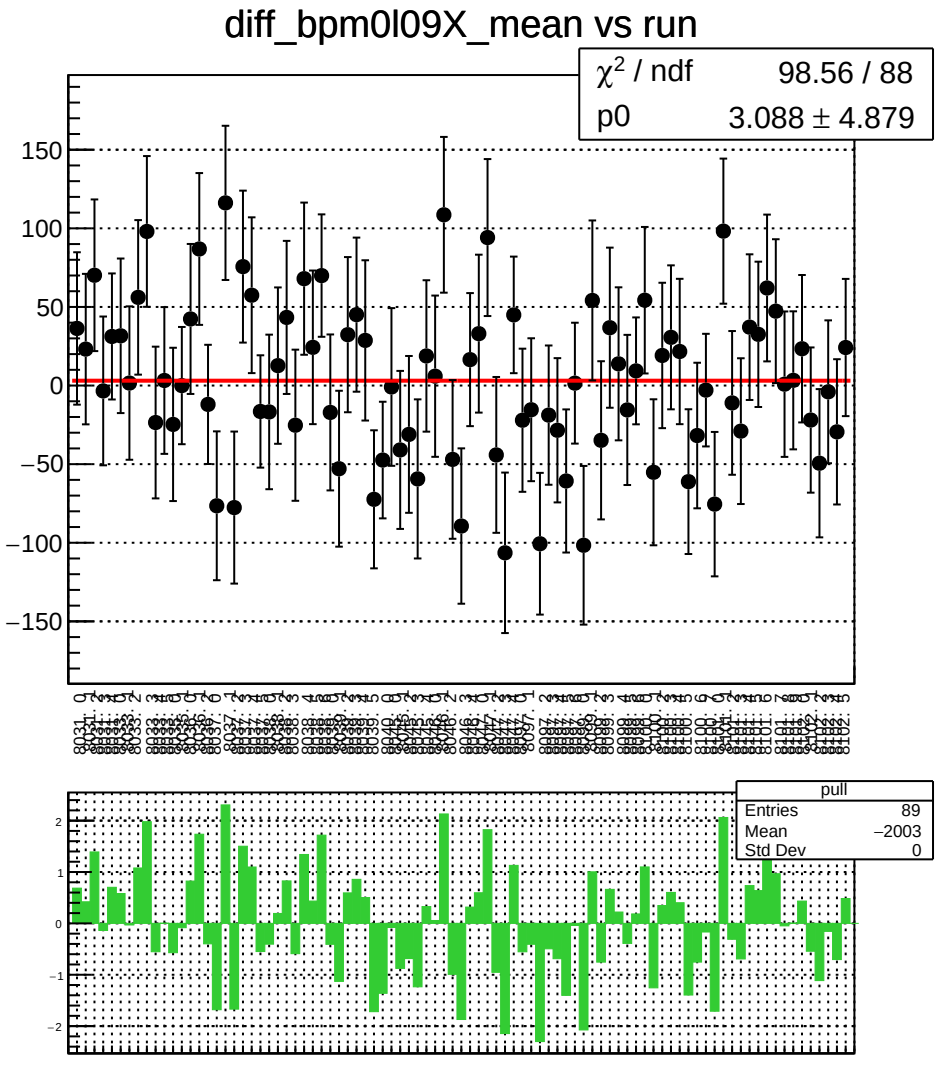

pull1D
Entries 89
Mean 0.005989
Std Dev 1.031

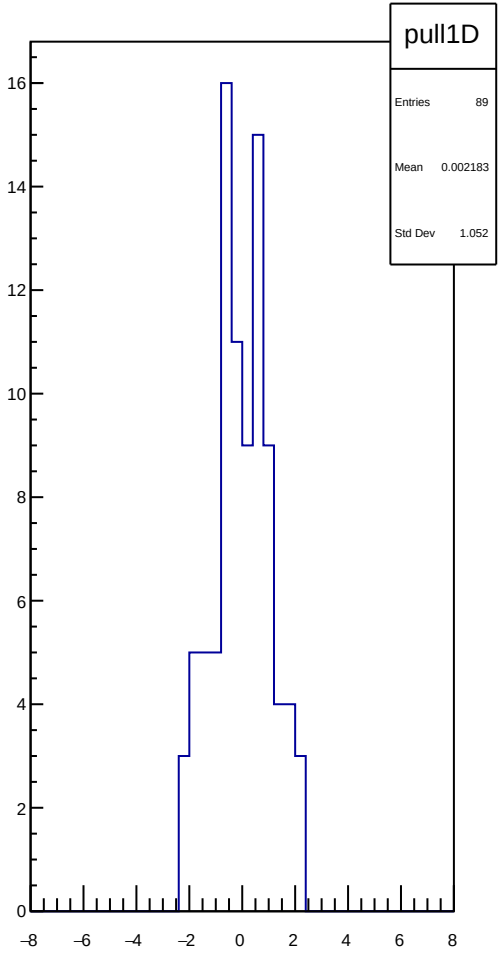

diff_bpm0l08X_rms vs run
χ² / ndf 1.698e+04 / 88
p0 1.087e+04 ± 8.267
14000
13000
12000
11000
10000
9000

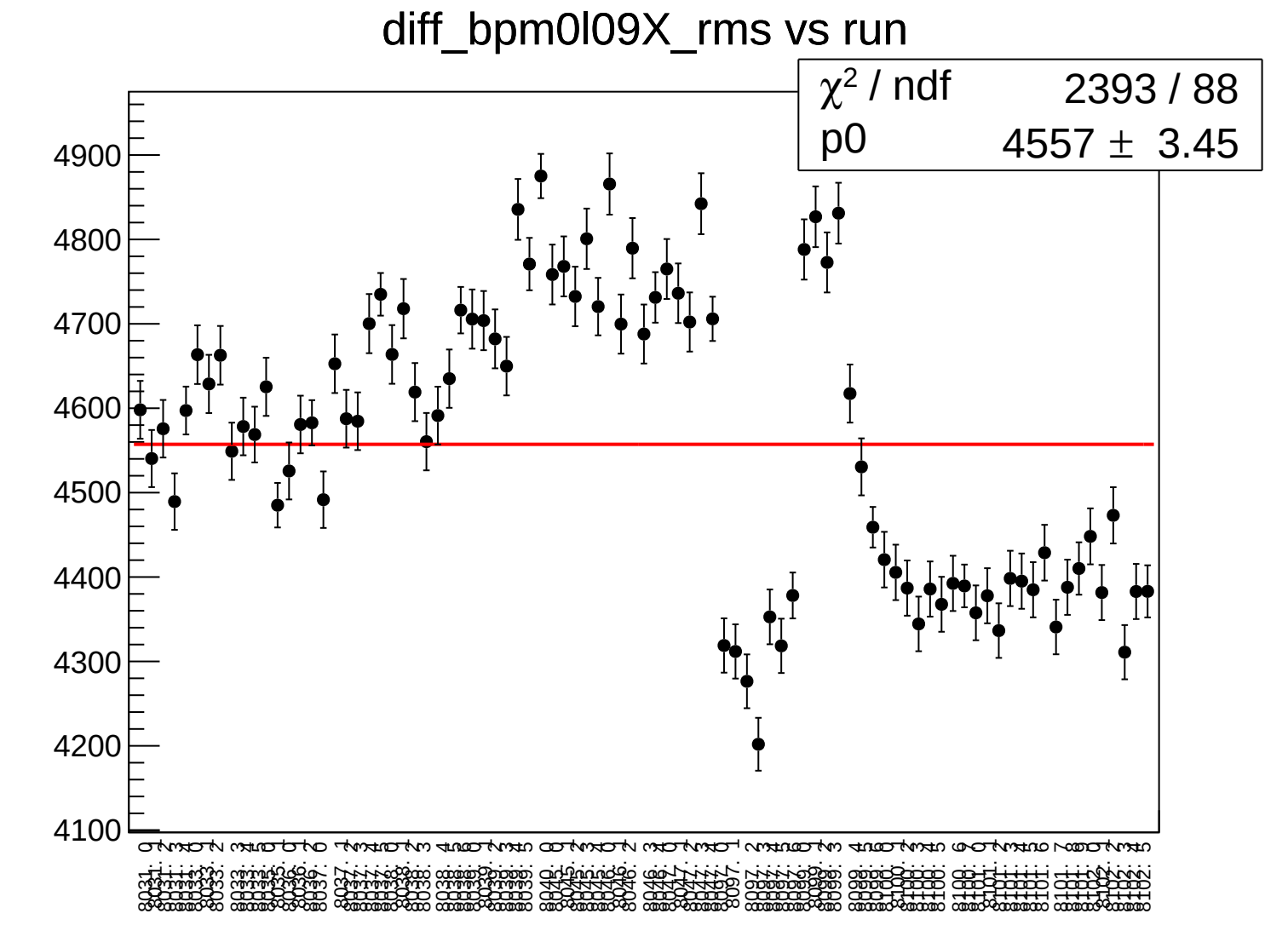

diff_bpm0l08Y_mean vs run
χ² / ndf 94.24 / 88
p0 4.685 ± 9.095
pull
Entries 89
Mean −56.41
Std Dev 0

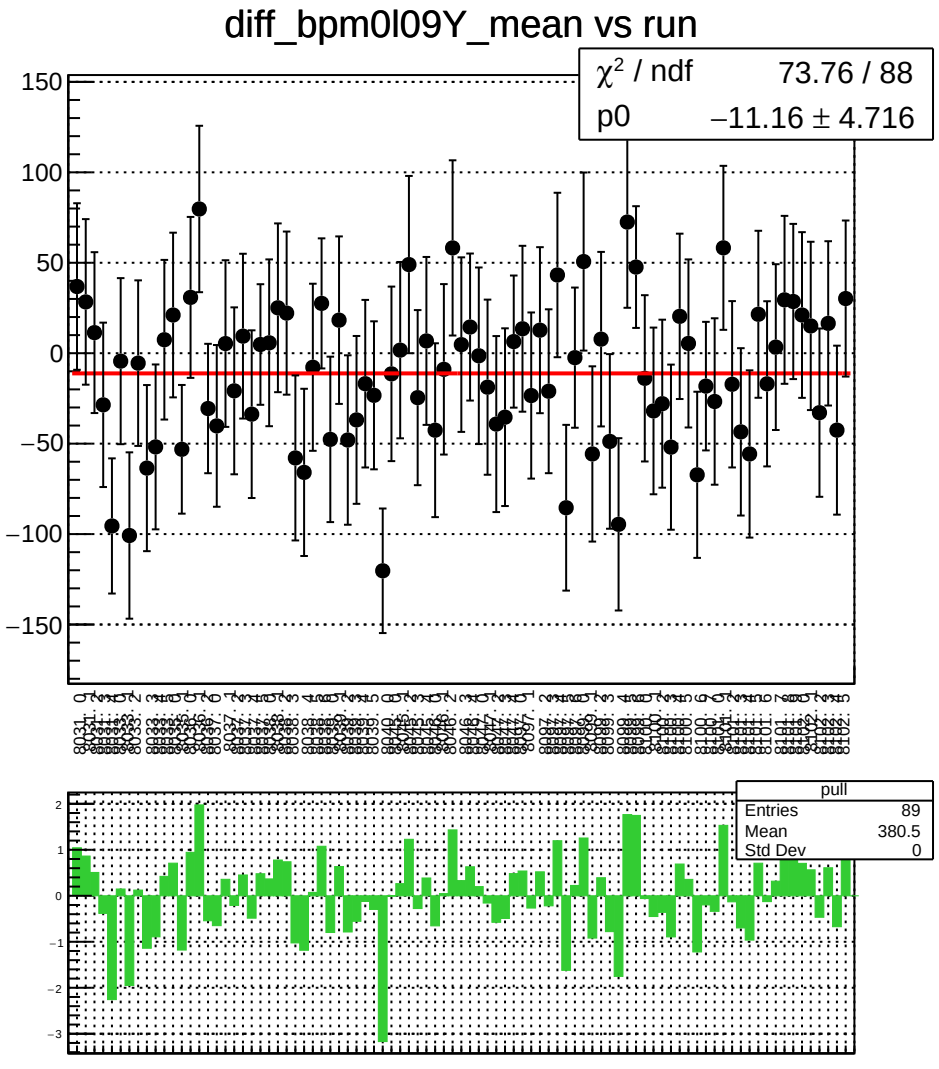

pull1D
Entries 89
Mean −0.008032
Std Dev 1.029

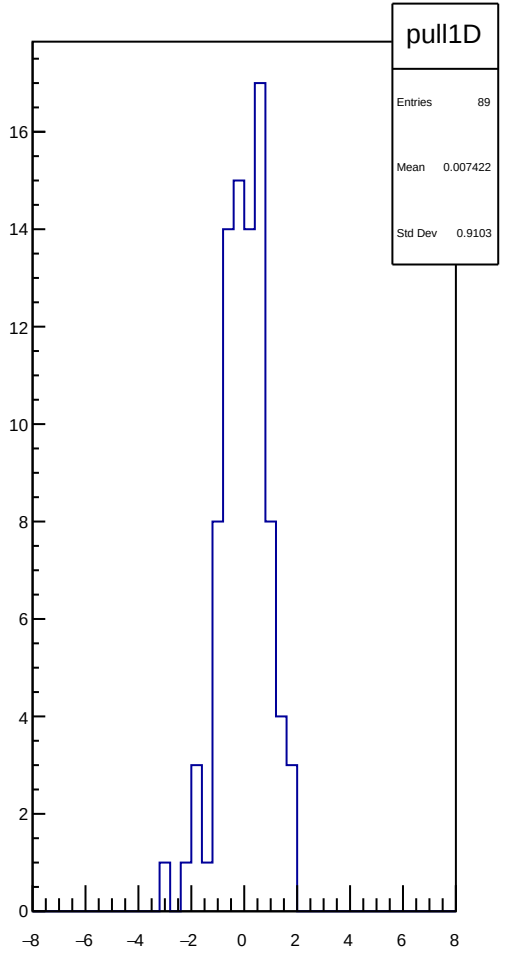

diff_bpm0l08Y_rms vs run
χ² / ndf 1.924e+04 / 88
p0 8454 ± 6.431
10500
10000
9500
9000
8500
8000
7500
7000
6500

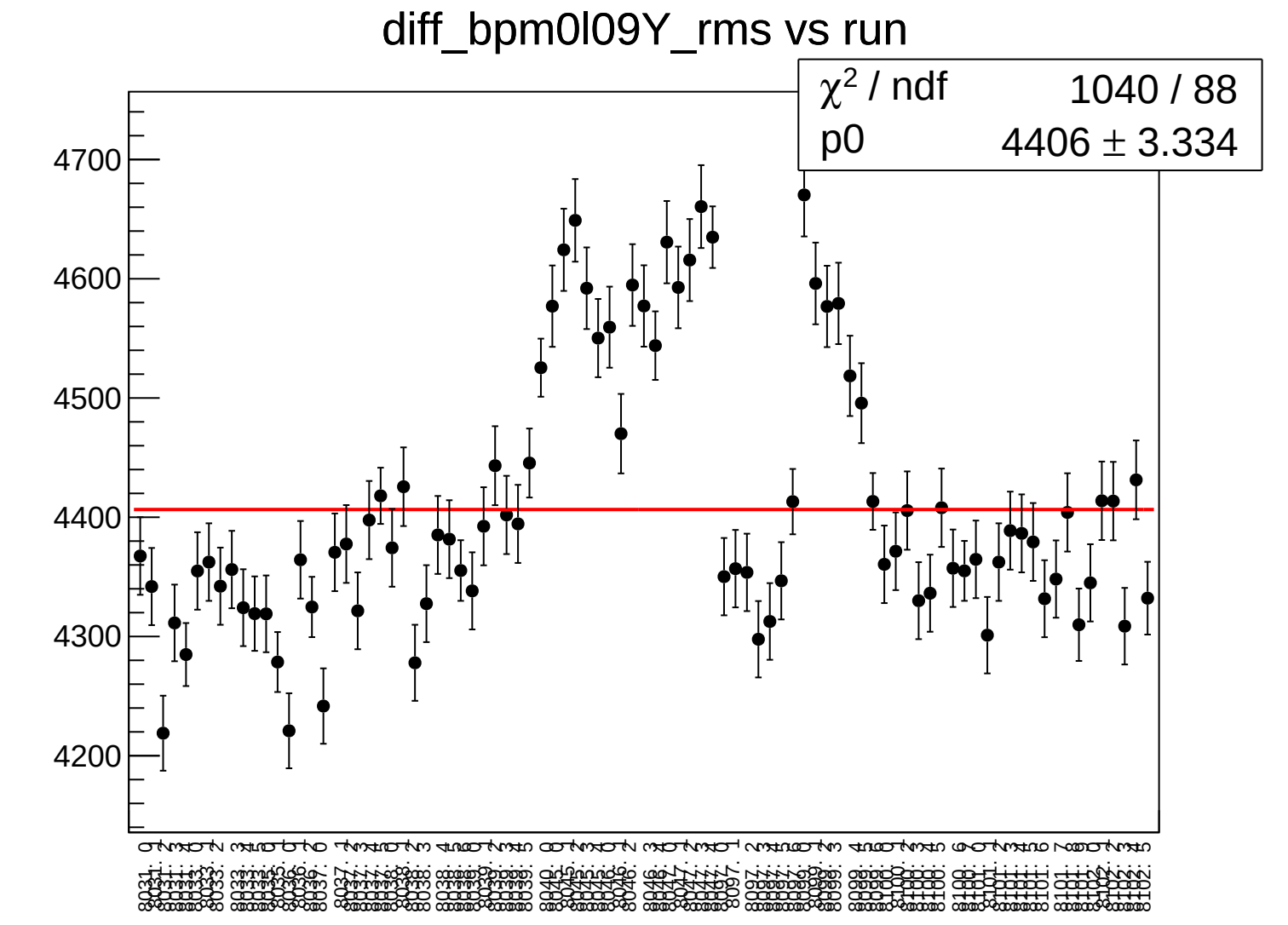

diff_bpm0l09X_mean vs run
χ² / ndf 98.56 / 88
p0 3.088 ± 4.879
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −2003
Std Dev 0
2
1
0
−1
−2

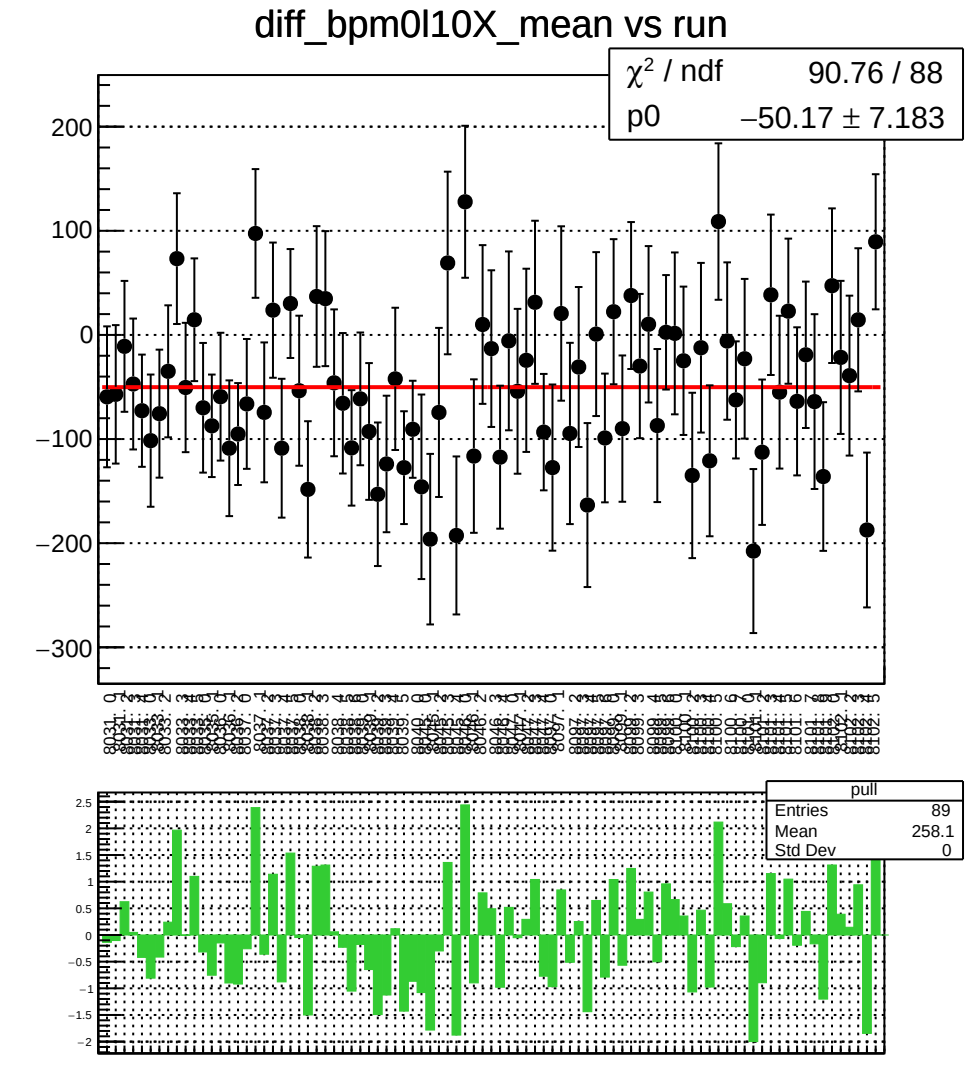

pull1D
Entries 89
Mean 0.002183
Std Dev 1.052
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

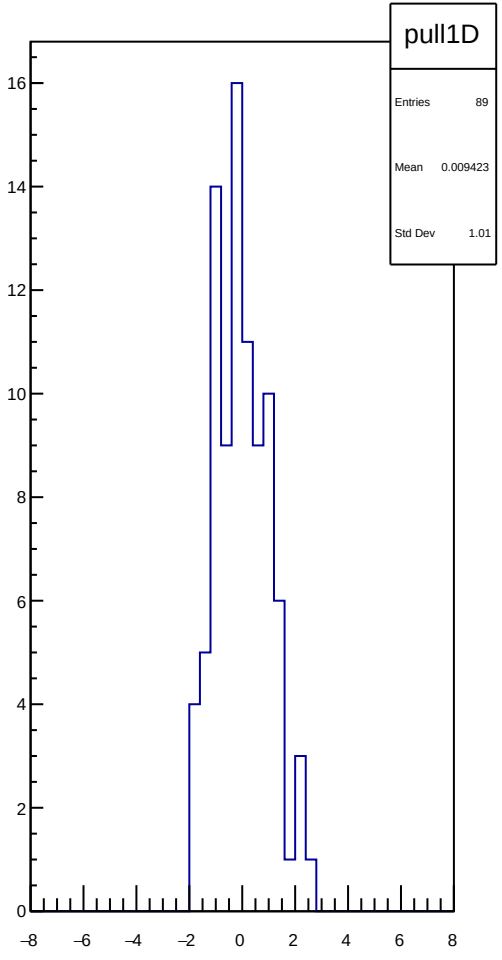

diff_bpm0l09X_rms vs run
χ² / ndf 2393 / 88
p0 4557 ± 3.45
4900
4800
4700
4600
4500
4400
4300
4200
4100

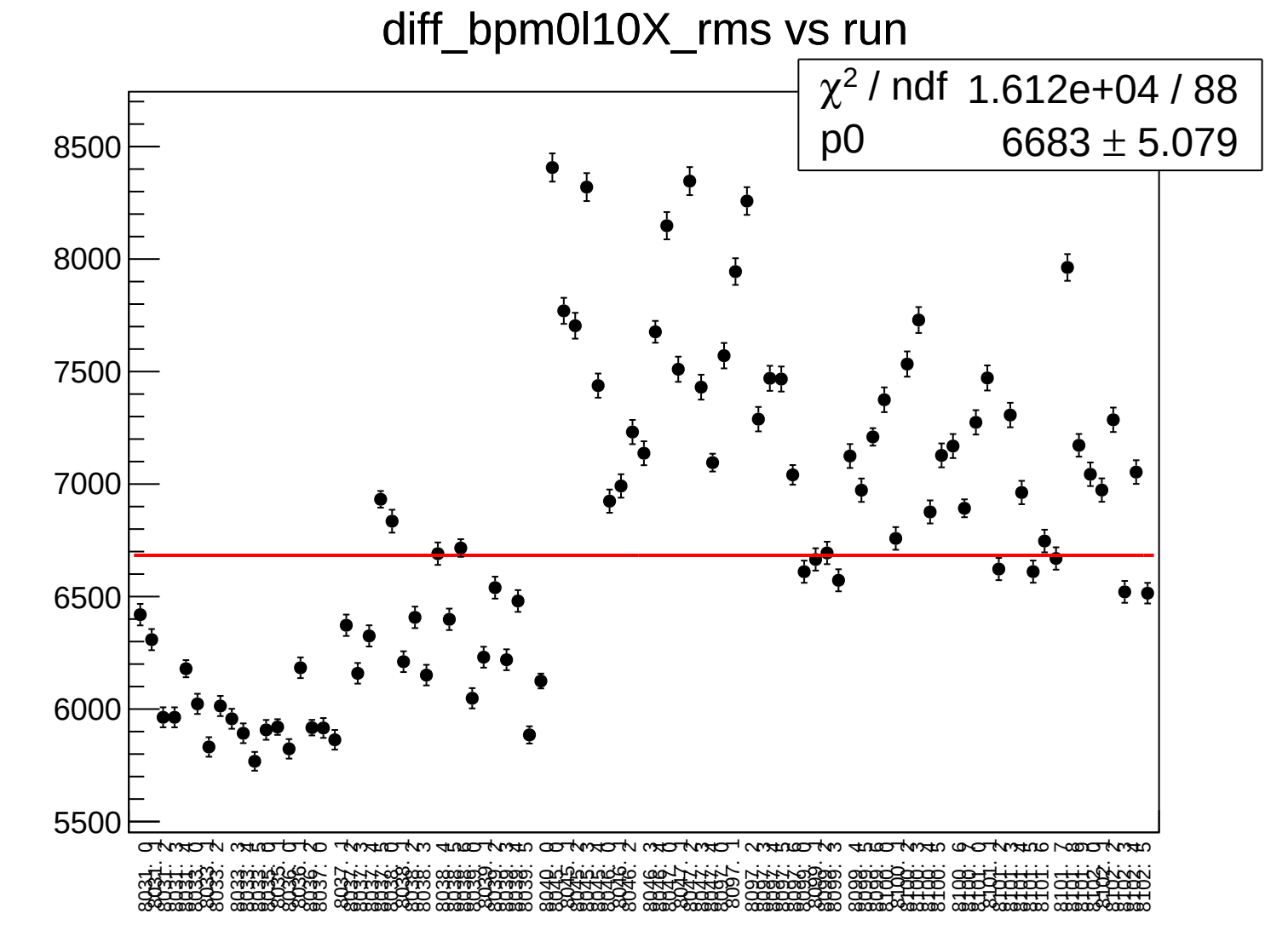

diff_bpm0l09Y_mean vs run
χ² / ndf 73.76 / 88
p0 −11.16 ± 4.716
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean 380.5
Std Dev 0
2
1
0
−1
−2
−3

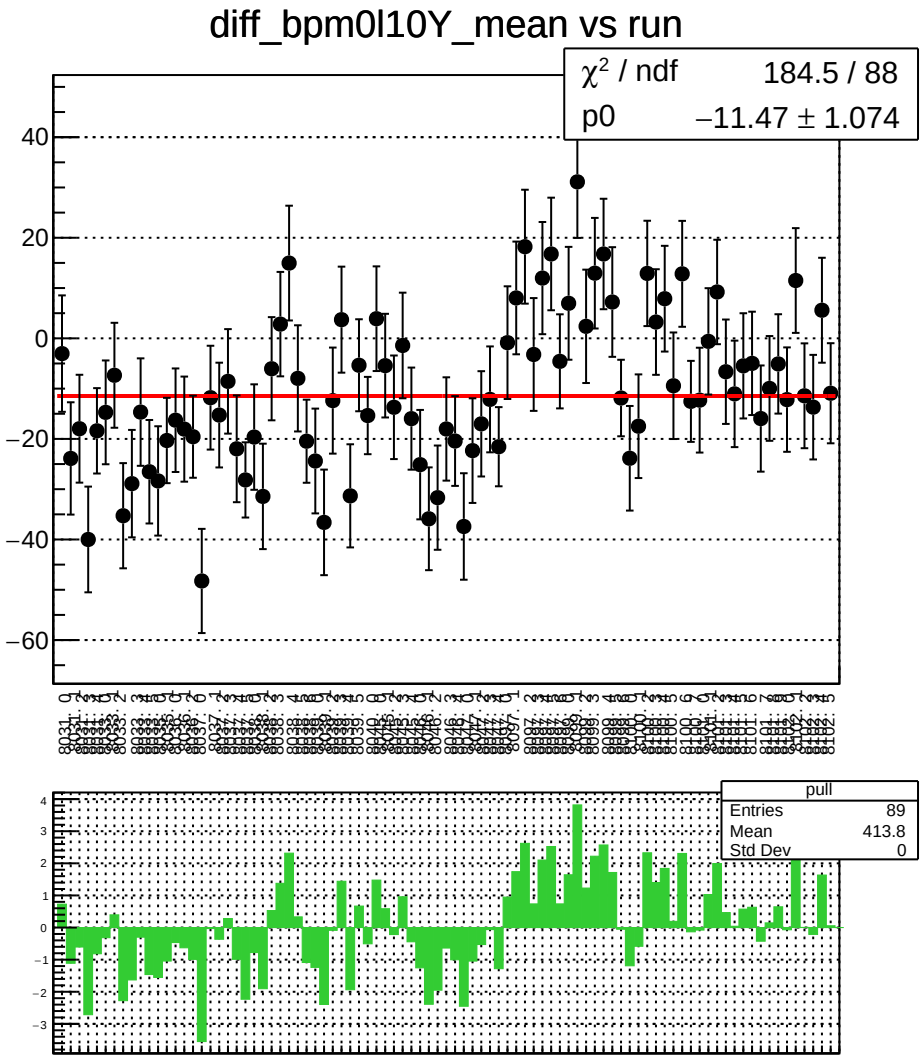

pull1D
Entries 89
Mean 0.007422
Std Dev 0.9103
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

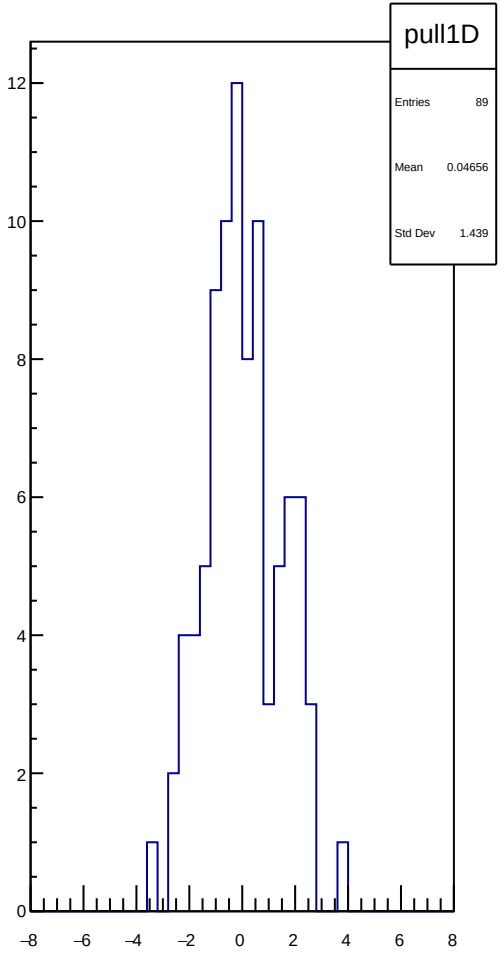

diff_bpm0l09Y_rms vs run
χ² / ndf 1040 / 88
p0 4406 ± 3.334
4700
4600
4500
4400
4300
4200

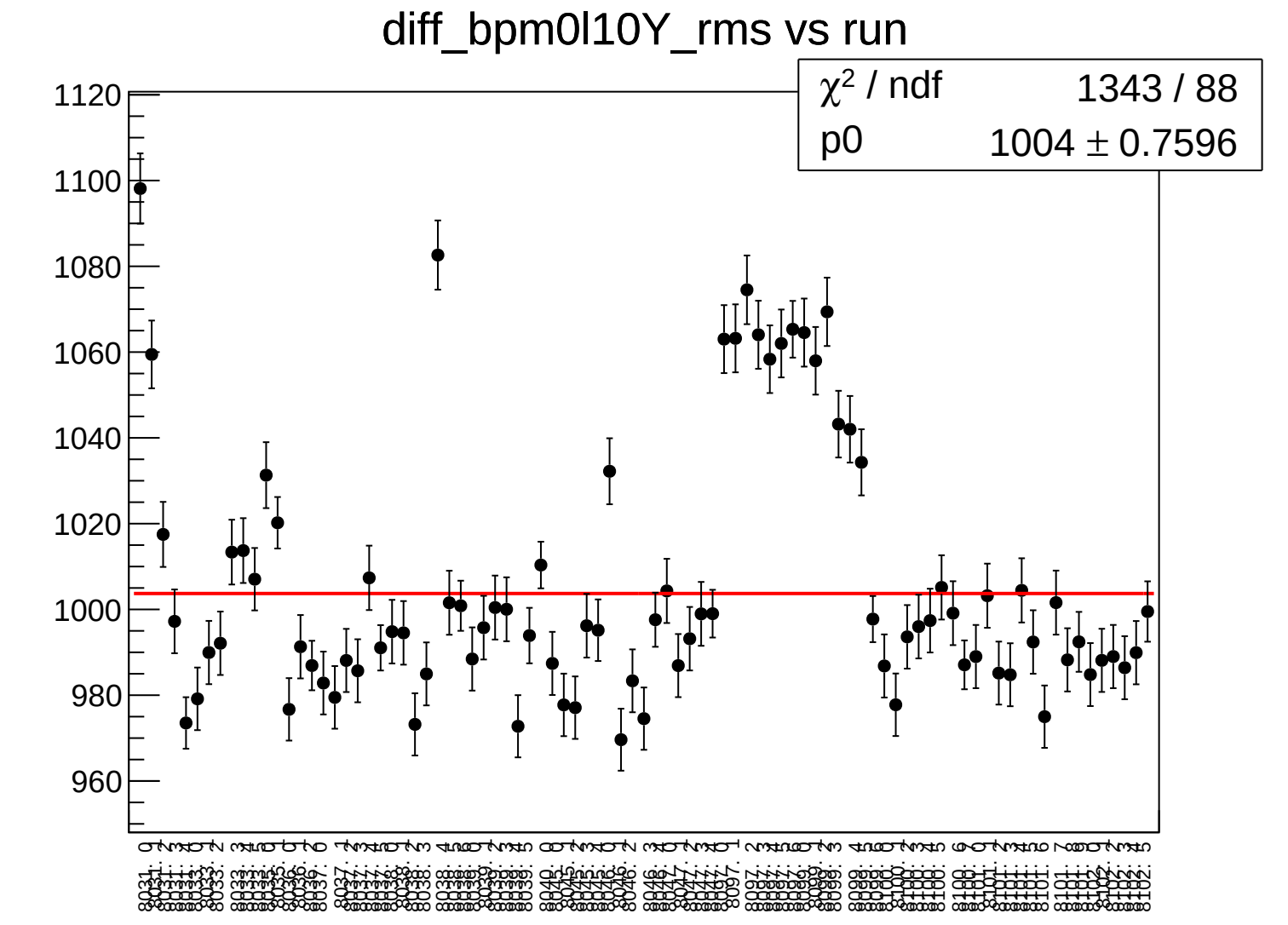

diff_bpm0l10X_mean vs run
χ² / ndf 90.76 / 88
p0 −50.17 ± 7.183
pull
Entries 89
Mean 258.1
Std Dev 0

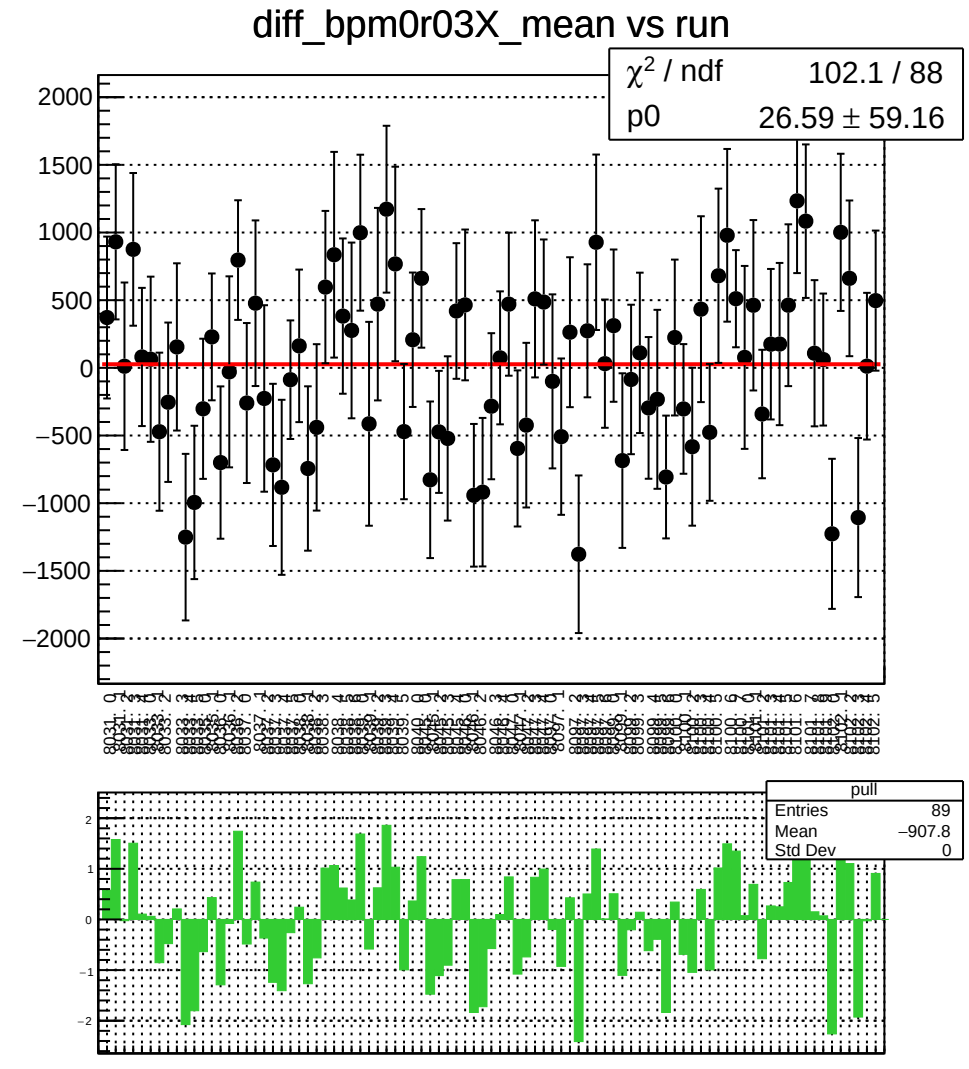

pull1D
Entries 89
Mean 0.009423
Std Dev 1.01

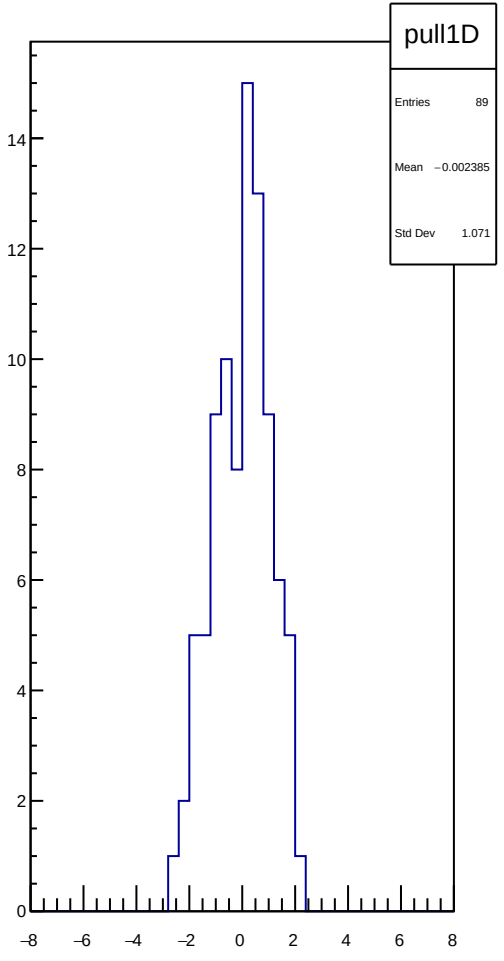

diff_bpm0l10X_rms vs run
χ² / ndf 1.612e+04 / 88
p0 6683 ± 5.079
8500
8000
7500
7000
6500
6000
5500

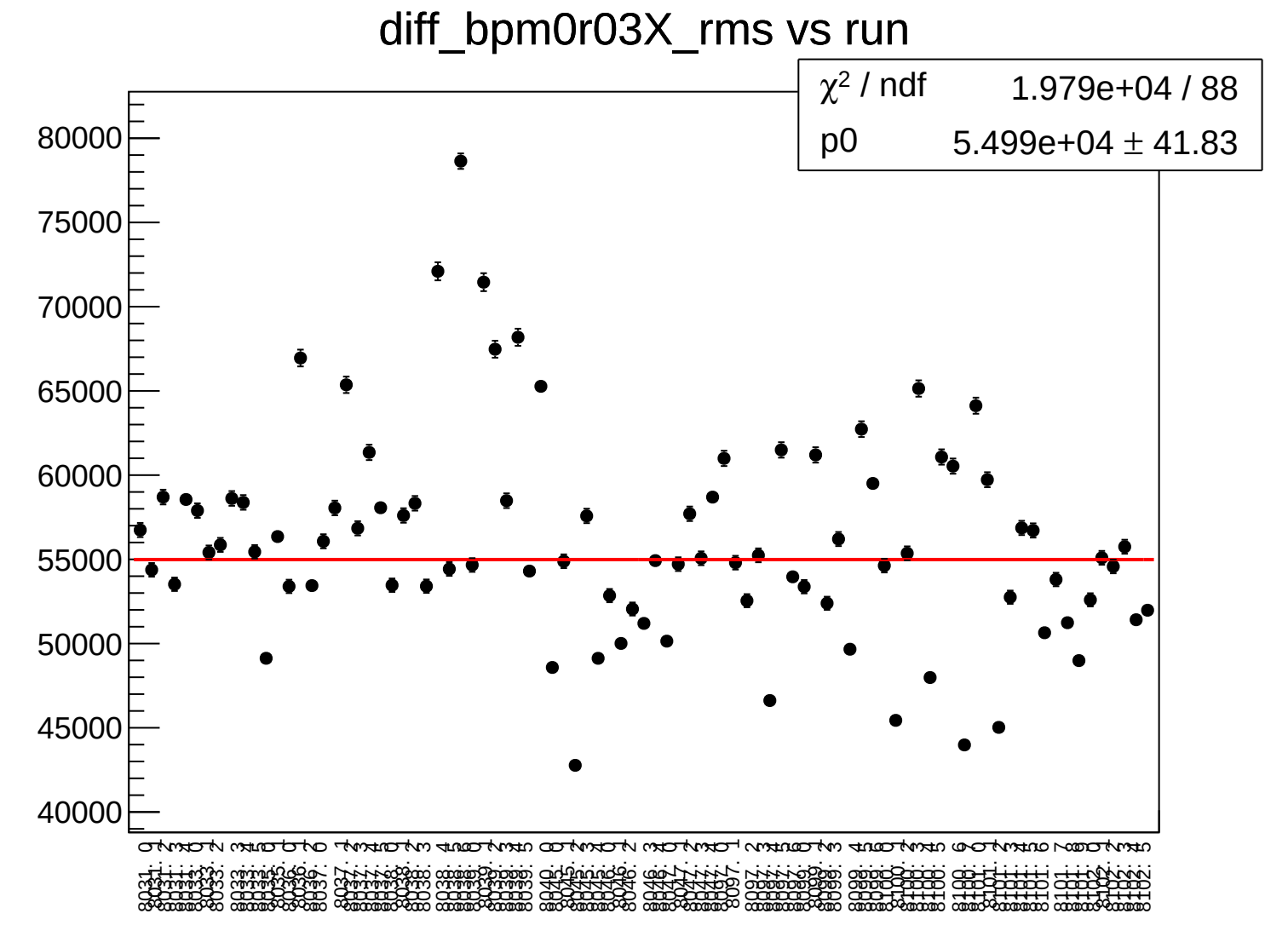

diff_bpm0l10Y_mean vs run
χ² / ndf 184.5 / 88
p0 −11.47 ± 1.074
pull
Entries 89
Mean 413.8
Std Dev 0

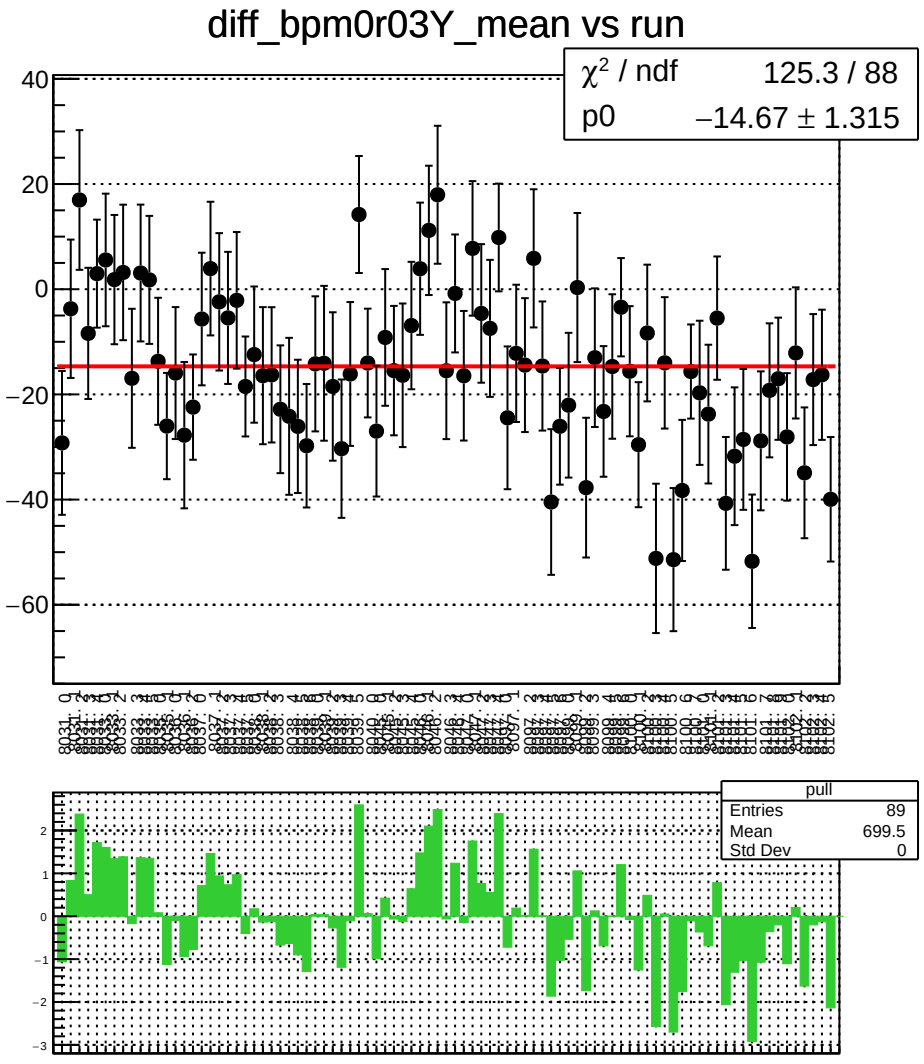

pull1D
Entries 89
Mean 0.04656
Std Dev 1.439

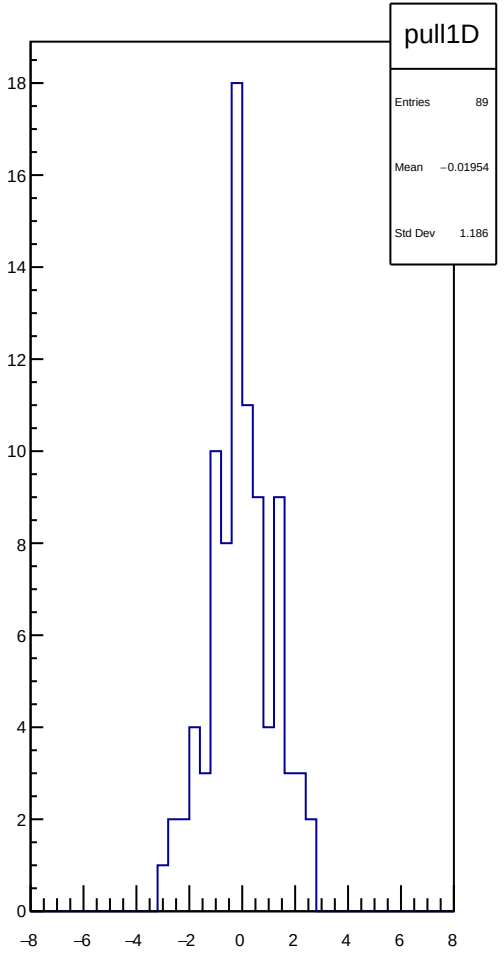

diff_bpm0l10Y_rms vs run
χ² / ndf 1343 / 88
p0 1004 ± 0.7596
1120
1100
1080
1060
1040
1020
1000
980
960

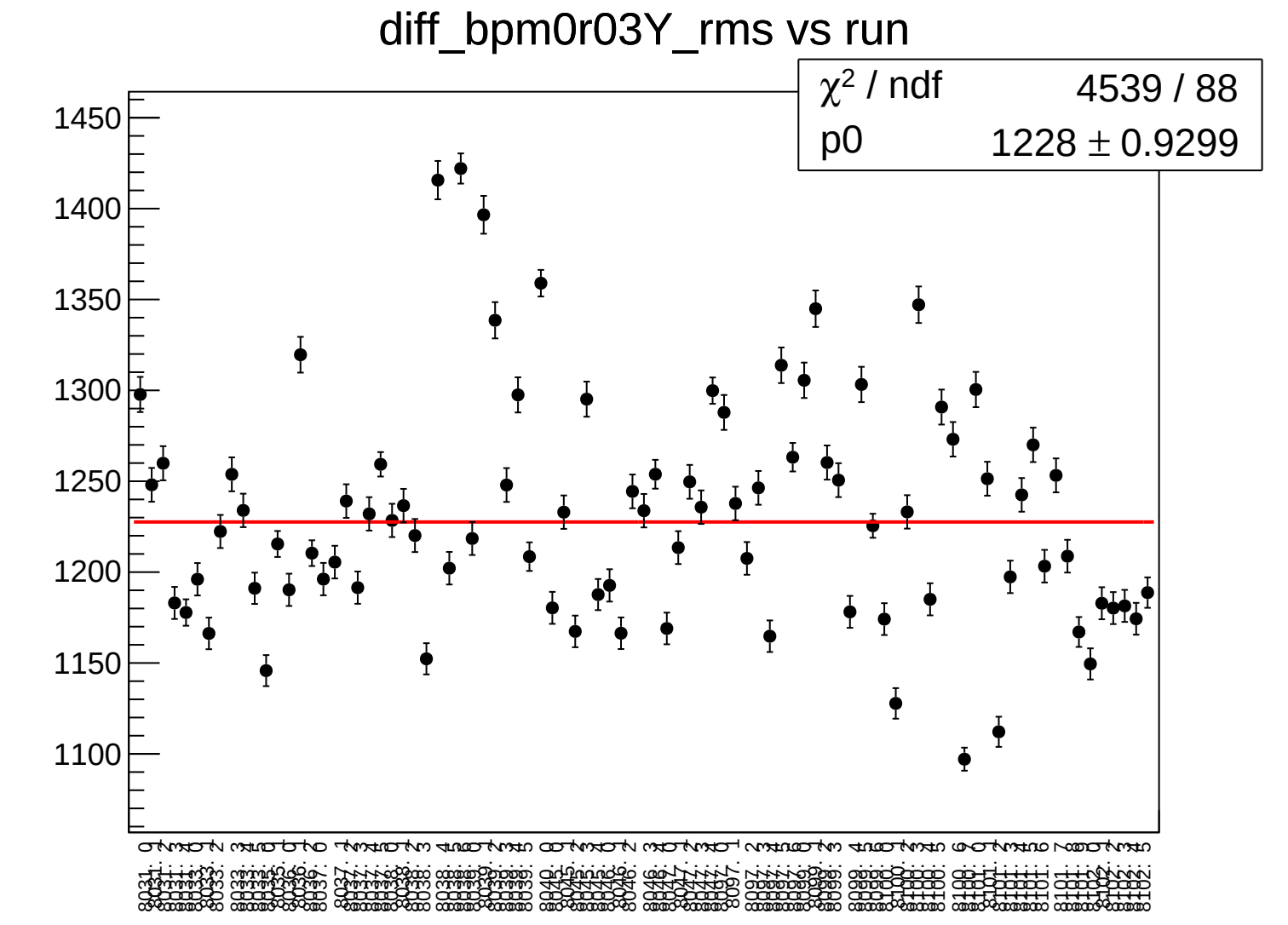

diff_bpm0r03X_mean vs run
$\chi^2$ / ndf 102.1 / 88
p0 26.59 ± 59.16
2000
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 89
Mean −907.8
Std Dev 0
2
1
0
−1
−2

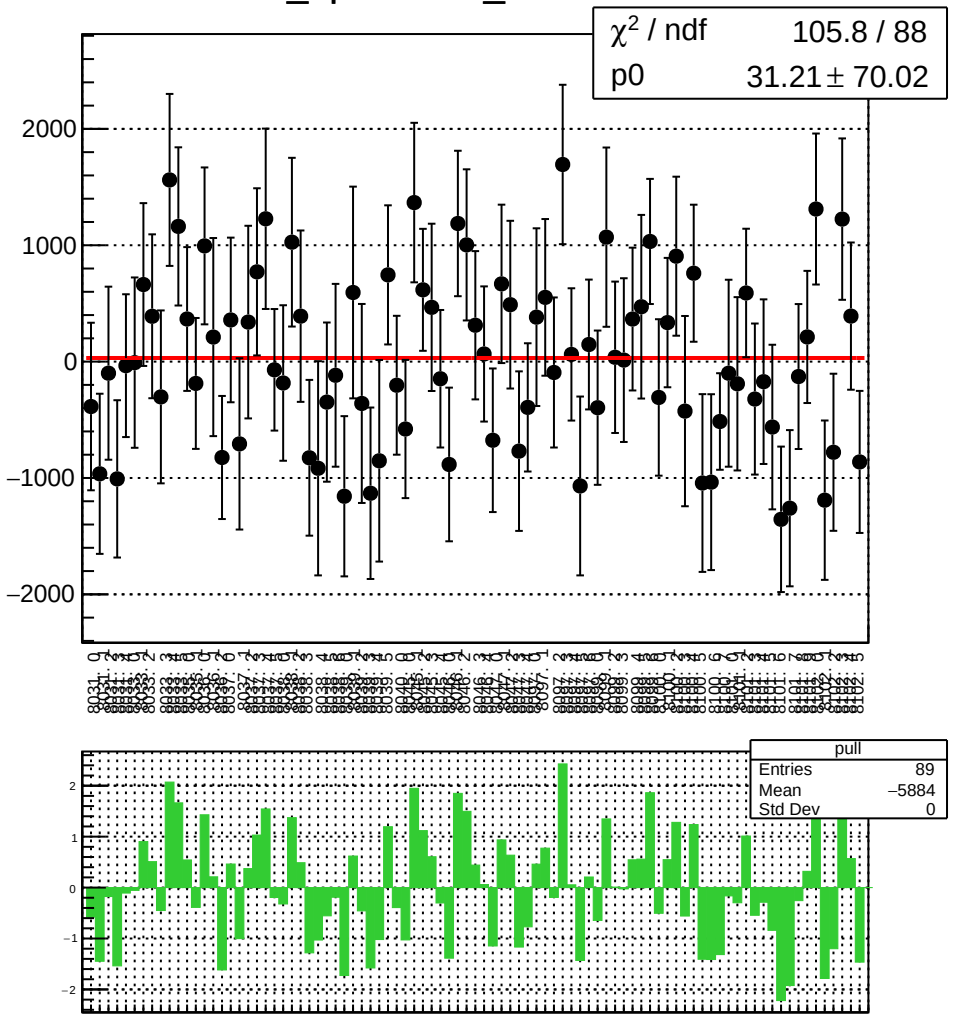

pull1D
Entries 89
Mean −0.002385
Std Dev 1.071
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

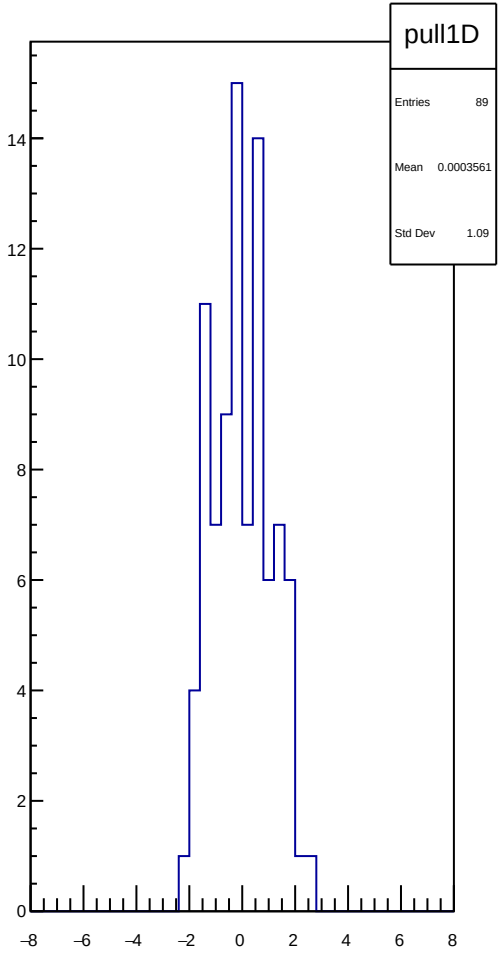

diff_bpm0r03X_rms vs run
χ² / ndf 1.979e+04 / 88
p0 5.499e+04 ± 41.83
80000
75000
70000
65000
60000
55000
50000
45000
40000

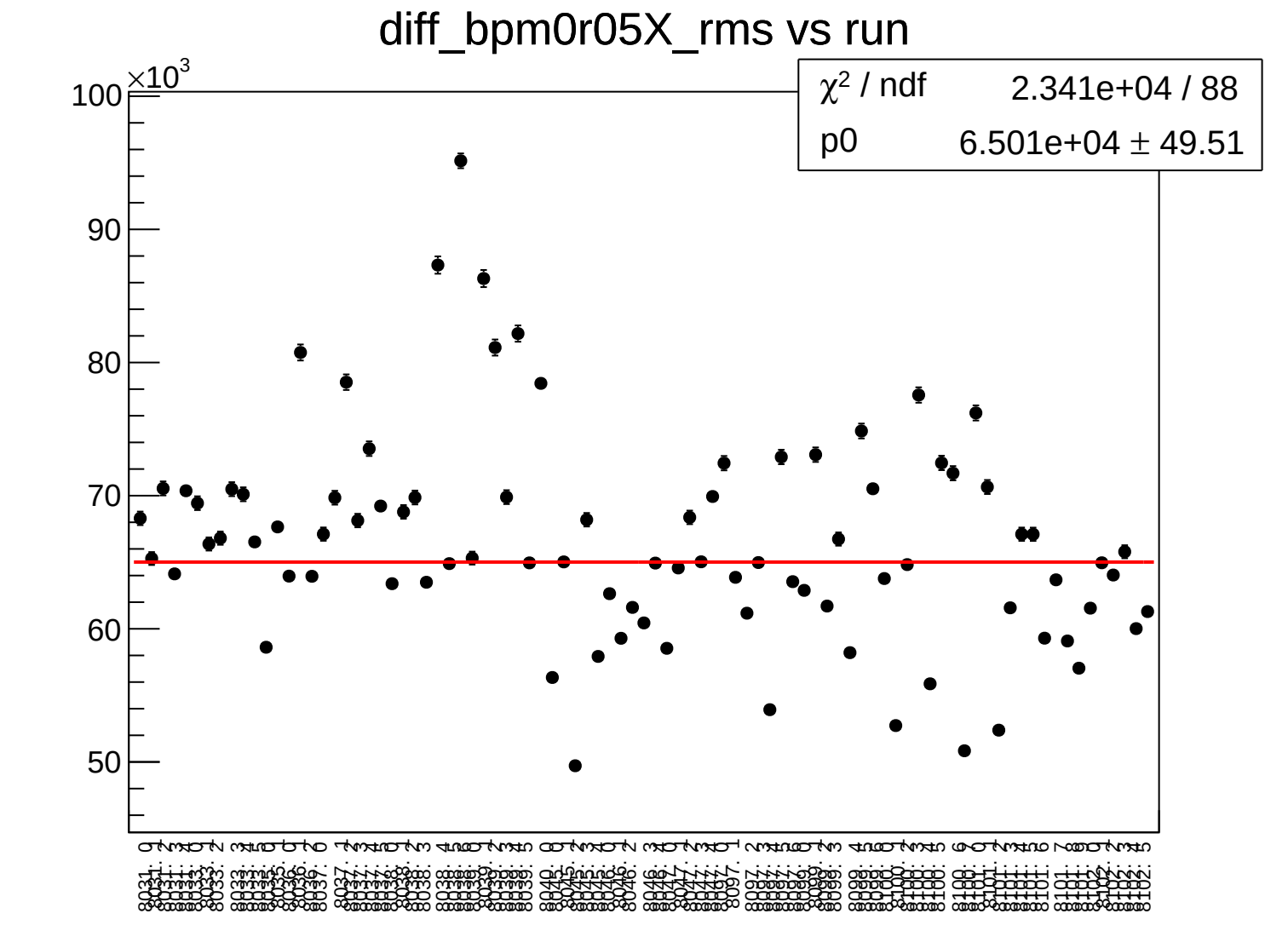

diff_bpm0r03Y_mean vs run
χ² / ndf 125.3 / 88
p0 −14.67 ± 1.315
pull
Entries 89
Mean 699.5
Std Dev 0

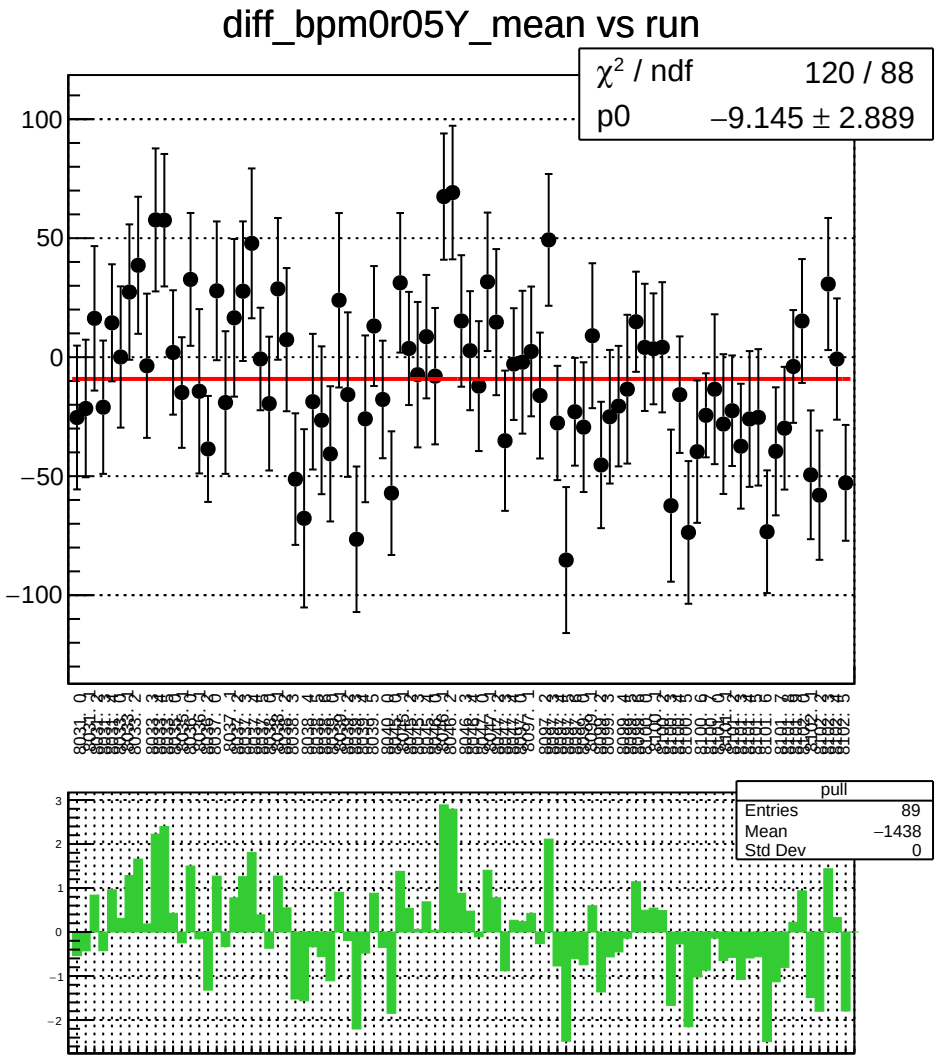

pull1D
Entries 89
Mean −0.01954
Std Dev 1.186

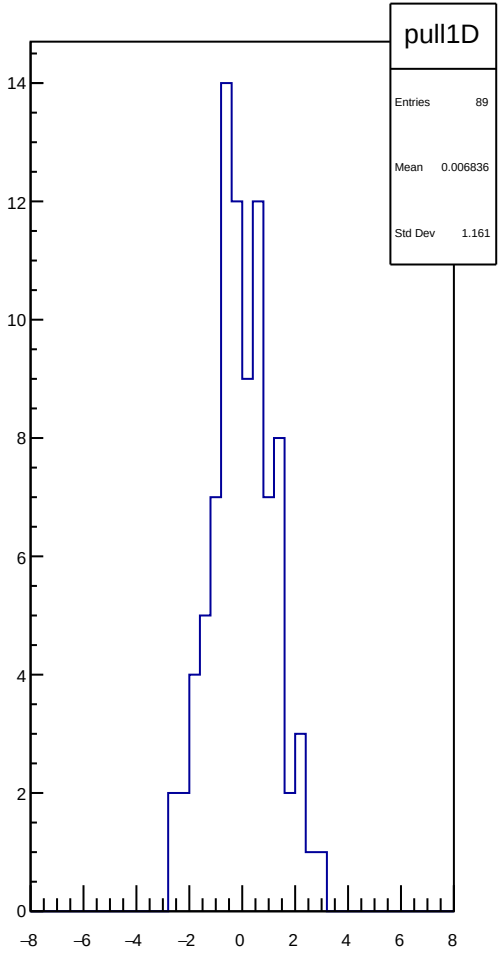

diff_bpm0r03Y_rms vs run
χ² / ndf 4539 / 88
p0 1228 ± 0.9299
1450
1400
1350
1300
1250
1200
1150
1100

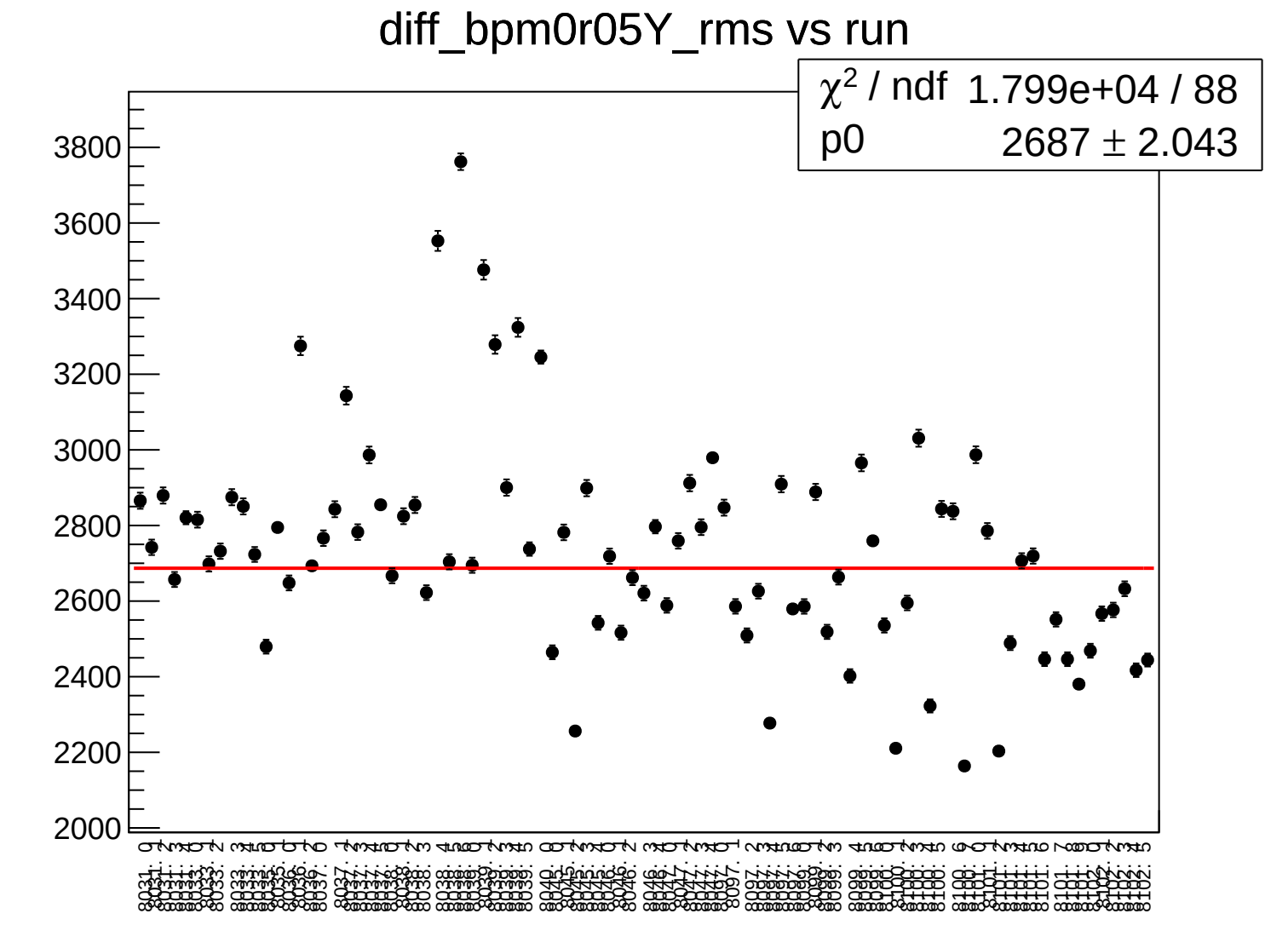

diff_bpm0r05X_mean vs run
χ² / ndf 105.8 / 88
p0 31.21 ± 70.02
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −5884
Std Dev 0
2
1
0
−1
−2

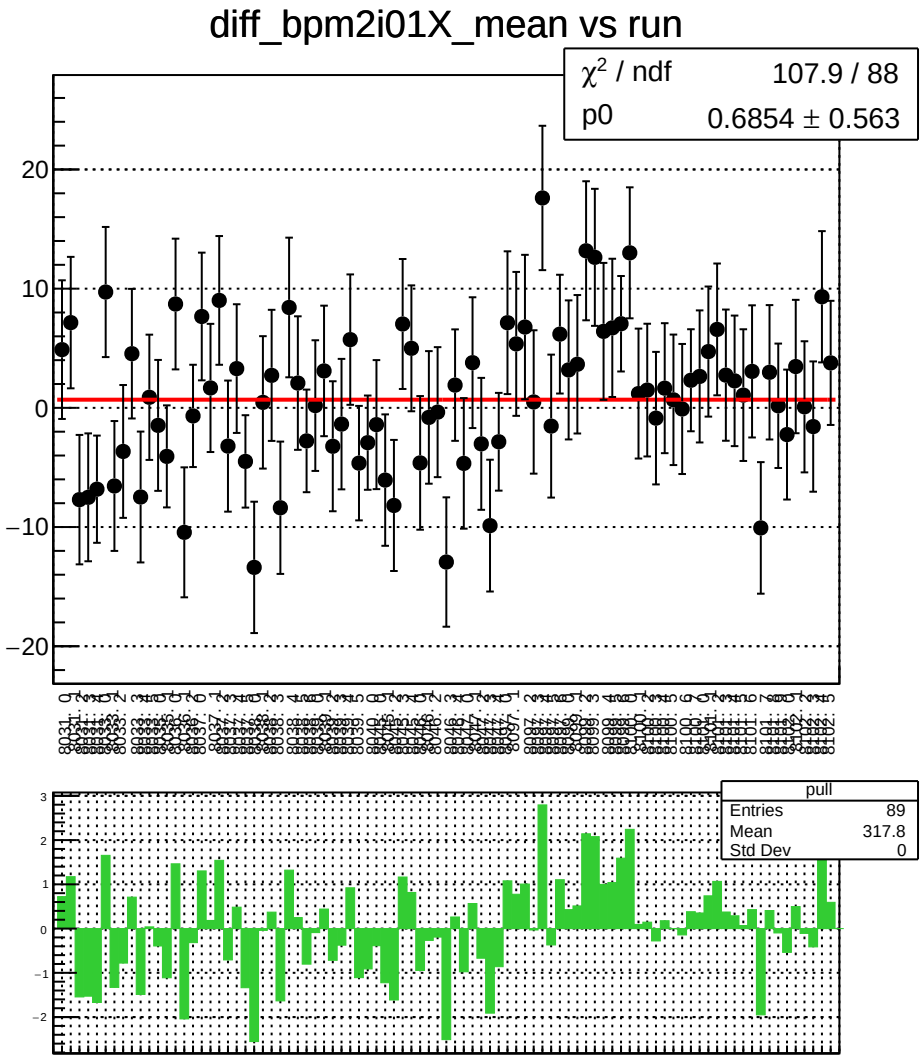

pull1D
Entries 89
Mean 0.0003561
Std Dev 1.09
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

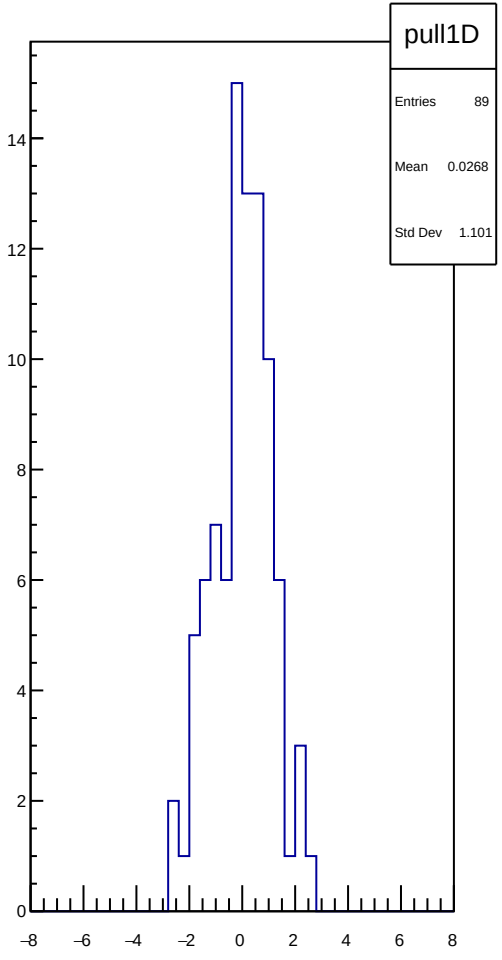

diff_bpm0r05X_rms vs run
×10^3
100
90
80
70
60
50
χ² / ndf 2.341e+04 / 88
p0 6.501e+04 ± 49.51

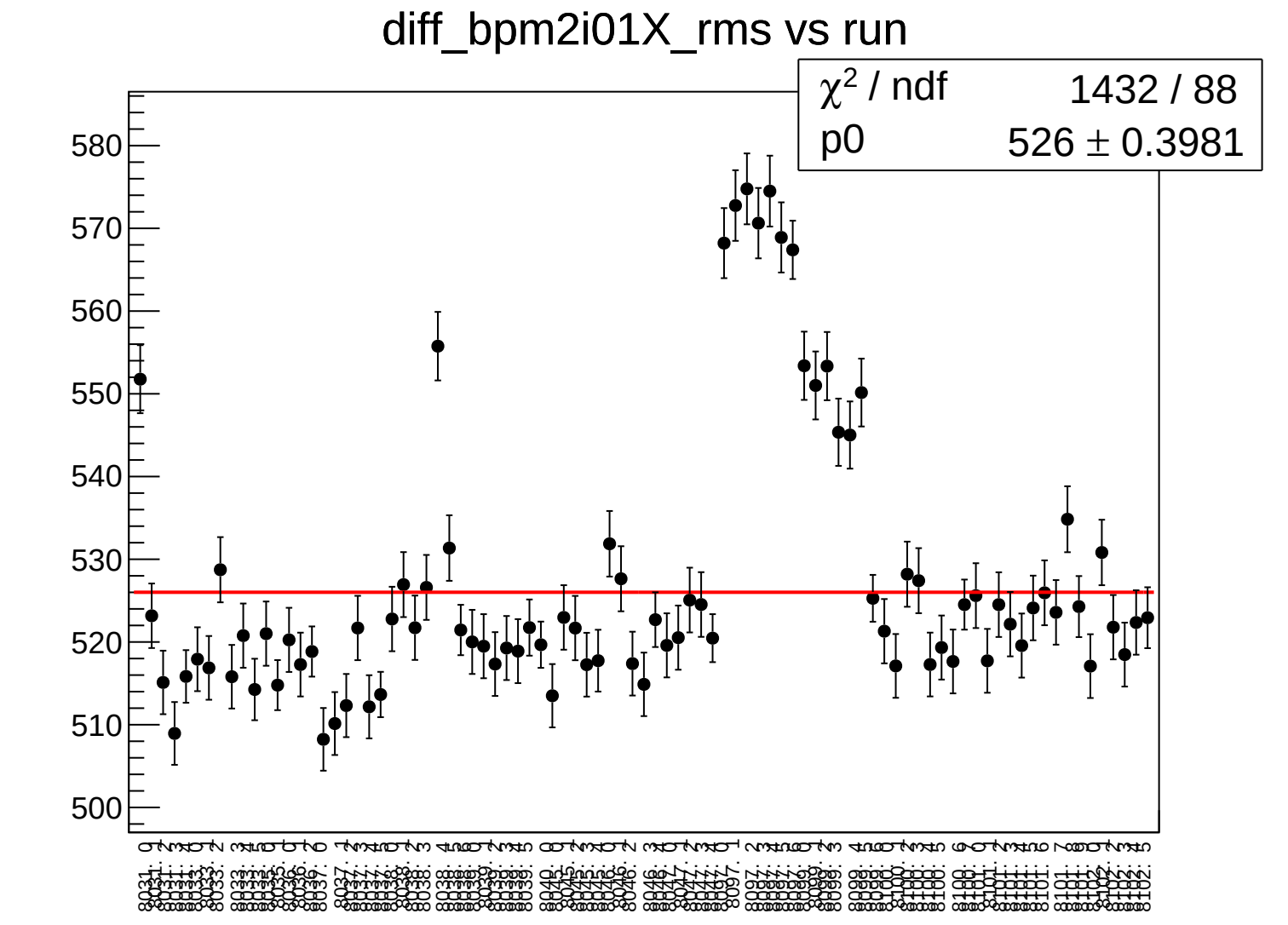

diff_bpm0r05Y_mean vs run
χ² / ndf 120 / 88
p0 −9.145 ± 2.889
100
50
0
−50
−100
pull
Entries 89
Mean −1438
Std Dev 0
3
2
1
0
−1
−2

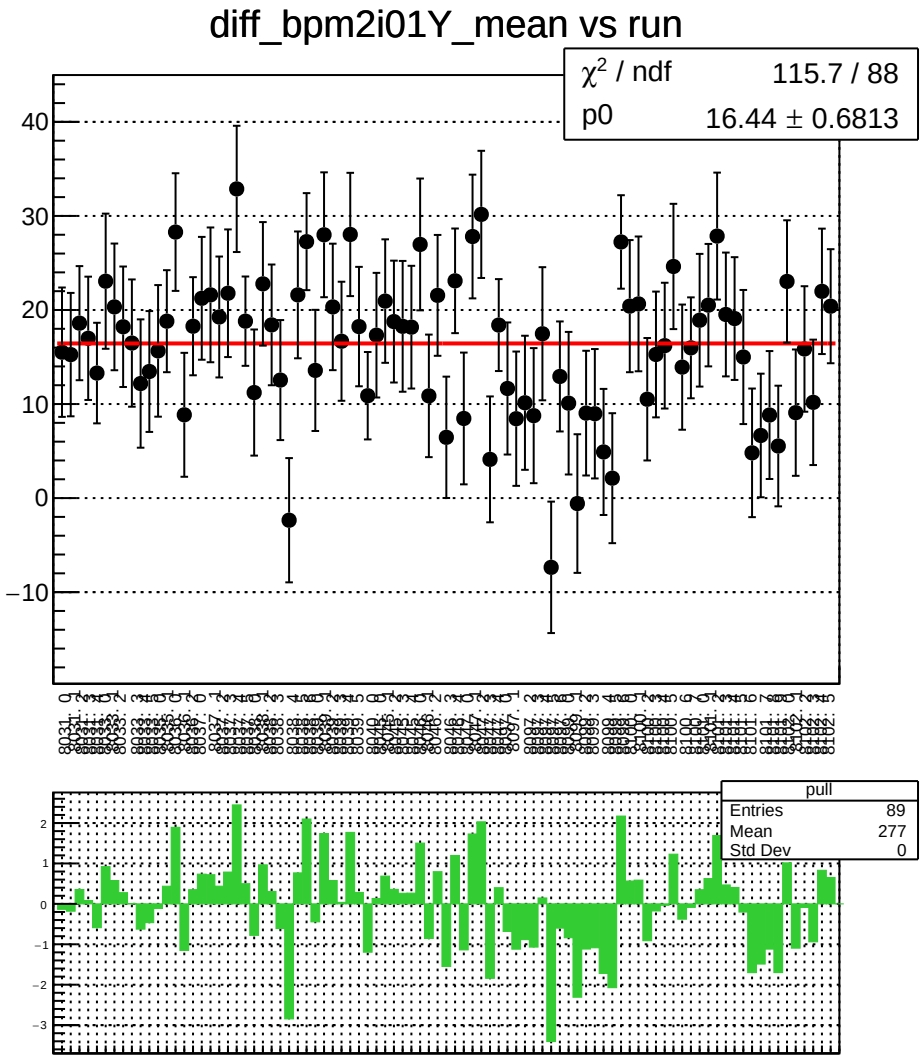

pull1D
Entries 89
Mean 0.006836
Std Dev 1.161
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

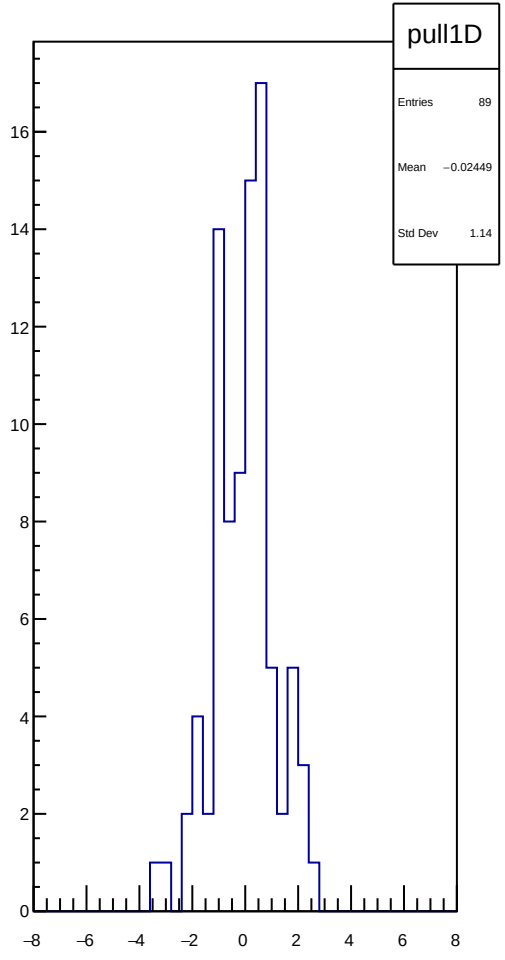

diff_bpm0r05Y_rms vs run
χ² / ndf 1.799e+04 / 88
p0 2687 ± 2.043
3800
3600
3400
3200
3000
2800
2600
2400
2200
2000

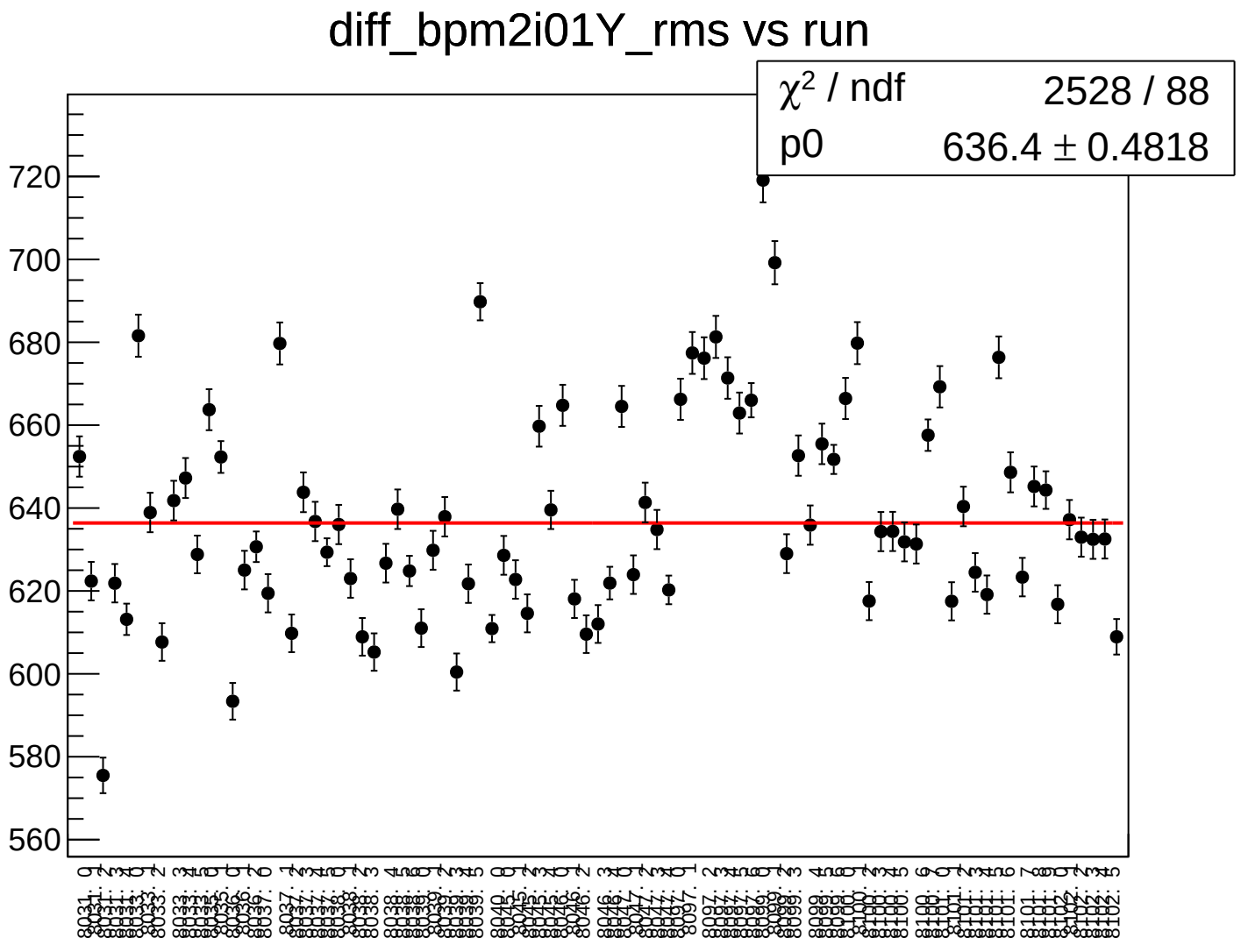

diff_bpm2i01X_mean vs run
$\chi^2$ / ndf 107.9 / 88
p0 0.6854 ± 0.563
20
10
0
−10
−20
pull
Entries 89
Mean 317.8
Std Dev 0
3
2
1
0
−1
−2

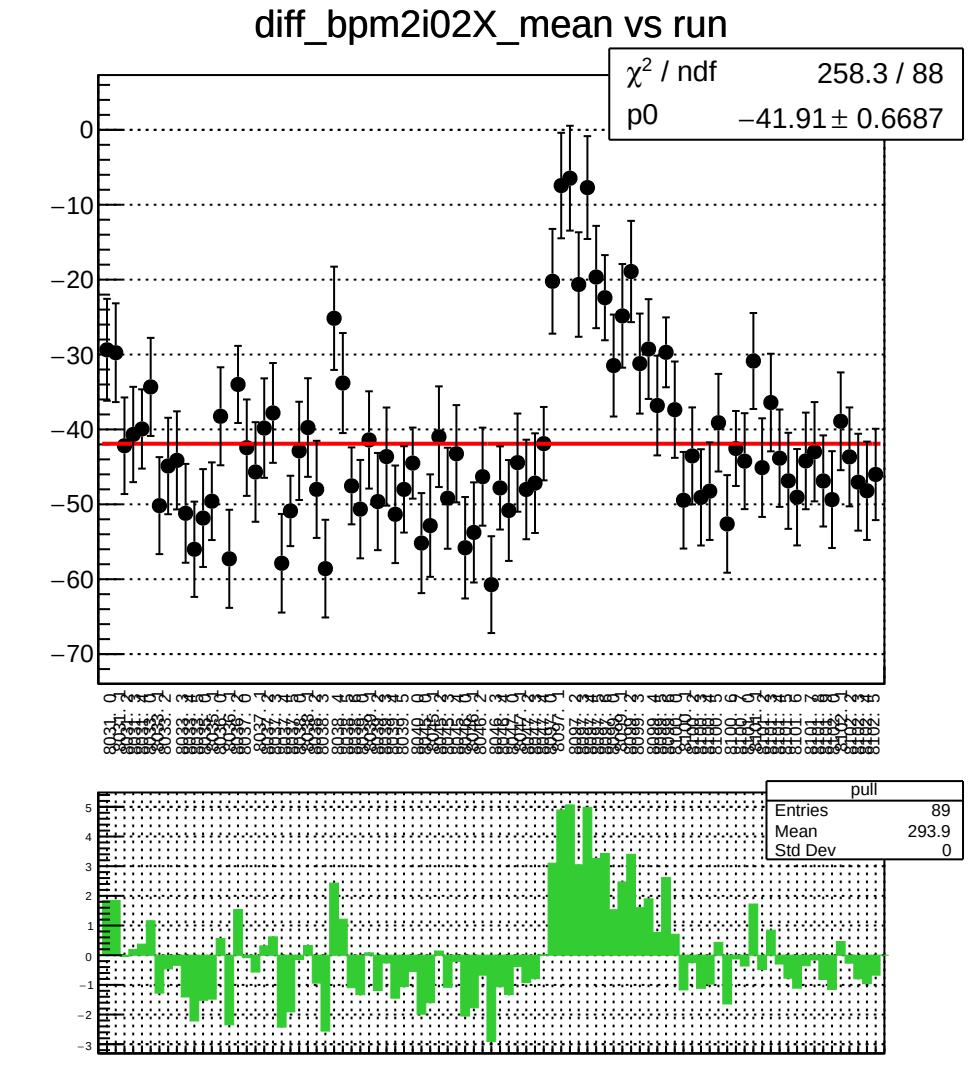

pull1D
Entries 89
Mean 0.0268
Std Dev 1.101
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

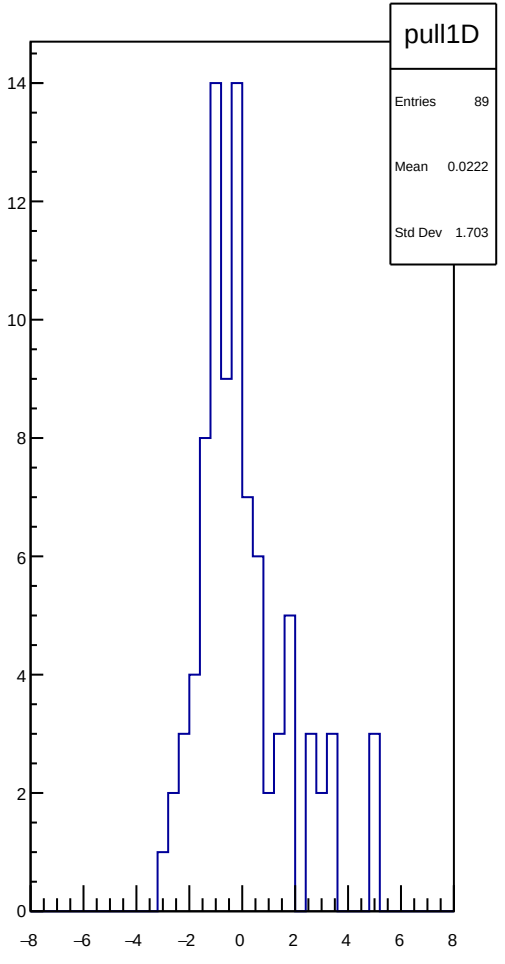

diff_bpm2i01X_rms vs run
χ² / ndf 1432 / 88
p0 526 ± 0.3981
580
570
560
550
540
530
520
510
500

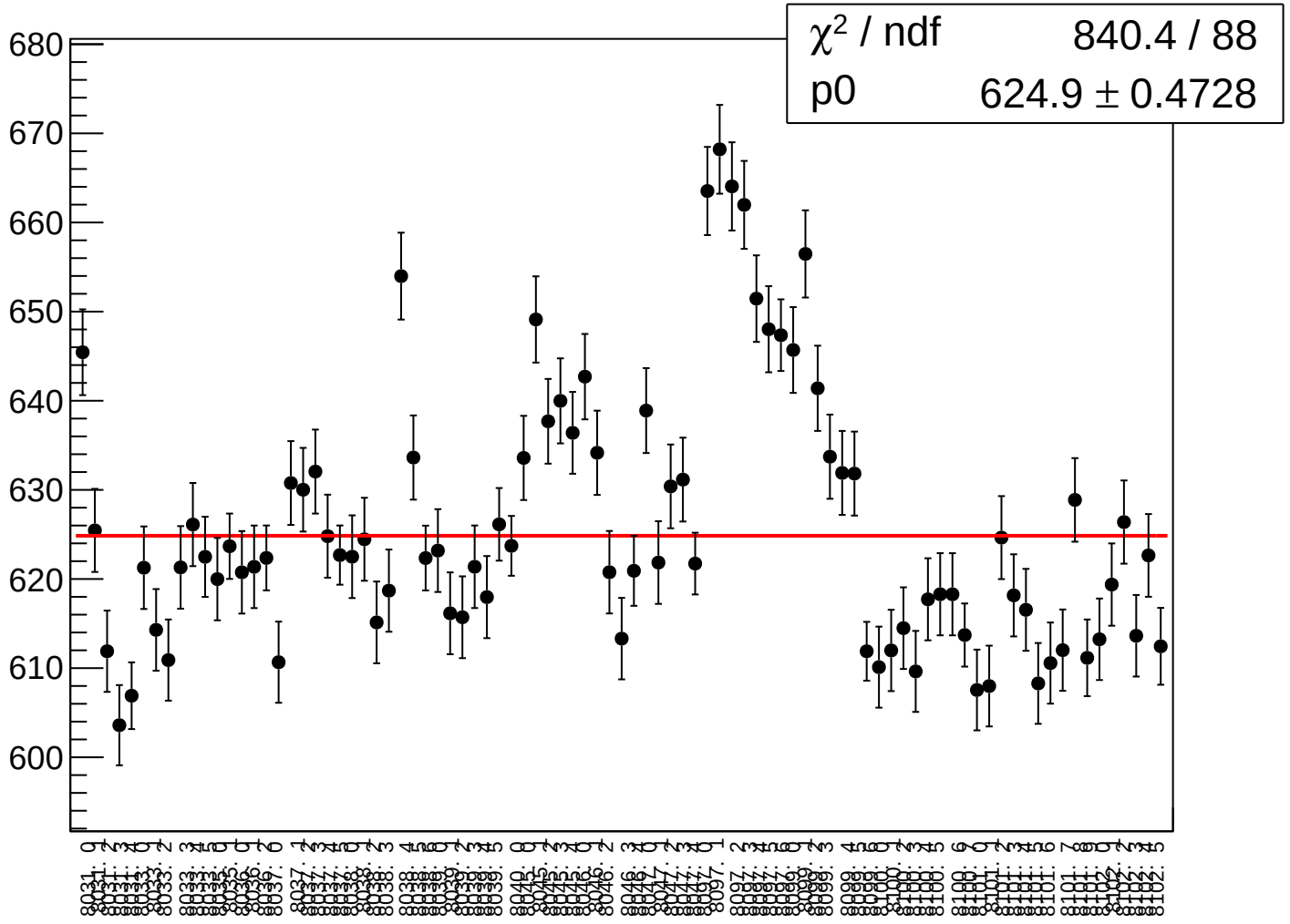

diff_bpm2i01Y_mean vs run
χ² / ndf 115.7 / 88
p0 16.44 ± 0.6813
40
30
20
10
0
−10
pull
Entries 89
Mean 277
Std Dev 0
2
1
0
−1
−2
−3

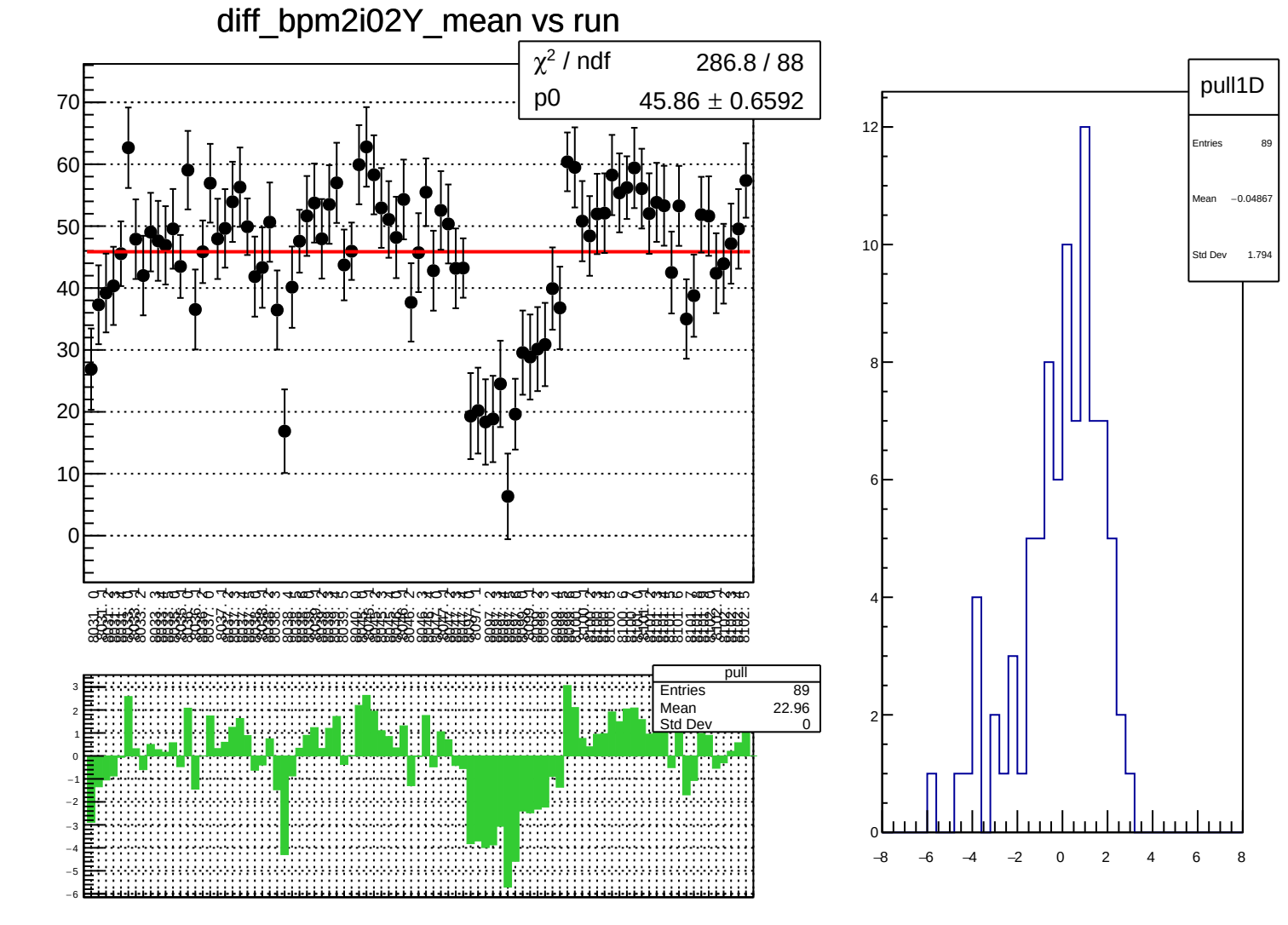

pull1D
Entries 89
Mean −0.02449
Std Dev 1.14
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

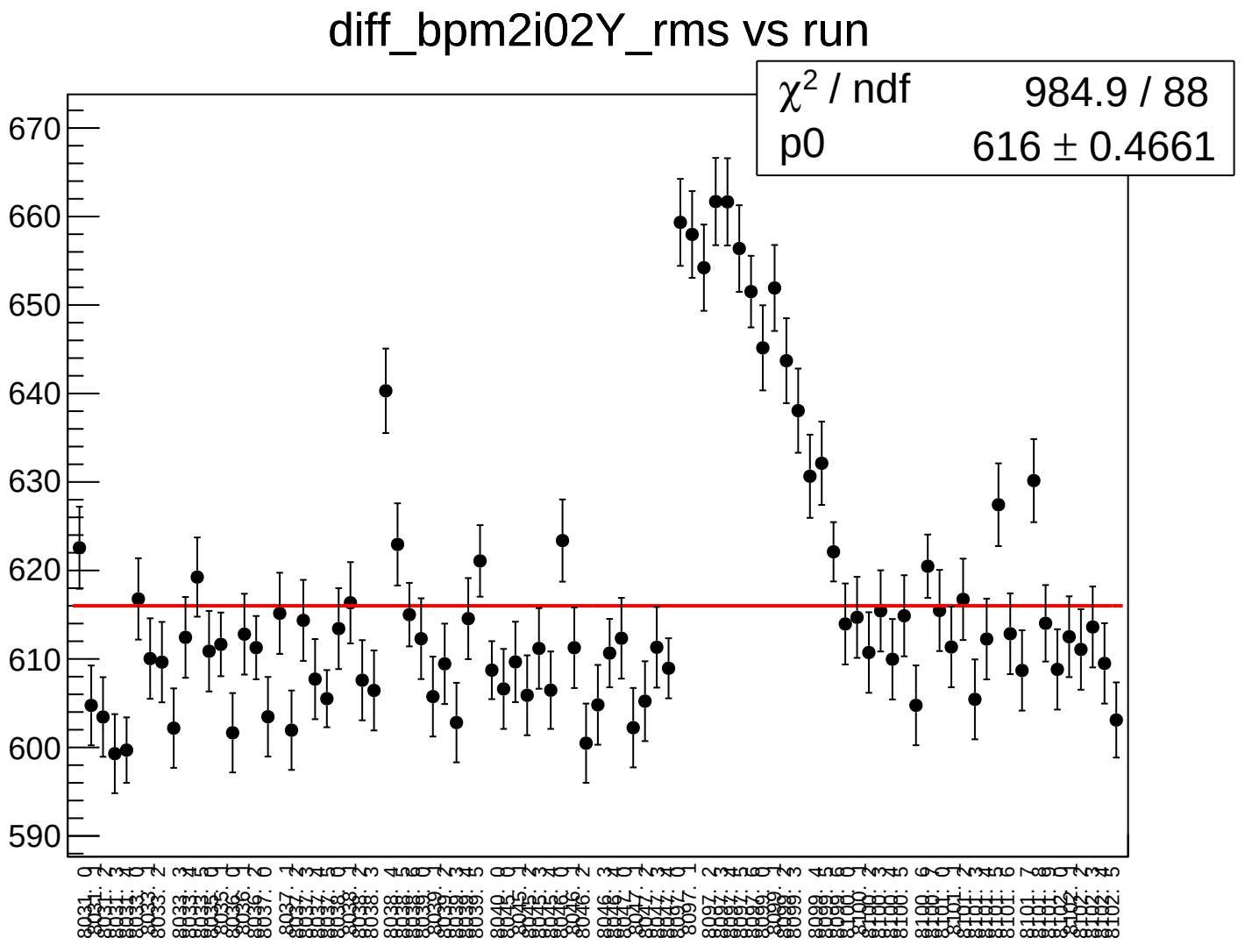

diff_bpm2i01Y_rms vs run
χ² / ndf 2528 / 88
p0 636.4 ± 0.4818
720
700
680
660
640
620
600
580
560

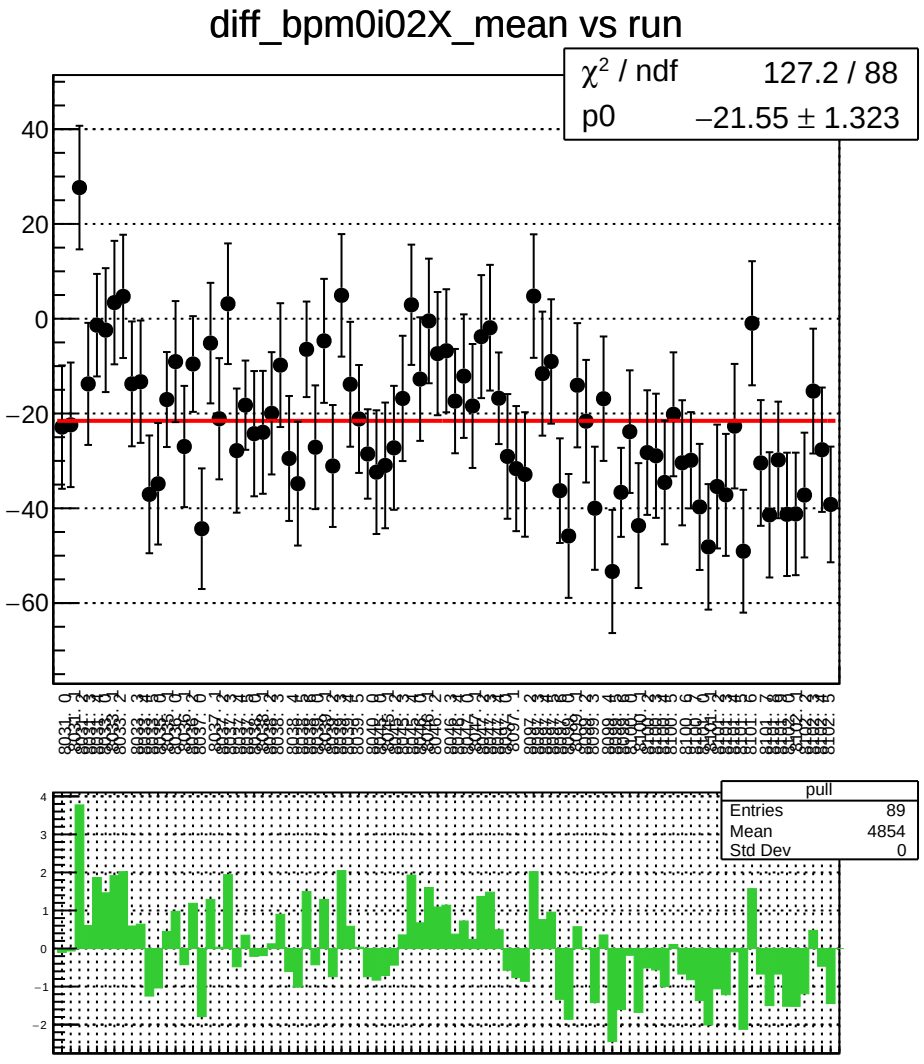

diff_bpm2i02X_mean vs run
χ² / ndf 258.3 / 88
p0 −41.91 ± 0.6687
pull
Entries 89
Mean 293.9
Std Dev 0

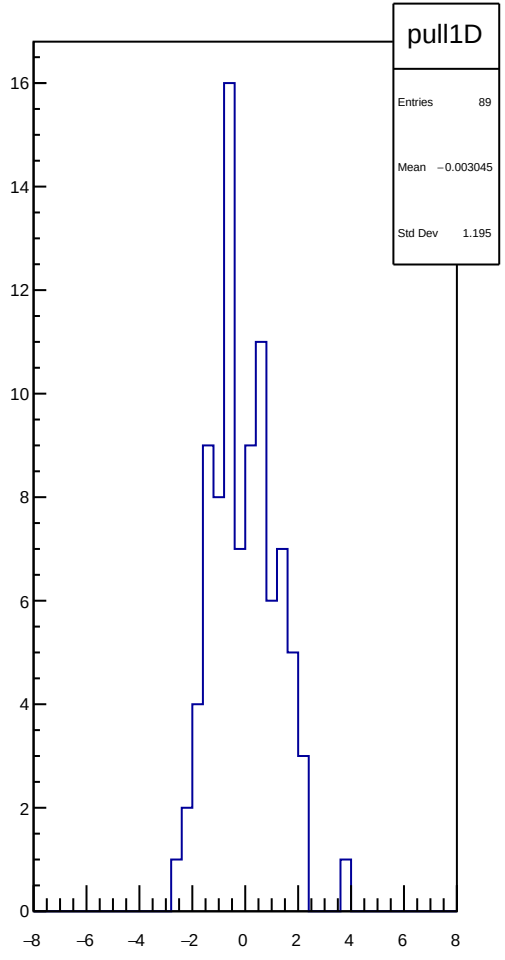

pull1D
Entries 89
Mean 0.0222
Std Dev 1.703

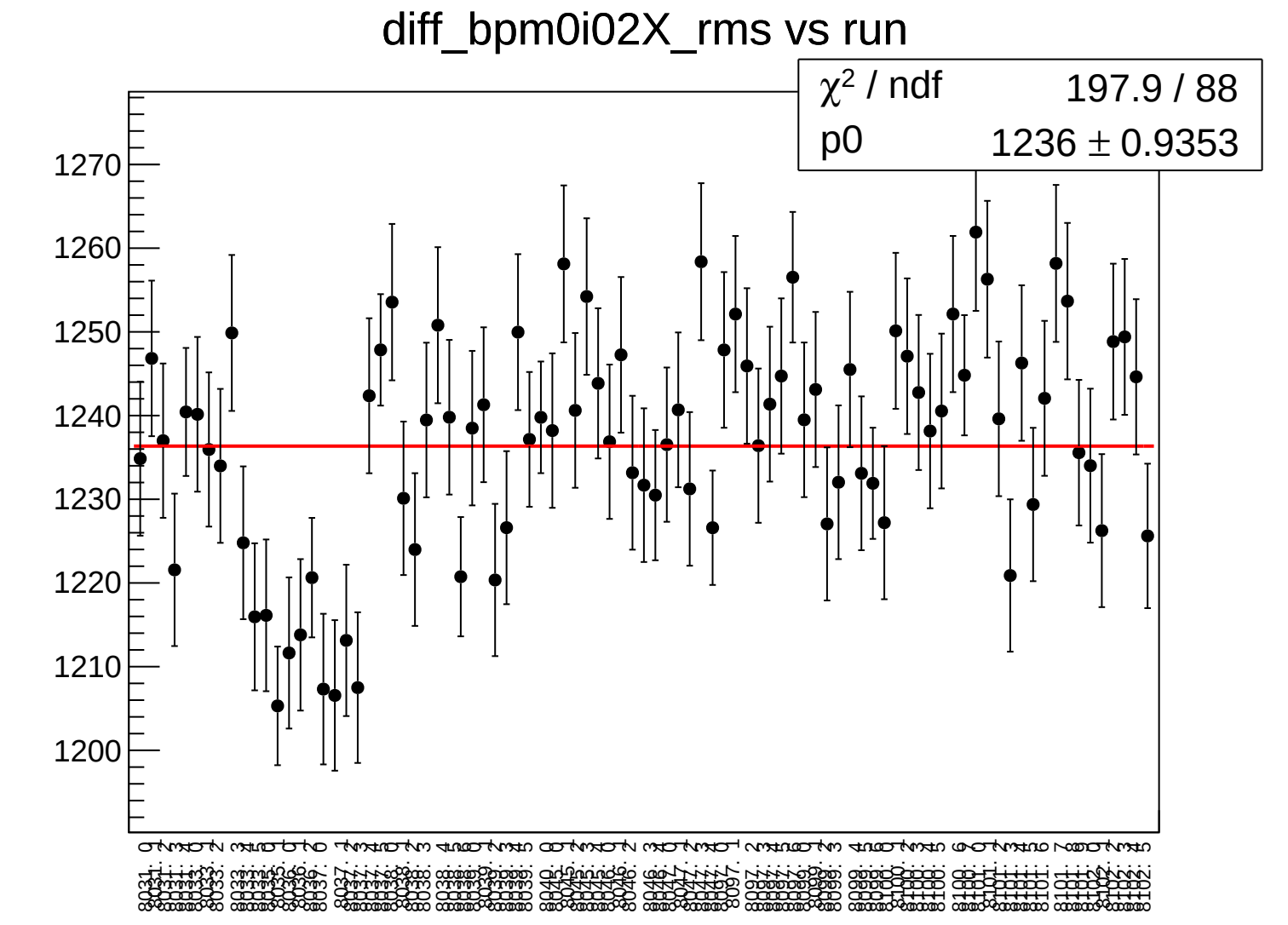

diff_bpm2i02X_rms vs run
χ² / ndf 840.4 / 88
p0 624.9 ± 0.4728
680
670
660
650
640
630
620
610
600

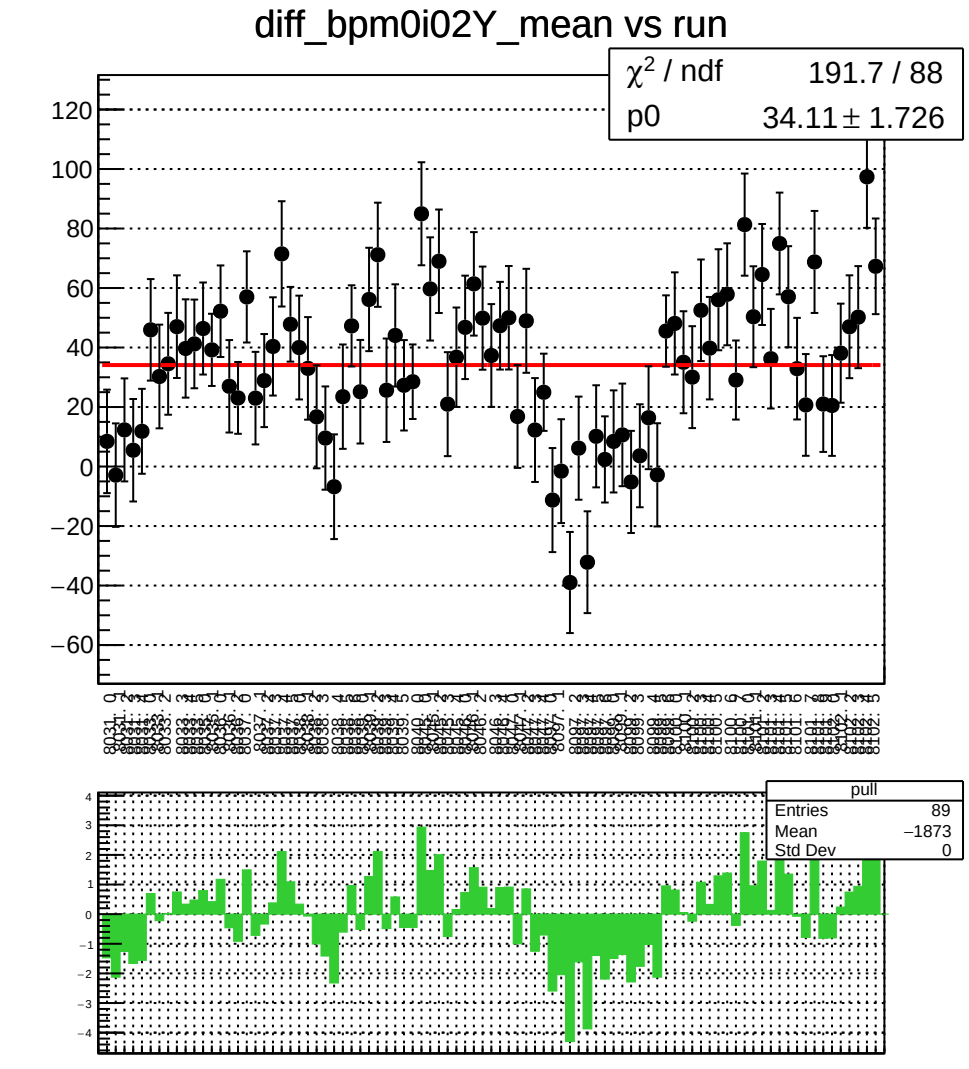

diff_bpm2i02Y_mean vs run
χ² / ndf 286.8 / 88
p0 45.86 ± 0.6592
pull
Entries 89
Mean 22.96
Std Dev 0
pull1D
Entries 89
Mean −0.04867
Std Dev 1.794

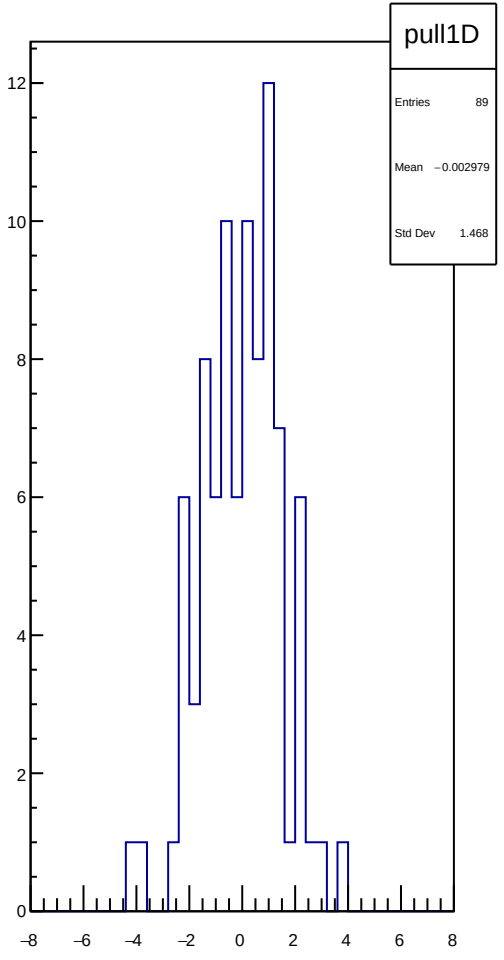

diff_bpm2i02Y_rms vs run
$\chi^2$ / ndf 984.9 / 88
p0 616 ± 0.4661
670
660
650
640
630
620
610
600
590

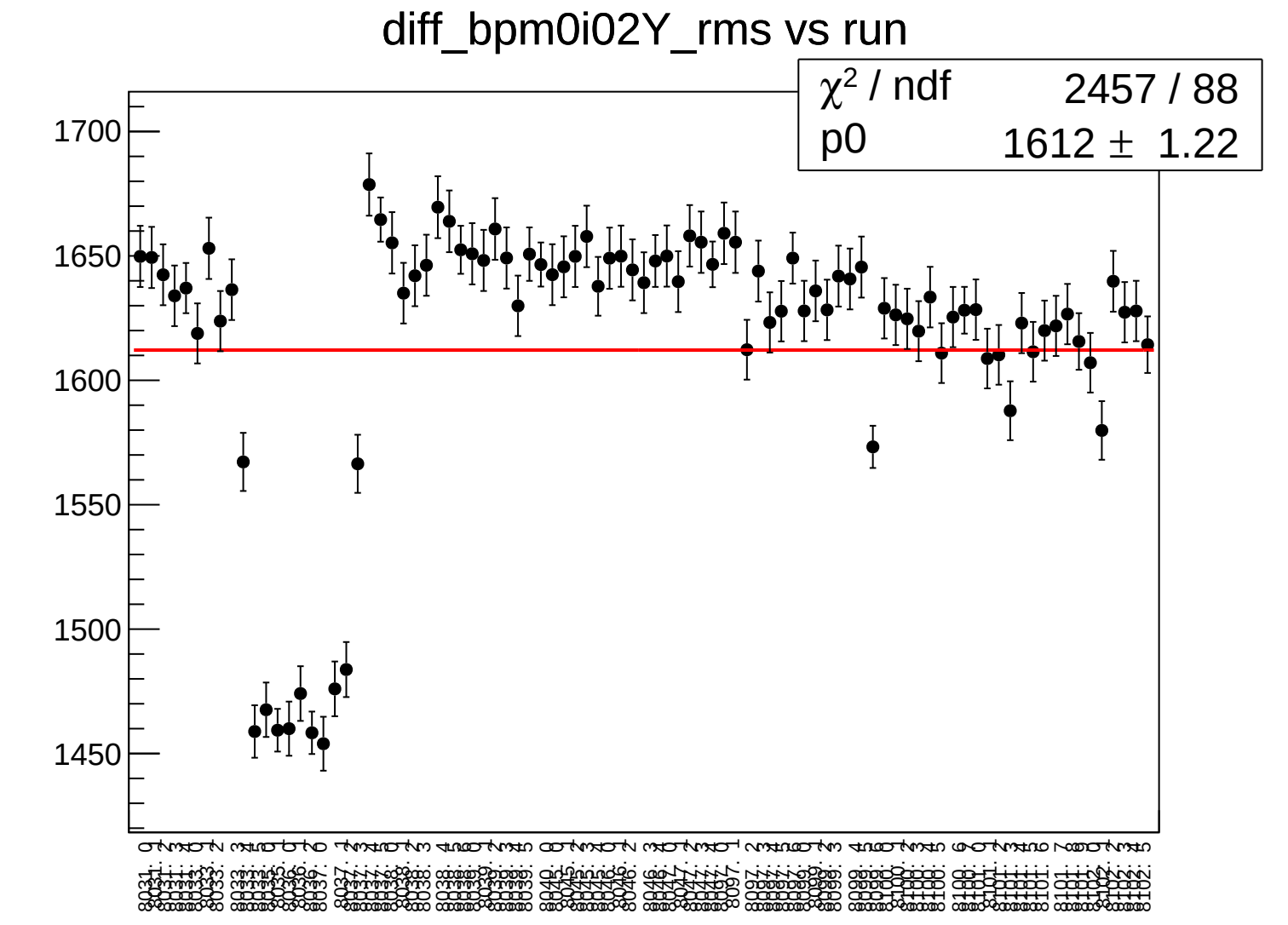

diff_bpm0i02X_mean vs run
χ² / ndf 127.2 / 88
p0 −21.55 ± 1.323
40
20
0
−20
−40
−60
pull
Entries 89
Mean 4854
Std Dev 0
4
3
2
1
0
−1
−2

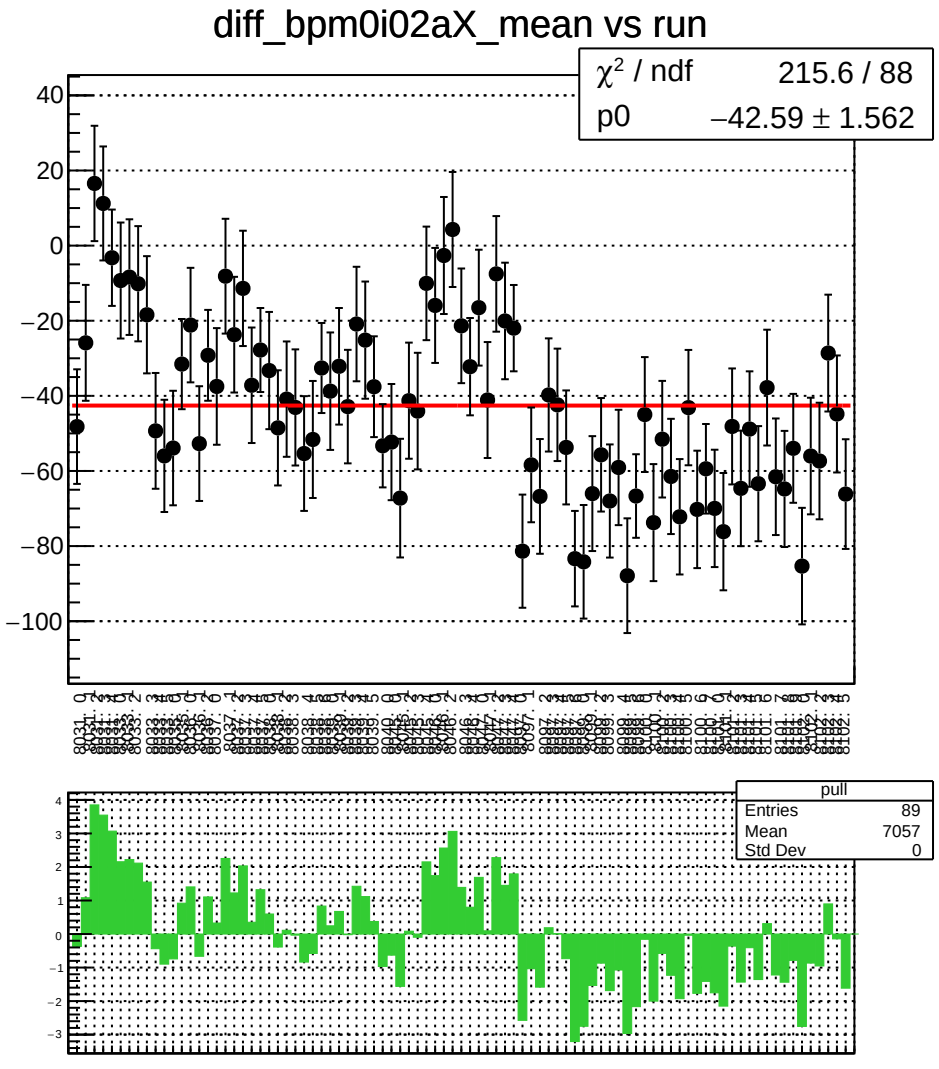

pull1D
Entries 89
Mean −0.003045
Std Dev 1.195
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

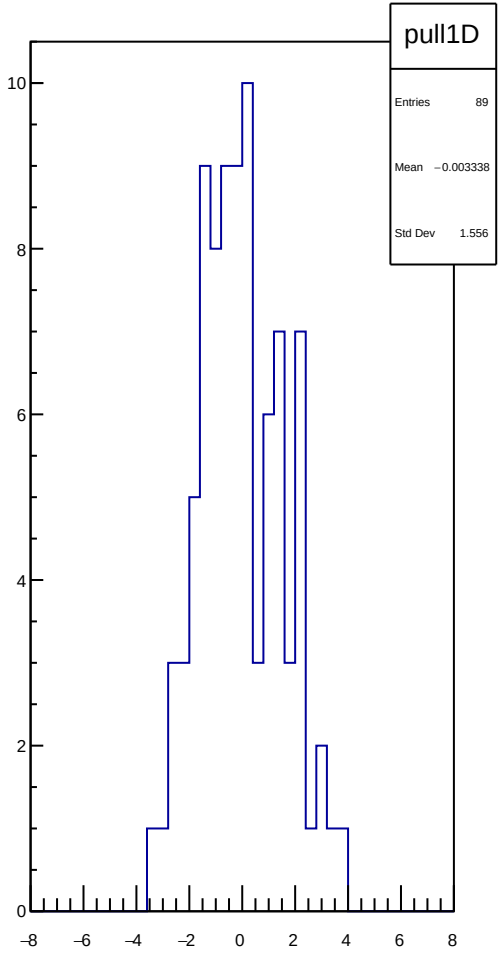

diff_bpm0i02X_rms vs run
χ² / ndf 197.9 / 88
p0 1236 ± 0.9353
1270
1260
1250
1240
1230
1220
1210
1200

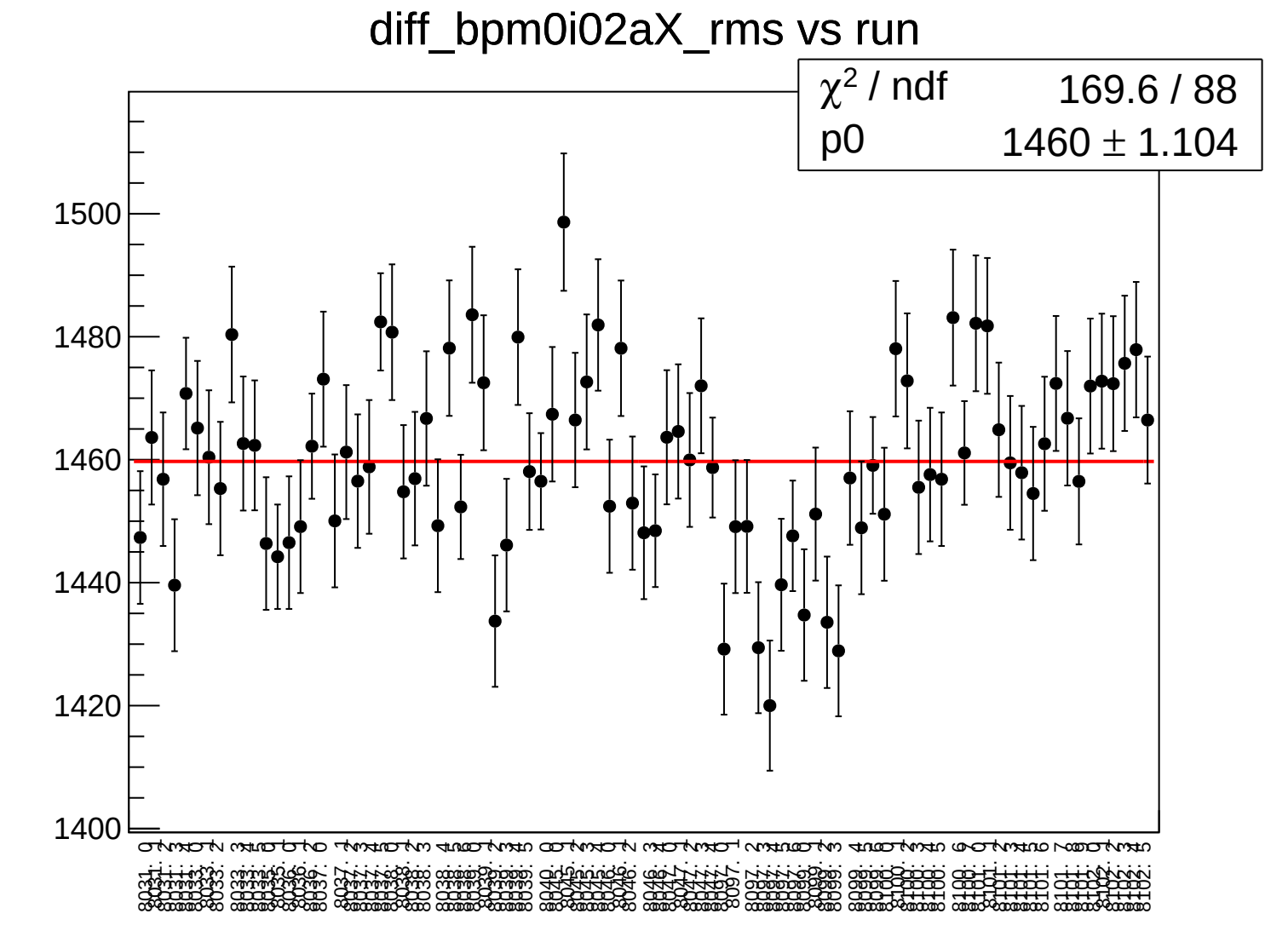

diff_bpm0i02Y_mean vs run
χ² / ndf 191.7 / 88
p0 34.11 ± 1.726
pull
Entries 89
Mean −1873
Std Dev 0

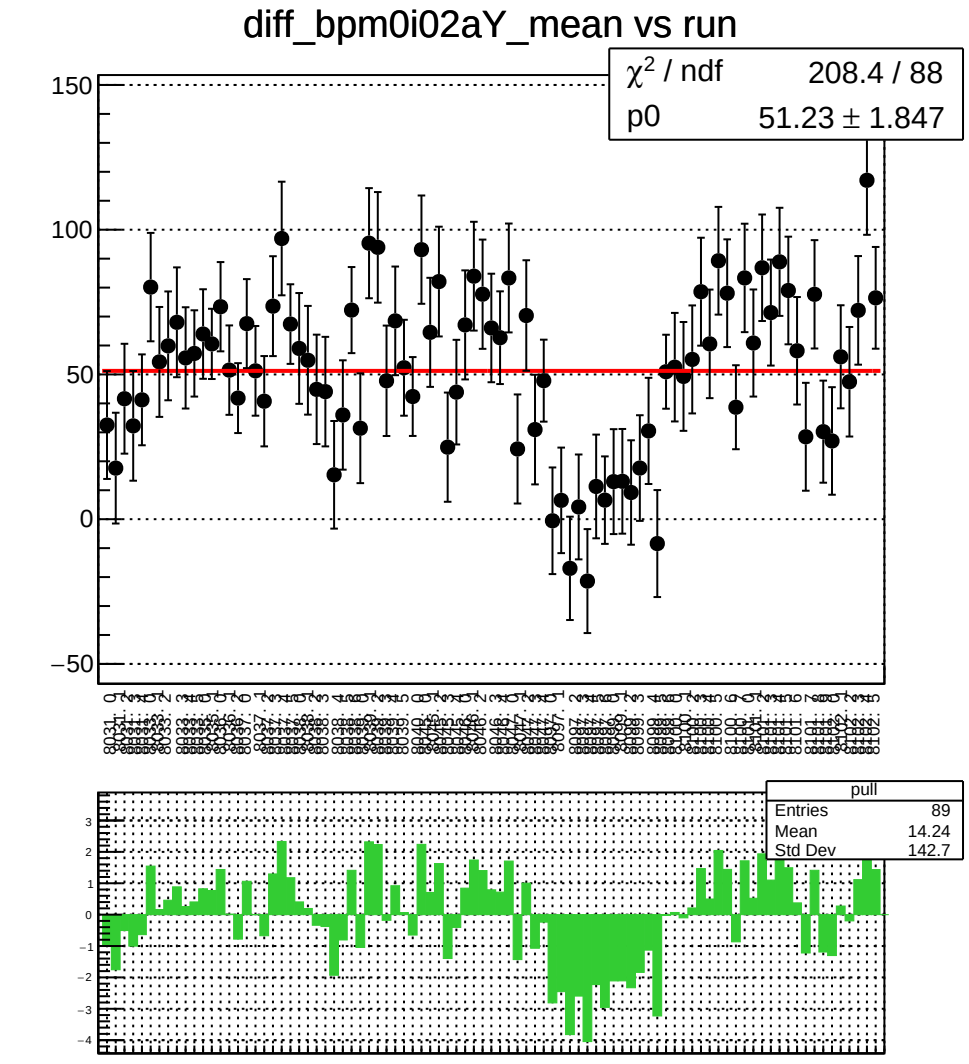

pull1D
Entries 89
Mean −0.002979
Std Dev 1.468

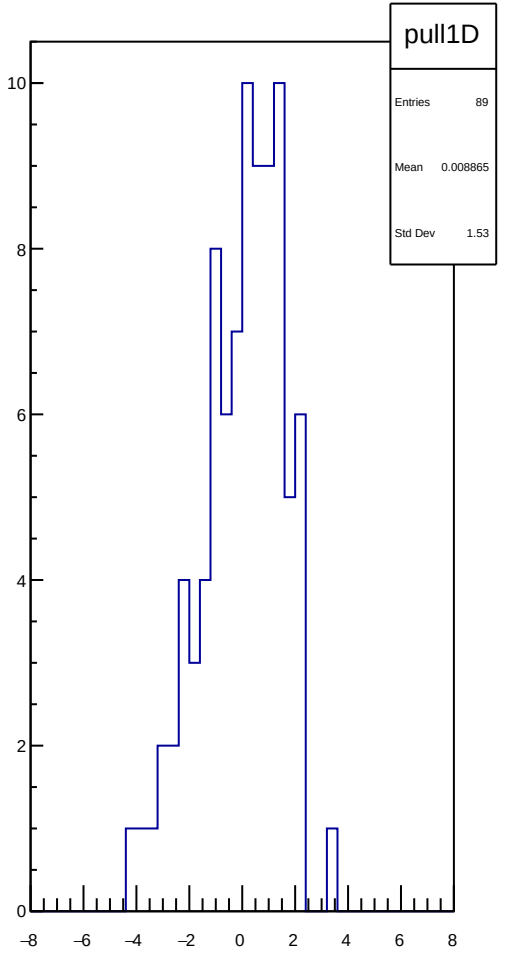

diff_bpm0i02Y_rms vs run
χ² / ndf 2457 / 88
p0 1612 ± 1.22
1700
1650
1600
1550
1500
1450

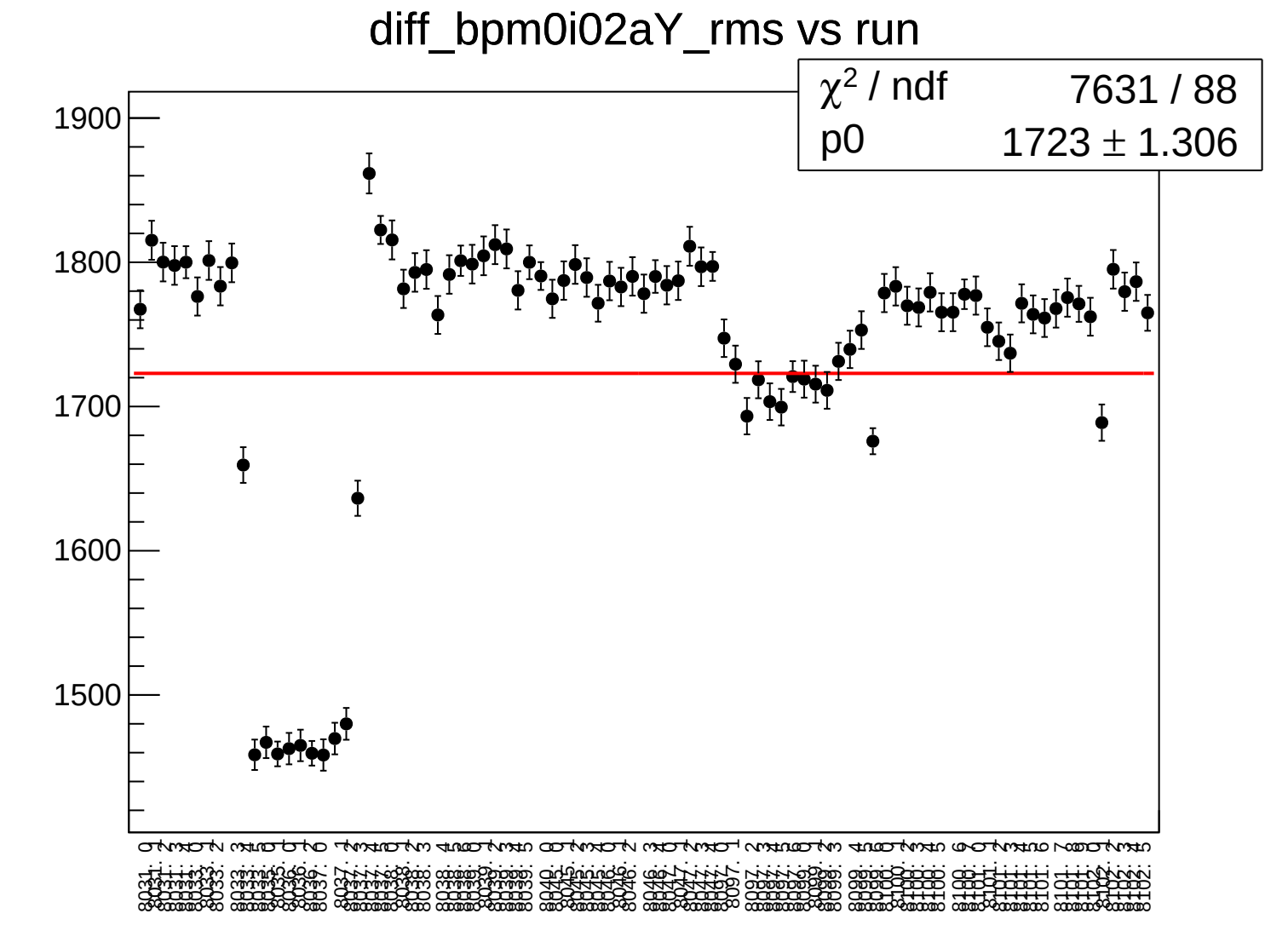

diff_bpm0i02aX_mean vs run
χ² / ndf 215.6 / 88
p0 −42.59 ± 1.562
pull
Entries 89
Mean 7057
Std Dev 0

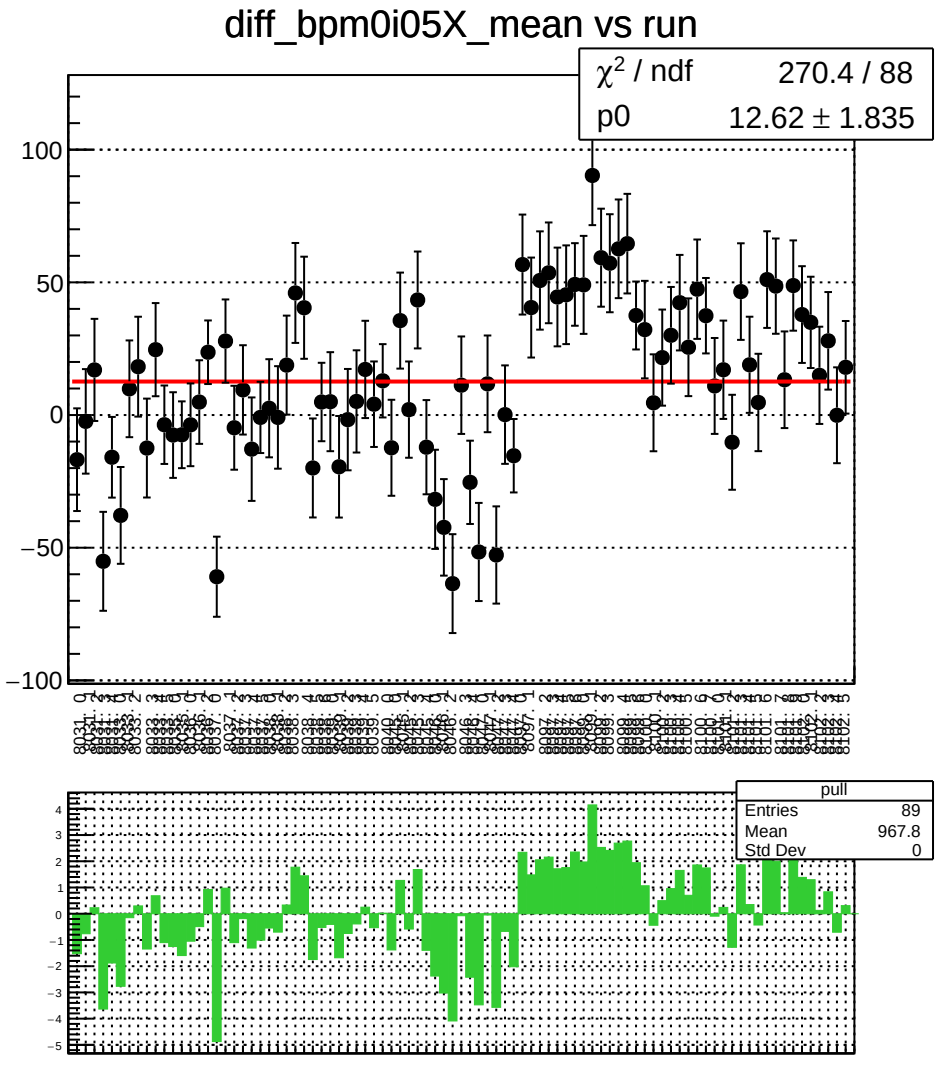

pull1D
Entries 89
Mean −0.003338
Std Dev 1.556

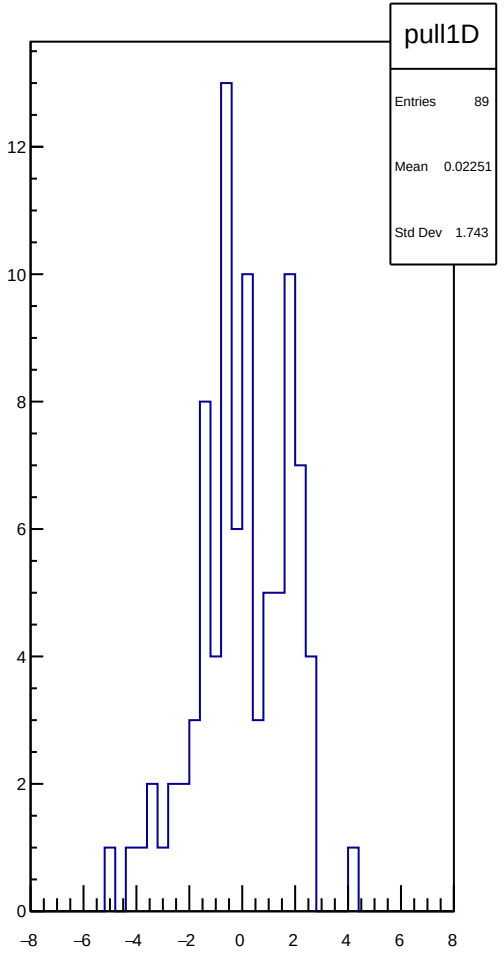

diff_bpm0i02aX_rms vs run
χ² / ndf 169.6 / 88
p0 1460 ± 1.104
1500
1480
1460
1440
1420
1400

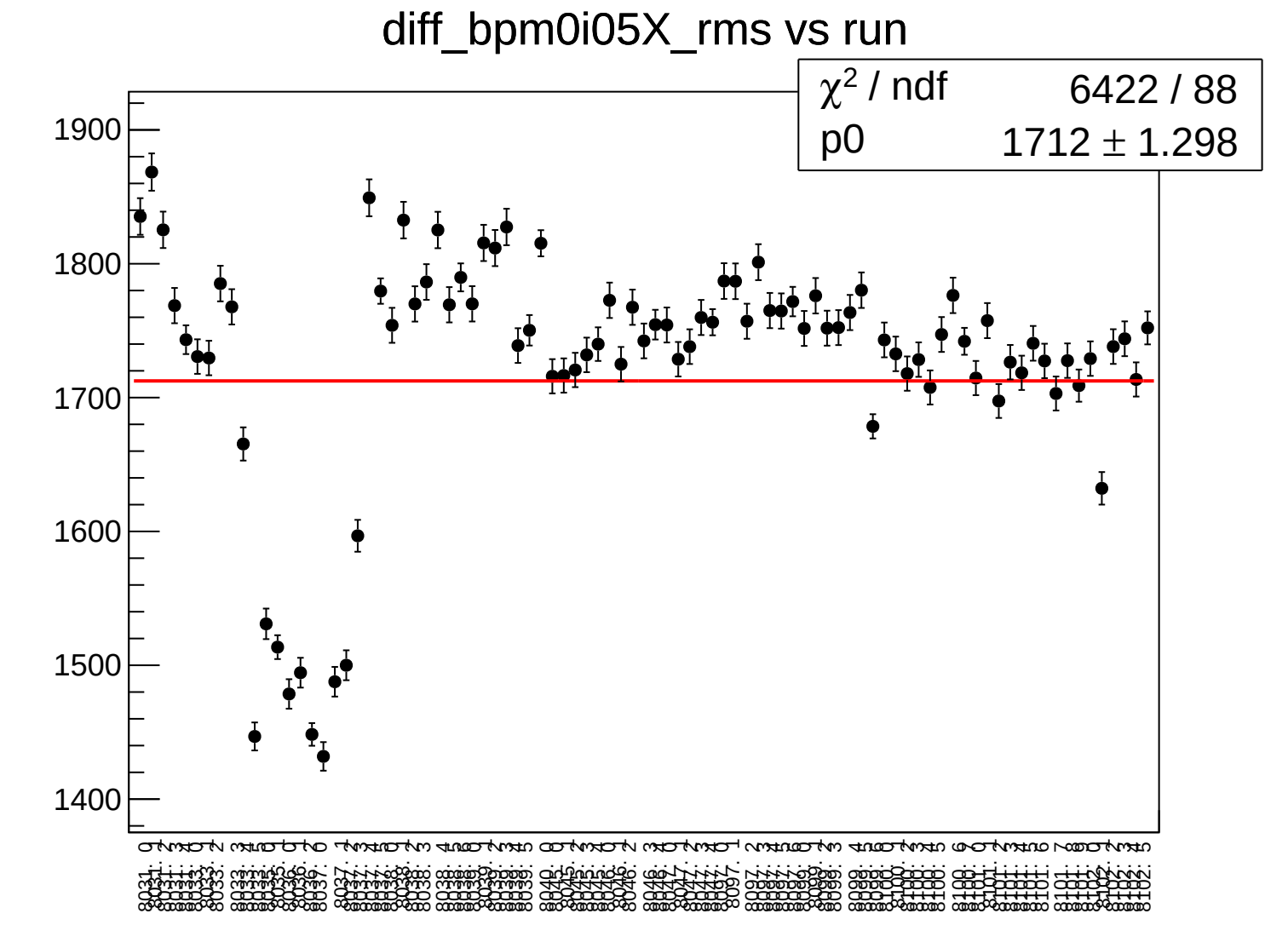

diff_bpm0i02aY_mean vs run
χ² / ndf 208.4 / 88
p0 51.23 ± 1.847
150
100
50
0
−50
pull
Entries 89
Mean 14.24
Std Dev 142.7
3
2
1
0
−1
−2
−3
−4

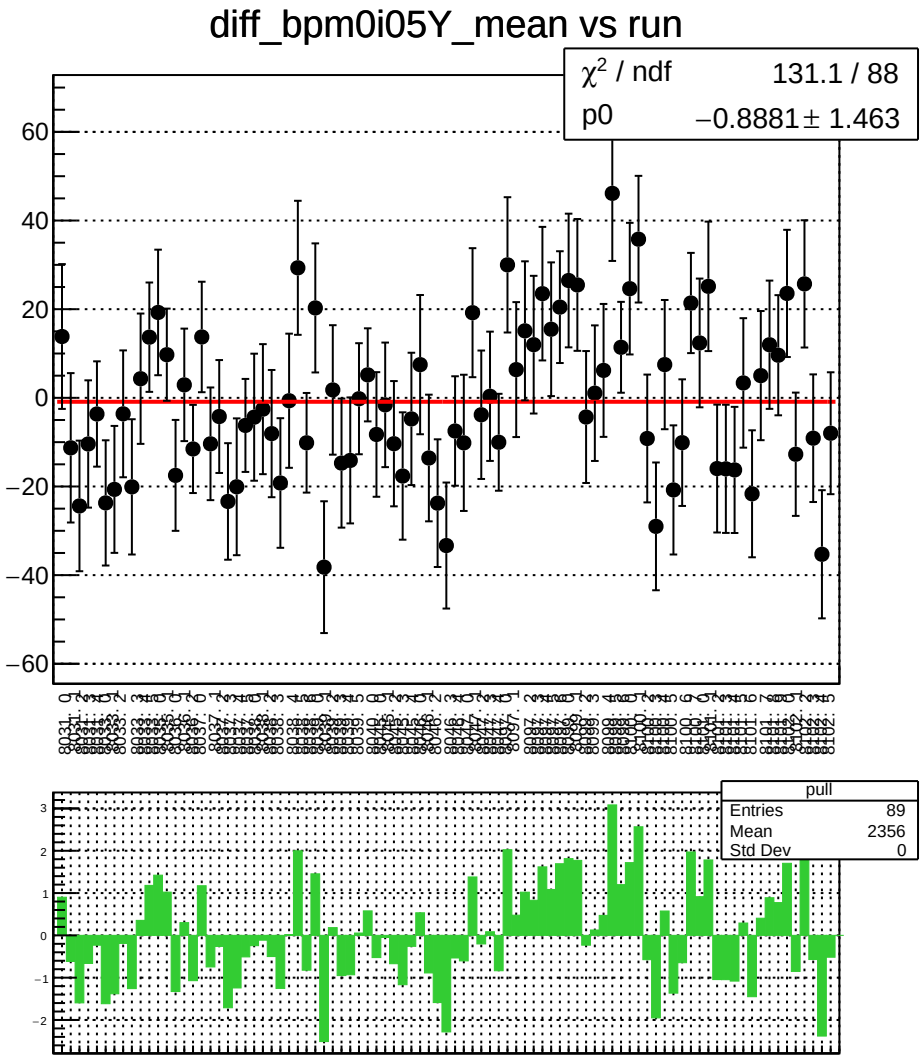

pull1D
Entries 89
Mean 0.008865
Std Dev 1.53
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

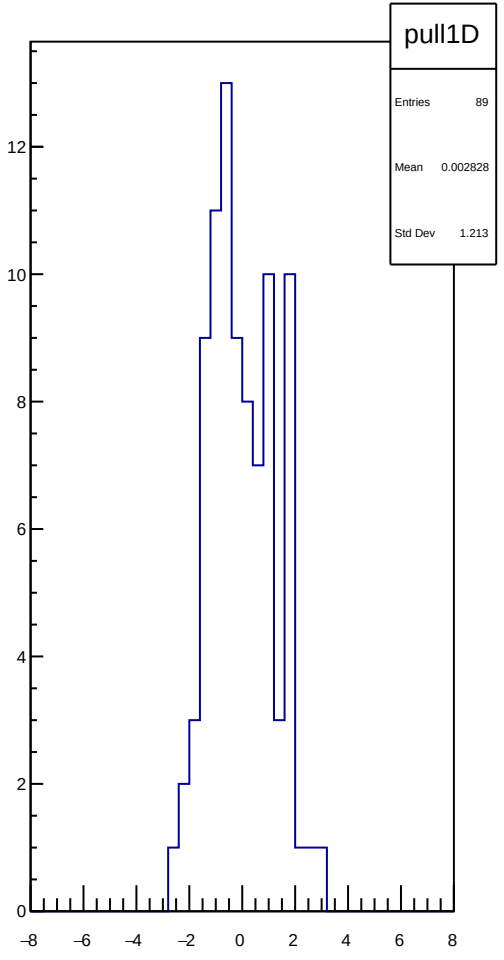

diff_bpm0i02aY_rms vs run
χ² / ndf 7631 / 88
p0 1723 ± 1.306
1900
1800
1700
1600
1500

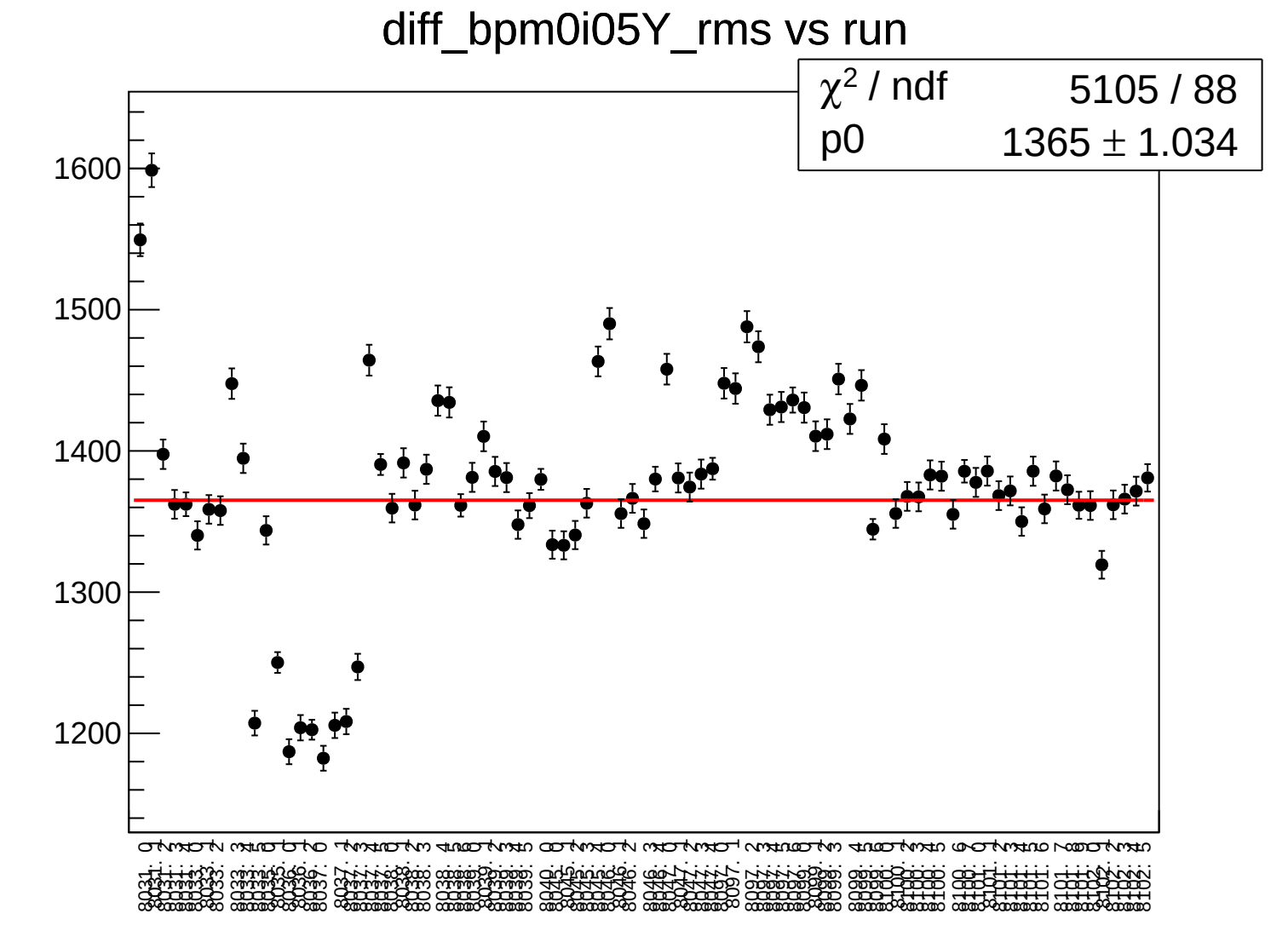

diff_bpm0i05X_mean vs run
$\chi^2$ / ndf 270.4 / 88
p0 12.62 ± 1.835
100
50
0
−50
−100
pull
Entries 89
Mean 967.8
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4
−5

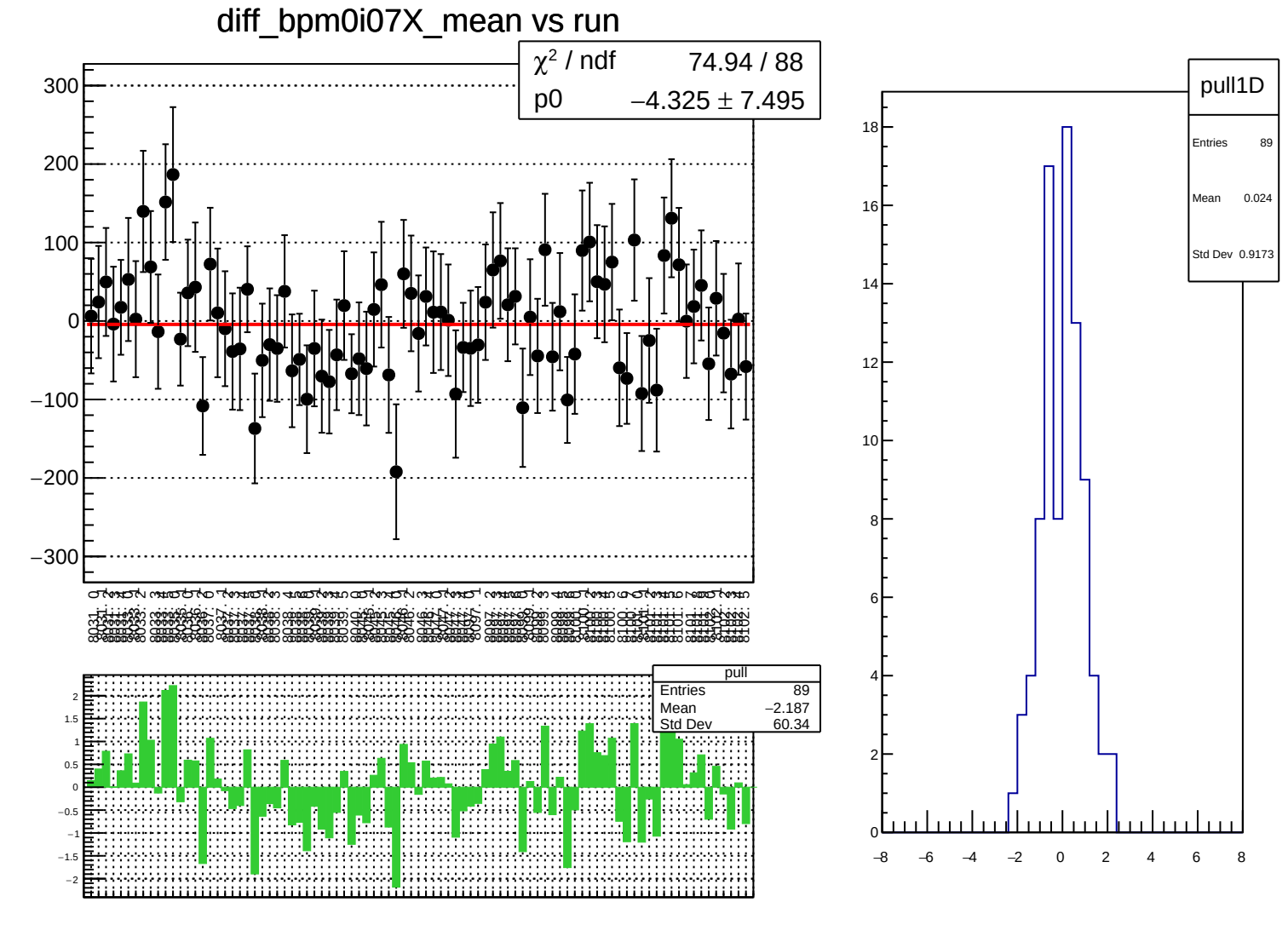

pull1D
Entries 89
Mean 0.02251
Std Dev 1.743
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

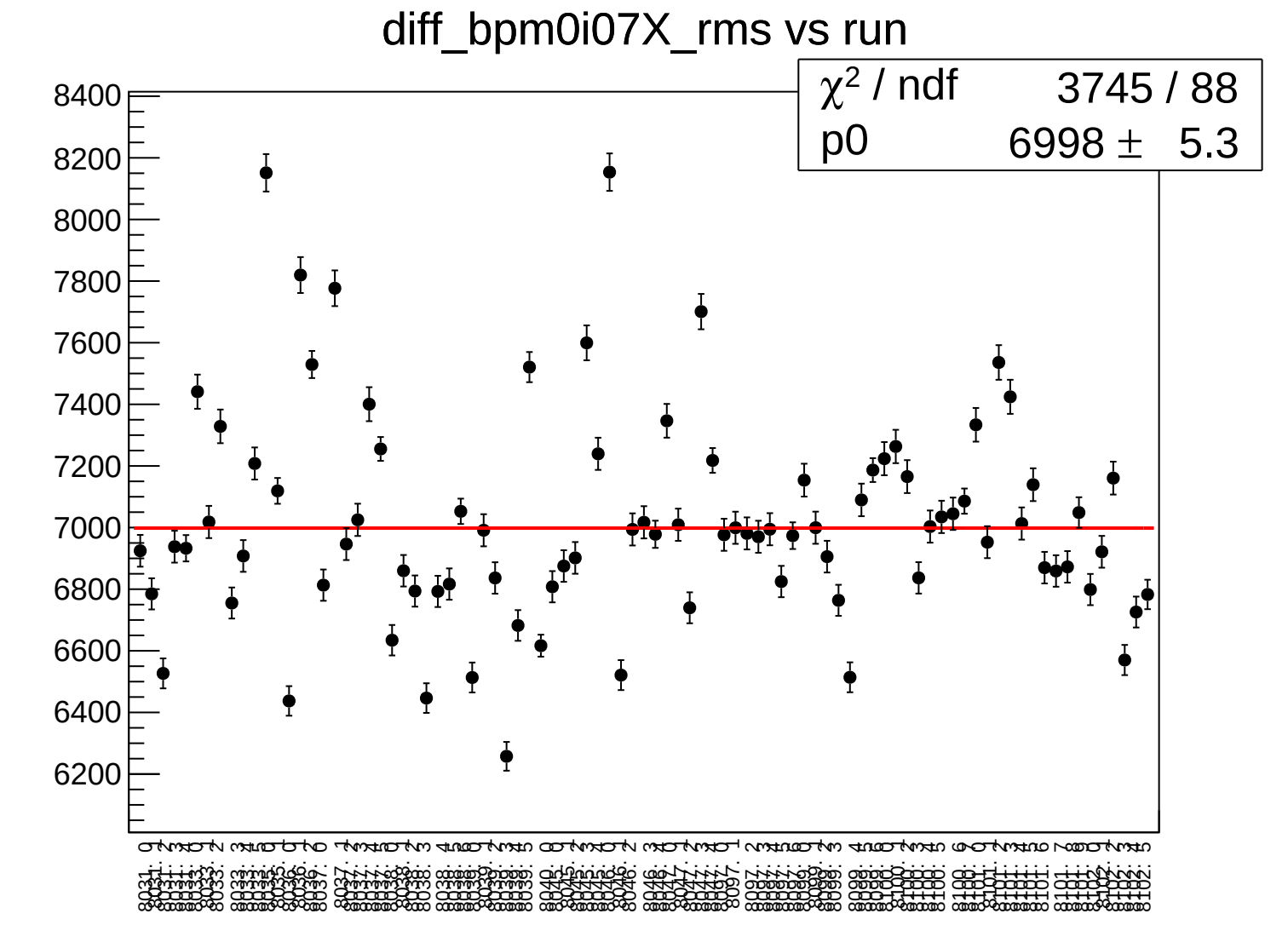

diff_bpm0i05X_rms vs run
χ² / ndf 6422 / 88
p0 1712 ± 1.298
1900
1800
1700
1600
1500
1400

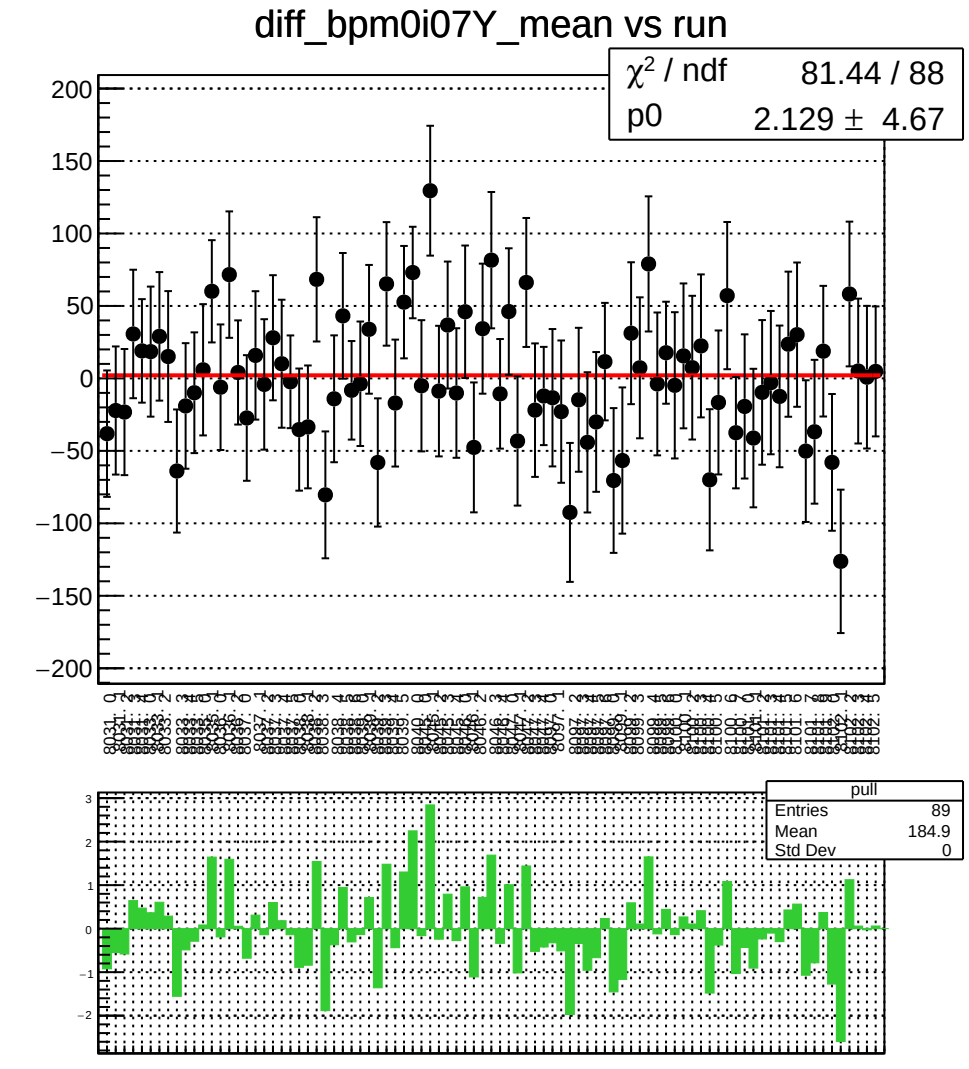

diff_bpm0i05Y_mean vs run
χ² / ndf 131.1 / 88
p0 −0.8881 ± 1.463
pull
Entries 89
Mean 2356
Std Dev 0

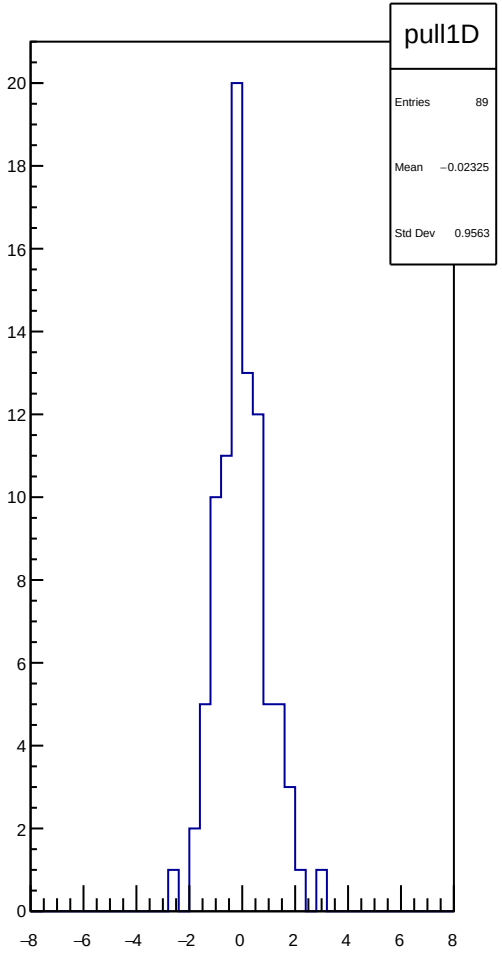

pull1D
Entries 89
Mean 0.002828
Std Dev 1.213

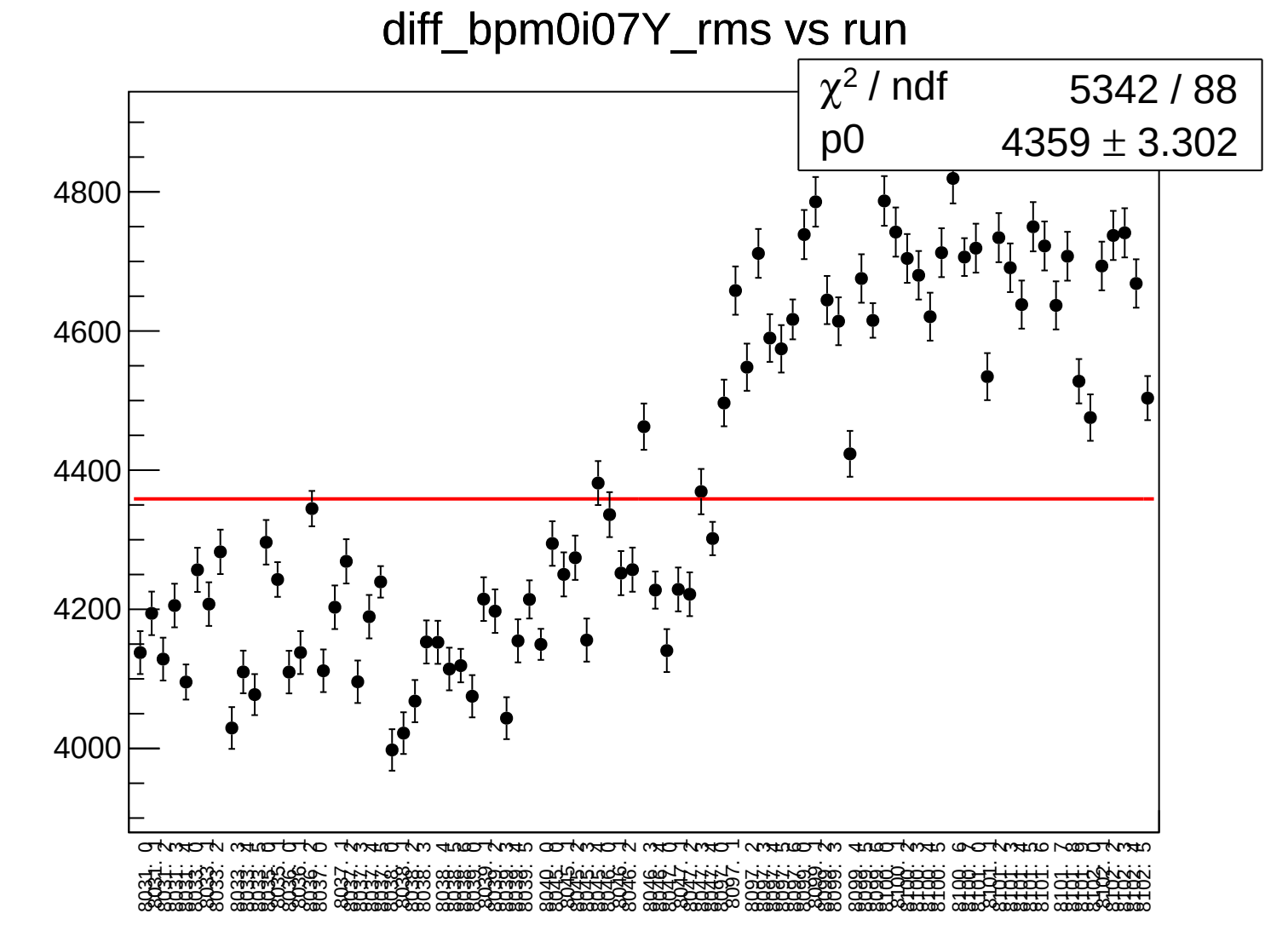

diff_bpm0i05Y_rms vs run
χ² / ndf 5105 / 88
p0 1365 ± 1.034
1600
1500
1400
1300
1200

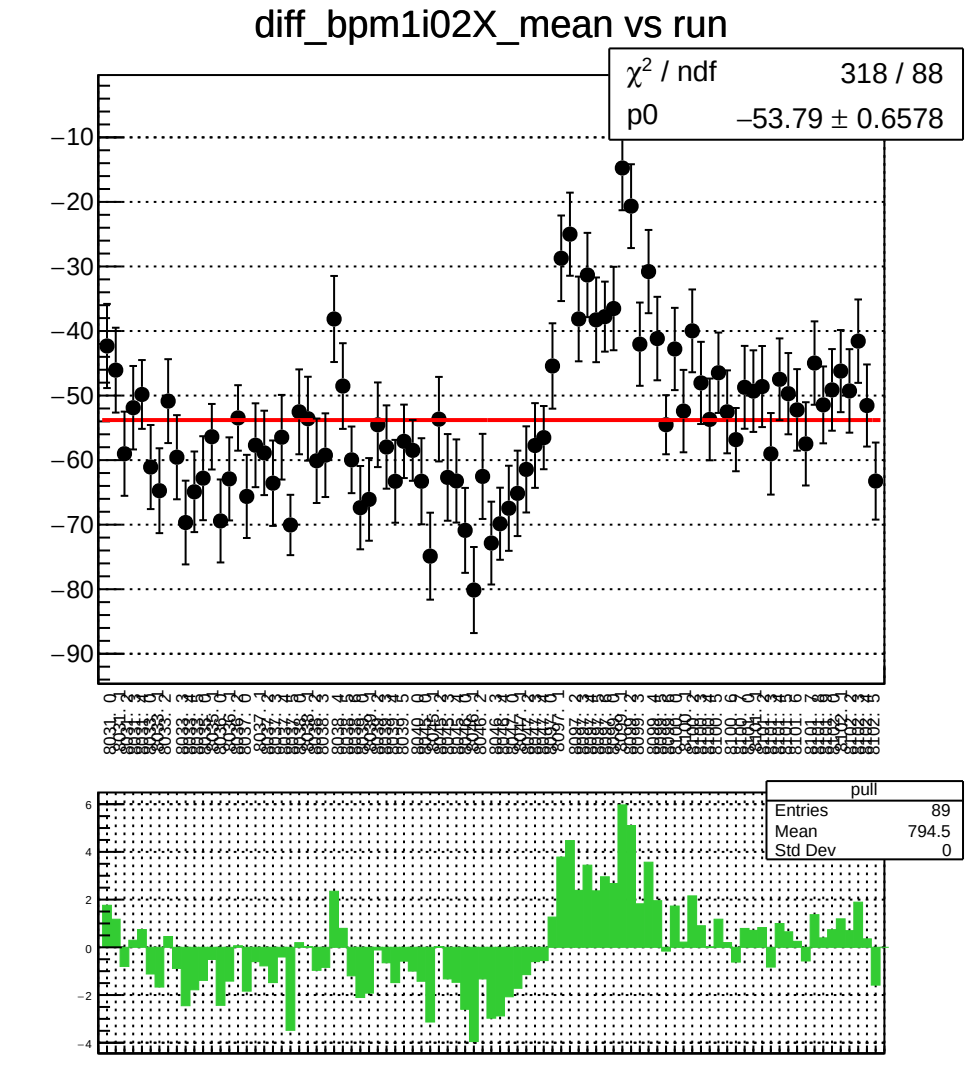

diff_bpm0i07X_mean vs run
χ² / ndf 74.94 / 88
p0 −4.325 ± 7.495
pull
Entries 89
Mean −2.187
Std Dev 60.34
pull1D
Entries 89
Mean 0.024
Std Dev 0.9173

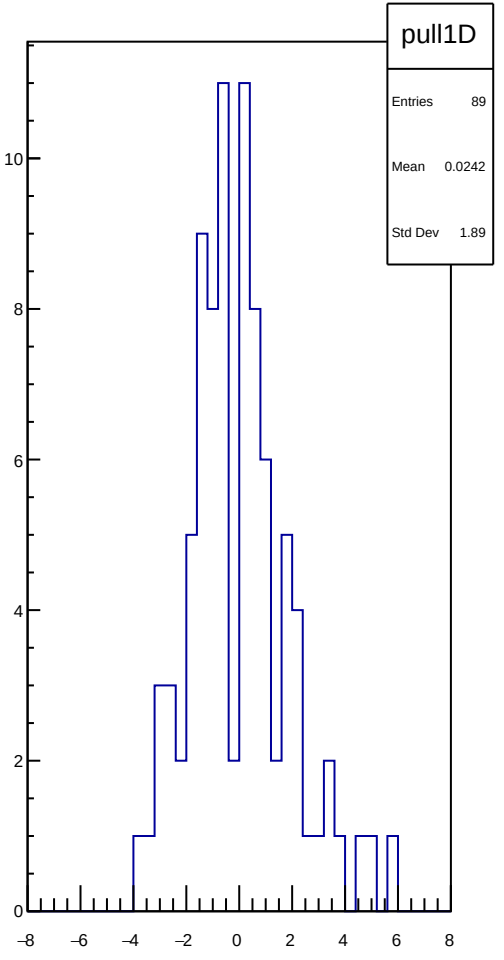

diff_bpm0i07X_rms vs run
χ² / ndf 3745 / 88
p0 6998 ± 5.3
8400
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400
6200

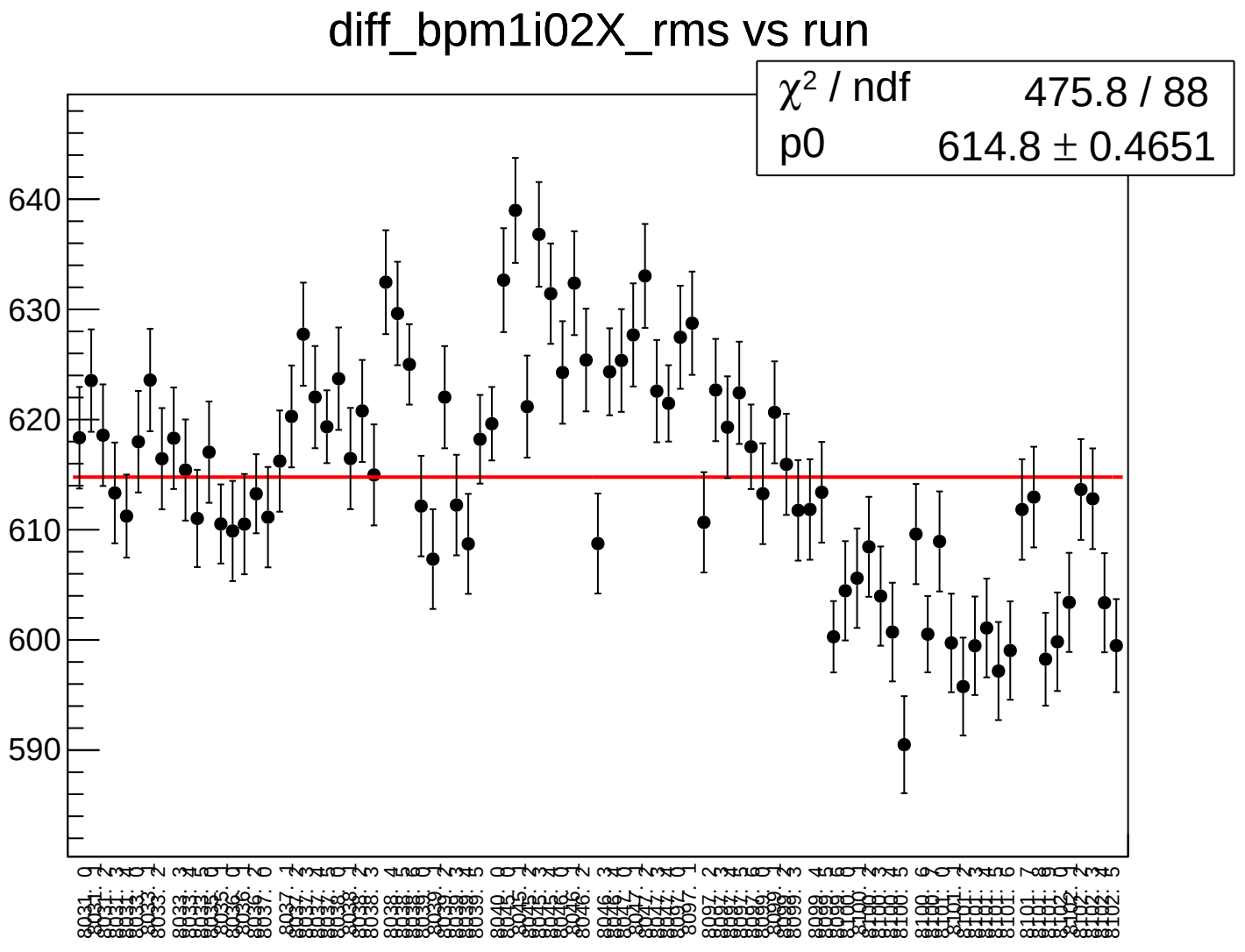

diff_bpm0i07Y_mean vs run
χ² / ndf 81.44 / 88
p0 2.129 ± 4.67
pull
Entries 89
Mean 184.9
Std Dev 0

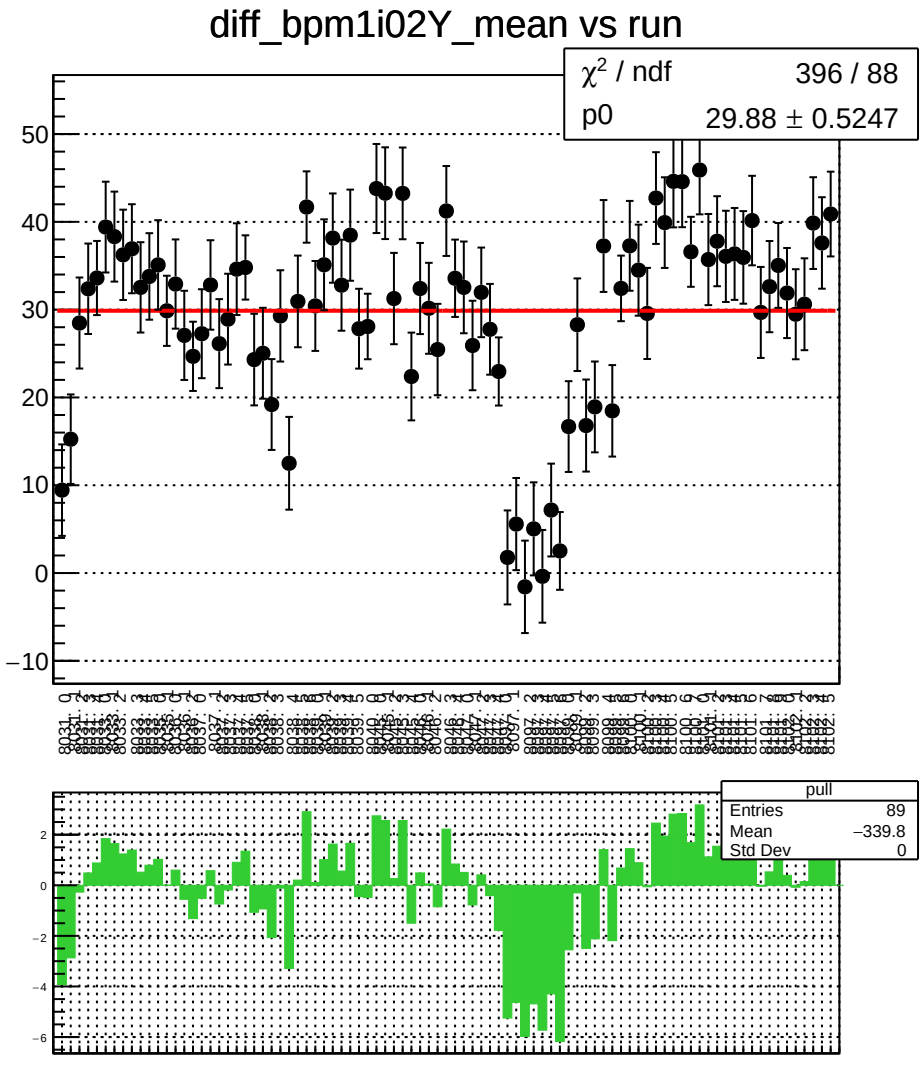

pull1D
Entries 89
Mean −0.02325
Std Dev 0.9563

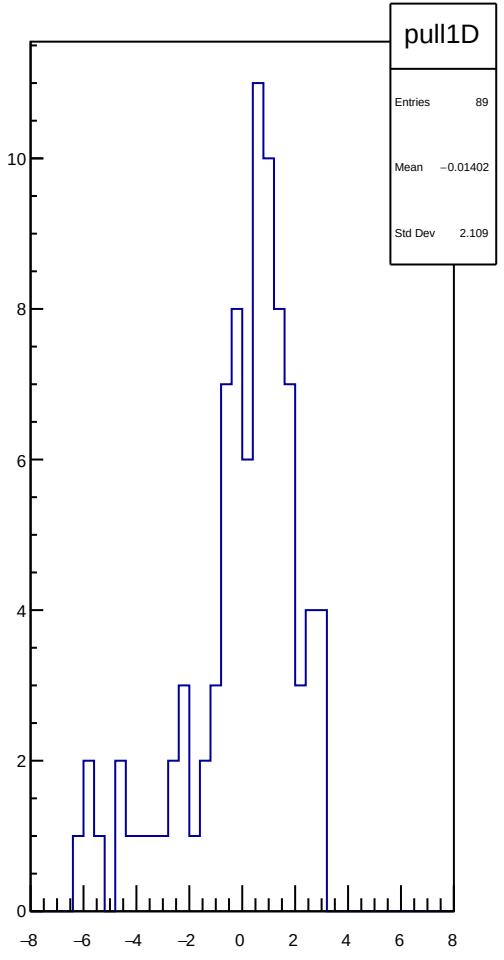

diff_bpm0i07Y_rms vs run
χ² / ndf 5342 / 88
p0 4359 ± 3.302
4800
4600
4400
4200
4000

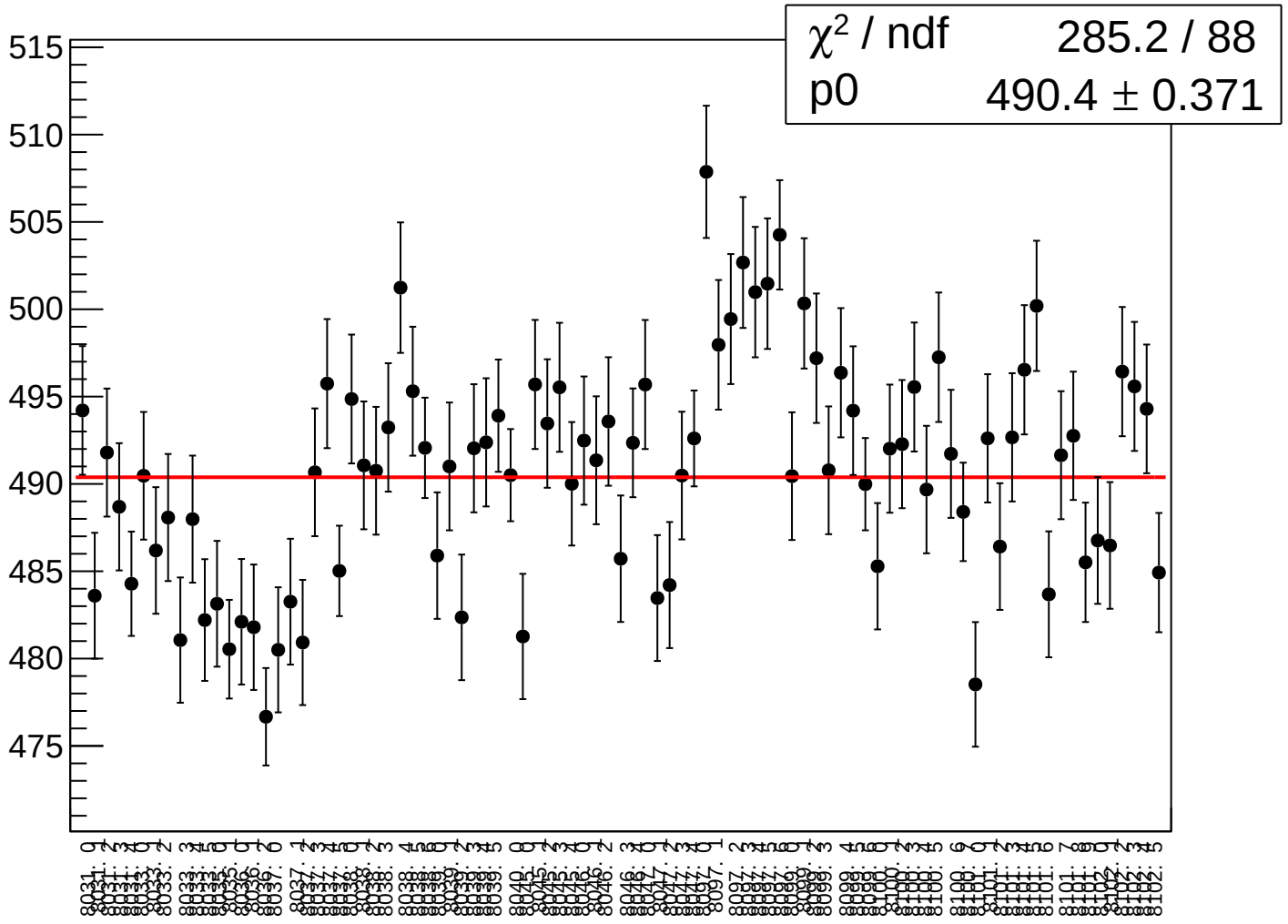

diff_bpm1i02X_mean vs run
χ² / ndf 318 / 88
p0 −53.79 ± 0.6578
pull
Entries 89
Mean 794.5
Std Dev 0

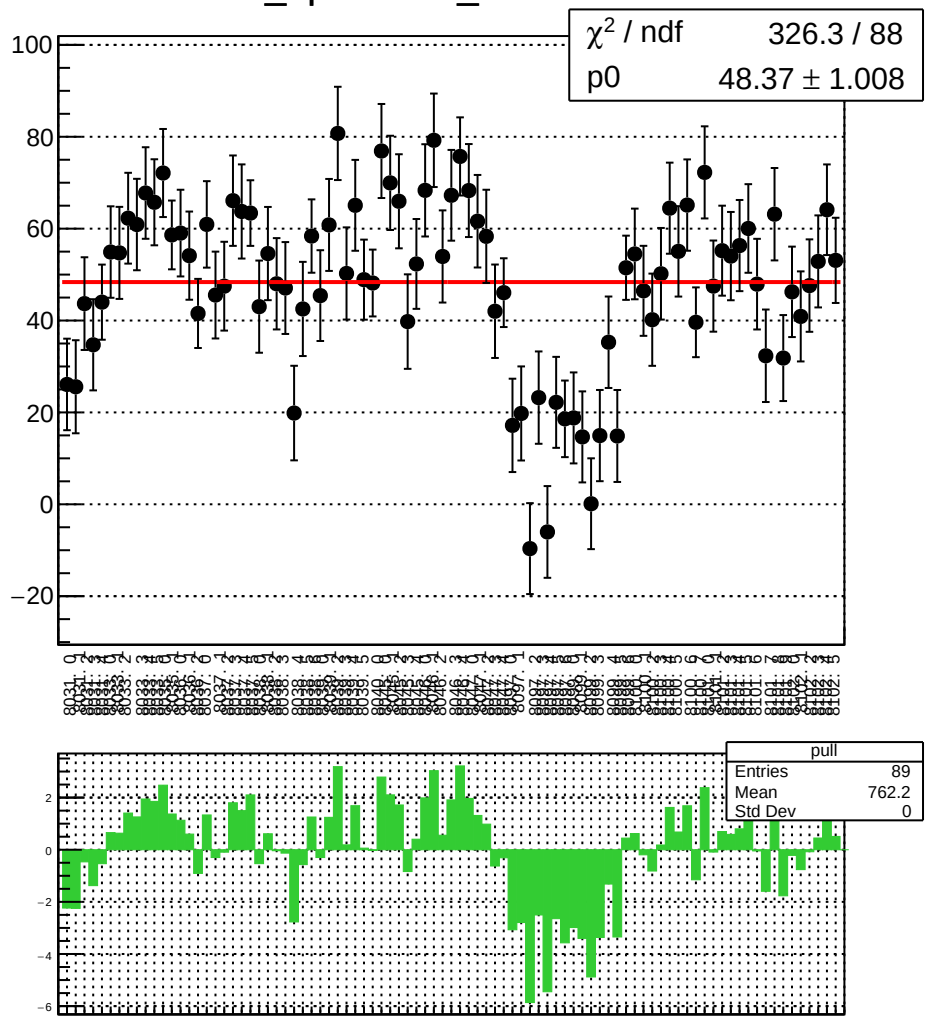

pull1D
Entries 89
Mean 0.0242
Std Dev 1.89

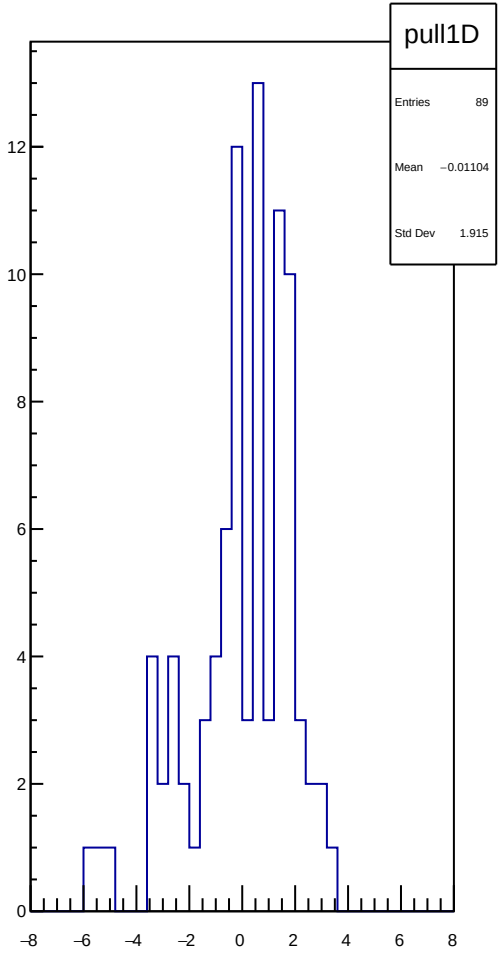

diff_bpm1i02X_rms vs run
χ² / ndf 475.8 / 88
p0 614.8 ± 0.4651
640
630
620
610
600
590

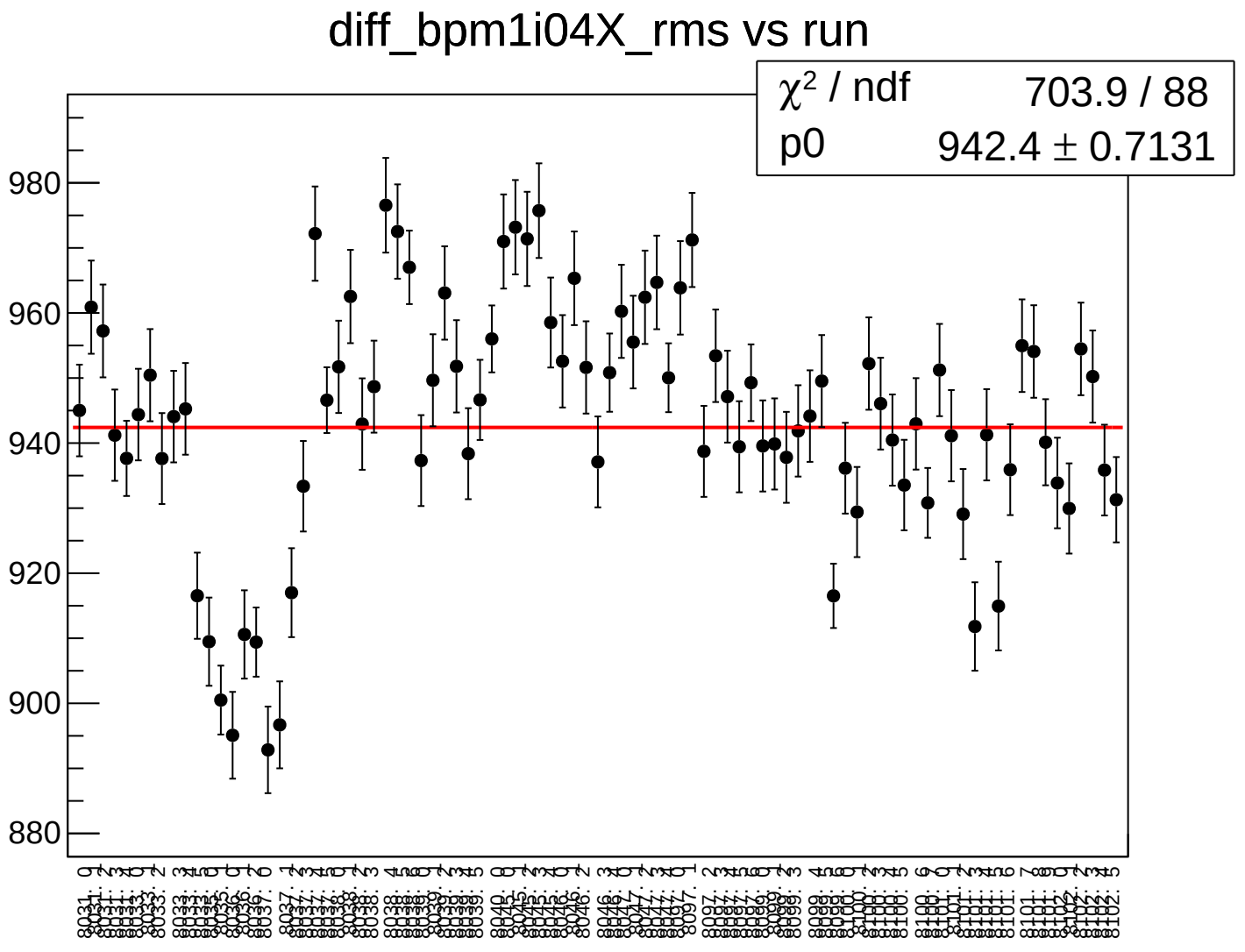

diff_bpm1i02Y_mean vs run
χ² / ndf 396 / 88
p0 29.88 ± 0.5247
pull
Entries 89
Mean −339.8
Std Dev 0

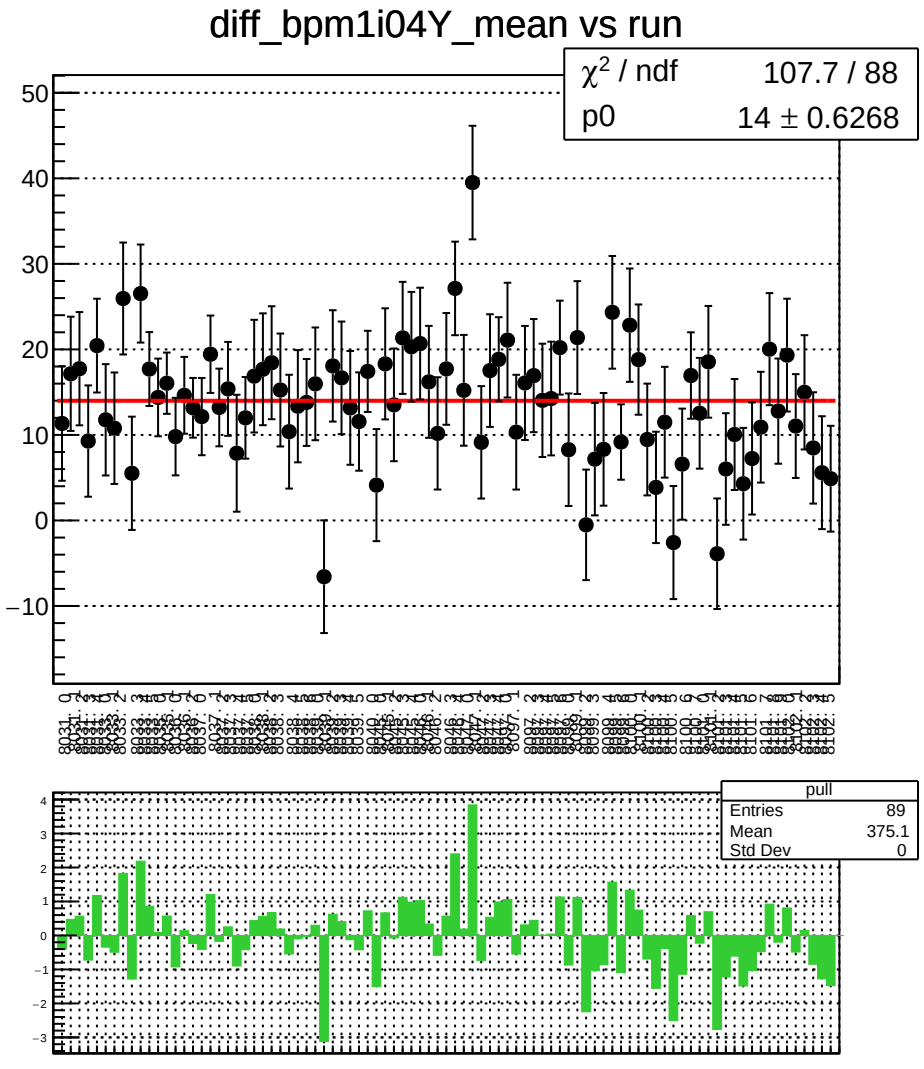

pull1D
Entries 89
Mean −0.01402
Std Dev 2.109

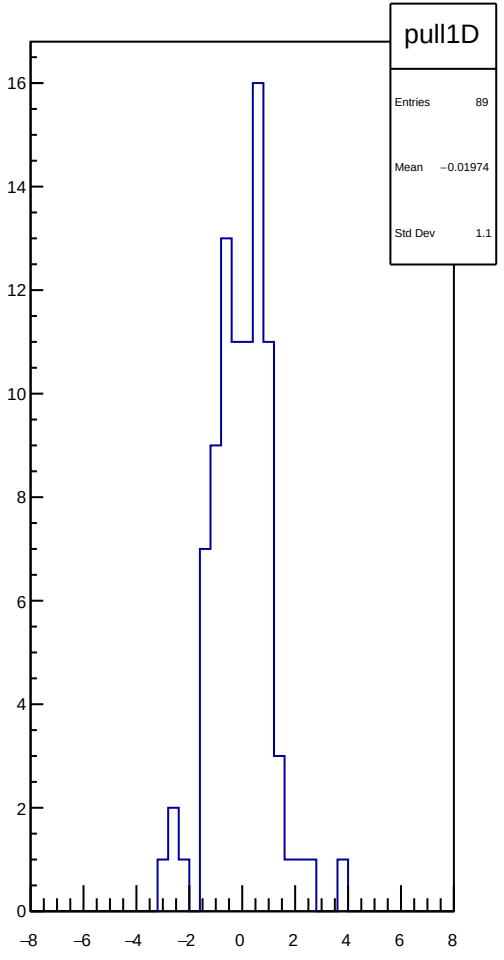

diff_bpm1i02Y_rms vs run
χ² / ndf 285.2 / 88
p0 490.4 ± 0.371
515
510
505
500
495
490
485
480
475

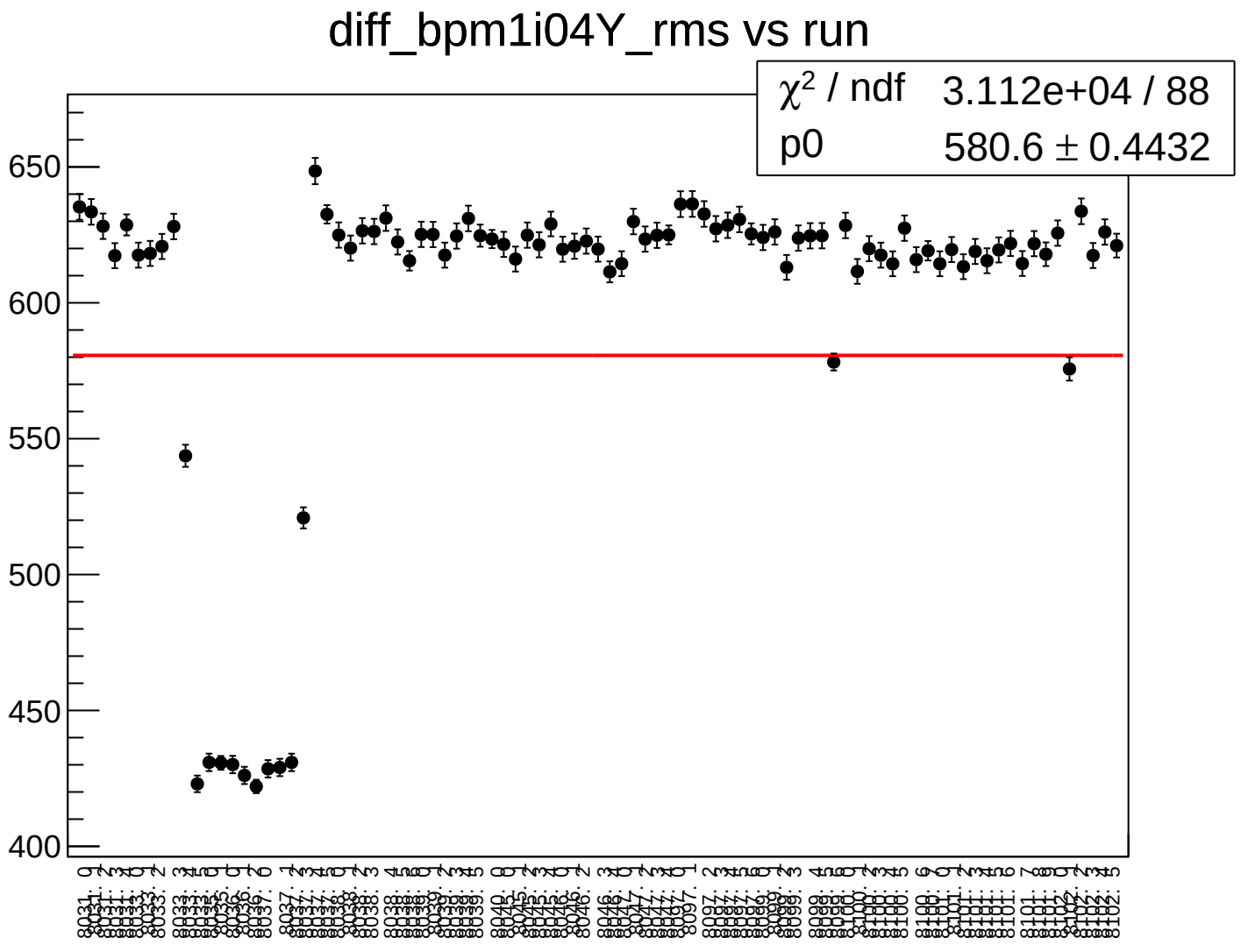

diff_bpm1i04X_mean vs run
$\chi^2$ / ndf 326.3 / 88
p0 48.37 ± 1.008
pull
Entries 89
Mean 762.2
Std Dev 0

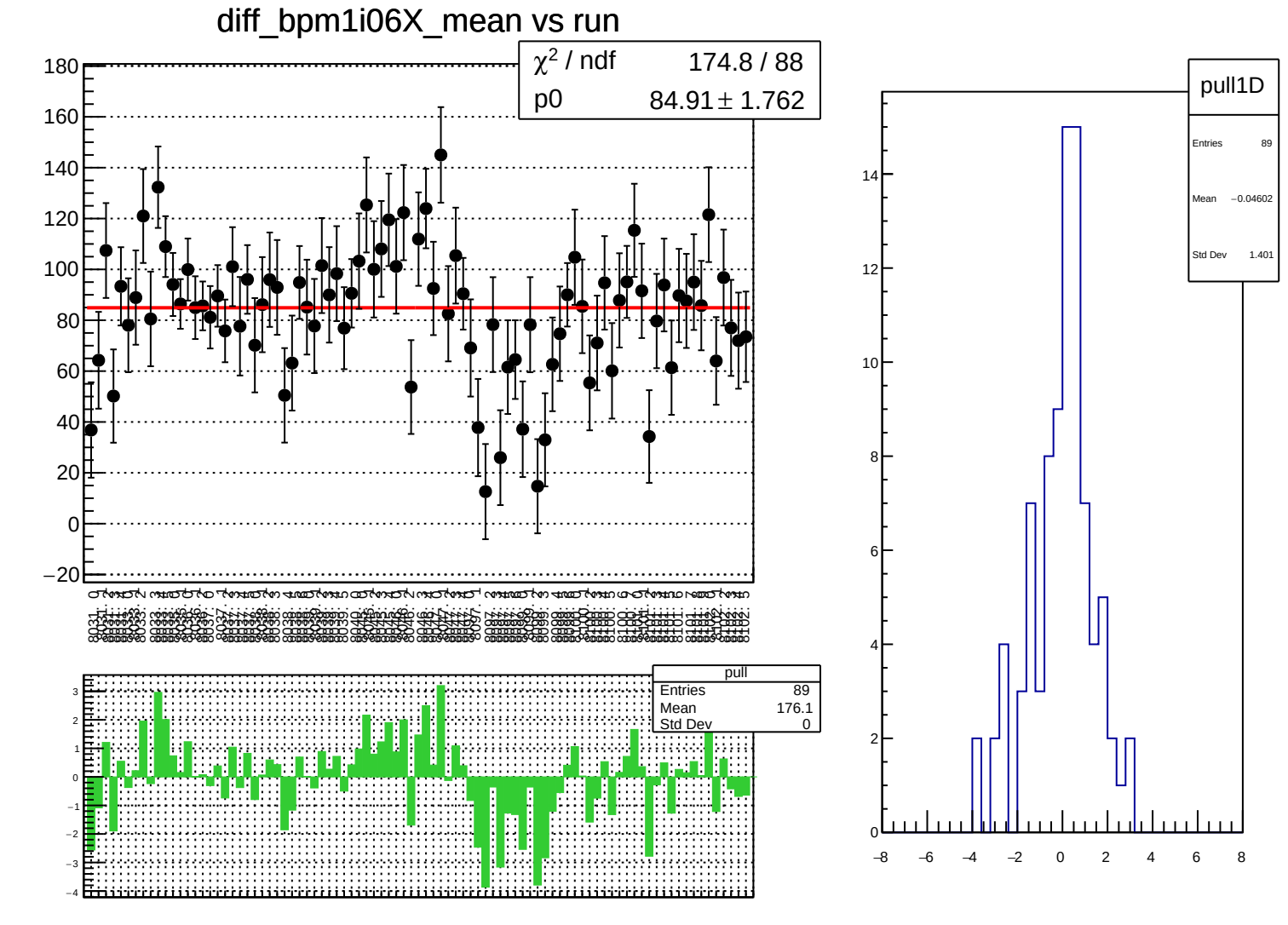

pull1D
Entries 89
Mean −0.01104
Std Dev 1.915

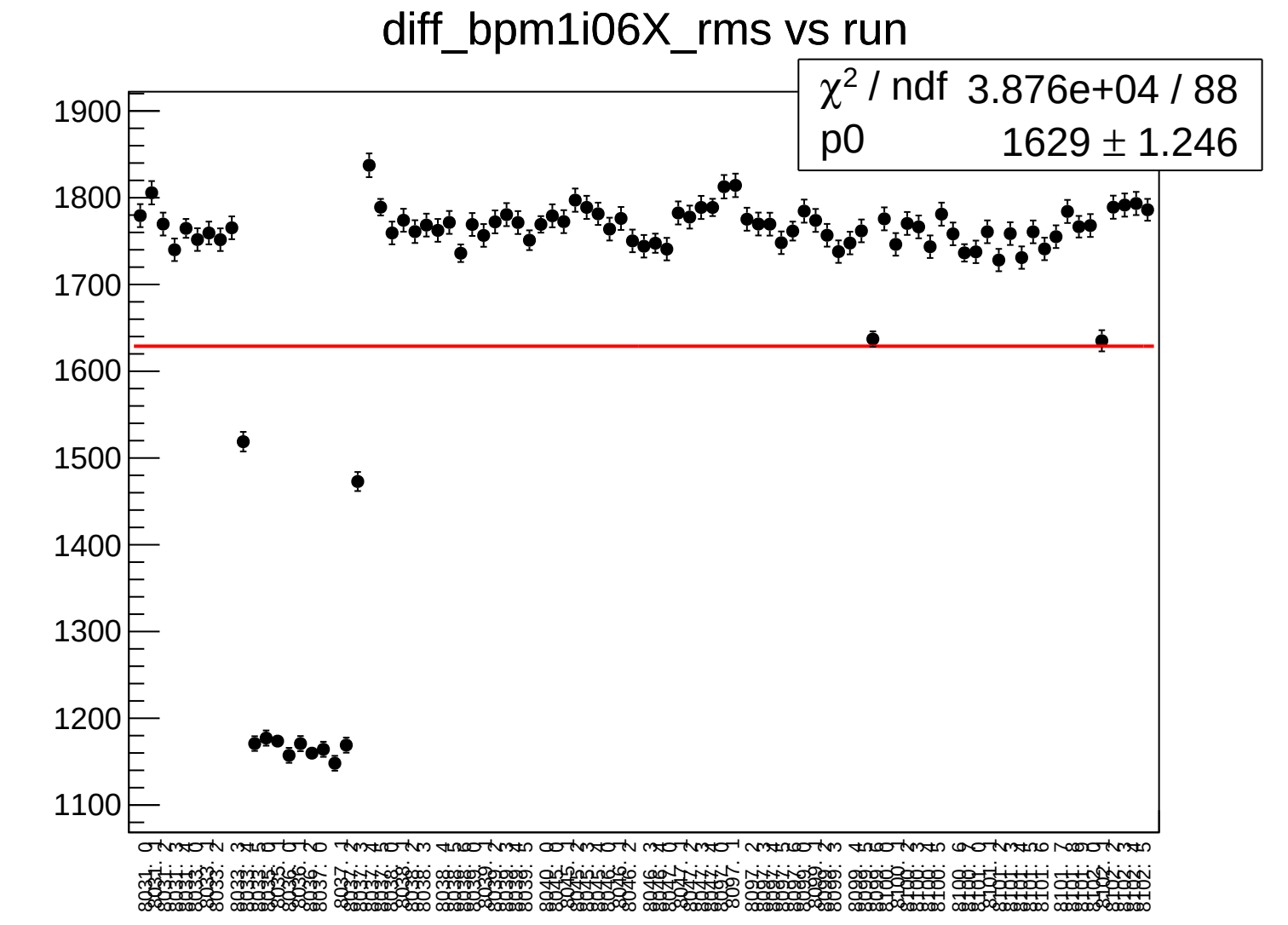

diff_bpm1i04X_rms vs run
χ² / ndf 703.9 / 88
p0 942.4 ± 0.7131
980
960
940
920
900
880

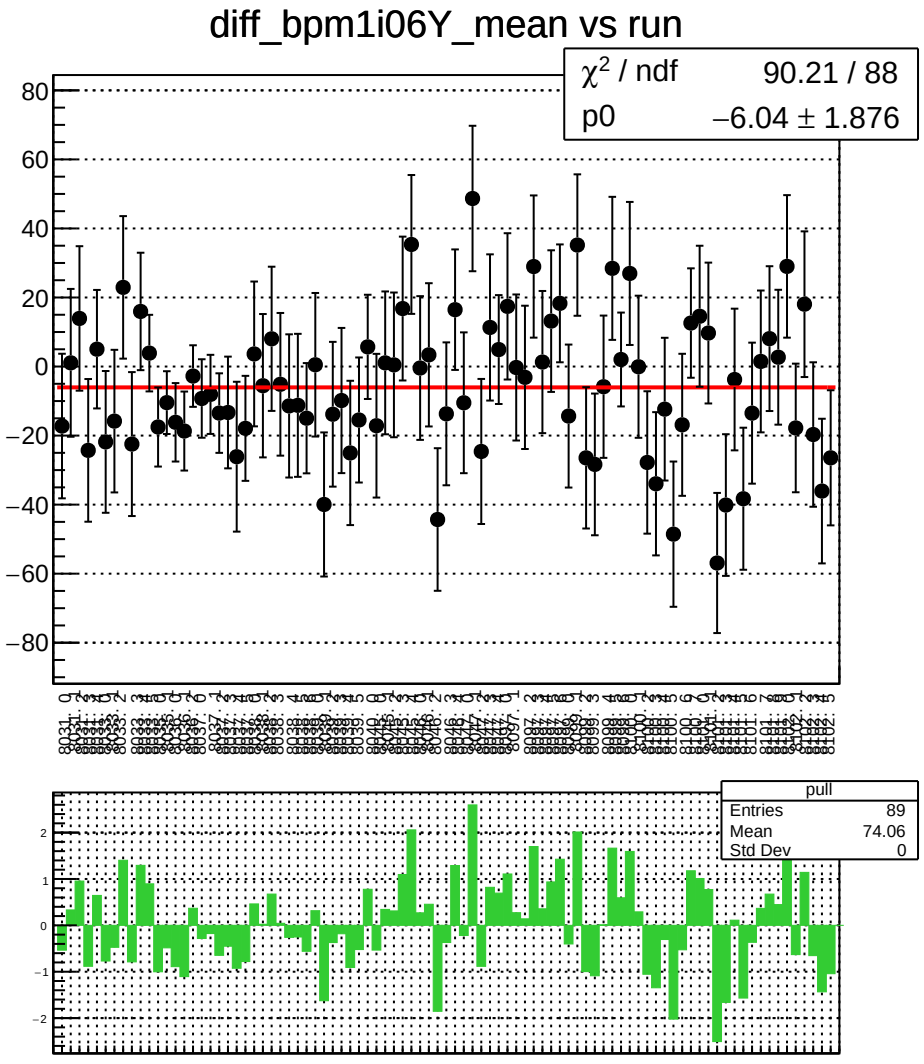

diff_bpm1i04Y_mean vs run
χ² / ndf 107.7 / 88
p0 14 ± 0.6268
pull
Entries 89
Mean 375.1
Std Dev 0

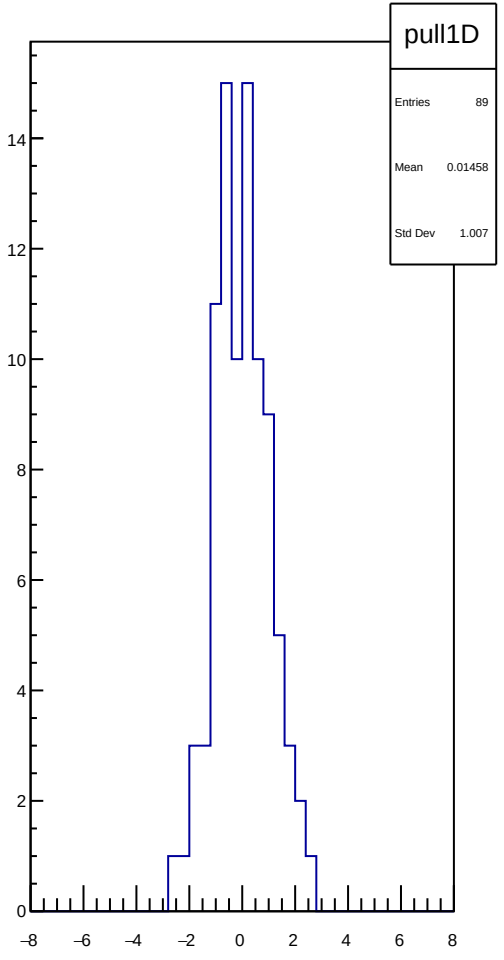

pull1D
Entries 89
Mean −0.01974
Std Dev 1.1

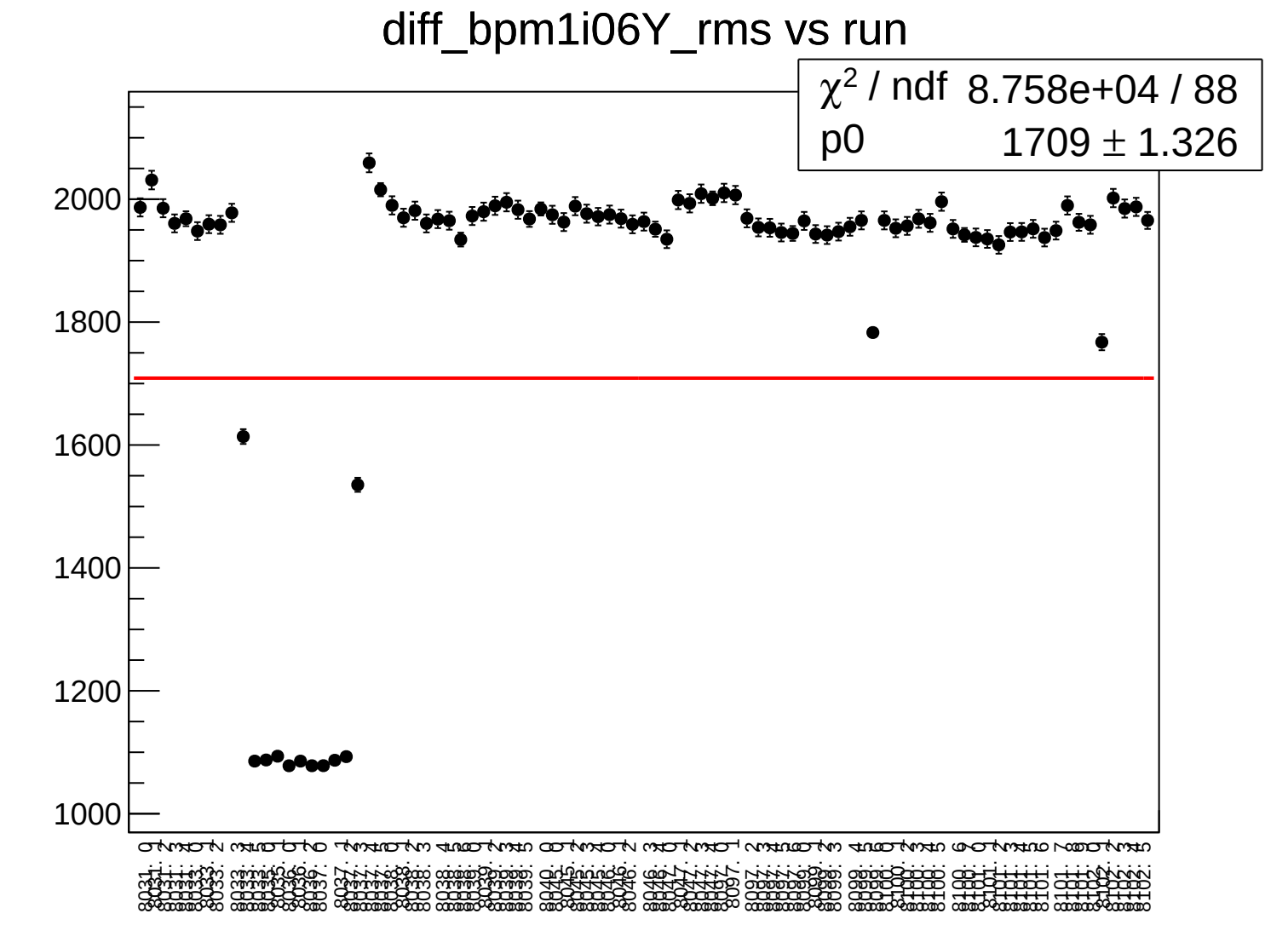

diff_bpm1i04Y_rms vs run
χ² / ndf 3.112e+04 / 88
p0 580.6 ± 0.4432
650
600
550
500
450
400

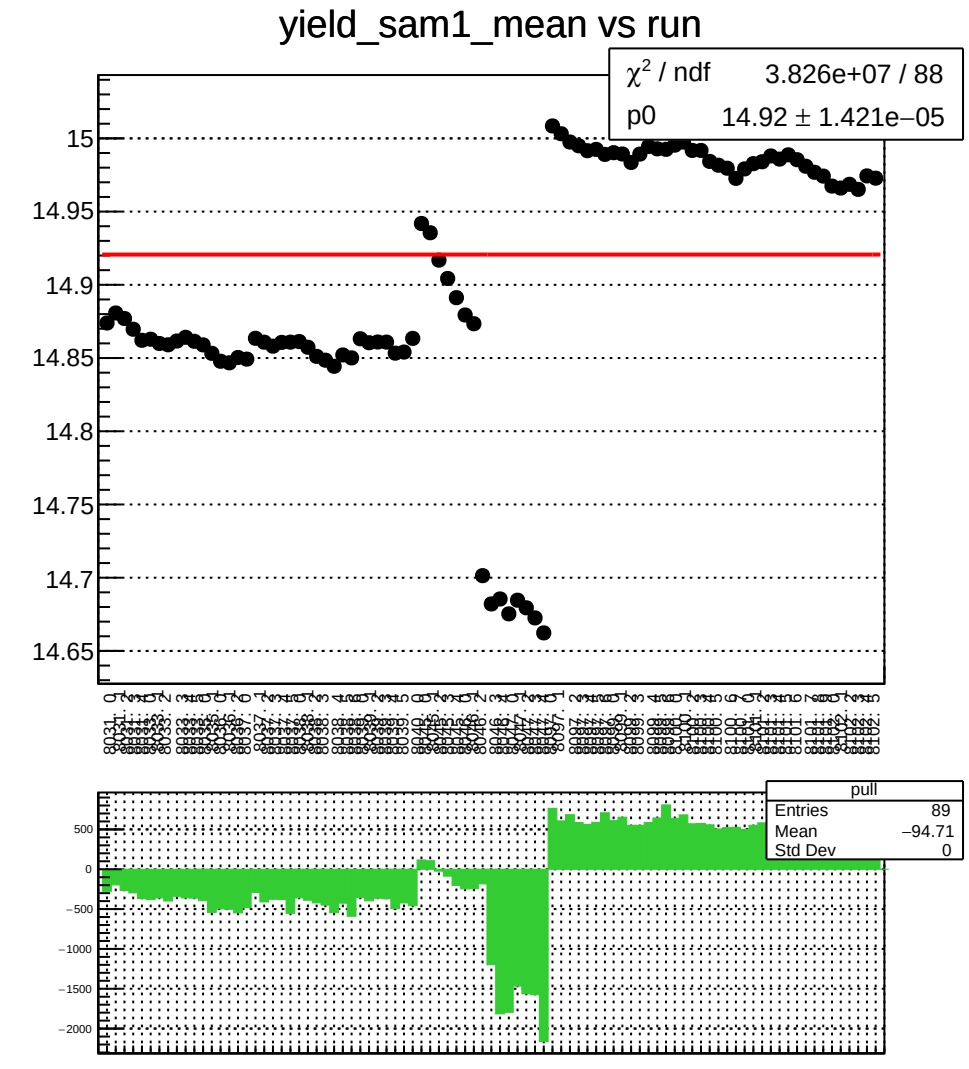

diff_bpm1i06X_mean vs run
χ² / ndf 174.8 / 88
p0 84.91 ± 1.762
pull
Entries 89
Mean 176.1
Std Dev 0
pull1D
Entries 89
Mean −0.04602
Std Dev 1.401

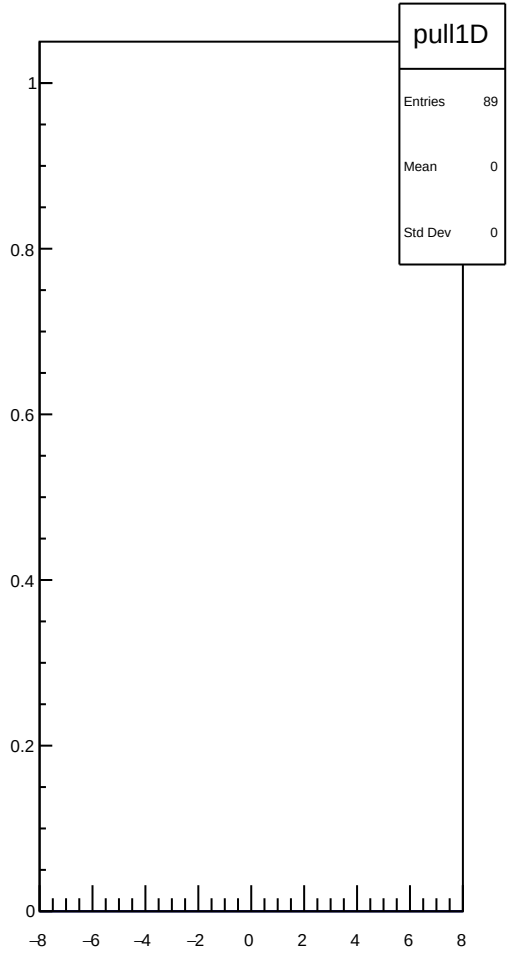

diff_bpm1i06X_rms vs run
$\chi^2$ / ndf 3.876e+04 / 88
p0 1629 ± 1.246
1900
1800
1700
1600
1500
1400
1300
1200
1100

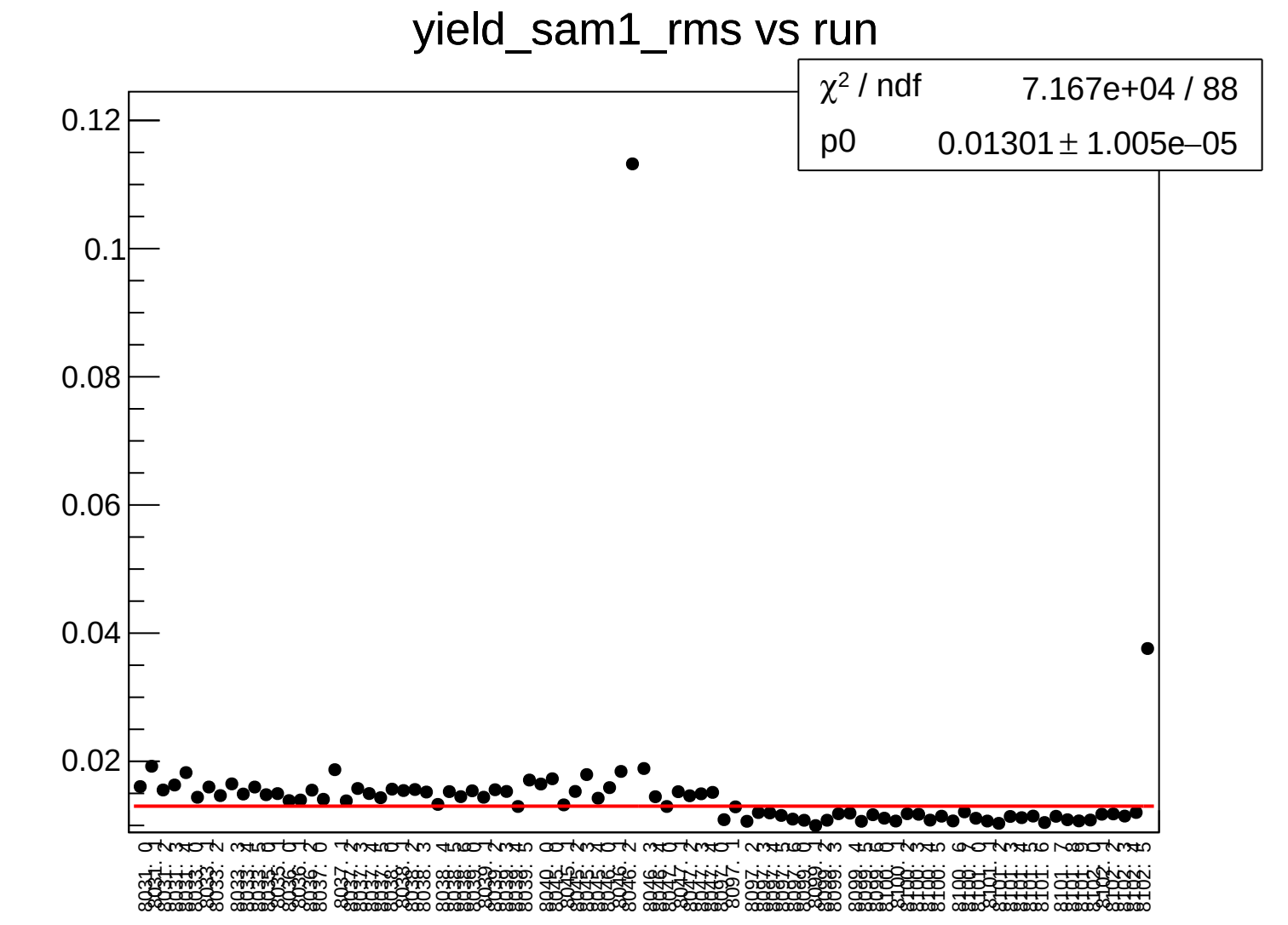

diff_bpm1i06Y_mean vs run
χ² / ndf 90.21 / 88
p0 −6.04 ± 1.876
pull
Entries 89
Mean 74.06
Std Dev 0

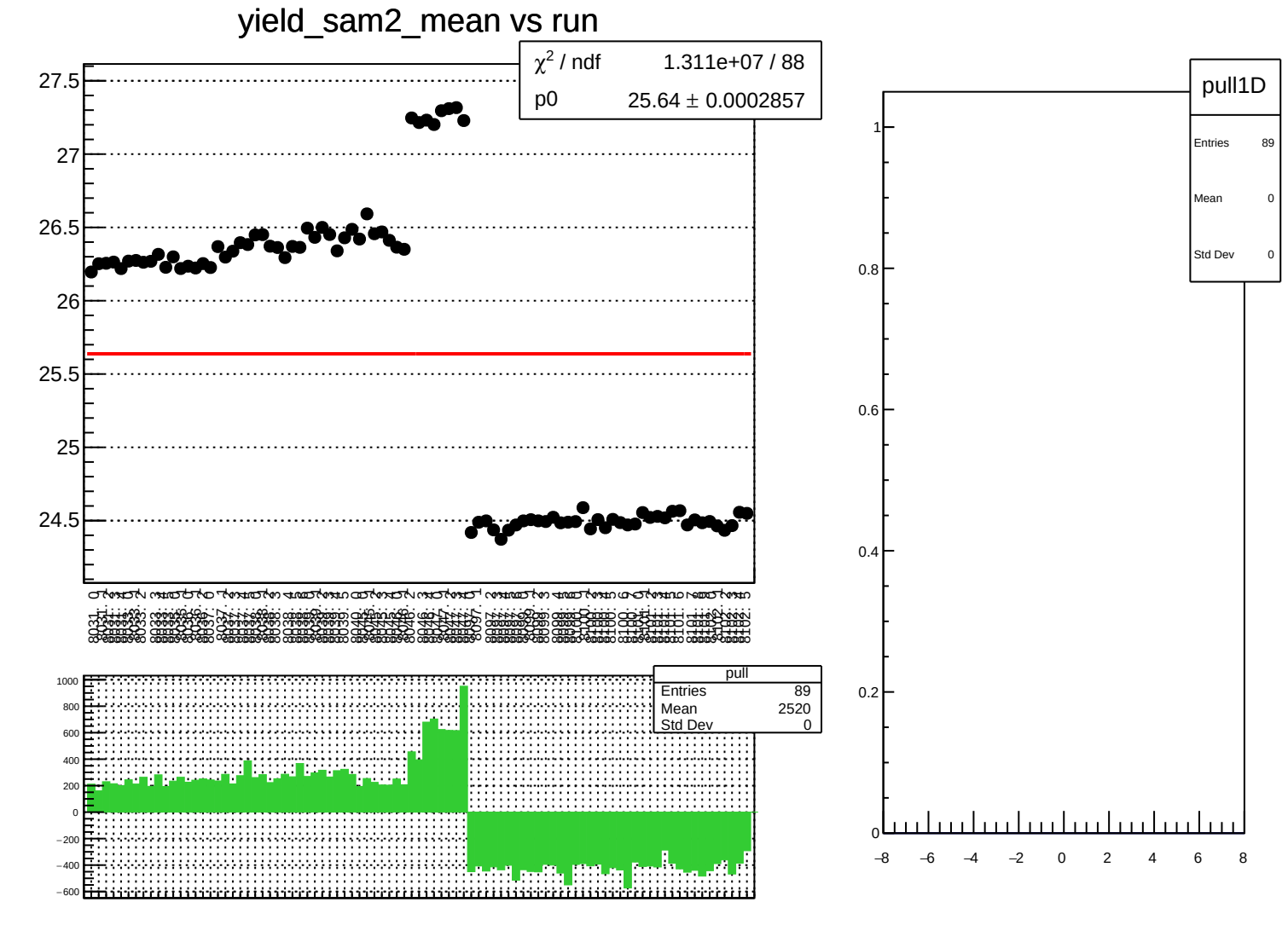

pull1D
Entries 89
Mean 0.01458
Std Dev 1.007

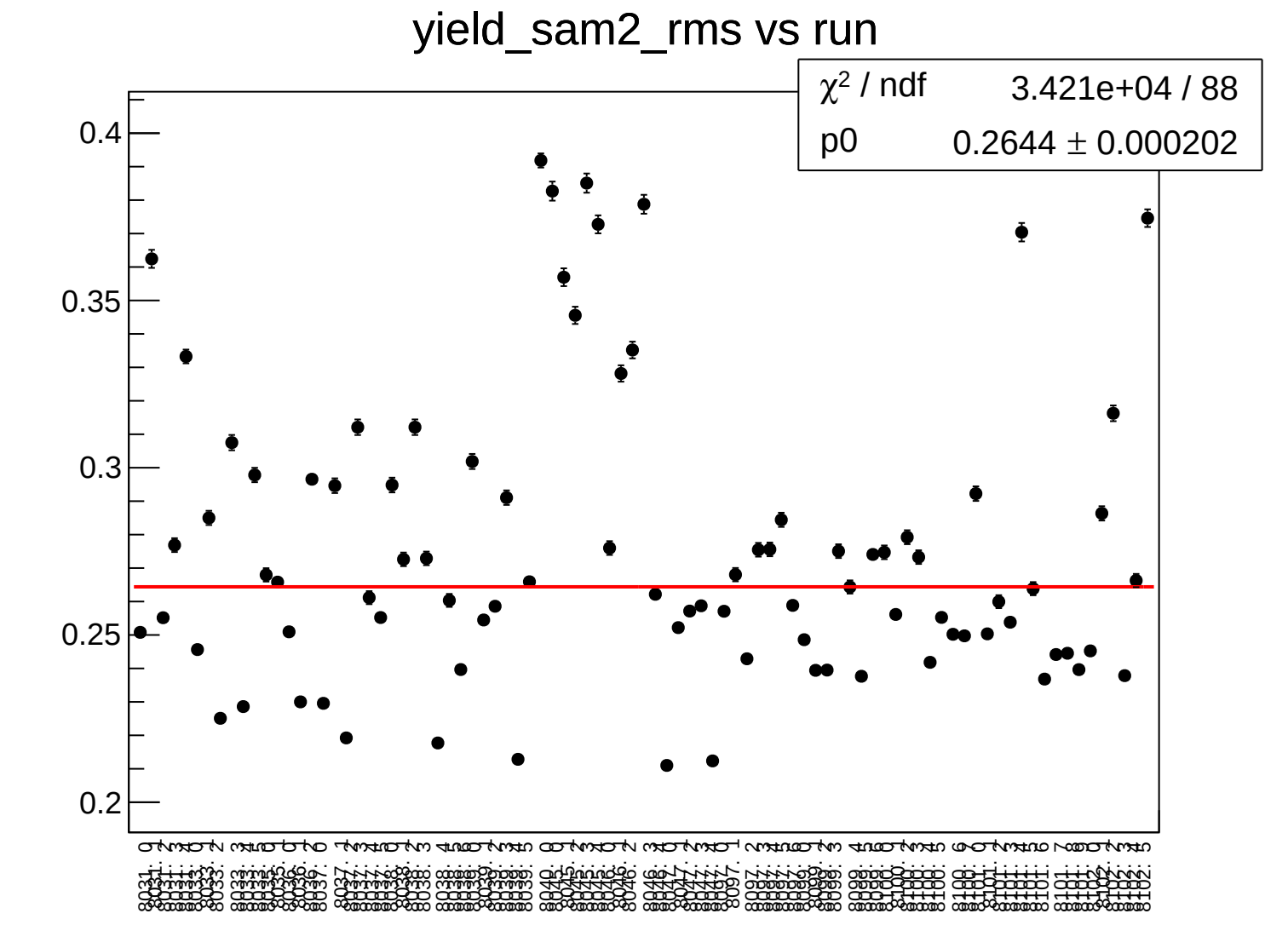

diff_bpm1i06Y_rms vs run
χ² / ndf 8.758e+04 / 88
p0 1709 ± 1.326
2000
1800
1600
1400
1200
1000

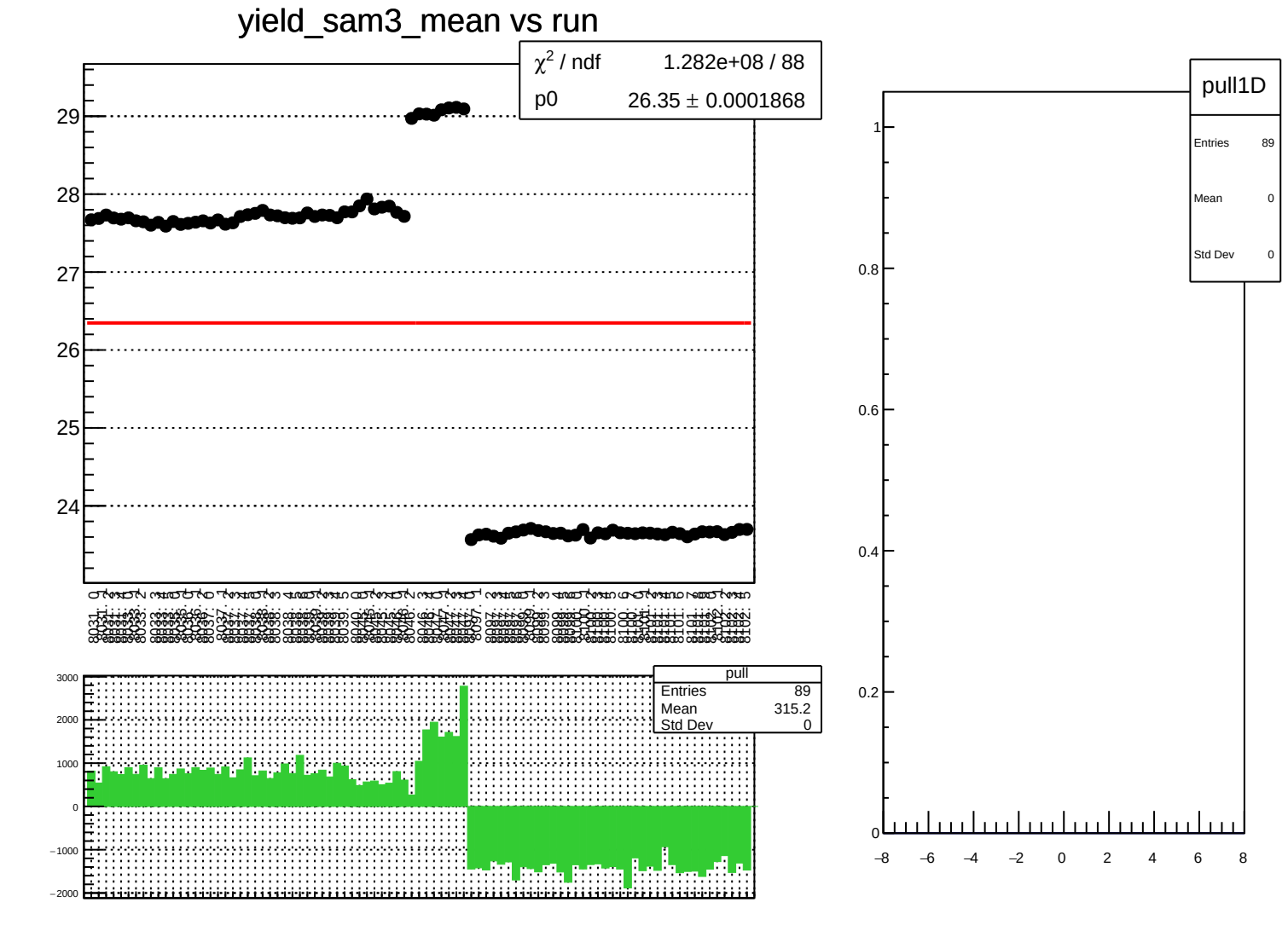

yield_sam1_mean vs run
χ² / ndf 3.826e+07 / 88
p0 14.92 ± 1.421e−05
15
14.95
14.9
14.85
14.8
14.75
14.7
14.65
pull
Entries 89
Mean −94.71
Std Dev 0
500
0
−500
−1000
−1500
−2000

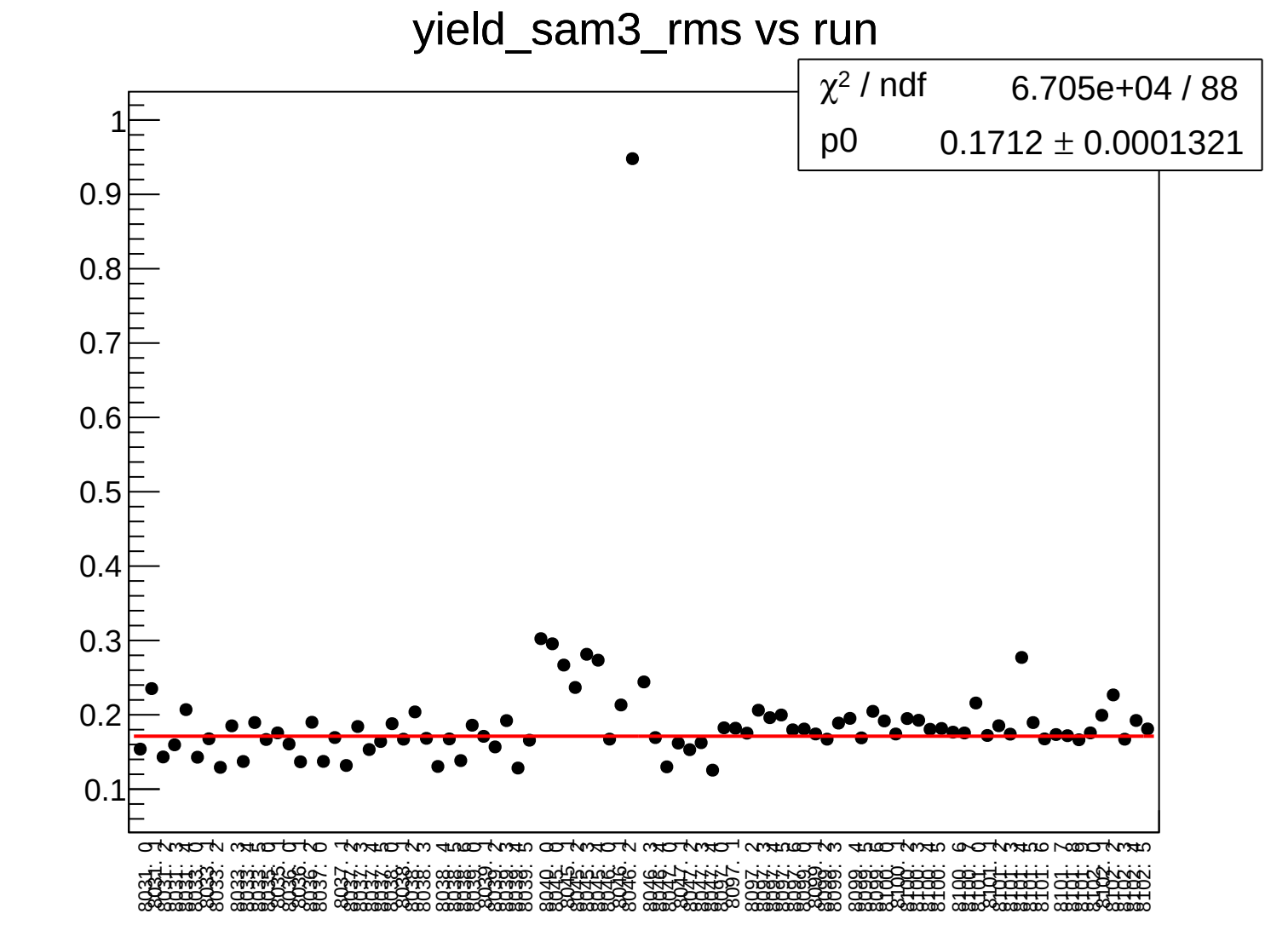

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

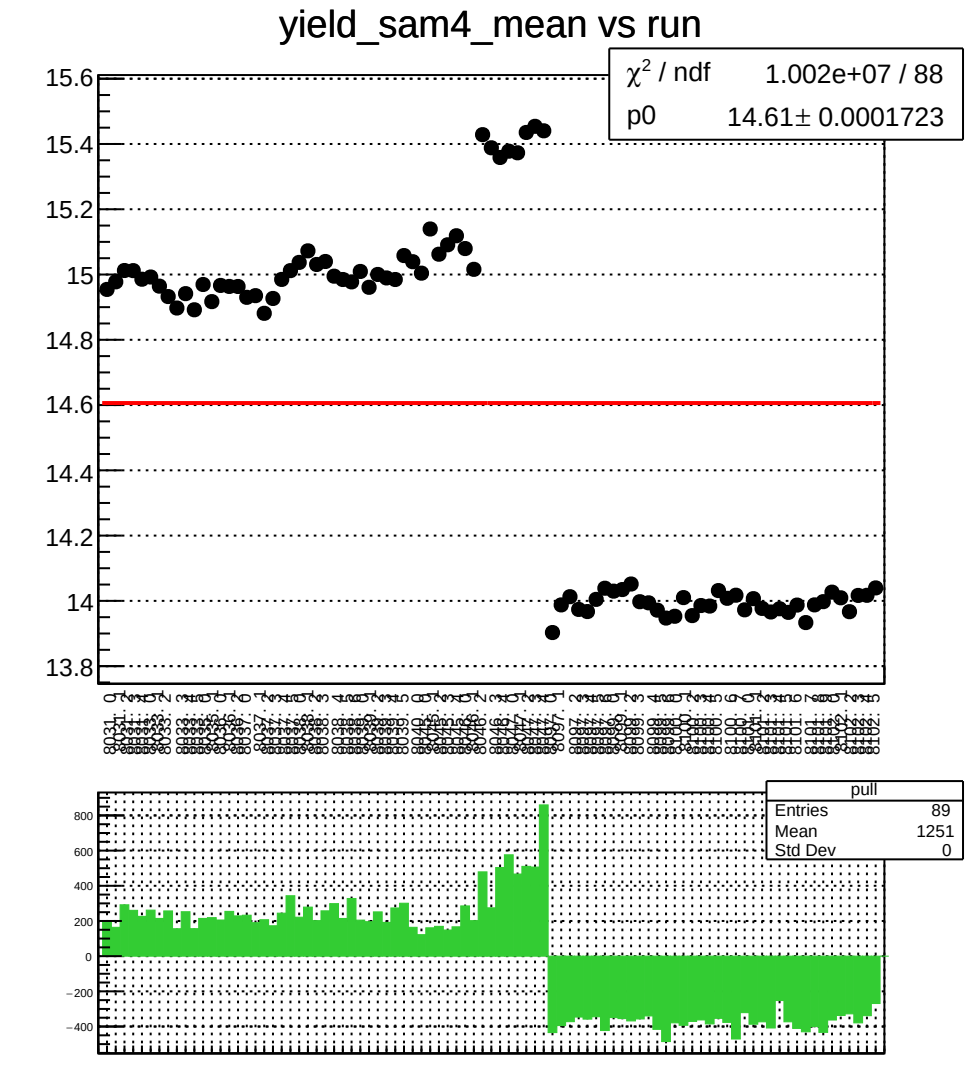

yield_sam1_rms vs run
χ² / ndf 7.167e+04 / 88
p0 0.01301 ± 1.005e−05
0.12
0.1
0.08
0.06
0.04
0.02

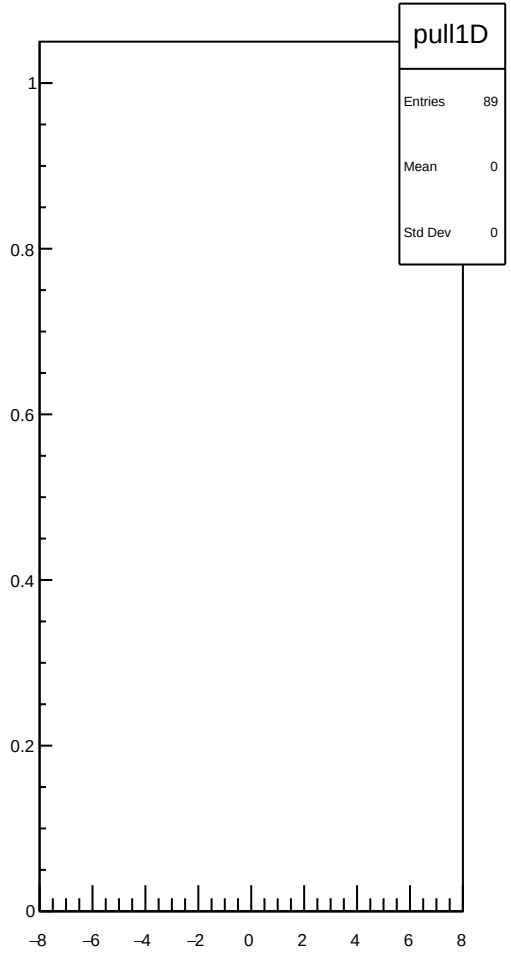

yield_sam2_mean vs run
χ² / ndf 1.311e+07 / 88
p0 25.64 ± 0.0002857
27.5
27
26.5
26
25.5
25
24.5
pull
Entries 89
Mean 2520
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

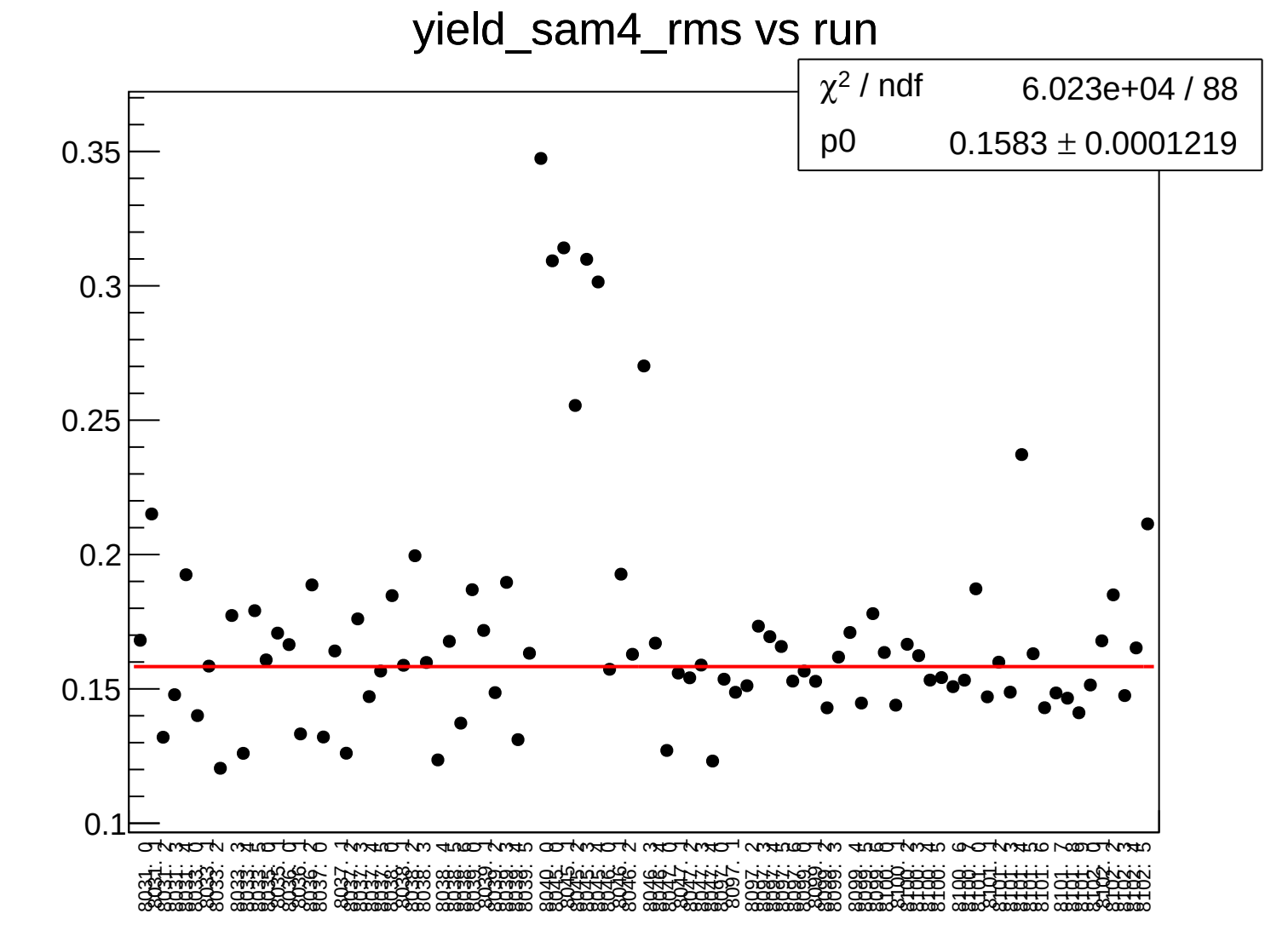

yield_sam2_rms vs run
χ² / ndf 3.421e+04 / 88
p0 0.2644 ± 0.000202
0.4
0.35
0.3
0.25
0.2

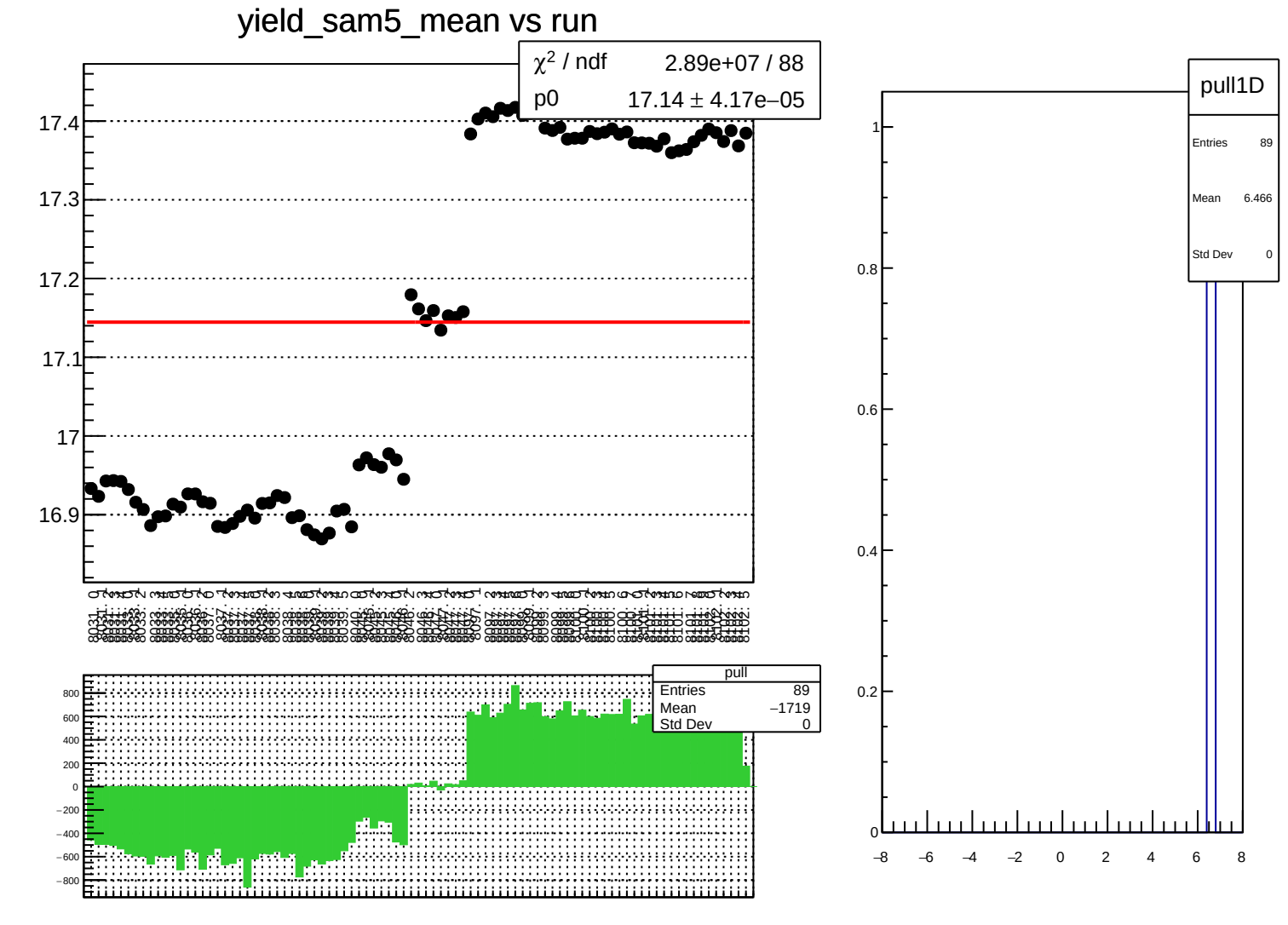

yield_sam3_mean vs run
χ² / ndf 1.282e+08 / 88
p0 26.35 ± 0.0001868
29
28
27
26
25
24
pull
Entries 89
Mean 315.2
Std Dev 0
3000
2000
1000
0
−1000
−2000
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

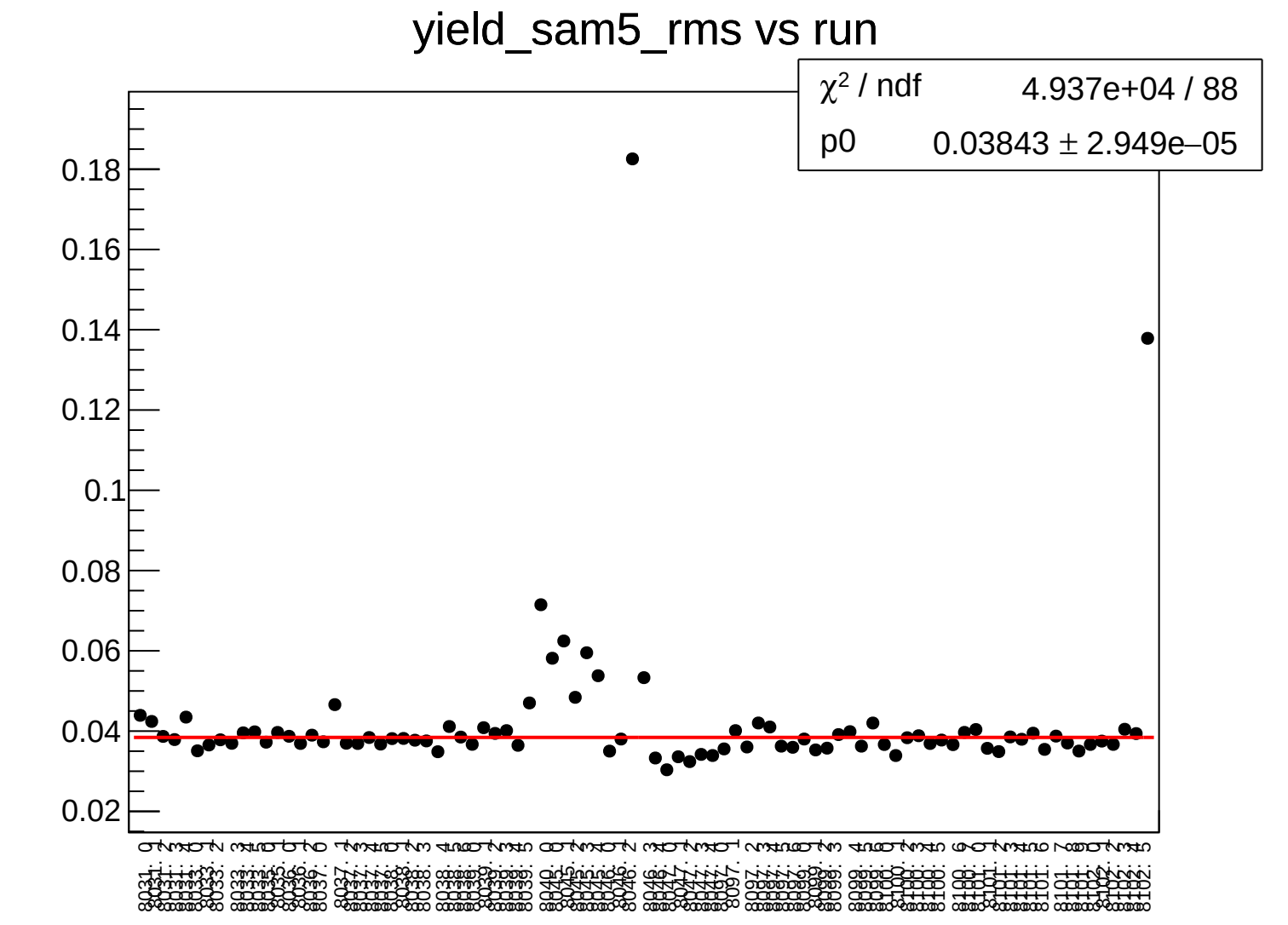

yield_sam3_rms vs run
χ² / ndf 6.705e+04 / 88
p0 0.1712 ± 0.0001321
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

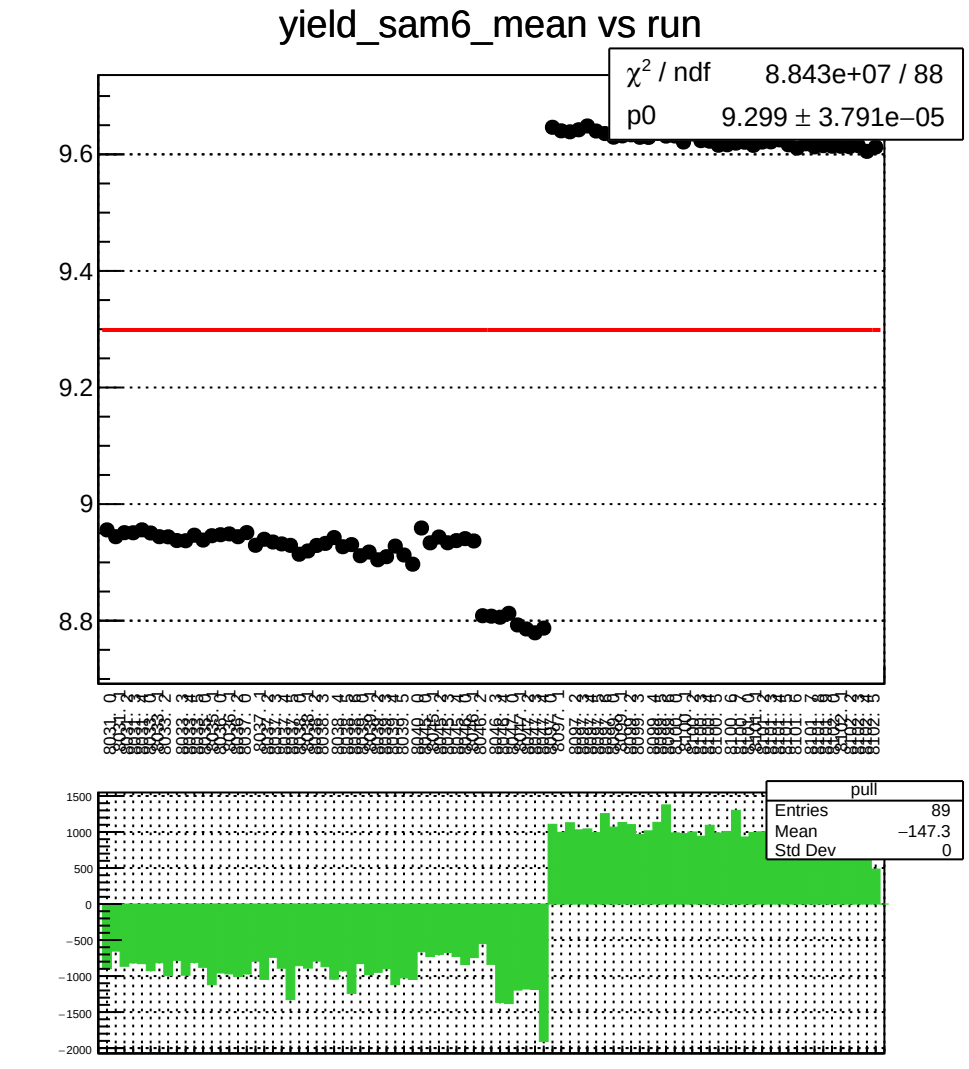

yield_sam4_mean vs run
χ² / ndf 1.002e+07 / 88
p0 14.61± 0.0001723
15.6
15.4
15.2
15
14.8
14.6
14.4
14.2
14
13.8
pull
Entries 89
Mean 1251
Std Dev 0
800
600
400
200
0
−200
−400

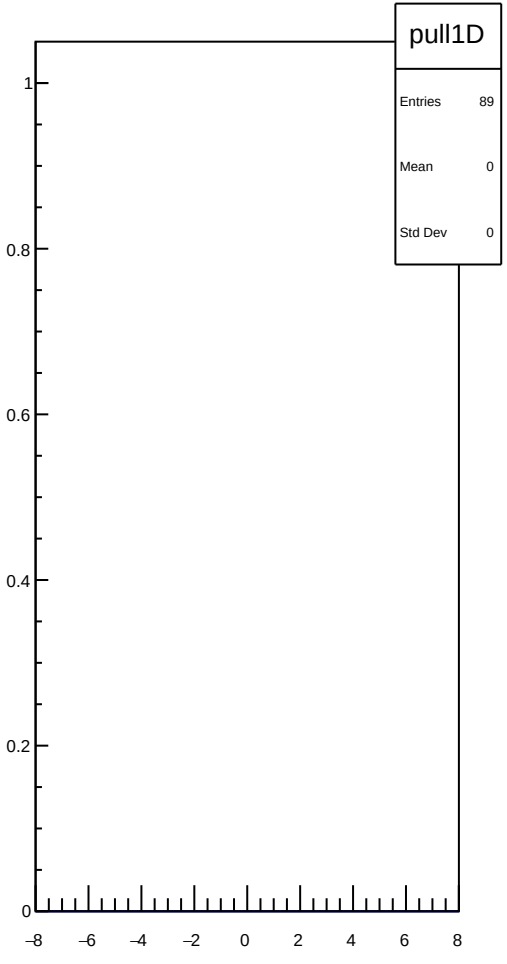

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

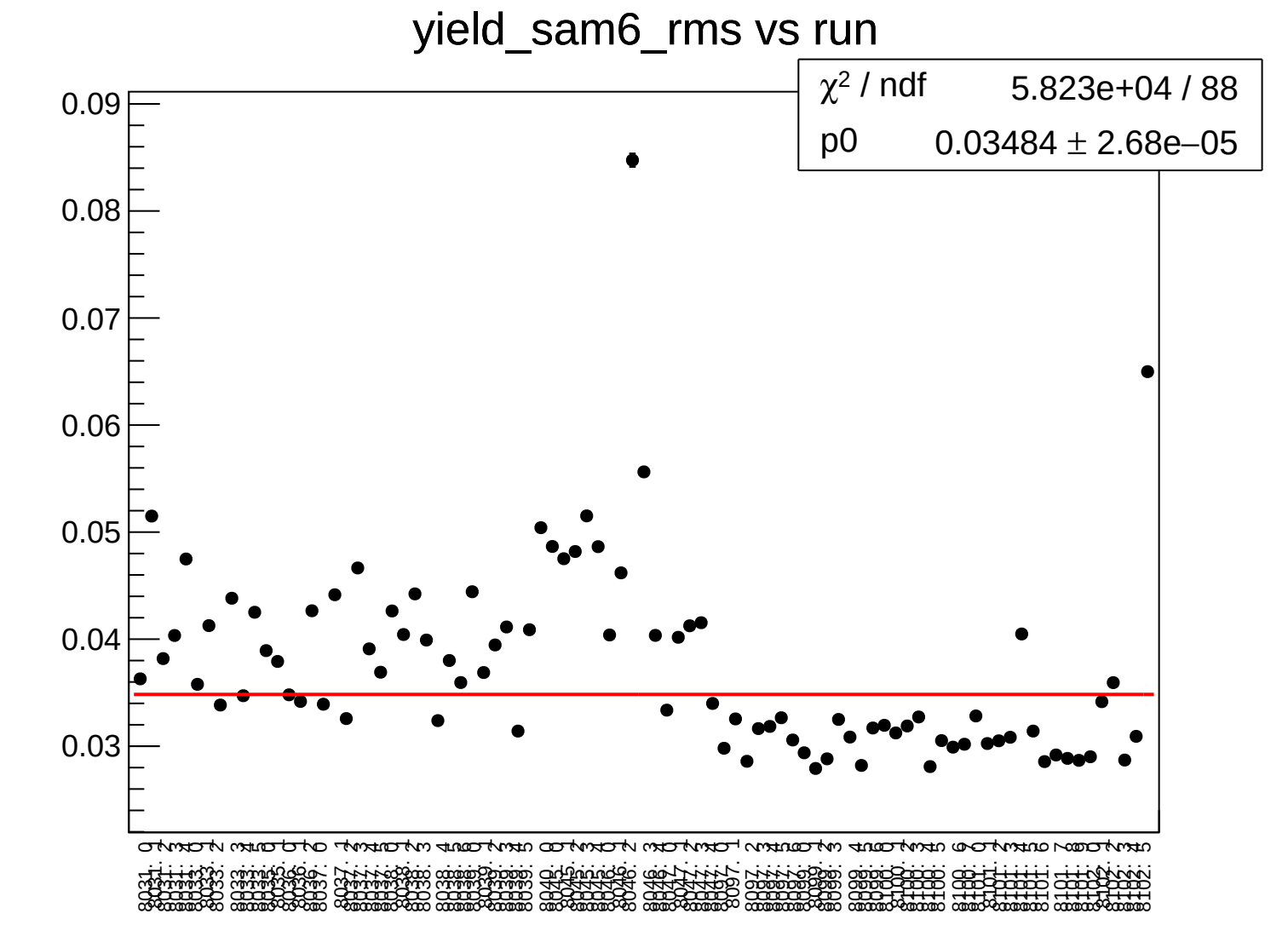

yield_sam4_rms vs run
χ² / ndf 6.023e+04 / 88
p0 0.1583 ± 0.0001219
0.35
0.3
0.25
0.2
0.15
0.1

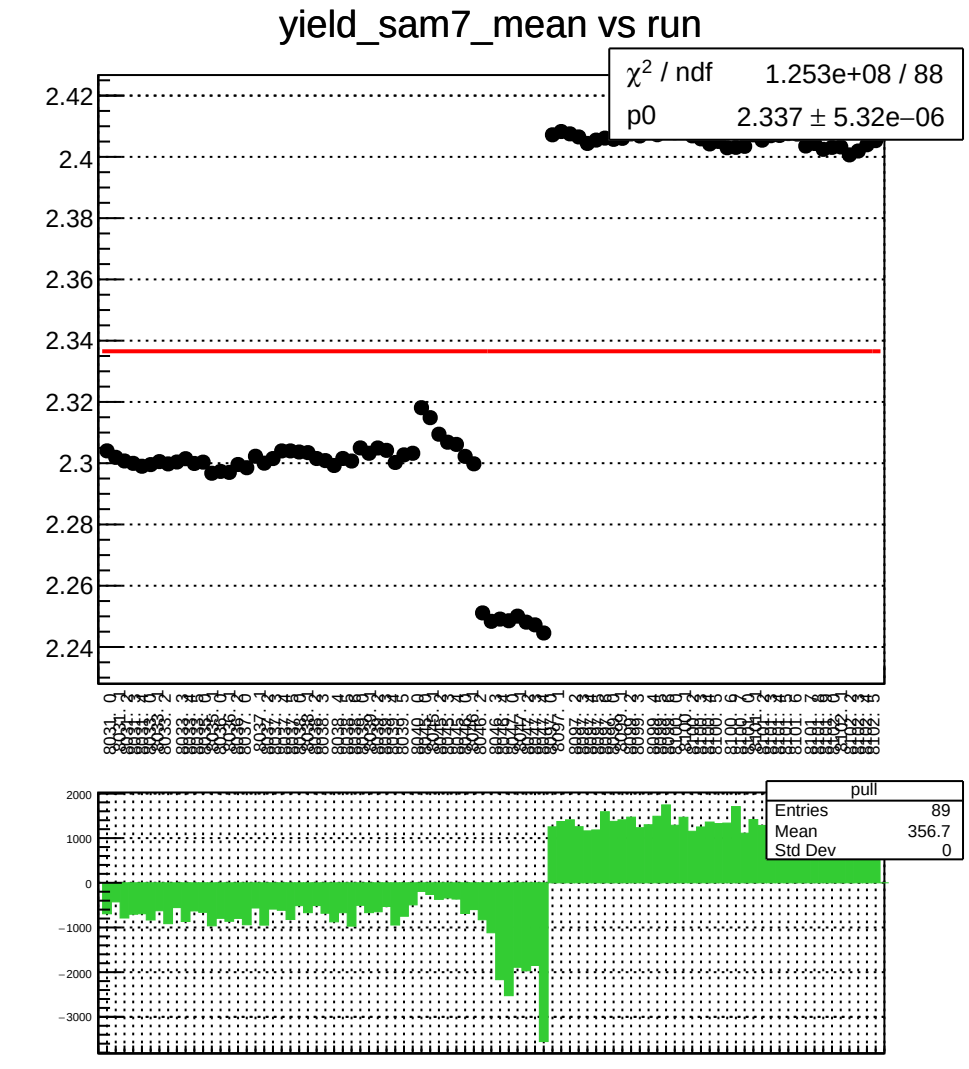

yield_sam5_mean vs run
χ² / ndf 2.89e+07 / 88
p0 17.14 ± 4.17e−05
17.4
17.3
17.2
17.1
17
16.9
pull
Entries 89
Mean −1719
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
pull1D
Entries 89
Mean 6.466
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

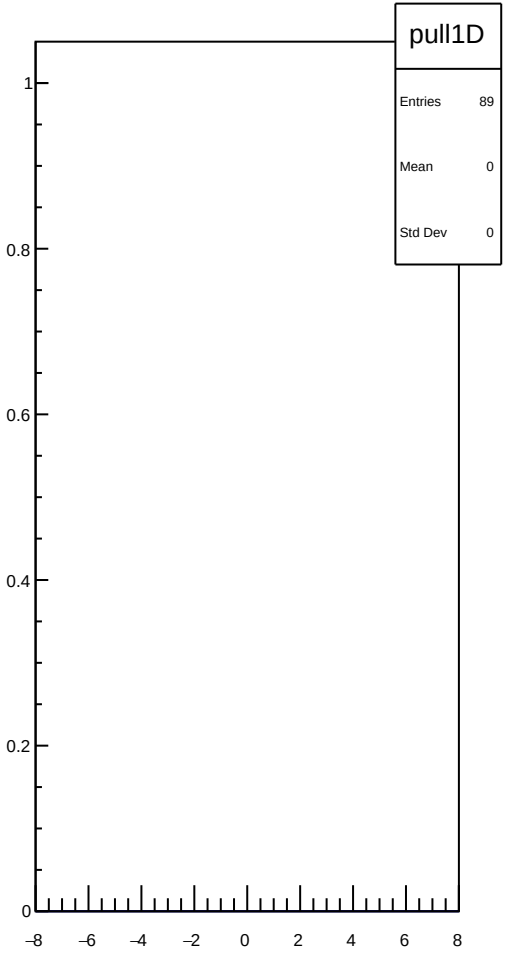

yield_sam5_rms vs run
χ² / ndf 4.937e+04 / 88
p0 0.03843 ± 2.949e−05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

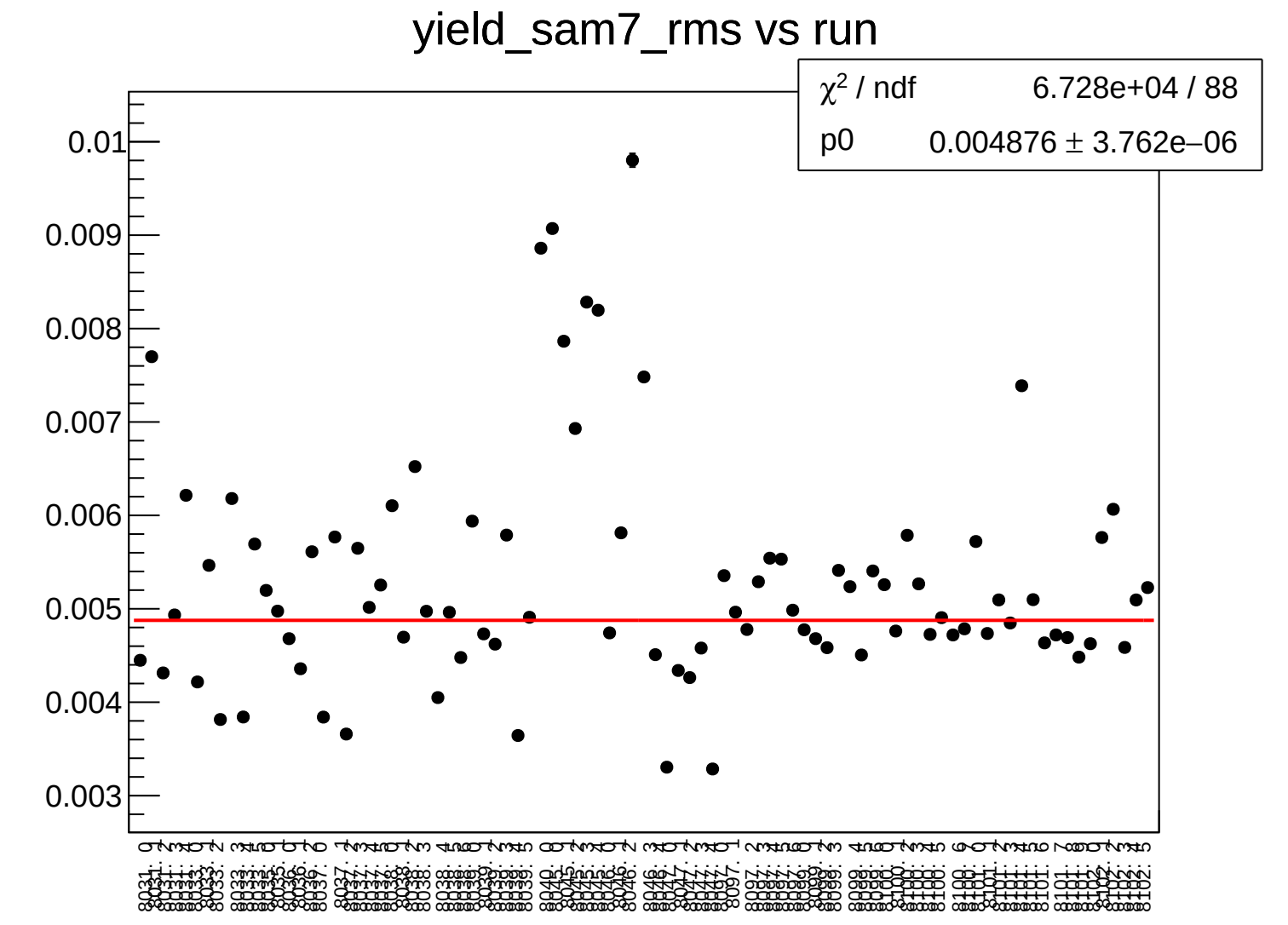

yield_sam6_mean vs run
χ² / ndf 8.843e+07 / 88
p0 9.299 ± 3.791e−05
9.6
9.4
9.2
9
8.8
pull
Entries 89
Mean −147.3
Std Dev 0
1500
1000
500
0
−500
−1000
−1500
−2000

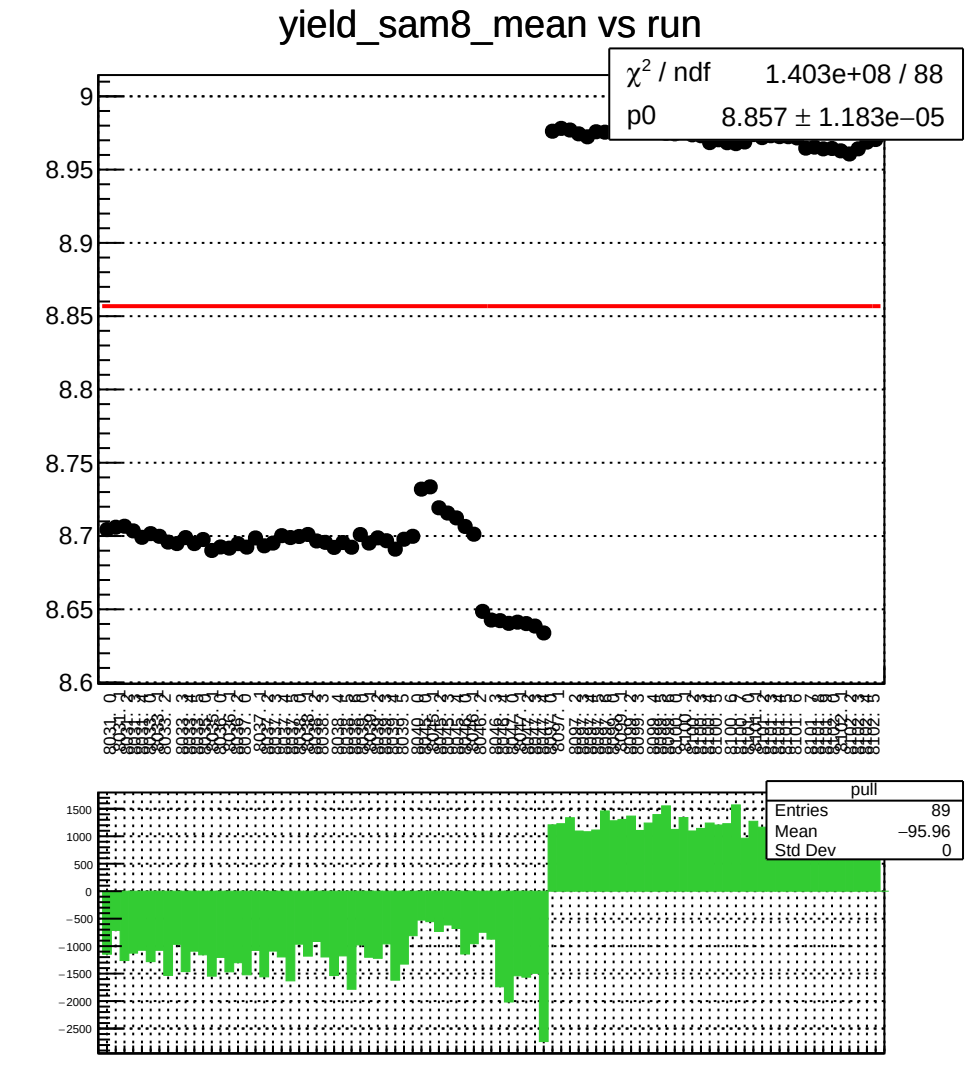

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

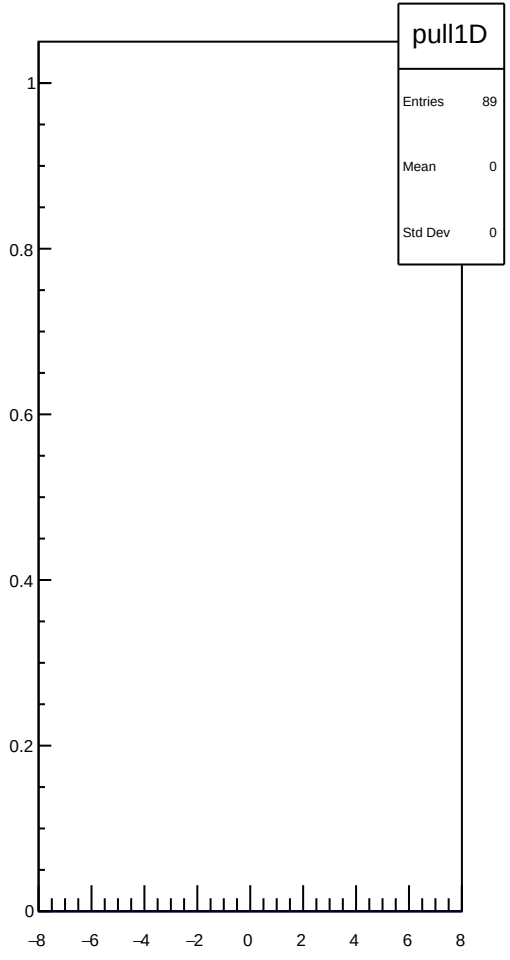

yield_sam6_rms vs run
χ² / ndf 5.823e+04 / 88
p0 0.03484 ± 2.68e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03

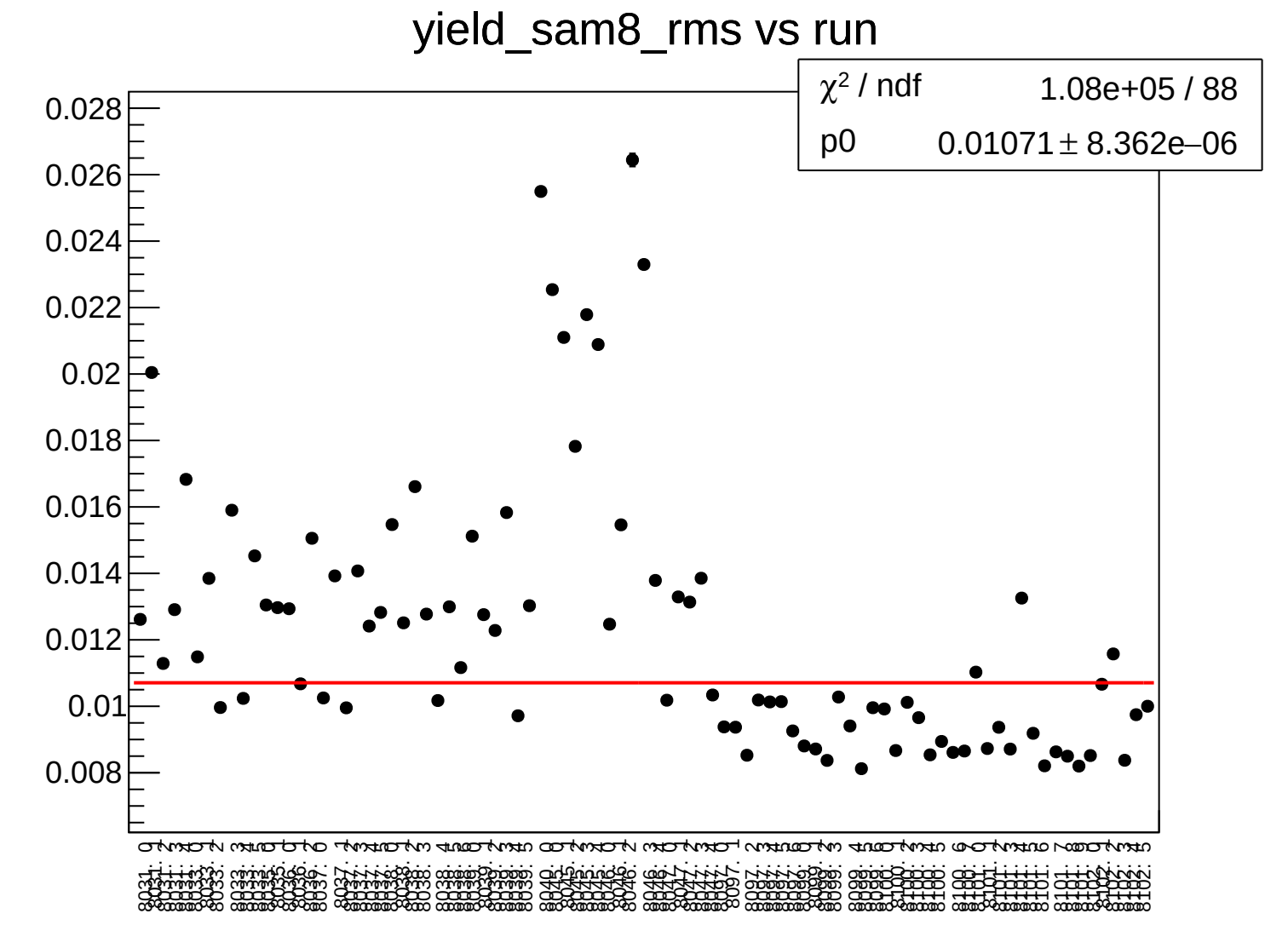

yield_sam7_mean vs run
χ² / ndf 1.253e+08 / 88
p0 2.337 ± 5.32e−06
2.42
2.4
2.38
2.36
2.34
2.32
2.3
2.28
2.26
2.24
pull
Entries 89
Mean 356.7
Std Dev 0
2000
1000
0
−1000
−2000
−3000

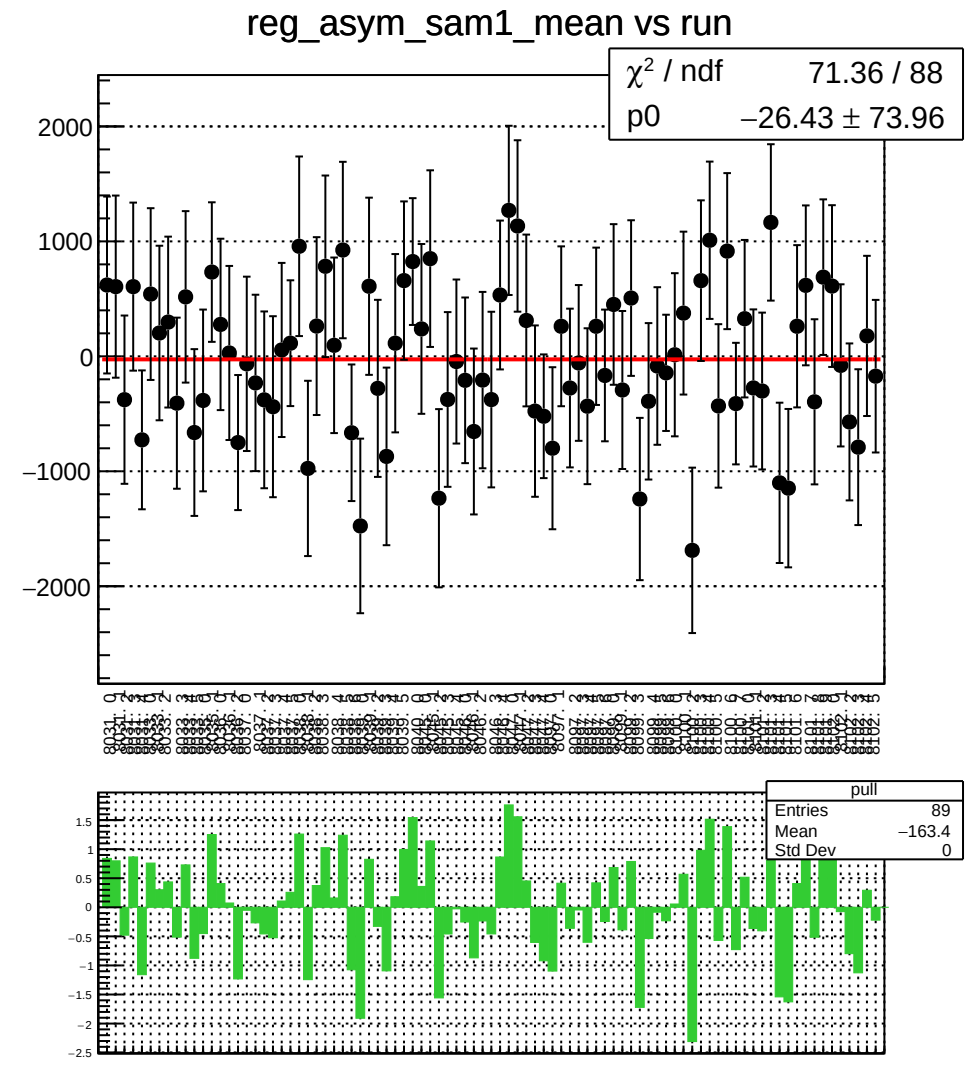

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

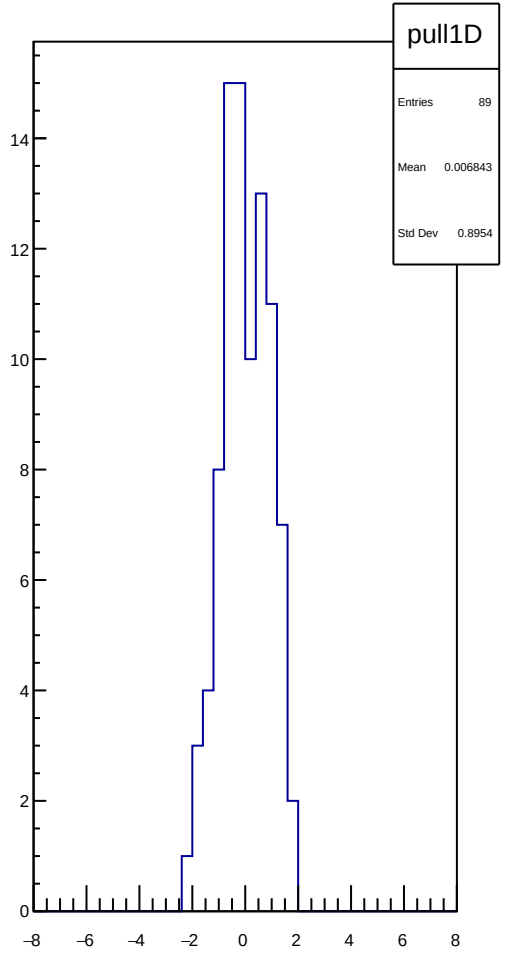

yield_sam7_rms vs run
χ² / ndf 6.728e+04 / 88
p0 0.004876 ± 3.762e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

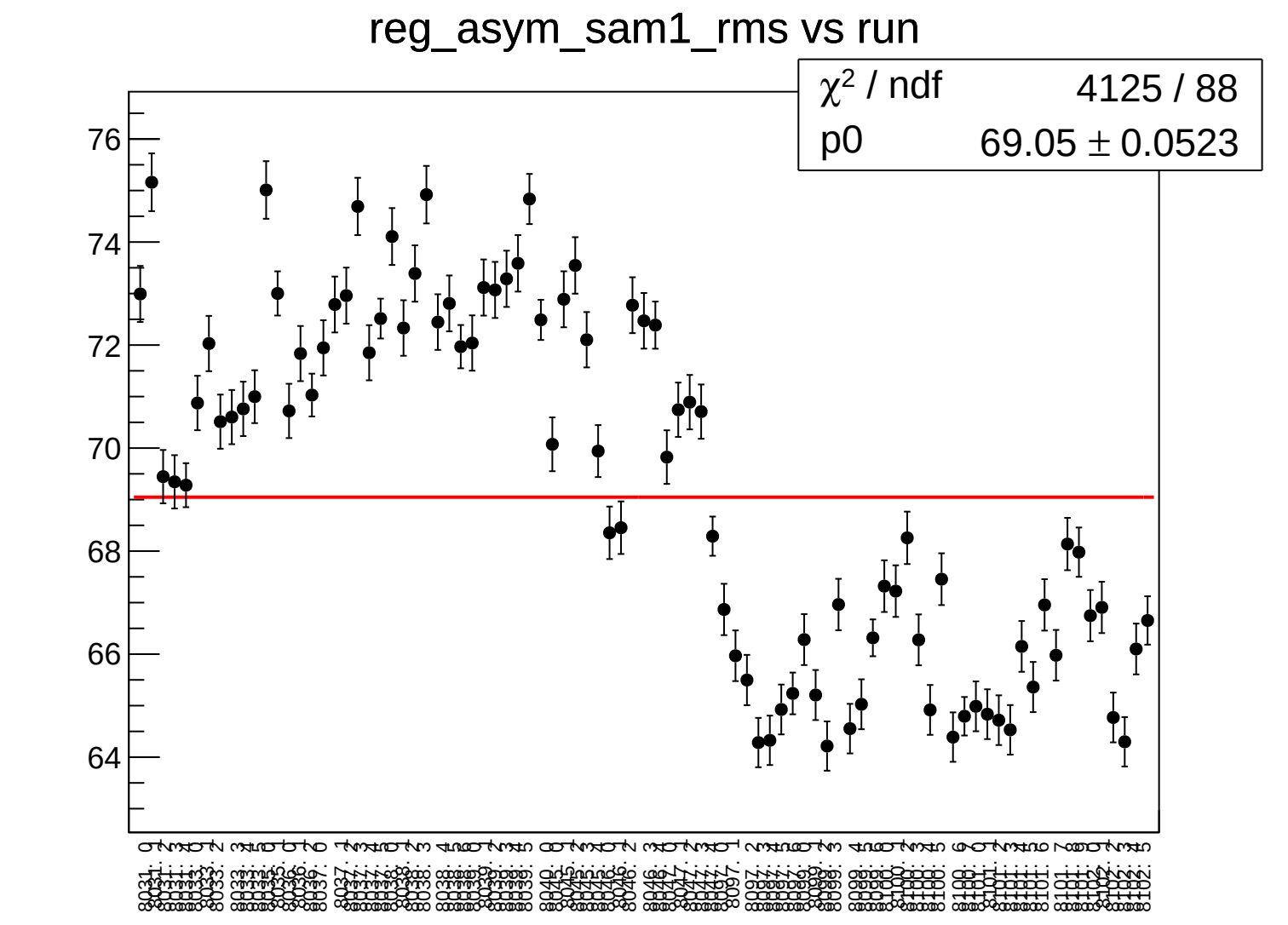

yield_sam8_mean vs run
χ² / ndf 1.403e+08 / 88
p0 8.857 ± 1.183e−05
9
8.95
8.9
8.85
8.8
8.75
8.7
8.65
8.6
pull
Entries 89
Mean −95.96
Std Dev 0
1500
1000
500
0
−500
−1000
−1500
−2000
−2500

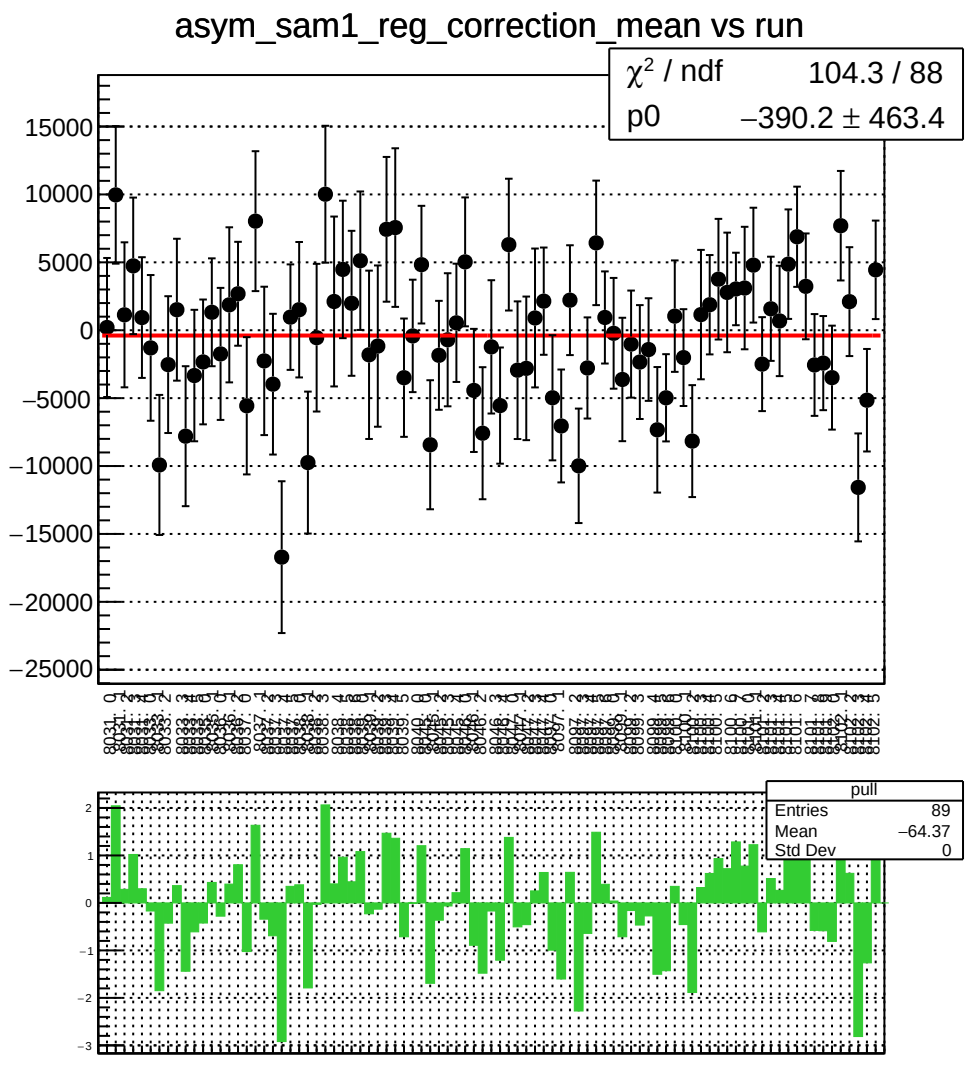

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

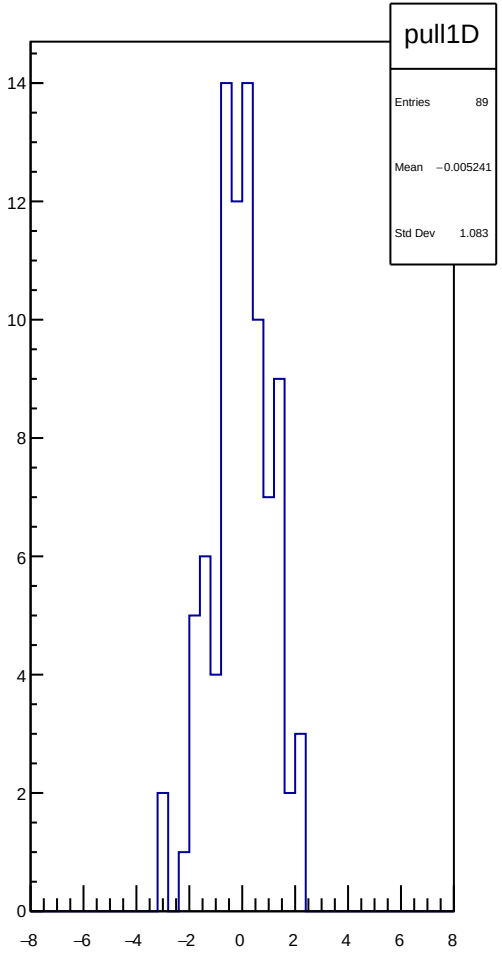

yield_sam8_rms vs run
χ² / ndf 1.08e+05 / 88
p0 0.01071 ± 8.362e–06
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

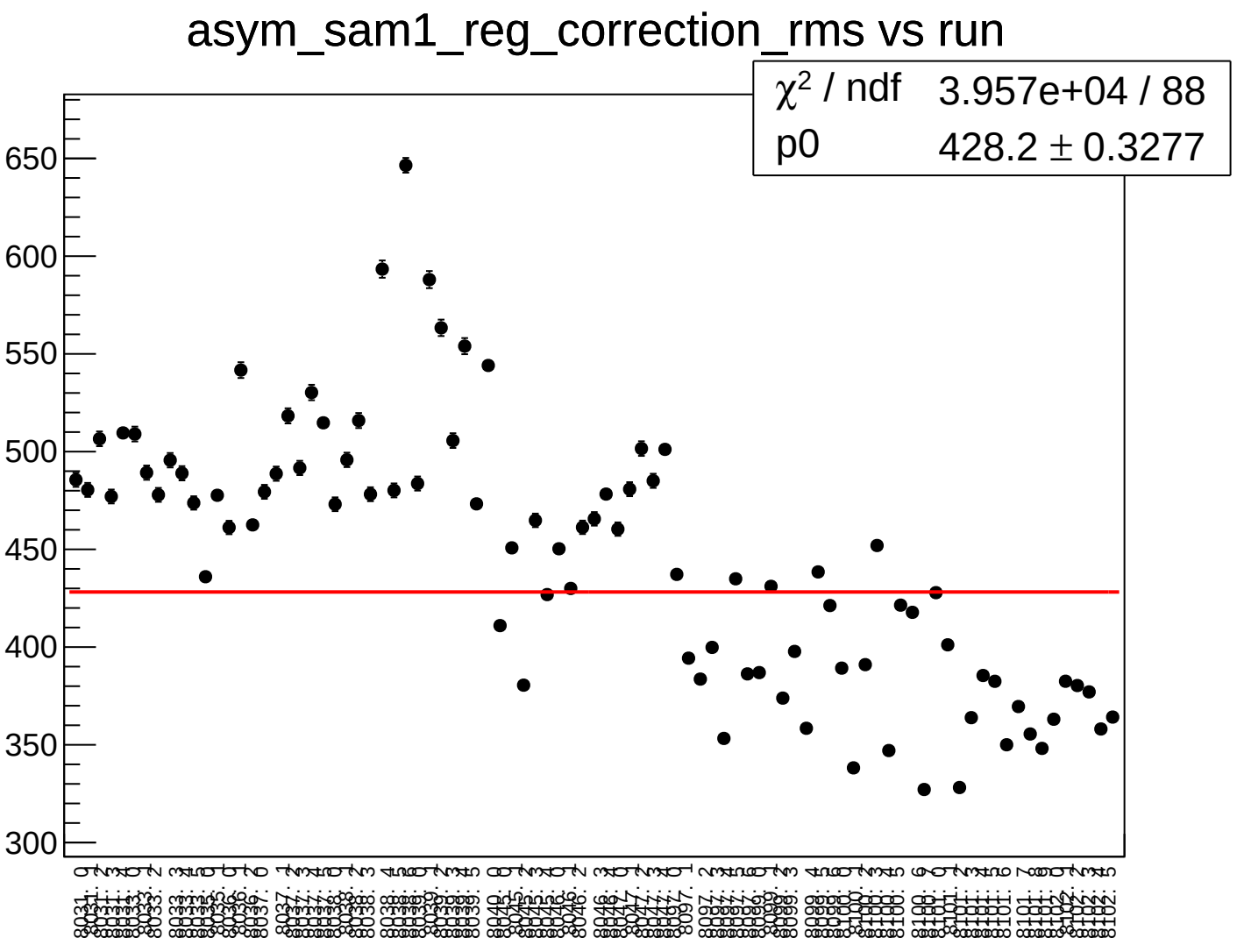

reg_asym_sam1_mean vs run
χ² / ndf 71.36 / 88
p0 −26.43 ± 73.96
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −163.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

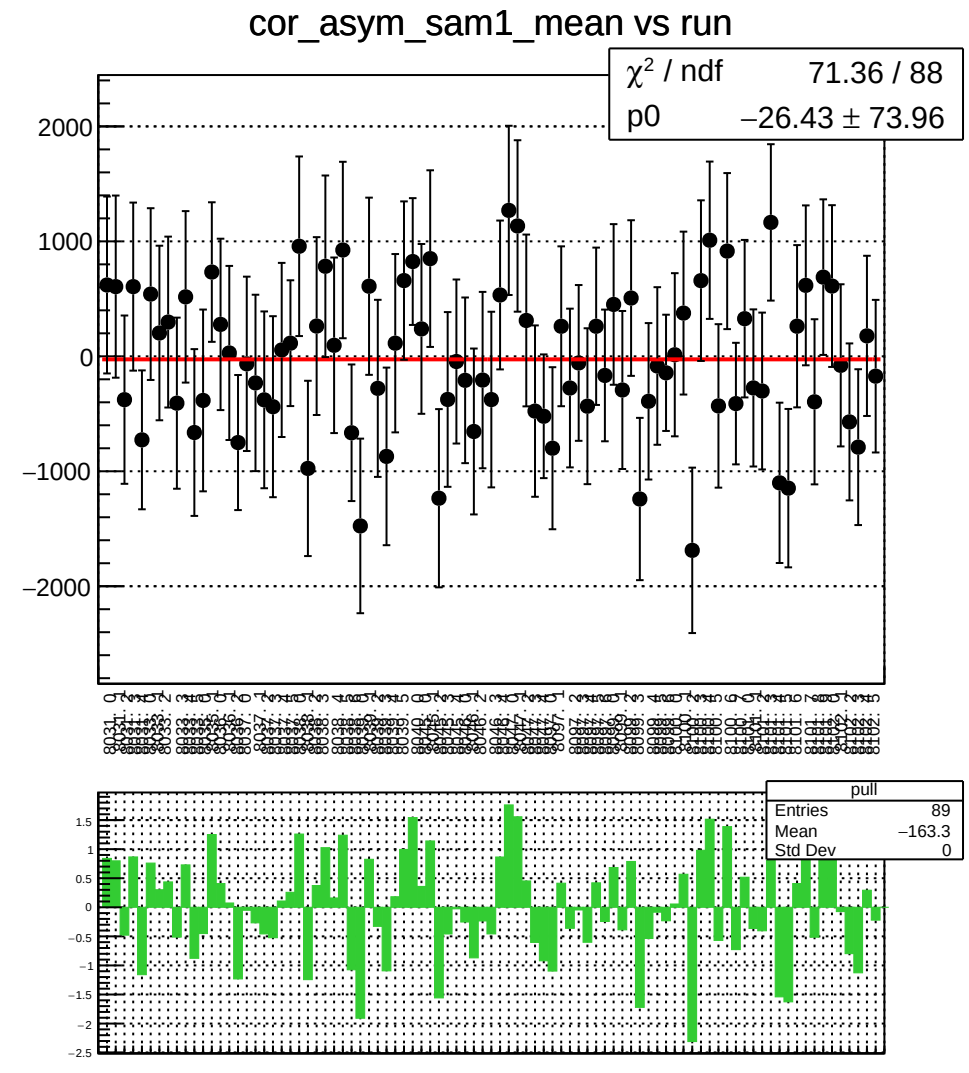

pull1D
Entries 89
Mean 0.006843
Std Dev 0.8954
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

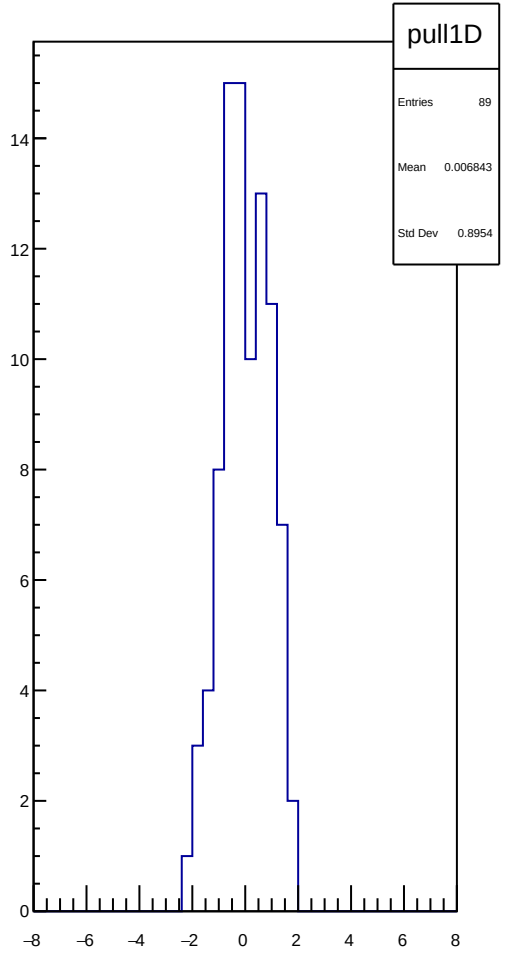

reg_asym_sam1_rms vs run
χ² / ndf 4125 / 88
p0 69.05 ± 0.0523
76
74
72
70
68
66
64

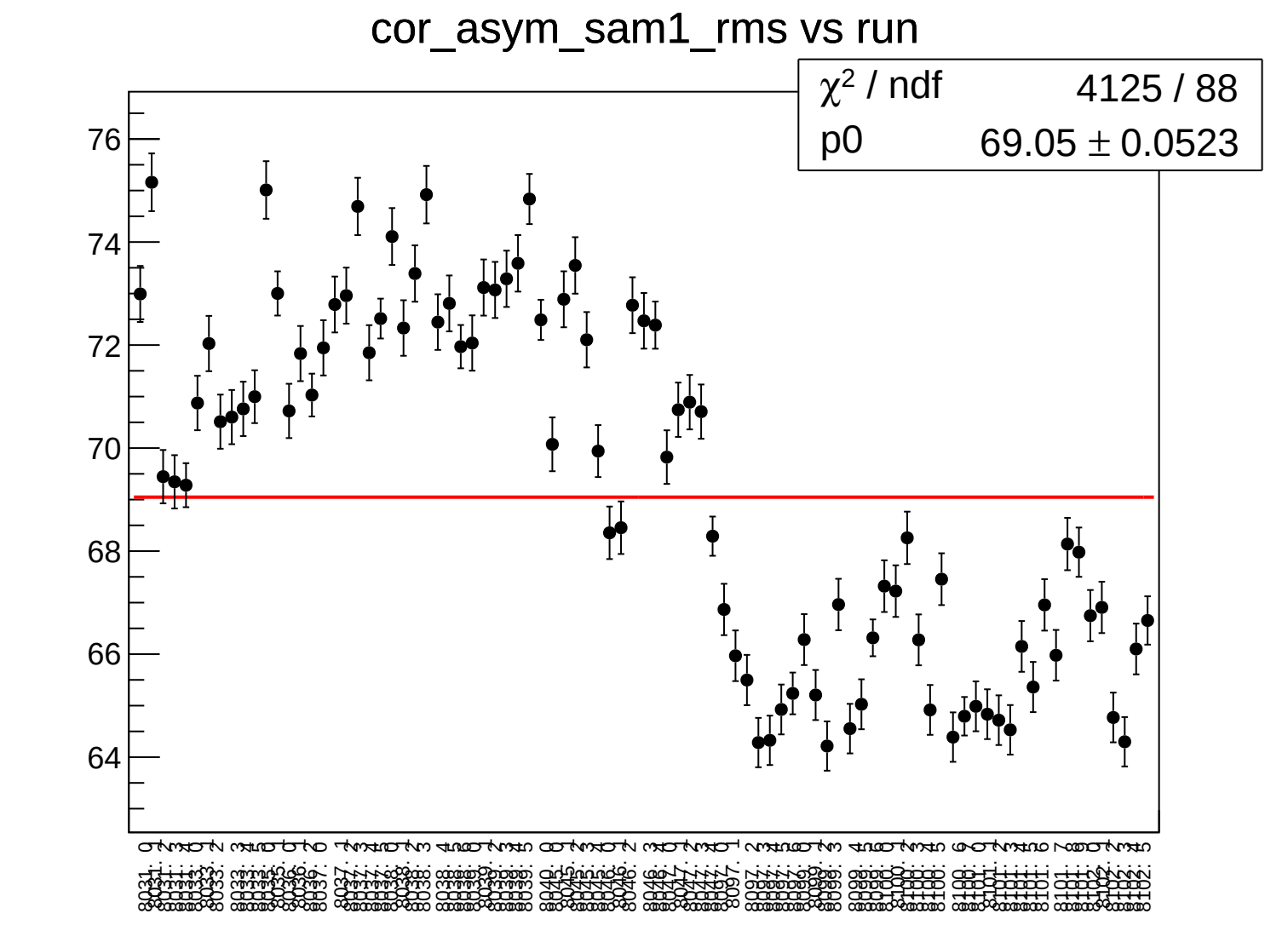

asym_sam1_reg_correction_mean vs run
χ² / ndf 104.3 / 88
p0 −390.2 ± 463.4
pull
Entries 89
Mean −64.37
Std Dev 0

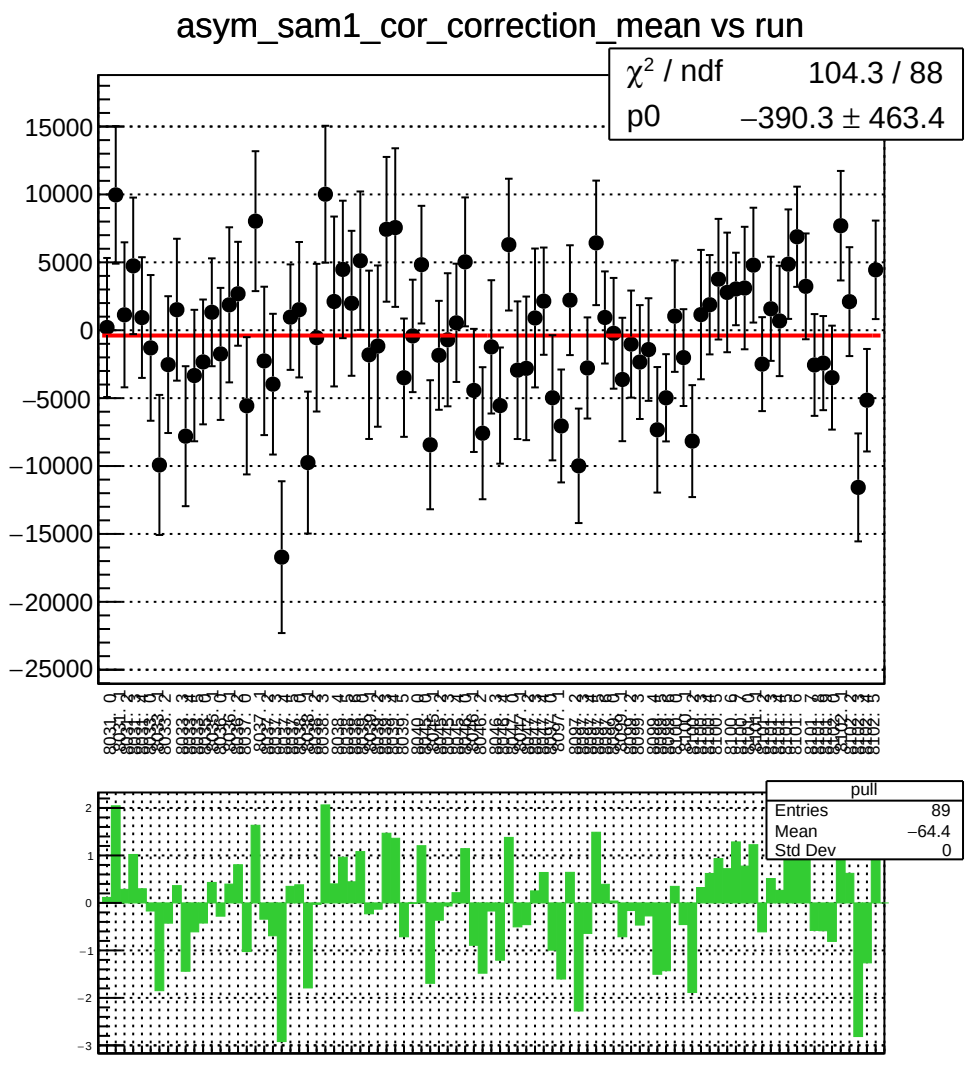

pull1D
Entries 89
Mean −0.005241
Std Dev 1.083

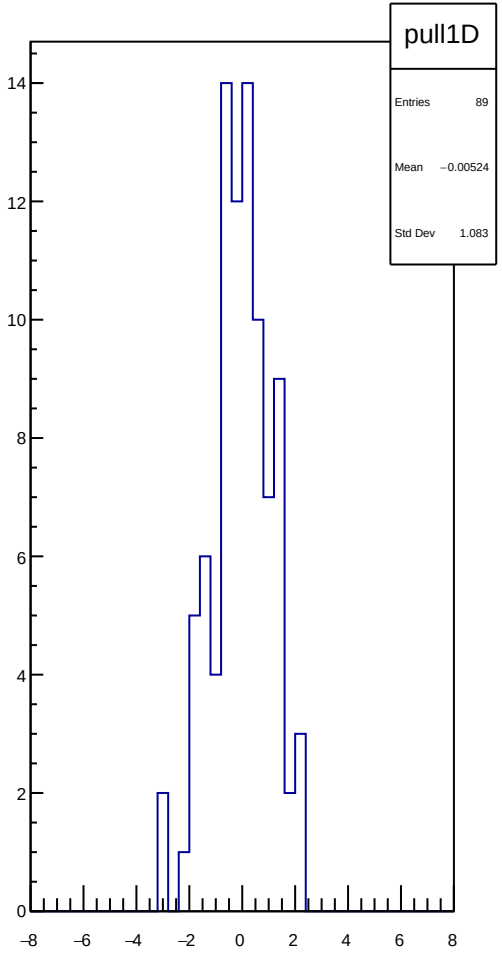

asym_sam1_reg_correction_rms vs run
χ² / ndf 3.957e+04 / 88
p0 428.2 ± 0.3277
650
600
550
500
450
400
350
300

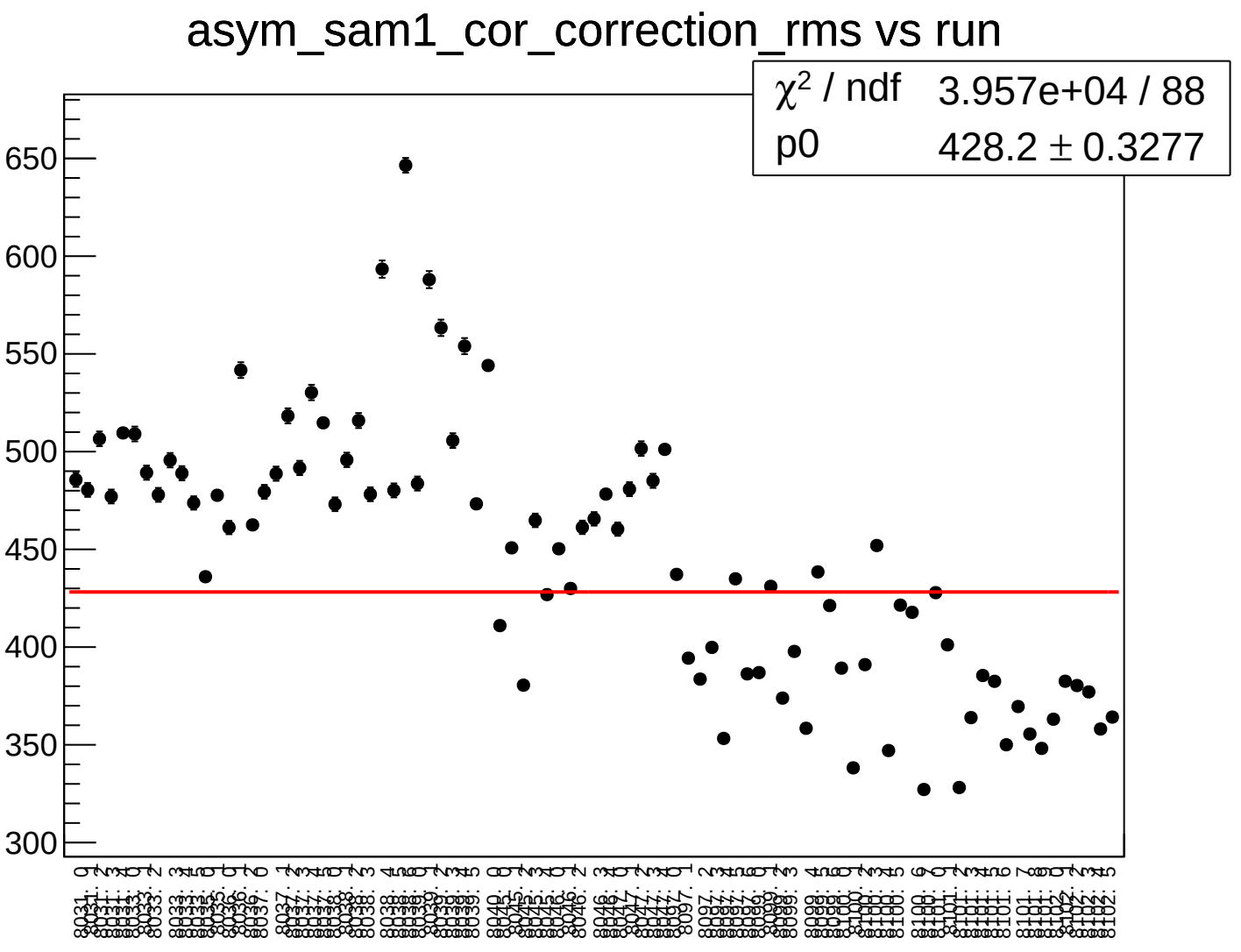

cor_asym_sam1_mean vs run
χ² / ndf 71.36 / 88
p0 −26.43 ± 73.96
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −163.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

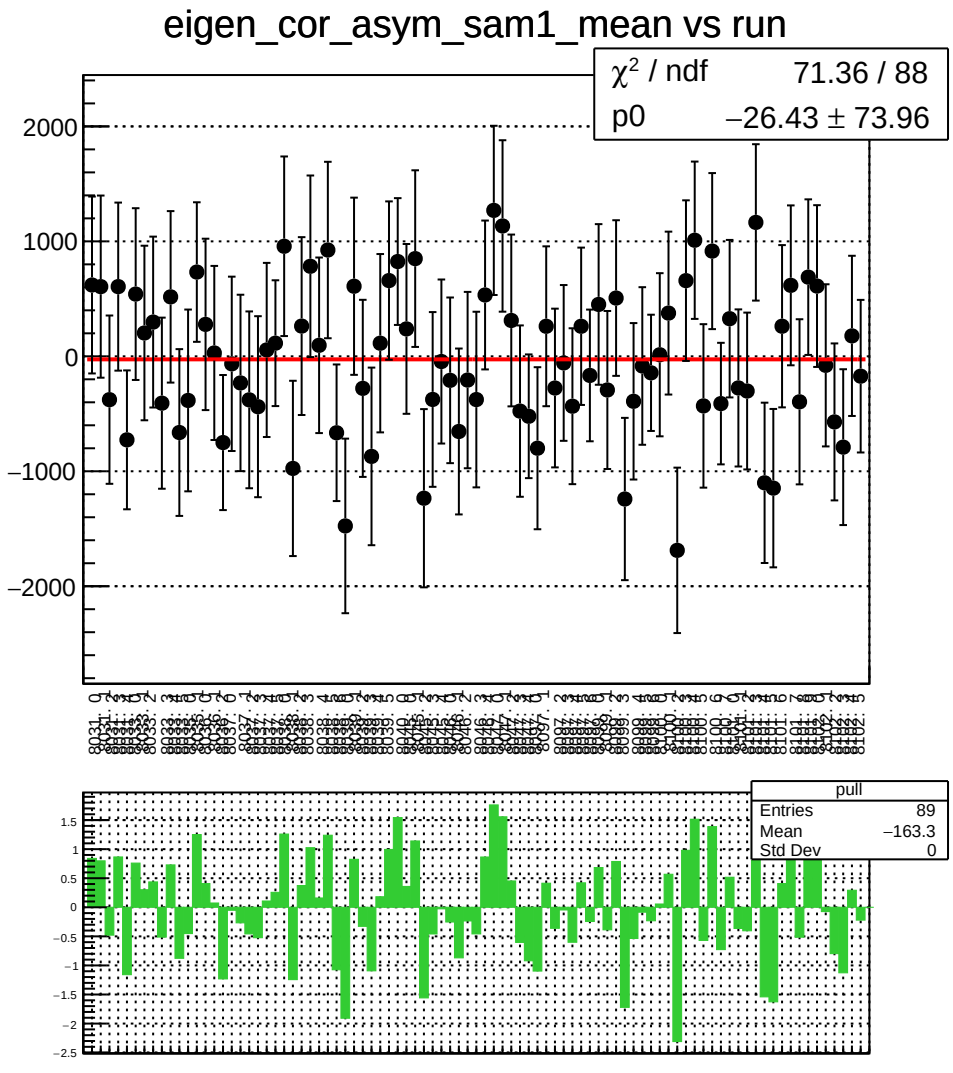

pull1D
Entries 89
Mean 0.006843
Std Dev 0.8954
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

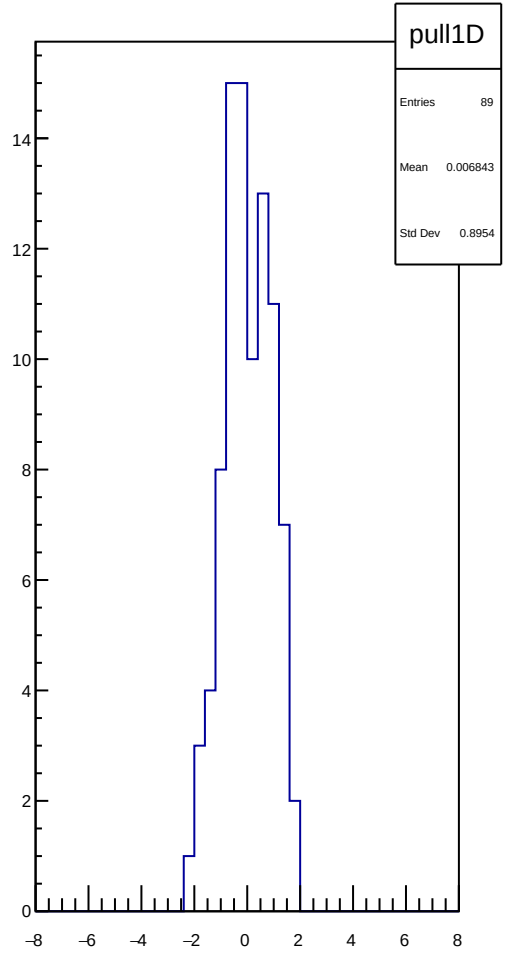

cor_asym_sam1_rms vs run
χ² / ndf 4125 / 88
p0 69.05 ± 0.0523
76
74
72
70
68
66
64

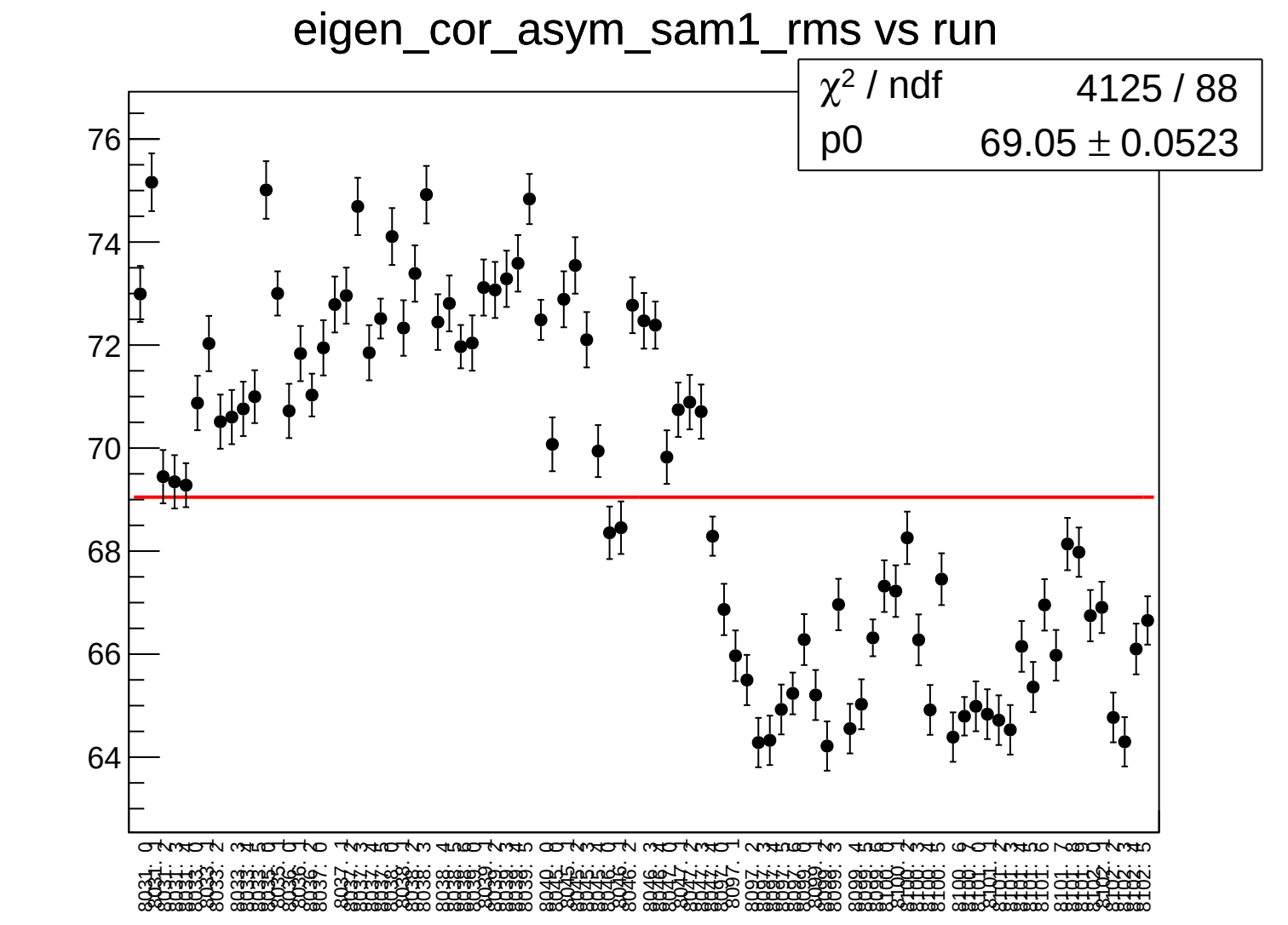

asym_sam1_cor_correction_mean vs run
χ² / ndf 104.3 / 88
p0 −390.3 ± 463.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 89
Mean −64.4
Std Dev 0
2
1
0
−1
−2
−3

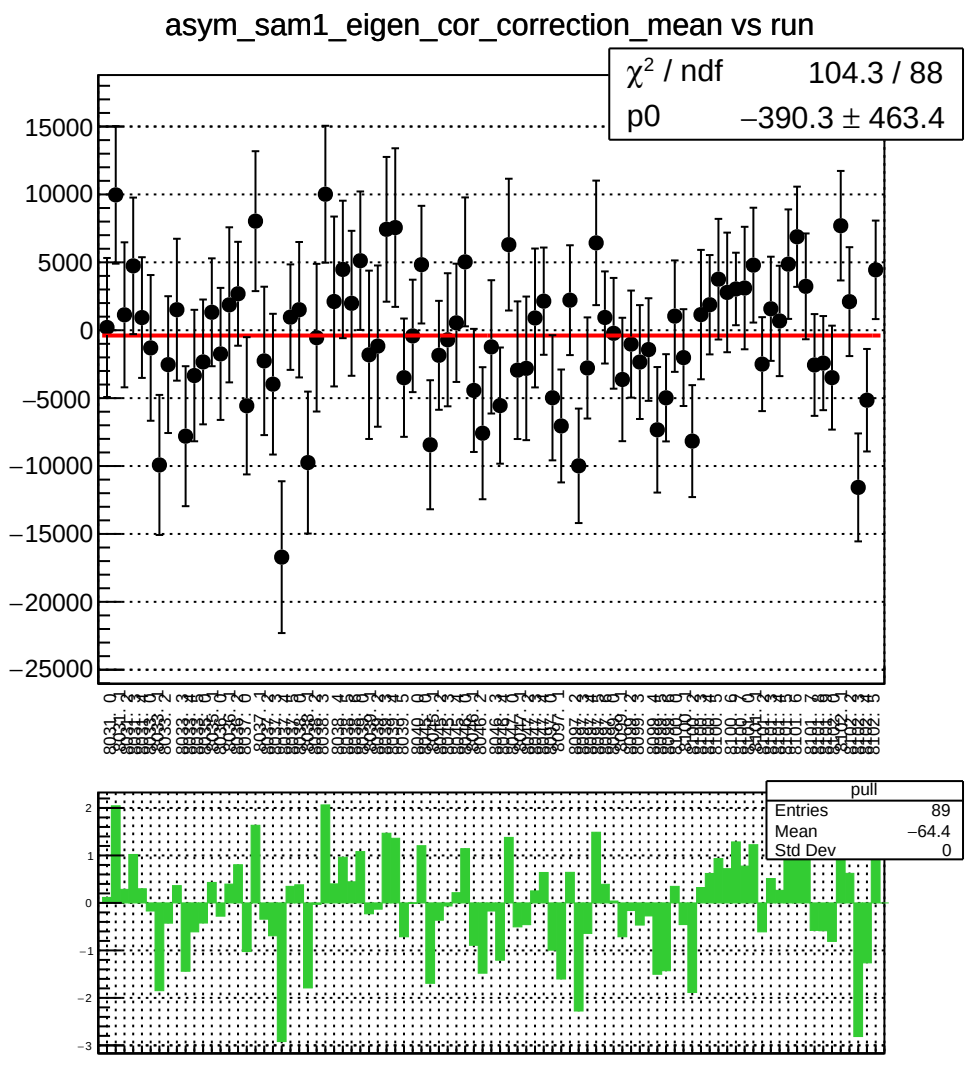

pull1D
Entries 89
Mean −0.00524
Std Dev 1.083
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

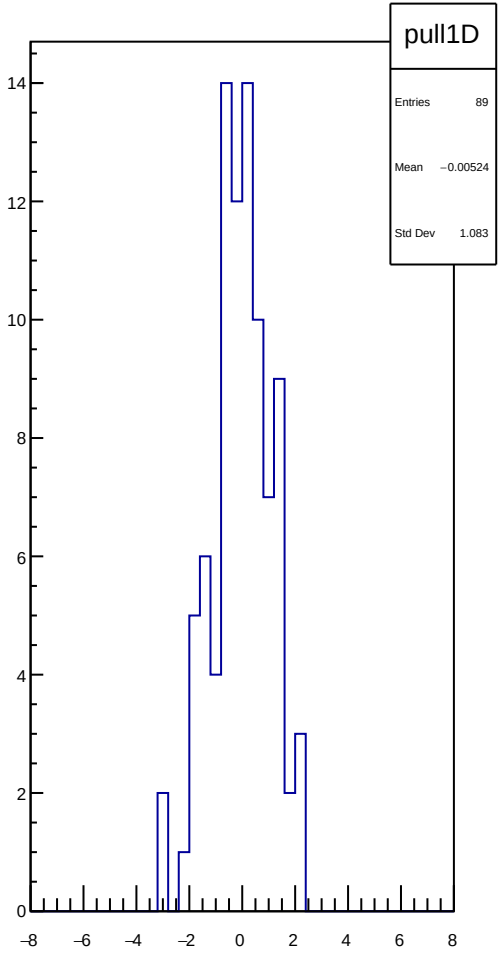

asym_sam1_cor_correction_rms vs run
χ² / ndf 3.957e+04 / 88
p0 428.2 ± 0.3277
650
600
550
500
450
400
350
300

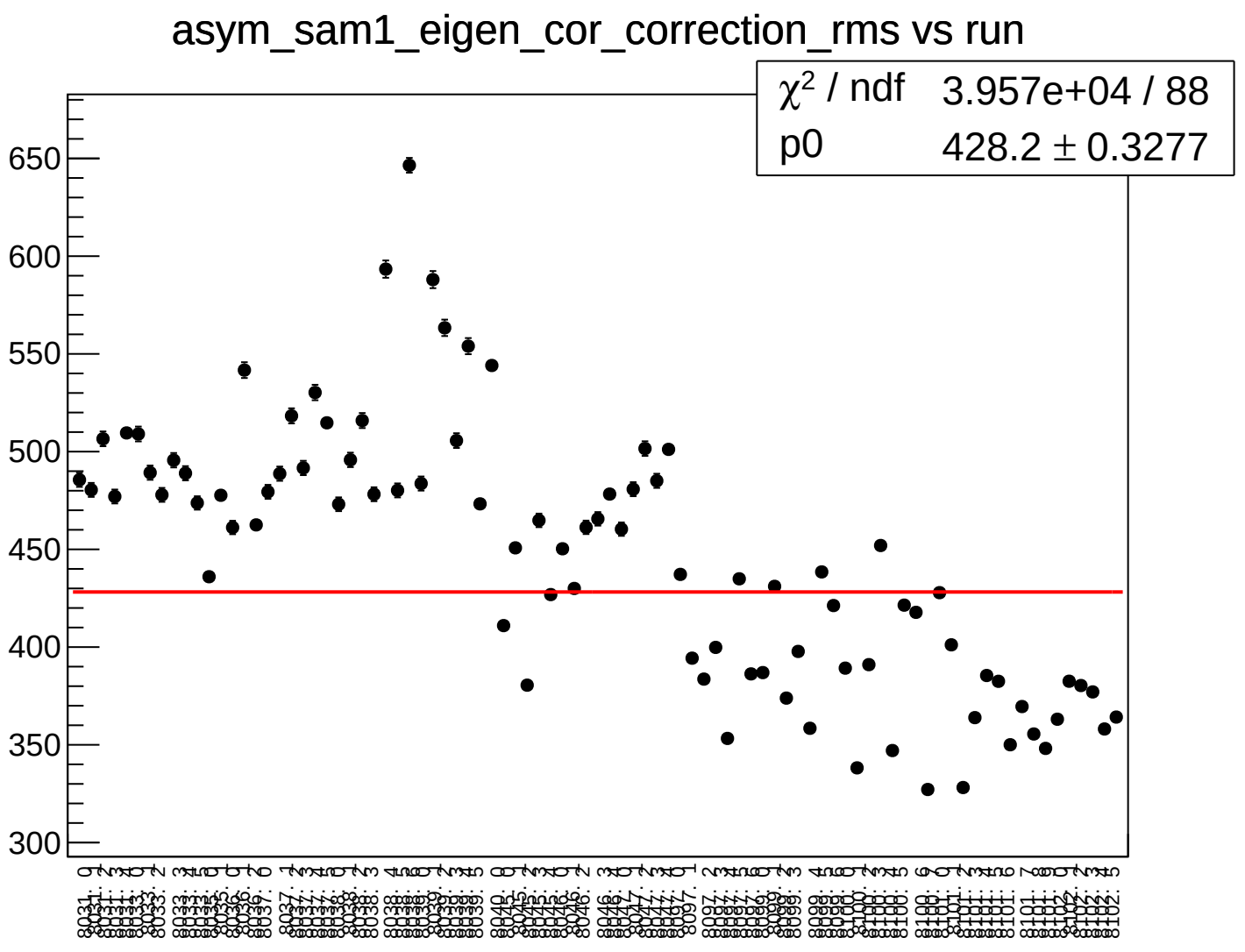

eigen_cor_asym_sam1_mean vs run
χ² / ndf 71.36 / 88
p0 −26.43 ± 73.96
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −163.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

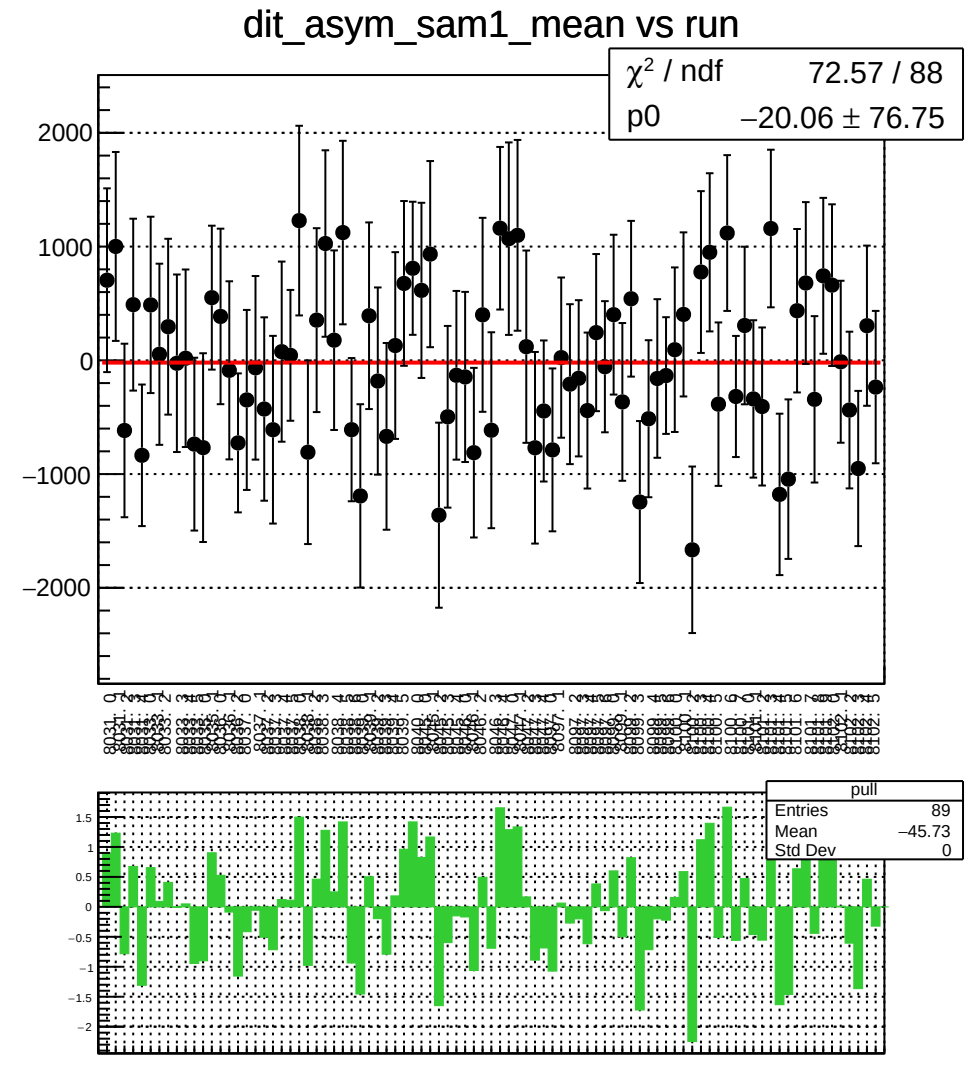

pull1D
Entries 89
Mean 0.006843
Std Dev 0.8954
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

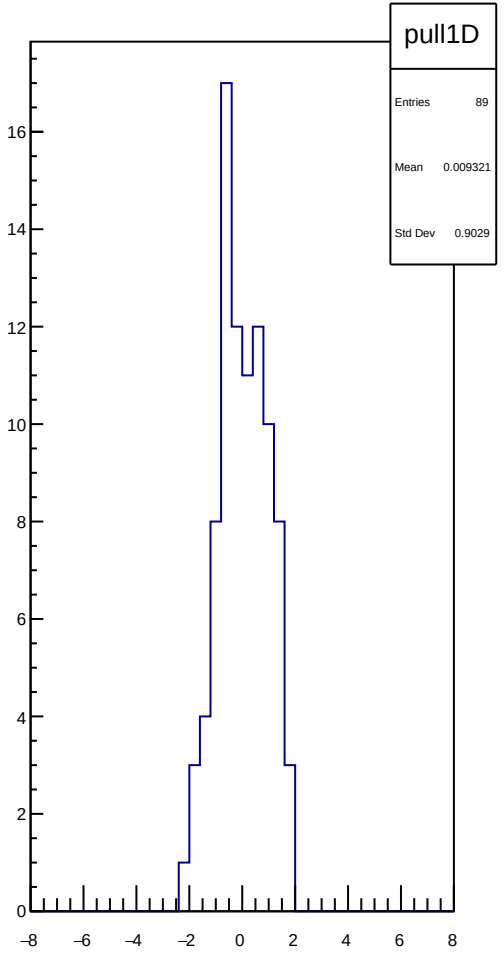

eigen_cor_asym_sam1_rms vs run
χ² / ndf 4125 / 88
p0 69.05 ± 0.0523
76
74
72
70
68
66
64

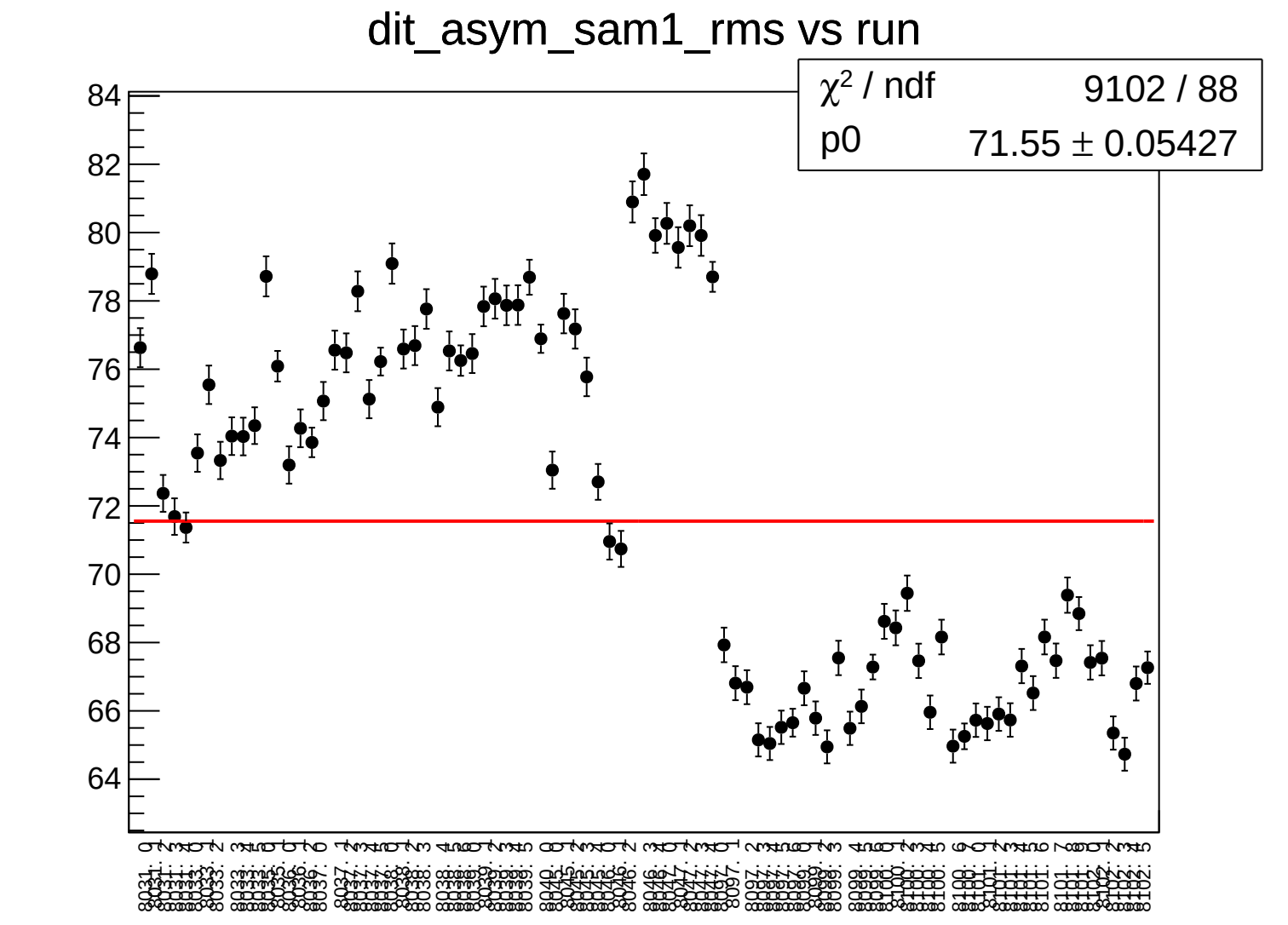

asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 104.3 / 88
p0 −390.3 ± 463.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 89
Mean −64.4
Std Dev 0
2
1
0
−1
−2
−3

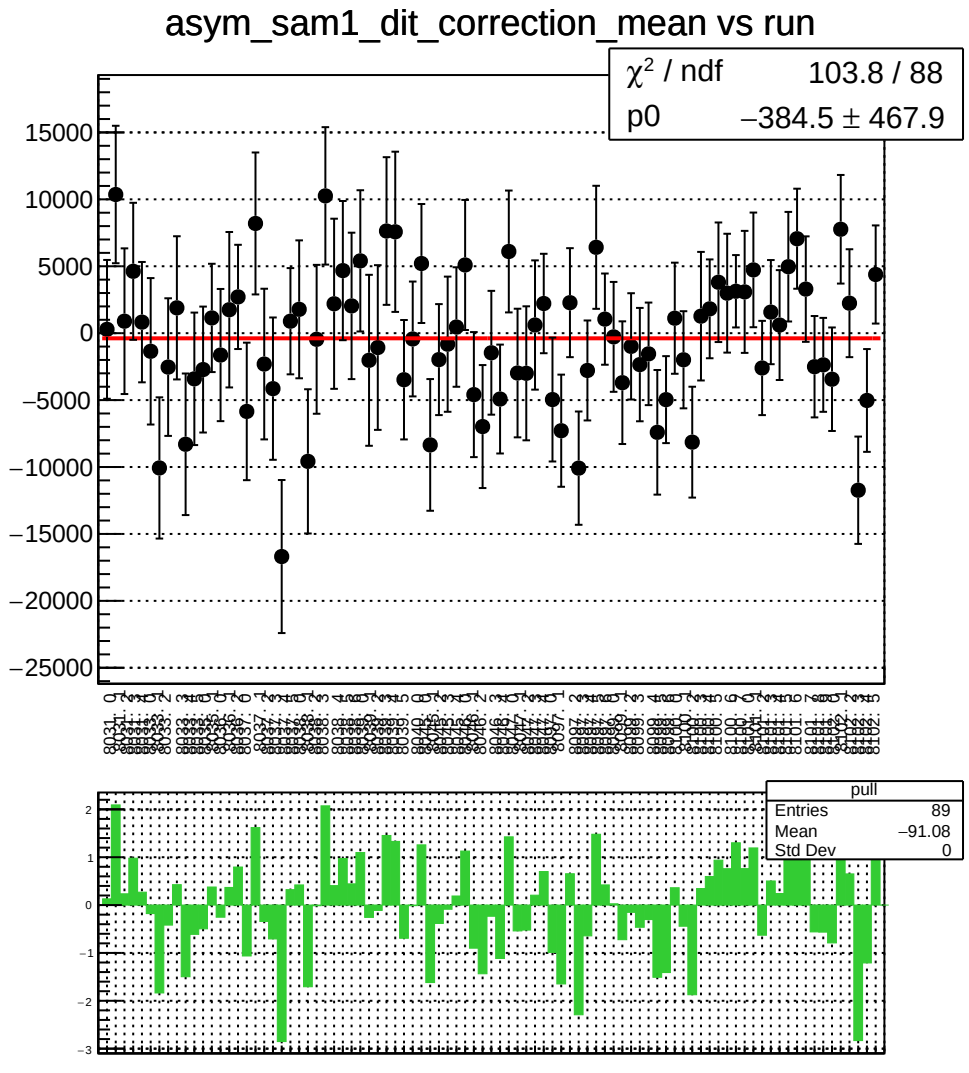

pull1D
Entries 89
Mean −0.00524
Std Dev 1.083
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

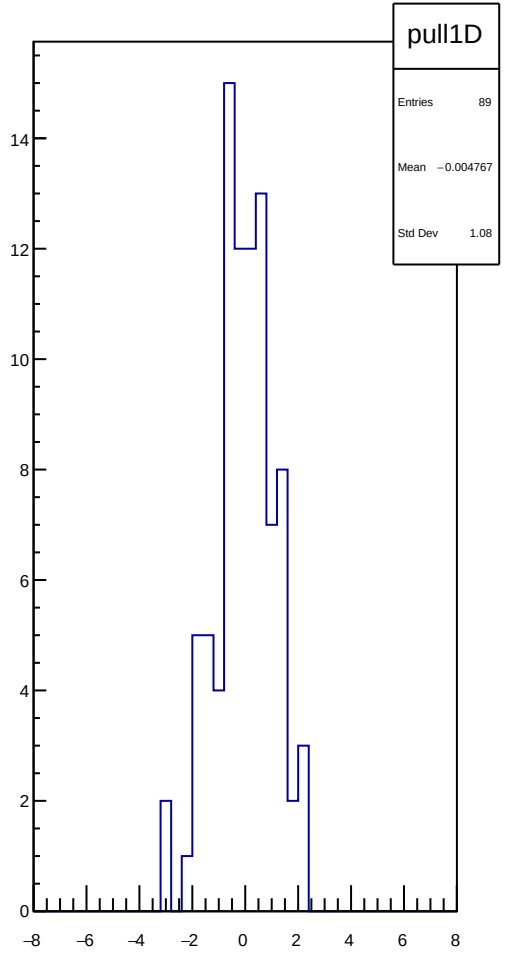

asym_sam1_eigen_cor_correction_rms vs run
χ² / ndf 3.957e+04 / 88
p0 428.2 ± 0.3277
650
600
550
500
450
400
350
300

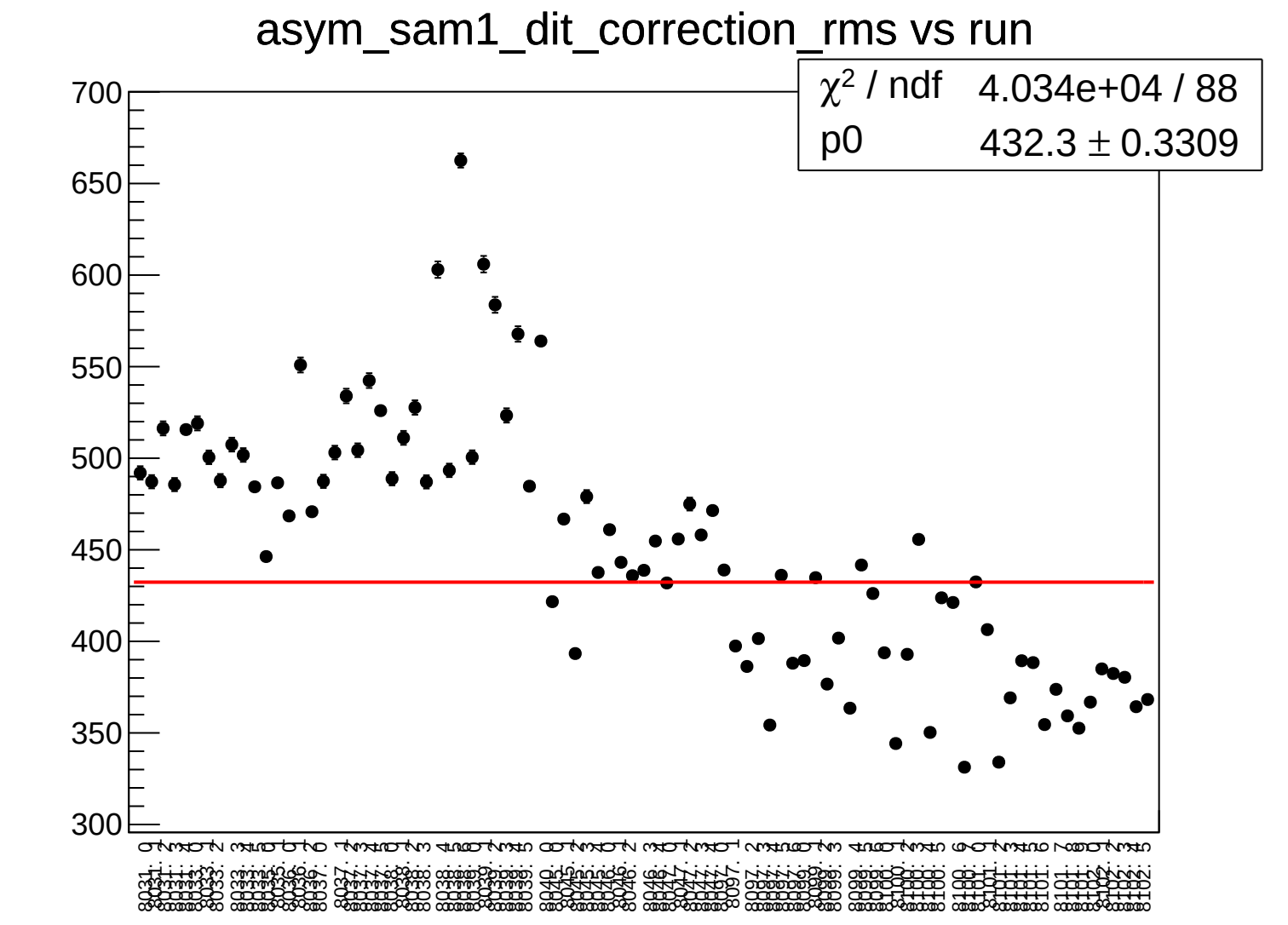

dit_asym_sam1_mean vs run
χ² / ndf 72.57 / 88
p0 −20.06 ± 76.75
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −45.73
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

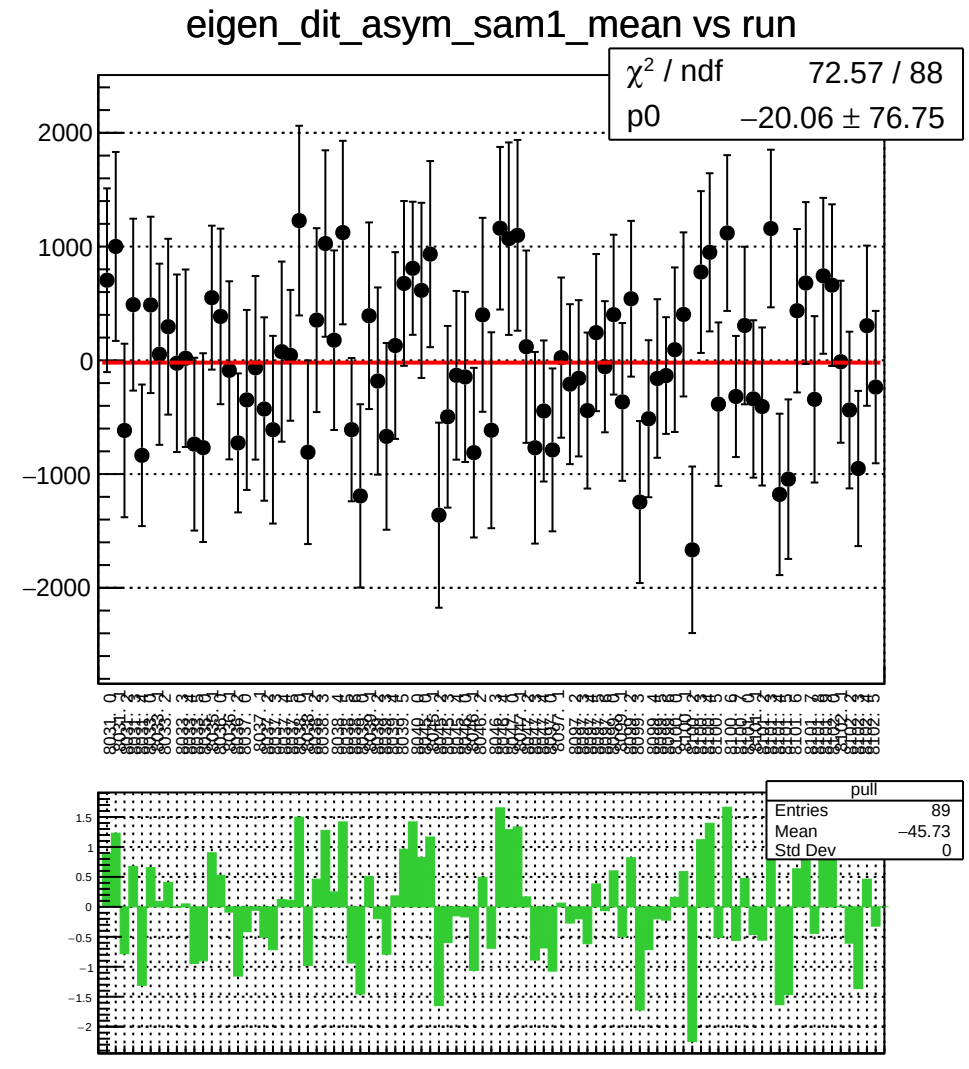

pull1D
Entries 89
Mean 0.009321
Std Dev 0.9029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

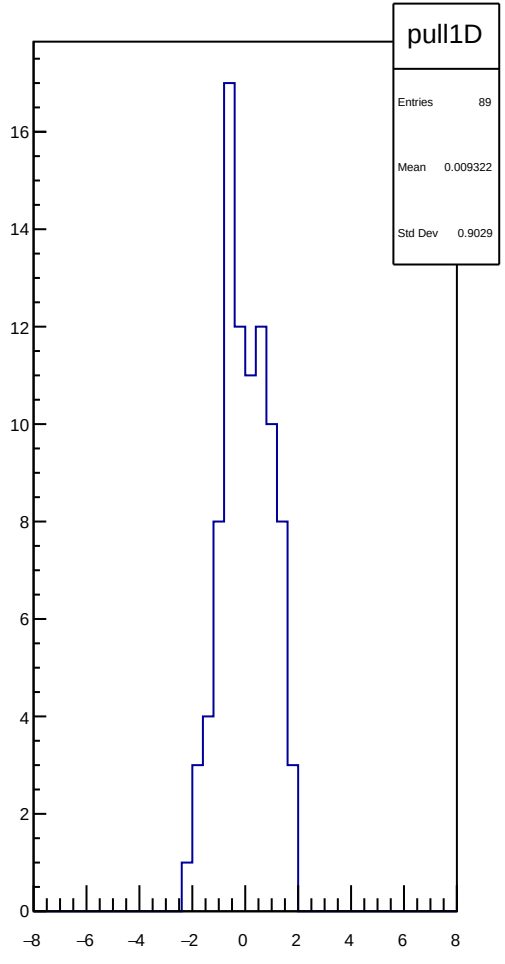

dit_asym_sam1_rms vs run
χ² / ndf 9102 / 88
p0 71.55 ± 0.05427
84
82
80
78
76
74
72
70
68
66
64

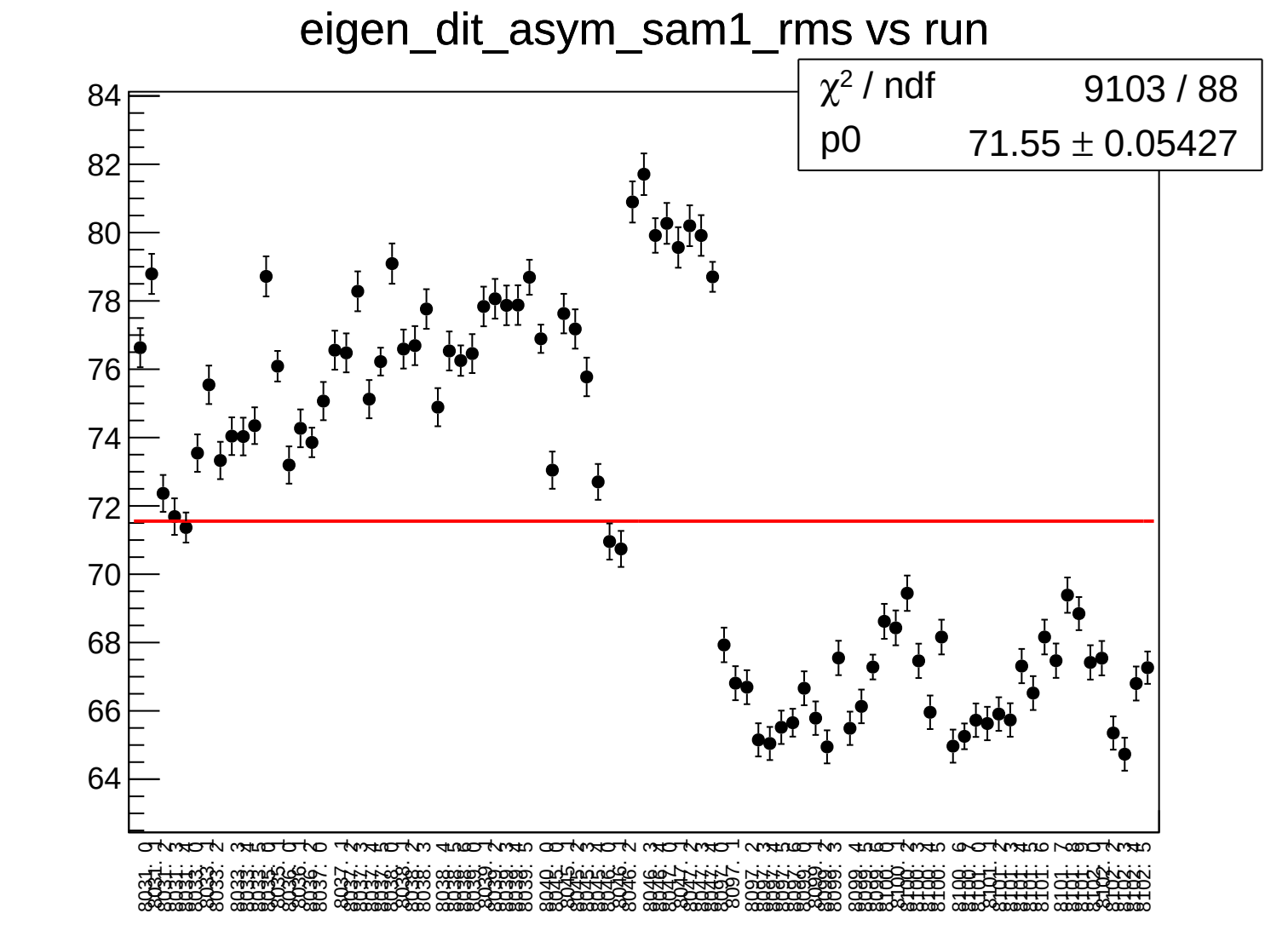

asym_sam1_dit_correction_mean vs run
χ² / ndf 103.8 / 88
p0 −384.5 ± 467.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 89
Mean −91.08
Std Dev 0
2
1
0
−1
−2
−3

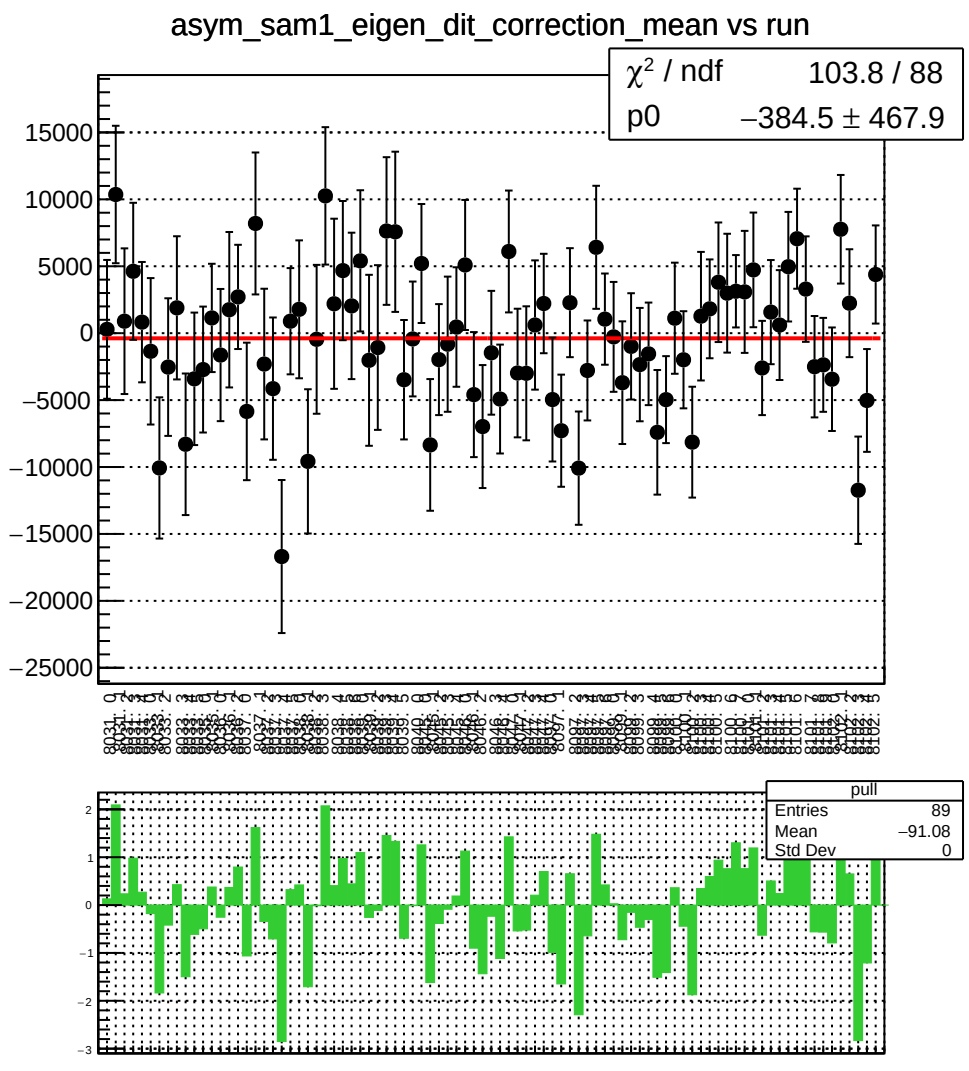

pull1D
Entries 89
Mean −0.004767
Std Dev 1.08
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

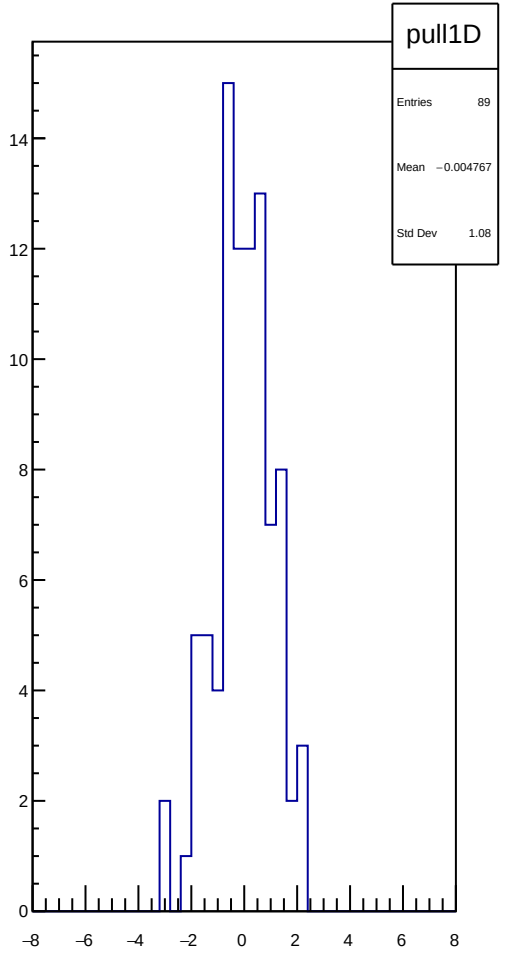

asym_sam1_dit_correction_rms vs run
χ² / ndf 4.034e+04 / 88
p0 432.3 ± 0.3309
700
650
600
550
500
450
400
350
300

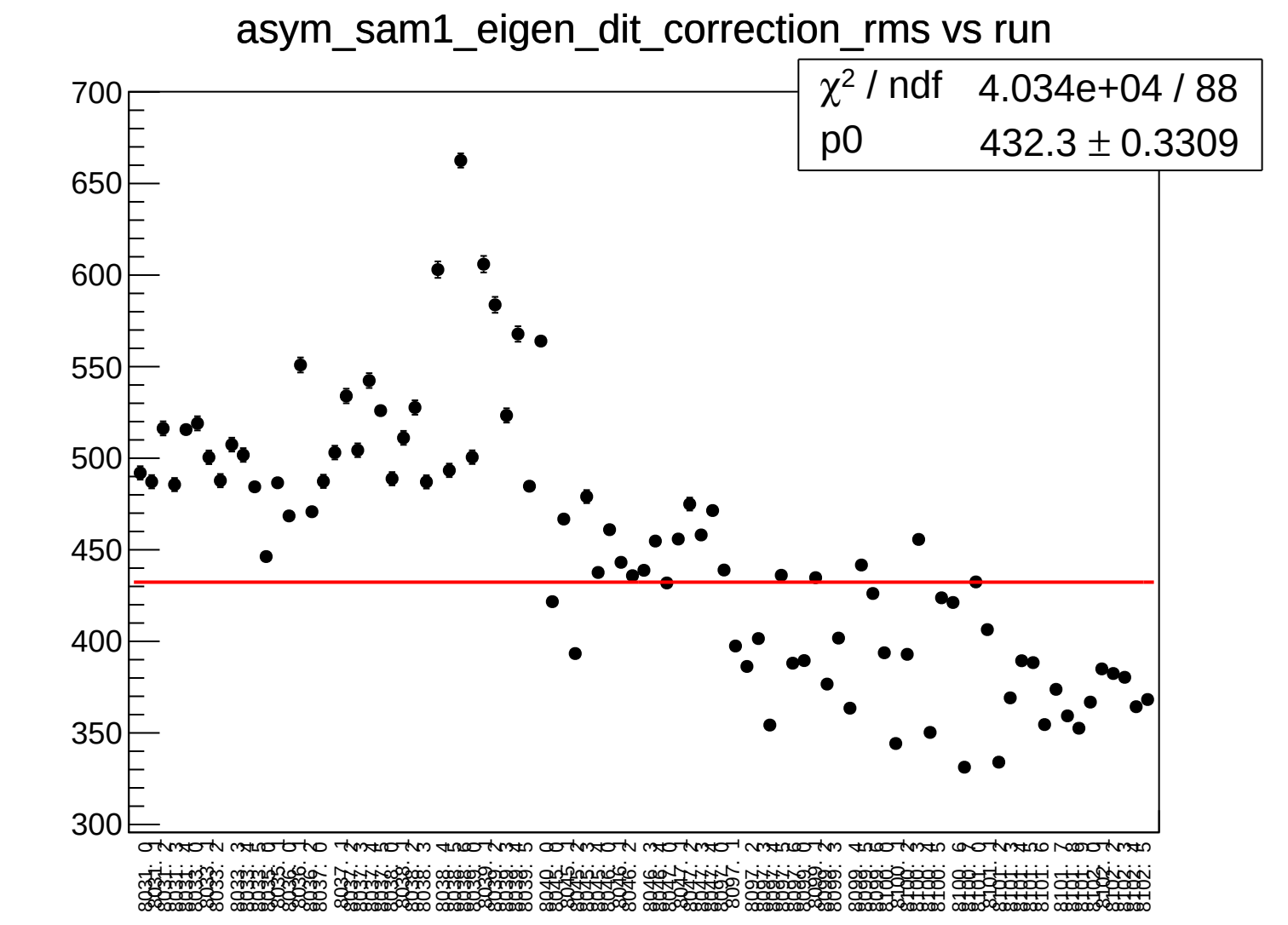

eigen_dit_asym_sam1_mean vs run
χ² / ndf 72.57 / 88
p0 −20.06 ± 76.75
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −45.73
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

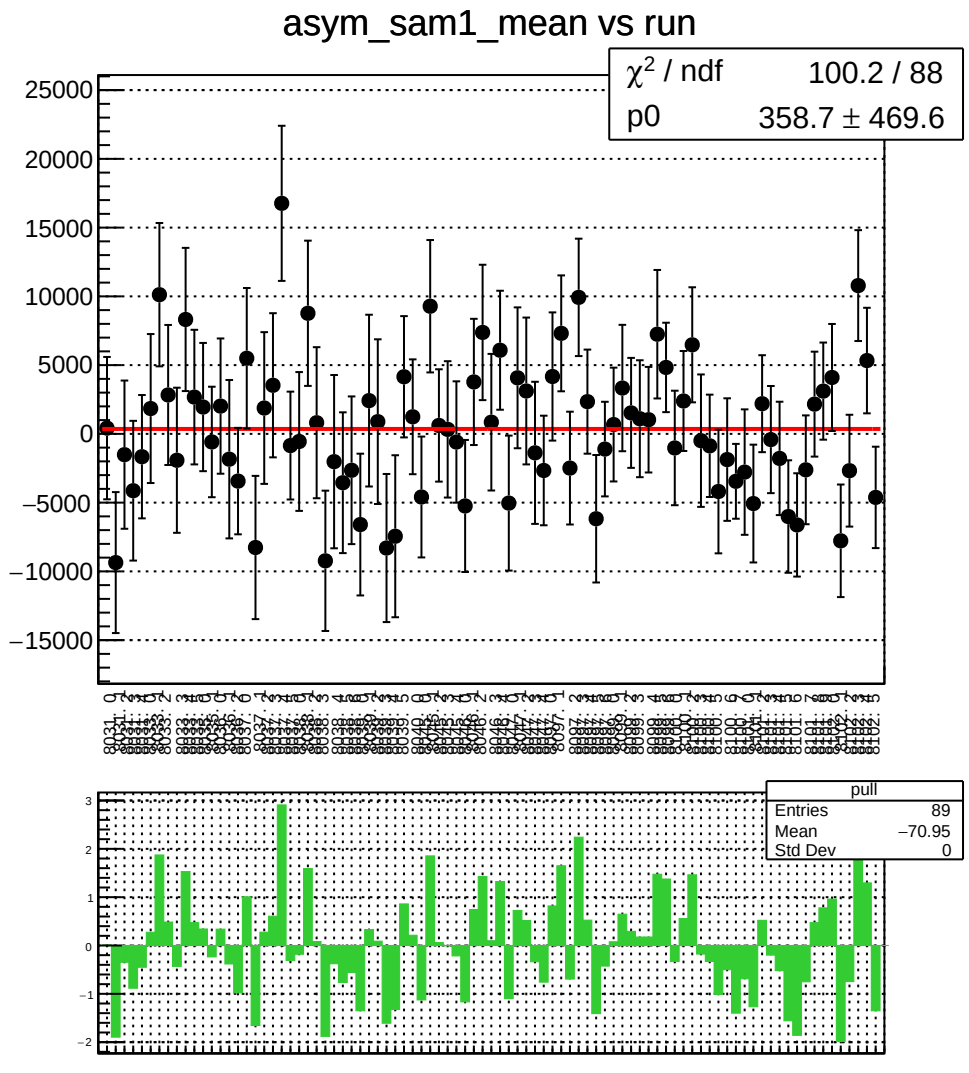

pull1D
Entries 89
Mean 0.009322
Std Dev 0.9029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

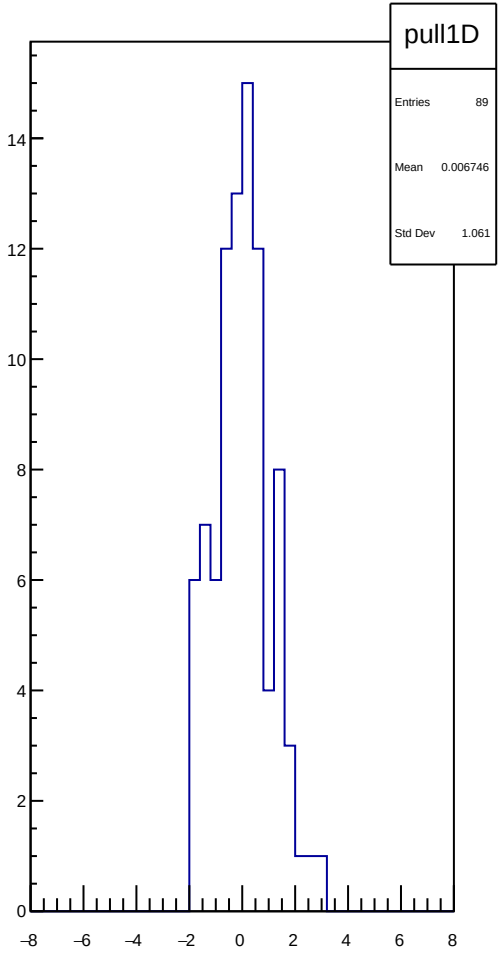

eigen_dit_asym_sam1_rms vs run
χ² / ndf 9103 / 88
p0 71.55 ± 0.05427
84
82
80
78
76
74
72
70
68
66
64

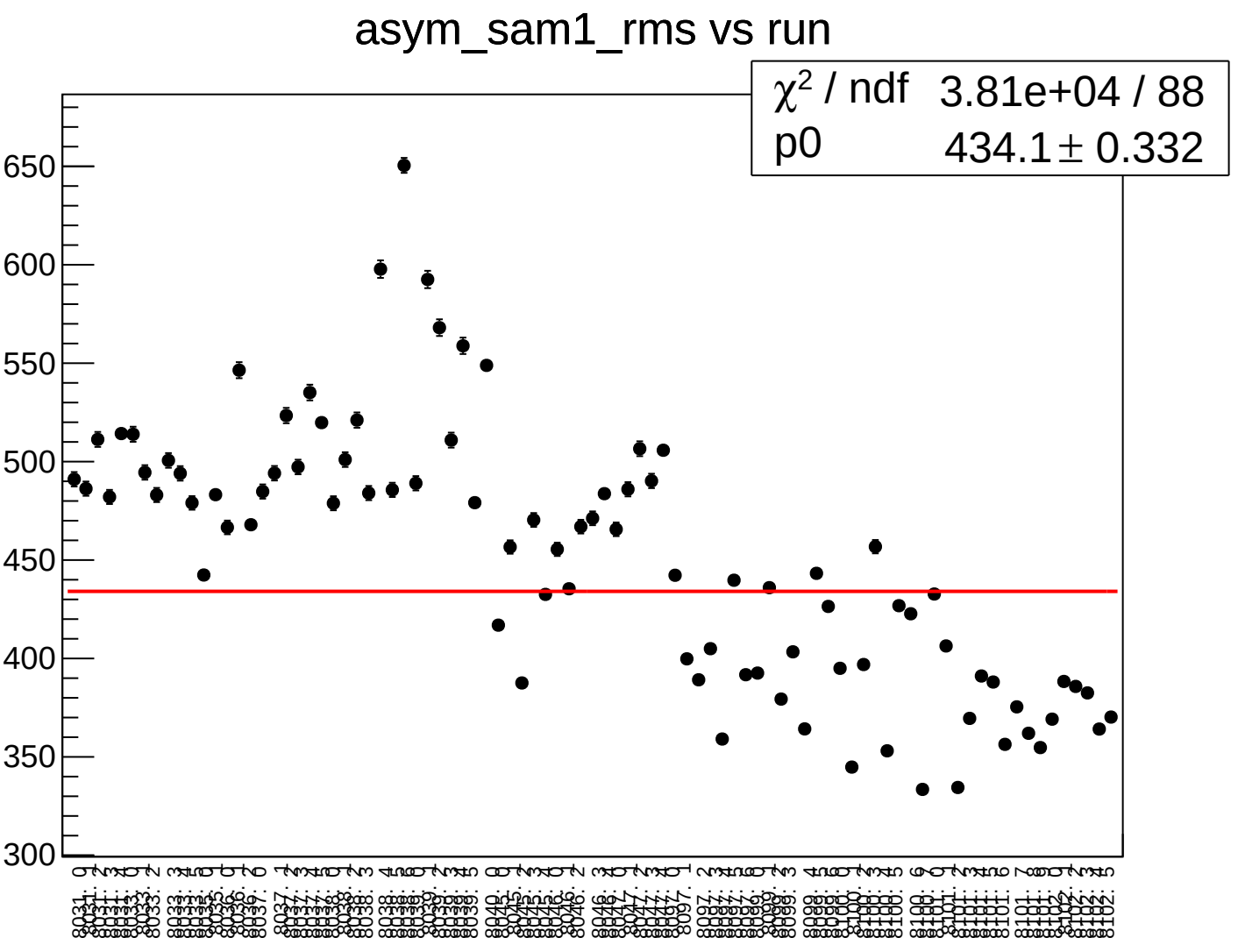

asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 103.8 / 88
p0 −384.5 ± 467.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 89
Mean −91.08
Std Dev 0
2
1
0
−1
−2
−3

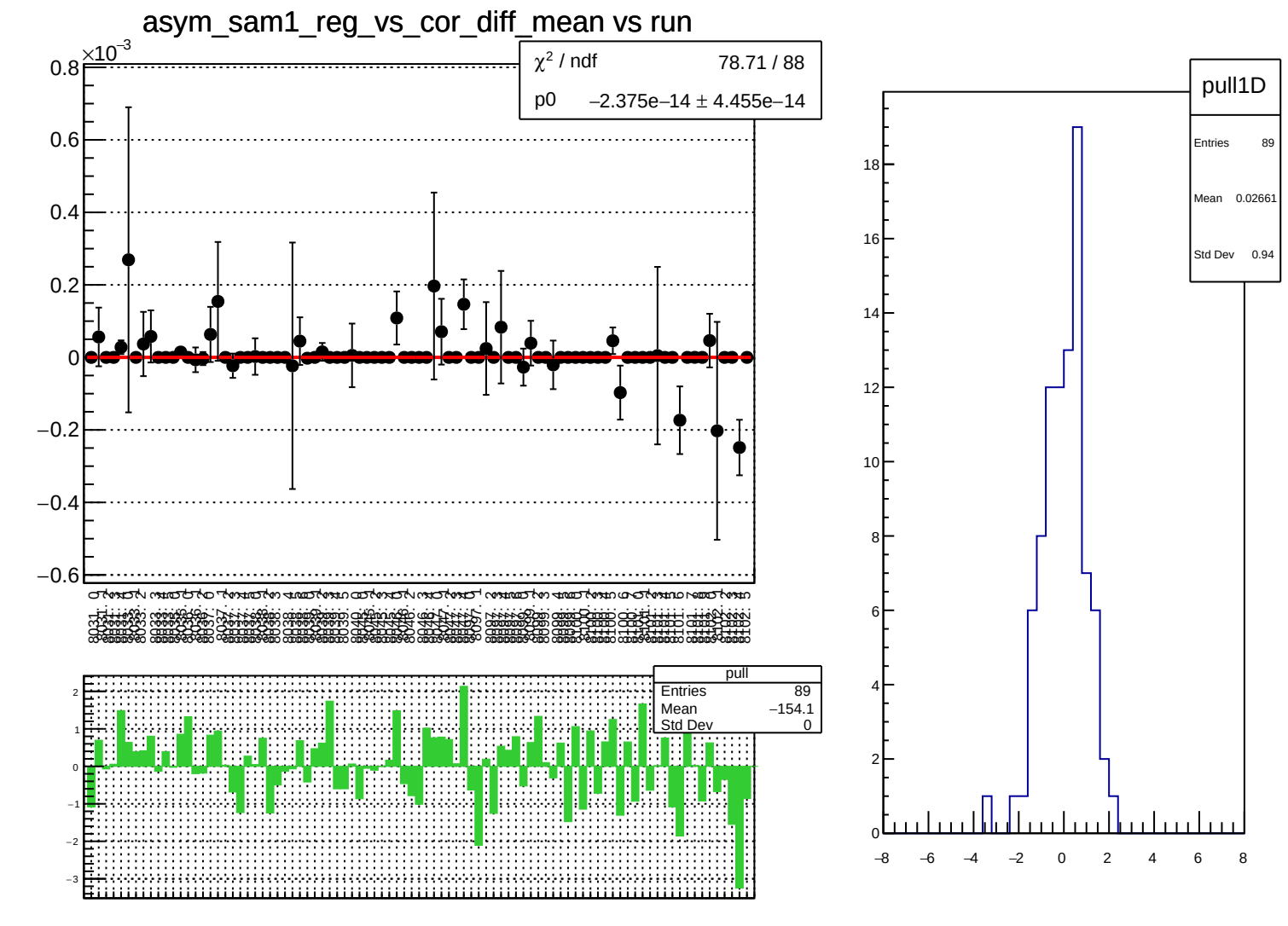

pull1D
Entries 89
Mean −0.004767
Std Dev 1.08
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

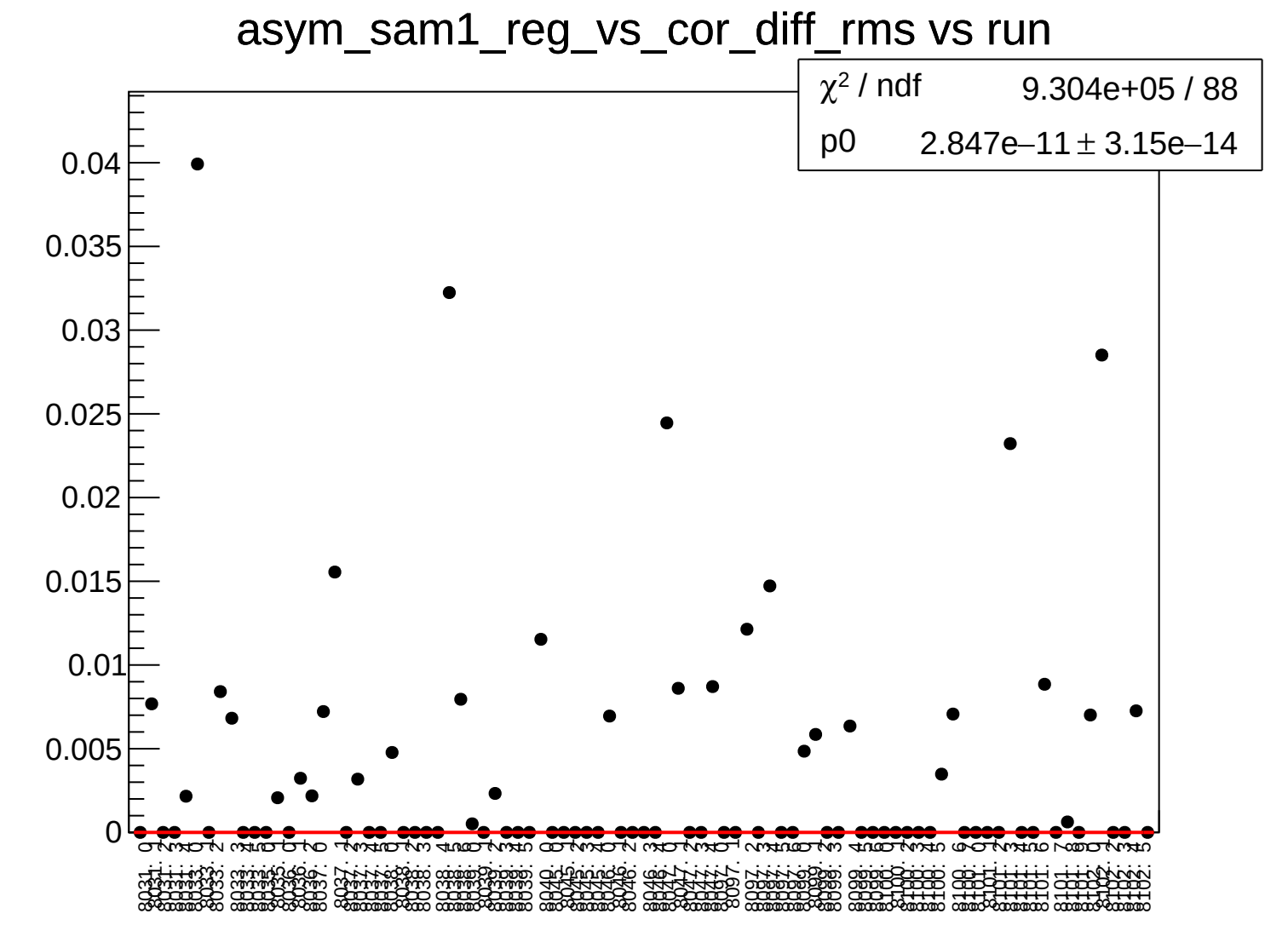

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 4.034e+04 / 88
p0 432.3 ± 0.3309
700
650
600
550
500
450
400
350
300

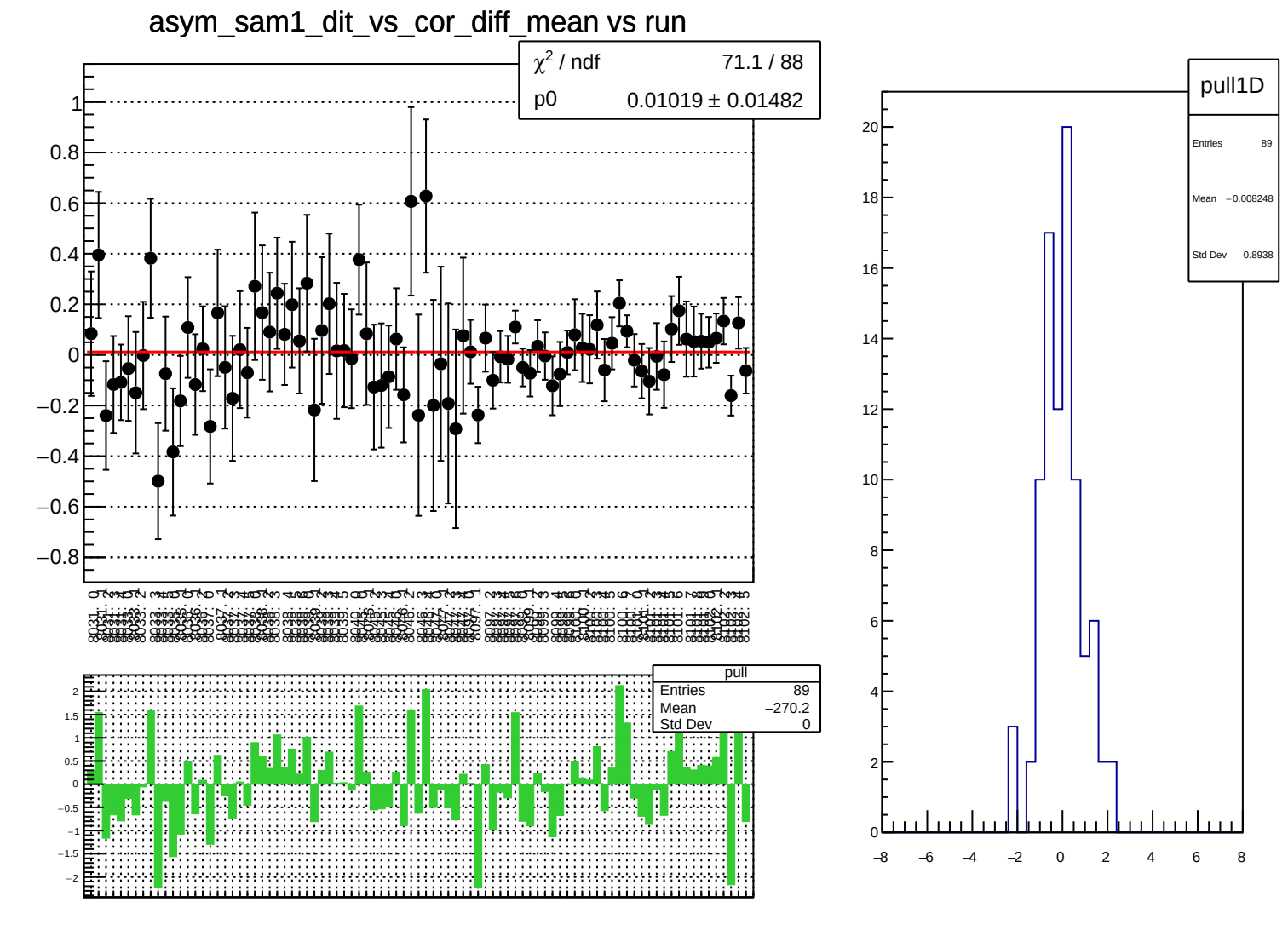

asym_sam1_mean vs run
χ² / ndf 100.2 / 88
p0 358.7 ± 469.6
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −70.95
Std Dev 0
3
2
1
0
−1
−2

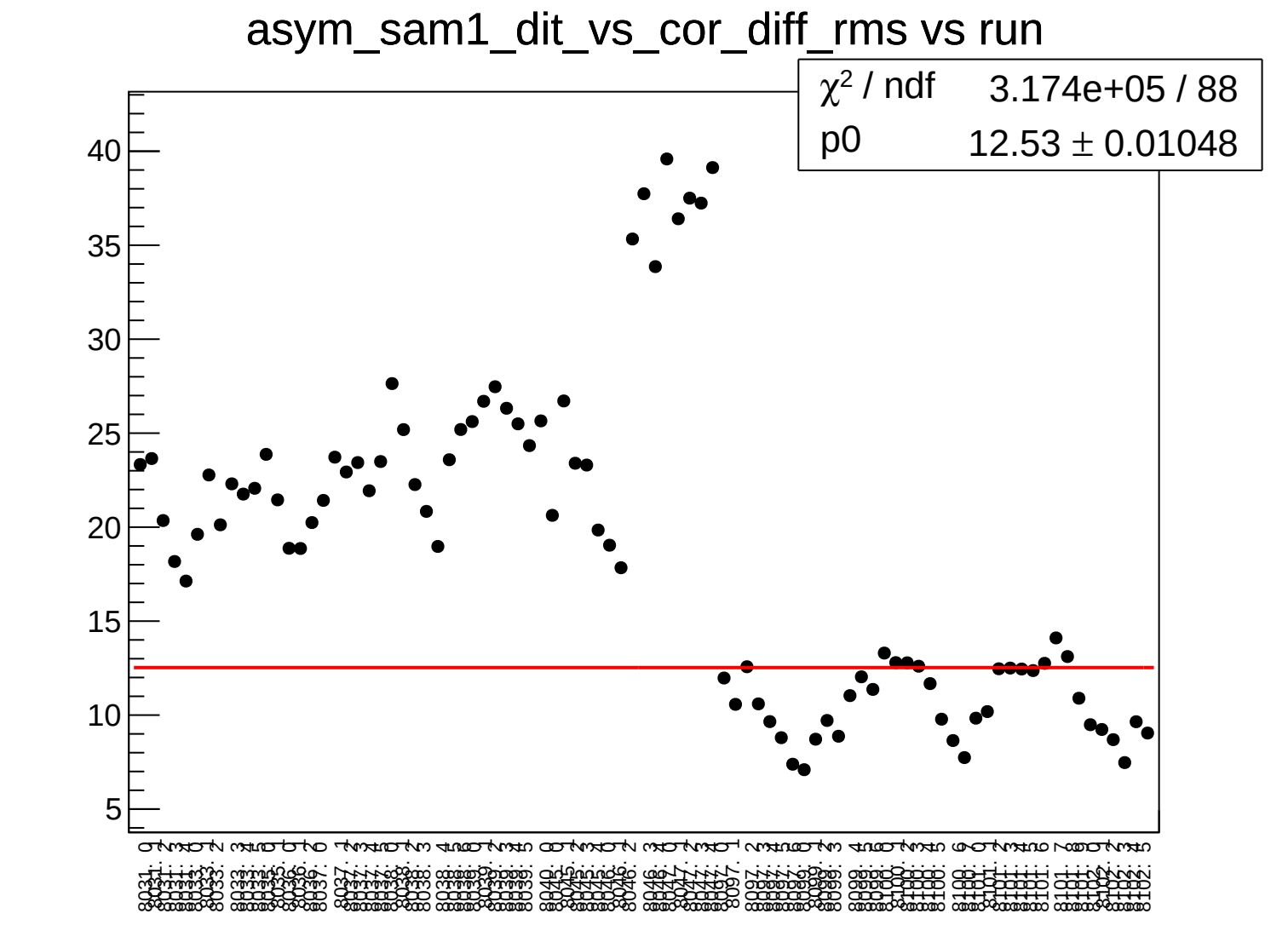

pull1D
Entries 89
Mean 0.006746
Std Dev 1.061
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

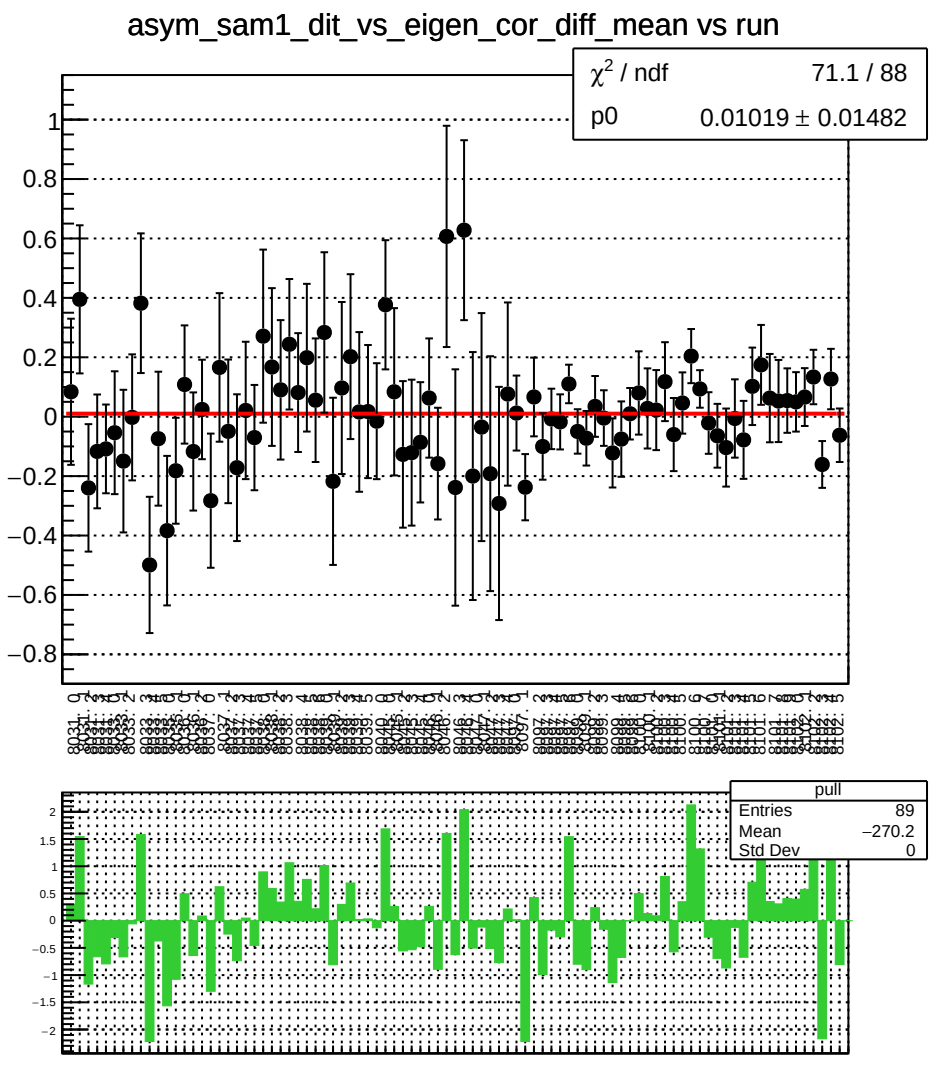

asym_sam1_rms vs run
χ² / ndf 3.81e+04 / 88
p0 434.1 ± 0.332
650
600
550
500
450
400
350
300

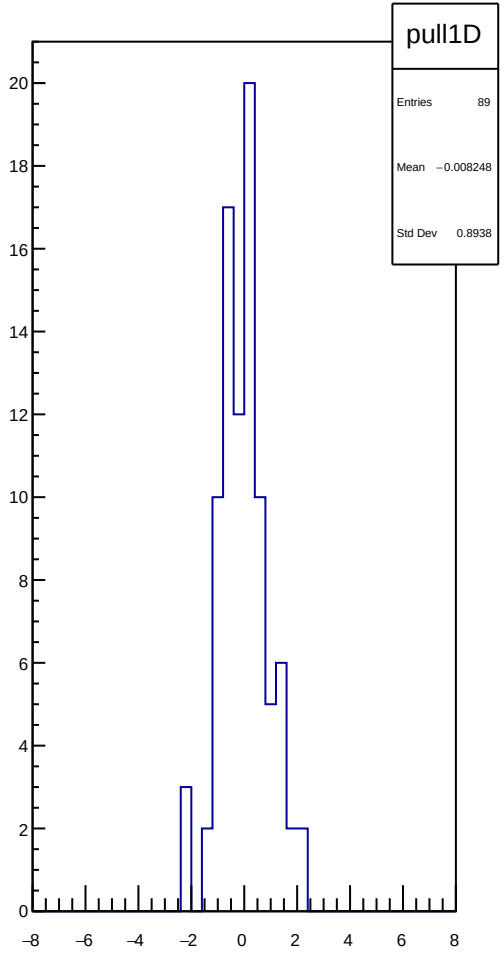

asym_sam1_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 78.71 / 88
p0 −2.375e−14 ± 4.455e−14
pull
Entries 89
Mean −154.1
Std Dev 0
pull1D
Entries 89
Mean 0.02661
Std Dev 0.94

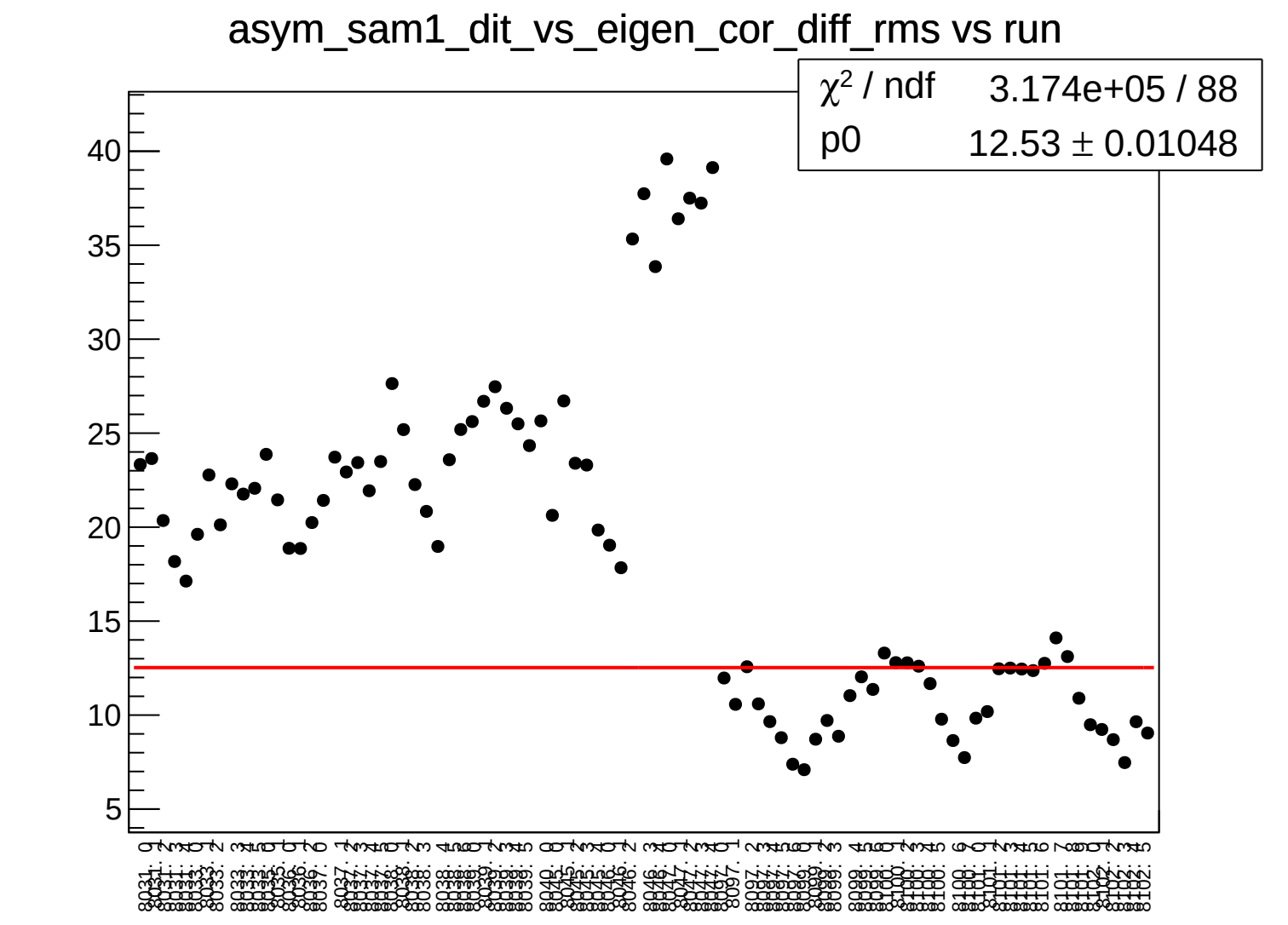

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 9.304e+05 / 88
p0 2.847e−11 ± 3.15e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

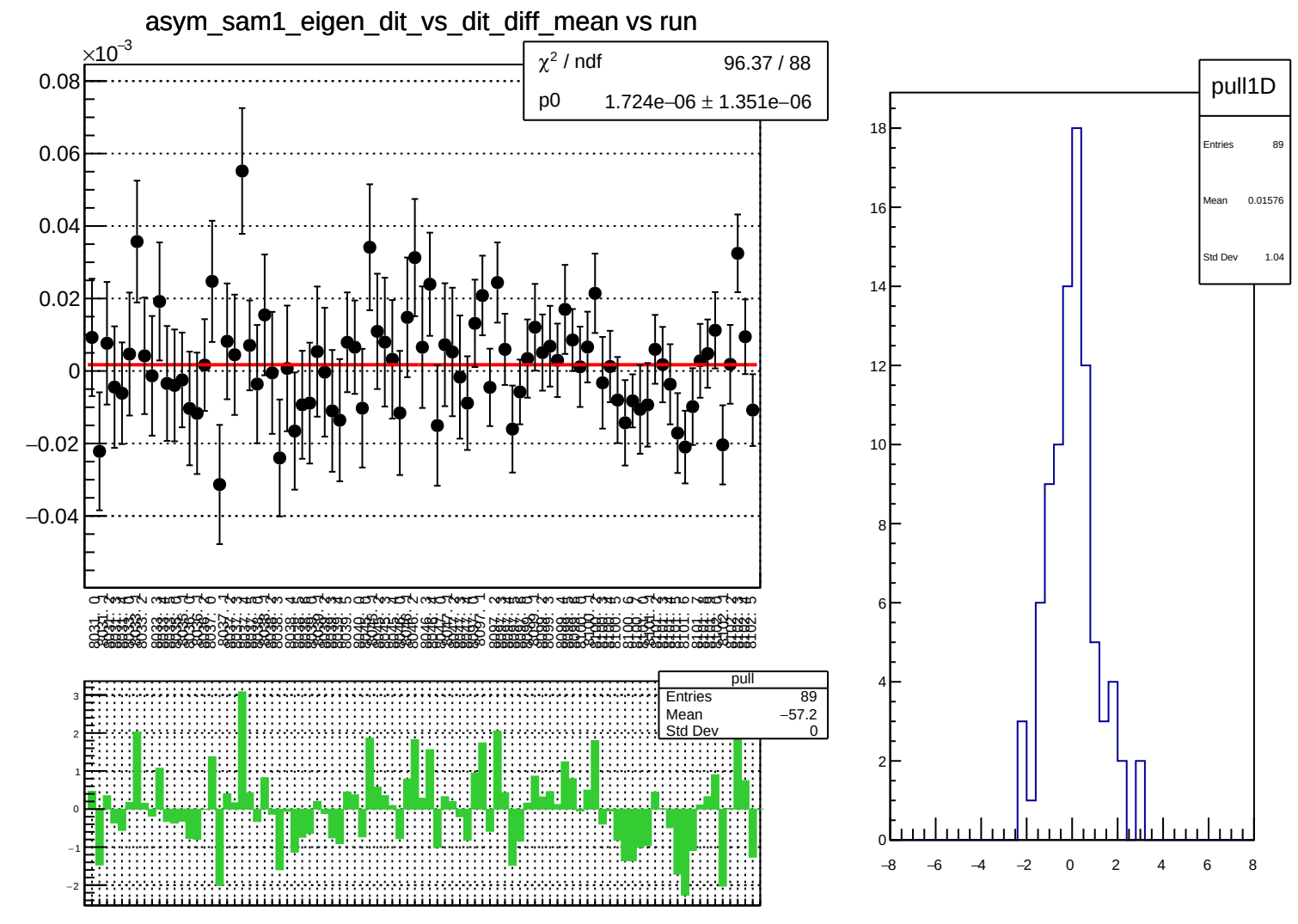

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 71.1 / 88
p0 0.01019 ± 0.01482
pull
Entries 89
Mean −270.2
Std Dev 0
pull1D
Entries 89
Mean −0.008248
Std Dev 0.8938

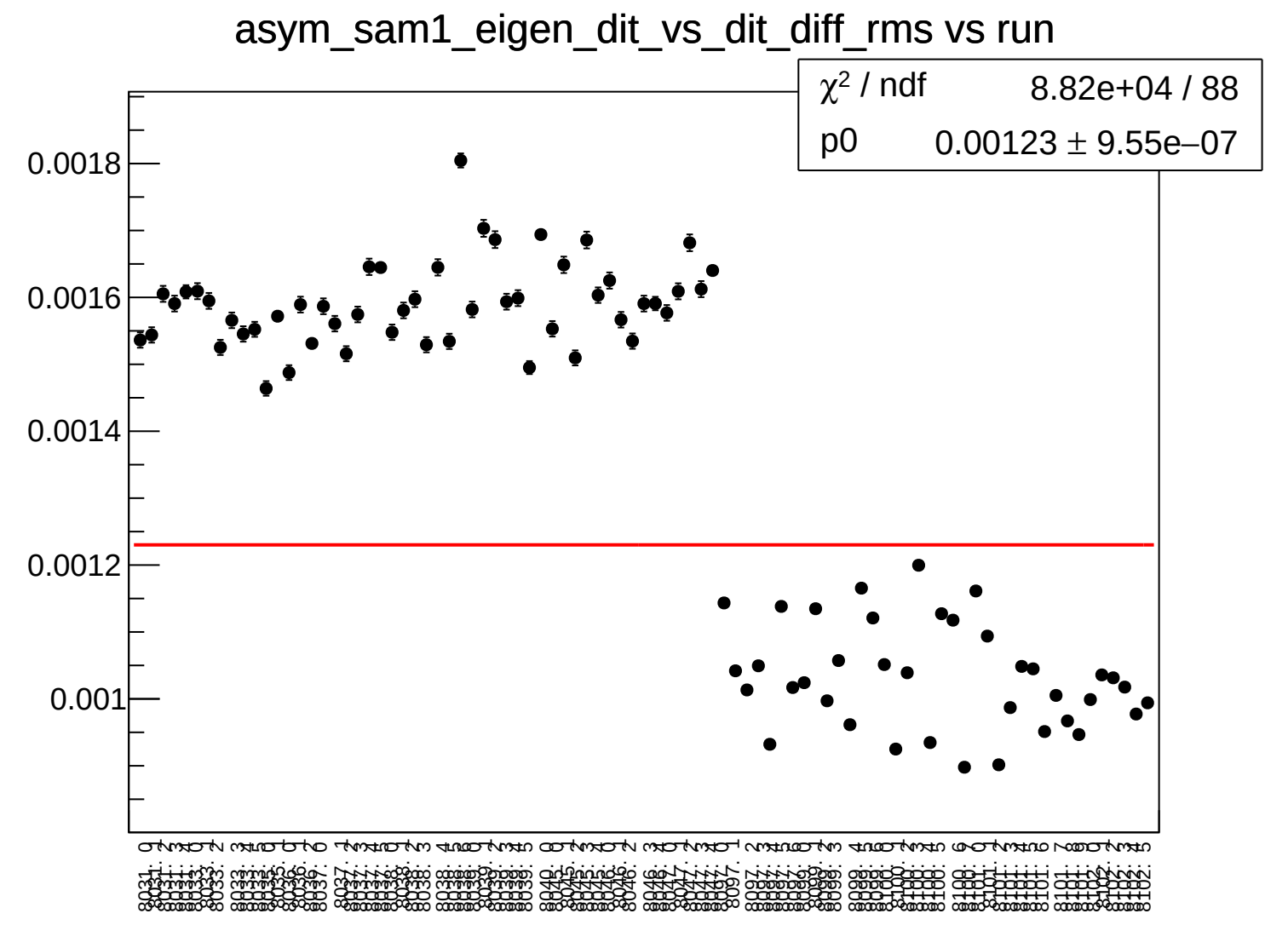

asym_sam1_dit_vs_cor_diff_rms vs run
χ² / ndf 3.174e+05 / 88
p0 12.53 ± 0.01048
40
35
30
25
20
15
10
5

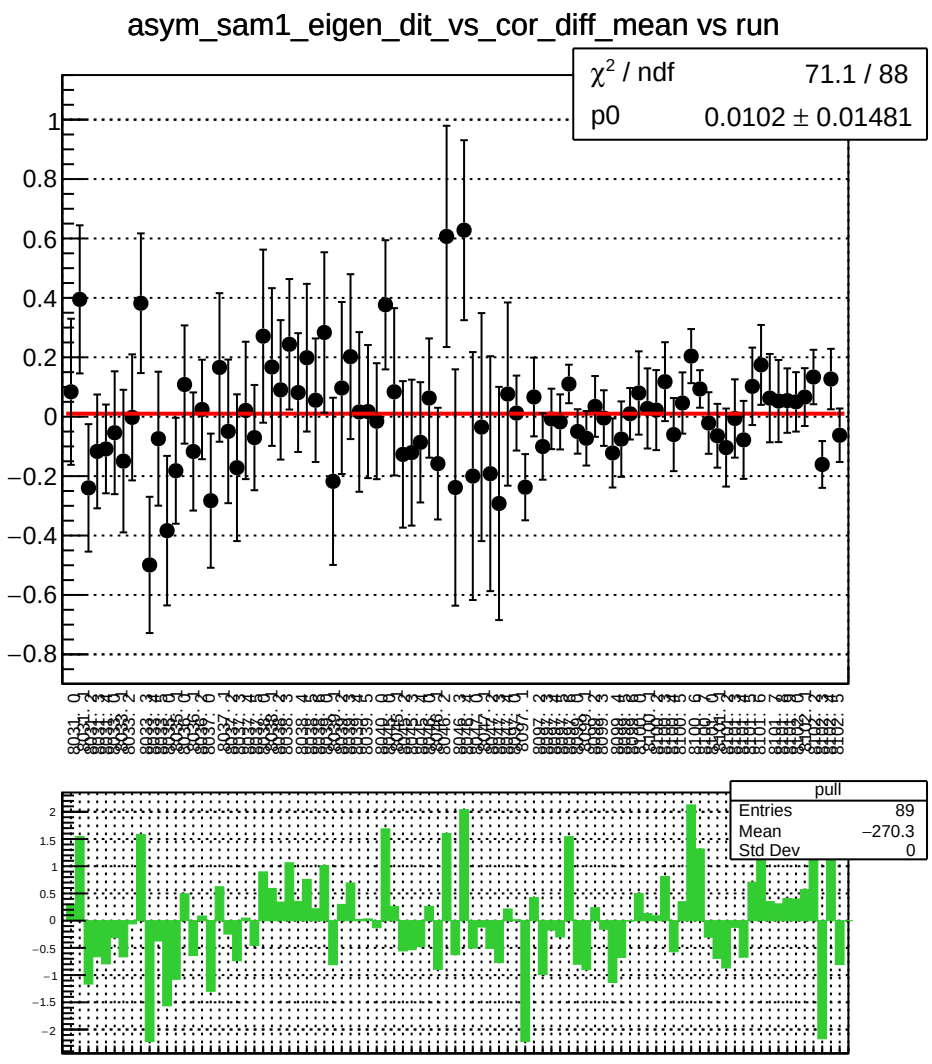

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.1 / 88
p0 0.01019 ± 0.01482
pull
Entries 89
Mean −270.2
Std Dev 0

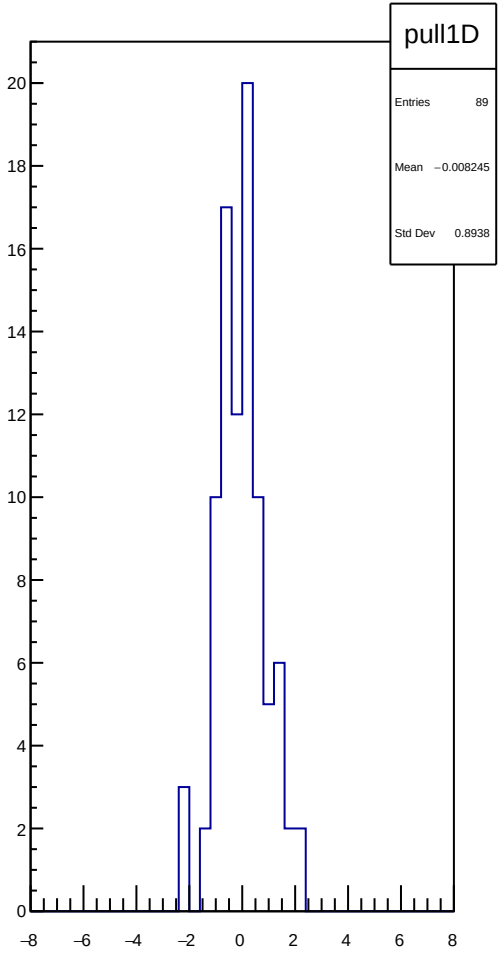

pull1D
Entries 89
Mean −0.008248
Std Dev 0.8938

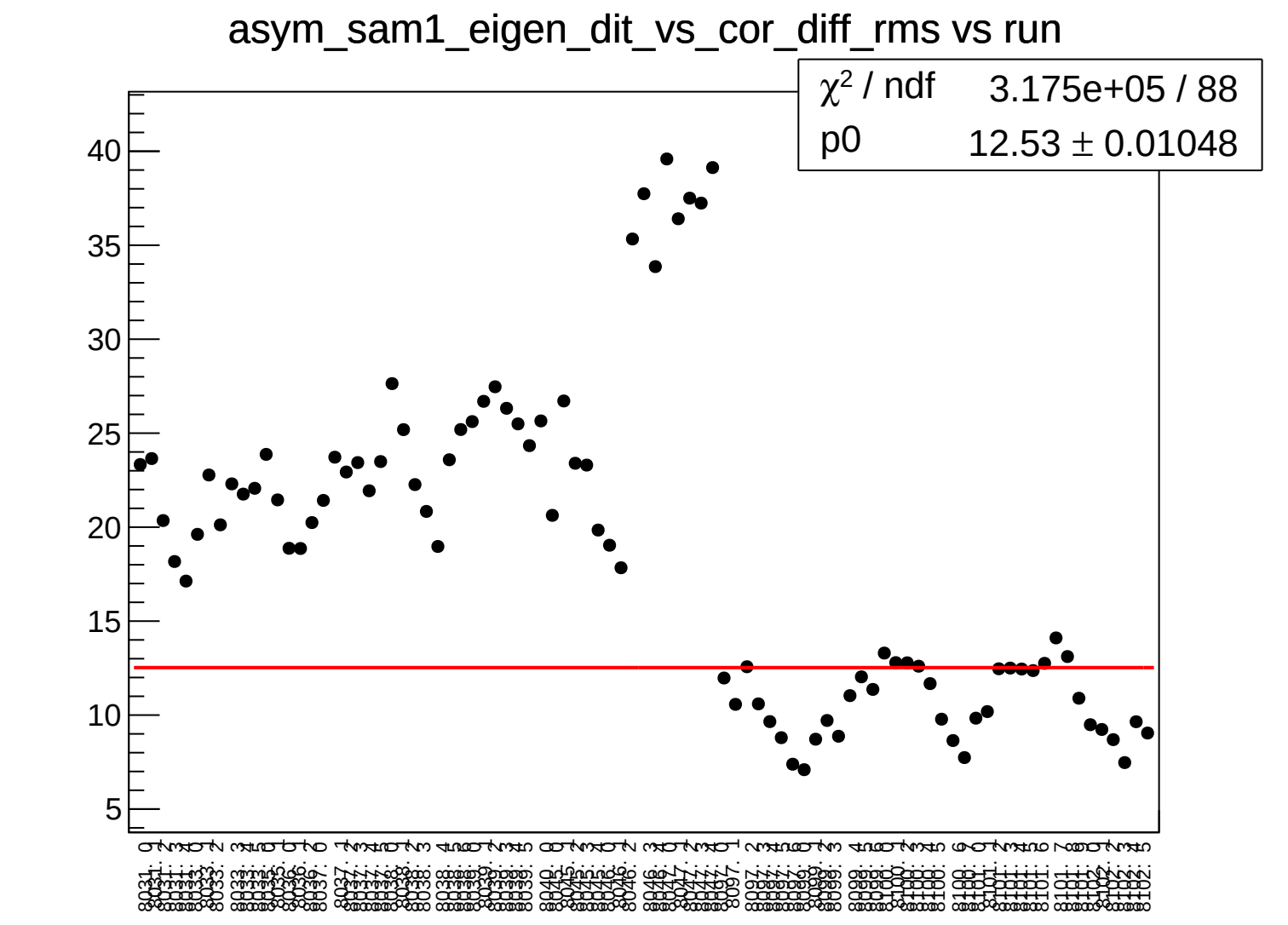

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.174e+05 / 88
p0 12.53 ± 0.01048
40
35
30
25
20
15
10
5

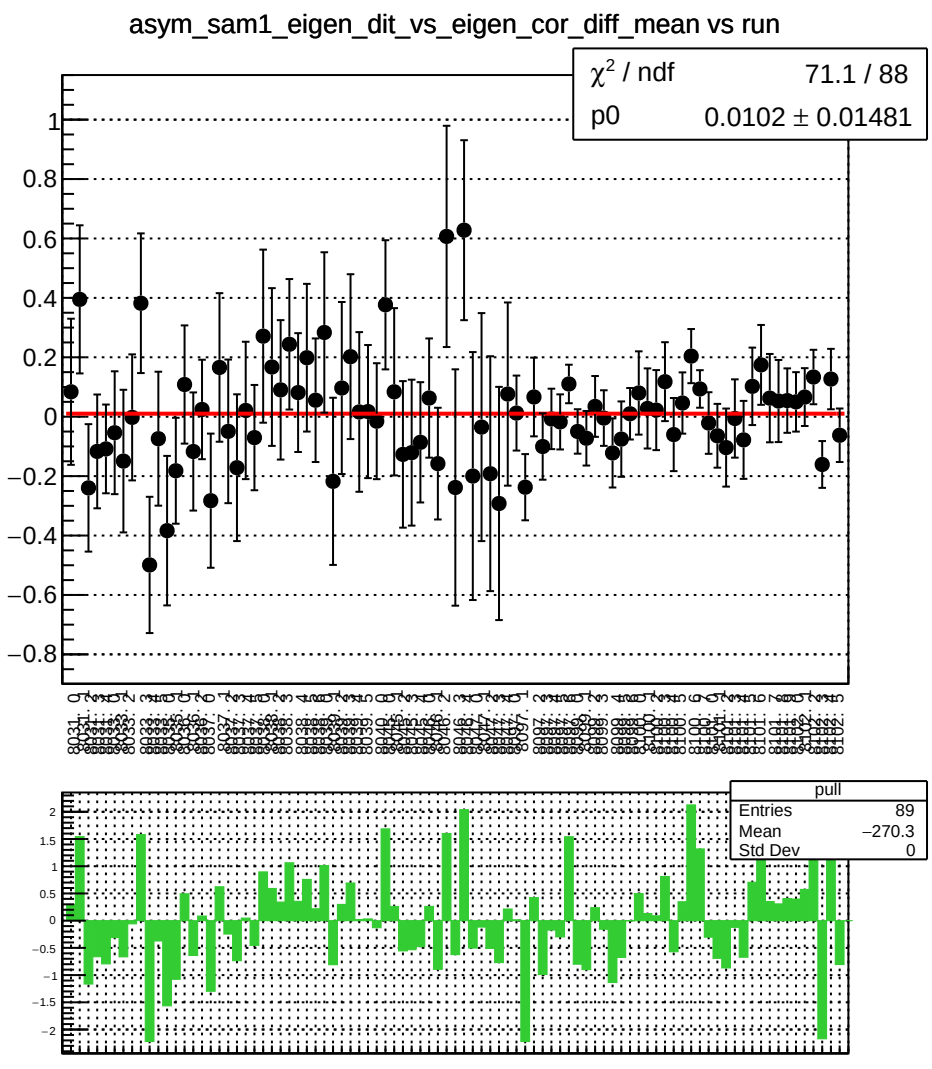

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10−3
χ2 / ndf 96.37 / 88
p0 1.724e−06 ± 1.351e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 89
Mean −57.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.01576
Std Dev 1.04
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

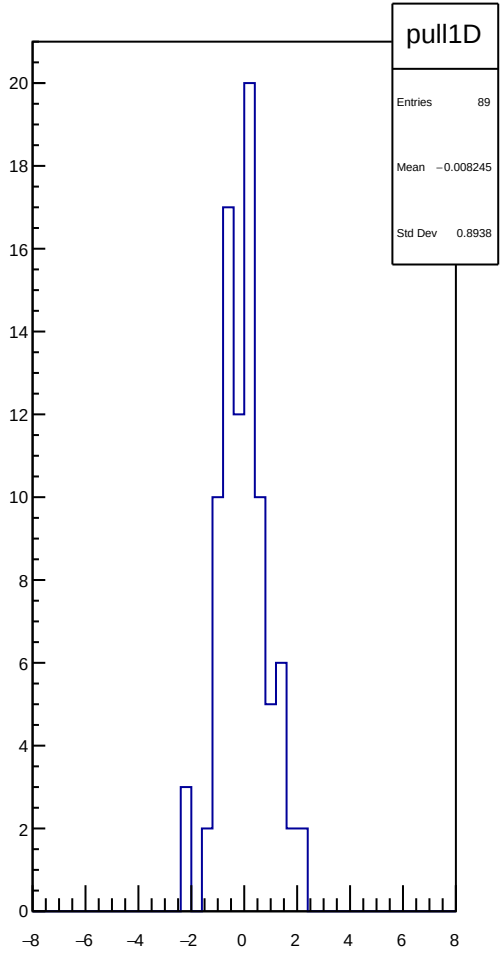

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.82e+04 / 88
p0 0.00123 ± 9.55e−07
0.0018
0.0016
0.0014
0.0012
0.001

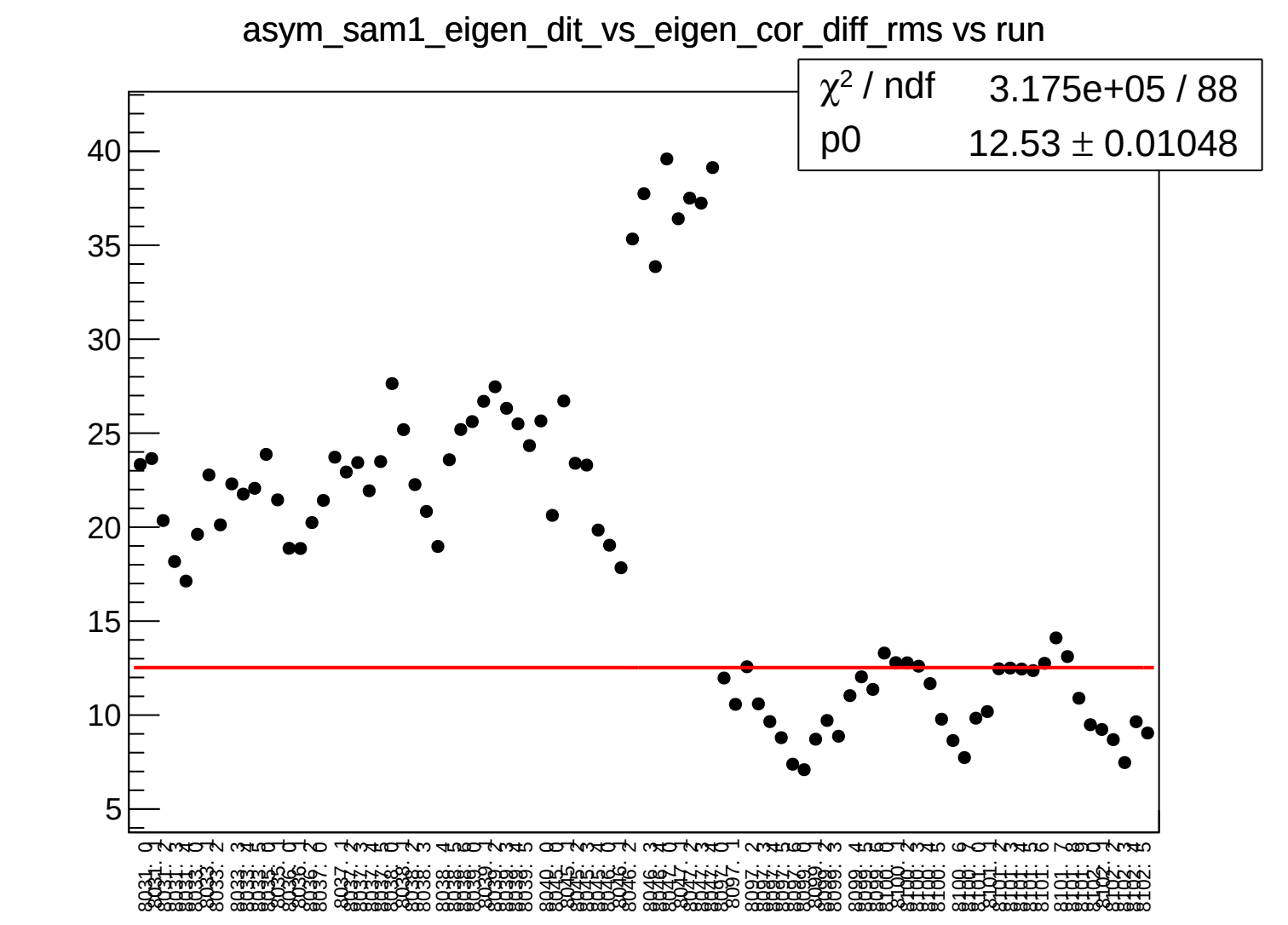

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.1 / 88
p0 0.0102 ± 0.01481
pull
Entries 89
Mean −270.3
Std Dev 0

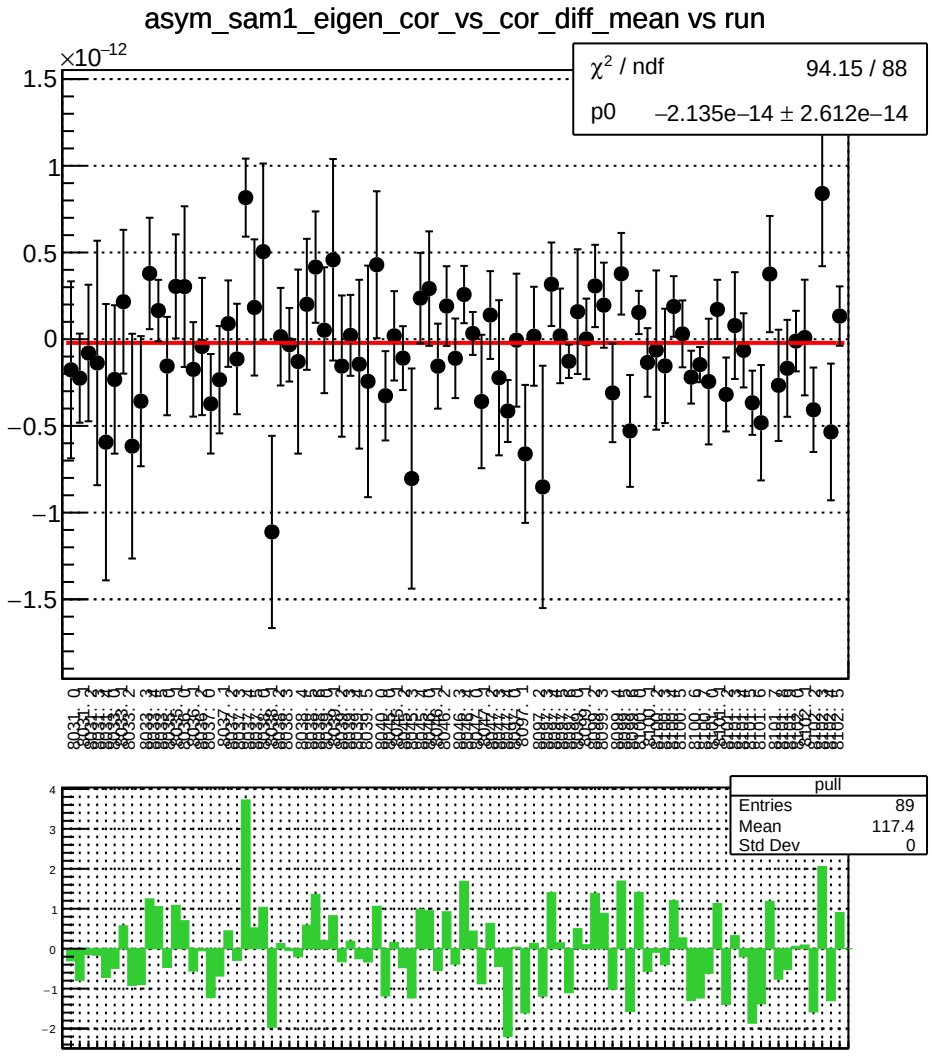

pull1D
Entries 89
Mean −0.008245
Std Dev 0.8938

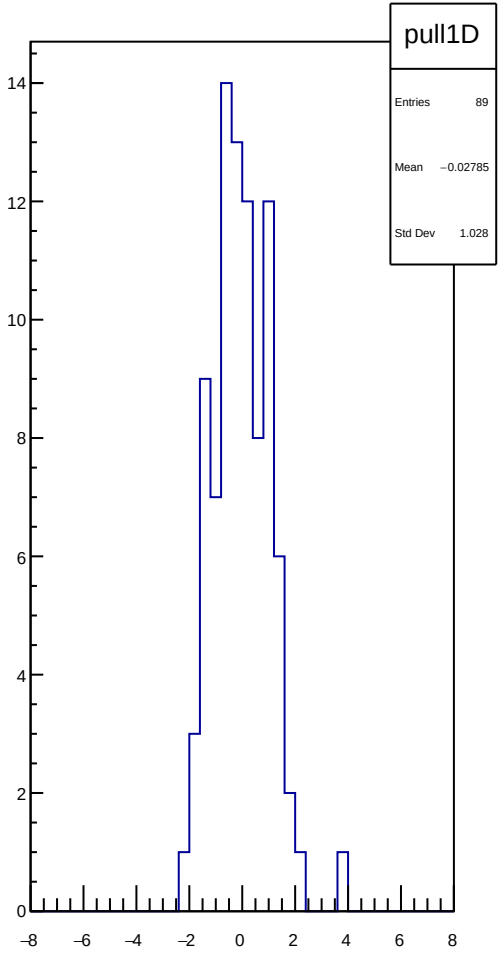

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.175e+05 / 88
p0 12.53 ± 0.01048
40
35
30
25
20
15
10
5

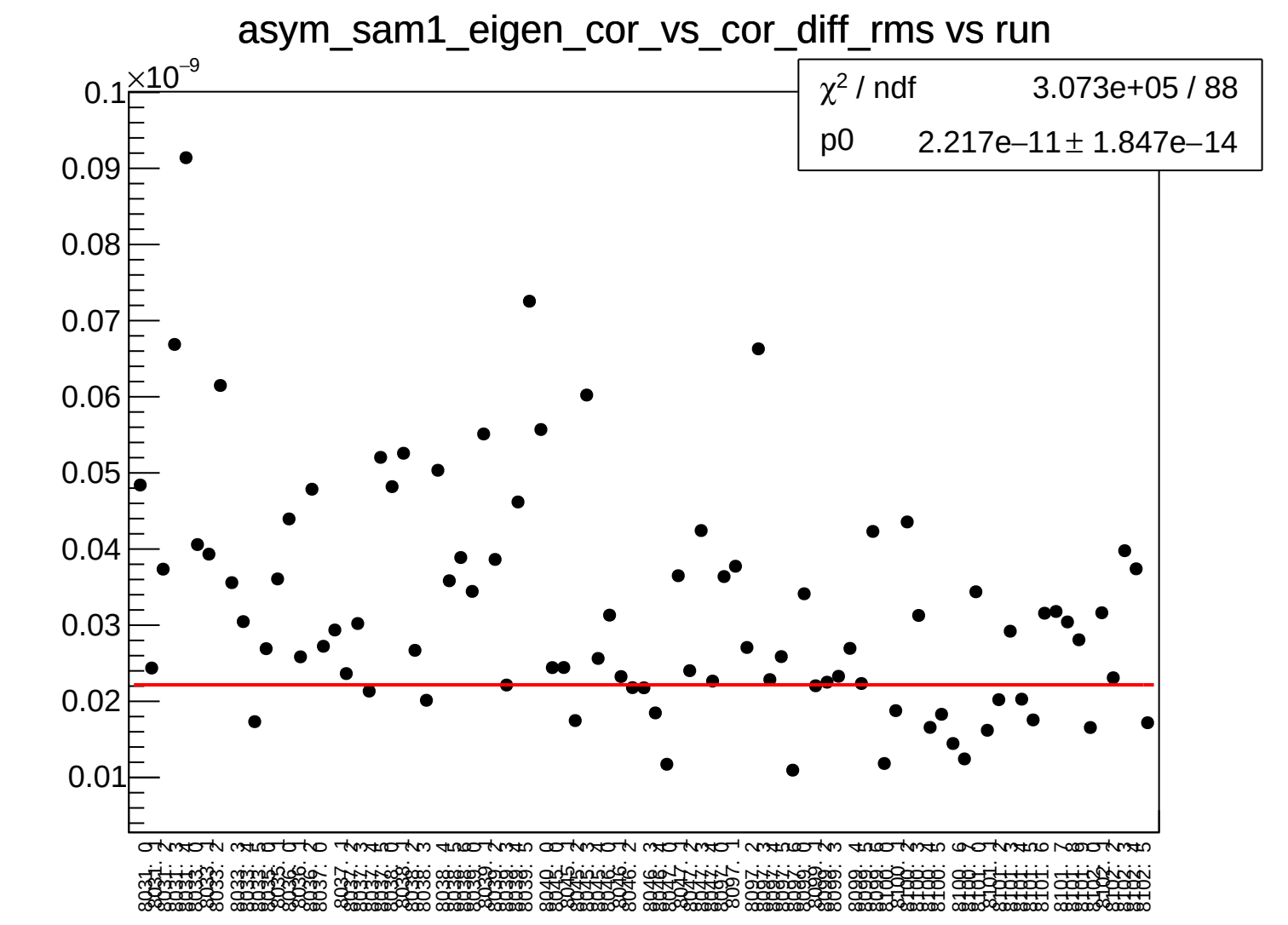

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.1 / 88
p0 0.0102 ± 0.01481
pull
Entries 89
Mean −270.3
Std Dev 0

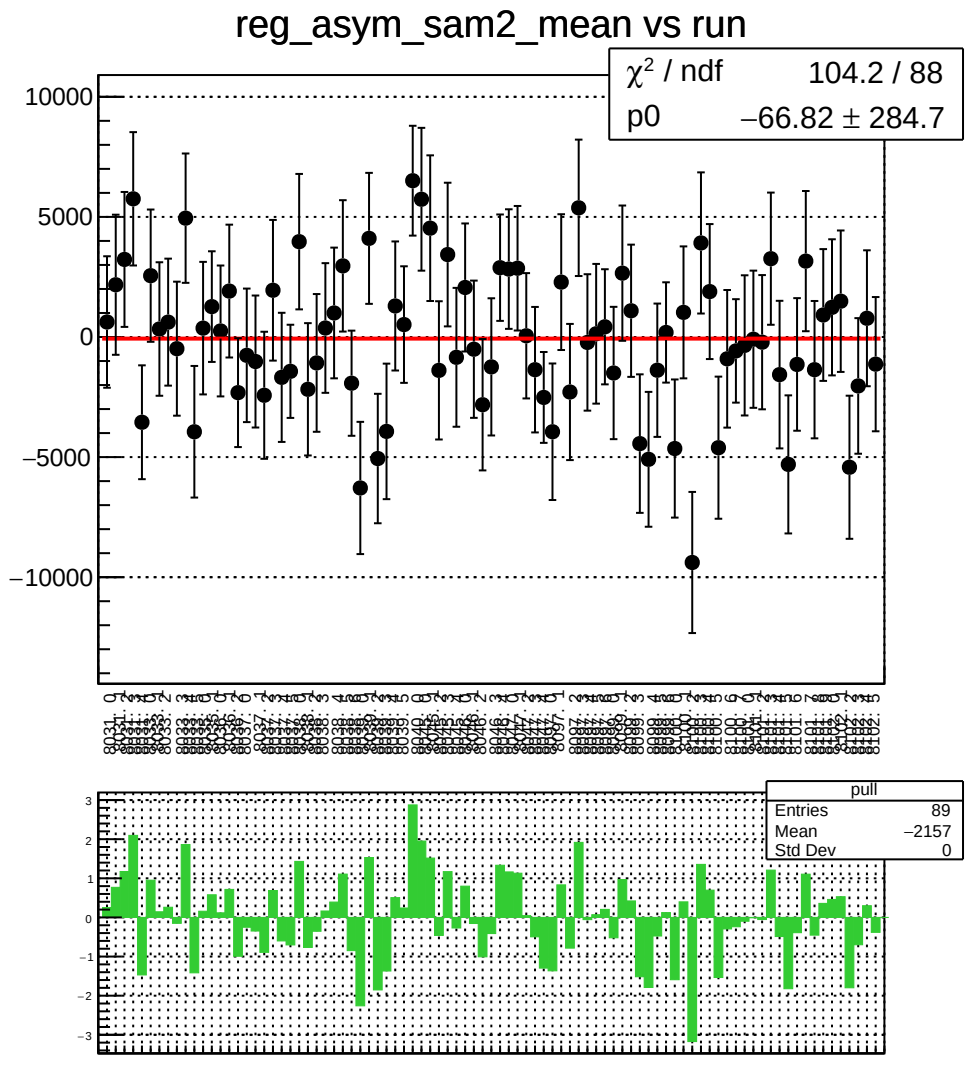

pull1D
Entries 89
Mean −0.008245
Std Dev 0.8938

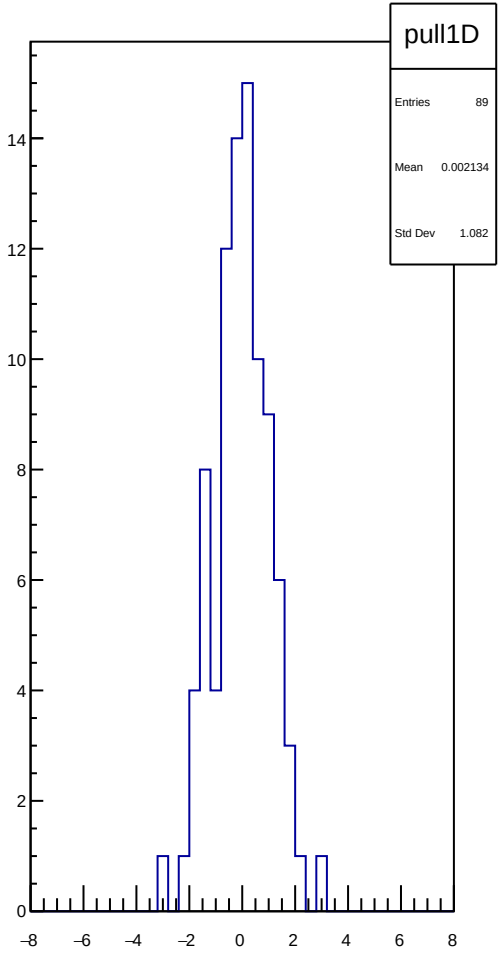

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.175e+05 / 88
p0 12.53 ± 0.01048
40
35
30
25
20
15
10
5

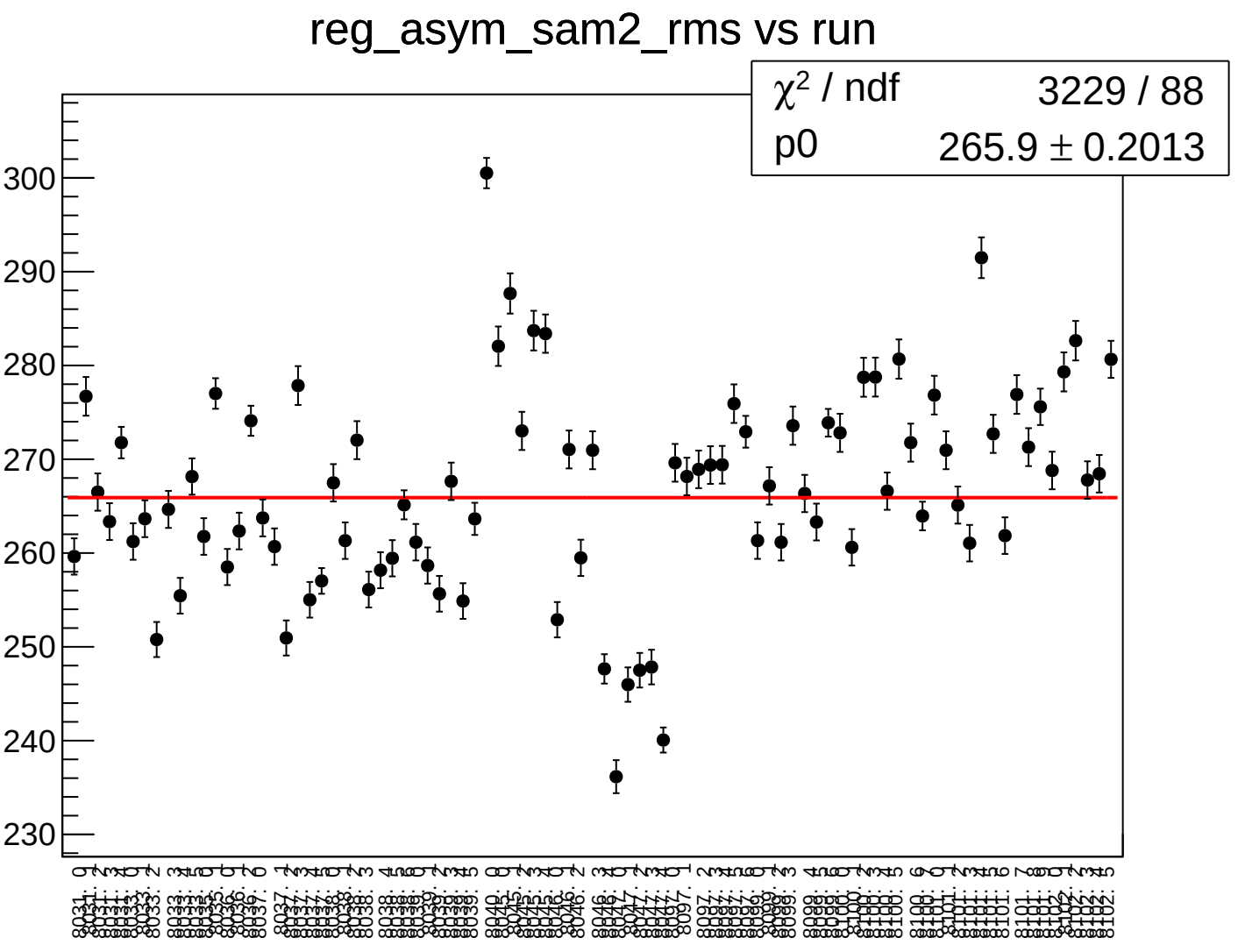

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.15 / 88
p0 −2.135e−14 ± 2.612e−14
1.5
1
0.5
0
−0.5
−1
−1.5
pull
Entries 89
Mean 117.4
Std Dev 0
4
3
2
1
0
−1
−2

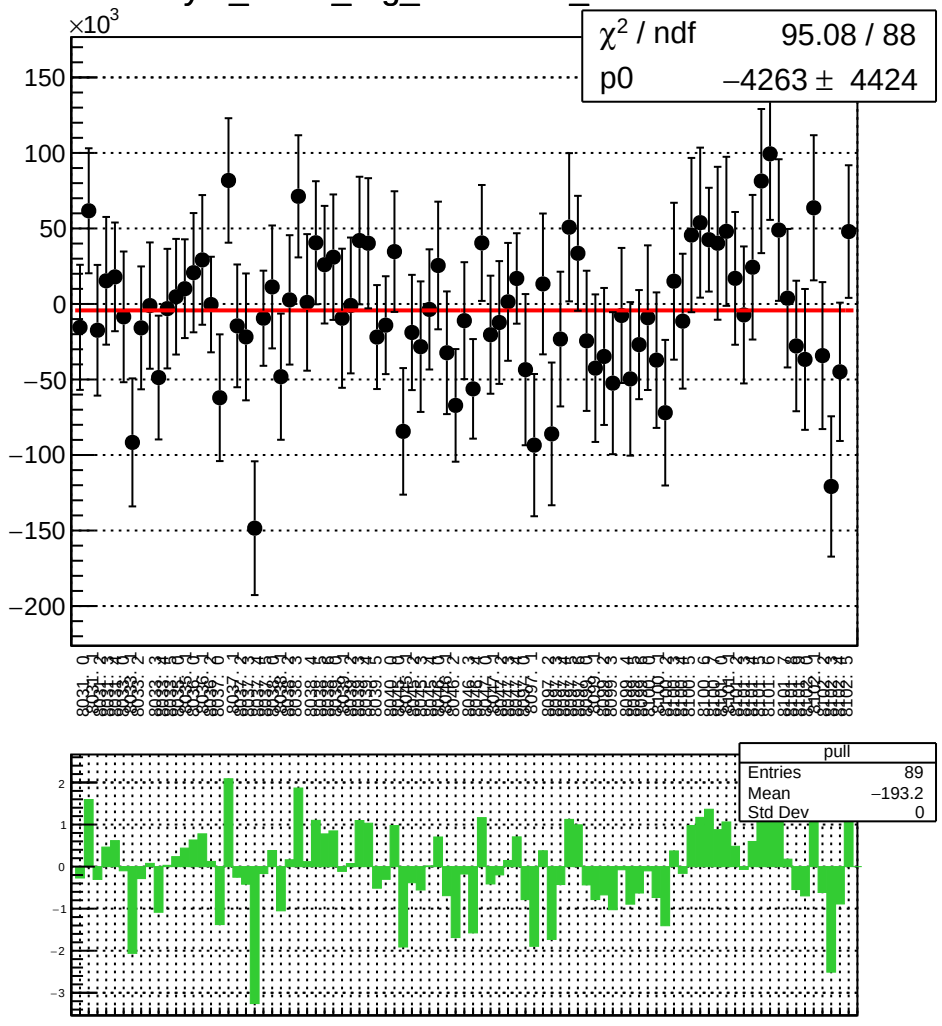

pull1D
Entries 89
Mean −0.02785
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

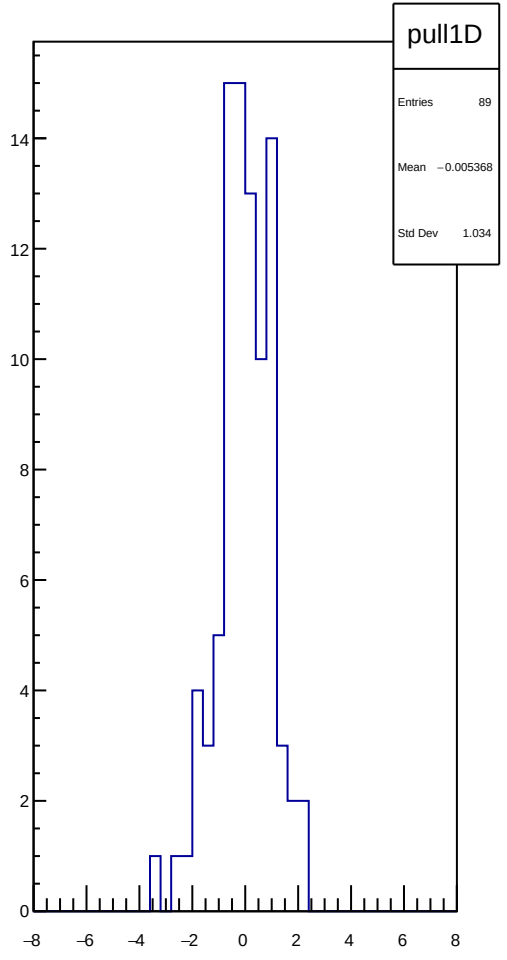

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
χ² / ndf 3.073e+05 / 88
p0 2.217e−11 ± 1.847e−14

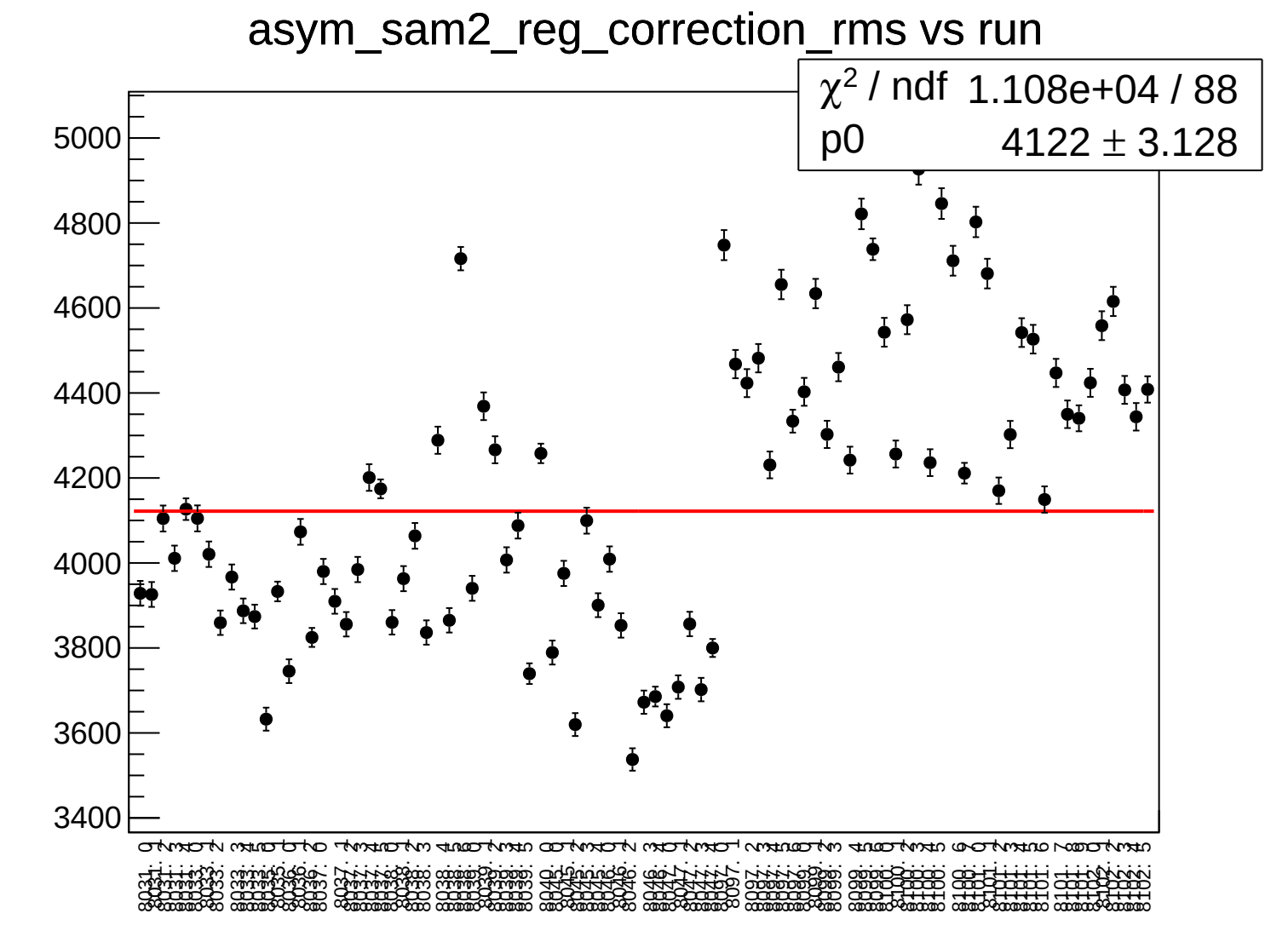

reg_asym_sam2_mean vs run
χ² / ndf 104.2 / 88
p0 −66.82 ± 284.7
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −2157
Std Dev 0
3
2
1
0
−1
−2
−3

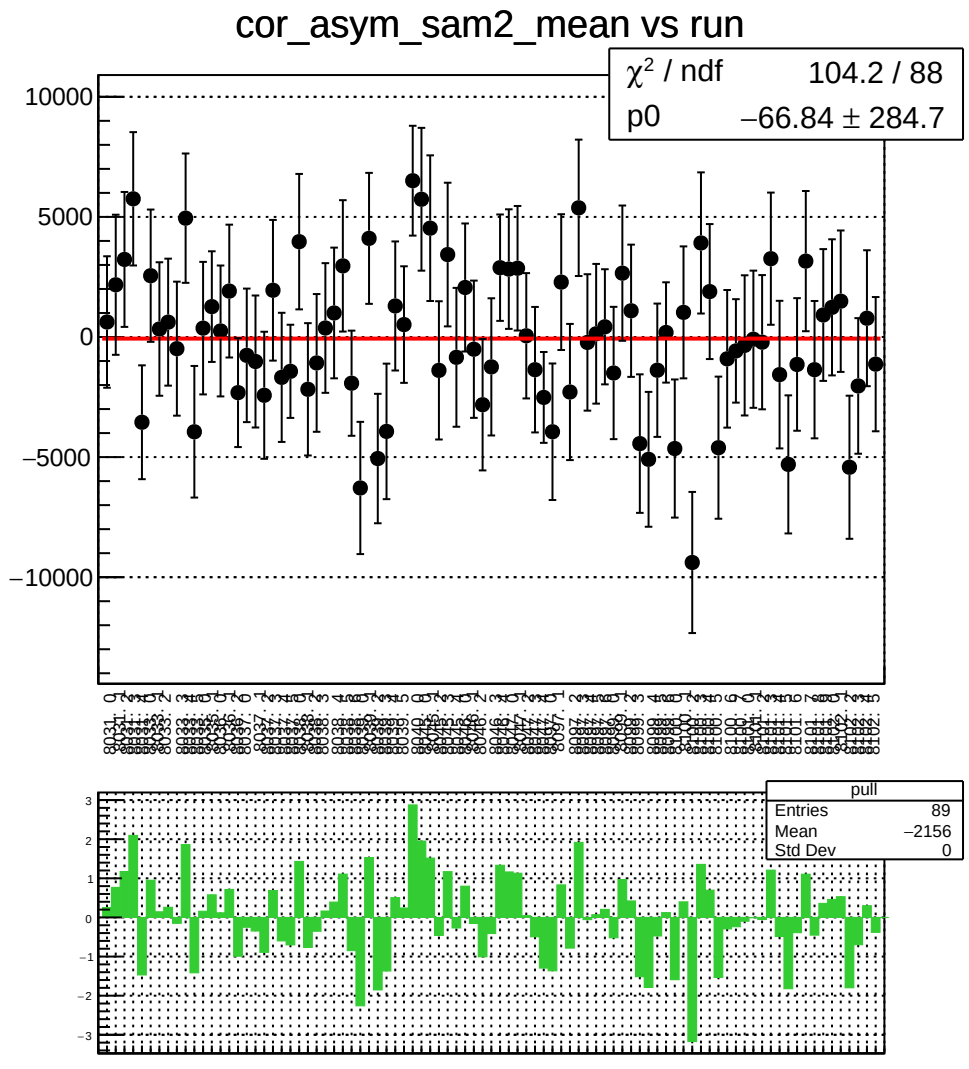

pull1D
Entries 89
Mean 0.002134
Std Dev 1.082
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

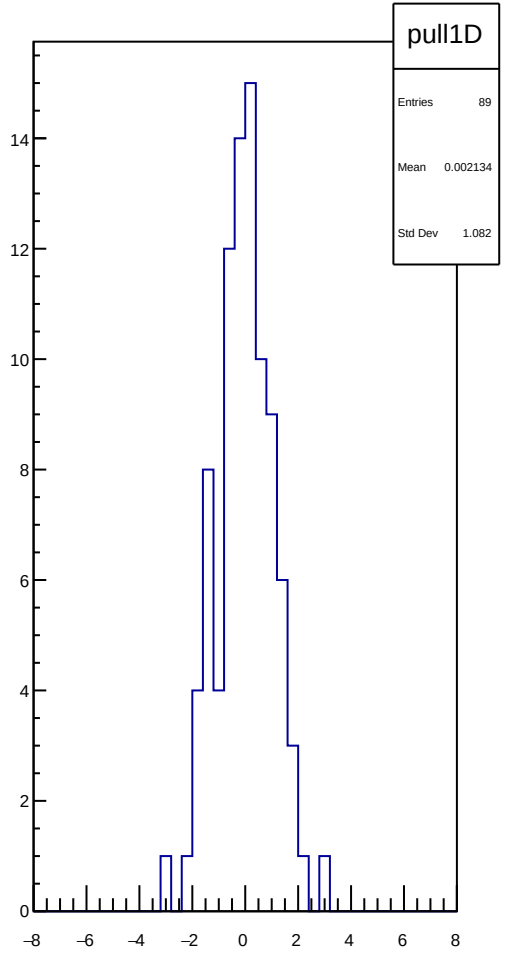

reg_asym_sam2_rms vs run
χ² / ndf 3229 / 88
p0 265.9 ± 0.2013
300
290
280
270
260
250
240
230

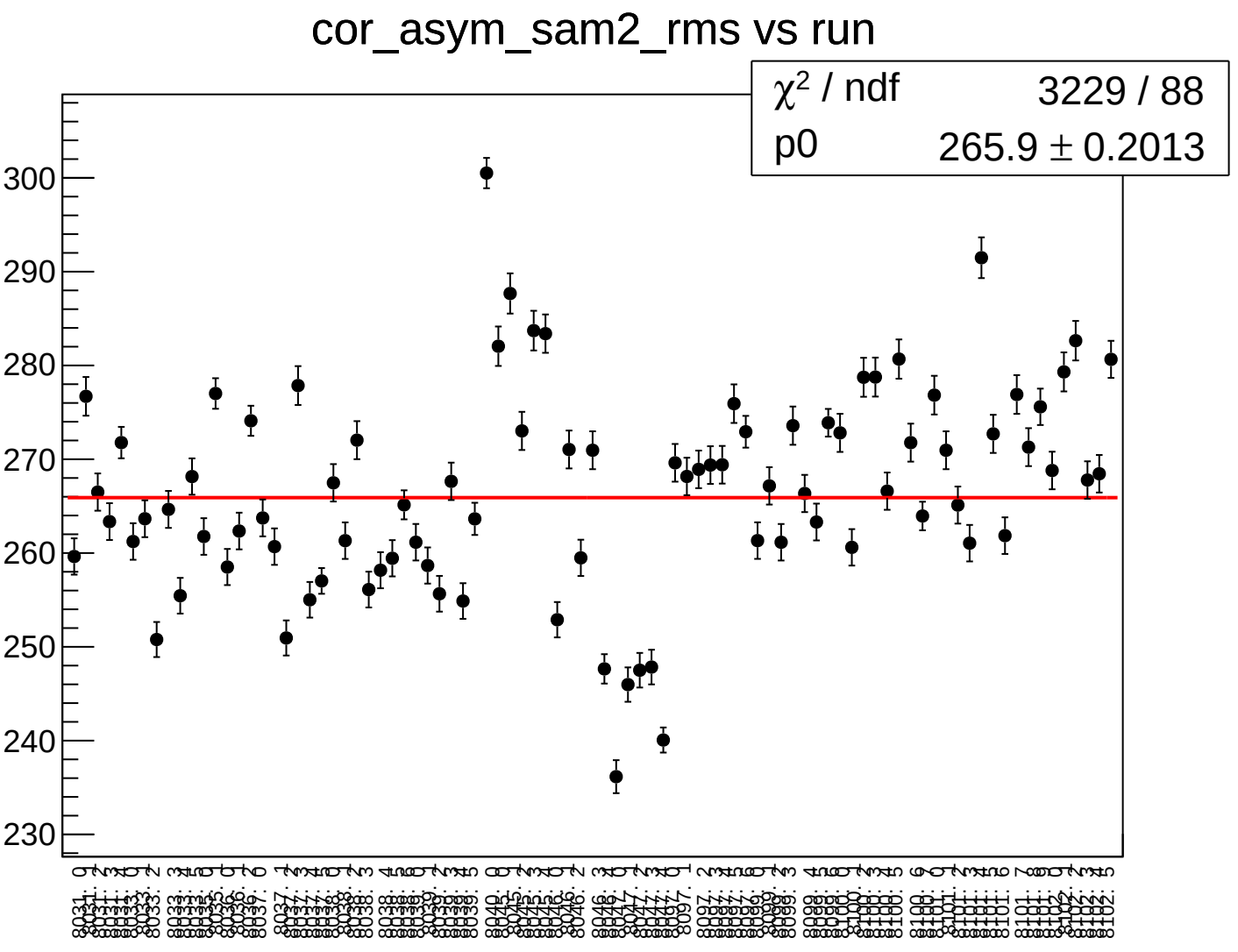

asym_sam2_reg_correction_mean vs run
×10^3
χ² / ndf 95.08 / 88
p0 −4263 ± 4424
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean −193.2
Std Dev 0
2
1
0
−1
−2
−3

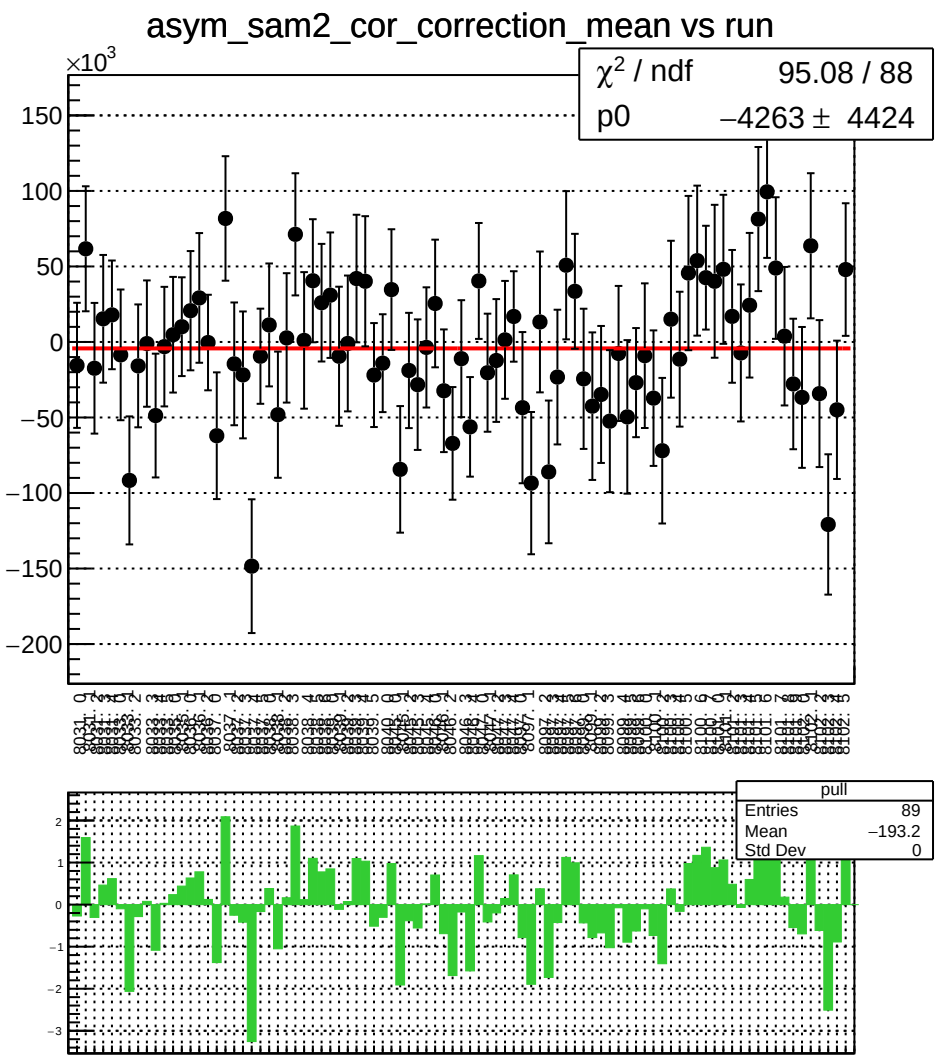

pull1D
Entries 89
Mean −0.005368
Std Dev 1.034
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

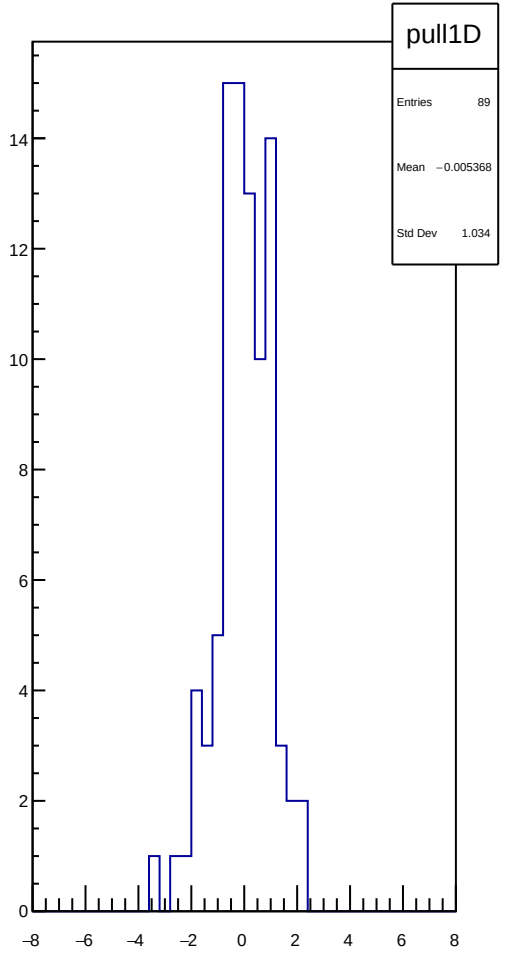

asym_sam2_reg_correction_rms vs run
χ² / ndf 1.108e+04 / 88
p0 4122 ± 3.128
5000
4800
4600
4400
4200
4000
3800
3600
3400

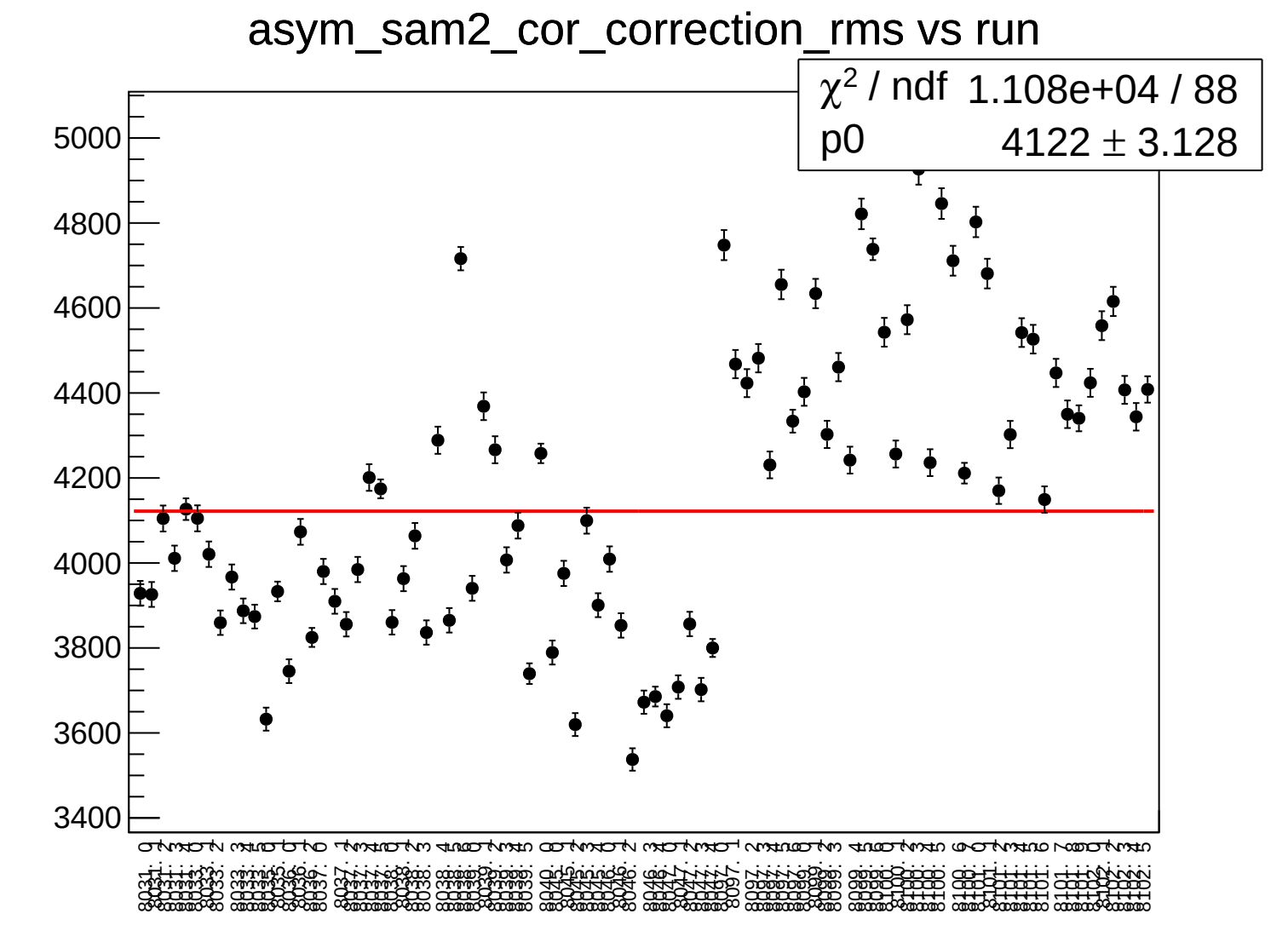

cor_asym_sam2_mean vs run
χ² / ndf 104.2 / 88
p0 −66.84 ± 284.7
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −2156
Std Dev 0
3
2
1
0
−1
−2
−3

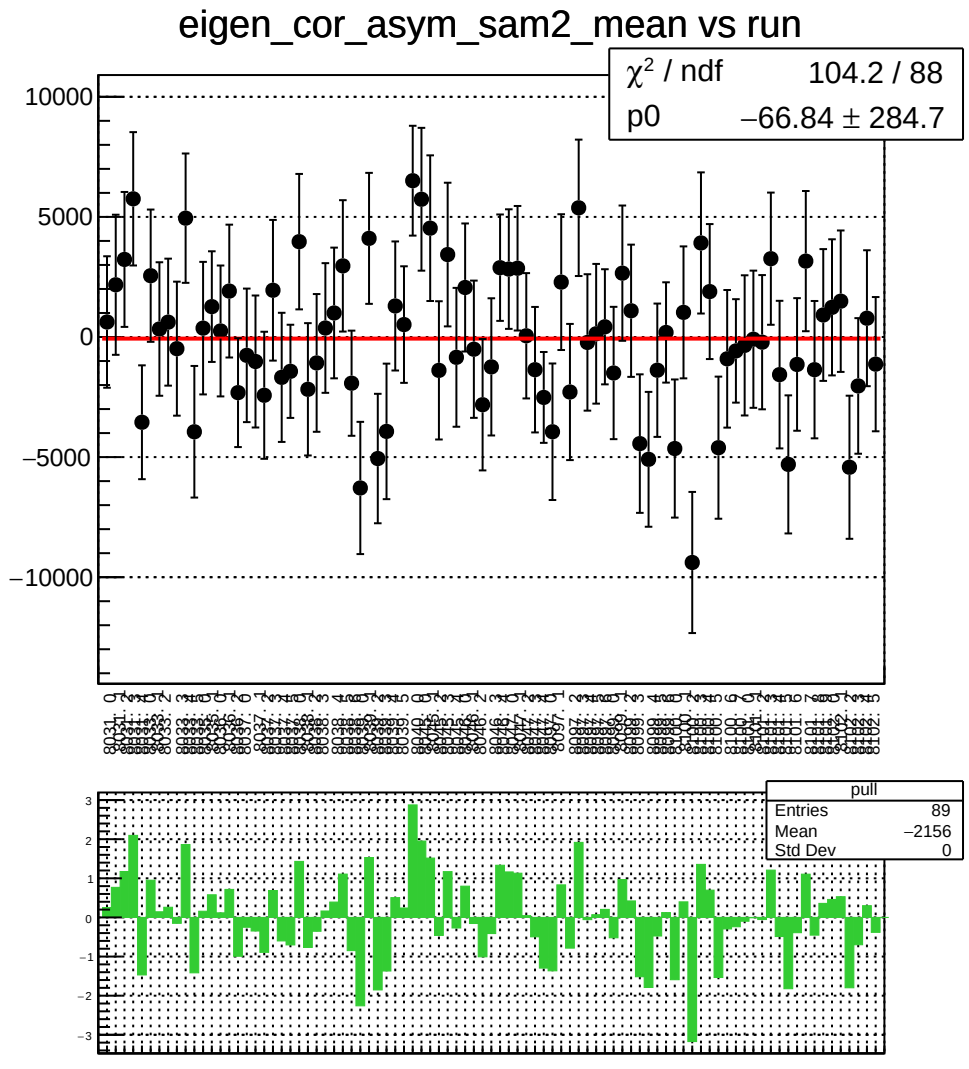

pull1D
Entries 89
Mean 0.002134
Std Dev 1.082
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

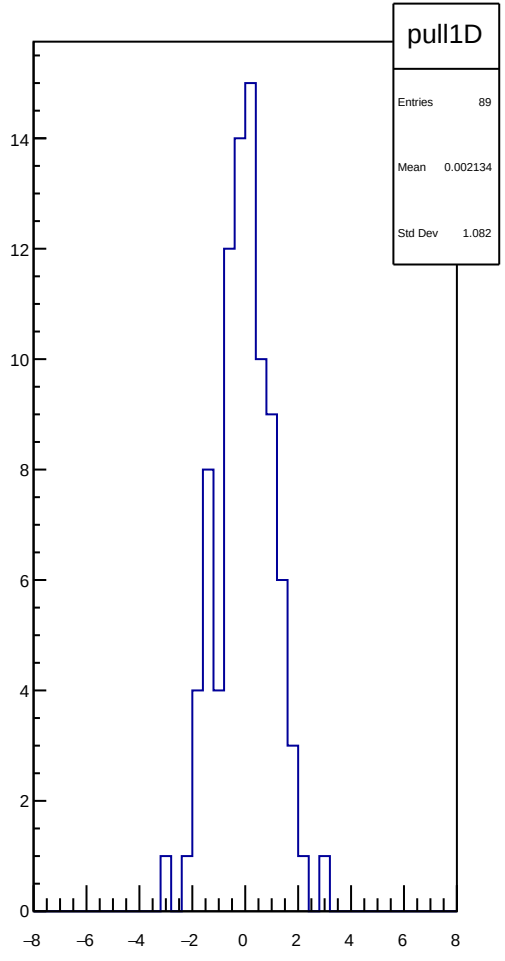

cor_asym_sam2_rms vs run
χ² / ndf 3229 / 88
p0 265.9 ± 0.2013
300
290
280
270
260
250
240
230

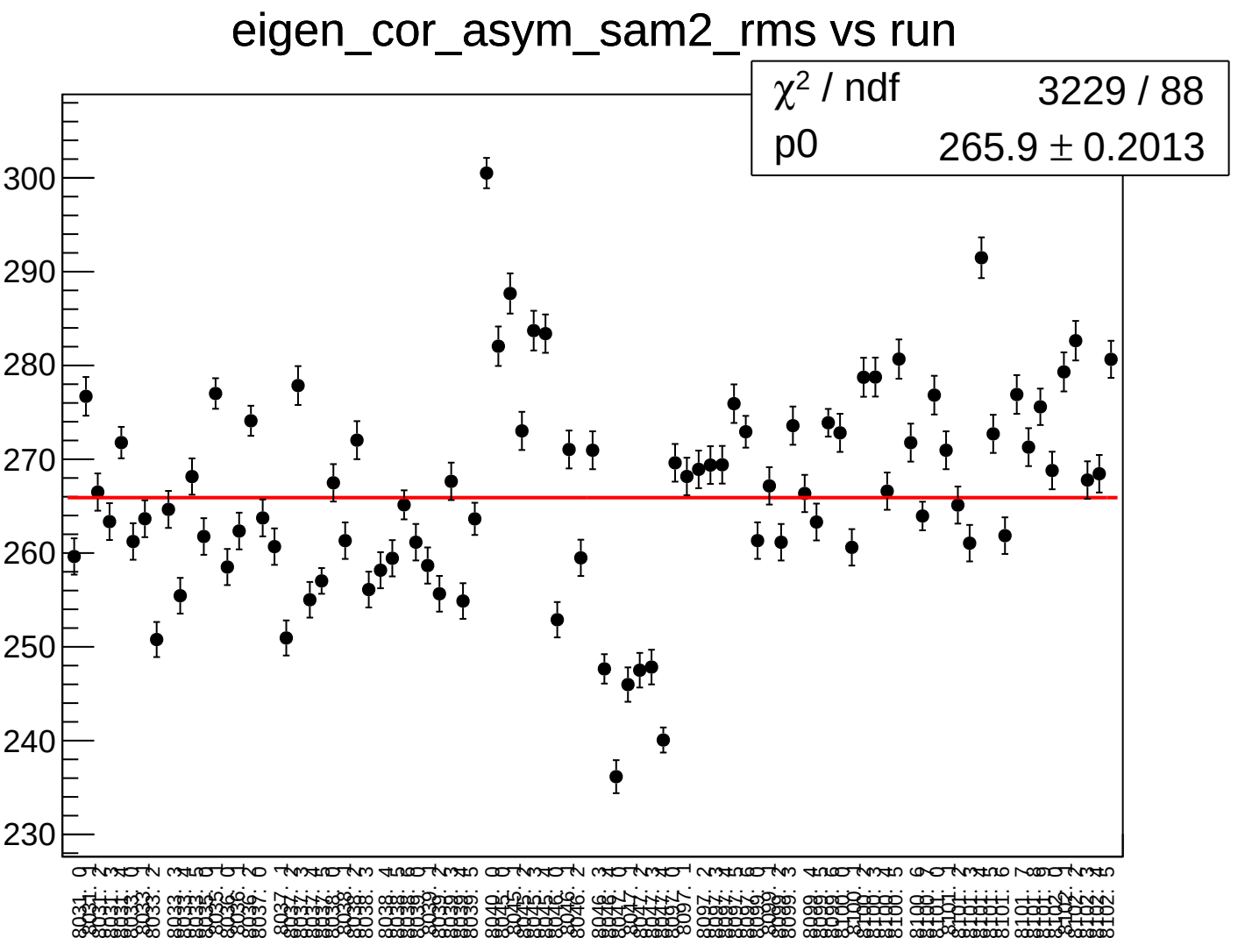

asym_sam2_cor_correction_mean vs run
×10^3
χ² / ndf 95.08 / 88
p0 −4263 ± 4424
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean −193.2
Std Dev 0
2
1
0
−1
−2
−3

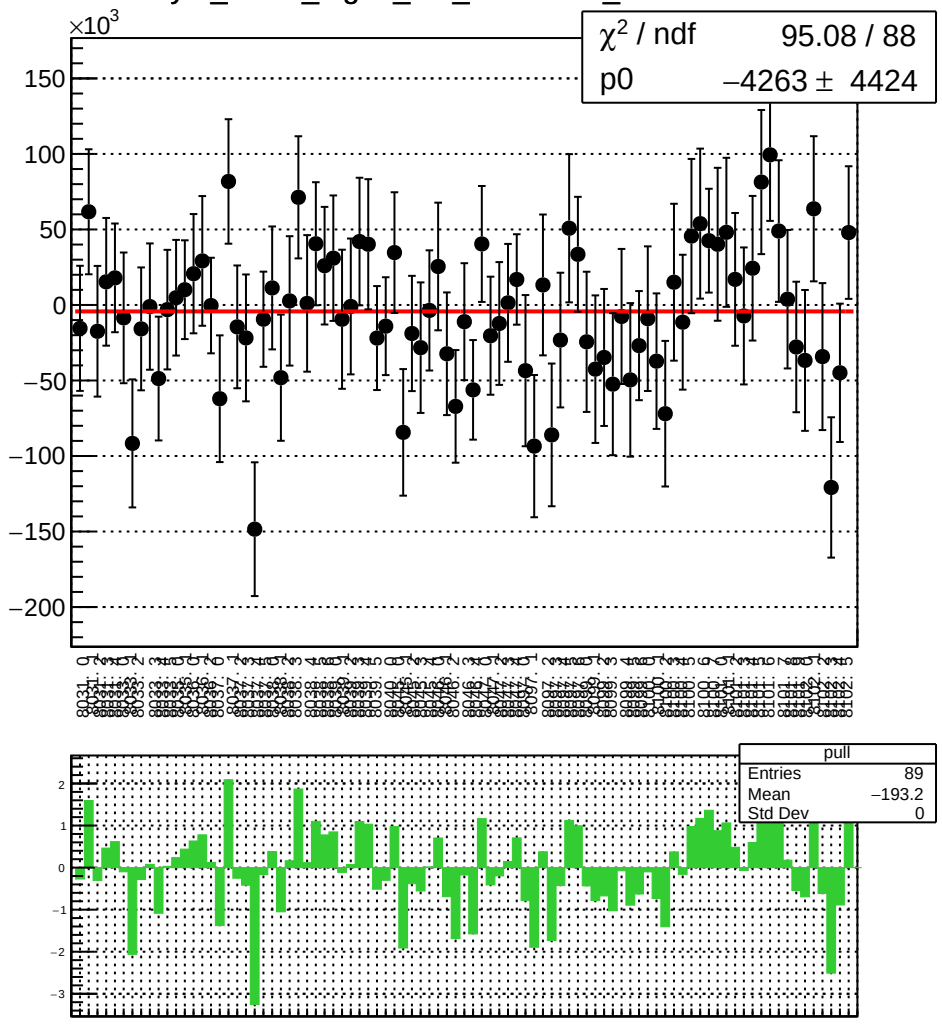

pull1D
Entries 89
Mean −0.005368
Std Dev 1.034
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

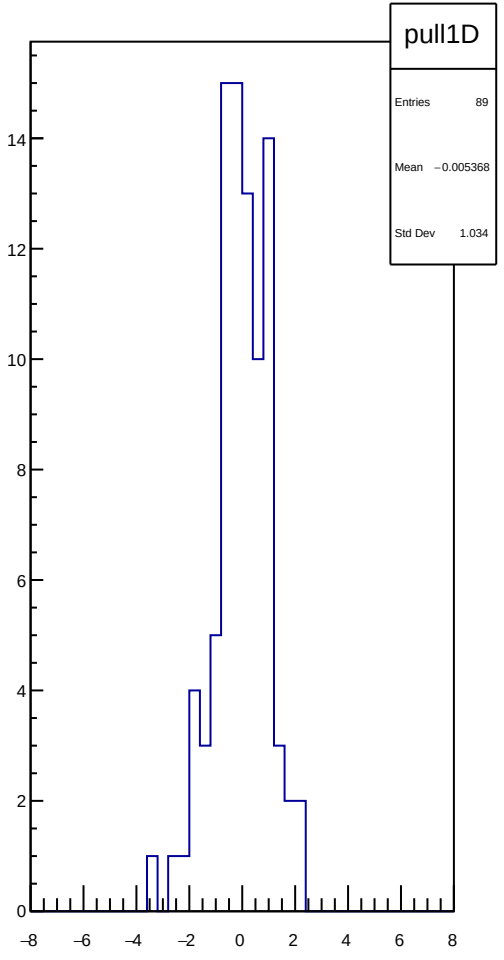

asym_sam2_cor_correction_rms vs run
χ² / ndf 1.108e+04 / 88
p0 4122 ± 3.128
5000
4800
4600
4400
4200
4000
3800
3600
3400

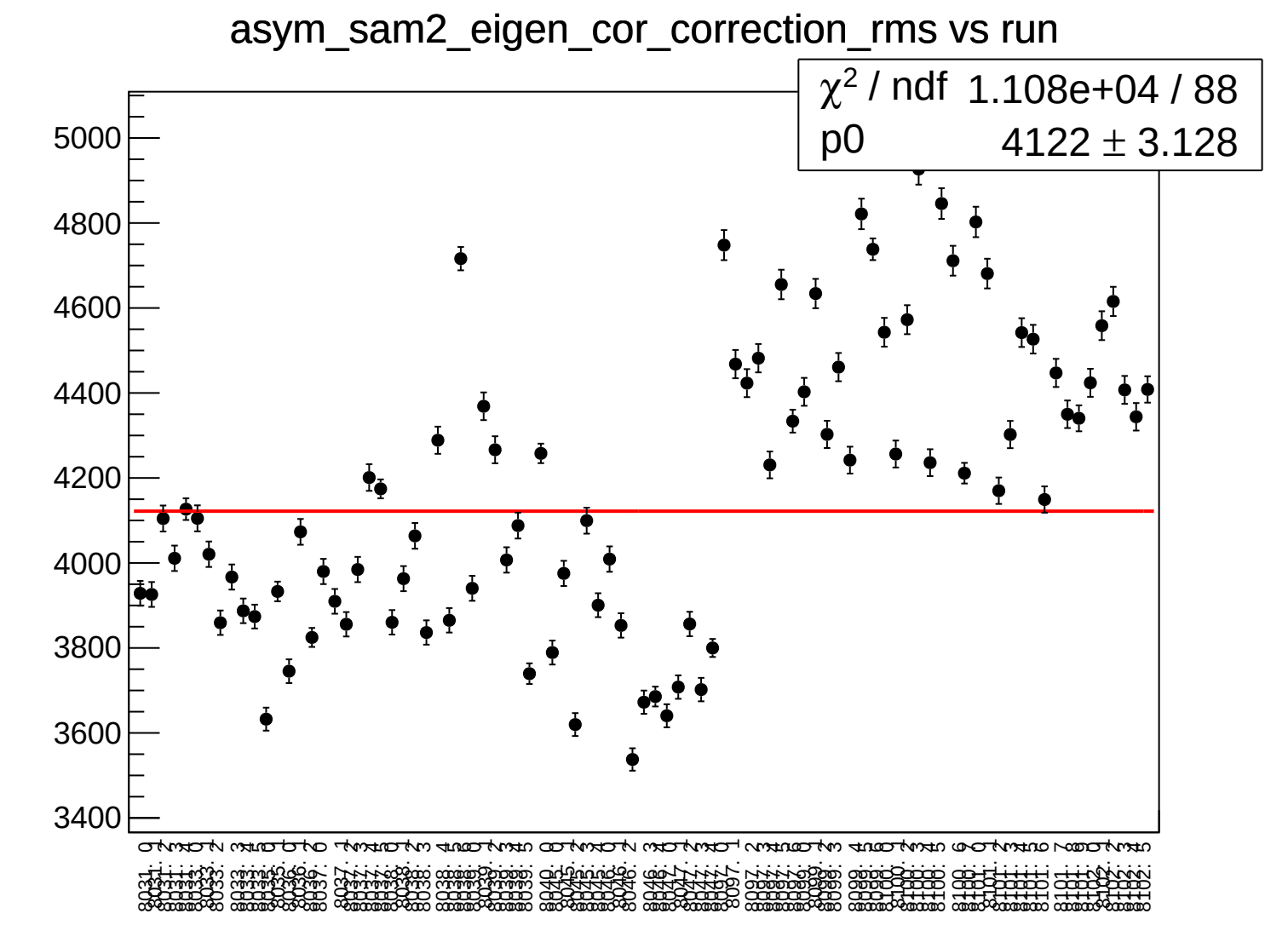

eigen_cor_asym_sam2_mean vs run
χ² / ndf 104.2 / 88
p0 −66.84 ± 284.7
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −2156
Std Dev 0
3
2
1
0
−1
−2
−3

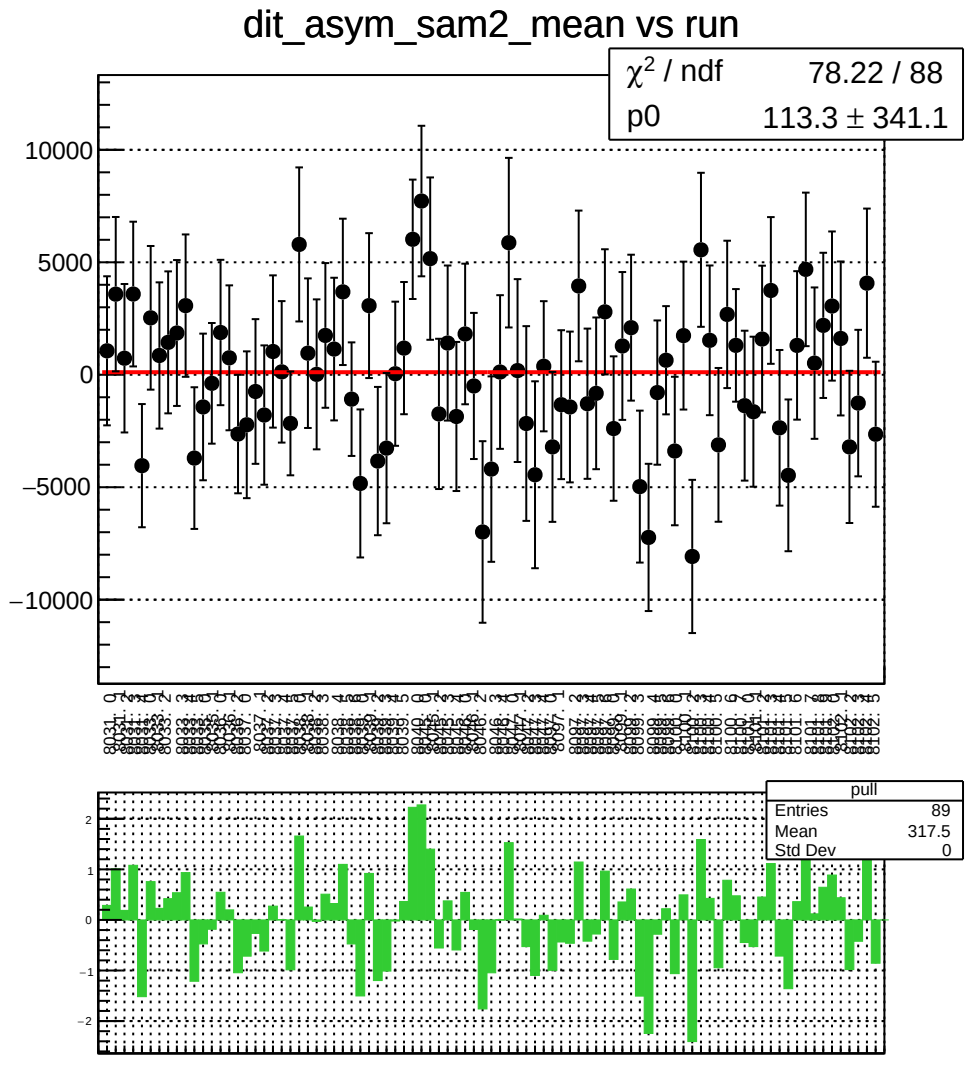

pull1D
Entries 89
Mean 0.002134
Std Dev 1.082
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

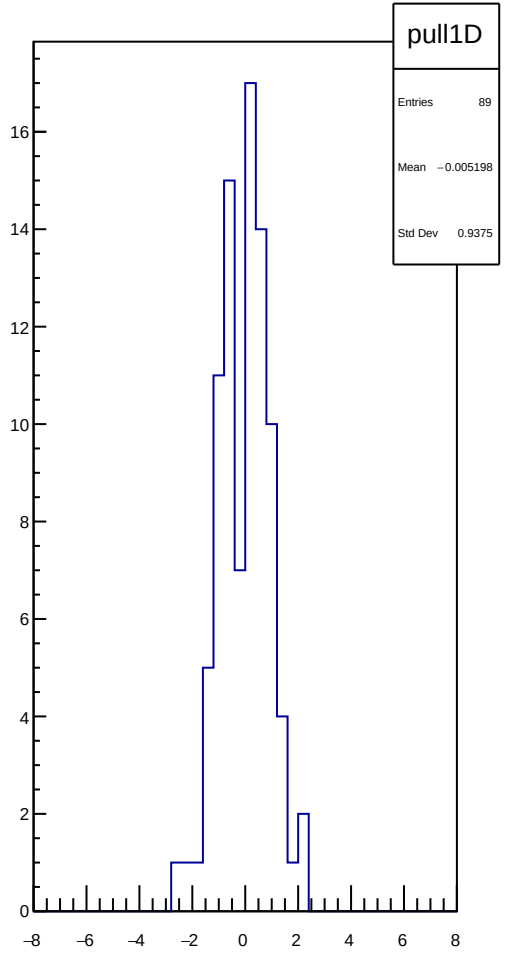

eigen_cor_asym_sam2_rms vs run
χ² / ndf 3229 / 88
p0 265.9 ± 0.2013
300
290
280
270
260
250
240
230

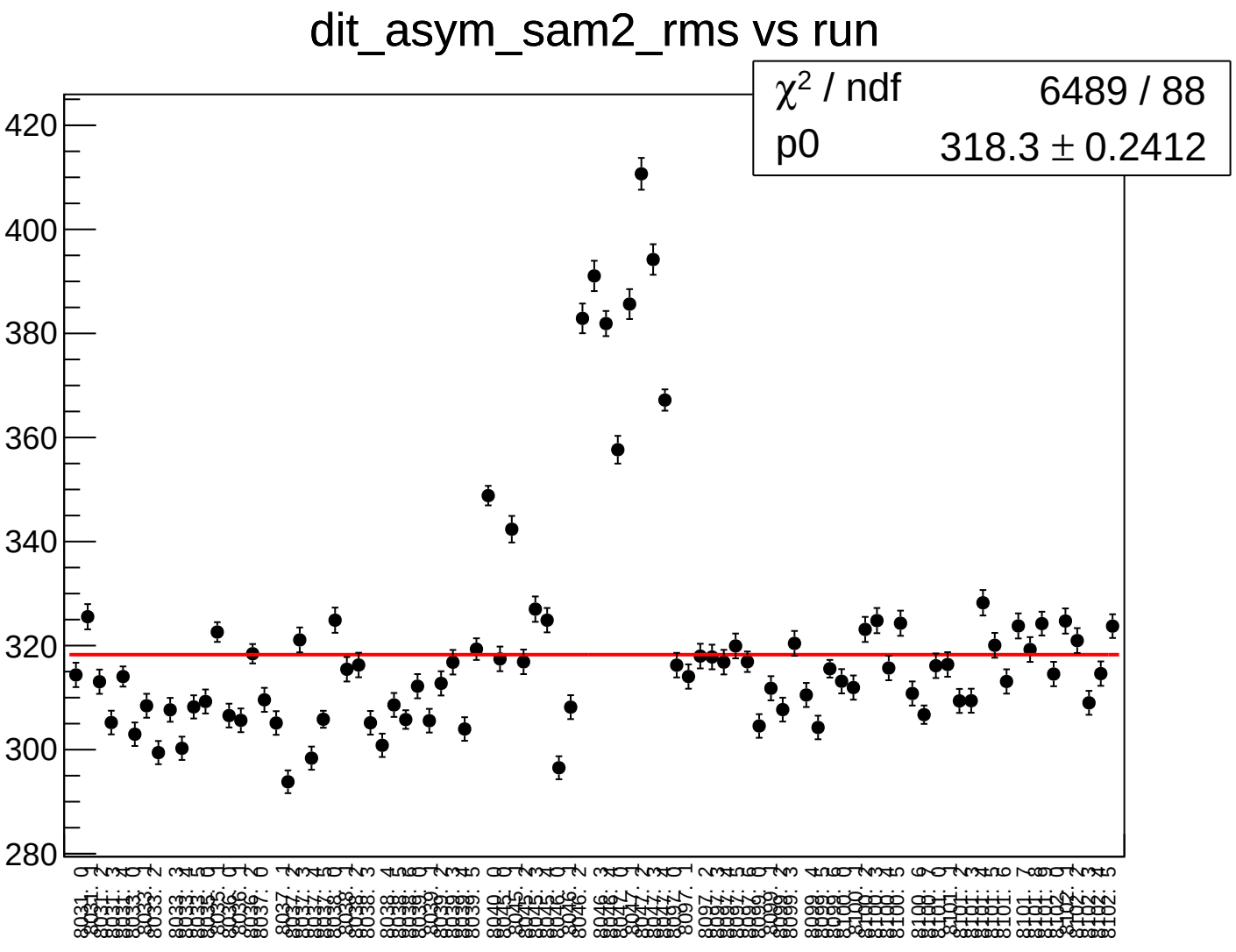

asym_sam2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 95.08 / 88
p0 −4263 ± 4424
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean −193.2
Std Dev 0
2
1
0
−1
−2
−3

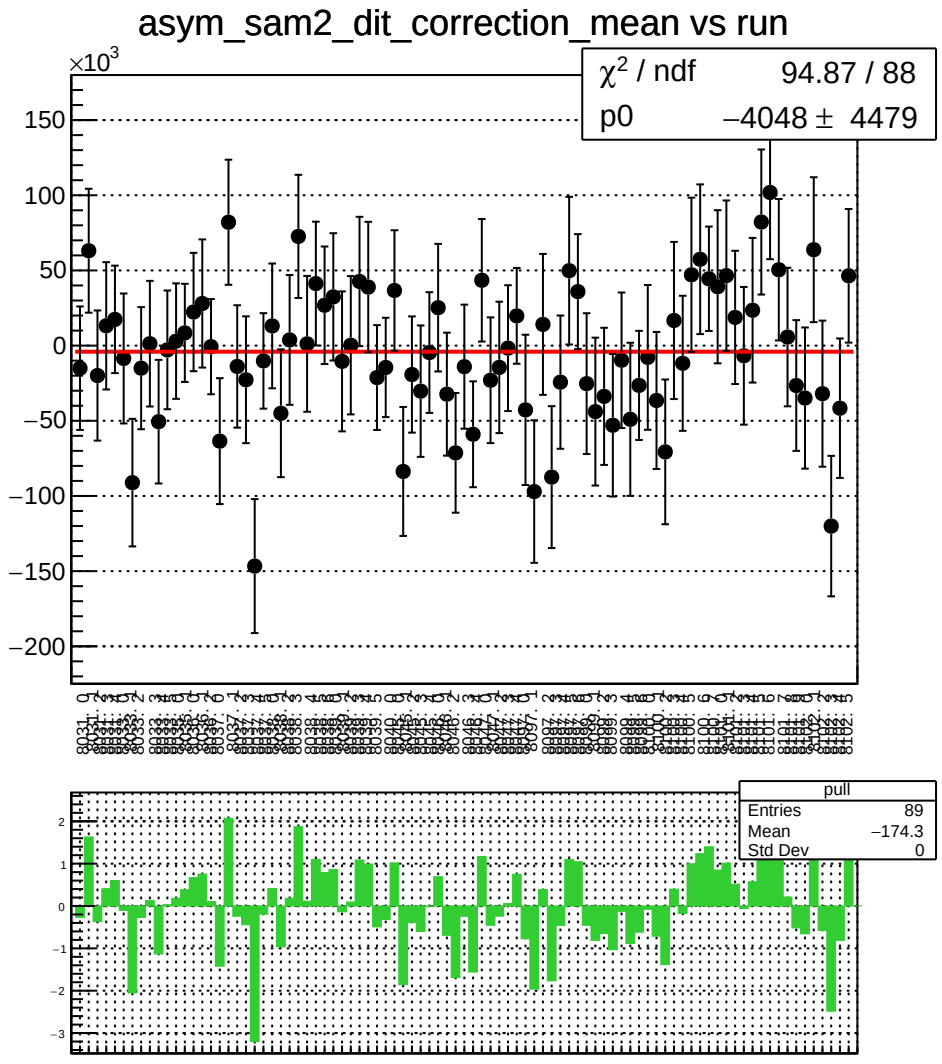

pull1D
Entries 89
Mean −0.005368
Std Dev 1.034
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

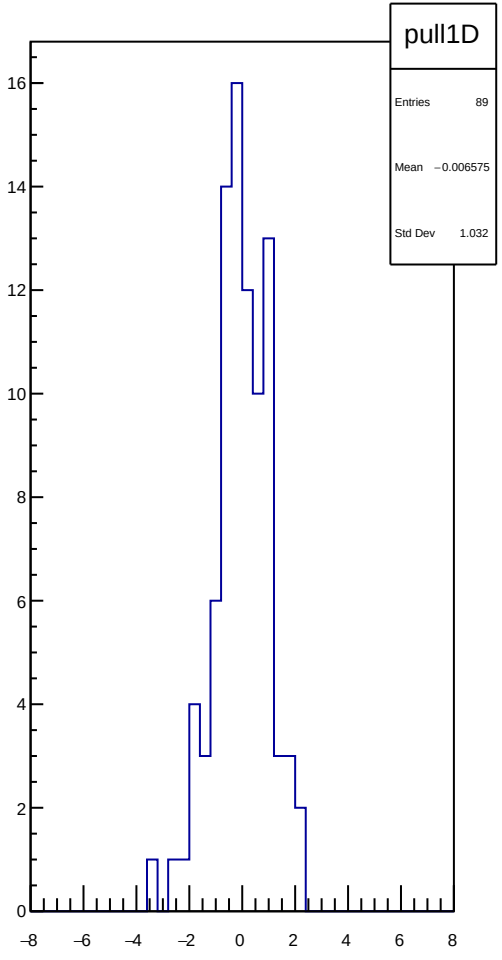

asym_sam2_eigen_cor_correction_rms vs run
χ² / ndf 1.108e+04 / 88
p0 4122 ± 3.128
5000
4800
4600
4400
4200
4000
3800
3600
3400

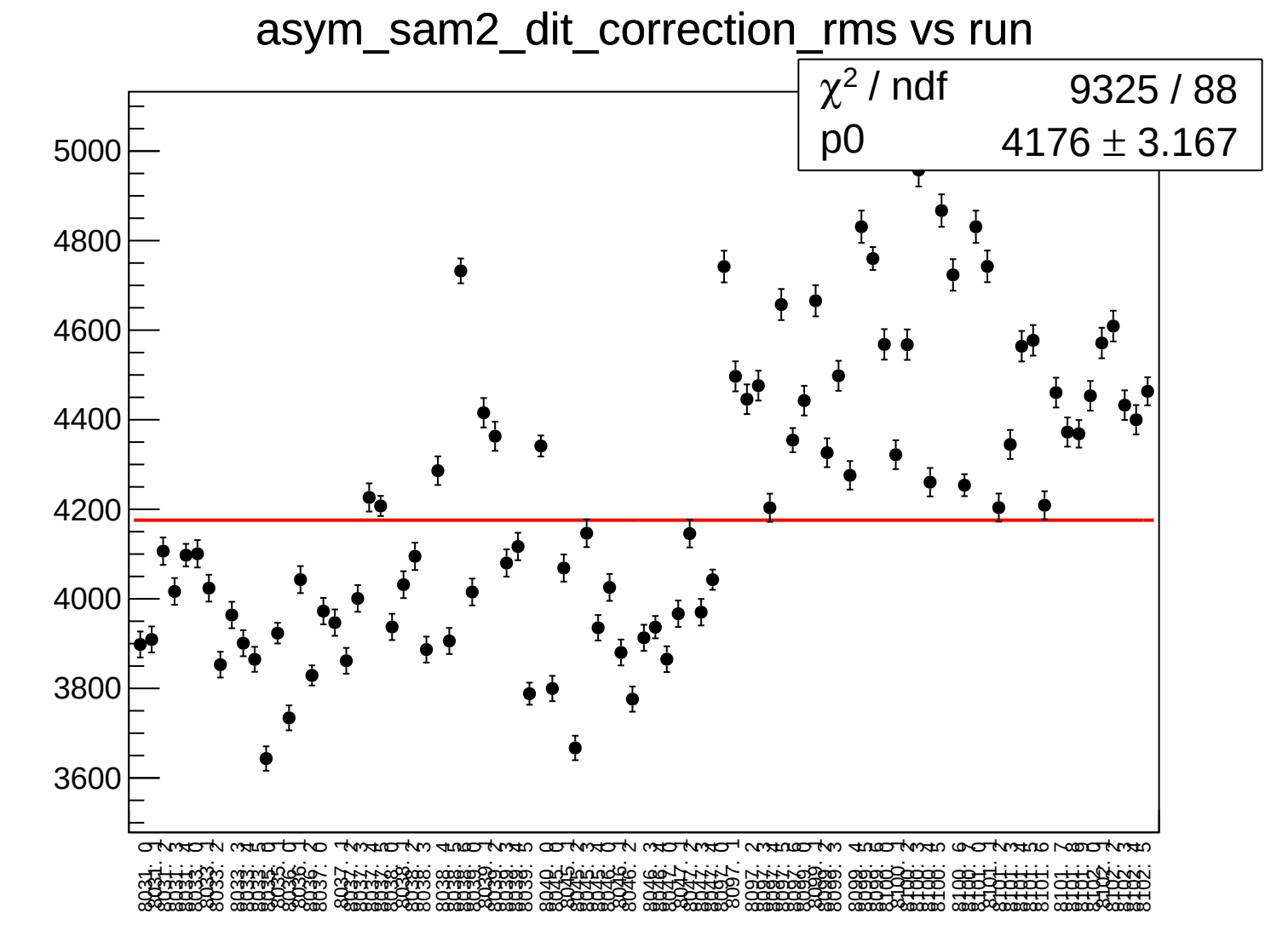

dit_asym_sam2_mean vs run
$\chi^2$ / ndf 78.22 / 88
p0 113.3 ± 341.1
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 317.5
Std Dev 0
2
1
0
−1
−2

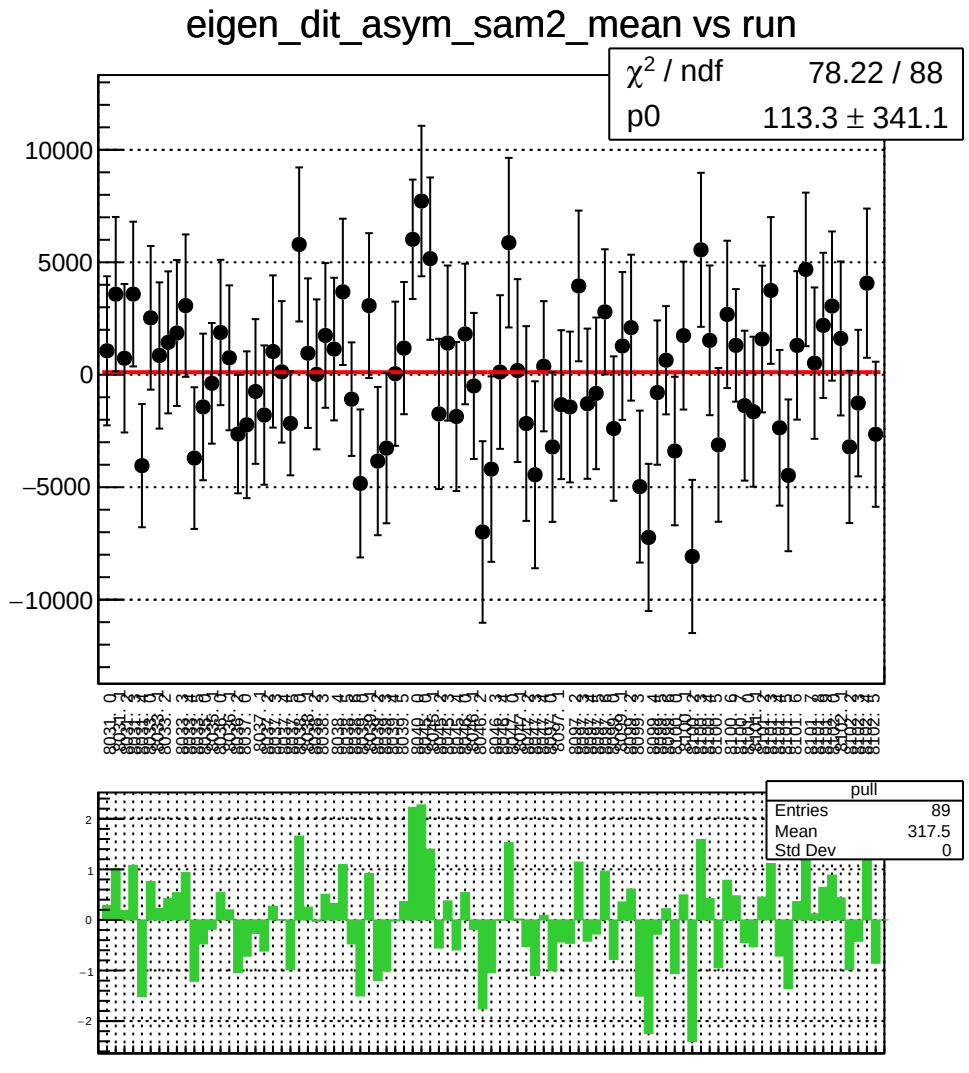

pull1D
Entries 89
Mean −0.005198
Std Dev 0.9375
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

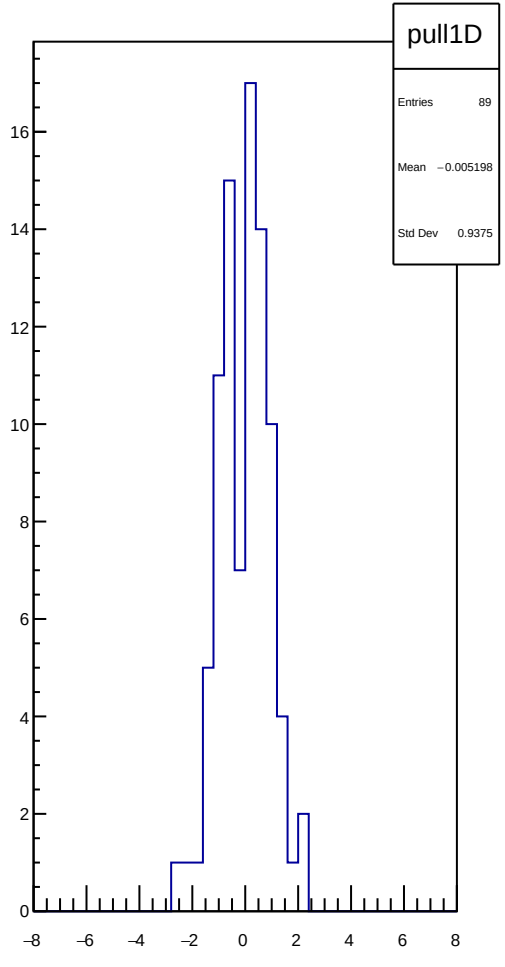

dit_asym_sam2_rms vs run
χ² / ndf 6489 / 88
p0 318.3 ± 0.2412
420
400
380
360
340
320
300
280

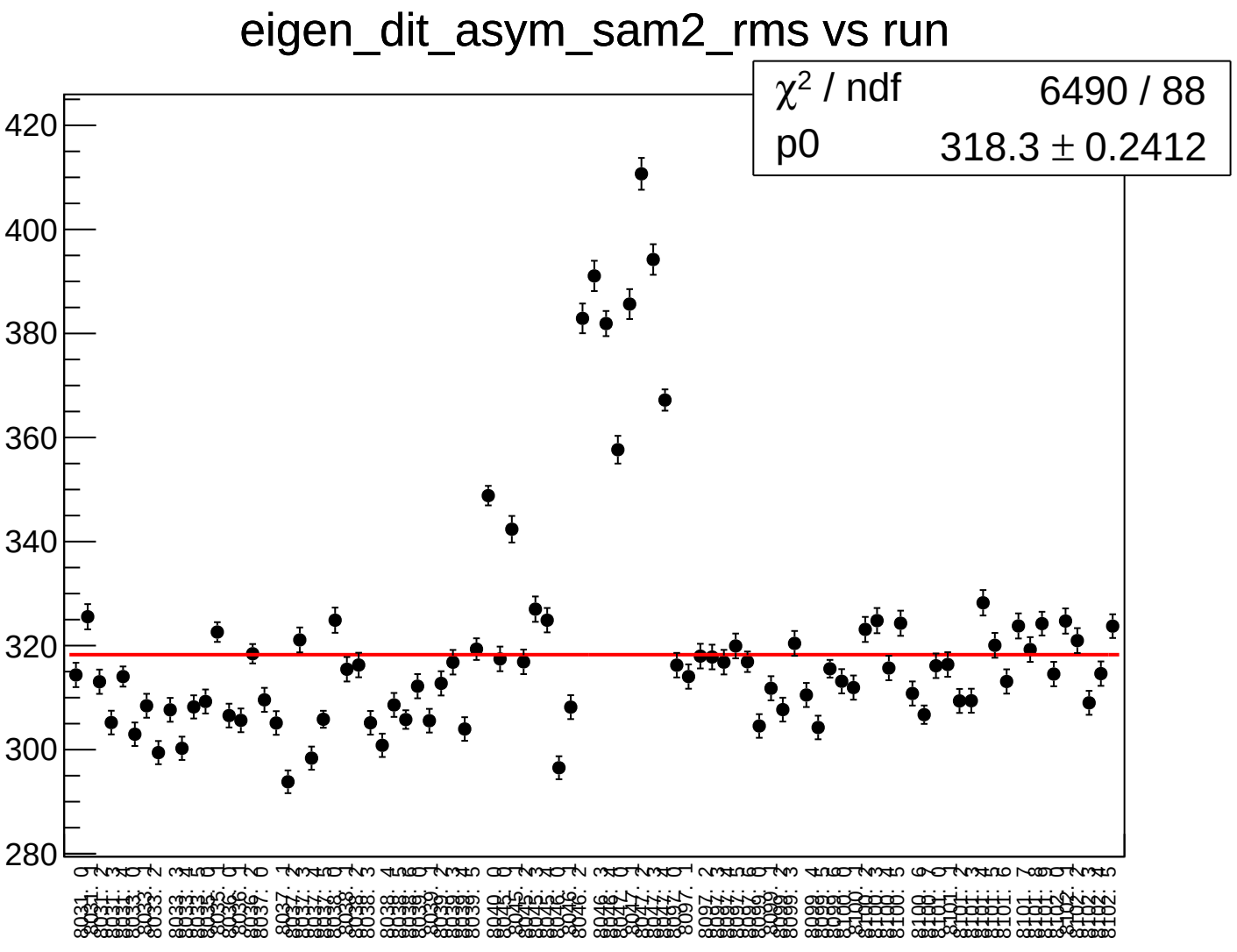

asym_sam2_dit_correction_mean vs run
×10^3
χ² / ndf 94.87 / 88
p0 −4048 ± 4479
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean −174.3
Std Dev 0
2
1
0
−1
−2
−3

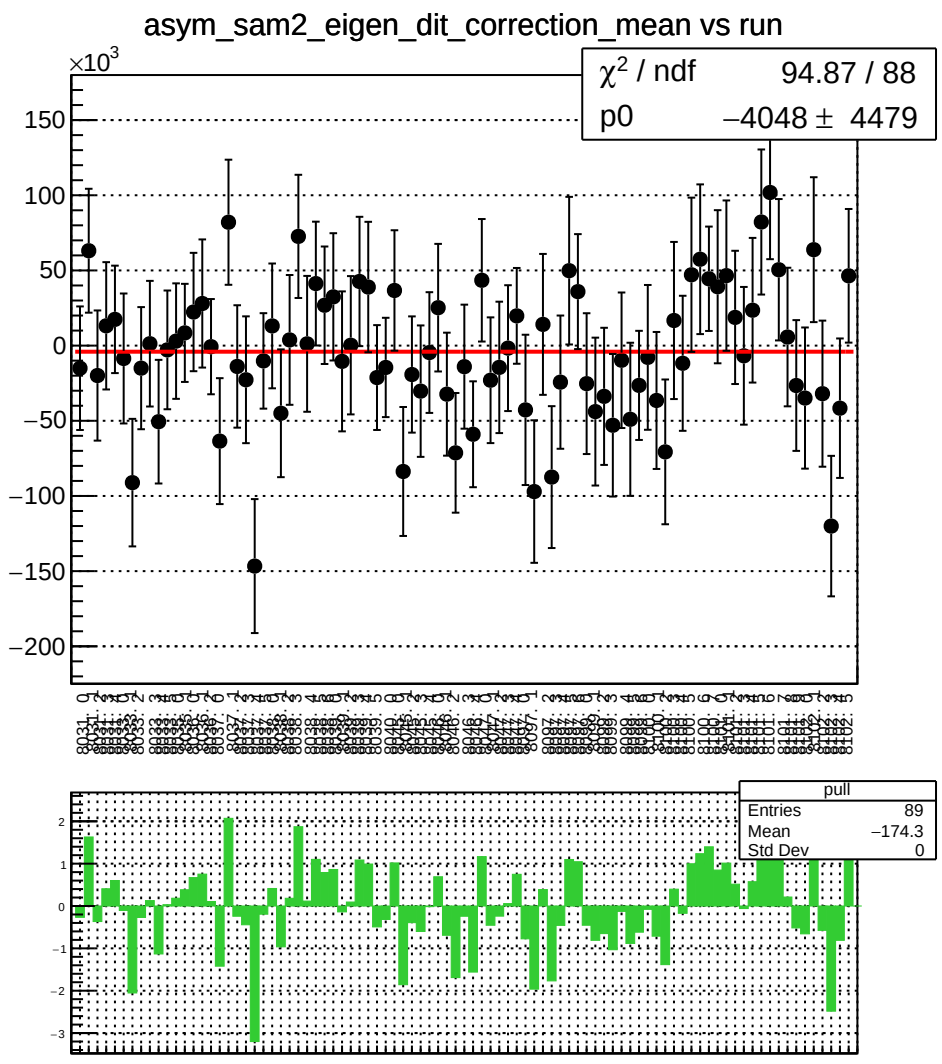

pull1D
Entries 89
Mean −0.006575
Std Dev 1.032
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

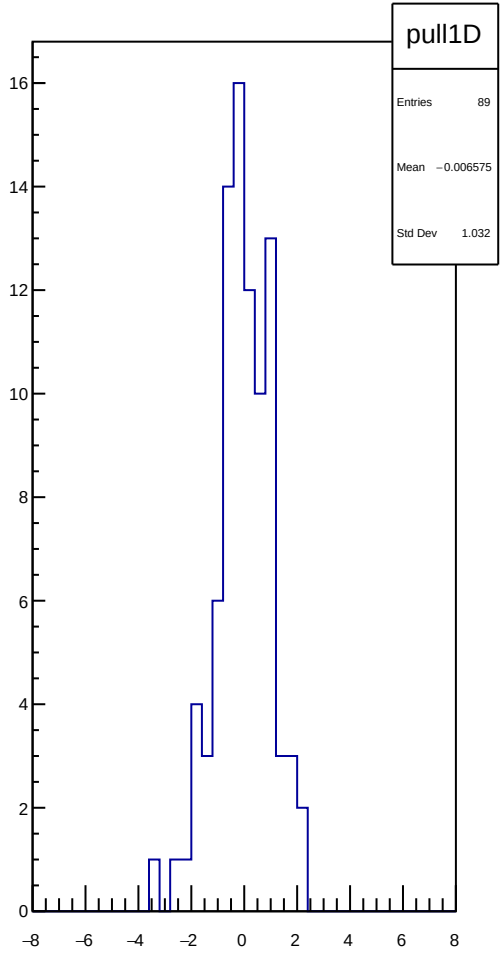

asym_sam2_dit_correction_rms vs run
$\chi^2$ / ndf 9325 / 88
p0 4176 ± 3.167
5000
4800
4600
4400
4200
4000
3800
3600

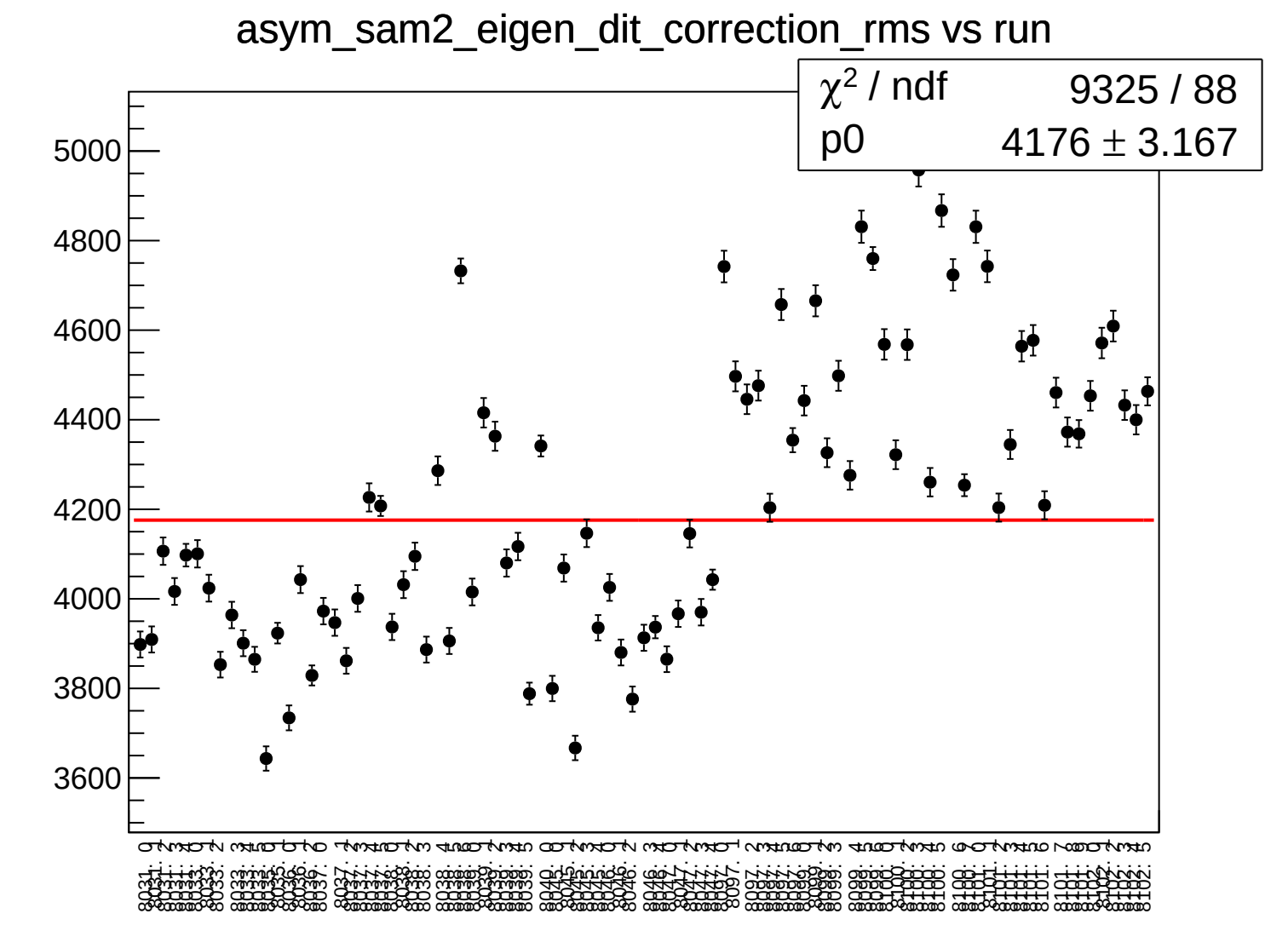

eigen_dit_asym_sam2_mean vs run
χ² / ndf 78.22 / 88
p0 113.3 ± 341.1
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 317.5
Std Dev 0
2
1
0
−1
−2

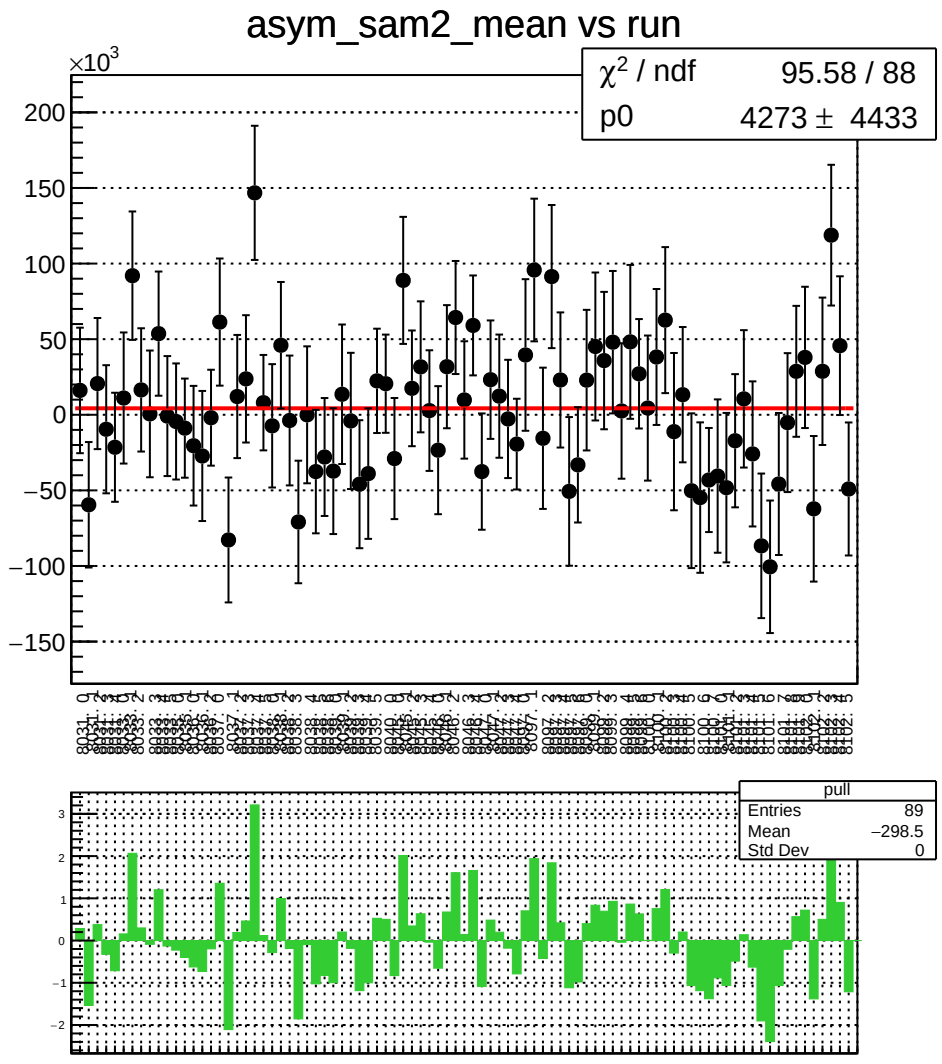

pull1D
Entries 89
Mean −0.005198
Std Dev 0.9375
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

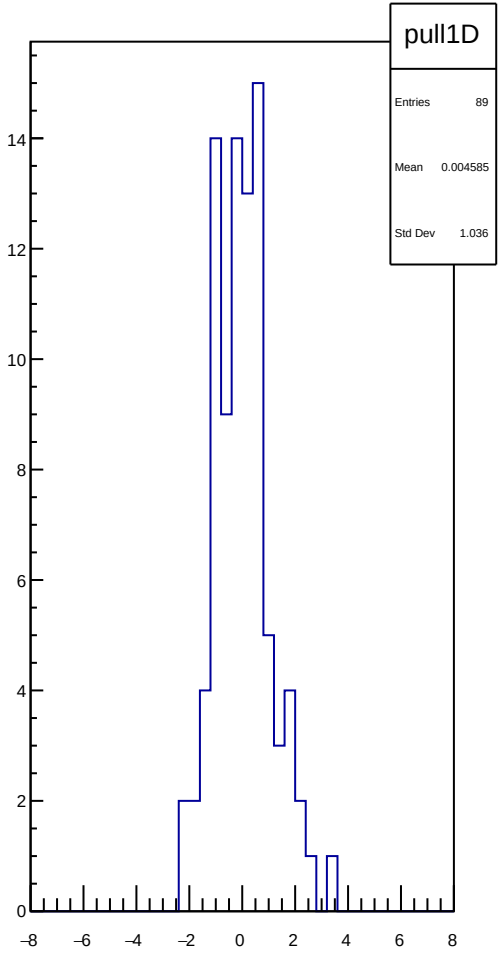

eigen_dit_asym_sam2_rms vs run
χ² / ndf 6490 / 88
p0 318.3 ± 0.2412
420
400
380
360
340
320
300
280

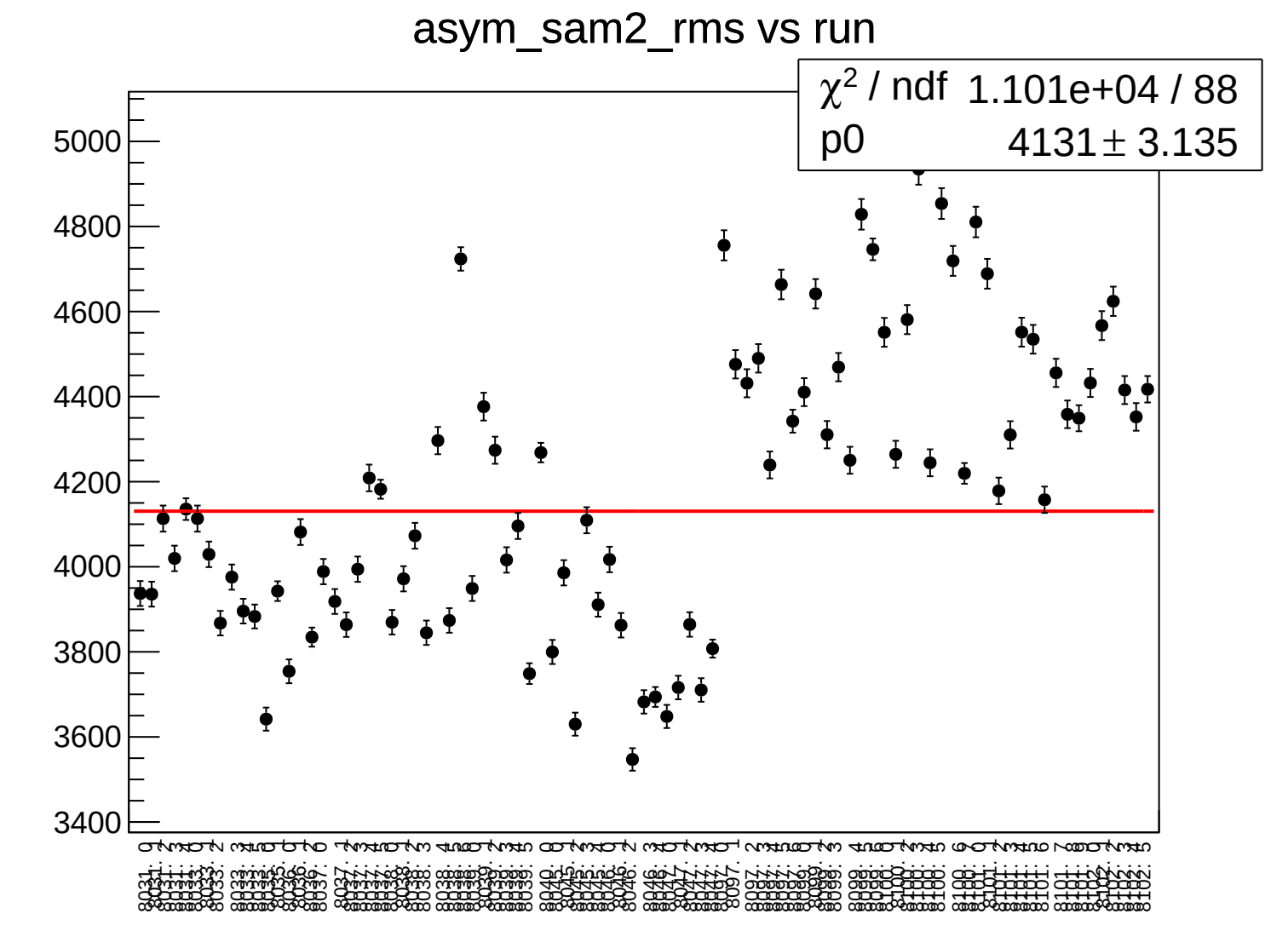

asym_sam2_eigen_dit_correction_mean vs run
χ² / ndf 94.87 / 88
p0 −4048 ± 4479
×10³
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean −174.3
Std Dev 0
2
1
0
−1
−2
−3

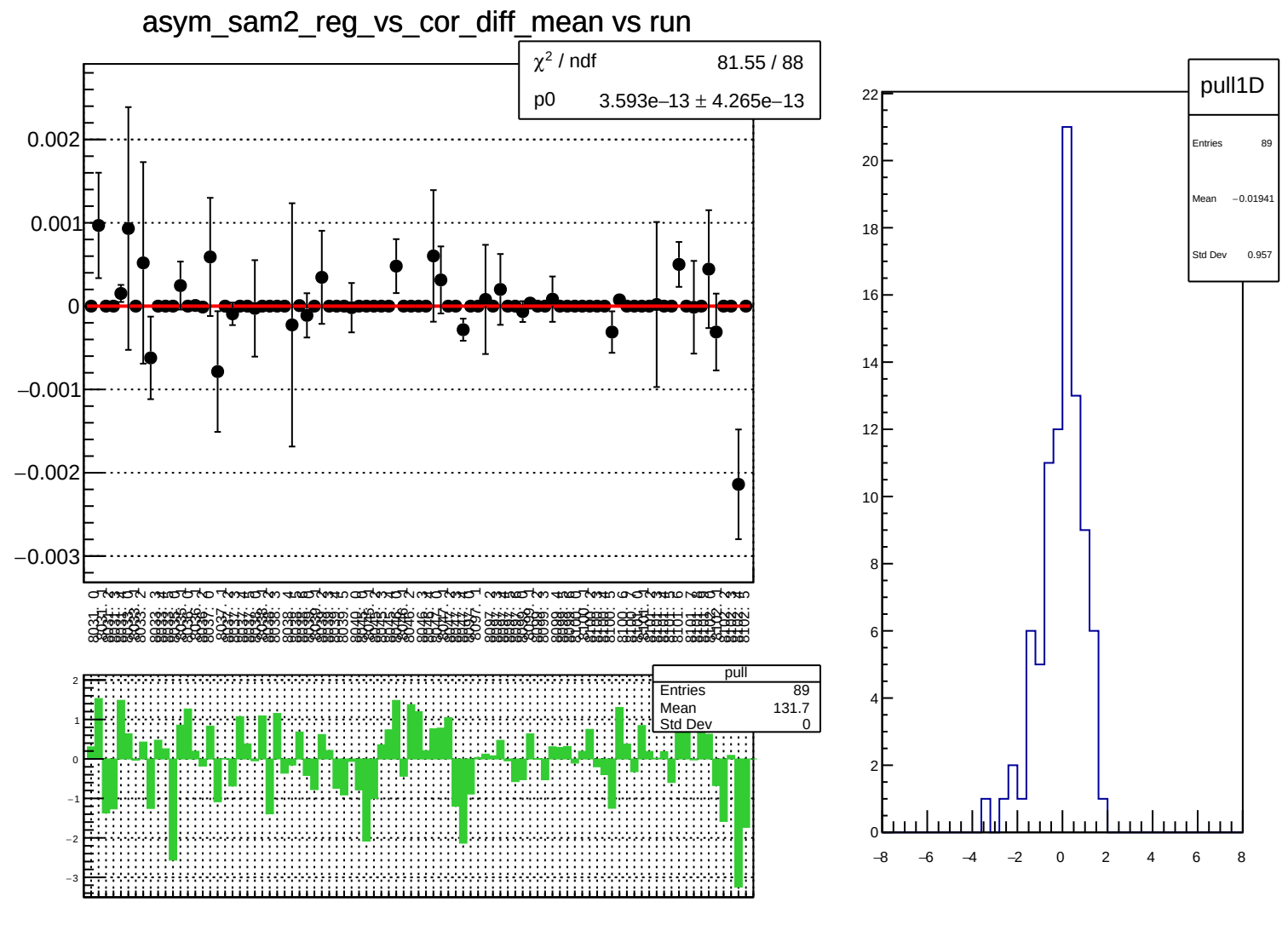

pull1D
Entries 89
Mean −0.006575
Std Dev 1.032
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

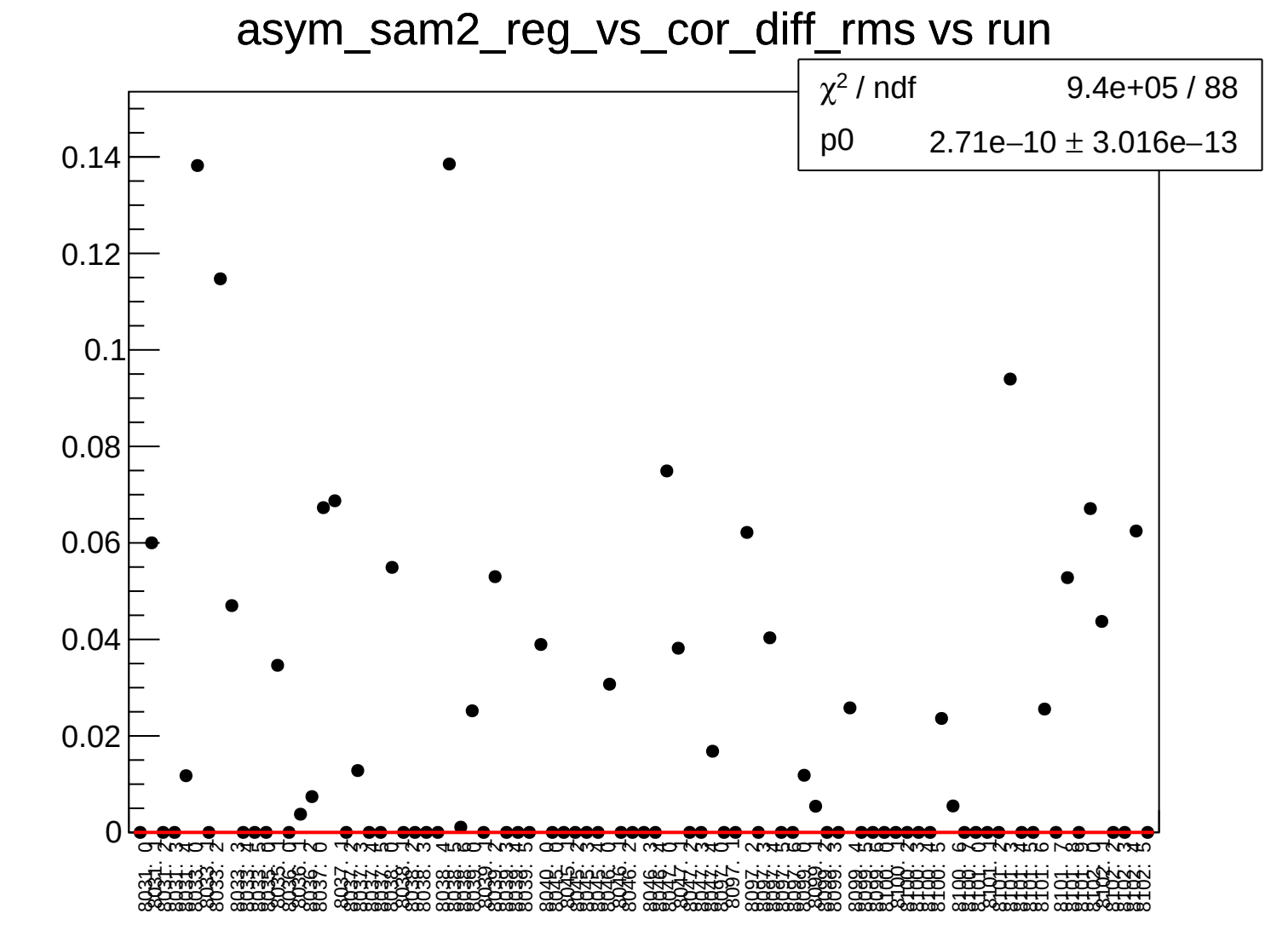

asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 9325 / 88
p0 4176 ± 3.167
5000
4800
4600
4400
4200
4000
3800
3600

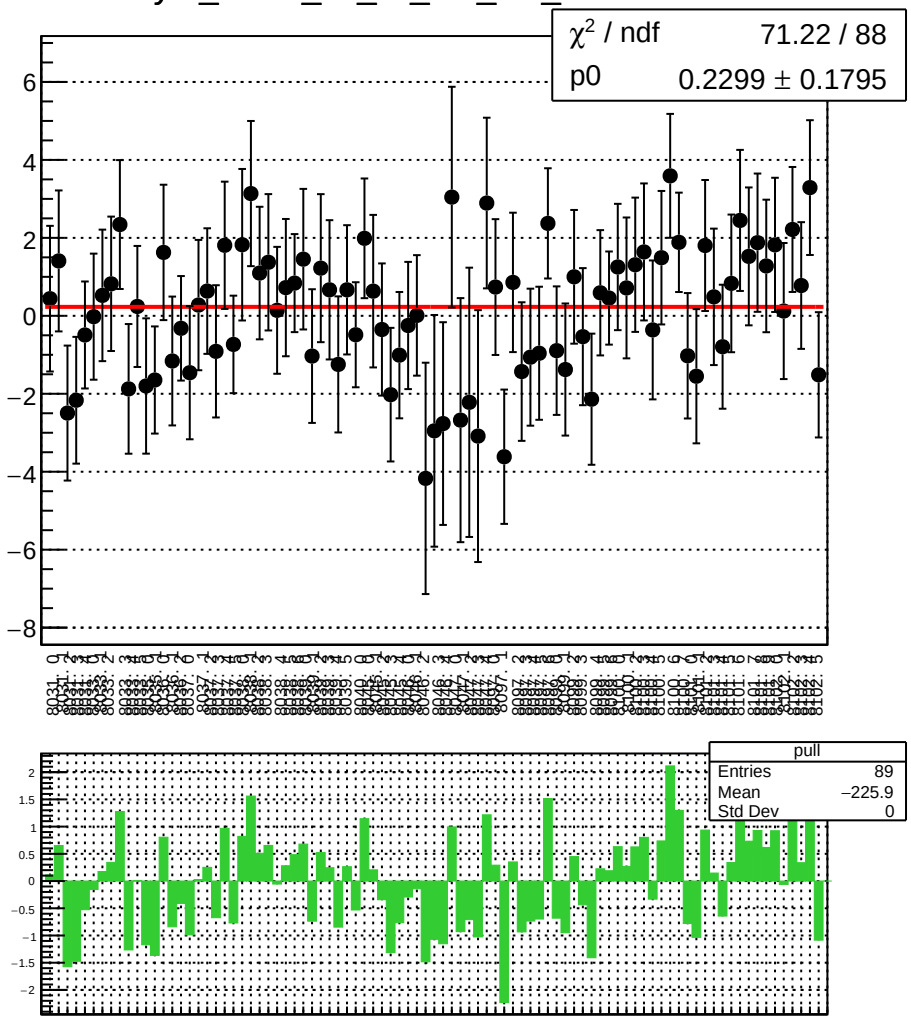

asym_sam2_mean vs run
×10^3
χ² / ndf 95.58 / 88
p0 4273 ± 4433
200
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −298.5
Std Dev 0
3
2
1
0
−1
−2

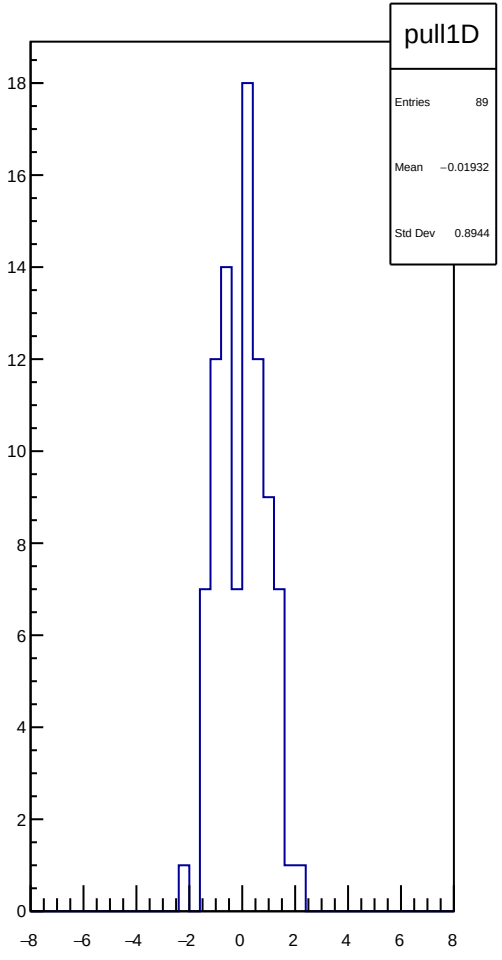

pull1D
Entries 89
Mean 0.004585
Std Dev 1.036
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

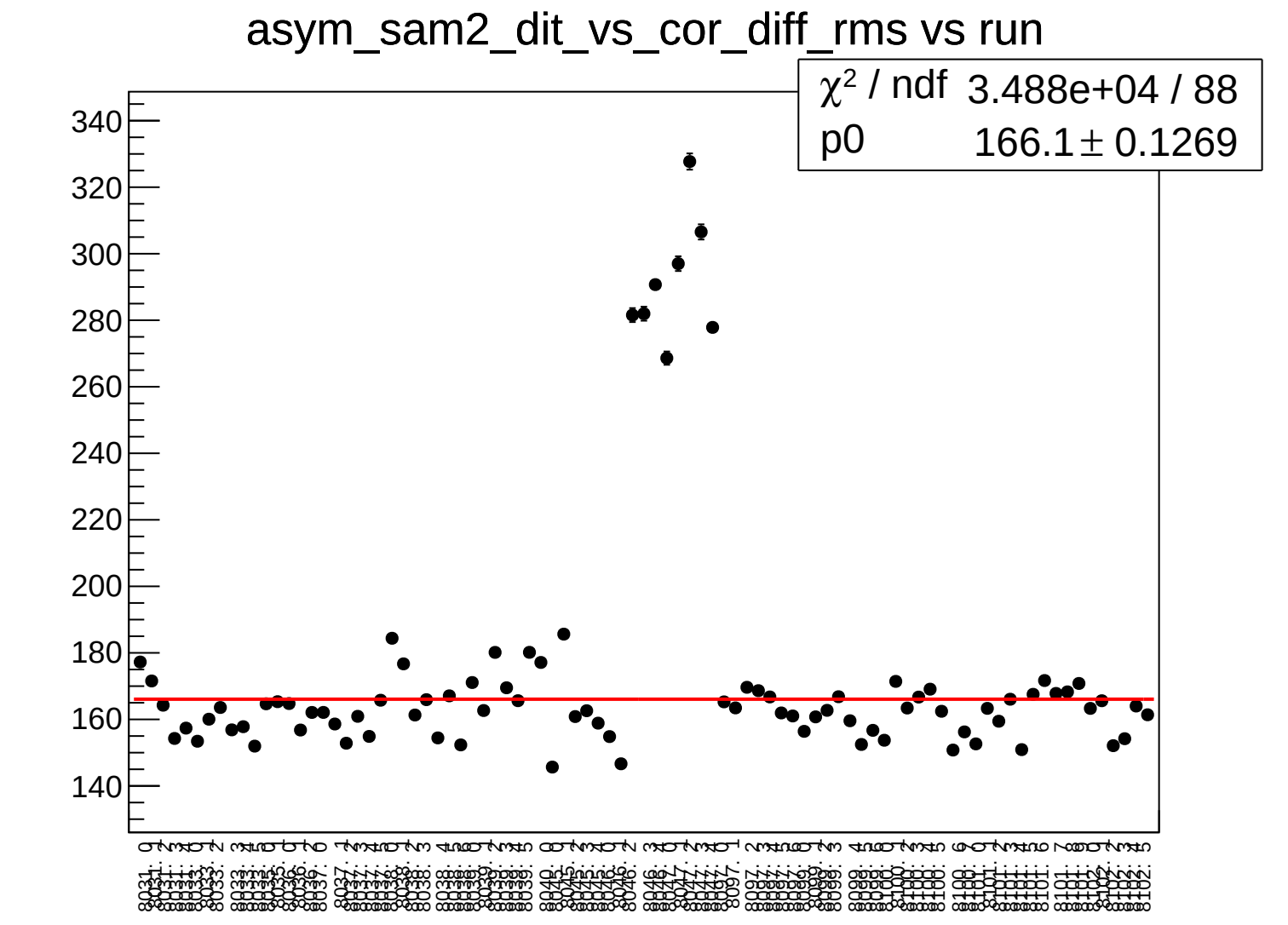

asym_sam2_rms vs run
χ² / ndf 1.101e+04 / 88
p0 4131 ± 3.135
5000
4800
4600
4400
4200
4000
3800
3600
3400

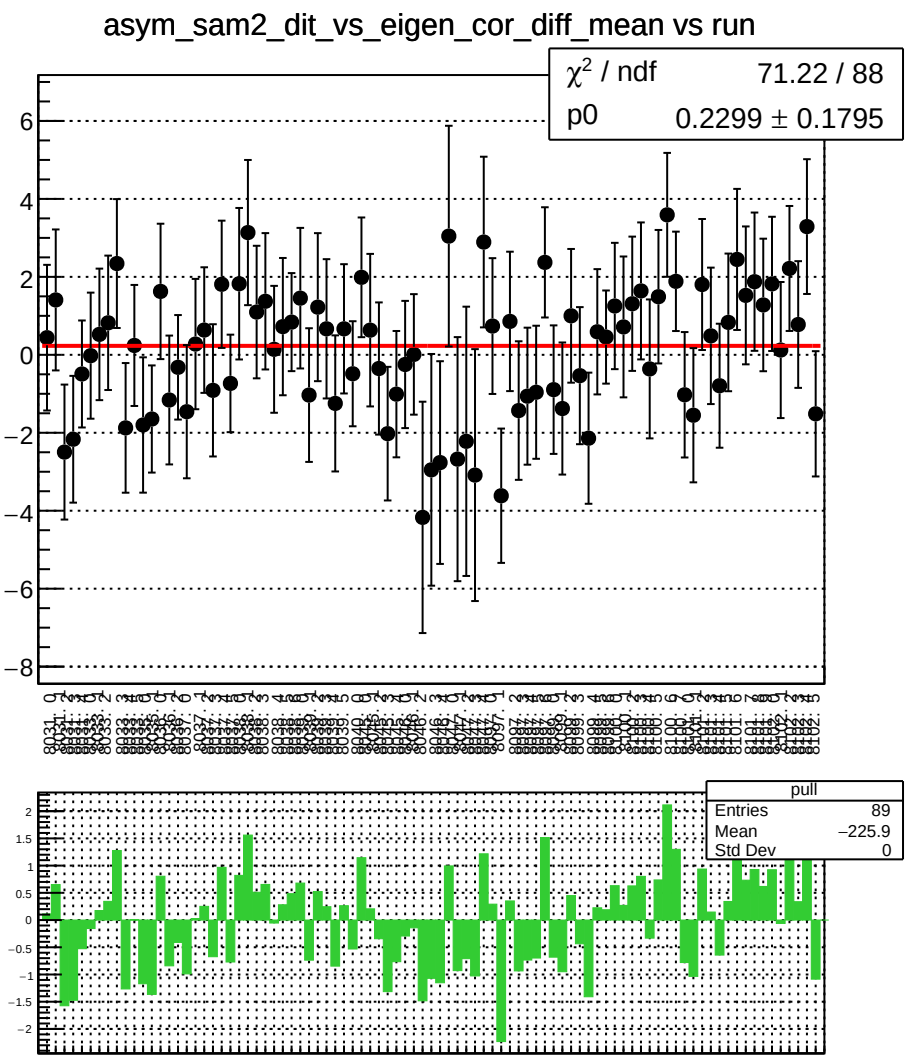

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 81.55 / 88
p0 3.593e−13 ± 4.265e−13
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 89
Mean 131.7
Std Dev 0
pull1D
Entries 89
Mean −0.01941
Std Dev 0.957
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

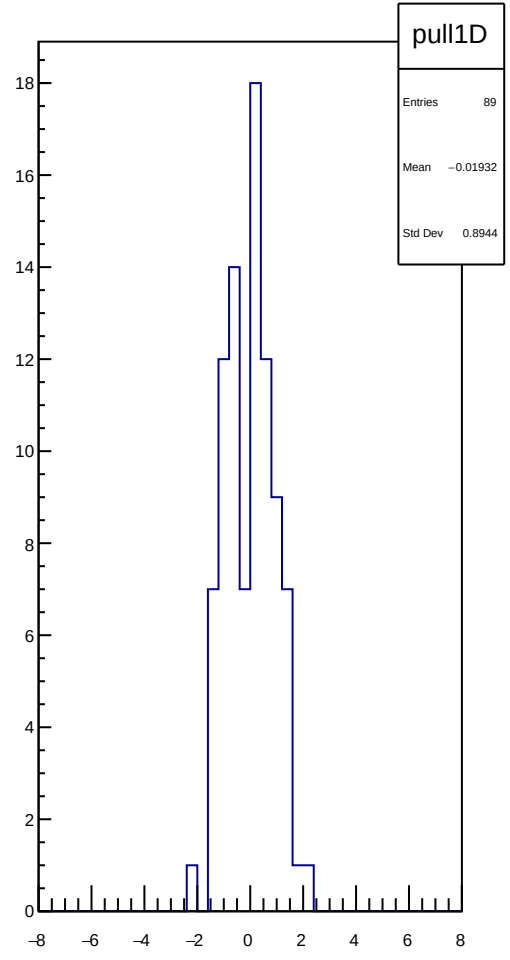

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 9.4e+05 / 88
p0 2.71e−10 ± 3.016e−13
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

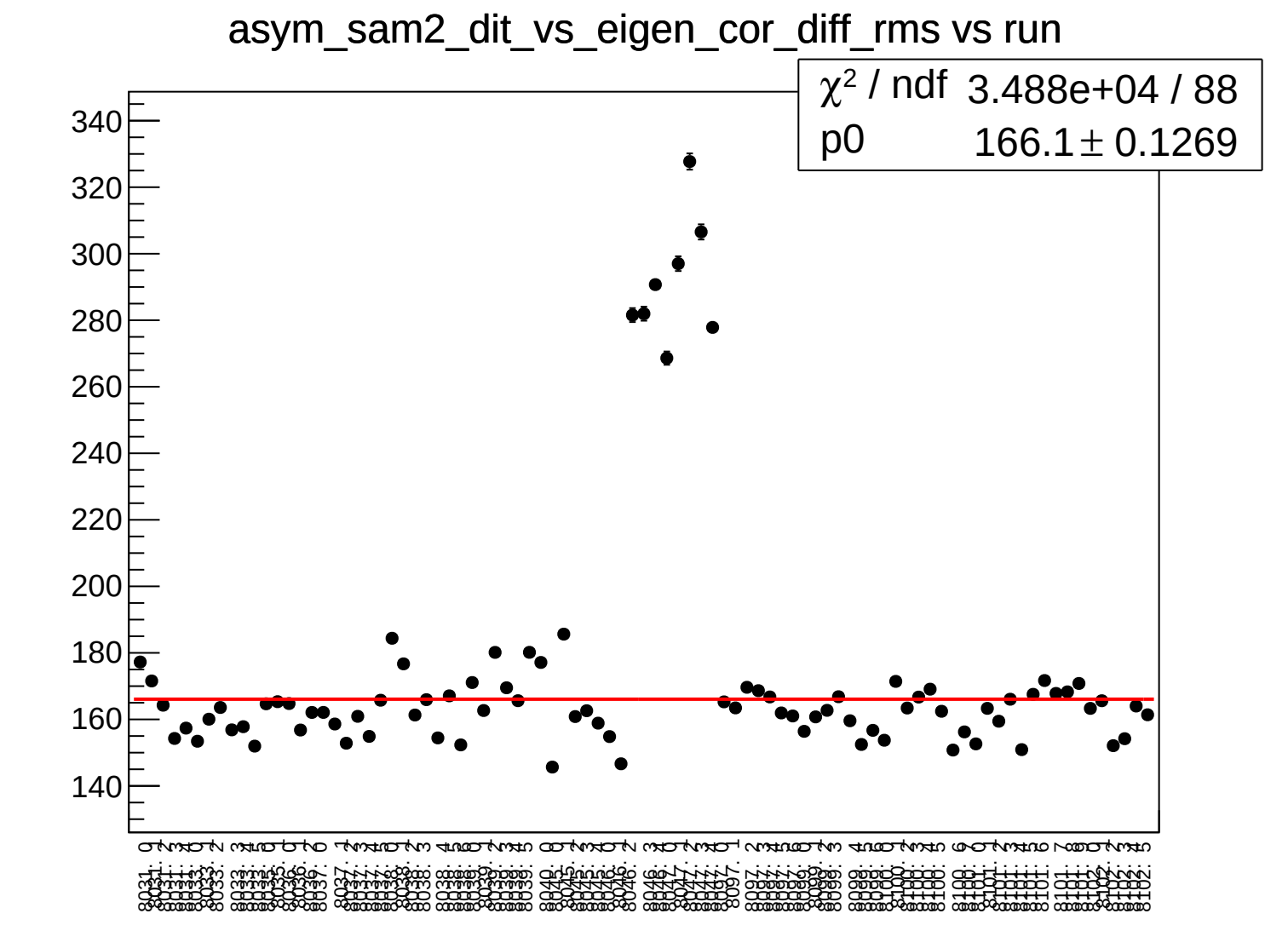

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 71.22 / 88
p0 0.2299 ± 0.1795
pull
Entries 89
Mean −225.9
Std Dev 0

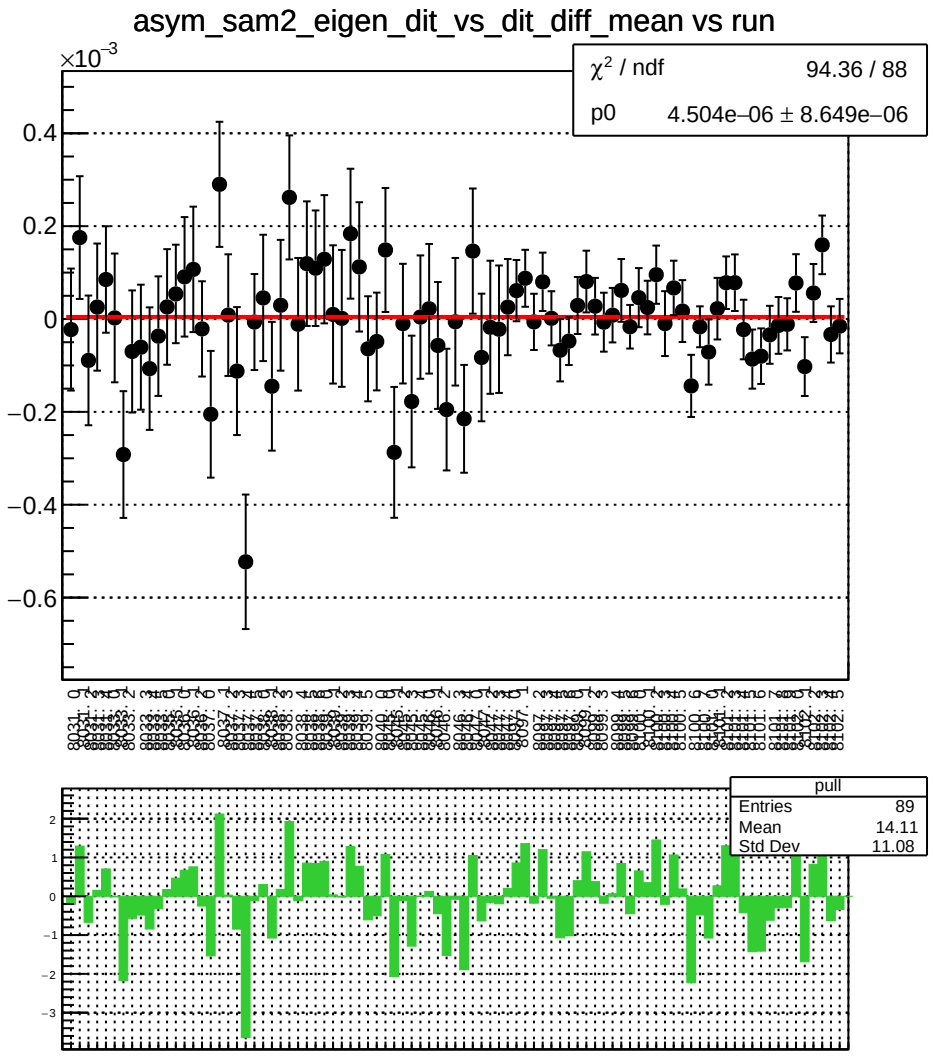

pull1D
Entries 89
Mean −0.01932
Std Dev 0.8944

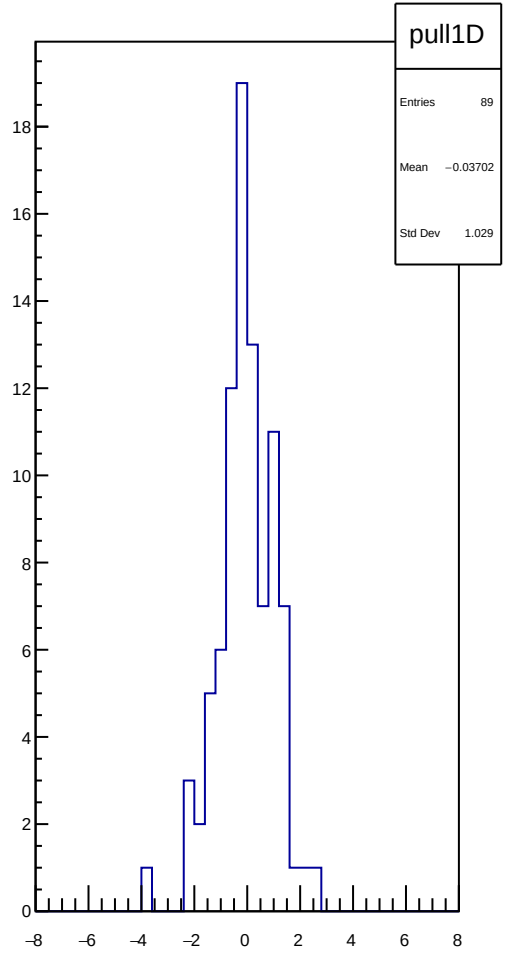

asym_sam2_dit_vs_cor_diff_rms vs run
χ² / ndf 3.488e+04 / 88
p0 166.1 ± 0.1269
340
320
300
280
260
240
220
200
180
160
140

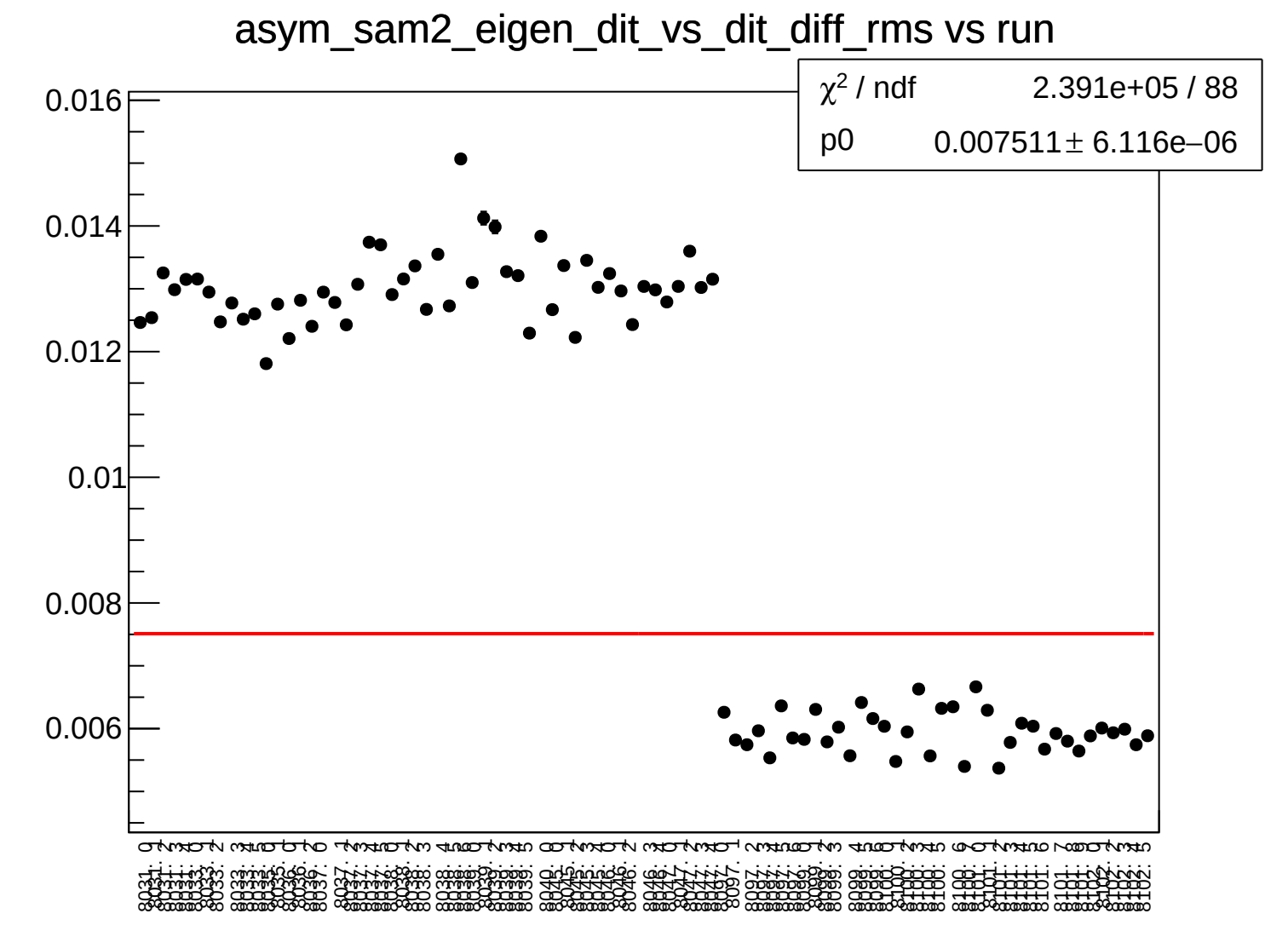

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.22 / 88
p0 0.2299 ± 0.1795
pull
Entries 89
Mean −225.9
Std Dev 0

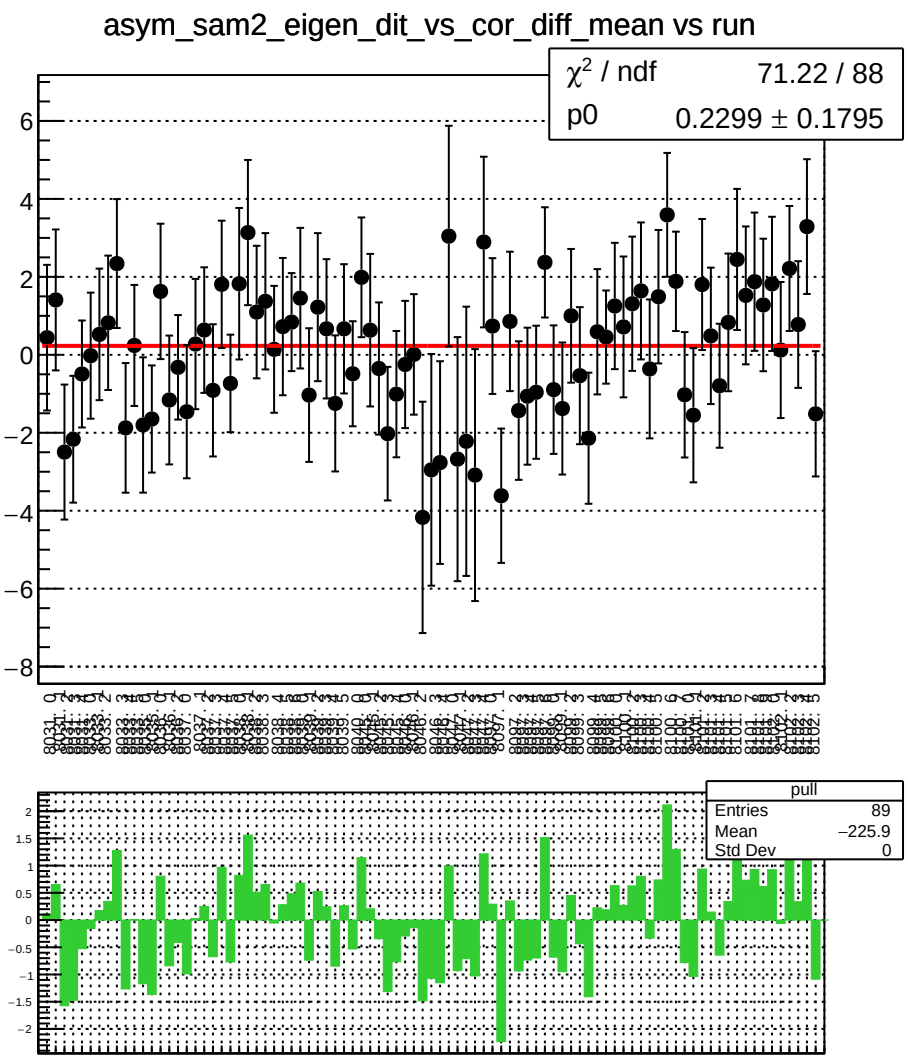

pull1D
Entries 89
Mean −0.01932
Std Dev 0.8944

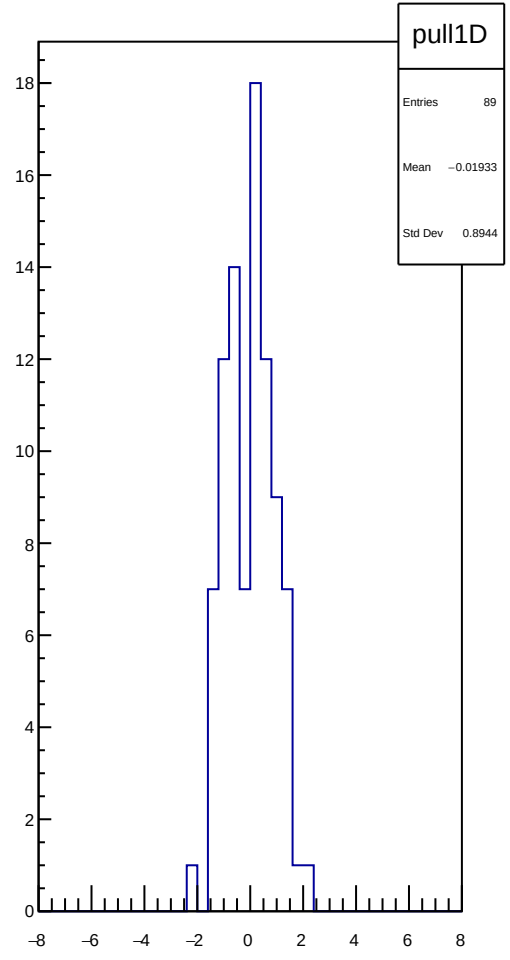

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.488e+04 / 88
p0 166.1 ± 0.1269
340
320
300
280
260
240
220
200
180
160
140

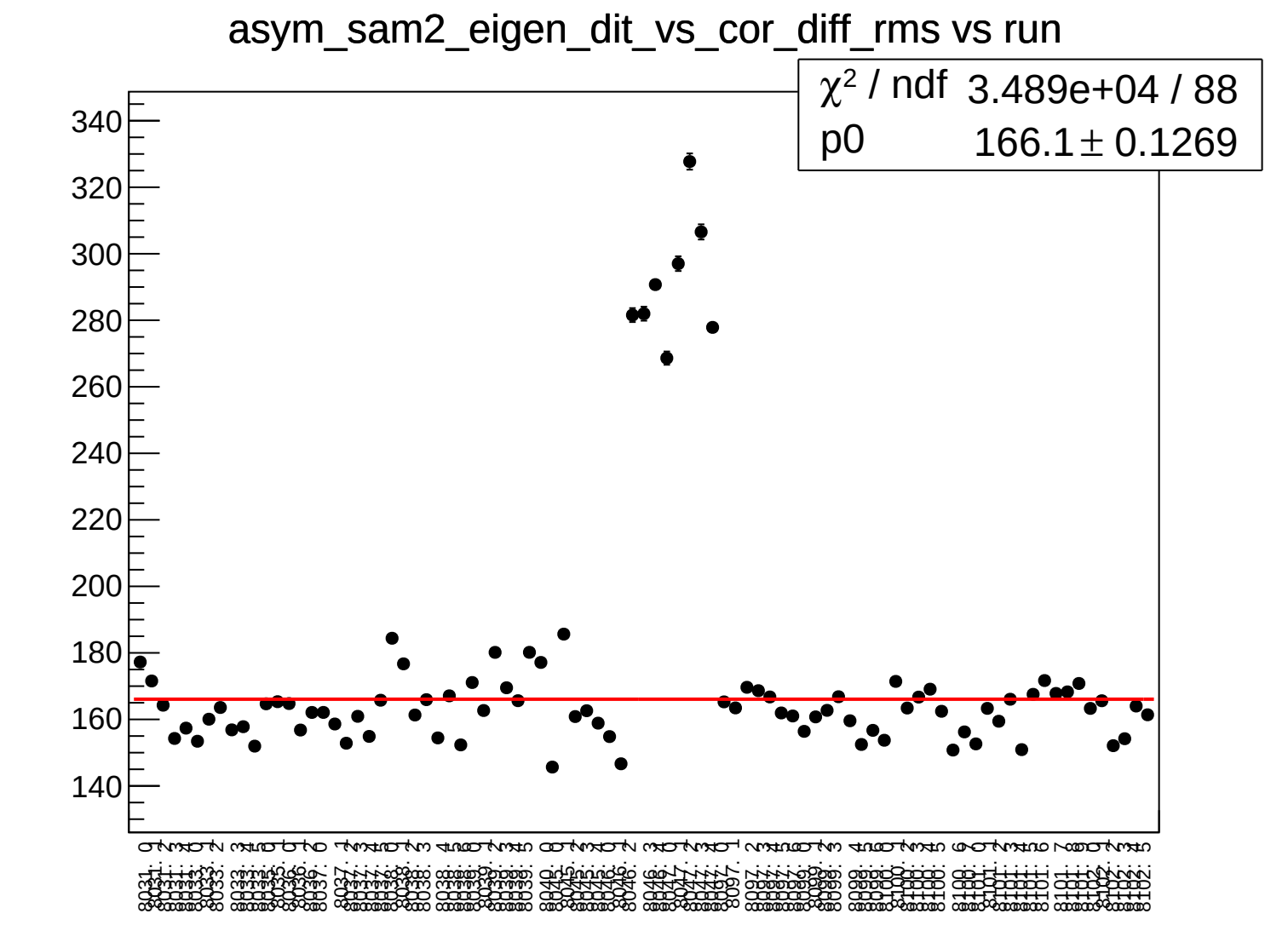

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.36 / 88
p0 4.504e−06 ± 8.649e−06
pull
Entries 89
Mean 14.11
Std Dev 11.08

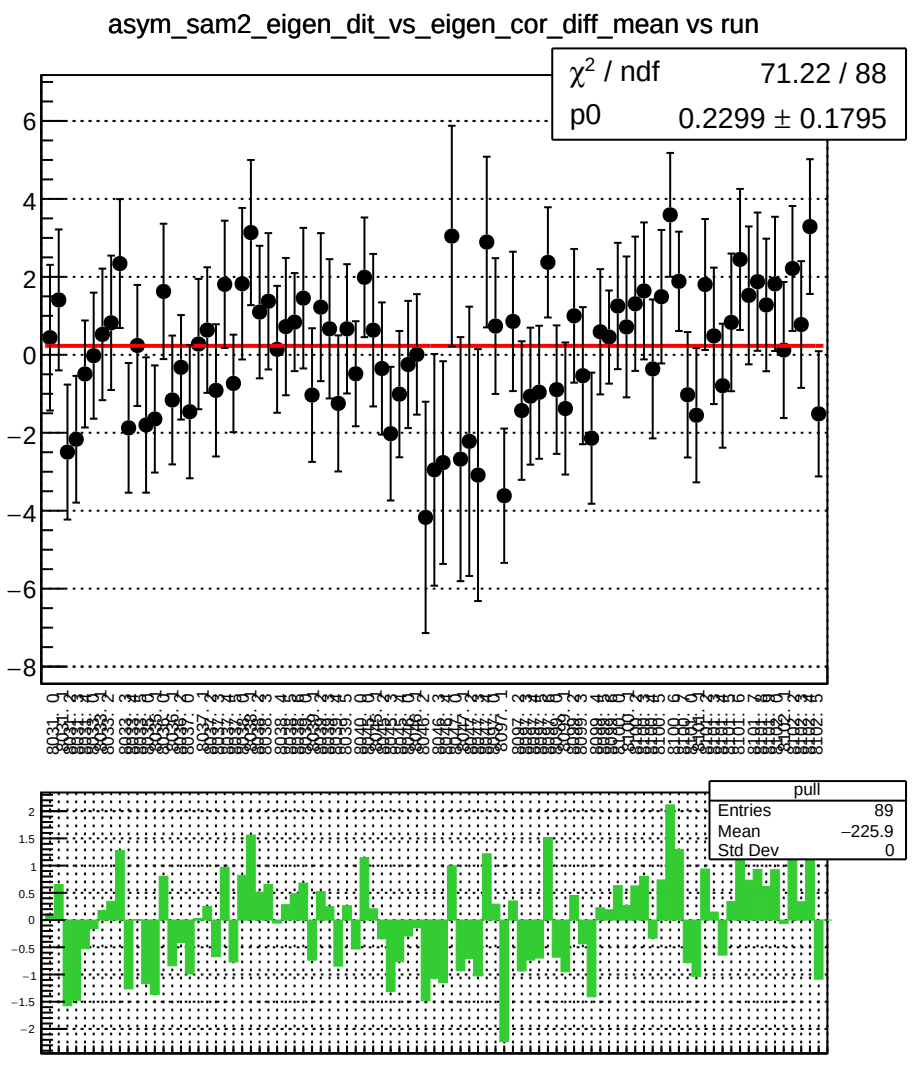

pull1D
Entries 89
Mean −0.03702
Std Dev 1.029

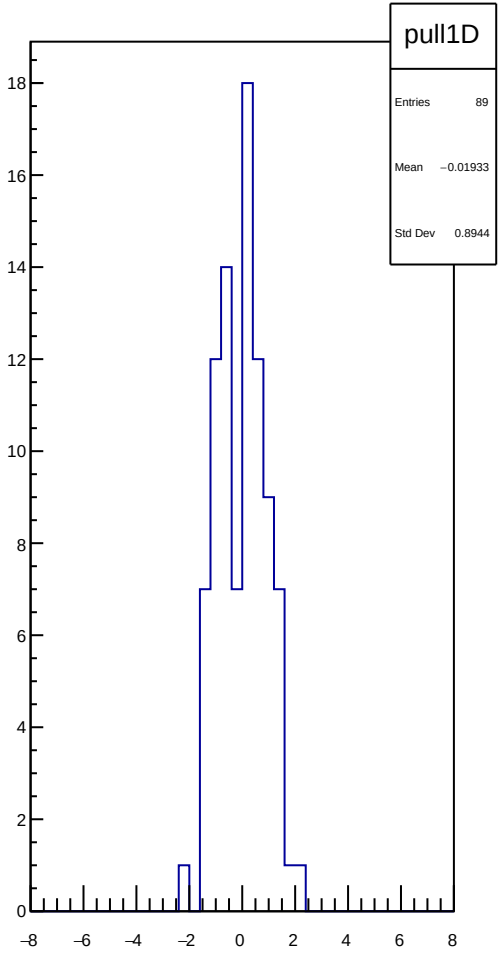

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.391e+05 / 88
p0 0.007511 ± 6.116e−06
0.016
0.014
0.012
0.01
0.008
0.006

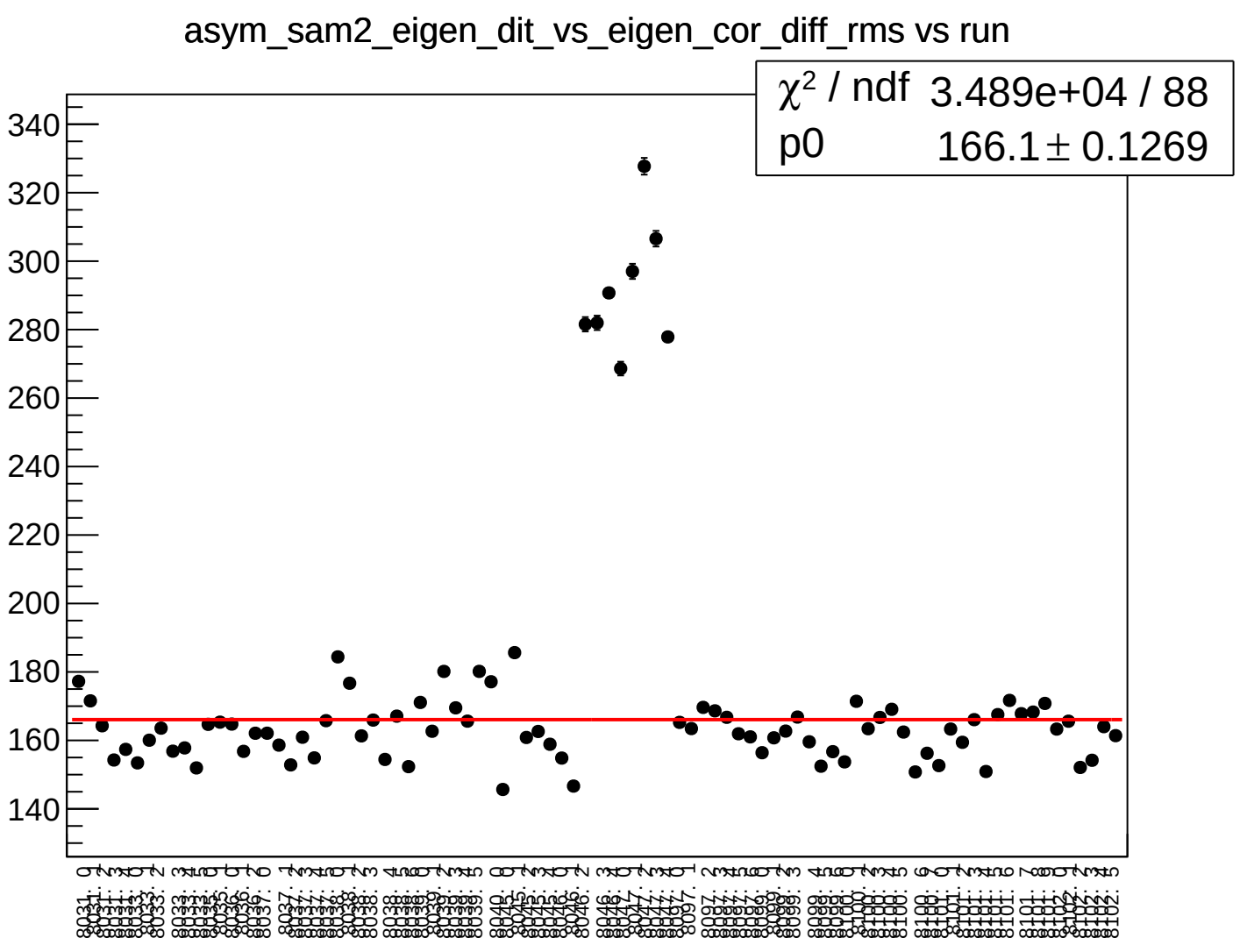

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.22 / 88
p0 0.2299 ± 0.1795
pull
Entries 89
Mean −225.9
Std Dev 0

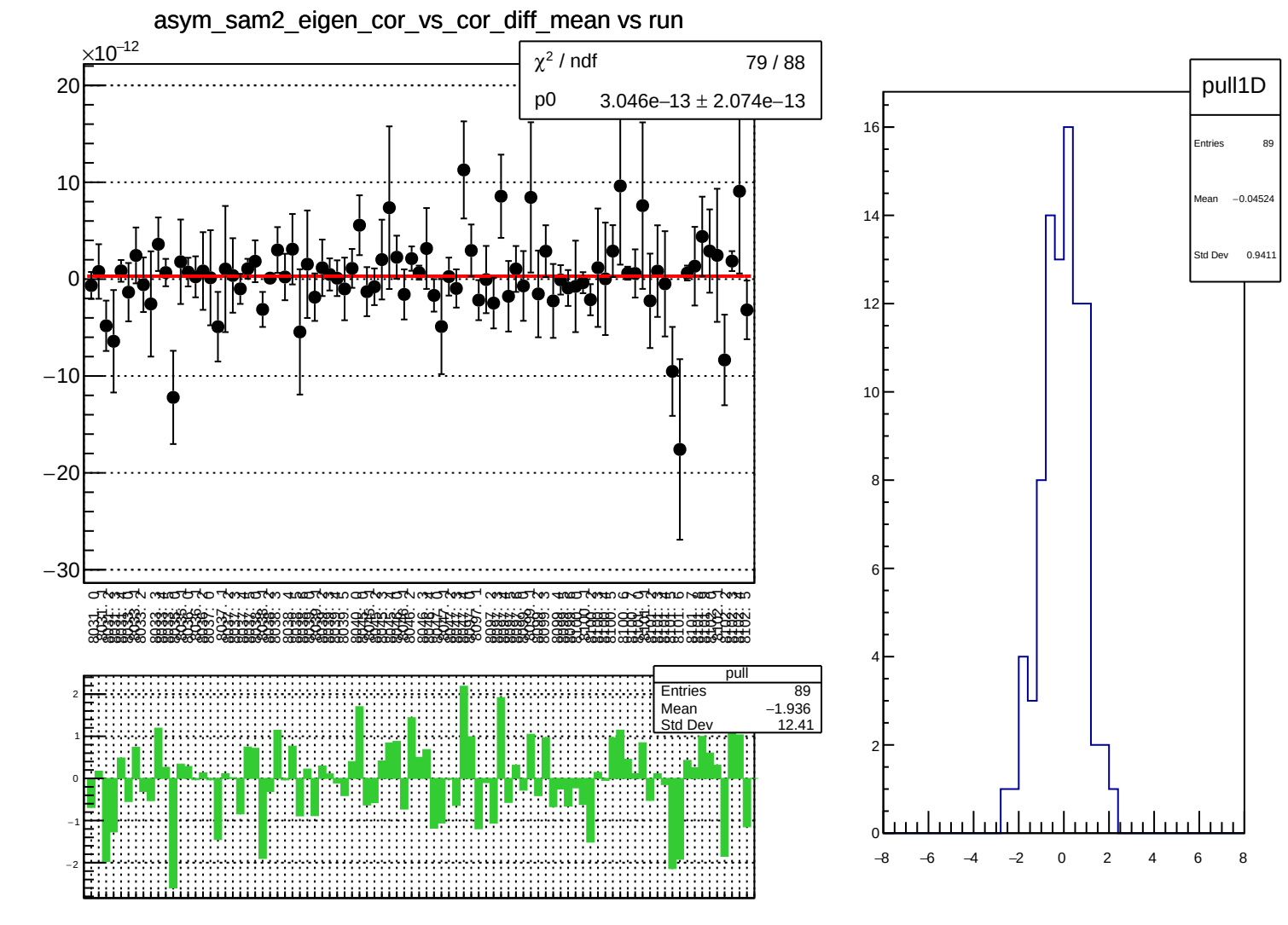

pull1D
Entries 89
Mean −0.01933
Std Dev 0.8944

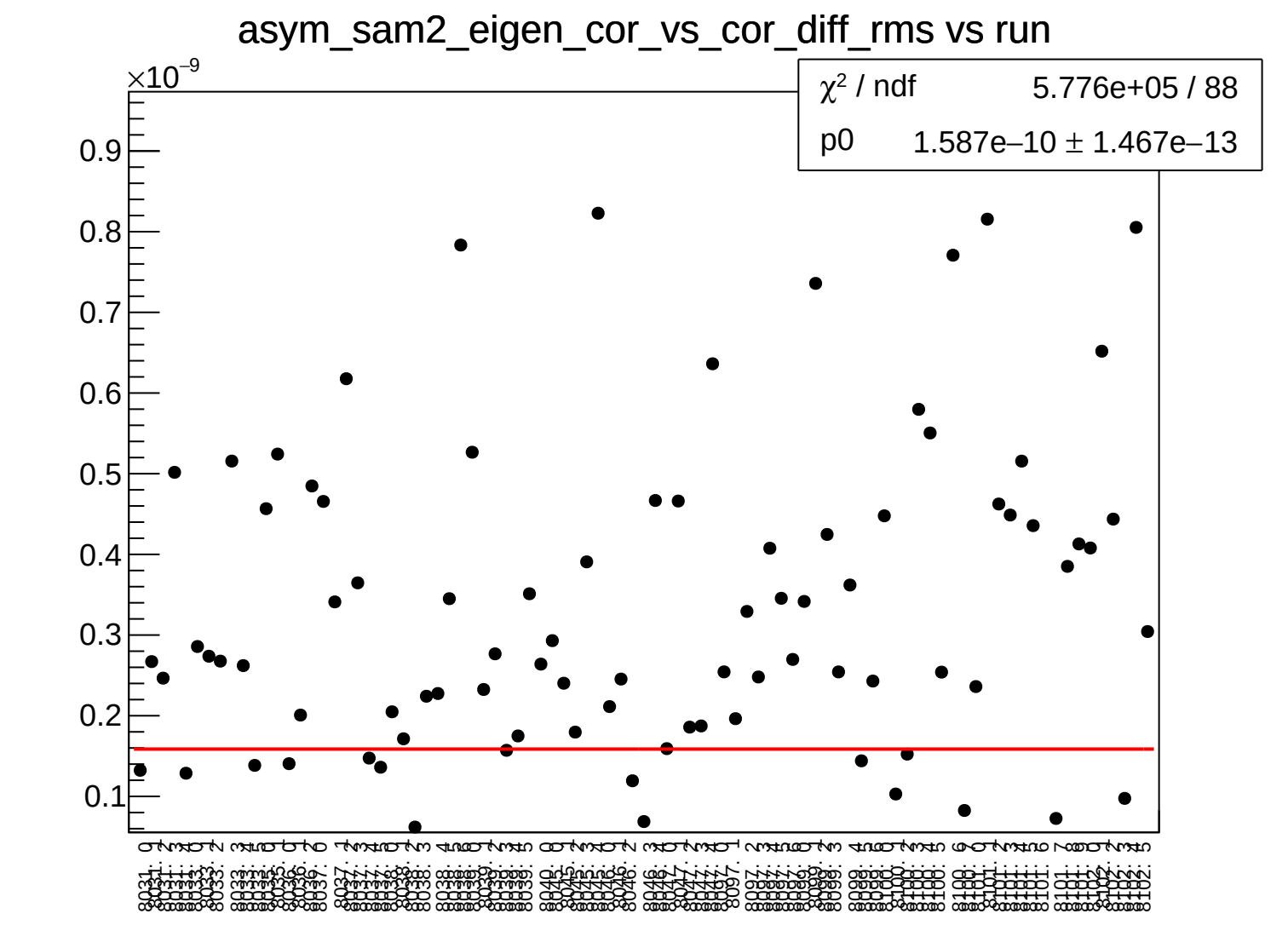

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.489e+04 / 88
p0 166.1 ± 0.1269
340
320
300
280
260
240
220
200
180
160
140

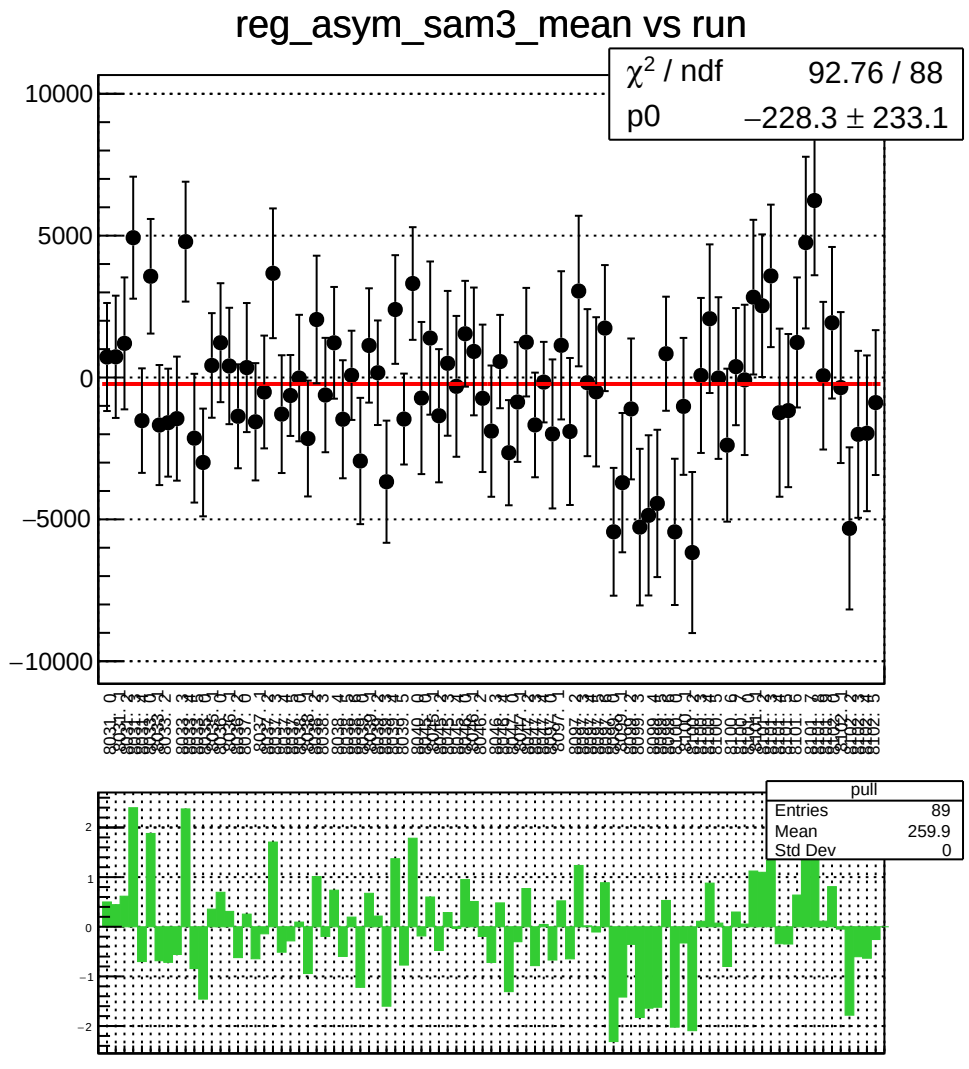

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.22 / 88
p0 0.2299 ± 0.1795
pull
Entries 89
Mean −225.9
Std Dev 0

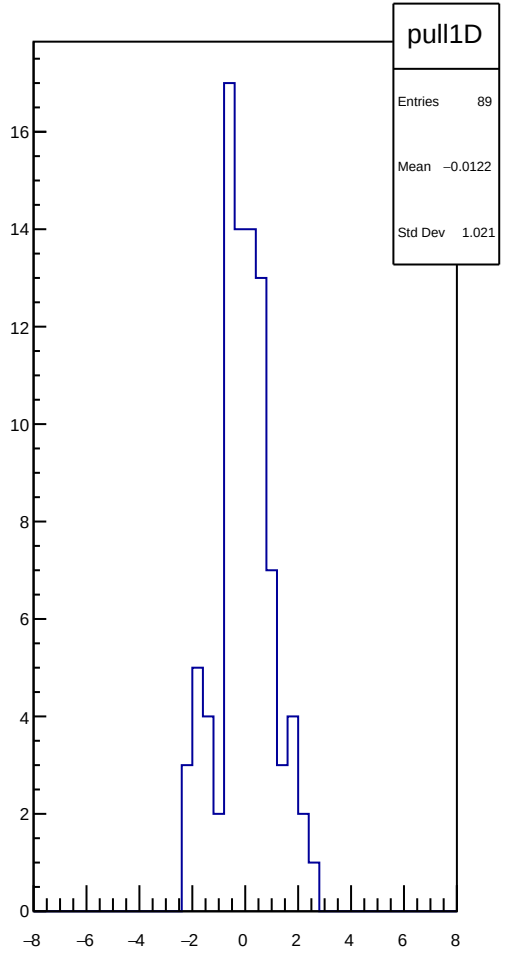

pull1D
Entries 89
Mean −0.01933
Std Dev 0.8944

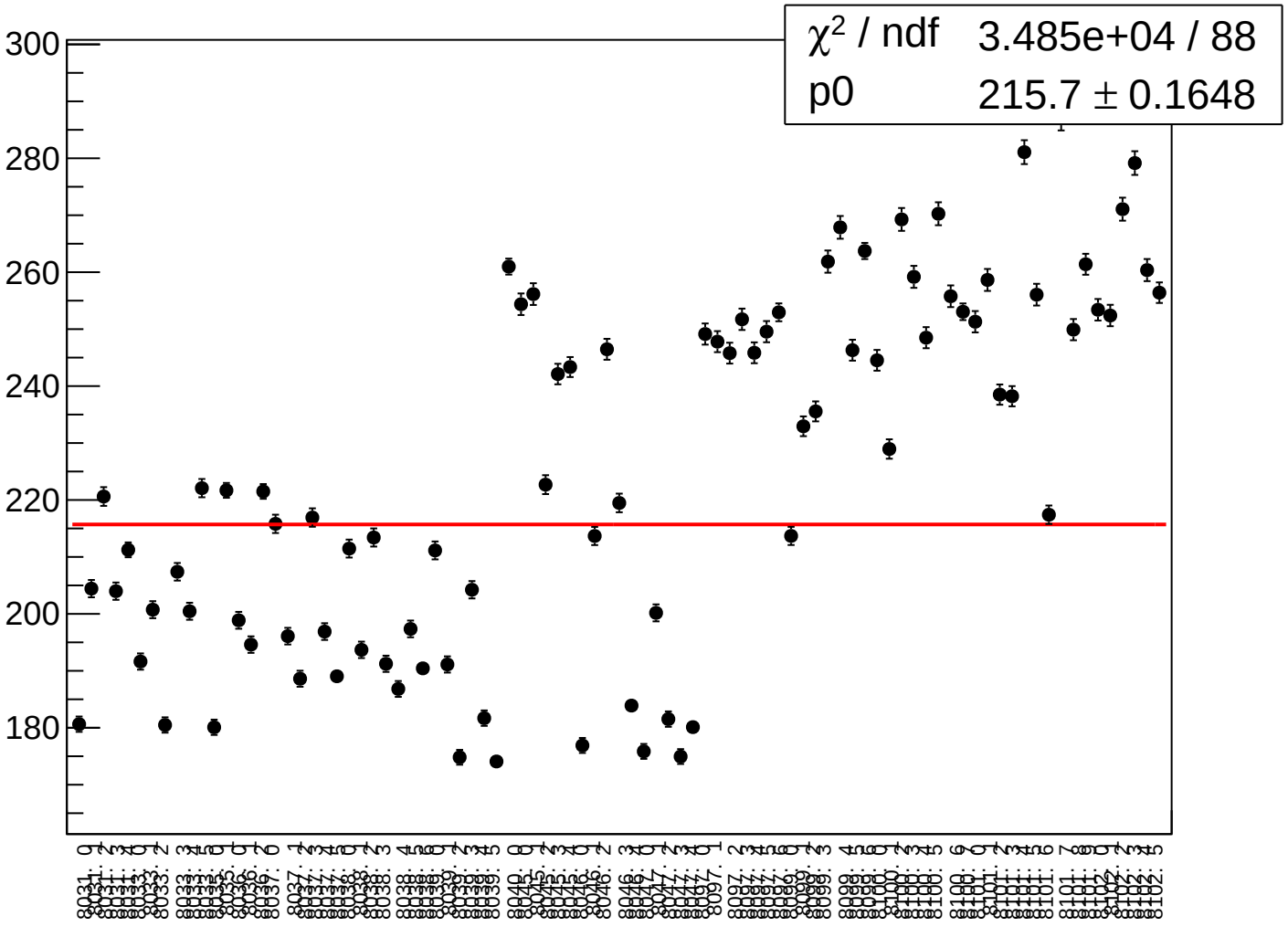

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.489e+04 / 88
p0 166.1 ± 0.1269
340
320
300
280
260
240
220
200
180
160
140

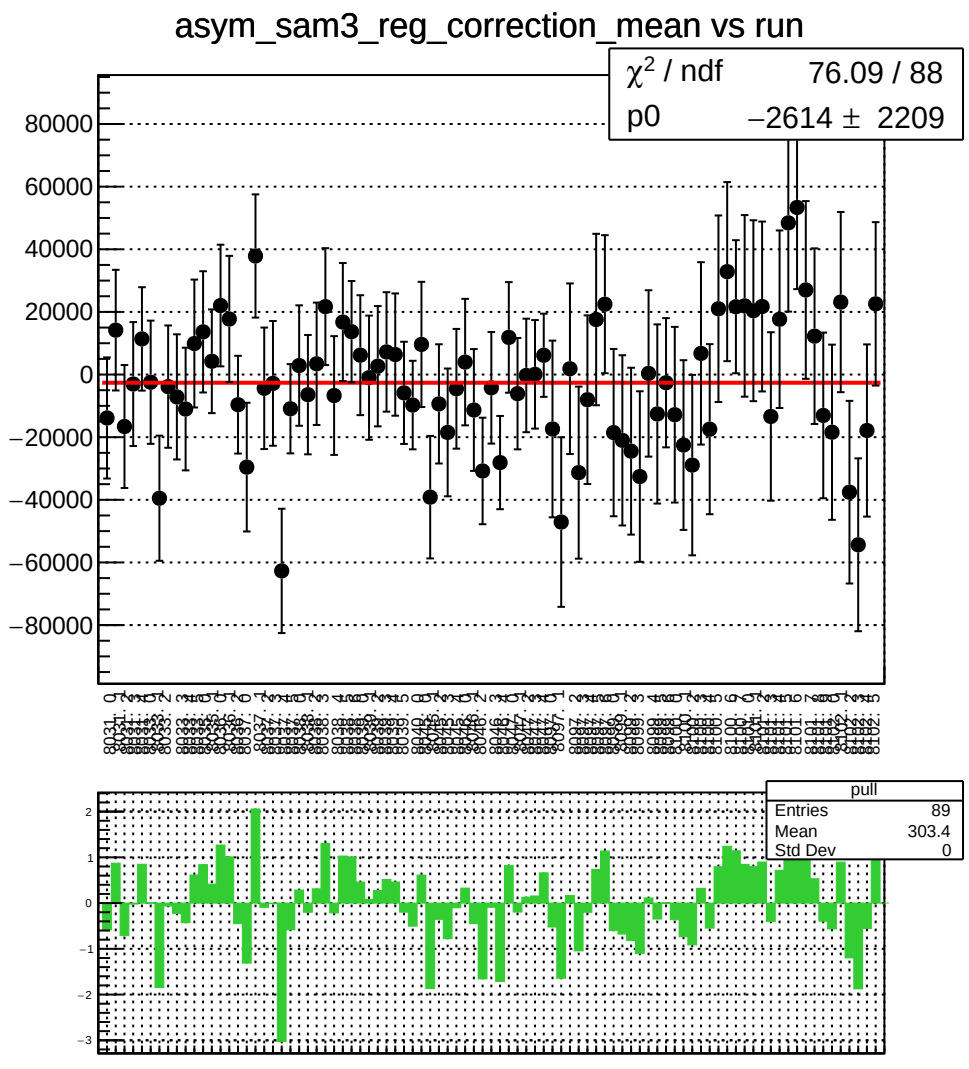

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79 / 88
p0 3.046e−13 ± 2.074e−13
pull
Entries 89
Mean −1.936
Std Dev 12.41
pull1D
Entries 89
Mean −0.04524
Std Dev 0.9411

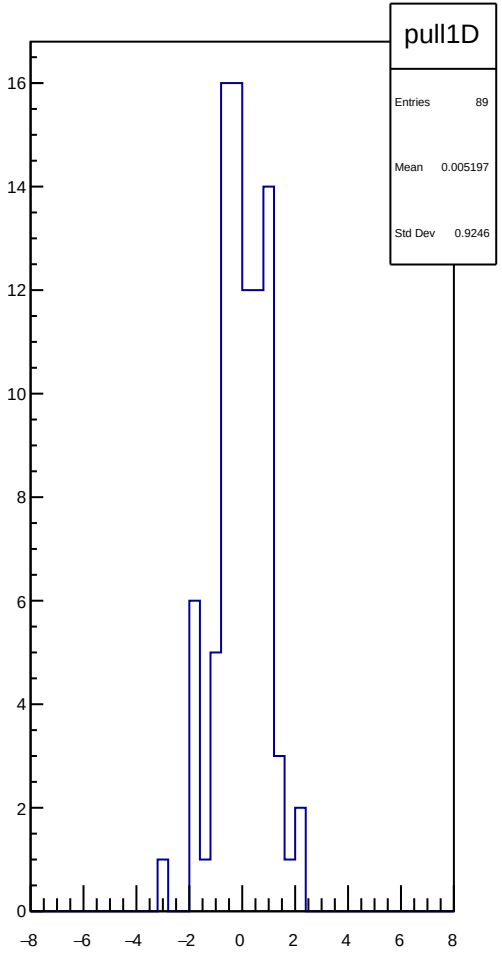

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.776e+05 / 88
p0 1.587e−10 ± 1.467e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

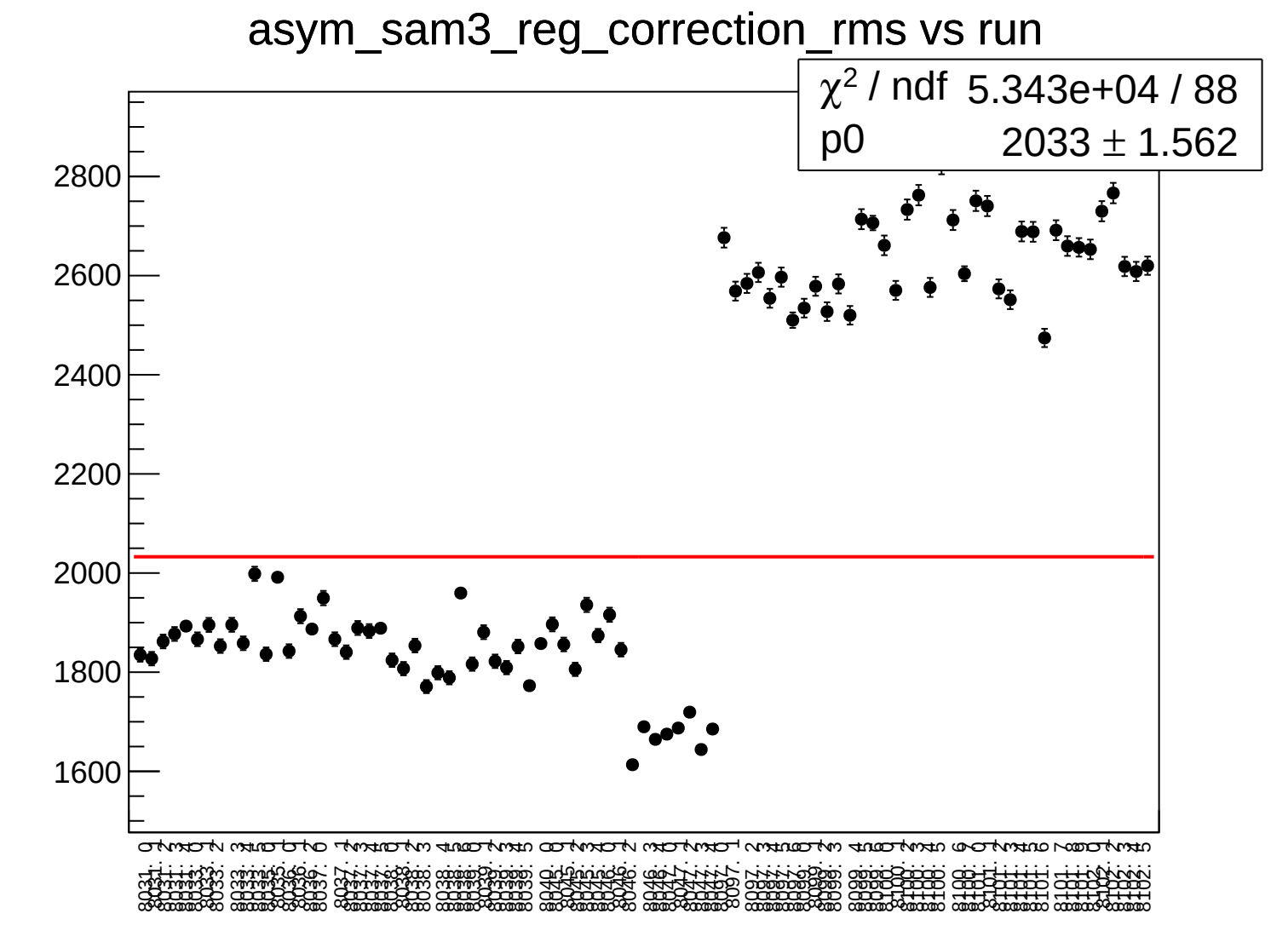

reg_asym_sam3_mean vs run
χ² / ndf 92.76 / 88
p0 −228.3 ± 233.1
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 259.9
Std Dev 0
2
1
0
−1
−2

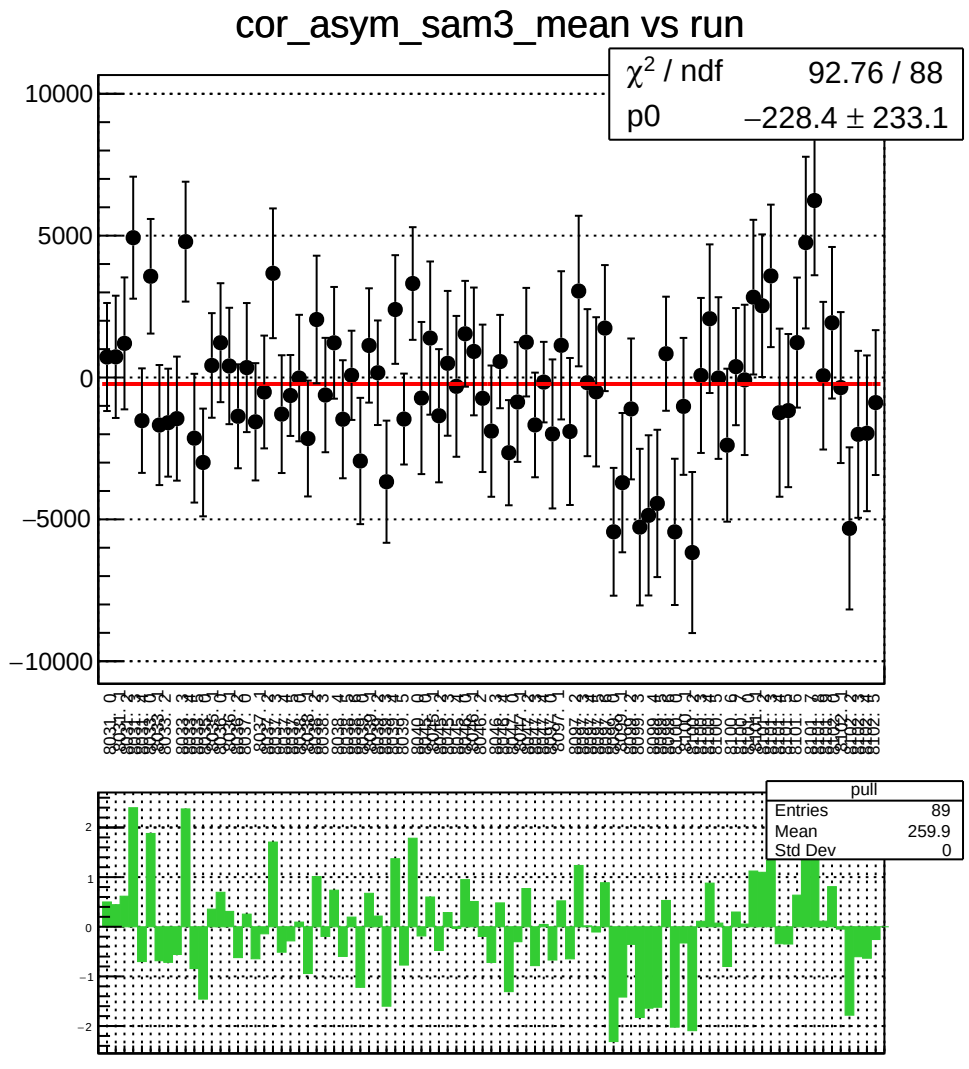

pull1D
Entries 89
Mean −0.0122
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

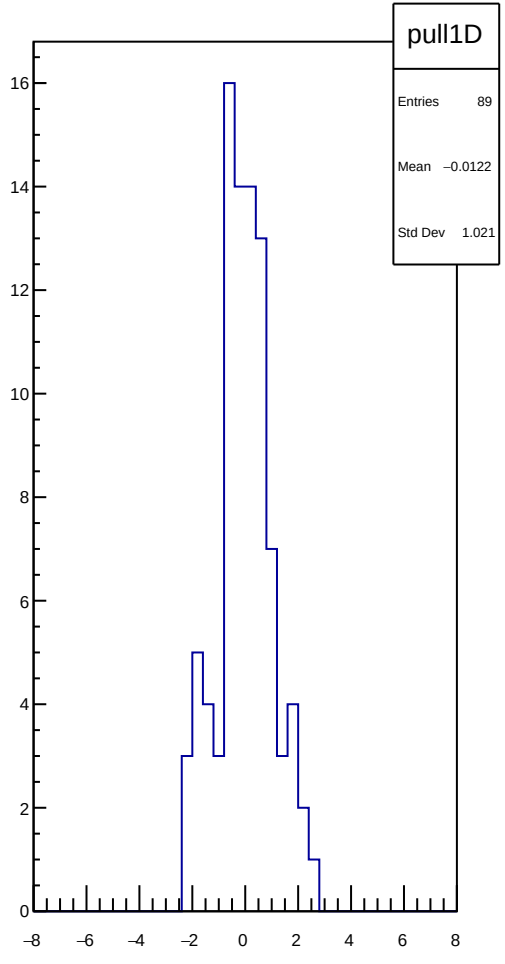

reg_asym_sam3_rms vs run
χ² / ndf 3.485e+04 / 88
p0 215.7 ± 0.1648
300
280
260
240
220
200
180

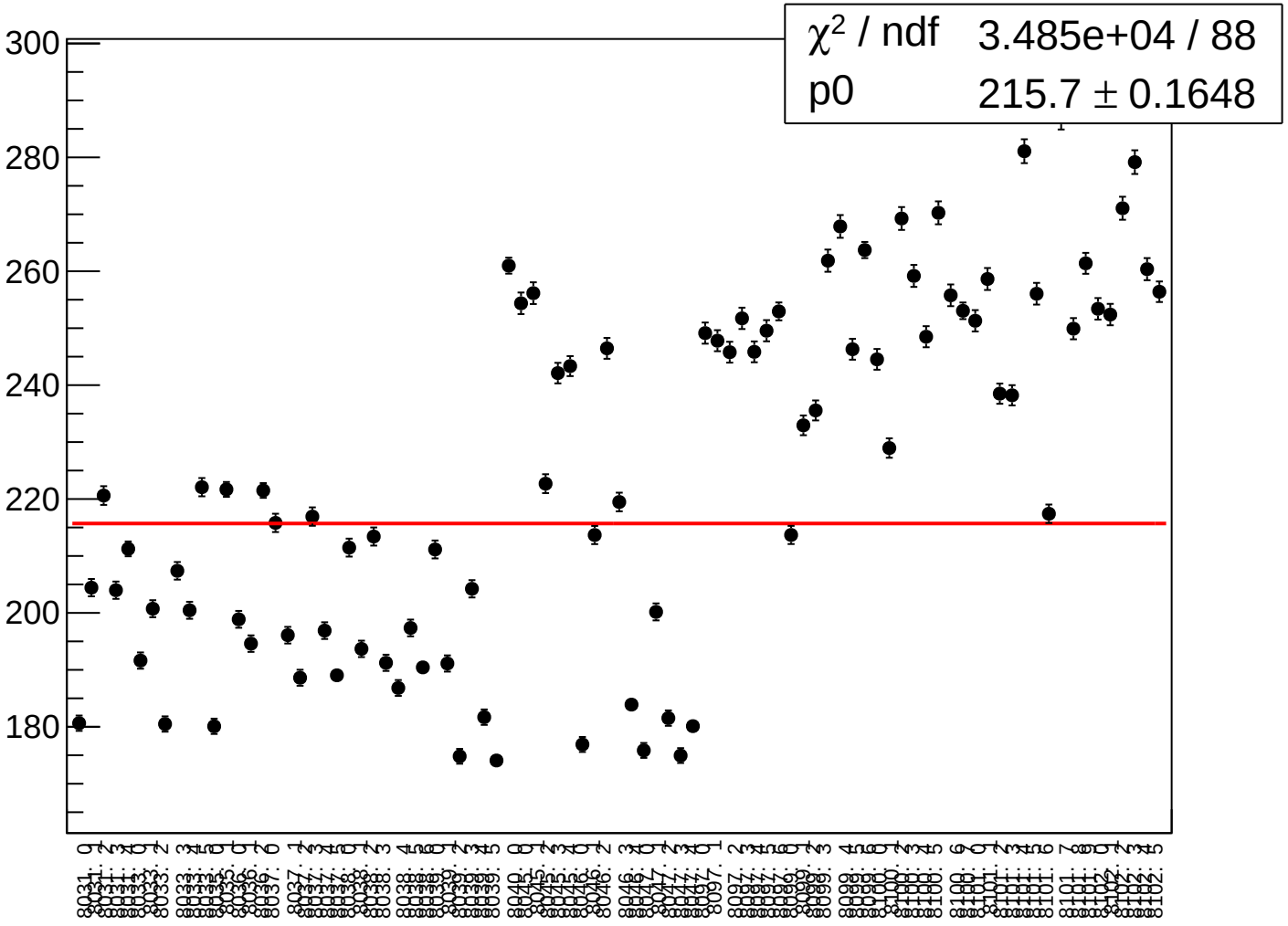

asym_sam3_reg_correction_mean vs run
χ² / ndf 76.09 / 88
p0 −2614 ± 2209
pull
Entries 89
Mean 303.4
Std Dev 0

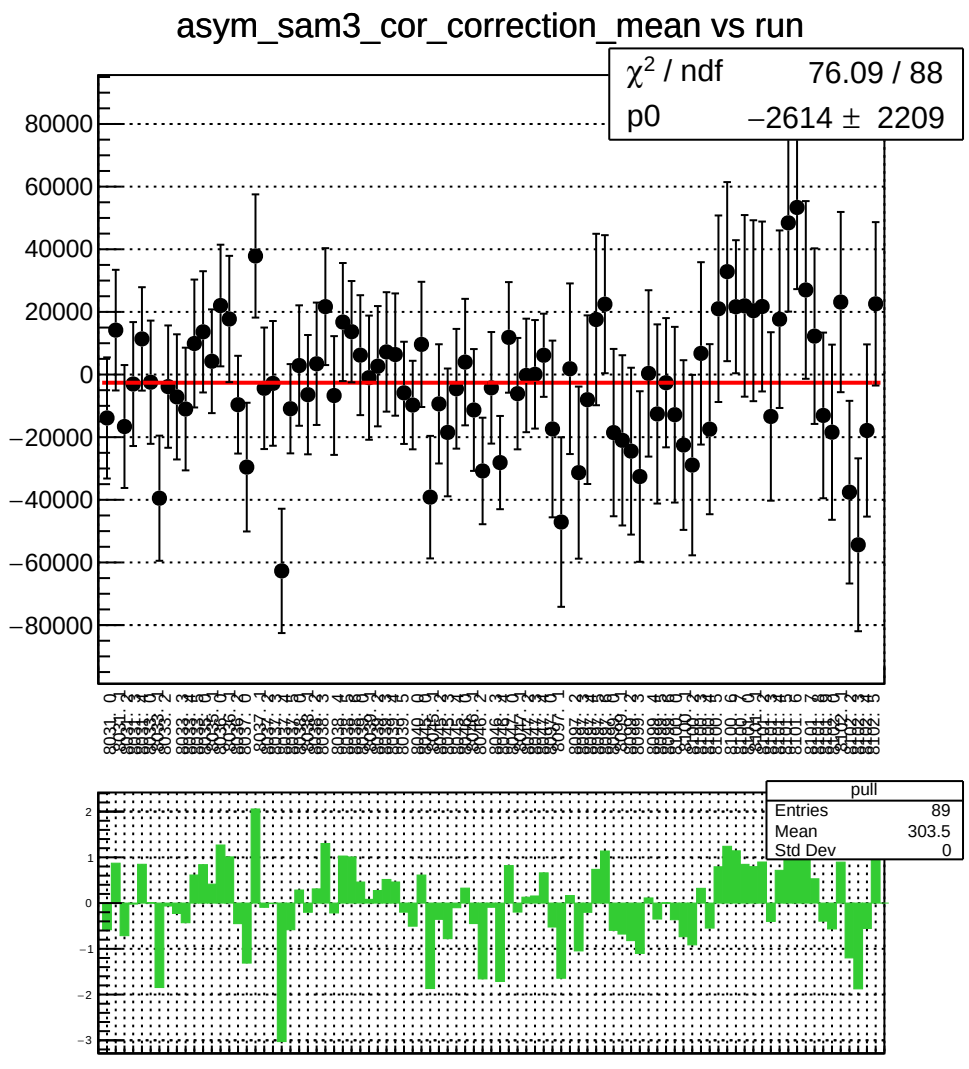

pull1D
Entries 89
Mean 0.005197
Std Dev 0.9246

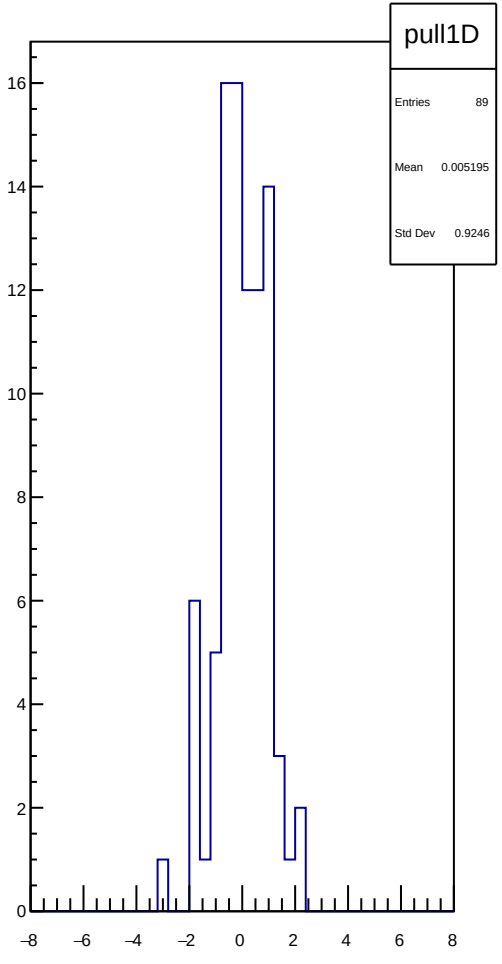

asym_sam3_reg_correction_rms vs run
χ² / ndf 5.343e+04 / 88
p0 2033 ± 1.562
2800
2600
2400
2200
2000
1800
1600

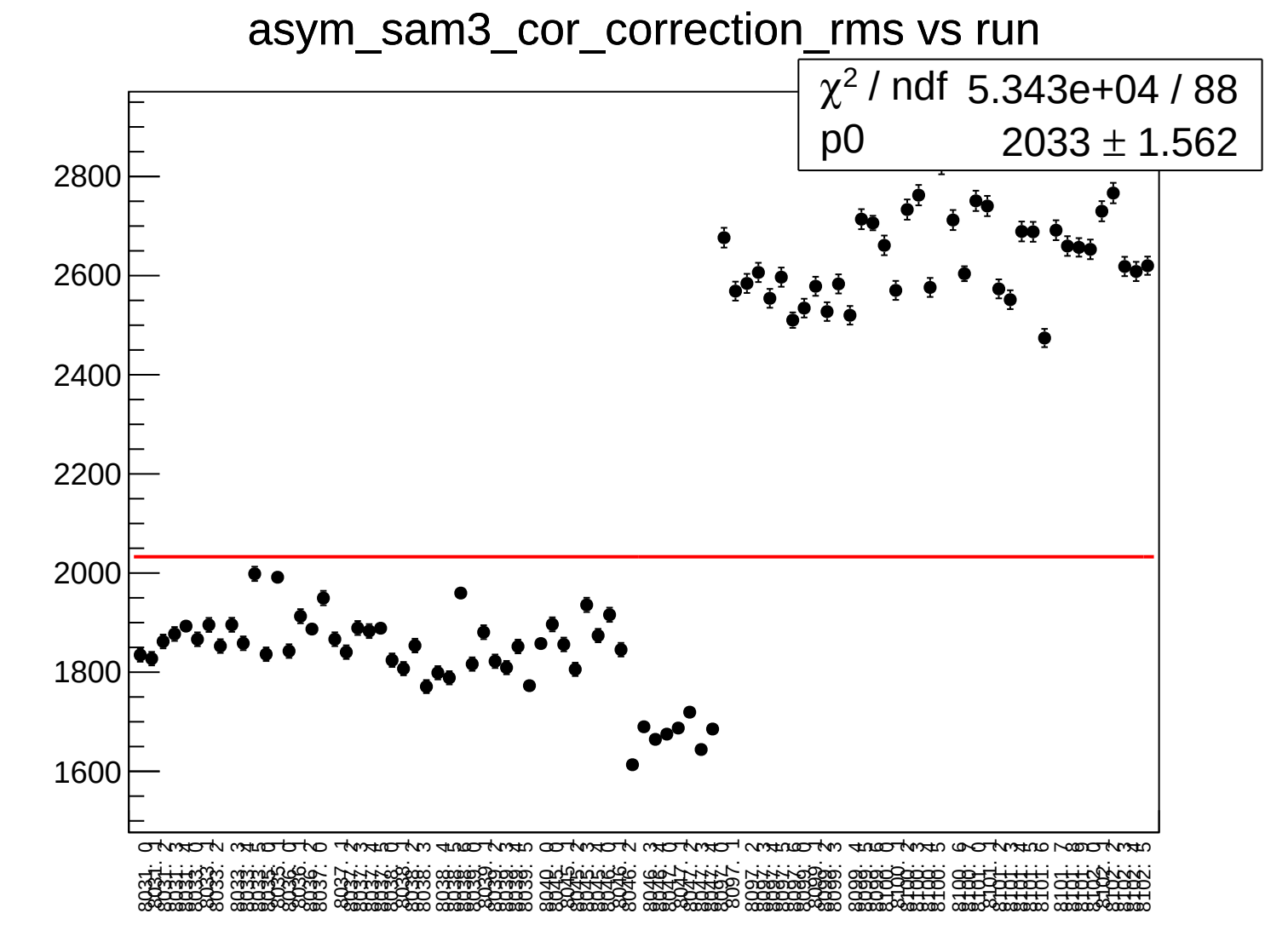

cor_asym_sam3_mean vs run
χ² / ndf 92.76 / 88
p0 −228.4 ± 233.1
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 259.9
Std Dev 0
2
1
0
−1
−2

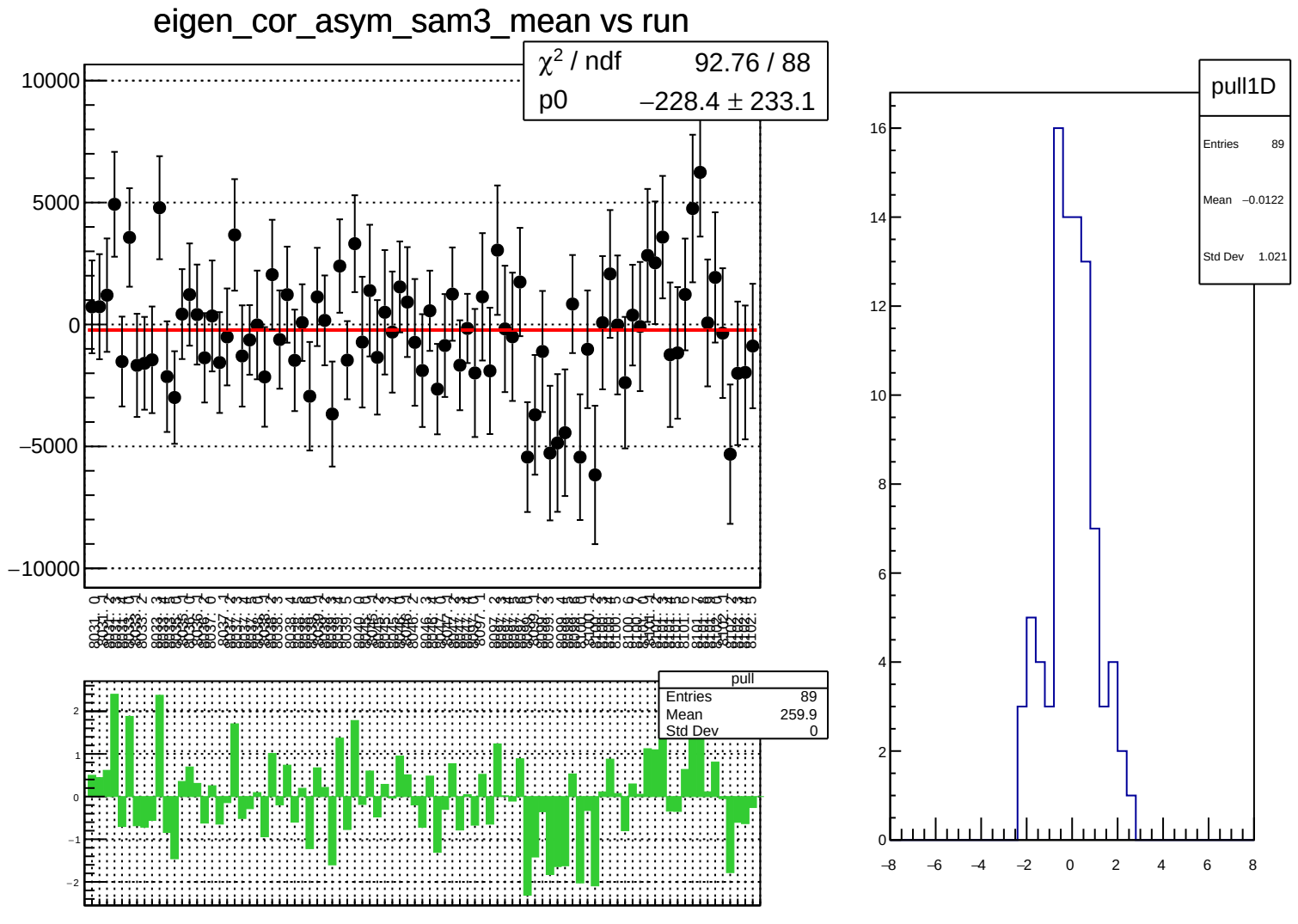

pull1D
Entries 89
Mean −0.0122
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

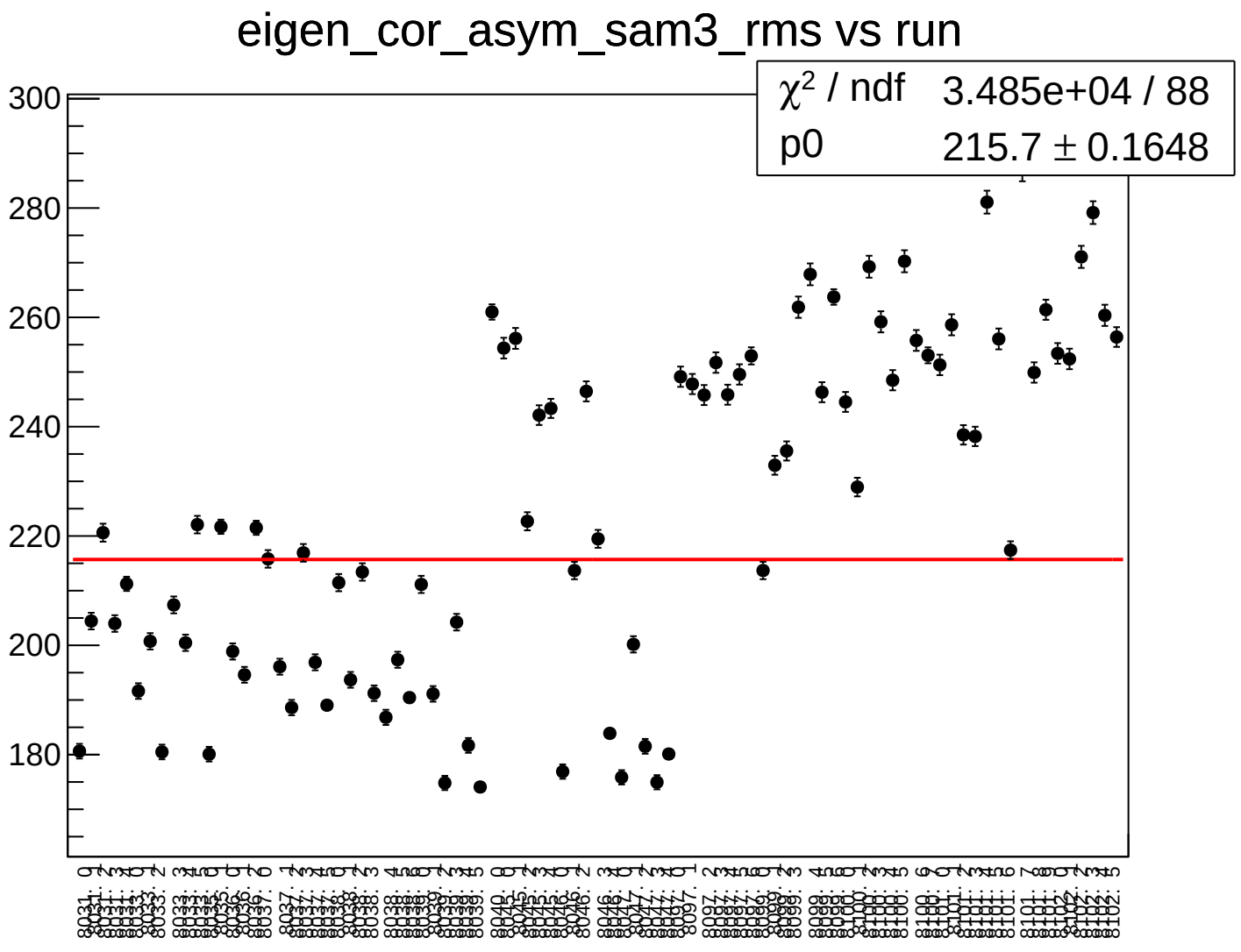

cor_asym_sam3_rms vs run
χ² / ndf 3.485e+04 / 88
p0 215.7 ± 0.1648
300
280
260
240
220
200
180

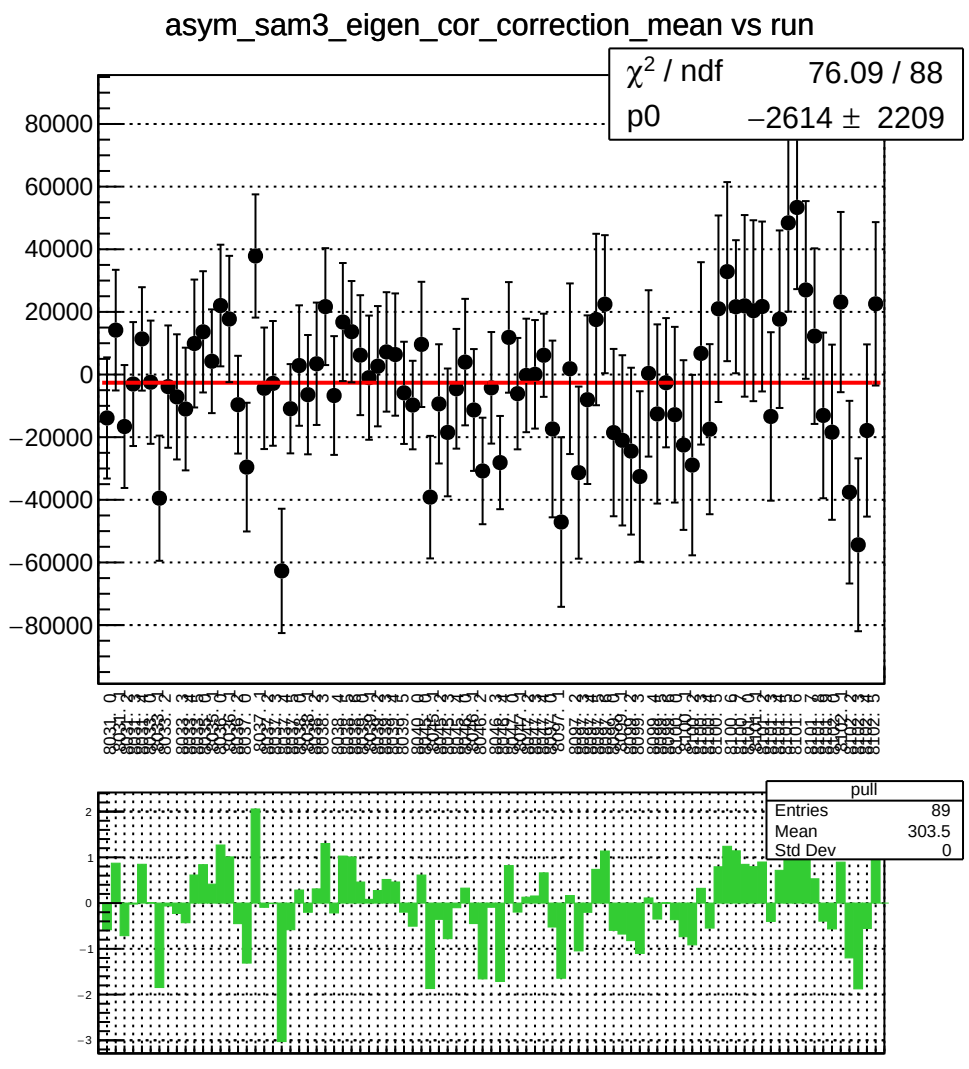

asym_sam3_cor_correction_mean vs run
χ² / ndf 76.09 / 88
p0 −2614 ± 2209
pull
Entries 89
Mean 303.5
Std Dev 0

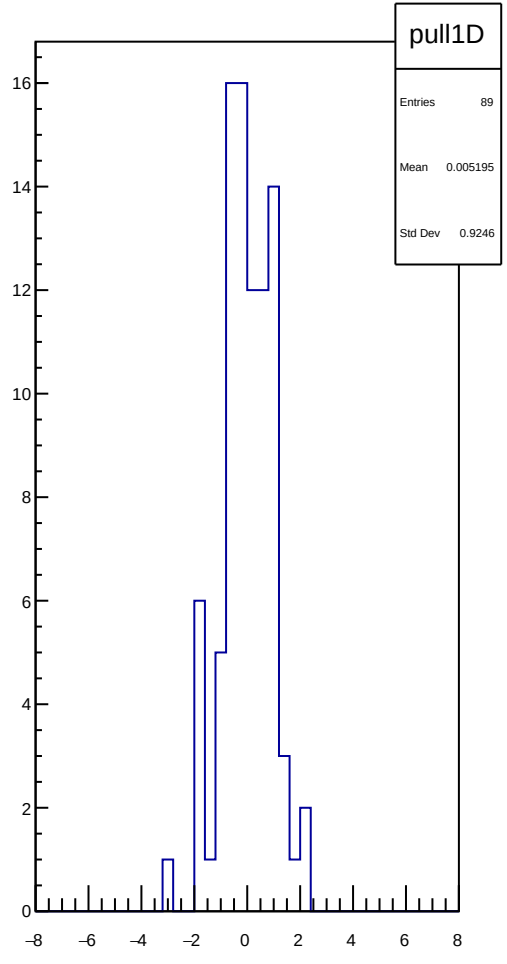

pull1D
Entries 89
Mean 0.005195
Std Dev 0.9246

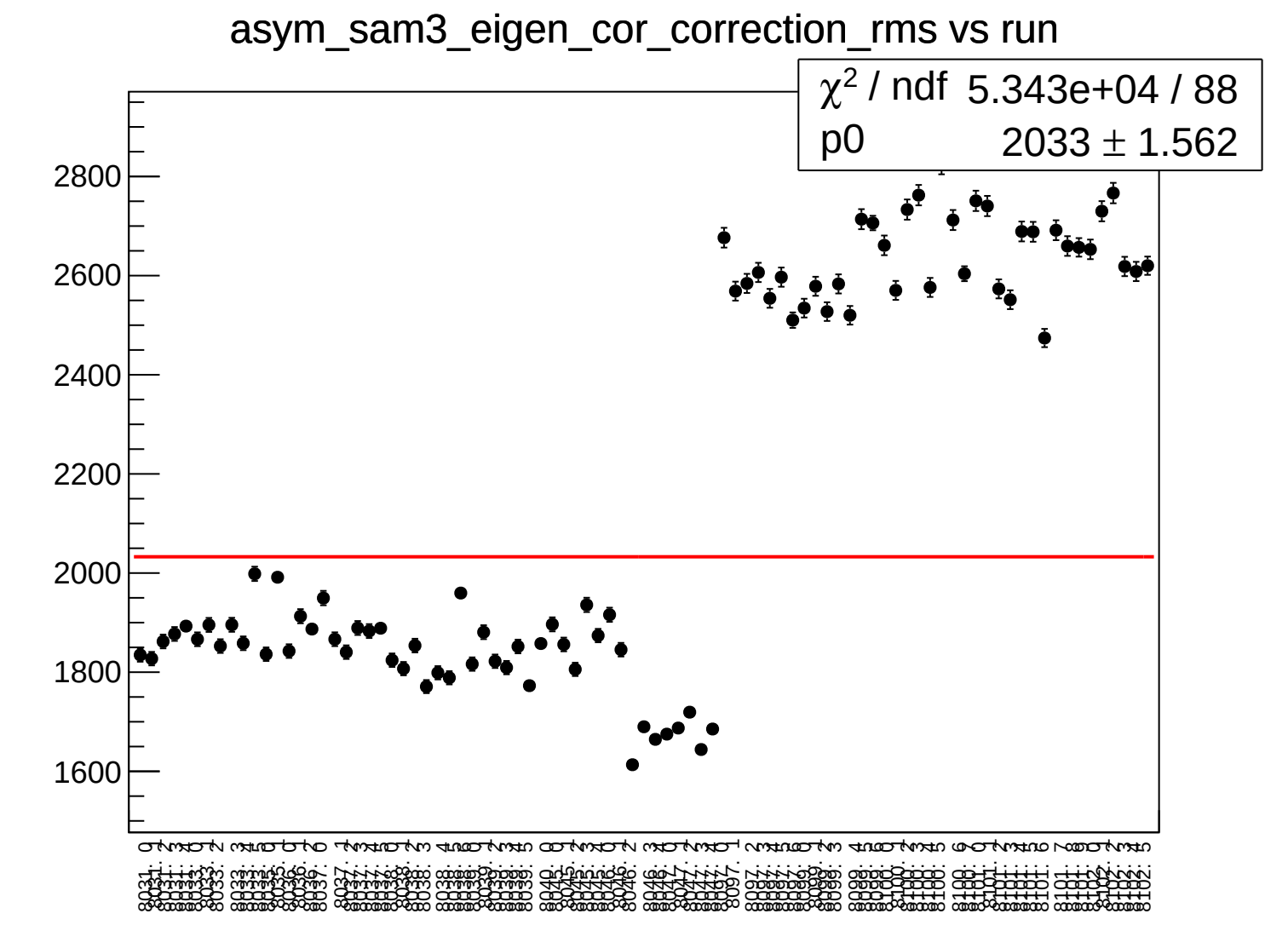

asym_sam3_cor_correction_rms vs run
χ² / ndf 5.343e+04 / 88
p0 2033 ± 1.562
2800
2600
2400
2200
2000
1800
1600

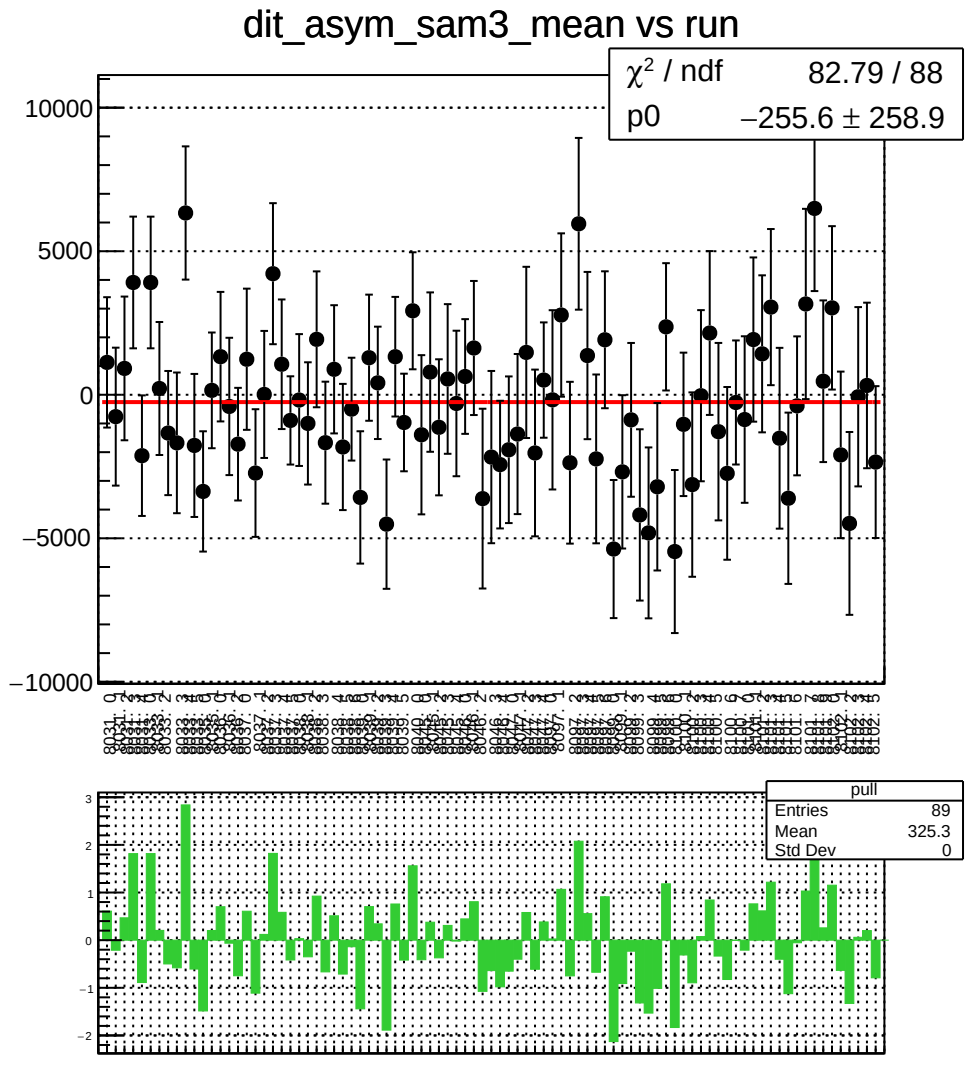

eigen_cor_asym_sam3_mean vs run
χ² / ndf 92.76 / 88
p0 −228.4 ± 233.1
pull
Entries 89
Mean 259.9
Std Dev 0
pull1D
Entries 89
Mean −0.0122
Std Dev 1.021

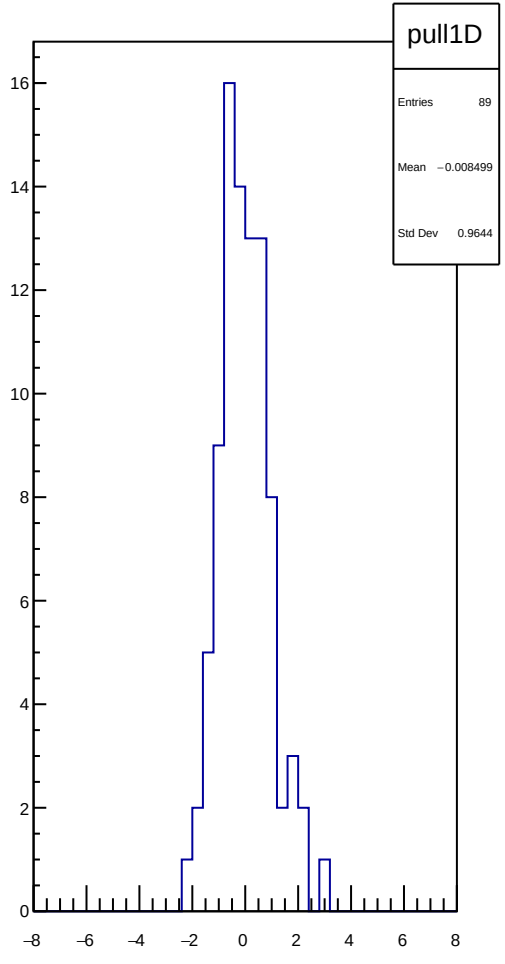

eigen_cor_asym_sam3_rms vs run
χ² / ndf 3.485e+04 / 88
p0 215.7 ± 0.1648
300
280
260
240
220
200
180

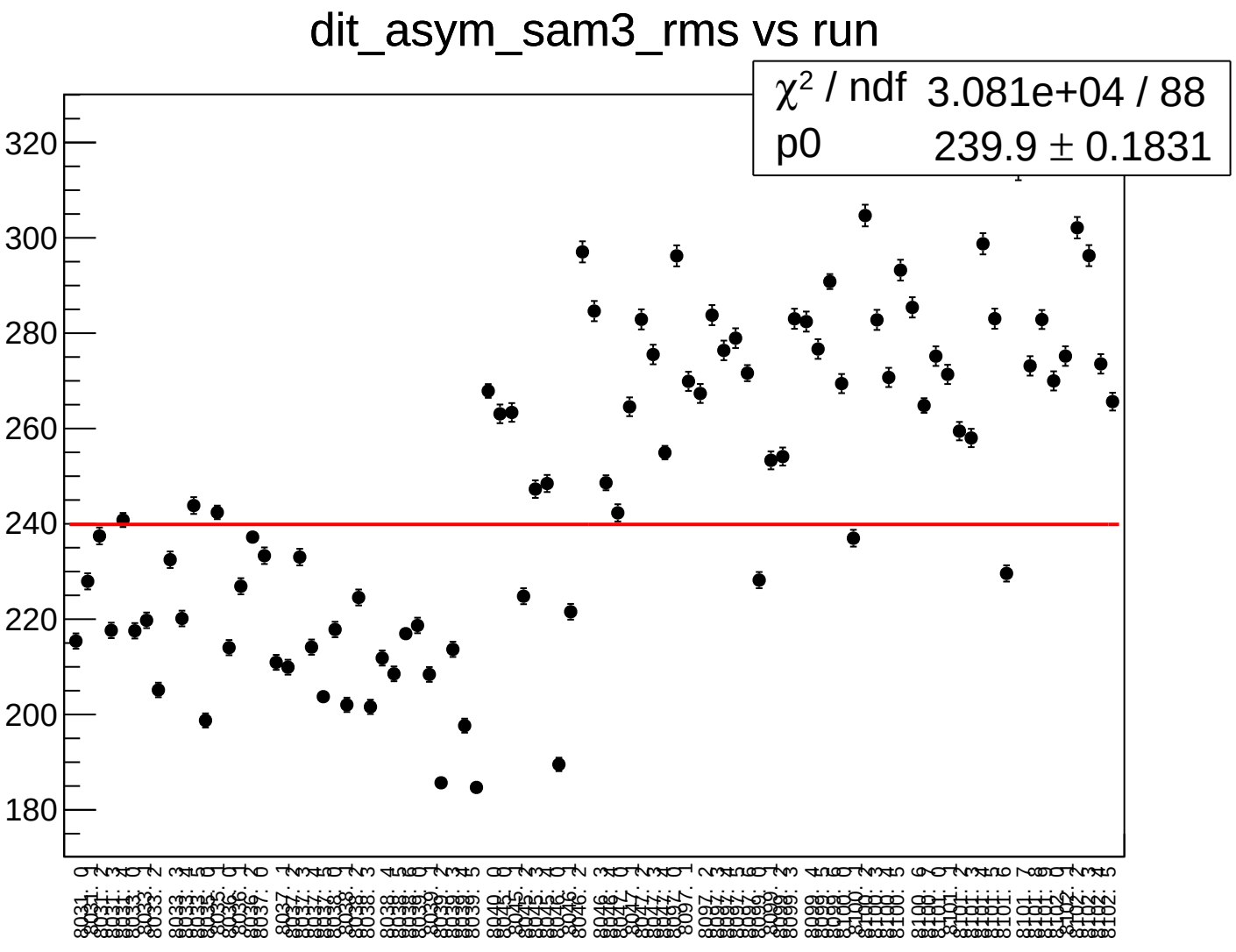

asym_sam3_eigen_cor_correction_mean vs run
χ² / ndf 76.09 / 88
p0 −2614 ± 2209
pull
Entries 89
Mean 303.5
Std Dev 0

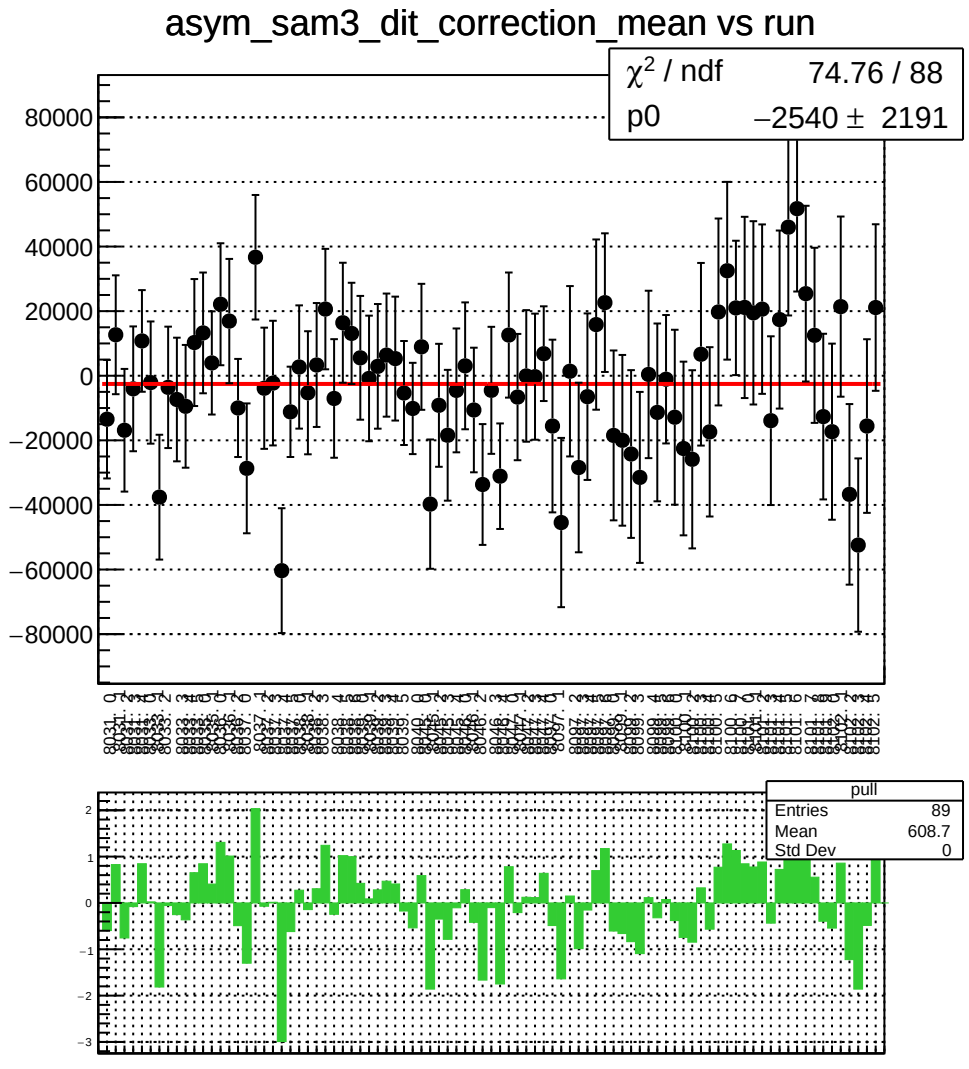

pull1D
Entries 89
Mean 0.005195
Std Dev 0.9246

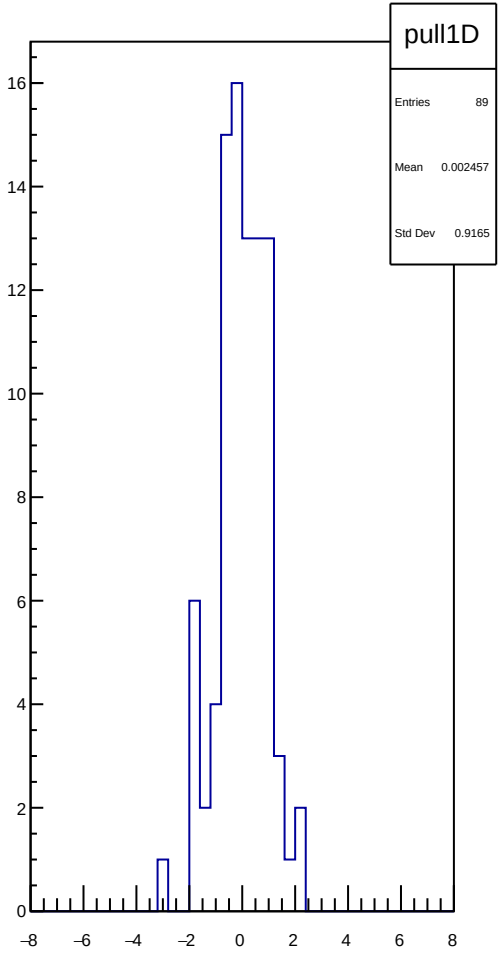

asym_sam3_eigen_cor_correction_rms vs run
χ² / ndf 5.343e+04 / 88
p0 2033 ± 1.562
2800
2600
2400
2200
2000
1800
1600

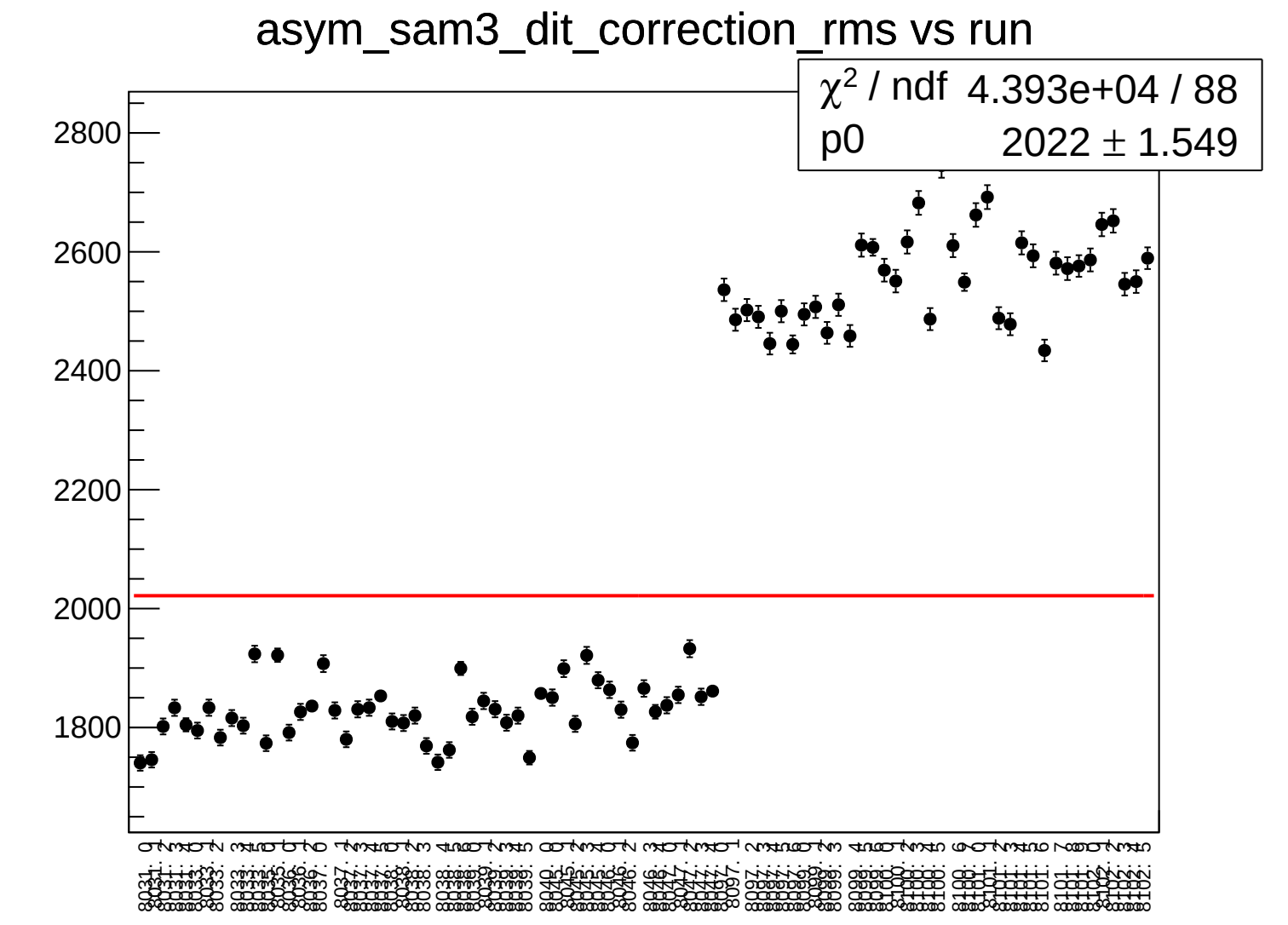

dit_asym_sam3_mean vs run
χ² / ndf 82.79 / 88
p0 −255.6 ± 258.9
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 325.3
Std Dev 0
3
2
1
0
−1
−2

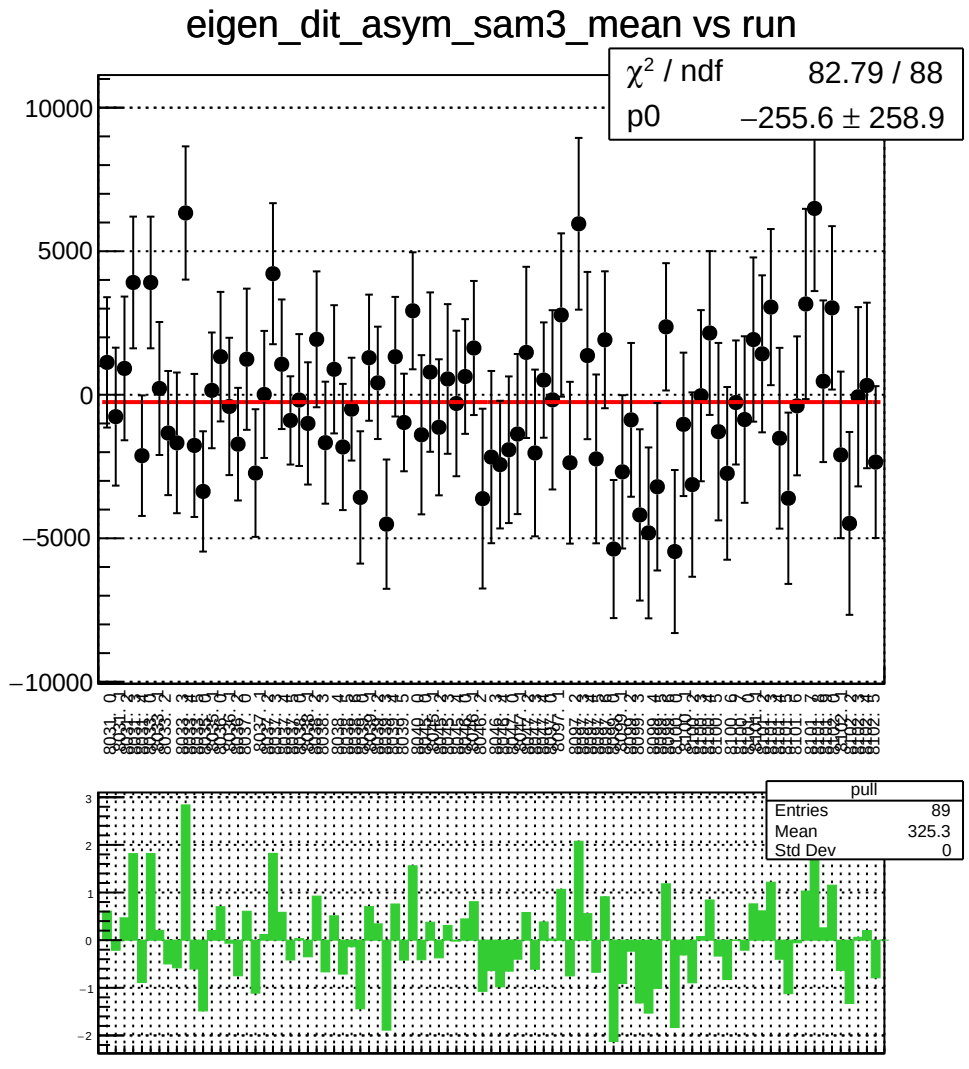

pull1D
Entries 89
Mean −0.008499
Std Dev 0.9644
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

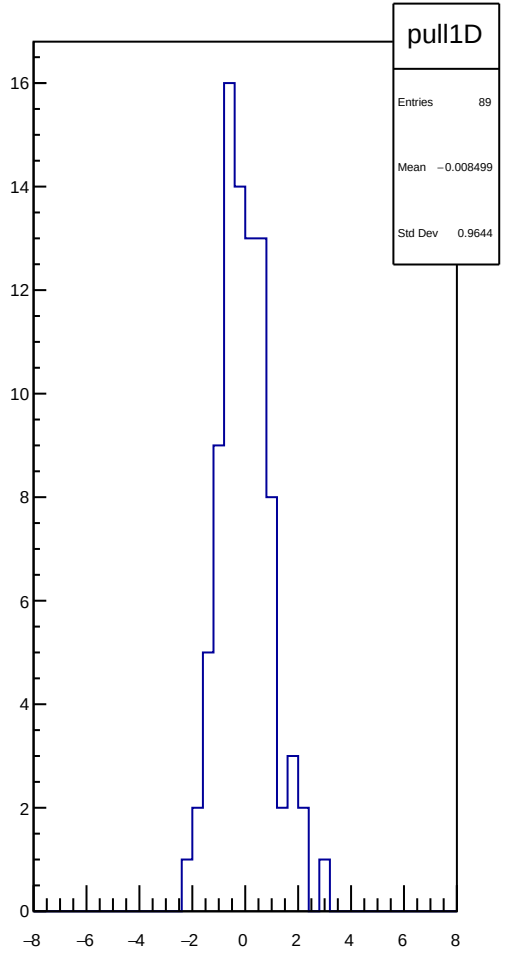

dit_asym_sam3_rms vs run
χ² / ndf 3.081e+04 / 88
p0 239.9 ± 0.1831
320
300
280
260
240
220
200
180

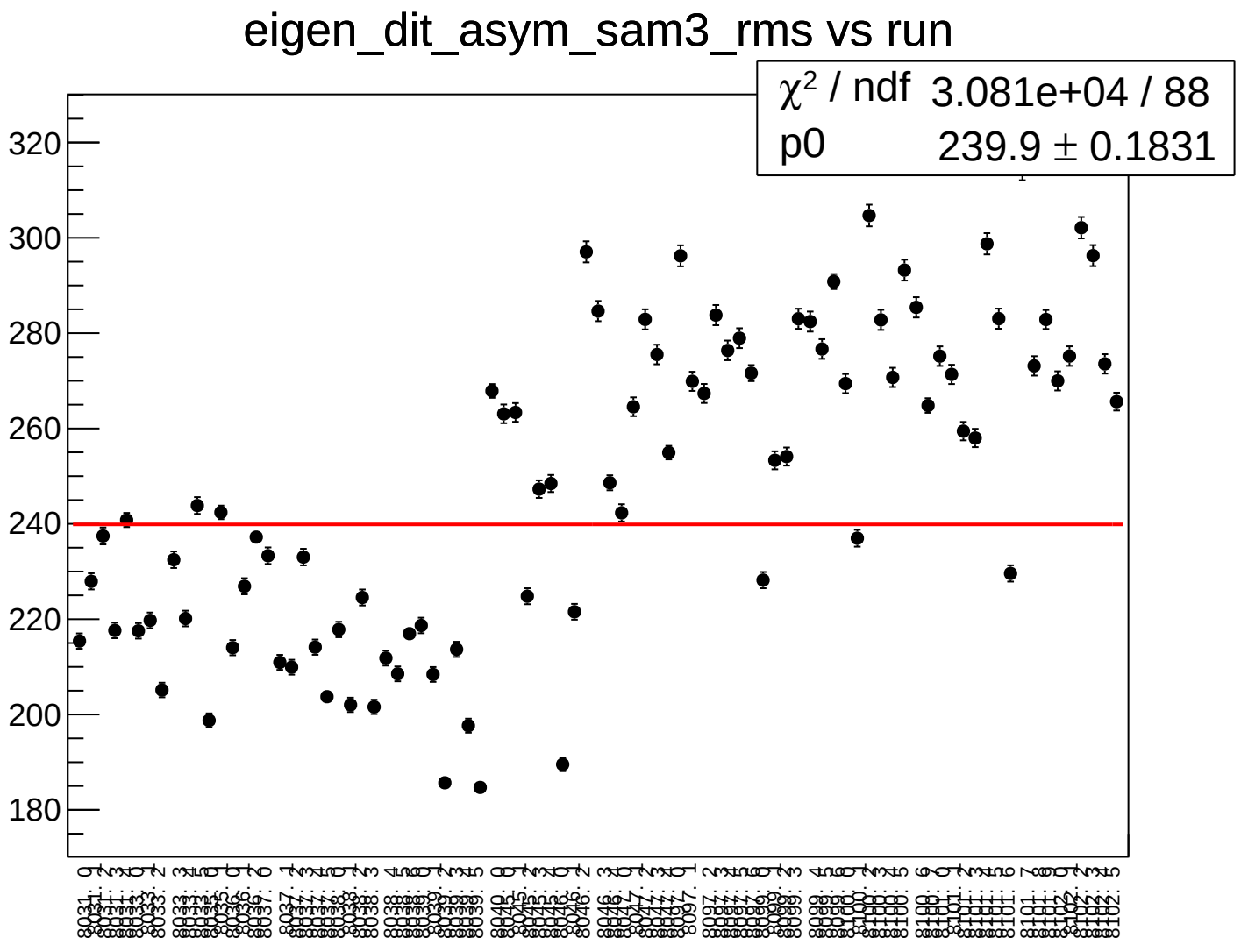

asym_sam3_dit_correction_mean vs run
χ² / ndf 74.76 / 88
p0 −2540 ± 2191
pull
Entries 89
Mean 608.7
Std Dev 0

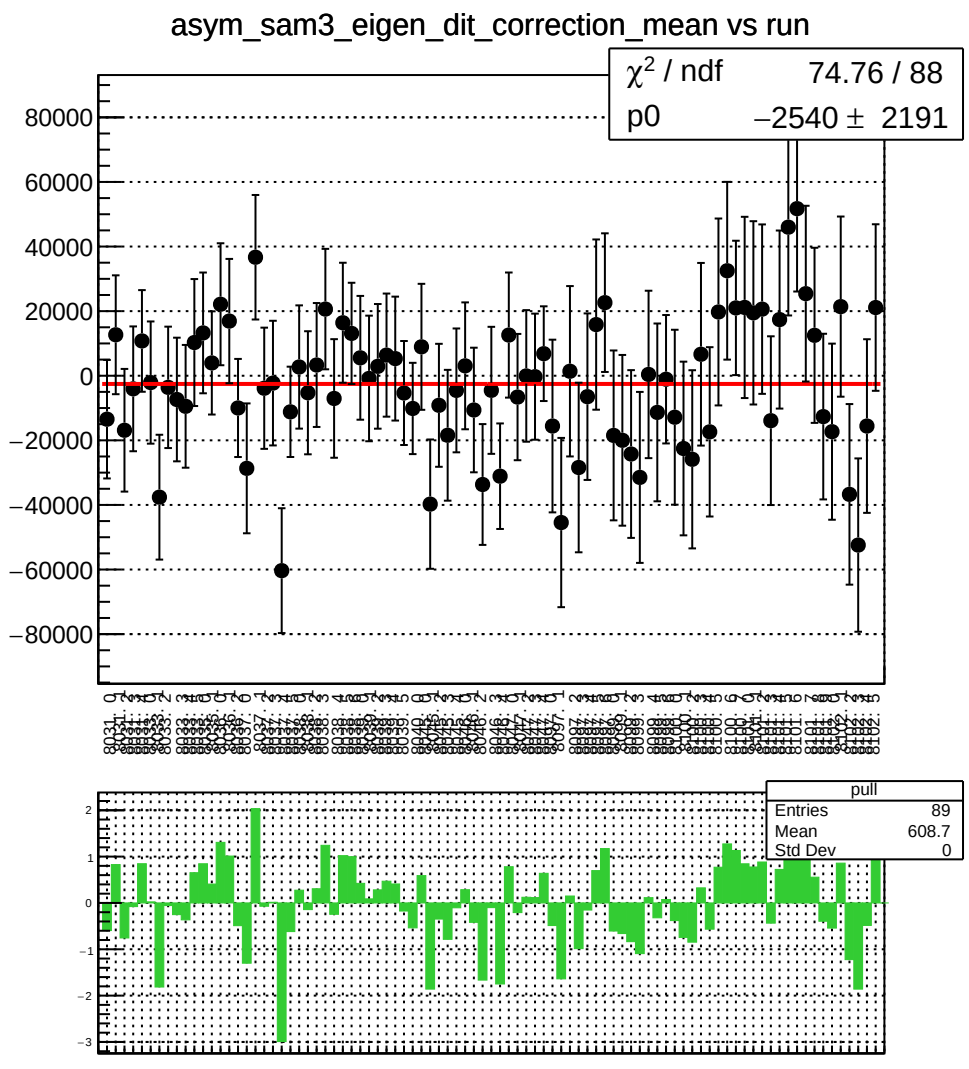

pull1D
Entries 89
Mean 0.002457
Std Dev 0.9165

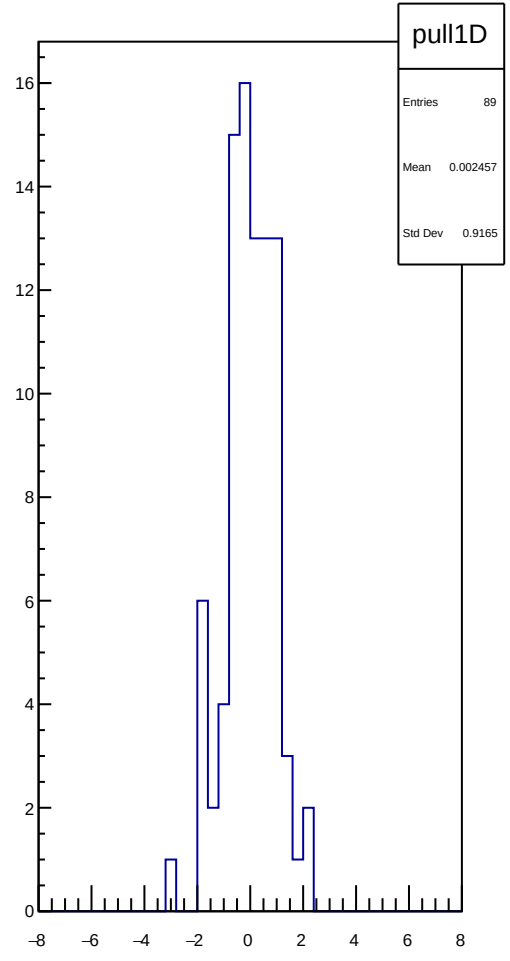

asym_sam3_dit_correction_rms vs run
χ² / ndf 4.393e+04 / 88
p0 2022 ± 1.549
2800
2600
2400
2200
2000
1800

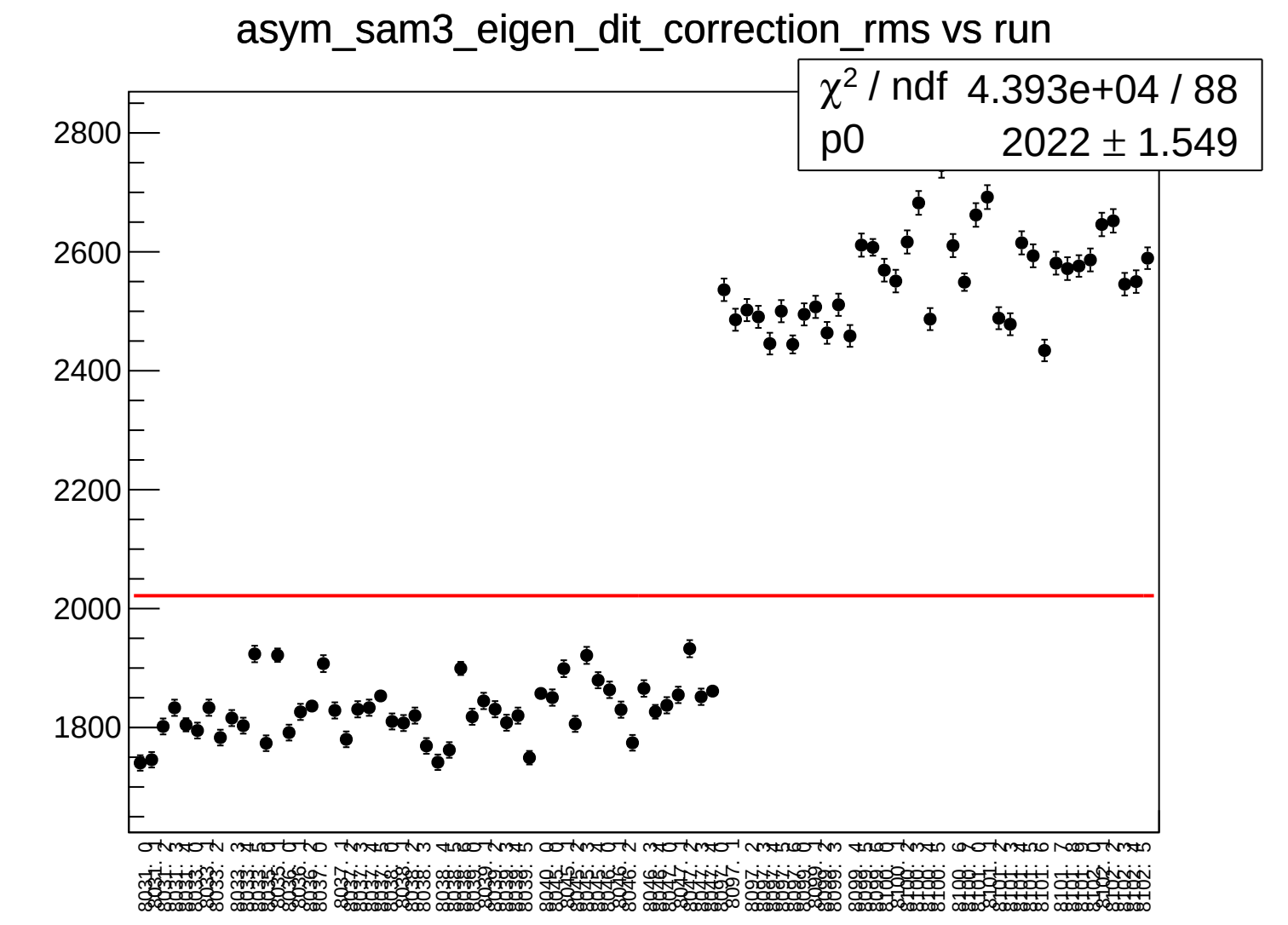

eigen_dit_asym_sam3_mean vs run
χ² / ndf 82.79 / 88
p0 −255.6 ± 258.9
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 325.3
Std Dev 0
3
2
1
0
−1
−2

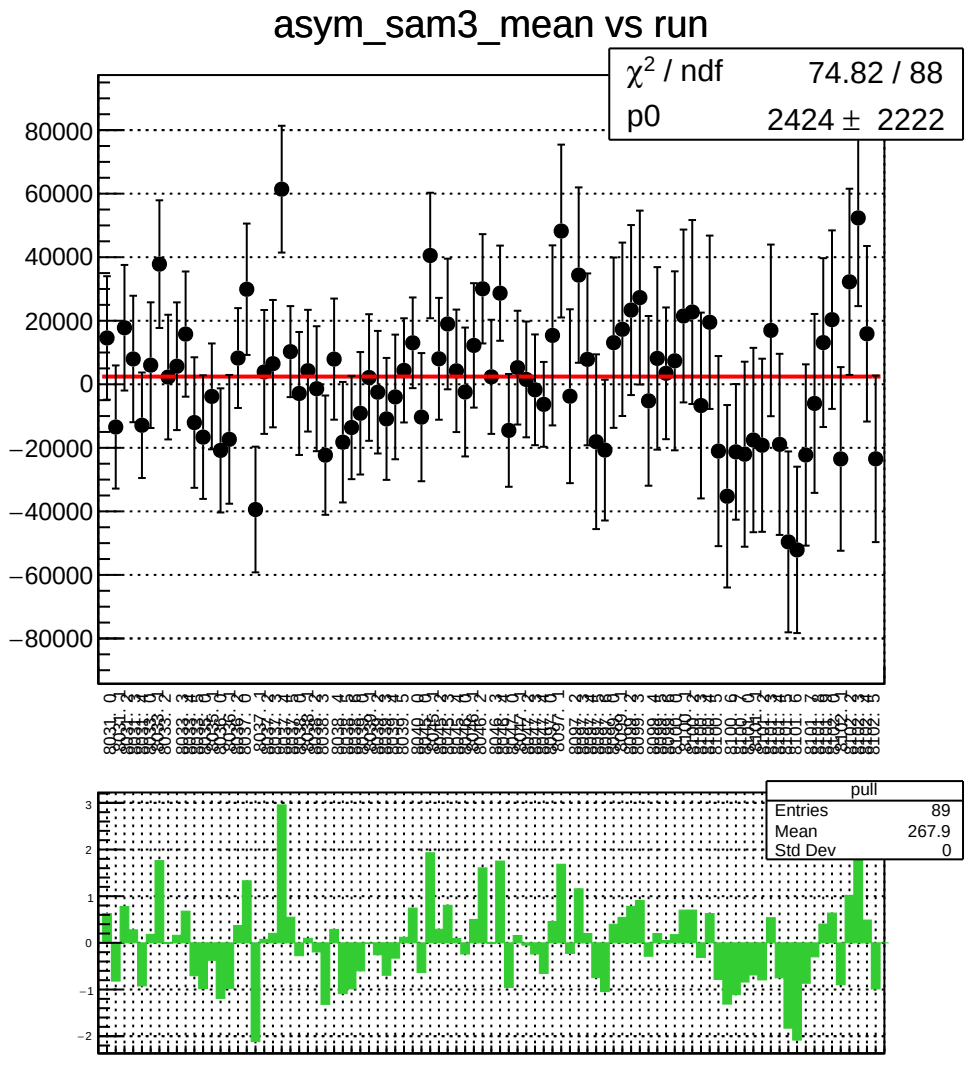

pull1D
Entries 89
Mean −0.008499
Std Dev 0.9644
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

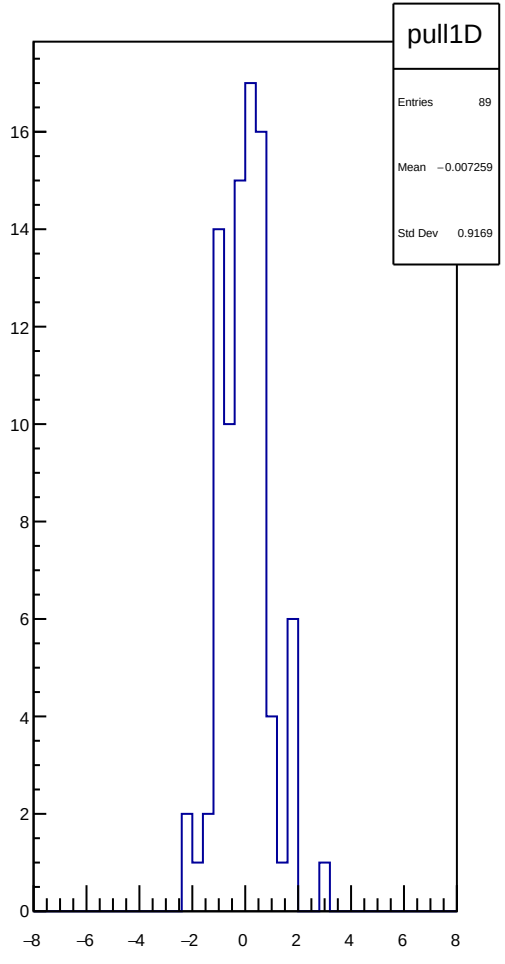

eigen_dit_asym_sam3_rms vs run
χ² / ndf 3.081e+04 / 88
p0 239.9 ± 0.1831
320
300
280
260
240
220
200
180

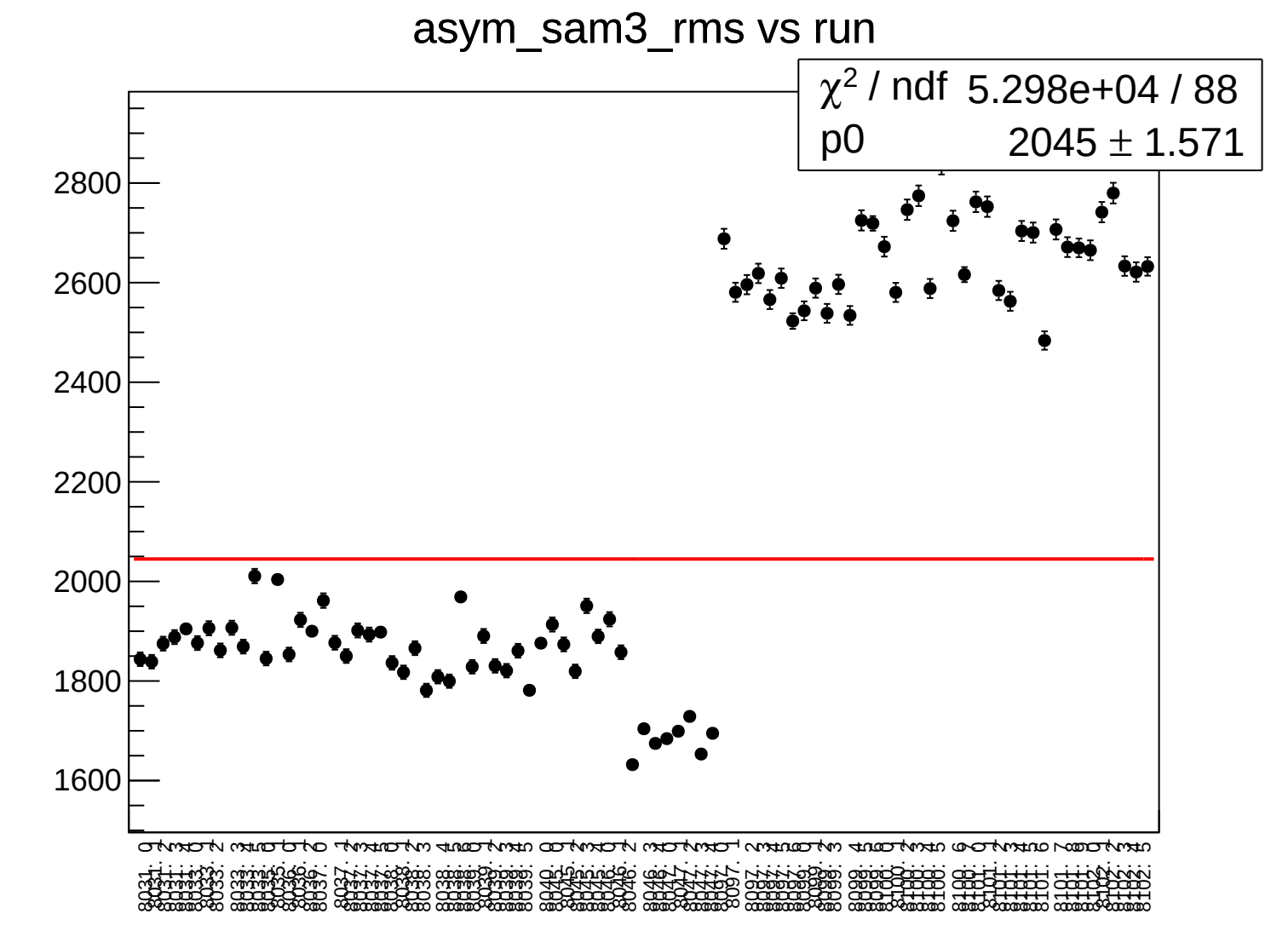

asym_sam3_eigen_dit_correction_mean vs run
χ² / ndf 74.76 / 88
p0 −2540 ± 2191
pull
Entries 89
Mean 608.7
Std Dev 0

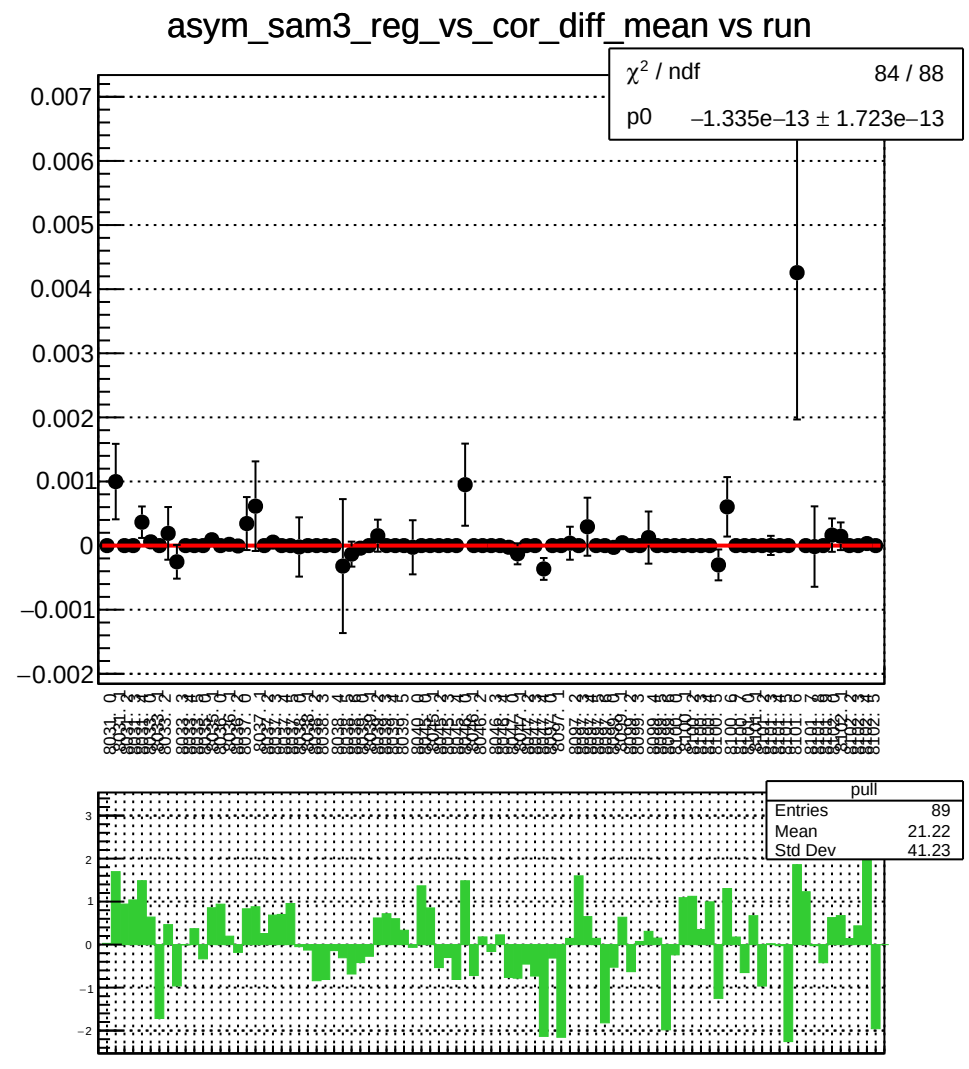

pull1D
Entries 89
Mean 0.002457
Std Dev 0.9165

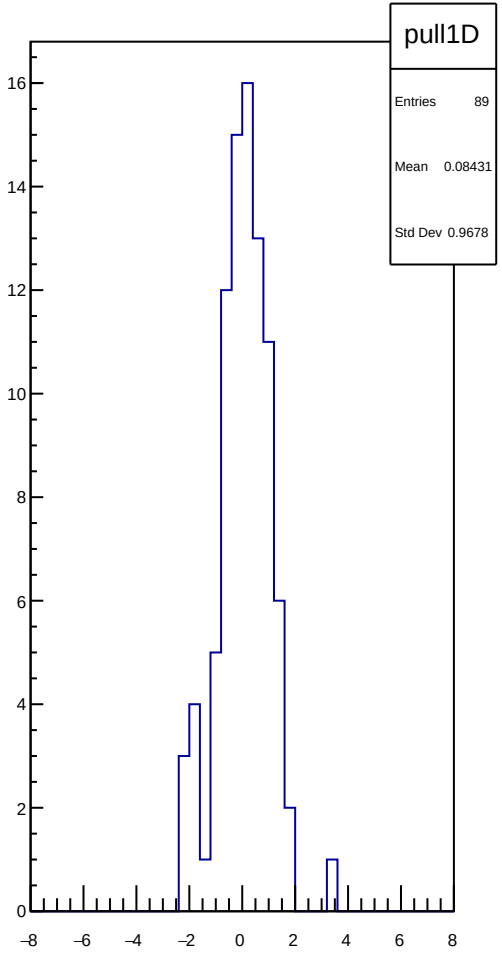

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 4.393e+04 / 88
p0 2022 ± 1.549
2800
2600
2400
2200
2000
1800

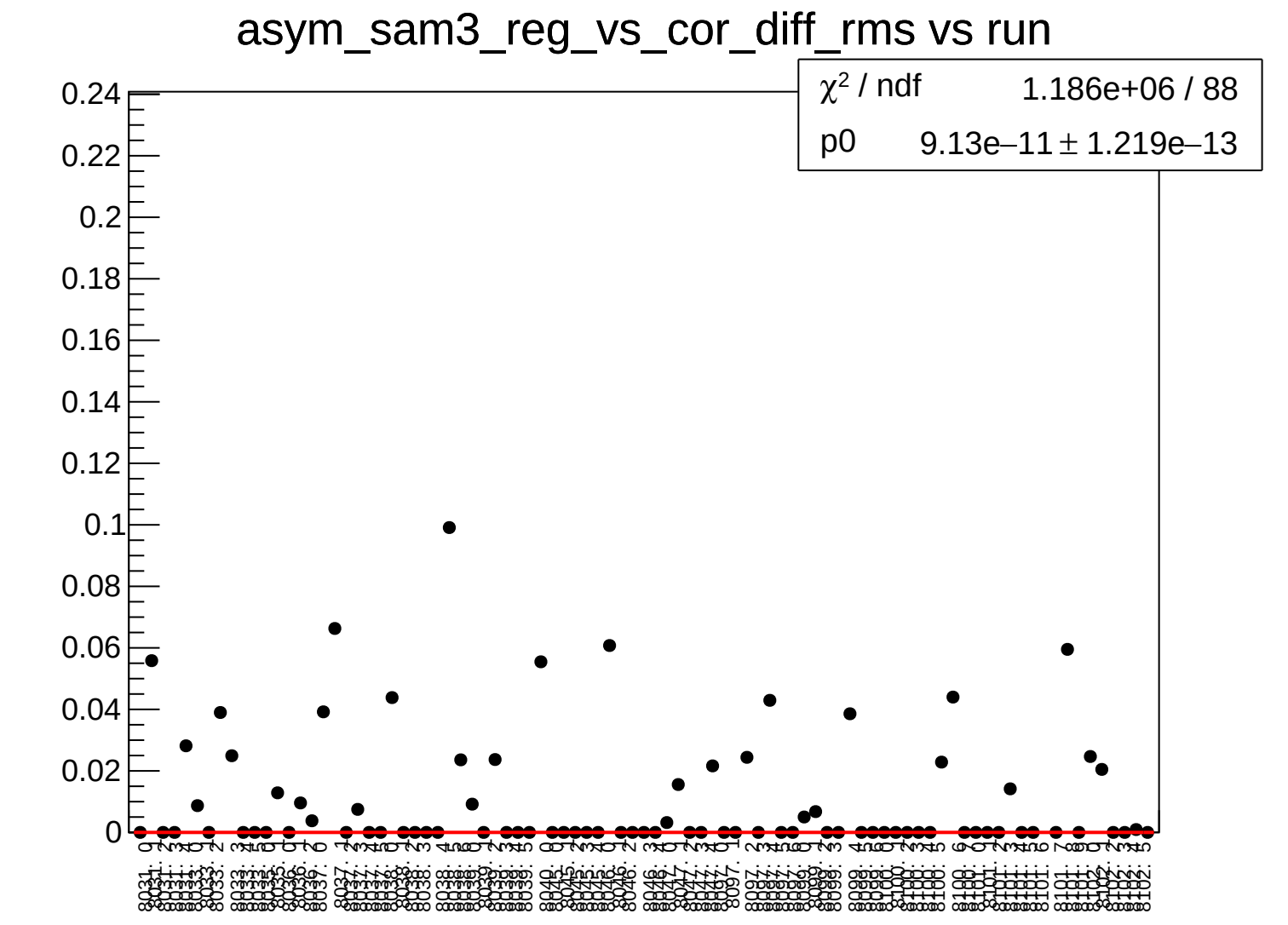

asym_sam3_mean vs run
χ² / ndf 74.82 / 88
p0 2424 ± 2222
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 267.9
Std Dev 0
3
2
1
0
−1
−2

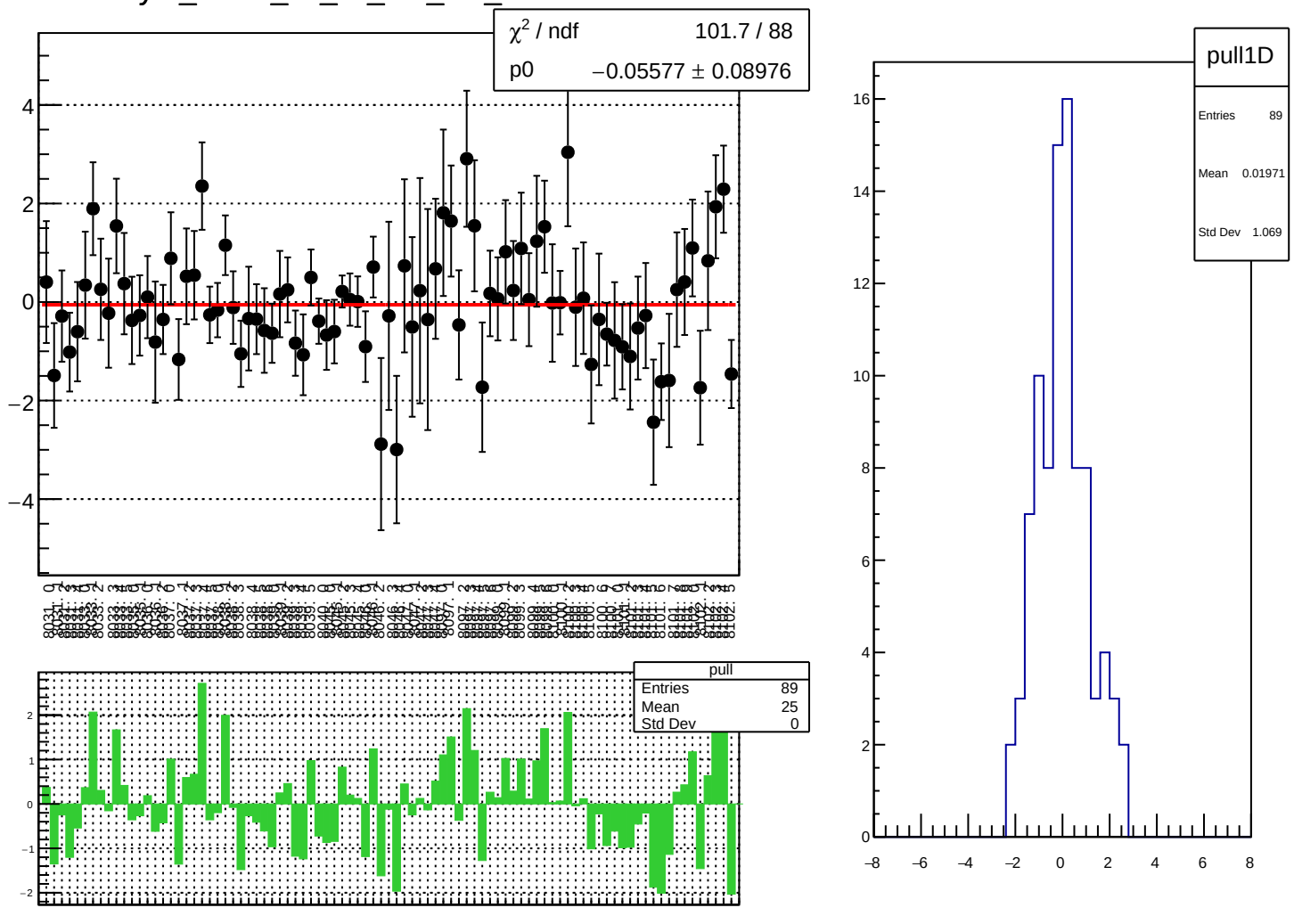

pull1D
Entries 89
Mean −0.007259
Std Dev 0.9169
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

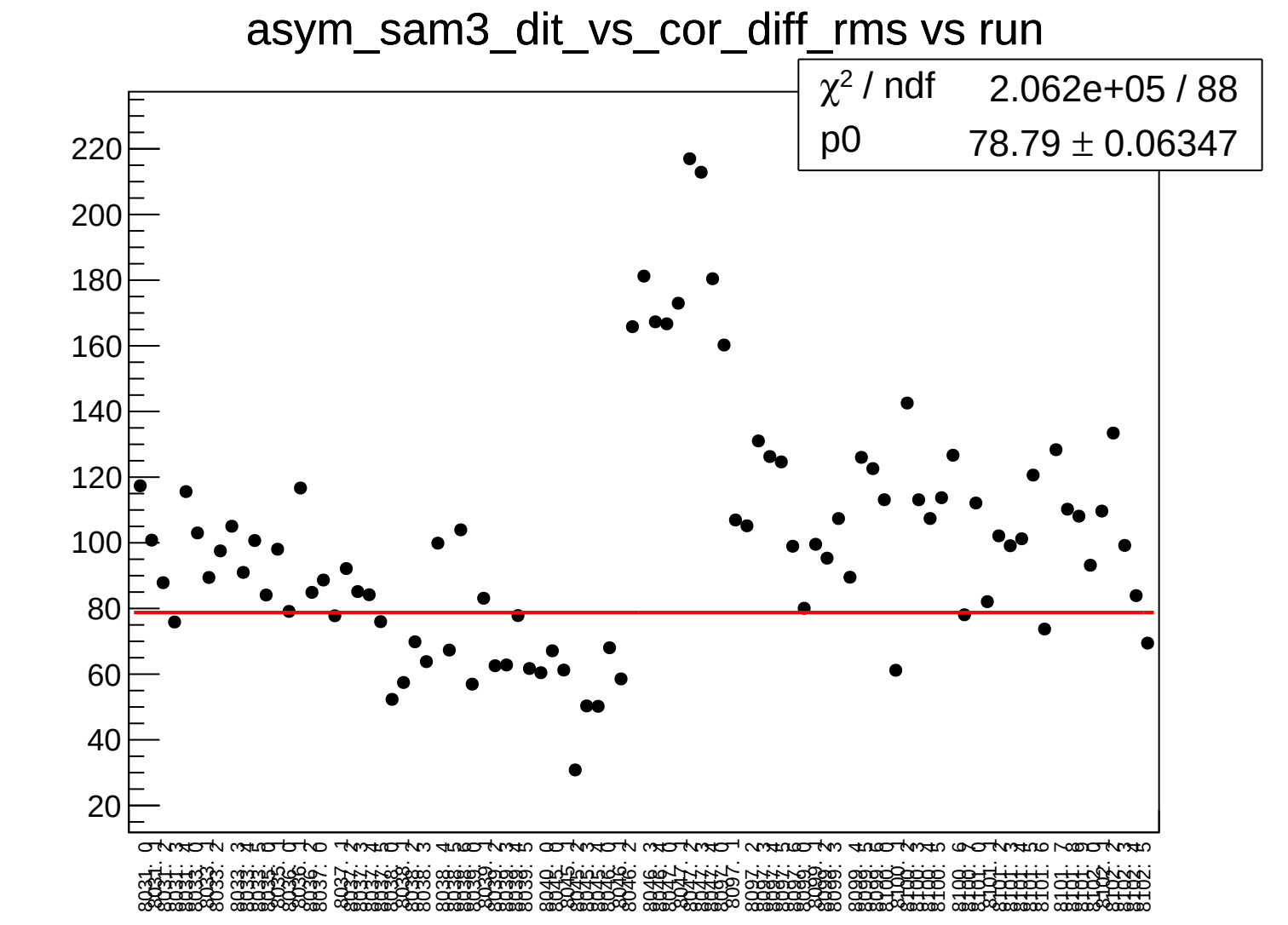

asym_sam3_rms vs run
χ² / ndf 5.298e+04 / 88
p0 2045 ± 1.571
2800
2600
2400
2200
2000
1800
1600

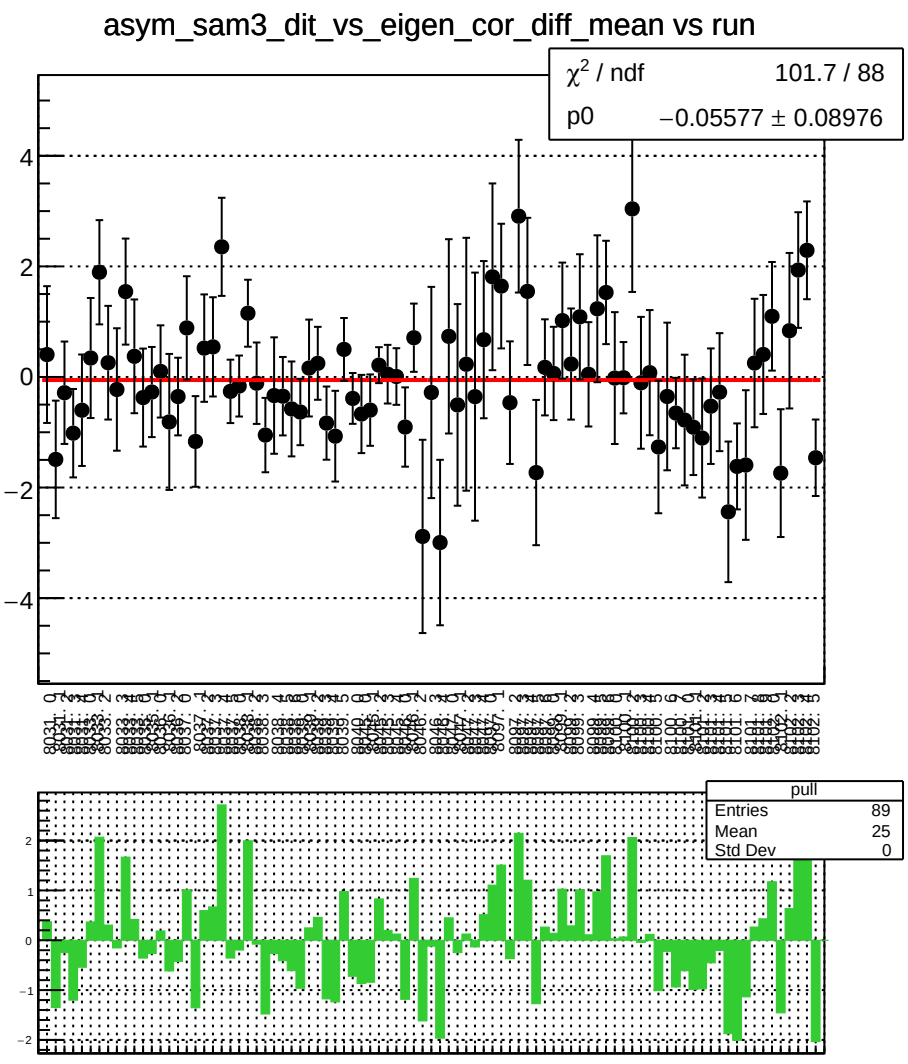

asym_sam3_reg_vs_cor_diff_mean vs run
χ² / ndf 84 / 88
p0 −1.335e−13 ± 1.723e−13
pull
Entries 89
Mean 21.22
Std Dev 41.23

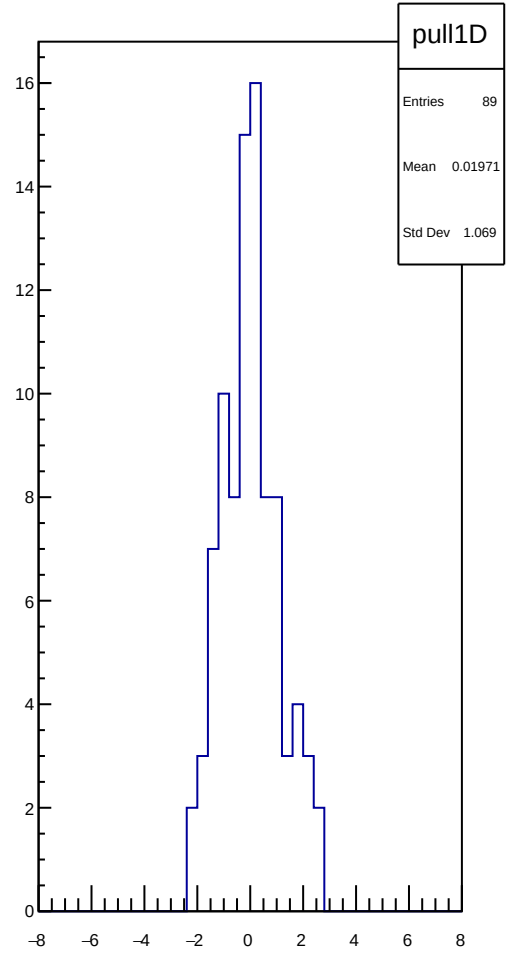

pull1D
Entries 89
Mean 0.08431
Std Dev 0.9678

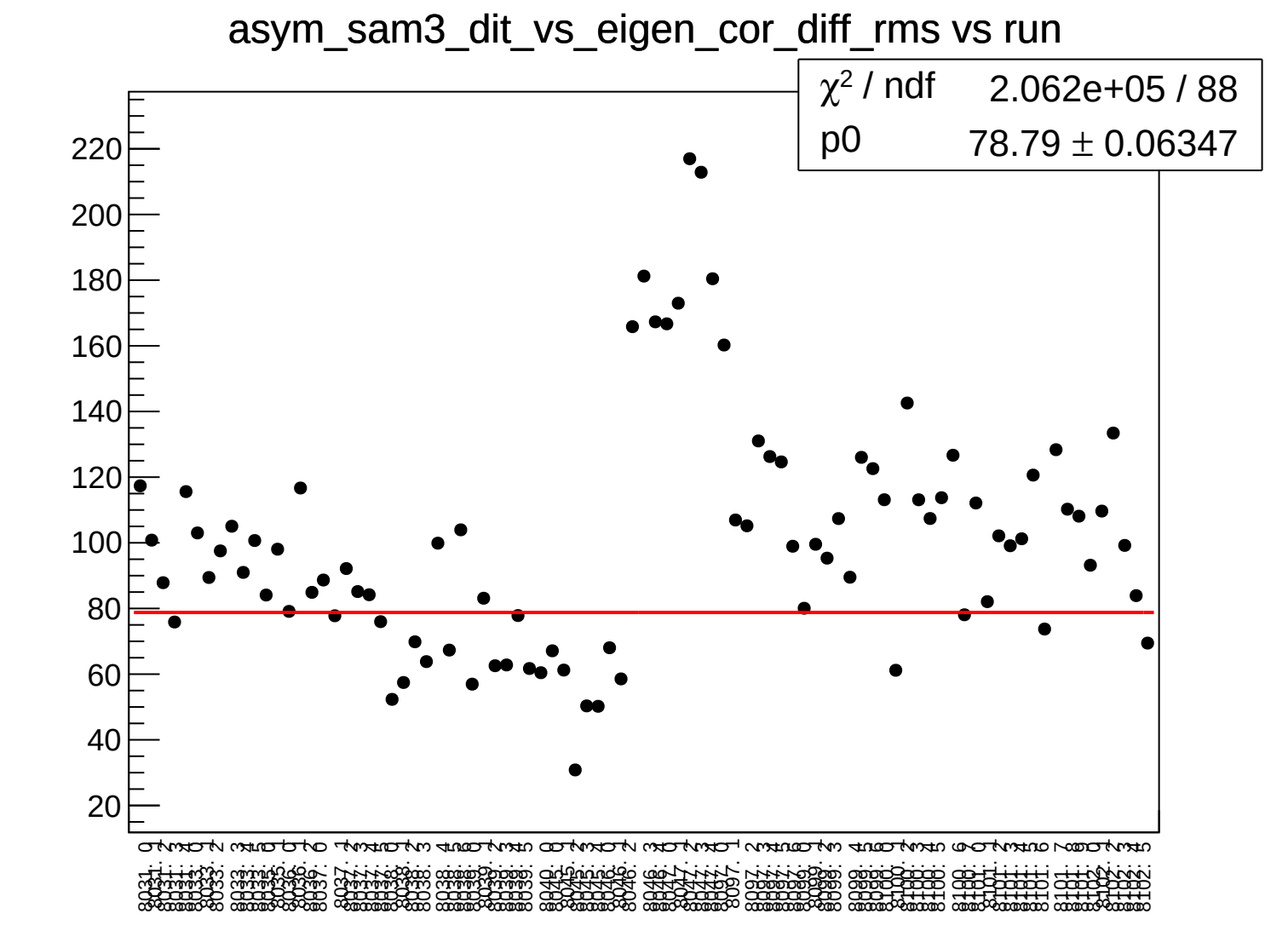

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 1.186e+06 / 88
p0 9.13e−11 ± 1.219e−13
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

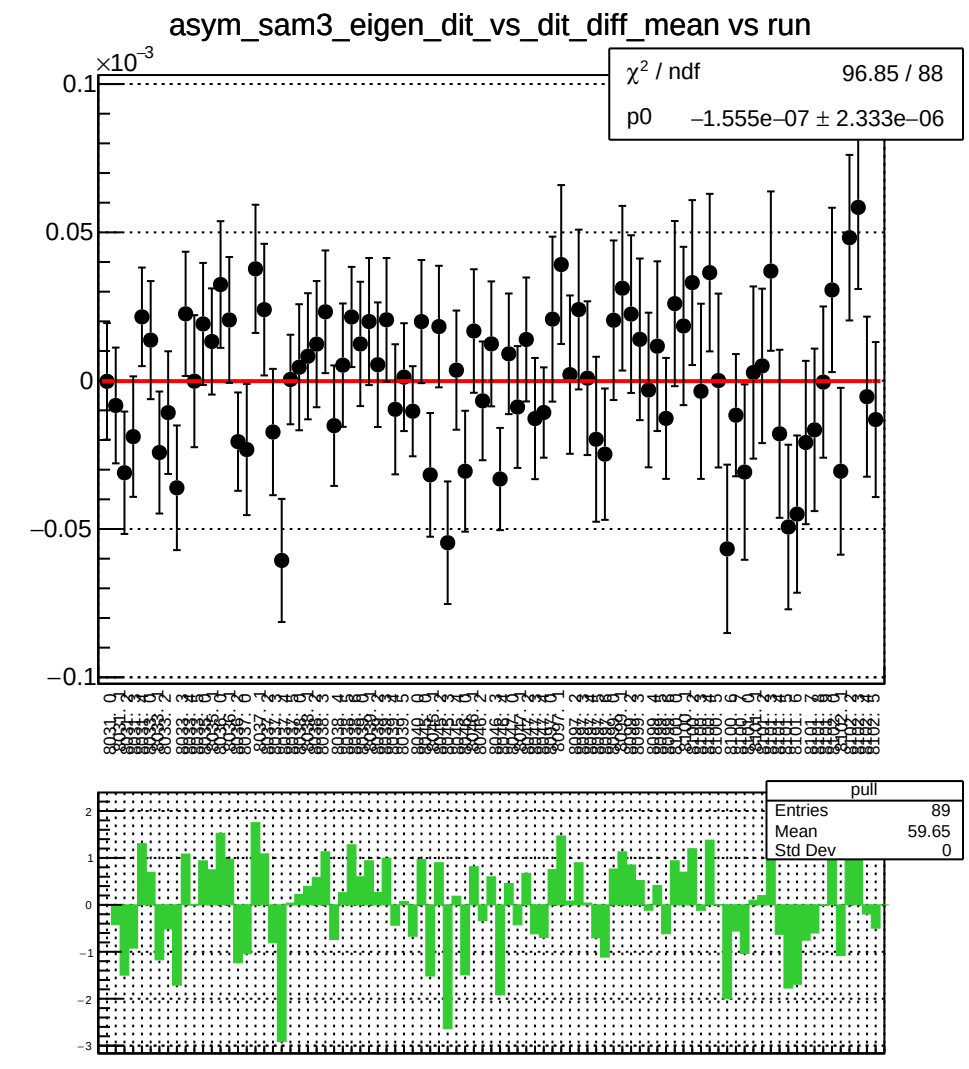

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 101.7 / 88
p0 −0.05577 ± 0.08976
pull
Entries 89
Mean 25
Std Dev 0
pull1D
Entries 89
Mean 0.01971
Std Dev 1.069

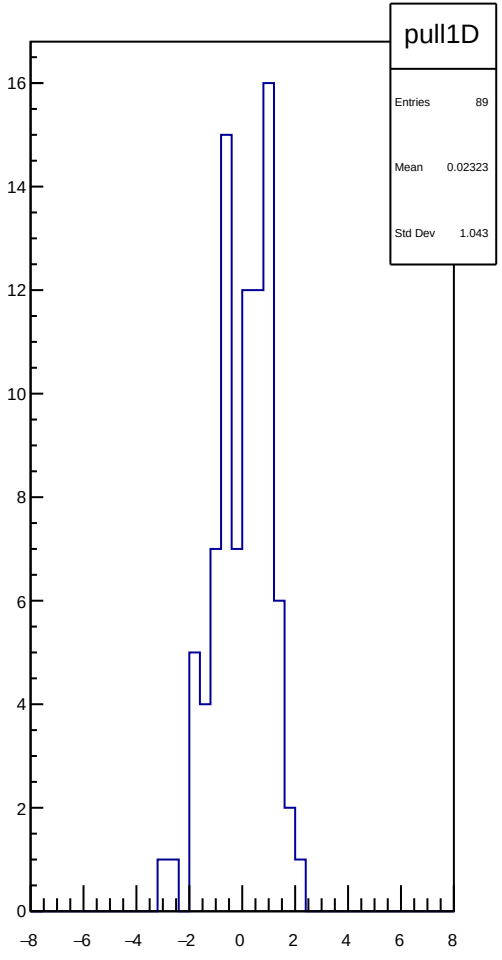

asym_sam3_dit_vs_cor_diff_rms vs run
χ² / ndf 2.062e+05 / 88
p0 78.79 ± 0.06347
220
200
180
160
140
120
100
80
60
40
20

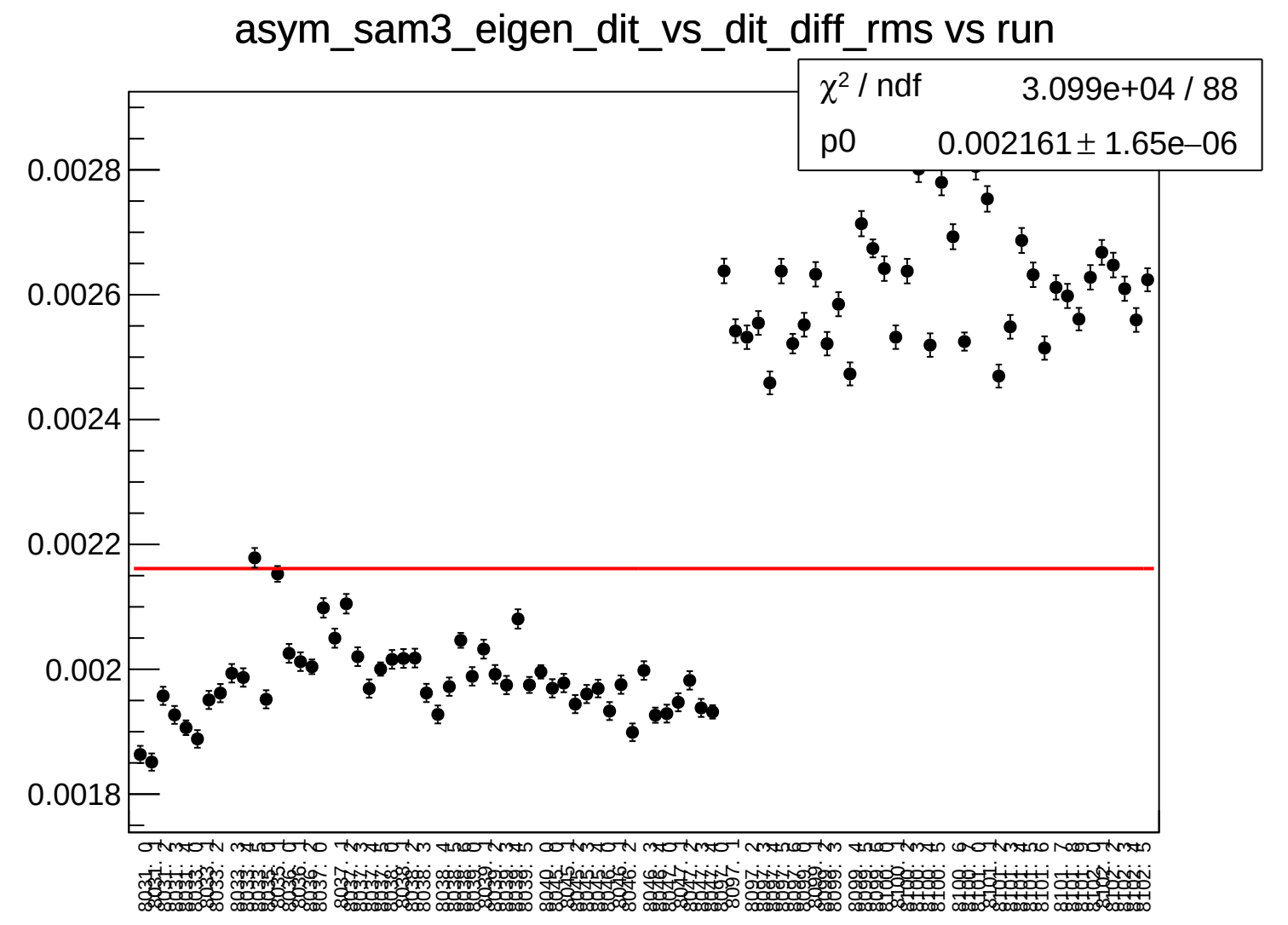

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.7 / 88
p0 −0.05577 ± 0.08976
pull
Entries 89
Mean 25
Std Dev 0

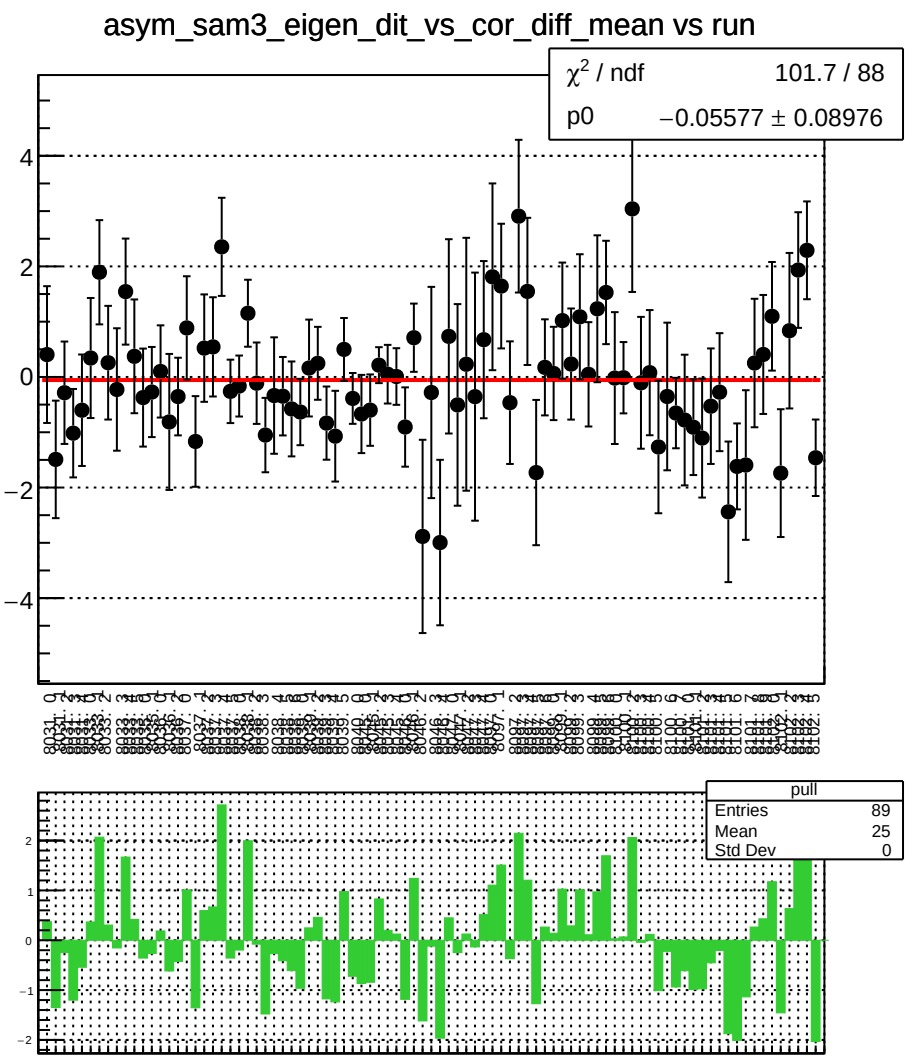

pull1D
Entries 89
Mean 0.01971
Std Dev 1.069

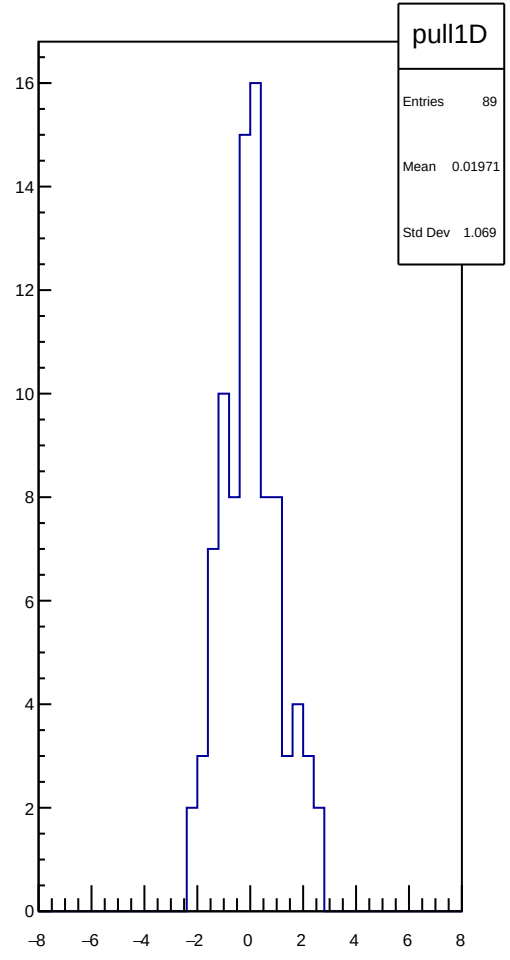

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.062e+05 / 88
p0 78.79 ± 0.06347
220
200
180
160
140
120
100
80
60
40
20

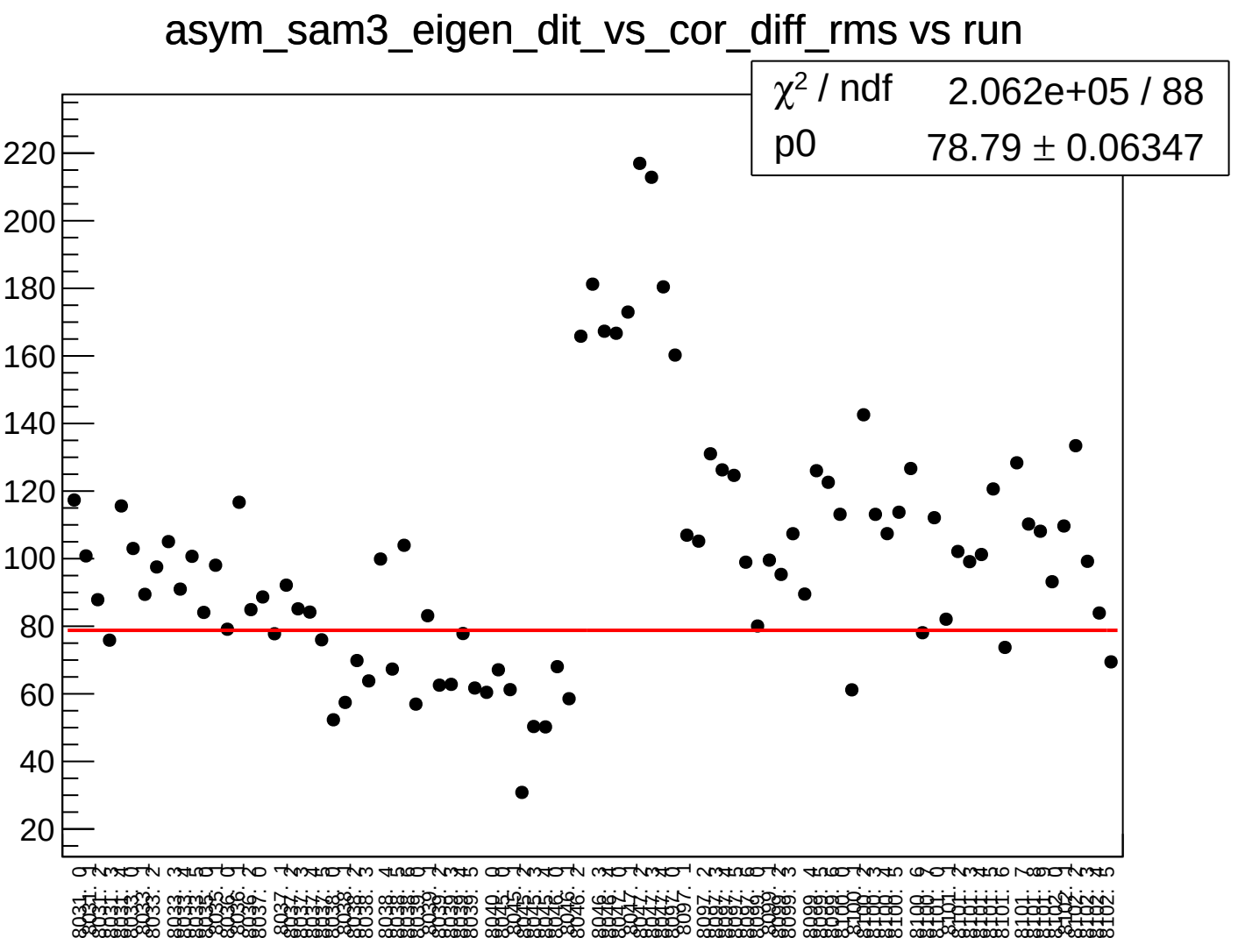

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.85 / 88
p0 −1.555e−07 ± 2.333e−06
pull
Entries 89
Mean 59.65
Std Dev 0

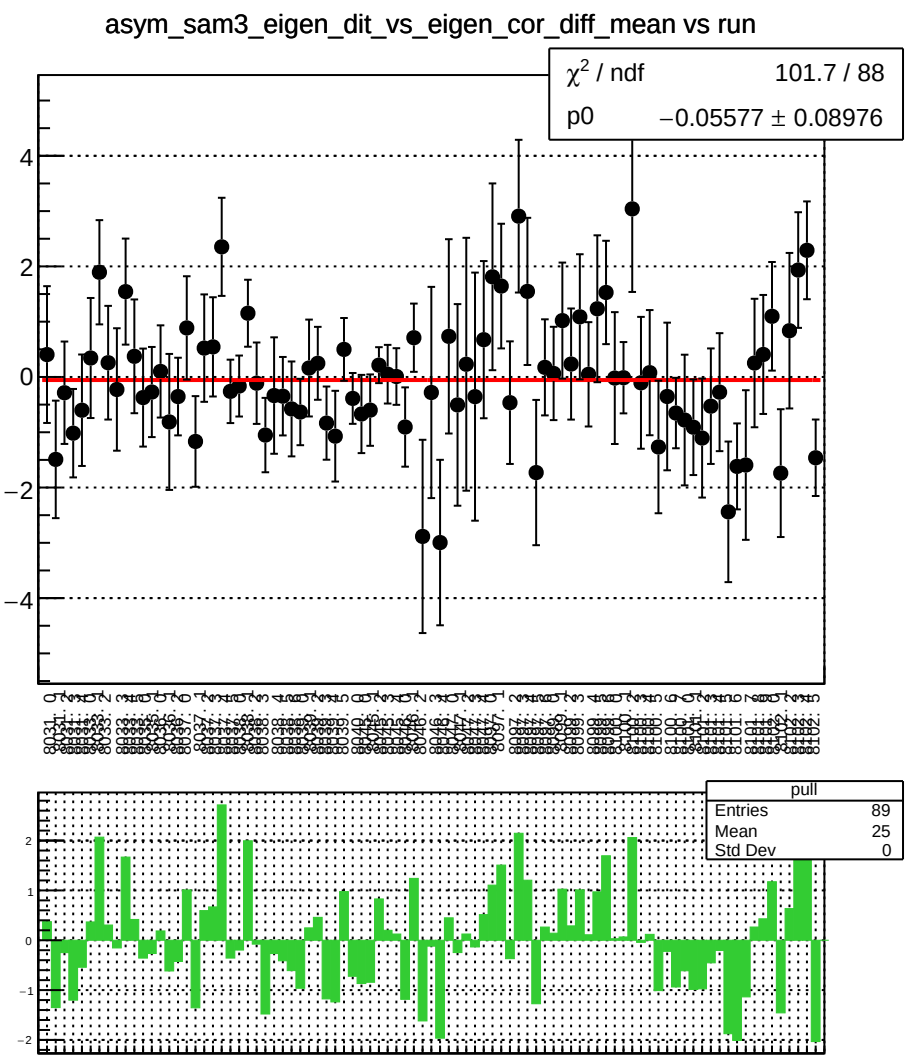

pull1D
Entries 89
Mean 0.02323
Std Dev 1.043

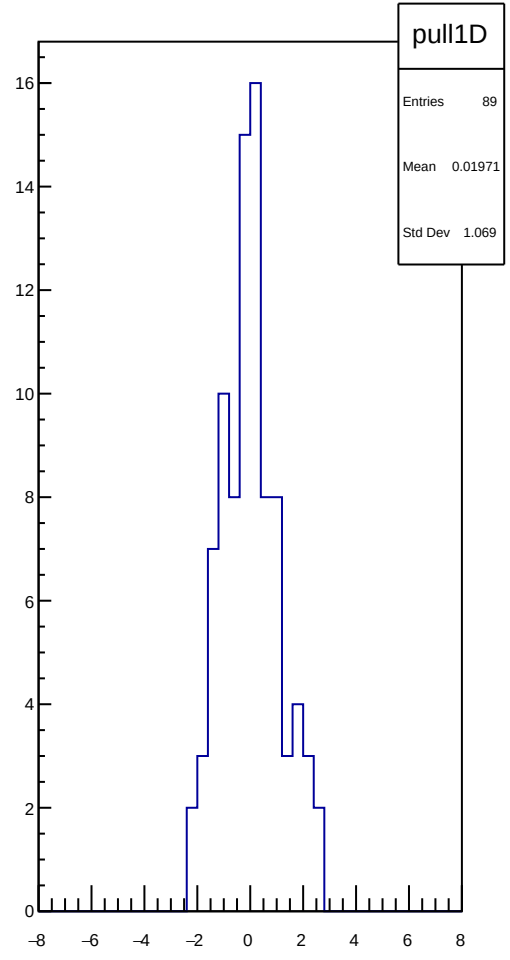

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.099e+04 / 88
p0 0.002161 ± 1.65e−06
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

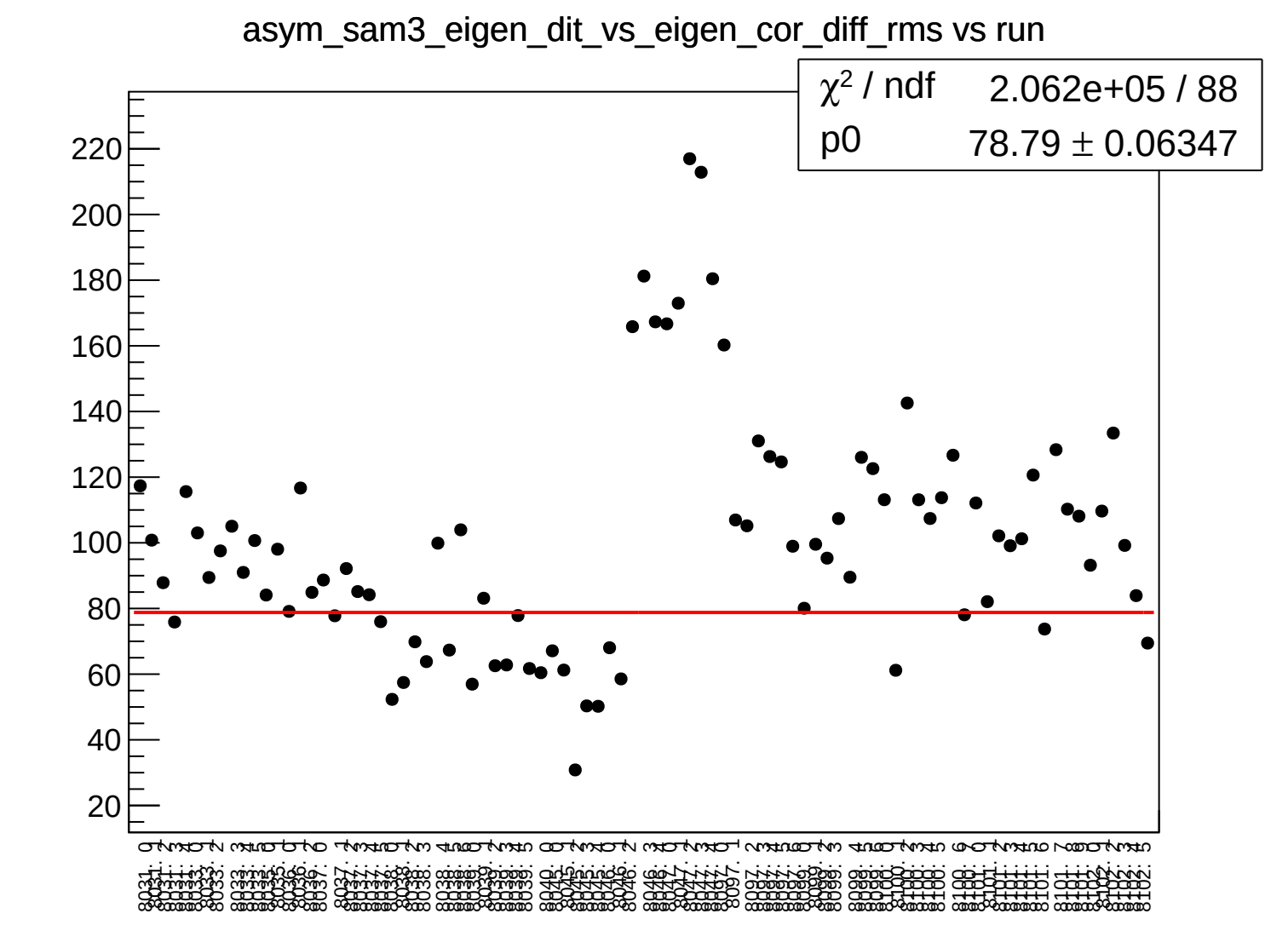

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101.7 / 88
p0 −0.05577 ± 0.08976
pull
Entries 89
Mean 25
Std Dev 0

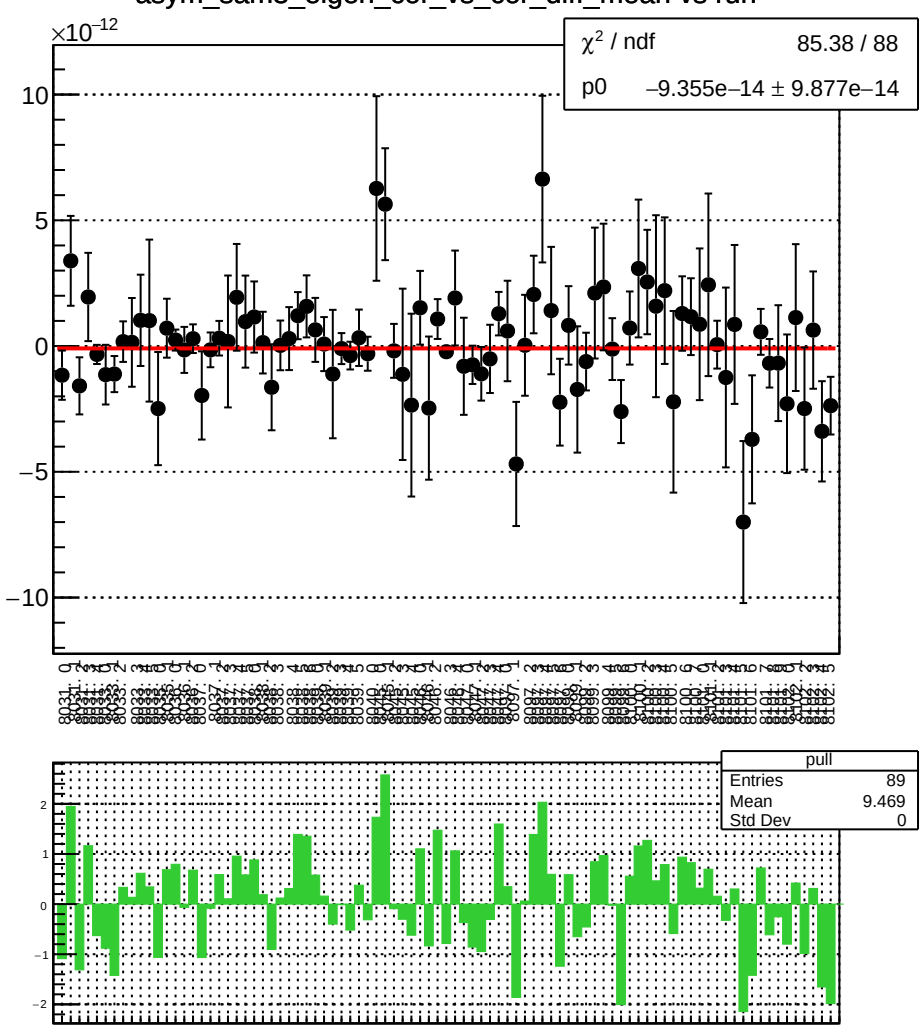

pull1D
Entries 89
Mean 0.01971
Std Dev 1.069

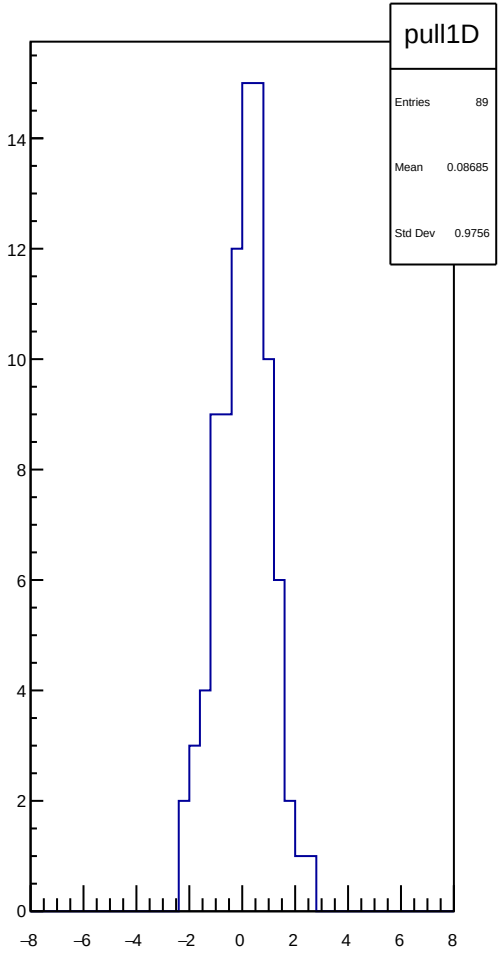

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.062e+05 / 88
p0 78.79 ± 0.06347
220
200
180
160
140
120
100
80
60
40
20

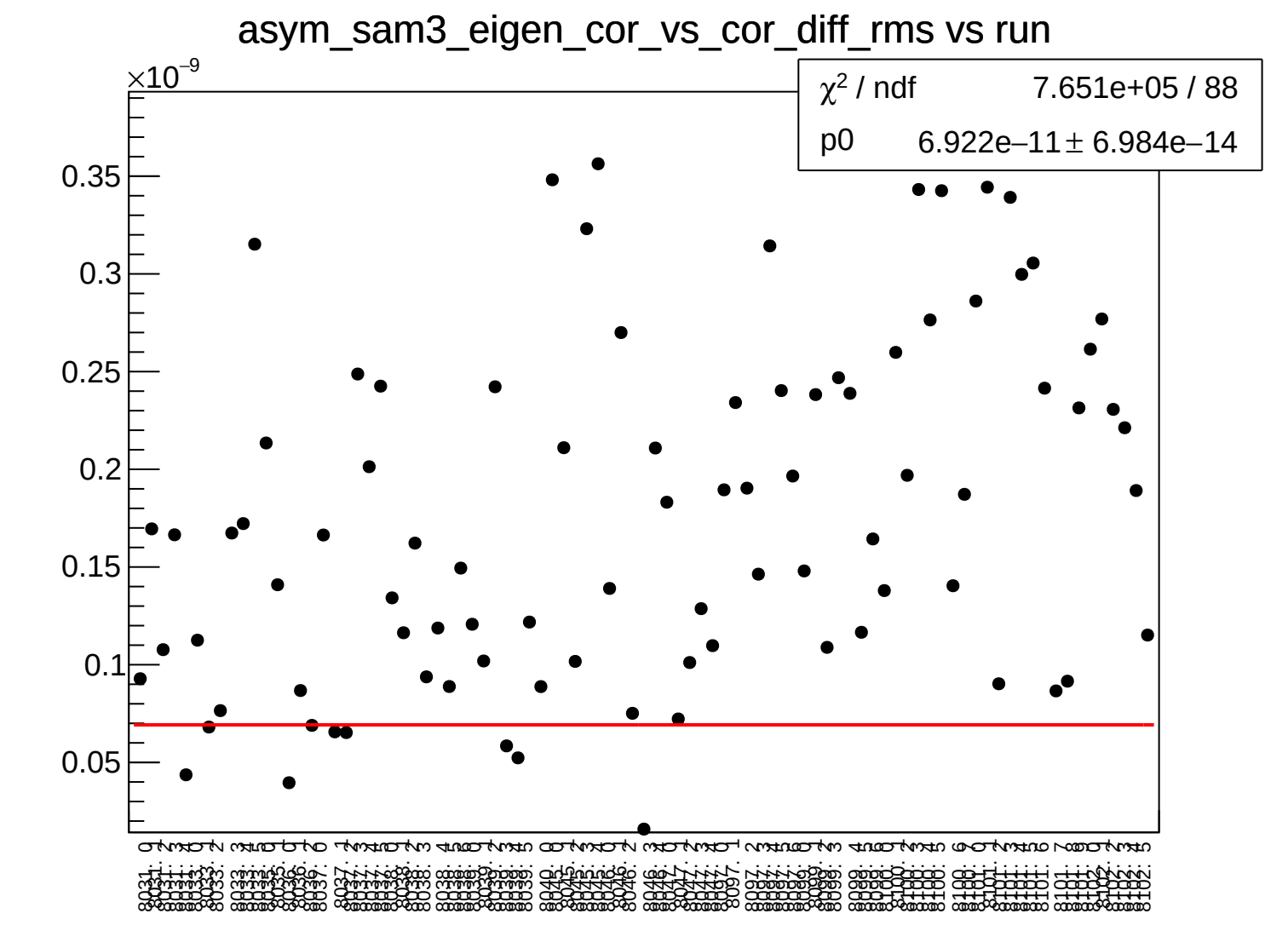

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.7 / 88
p0 −0.05577 ± 0.08976
pull
Entries 89
Mean 25
Std Dev 0

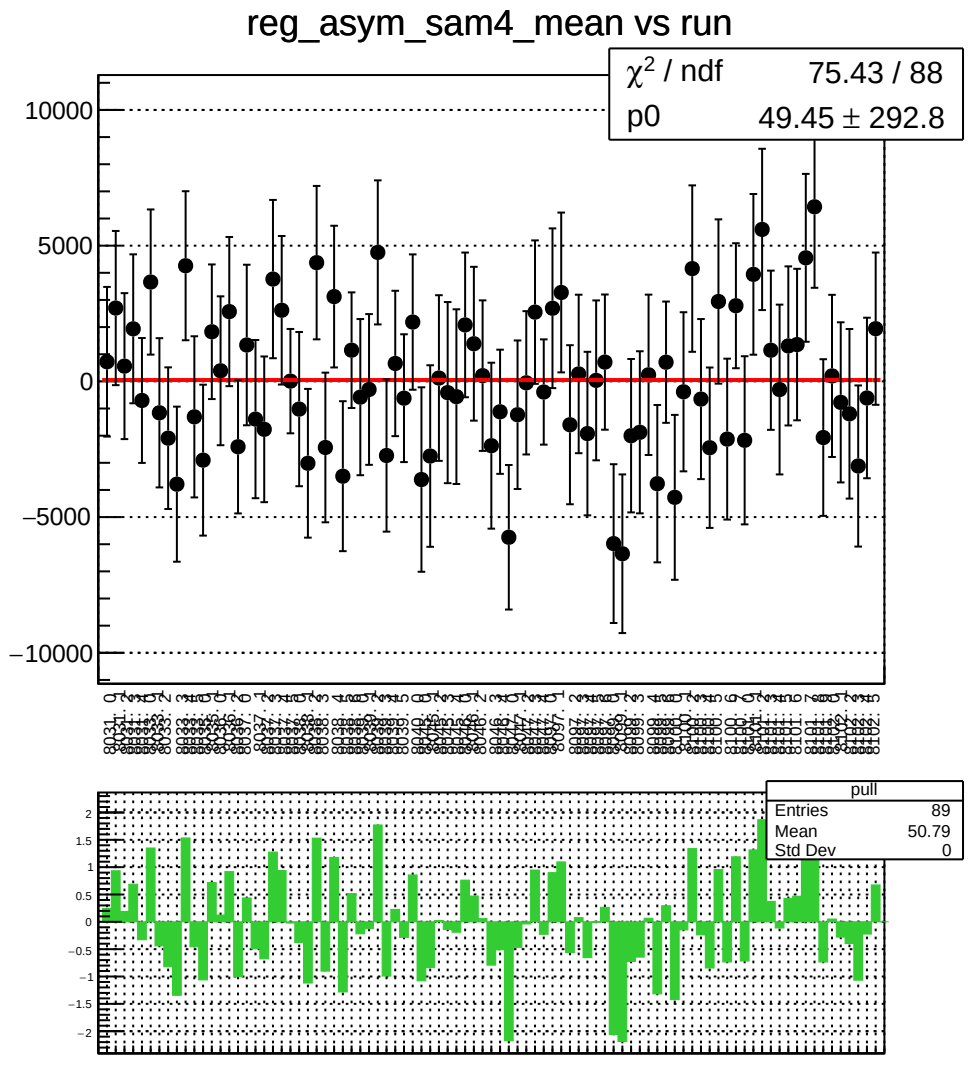

pull1D
Entries 89
Mean 0.01971
Std Dev 1.069

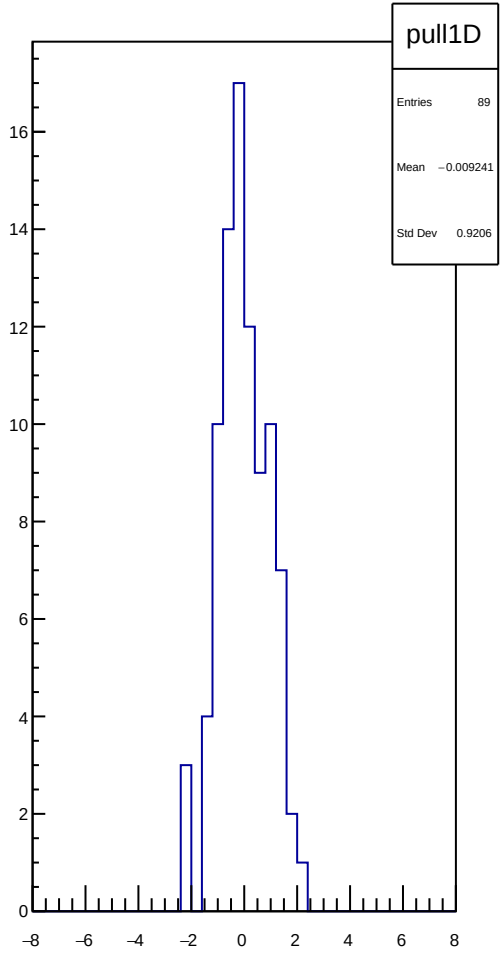

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.062e+05 / 88
p0 78.79 ± 0.06347
220
200
180
160
140
120
100
80
60
40
20

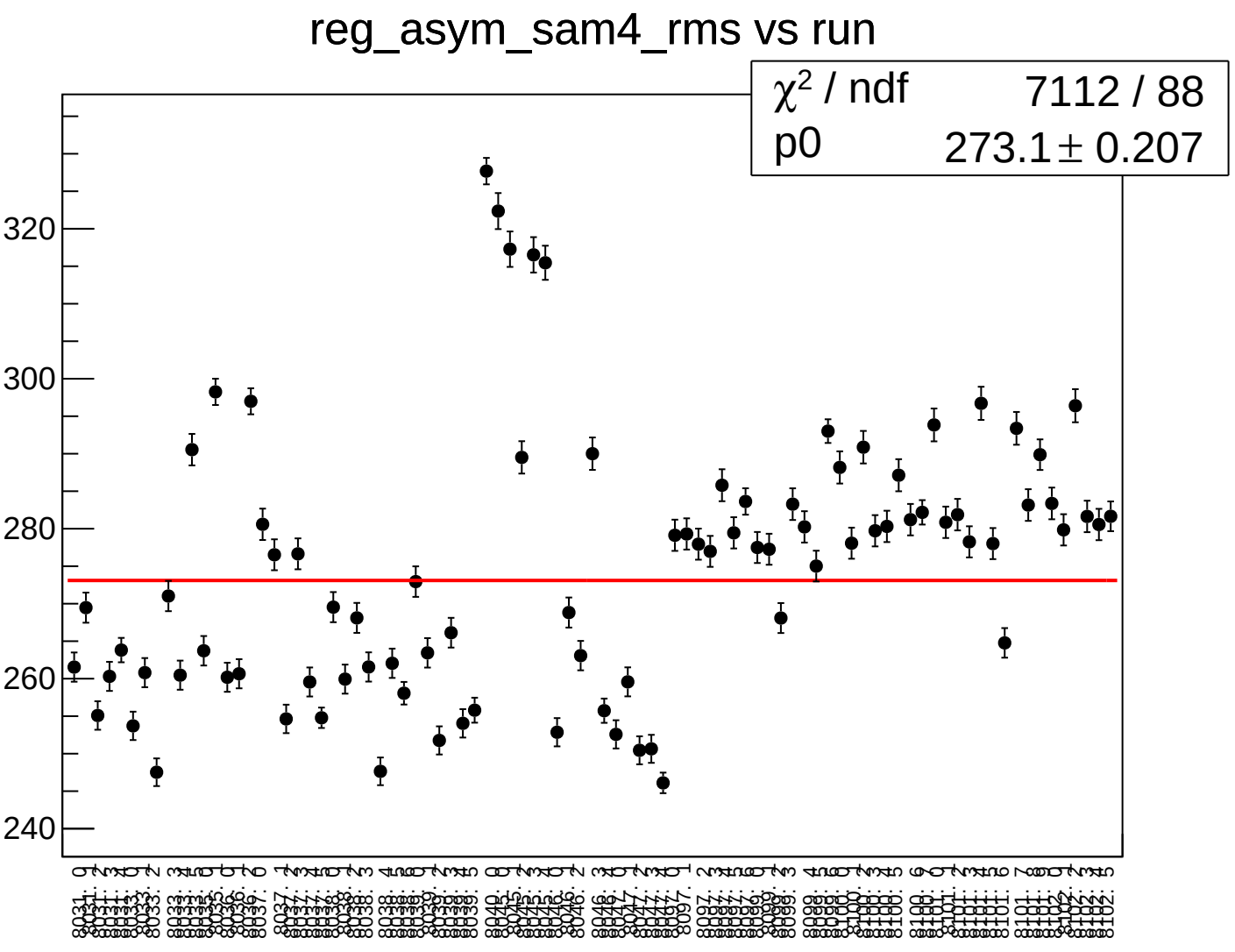

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.38 / 88
p0 −9.355e−14 ± 9.877e−14
pull
Entries 89
Mean 9.469
Std Dev 0

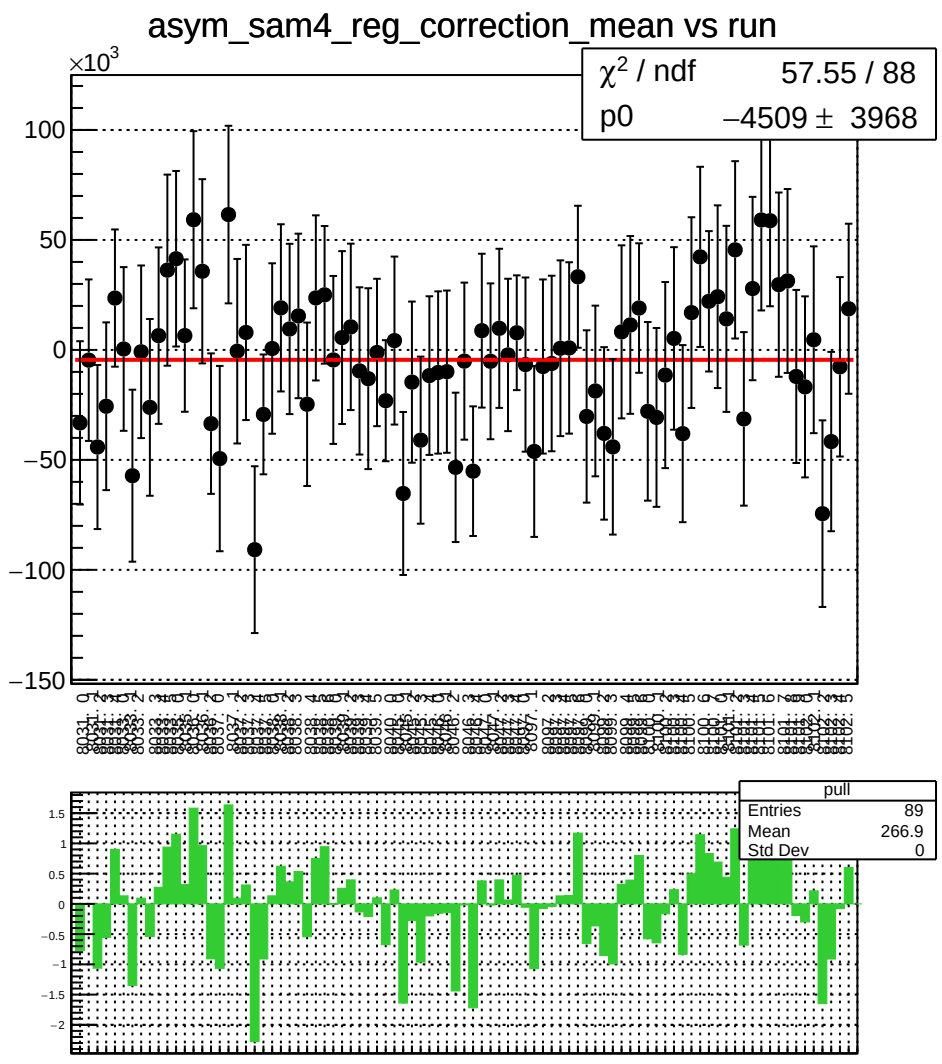

pull1D
Entries 89
Mean 0.08685
Std Dev 0.9756

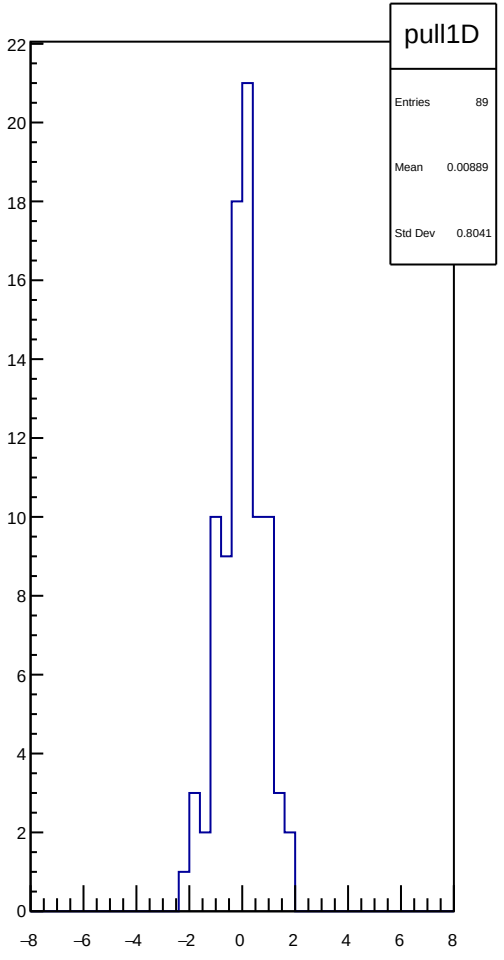

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.651e+05 / 88
p0 6.922e−11 ± 6.984e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

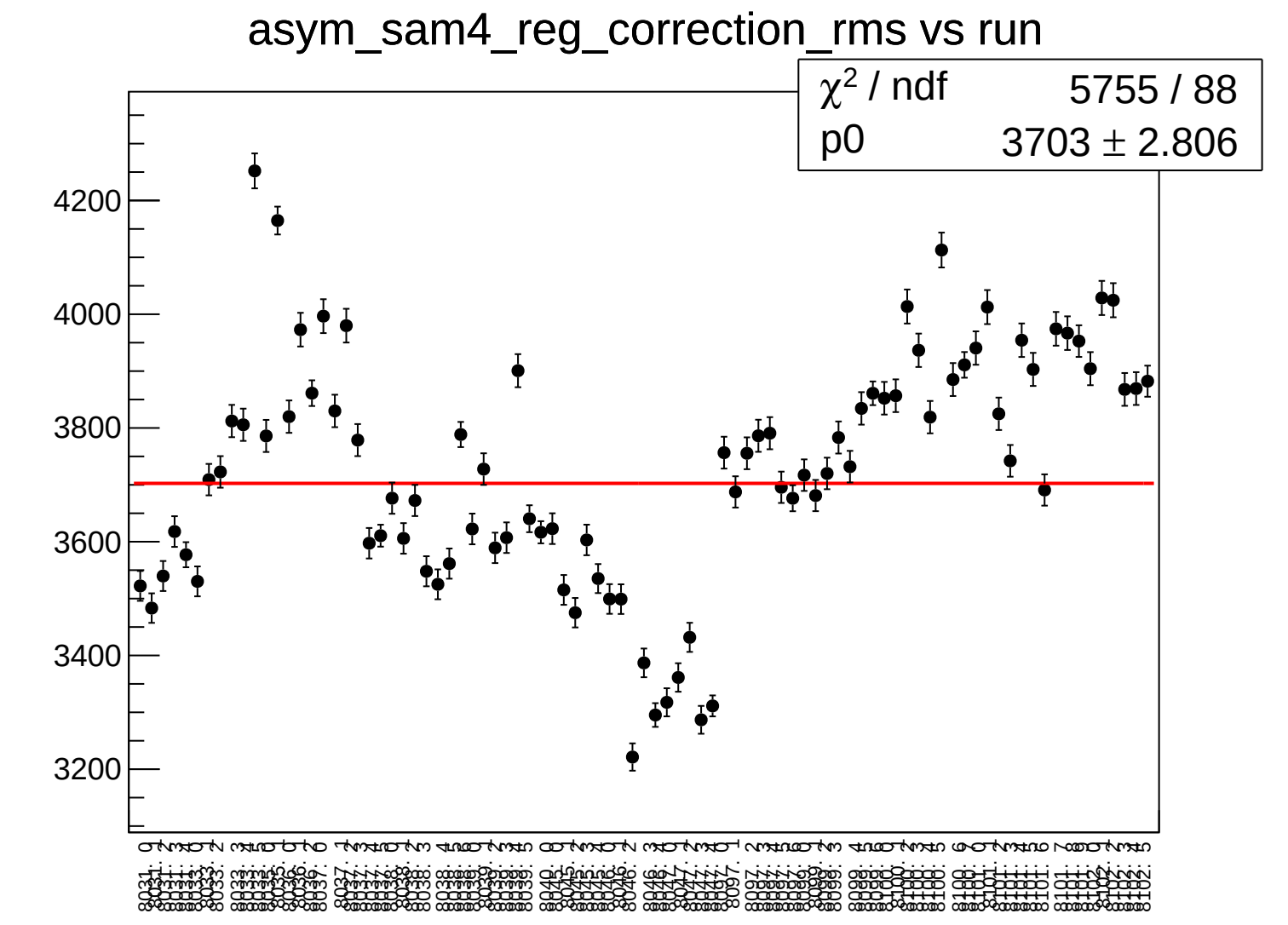

reg_asym_sam4_mean vs run
χ² / ndf 75.43 / 88
p0 49.45 ± 292.8
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 50.79
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

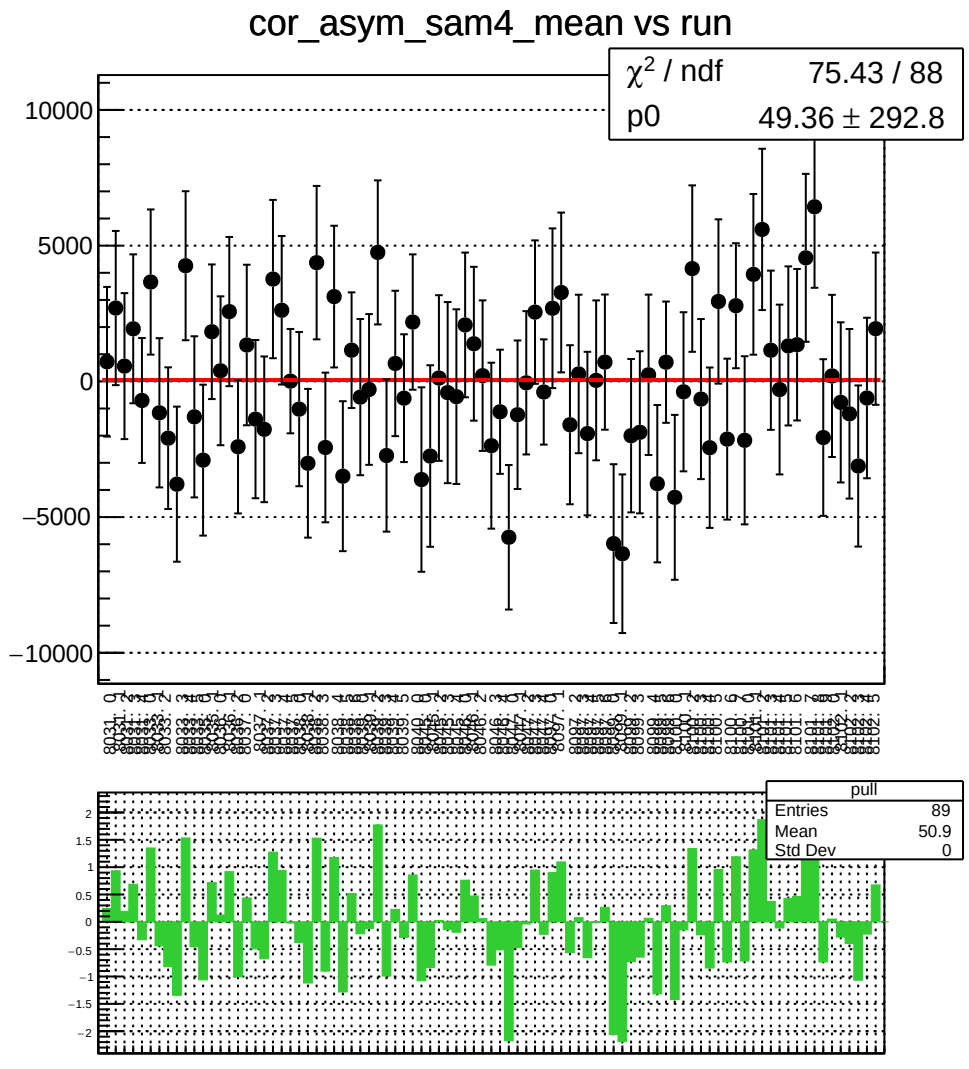

pull1D
Entries 89
Mean −0.009241
Std Dev 0.9206
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

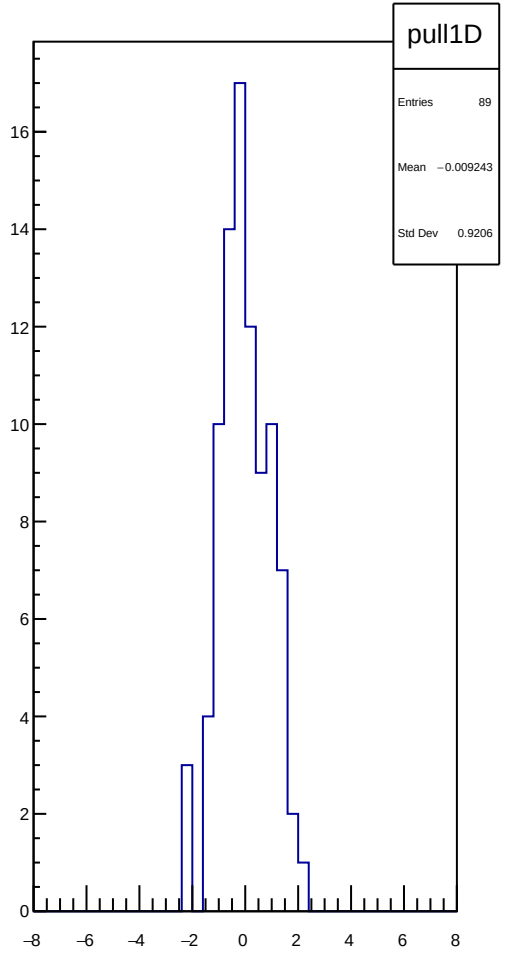

reg_asym_sam4_rms vs run
χ² / ndf 7112 / 88
p0 273.1 ± 0.207
320
300
280
260
240

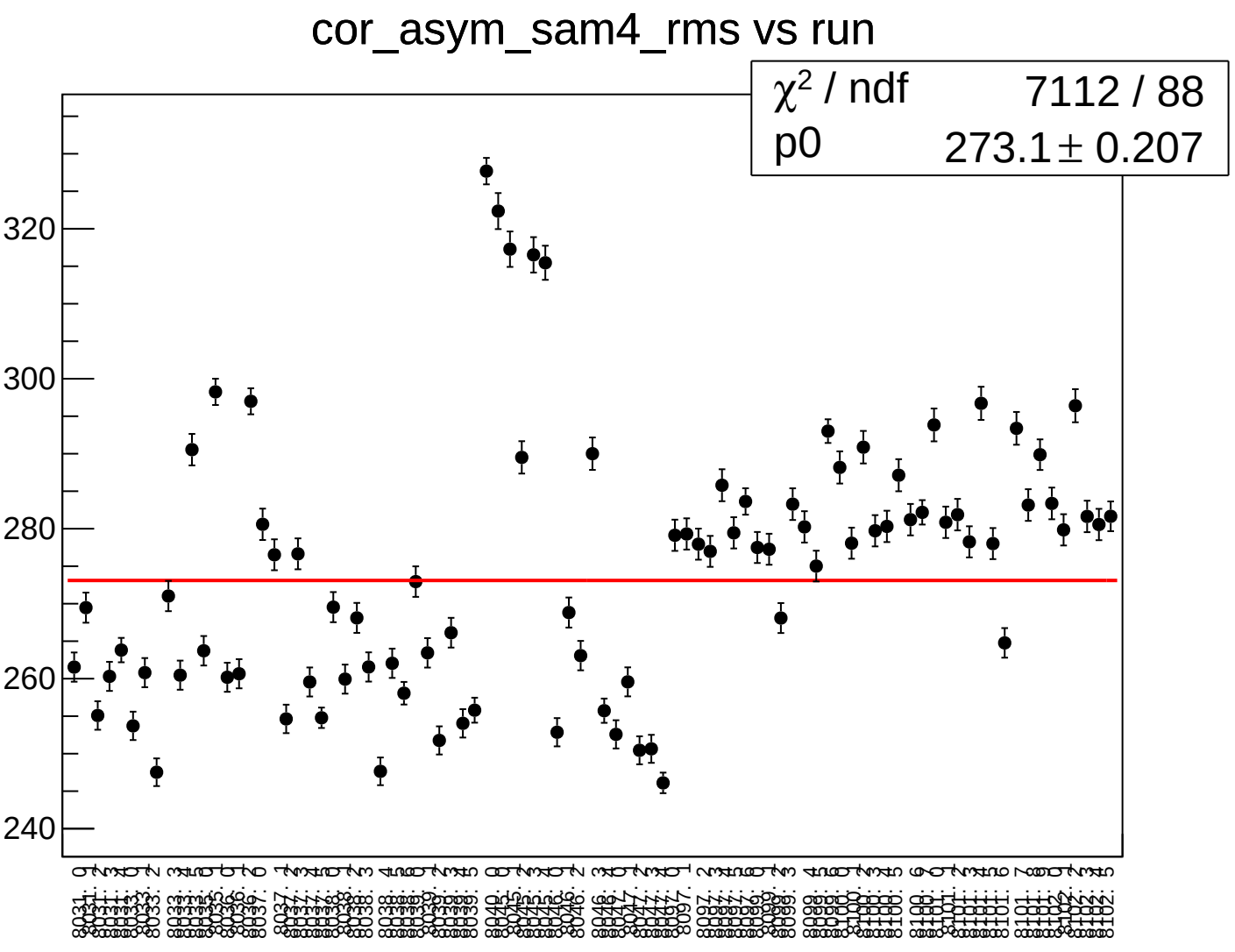

asym_sam4_reg_correction_mean vs run
×10^3
χ² / ndf 57.55 / 88
p0 −4509 ± 3968
100
50
0
−50
−100
−150
pull
Entries 89
Mean 266.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

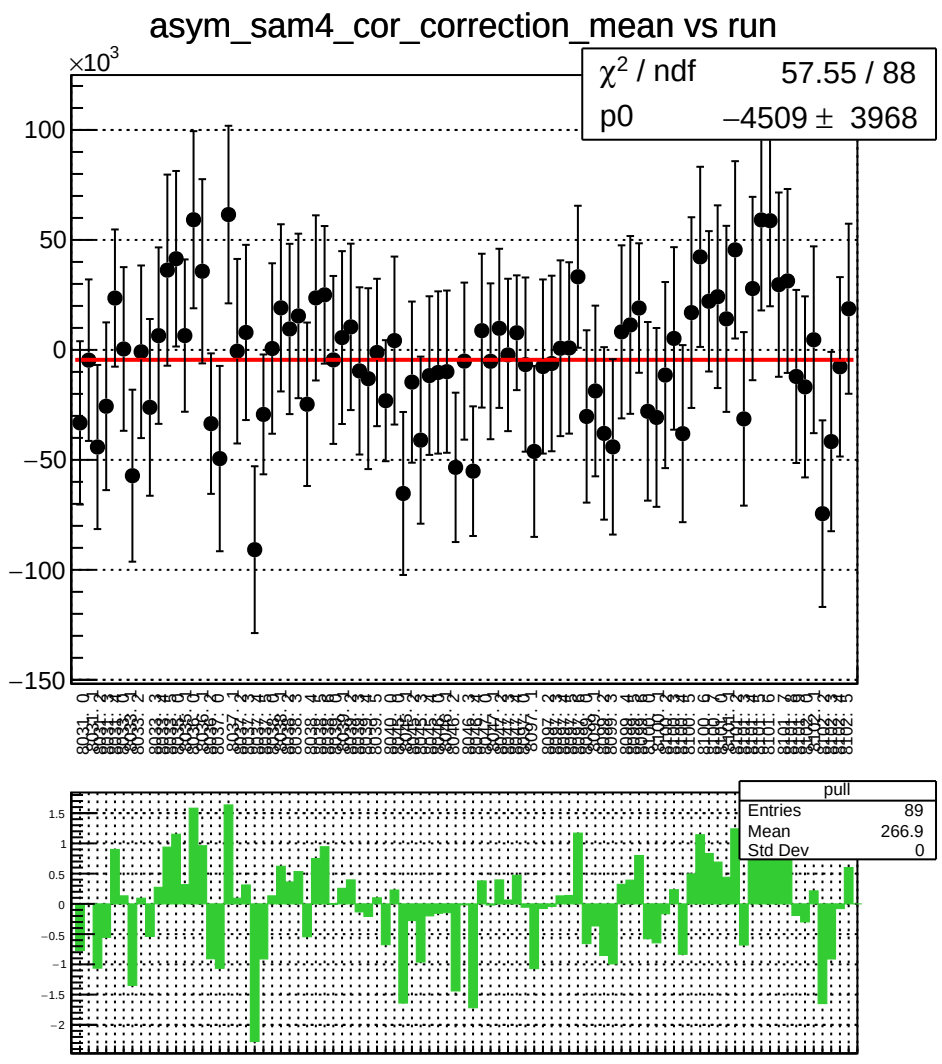

pull1D
Entries 89
Mean 0.00889
Std Dev 0.8041
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

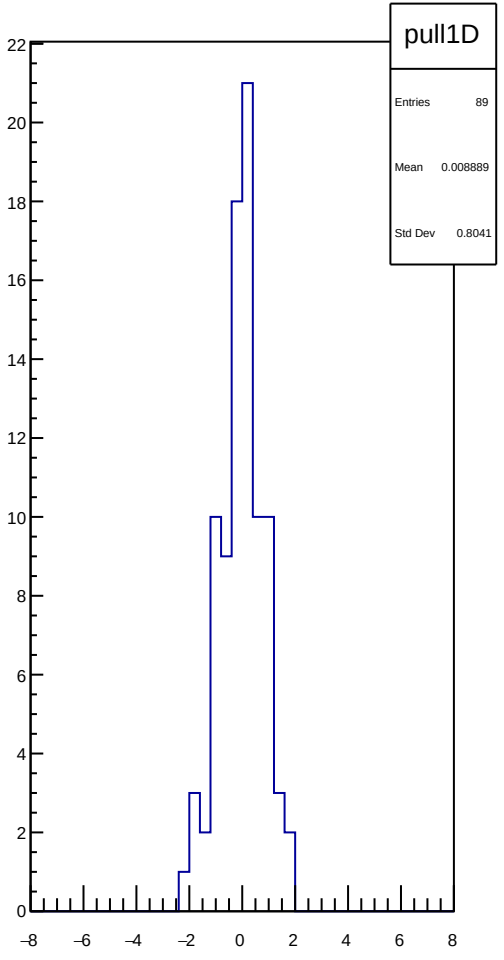

asym_sam4_reg_correction_rms vs run
$\chi^2$ / ndf 5755 / 88
p0 3703 ± 2.806
4200
4000
3800
3600
3400
3200

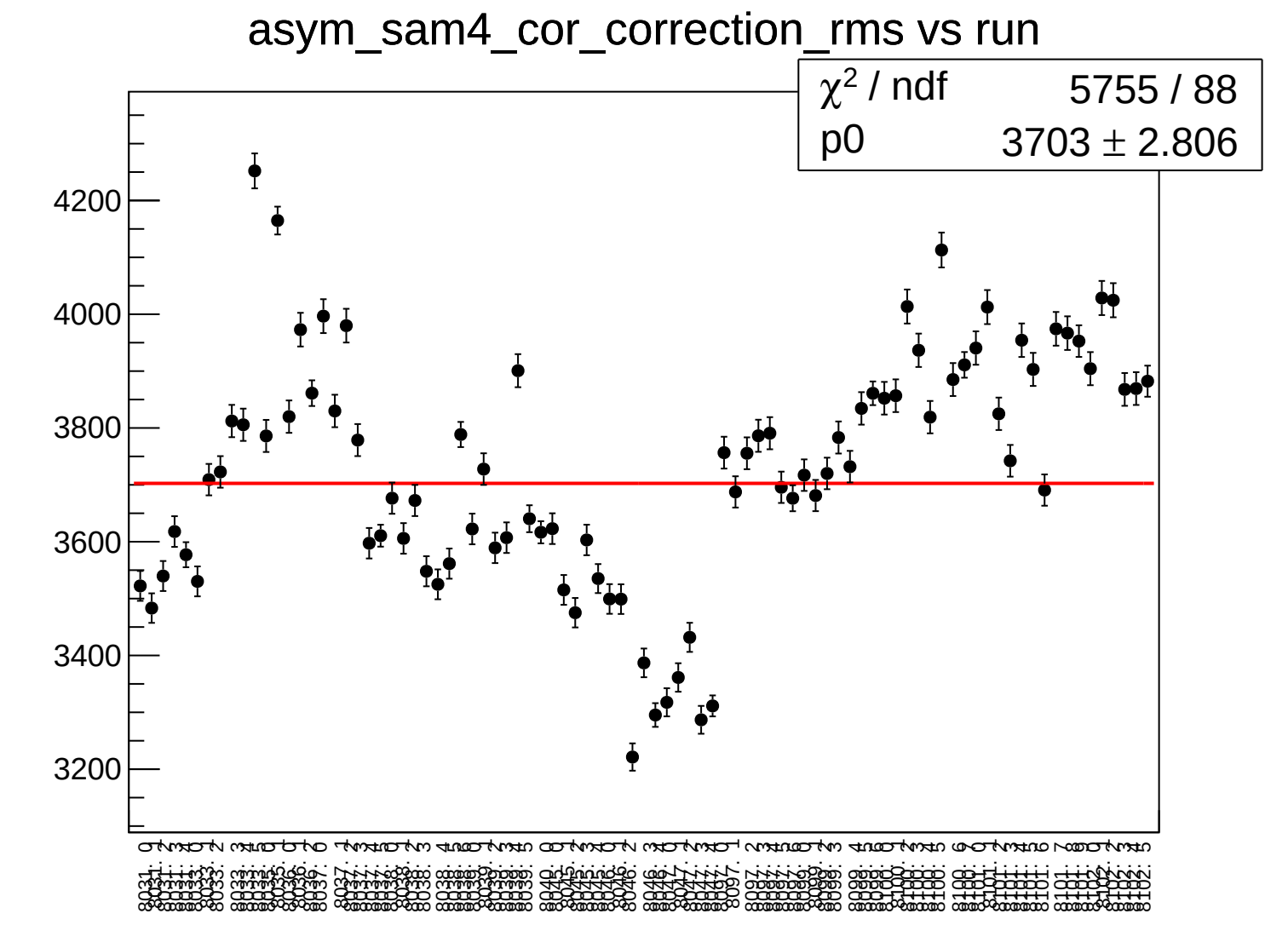

cor_asym_sam4_mean vs run
χ² / ndf 75.43 / 88
p0 49.36 ± 292.8
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 50.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

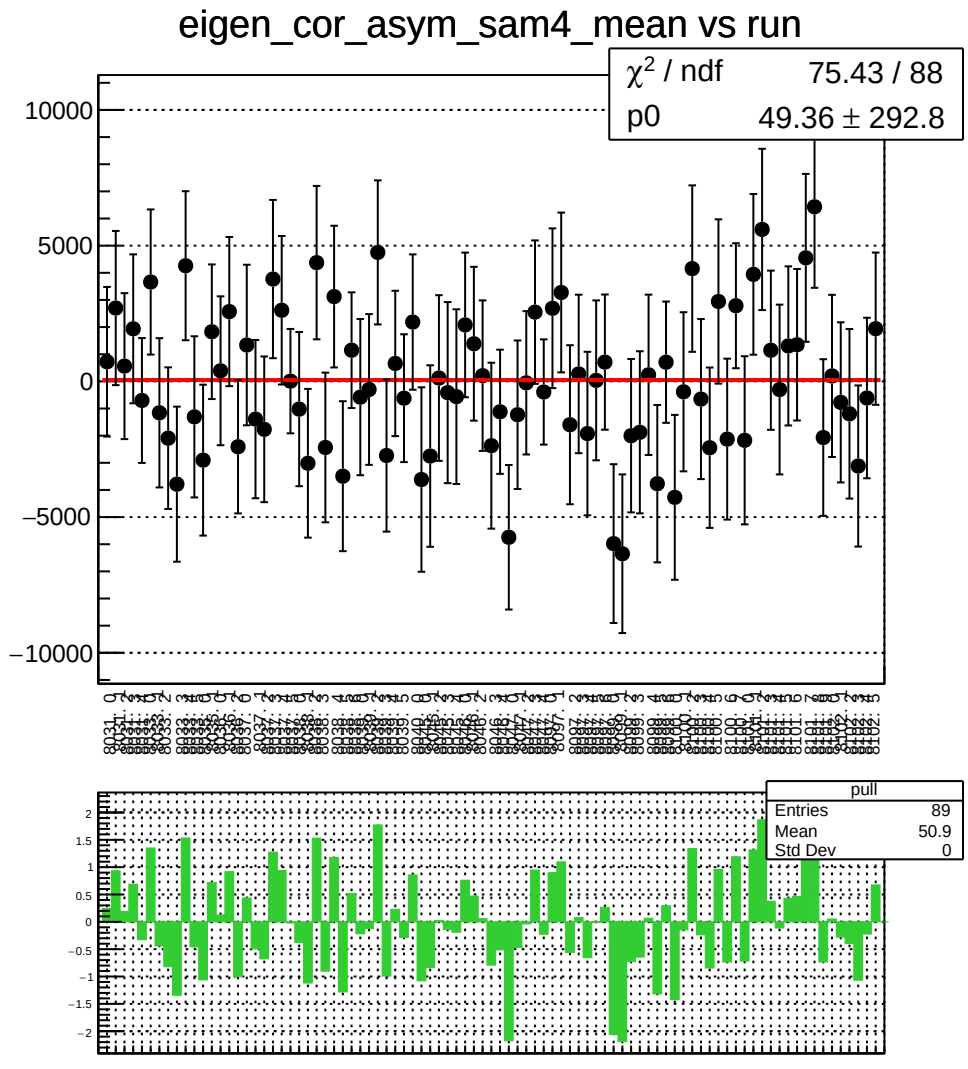

pull1D
Entries 89
Mean −0.009243
Std Dev 0.9206
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

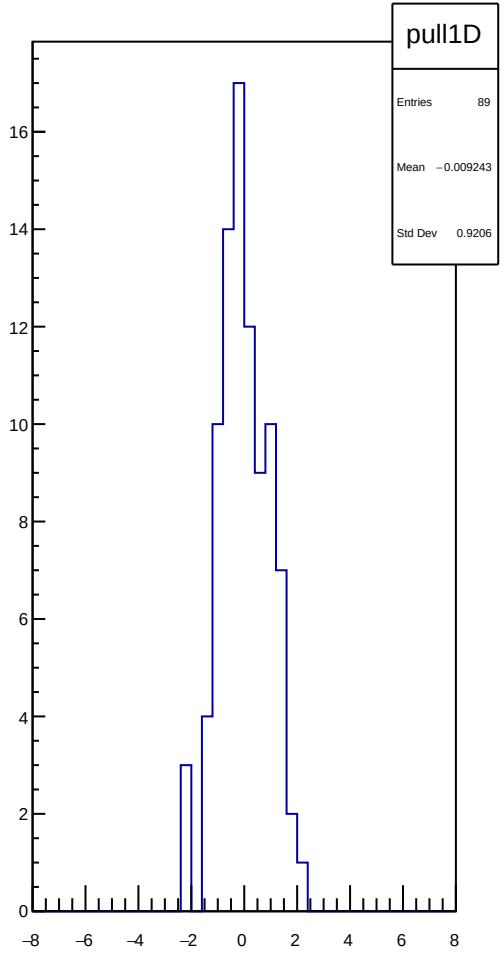

cor_asym_sam4_rms vs run
χ² / ndf 7112 / 88
p0 273.1 ± 0.207
320
300
280
260
240

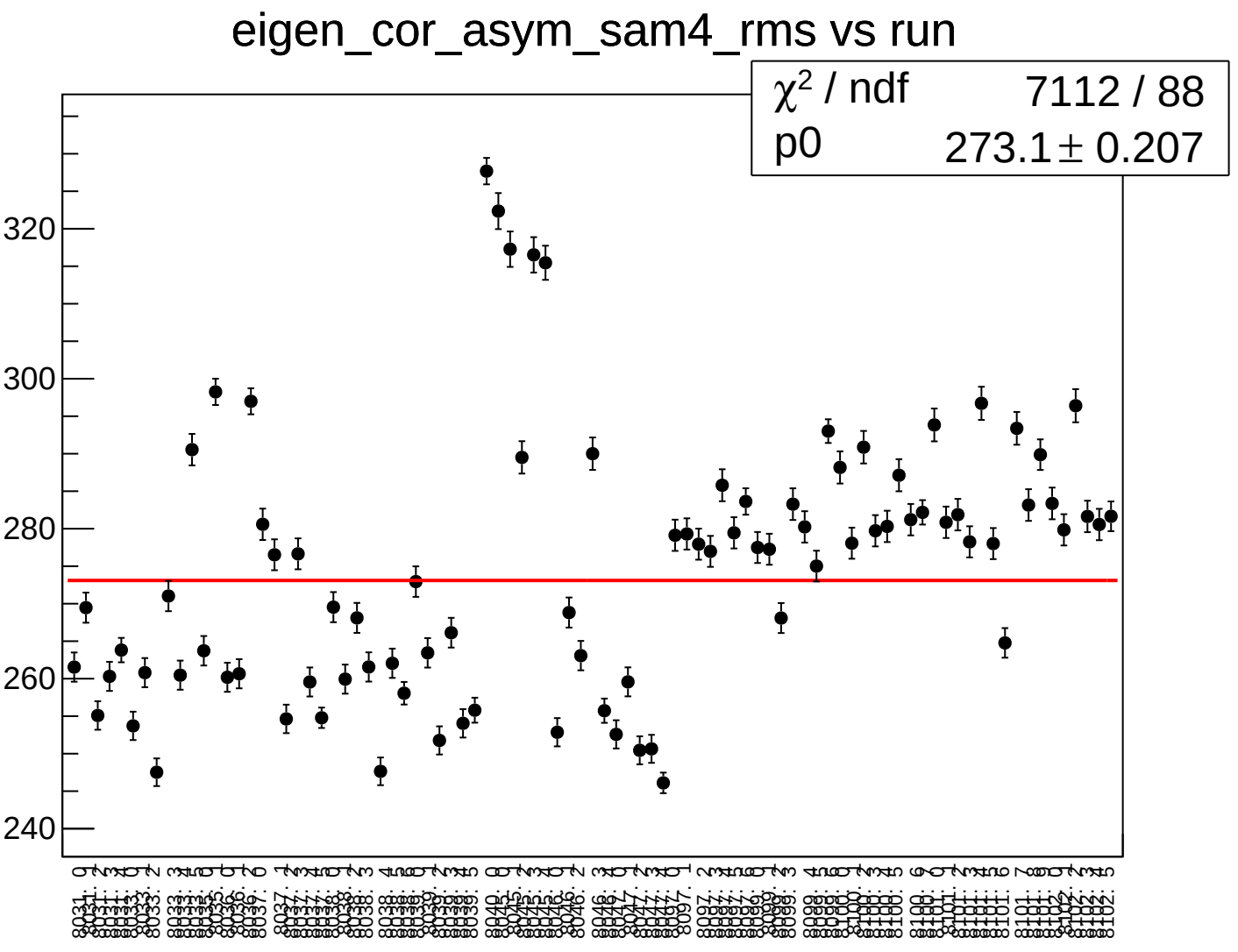

asym_sam4_cor_correction_mean vs run
×10^3
χ² / ndf 57.55 / 88
p0 −4509 ± 3968
100
50
0
−50
−100
−150
pull
Entries 89
Mean 266.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

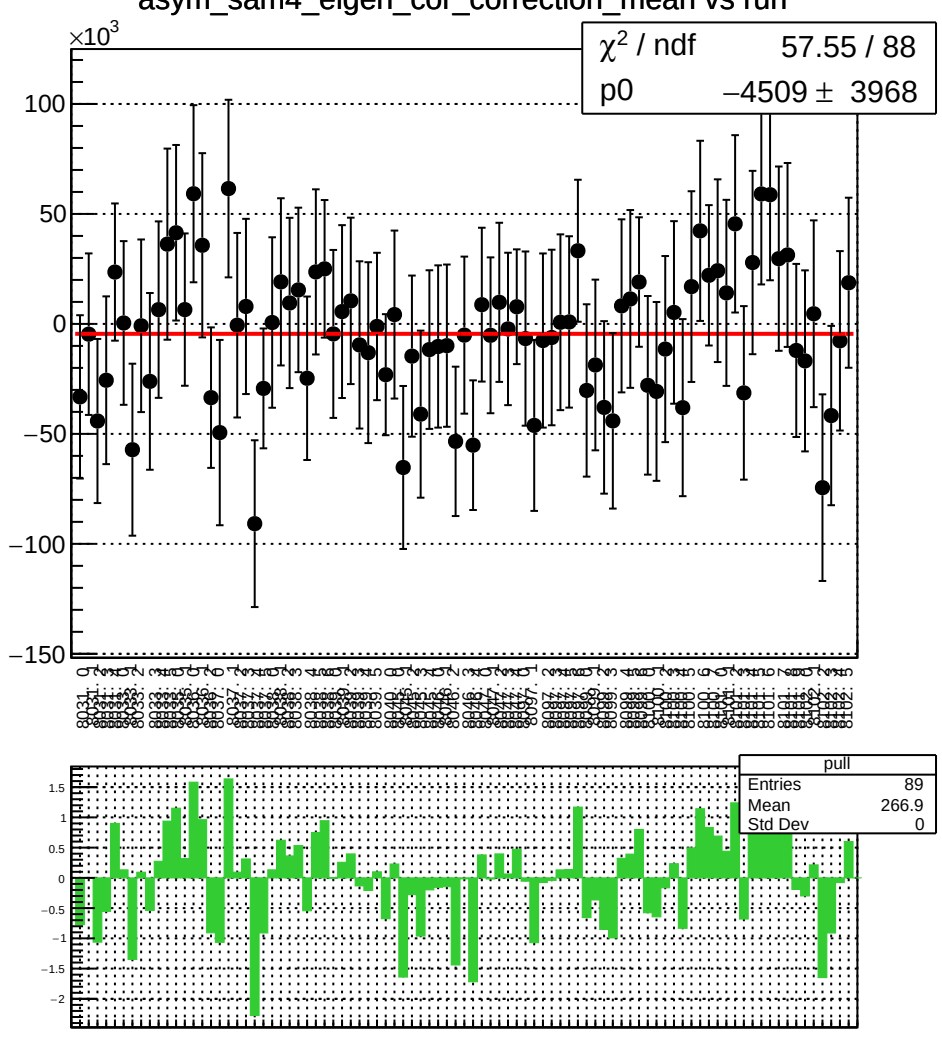

pull1D
Entries 89
Mean 0.008889
Std Dev 0.8041
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

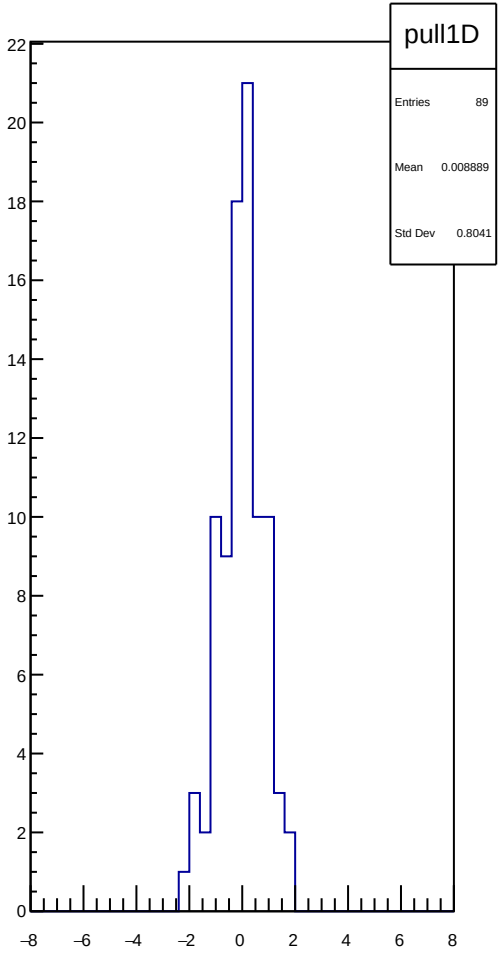

asym_sam4_cor_correction_rms vs run
χ² / ndf 5755 / 88
p0 3703 ± 2.806
4200
4000
3800
3600
3400
3200

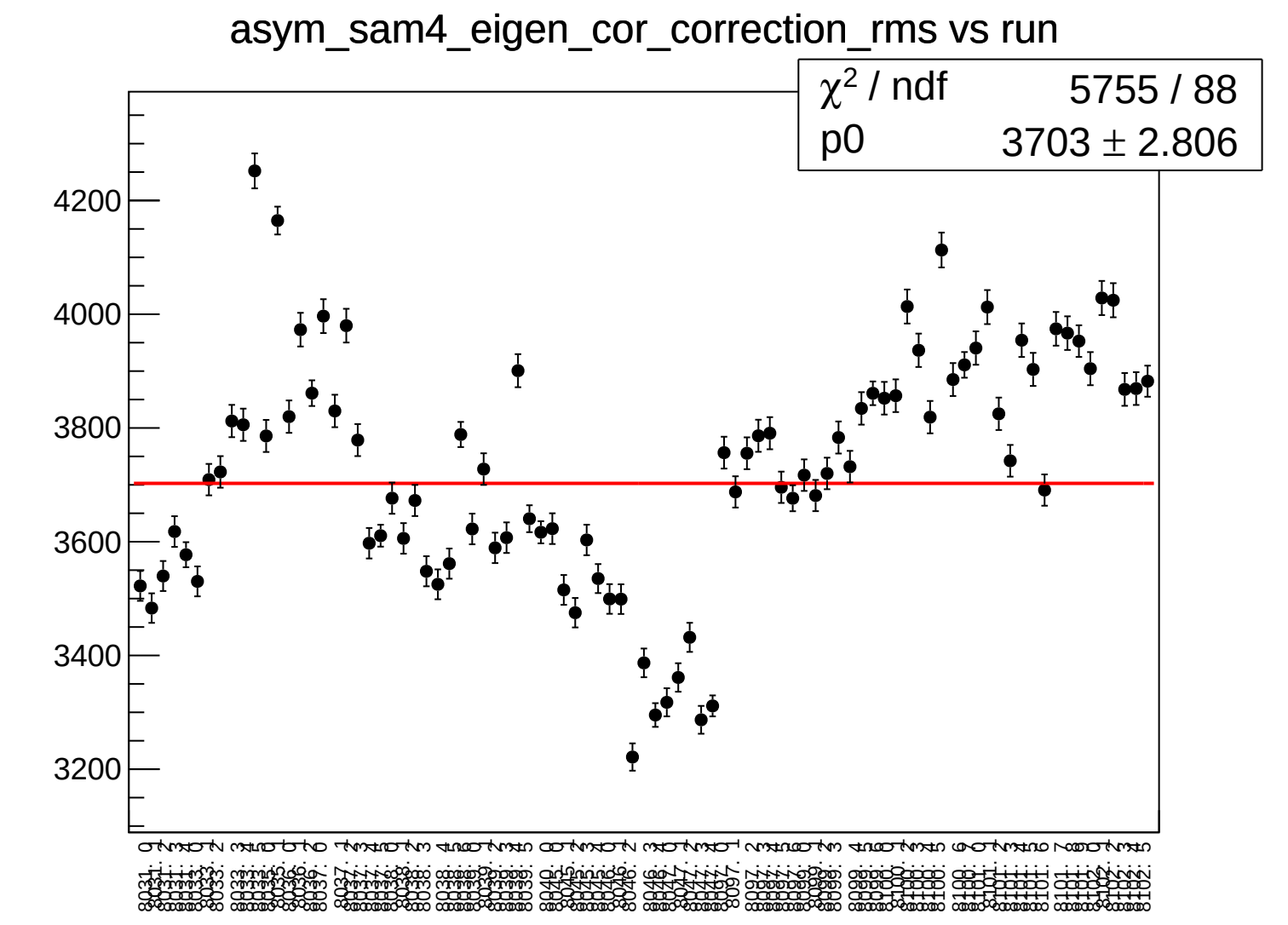

eigen_cor_asym_sam4_mean vs run
χ² / ndf 75.43 / 88
p0 49.36 ± 292.8
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 50.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

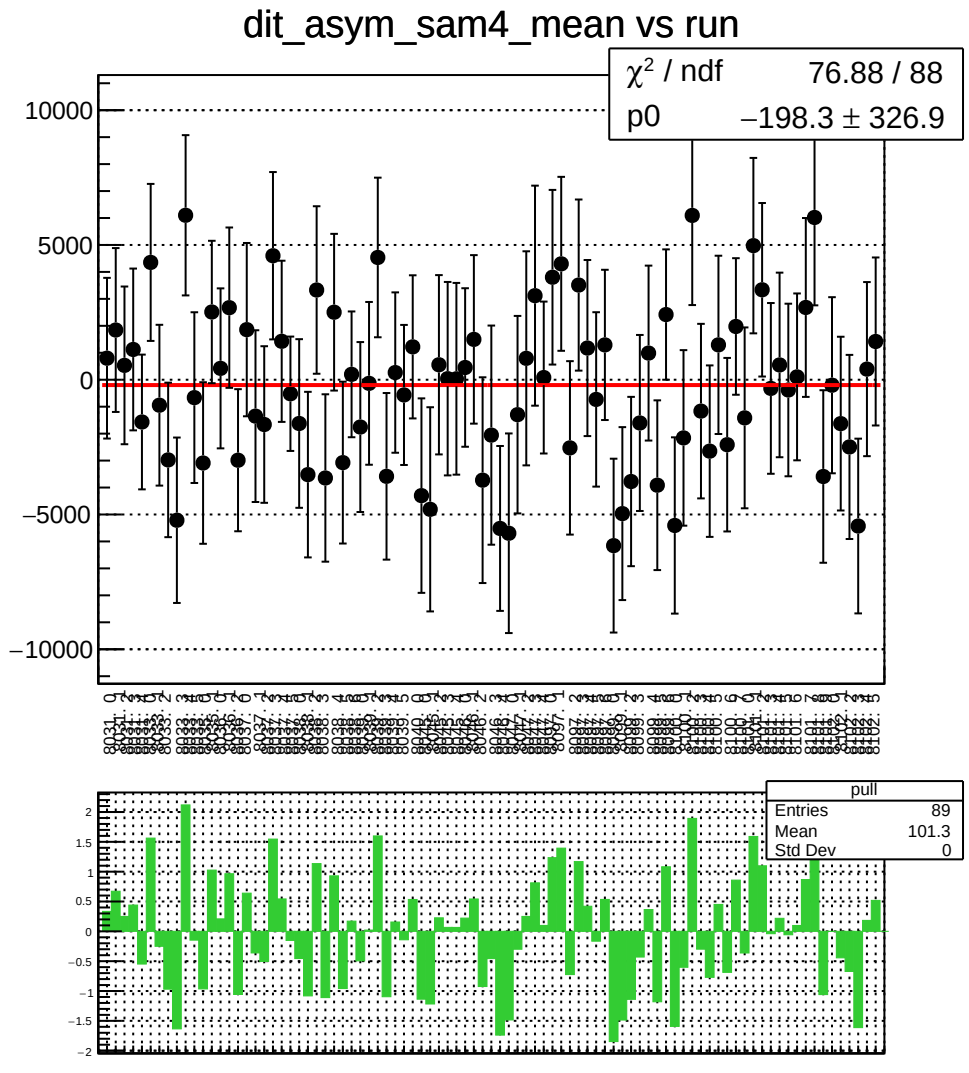

pull1D
Entries 89
Mean −0.009243
Std Dev 0.9206
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

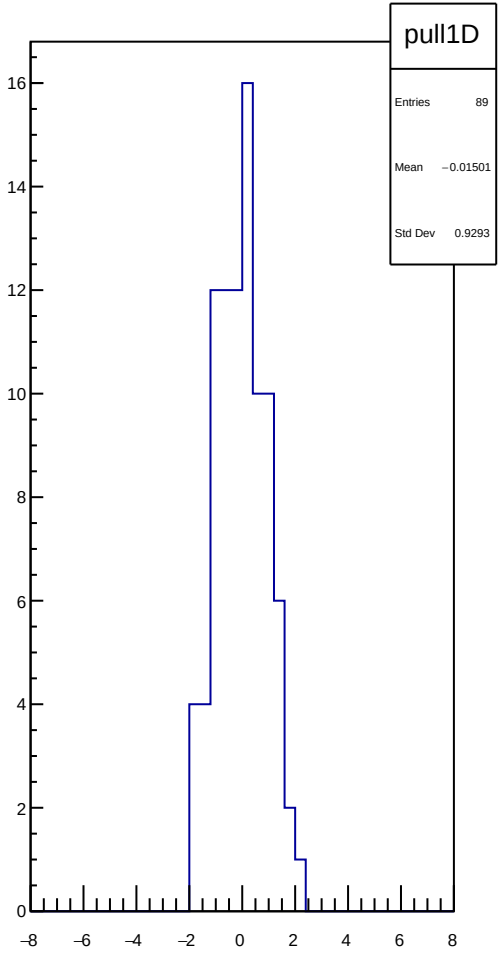

eigen_cor_asym_sam4_rms vs run
χ² / ndf 7112 / 88
p0 273.1 ± 0.207
320
300
280
260
240

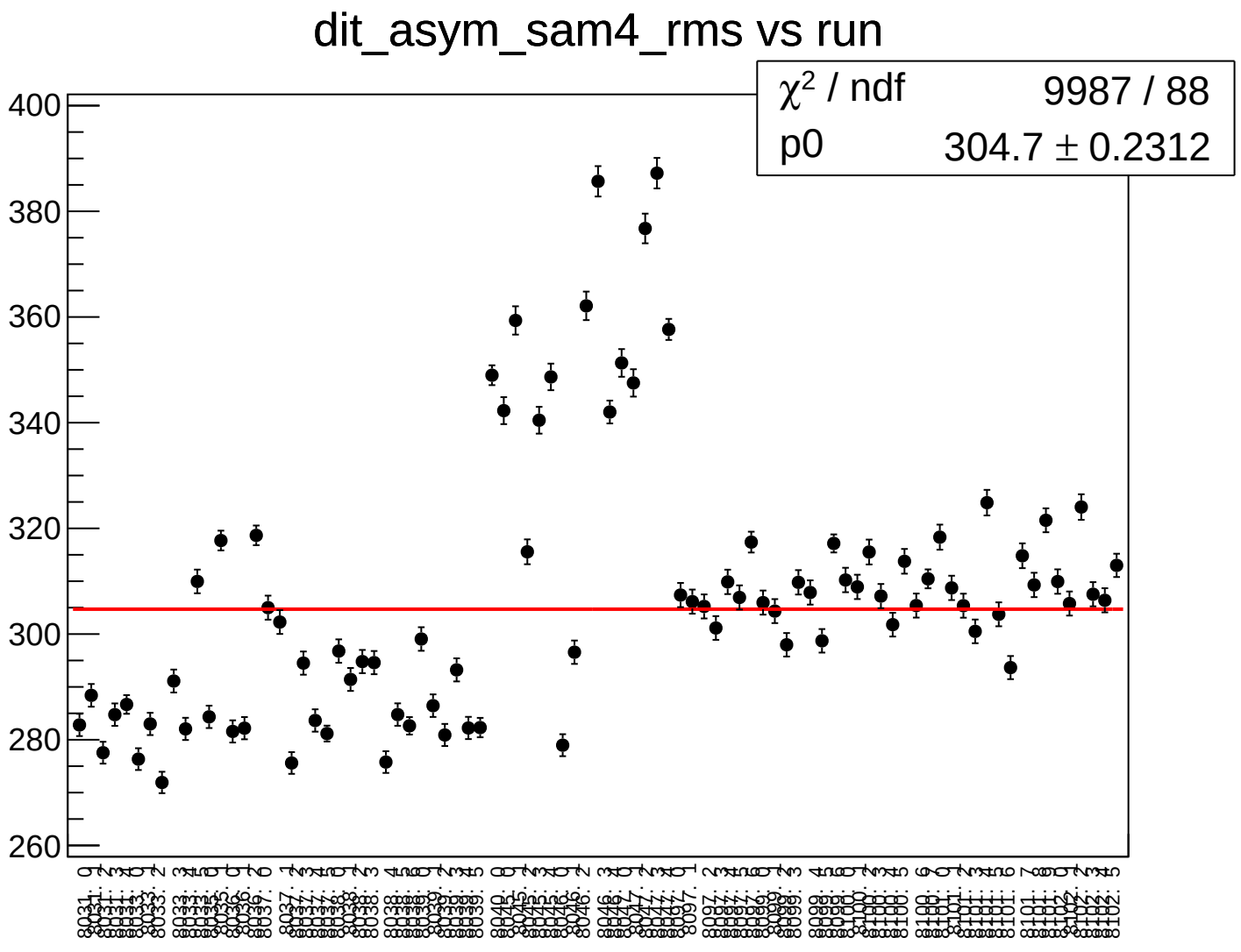

asym_sam4_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 57.55 / 88
p0 −4509 ± 3968
100
50
0
−50
−100
−150
pull
Entries 89
Mean 266.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

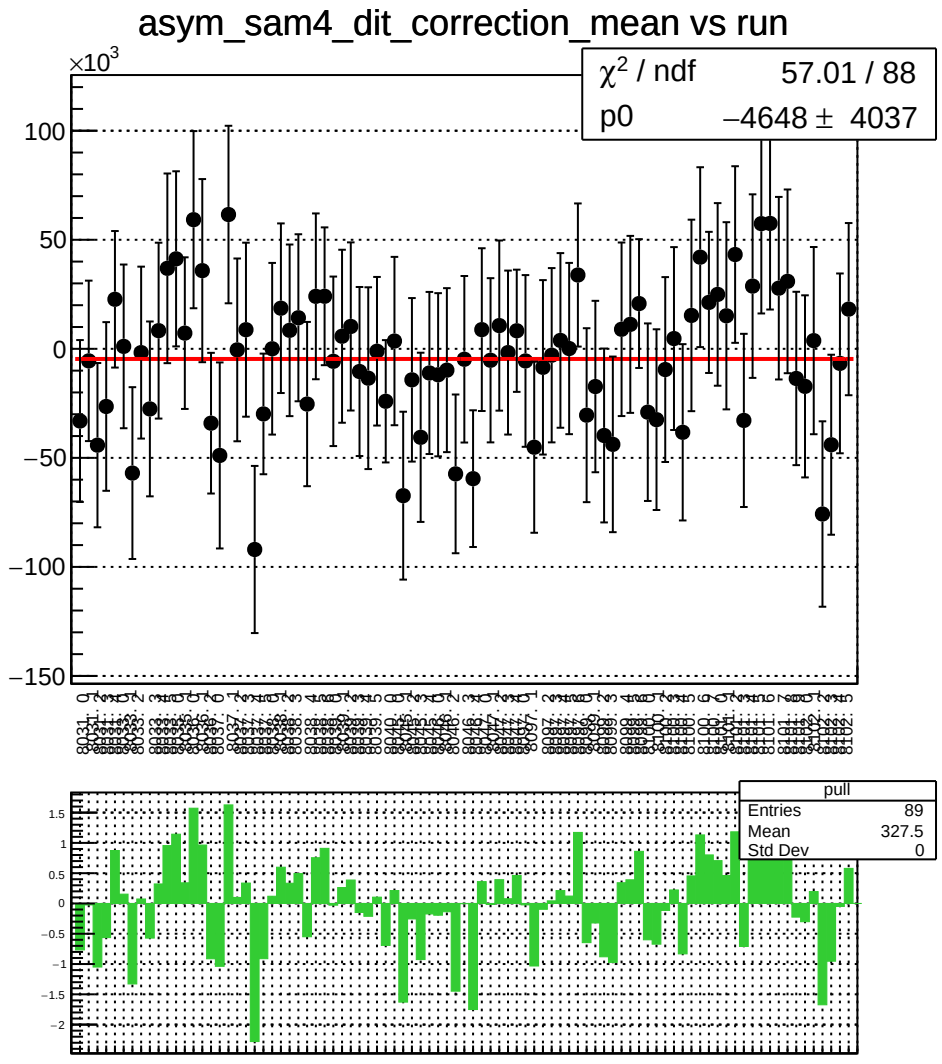

pull1D
Entries 89
Mean 0.008889
Std Dev 0.8041
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

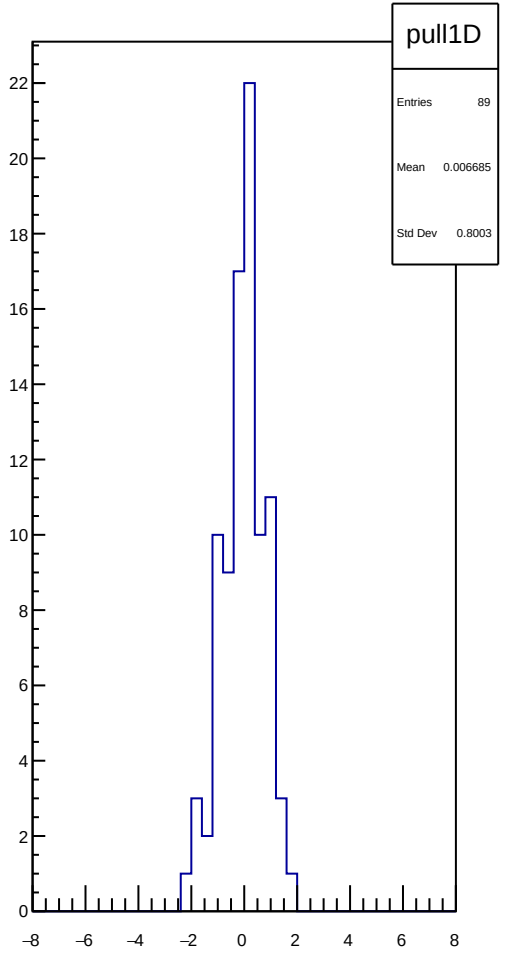

asym_sam4_eigen_cor_correction_rms vs run
χ² / ndf 5755 / 88
p0 3703 ± 2.806
4200
4000
3800
3600
3400
3200

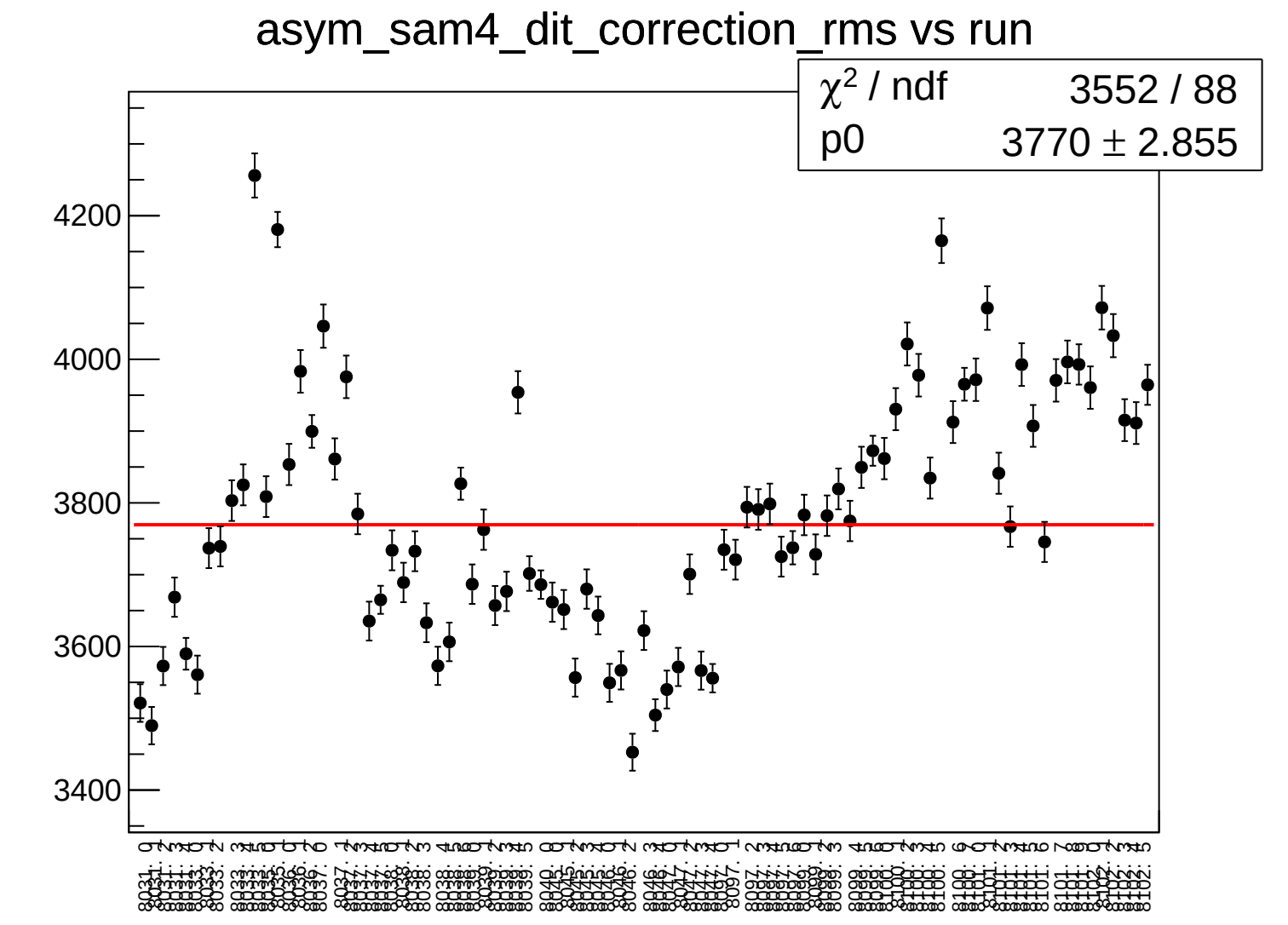

dit_asym_sam4_mean vs run
χ² / ndf 76.88 / 88
p0 −198.3 ± 326.9
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 101.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

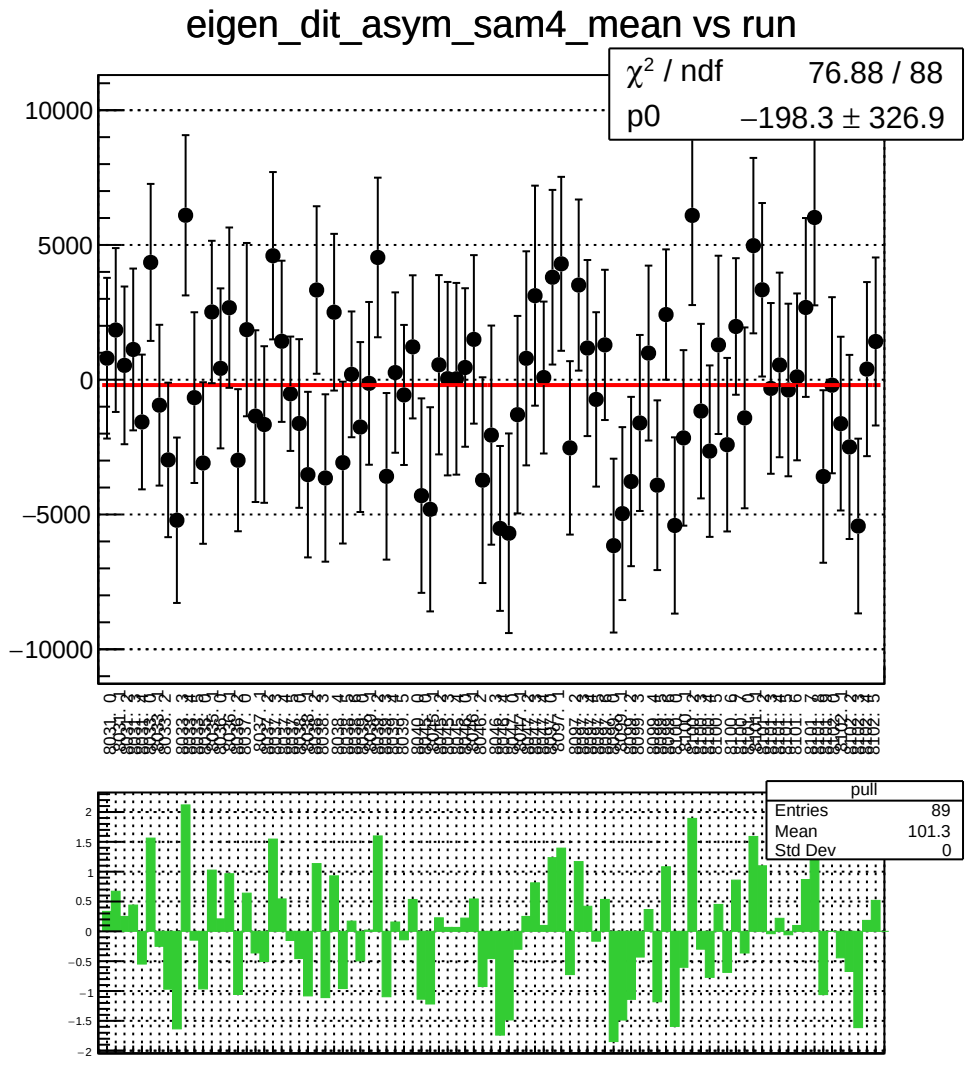

pull1D
Entries 89
Mean −0.01501
Std Dev 0.9293
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

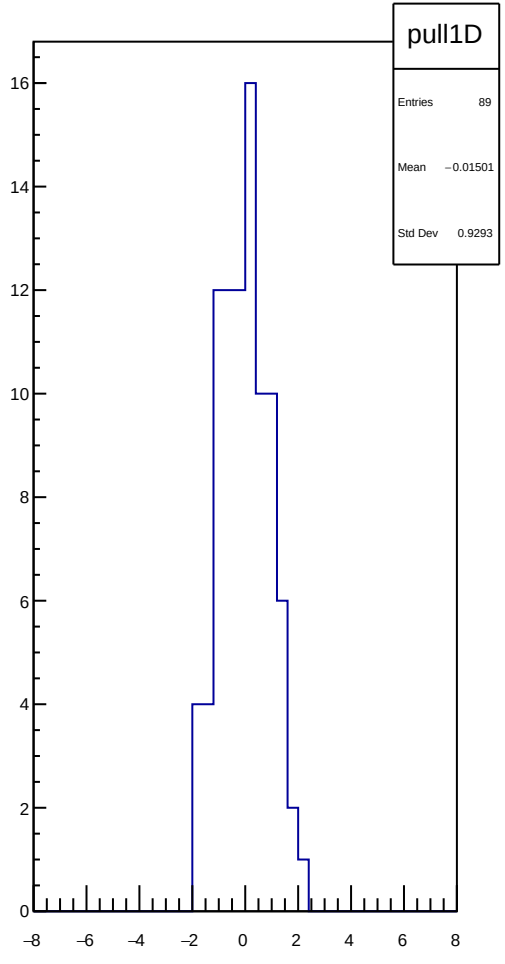

dit_asym_sam4_rms vs run
χ² / ndf 9987 / 88
p0 304.7 ± 0.2312
400
380
360
340
320
300
280
260

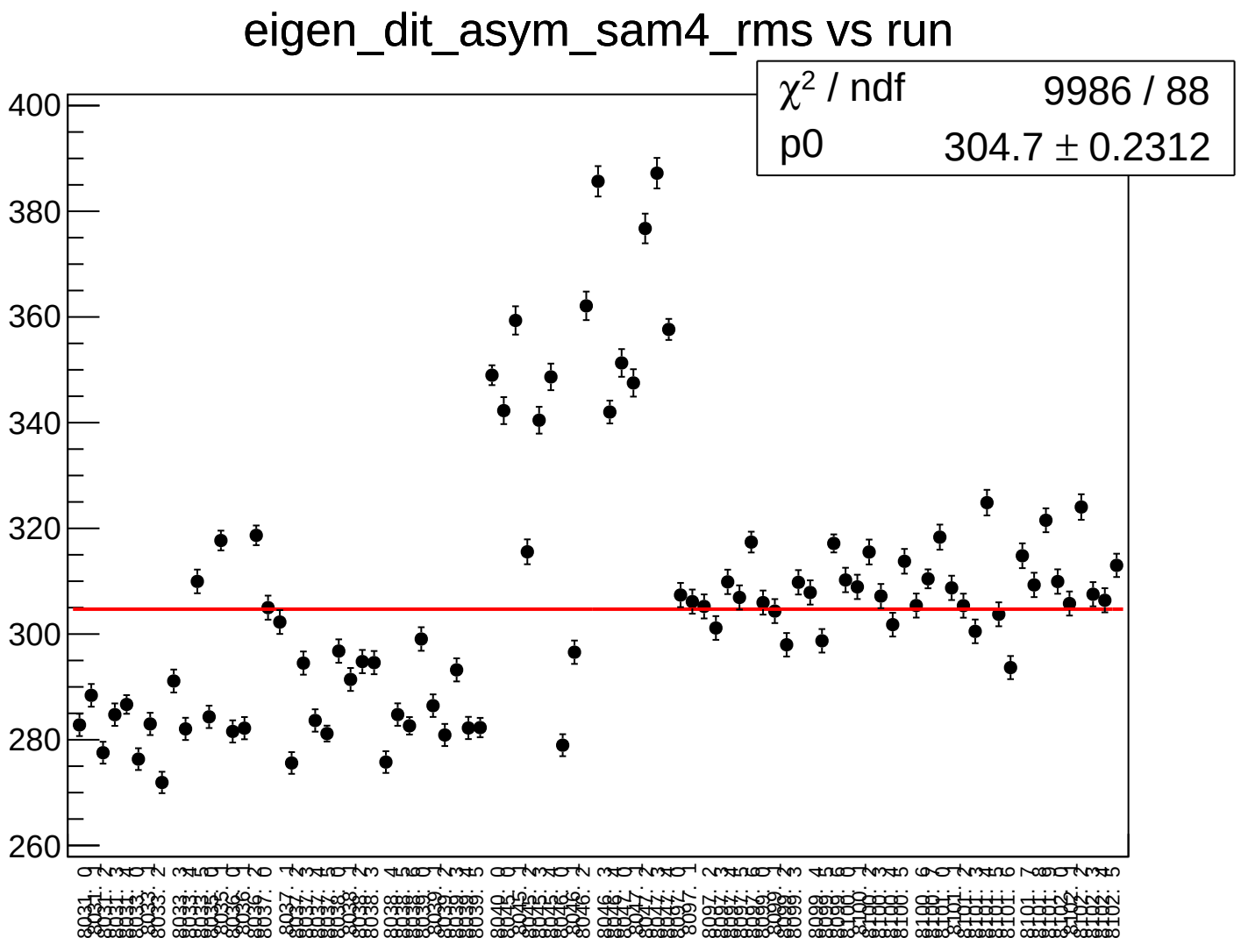

asym_sam4_dit_correction_mean vs run
×10^3
χ^2 / ndf 57.01 / 88
p0 −4648 ± 4037
100
50
0
−50
−100
−150
pull
Entries 89
Mean 327.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

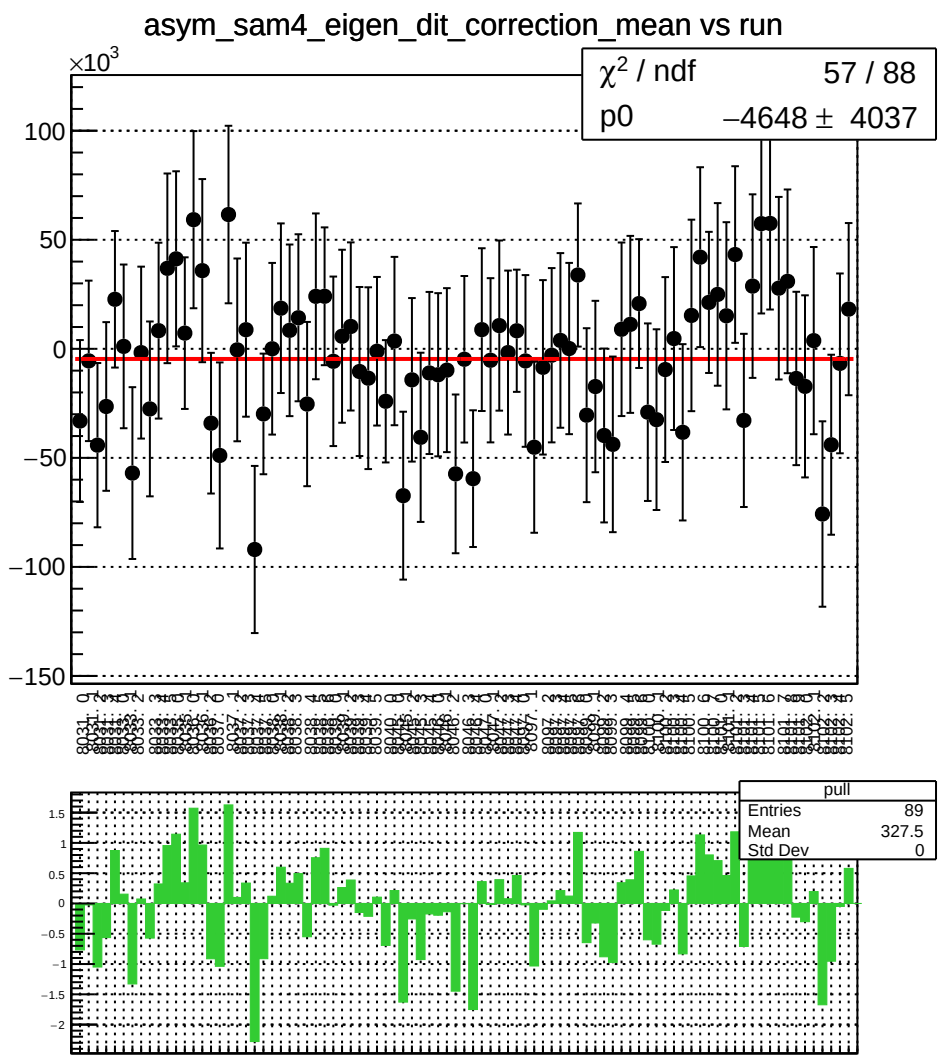

pull1D
Entries 89
Mean 0.006685
Std Dev 0.8003
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

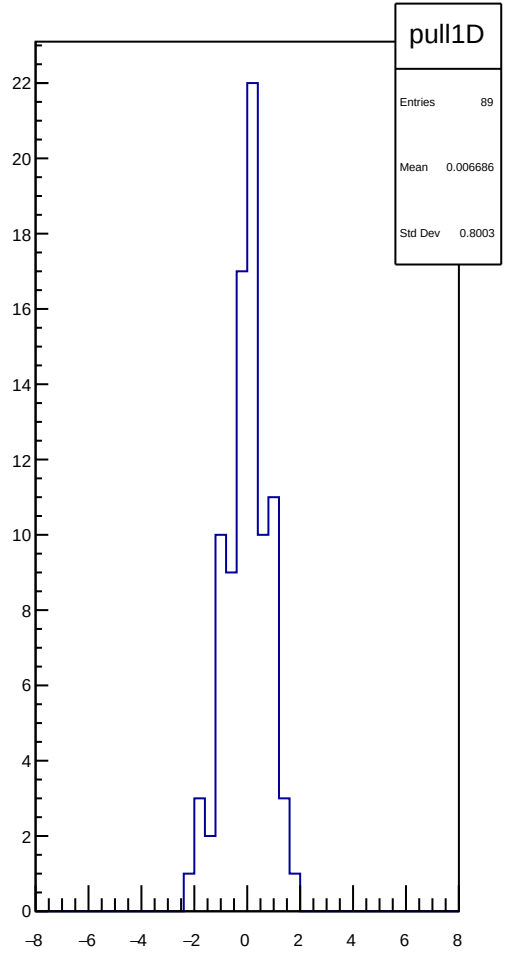

asym_sam4_dit_correction_rms vs run
χ² / ndf 3552 / 88
p0 3770 ± 2.855
4200
4000
3800
3600
3400

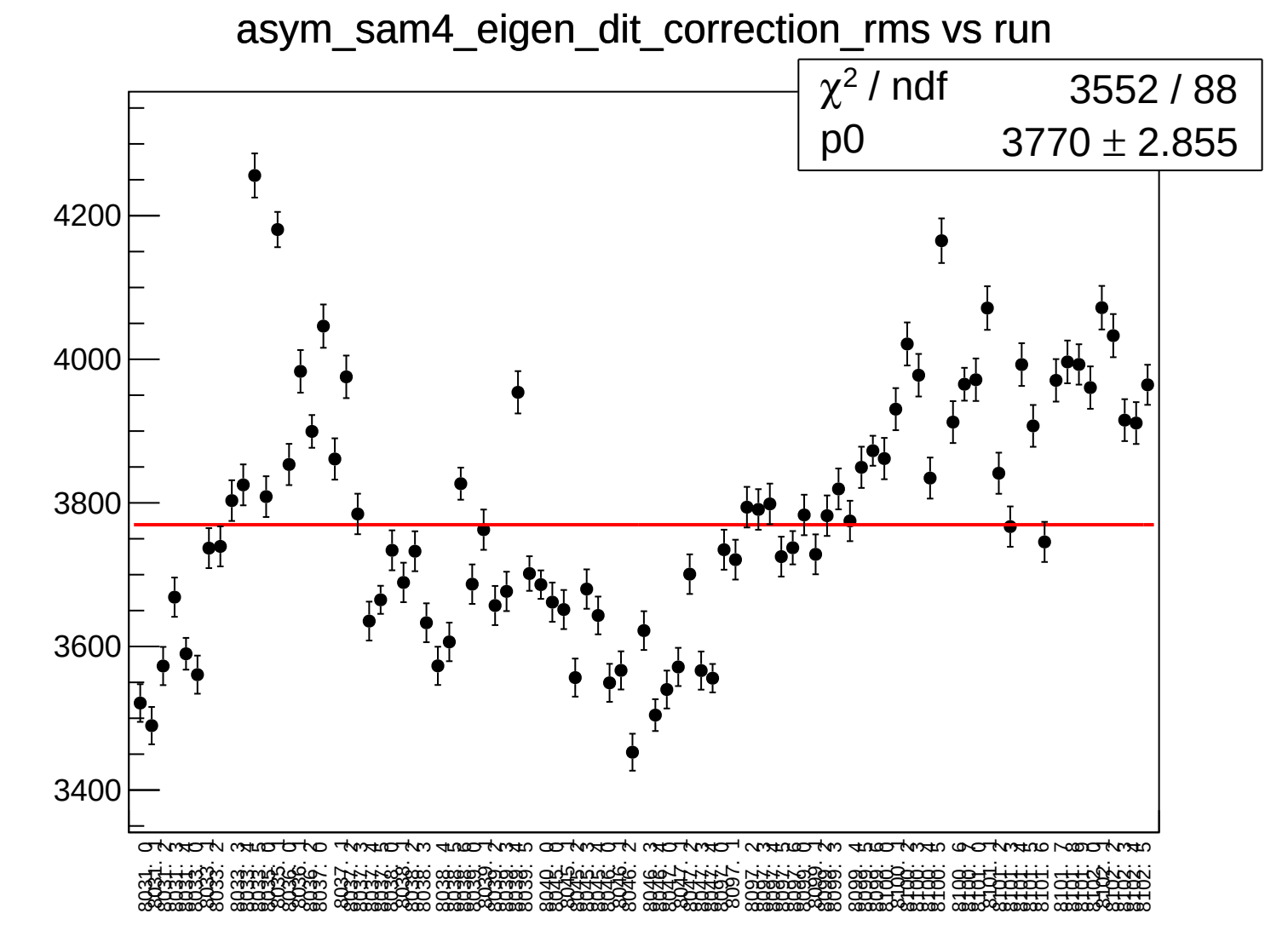

eigen_dit_asym_sam4_mean vs run
χ² / ndf 76.88 / 88
p0 −198.3 ± 326.9
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 101.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

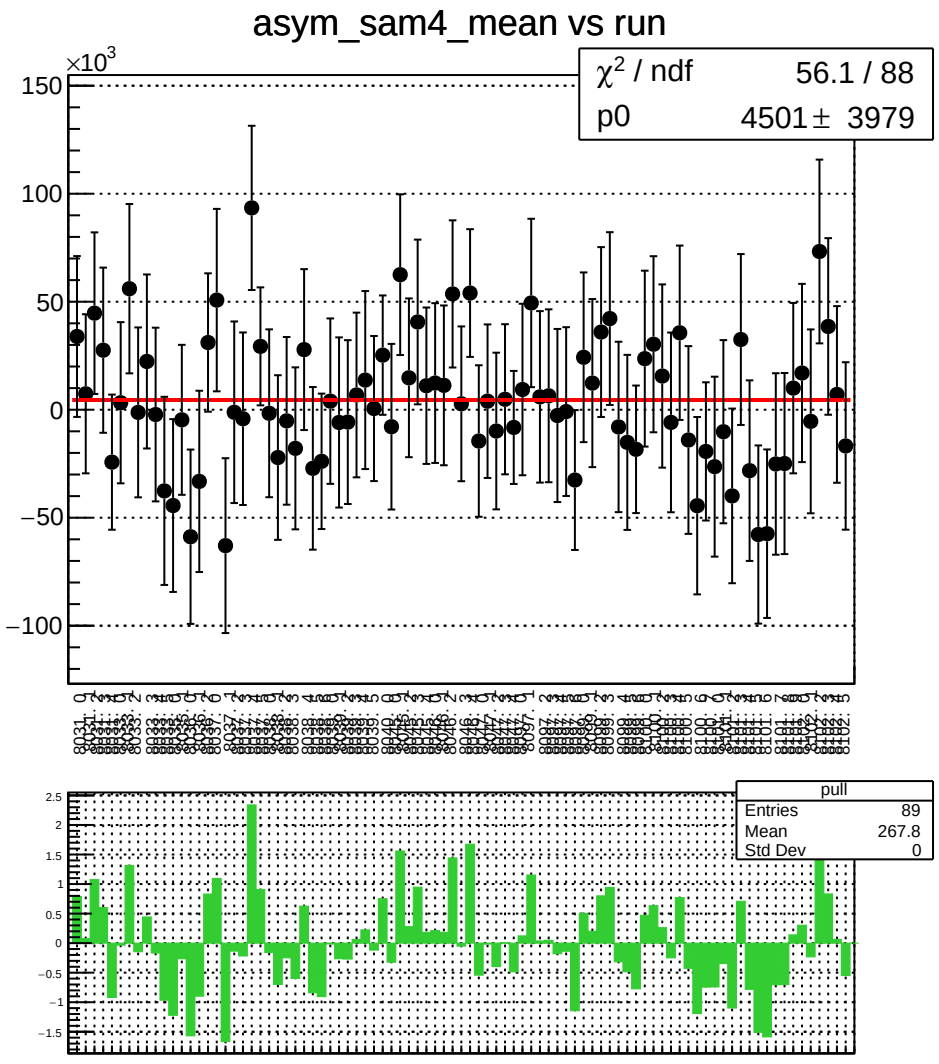

pull1D
Entries 89
Mean −0.01501
Std Dev 0.9293
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

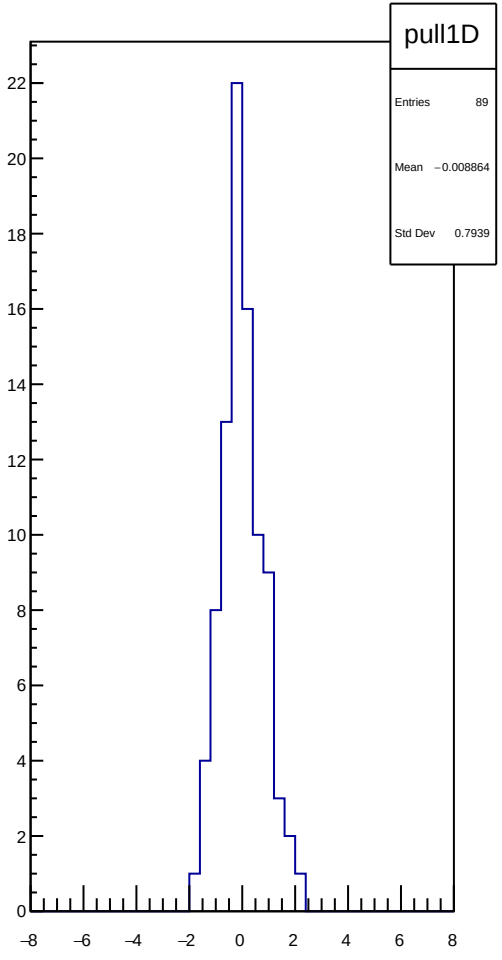

eigen_dit_asym_sam4_rms vs run
χ² / ndf 9986 / 88
p0 304.7 ± 0.2312
400
380
360
340
320
300
280
260

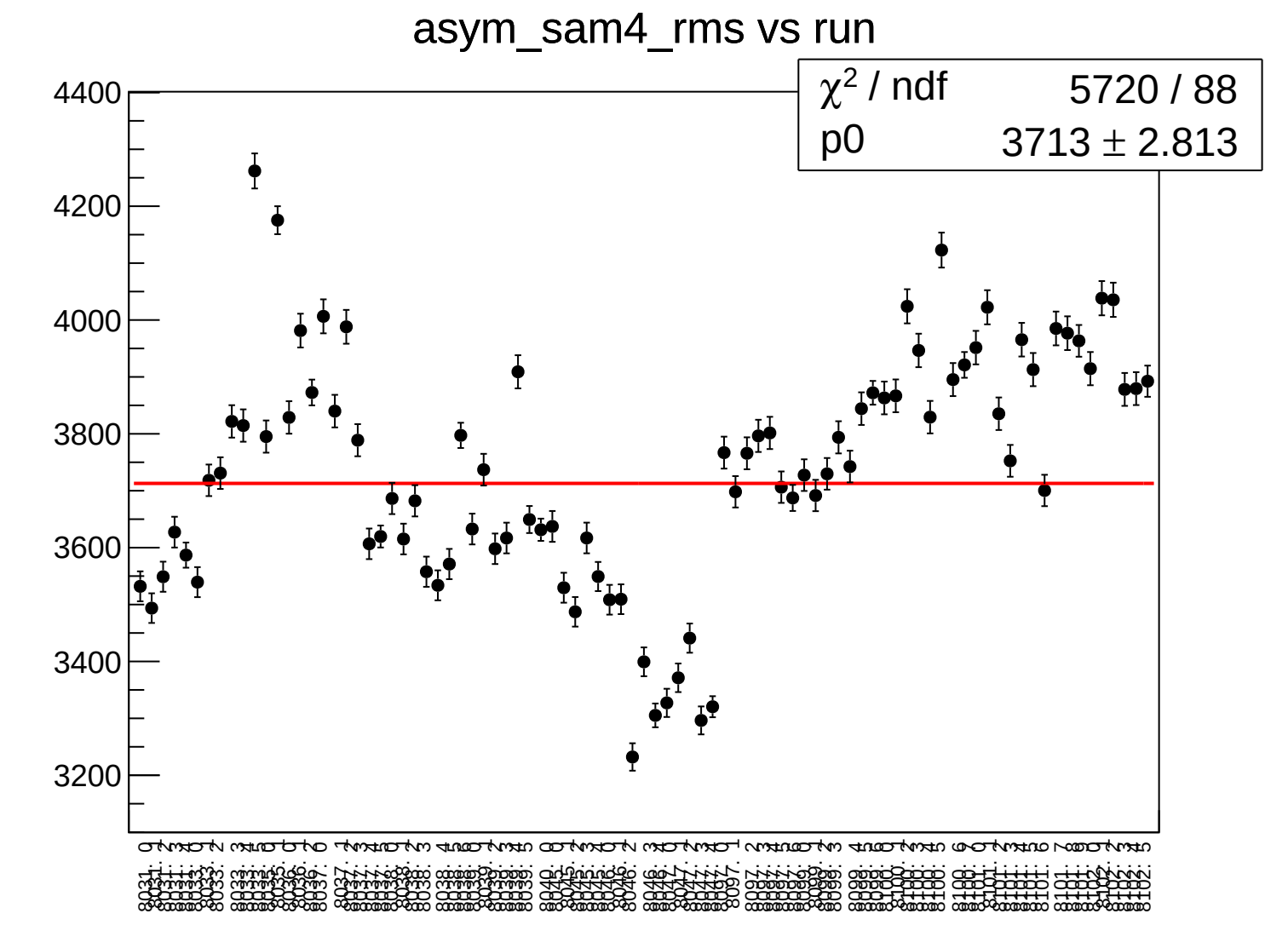

asym_sam4_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 57 / 88
p0 −4648 ± 4037
100
50
0
−50
−100
−150
pull
Entries 89
Mean 327.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

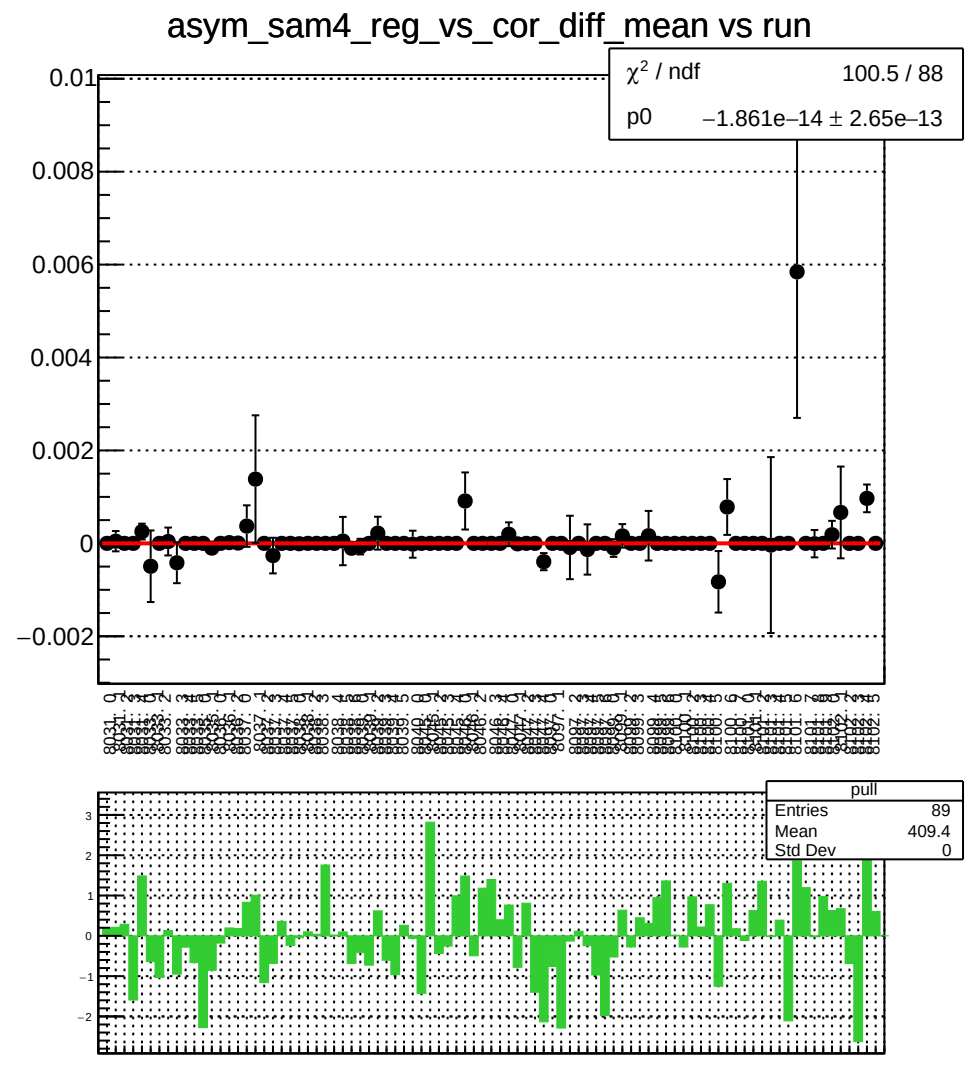

pull1D
Entries 89
Mean 0.006686
Std Dev 0.8003
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

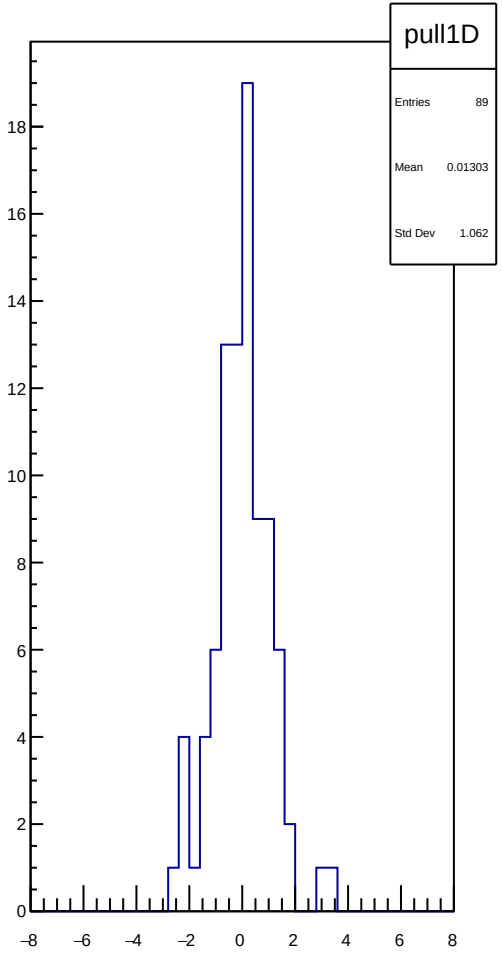

asym_sam4_eigen_dit_correction_rms vs run
χ² / ndf 3552 / 88
p0 3770 ± 2.855
4200
4000
3800
3600
3400

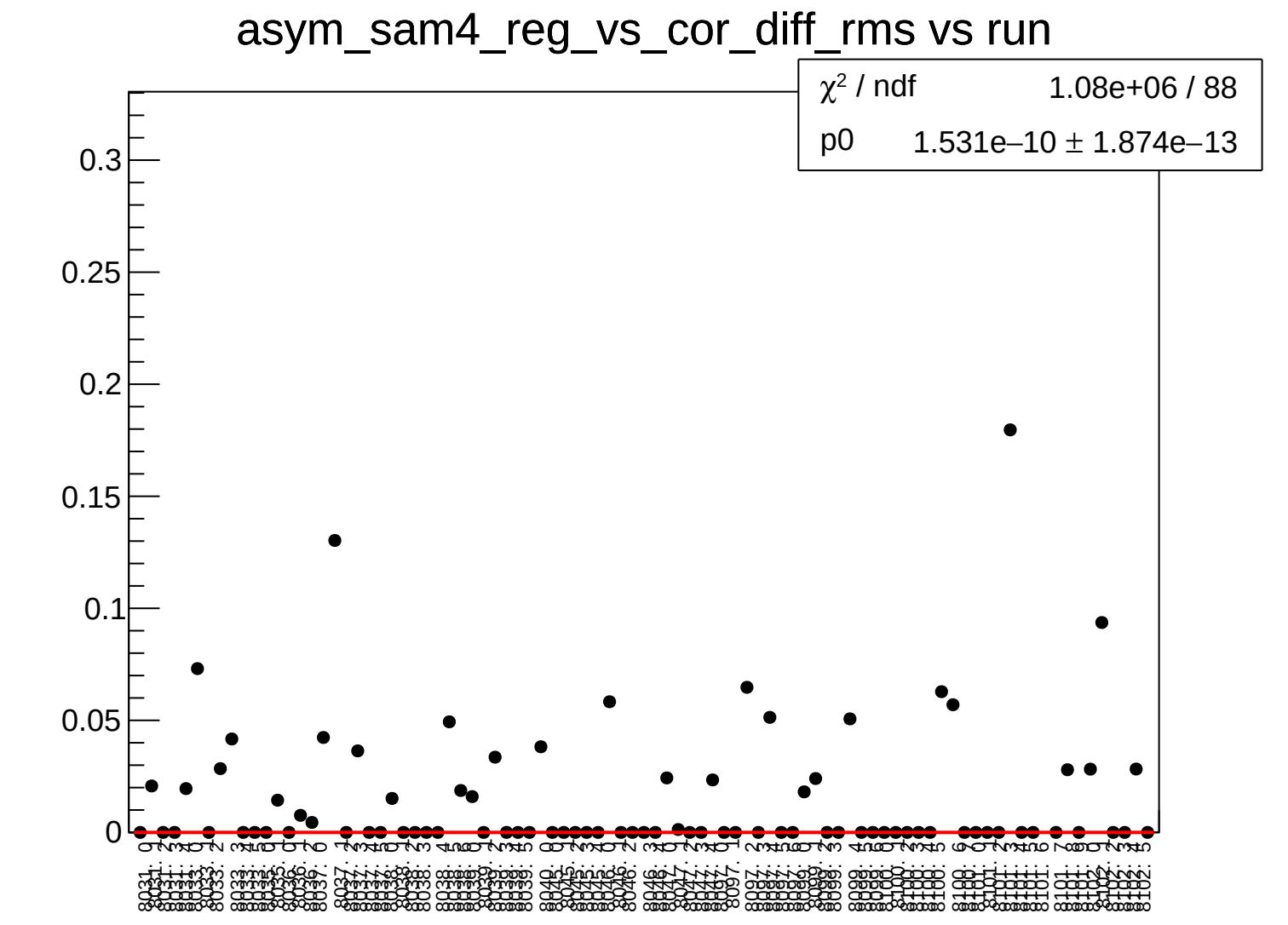

asym_sam4_mean vs run
×10^3
χ^2 / ndf 56.1 / 88
p0 4501 ± 3979
150
100
50
0
−50
−100
pull
Entries 89
Mean 267.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

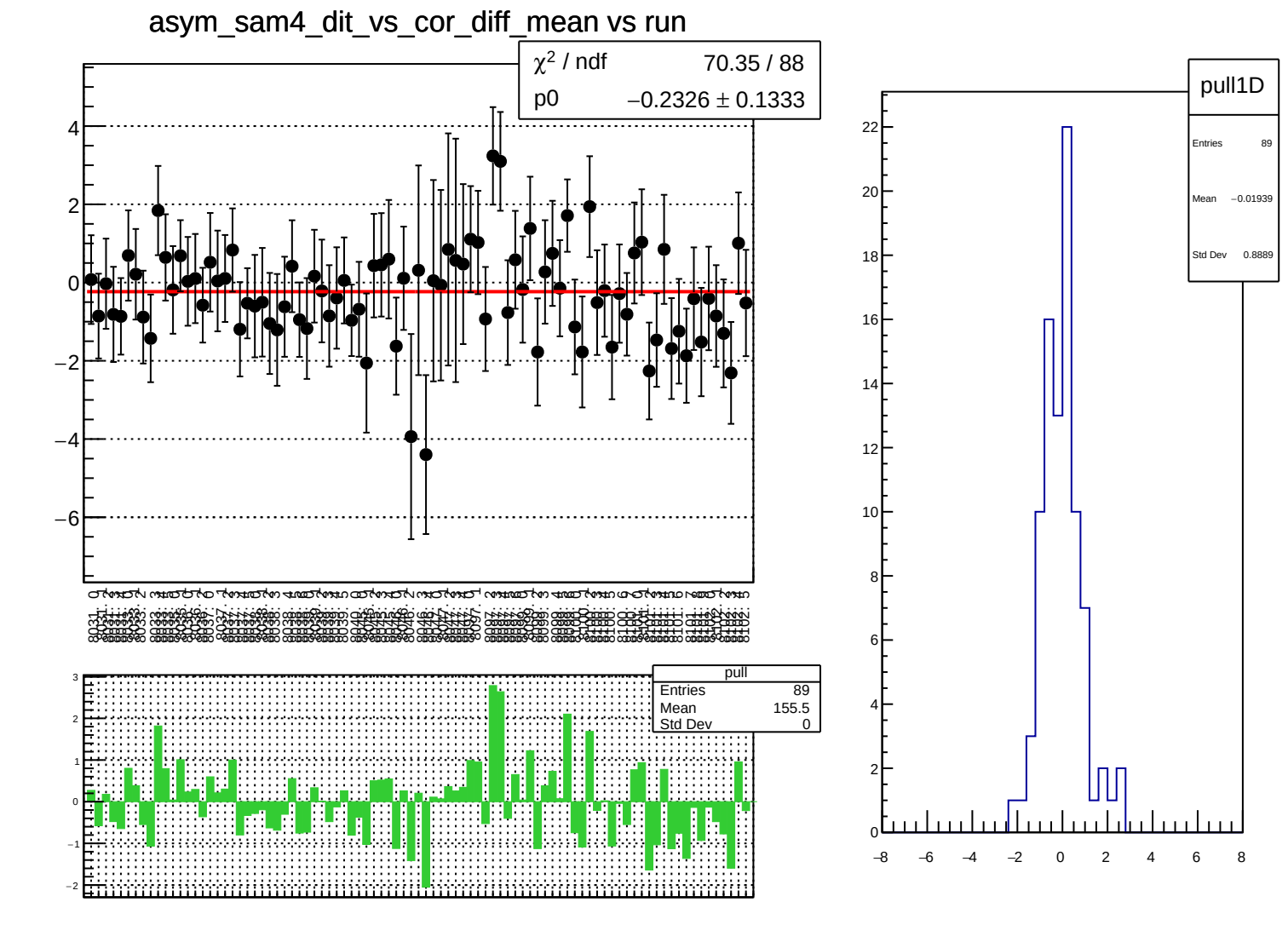

pull1D
Entries 89
Mean −0.008864
Std Dev 0.7939
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

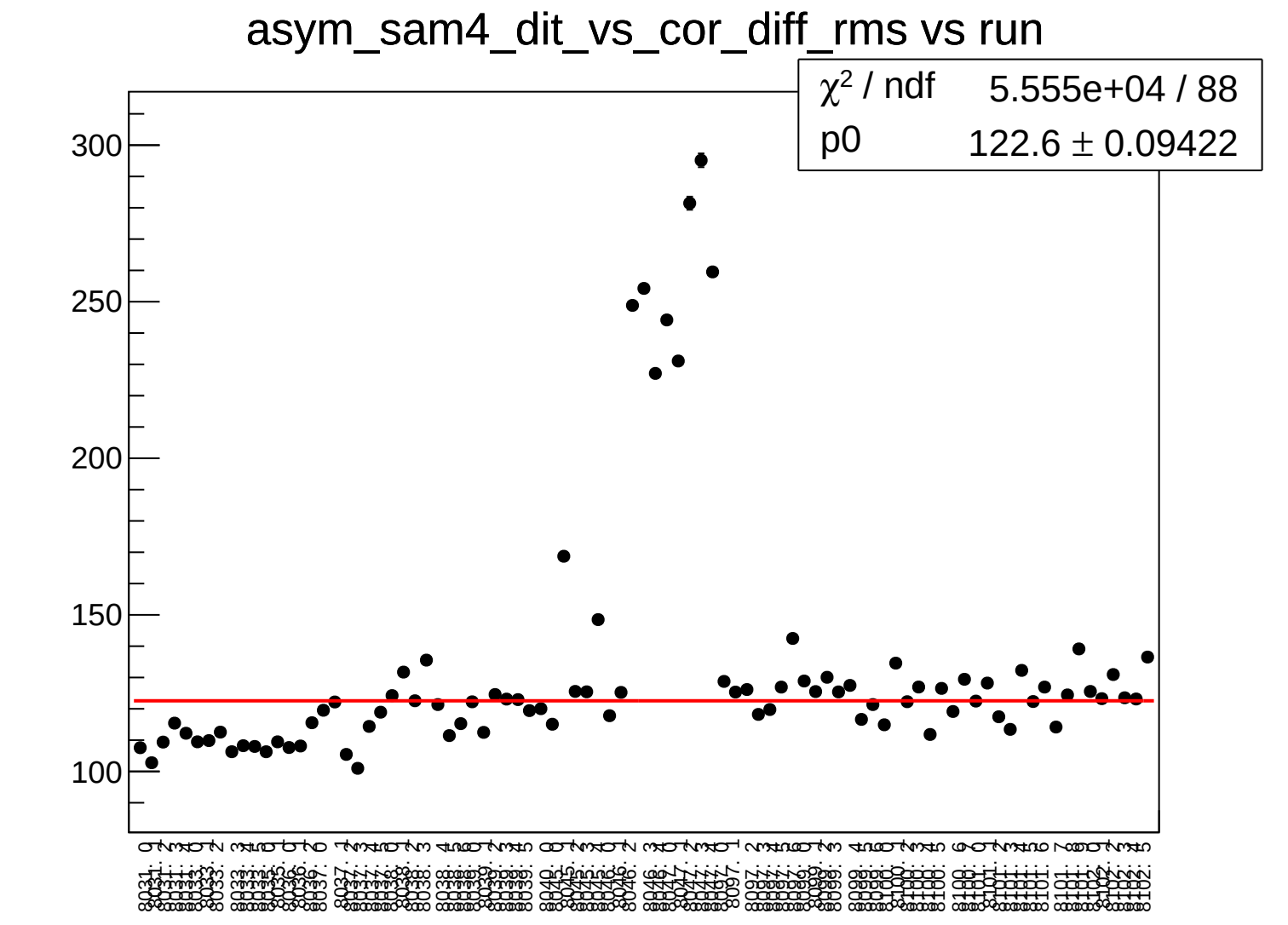

asym_sam4_rms vs run
χ² / ndf 5720 / 88
p0 3713 ± 2.813
4400
4200
4000
3800
3600
3400
3200

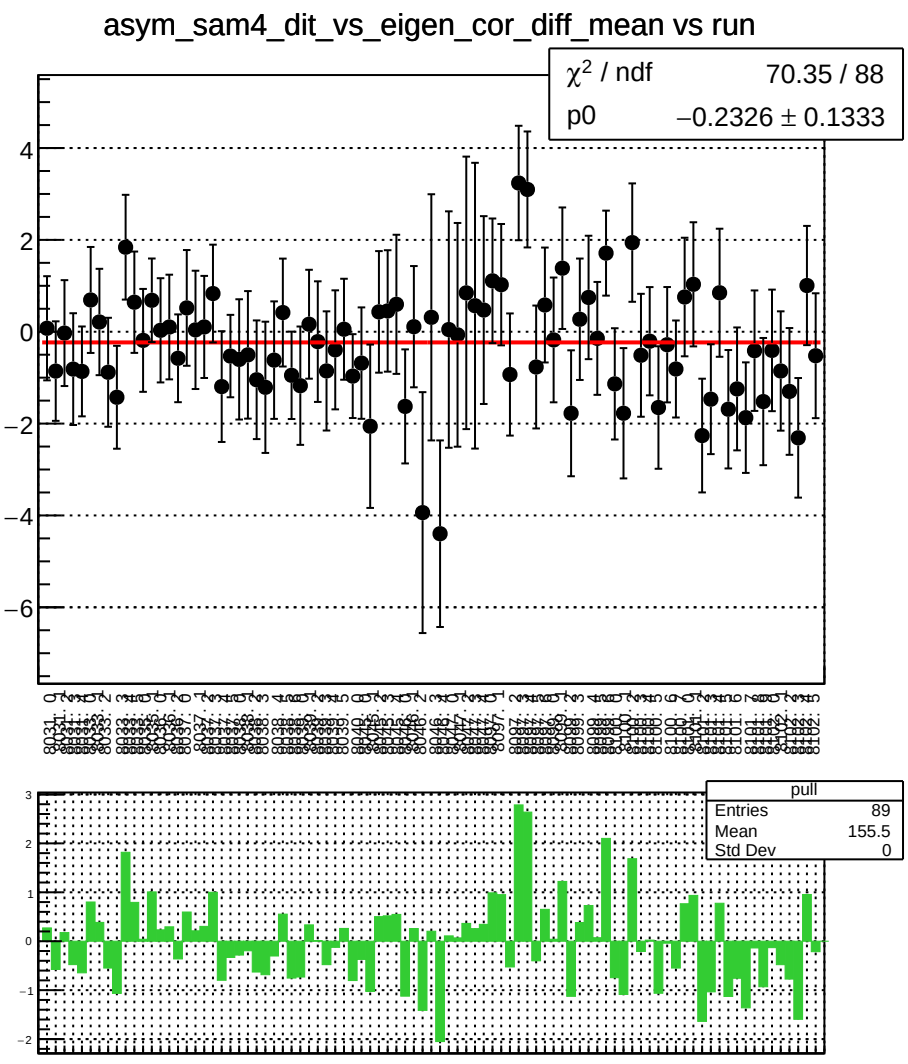

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 100.5 / 88
p0 −1.861e−14 ± 2.65e−13
0.01
0.008
0.006
0.004
0.002
0
−0.002
pull
Entries 89
Mean 409.4
Std Dev 0
3
2
1
0
−1
−2

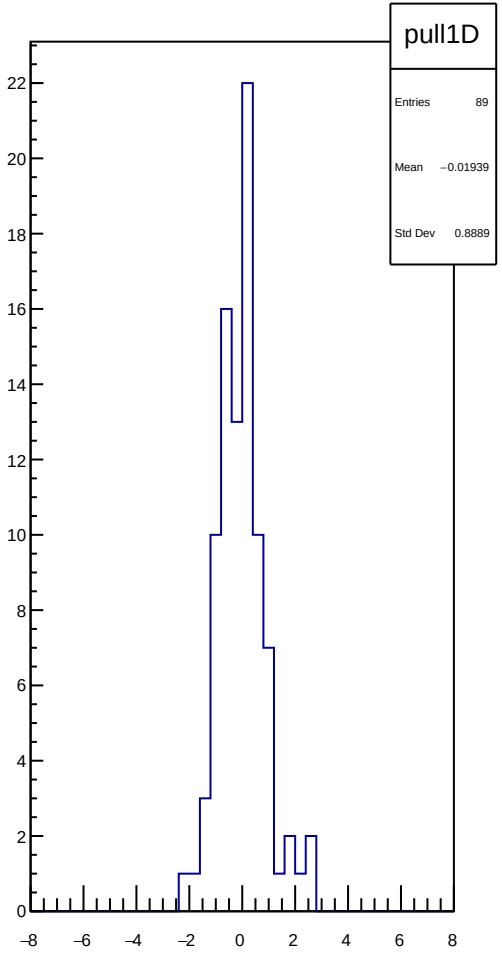

pull1D
Entries 89
Mean 0.01303
Std Dev 1.062
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

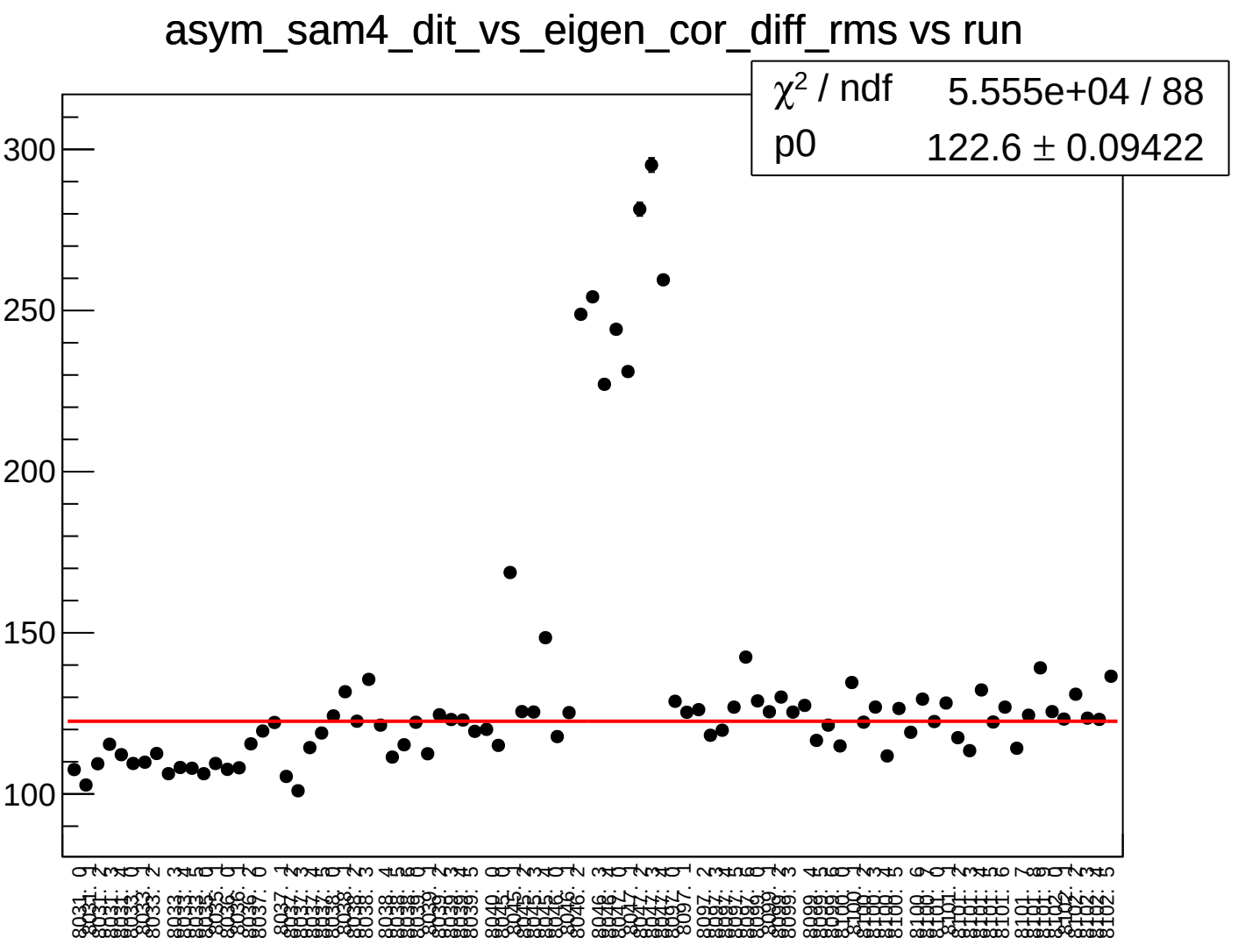

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 1.08e+06 / 88
p0 1.531e−10 ± 1.874e−13
0.3
0.25
0.2
0.15
0.1
0.05
0

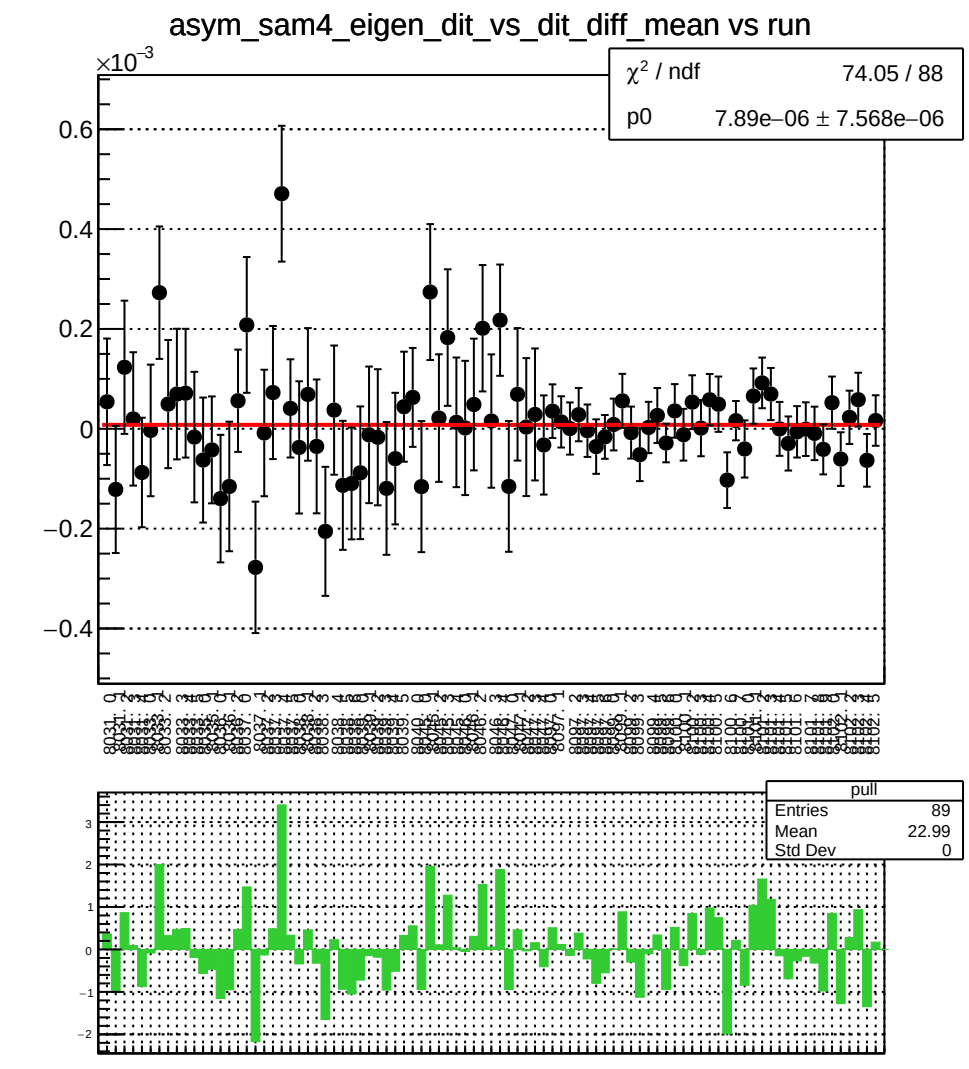

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 70.35 / 88
p0 −0.2326 ± 0.1333
pull
Entries 89
Mean 155.5
Std Dev 0
pull1D
Entries 89
Mean −0.01939
Std Dev 0.8889

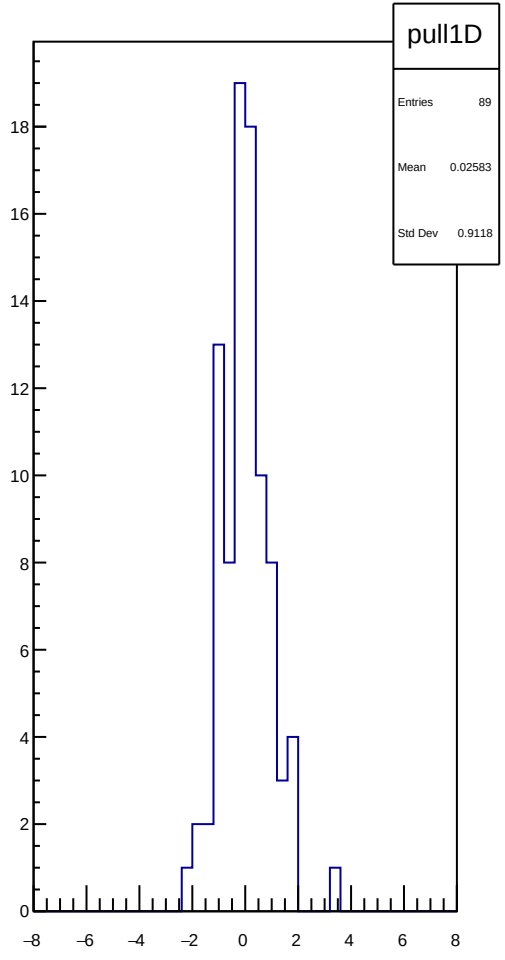

asym_sam4_dit_vs_cor_diff_rms vs run
χ² / ndf 5.555e+04 / 88
p0 122.6 ± 0.09422
300
250
200
150
100

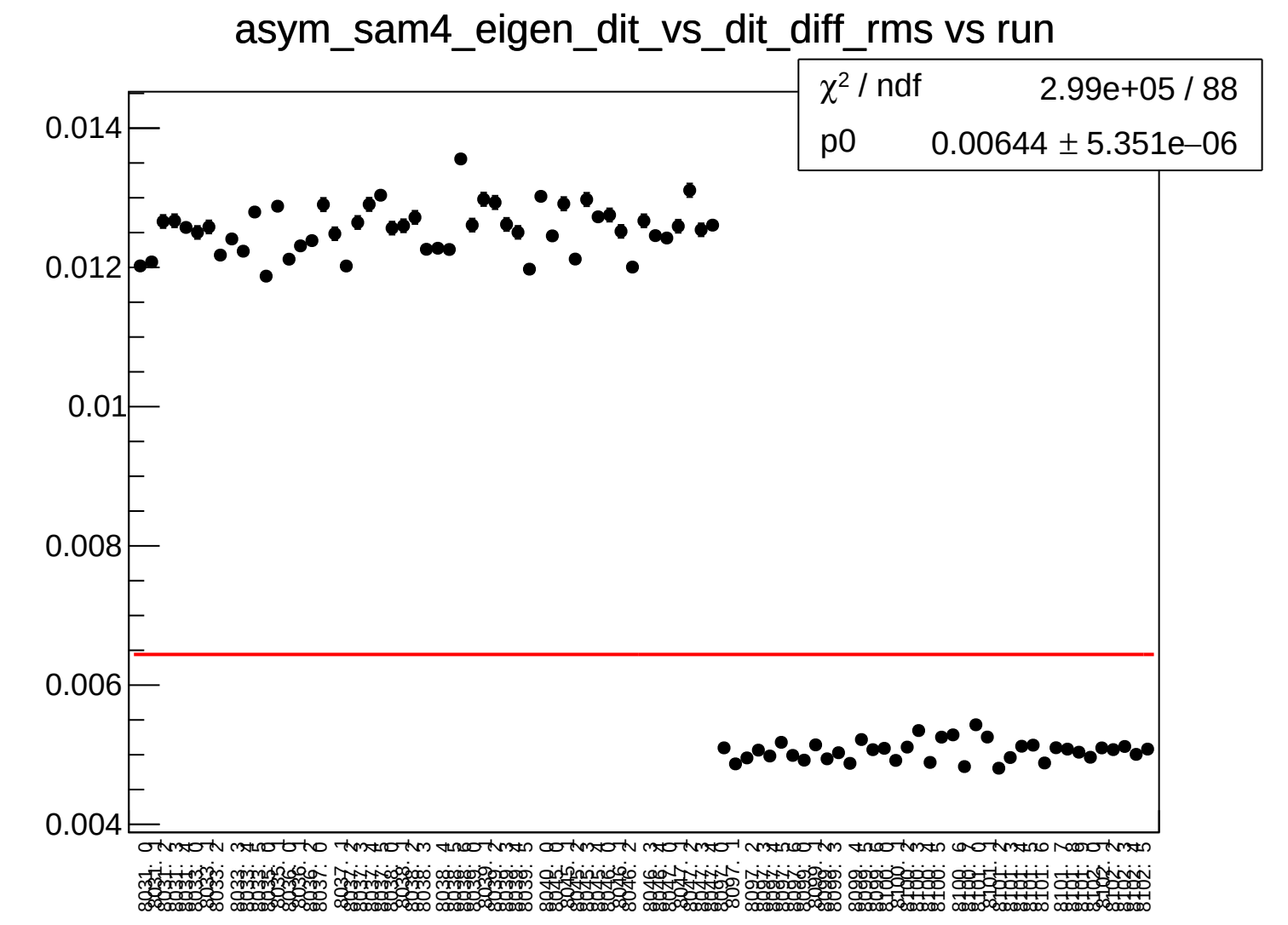

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.35 / 88
p0 −0.2326 ± 0.1333
pull
Entries 89
Mean 155.5
Std Dev 0

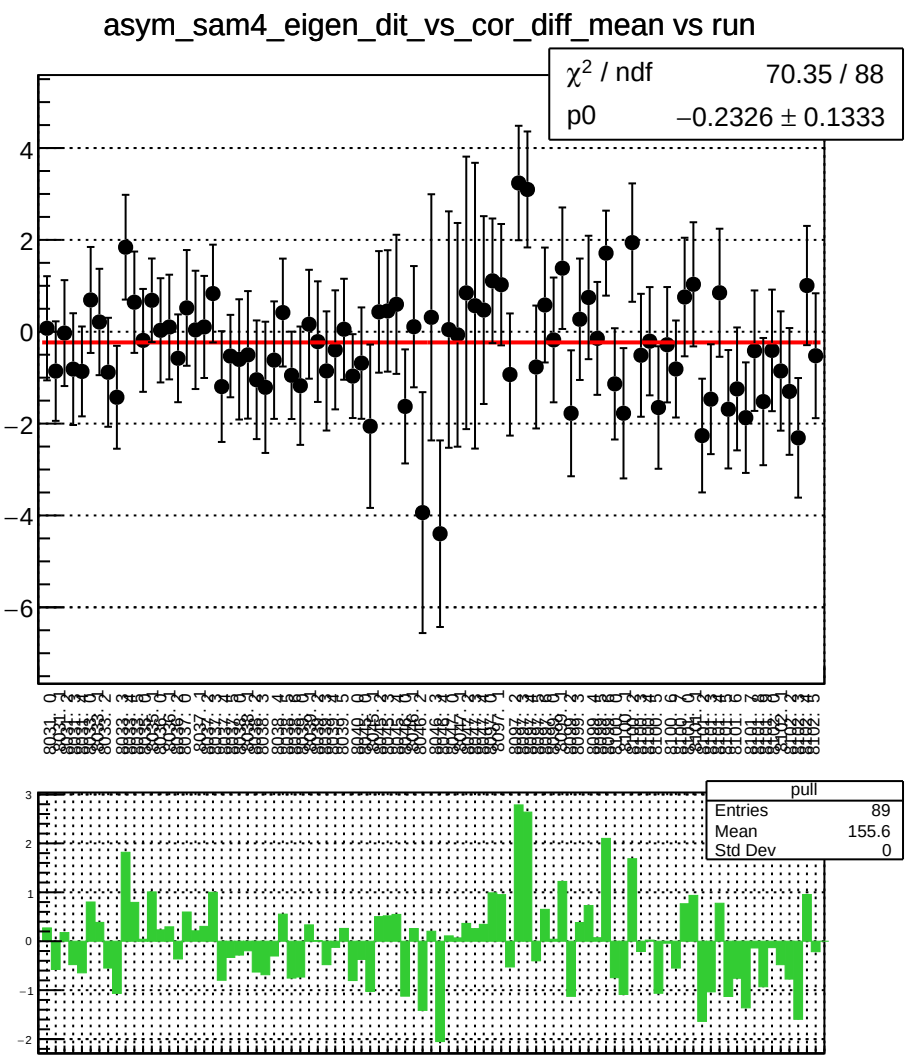

pull1D
Entries 89
Mean −0.01939
Std Dev 0.8889

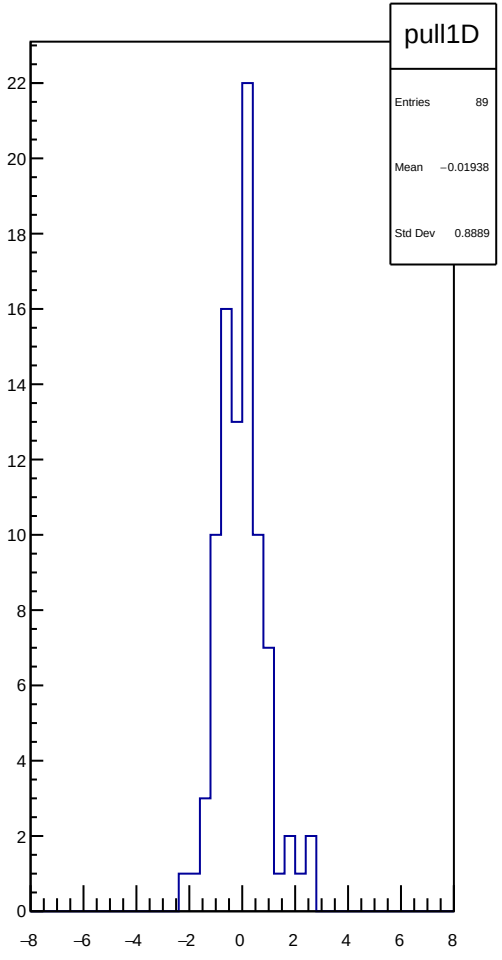

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.555e+04 / 88
p0 122.6 ± 0.09422
300
250
200
150
100

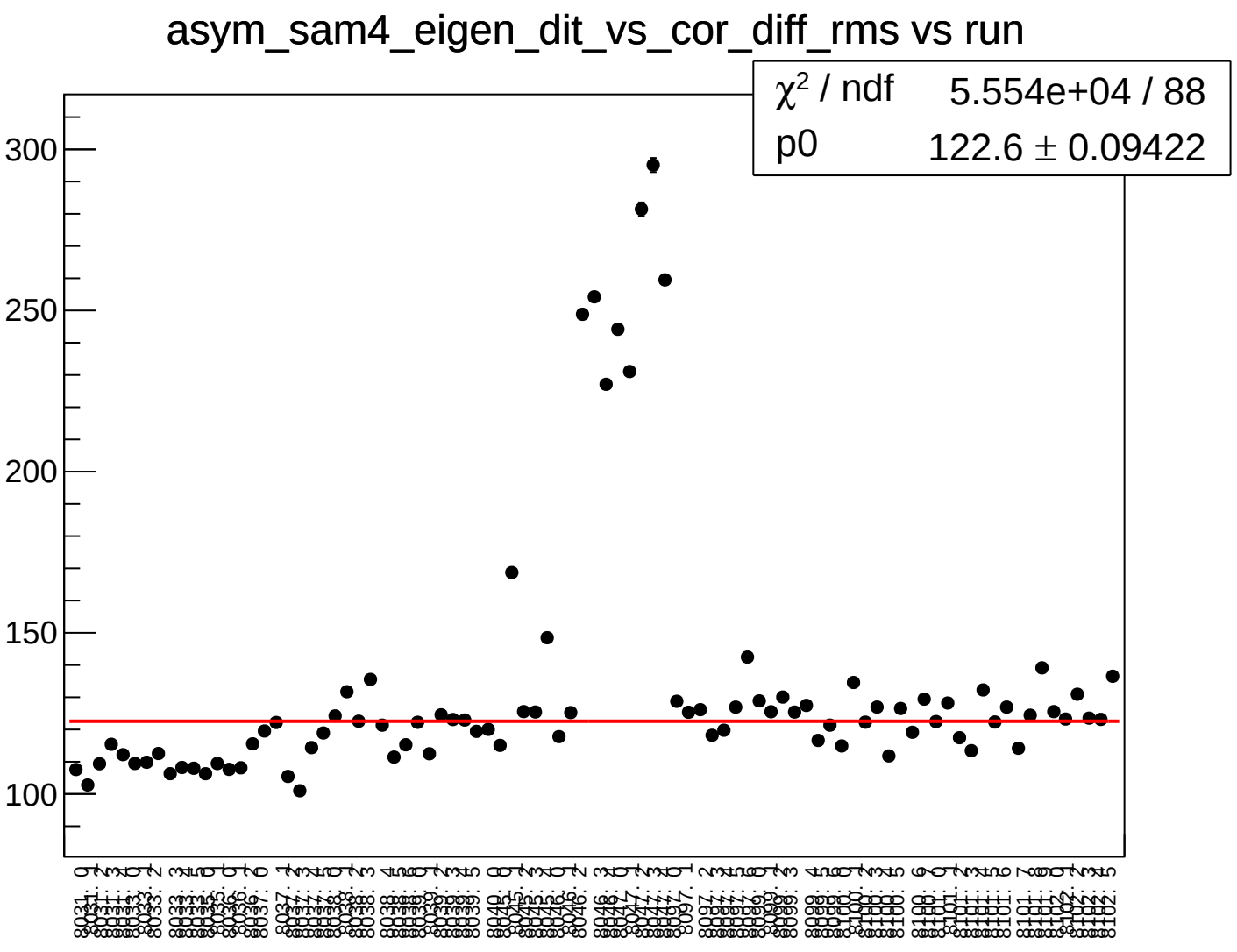

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 74.05 / 88
p0 7.89e−06 ± 7.568e−06
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 89
Mean 22.99
Std Dev 0
3
2
1
0
−1
−2

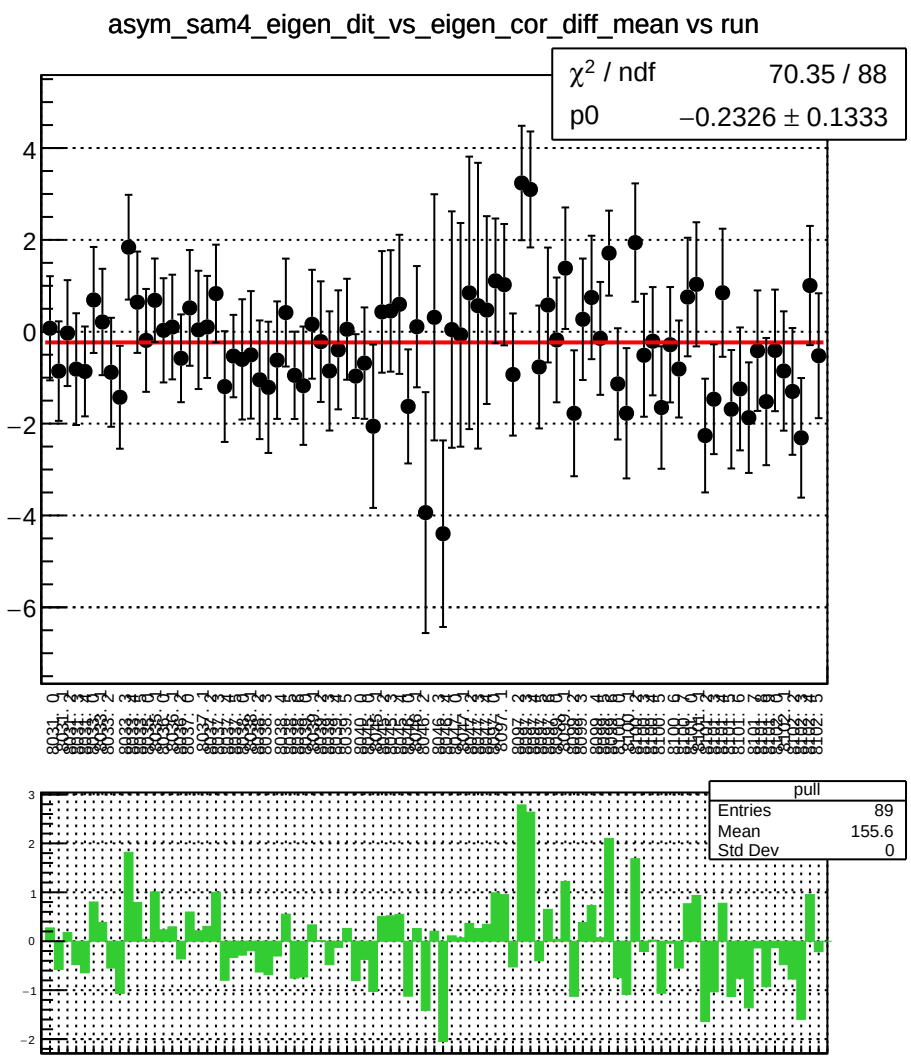

pull1D
Entries 89
Mean 0.02583
Std Dev 0.9118
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

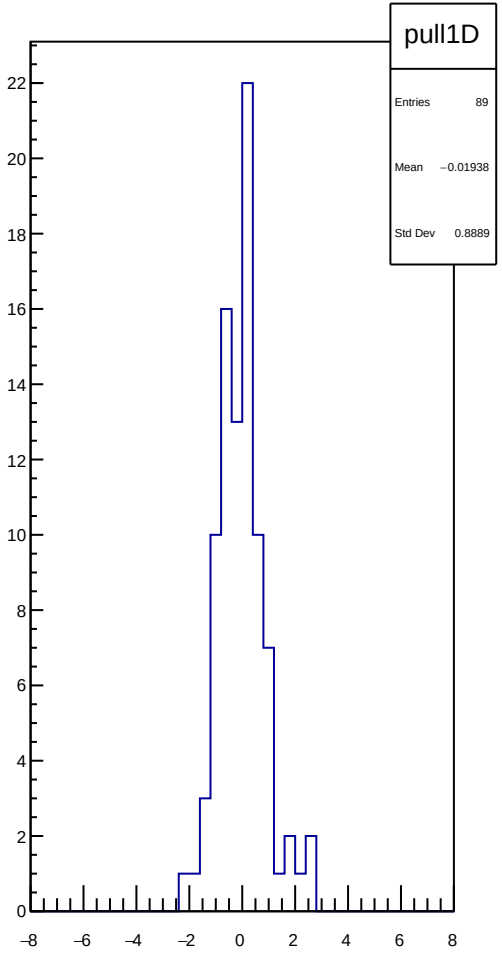

asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.99e+05 / 88
p0 0.00644 ± 5.351e–06
0.014
0.012
0.01
0.008
0.006
0.004

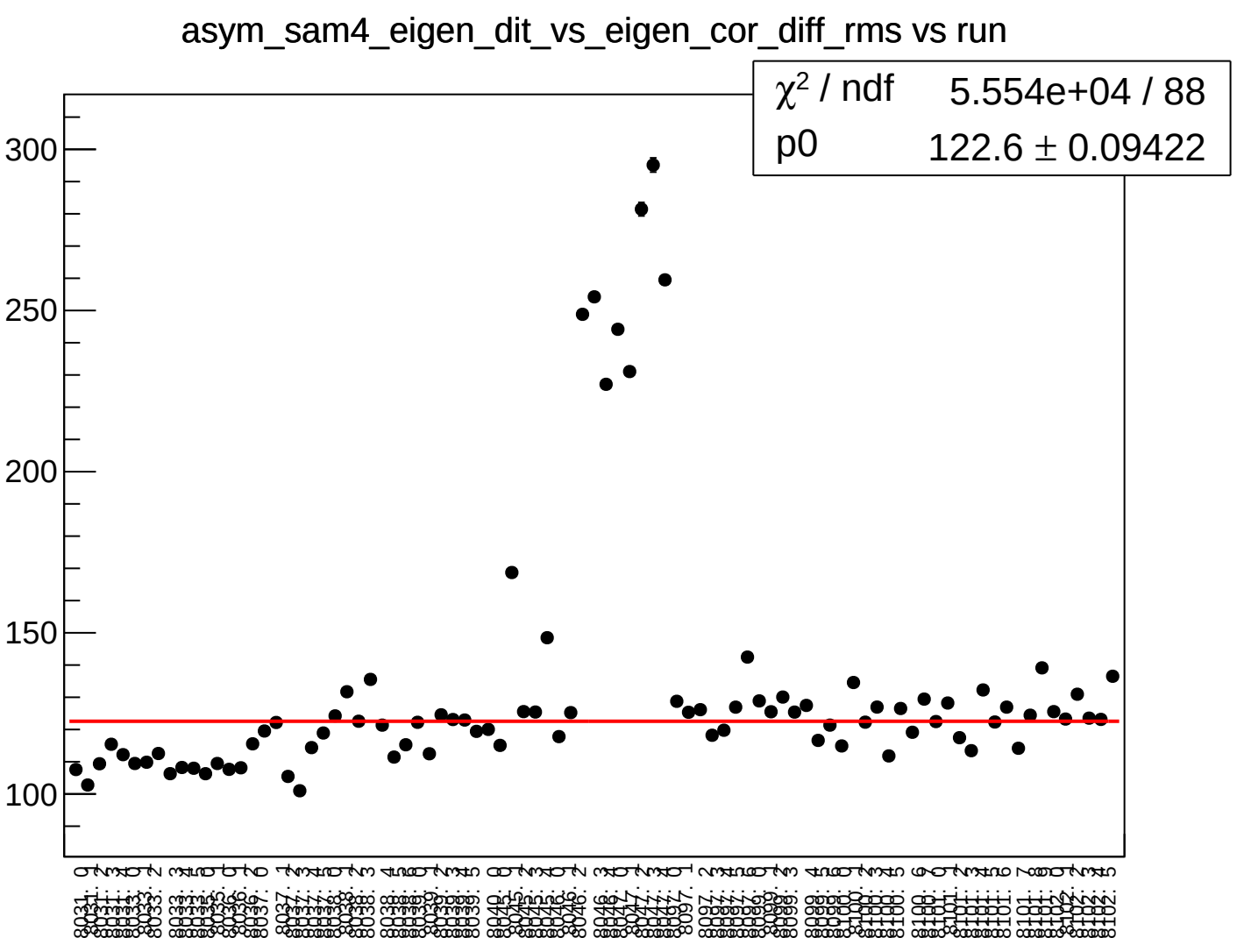

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 70.35 / 88
p0 −0.2326 ± 0.1333
pull
Entries 89
Mean 155.6
Std Dev 0

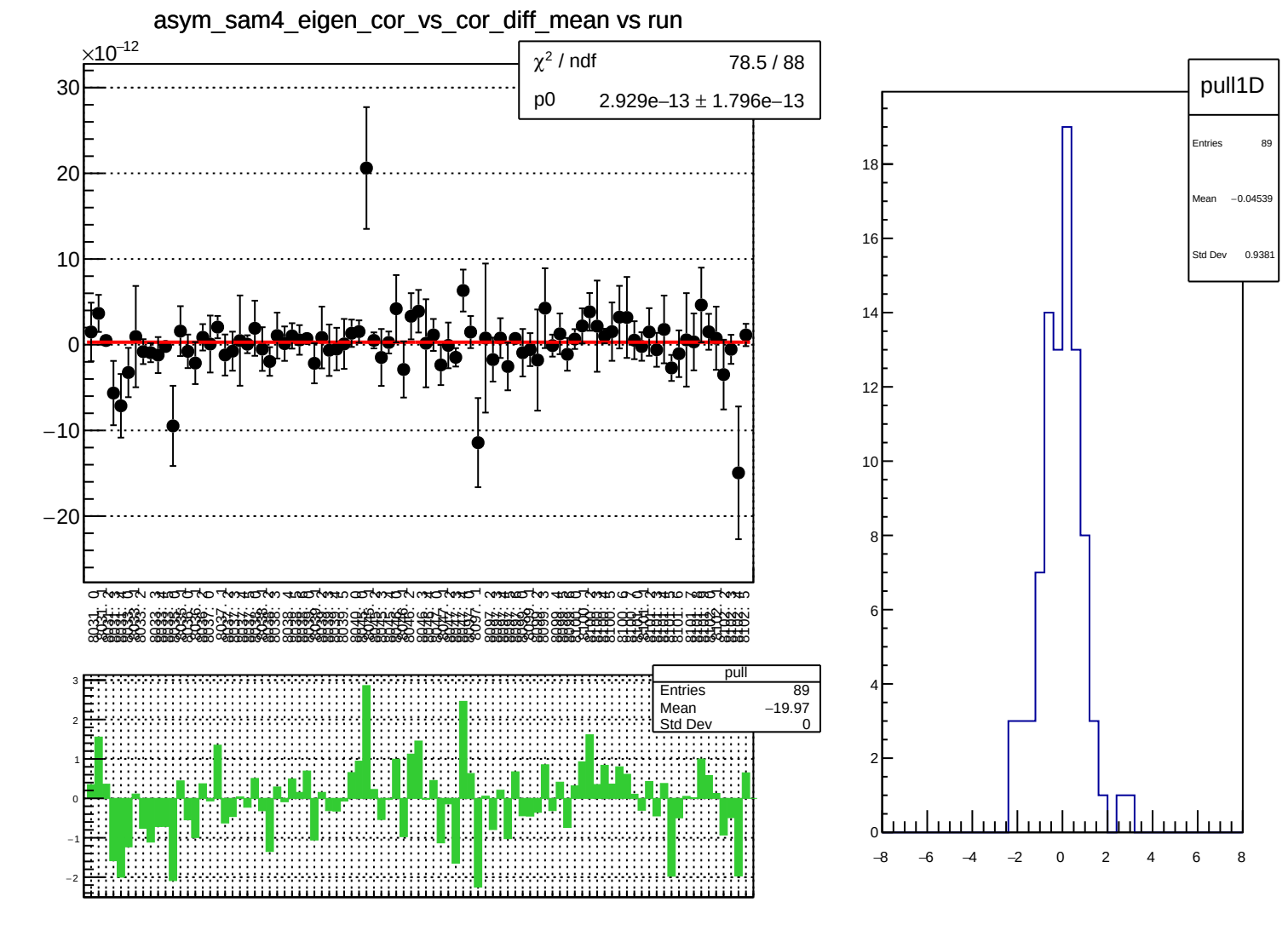

pull1D
Entries 89
Mean −0.01938
Std Dev 0.8889

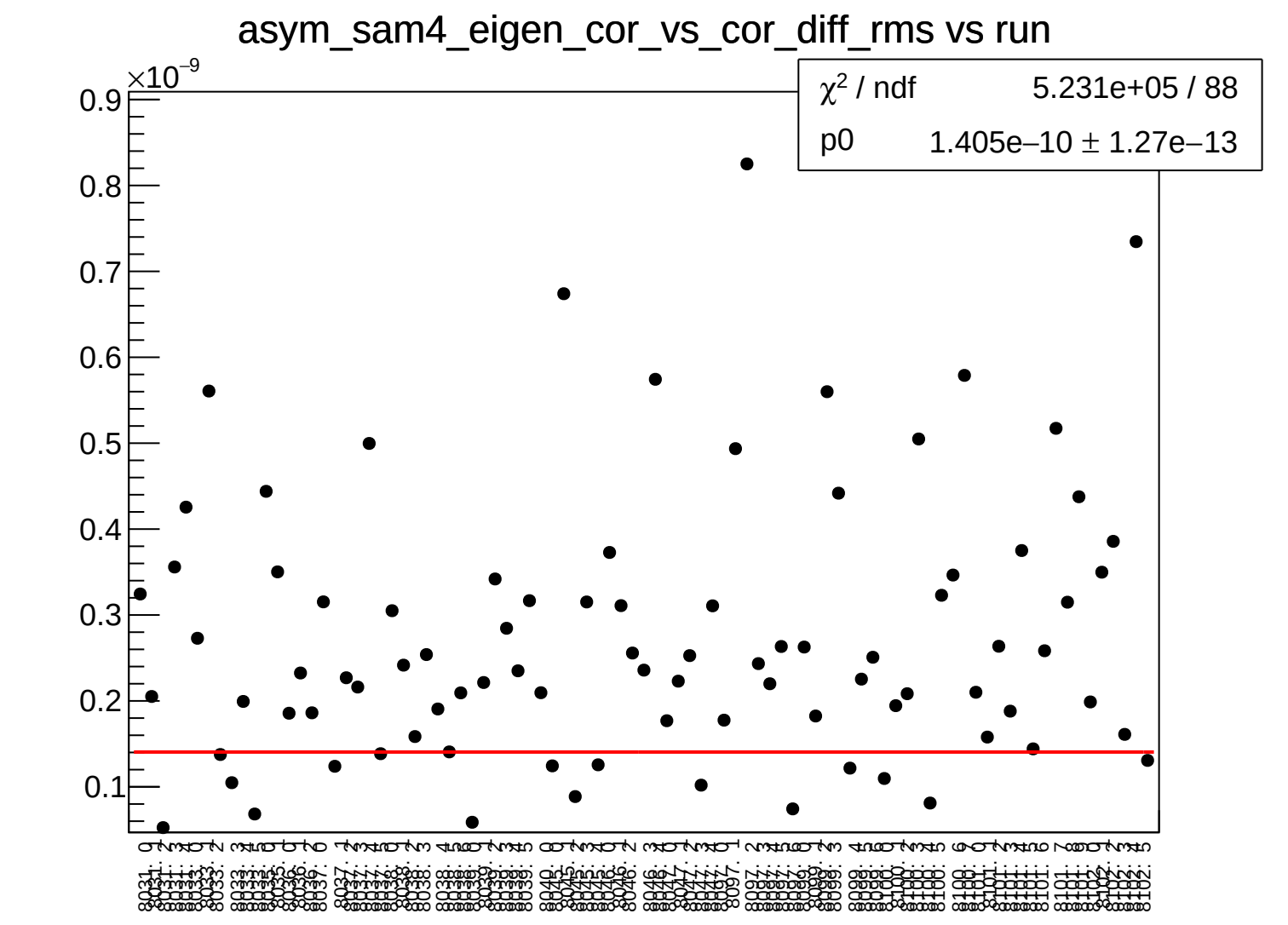

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.554e+04 / 88
p0 122.6 ± 0.09422
300
250
200
150
100

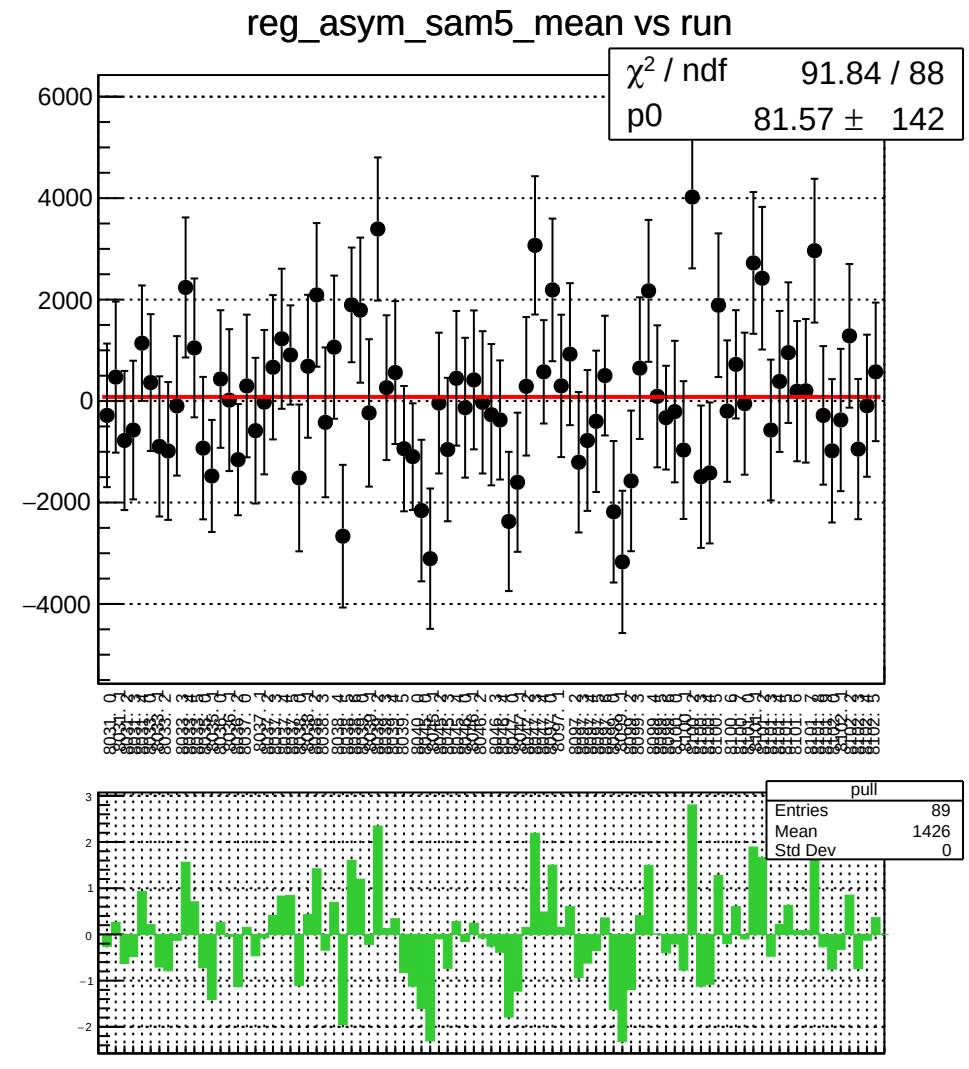

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.35 / 88
p0 −0.2326 ± 0.1333
pull
Entries 89
Mean 155.6
Std Dev 0

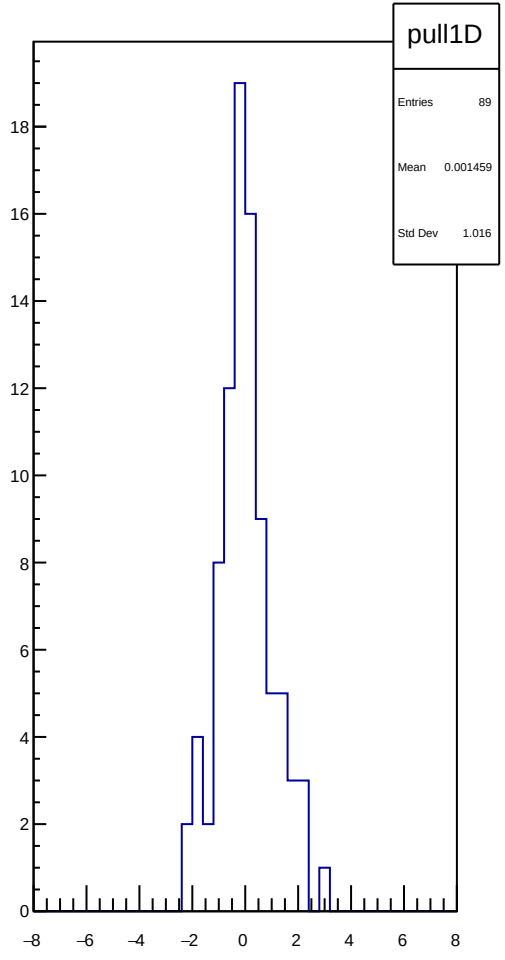

pull1D
Entries 89
Mean −0.01938
Std Dev 0.8889

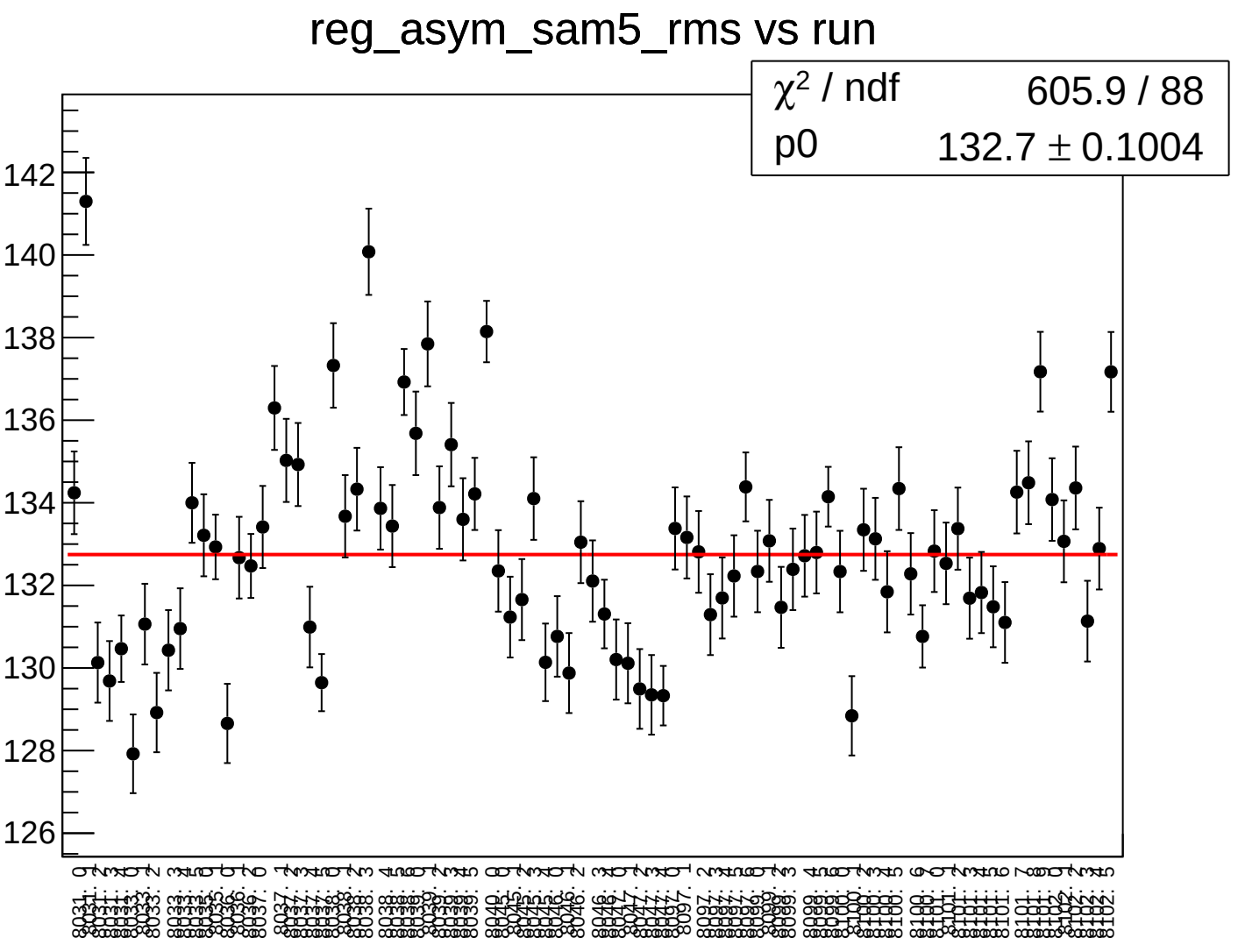

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.554e+04 / 88
p0 122.6 ± 0.09422
300
250
200
150
100

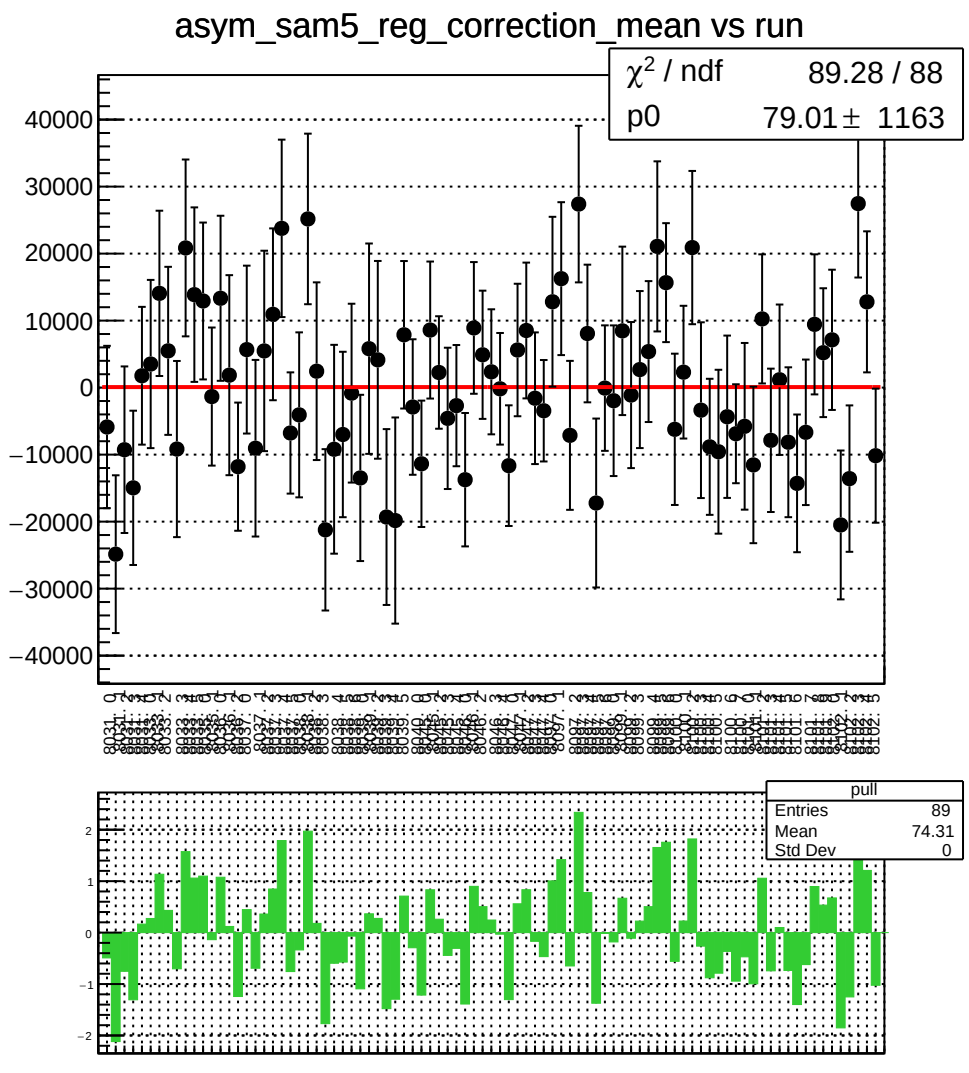

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.5 / 88
p0 2.929e−13 ± 1.796e−13
30
20
10
0
−10
−20
pull
Entries 89
Mean −19.97
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.04539
Std Dev 0.9381
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

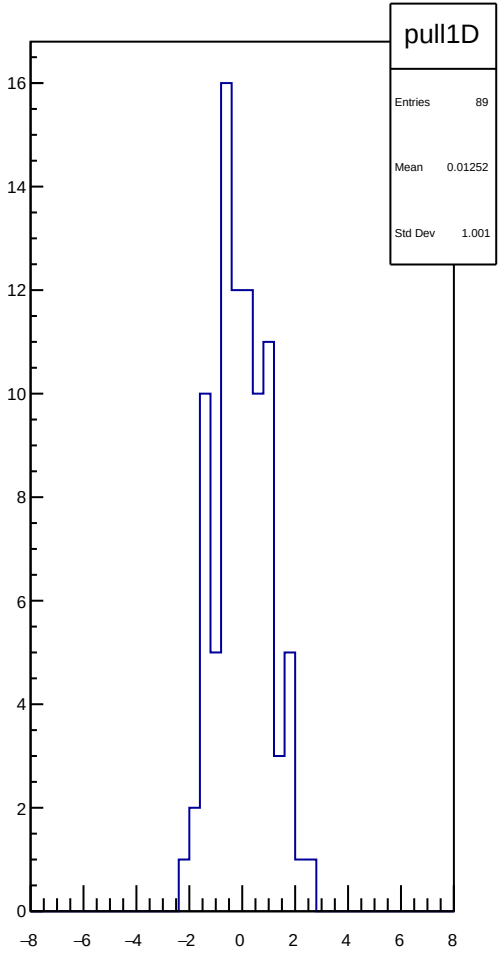

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 5.231e+05 / 88
p0 1.405e−10 ± 1.27e−13

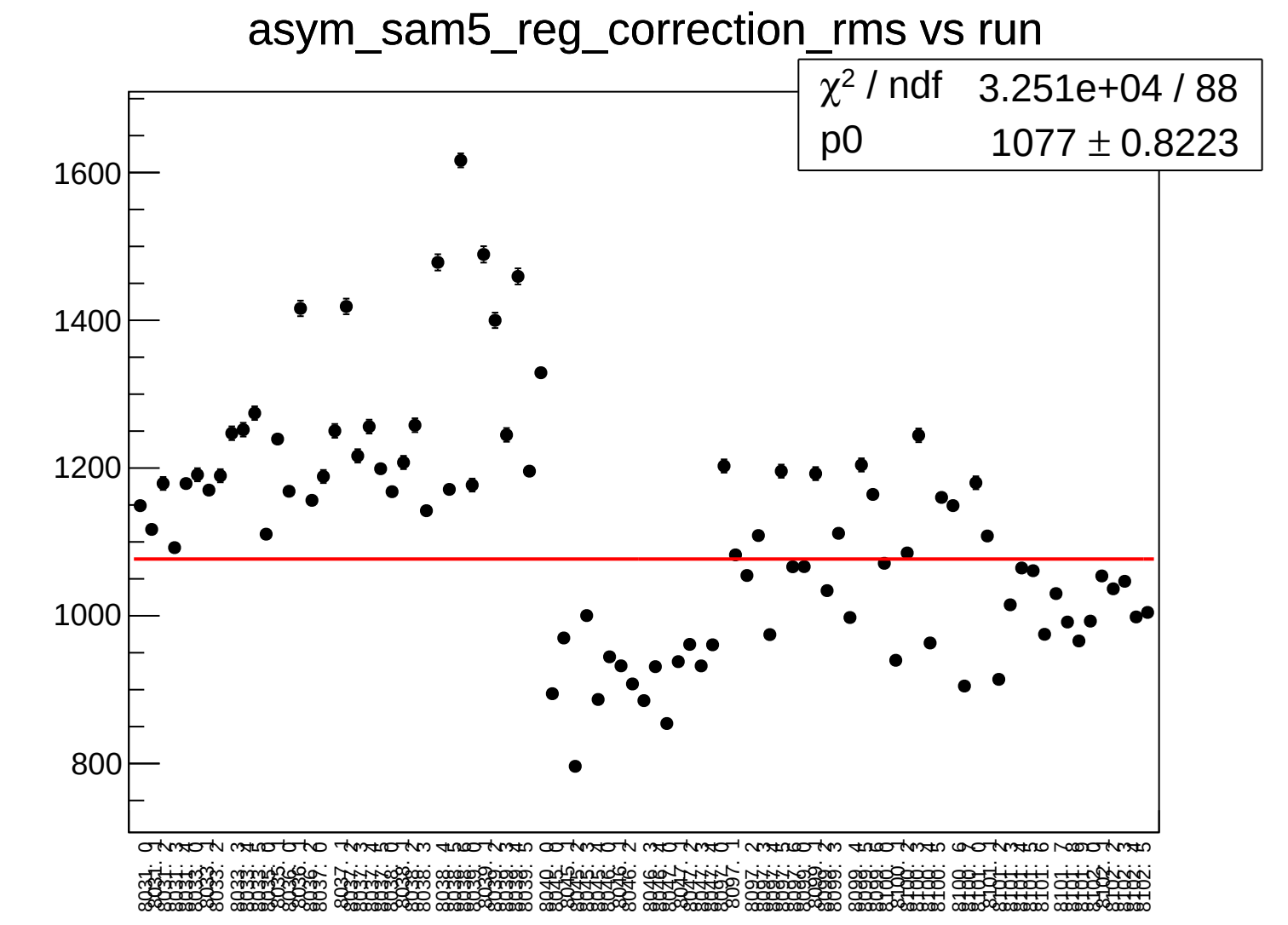

reg_asym_sam5_mean vs run
χ² / ndf 91.84 / 88
p0 81.57 ± 142
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 1426
Std Dev 0
3
2
1
0
−1
−2

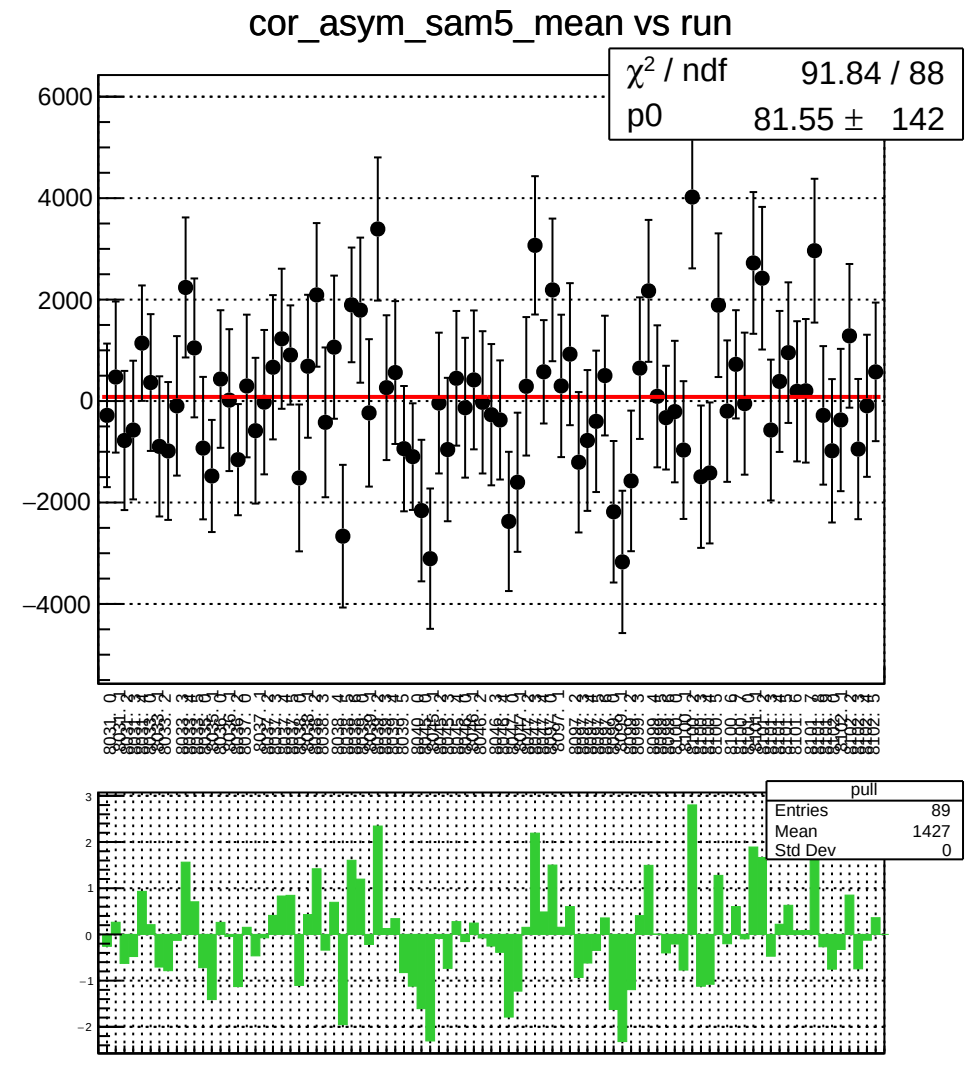

pull1D
Entries 89
Mean 0.001459
Std Dev 1.016
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

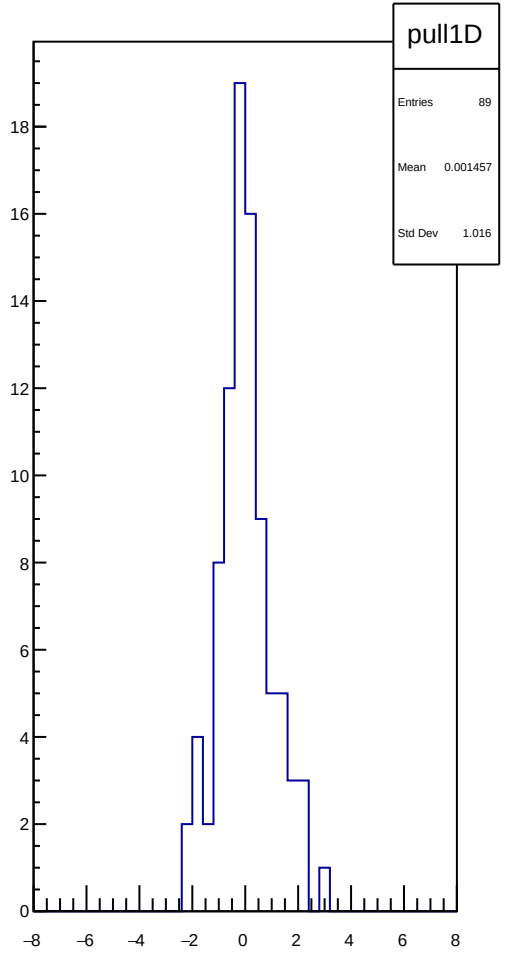

reg_asym_sam5_rms vs run
χ² / ndf 605.9 / 88
p0 132.7 ± 0.1004
142
140
138
136
134
132
130
128
126

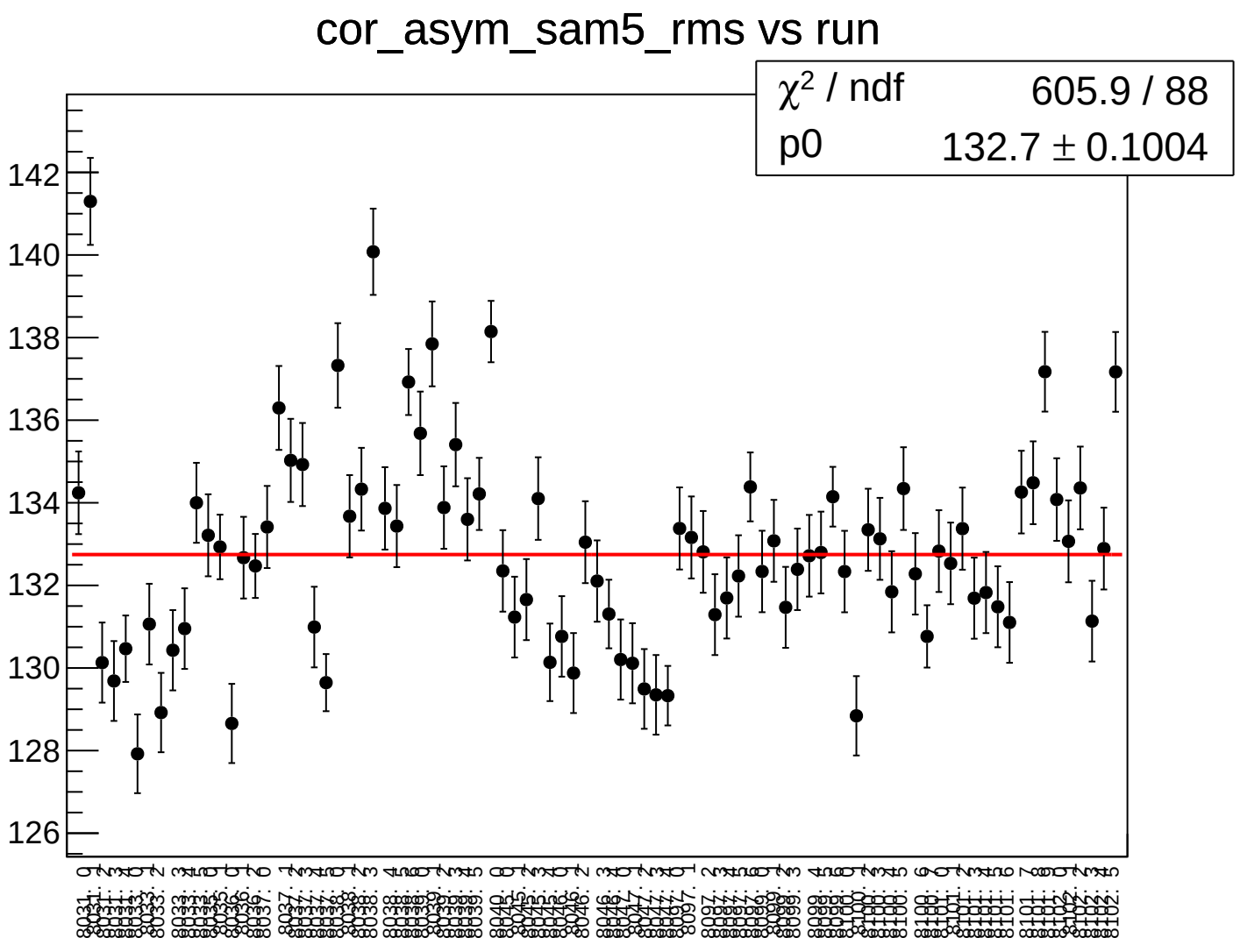

asym_sam5_reg_correction_mean vs run
χ² / ndf 89.28 / 88
p0 79.01 ± 1163
pull
Entries 89
Mean 74.31
Std Dev 0

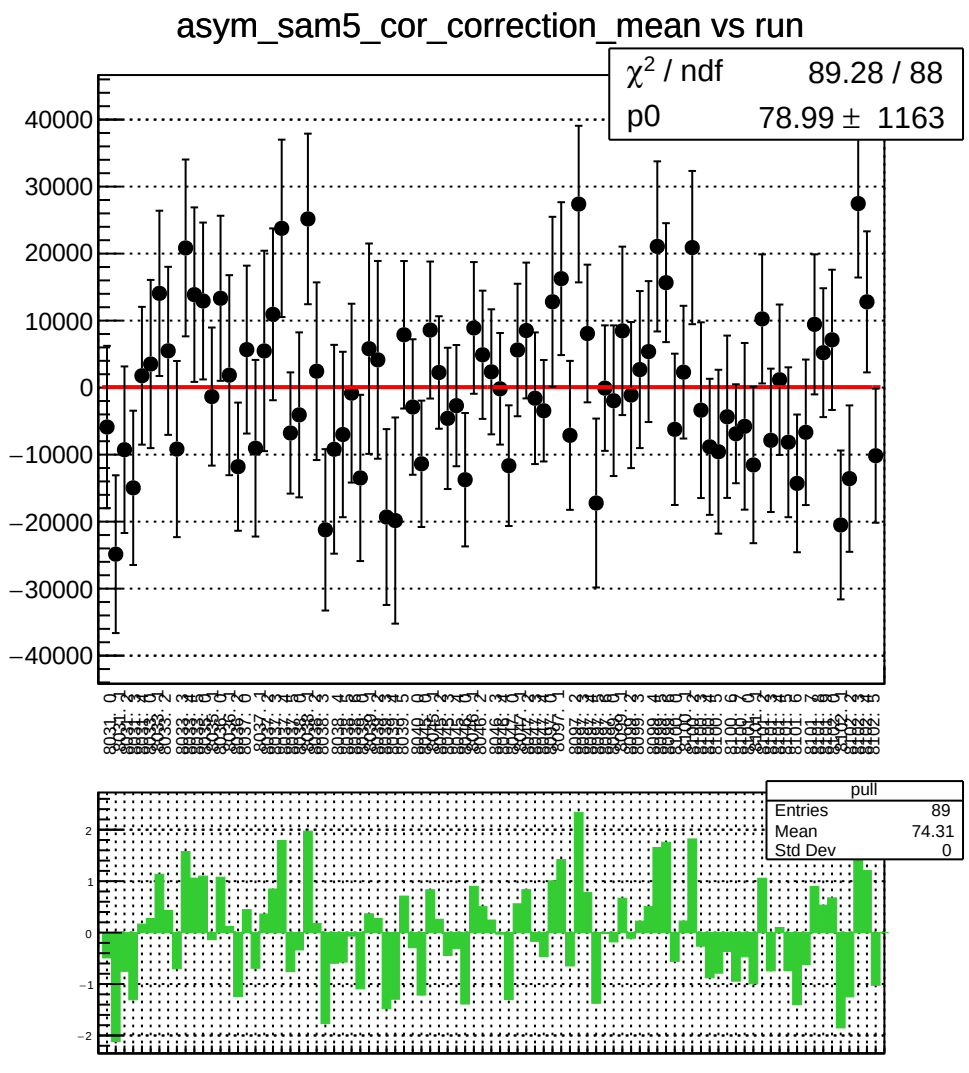

pull1D
Entries 89
Mean 0.01252
Std Dev 1.001

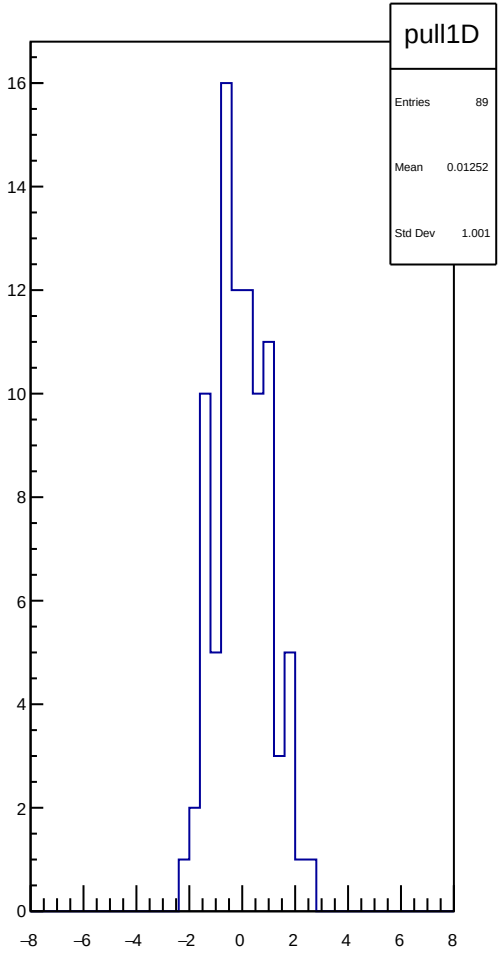

asym_sam5_reg_correction_rms vs run
χ² / ndf 3.251e+04 / 88
p0 1077 ± 0.8223
1600
1400
1200
1000
800

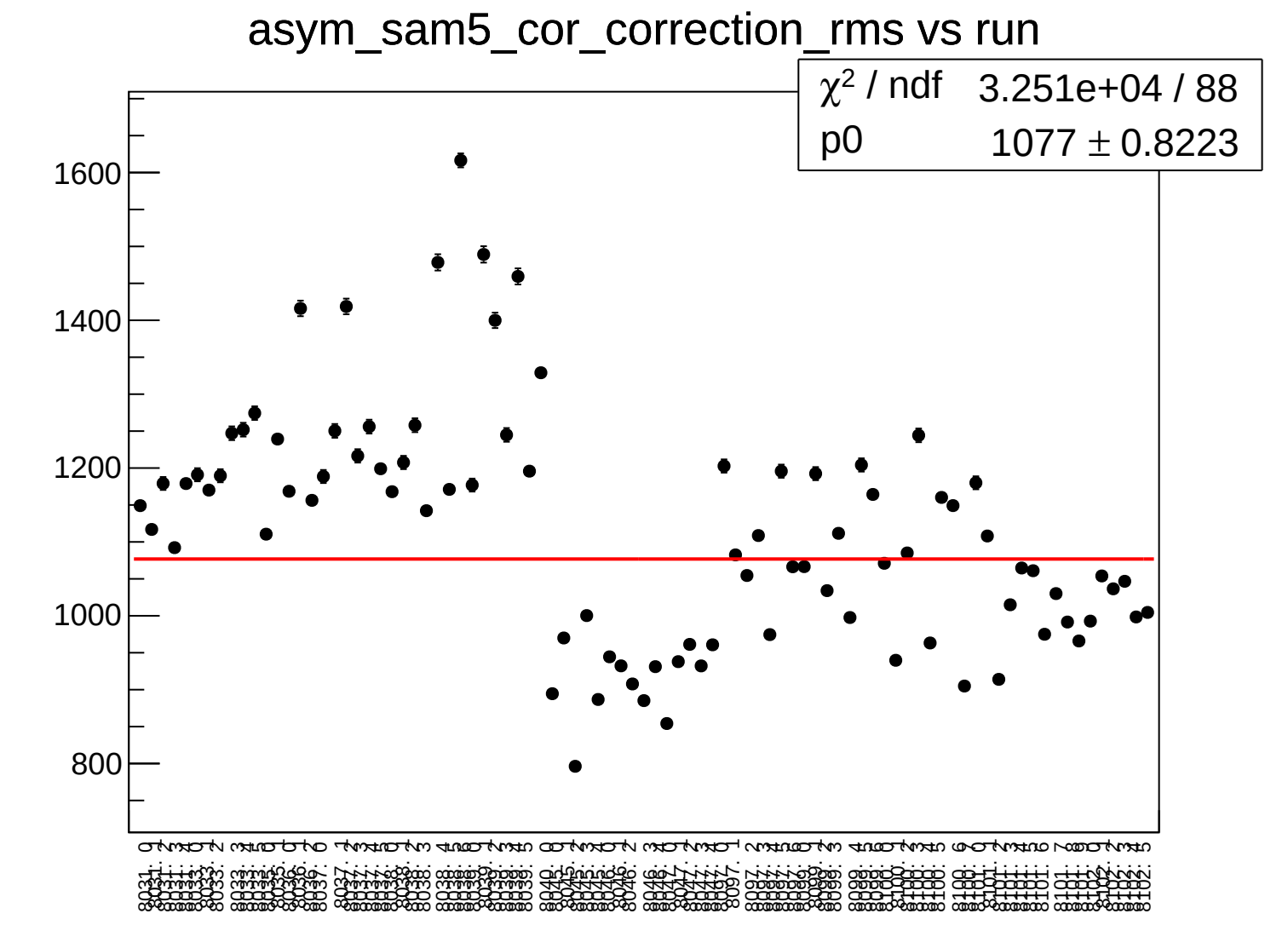

cor_asym_sam5_mean vs run
χ² / ndf 91.84 / 88
p0 81.55 ± 142
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 1427
Std Dev 0
3
2
1
0
−1
−2

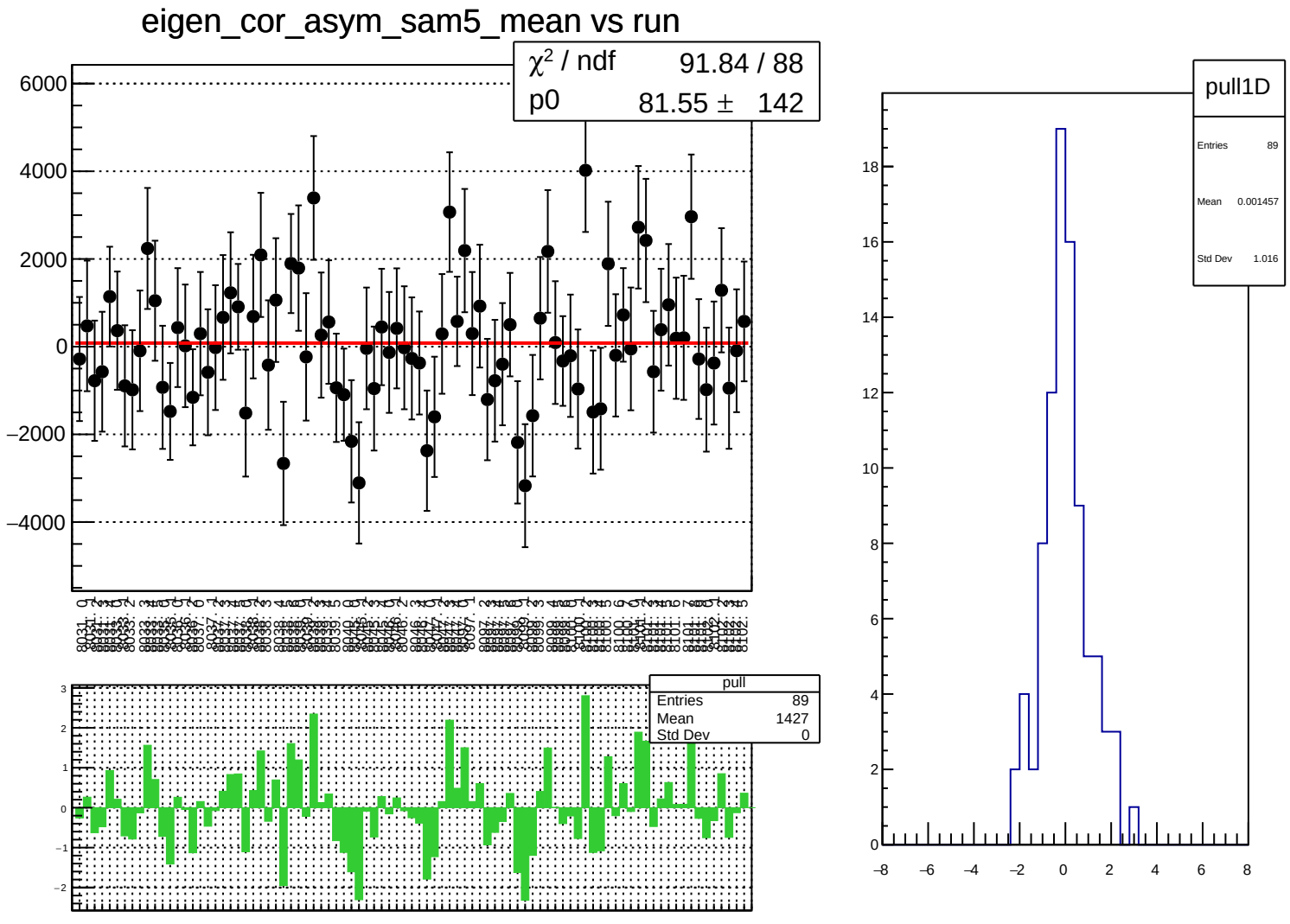

pull1D
Entries 89
Mean 0.001457
Std Dev 1.016
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

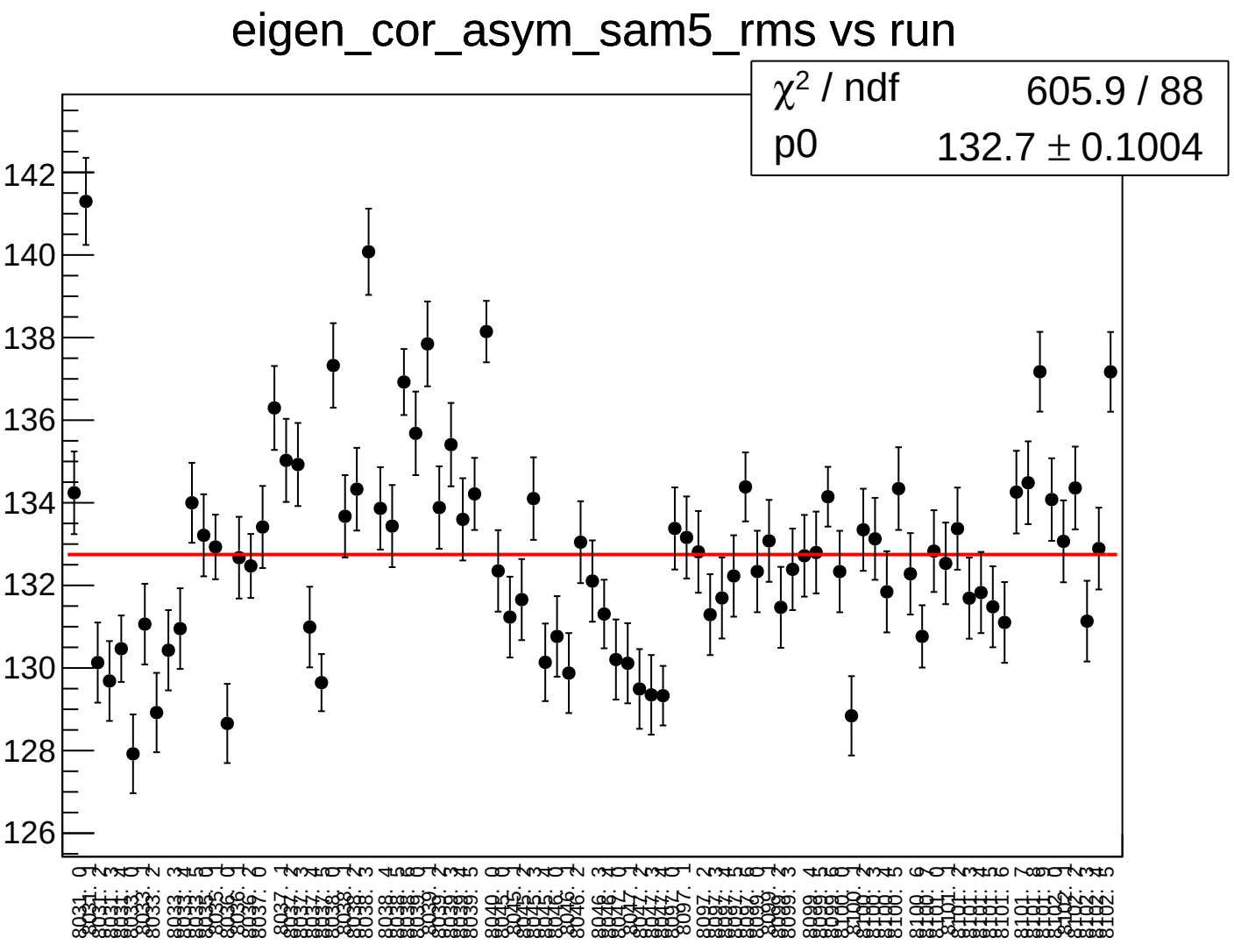

cor_asym_sam5_rms vs run
$\chi^2$ / ndf 605.9 / 88
p0 132.7 ± 0.1004
142
140
138
136
134
132
130
128
126

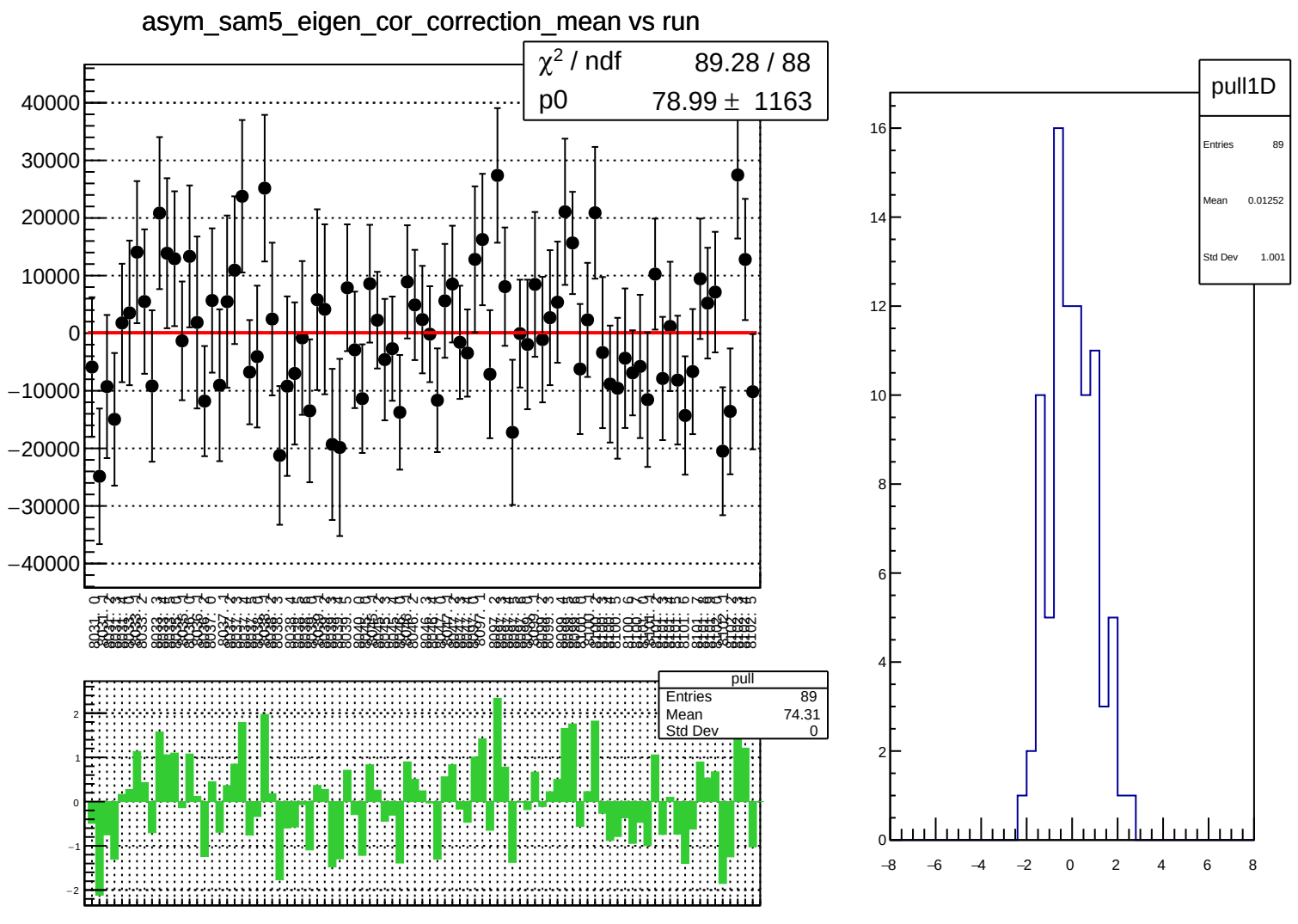

asym_sam5_cor_correction_mean vs run
χ² / ndf 89.28 / 88
p0 78.99 ± 1163
pull
Entries 89
Mean 74.31
Std Dev 0

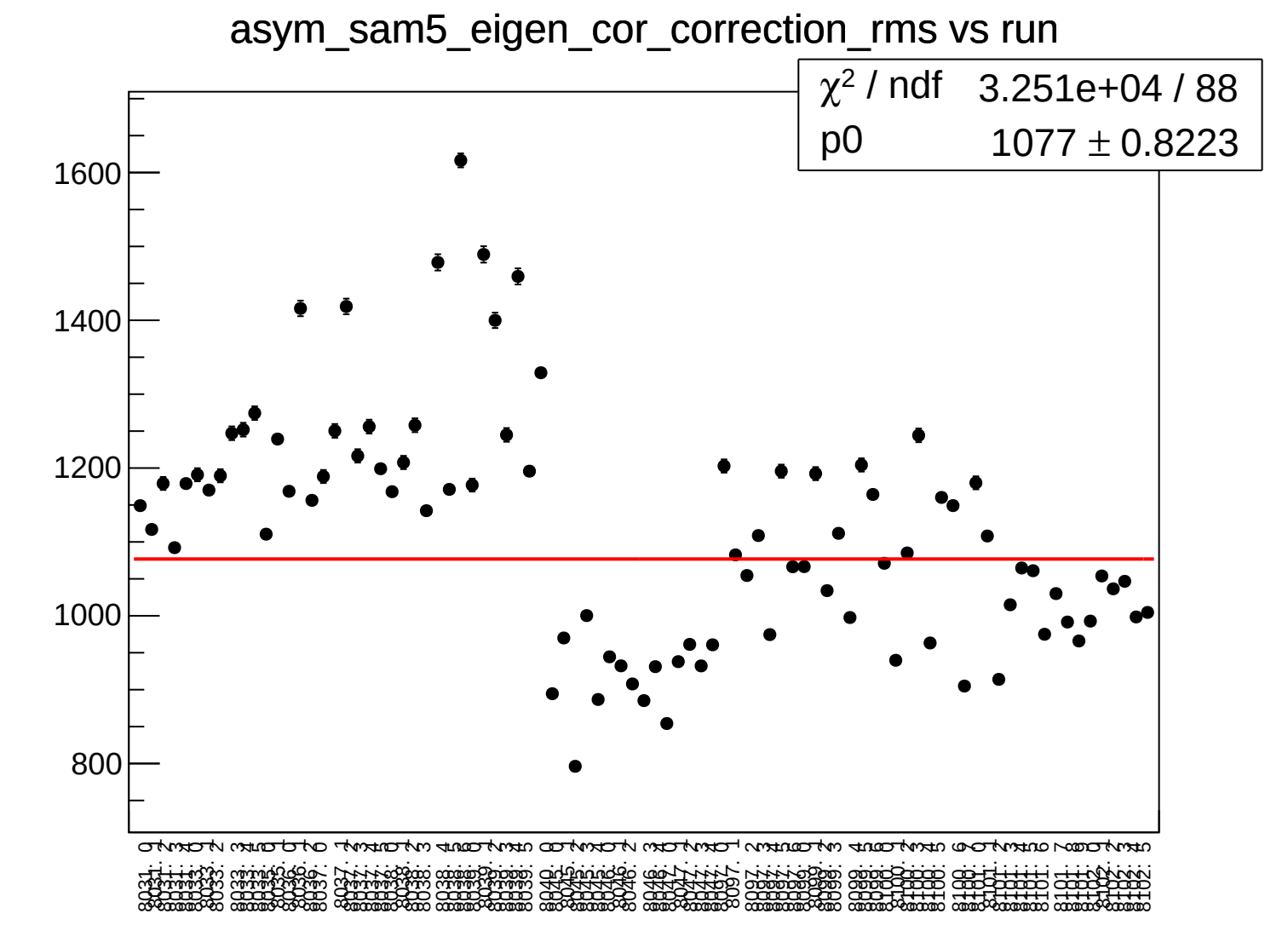

pull1D
Entries 89
Mean 0.01252
Std Dev 1.001

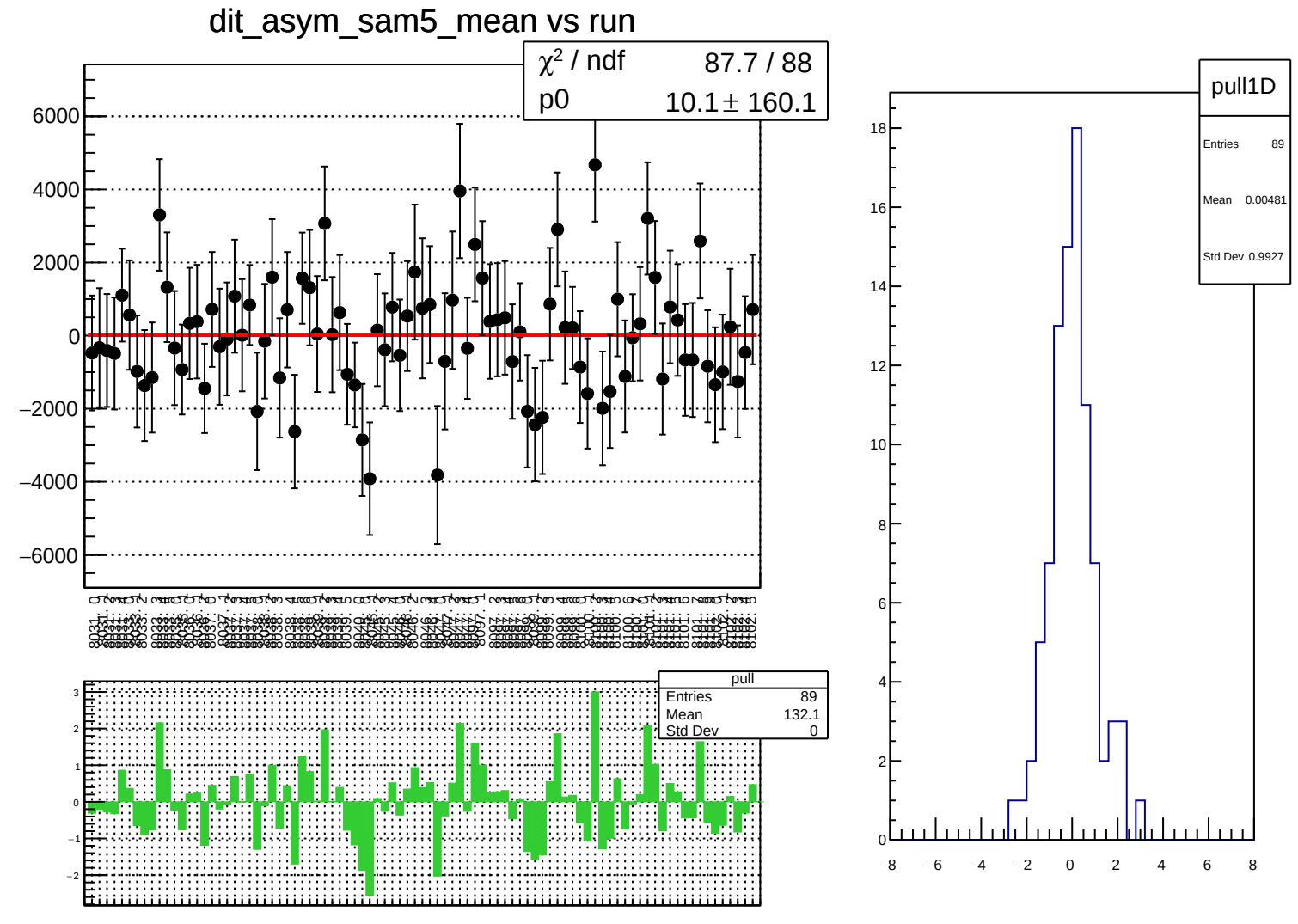

asym_sam5_cor_correction_rms vs run
χ² / ndf 3.251e+04 / 88
p0 1077 ± 0.8223
1600
1400
1200
1000
800

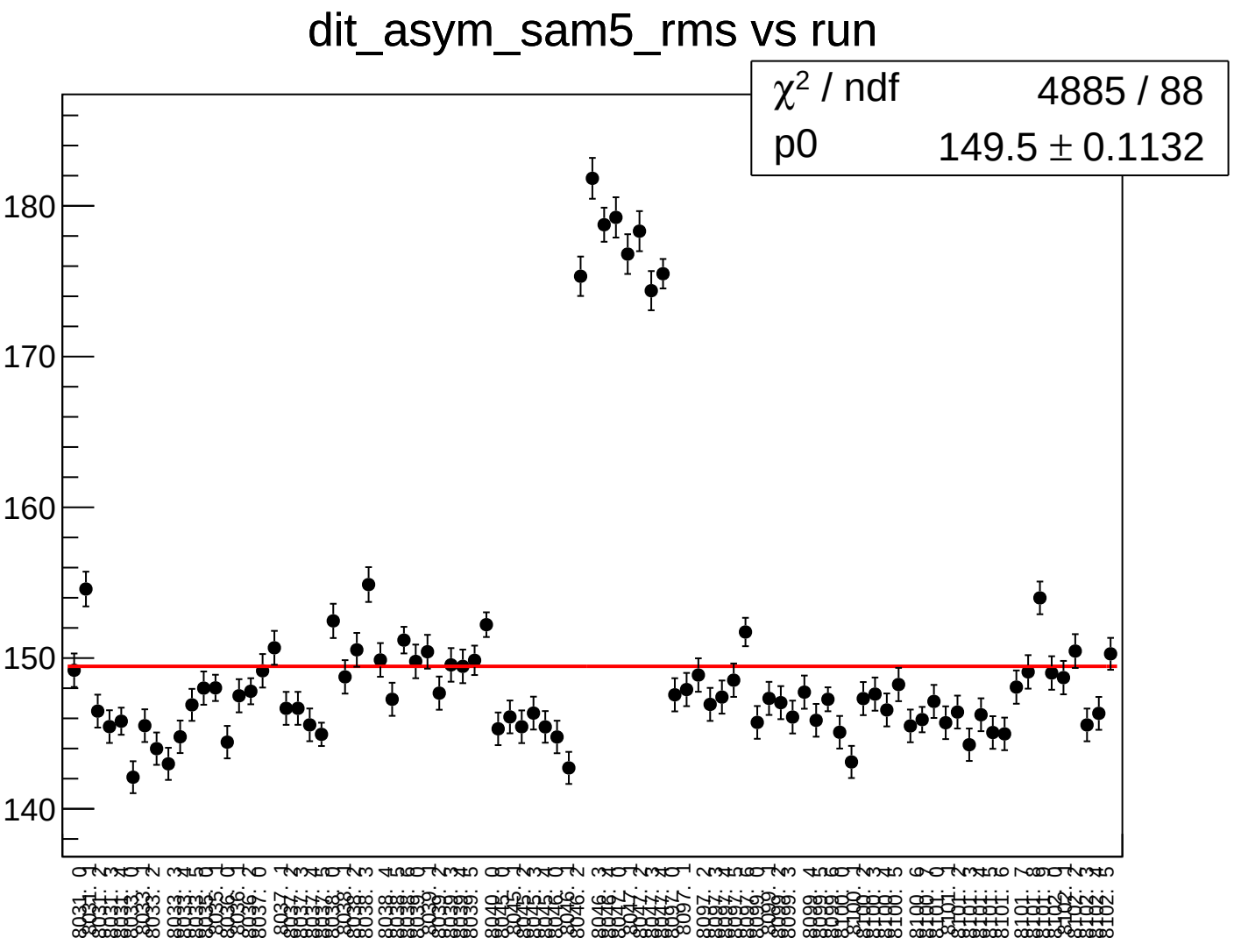

eigen_cor_asym_sam5_mean vs run
χ² / ndf 91.84 / 88
p0 81.55 ± 142
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 1427
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.001457
Std Dev 1.016
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

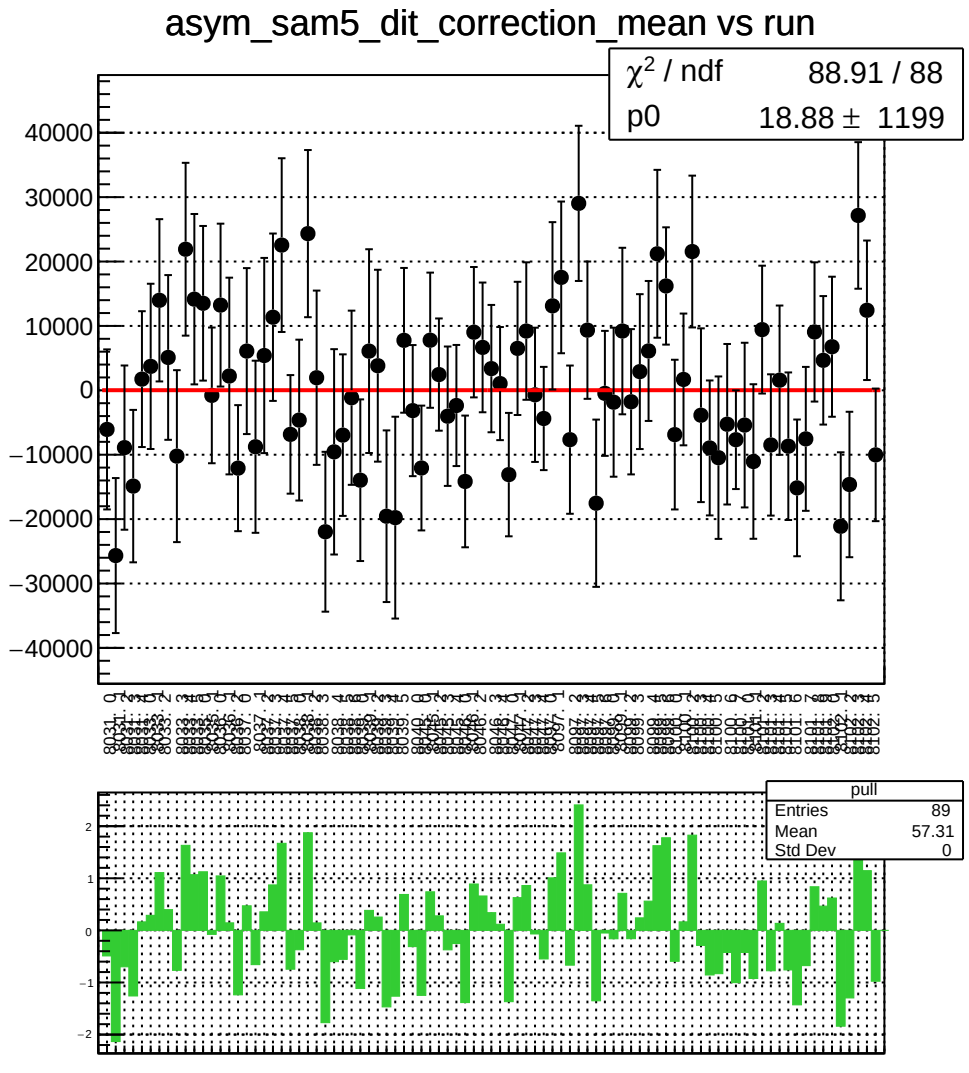

eigen_cor_asym_sam5_rms vs run
χ² / ndf 605.9 / 88
p0 132.7 ± 0.1004
142
140
138
136
134
132
130
128
126

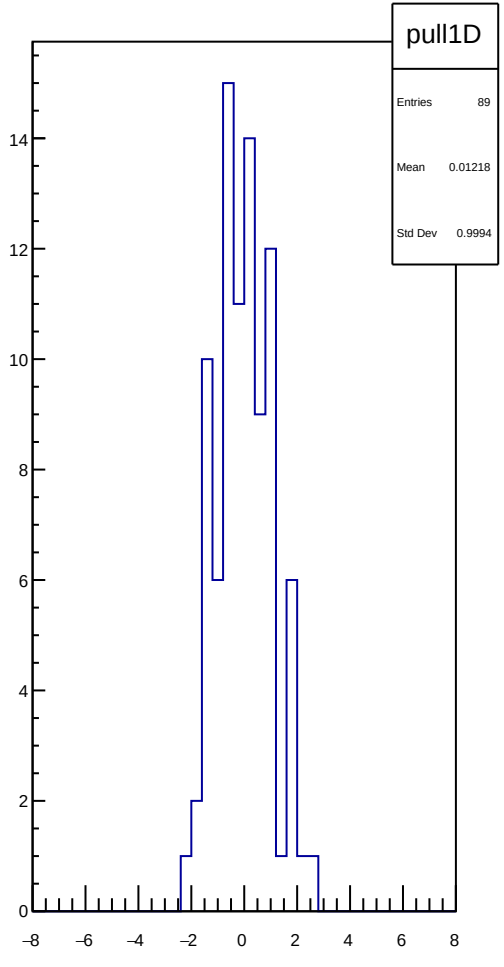

asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 89.28 / 88
p0 78.99 ± 1163
pull
Entries 89
Mean 74.31
Std Dev 0
pull1D
Entries 89
Mean 0.01252
Std Dev 1.001

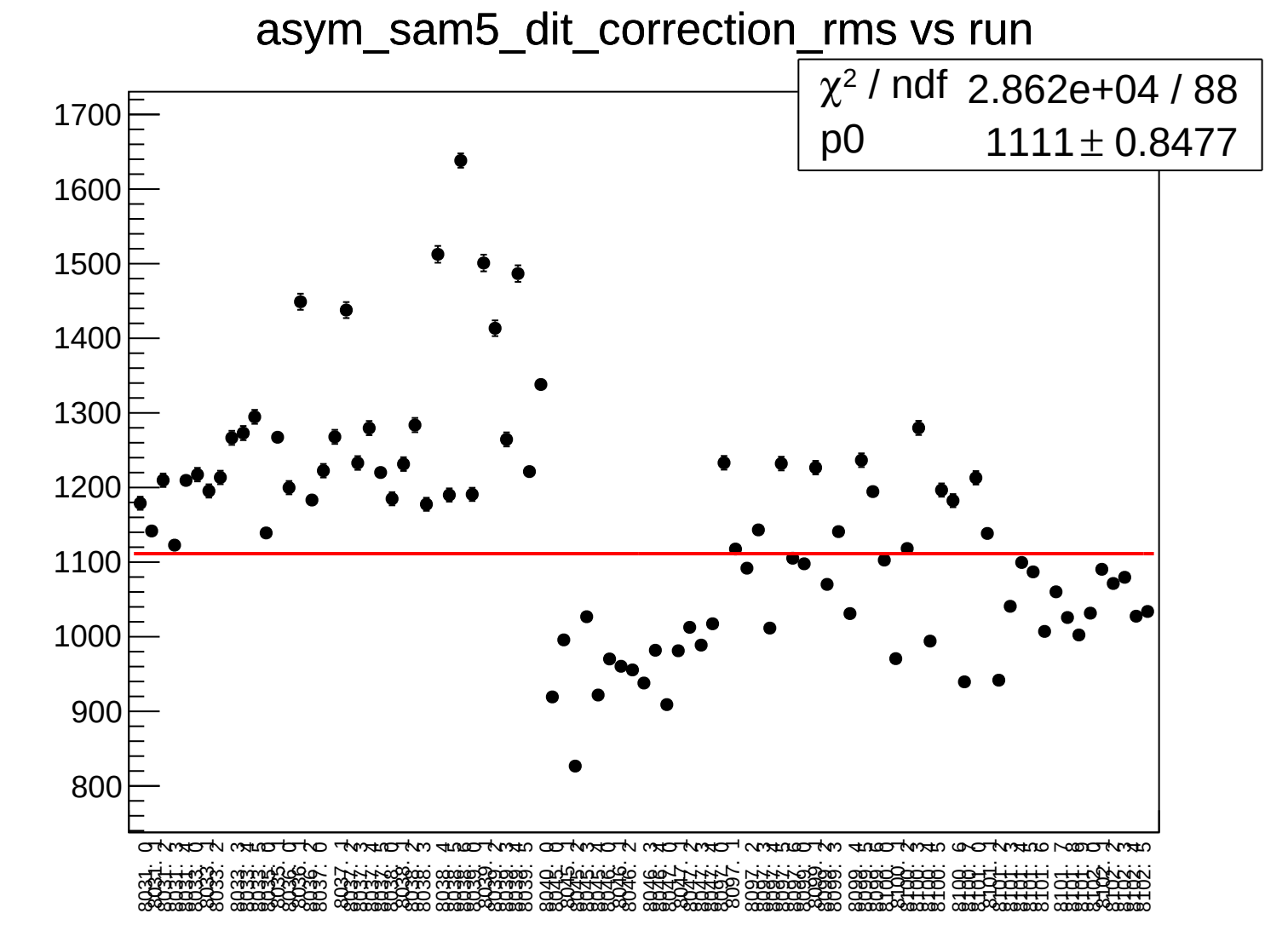

asym_sam5_eigen_cor_correction_rms vs run
χ² / ndf 3.251e+04 / 88
p0 1077 ± 0.8223
1600
1400
1200
1000
800

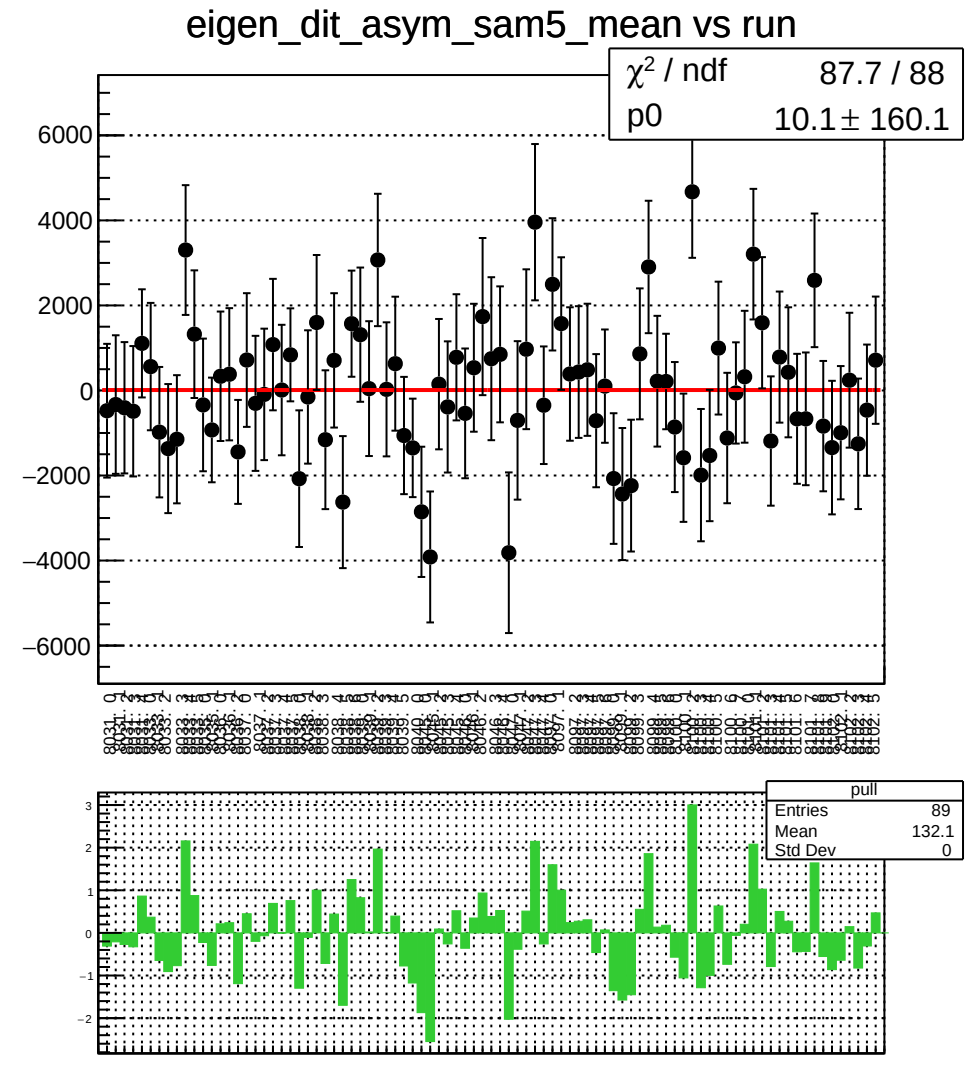

dit_asym_sam5_mean vs run
χ² / ndf 87.7 / 88
p0 10.1 ± 160.1
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 132.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.00481
Std Dev 0.9927
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

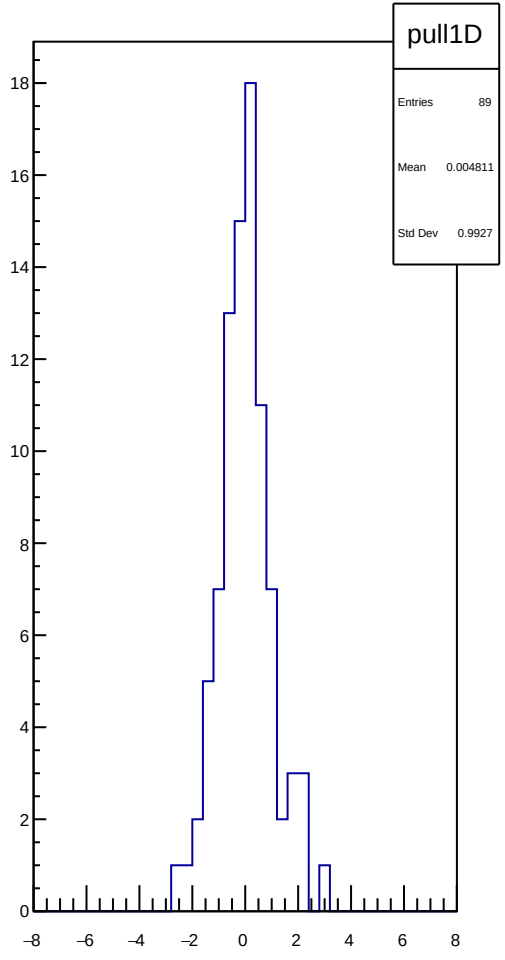

dit_asym_sam5_rms vs run
χ² / ndf 4885 / 88
p0 149.5 ± 0.1132
180
170
160
150
140

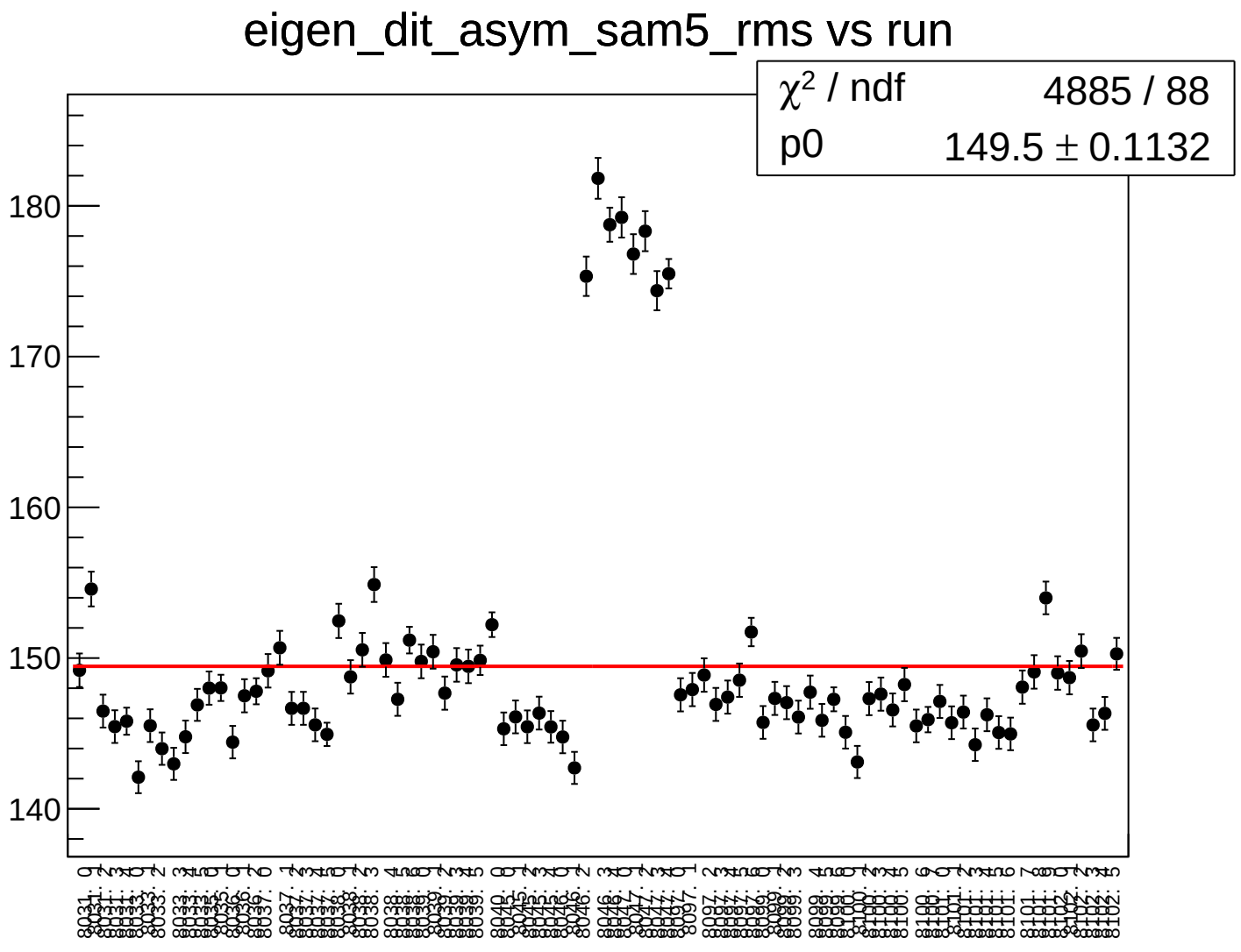

asym_sam5_dit_correction_mean vs run
χ² / ndf 88.91 / 88
p0 18.88 ± 1199
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean 57.31
Std Dev 0
2
1
0
−1
−2

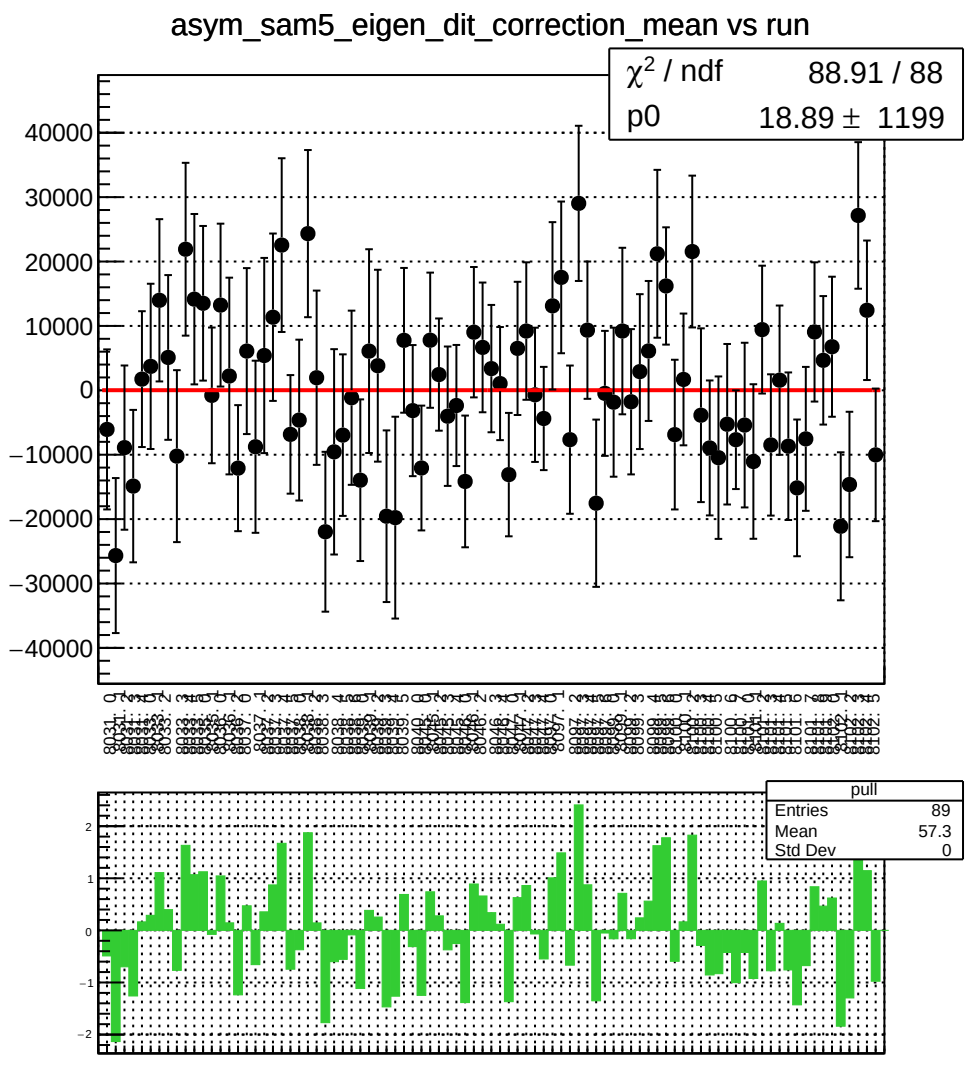

pull1D
Entries 89
Mean 0.01218
Std Dev 0.9994
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

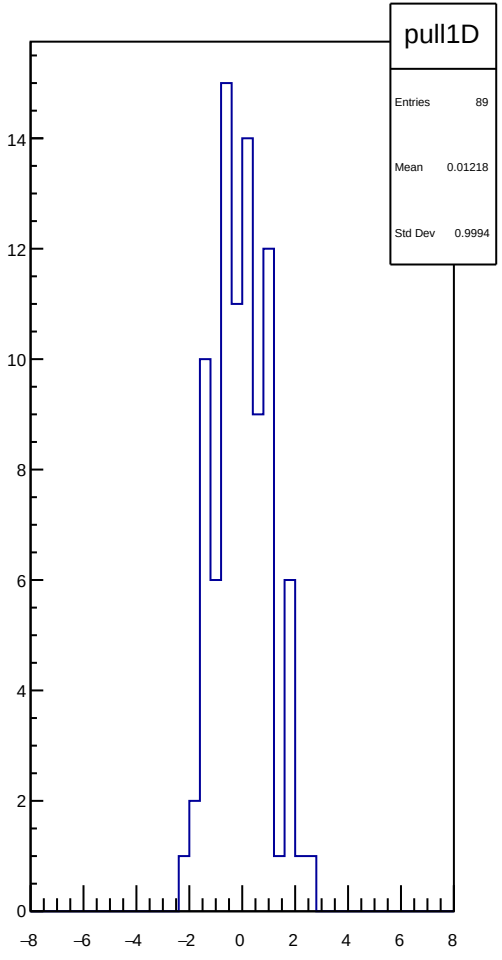

asym_sam5_dit_correction_rms vs run
χ² / ndf 2.862e+04 / 88
p0 1111 ± 0.8477
1700
1600
1500
1400
1300
1200
1100
1000
900
800

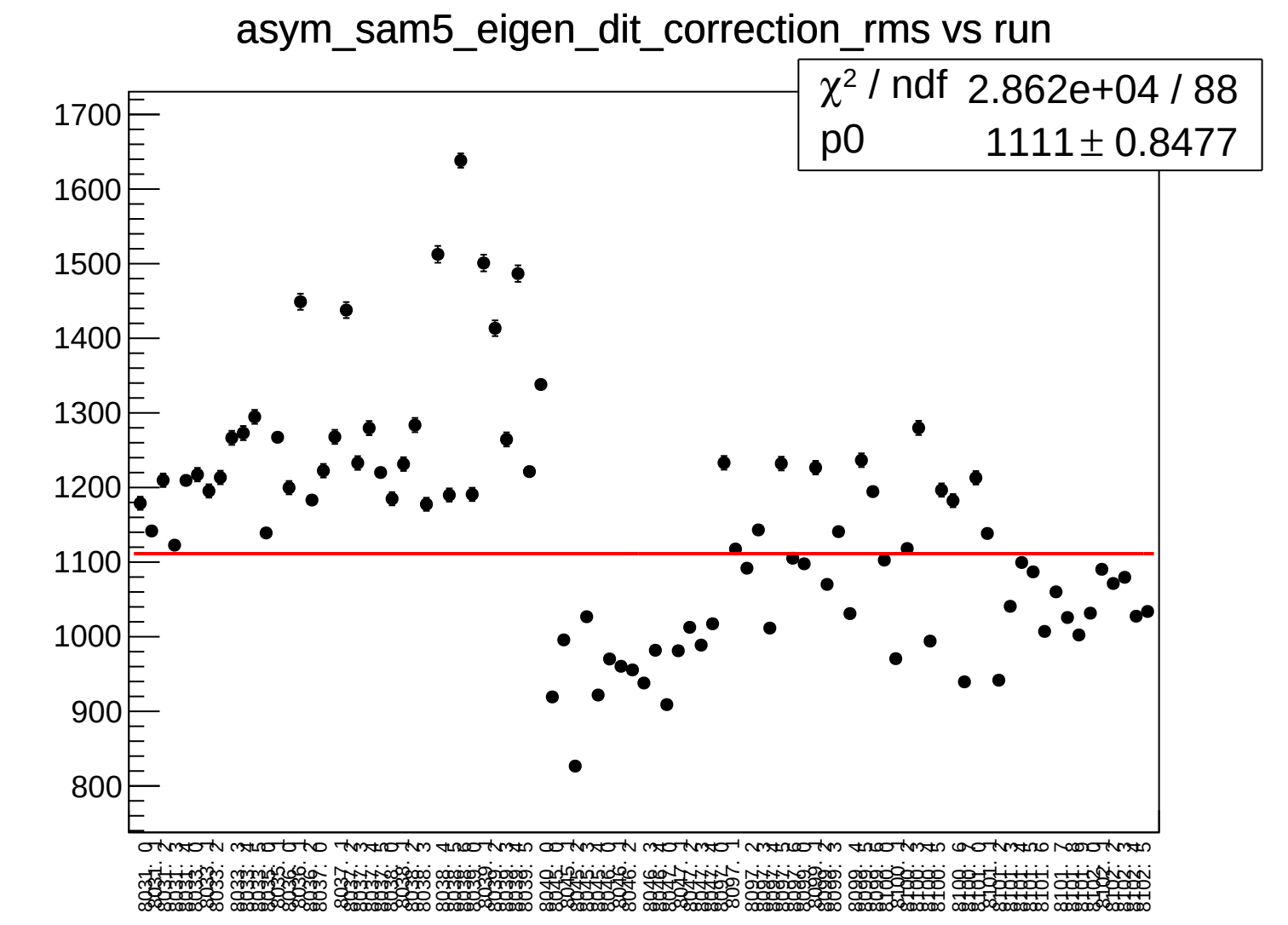

eigen_dit_asym_sam5_mean vs run
χ² / ndf 87.7 / 88
p0 10.1 ± 160.1
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 132.1
Std Dev 0
3
2
1
0
−1
−2

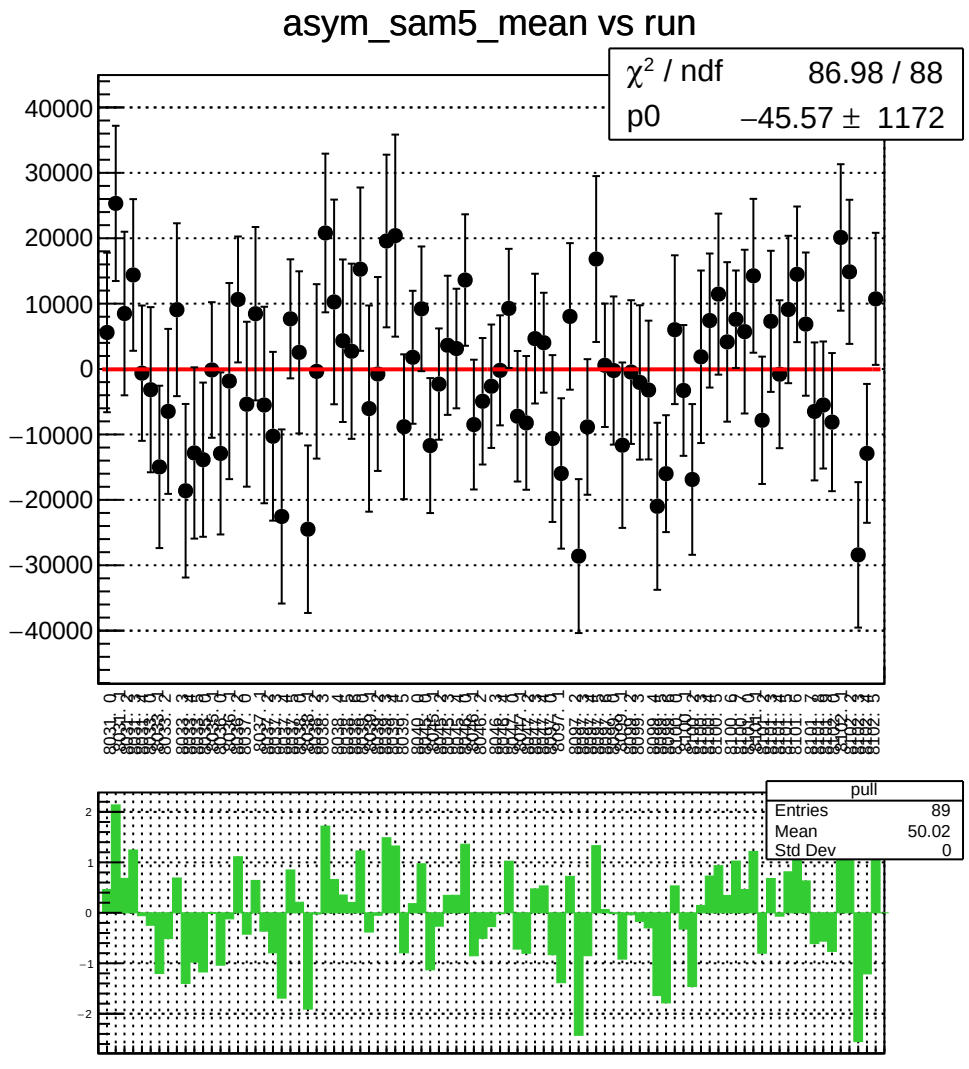

pull1D
Entries 89
Mean 0.004811
Std Dev 0.9927
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

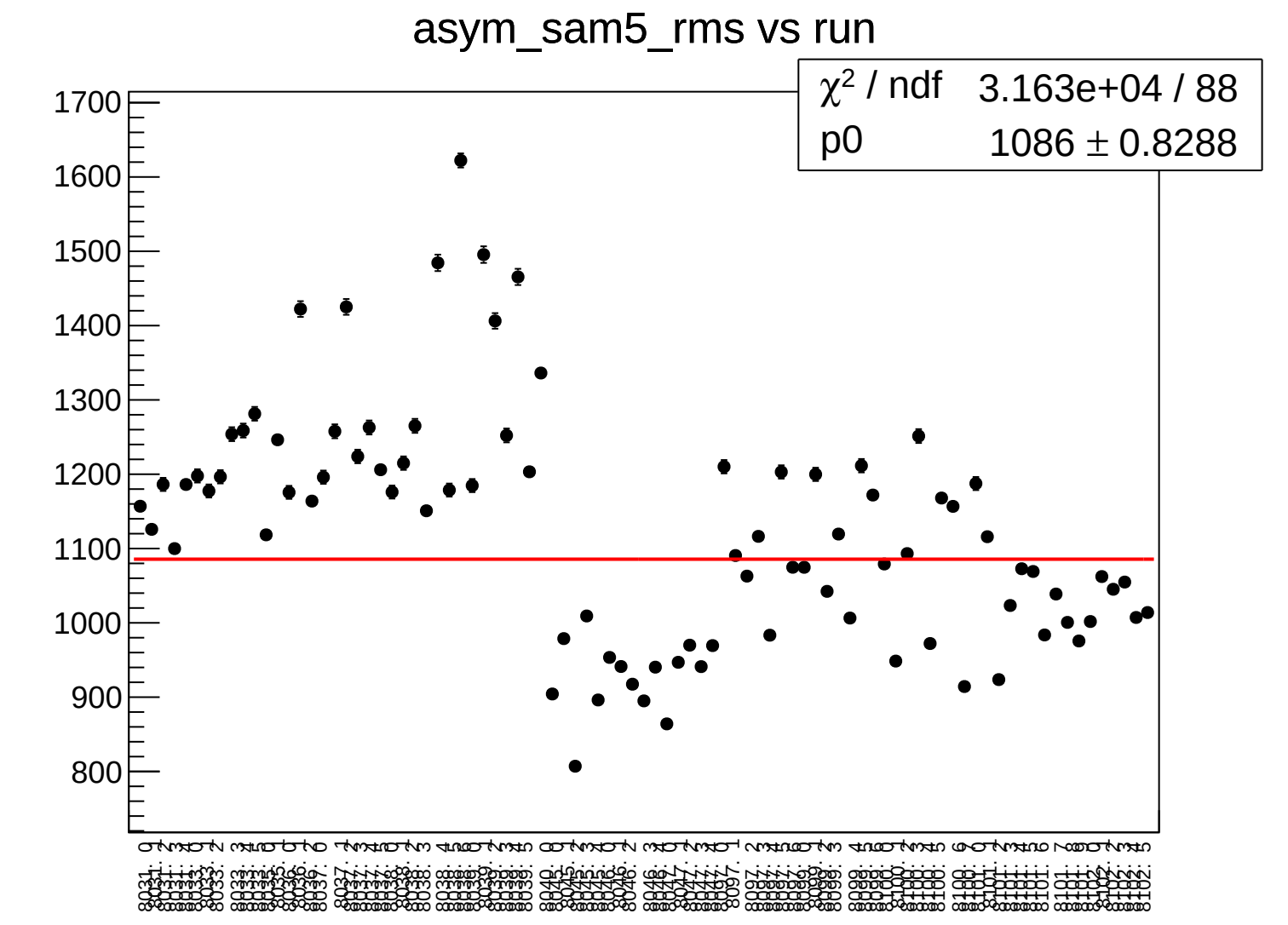

eigen_dit_asym_sam5_rms vs run
χ² / ndf 4885 / 88
p0 149.5 ± 0.1132
180
170
160
150
140

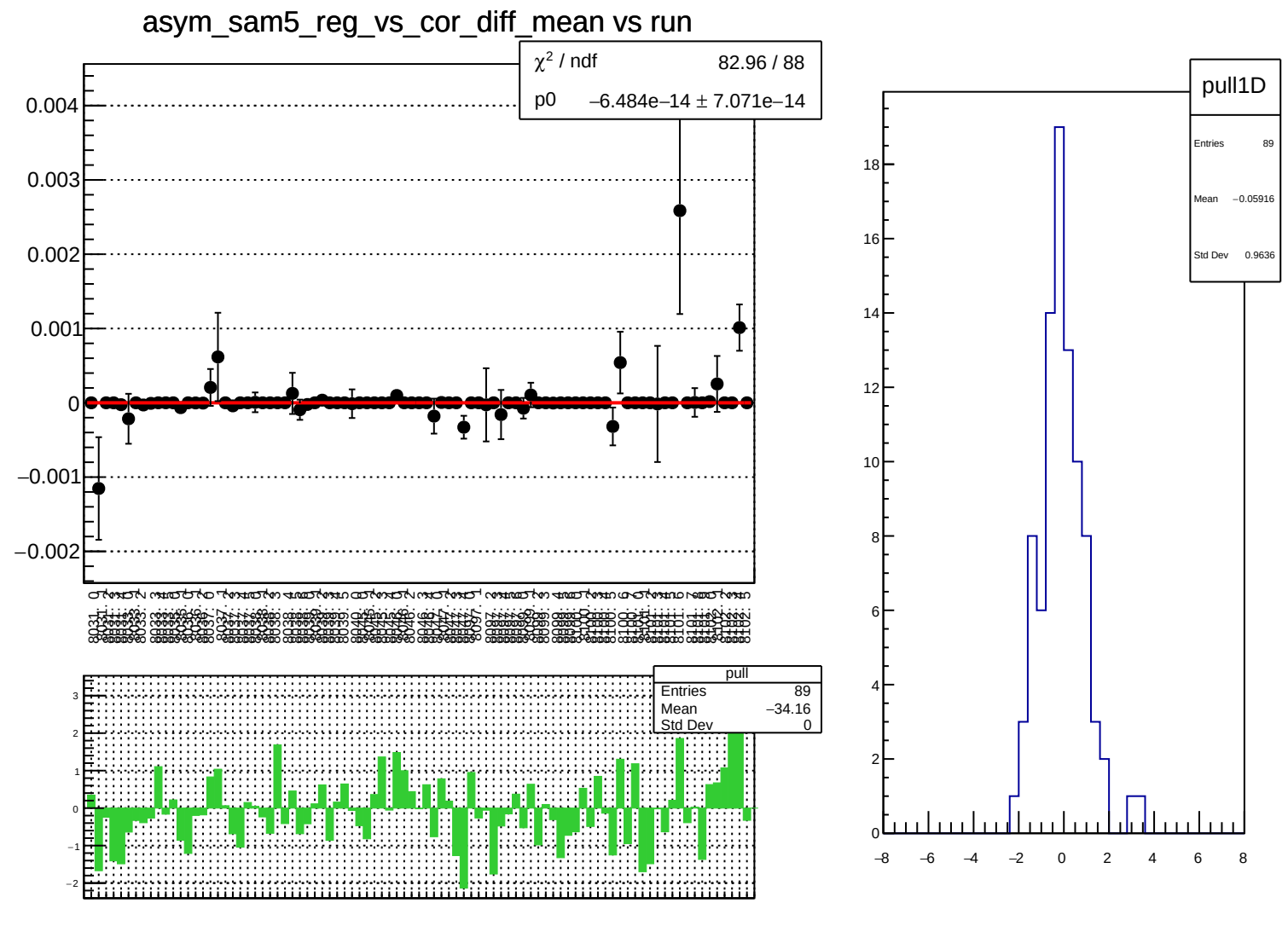

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 88.91 / 88
p0 18.89 ± 1199
pull
Entries 89
Mean 57.3
Std Dev 0

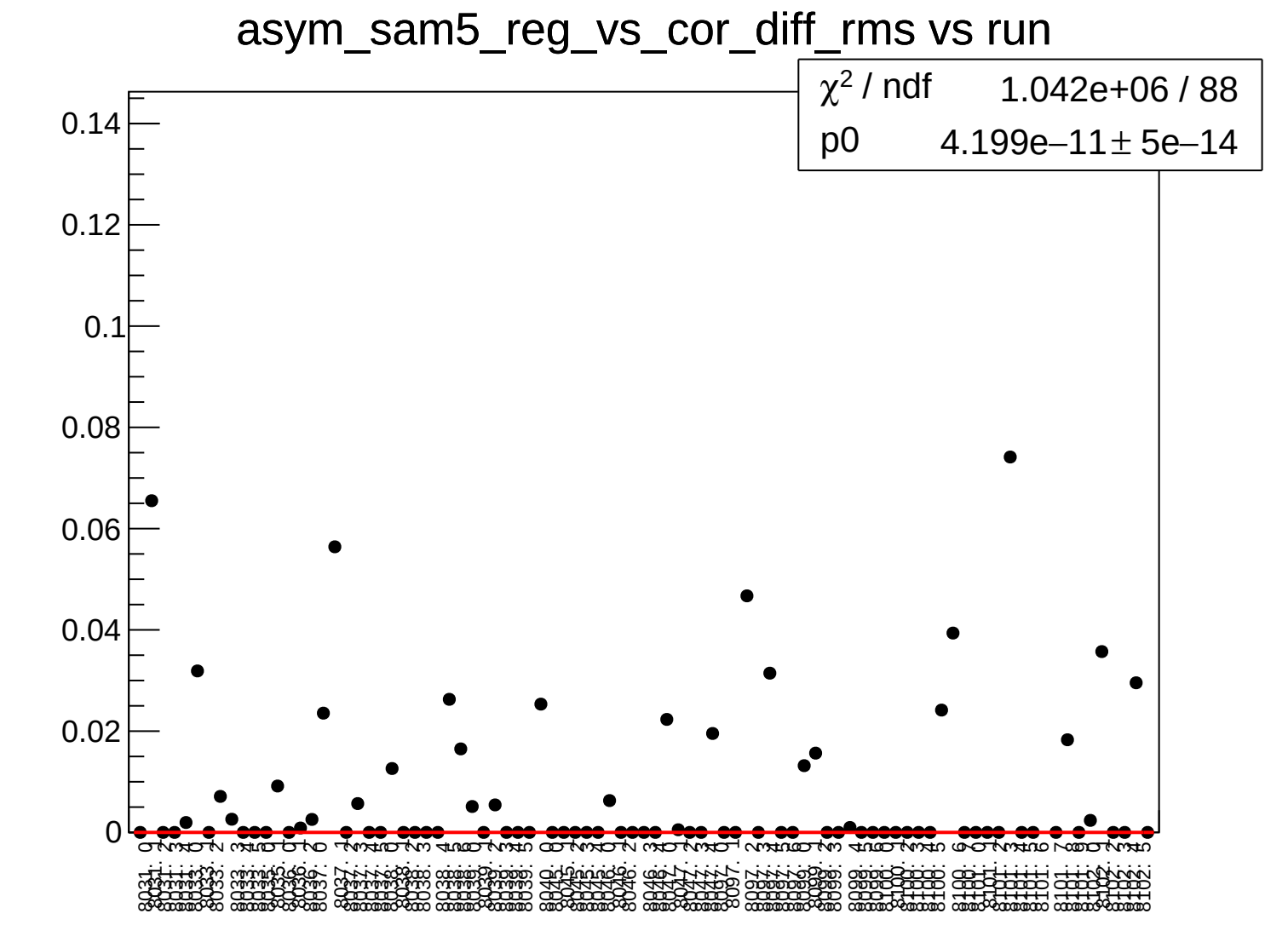

pull1D
Entries 89
Mean 0.01218
Std Dev 0.9994

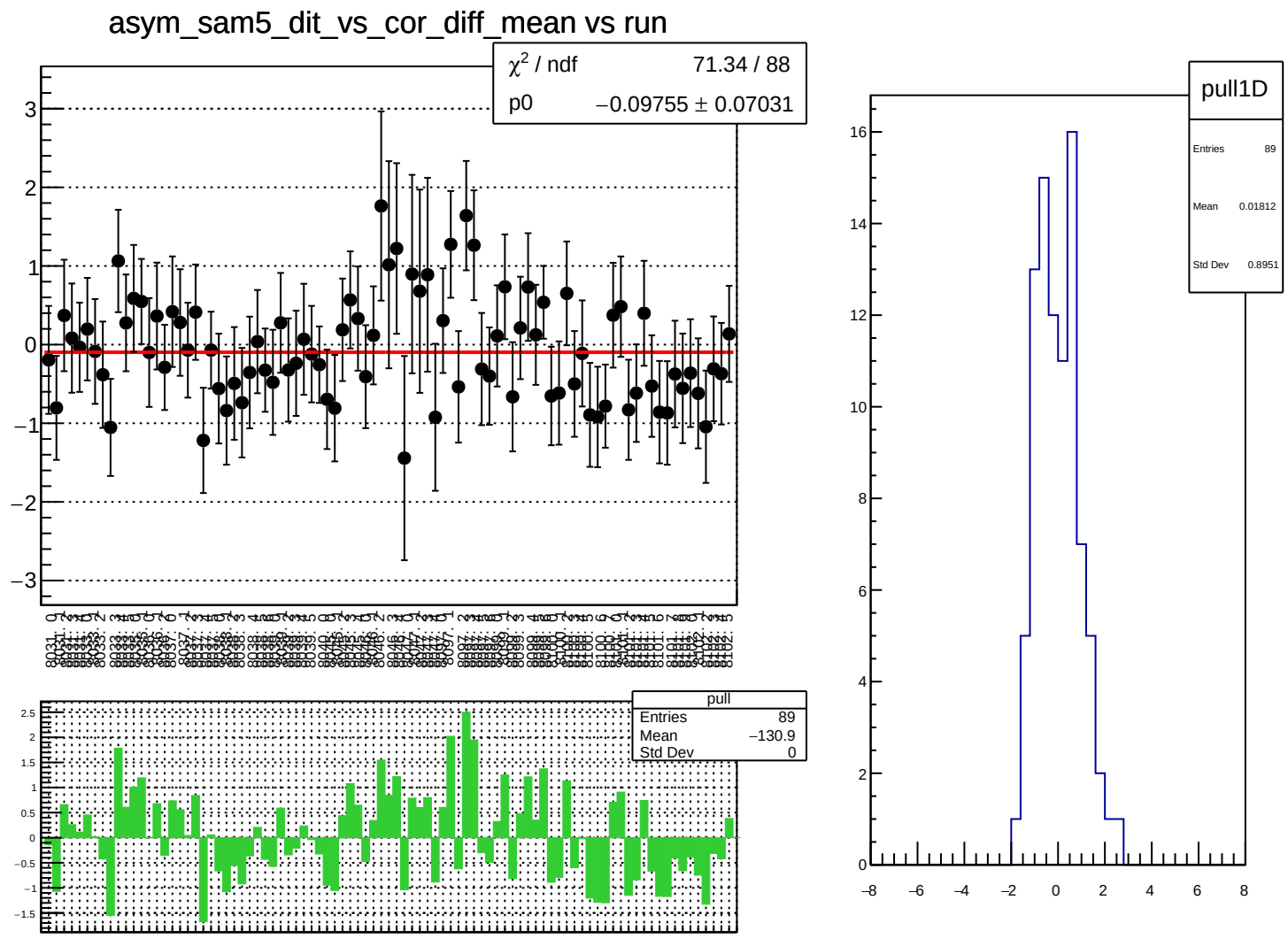

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 2.862e+04 / 88
p0 1111 ± 0.8477
1700
1600
1500
1400
1300
1200
1100
1000
900
800

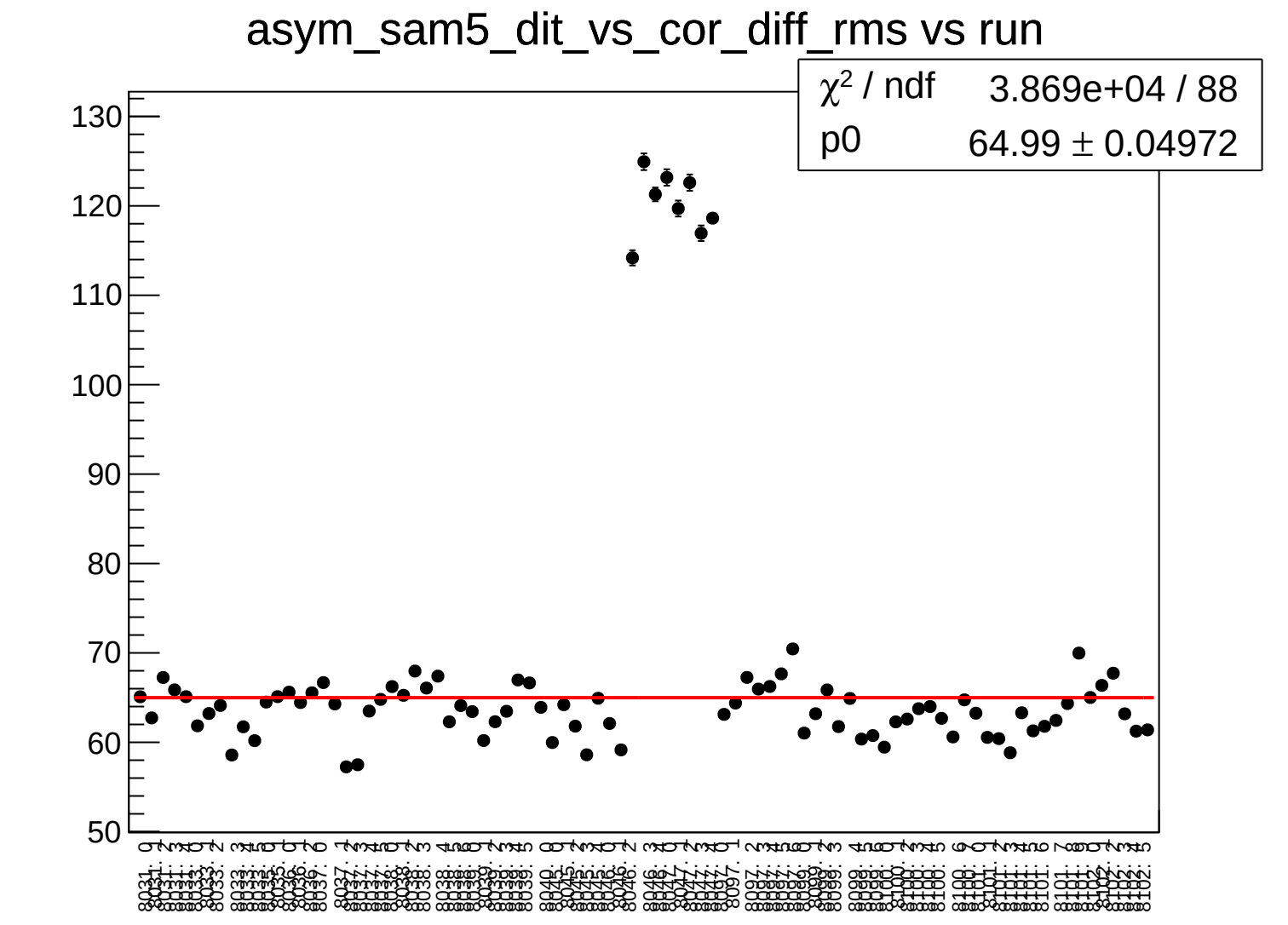

asym_sam5_mean vs run
χ² / ndf 86.98 / 88
p0 −45.57 ± 1172
pull
Entries 89
Mean 50.02
Std Dev 0
pull1D
Entries 89
Mean −0.01033
Std Dev 0.9885

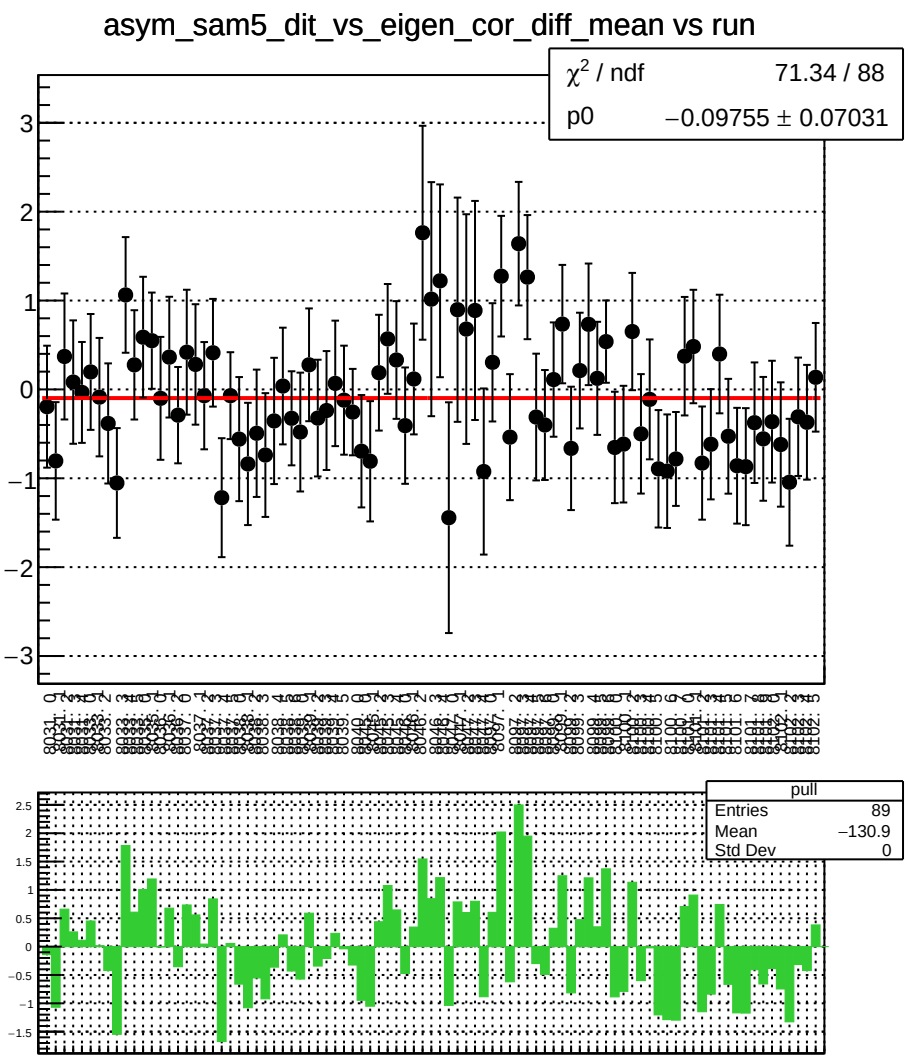

asym_sam5_rms vs run
χ² / ndf 3.163e+04 / 88
p0 1086 ± 0.8288
1700
1600
1500
1400
1300
1200
1100
1000
900
800

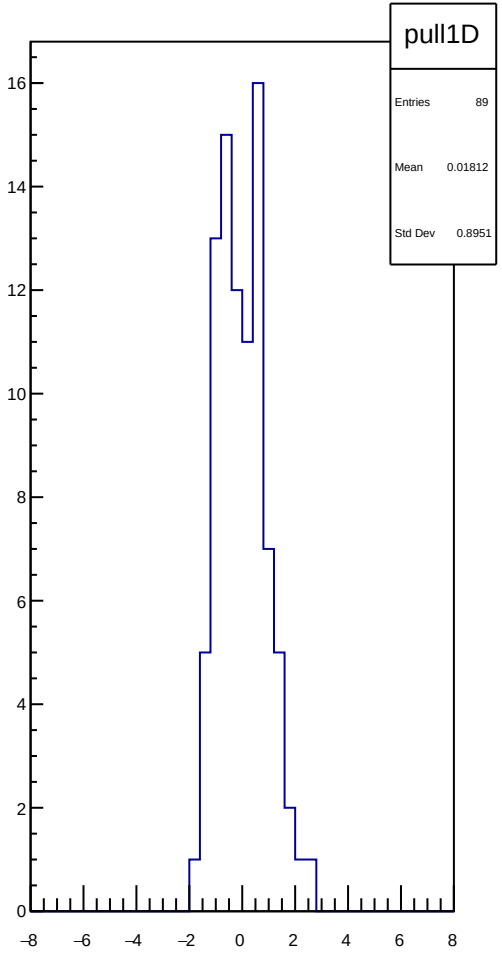

asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 82.96 / 88
p0 −6.484e−14 ± 7.071e−14
0.004
0.003
0.002
0.001
0
−0.001
−0.002
pull
Entries 89
Mean −34.16
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.05916
Std Dev 0.9636
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

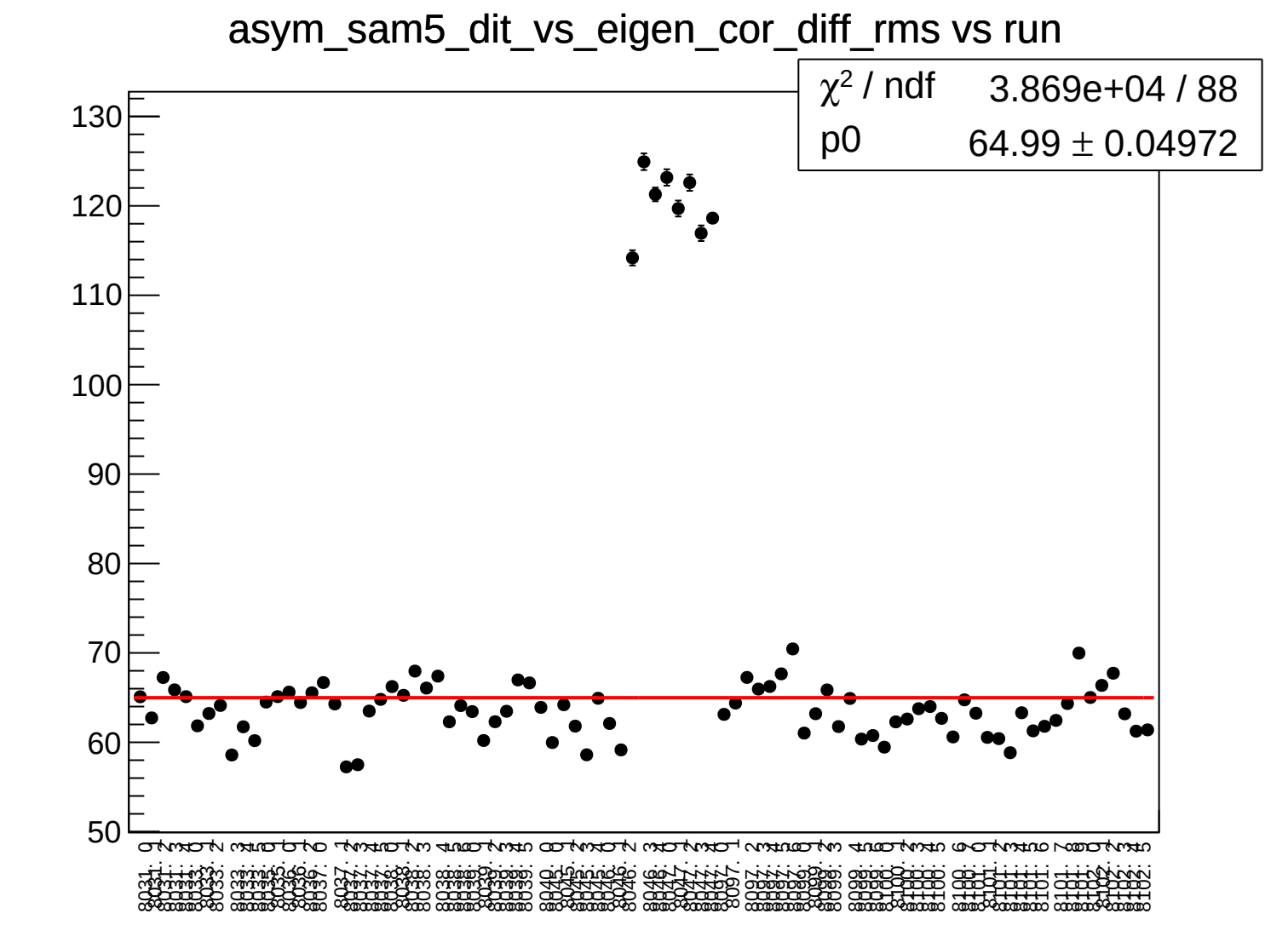

asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 1.042e+06 / 88
p0 4.199e−11 ± 5e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

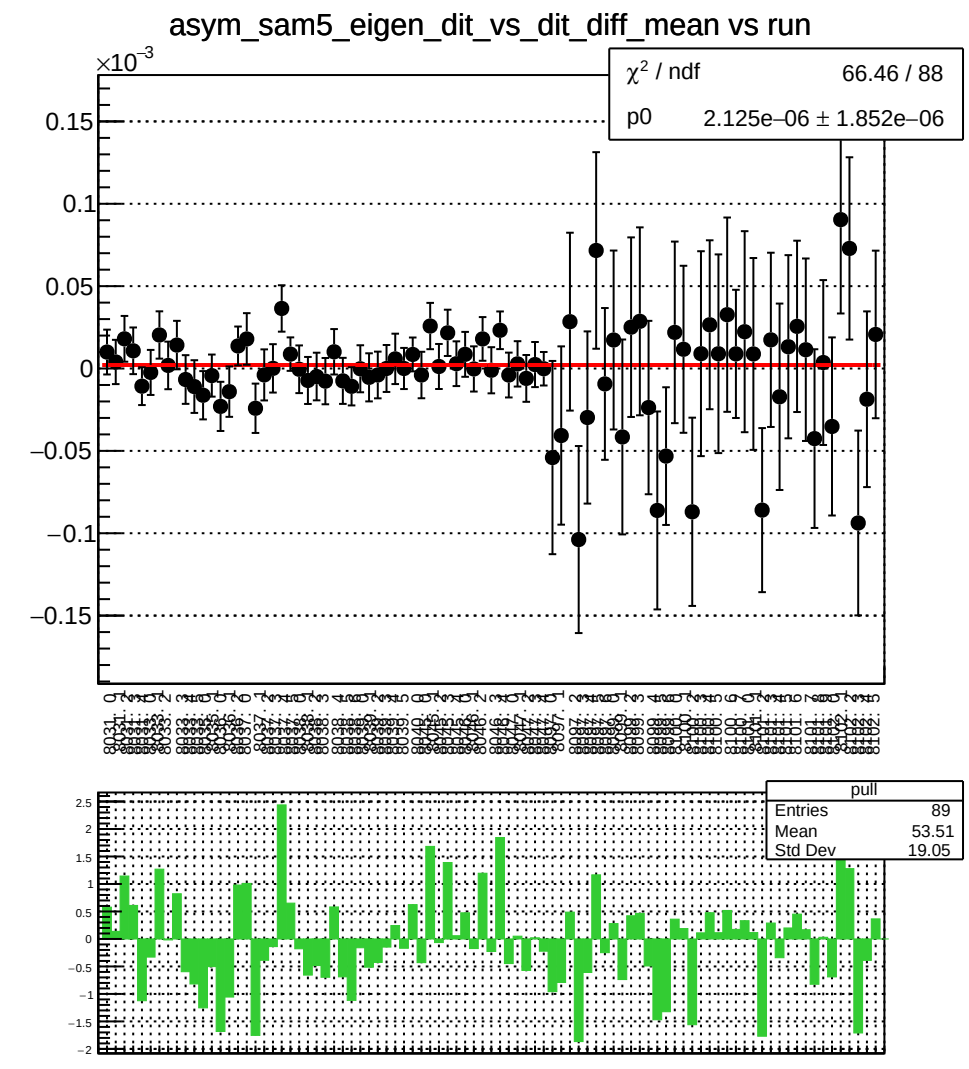

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 71.34 / 88
p0 −0.09755 ± 0.07031
pull
Entries 89
Mean −130.9
Std Dev 0
pull1D
Entries 89
Mean 0.01812
Std Dev 0.8951

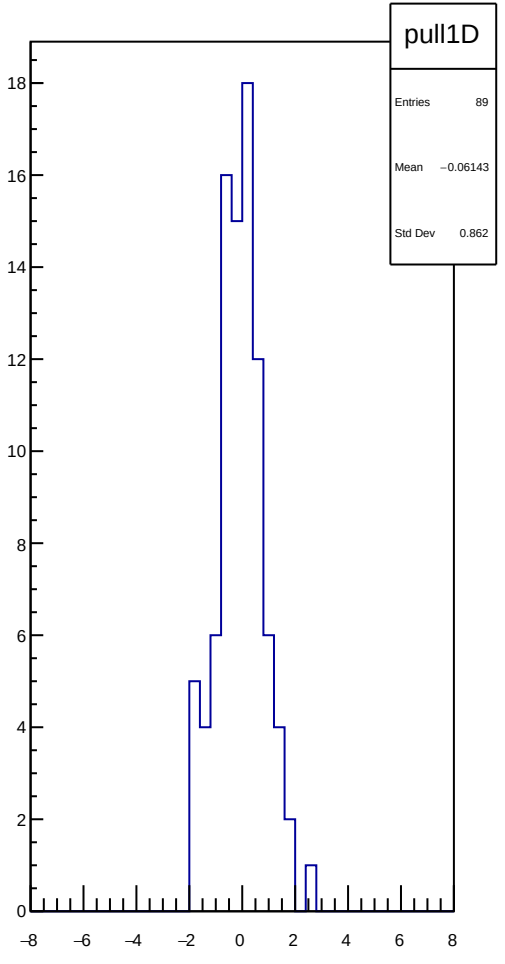

asym_sam5_dit_vs_cor_diff_rms vs run
χ² / ndf 3.869e+04 / 88
p0 64.99 ± 0.04972
130
120
110
100
90
80
70
60
50

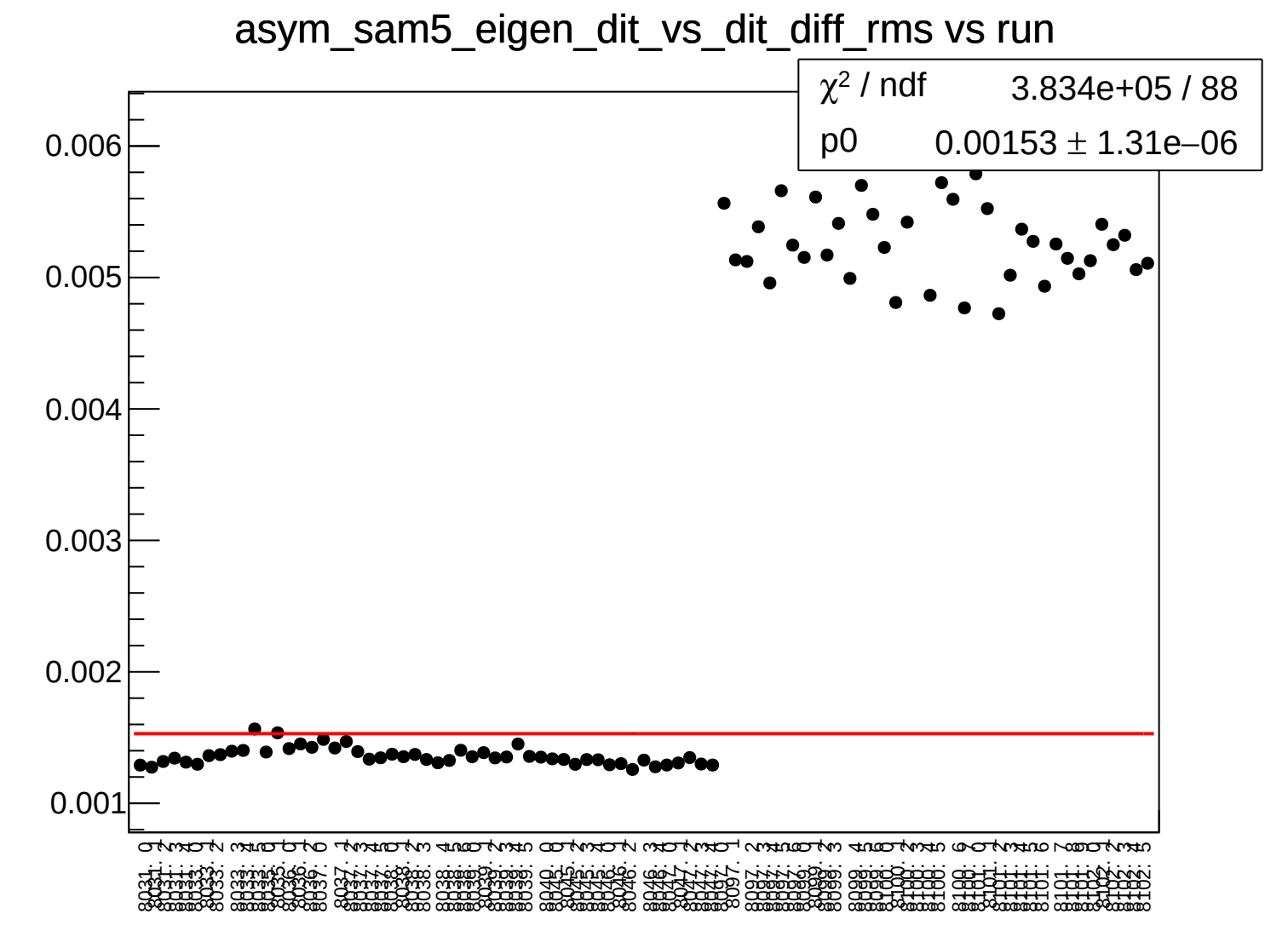

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.34 / 88
p0 −0.09755 ± 0.07031
pull
Entries 89
Mean −130.9
Std Dev 0

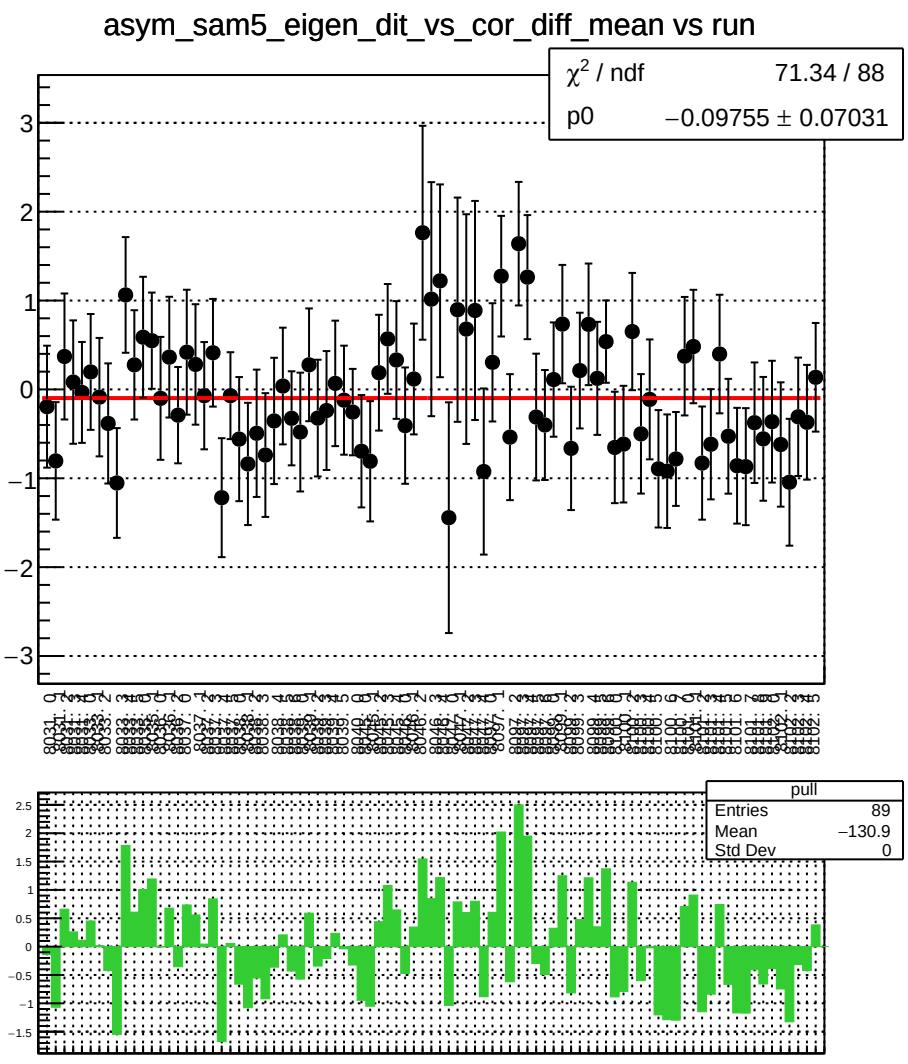

pull1D
Entries 89
Mean 0.01812
Std Dev 0.8951

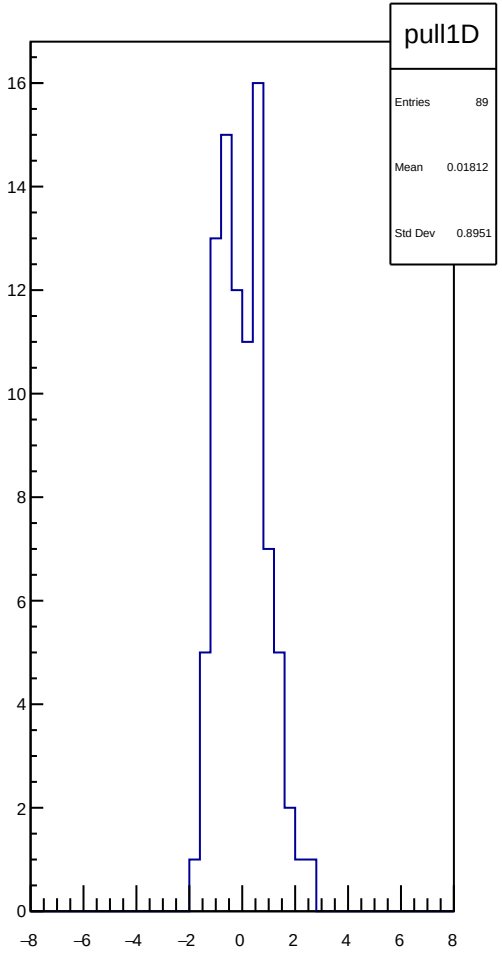

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.869e+04 / 88
p0 64.99 ± 0.04972
130
120
110
100
90
80
70
60
50

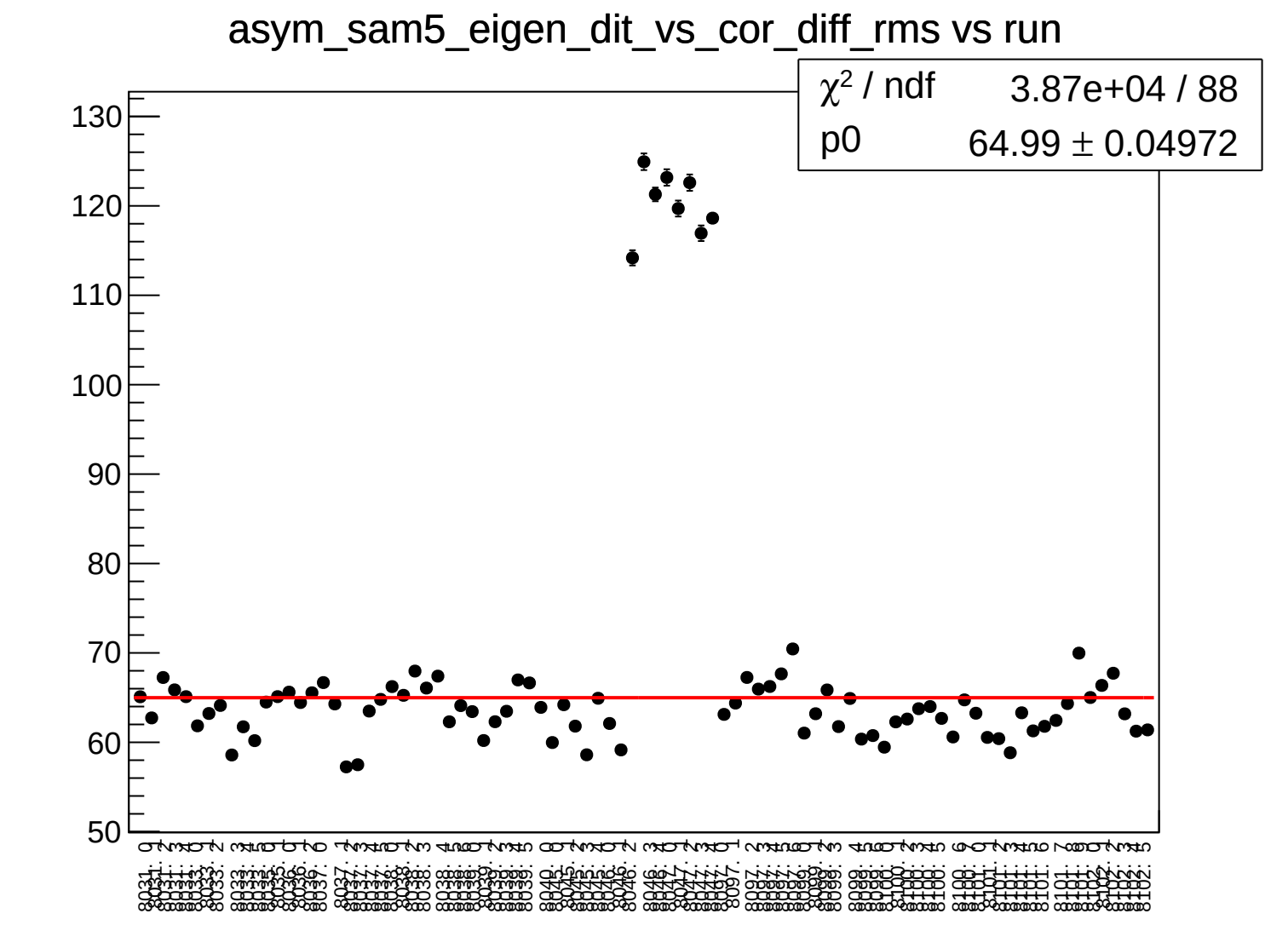

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 66.46 / 88
p0 2.125e−06 ± 1.852e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 89
Mean 53.51
Std Dev 19.05
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

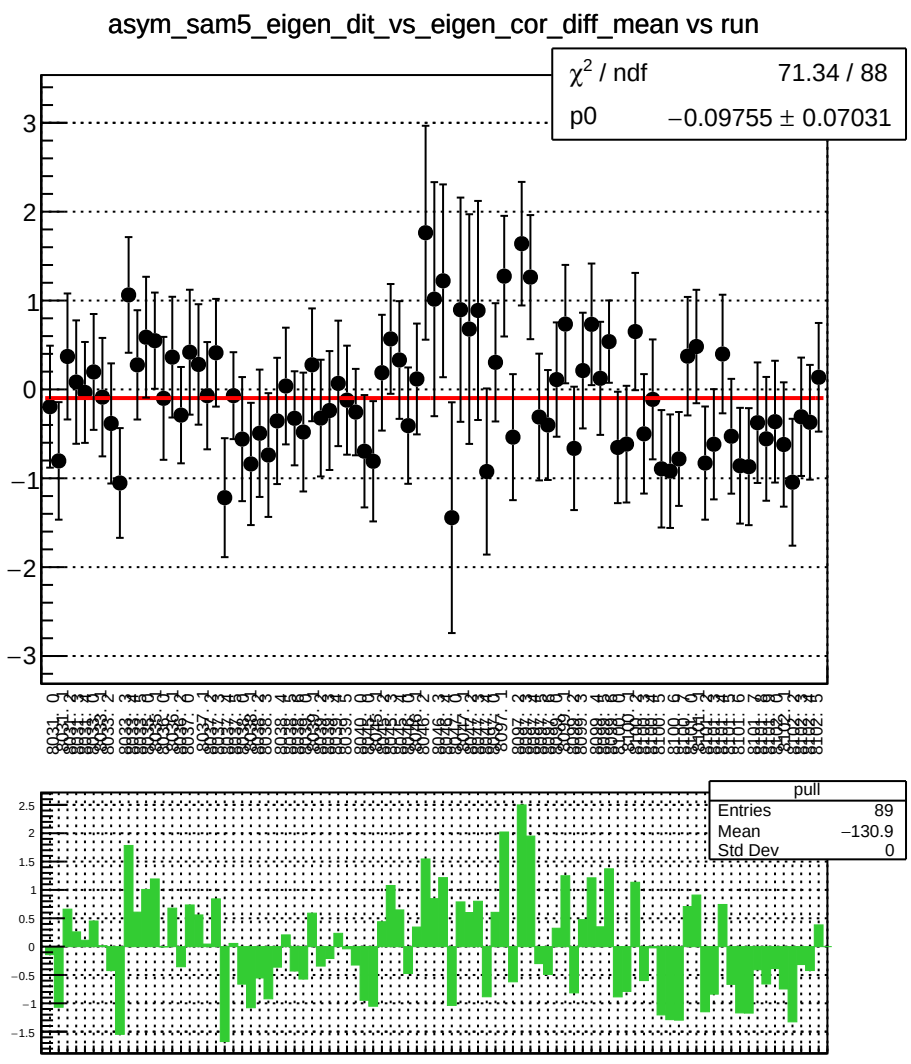

pull1D
Entries 89
Mean −0.06143
Std Dev 0.862
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

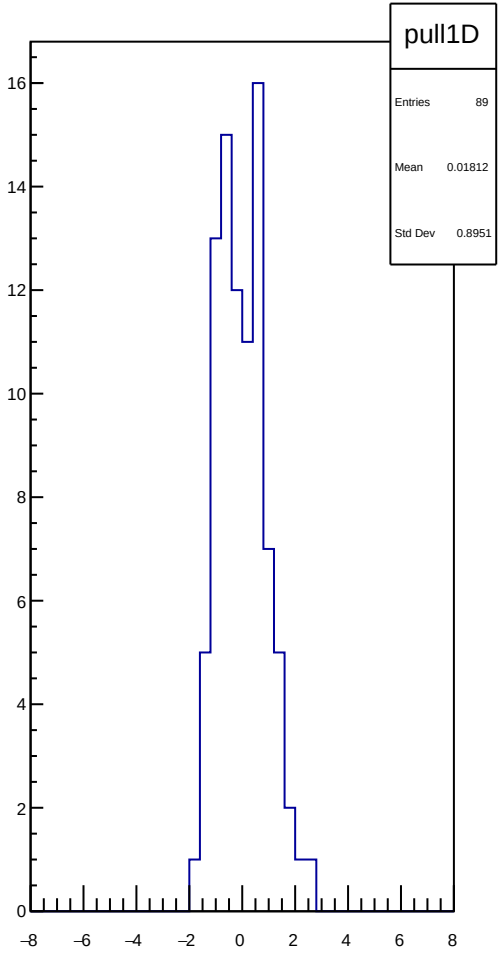

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.834e+05 / 88
p0 0.00153 ± 1.31e−06
0.006
0.005
0.004
0.003
0.002
0.001

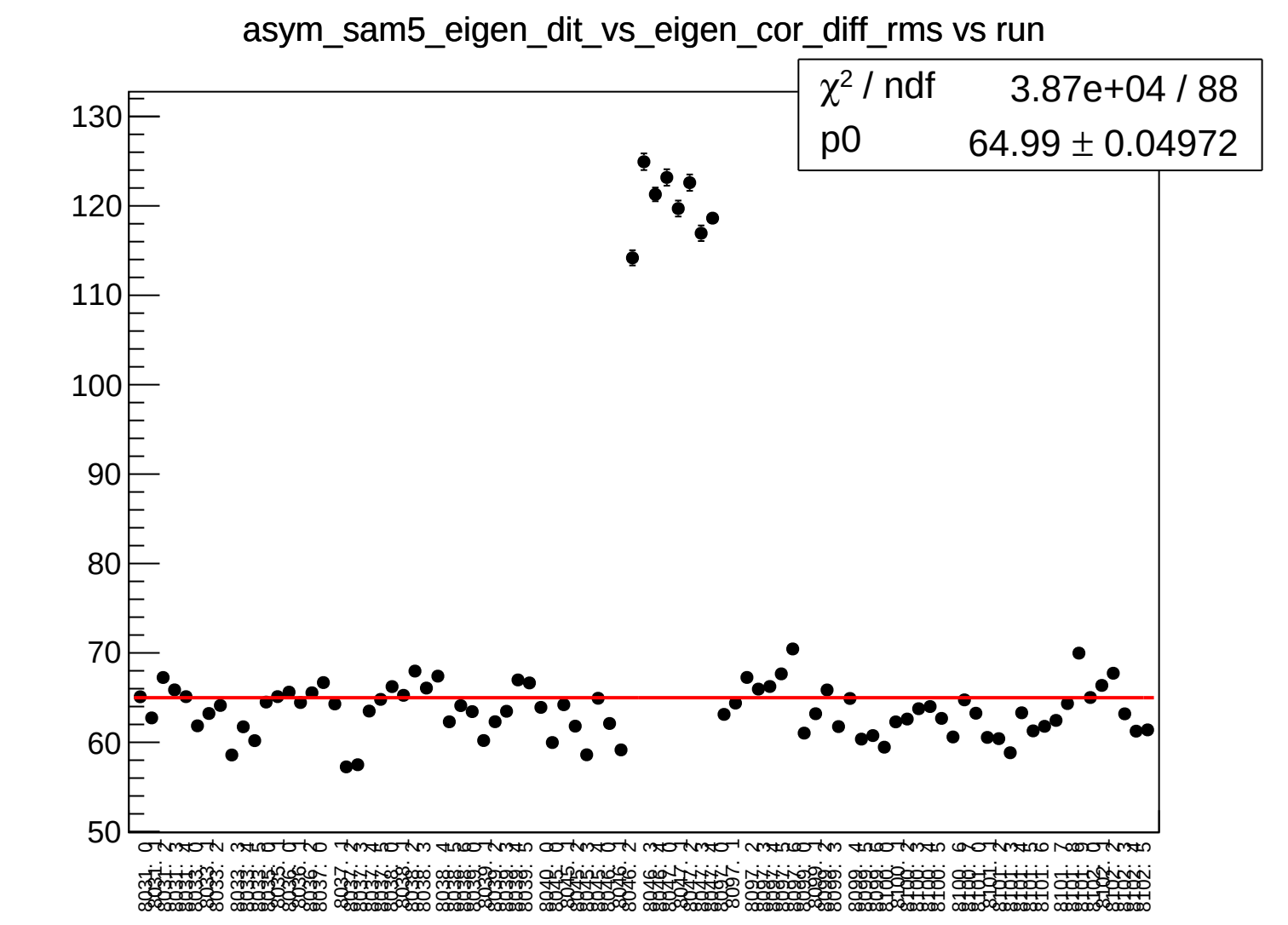

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.34 / 88
p0 −0.09755 ± 0.07031
pull
Entries 89
Mean −130.9
Std Dev 0

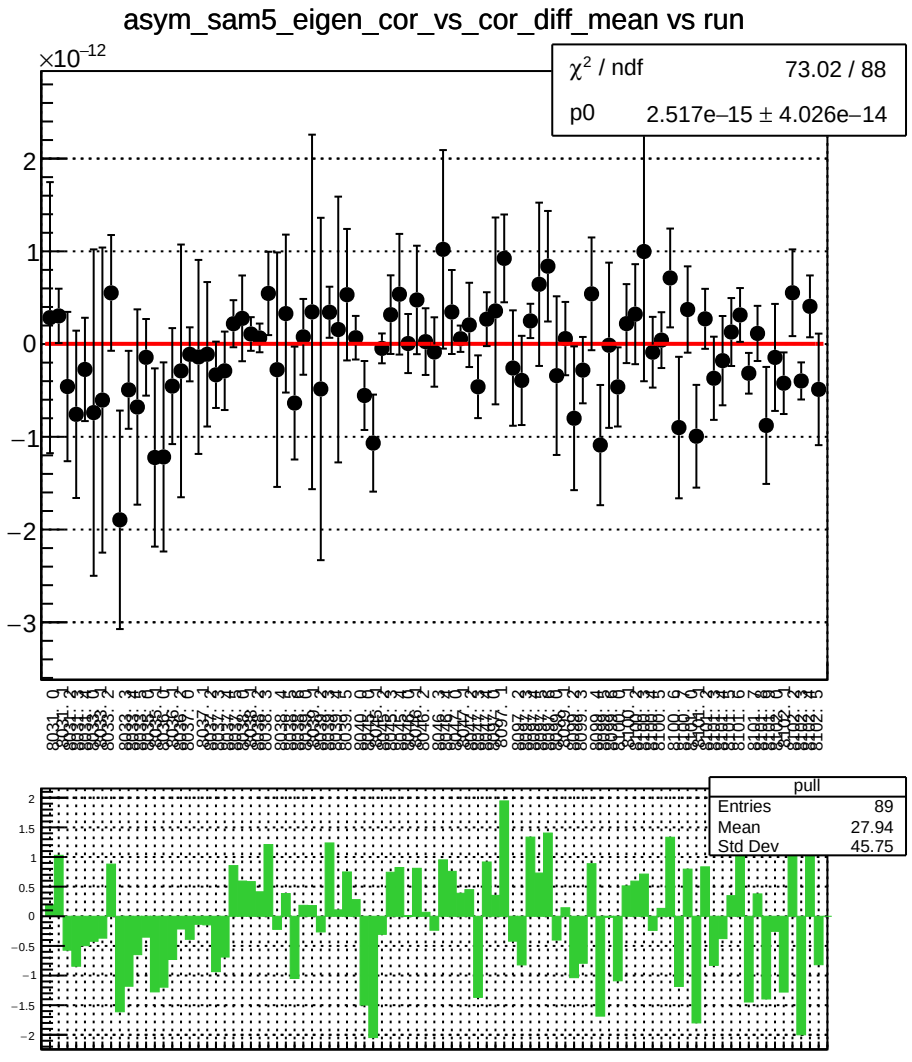

pull1D
Entries 89
Mean 0.01812
Std Dev 0.8951

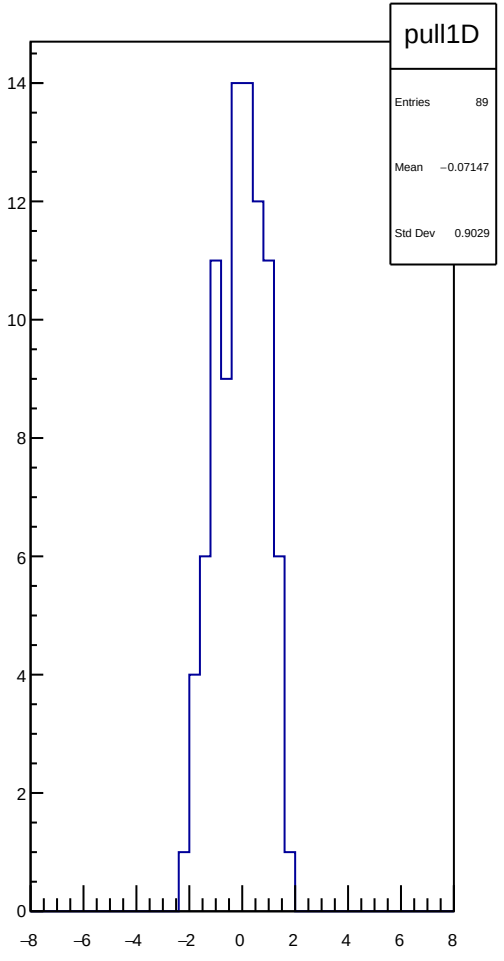

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.87e+04 / 88
p0 64.99 ± 0.04972
130
120
110
100
90
80
70
60
50

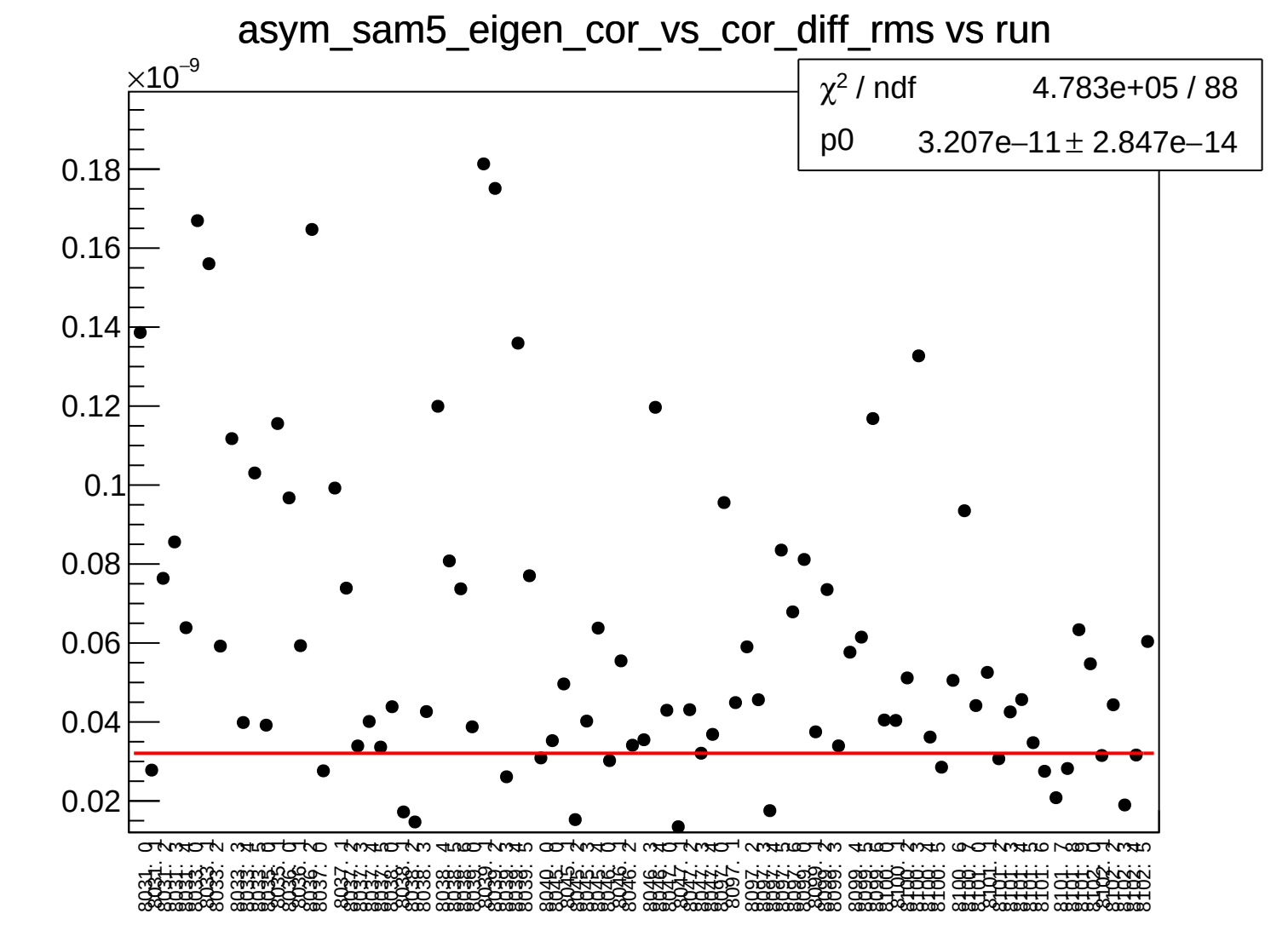

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.34 / 88
p0 −0.09755 ± 0.07031
pull
Entries 89
Mean −130.9
Std Dev 0

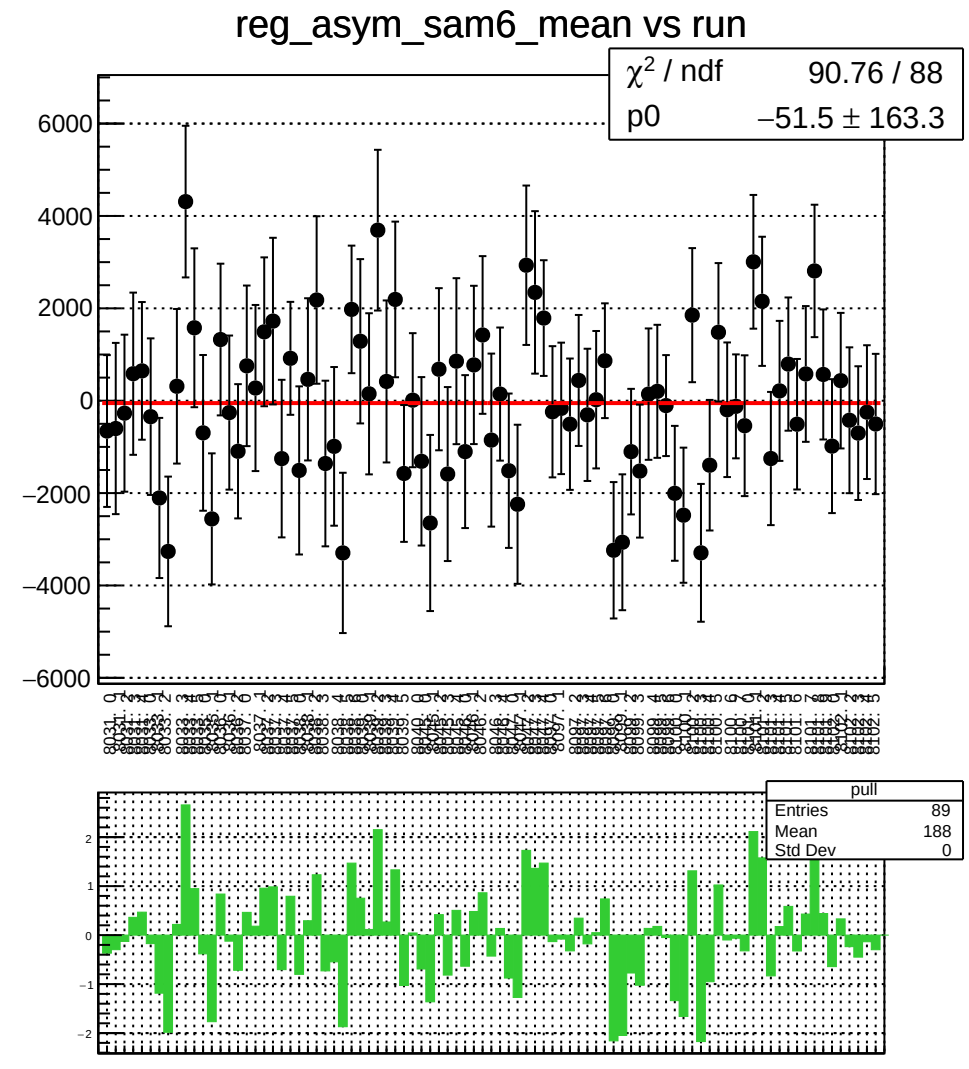

pull1D
Entries 89
Mean 0.01812
Std Dev 0.8951

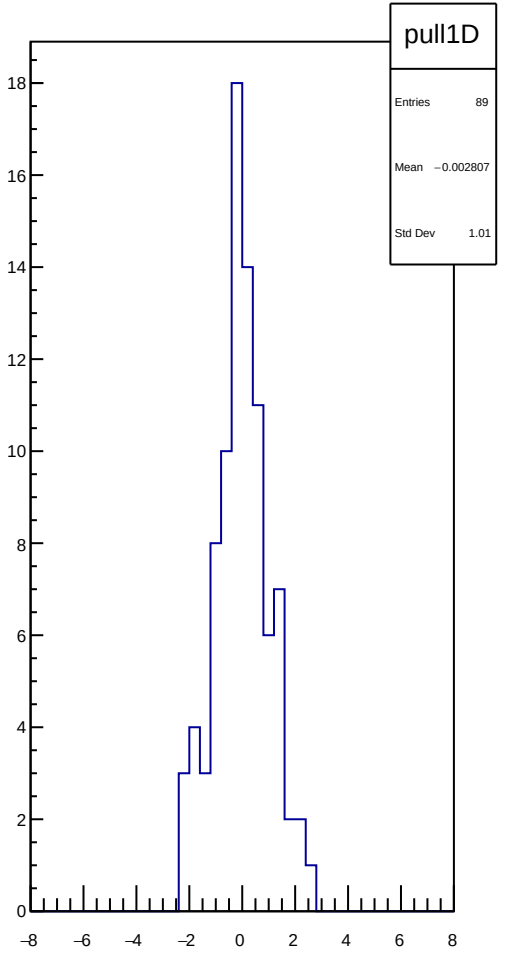

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.87e+04 / 88
p0 64.99 ± 0.04972
130
120
110
100
90
80
70
60
50

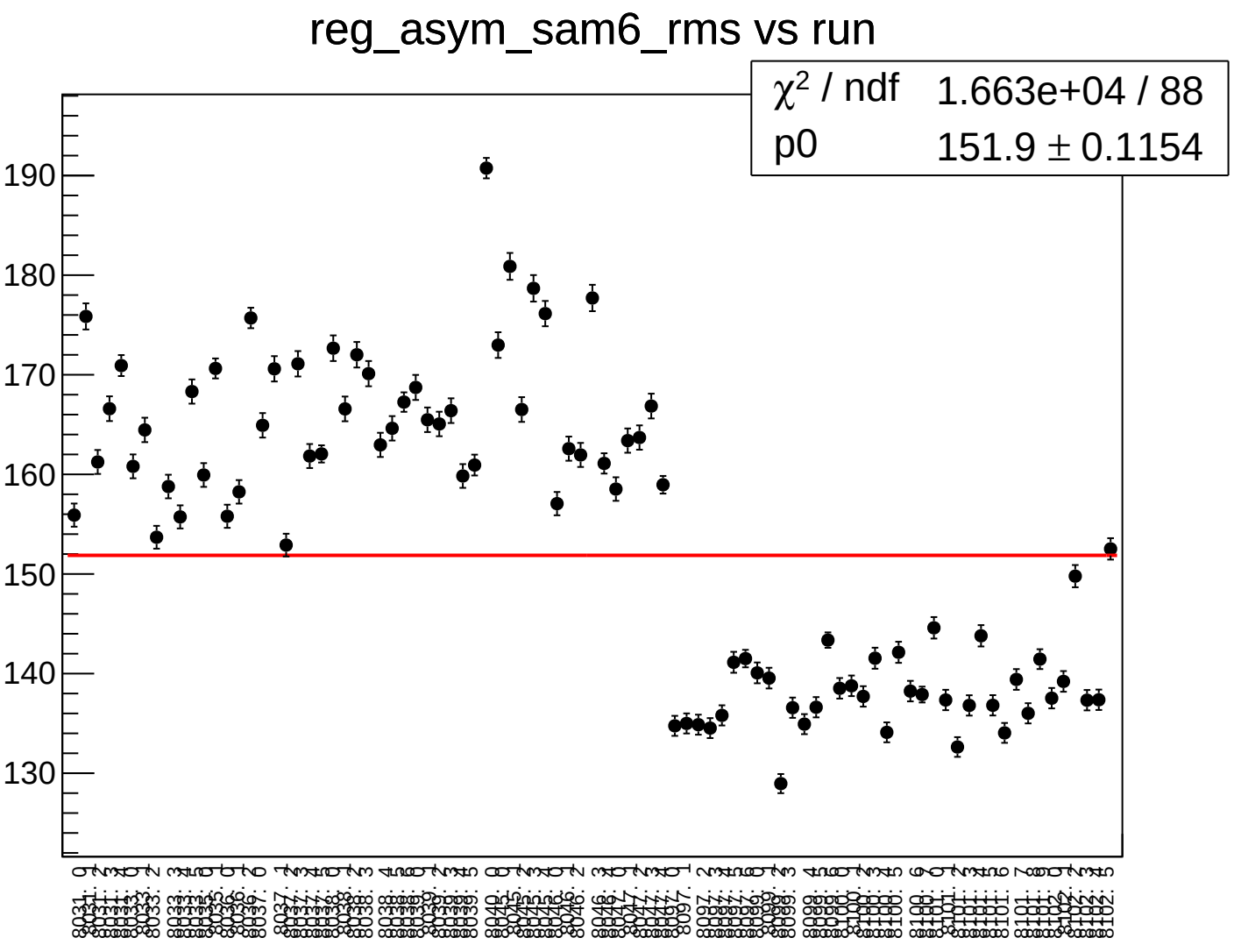

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.02 / 88
p0 2.517e−15 ± 4.026e−14
pull
Entries 89
Mean 27.94
Std Dev 45.75

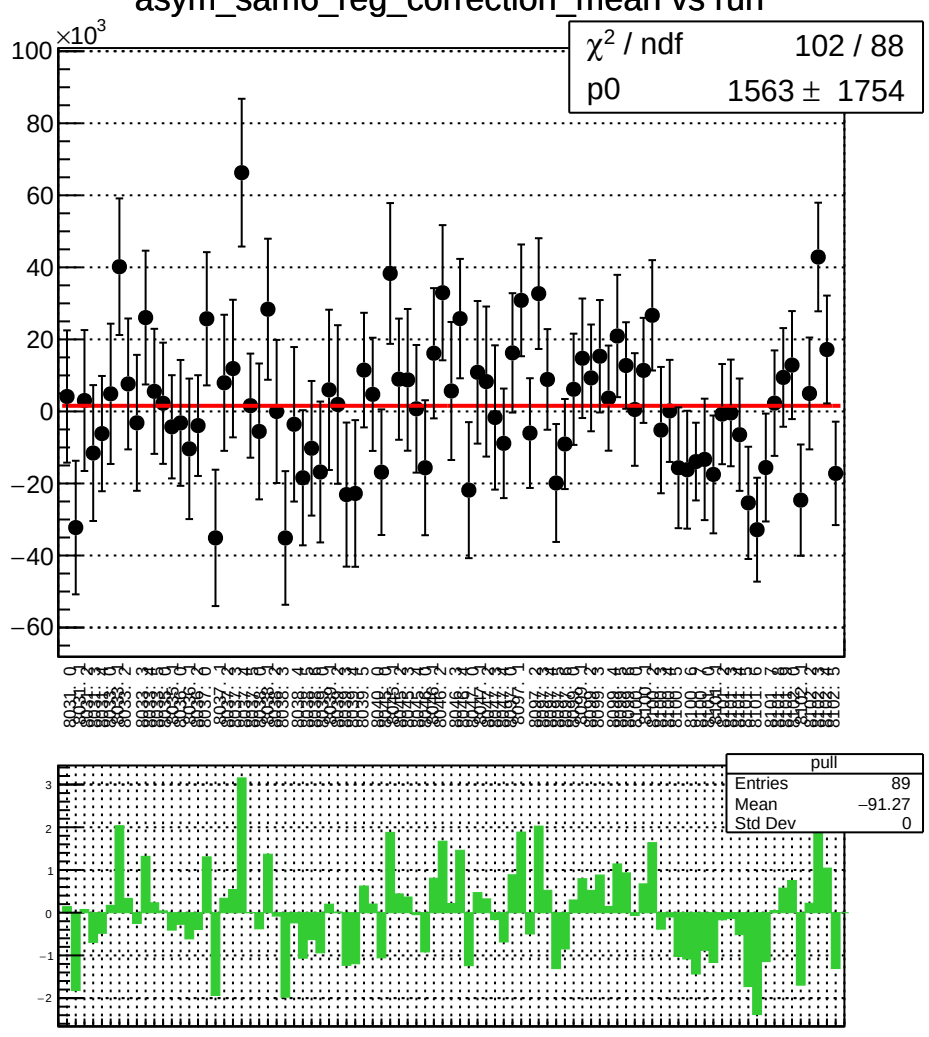

pull1D
Entries 89
Mean −0.07147
Std Dev 0.9029

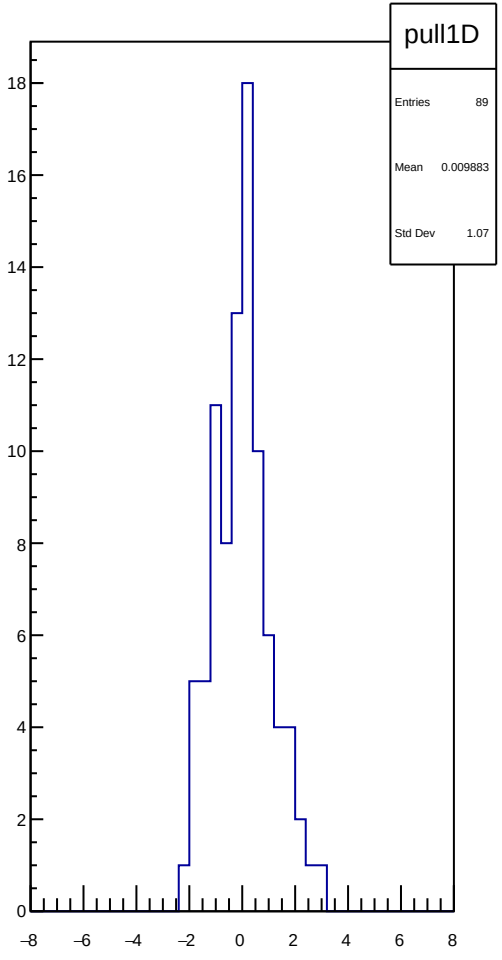

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.783e+05 / 88
p0 3.207e−11 ± 2.847e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

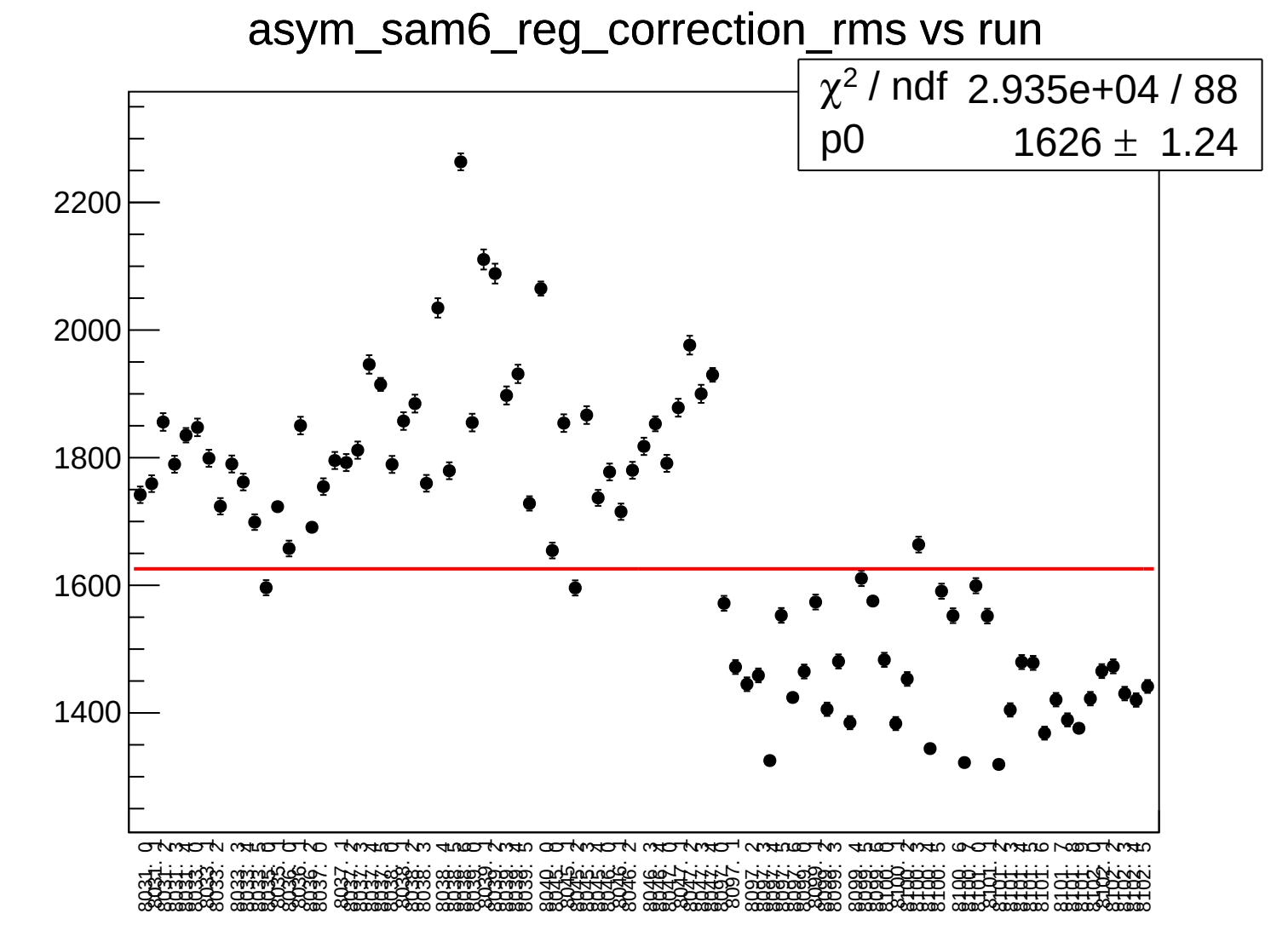

reg_asym_sam6_mean vs run
χ² / ndf 90.76 / 88
p0 −51.5 ± 163.3
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 188
Std Dev 0
2
1
0
−1
−2

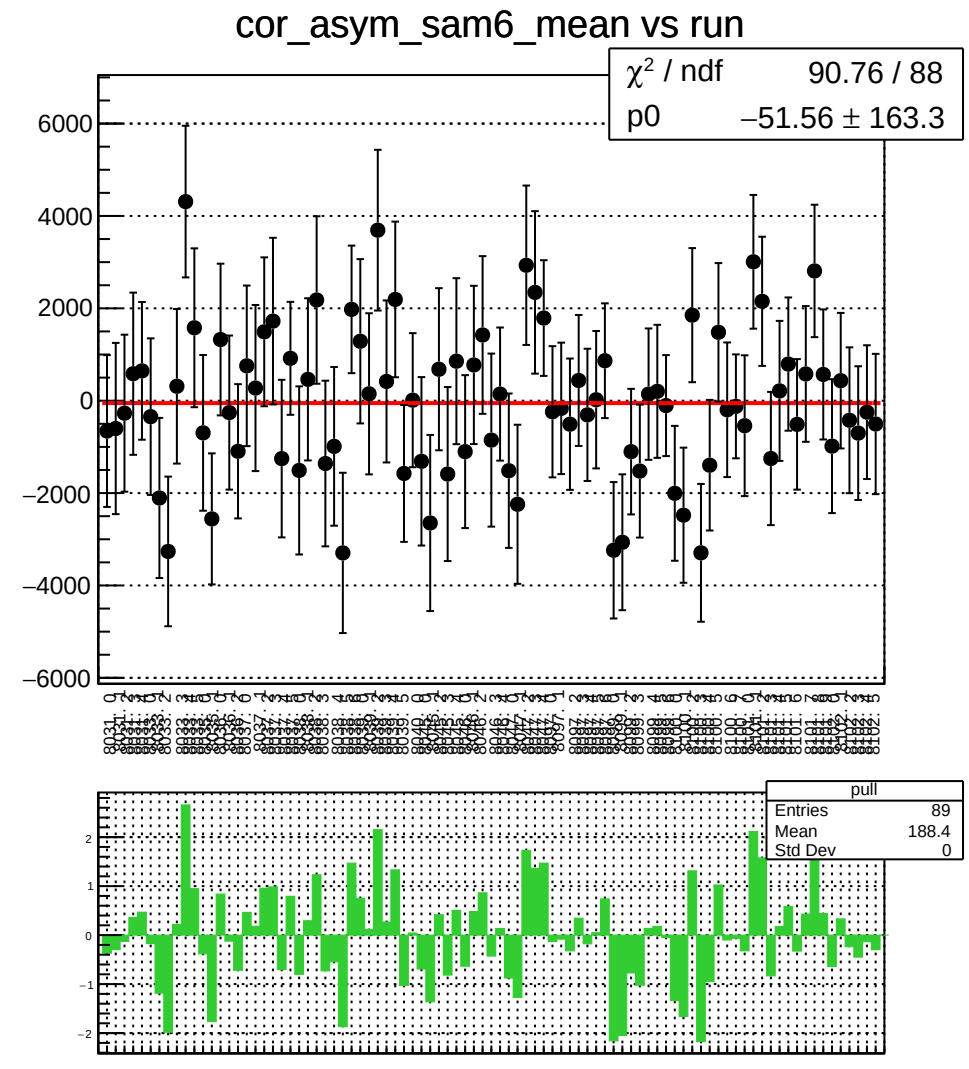

pull1D
Entries 89
Mean −0.002807
Std Dev 1.01
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

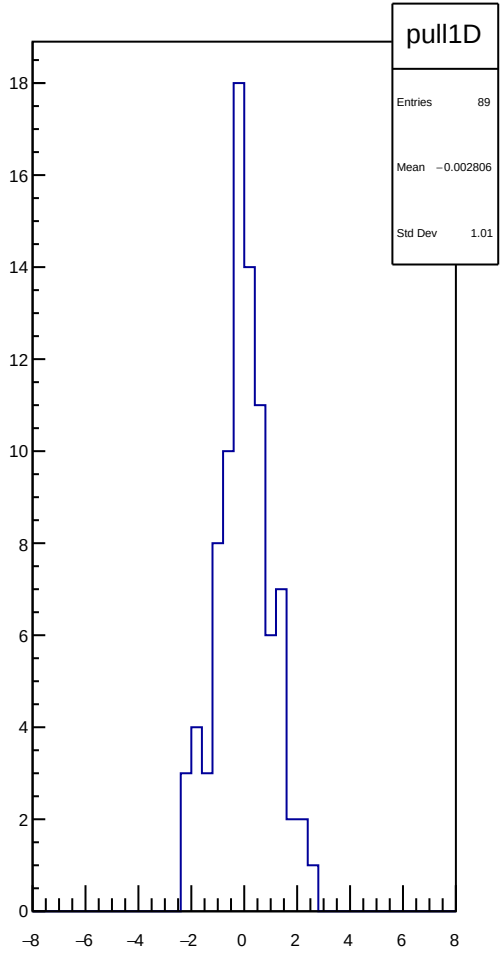

reg_asym_sam6_rms vs run
χ² / ndf 1.663e+04 / 88
p0 151.9 ± 0.1154
190
180
170
160
150
140
130

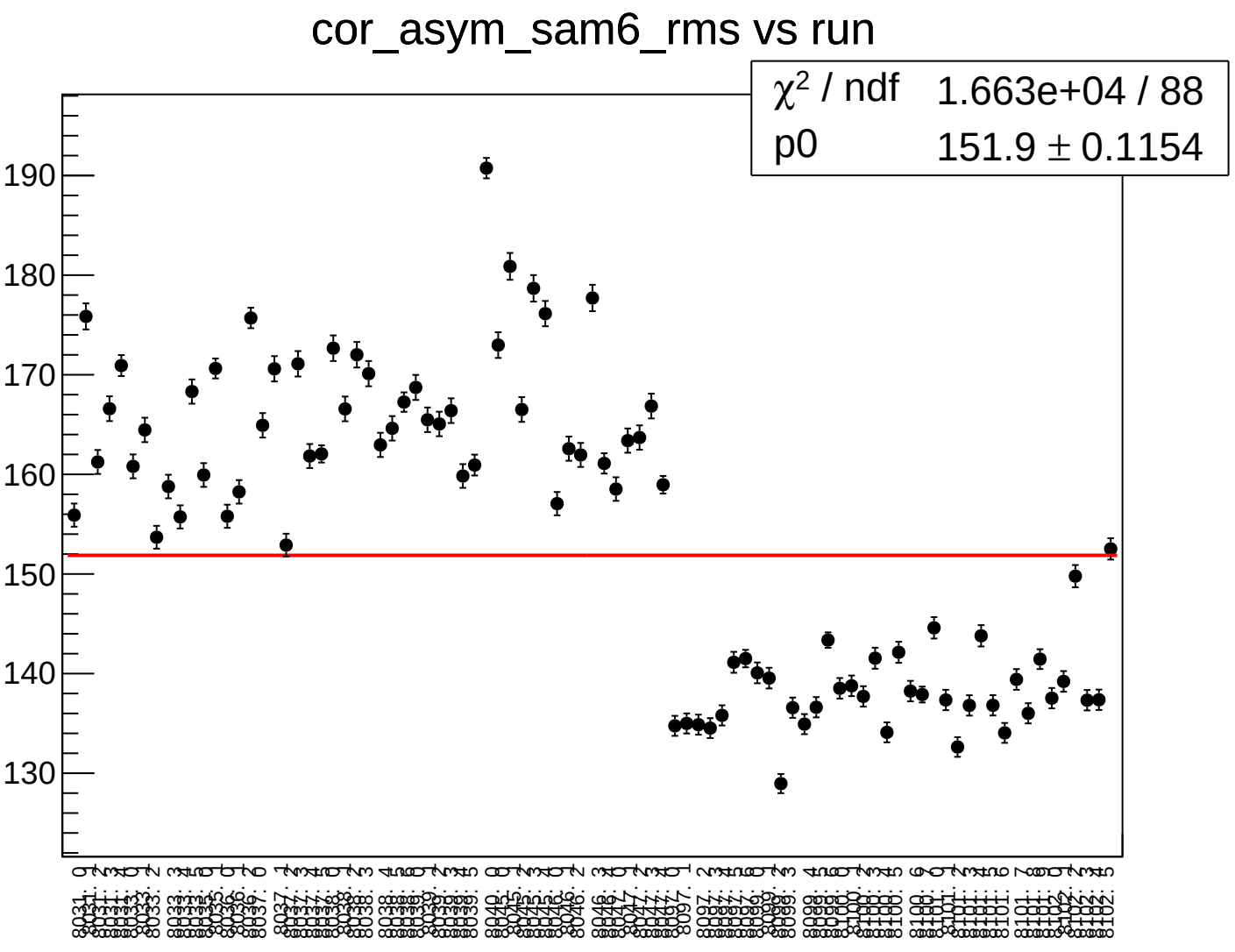

asym_sam6_reg_correction_mean vs run
χ² / ndf 102 / 88
p0 1563 ± 1754
pull
Entries 89
Mean −91.27
Std Dev 0

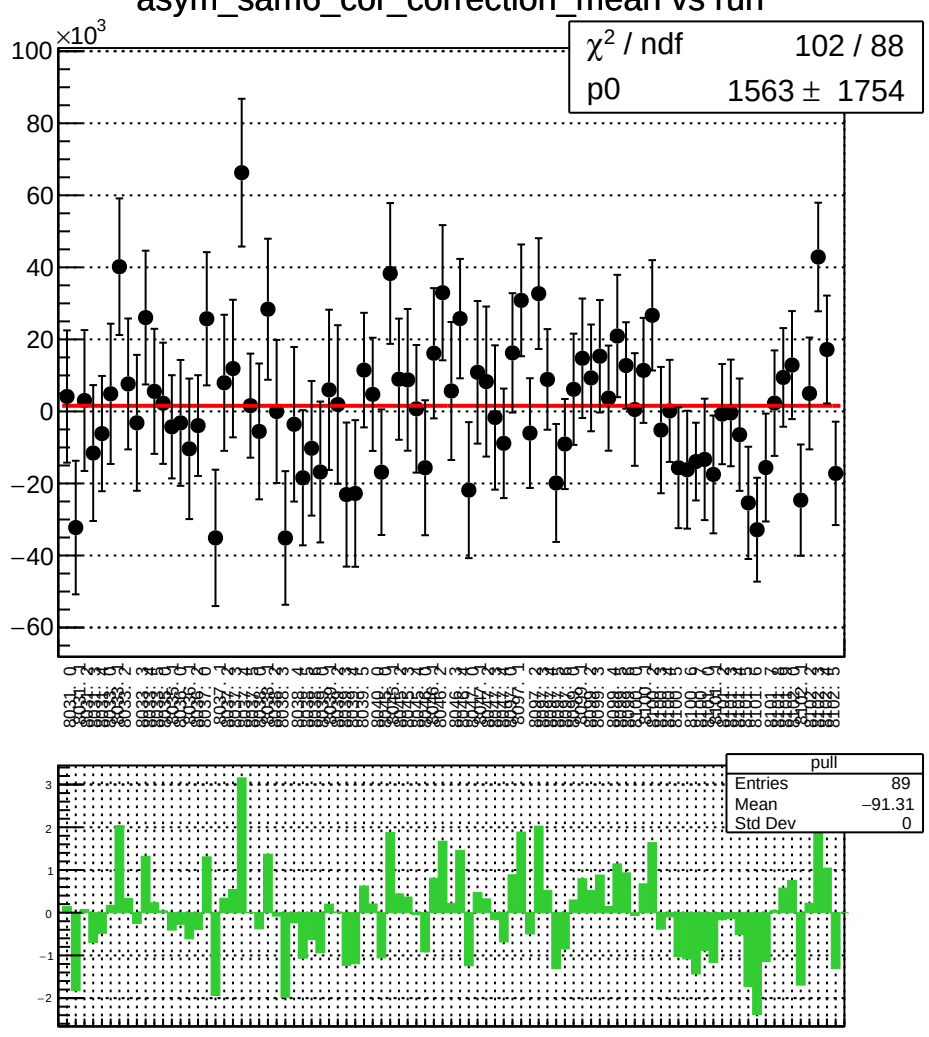

pull1D
Entries 89
Mean 0.009883
Std Dev 1.07

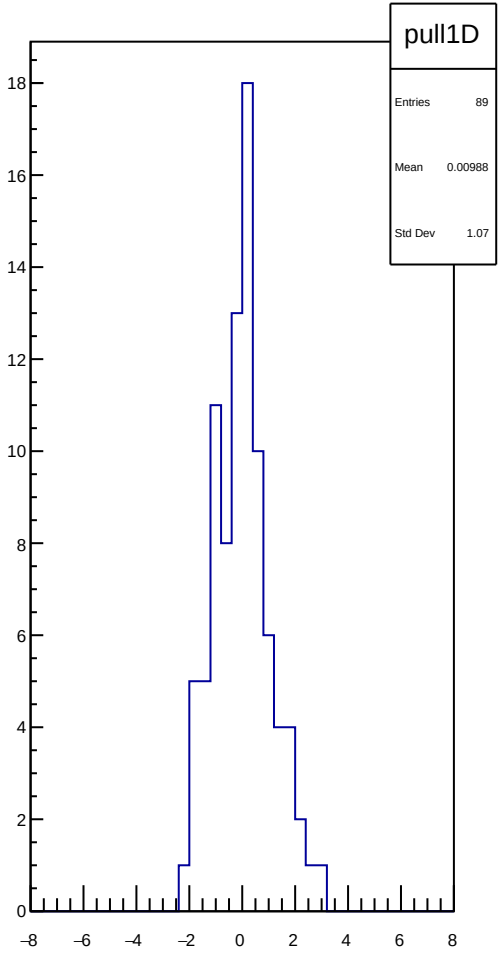

asym_sam6_reg_correction_rms vs run
χ² / ndf 2.935e+04 / 88
p0 1626 ± 1.24
2200
2000
1800
1600
1400

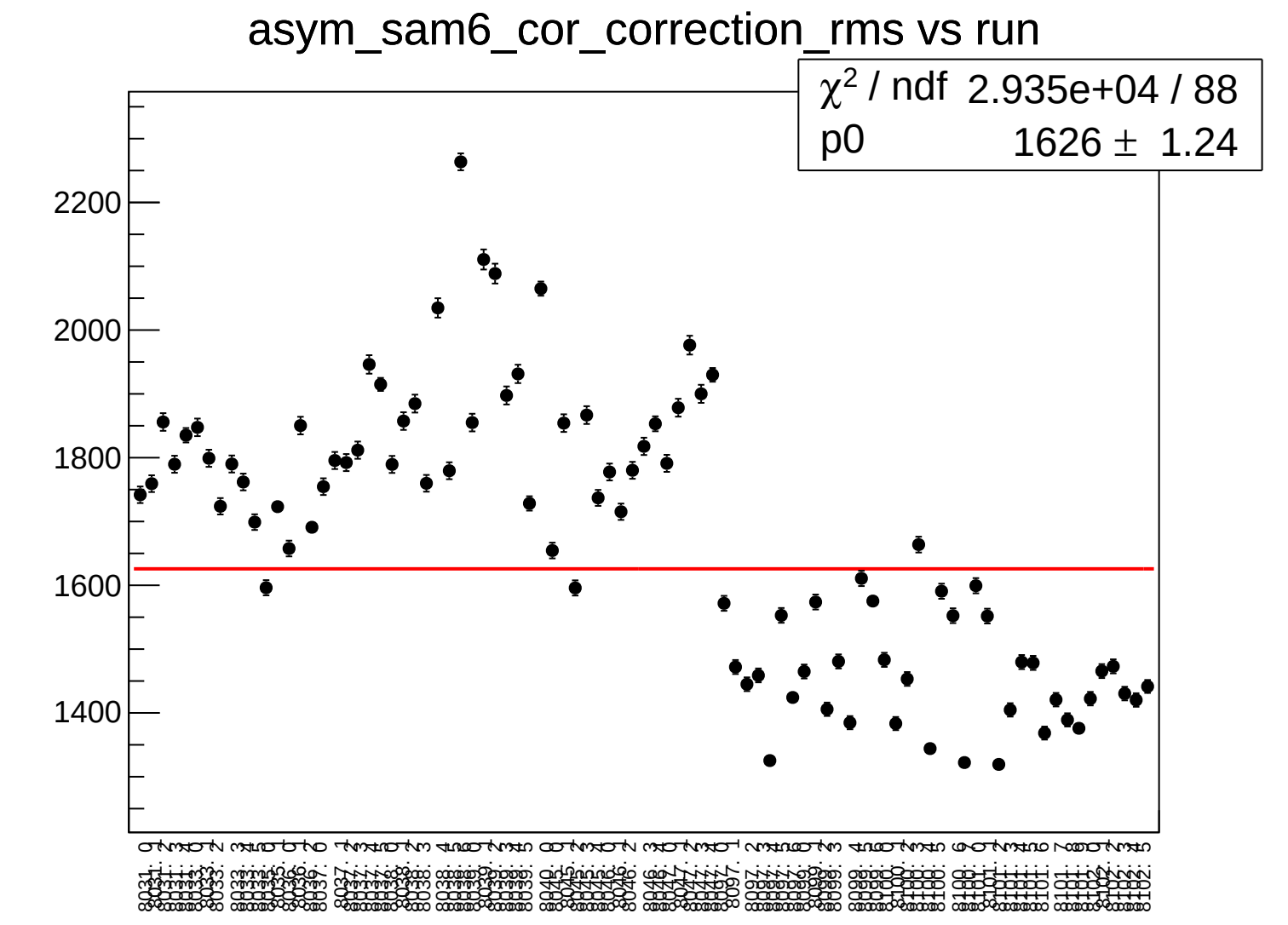

cor_asym_sam6_mean vs run
χ² / ndf 90.76 / 88
p0 −51.56 ± 163.3
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 188.4
Std Dev 0
2
1
0
−1
−2

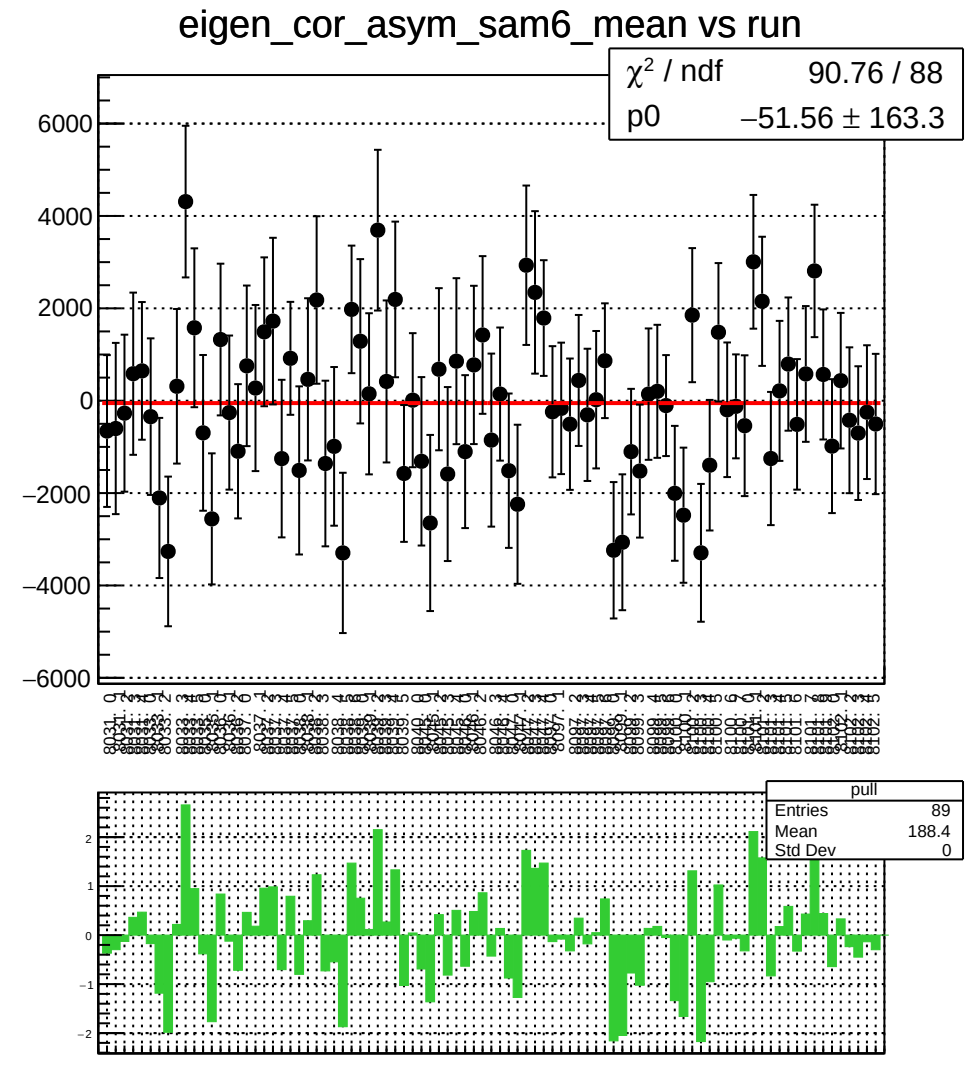

pull1D
Entries 89
Mean −0.002806
Std Dev 1.01
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

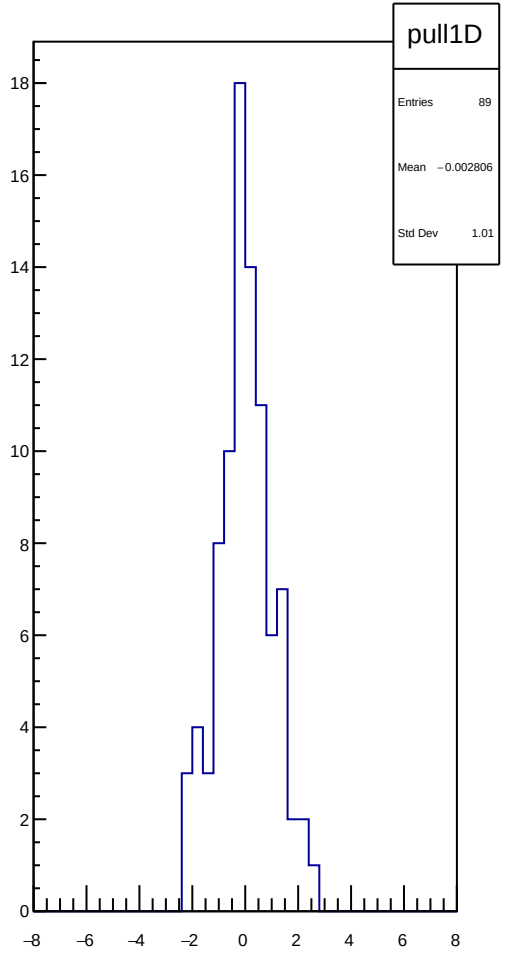

cor_asym_sam6_rms vs run
χ² / ndf 1.663e+04 / 88
p0 151.9 ± 0.1154
190
180
170
160
150
140
130

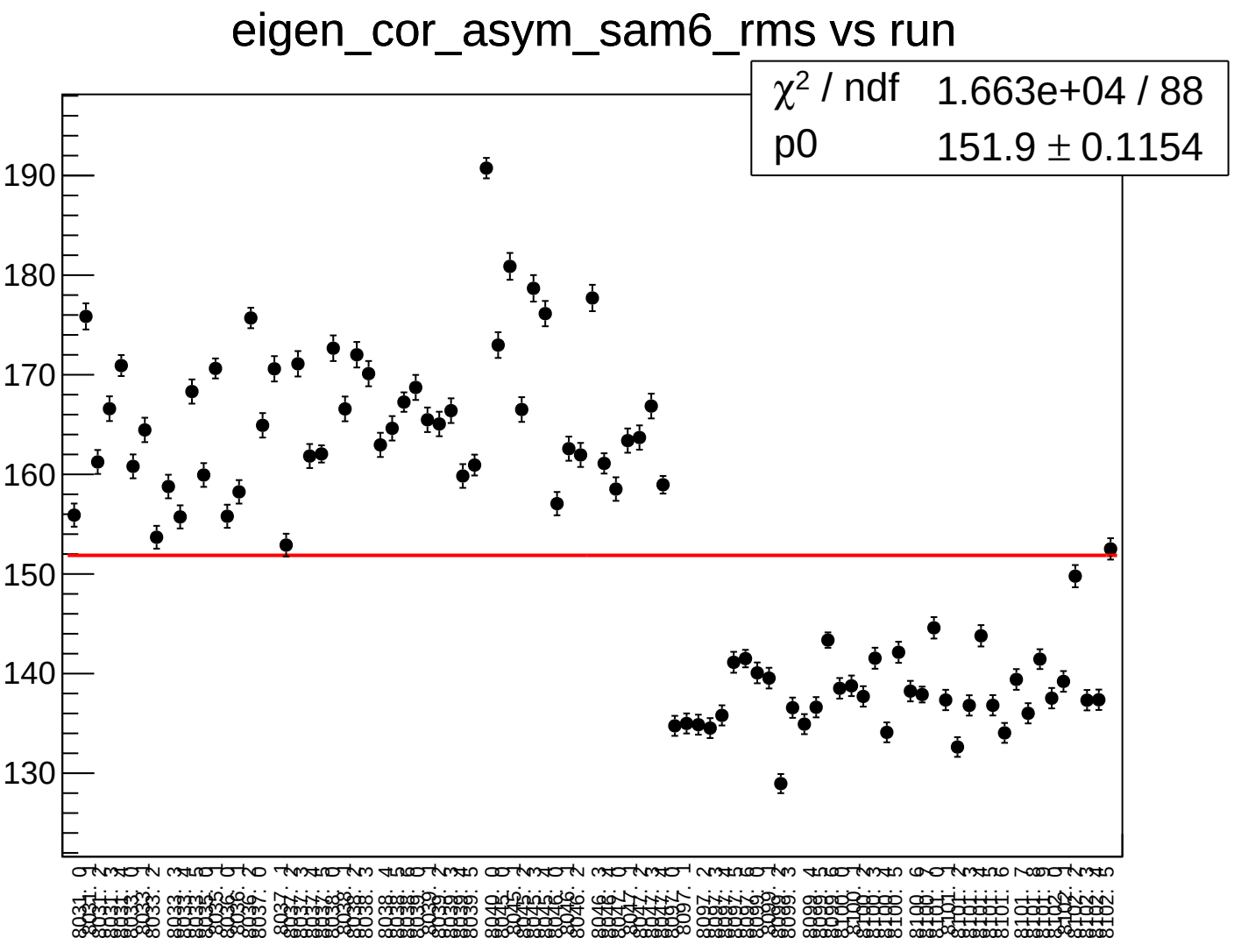

asym_sam6_cor_correction_mean vs run
×10^3
χ² / ndf 102 / 88
p0 1563 ± 1754
pull
Entries 89
Mean −91.31
Std Dev 0

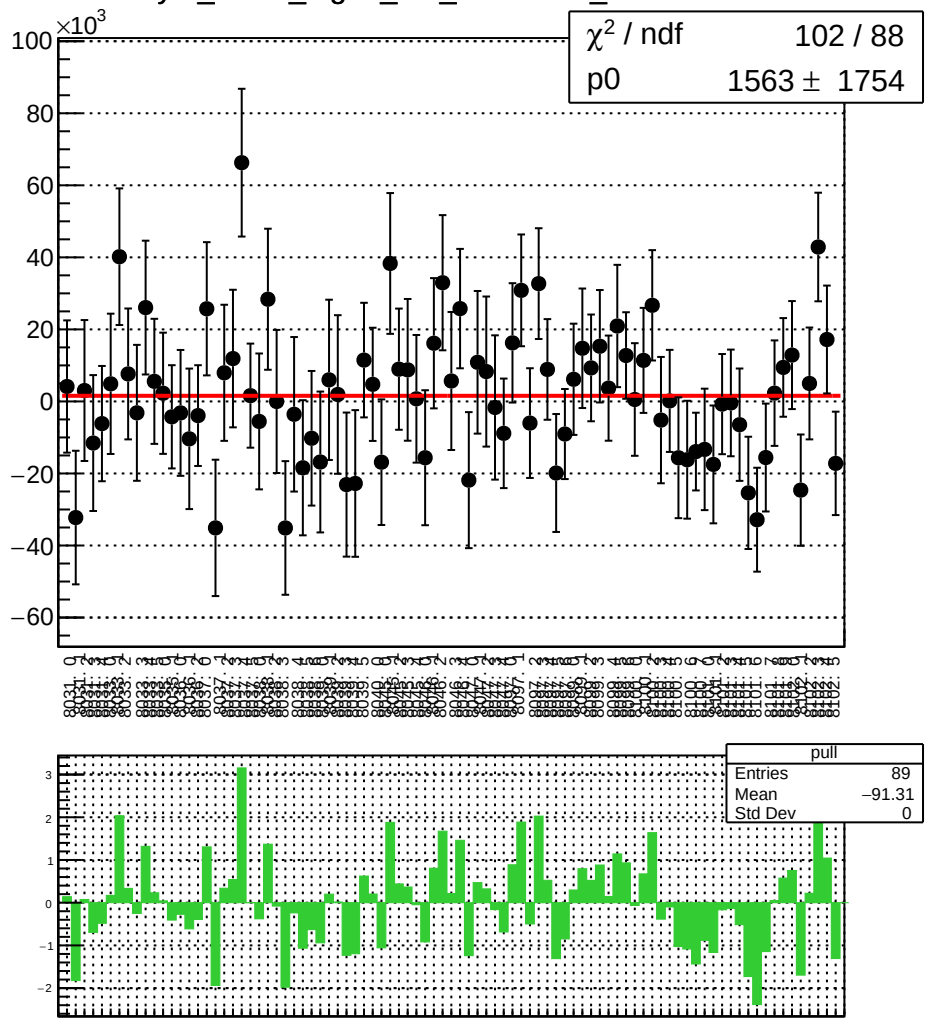

pull1D
Entries 89
Mean 0.00988
Std Dev 1.07

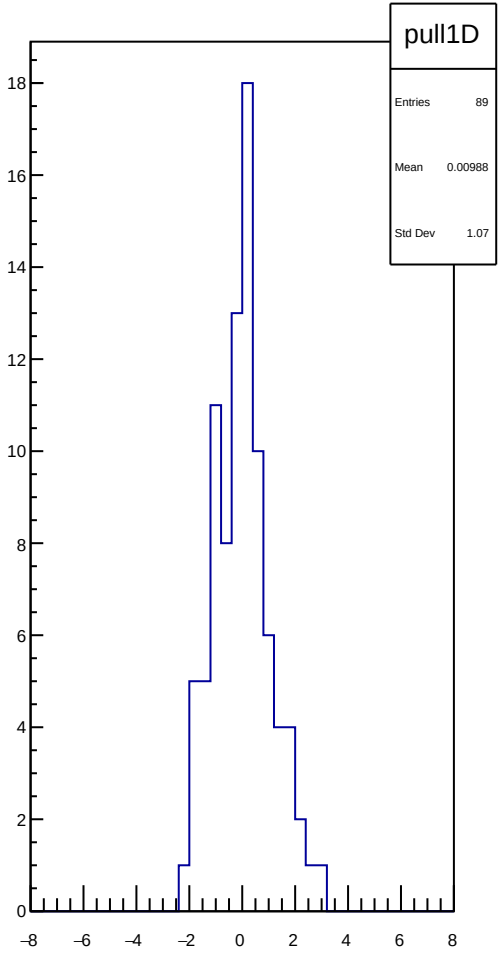

asym_sam6_cor_correction_rms vs run
χ² / ndf 2.935e+04 / 88
p0 1626 ± 1.24
2200
2000
1800
1600
1400

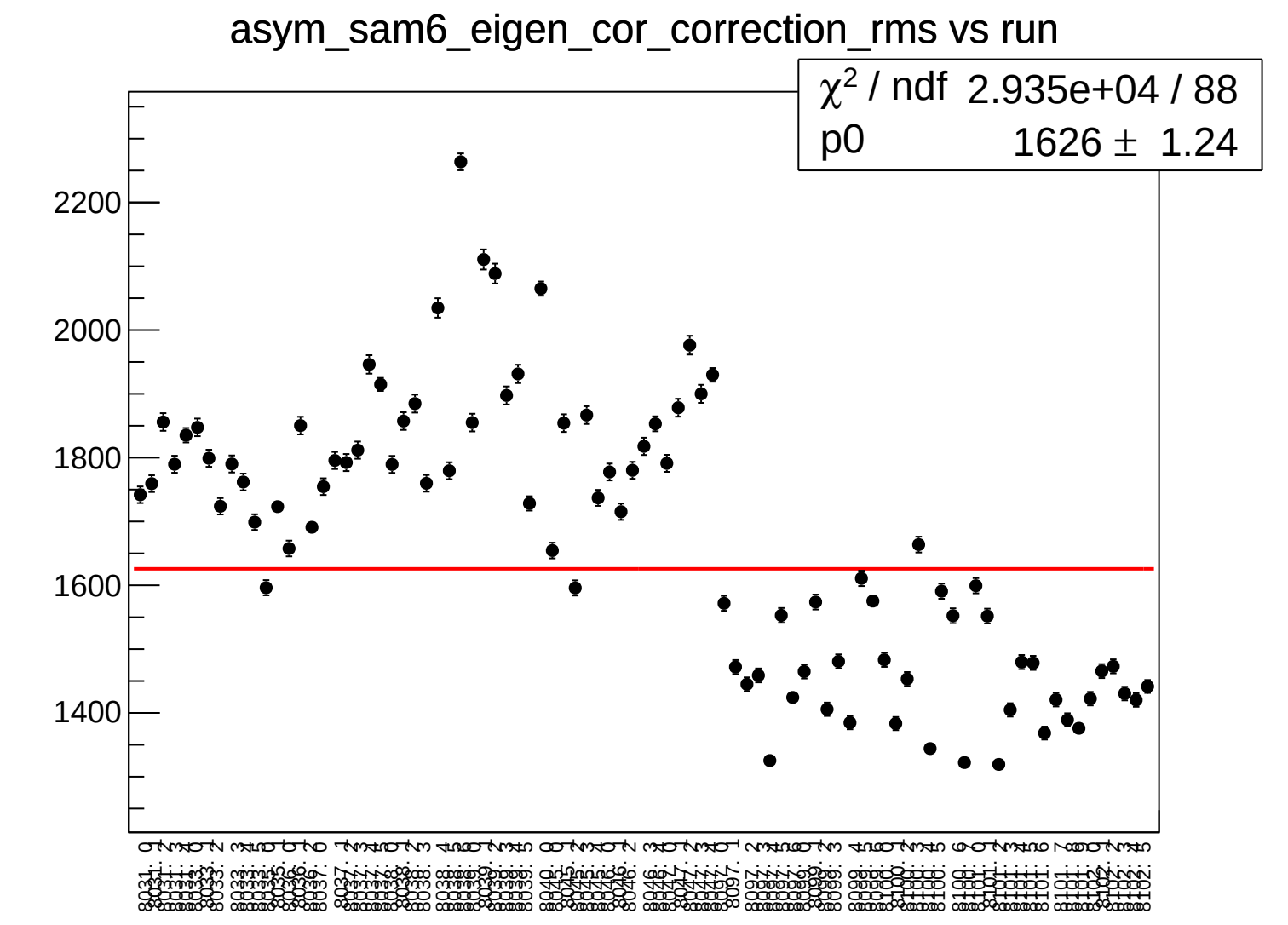

eigen_cor_asym_sam6_mean vs run
χ² / ndf 90.76 / 88
p0 −51.56 ± 163.3
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 188.4
Std Dev 0
2
1
0
−1
−2

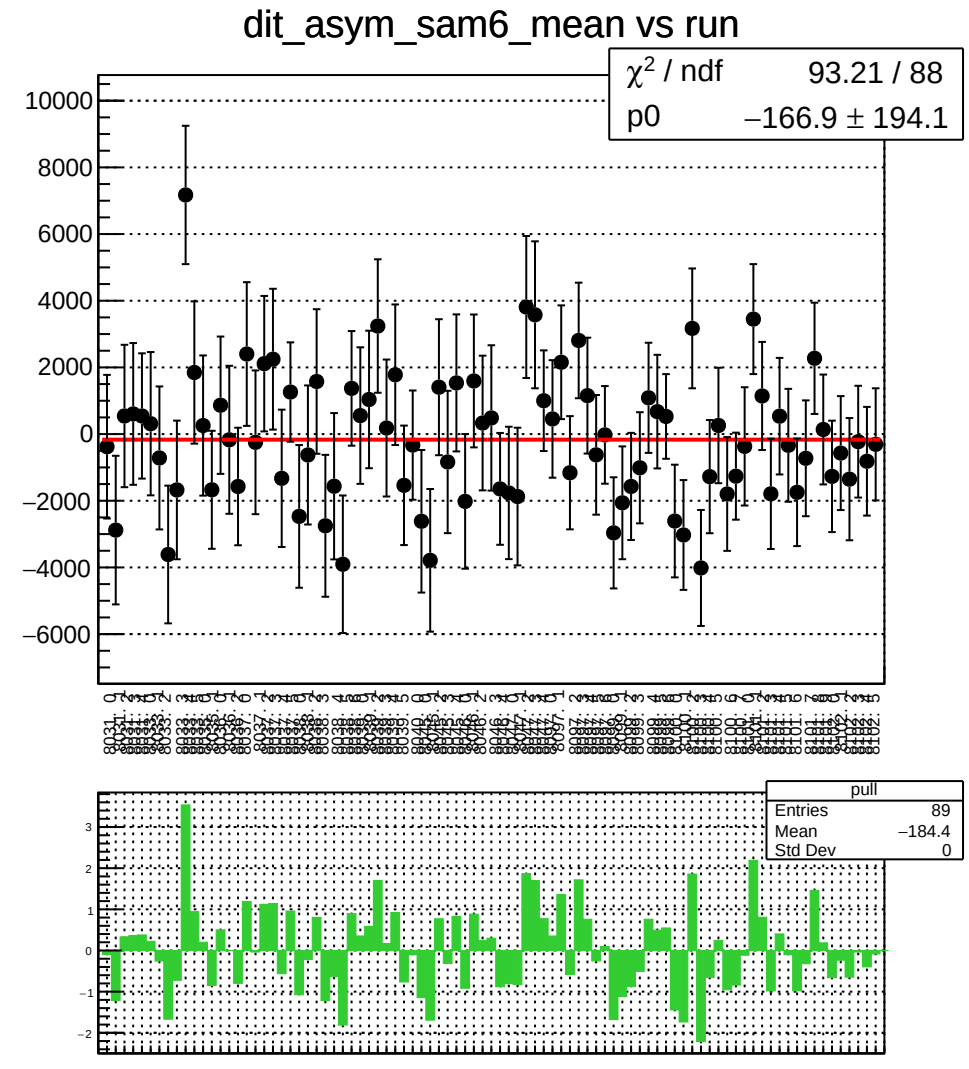

pull1D
Entries 89
Mean −0.002806
Std Dev 1.01
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

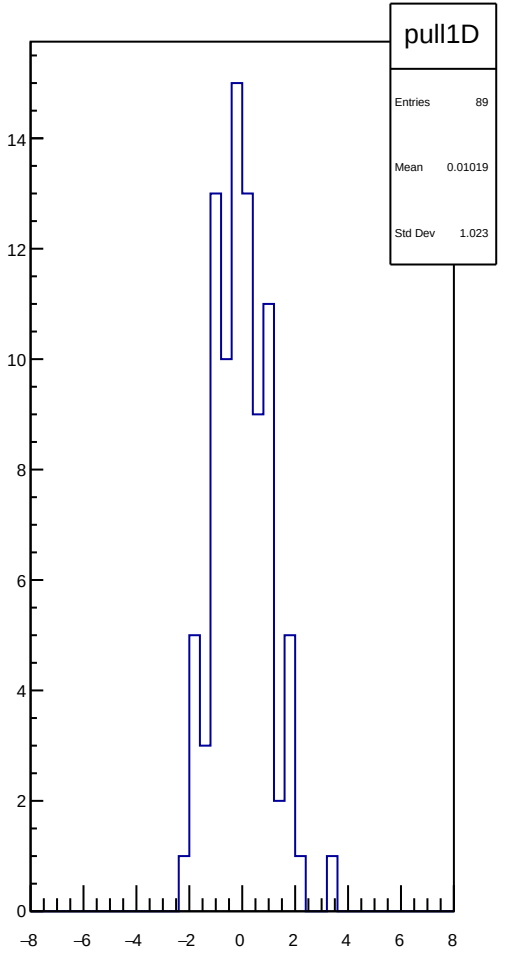

eigen_cor_asym_sam6_rms vs run
χ² / ndf 1.663e+04 / 88
p0 151.9 ± 0.1154
190
180
170
160
150
140
130

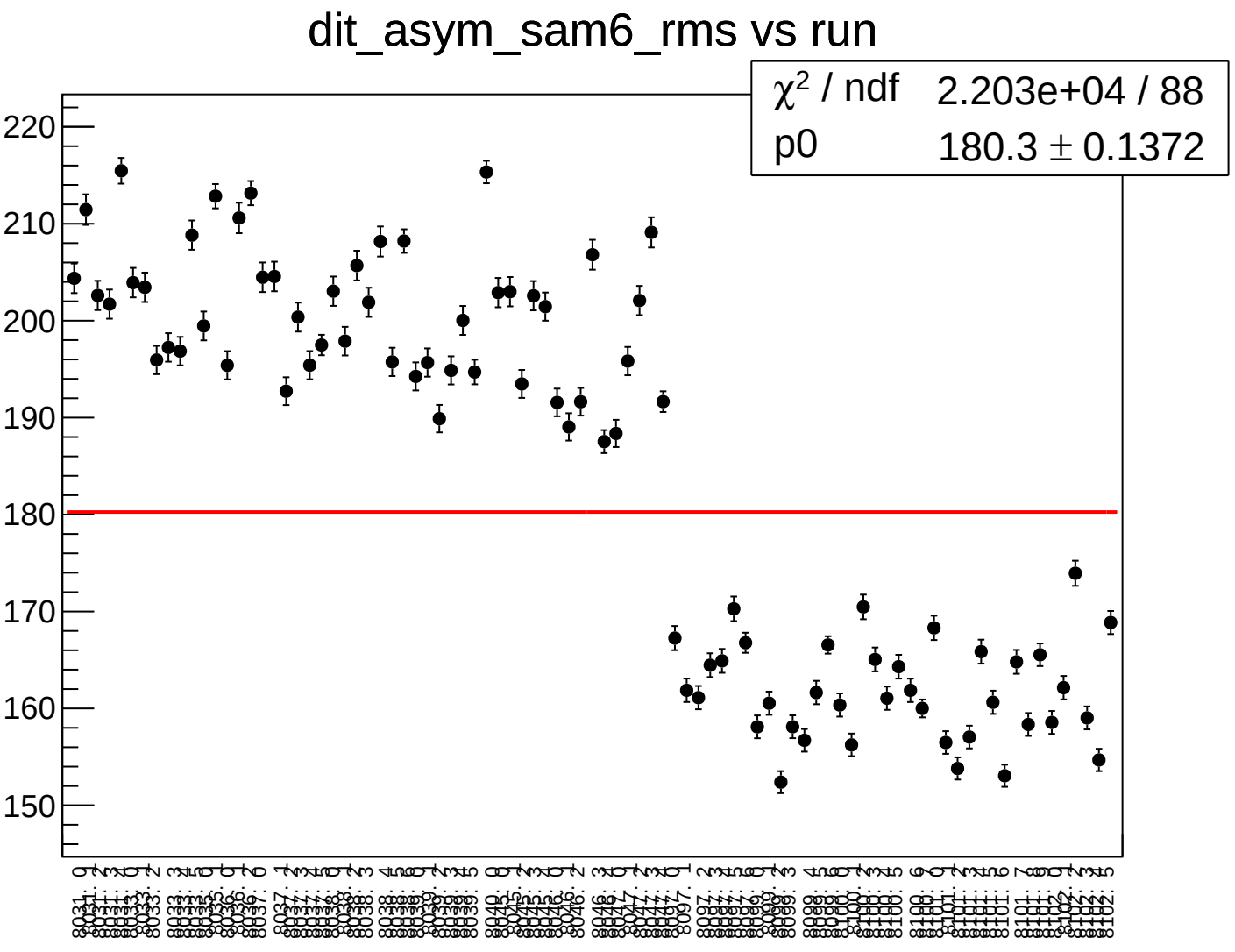

asym_sam6_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 102 / 88
p0 1563 ± 1754
pull
Entries 89
Mean −91.31
Std Dev 0

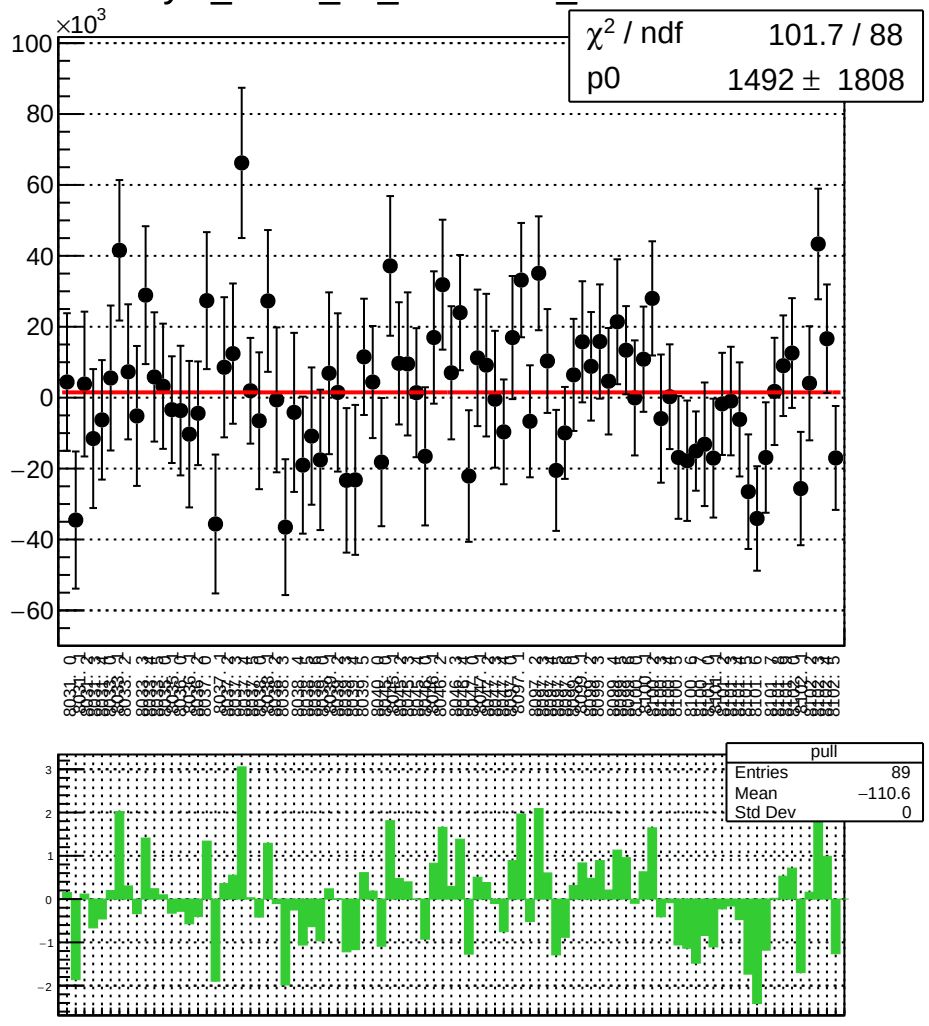

pull1D
Entries 89
Mean 0.00988
Std Dev 1.07

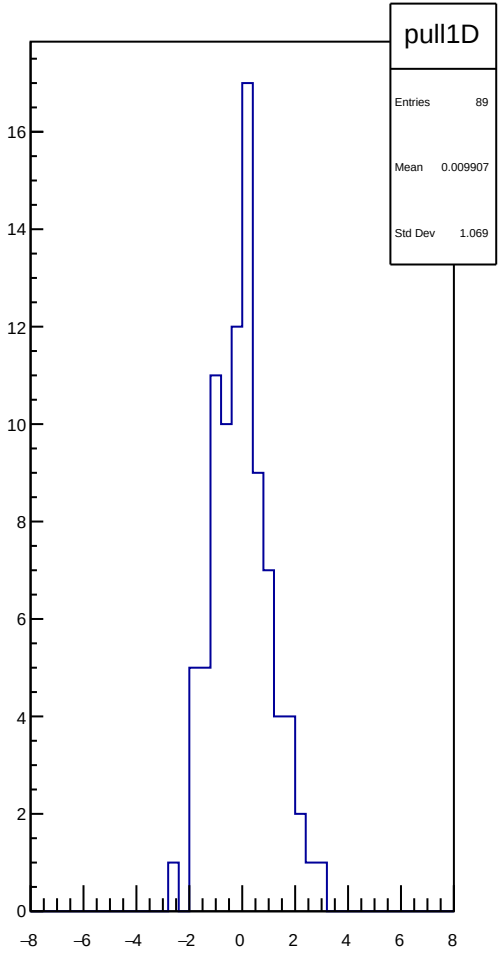

asym_sam6_eigen_cor_correction_rms vs run
χ² / ndf 2.935e+04 / 88
p0 1626 ± 1.24
2200
2000
1800
1600
1400

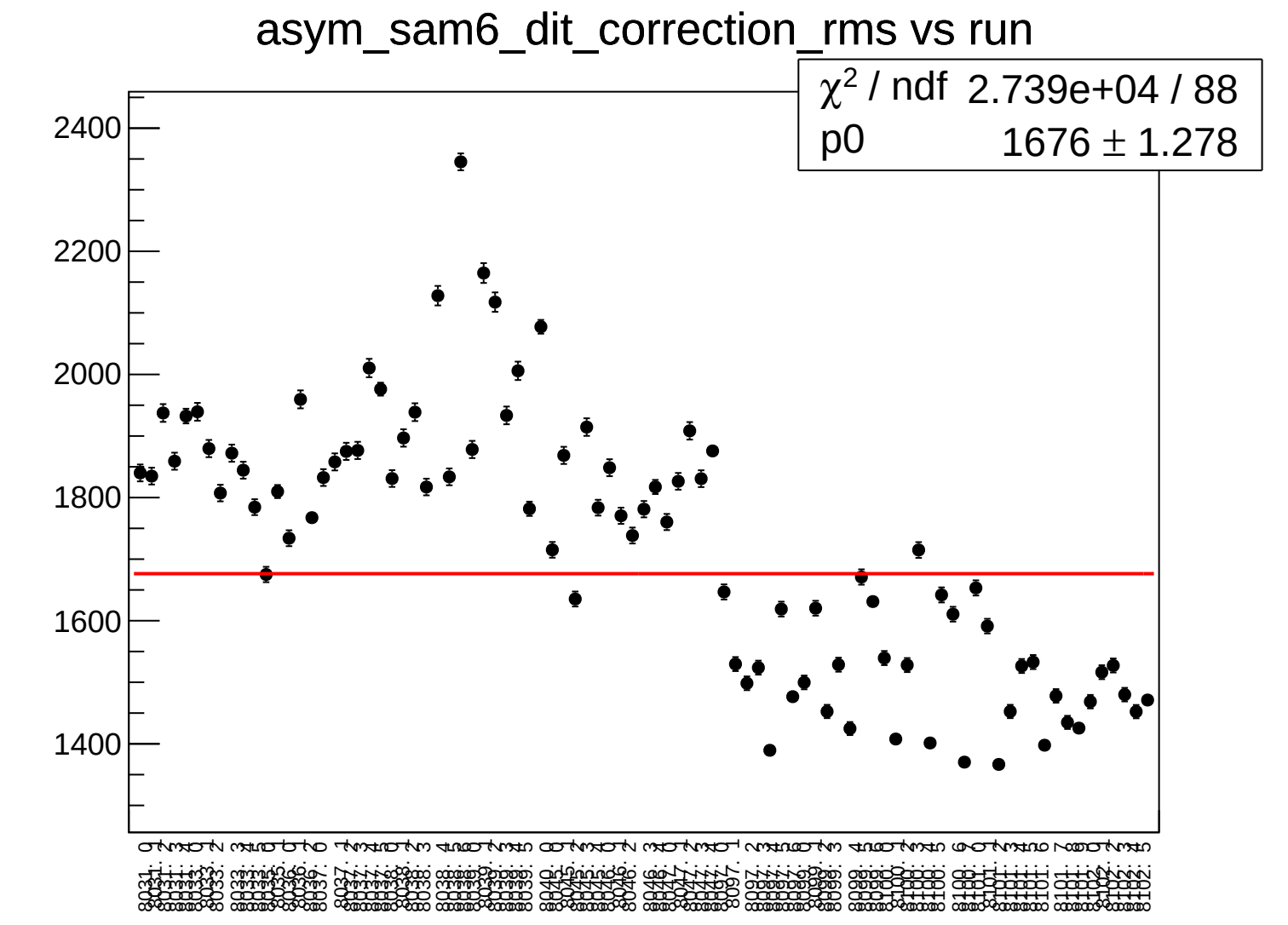

dit_asym_sam6_mean vs run
χ² / ndf 93.21 / 88
p0 −166.9 ± 194.1
pull
Entries 89
Mean −184.4
Std Dev 0

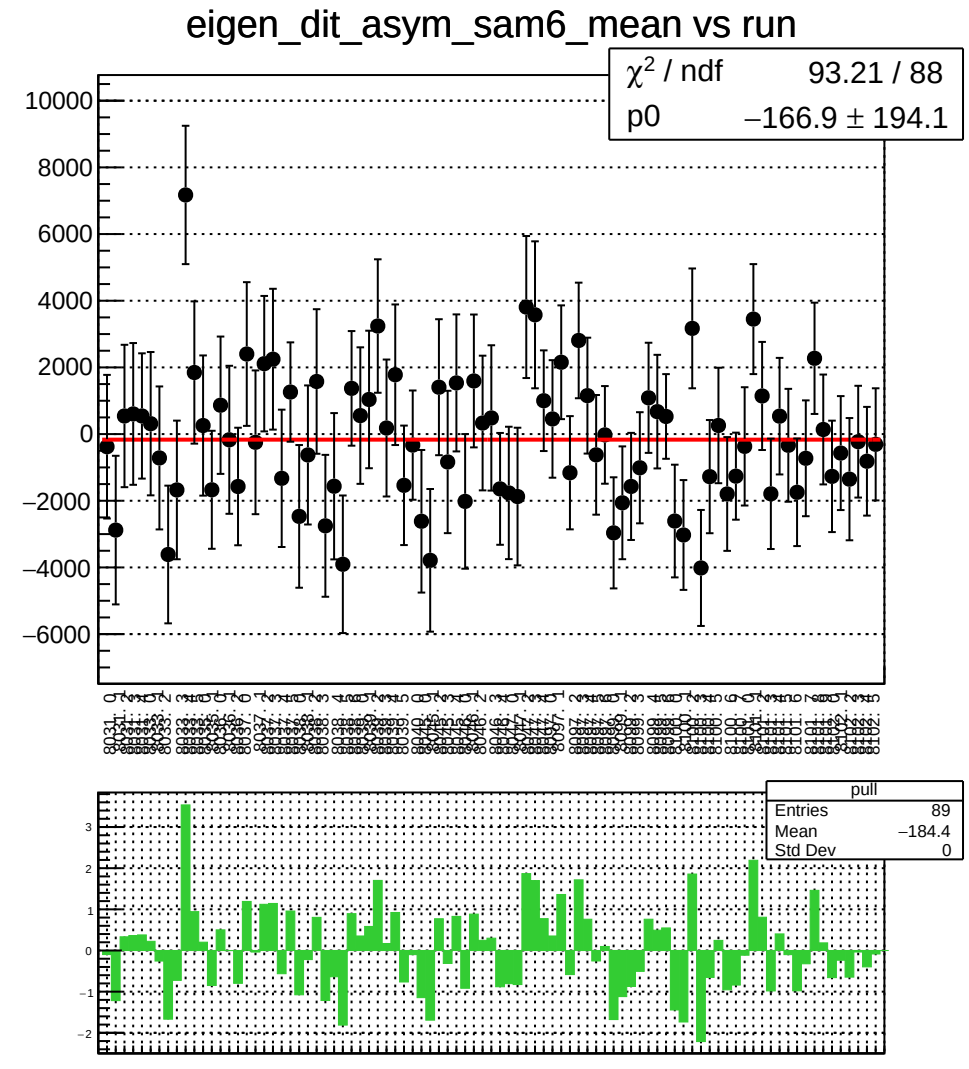

pull1D
Entries 89
Mean 0.01019
Std Dev 1.023

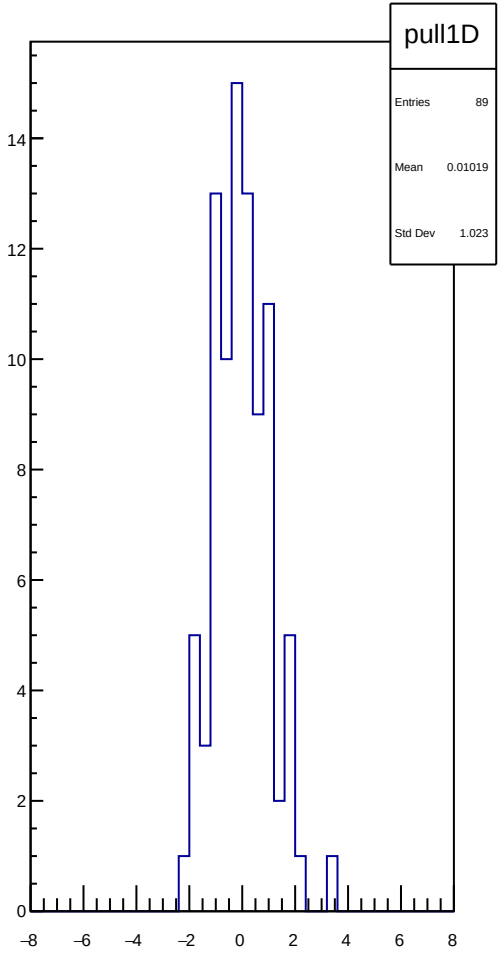

dit_asym_sam6_rms vs run
$\chi^2$ / ndf 2.203e+04 / 88
p0 180.3 ± 0.1372
220
210
200
190
180
170
160
150

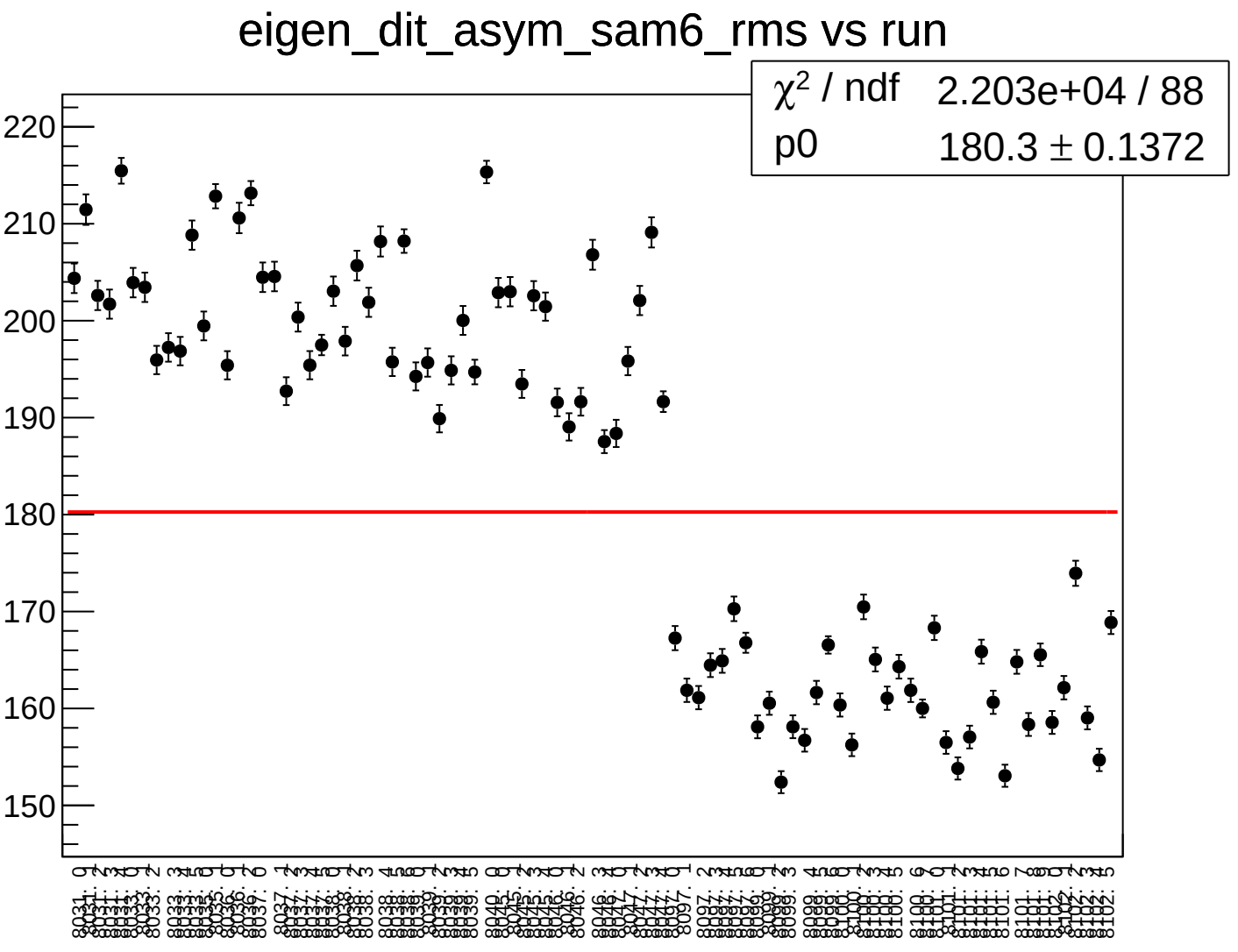

asym_sam6_dit_correction_mean vs run
×10^3
χ² / ndf 101.7 / 88
p0 1492 ± 1808
pull
Entries 89
Mean −110.6
Std Dev 0

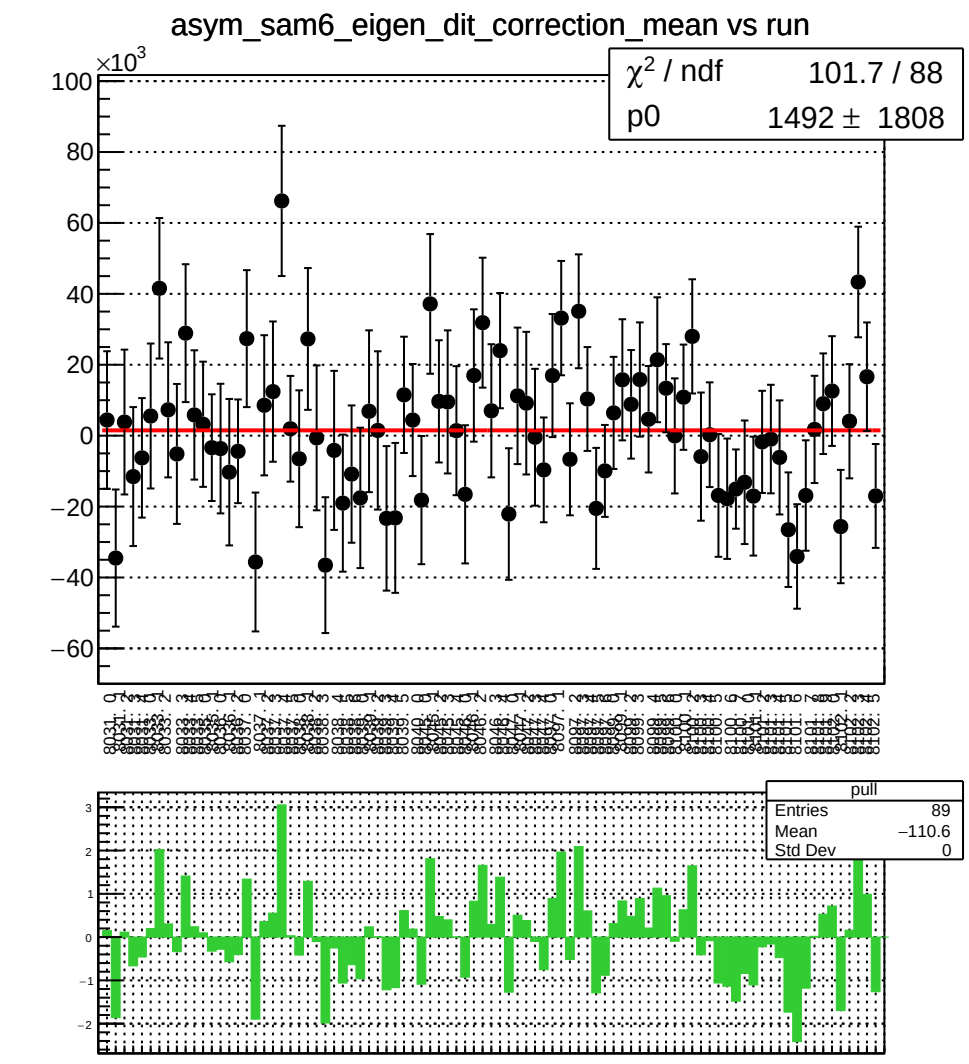

pull1D
Entries 89
Mean 0.009907
Std Dev 1.069

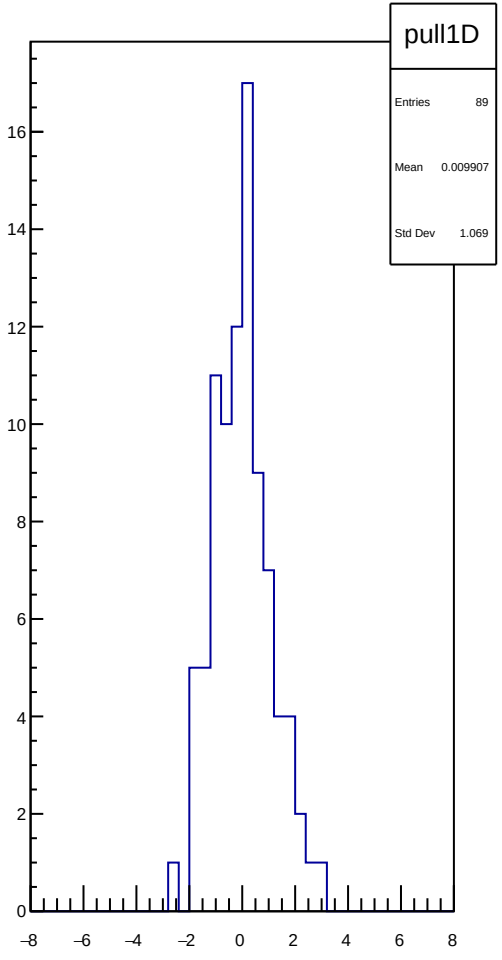

asym_sam6_dit_correction_rms vs run
χ² / ndf 2.739e+04 / 88
p0 1676 ± 1.278
2400
2200
2000
1800
1600
1400

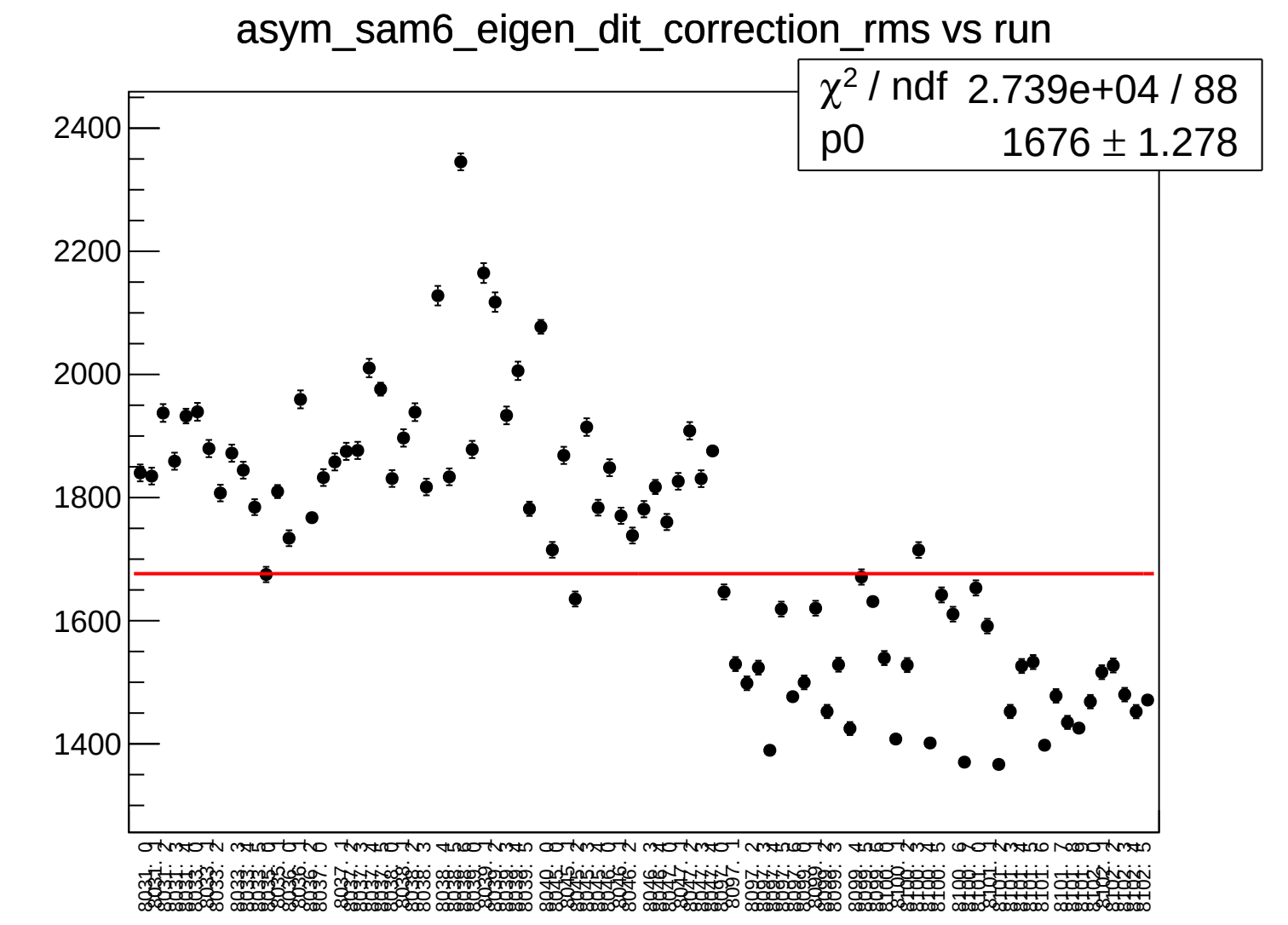

eigen_dit_asym_sam6_mean vs run
χ² / ndf 93.21 / 88
p0 −166.9 ± 194.1
pull
Entries 89
Mean −184.4
Std Dev 0

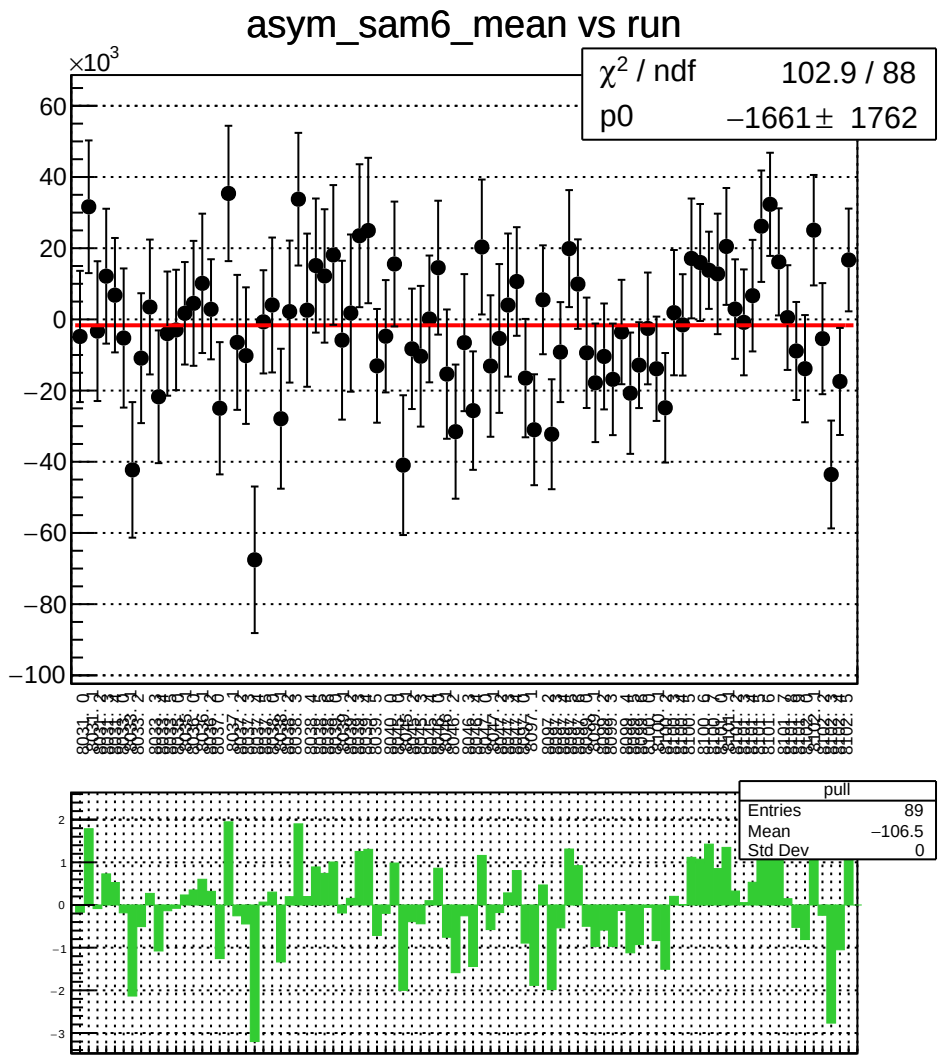

pull1D
Entries 89
Mean 0.01019
Std Dev 1.023

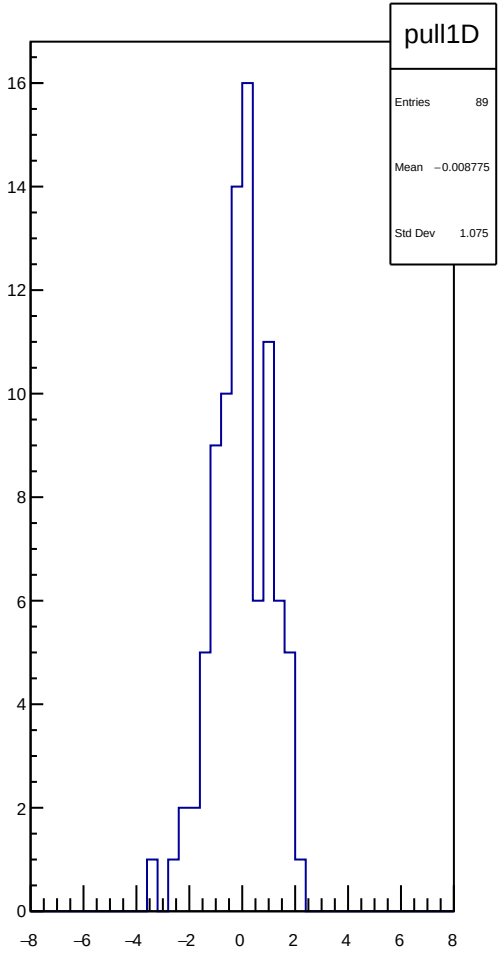

eigen_dit_asym_sam6_rms vs run
$\chi^2$ / ndf 2.203e+04 / 88
p0 180.3 ± 0.1372
220
210
200
190
180
170
160
150

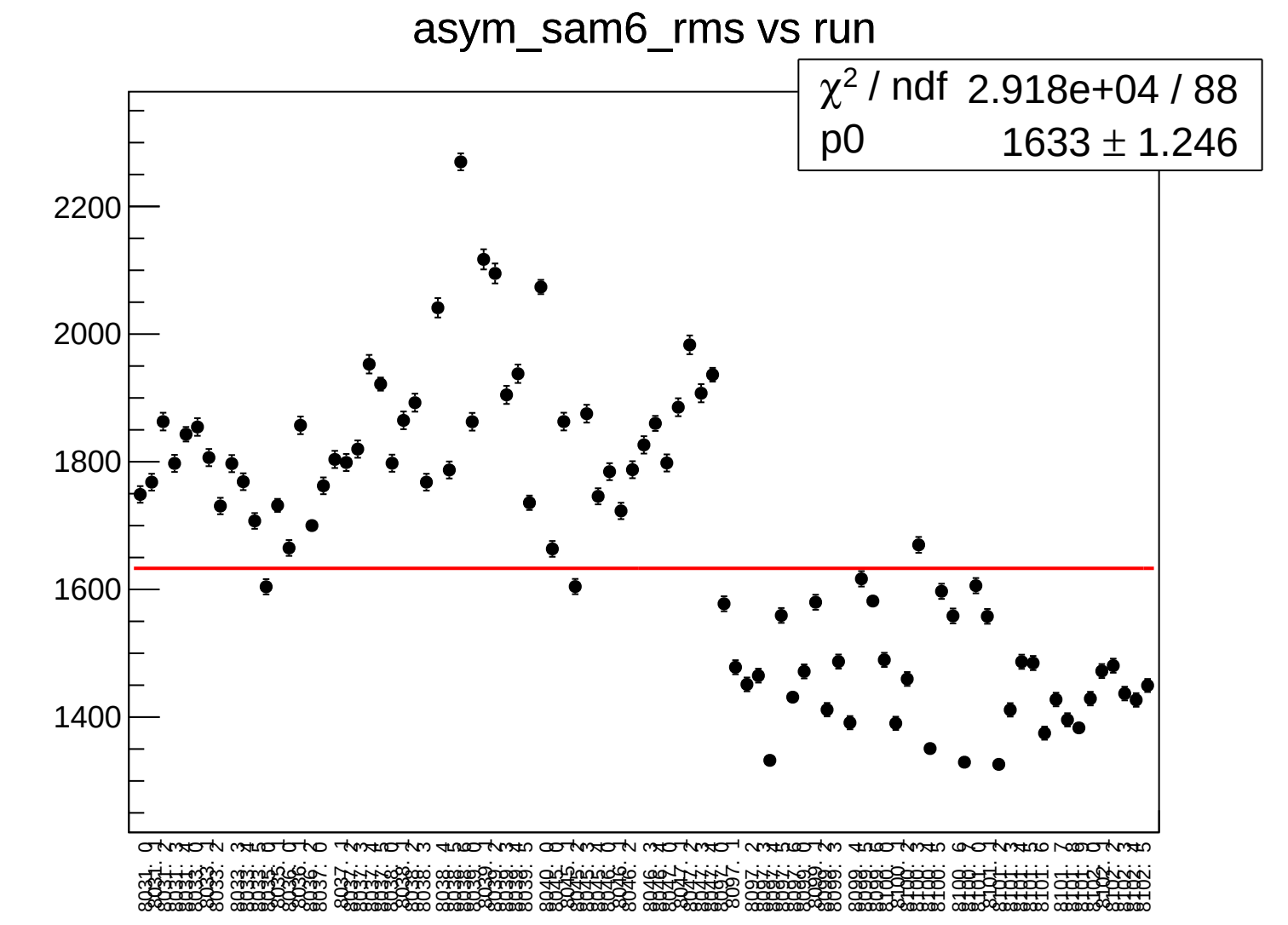

asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 101.7 / 88
p0 1492 ± 1808
×10³
pull
Entries 89
Mean −110.6
Std Dev 0

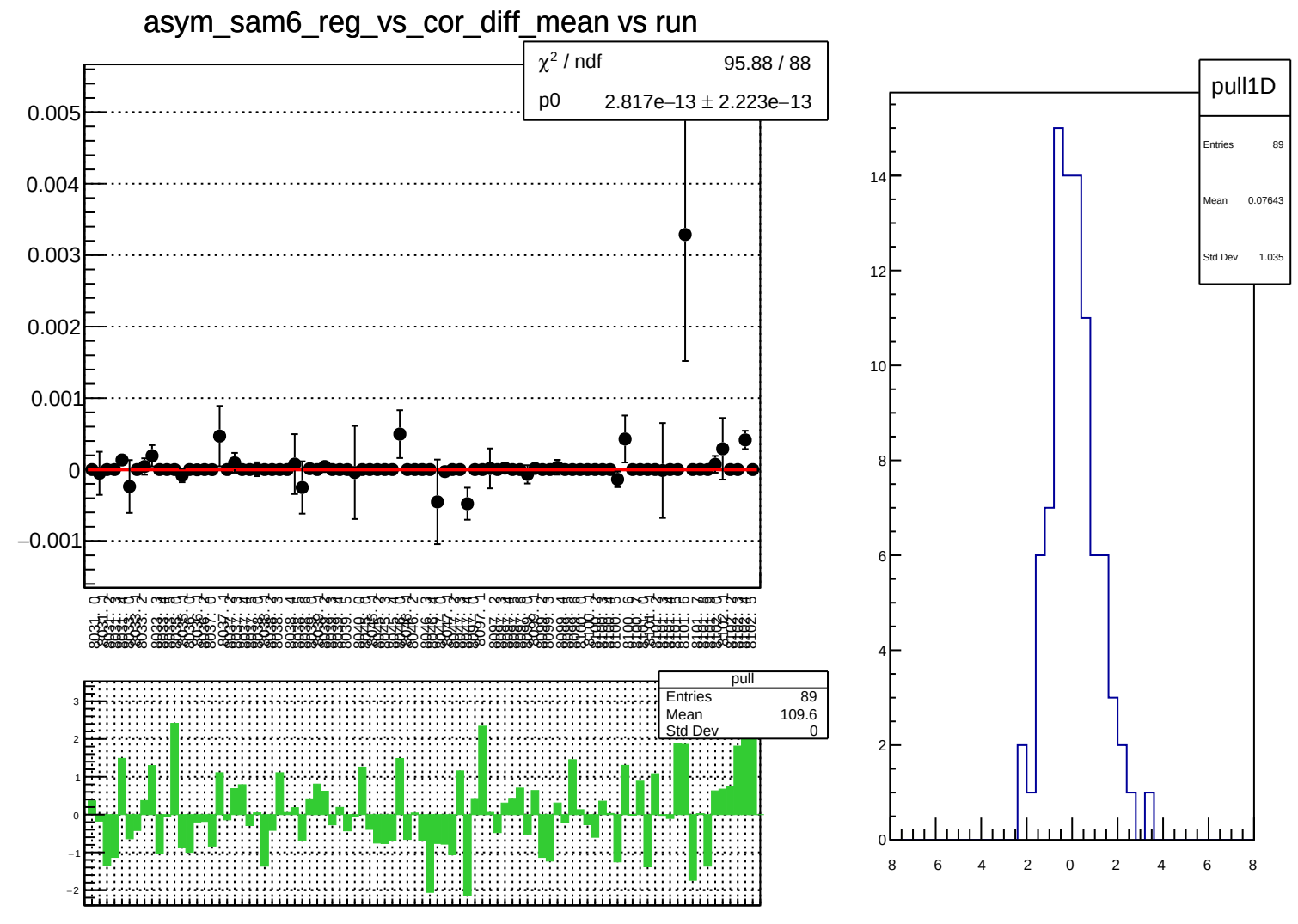

pull1D
Entries 89
Mean 0.009907
Std Dev 1.069

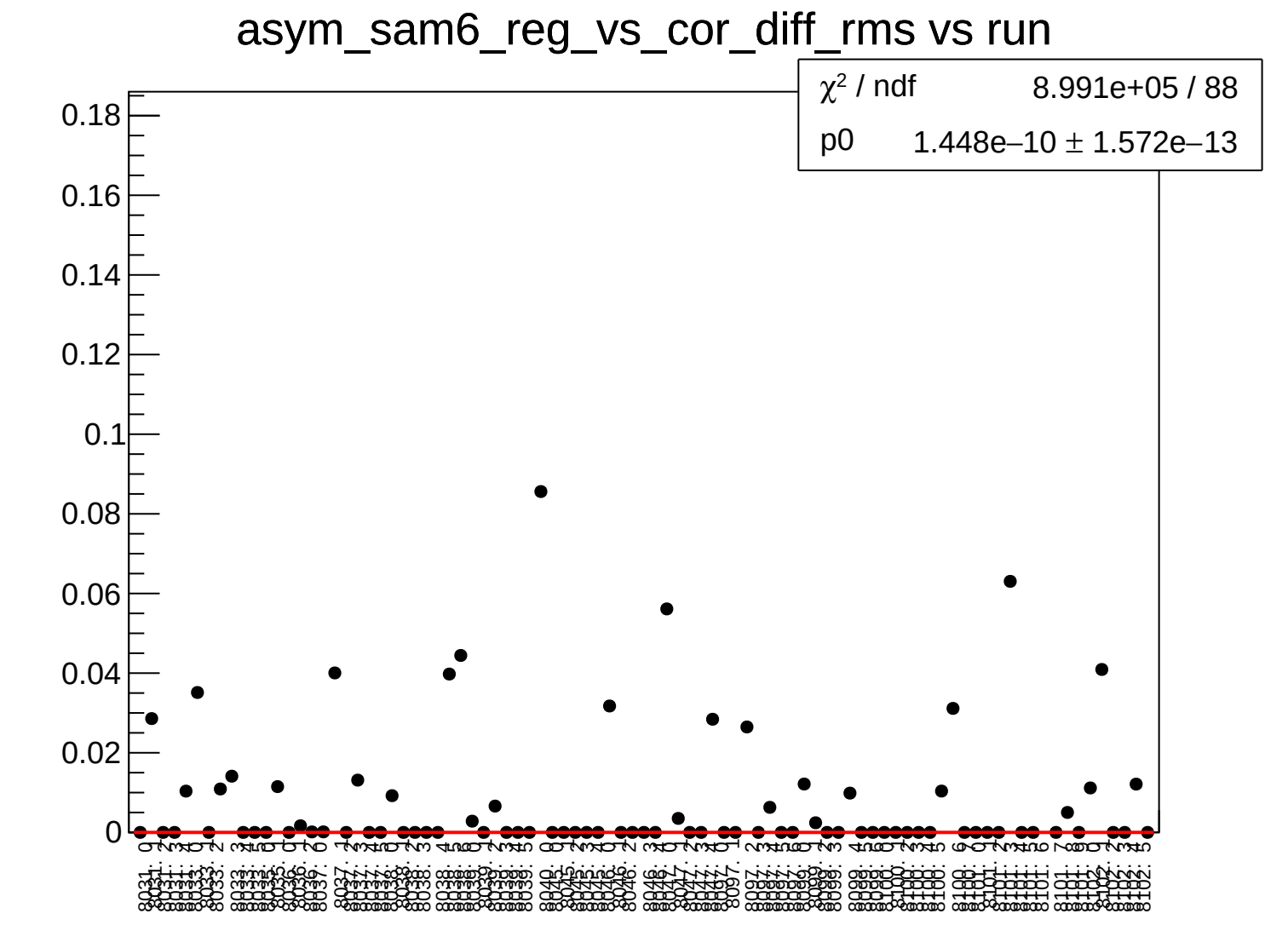

asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 2.739e+04 / 88
p0 1676 ± 1.278
2400
2200
2000
1800
1600
1400

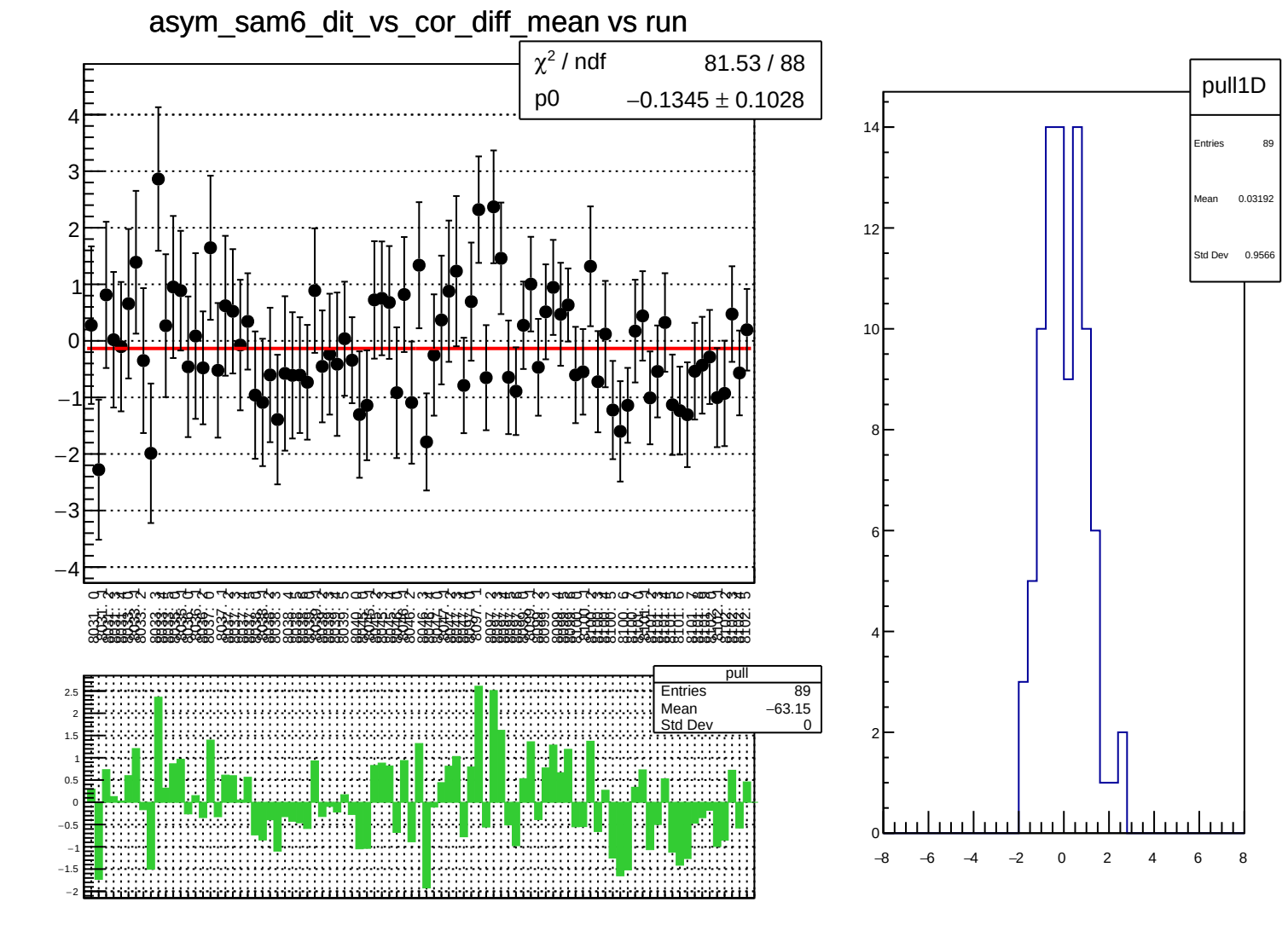

asym_sam6_mean vs run
×10^3
χ² / ndf 102.9 / 88
p0 −1661 ± 1762
pull
Entries 89
Mean −106.5
Std Dev 0

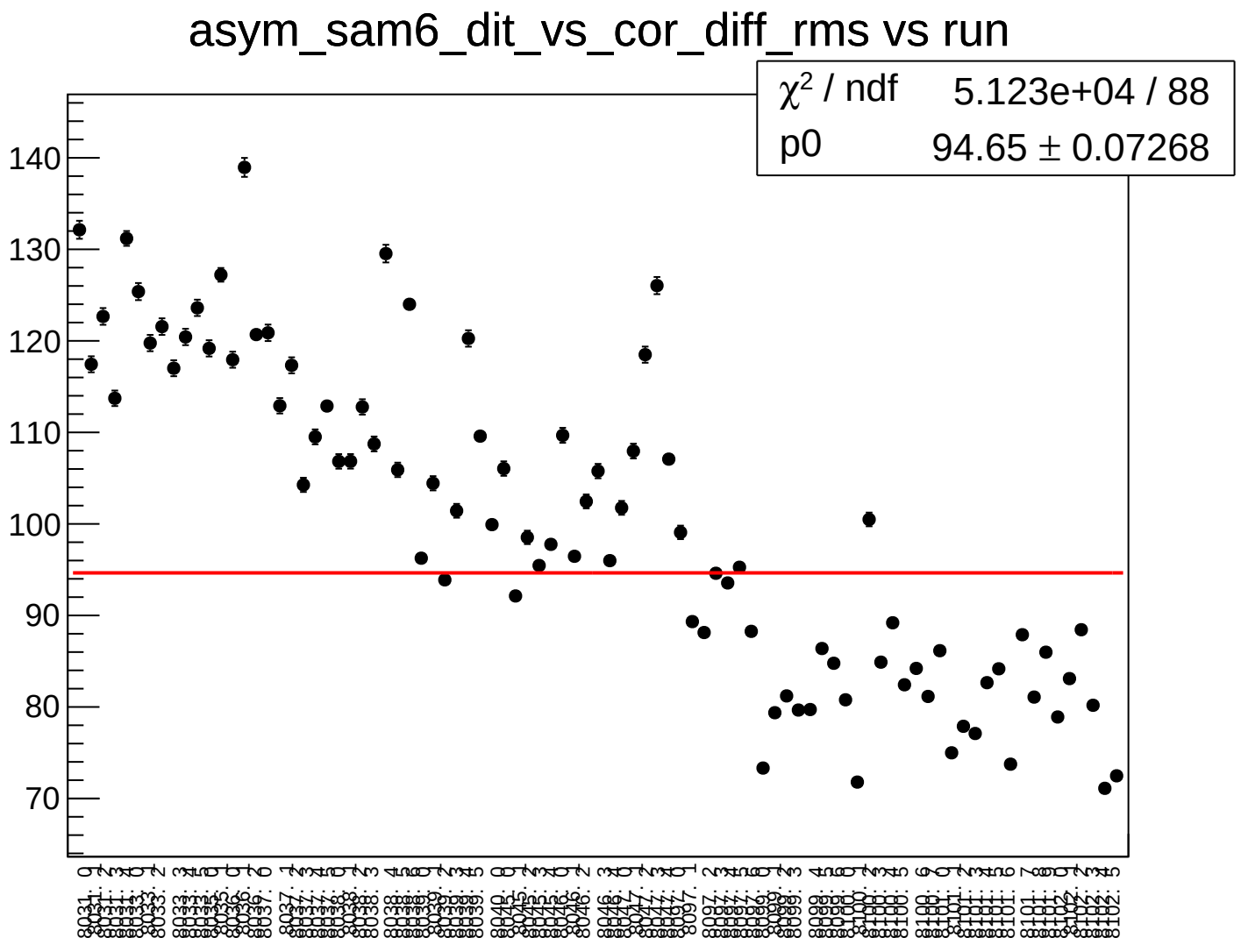

pull1D
Entries 89
Mean −0.008775
Std Dev 1.075

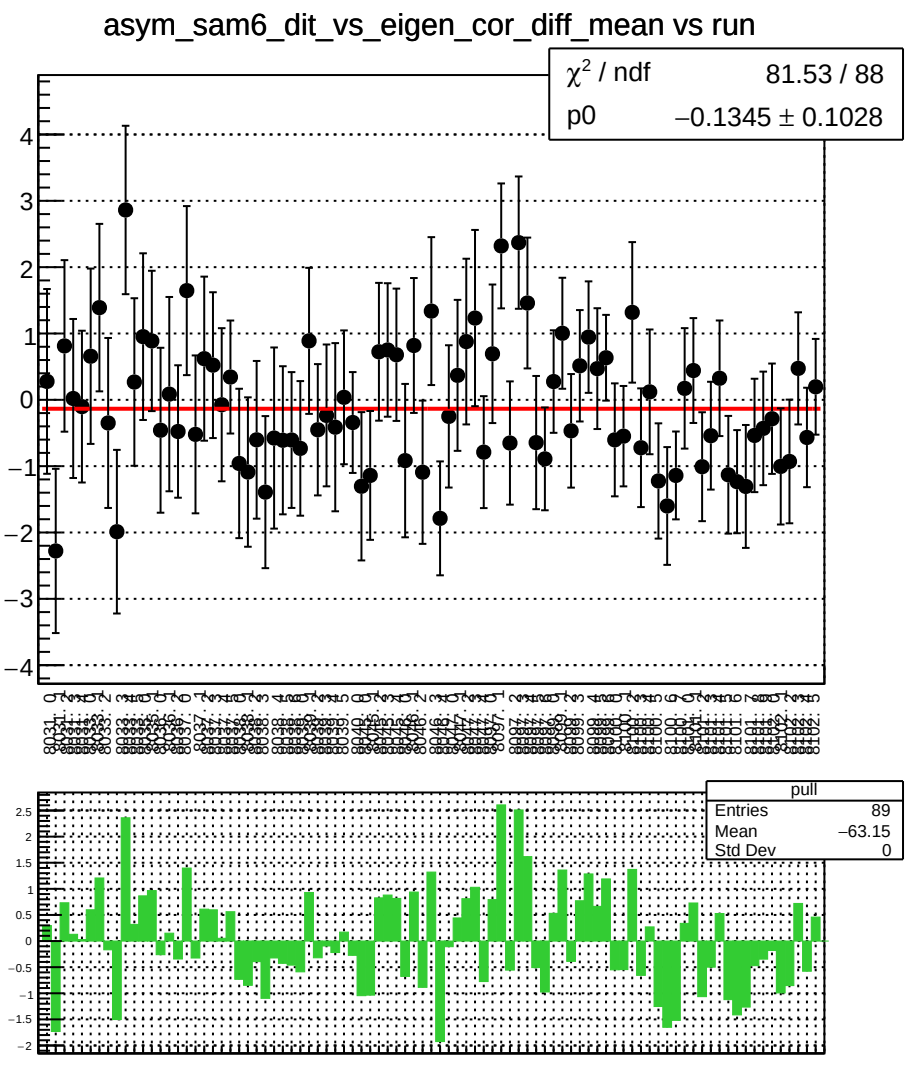

asym_sam6_rms vs run
χ² / ndf 2.918e+04 / 88
p0 1633 ± 1.246
2200
2000
1800
1600
1400

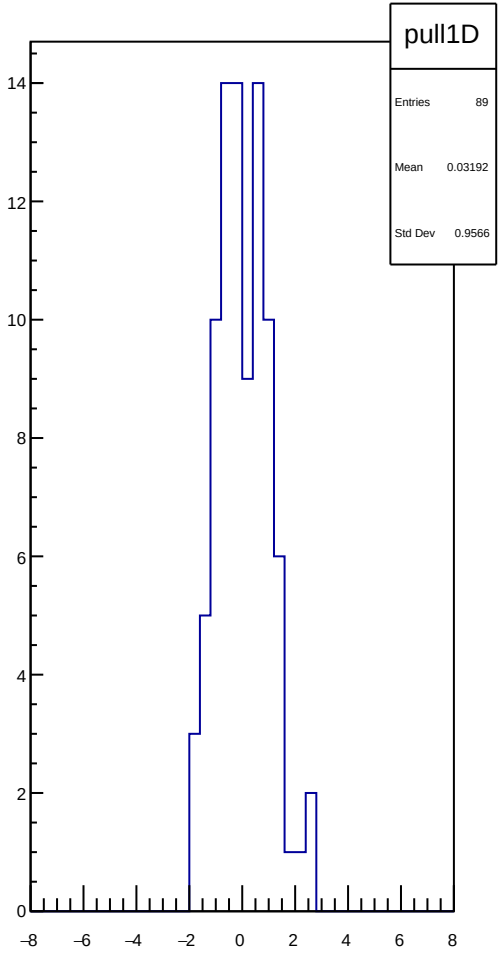

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 95.88 / 88
p0 2.817e−13 ± 2.223e−13
0.005
0.004
0.003
0.002
0.001
0
−0.001
pull
Entries 89
Mean 109.6
Std Dev 0
pull1D
Entries 89
Mean 0.07643
Std Dev 1.035

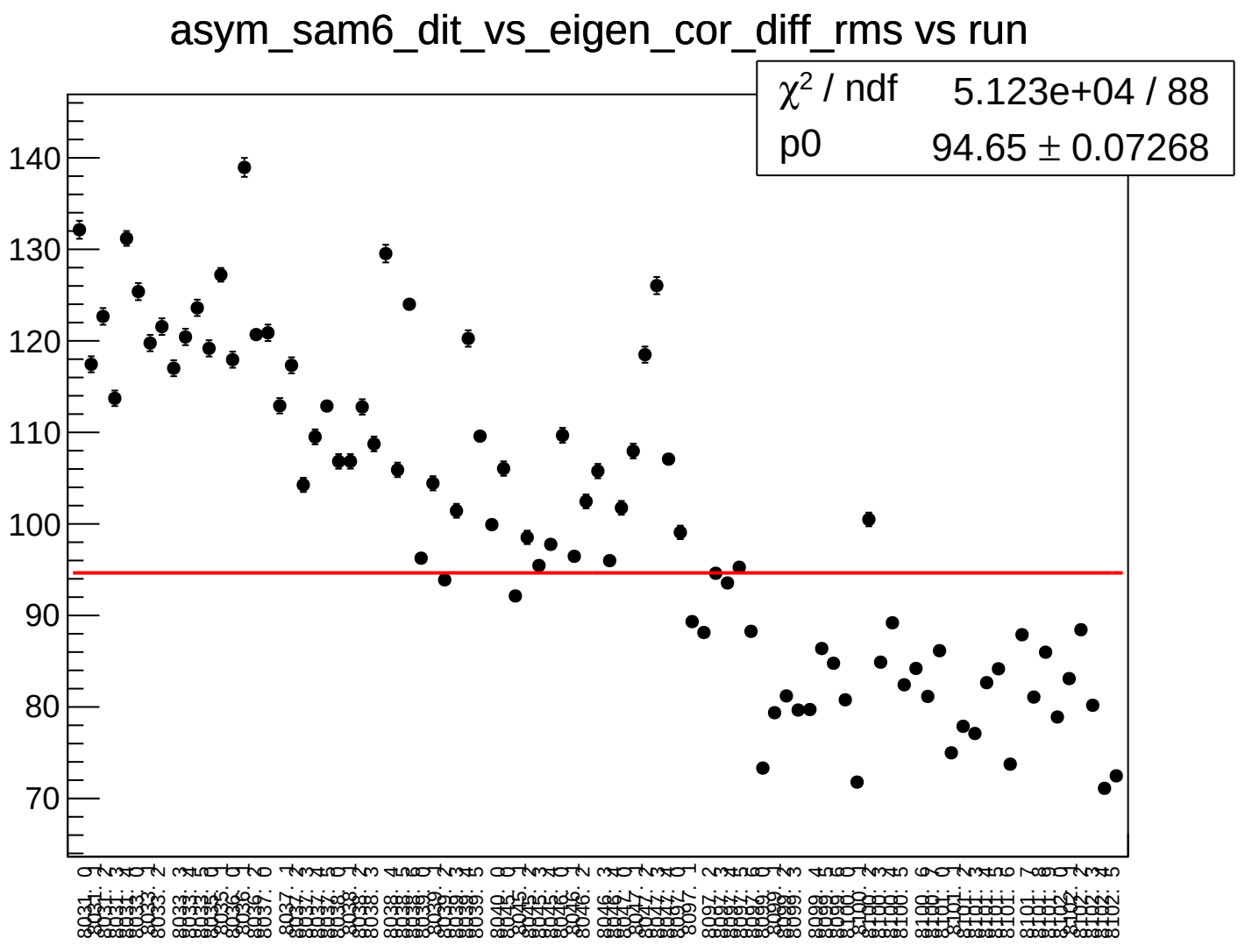

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 8.991e+05 / 88
p0 1.448e−10 ± 1.572e−13
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

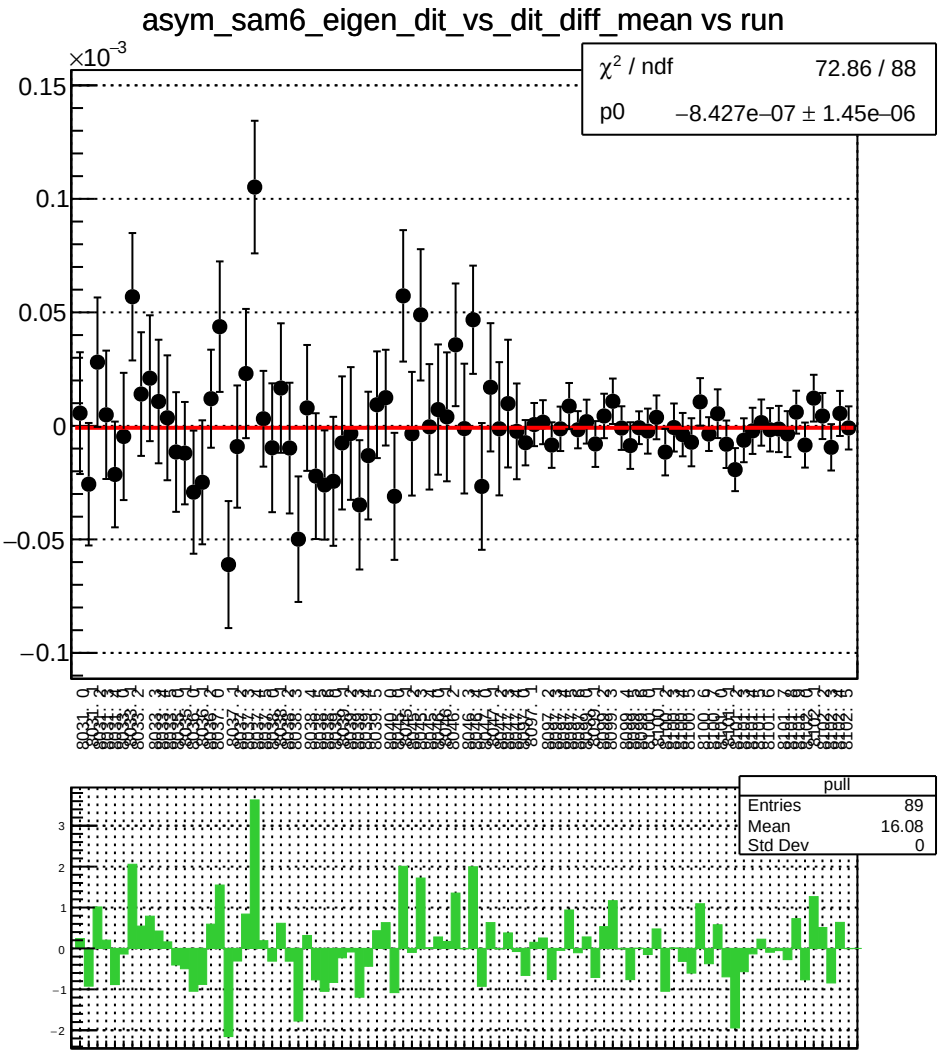

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 81.53 / 88
p0 −0.1345 ± 0.1028
pull
Entries 89
Mean −63.15
Std Dev 0
pull1D
Entries 89
Mean 0.03192
Std Dev 0.9566

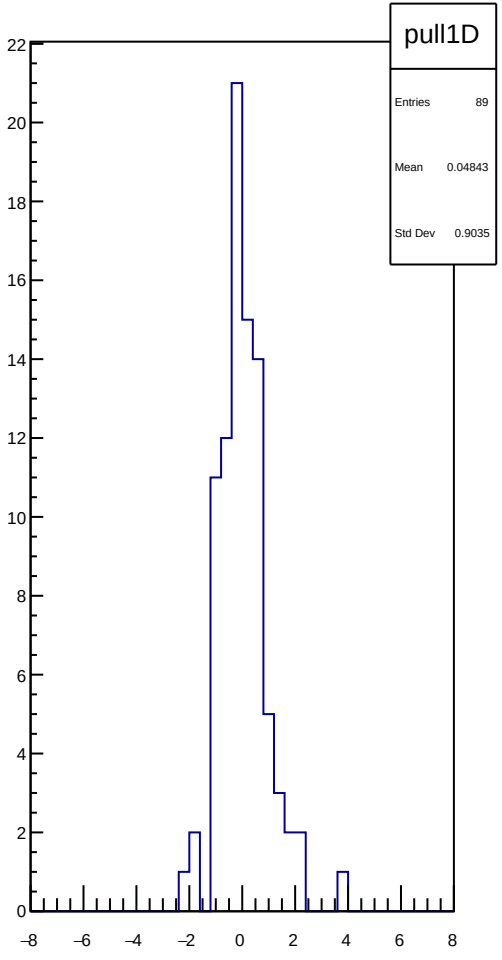

asym_sam6_dit_vs_cor_diff_rms vs run
χ² / ndf 5.123e+04 / 88
p0 94.65 ± 0.07268
140
130
120
110
100
90
80
70

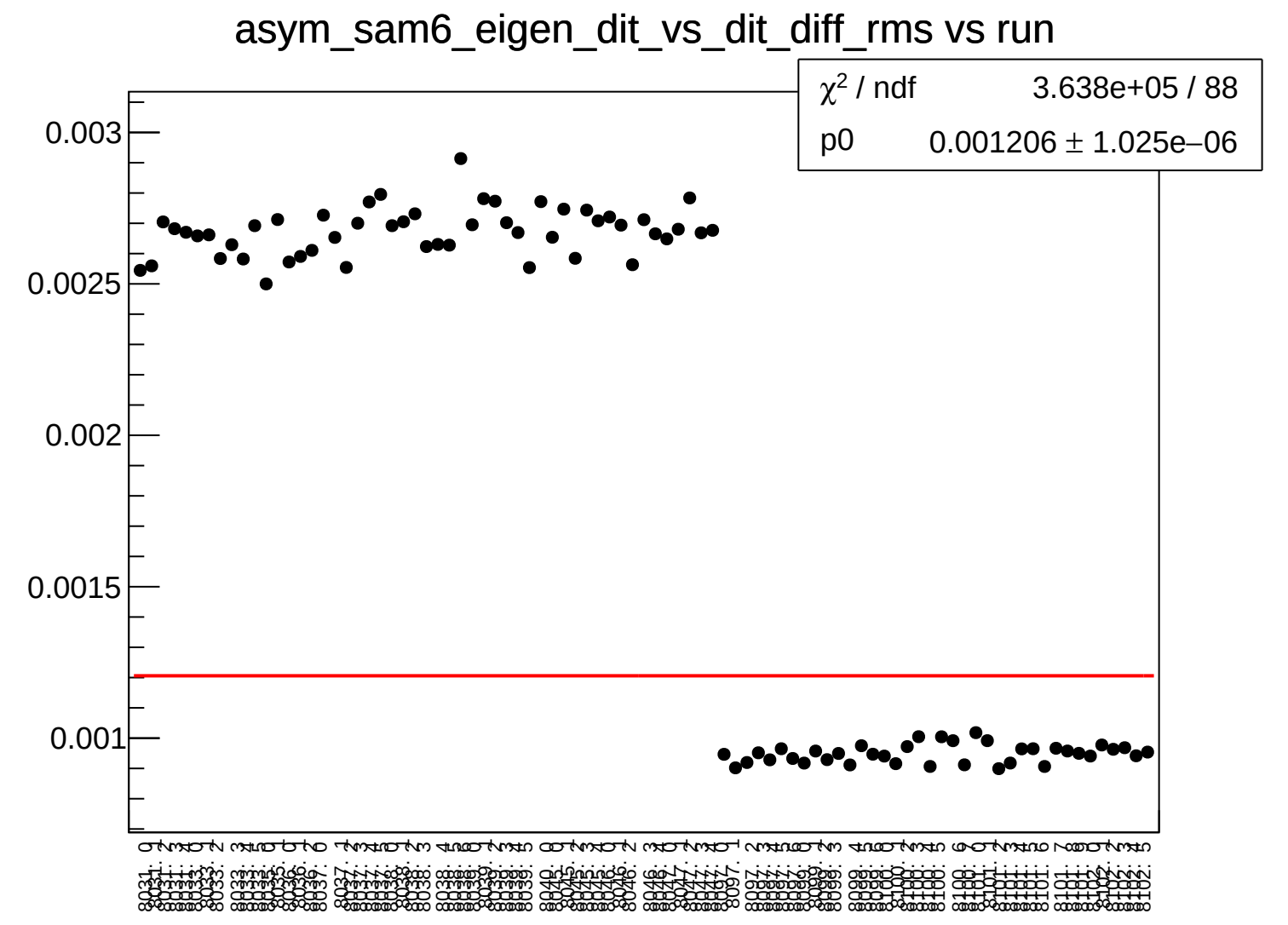

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.53 / 88
p0 −0.1345 ± 0.1028
pull
Entries 89
Mean −63.15
Std Dev 0

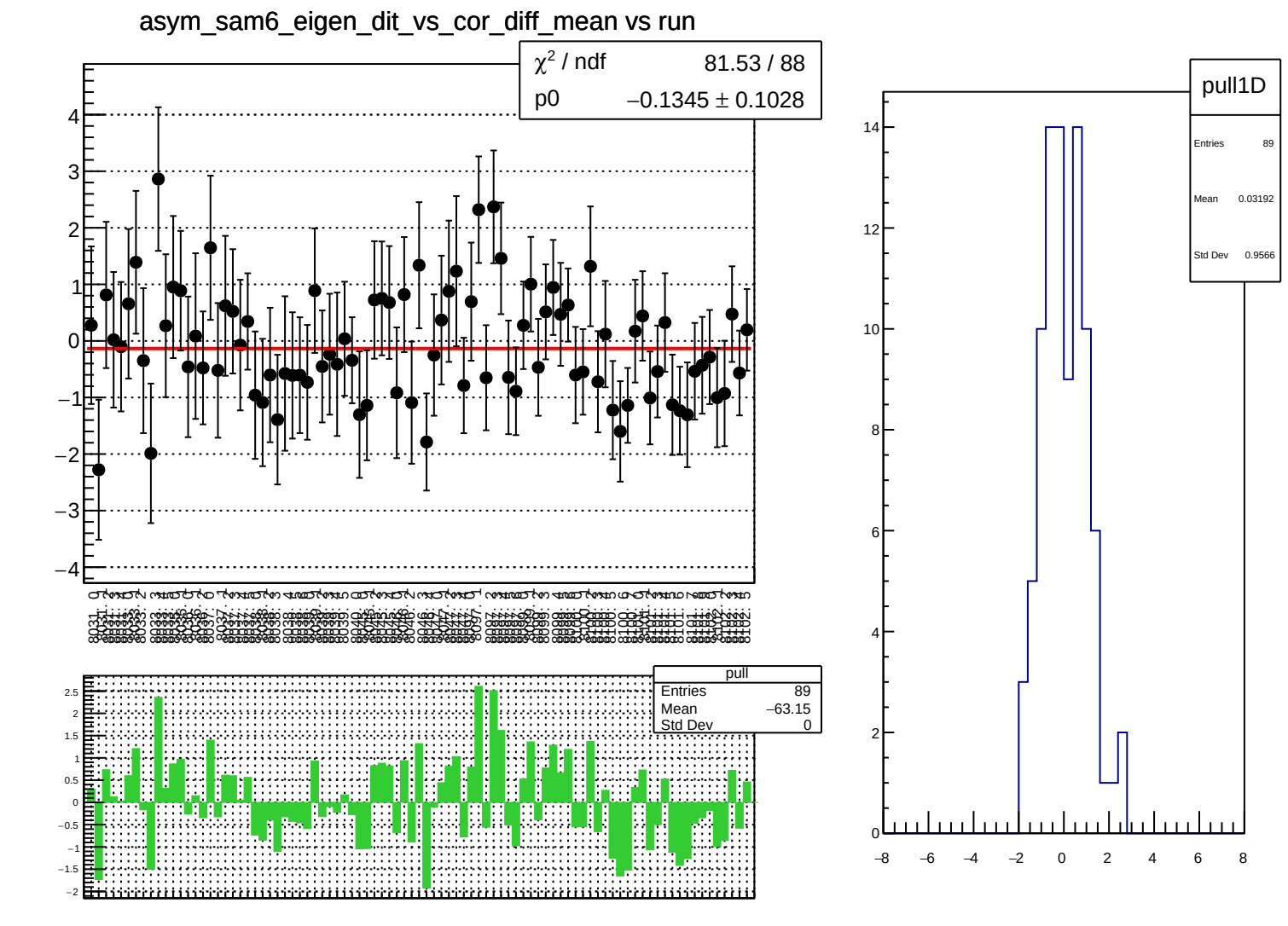

pull1D
Entries 89
Mean 0.03192
Std Dev 0.9566

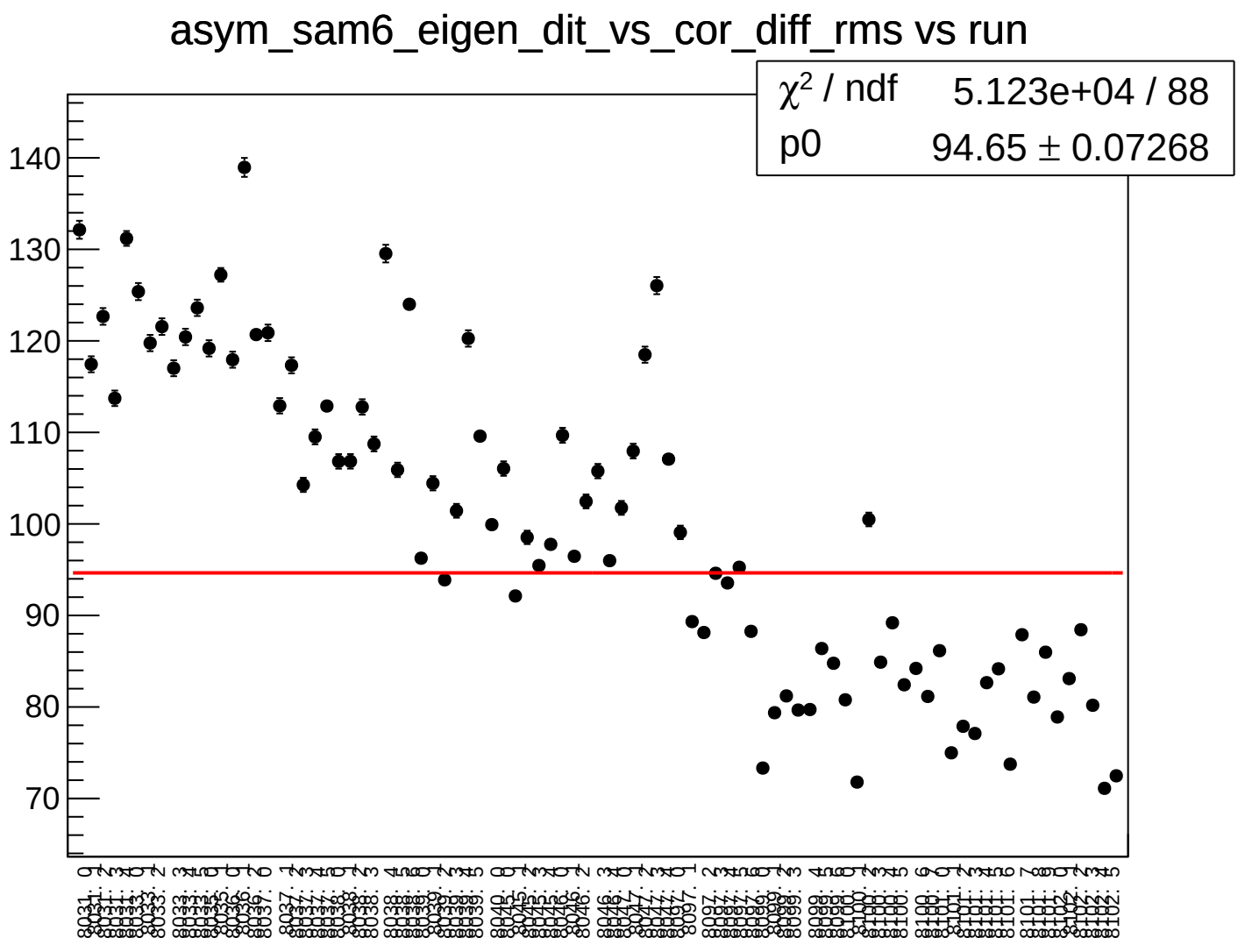

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.123e+04 / 88
p0 94.65 ± 0.07268
140
130
120
110
100
90
80
70

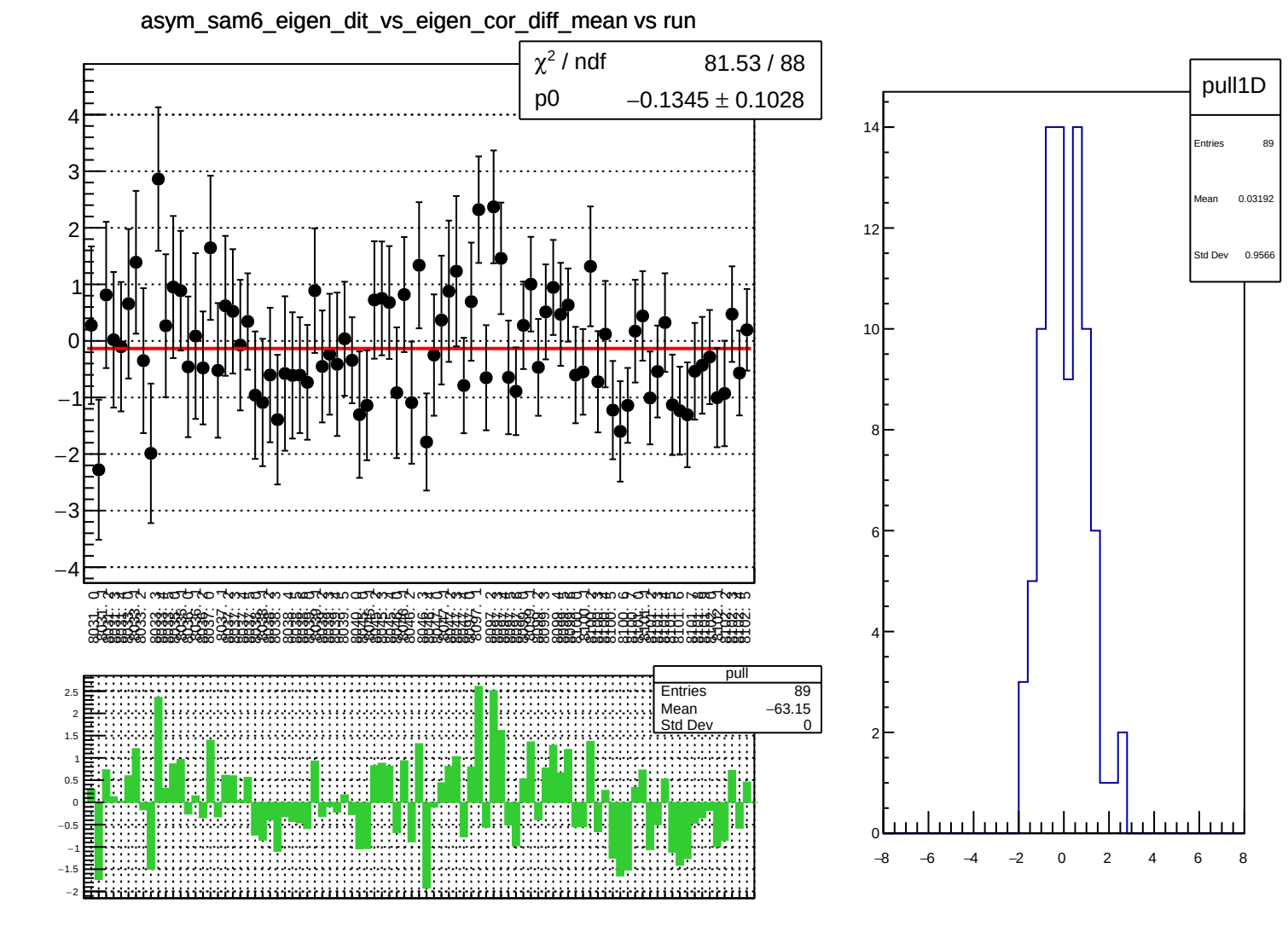

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.86 / 88
p0 −8.427e−07 ± 1.45e−06
pull
Entries 89
Mean 16.08
Std Dev 0

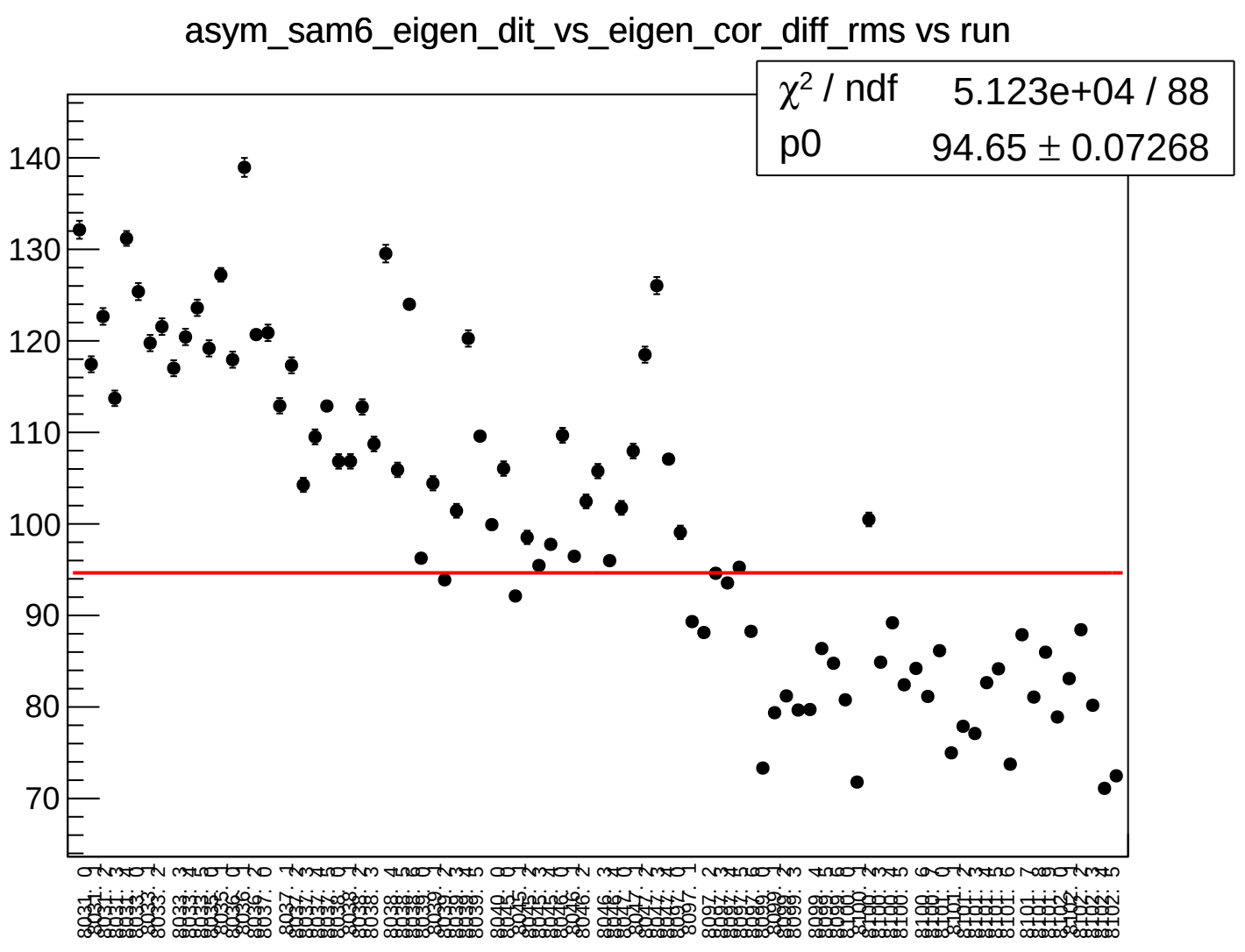

pull1D
Entries 89
Mean 0.04843
Std Dev 0.9035

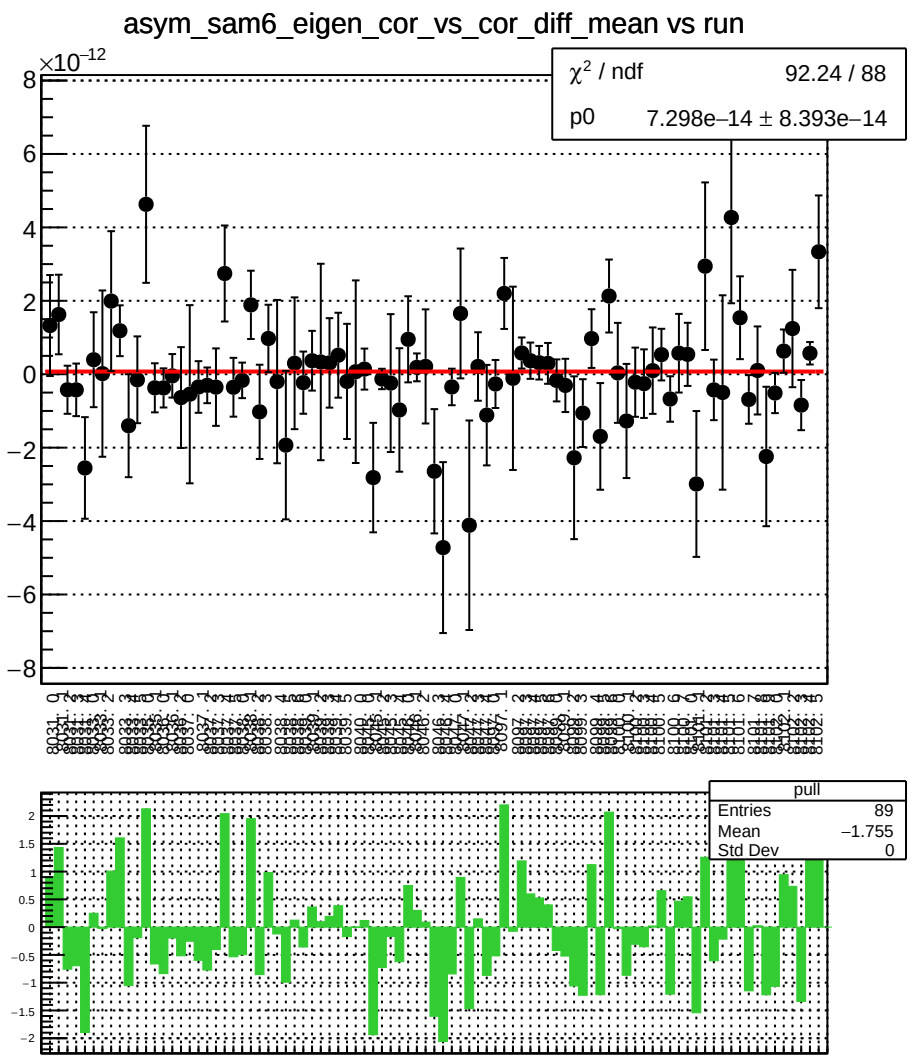

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.638e+05 / 88
p0 0.001206 ± 1.025e−06
0.003
0.0025
0.002
0.0015
0.001

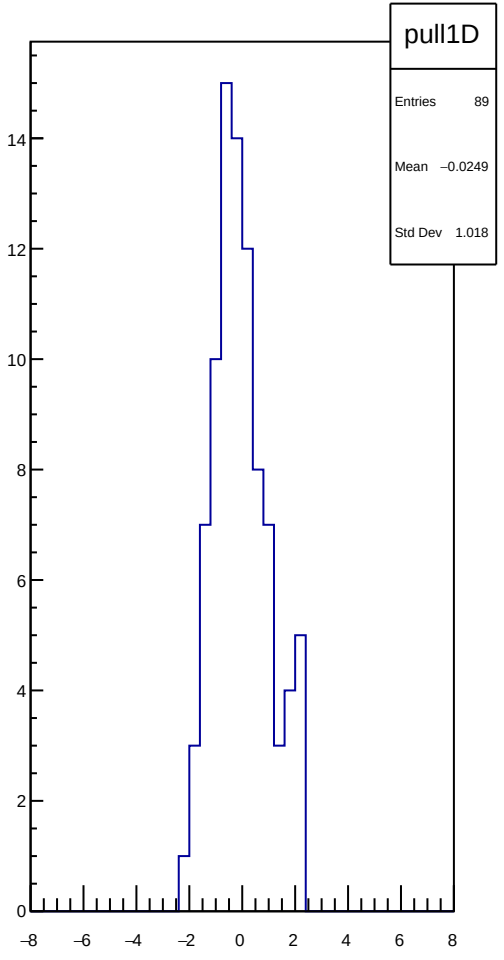

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.53 / 88
p0 −0.1345 ± 0.1028
pull
Entries 89
Mean −63.15
Std Dev 0
pull1D
Entries 89
Mean 0.03192
Std Dev 0.9566

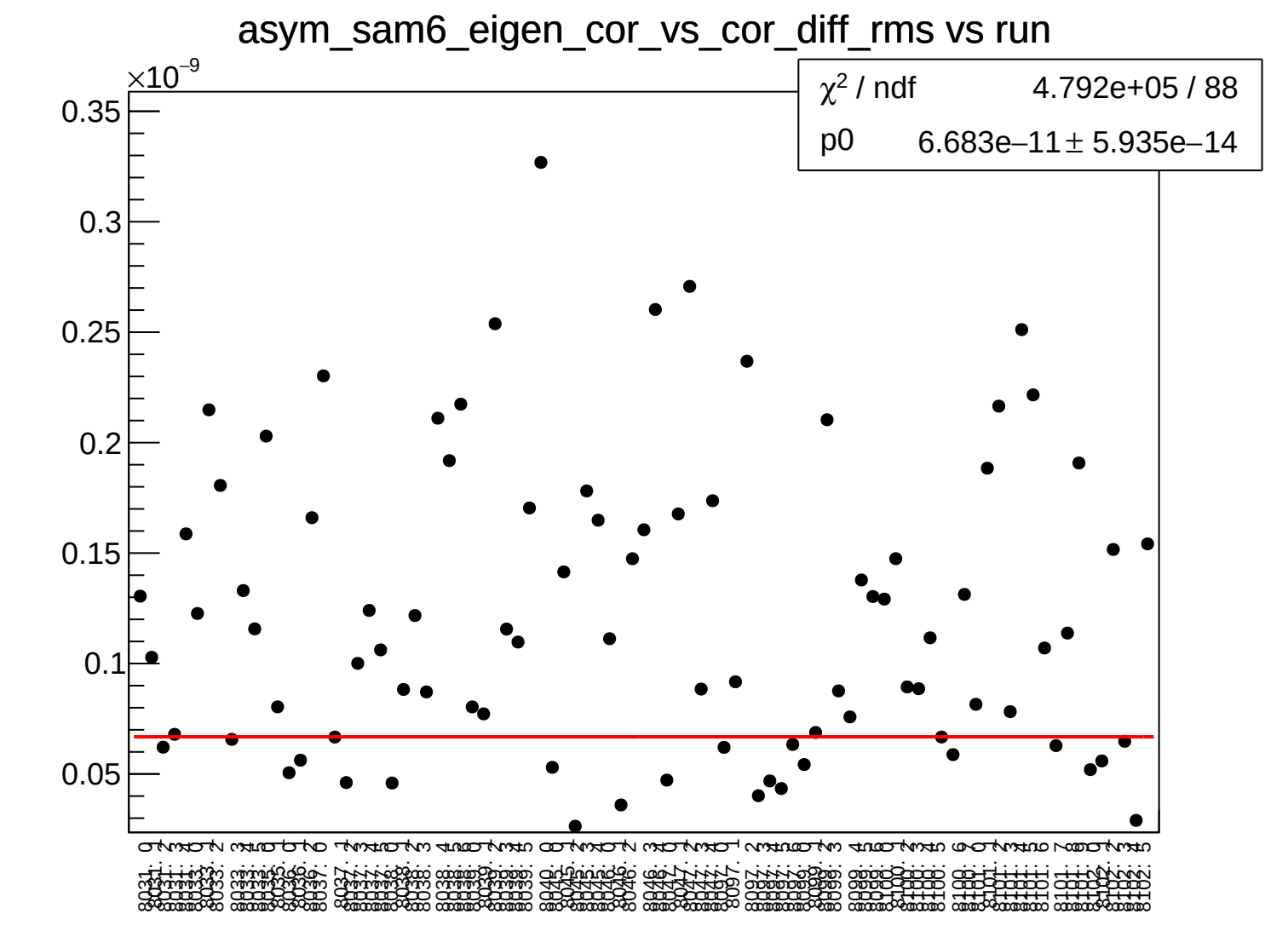

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.123e+04 / 88
p0 94.65 ± 0.07268
140
130
120
110
100
90
80
70

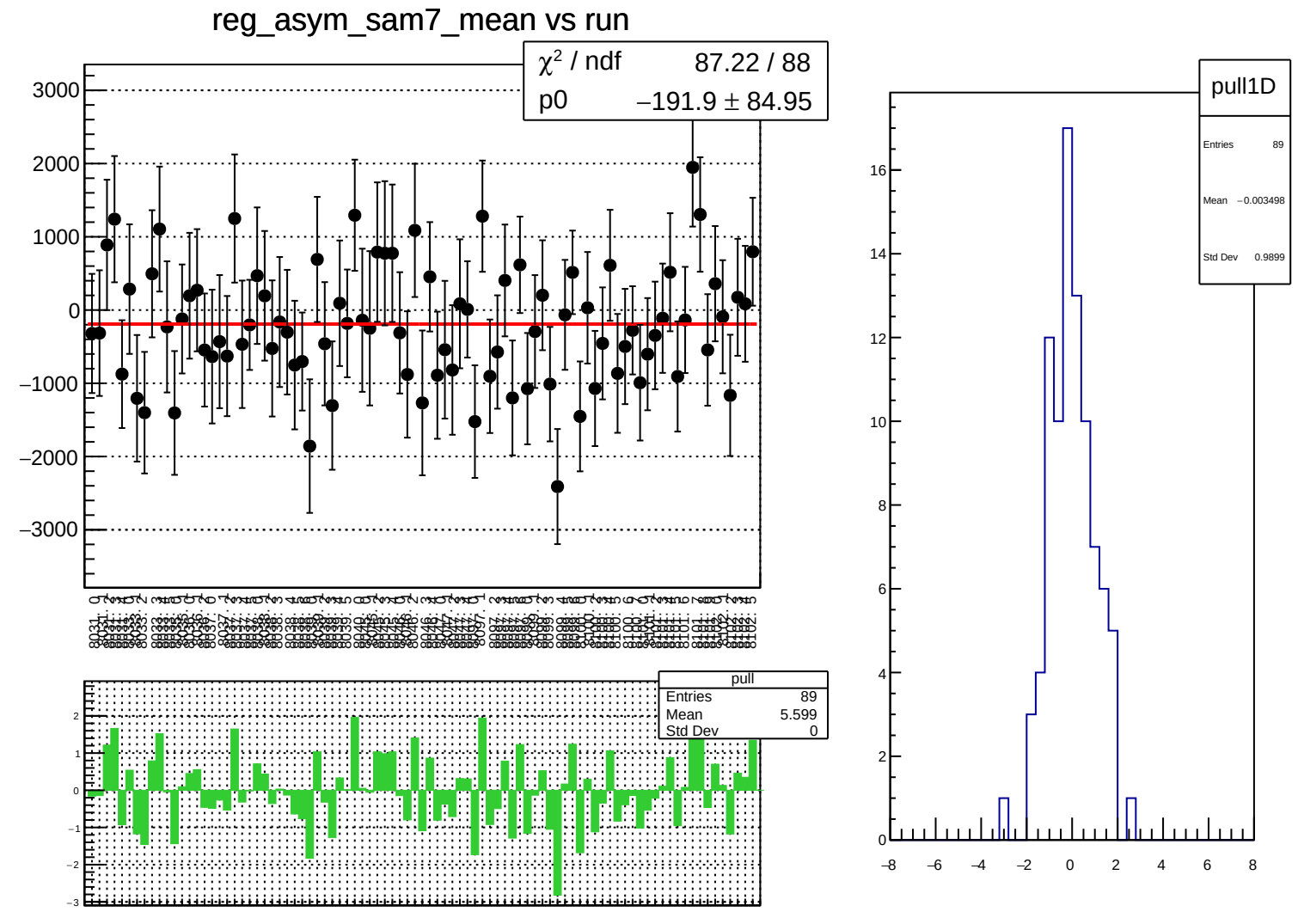

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.53 / 88
p0 −0.1345 ± 0.1028
pull
Entries 89
Mean −63.15
Std Dev 0
pull1D
Entries 89
Mean 0.03192
Std Dev 0.9566

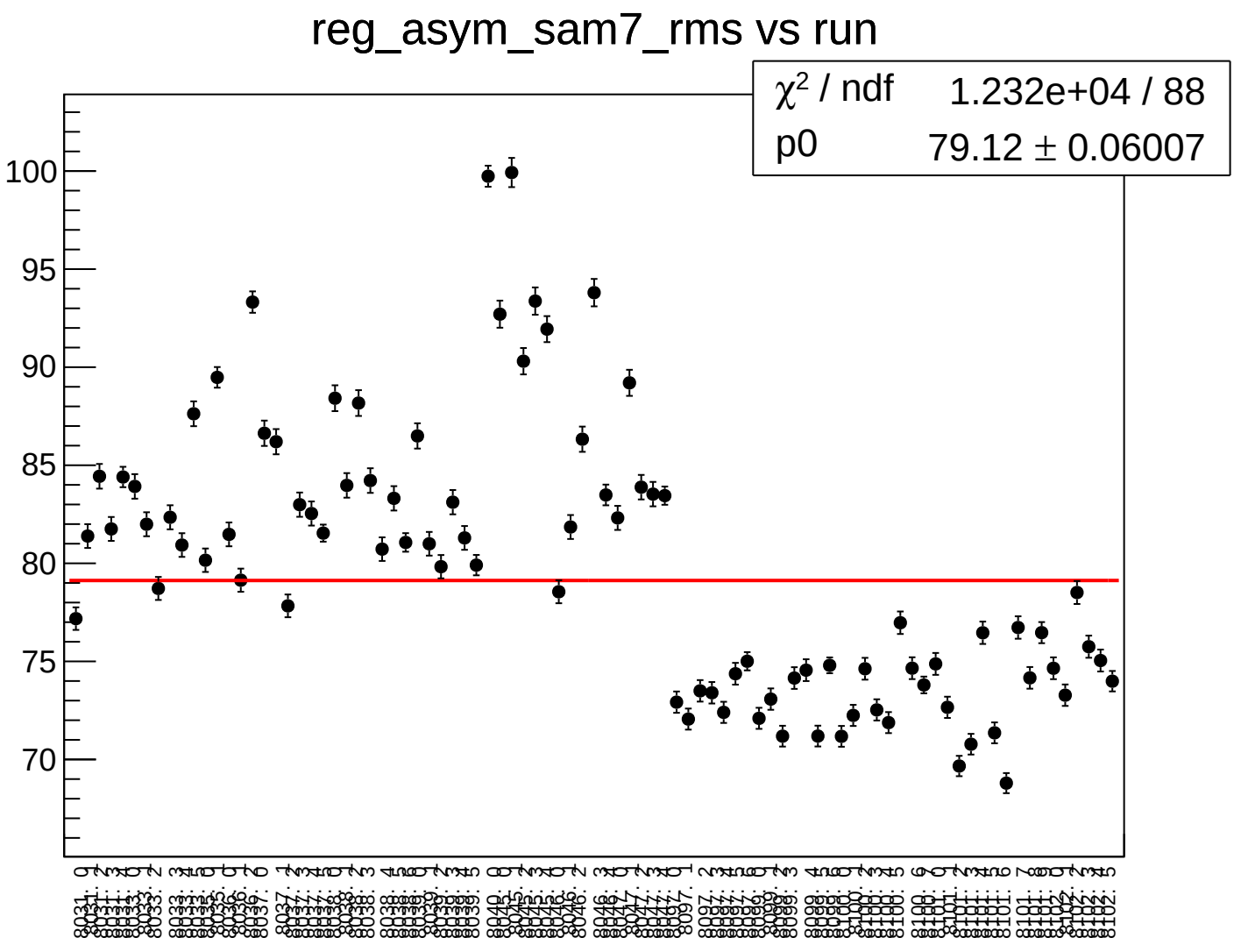

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.123e+04 / 88
p0 94.65 ± 0.07268
140
130
120
110
100
90
80
70

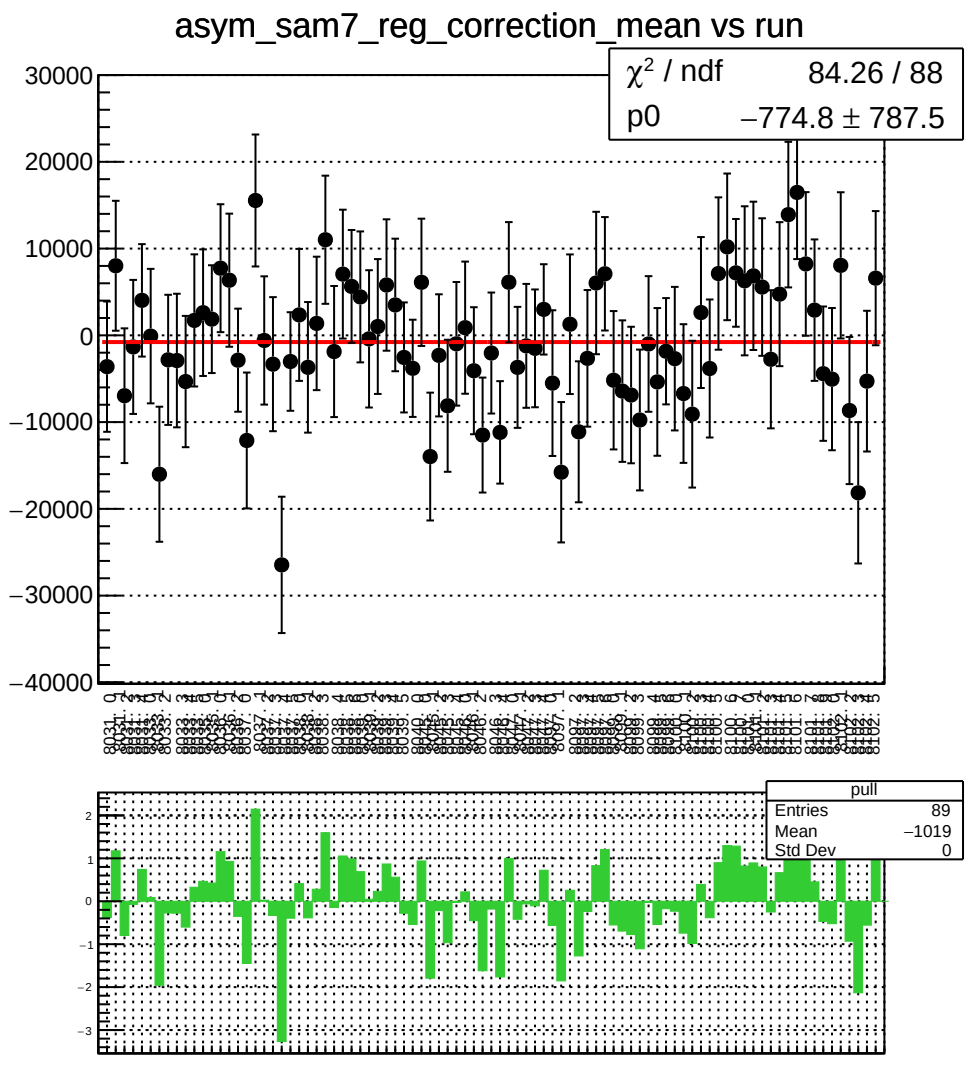

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.24 / 88
p0 7.298e−14 ± 8.393e−14
pull
Entries 89
Mean −1.755
Std Dev 0

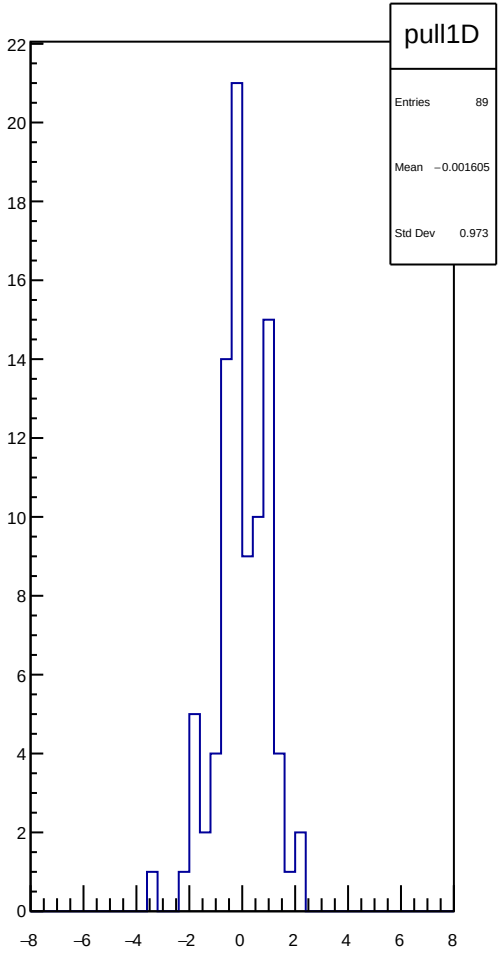

pull1D
Entries 89
Mean −0.0249
Std Dev 1.018

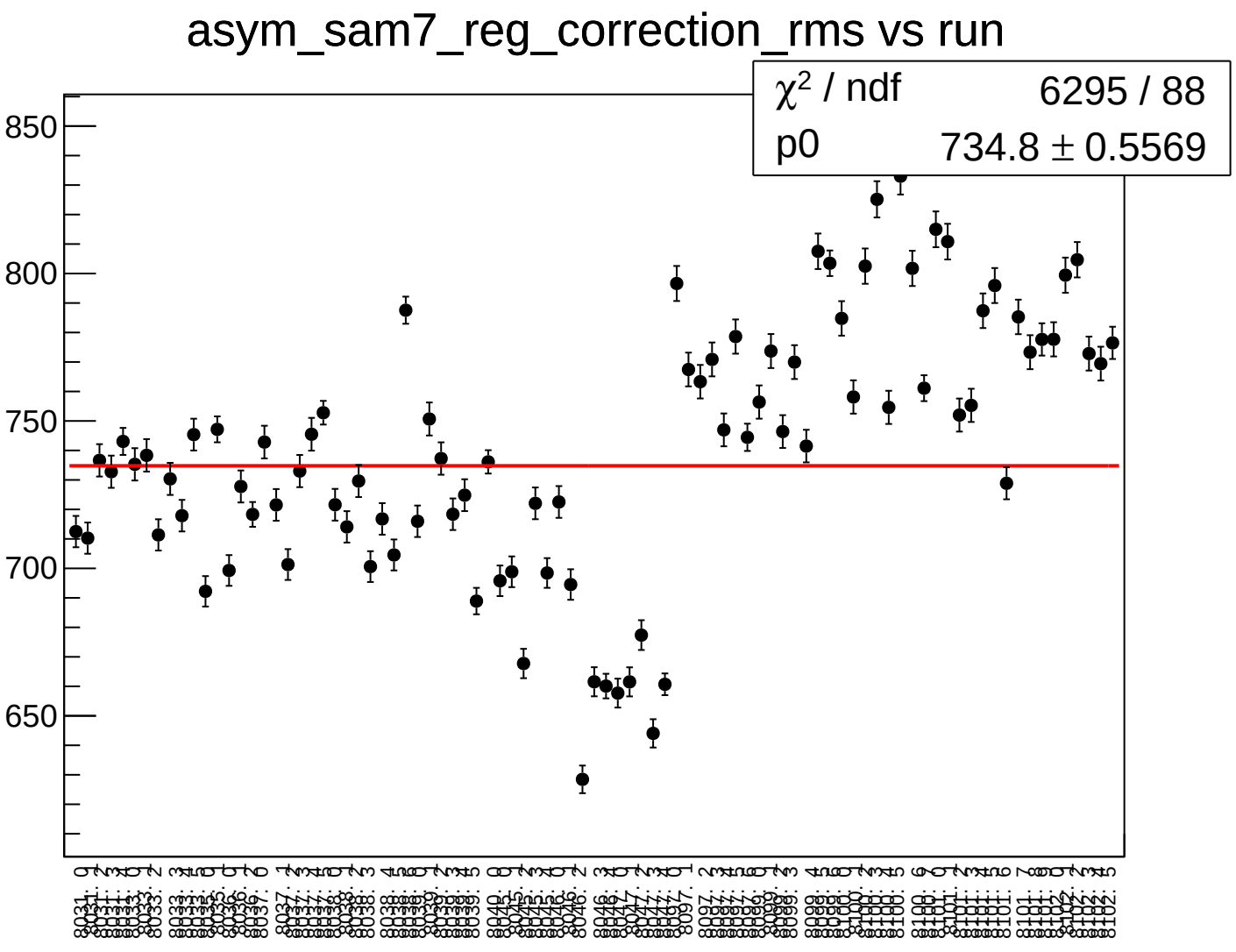

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.792e+05 / 88
p0 6.683e−11 ± 5.935e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

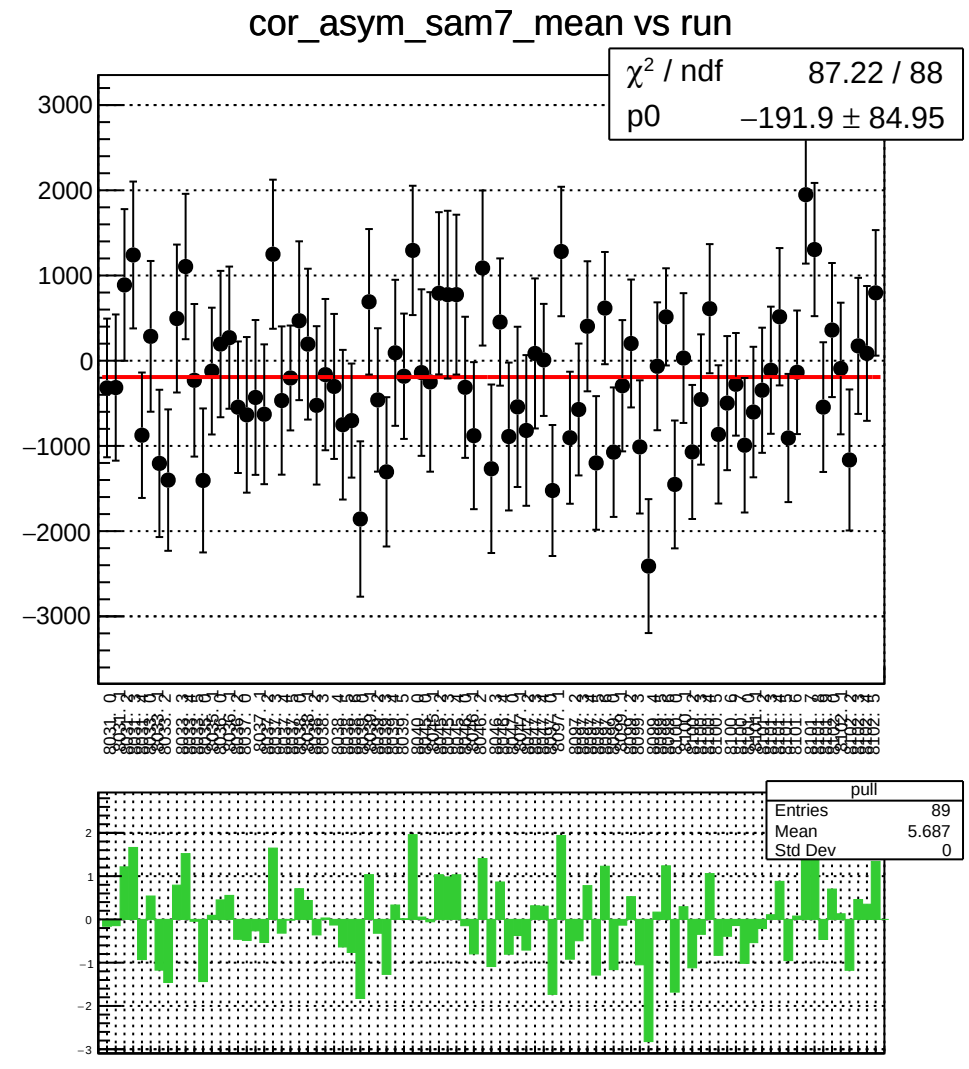

reg_asym_sam7_mean vs run
χ² / ndf 87.22 / 88
p0 −191.9 ± 84.95
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean 5.599
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.003498
Std Dev 0.9899
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

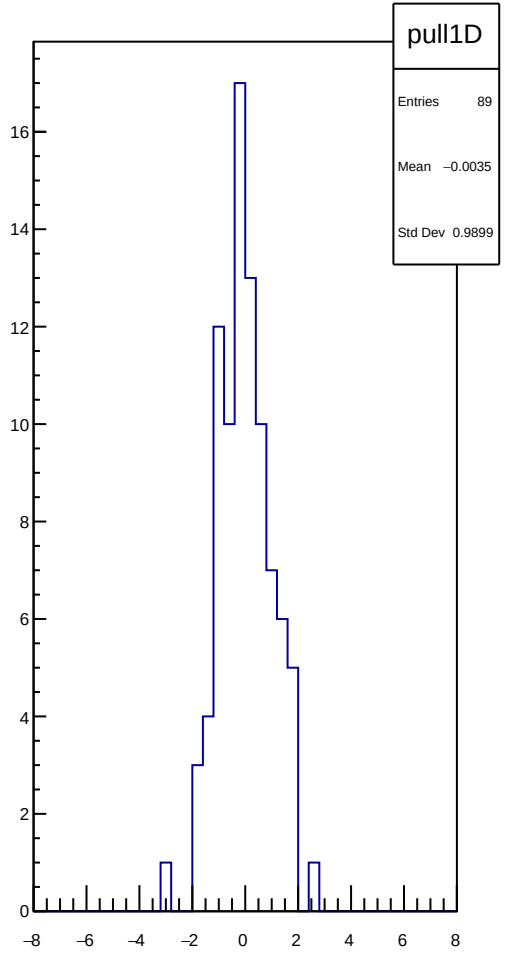

reg_asym_sam7_rms vs run
χ² / ndf 1.232e+04 / 88
p0 79.12 ± 0.06007
100
95
90
85
80
75
70

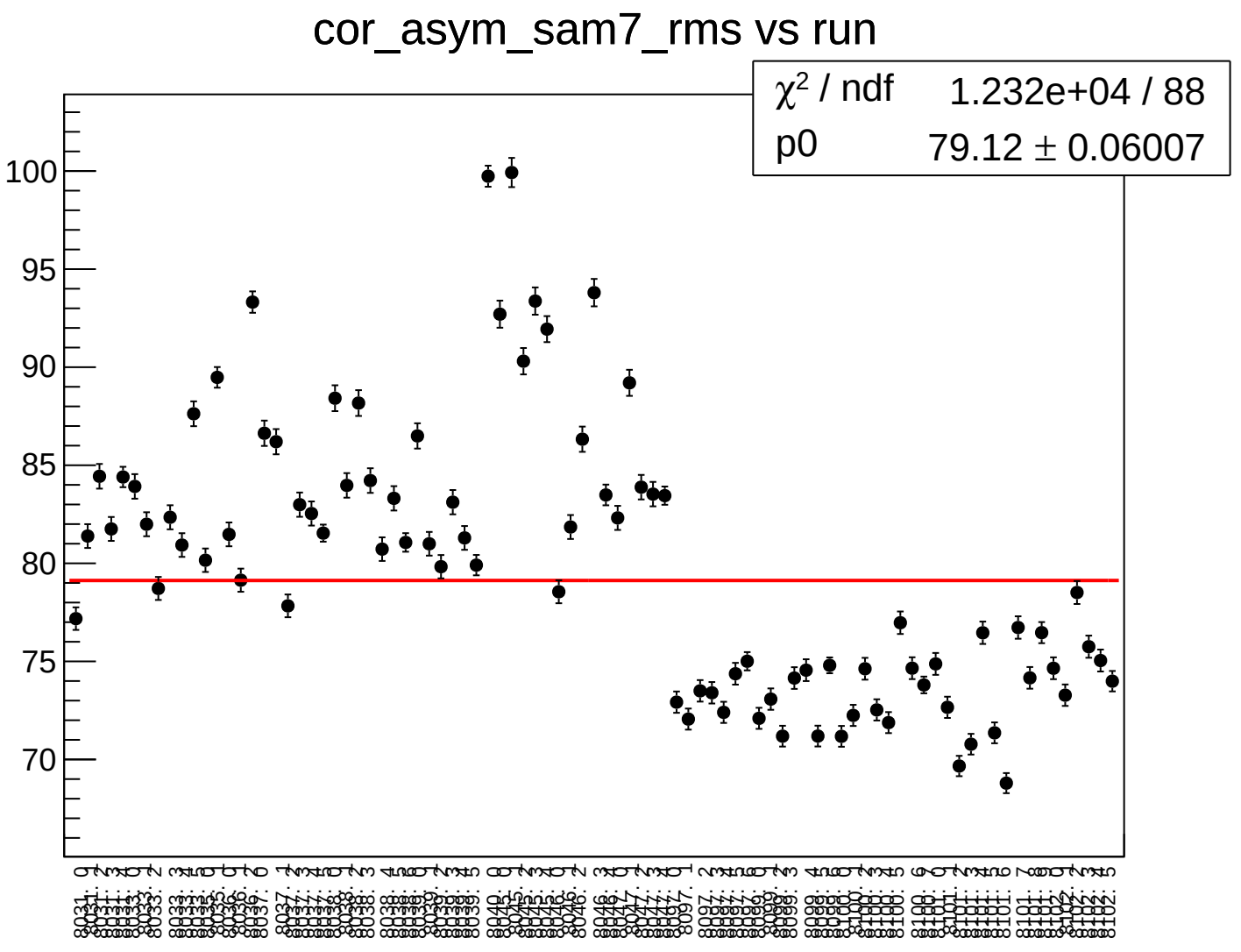

asym_sam7_reg_correction_mean vs run
χ² / ndf 84.26 / 88
p0 −774.8 ± 787.5
pull
Entries 89
Mean −1019
Std Dev 0

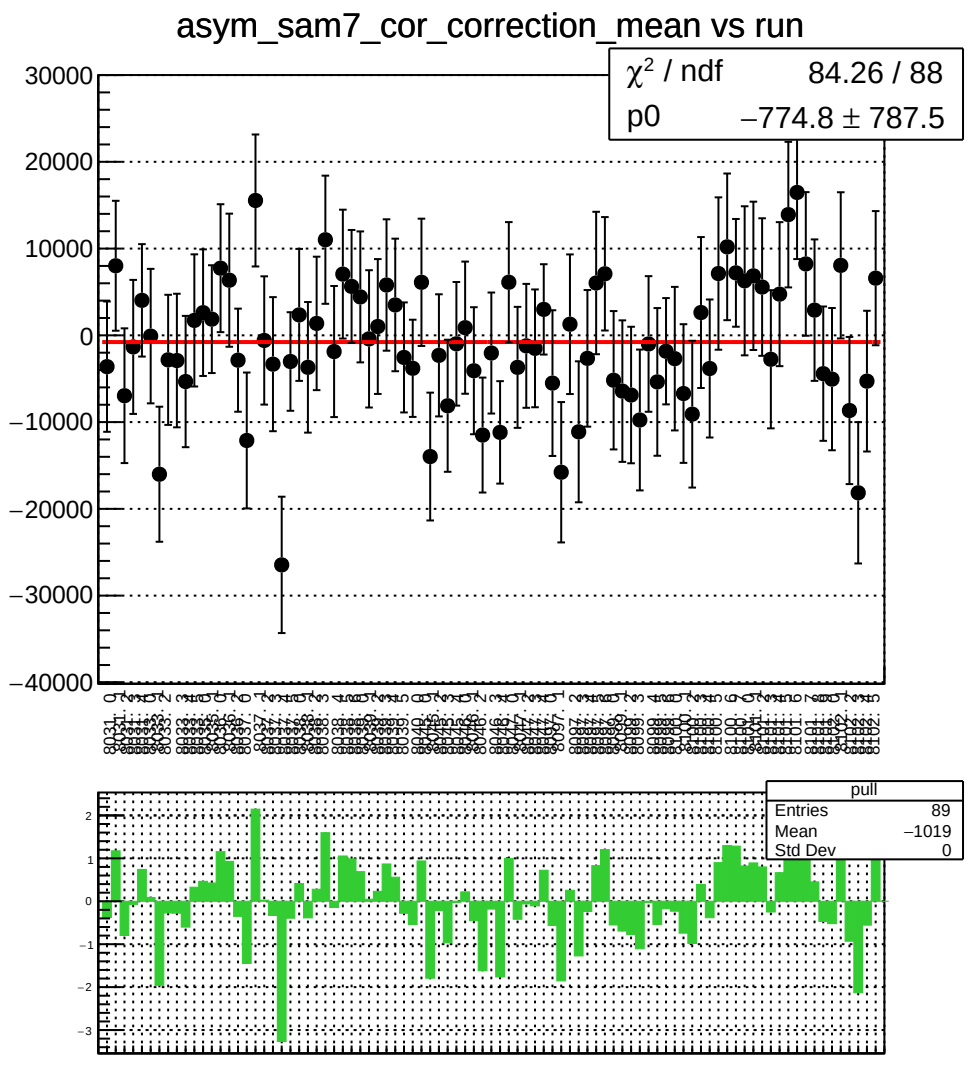

pull1D
Entries 89
Mean −0.001605
Std Dev 0.973

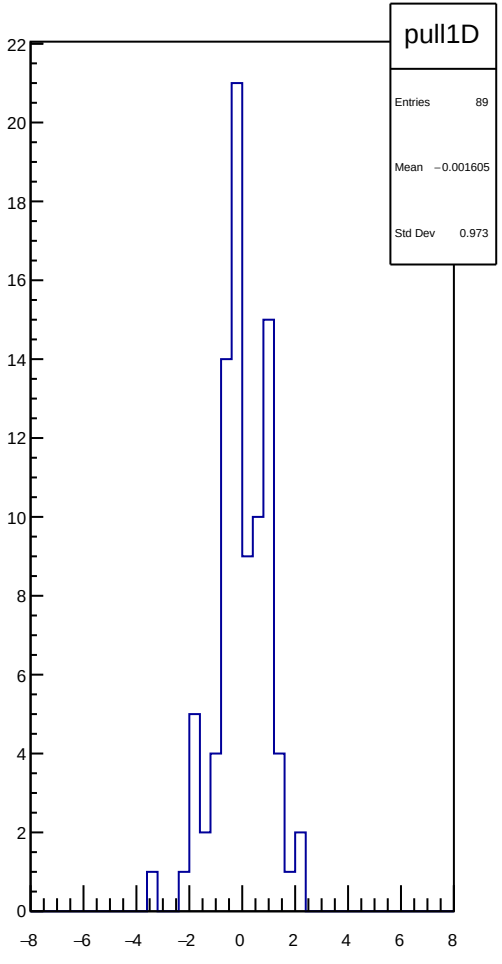

asym_sam7_reg_correction_rms vs run
χ² / ndf 6295 / 88
p0 734.8 ± 0.5569
850
800
750
700
650

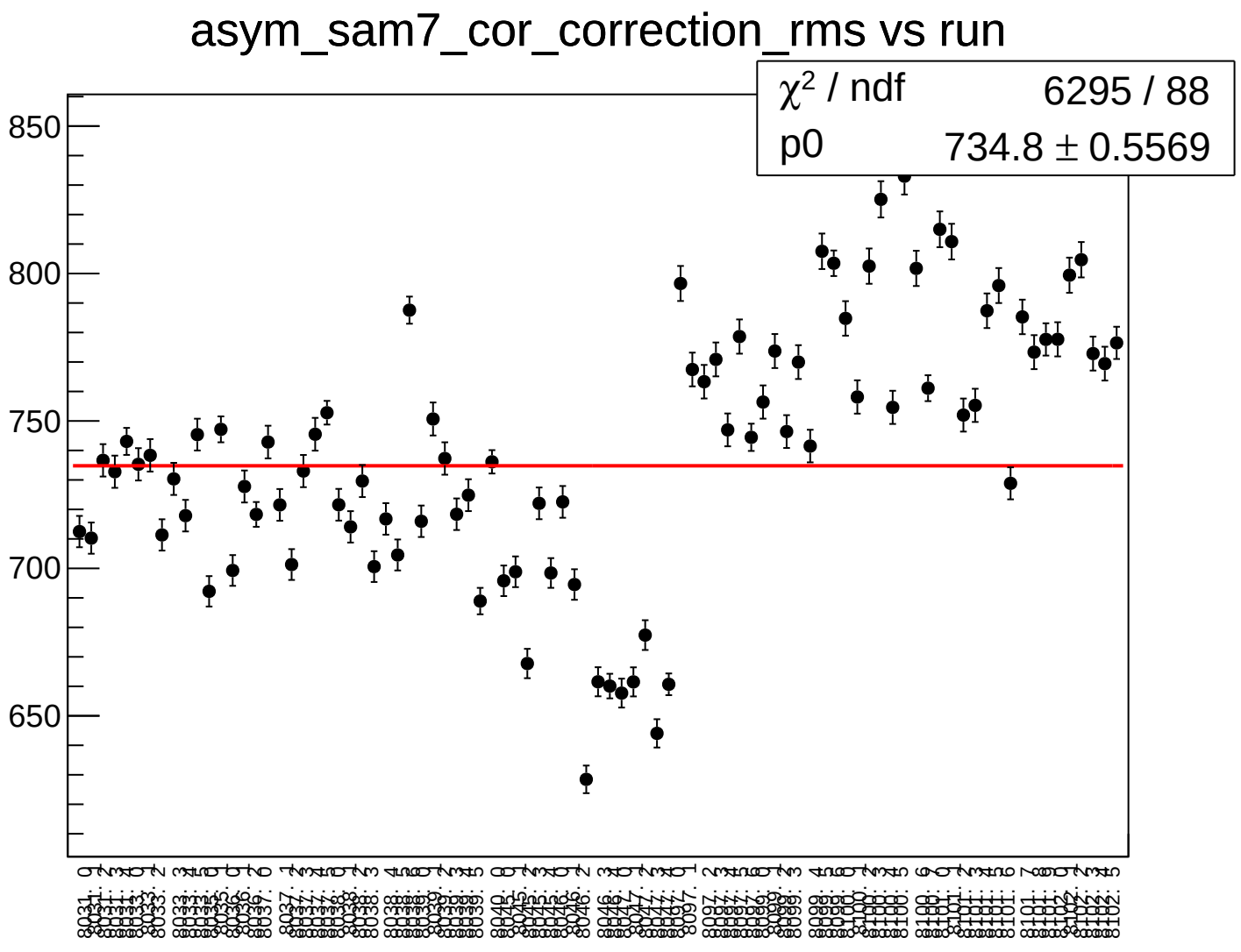

cor_asym_sam7_mean vs run
χ² / ndf 87.22 / 88
p0 −191.9 ± 84.95
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean 5.687
Std Dev 0
2
1
0
−1
−2
−3

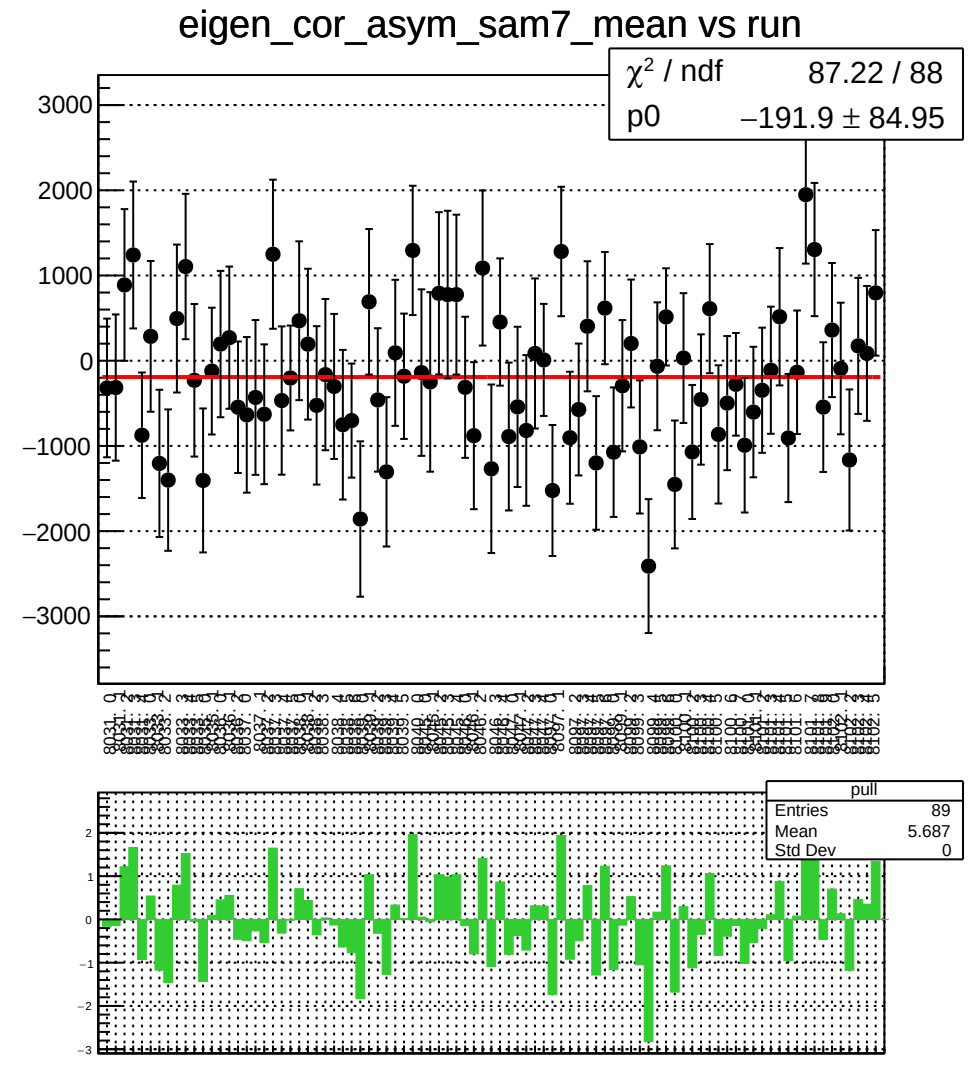

pull1D
Entries 89
Mean −0.0035
Std Dev 0.9899
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

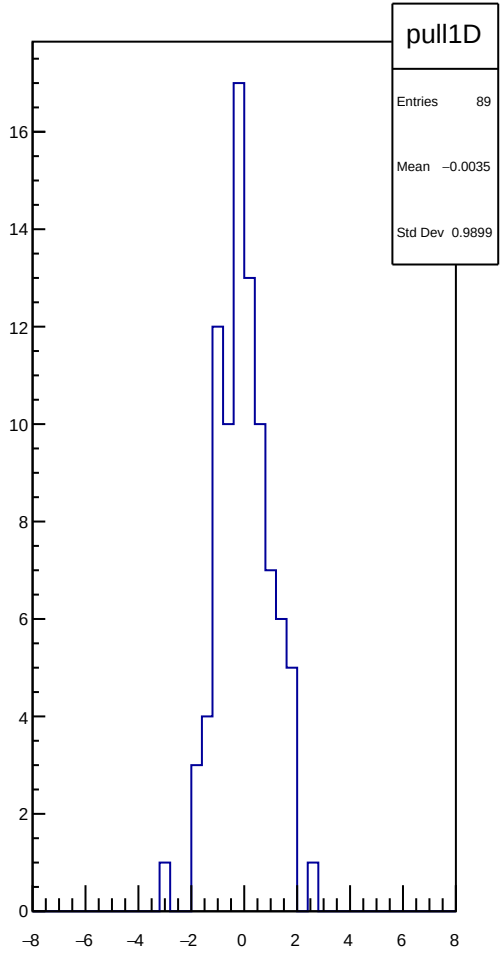

cor_asym_sam7_rms vs run
χ² / ndf 1.232e+04 / 88
p0 79.12 ± 0.06007
100
95
90
85
80
75
70

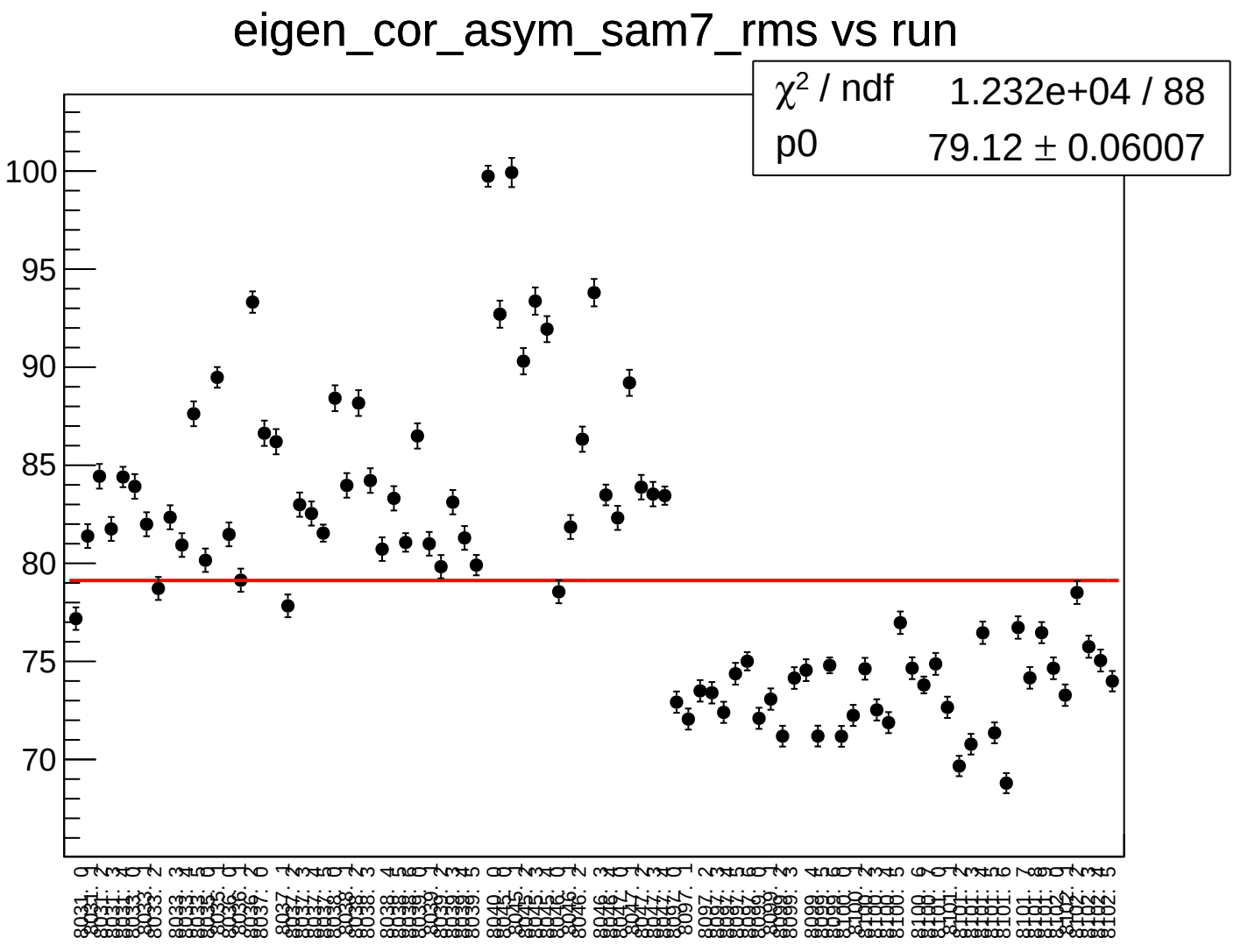

asym_sam7_cor_correction_mean vs run
χ² / ndf 84.26 / 88
p0 −774.8 ± 787.5
pull
Entries 89
Mean −1019
Std Dev 0

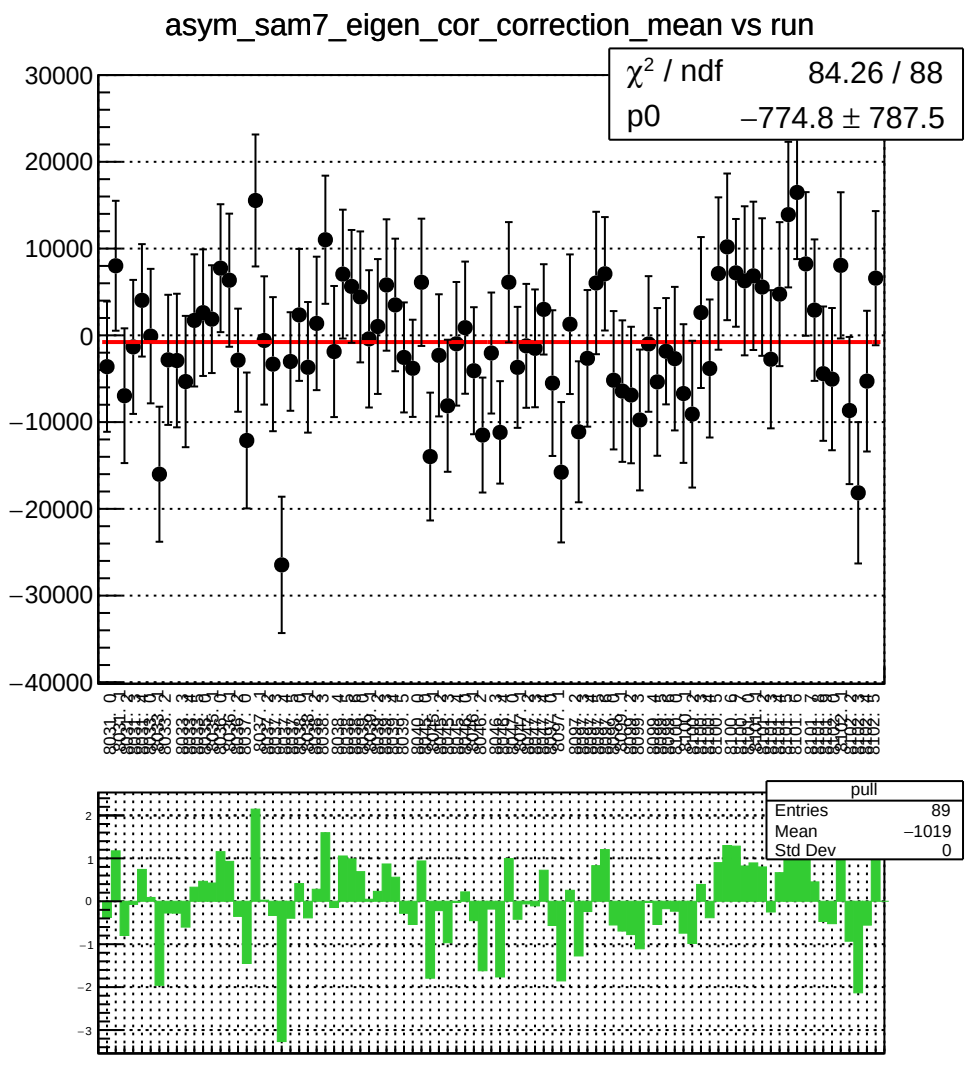

pull1D
Entries 89
Mean −0.001605
Std Dev 0.973

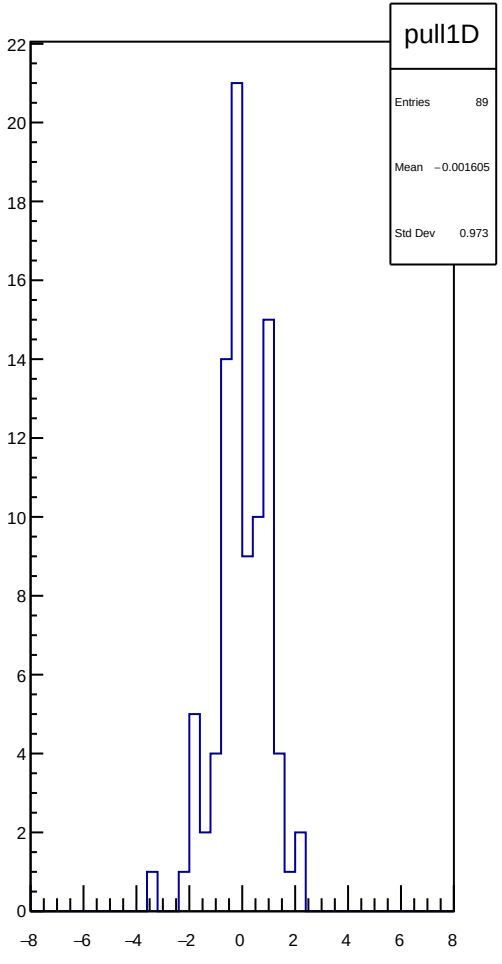

asym_sam7_cor_correction_rms vs run
χ² / ndf 6295 / 88
p0 734.8 ± 0.5569
850
800
750
700
650

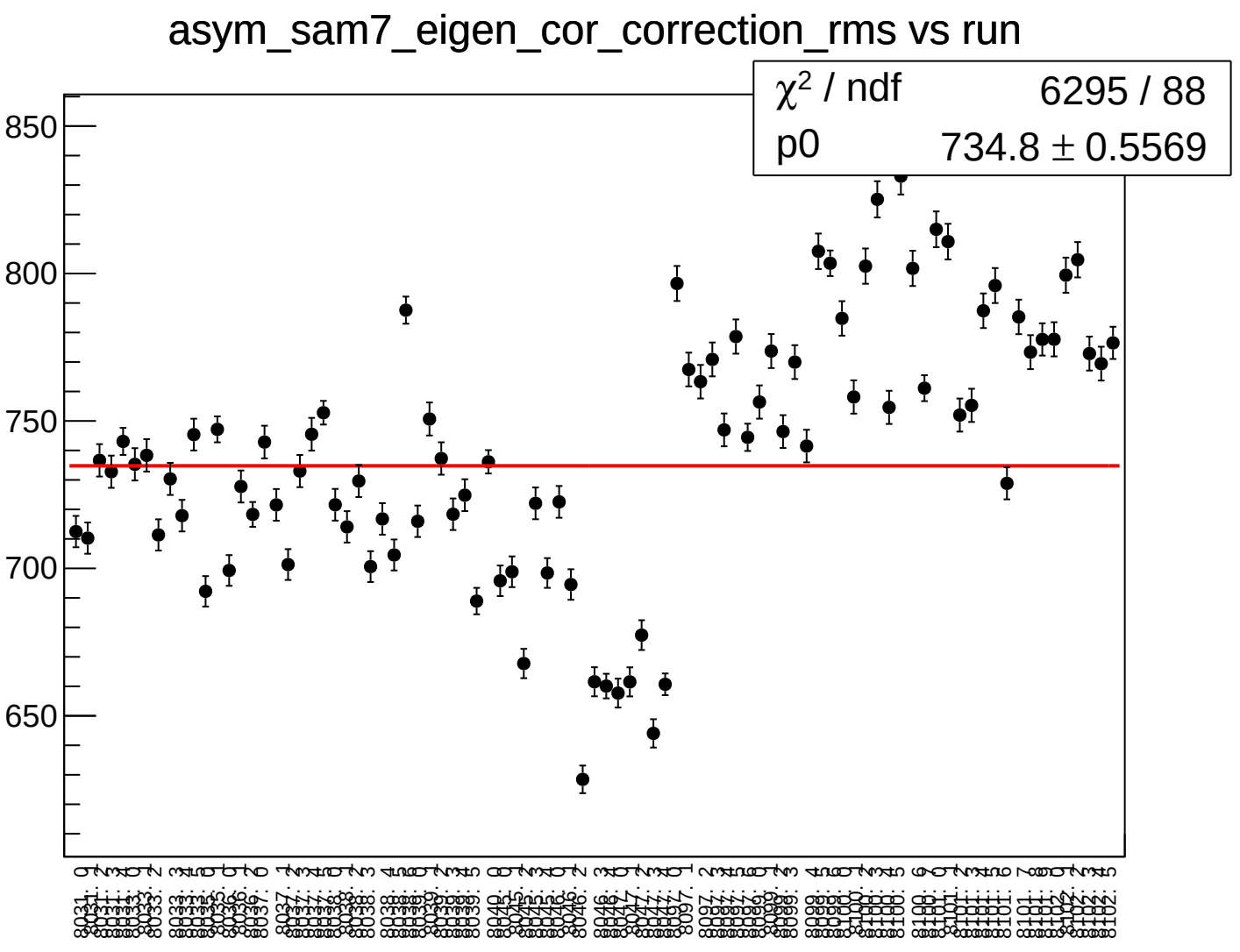

eigen_cor_asym_sam7_mean vs run
χ² / ndf 87.22 / 88
p0 −191.9 ± 84.95
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean 5.687
Std Dev 0
2
1
0
−1
−2
−3

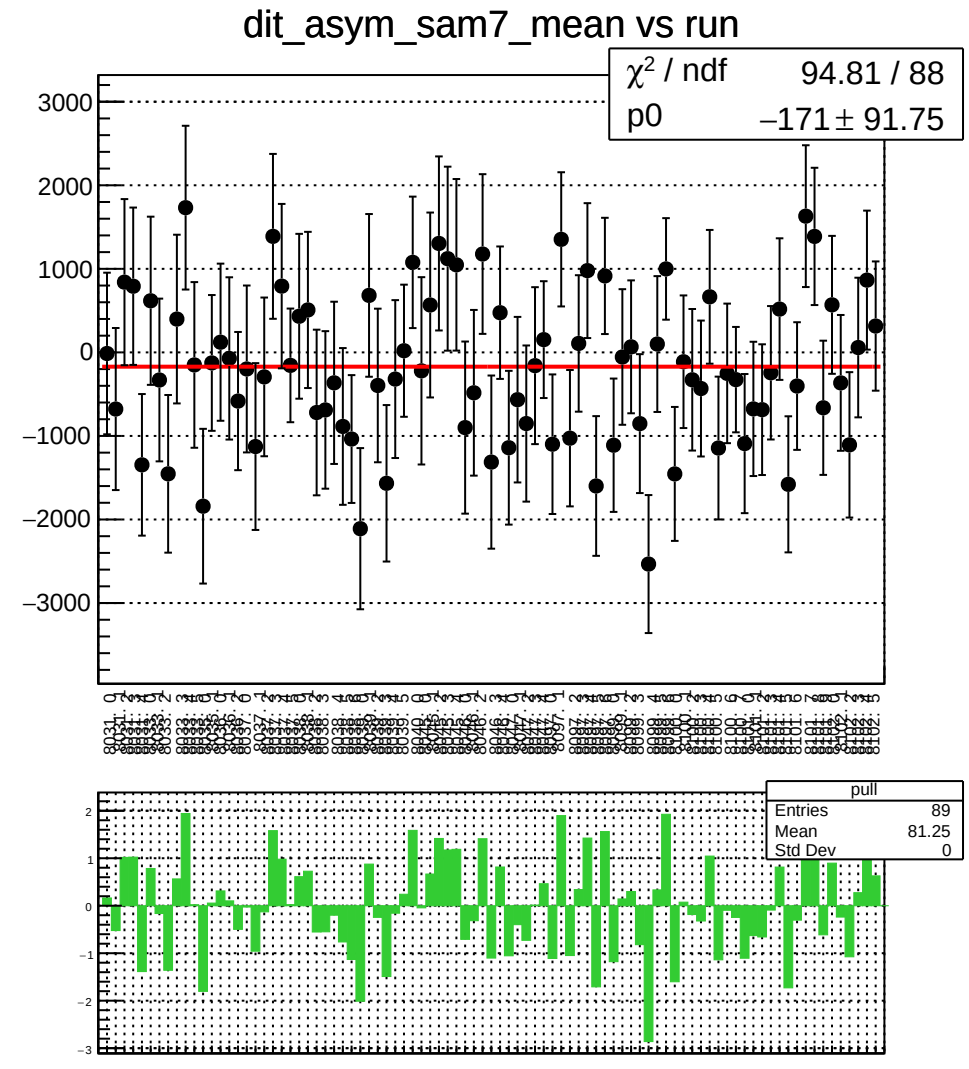

pull1D
Entries 89
Mean −0.0035
Std Dev 0.9899
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

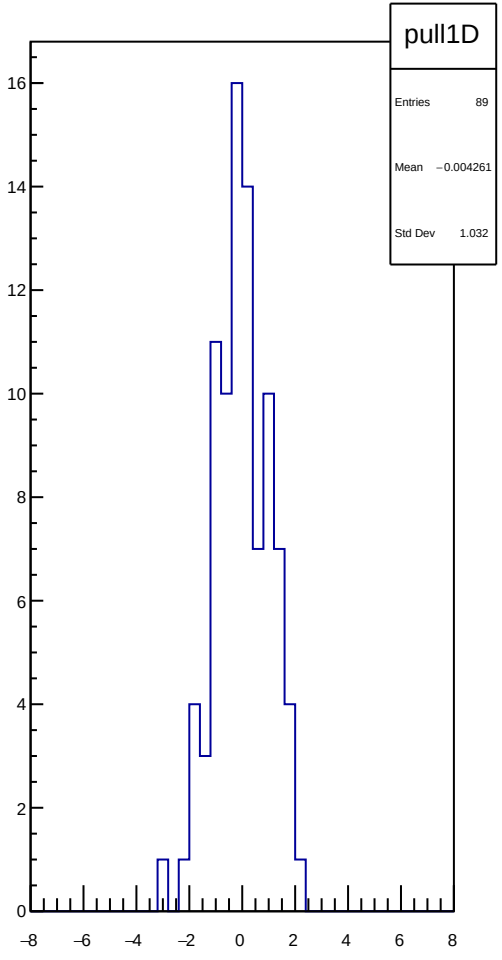

eigen_cor_asym_sam7_rms vs run
χ² / ndf 1.232e+04 / 88
p0 79.12 ± 0.06007
100
95
90
85
80
75
70

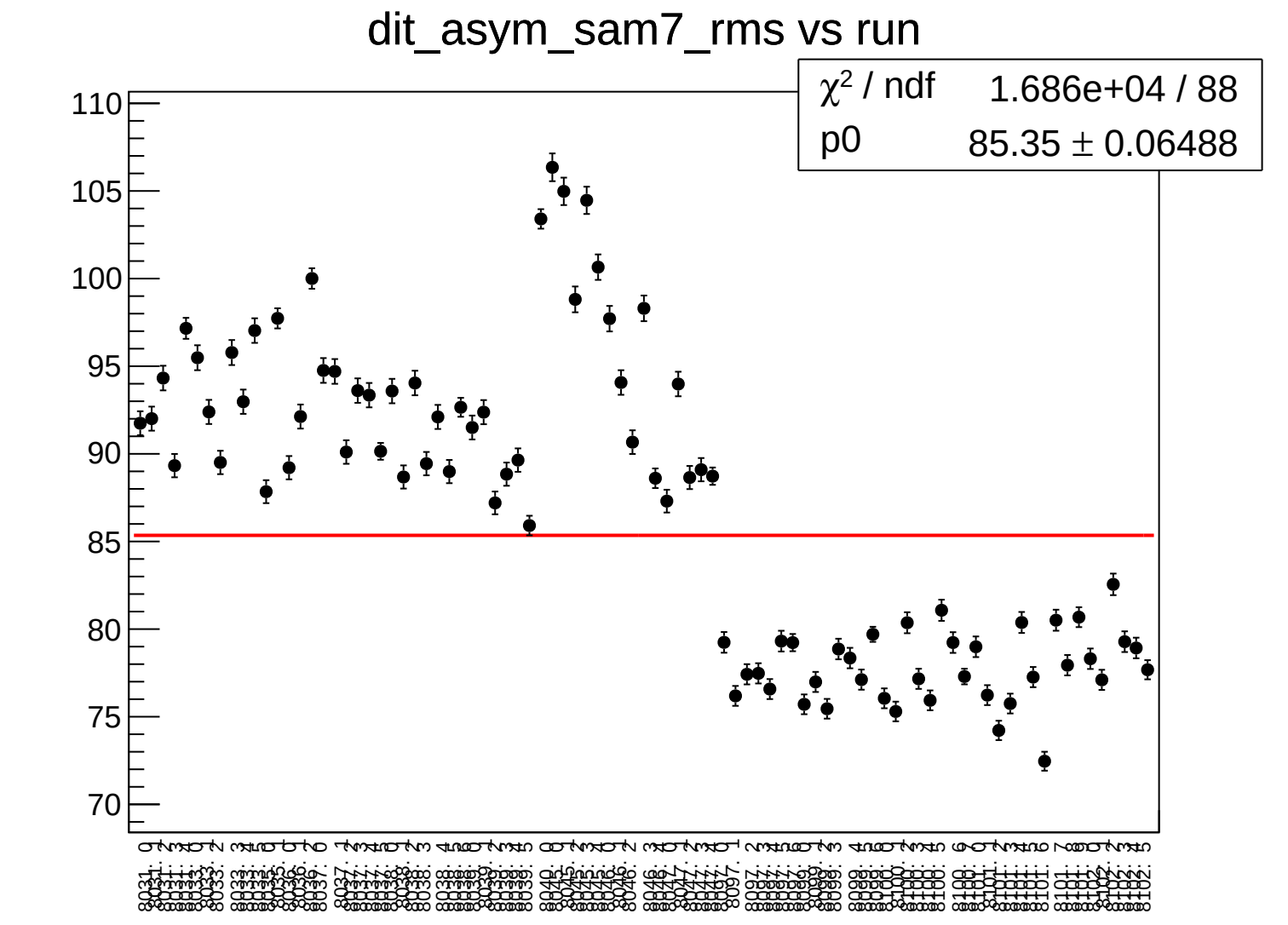

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 84.26 / 88
p0 −774.8 ± 787.5
pull
Entries 89
Mean −1019
Std Dev 0

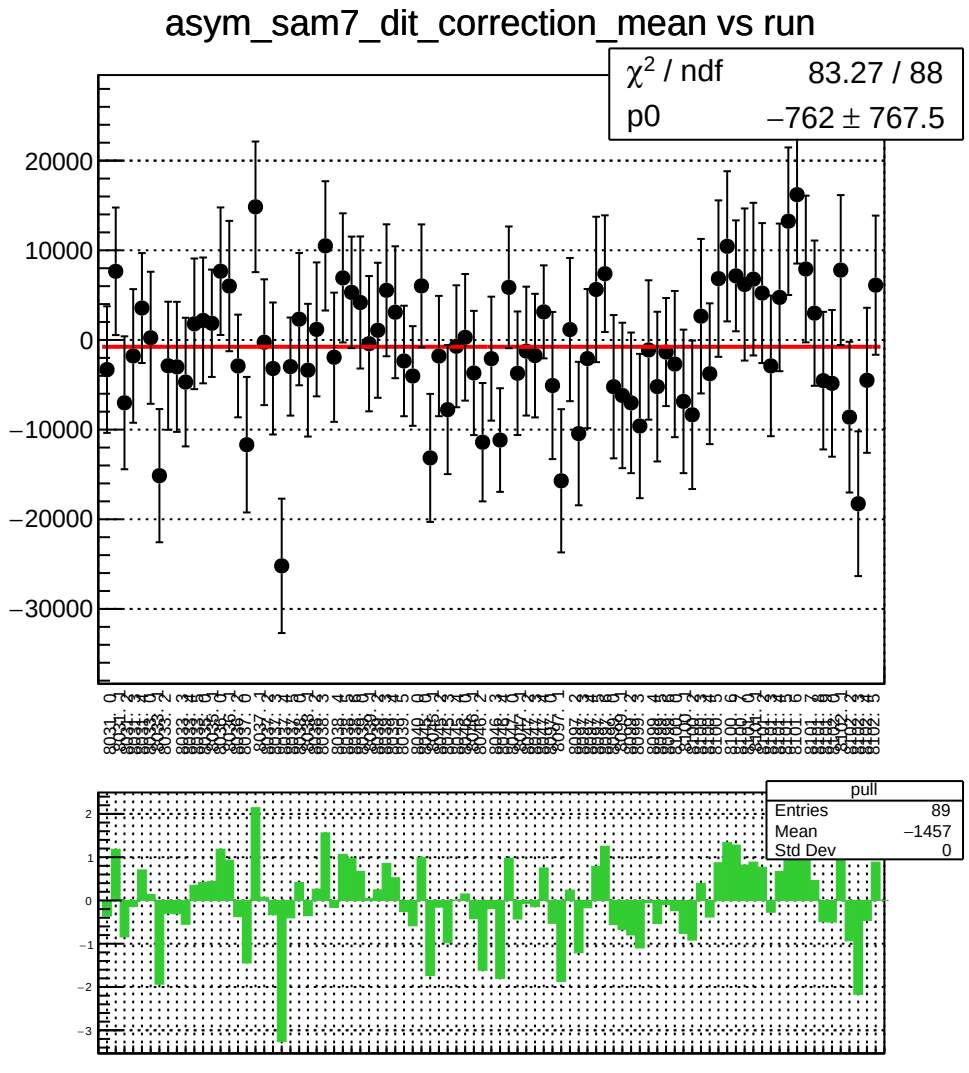

pull1D
Entries 89
Mean −0.001605
Std Dev 0.973

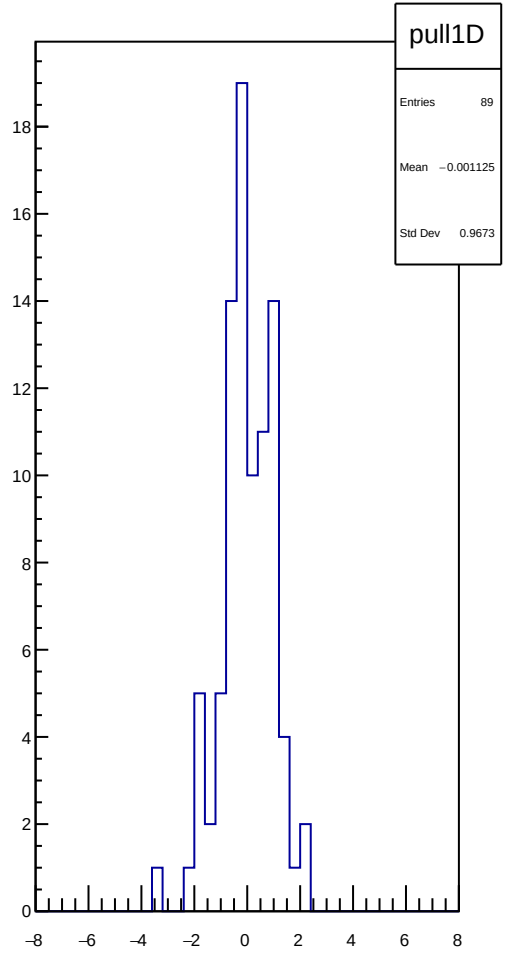

asym_sam7_eigen_cor_correction_rms vs run
χ² / ndf 6295 / 88
p0 734.8 ± 0.5569
850
800
750
700
650

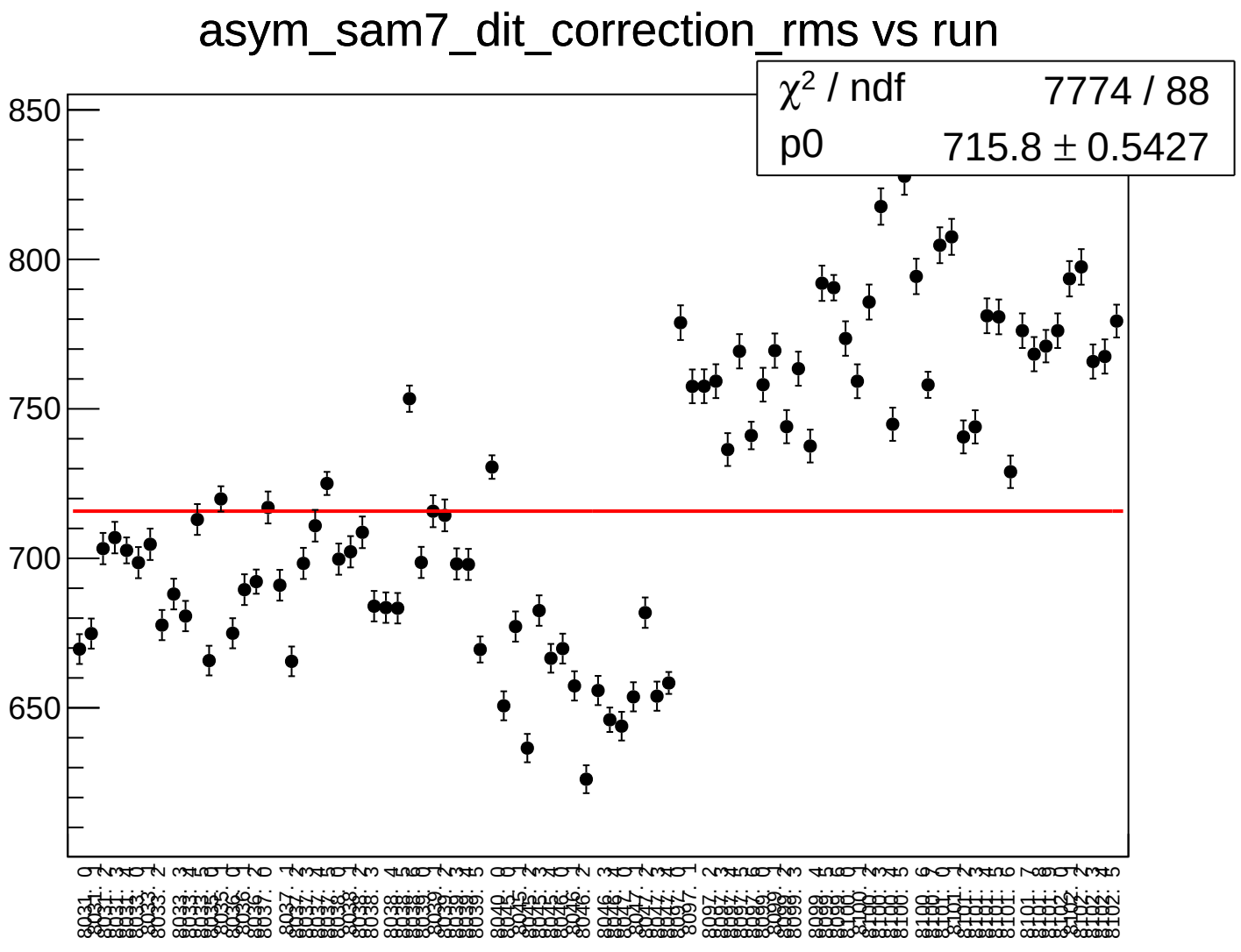

dit_asym_sam7_mean vs run
χ² / ndf 94.81 / 88
p0 −171 ± 91.75
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean 81.25
Std Dev 0
2
1
0
−1
−2
−3

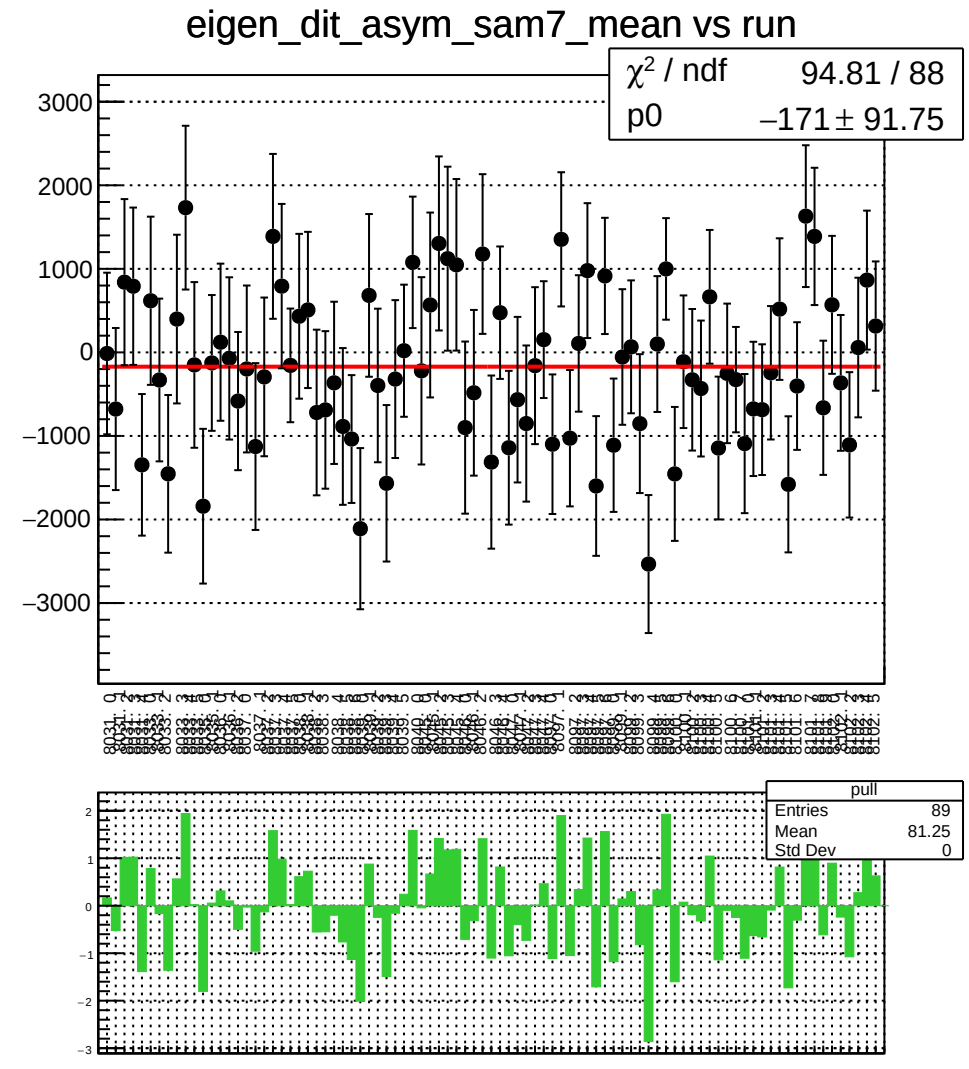

pull1D
Entries 89
Mean −0.004261
Std Dev 1.032
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

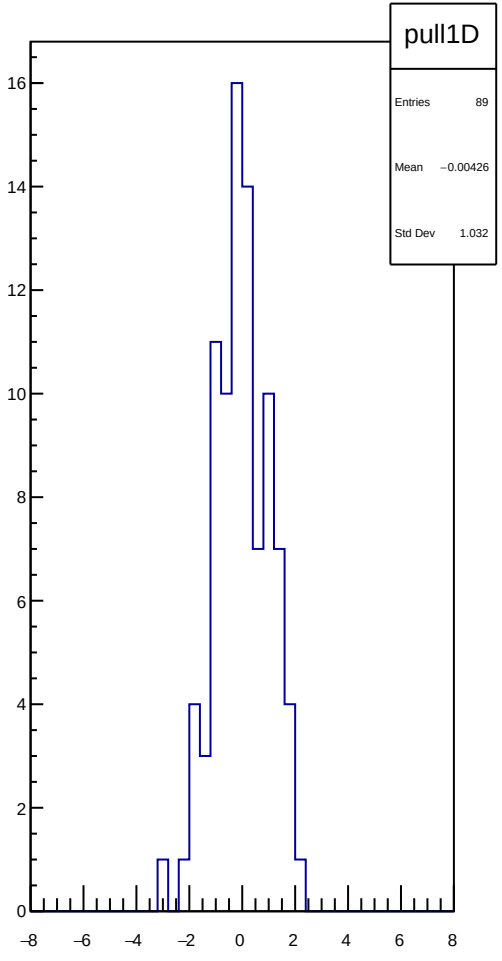

dit_asym_sam7_rms vs run
$\chi^2$ / ndf 1.686e+04 / 88
p0 85.35 ± 0.06488
110
105
100
95
90
85
80
75
70

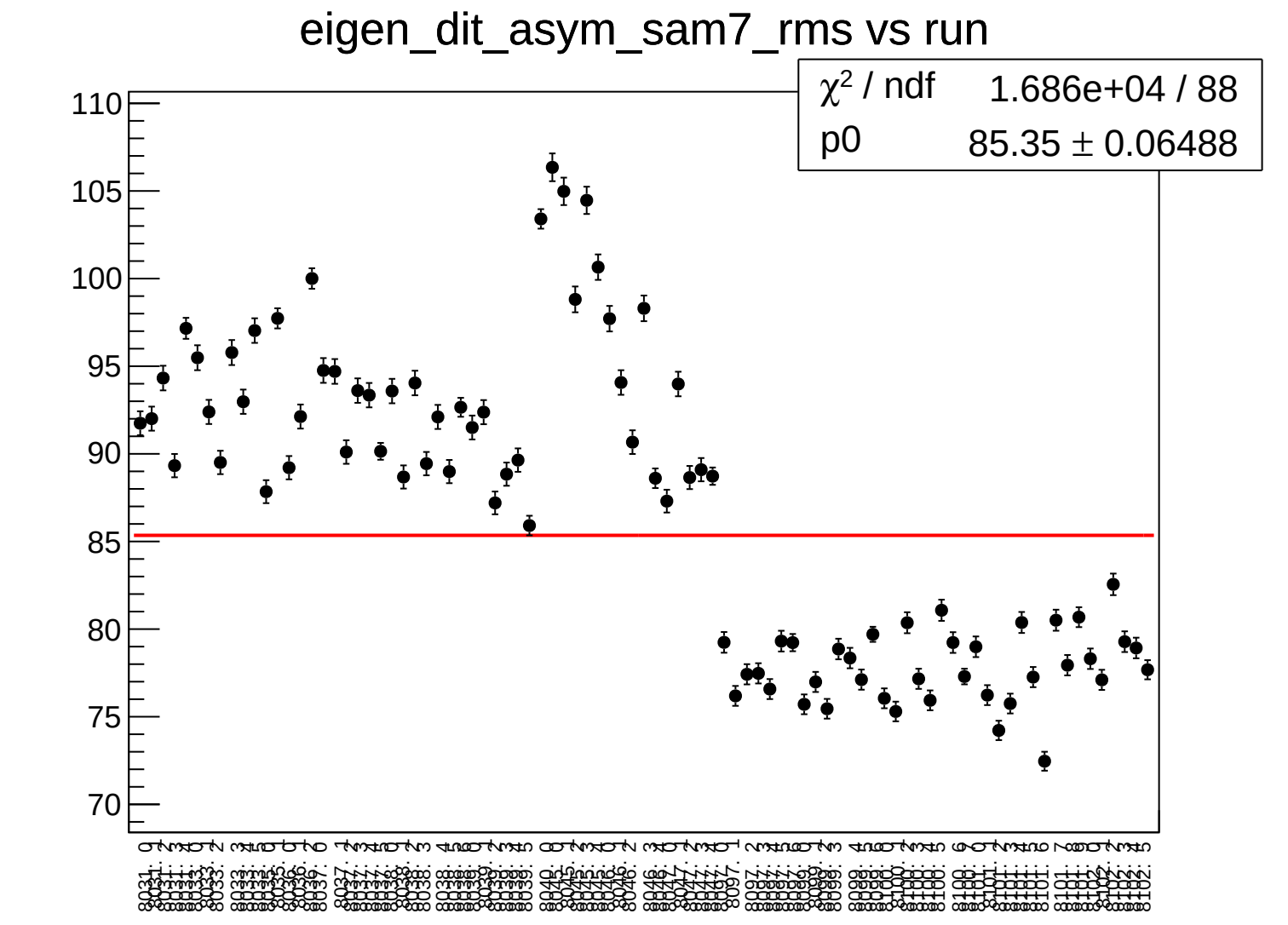

asym_sam7_dit_correction_mean vs run
χ² / ndf 83.27 / 88
p0 −762 ± 767.5
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −1457
Std Dev 0
2
1
0
−1
−2
−3

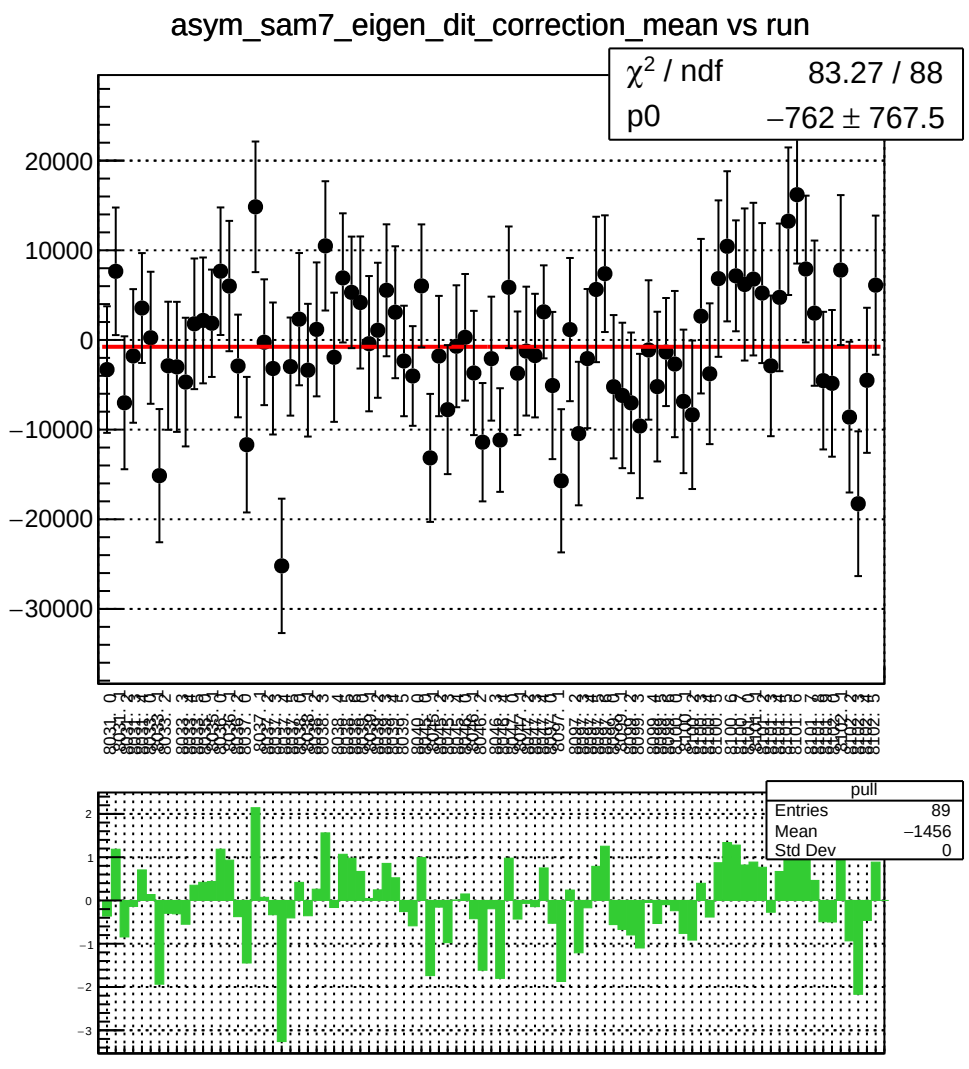

pull1D
Entries 89
Mean −0.001125
Std Dev 0.9673
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

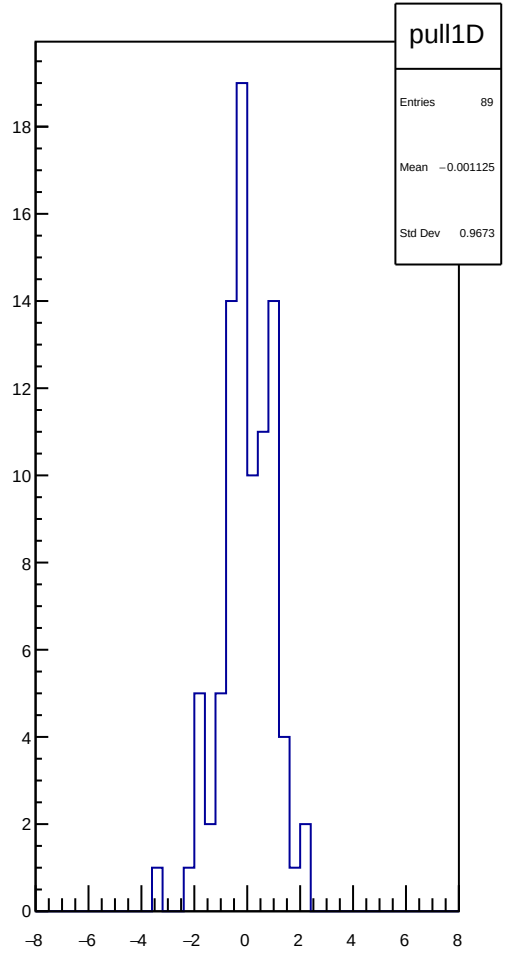

asym_sam7_dit_correction_rms vs run
χ² / ndf 7774 / 88
p0 715.8 ± 0.5427
850
800
750
700
650

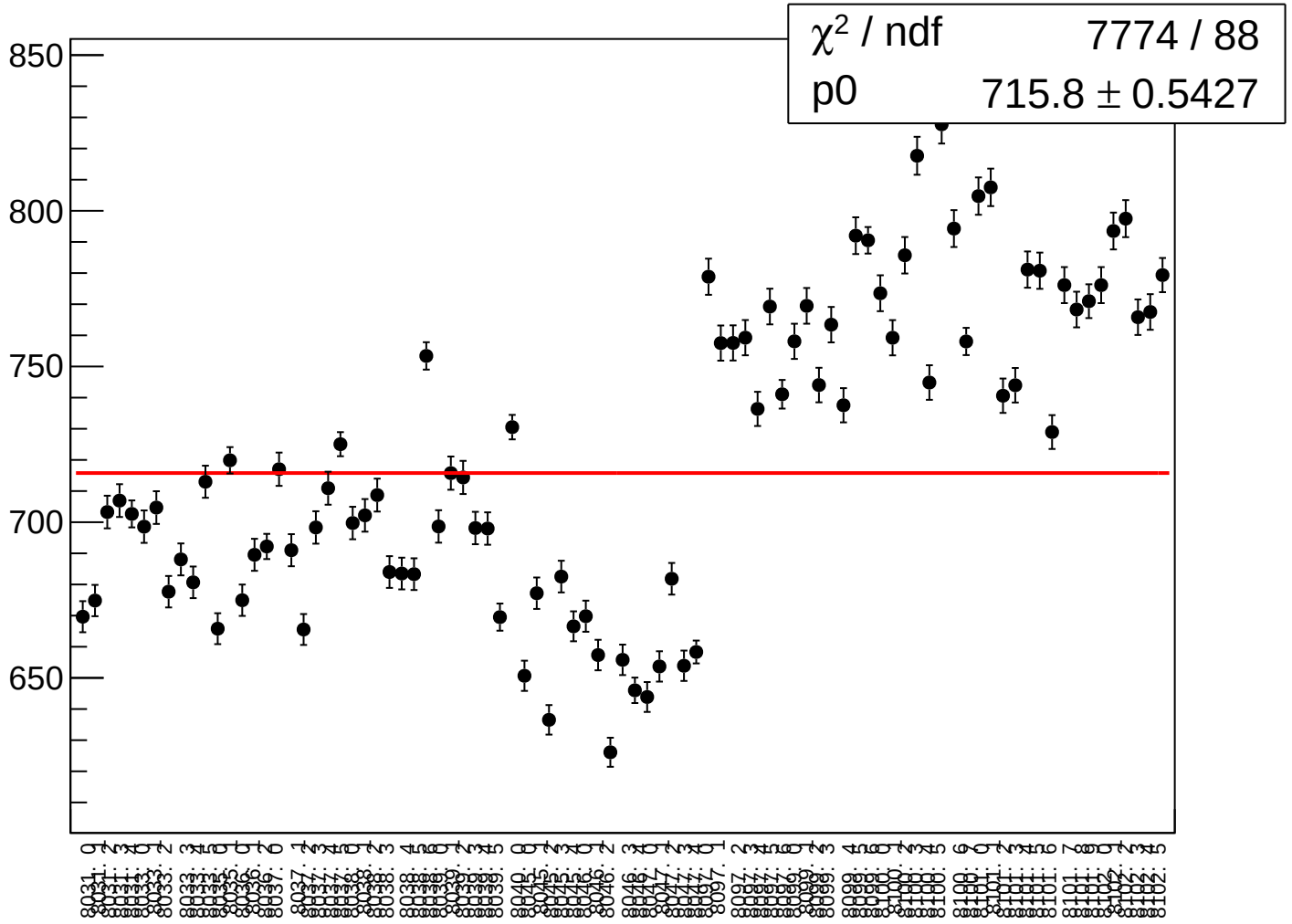

eigen_dit_asym_sam7_mean vs run
χ² / ndf 94.81 / 88
p0 −171 ± 91.75
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean 81.25
Std Dev 0
2
1
0
−1
−2
−3

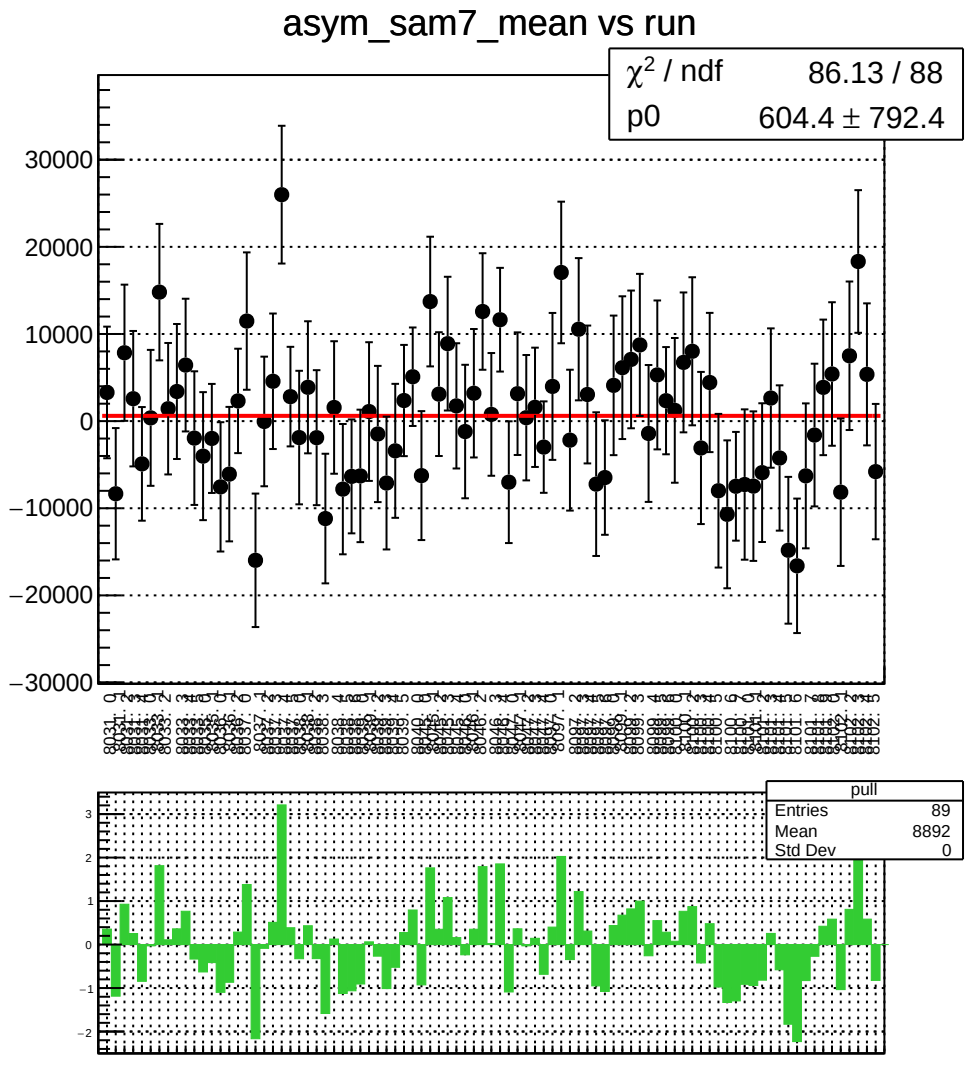

pull1D
Entries 89
Mean −0.00426
Std Dev 1.032
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

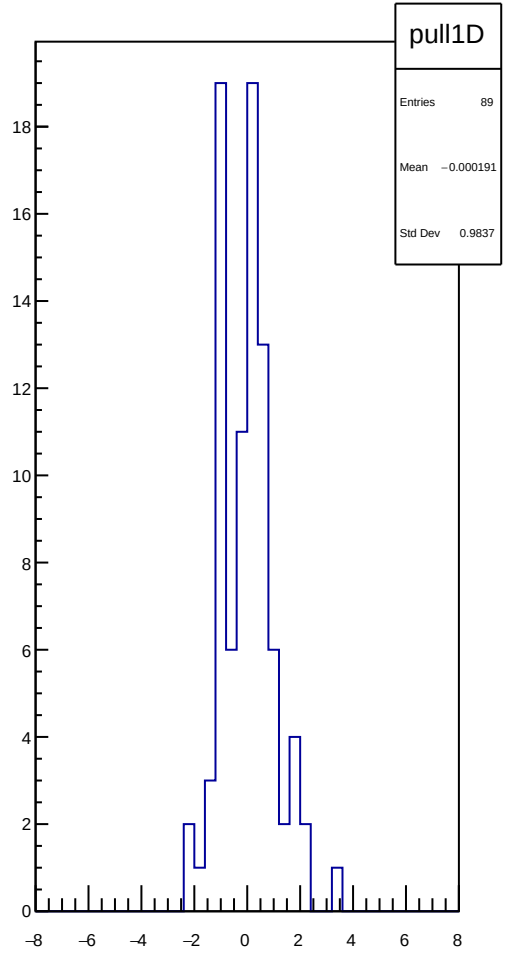

eigen_dit_asym_sam7_rms vs run
χ² / ndf 1.686e+04 / 88
p0 85.35 ± 0.06488
110
105
100
95
90
85
80
75
70

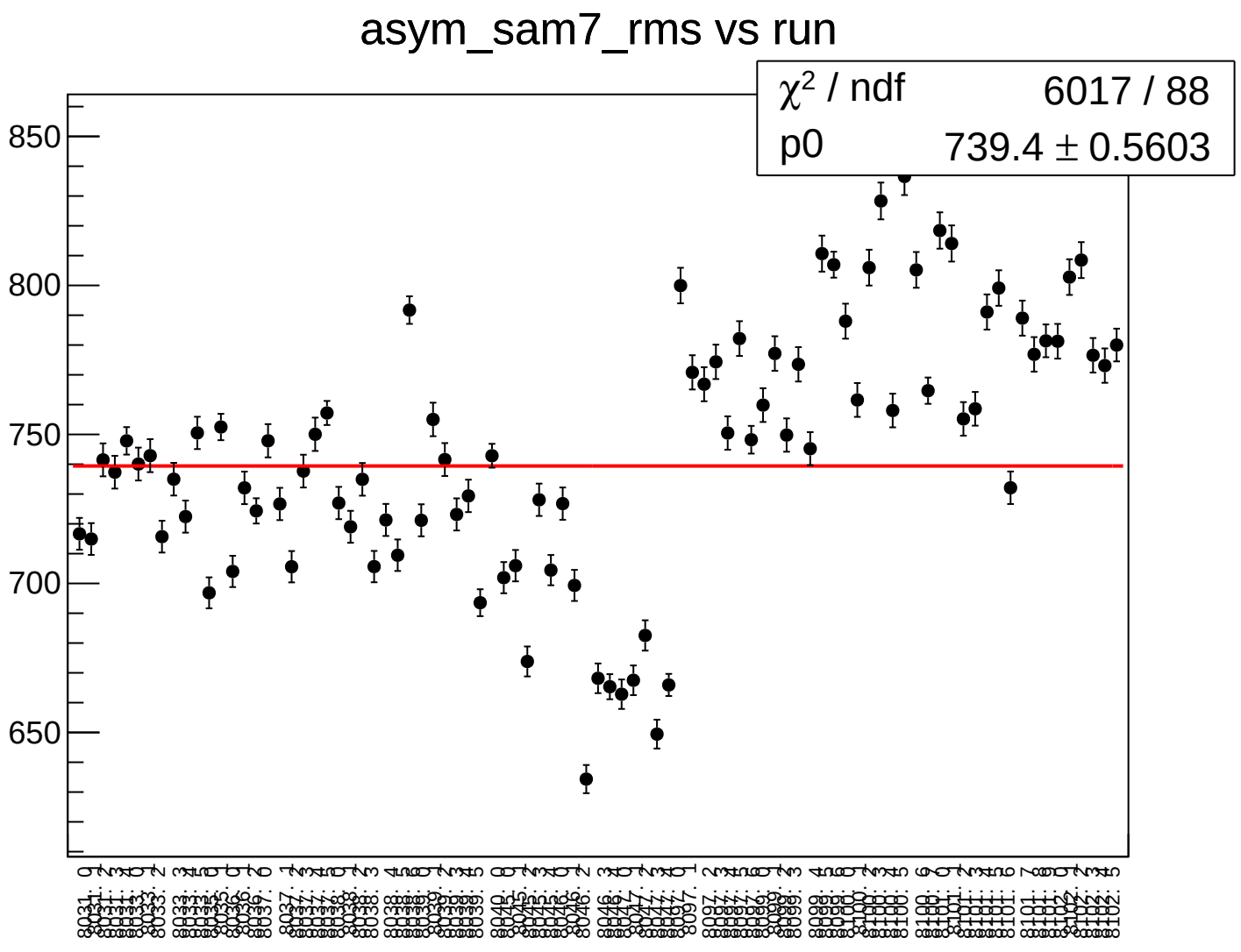

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 83.27 / 88
p0 −762 ± 767.5
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −1456
Std Dev 0
2
1
0
−1
−2
−3

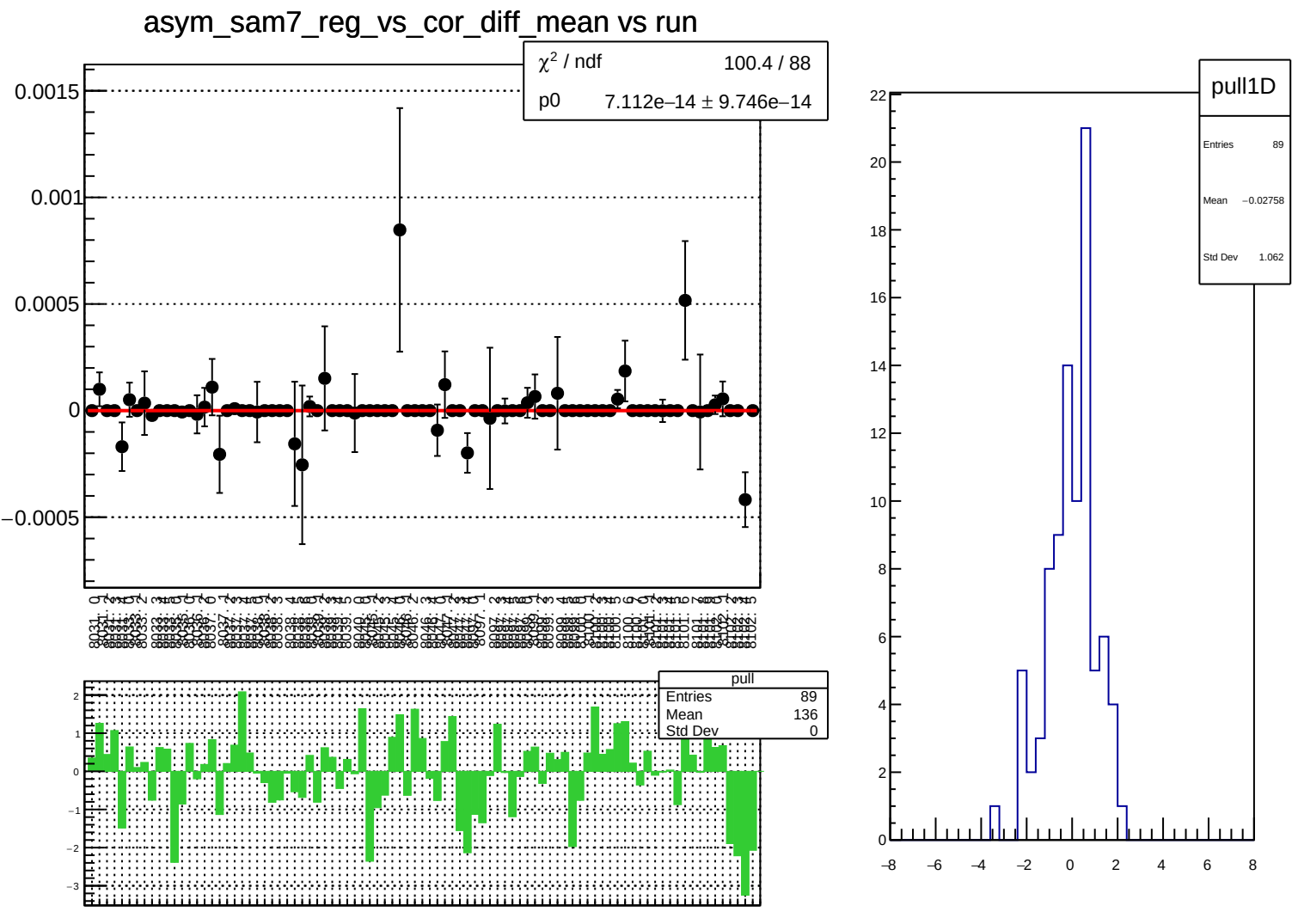

pull1D
Entries 89
Mean −0.001125
Std Dev 0.9673
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

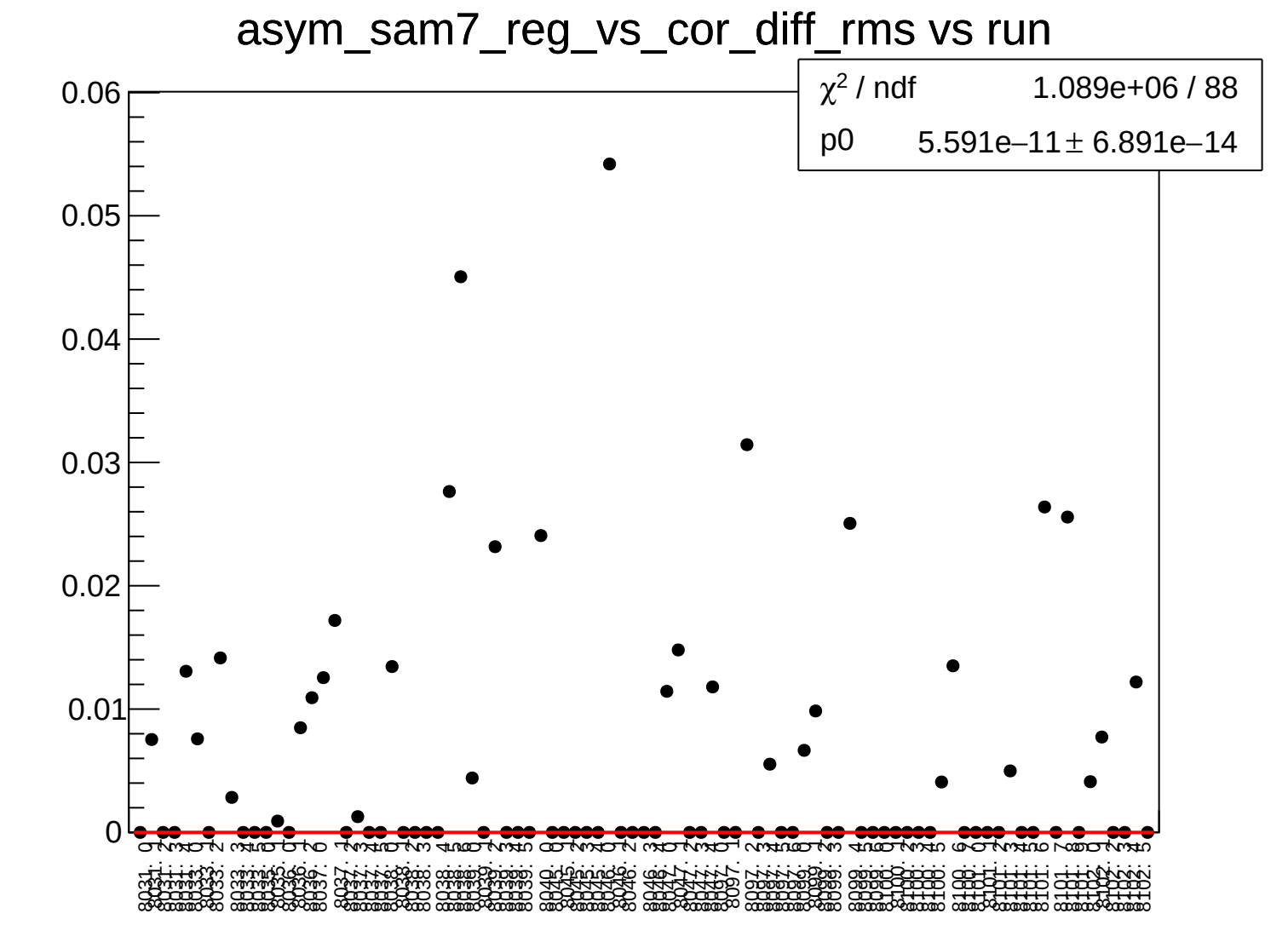

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 7774 / 88
p0 715.8 ± 0.5427
850
800
750
700
650

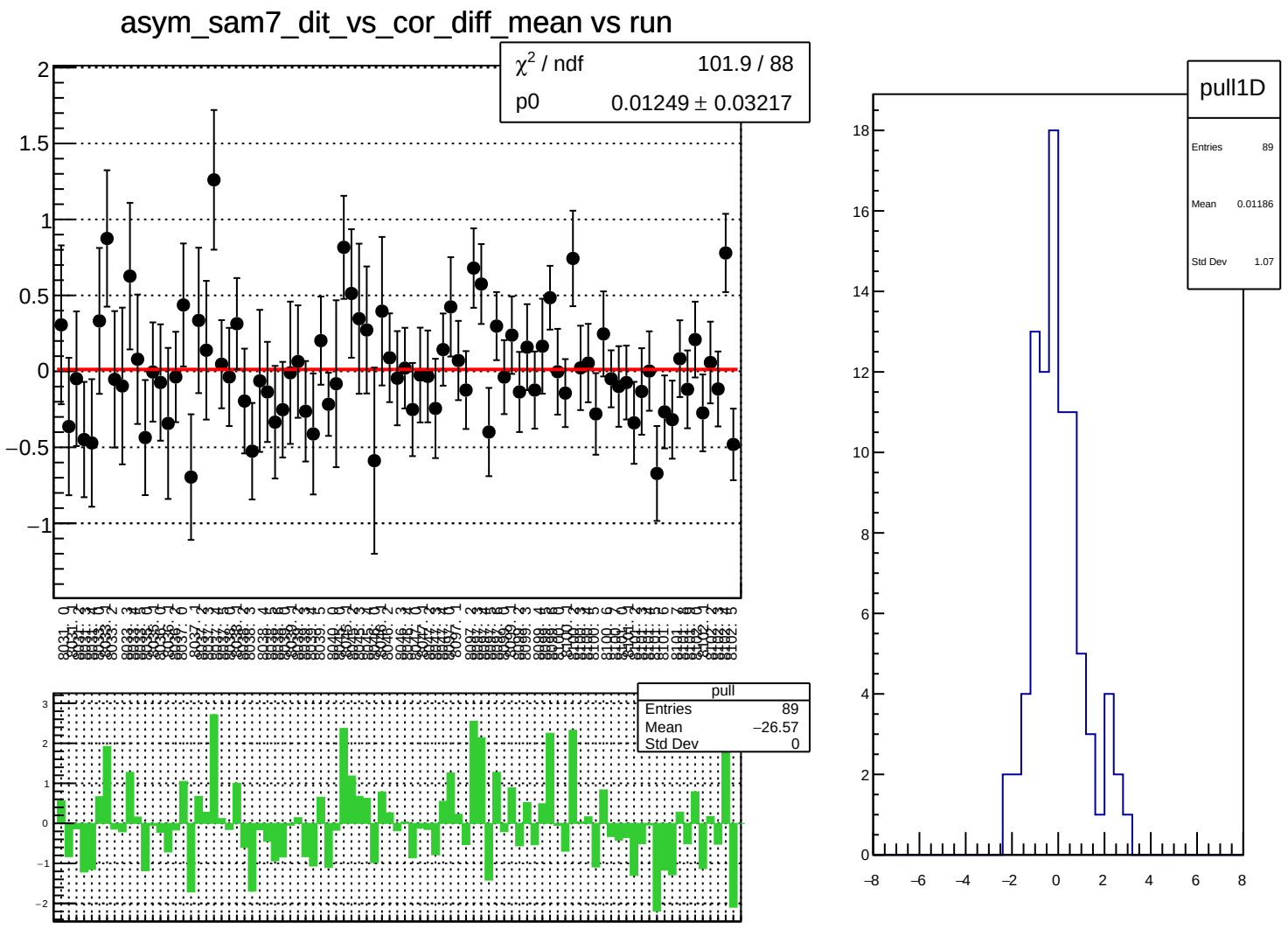

asym_sam7_mean vs run
χ² / ndf 86.13 / 88
p0 604.4 ± 792.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 8892
Std Dev 0
3
2
1
0
−1
−2

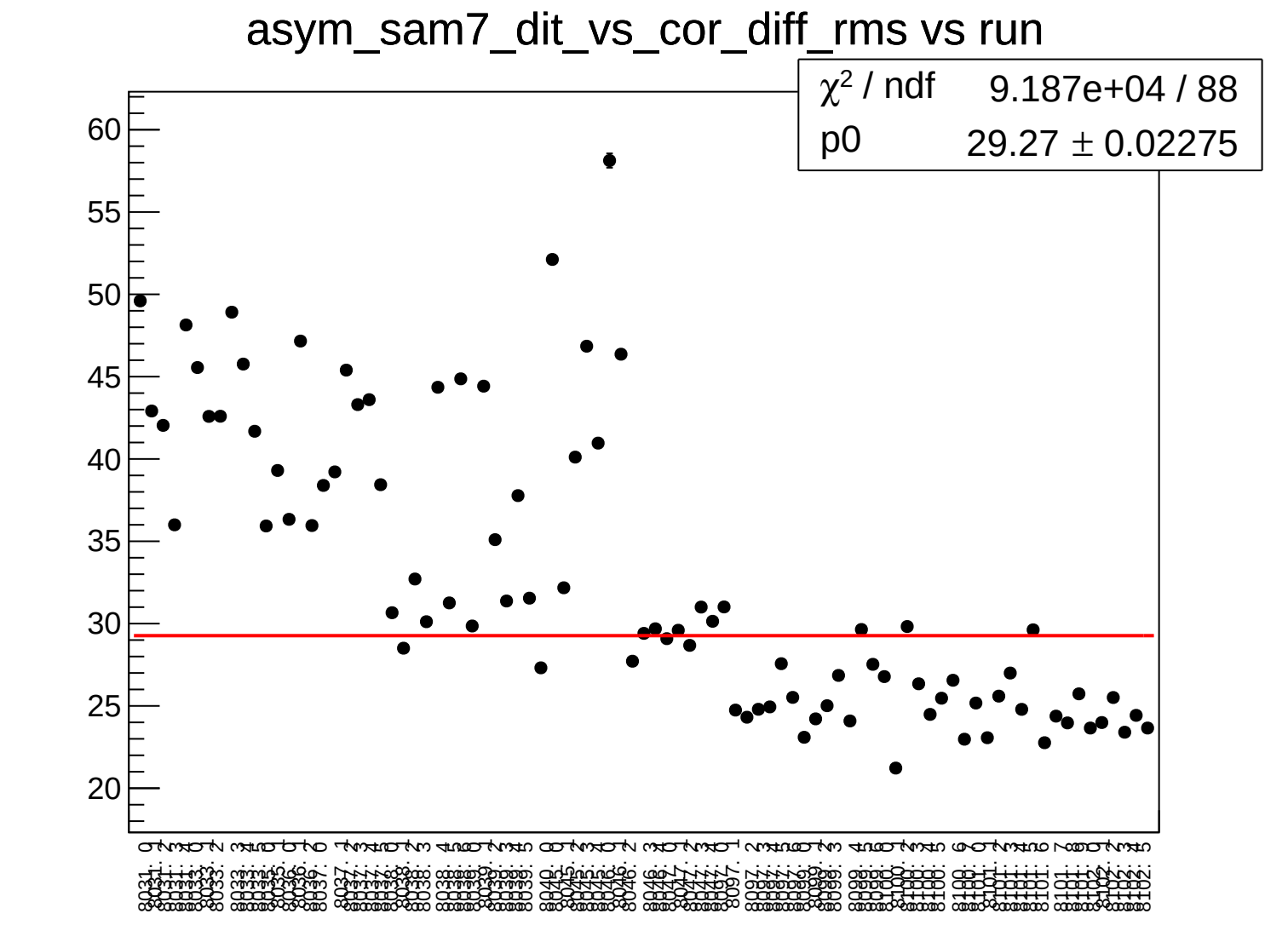

pull1D
Entries 89
Mean −0.000191
Std Dev 0.9837
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

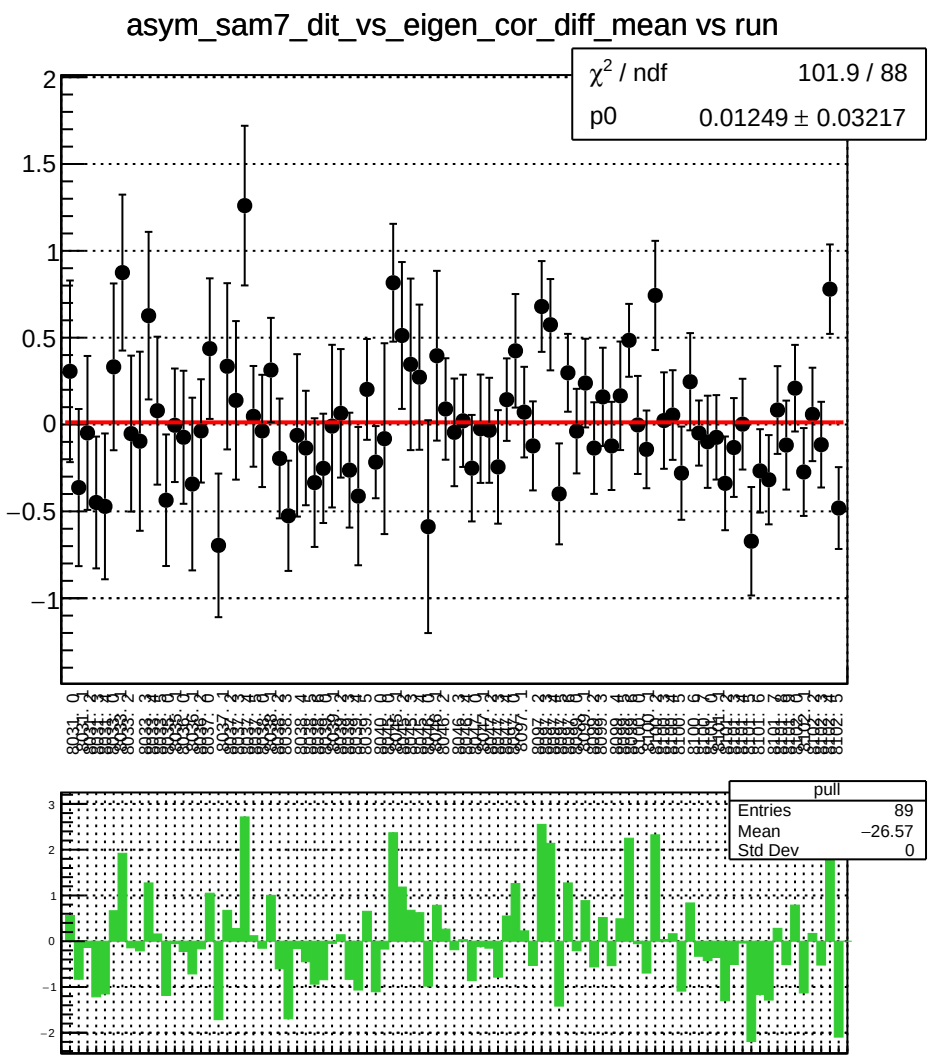

asym_sam7_rms vs run
χ² / ndf 6017 / 88
p0 739.4 ± 0.5603
850
800
750
700
650

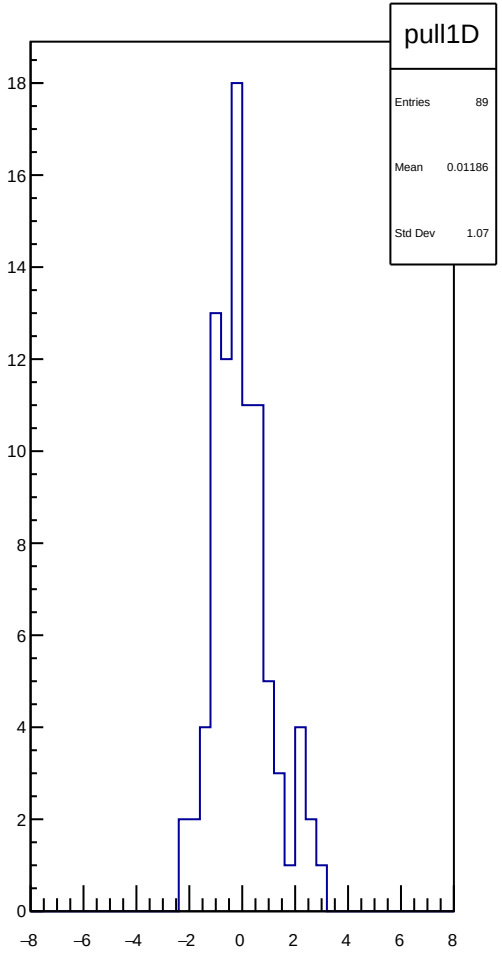

asym_sam7_reg_vs_cor_diff_mean vs run
χ² / ndf 100.4 / 88
p0 7.112e−14 ± 9.746e−14
0.0015
0.001
0.0005
0
−0.0005
pull
Entries 89
Mean 136
Std Dev 0
pull1D
Entries 89
Mean −0.02758
Std Dev 1.062

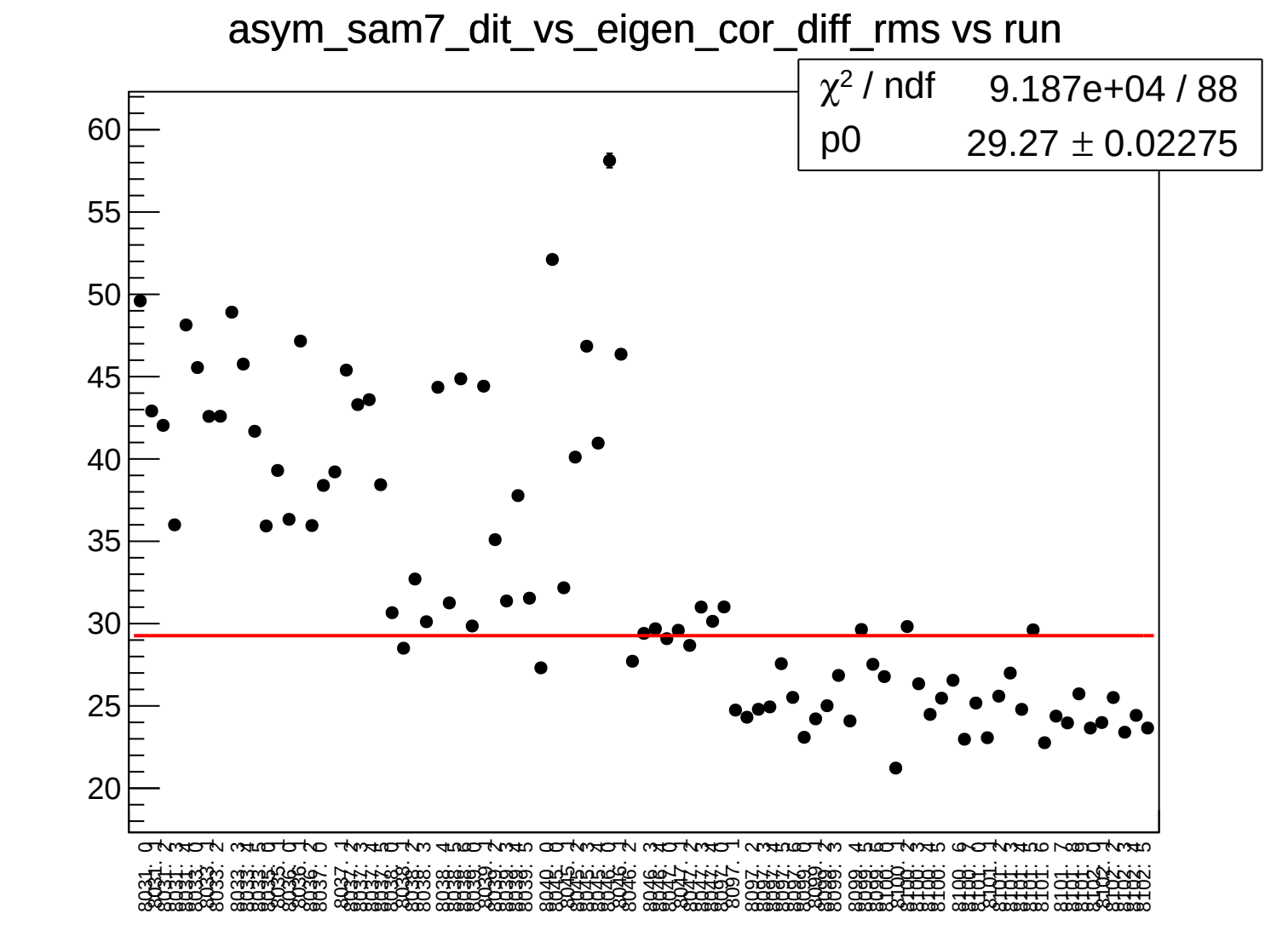

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 1.089e+06 / 88
p0 5.591e−11 ± 6.891e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

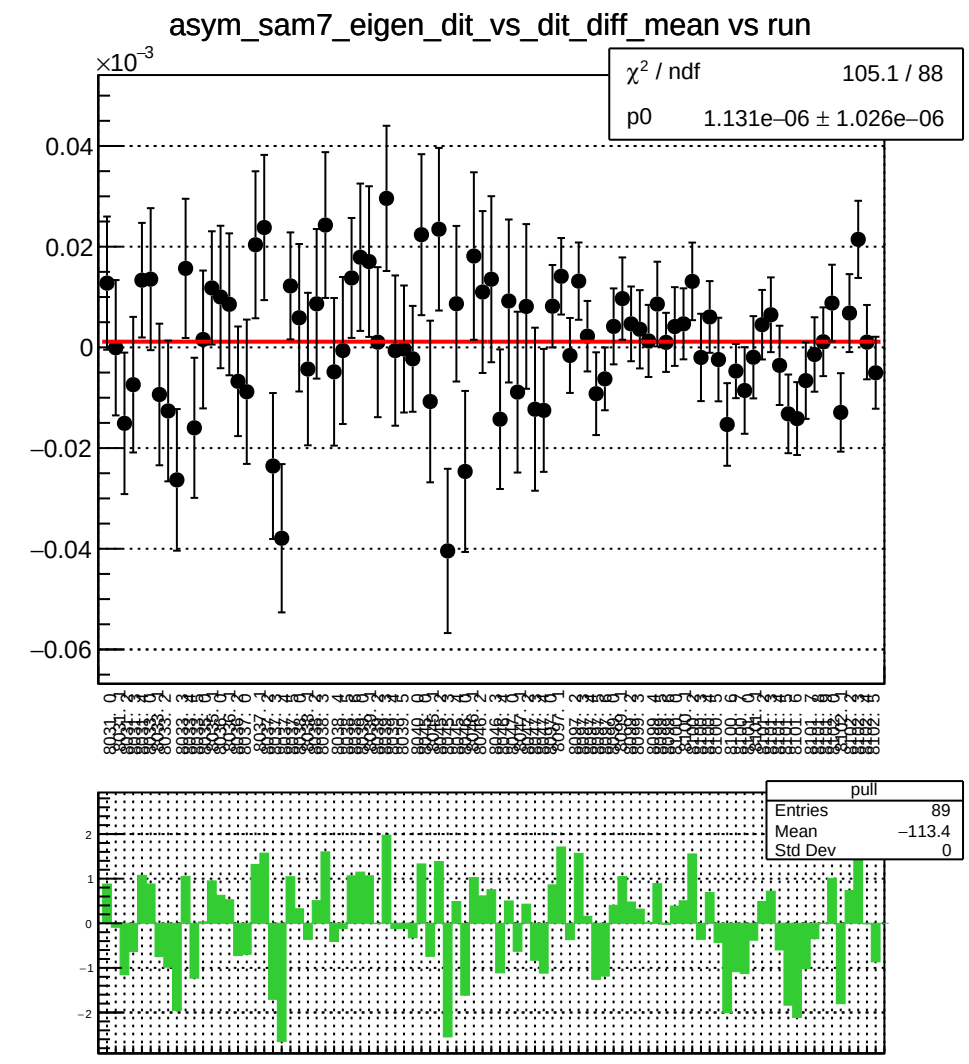

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 101.9 / 88
p0 0.01249 ± 0.03217
pull
Entries 89
Mean −26.57
Std Dev 0
pull1D
Entries 89
Mean 0.01186
Std Dev 1.07

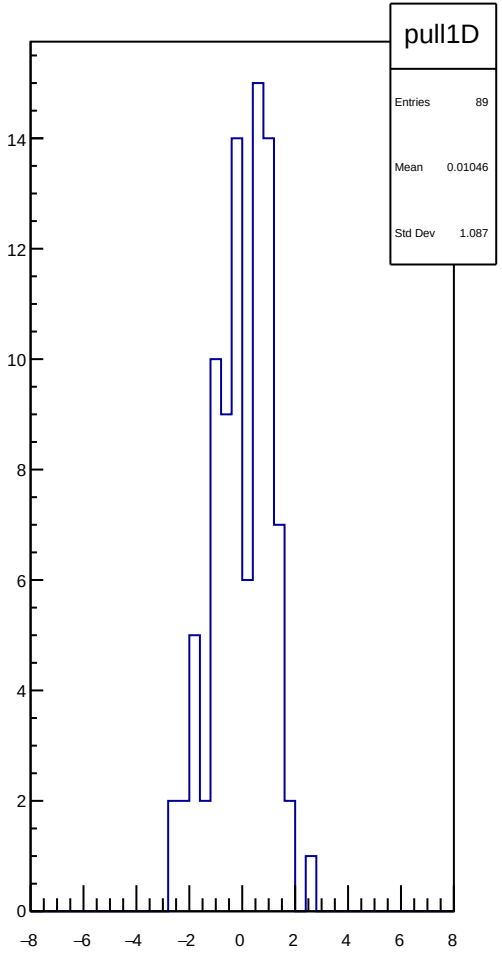

asym_sam7_dit_vs_cor_diff_rms vs run
χ² / ndf 9.187e+04 / 88
p0 29.27 ± 0.02275
60
55
50
45
40
35
30
25
20

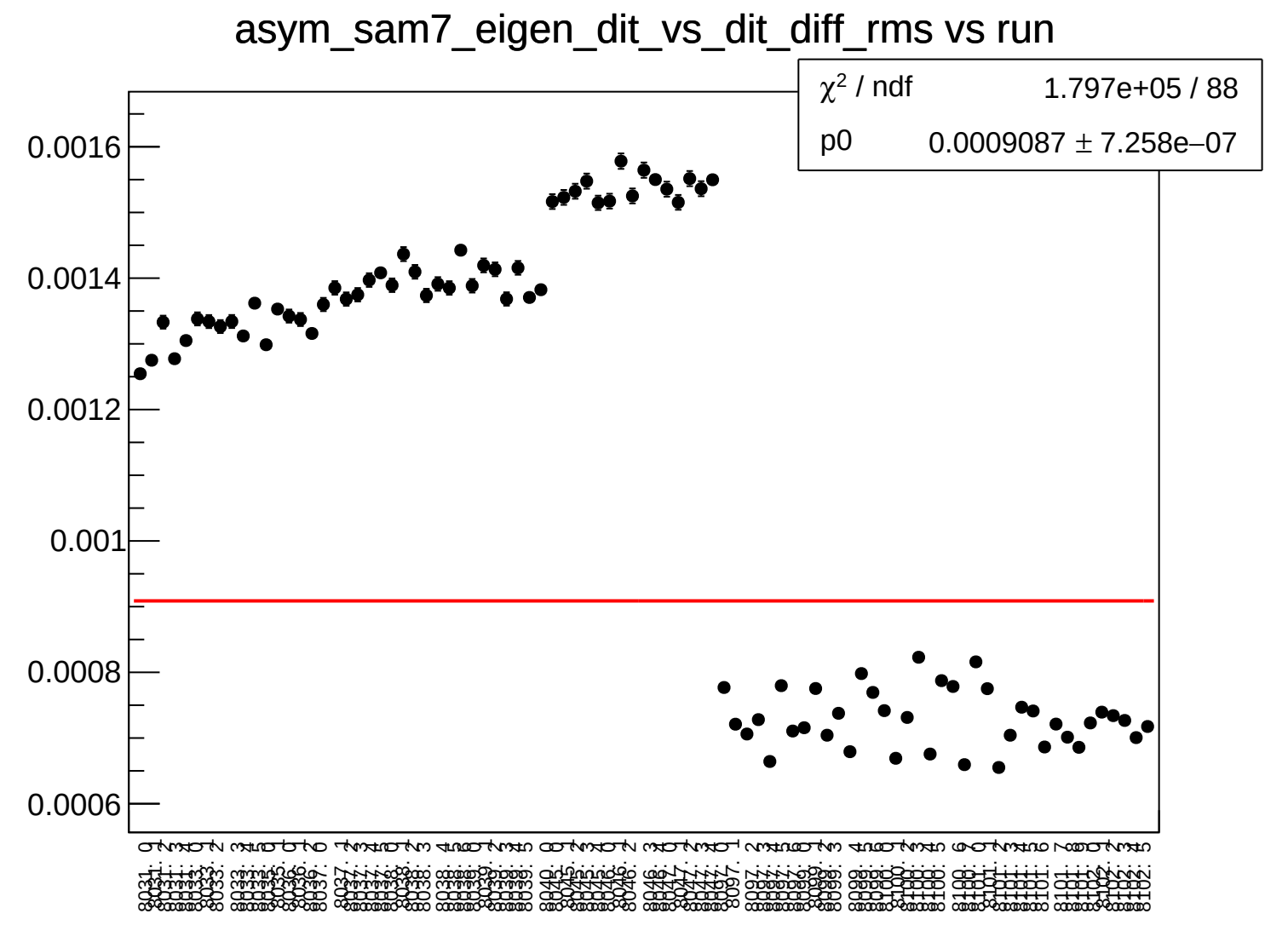

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.9 / 88
p0 0.01249 ± 0.03217
pull
Entries 89
Mean −26.57
Std Dev 0

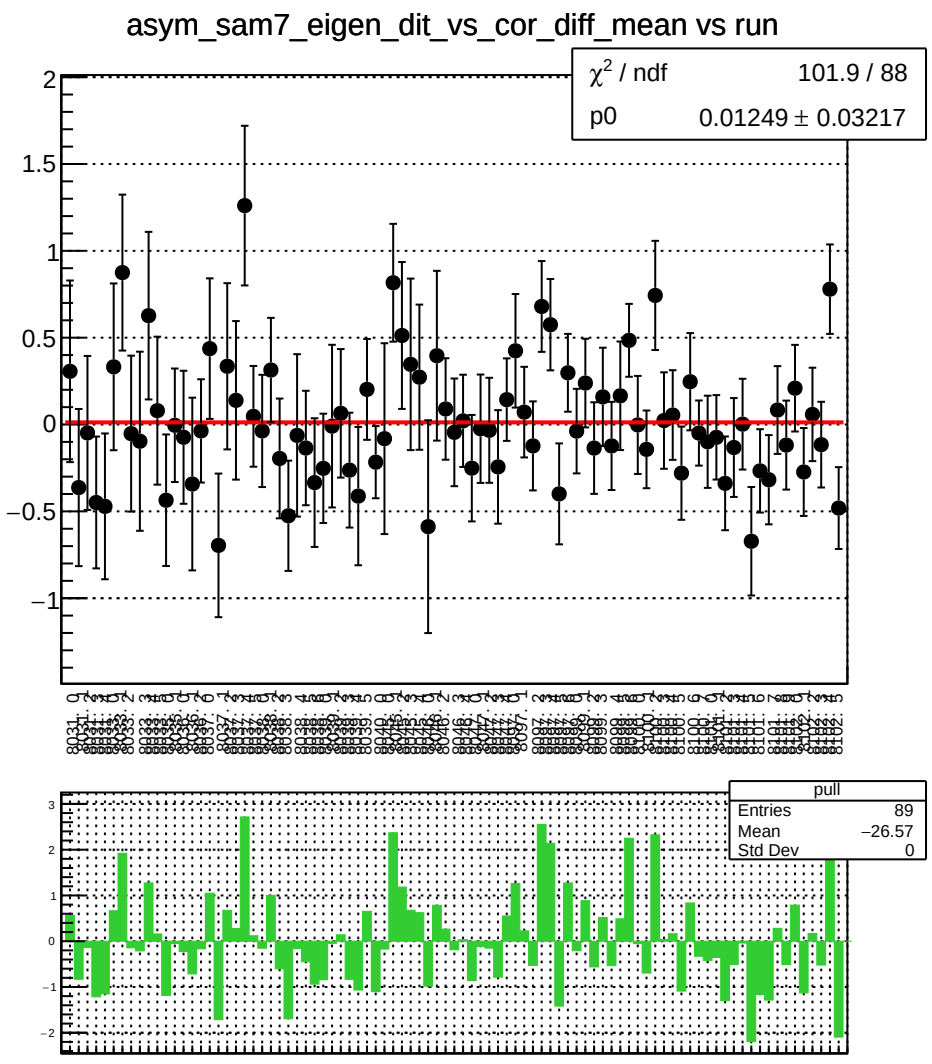

pull1D
Entries 89
Mean 0.01186
Std Dev 1.07

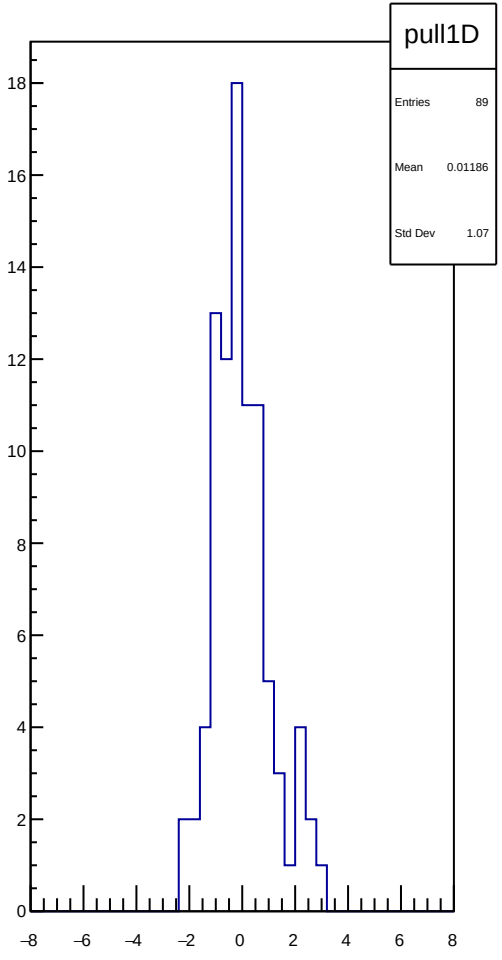

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.187e+04 / 88
p0 29.27 ± 0.02275
60
55
50
45
40
35
30
25
20

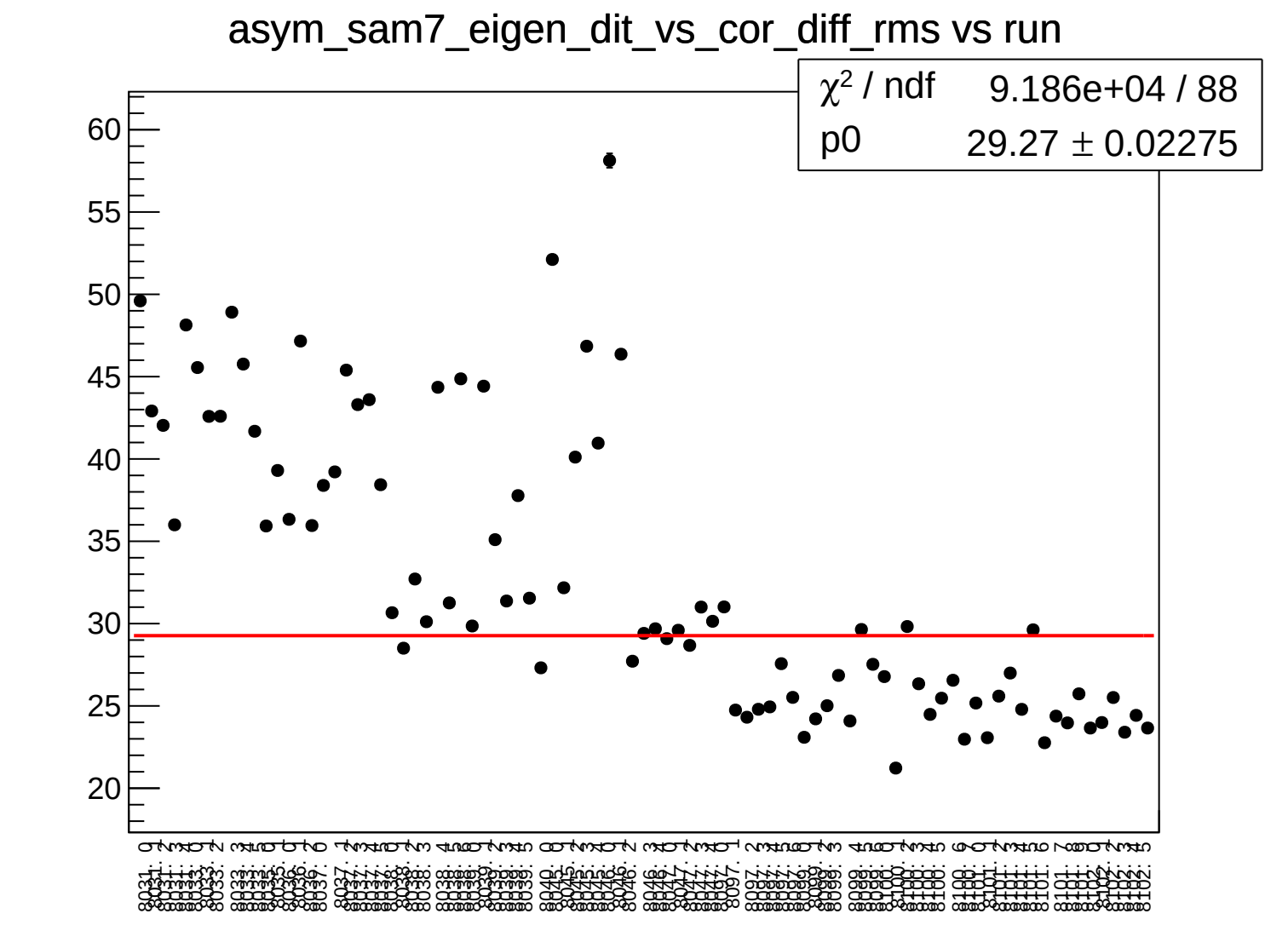

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 105.1 / 88
p0 1.131e−06 ± 1.026e−06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 89
Mean −113.4
Std Dev 0
2
1
0
−1
−2

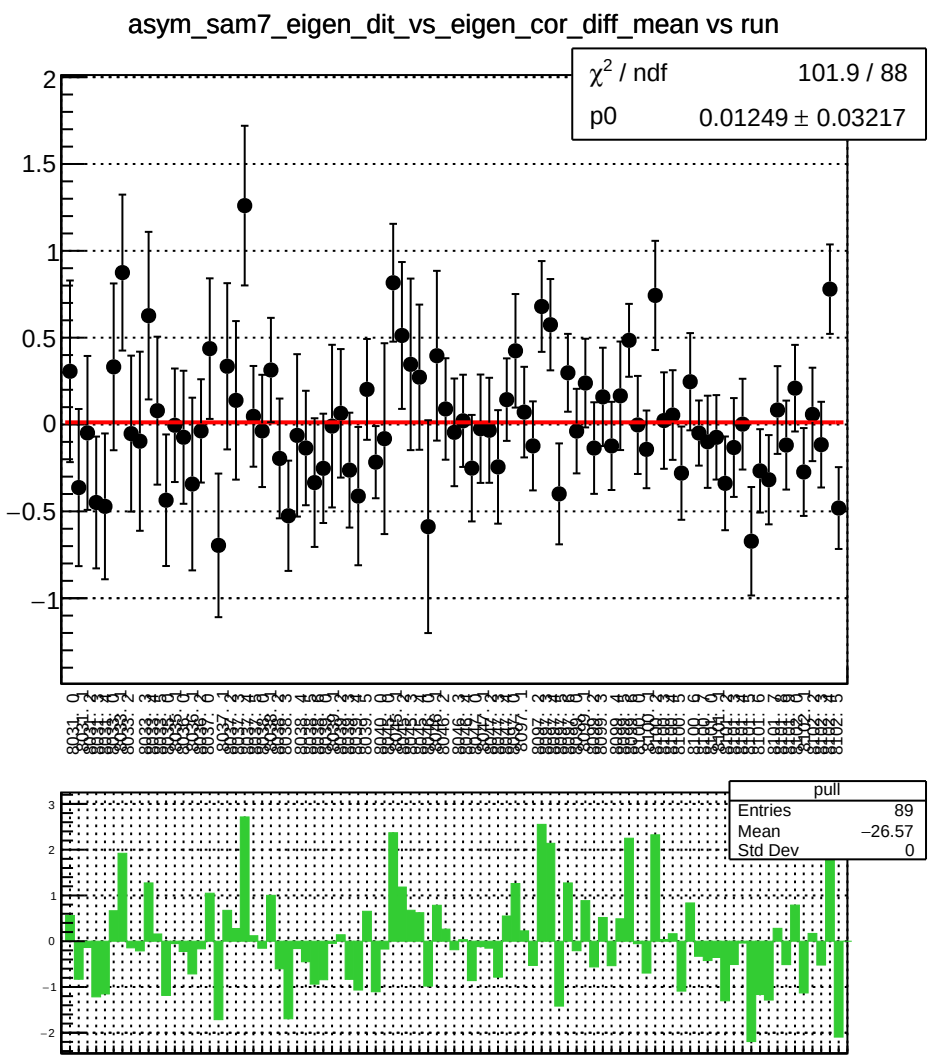

pull1D
Entries 89
Mean 0.01046
Std Dev 1.087
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

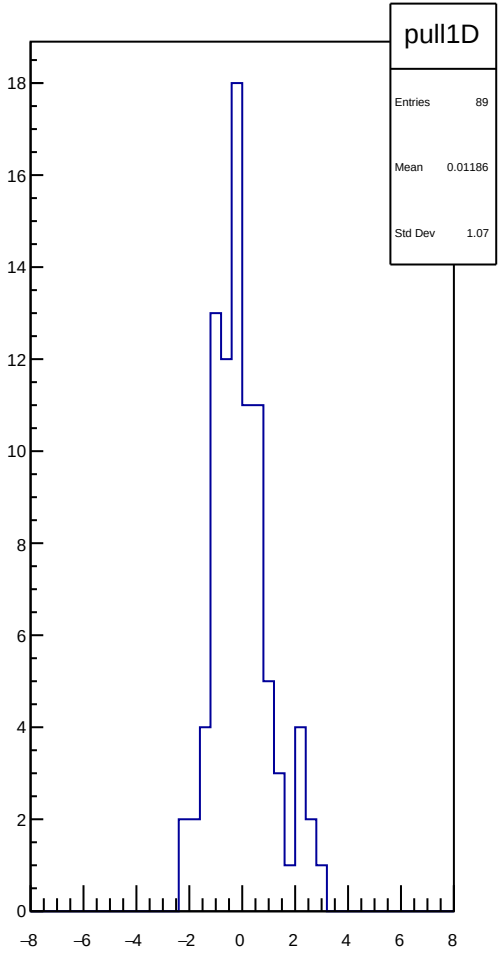

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.797e+05 / 88
p0 0.0009087 ± 7.258e−07
0.0016
0.0014
0.0012
0.001
0.0008
0.0006

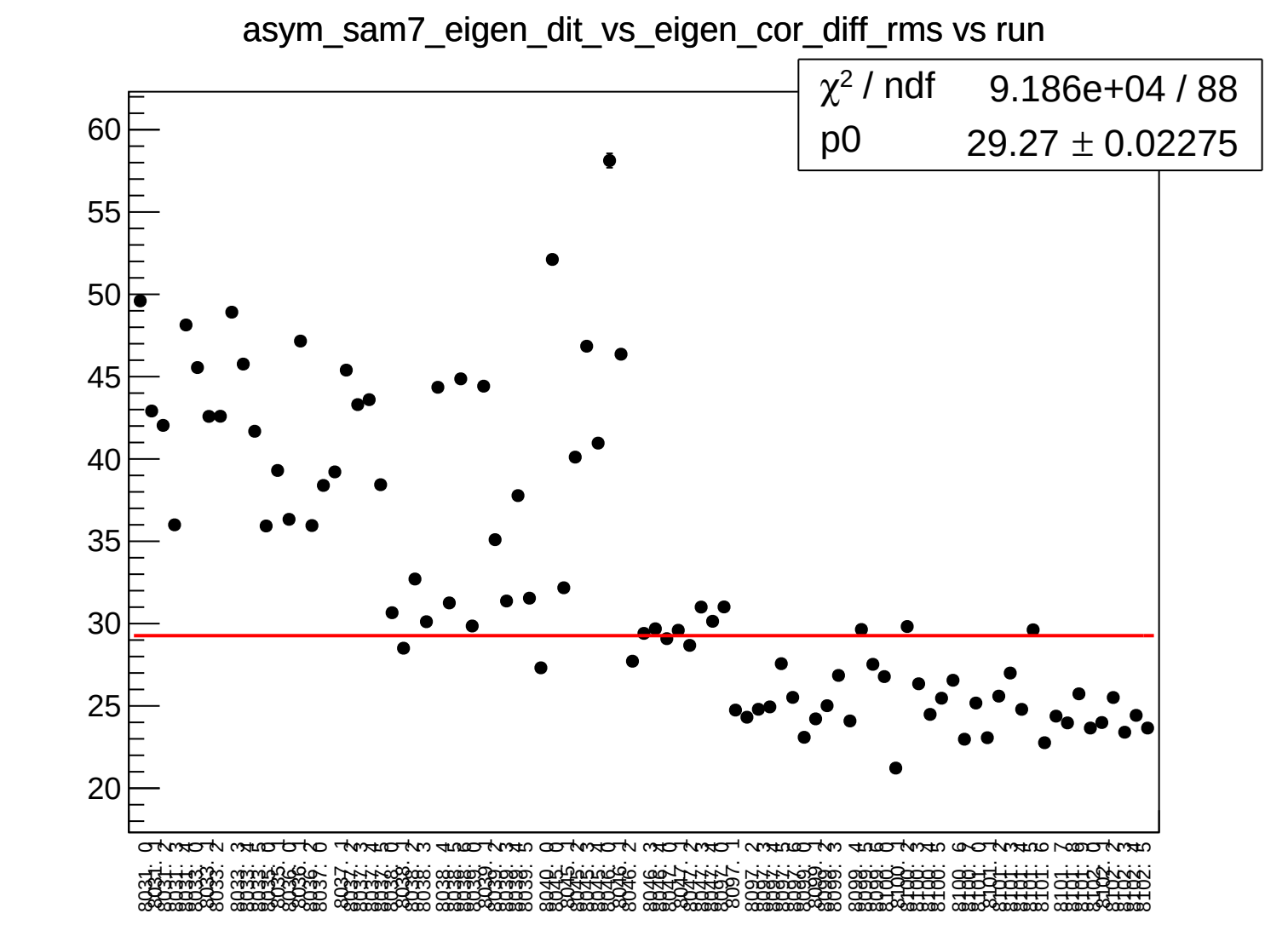

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101.9 / 88
p0 0.01249 ± 0.03217
pull
Entries 89
Mean −26.57
Std Dev 0

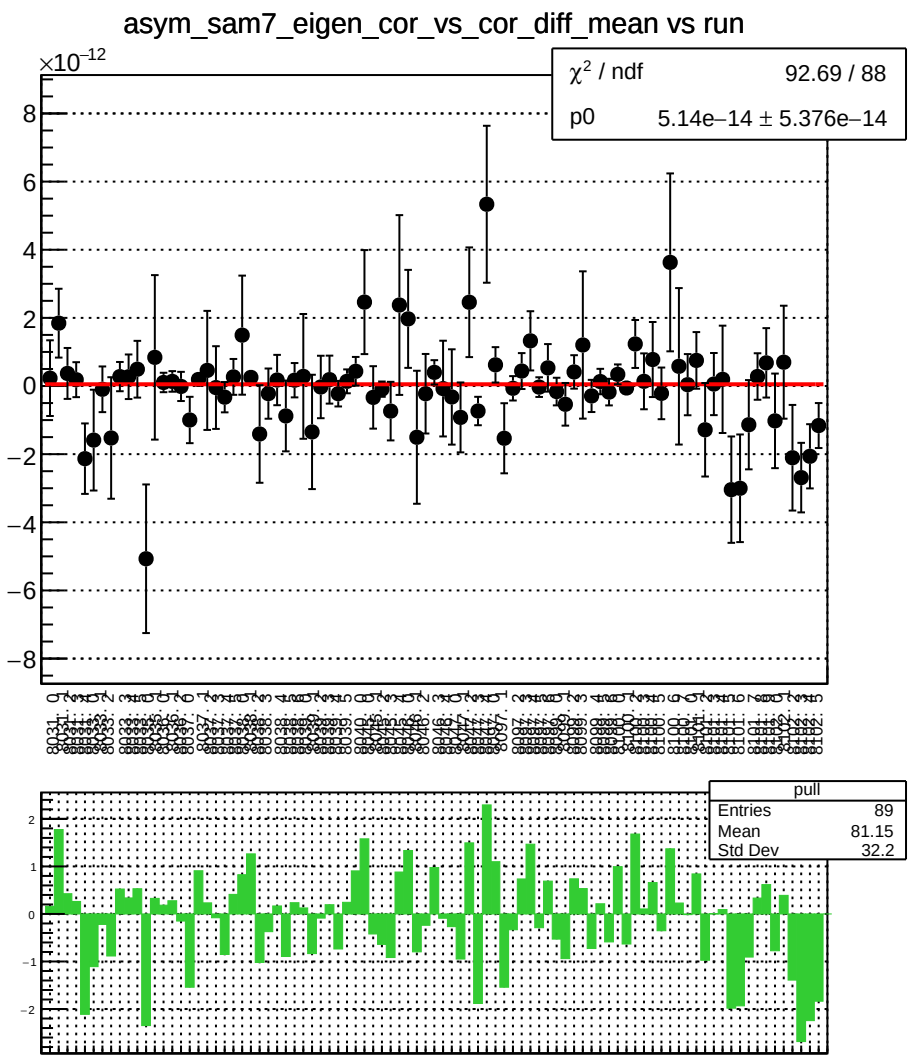

pull1D
Entries 89
Mean 0.01186
Std Dev 1.07

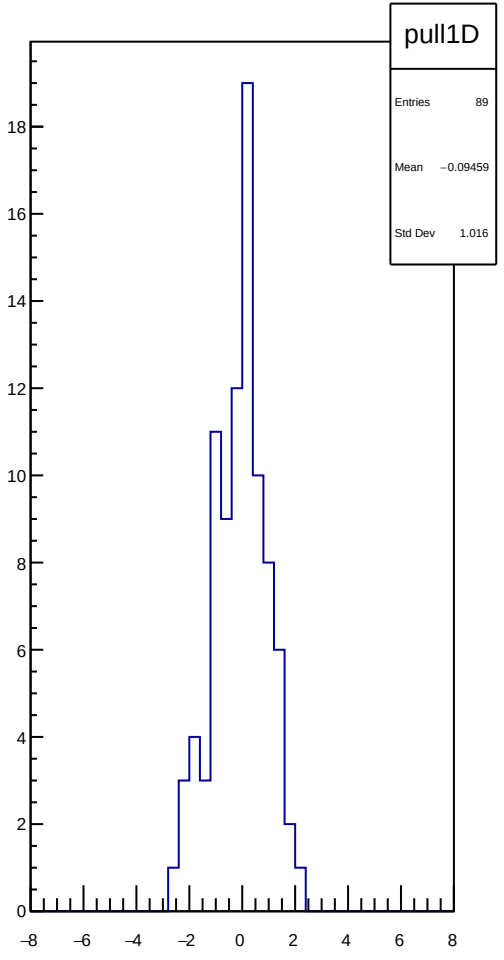

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.186e+04 / 88
p0 29.27 ± 0.02275
60
55
50
45
40
35
30
25
20

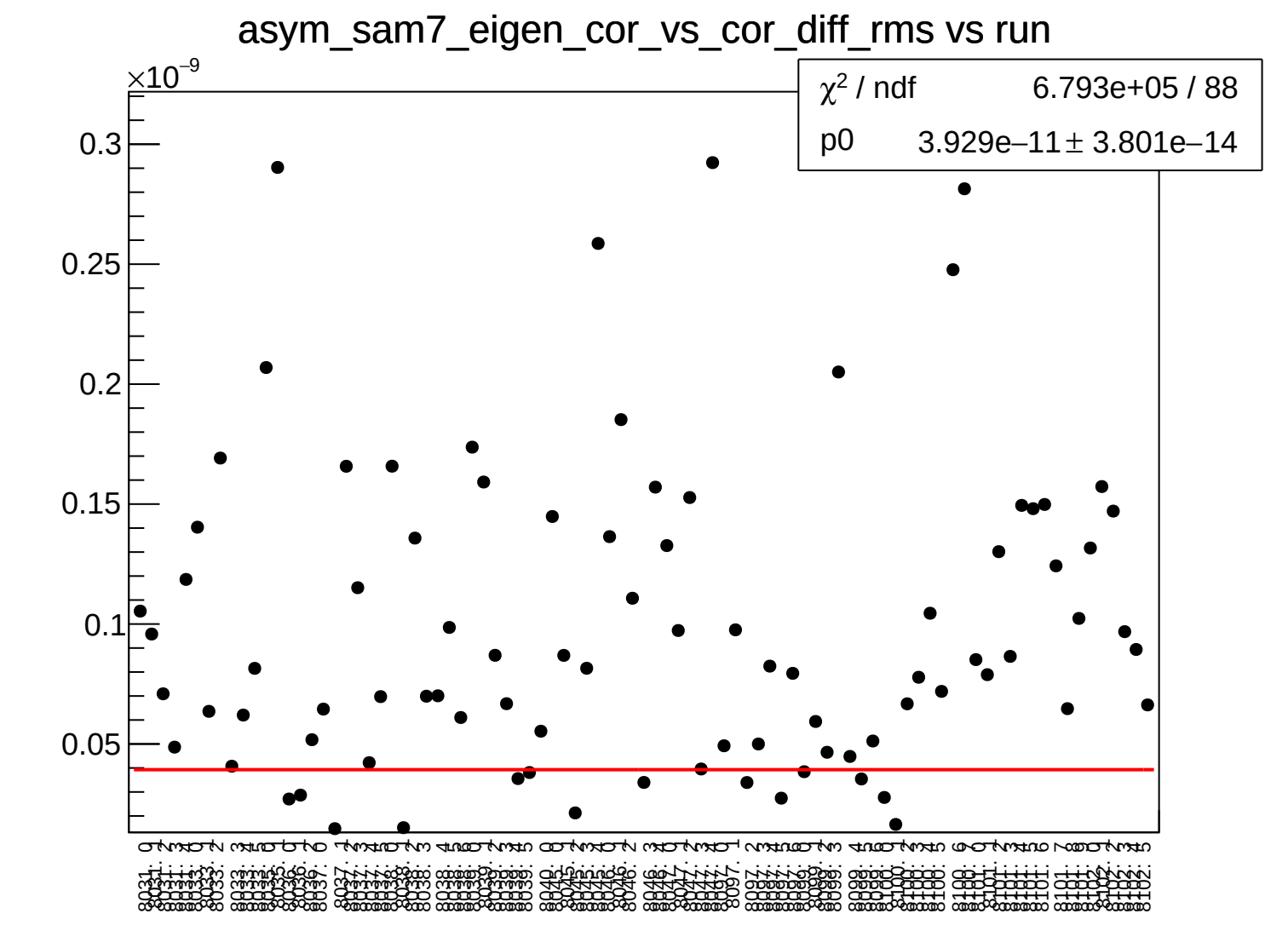

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.9 / 88
p0 0.01249 ± 0.03217
pull
Entries 89
Mean −26.57
Std Dev 0

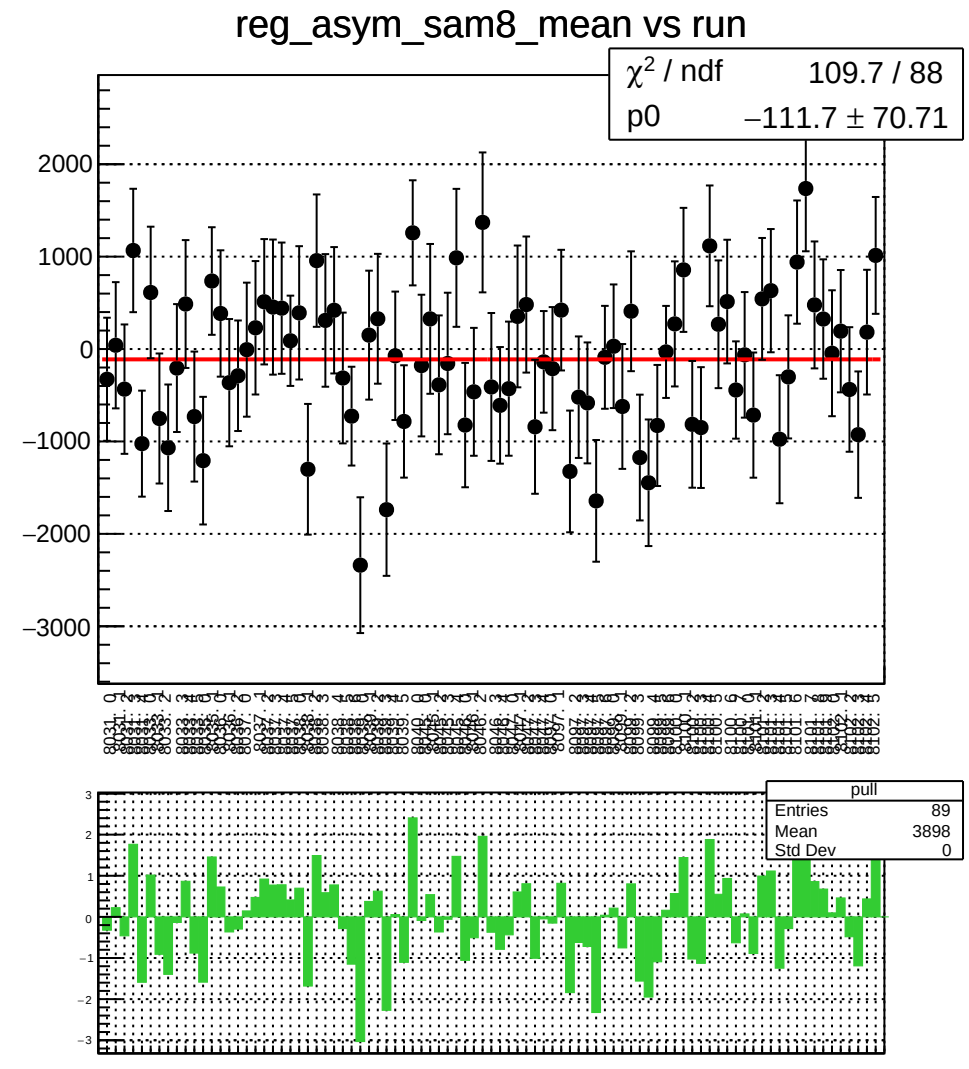

pull1D
Entries 89
Mean 0.01186
Std Dev 1.07

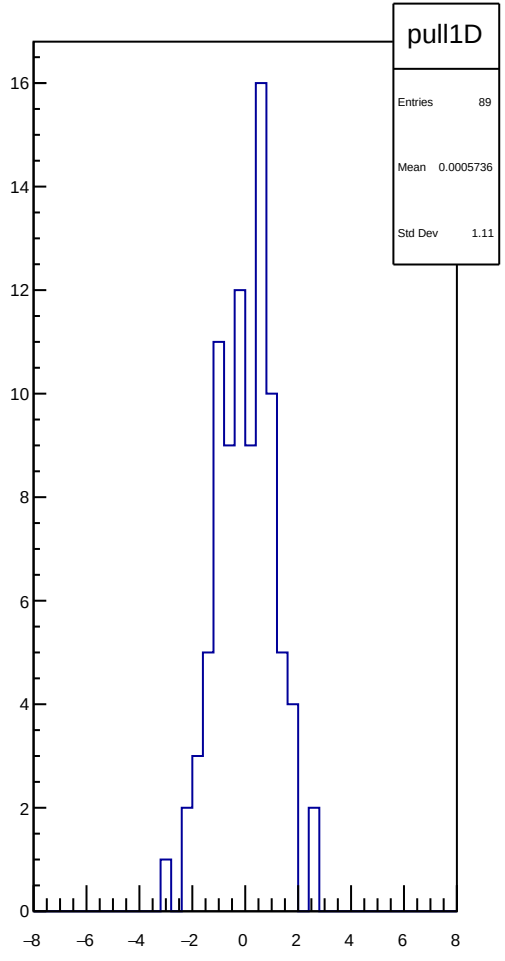

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.186e+04 / 88
p0 29.27 ± 0.02275
60
55
50
45
40
35
30
25
20

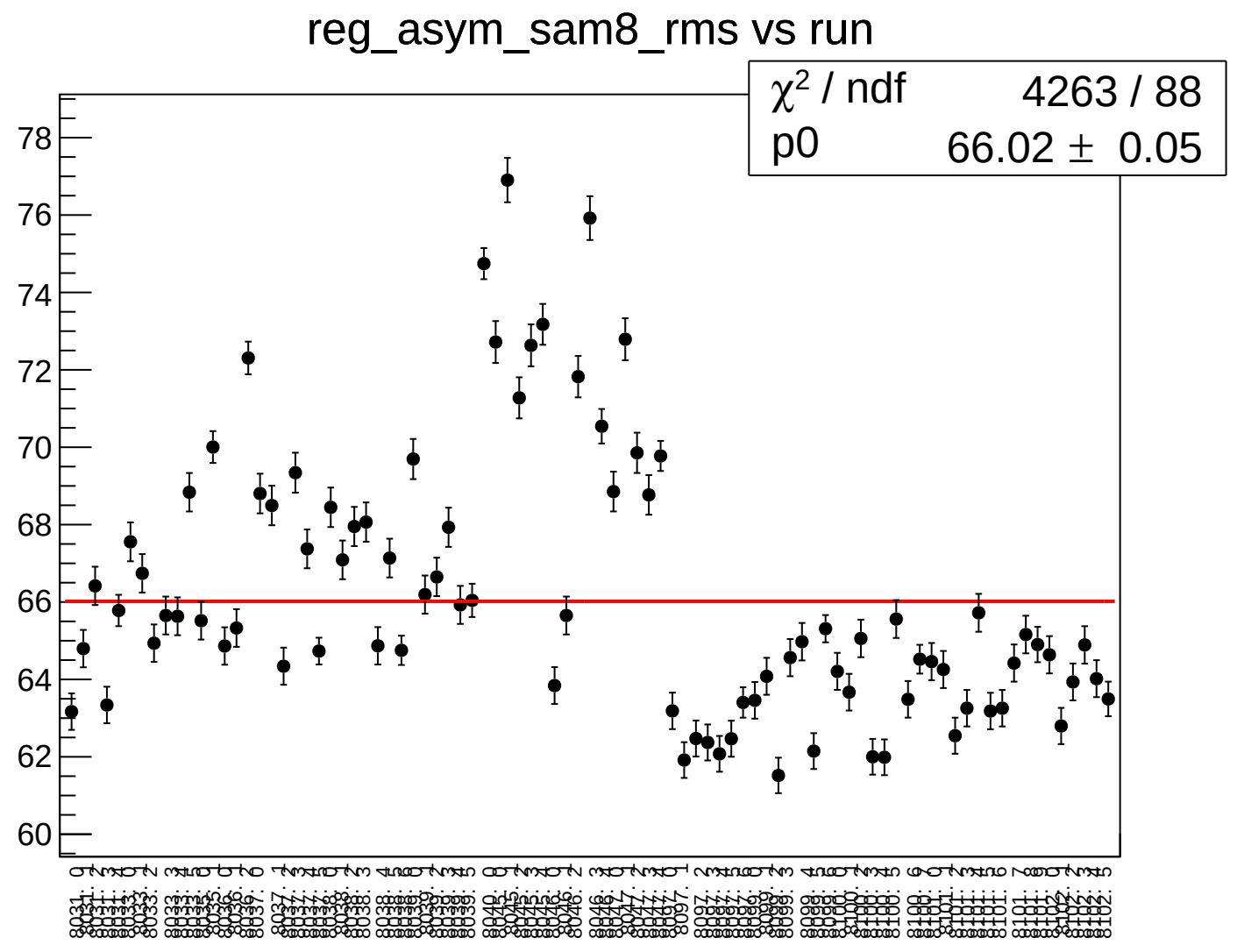

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.69 / 88
p0 5.14e−14 ± 5.376e−14
pull
Entries 89
Mean 81.15
Std Dev 32.2

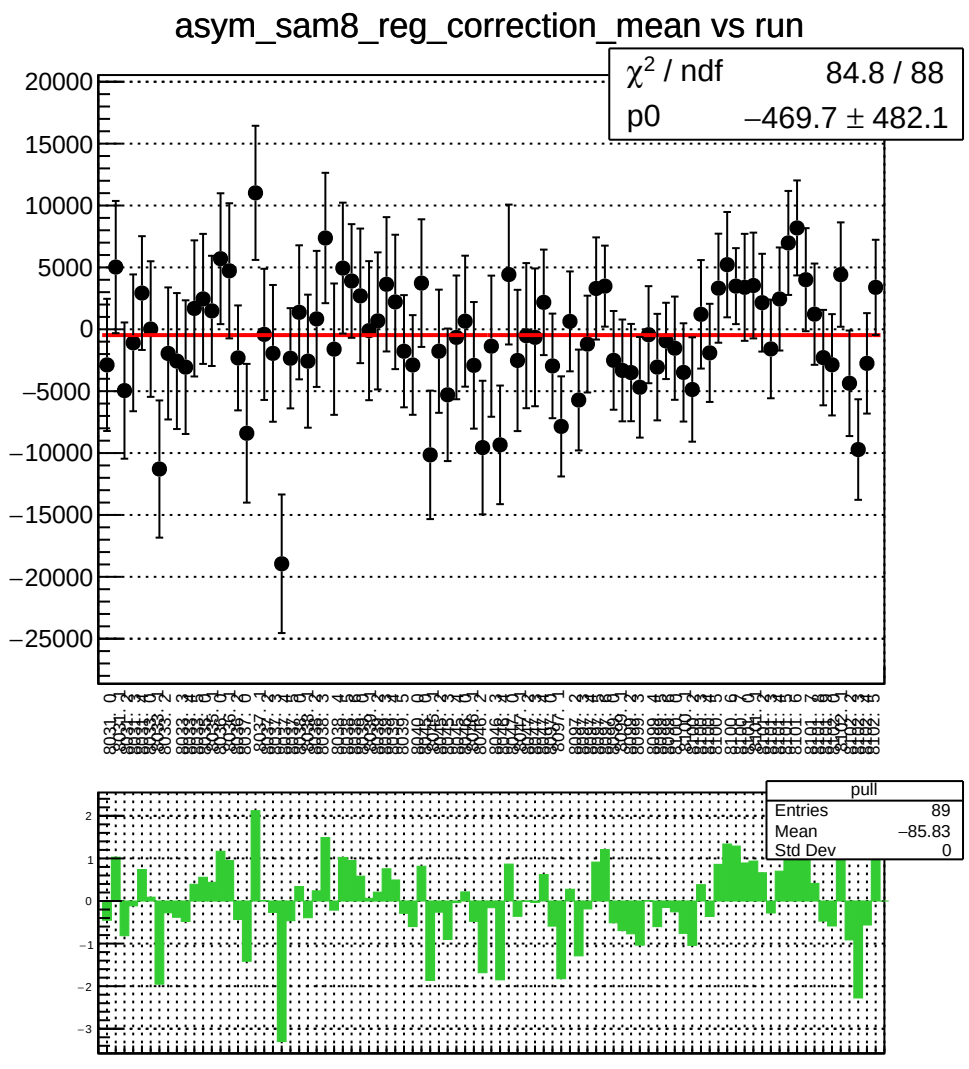

pull1D
Entries 89
Mean −0.09459
Std Dev 1.016

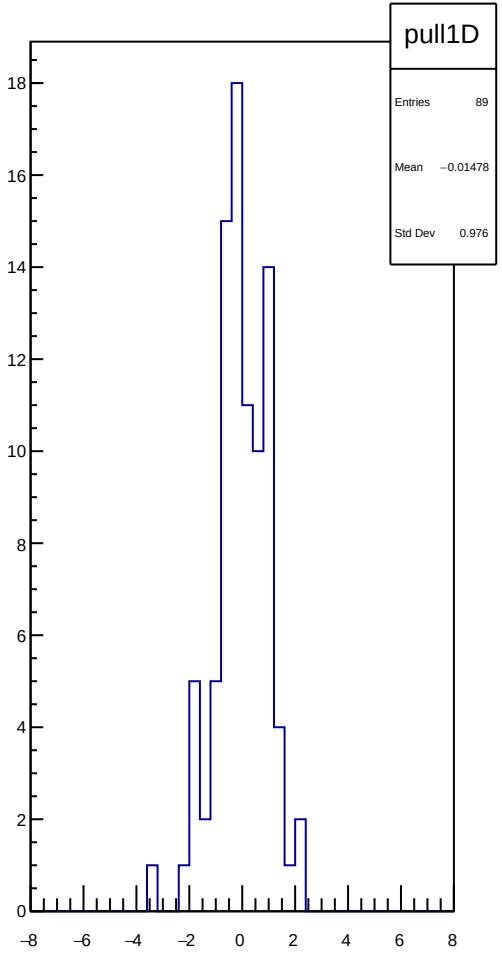

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.793e+05 / 88
p0 3.929e−11 ± 3.801e−14
0.3
0.25
0.2
0.15
0.1
0.05

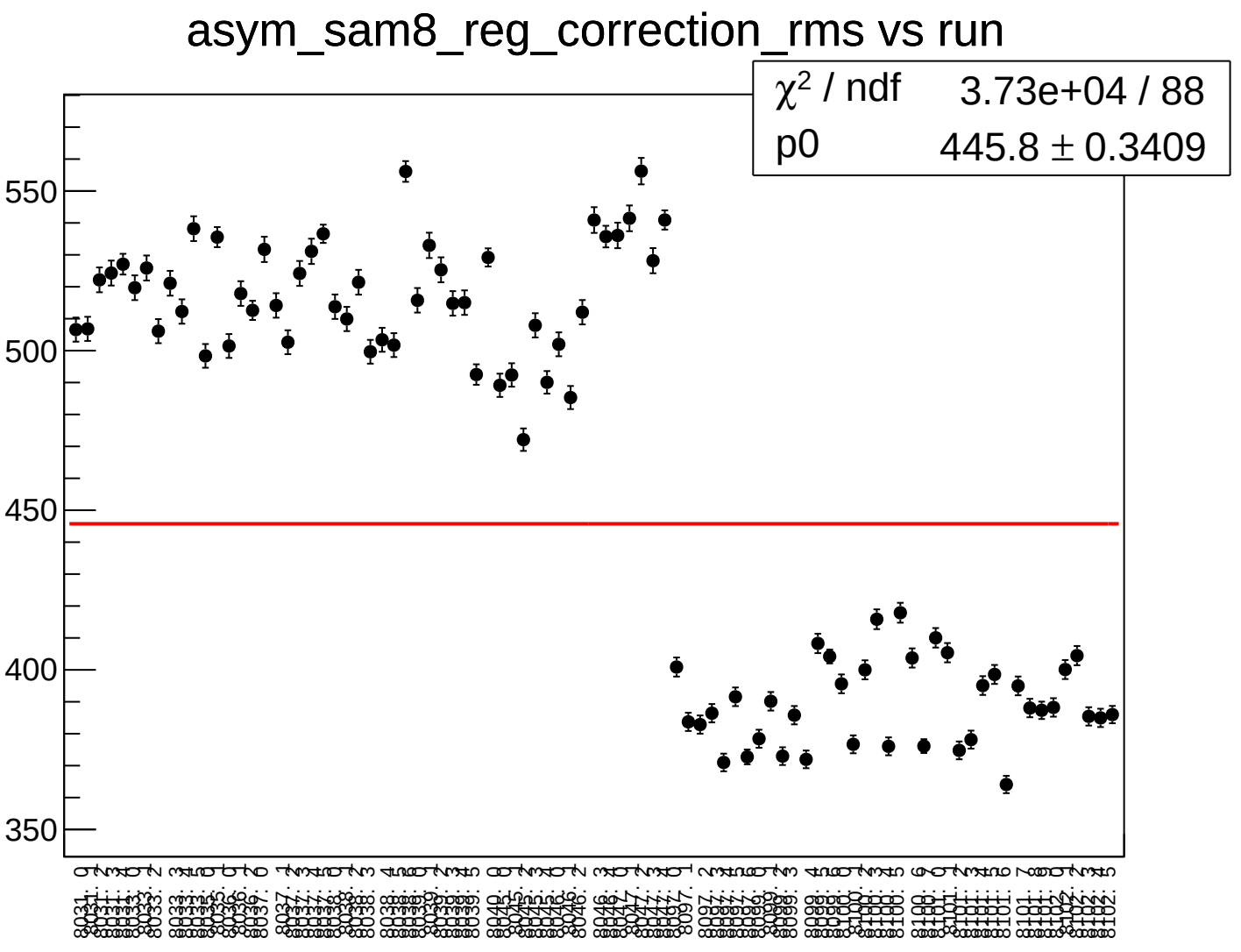

reg_asym_sam8_mean vs run
$\chi^2$ / ndf 109.7 / 88
p0 −111.7 ± 70.71
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean 3898
Std Dev 0
3
2
1
0
−1
−2
−3

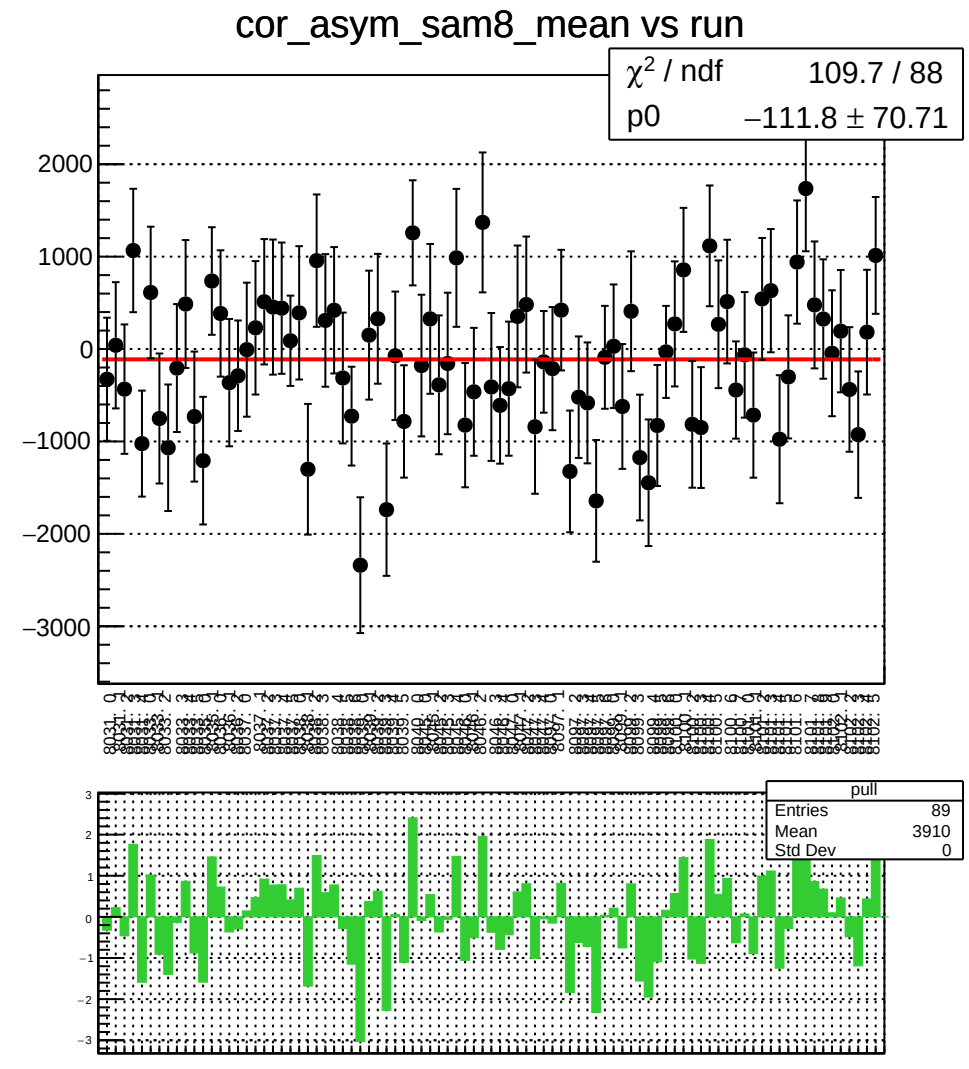

pull1D
Entries 89
Mean 0.0005736
Std Dev 1.11
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

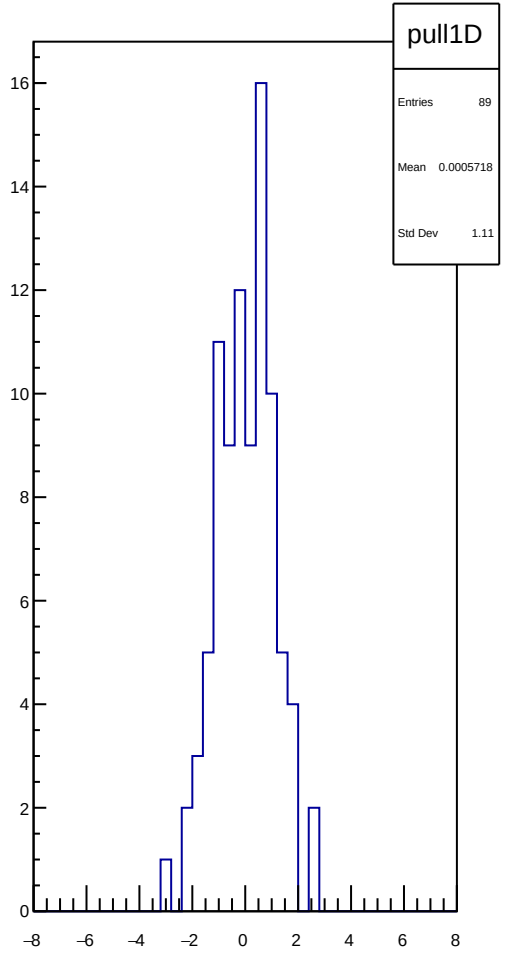

reg_asym_sam8_rms vs run
χ² / ndf 4263 / 88
p0 66.02 ± 0.05
78
76
74
72
70
68
66
64
62
60

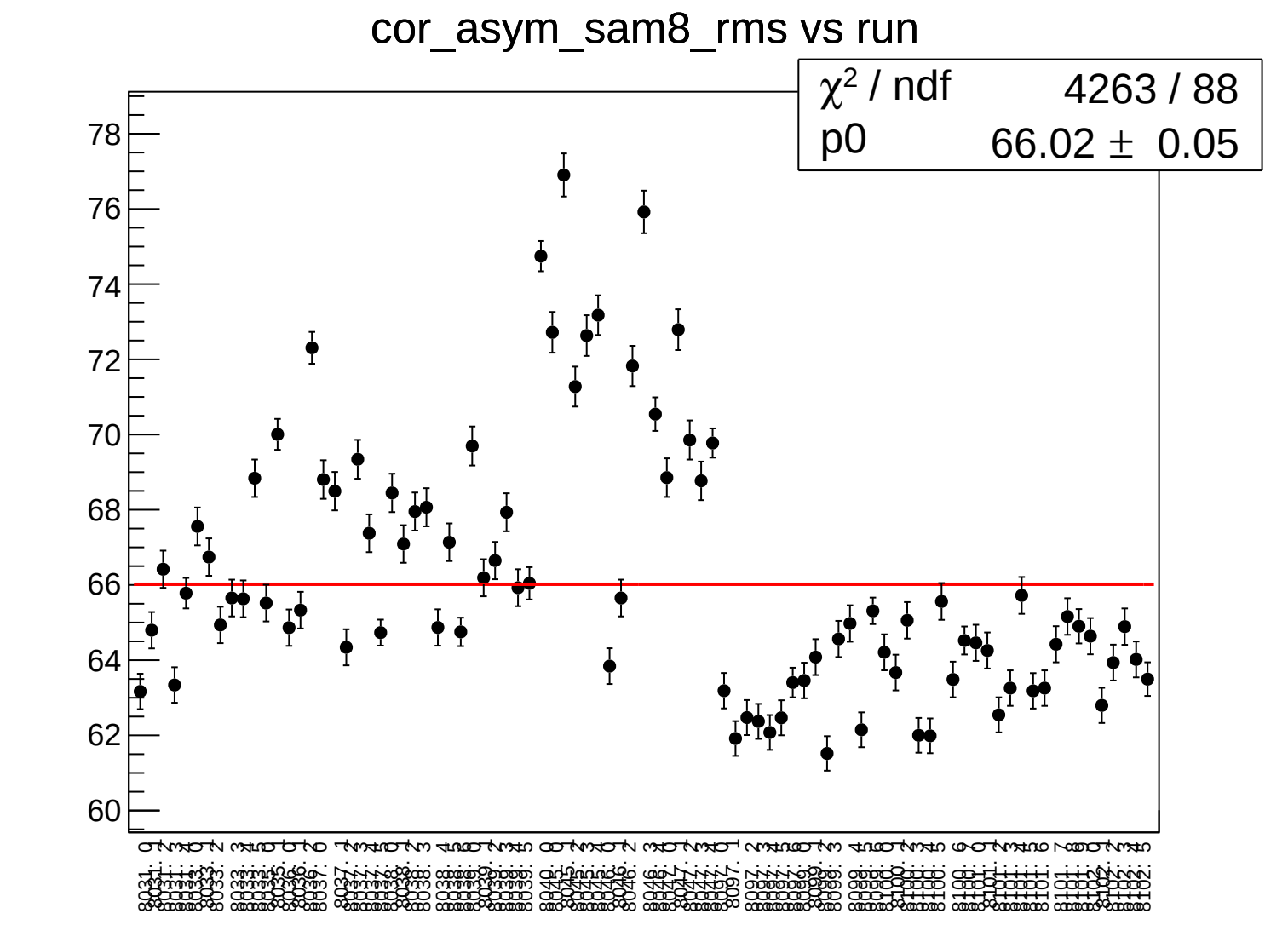

asym_sam8_reg_correction_mean vs run
χ² / ndf 84.8 / 88
p0 −469.7 ± 482.1
pull
Entries 89
Mean −85.83
Std Dev 0

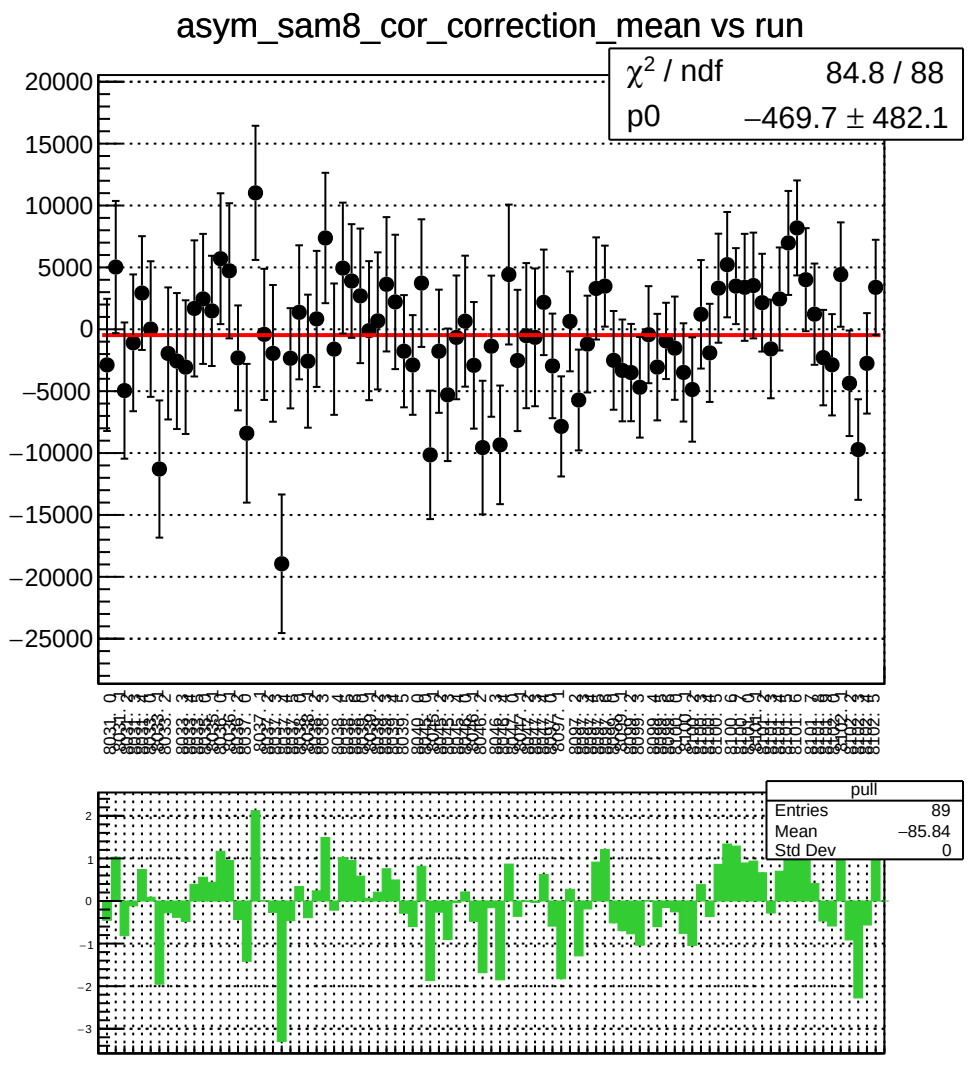

pull1D
Entries 89
Mean −0.01478
Std Dev 0.976

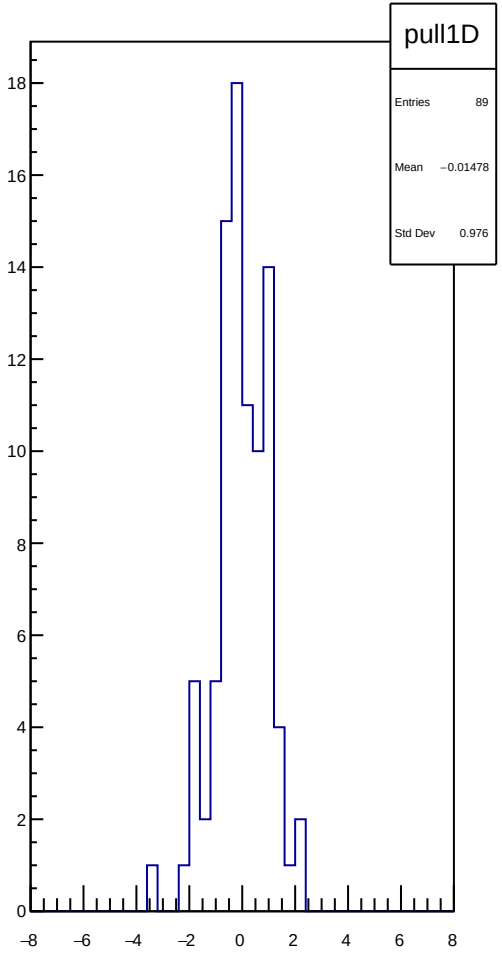

asym_sam8_reg_correction_rms vs run
χ² / ndf 3.73e+04 / 88
p0 445.8 ± 0.3409
550
500
450
400
350

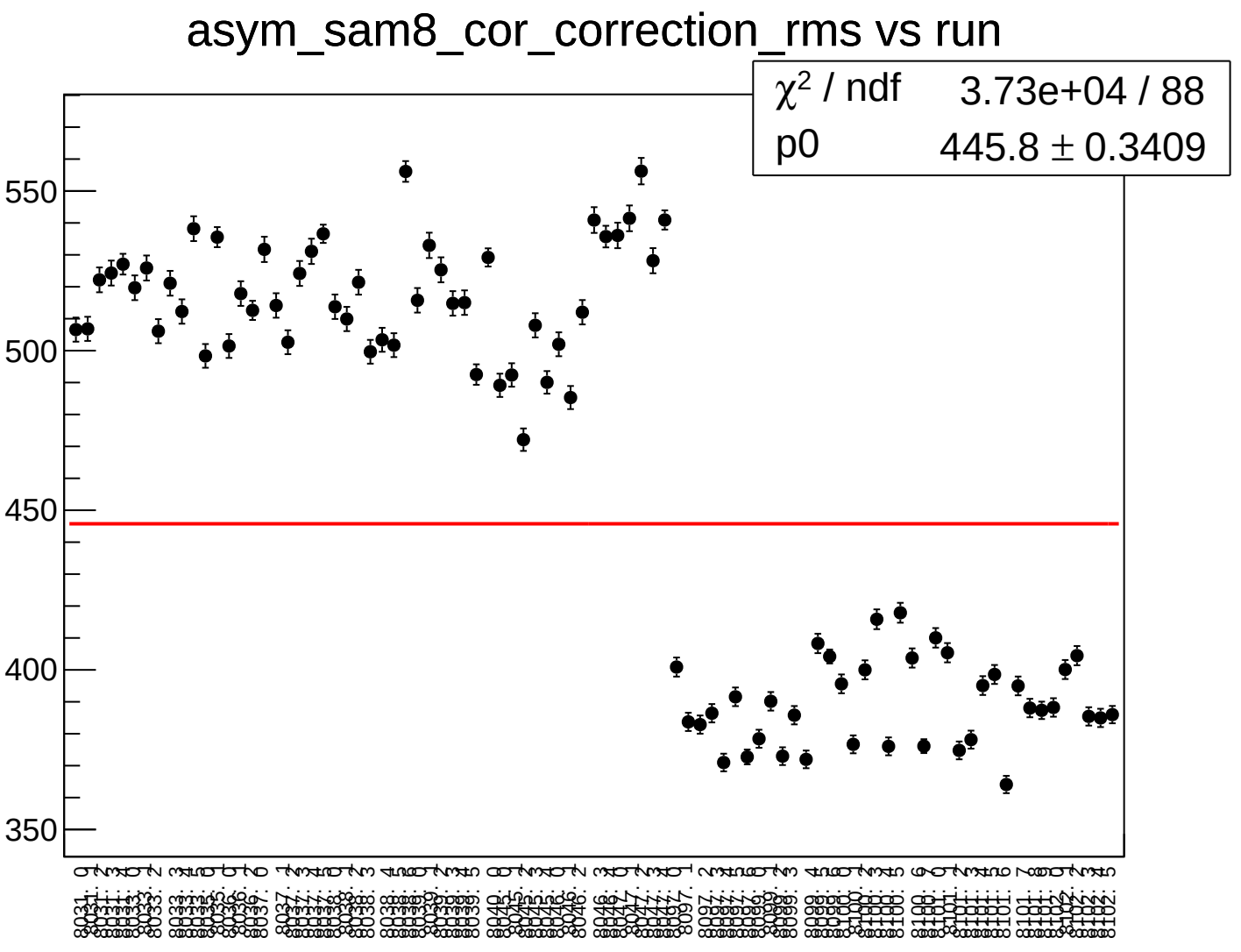

cor_asym_sam8_mean vs run
χ² / ndf 109.7 / 88
p0 −111.8 ± 70.71
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean 3910
Std Dev 0
3
2
1
0
−1
−2
−3

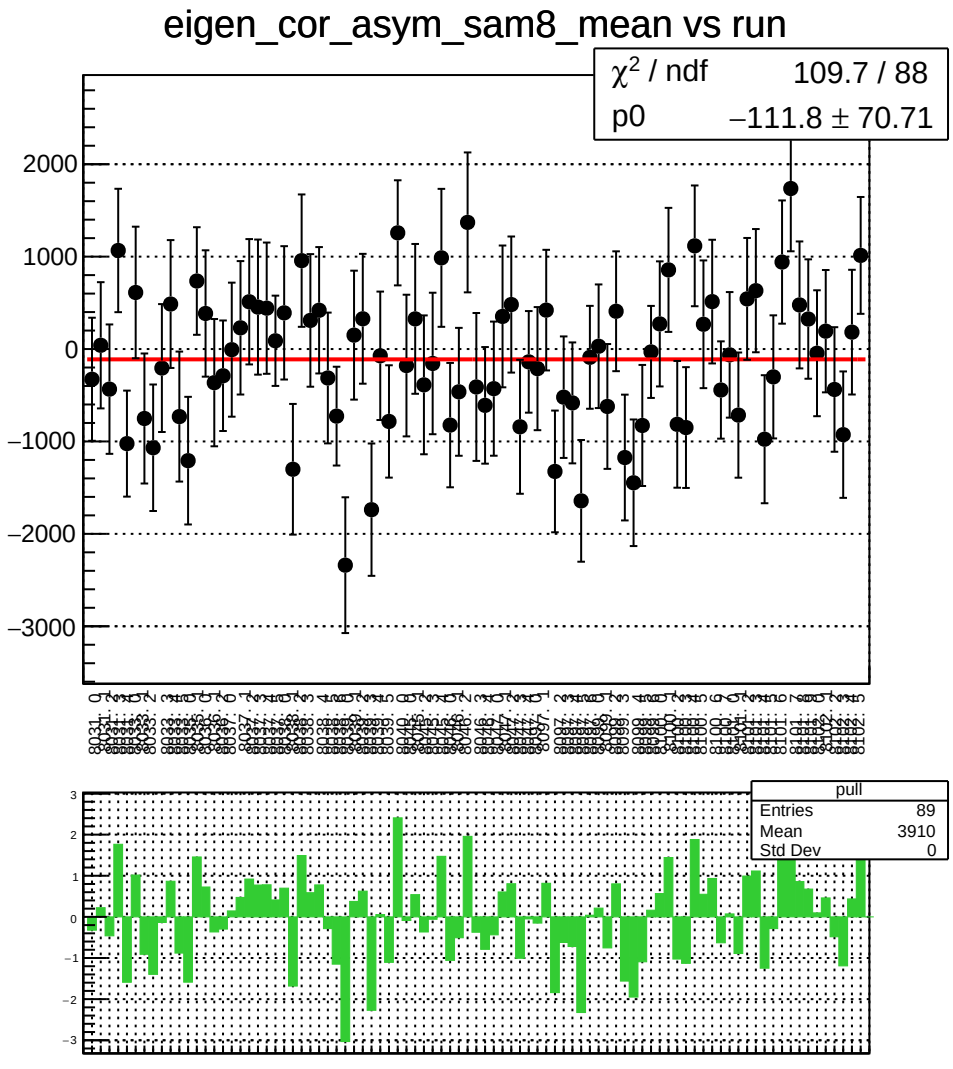

pull1D
Entries 89
Mean 0.0005718
Std Dev 1.11
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

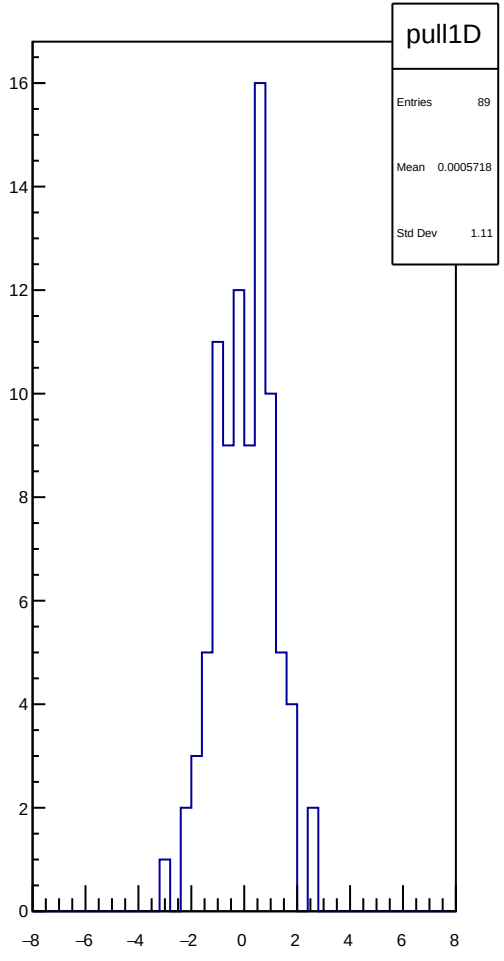

cor_asym_sam8_rms vs run
χ² / ndf 4263 / 88
p0 66.02 ± 0.05
78
76
74
72
70
68
66
64
62
60

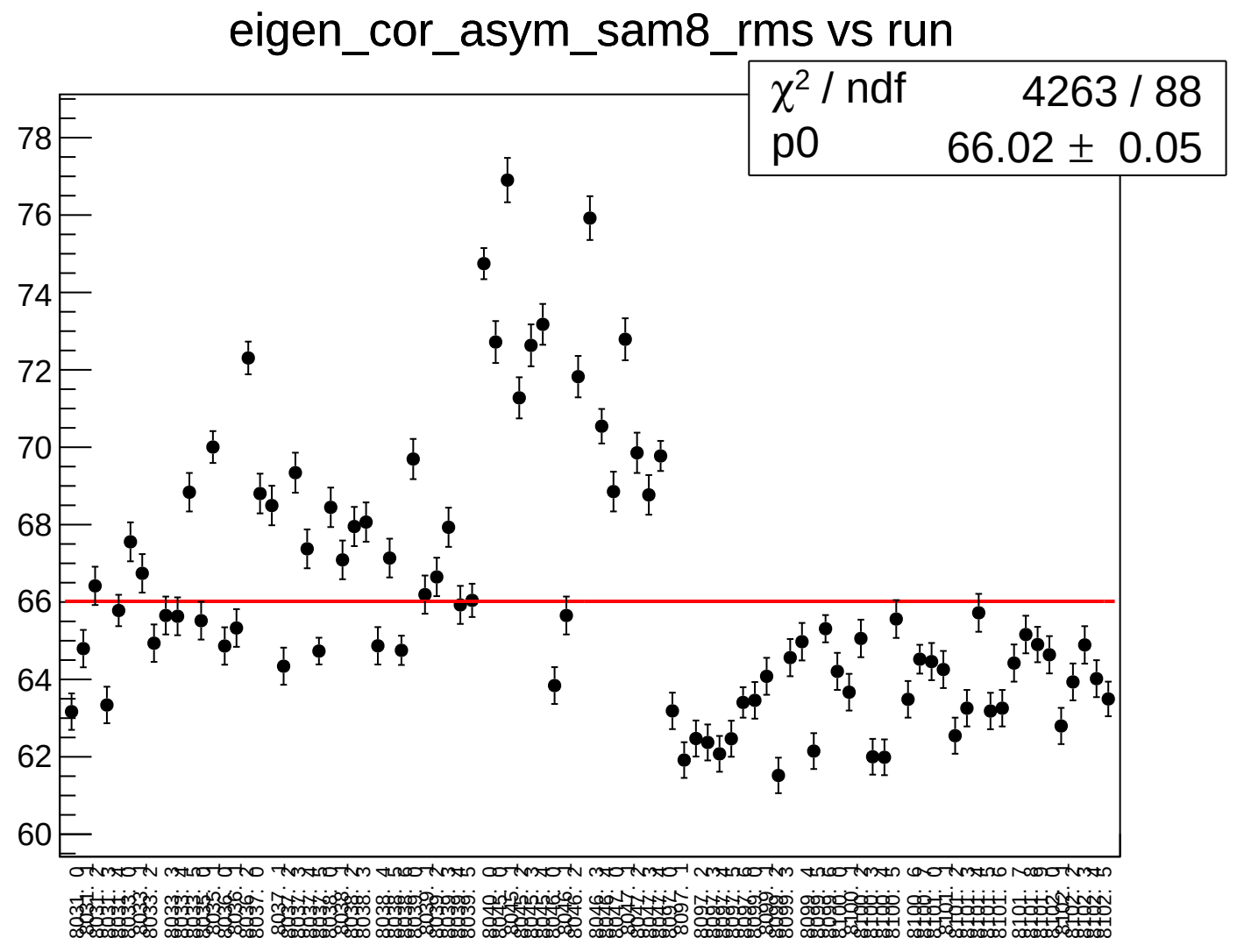

asym_sam8_cor_correction_mean vs run
χ² / ndf 84.8 / 88
p0 −469.7 ± 482.1
pull
Entries 89
Mean −85.84
Std Dev 0

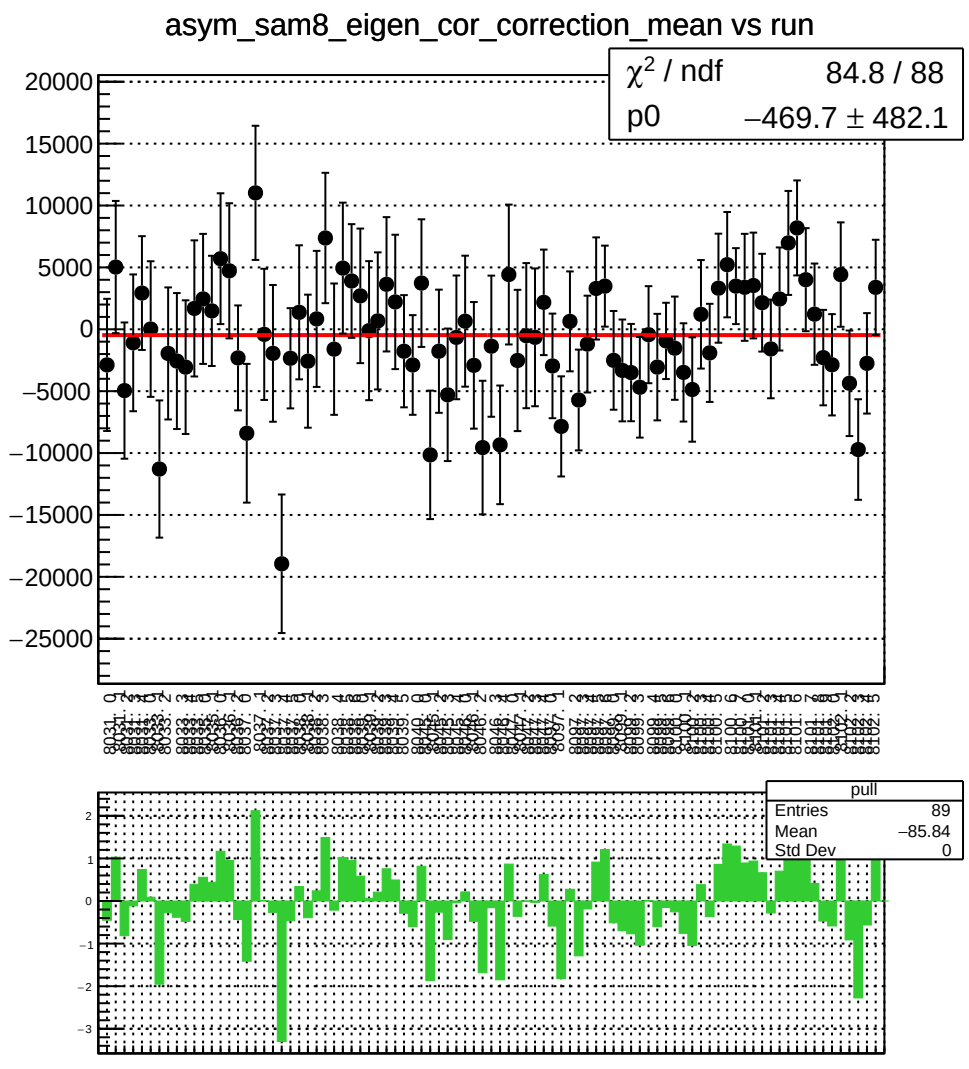

pull1D
Entries 89
Mean −0.01478
Std Dev 0.976

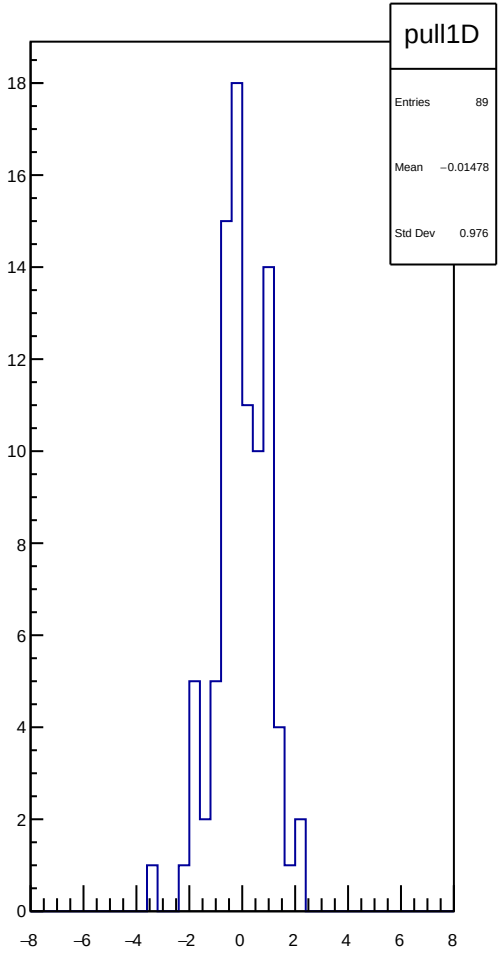

asym_sam8_cor_correction_rms vs run
χ² / ndf 3.73e+04 / 88
p0 445.8 ± 0.3409
550
500
450
400
350

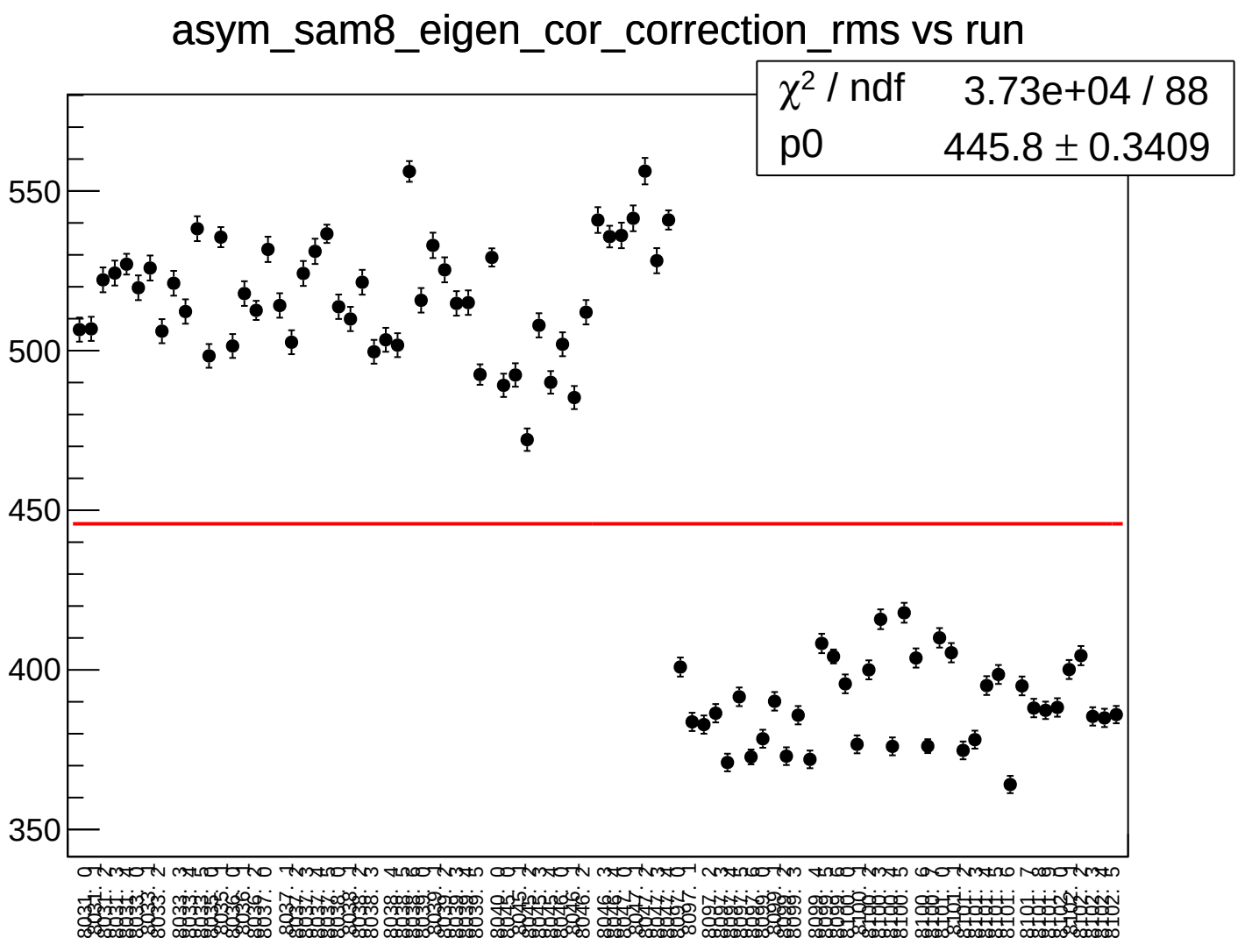

eigen_cor_asym_sam8_mean vs run
χ² / ndf 109.7 / 88
p0 −111.8 ± 70.71
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean 3910
Std Dev 0
3
2
1
0
−1
−2
−3

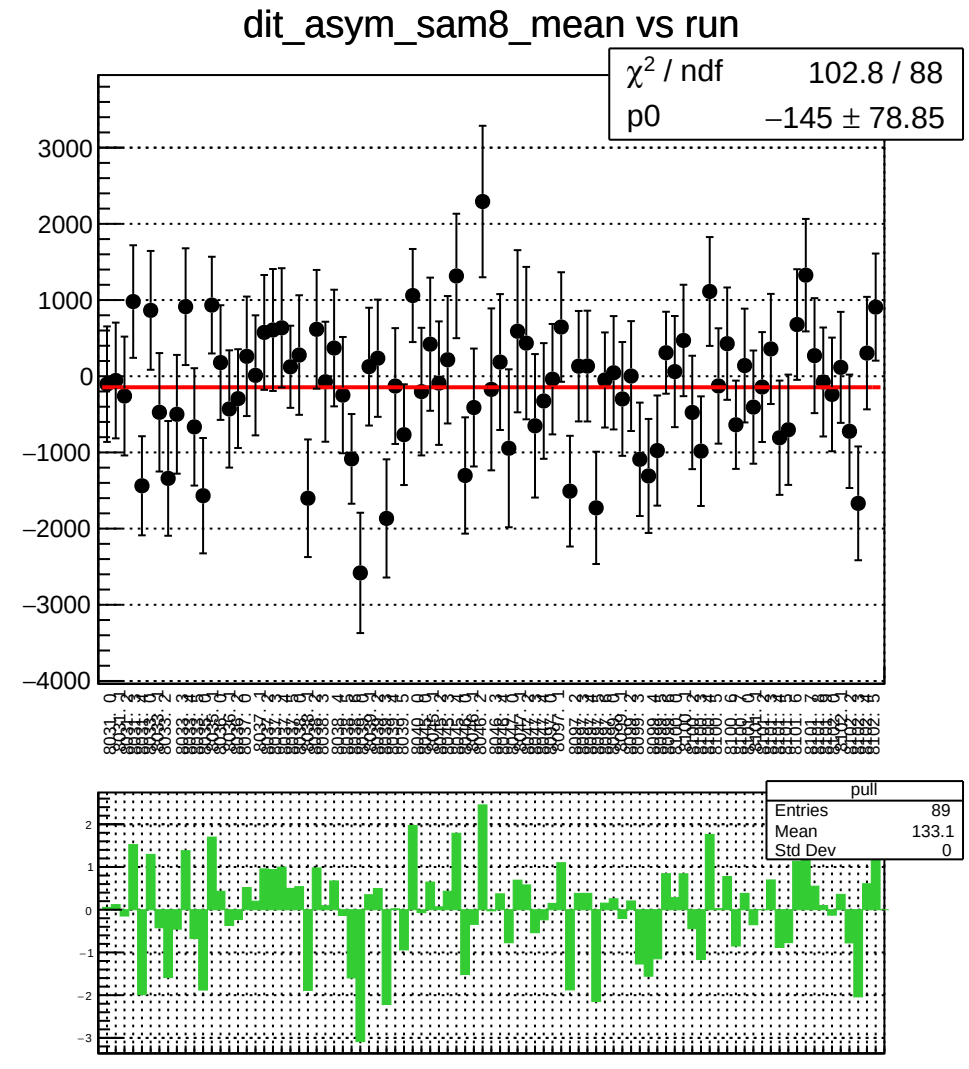

pull1D
Entries 89
Mean 0.0005718
Std Dev 1.11
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

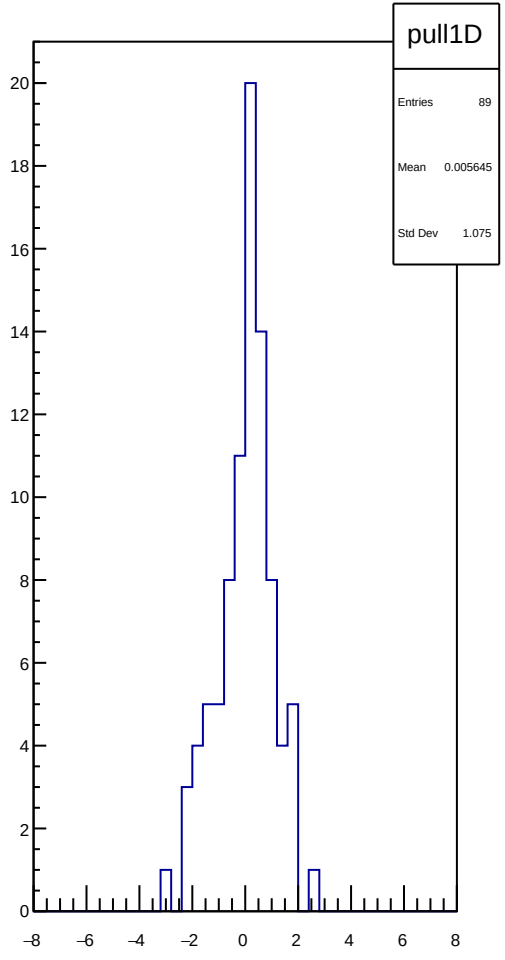

eigen_cor_asym_sam8_rms vs run
χ² / ndf 4263 / 88
p0 66.02 ± 0.05
78
76
74
72
70
68
66
64
62
60

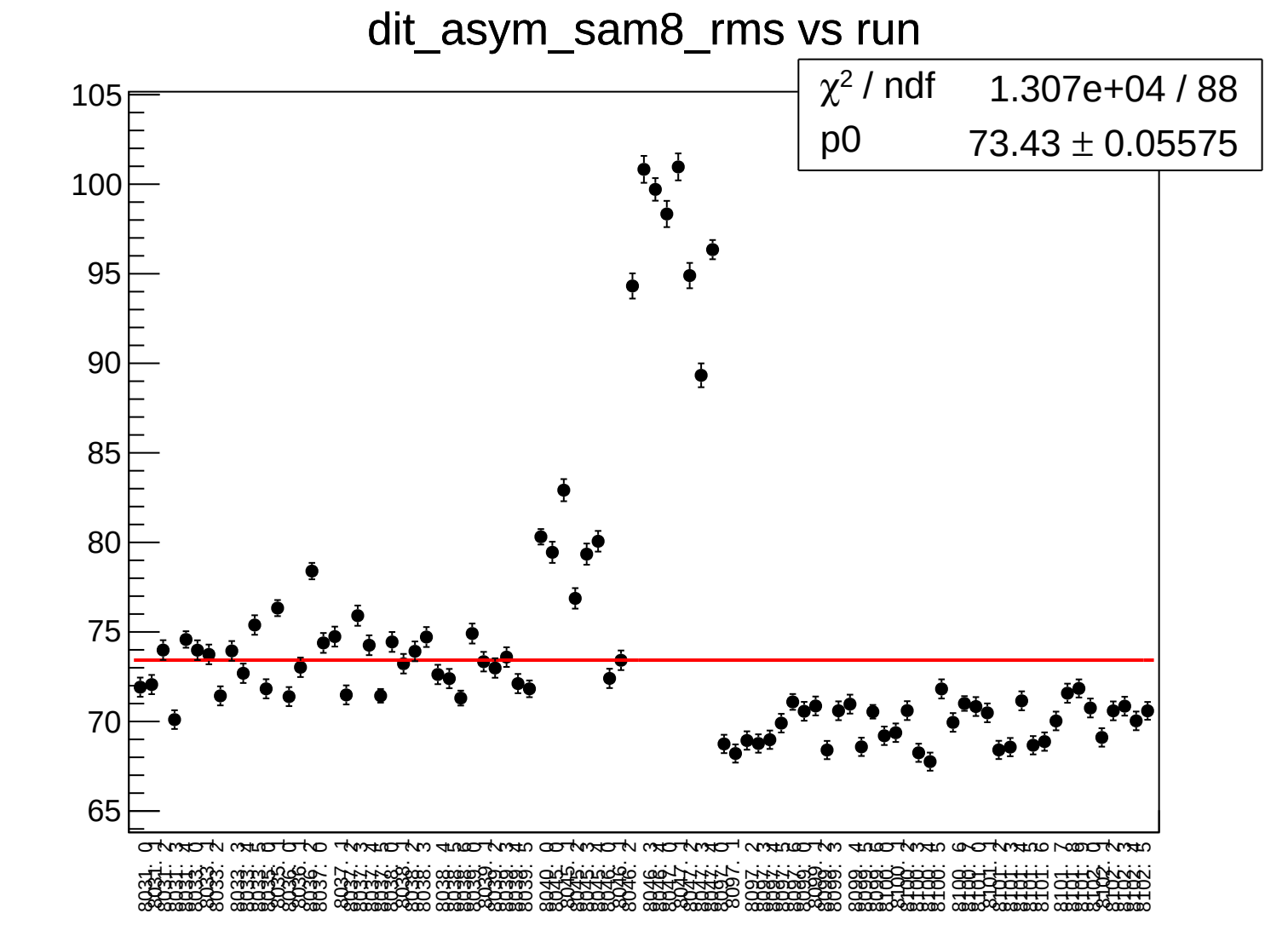

asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 84.8 / 88
p0 −469.7 ± 482.1
pull
Entries 89
Mean −85.84
Std Dev 0

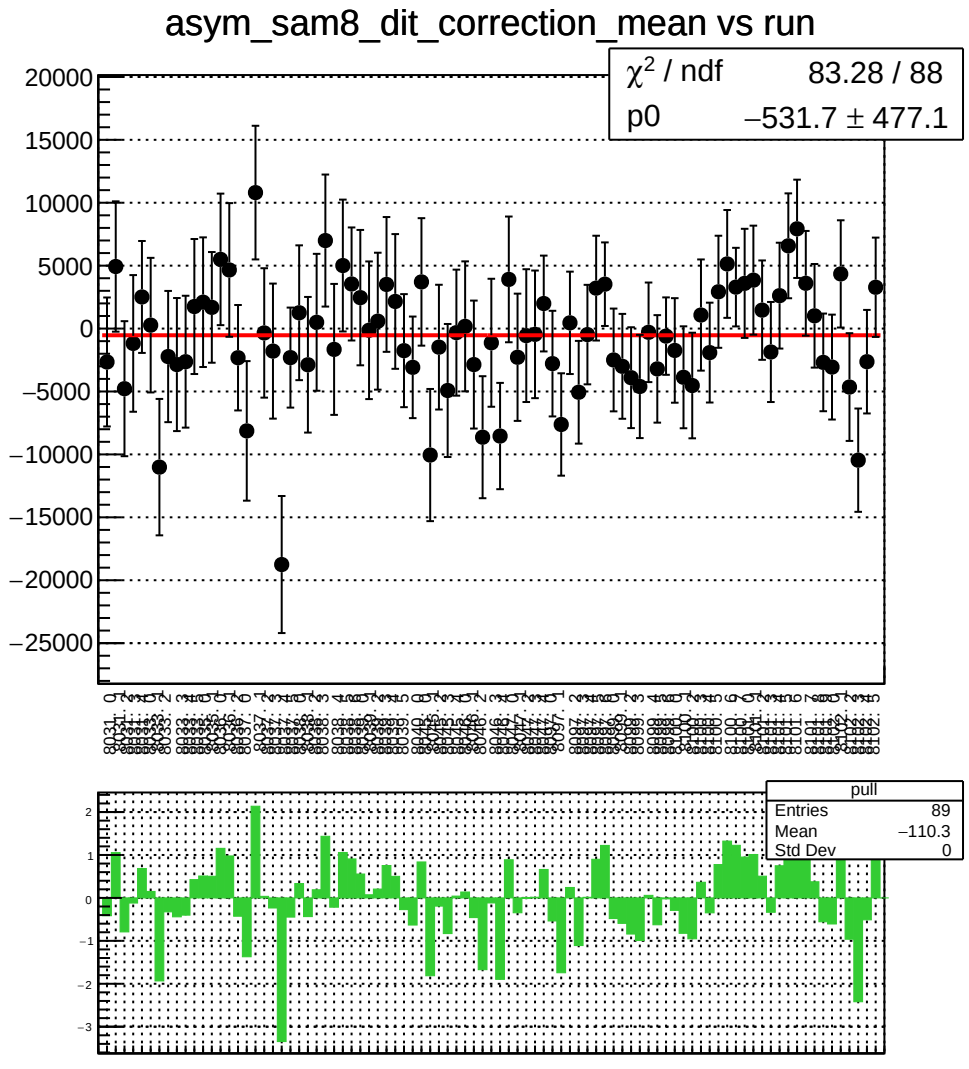

pull1D
Entries 89
Mean −0.01478
Std Dev 0.976

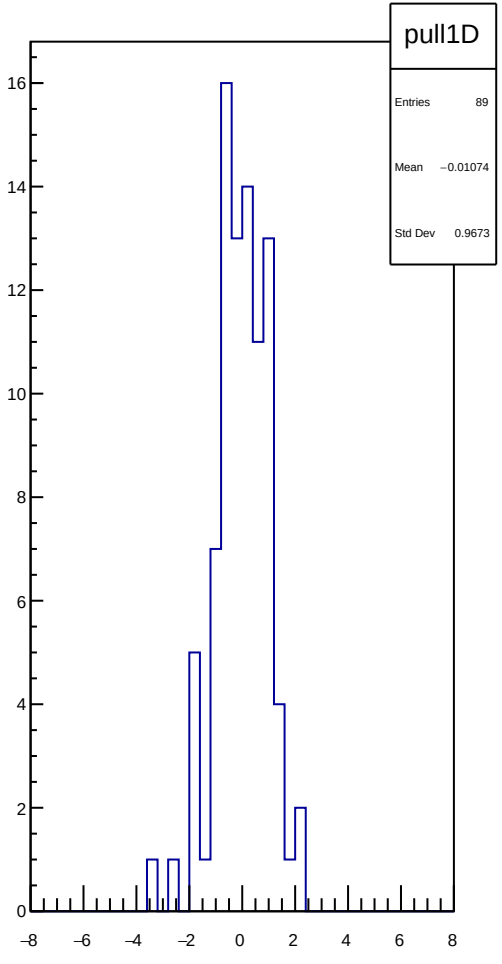

asym_sam8_eigen_cor_correction_rms vs run
χ² / ndf 3.73e+04 / 88
p0 445.8 ± 0.3409
550
500
450
400
350

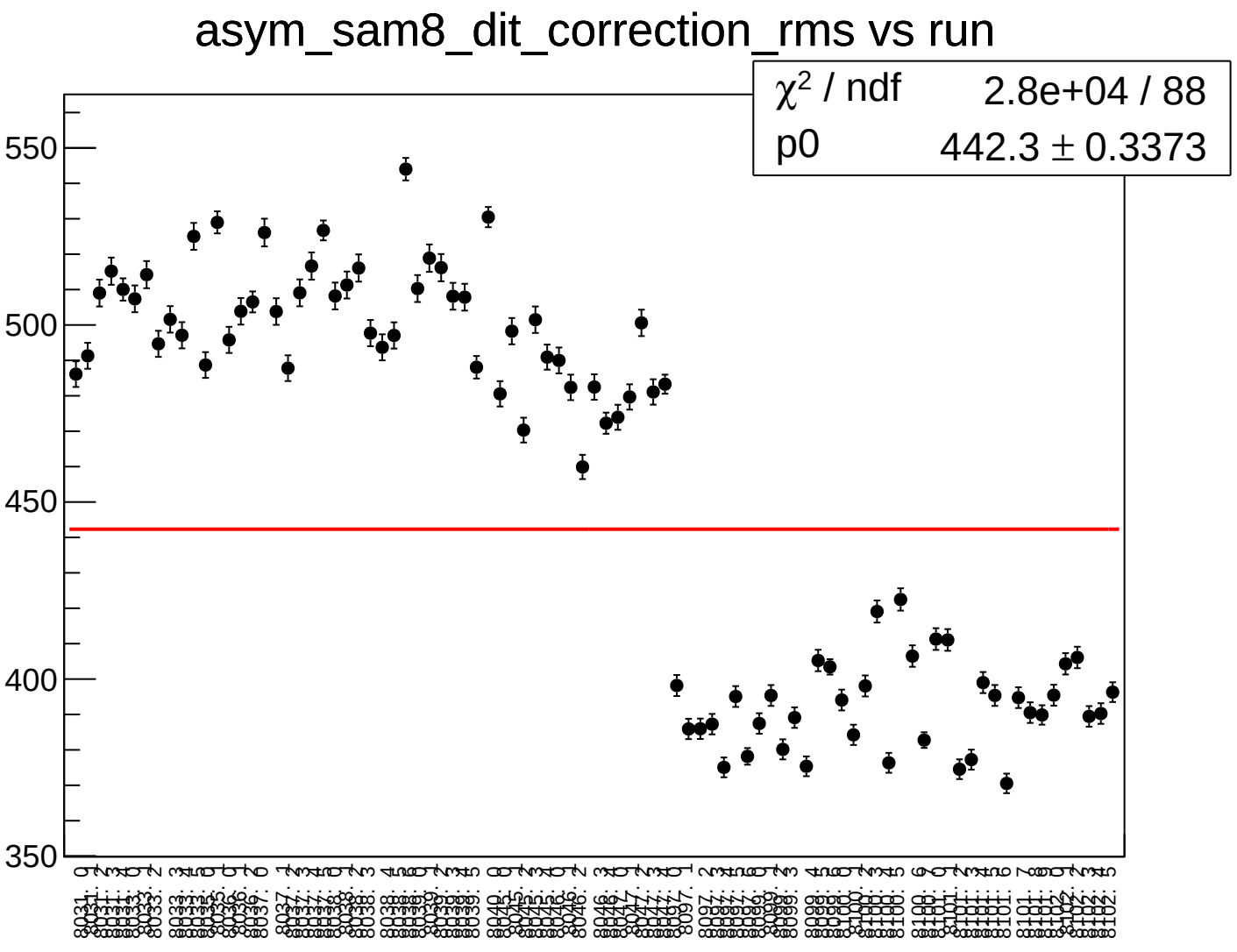

dit_asym_sam8_mean vs run
χ² / ndf 102.8 / 88
p0 −145 ± 78.85
pull
Entries 89
Mean 133.1
Std Dev 0

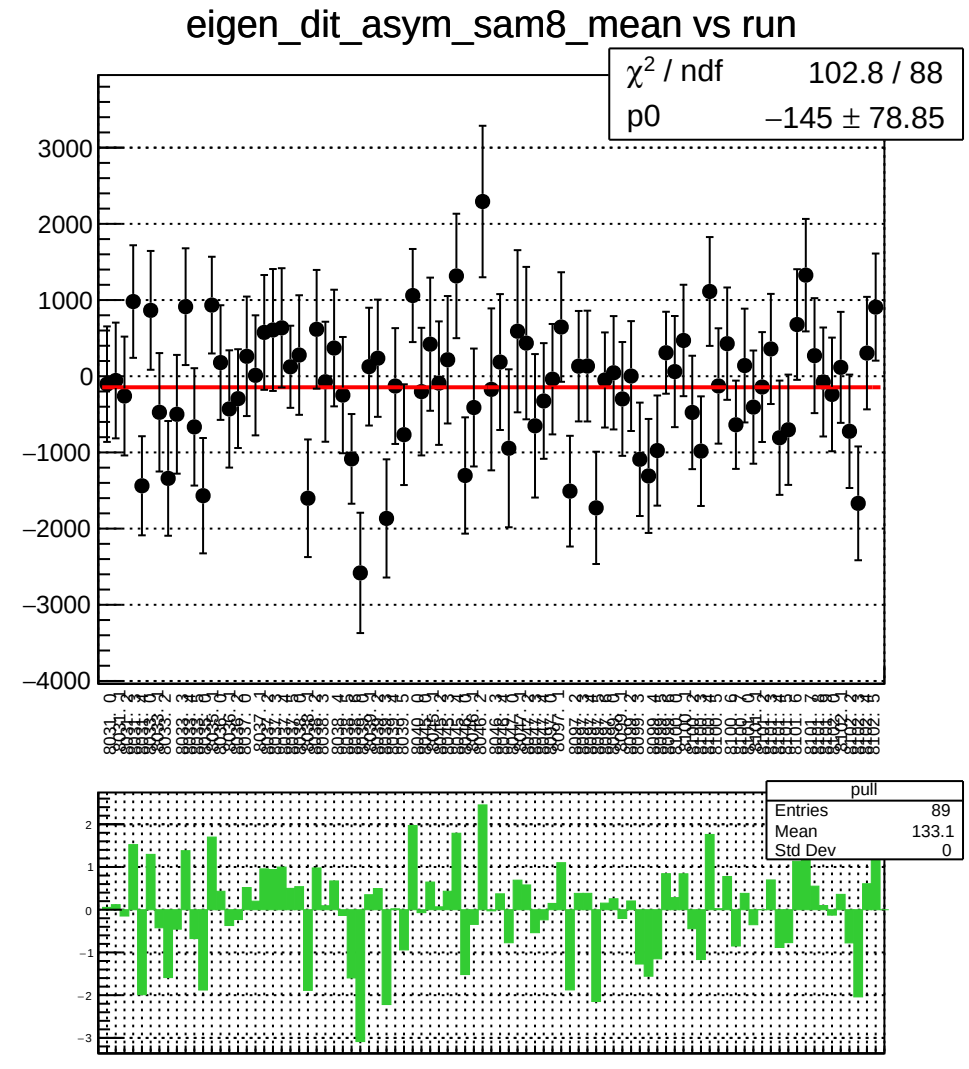

pull1D
Entries 89
Mean 0.005645
Std Dev 1.075

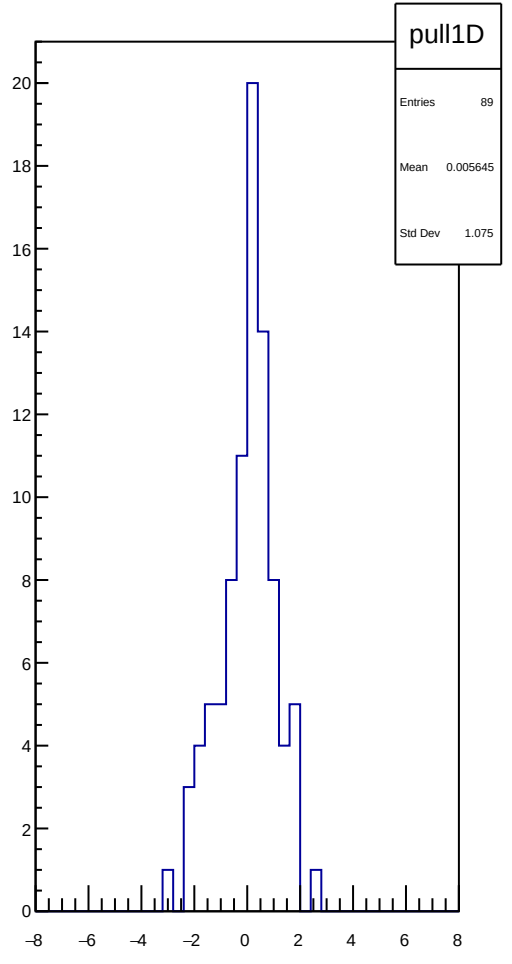

dit_asym_sam8_rms vs run
$\chi^2$ / ndf 1.307e+04 / 88
p0 73.43 ± 0.05575
105
100
95
90
85
80
75
70
65

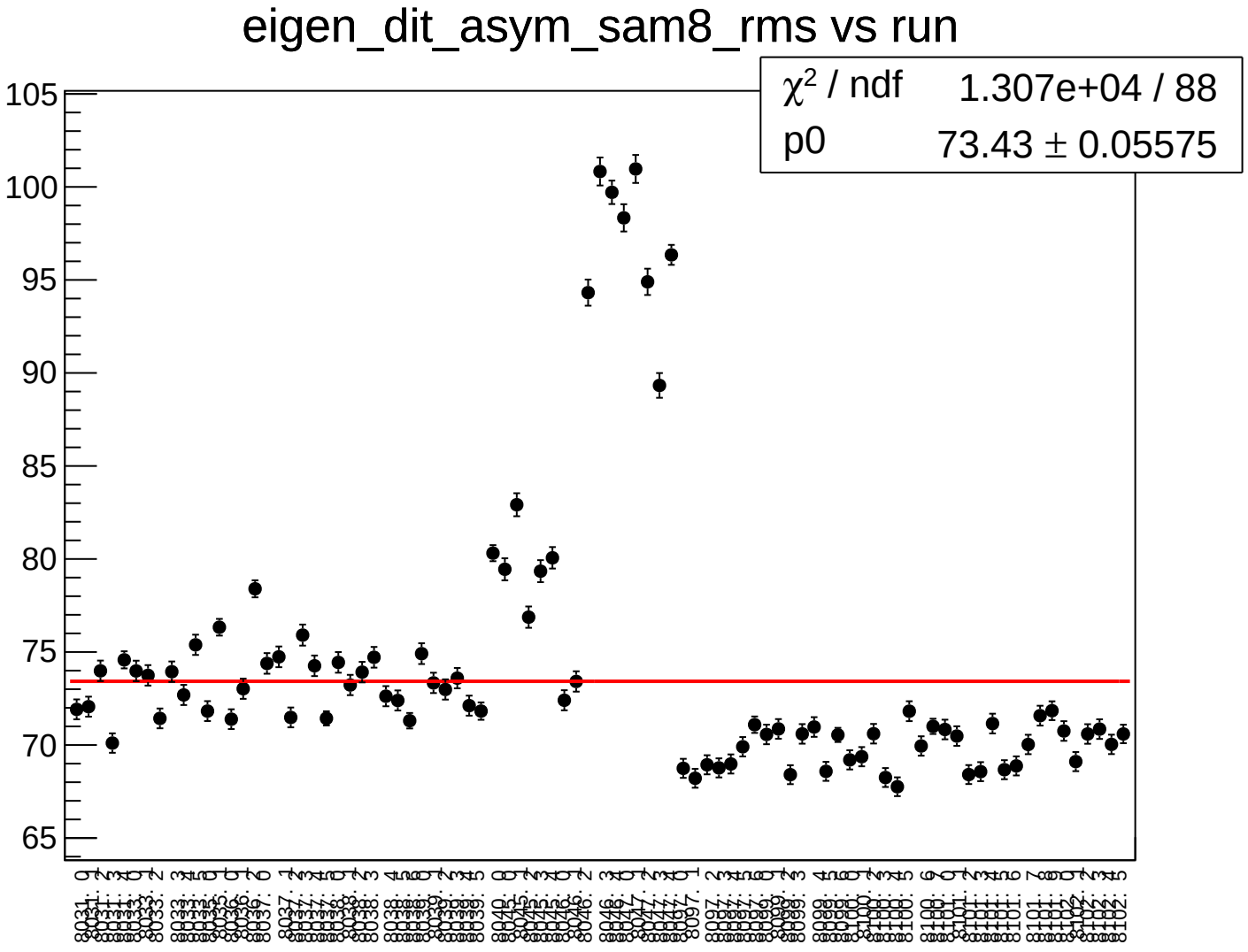

asym_sam8_dit_correction_mean vs run
χ² / ndf 83.28 / 88
p0 −531.7 ± 477.1
pull
Entries 89
Mean −110.3
Std Dev 0

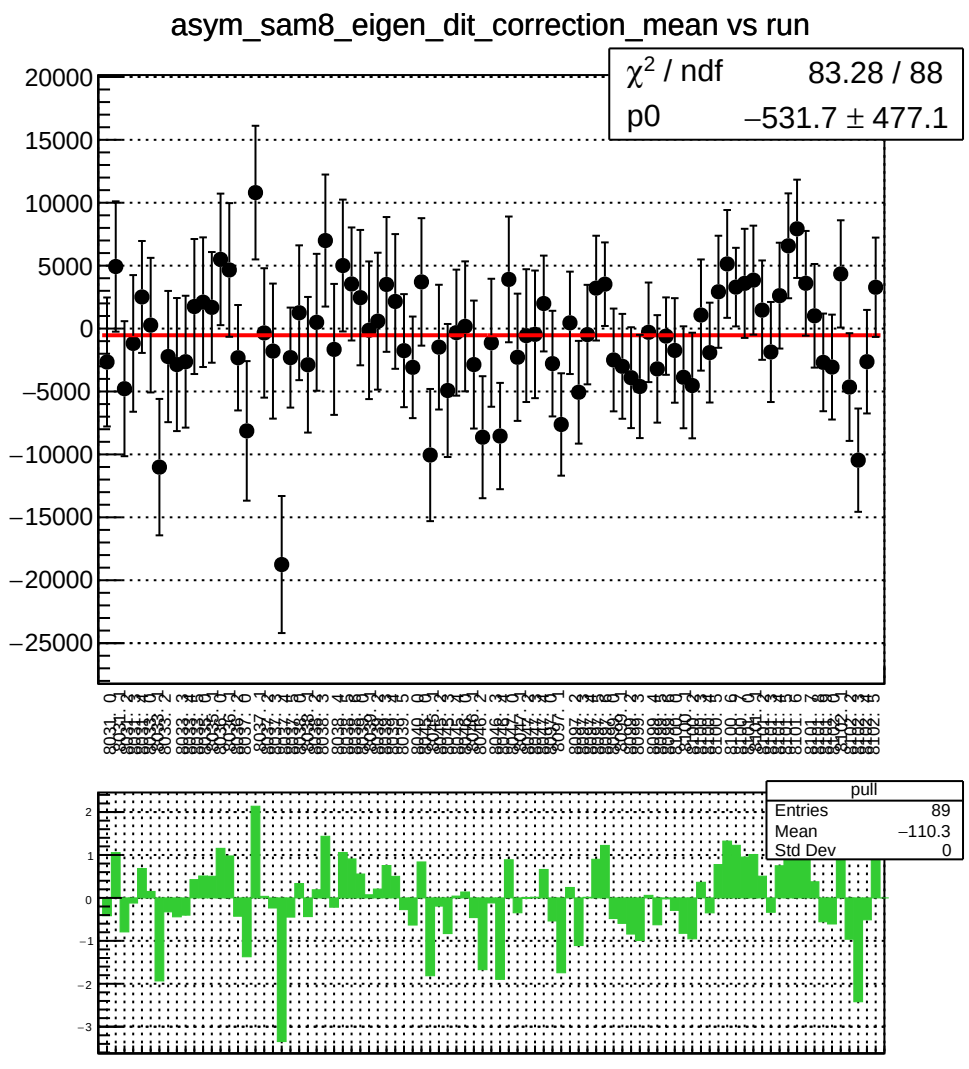

pull1D
Entries 89
Mean −0.01074
Std Dev 0.9673

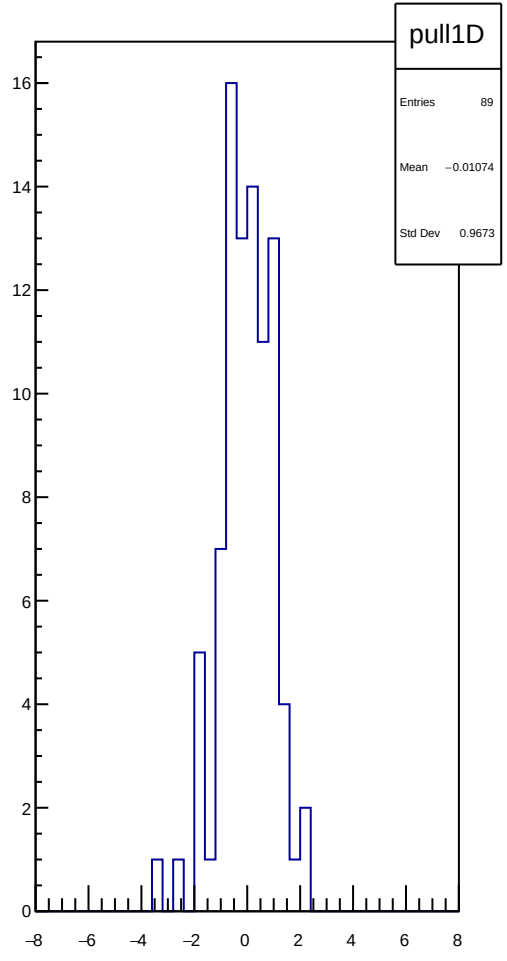

asym_sam8_dit_correction_rms vs run
χ² / ndf 2.8e+04 / 88
p0 442.3 ± 0.3373
550
500
450
400
350

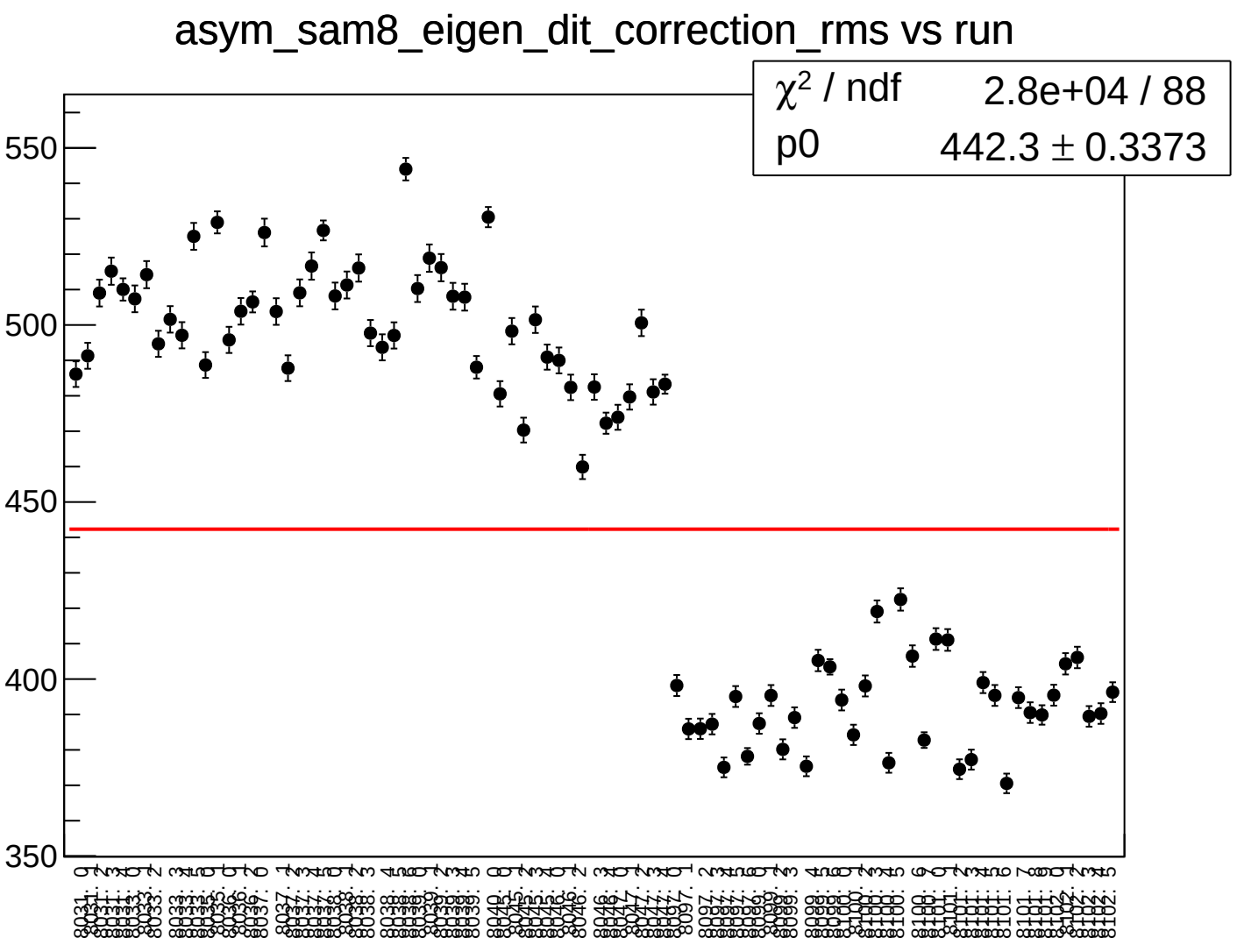

eigen_dit_asym_sam8_mean vs run
χ² / ndf 102.8 / 88
p0 −145 ± 78.85
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 89
Mean 133.1
Std Dev 0
2
1
0
−1
−2
−3

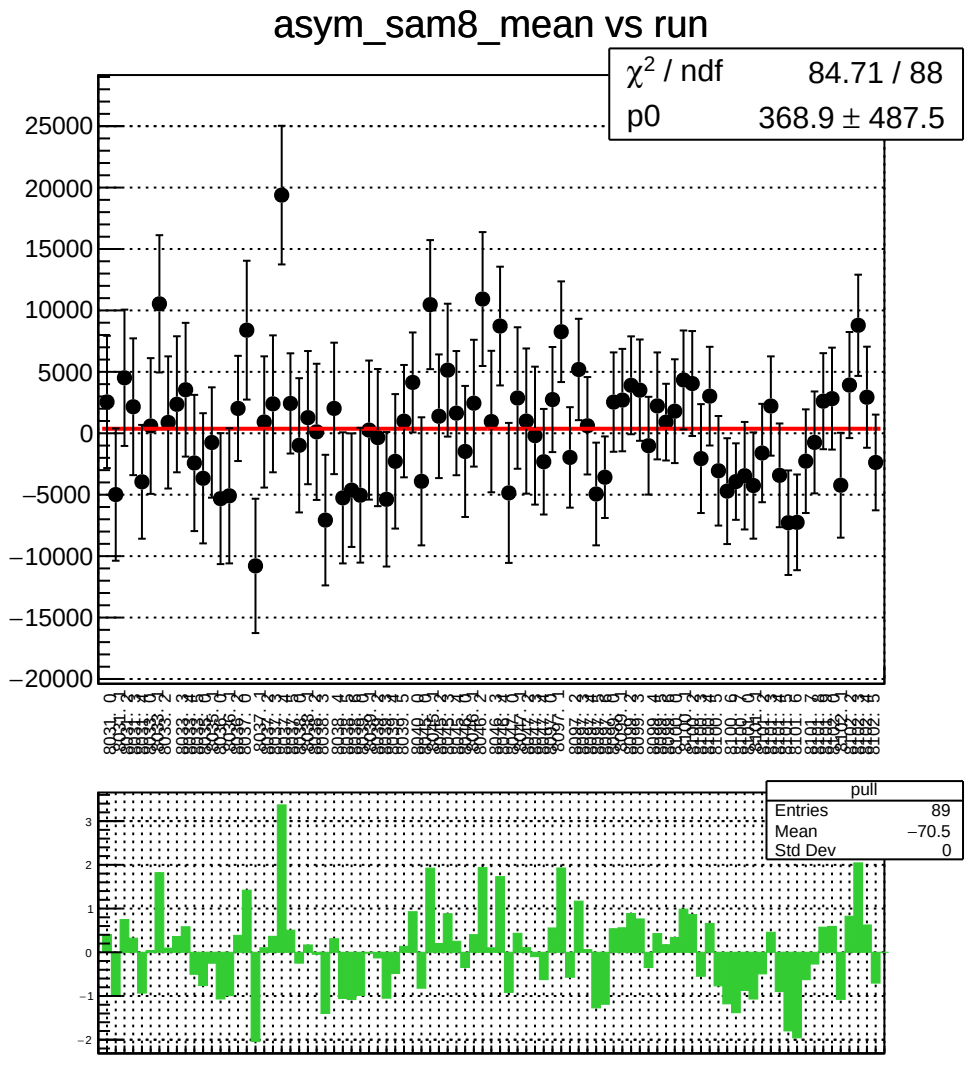

pull1D
Entries 89
Mean 0.005645
Std Dev 1.075
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

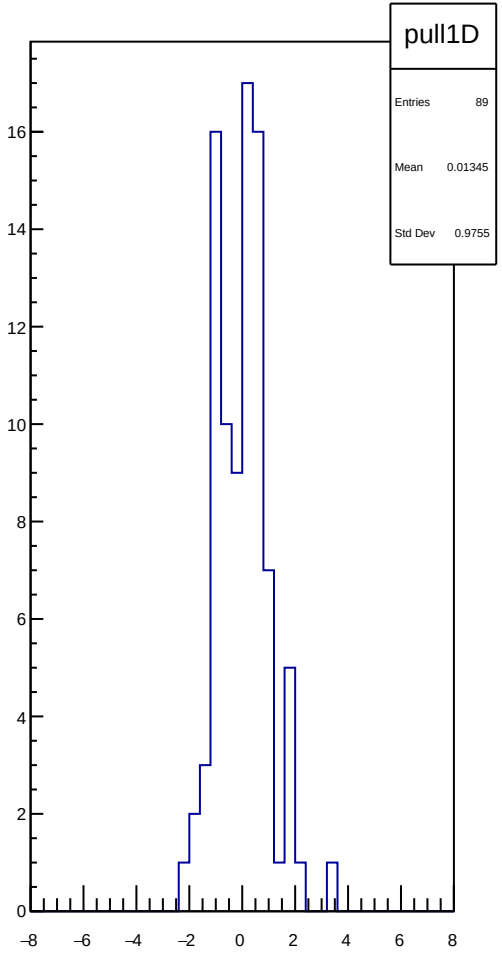

eigen_dit_asym_sam8_rms vs run
χ² / ndf 1.307e+04 / 88
p0 73.43 ± 0.05575
105
100
95
90
85
80
75
70
65

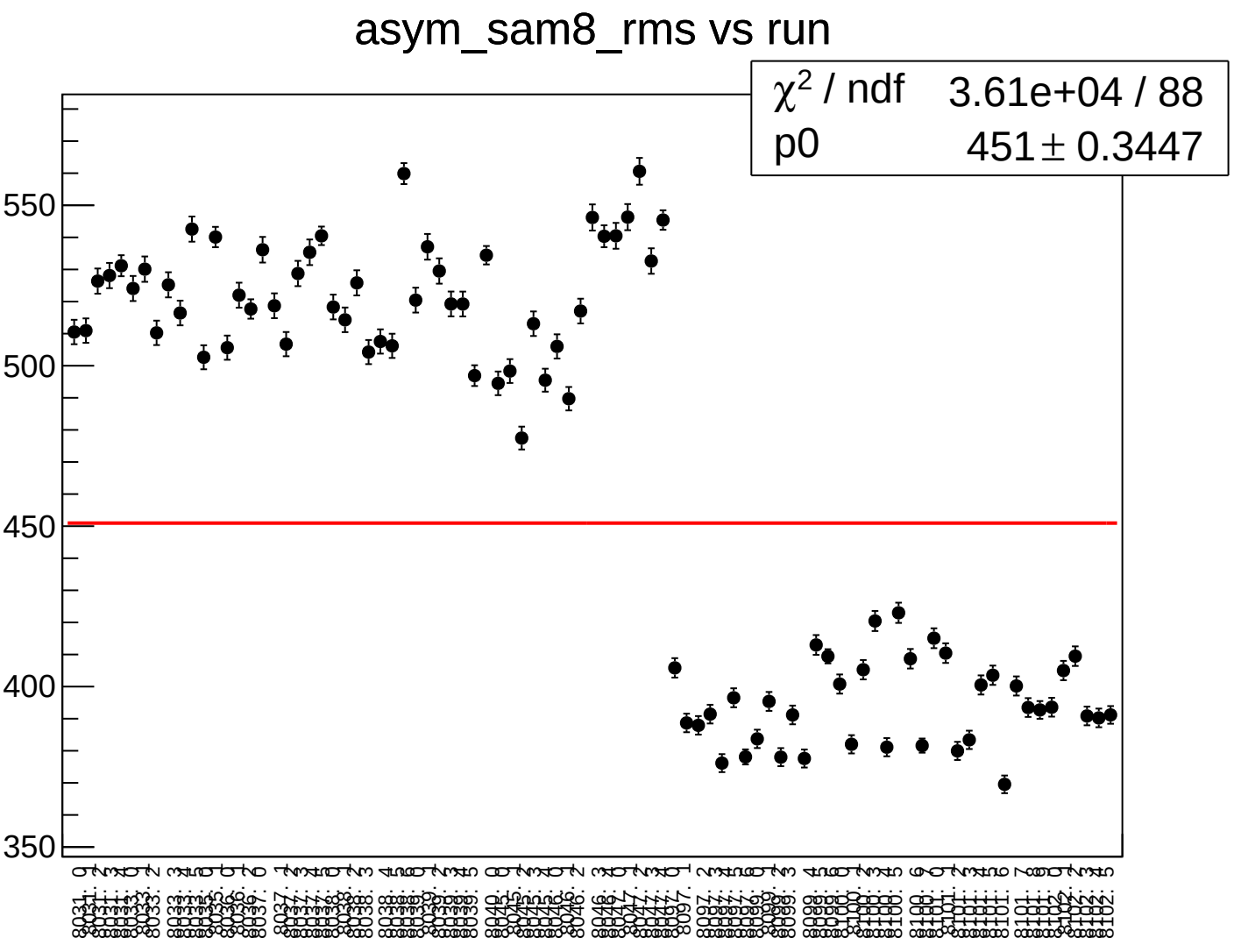

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 83.28 / 88
p0 −531.7 ± 477.1
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 89
Mean −110.3
Std Dev 0
2
1
0
−1
−2
−3

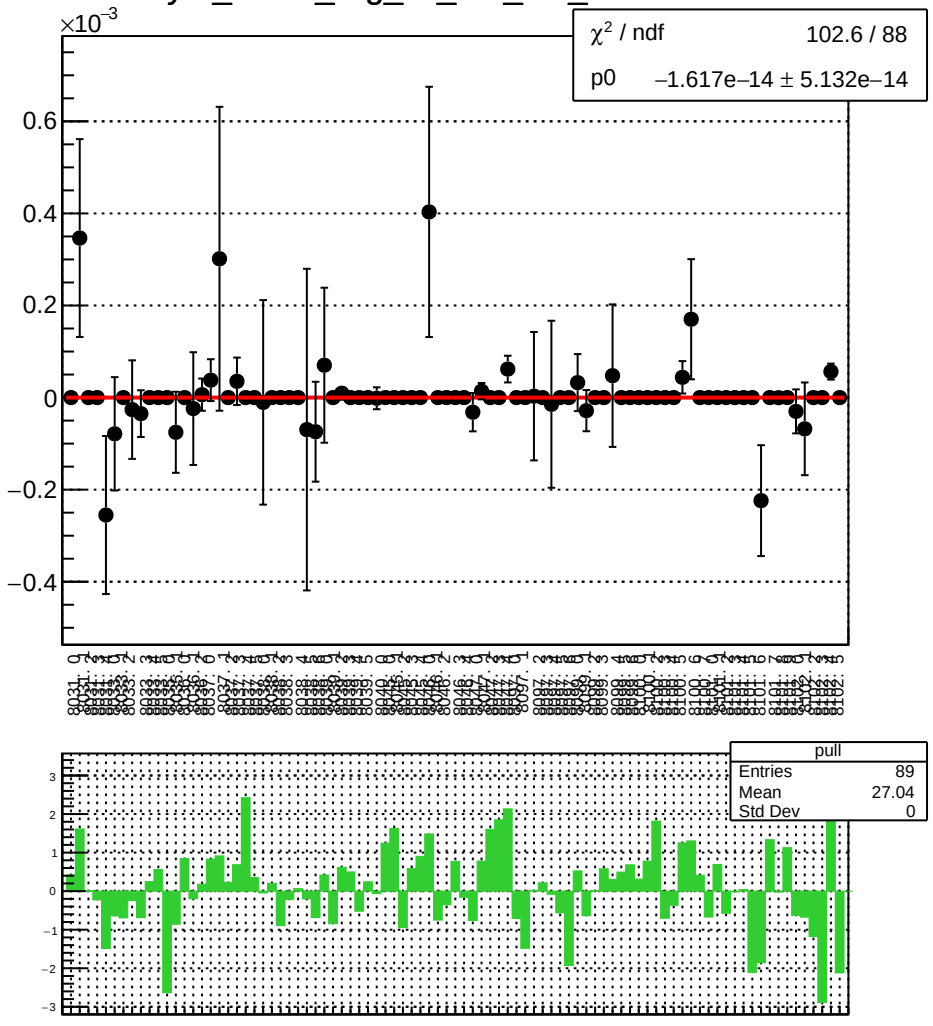

pull1D
Entries 89
Mean −0.01074
Std Dev 0.9673
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

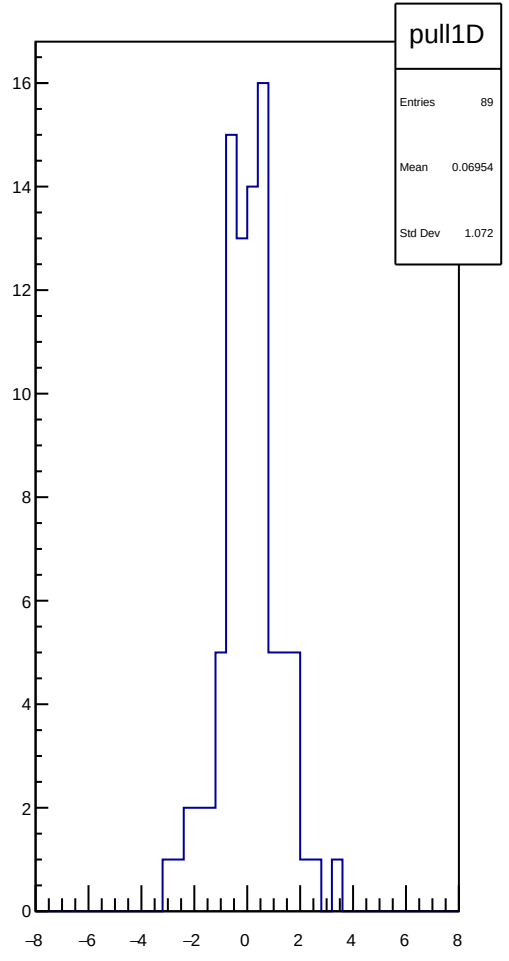

asym_sam8_eigen_dit_correction_rms vs run
χ² / ndf 2.8e+04 / 88
p0 442.3 ± 0.3373
550
500
450
400
350

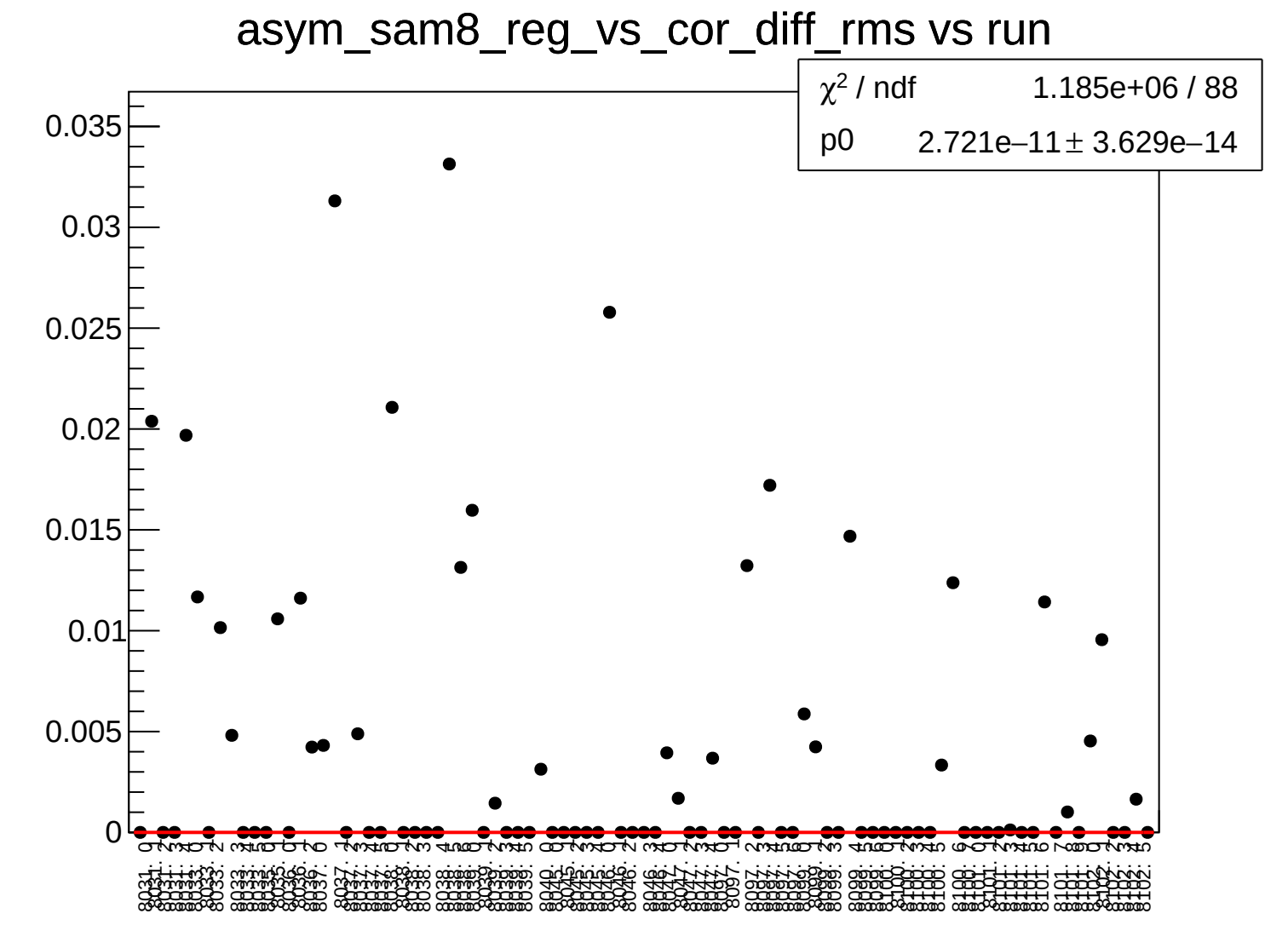

asym_sam8_mean vs run
χ² / ndf 84.71 / 88
p0 368.9 ± 487.5
pull
Entries 89
Mean −70.5
Std Dev 0

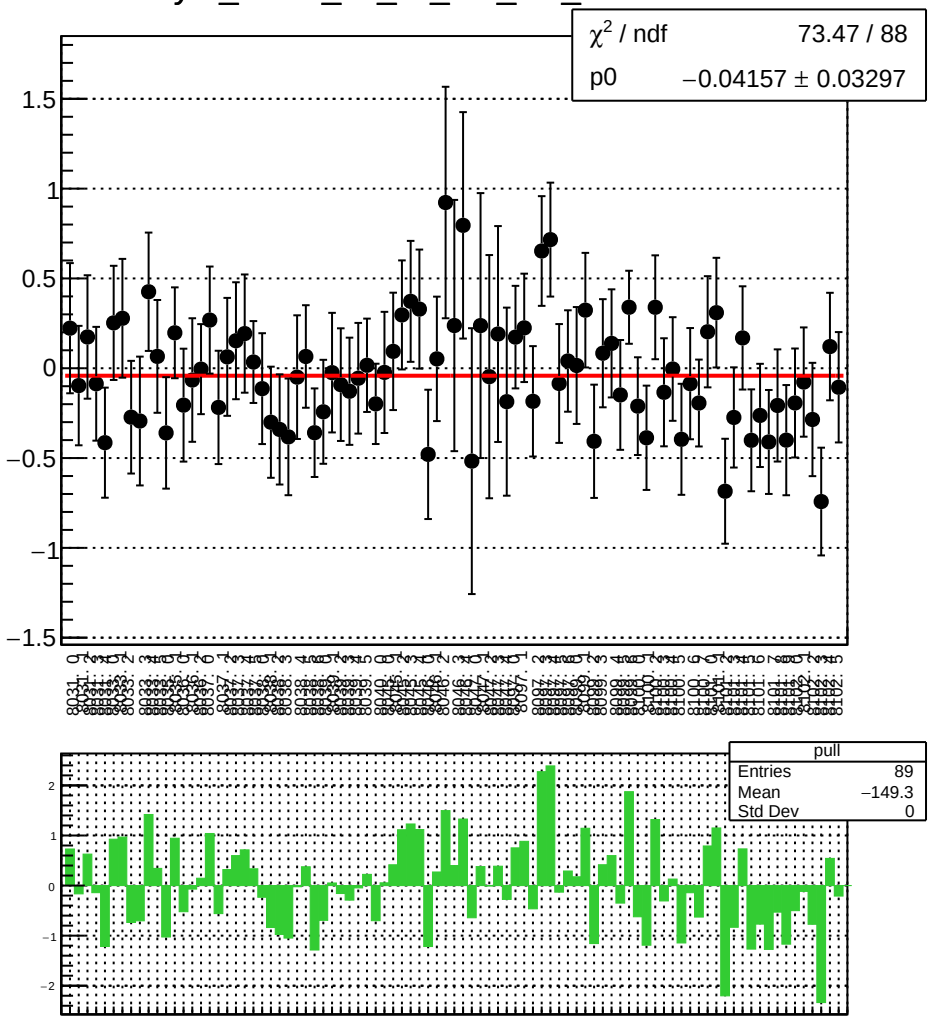

pull1D
Entries 89
Mean 0.01345
Std Dev 0.9755

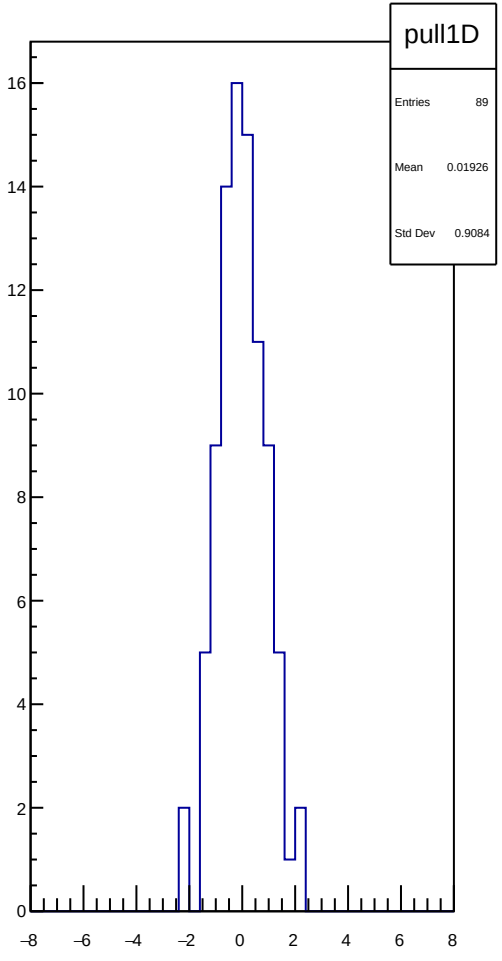

asym_sam8_rms vs run
χ² / ndf 3.61e+04 / 88
p0 451 ± 0.3447
550
500
450
400
350

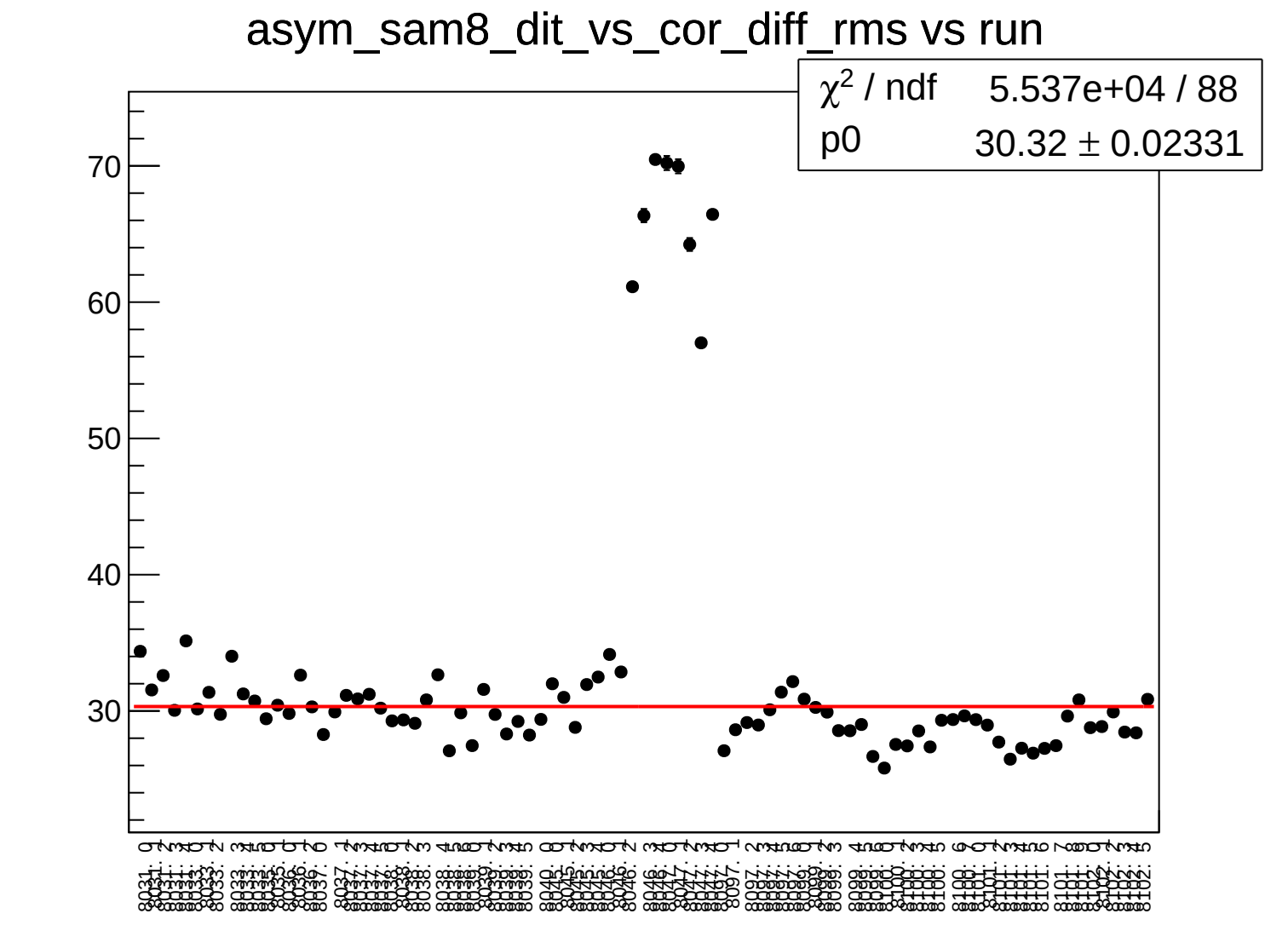

asym_sam8_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 102.6 / 88
p0 −1.617e−14 ± 5.132e−14
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 89
Mean 27.04
Std Dev 0
3
2
1
0
−1
−2
−3

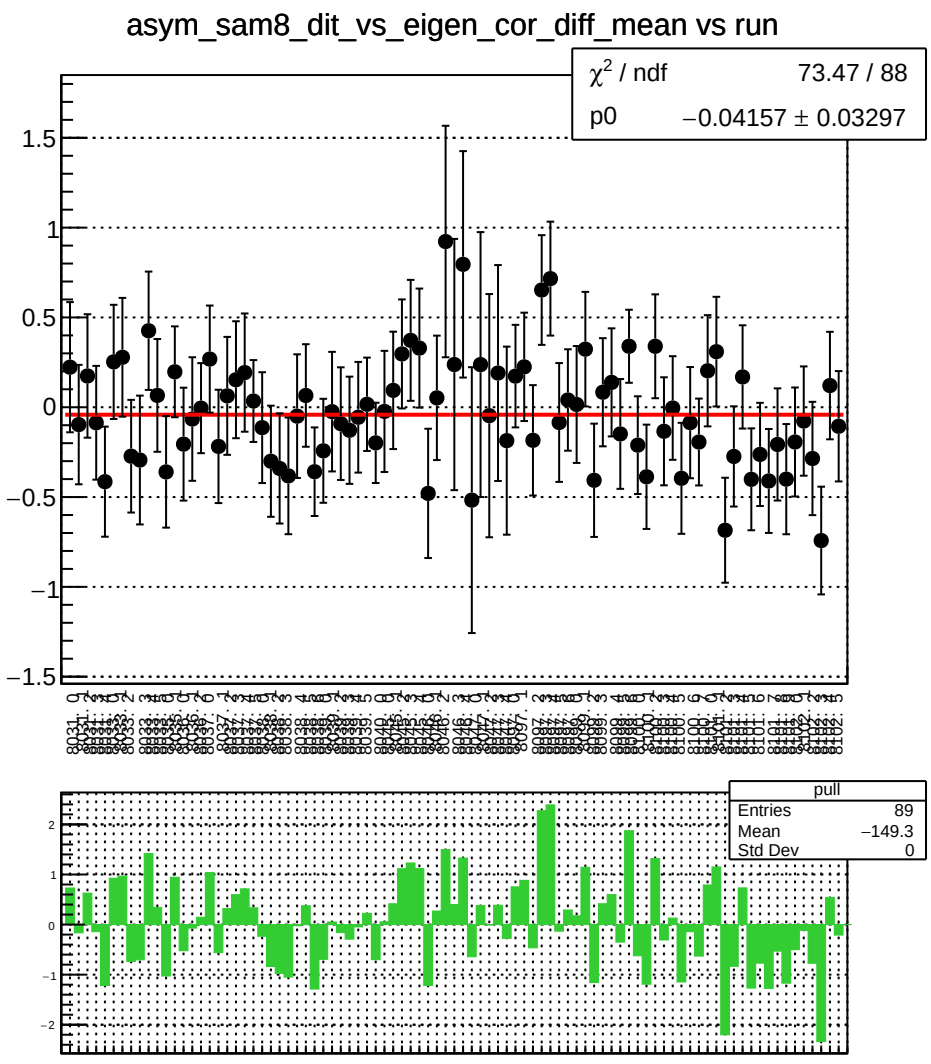

pull1D
Entries 89
Mean 0.06954
Std Dev 1.072
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

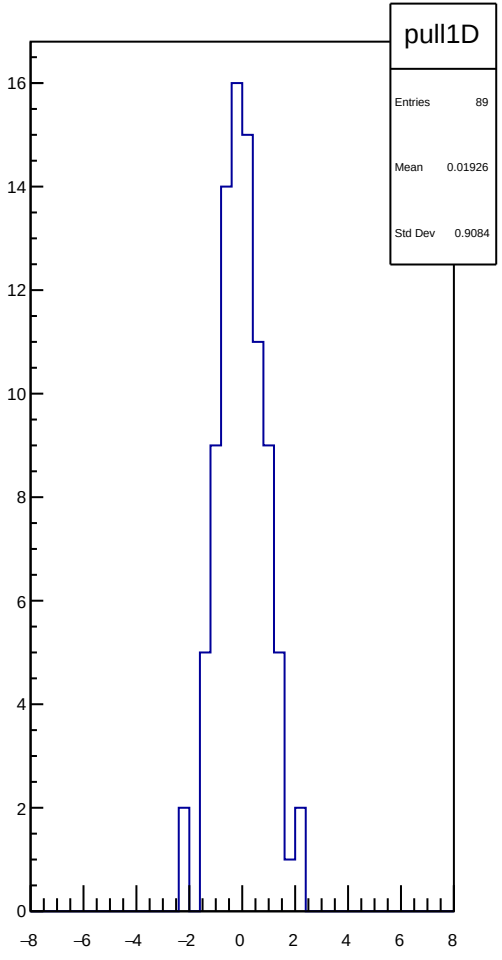

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 1.185e+06 / 88
p0 2.721e−11 ± 3.629e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

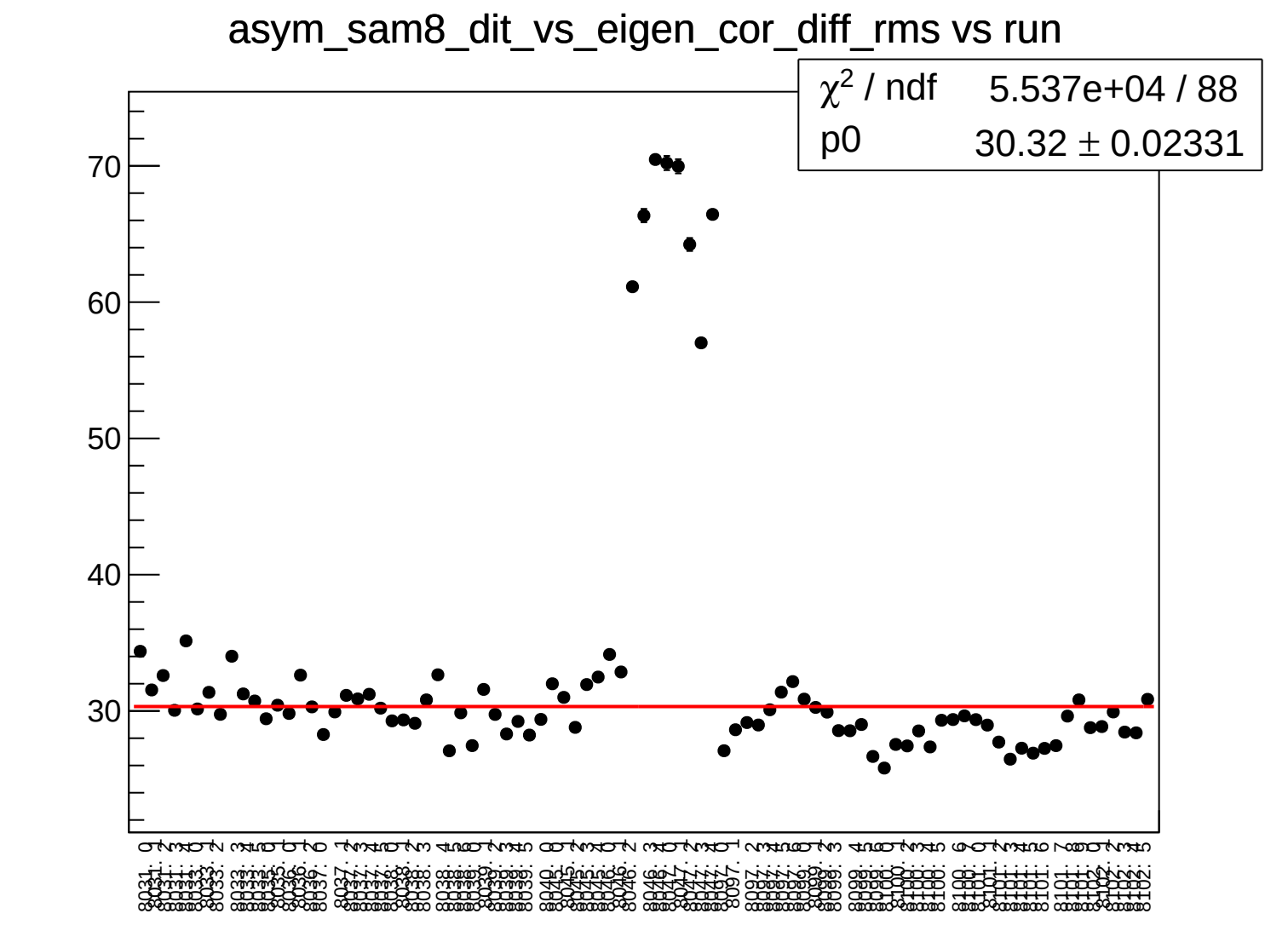

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 73.47 / 88
p0 −0.04157 ± 0.03297
pull
Entries 89
Mean −149.3
Std Dev 0

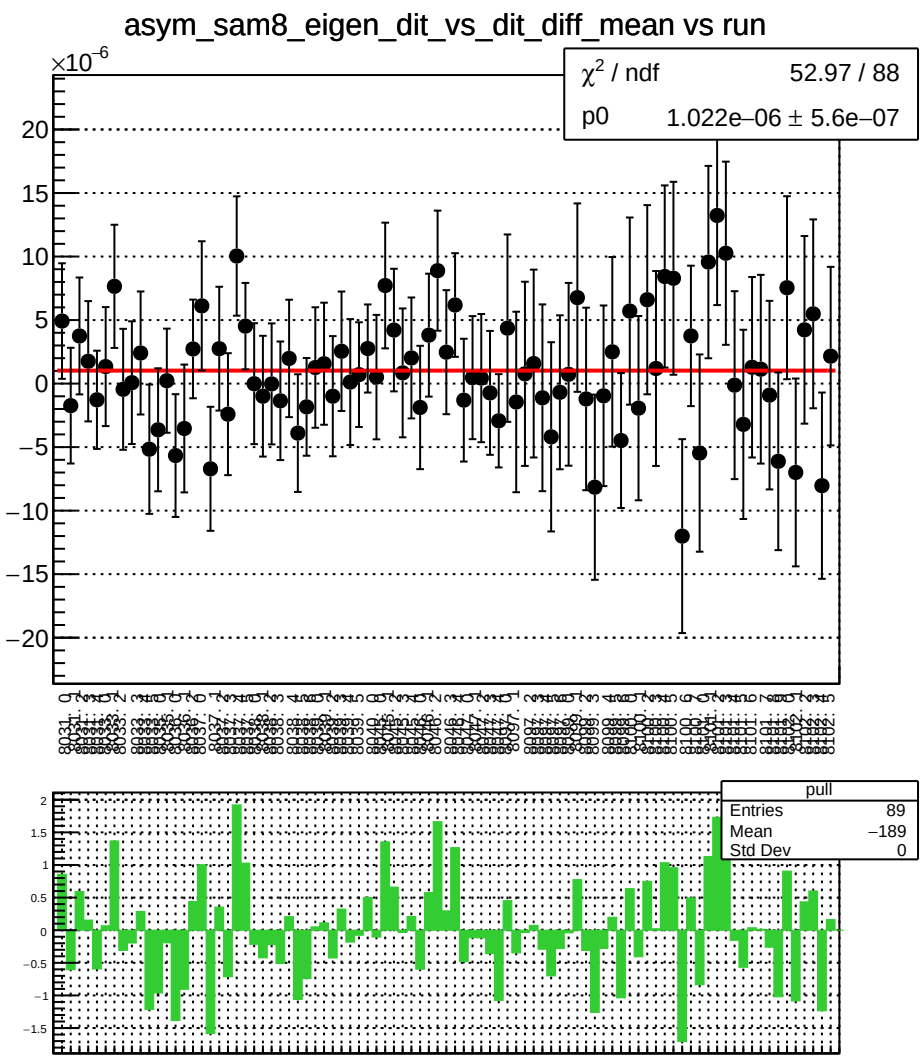

pull1D
Entries 89
Mean 0.01926
Std Dev 0.9084

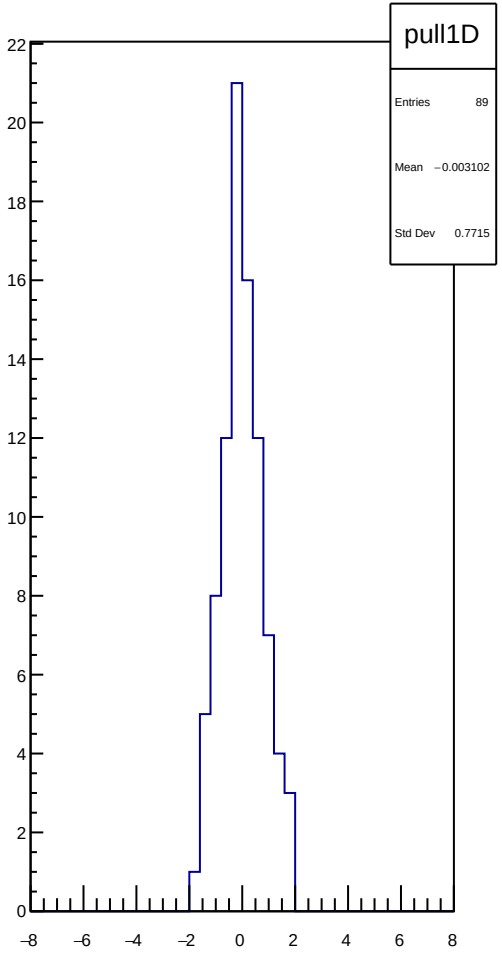

asym_sam8_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 5.537e+04 / 88
p0 30.32 ± 0.02331
70
60
50
40
30

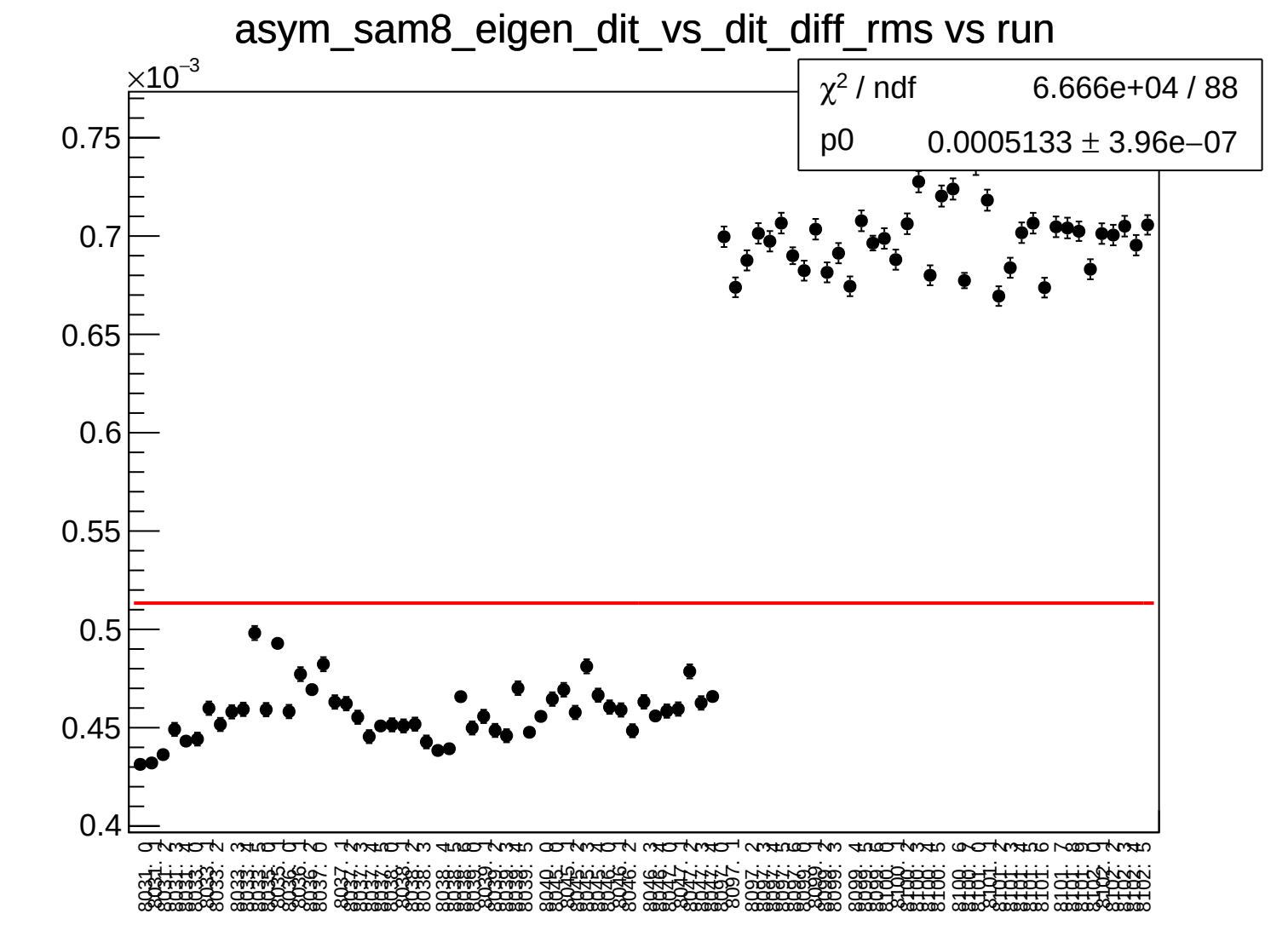

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.47 / 88
p0 −0.04157 ± 0.03297
pull
Entries 89
Mean −149.3
Std Dev 0

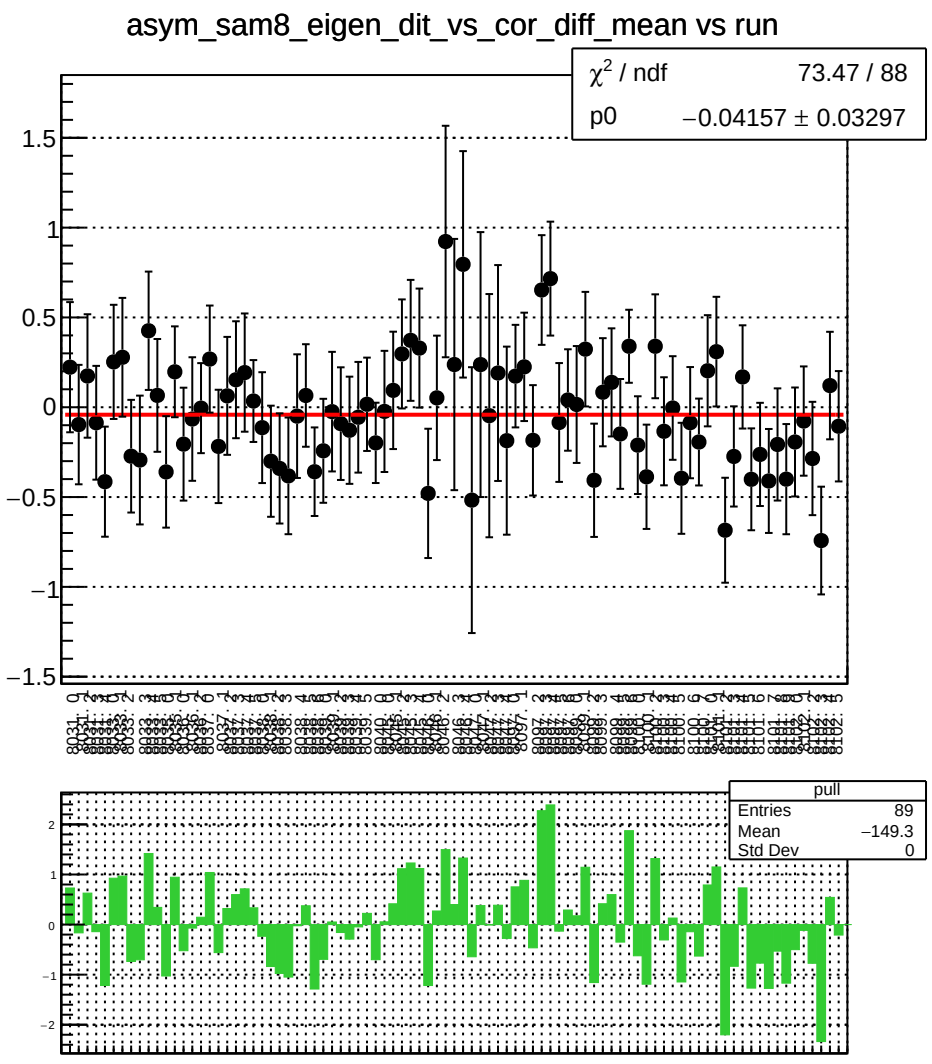

pull1D
Entries 89
Mean 0.01926
Std Dev 0.9084

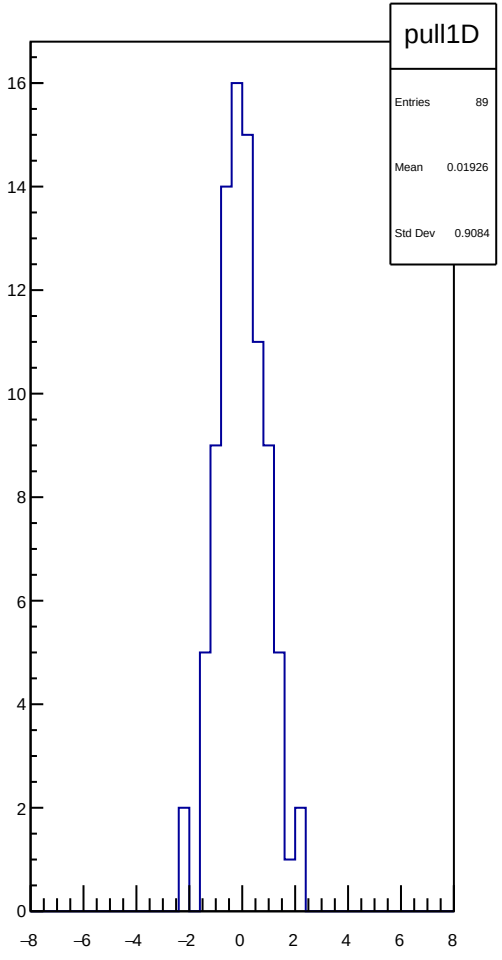

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 5.537e+04 / 88
p0 30.32 ± 0.02331
70
60
50
40
30

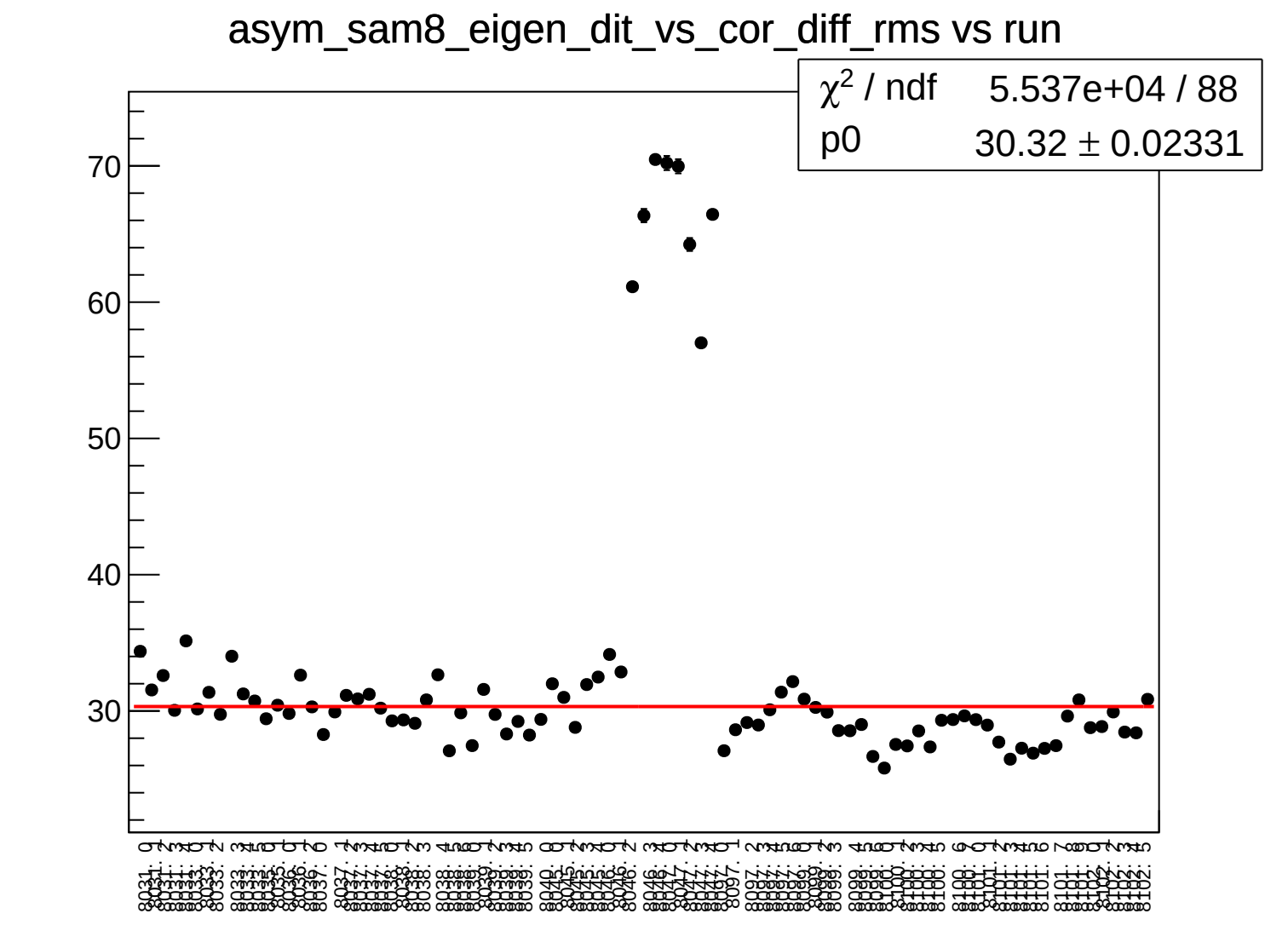

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 52.97 / 88
p0 1.022e−06 ± 5.6e−07
pull
Entries 89
Mean −189
Std Dev 0

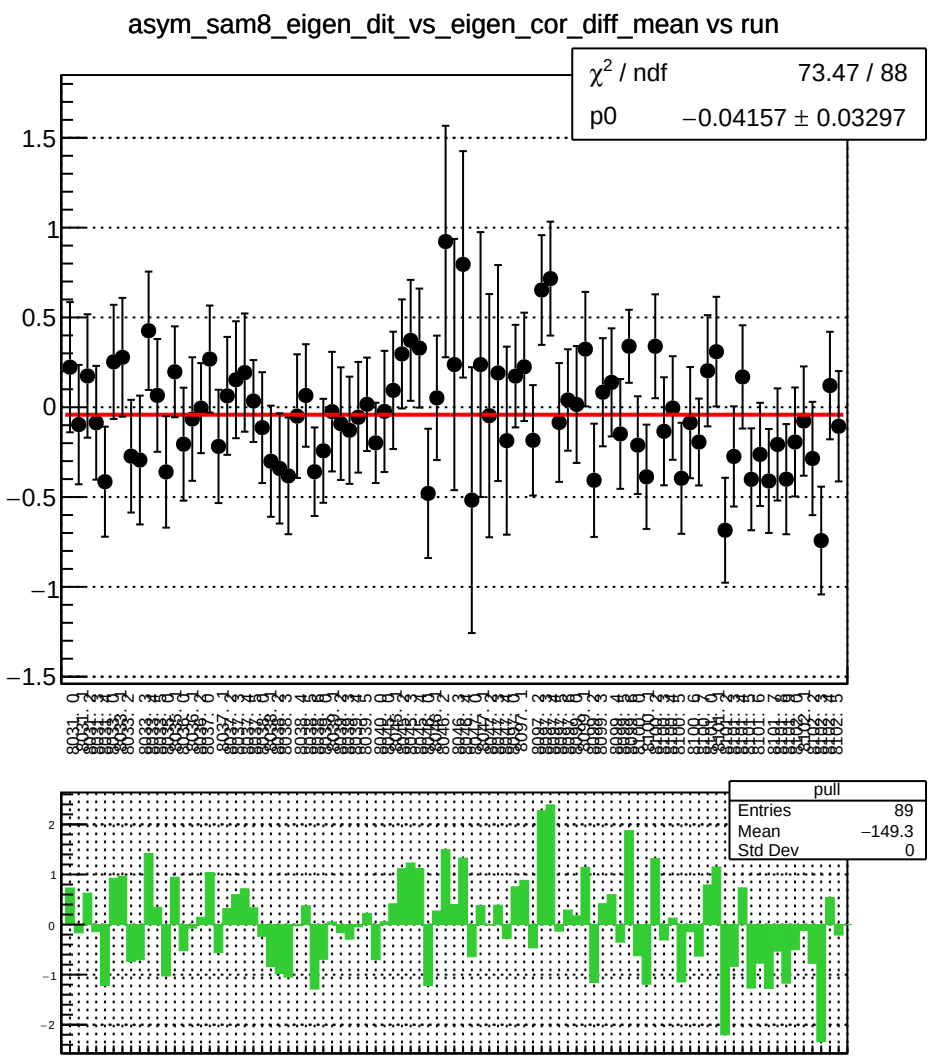

pull1D
Entries 89
Mean −0.003102
Std Dev 0.7715

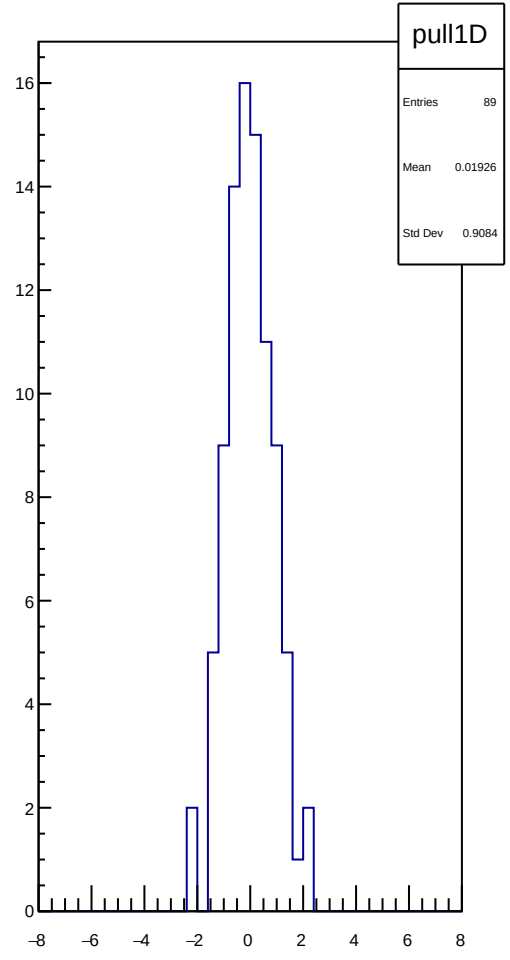

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 6.666e+04 / 88
p0 0.0005133 ± 3.96e−07
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4

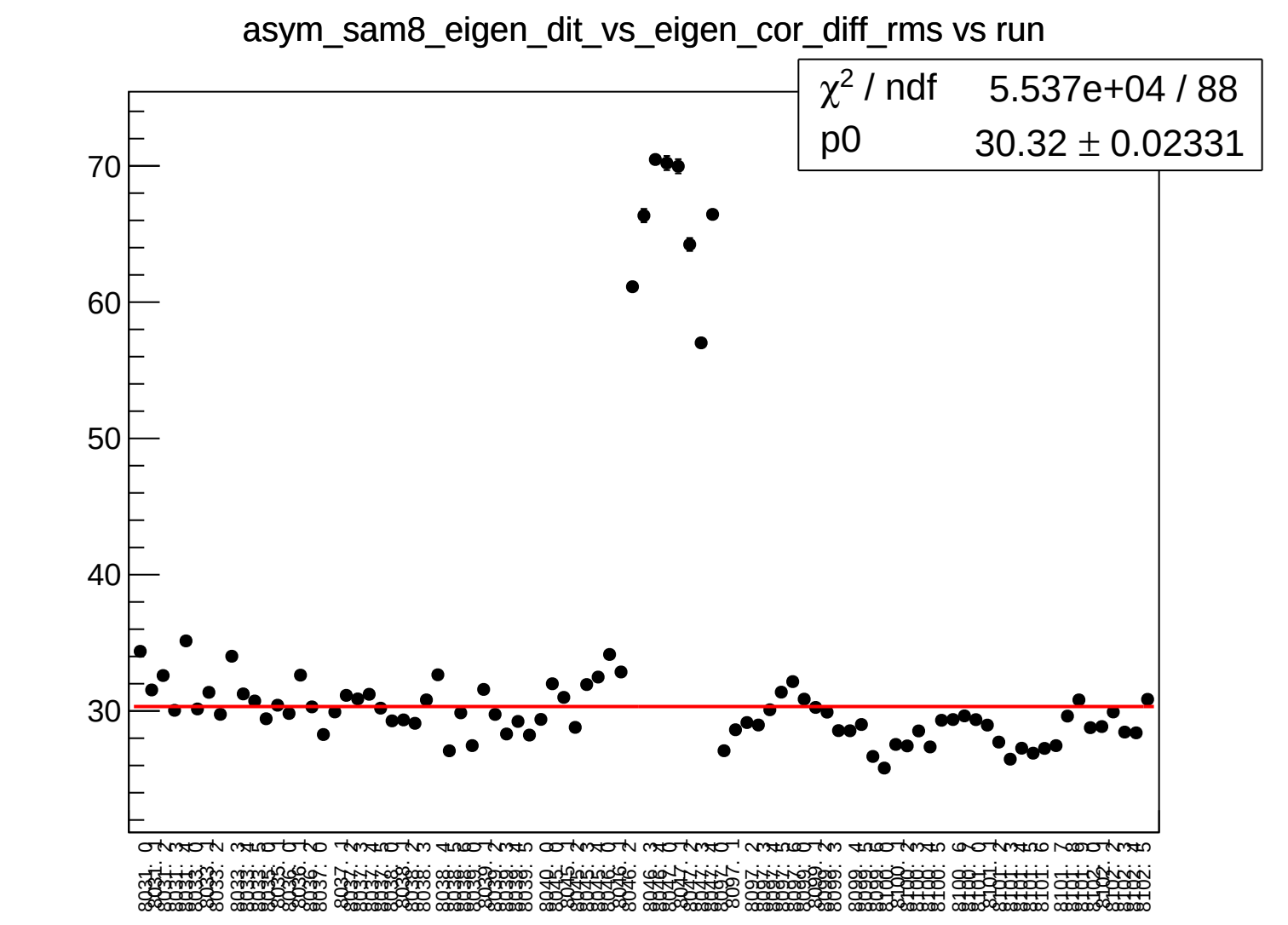

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.47 / 88
p0 −0.04157 ± 0.03297
pull
Entries 89
Mean −149.3
Std Dev 0

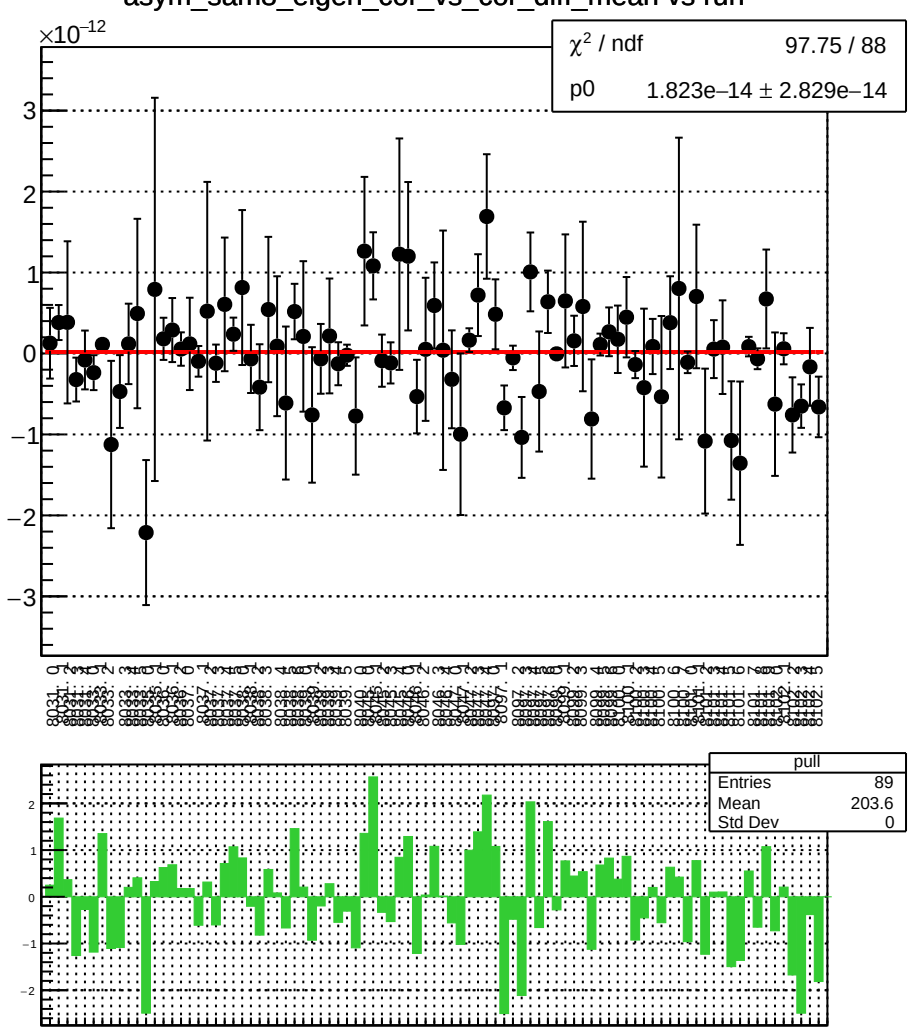

pull1D
Entries 89
Mean 0.01926
Std Dev 0.9084

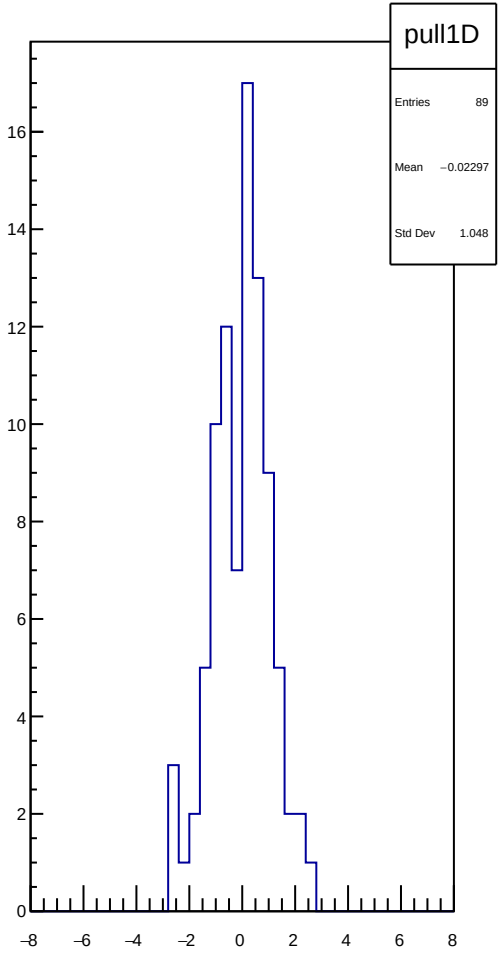

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.537e+04 / 88
p0 30.32 ± 0.02331
70
60
50
40
30

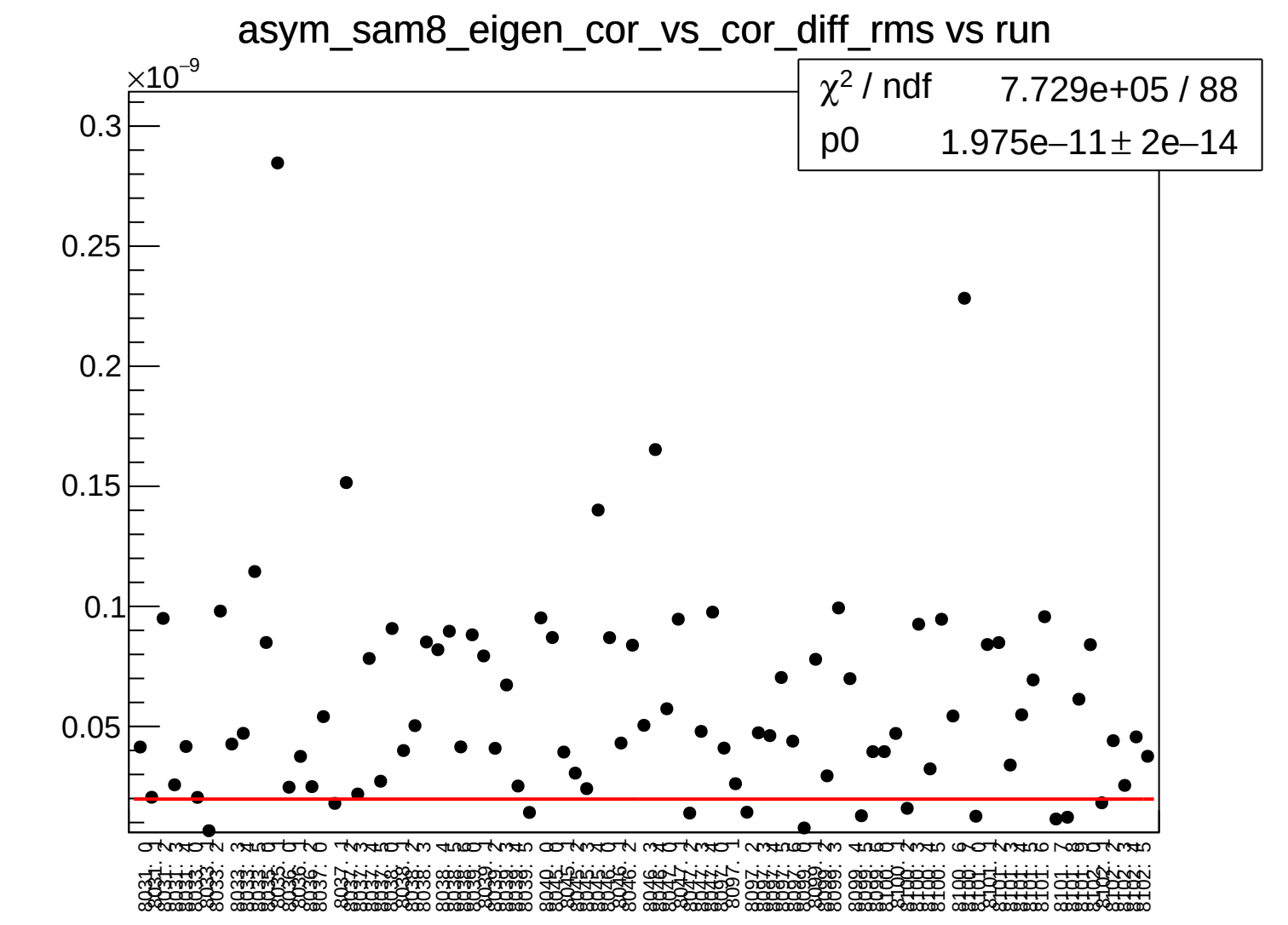

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.47 / 88
p0 −0.04157 ± 0.03297
pull
Entries 89
Mean −149.3
Std Dev 0

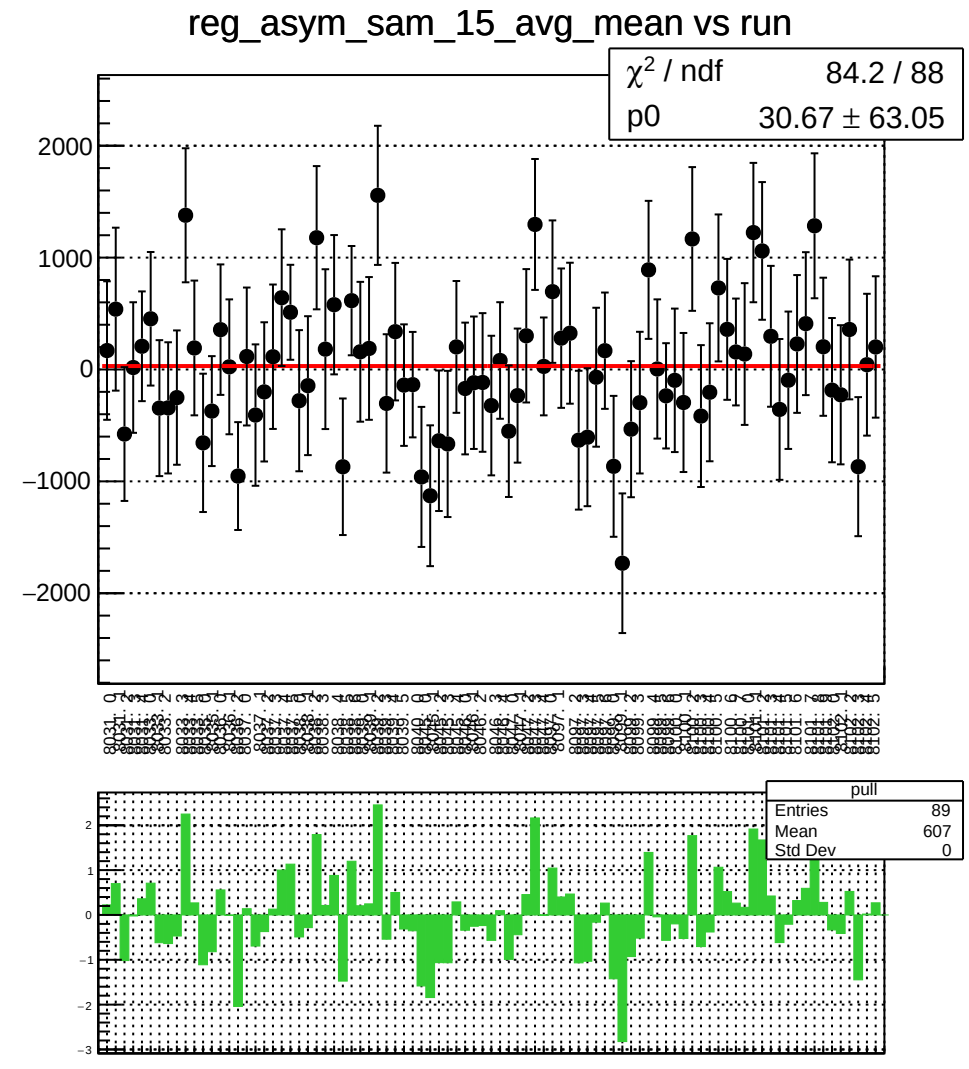

pull1D
Entries 89
Mean 0.01926
Std Dev 0.9084

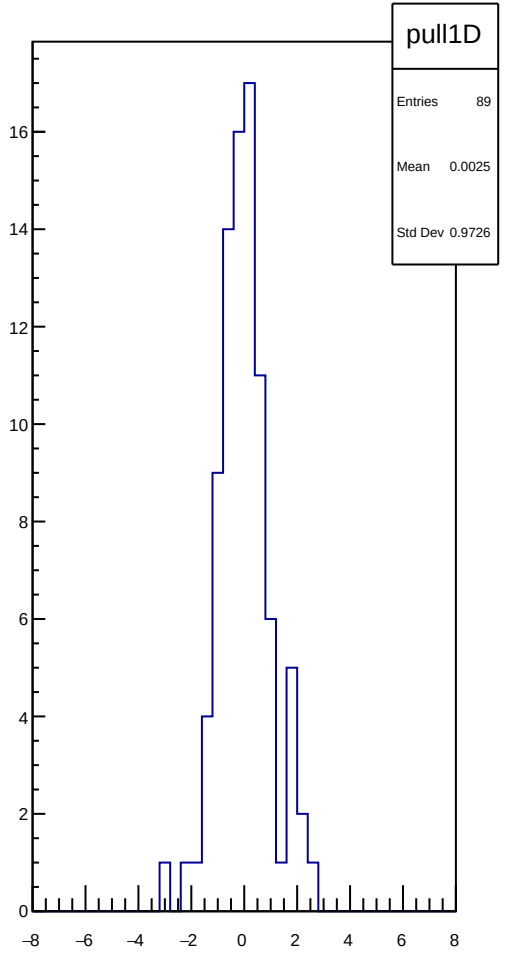

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.537e+04 / 88
p0 30.32 ± 0.02331
70
60
50
40
30

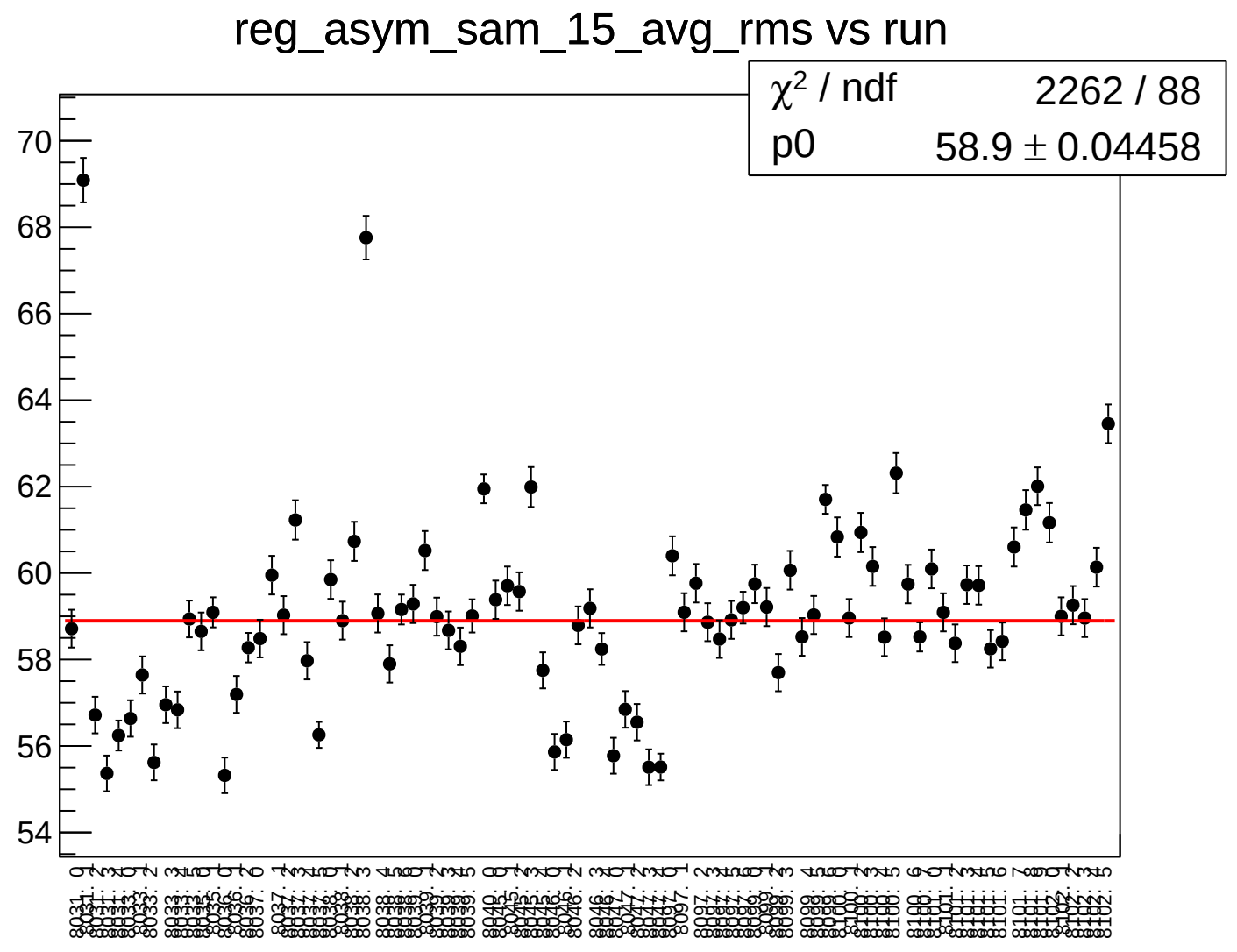

asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.75 / 88
p0 1.823e−14 ± 2.829e−14
pull
Entries 89
Mean 203.6
Std Dev 0

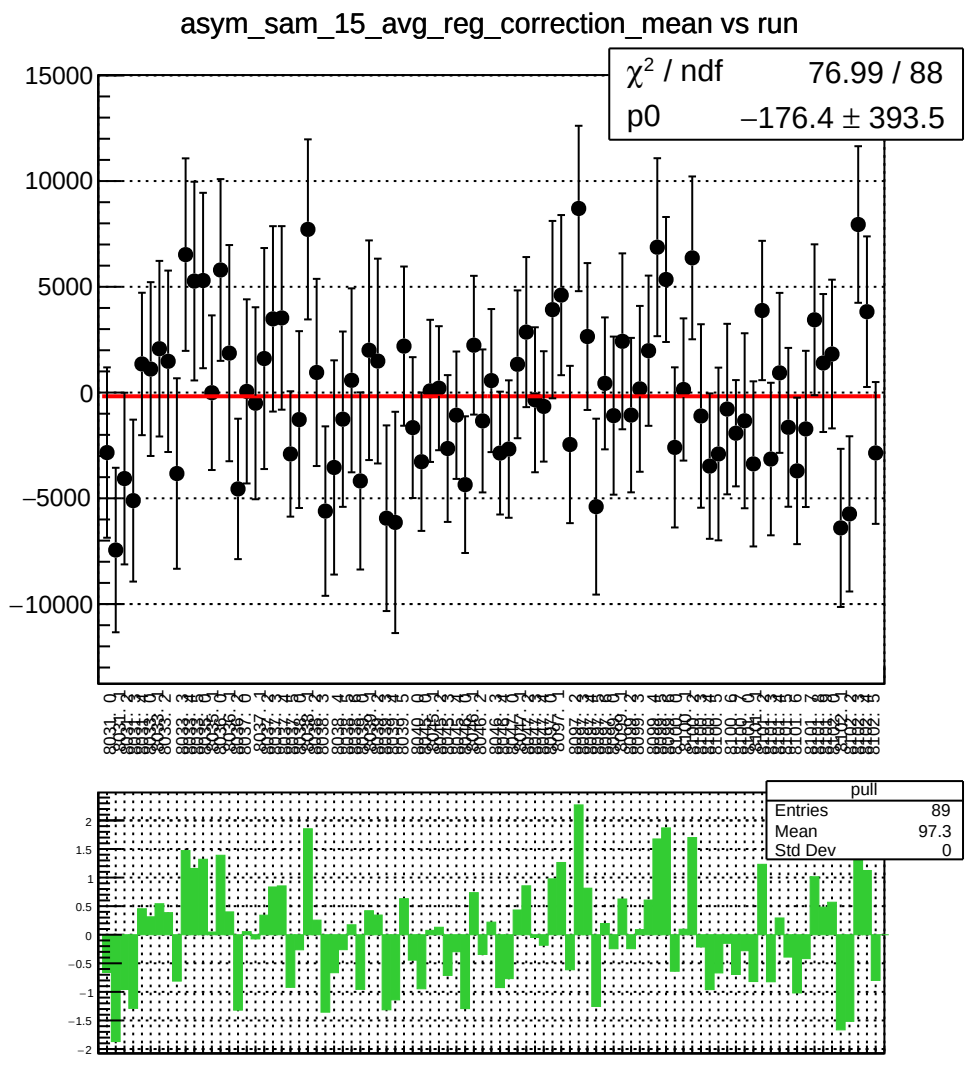

pull1D
Entries 89
Mean −0.02297
Std Dev 1.048

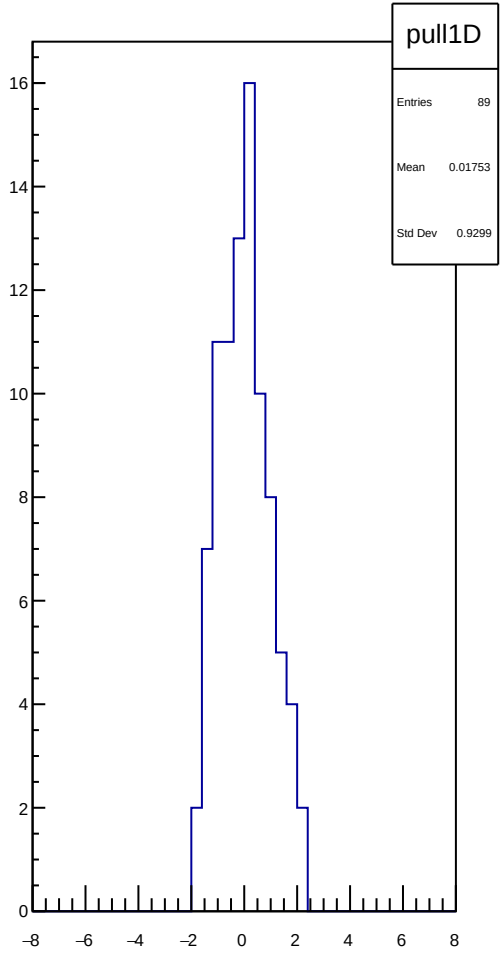

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.729e+05 / 88
p0 1.975e−11 ± 2e−14
0.3
0.25
0.2
0.15
0.1
0.05

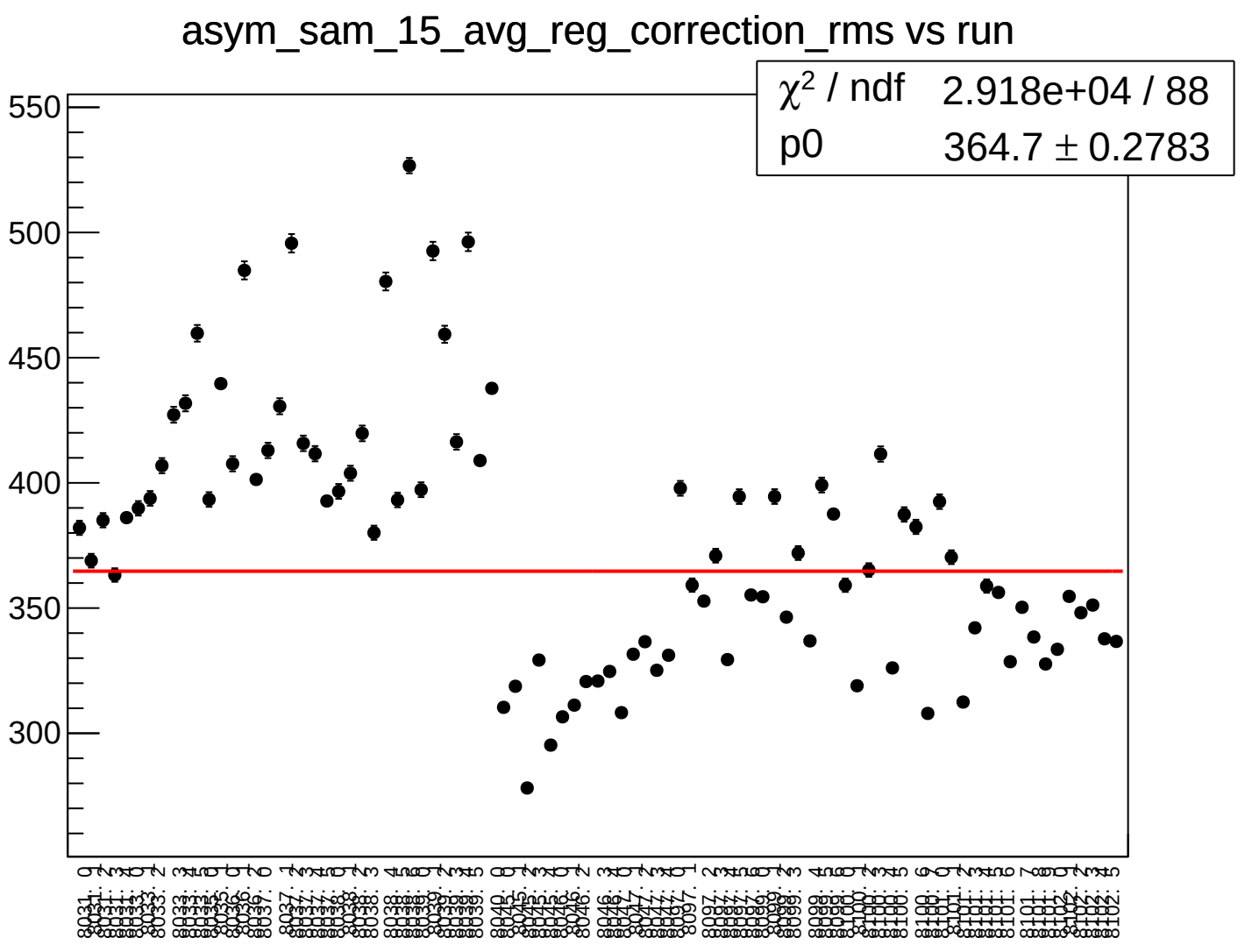

reg_asym_sam_15_avg_mean vs run
χ² / ndf 84.2 / 88
p0 30.67 ± 63.05
2000
1000
0
−1000
−2000
pull
Entries 89
Mean 607
Std Dev 0
2
1
0
−1
−2
−3

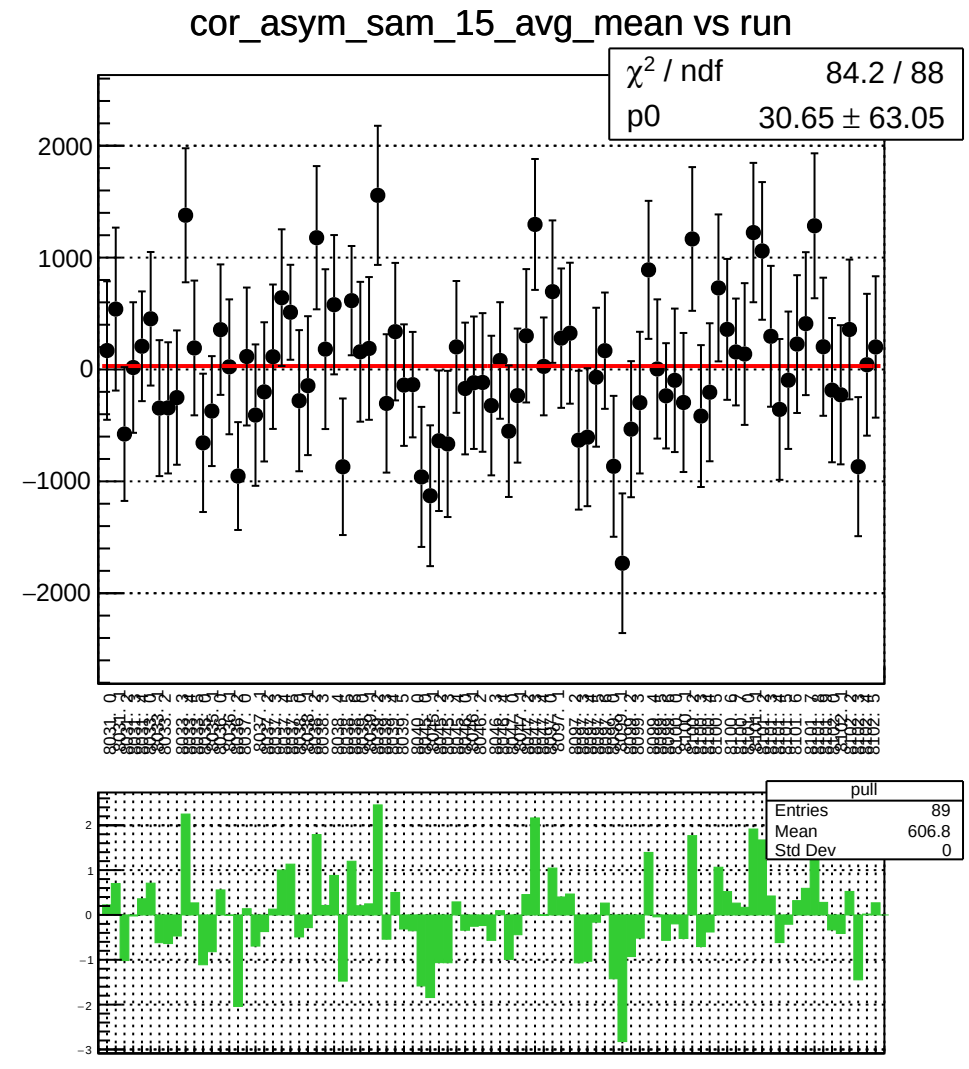

pull1D
Entries 89
Mean 0.0025
Std Dev 0.9726
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

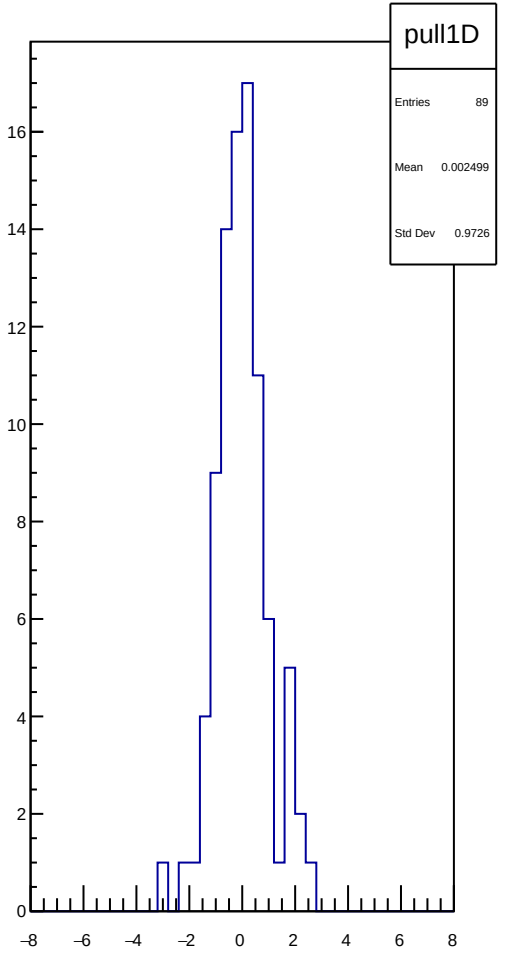

reg_asym_sam_15_avg_rms vs run
$\chi^2$ / ndf 2262 / 88
p0 58.9 ± 0.04458
70
68
66
64
62
60
58
56
54

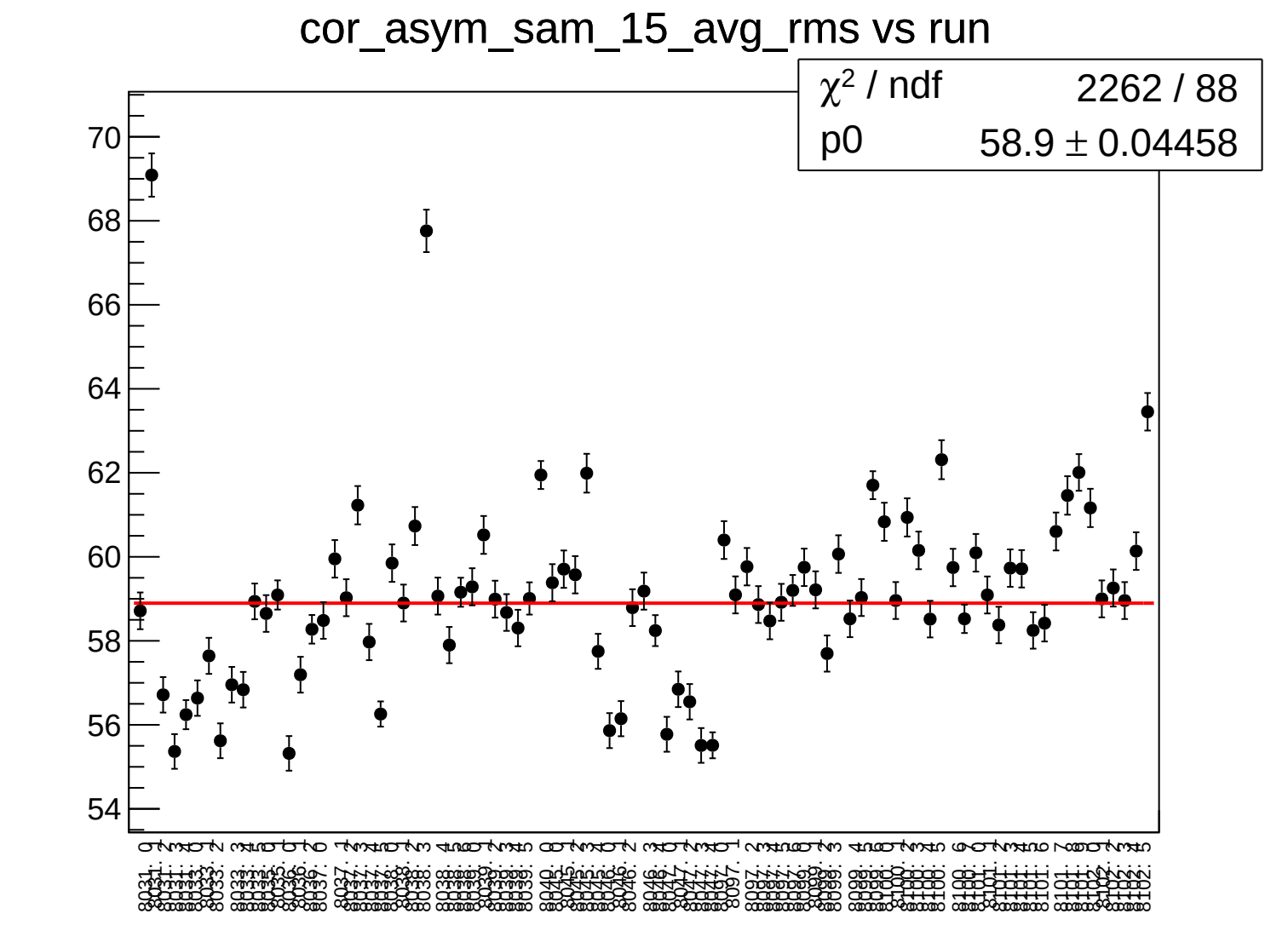

asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 76.99 / 88
p0 −176.4 ± 393.5
15000
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 97.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

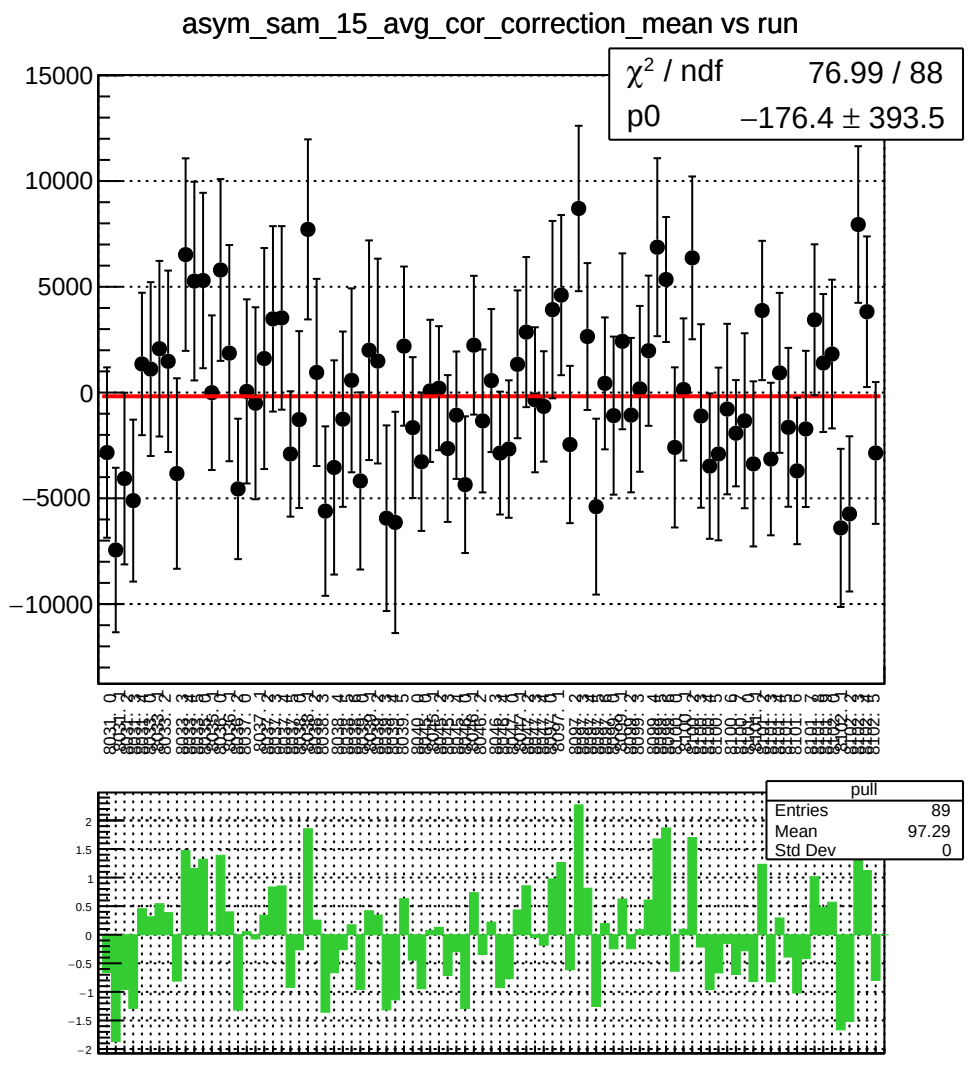

pull1D
Entries 89
Mean 0.01753
Std Dev 0.9299
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

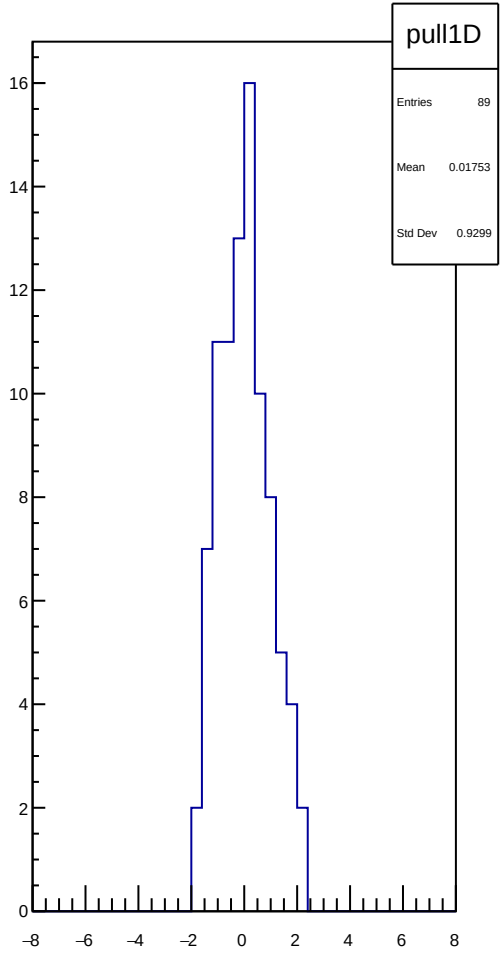

asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 2.918e+04 / 88
p0 364.7 ± 0.2783
550
500
450
400
350
300

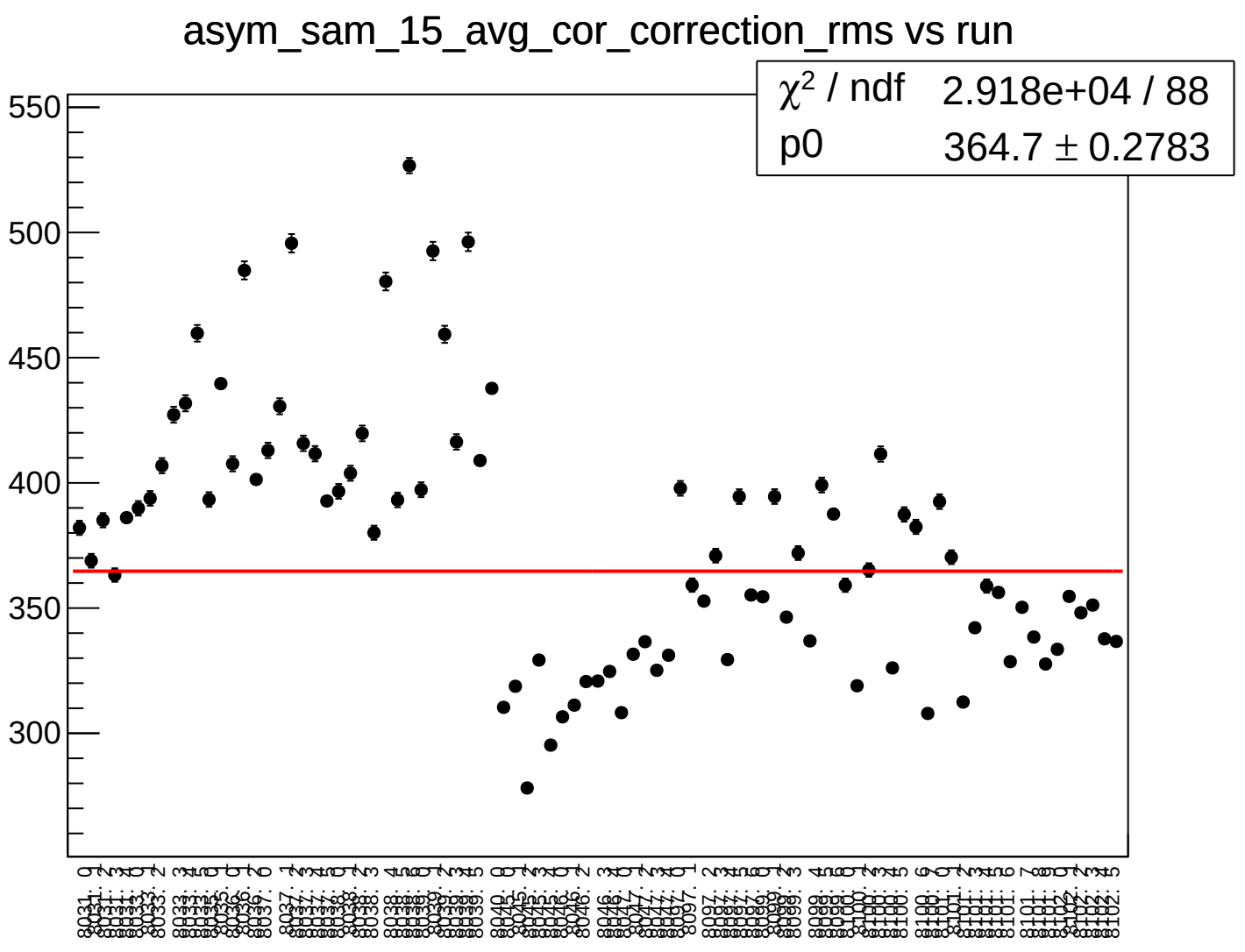

cor_asym_sam_15_avg_mean vs run
χ² / ndf 84.2 / 88
p0 30.65 ± 63.05
2000
1000
0
−1000
−2000
pull
Entries 89
Mean 606.8
Std Dev 0
2
1
0
−1
−2
−3

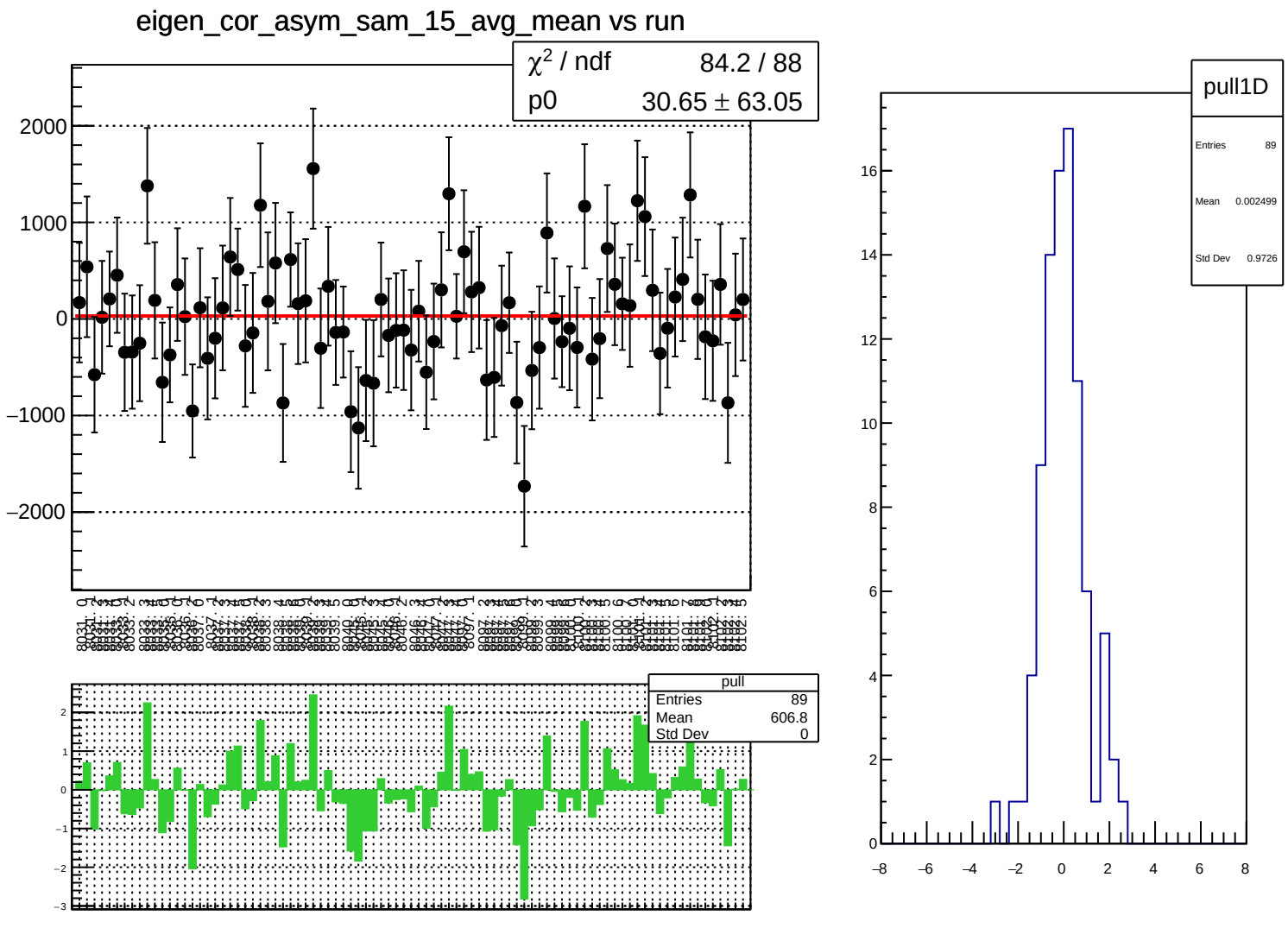

pull1D
Entries 89
Mean 0.002499
Std Dev 0.9726
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

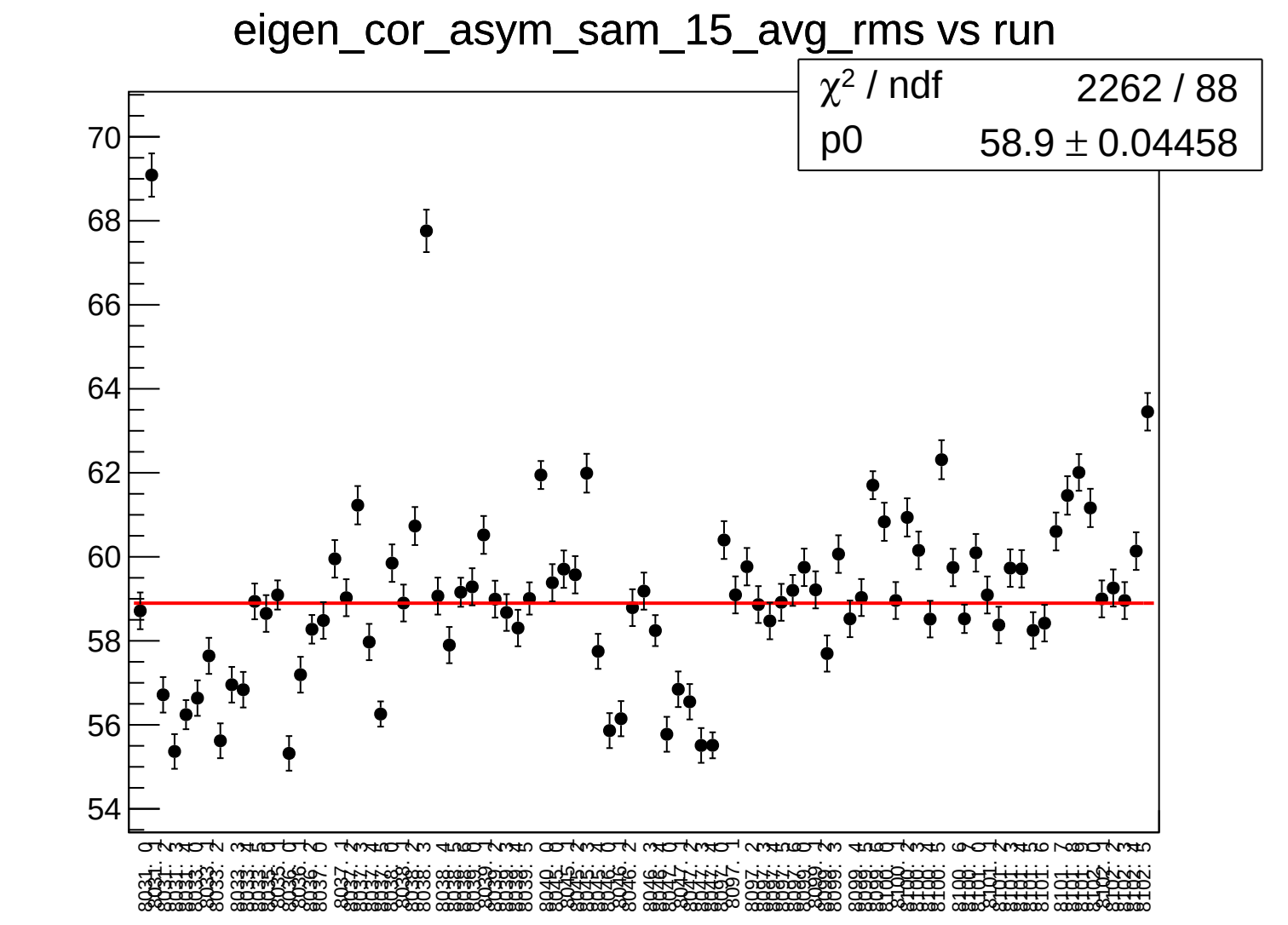

cor_asym_sam_15_avg_rms vs run
$\chi^2$ / ndf 2262 / 88
p0 58.9 ± 0.04458
70
68
66
64
62
60
58
56
54

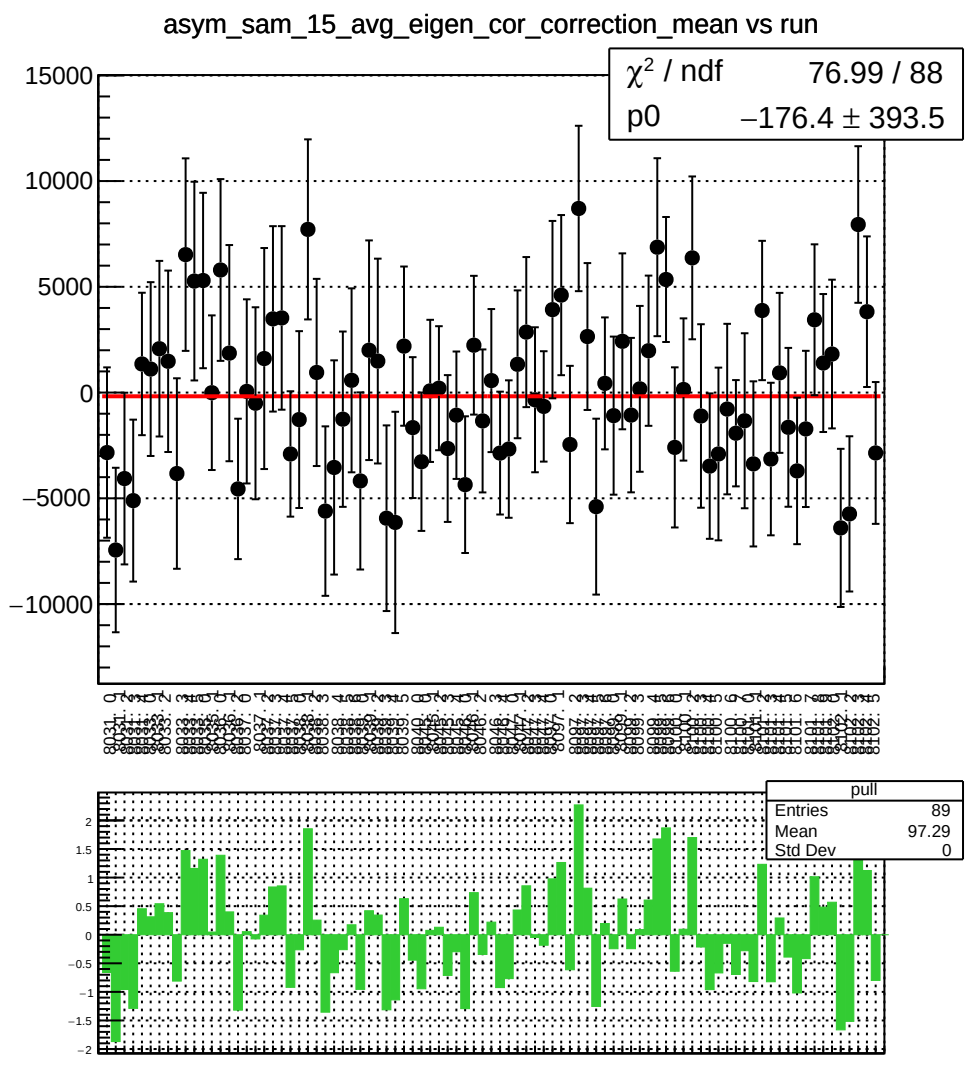

asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 76.99 / 88
p0 −176.4 ± 393.5
15000
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 97.29
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

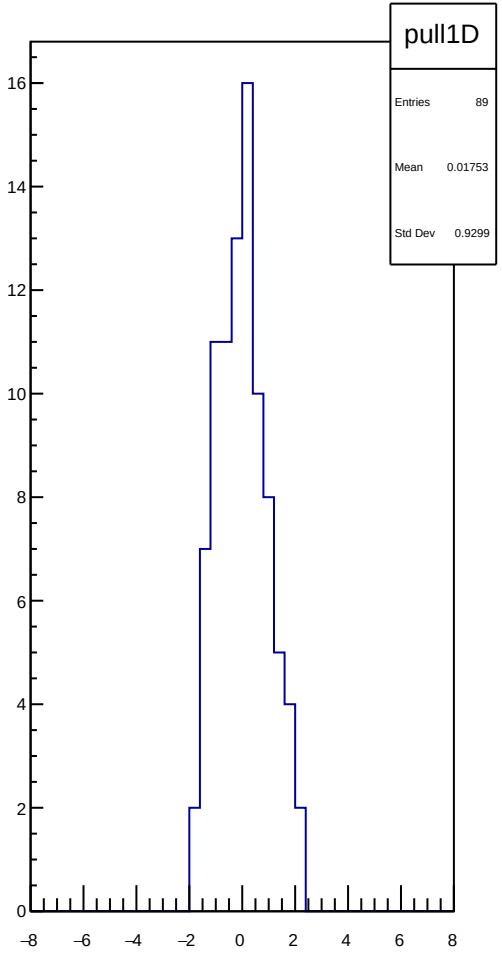

pull1D
Entries 89
Mean 0.01753
Std Dev 0.9299
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

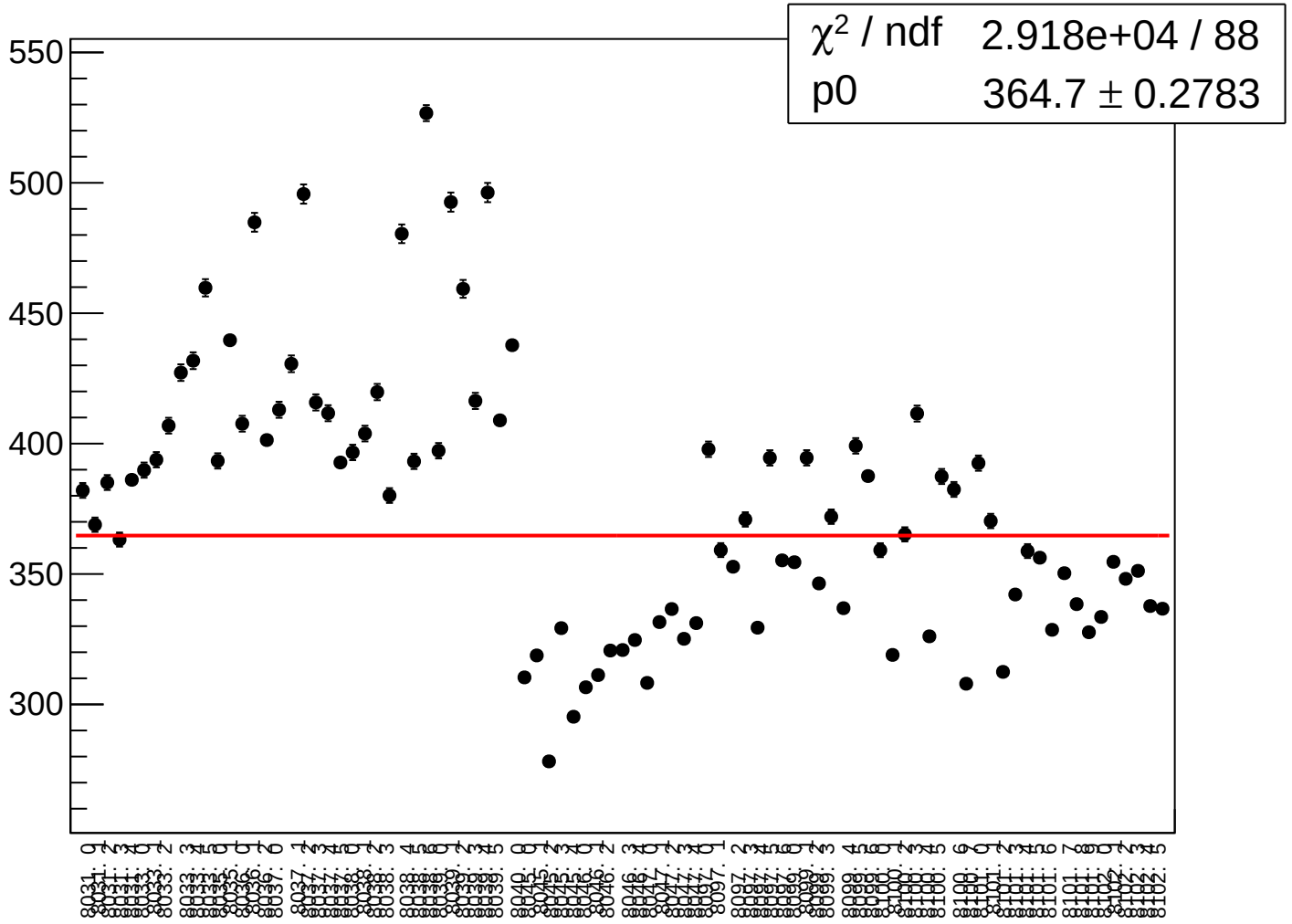

asym_sam_15_avg_cor_correction_rms vs run
$\chi^2$ / ndf 2.918e+04 / 88
p0 364.7 ± 0.2783
550
500
450
400
350
300

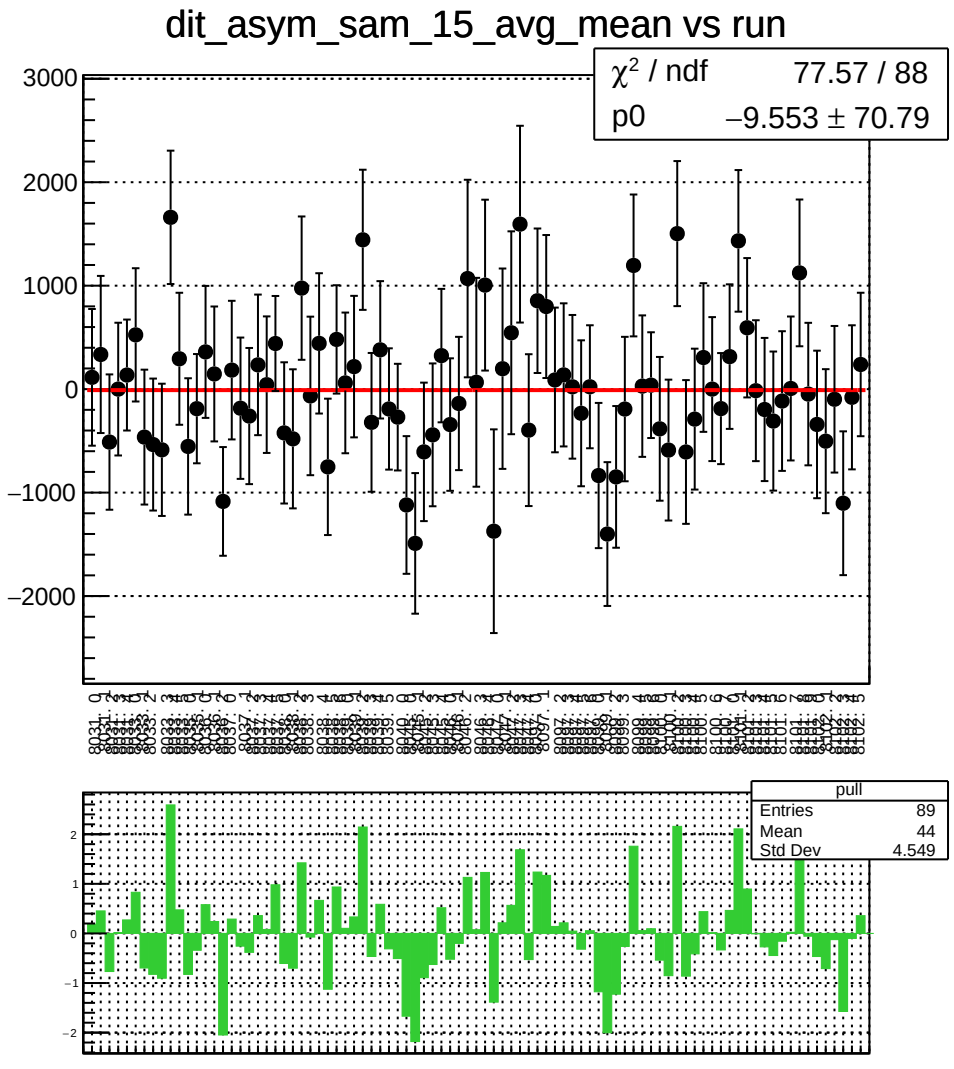

eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 84.2 / 88
p0 30.65 ± 63.05
2000
1000
0
−1000
−2000
pull
Entries 89
Mean 606.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.002499
Std Dev 0.9726
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

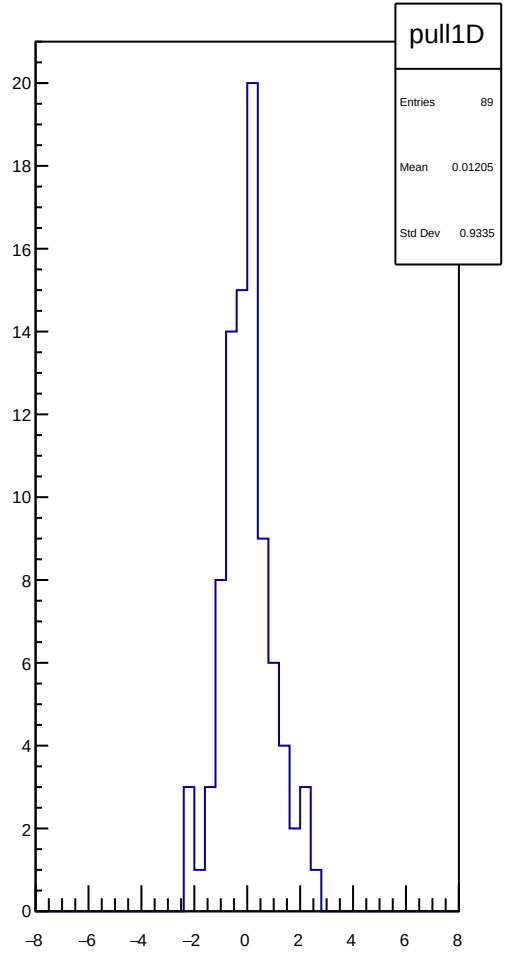

eigen_cor_asym_sam_15_avg_rms vs run
$\chi^2$ / ndf 2262 / 88
p0 58.9 ± 0.04458
70
68
66
64
62
60
58
56
54

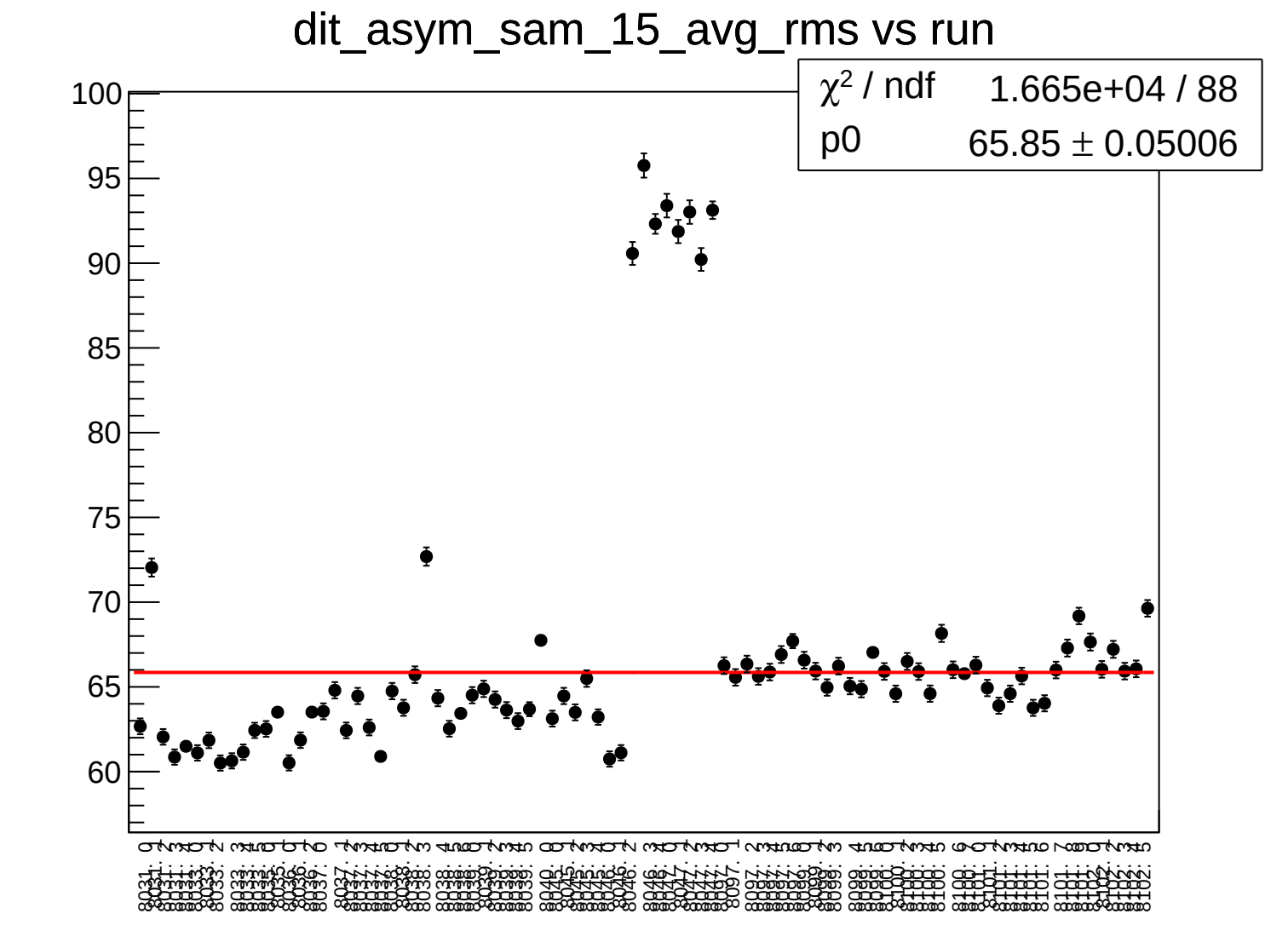

asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 76.99 / 88
p0 −176.4 ± 393.5
15000
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 97.29
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

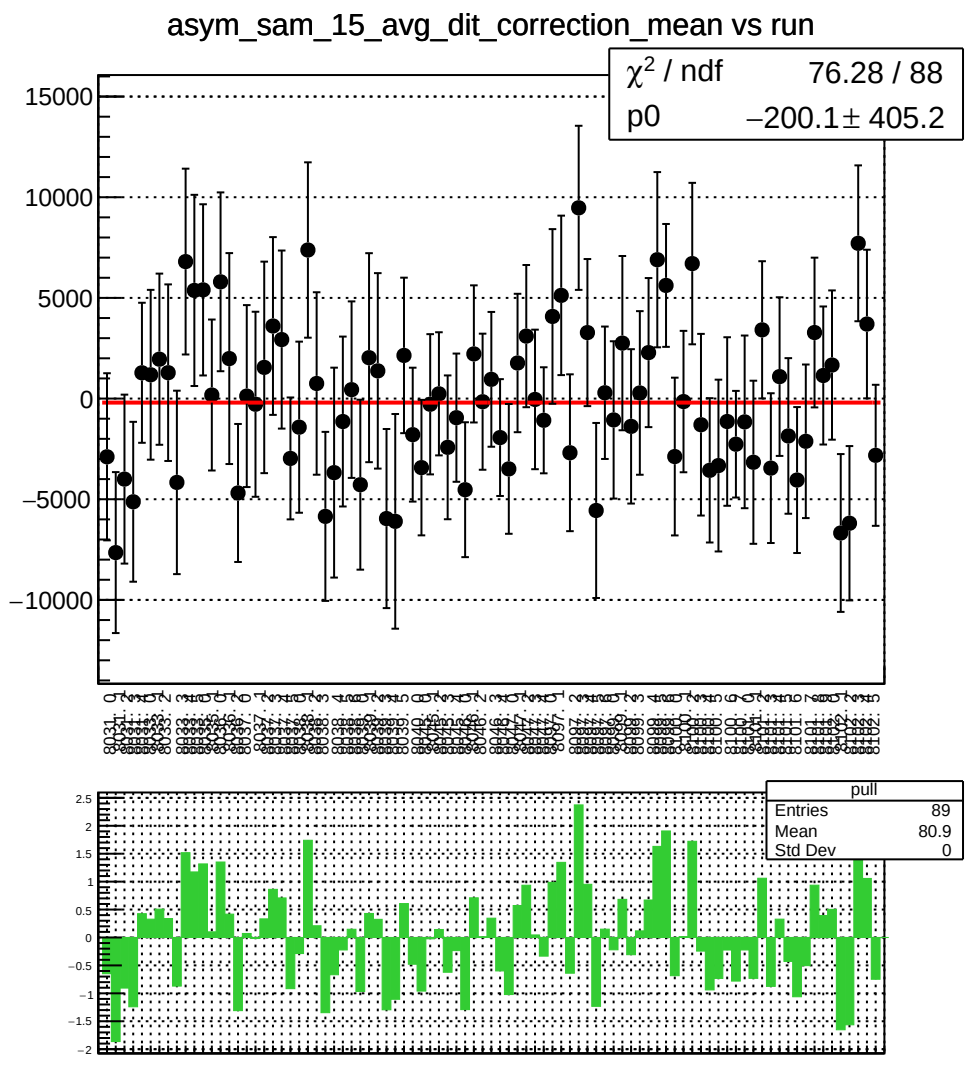

pull1D
Entries 89
Mean 0.01753
Std Dev 0.9299
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

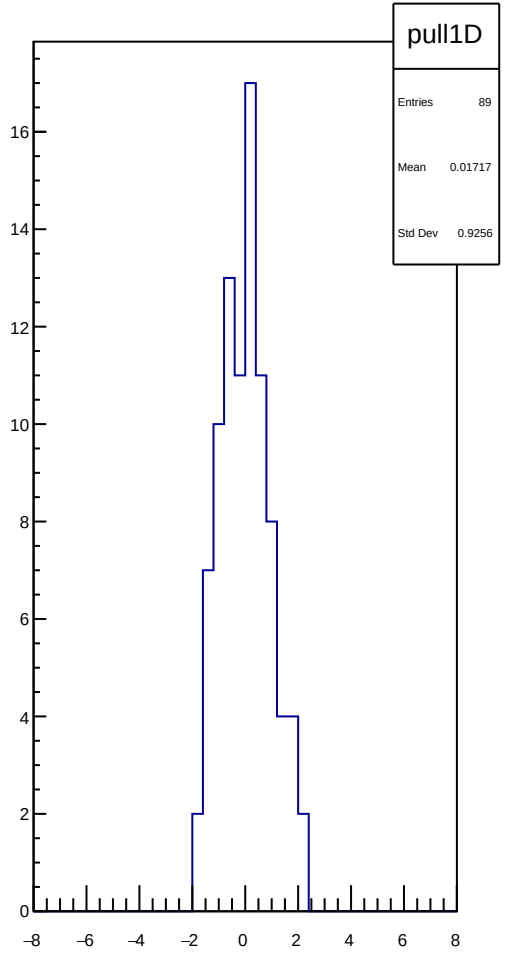

asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.918e+04 / 88
p0 364.7 ± 0.2783
550
500
450
400
350
300

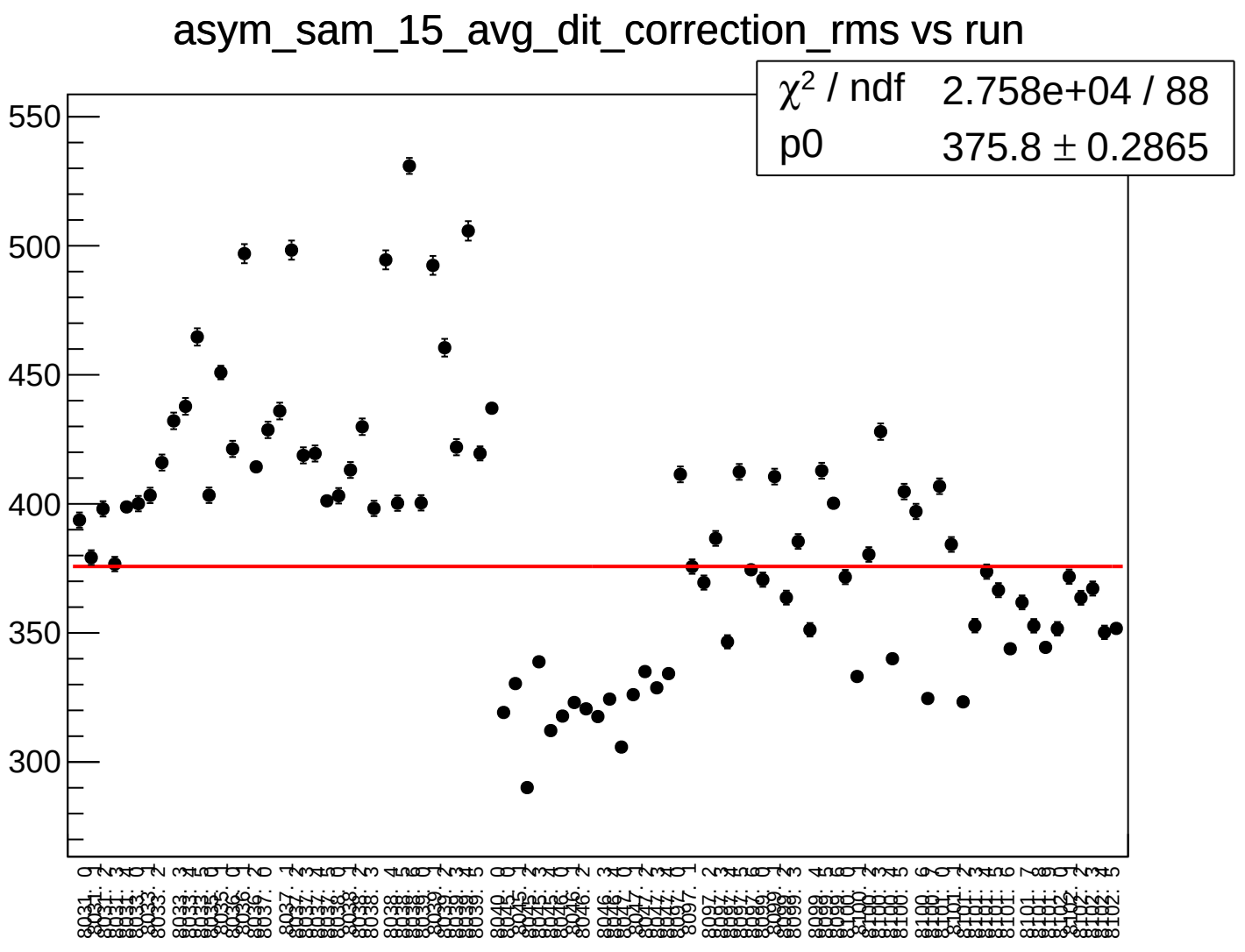

dit_asym_sam_15_avg_mean vs run
χ² / ndf 77.57 / 88
p0 −9.553 ± 70.79
3000
2000
1000
0
−1000
−2000
pull
Entries 89
Mean 44
Std Dev 4.549
2
1
0
−1
−2

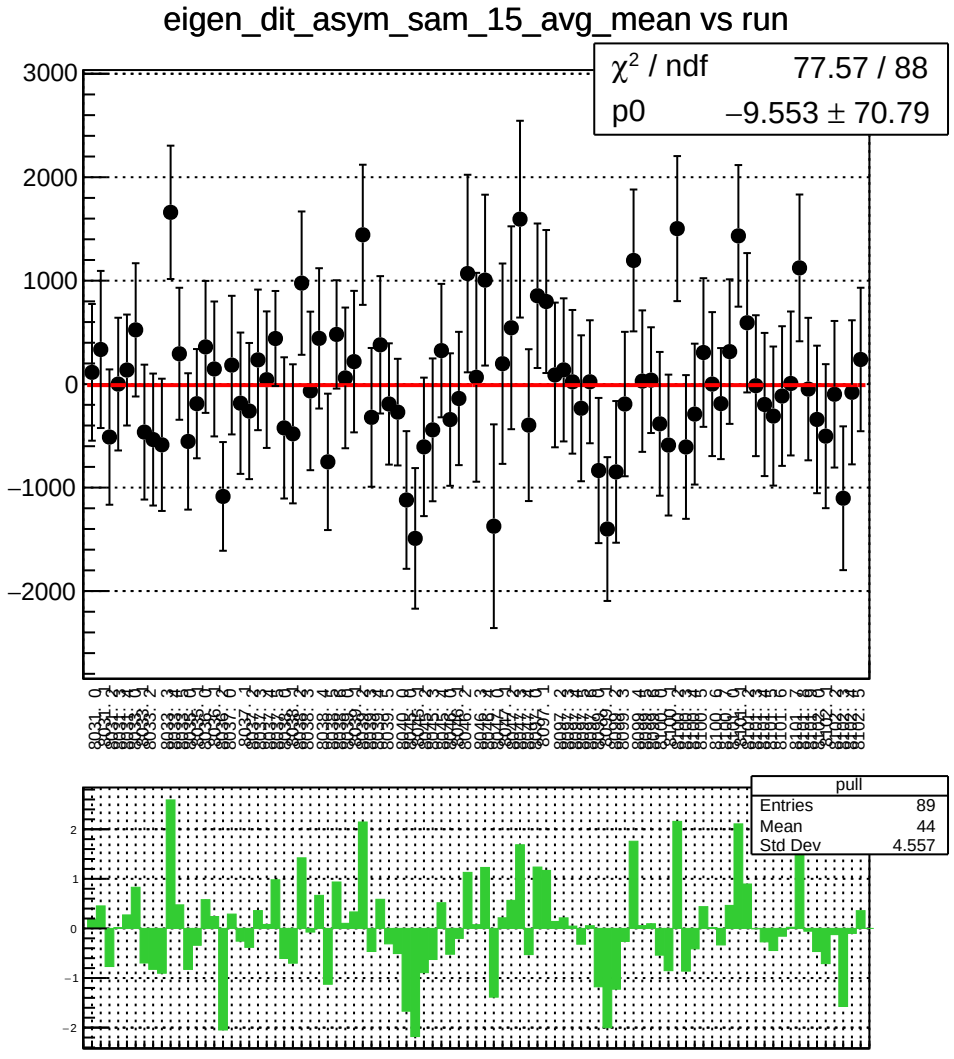

pull1D
Entries 89
Mean 0.01205
Std Dev 0.9335
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

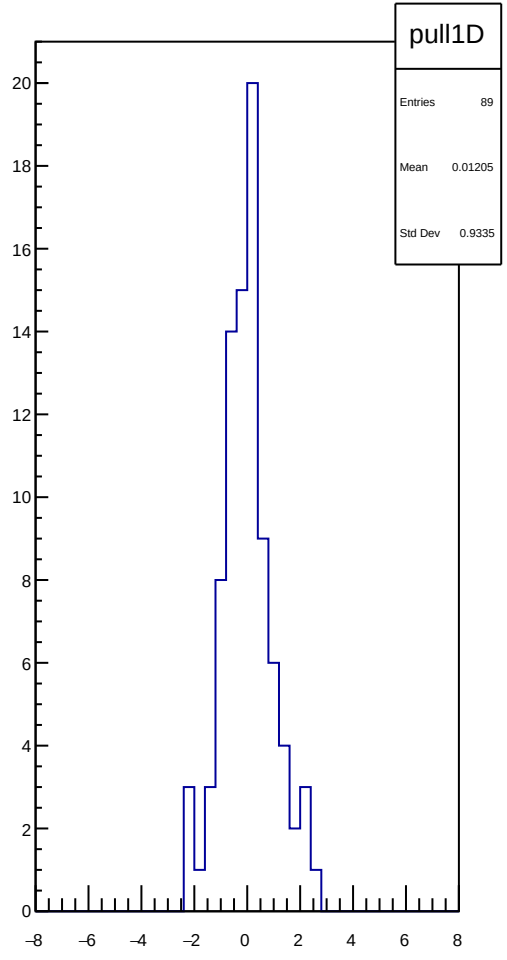

dit_asym_sam_15_avg_rms vs run
$\chi^2$ / ndf 1.665e+04 / 88
p0 65.85 ± 0.05006
100
95
90
85
80
75
70
65
60

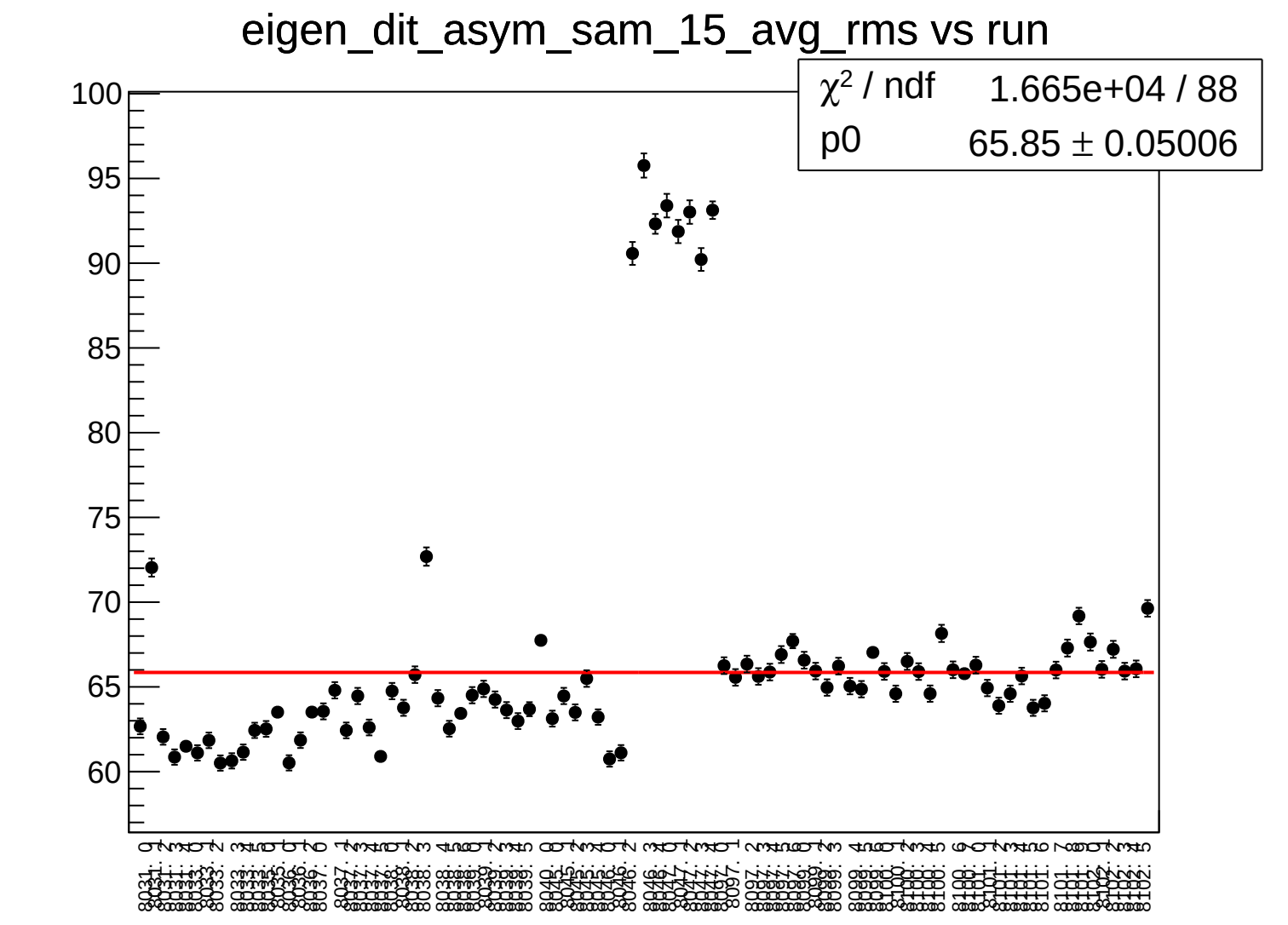

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 76.28 / 88
p0 −200.1± 405.2
15000
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 80.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

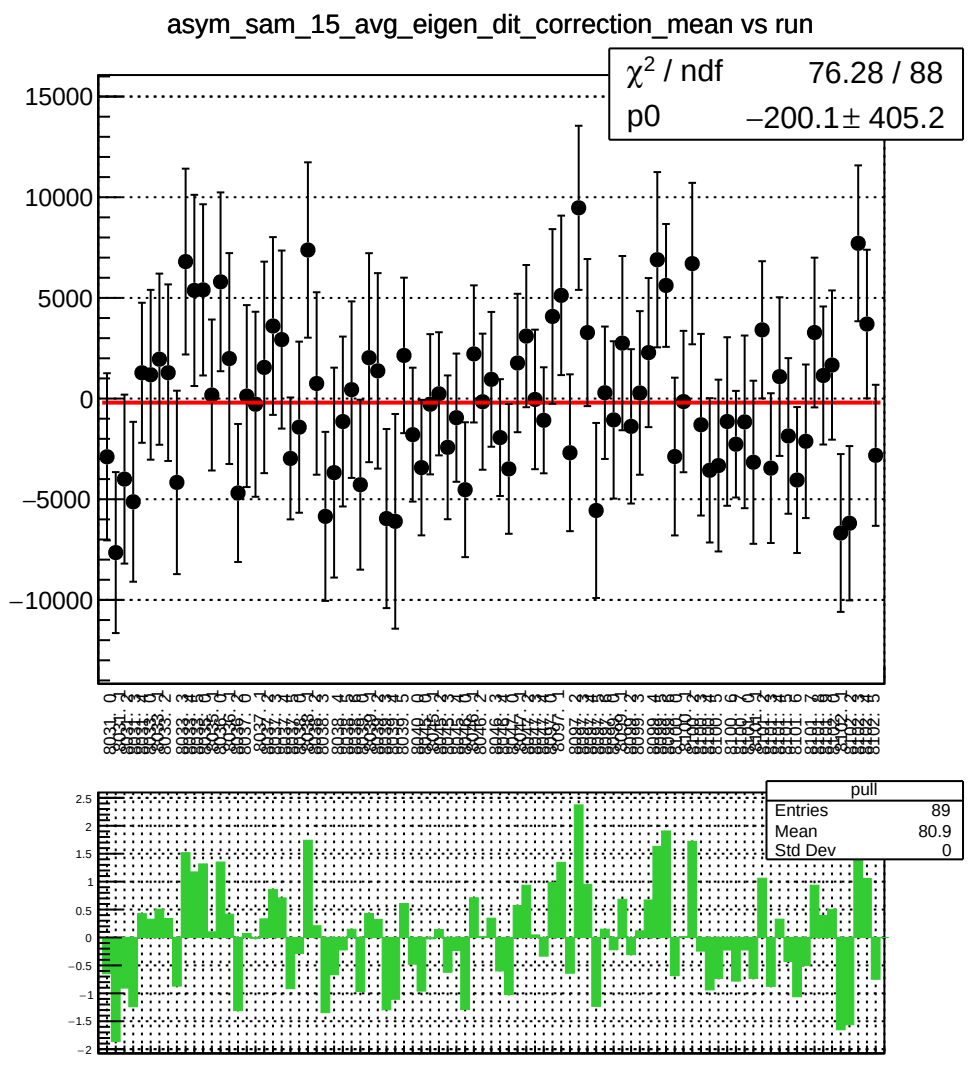

pull1D
Entries 89
Mean 0.01717
Std Dev 0.9256
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

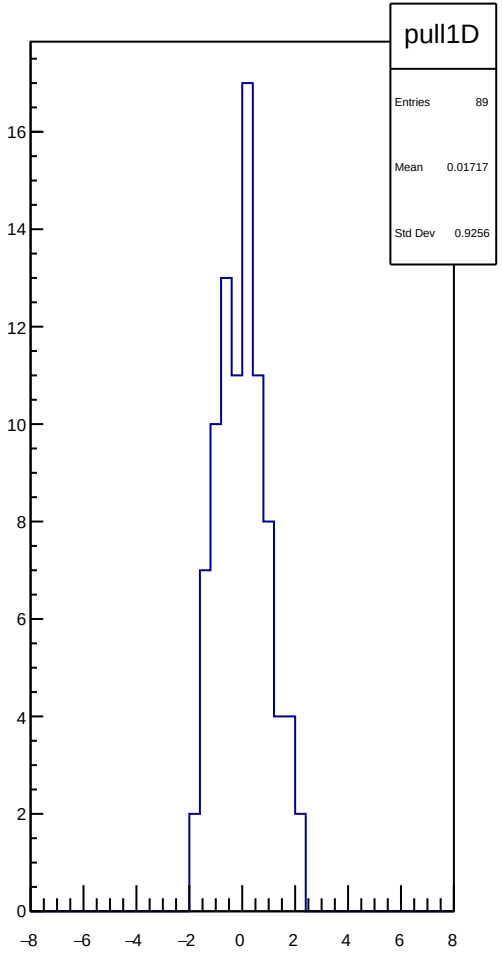

asym_sam_15_avg_dit_correction_rms vs run
χ² / ndf 2.758e+04 / 88
p0 375.8 ± 0.2865
550
500
450
400
350
300

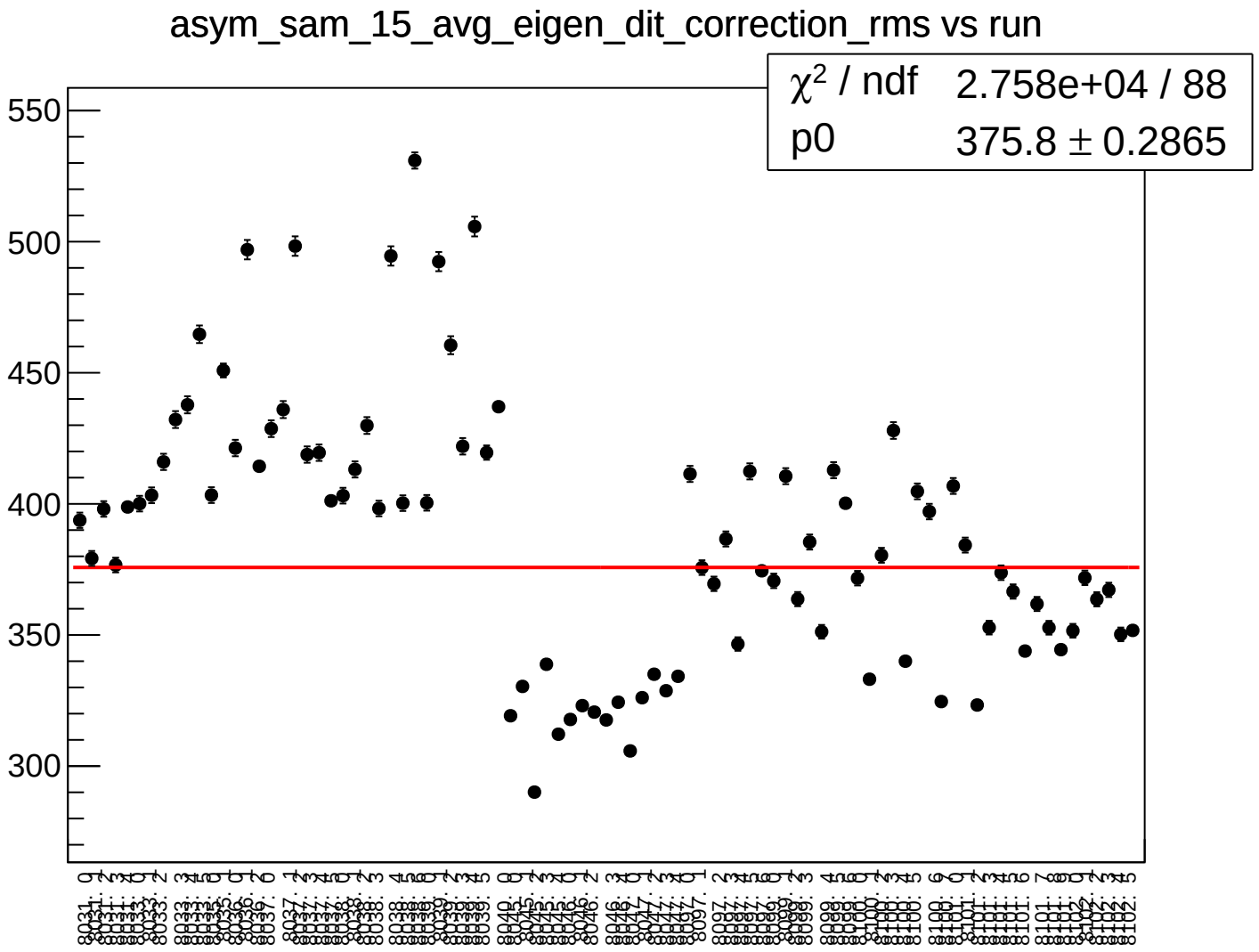

eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 77.57 / 88
p0 −9.553 ± 70.79
3000
2000
1000
0
−1000
−2000
pull
Entries 89
Mean 44
Std Dev 4.557
2
1
0
−1
−2

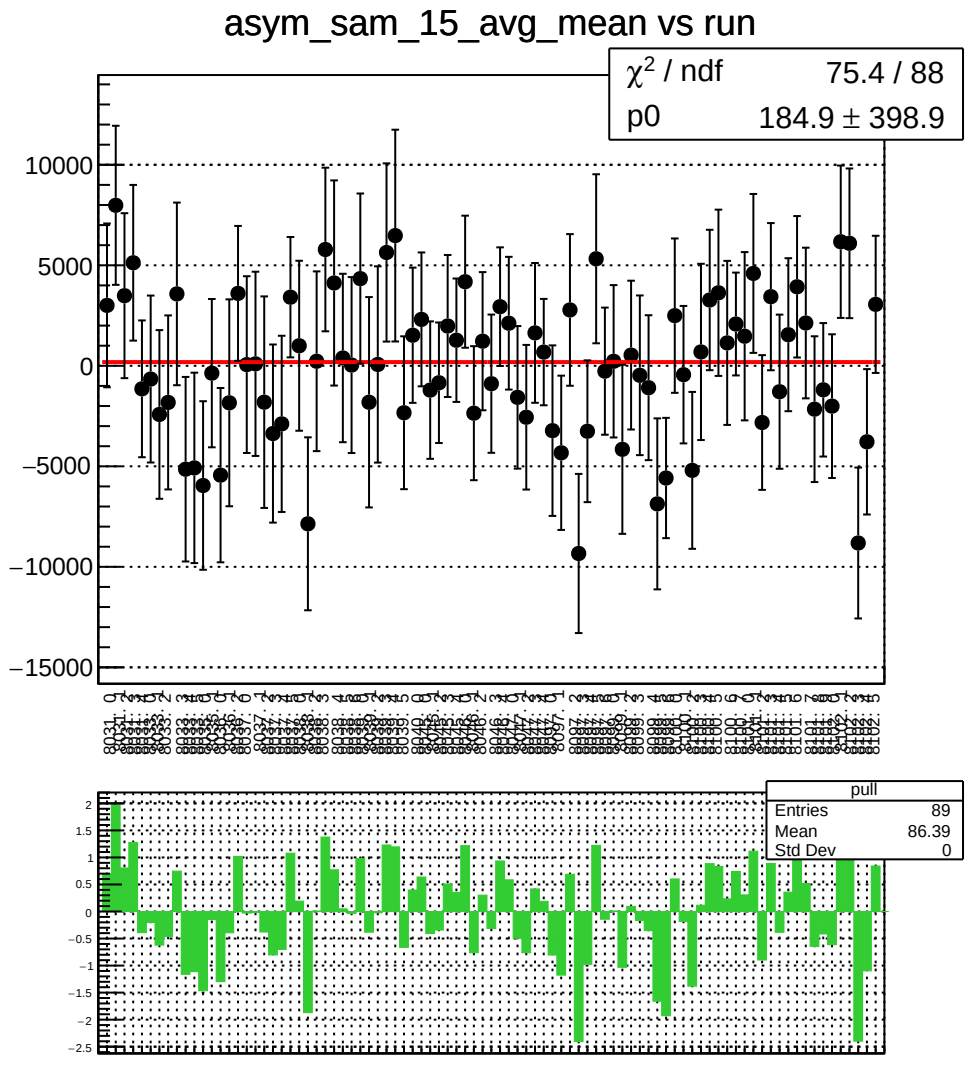

pull1D
Entries 89
Mean 0.01205
Std Dev 0.9335
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

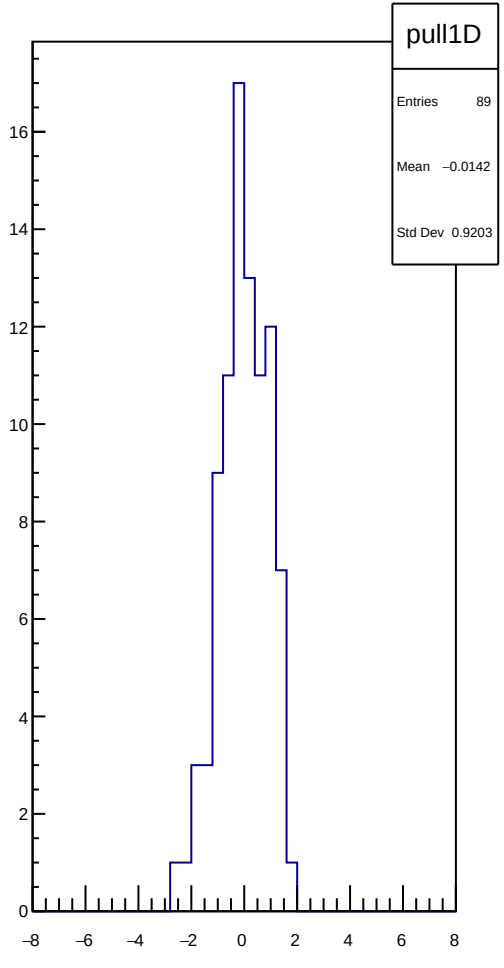

eigen_dit_asym_sam_15_avg_rms vs run
$\chi^2$ / ndf 1.665e+04 / 88
p0 65.85 ± 0.05006
100
95
90
85
80
75
70
65
60

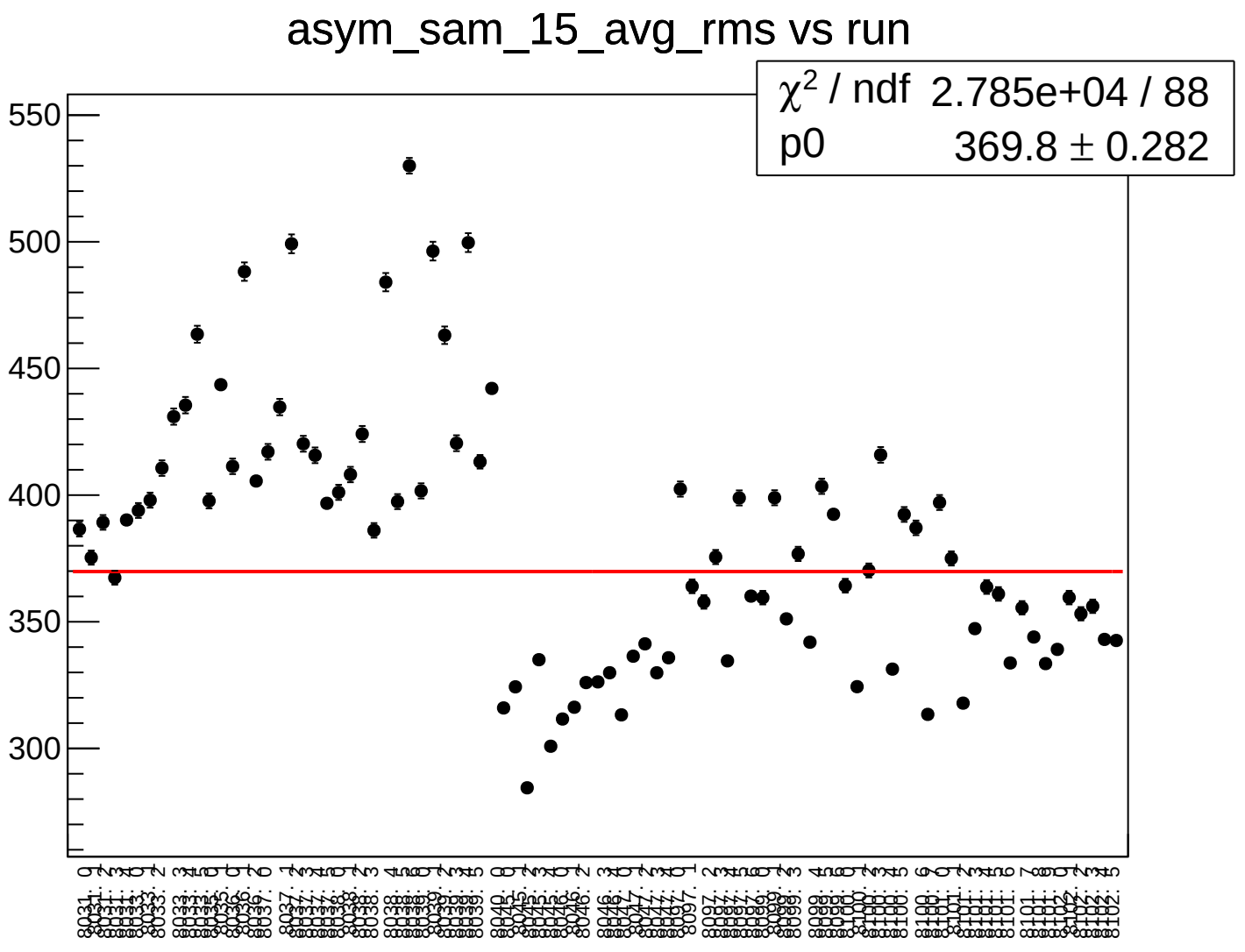

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 76.28 / 88
p0 −200.1± 405.2
15000
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 80.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

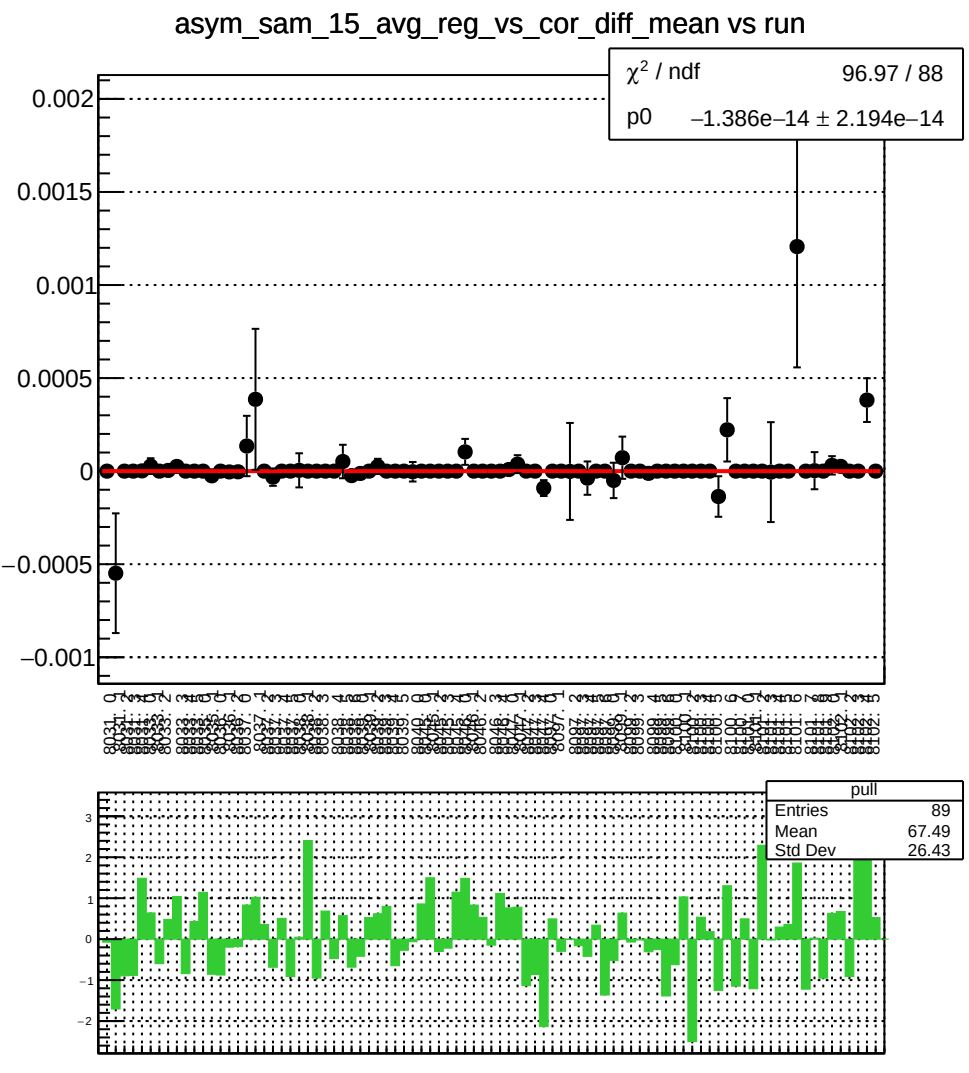

pull1D
Entries 89
Mean 0.01717
Std Dev 0.9256
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

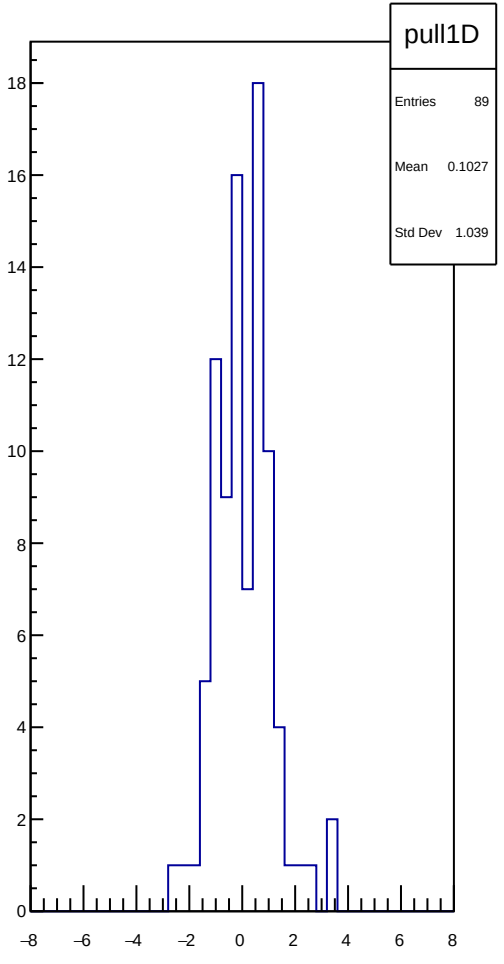

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.758e+04 / 88
p0 375.8 ± 0.2865
550
500
450
400
350
300


asym_sam_15_avg_mean vs run
χ² / ndf 75.4 / 88
p0 184.9 ± 398.9
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 86.39
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 89
Mean −0.0142
Std Dev 0.9203
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_avg_rms vs run
$\chi^2$ / ndf 2.785e+04 / 88
p0 369.8 ± 0.282
550
500
450
400
350
300


asym_sam_15_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 96.97 / 88
p0 −1.386e−14 ± 2.194e−14
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 89
Mean 67.49
Std Dev 26.43
3
2
1
0
−1
−2


pull1D
Entries 89
Mean 0.1027
Std Dev 1.039
18
16
14
12
10
8
6
4
2
0
−8
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−4
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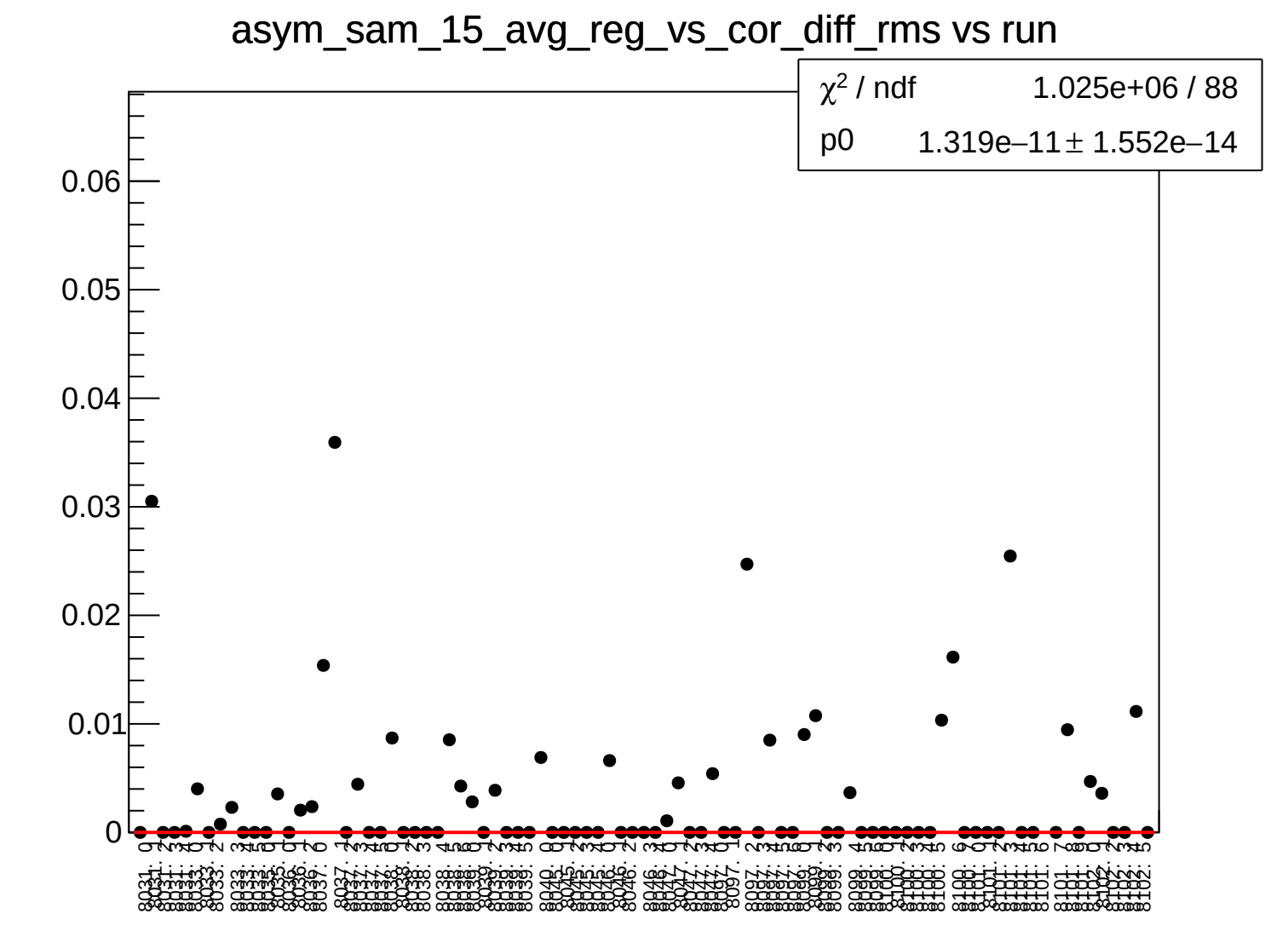
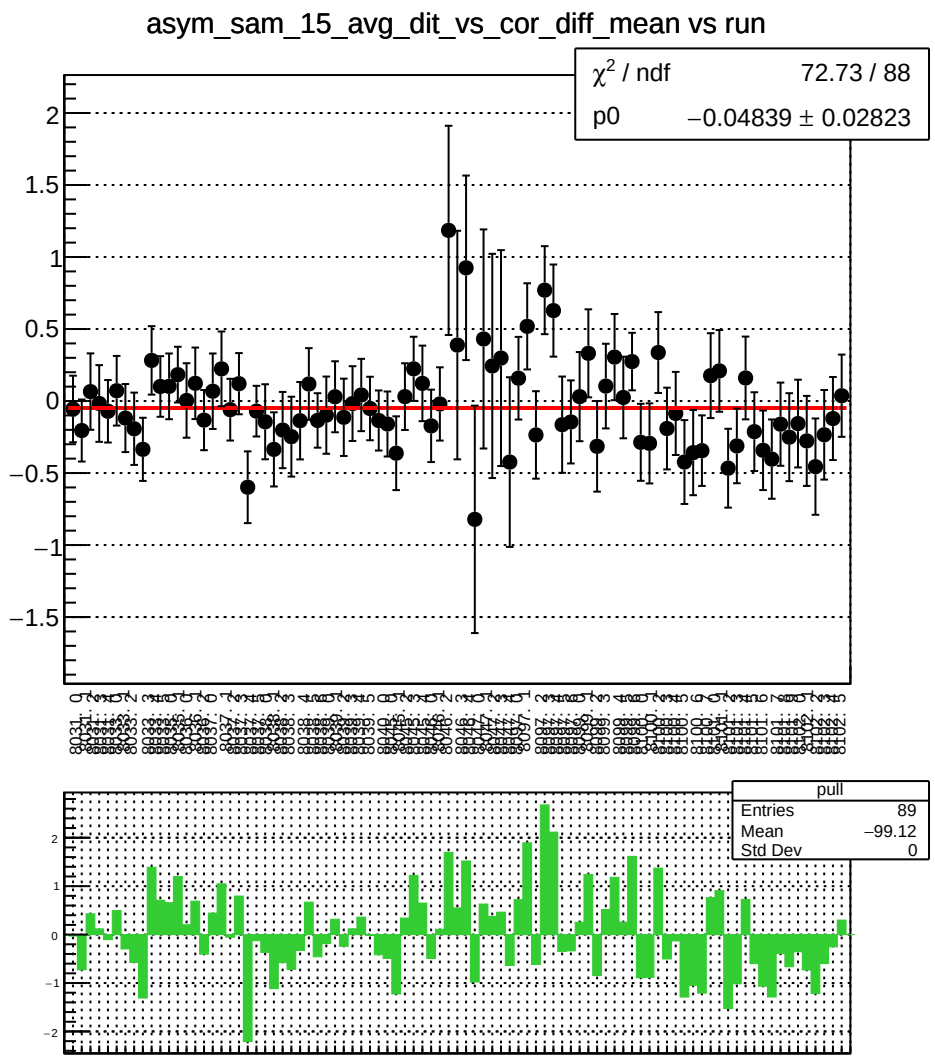
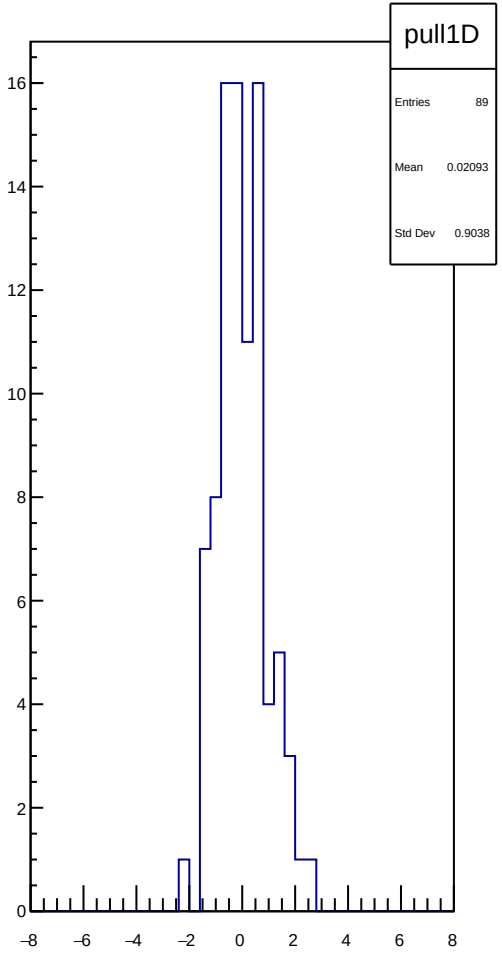
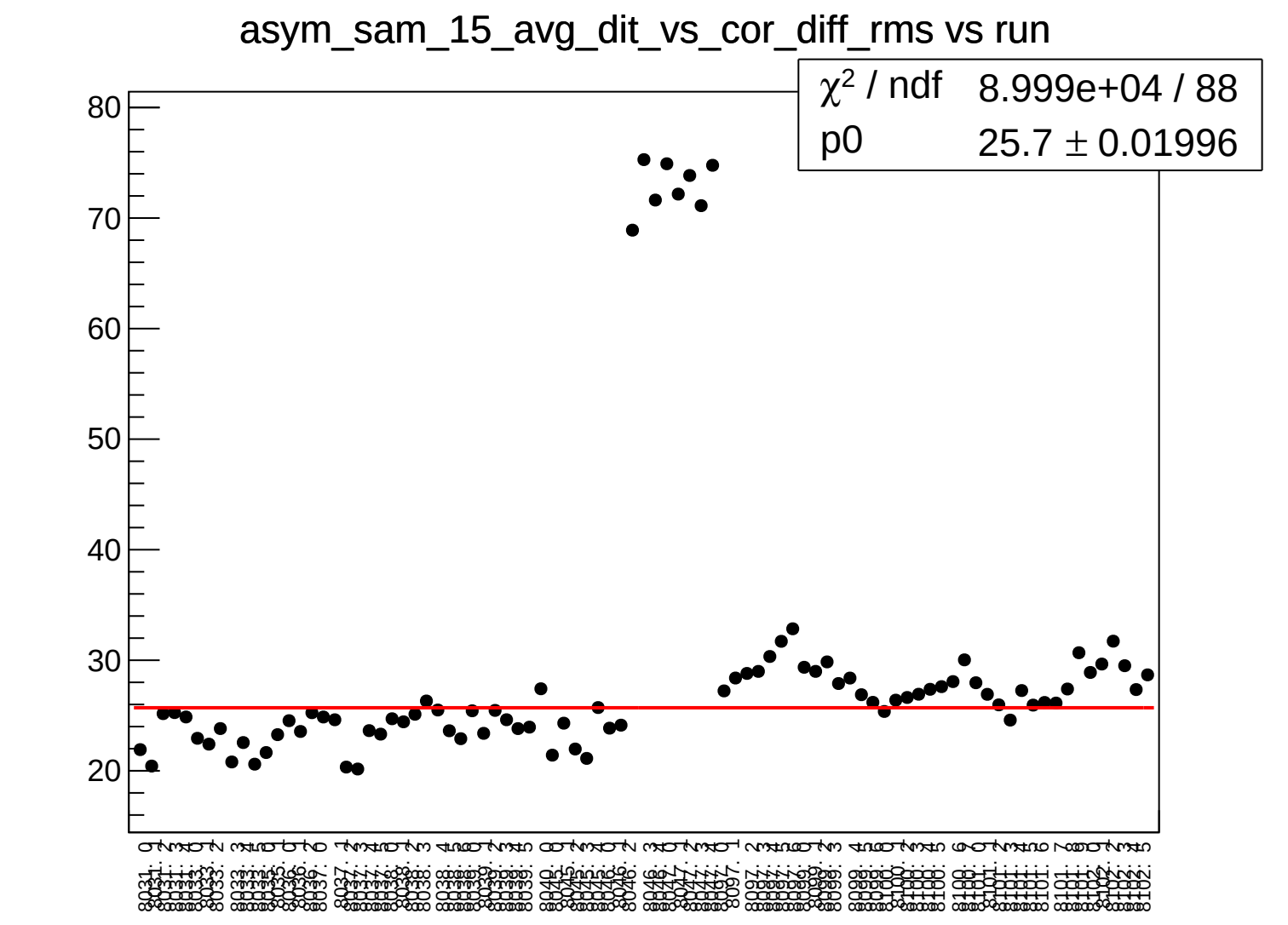
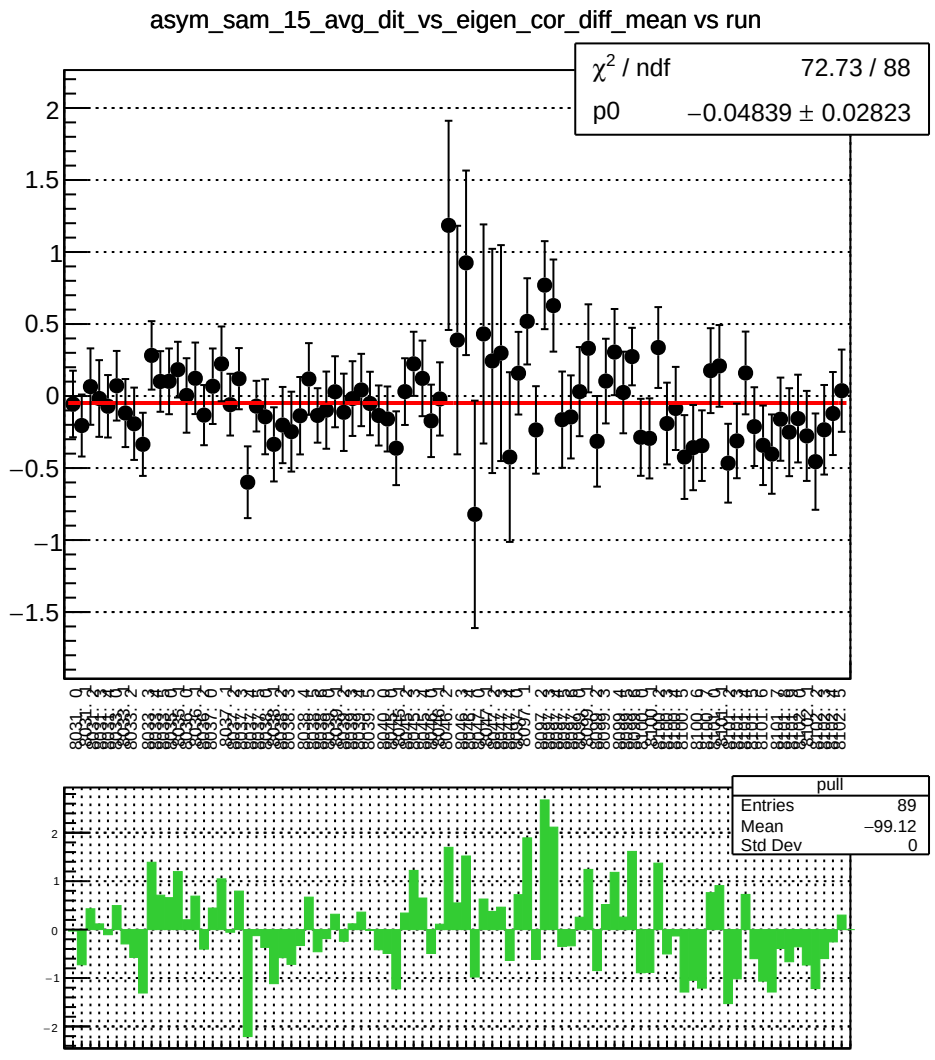
0
2
4
6
8

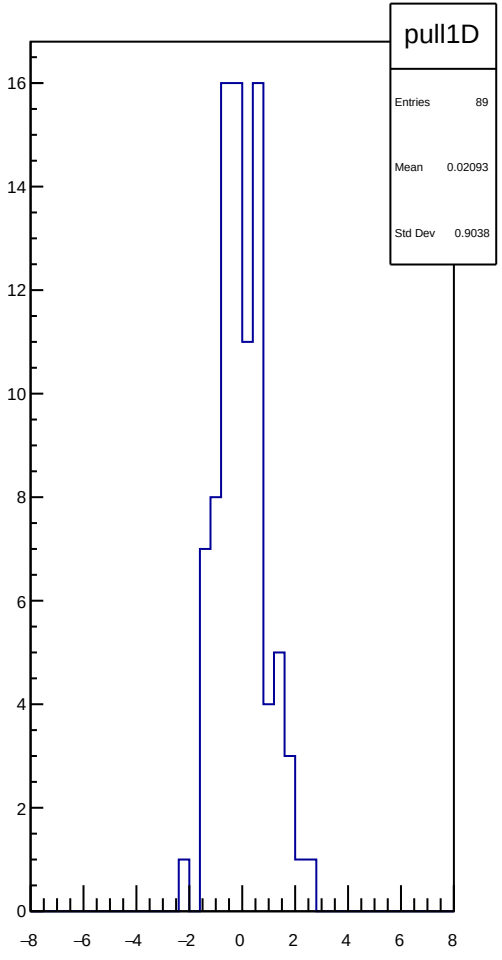

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.025e+06 / 88
p0 1.319e−11 ± 1.552e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

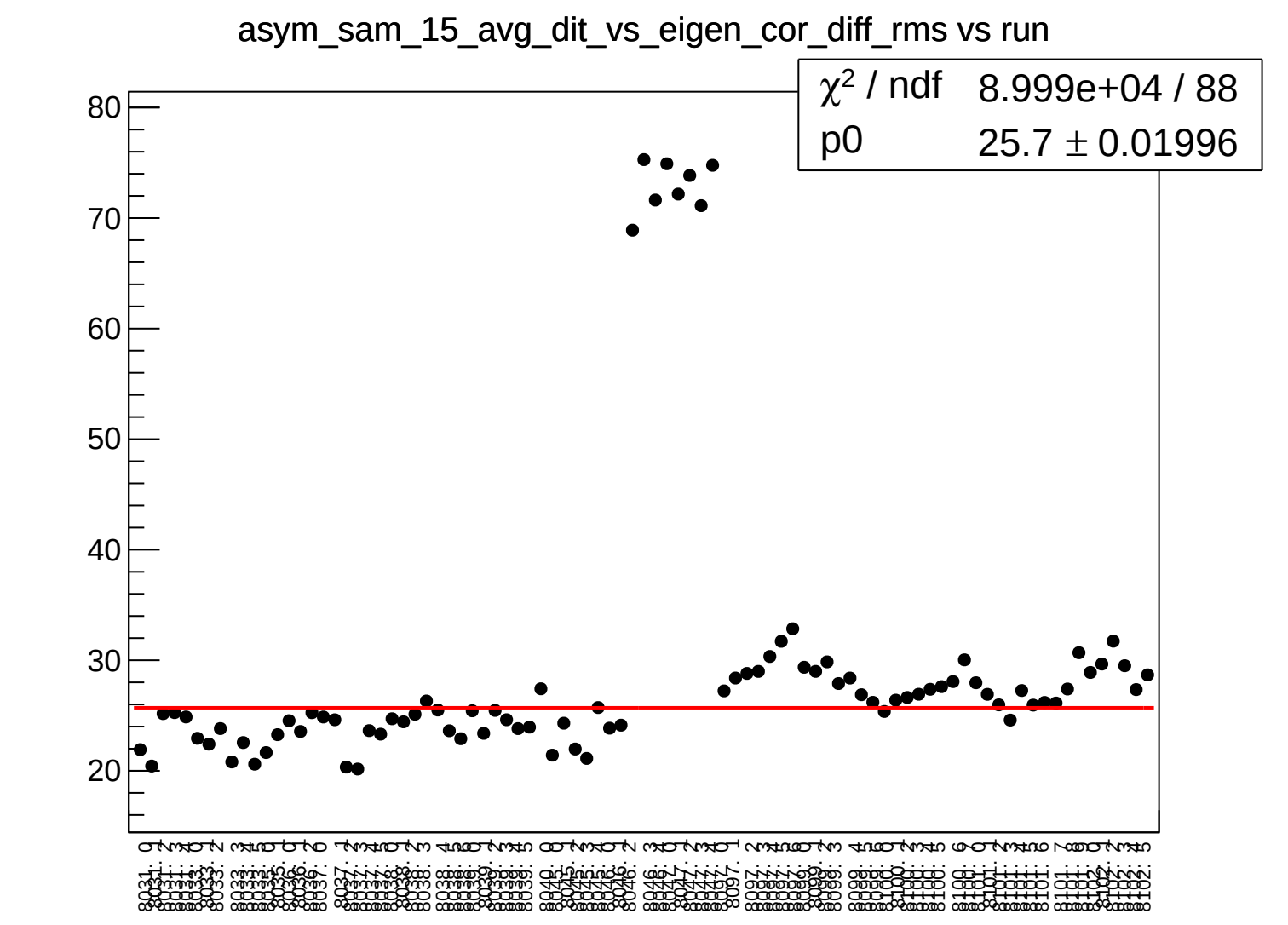

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 72.73 / 88
p0 −0.04839 ± 0.02823
pull
Entries 89
Mean −99.12
Std Dev 0

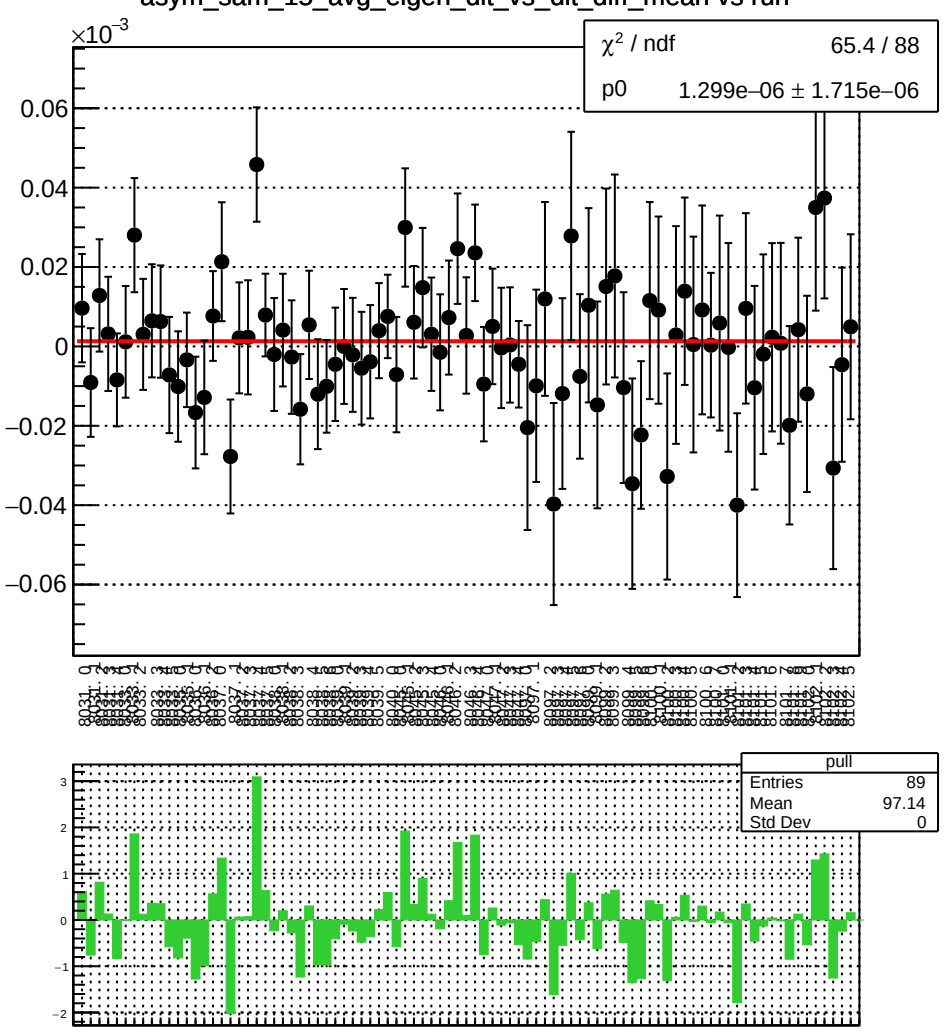

pull1D
Entries 89
Mean 0.02093
Std Dev 0.9038

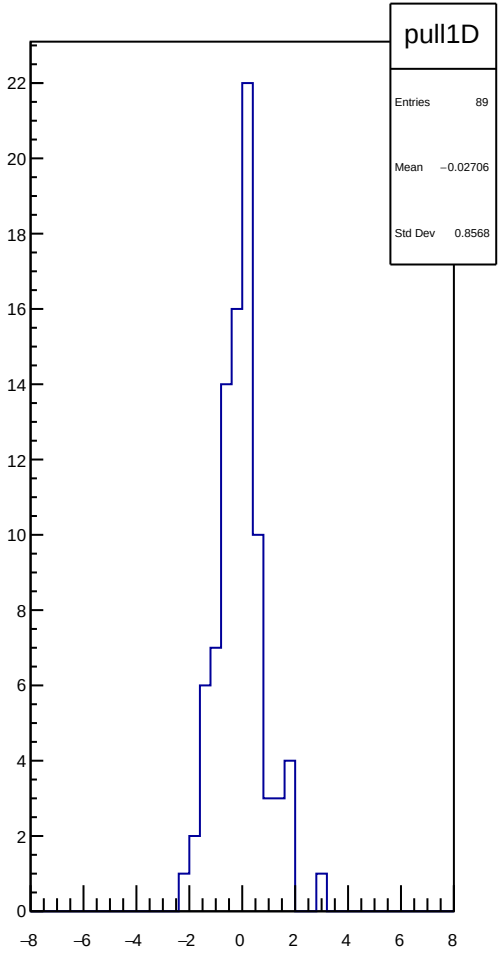

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.999e+04 / 88
p0 25.7 ± 0.01996
80
70
60
50
40
30
20

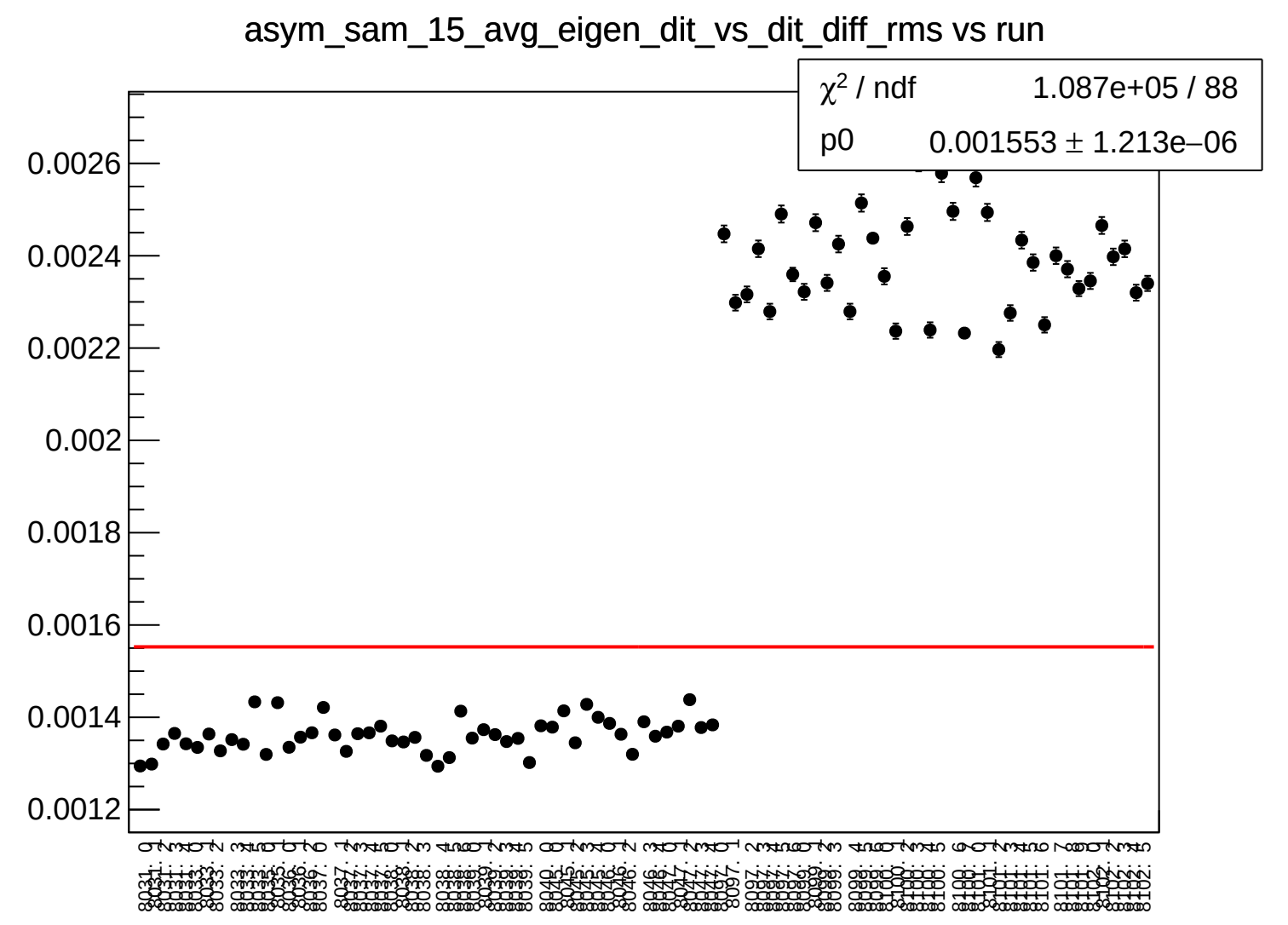

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.73 / 88
p0 −0.04839 ± 0.02823
pull
Entries 89
Mean −99.12
Std Dev 0

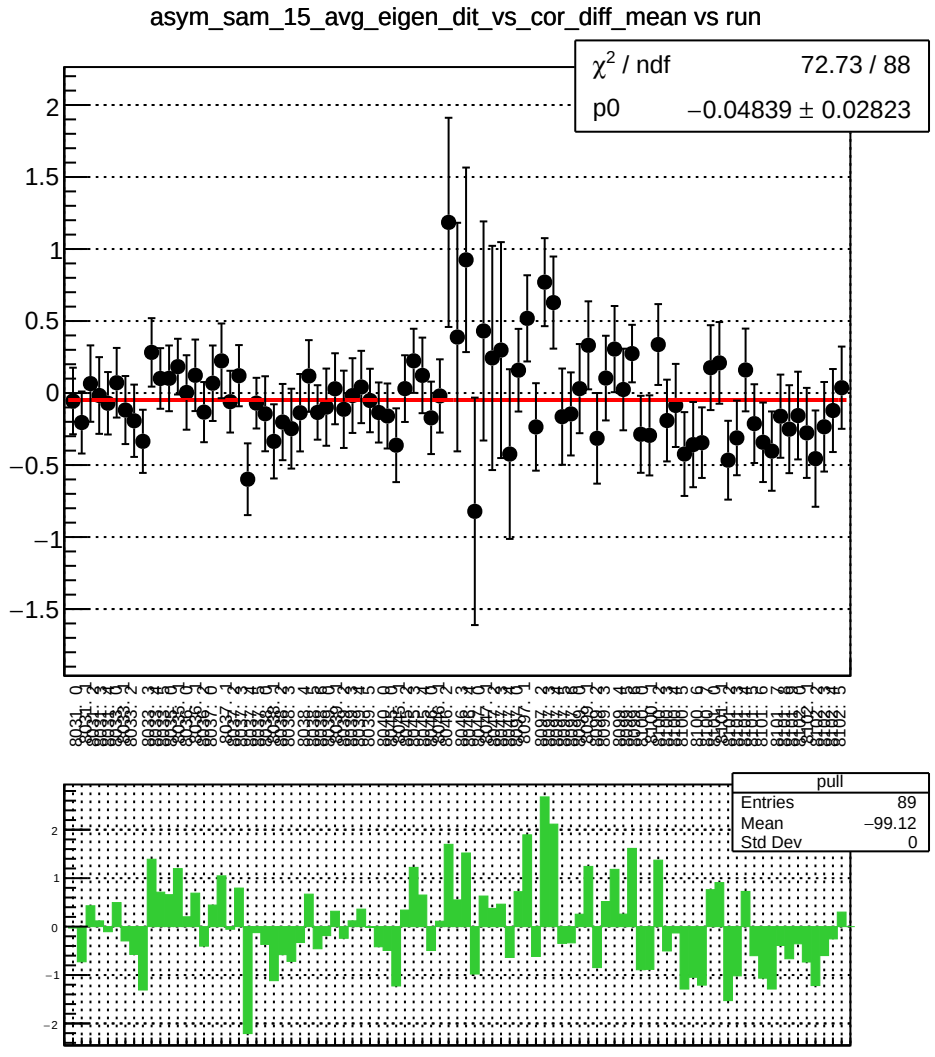

pull1D
Entries 89
Mean 0.02093
Std Dev 0.9038

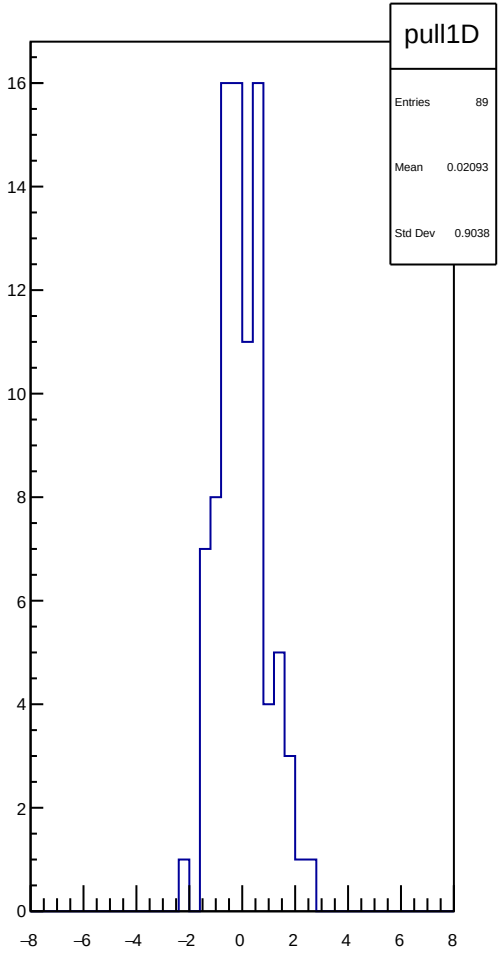

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.999e+04 / 88
p0 25.7 ± 0.01996
80
70
60
50
40
30
20

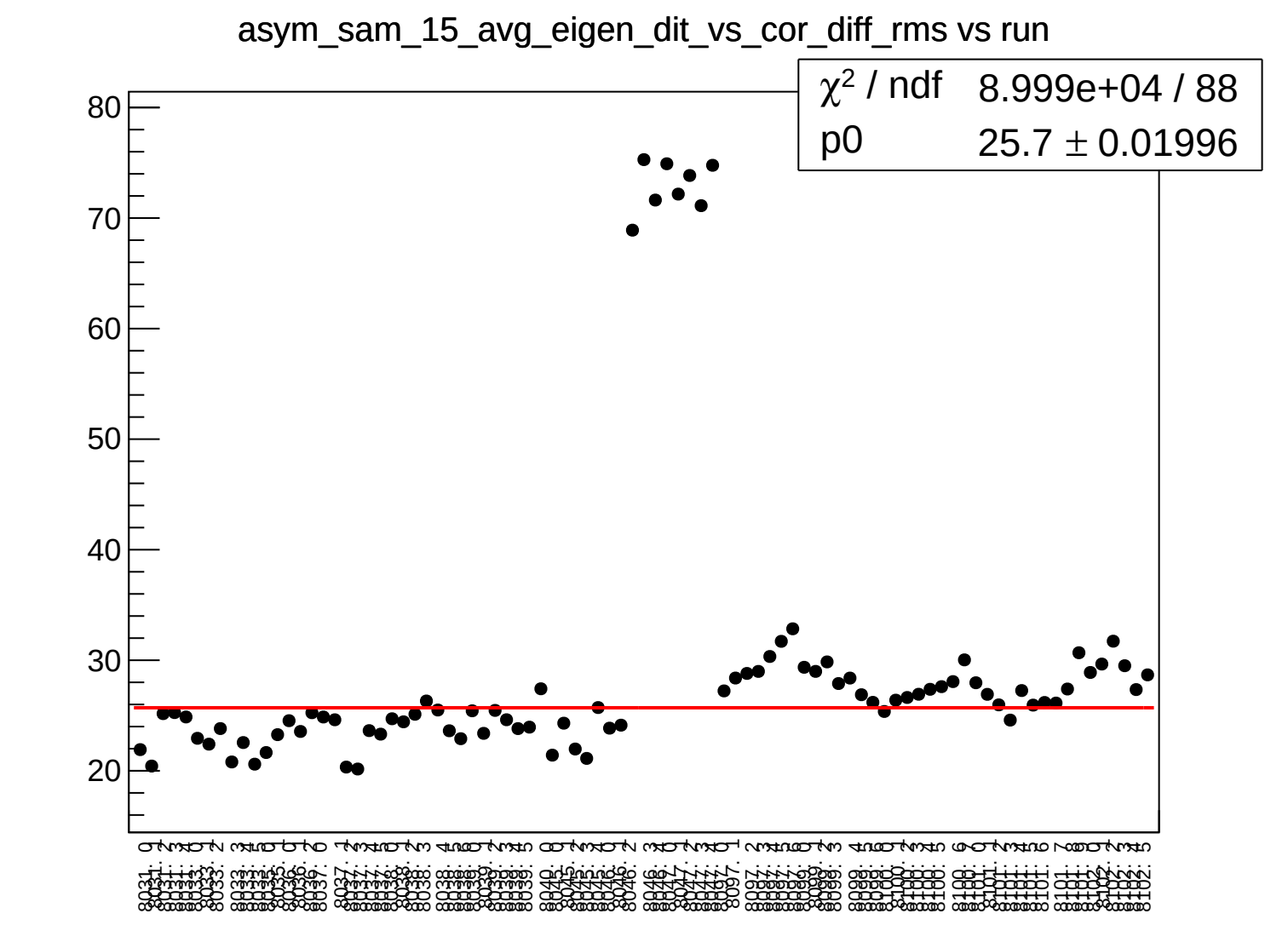

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 65.4 / 88
p0 1.299e−06 ± 1.715e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 89
Mean 97.14
Std Dev 0
3
2
1
0
−1
−2

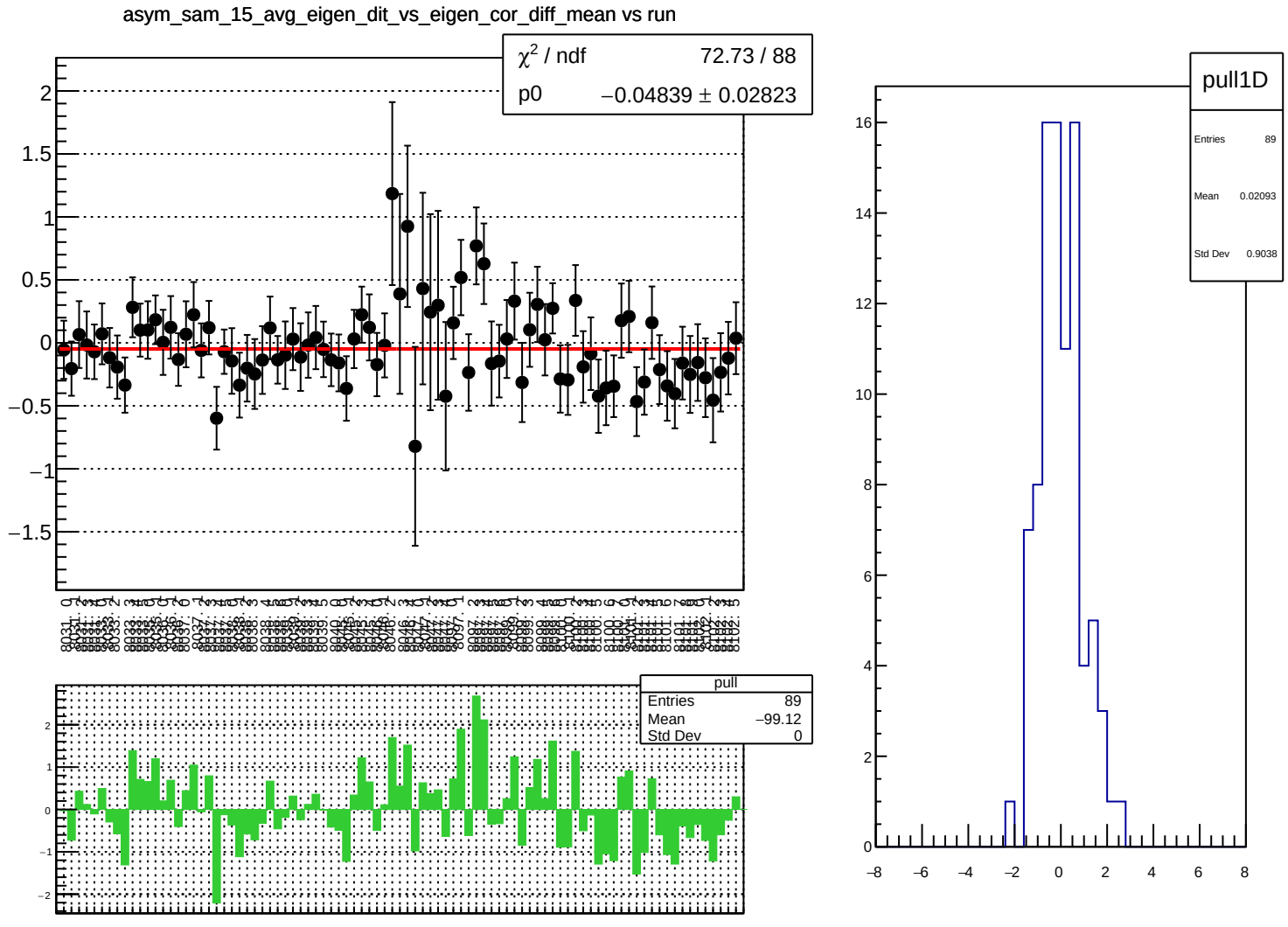

pull1D
Entries 89
Mean −0.02706
Std Dev 0.8568
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

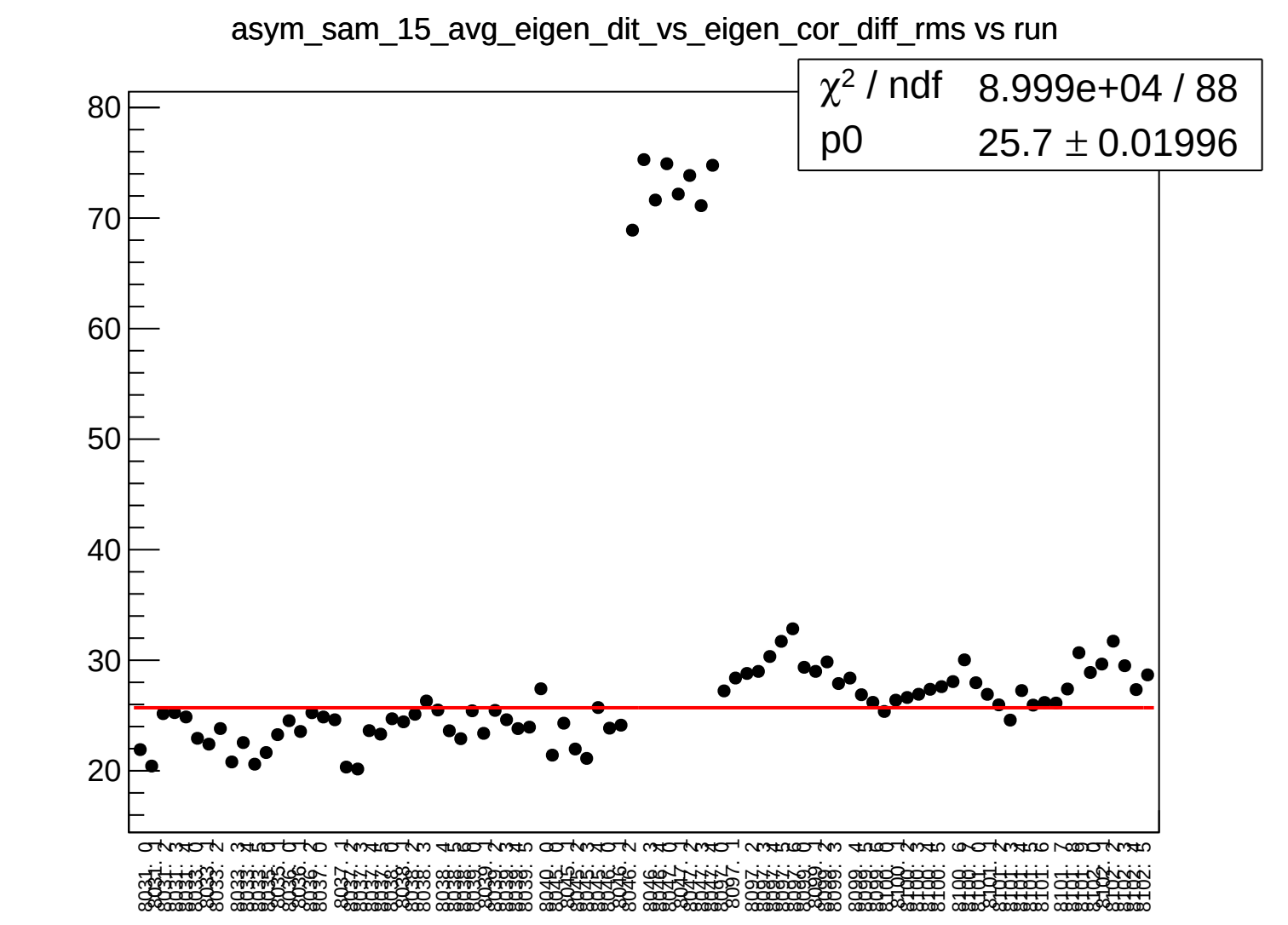

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.087e+05 / 88
p0 0.001553 ± 1.213e−06
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012

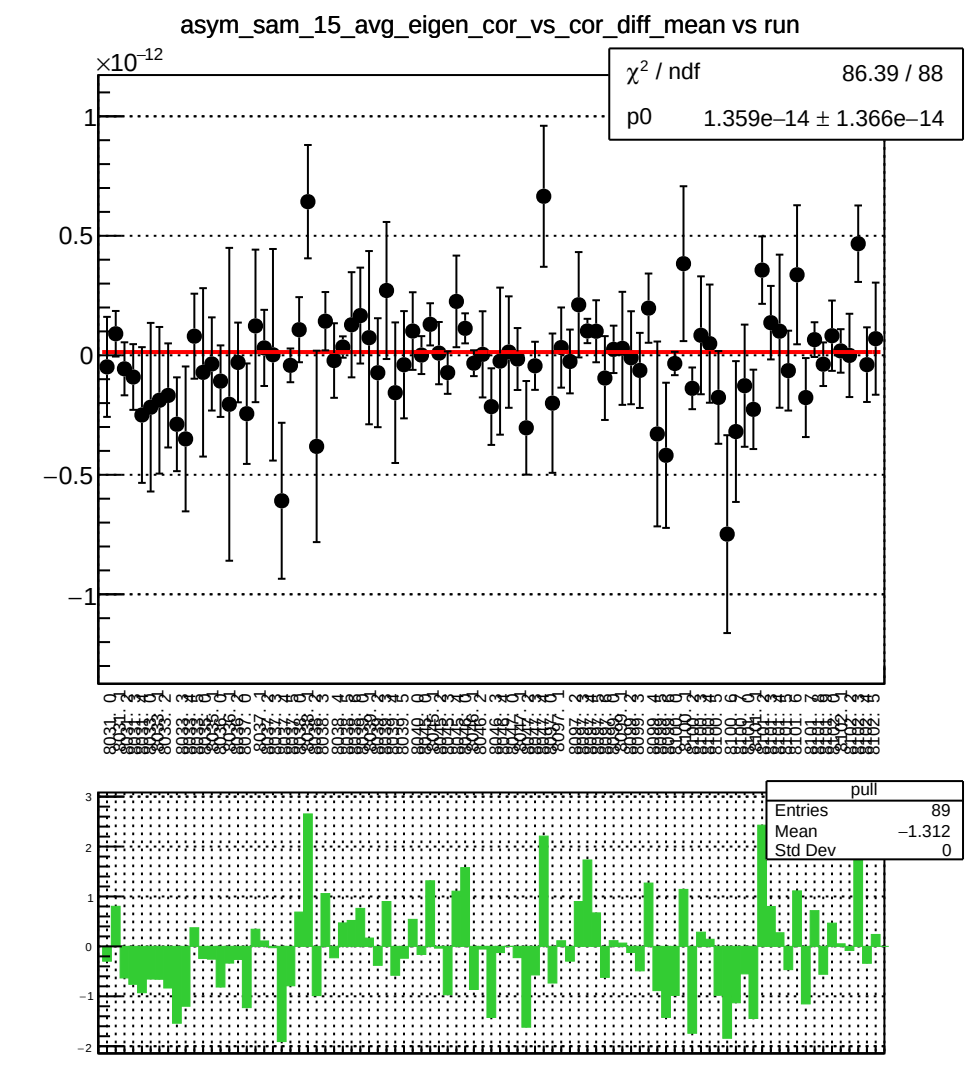

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.73 / 88
p0 −0.04839 ± 0.02823
pull
Entries 89
Mean −99.12
Std Dev 0

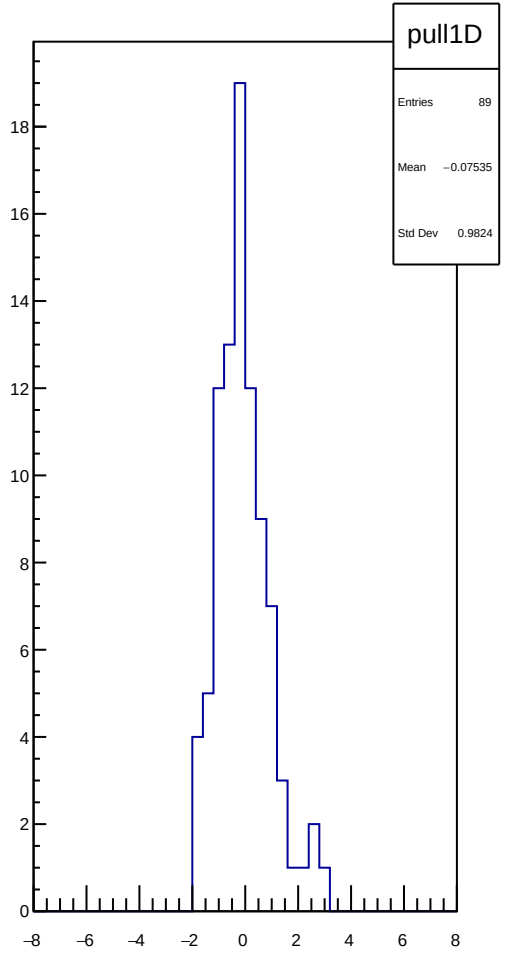

pull1D
Entries 89
Mean 0.02093
Std Dev 0.9038

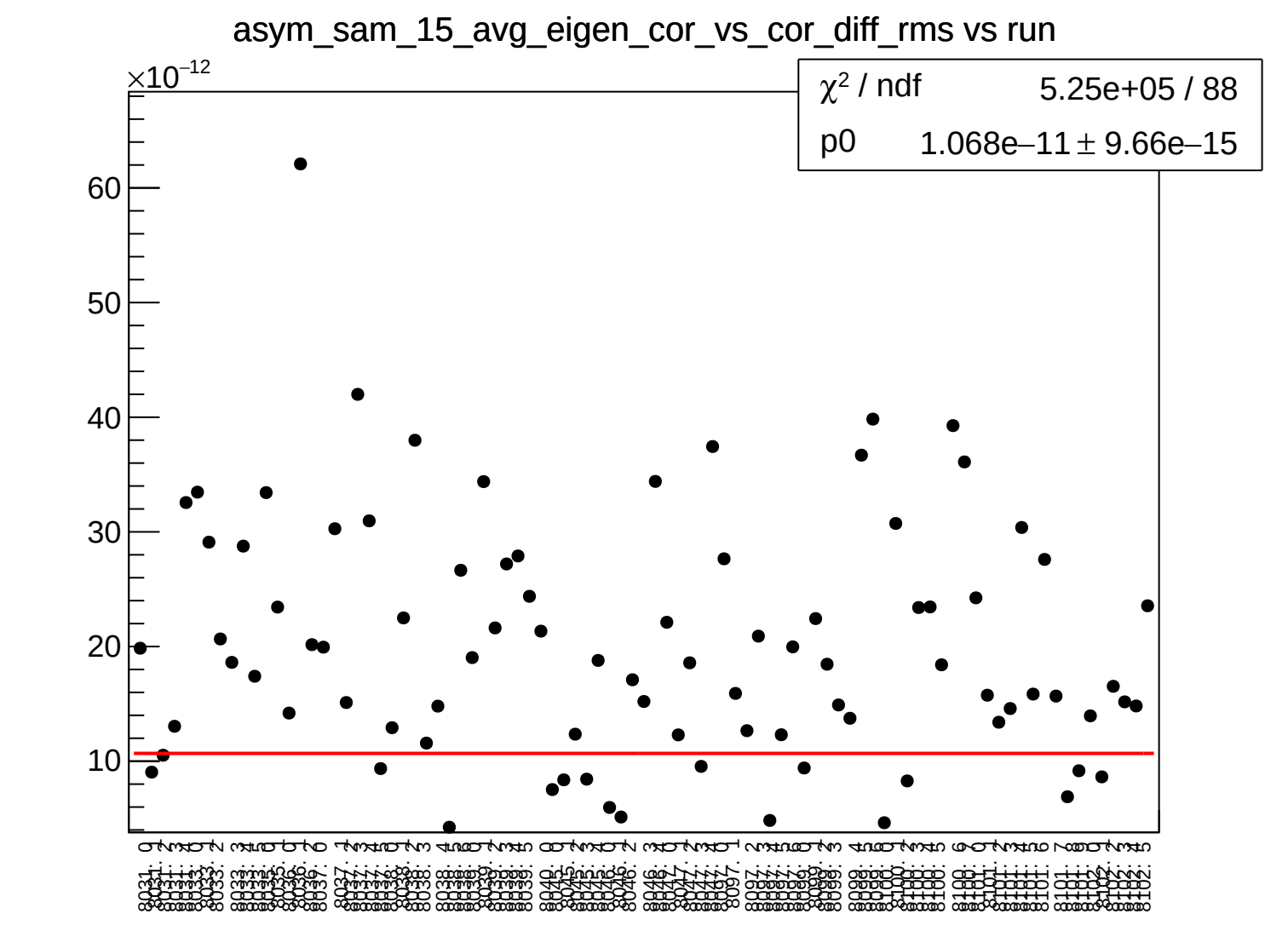

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.999e+04 / 88
p0 25.7 ± 0.01996
80
70
60
50
40
30
20

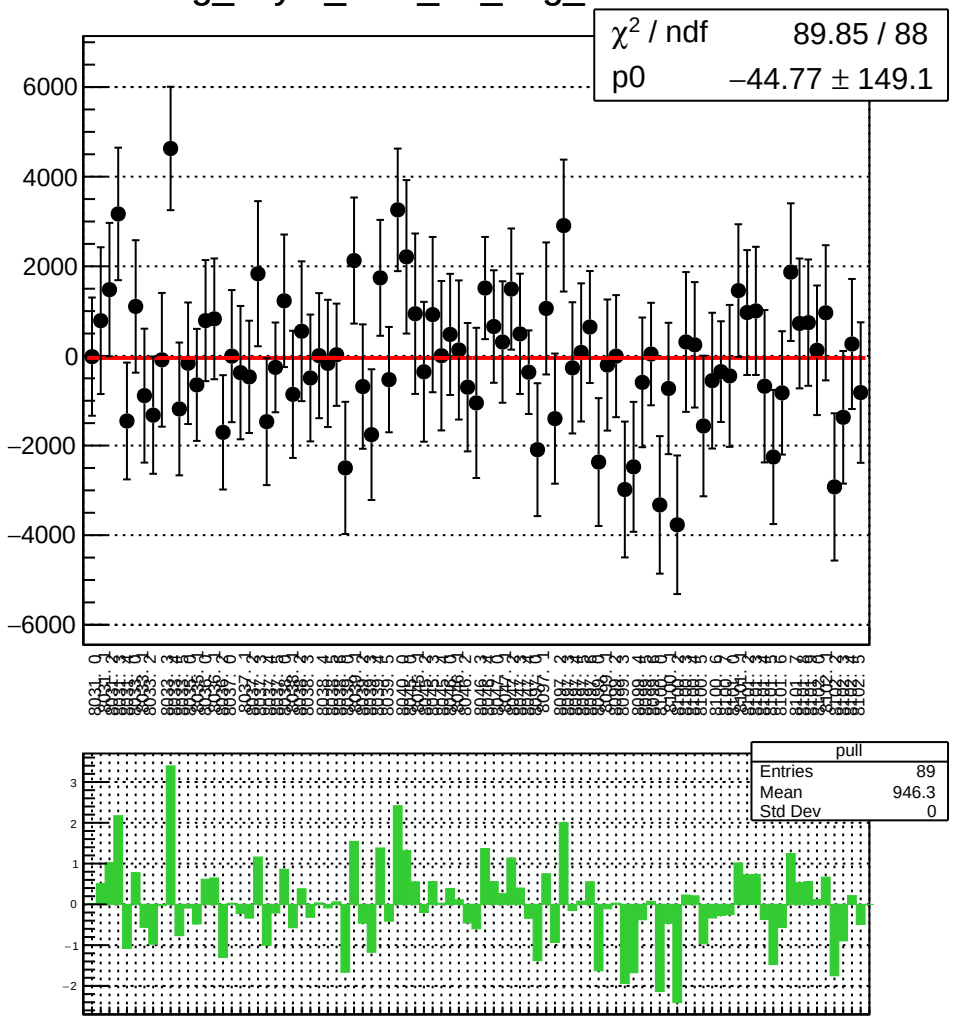

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.73 / 88
p0 −0.04839 ± 0.02823
pull
Entries 89
Mean −99.12
Std Dev 0
pull1D
Entries 89
Mean 0.02093
Std Dev 0.9038

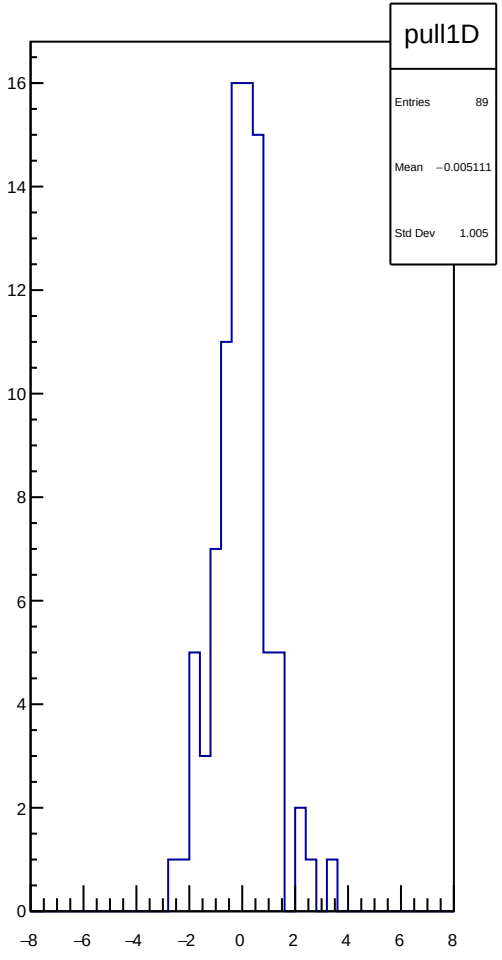

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.999e+04 / 88
p0 25.7 ± 0.01996
80
70
60
50
40
30
20

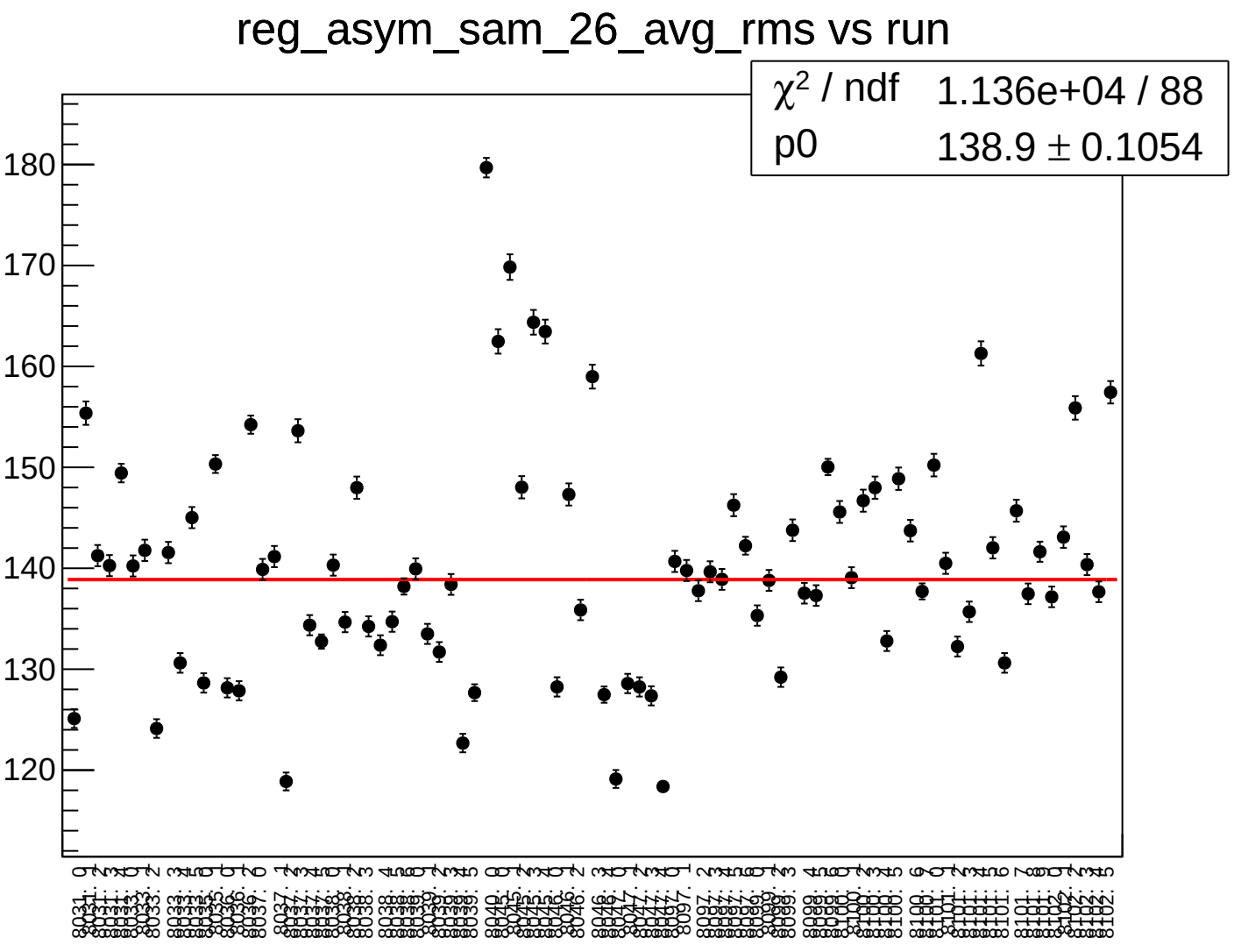

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.39 / 88
p0 1.359e−14 ± 1.366e−14
pull
Entries 89
Mean −1.312
Std Dev 0

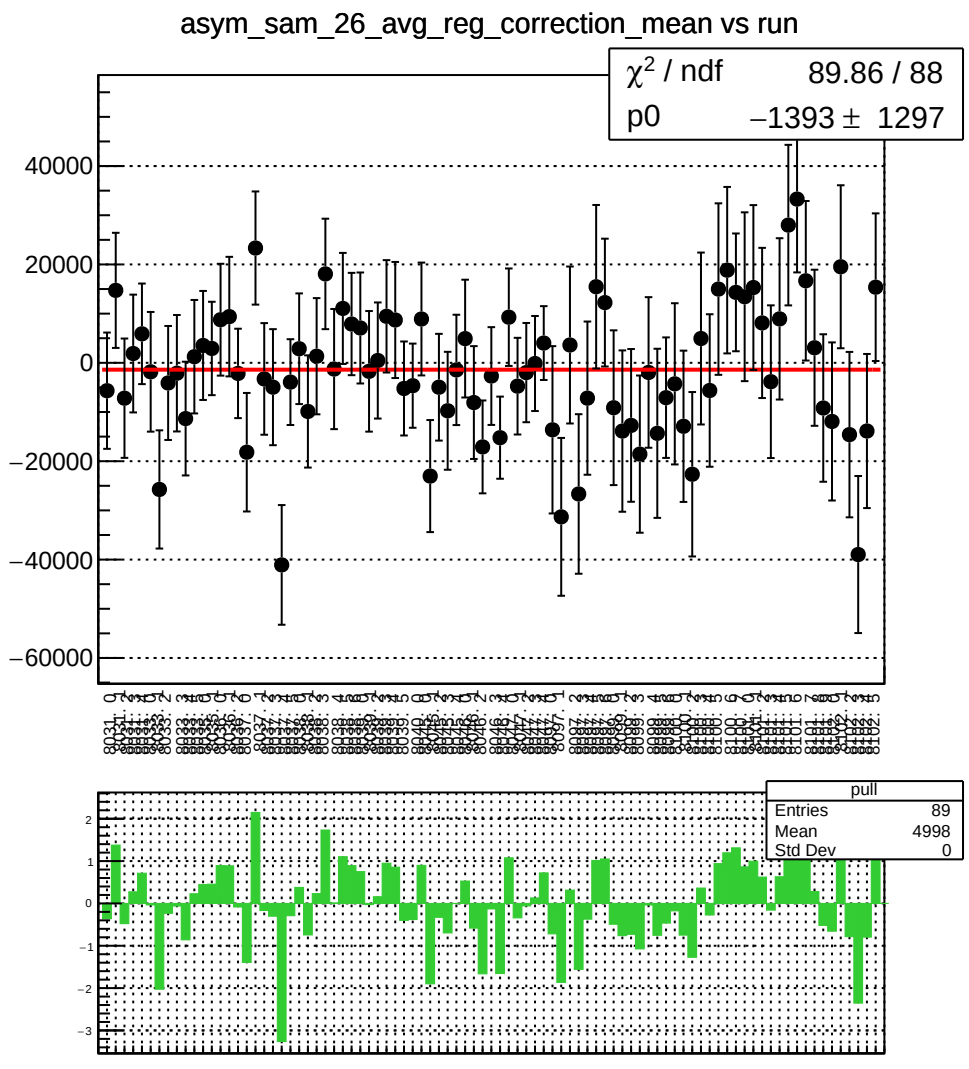

pull1D
Entries 89
Mean −0.07535
Std Dev 0.9824

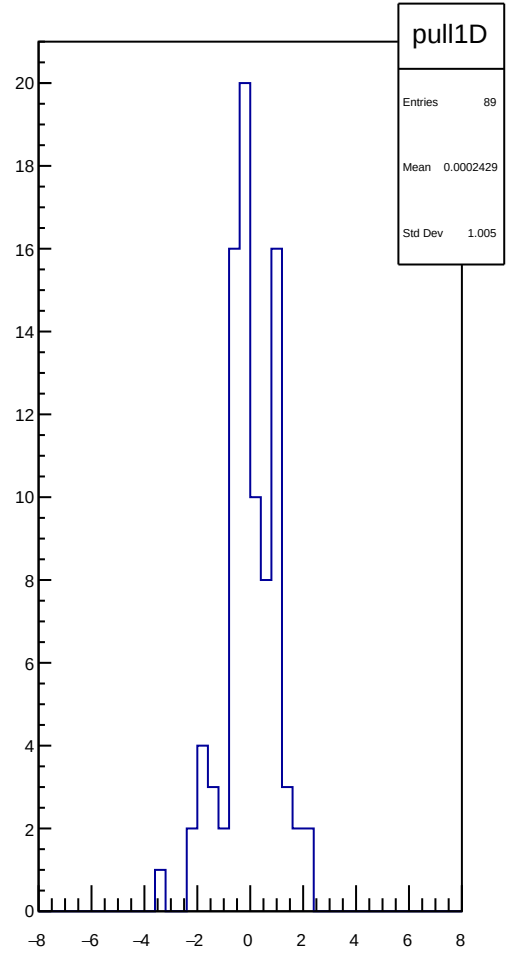

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.25e+05 / 88
p0 1.068e−11 ± 9.66e−15
60
50
40
30
20
10

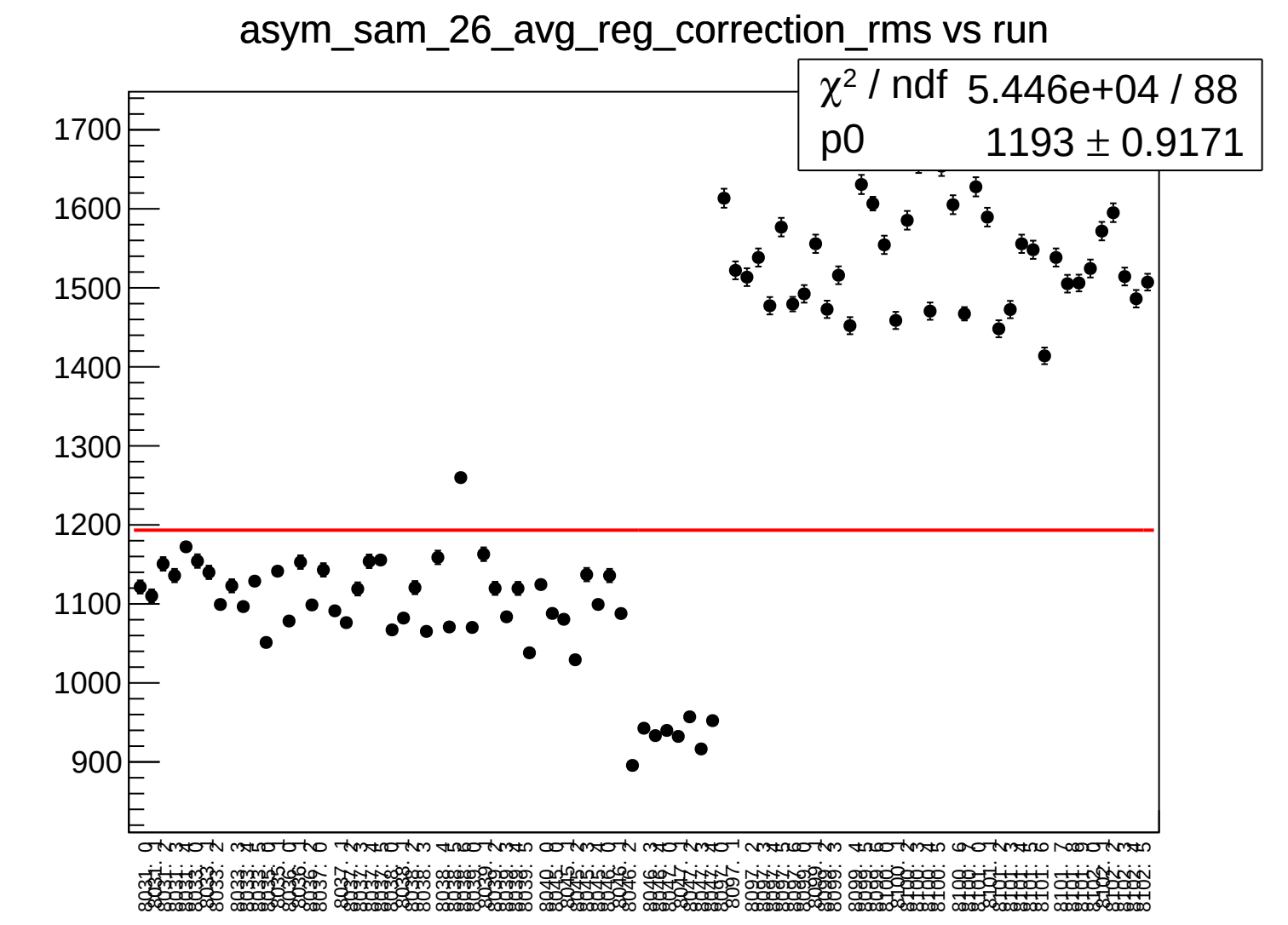

reg_asym_sam_26_avg_mean vs run
χ² / ndf 89.85 / 88
p0 −44.77 ± 149.1
pull
Entries 89
Mean 946.3
Std Dev 0

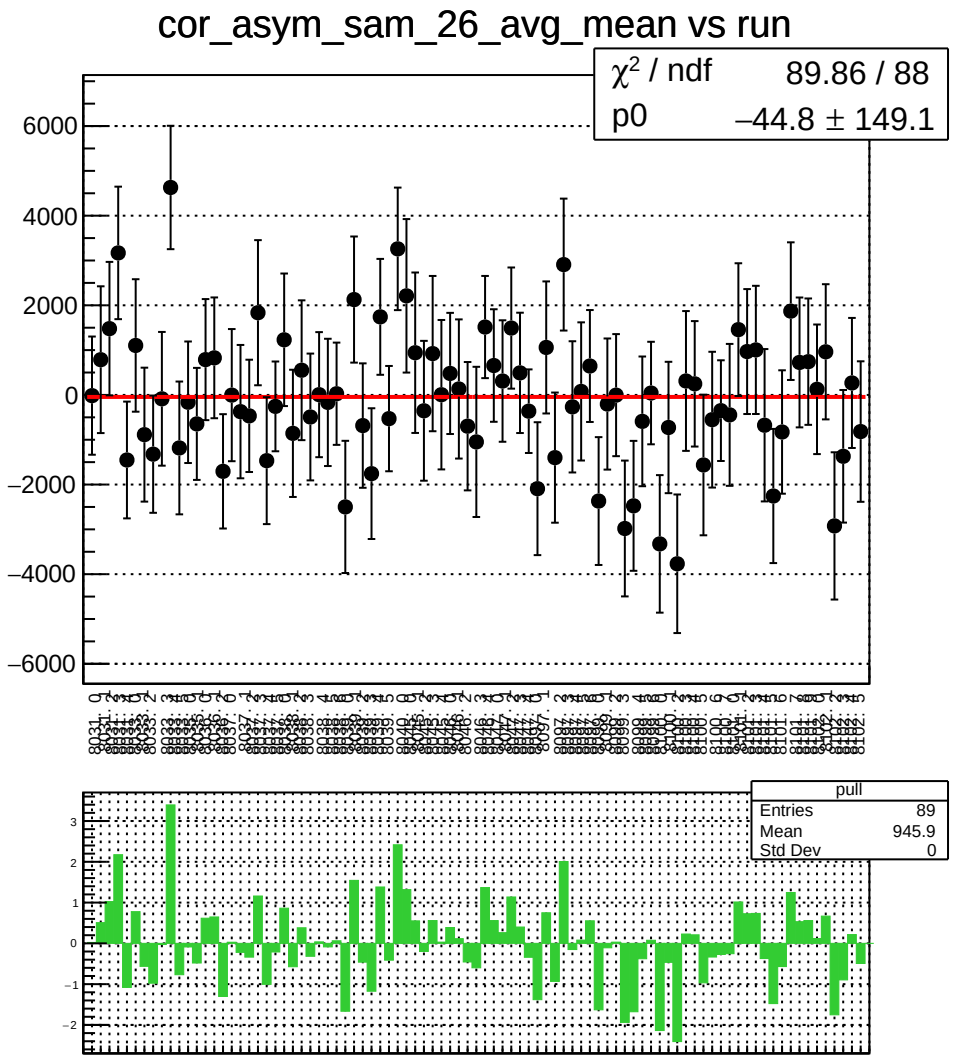

pull1D
Entries 89
Mean −0.005111
Std Dev 1.005

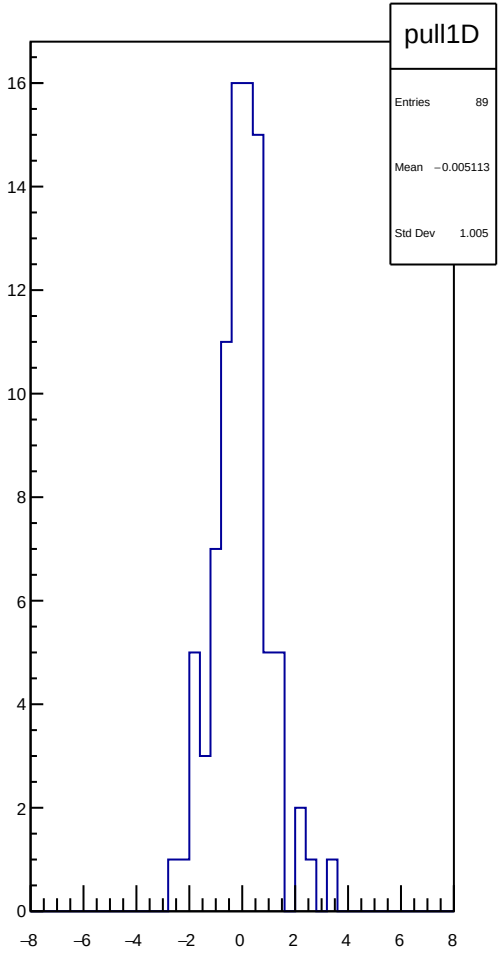

reg_asym_sam_26_avg_rms vs run
χ² / ndf 1.136e+04 / 88
p0 138.9 ± 0.1054
180
170
160
150
140
130
120

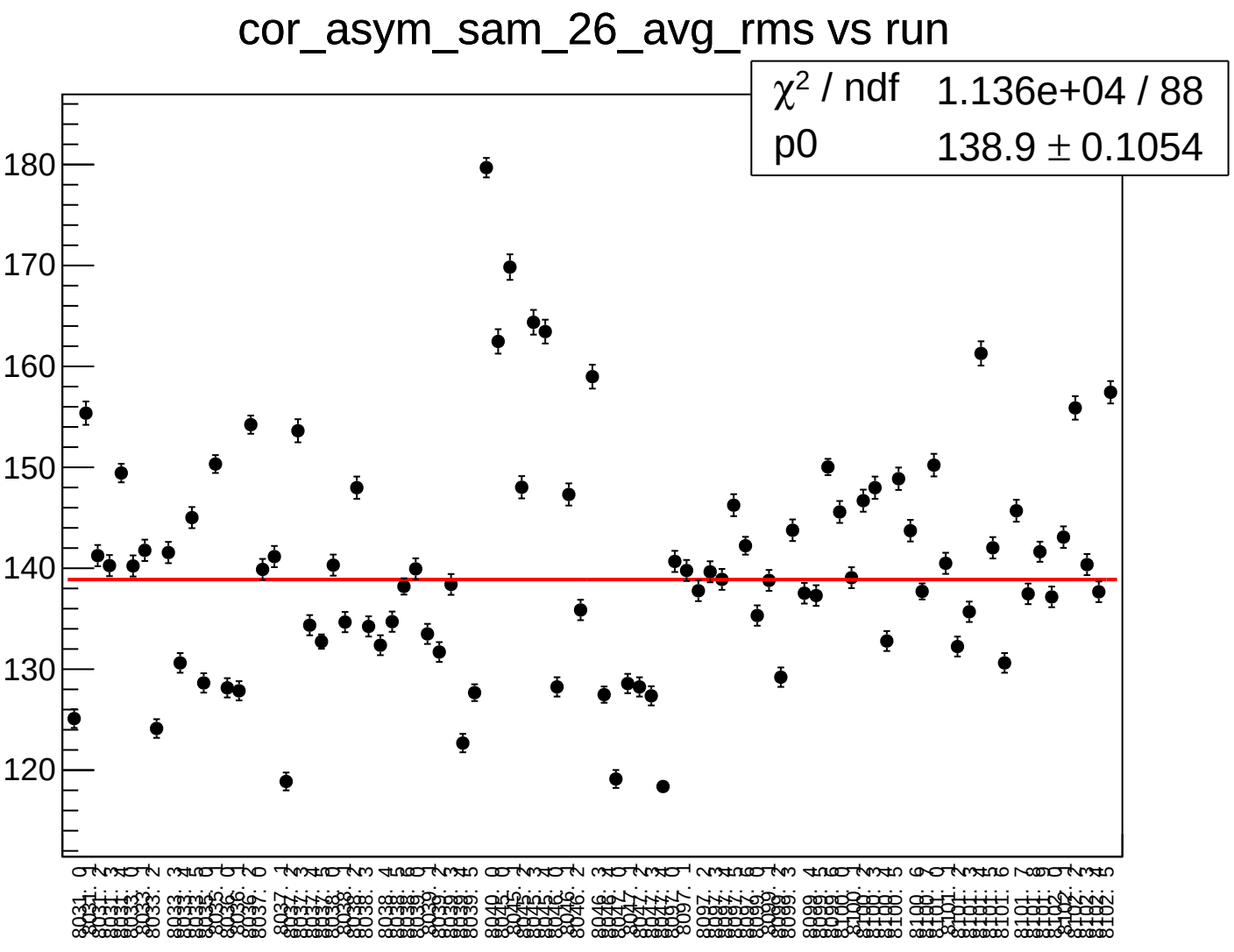

asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 89.86 / 88
p0 −1393 ± 1297
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 4998
Std Dev 0
2
1
0
−1
−2
−3

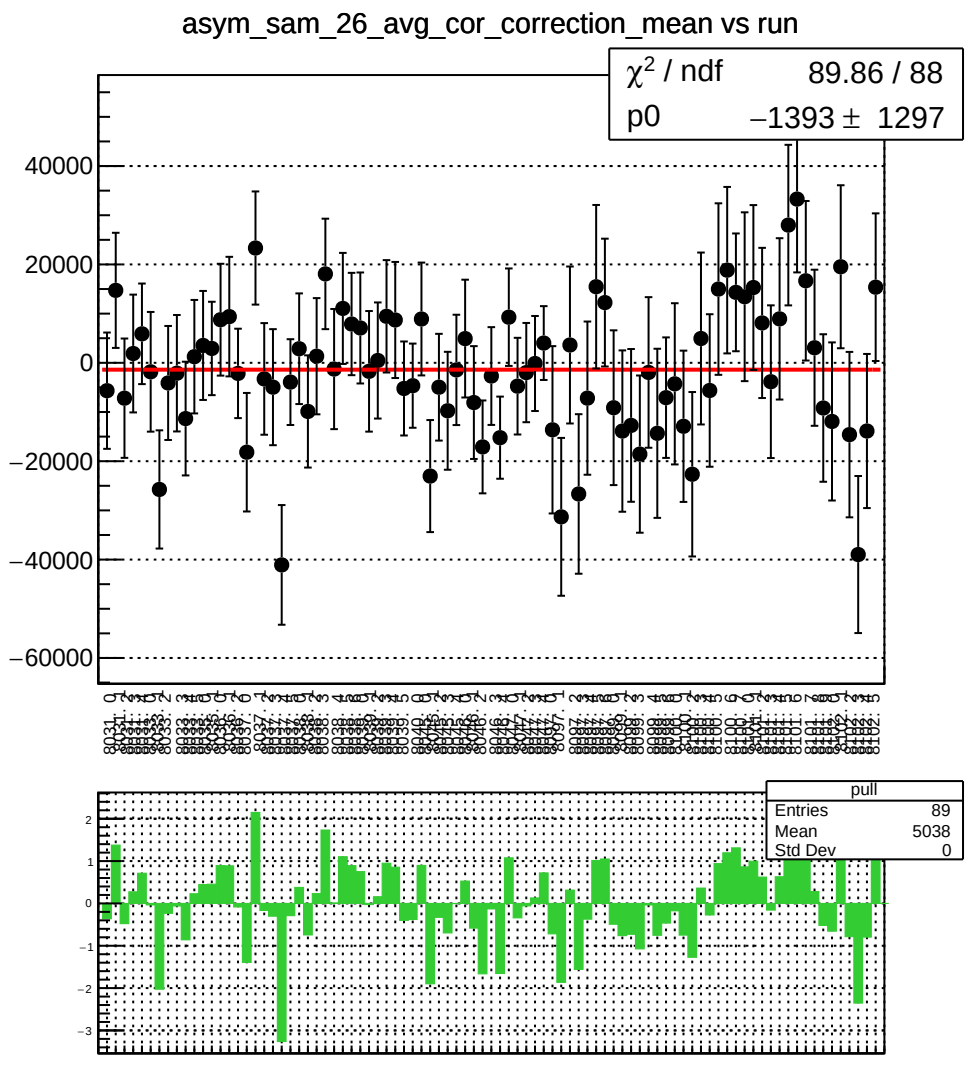

pull1D
Entries 89
Mean 0.0002429
Std Dev 1.005
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

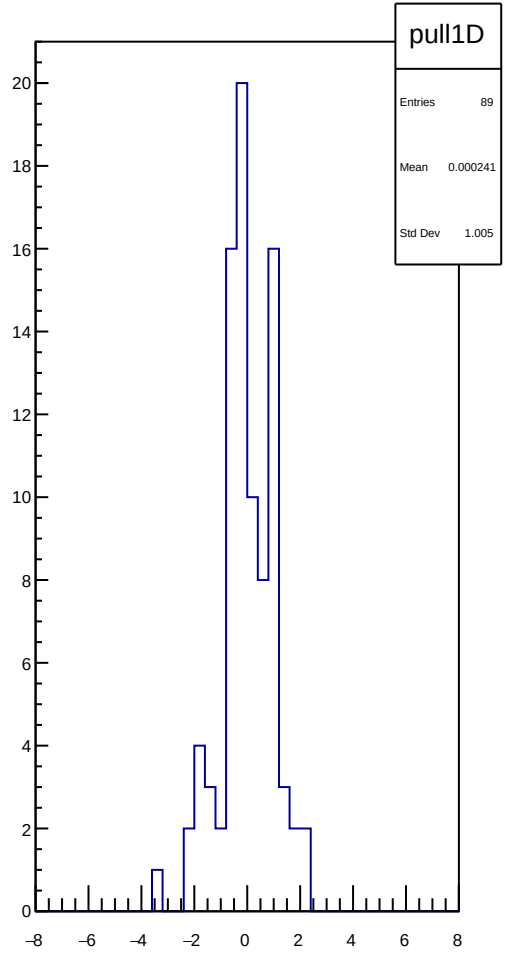

asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 5.446e+04 / 88
p0 1193 ± 0.9171
1700
1600
1500
1400
1300
1200
1100
1000
900

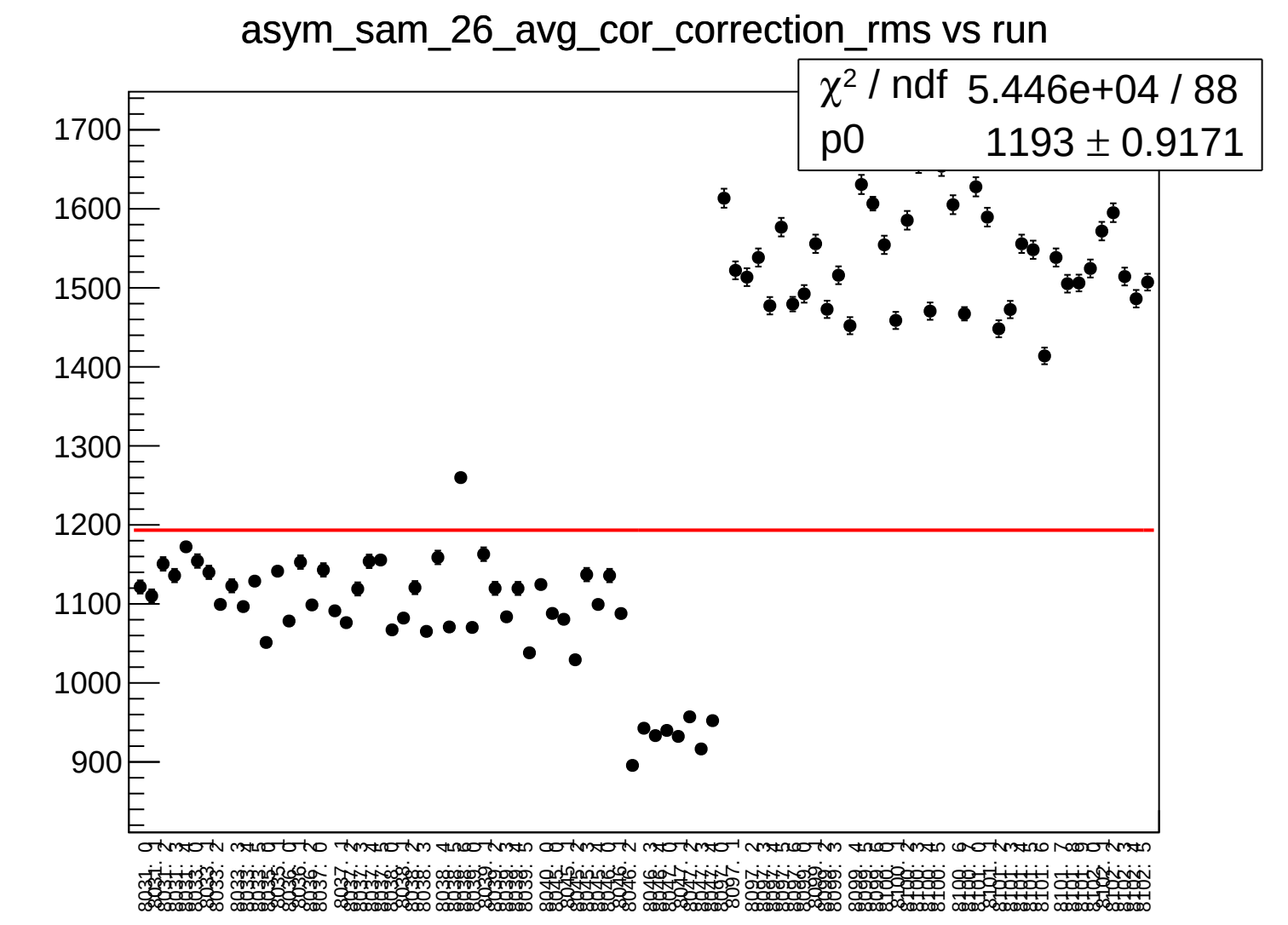

cor_asym_sam_26_avg_mean vs run
χ² / ndf 89.86 / 88
p0 −44.8 ± 149.1
pull
Entries 89
Mean 945.9
Std Dev 0

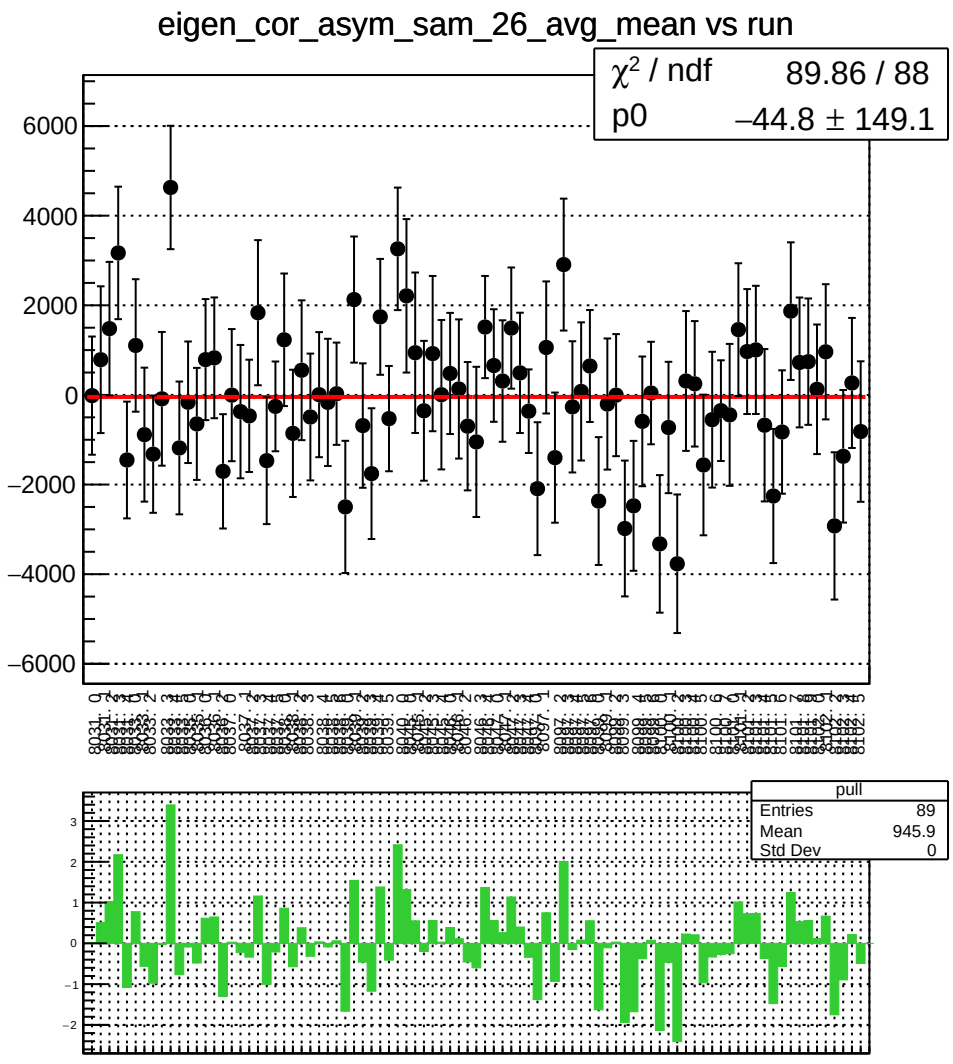

pull1D
Entries 89
Mean −0.005113
Std Dev 1.005

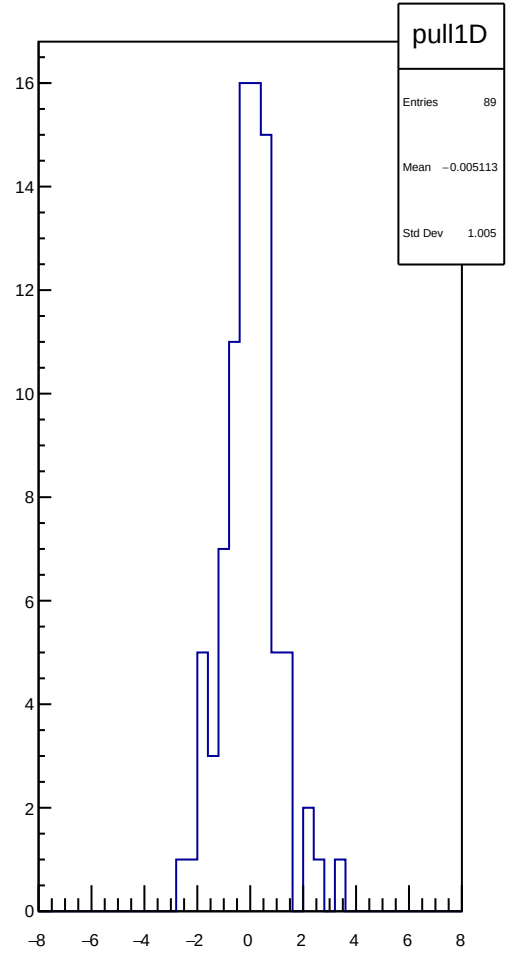

cor_asym_sam_26_avg_rms vs run
χ² / ndf 1.136e+04 / 88
p0 138.9 ± 0.1054
180
170
160
150
140
130
120

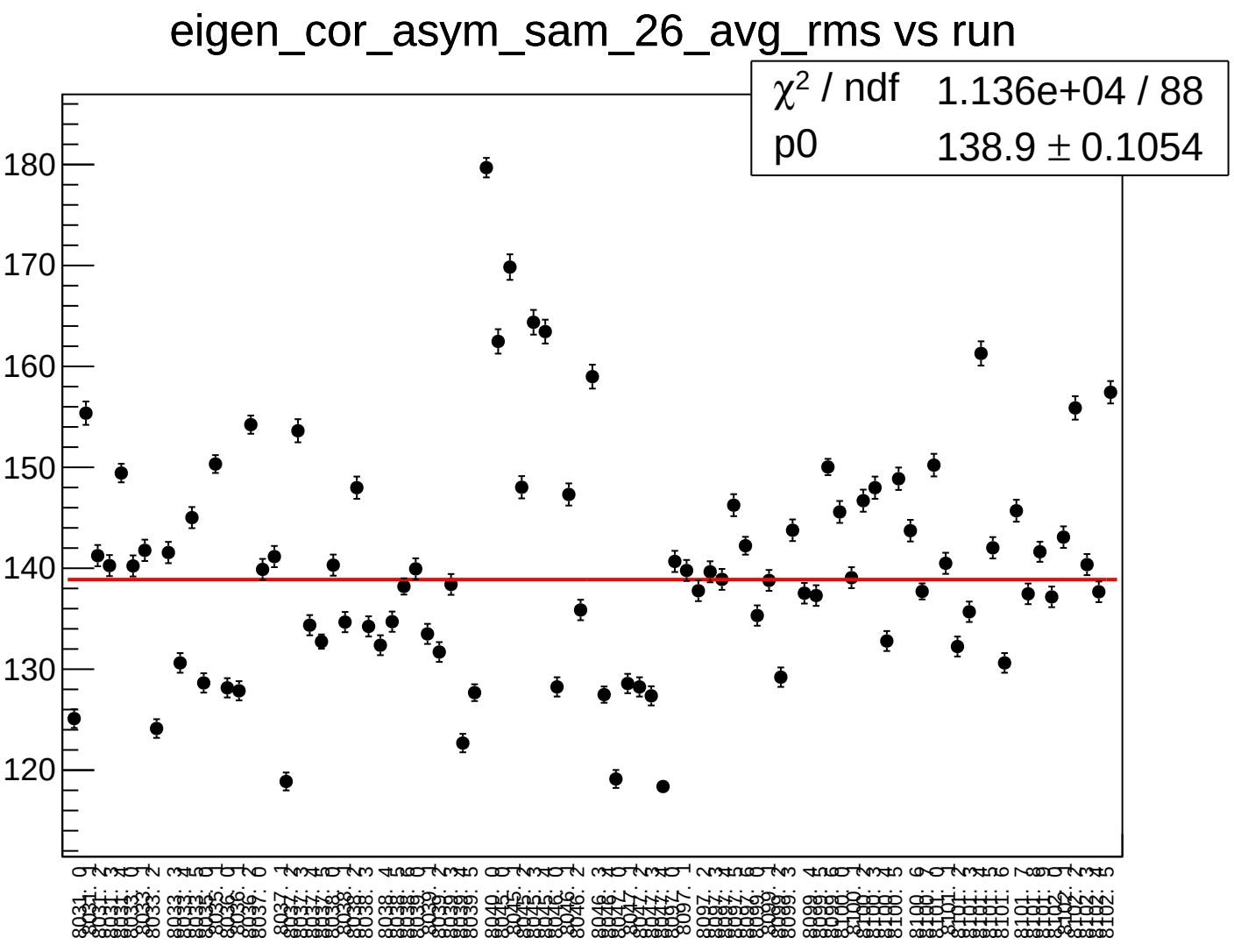

asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 89.86 / 88
p0 −1393 ± 1297
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 5038
Std Dev 0
2
1
0
−1
−2
−3

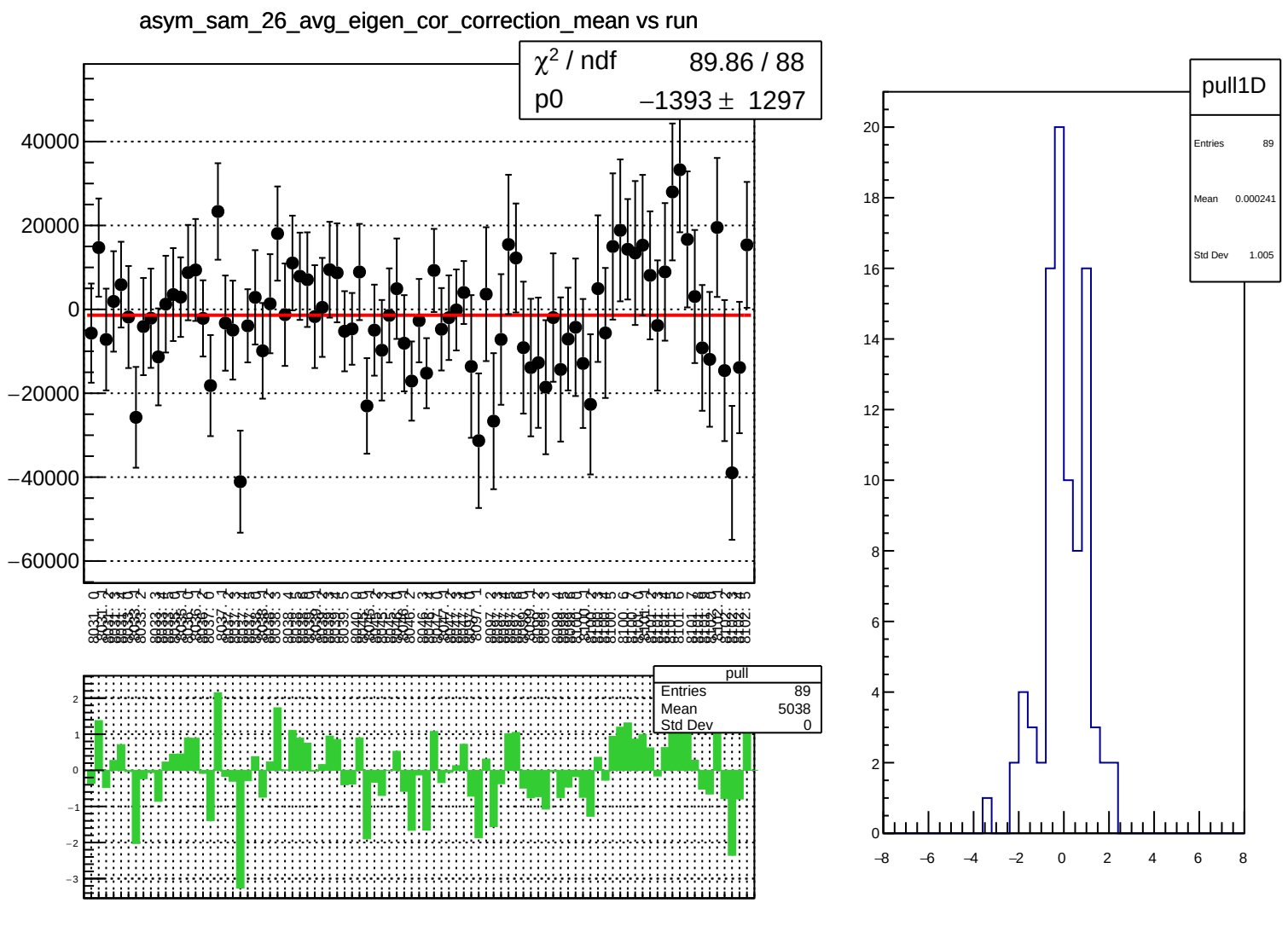

pull1D
Entries 89
Mean 0.000241
Std Dev 1.005
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

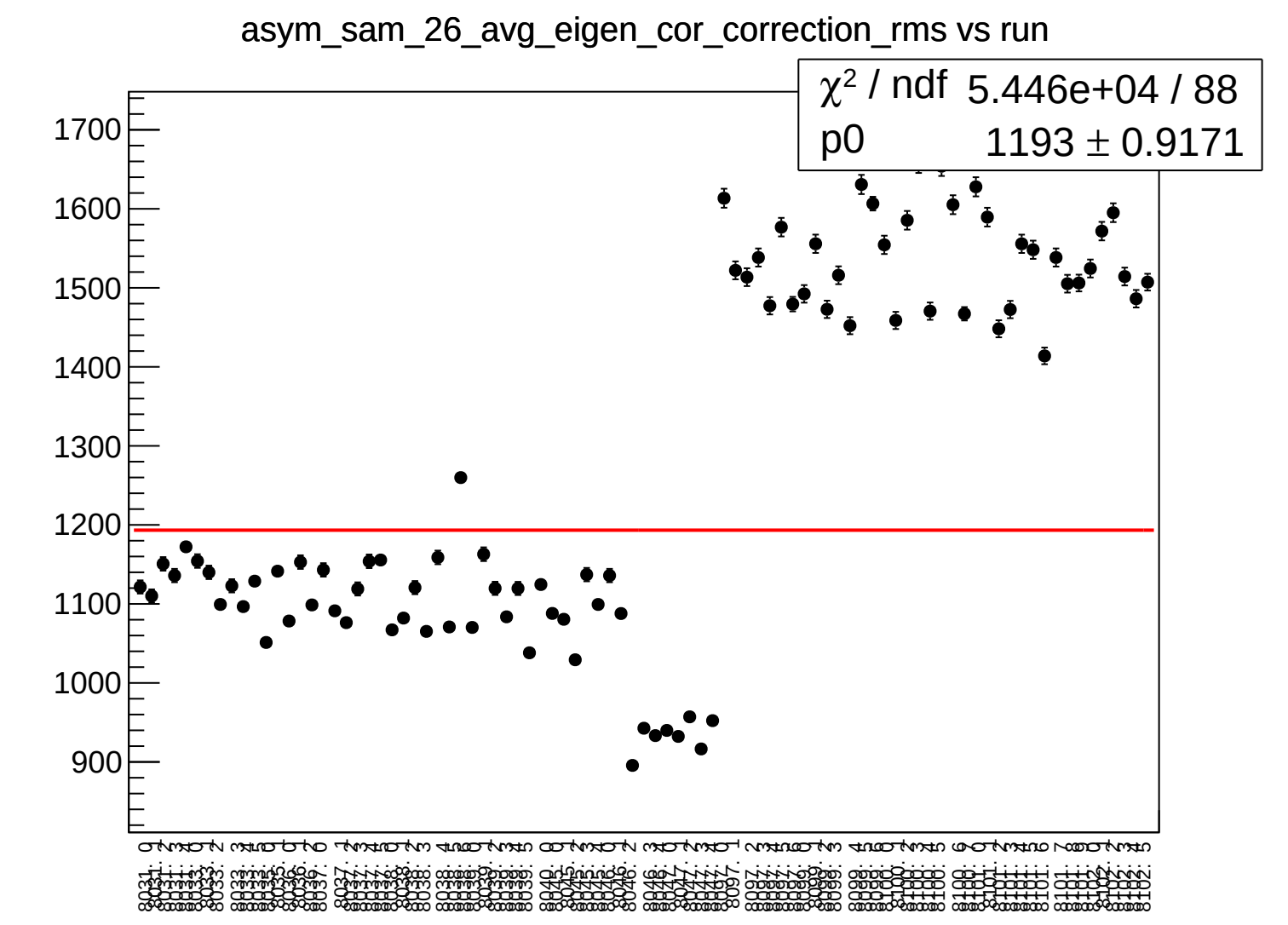

asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 5.446e+04 / 88
p0 1193 ± 0.9171
1700
1600
1500
1400
1300
1200
1100
1000
900

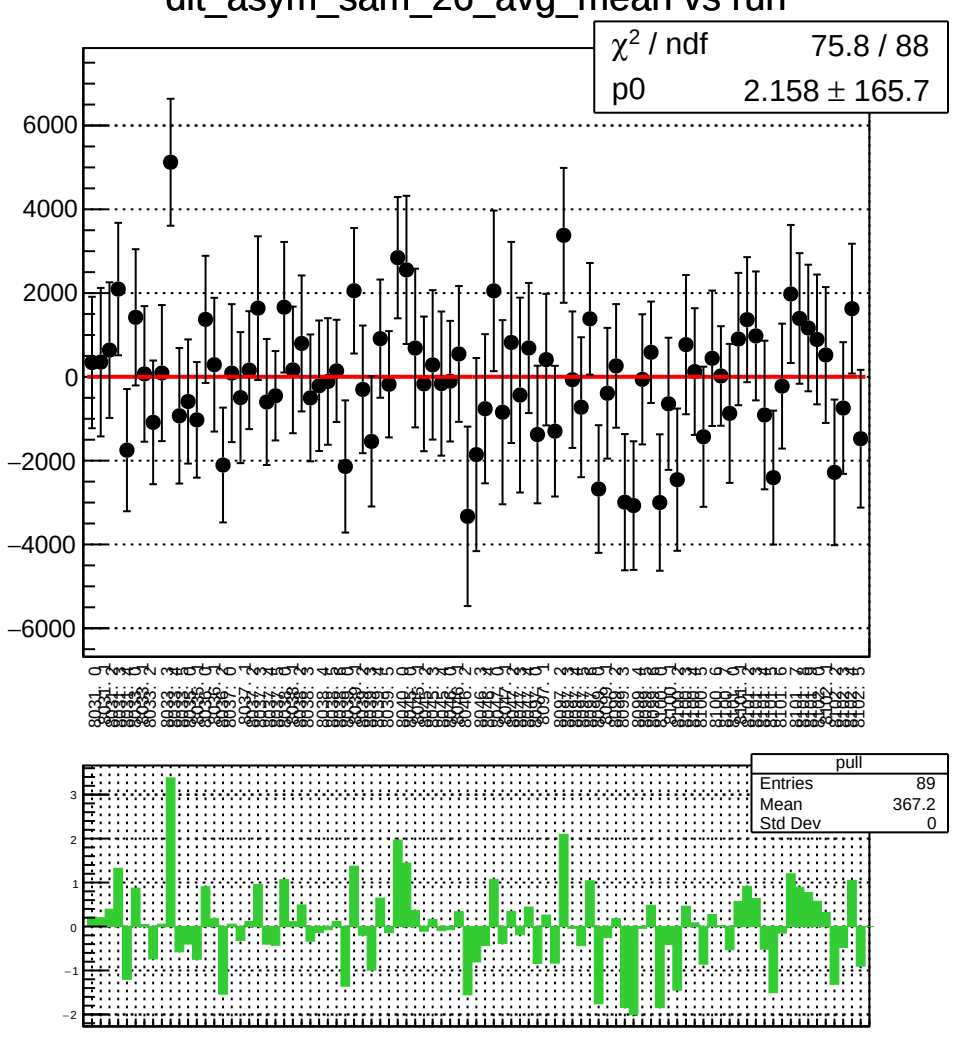

eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 89.86 / 88
p0 −44.8 ± 149.1
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 945.9
Std Dev 0
3
2
1
0
−1
−2

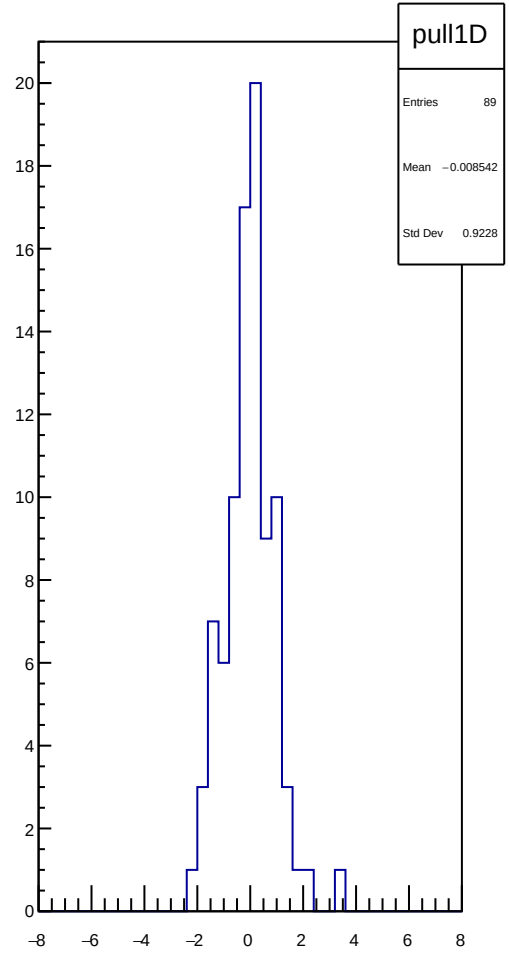

pull1D
Entries 89
Mean −0.005113
Std Dev 1.005
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

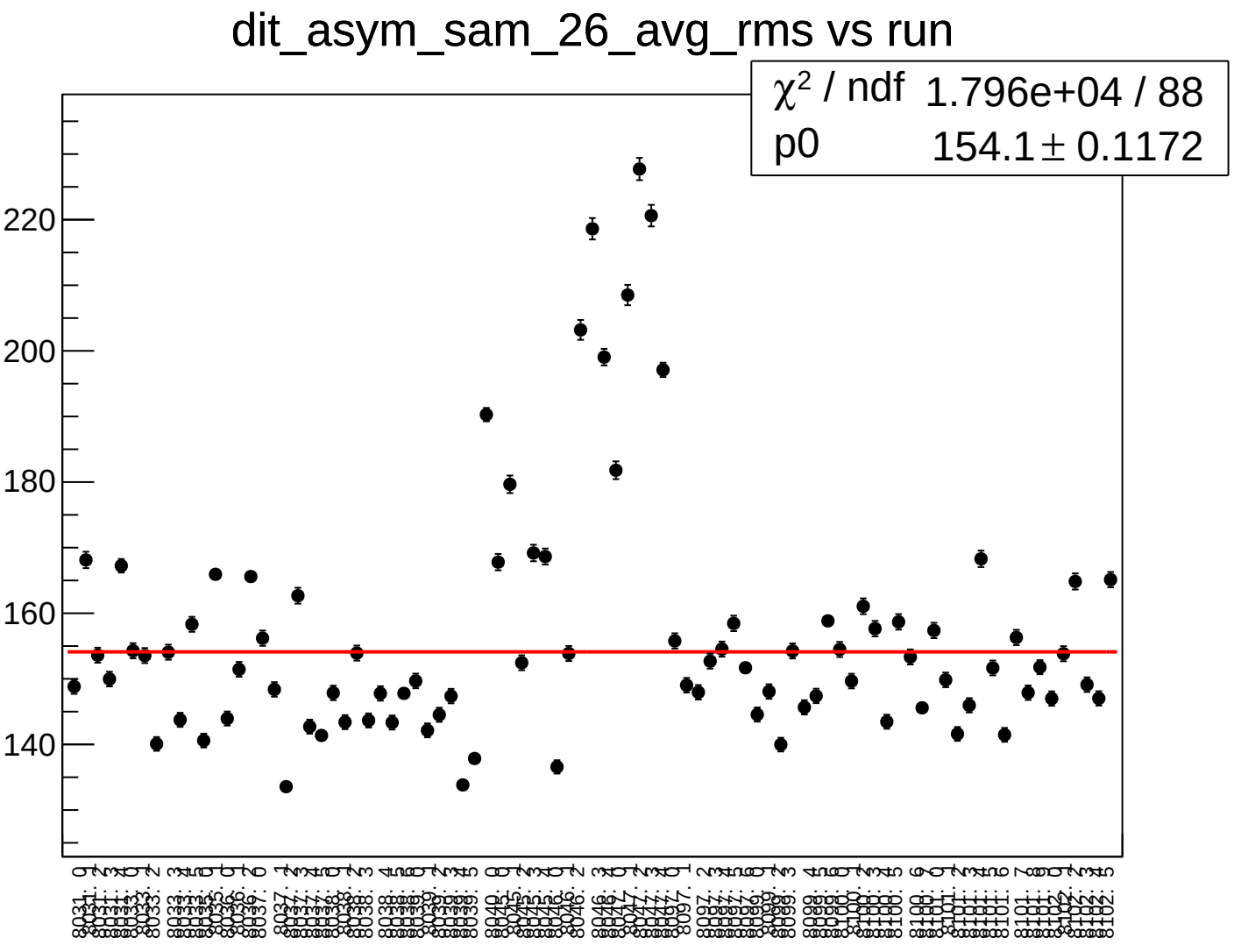

eigen_cor_asym_sam_26_avg_rms vs run
χ² / ndf 1.136e+04 / 88
p0 138.9 ± 0.1054
180
170
160
150
140
130
120

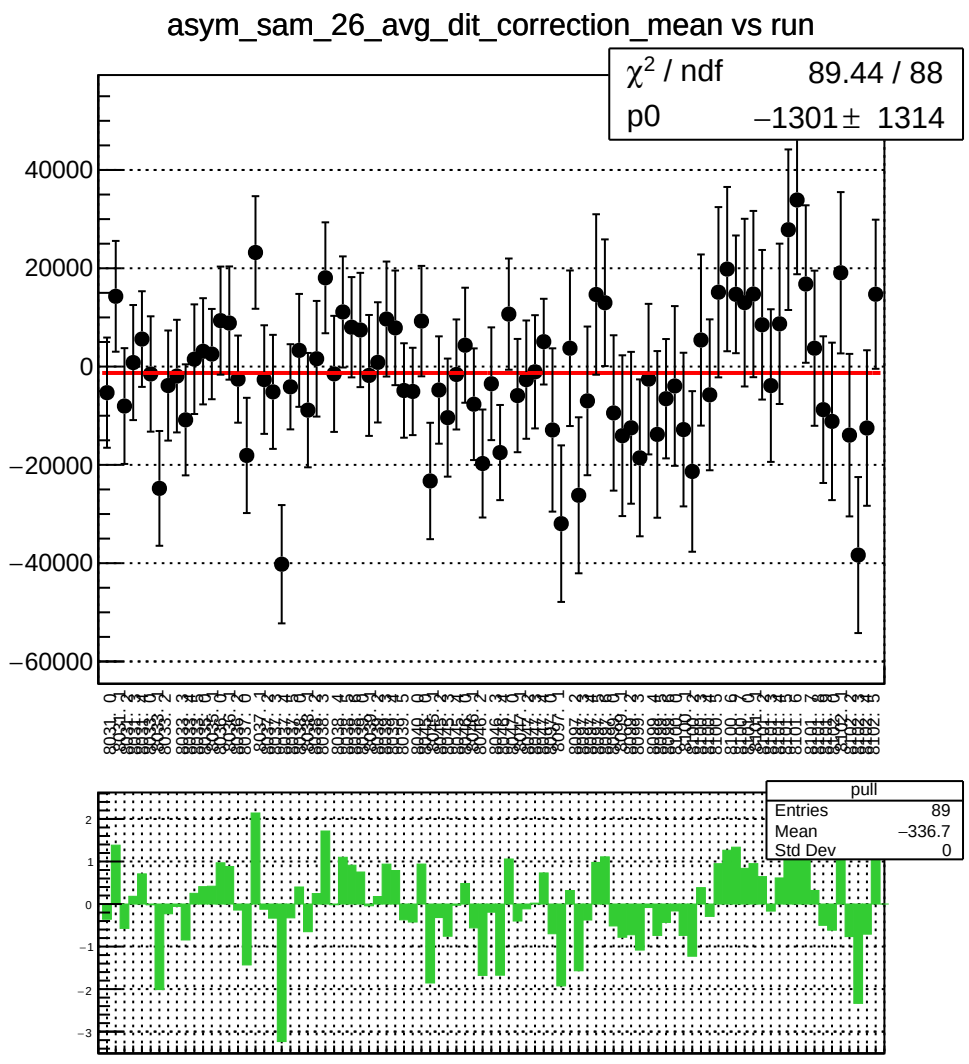

asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 89.86 / 88
p0 −1393 ± 1297
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 5038
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.000241
Std Dev 1.005
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

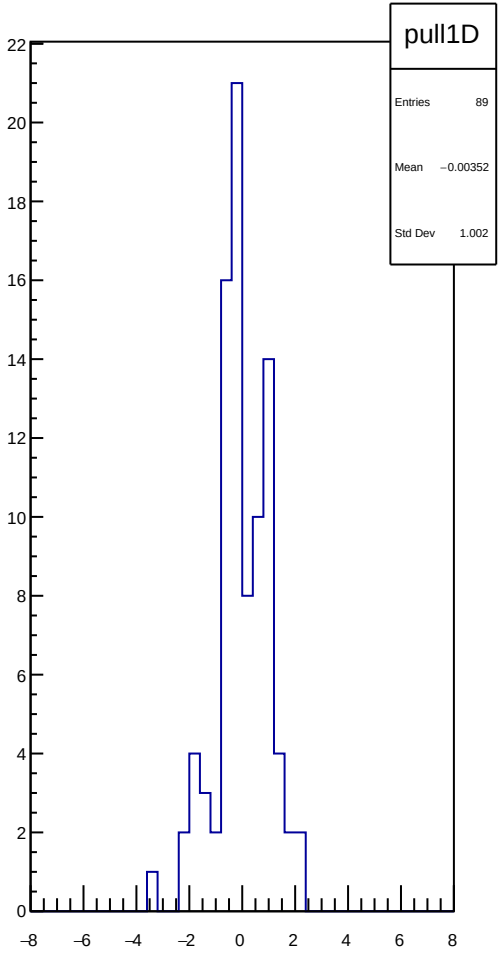

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 5.446e+04 / 88
p0 1193 ± 0.9171
1700
1600
1500
1400
1300
1200
1100
1000
900

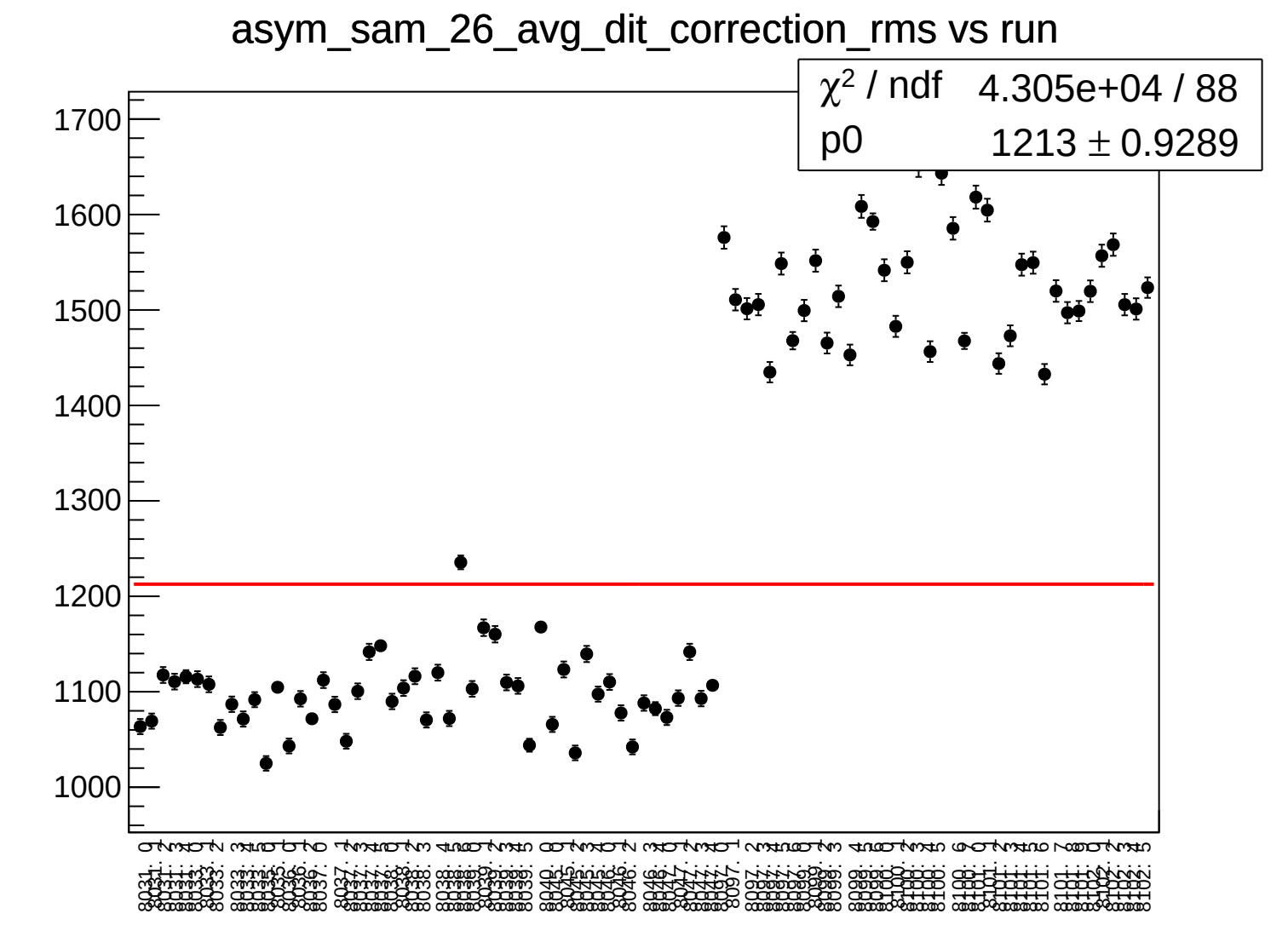

dit_asym_sam_26_avg_mean vs run
χ² / ndf 75.8 / 88
p0 2.158 ± 165.7
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 367.2
Std Dev 0
3
2
1
0
−1
−2

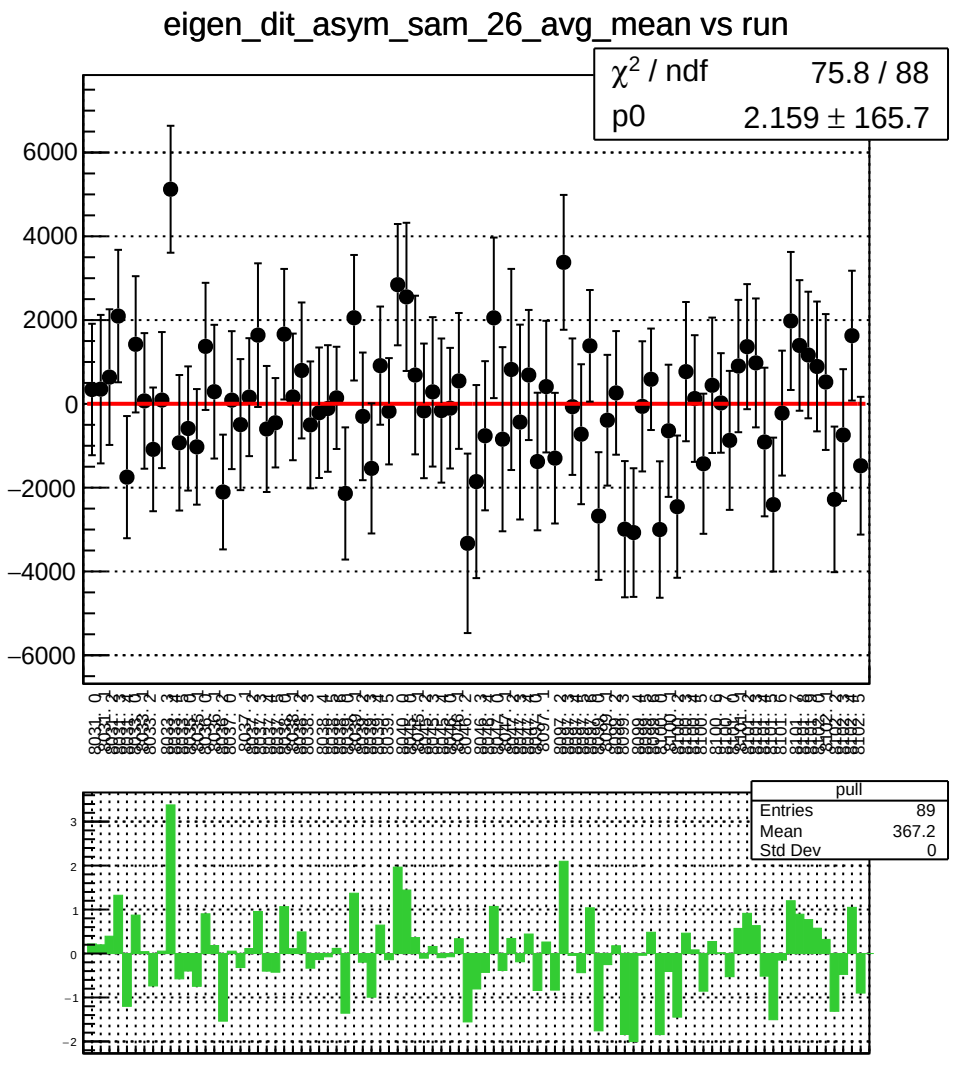

pull1D
Entries 89
Mean −0.008542
Std Dev 0.9228
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

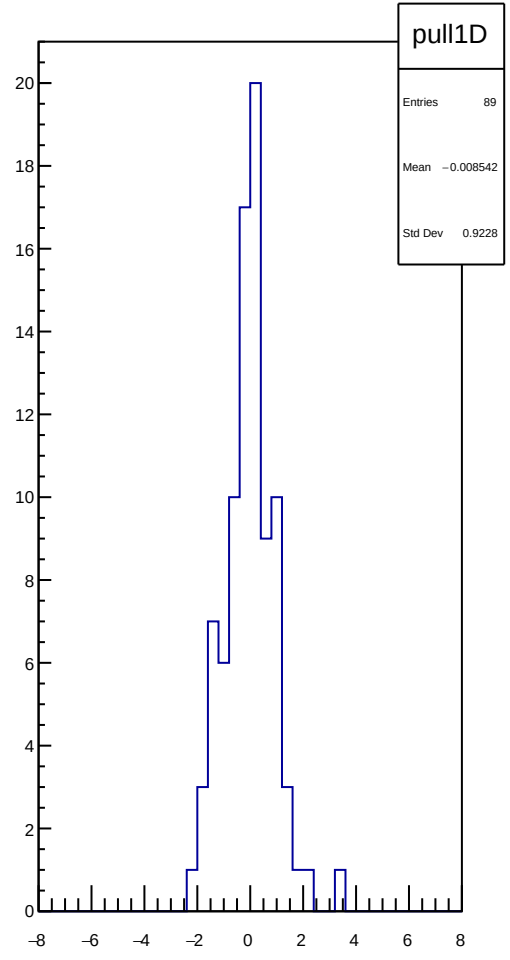

dit_asym_sam_26_avg_rms vs run
χ² / ndf 1.796e+04 / 88
p0 154.1 ± 0.1172
220
200
180
160
140

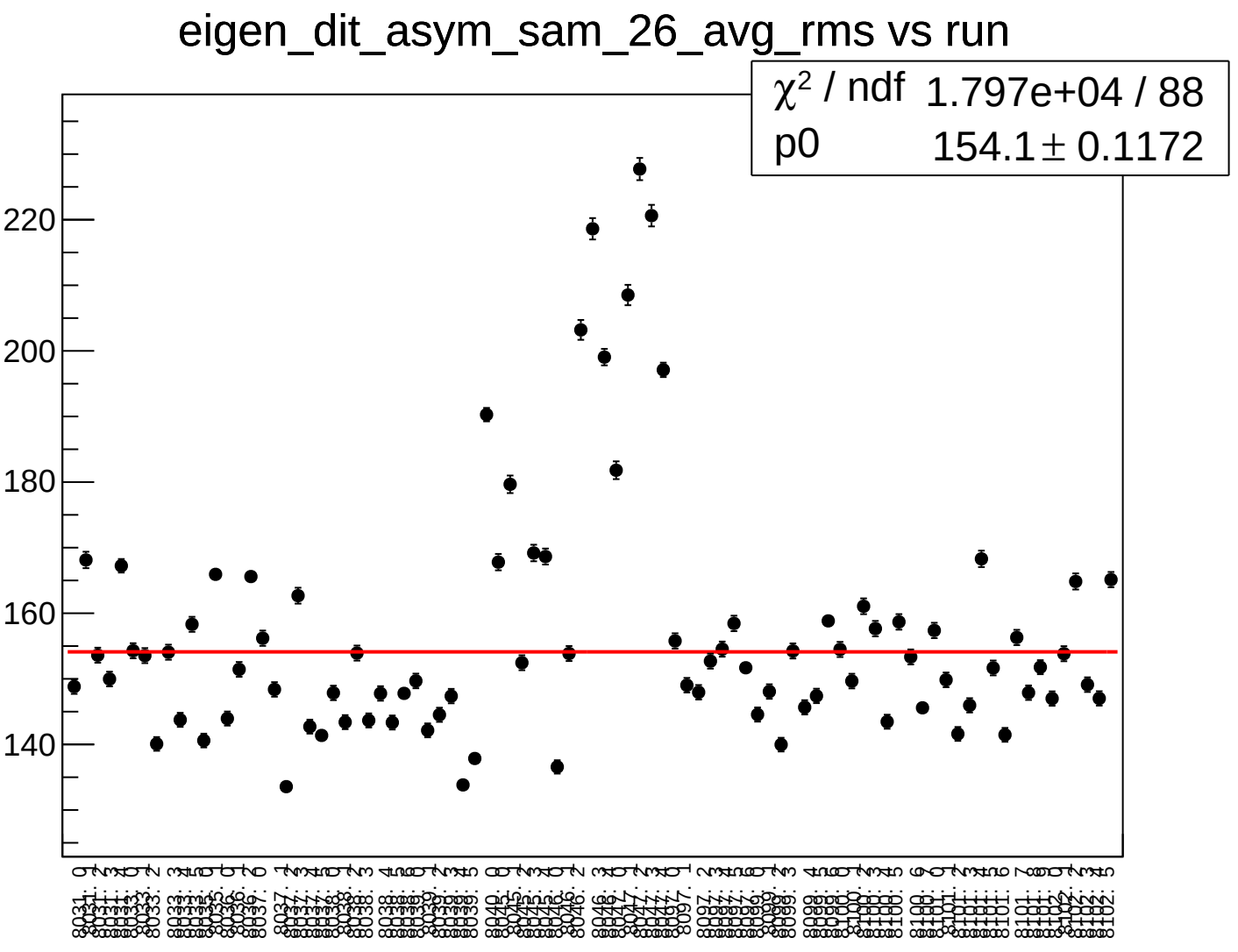

asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 89.44 / 88
p0 −1301 ± 1314
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −336.7
Std Dev 0
2
1
0
−1
−2
−3

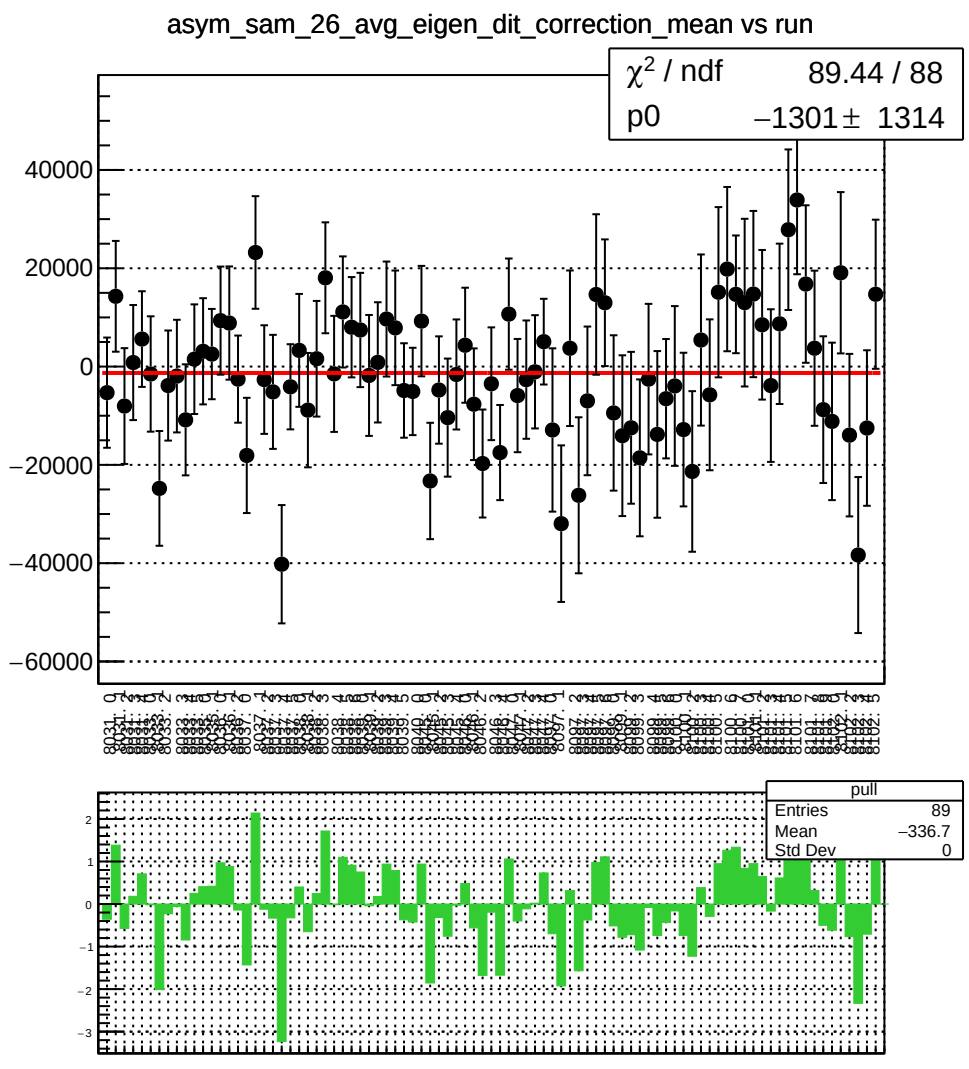

pull1D
Entries 89
Mean −0.00352
Std Dev 1.002
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

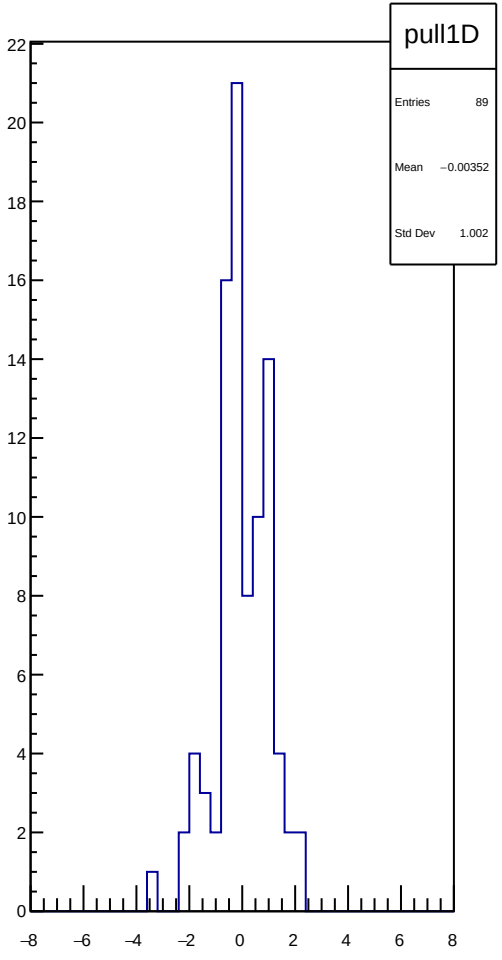

asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 4.305e+04 / 88
p0 1213 ± 0.9289
1700
1600
1500
1400
1300
1200
1100
1000

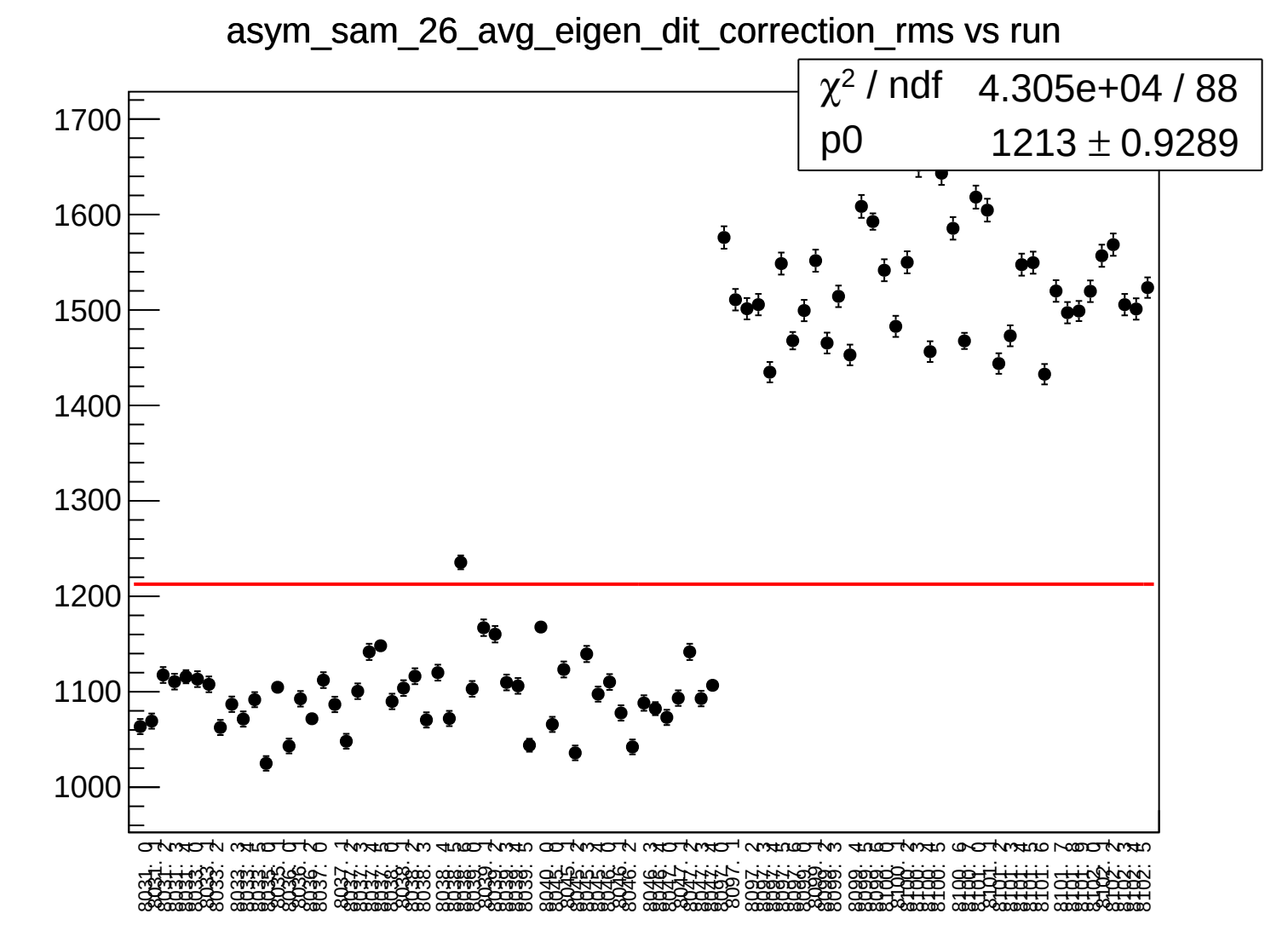

eigen_dit_asym_sam_26_avg_mean vs run
$\chi^2$ / ndf 75.8 / 88
p0 2.159 ± 165.7
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 367.2
Std Dev 0
3
2
1
0
−1
−2

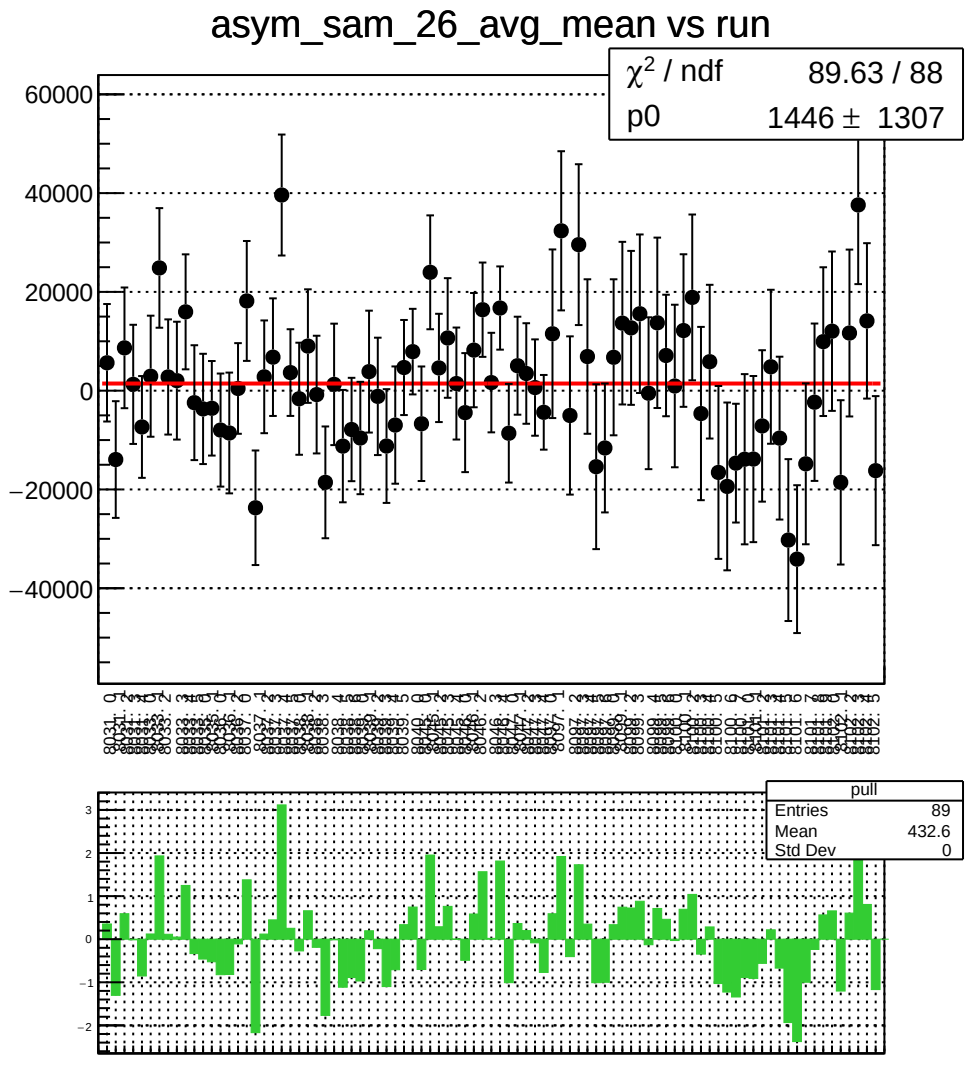

pull1D
Entries 89
Mean −0.008542
Std Dev 0.9228
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

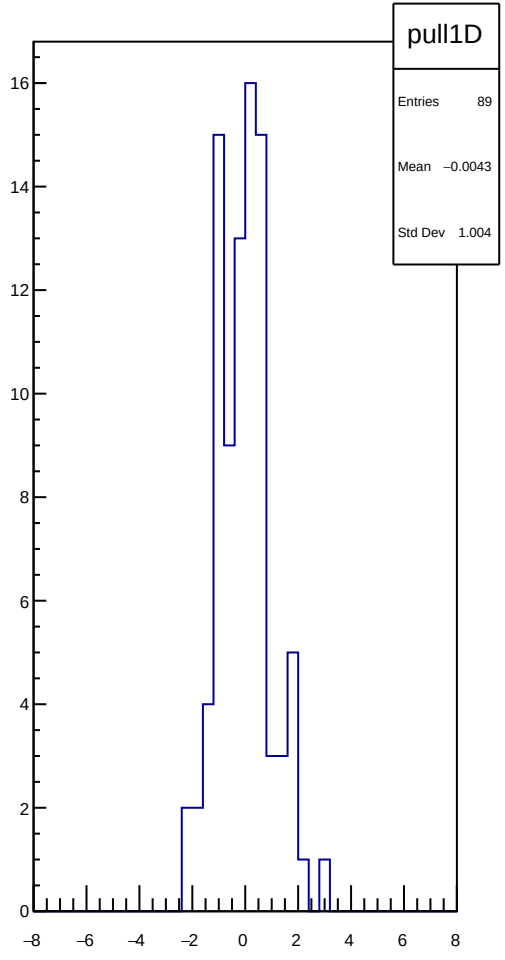

eigen_dit_asym_sam_26_avg_rms vs run
$\chi^2$ / ndf 1.797e+04 / 88
p0 154.1 ± 0.1172
220
200
180
160
140

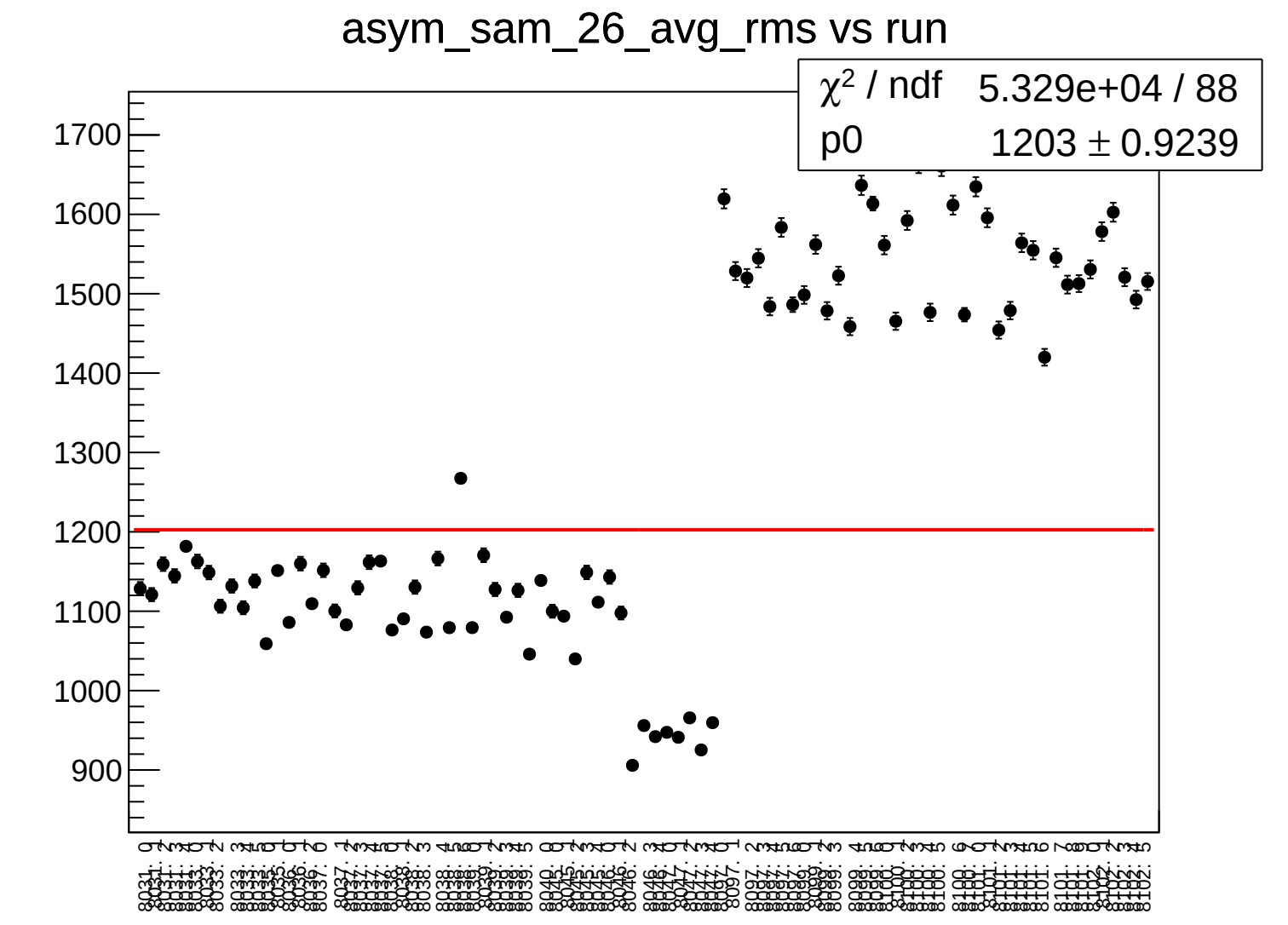

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 89.44 / 88
p0 −1301 ± 1314
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −336.7
Std Dev 0
2
1
0
−1
−2
−3

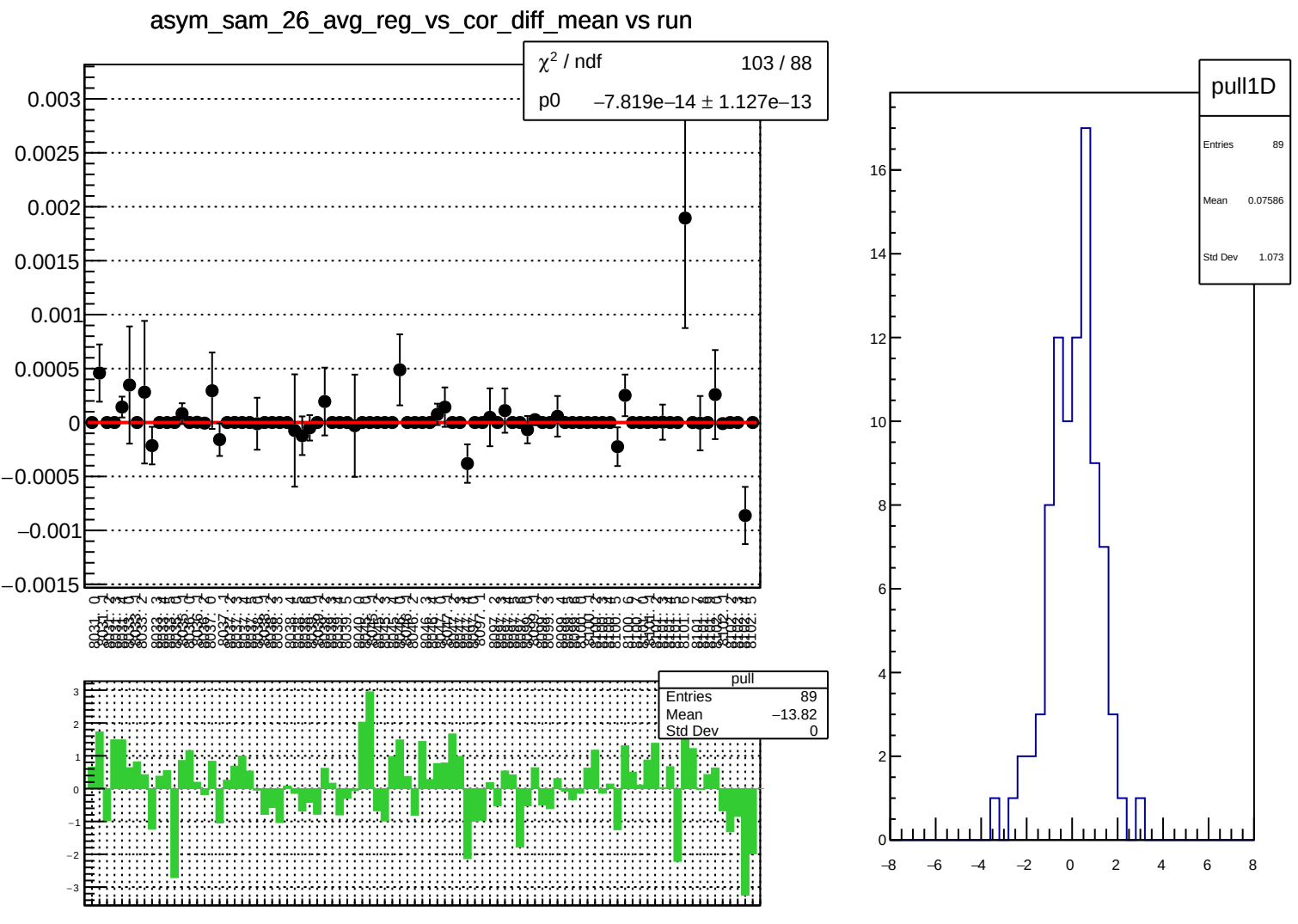

pull1D
Entries 89
Mean −0.00352
Std Dev 1.002
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

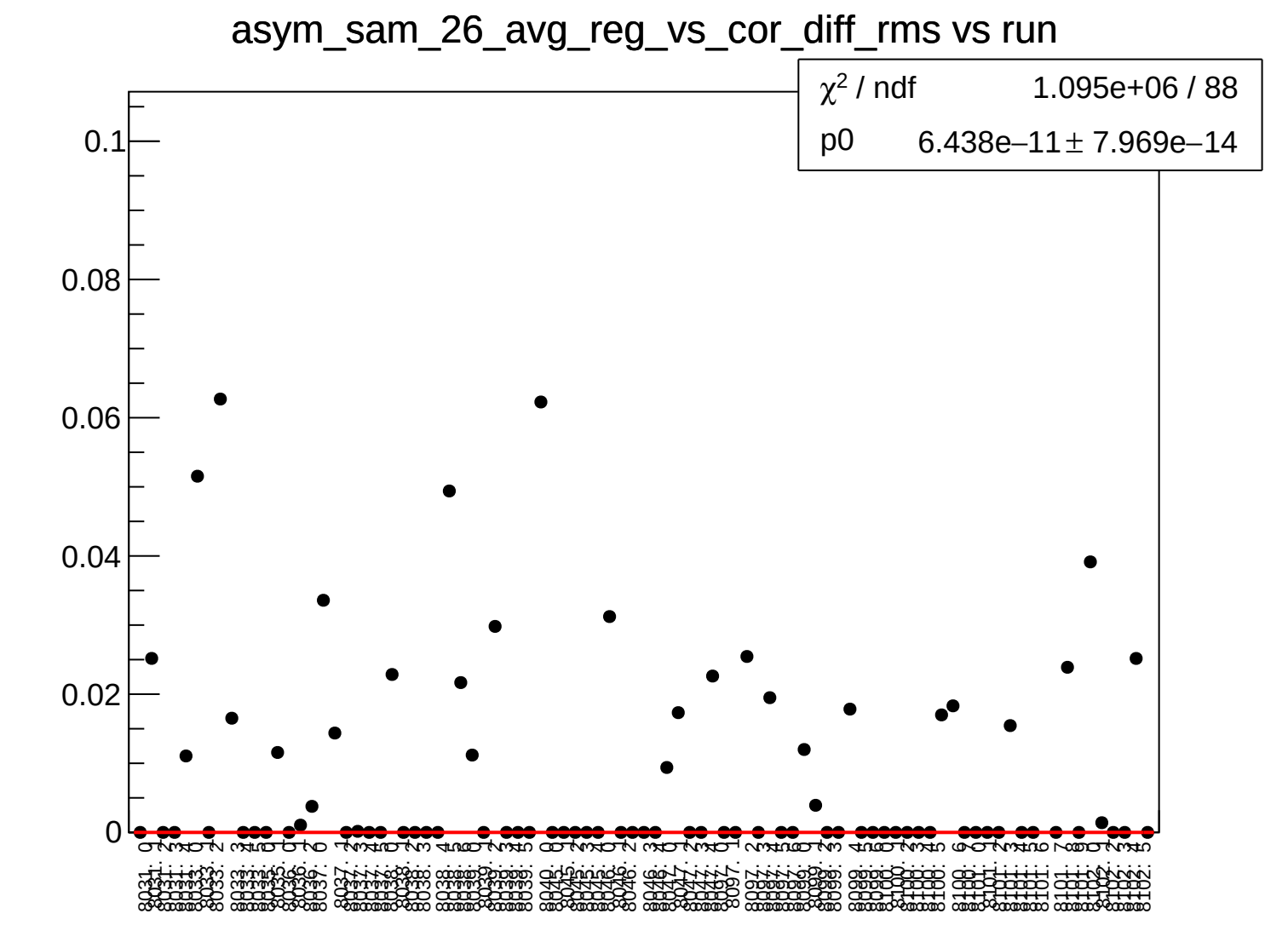

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 4.305e+04 / 88
p0 1213 ± 0.9289
1700
1600
1500
1400
1300
1200
1100
1000

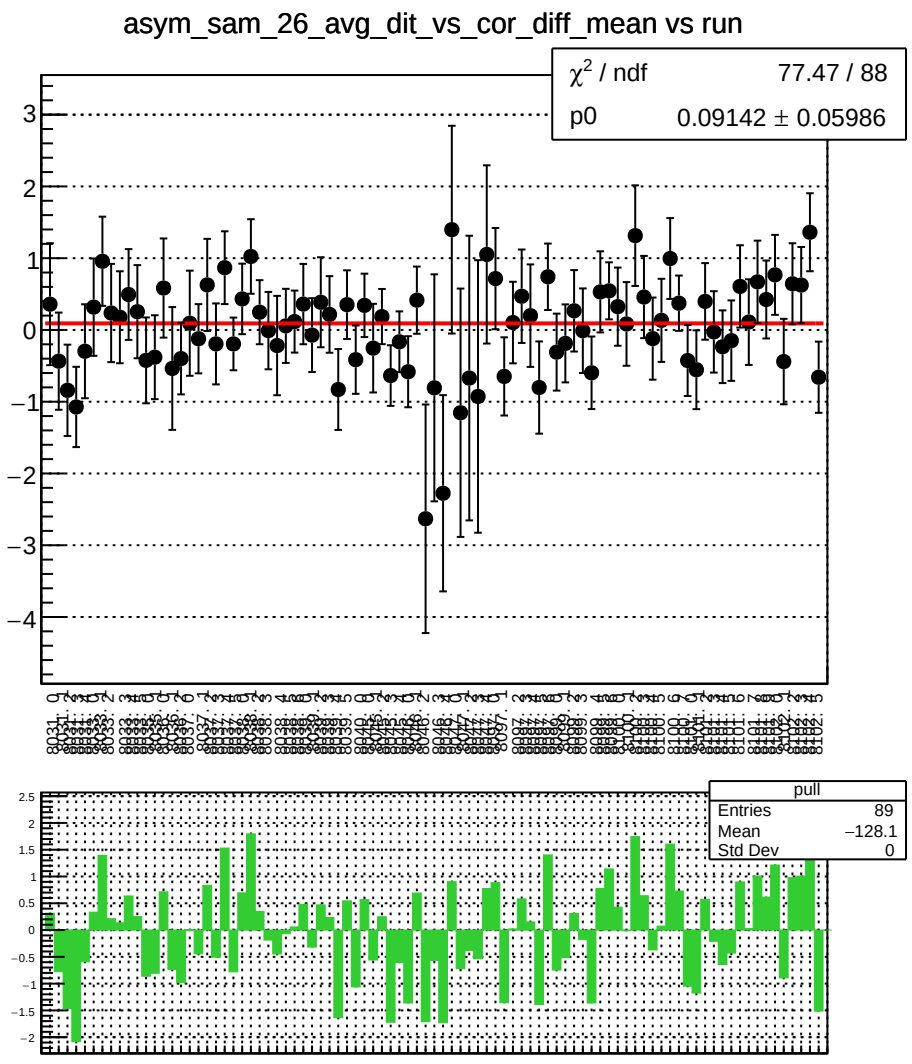

asym_sam_26_avg_mean vs run
χ² / ndf 89.63 / 88
p0 1446 ± 1307
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 432.6
Std Dev 0
3
2
1
0
−1
−2

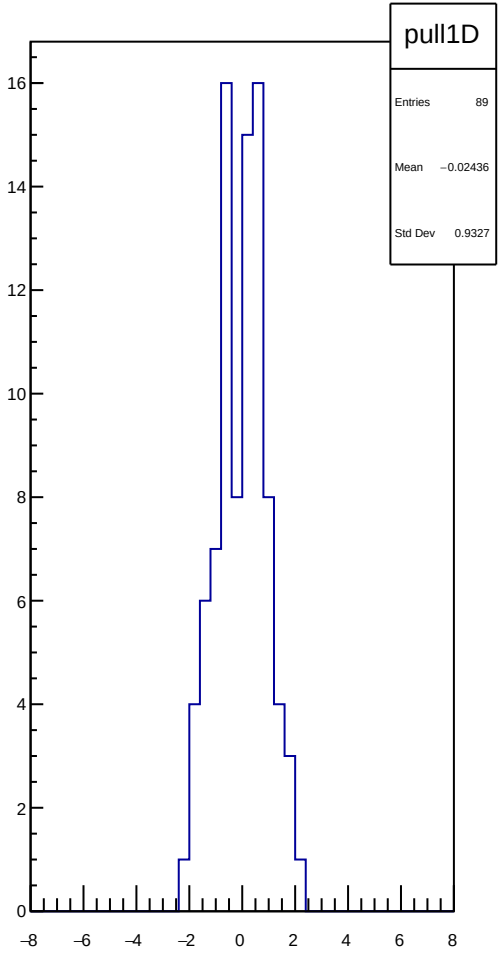

pull1D
Entries 89
Mean −0.0043
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

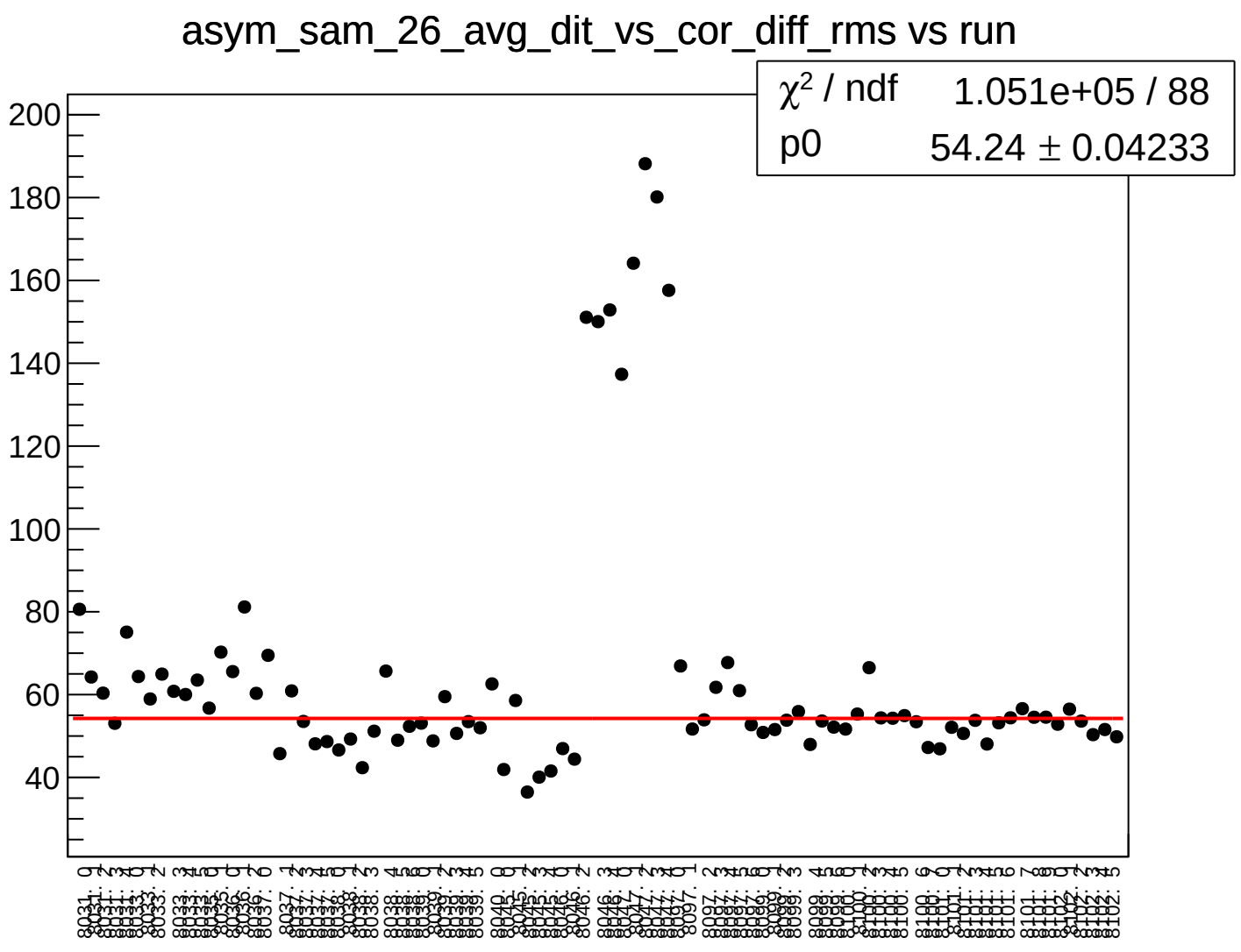

asym_sam_26_avg_rms vs run
χ² / ndf 5.329e+04 / 88
p0 1203 ± 0.9239
1700
1600
1500
1400
1300
1200
1100
1000
900

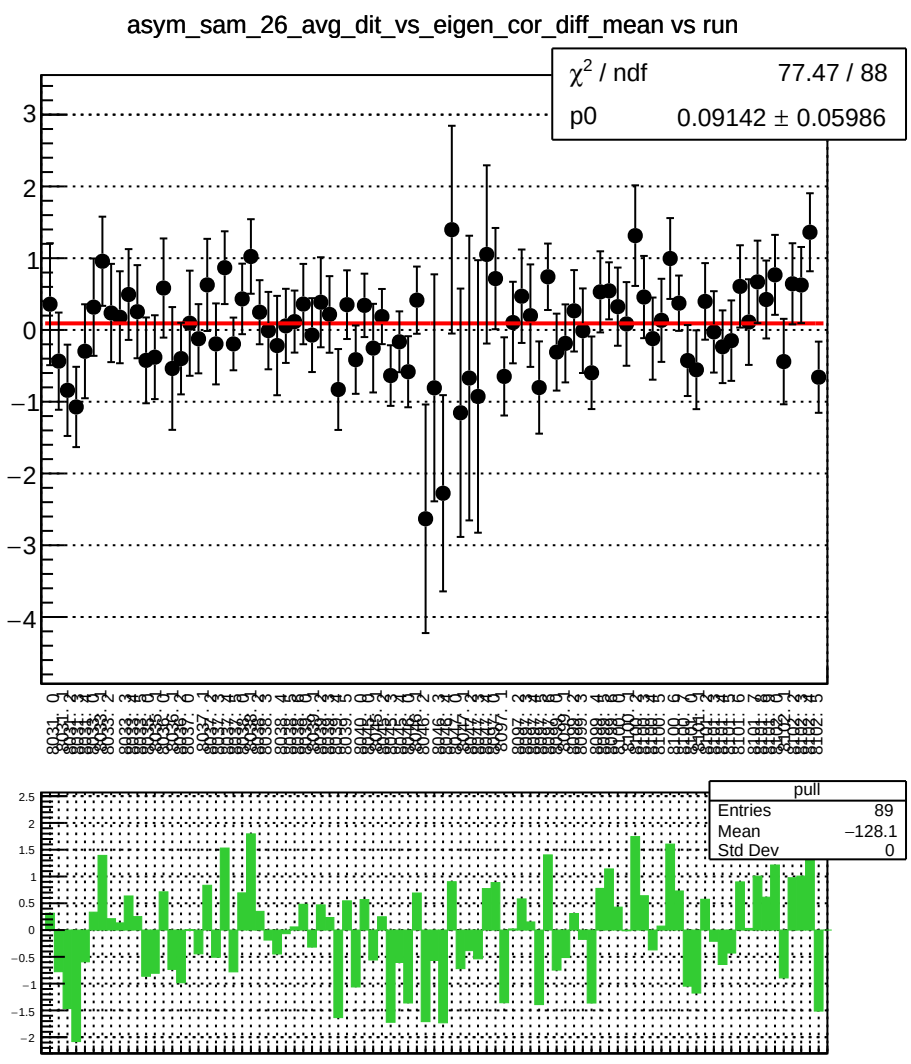

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 103 / 88
p0 −7.819e−14 ± 1.127e−13
pull
Entries 89
Mean −13.82
Std Dev 0
pull1D
Entries 89
Mean 0.07586
Std Dev 1.073

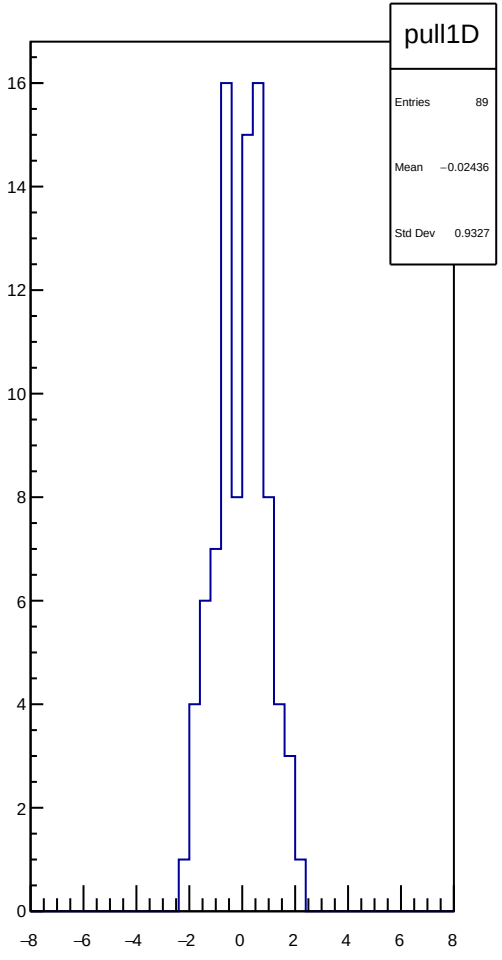

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.095e+06 / 88
p0 6.438e−11 ± 7.969e−14
0.1
0.08
0.06
0.04
0.02
0

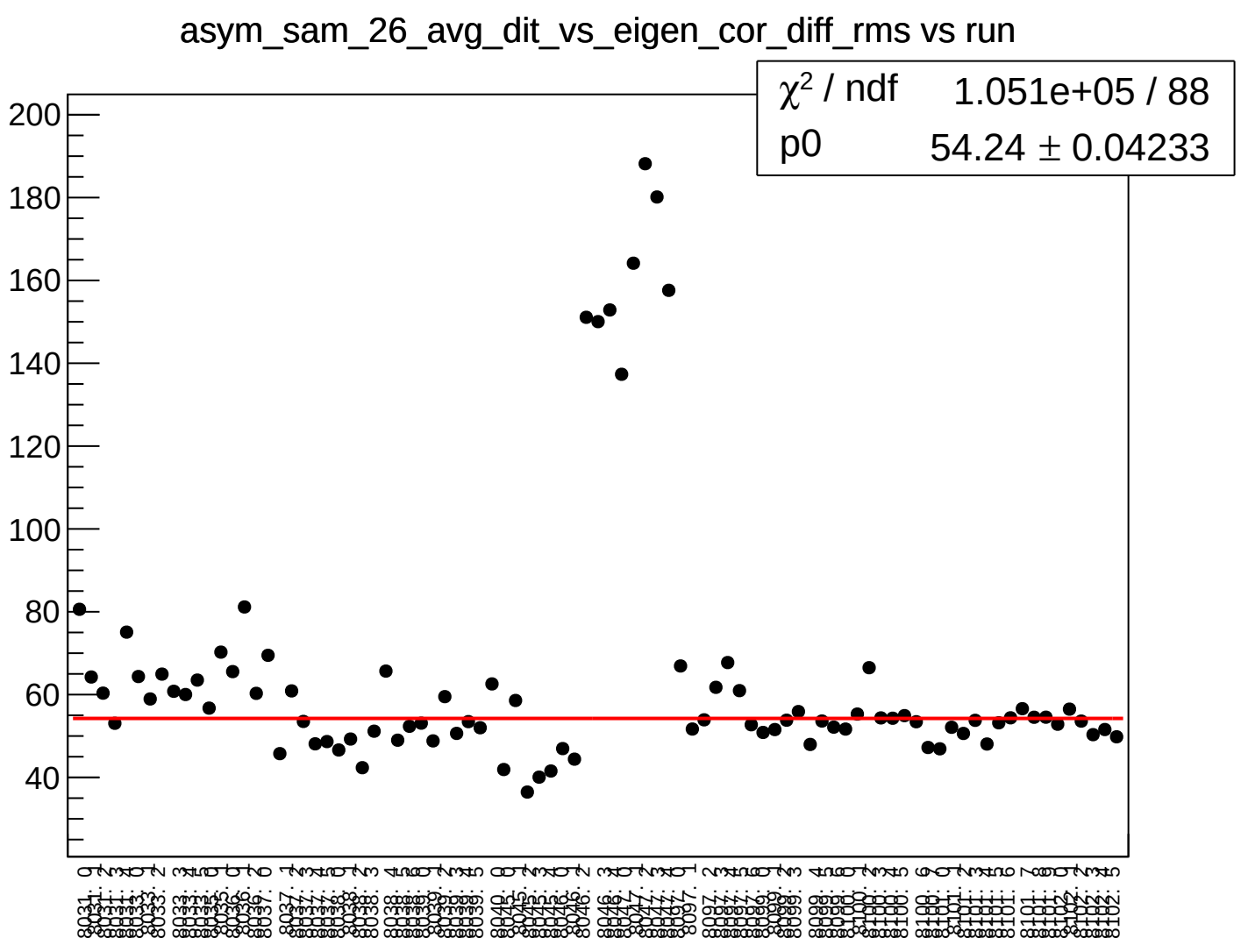

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 77.47 / 88
p0 0.09142 ± 0.05986
pull
Entries 89
Mean −128.1
Std Dev 0

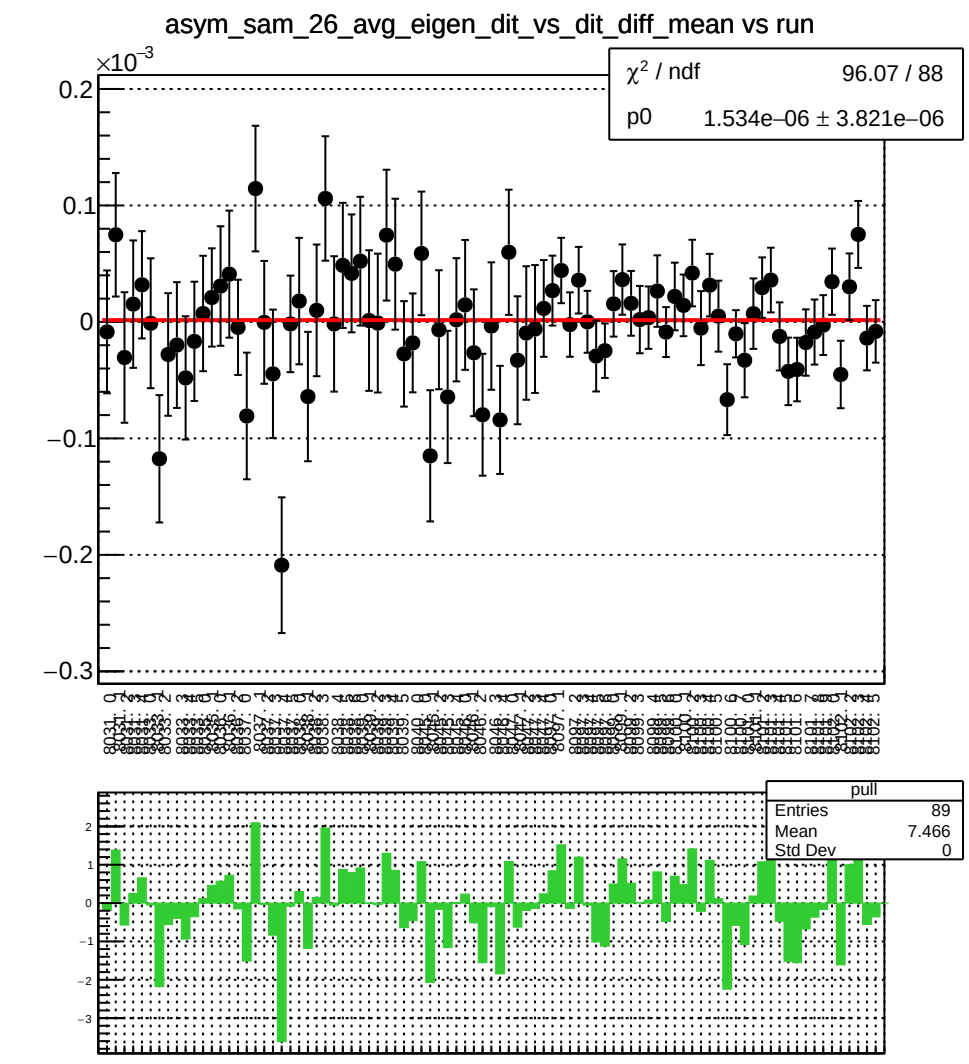

pull1D
Entries 89
Mean −0.02436
Std Dev 0.9327

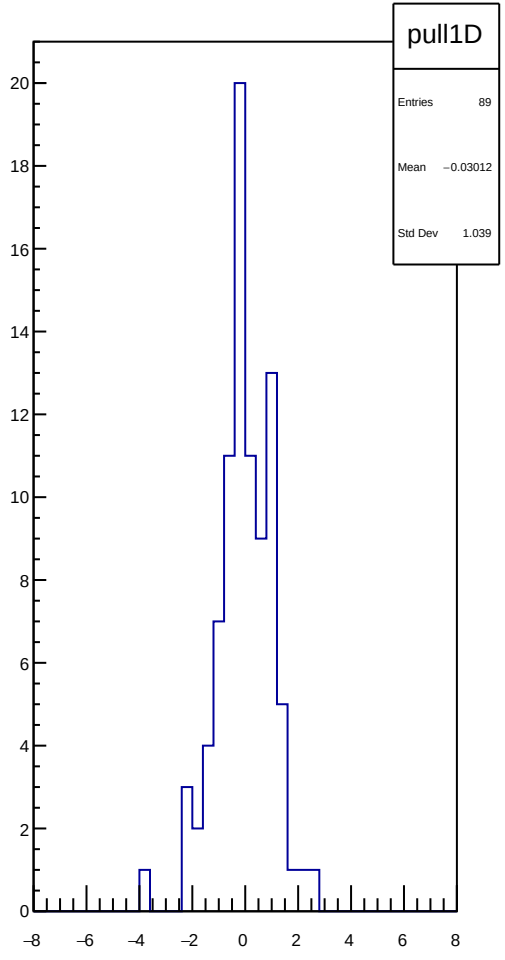

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.051e+05 / 88
p0 54.24 ± 0.04233
200
180
160
140
120
100
80
60
40

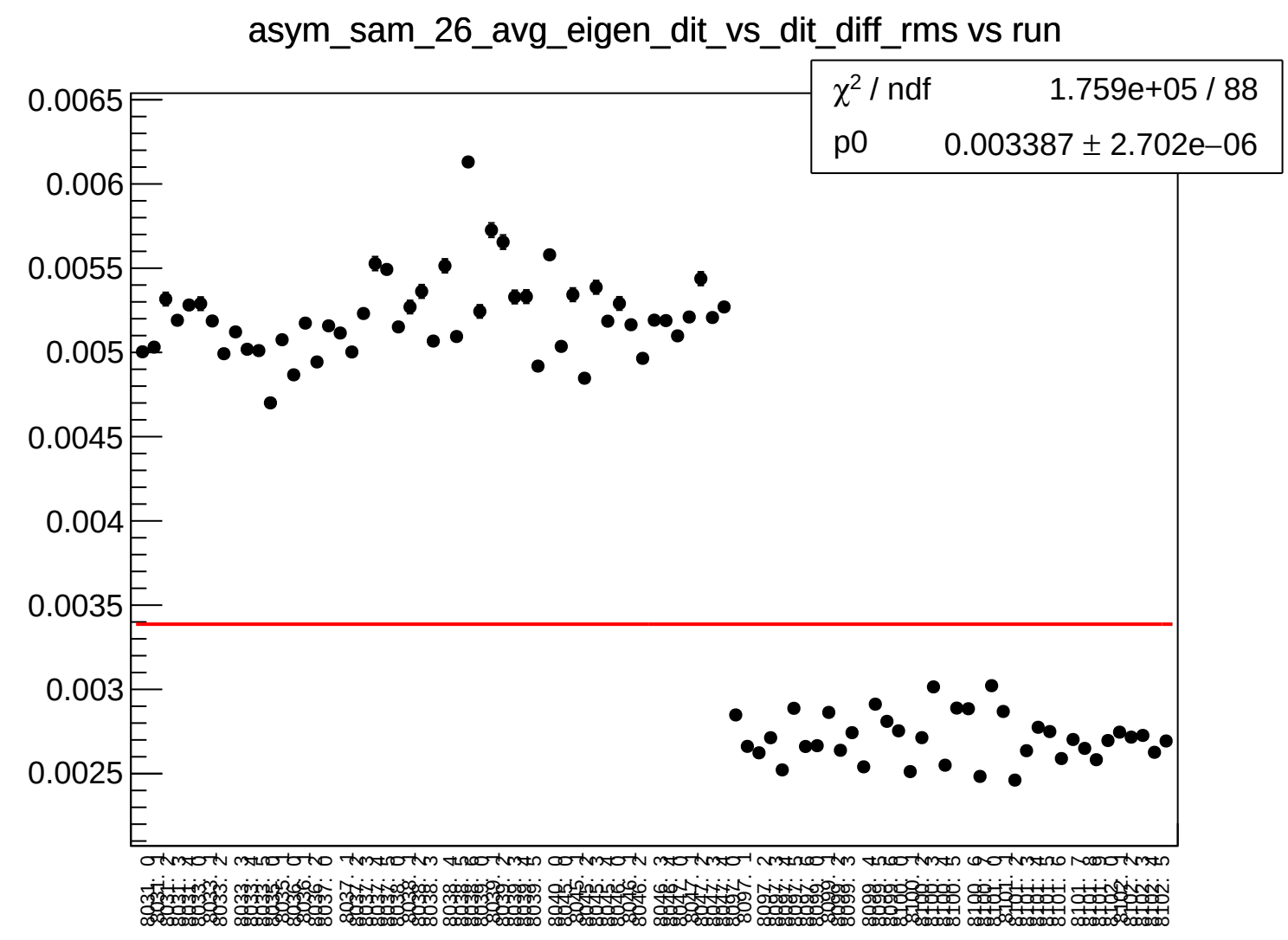

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.47 / 88
p0 0.09142 ± 0.05986
pull
Entries 89
Mean −128.1
Std Dev 0

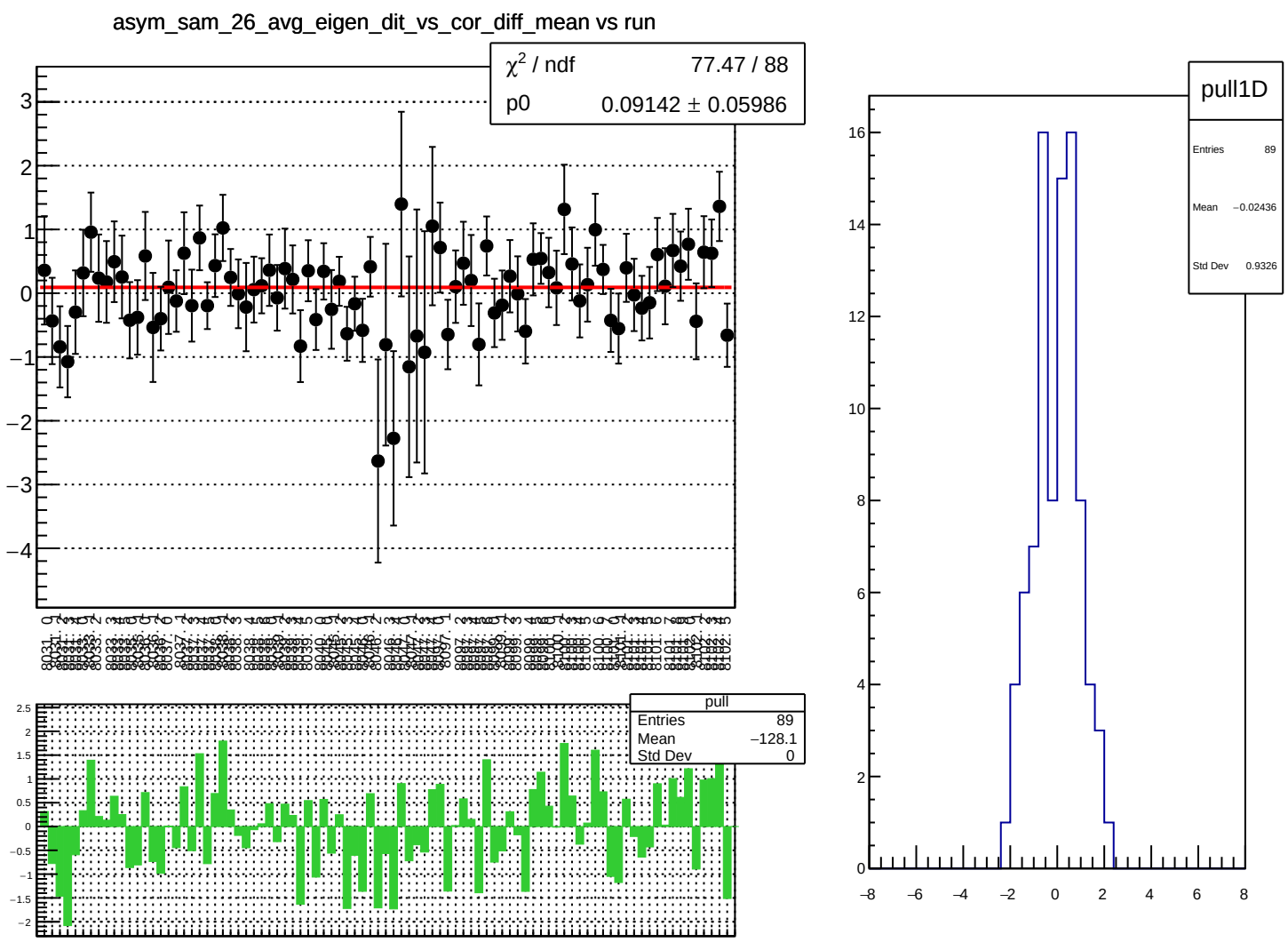

pull1D
Entries 89
Mean −0.02436
Std Dev 0.9327

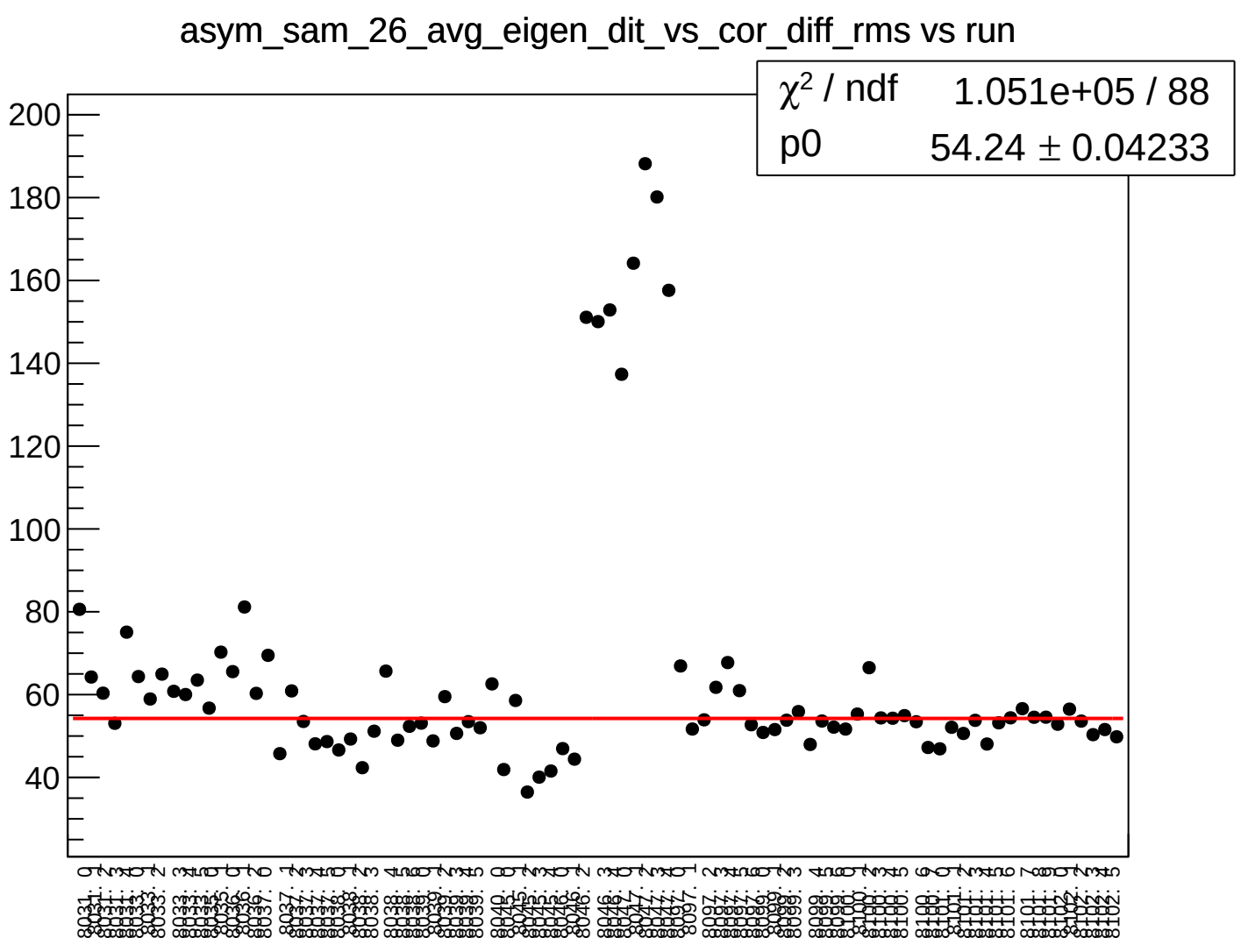

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.051e+05 / 88
p0 54.24 ± 0.04233
200
180
160
140
120
100
80
60
40

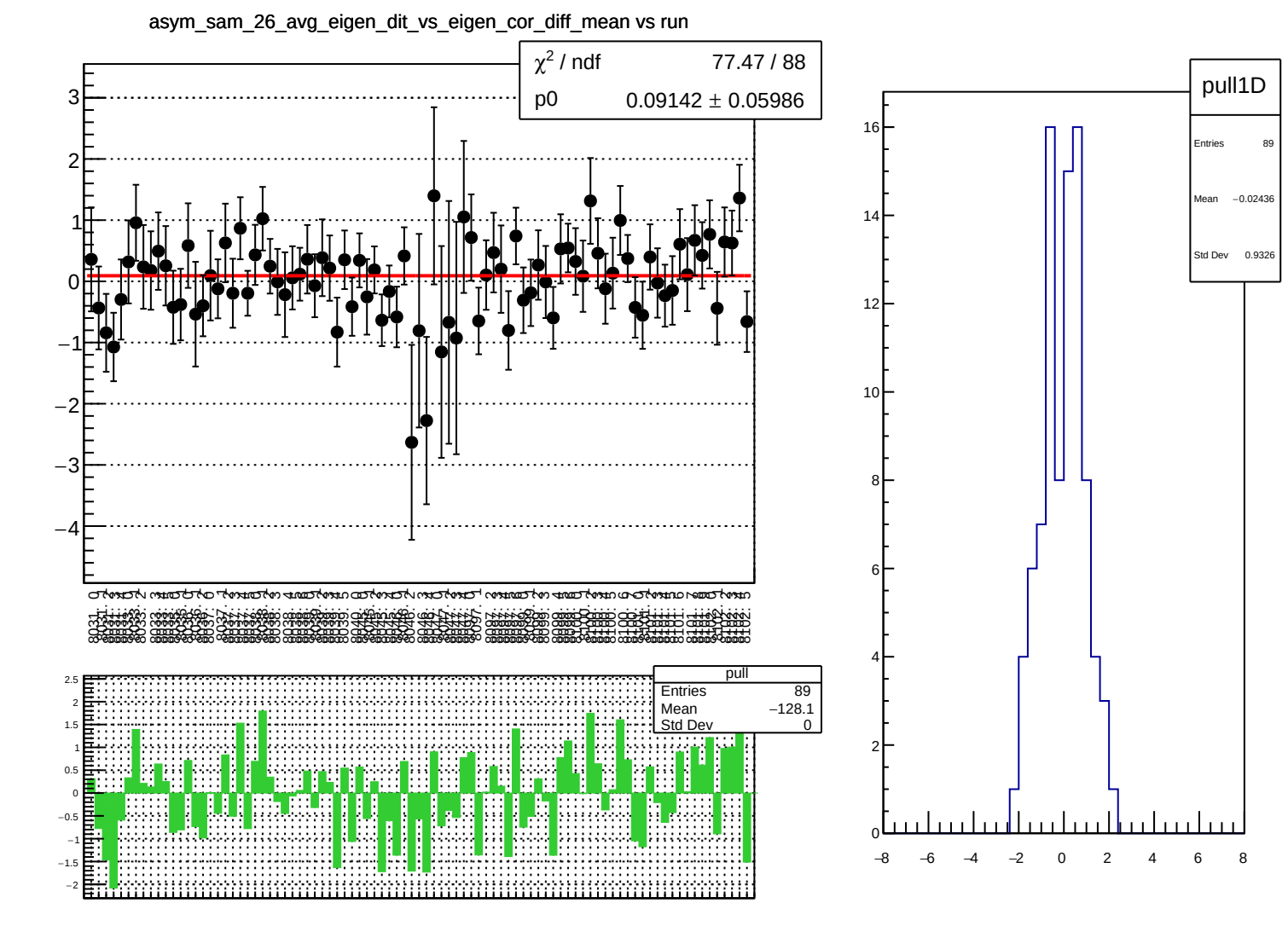

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.07 / 88
p0 1.534e−06 ± 3.821e−06
pull
Entries 89
Mean 7.466
Std Dev 0

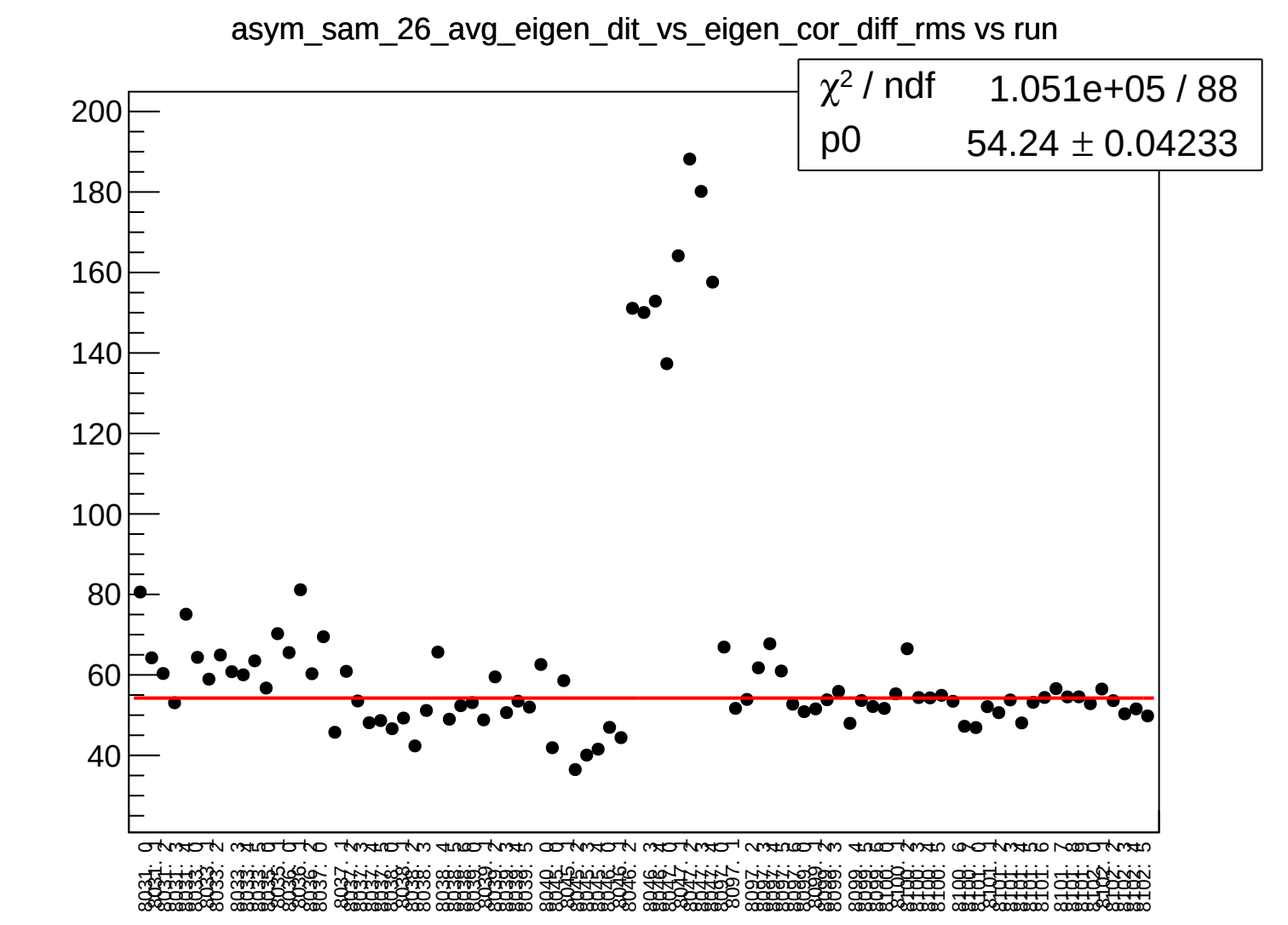

pull1D
Entries 89
Mean −0.03012
Std Dev 1.039

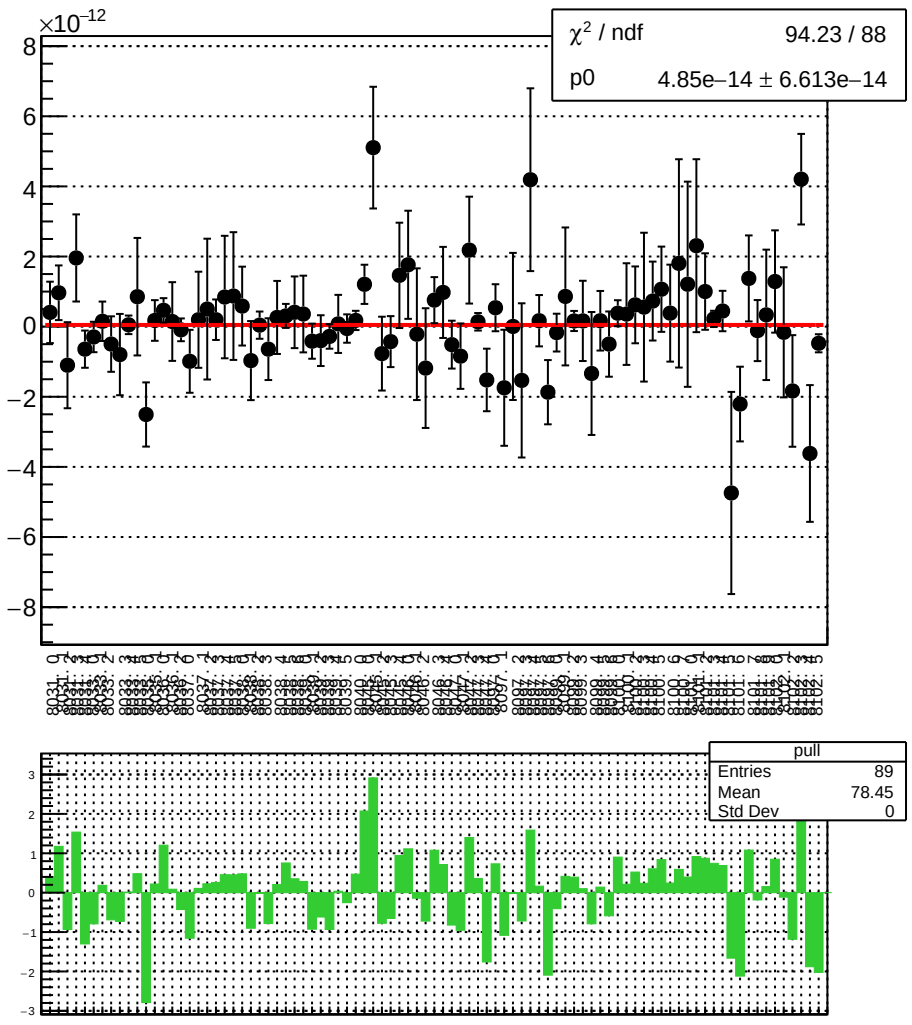

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.759e+05 / 88
p0 0.003387 ± 2.702e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025

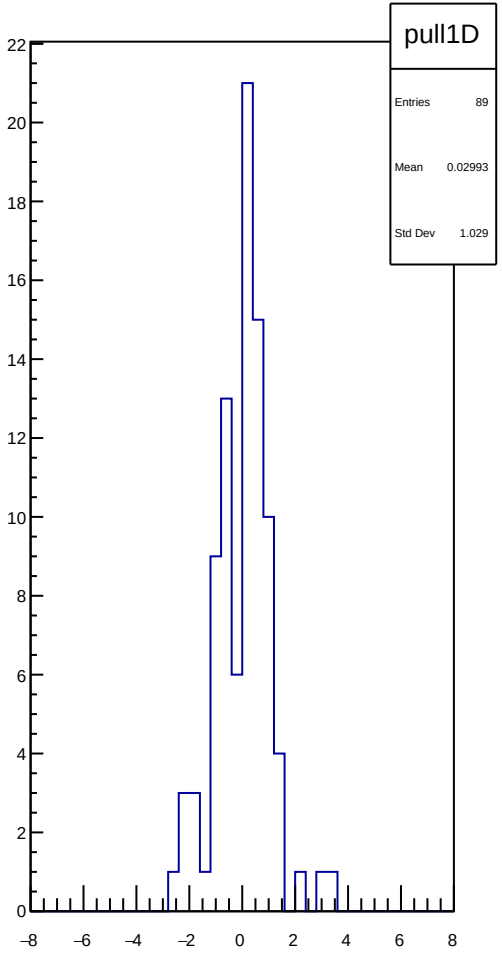

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.47 / 88
p0 0.09142 ± 0.05986
pull
Entries 89
Mean −128.1
Std Dev 0
pull1D
Entries 89
Mean −0.02436
Std Dev 0.9326

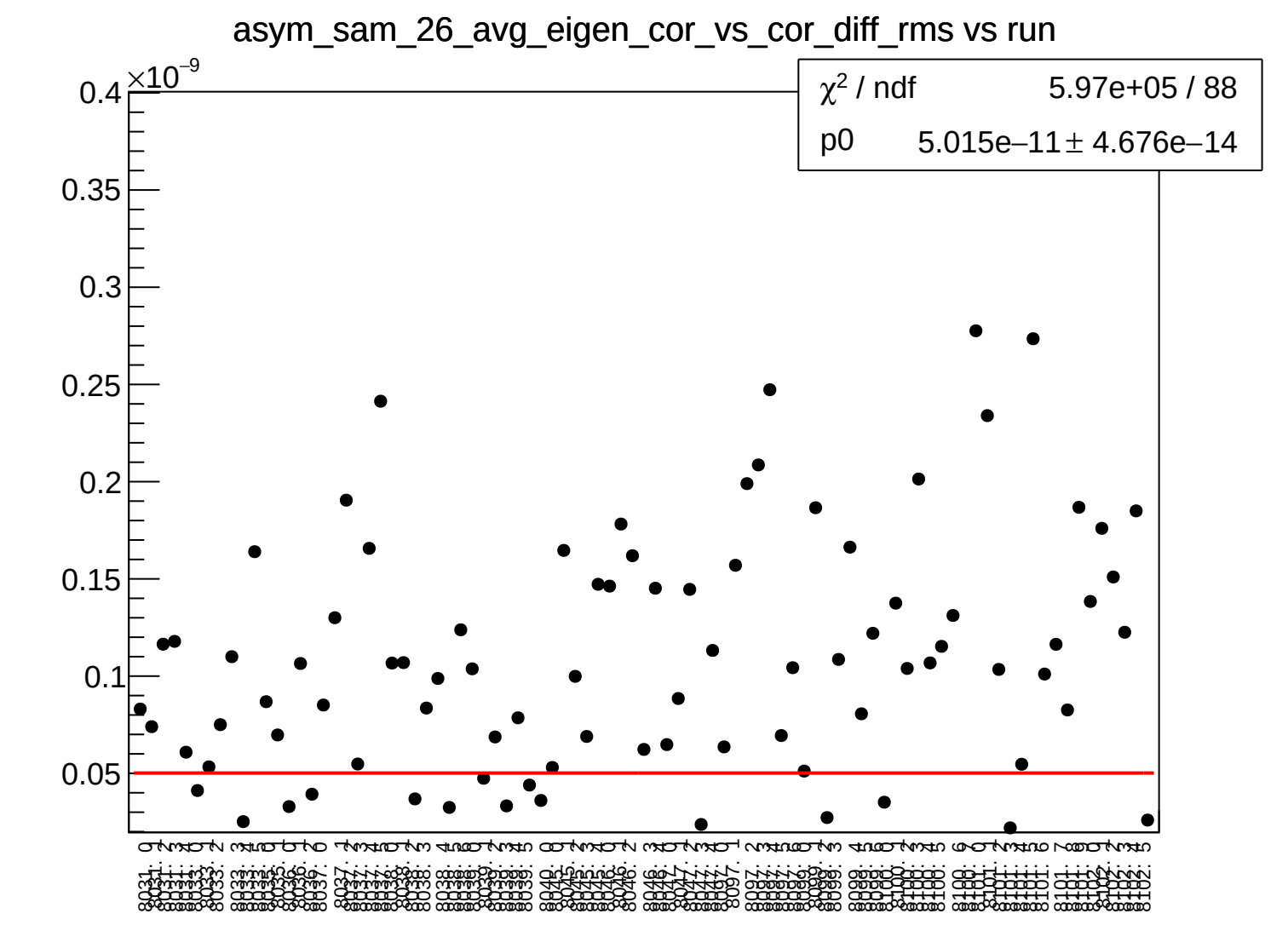

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.051e+05 / 88
p0 54.24 ± 0.04233
200
180
160
140
120
100
80
60
40

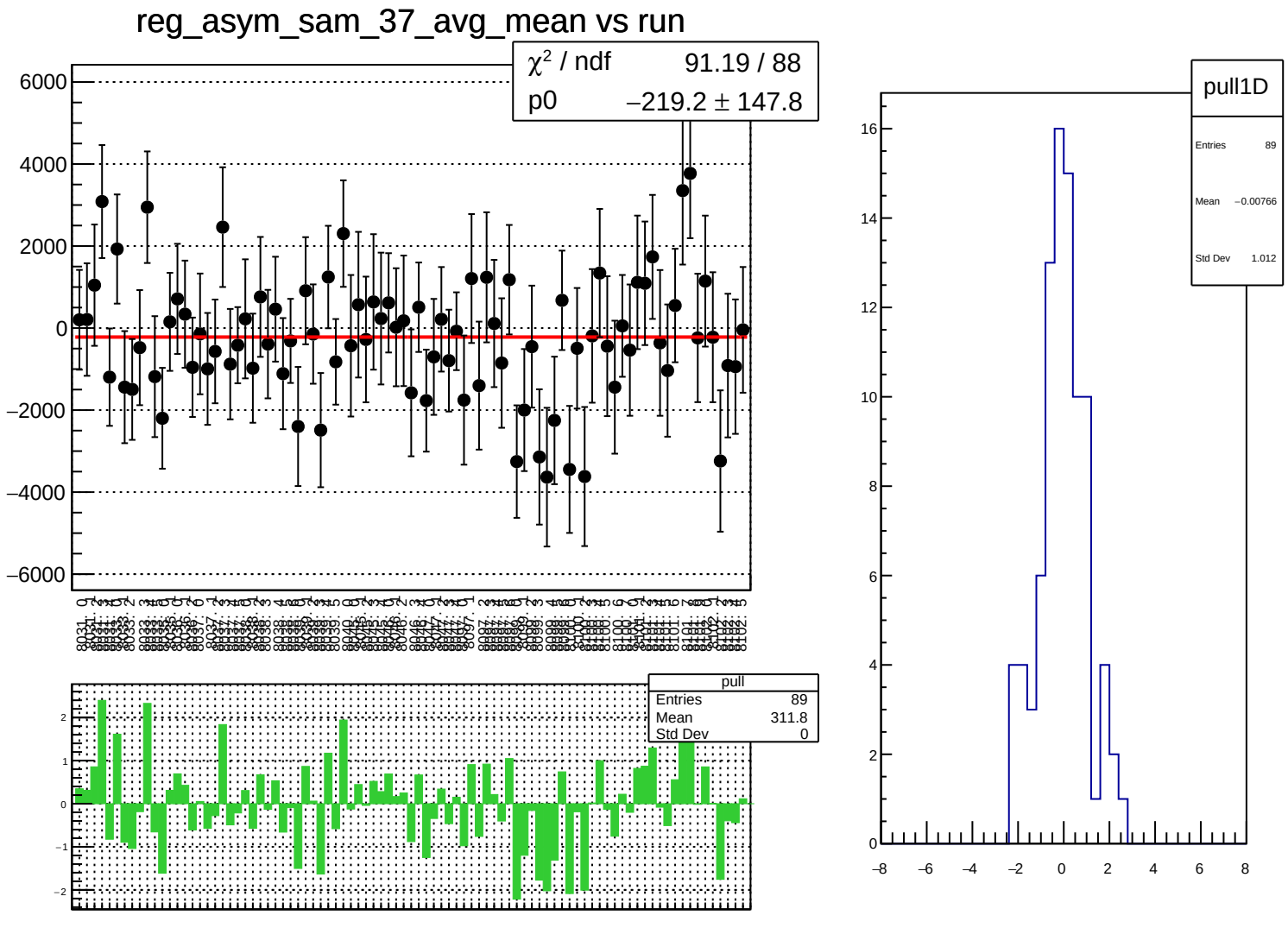

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.47 / 88
p0 0.09142 ± 0.05986
pull
Entries 89
Mean −128.1
Std Dev 0
pull1D
Entries 89
Mean −0.02436
Std Dev 0.9326

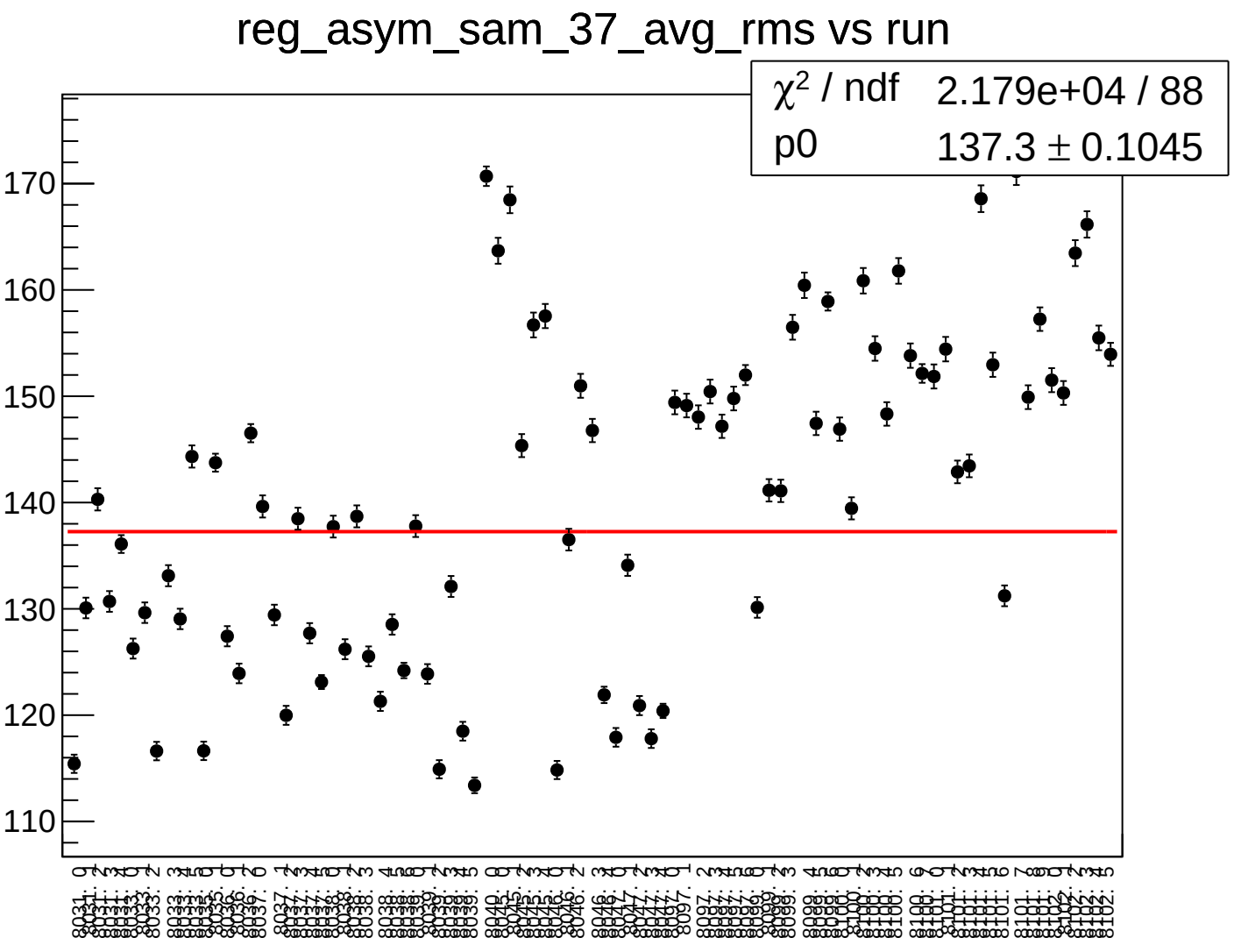

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.051e+05 / 88
p0 54.24 ± 0.04233
200
180
160
140
120
100
80
60
40

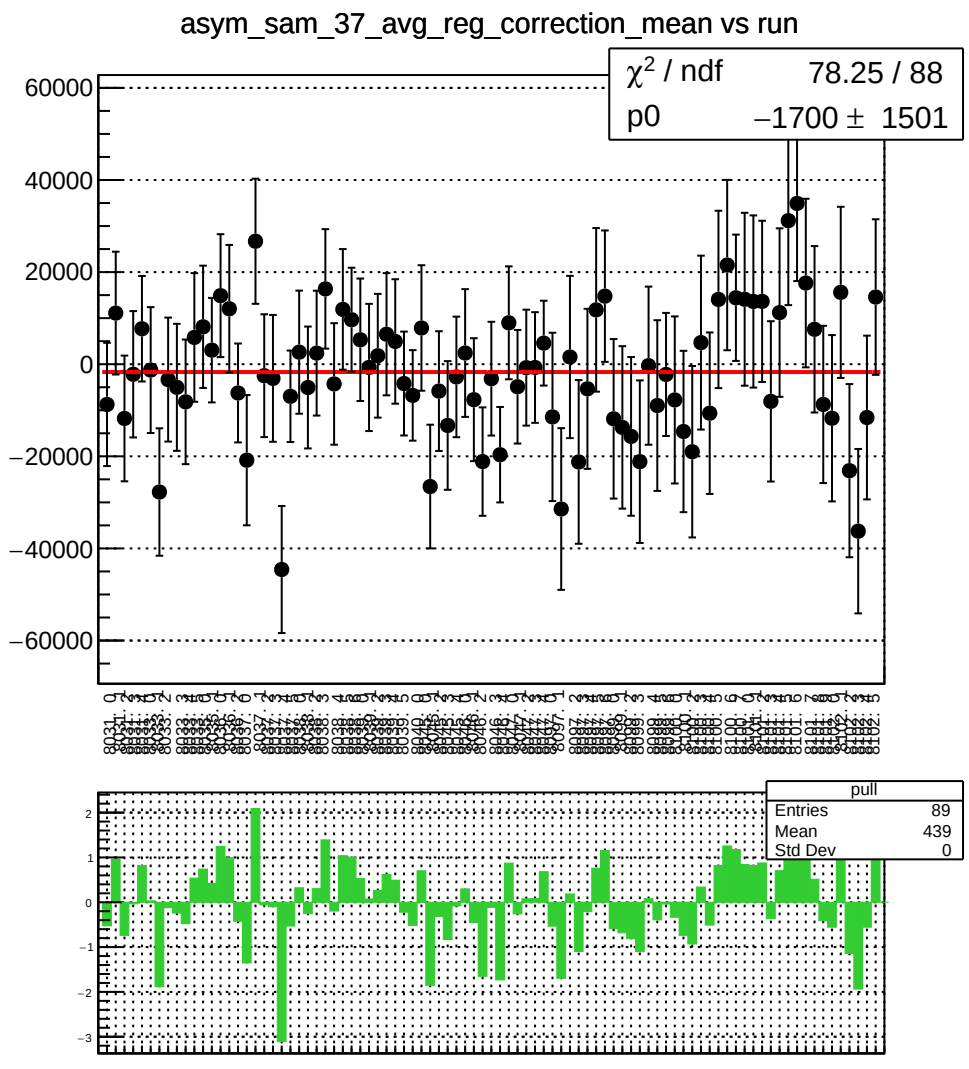

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.23 / 88
p0 4.85e−14 ± 6.613e−14
pull
Entries 89
Mean 78.45
Std Dev 0

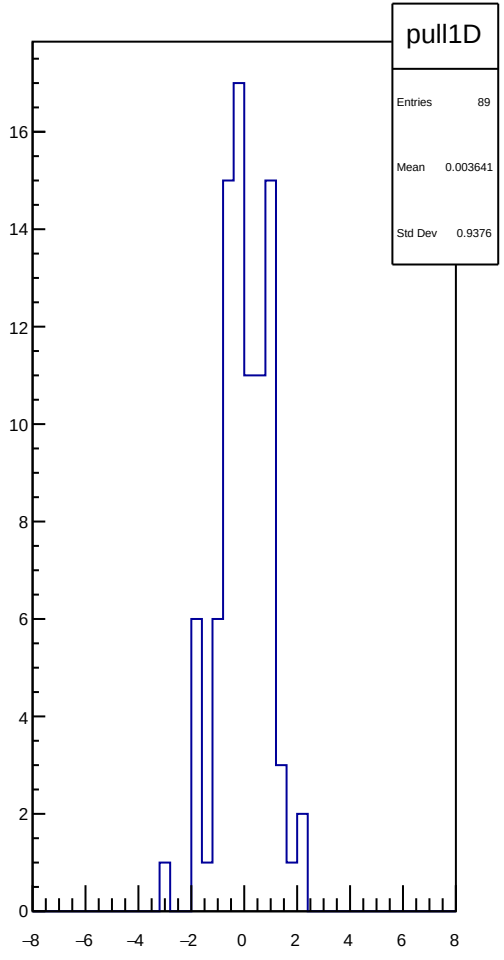

pull1D
Entries 89
Mean 0.02993
Std Dev 1.029

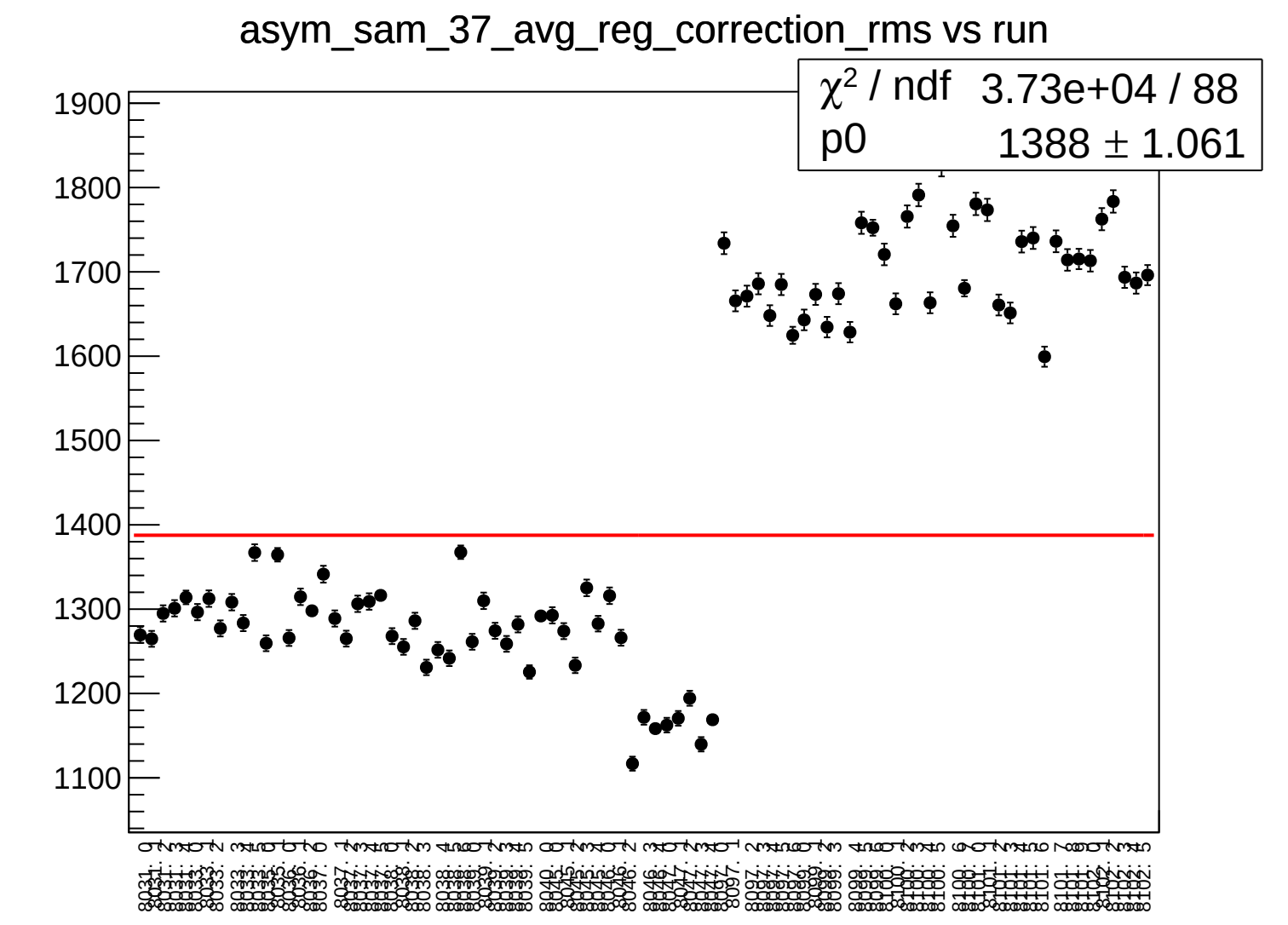

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
χ² / ndf 5.97e+05 / 88
p0 5.015e−11 ± 4.676e−14

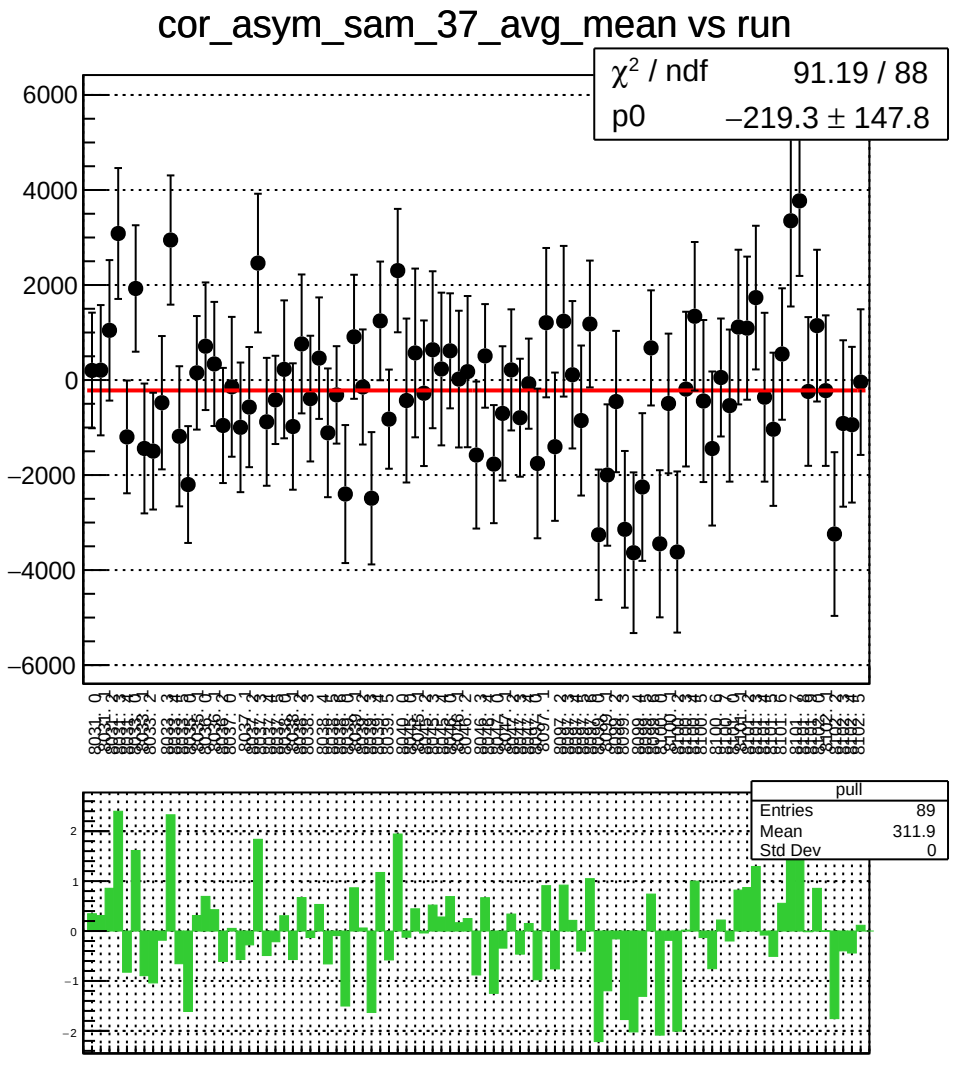

reg_asym_sam_37_avg_mean vs run
χ² / ndf 91.19 / 88
p0 −219.2 ± 147.8
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 311.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.00766
Std Dev 1.012
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

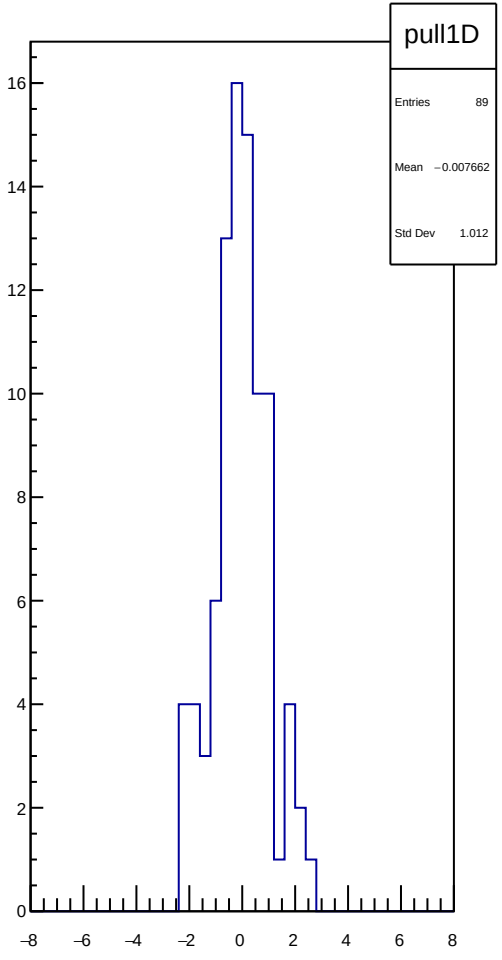

reg_asym_sam_37_avg_rms vs run
χ² / ndf 2.179e+04 / 88
p0 137.3 ± 0.1045
170
160
150
140
130
120
110

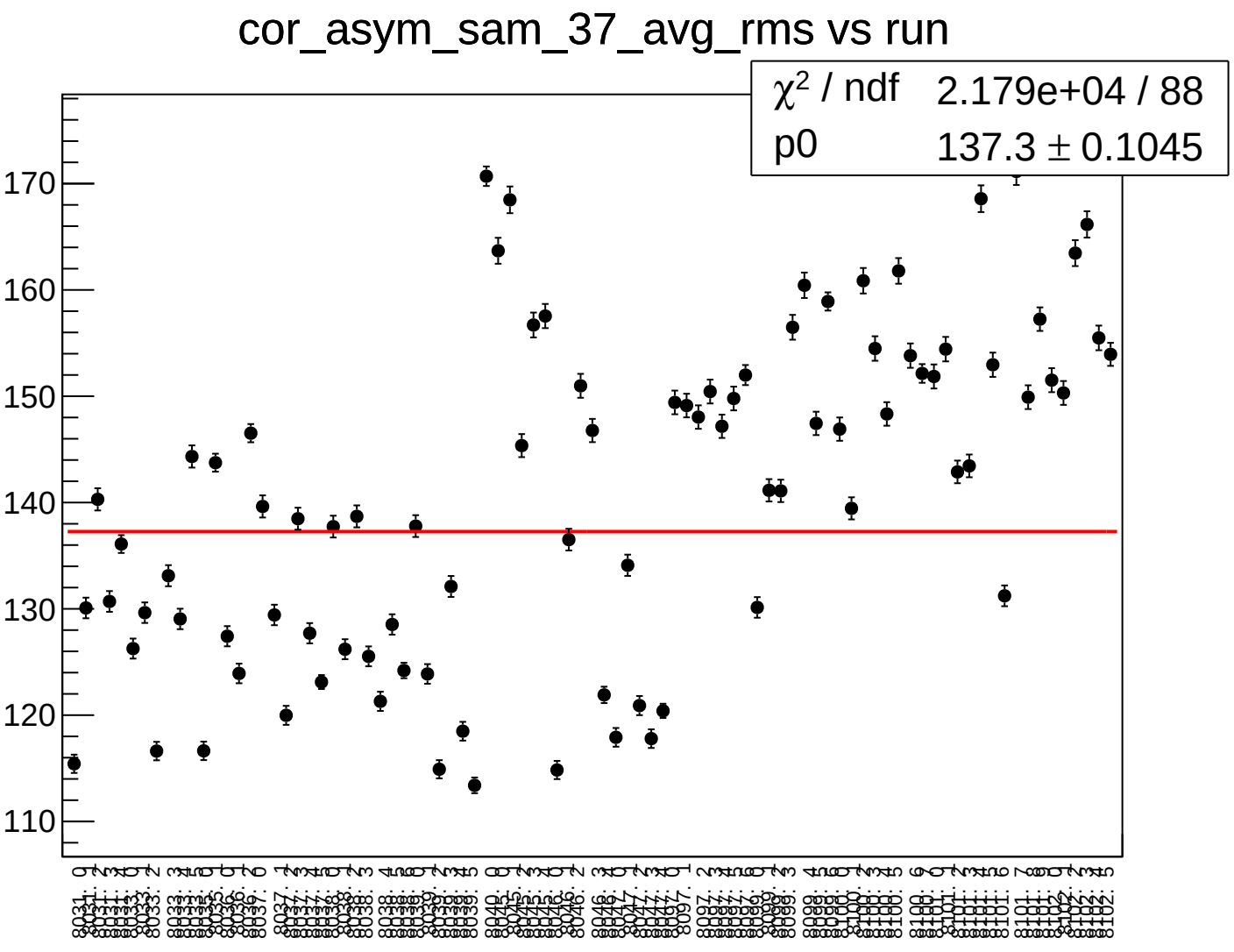

asym_sam_37_avg_reg_correction_mean vs run
χ² / ndf 78.25 / 88
p0 −1700 ± 1501
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 439
Std Dev 0
2
1
0
−1
−2
−3

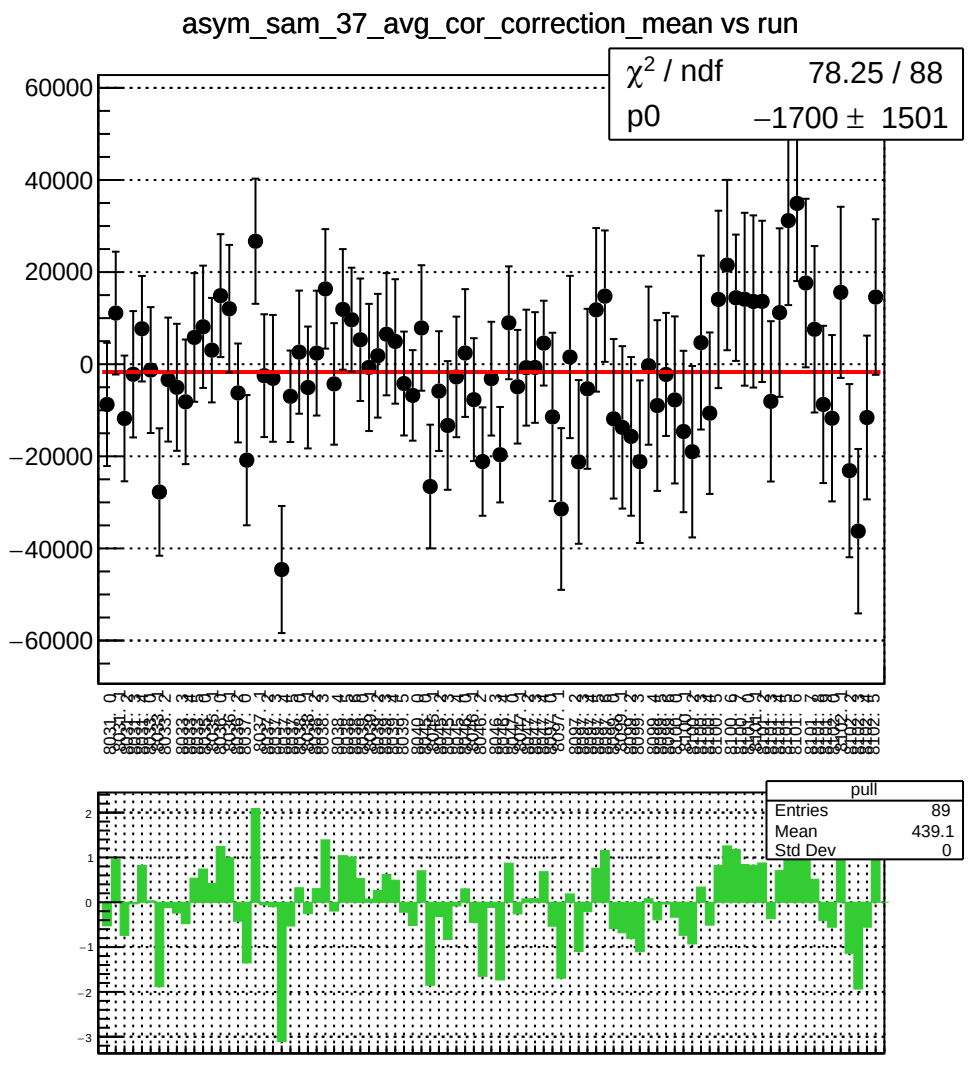

pull1D
Entries 89
Mean 0.003641
Std Dev 0.9376
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

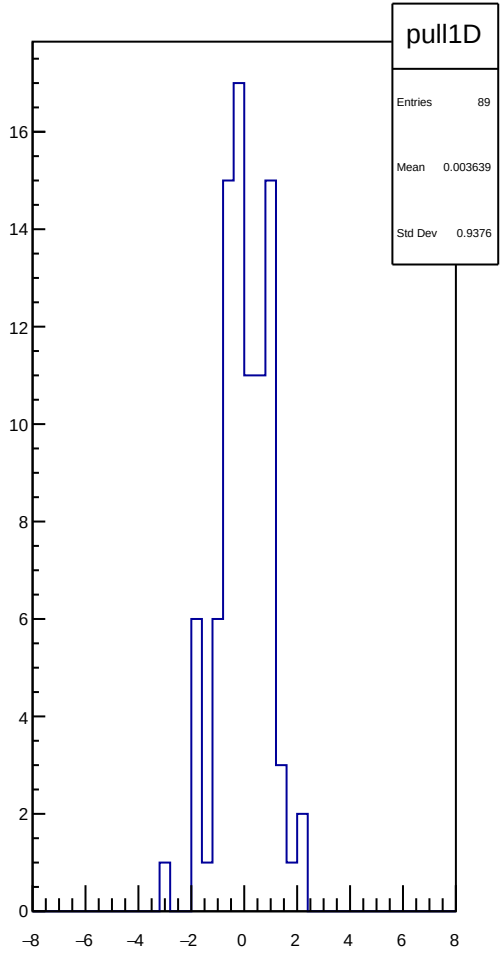

asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 3.73e+04 / 88
p0 1388 ± 1.061
1900
1800
1700
1600
1500
1400
1300
1200
1100

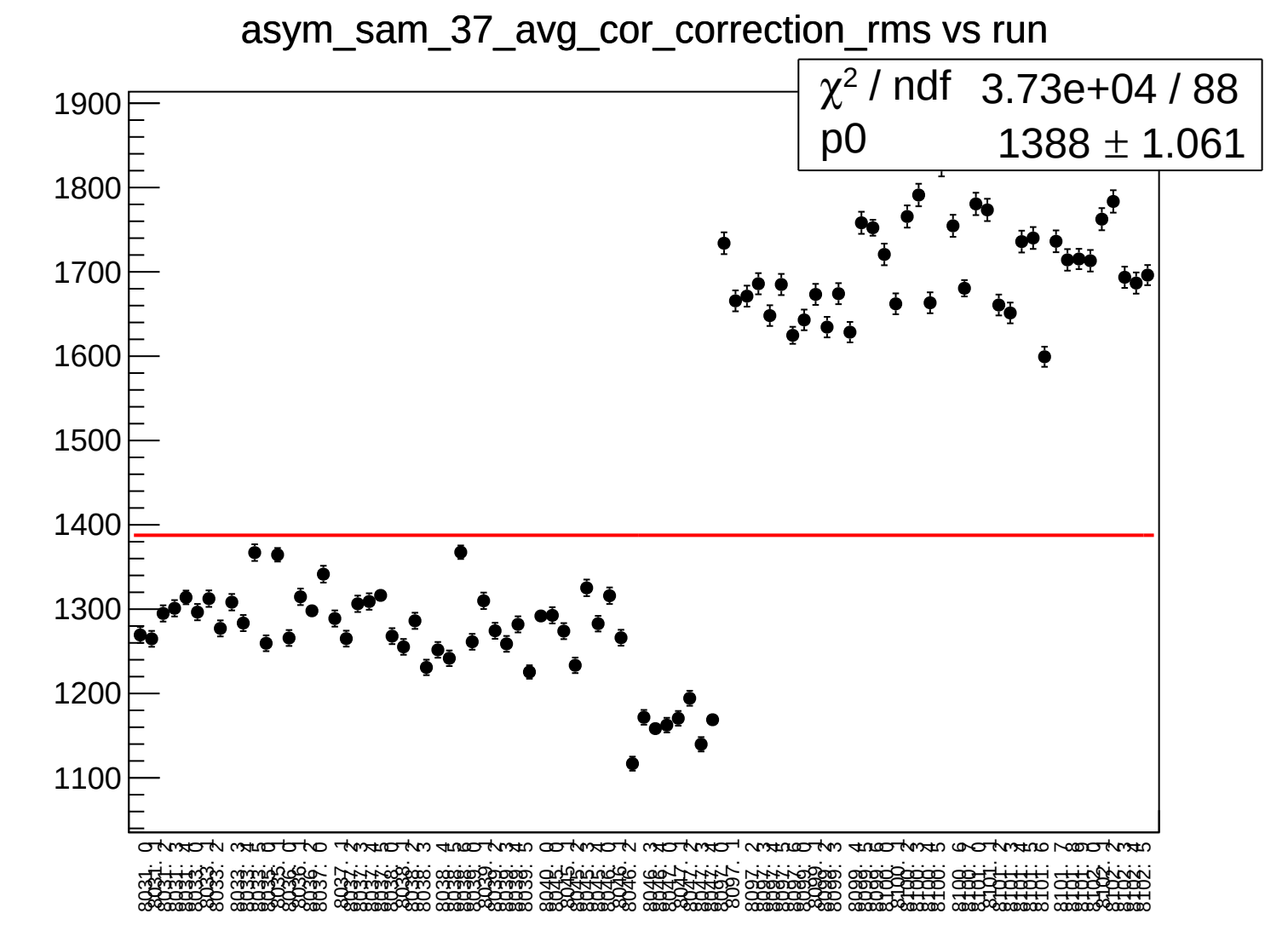

cor_asym_sam_37_avg_mean vs run
χ² / ndf 91.19 / 88
p0 −219.3 ± 147.8
pull
Entries 89
Mean 311.9
Std Dev 0

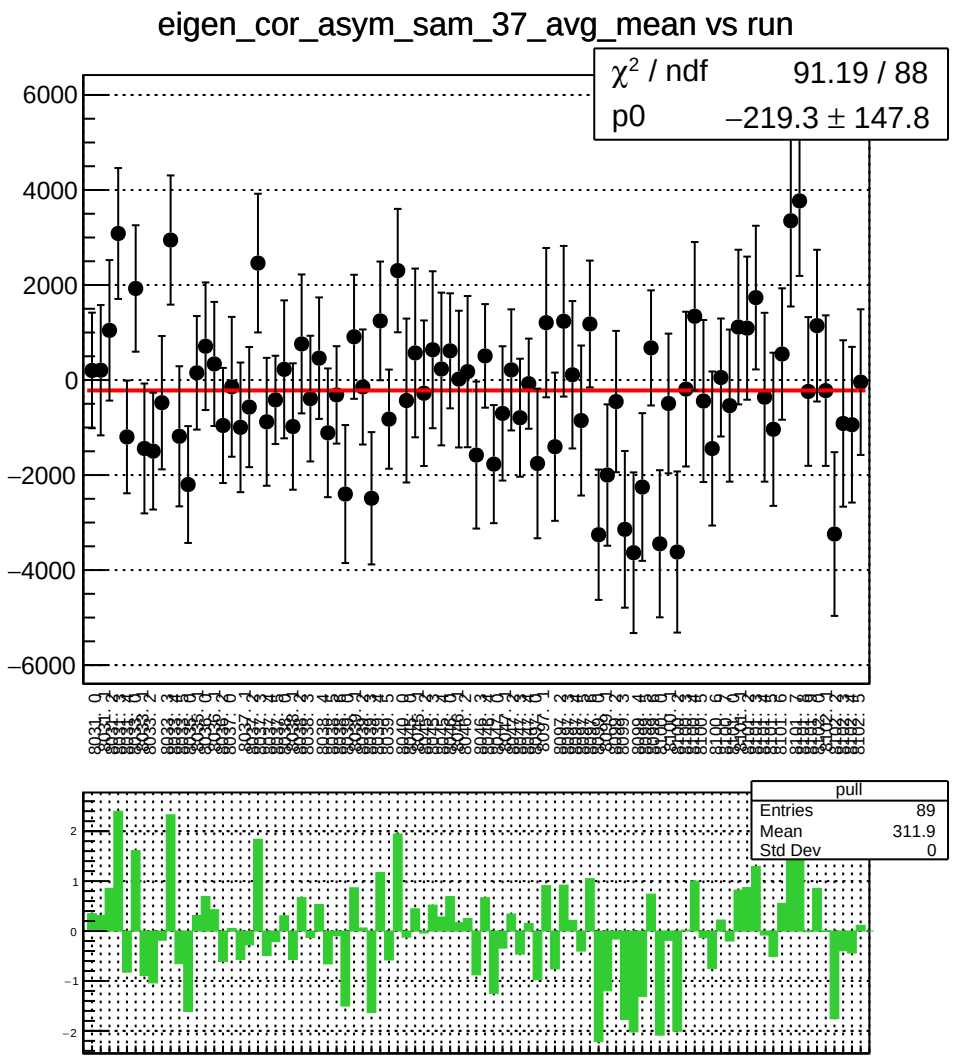

pull1D
Entries 89
Mean −0.007662
Std Dev 1.012

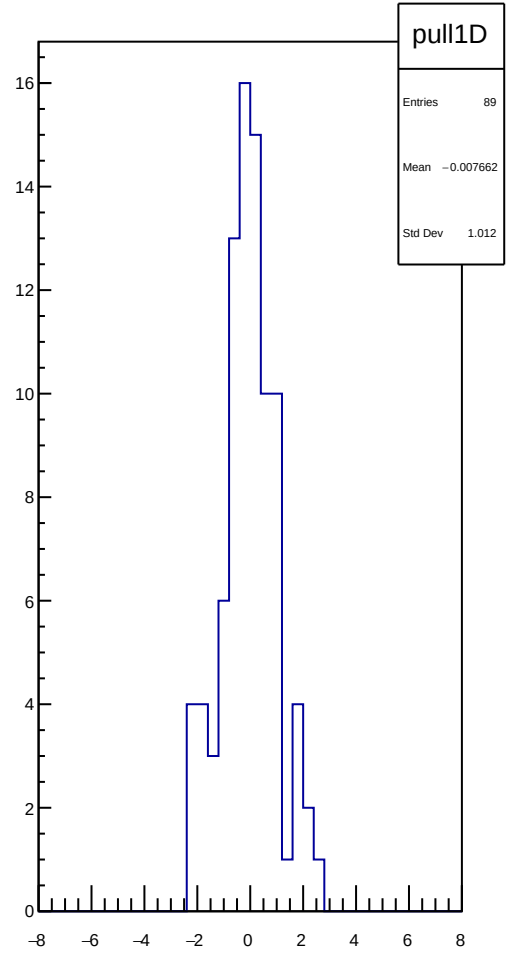

cor_asym_sam_37_avg_rms vs run
χ² / ndf 2.179e+04 / 88
p0 137.3 ± 0.1045
170
160
150
140
130
120
110

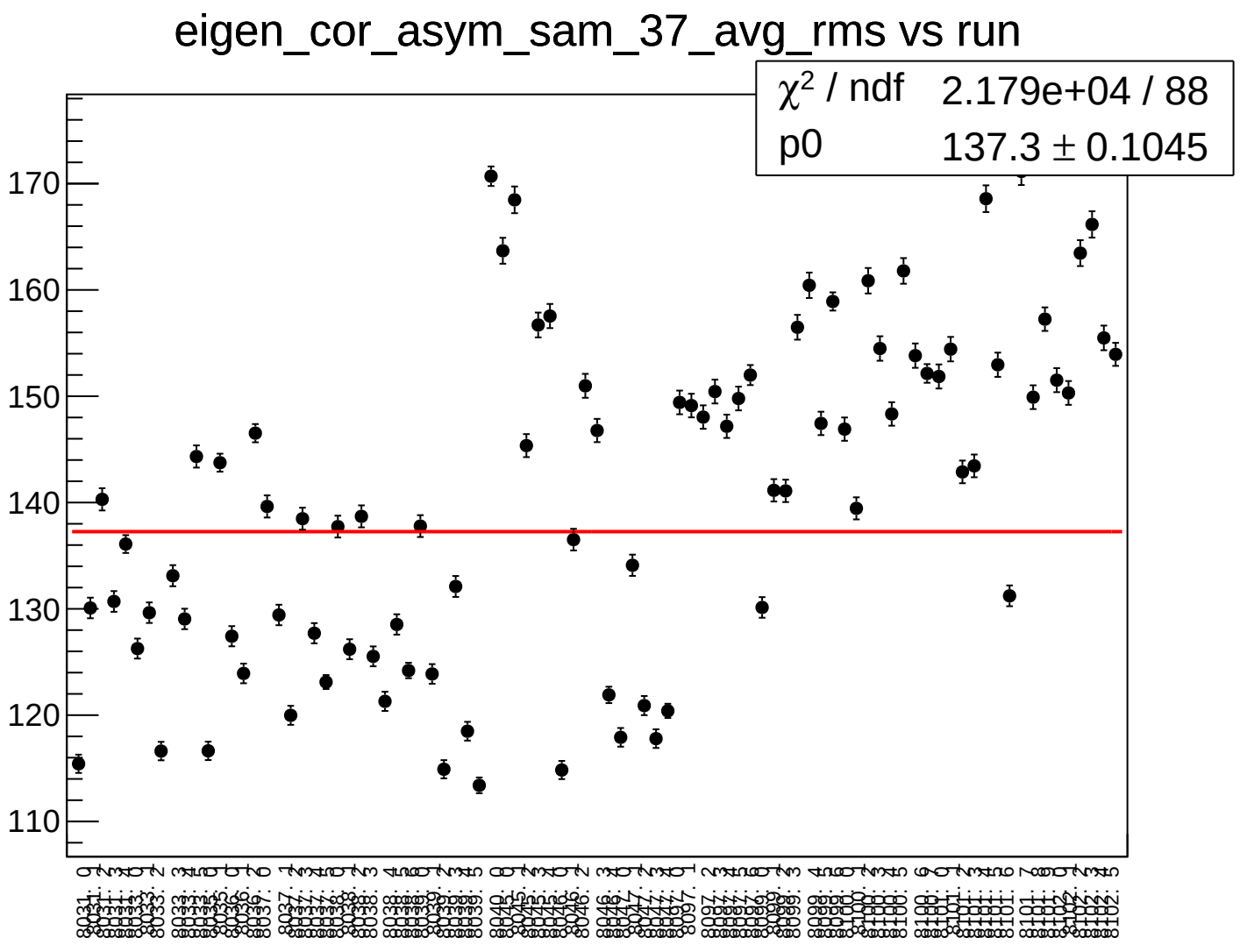

asym_sam_37_avg_cor_correction_mean vs run
χ² / ndf 78.25 / 88
p0 −1700 ± 1501
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 439.1
Std Dev 0
2
1
0
−1
−2
−3

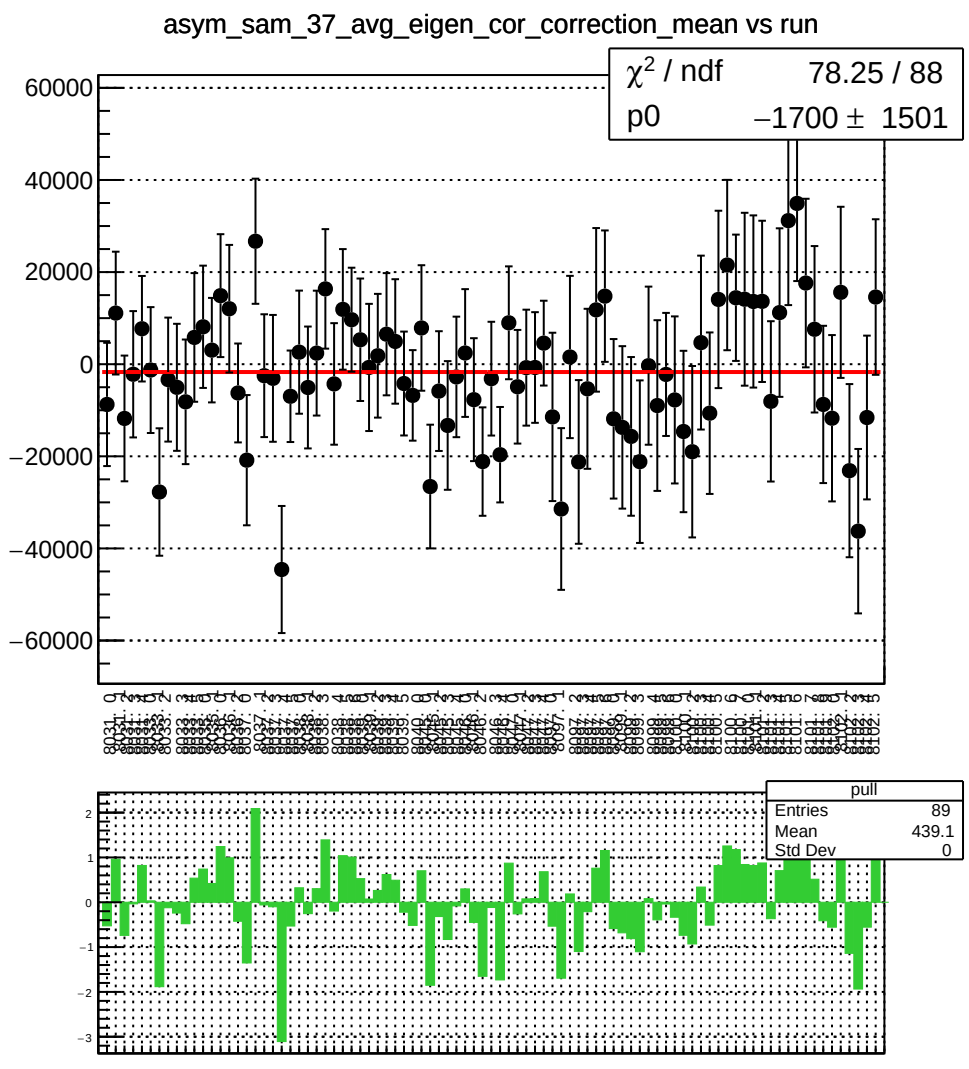

pull1D
Entries 89
Mean 0.003639
Std Dev 0.9376
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

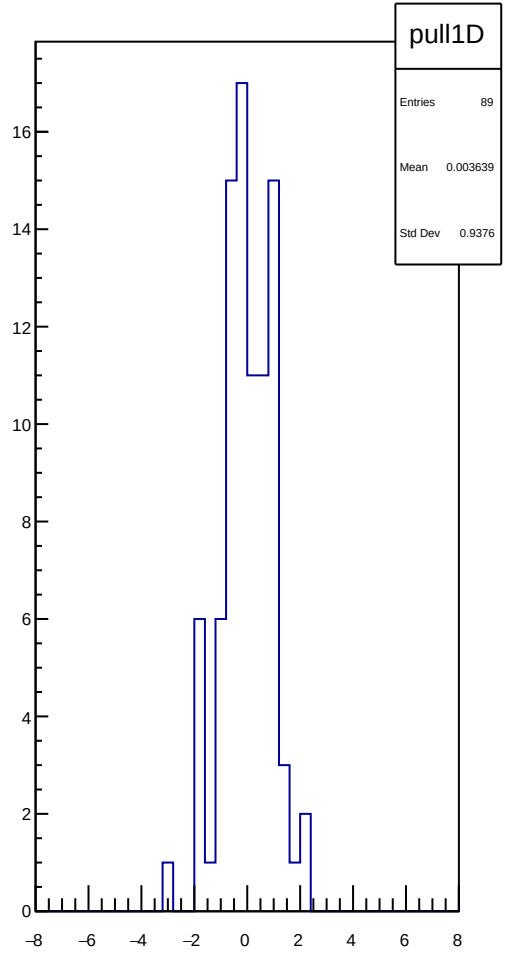

asym_sam_37_avg_cor_correction_rms vs run
χ² / ndf 3.73e+04 / 88
p0 1388 ± 1.061
1900
1800
1700
1600
1500
1400
1300
1200
1100

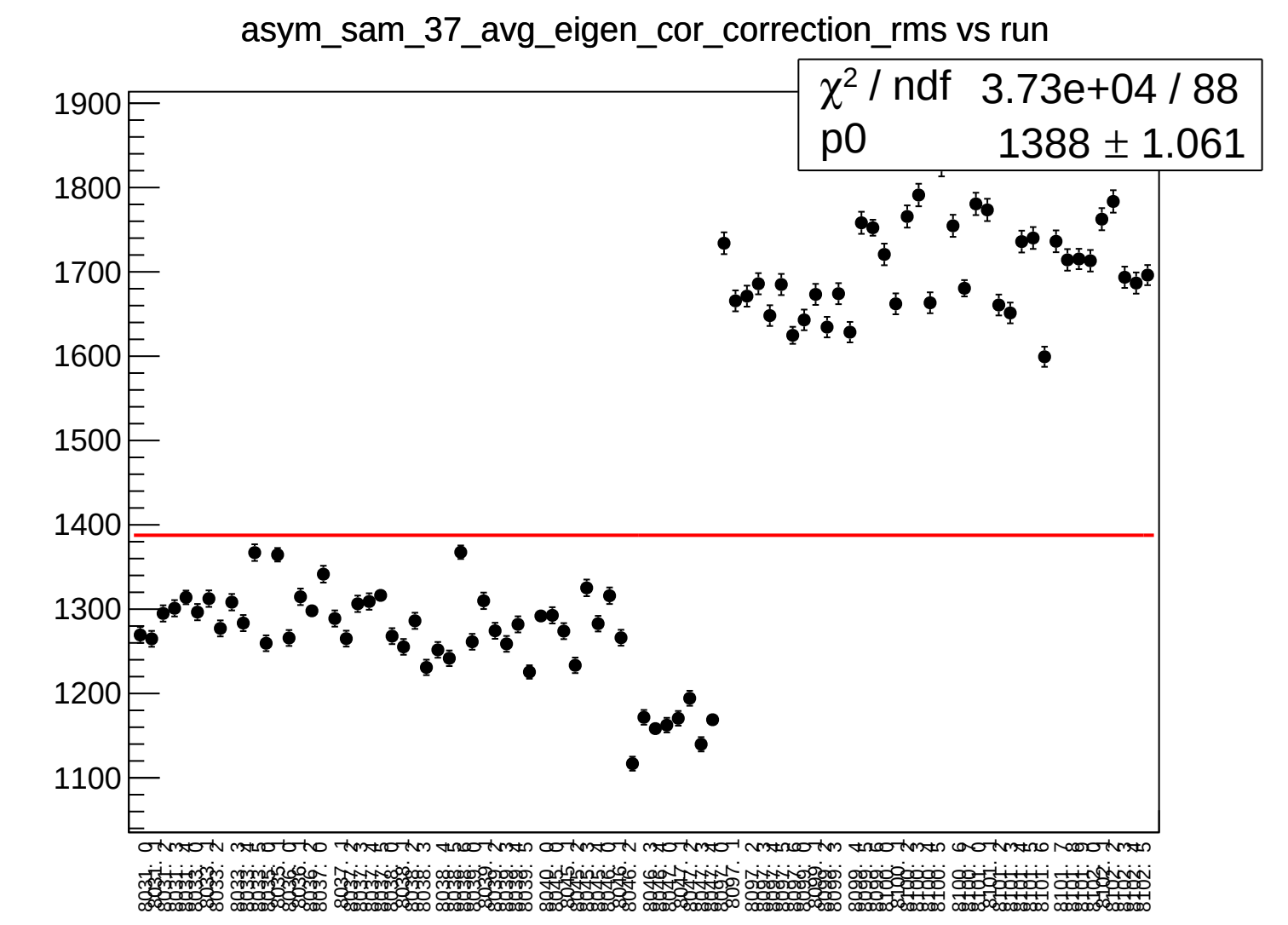

eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 91.19 / 88
p0 −219.3 ± 147.8
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 311.9
Std Dev 0
2
1
0
−1
−2

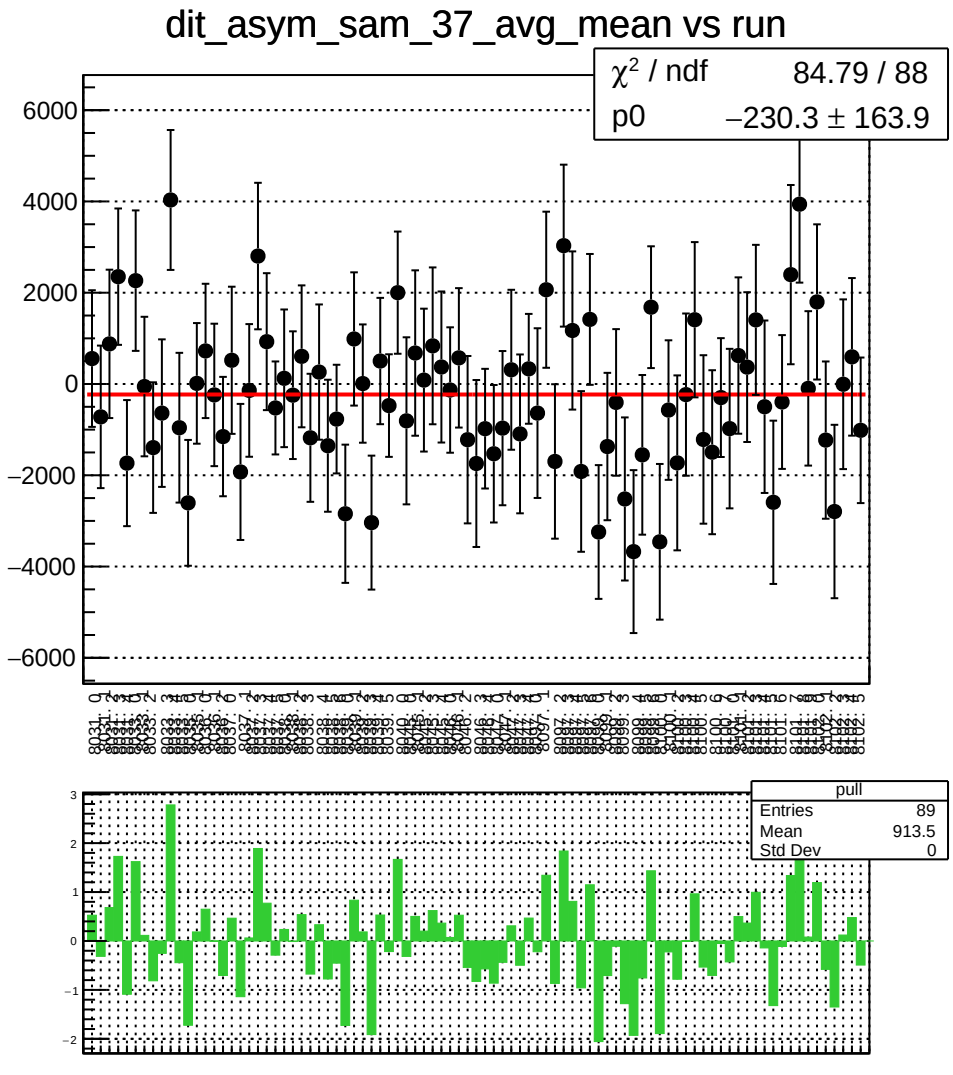

pull1D
Entries 89
Mean −0.007662
Std Dev 1.012
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

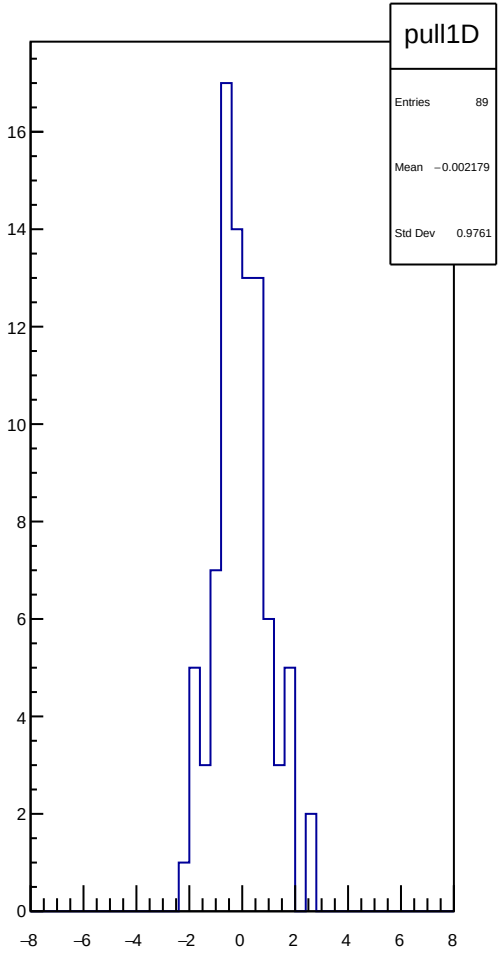

eigen_cor_asym_sam_37_avg_rms vs run
χ² / ndf 2.179e+04 / 88
p0 137.3 ± 0.1045
170
160
150
140
130
120
110

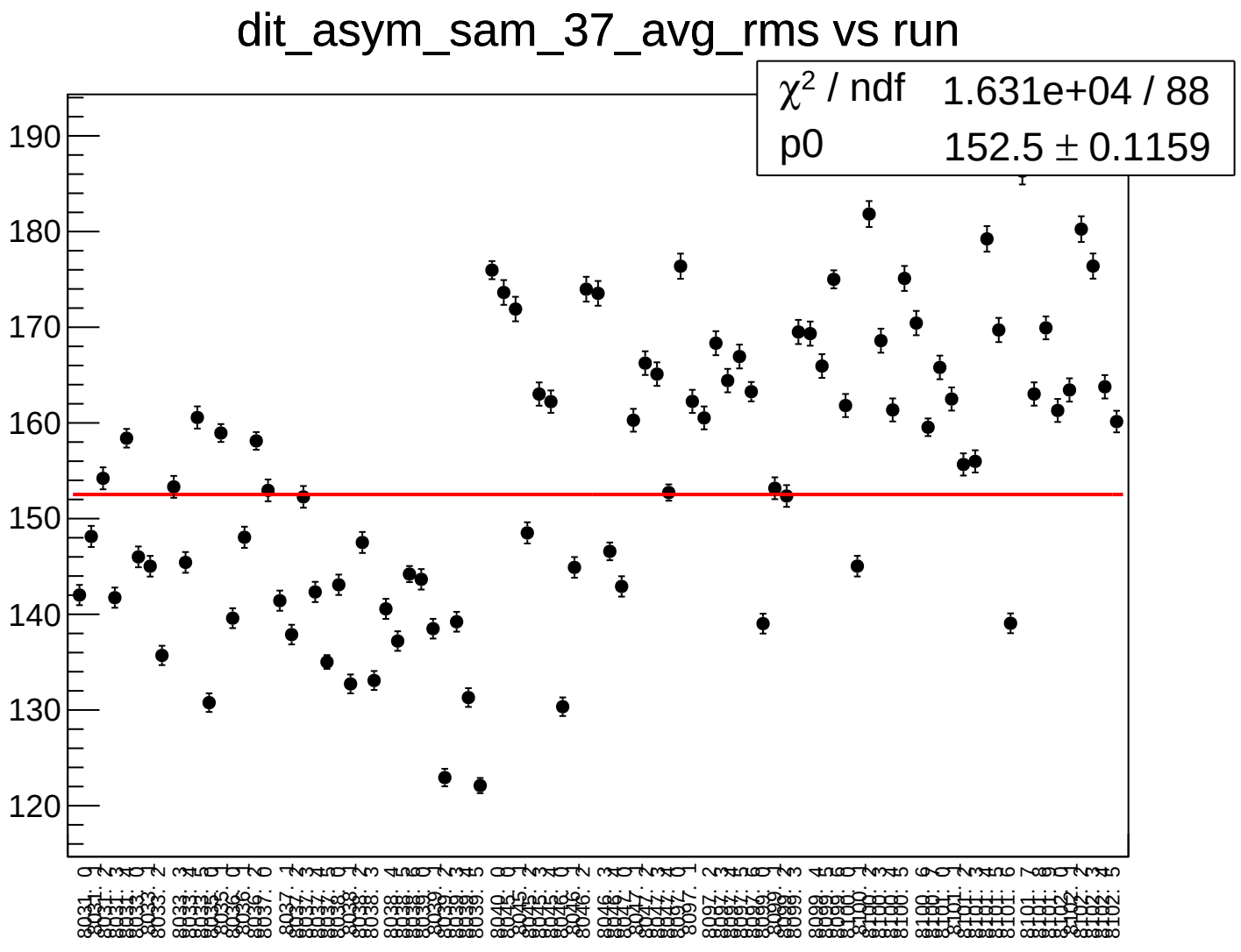

asym_sam_37_avg_eigen_cor_correction_mean vs run
χ² / ndf 78.25 / 88
p0 −1700 ± 1501
pull
Entries 89
Mean 439.1
Std Dev 0

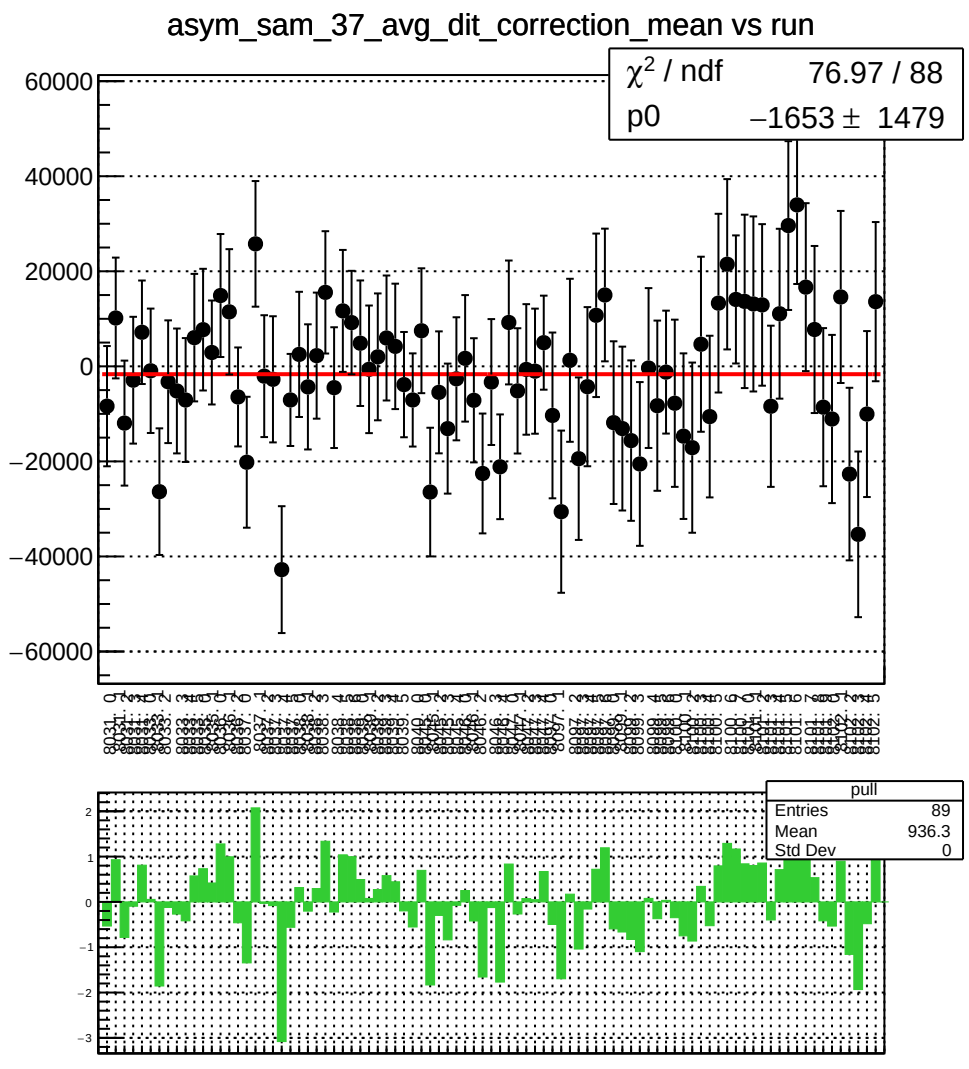

pull1D
Entries 89
Mean 0.003639
Std Dev 0.9376

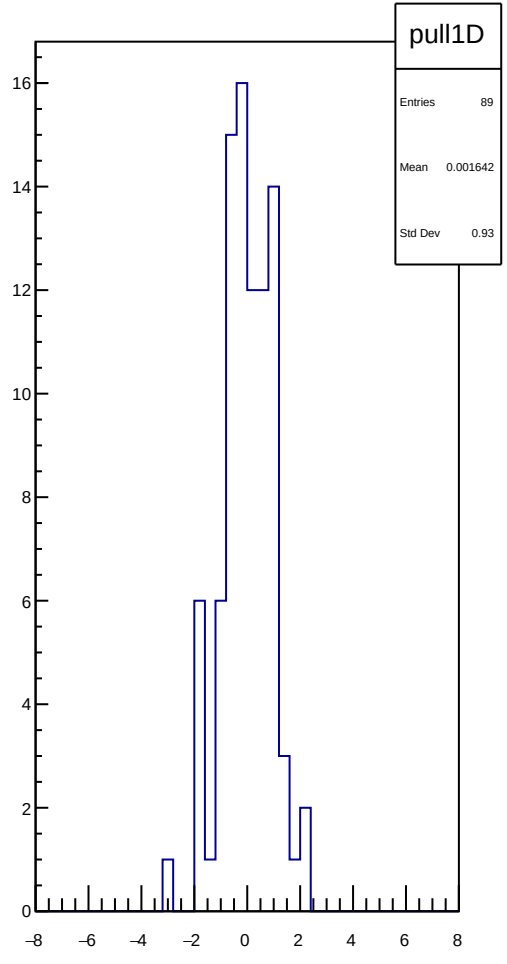

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.73e+04 / 88
p0 1388 ± 1.061
1900
1800
1700
1600
1500
1400
1300
1200
1100

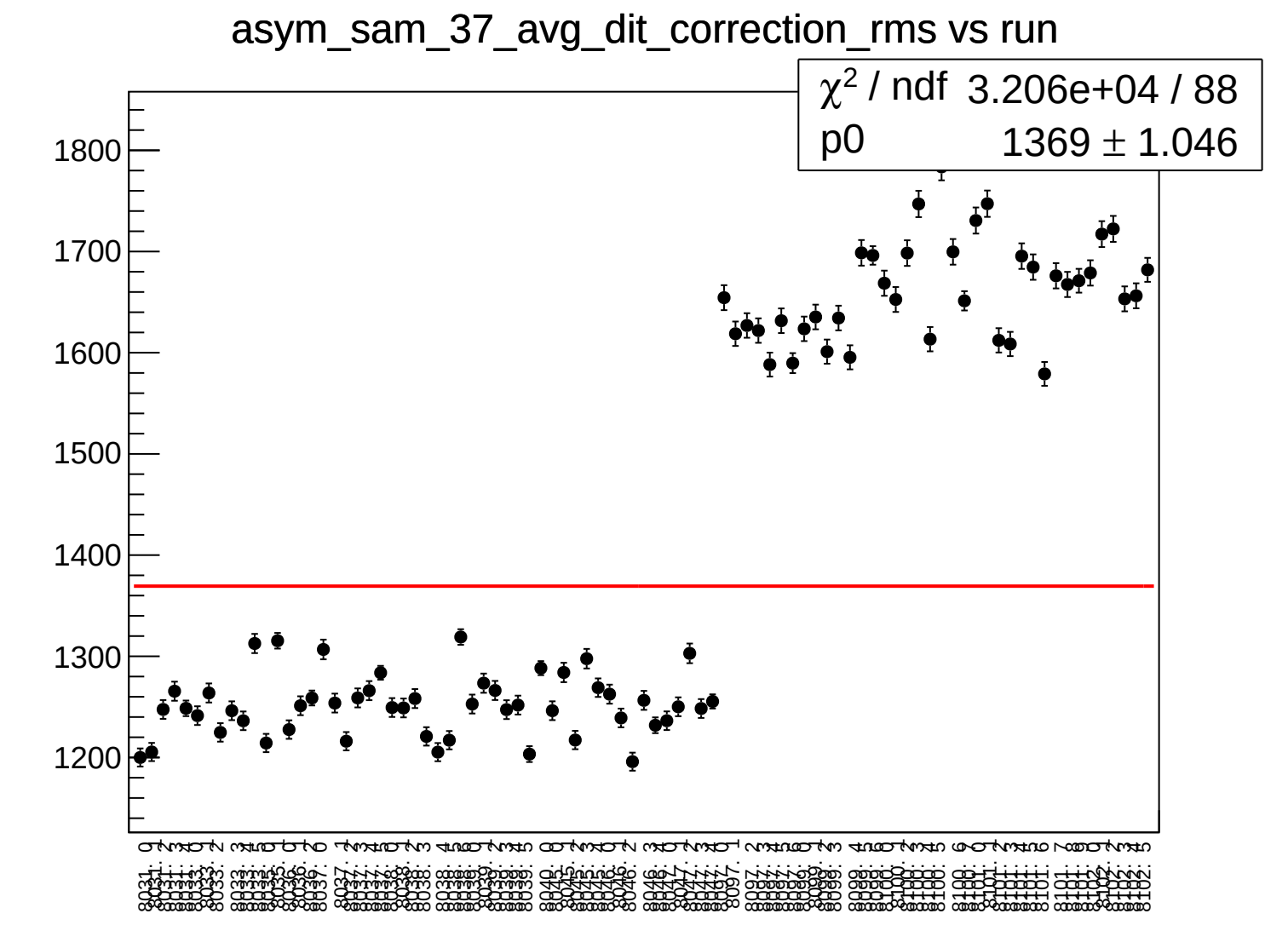

dit_asym_sam_37_avg_mean vs run
χ² / ndf 84.79 / 88
p0 −230.3 ± 163.9
pull
Entries 89
Mean 913.5
Std Dev 0

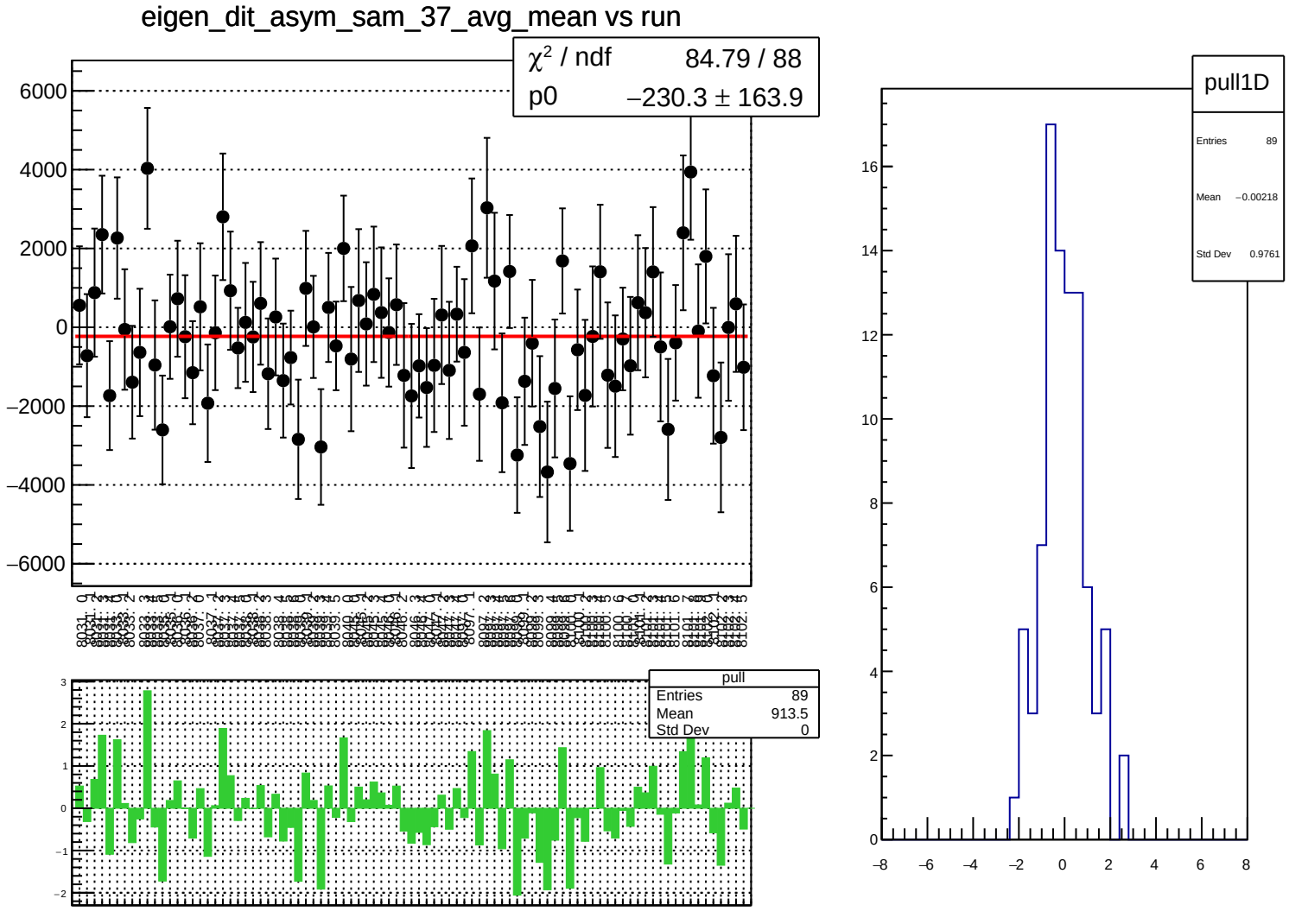

pull1D
Entries 89
Mean −0.002179
Std Dev 0.9761

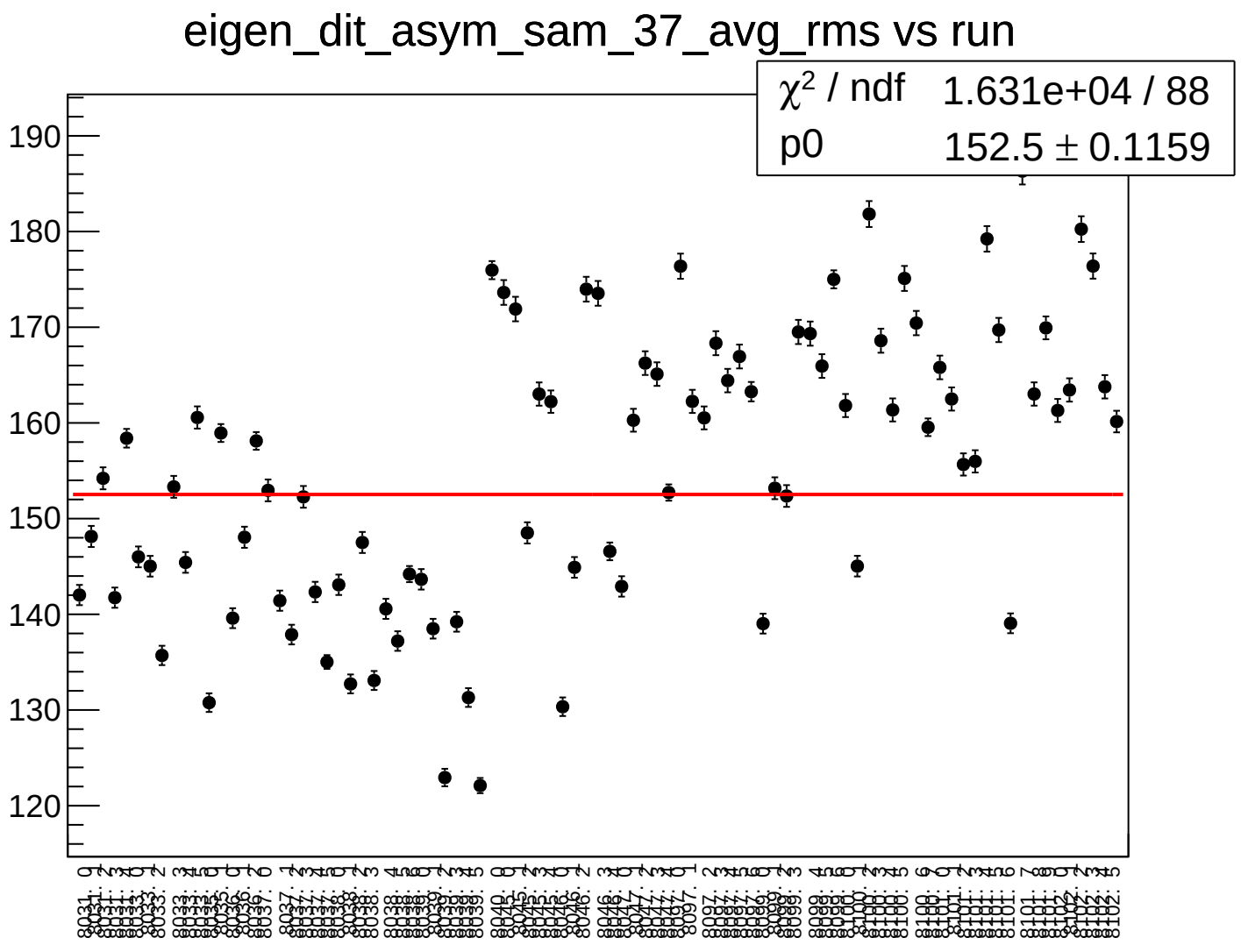

dit_asym_sam_37_avg_rms vs run
χ² / ndf 1.631e+04 / 88
p0 152.5 ± 0.1159
190
180
170
160
150
140
130
120

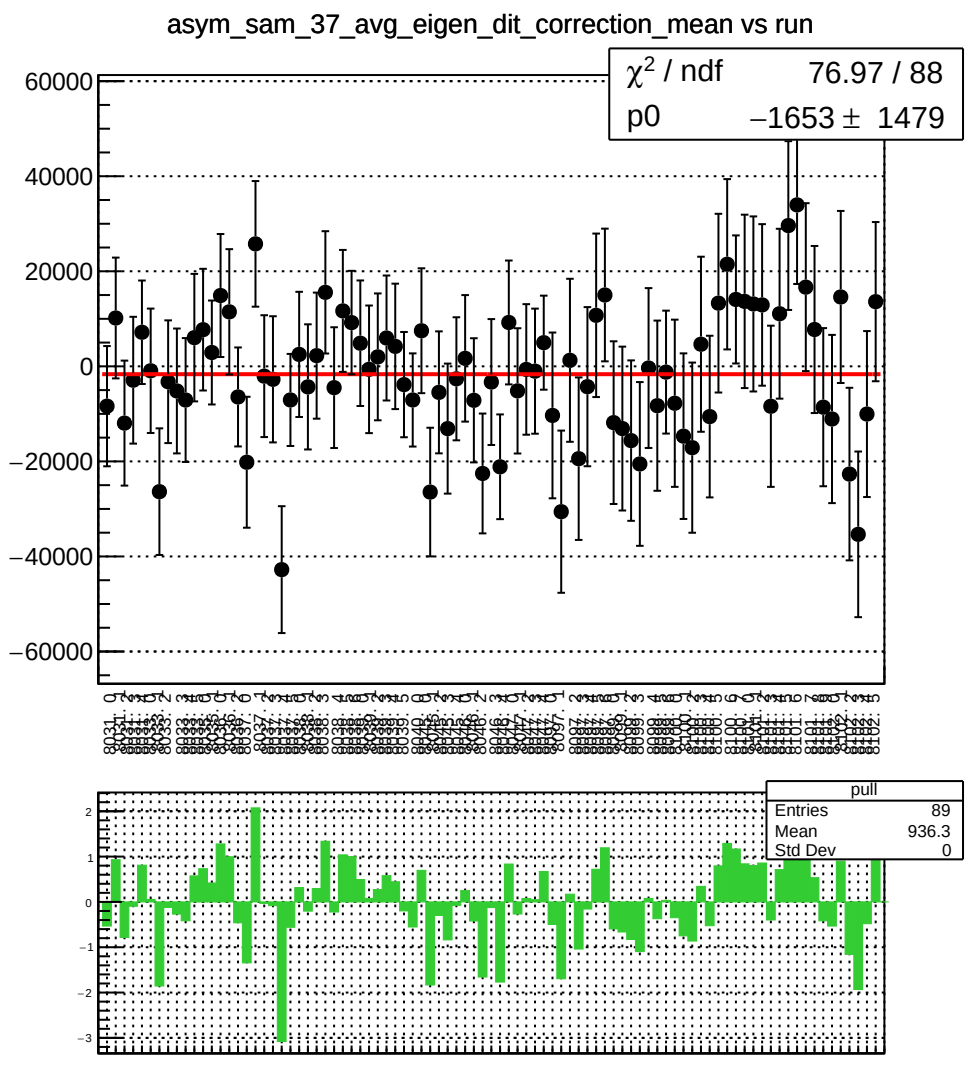

asym_sam_37_avg_dit_correction_mean vs run
χ² / ndf 76.97 / 88
p0 −1653 ± 1479
pull
Entries 89
Mean 936.3
Std Dev 0

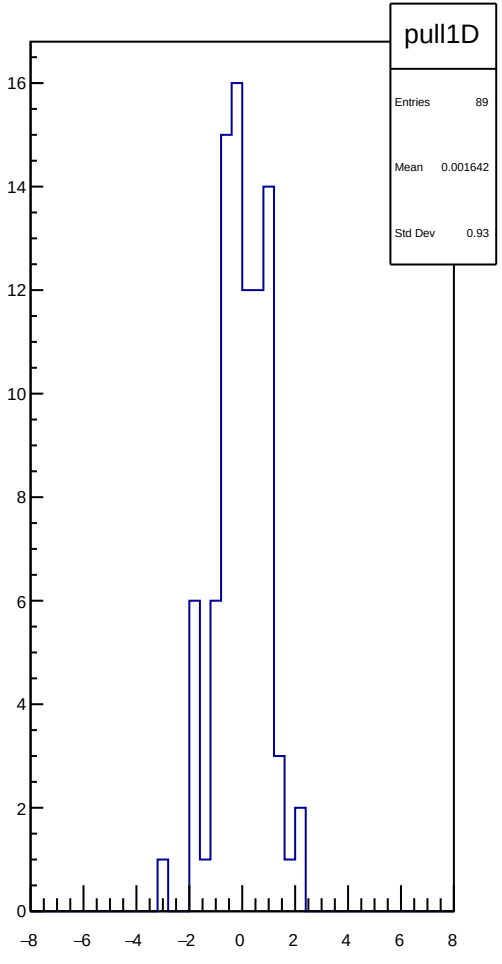

pull1D
Entries 89
Mean 0.001642
Std Dev 0.93

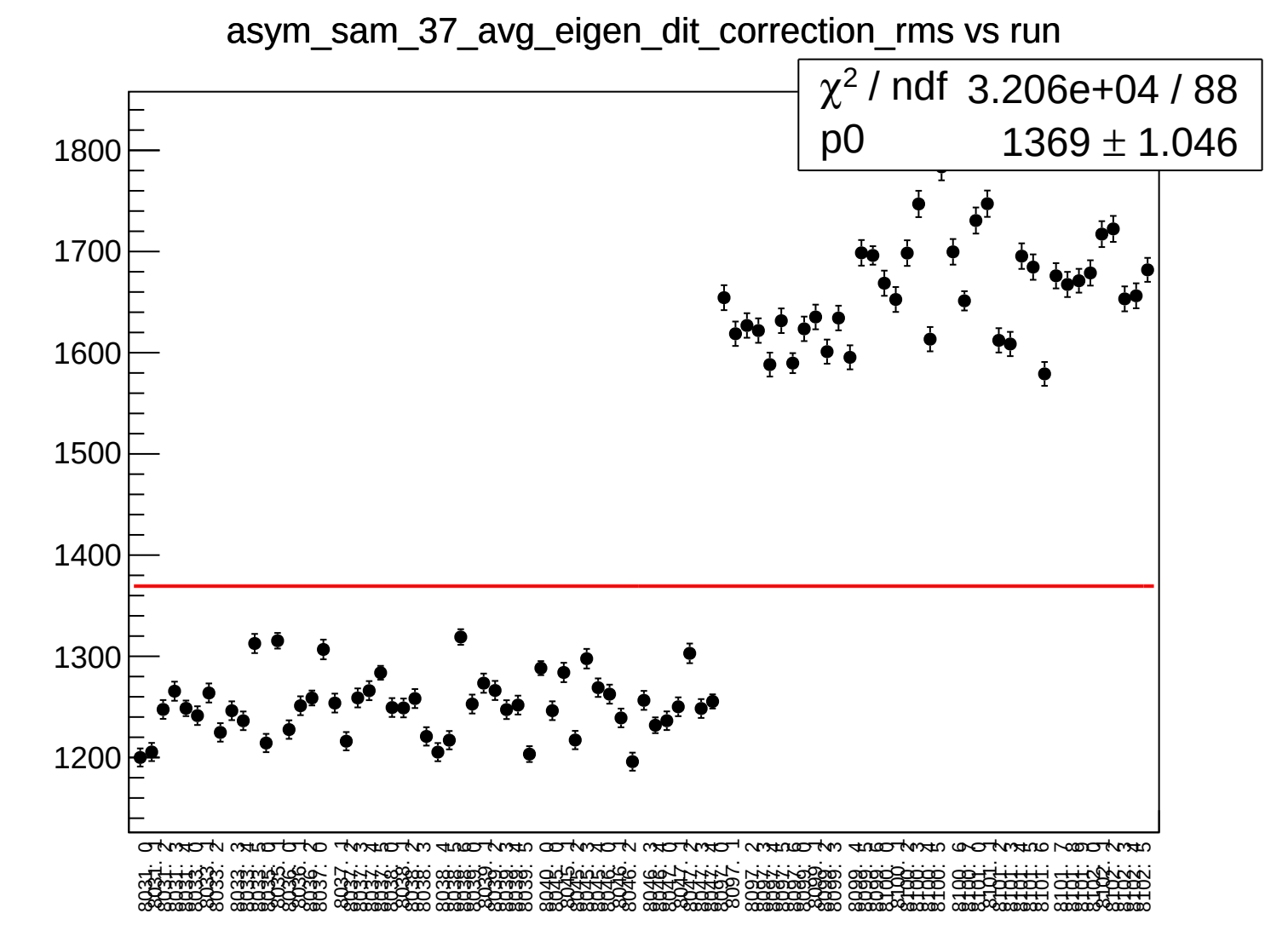

asym_sam_37_avg_dit_correction_rms vs run
χ² / ndf 3.206e+04 / 88
p0 1369 ± 1.046
1800
1700
1600
1500
1400
1300
1200

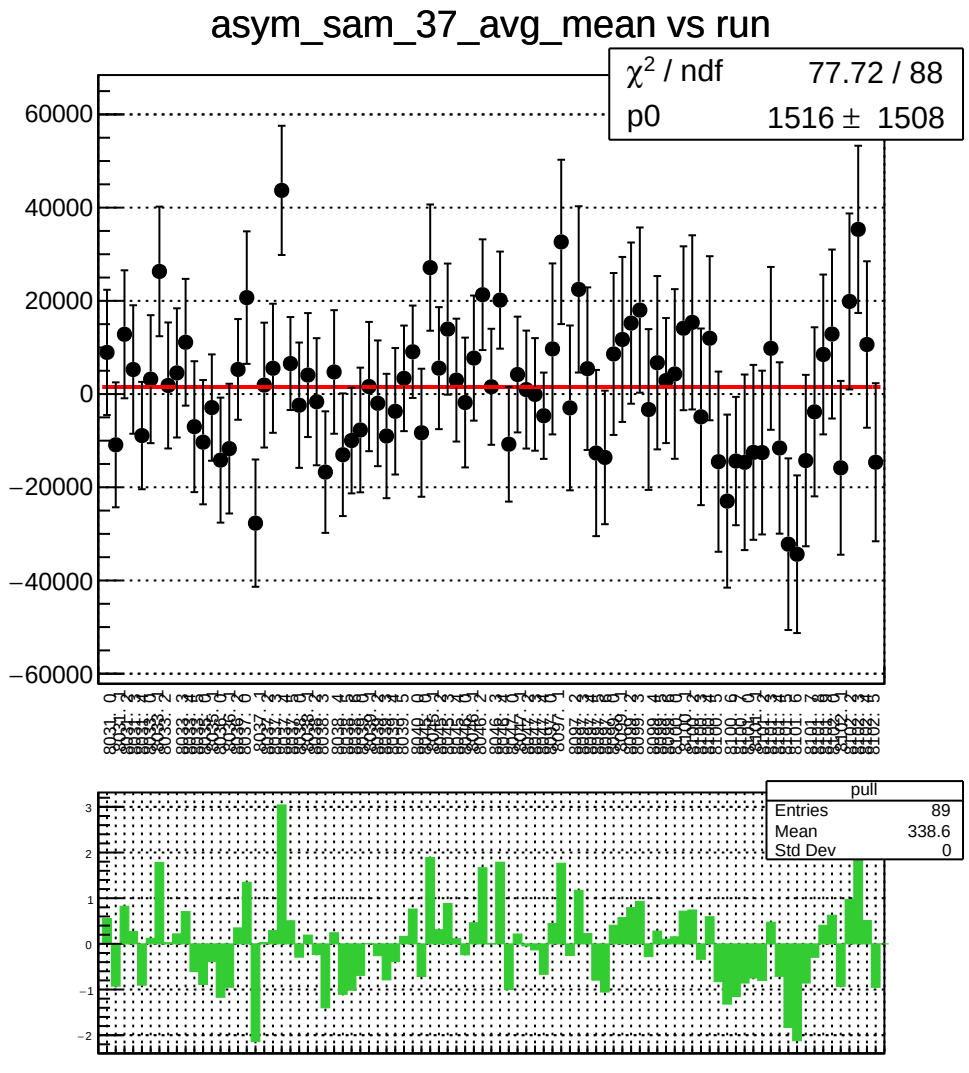

eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 84.79 / 88
p0 −230.3 ± 163.9
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 913.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.00218
Std Dev 0.9761
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

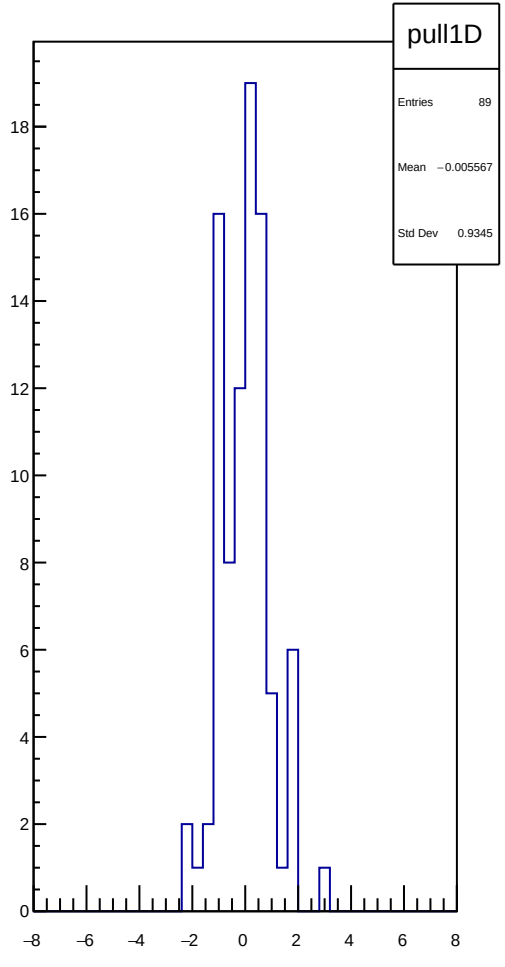

eigen_dit_asym_sam_37_avg_rms vs run
χ² / ndf 1.631e+04 / 88
p0 152.5 ± 0.1159
190
180
170
160
150
140
130
120

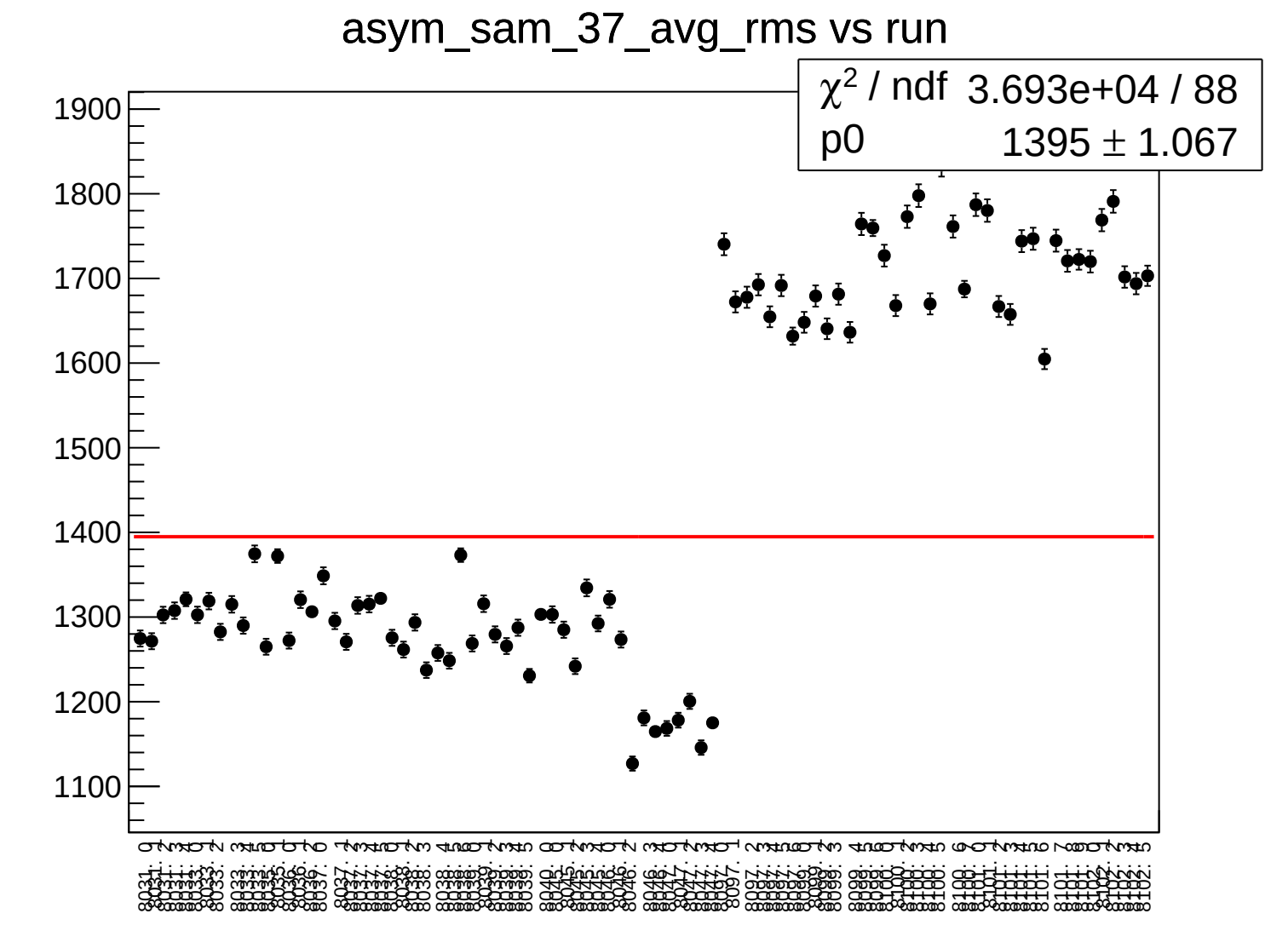

asym_sam_37_avg_eigen_dit_correction_mean vs run
χ² / ndf 76.97 / 88
p0 −1653 ± 1479
pull
Entries 89
Mean 936.3
Std Dev 0

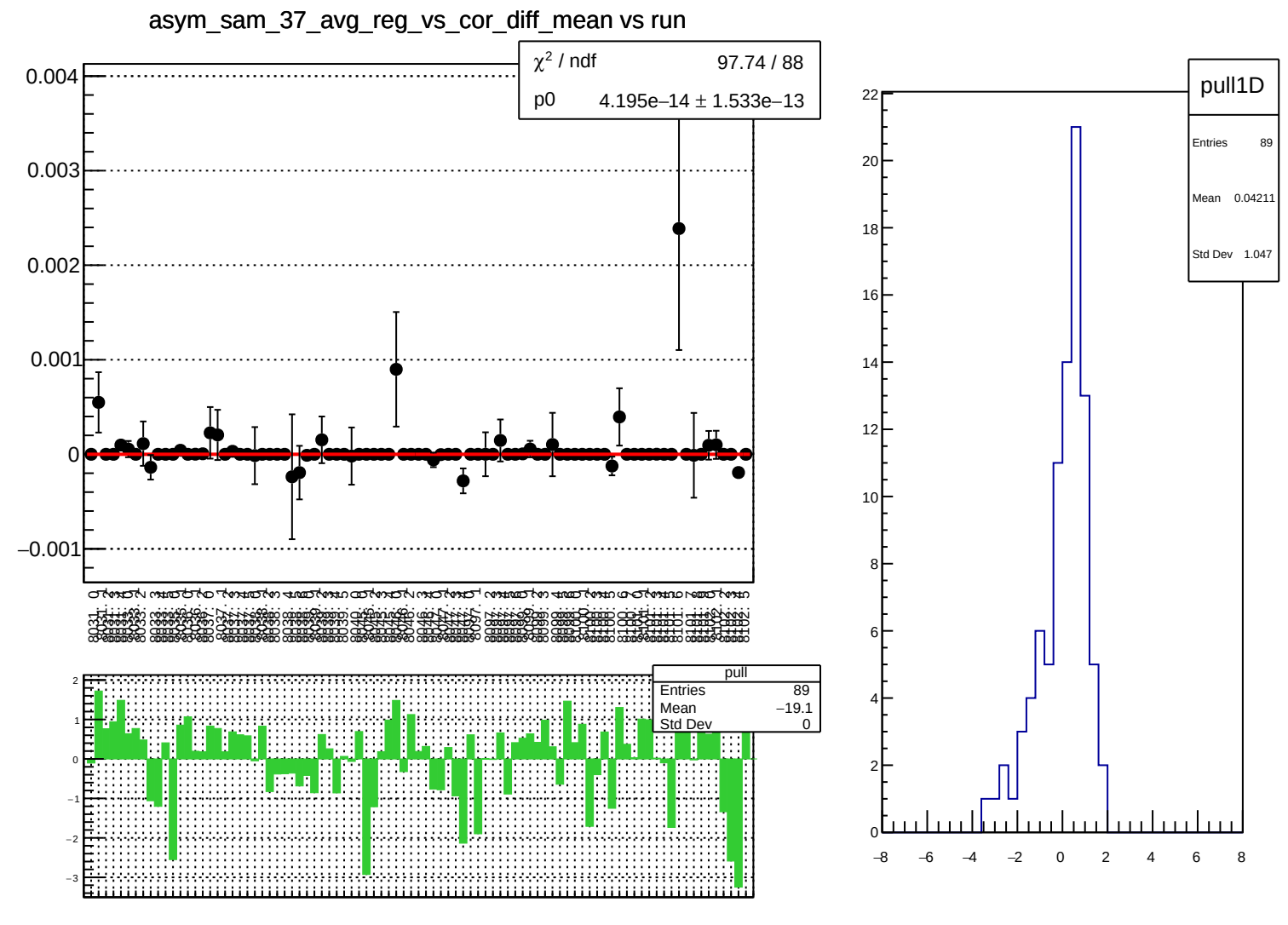

pull1D
Entries 89
Mean 0.001642
Std Dev 0.93

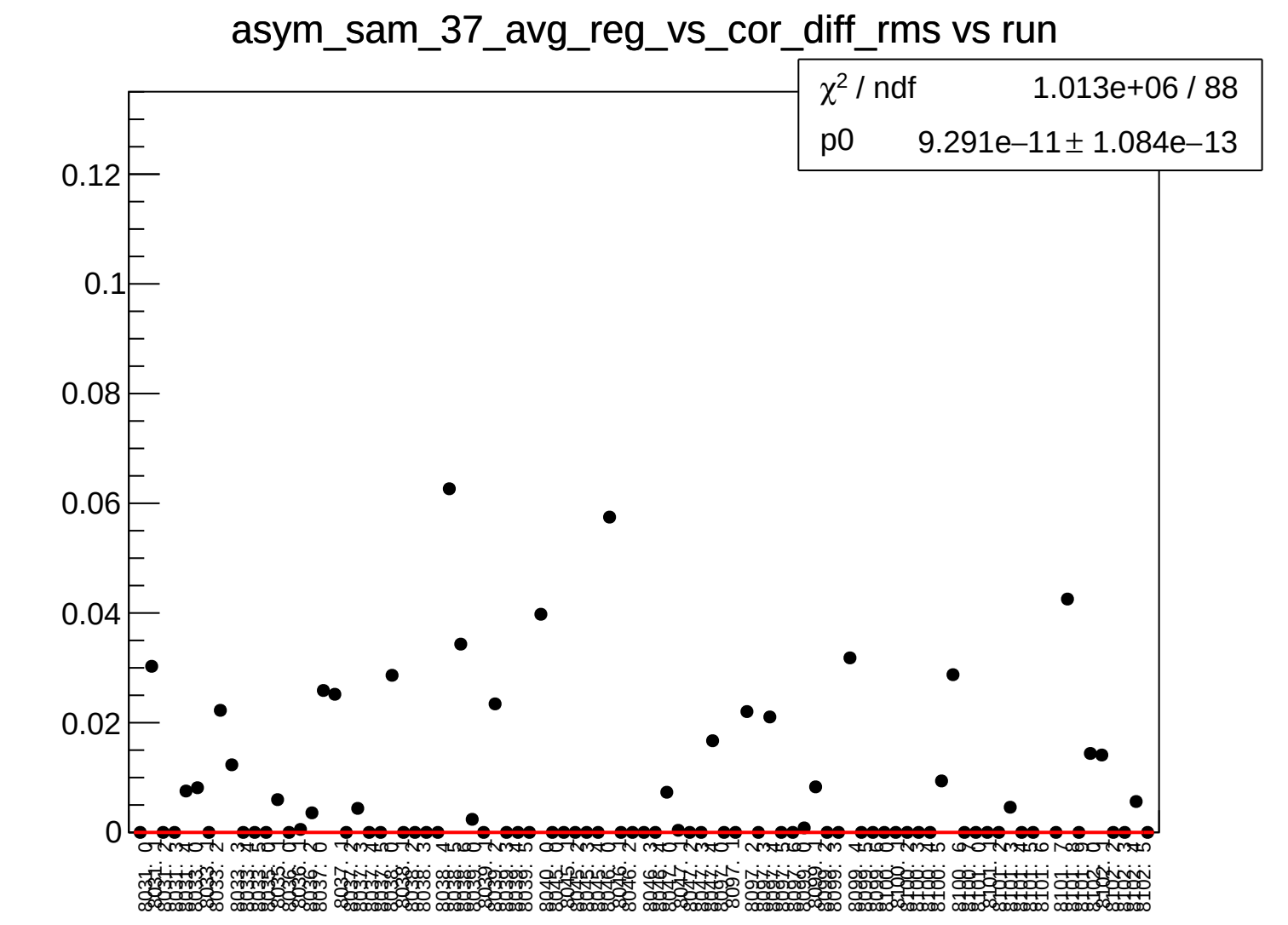

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.206e+04 / 88
p0 1369 ± 1.046
1800
1700
1600
1500
1400
1300
1200

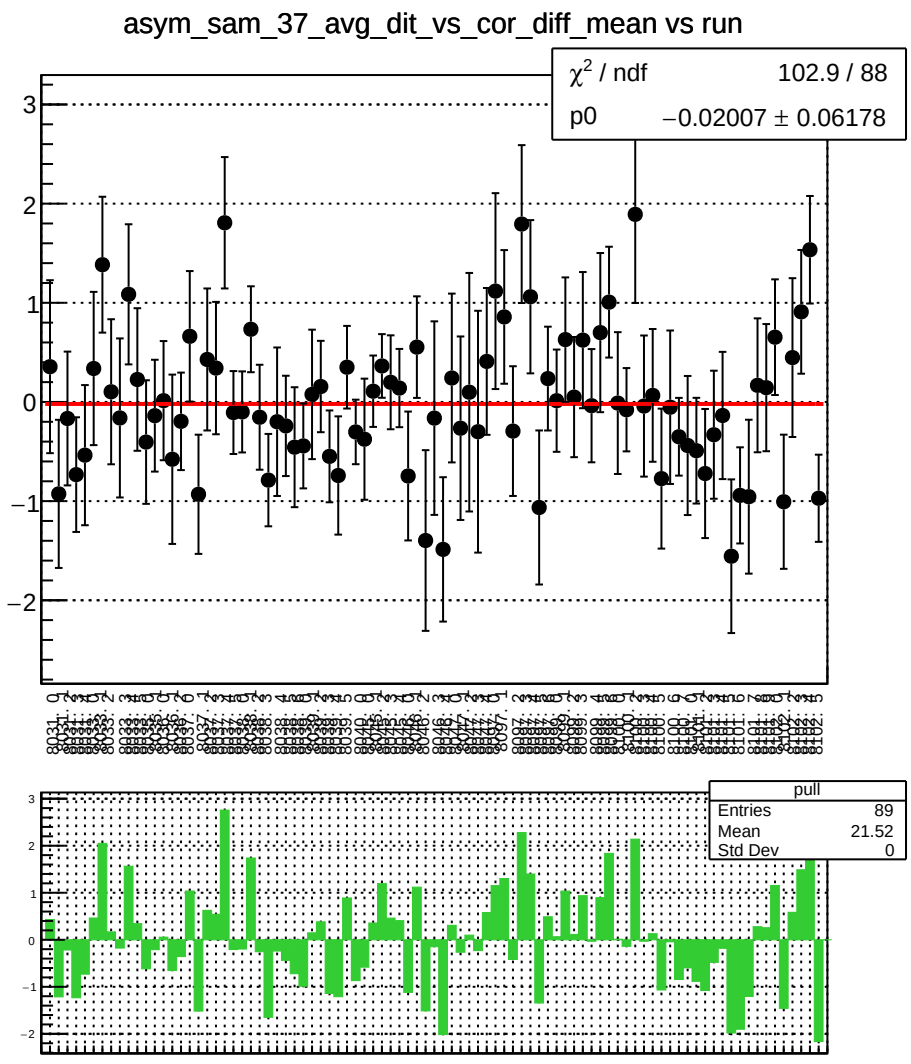

asym_sam_37_avg_mean vs run
χ² / ndf 77.72 / 88
p0 1516 ± 1508
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 338.6
Std Dev 0
3
2
1
0
−1
−2

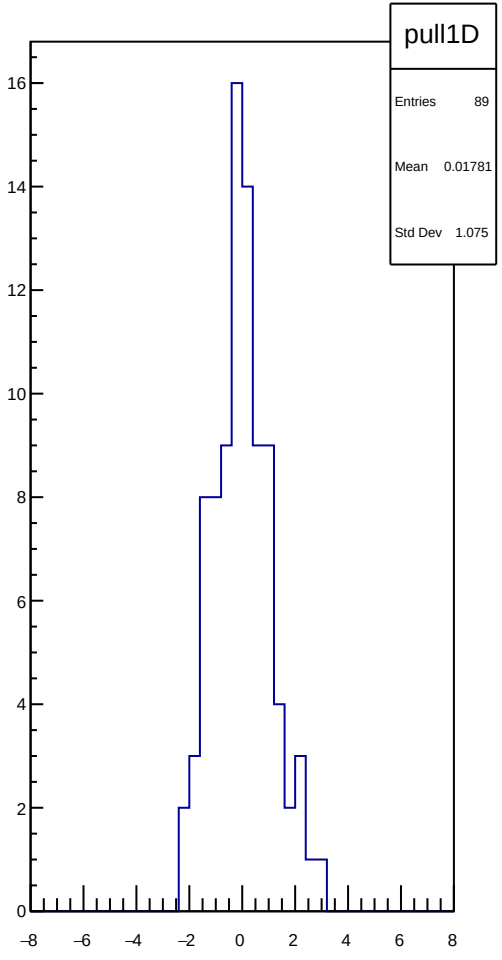

pull1D
Entries 89
Mean −0.005567
Std Dev 0.9345
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

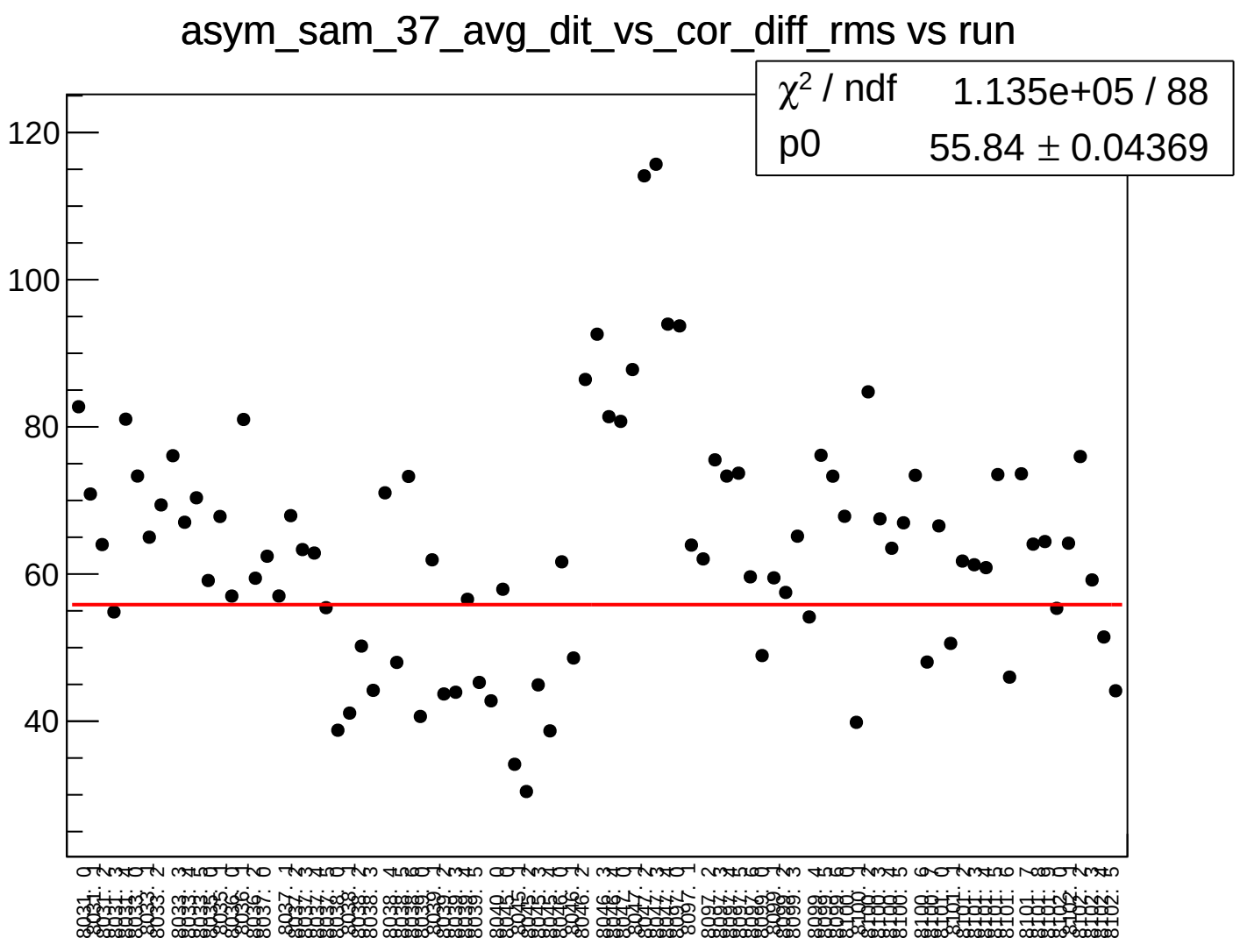

asym_sam_37_avg_rms vs run
χ² / ndf 3.693e+04 / 88
p0 1395 ± 1.067
1900
1800
1700
1600
1500
1400
1300
1200
1100

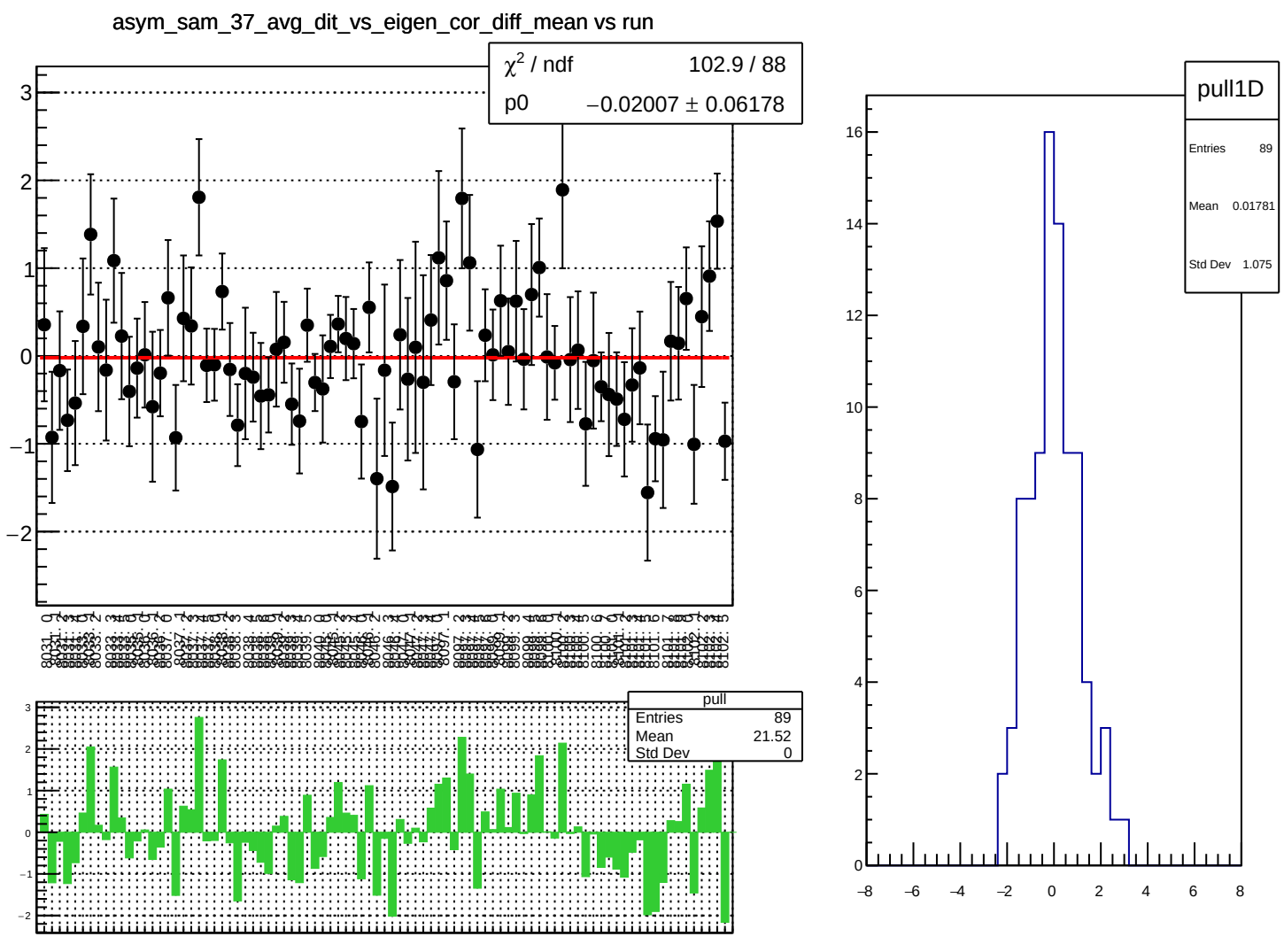

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 97.74 / 88
p0 4.195e−14 ± 1.533e−13
0.004
0.003
0.002
0.001
0
−0.001
pull
Entries 89
Mean −19.1
Std Dev 0
pull1D
Entries 89
Mean 0.04211
Std Dev 1.047

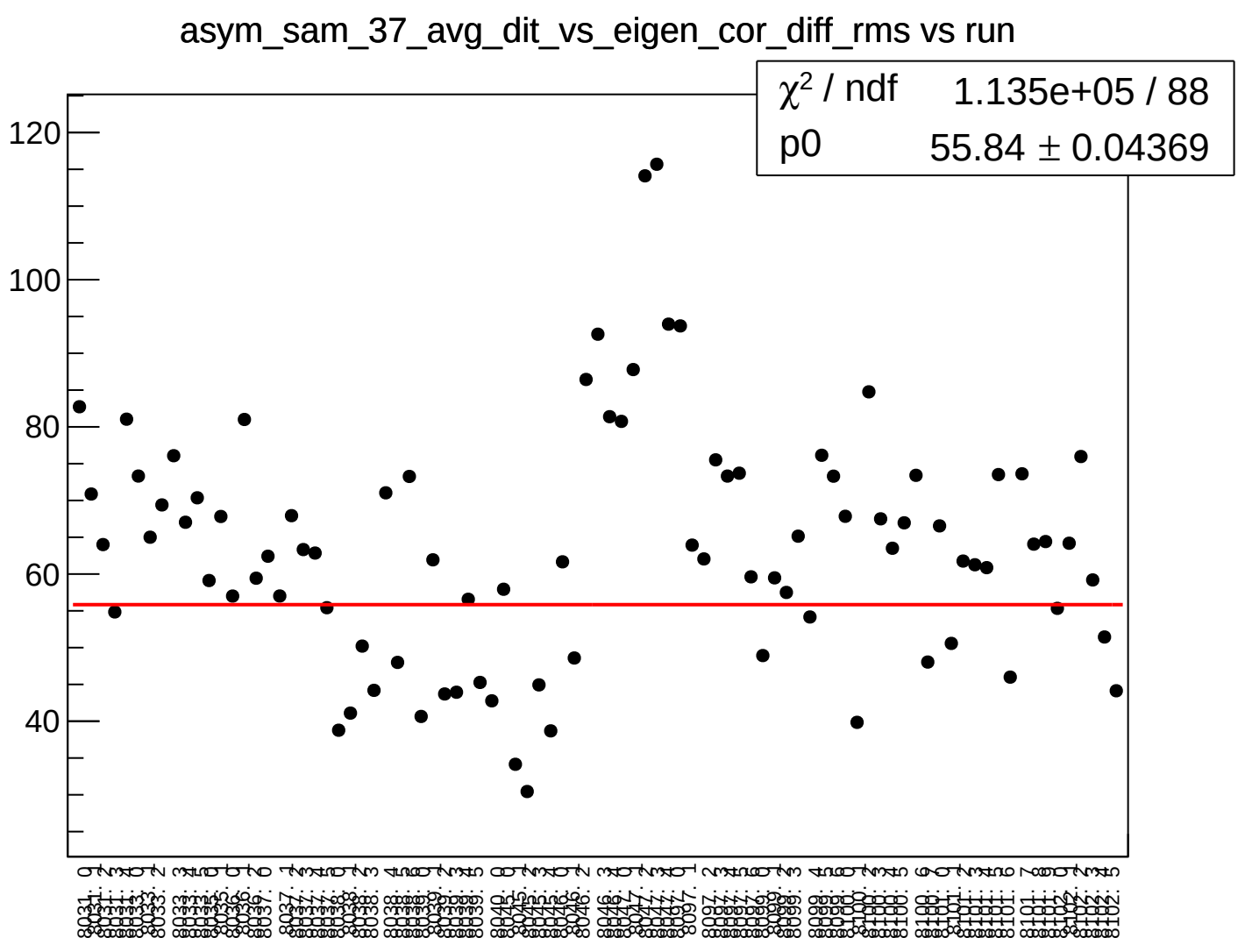

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.013e+06 / 88
p0 9.291e−11 ± 1.084e−13
0.12
0.1
0.08
0.06
0.04
0.02
0

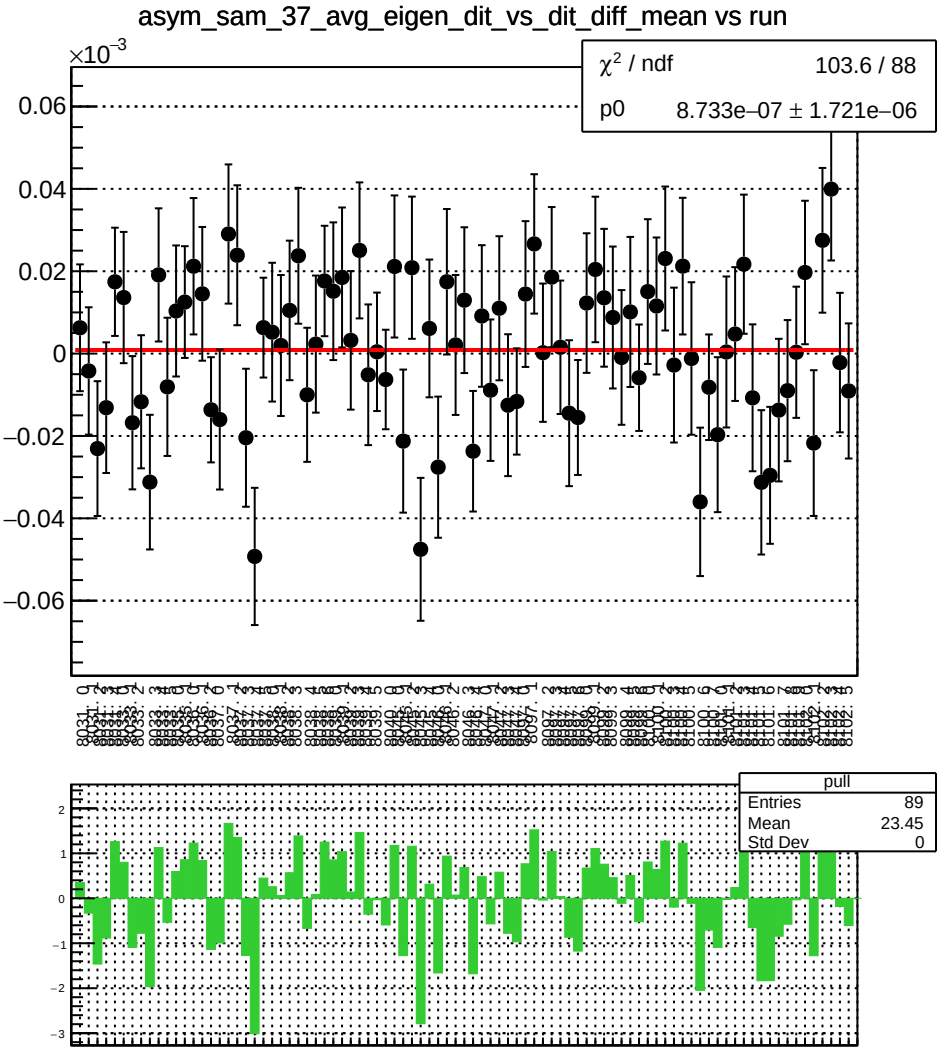

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 102.9 / 88
p0 −0.02007 ± 0.06178
pull
Entries 89
Mean 21.52
Std Dev 0

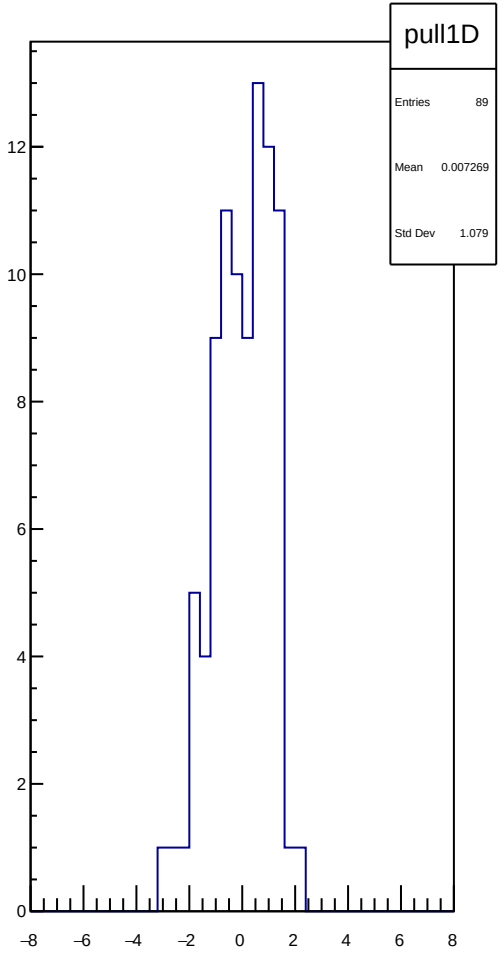

pull1D
Entries 89
Mean 0.01781
Std Dev 1.075

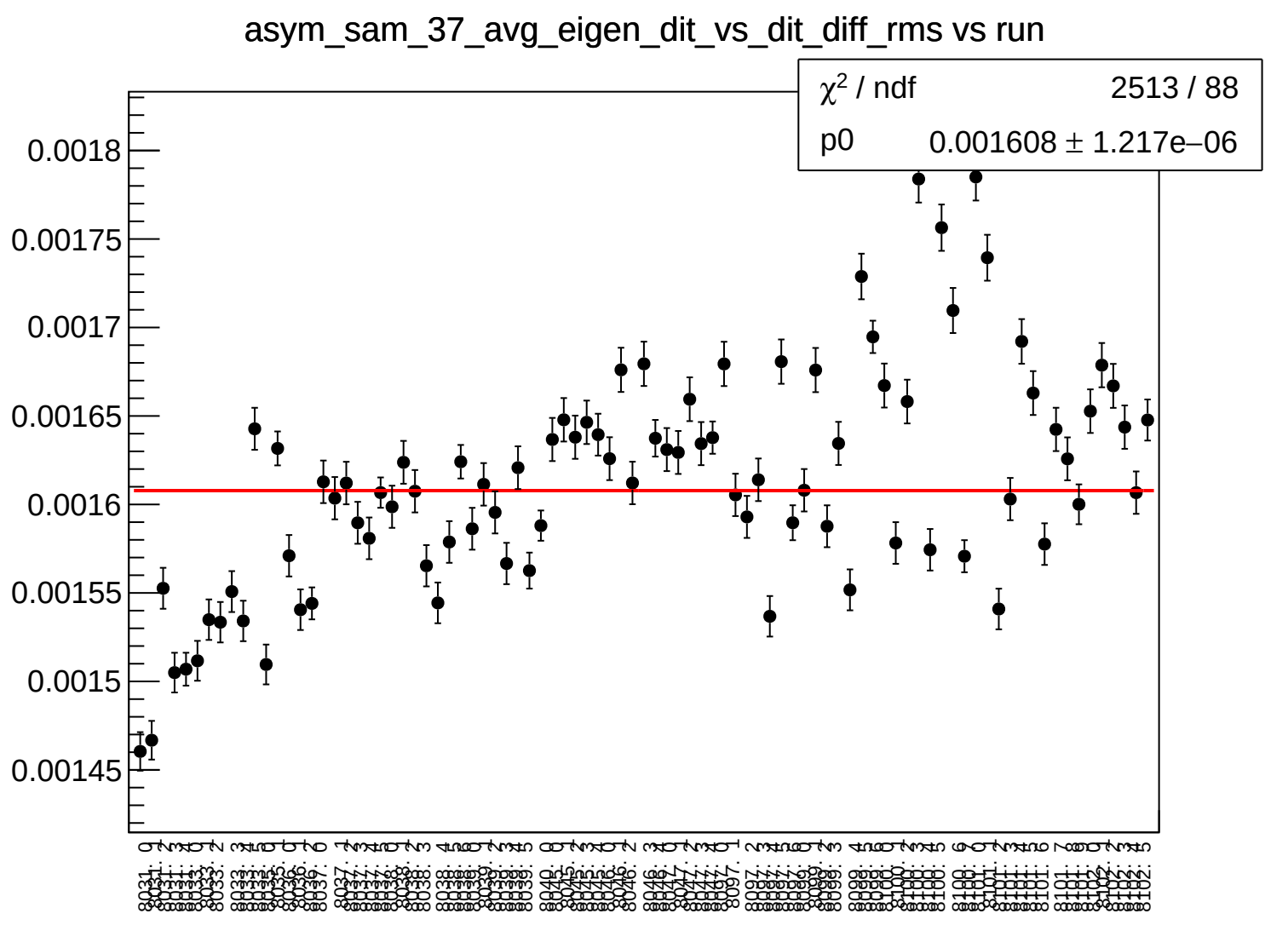

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.135e+05 / 88
p0 55.84 ± 0.04369
120
100
80
60
40

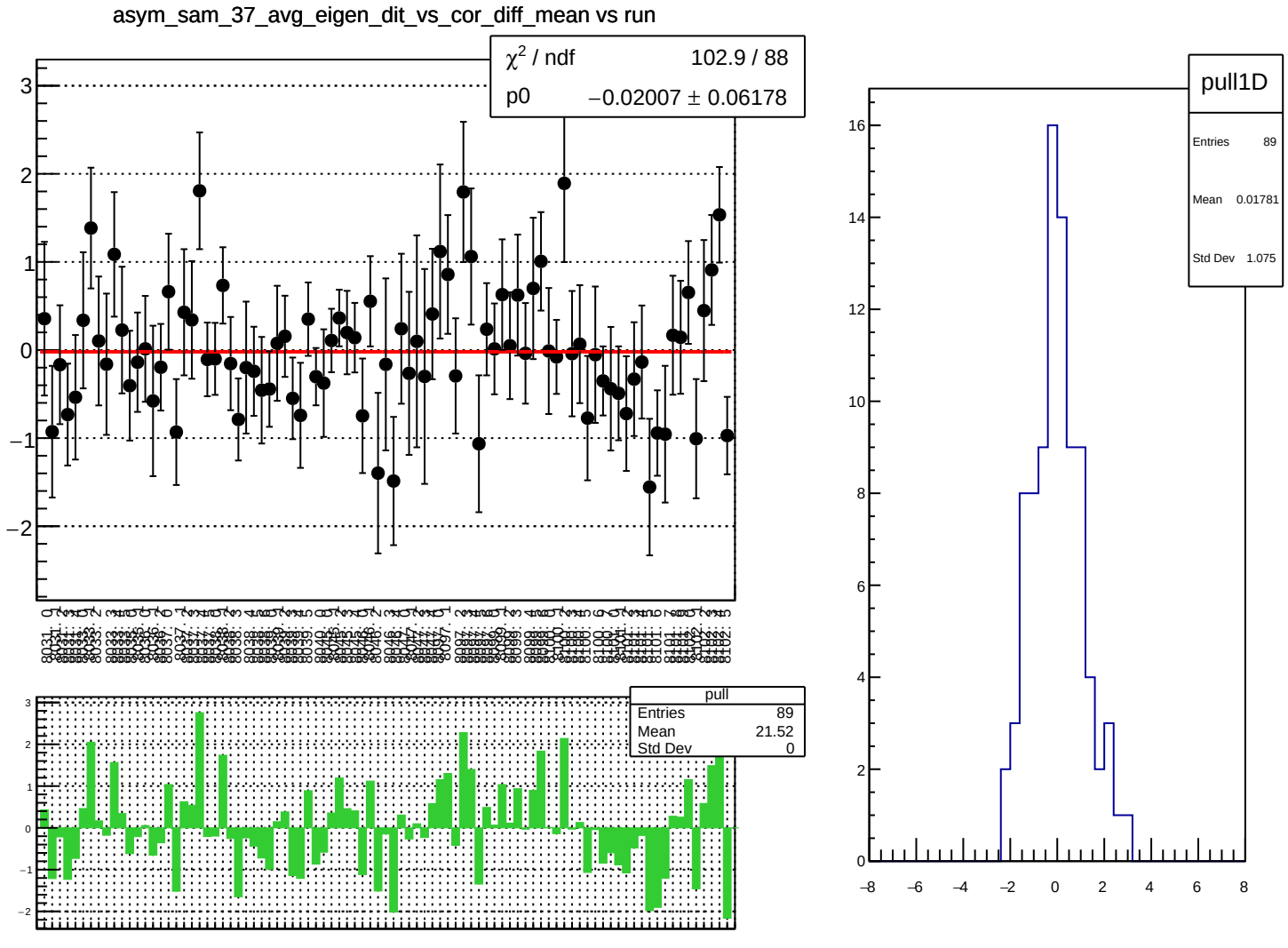

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.9 / 88
p0 −0.02007 ± 0.06178
pull
Entries 89
Mean 21.52
Std Dev 0
pull1D
Entries 89
Mean 0.01781
Std Dev 1.075

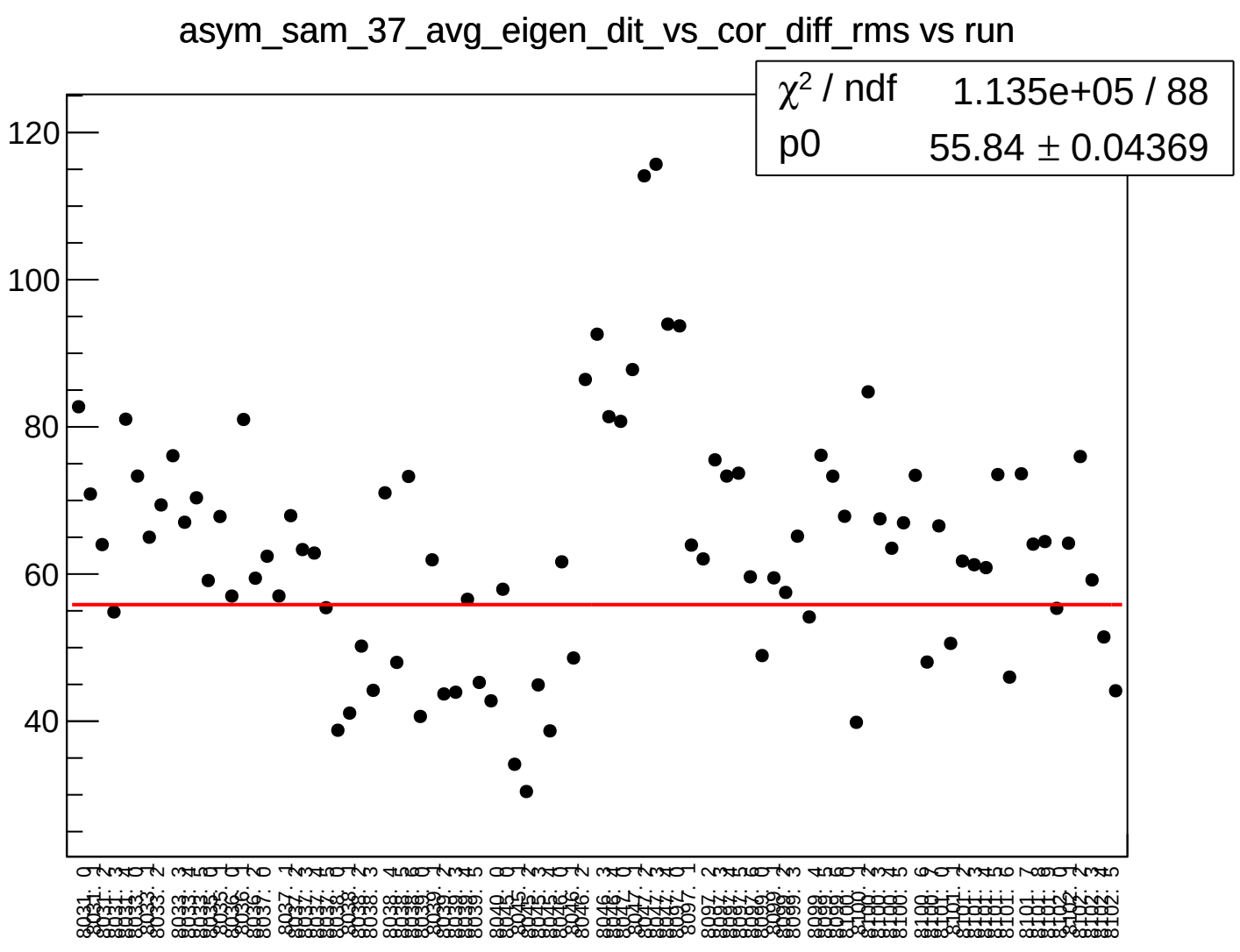

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.135e+05 / 88
p0 55.84 ± 0.04369
120
100
80
60
40

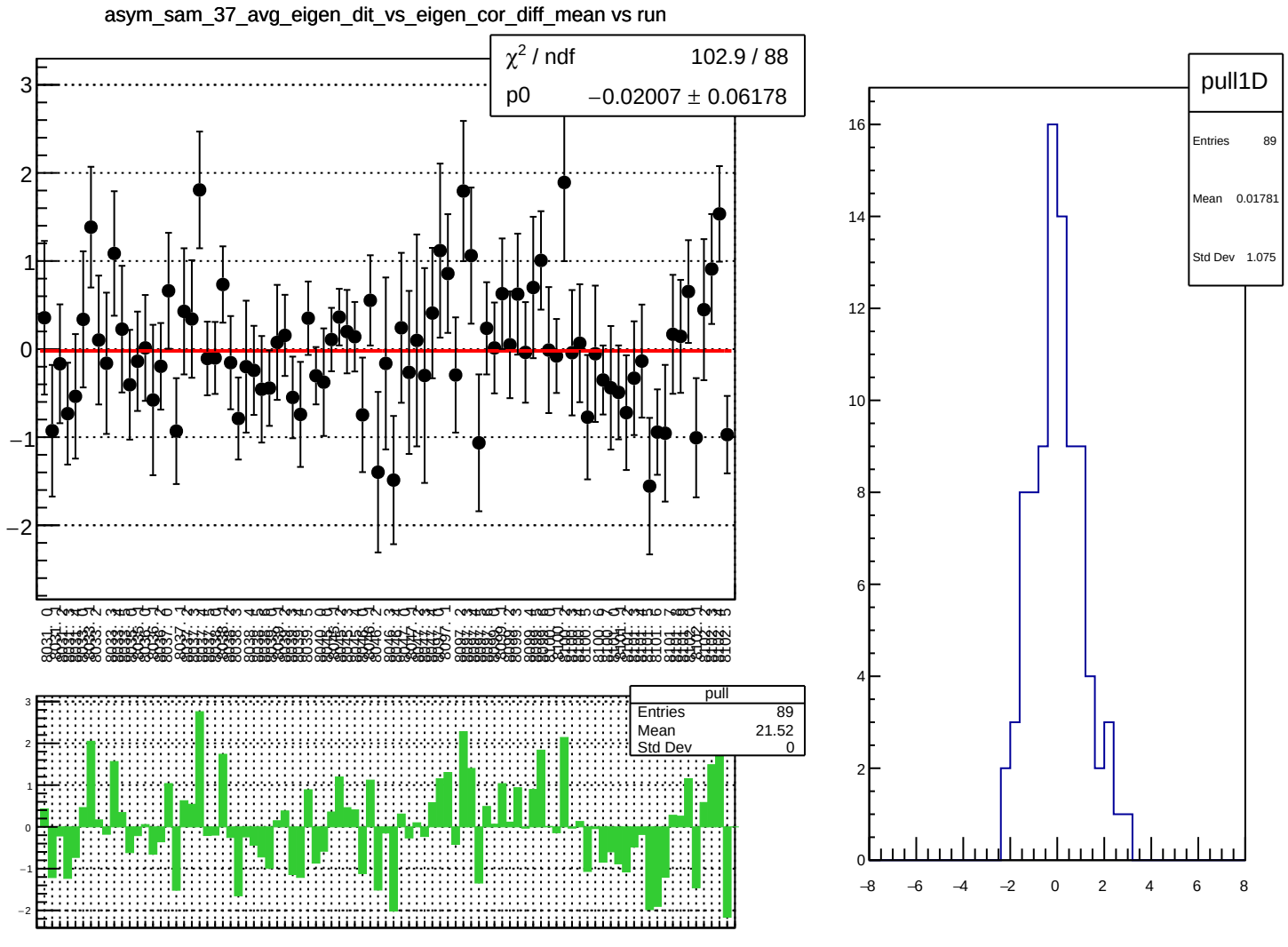

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103.6 / 88
p0 8.733e−07 ± 1.721e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 89
Mean 23.45
Std Dev 0
2
1
0
−1
−2
−3

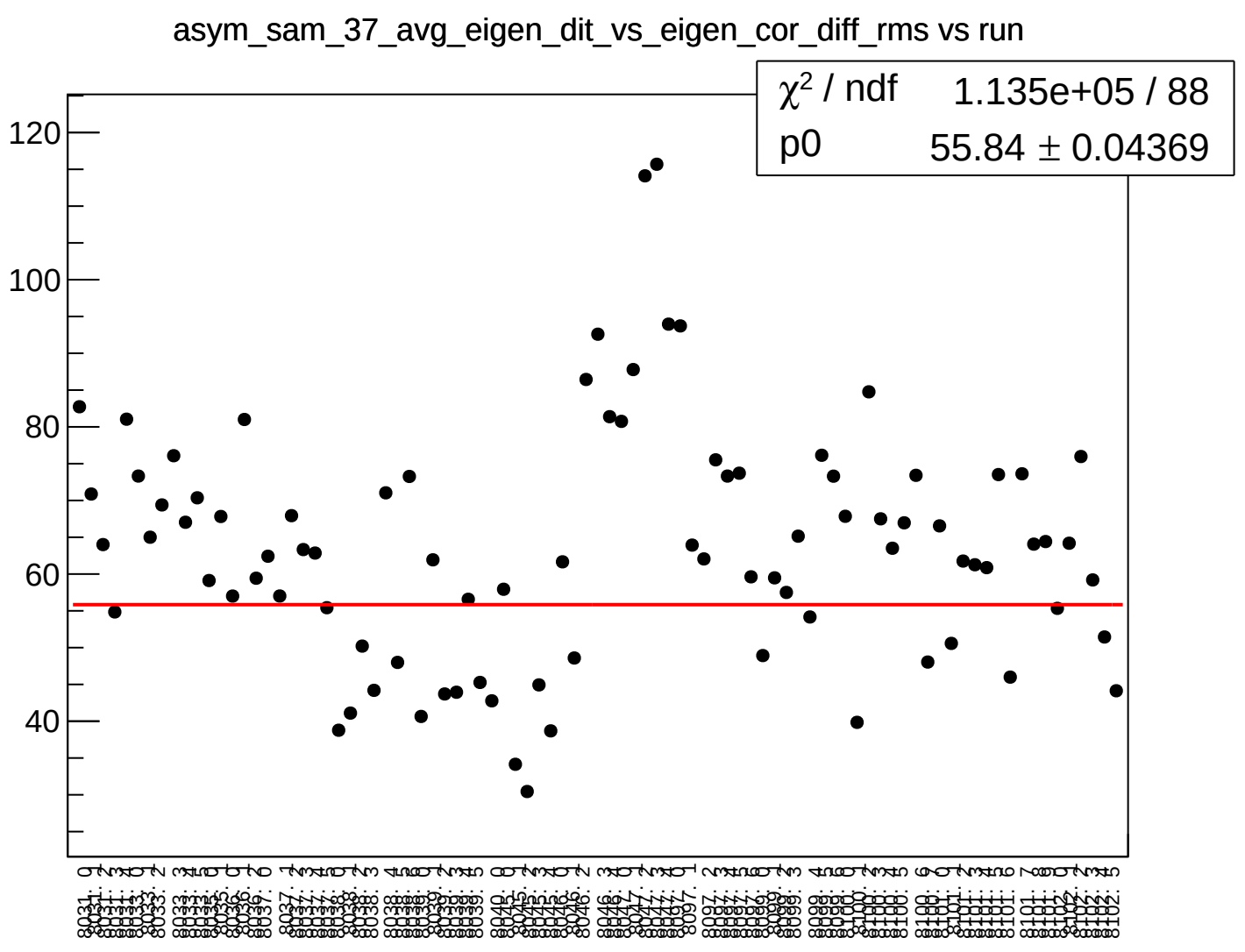

pull1D
Entries 89
Mean 0.007269
Std Dev 1.079
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

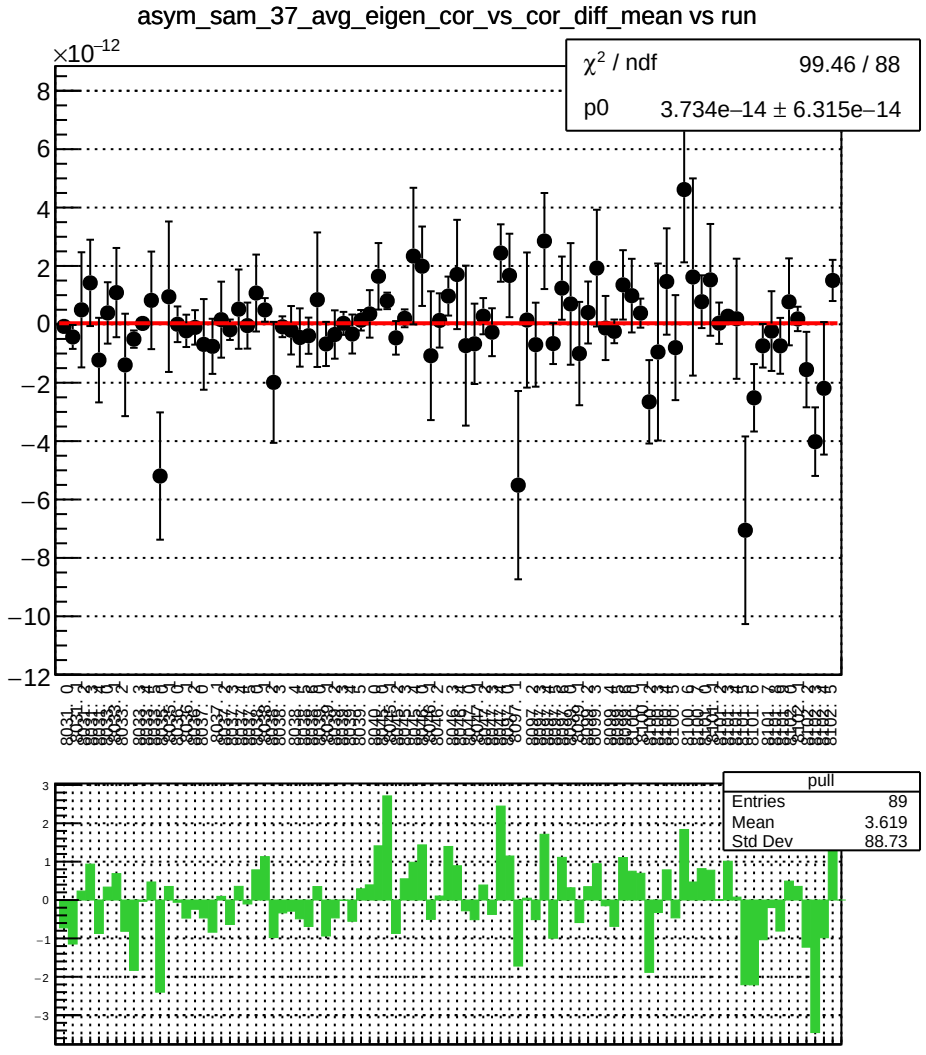

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2513 / 88
p0 0.001608 ± 1.217e−06
0.0018
0.00175
0.0017
0.00165
0.0016
0.00155
0.0015
0.00145

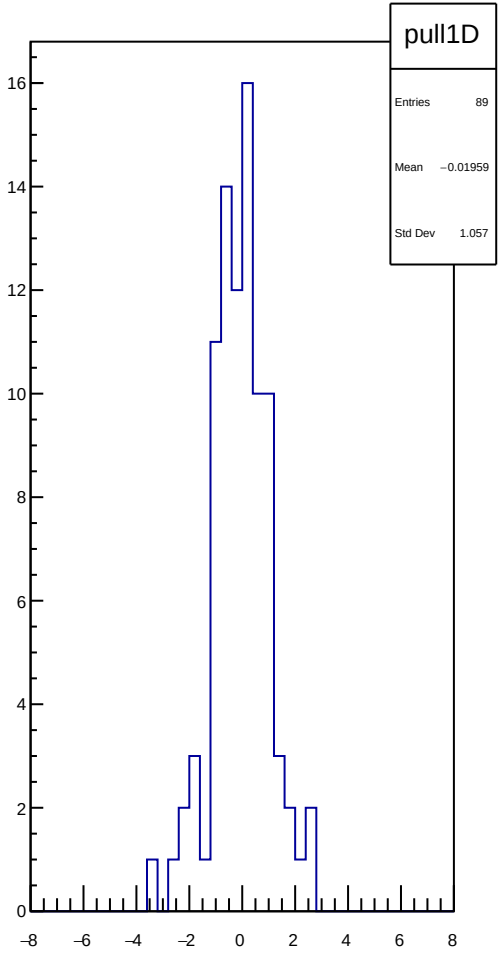

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 102.9 / 88
p0 −0.02007 ± 0.06178
pull
Entries 89
Mean 21.52
Std Dev 0
pull1D
Entries 89
Mean 0.01781
Std Dev 1.075

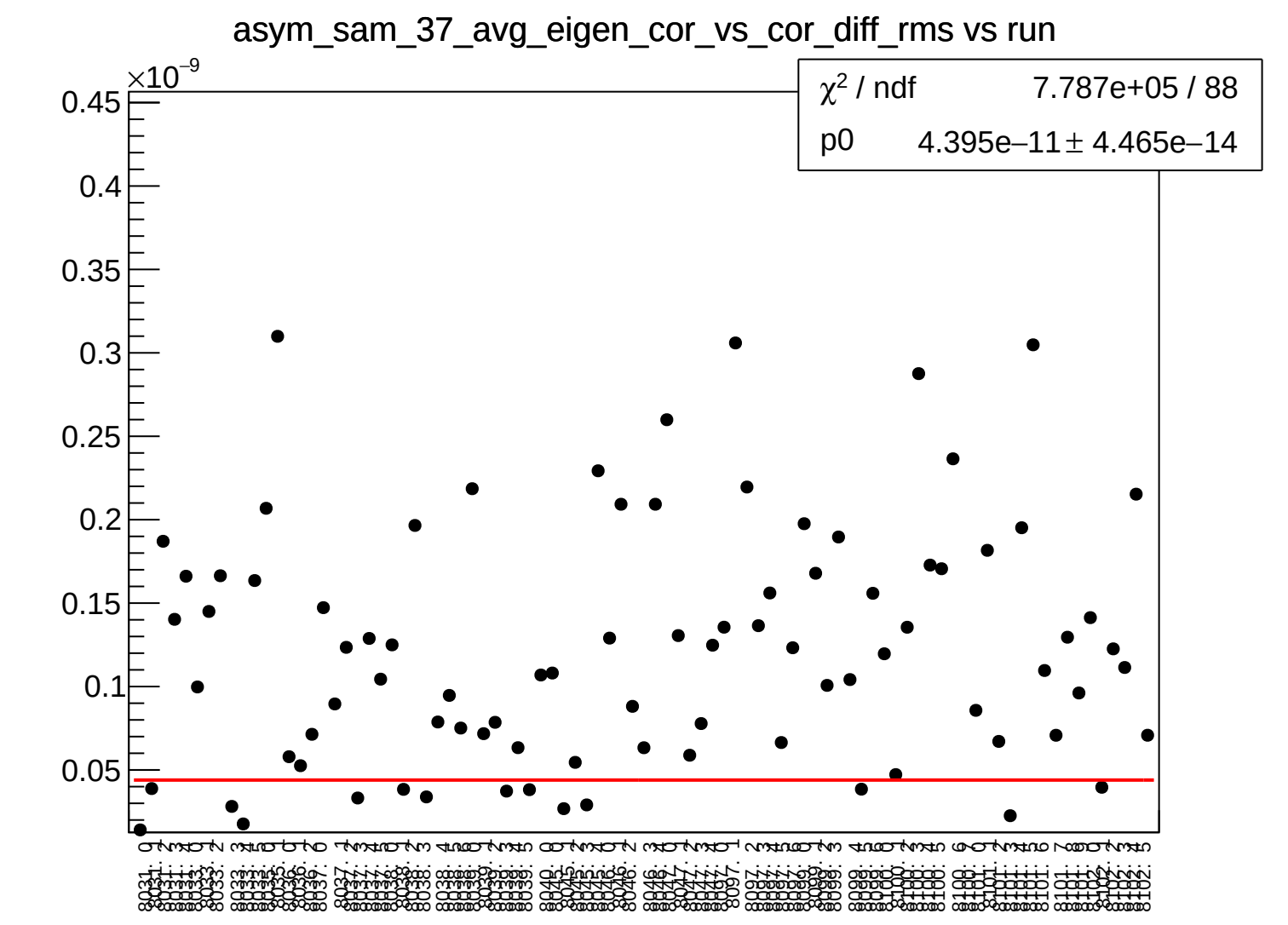

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.135e+05 / 88
p0 55.84 ± 0.04369
120
100
80
60
40

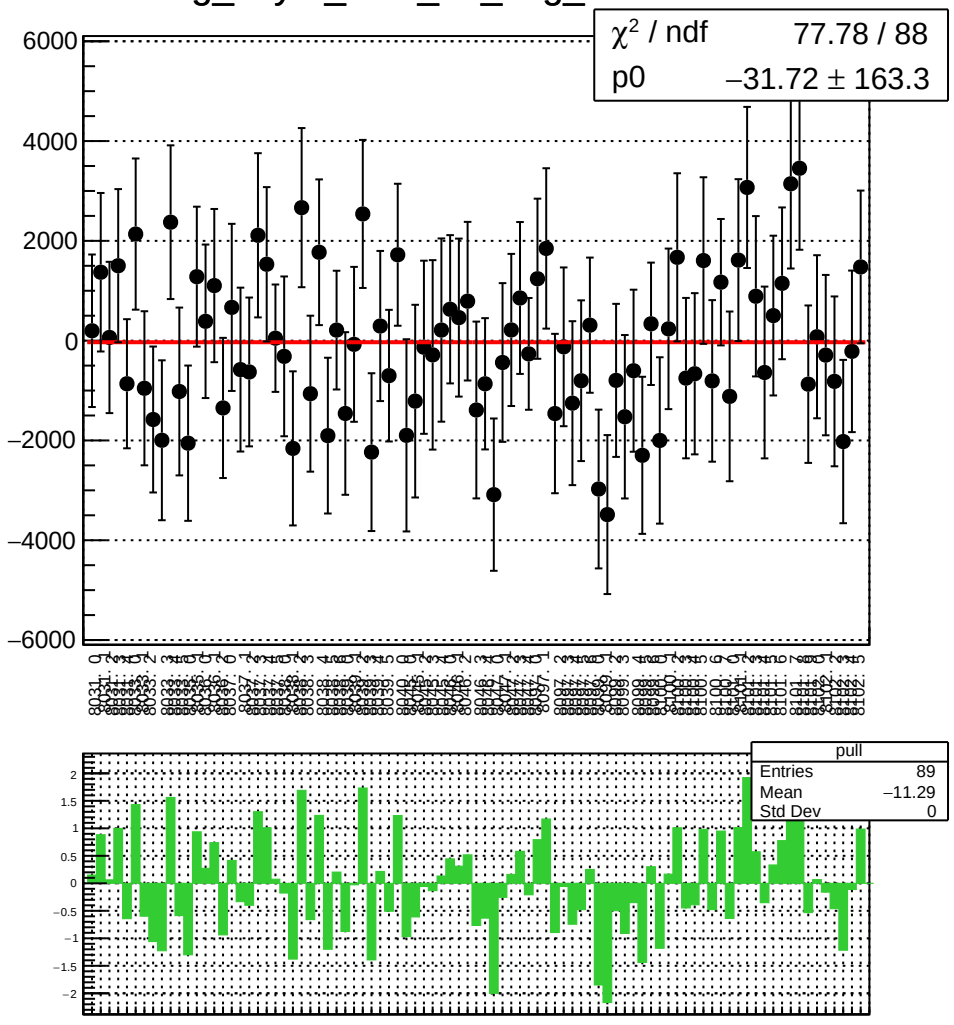

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.9 / 88
p0 −0.02007 ± 0.06178
pull
Entries 89
Mean 21.52
Std Dev 0
pull1D
Entries 89
Mean 0.01781
Std Dev 1.075

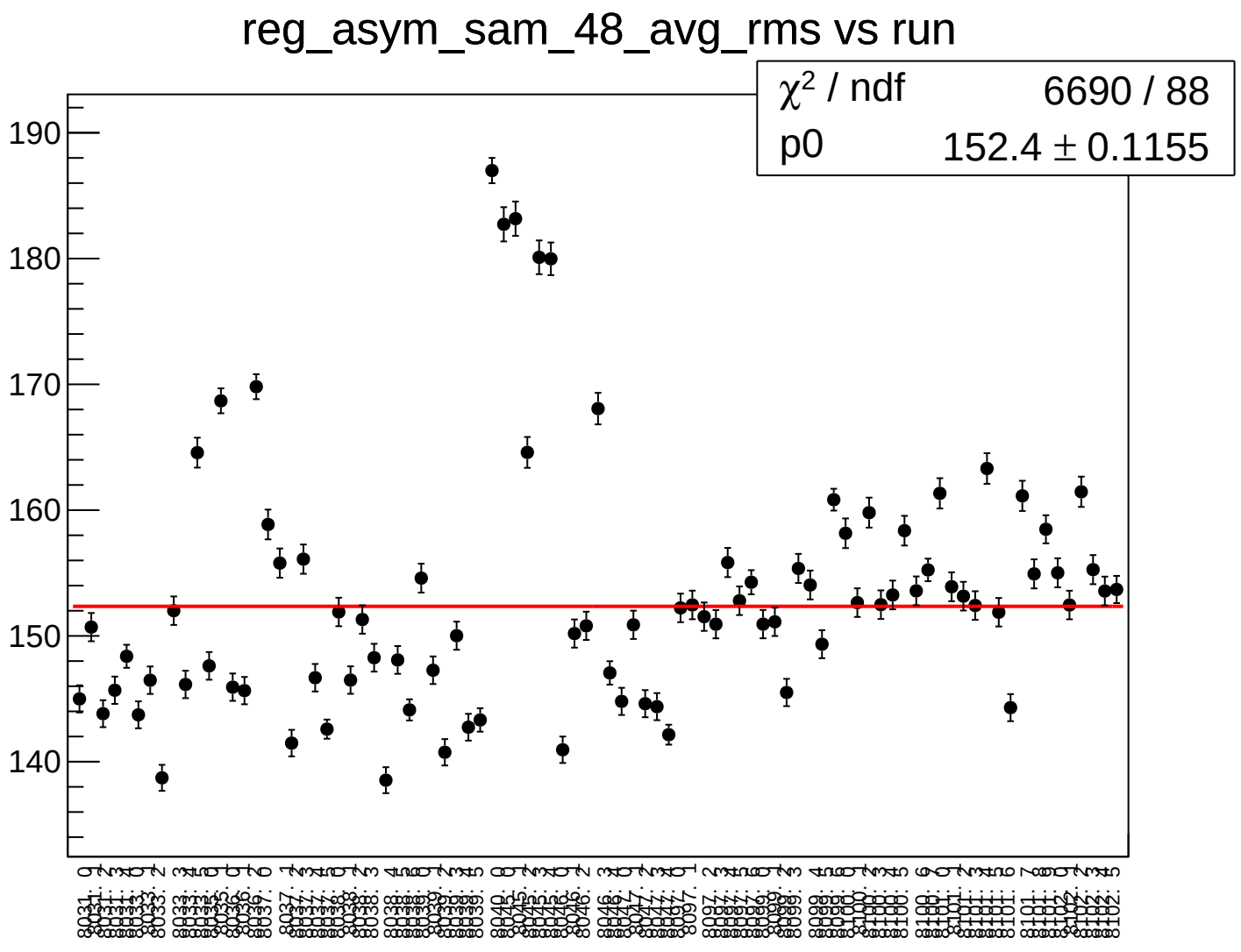

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.135e+05 / 88
p0 55.84 ± 0.04369
120
100
80
60
40

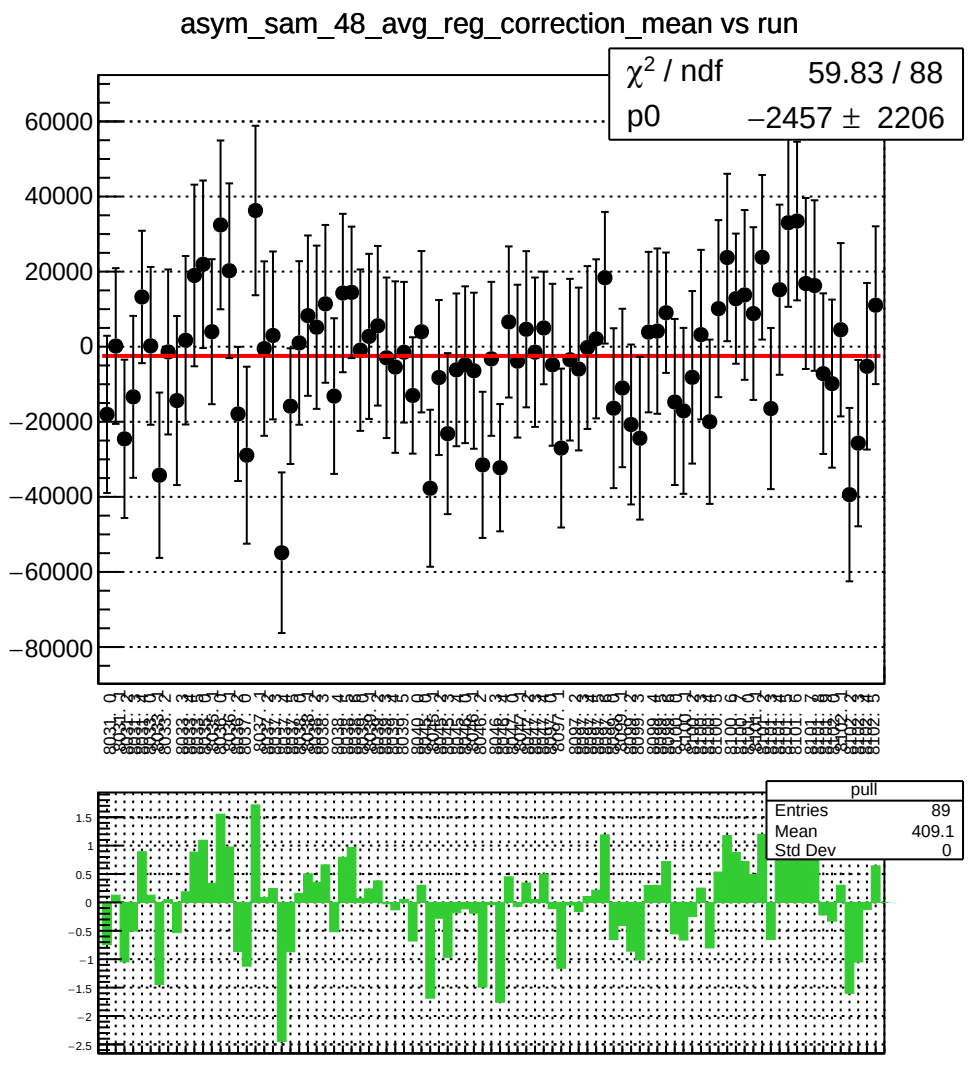

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.46 / 88
p0 3.734e−14 ± 6.315e−14
pull
Entries 89
Mean 3.619
Std Dev 88.73

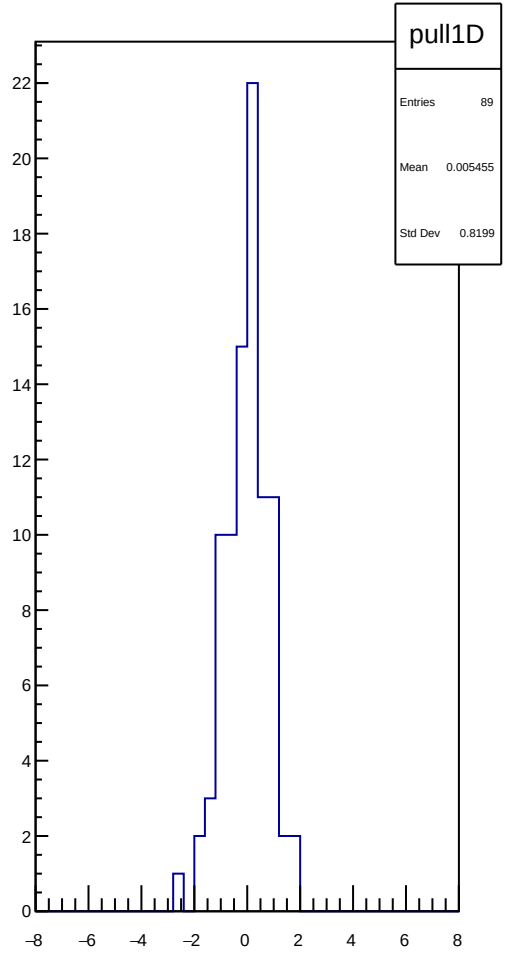

pull1D
Entries 89
Mean −0.01959
Std Dev 1.057

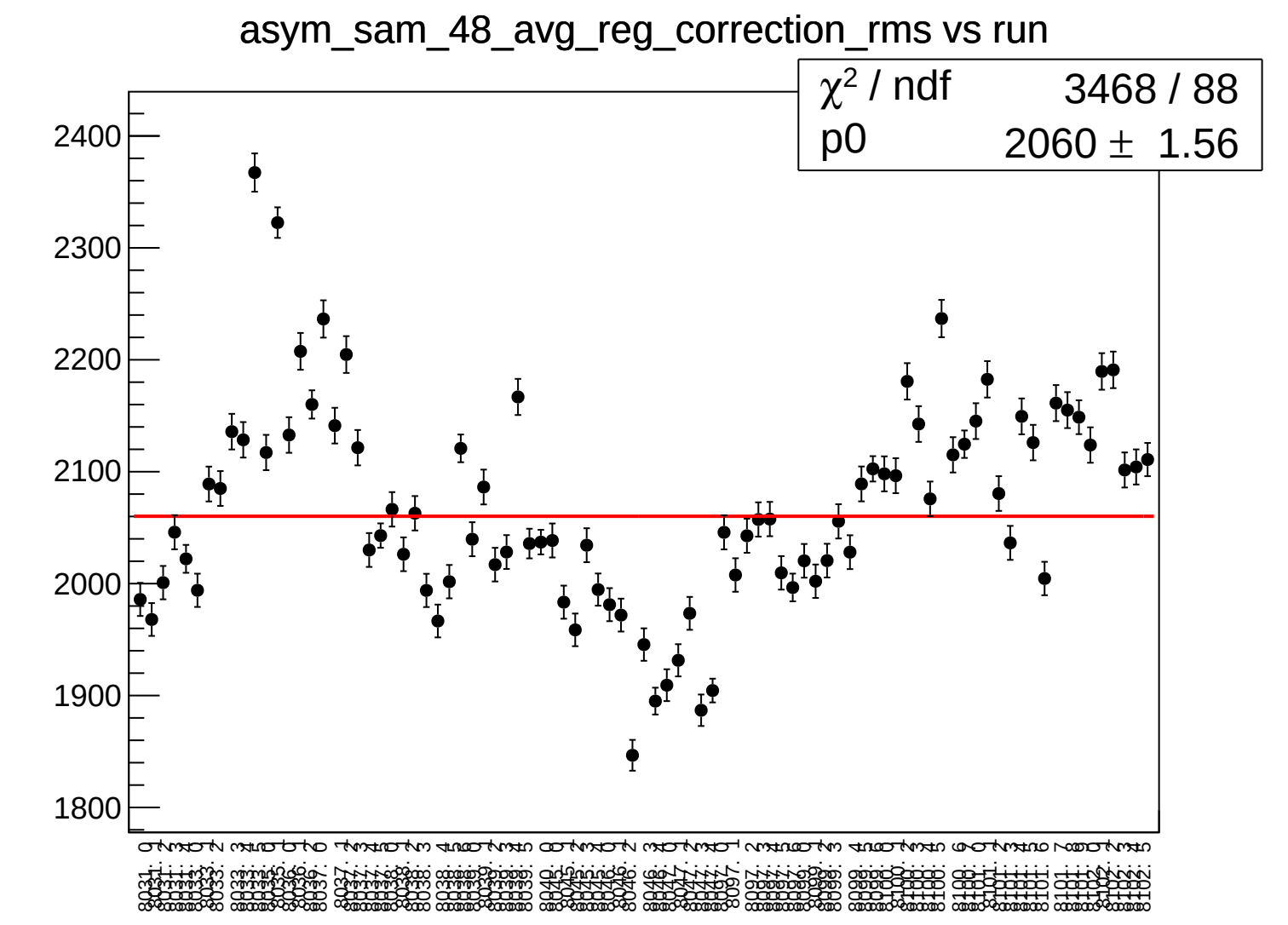

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.787e+05 / 88
p0 4.395e−11 ± 4.465e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

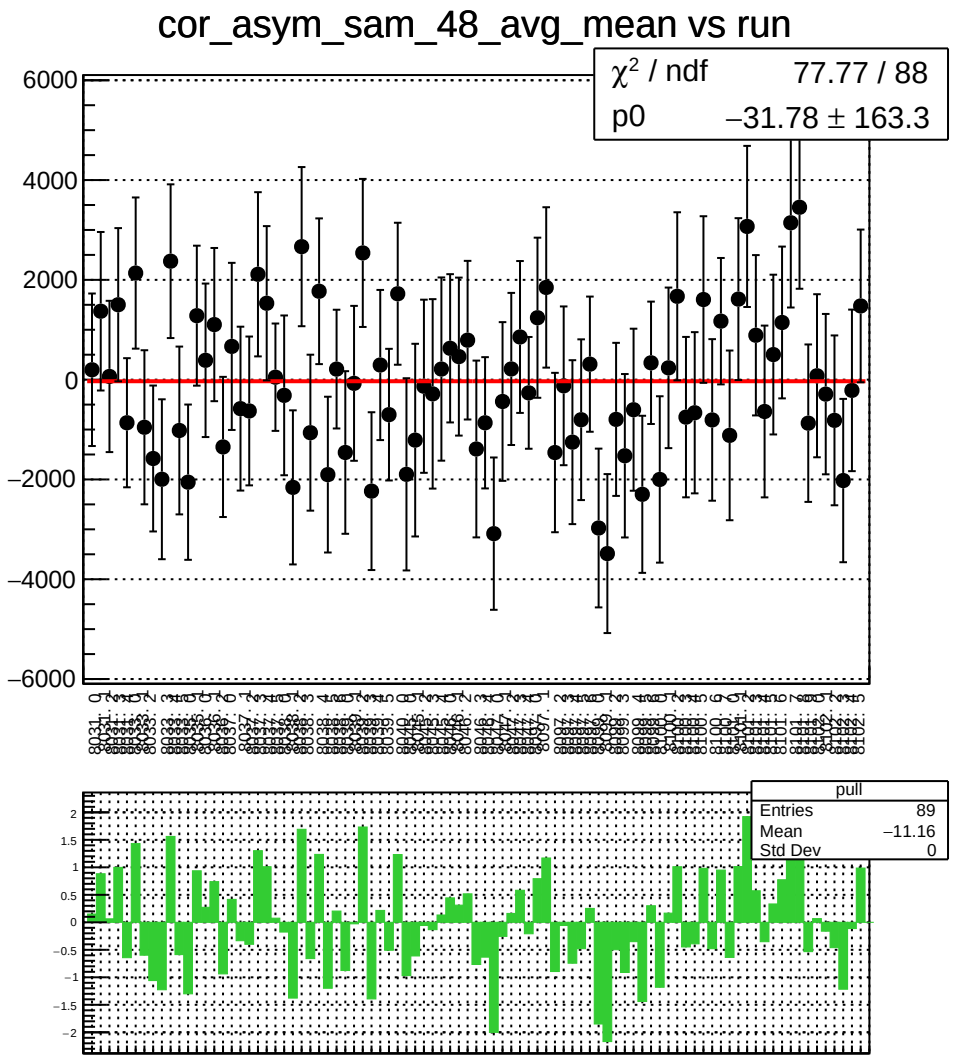

reg_asym_sam_48_avg_mean vs run
χ² / ndf 77.78 / 88
p0 −31.72 ± 163.3
pull
Entries 89
Mean −11.29
Std Dev 0
pull1D
Entries 89
Mean −0.00782
Std Dev 0.9348

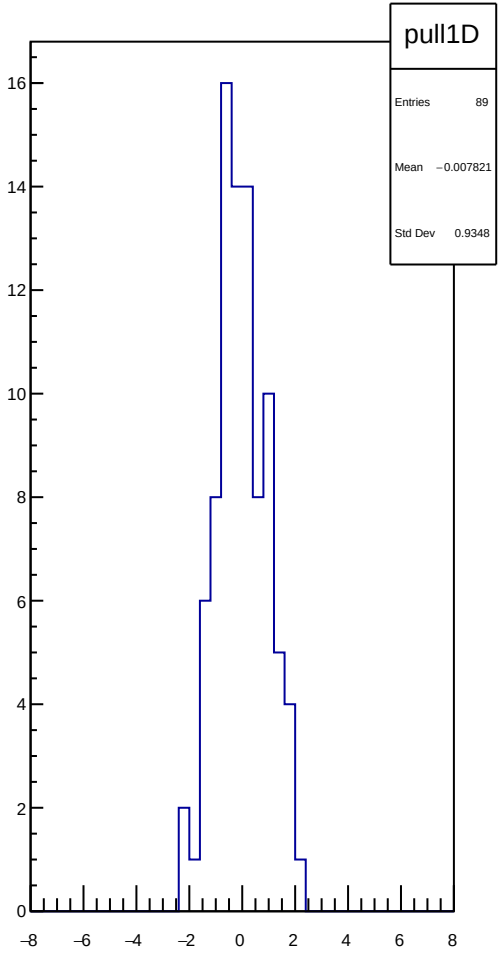

reg_asym_sam_48_avg_rms vs run
χ² / ndf 6690 / 88
p0 152.4 ± 0.1155
190
180
170
160
150
140

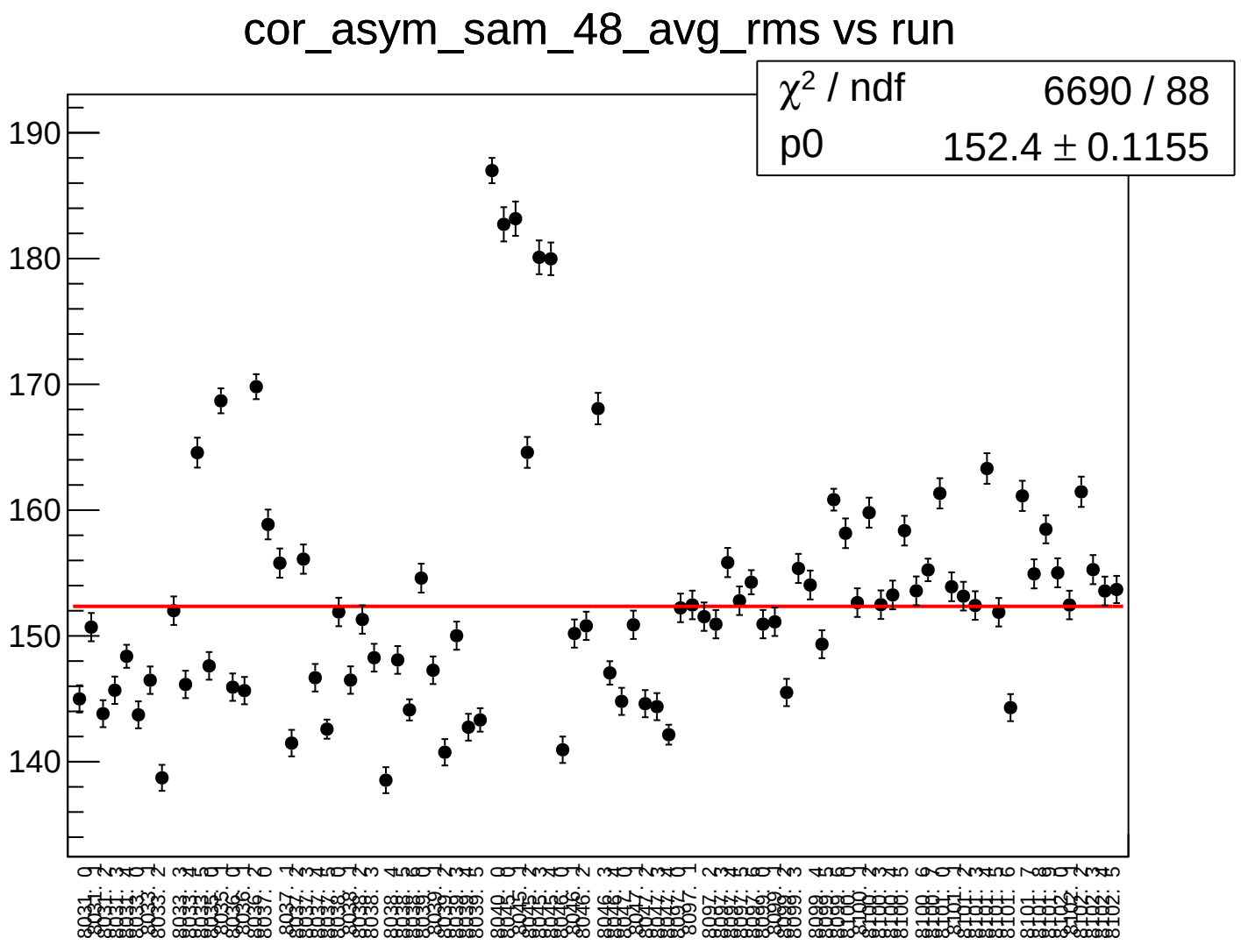

asym_sam_48_avg_reg_correction_mean vs run
χ² / ndf 59.83 / 88
p0 −2457 ± 2206
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 409.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

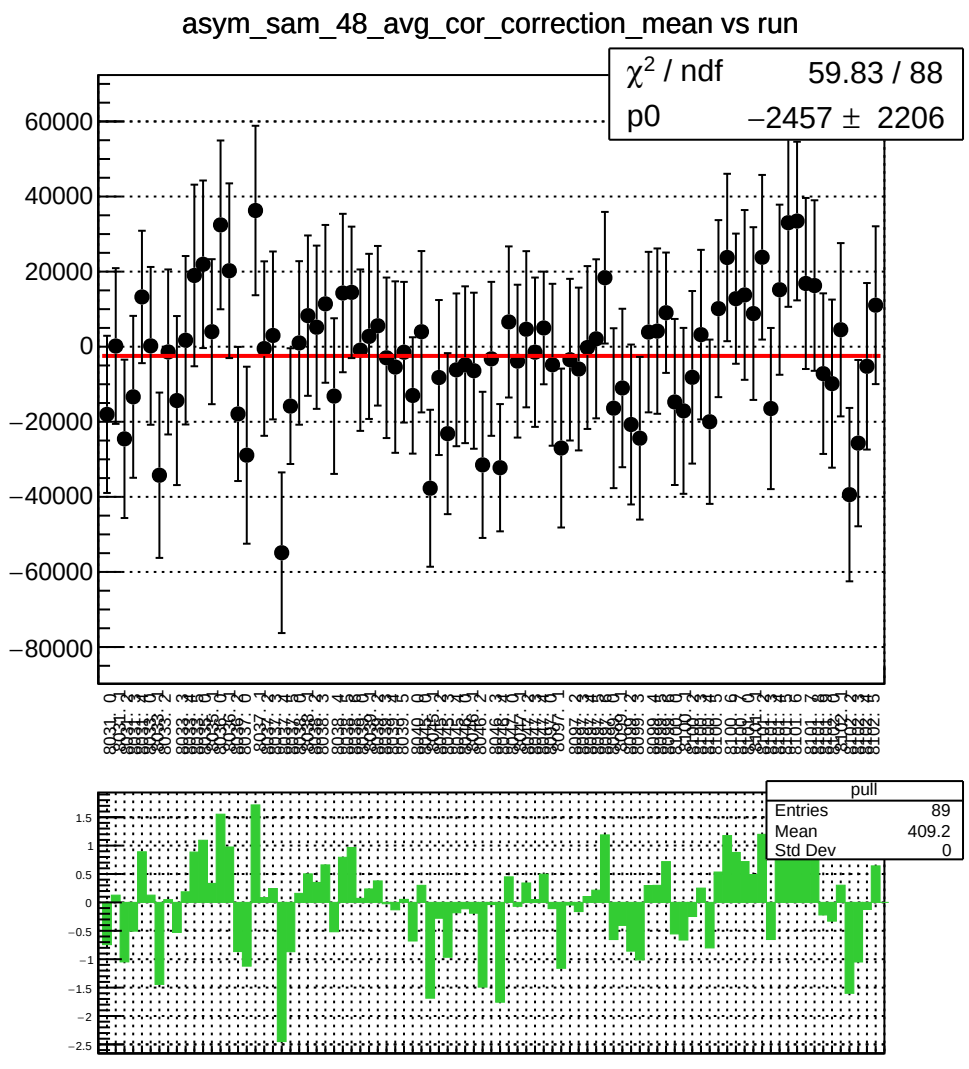

pull1D
Entries 89
Mean 0.005455
Std Dev 0.8199
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

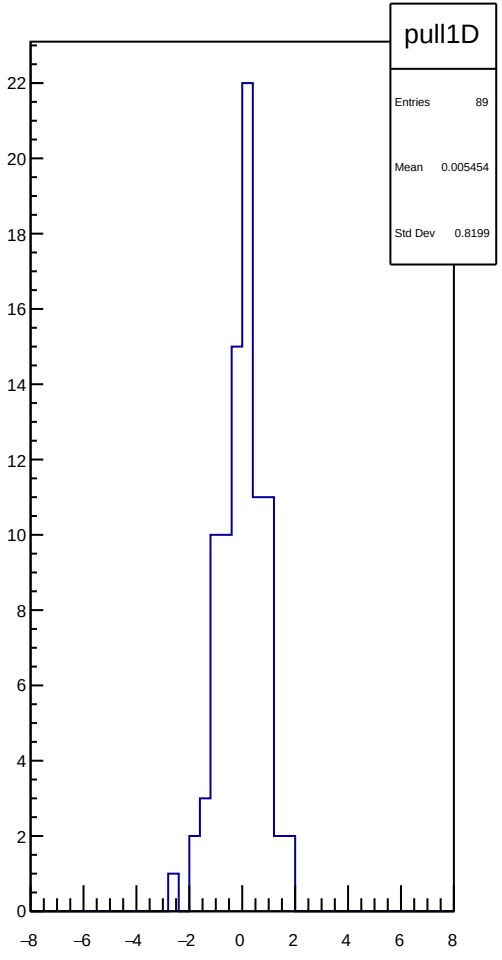

asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 3468 / 88
p0 2060 ± 1.56
2400
2300
2200
2100
2000
1900
1800

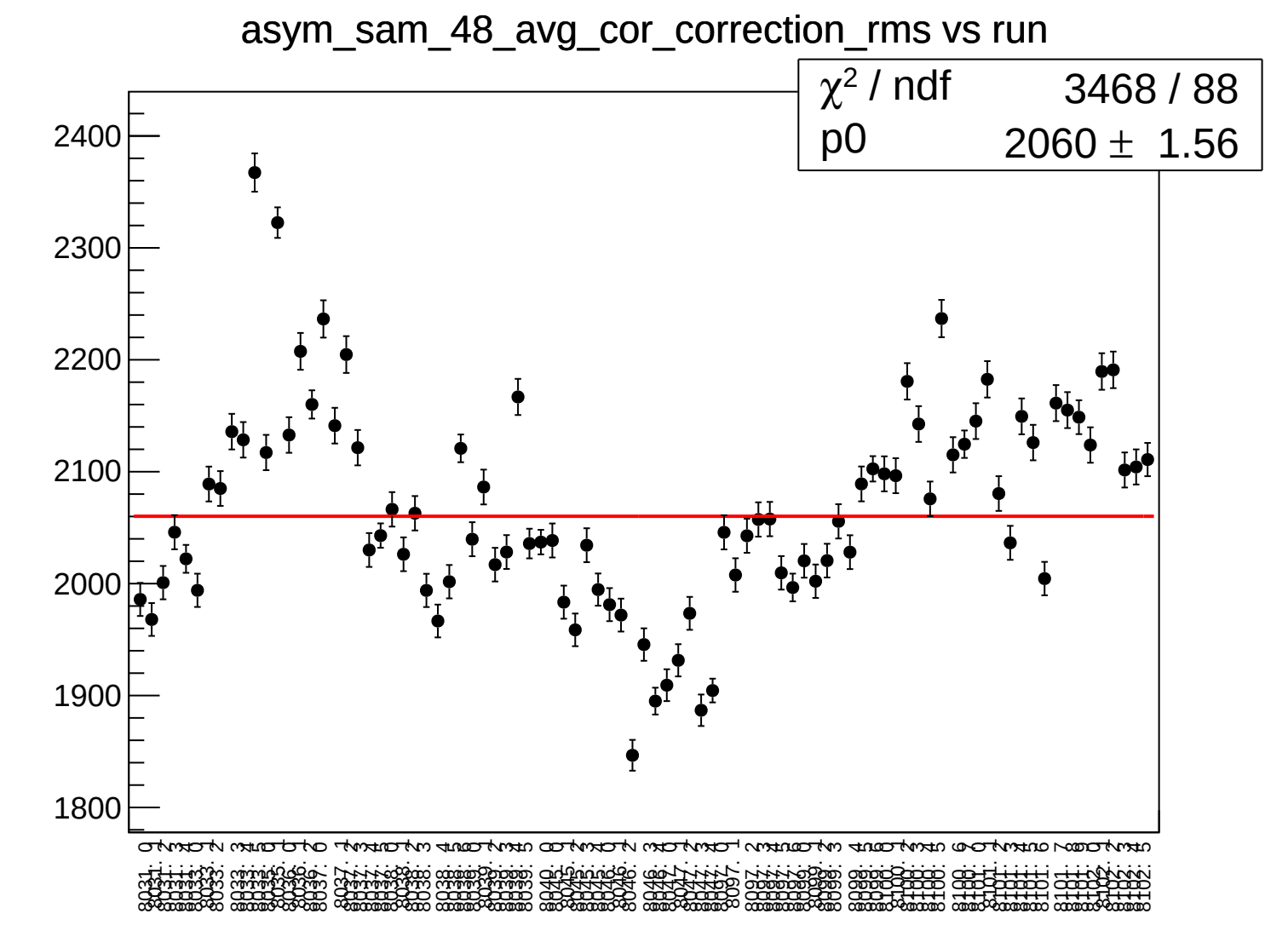

cor_asym_sam_48_avg_mean vs run
χ² / ndf 77.77 / 88
p0 −31.78 ± 163.3
pull
Entries 89
Mean −11.16
Std Dev 0

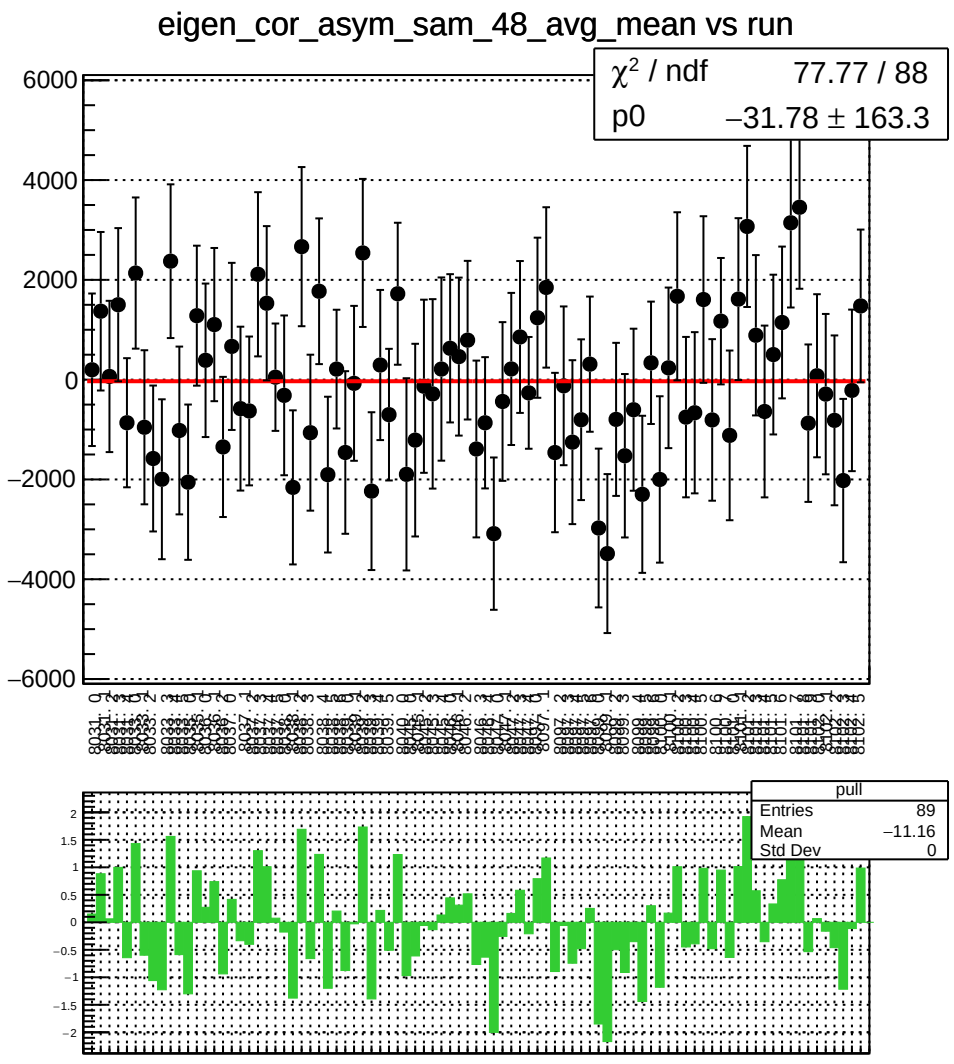

pull1D
Entries 89
Mean −0.007821
Std Dev 0.9348

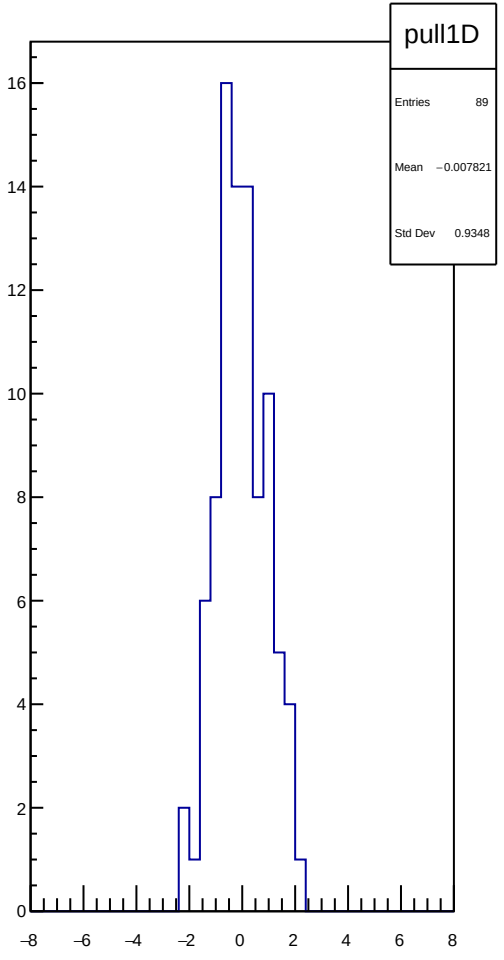

cor_asym_sam_48_avg_rms vs run
χ² / ndf 6690 / 88
p0 152.4 ± 0.1155
190
180
170
160
150
140

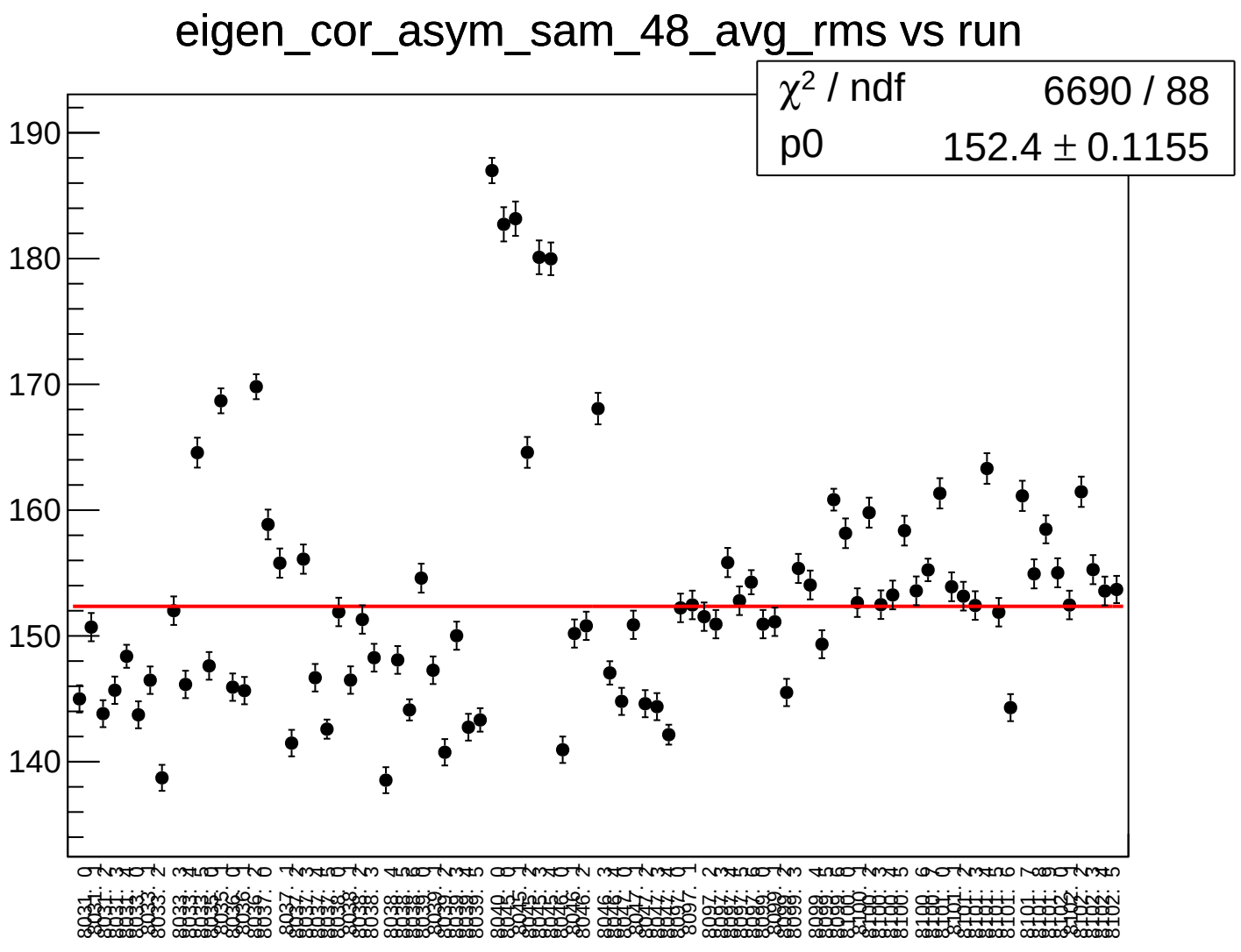

asym_sam_48_avg_cor_correction_mean vs run
χ² / ndf 59.83 / 88
p0 −2457 ± 2206
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 409.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

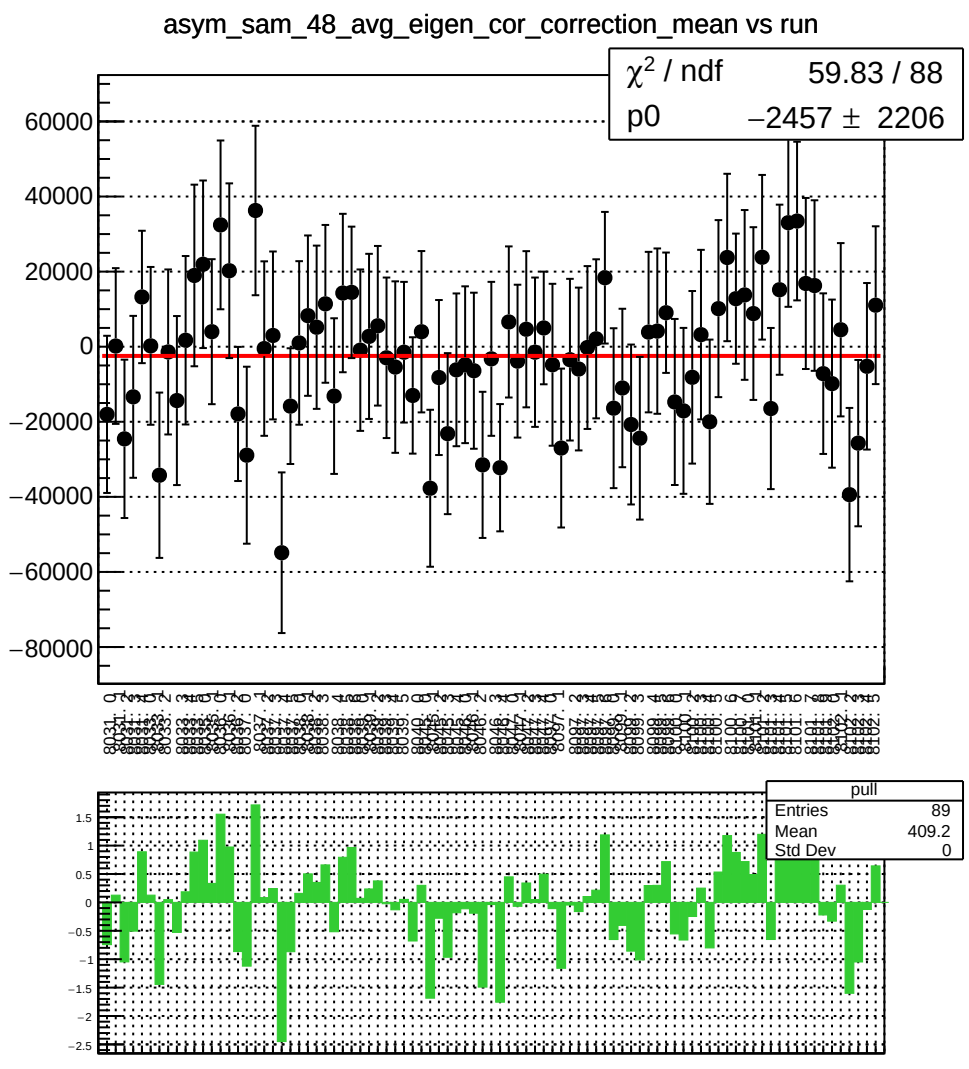

pull1D
Entries 89
Mean 0.005454
Std Dev 0.8199
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

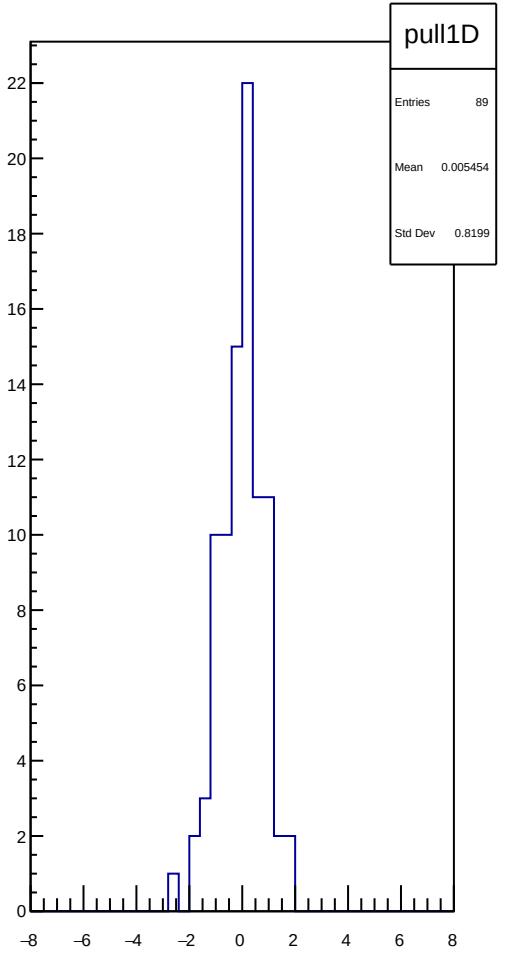

asym_sam_48_avg_cor_correction_rms vs run
χ² / ndf 3468 / 88
p0 2060 ± 1.56
2400
2300
2200
2100
2000
1900
1800

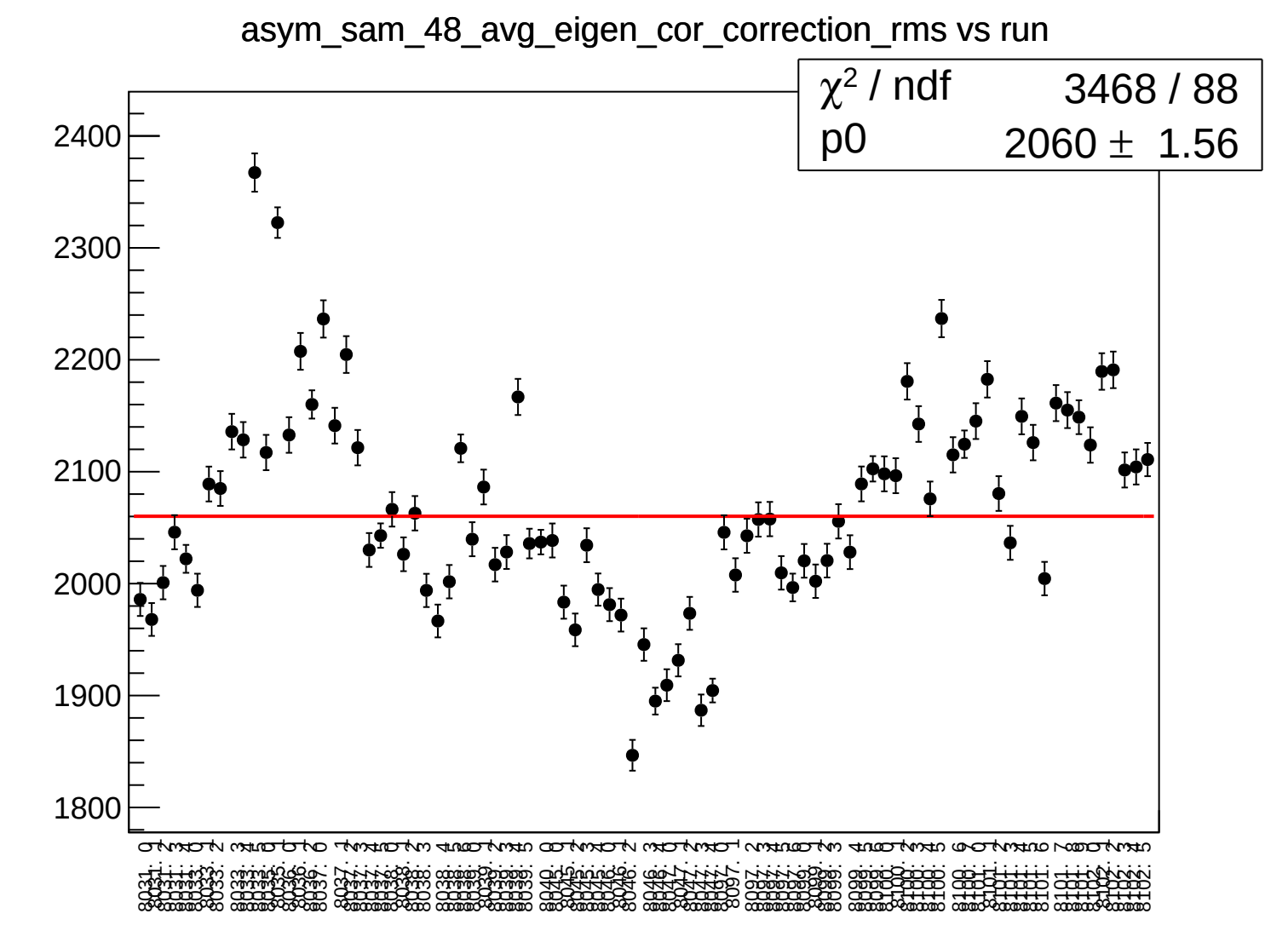

eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 77.77 / 88
p0 −31.78 ± 163.3
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −11.16
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

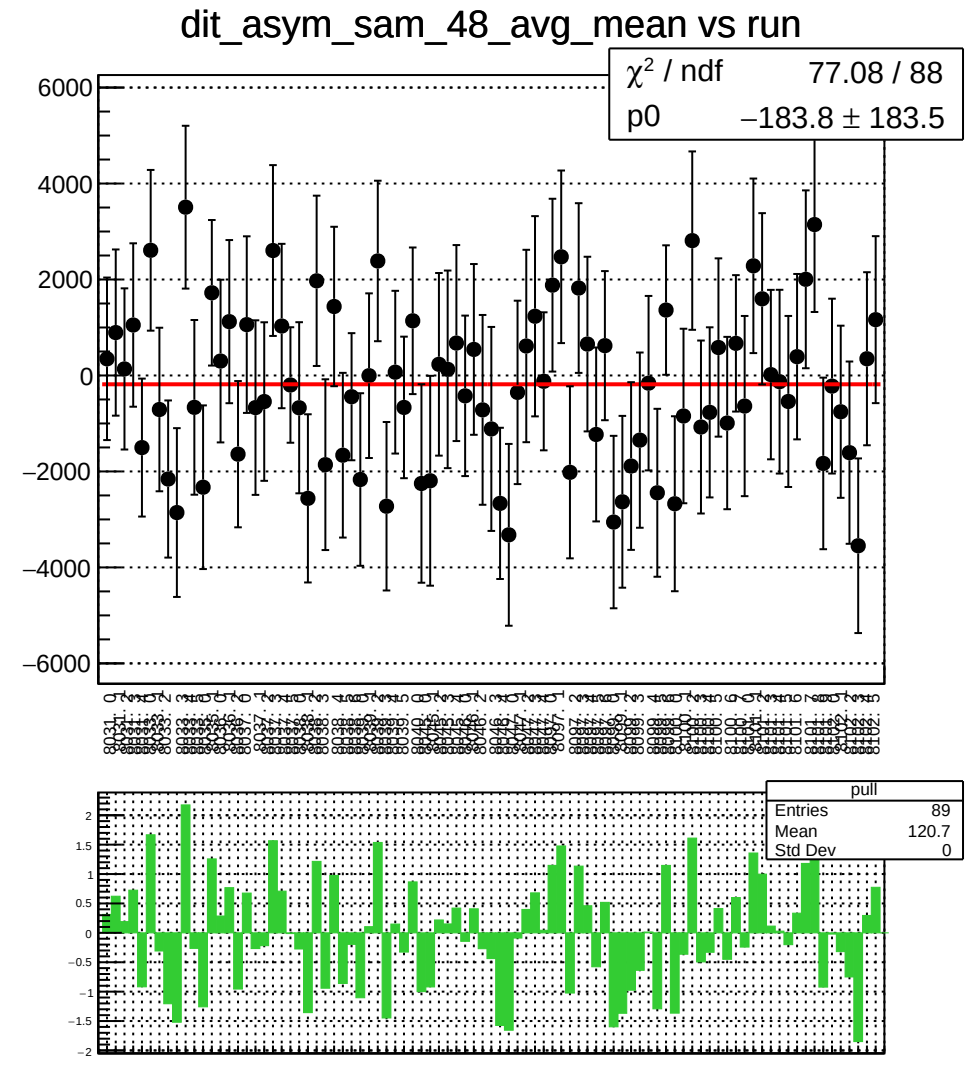

pull1D
Entries 89
Mean −0.007821
Std Dev 0.9348
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

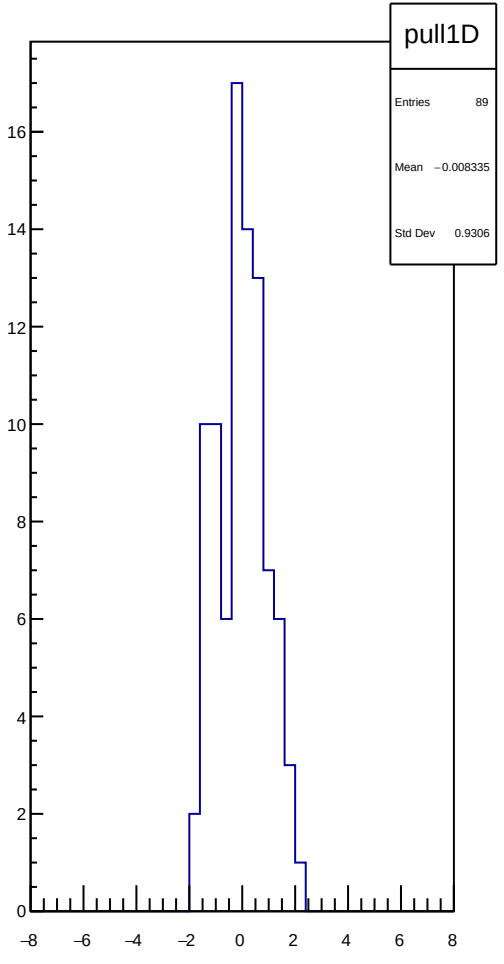

eigen_cor_asym_sam_48_avg_rms vs run
χ² / ndf 6690 / 88
p0 152.4 ± 0.1155
190
180
170
160
150
140

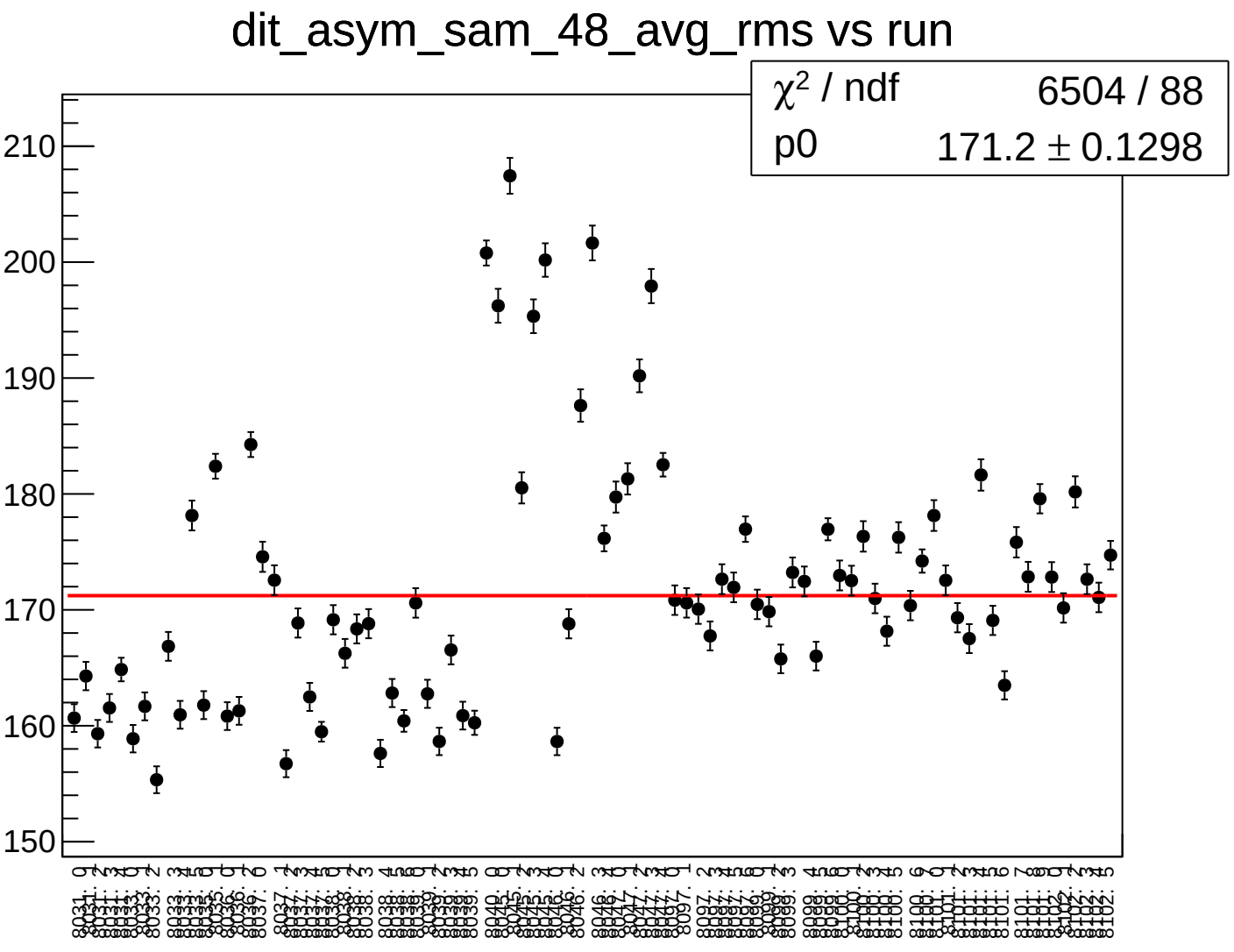

asym_sam_48_avg_eigen_cor_correction_mean vs run
χ² / ndf 59.83 / 88
p0 −2457 ± 2206
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 409.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

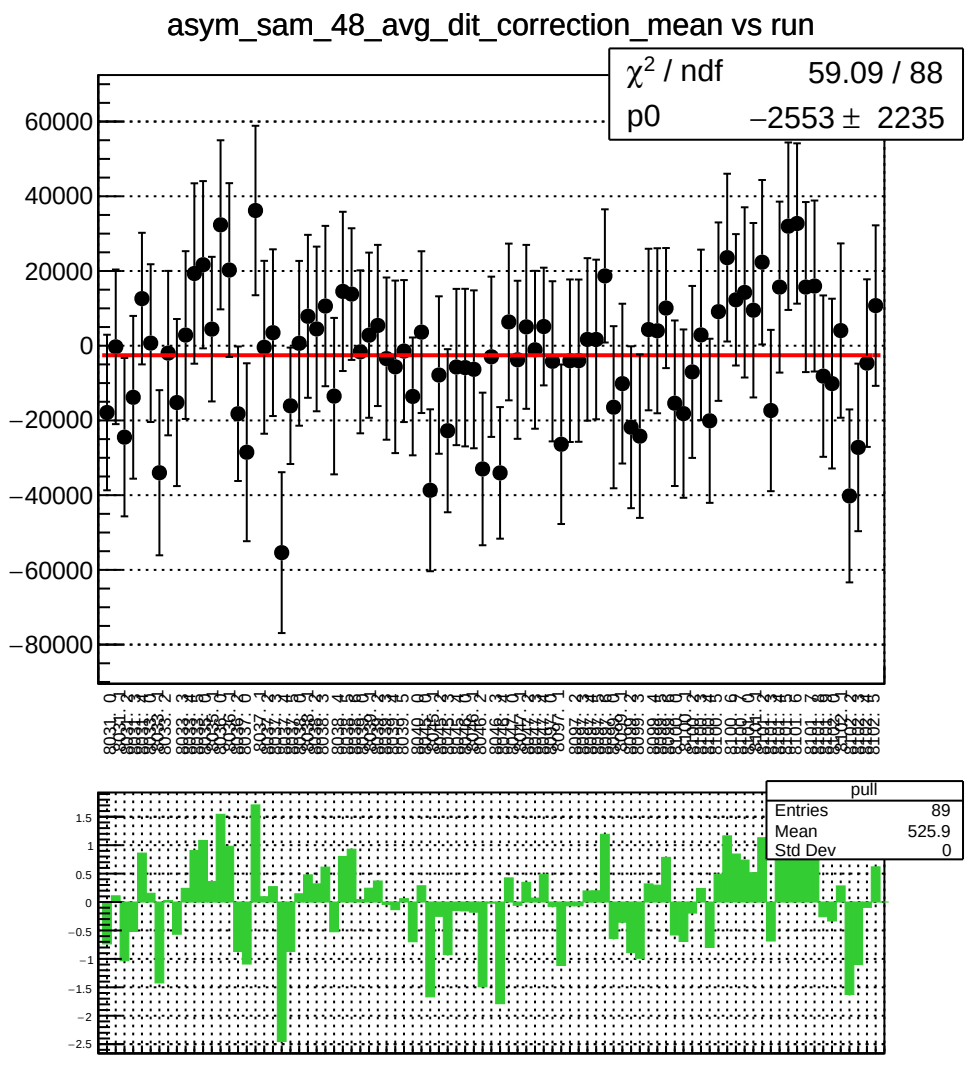

pull1D
Entries 89
Mean 0.005454
Std Dev 0.8199
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

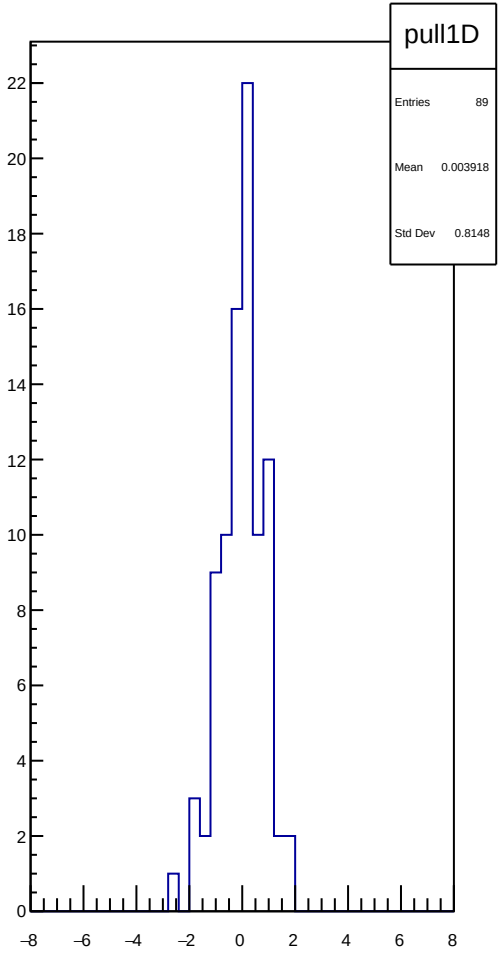

asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 3468 / 88
p0 2060 ± 1.56
2400
2300
2200
2100
2000
1900
1800

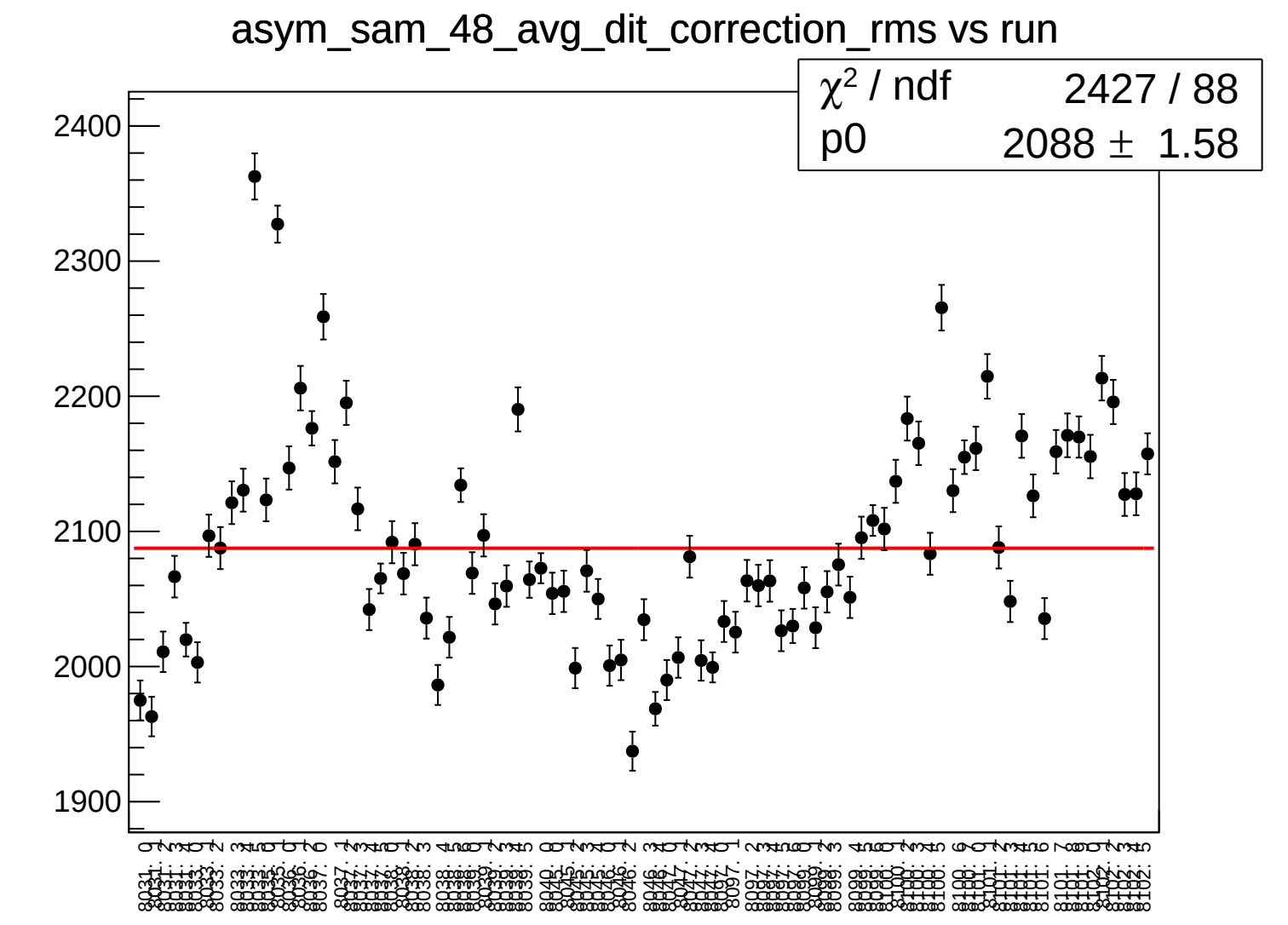

dit_asym_sam_48_avg_mean vs run
χ² / ndf 77.08 / 88
p0 −183.8 ± 183.5
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 120.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

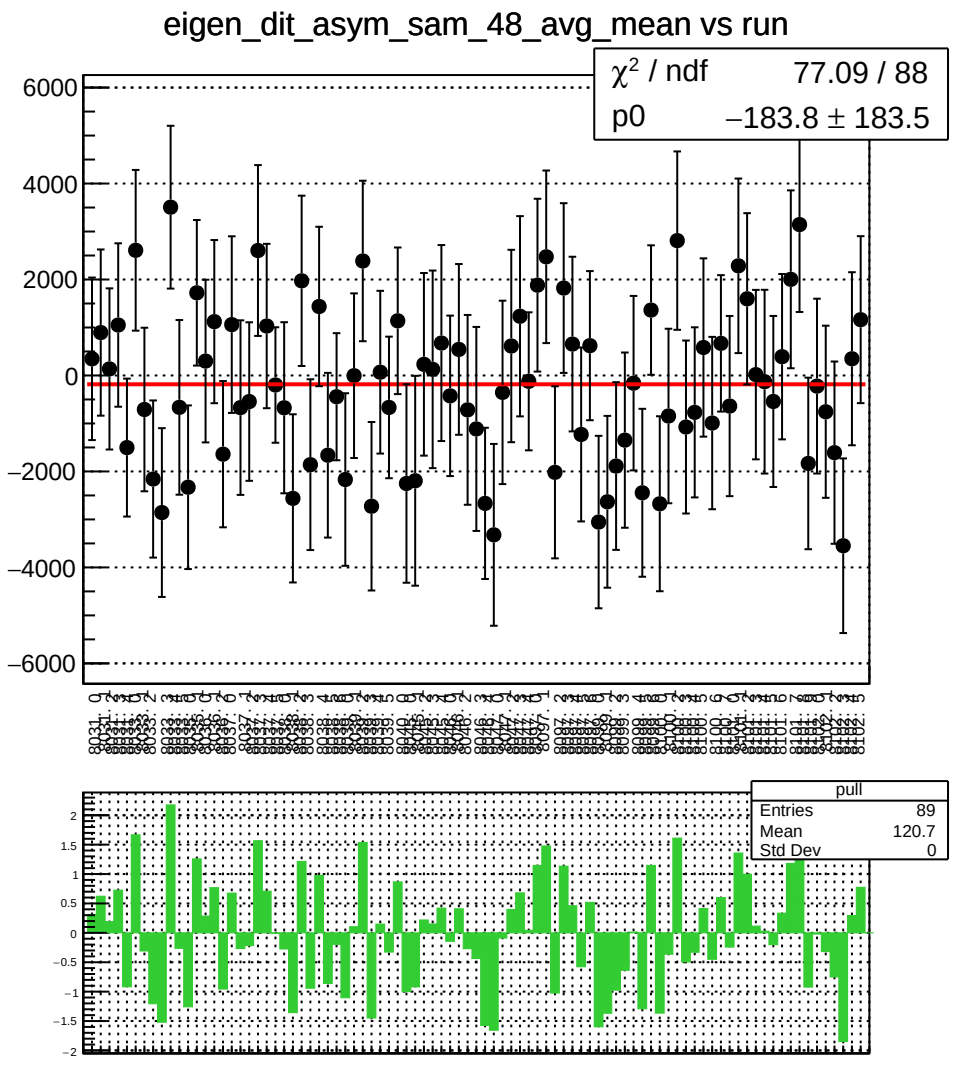

pull1D
Entries 89
Mean −0.008335
Std Dev 0.9306
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

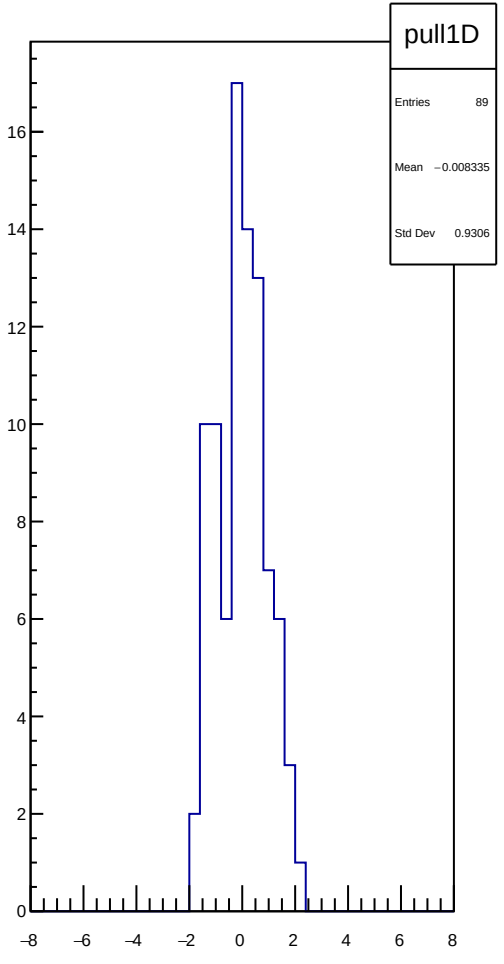

dit_asym_sam_48_avg_rms vs run
χ² / ndf 6504 / 88
p0 171.2 ± 0.1298
210
200
190
180
170
160
150

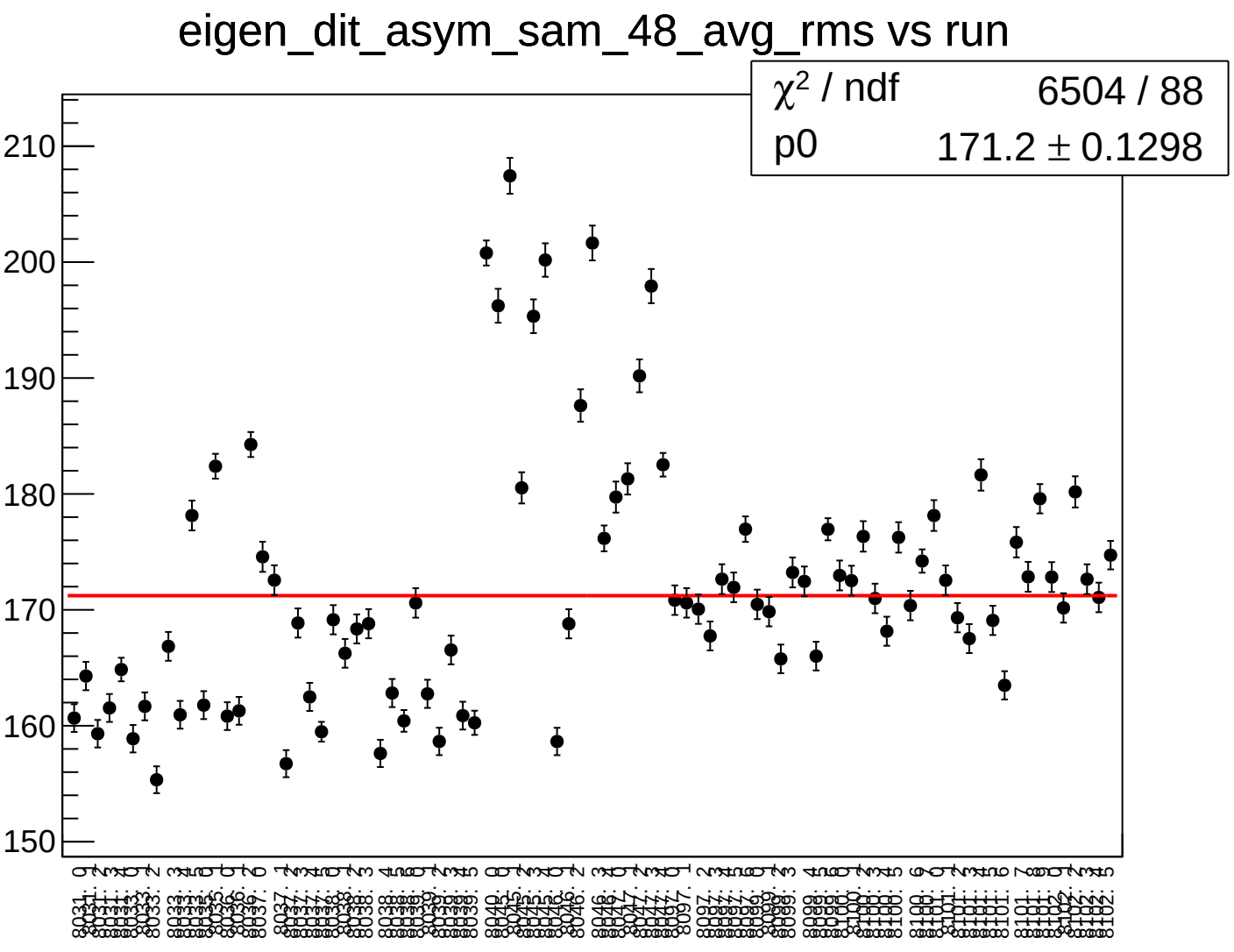

asym_sam_48_avg_dit_correction_mean vs run
χ² / ndf 59.09 / 88
p0 −2553 ± 2235
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 525.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

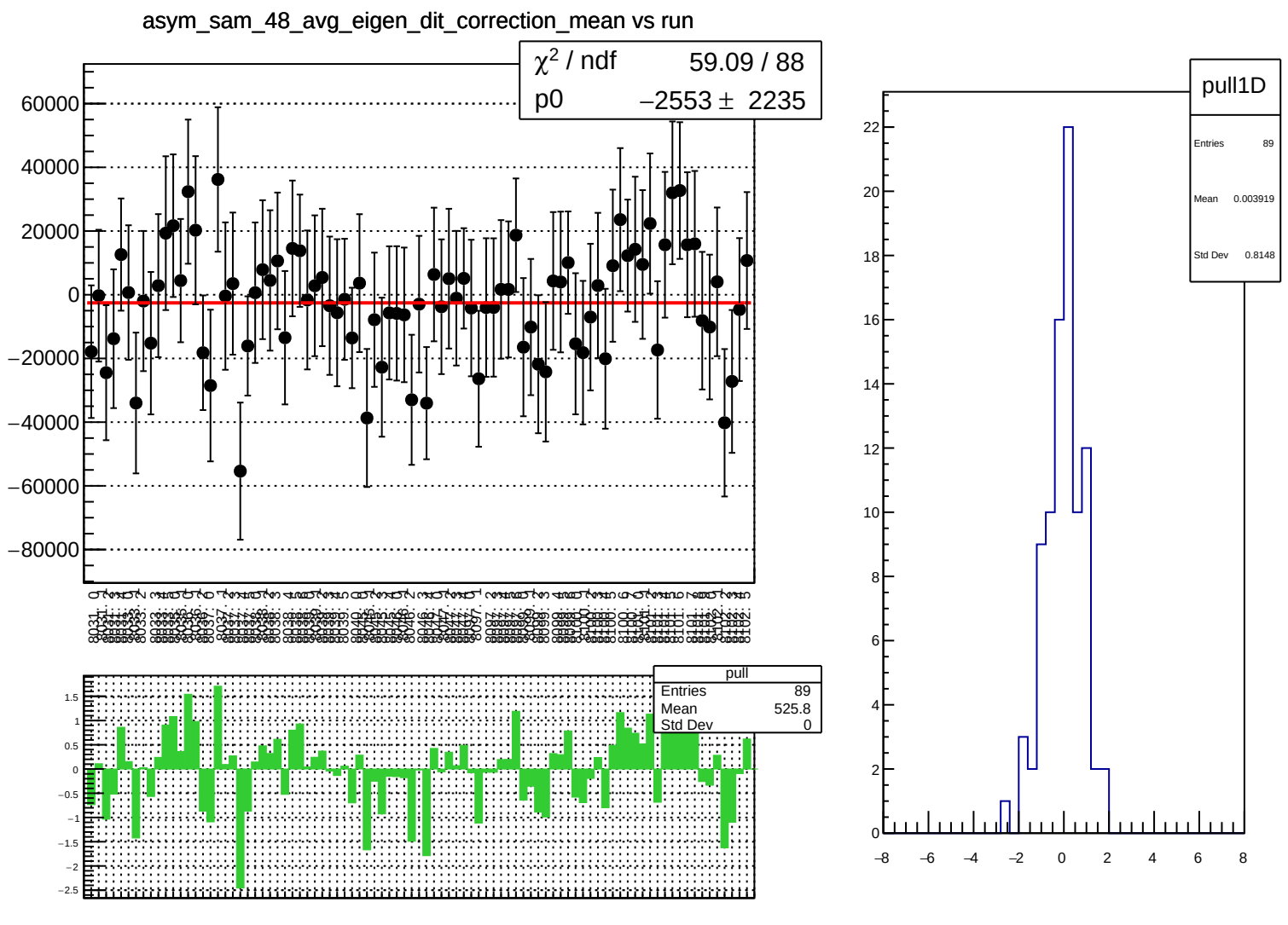

pull1D
Entries 89
Mean 0.003918
Std Dev 0.8148
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

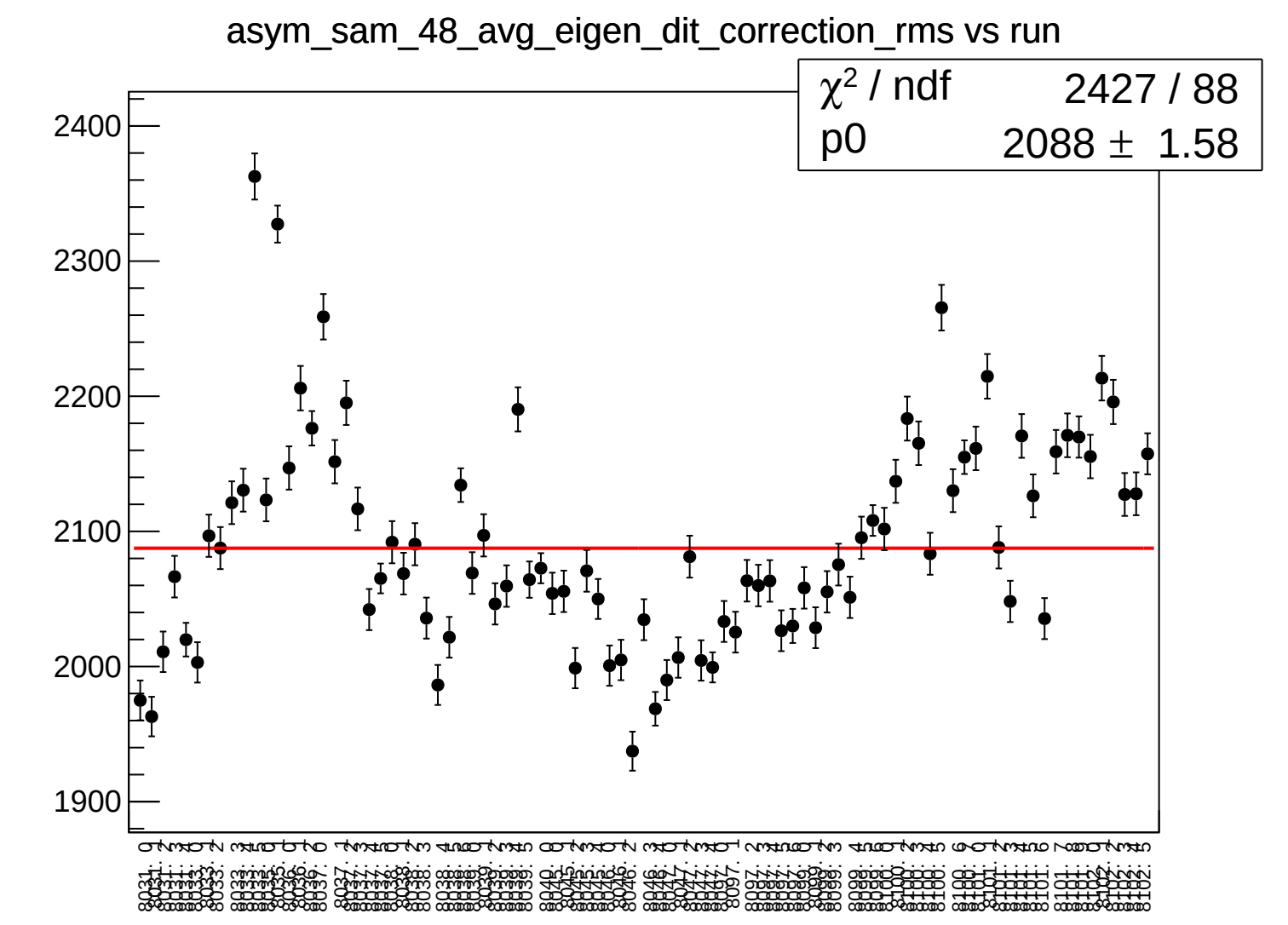

asym_sam_48_avg_dit_correction_rms vs run
χ² / ndf 2427 / 88
p0 2088 ± 1.58
2400
2300
2200
2100
2000
1900

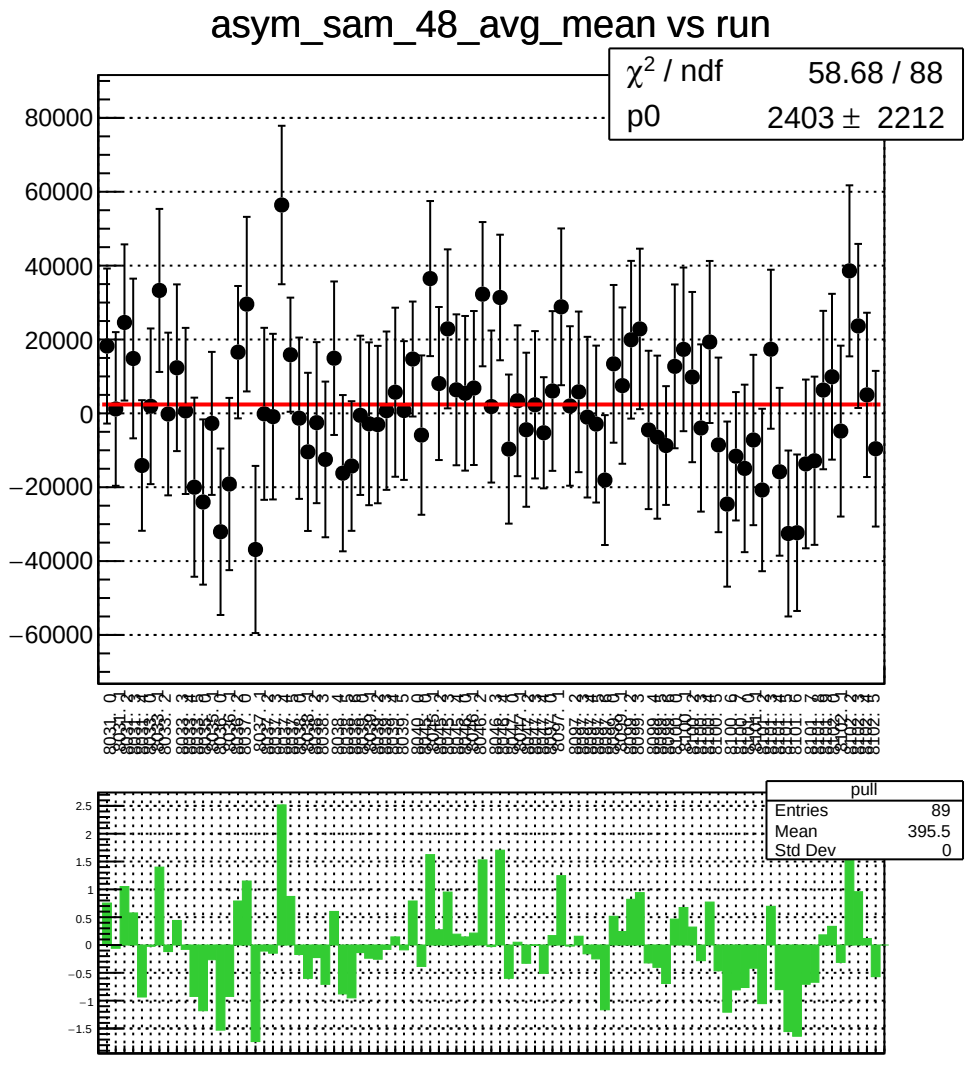

eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 77.09 / 88
p0 −183.8 ± 183.5
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 120.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

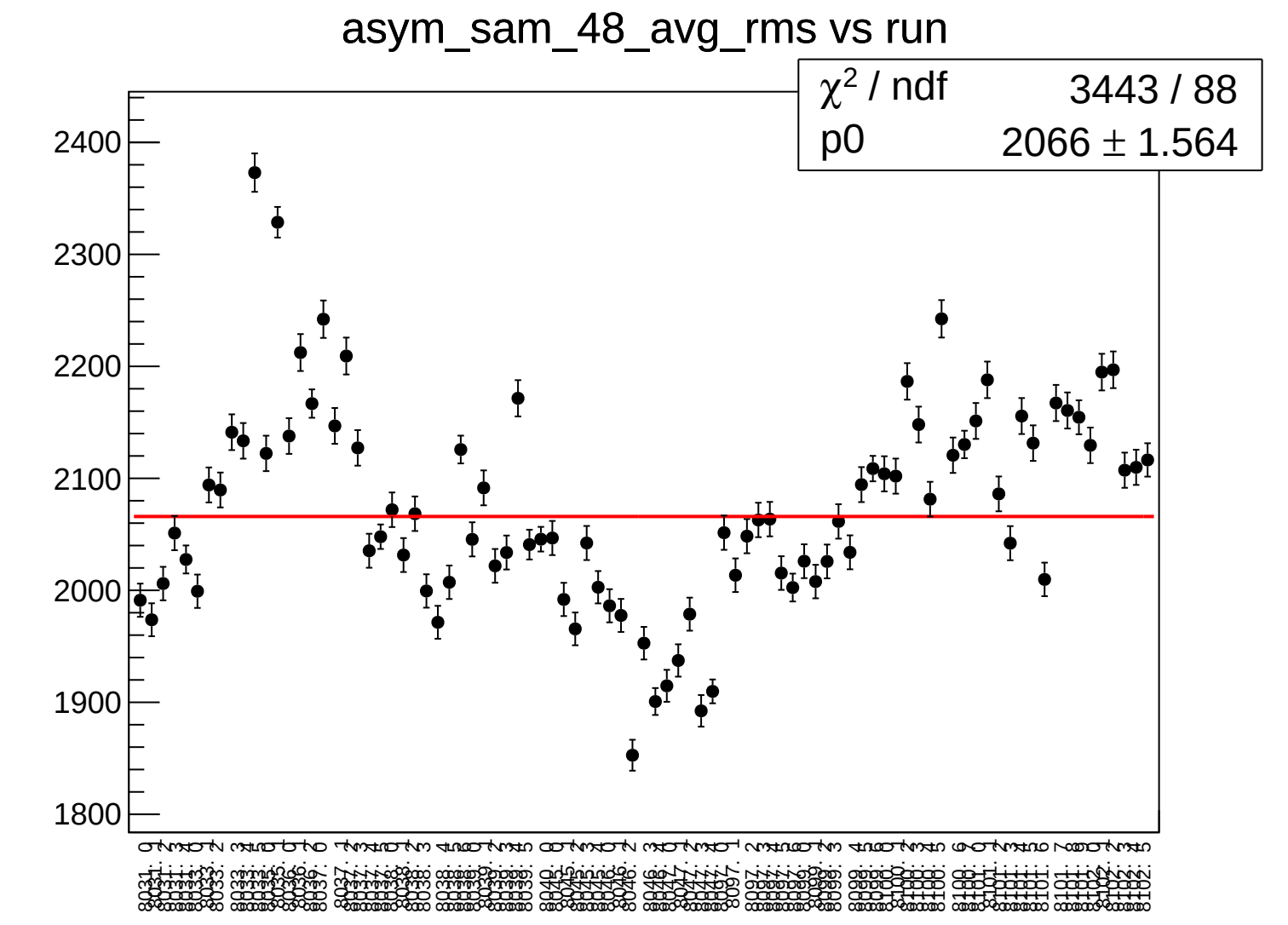

pull1D
Entries 89
Mean −0.008335
Std Dev 0.9306
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

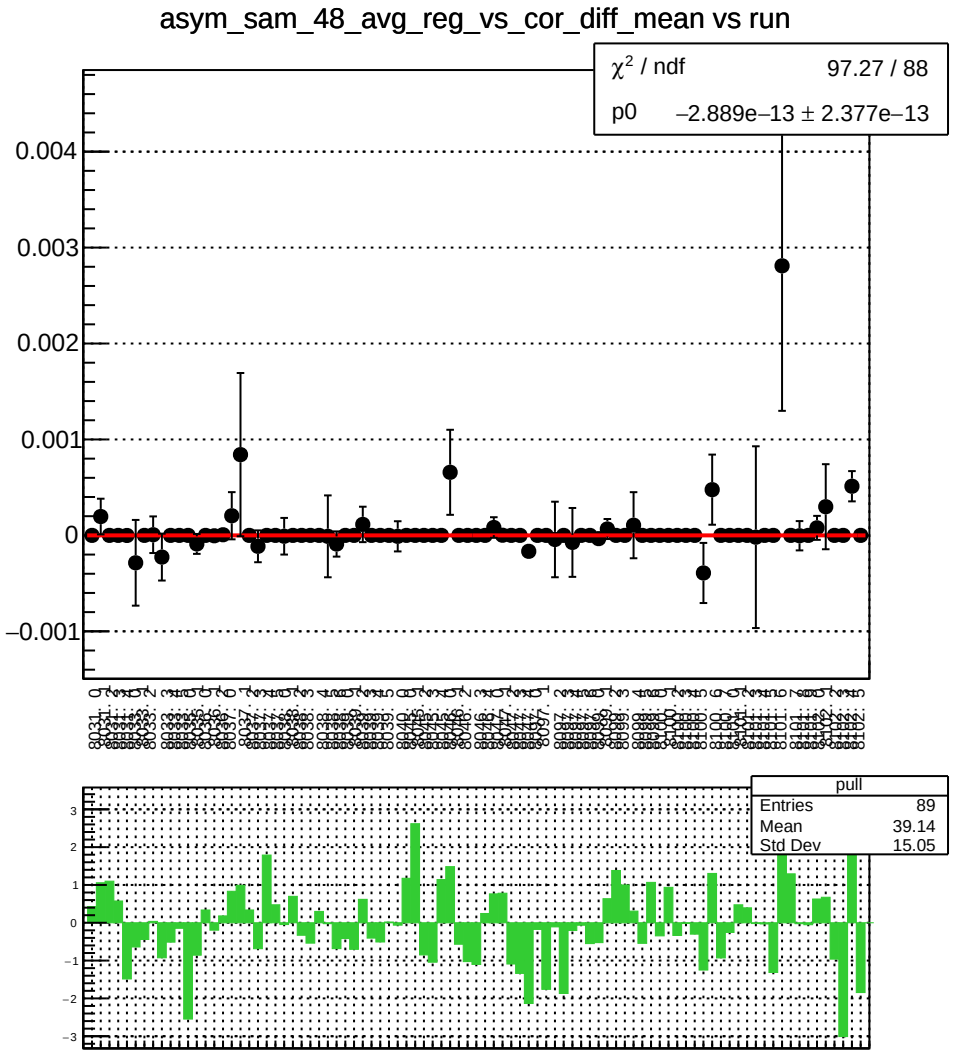

eigen_dit_asym_sam_48_avg_rms vs run
$\chi^2$ / ndf 6504 / 88
p0 171.2 ± 0.1298
210
200
190
180
170
160
150

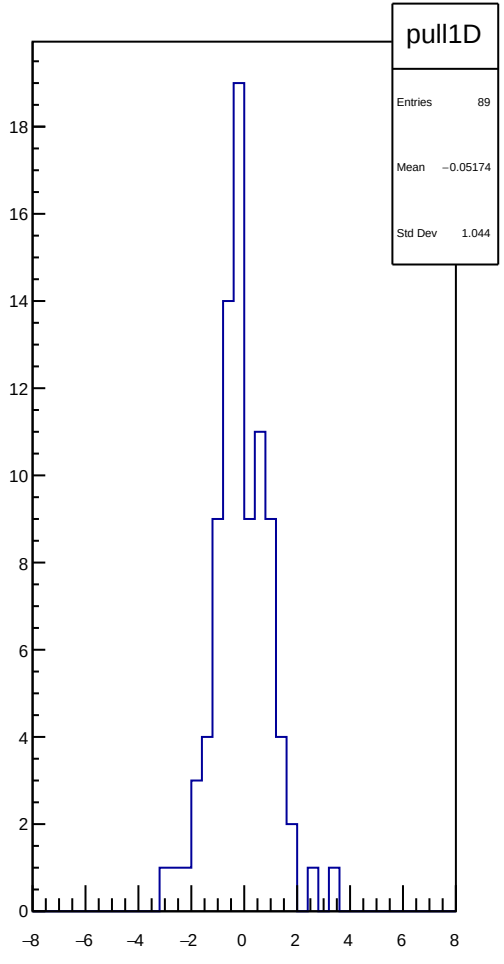

asym_sam_48_avg_eigen_dit_correction_mean vs run
χ² / ndf 59.09 / 88
p0 −2553 ± 2235
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 525.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 89
Mean 0.003919
Std Dev 0.8148
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

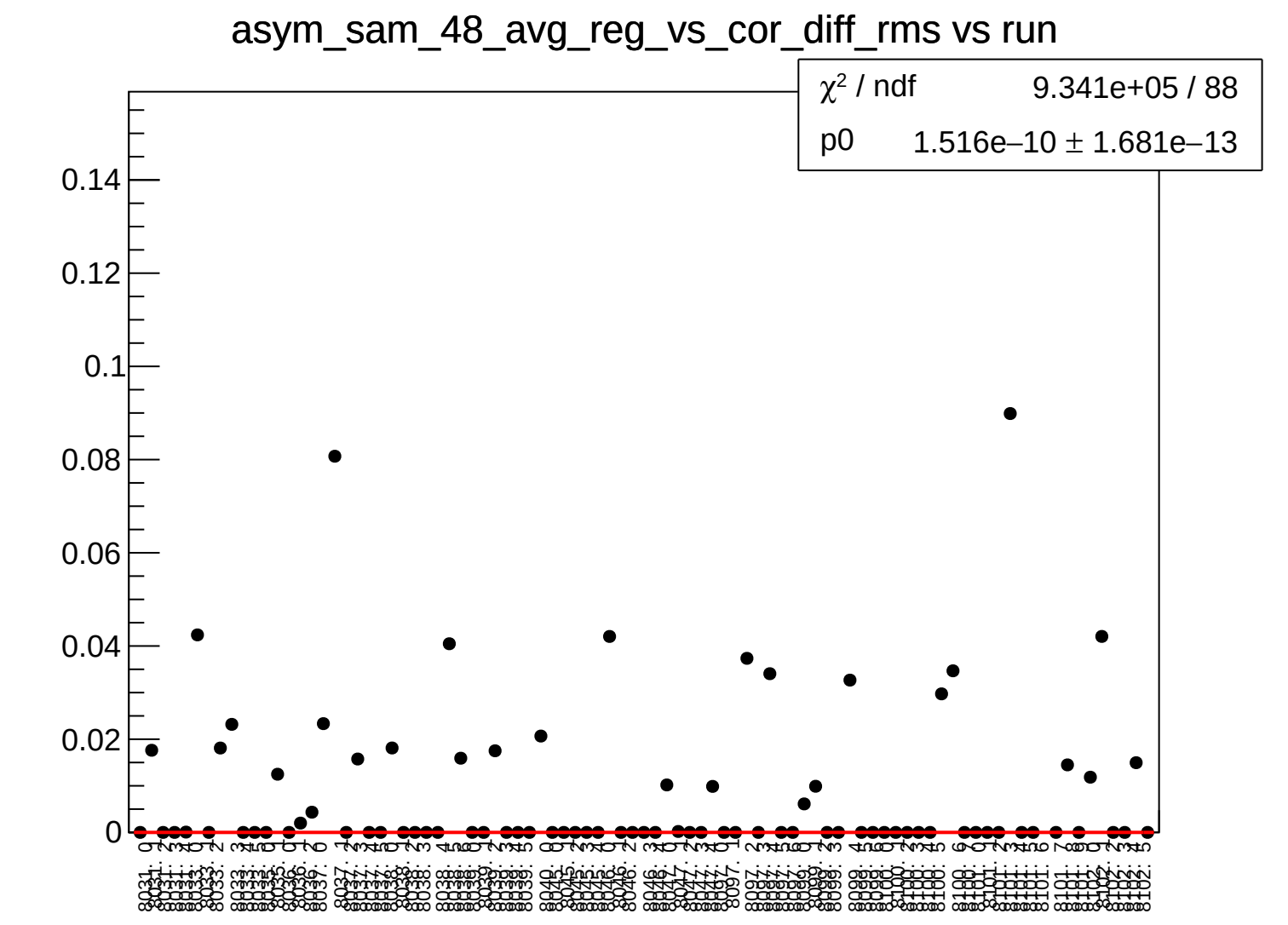

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 2427 / 88
p0 2088 ± 1.58
2400
2300
2200
2100
2000
1900

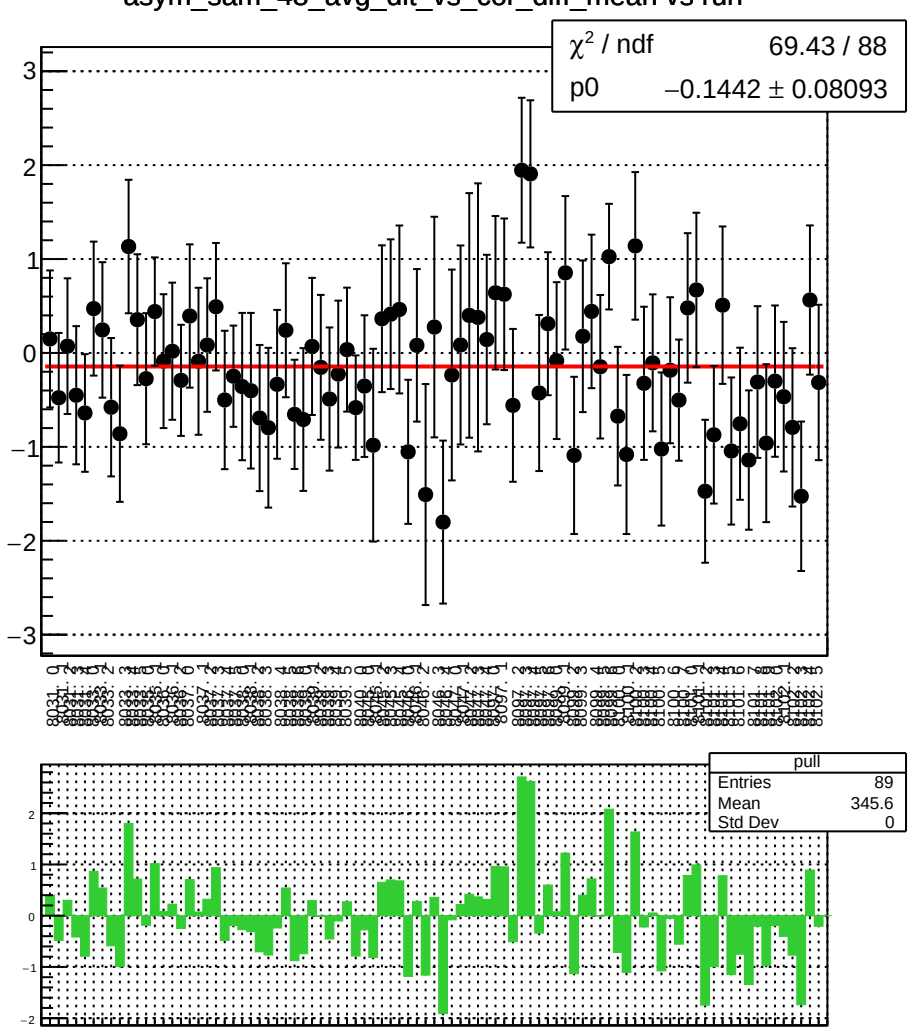

asym_sam_48_avg_mean vs run
χ² / ndf 58.68 / 88
p0 2403 ± 2212
pull
Entries 89
Mean 395.5
Std Dev 0
pull1D
Entries 89
Mean −0.005569
Std Dev 0.812

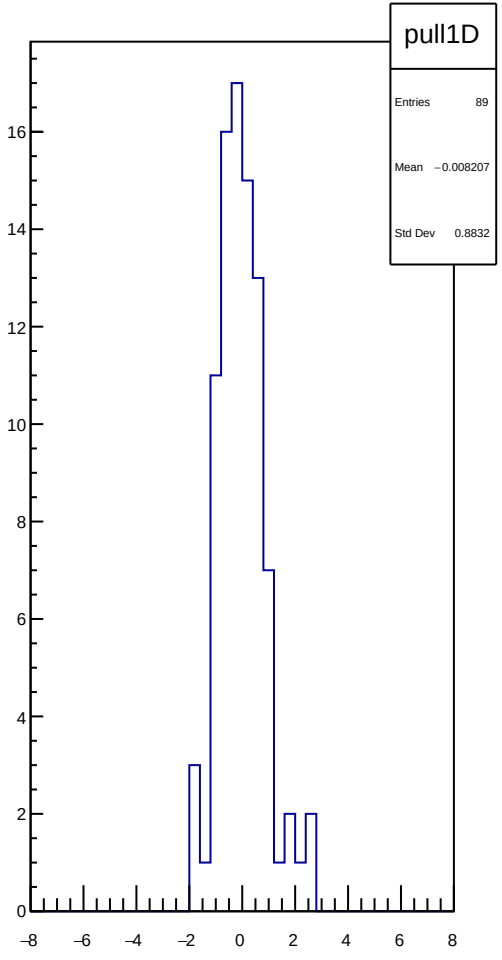

asym_sam_48_avg_rms vs run
χ² / ndf 3443 / 88
p0 2066 ± 1.564
2400
2300
2200
2100
2000
1900
1800

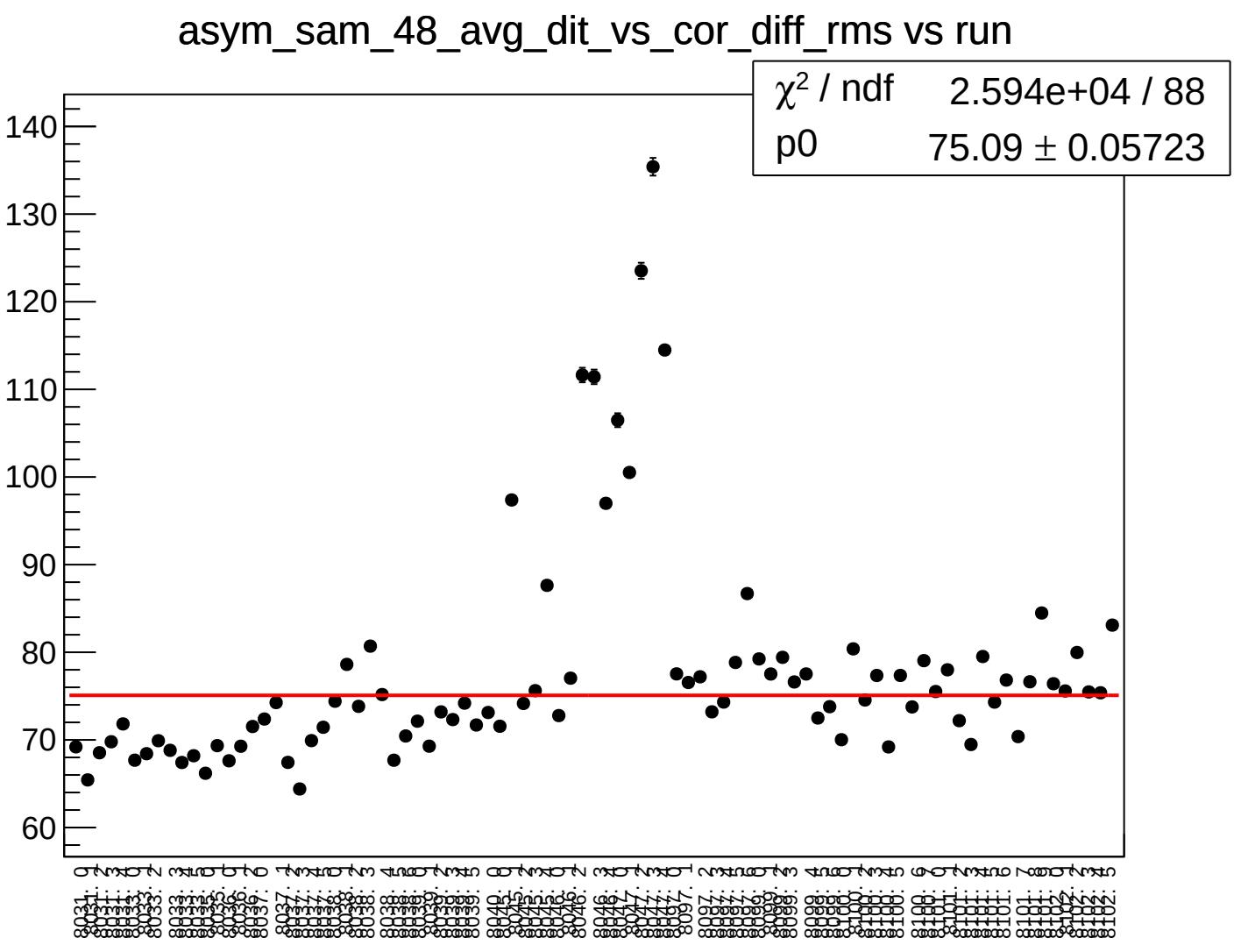

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 97.27 / 88
p0 −2.889e−13 ± 2.377e−13
0.004
0.003
0.002
0.001
0
−0.001
pull
Entries 89
Mean 39.14
Std Dev 15.05
3
2
1
0
−1
−2
−3

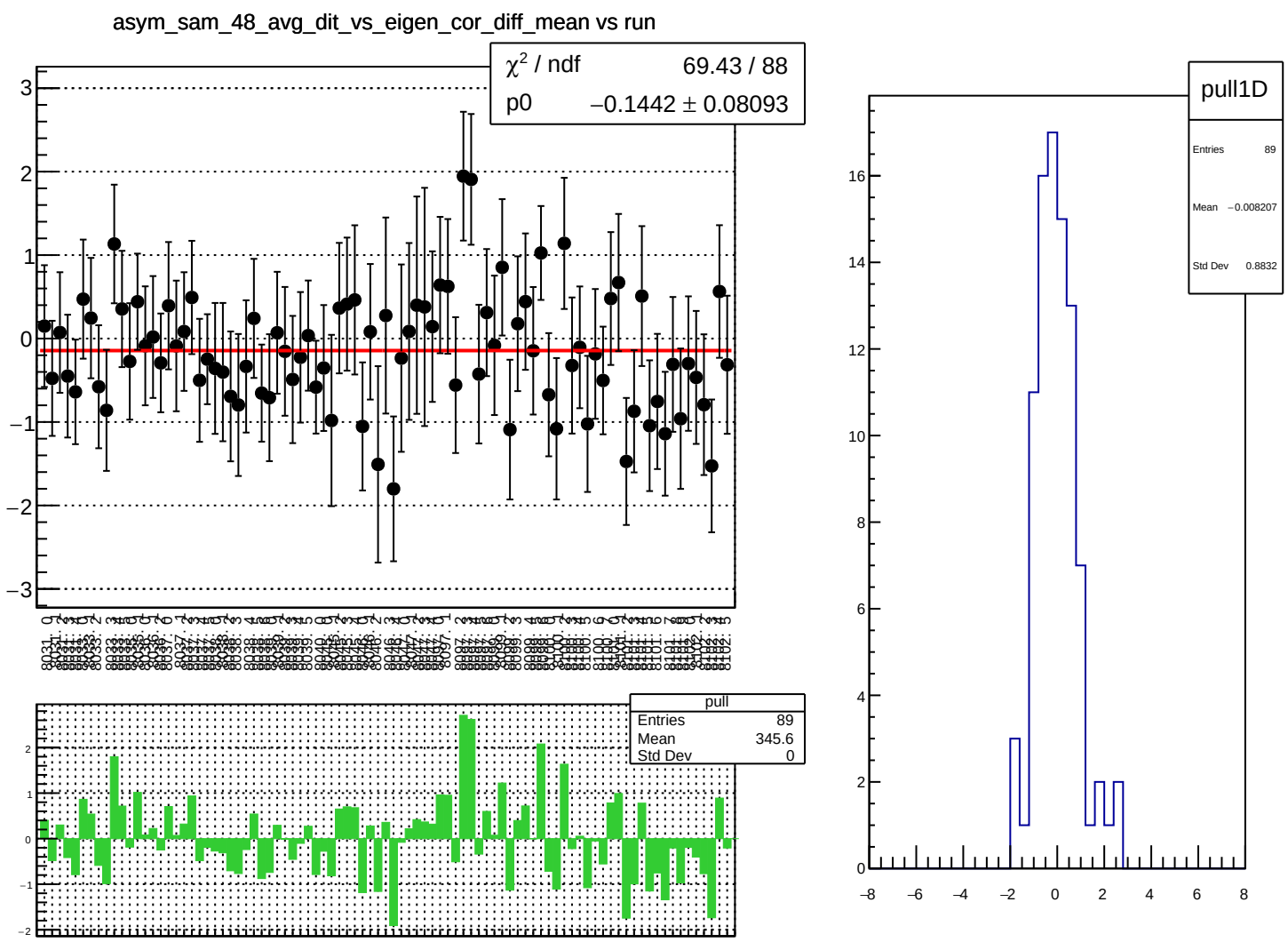

pull1D
Entries 89
Mean −0.05174
Std Dev 1.044
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

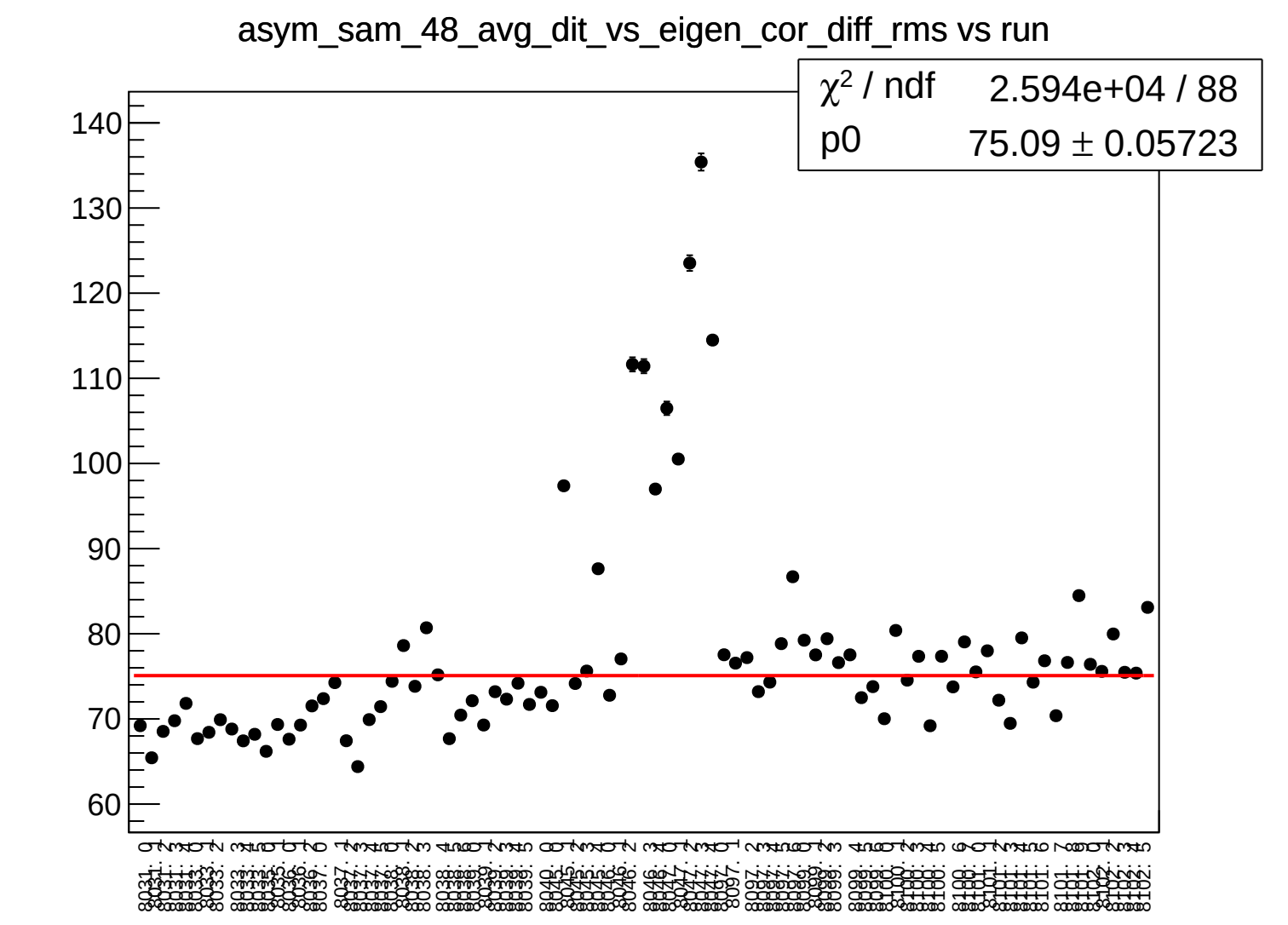

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.341e+05 / 88
p0 1.516e−10 ± 1.681e−13
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

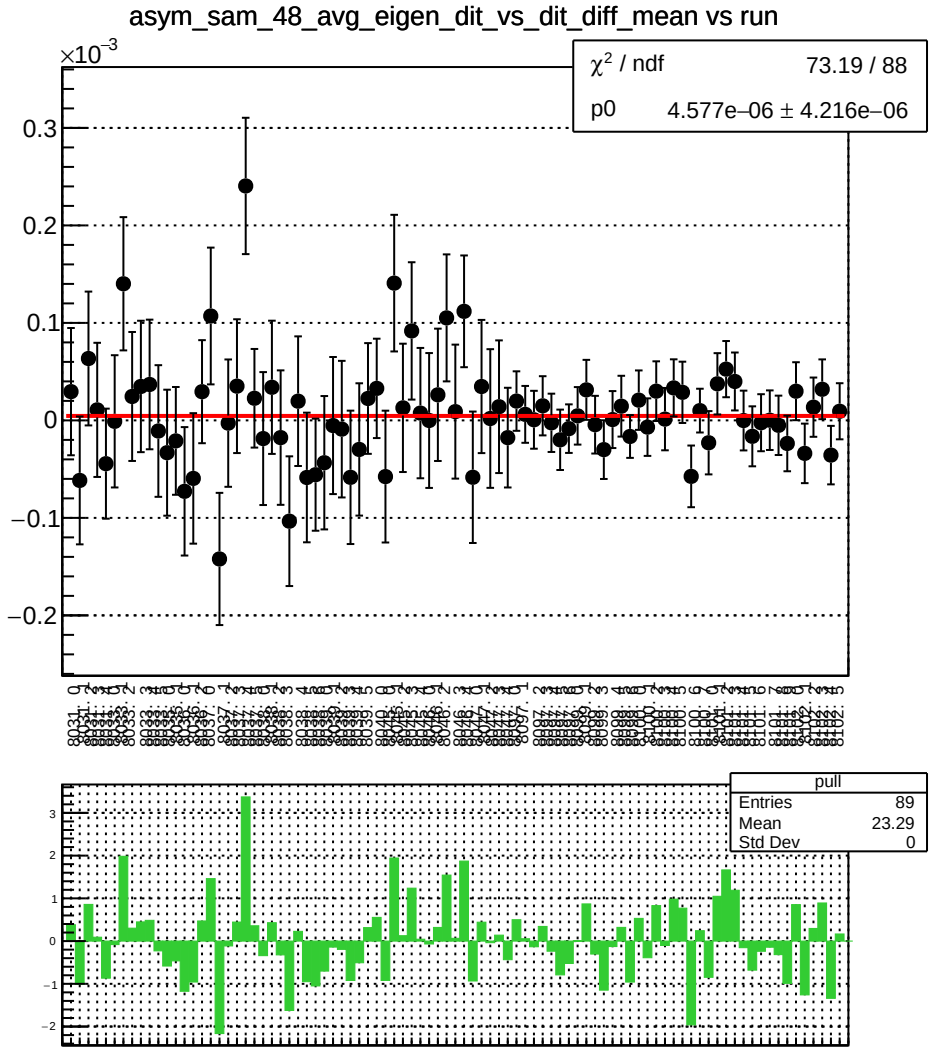

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 69.43 / 88
p0 −0.1442 ± 0.08093
pull
Entries 89
Mean 345.6
Std Dev 0

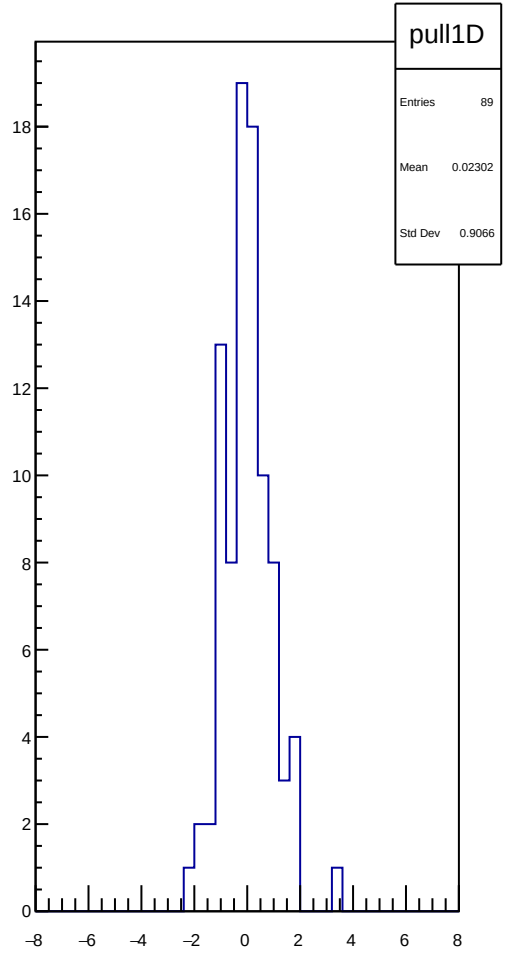

pull1D
Entries 89
Mean −0.008207
Std Dev 0.8832

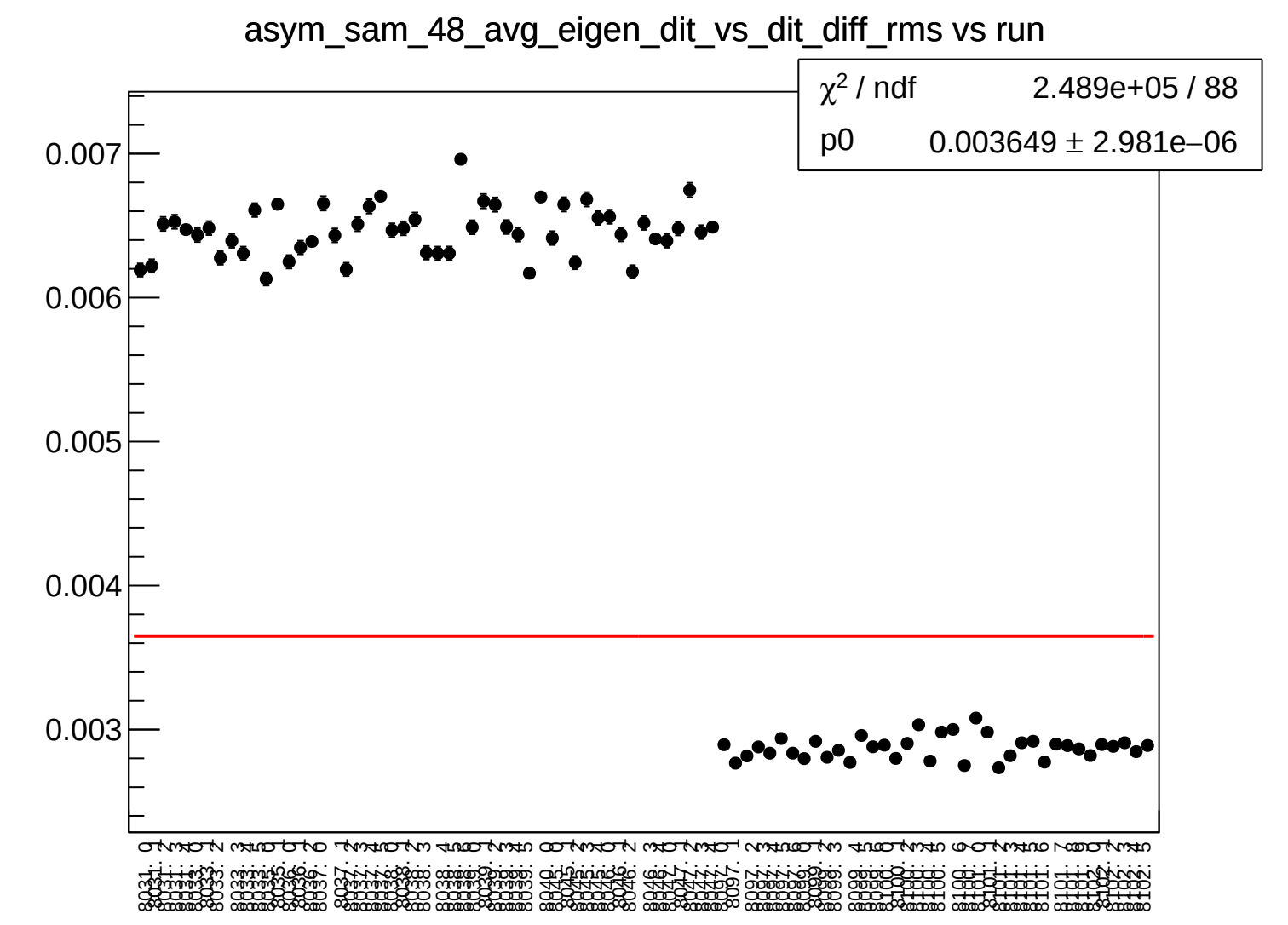

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.594e+04 / 88
p0 75.09 ± 0.05723
140
130
120
110
100
90
80
70
60

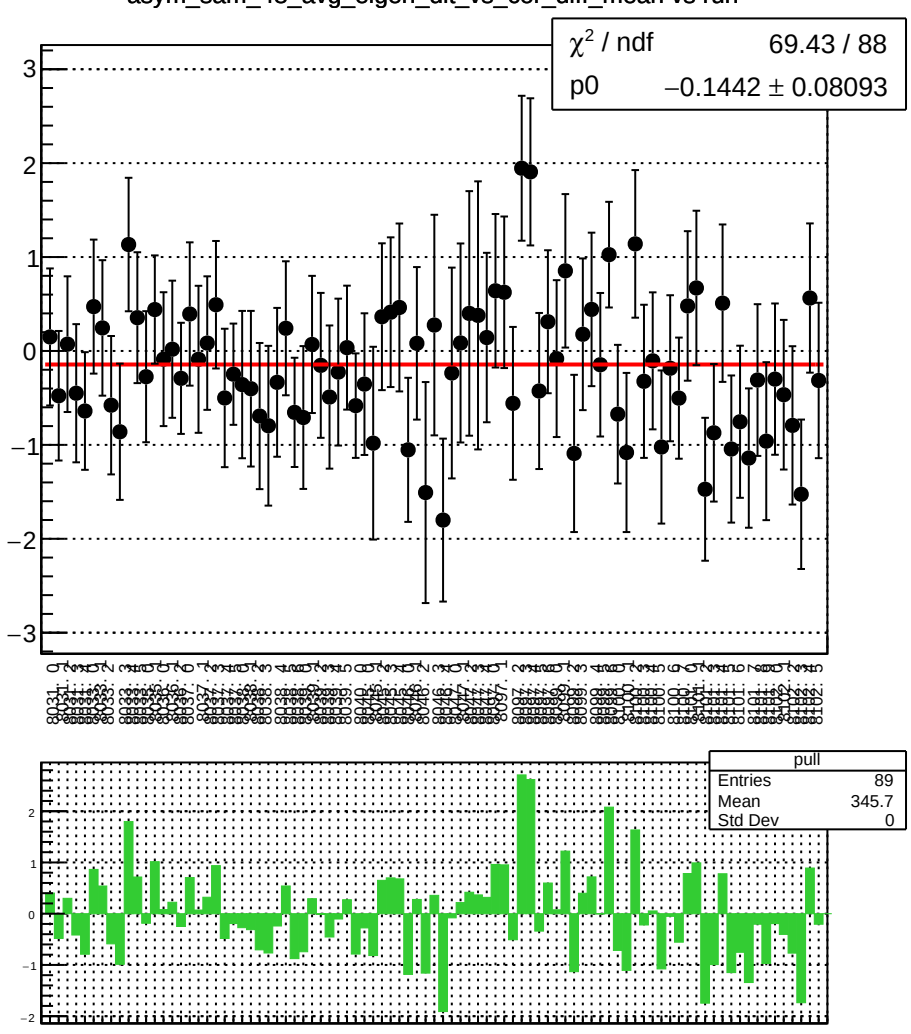

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.43 / 88
p0 −0.1442 ± 0.08093
pull
Entries 89
Mean 345.6
Std Dev 0
pull1D
Entries 89
Mean −0.008207
Std Dev 0.8832

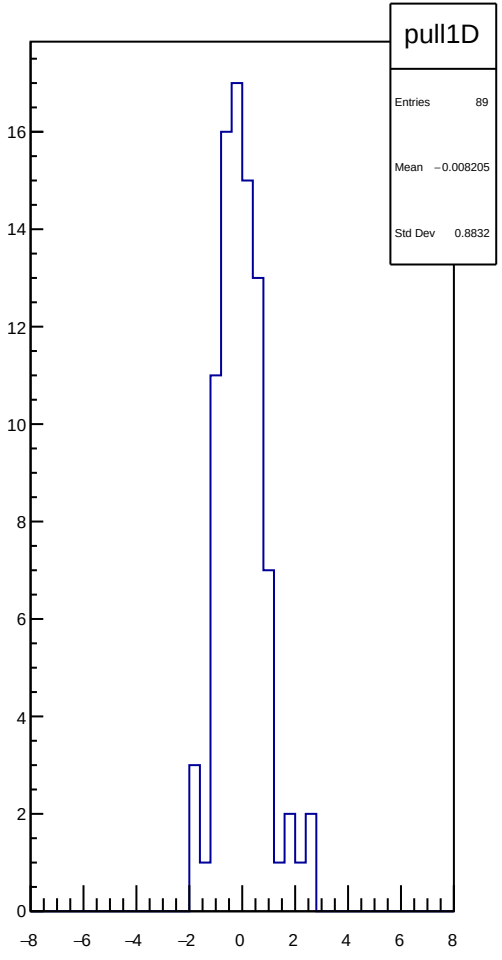

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.594e+04 / 88
p0 75.09 ± 0.05723
140
130
120
110
100
90
80
70
60

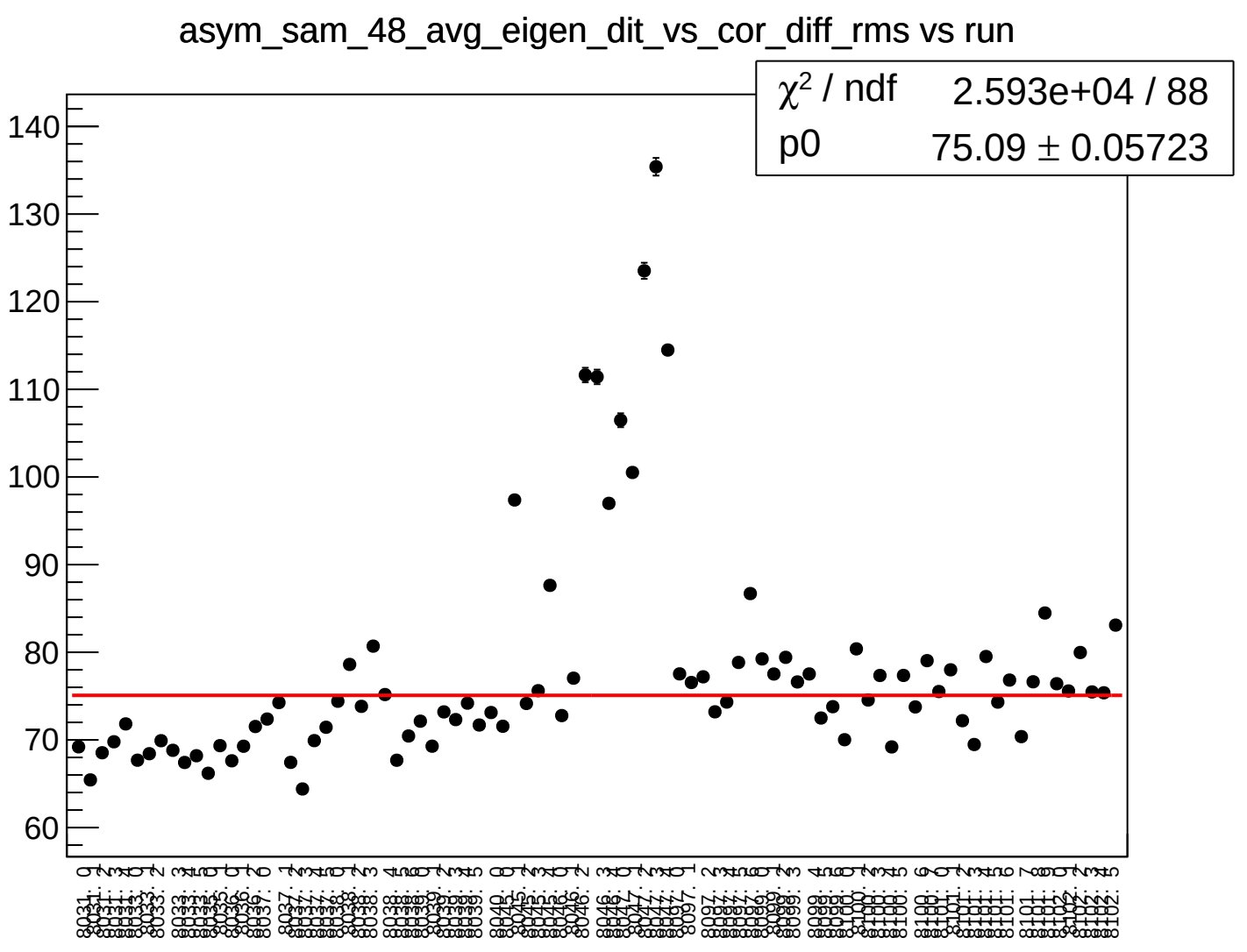

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.19 / 88
p0 4.577e−06 ± 4.216e−06
0.3
0.2
0.1
0
−0.1
−0.2
pull
Entries 89
Mean 23.29
Std Dev 0
3
2
1
0
−1
−2

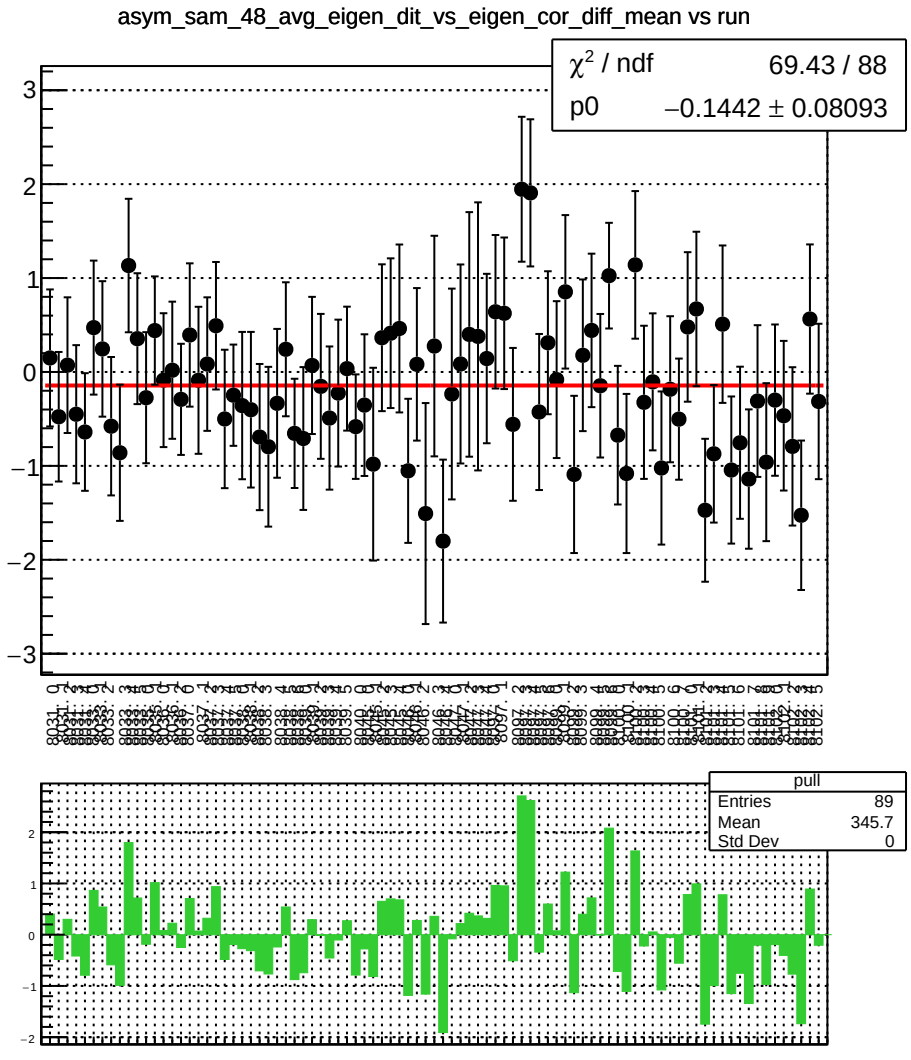

pull1D
Entries 89
Mean 0.02302
Std Dev 0.9066
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

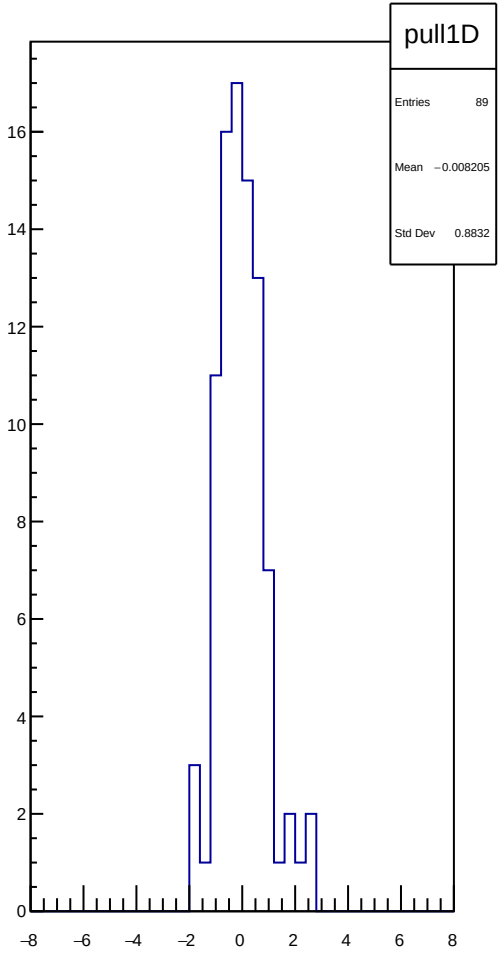

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.489e+05 / 88
p0 0.003649 ± 2.981e−06
0.007
0.006
0.005
0.004
0.003

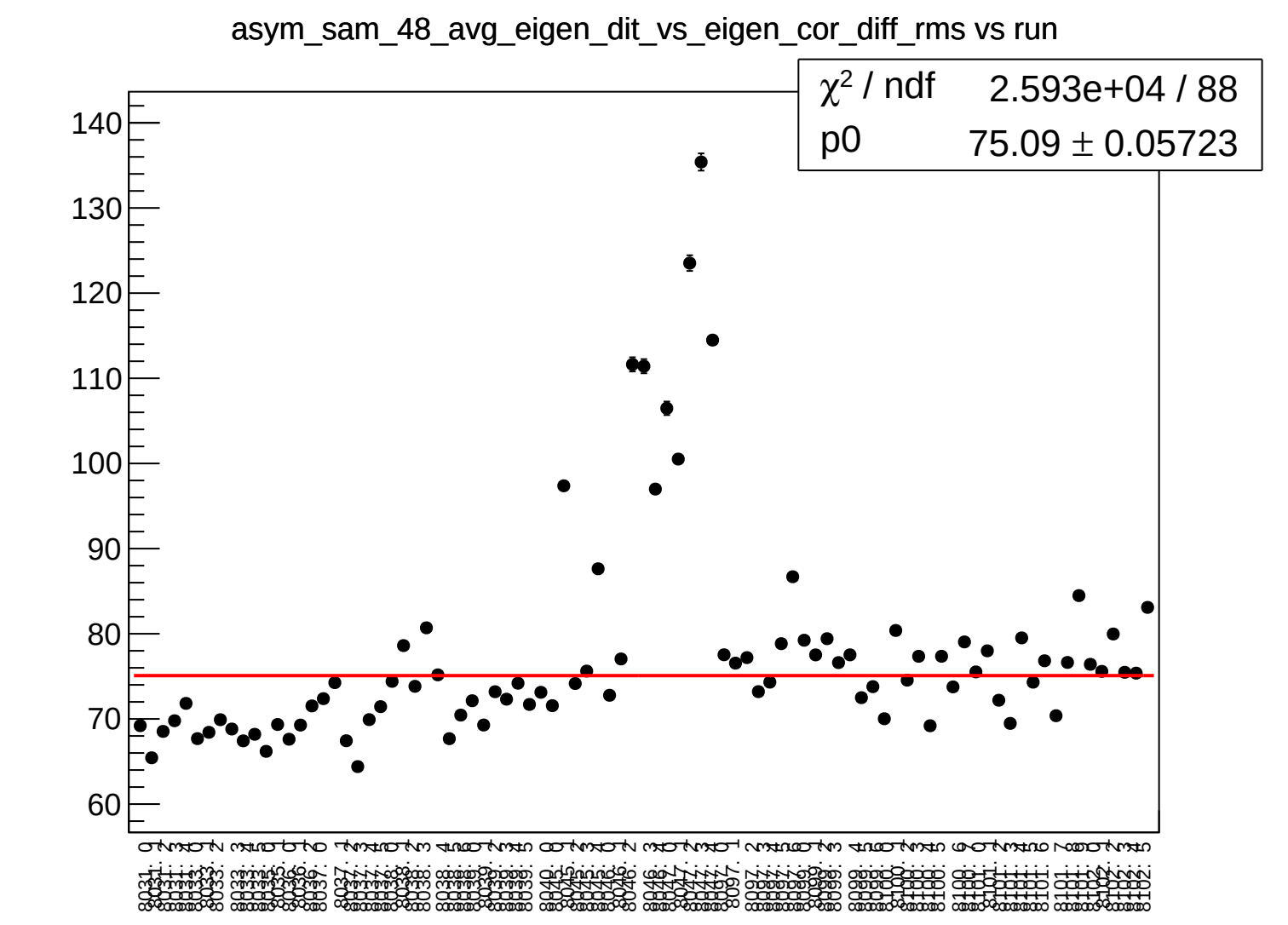

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 69.43 / 88
p0 −0.1442 ± 0.08093
pull
Entries 89
Mean 345.7
Std Dev 0

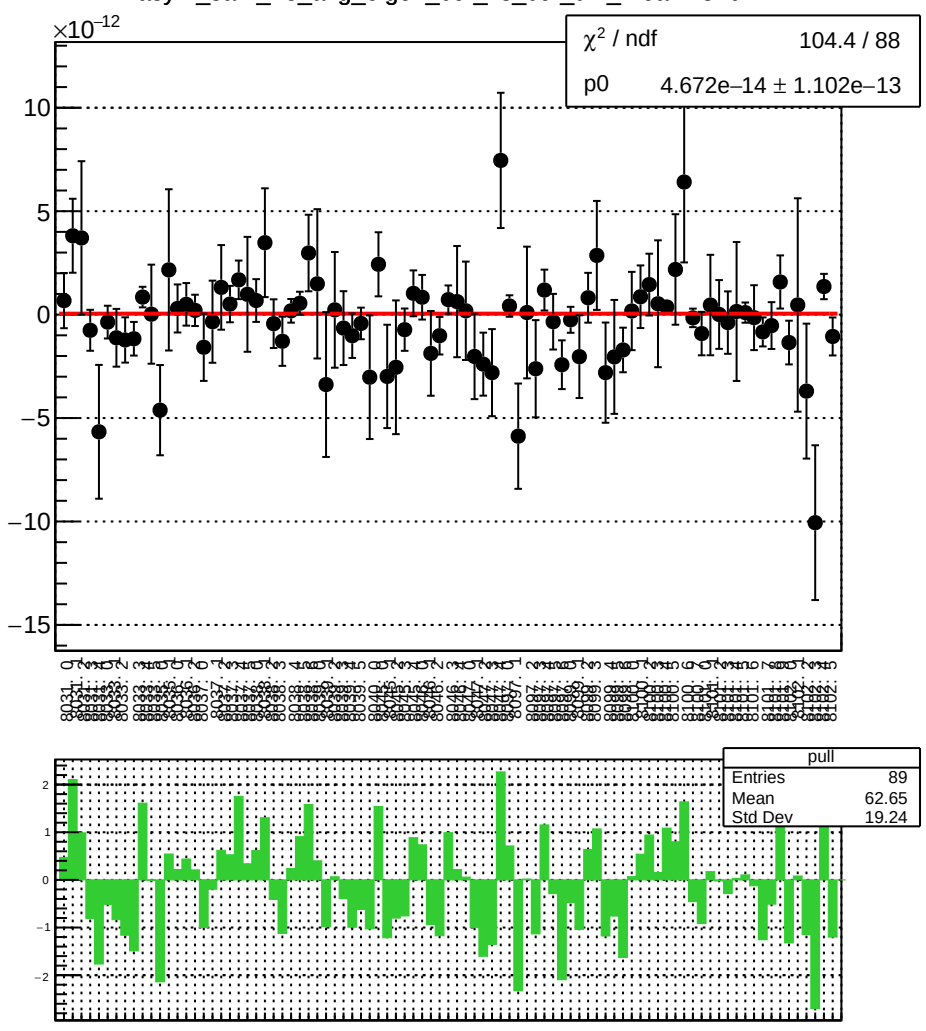

pull1D
Entries 89
Mean −0.008205
Std Dev 0.8832

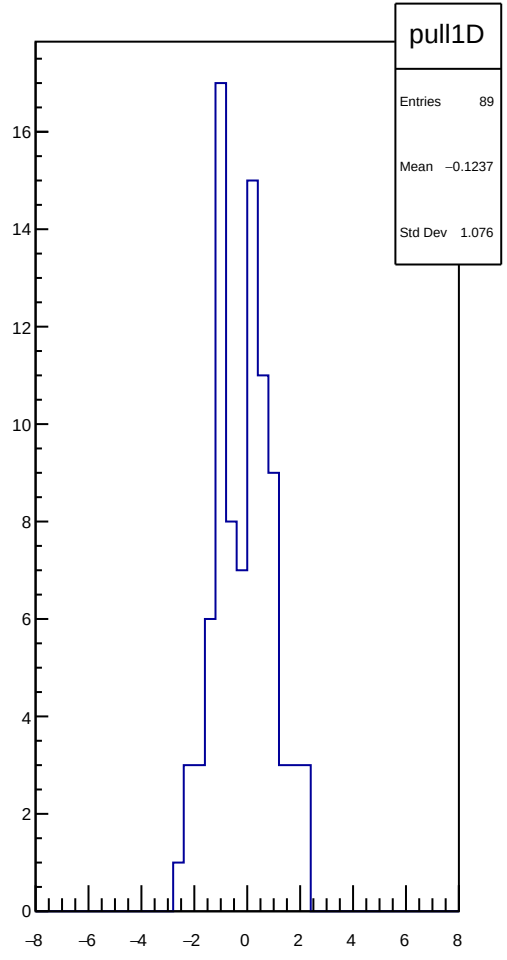

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.593e+04 / 88
p0 75.09 ± 0.05723
140
130
120
110
100
90
80
70
60

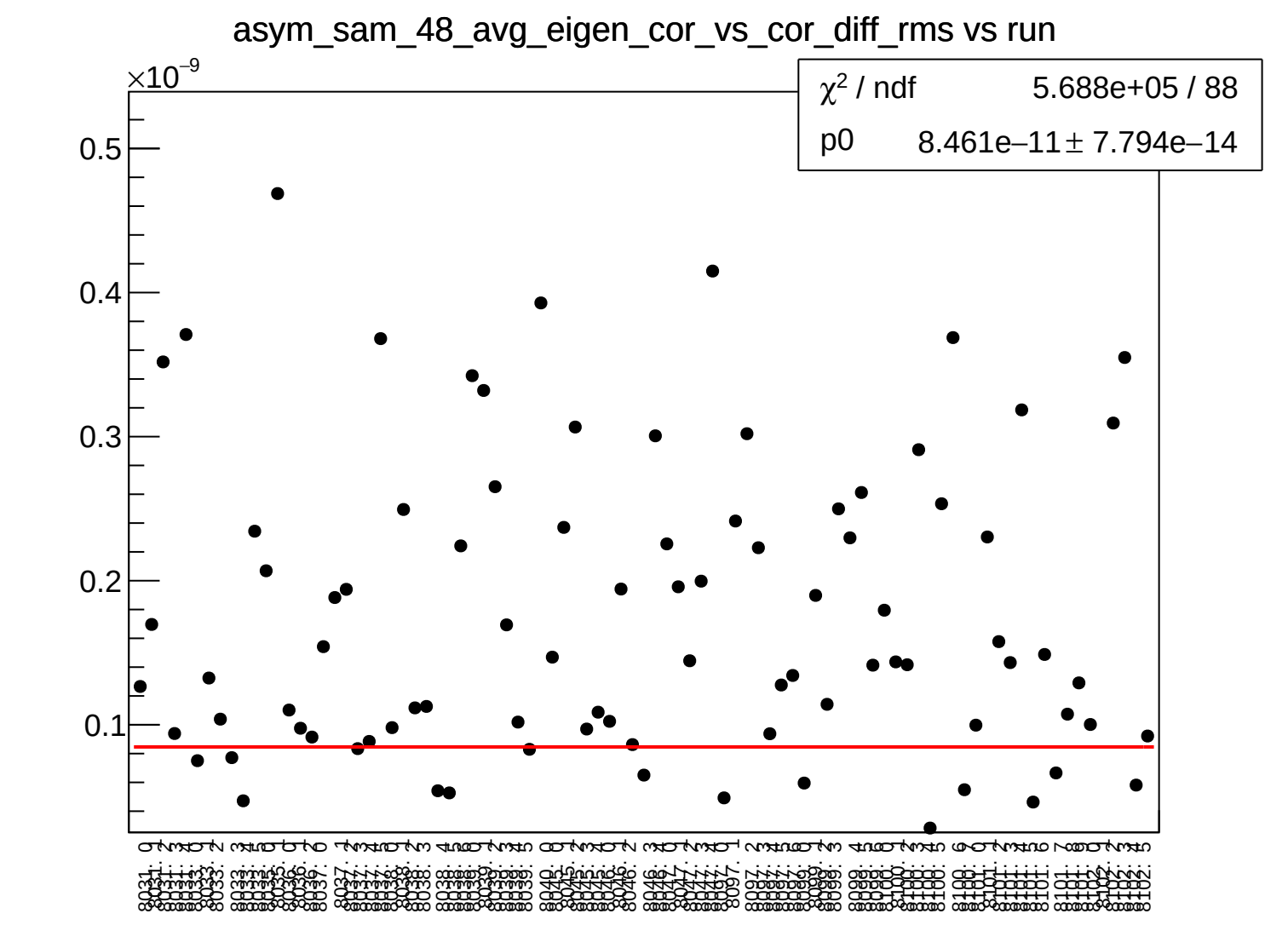

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.43 / 88
p0 −0.1442 ± 0.08093
pull
Entries 89
Mean 345.7
Std Dev 0

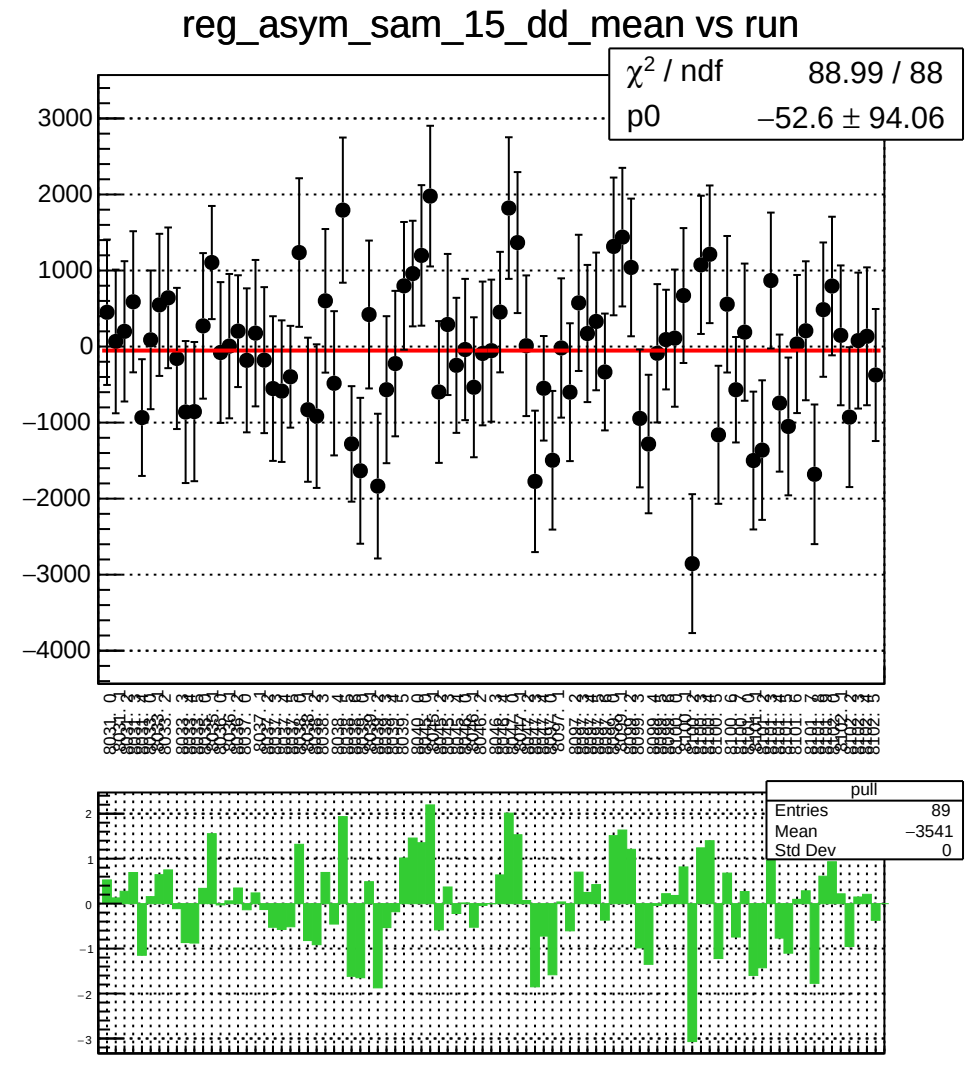

pull1D
Entries 89
Mean −0.008205
Std Dev 0.8832

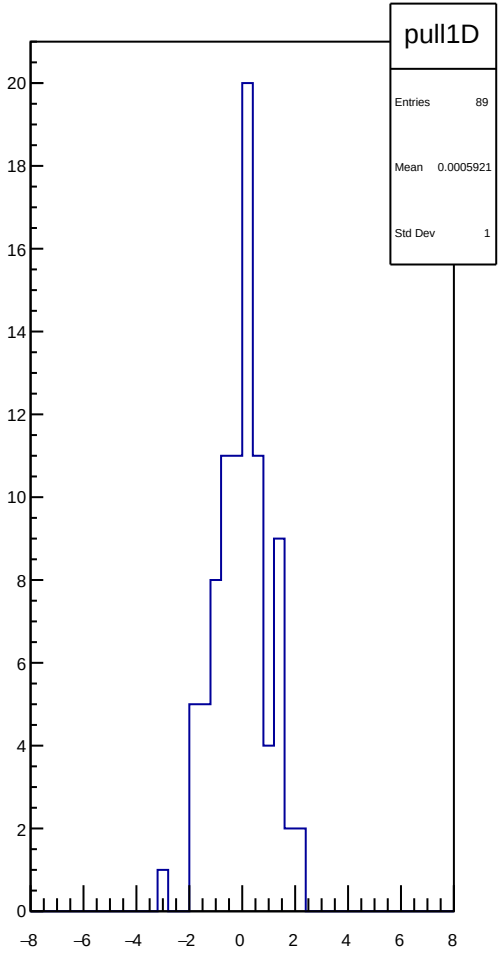

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.593e+04 / 88
p0 75.09 ± 0.05723
140
130
120
110
100
90
80
70
60

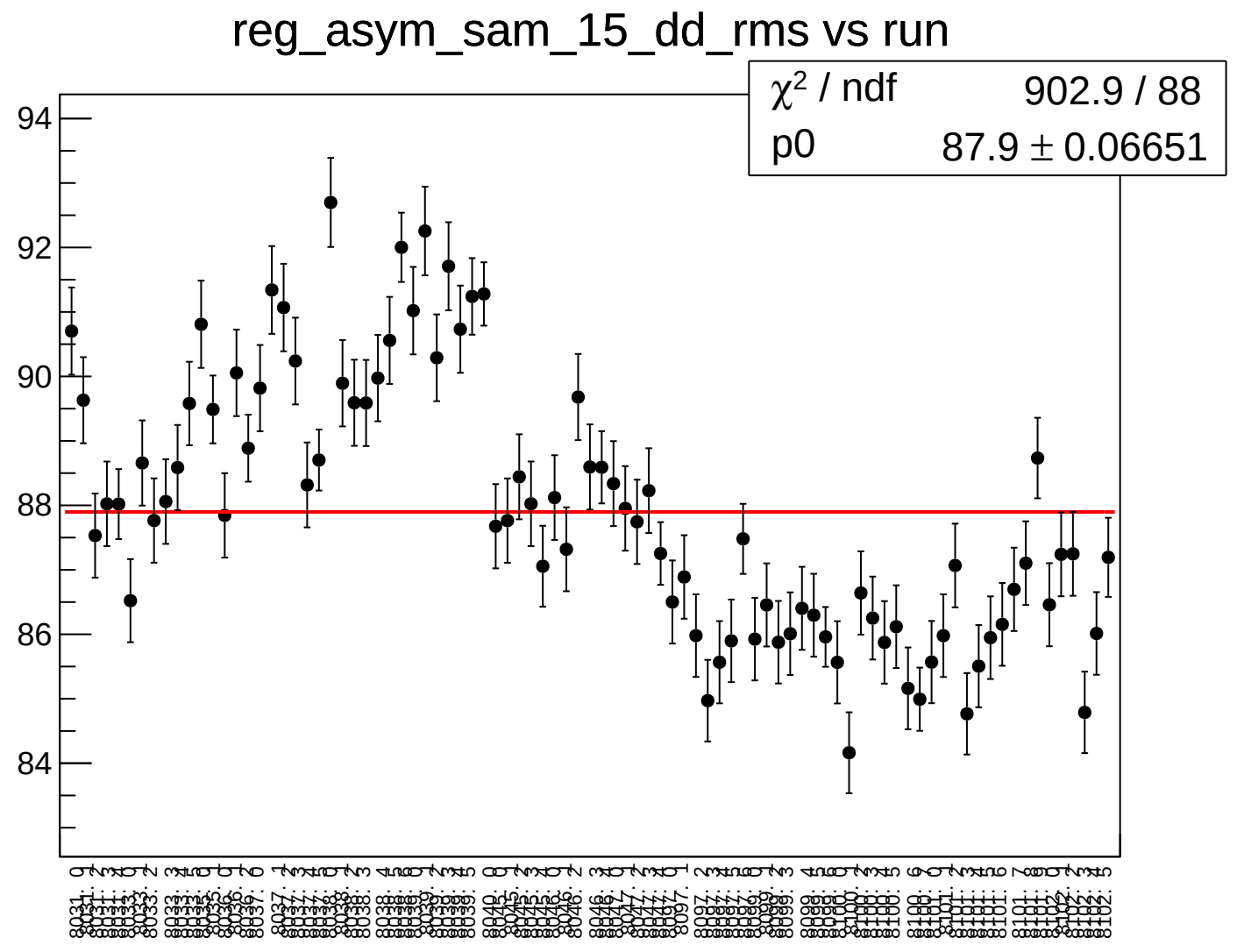

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 104.4 / 88
p0 4.672e−14 ± 1.102e−13
pull
Entries 89
Mean 62.65
Std Dev 19.24

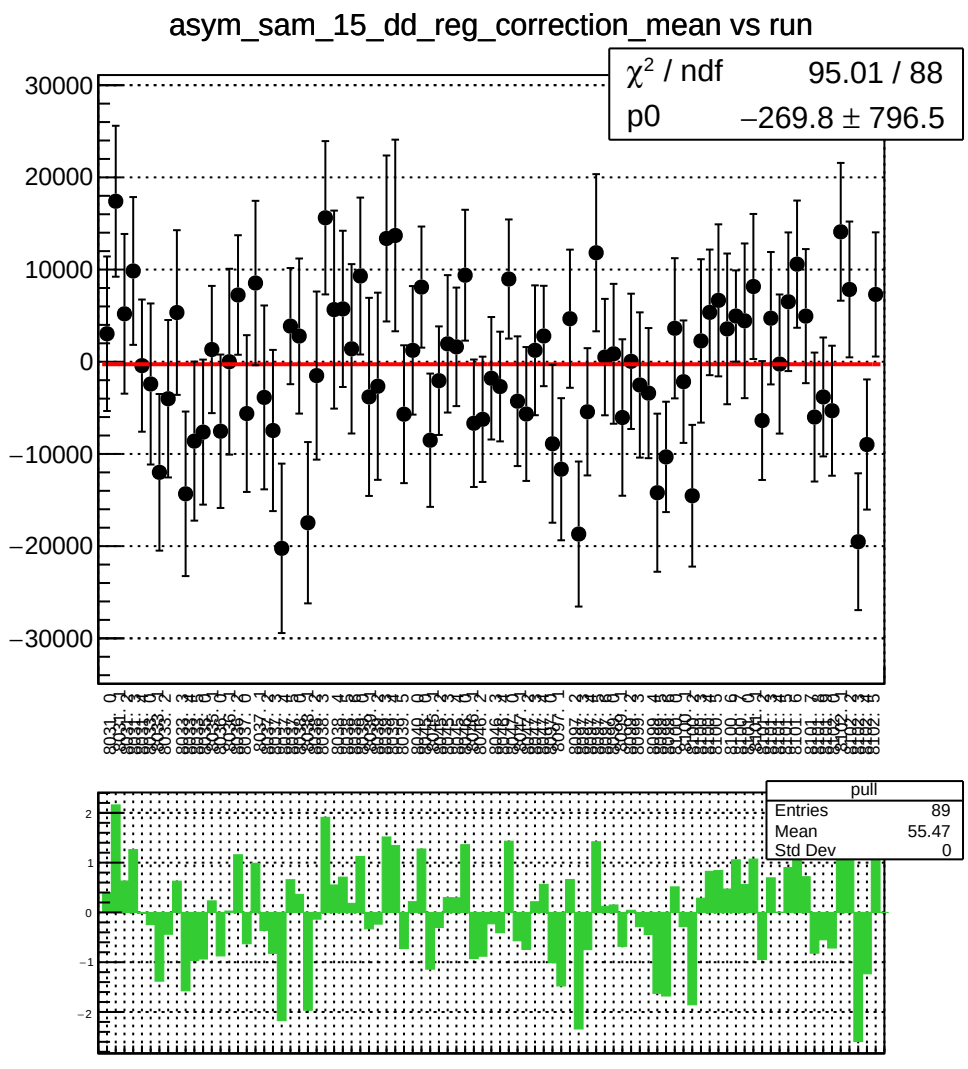

pull1D
Entries 89
Mean −0.1237
Std Dev 1.076

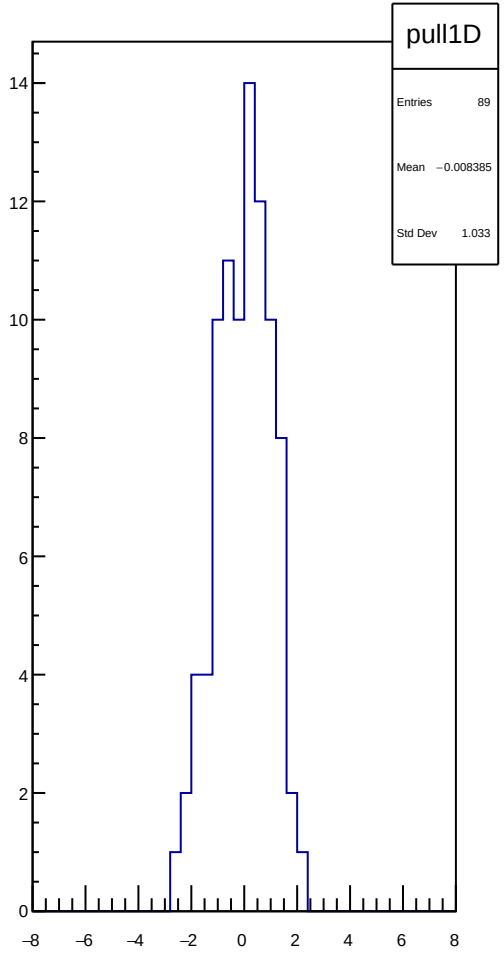

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.688e+05 / 88
p0 8.461e−11 ± 7.794e−14
0.5
0.4
0.3
0.2
0.1

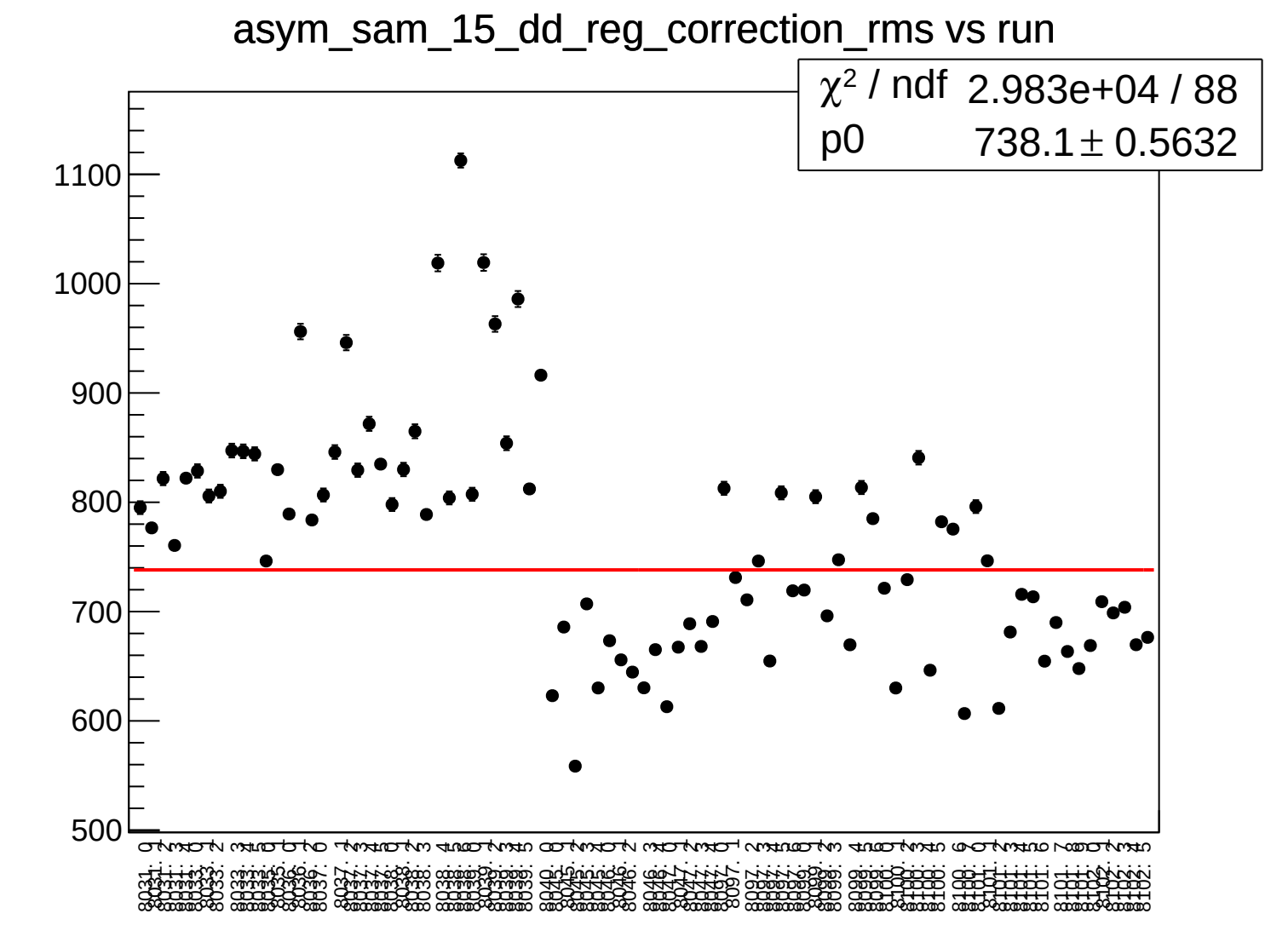

reg_asym_sam_15_dd_mean vs run
χ² / ndf 88.99 / 88
p0 −52.6 ± 94.06
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 89
Mean −3541
Std Dev 0
2
1
0
−1
−2
−3

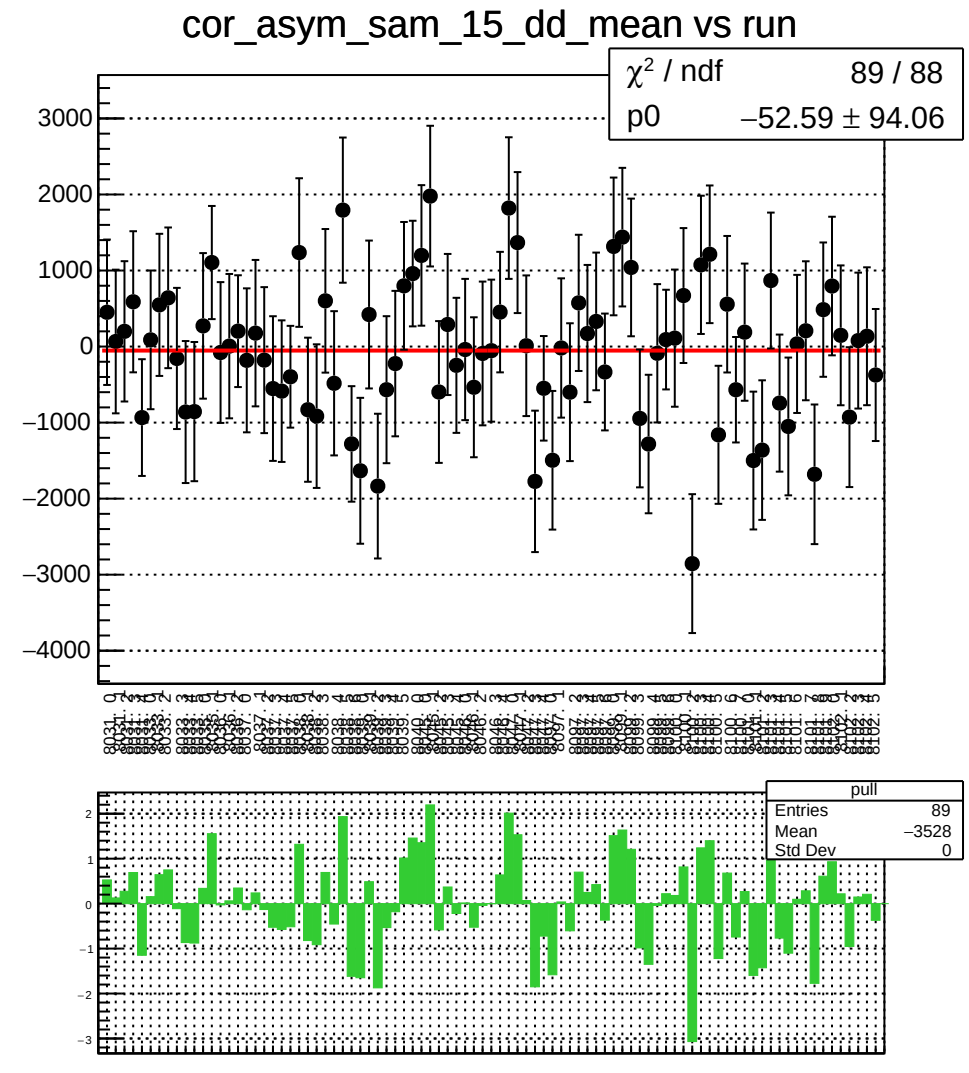

pull1D
Entries 89
Mean 0.0005921
Std Dev 1
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

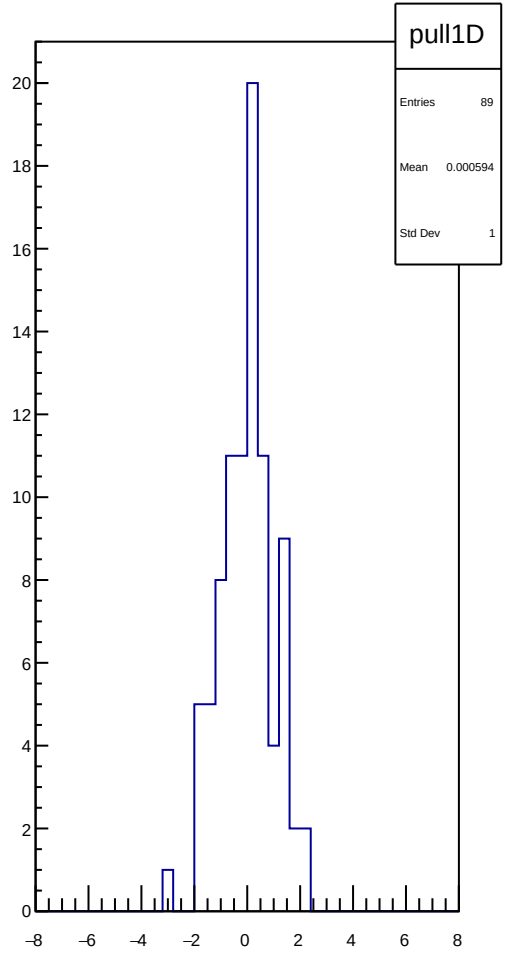

reg_asym_sam_15_dd_rms vs run
χ² / ndf 902.9 / 88
p0 87.9 ± 0.06651
94
92
90
88
86
84

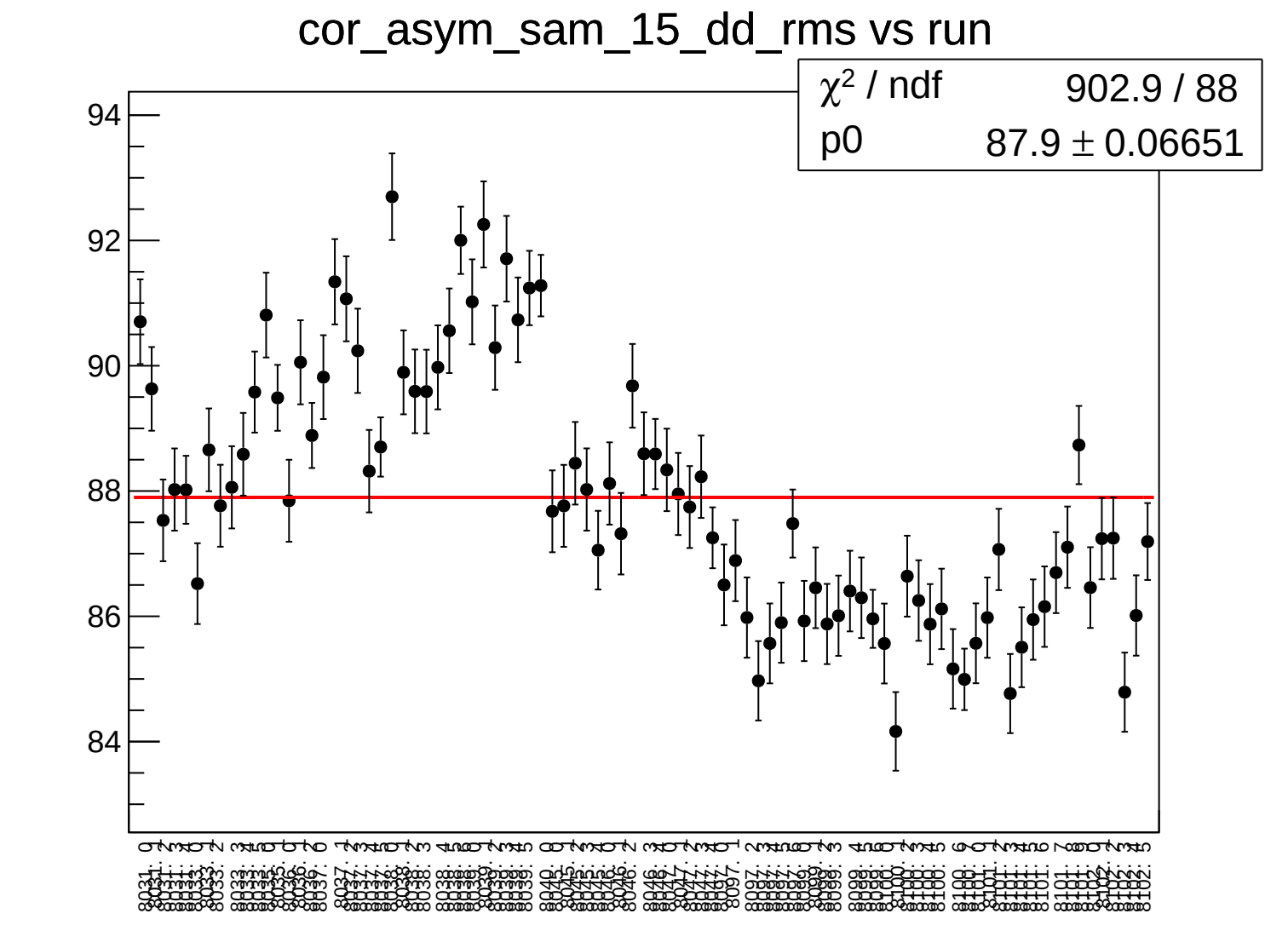

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 95.01 / 88
p0 −269.8 ± 796.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 55.47
Std Dev 0
2
1
0
−1
−2

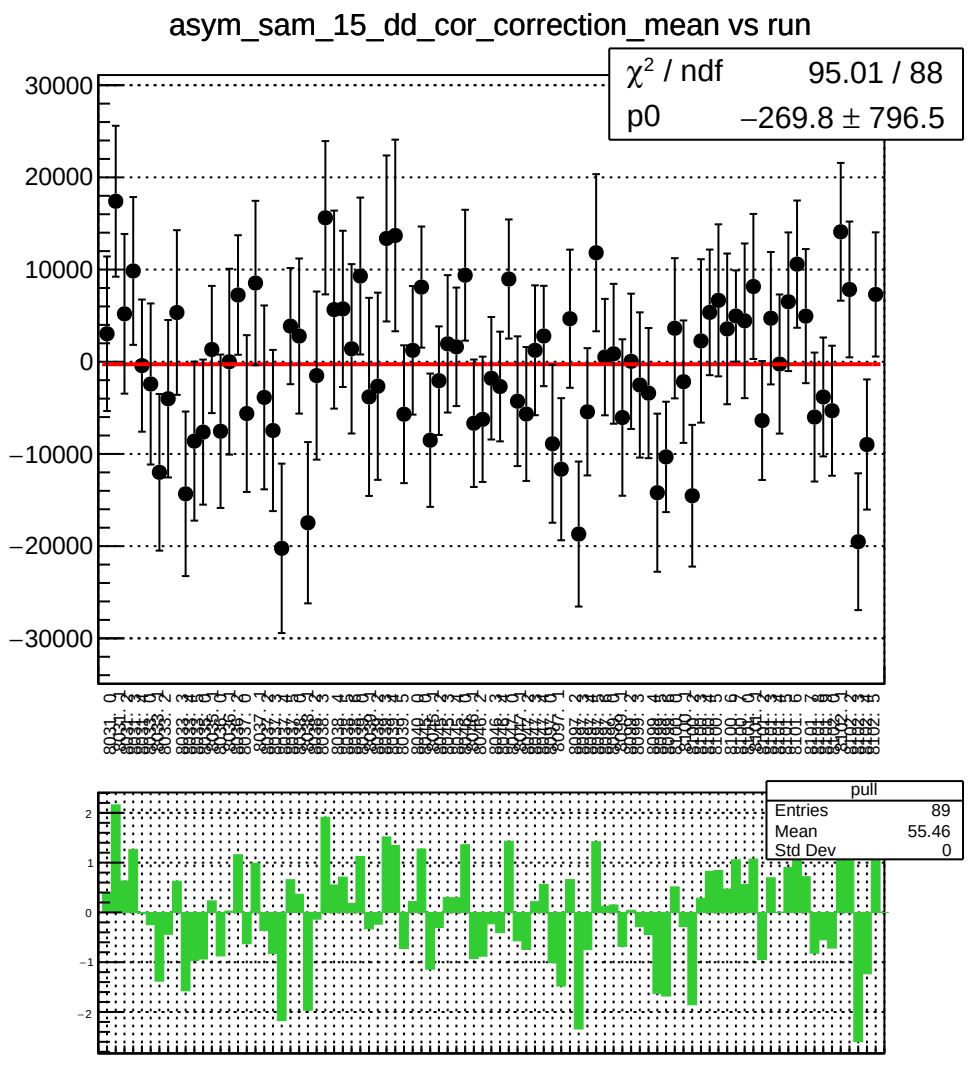

pull1D
Entries 89
Mean −0.008385
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

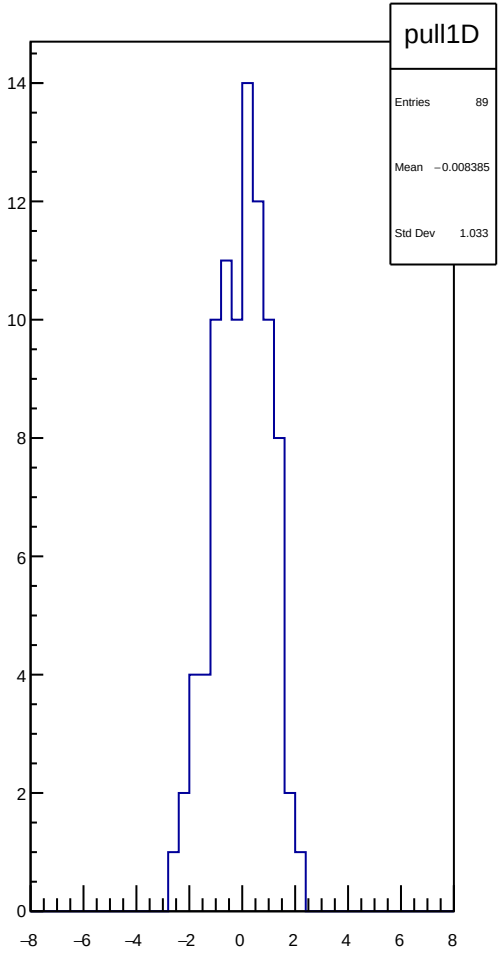

asym_sam_15_dd_reg_correction_rms vs run
χ² / ndf 2.983e+04 / 88
p0 738.1 ± 0.5632
1100
1000
900
800
700
600
500

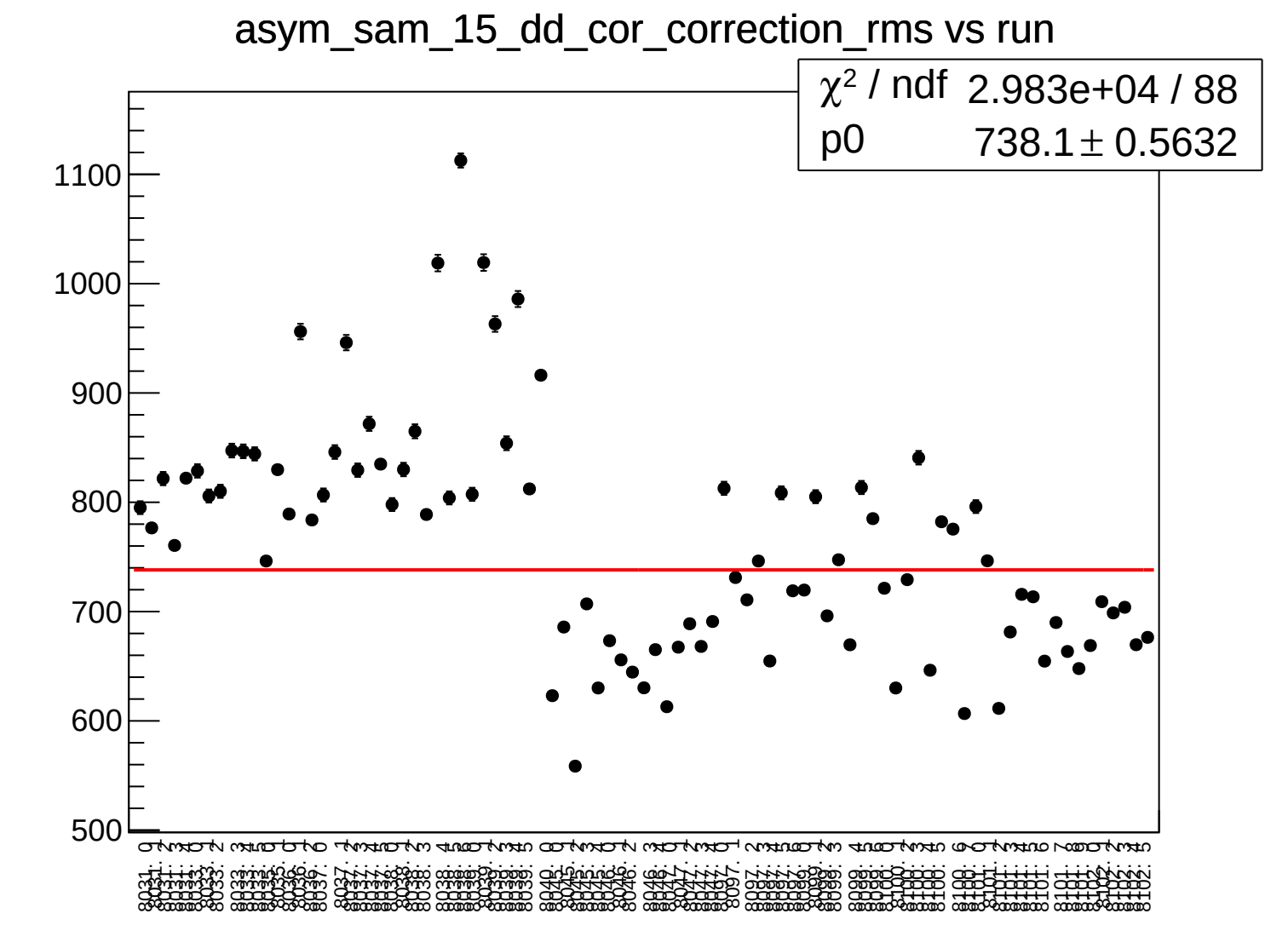

cor_asym_sam_15_dd_mean vs run
χ² / ndf 89 / 88
p0 −52.59 ± 94.06
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 89
Mean −3528
Std Dev 0
2
1
0
−1
−2
−3

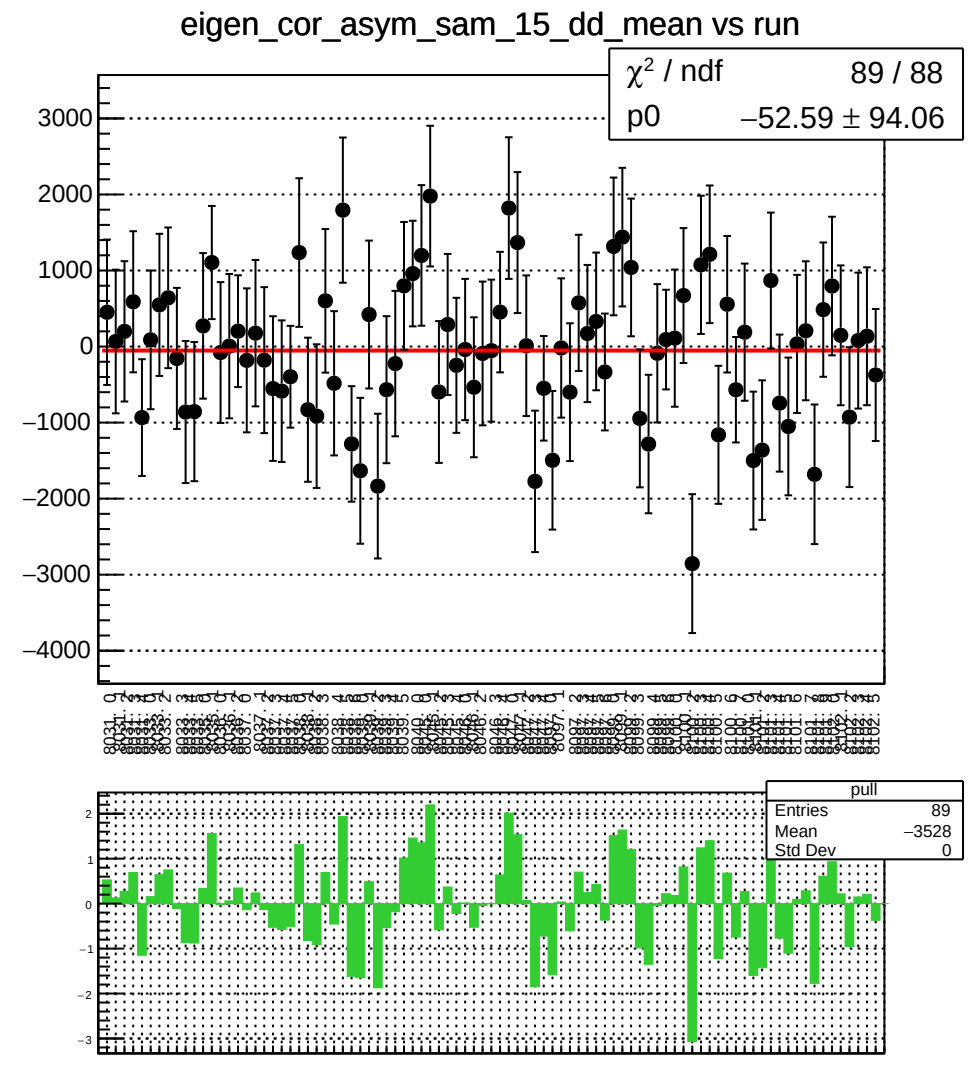

pull1D
Entries 89
Mean 0.000594
Std Dev 1
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

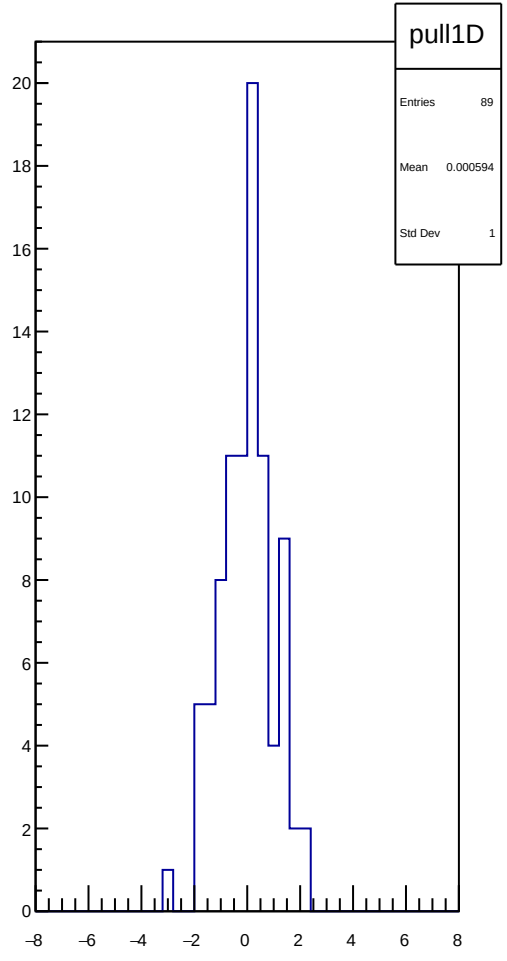

cor_asym_sam_15_dd_rms vs run
χ² / ndf 902.9 / 88
p0 87.9 ± 0.06651
94
92
90
88
86
84

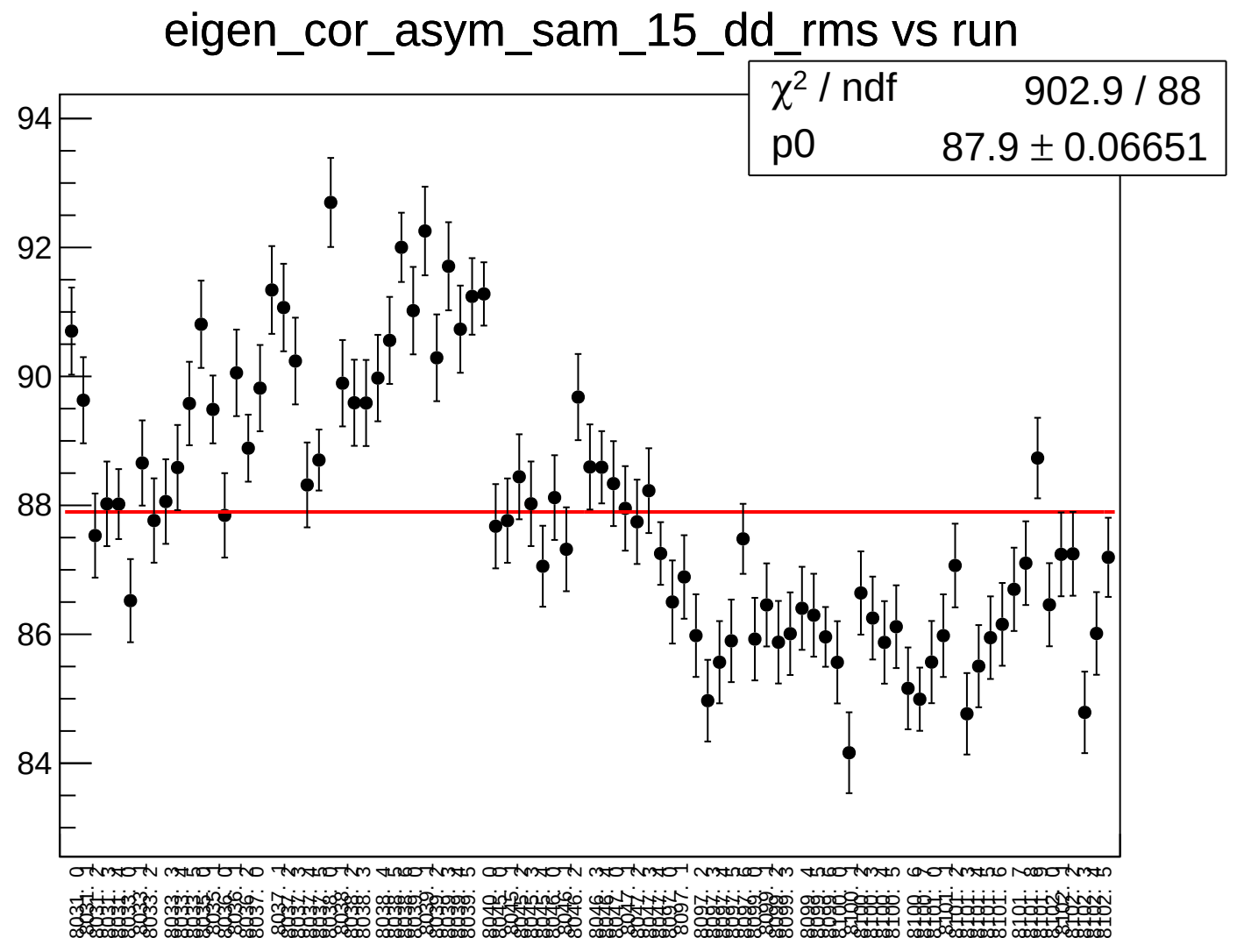

asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 95.01 / 88
p0 −269.8 ± 796.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 55.46
Std Dev 0
2
1
0
−1
−2

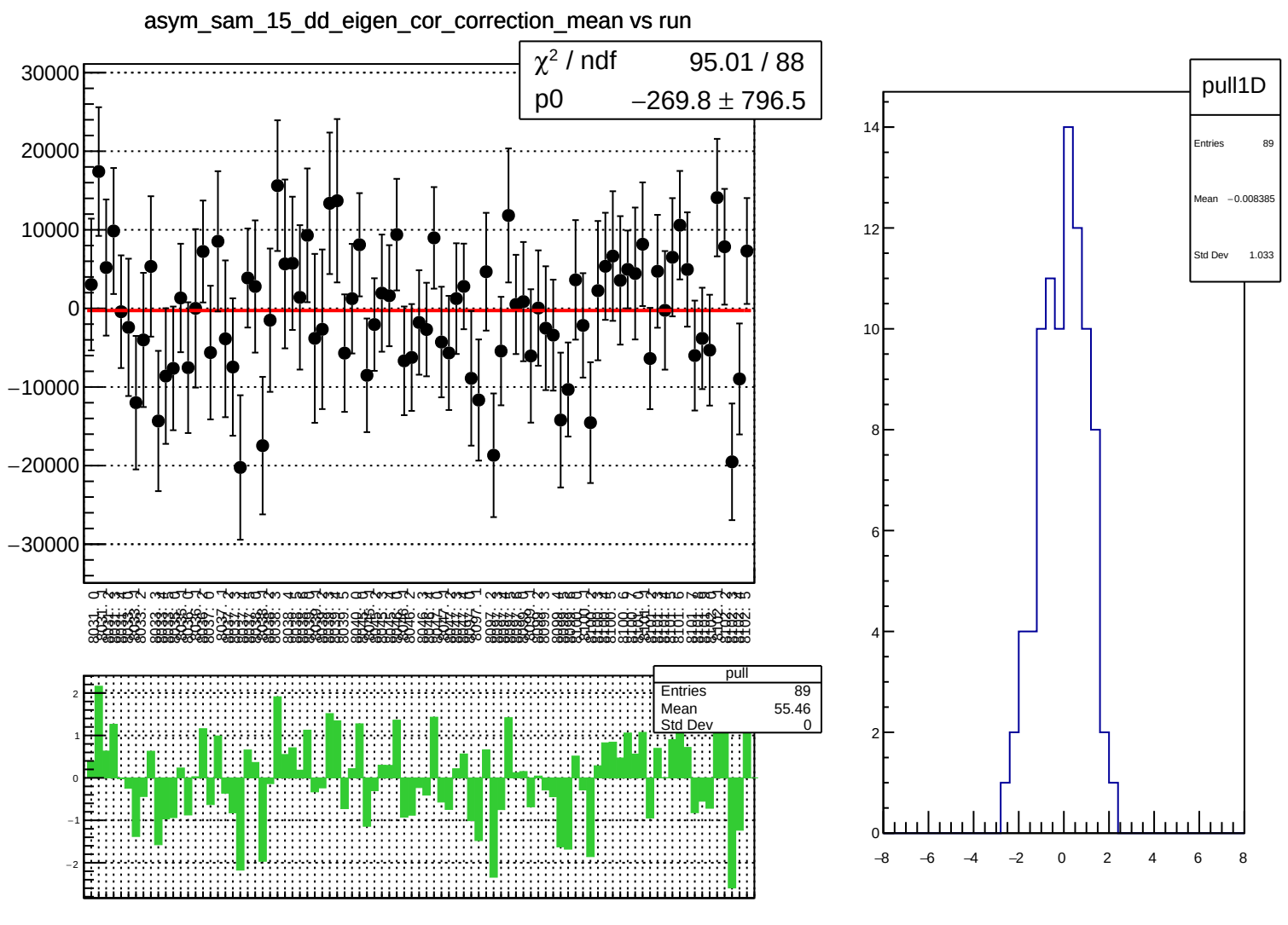

pull1D
Entries 89
Mean −0.008385
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

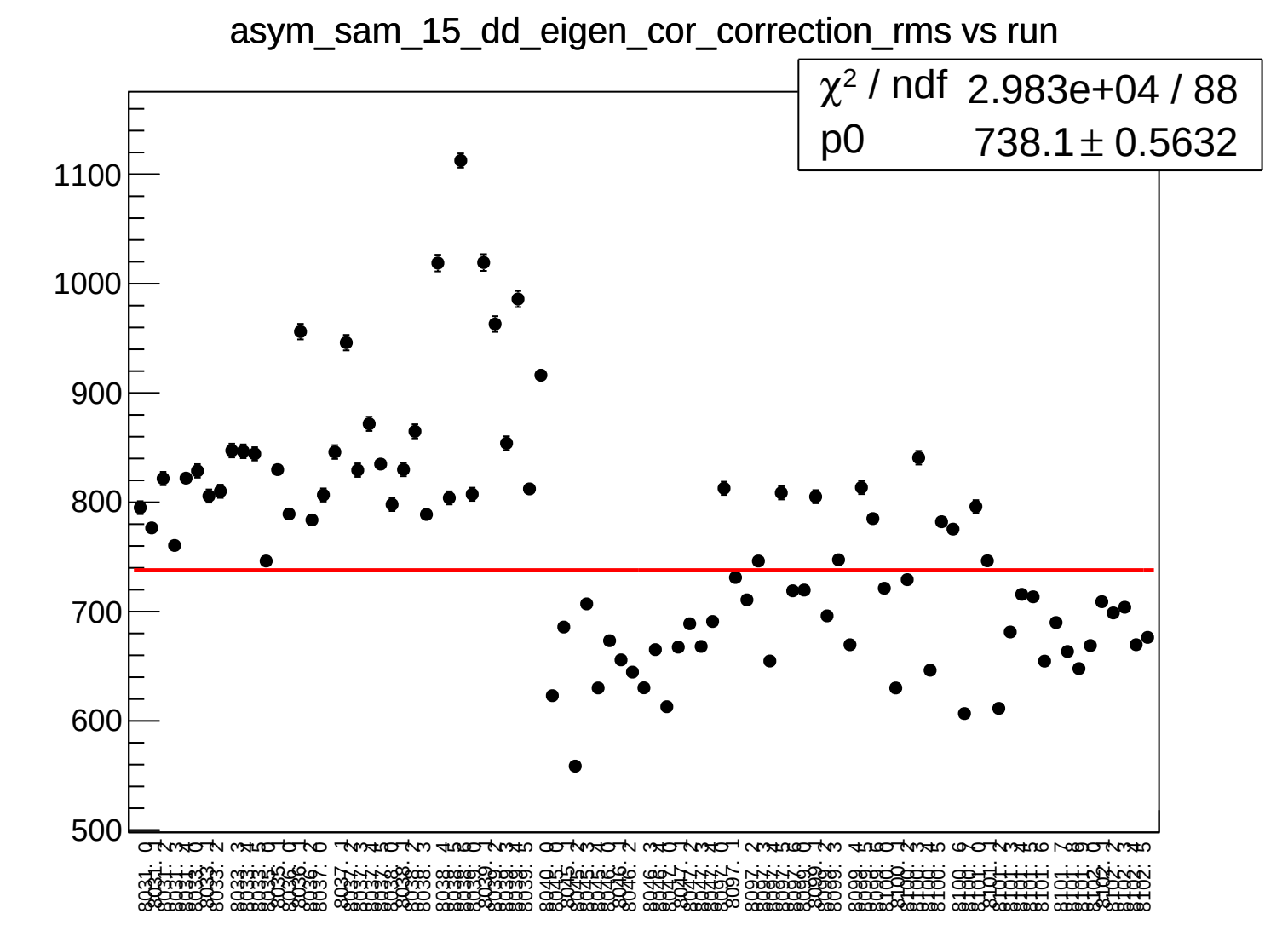

asym_sam_15_dd_cor_correction_rms vs run
χ² / ndf 2.983e+04 / 88
p0 738.1 ± 0.5632
1100
1000
900
800
700
600
500

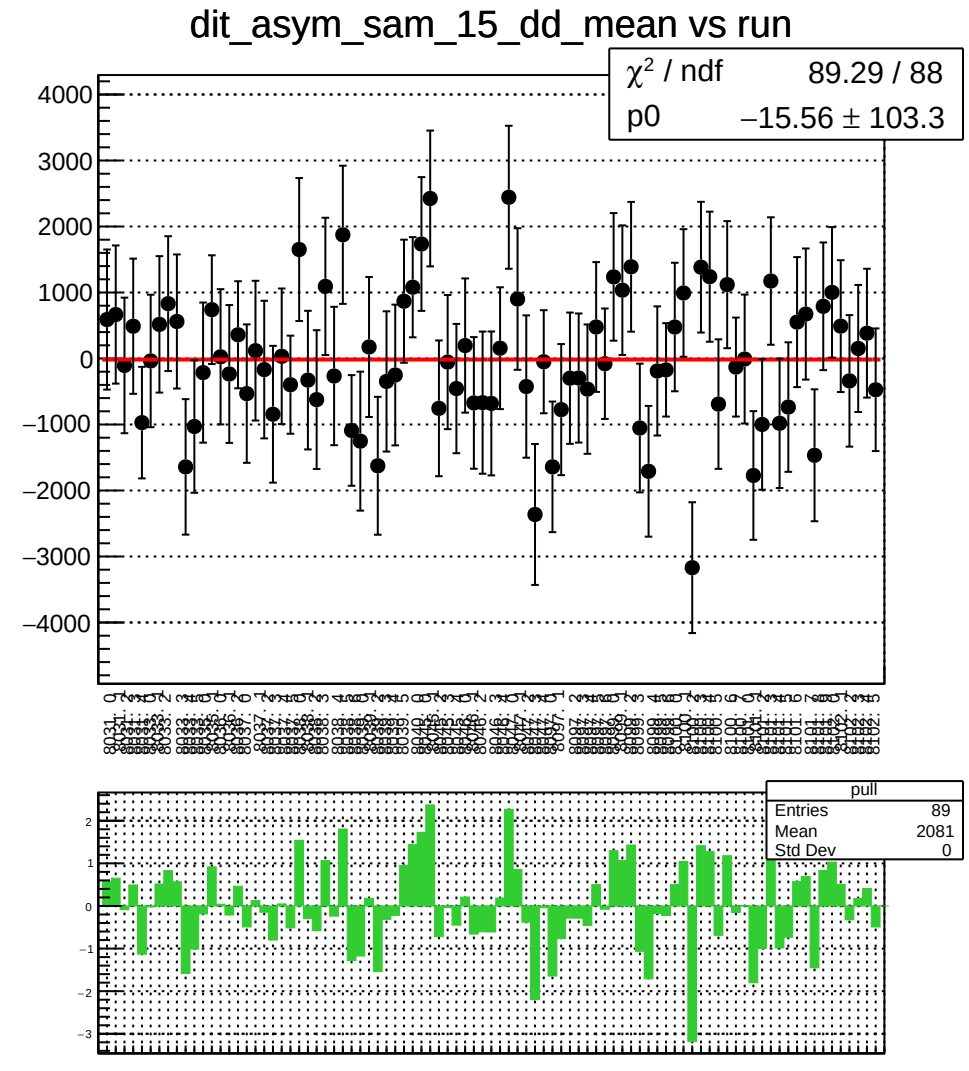

eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 89 / 88
p0 −52.59 ± 94.06
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 89
Mean −3528
Std Dev 0
2
1
0
−1
−2
−3

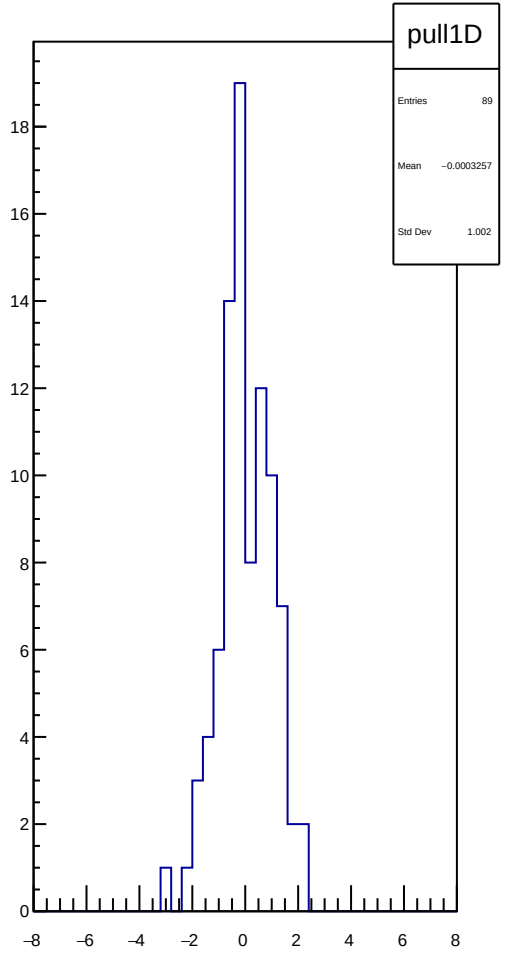

pull1D
Entries 89
Mean 0.000594
Std Dev 1
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

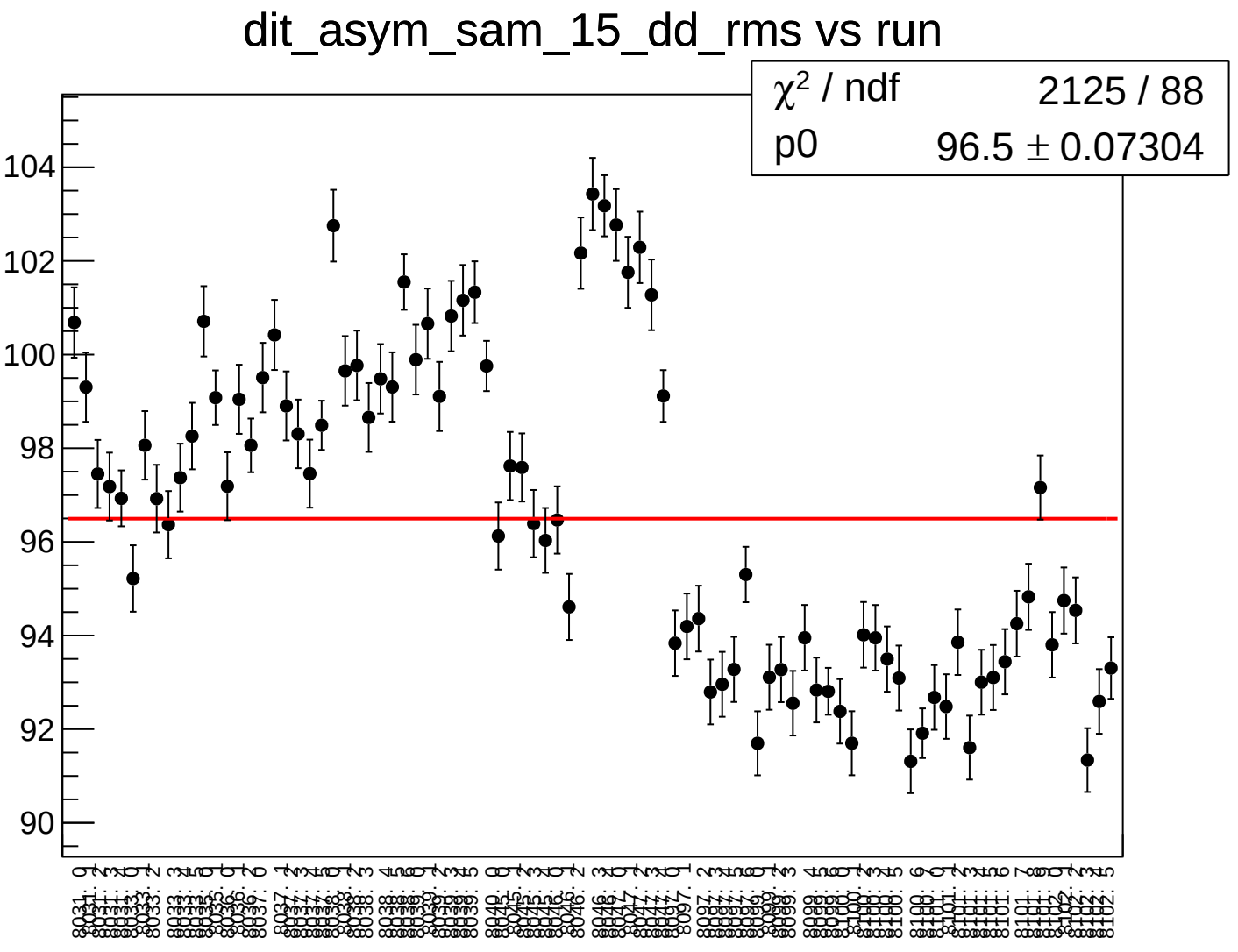

eigen_cor_asym_sam_15_dd_rms vs run
χ² / ndf 902.9 / 88
p0 87.9 ± 0.06651
94
92
90
88
86
84

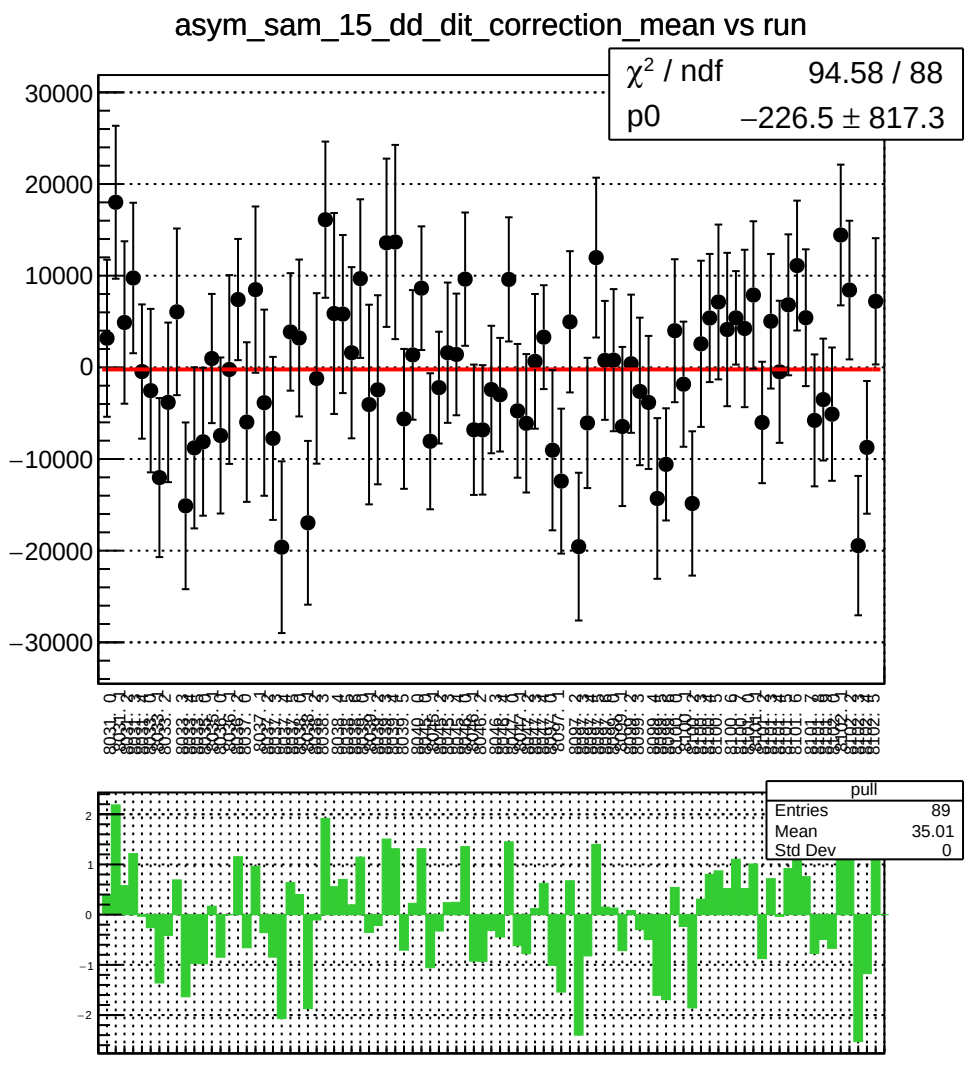

asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 95.01 / 88
p0 −269.8 ± 796.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 55.46
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.008385
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

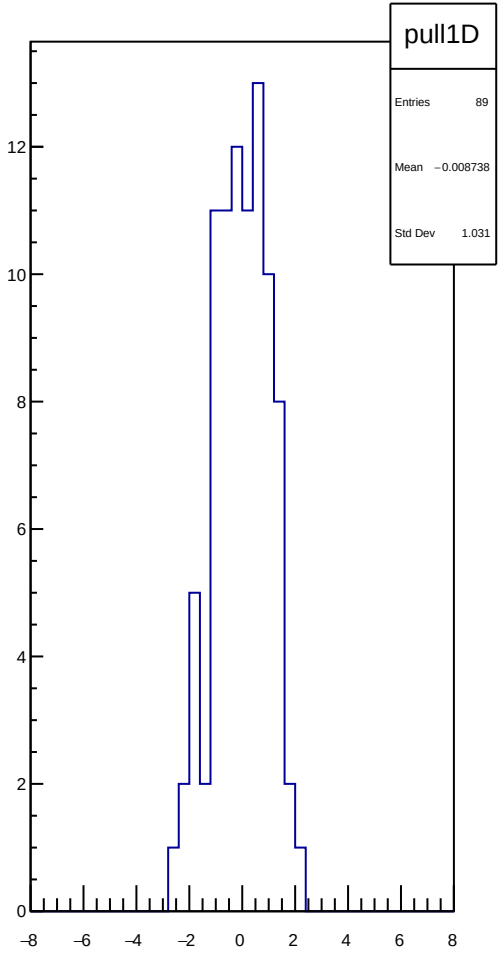

asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.983e+04 / 88
p0 738.1 ± 0.5632
1100
1000
900
800
700
600
500

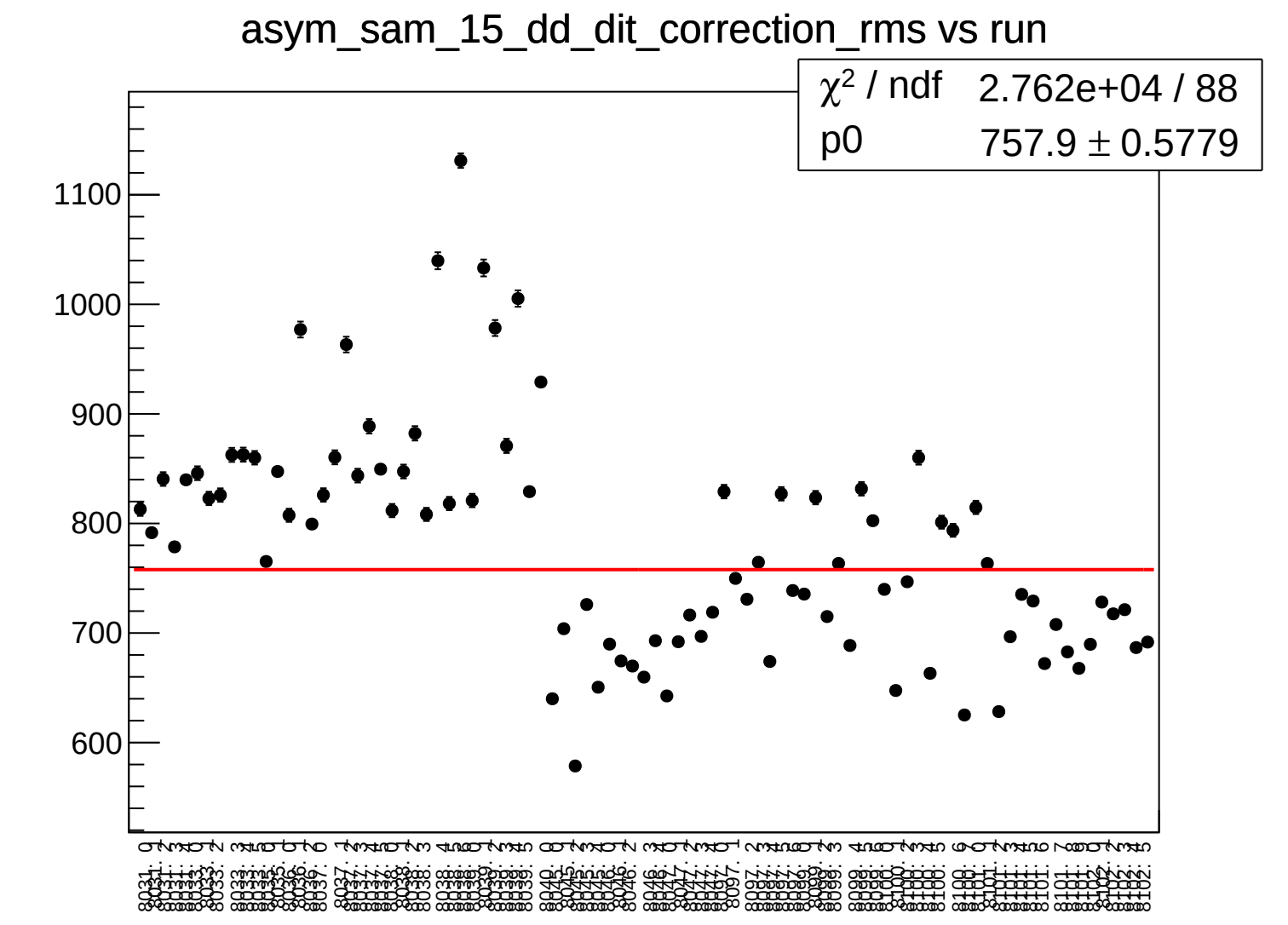

dit_asym_sam_15_dd_mean vs run
χ² / ndf 89.29 / 88
p0 −15.56 ± 103.3
pull
Entries 89
Mean 2081
Std Dev 0

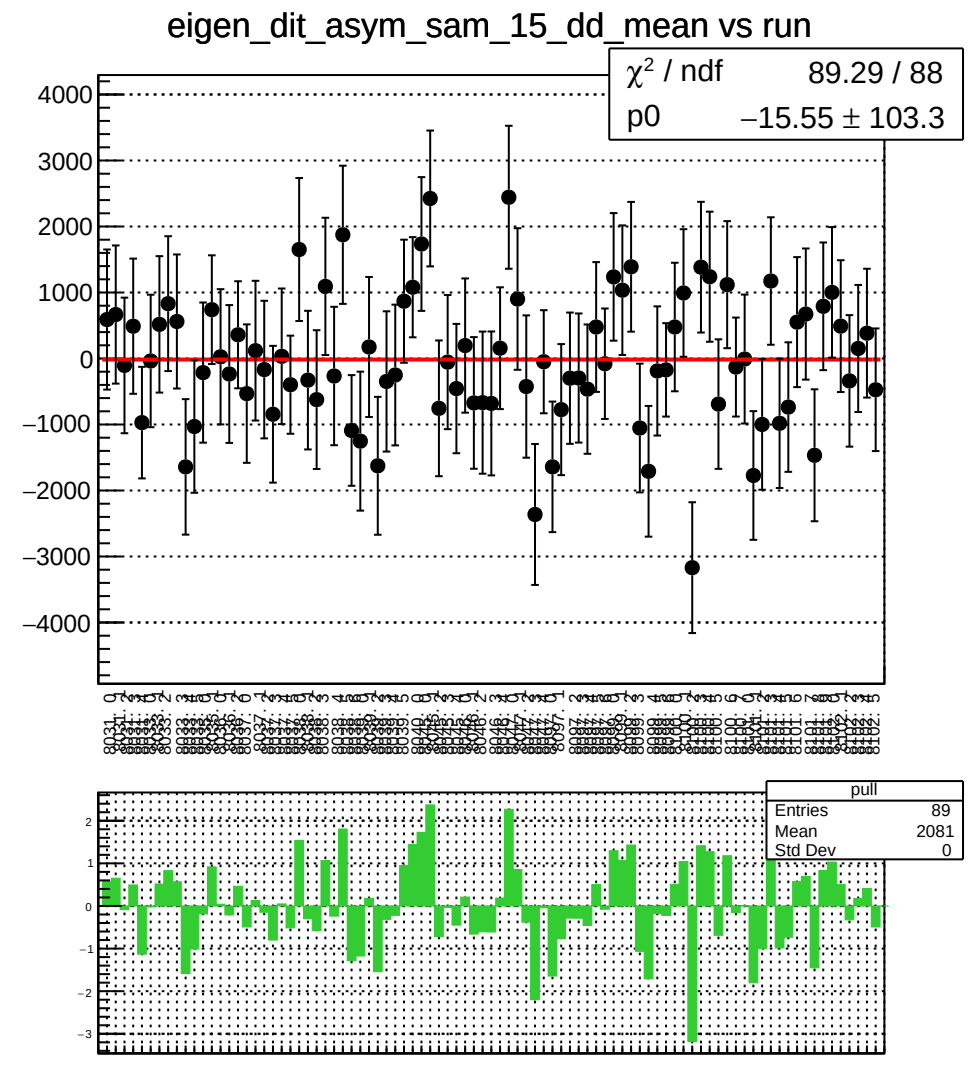

pull1D
Entries 89
Mean −0.0003257
Std Dev 1.002

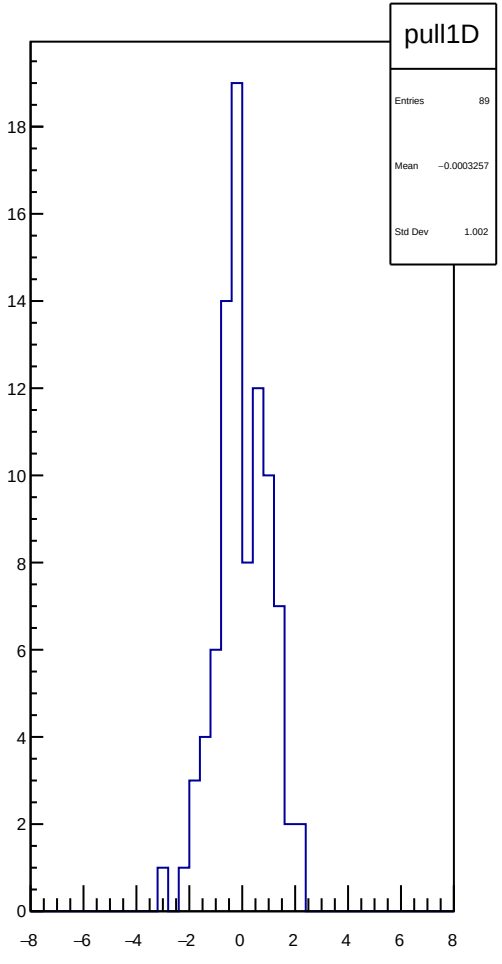

dit_asym_sam_15_dd_rms vs run
χ² / ndf 2125 / 88
p0 96.5 ± 0.07304
104
102
100
98
96
94
92
90

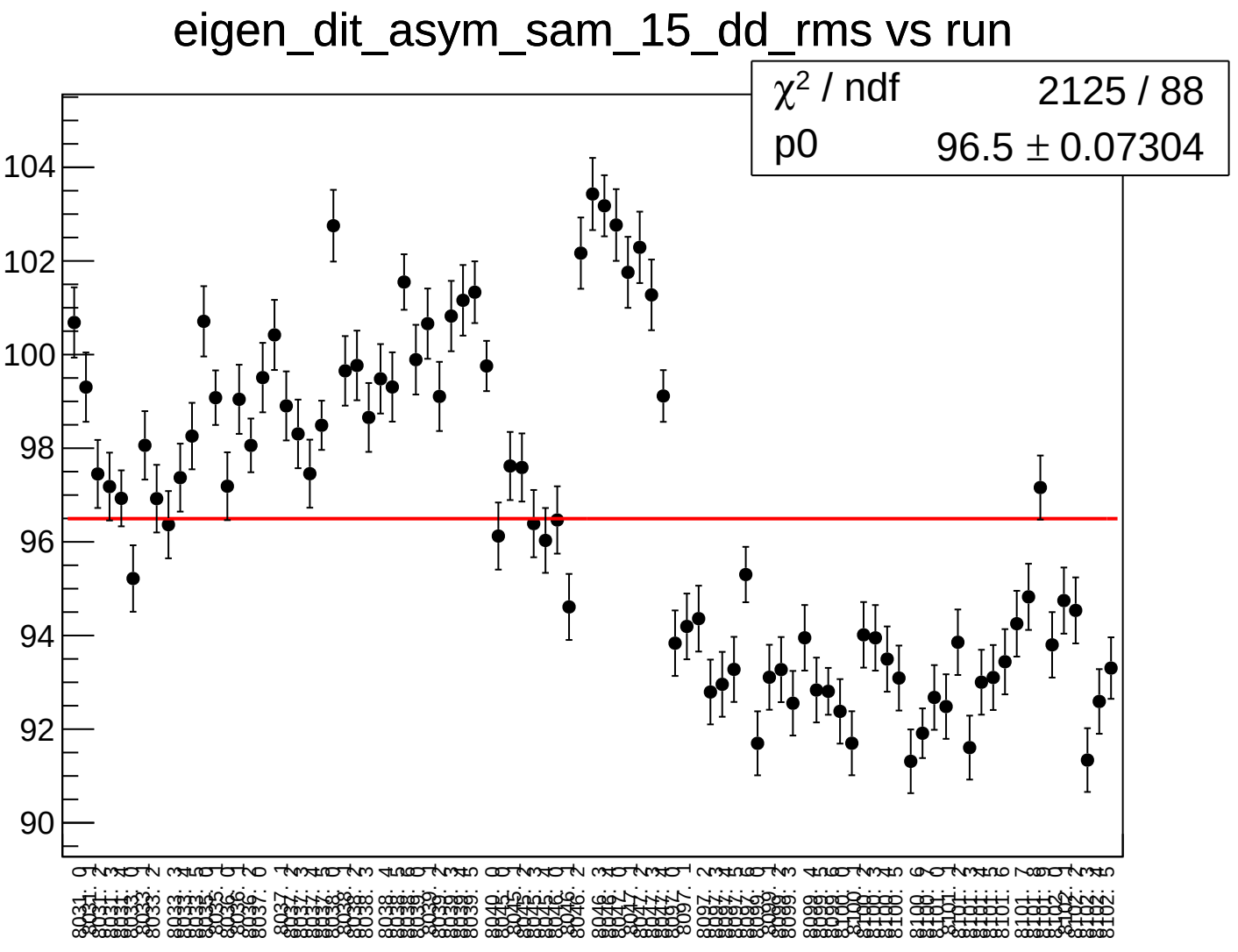

asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 94.58 / 88
p0 −226.5 ± 817.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 35.01
Std Dev 0
2
1
0
−1
−2

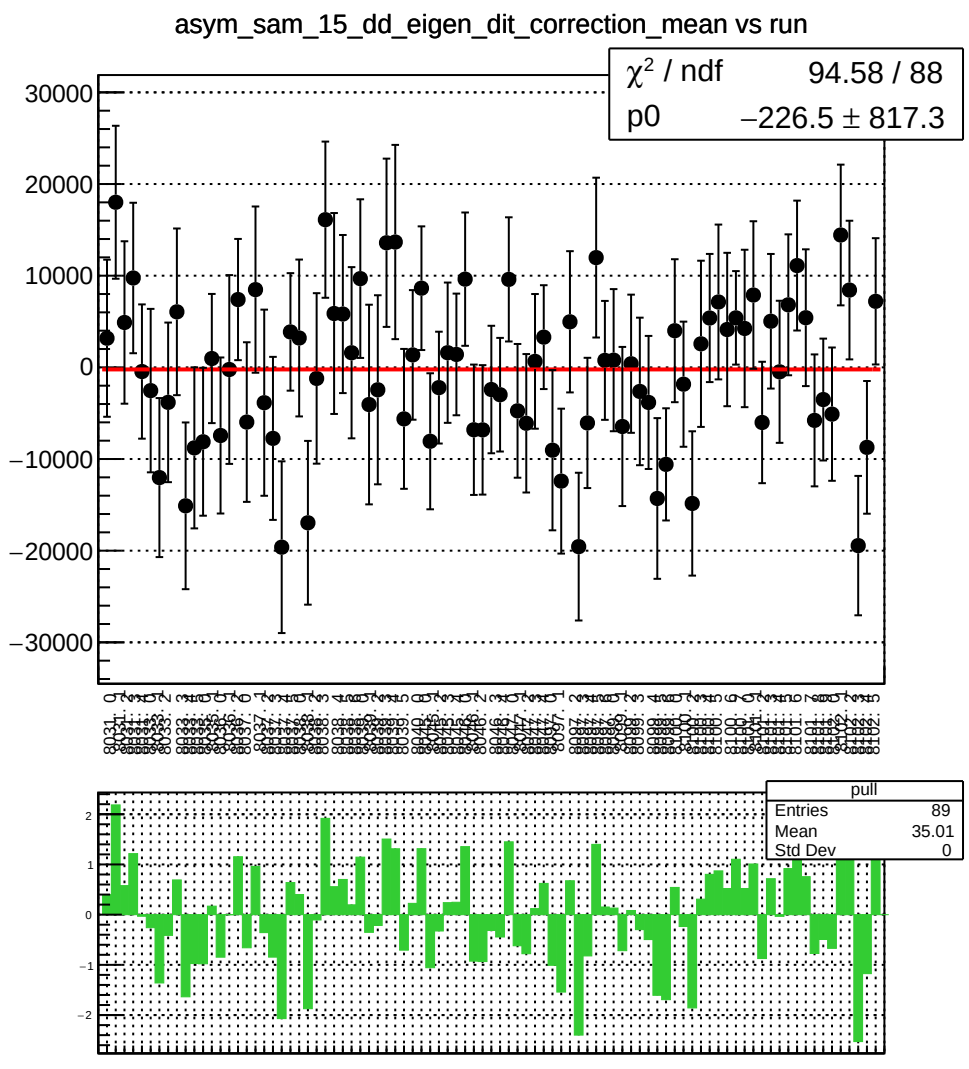

pull1D
Entries 89
Mean −0.008738
Std Dev 1.031
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

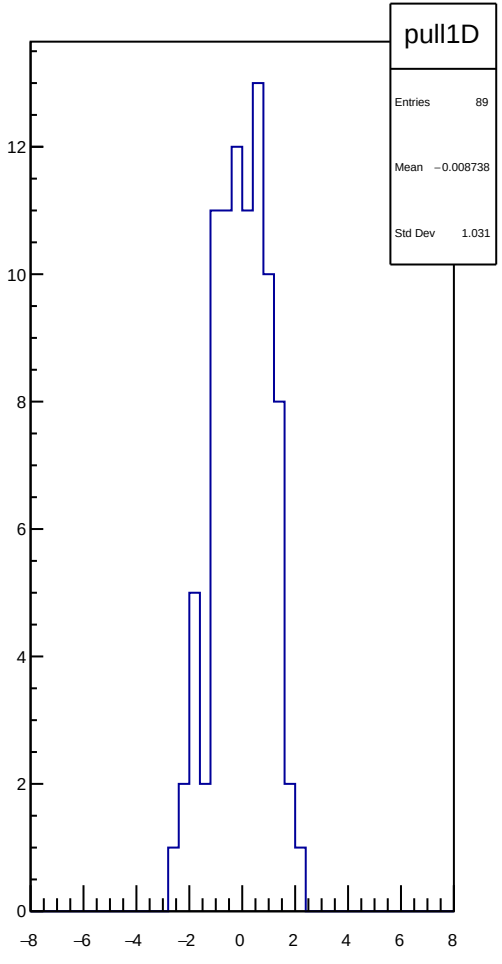

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 2.762e+04 / 88
p0 757.9 ± 0.5779
1100
1000
900
800
700
600

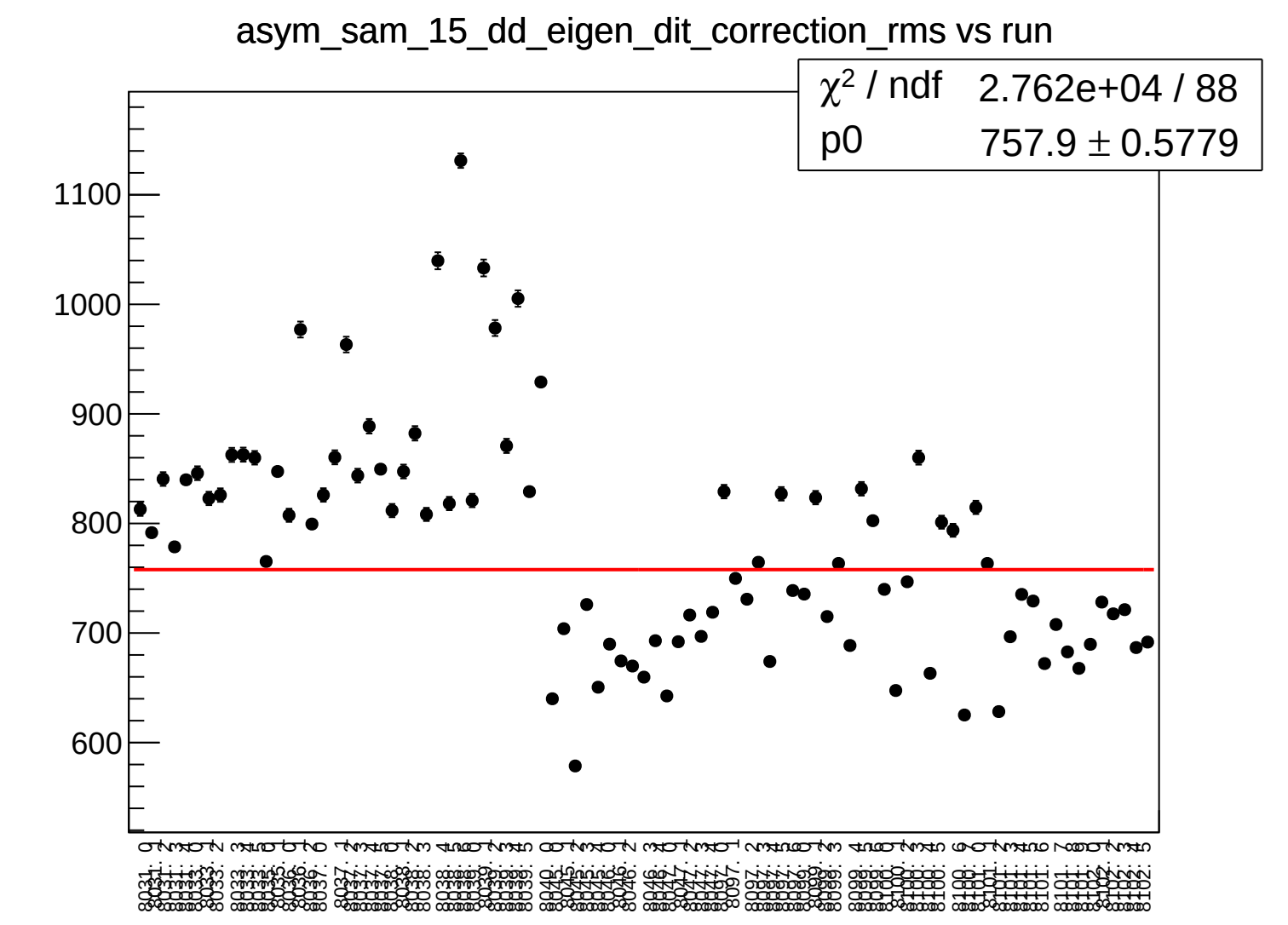

eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 89.29 / 88
p0 −15.55 ± 103.3
pull
Entries 89
Mean 2081
Std Dev 0

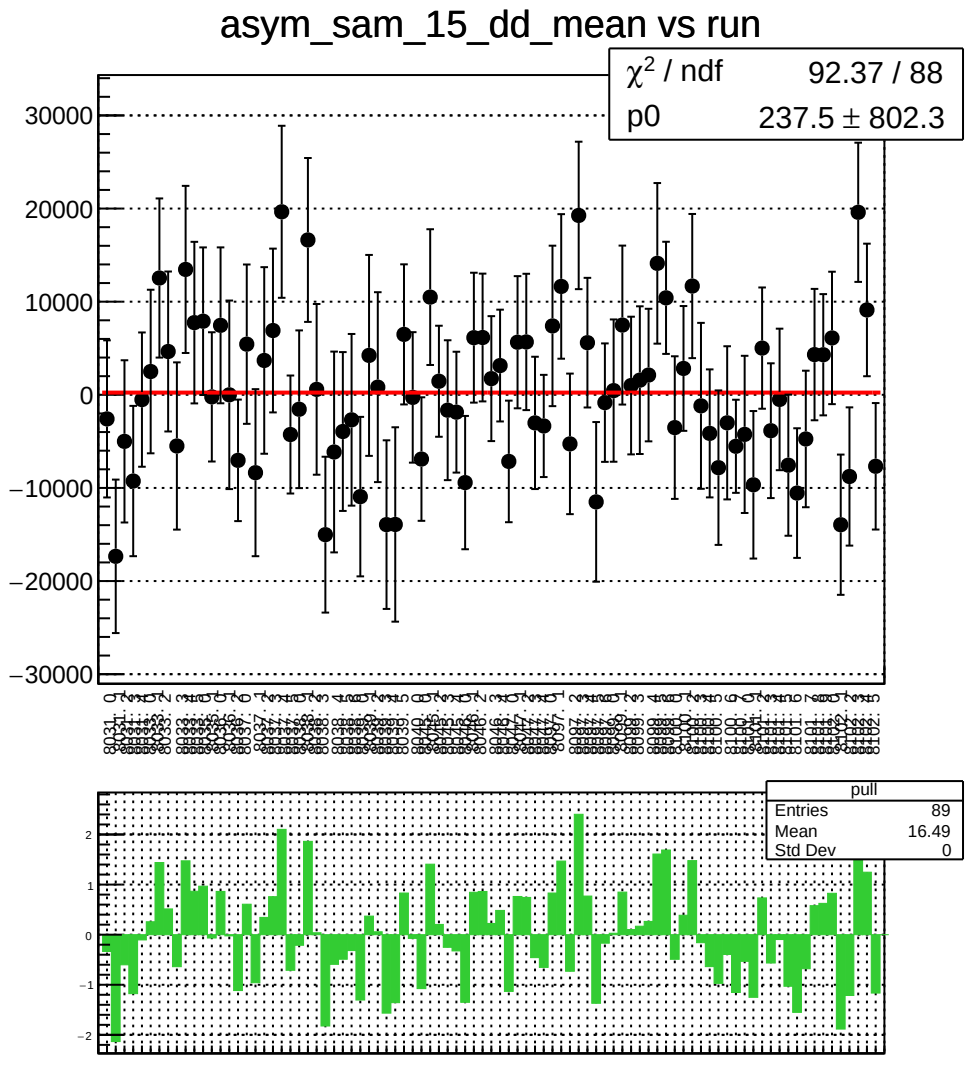

pull1D
Entries 89
Mean −0.0003257
Std Dev 1.002

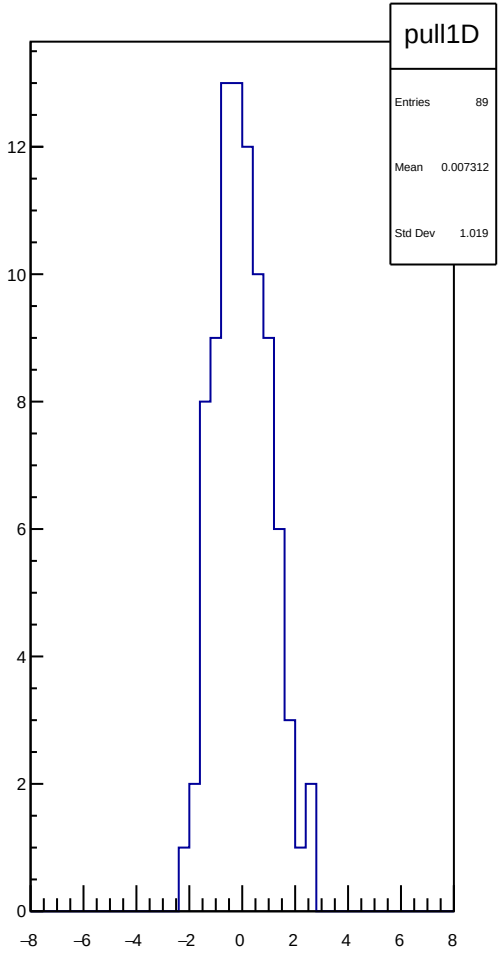

eigen_dit_asym_sam_15_dd_rms vs run
$\chi^2$ / ndf 2125 / 88
p0 96.5 ± 0.07304
104
102
100
98
96
94
92
90

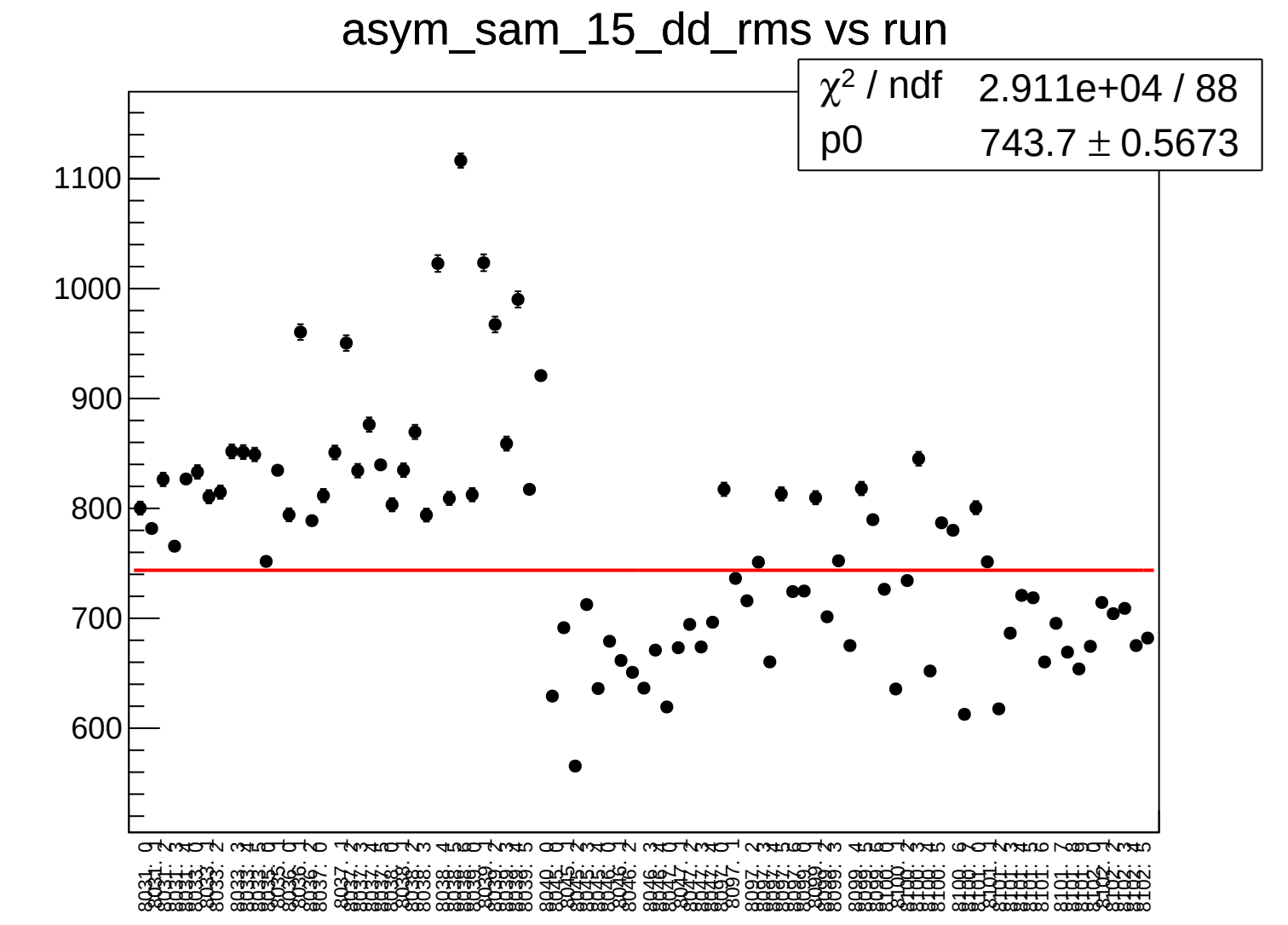

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 94.58 / 88
p0 −226.5 ± 817.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 35.01
Std Dev 0
2
1
0
−1
−2

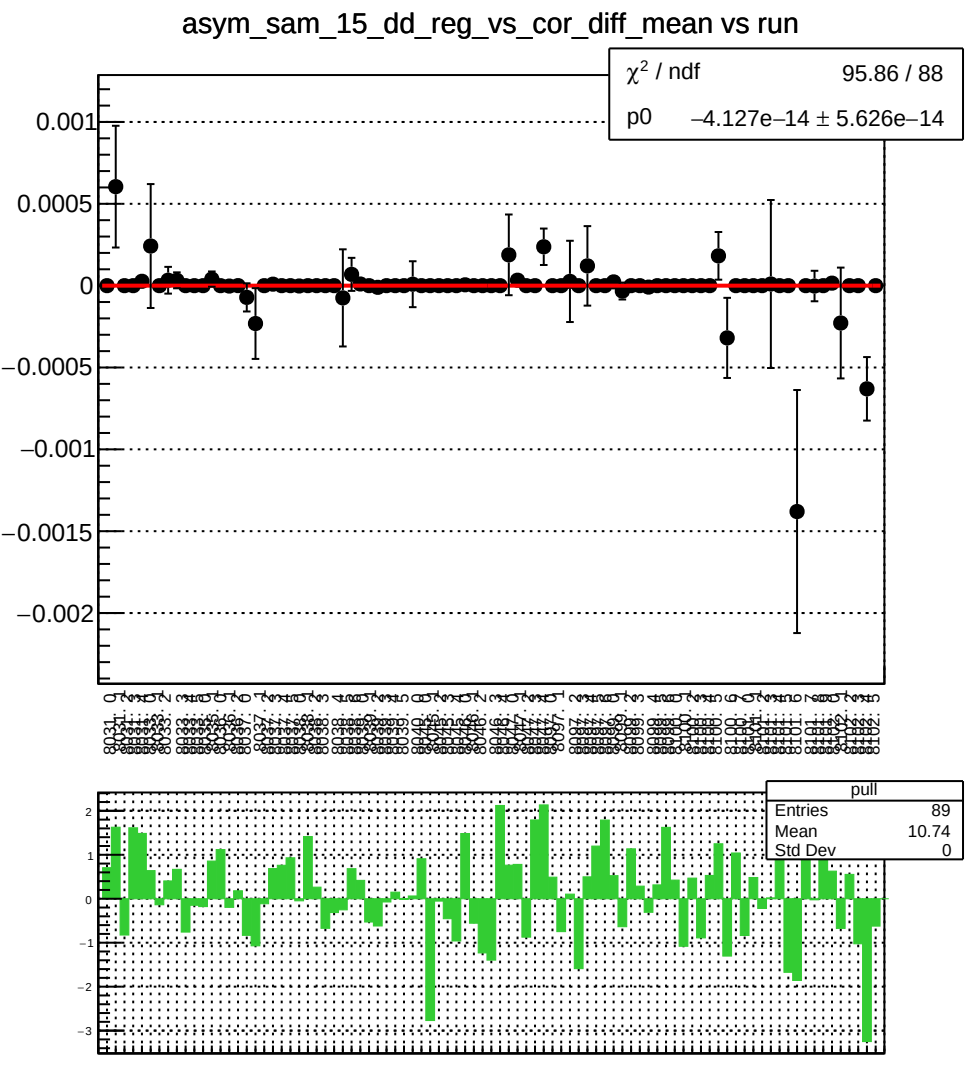

pull1D
Entries 89
Mean −0.008738
Std Dev 1.031
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

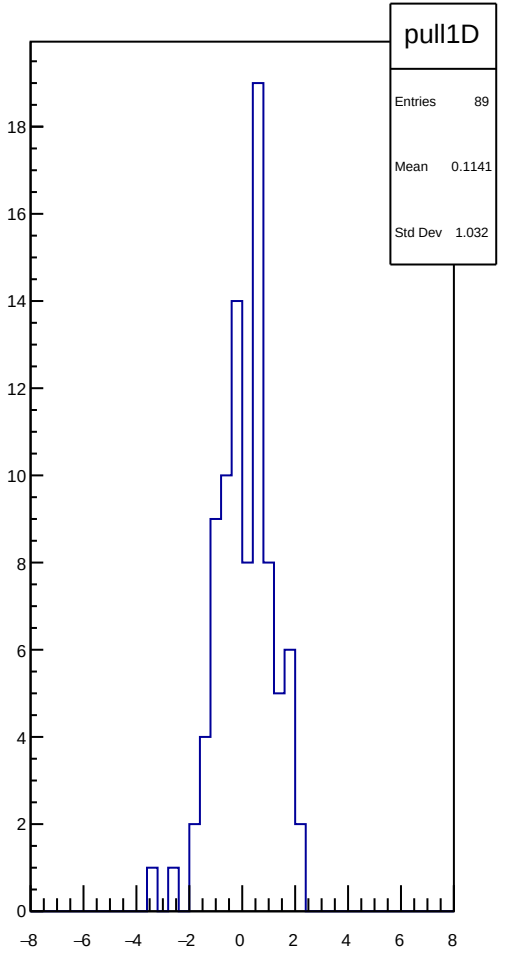

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.762e+04 / 88
p0 757.9 ± 0.5779
1100
1000
900
800
700
600

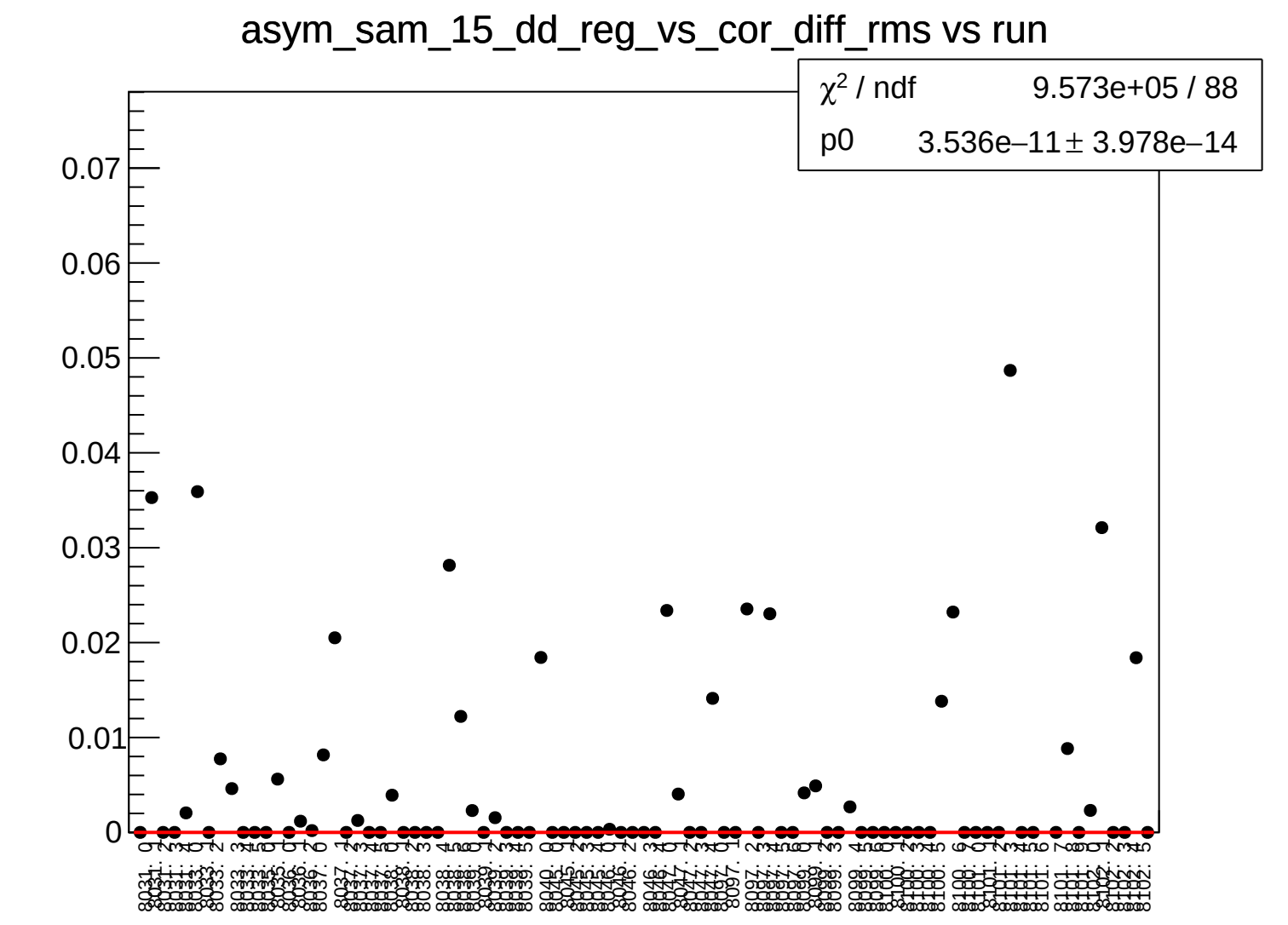

asym_sam_15_dd_mean vs run
χ² / ndf 92.37 / 88
p0 237.5 ± 802.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 16.49
Std Dev 0
2
1
0
−1
−2

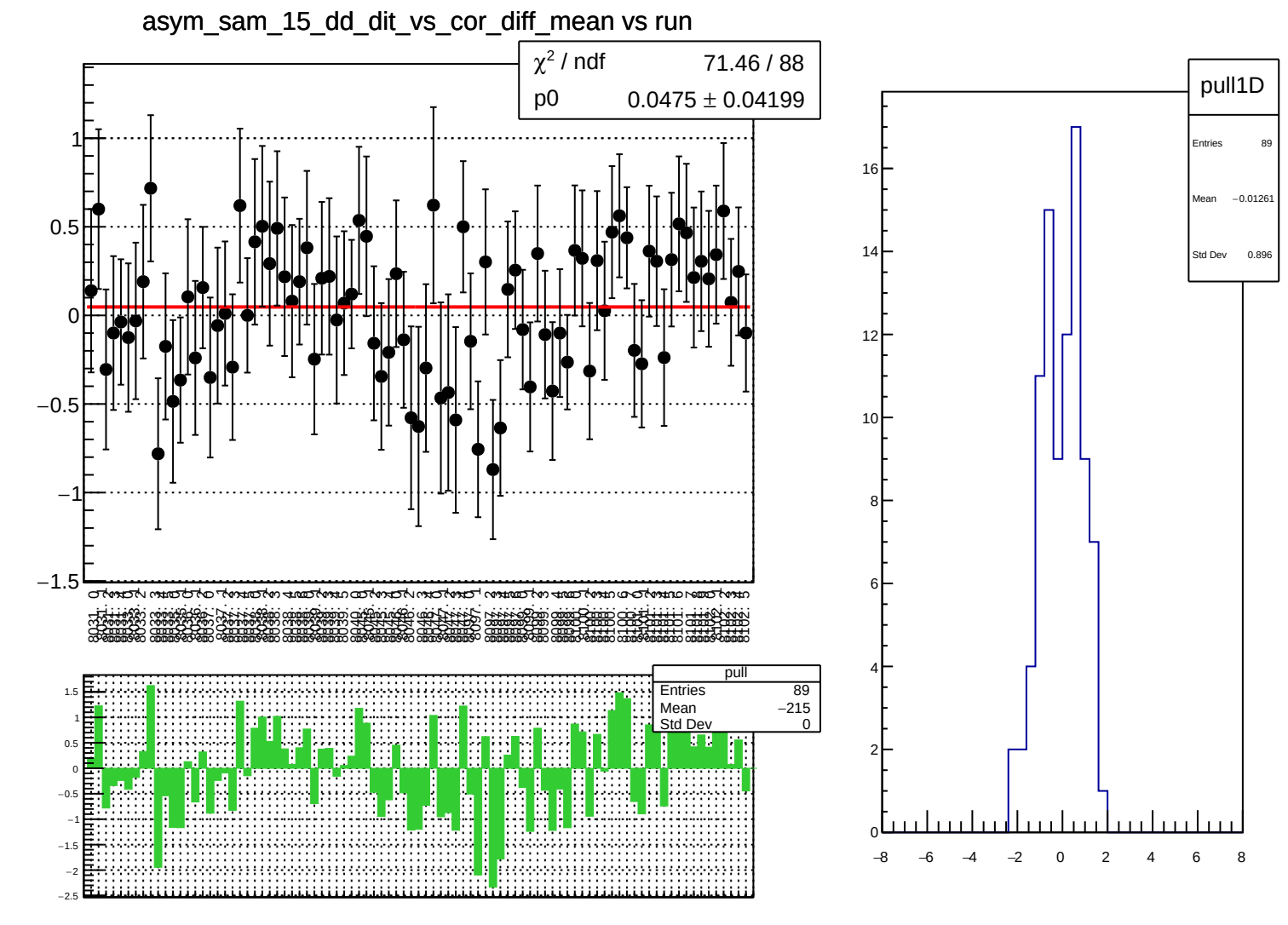

pull1D
Entries 89
Mean 0.007312
Std Dev 1.019
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

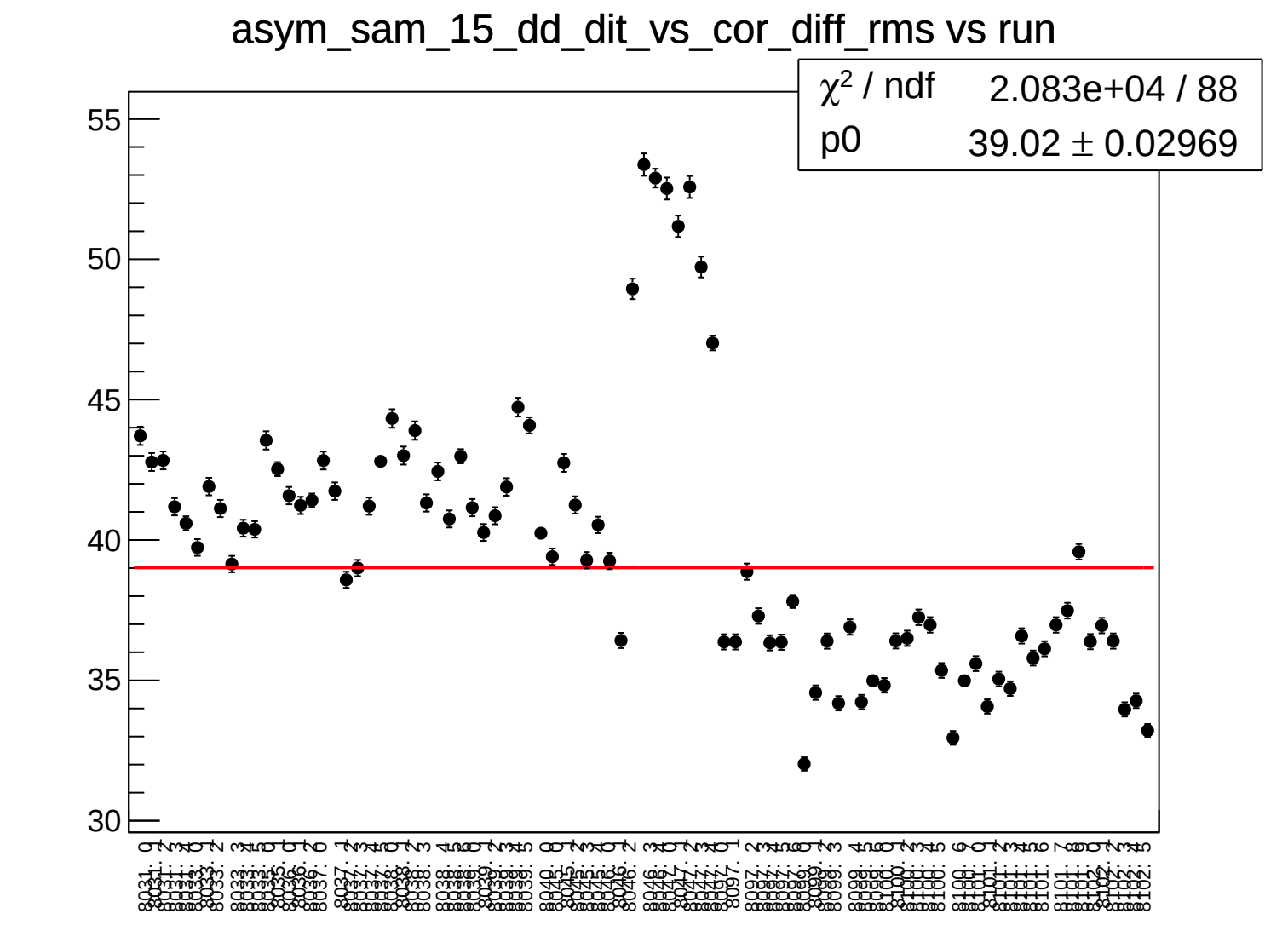

asym_sam_15_dd_rms vs run
χ² / ndf 2.911e+04 / 88
p0 743.7 ± 0.5673
1100
1000
900
800
700
600

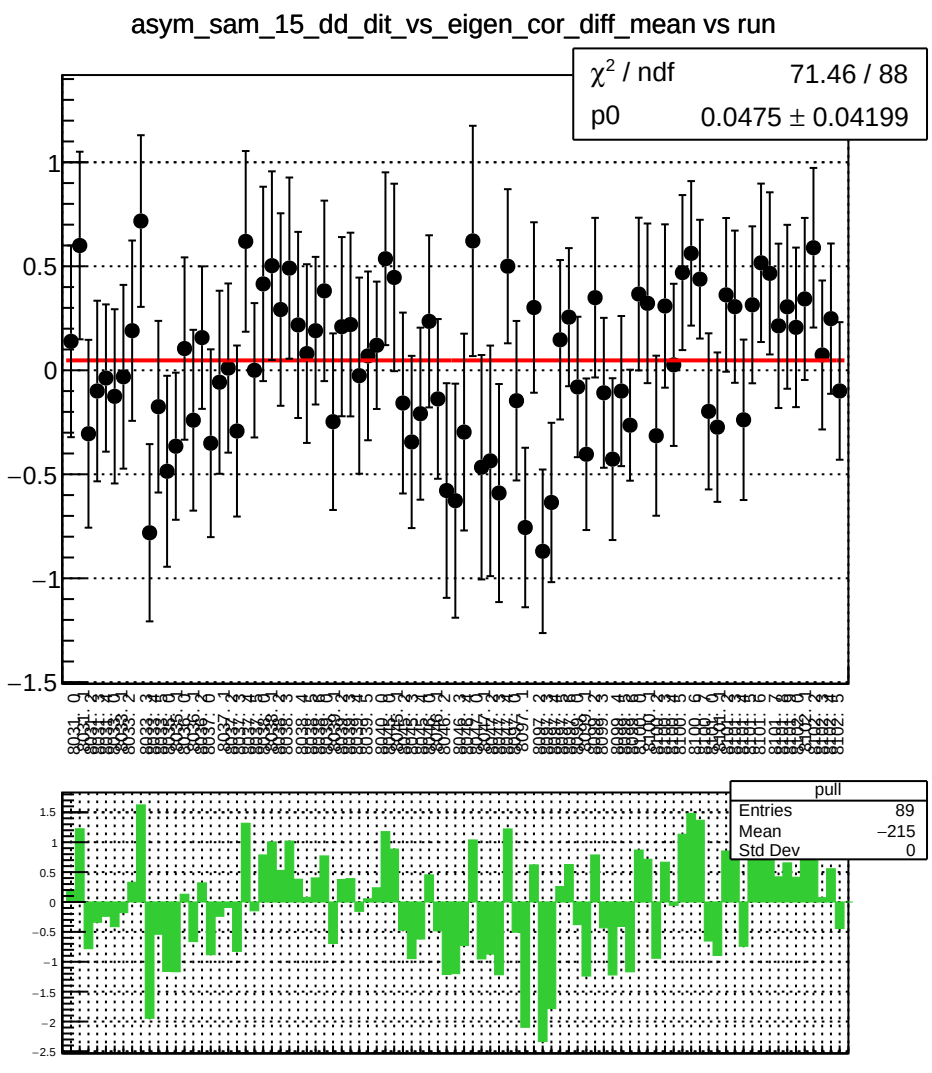

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 95.86 / 88
p0 −4.127e−14 ± 5.626e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 89
Mean 10.74
Std Dev 0
2
1
0
−1
−2
−3

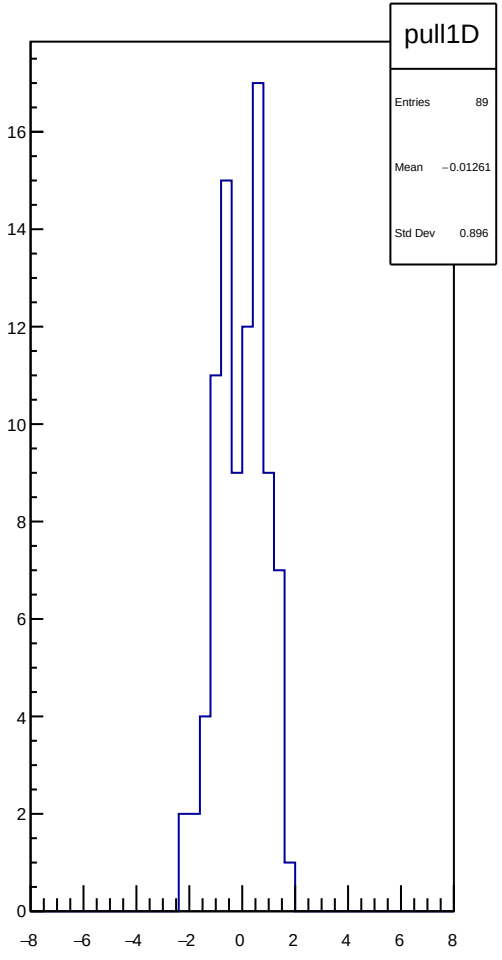

pull1D
Entries 89
Mean 0.1141
Std Dev 1.032
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

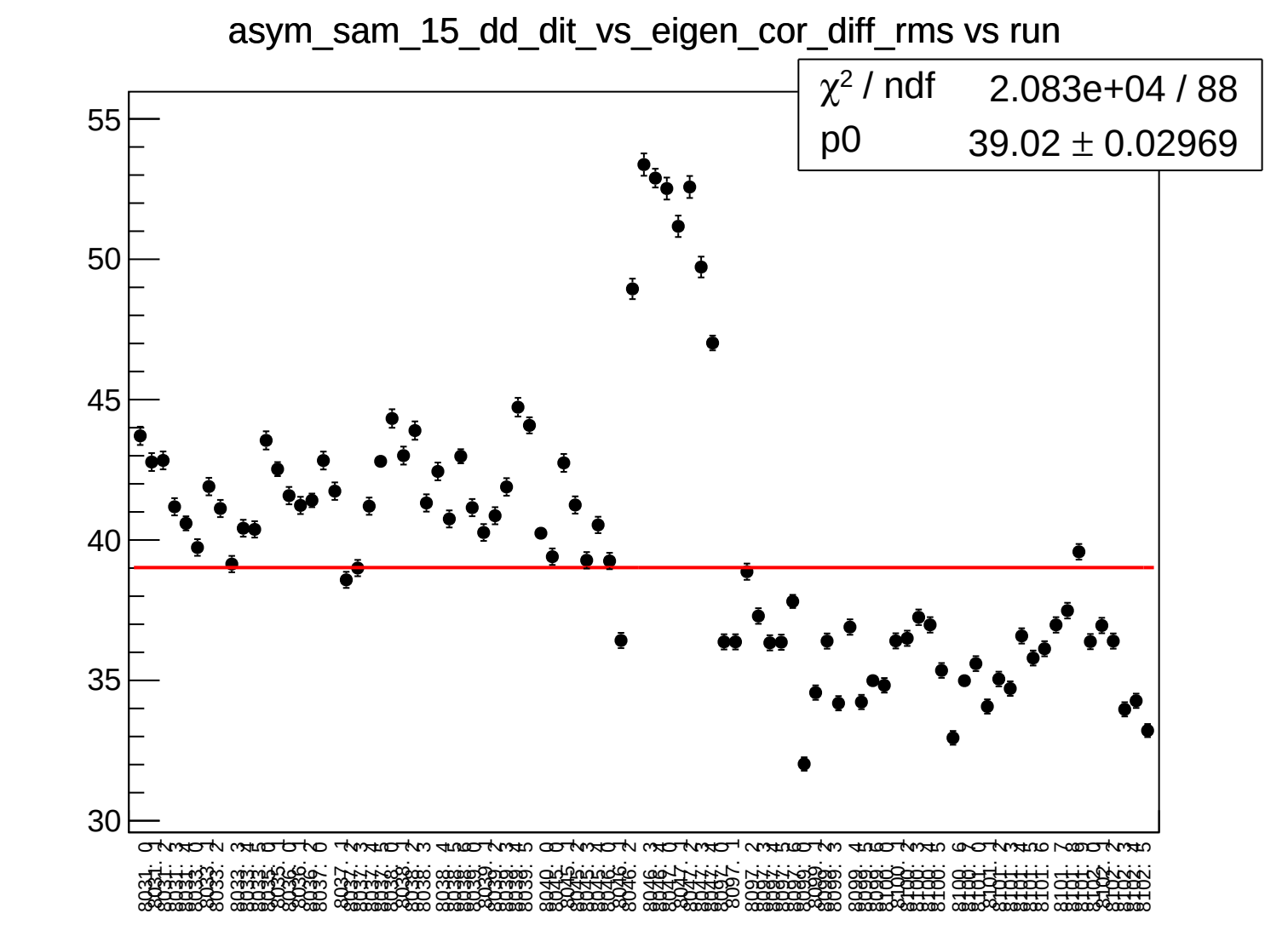

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.573e+05 / 88
p0 3.536e−11 ± 3.978e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

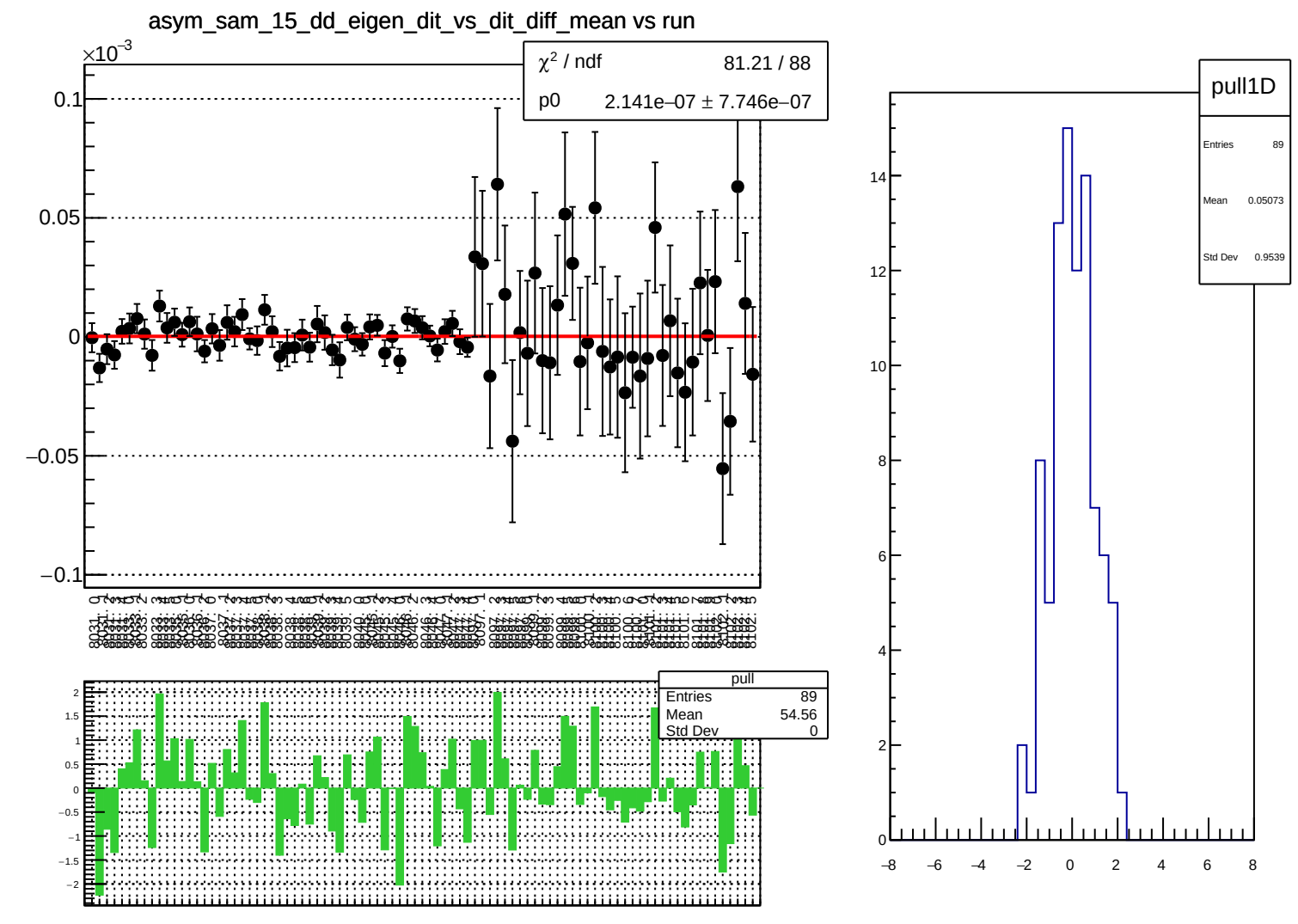

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 71.46 / 88
p0 0.0475 ± 0.04199
pull
Entries 89
Mean −215
Std Dev 0
pull1D
Entries 89
Mean −0.01261
Std Dev 0.896

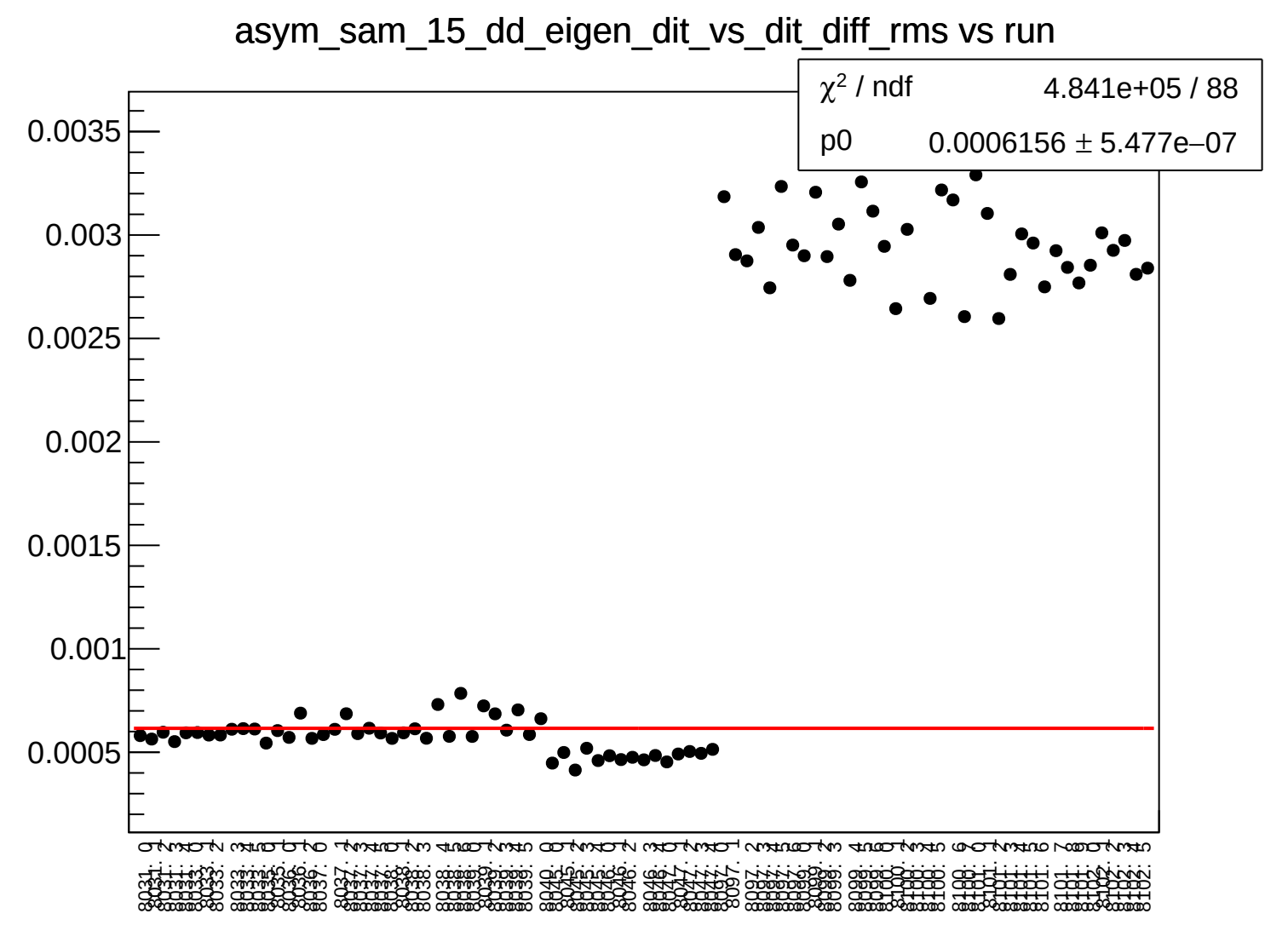

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.083e+04 / 88
p0 39.02 ± 0.02969
55
50
45
40
35
30

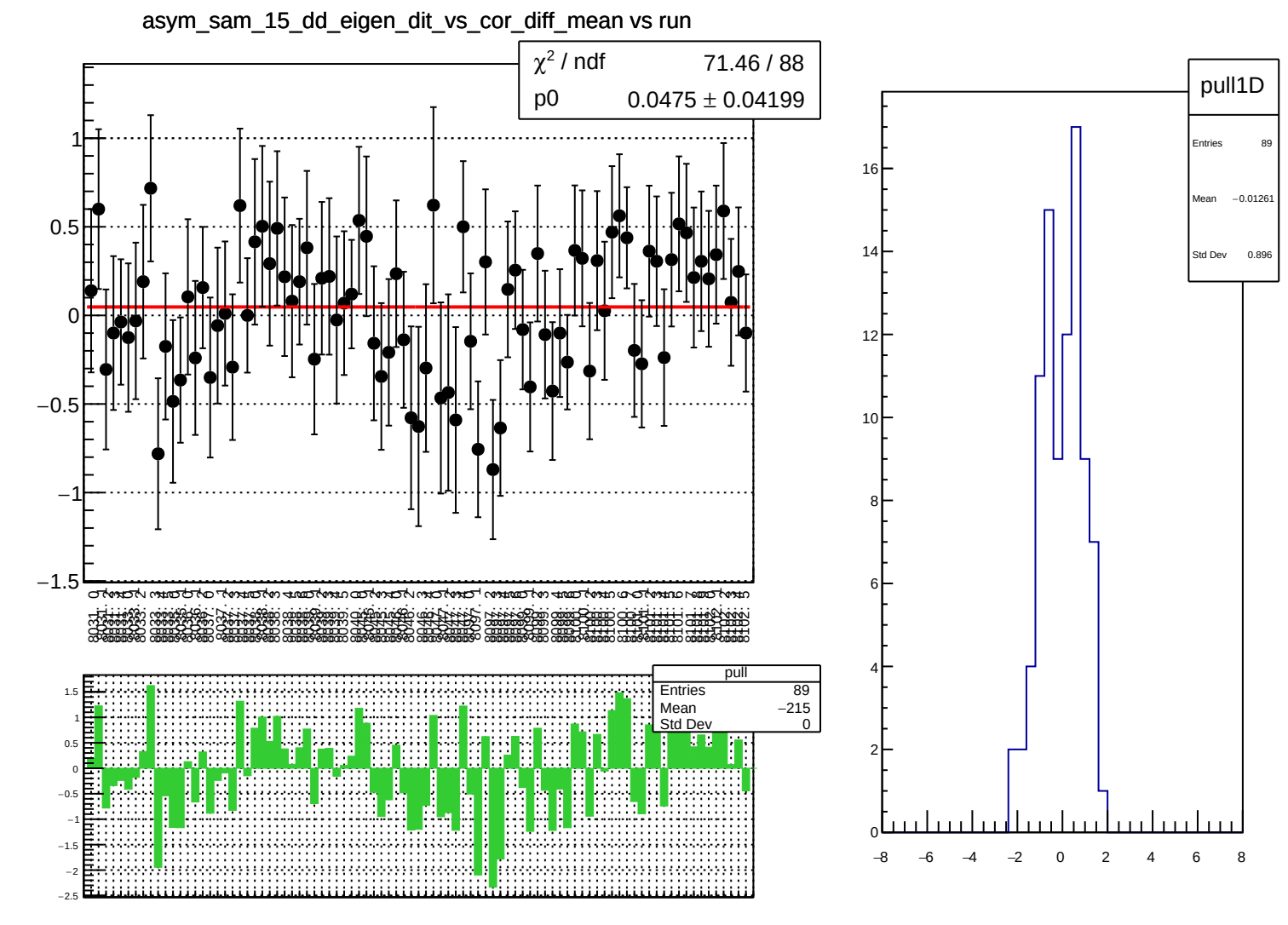

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.46 / 88
p0 0.0475 ± 0.04199
pull
Entries 89
Mean −215
Std Dev 0

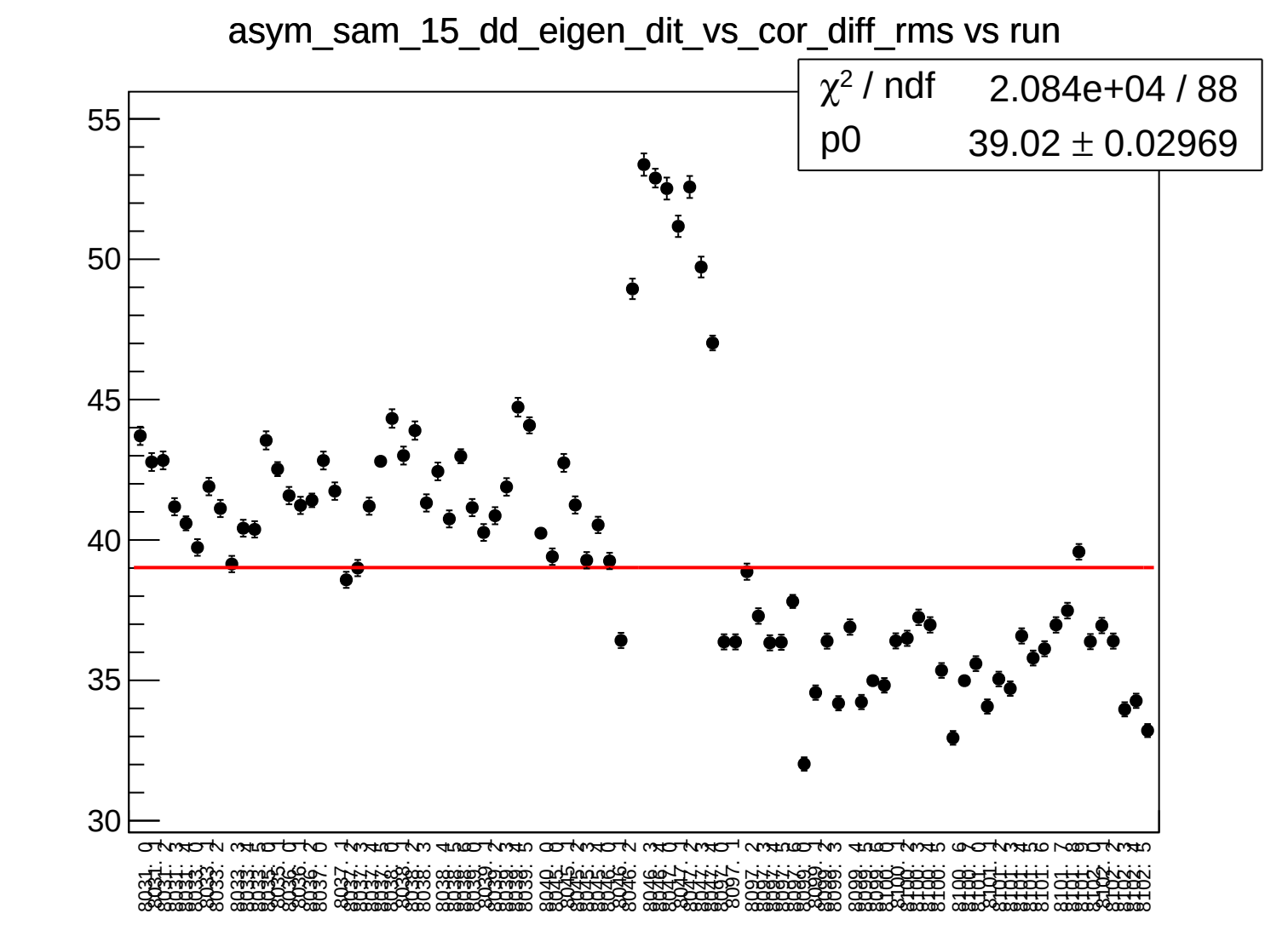

pull1D
Entries 89
Mean −0.01261
Std Dev 0.896

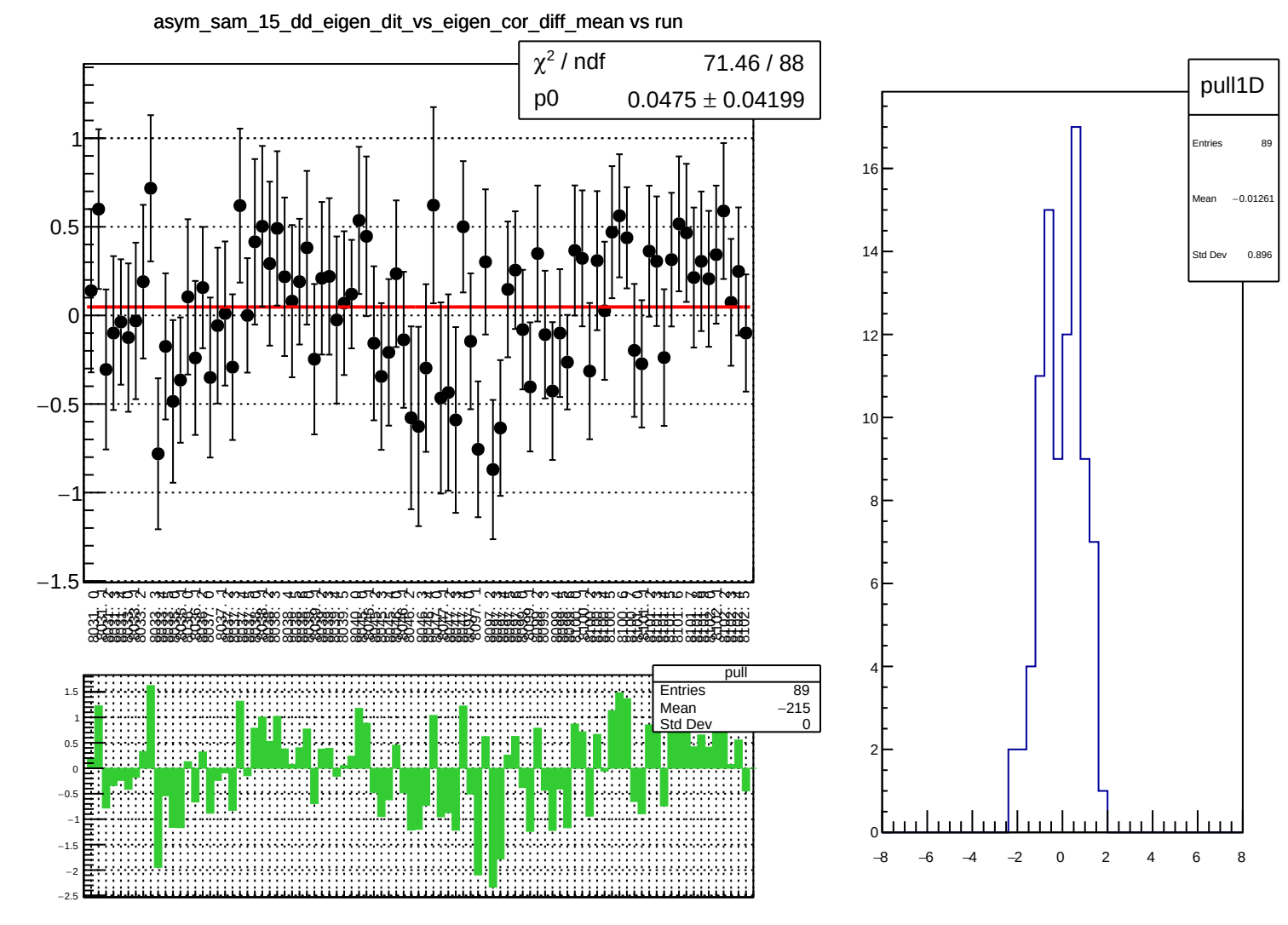

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.083e+04 / 88
p0 39.02 ± 0.02969
55
50
45
40
35
30

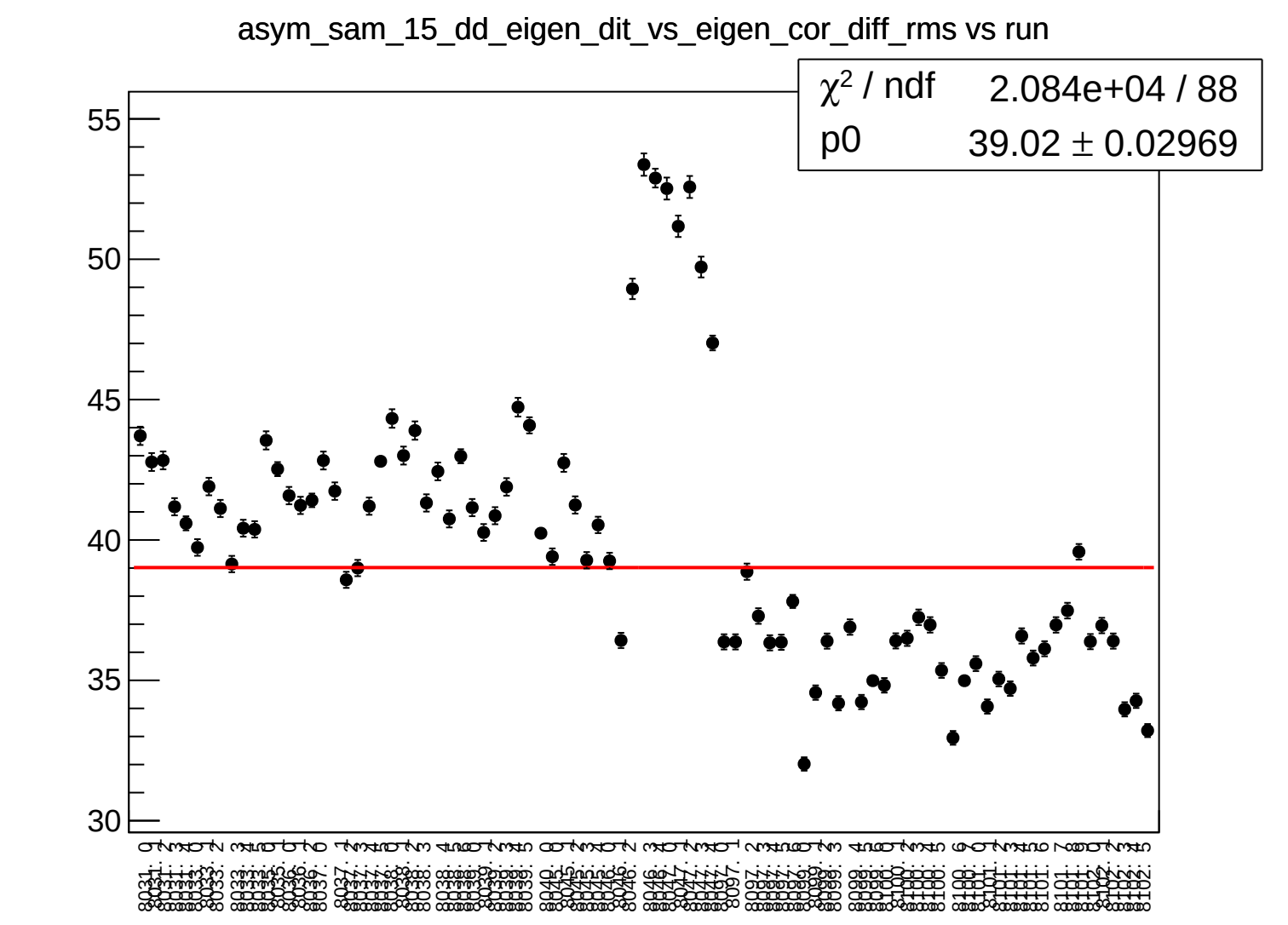

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.21 / 88
p0 2.141e−07 ± 7.746e−07
0.1
0.05
0
−0.05
−0.1
pull
Entries 89
Mean 54.56
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean 0.05073
Std Dev 0.9539
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

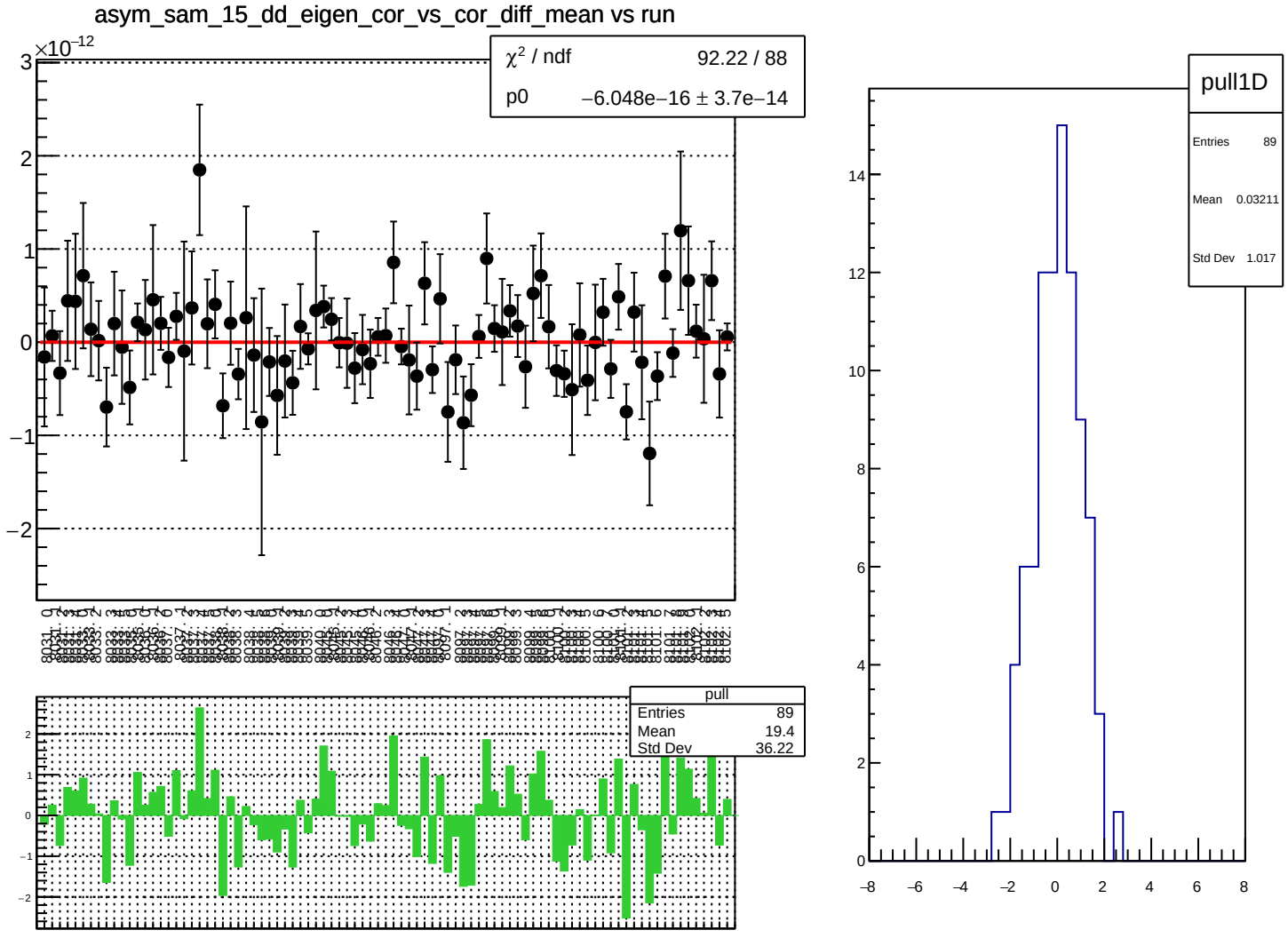

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.841e+05 / 88
p0 0.0006156 ± 5.477e−07
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005

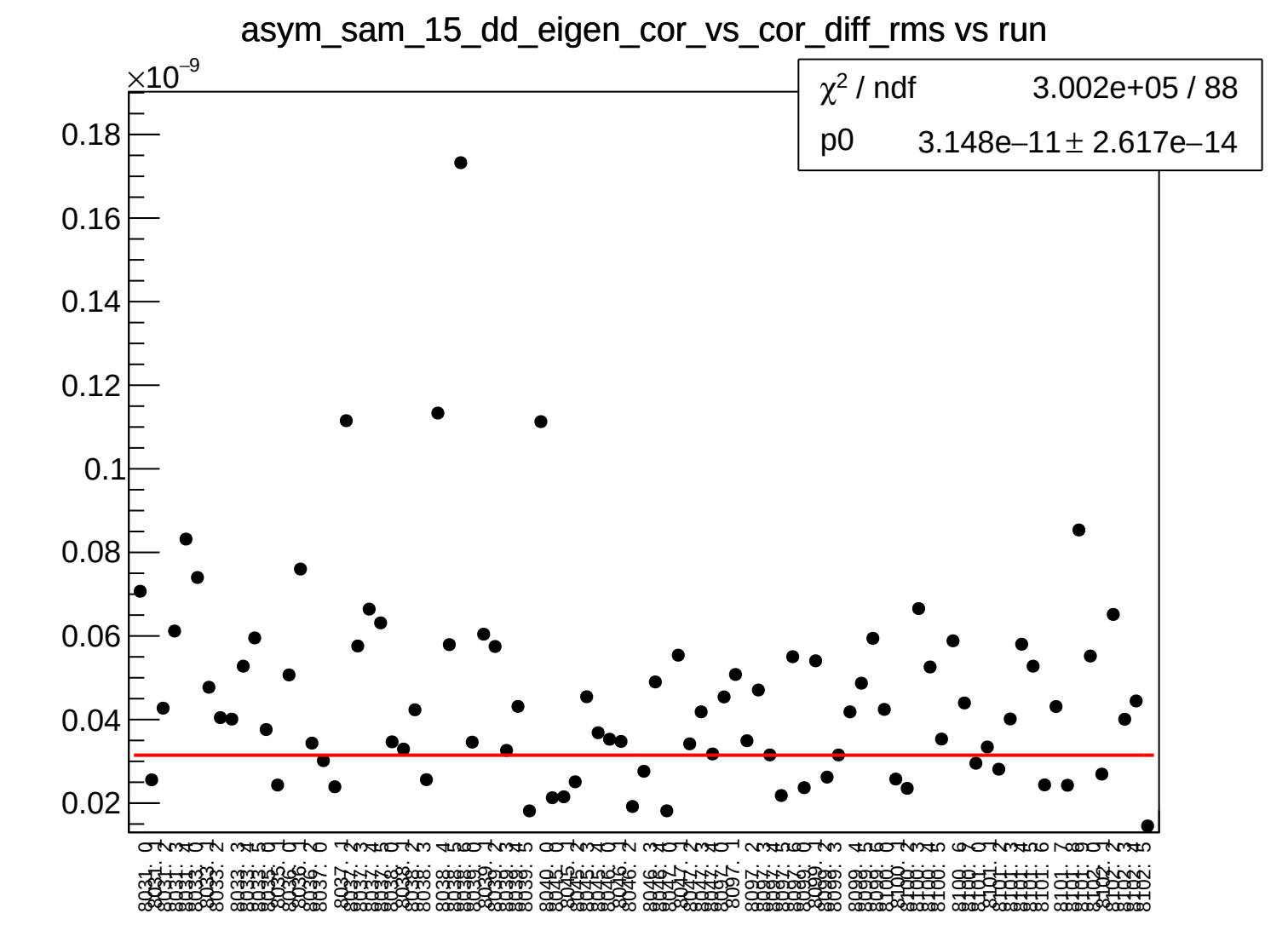

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.46 / 88
p0 0.0475 ± 0.04199
pull
Entries 89
Mean −215
Std Dev 0
pull1D
Entries 89
Mean −0.01261
Std Dev 0.896

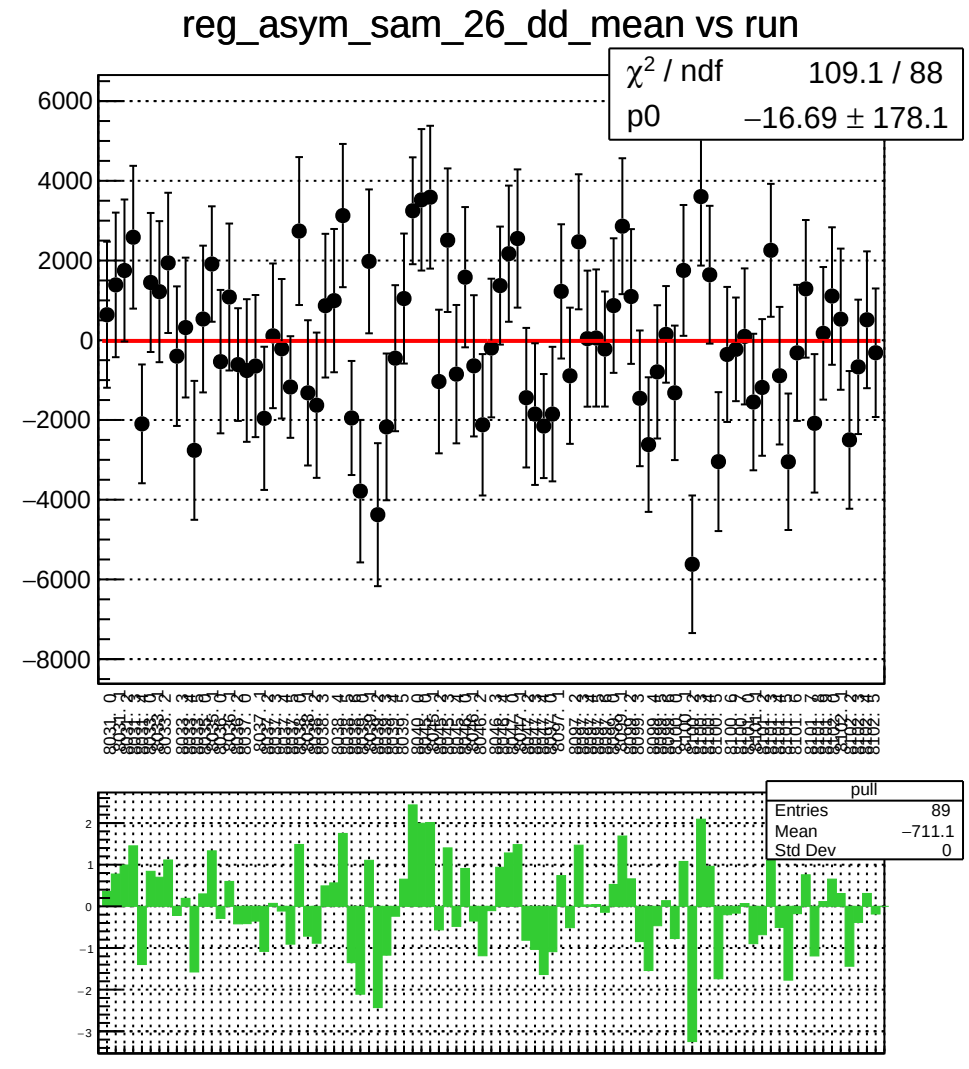

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.084e+04 / 88
p0 39.02 ± 0.02969
55
50
45
40
35
30

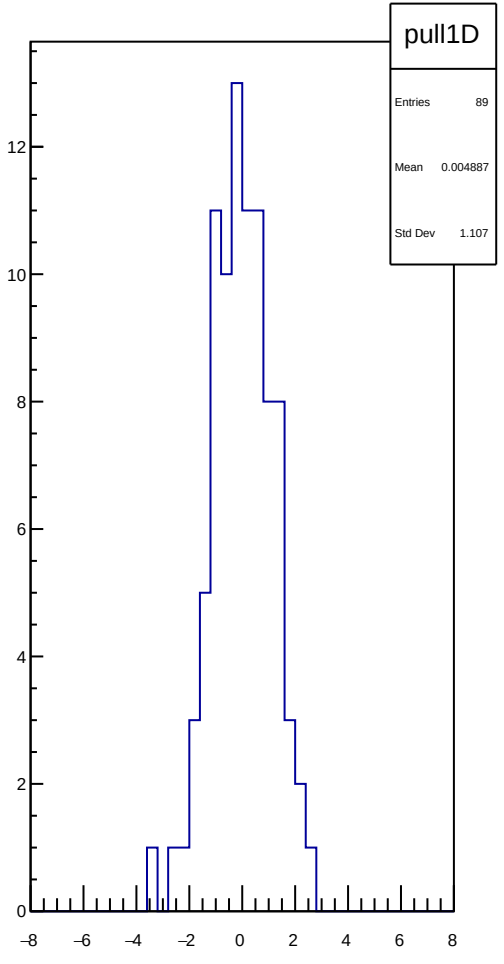

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.46 / 88
p0 0.0475 ± 0.04199
pull
Entries 89
Mean −215
Std Dev 0
pull1D
Entries 89
Mean −0.01261
Std Dev 0.896

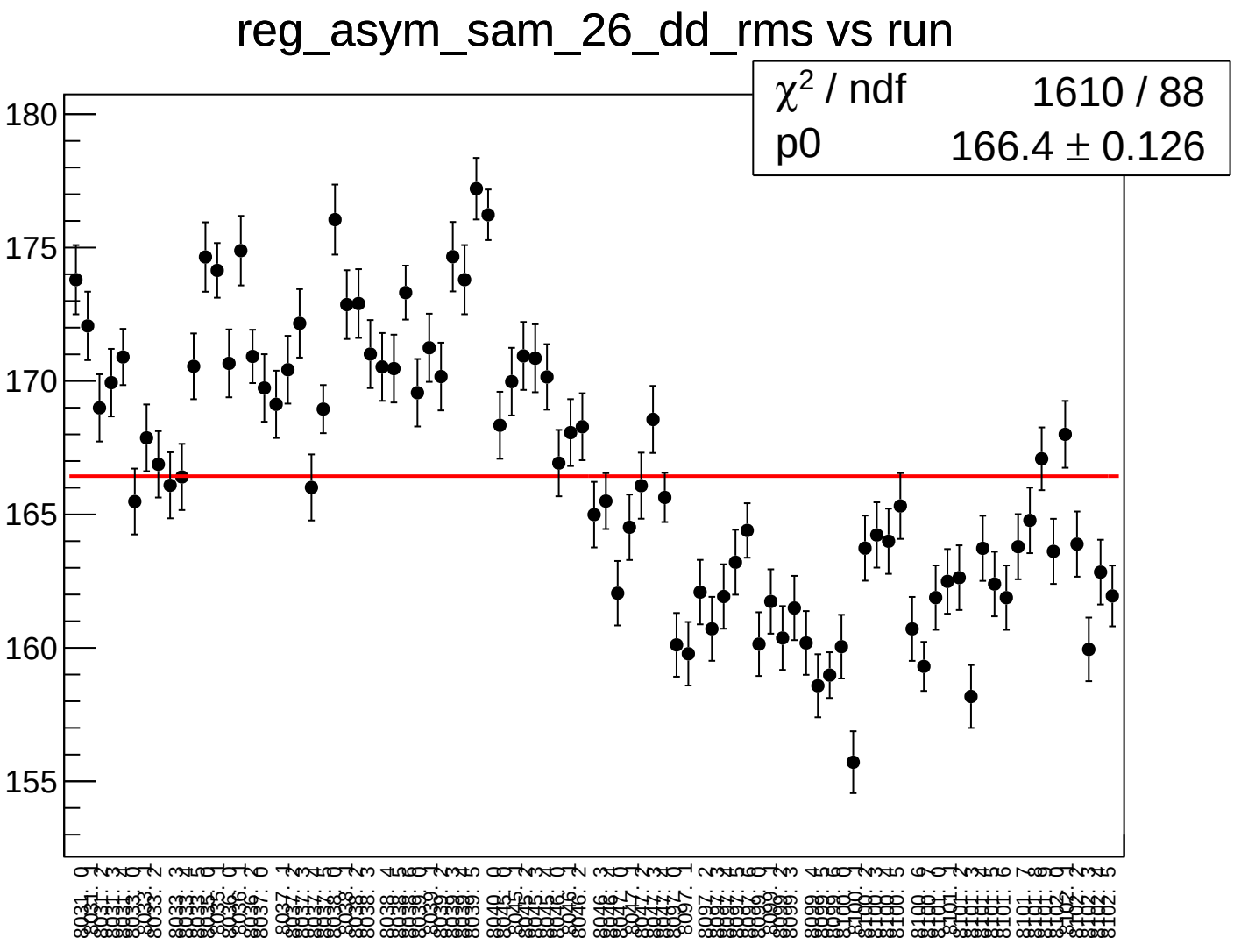

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.084e+04 / 88
p0 39.02 ± 0.02969
55
50
45
40
35
30

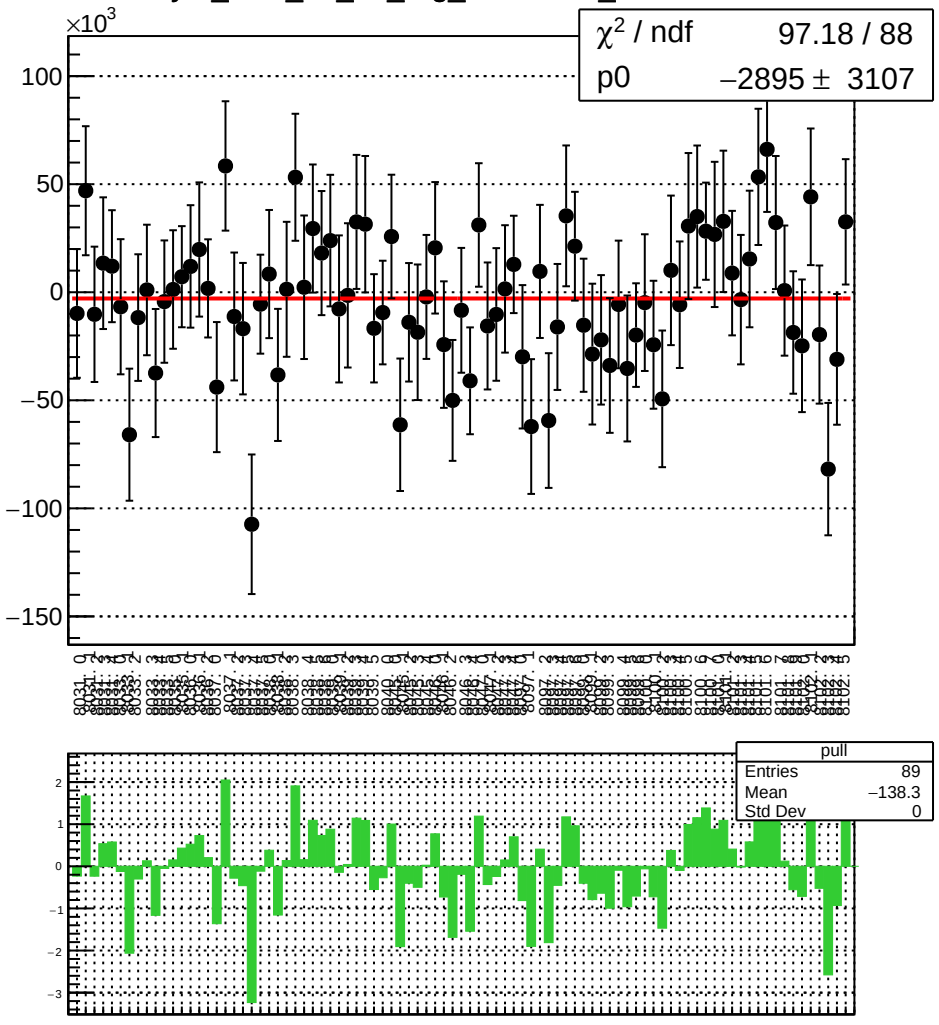

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.22 / 88
p0 −6.048e−16 ± 3.7e−14
pull
Entries 89
Mean 19.4
Std Dev 36.22
pull1D
Entries 89
Mean 0.03211
Std Dev 1.017

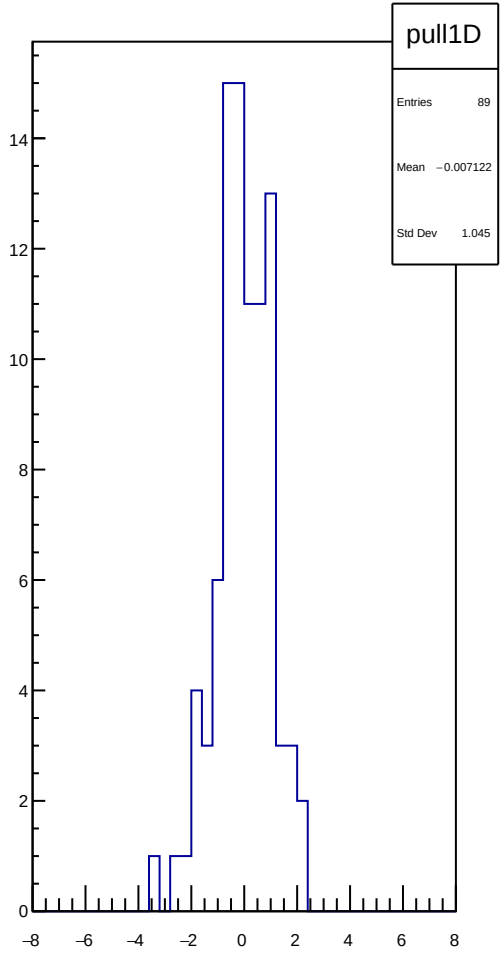

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.002e+05 / 88
p0 3.148e−11 ± 2.617e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

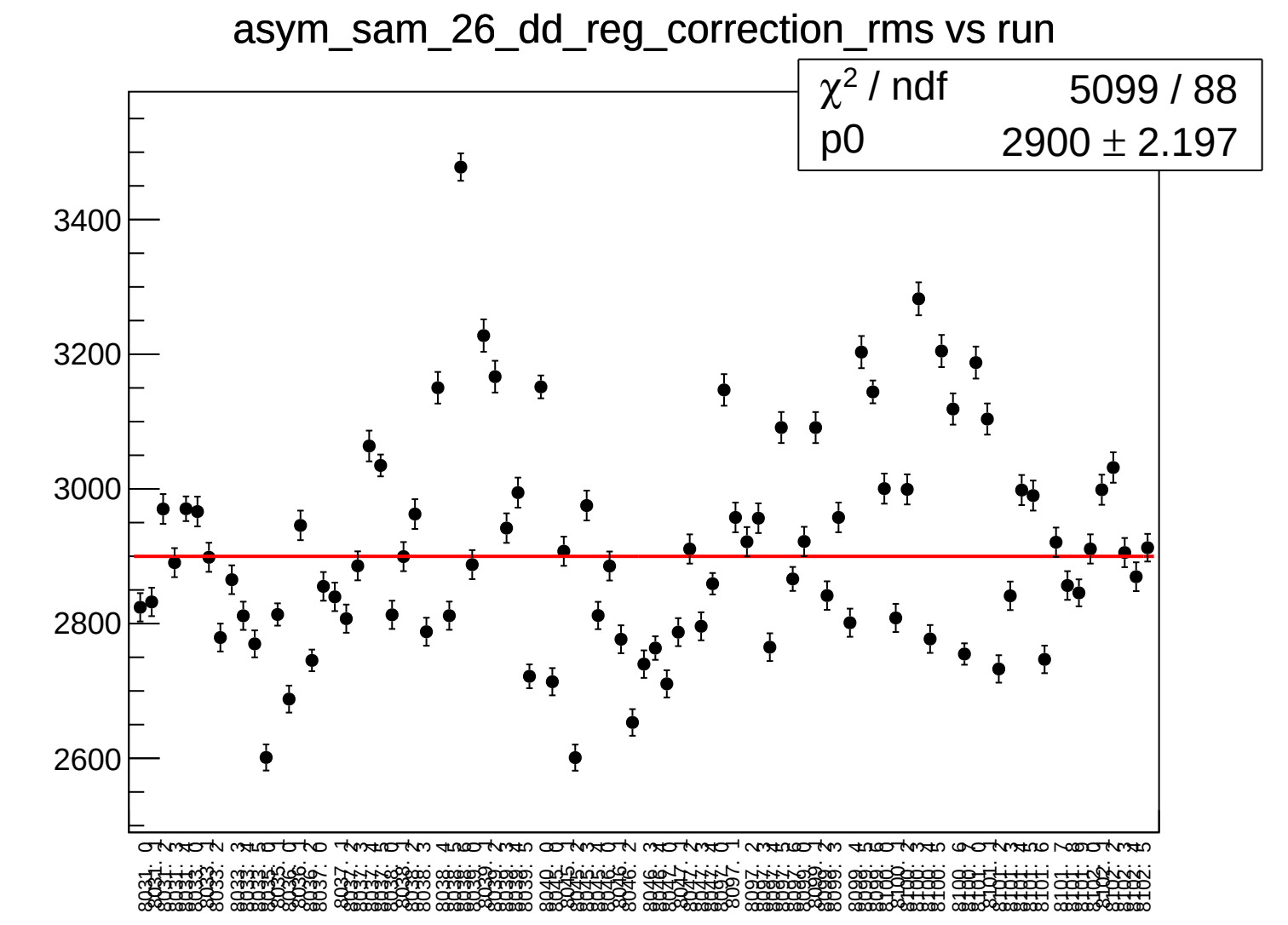

reg_asym_sam_26_dd_mean vs run
χ² / ndf 109.1 / 88
p0 −16.69 ± 178.1
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 89
Mean −711.1
Std Dev 0
2
1
0
−1
−2
−3

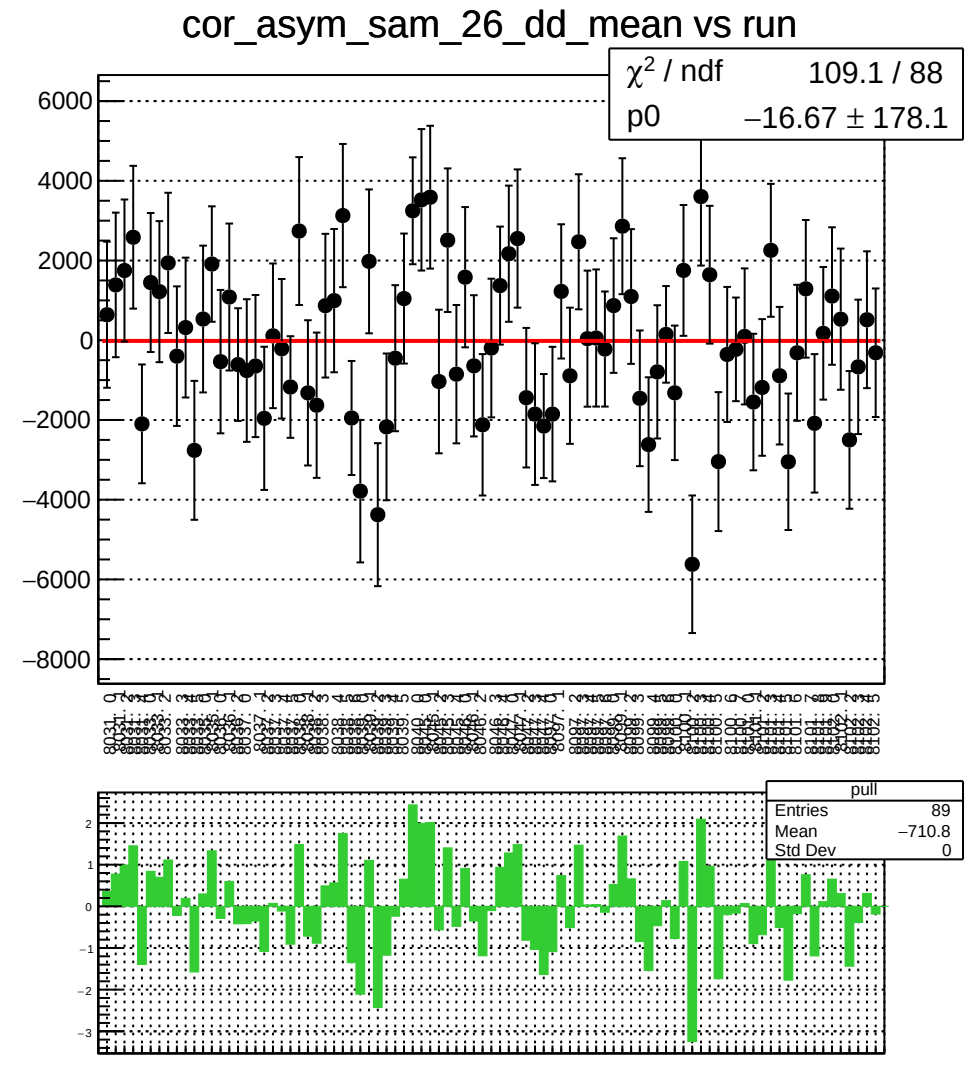

pull1D
Entries 89
Mean 0.004887
Std Dev 1.107
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

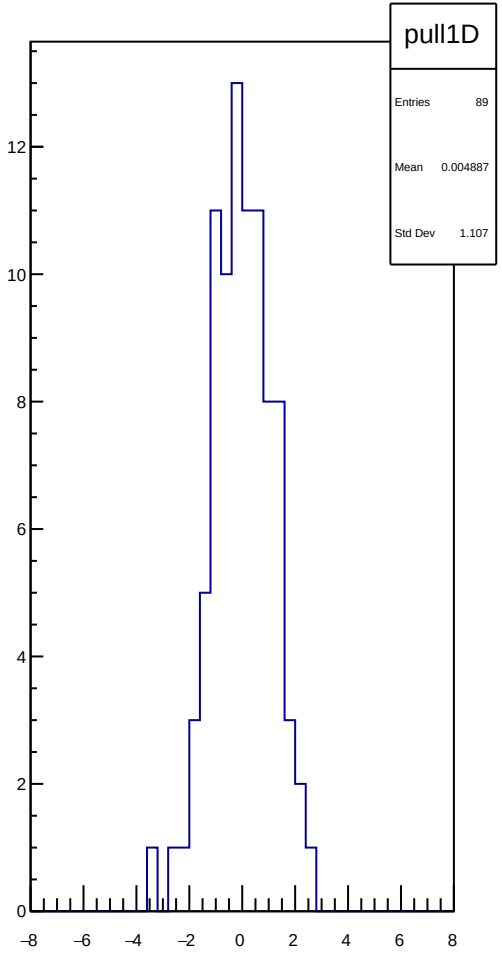

reg_asym_sam_26_dd_rms vs run
χ² / ndf 1610 / 88
p0 166.4 ± 0.126
180
175
170
165
160
155

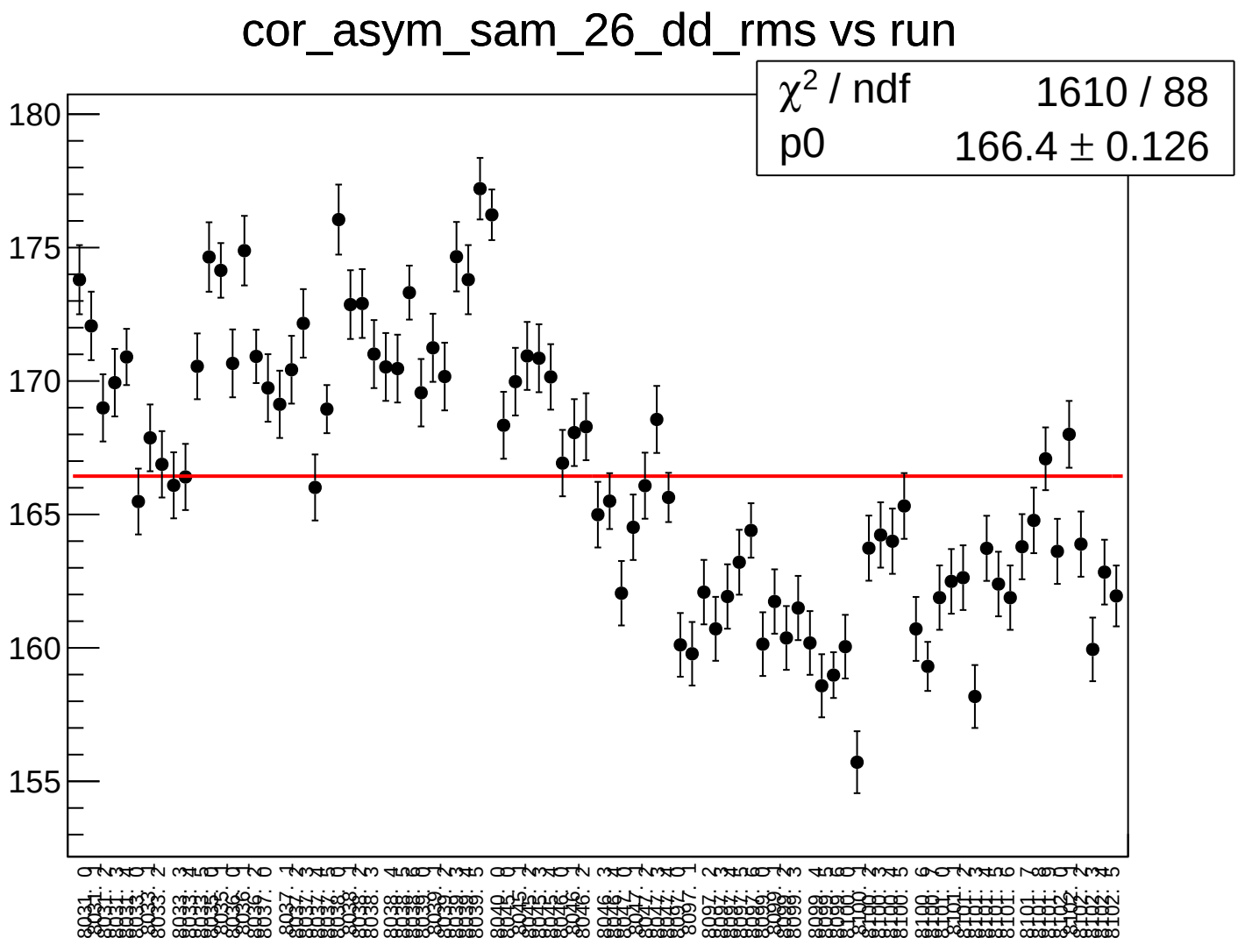

asym_sam_26_dd_reg_correction_mean vs run
×10^3
χ² / ndf 97.18 / 88
p0 −2895 ± 3107
100
50
0
−50
−100
−150
pull
Entries 89
Mean −138.3
Std Dev 0
2
1
0
−1
−2
−3

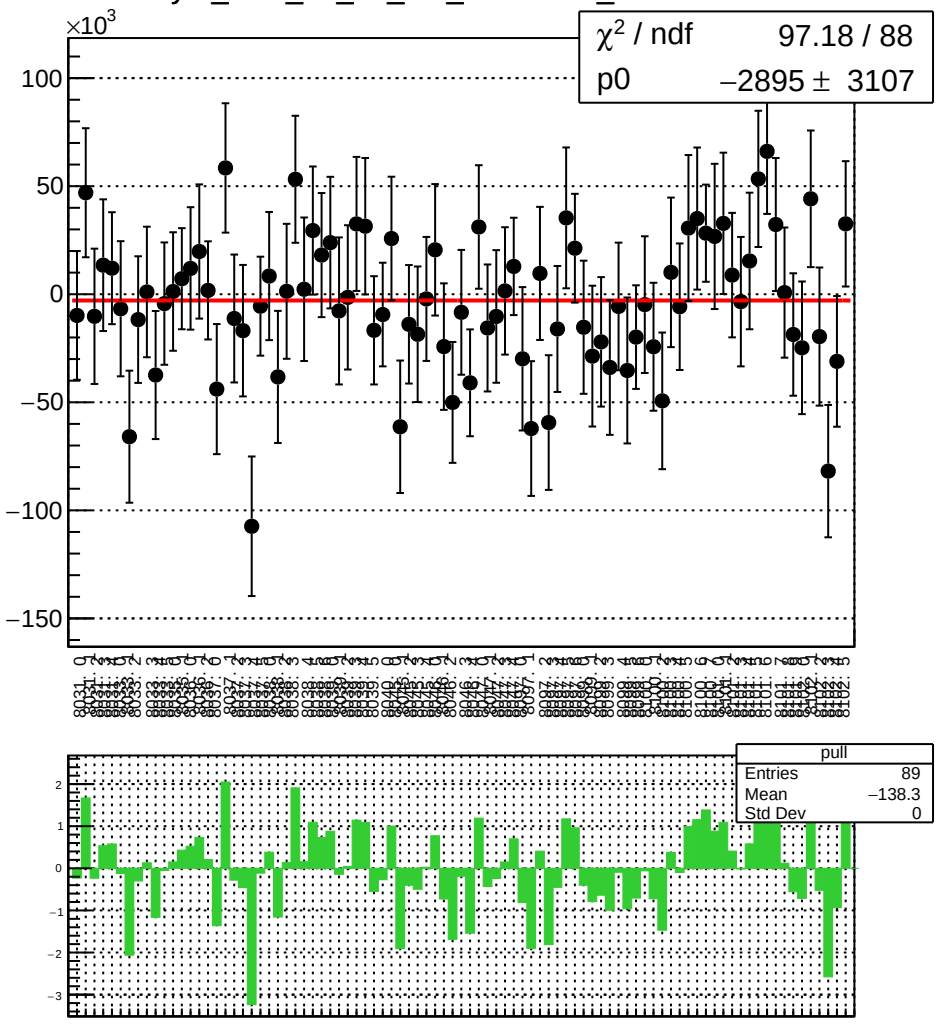

pull1D
Entries 89
Mean −0.007122
Std Dev 1.045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

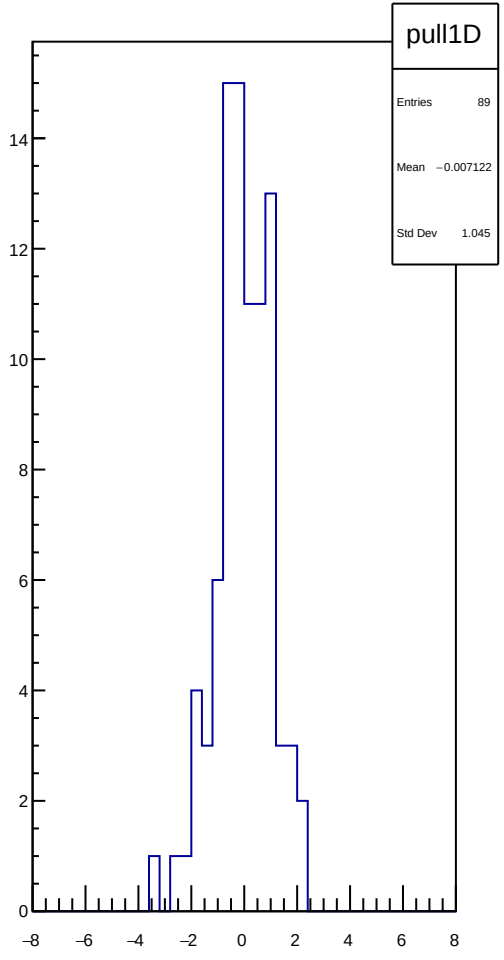

asym_sam_26_dd_reg_correction_rms vs run
χ² / ndf 5099 / 88
p0 2900 ± 2.197
3400
3200
3000
2800
2600

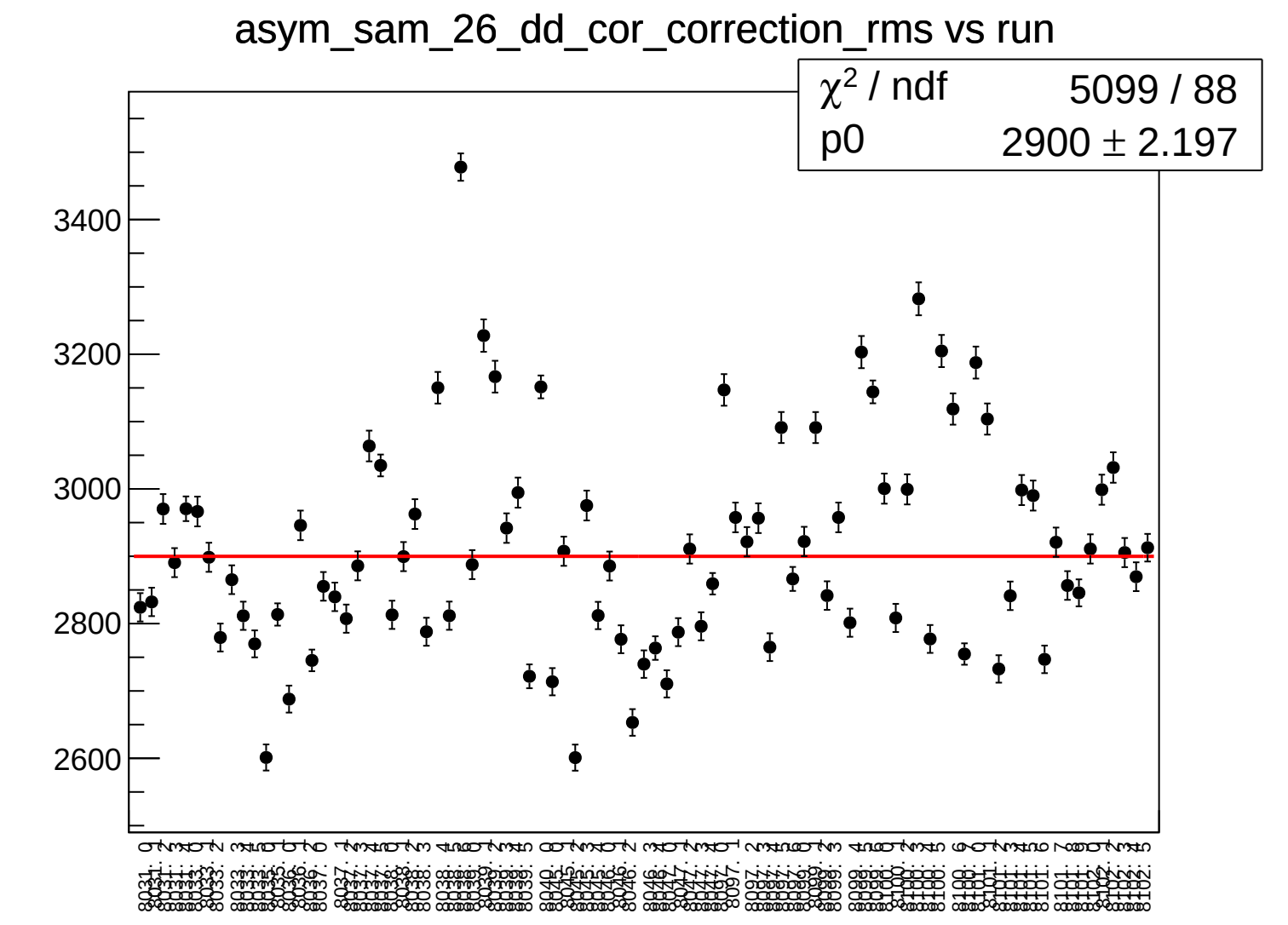

cor_asym_sam_26_dd_mean vs run
χ² / ndf 109.1 / 88
p0 −16.67 ± 178.1
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 89
Mean −710.8
Std Dev 0
2
1
0
−1
−2
−3

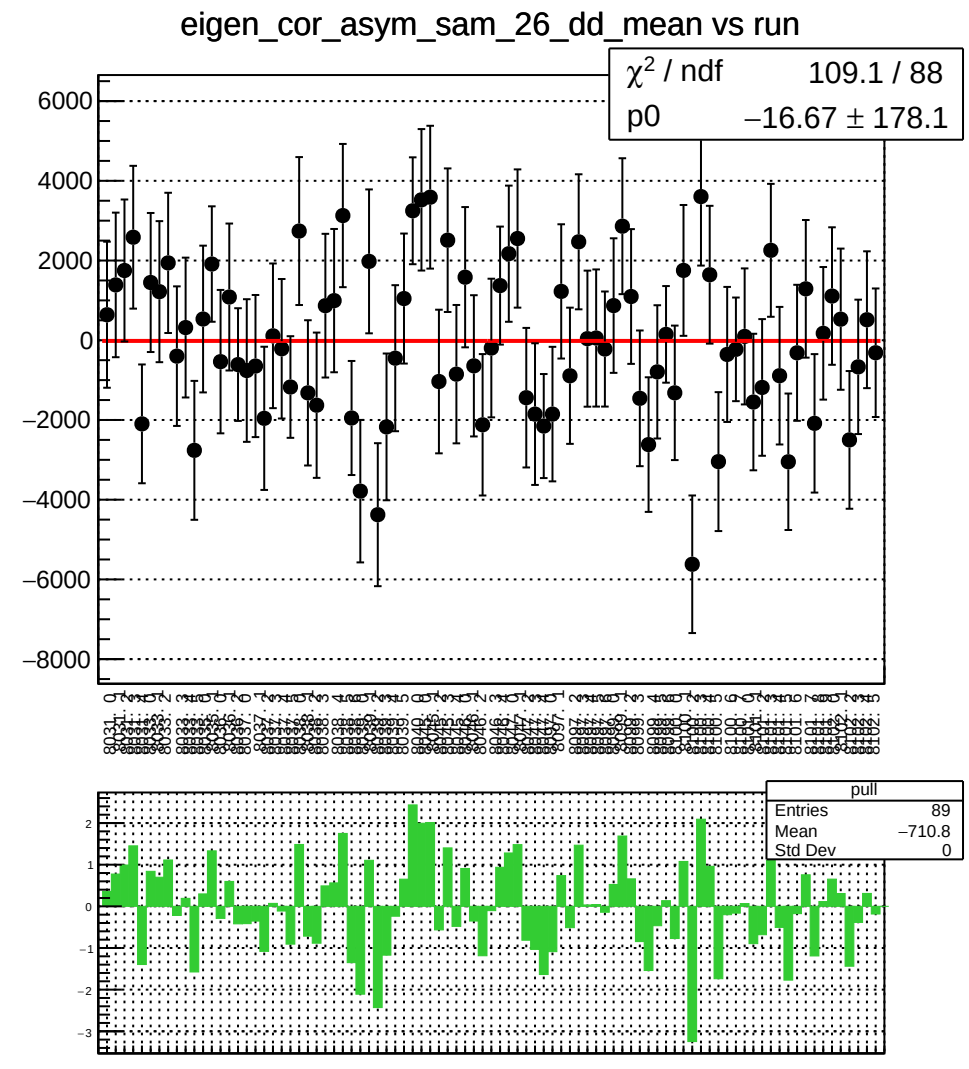

pull1D
Entries 89
Mean 0.004887
Std Dev 1.107
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

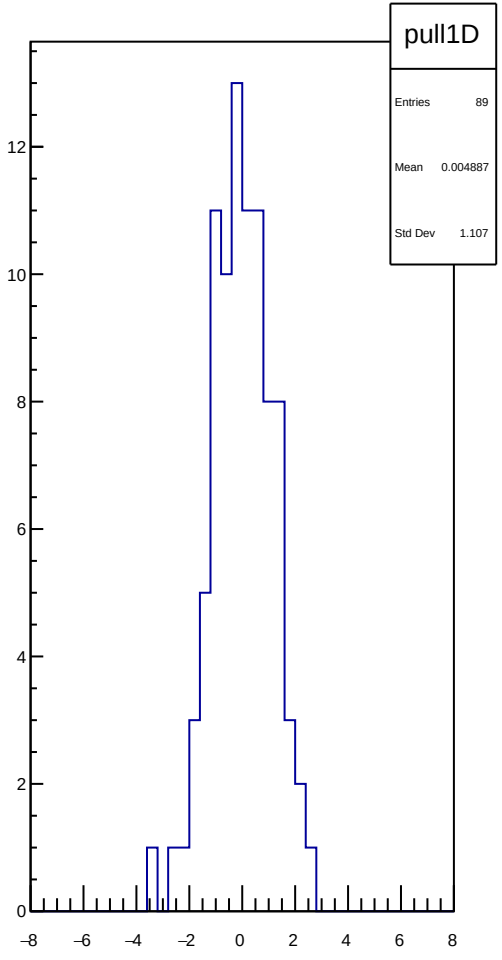

cor_asym_sam_26_dd_rms vs run
χ² / ndf 1610 / 88
p0 166.4 ± 0.126
180
175
170
165
160
155

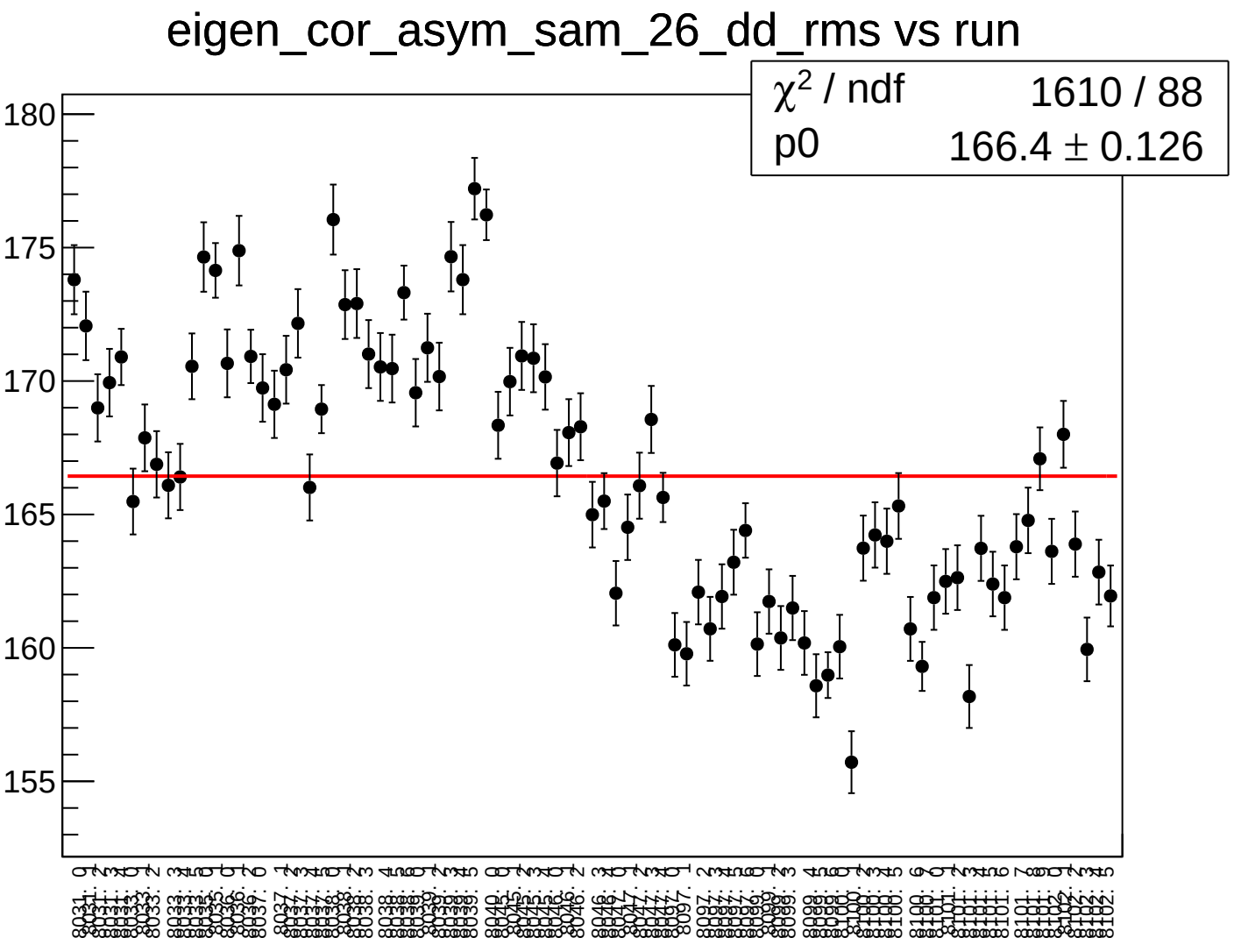

asym_sam_26_dd_cor_correction_mean vs run
×10^3
χ² / ndf 97.18 / 88
p0 −2895 ± 3107
100
50
0
−50
−100
−150
pull
Entries 89
Mean −138.3
Std Dev 0
2
1
0
−1
−2
−3

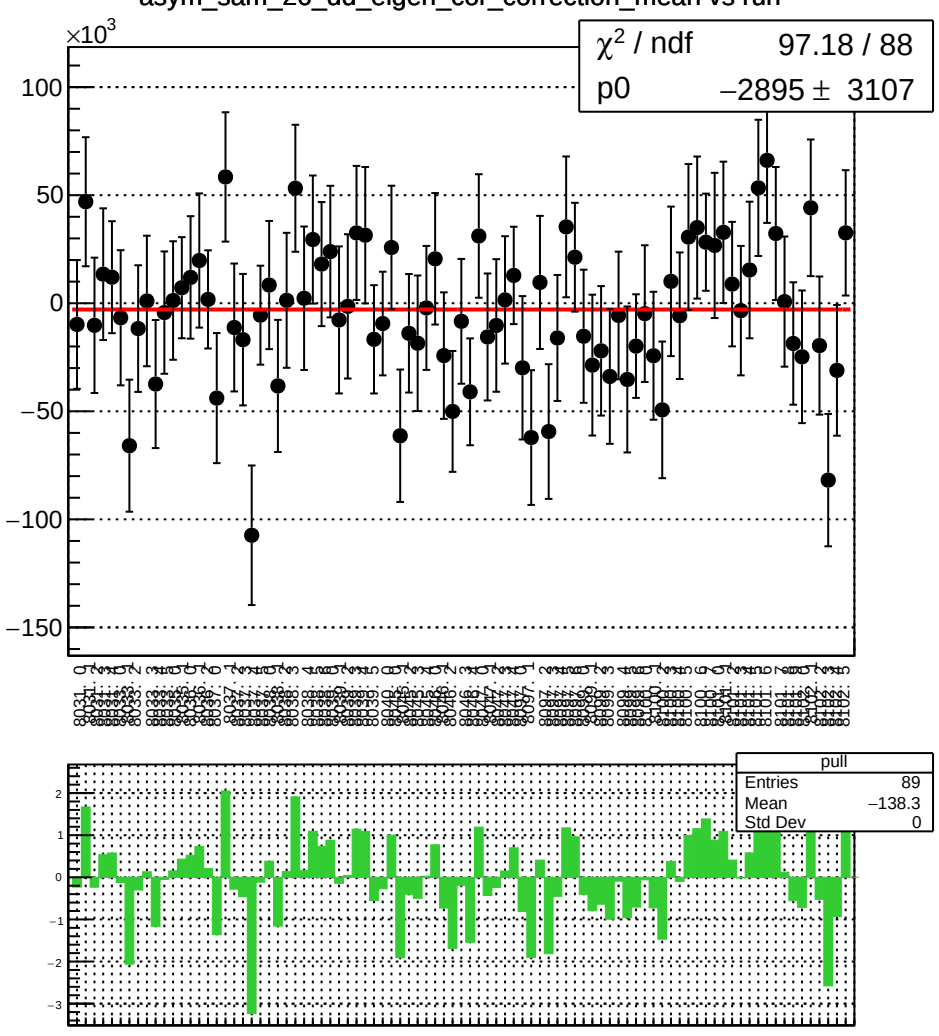

pull1D
Entries 89
Mean −0.007122
Std Dev 1.045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

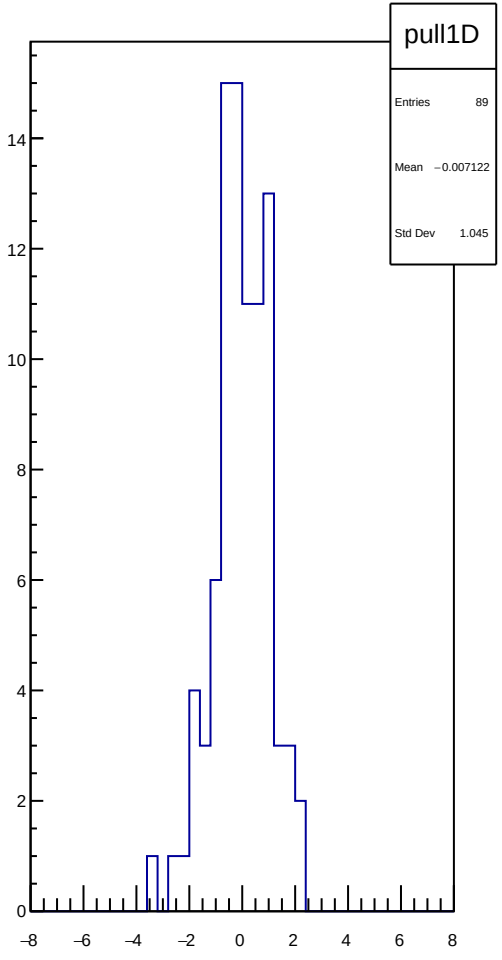

asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 5099 / 88
p0 2900 ± 2.197
3400
3200
3000
2800
2600

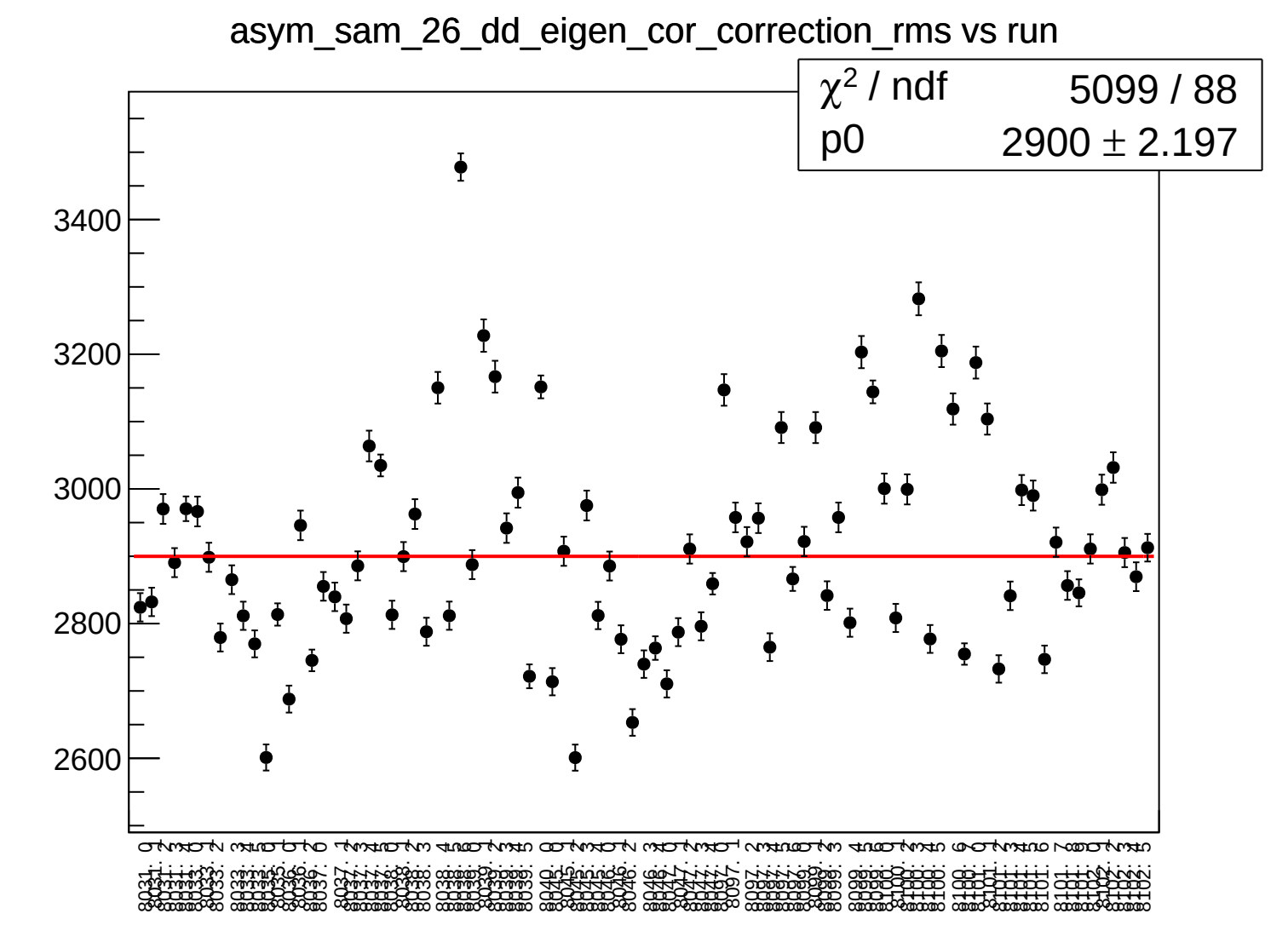

eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 109.1 / 88
p0 −16.67 ± 178.1
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 89
Mean −710.8
Std Dev 0
2
1
0
−1
−2
−3

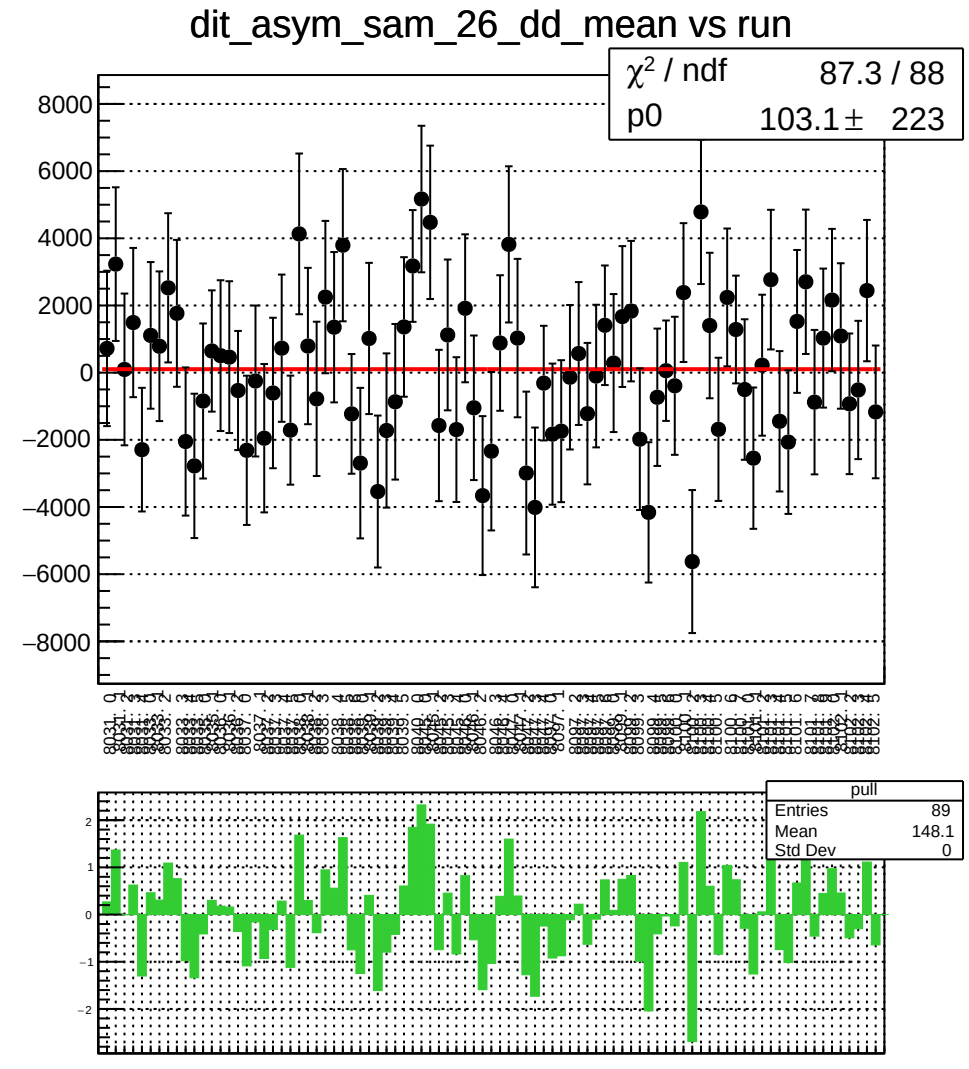

pull1D
Entries 89
Mean 0.004887
Std Dev 1.107
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

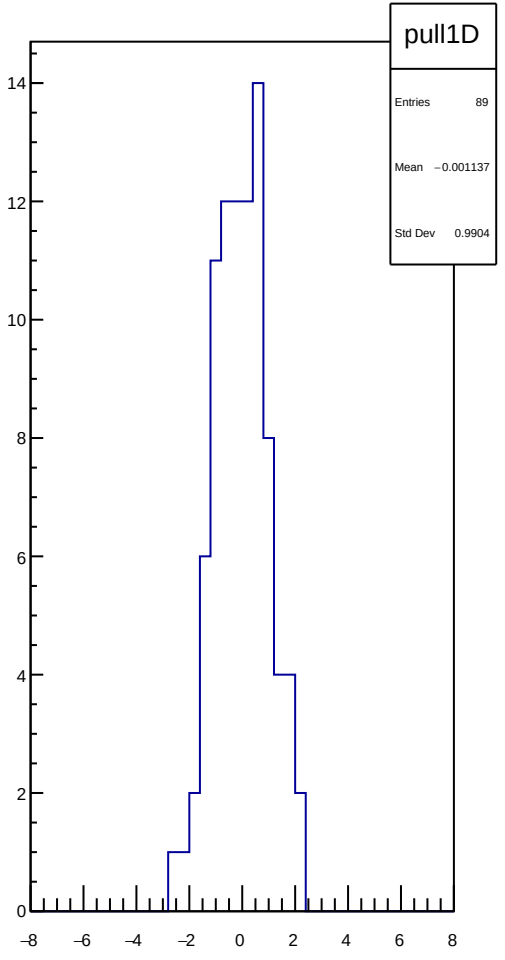

eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 1610 / 88
p0 166.4 ± 0.126
180
175
170
165
160
155

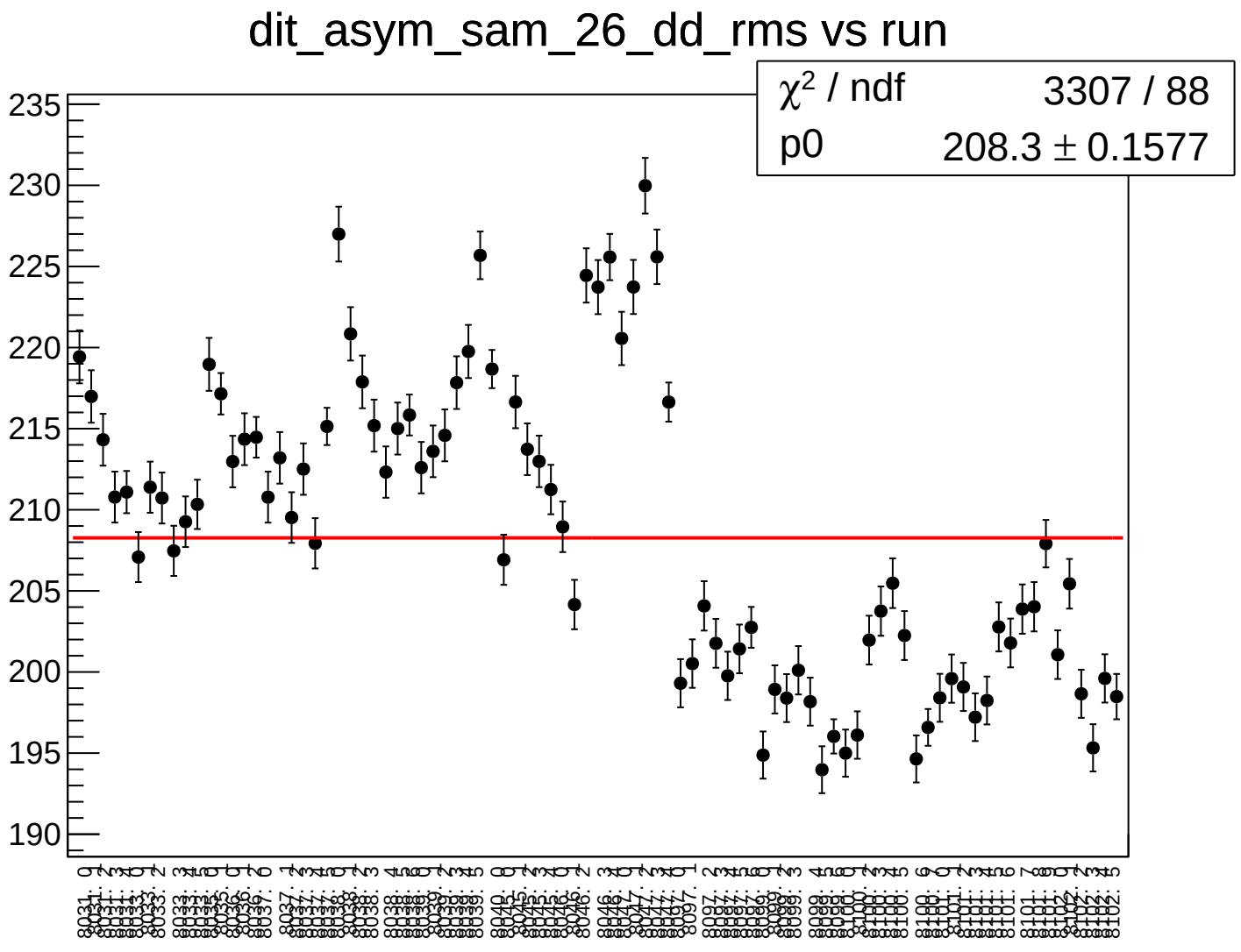

asym_sam_26_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 97.18 / 88
p0 −2895 ± 3107
pull
Entries 89
Mean −138.3
Std Dev 0

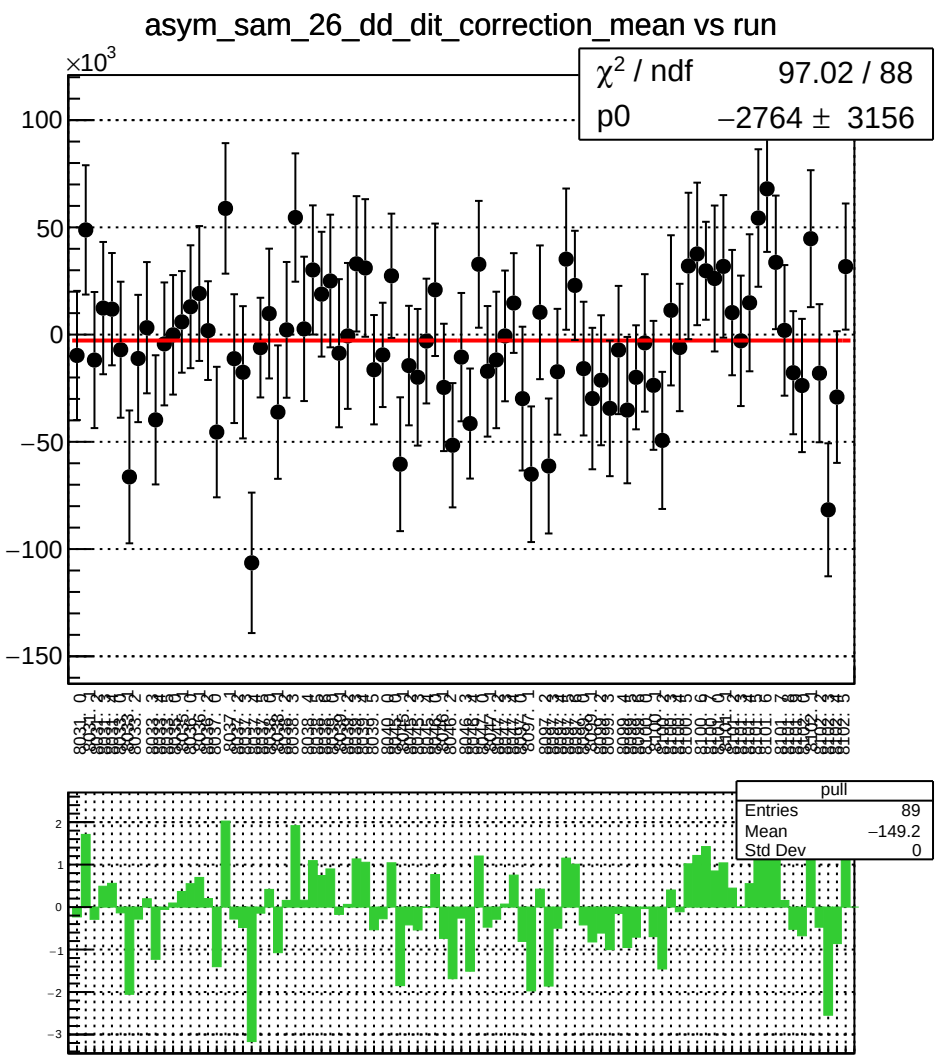

pull1D
Entries 89
Mean −0.007122
Std Dev 1.045

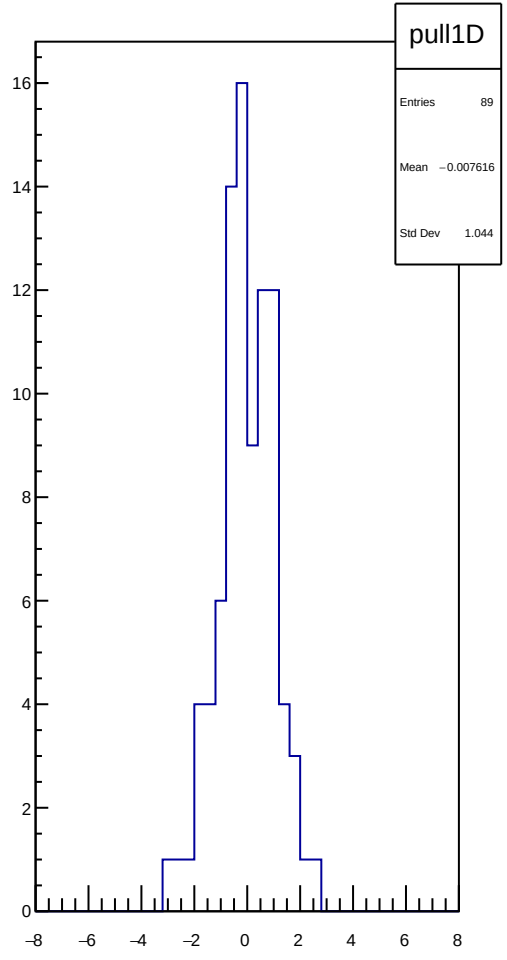

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 5099 / 88
p0 2900 ± 2.197
3400
3200
3000
2800
2600

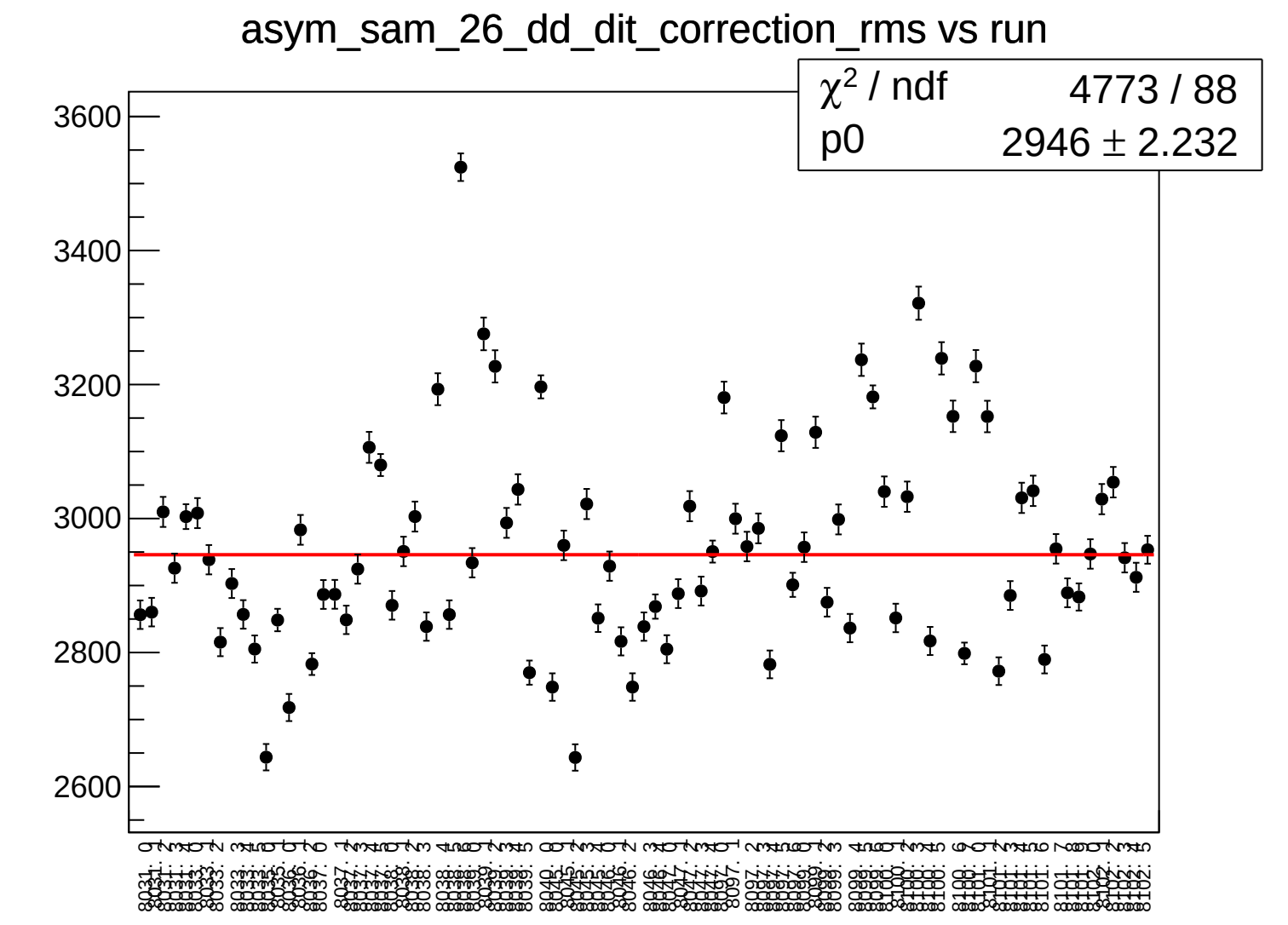

dit_asym_sam_26_dd_mean vs run
χ² / ndf 87.3 / 88
p0 103.1 ± 223
pull
Entries 89
Mean 148.1
Std Dev 0

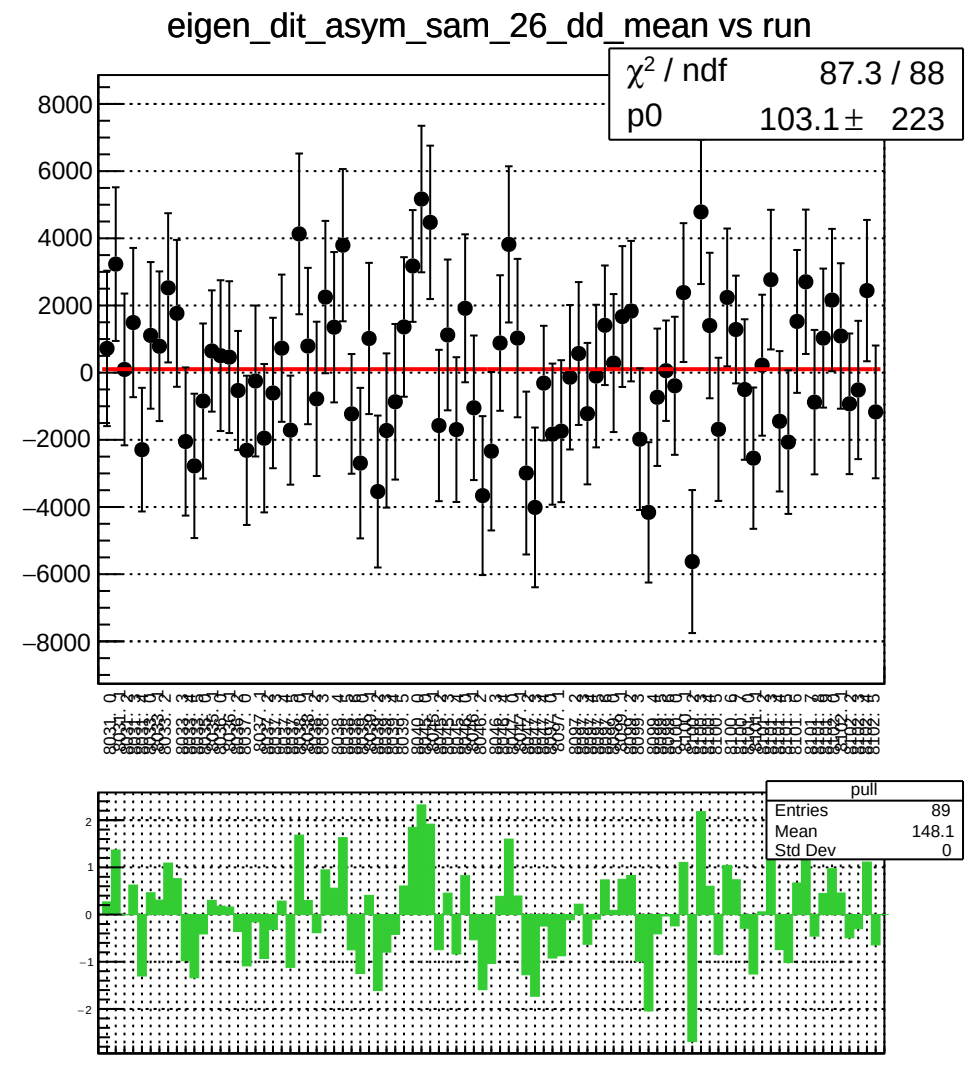

pull1D
Entries 89
Mean −0.001137
Std Dev 0.9904

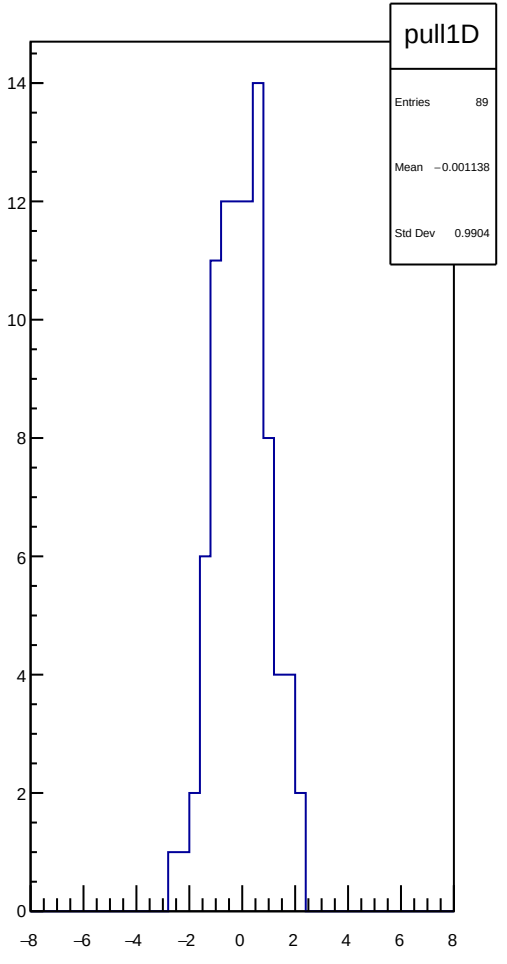

dit_asym_sam_26_dd_rms vs run
χ² / ndf 3307 / 88
p0 208.3 ± 0.1577
235
230
225
220
215
210
205
200
195
190

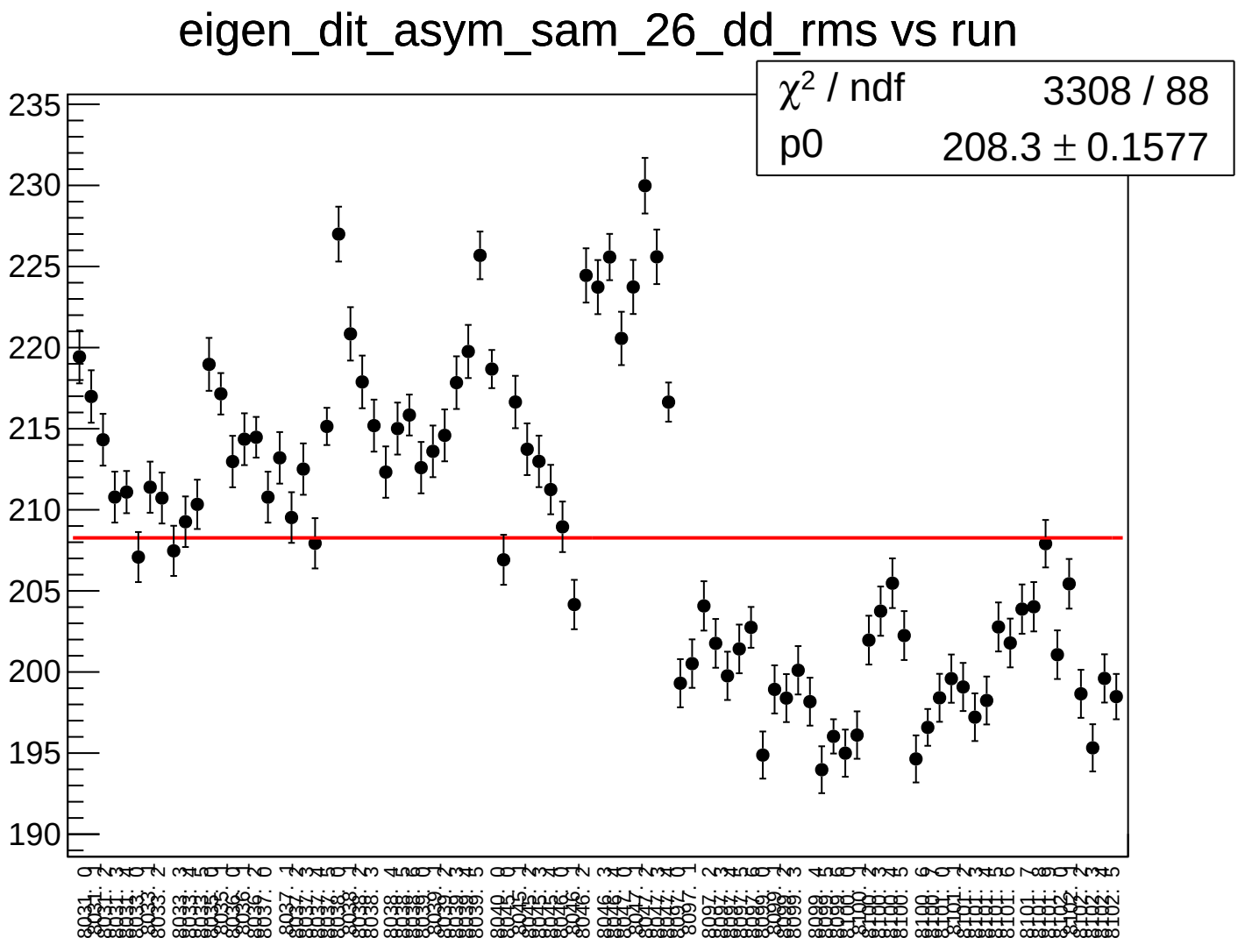

asym_sam_26_dd_dit_correction_mean vs run
×10^3
χ² / ndf 97.02 / 88
p0 −2764 ± 3156
100
50
0
−50
−100
−150
pull
Entries 89
Mean −149.2
Std Dev 0
2
1
0
−1
−2
−3

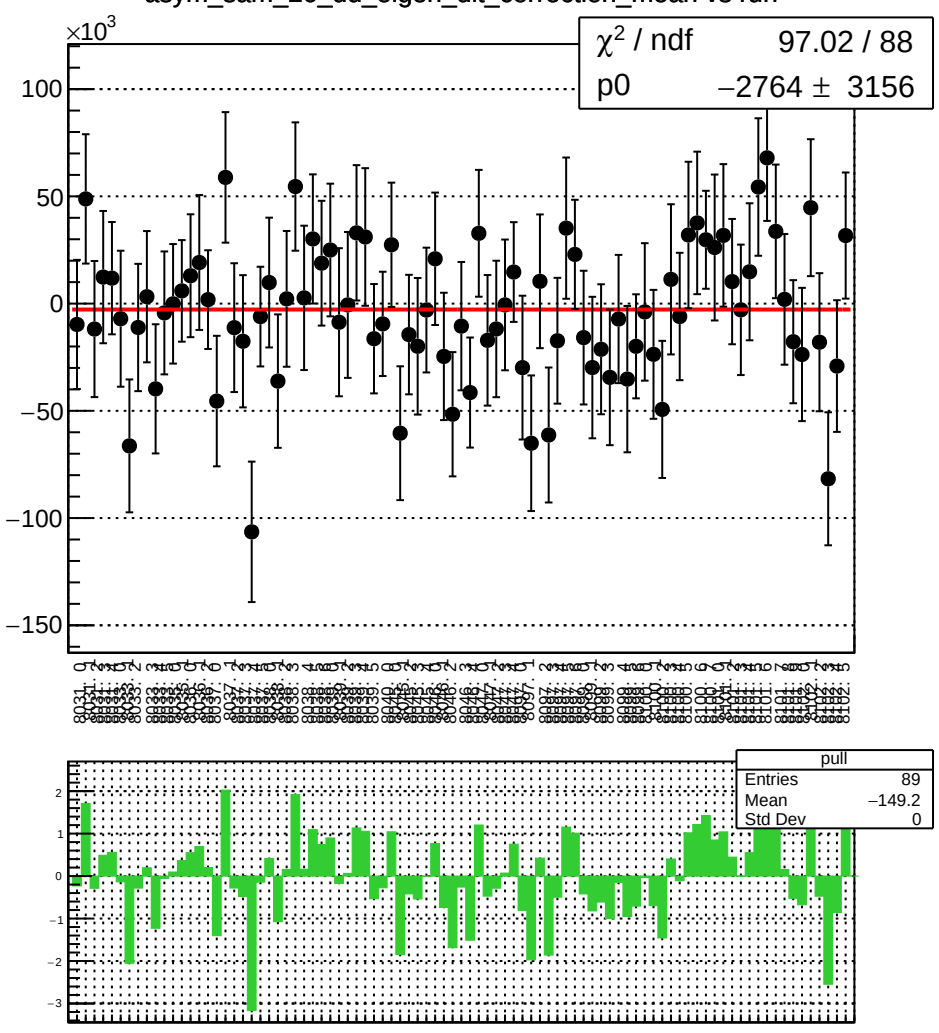

pull1D
Entries 89
Mean −0.007616
Std Dev 1.044
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

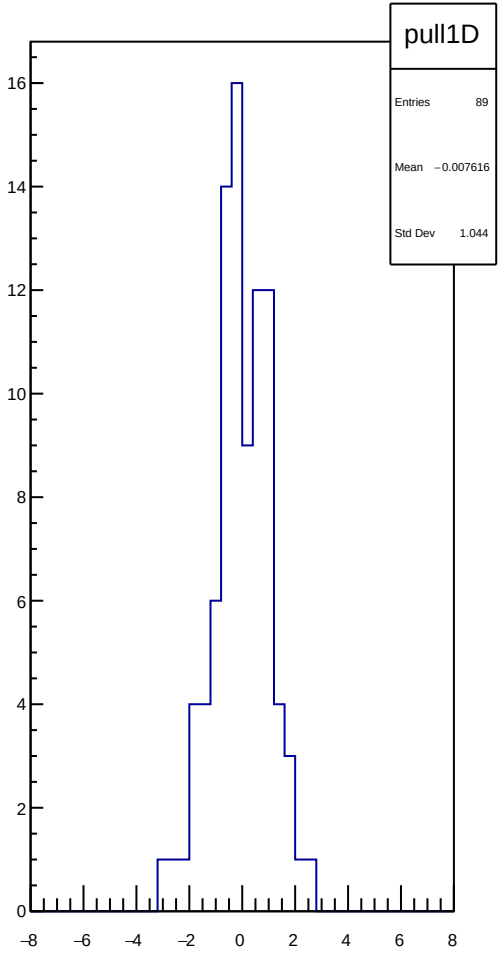

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 4773 / 88
p0 2946 ± 2.232
3600
3400
3200
3000
2800
2600

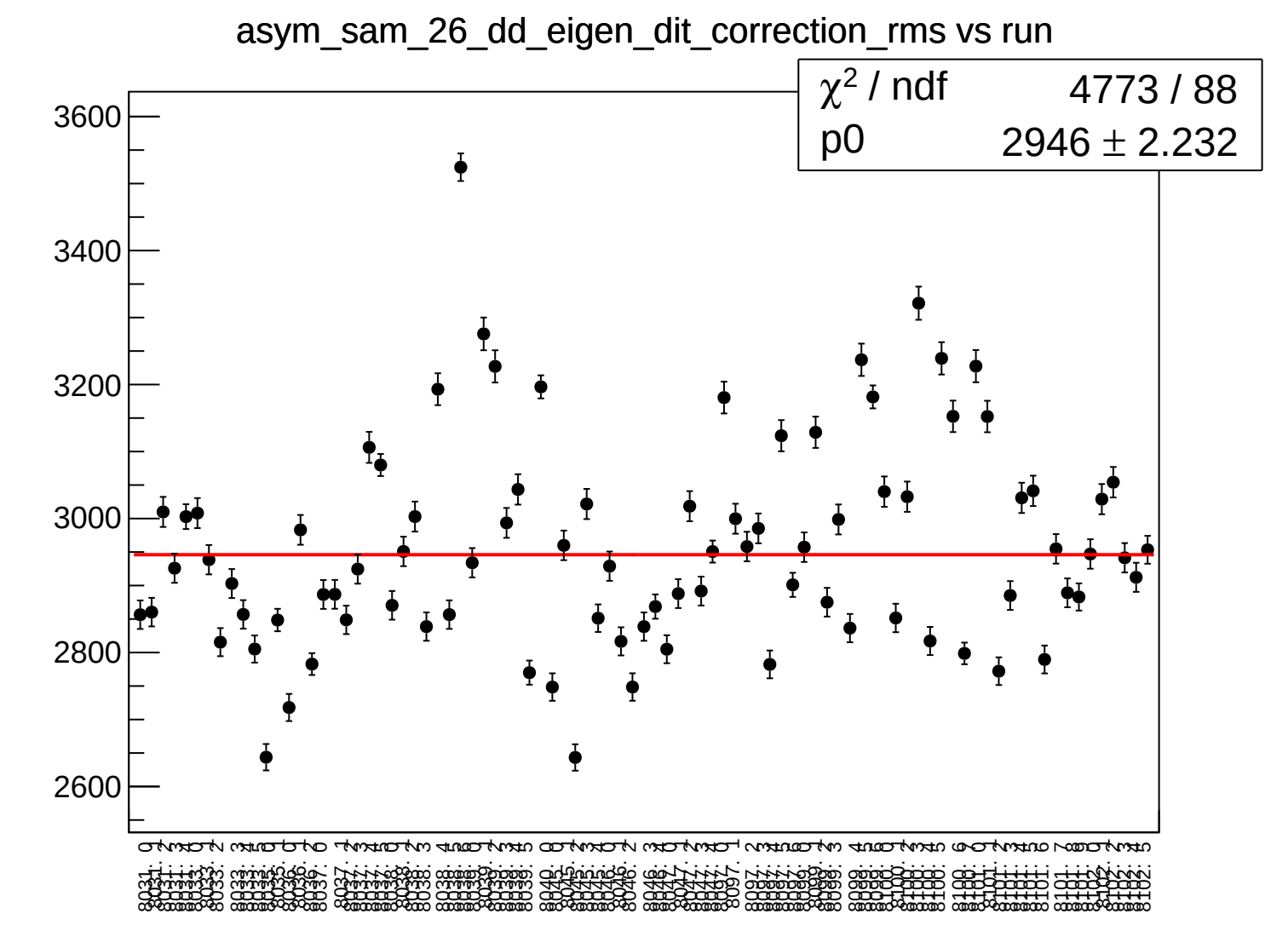

eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 87.3 / 88
p0 103.1 ± 223
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 89
Mean 148.1
Std Dev 0
2
1
0
−1
−2

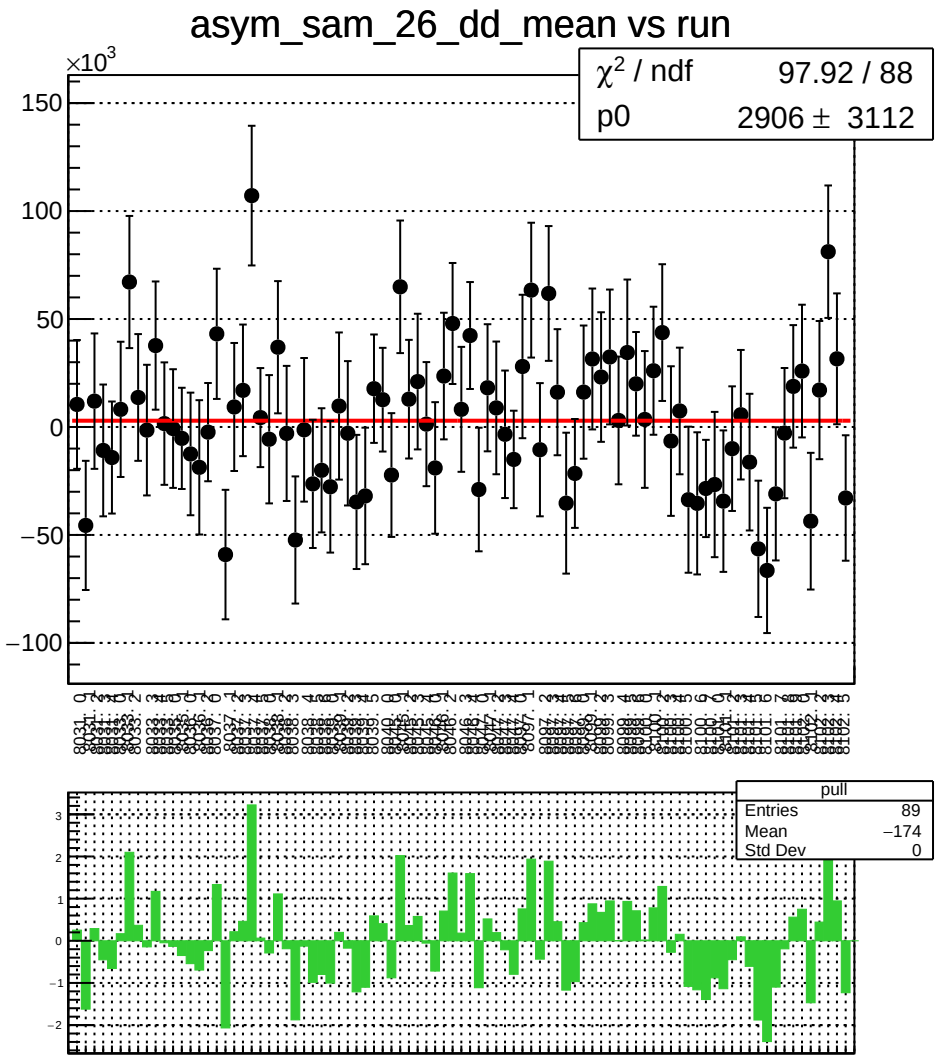

pull1D
Entries 89
Mean −0.001138
Std Dev 0.9904
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

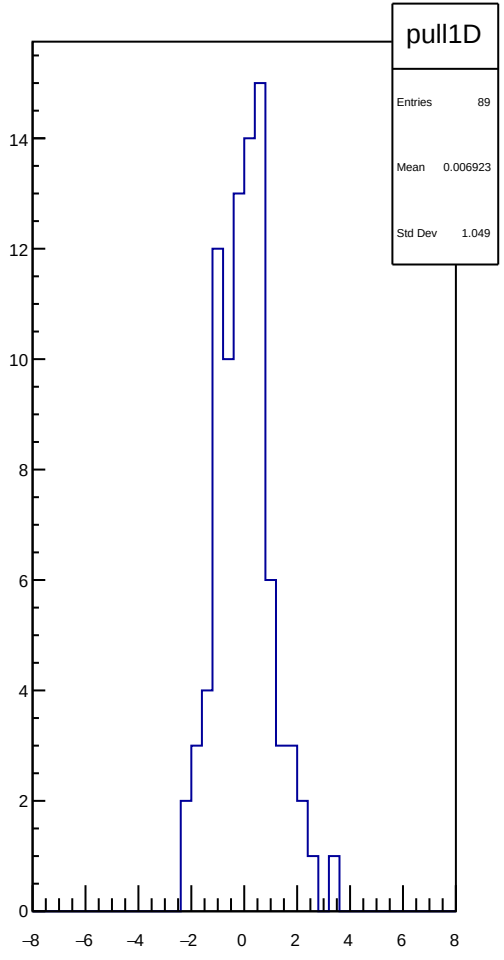

eigen_dit_asym_sam_26_dd_rms vs run
χ² / ndf 3308 / 88
p0 208.3 ± 0.1577
235
230
225
220
215
210
205
200
195
190

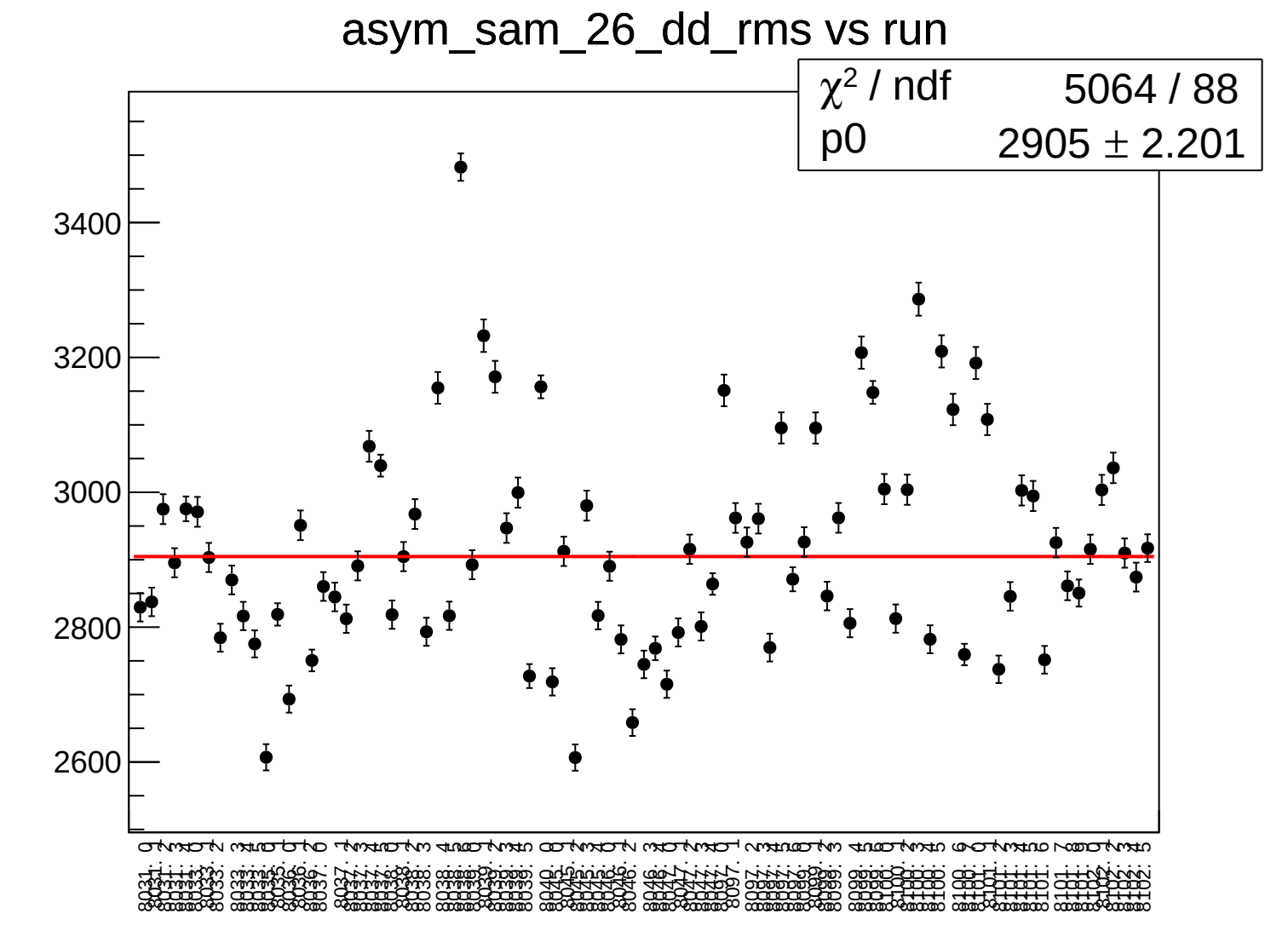

asym_sam_26_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 97.02 / 88
p0 −2764 ± 3156
100
50
0
−50
−100
−150
pull
Entries 89
Mean −149.2
Std Dev 0
2
1
0
−1
−2
−3

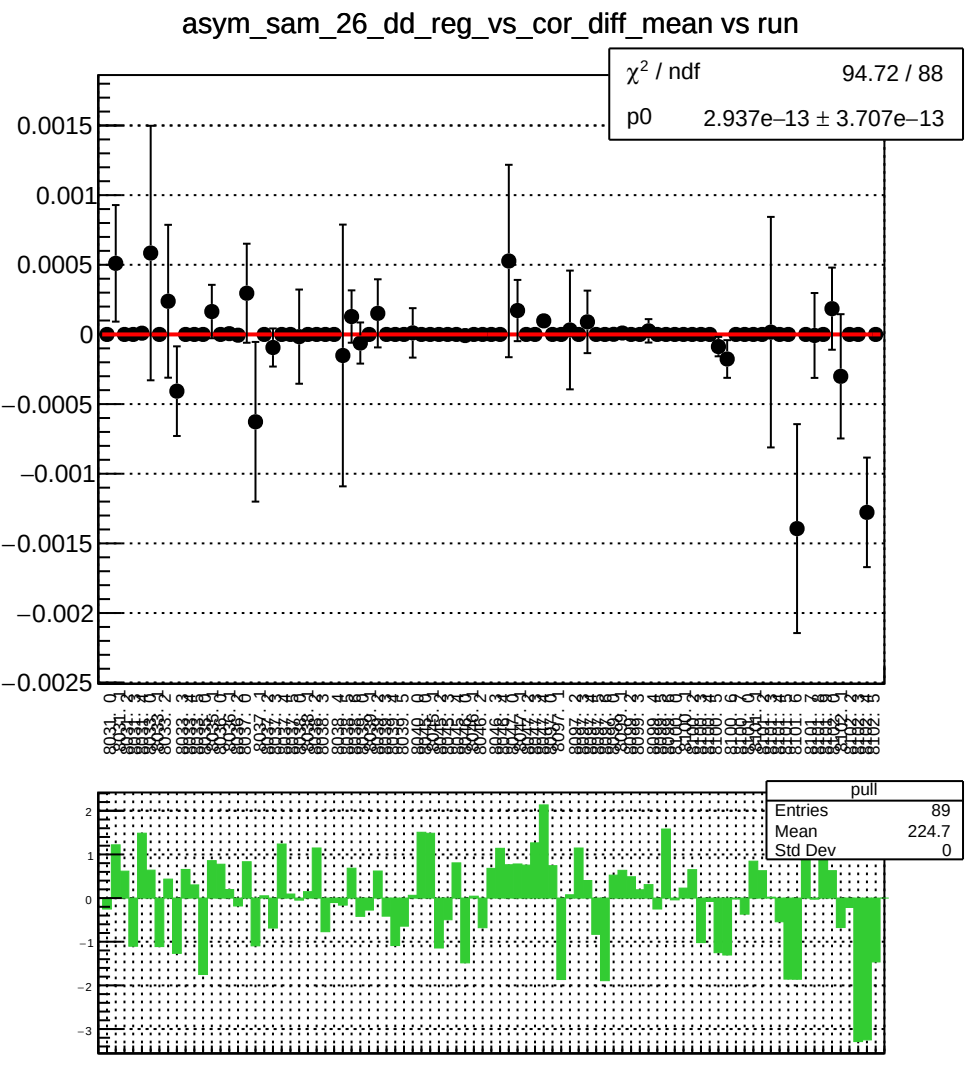

pull1D
Entries 89
Mean −0.007616
Std Dev 1.044
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

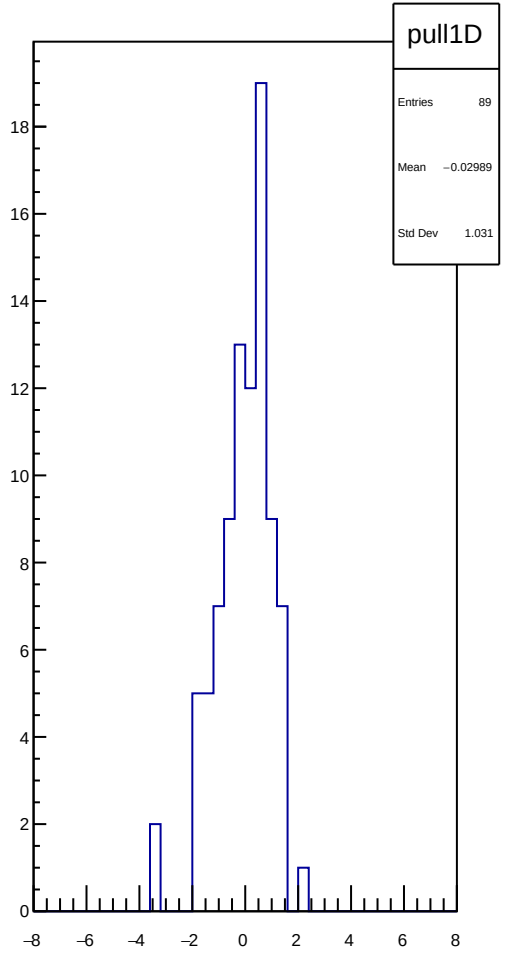

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 4773 / 88
p0 2946 ± 2.232
3600
3400
3200
3000
2800
2600

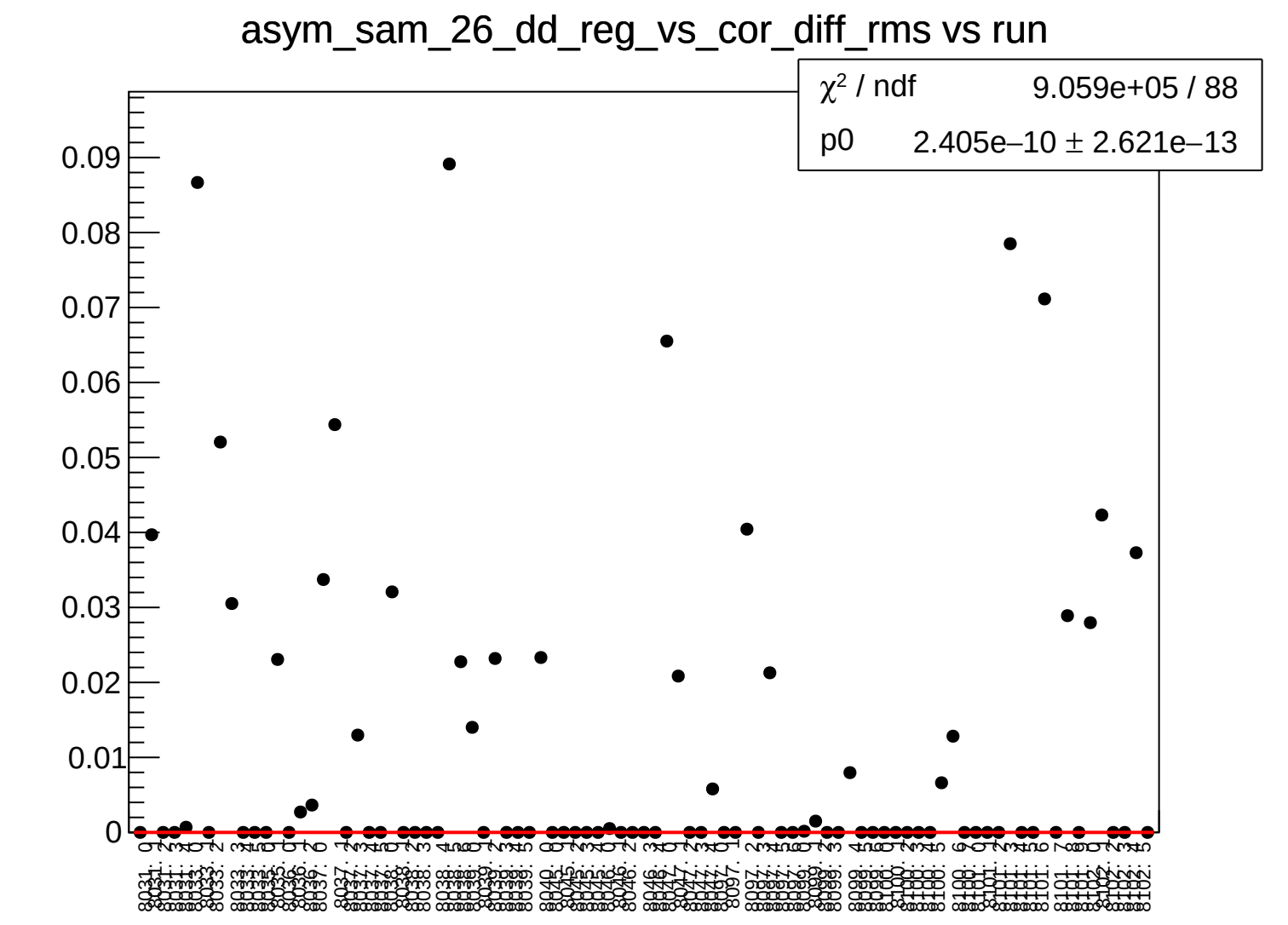

asym_sam_26_dd_mean vs run
×10^3
χ^2 / ndf 97.92 / 88
p0 2906 ± 3112
150
100
50
0
−50
−100
pull
Entries 89
Mean −174
Std Dev 0
3
2
1
0
−1
−2

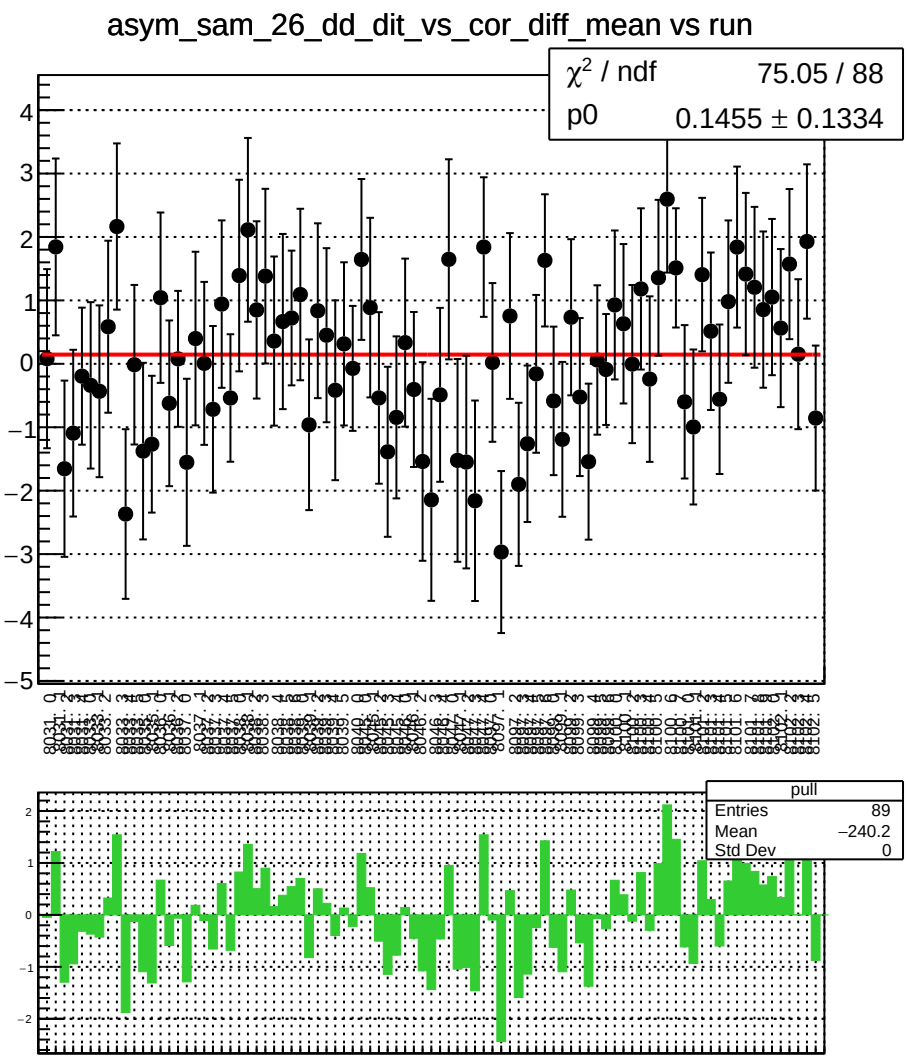

pull1D
Entries 89
Mean 0.006923
Std Dev 1.049
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

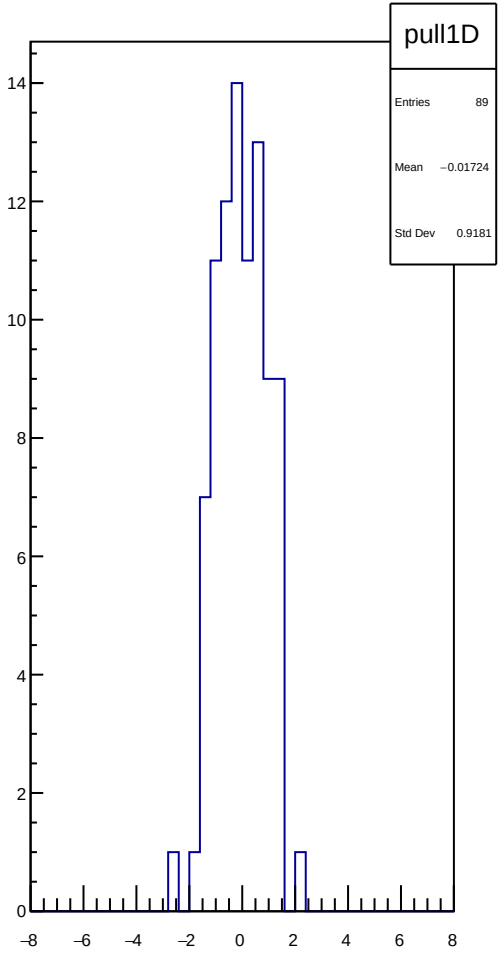

asym_sam_26_dd_rms vs run
χ² / ndf 5064 / 88
p0 2905 ± 2.201
3400
3200
3000
2800
2600

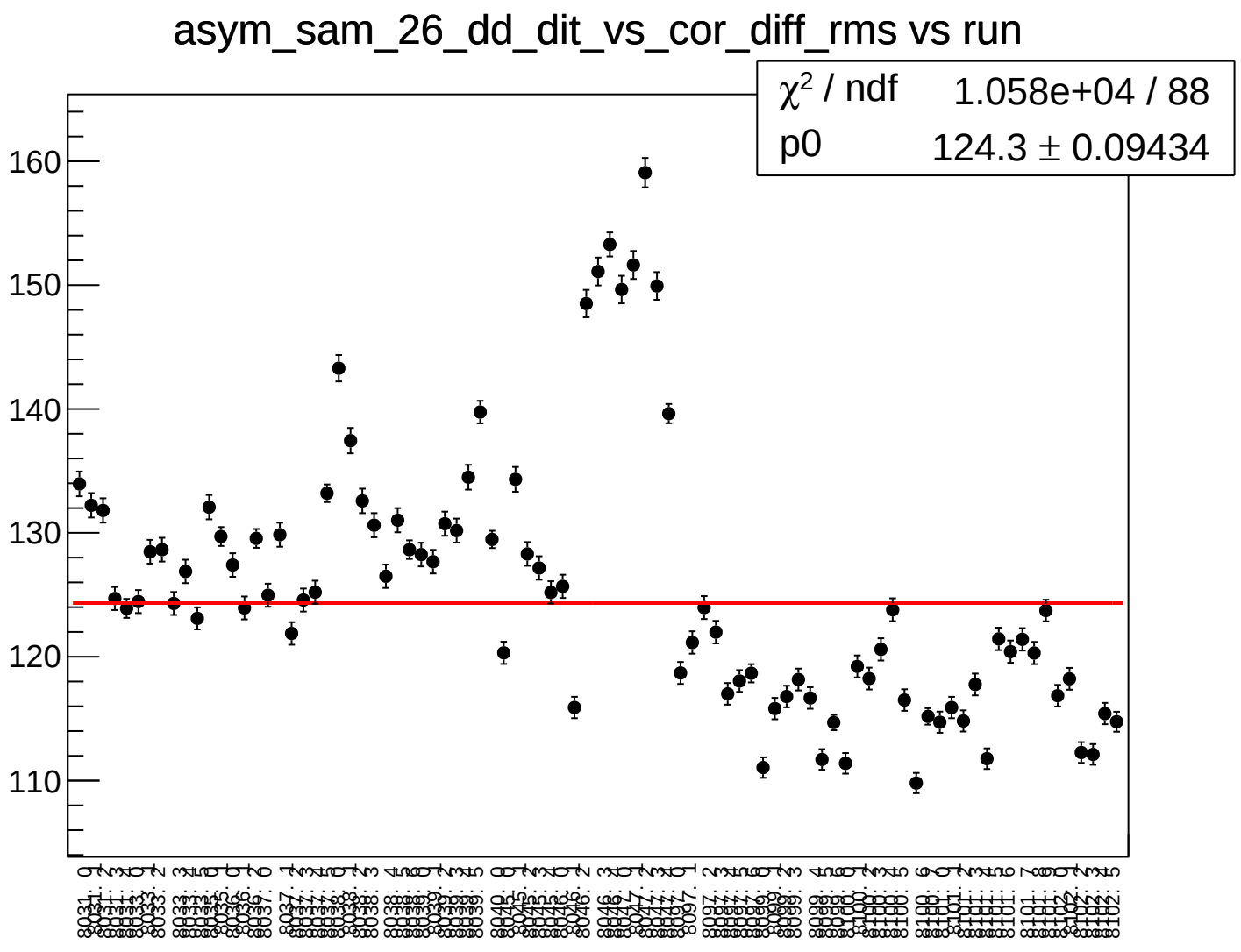

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 94.72 / 88
p0 2.937e−13 ± 3.707e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
−0.0025
pull
Entries 89
Mean 224.7
Std Dev 0
2
1
0
−1
−2
−3

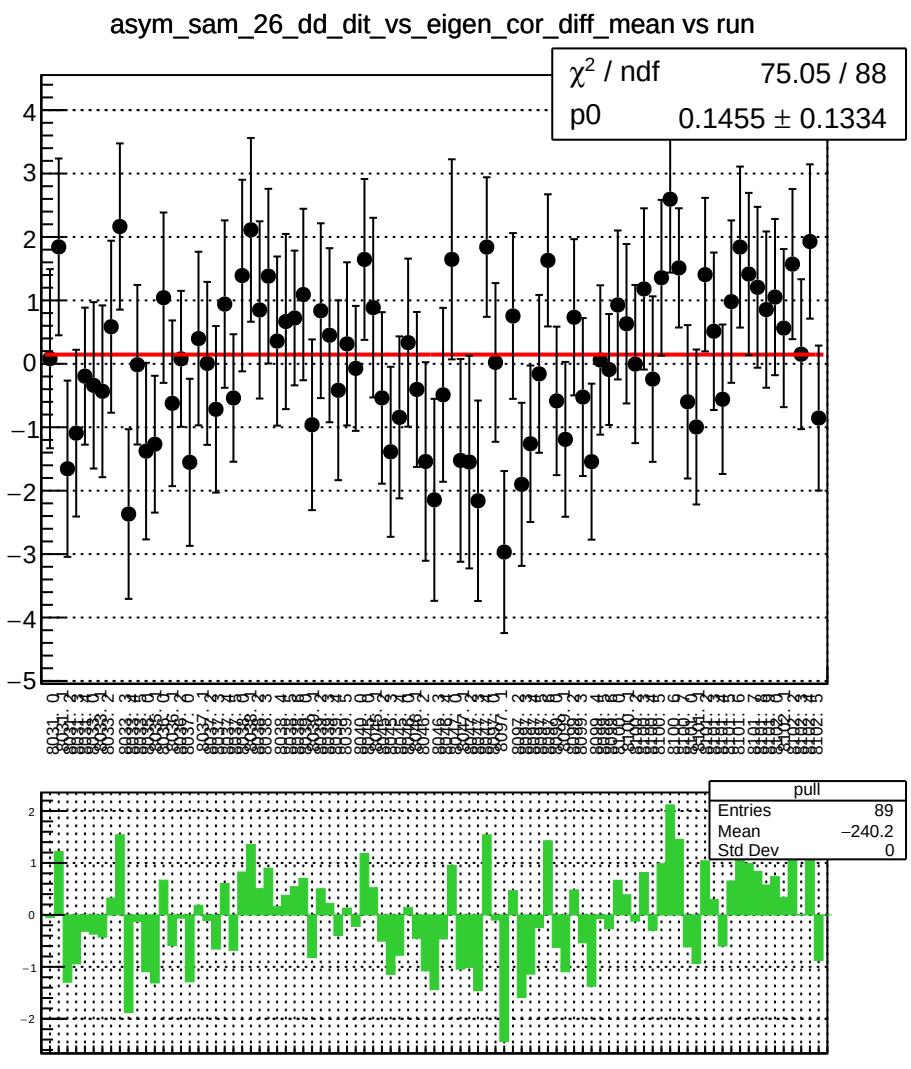

pull1D
Entries 89
Mean −0.02989
Std Dev 1.031
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

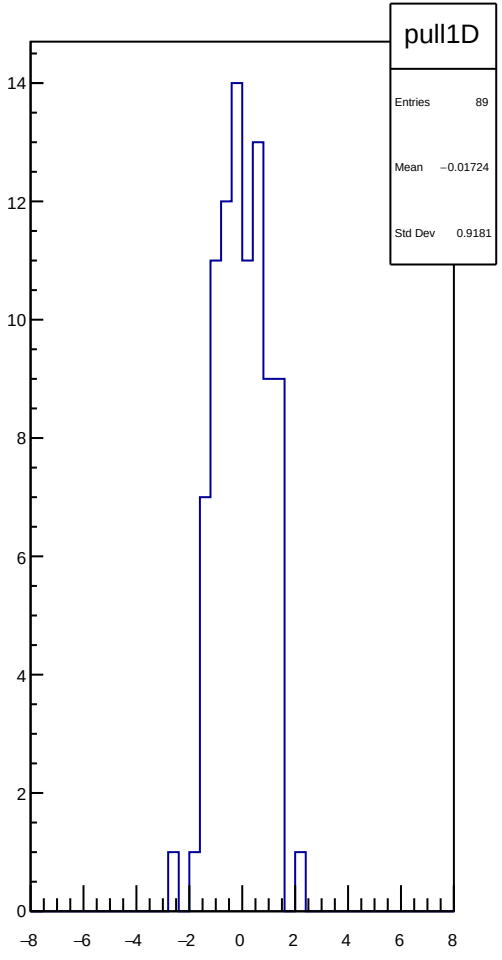

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.059e+05 / 88
p0 2.405e−10 ± 2.621e−13
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

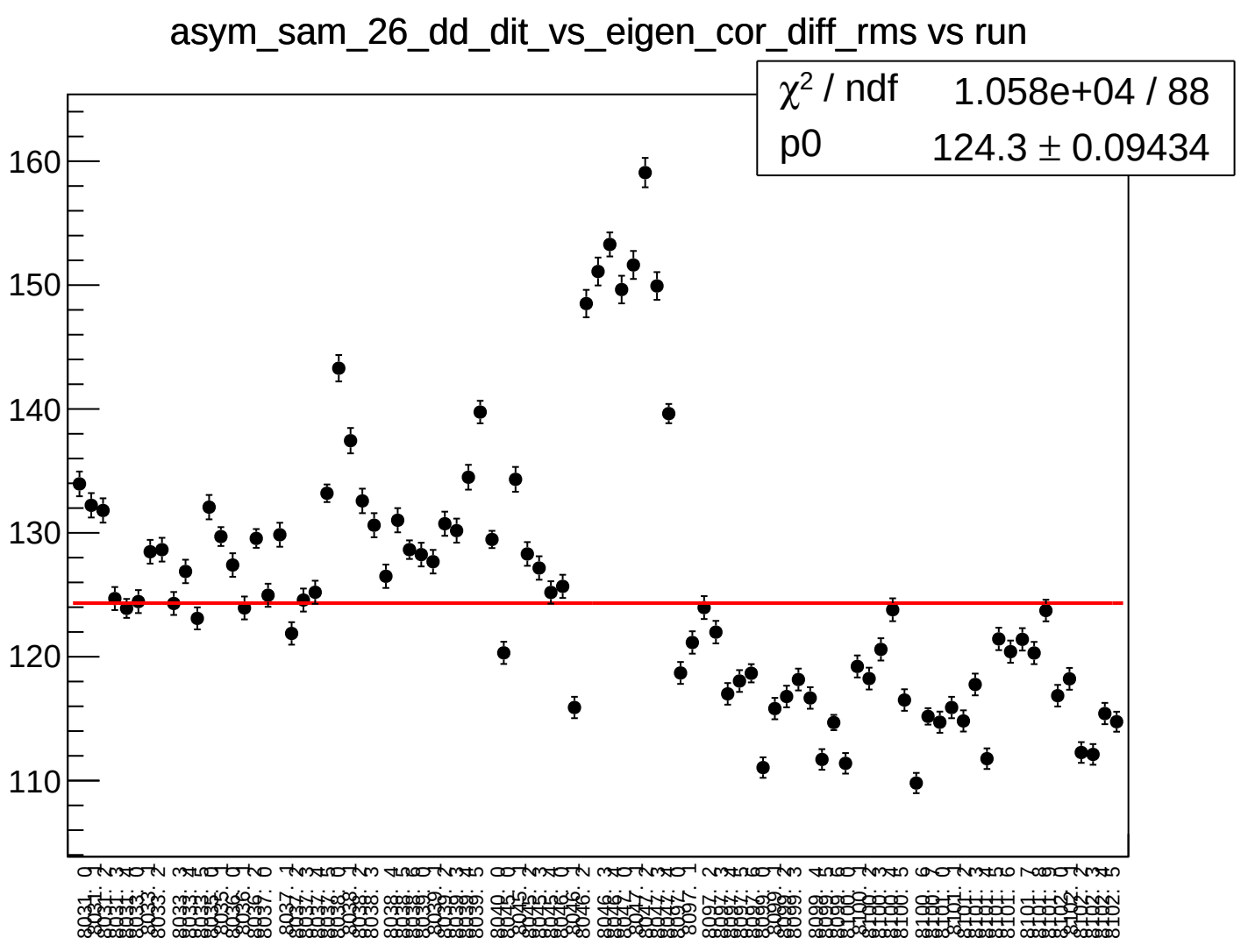

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 75.05 / 88
p0 0.1455 ± 0.1334
pull
Entries 89
Mean −240.2
Std Dev 0

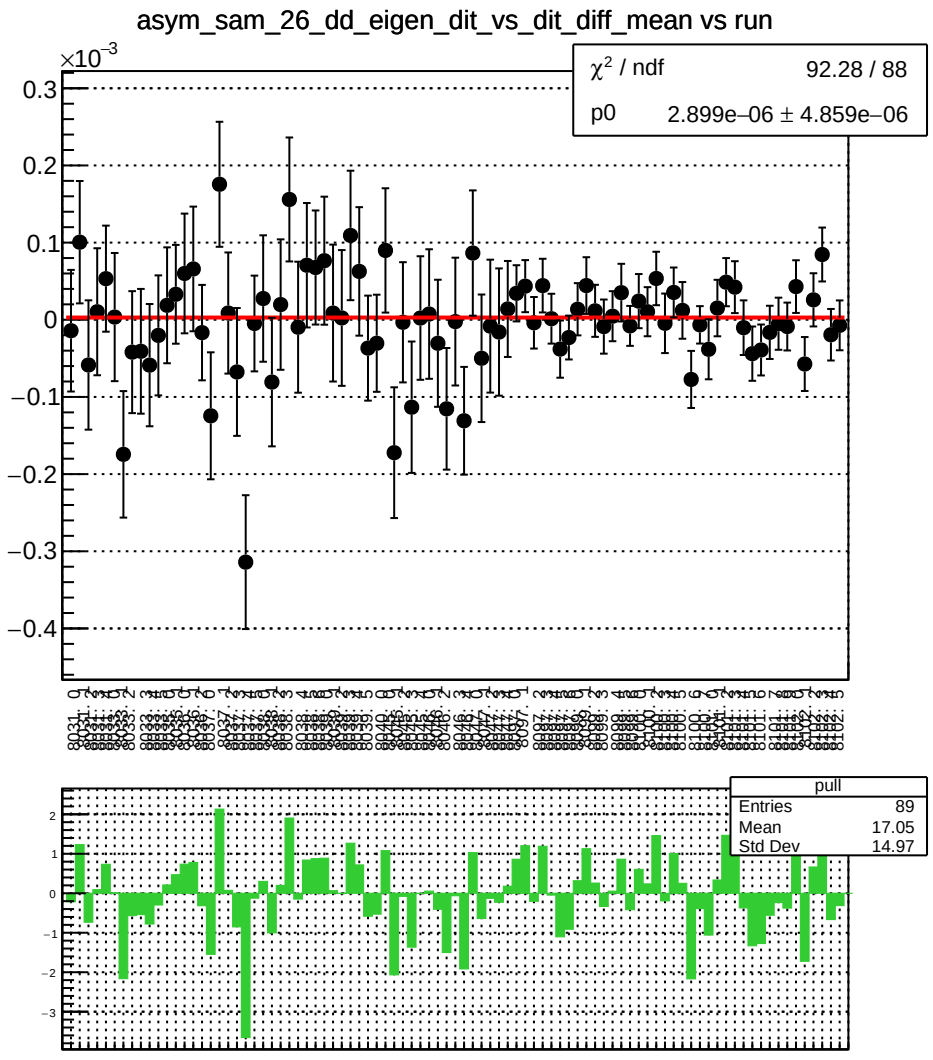

pull1D
Entries 89
Mean −0.01724
Std Dev 0.9181

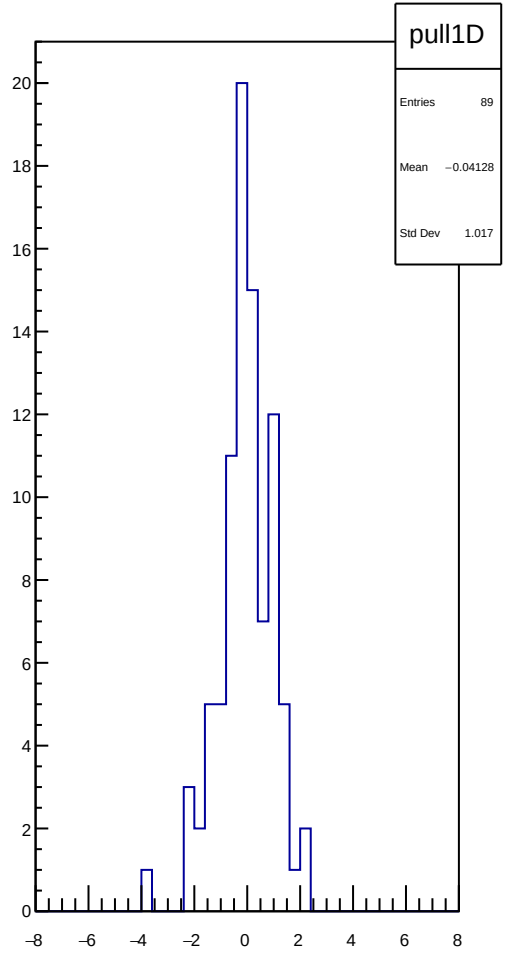

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.058e+04 / 88
p0 124.3 ± 0.09434
160
150
140
130
120
110

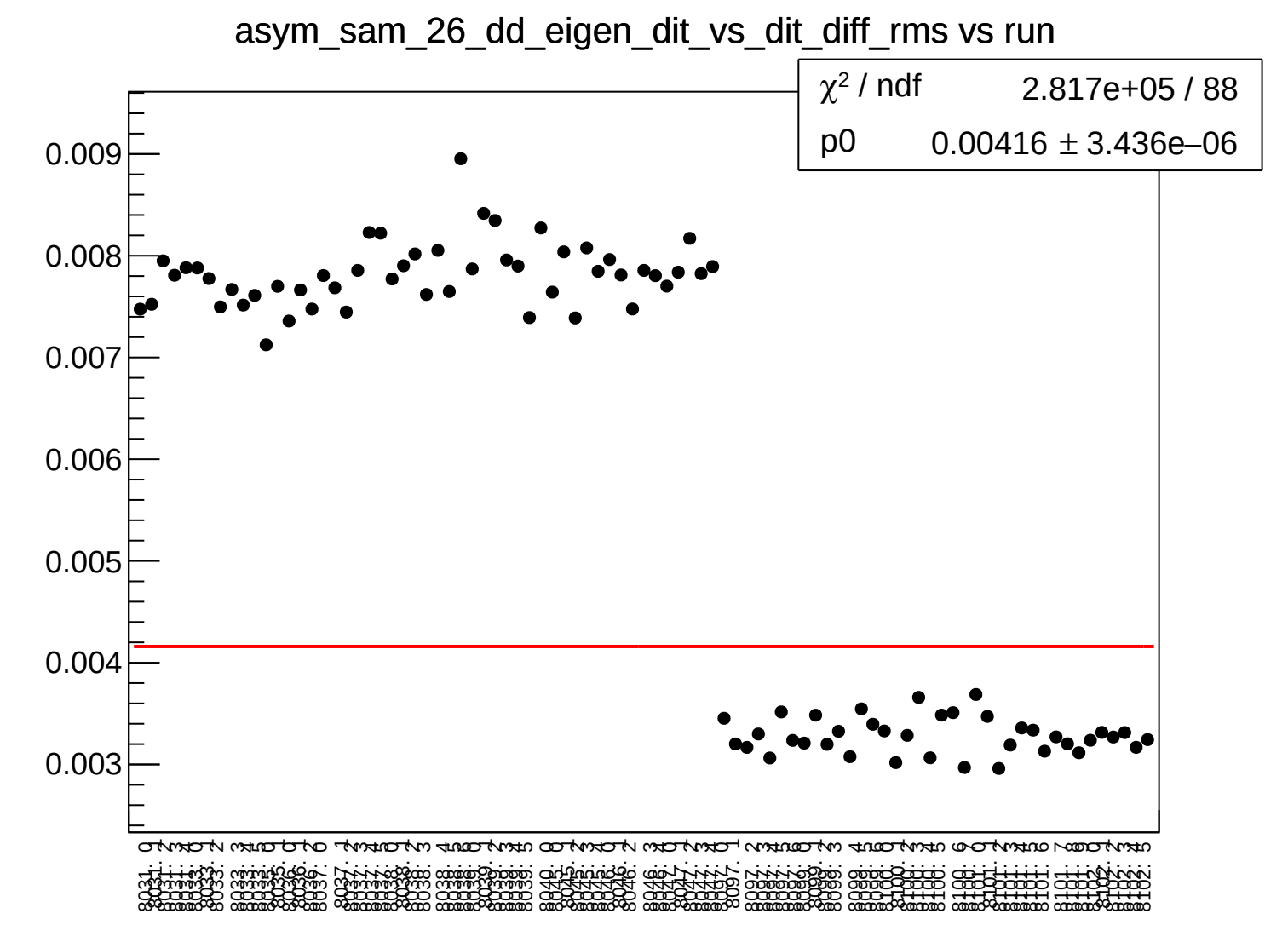

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.05 / 88
p0 0.1455 ± 0.1334
pull
Entries 89
Mean −240.2
Std Dev 0

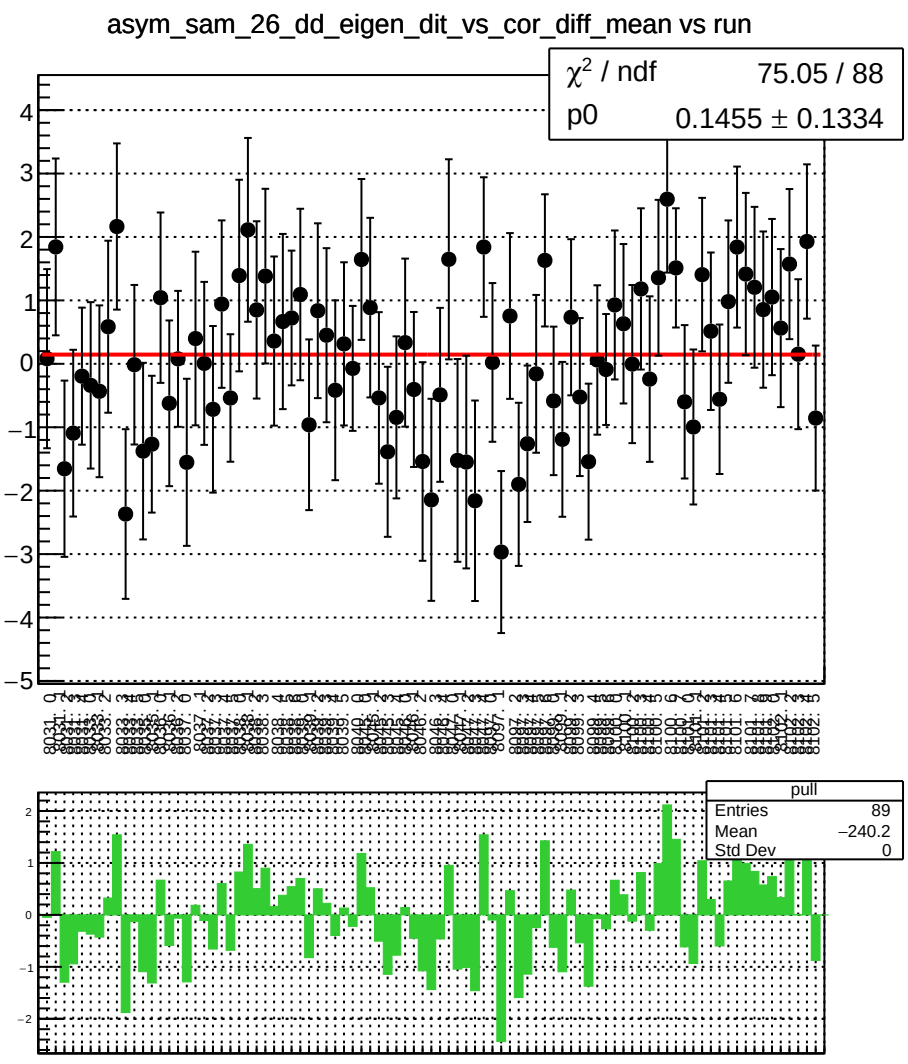

pull1D
Entries 89
Mean −0.01724
Std Dev 0.9181

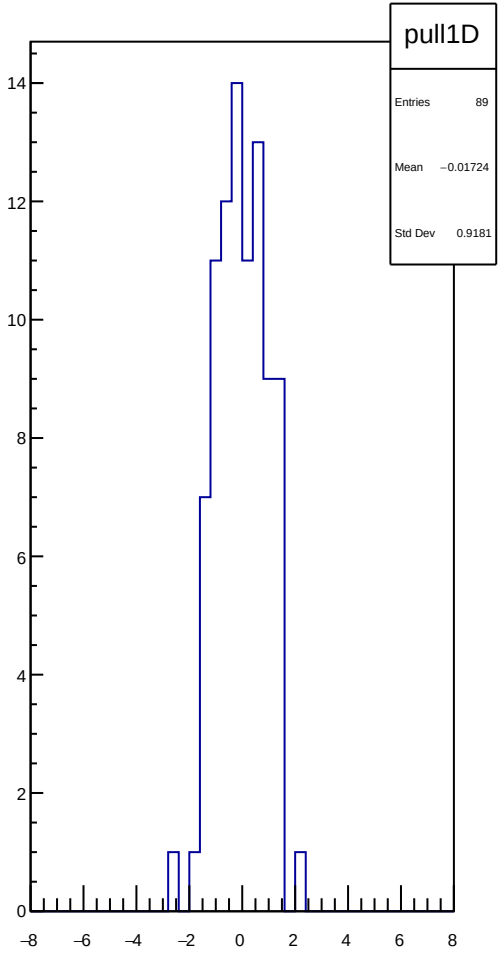

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.058e+04 / 88
p0 124.3 ± 0.09434
160
150
140
130
120
110

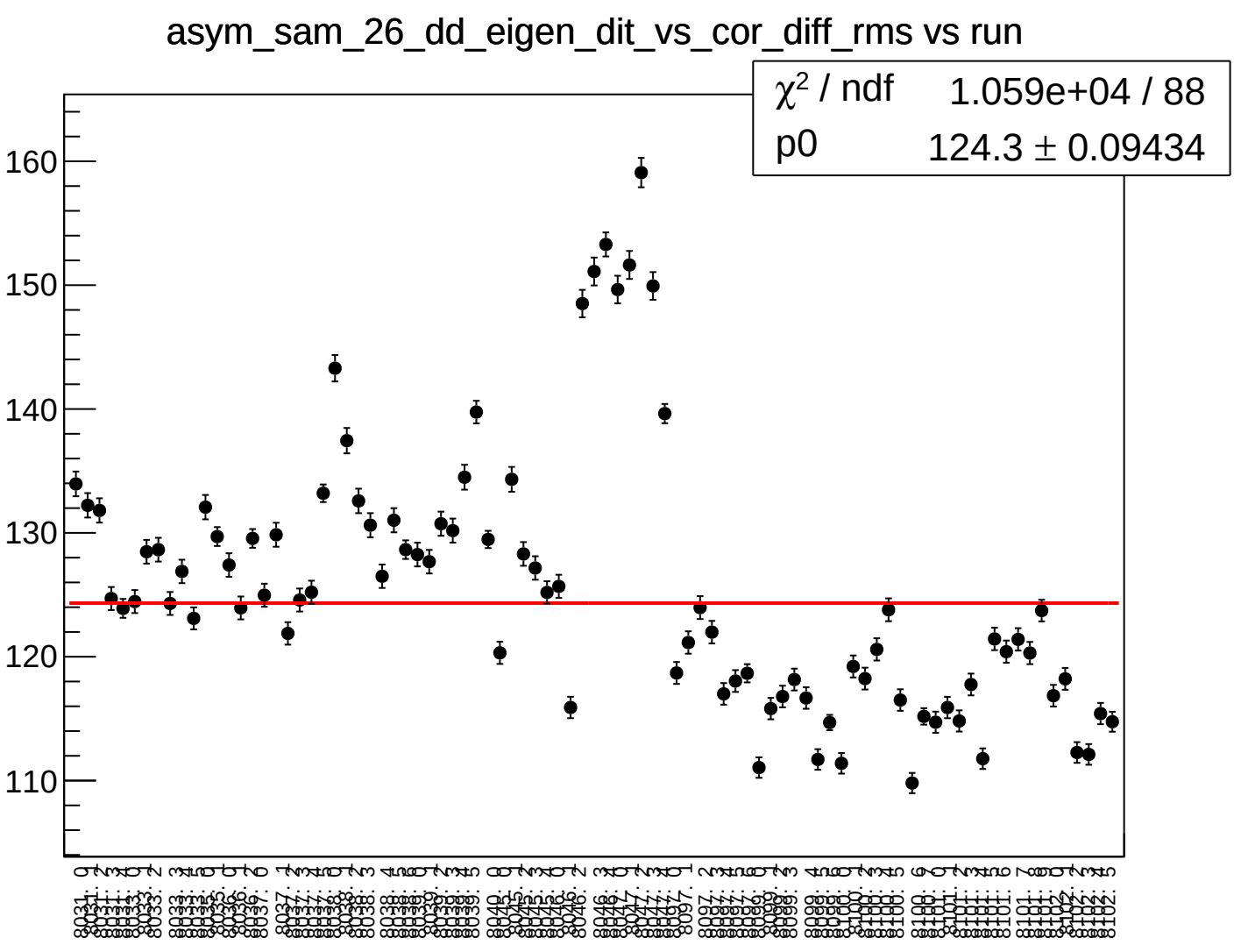

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.28 / 88
p0 2.899e−06 ± 4.859e−06
pull
Entries 89
Mean 17.05
Std Dev 14.97

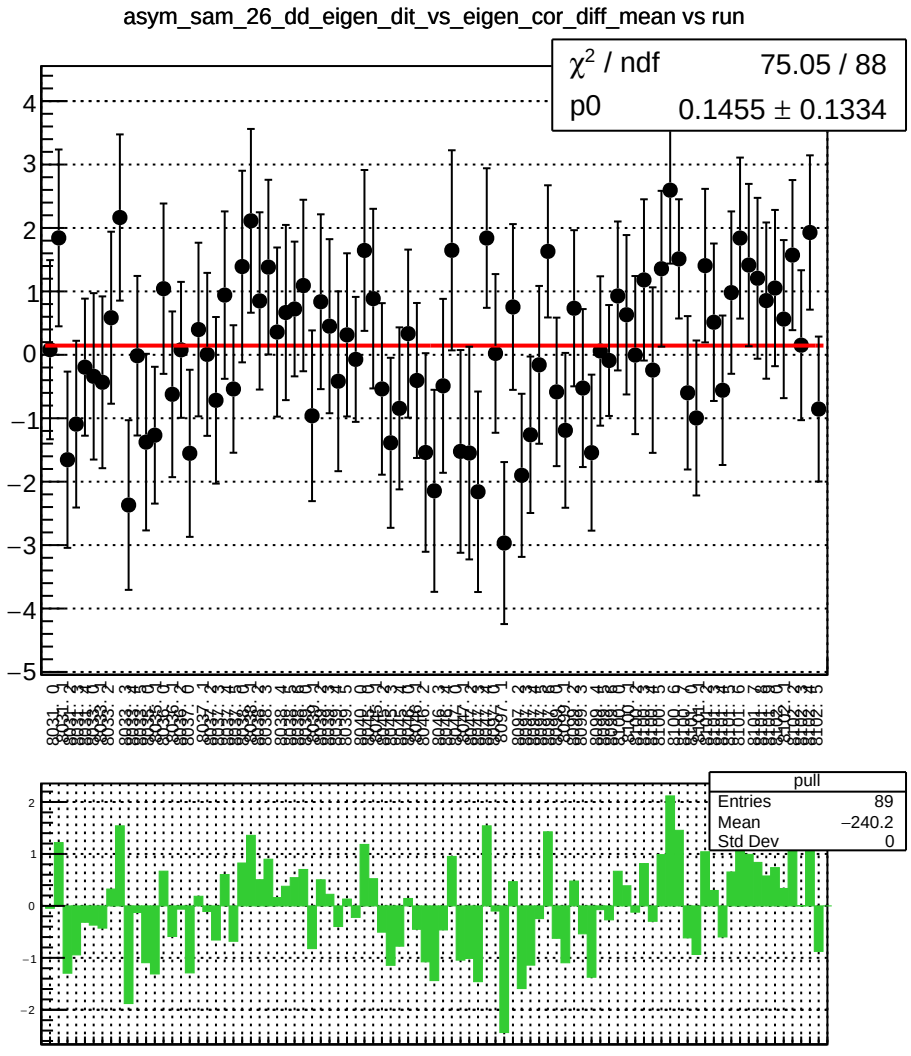

pull1D
Entries 89
Mean −0.04128
Std Dev 1.017

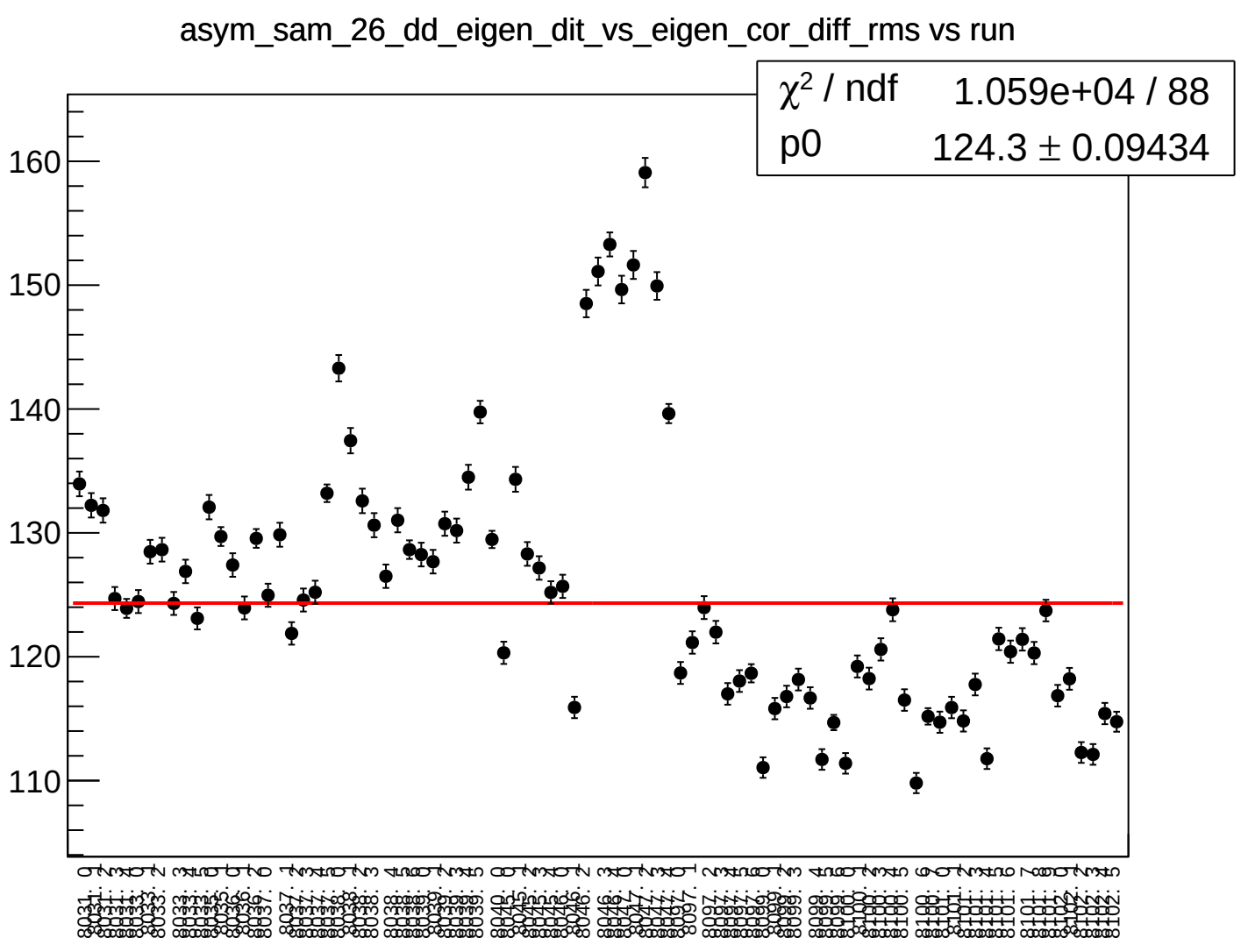

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.817e+05 / 88
p0 0.00416 ± 3.436e–06
0.009
0.008
0.007
0.006
0.005
0.004
0.003

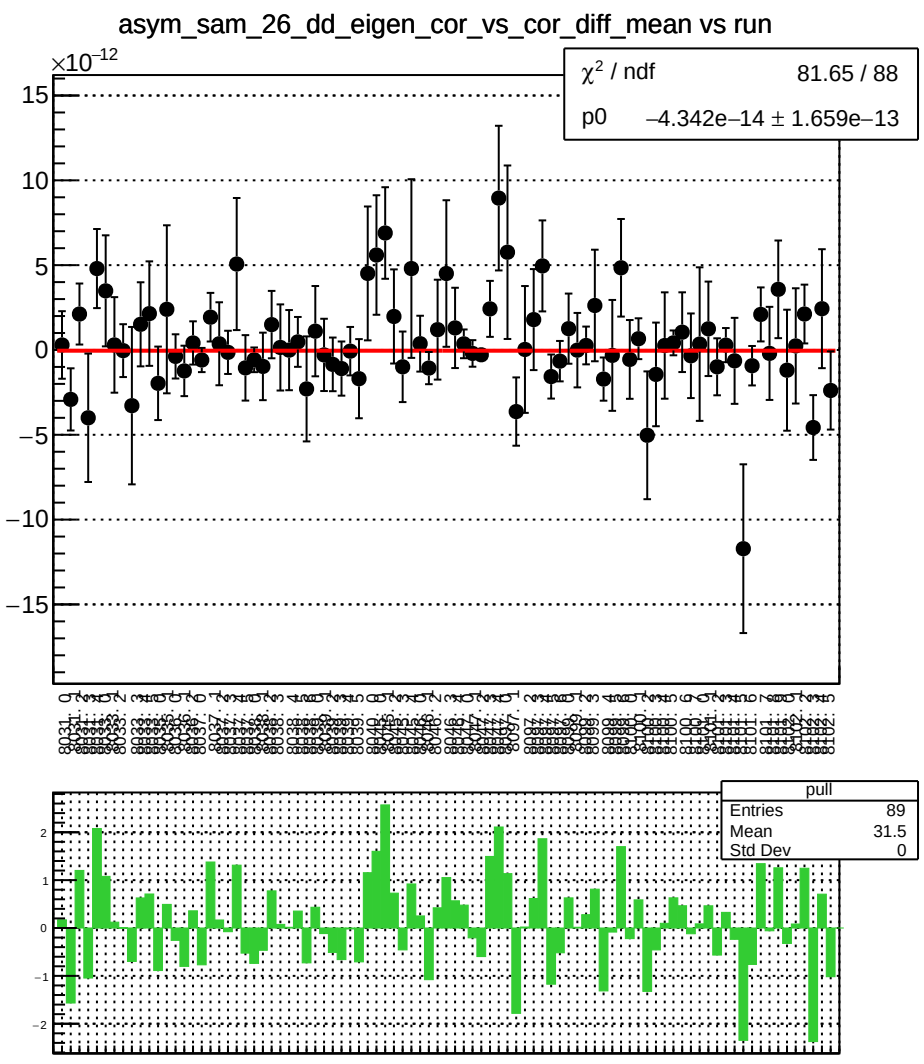

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.05 / 88
p0 0.1455 ± 0.1334
pull
Entries 89
Mean −240.2
Std Dev 0

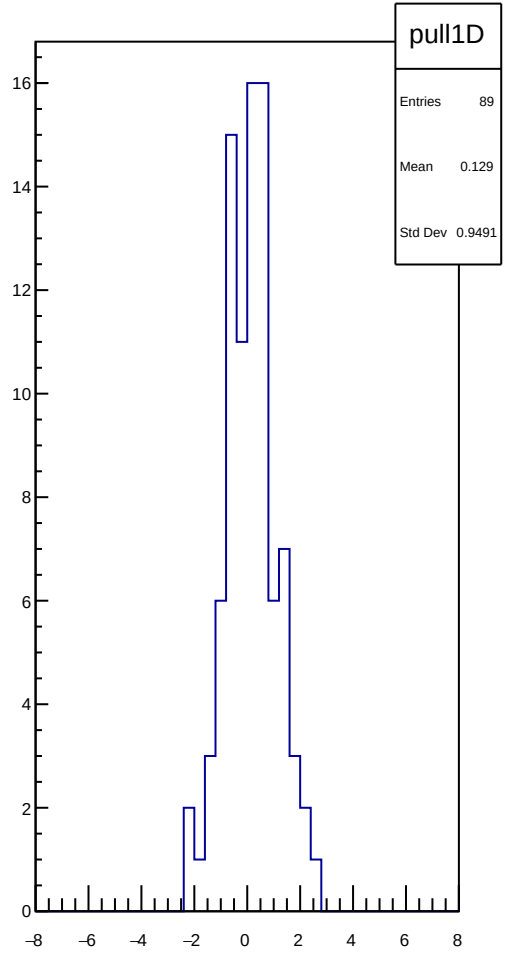

pull1D
Entries 89
Mean −0.01724
Std Dev 0.9181

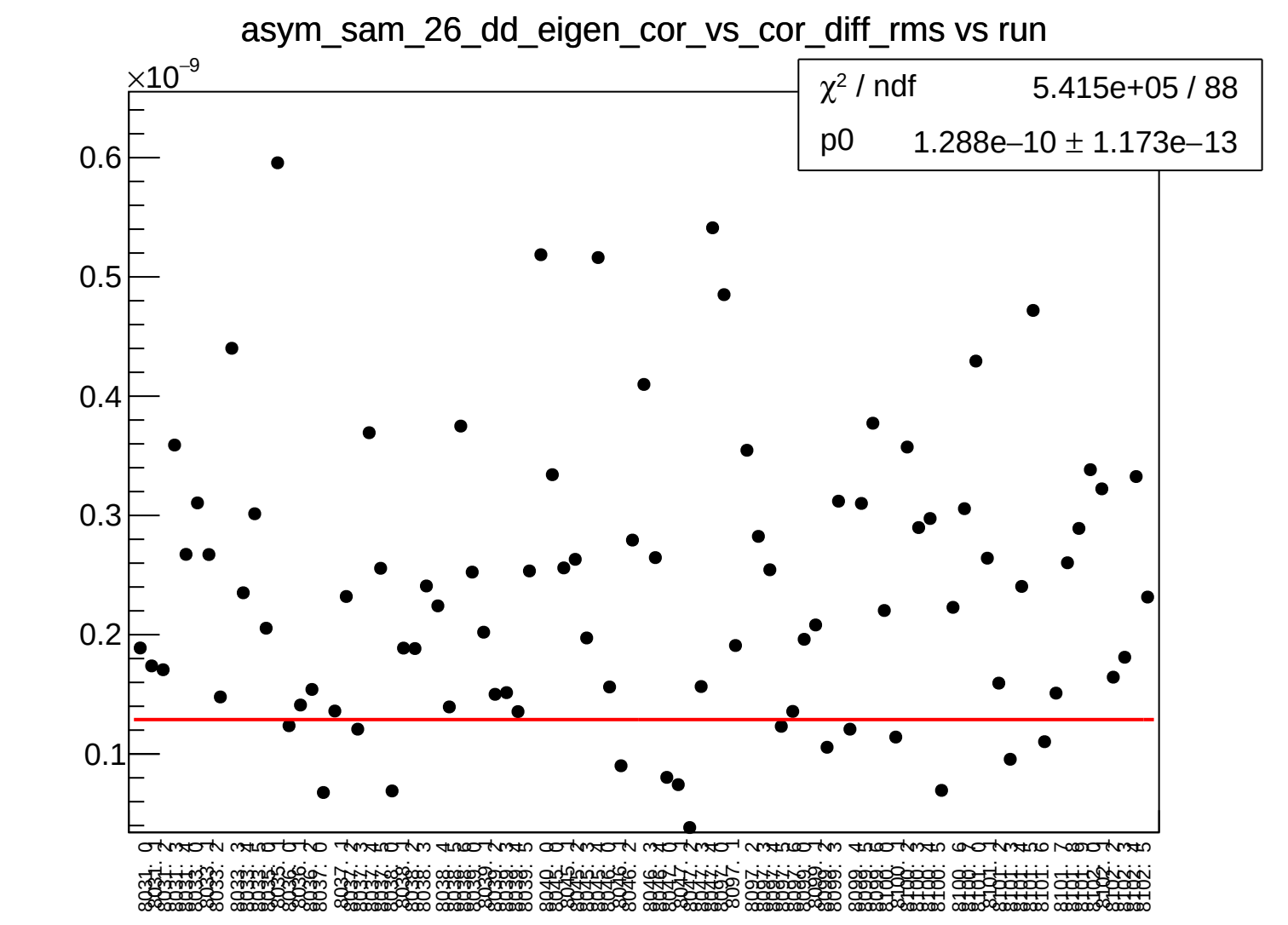

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.059e+04 / 88
p0 124.3 ± 0.09434
160
150
140
130
120
110

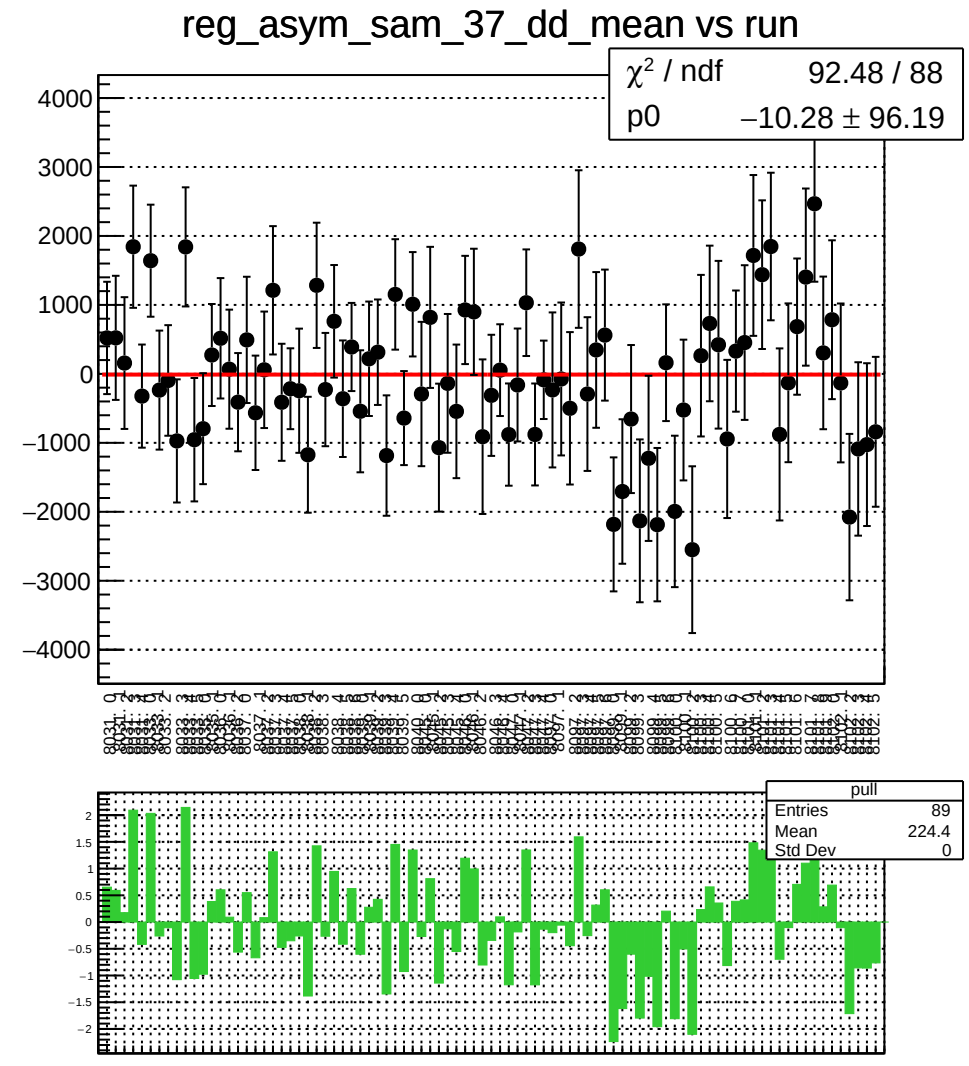

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.05 / 88
p0 0.1455 ± 0.1334
pull
Entries 89
Mean −240.2
Std Dev 0
pull1D
Entries 89
Mean −0.01724
Std Dev 0.9181

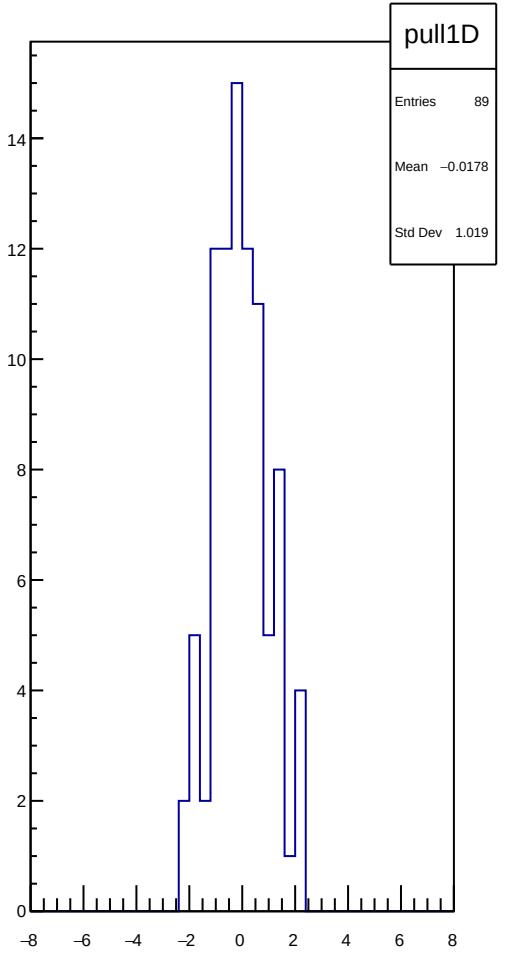

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.059e+04 / 88
p0 124.3 ± 0.09434
160
150
140
130
120
110

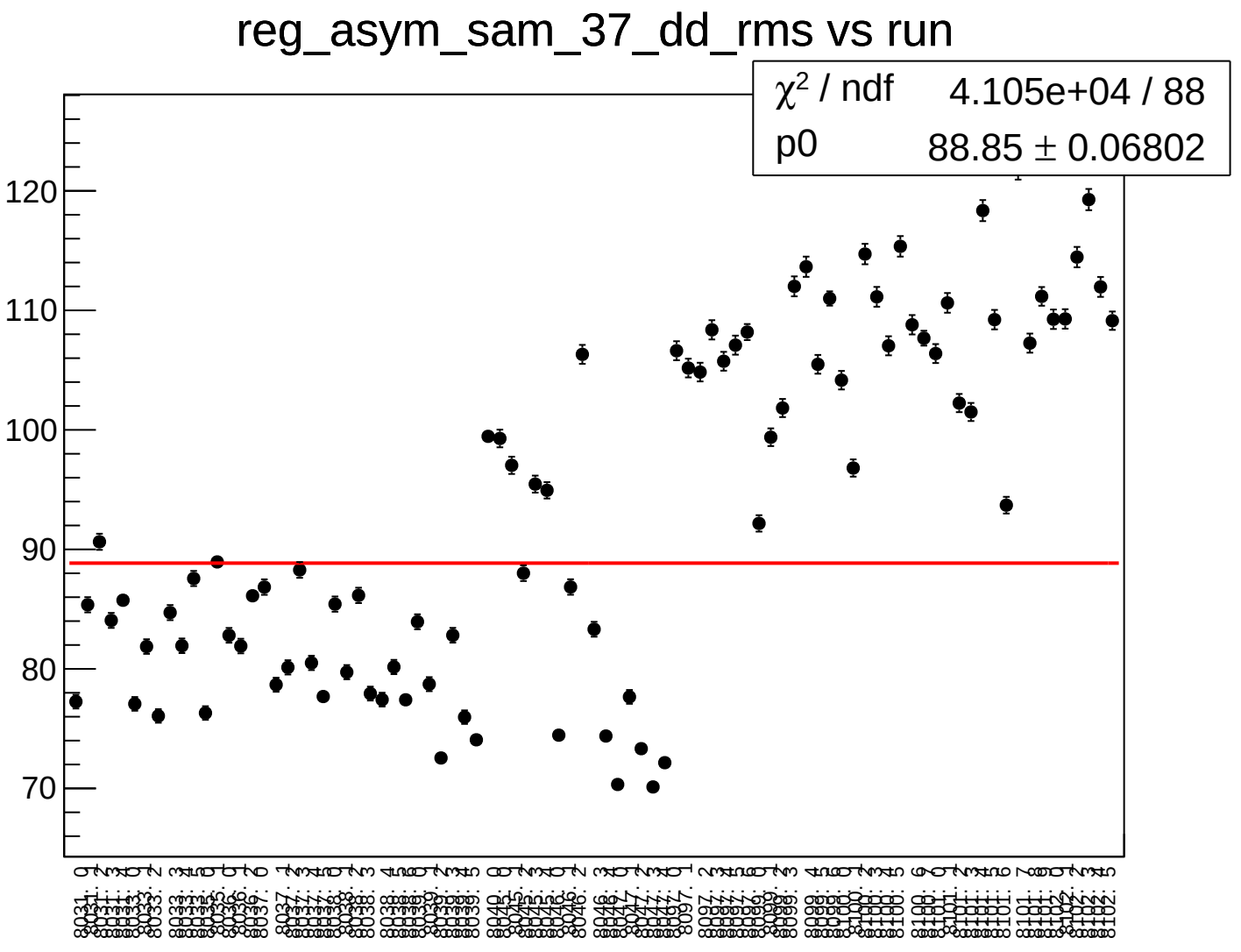

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.65 / 88
p0 −4.342e−14 ± 1.659e−13
pull
Entries 89
Mean 31.5
Std Dev 0

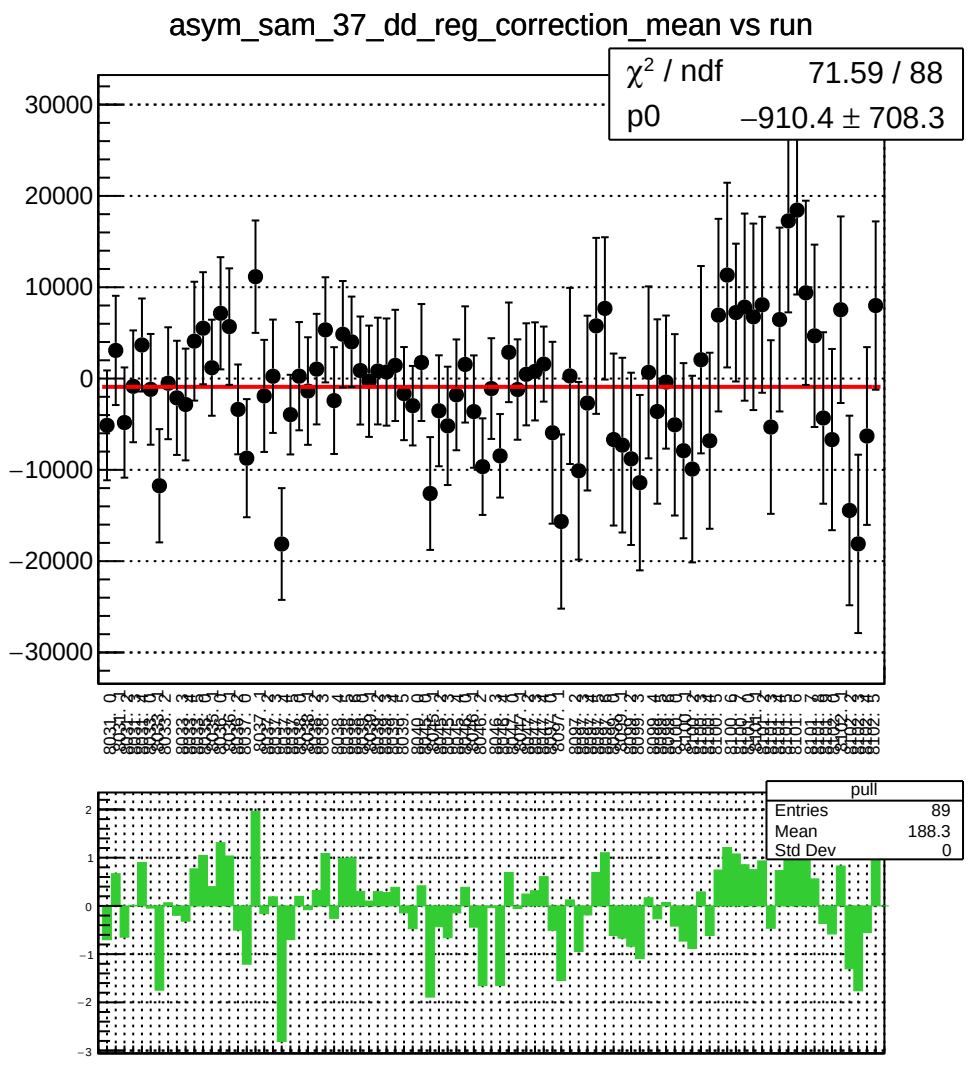

pull1D
Entries 89
Mean 0.129
Std Dev 0.9491

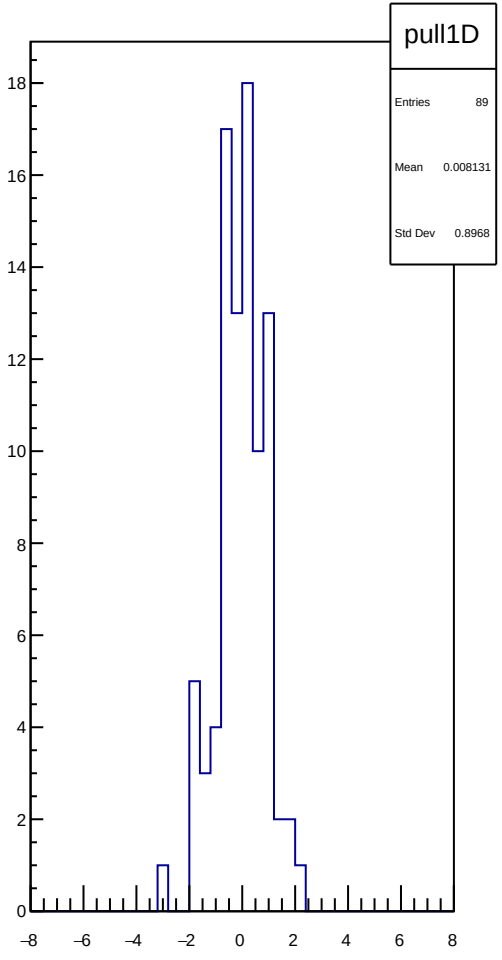

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.415e+05 / 88
p0 1.288e−10 ± 1.173e−13
0.6
0.5
0.4
0.3
0.2
0.1

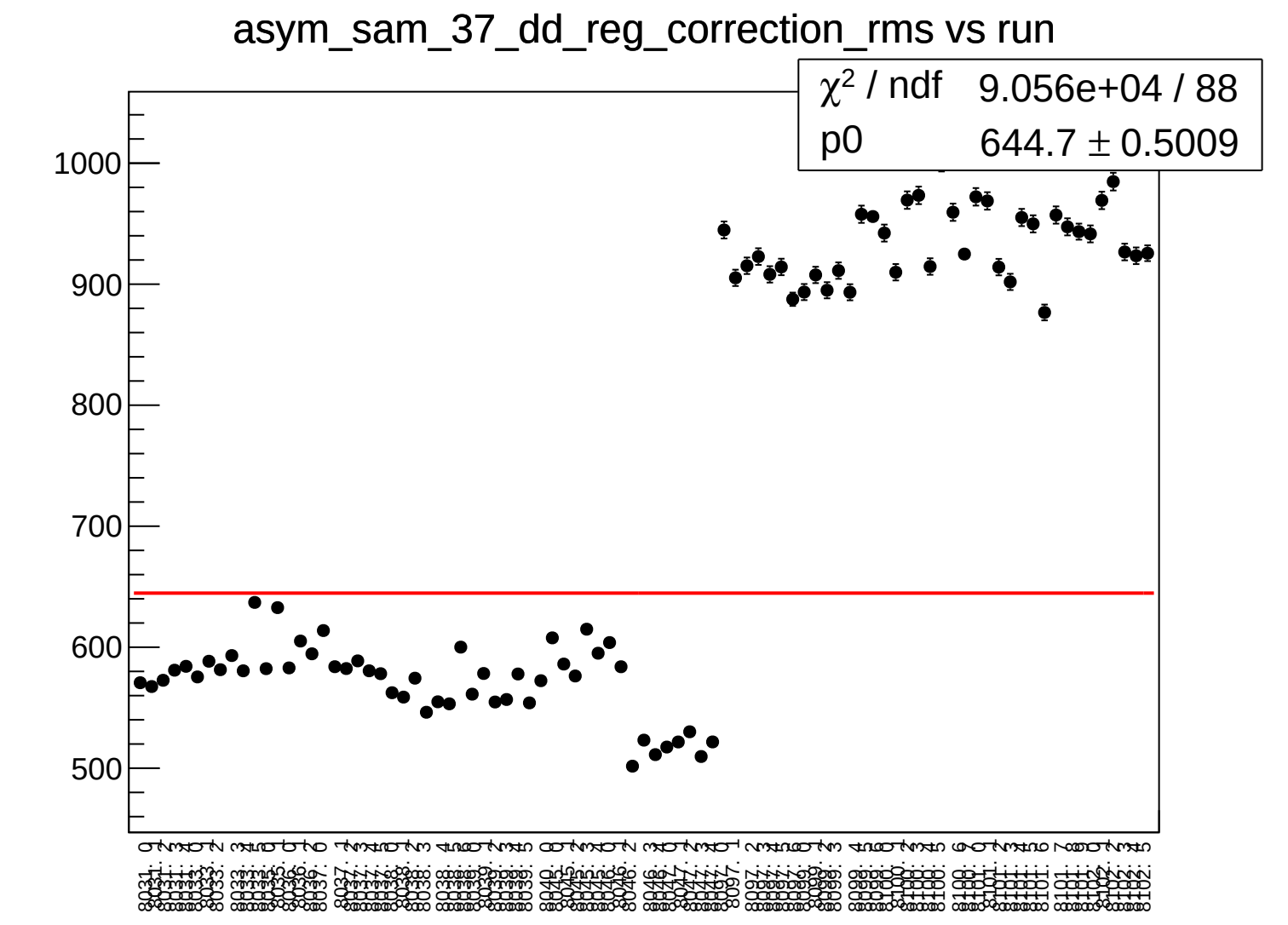

reg_asym_sam_37_dd_mean vs run
χ² / ndf 92.48 / 88
p0 −10.28 ± 96.19
pull
Entries 89
Mean 224.4
Std Dev 0

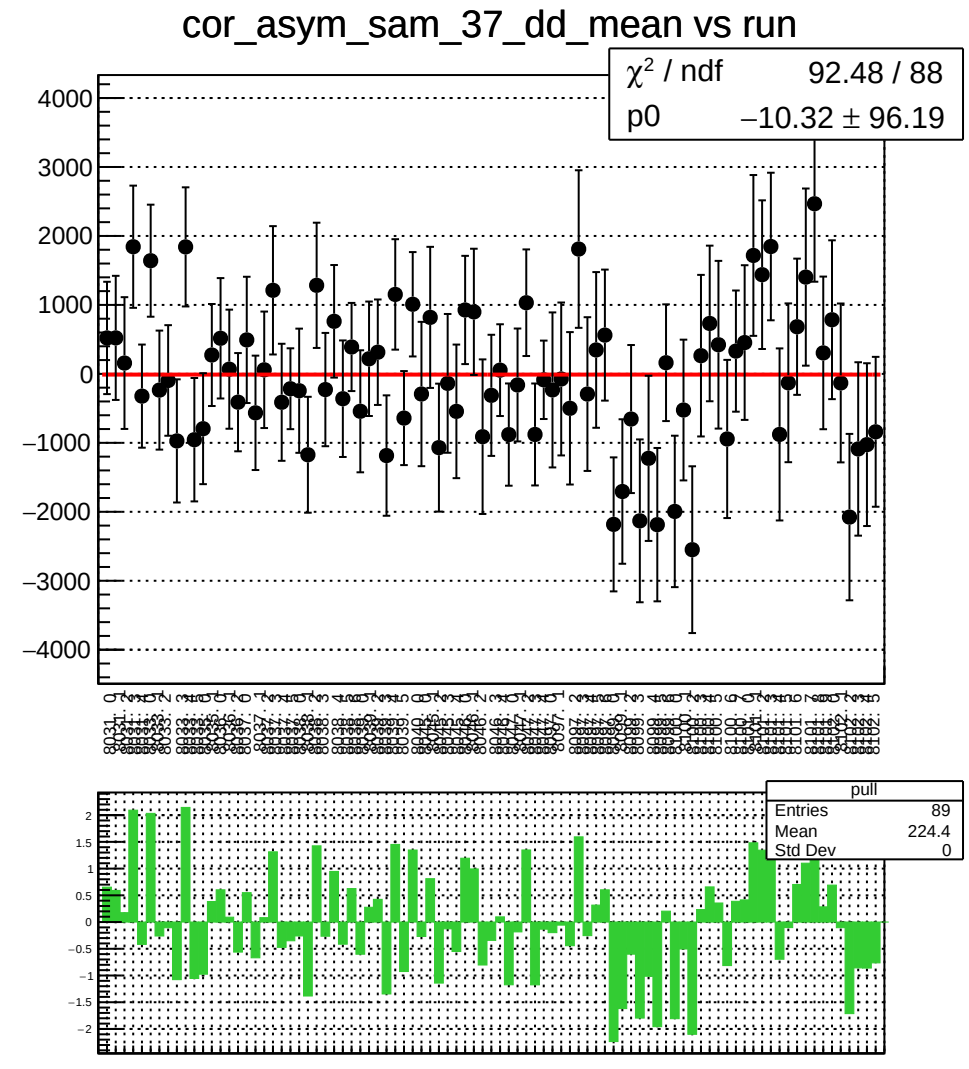

pull1D
Entries 89
Mean −0.0178
Std Dev 1.019

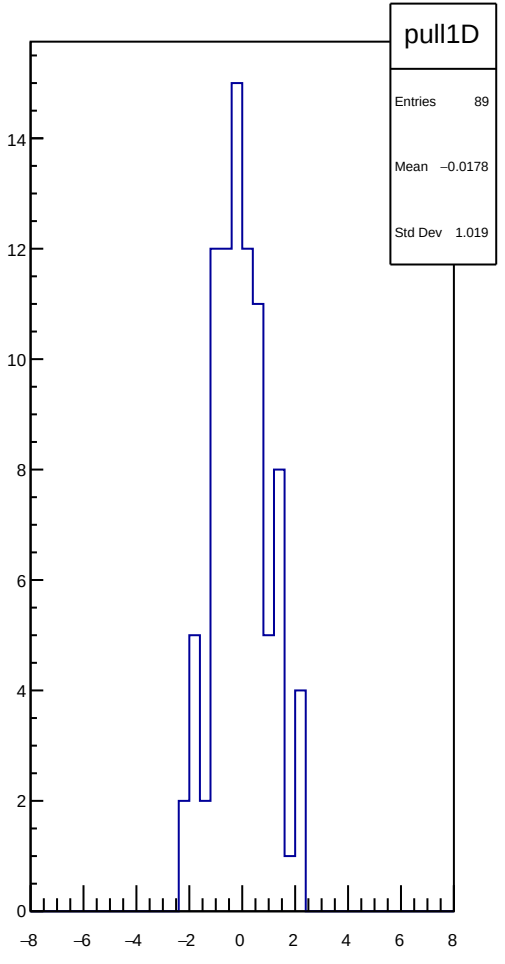

reg_asym_sam_37_dd_rms vs run
$\chi^2$ / ndf 4.105e+04 / 88
p0 88.85 ± 0.06802
120
110
100
90
80
70

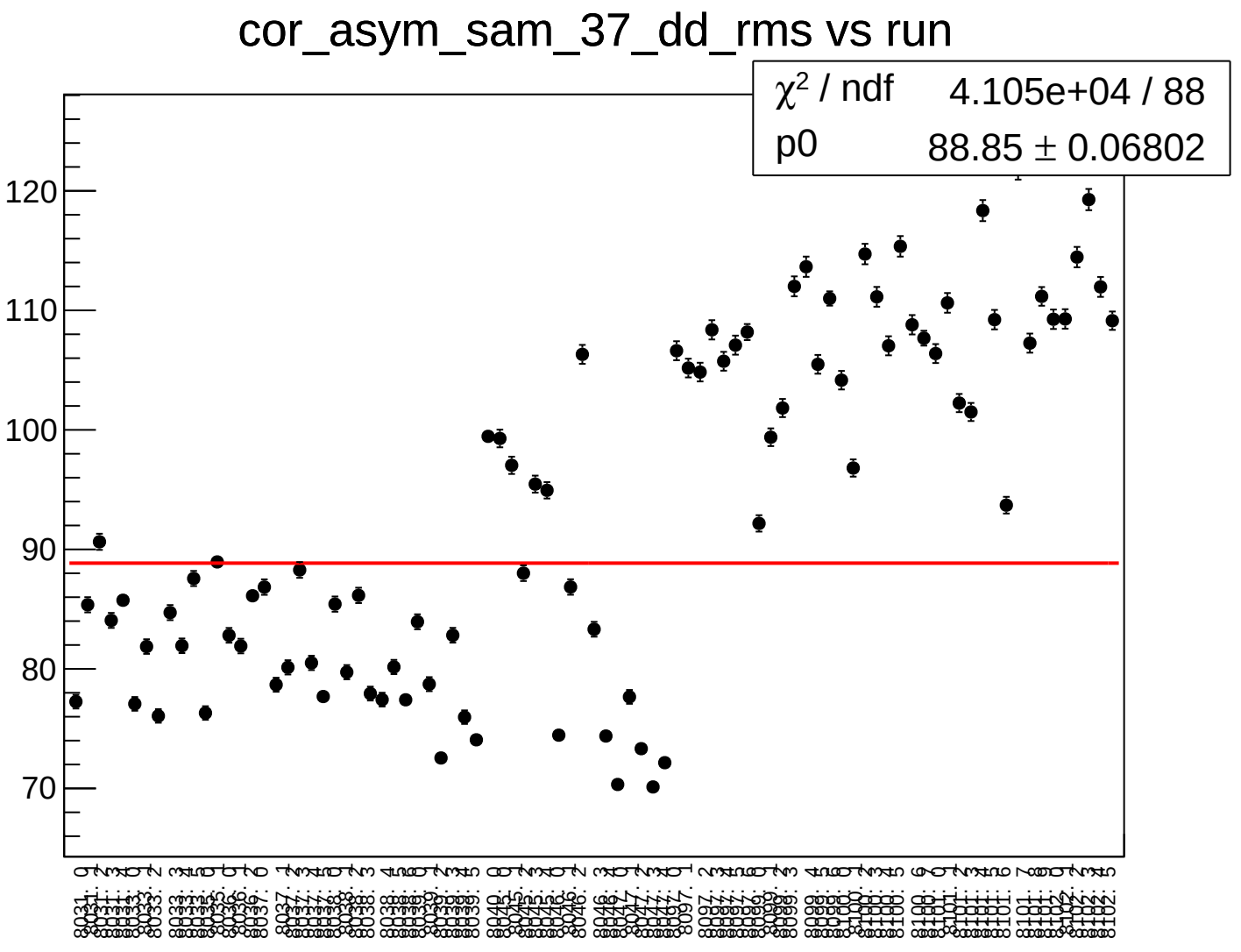

asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 71.59 / 88
p0 −910.4 ± 708.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 188.3
Std Dev 0
2
1
0
−1
−2
−3

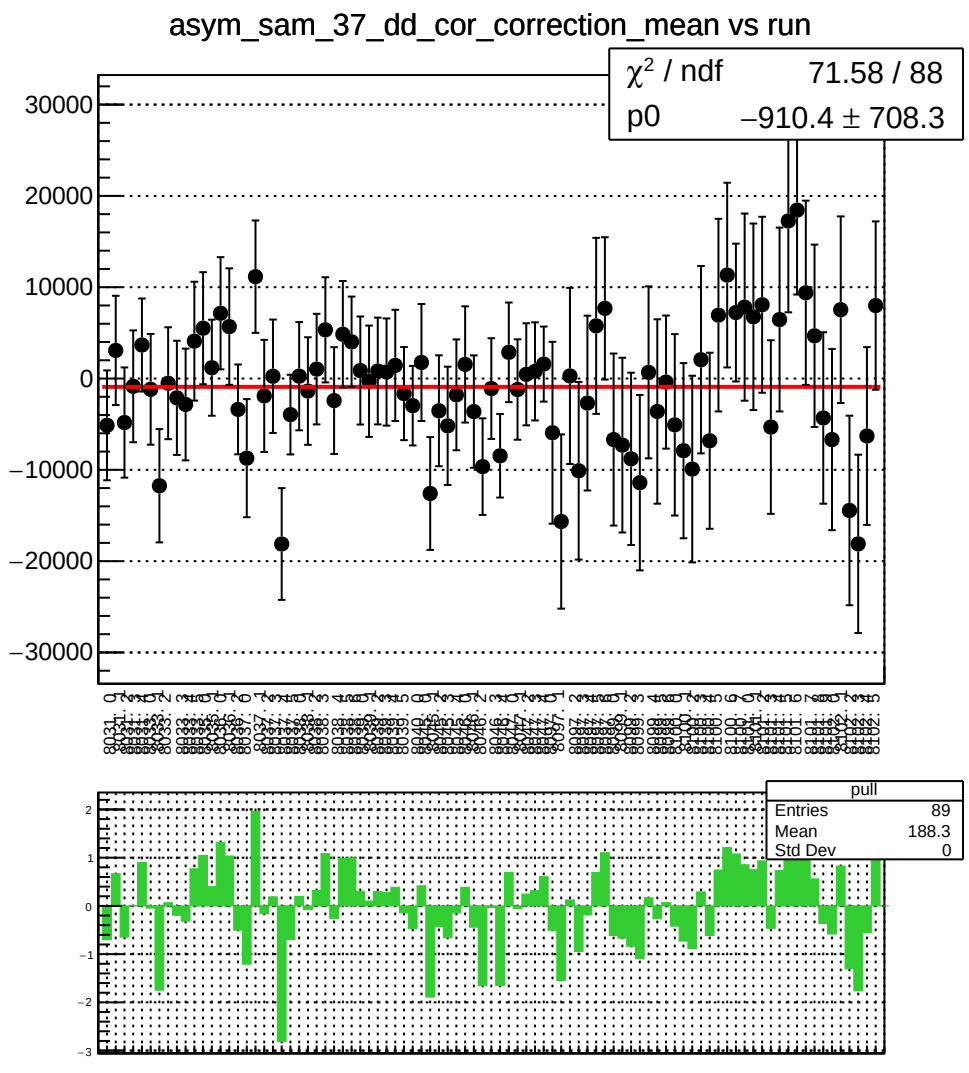

pull1D
Entries 89
Mean 0.008131
Std Dev 0.8968
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

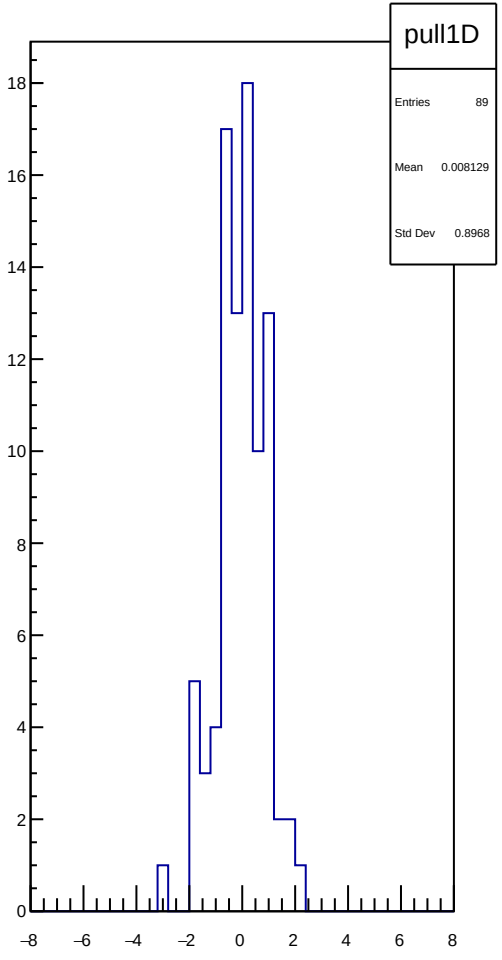

asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 9.056e+04 / 88
p0 644.7 ± 0.5009
1000
900
800
700
600
500

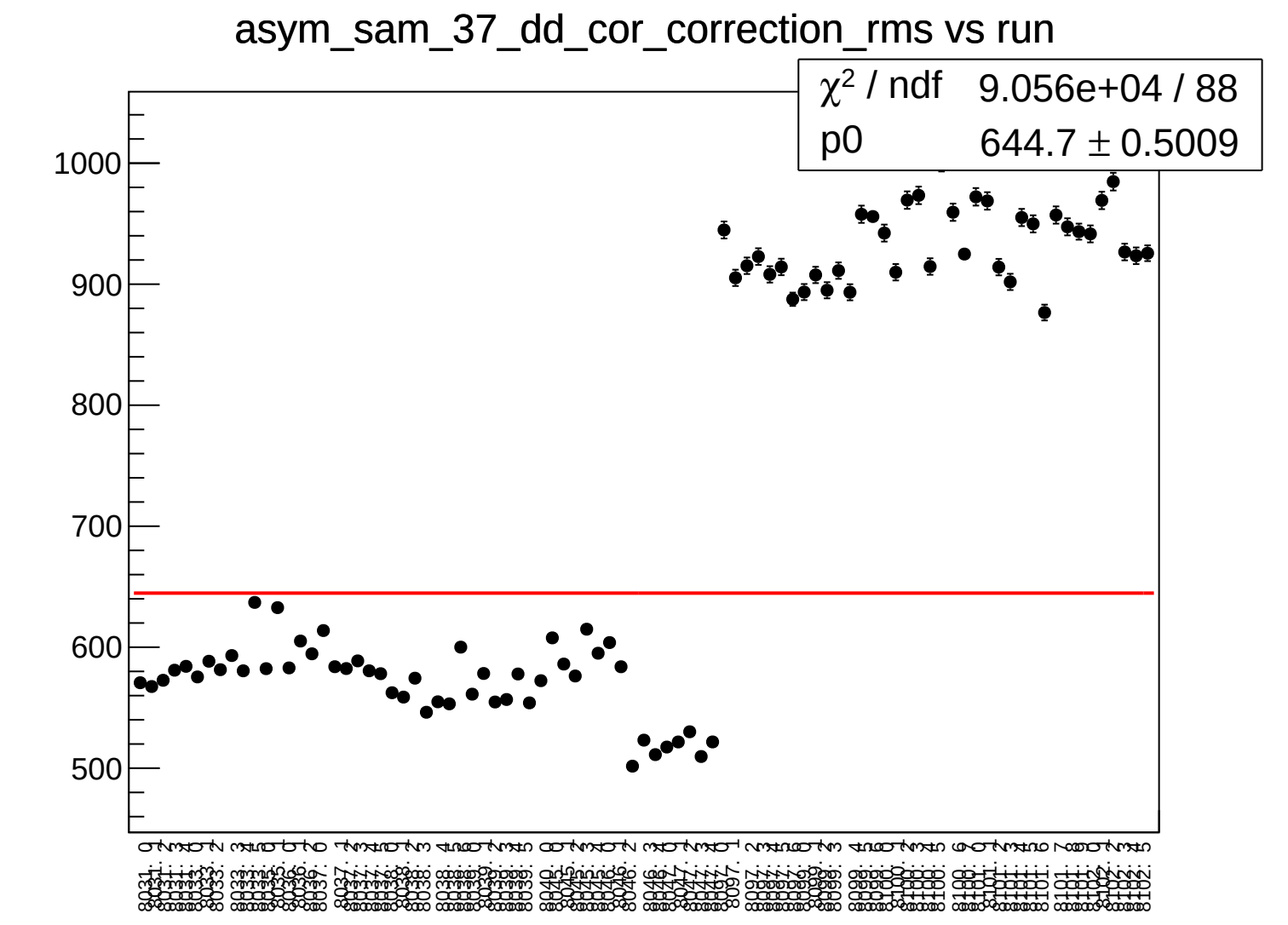

cor_asym_sam_37_dd_mean vs run
χ² / ndf 92.48 / 88
p0 −10.32 ± 96.19
pull
Entries 89
Mean 224.4
Std Dev 0

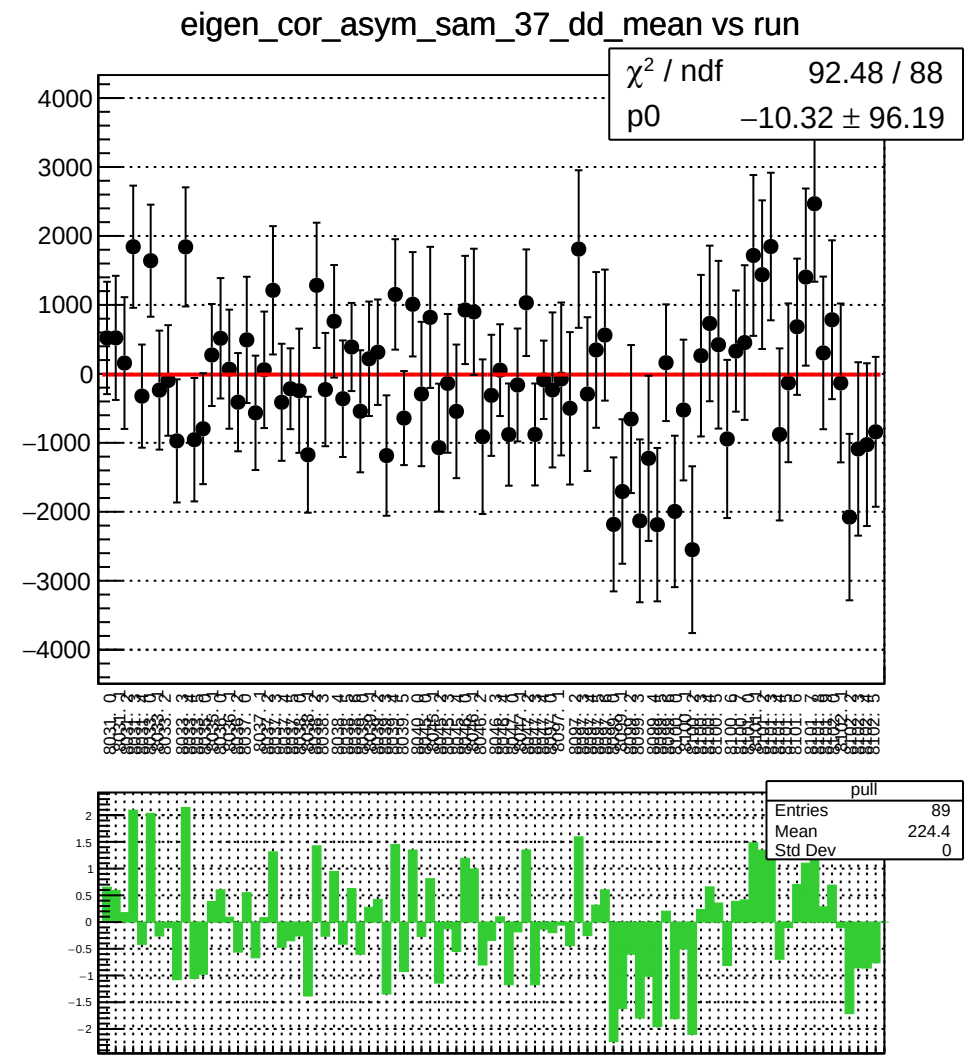

pull1D
Entries 89
Mean −0.0178
Std Dev 1.019

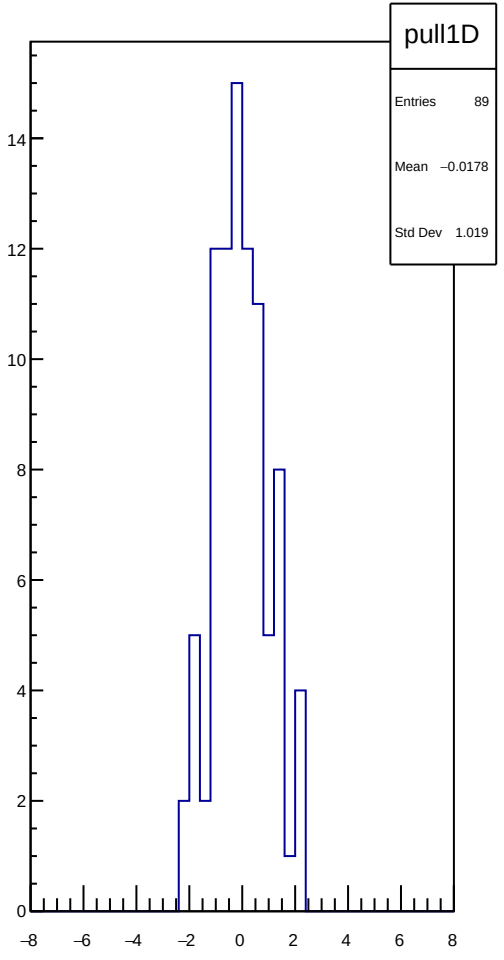

cor_asym_sam_37_dd_rms vs run
$\chi^2$ / ndf 4.105e+04 / 88
p0 88.85 ± 0.06802
120
110
100
90
80
70

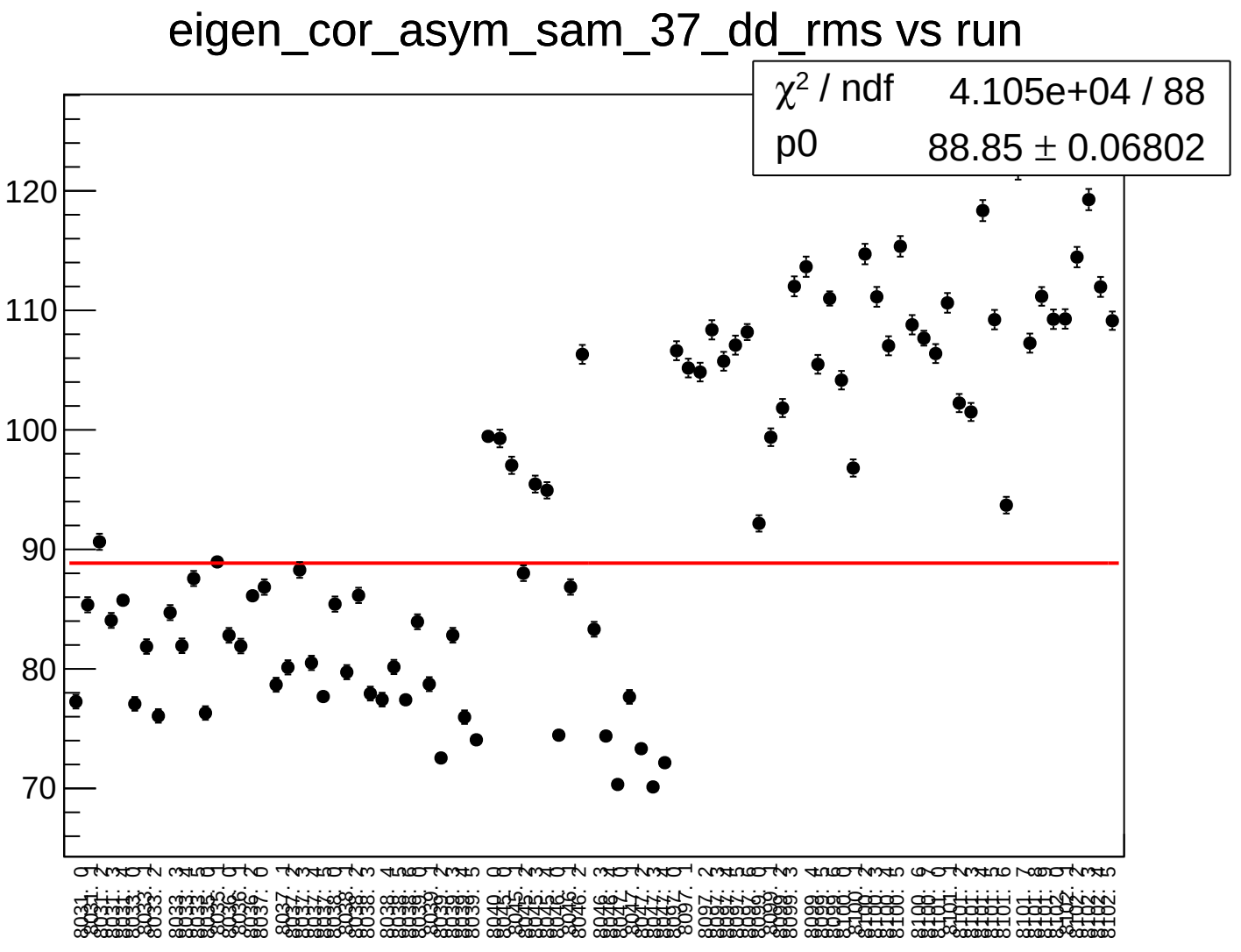

asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 71.58 / 88
p0 −910.4 ± 708.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 188.3
Std Dev 0
2
1
0
−1
−2
−3

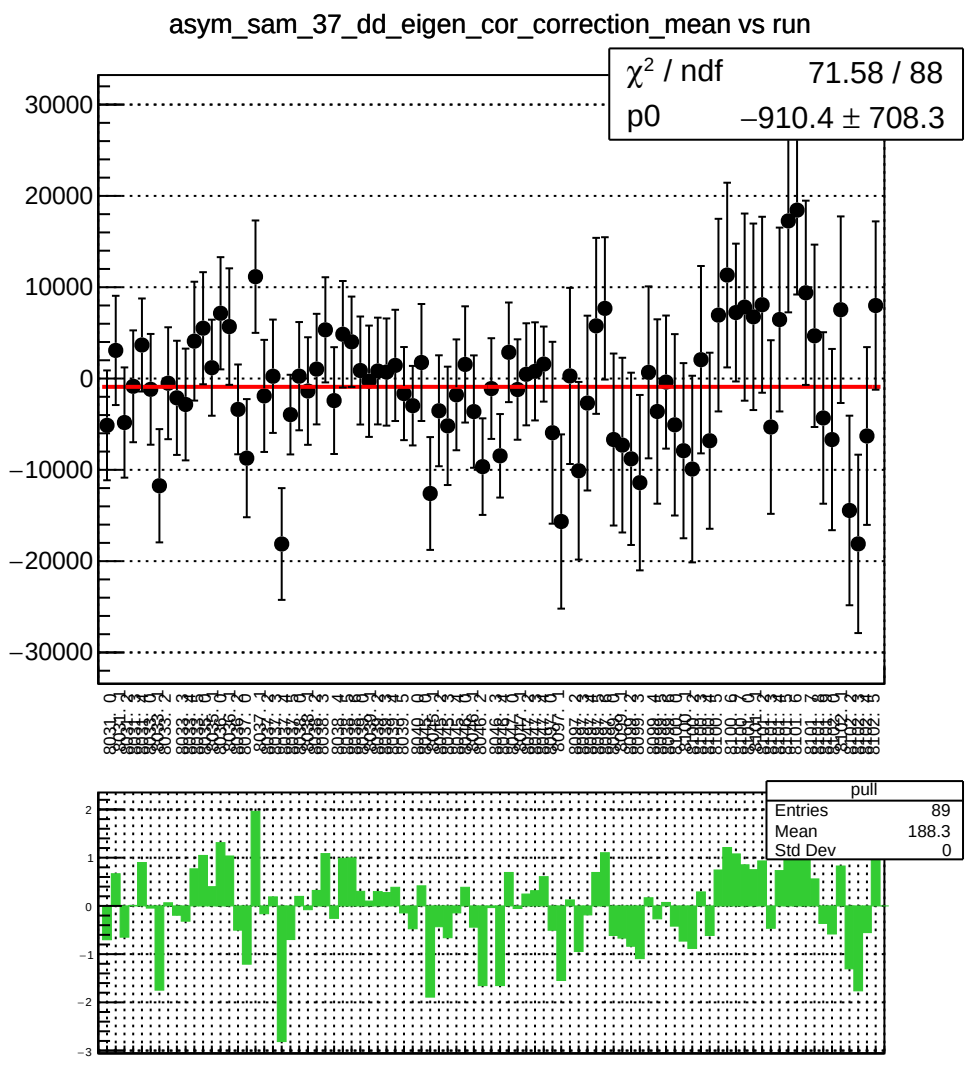

pull1D
Entries 89
Mean 0.008129
Std Dev 0.8968
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

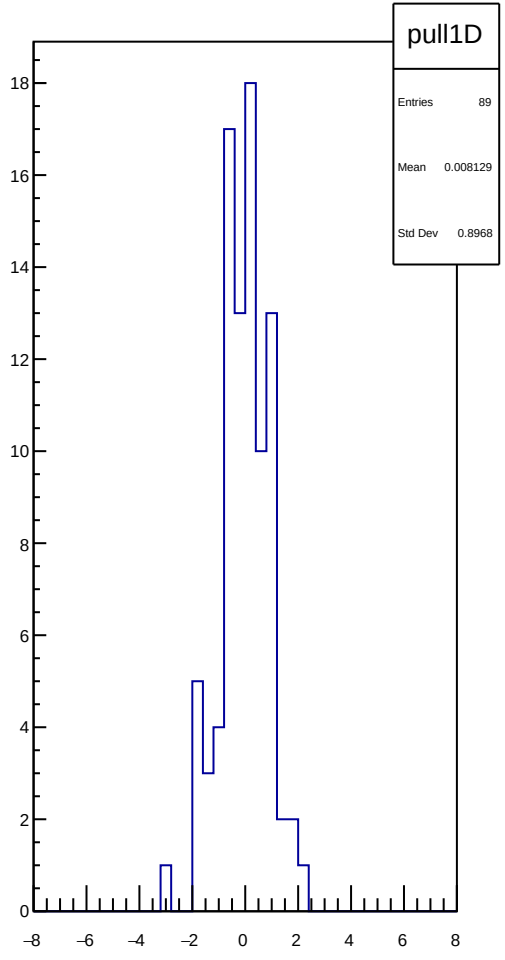

asym_sam_37_dd_cor_correction_rms vs run
χ² / ndf 9.056e+04 / 88
p0 644.7 ± 0.5009
1000
900
800
700
600
500

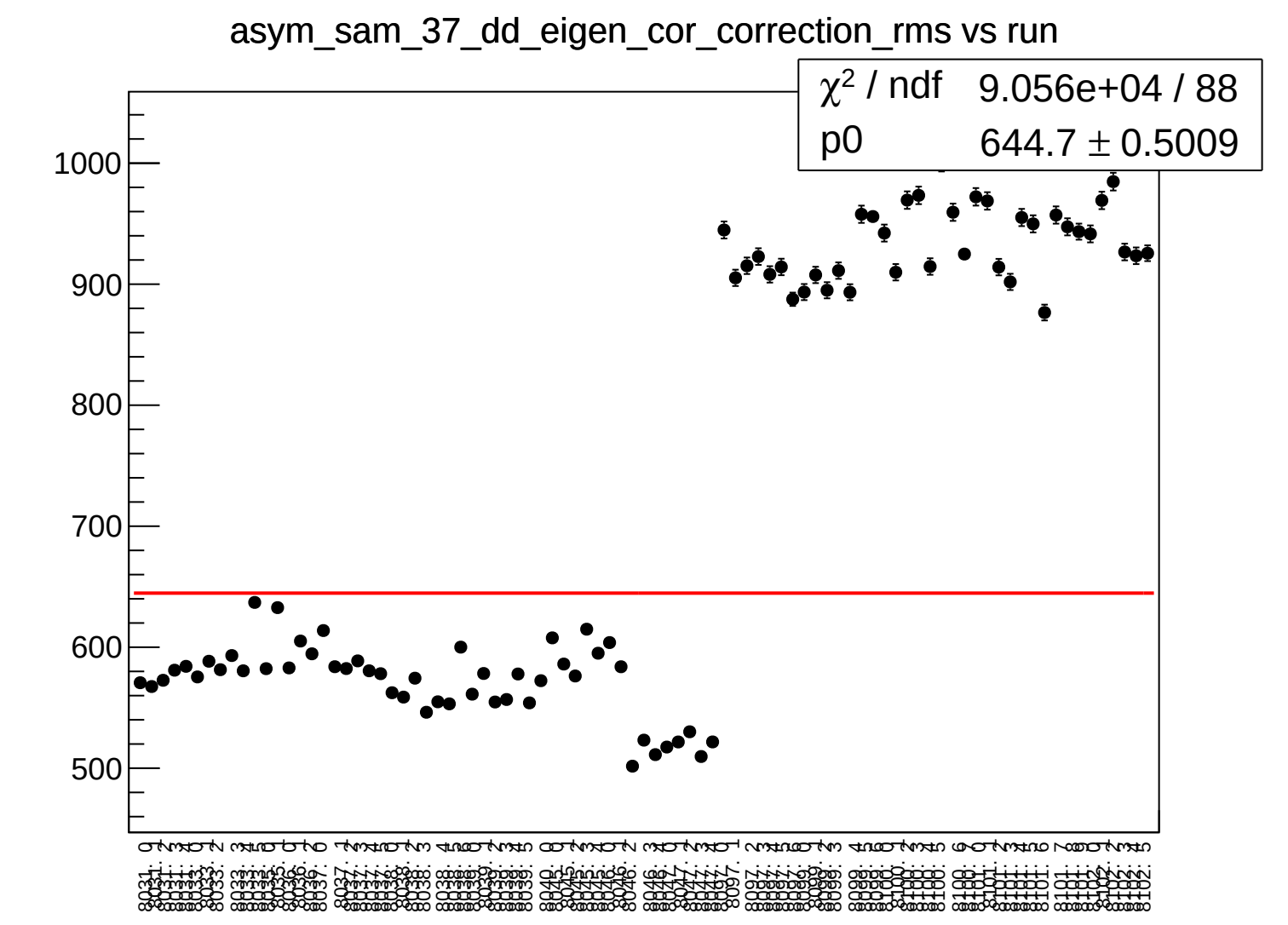

eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 92.48 / 88
p0 −10.32 ± 96.19
pull
Entries 89
Mean 224.4
Std Dev 0

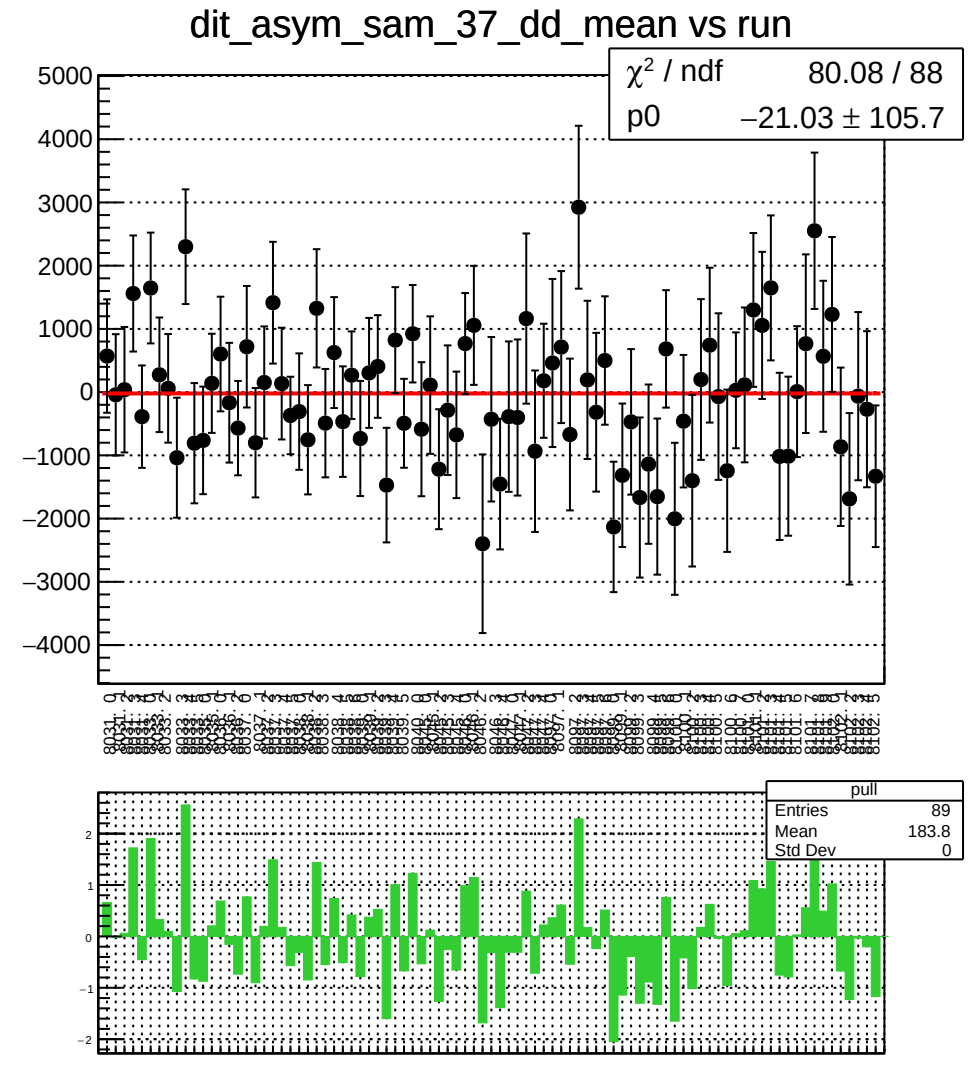

pull1D
Entries 89
Mean −0.0178
Std Dev 1.019

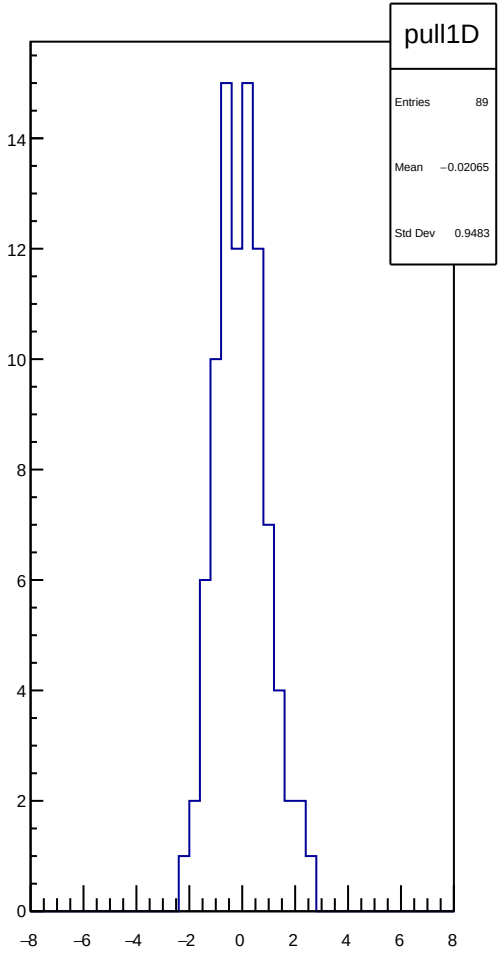

eigen_cor_asym_sam_37_dd_rms vs run
$\chi^2$ / ndf 4.105e+04 / 88
p0 88.85 ± 0.06802
120
110
100
90
80
70

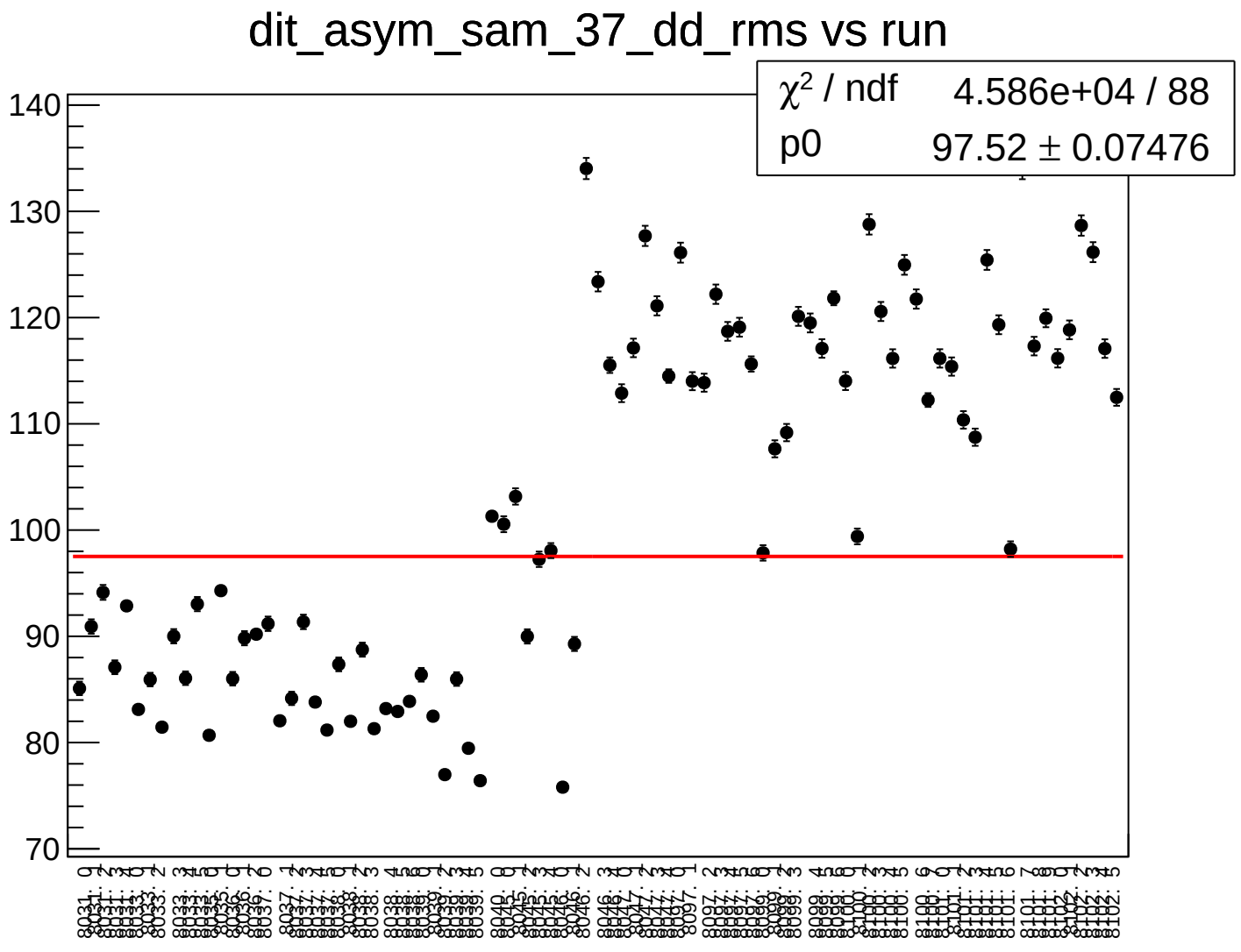

asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 71.58 / 88
p0 −910.4 ± 708.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 188.3
Std Dev 0
2
1
0
−1
−2
−3

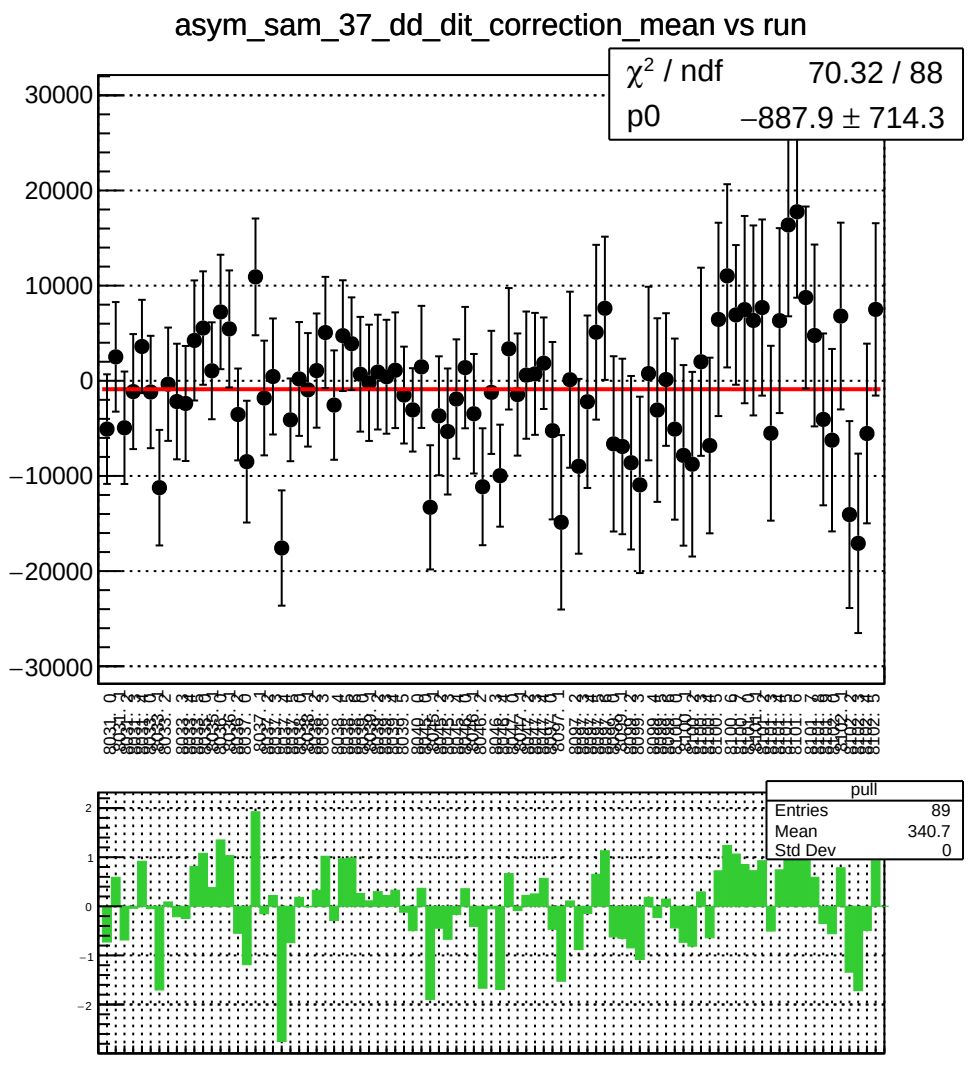

pull1D
Entries 89
Mean 0.008129
Std Dev 0.8968
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

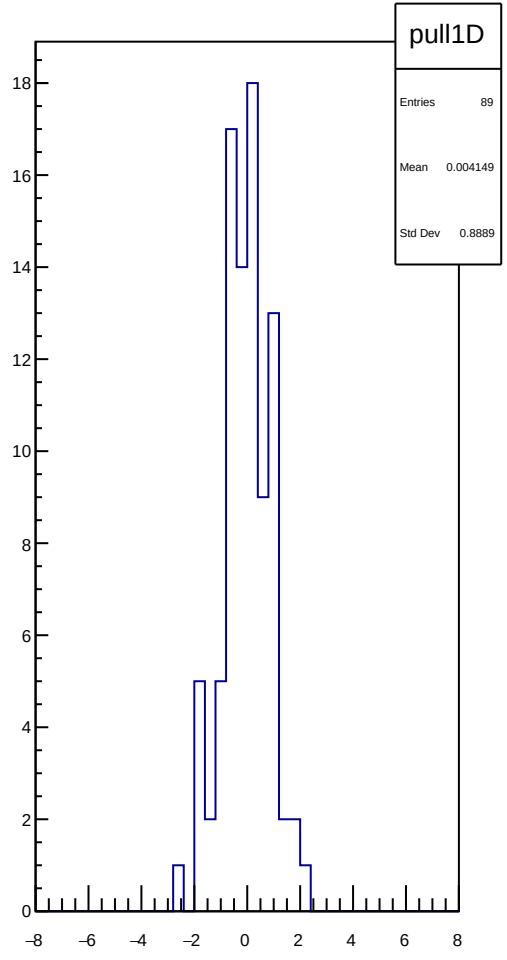

asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 9.056e+04 / 88
p0 644.7 ± 0.5009
1000
900
800
700
600
500

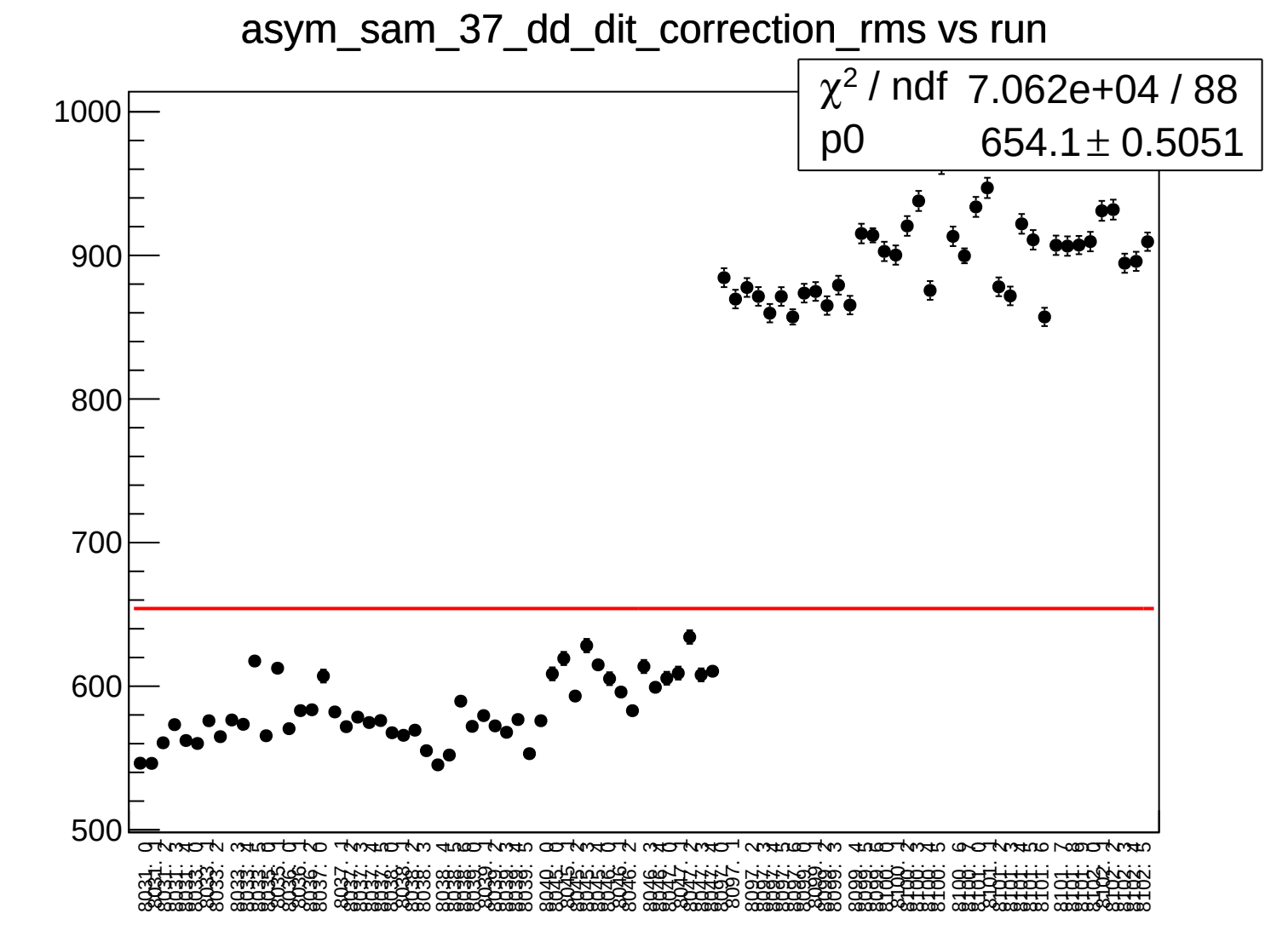

dit_asym_sam_37_dd_mean vs run
χ² / ndf 80.08 / 88
p0 −21.03 ± 105.7
pull
Entries 89
Mean 183.8
Std Dev 0

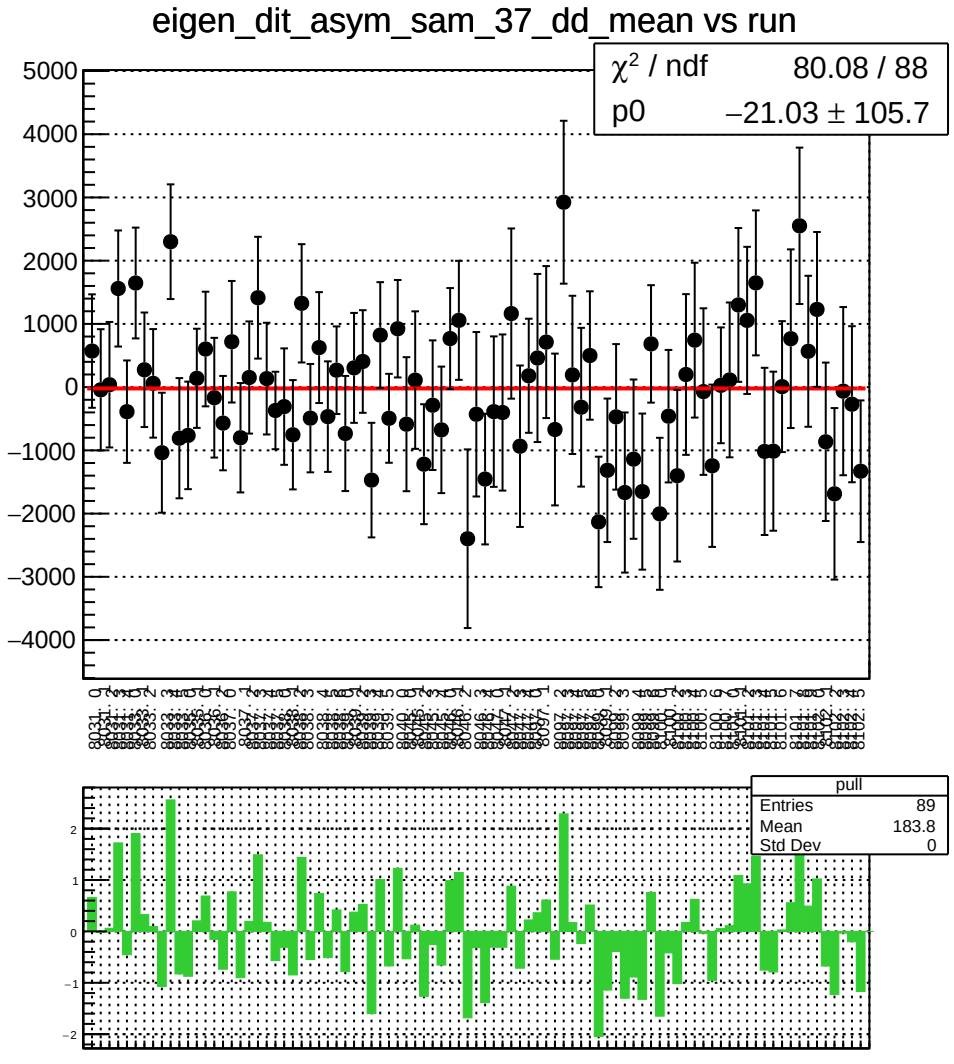

pull1D
Entries 89
Mean −0.02065
Std Dev 0.9483

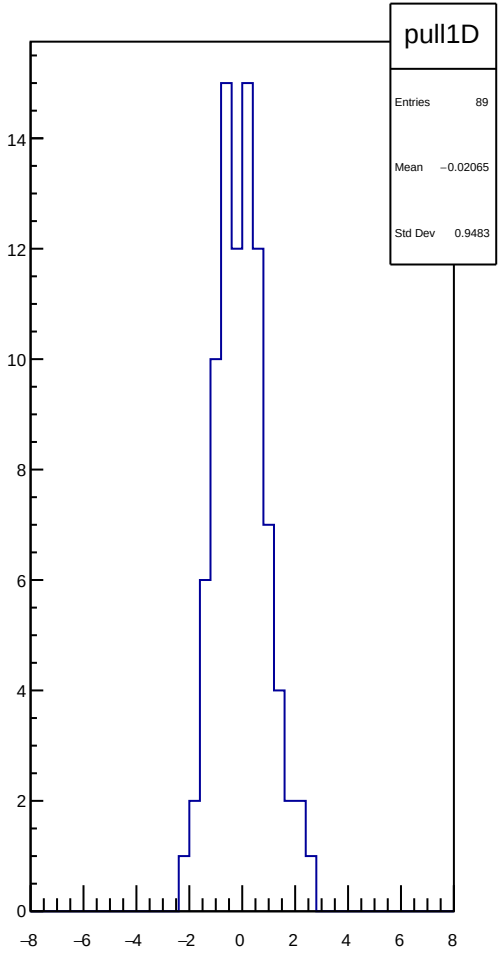

dit_asym_sam_37_dd_rms vs run
χ² / ndf 4.586e+04 / 88
p0 97.52 ± 0.07476
140
130
120
110
100
90
80
70

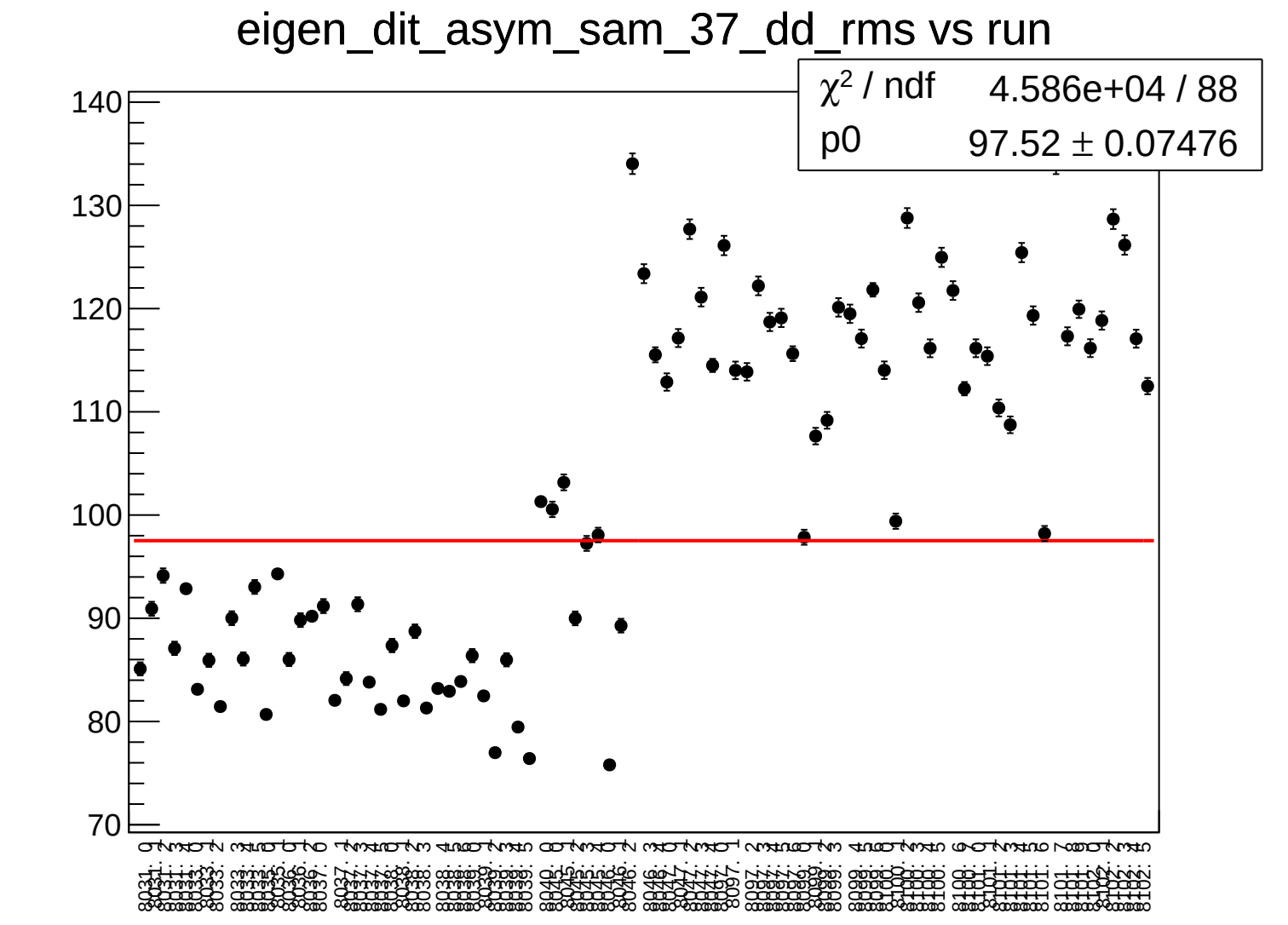

asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 70.32 / 88
p0 −887.9 ± 714.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 340.7
Std Dev 0
2
1
0
−1
−2

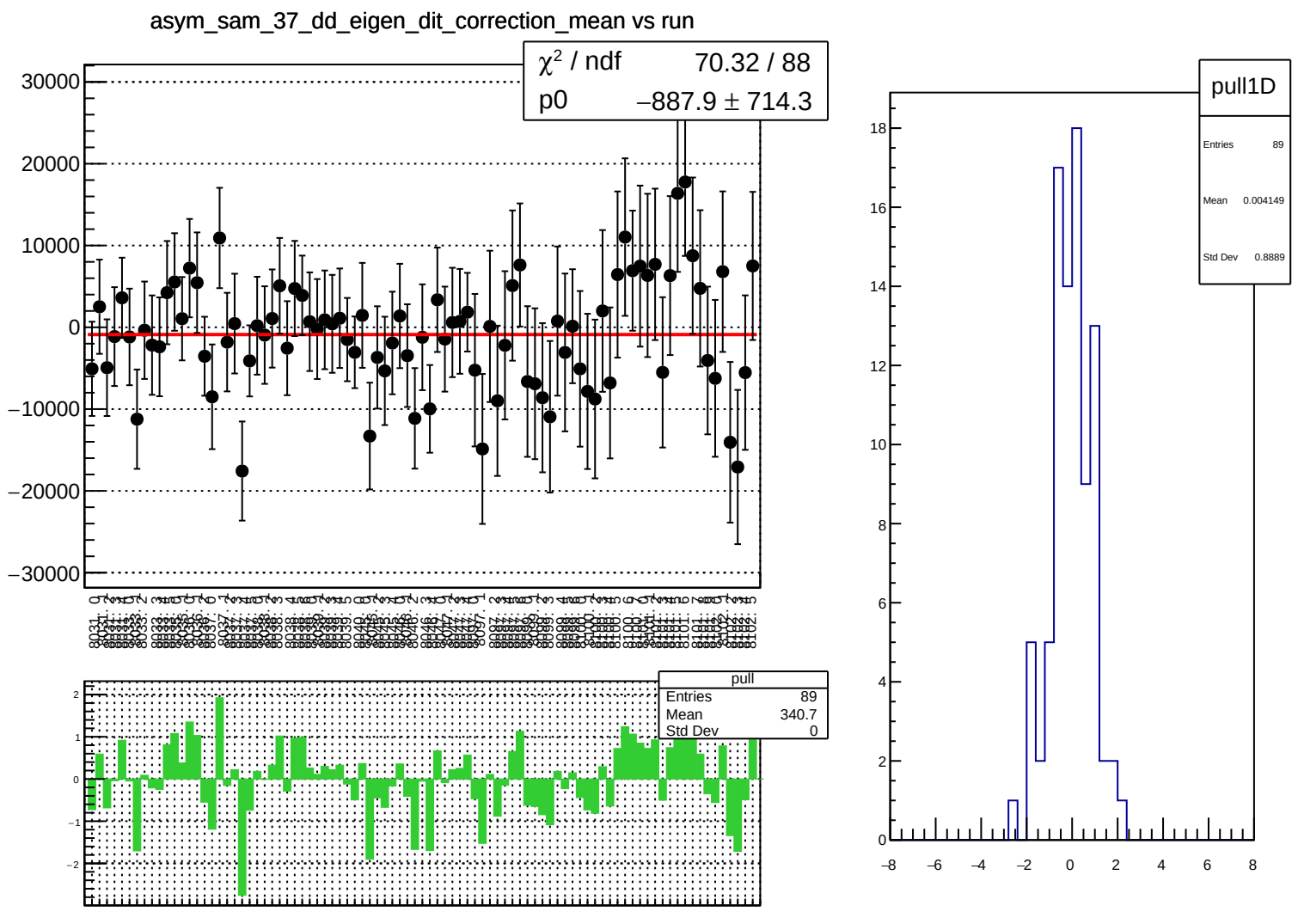

pull1D
Entries 89
Mean 0.004149
Std Dev 0.8889
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

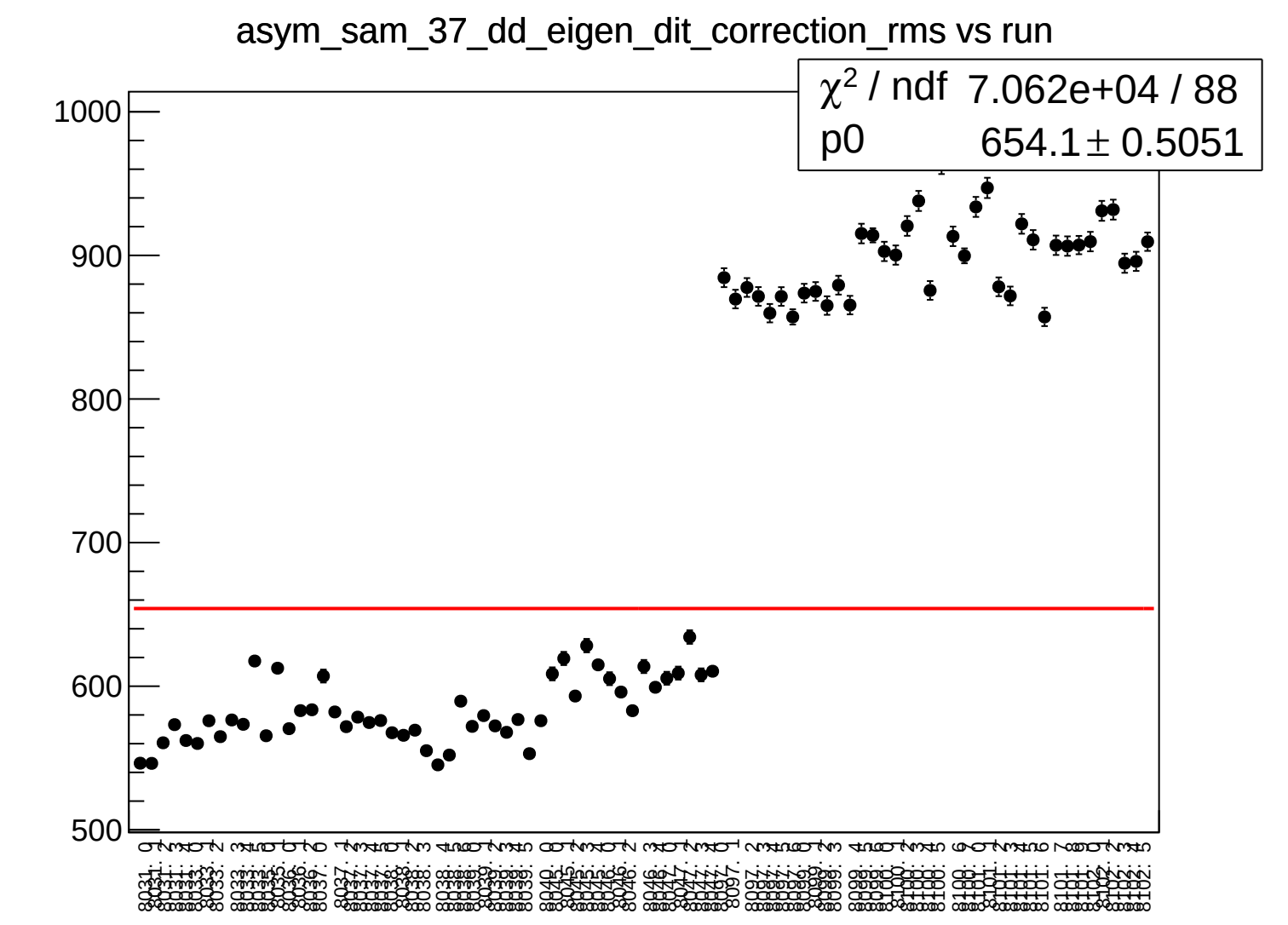

asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 7.062e+04 / 88
p0 654.1 ± 0.5051
1000
900
800
700
600
500

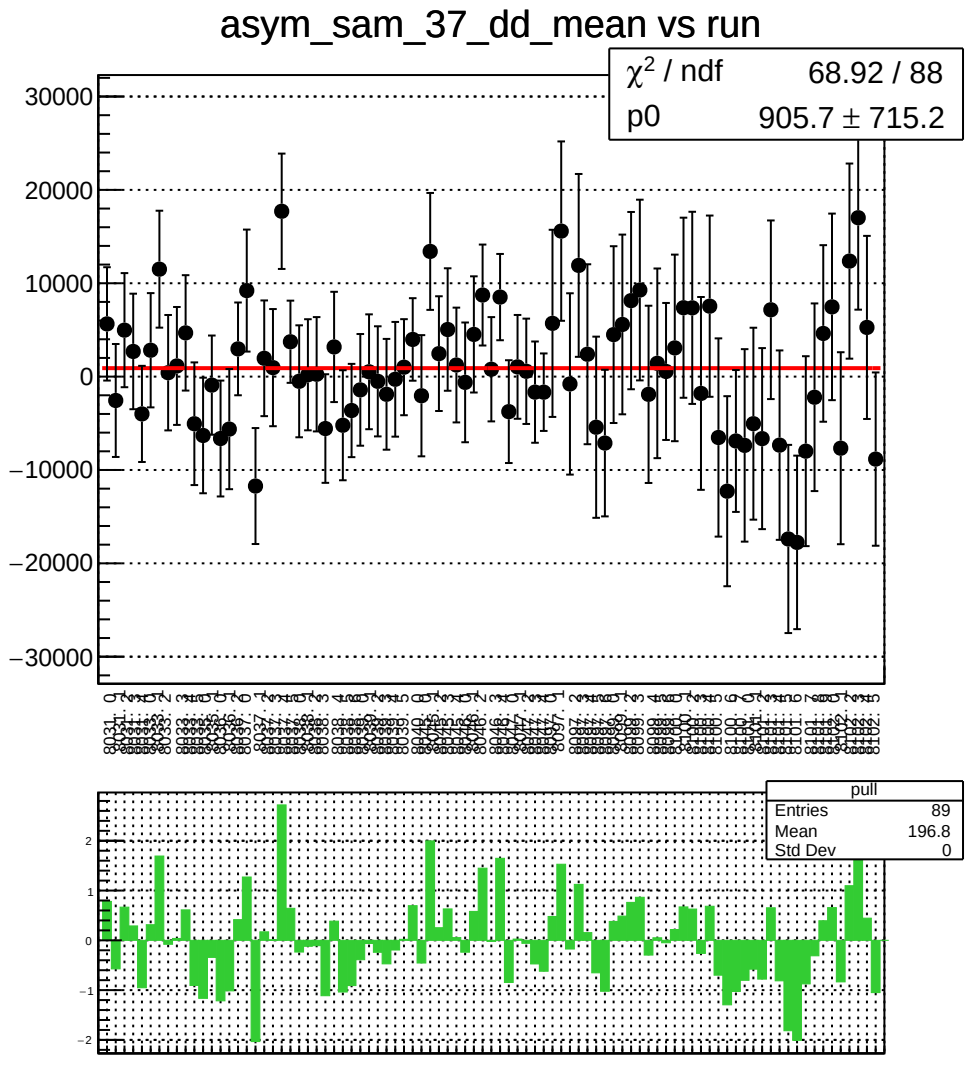

eigen_dit_asym_sam_37_dd_mean vs run
χ² / ndf 80.08 / 88
p0 −21.03 ± 105.7
pull
Entries 89
Mean 183.8
Std Dev 0

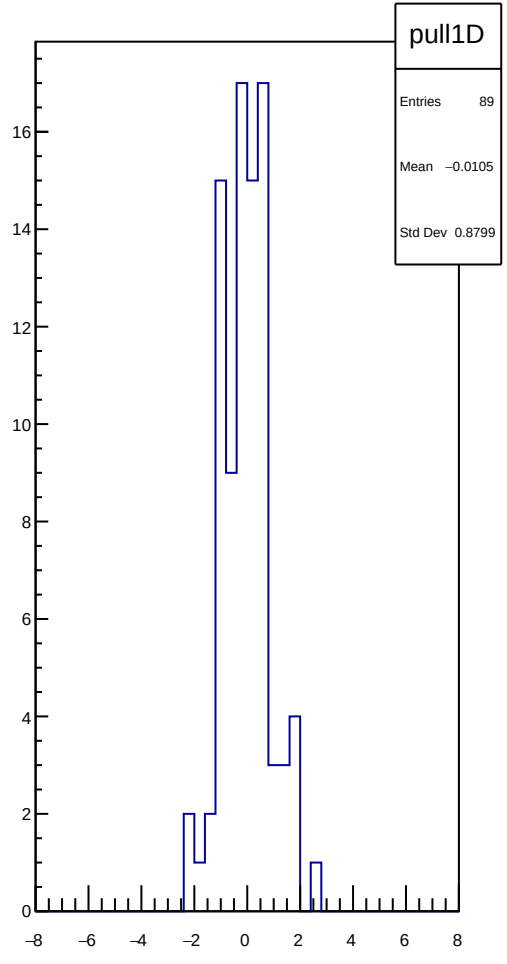

pull1D
Entries 89
Mean −0.02065
Std Dev 0.9483

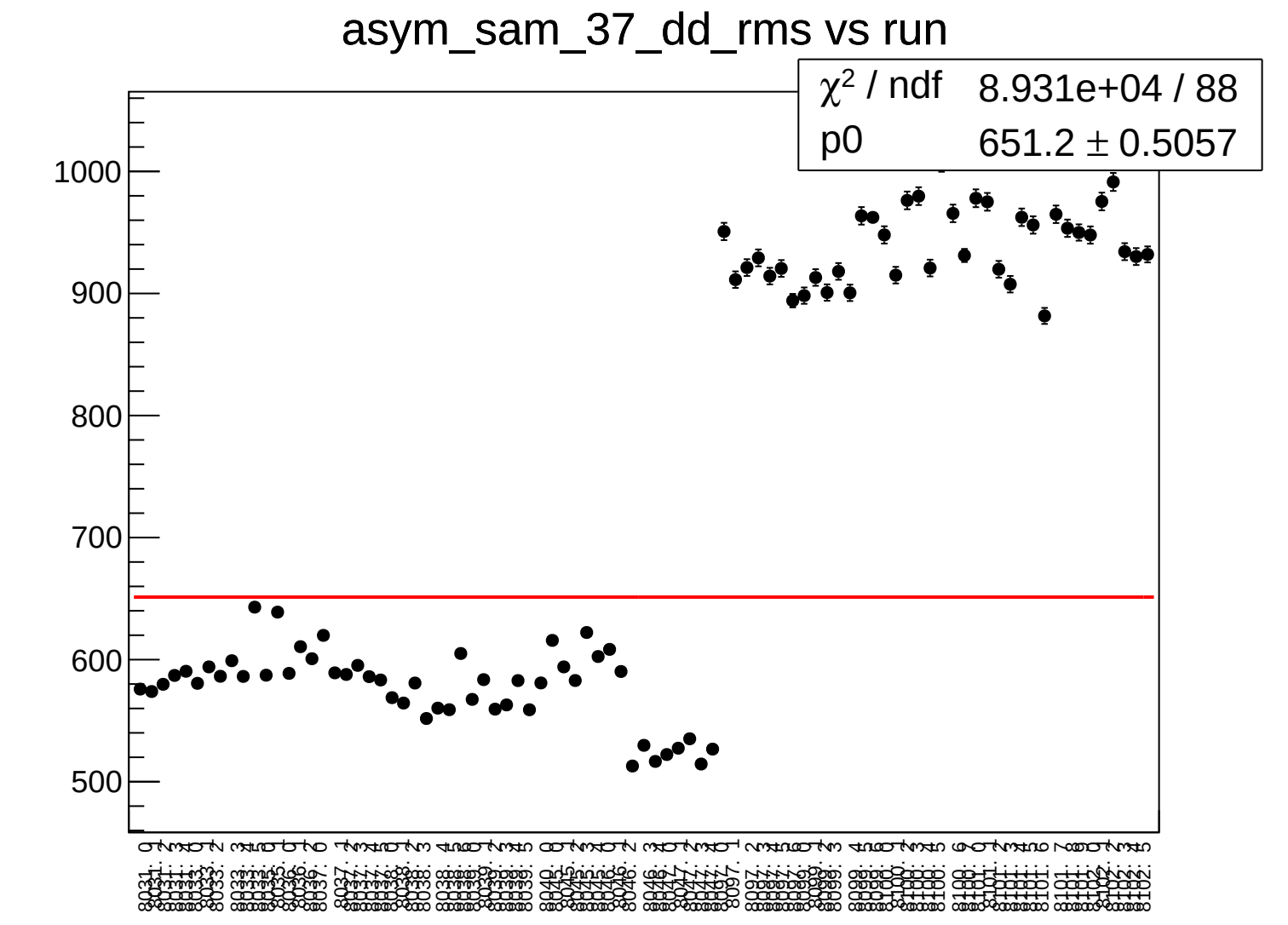

eigen_dit_asym_sam_37_dd_rms vs run
χ² / ndf 4.586e+04 / 88
p0 97.52 ± 0.07476
140
130
120
110
100
90
80
70

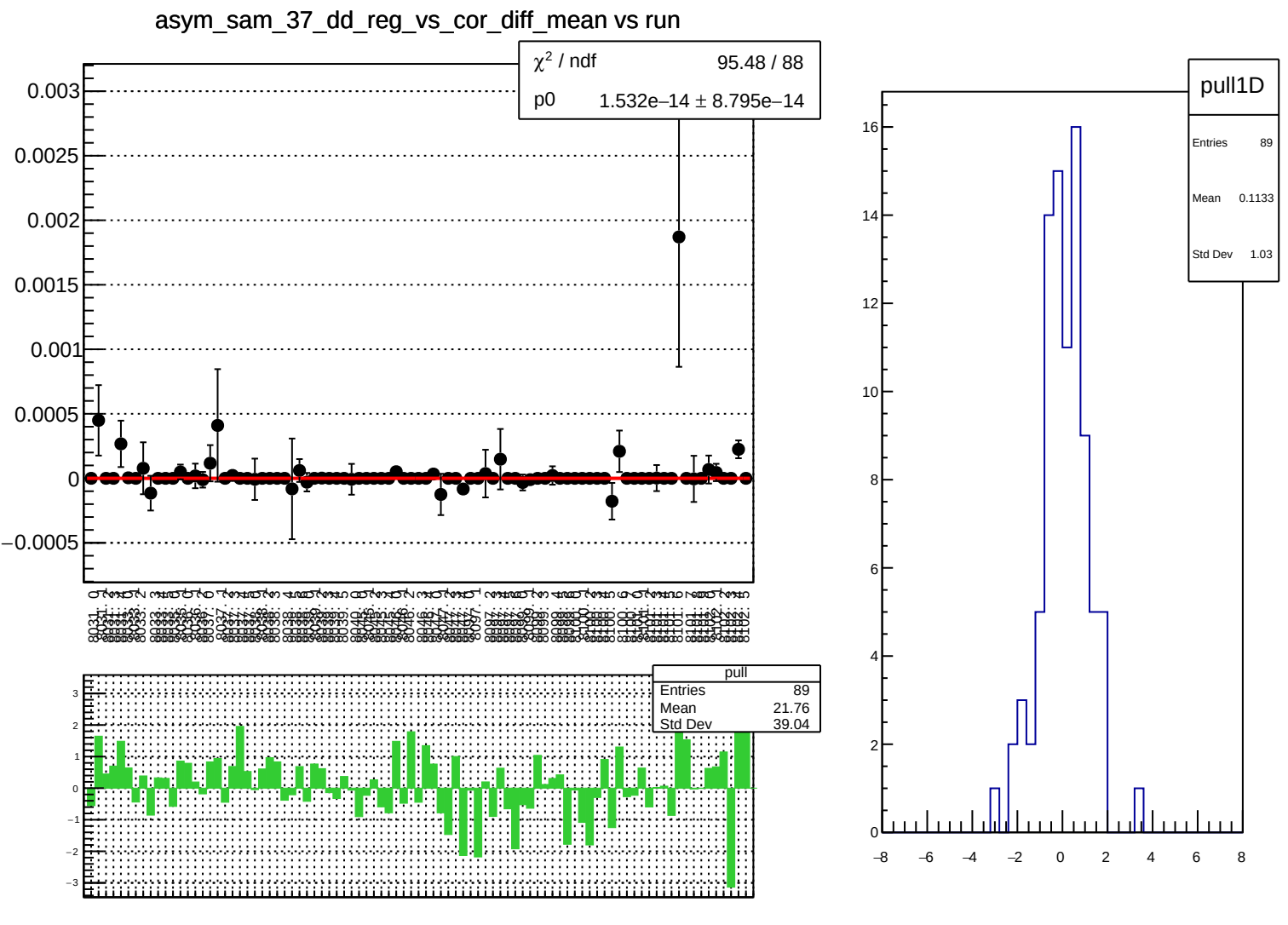

asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 70.32 / 88
p0 −887.9 ± 714.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 340.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.004149
Std Dev 0.8889
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

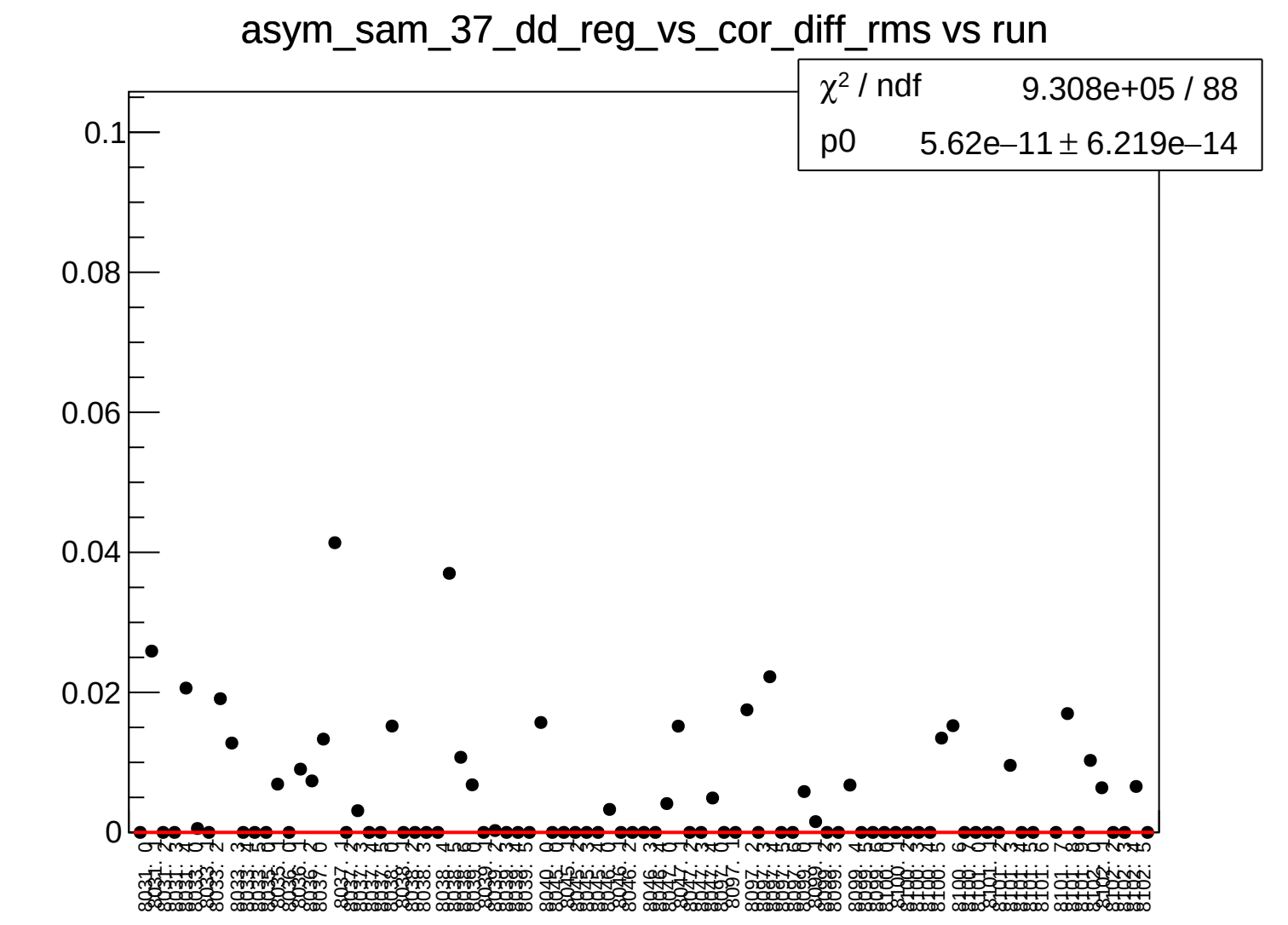

asym_sam_37_dd_eigen_dit_correction_rms vs run
$\chi^2$ / ndf 7.062e+04 / 88
p0 654.1 ± 0.5051
1000
900
800
700
600
500

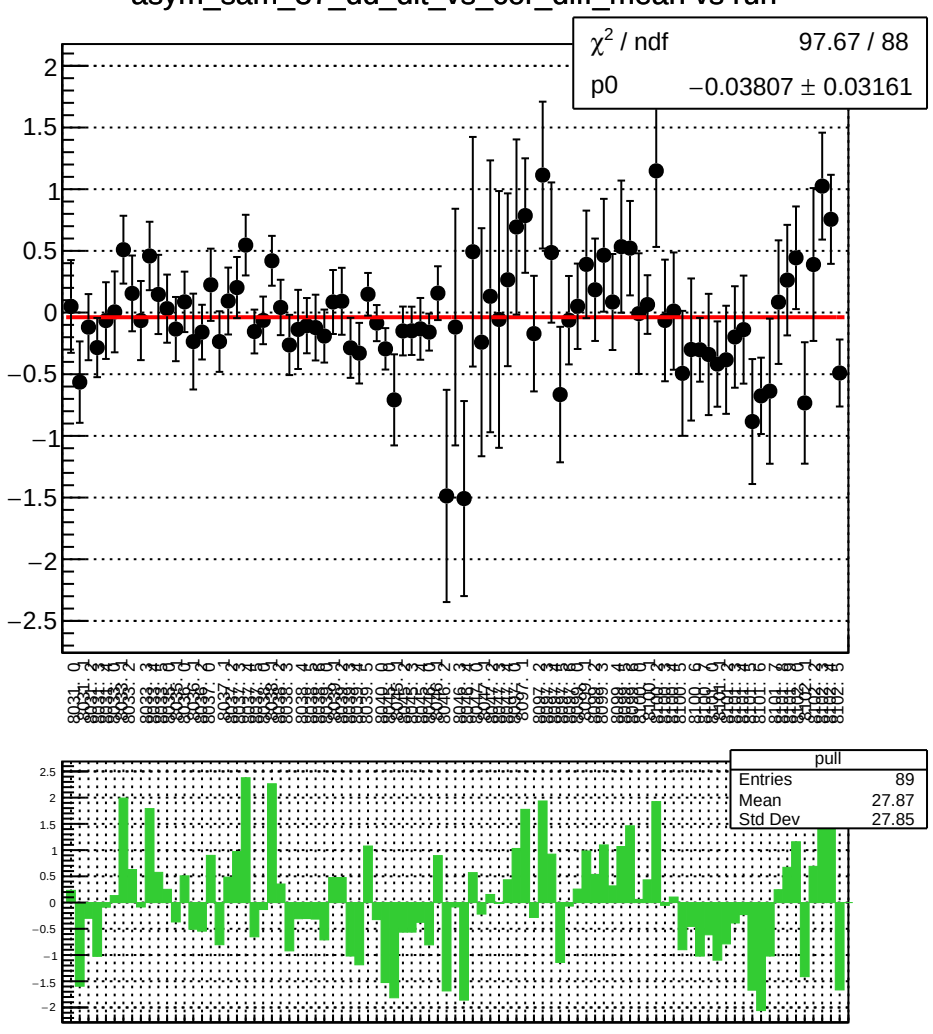

asym_sam_37_dd_mean vs run
χ² / ndf 68.92 / 88
p0 905.7 ± 715.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 196.8
Std Dev 0
2
1
0
−1
−2

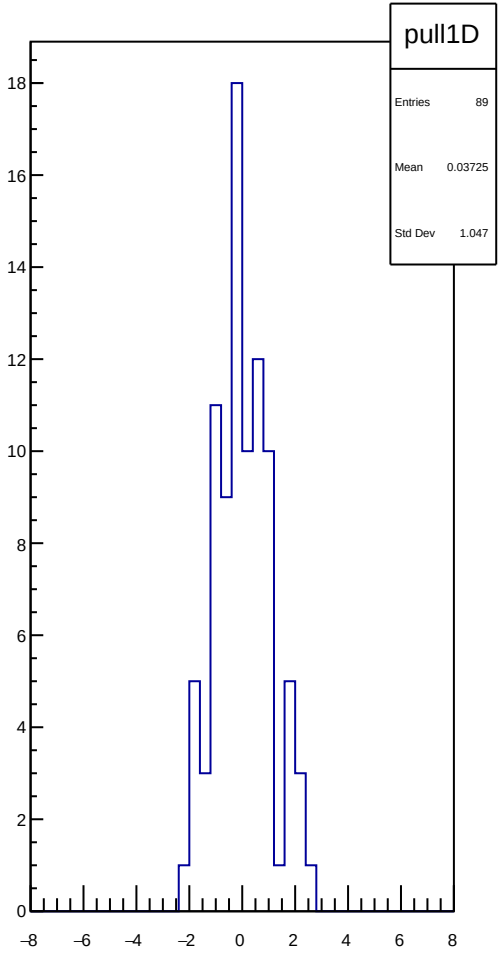

pull1D
Entries 89
Mean −0.0105
Std Dev 0.8799
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

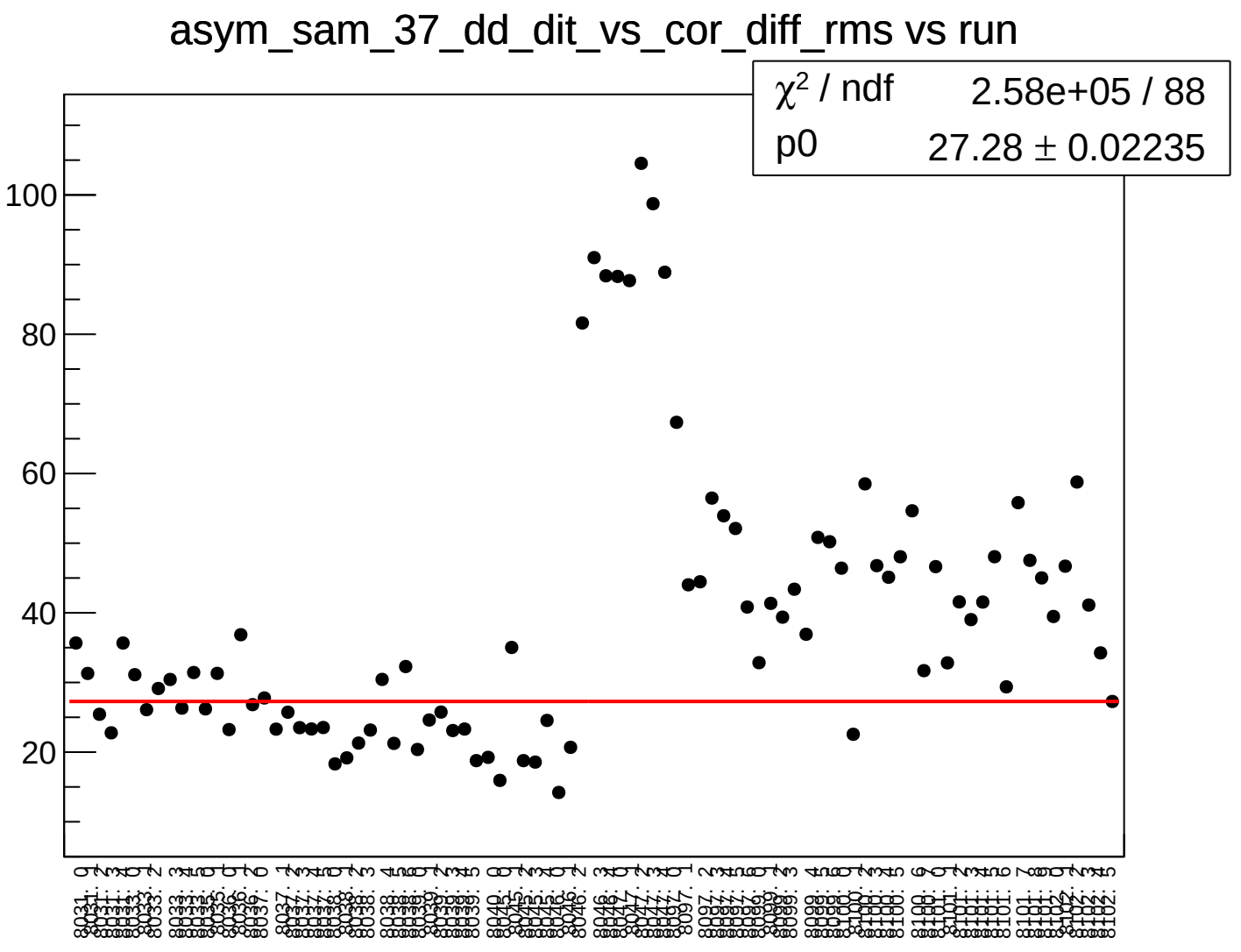

asym_sam_37_dd_rms vs run
χ² / ndf 8.931e+04 / 88
p0 651.2 ± 0.5057
1000
900
800
700
600
500

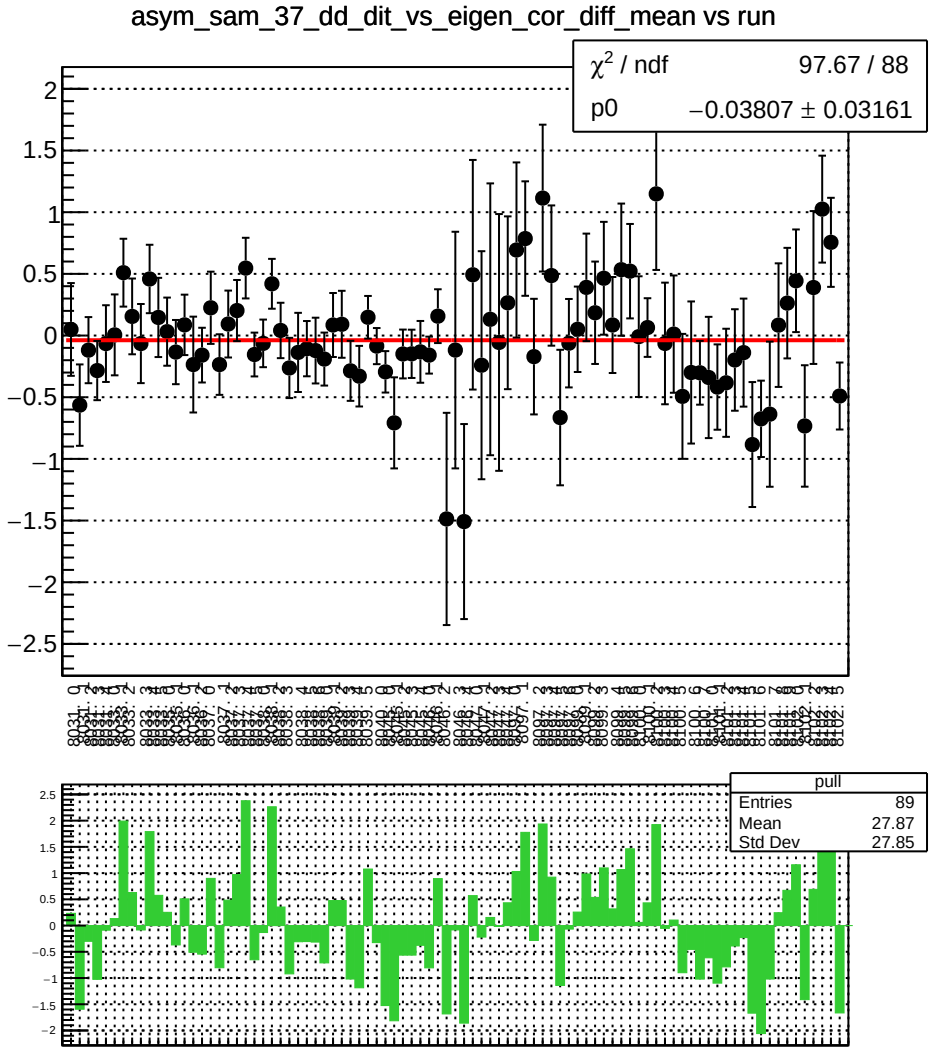

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 95.48 / 88
p0 1.532e−14 ± 8.795e−14
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
−0.0005
pull
Entries 89
Mean 21.76
Std Dev 39.04
3
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.1133
Std Dev 1.03
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

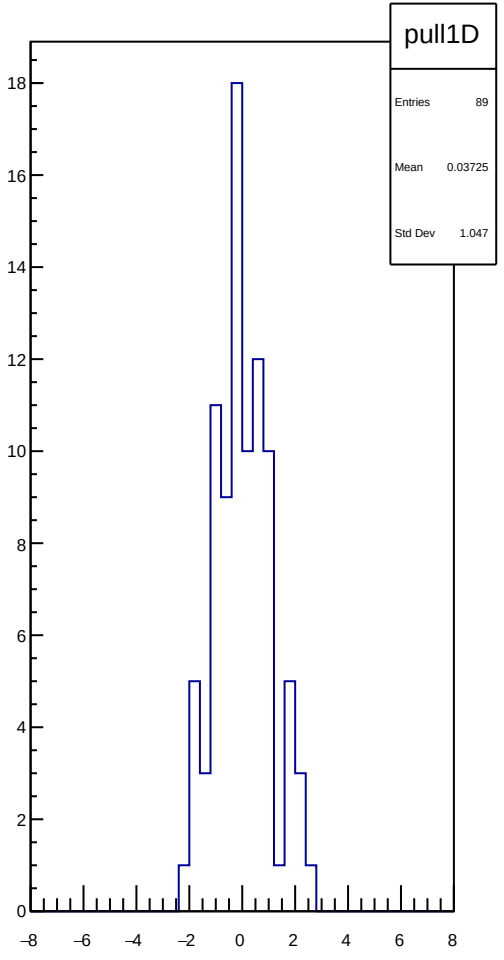

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.308e+05 / 88
p0 5.62e−11 ± 6.219e−14
0.1
0.08
0.06
0.04
0.02
0

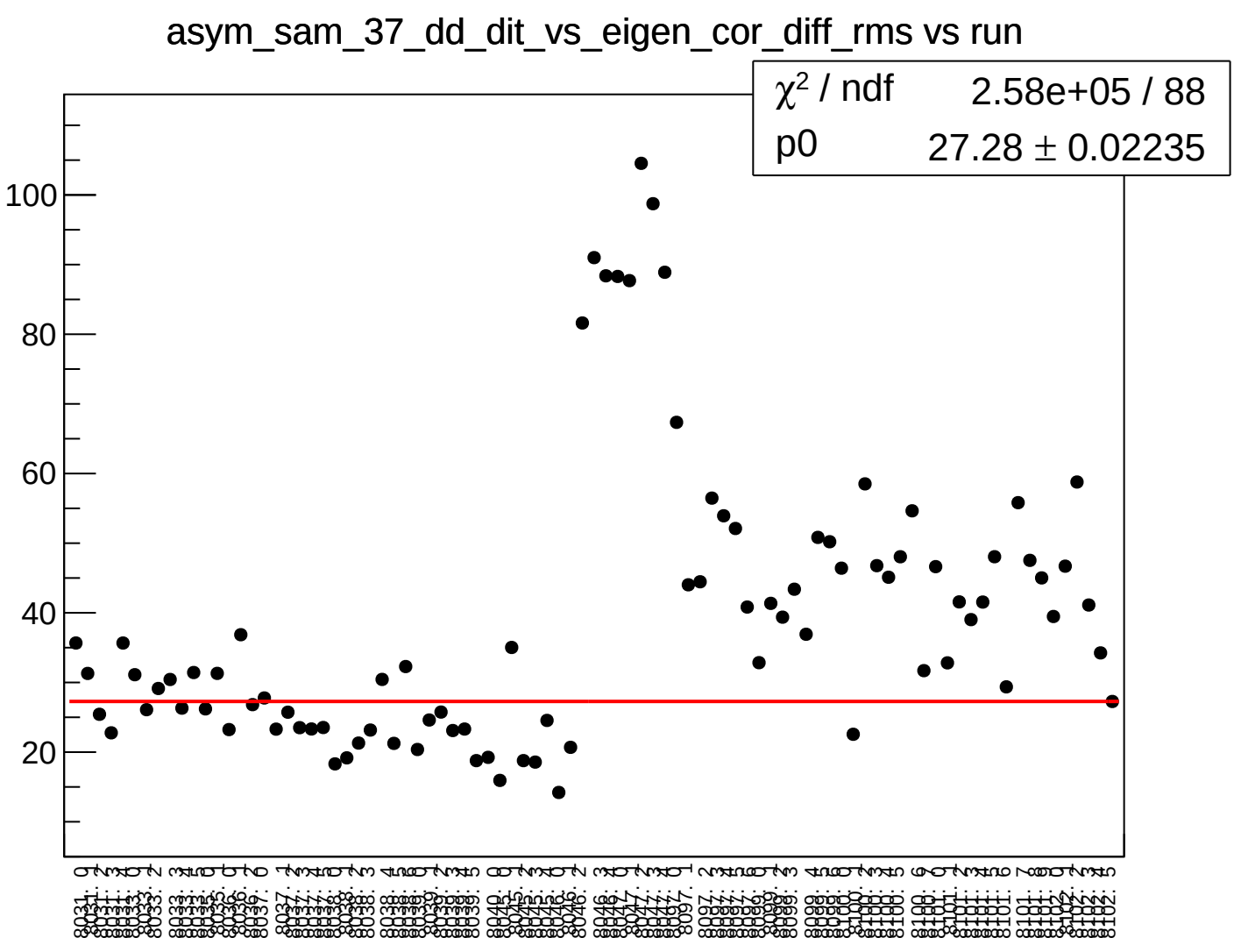

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 97.67 / 88
p0 −0.03807 ± 0.03161
pull
Entries 89
Mean 27.87
Std Dev 27.85

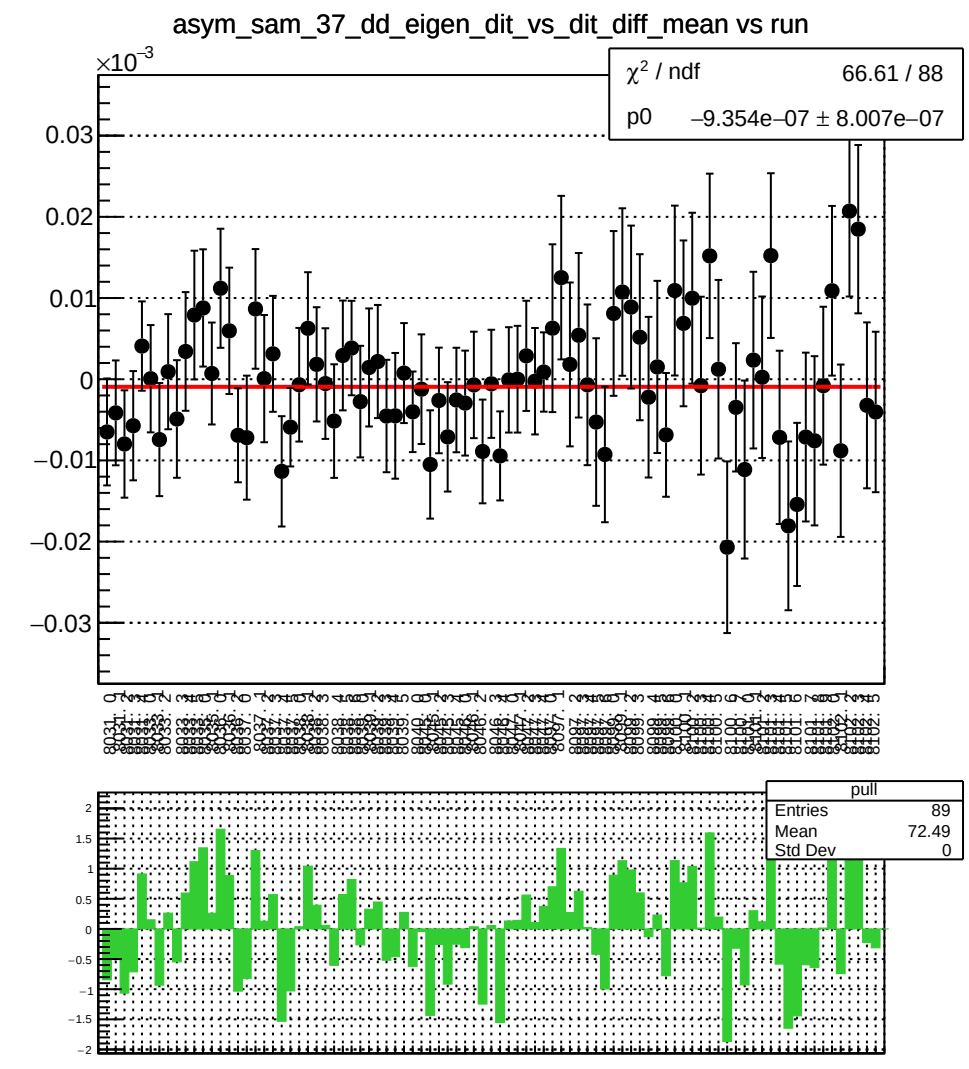

pull1D
Entries 89
Mean 0.03725
Std Dev 1.047

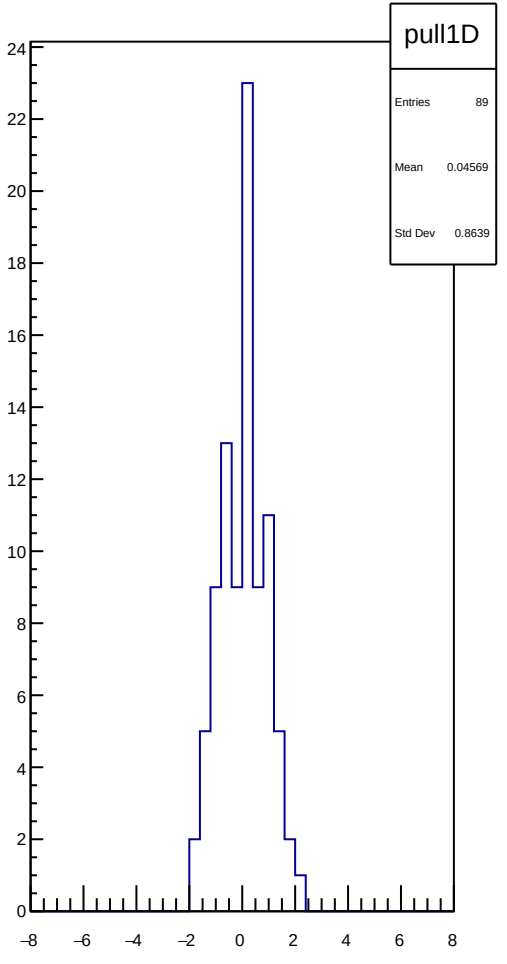

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.58e+05 / 88
p0 27.28 ± 0.02235
100
80
60
40
20

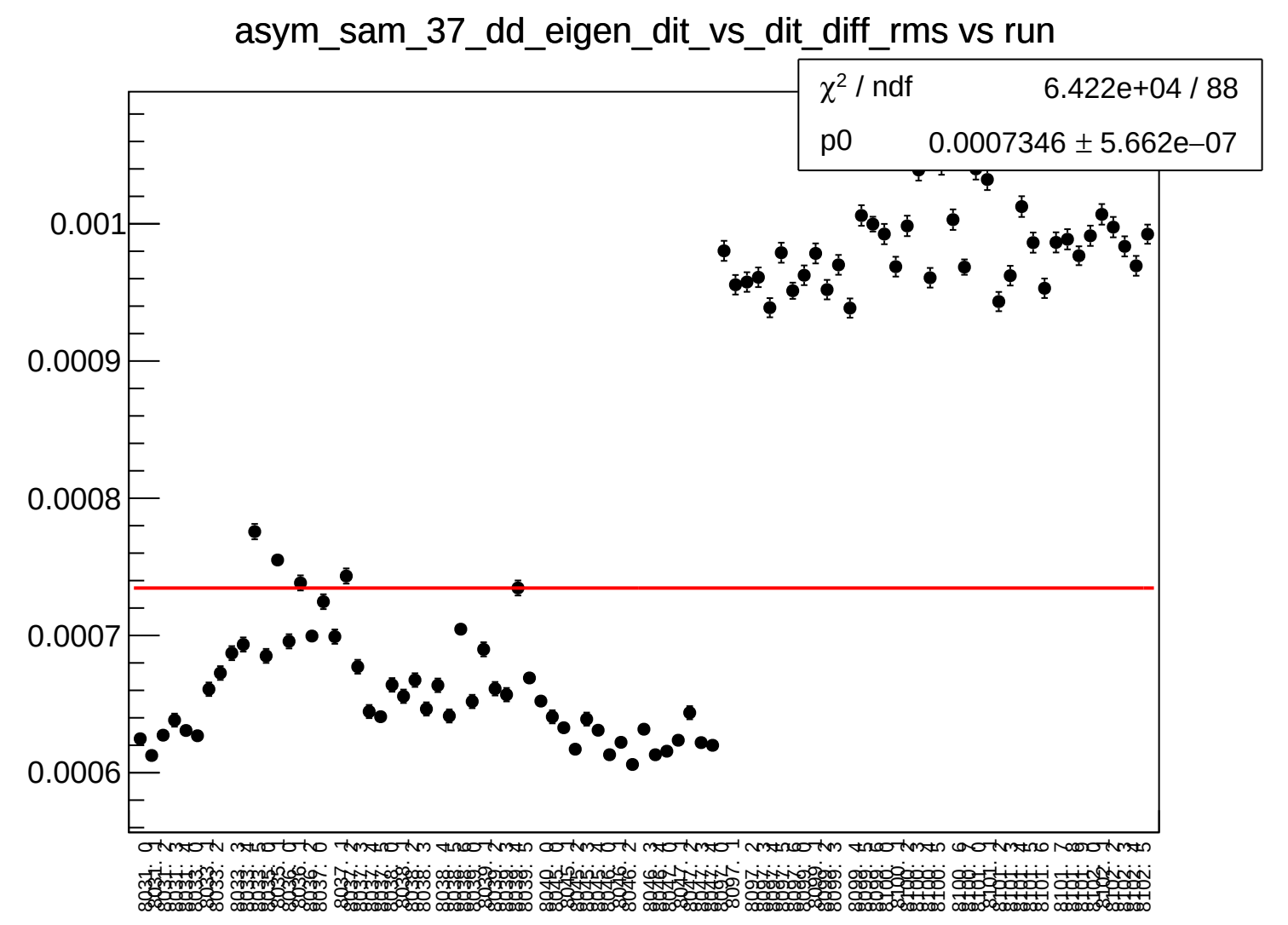

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.67 / 88
p0 −0.03807 ± 0.03161
pull
Entries 89
Mean 27.87
Std Dev 27.85

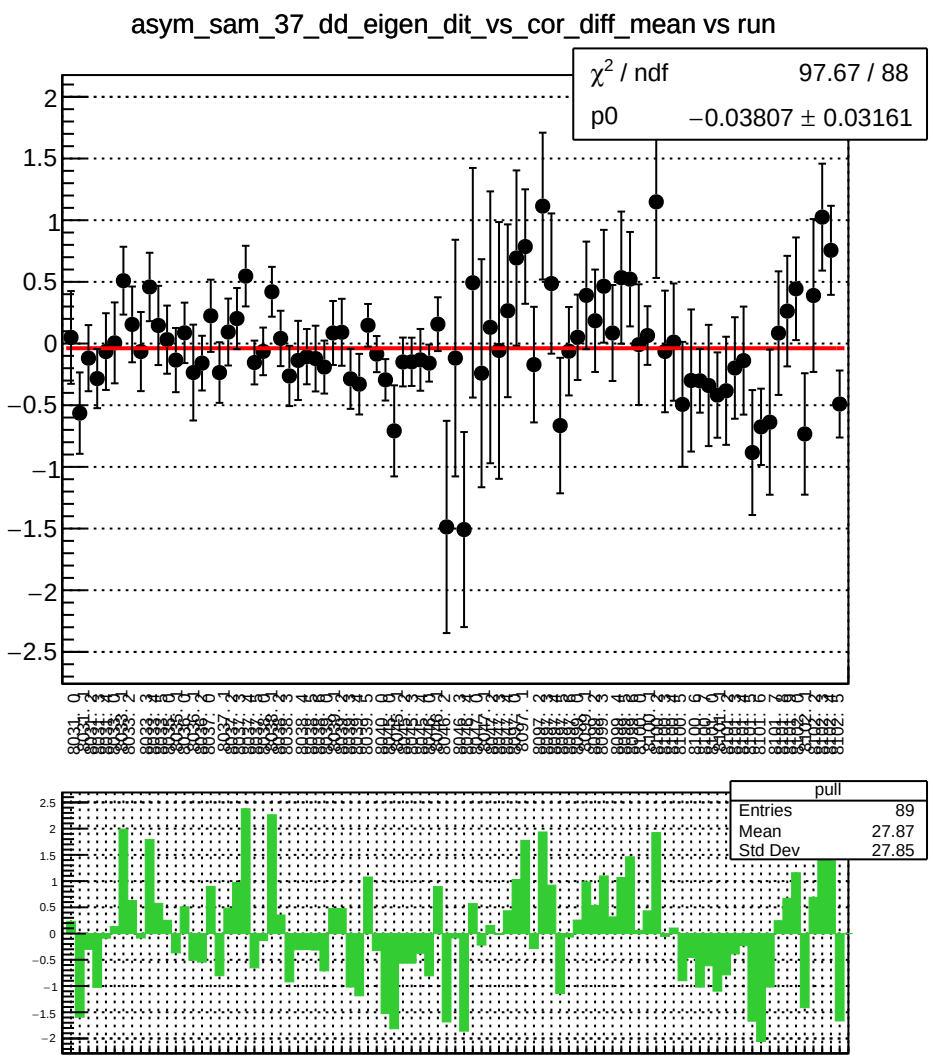

pull1D
Entries 89
Mean 0.03725
Std Dev 1.047

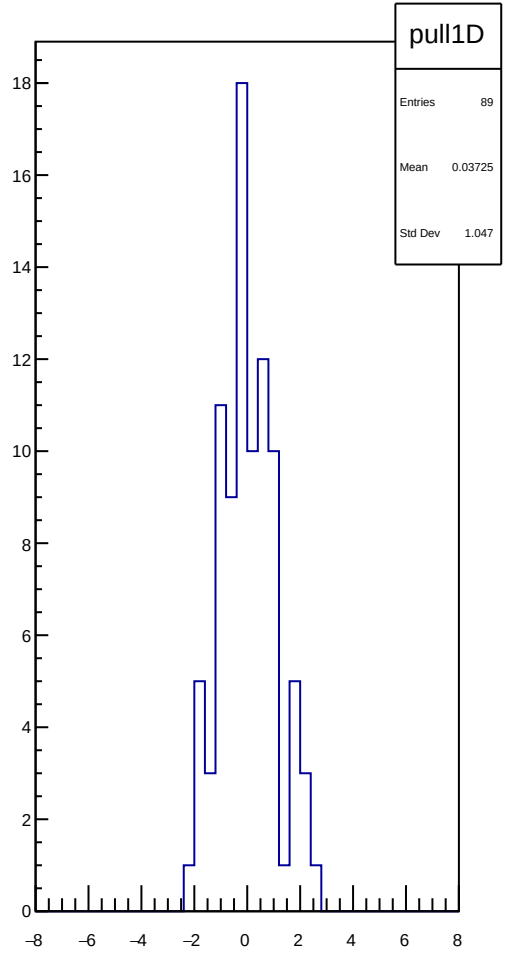

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.58e+05 / 88
p0 27.28 ± 0.02235
100
80
60
40
20

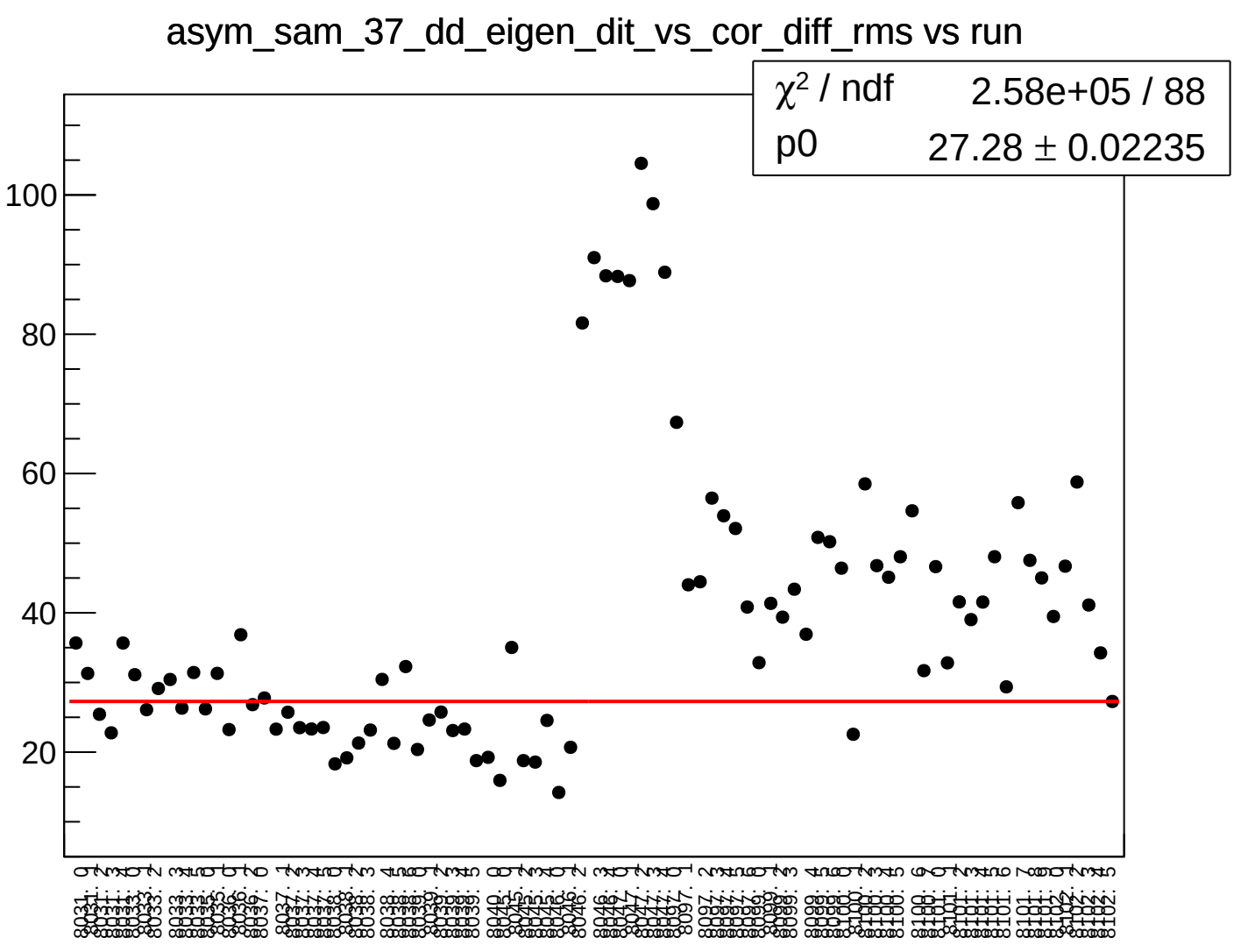

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 66.61 / 88
p0 −9.354e−07 ± 8.007e−07
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 89
Mean 72.49
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

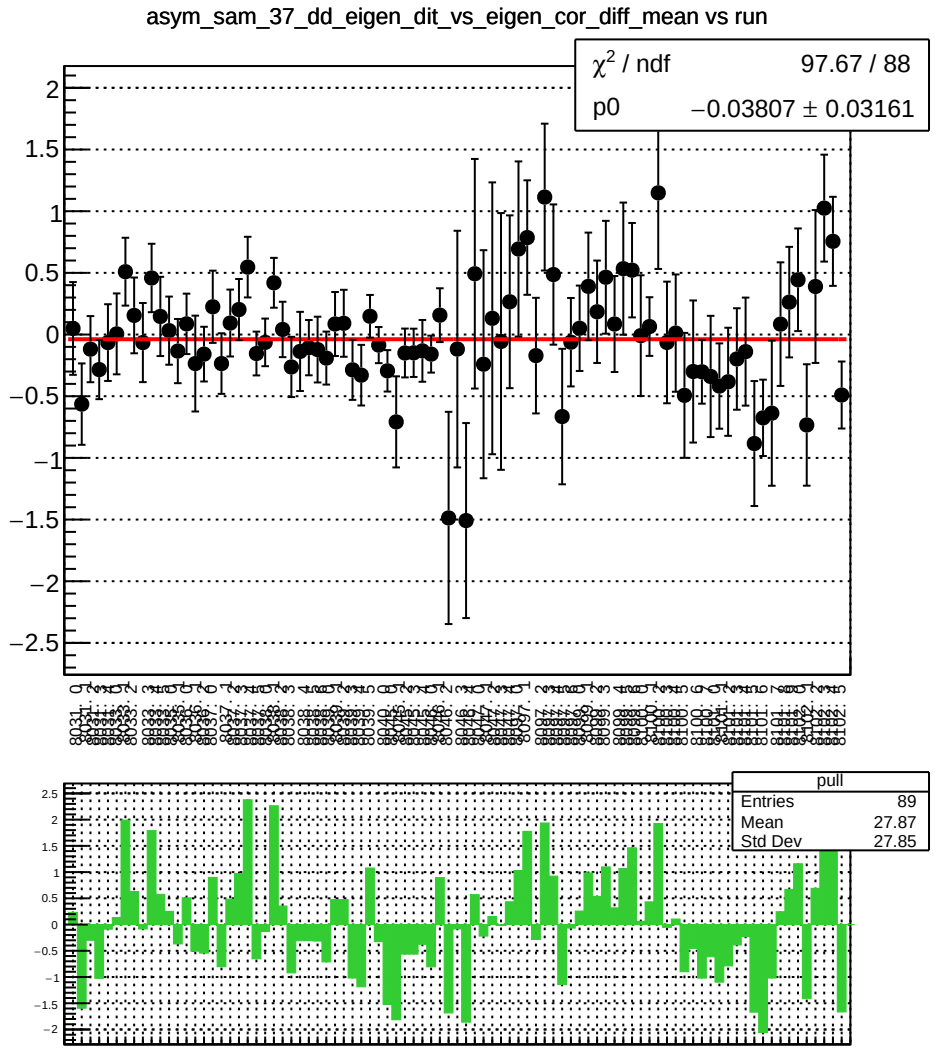

pull1D
Entries 89
Mean 0.04569
Std Dev 0.8639
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

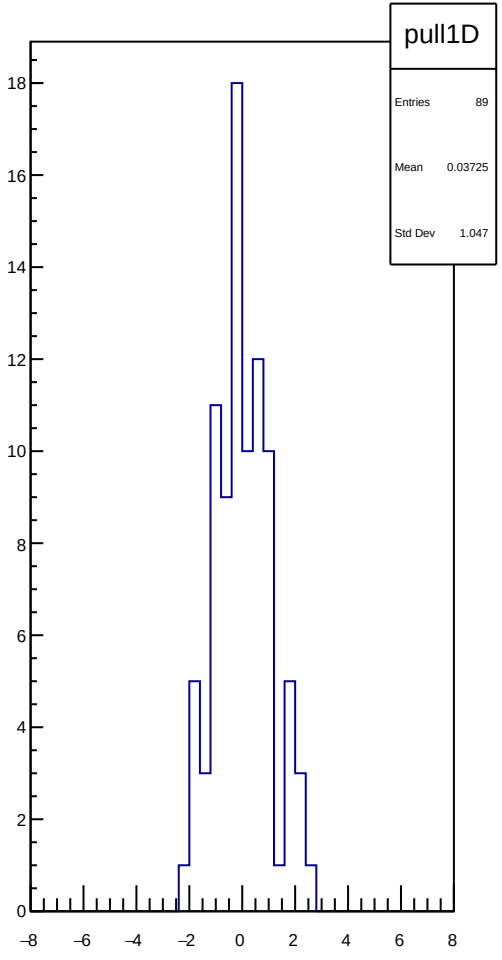

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.422e+04 / 88
p0 0.0007346 ± 5.662e−07
0.001
0.0009
0.0008
0.0007
0.0006

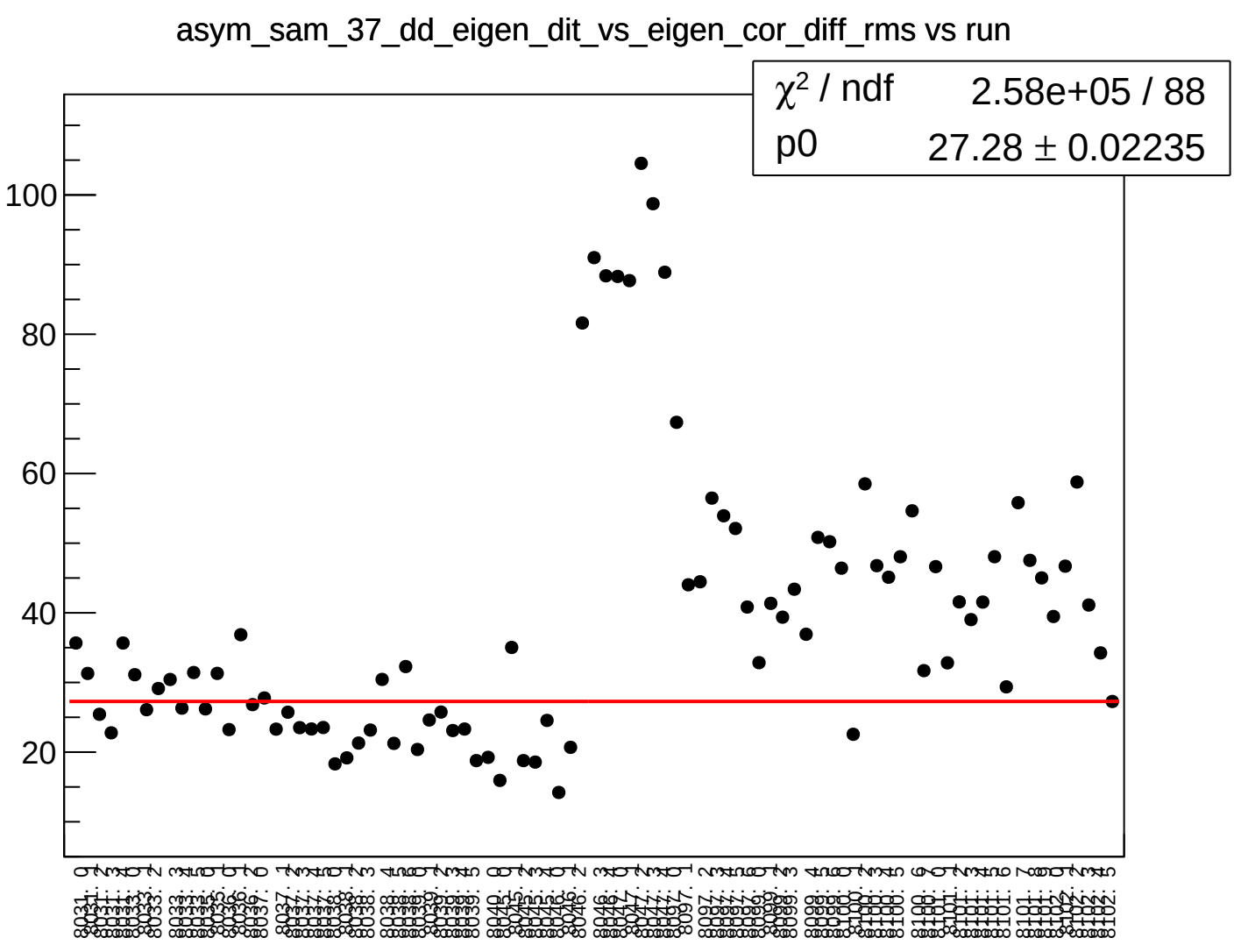

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.67 / 88
p0 −0.03807 ± 0.03161
pull
Entries 89
Mean 27.87
Std Dev 27.85

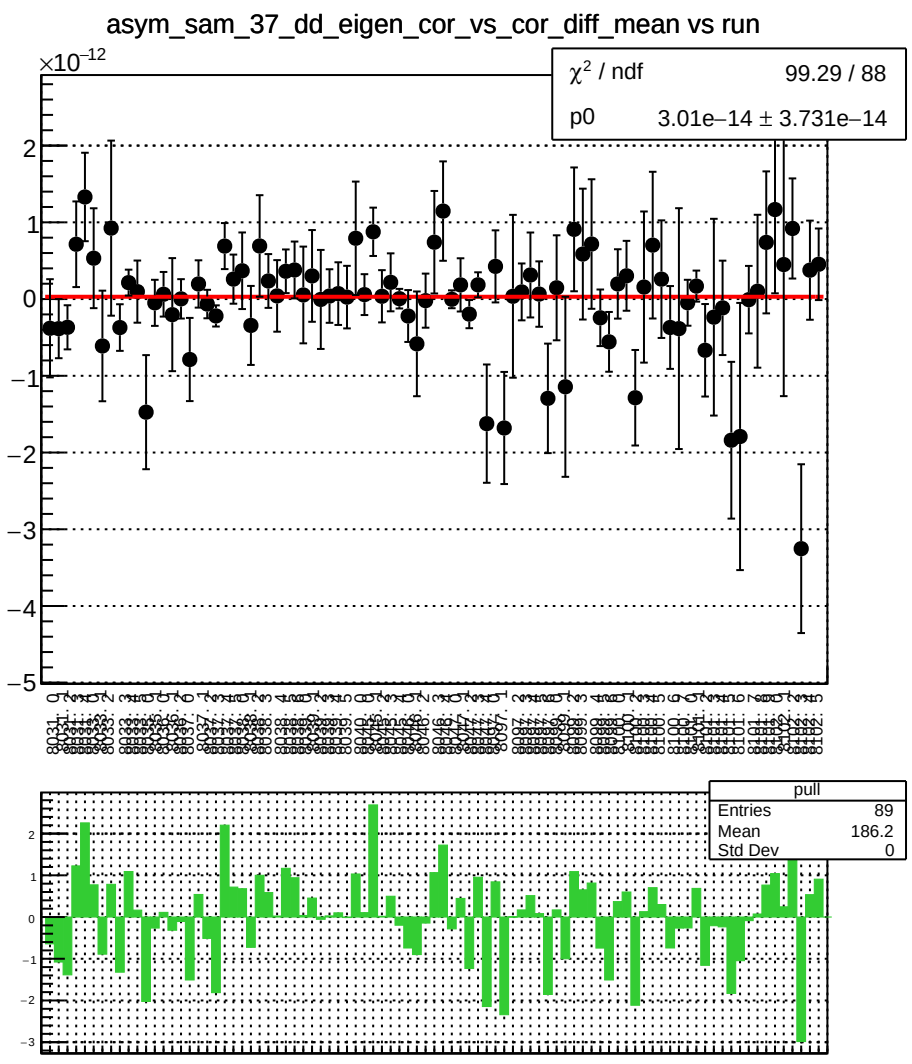

pull1D
Entries 89
Mean 0.03725
Std Dev 1.047

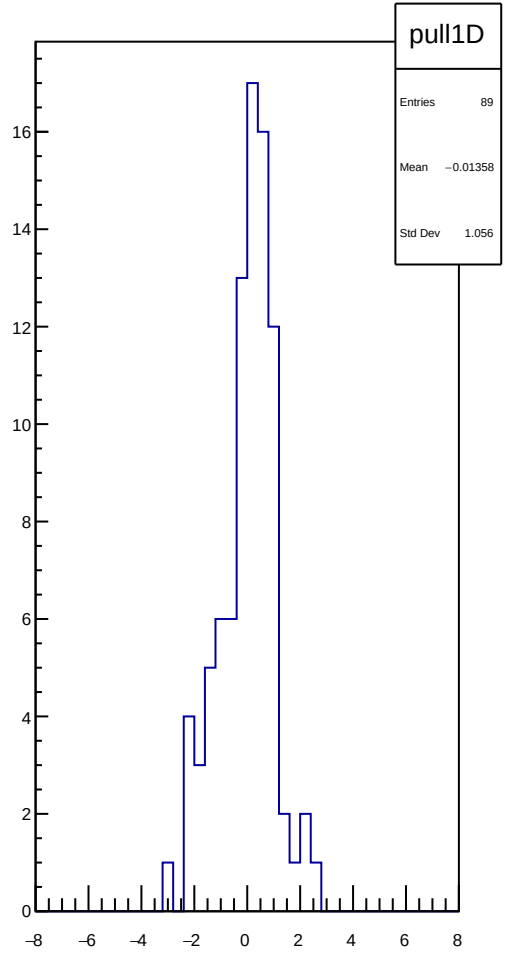

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.58e+05 / 88
p0 27.28 ± 0.02235
100
80
60
40
20

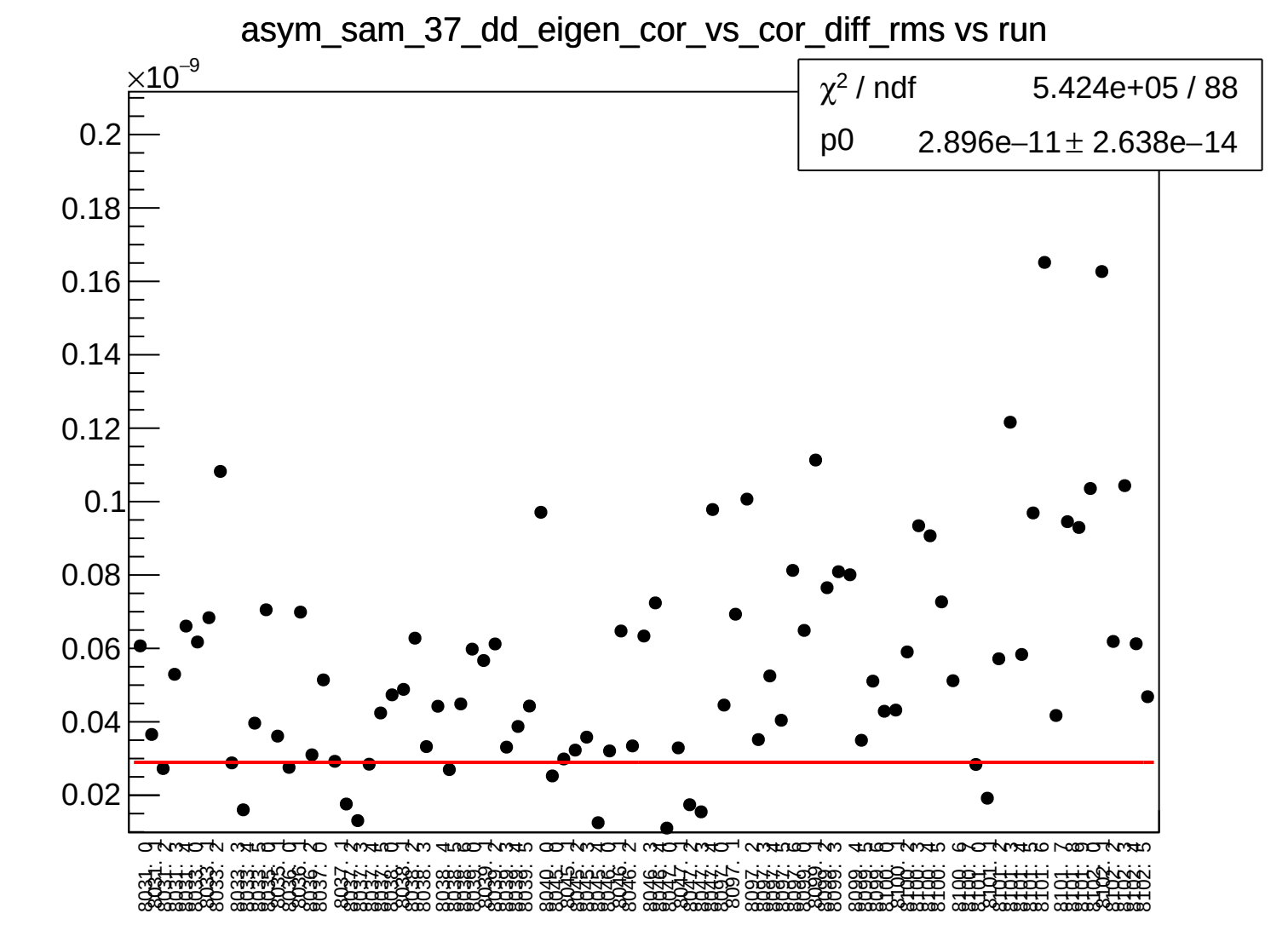

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.67 / 88
p0 −0.03807 ± 0.03161
pull
Entries 89
Mean 27.87
Std Dev 27.85

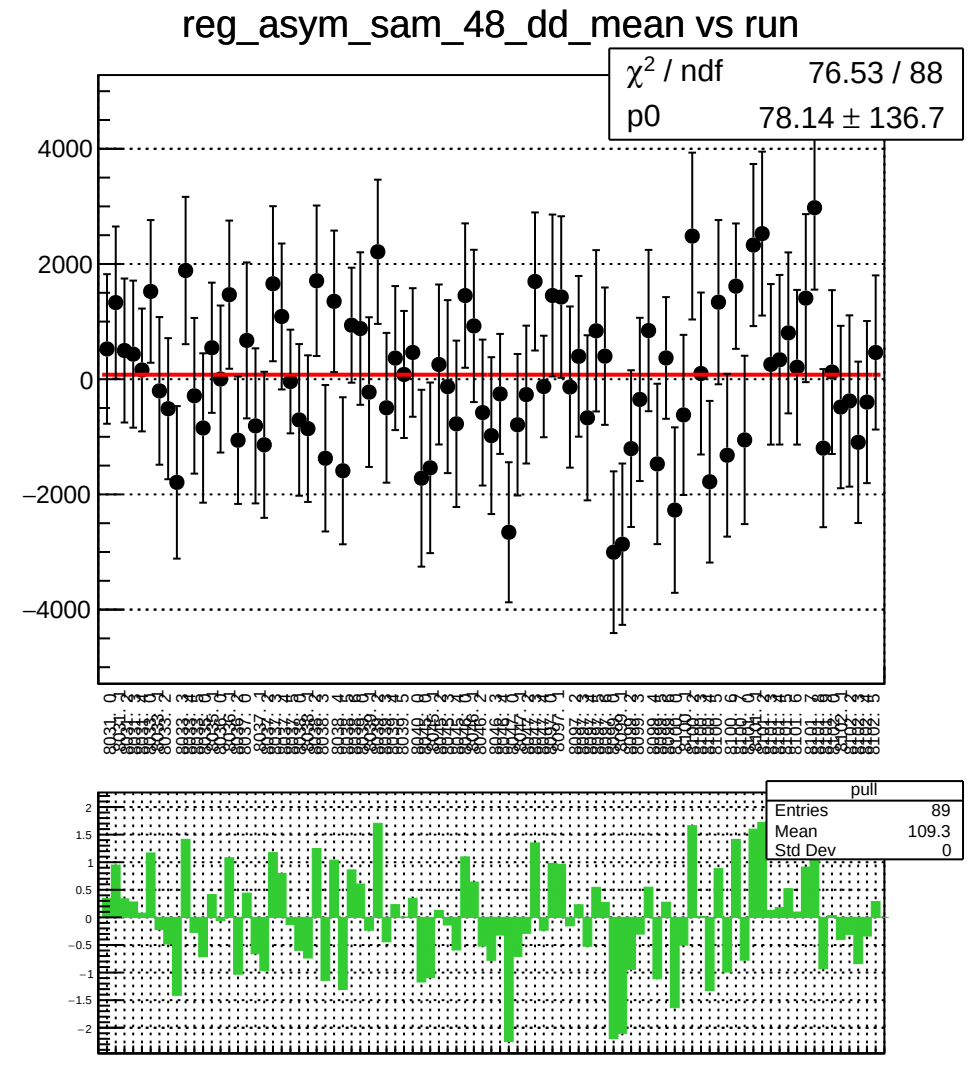

pull1D
Entries 89
Mean 0.03725
Std Dev 1.047

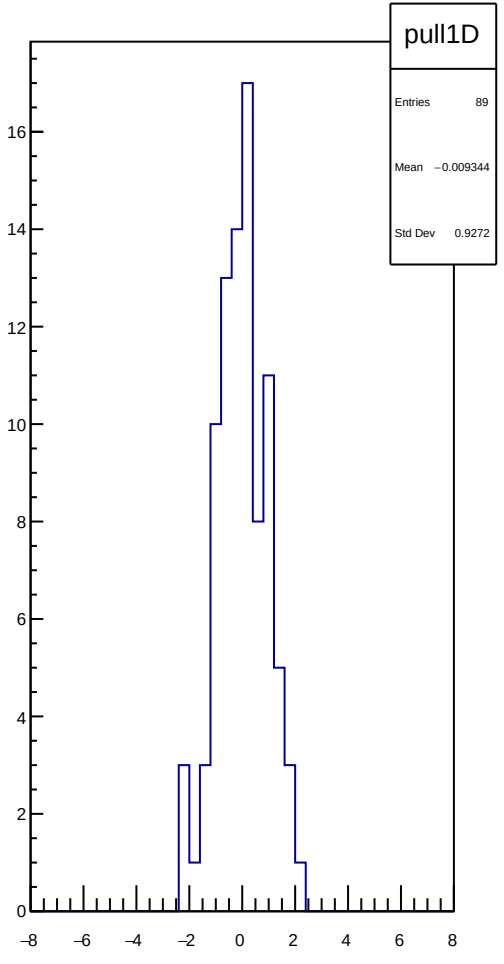

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.58e+05 / 88
p0 27.28 ± 0.02235
100
80
60
40
20

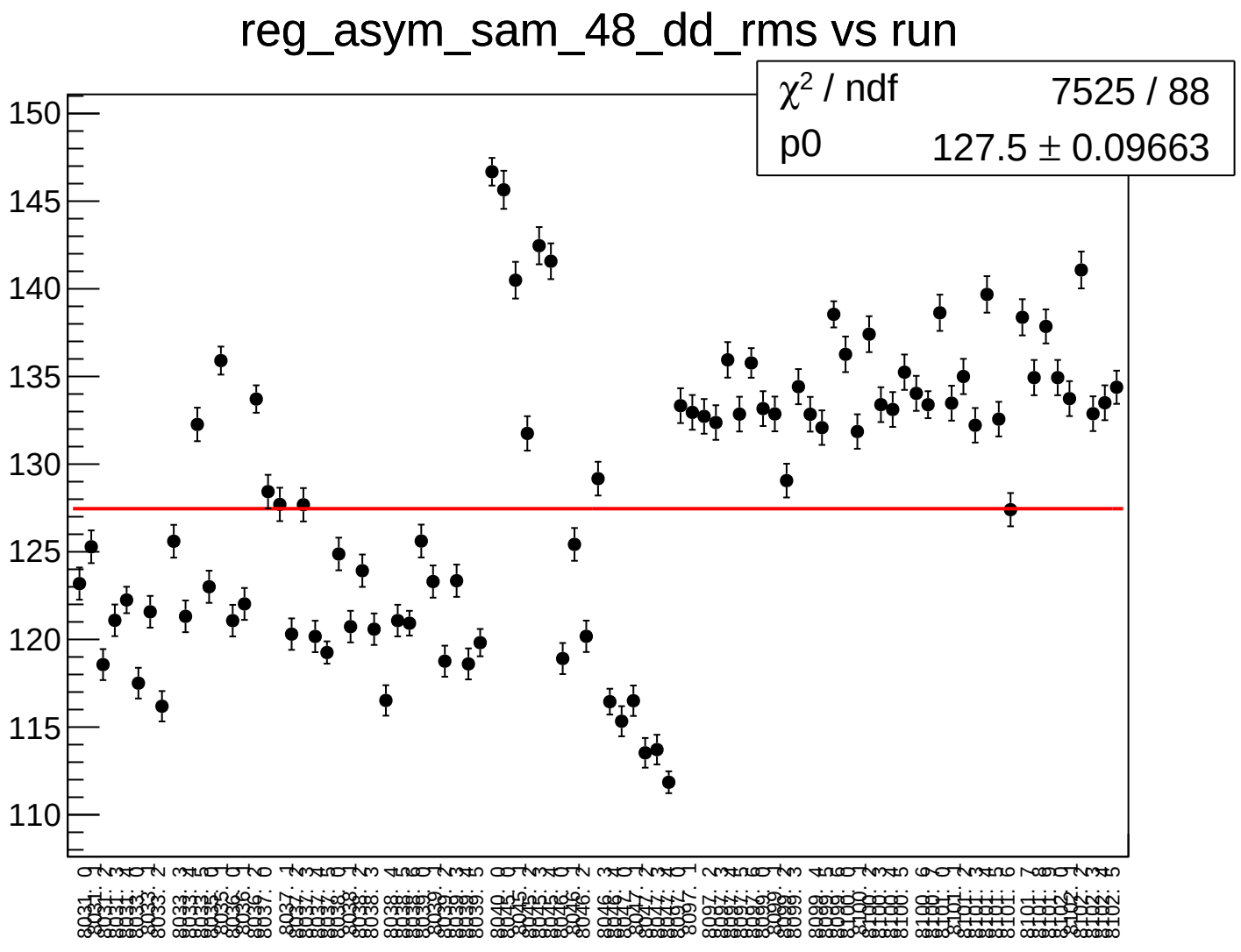

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.29 / 88
p0 3.01e−14 ± 3.731e−14
pull
Entries 89
Mean 186.2
Std Dev 0

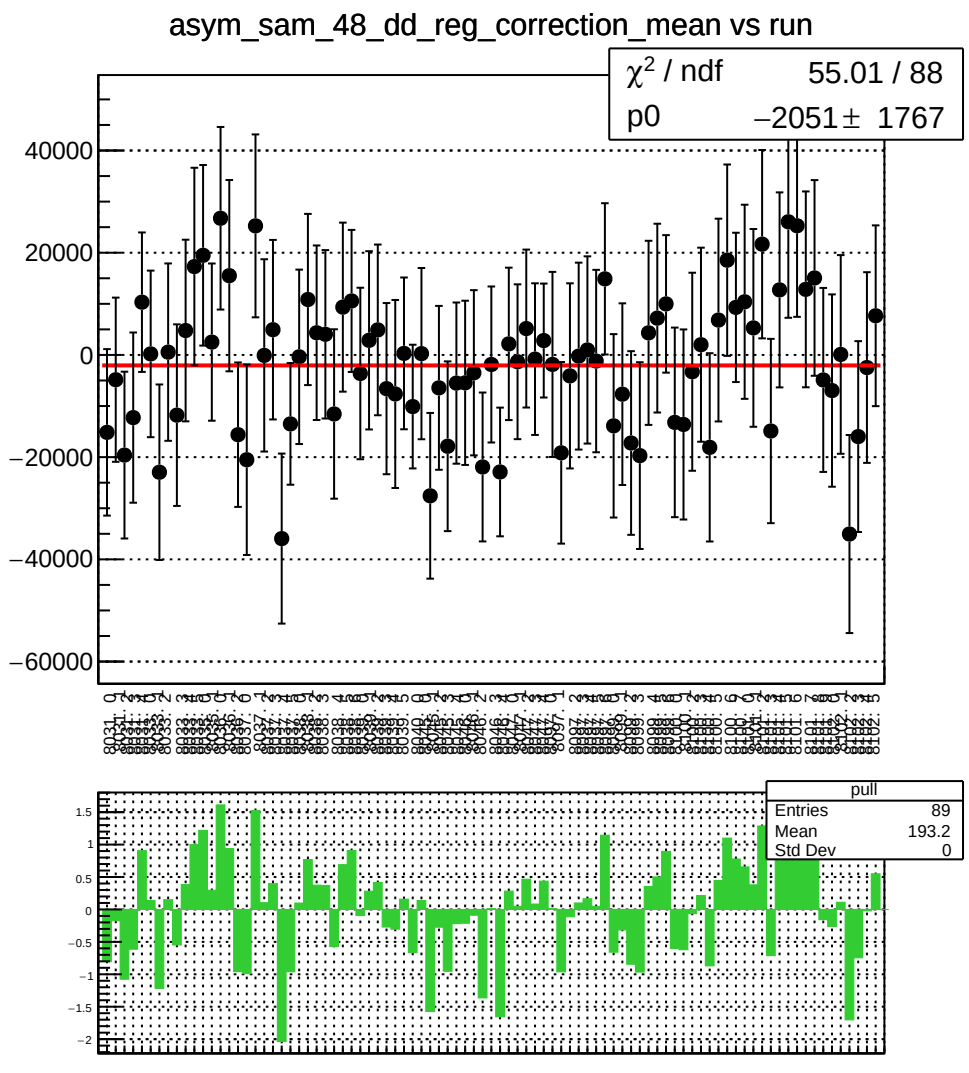

pull1D
Entries 89
Mean −0.01358
Std Dev 1.056

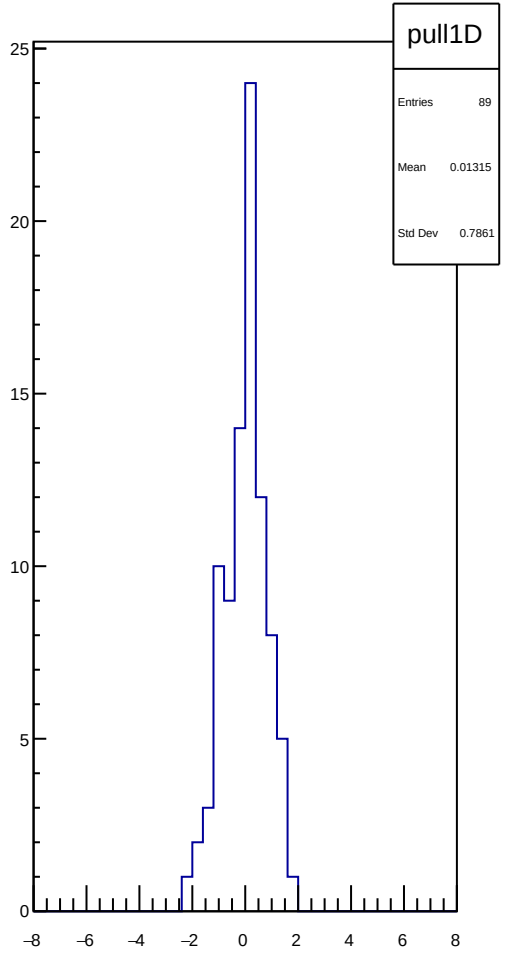

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.424e+05 / 88
p0 2.896e−11 ± 2.638e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

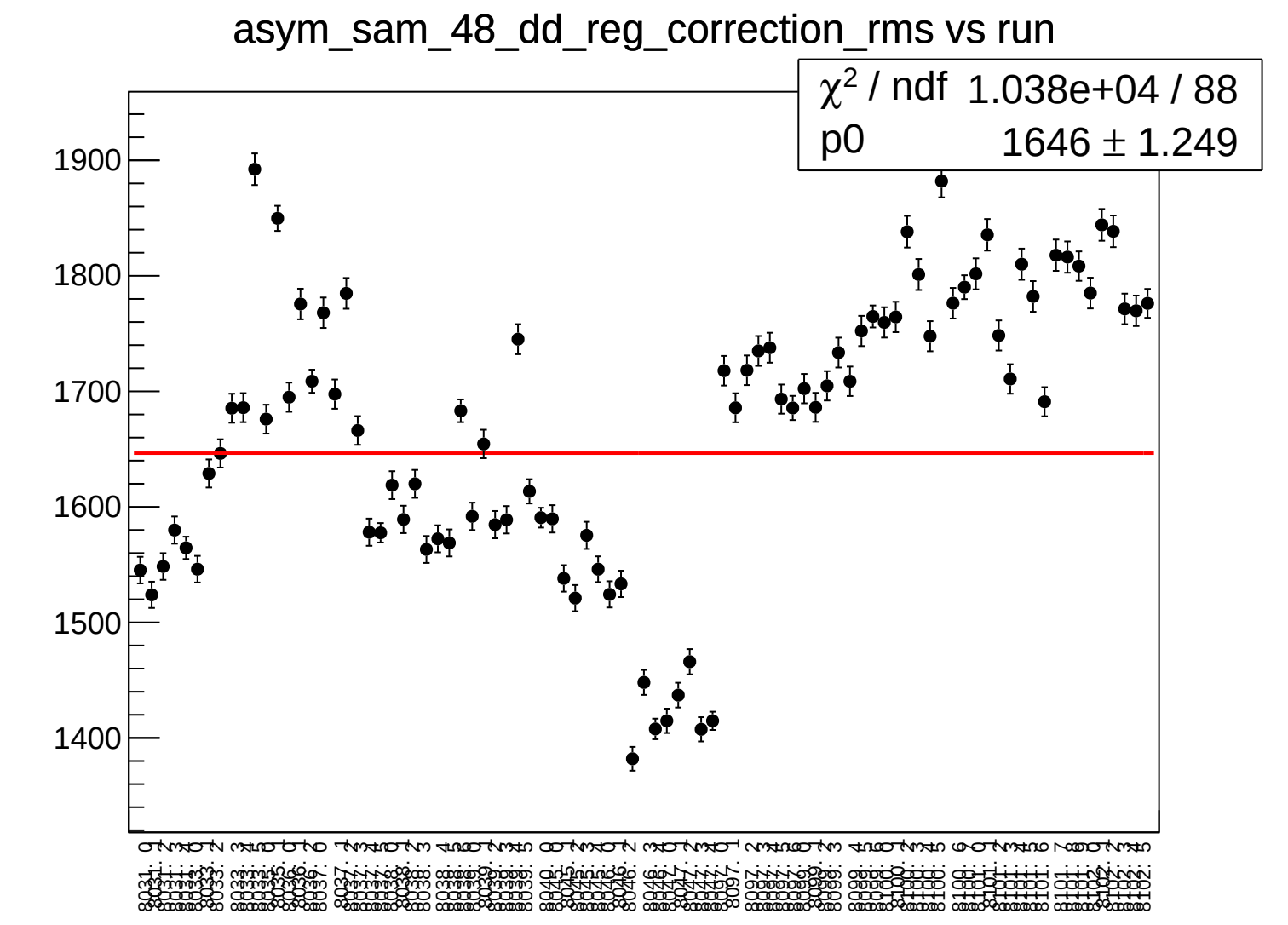

reg_asym_sam_48_dd_mean vs run
χ² / ndf 76.53 / 88
p0 78.14 ± 136.7
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 109.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

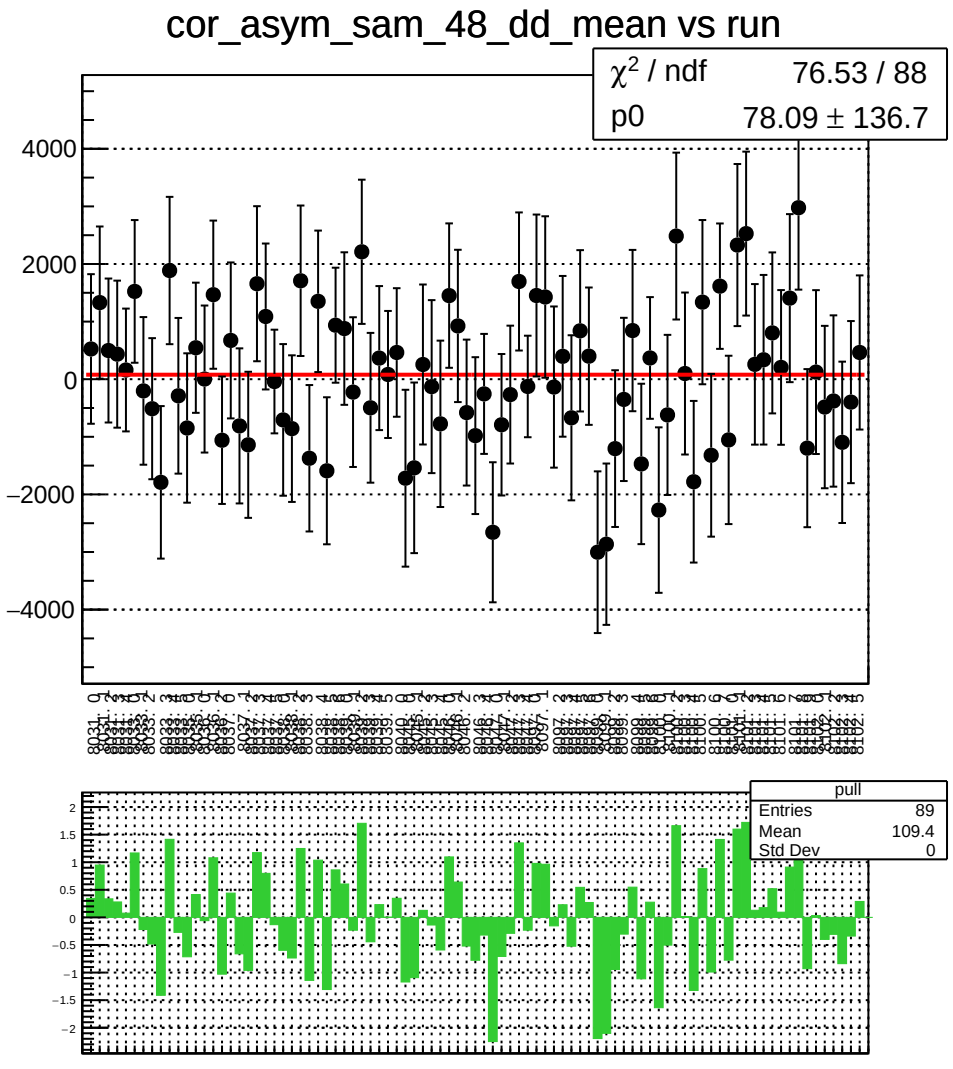

pull1D
Entries 89
Mean −0.009344
Std Dev 0.9272
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

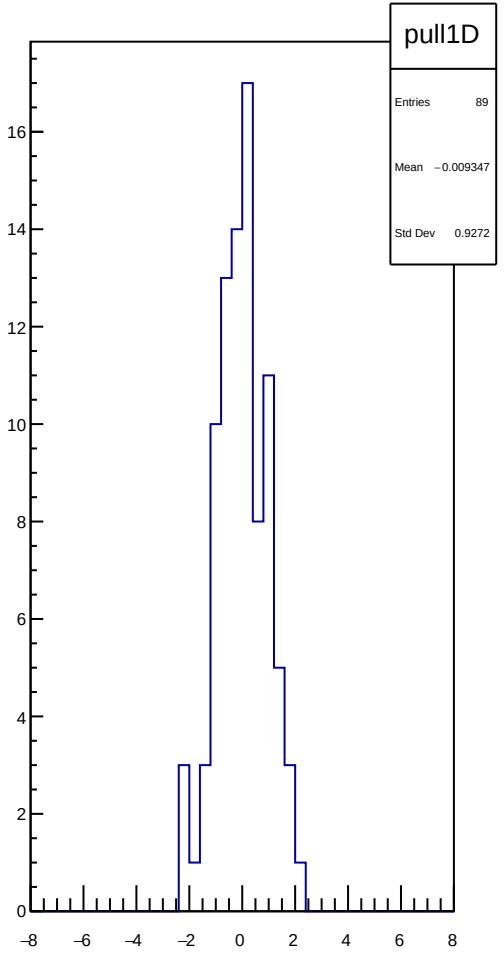

reg_asym_sam_48_dd_rms vs run
χ² / ndf 7525 / 88
p0 127.5 ± 0.09663
150
145
140
135
130
125
120
115
110

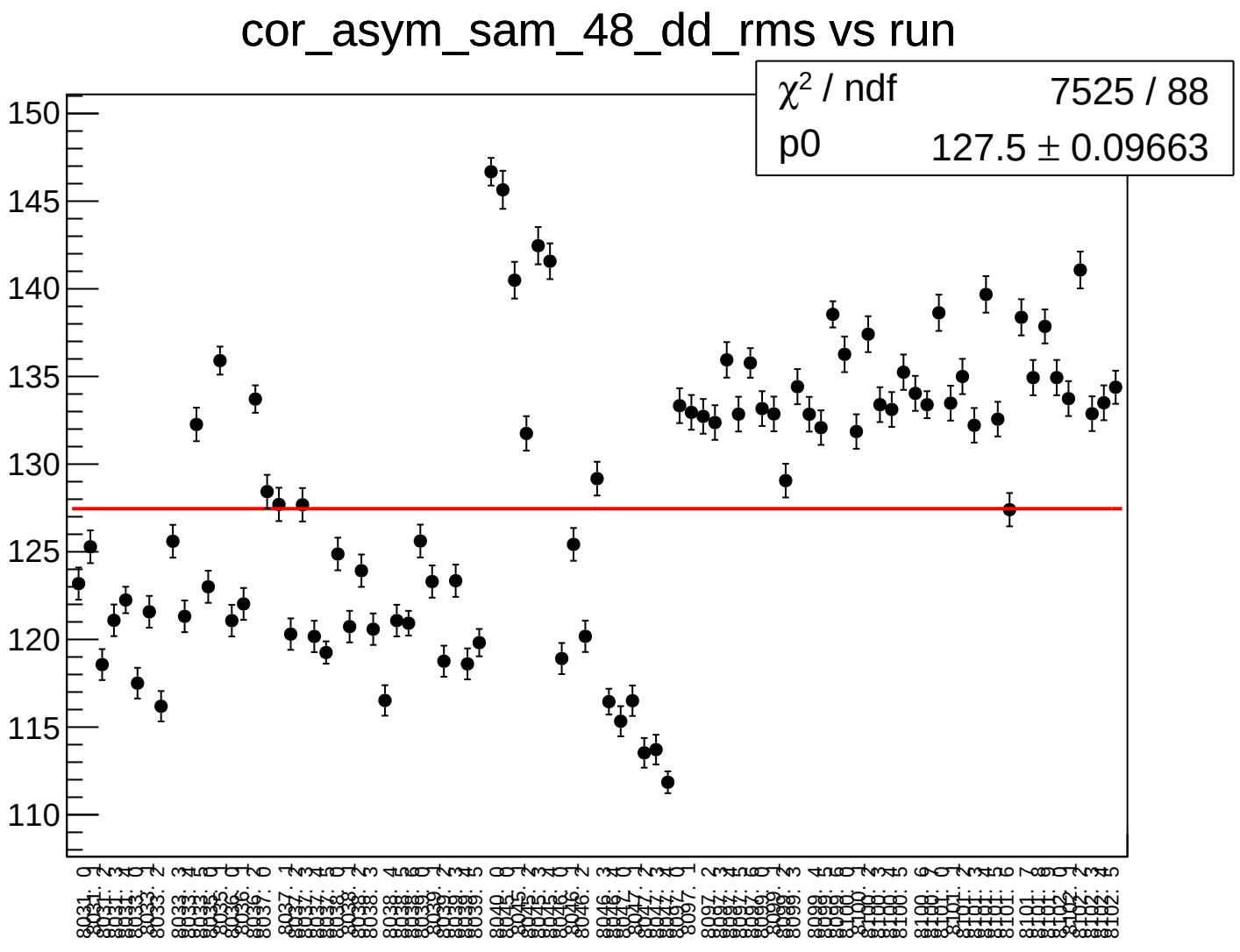

asym_sam_48_dd_reg_correction_mean vs run
χ² / ndf 55.01 / 88
p0 −2051 ± 1767
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 193.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

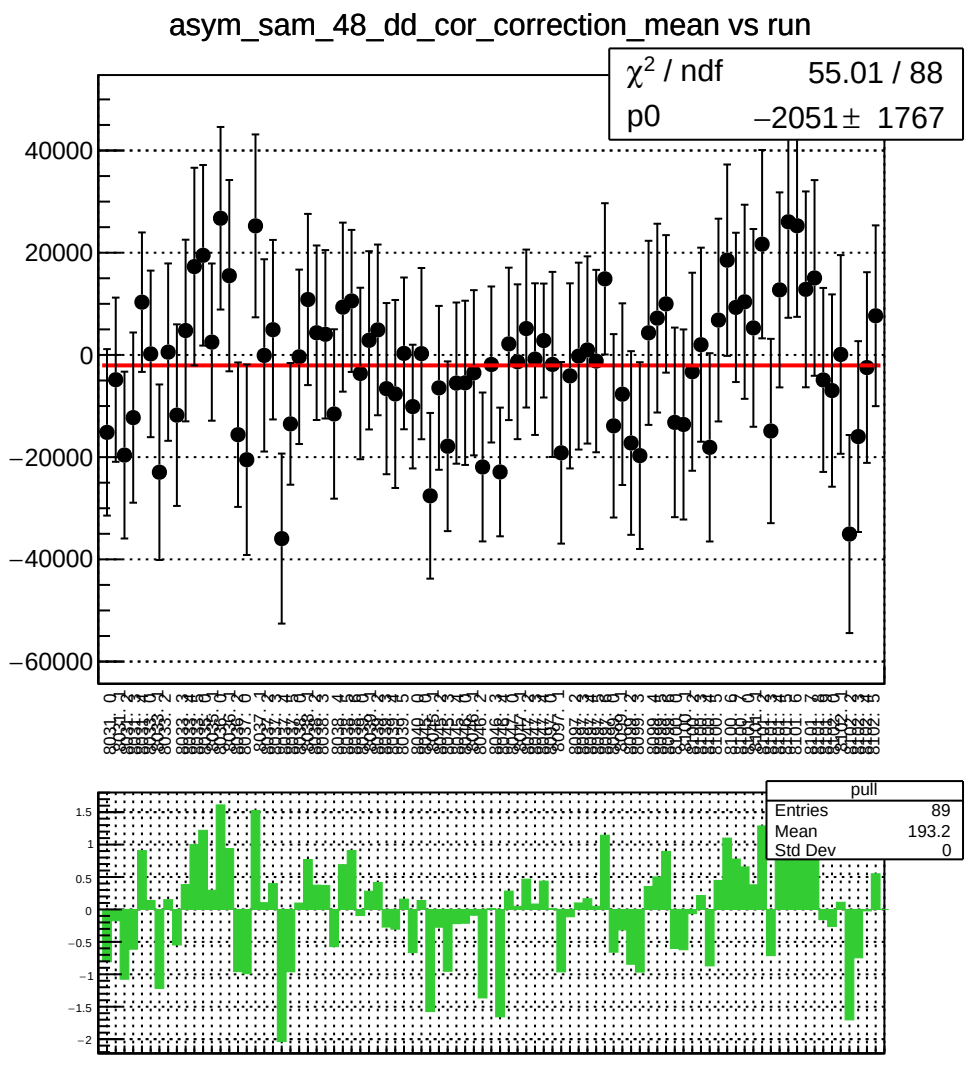

pull1D
Entries 89
Mean 0.01315
Std Dev 0.7861
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

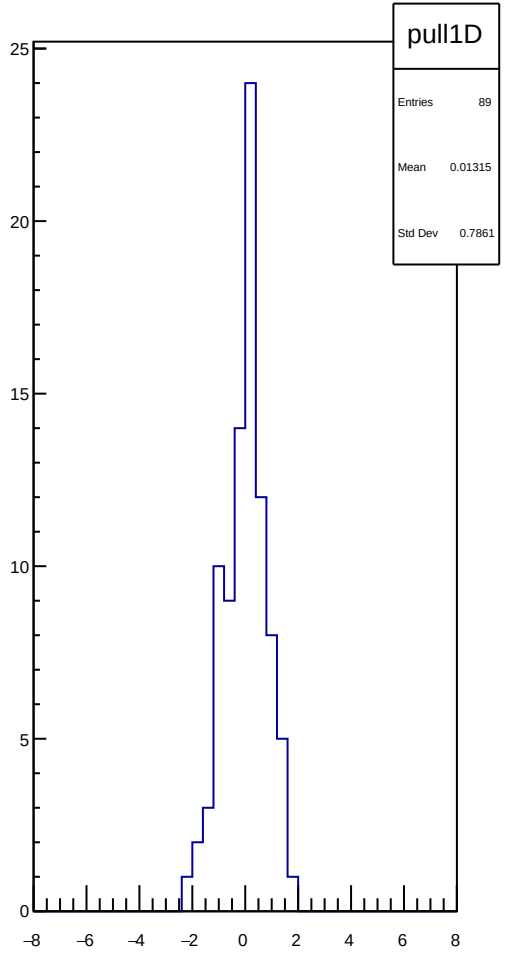

asym_sam_48_dd_reg_correction_rms vs run
χ² / ndf 1.038e+04 / 88
p0 1646 ± 1.249
1900
1800
1700
1600
1500
1400

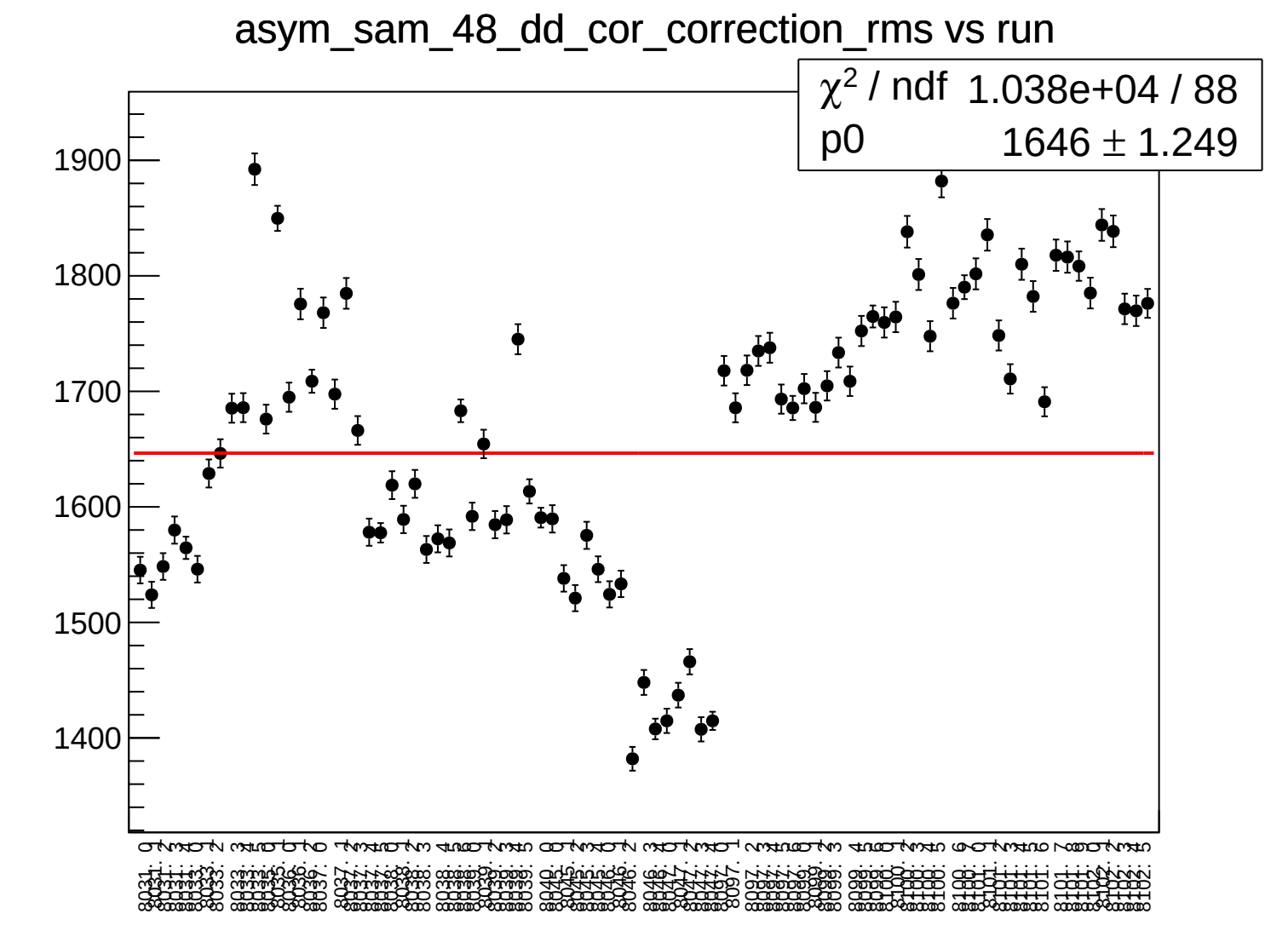

cor_asym_sam_48_dd_mean vs run
χ² / ndf 76.53 / 88
p0 78.09 ± 136.7
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 109.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

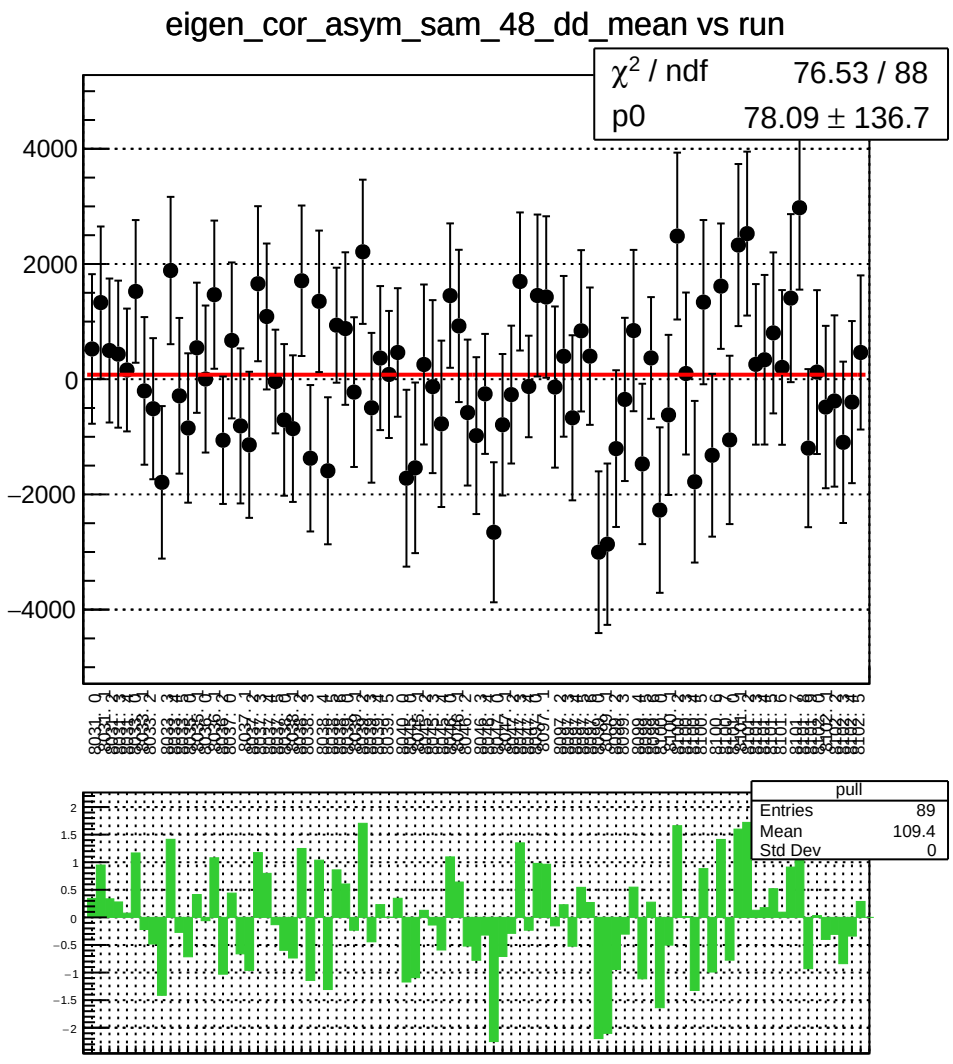

pull1D
Entries 89
Mean −0.009347
Std Dev 0.9272
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

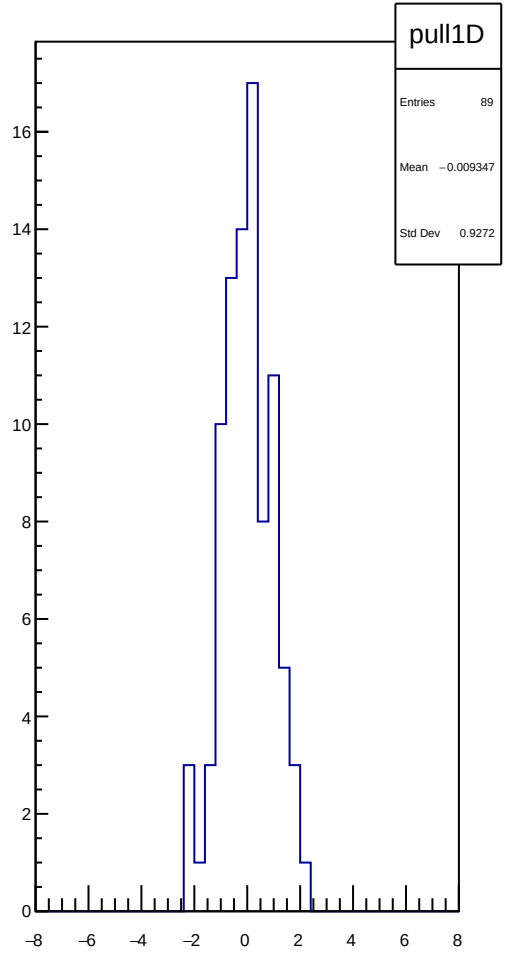

cor_asym_sam_48_dd_rms vs run
χ² / ndf 7525 / 88
p0 127.5 ± 0.09663
150
145
140
135
130
125
120
115
110

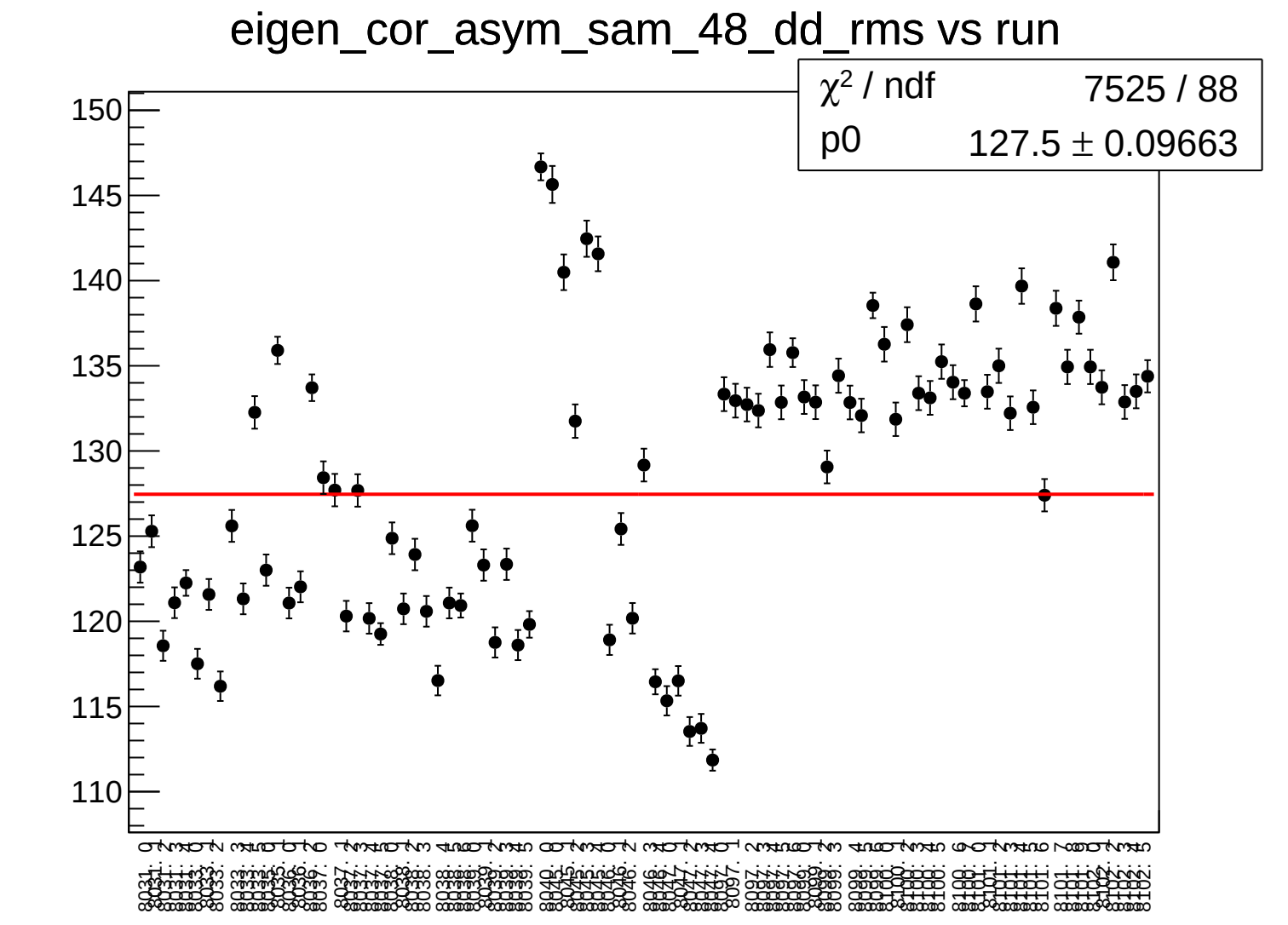

asym_sam_48_dd_cor_correction_mean vs run
χ² / ndf 55.01 / 88
p0 −2051 ± 1767
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 193.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

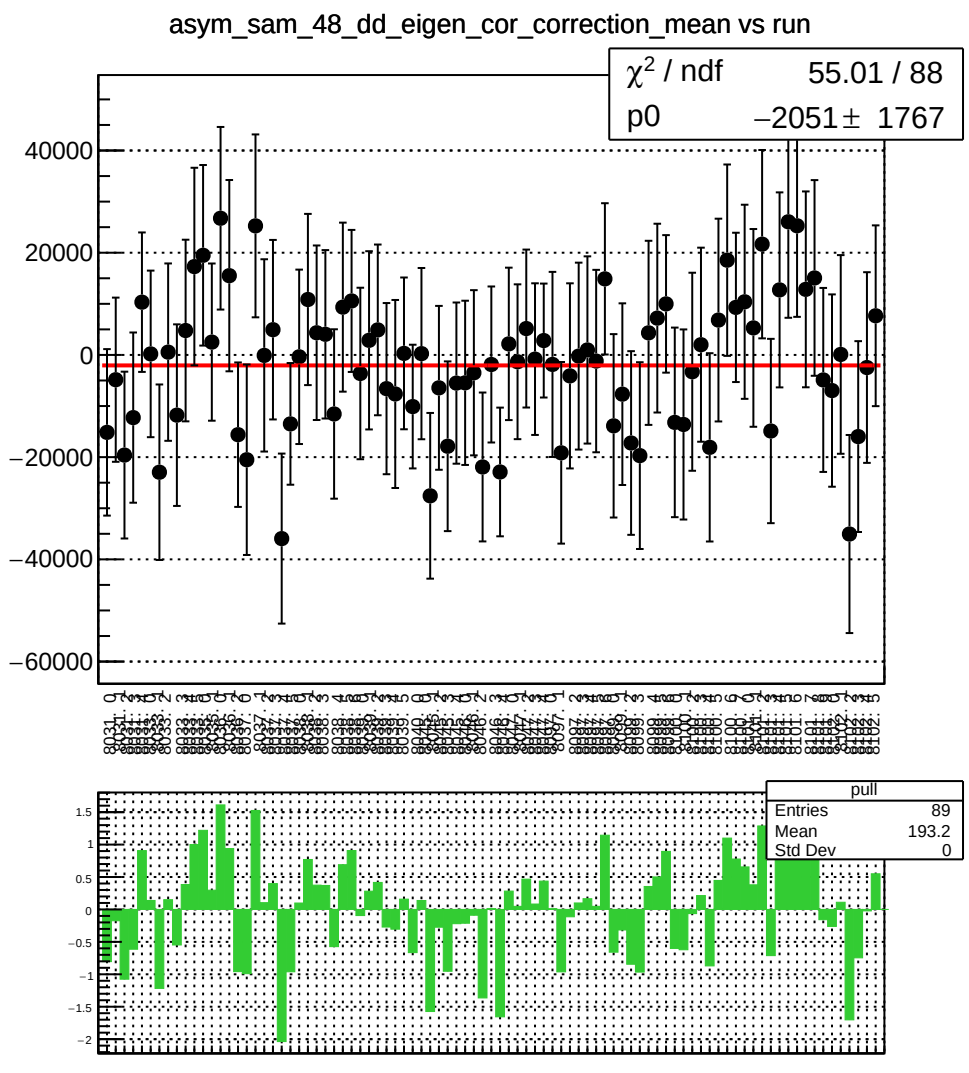

pull1D
Entries 89
Mean 0.01315
Std Dev 0.7861
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

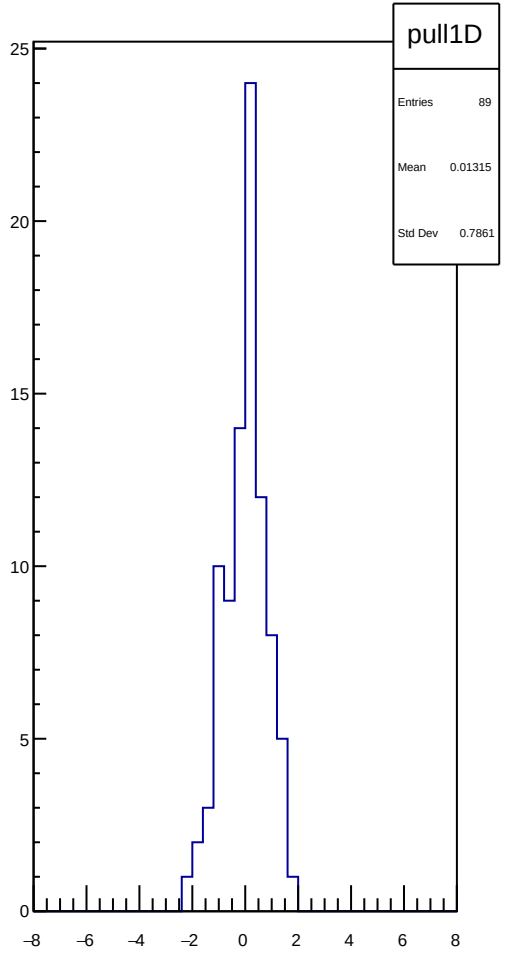

asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 1.038e+04 / 88
p0 1646 ± 1.249
1900
1800
1700
1600
1500
1400

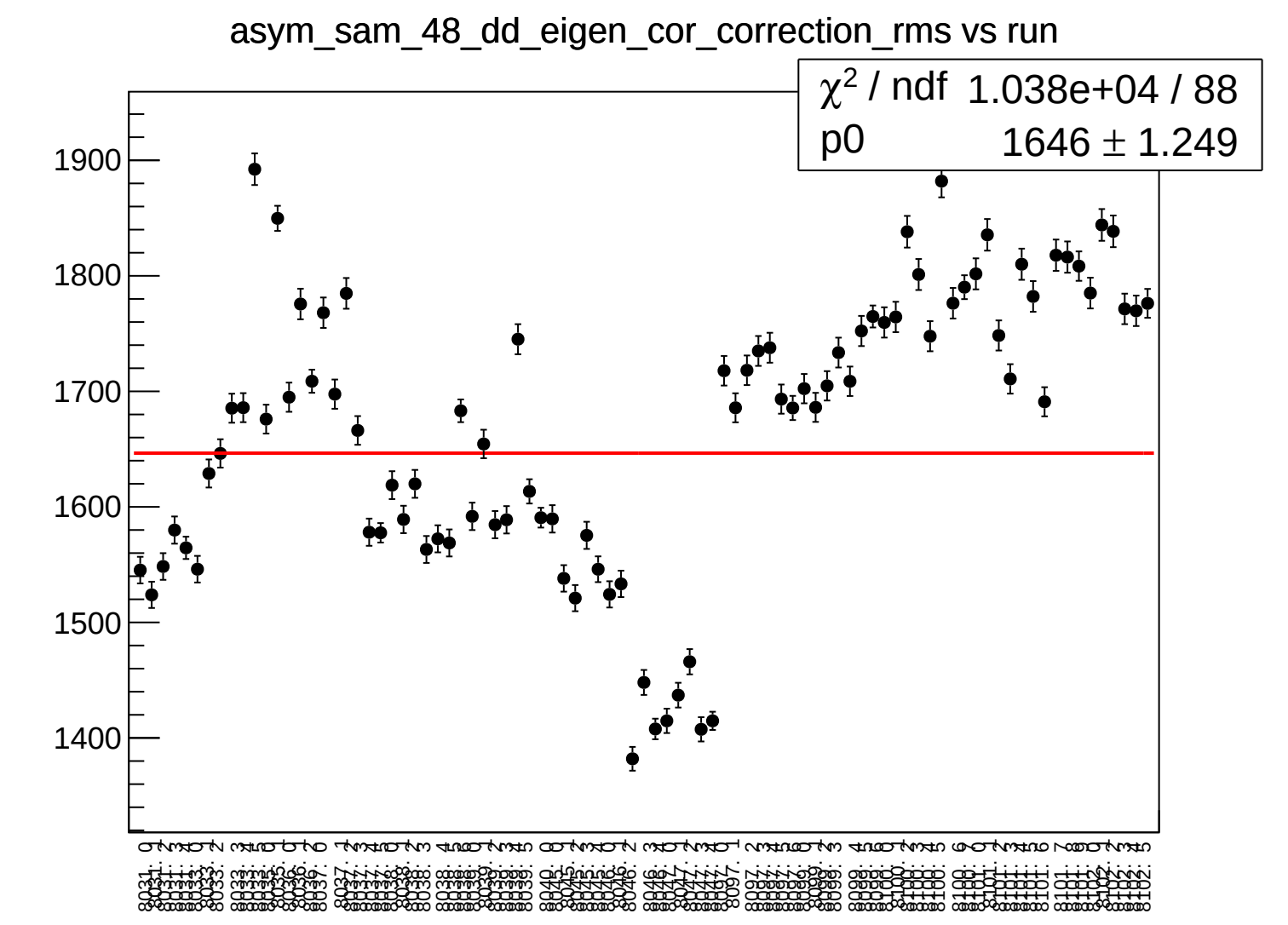

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 76.53 / 88
p0 78.09 ± 136.7
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 109.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

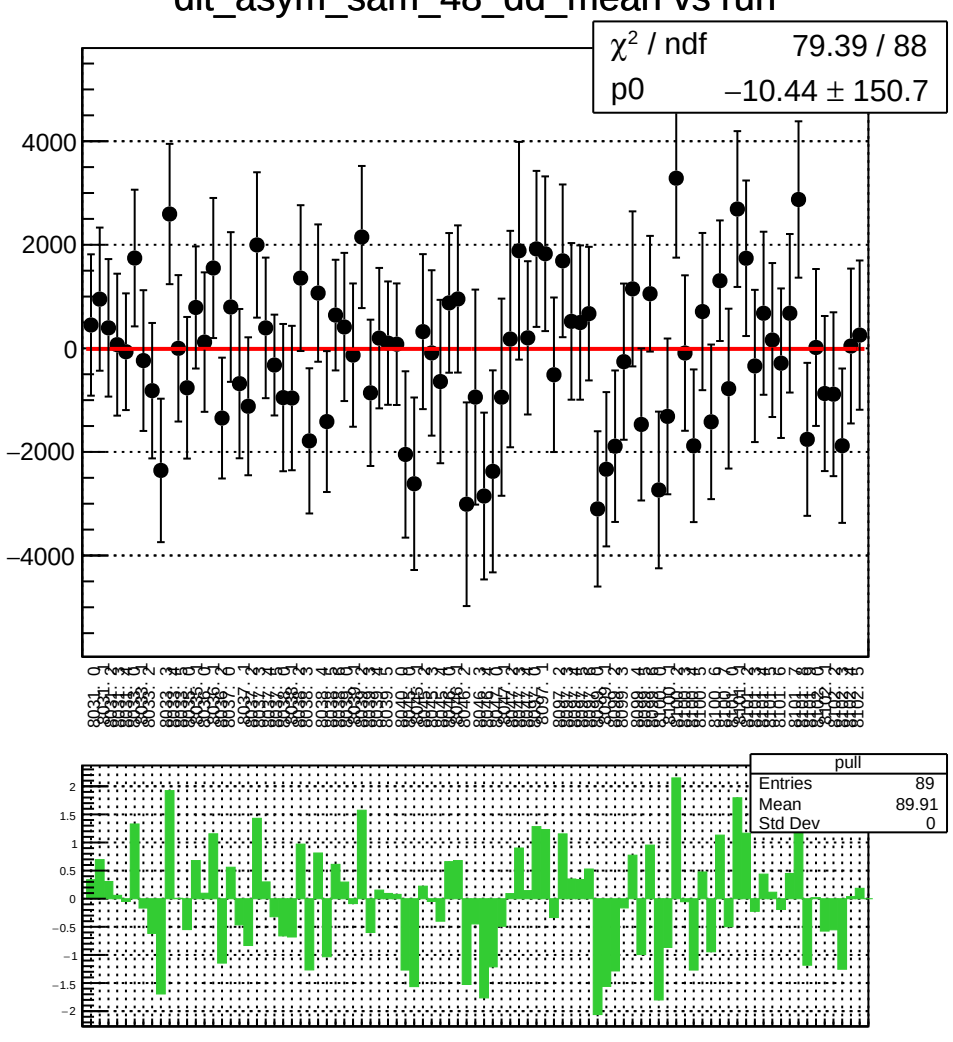

pull1D
Entries 89
Mean −0.009347
Std Dev 0.9272
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

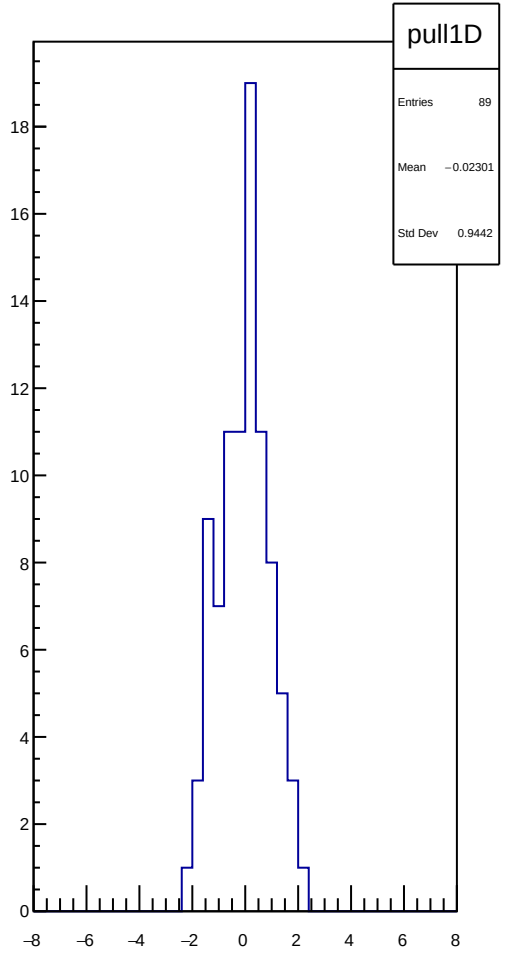

eigen_cor_asym_sam_48_dd_rms vs run
χ² / ndf 7525 / 88
p0 127.5 ± 0.09663
150
145
140
135
130
125
120
115
110

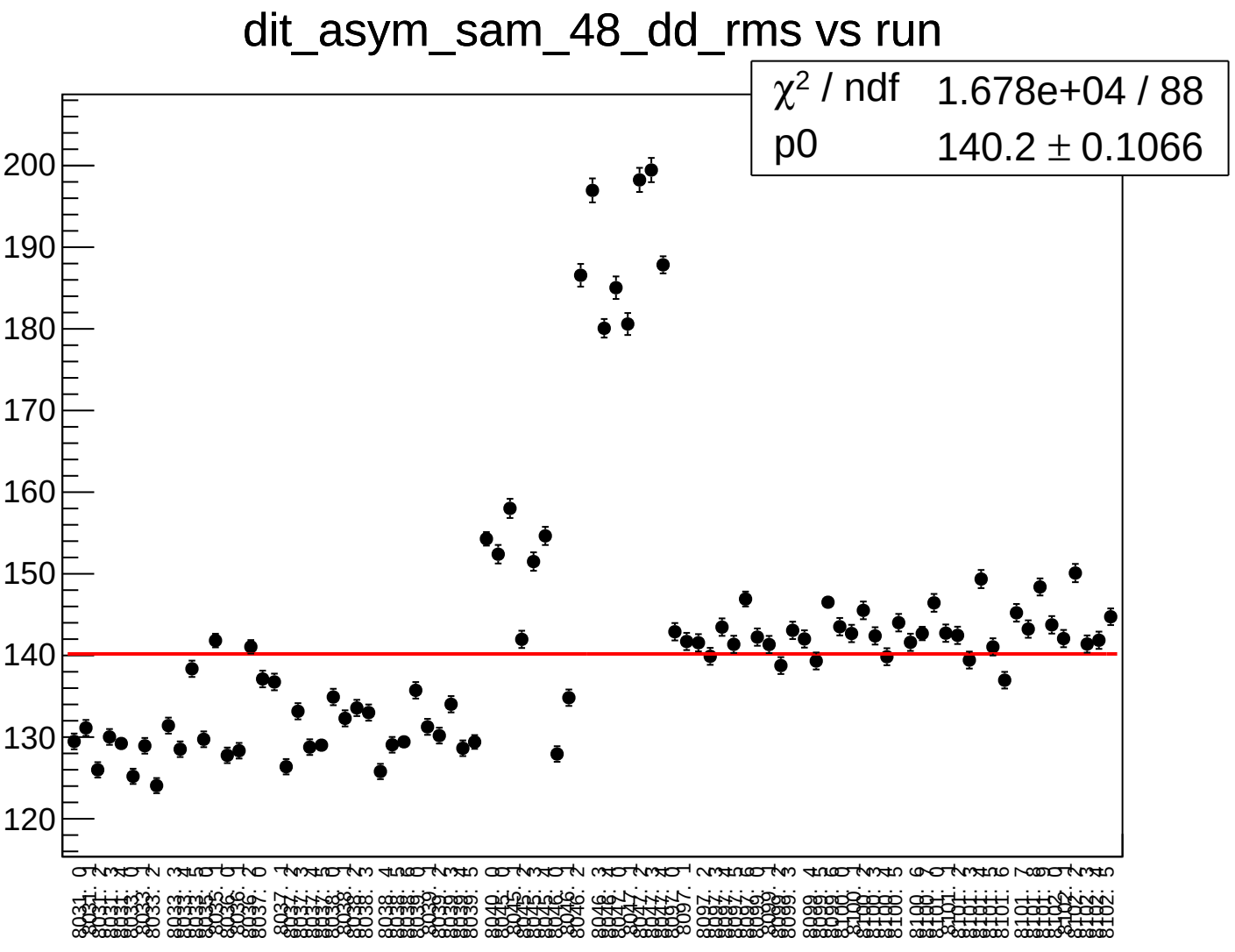

asym_sam_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 55.01 / 88
p0 −2051 ± 1767
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 193.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

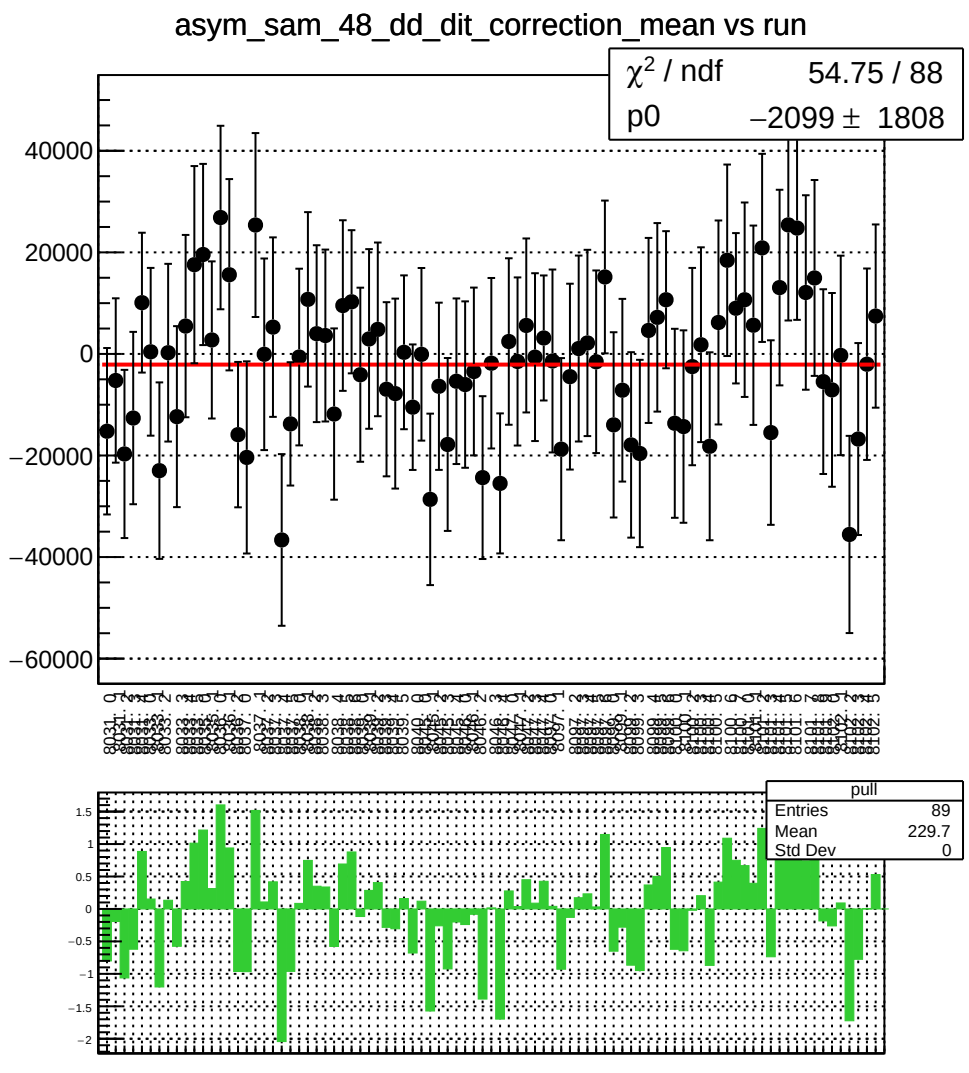

pull1D
Entries 89
Mean 0.01315
Std Dev 0.7861
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

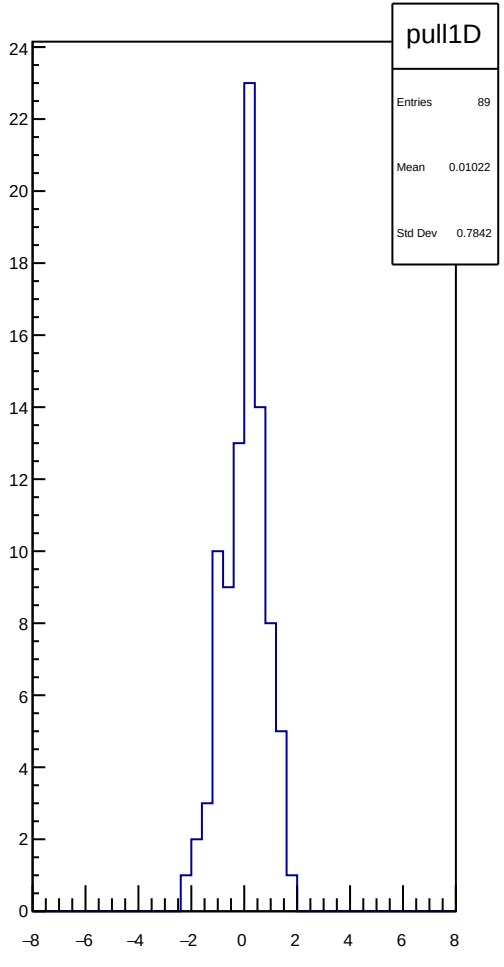

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.038e+04 / 88
p0 1646 ± 1.249
1900
1800
1700
1600
1500
1400

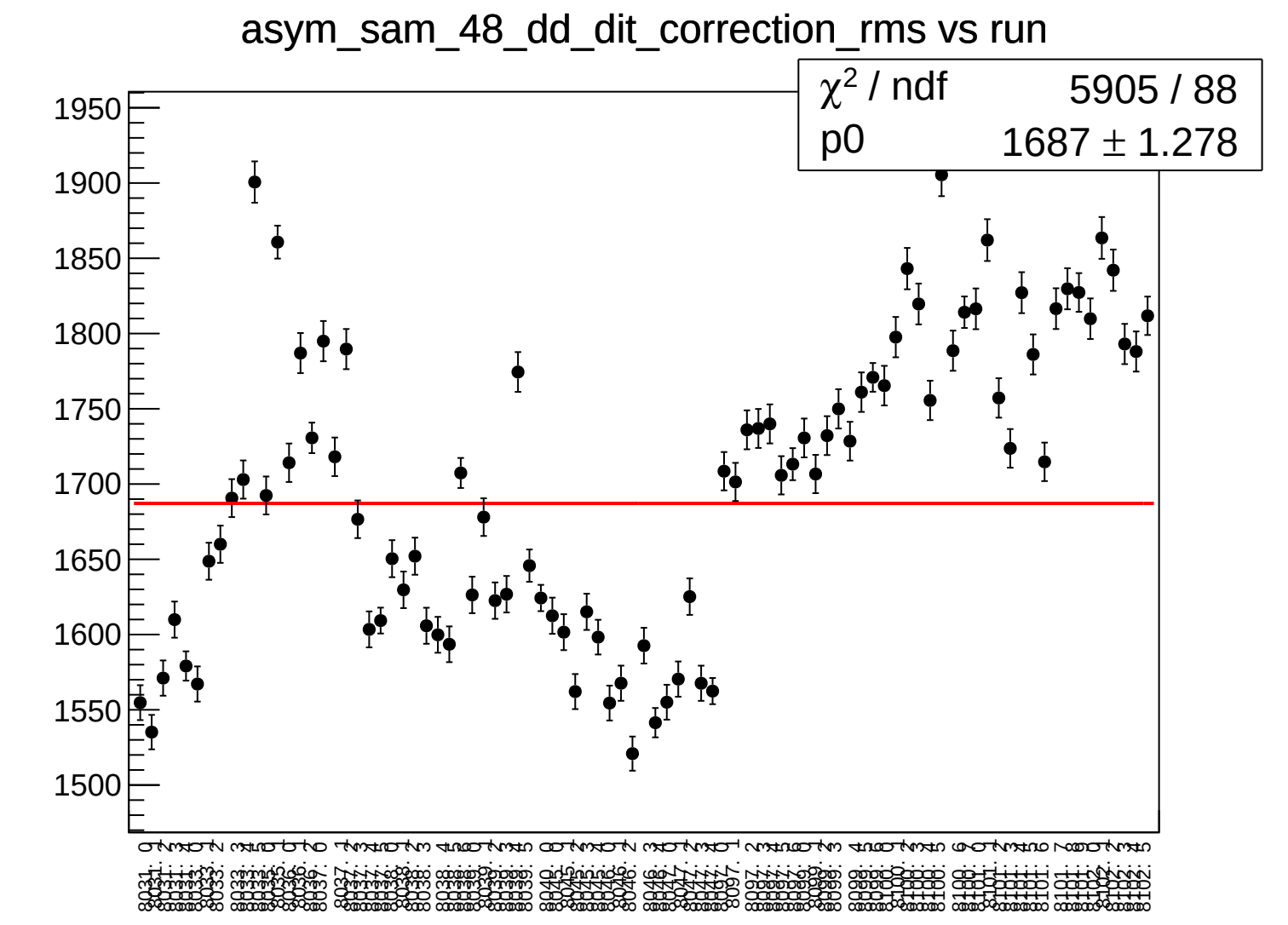

dit_asym_sam_48_dd_mean vs run
χ² / ndf 79.39 / 88
p0 −10.44 ± 150.7
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 89.91
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

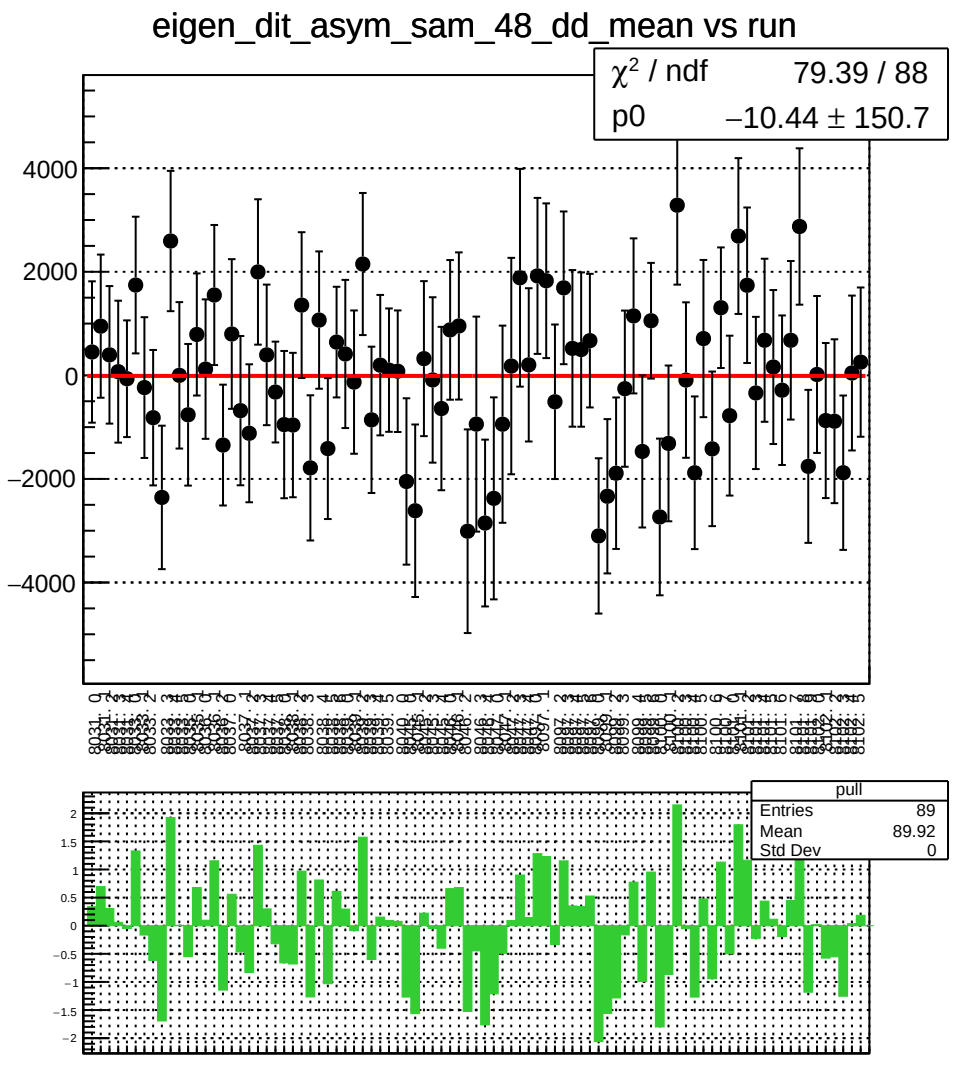

pull1D
Entries 89
Mean −0.02301
Std Dev 0.9442
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

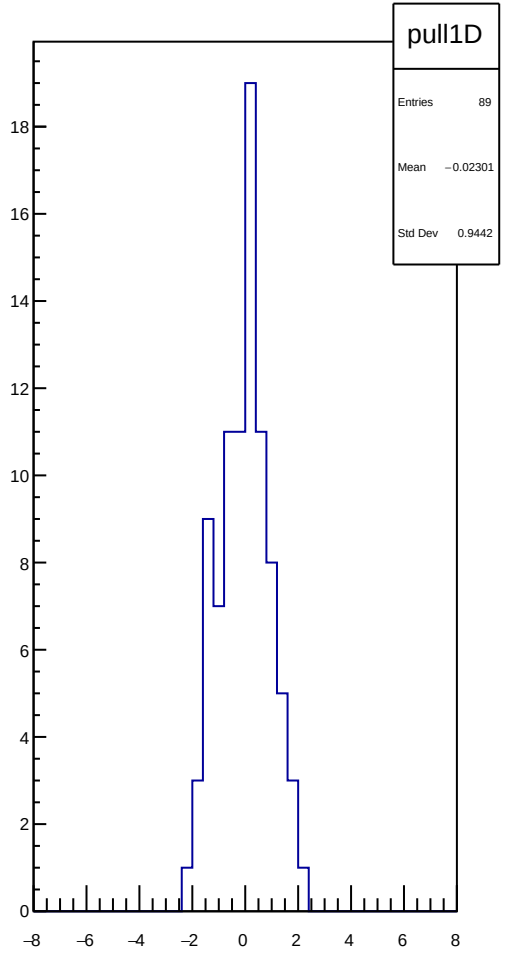

dit_asym_sam_48_dd_rms vs run
χ² / ndf 1.678e+04 / 88
p0 140.2 ± 0.1066
200
190
180
170
160
150
140
130
120

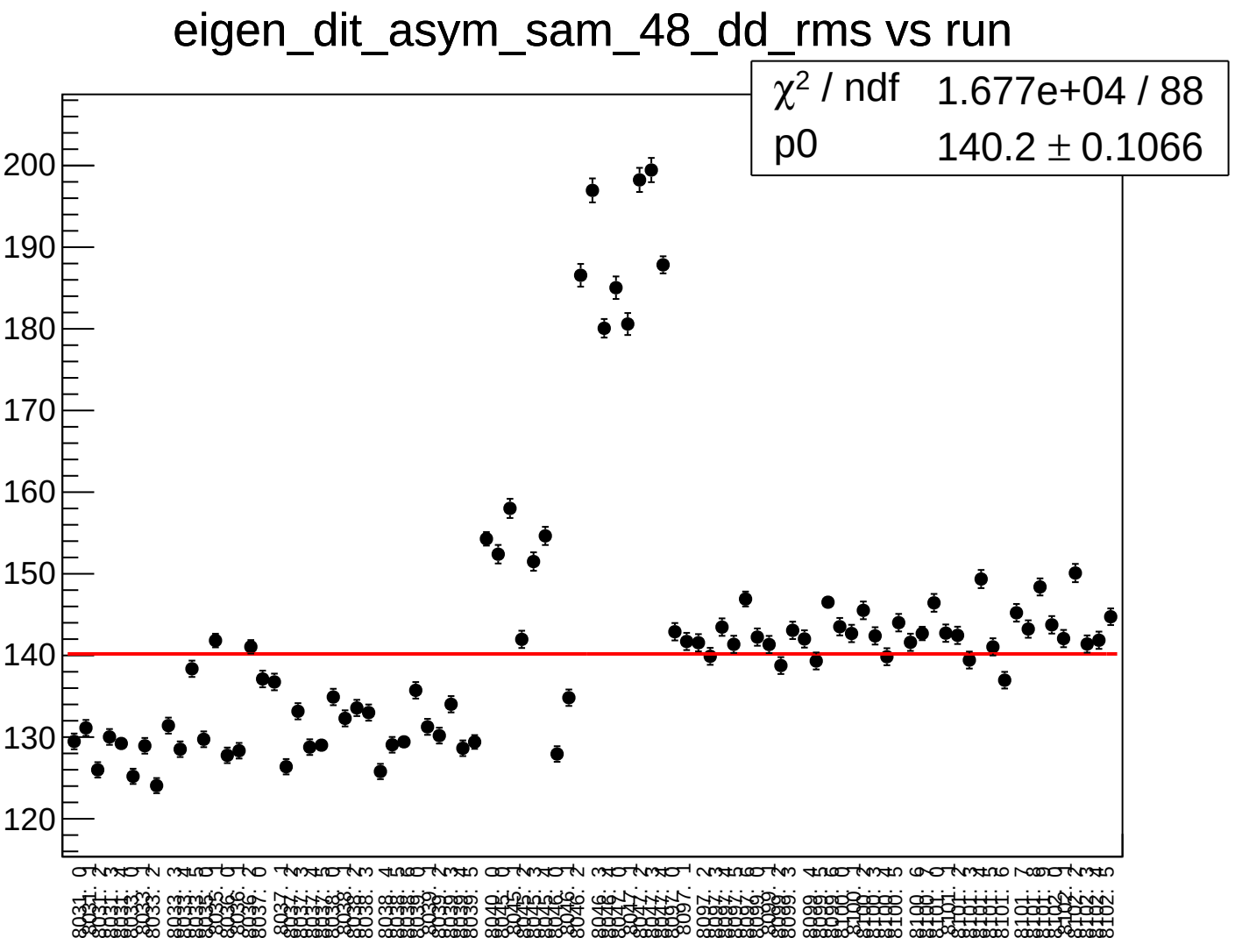

asym_sam_48_dd_dit_correction_mean vs run
χ² / ndf 54.75 / 88
p0 −2099 ± 1808
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 229.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

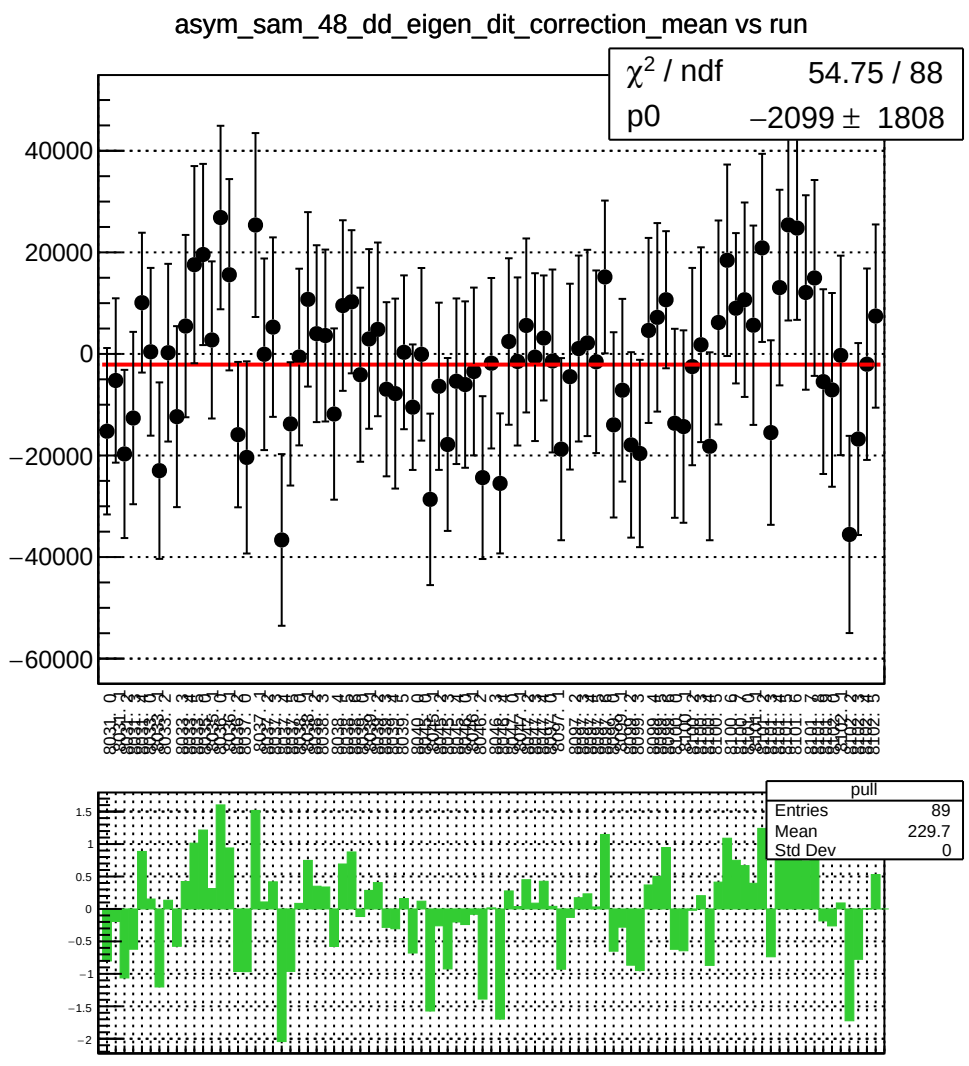

pull1D
Entries 89
Mean 0.01022
Std Dev 0.7842
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

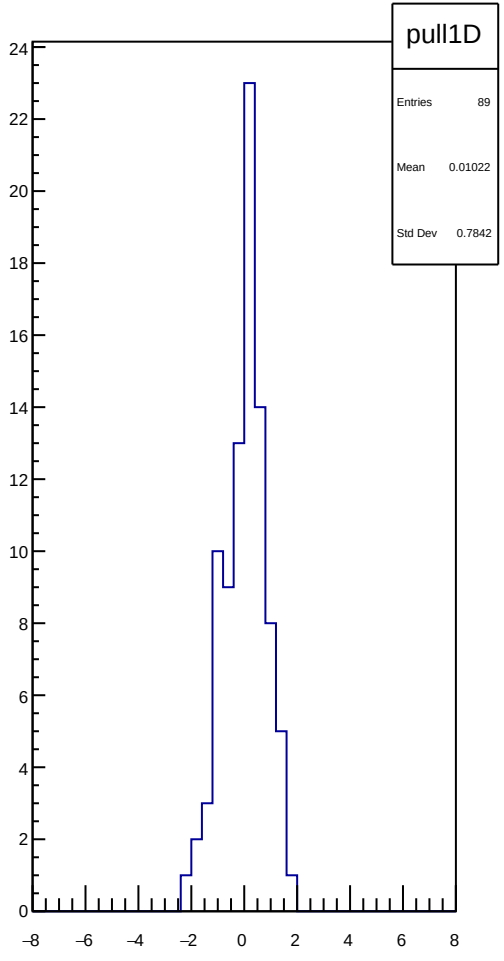

asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 5905 / 88
p0 1687 ± 1.278
1950
1900
1850
1800
1750
1700
1650
1600
1550
1500

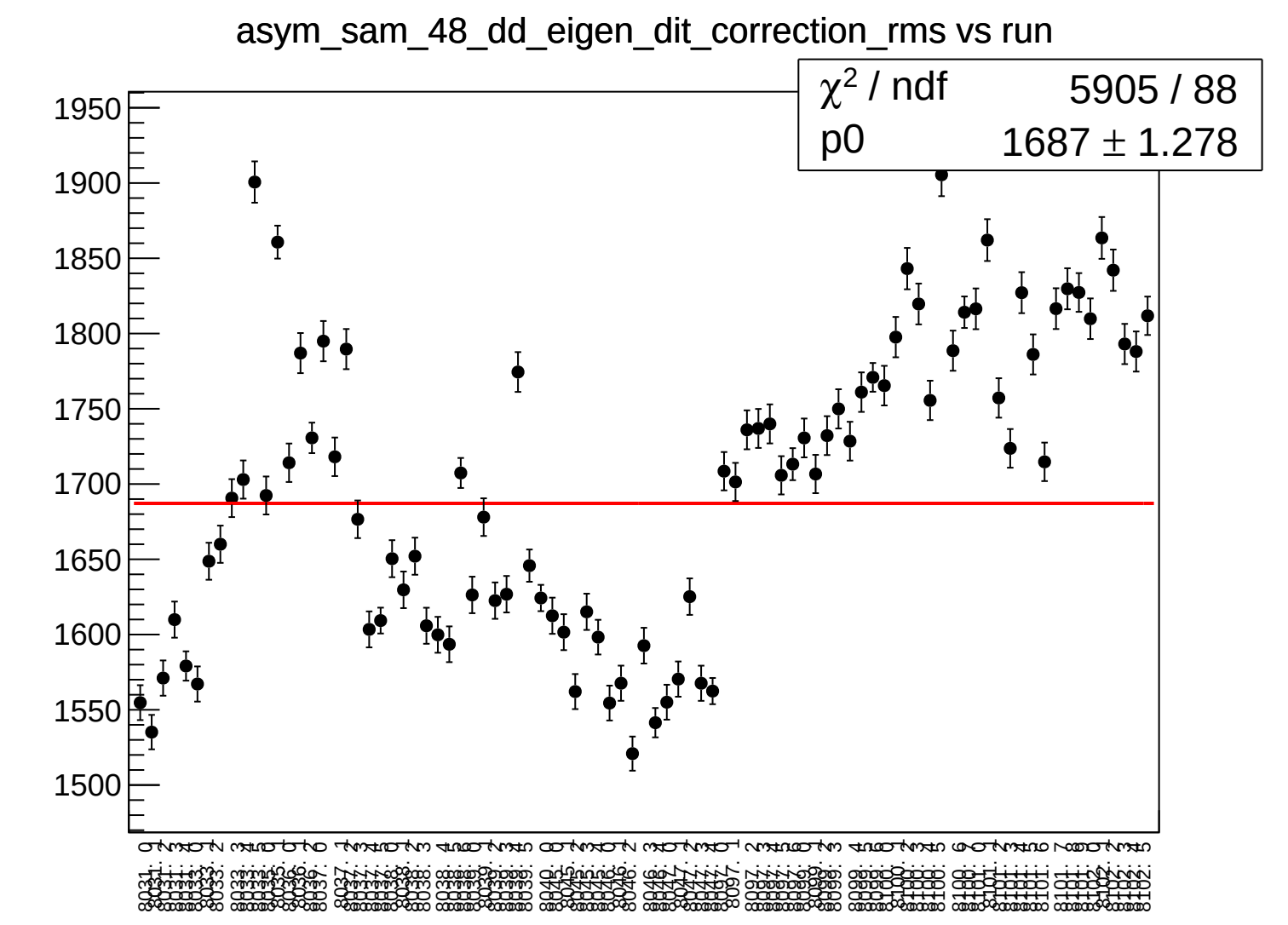

eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 79.39 / 88
p0 −10.44 ± 150.7
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 89.92
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

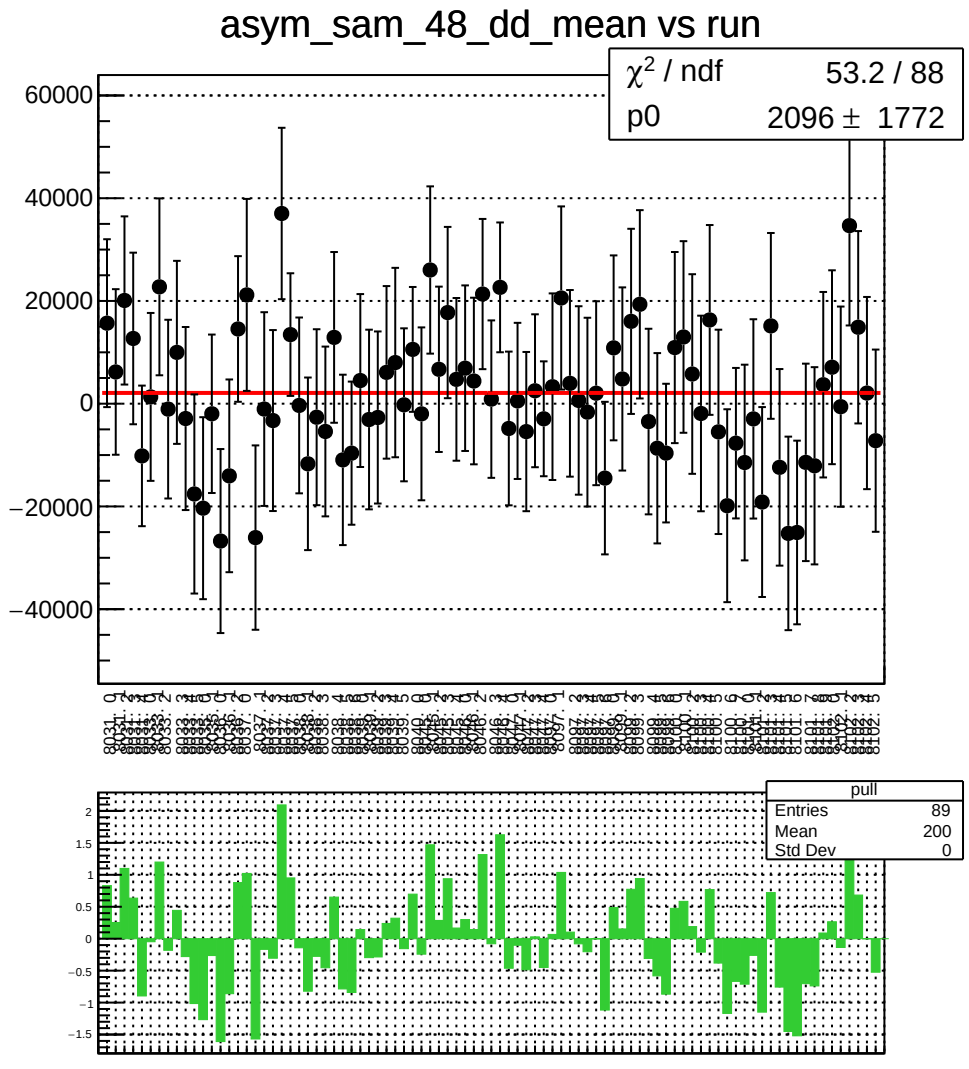

pull1D
Entries 89
Mean −0.02301
Std Dev 0.9442
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

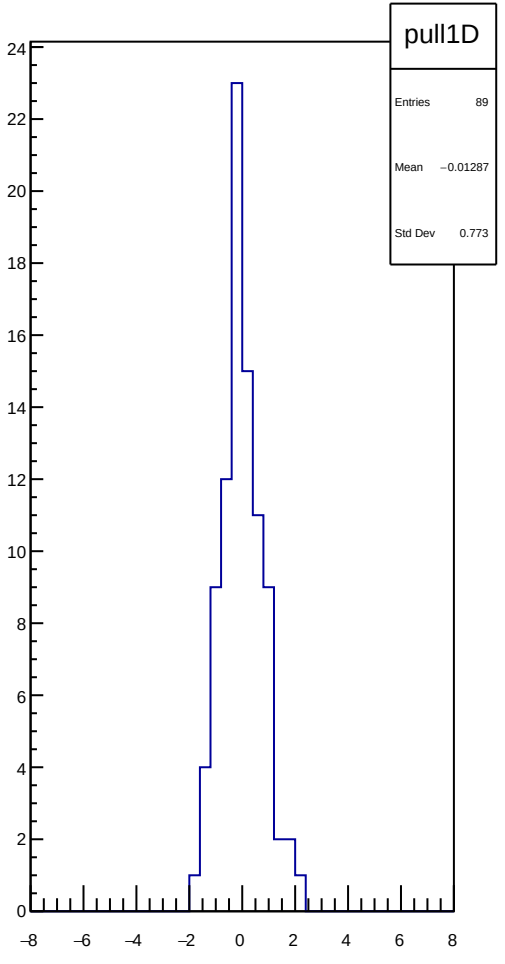

eigen_dit_asym_sam_48_dd_rms vs run
χ² / ndf 1.677e+04 / 88
p0 140.2 ± 0.1066
200
190
180
170
160
150
140
130
120

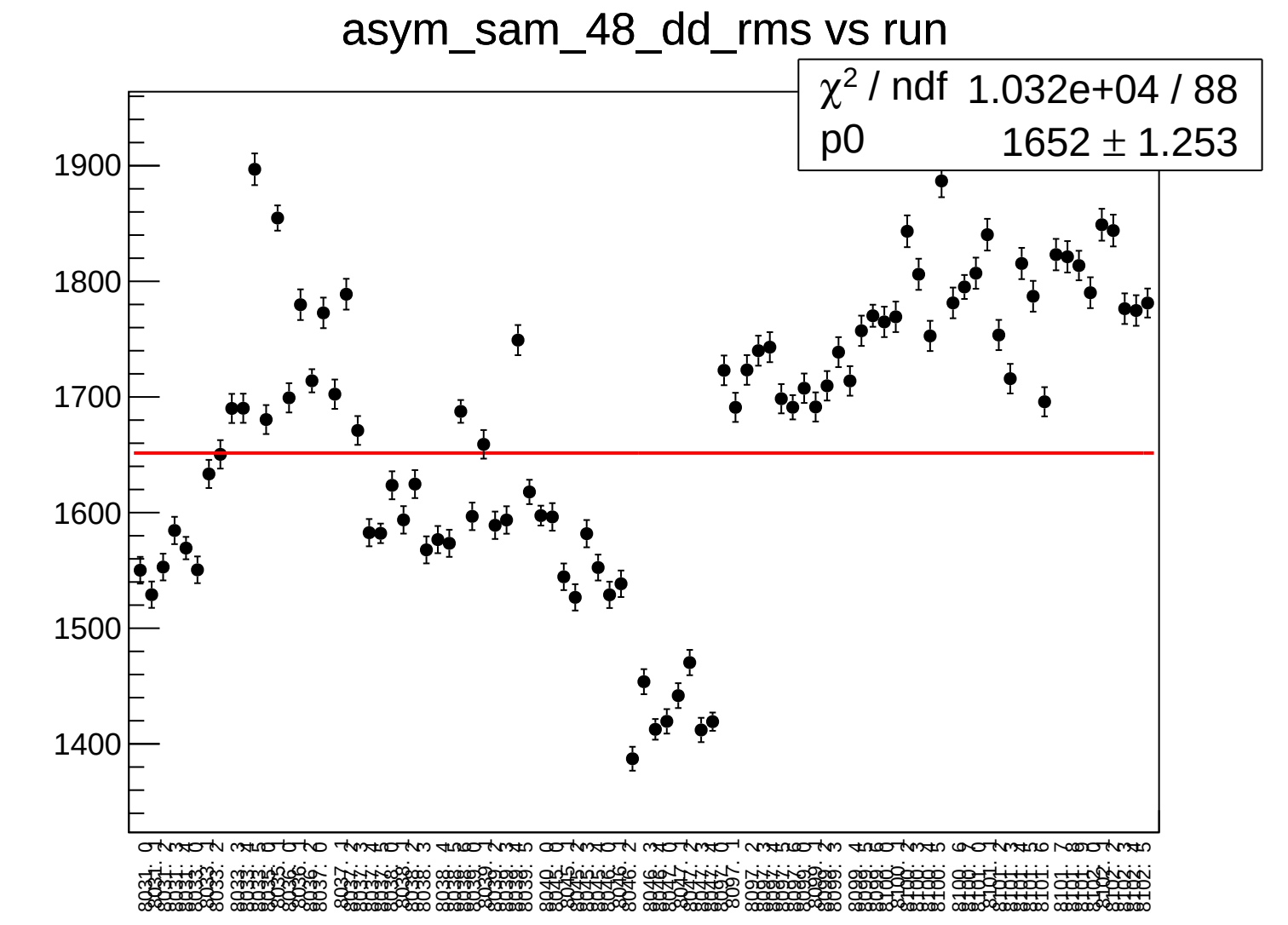

asym_sam_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 54.75 / 88
p0 −2099 ± 1808
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 229.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

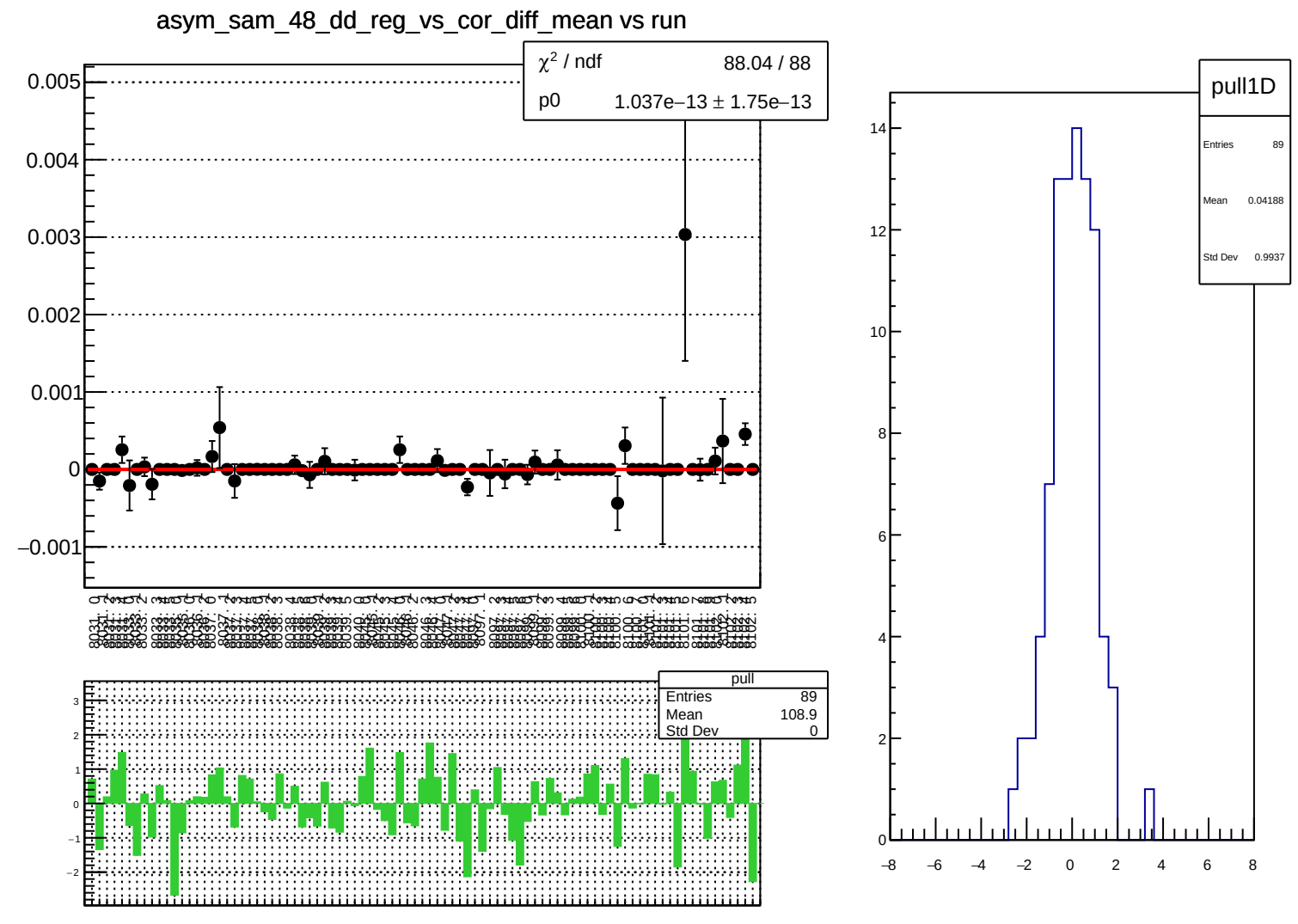

pull1D
Entries 89
Mean 0.01022
Std Dev 0.7842
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

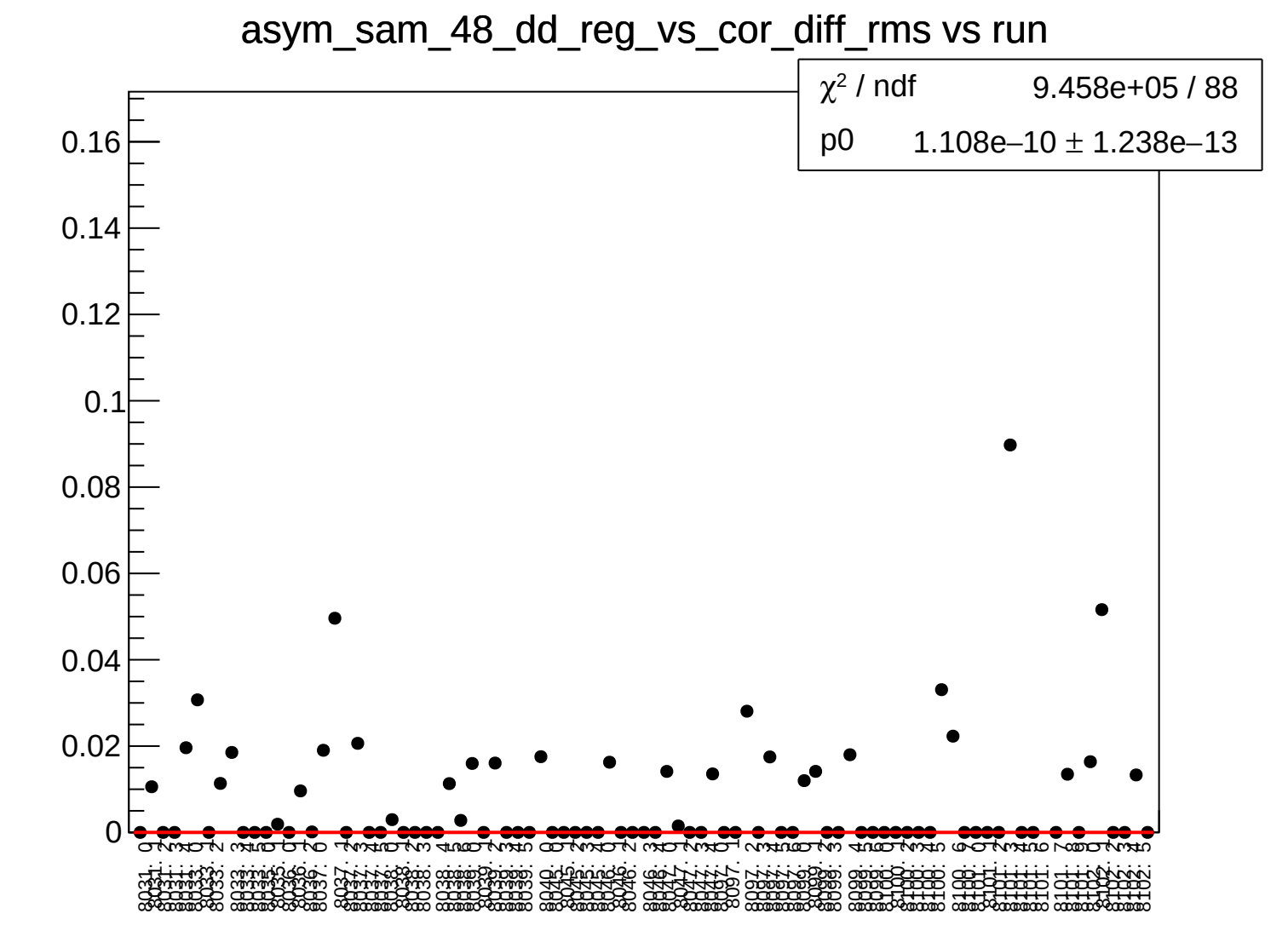

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 5905 / 88
p0 1687 ± 1.278
1950
1900
1850
1800
1750
1700
1650
1600
1550
1500

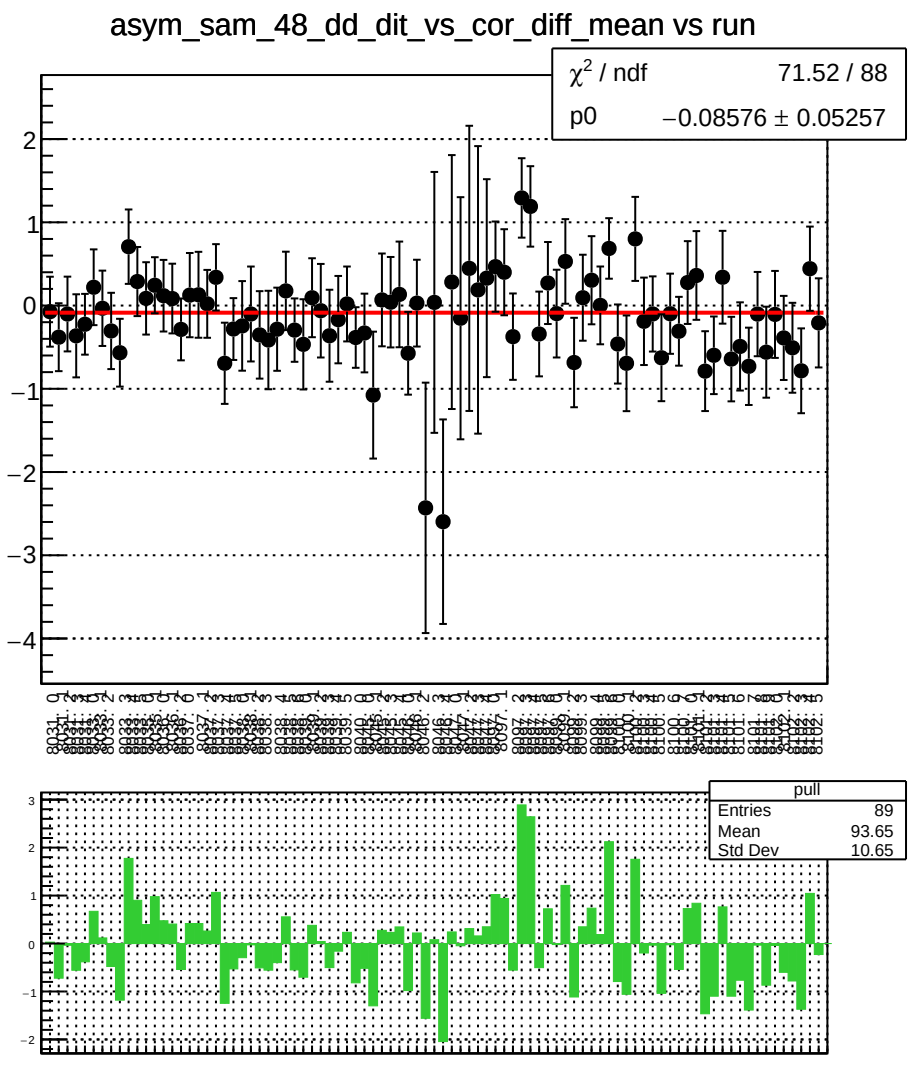

asym_sam_48_dd_mean vs run
χ² / ndf 53.2 / 88
p0 2096 ± 1772
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 200
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

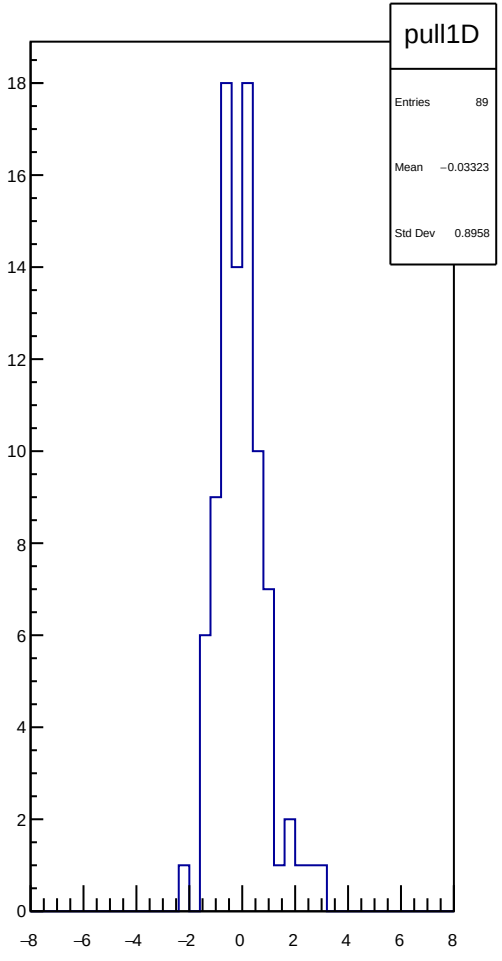

pull1D
Entries 89
Mean −0.01287
Std Dev 0.773
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

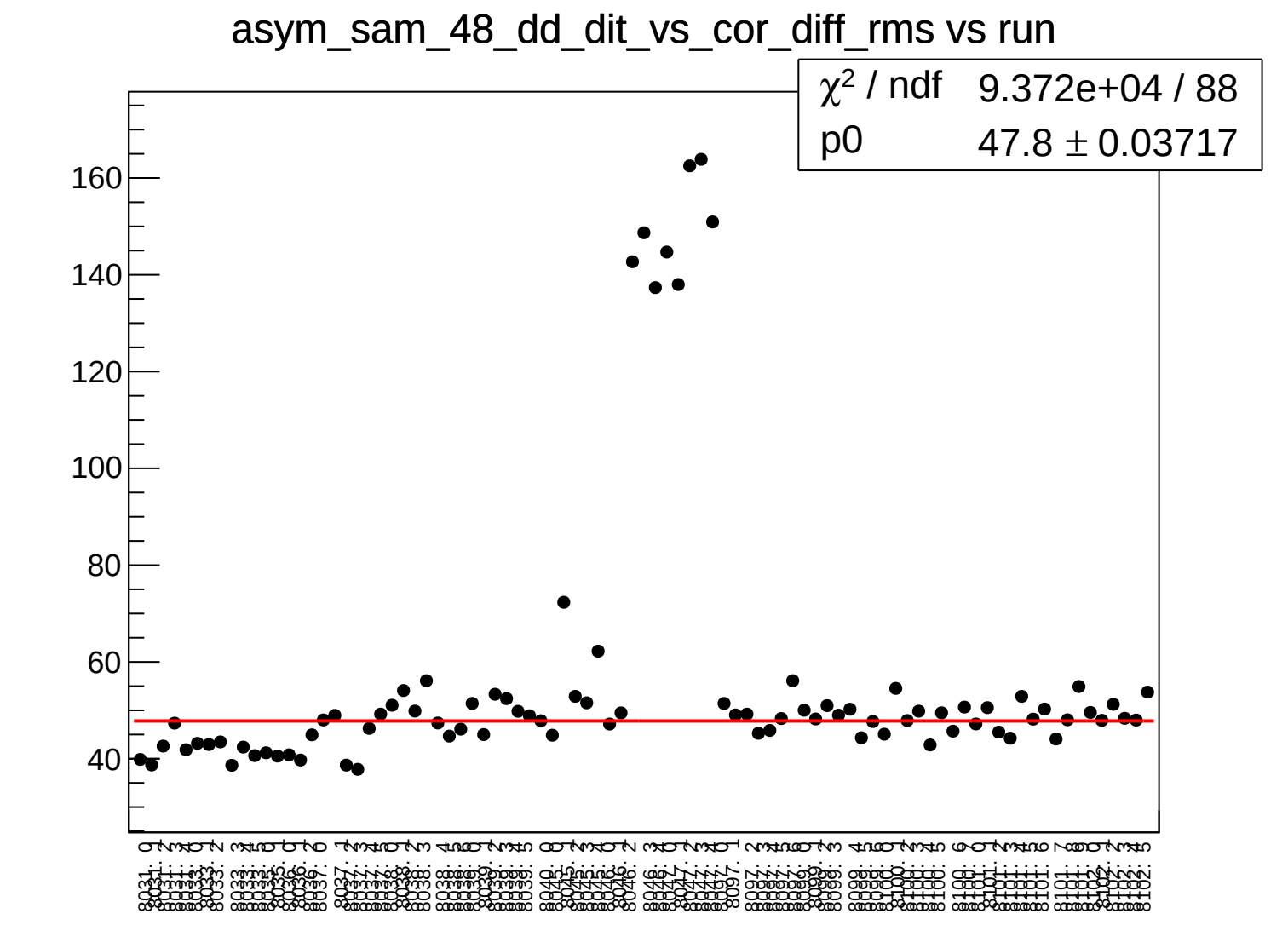

asym_sam_48_dd_rms vs run
χ² / ndf 1.032e+04 / 88
p0 1652 ± 1.253
1900
1800
1700
1600
1500
1400

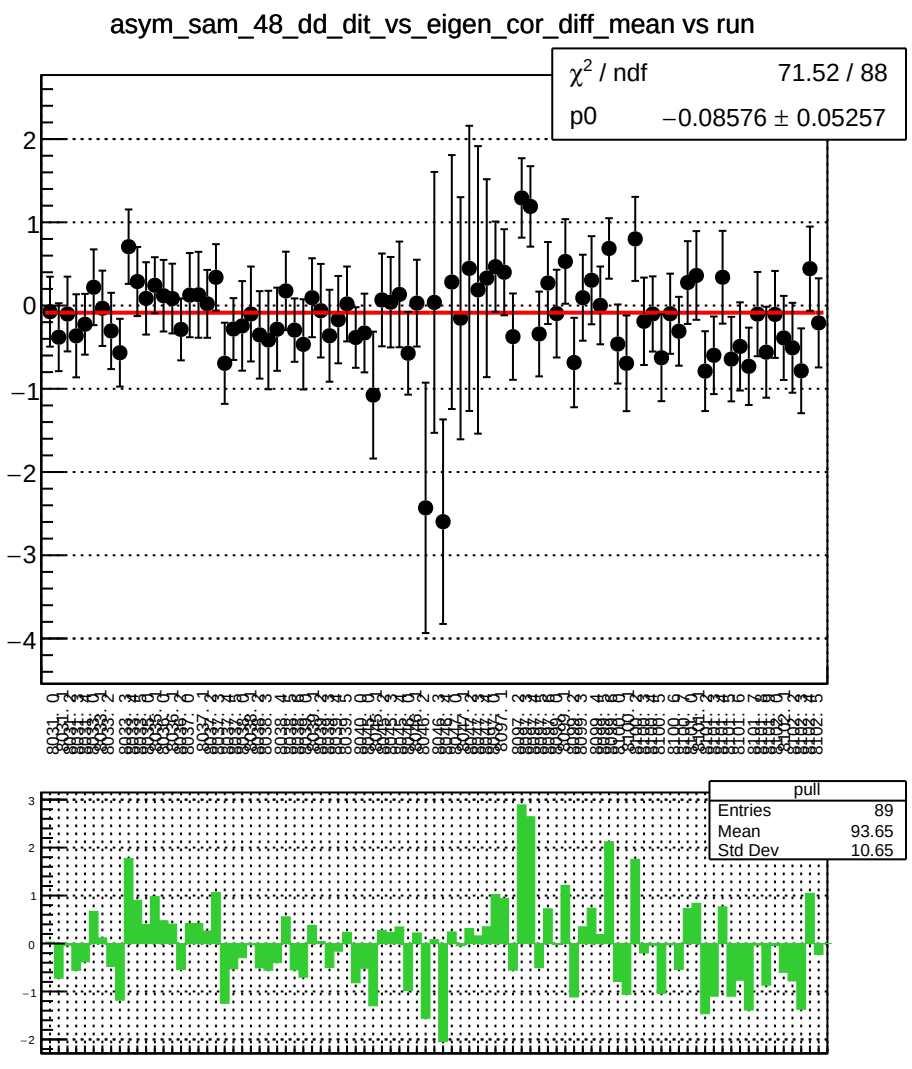

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 88.04 / 88
p0 1.037e−13 ± 1.75e−13
0.005
0.004
0.003
0.002
0.001
0
−0.001
pull
Entries 89
Mean 108.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.04188
Std Dev 0.9937
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

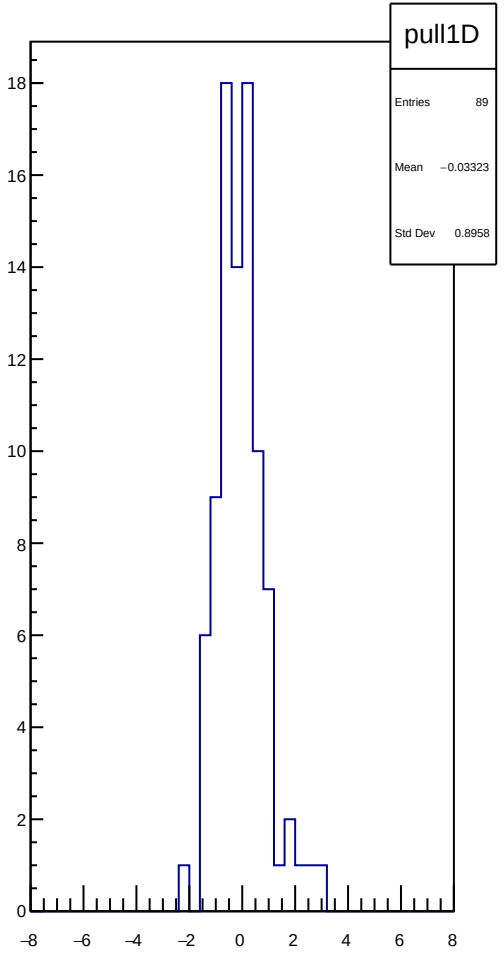

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.458e+05 / 88
p0 1.108e−10 ± 1.238e−13
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

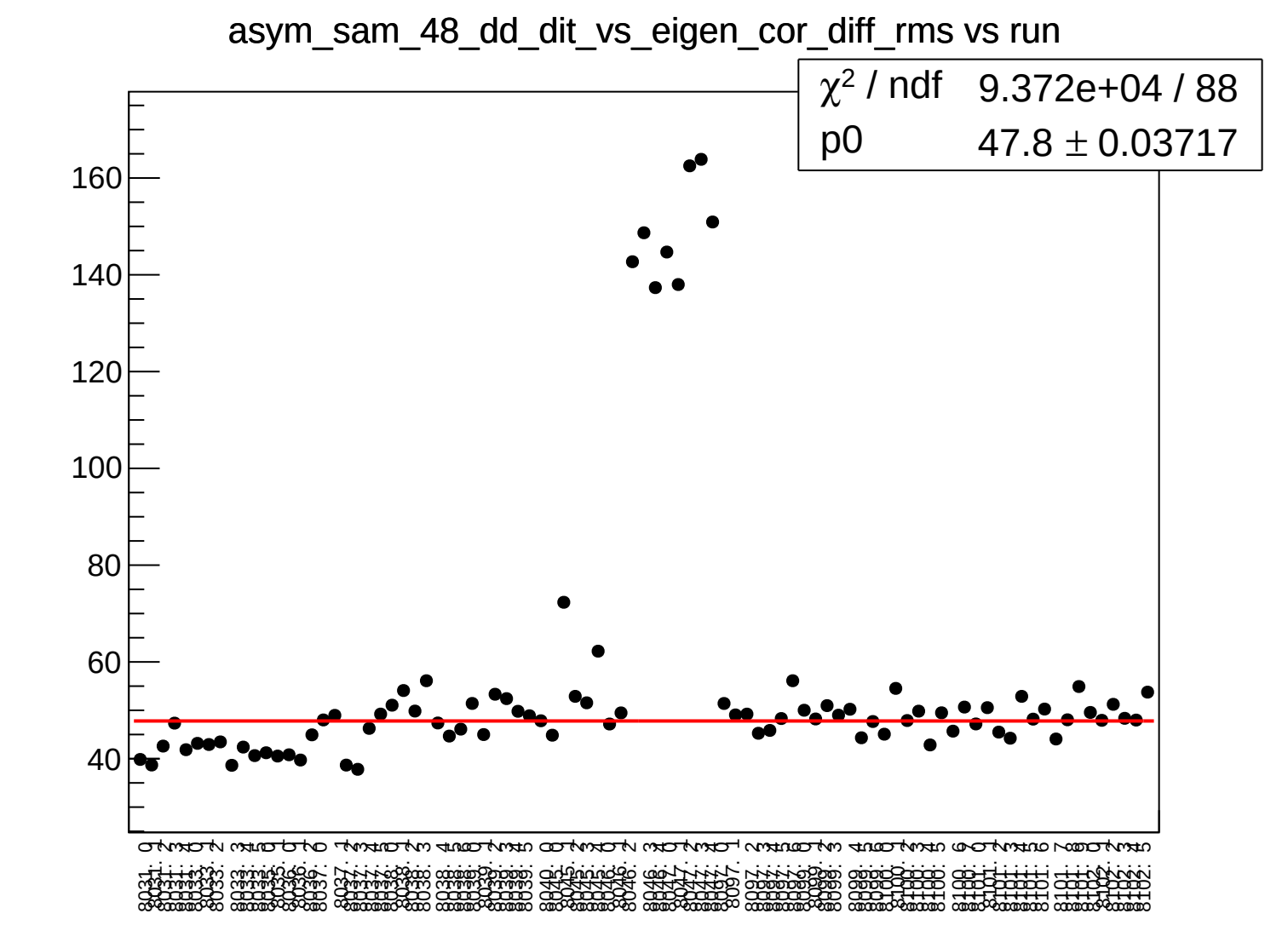

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 71.52 / 88
p0 −0.08576 ± 0.05257
pull
Entries 89
Mean 93.65
Std Dev 10.65

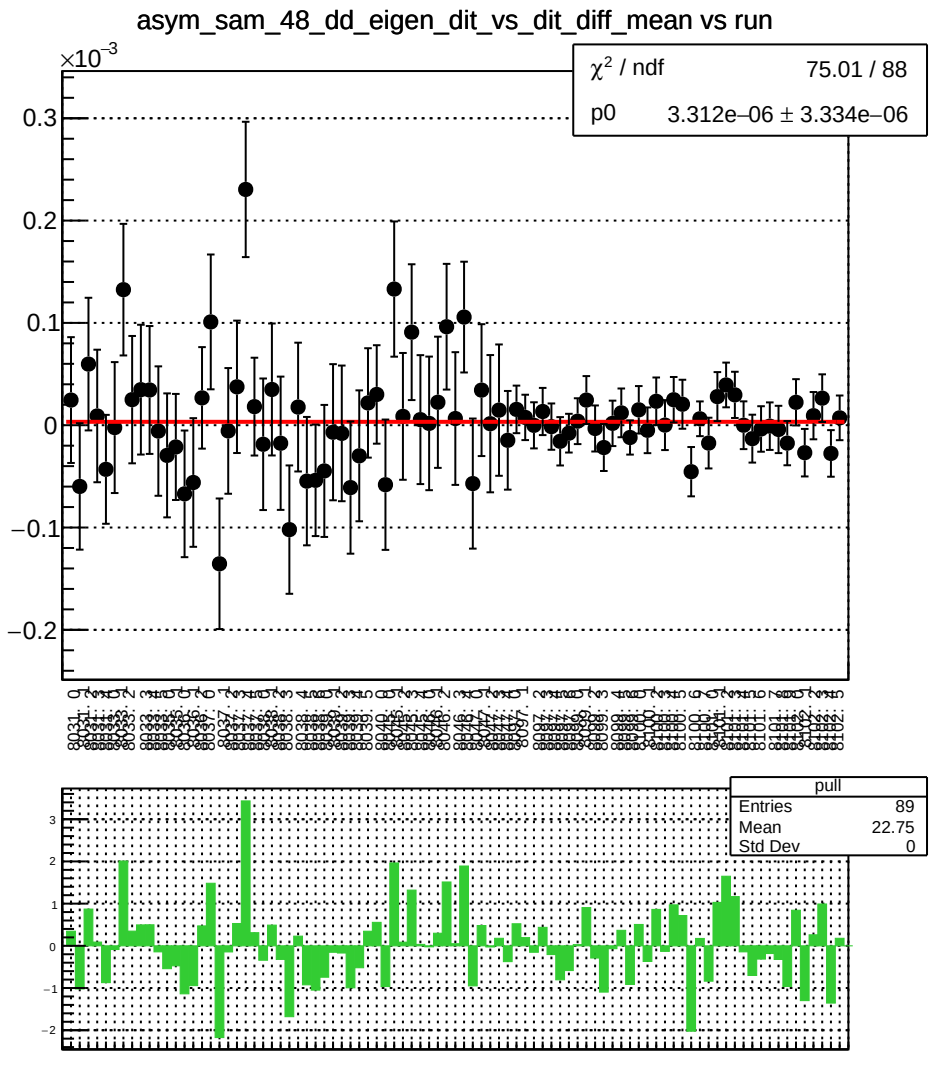

pull1D
Entries 89
Mean −0.03323
Std Dev 0.8958

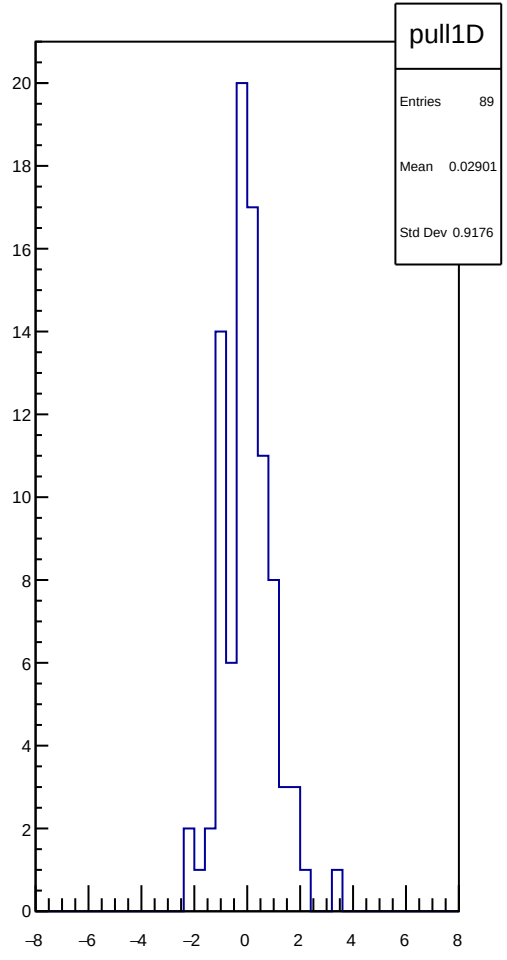

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9.372e+04 / 88
p0 47.8 ± 0.03717
160
140
120
100
80
60
40

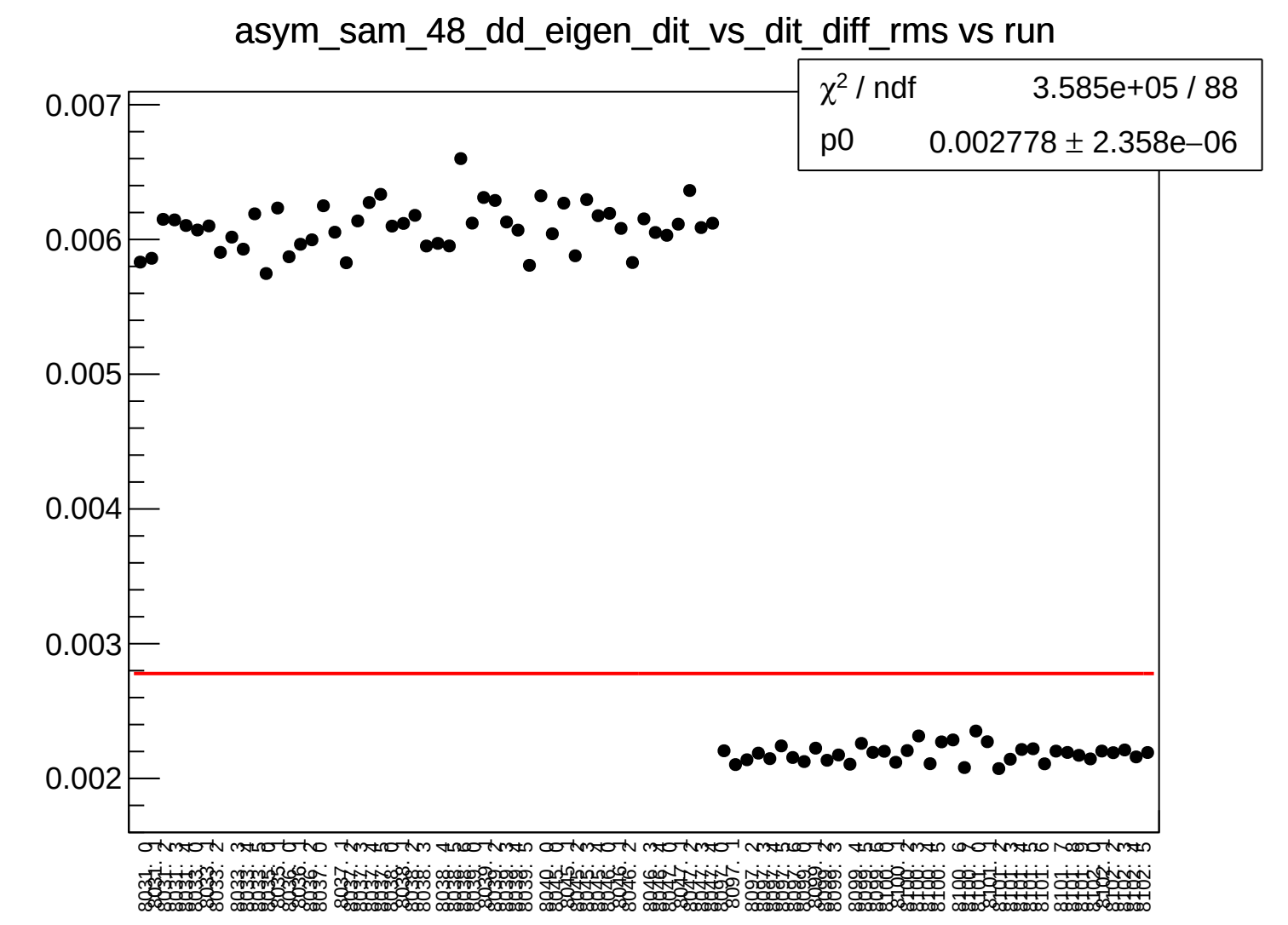

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.52 / 88
p0 −0.08576 ± 0.05257
pull
Entries 89
Mean 93.65
Std Dev 10.65

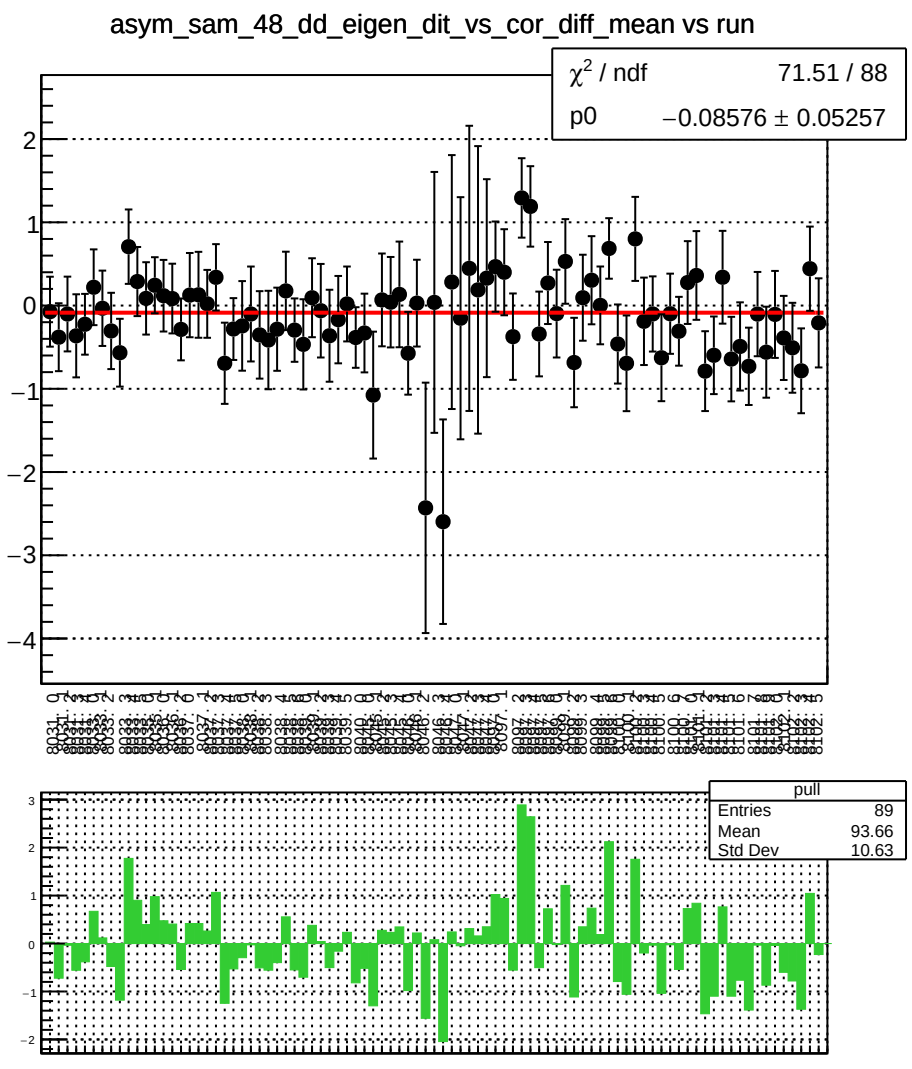

pull1D
Entries 89
Mean −0.03323
Std Dev 0.8958

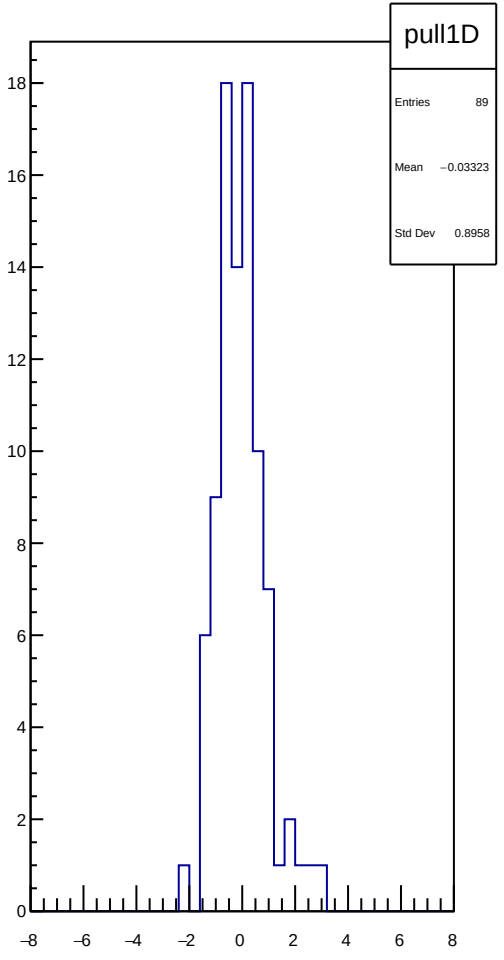

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.372e+04 / 88
p0 47.8 ± 0.03717
160
140
120
100
80
60
40

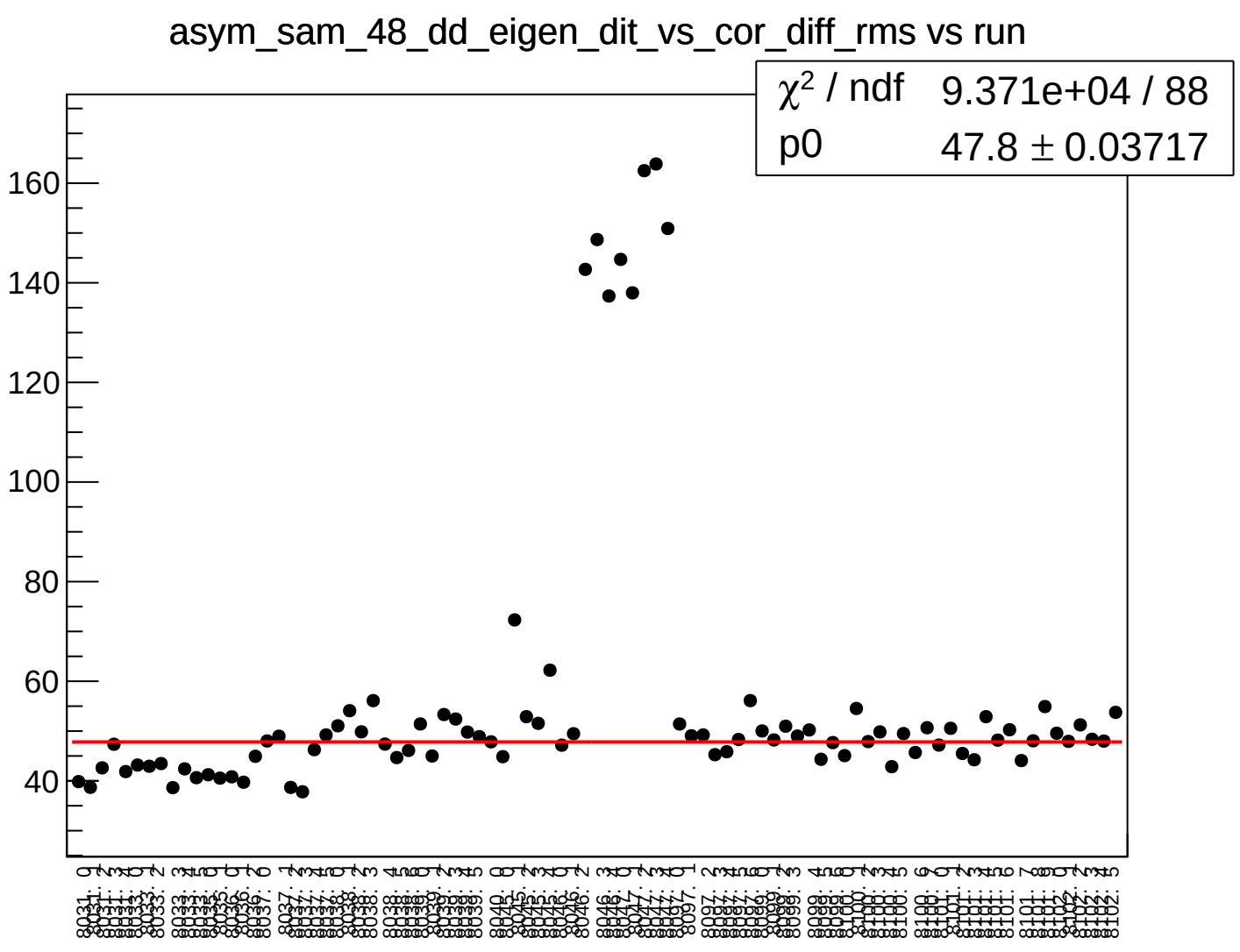

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.01 / 88
p0 3.312e−06 ± 3.334e−06
pull
Entries 89
Mean 22.75
Std Dev 0

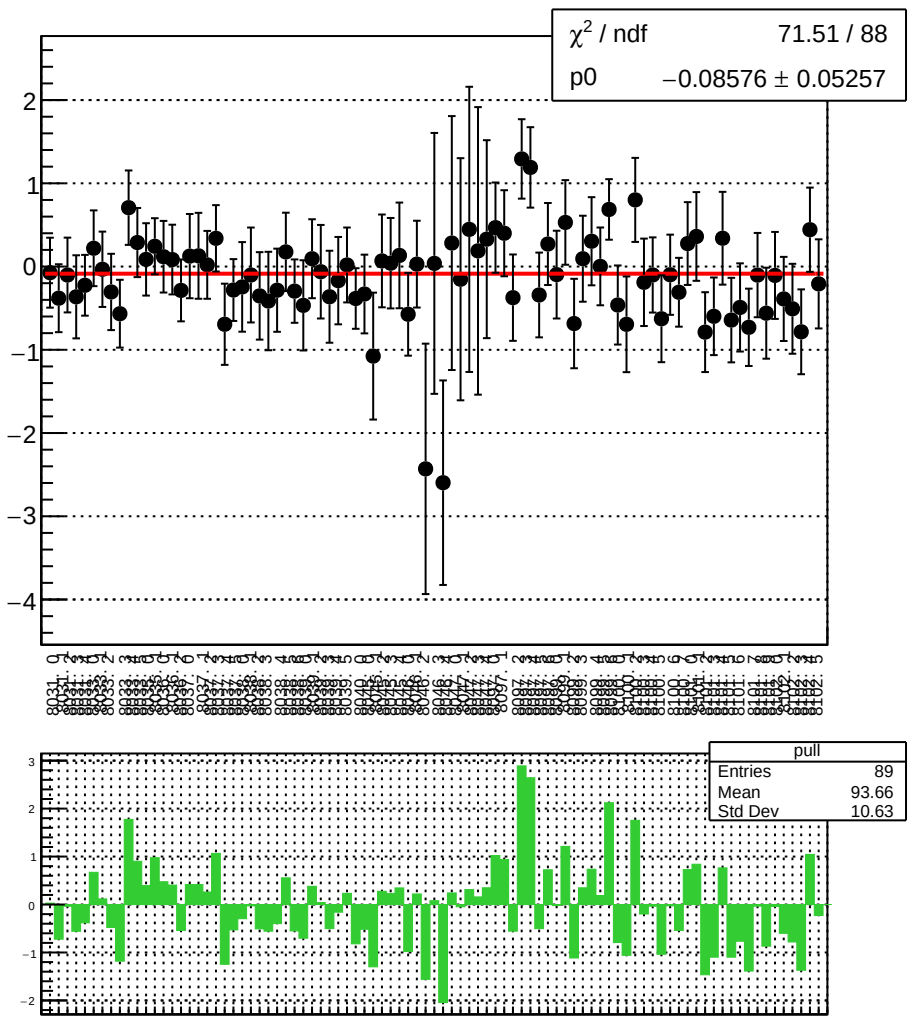

pull1D
Entries 89
Mean 0.02901
Std Dev 0.9176

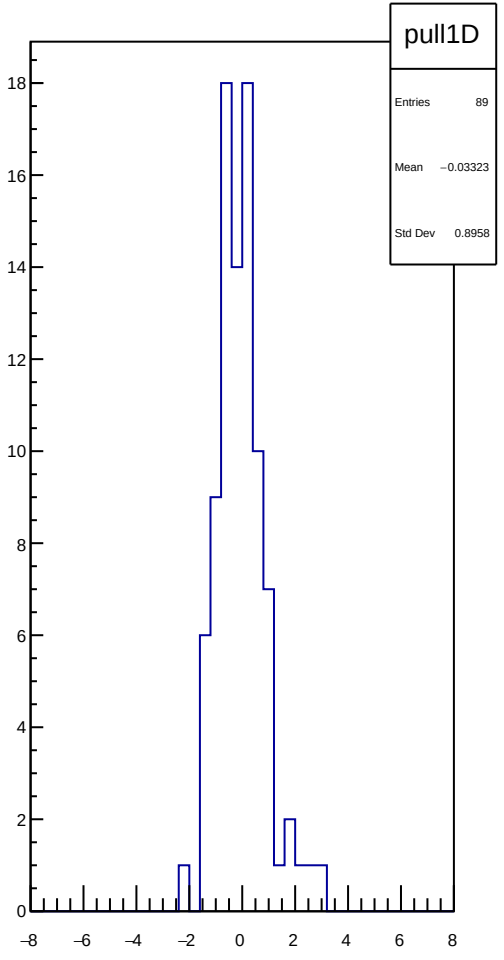

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.585e+05 / 88
p0 0.002778 ± 2.358e−06
0.007
0.006
0.005
0.004
0.003
0.002

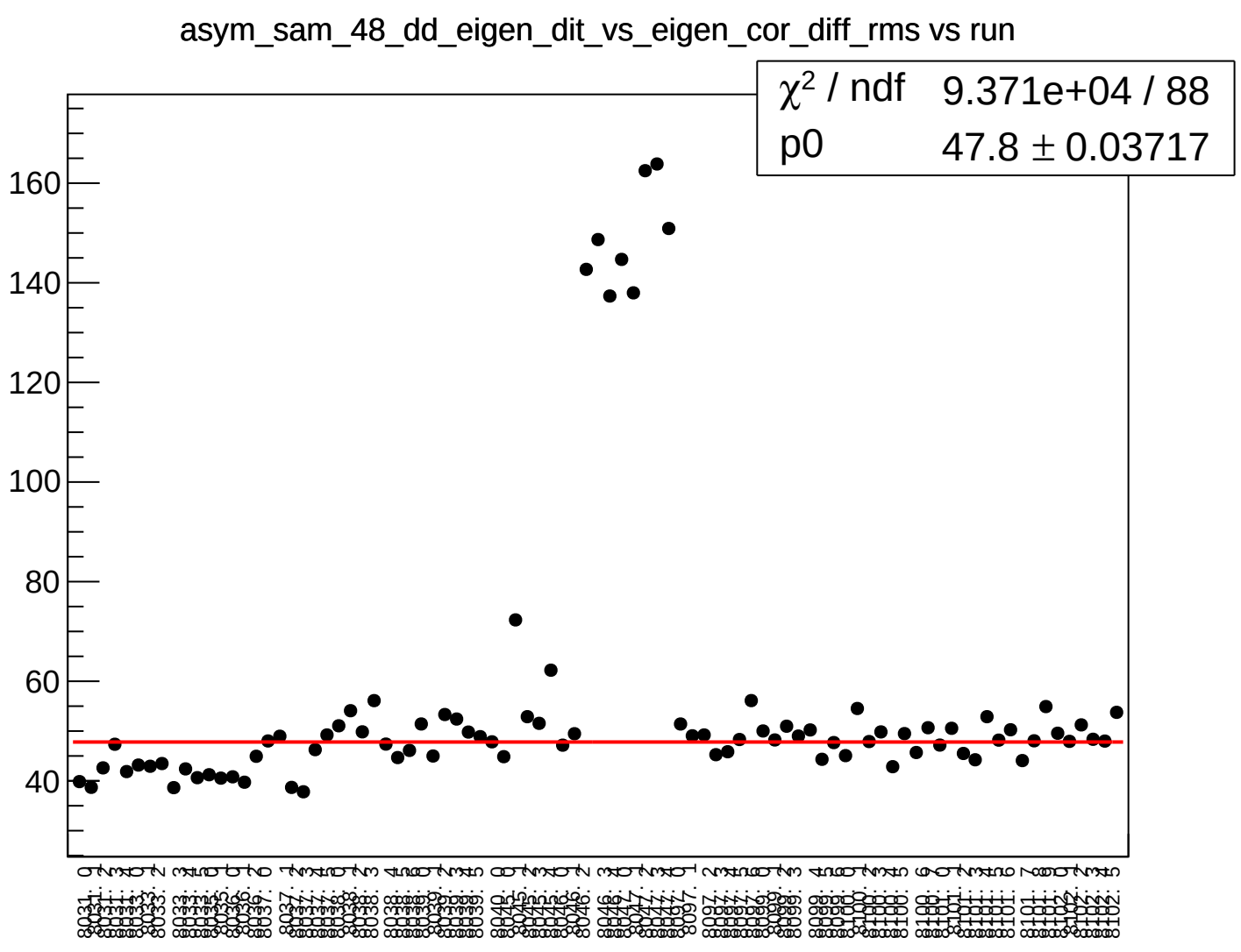

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.51 / 88
p0 −0.08576 ± 0.05257
pull
Entries 89
Mean 93.66
Std Dev 10.63

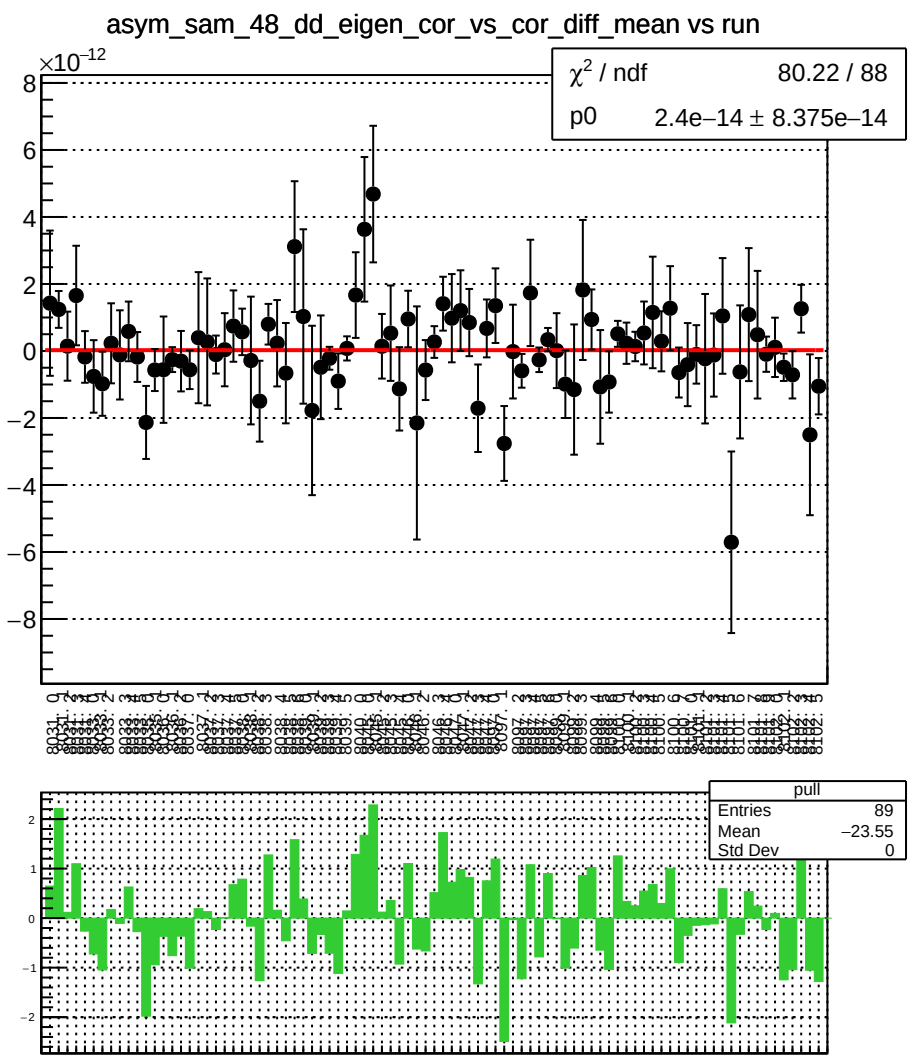

pull1D
Entries 89
Mean −0.03323
Std Dev 0.8958

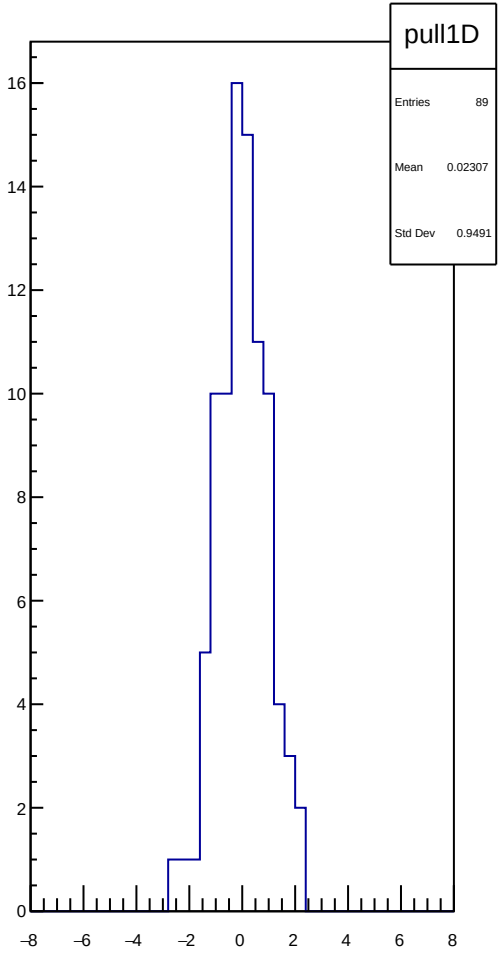

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.371e+04 / 88
p0 47.8 ± 0.03717
160
140
120
100
80
60
40

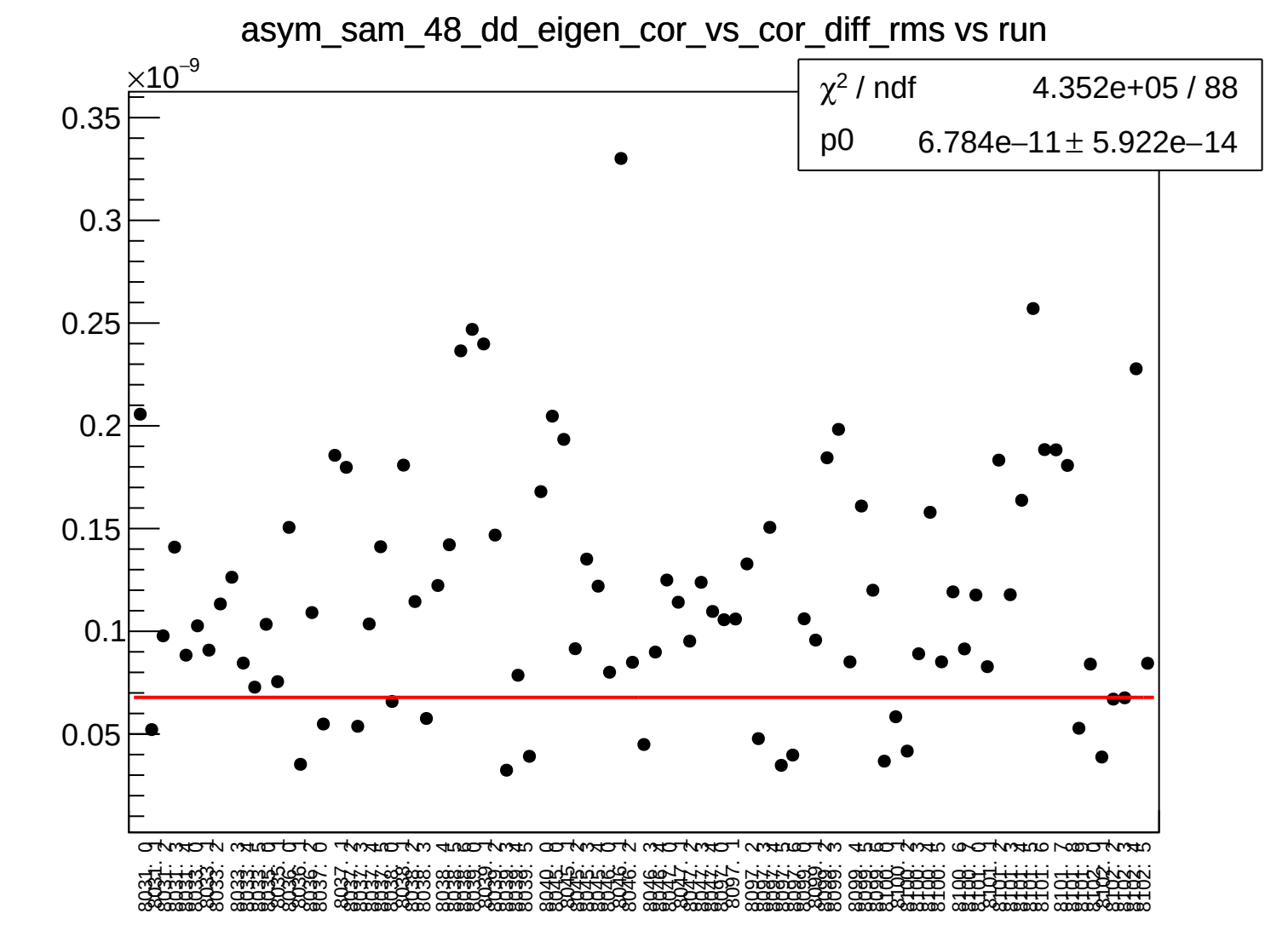

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.51 / 88
p0 −0.08576 ± 0.05257
pull
Entries 89
Mean 93.66
Std Dev 10.63

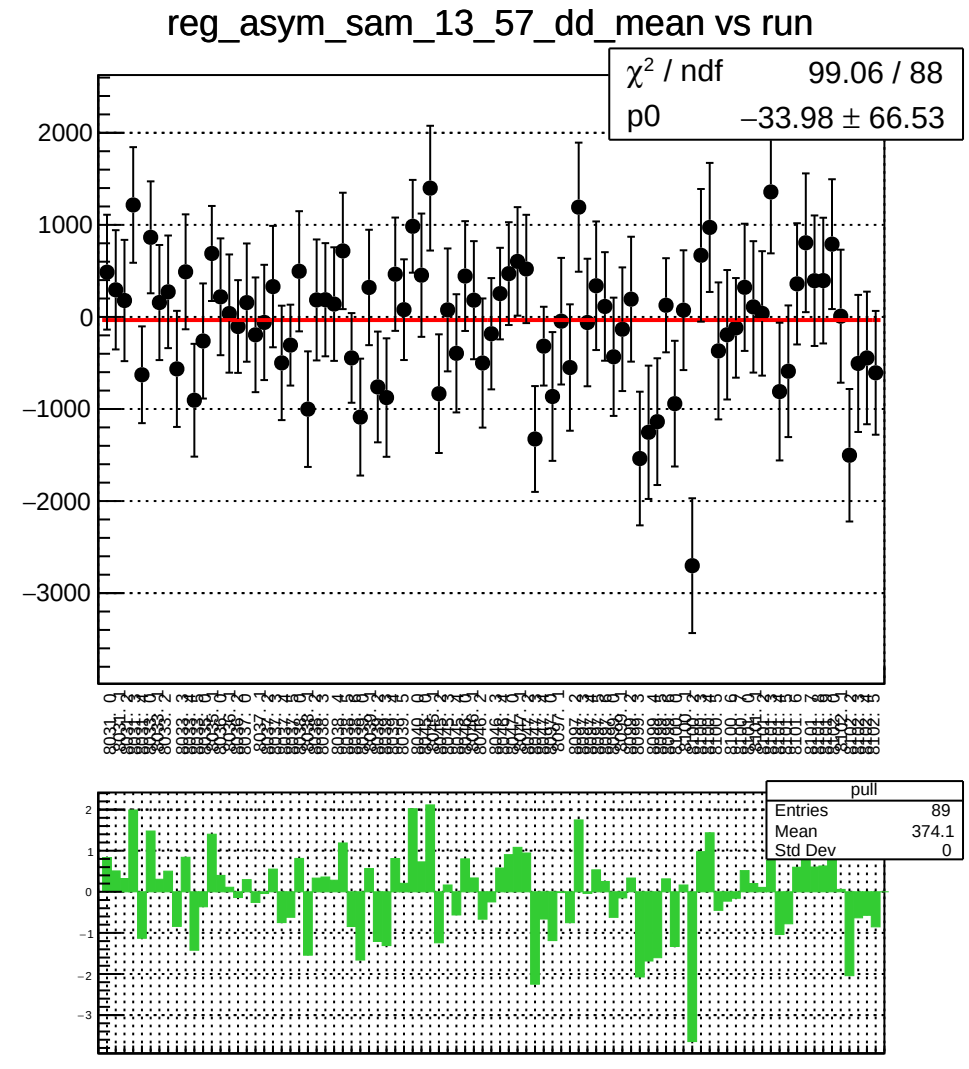

pull1D
Entries 89
Mean −0.03323
Std Dev 0.8958

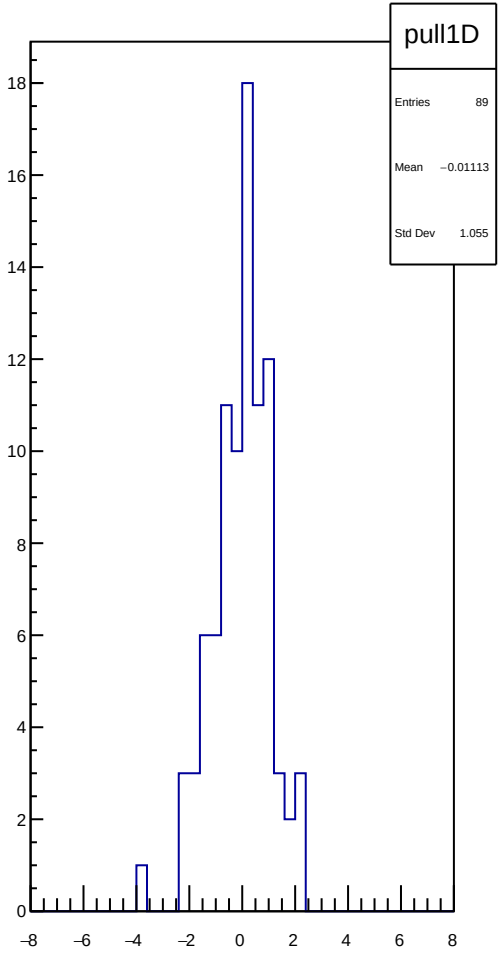

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.371e+04 / 88
p0 47.8 ± 0.03717
160
140
120
100
80
60
40

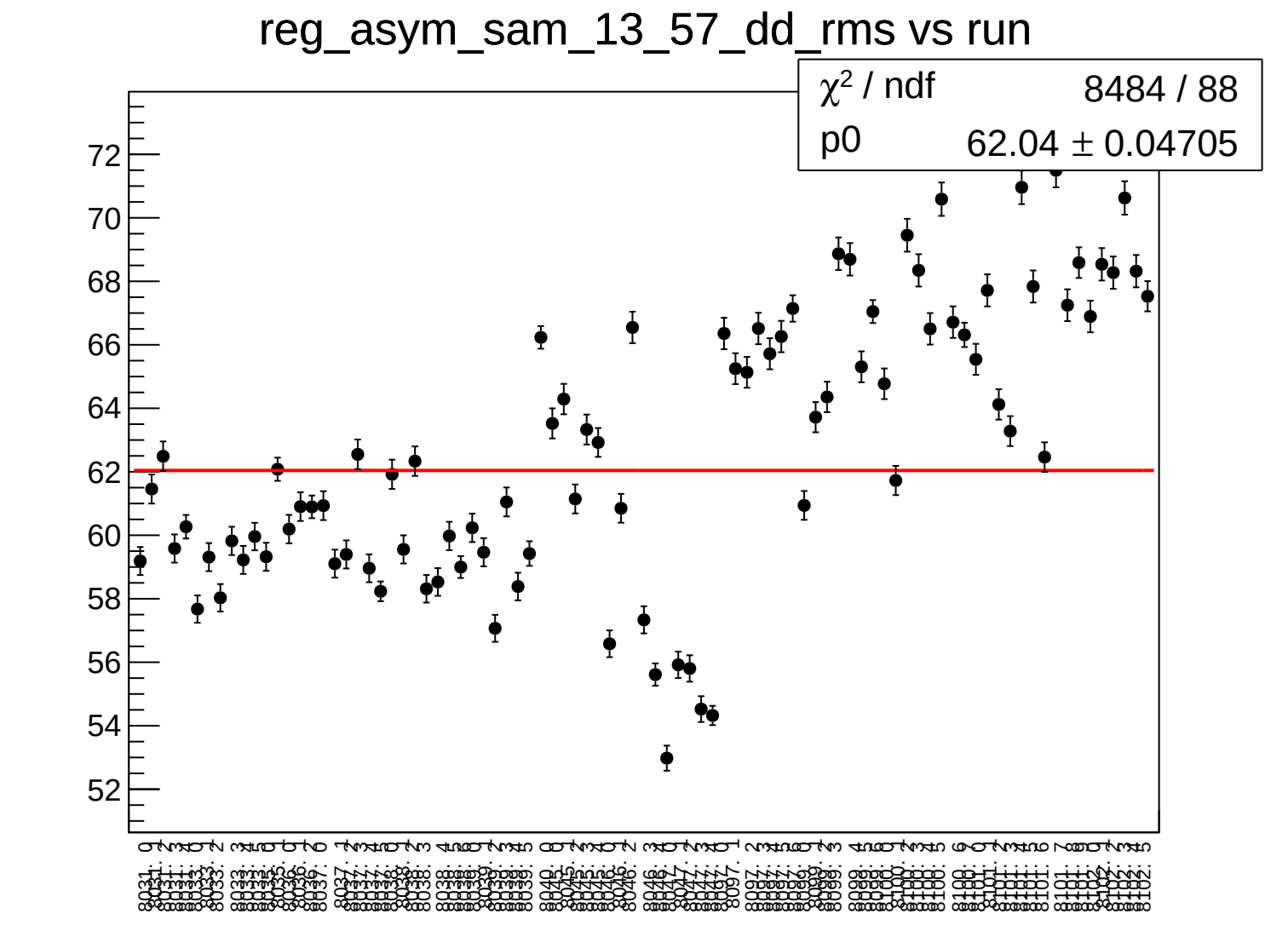

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.22 / 88
p0 2.4e−14 ± 8.375e−14
pull
Entries 89
Mean −23.55
Std Dev 0

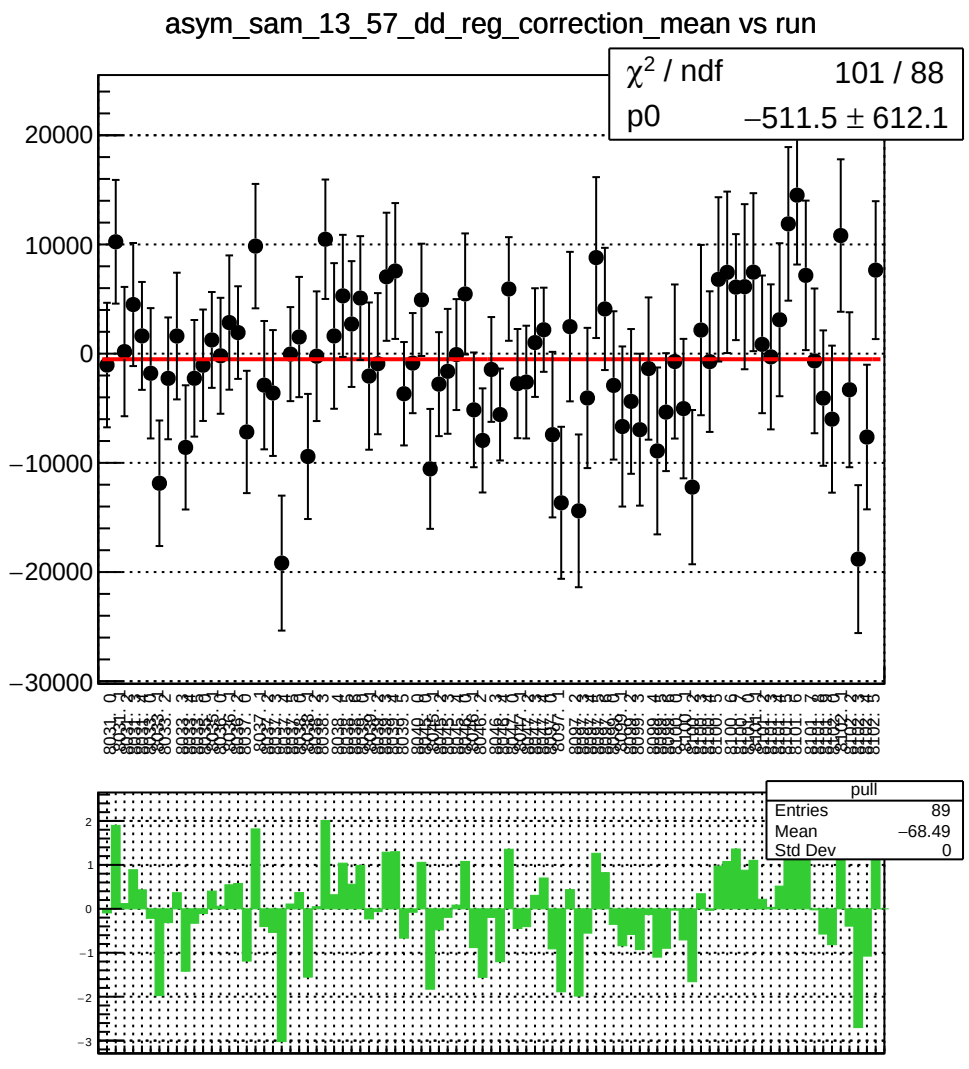

pull1D
Entries 89
Mean 0.02307
Std Dev 0.9491

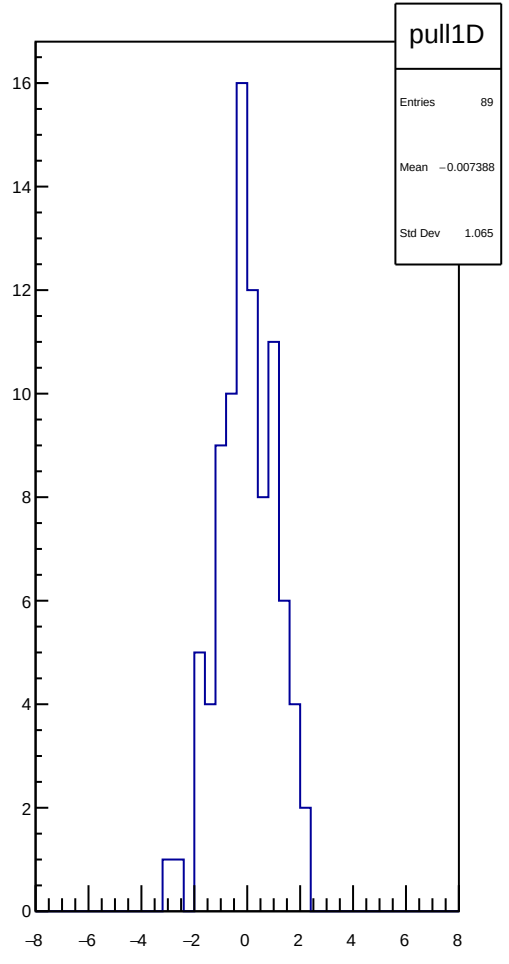

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.352e+05 / 88
p0 6.784e−11 ± 5.922e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

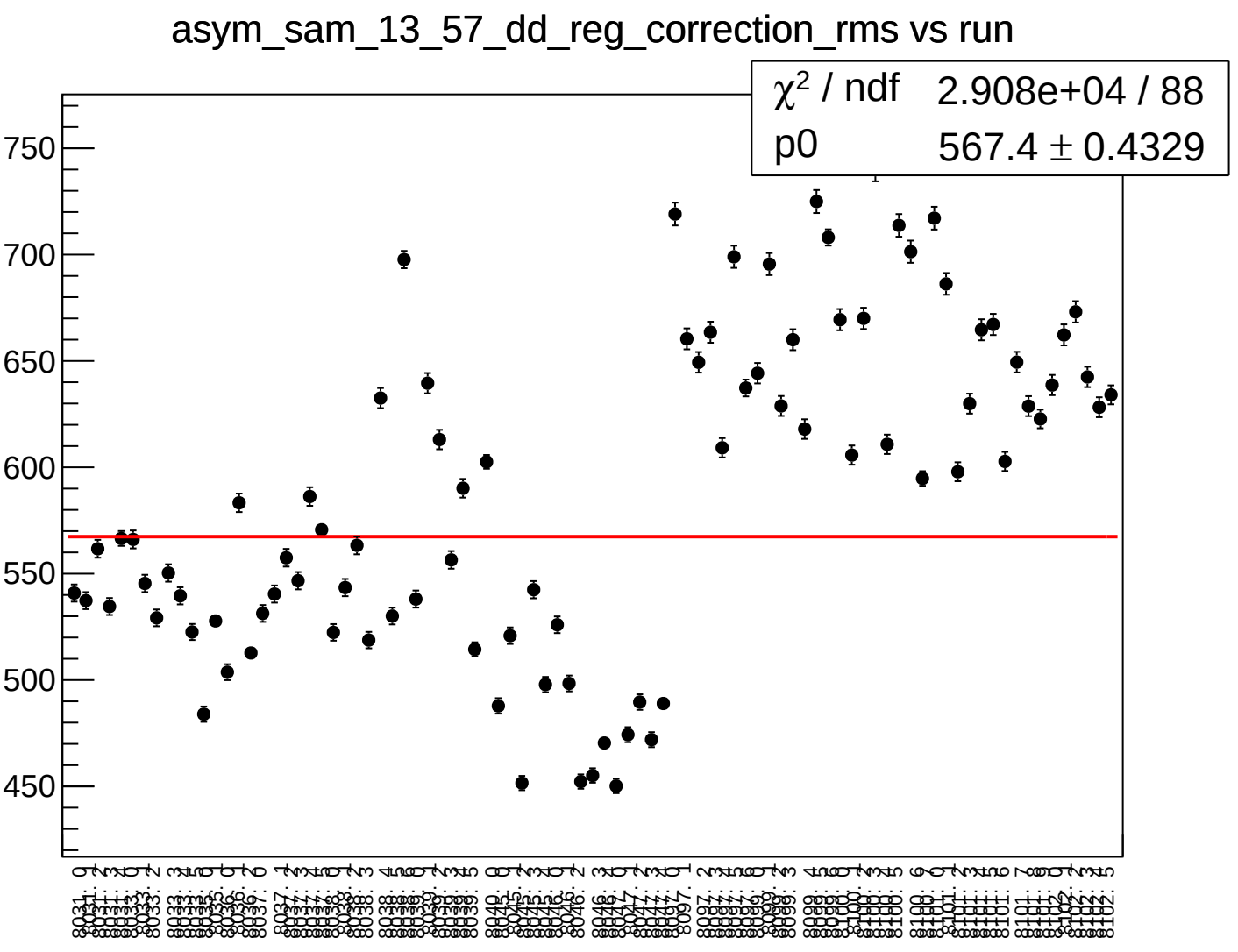

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 99.06 / 88
p0 −33.98 ± 66.53
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean 374.1
Std Dev 0
2
1
0
−1
−2
−3

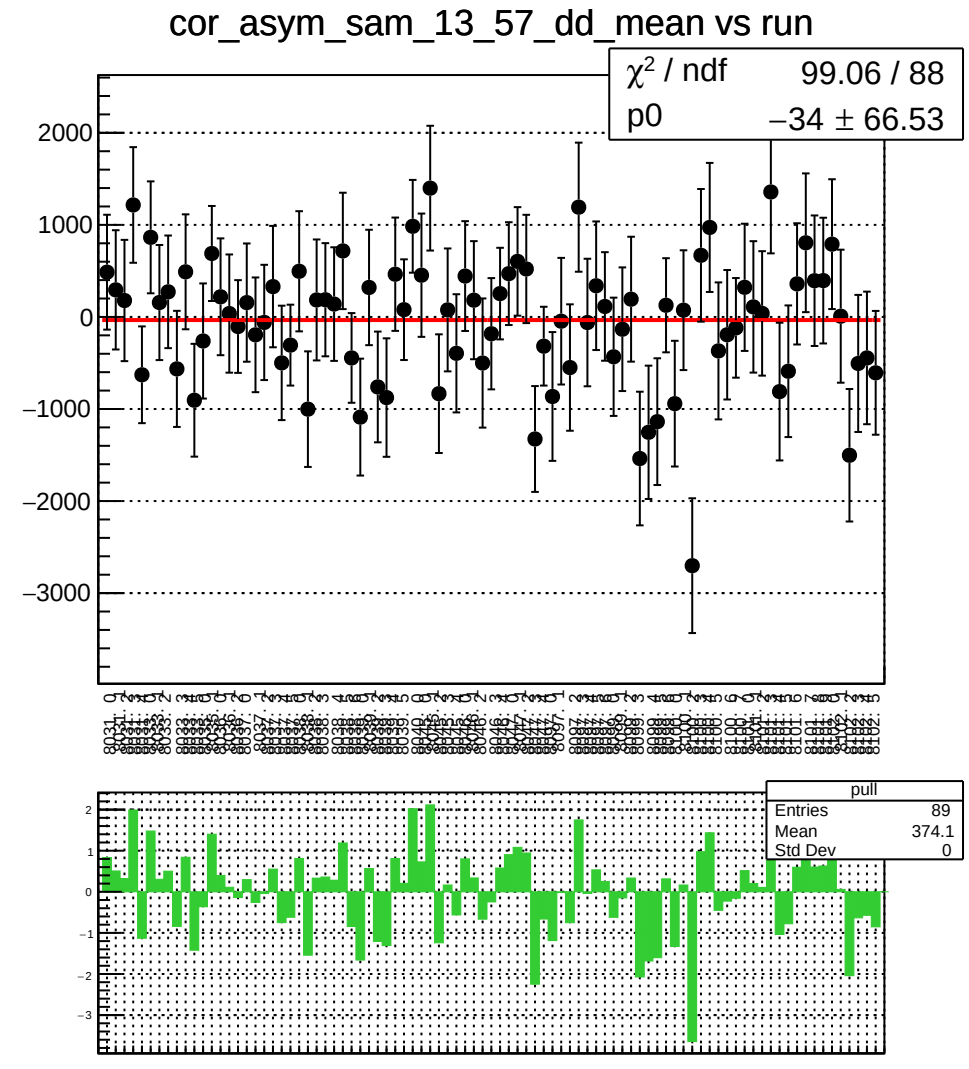

pull1D
Entries 89
Mean −0.01113
Std Dev 1.055
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

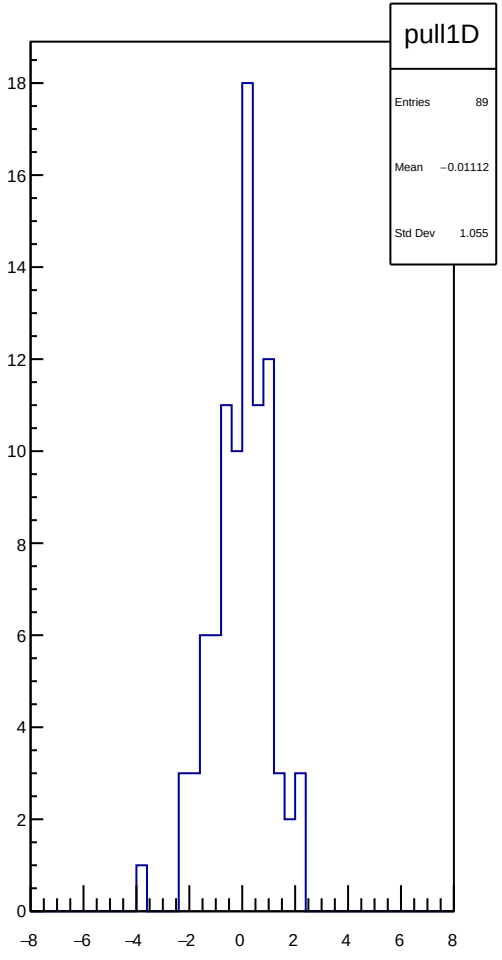

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 8484 / 88
p0 62.04 ± 0.04705
72
70
68
66
64
62
60
58
56
54
52

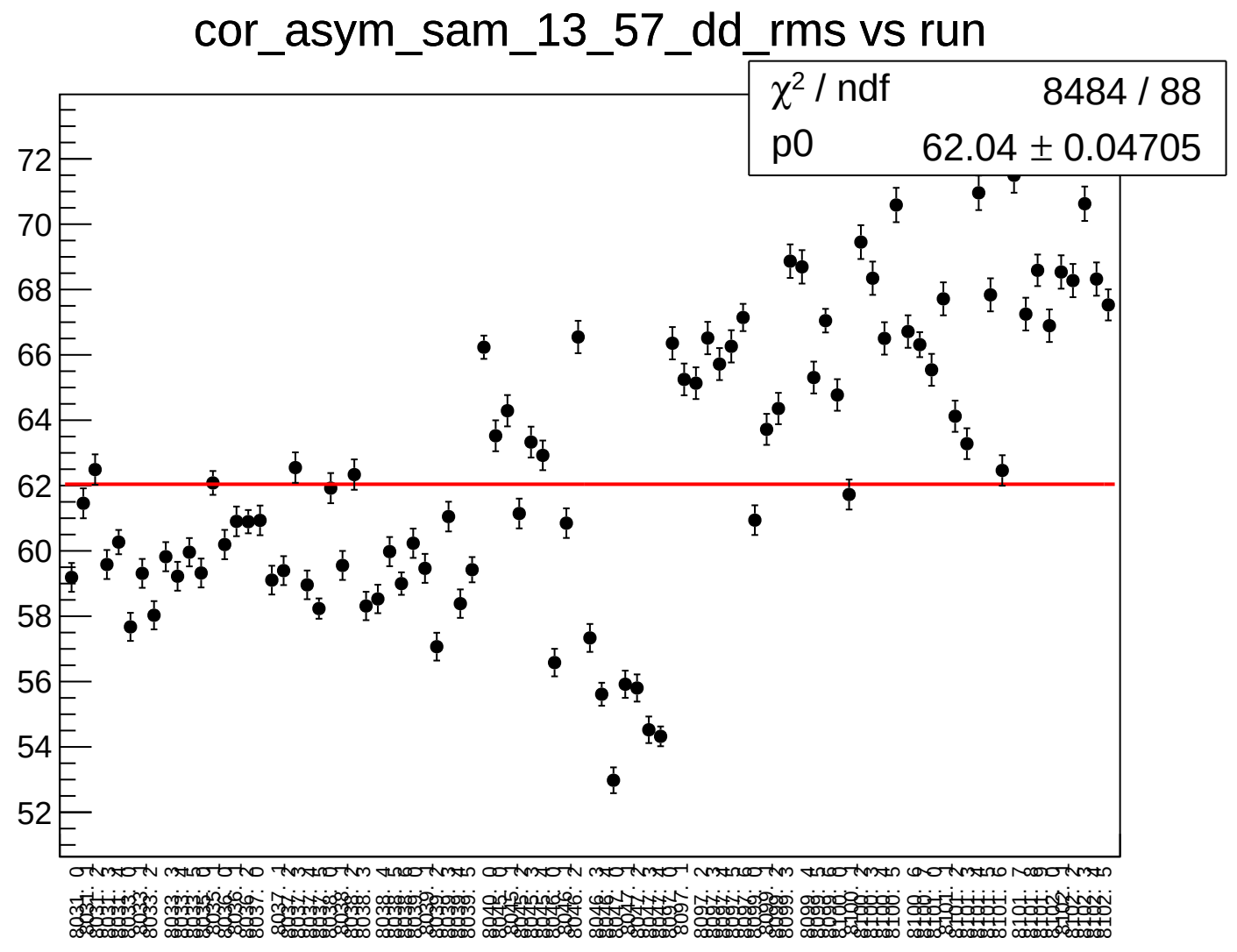

asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 101 / 88
p0 −511.5 ± 612.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −68.49
Std Dev 0
2
1
0
−1
−2
−3

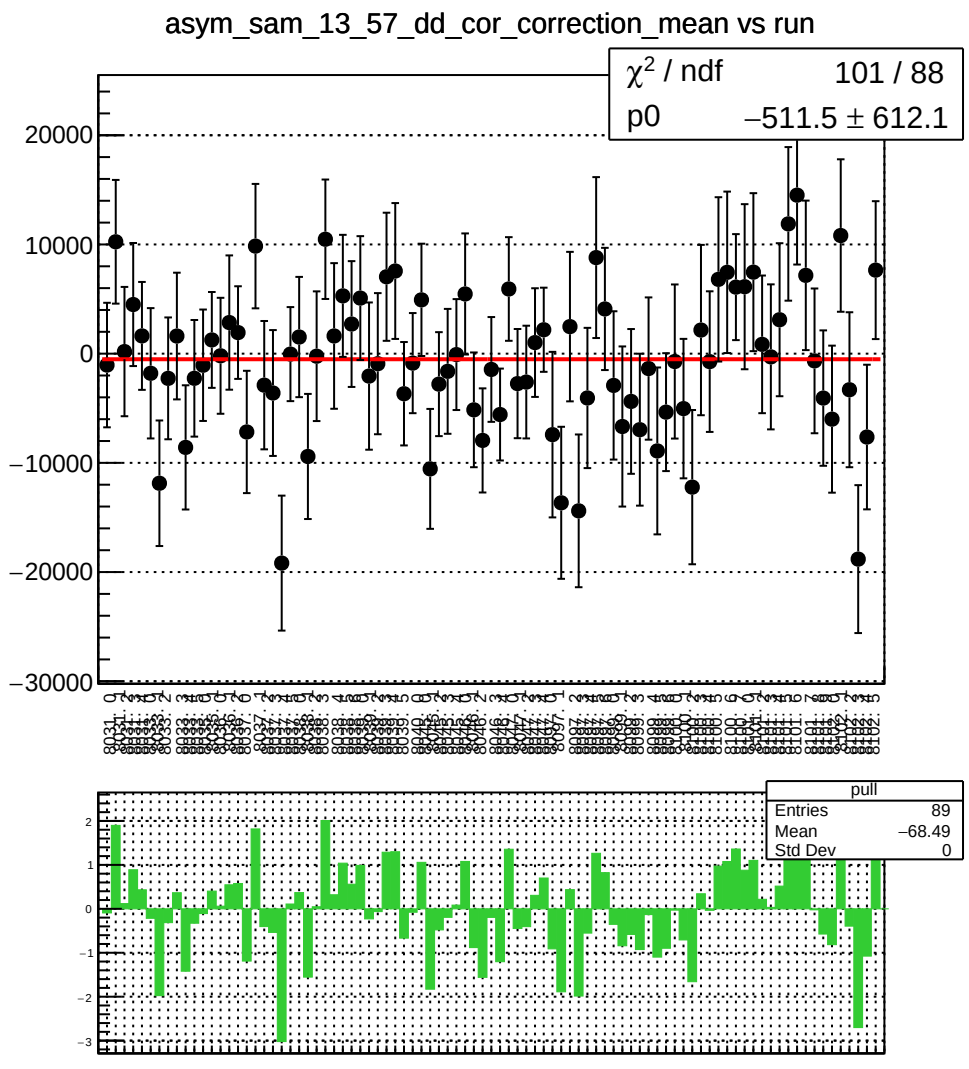

pull1D
Entries 89
Mean −0.007388
Std Dev 1.065
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

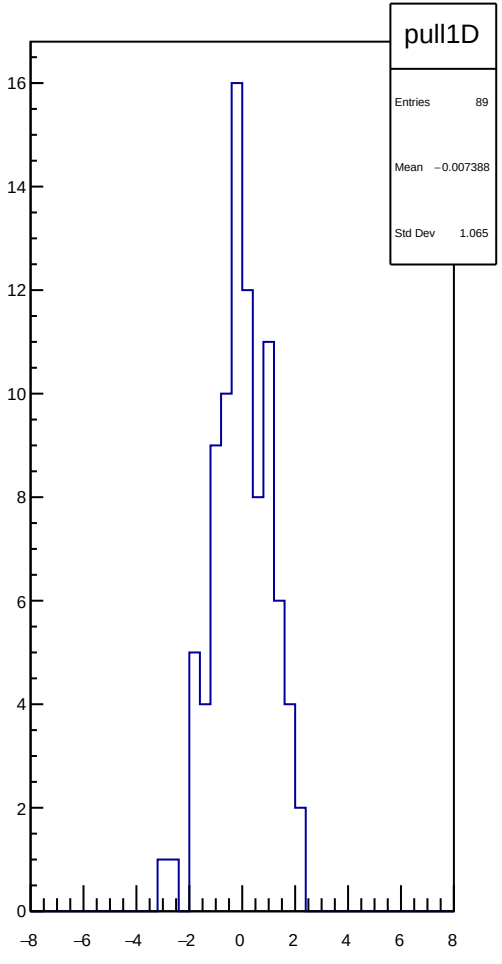

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 2.908e+04 / 88
p0 567.4 ± 0.4329
750
700
650
600
550
500
450


cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 99.06 / 88
p0 −34 ± 66.53
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean 374.1
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 89
Mean −0.01112
Std Dev 1.055
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 8484 / 88
p0 62.04 ± 0.04705
72
70
68
66
64
62
60
58
56
54
52


asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 101 / 88
p0 −511.5 ± 612.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −68.49
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 89
Mean −0.007388
Std Dev 1.065
16
14
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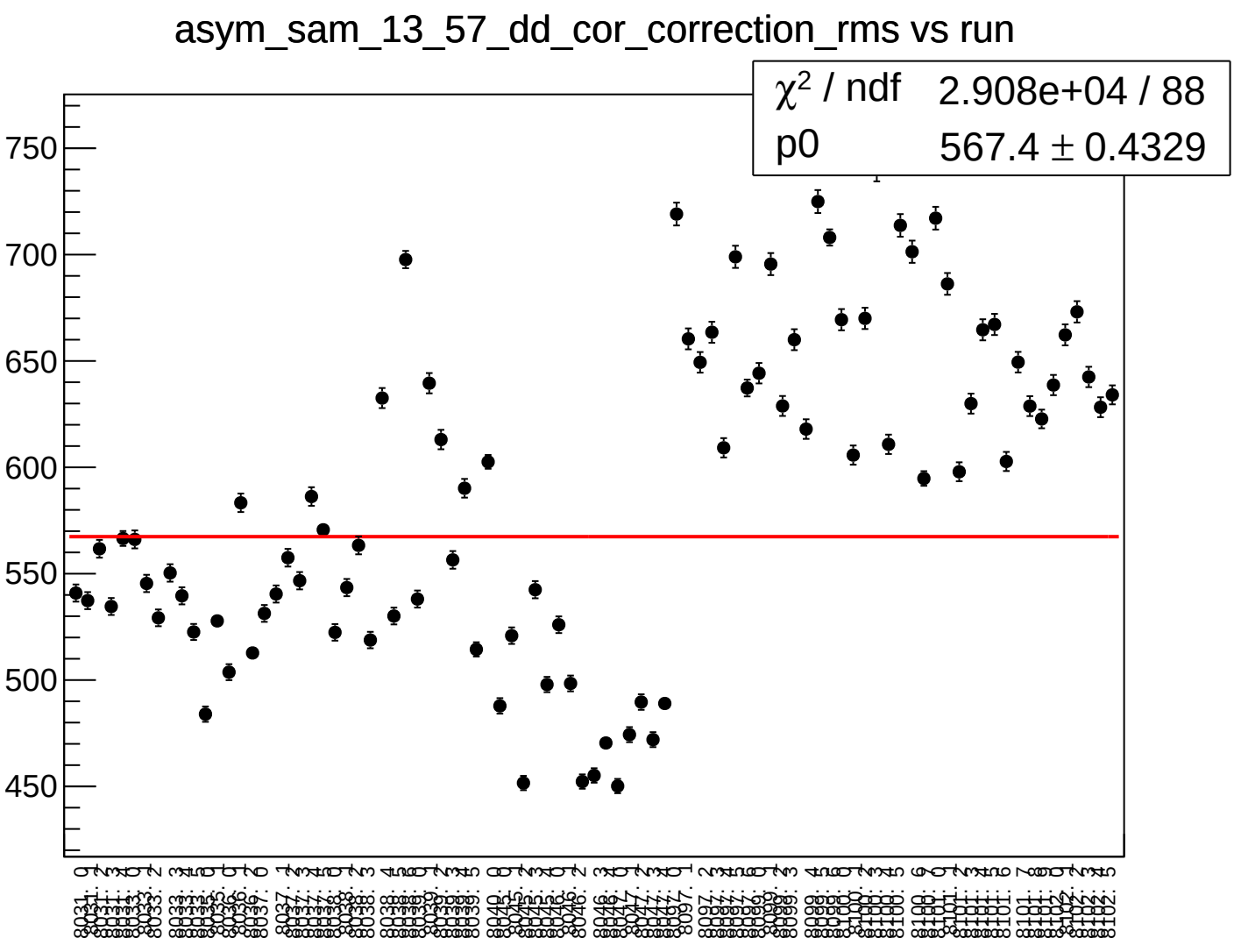
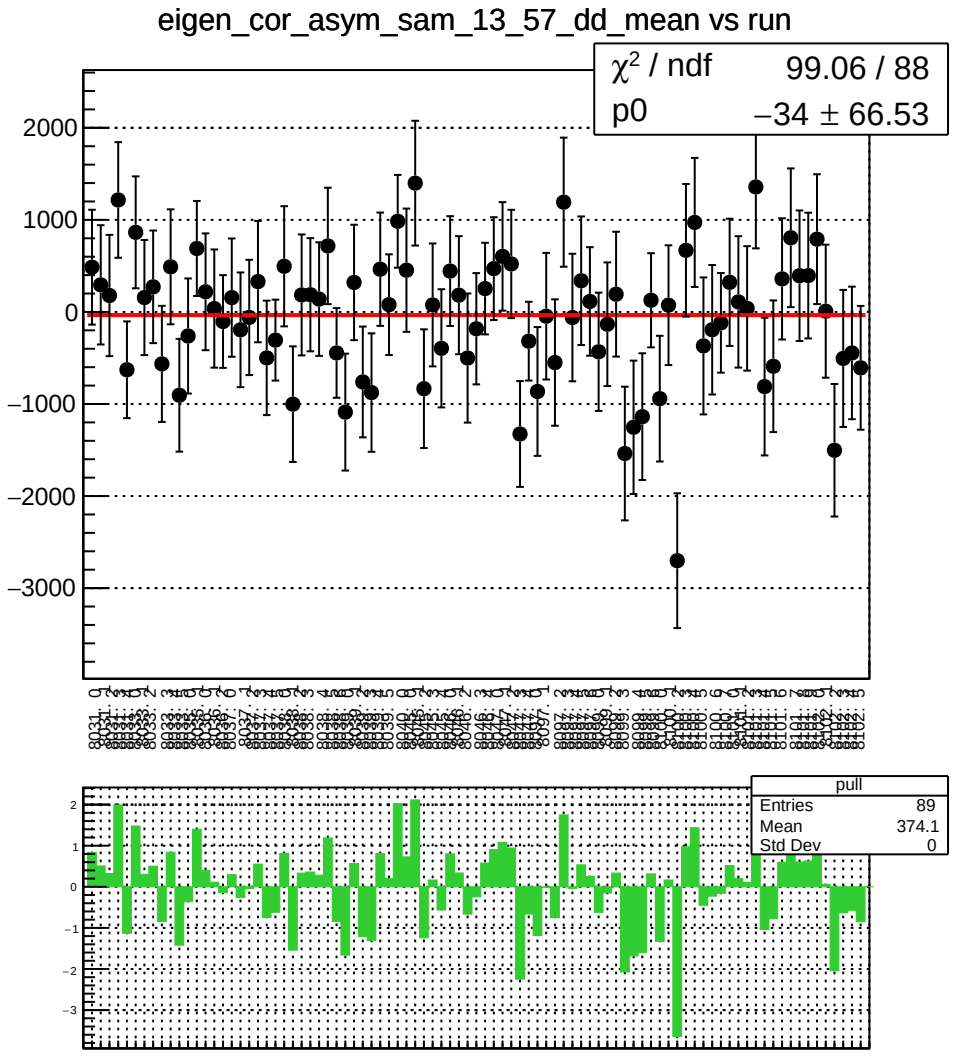
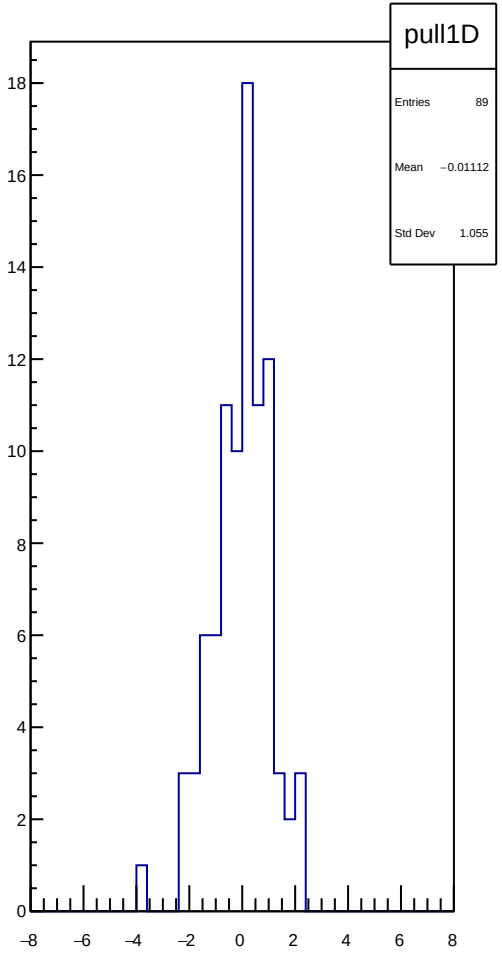
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 2.908e+04 / 88
p0 567.4 ± 0.4329
750
700
650
600
550
500
450


eigen_cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 99.06 / 88
p0 −34 ± 66.53
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean 374.1
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 89
Mean −0.01112
Std Dev 1.055
18
16
14
12
10
8
6
4
2
0
−8
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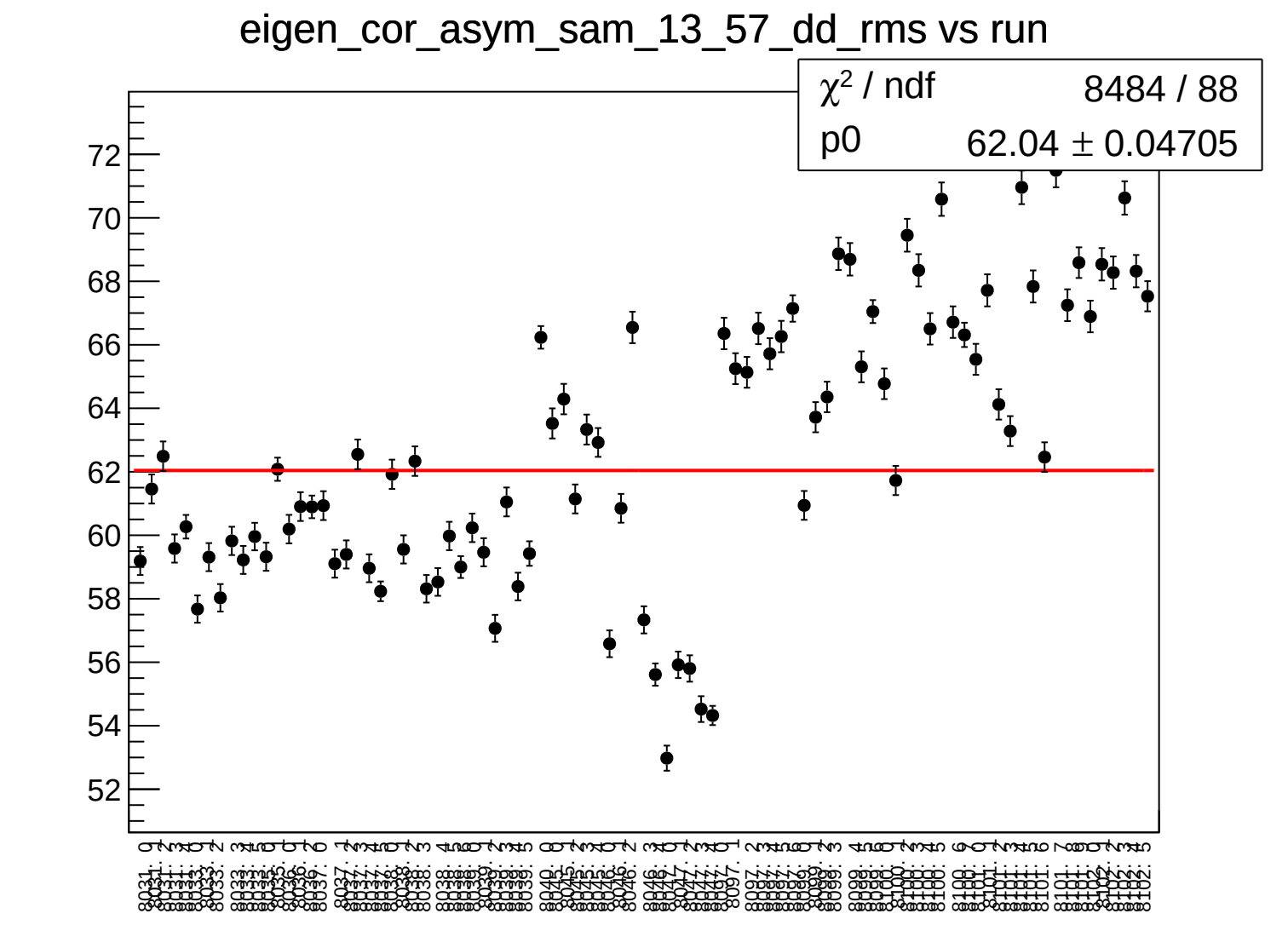
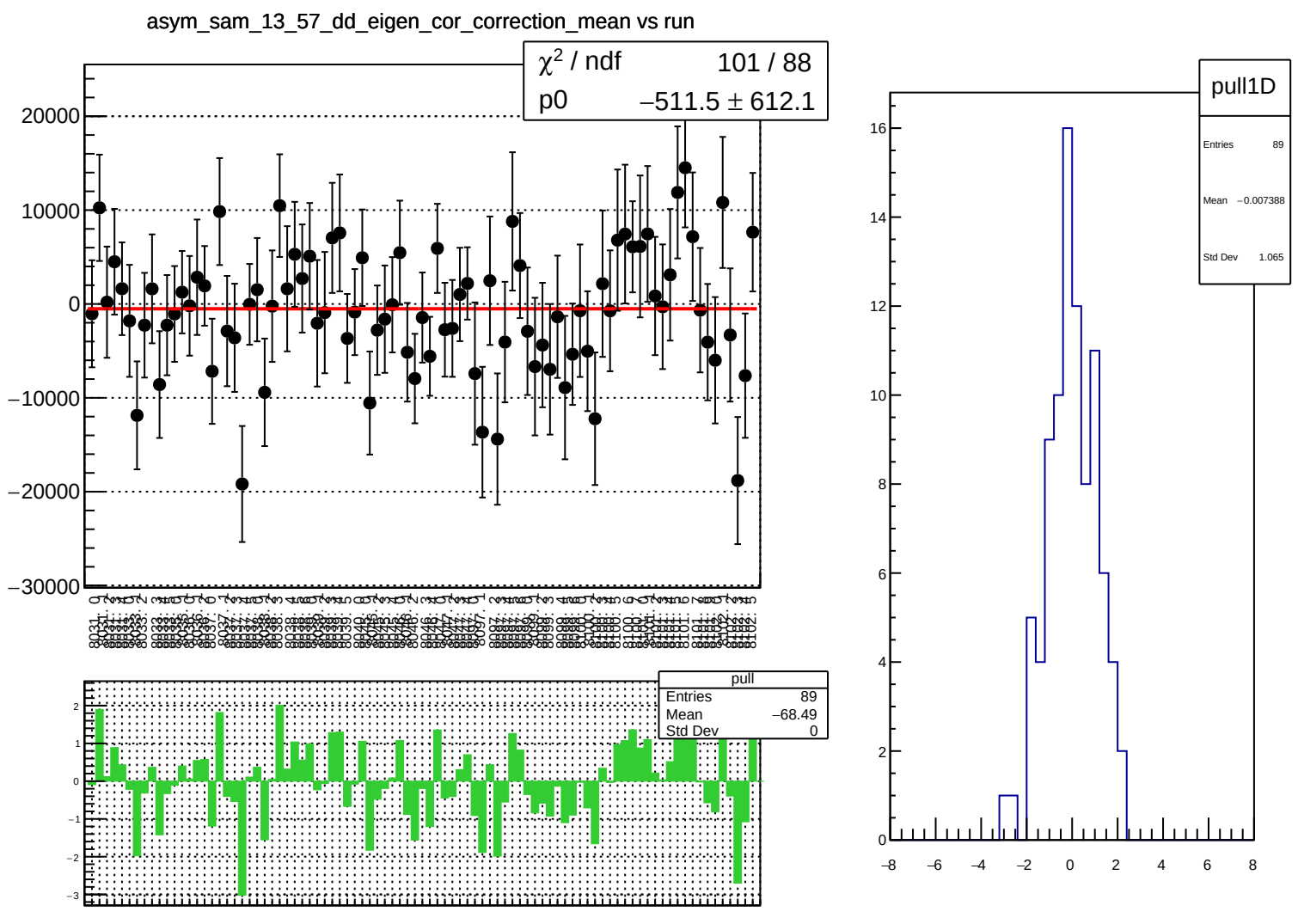
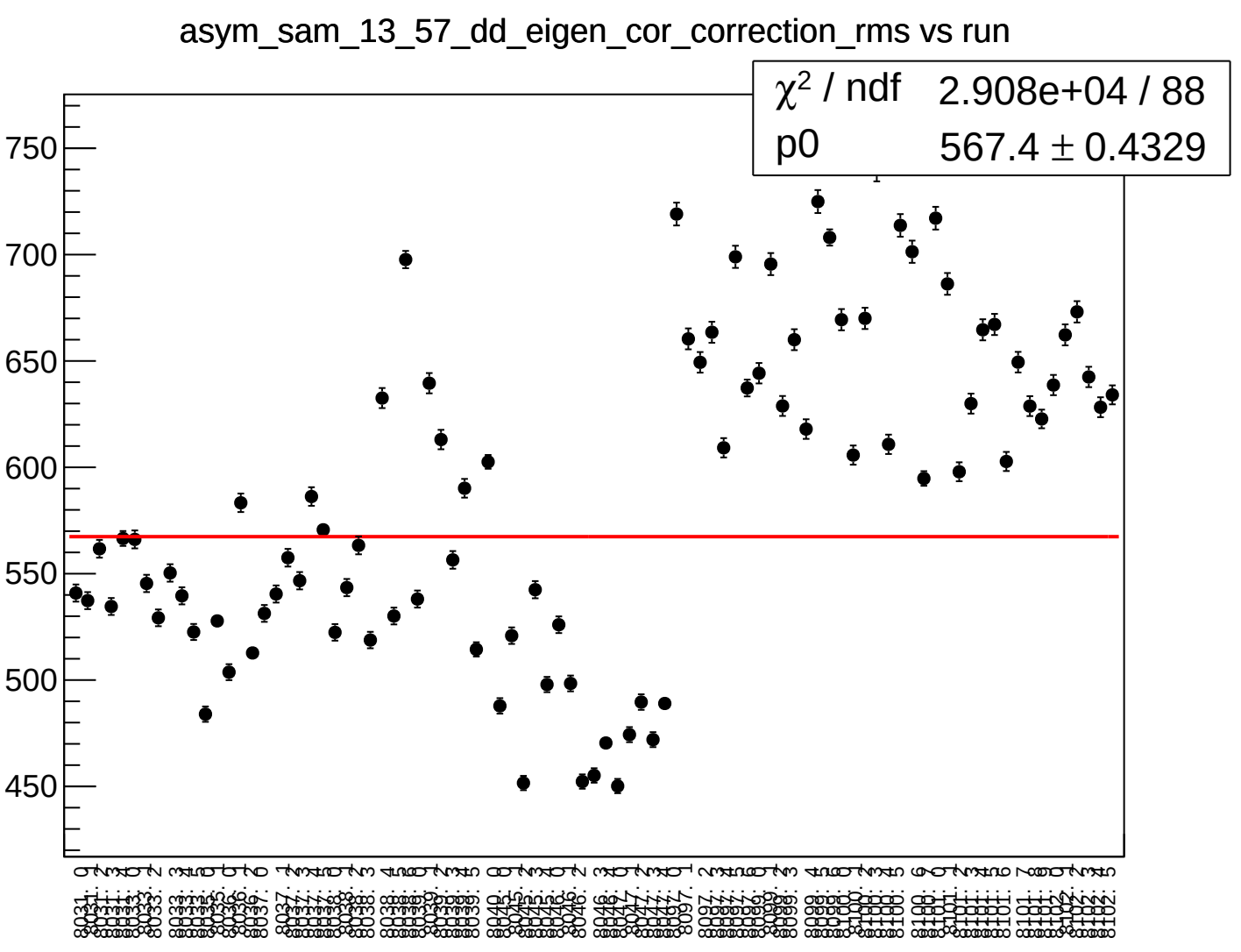
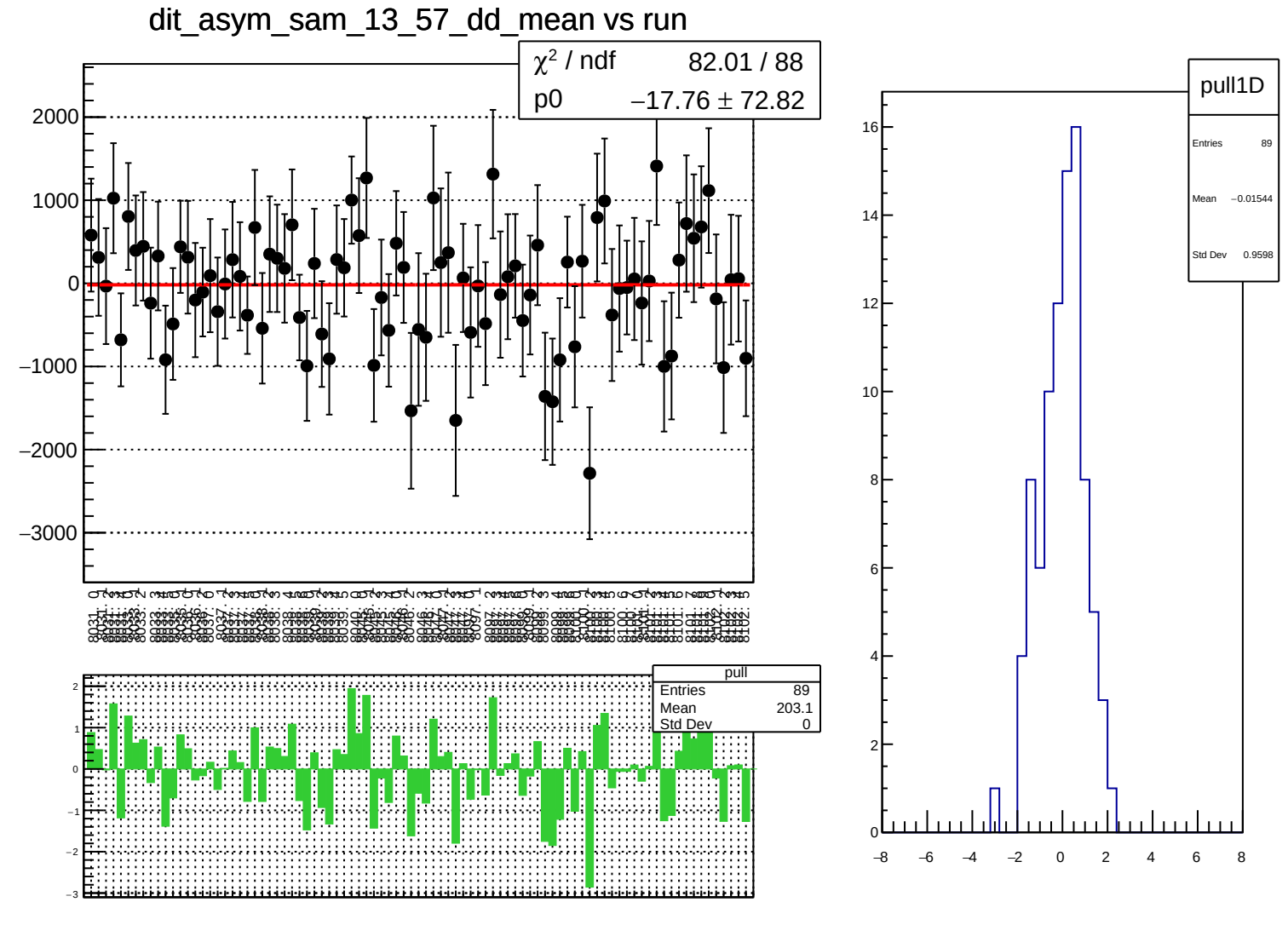
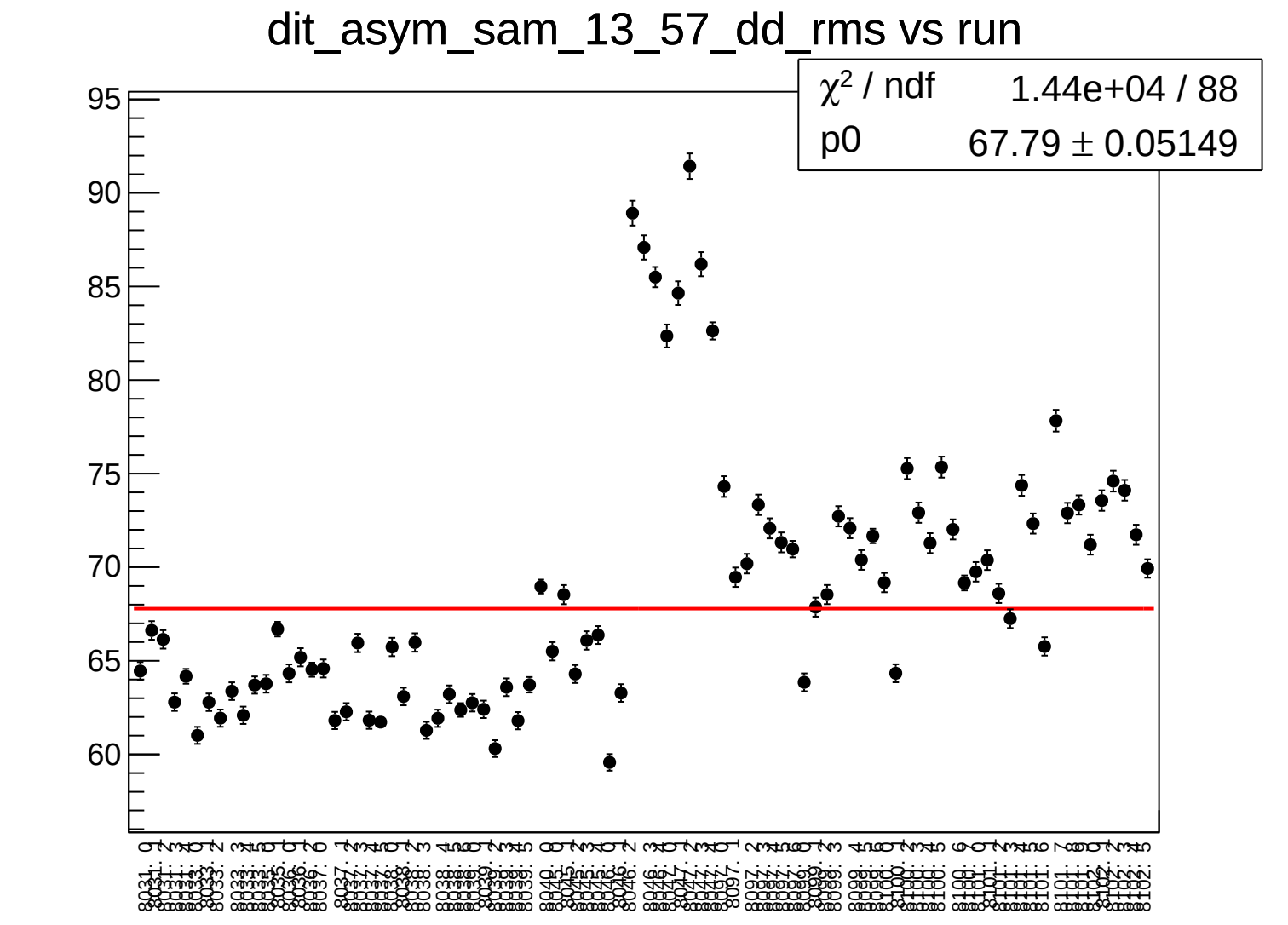
0
2
4
6
8

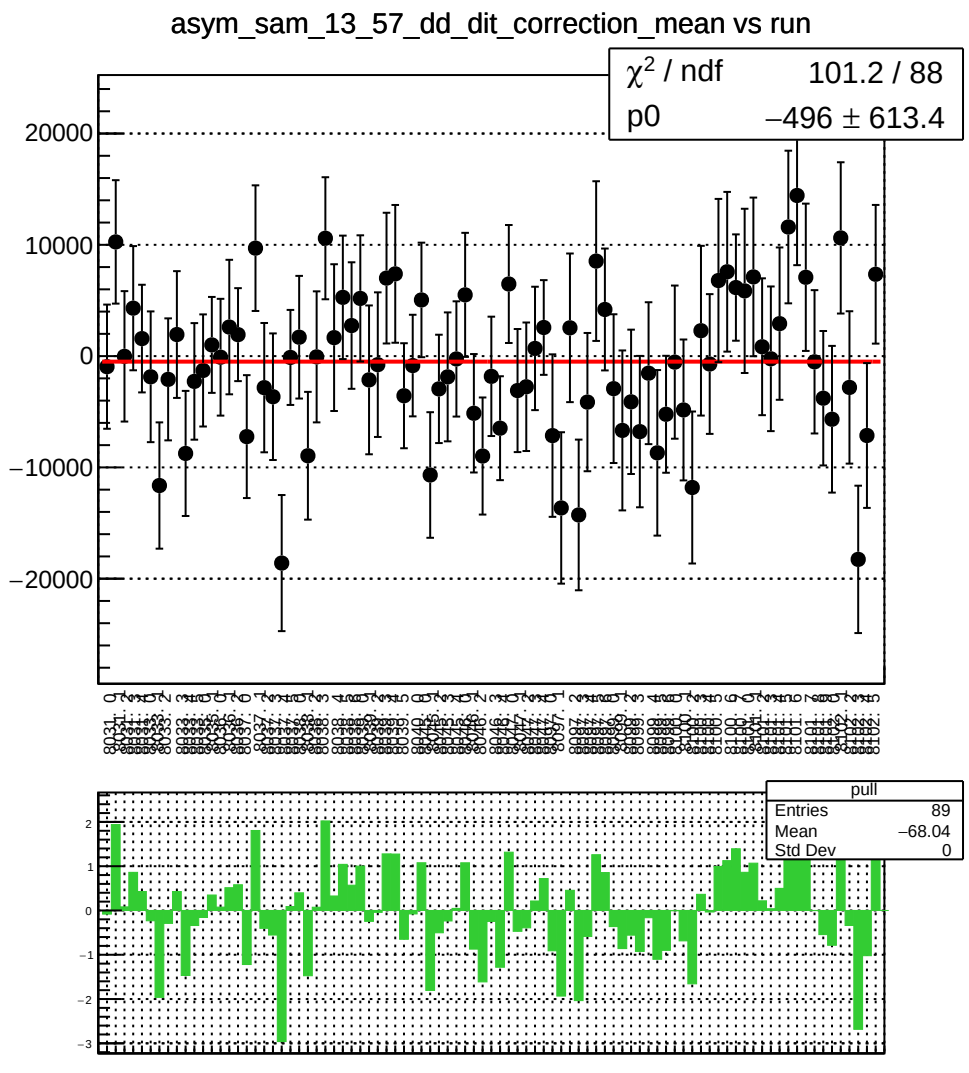

eigen_cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 8484 / 88
p0 62.04 ± 0.04705
72
70
68
66
64
62
60
58
56
54
52

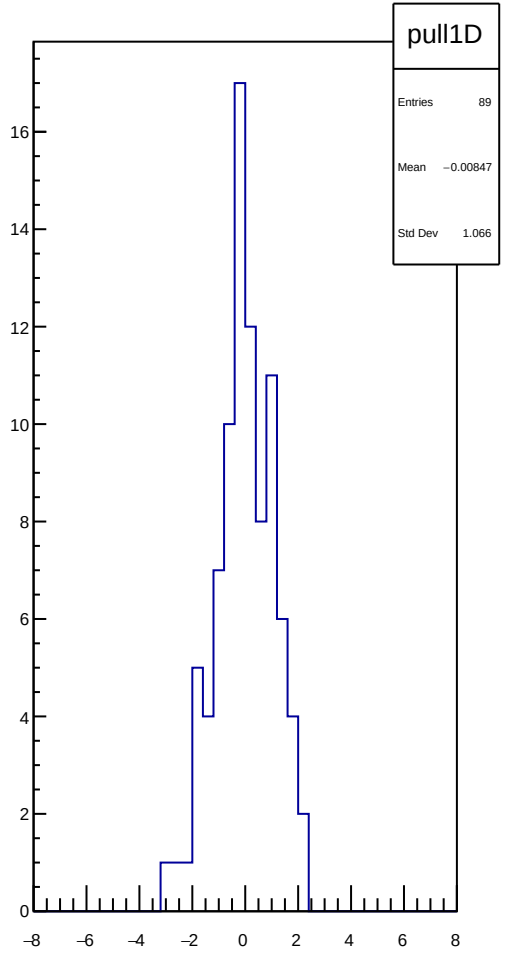

asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 101 / 88
p0 −511.5 ± 612.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −68.49
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.007388
Std Dev 1.065
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.908e+04 / 88
p0 567.4 ± 0.4329
750
700
650
600
550
500
450


dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 82.01 / 88
p0 −17.76 ± 72.82
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean 203.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.01544
Std Dev 0.9598
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_13_57_dd_rms vs run
$\chi^2$ / ndf 1.44e+04 / 88
p0 67.79 ± 0.05149
95
90
85
80
75
70
65
60


asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 101.2 / 88
p0 −496 ± 613.4
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −68.04
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 89
Mean −0.00847
Std Dev 1.066
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14
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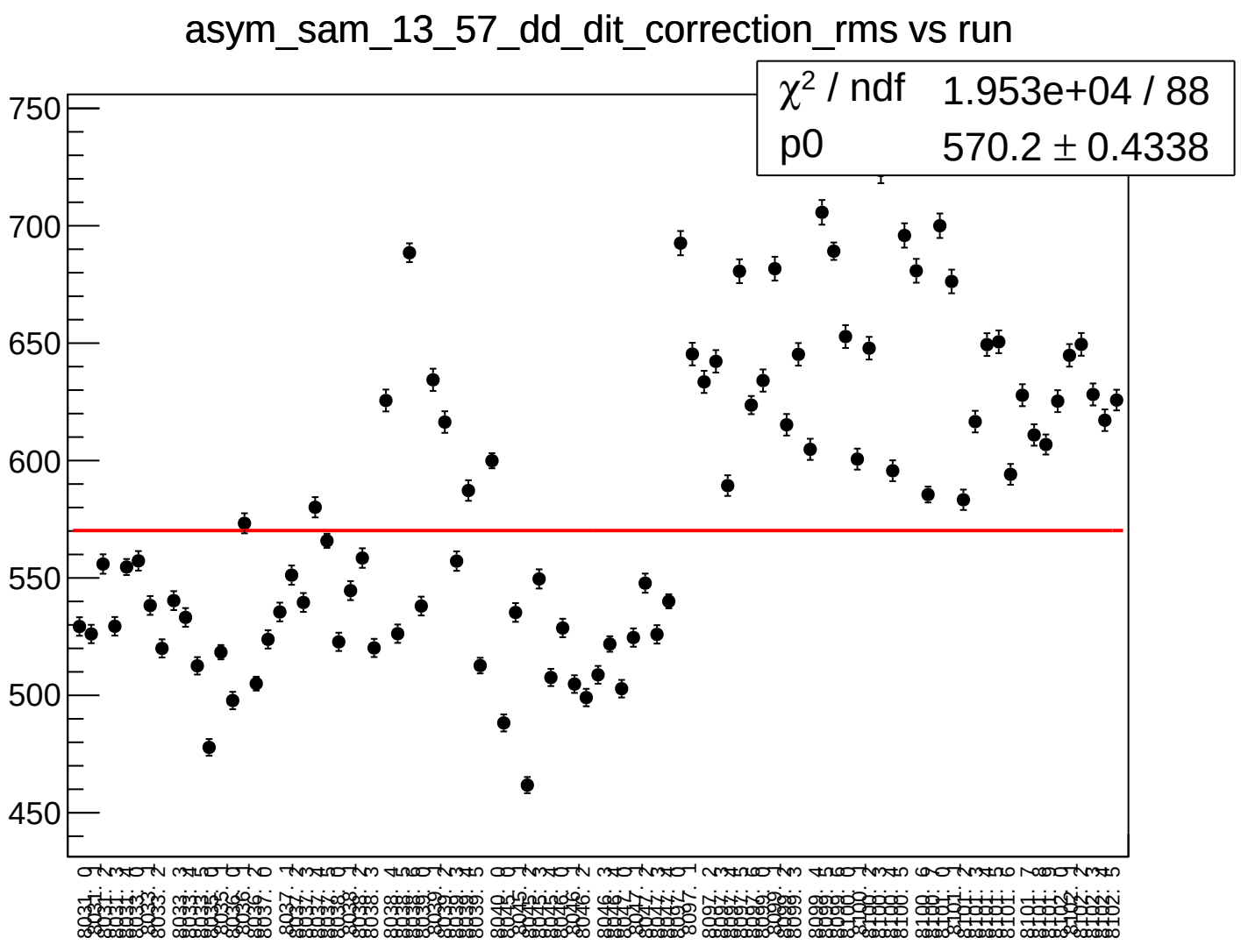
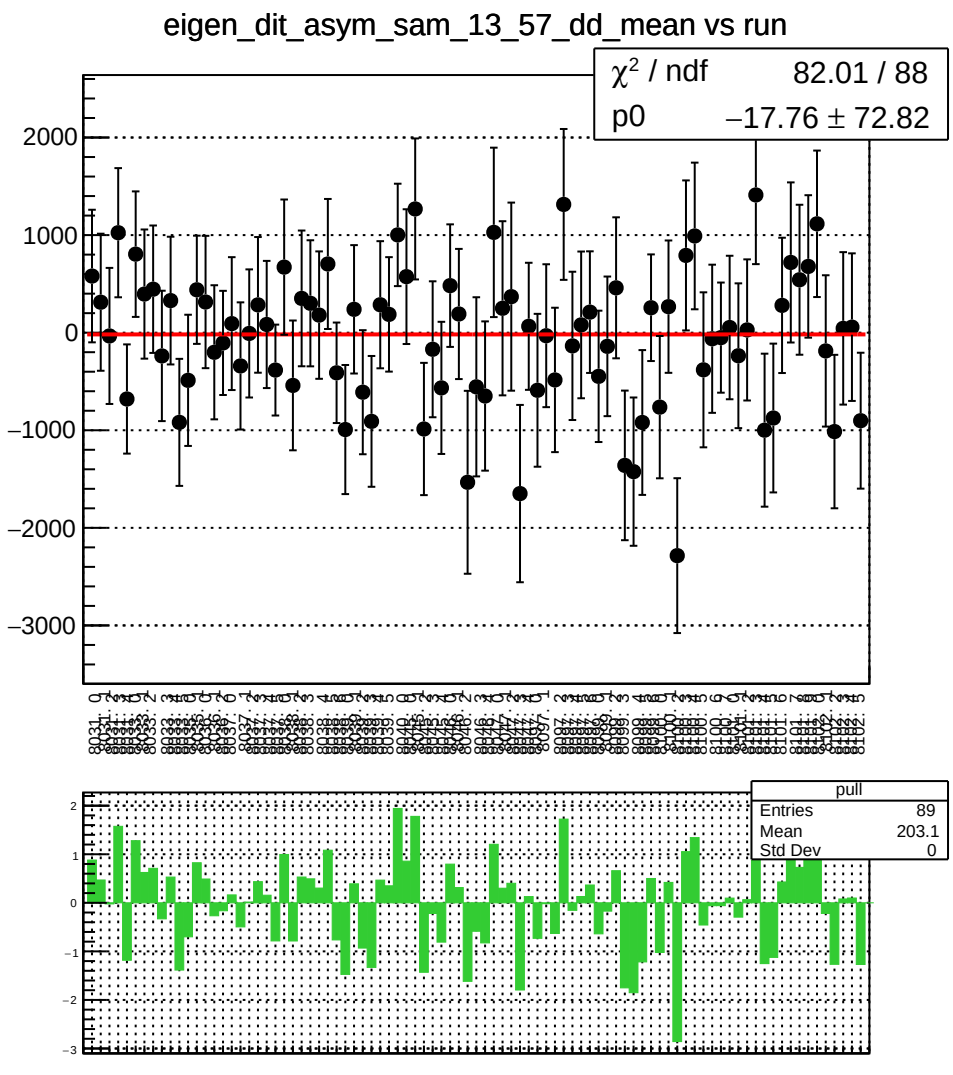
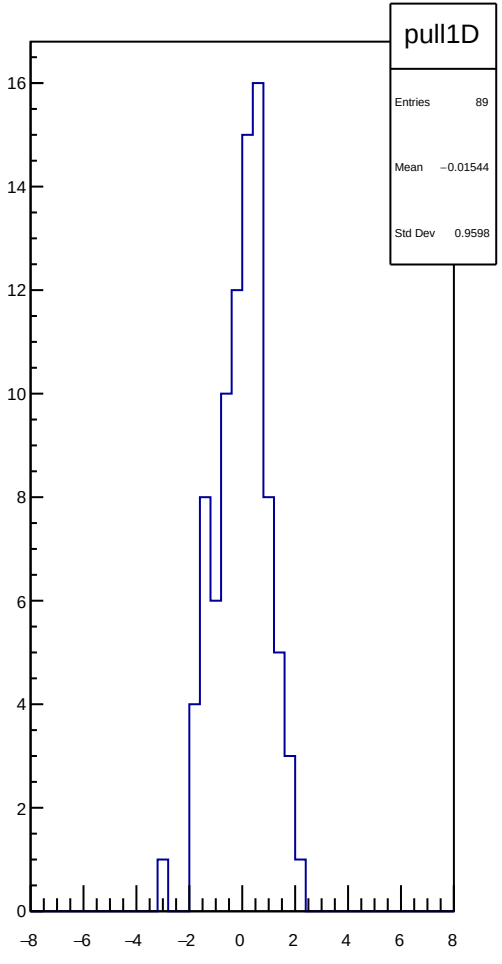
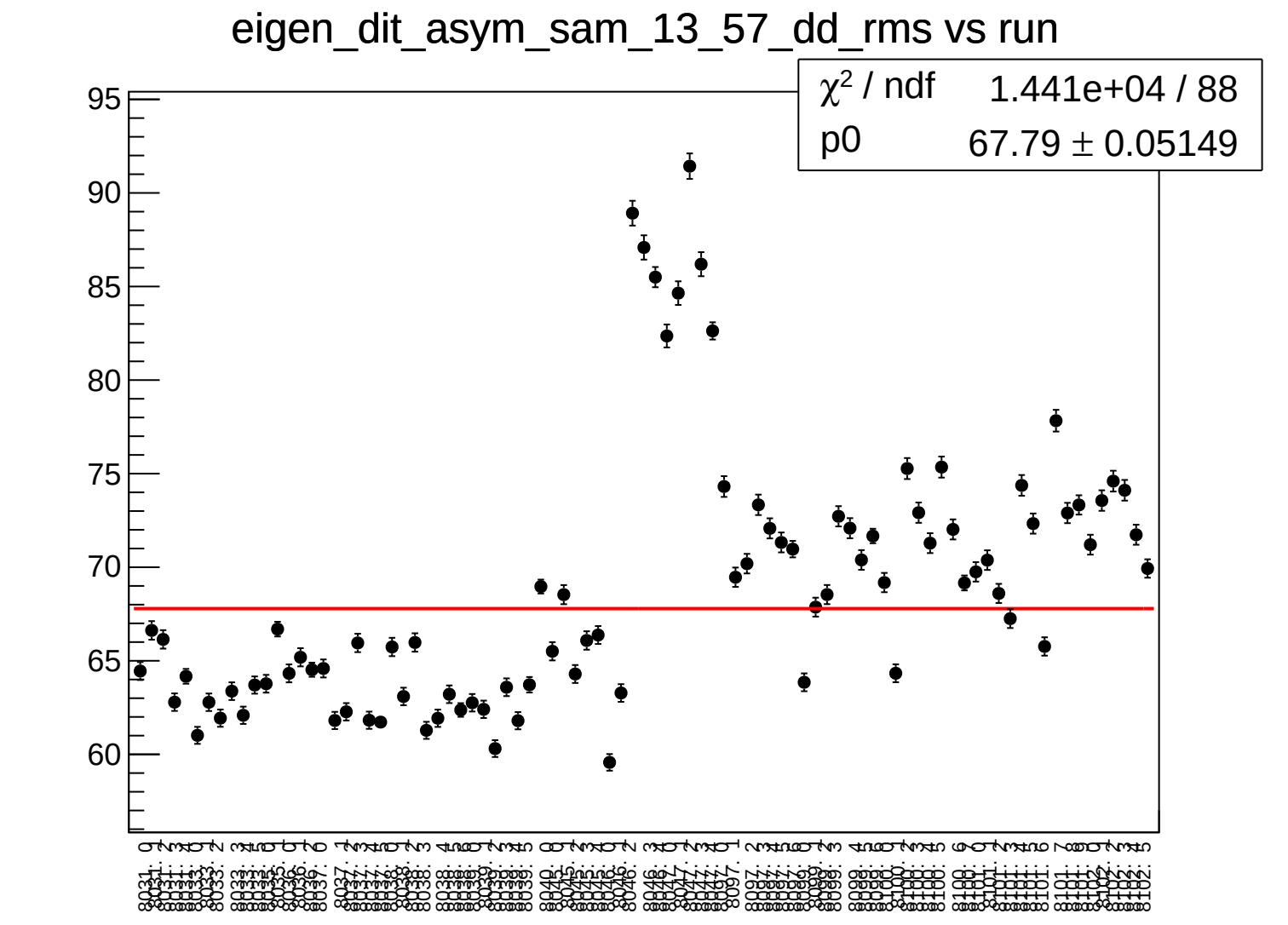
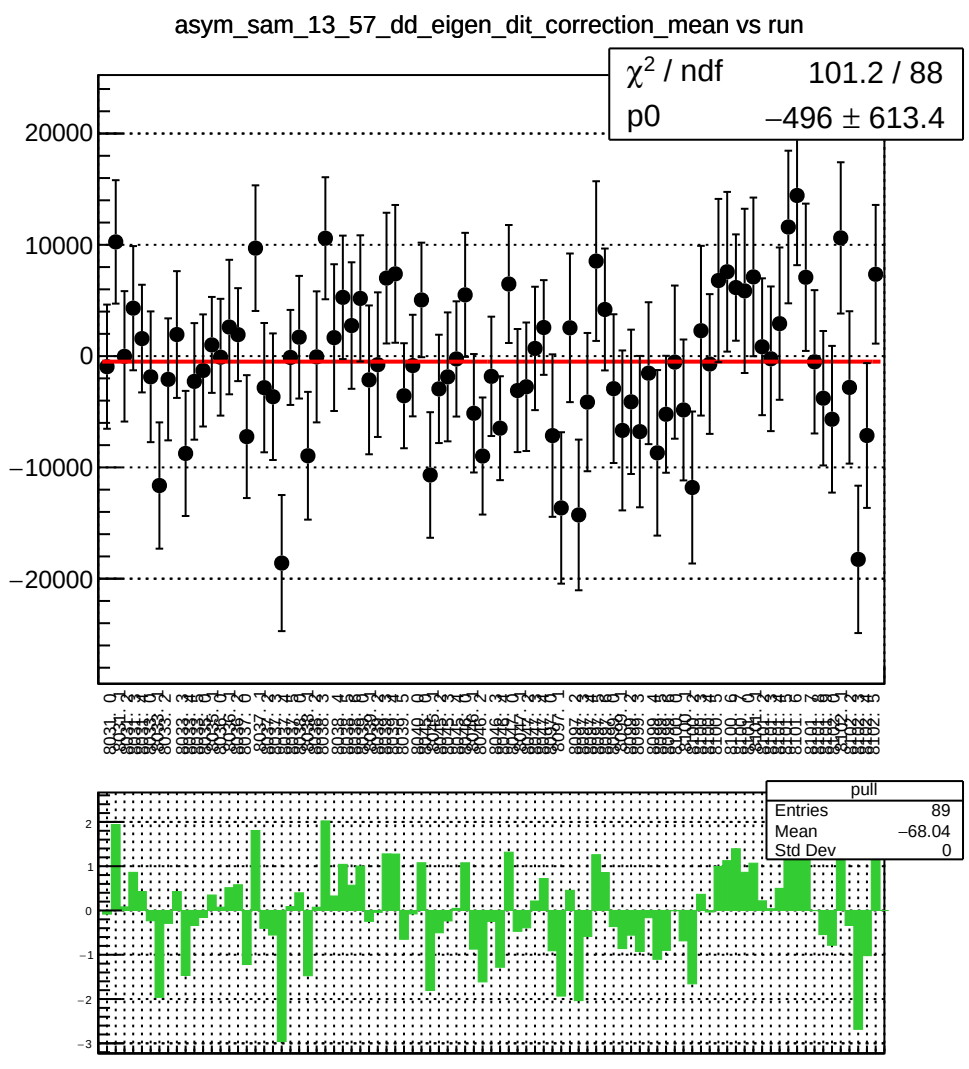
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

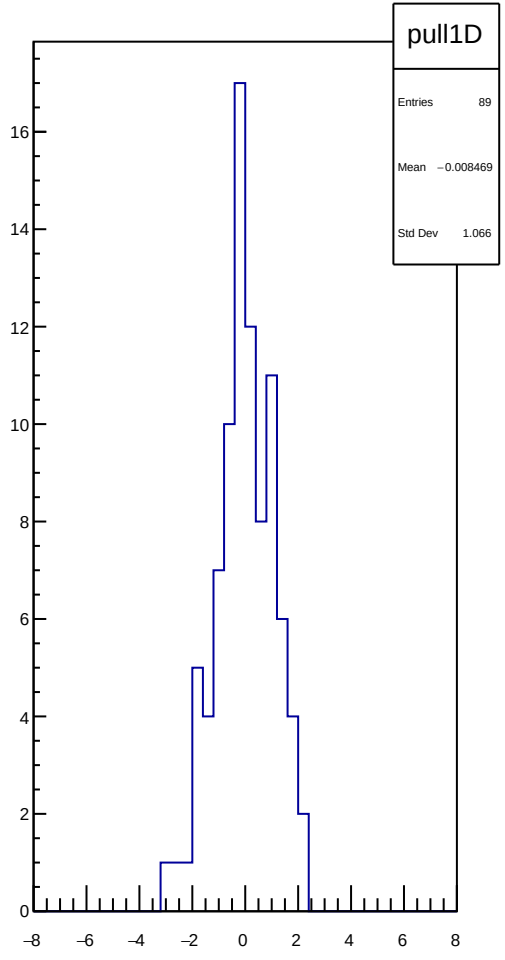

asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 1.953e+04 / 88
p0 570.2 ± 0.4338
750
700
650
600
550
500
450

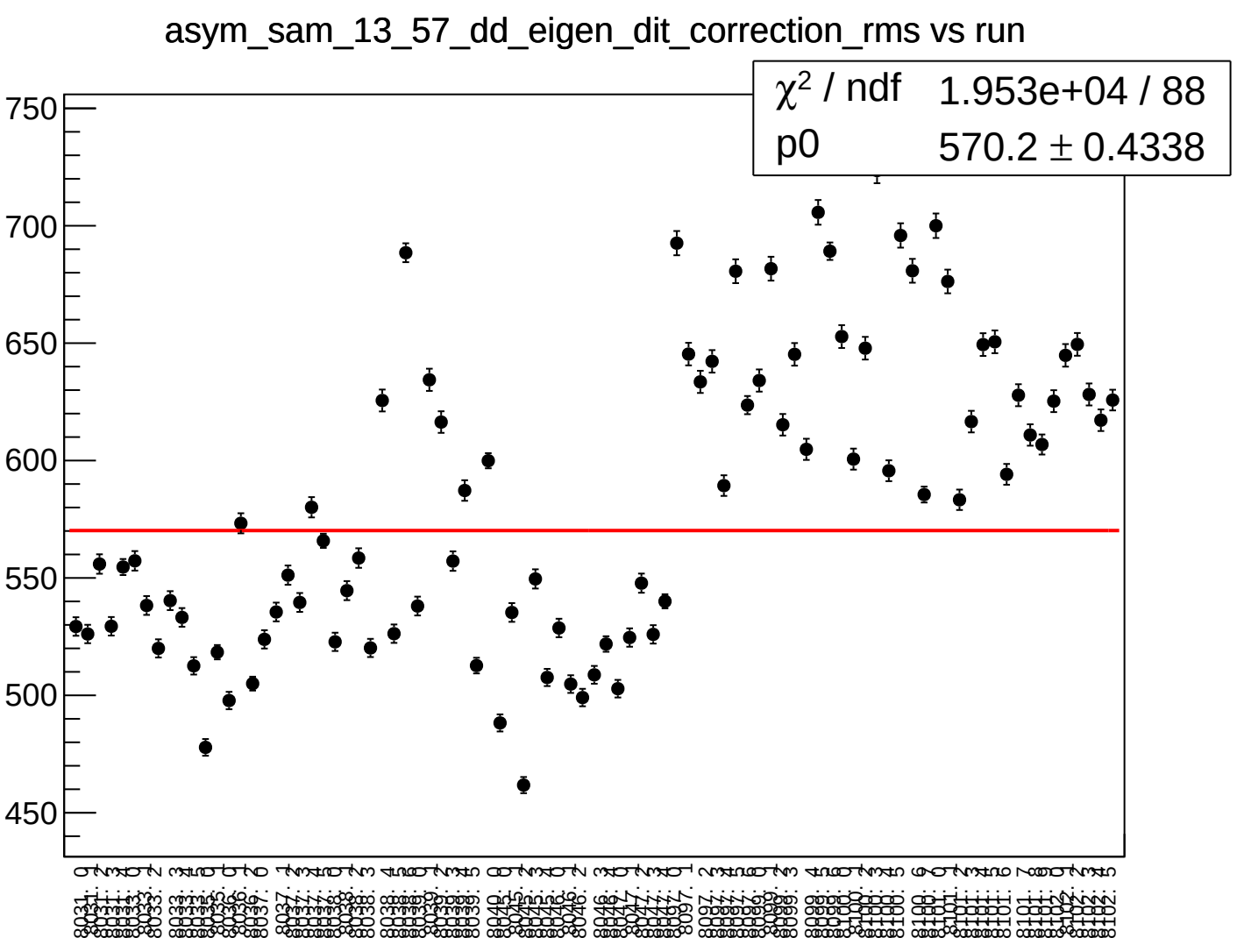

eigen_dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 82.01 / 88
p0 −17.76 ± 72.82
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean 203.1
Std Dev 0
2
1
0
−1
−2
−3

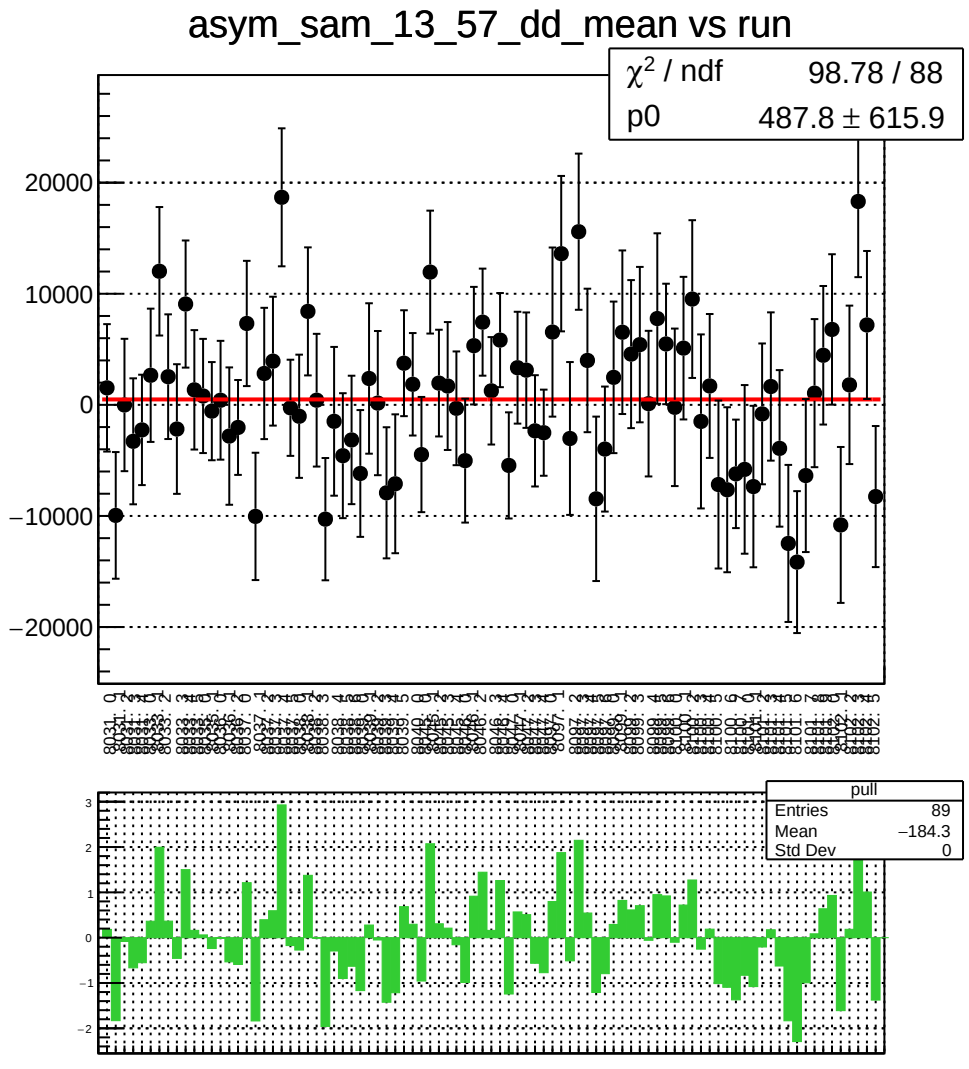

pull1D
Entries 89
Mean −0.01544
Std Dev 0.9598
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

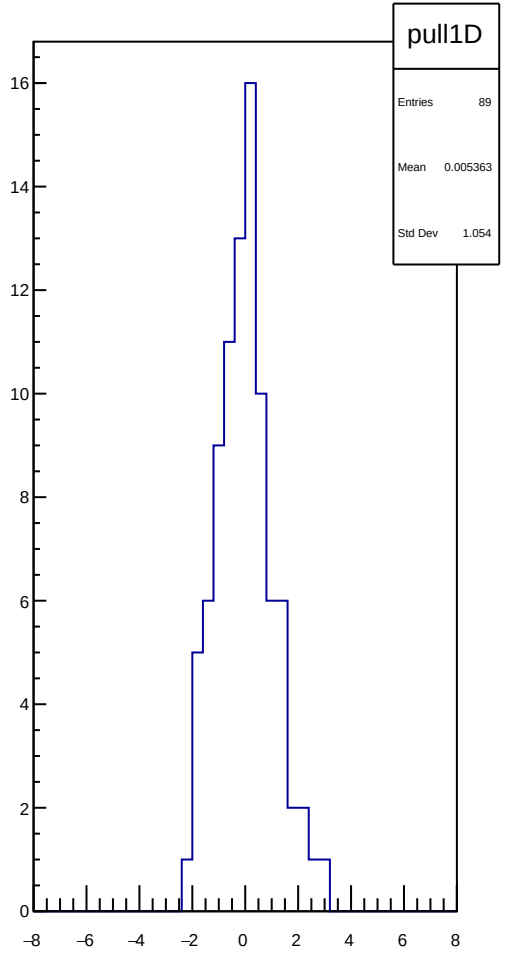

eigen_dit_asym_sam_13_57_dd_rms vs run
$\chi^2$ / ndf 1.441e+04 / 88
p0 67.79 ± 0.05149
95
90
85
80
75
70
65
60

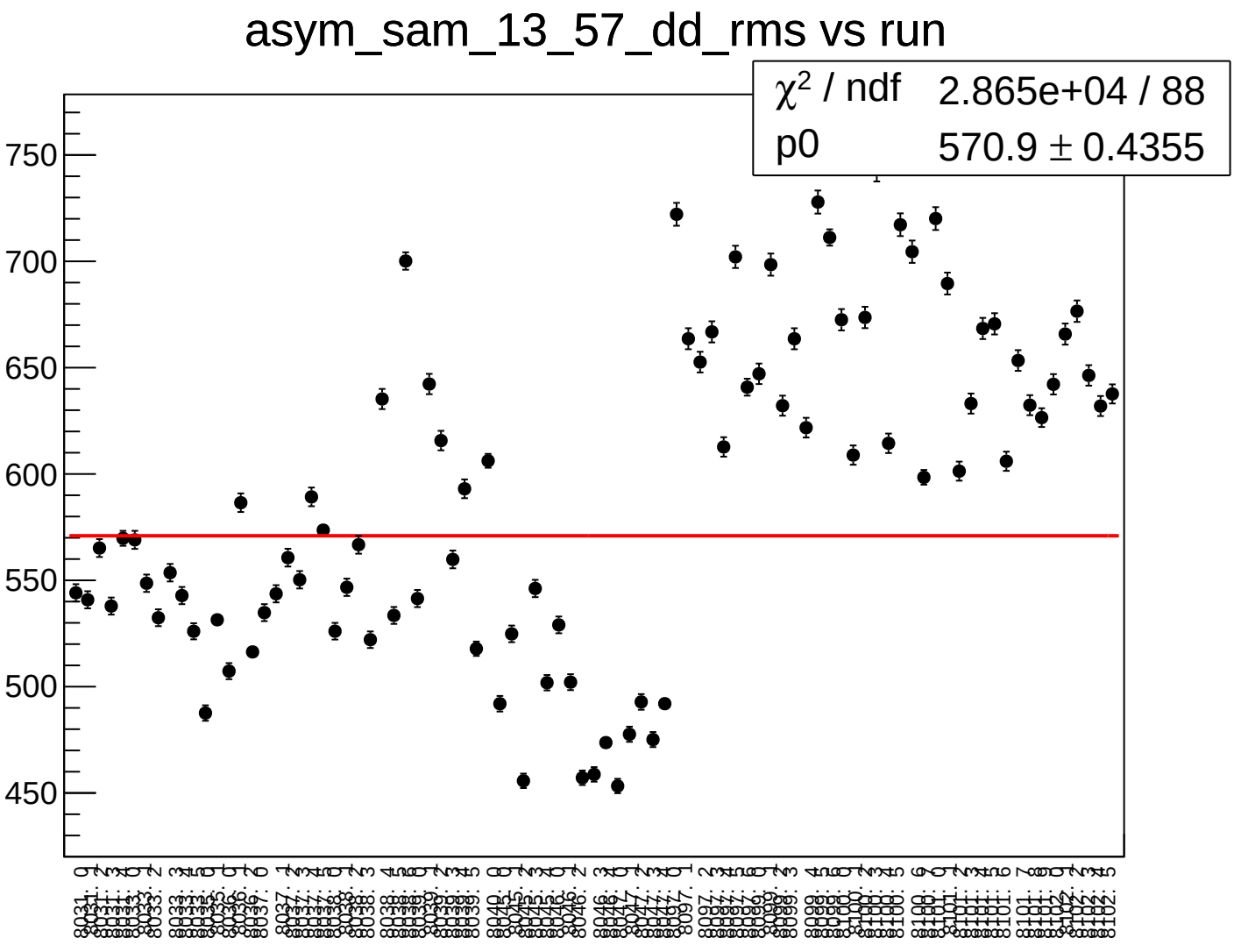

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 101.2 / 88
p0 −496 ± 613.4
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −68.04
Std Dev 0
2
1
0
−1
−2
−3

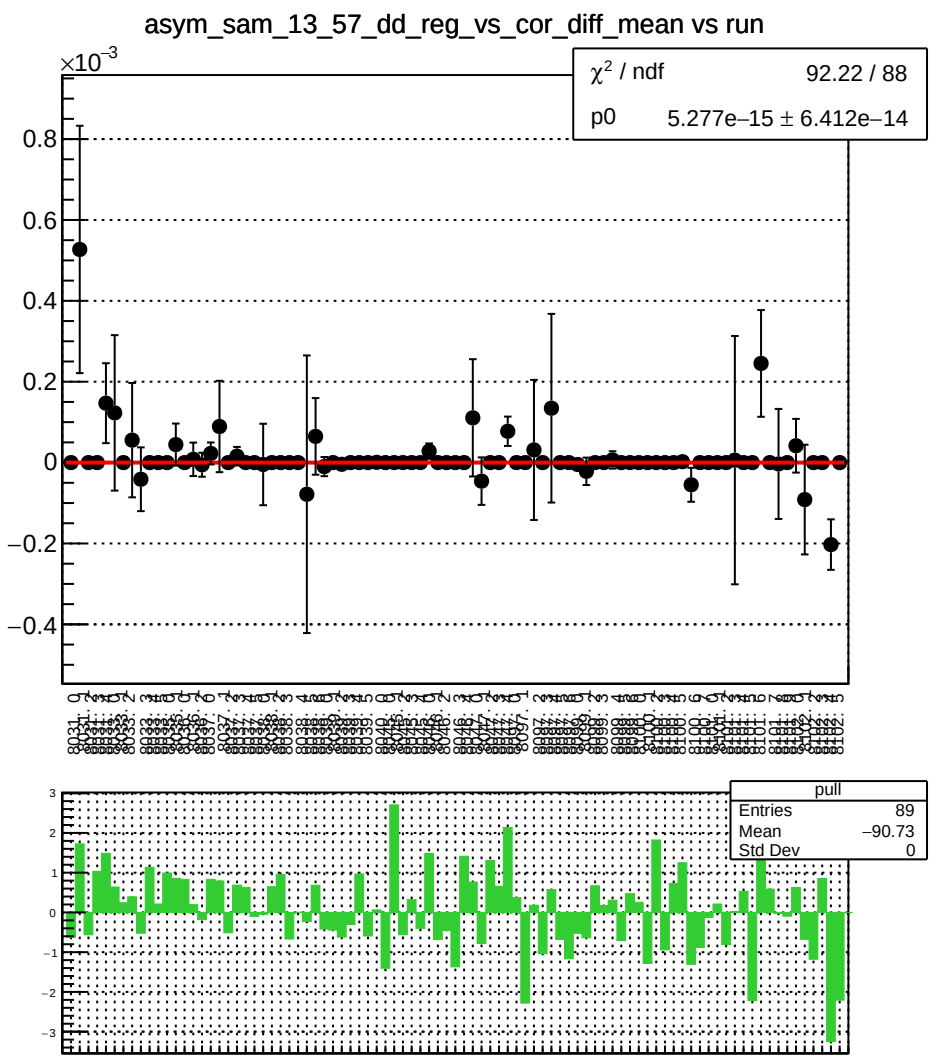

pull1D
Entries 89
Mean −0.008469
Std Dev 1.066
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

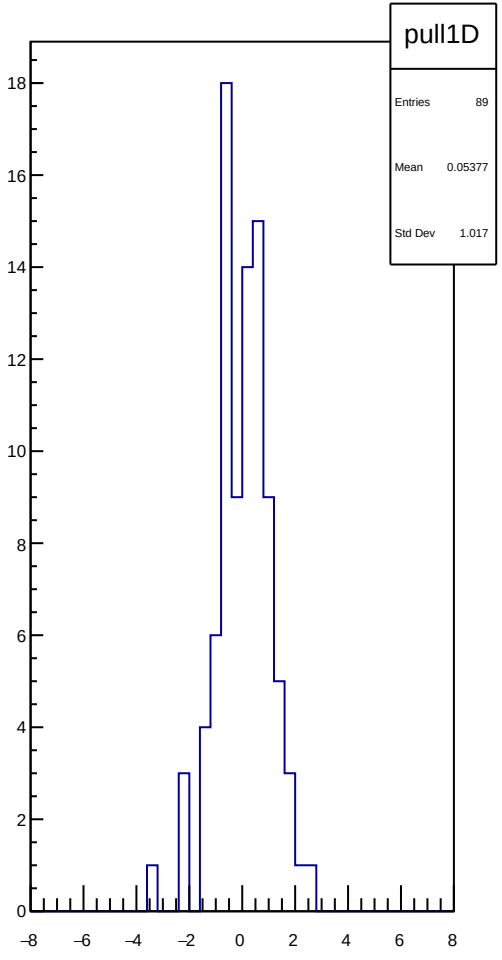

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.953e+04 / 88
p0 570.2 ± 0.4338
750
700
650
600
550
500
450

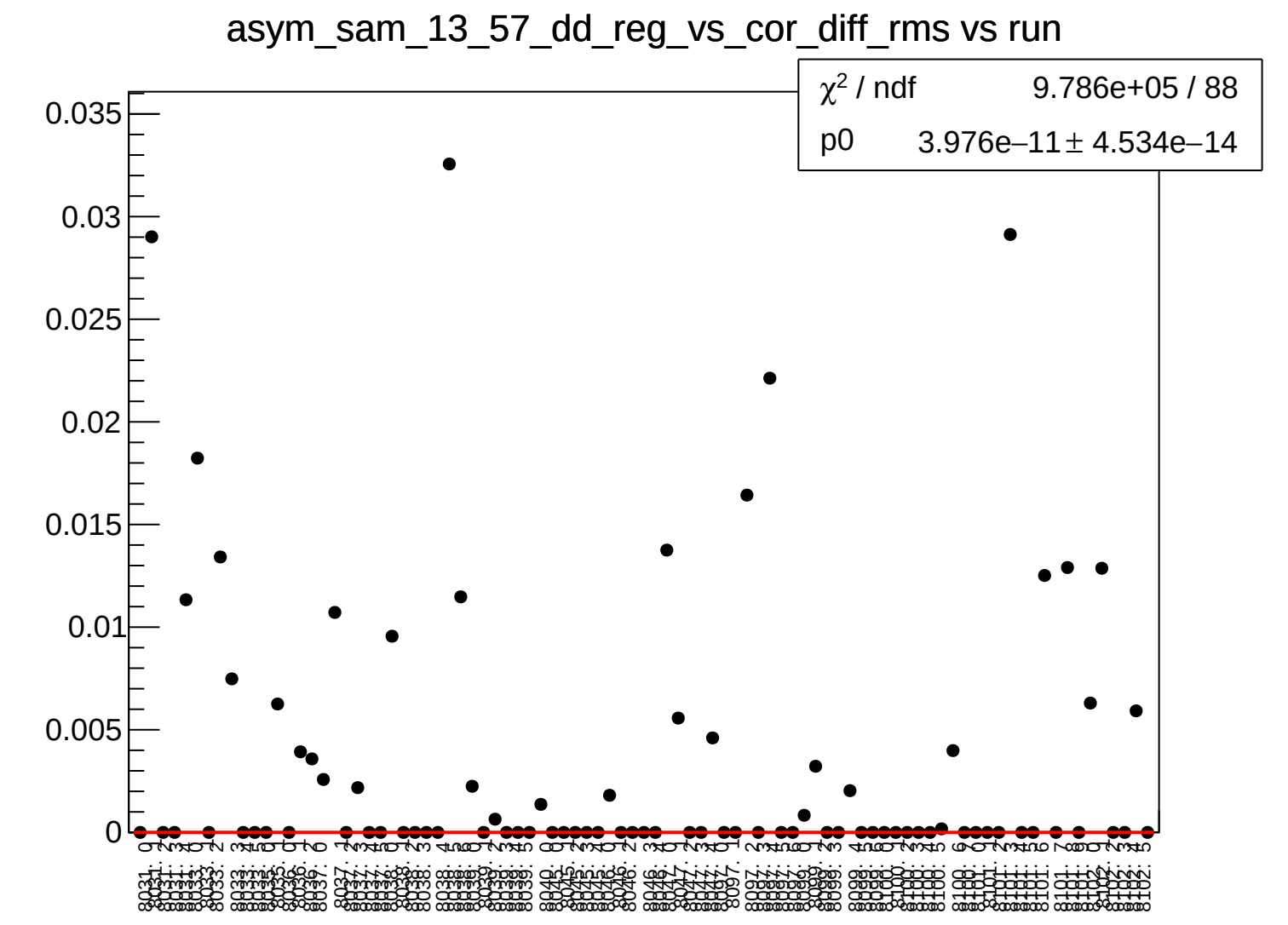

asym_sam_13_57_dd_mean vs run
χ² / ndf 98.78 / 88
p0 487.8 ± 615.9
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −184.3
Std Dev 0
3
2
1
0
−1
−2

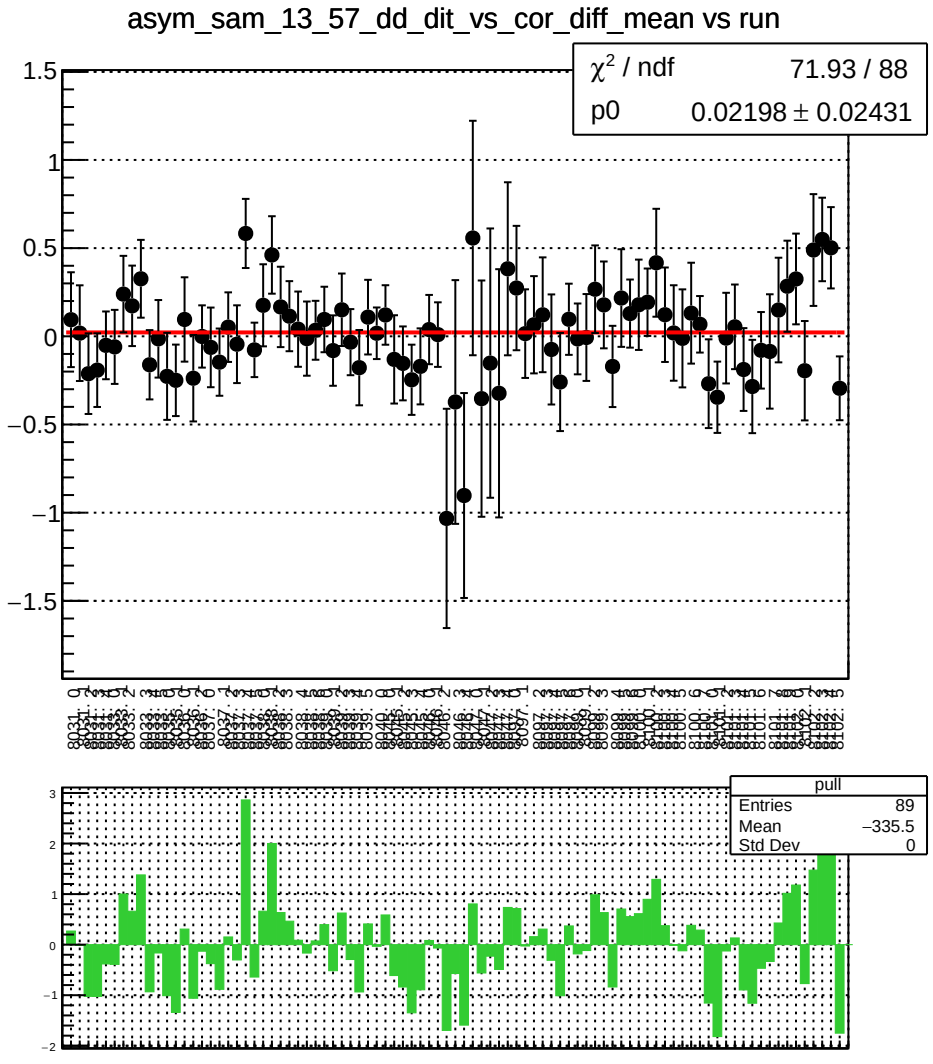

pull1D
Entries 89
Mean 0.005363
Std Dev 1.054
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

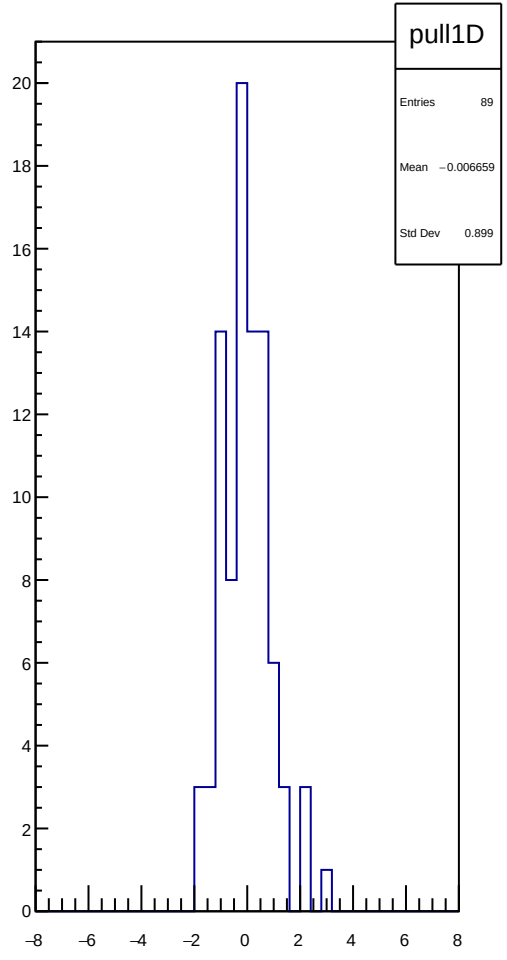

asym_sam_13_57_dd_rms vs run
χ² / ndf 2.865e+04 / 88
p0 570.9 ± 0.4355
750
700
650
600
550
500
450

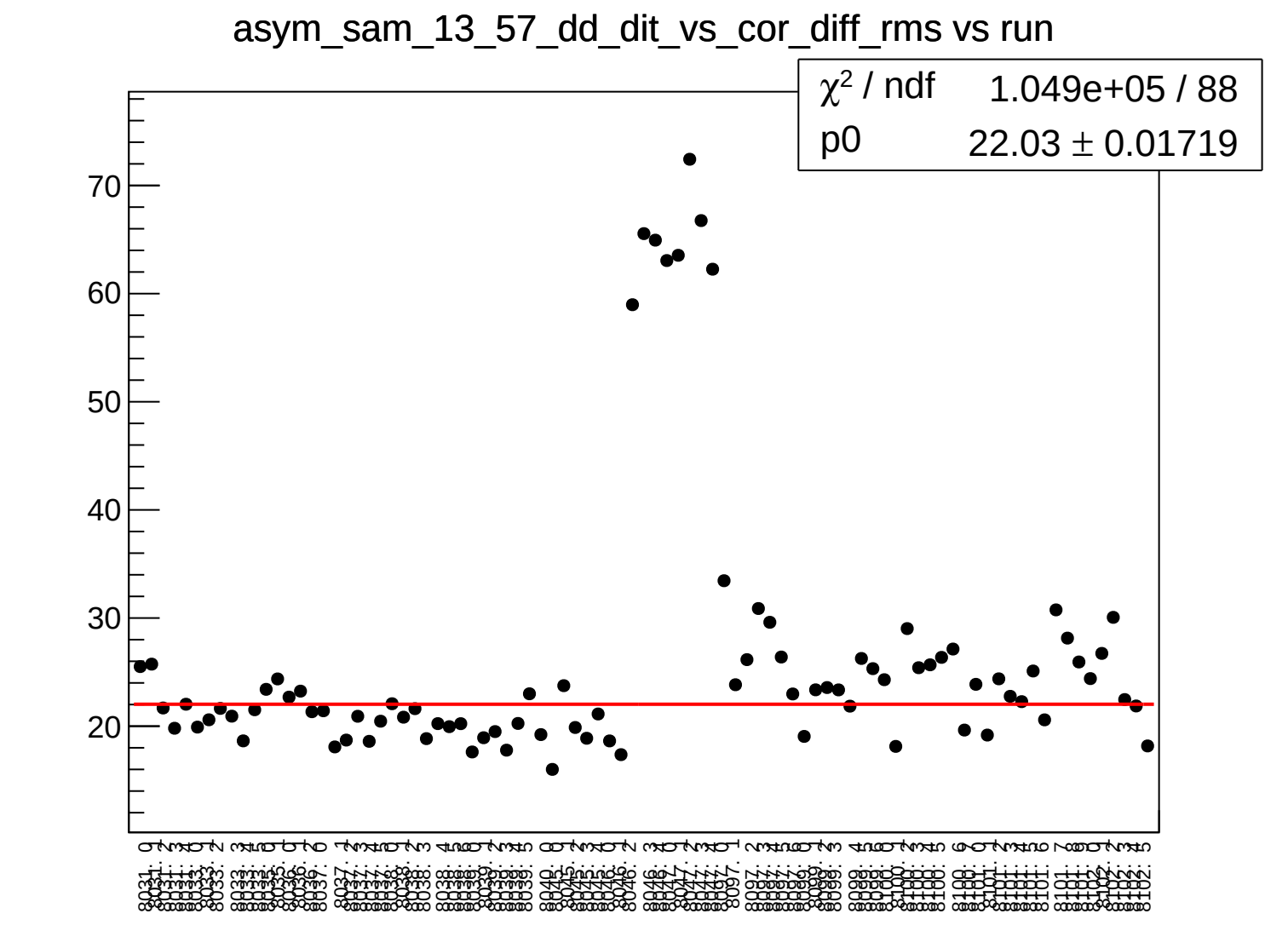

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 92.22 / 88
p0 5.277e−15 ± 6.412e−14
pull
Entries 89
Mean −90.73
Std Dev 0

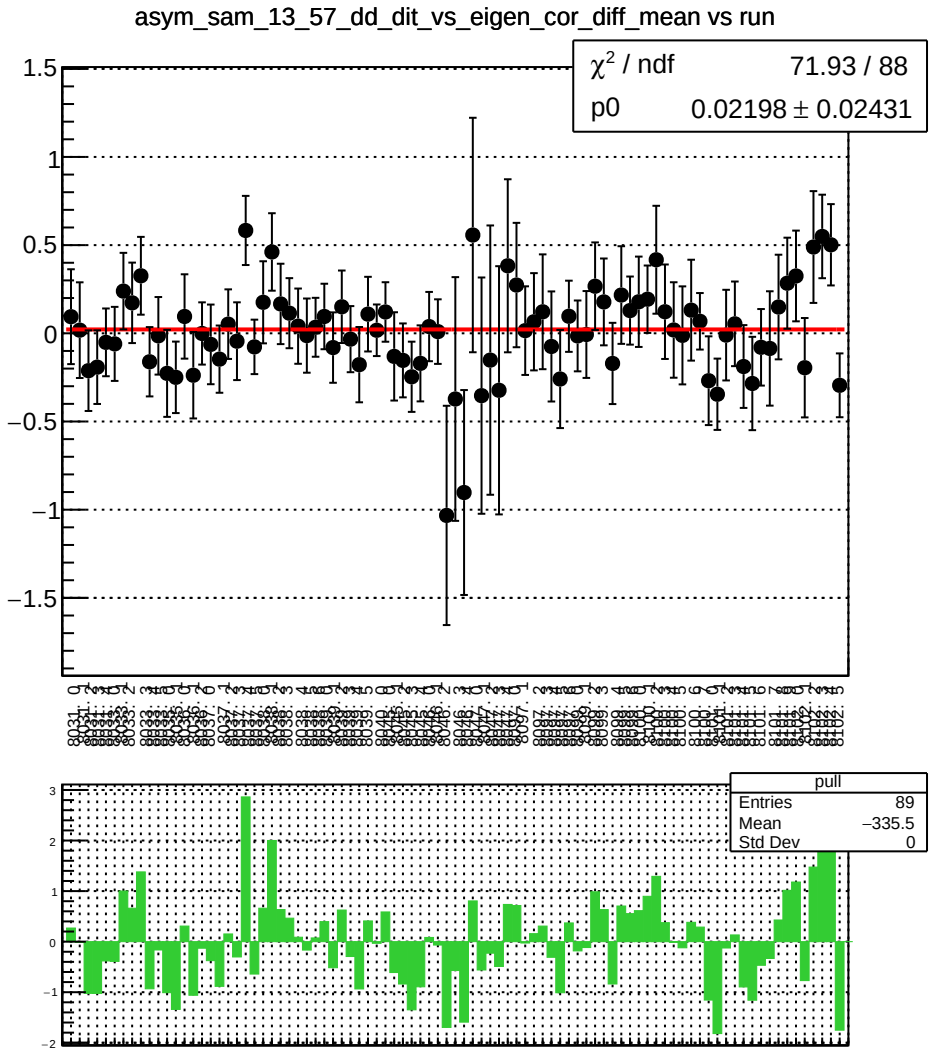

pull1D
Entries 89
Mean 0.05377
Std Dev 1.017

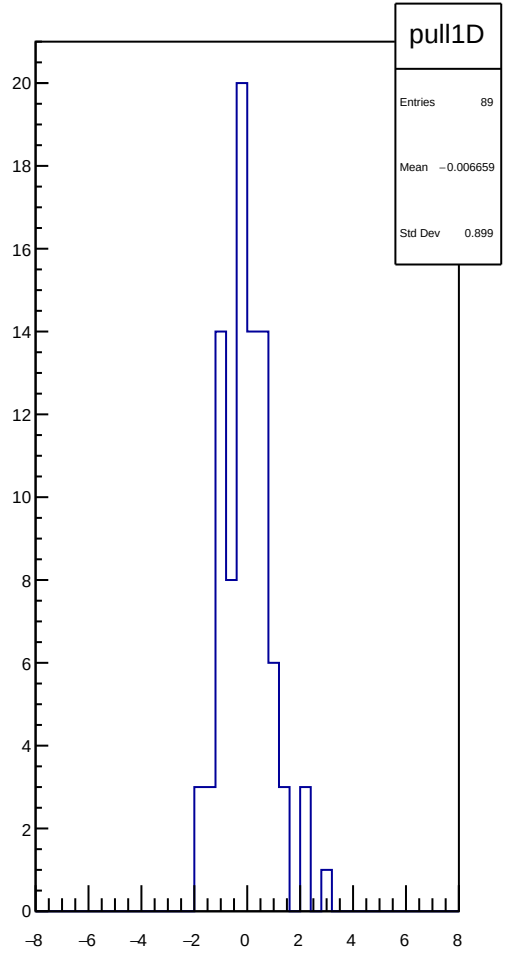

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.786e+05 / 88
p0 3.976e−11 ± 4.534e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

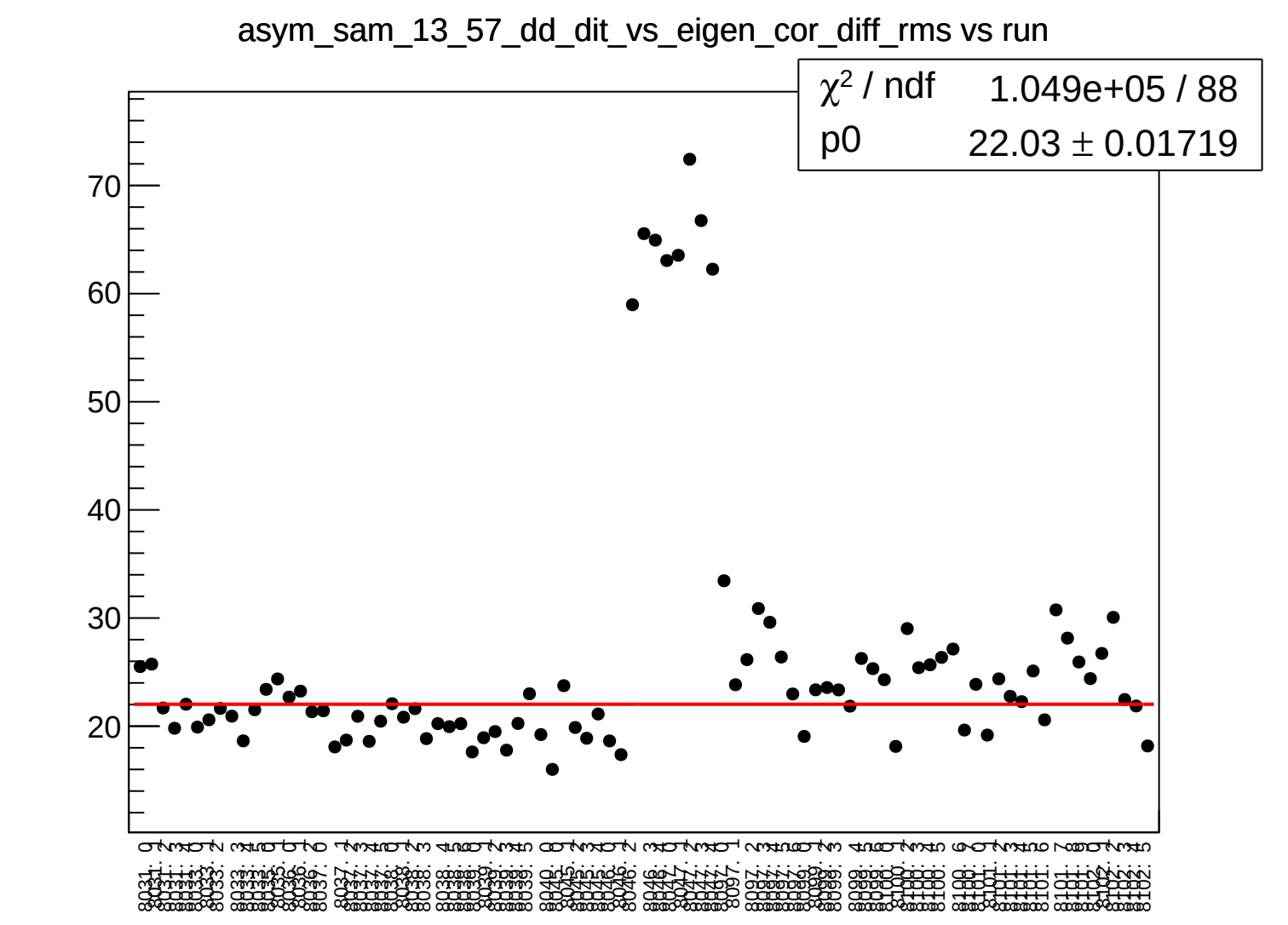

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 71.93 / 88
p0 0.02198 ± 0.02431
pull
Entries 89
Mean −335.5
Std Dev 0

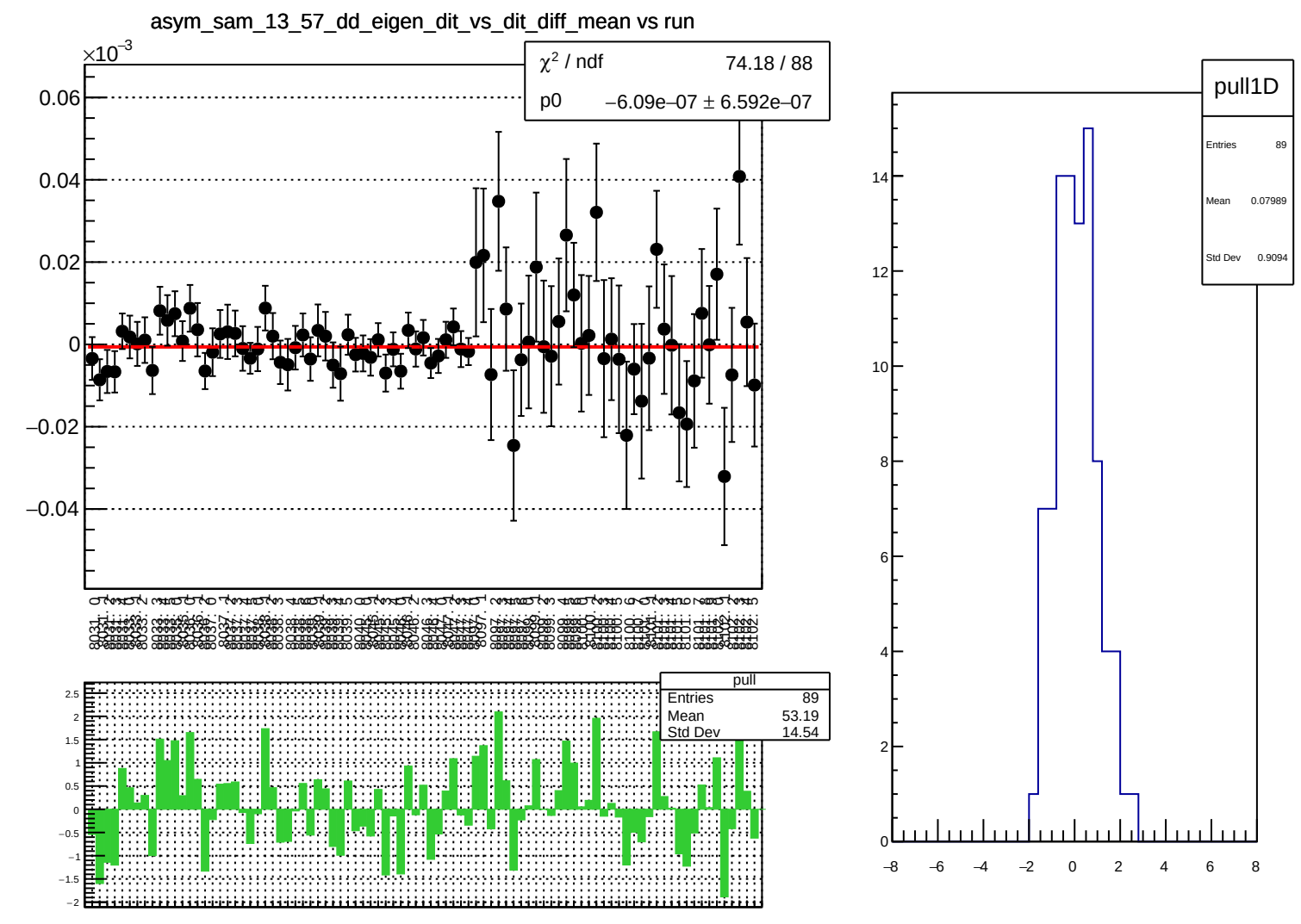

pull1D
Entries 89
Mean −0.006659
Std Dev 0.899

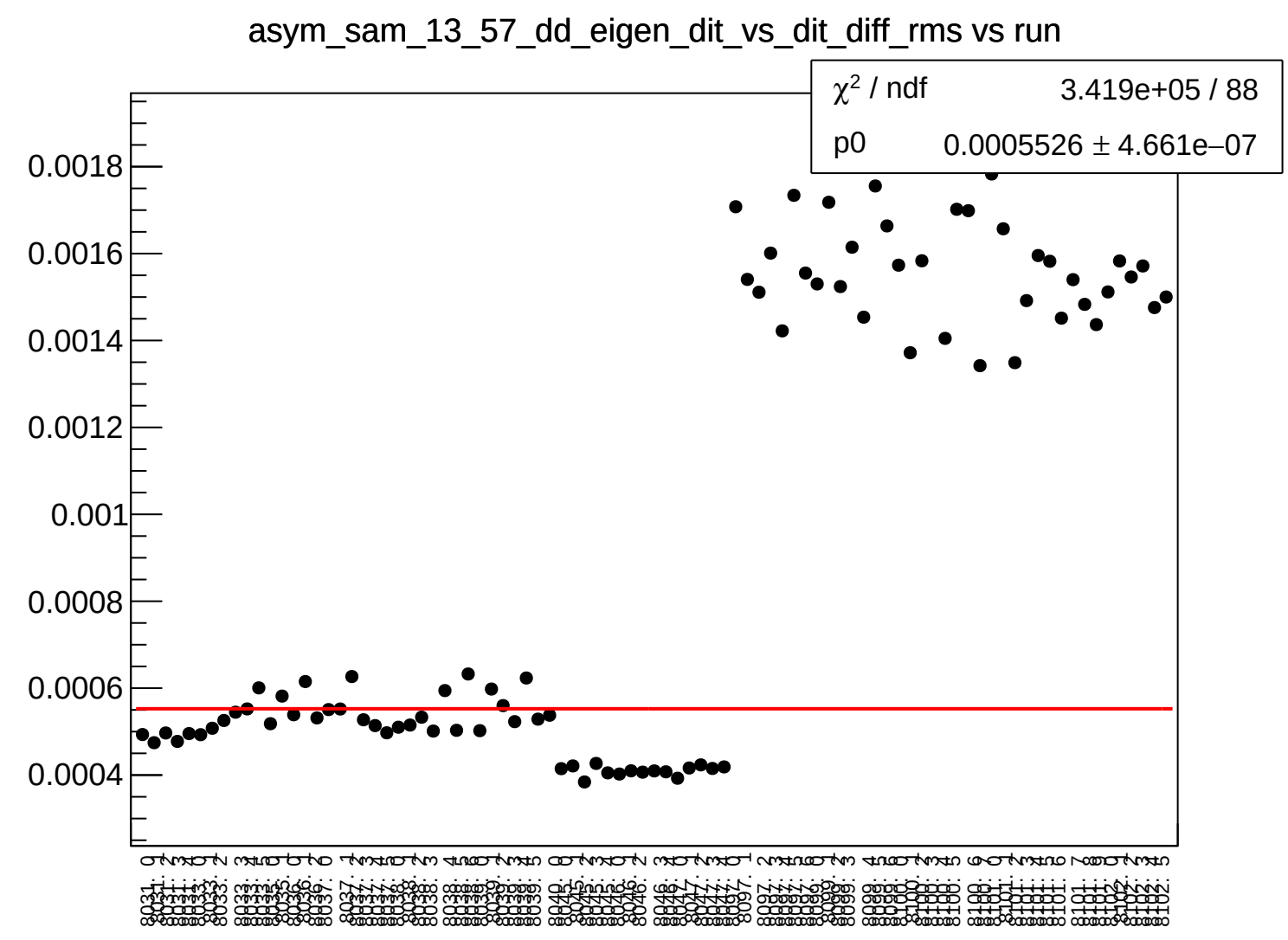

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.049e+05 / 88
p0 22.03 ± 0.01719
70
60
50
40
30
20

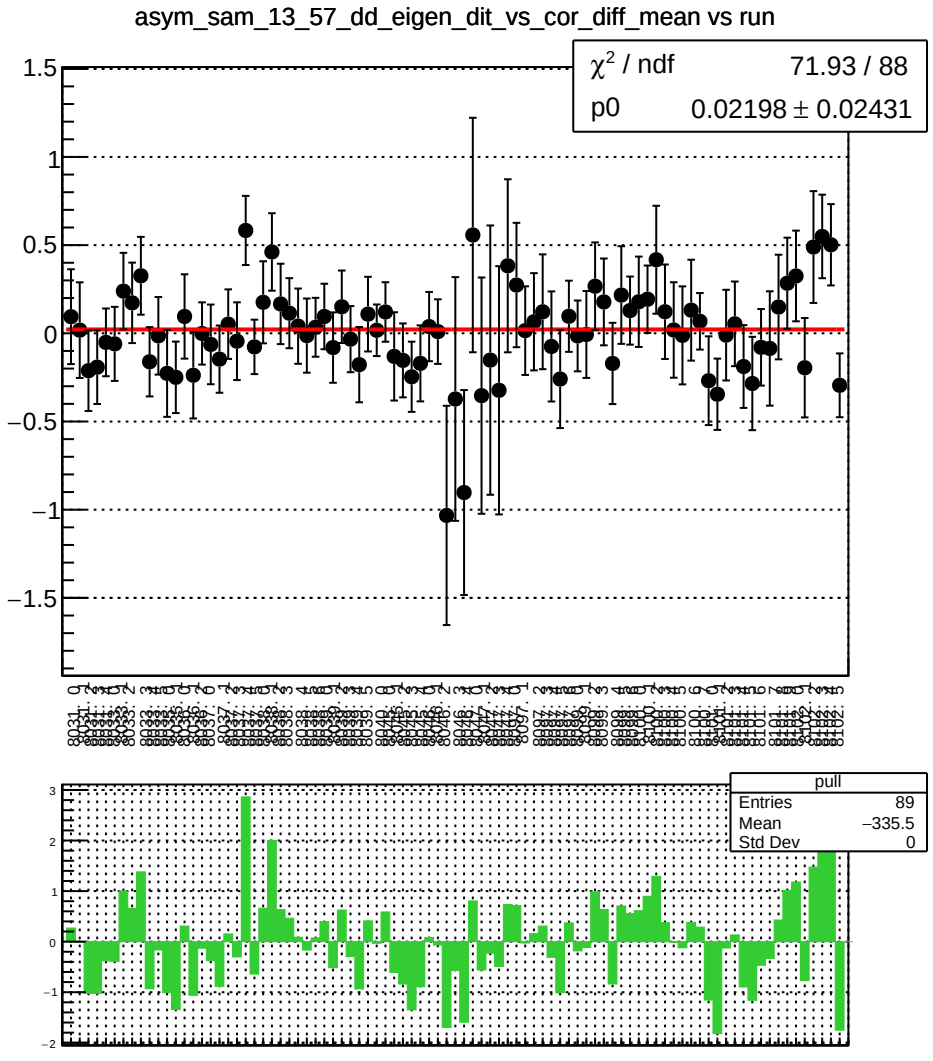

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.93 / 88
p0 0.02198 ± 0.02431
pull
Entries 89
Mean −335.5
Std Dev 0

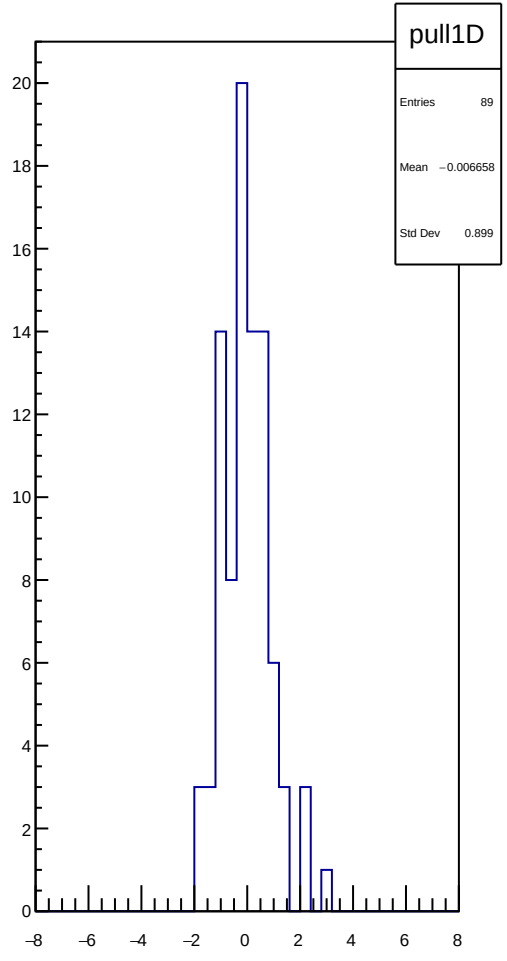

pull1D
Entries 89
Mean −0.006659
Std Dev 0.899

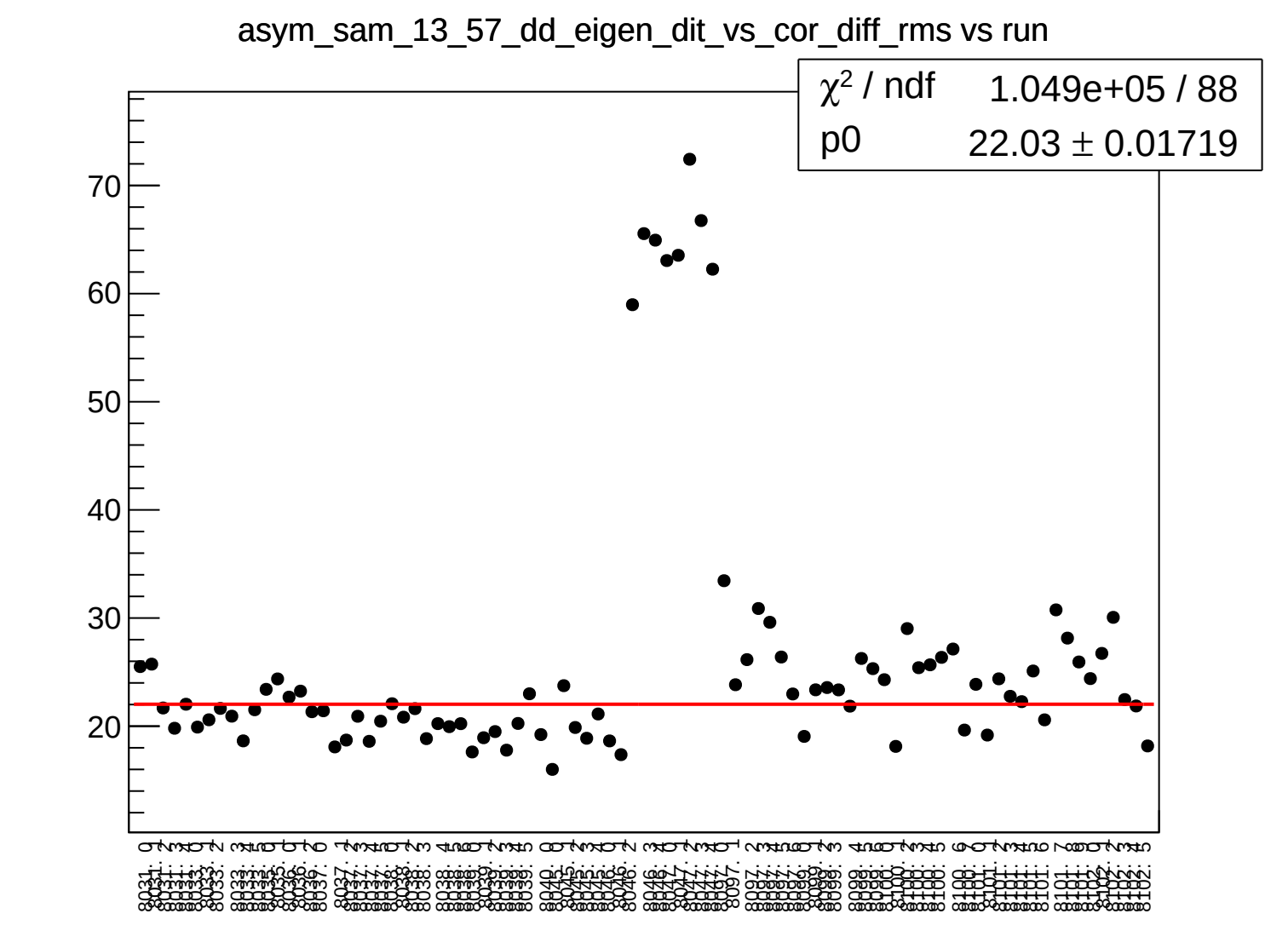

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.049e+05 / 88
p0 22.03 ± 0.01719
70
60
50
40
30
20

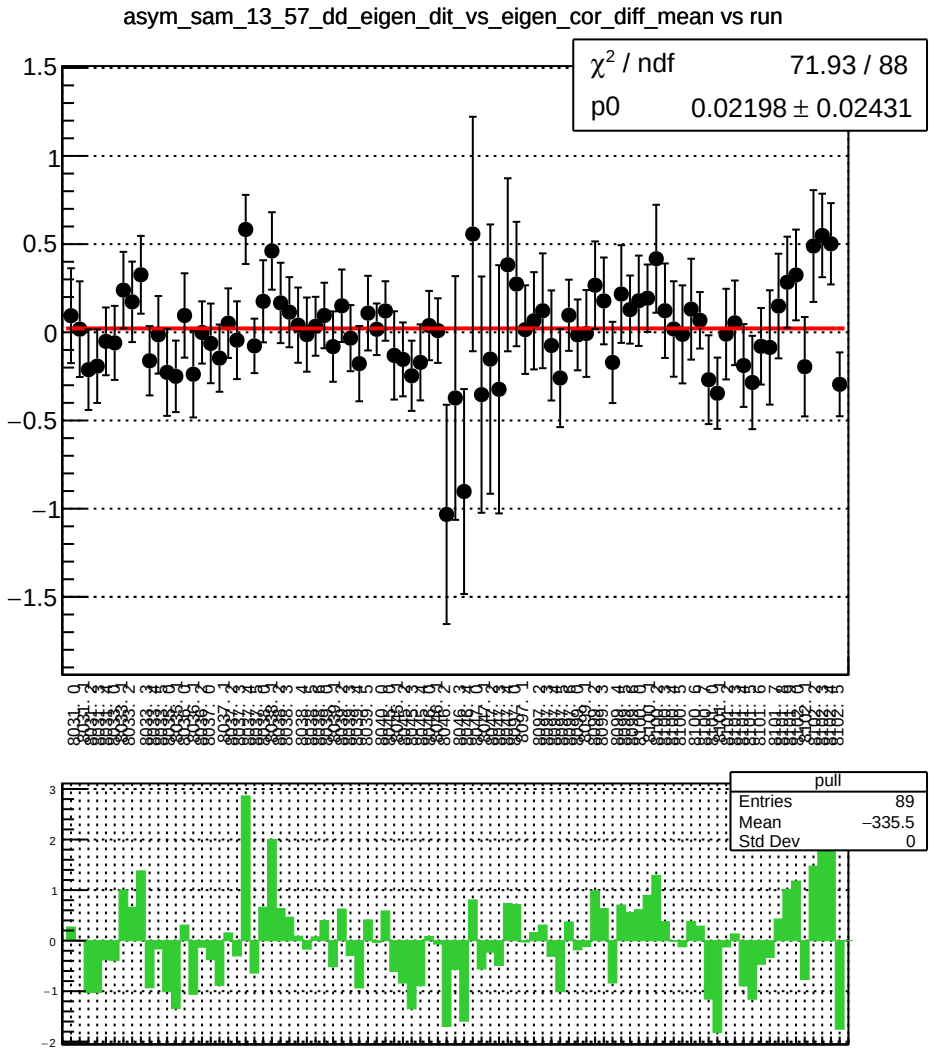

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.18 / 88
p0 −6.09e−07 ± 6.592e−07
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 89
Mean 53.19
Std Dev 14.54
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean 0.07989
Std Dev 0.9094
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

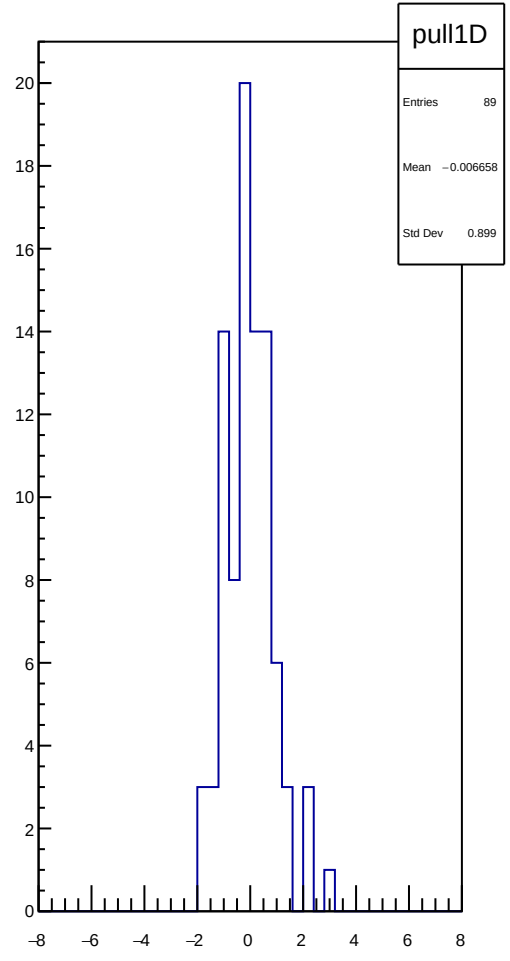

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.419e+05 / 88
p0 0.0005526 ± 4.661e−07
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004

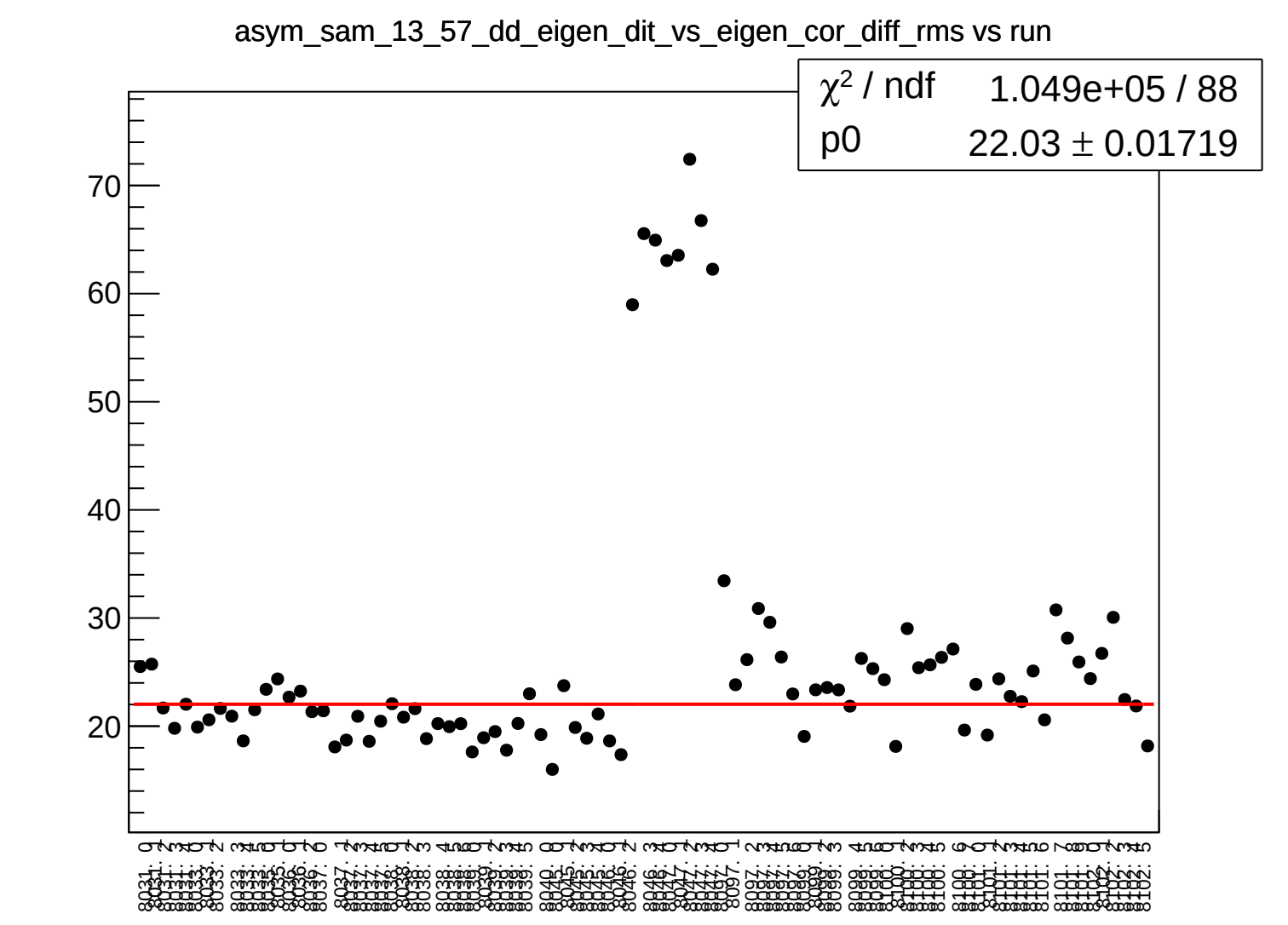

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.93 / 88
p0 0.02198 ± 0.02431
pull
Entries 89
Mean −335.5
Std Dev 0

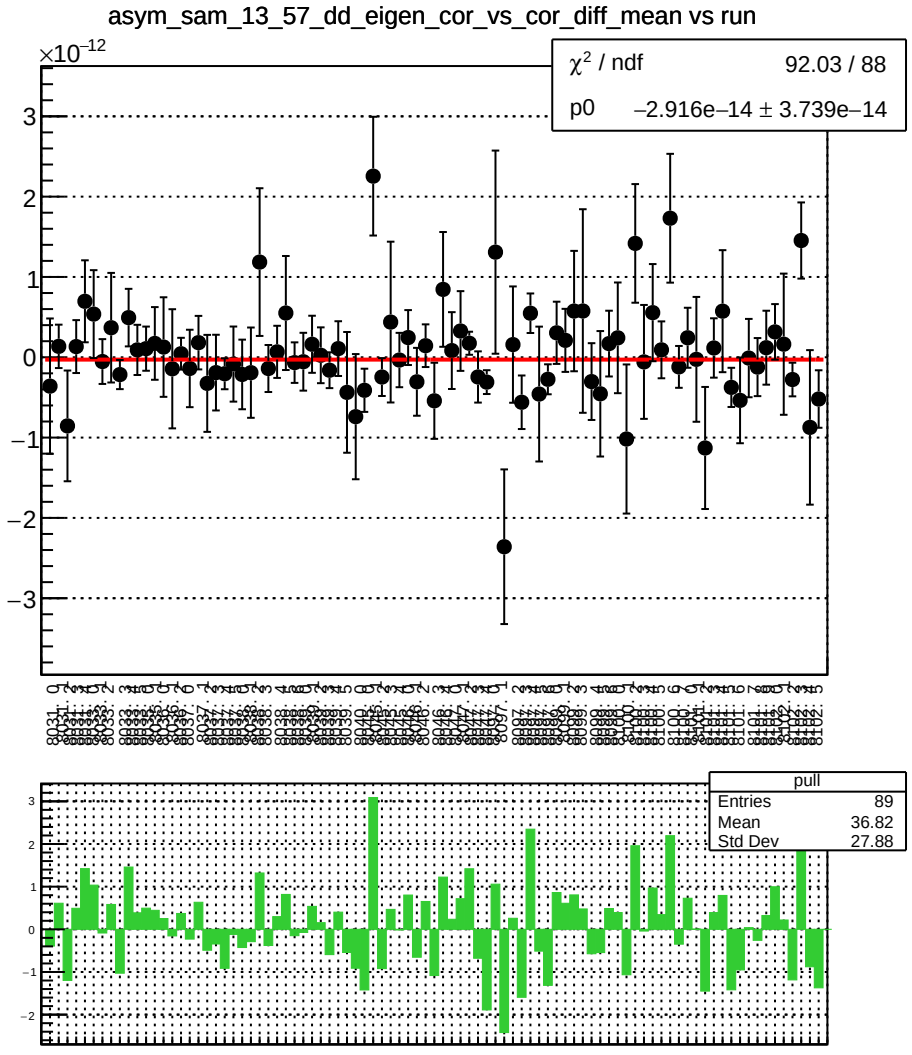

pull1D
Entries 89
Mean −0.006658
Std Dev 0.899

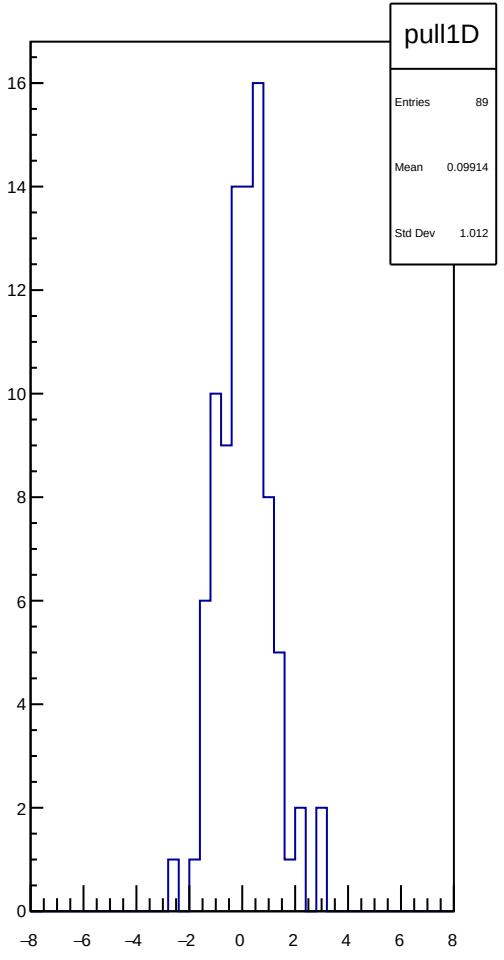

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 1.049e+05 / 88
p0 22.03 ± 0.01719
70
60
50
40
30
20

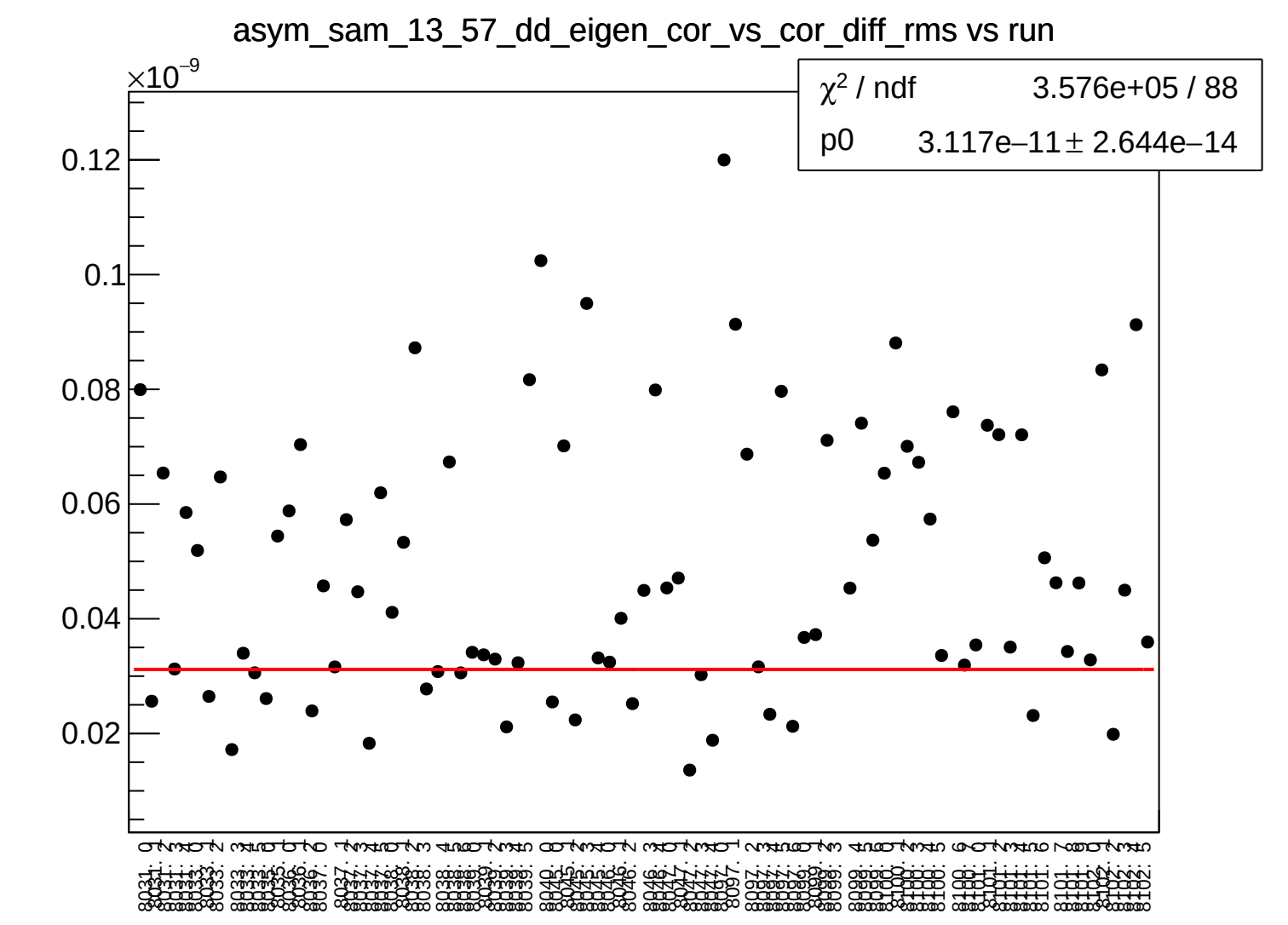

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.93 / 88
p0 0.02198 ± 0.02431
pull
Entries 89
Mean −335.5
Std Dev 0

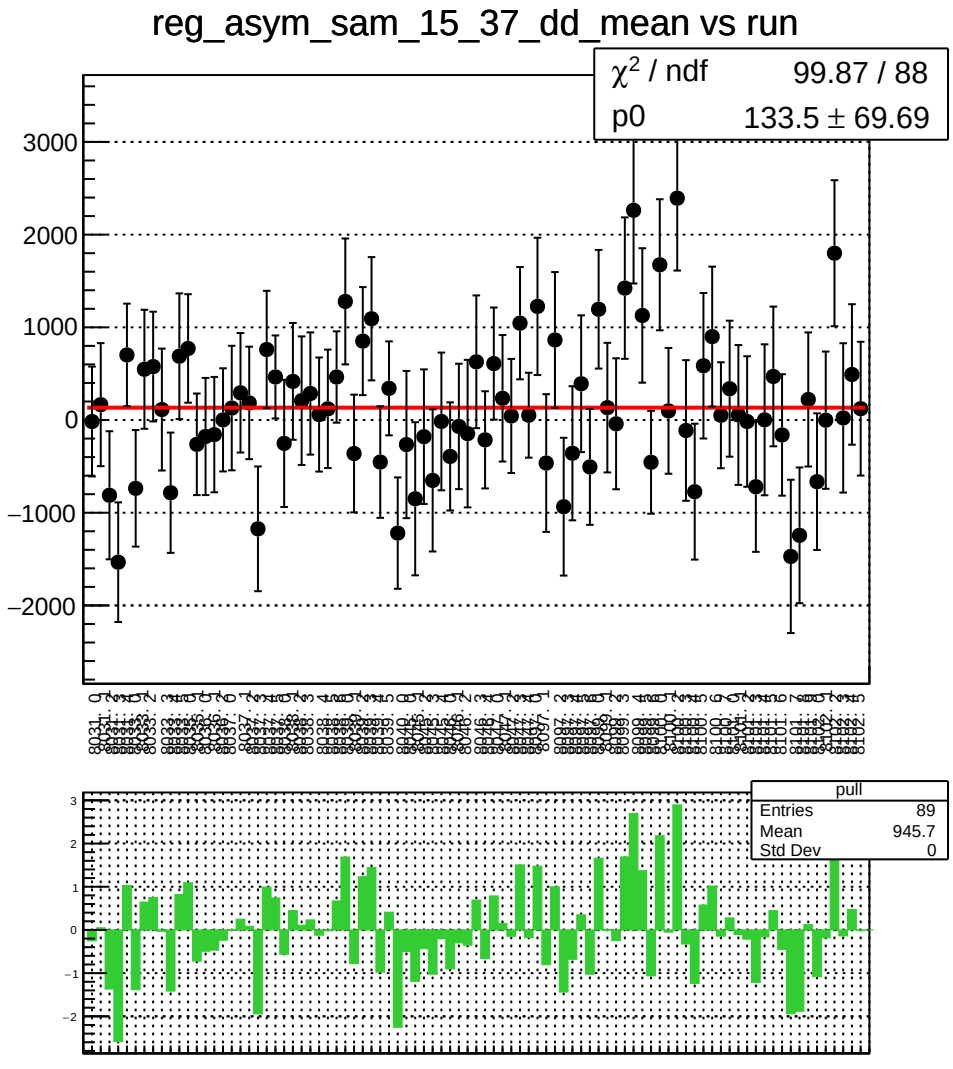

pull1D
Entries 89
Mean −0.006658
Std Dev 0.899

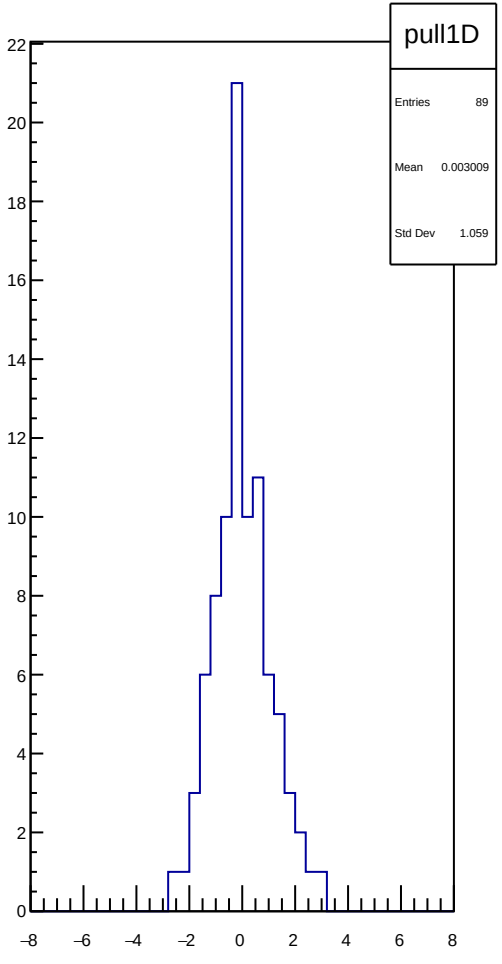

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.049e+05 / 88
p0 22.03 ± 0.01719
70
60
50
40
30
20

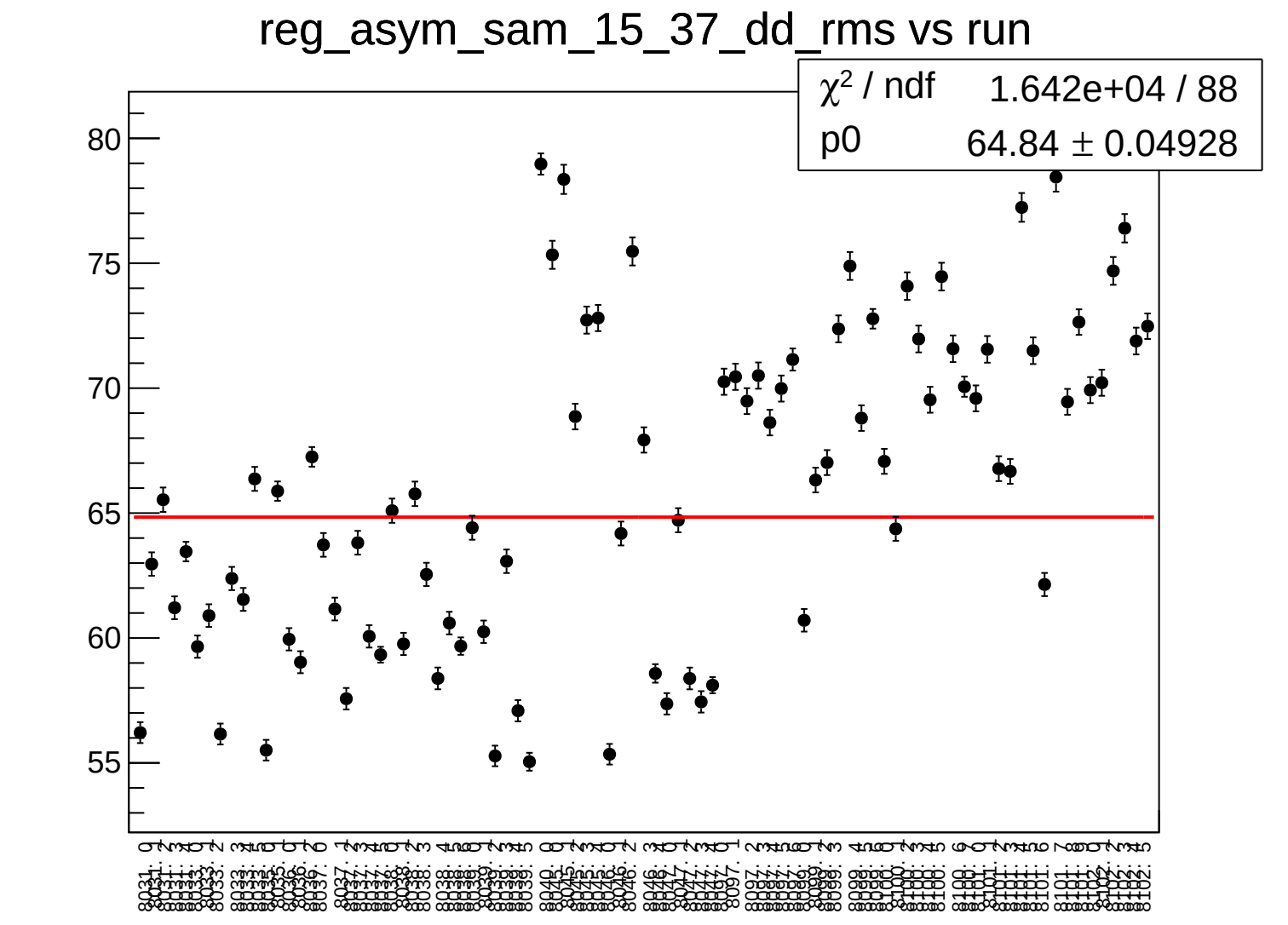

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.03 / 88
p0 −2.916e−14 ± 3.739e−14
pull
Entries 89
Mean 36.82
Std Dev 27.88

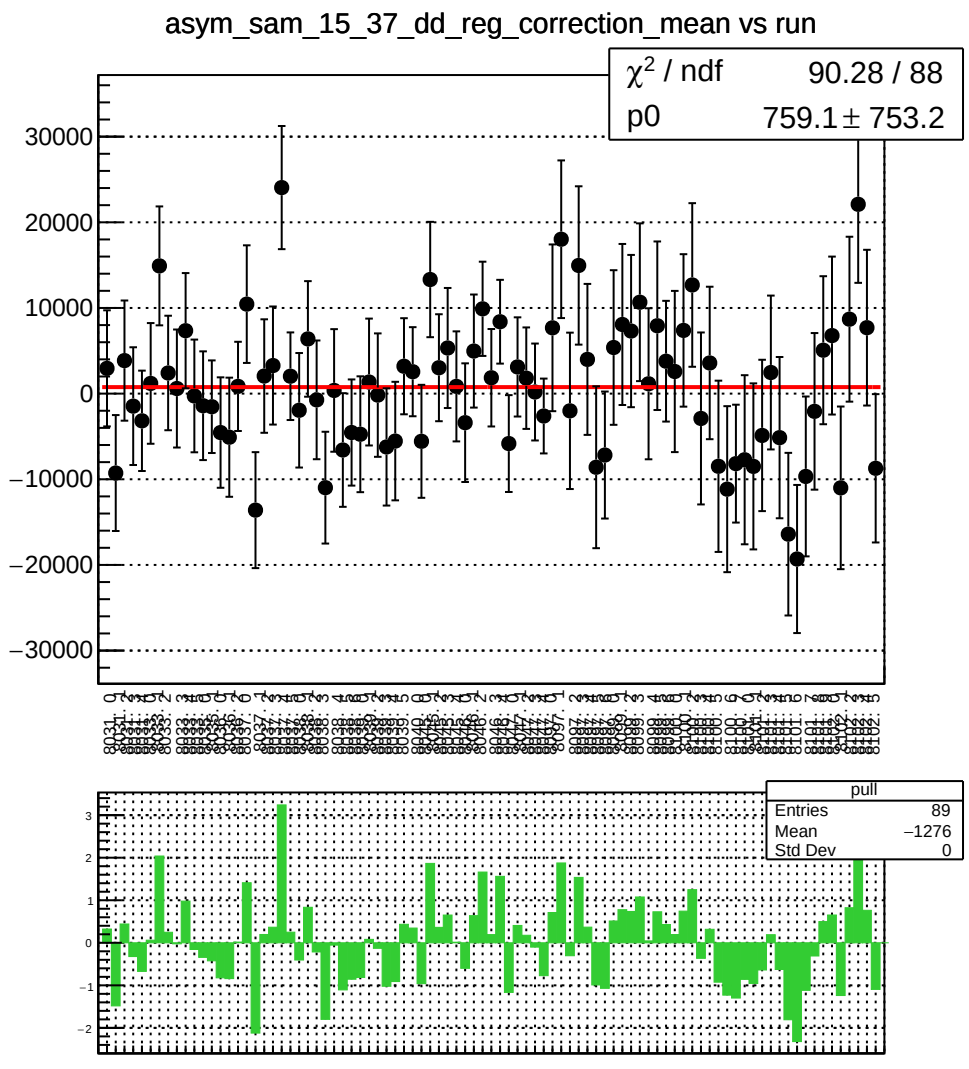

pull1D
Entries 89
Mean 0.09914
Std Dev 1.012

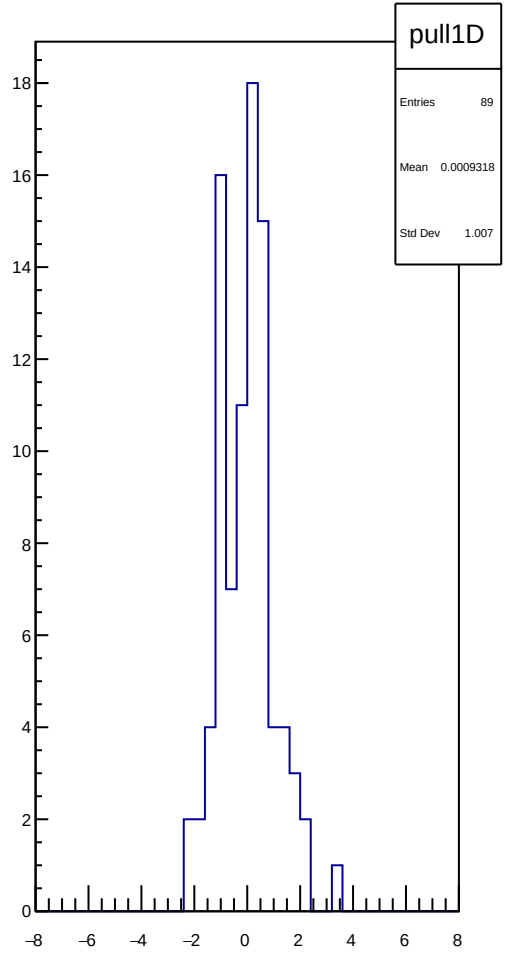

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.576e+05 / 88
p0 3.117e−11 ± 2.644e−14
0.12
0.1
0.08
0.06
0.04
0.02


reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 99.87 / 88
p0 133.5 ± 69.69
3000
2000
1000
0
−1000
−2000
pull
Entries 89
Mean 945.7
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 89
Mean 0.003009
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


reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.642e+04 / 88
p0 64.84 ± 0.04928
80
75
70
65
60
55


asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 90.28 / 88
p0 759.1 ± 753.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −1276
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 89
Mean 0.0009318
Std Dev 1.007
18
16
14
12
10
8
6
4
2
0
−8
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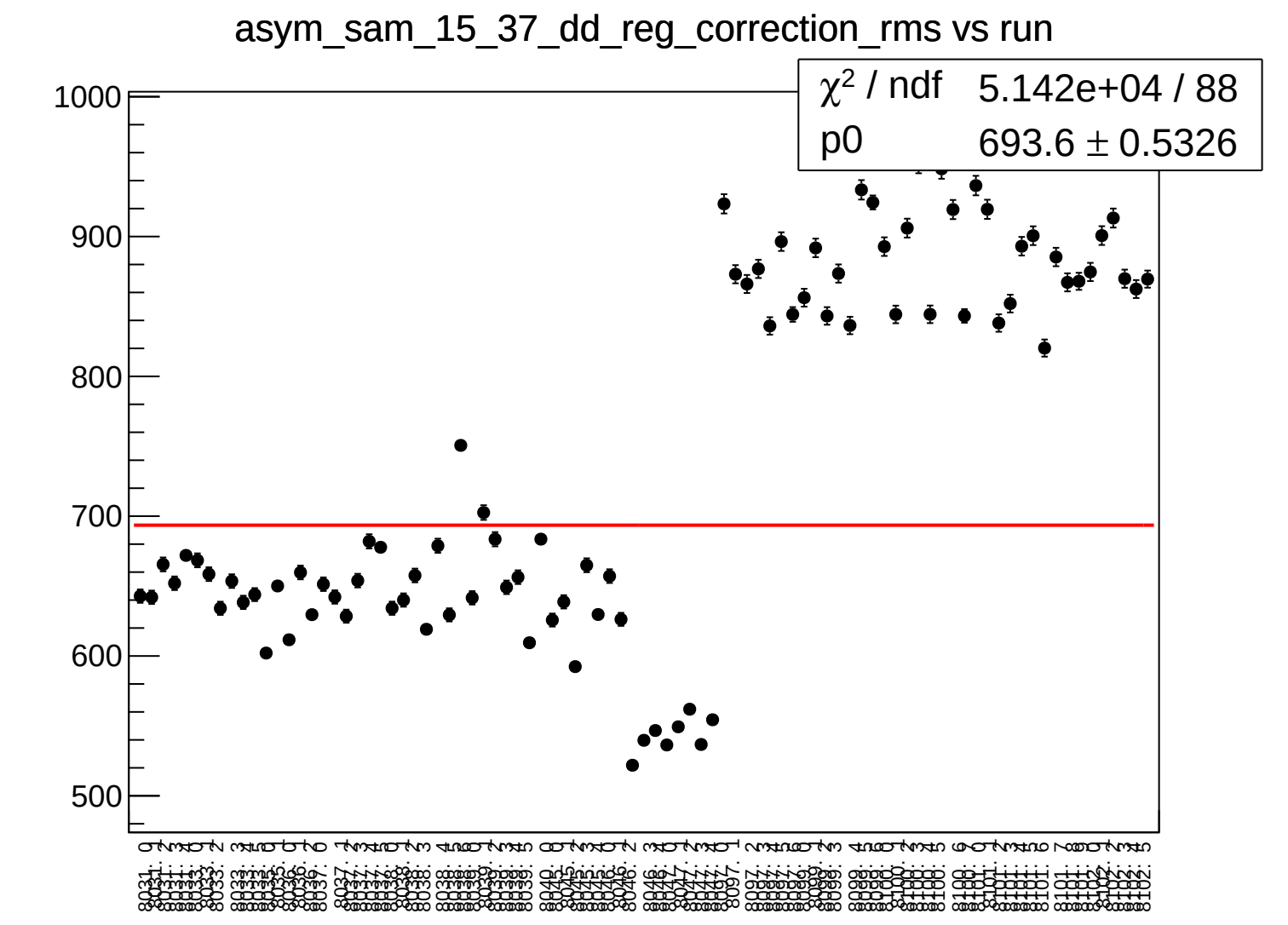
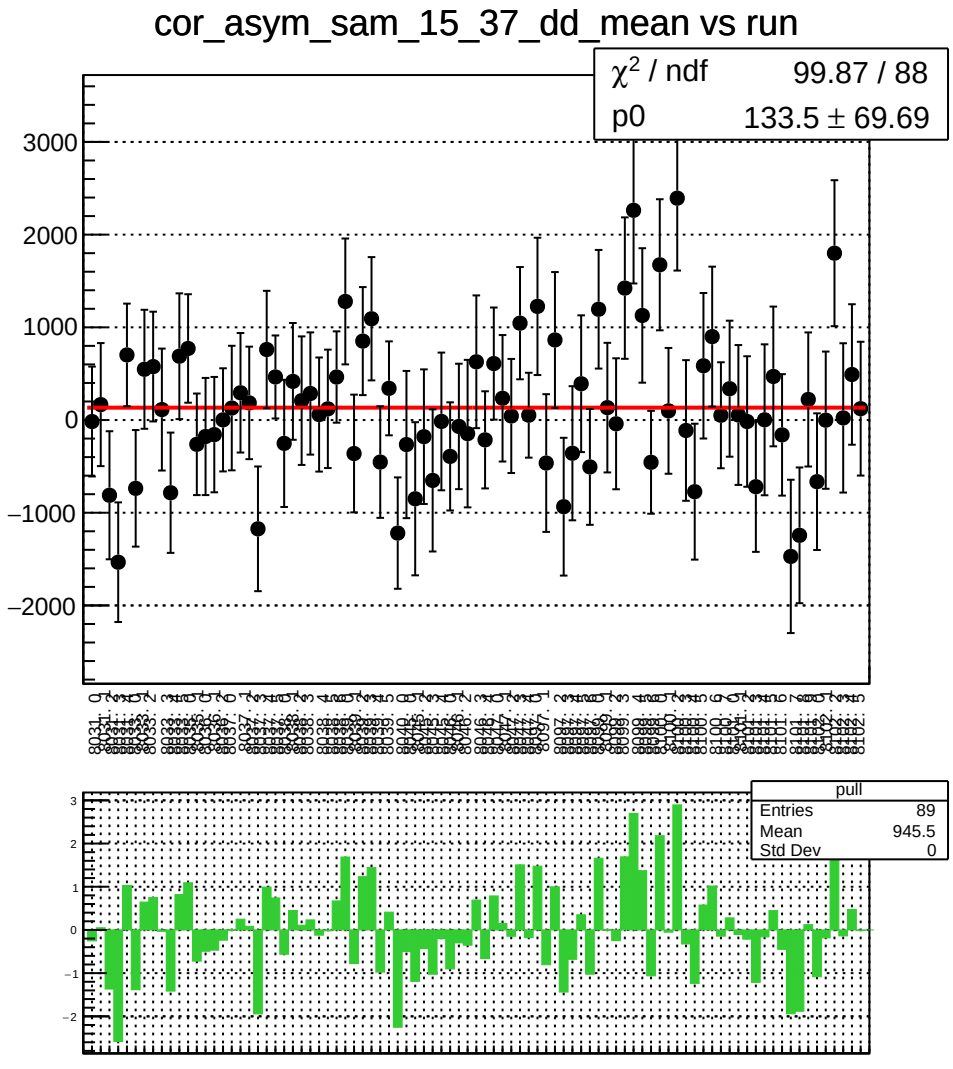
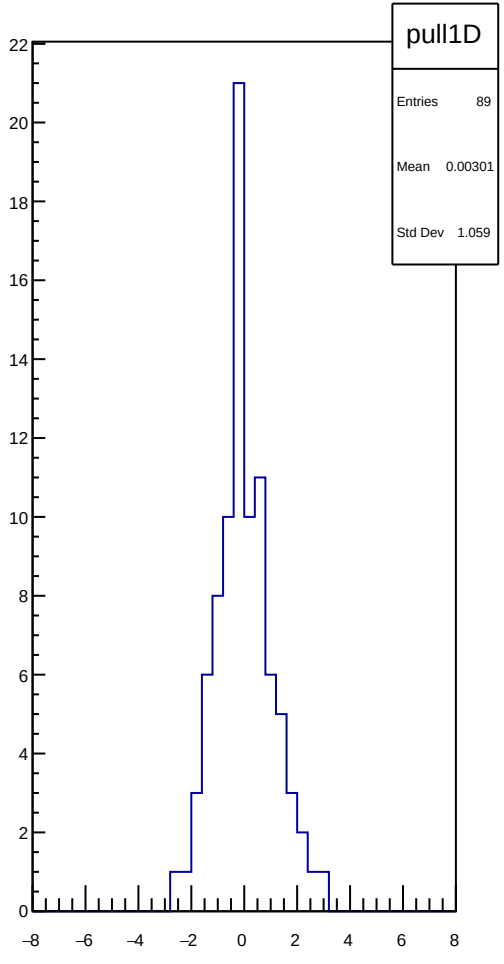
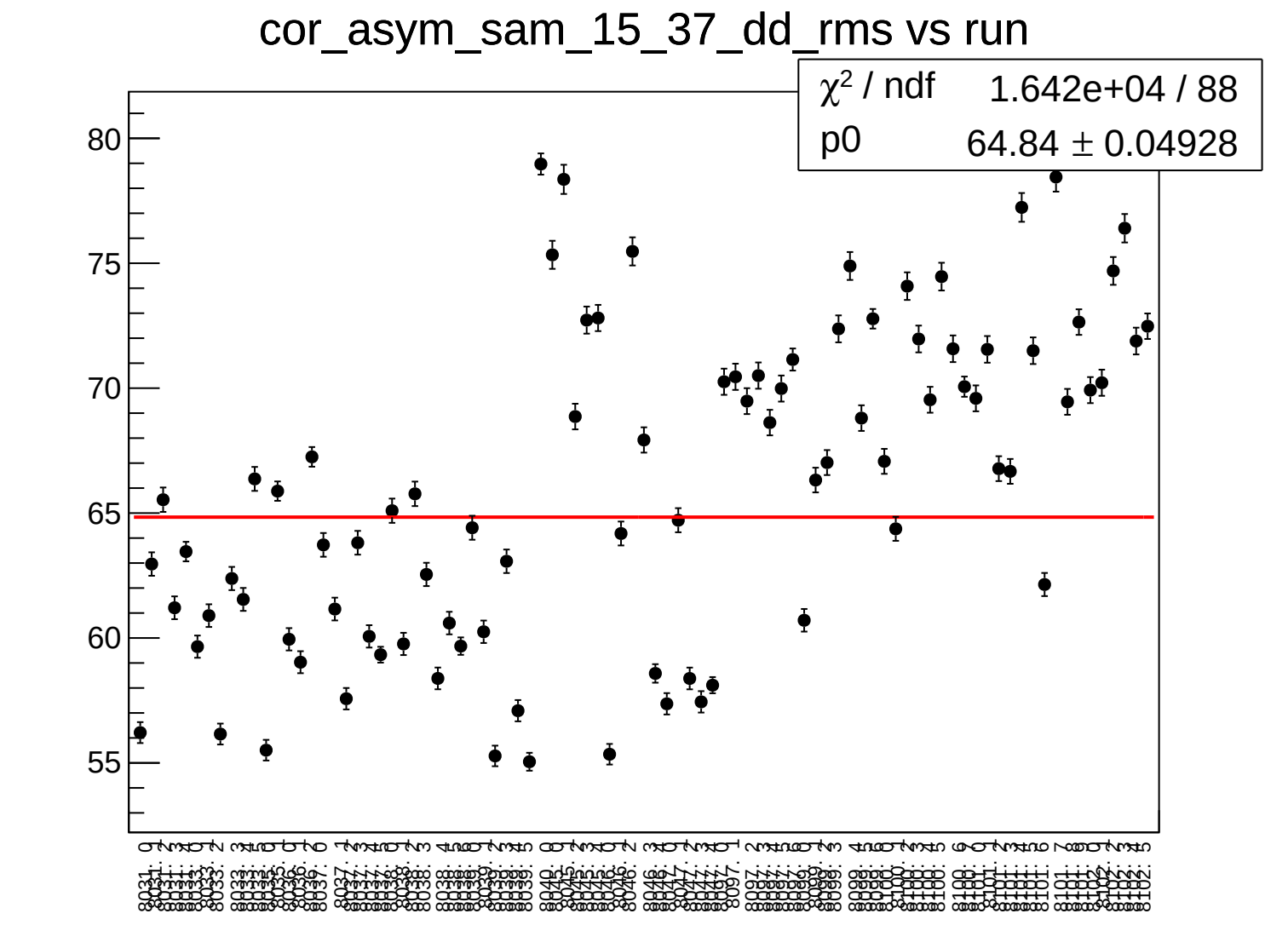
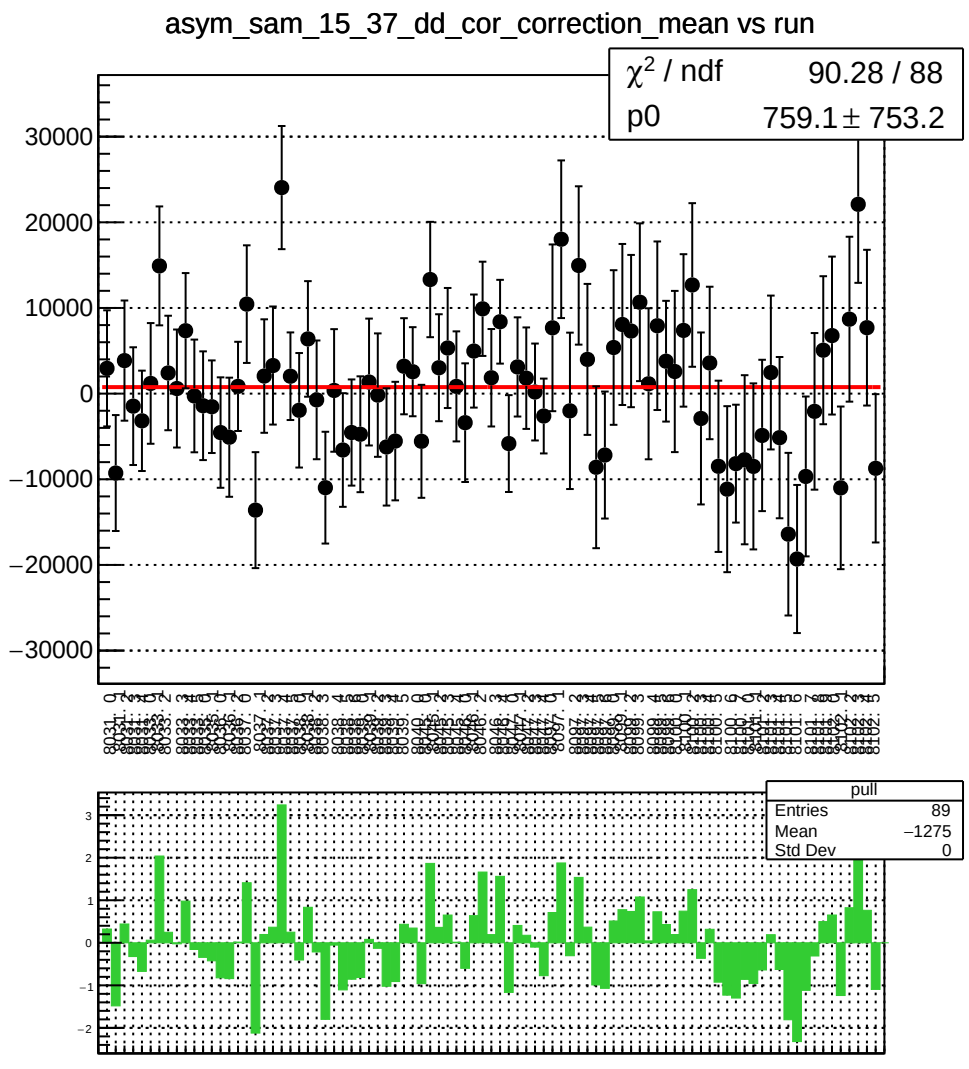
2
4
6
8

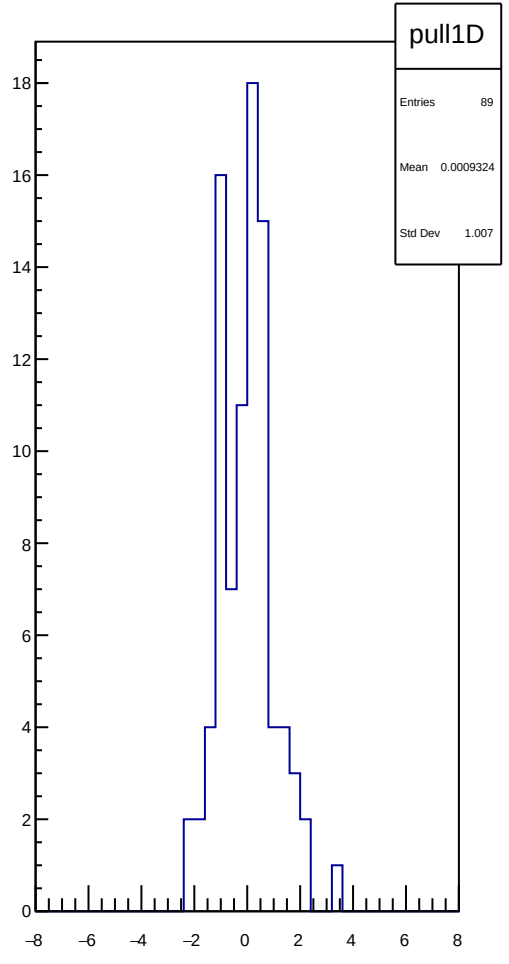

asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 5.142e+04 / 88
p0 693.6 ± 0.5326
1000
900
800
700
600
500

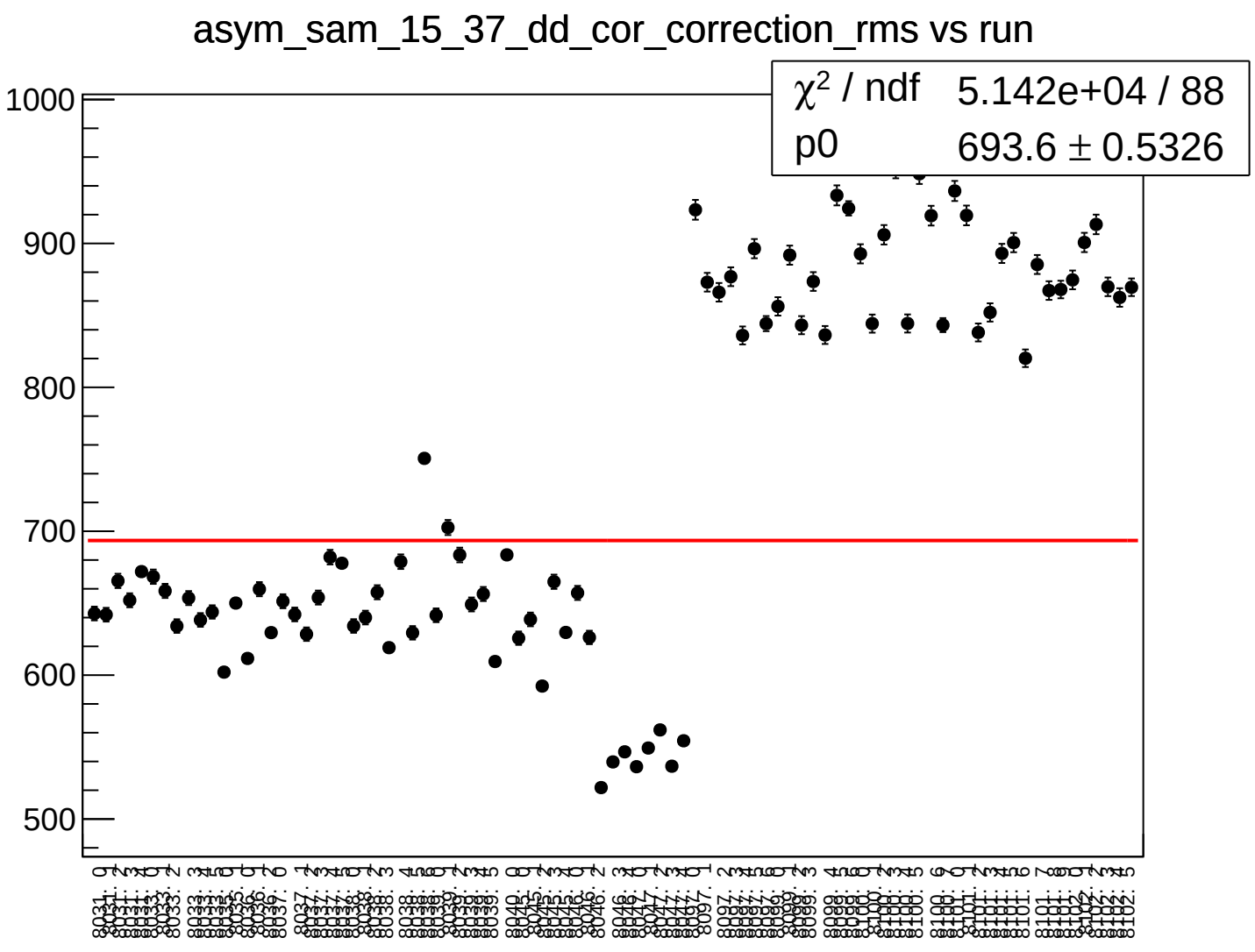

cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 99.87 / 88
p0 133.5 ± 69.69
3000
2000
1000
0
−1000
−2000
pull
Entries 89
Mean 945.5
Std Dev 0
3
2
1
0
−1
−2

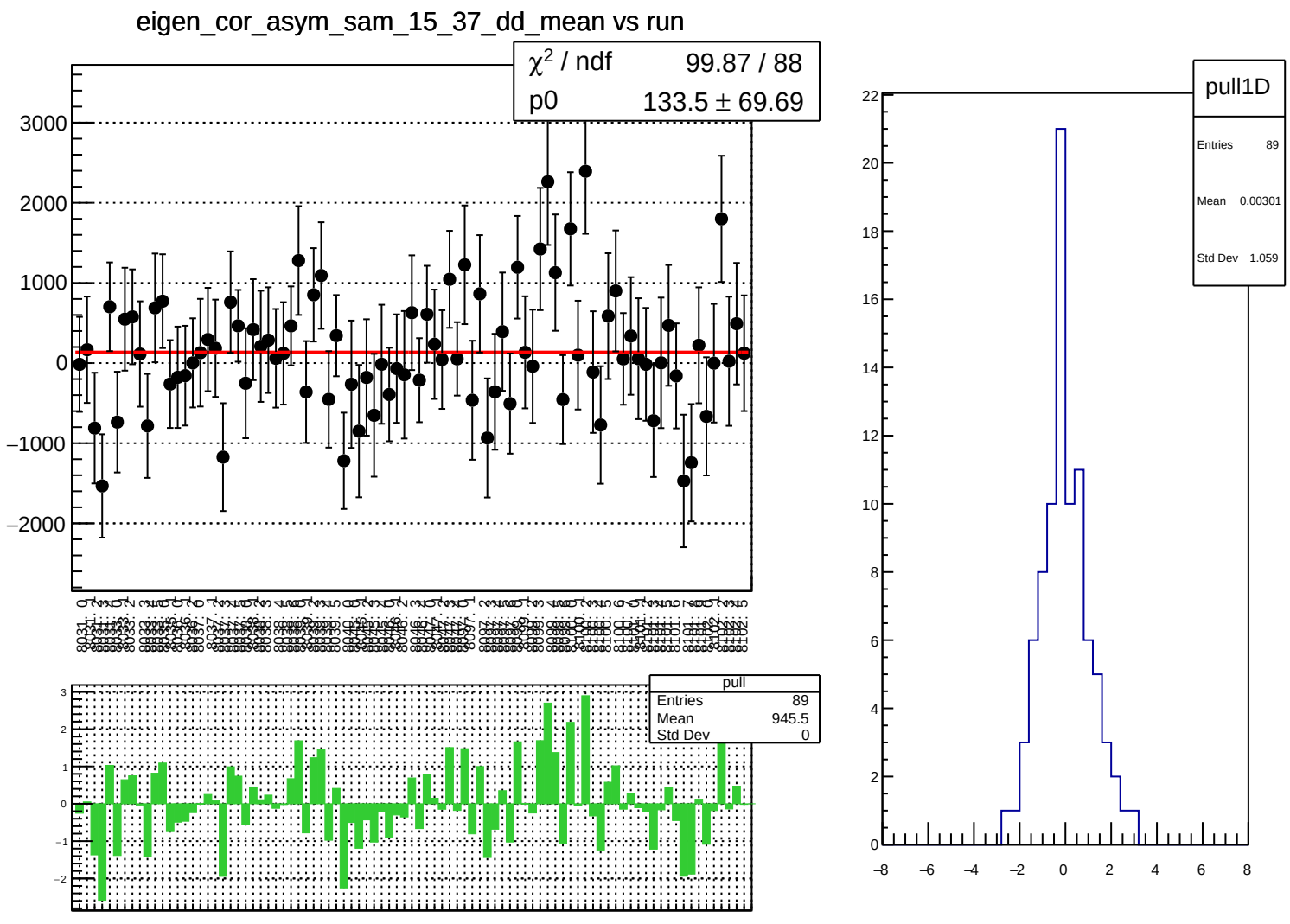

pull1D
Entries 89
Mean 0.00301
Std Dev 1.059
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

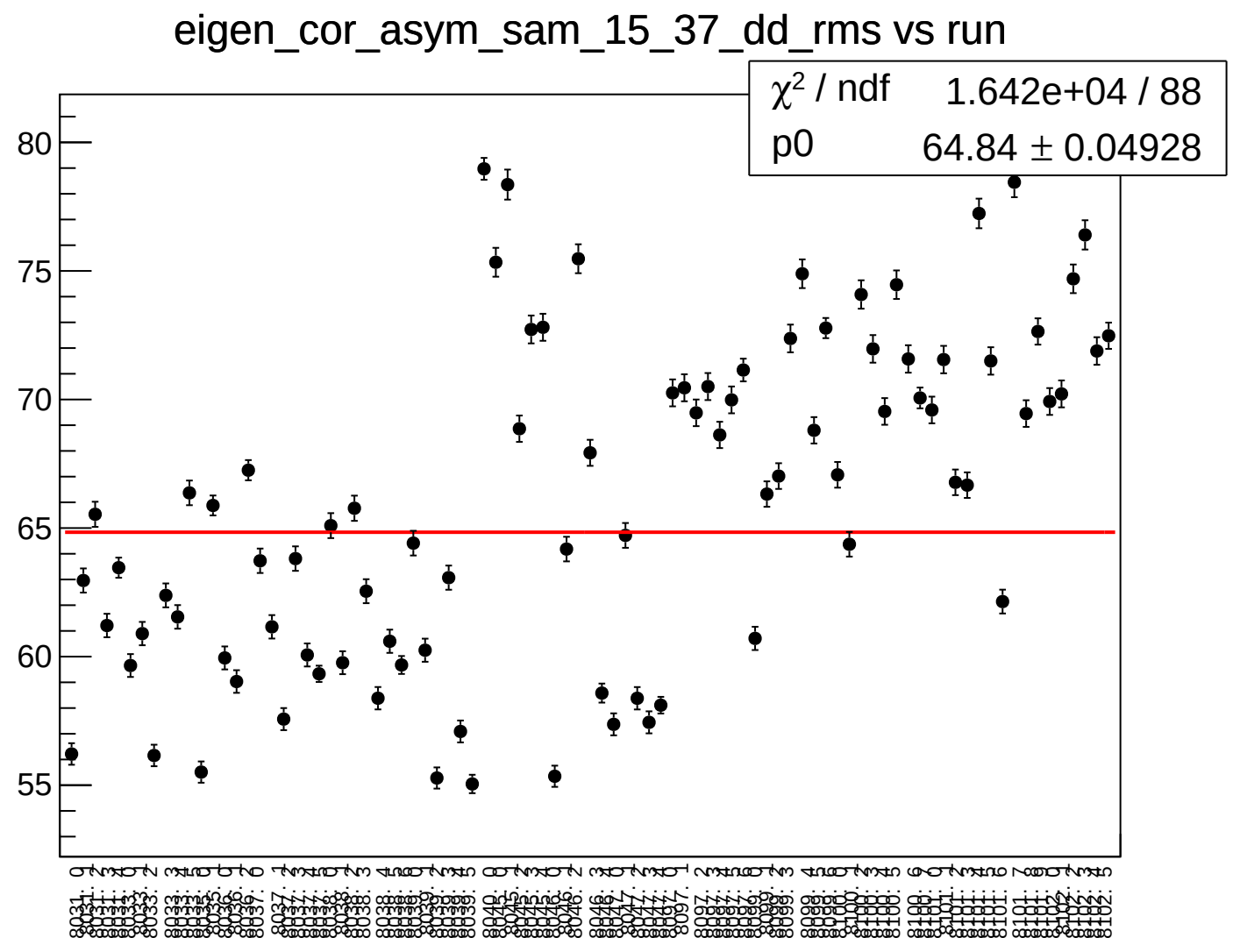

cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.642e+04 / 88
p0 64.84 ± 0.04928
80
75
70
65
60
55

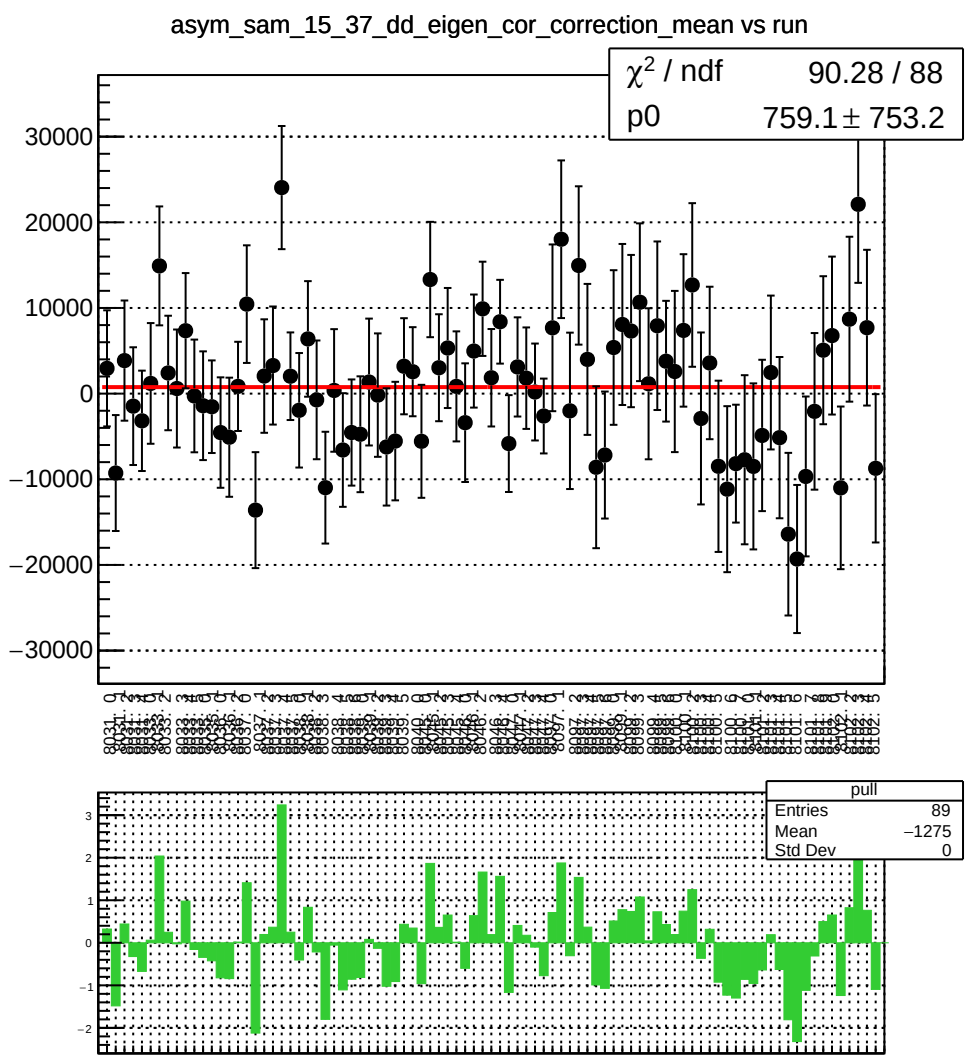

asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 90.28 / 88
p0 759.1 ± 753.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −1275
Std Dev 0
3
2
1
0
−1
−2

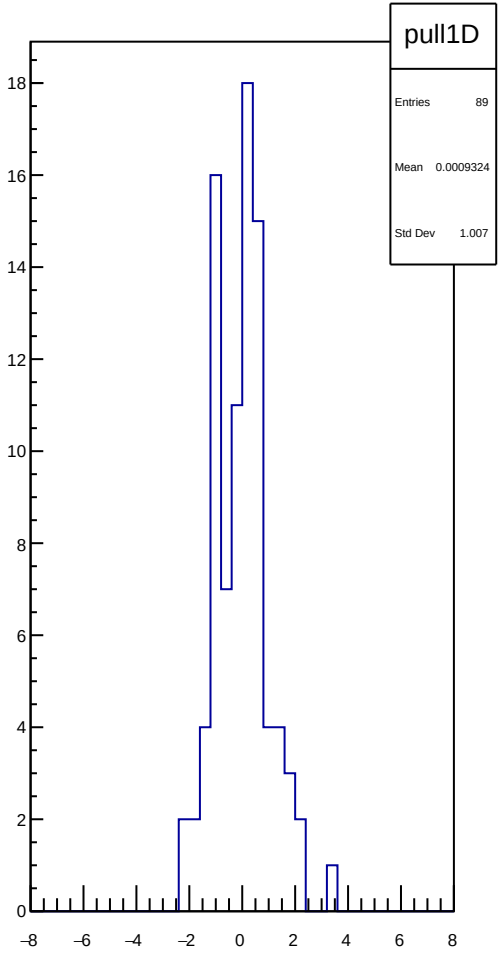

pull1D
Entries 89
Mean 0.0009324
Std Dev 1.007
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

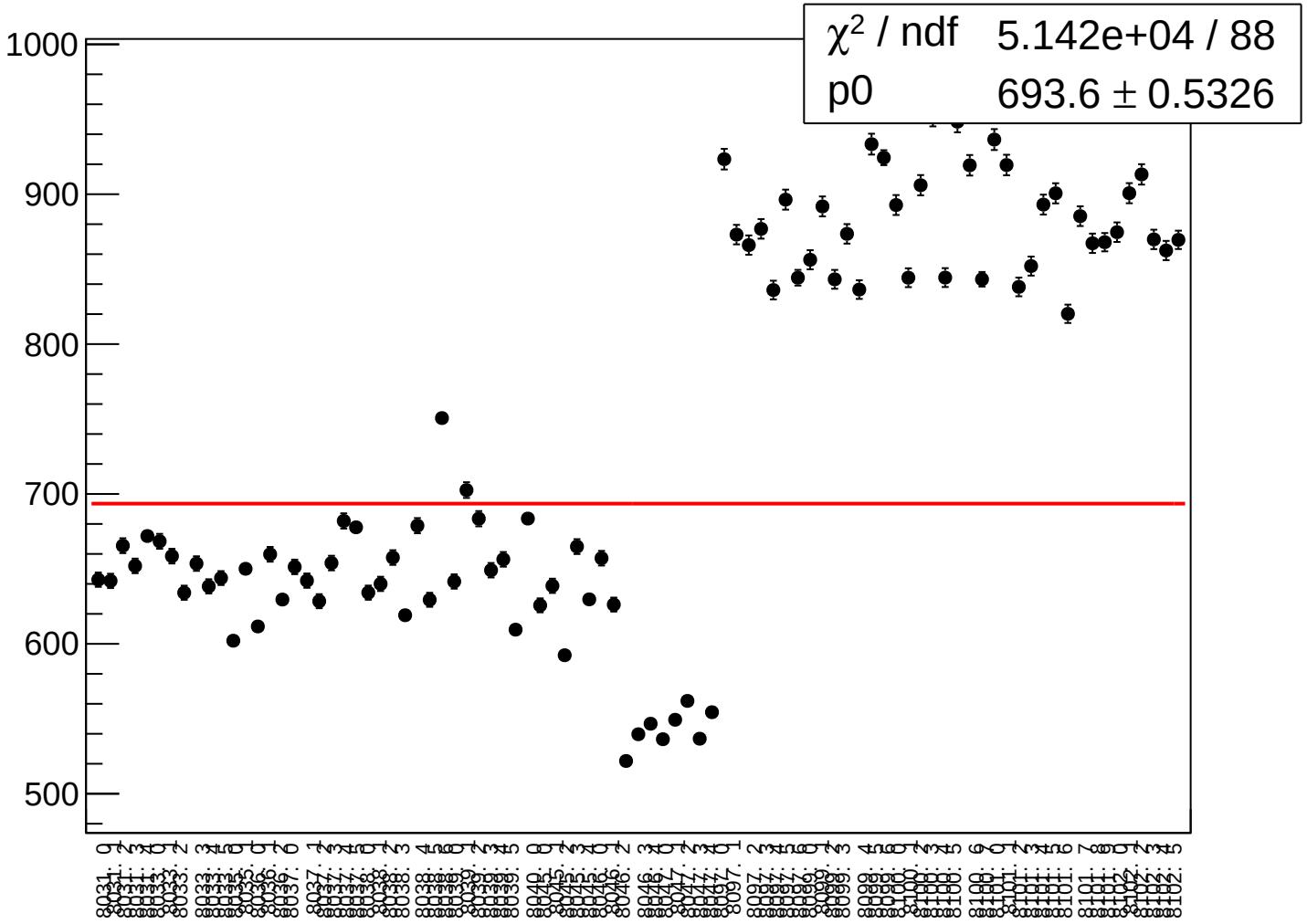

asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 5.142e+04 / 88
p0 693.6 ± 0.5326
1000
900
800
700
600
500

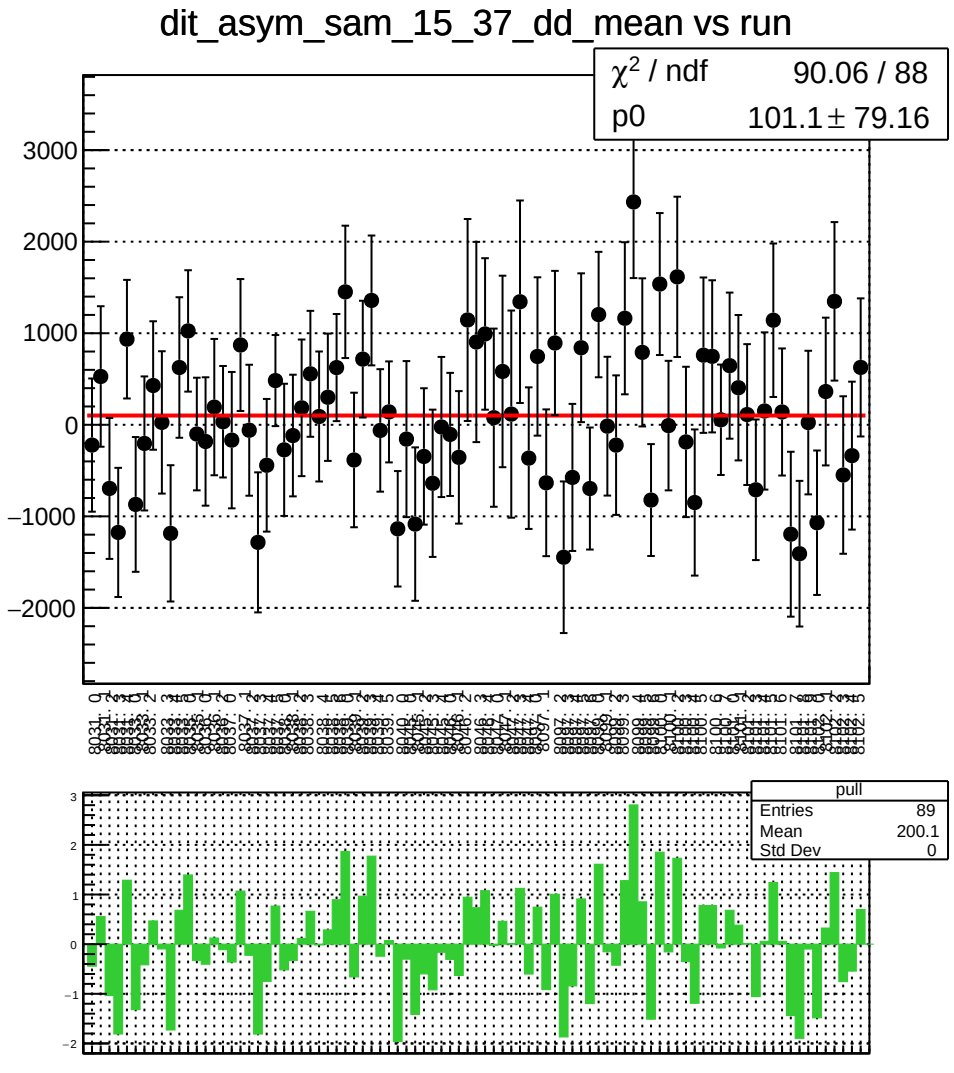

eigen_cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 99.87 / 88
p0 133.5 ± 69.69
3000
2000
1000
0
−1000
−2000
pull
Entries 89
Mean 945.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.00301
Std Dev 1.059
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

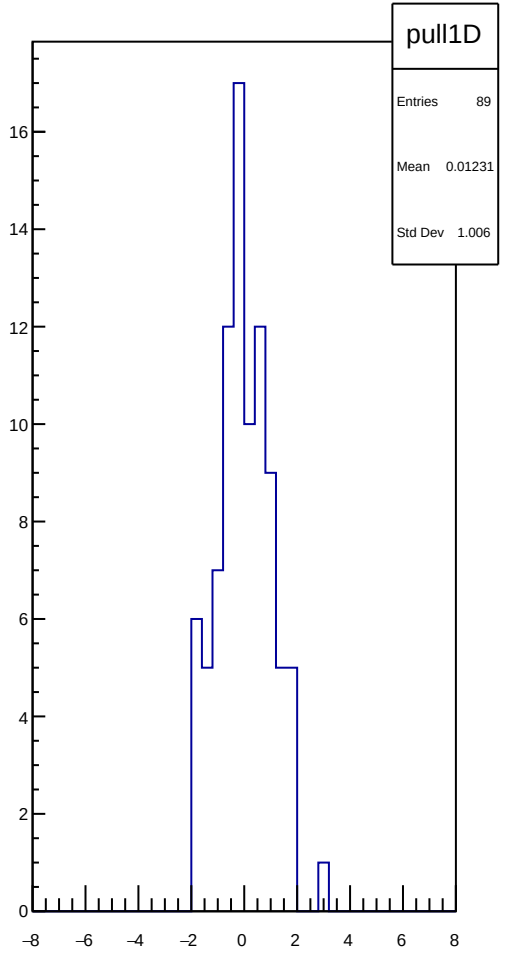

eigen_cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.642e+04 / 88
p0 64.84 ± 0.04928
80
75
70
65
60
55


asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 90.28 / 88
p0 759.1 ± 753.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −1275
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 89
Mean 0.0009324
Std Dev 1.007
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 5.142e+04 / 88
p0 693.6 ± 0.5326
1000
900
800
700
600
500


dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 90.06 / 88
p0 101.1 ± 79.16
3000
2000
1000
0
−1000
−2000
pull
Entries 89
Mean 200.1
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 89
Mean 0.01231
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
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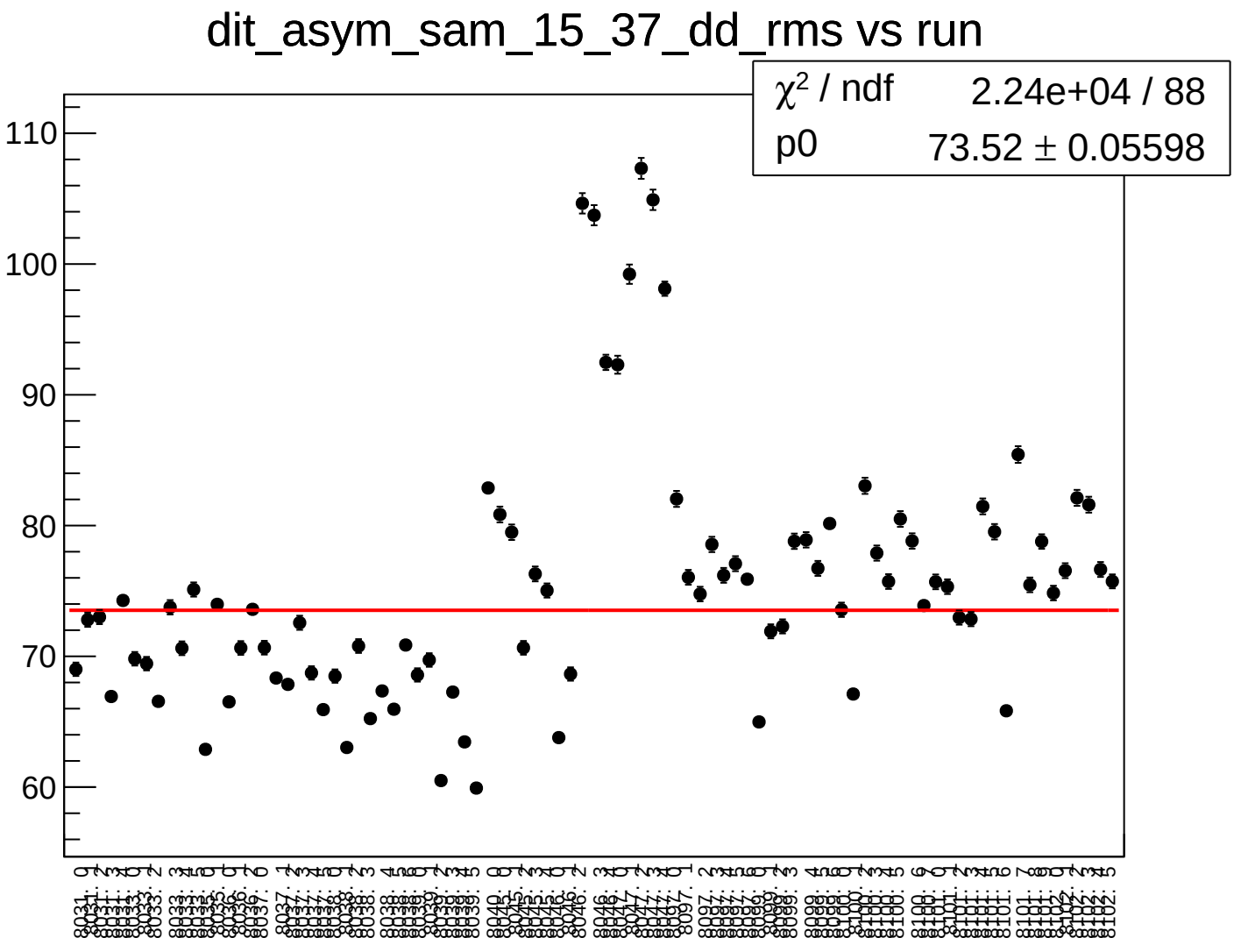
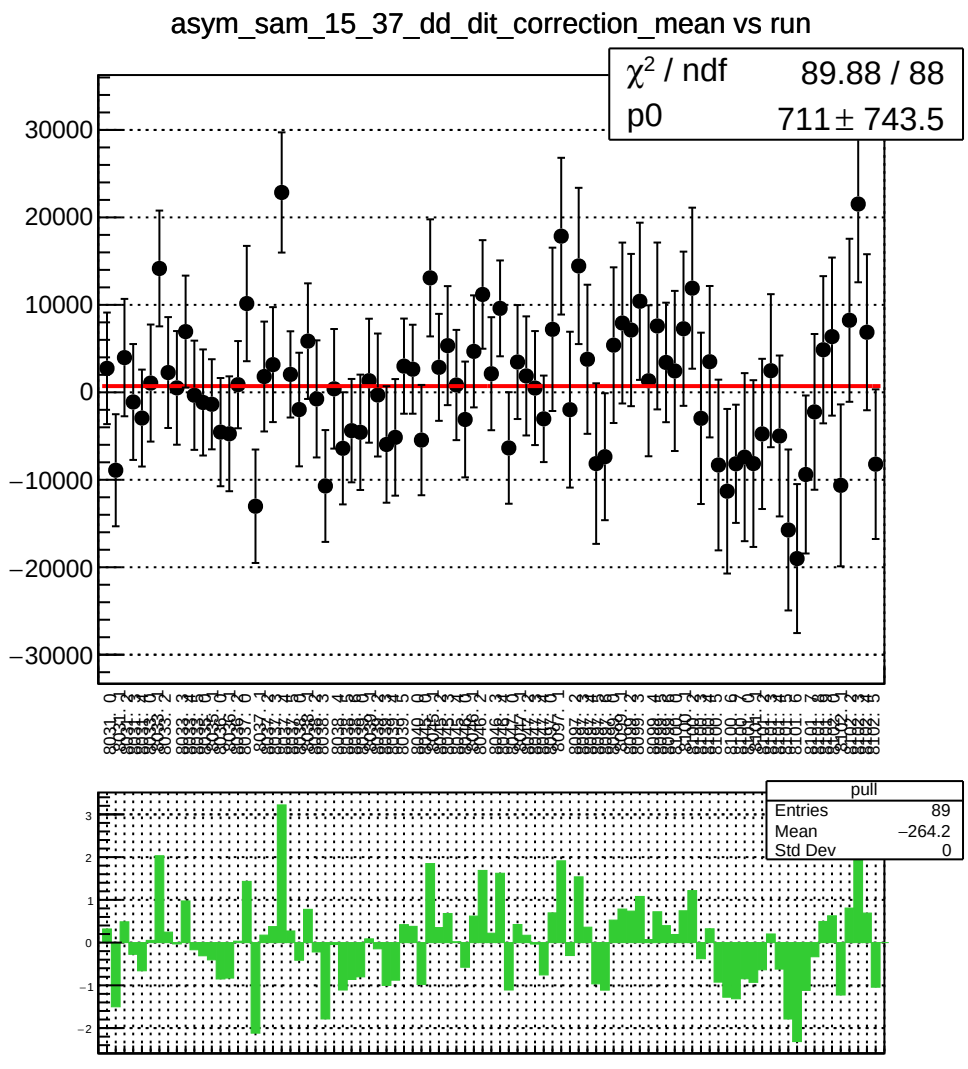
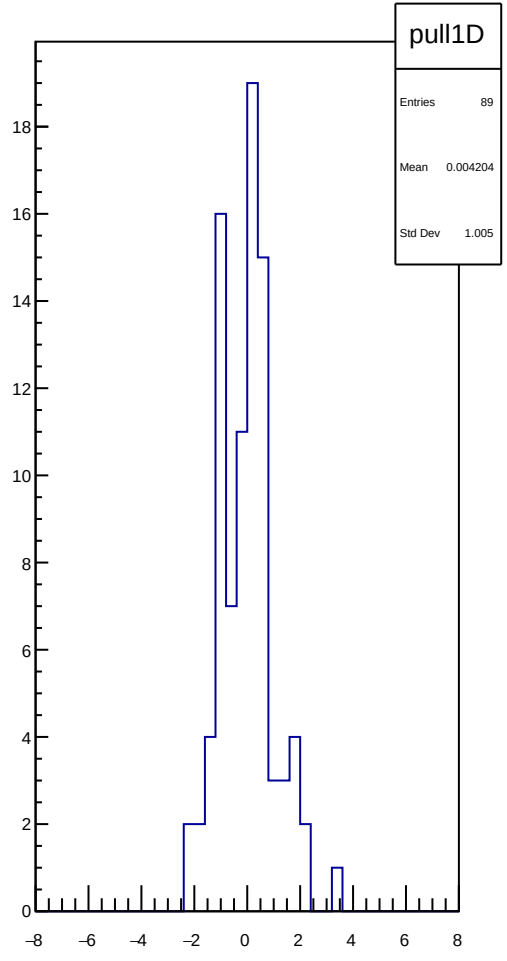
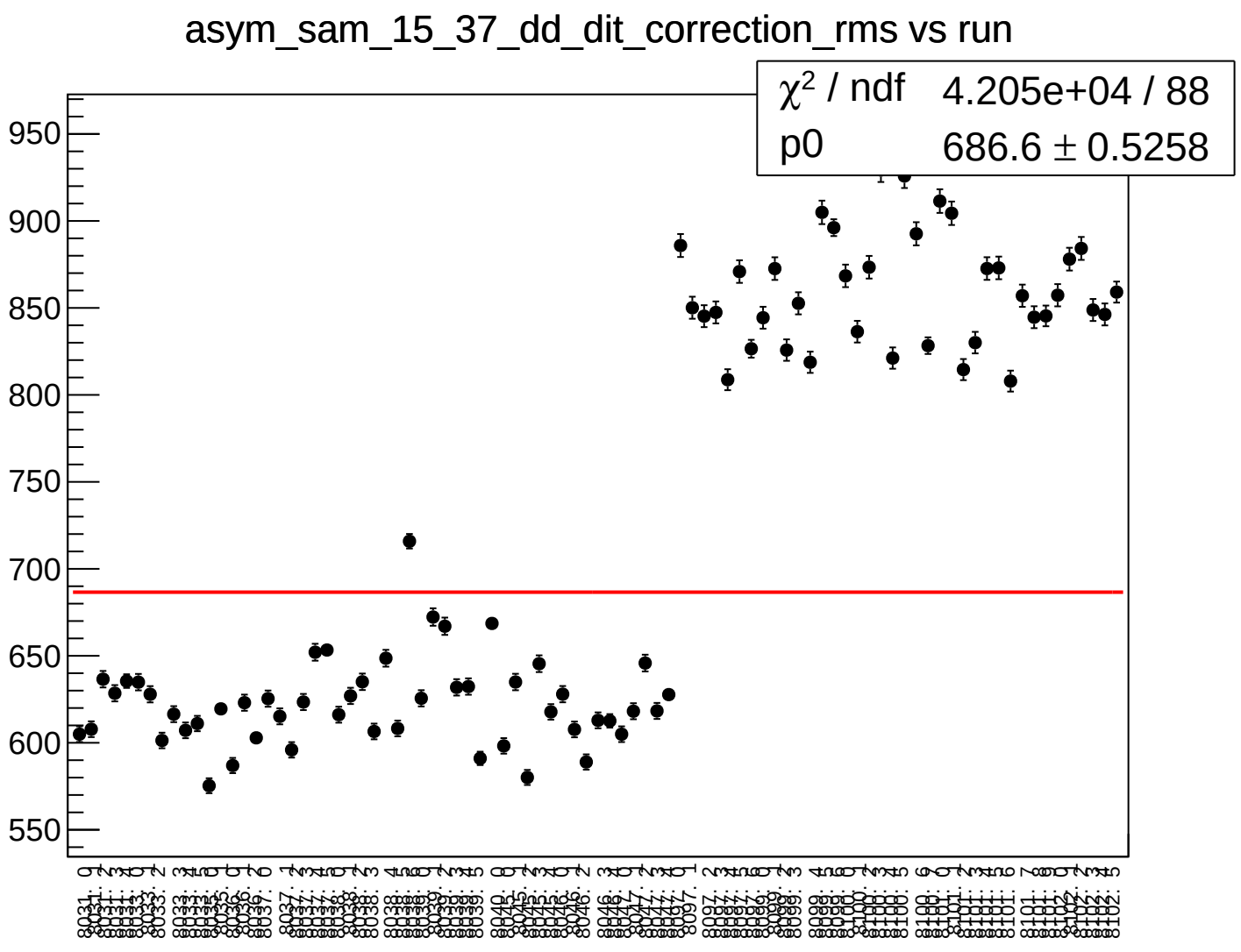
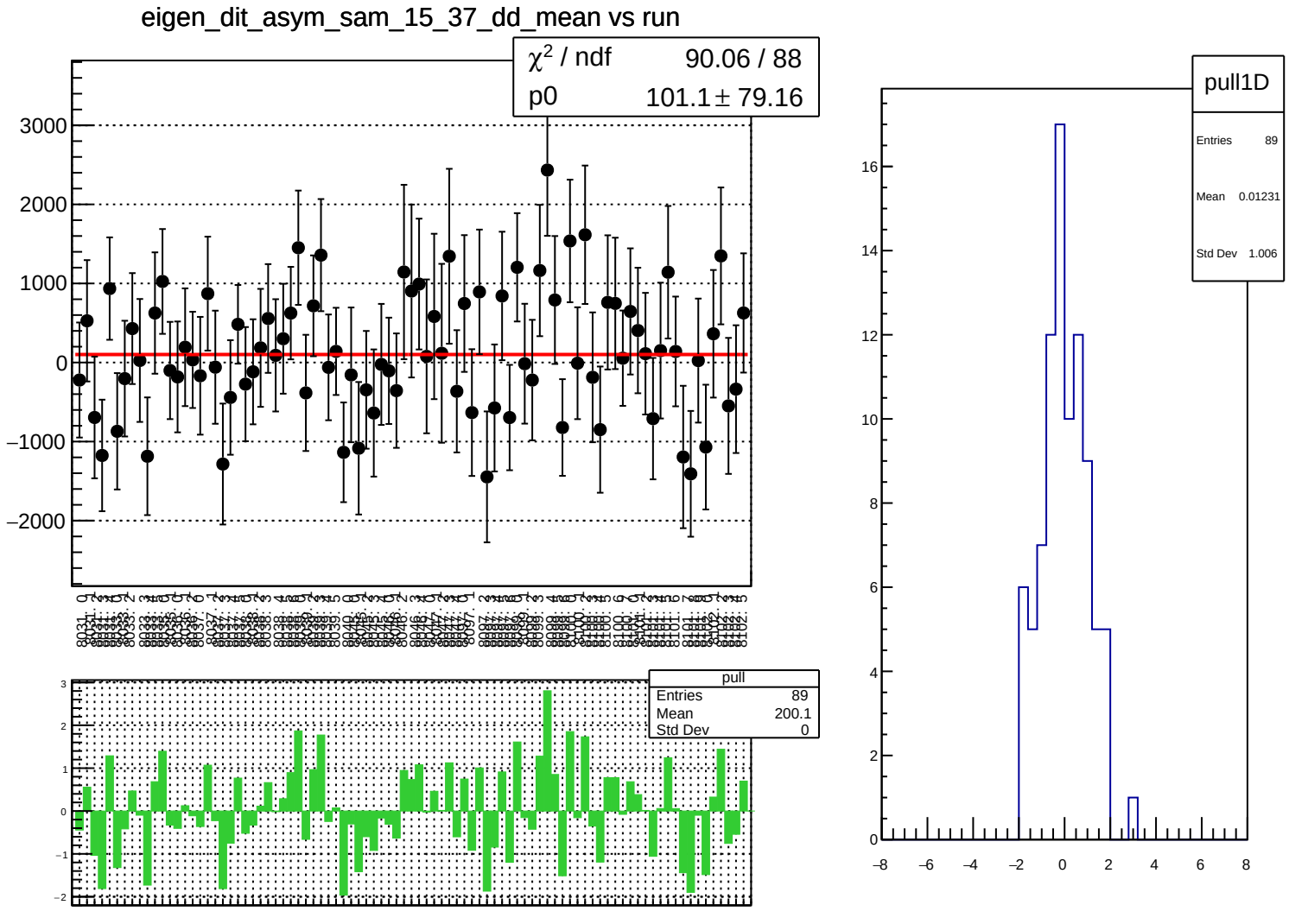
0
2
4
6
8

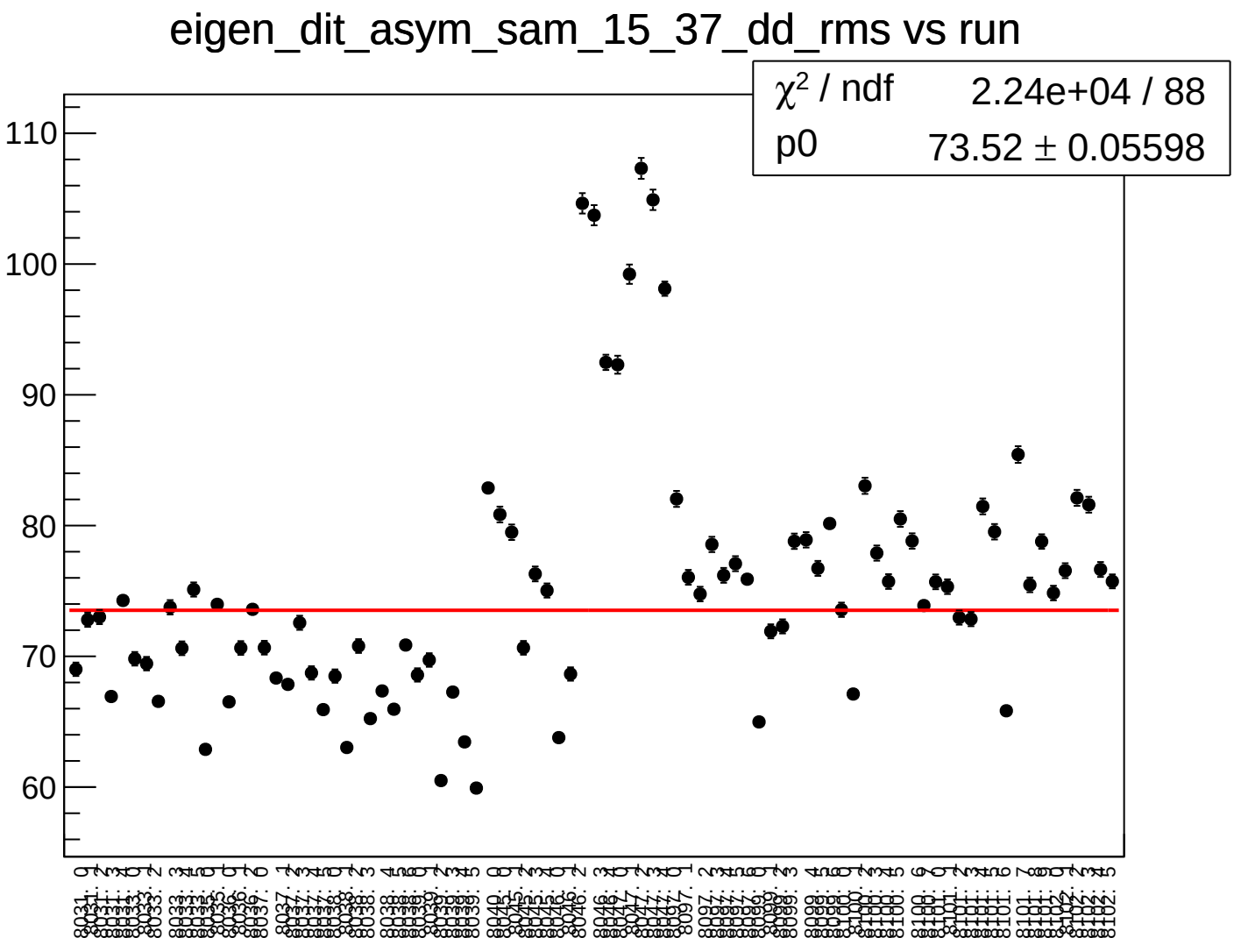

dit_asym_sam_15_37_dd_rms vs run
$\chi^2$ / ndf 2.24e+04 / 88
p0 73.52 ± 0.05598
110
100
90
80
70
60

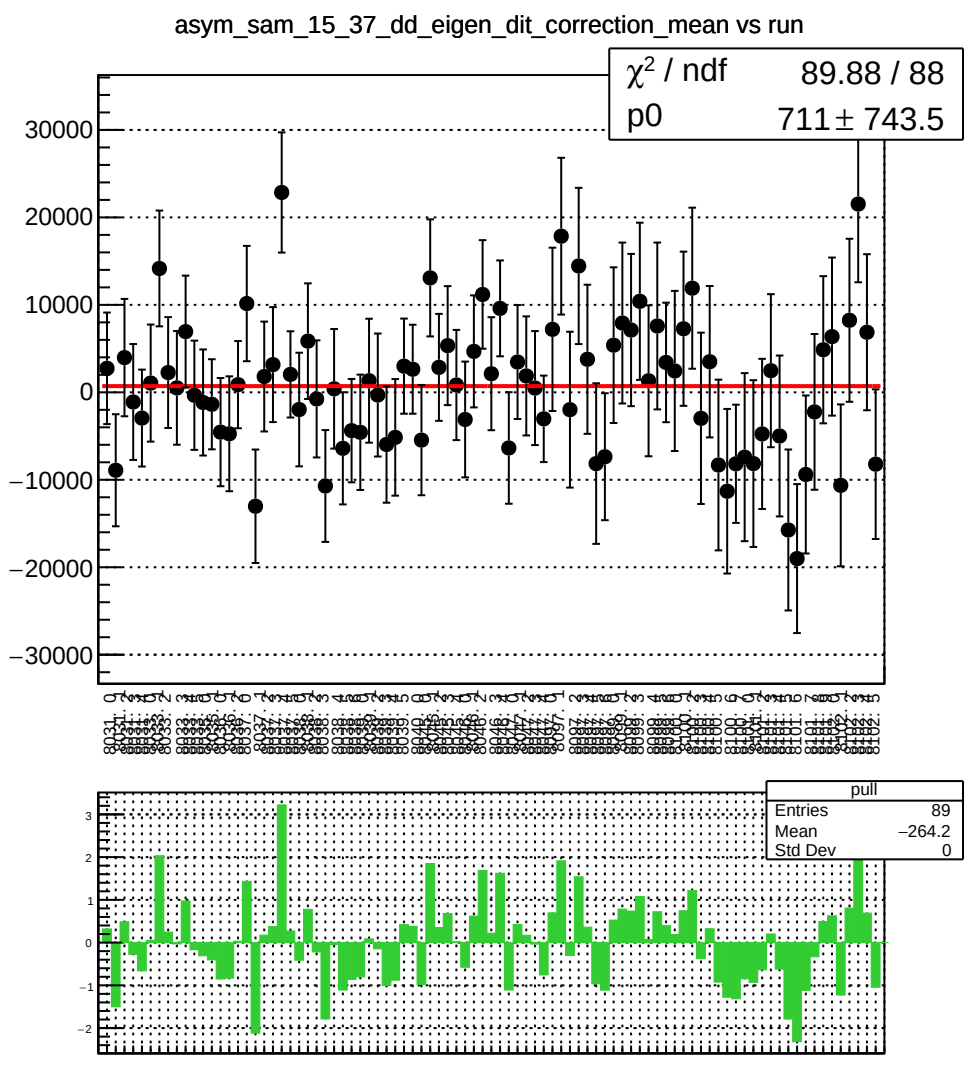

asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 89.88 / 88
p0 711 ± 743.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −264.2
Std Dev 0
3
2
1
0
−1
−2

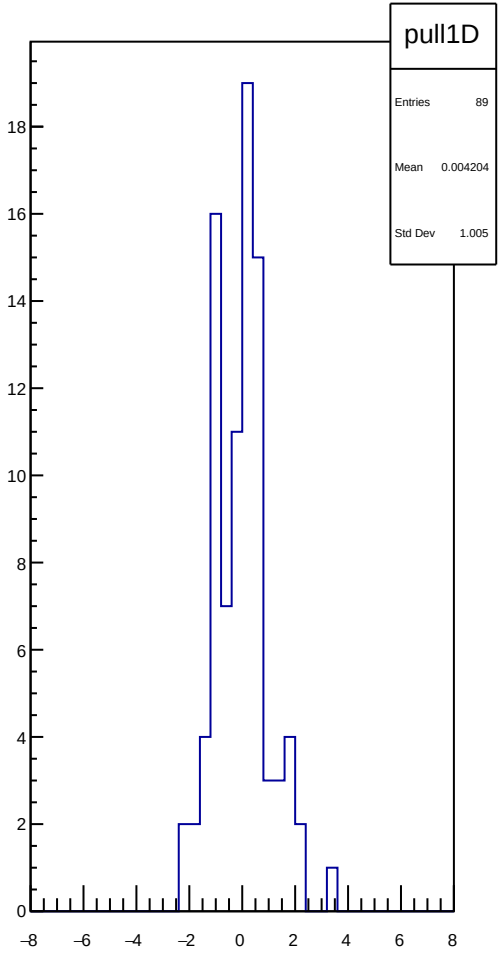

pull1D
Entries 89
Mean 0.004204
Std Dev 1.005
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

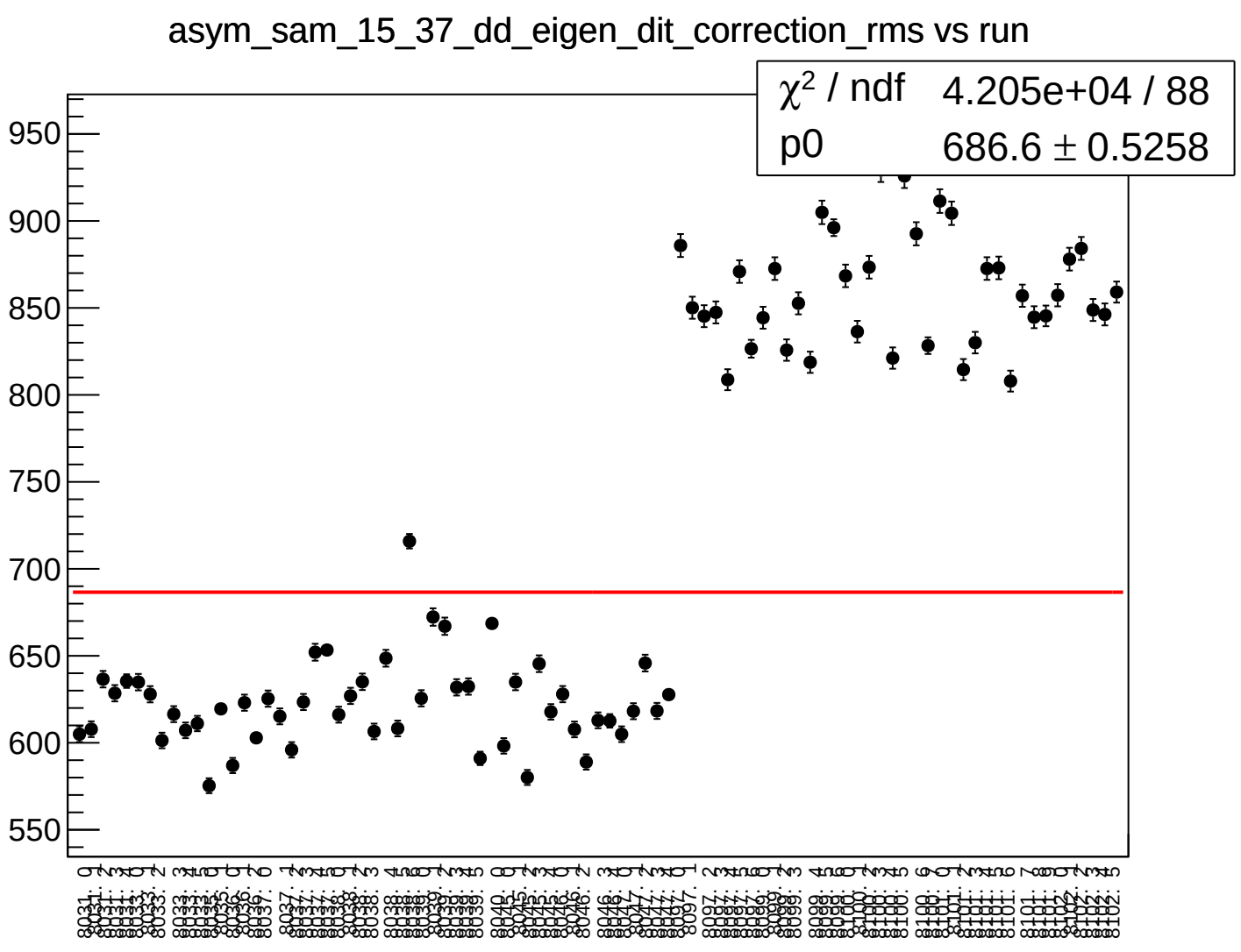

asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 4.205e+04 / 88
p0 686.6 ± 0.5258
950
900
850
800
750
700
650
600
550

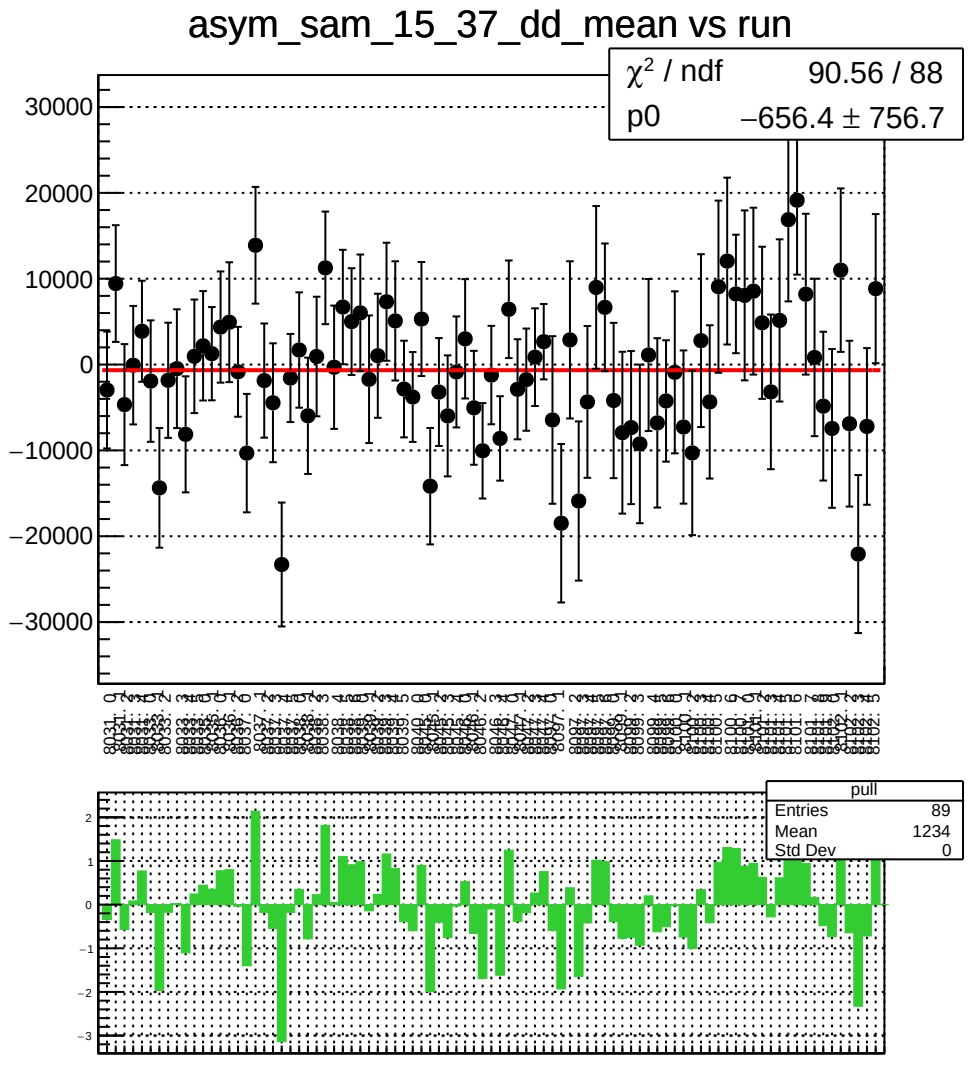

eigen_dit_asym_sam_15_37_dd_mean vs run
$\chi^2$ / ndf 90.06 / 88
p0 101.1 ± 79.16
3000
2000
1000
0
−1000
−2000
pull
Entries 89
Mean 200.1
Std Dev 0
pull1D
Entries 89
Mean 0.01231
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

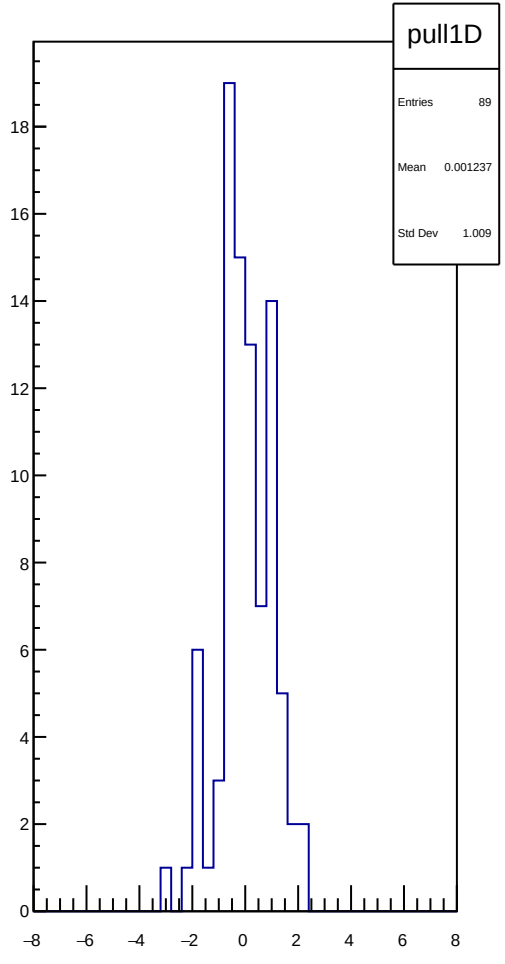

eigen_dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.24e+04 / 88
p0 73.52 ± 0.05598
110
100
90
80
70
60

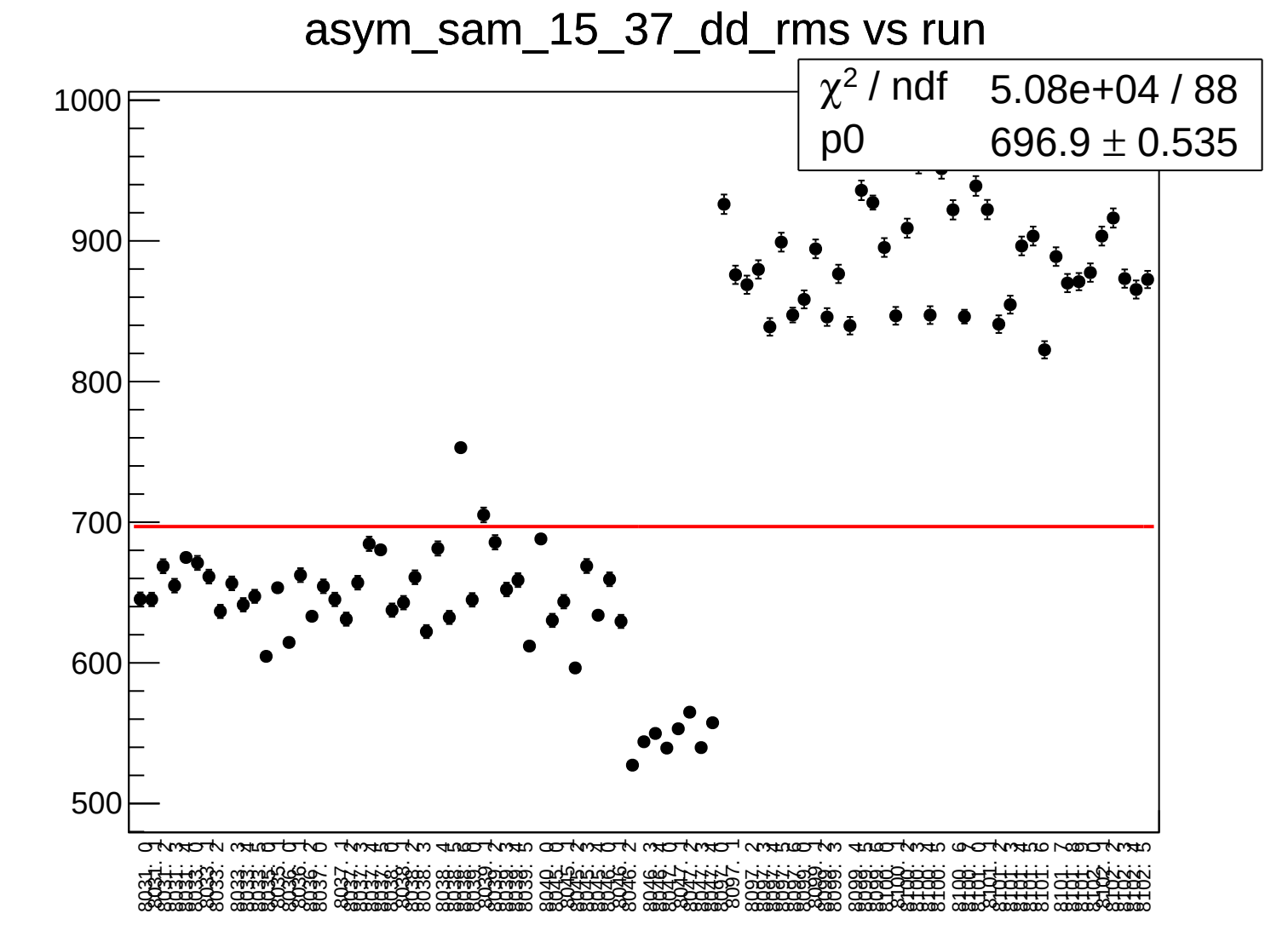

asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 89.88 / 88
p0 711 ± 743.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −264.2
Std Dev 0
3
2
1
0
−1
−2

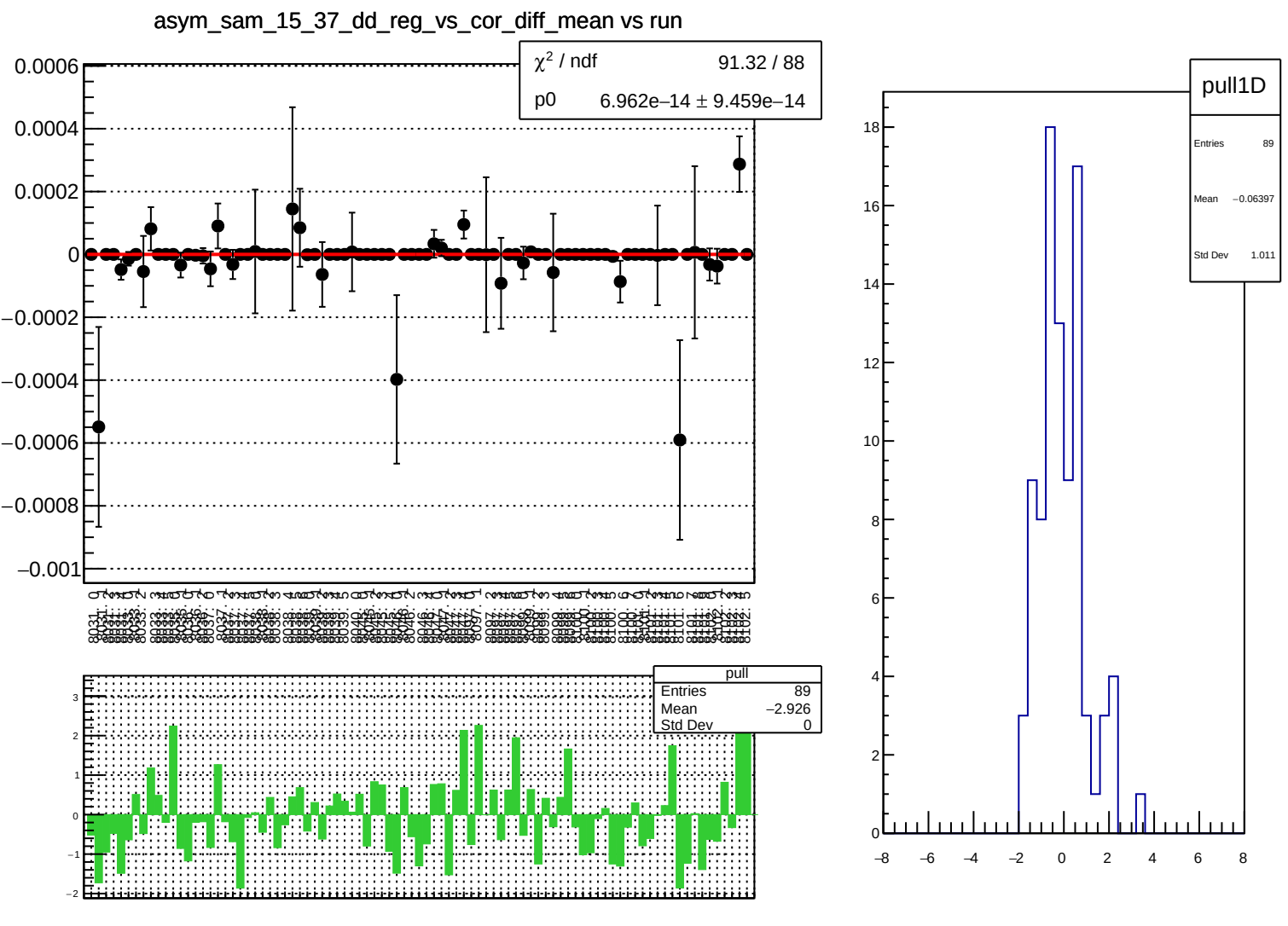

pull1D
Entries 89
Mean 0.004204
Std Dev 1.005
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

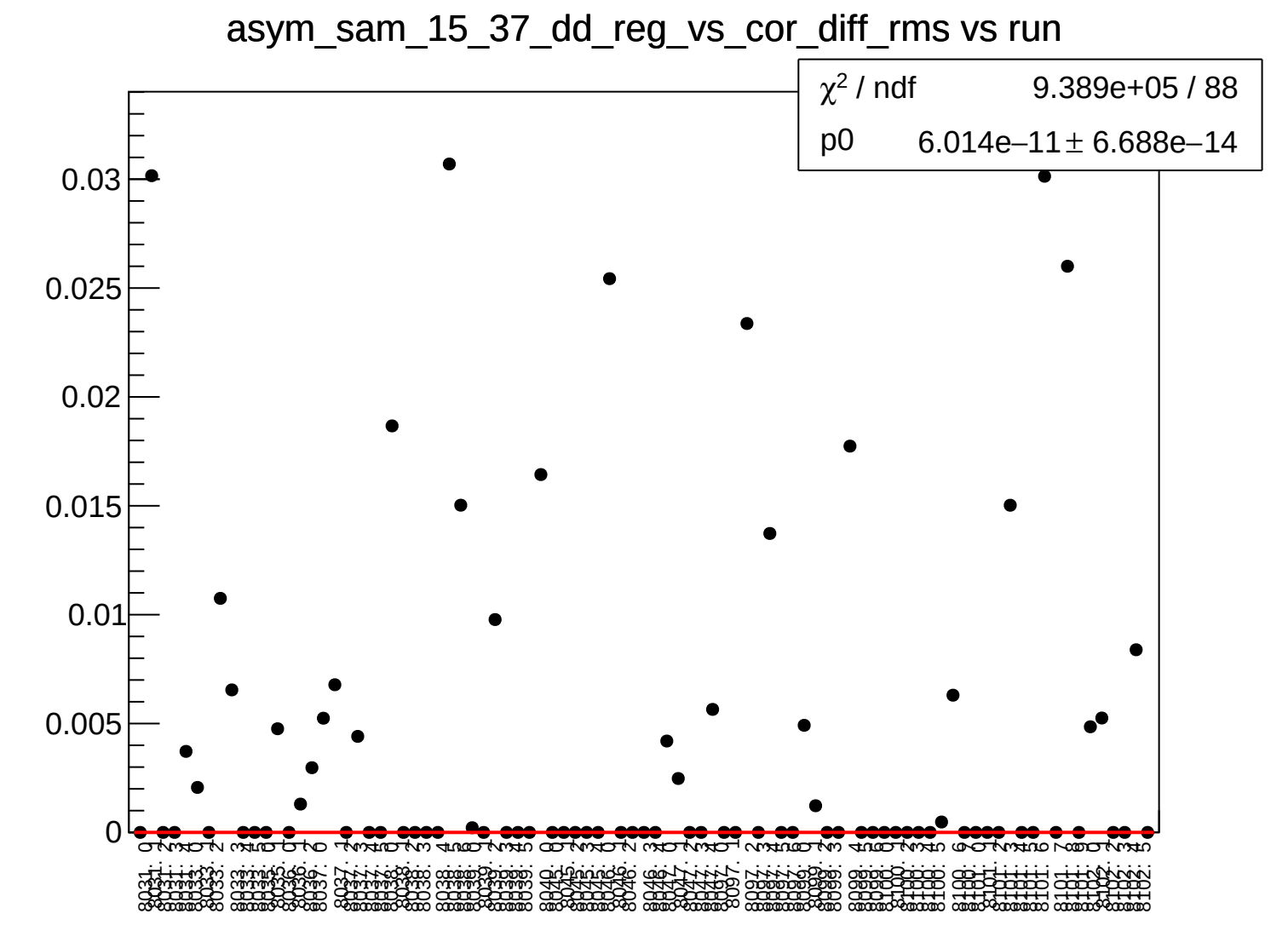

asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 4.205e+04 / 88
p0 686.6 ± 0.5258
950
900
850
800
750
700
650
600
550

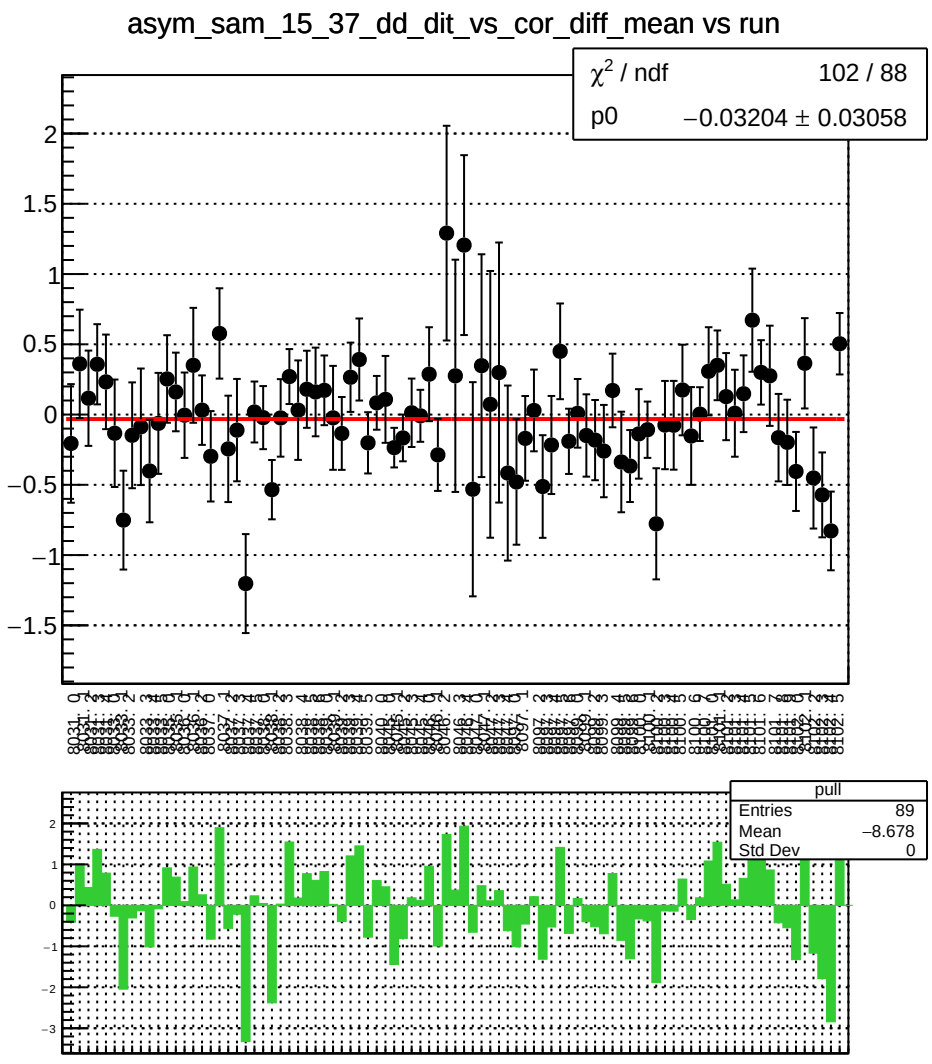

asym_sam_15_37_dd_mean vs run
χ² / ndf 90.56 / 88
p0 −656.4 ± 756.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 1234
Std Dev 0
2
1
0
−1
−2
−3

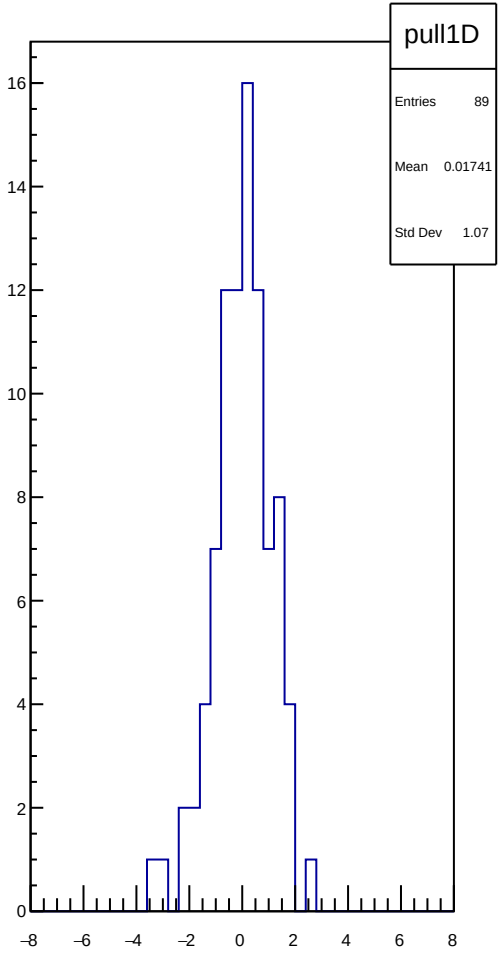

pull1D
Entries 89
Mean 0.001237
Std Dev 1.009
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

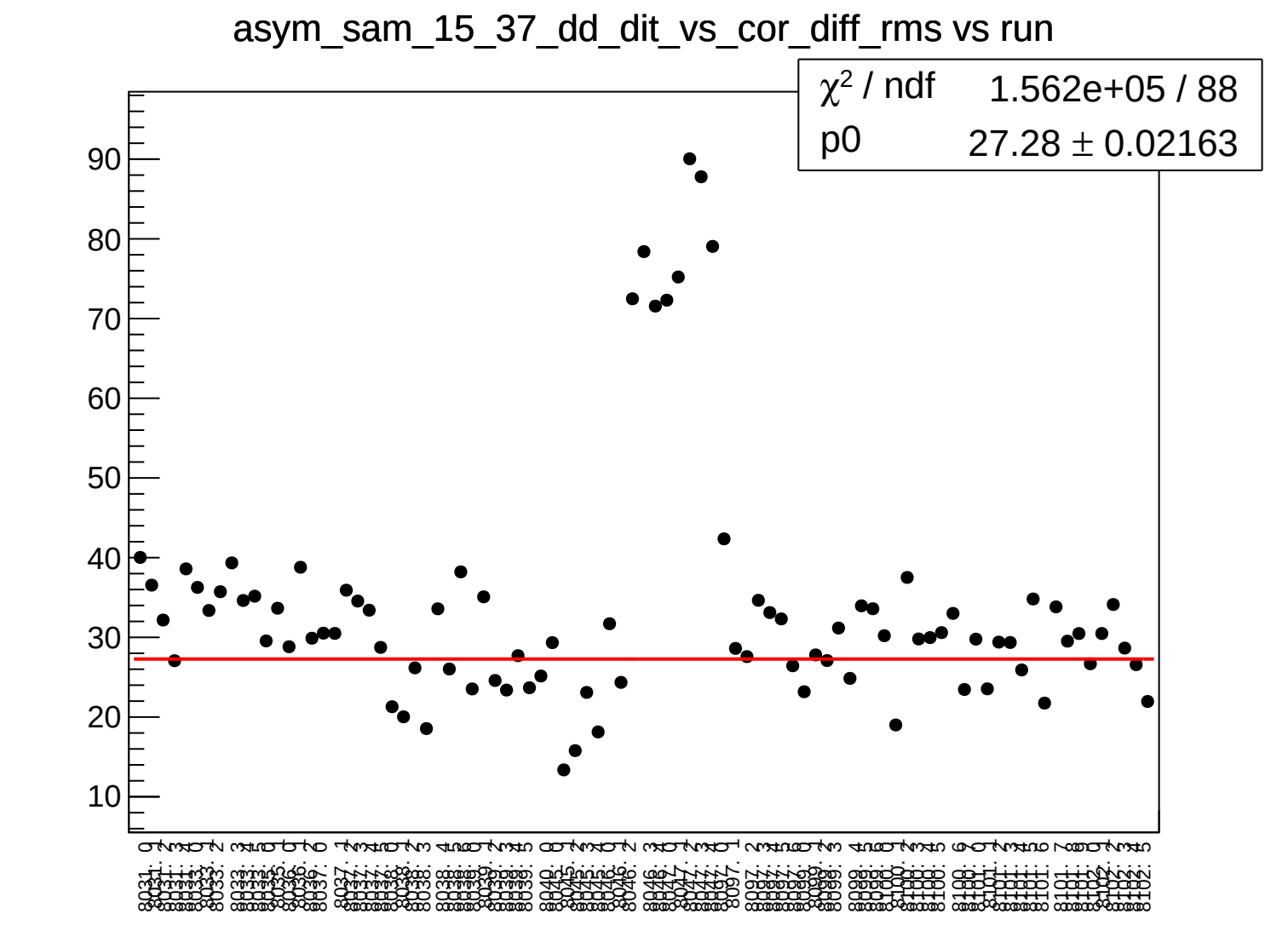

asym_sam_15_37_dd_rms vs run
χ² / ndf 5.08e+04 / 88
p0 696.9 ± 0.535
1000
900
800
700
600
500

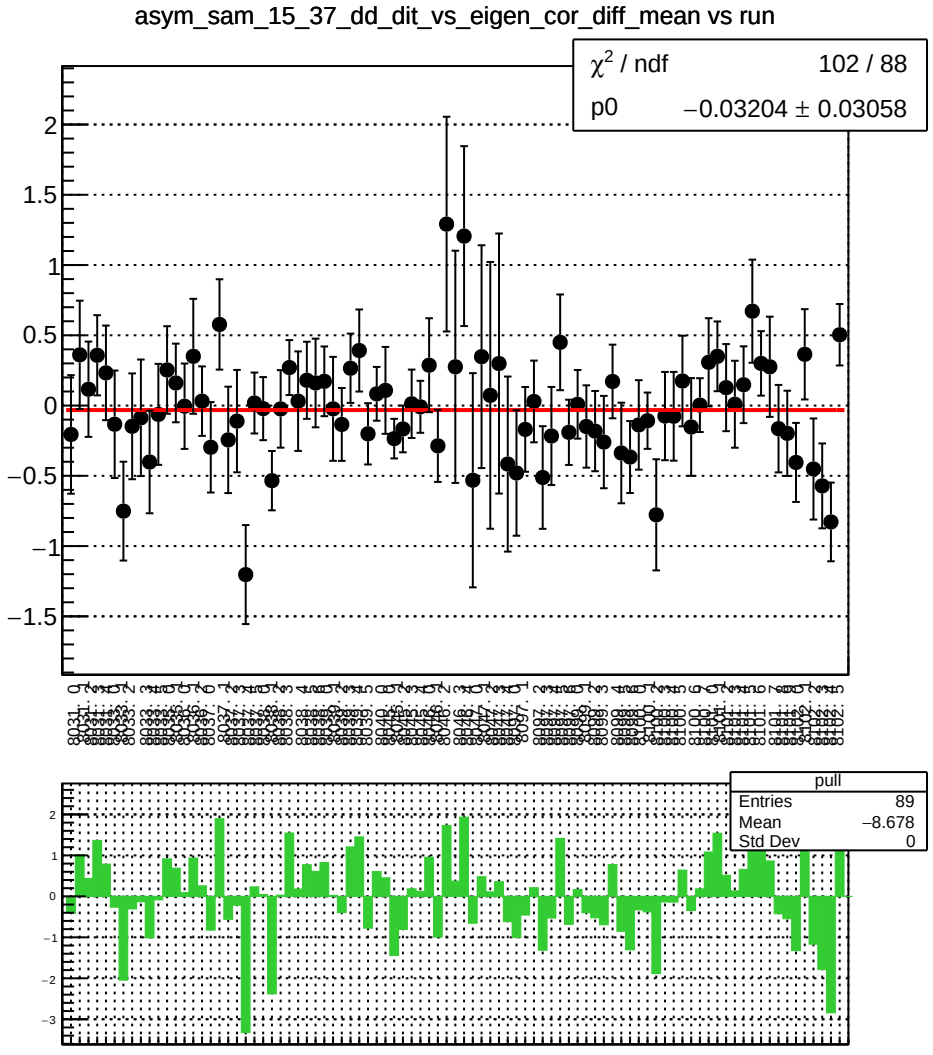

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 91.32 / 88
p0 6.962e−14 ± 9.459e−14
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 89
Mean −2.926
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.06397
Std Dev 1.011
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

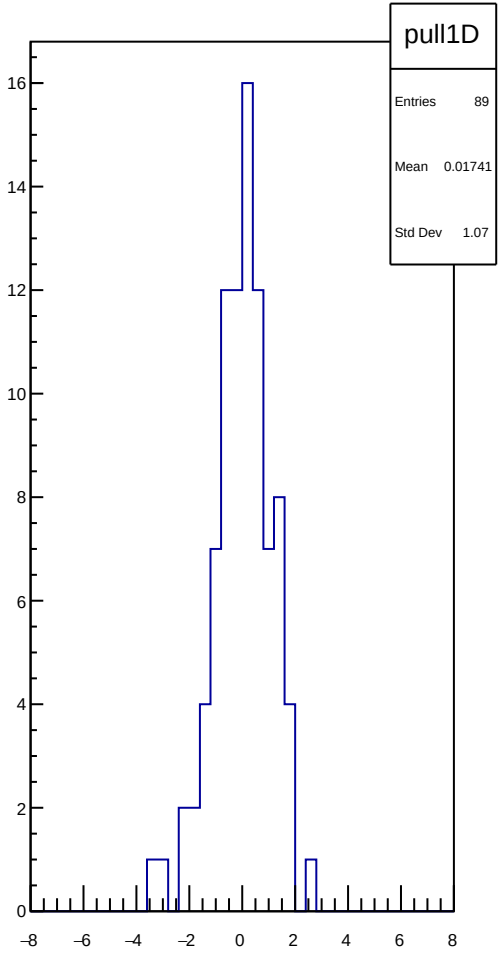

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.389e+05 / 88
p0 6.014e−11 ± 6.688e−14
0.03
0.025
0.02
0.015
0.01
0.005
0

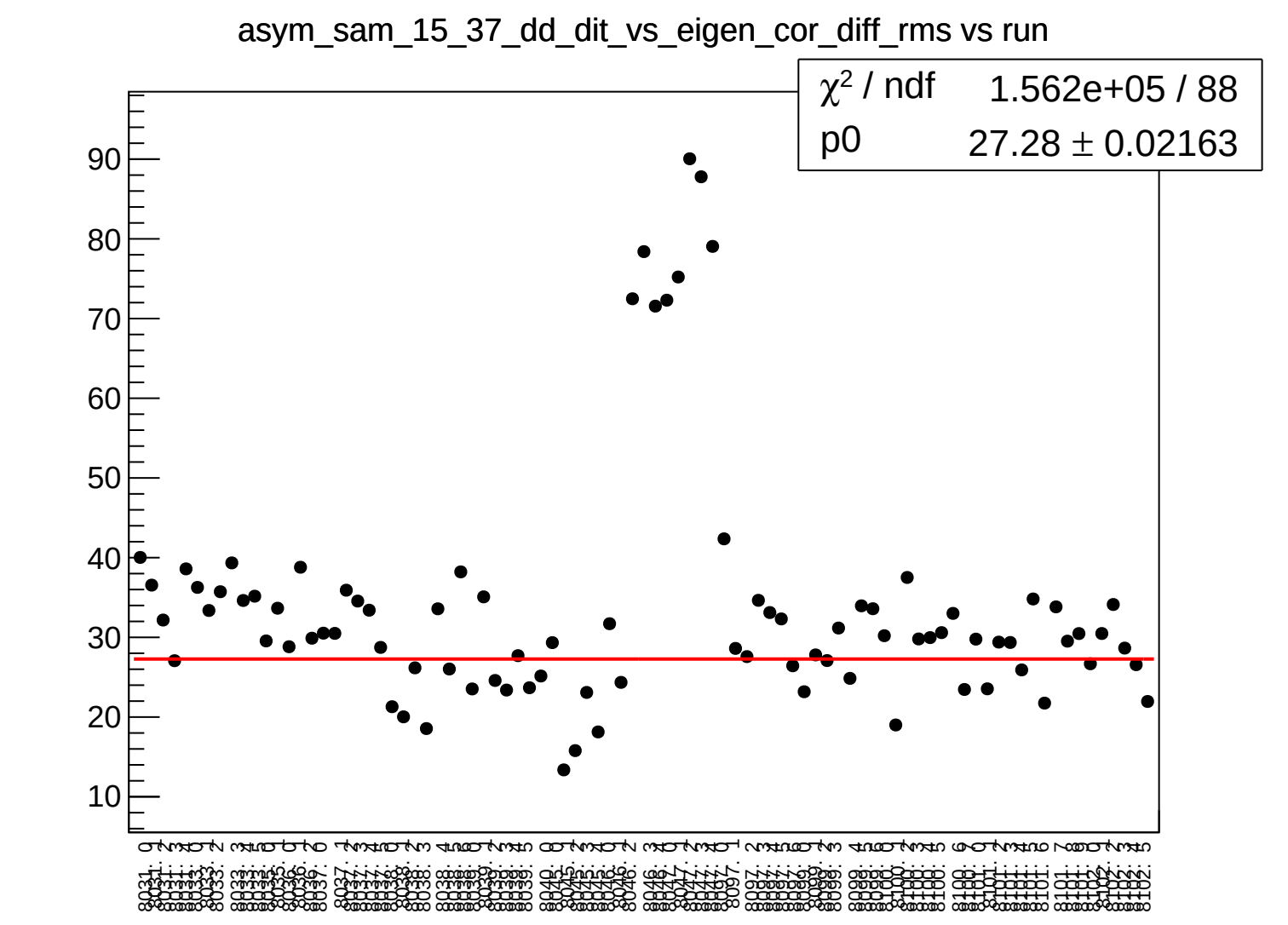

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 102 / 88
p0 −0.03204 ± 0.03058
pull
Entries 89
Mean −8.678
Std Dev 0

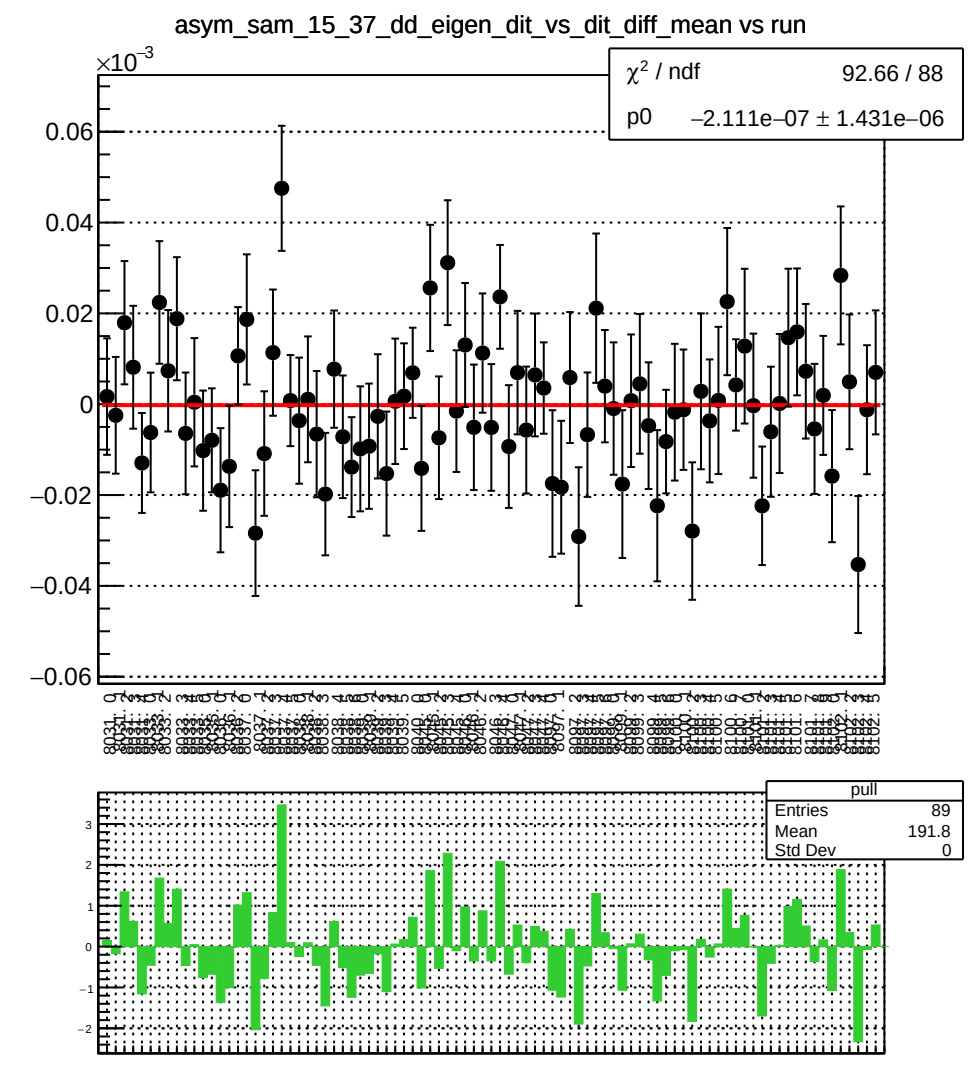

pull1D
Entries 89
Mean 0.01741
Std Dev 1.07

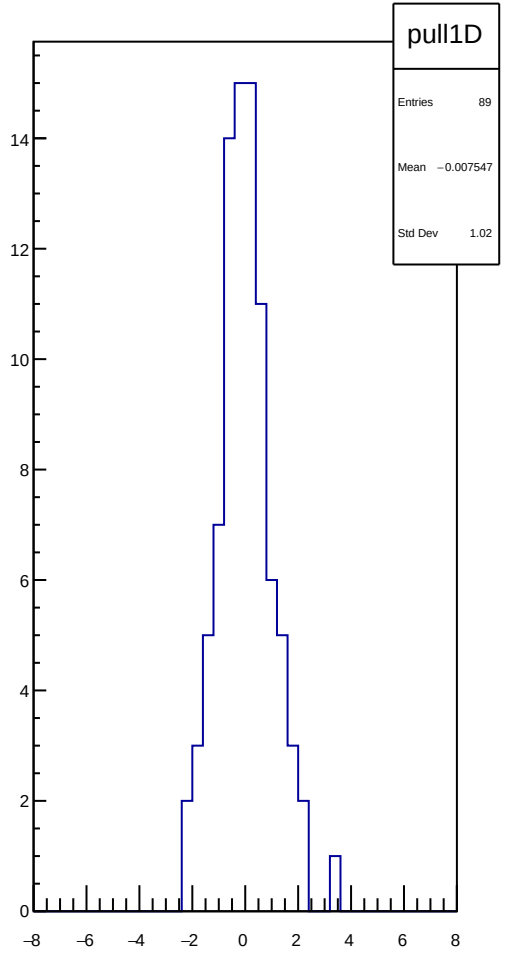

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.562e+05 / 88
p0 27.28 ± 0.02163
90
80
70
60
50
40
30
20
10

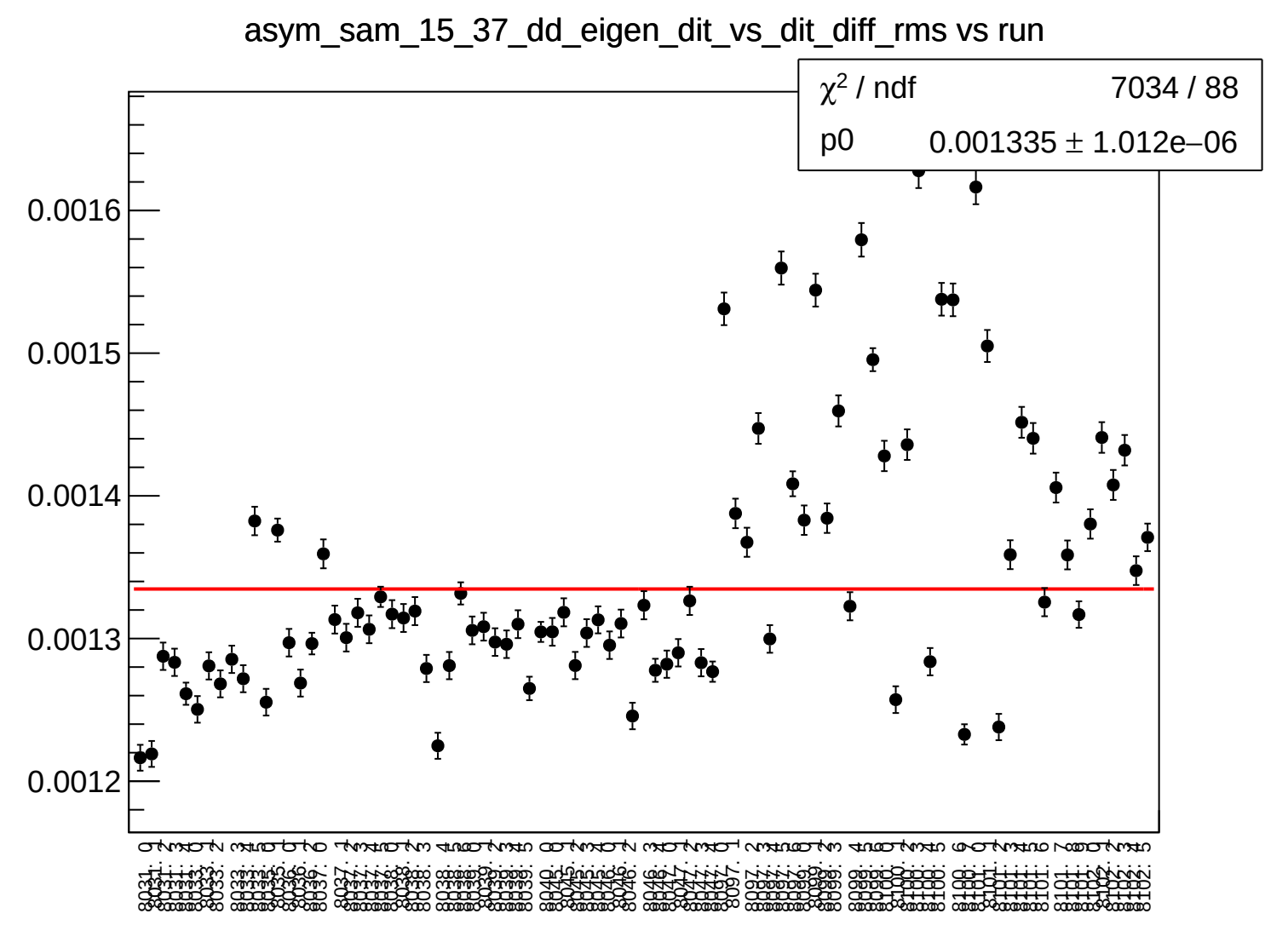

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102 / 88
p0 −0.03204 ± 0.03058
pull
Entries 89
Mean −8.678
Std Dev 0

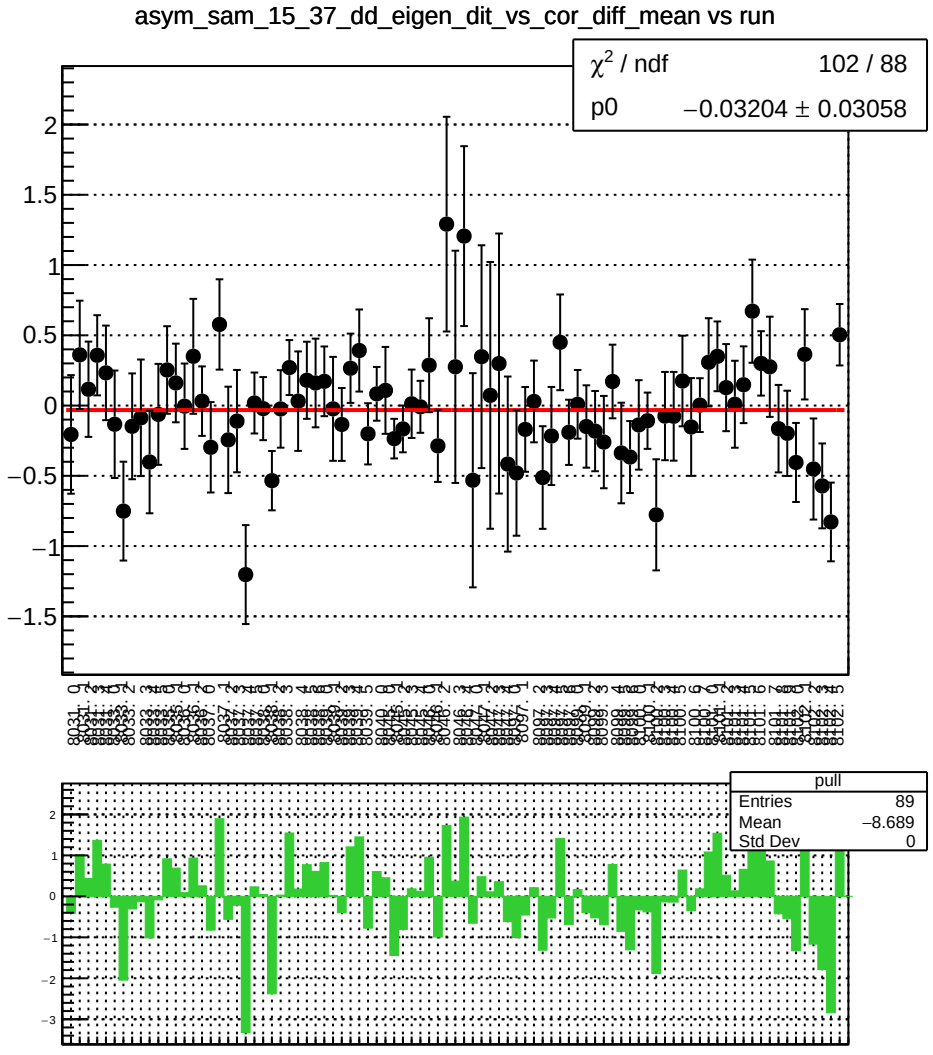

pull1D
Entries 89
Mean 0.01741
Std Dev 1.07

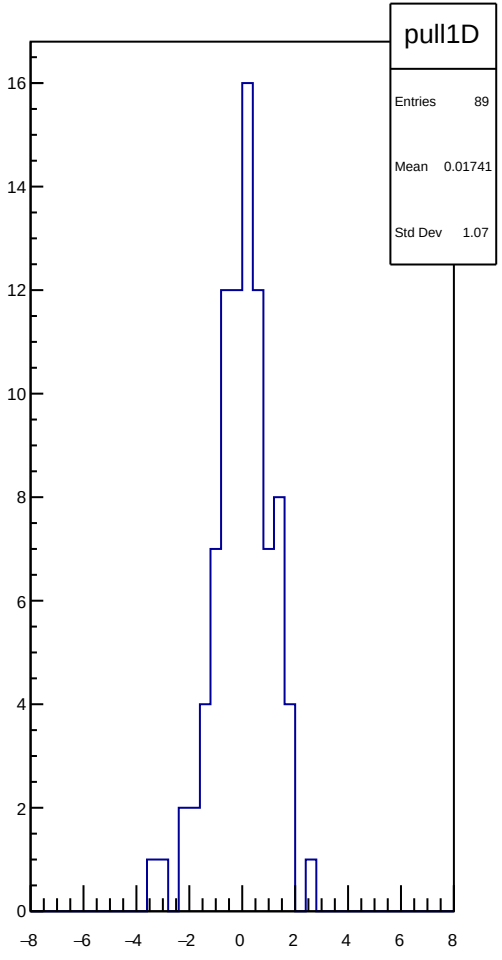

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.562e+05 / 88
p0 27.28 ± 0.02163
90
80
70
60
50
40
30
20
10

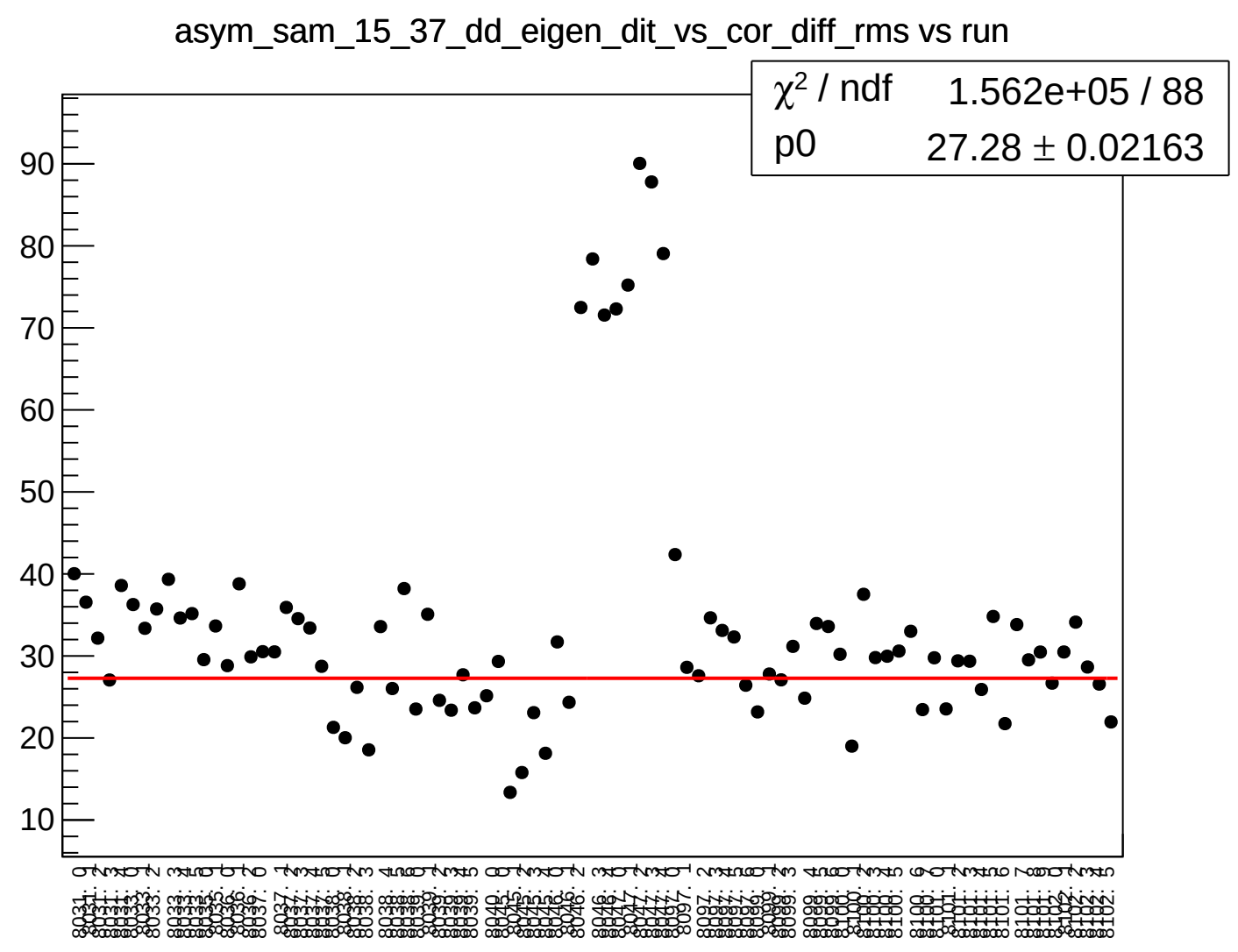

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.66 / 88
p0 −2.111e−07 ± 1.431e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 89
Mean 191.8
Std Dev 0
3
2
1
0
−1
−2

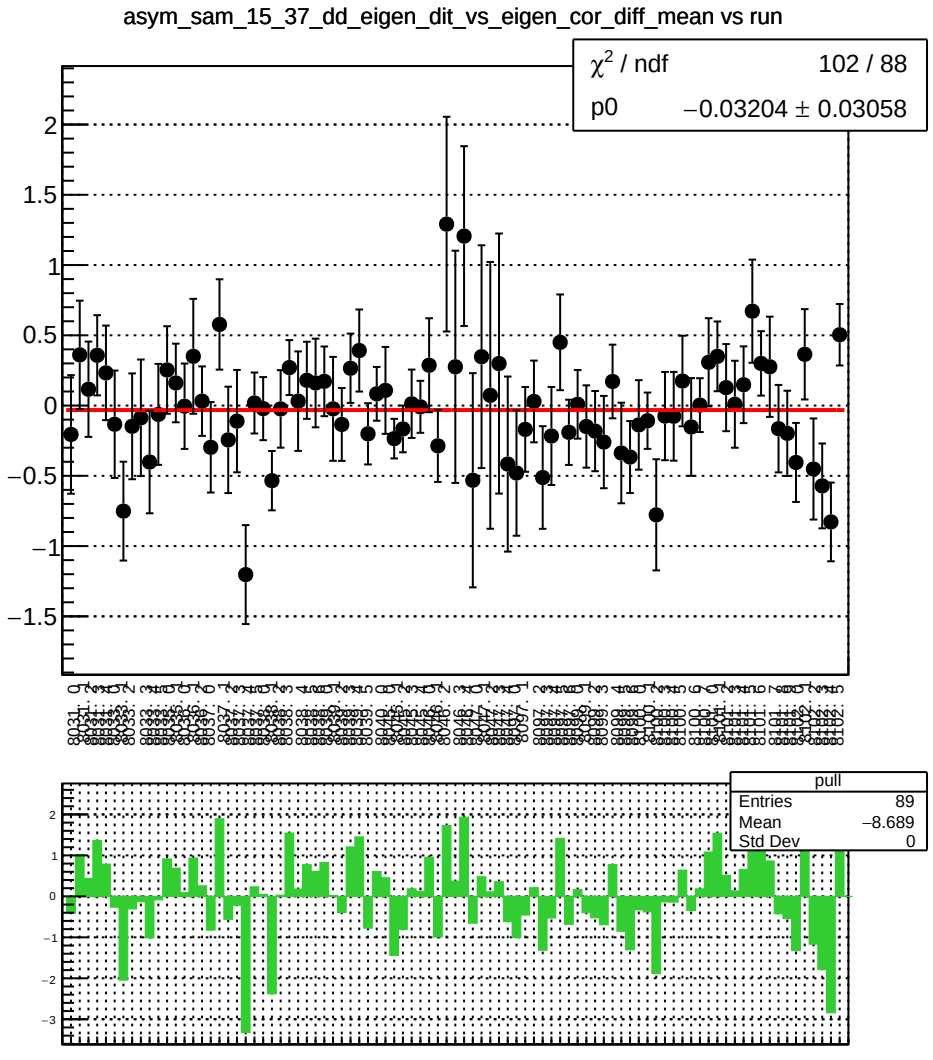

pull1D
Entries 89
Mean −0.007547
Std Dev 1.02
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

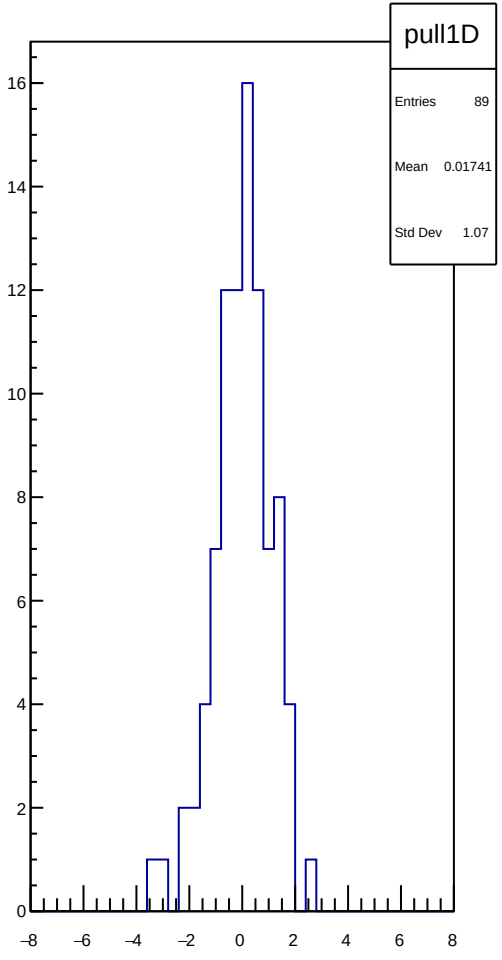

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7034 / 88
p0 0.001335 ± 1.012e−06
0.0016
0.0015
0.0014
0.0013
0.0012

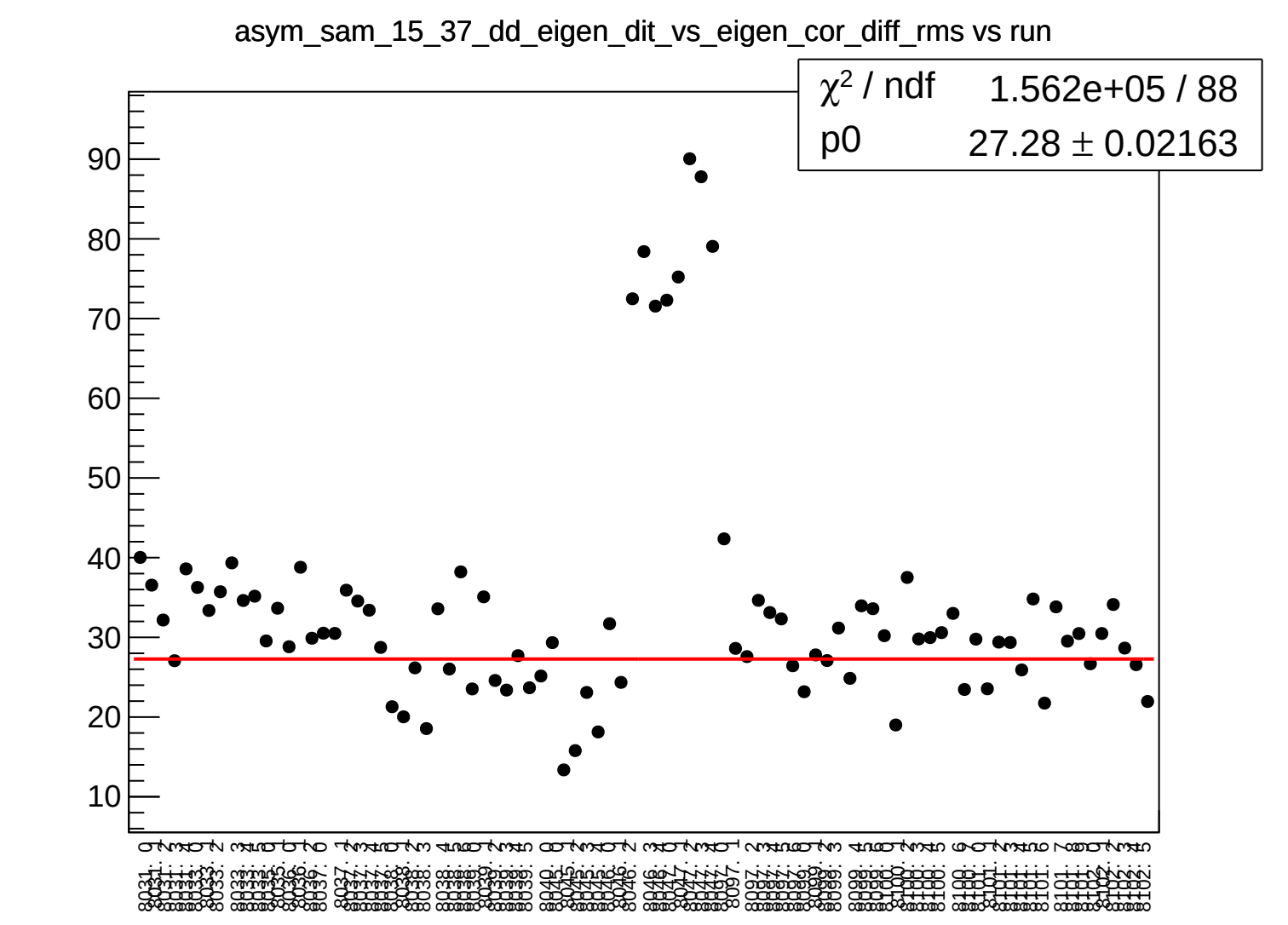

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 102 / 88
p0 −0.03204 ± 0.03058
pull
Entries 89
Mean −8.689
Std Dev 0

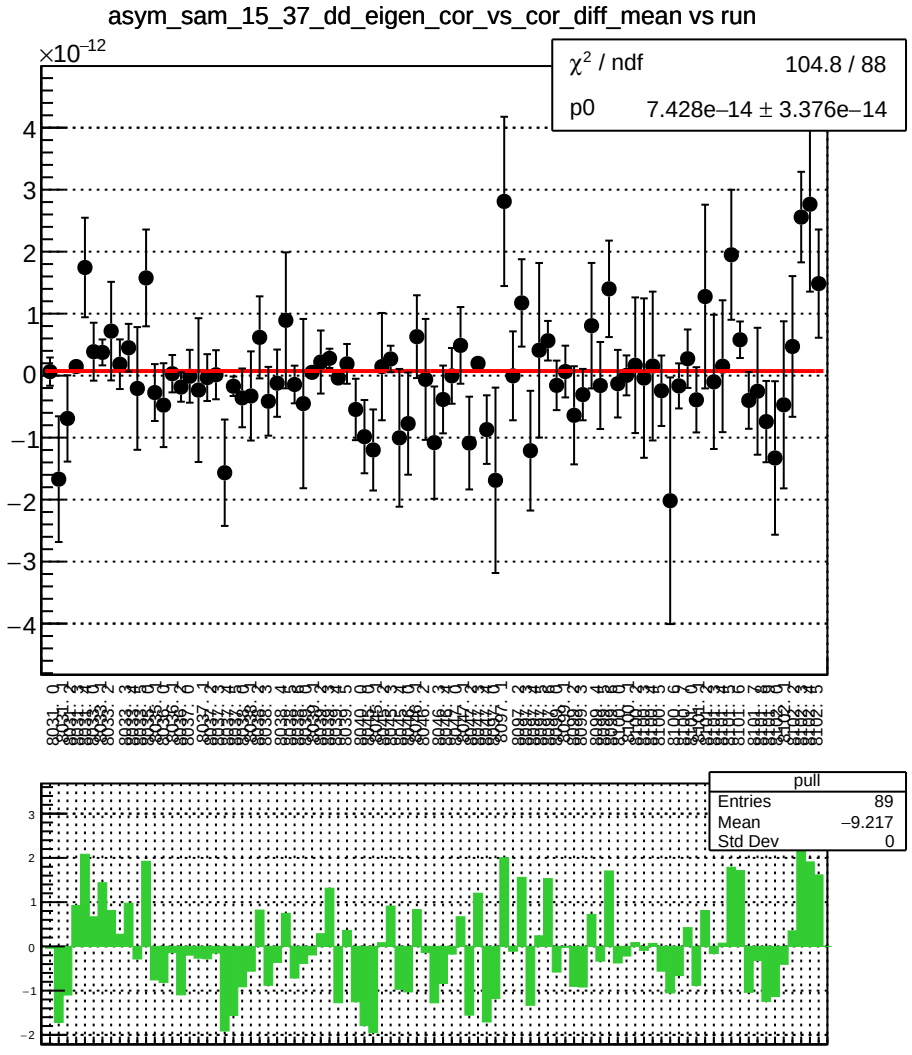

pull1D
Entries 89
Mean 0.01741
Std Dev 1.07

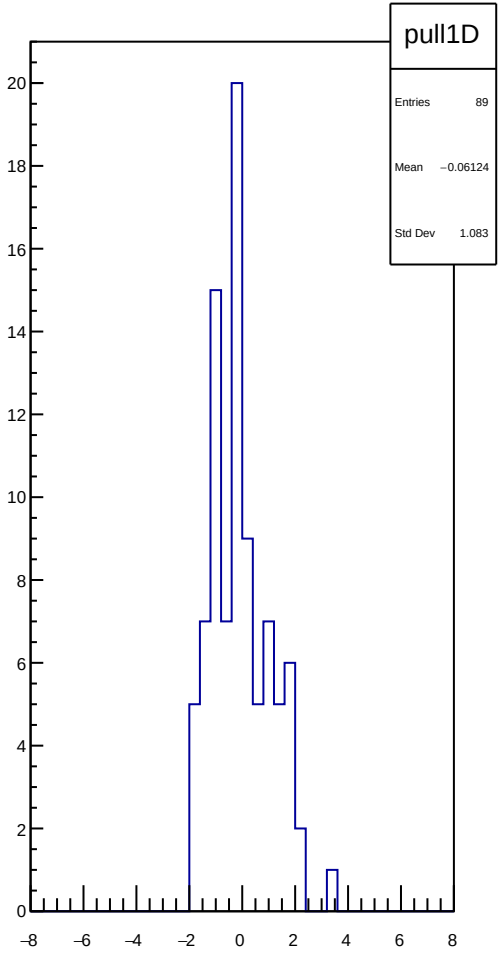

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 1.562e+05 / 88
p0 27.28 ± 0.02163
90
80
70
60
50
40
30
20
10

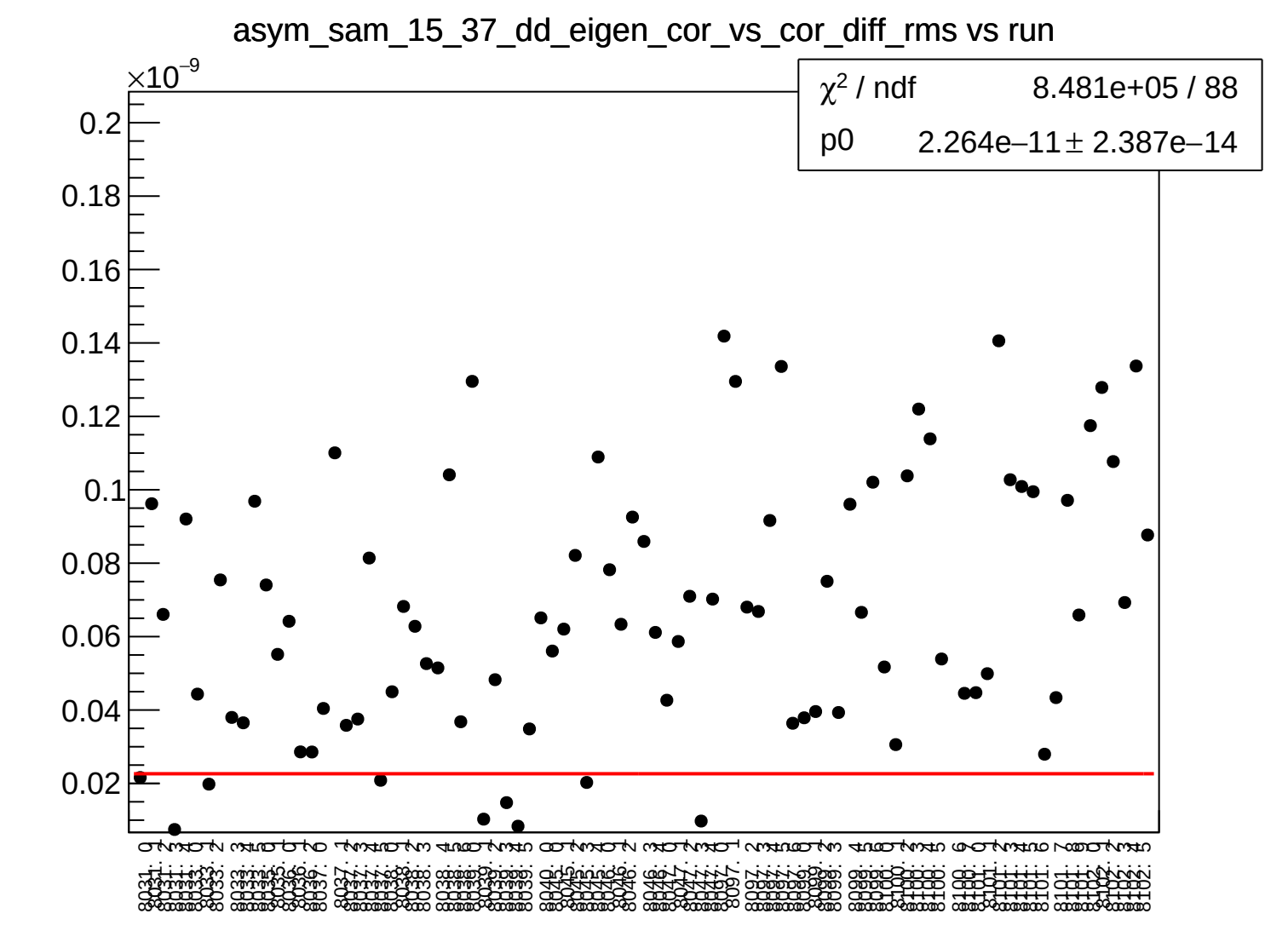

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102 / 88
p0 −0.03204 ± 0.03058
pull
Entries 89
Mean −8.689
Std Dev 0

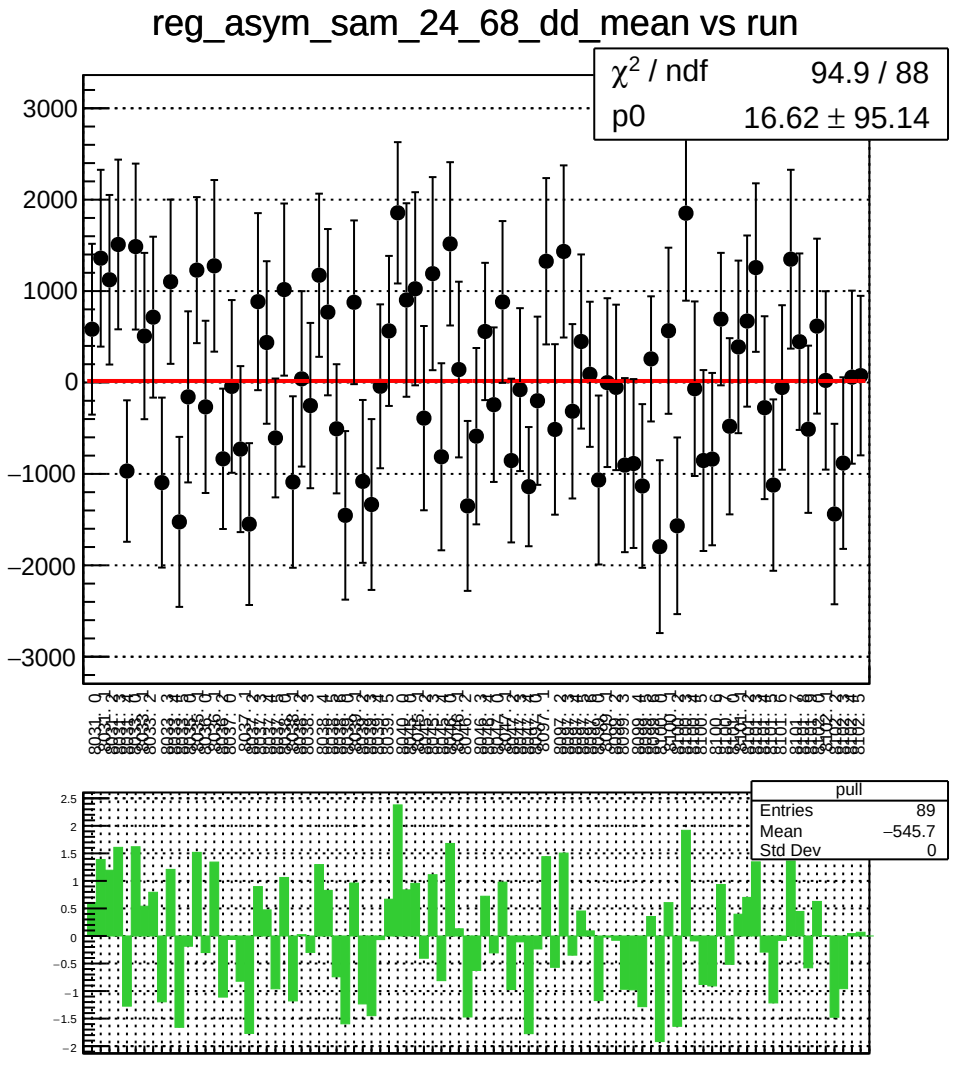

pull1D
Entries 89
Mean 0.01741
Std Dev 1.07

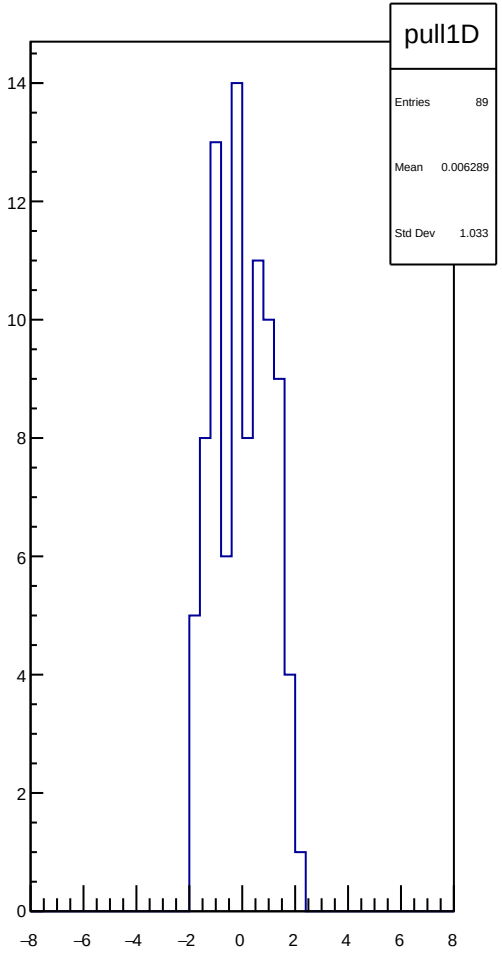

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.562e+05 / 88
p0 27.28 ± 0.02163
90
80
70
60
50
40
30
20
10

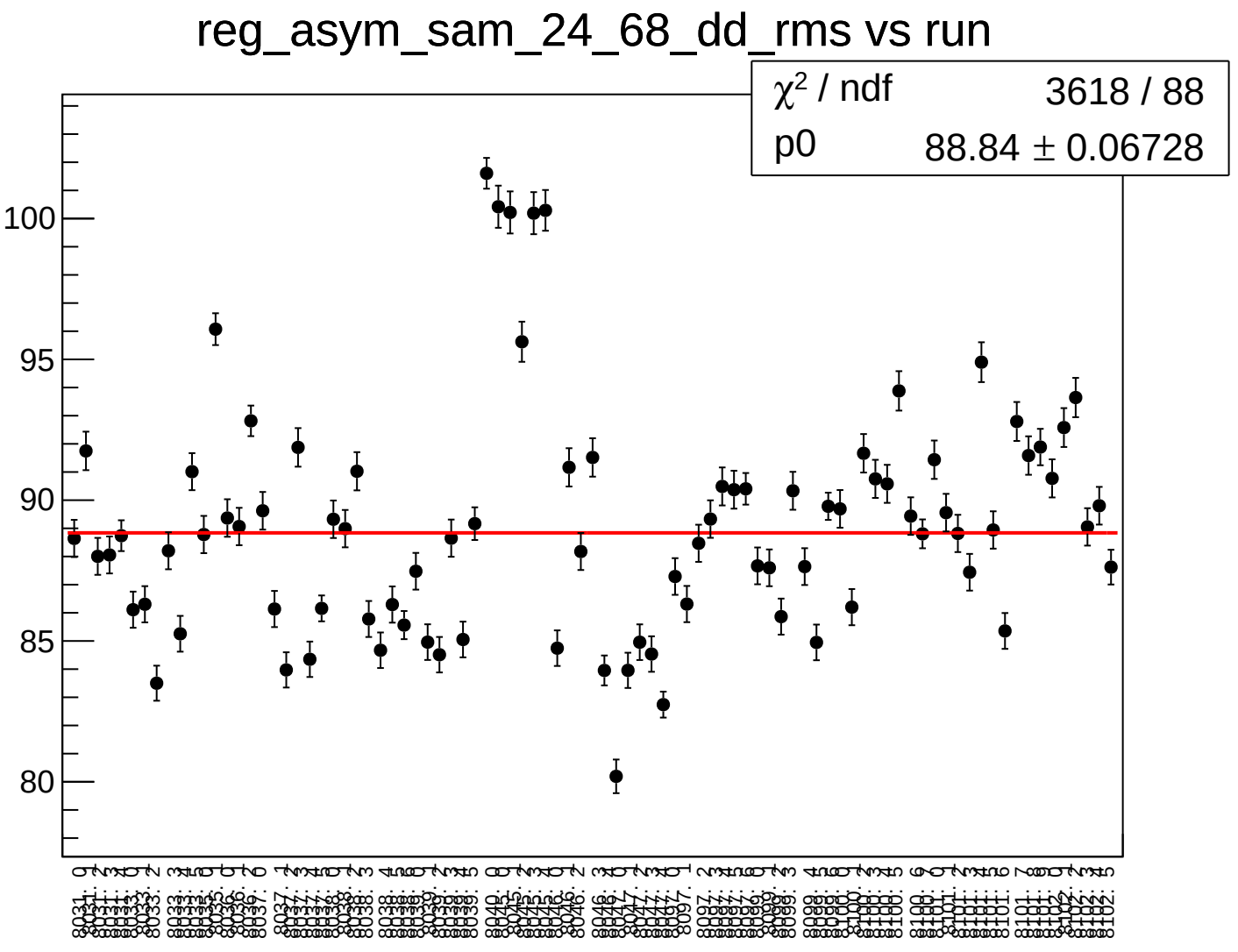

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 104.8 / 88
p0 7.428e−14 ± 3.376e−14
pull
Entries 89
Mean −9.217
Std Dev 0

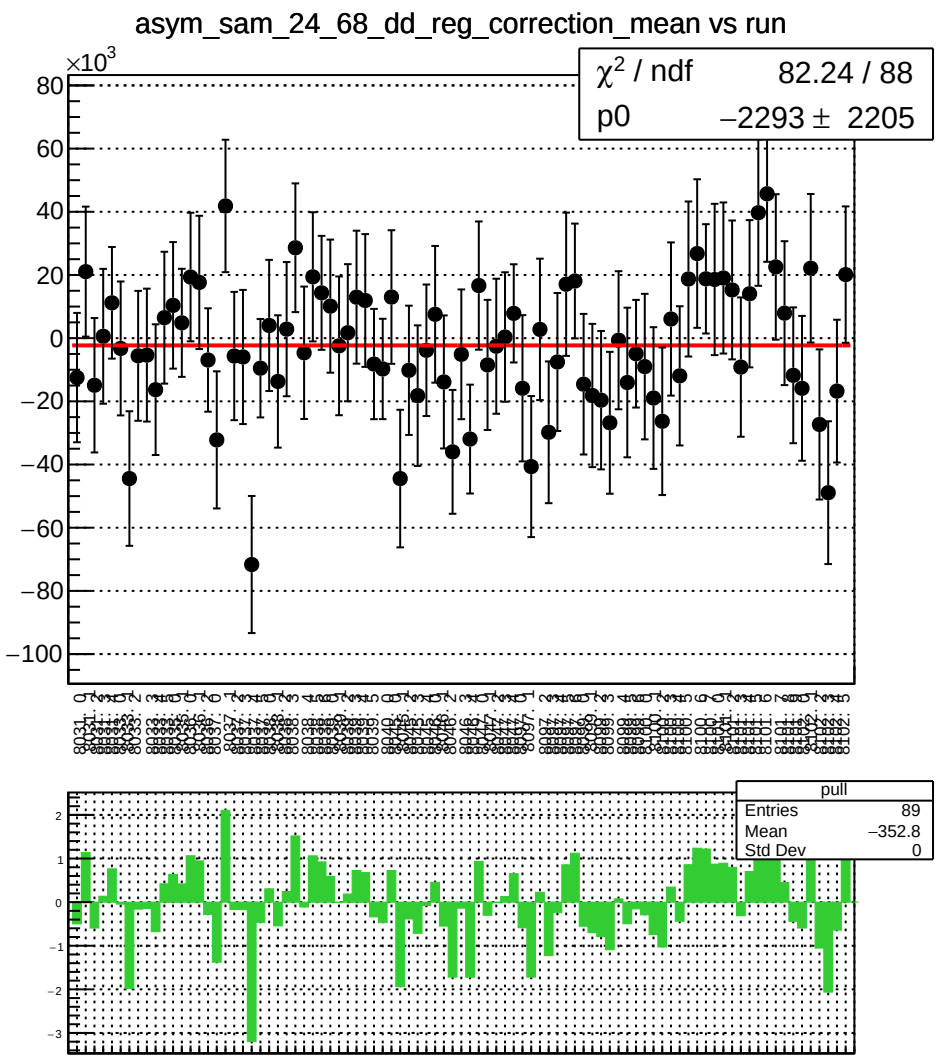

pull1D
Entries 89
Mean −0.06124
Std Dev 1.083

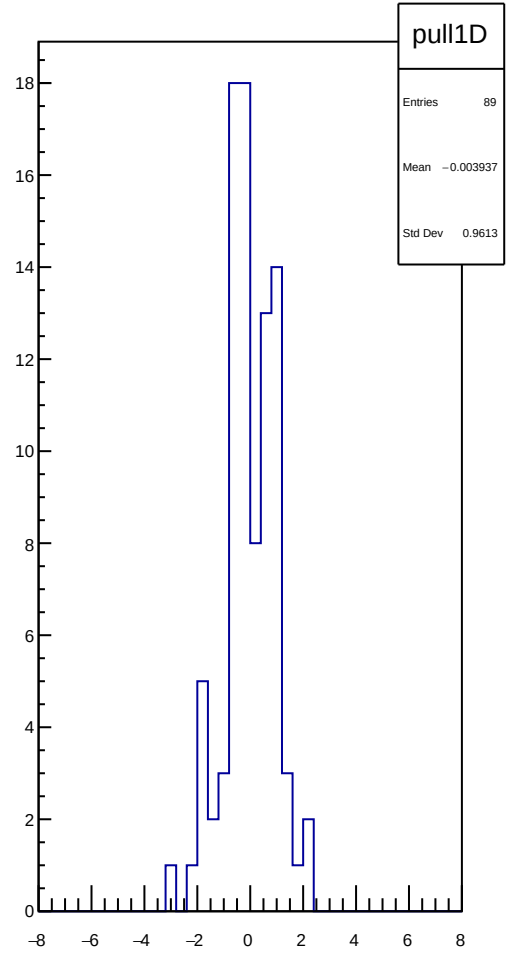

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.481e+05 / 88
p0 2.264e−11 ± 2.387e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

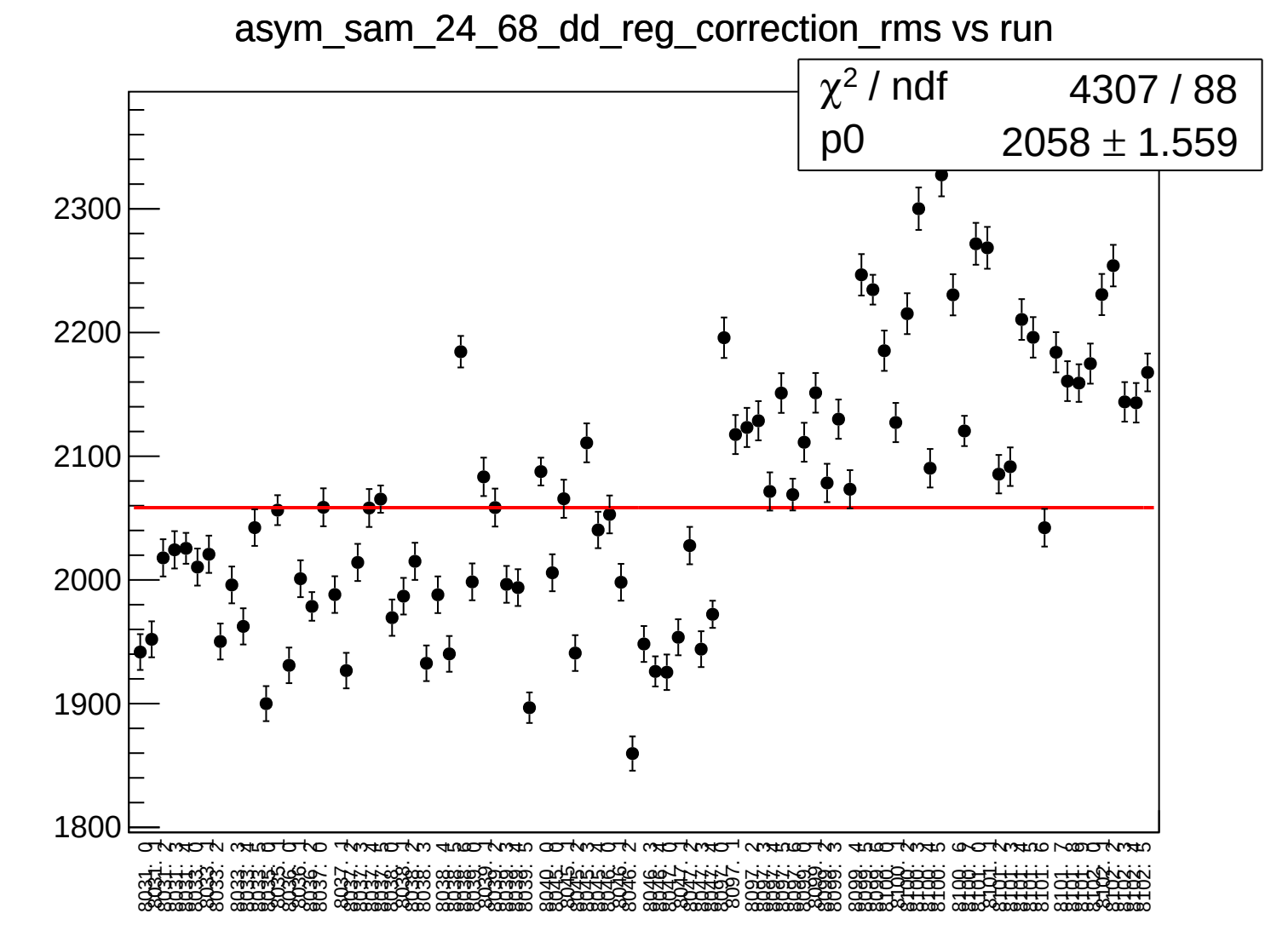

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 94.9 / 88
p0 16.62 ± 95.14
pull
Entries 89
Mean −545.7
Std Dev 0

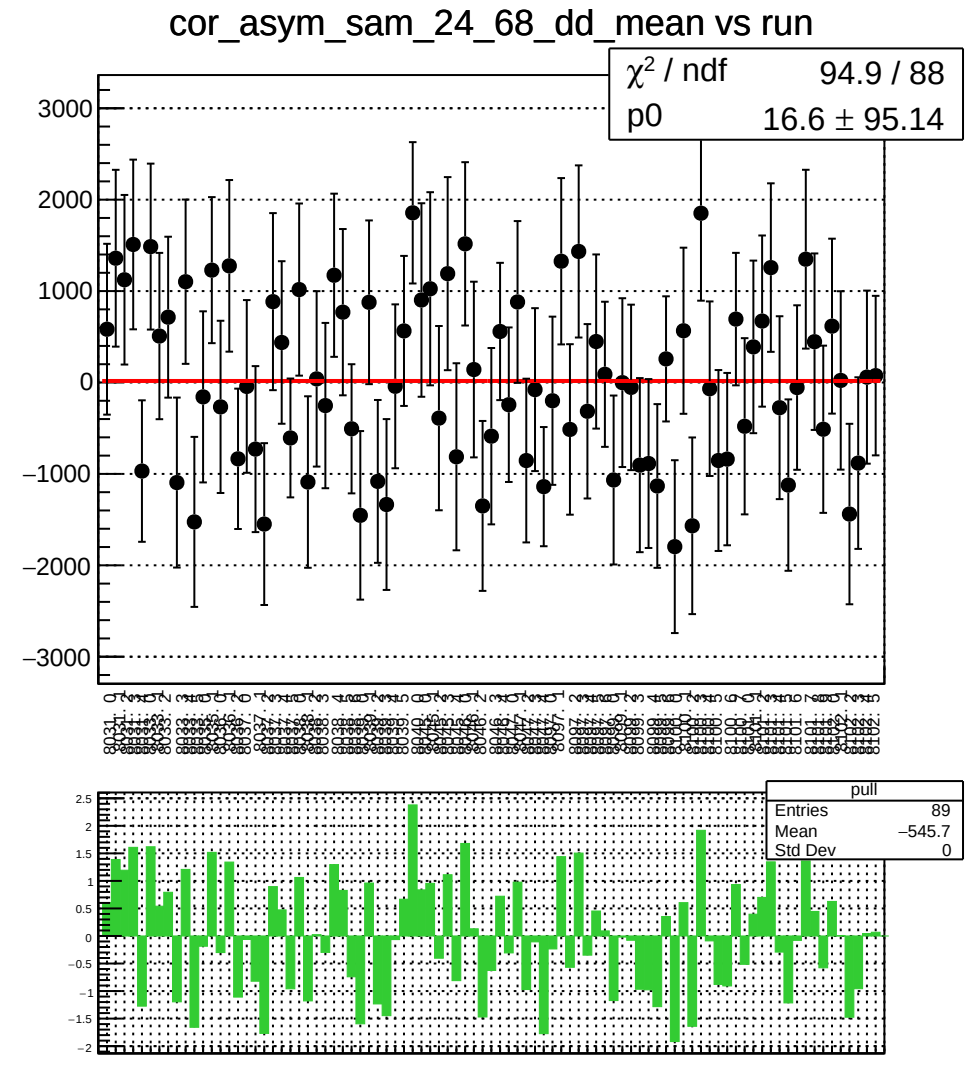

pull1D
Entries 89
Mean 0.006289
Std Dev 1.033

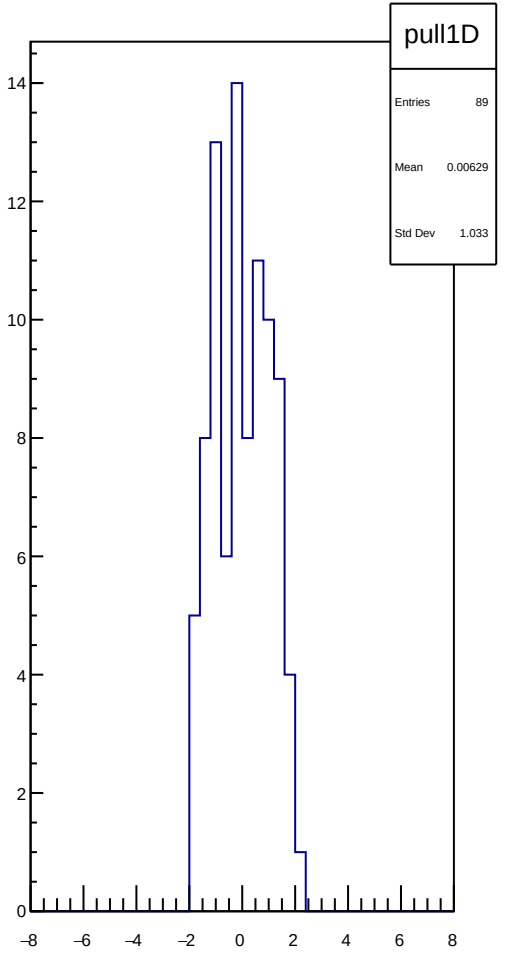

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 3618 / 88
p0 88.84 ± 0.06728
100
95
90
85
80

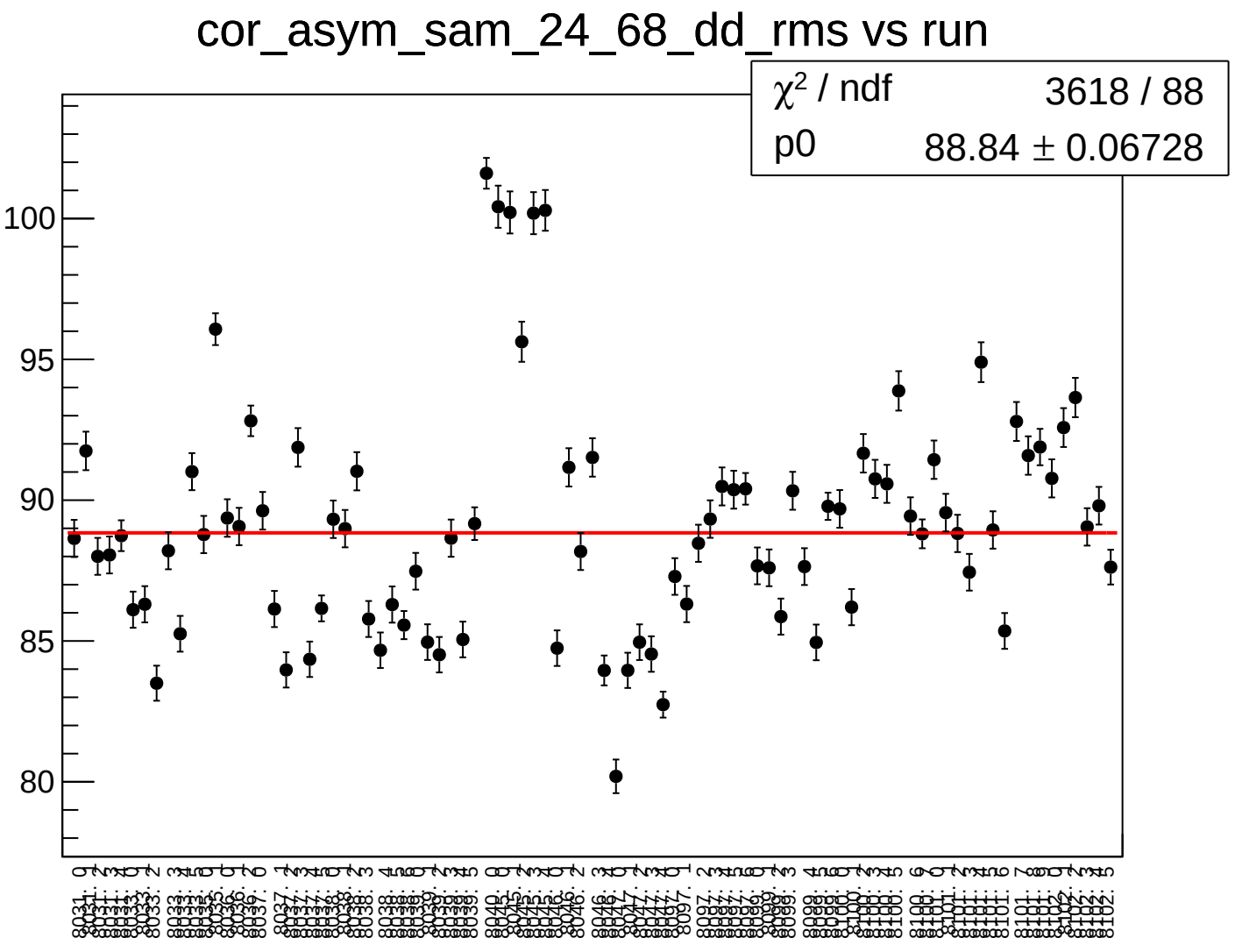

asym_sam_24_68_dd_reg_correction_mean vs run
×10^3
χ² / ndf 82.24 / 88
p0 −2293 ± 2205
pull
Entries 89
Mean −352.8
Std Dev 0

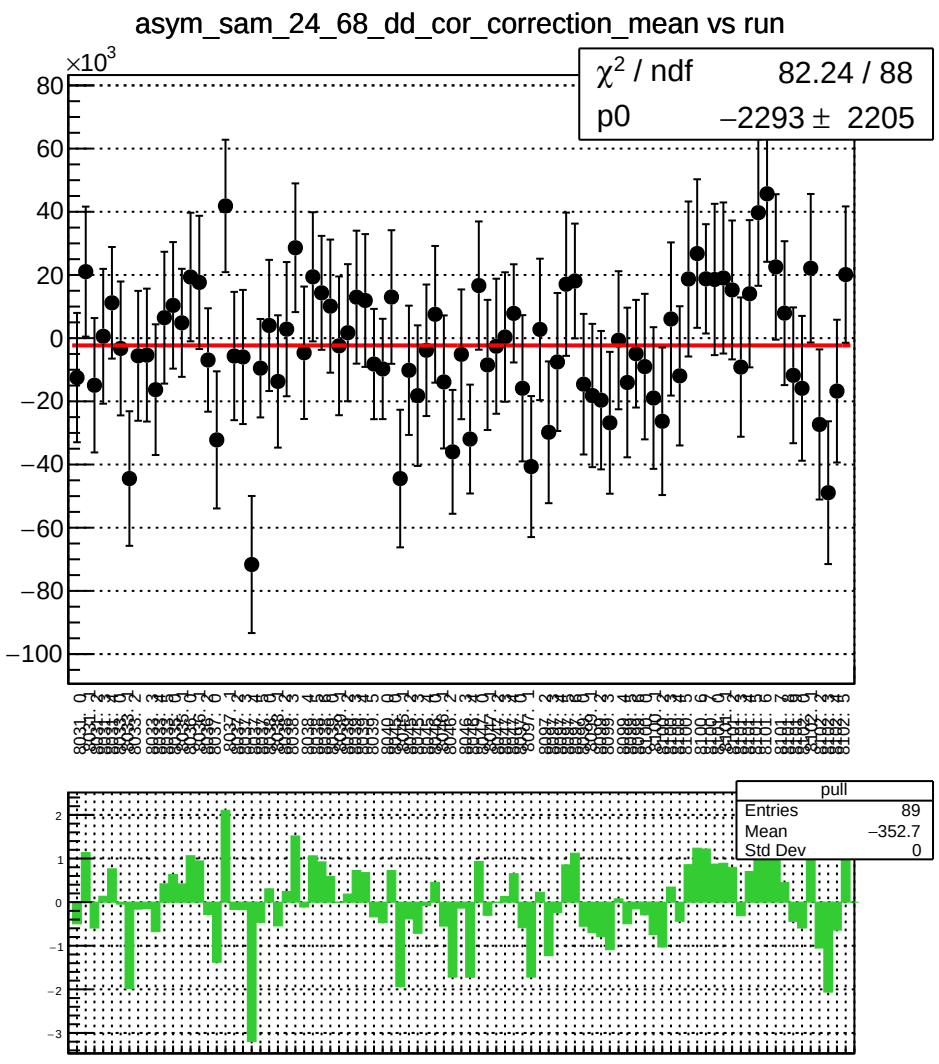

pull1D
Entries 89
Mean −0.003937
Std Dev 0.9613

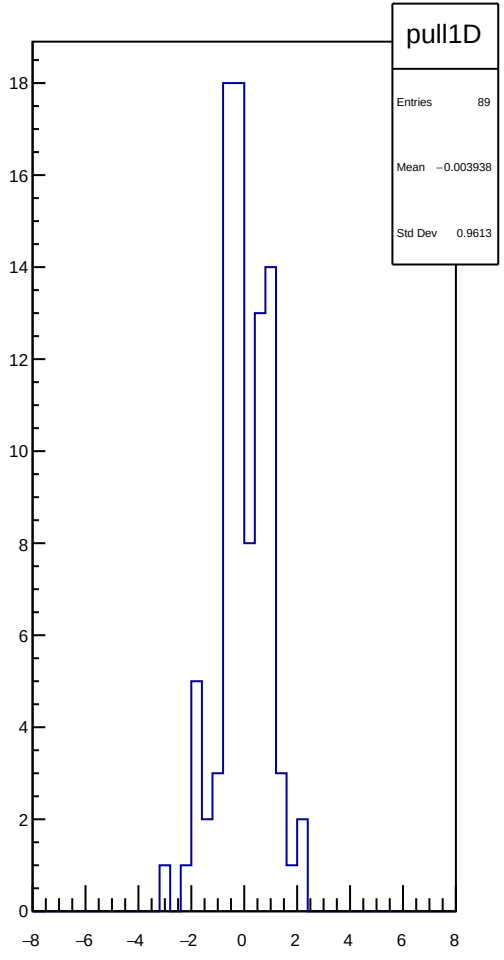

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 4307 / 88
p0 2058 ± 1.559
2300
2200
2100
2000
1900
1800

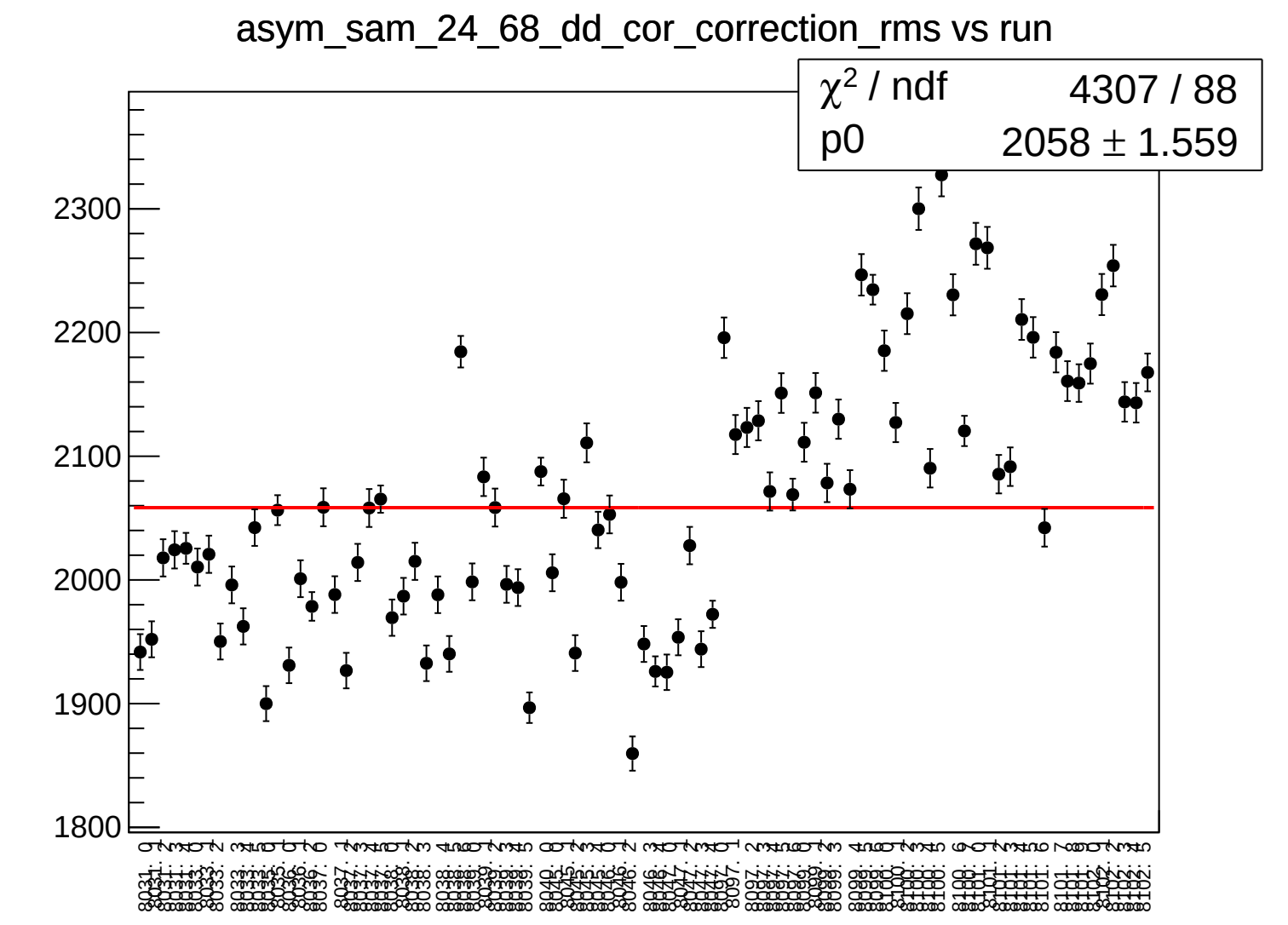

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 94.9 / 88
p0 16.6 ± 95.14
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean −545.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

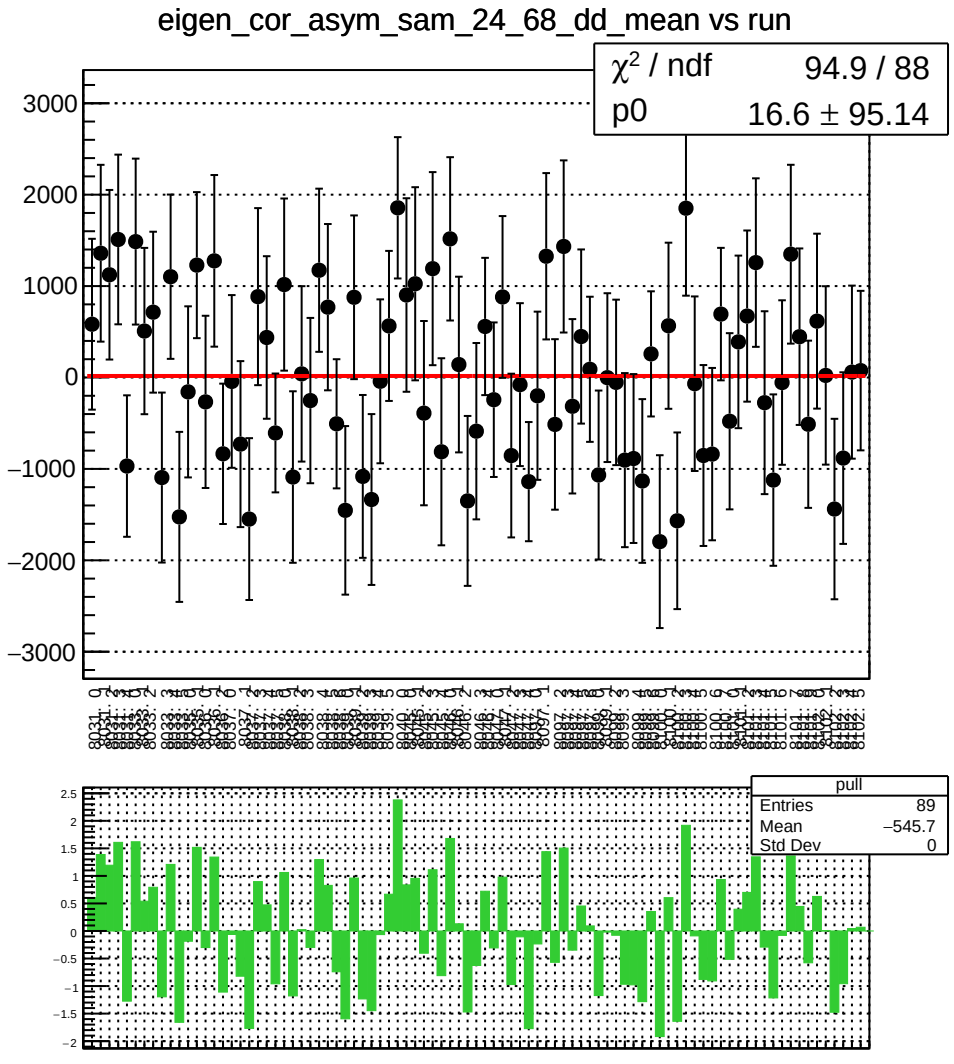

pull1D
Entries 89
Mean 0.00629
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

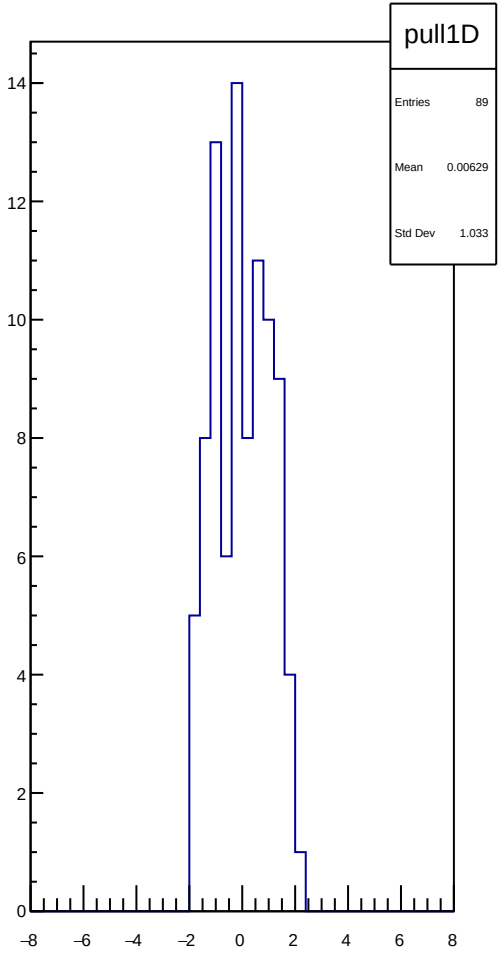

cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 3618 / 88
p0 88.84 ± 0.06728
100
95
90
85
80

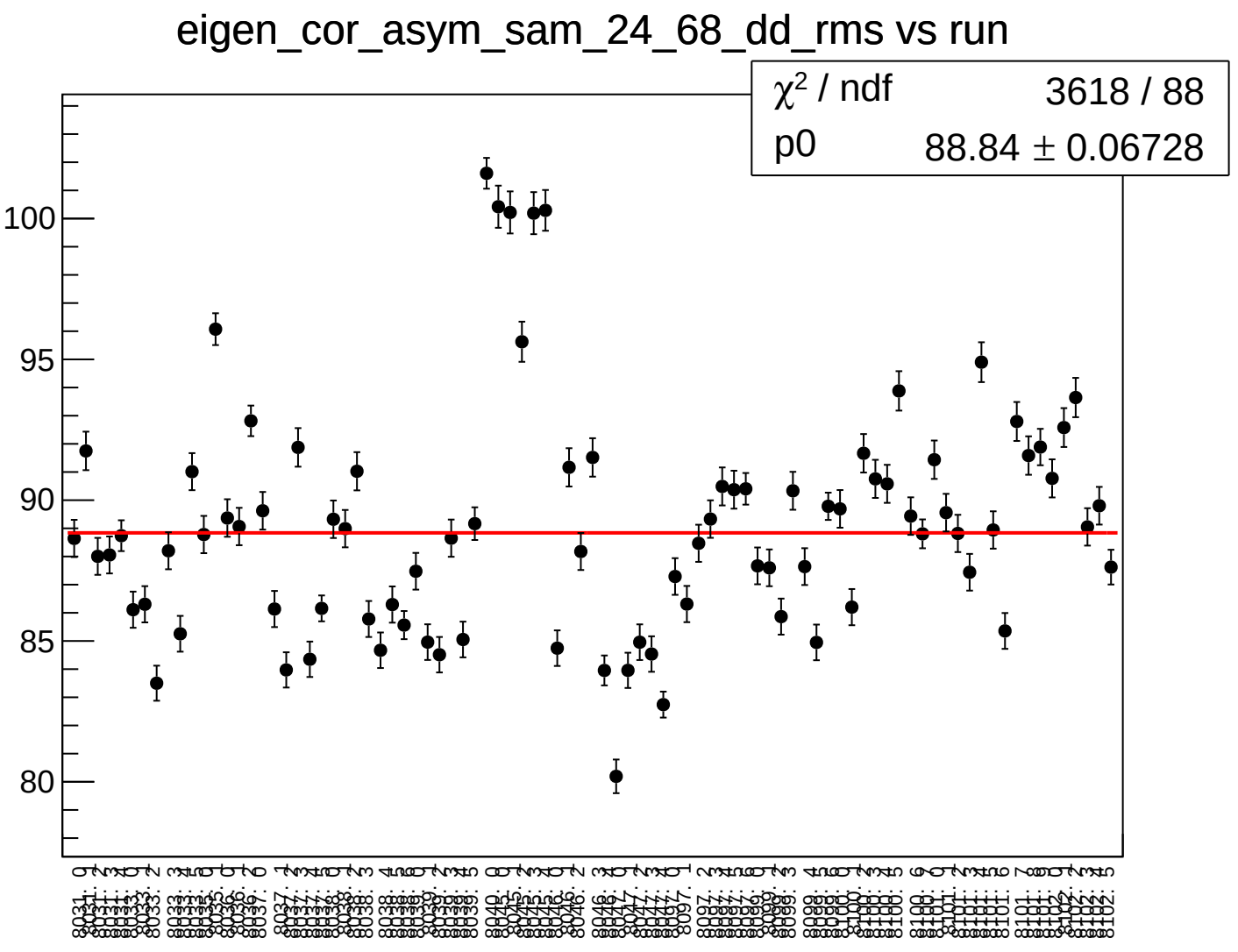

asym_sam_24_68_dd_cor_correction_mean vs run
χ² / ndf 82.24 / 88
p0 −2293 ± 2205
×10³
pull
Entries 89
Mean −352.7
Std Dev 0

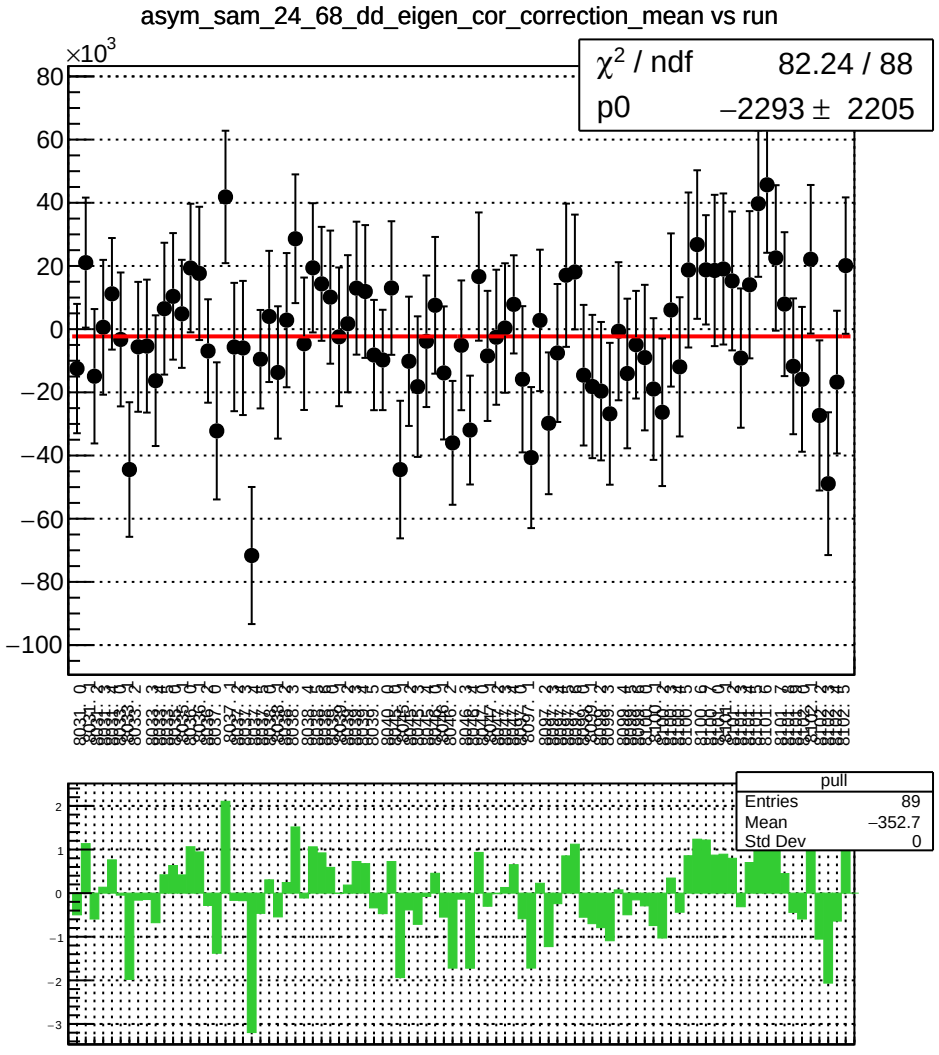

pull1D
Entries 89
Mean −0.003938
Std Dev 0.9613

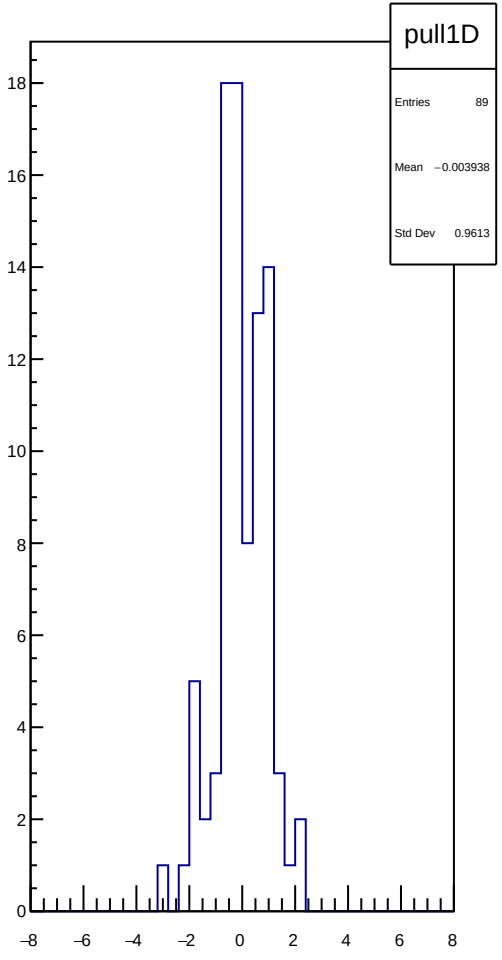

asym_sam_24_68_dd_cor_correction_rms vs run
χ² / ndf 4307 / 88
p0 2058 ± 1.559
2300
2200
2100
2000
1900
1800

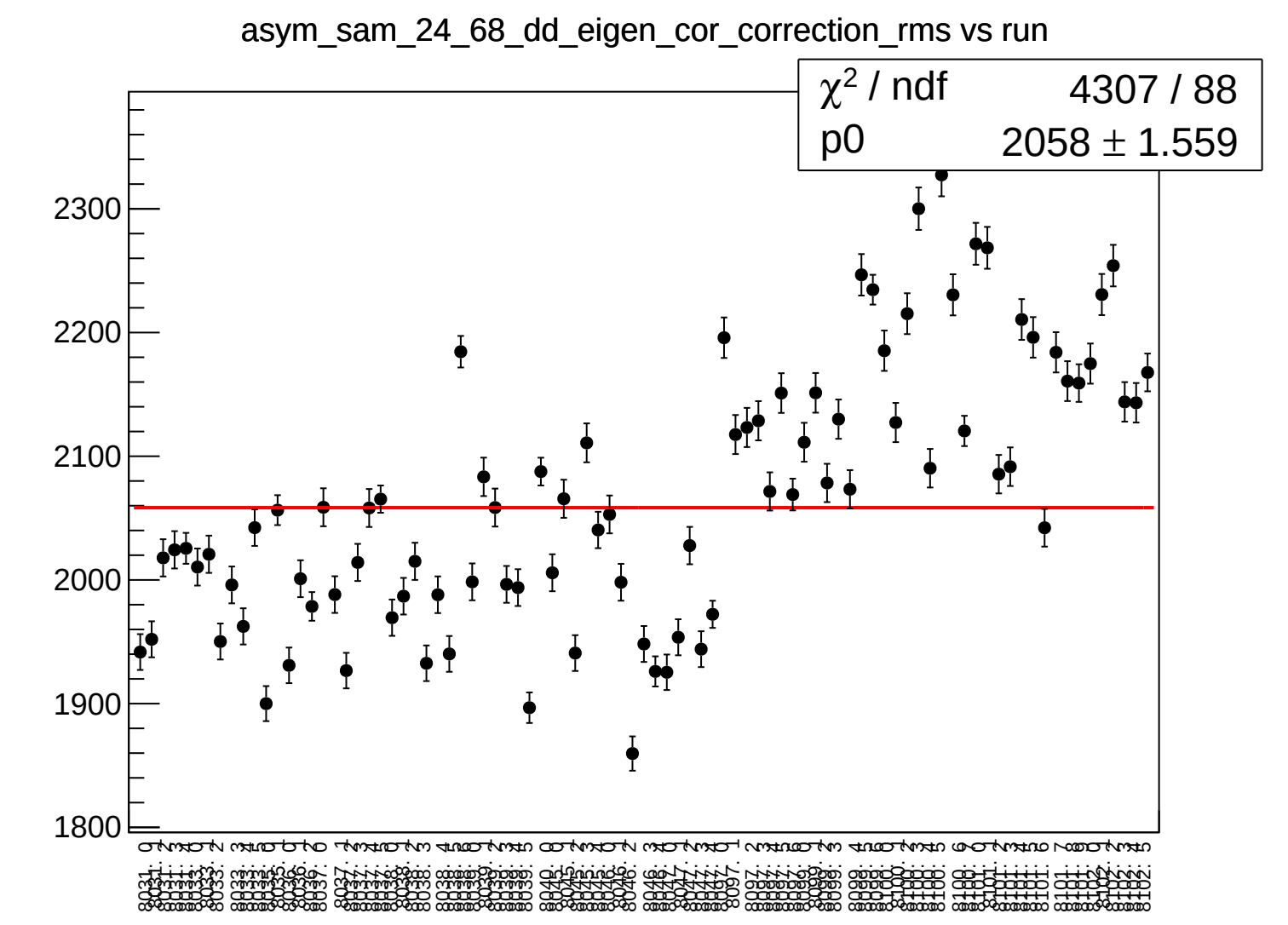

eigen_cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 94.9 / 88
p0 16.6 ± 95.14
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean −545.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

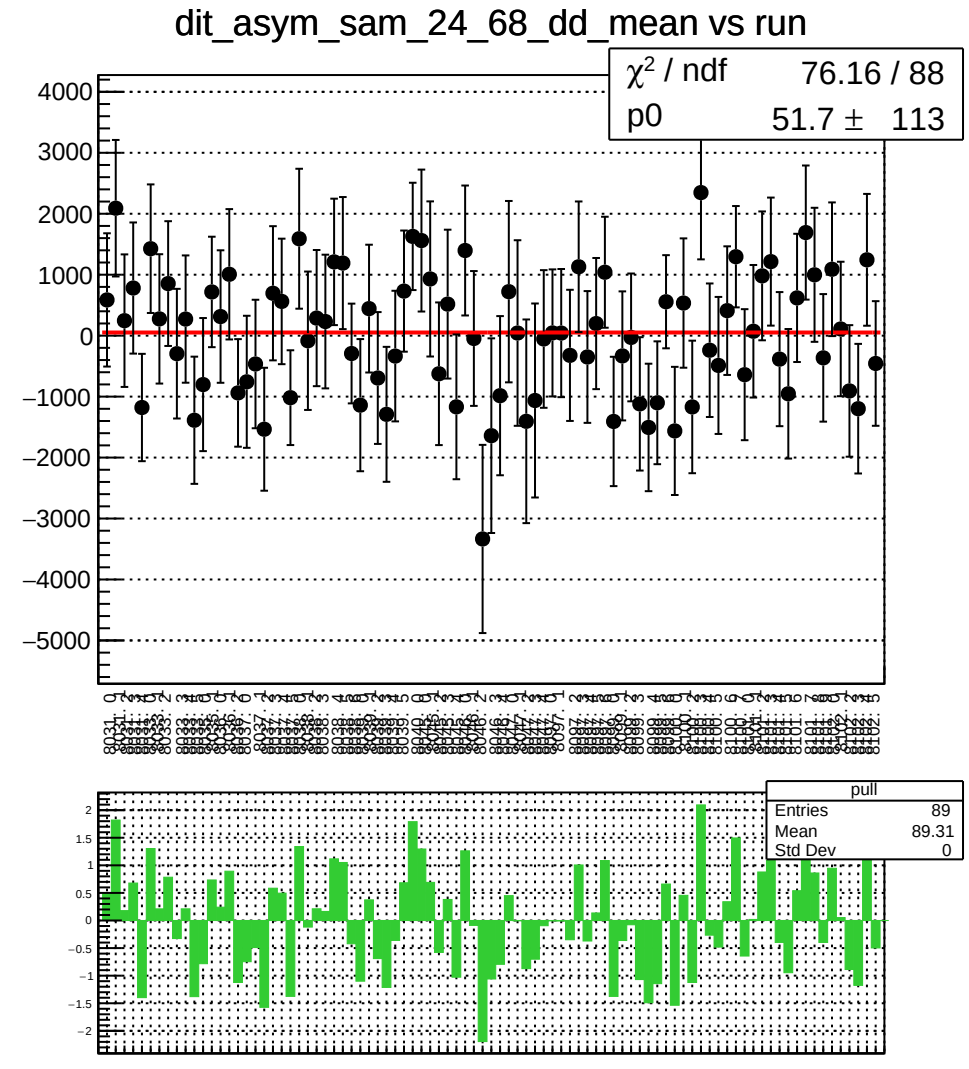

pull1D
Entries 89
Mean 0.00629
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

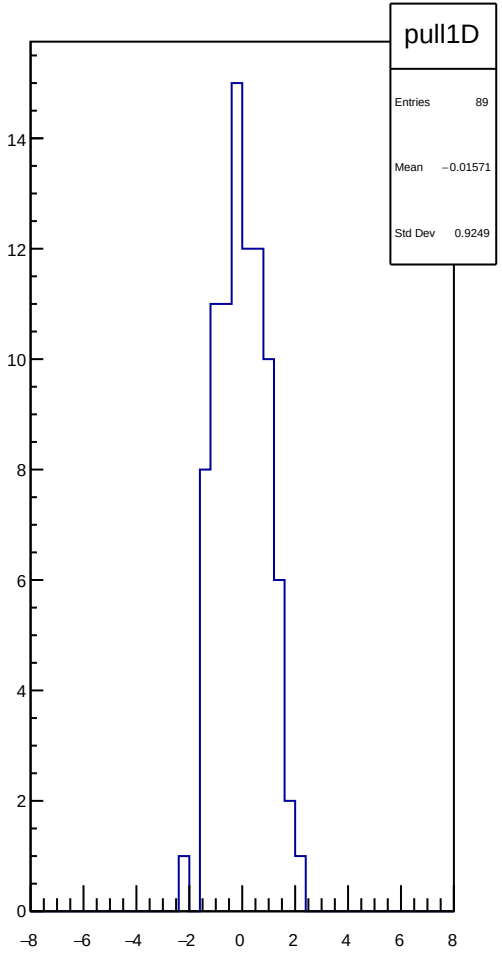

eigen_cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 3618 / 88
p0 88.84 ± 0.06728
100
95
90
85
80

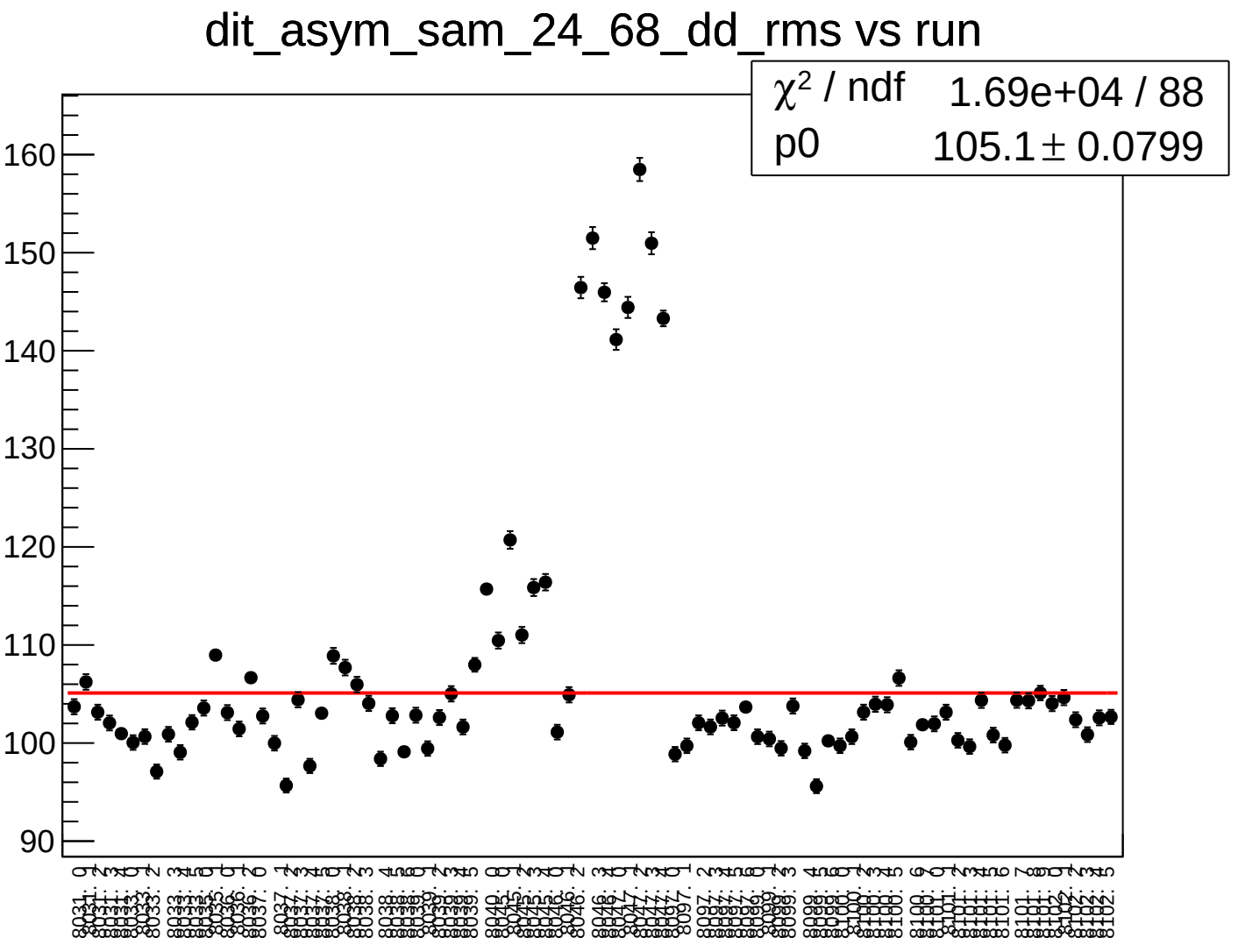

asym_sam_24_68_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 82.24 / 88
p0 −2293 ± 2205
pull
Entries 89
Mean −352.7
Std Dev 0

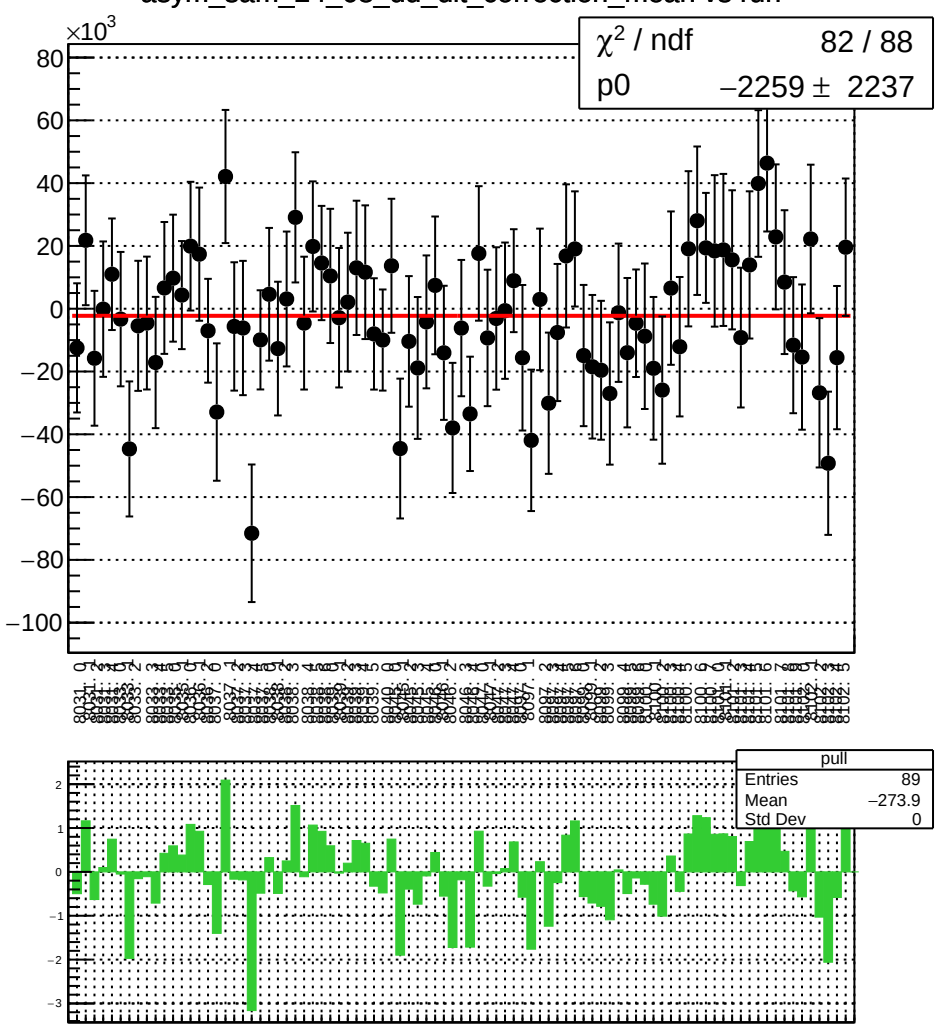

pull1D
Entries 89
Mean −0.003938
Std Dev 0.9613

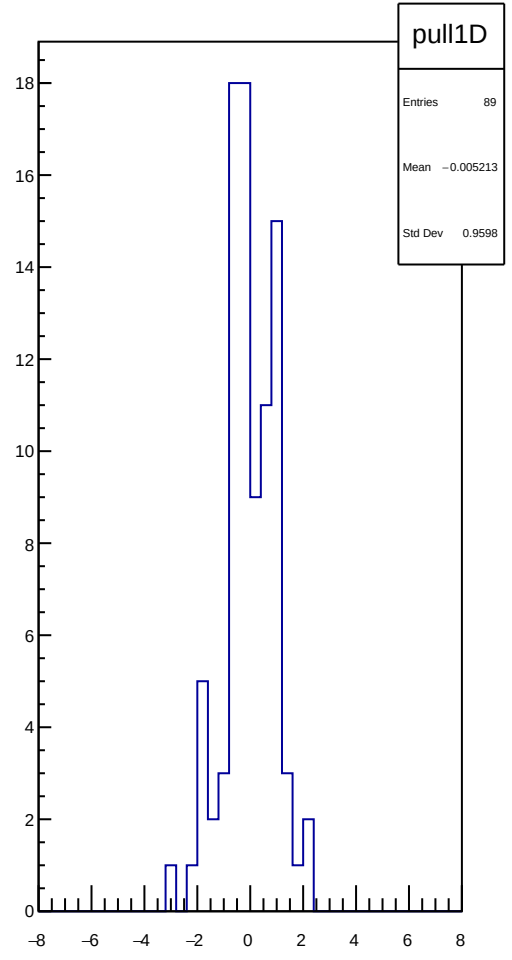

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 4307 / 88
p0 2058 ± 1.559
2300
2200
2100
2000
1900
1800

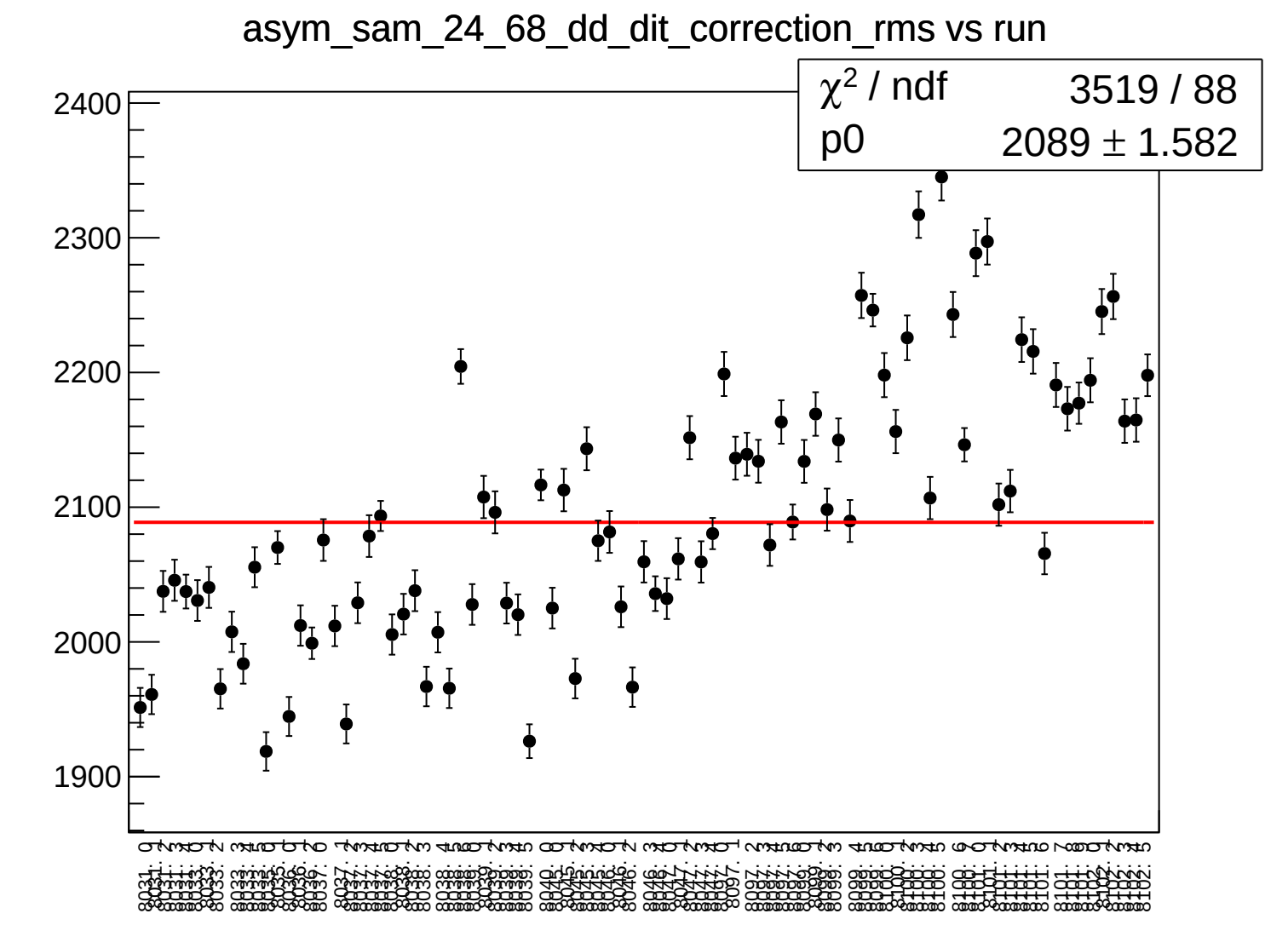

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 76.16 / 88
p0 51.7 ± 113
pull
Entries 89
Mean 89.31
Std Dev 0

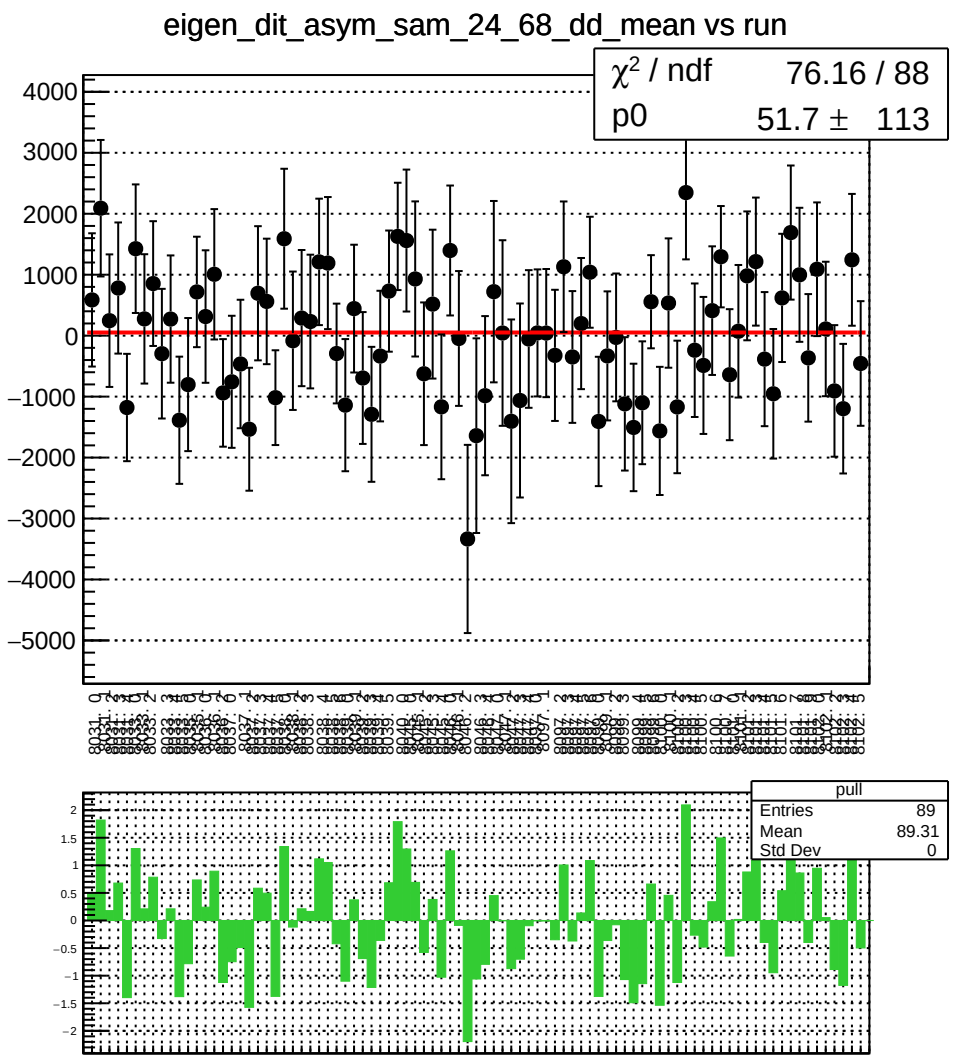

pull1D
Entries 89
Mean −0.01571
Std Dev 0.9249

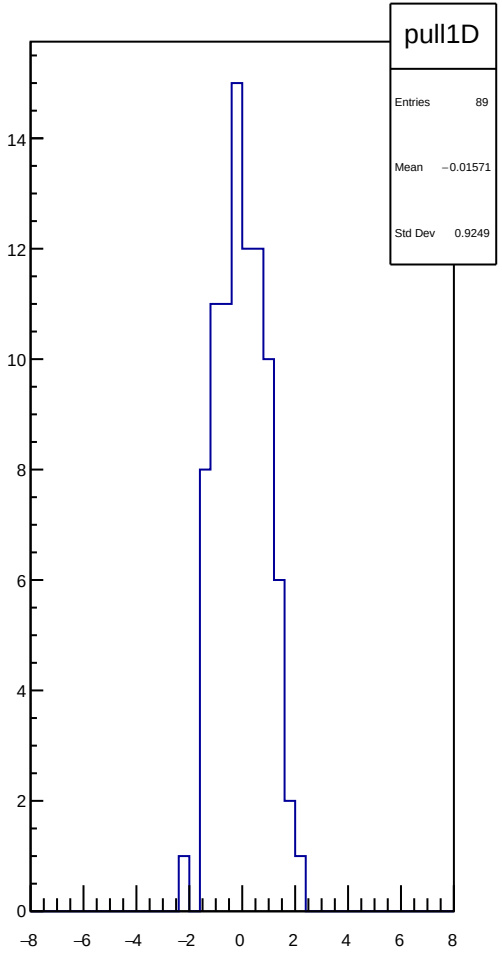

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.69e+04 / 88
p0 105.1 ± 0.0799
160
150
140
130
120
110
100
90

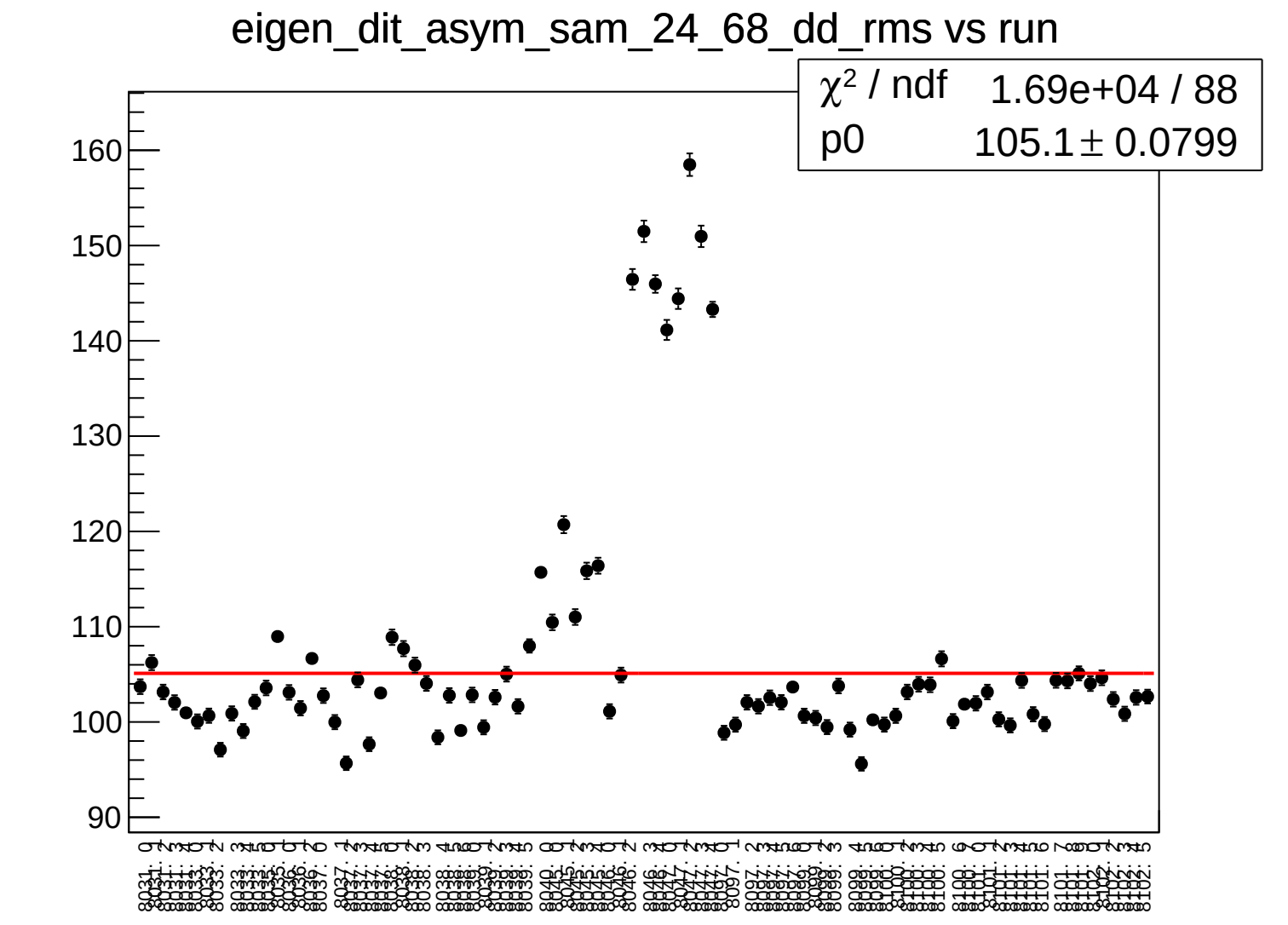

asym_sam_24_68_dd_dit_correction_mean vs run
×10^3
χ² / ndf 82 / 88
p0 −2259 ± 2237
pull
Entries 89
Mean −273.9
Std Dev 0

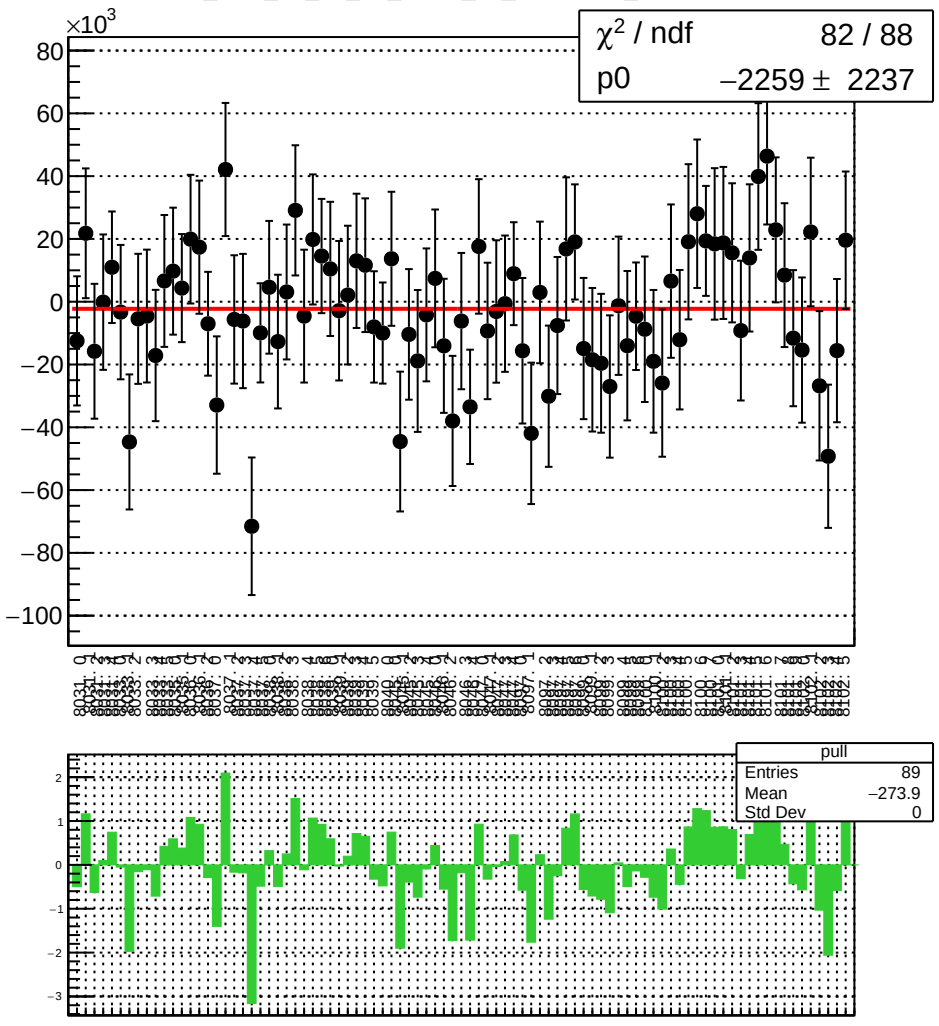

pull1D
Entries 89
Mean −0.005213
Std Dev 0.9598

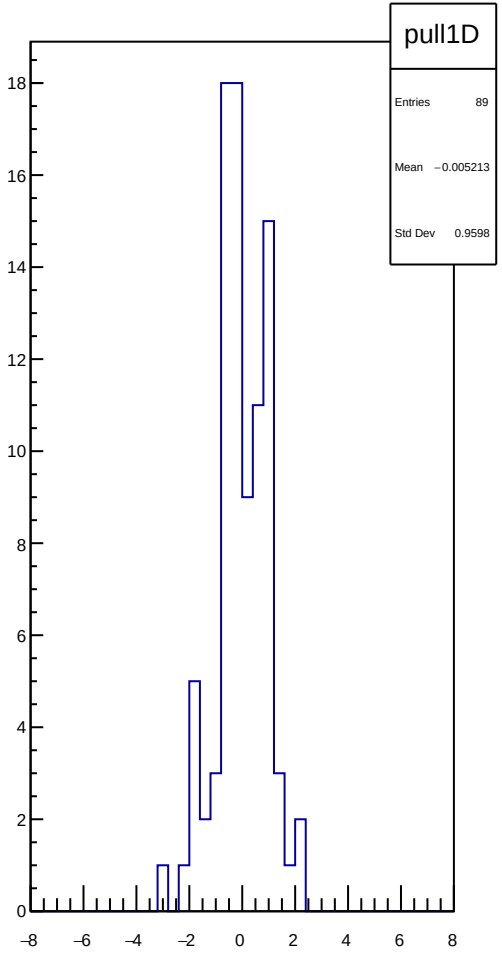

asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 3519 / 88
p0 2089 ± 1.582
2400
2300
2200
2100
2000
1900

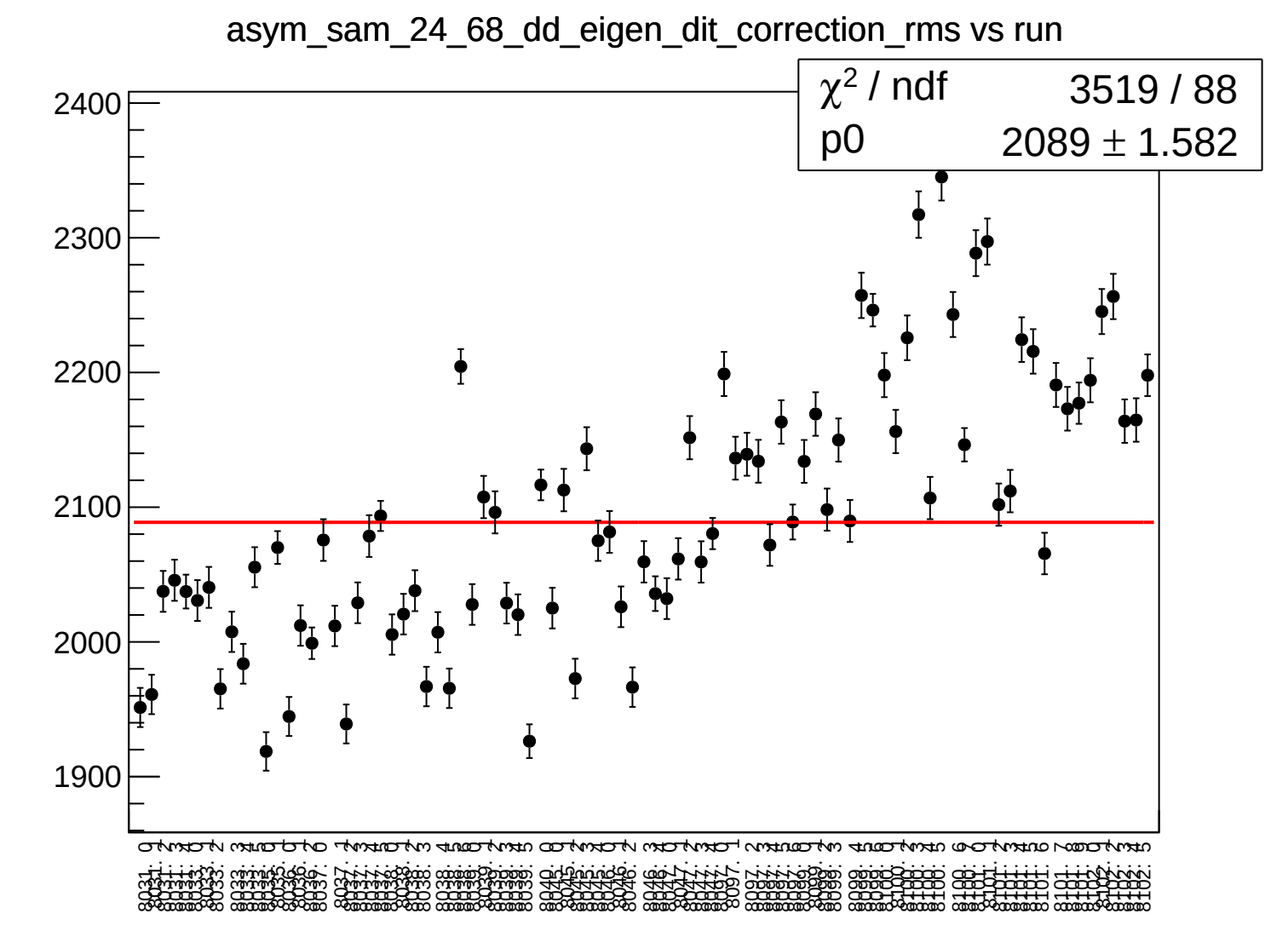

eigen_dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 76.16 / 88
p0 51.7 ± 113
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
pull
Entries 89
Mean 89.31
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

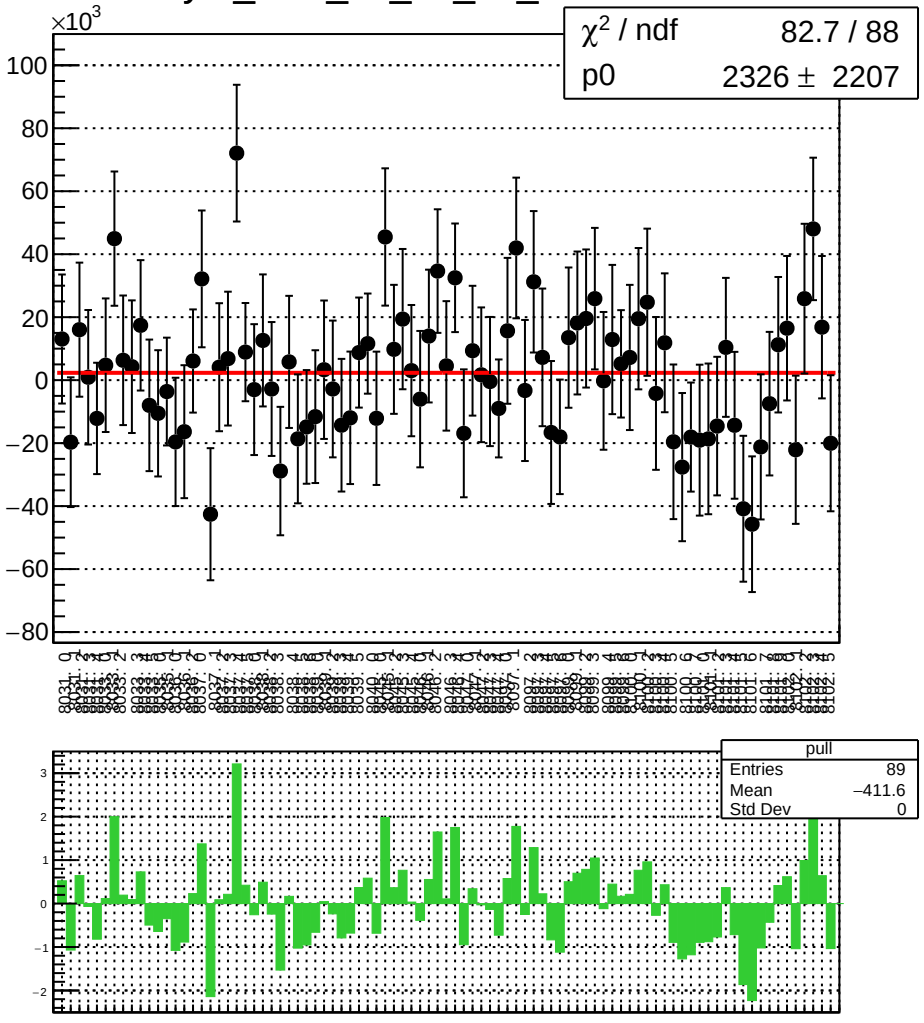

pull1D
Entries 89
Mean −0.01571
Std Dev 0.9249
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

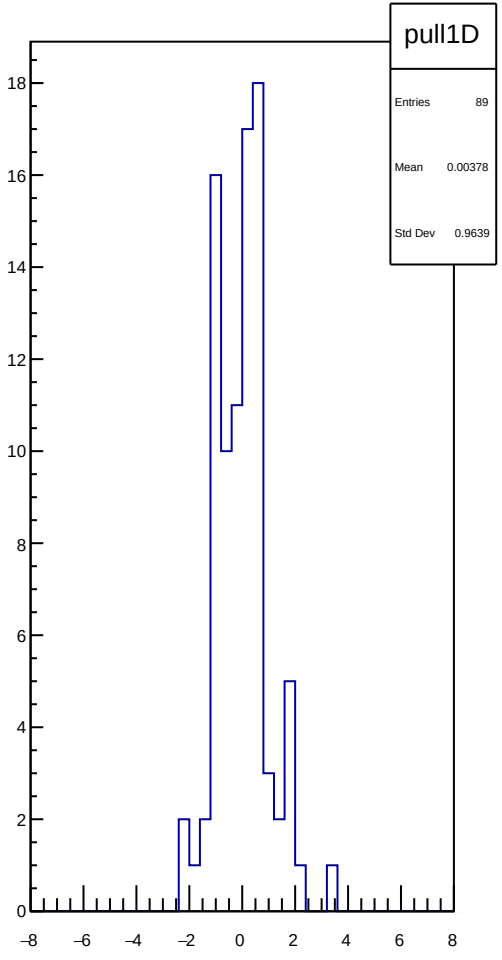

eigen_dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.69e+04 / 88
p0 105.1 ± 0.0799
160
150
140
130
120
110
100
90

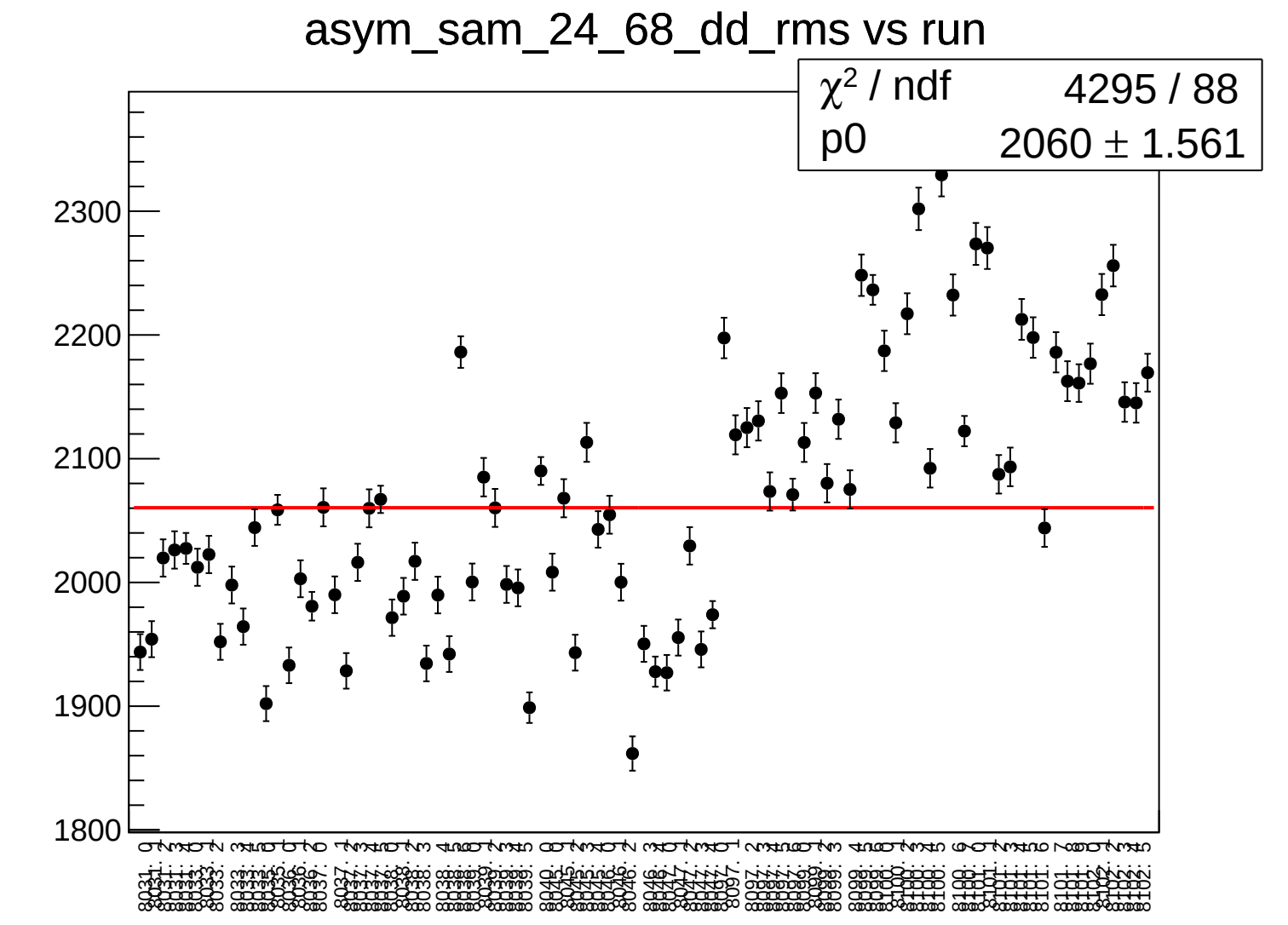

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 82 / 88
p0 −2259 ± 2237
pull
Entries 89
Mean −273.9
Std Dev 0

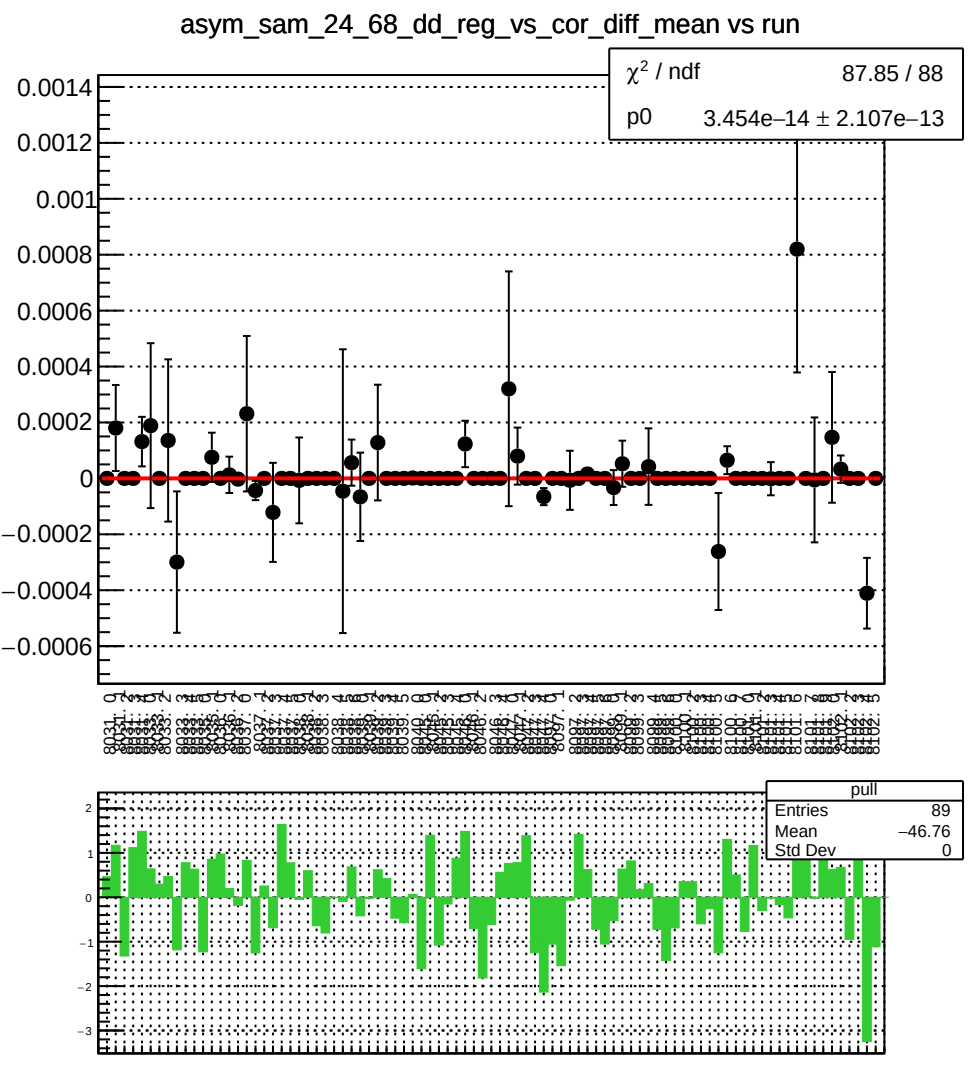

pull1D
Entries 89
Mean −0.005213
Std Dev 0.9598

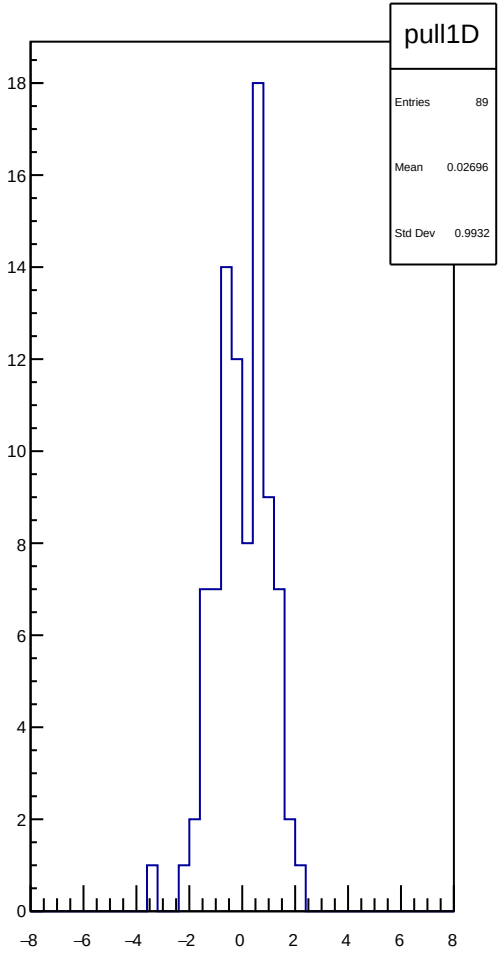

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 3519 / 88
p0 2089 ± 1.582
2400
2300
2200
2100
2000
1900

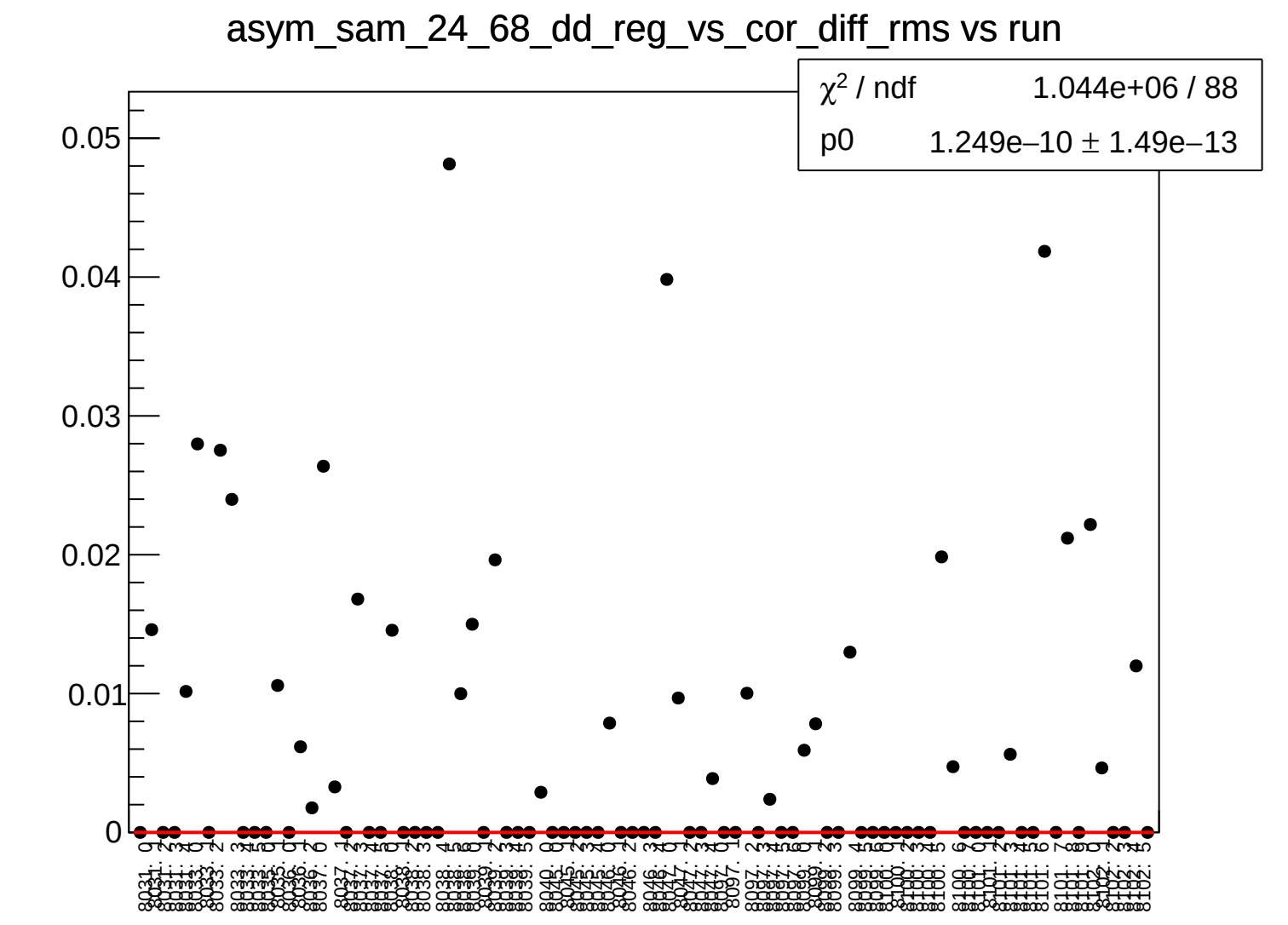

asym_sam_24_68_dd_mean vs run
×10^3
χ² / ndf 82.7 / 88
p0 2326 ± 2207
pull
Entries 89
Mean −411.6
Std Dev 0

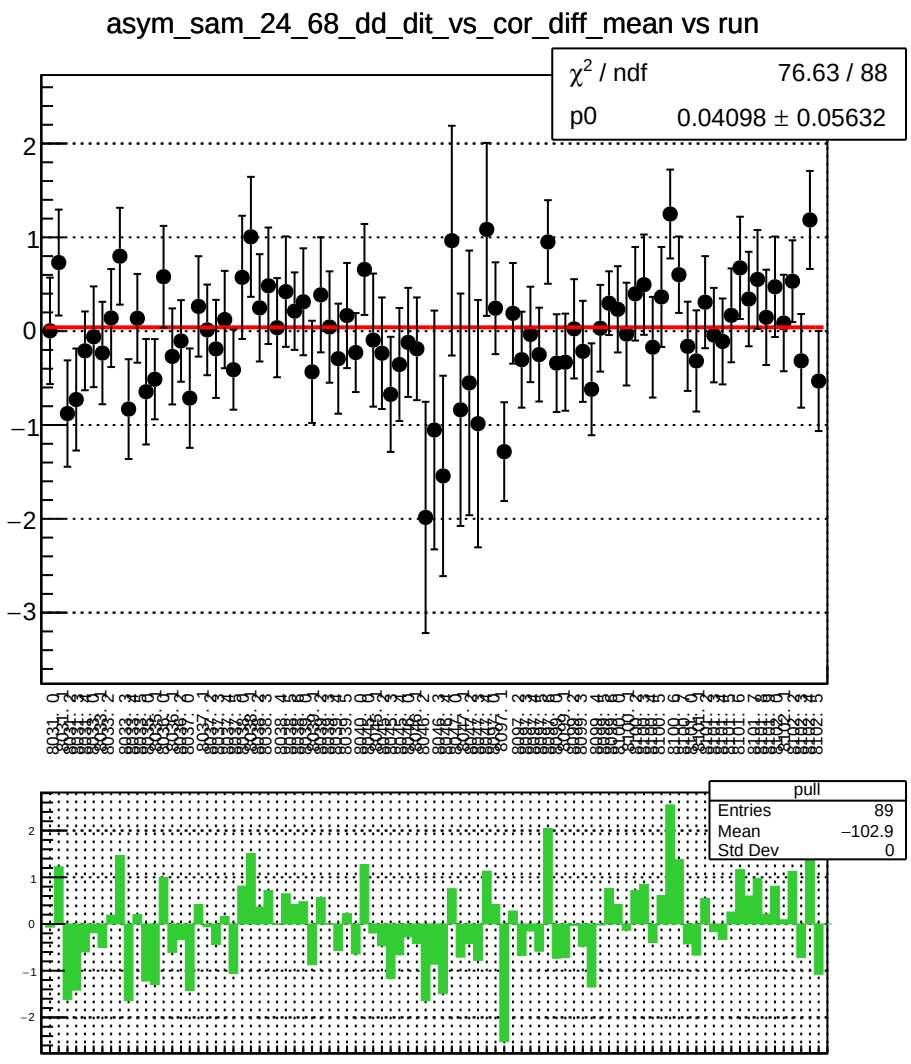

pull1D
Entries 89
Mean 0.00378
Std Dev 0.9639

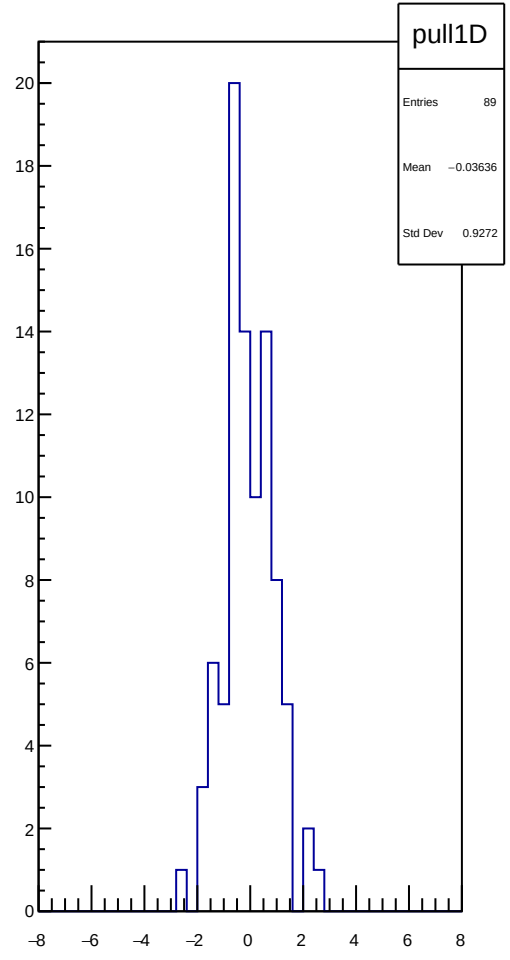

asym_sam_24_68_dd_rms vs run
χ² / ndf 4295 / 88
p0 2060 ± 1.561
2300
2200
2100
2000
1900
1800

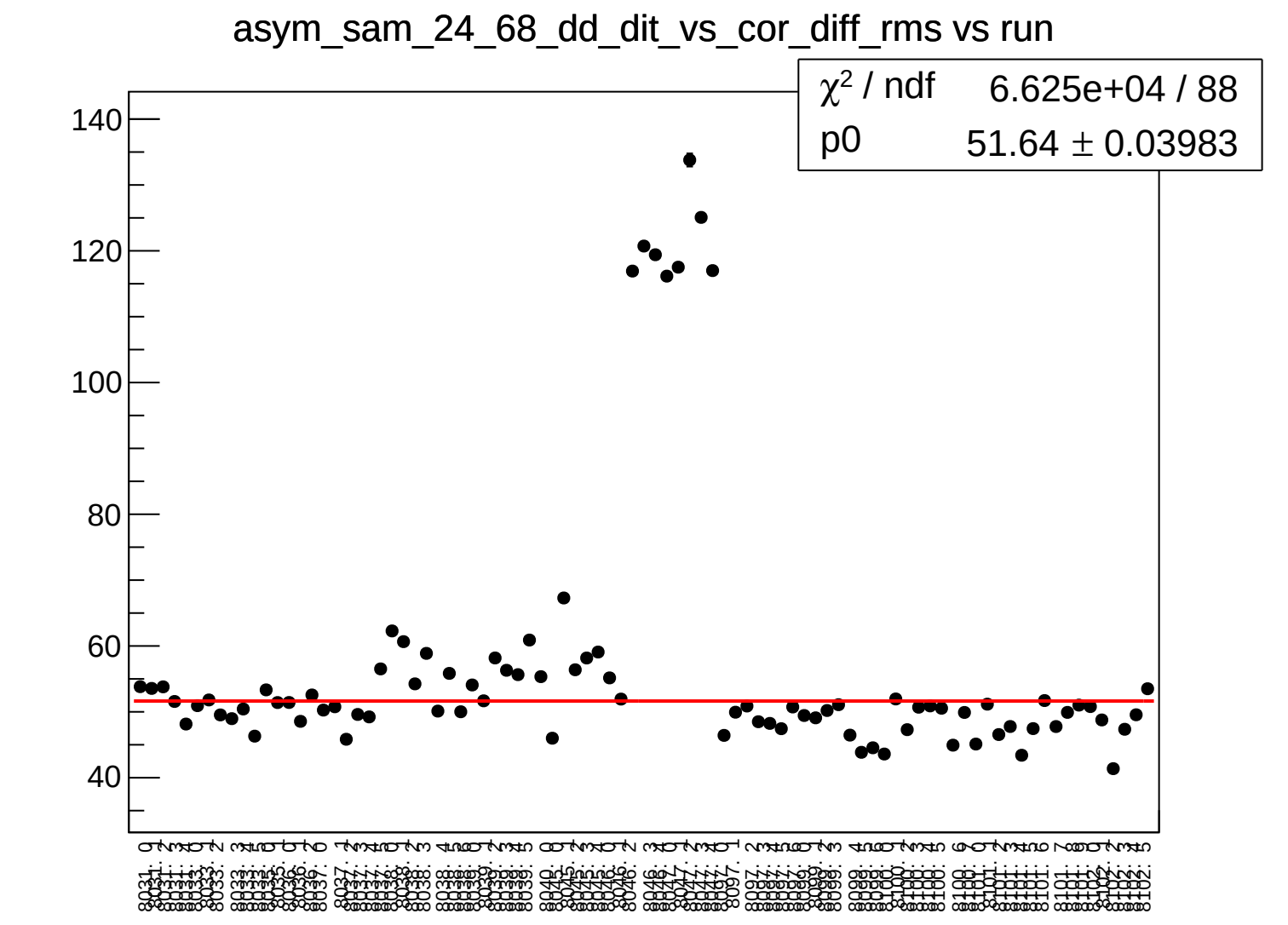

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 87.85 / 88
p0 3.454e−14 ± 2.107e−13
pull
Entries 89
Mean −46.76
Std Dev 0

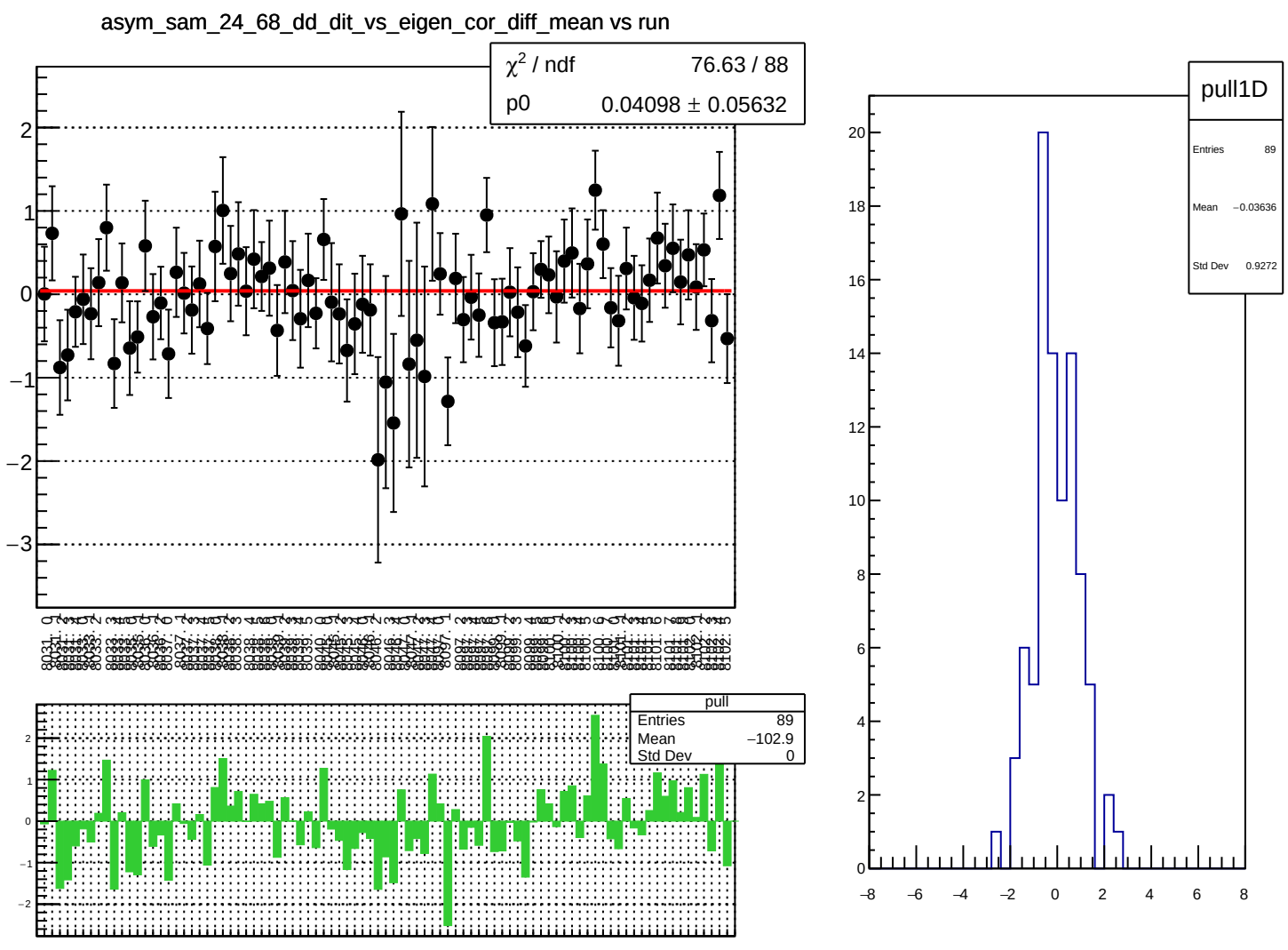

pull1D
Entries 89
Mean 0.02696
Std Dev 0.9932

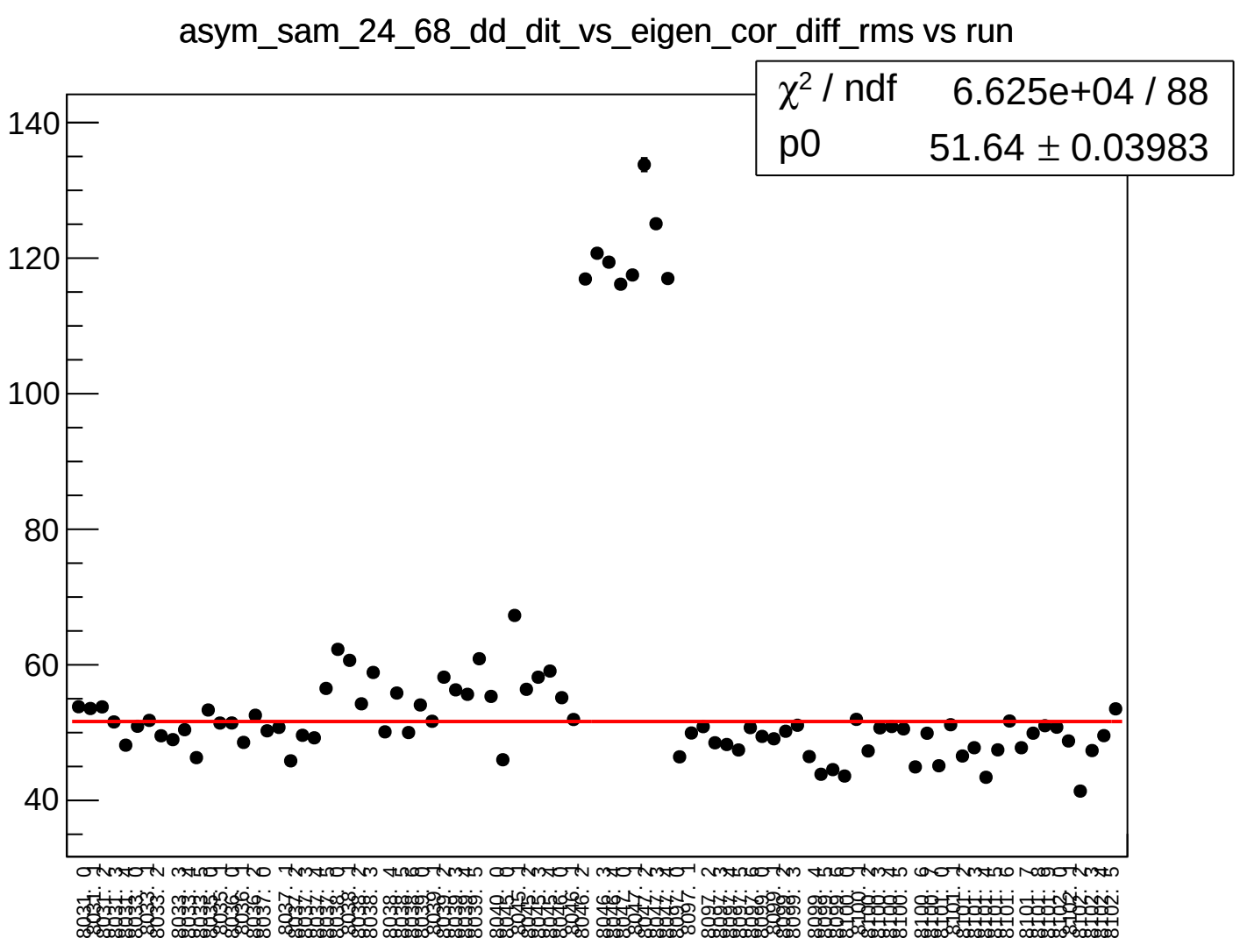

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.044e+06 / 88
p0 1.249e−10 ± 1.49e−13
0.05
0.04
0.03
0.02
0.01
0

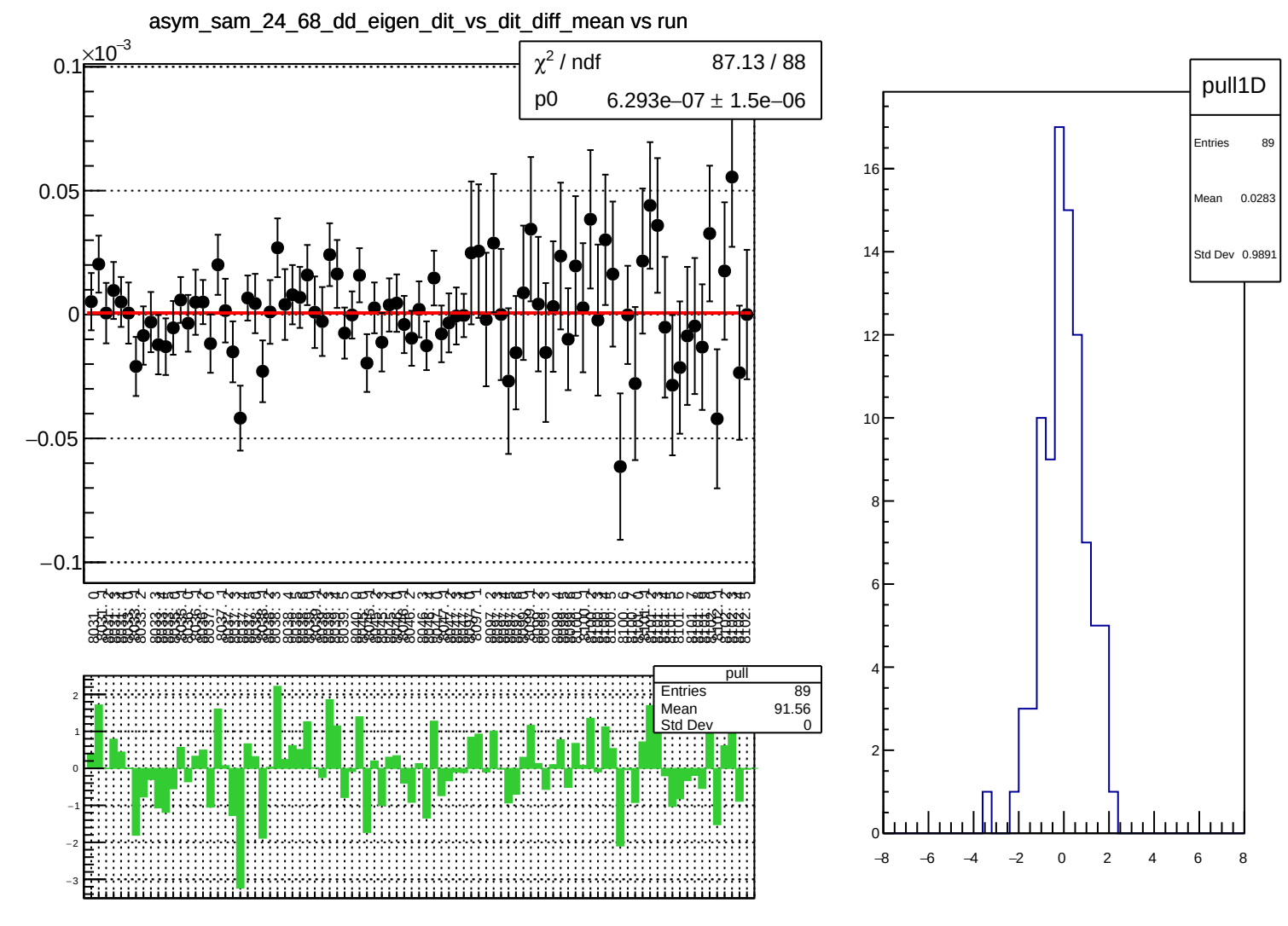

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 76.63 / 88
p0 0.04098 ± 0.05632
pull
Entries 89
Mean −102.9
Std Dev 0

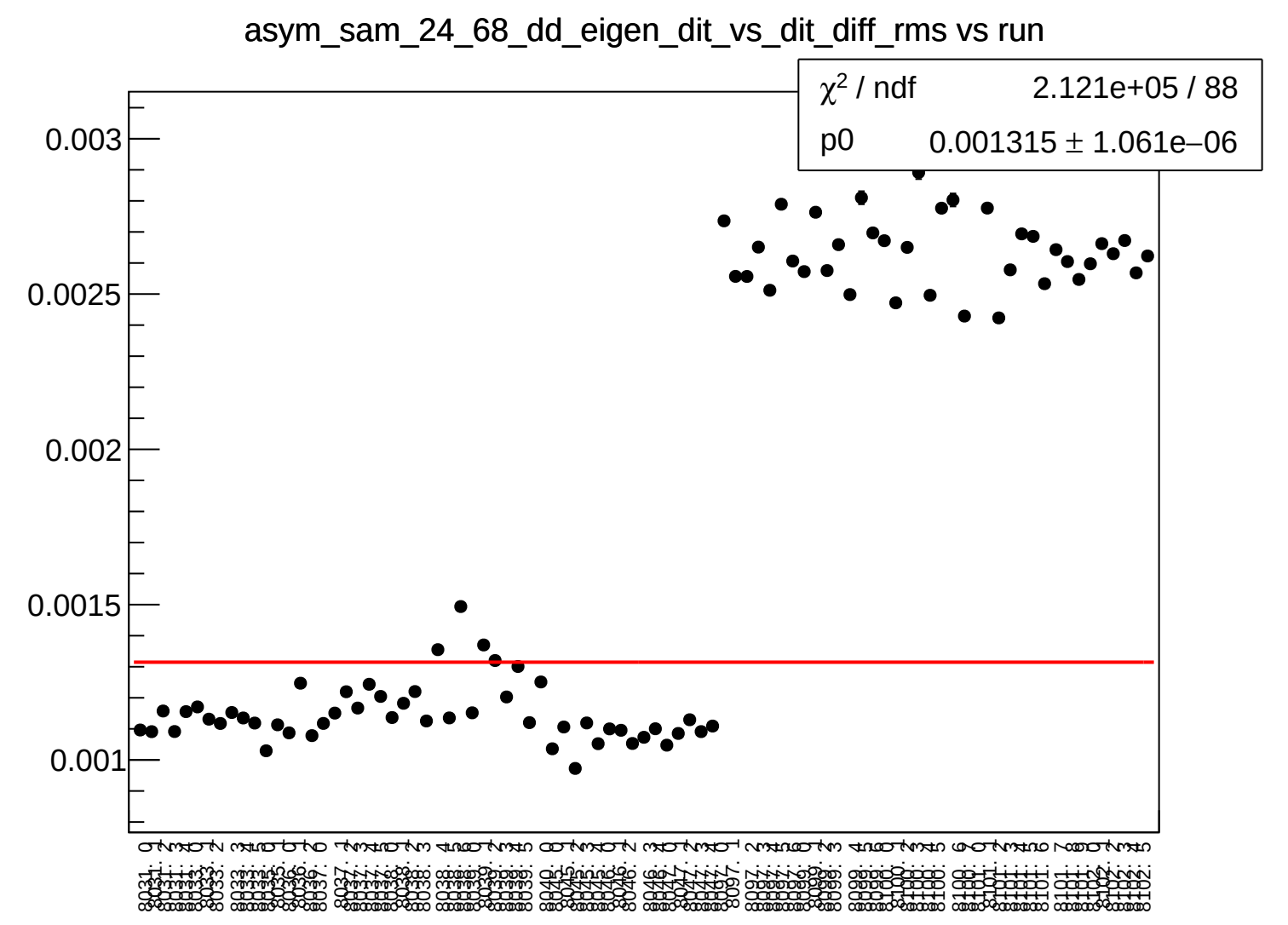

pull1D
Entries 89
Mean −0.03636
Std Dev 0.9272

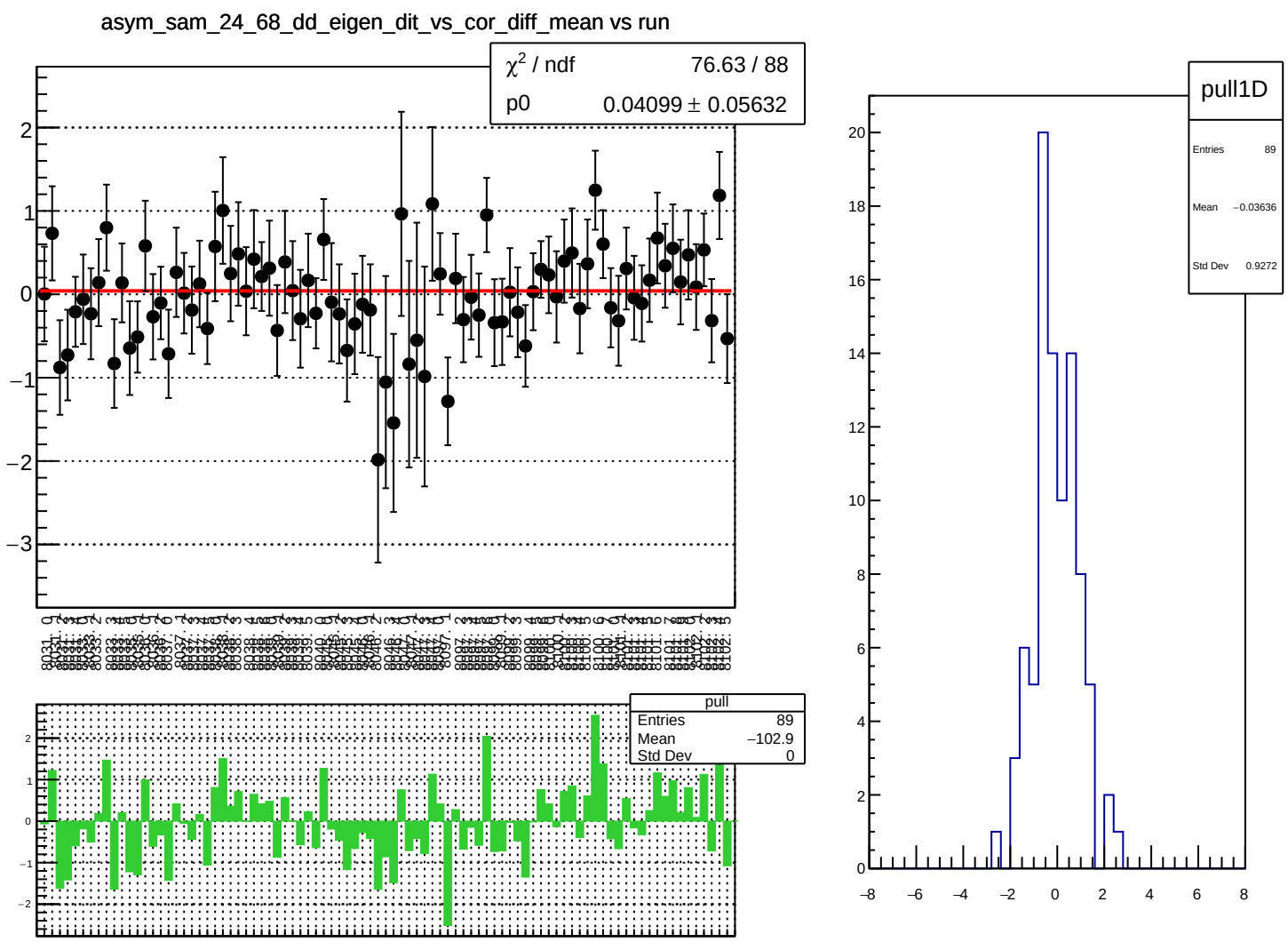

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.625e+04 / 88
p0 51.64 ± 0.03983
140
120
100
80
60
40

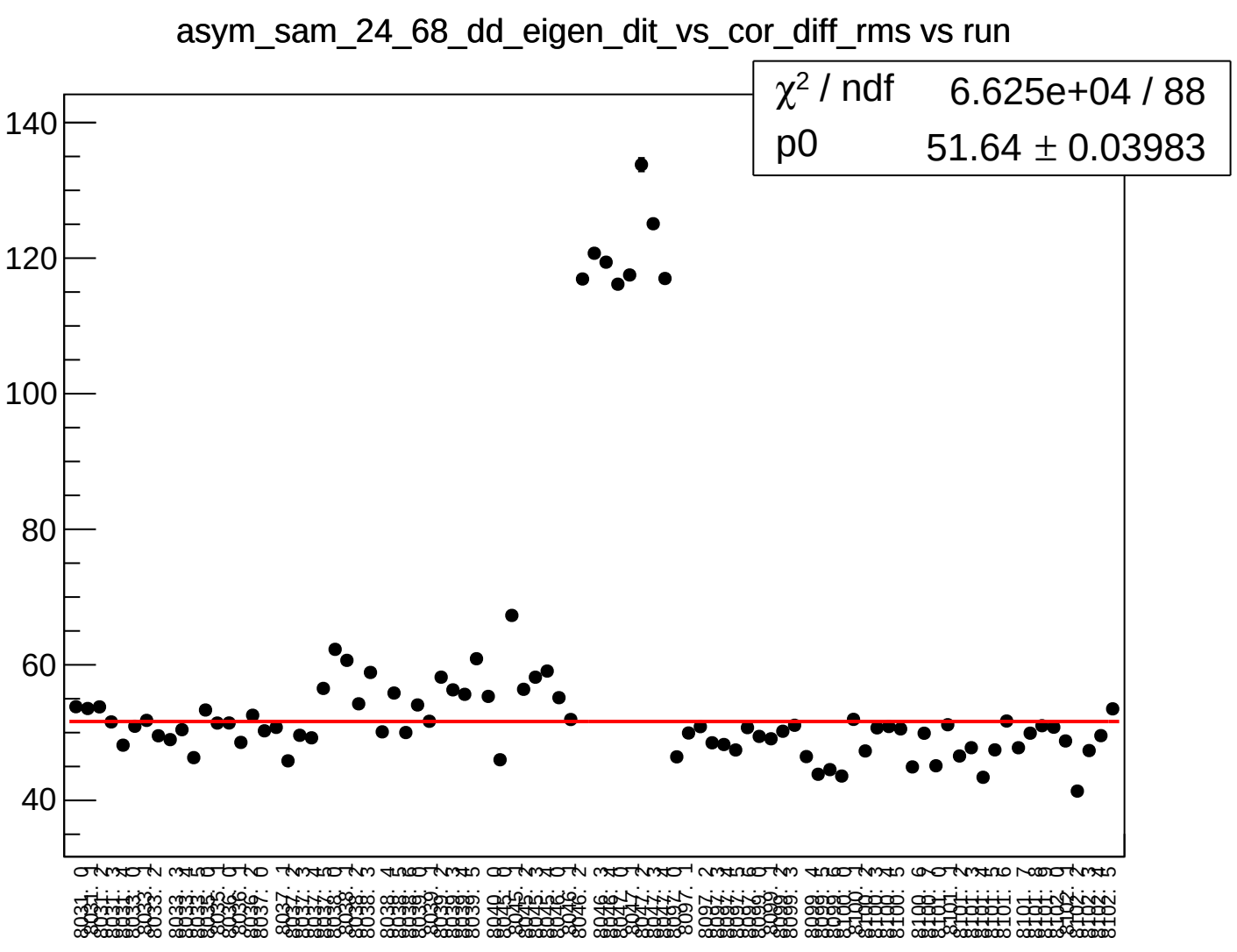

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.63 / 88
p0 0.04098 ± 0.05632
pull
Entries 89
Mean −102.9
Std Dev 0
pull1D
Entries 89
Mean −0.03636
Std Dev 0.9272

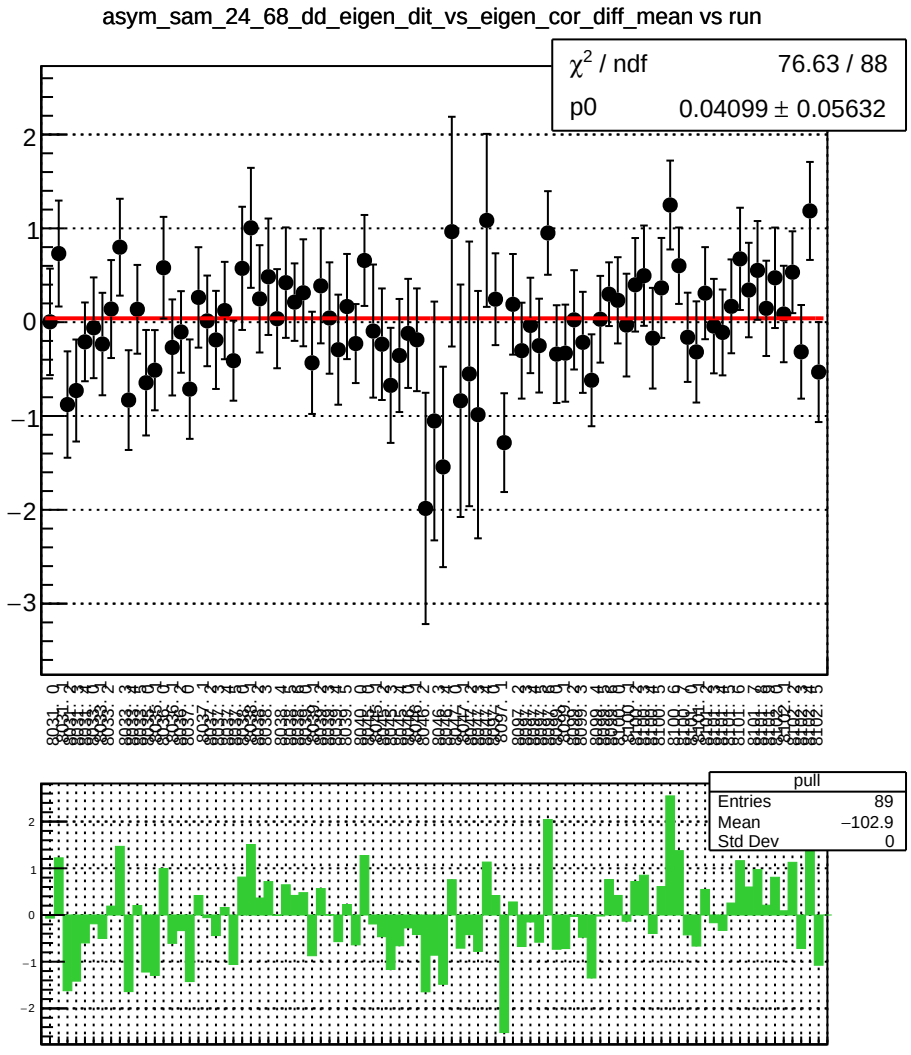

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.625e+04 / 88
p0 51.64 ± 0.03983
140
120
100
80
60
40

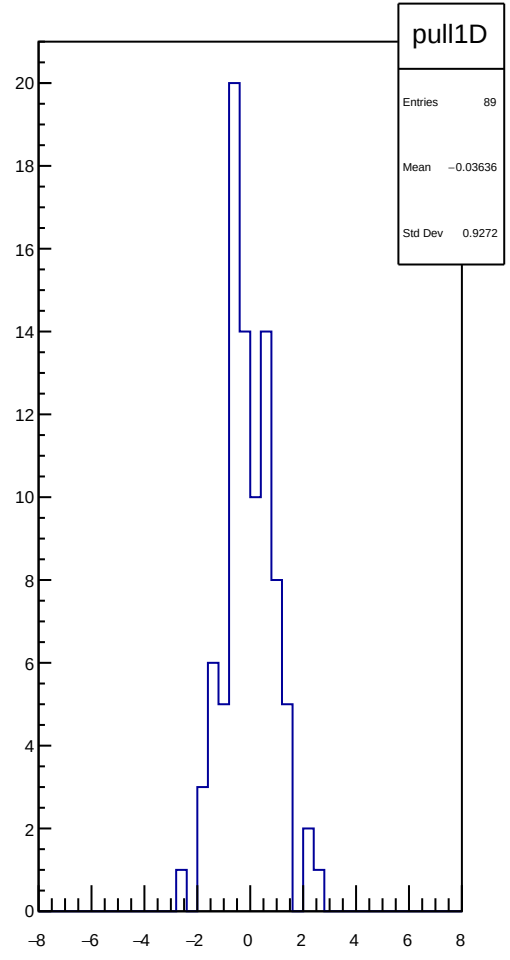

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.13 / 88
p0 6.293e−07 ± 1.5e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 89
Mean 91.56
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.0283
Std Dev 0.9891
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

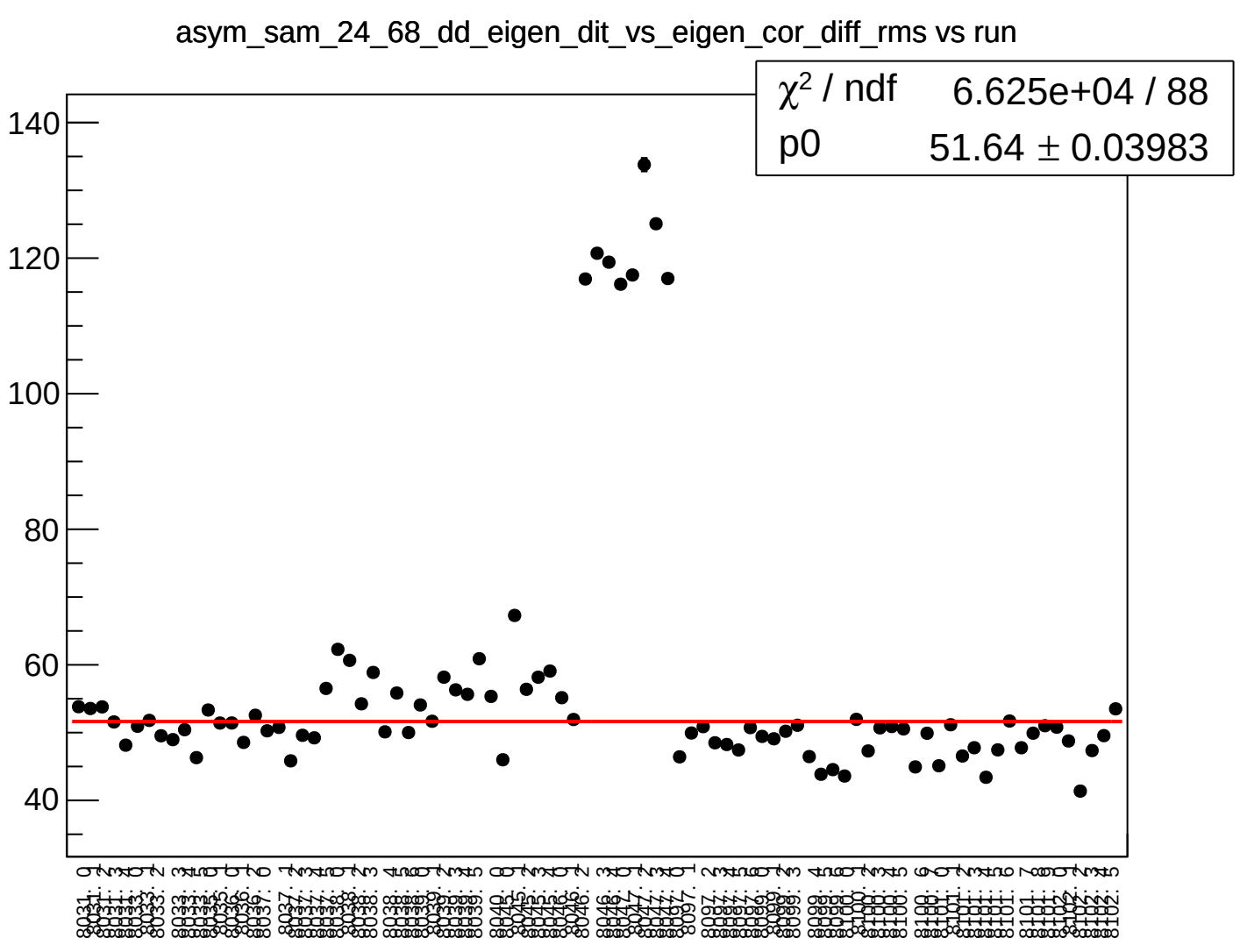

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.121e+05 / 88
p0 0.001315 ± 1.061e−06
0.003
0.0025
0.002
0.0015
0.001

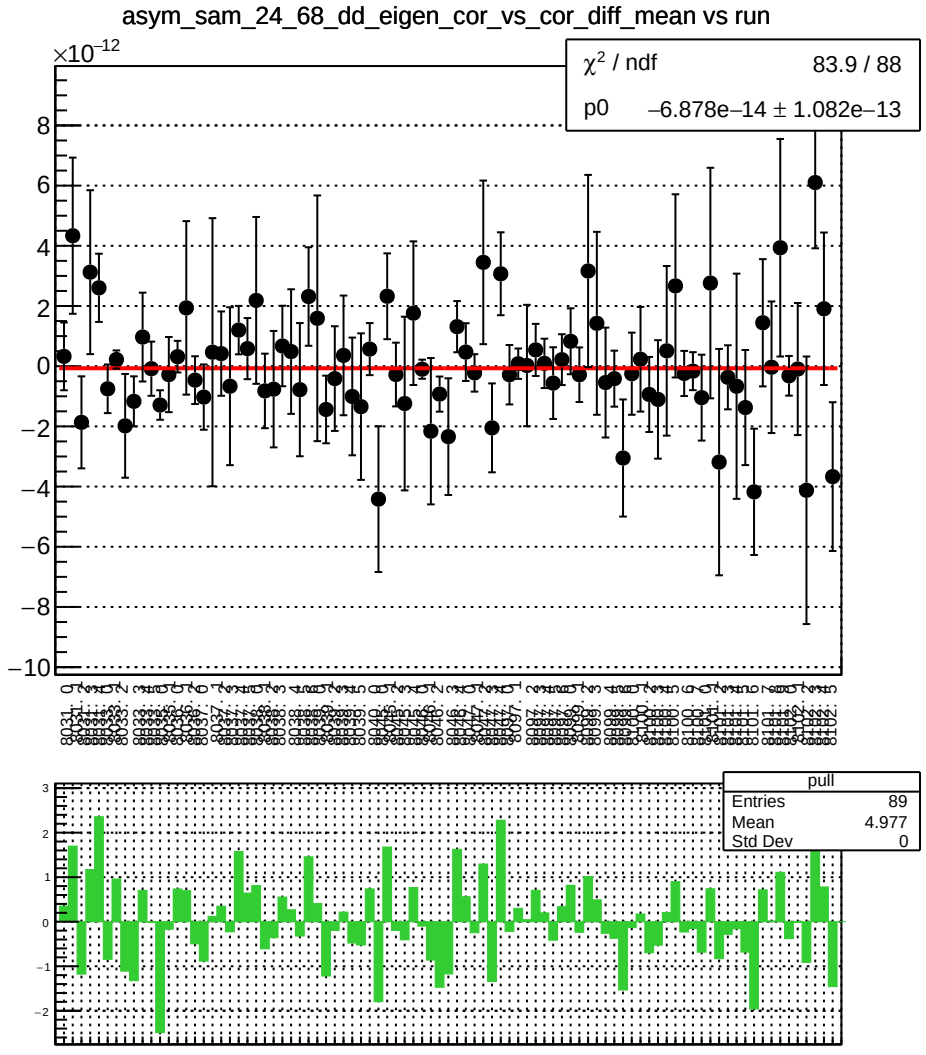

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.63 / 88
p0 0.04099 ± 0.05632
pull
Entries 89
Mean −102.9
Std Dev 0
pull1D
Entries 89
Mean −0.03636
Std Dev 0.9272

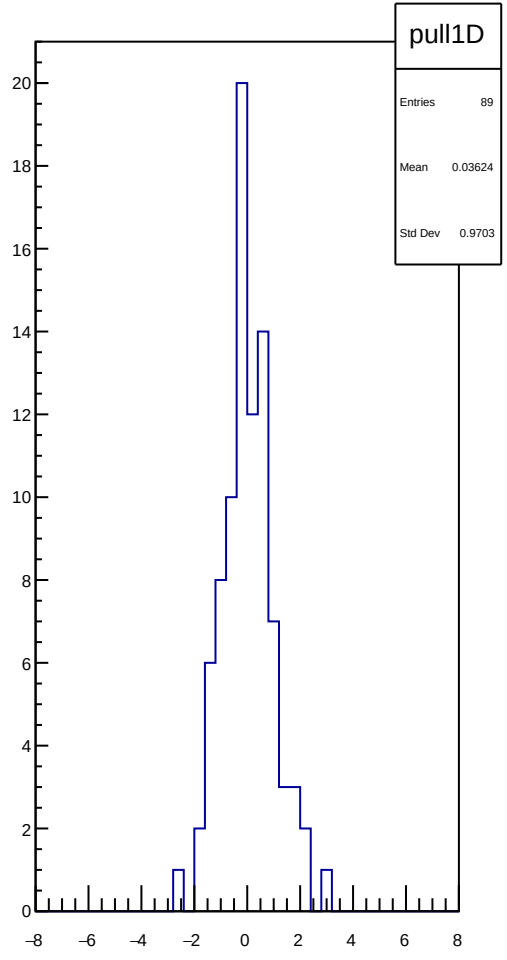

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.625e+04 / 88
p0 51.64 ± 0.03983
140
120
100
80
60
40

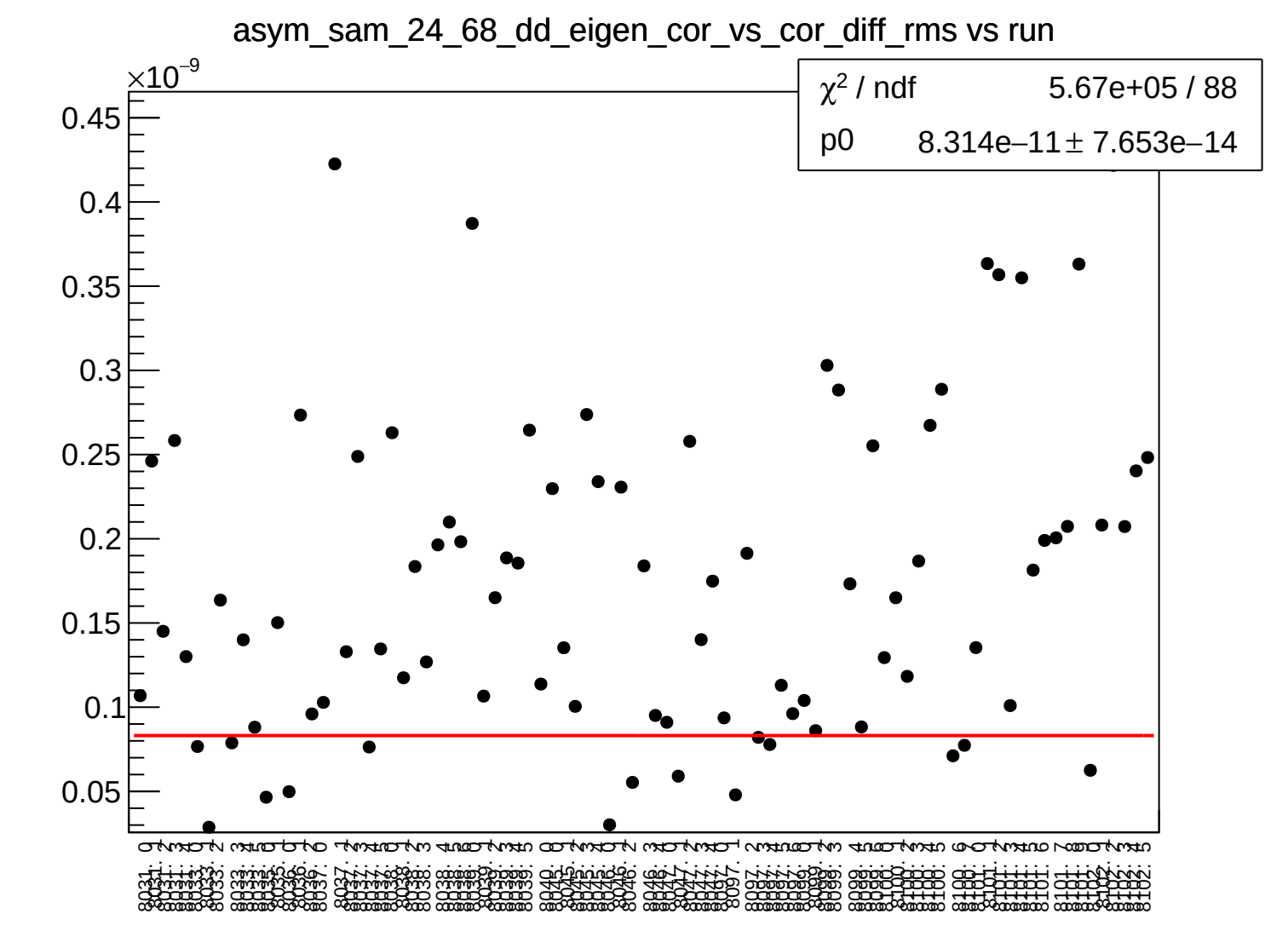

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.63 / 88
p0 0.04099 ± 0.05632
pull
Entries 89
Mean −102.9
Std Dev 0

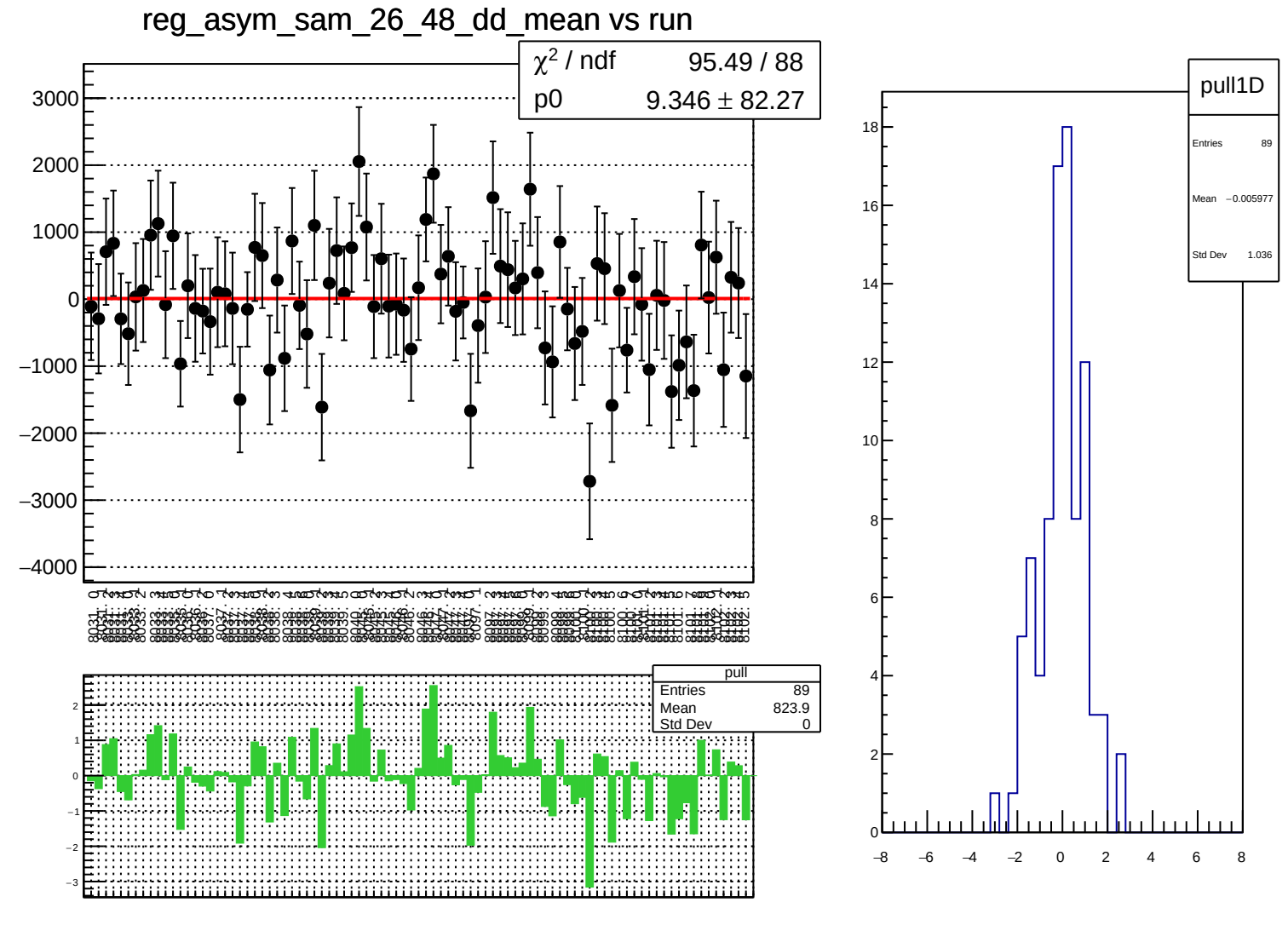

pull1D
Entries 89
Mean −0.03636
Std Dev 0.9272

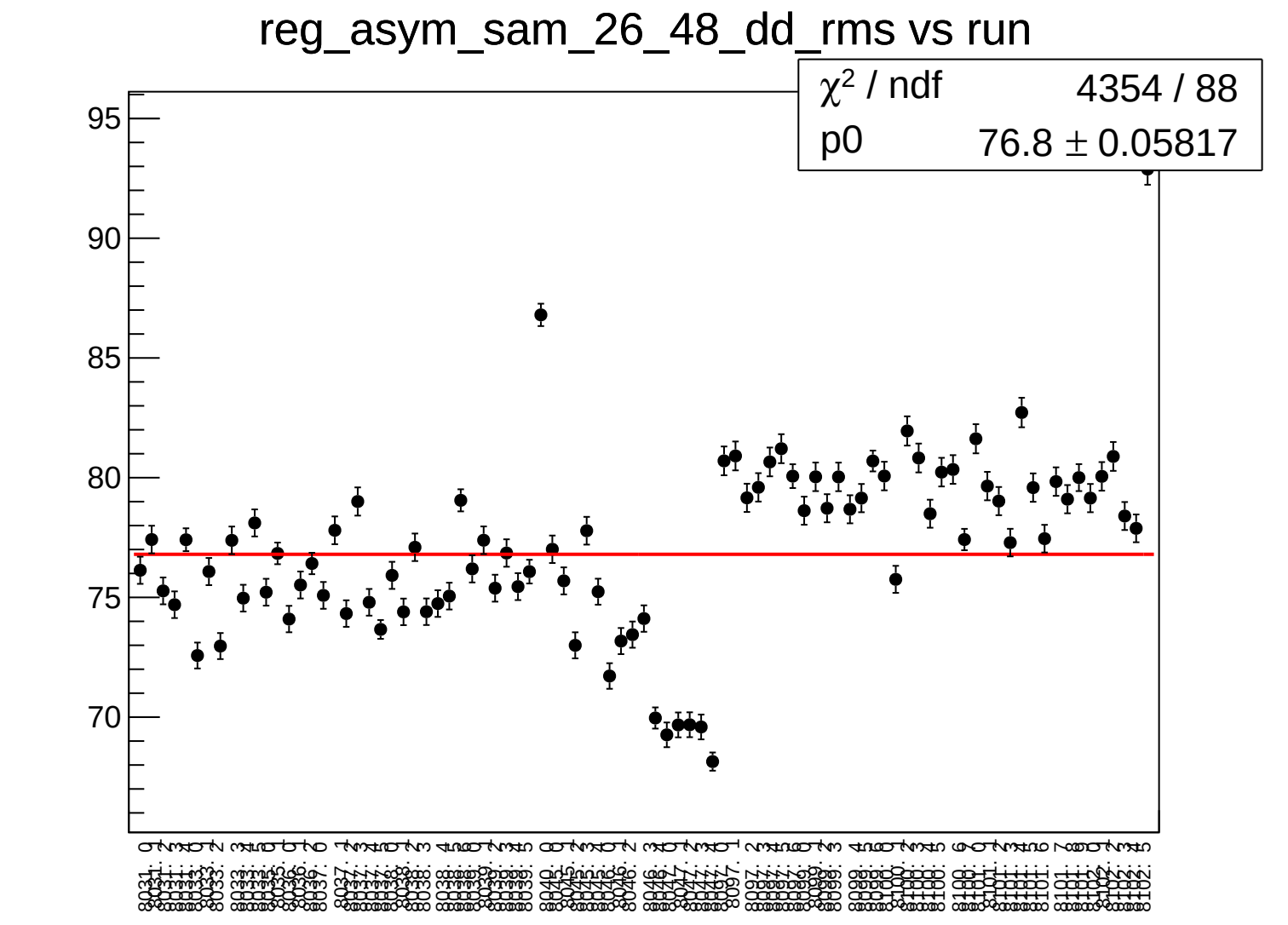

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.625e+04 / 88
p0 51.64 ± 0.03983
140
120
100
80
60
40

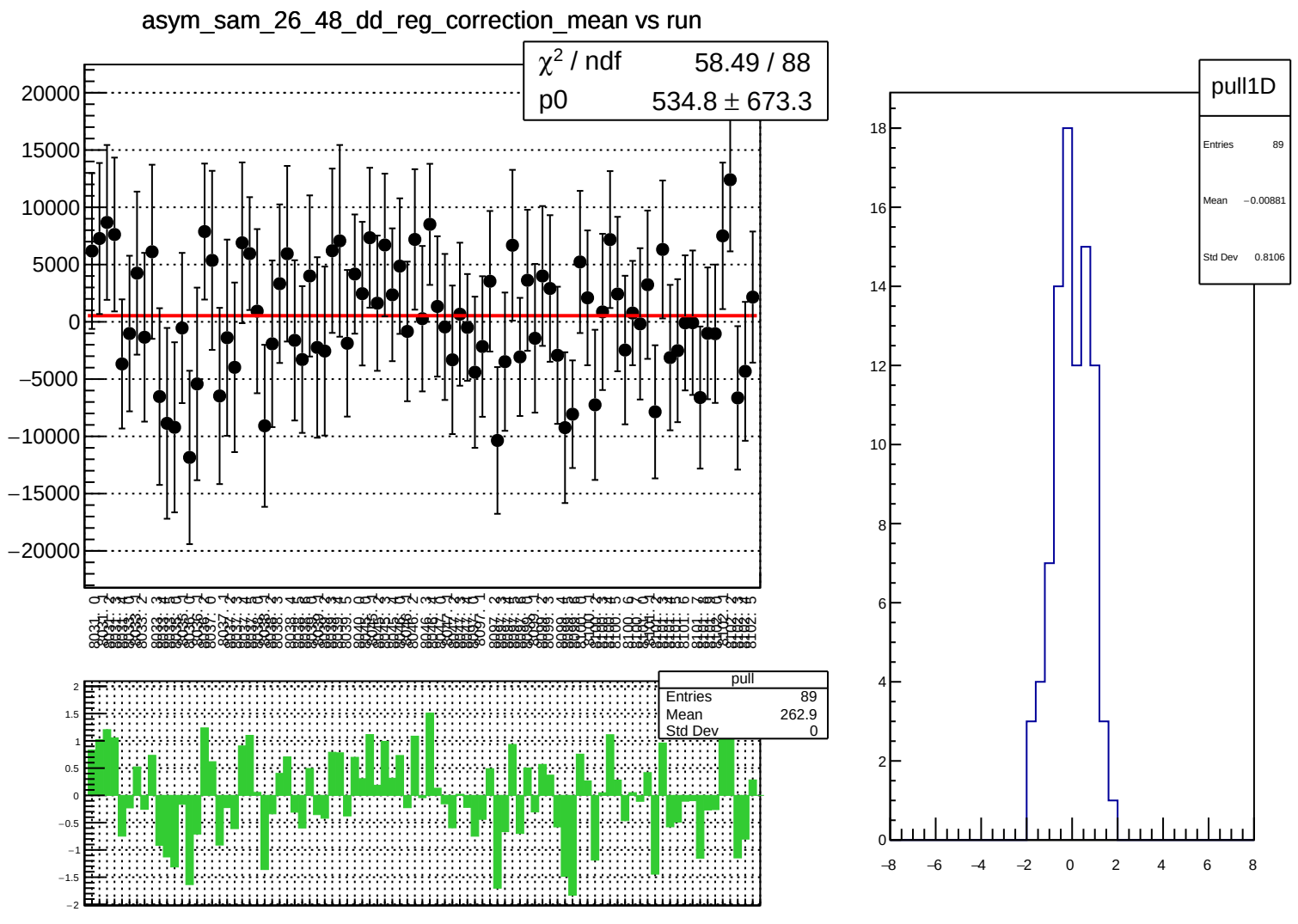

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.9 / 88
p0 −6.878e−14 ± 1.082e−13
pull
Entries 89
Mean 4.977
Std Dev 0

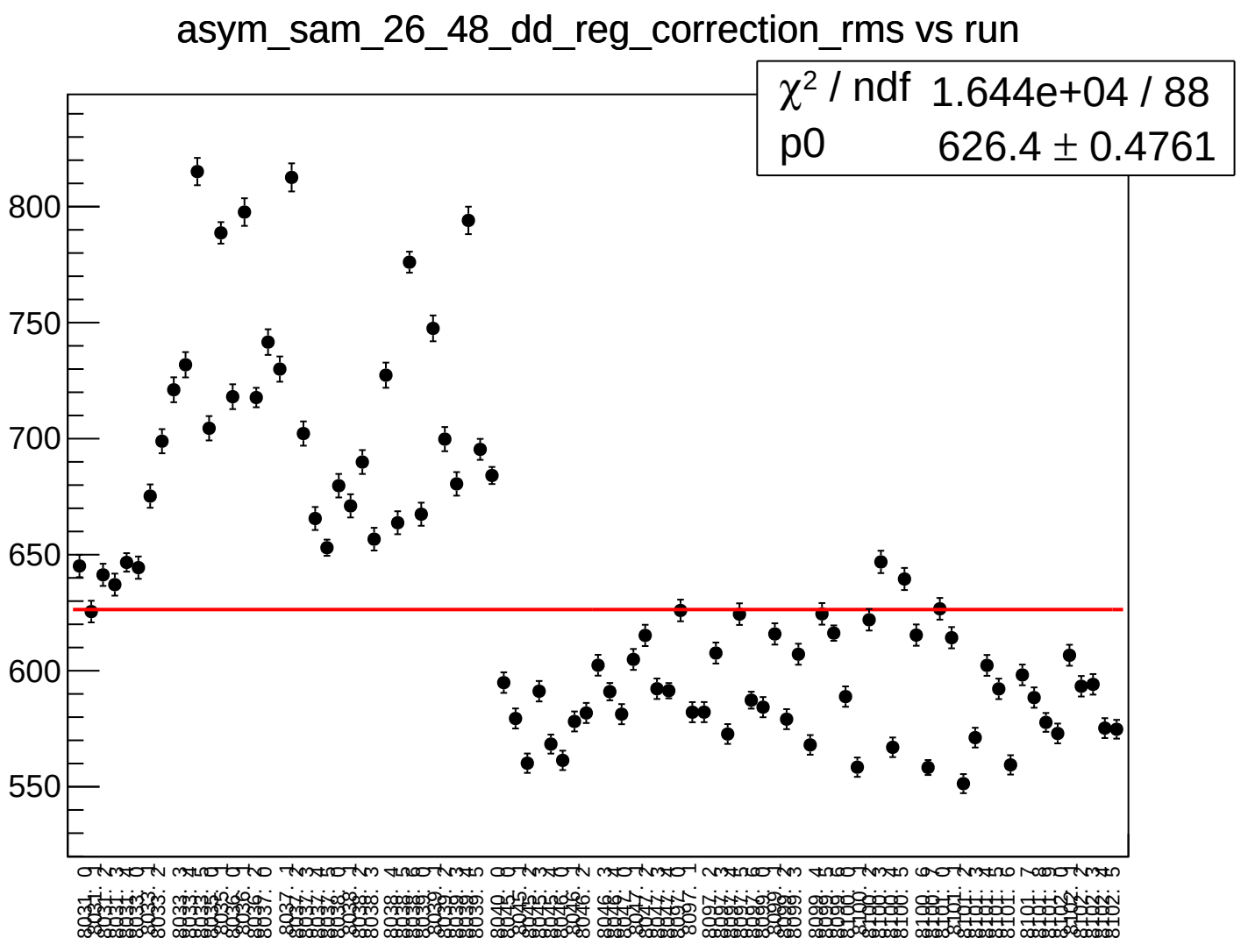

pull1D
Entries 89
Mean 0.03624
Std Dev 0.9703

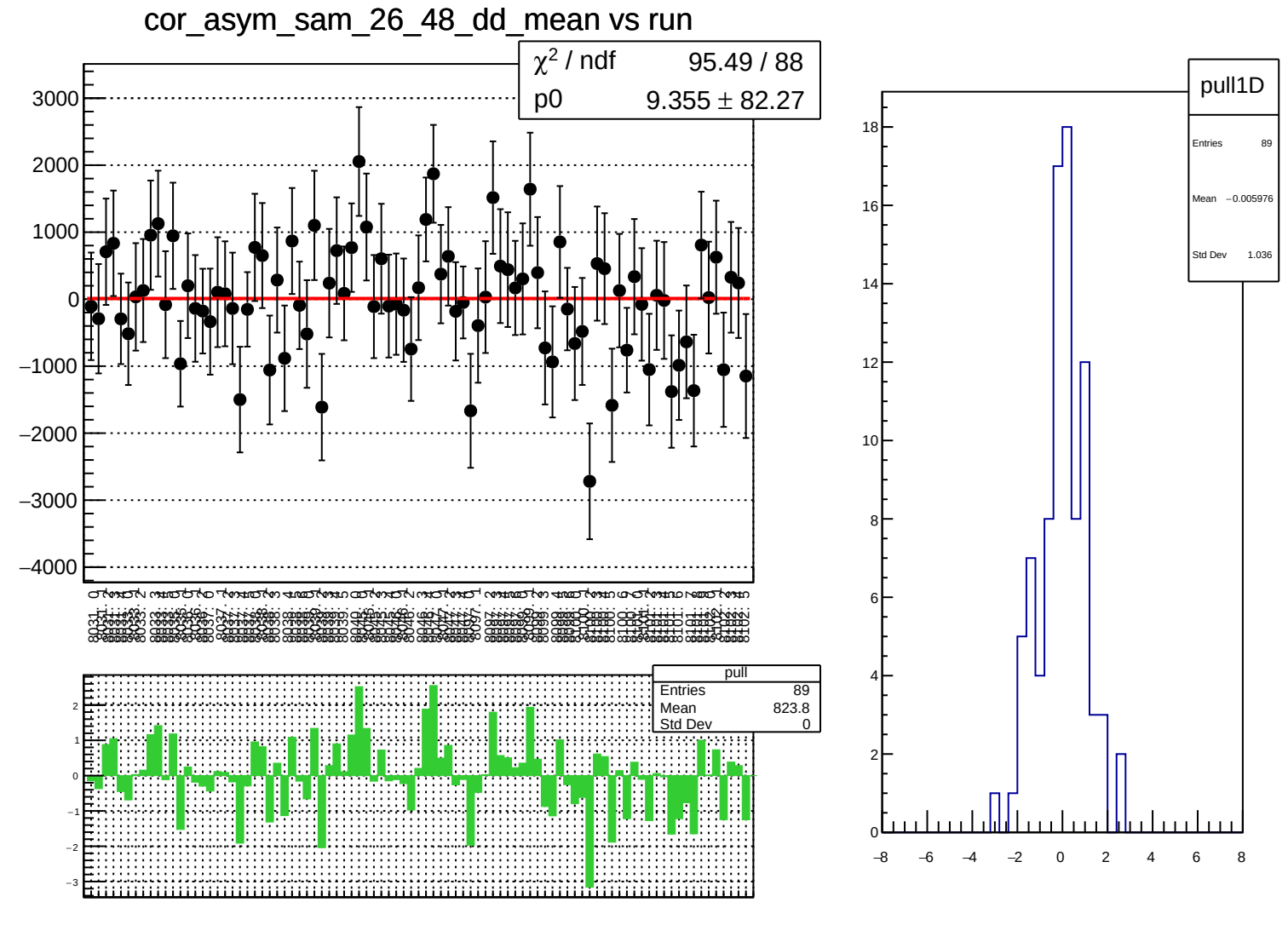

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.67e+05 / 88
p0 8.314e−11 ± 7.653e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

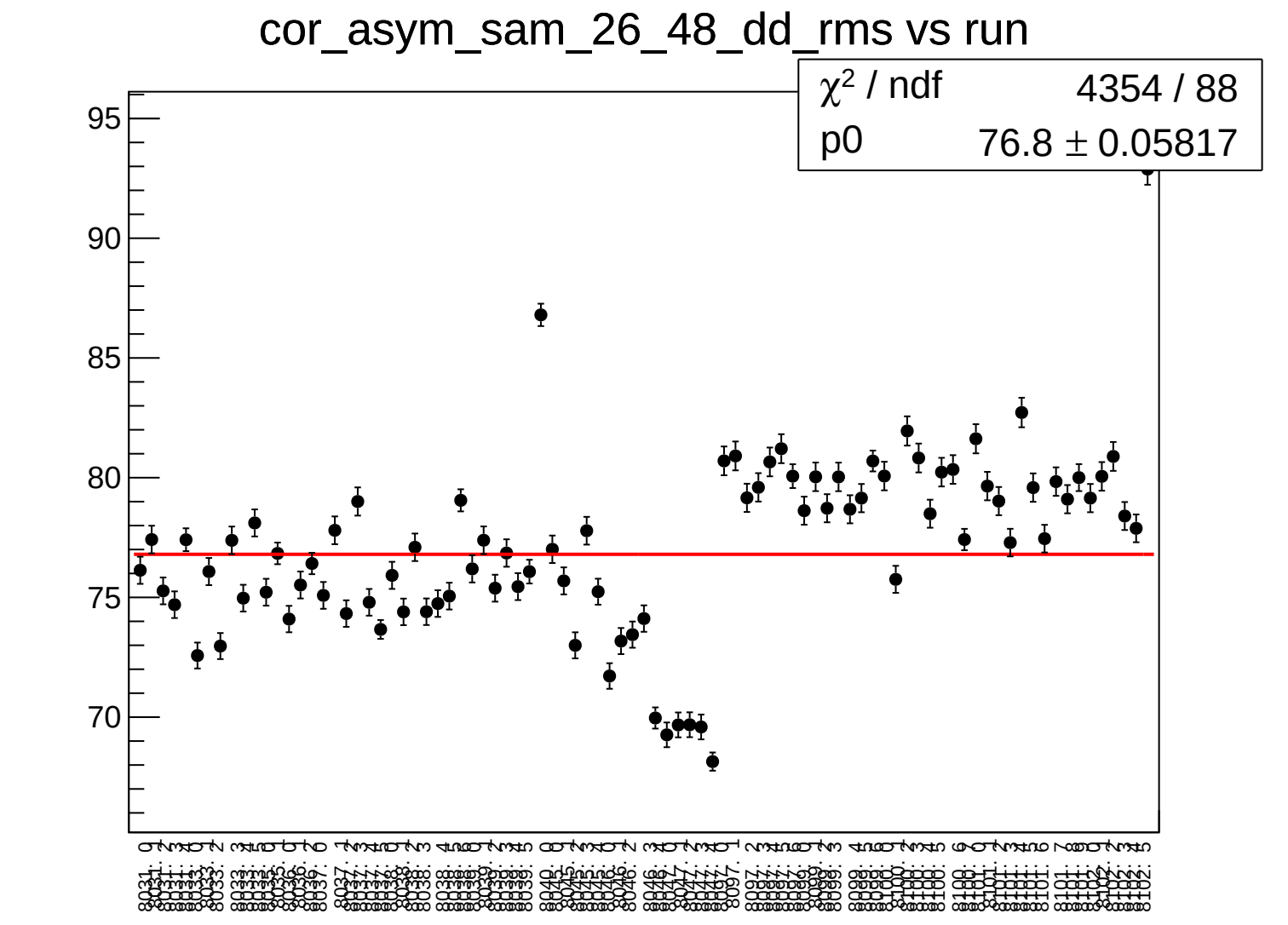

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 95.49 / 88
p0 9.346 ± 82.27
pull
Entries 89
Mean 823.9
Std Dev 0
pull1D
Entries 89
Mean −0.005977
Std Dev 1.036

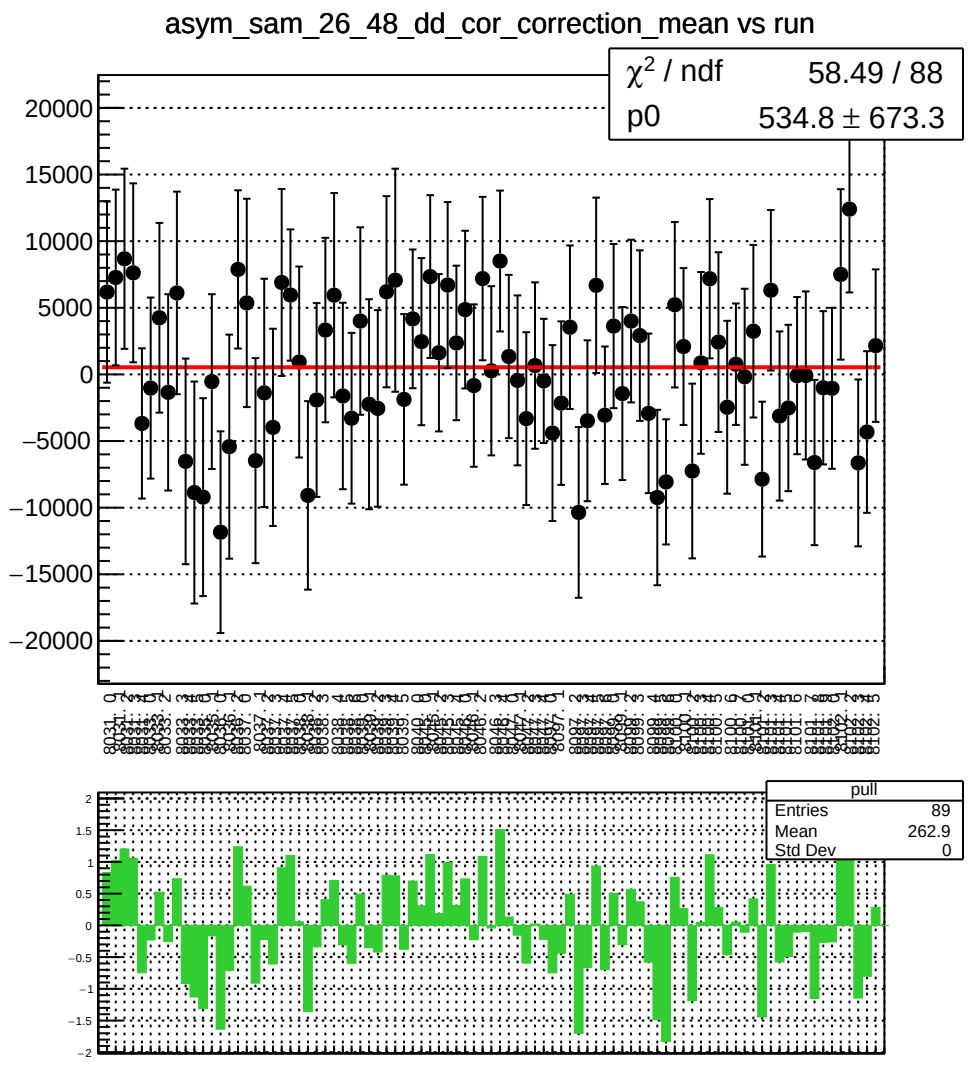

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 4354 / 88
p0 76.8 ± 0.05817
95
90
85
80
75
70

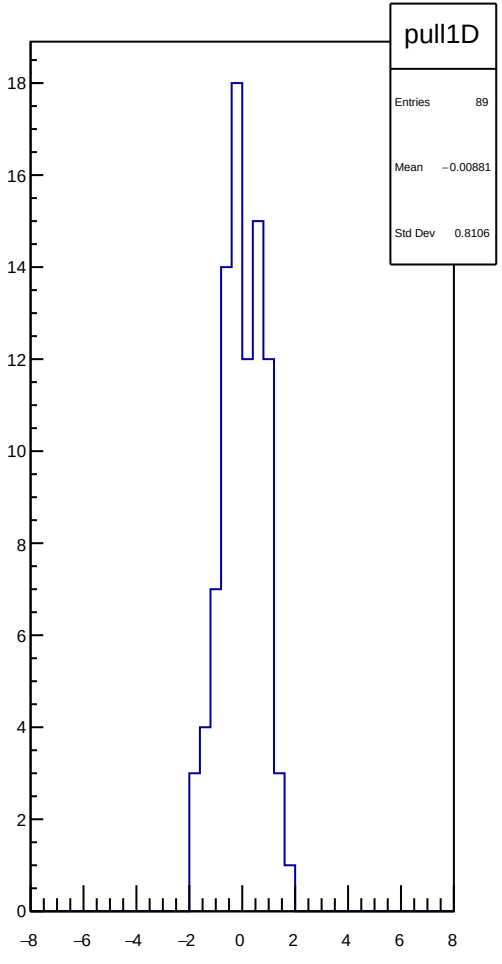

asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 58.49 / 88
p0 534.8 ± 673.3
pull
Entries 89
Mean 262.9
Std Dev 0
pull1D
Entries 89
Mean −0.00881
Std Dev 0.8106

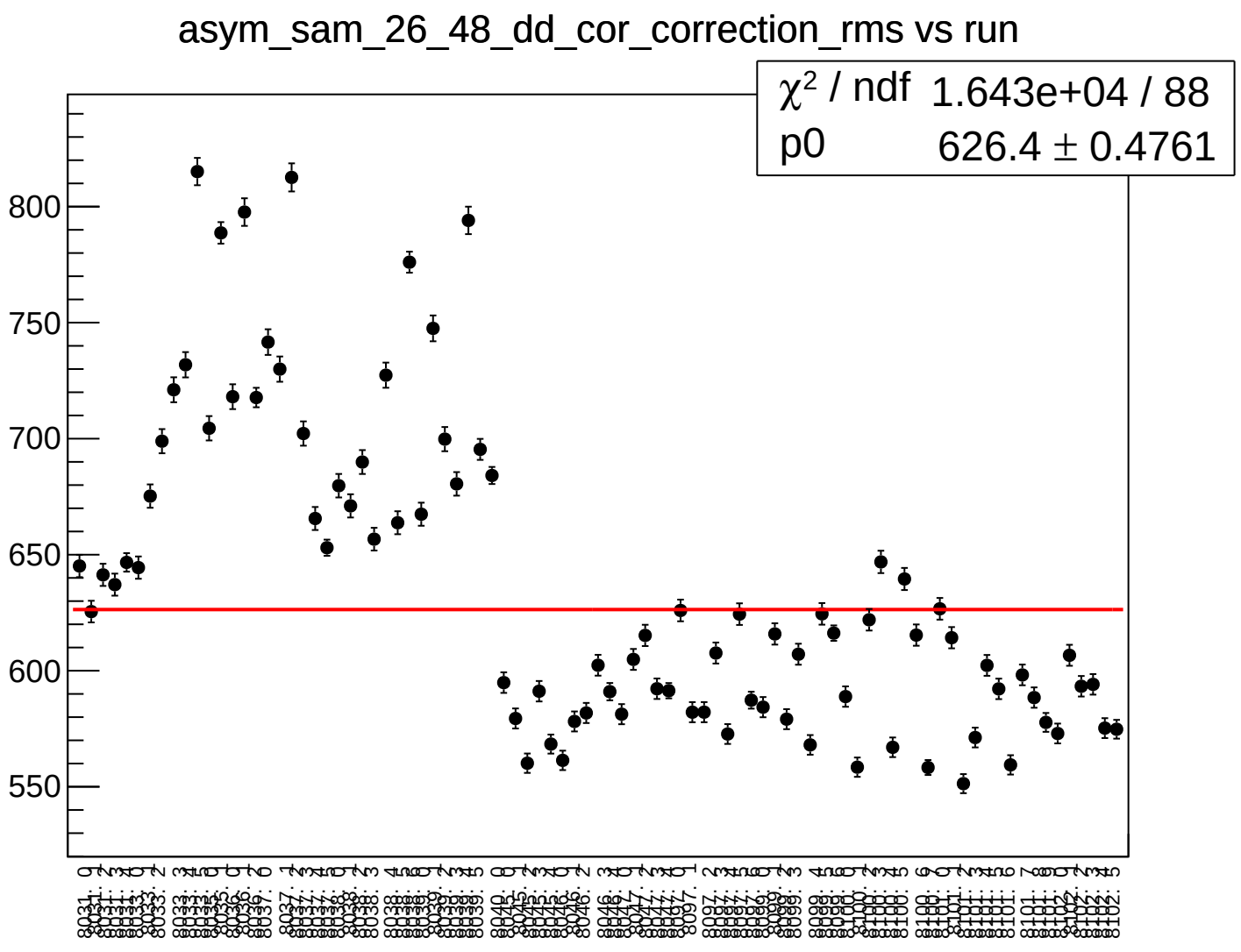

asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 1.644e+04 / 88
p0 626.4 ± 0.4761
800
750
700
650
600
550

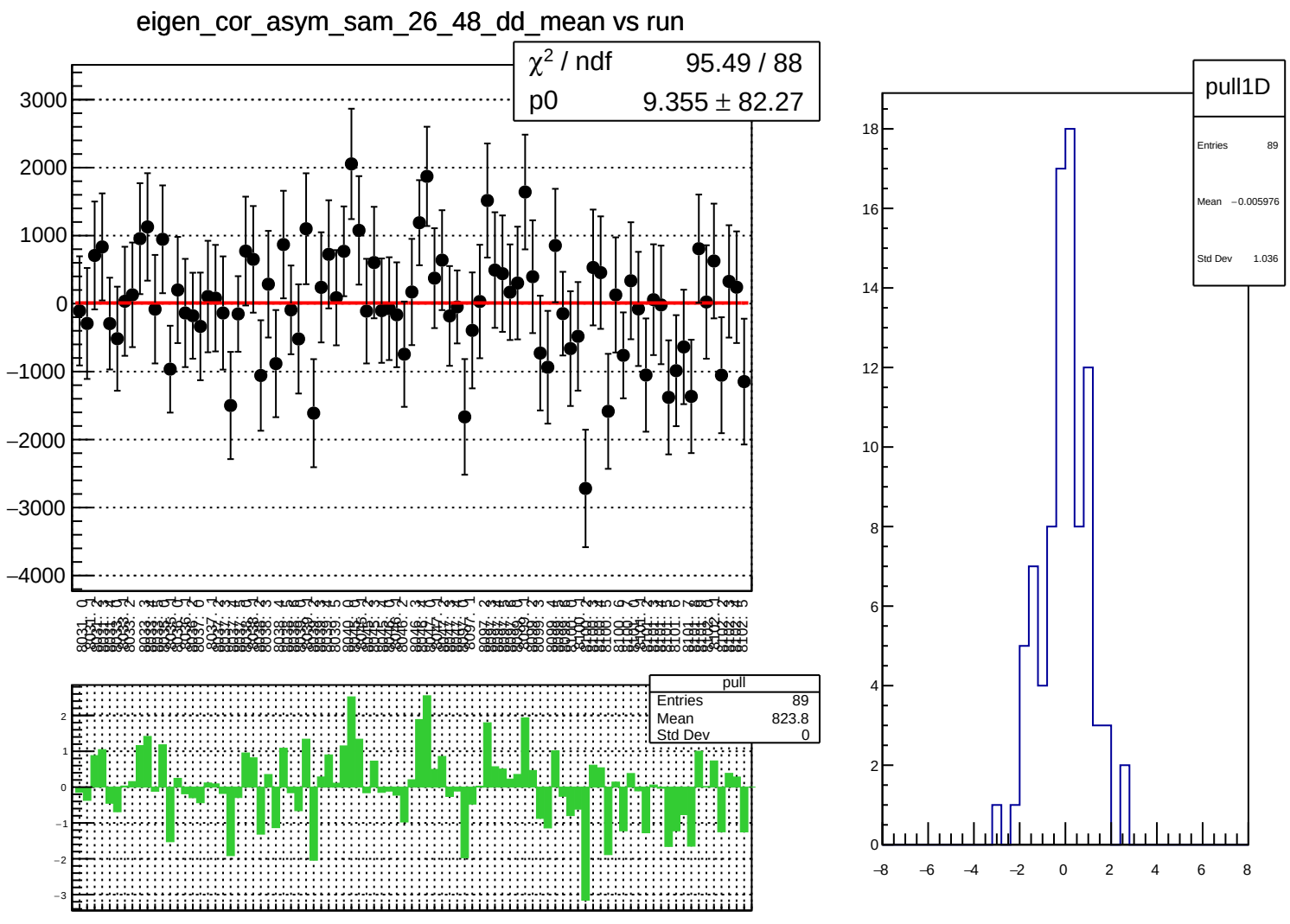

cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 95.49 / 88
p0 9.355 ± 82.27
pull
Entries 89
Mean 823.8
Std Dev 0
pull1D
Entries 89
Mean −0.005976
Std Dev 1.036

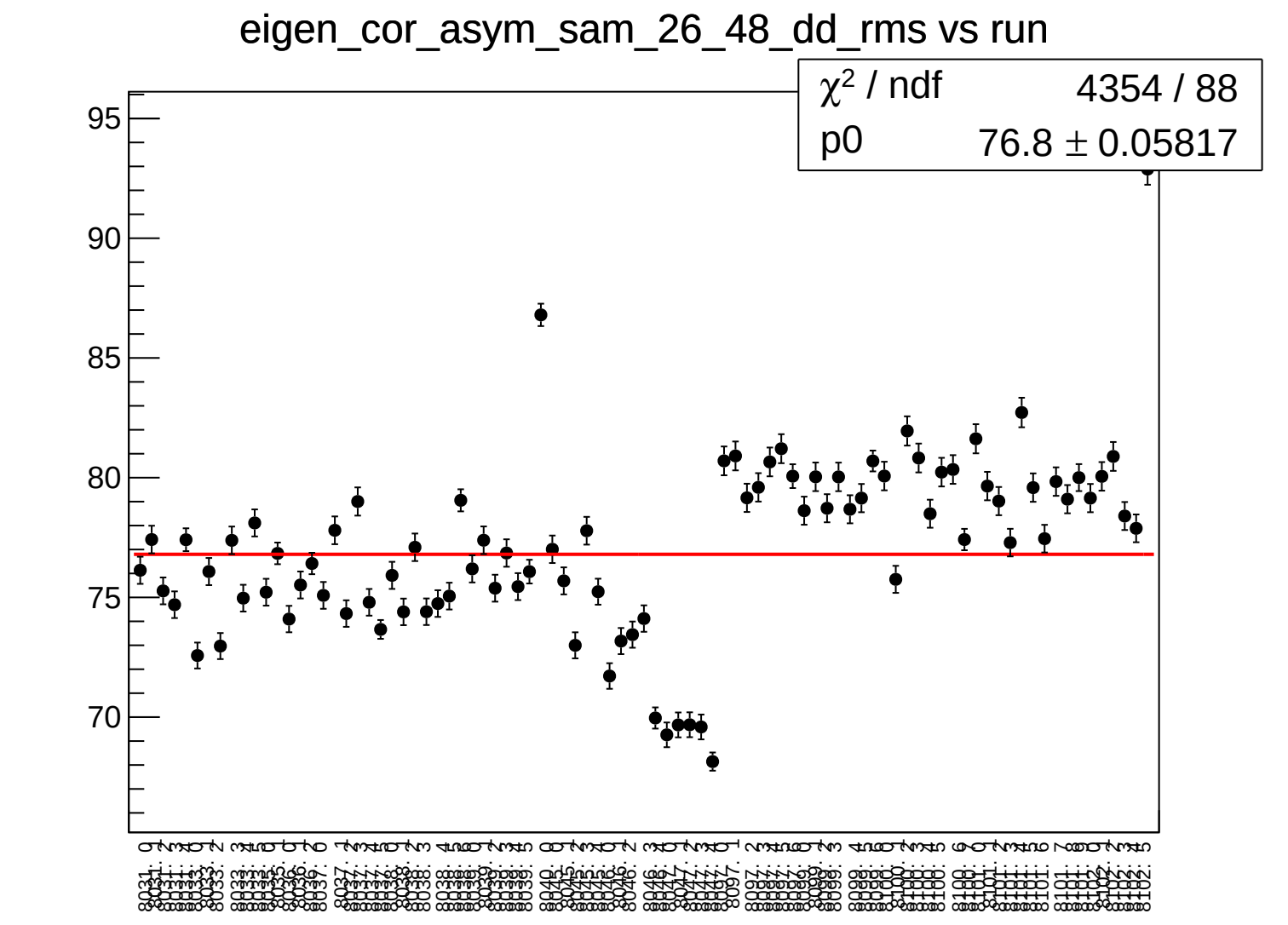

cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 4354 / 88
p0 76.8 ± 0.05817
95
90
85
80
75
70

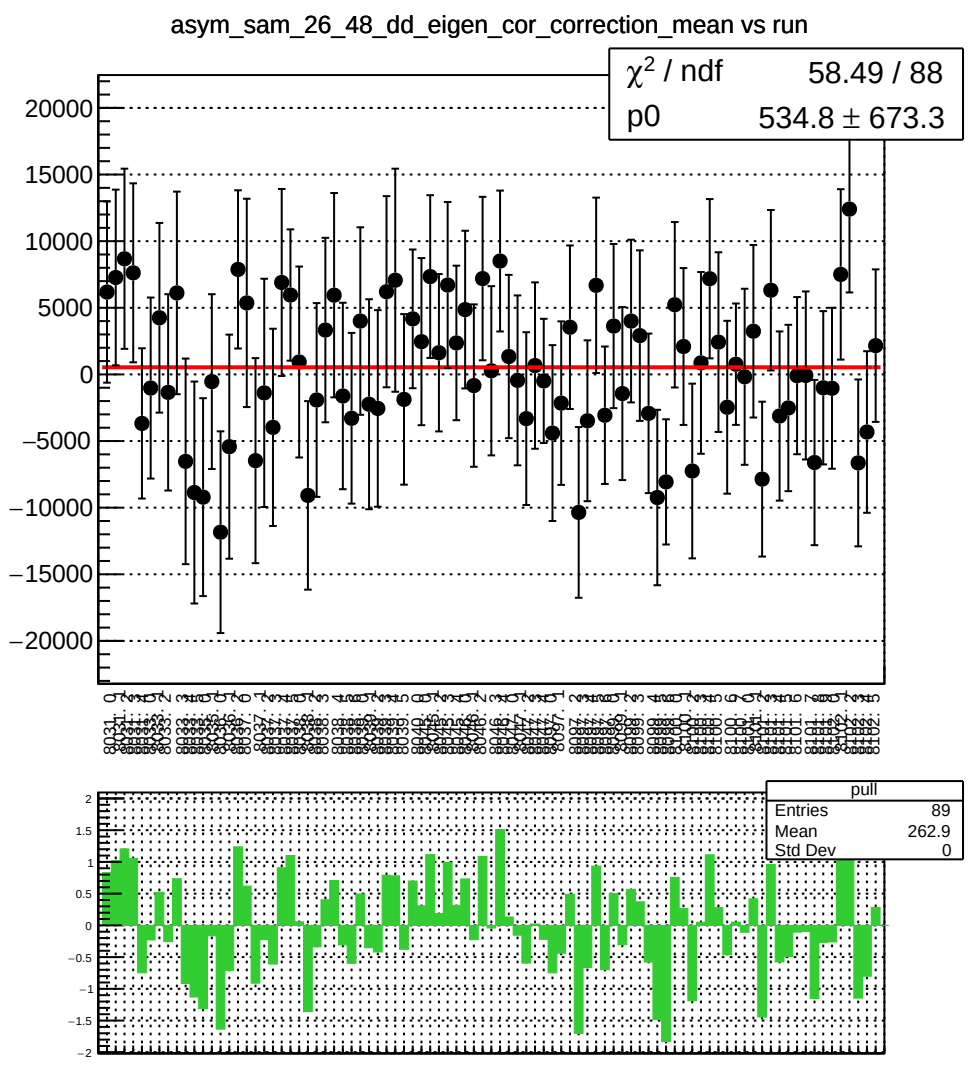

asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 58.49 / 88
p0 534.8 ± 673.3
pull
Entries 89
Mean 262.9
Std Dev 0

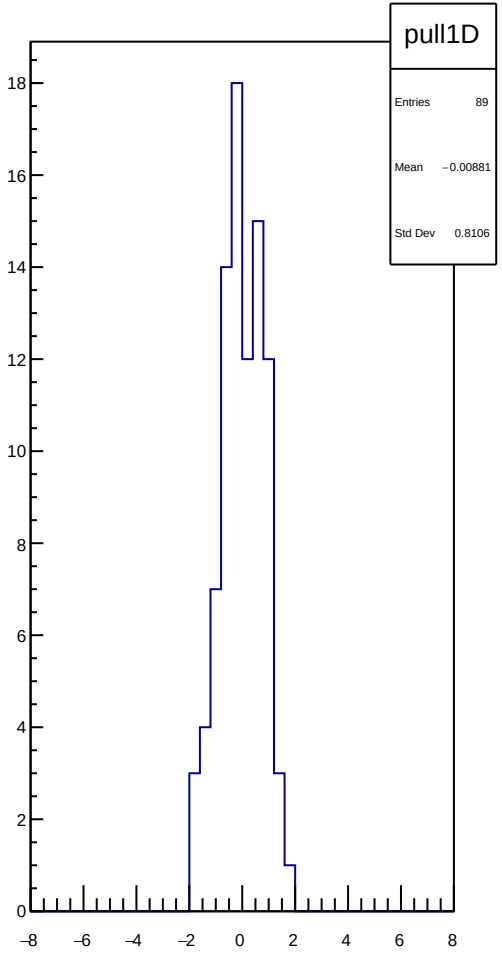

pull1D
Entries 89
Mean −0.00881
Std Dev 0.8106

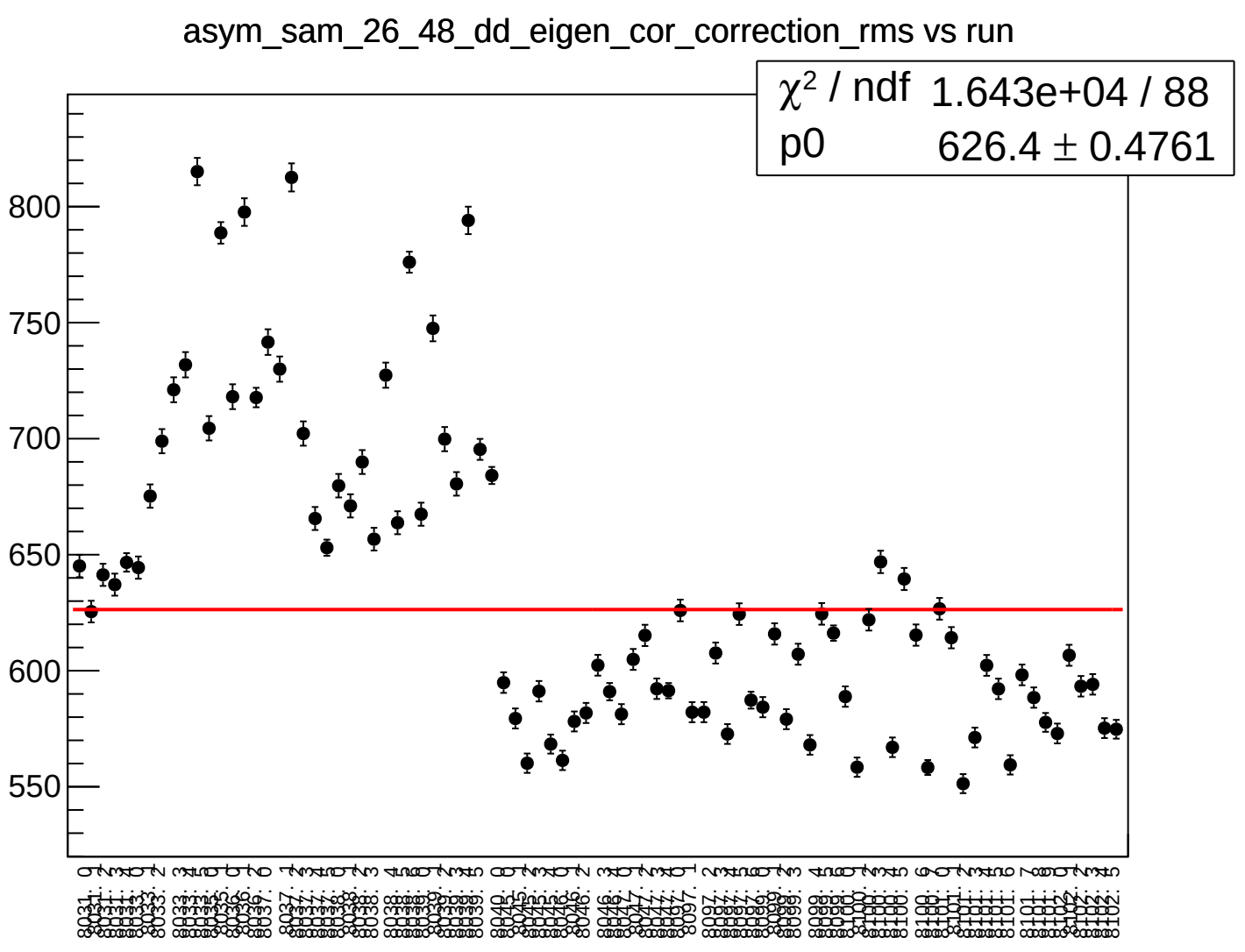

asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 1.643e+04 / 88
p0 626.4 ± 0.4761
800
750
700
650
600
550

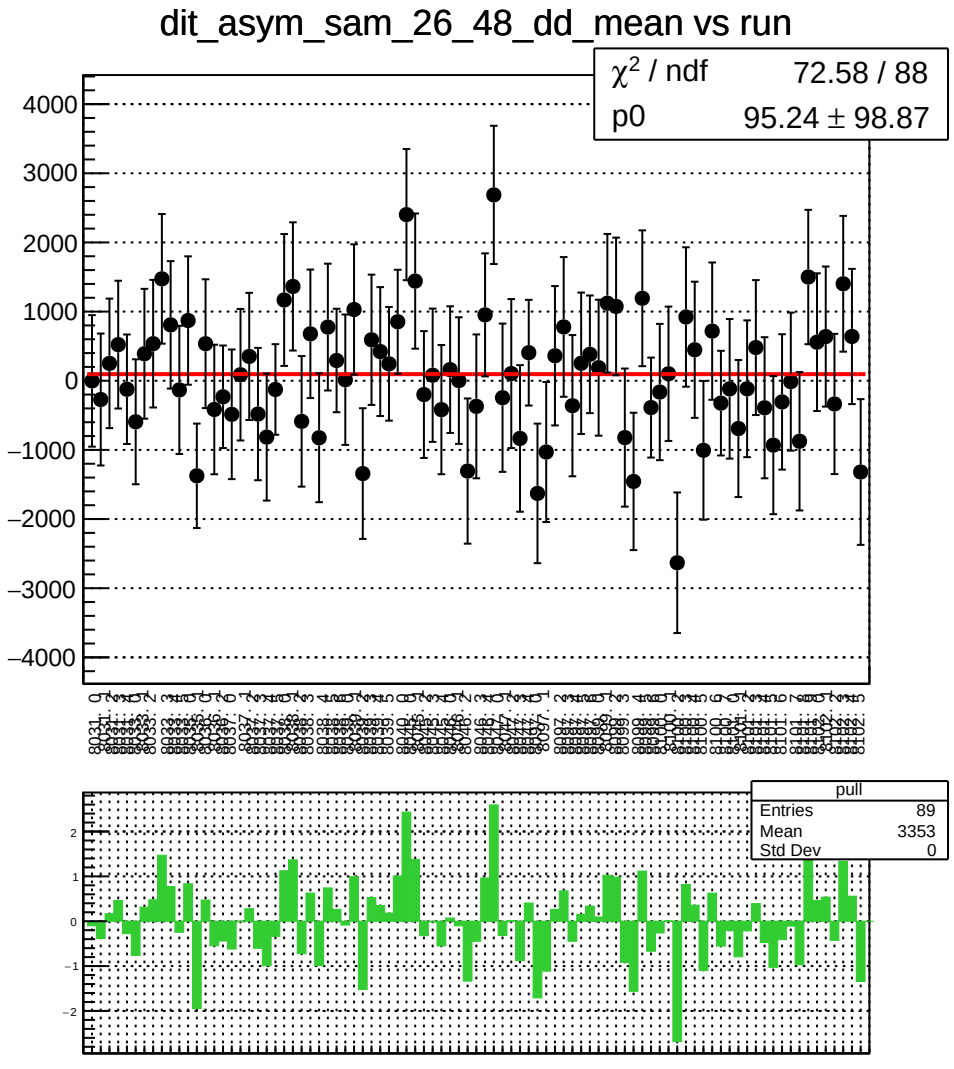

eigen_cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 95.49 / 88
p0 9.355 ± 82.27
pull
Entries 89
Mean 823.8
Std Dev 0
pull1D
Entries 89
Mean −0.005976
Std Dev 1.036

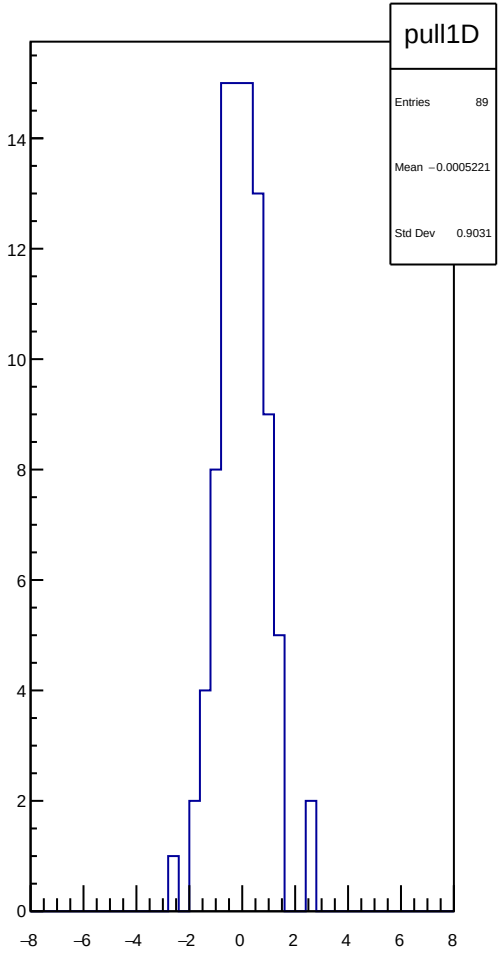

eigen_cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 4354 / 88
p0 76.8 ± 0.05817
95
90
85
80
75
70

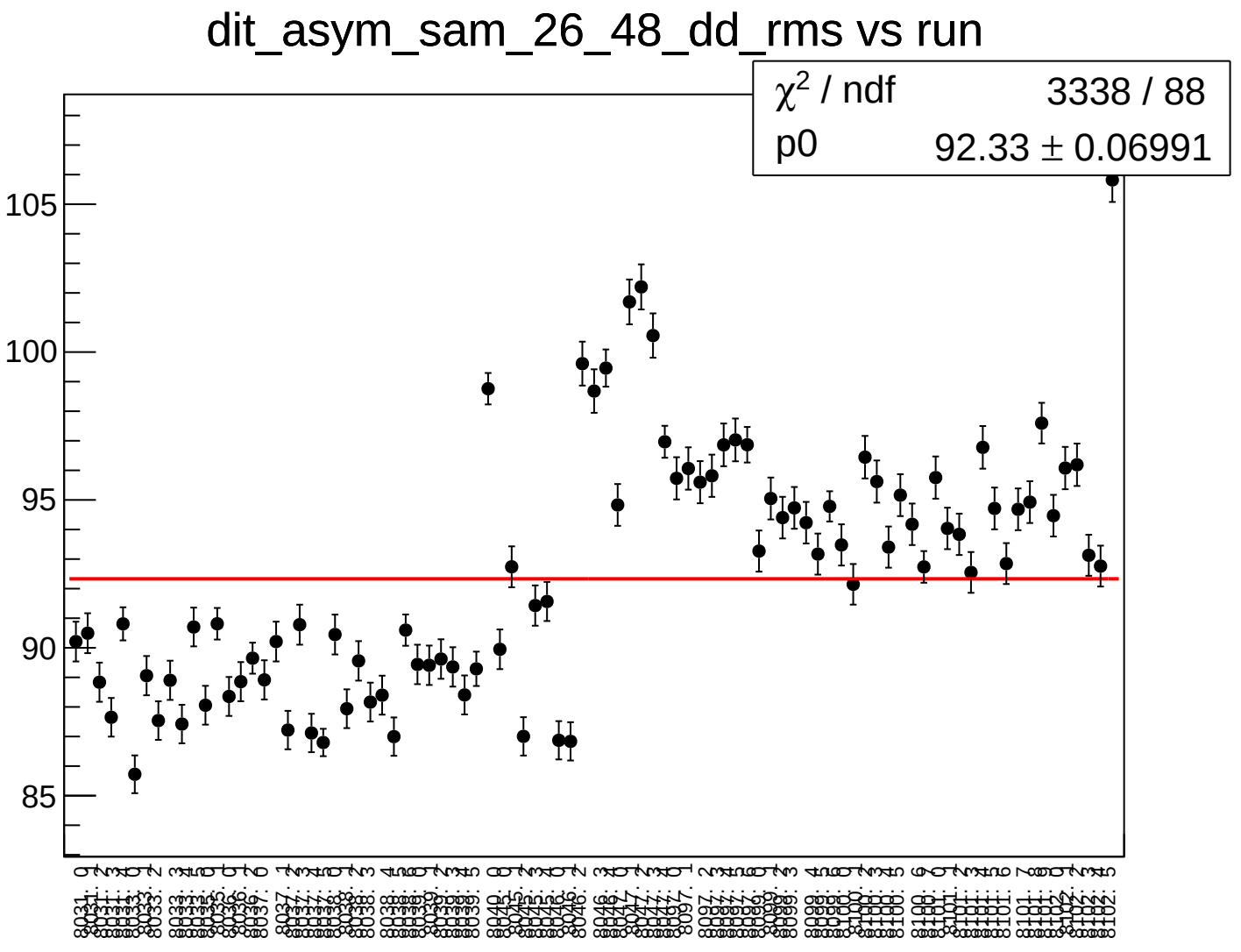

asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 58.49 / 88
p0 534.8 ± 673.3
pull
Entries 89
Mean 262.9
Std Dev 0

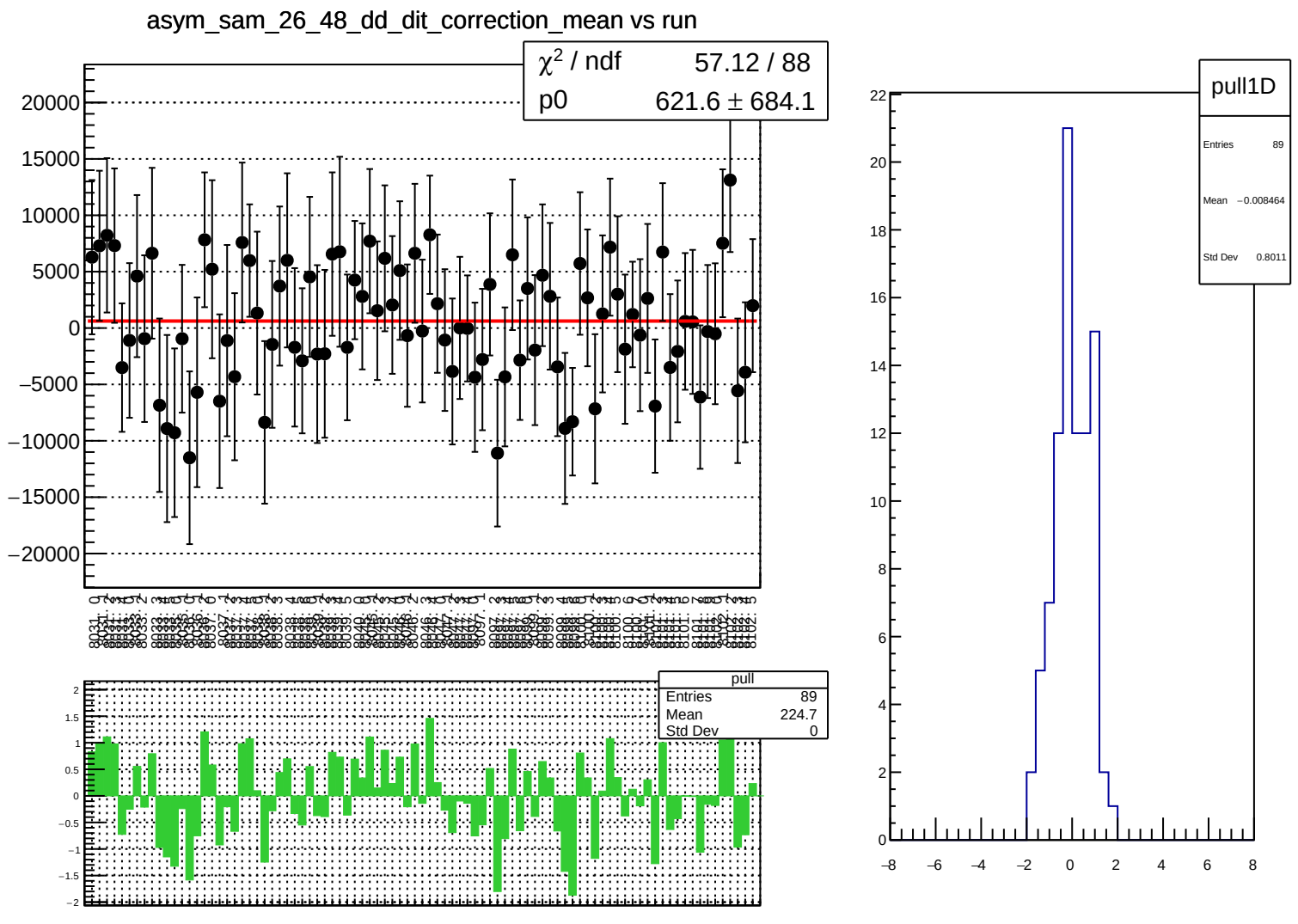

pull1D
Entries 89
Mean −0.00881
Std Dev 0.8106

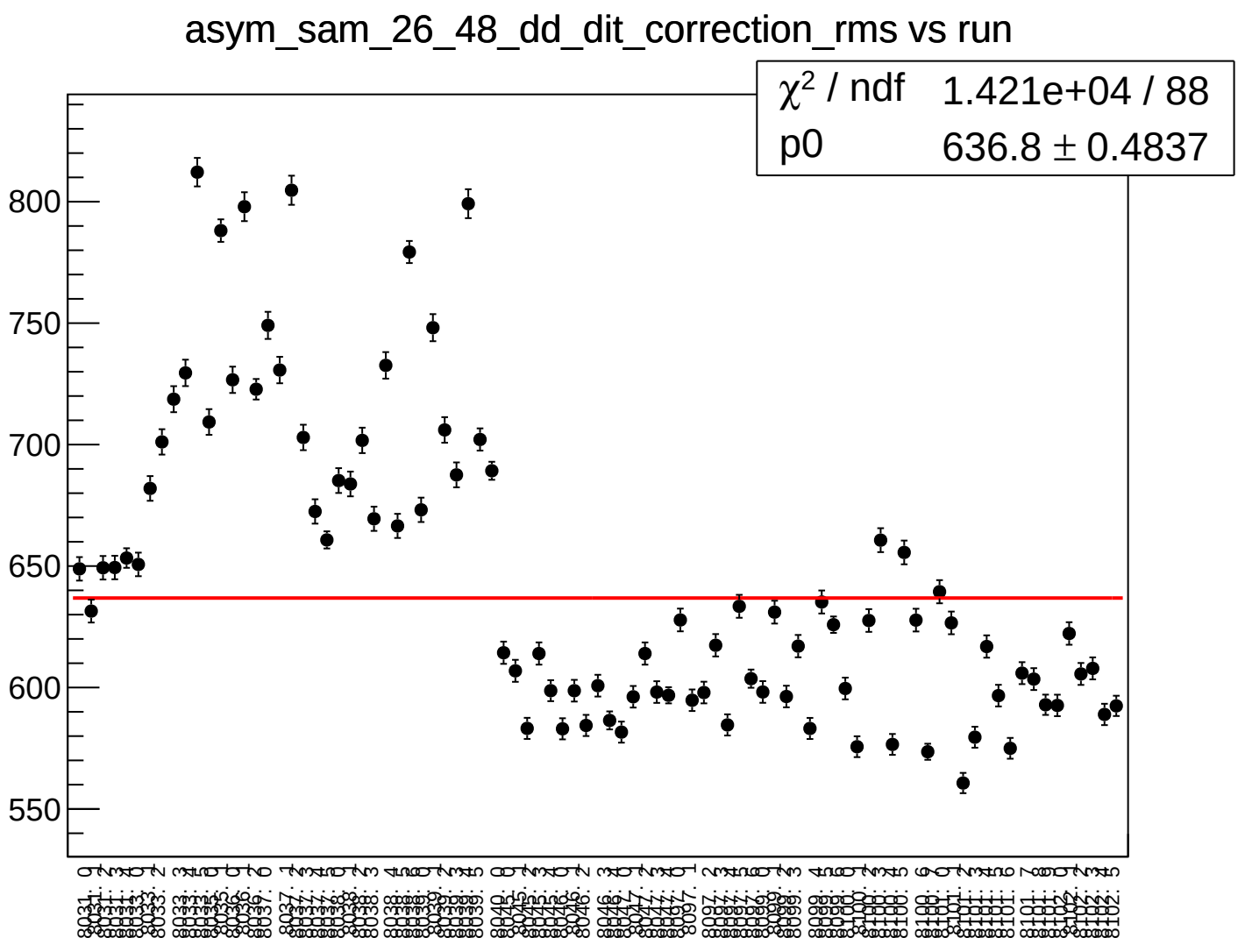

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.643e+04 / 88
p0 626.4 ± 0.4761
800
750
700
650
600
550

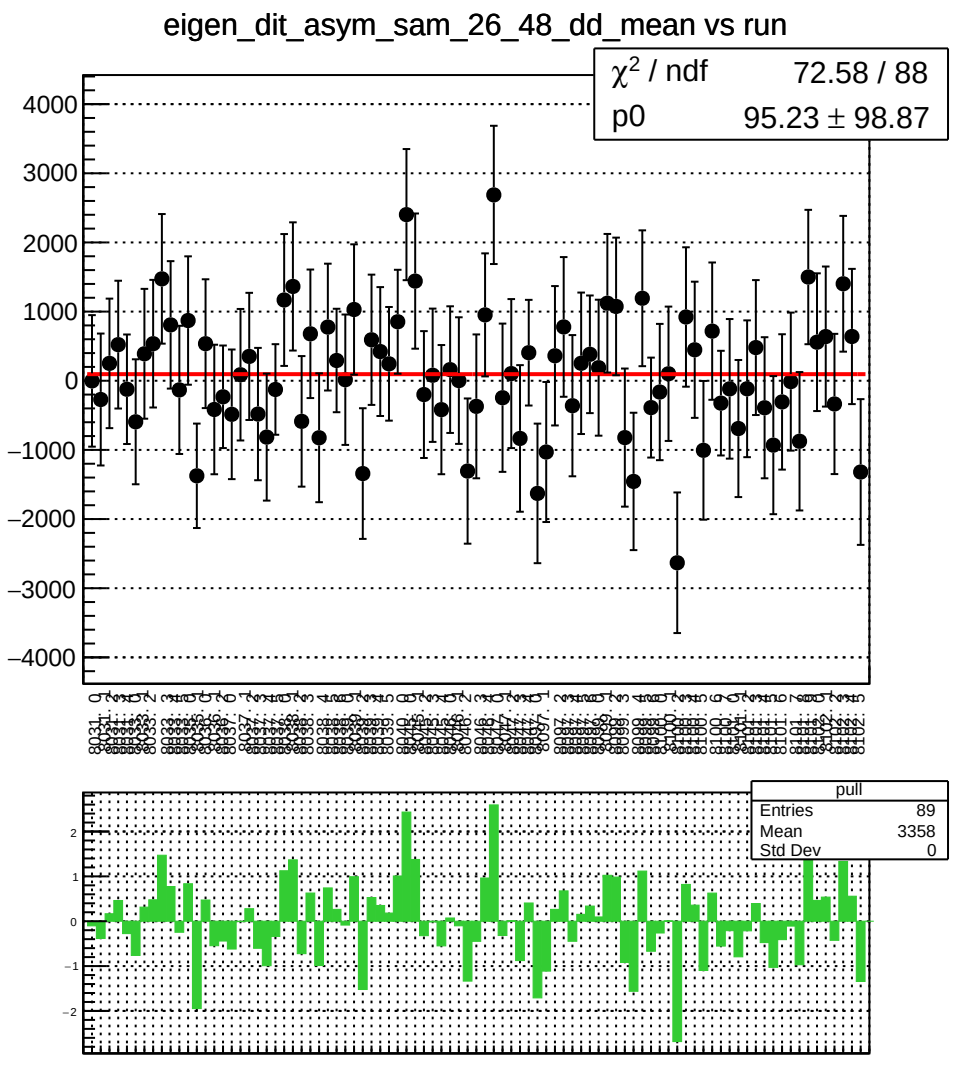

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 72.58 / 88
p0 95.24 ± 98.87
pull
Entries 89
Mean 3353
Std Dev 0

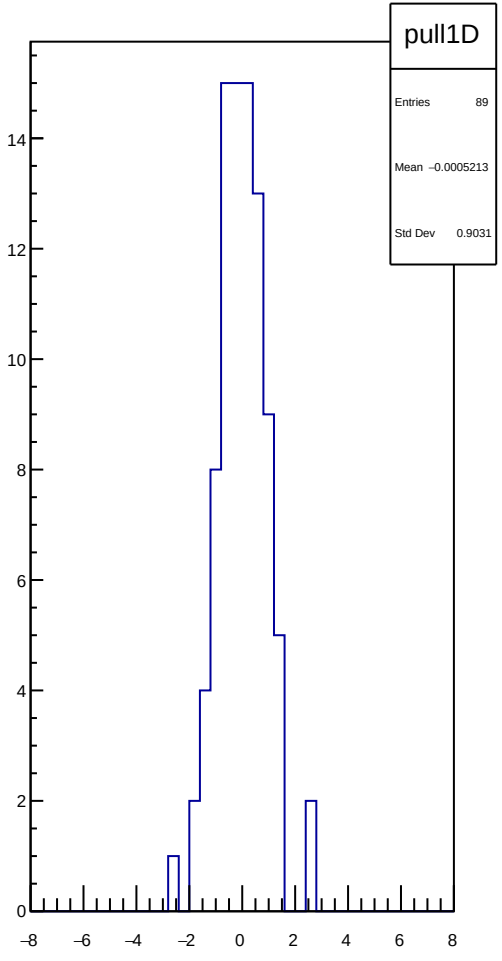

pull1D
Entries 89
Mean −0.0005221
Std Dev 0.9031

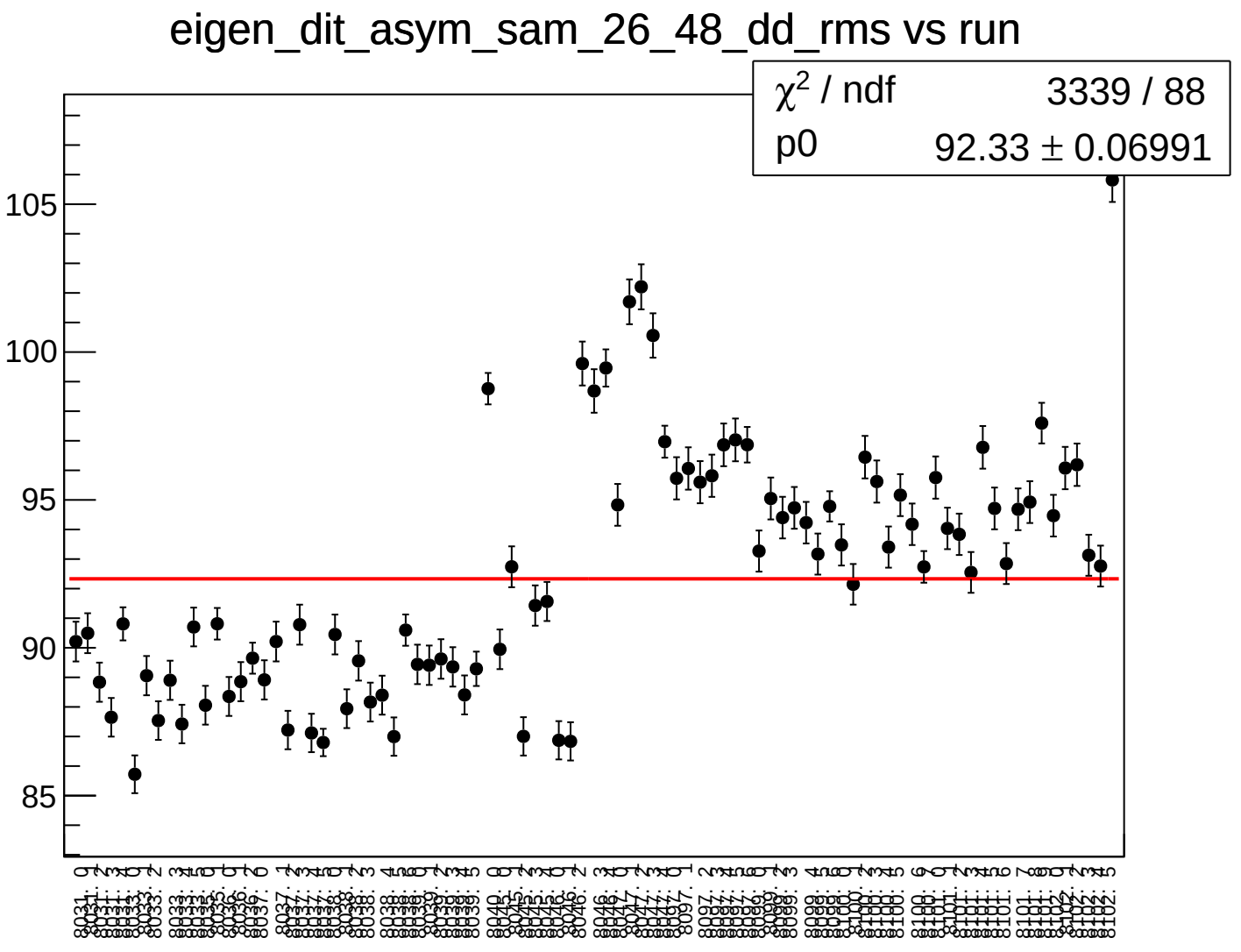

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 3338 / 88
p0 92.33 ± 0.06991
105
100
95
90
85

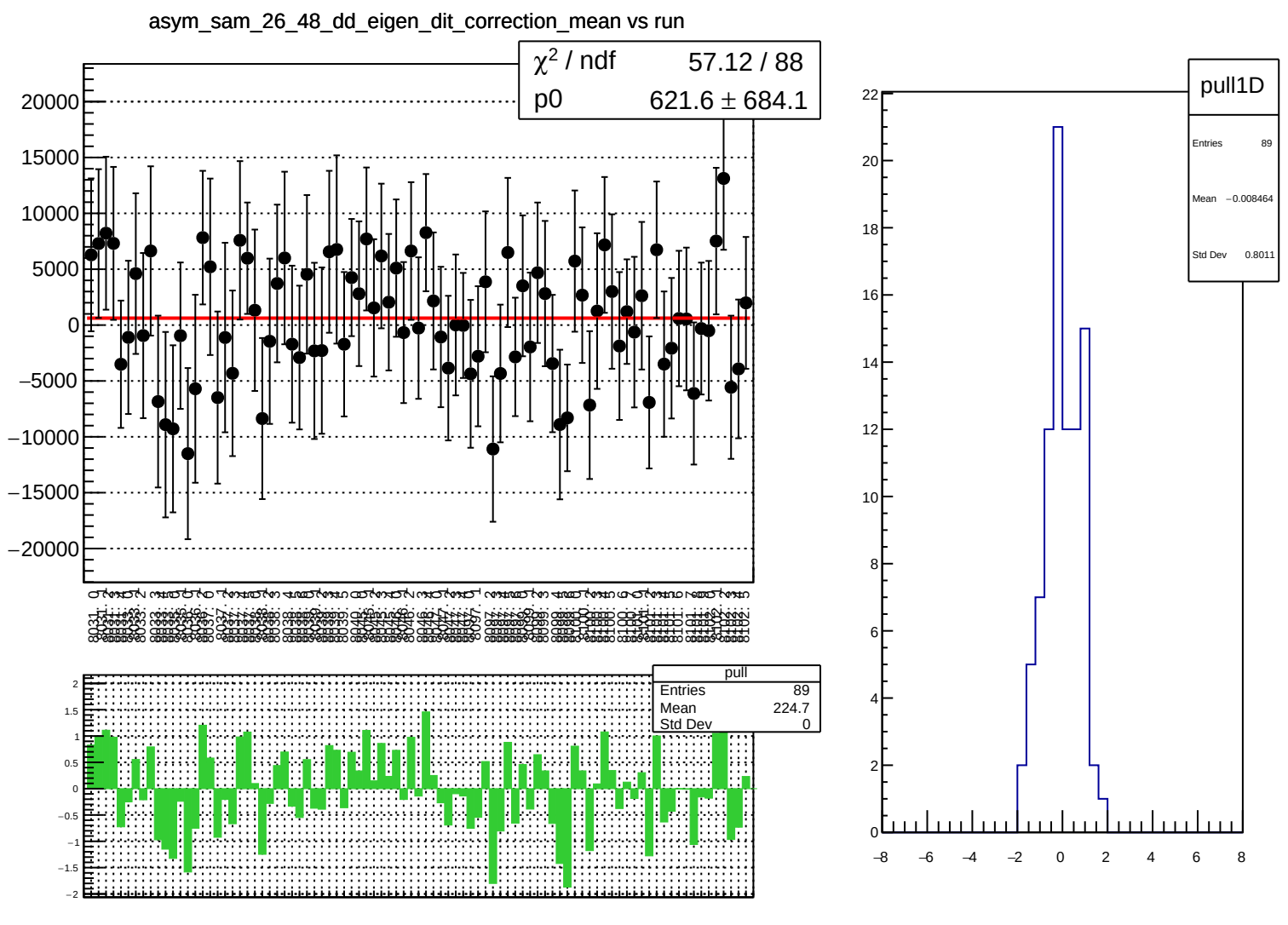

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 57.12 / 88
p0 621.6 ± 684.1
pull
Entries 89
Mean 224.7
Std Dev 0
pull1D
Entries 89
Mean −0.008464
Std Dev 0.8011

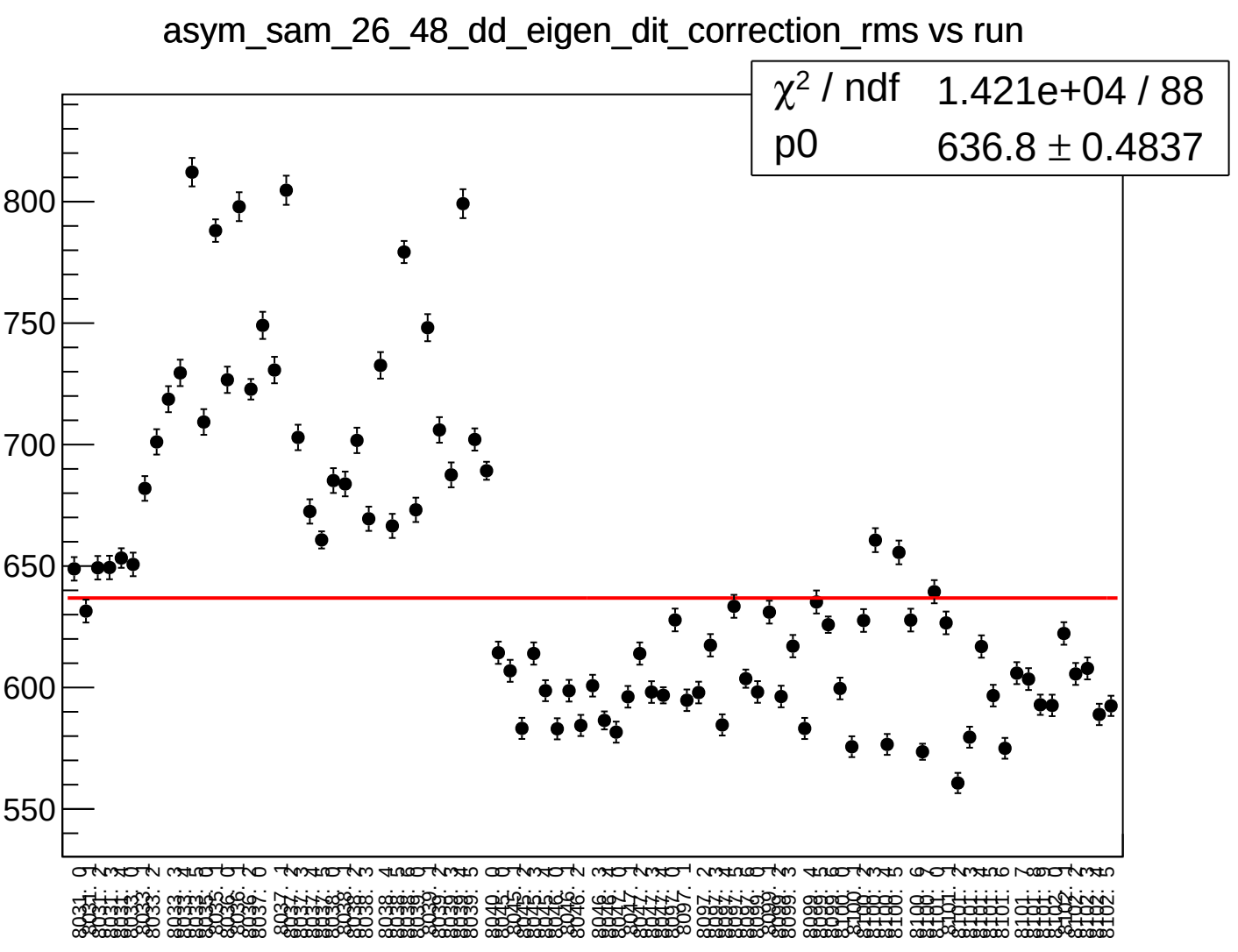

asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 1.421e+04 / 88
p0 636.8 ± 0.4837
800
750
700
650
600
550

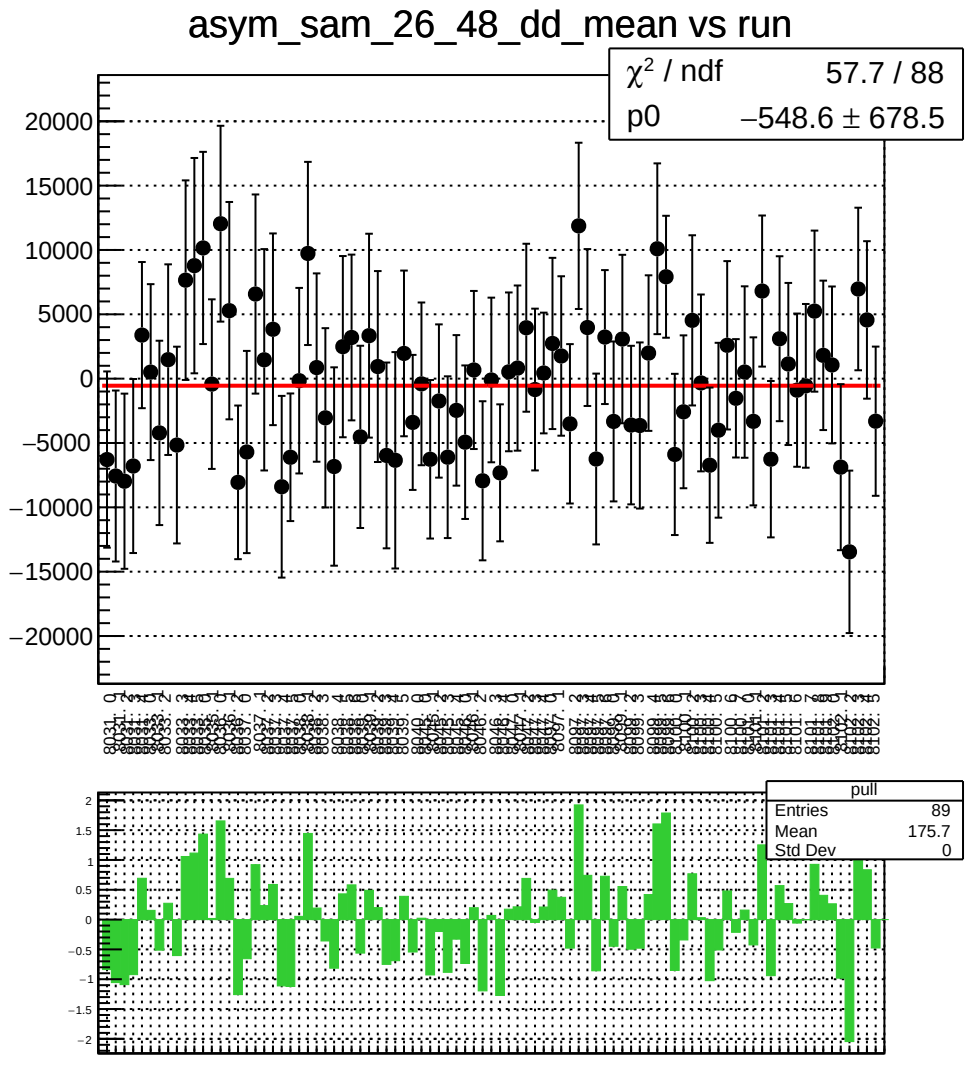

eigen_dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 72.58 / 88
p0 95.23 ± 98.87
pull
Entries 89
Mean 3358
Std Dev 0

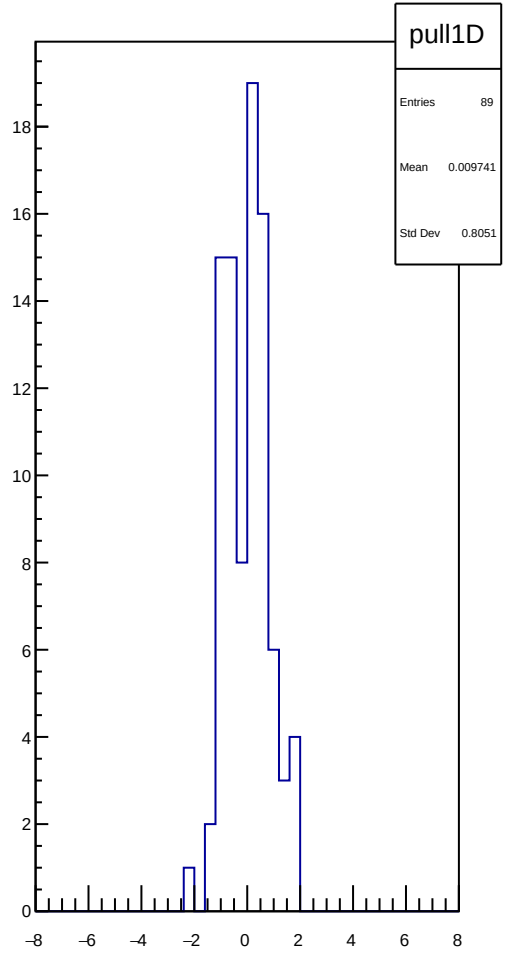

pull1D
Entries 89
Mean −0.0005213
Std Dev 0.9031

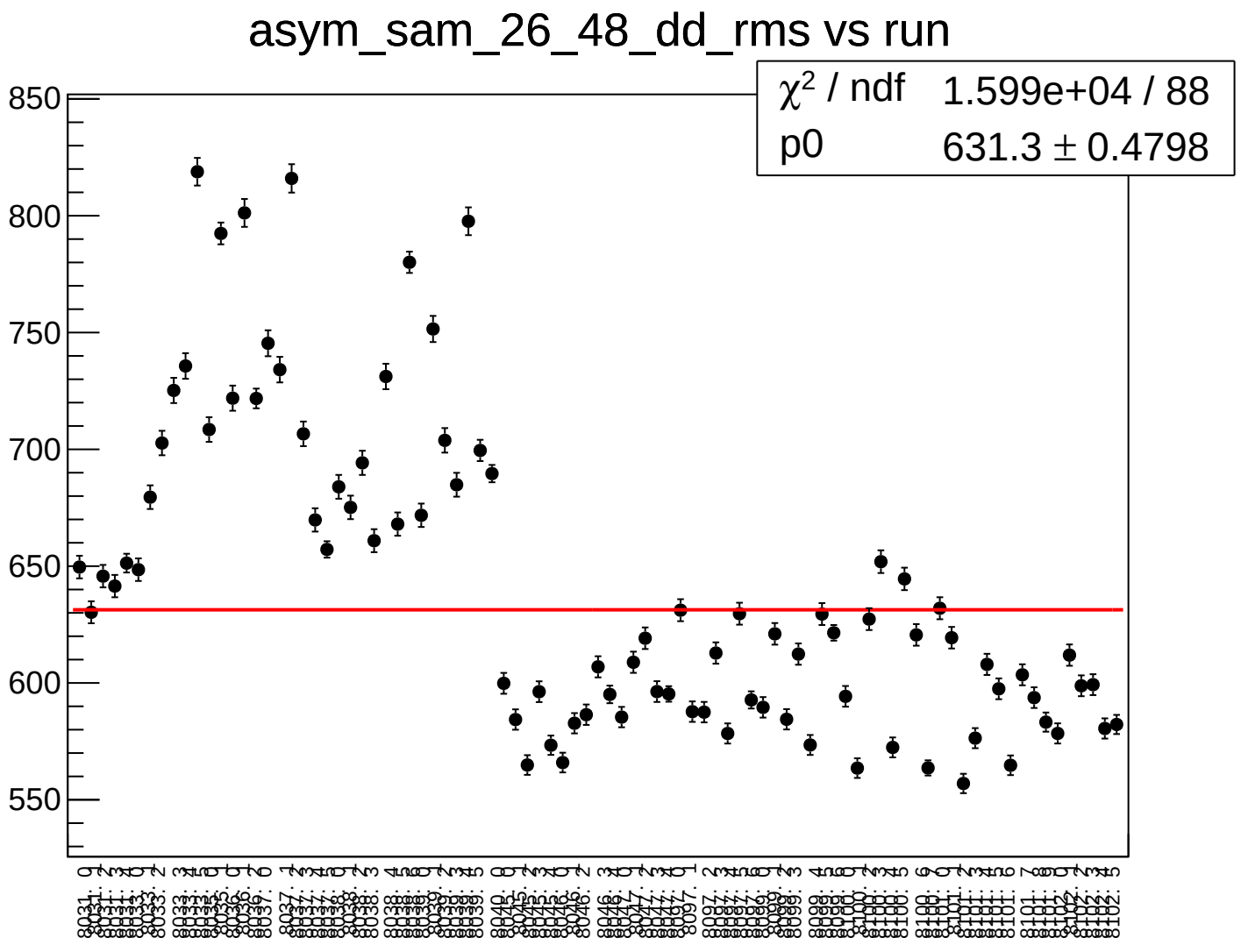

eigen_dit_asym_sam_26_48_dd_rms vs run
$\chi^2$ / ndf 3339 / 88
p0 92.33 ± 0.06991
105
100
95
90
85

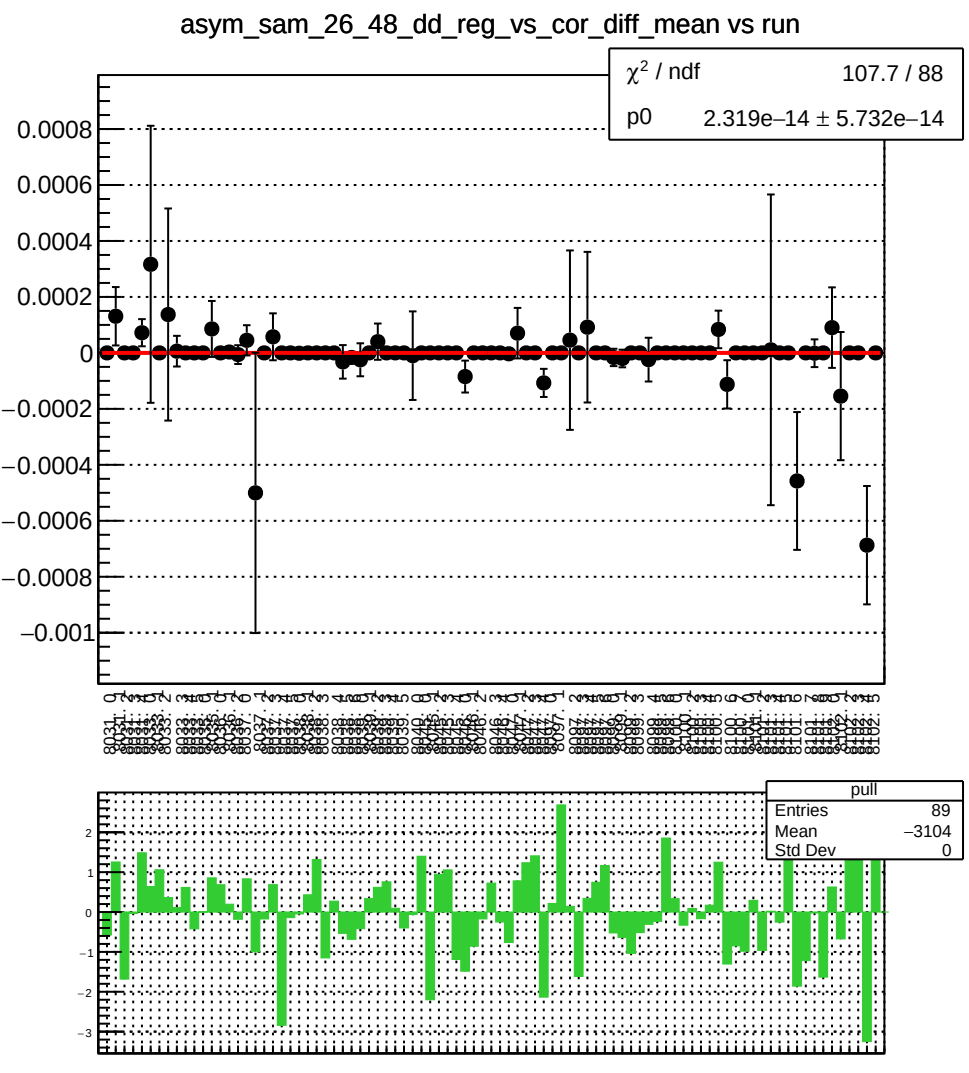

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 57.12 / 88
p0 621.6 ± 684.1
pull
Entries 89
Mean 224.7
Std Dev 0
pull1D
Entries 89
Mean −0.008464
Std Dev 0.8011

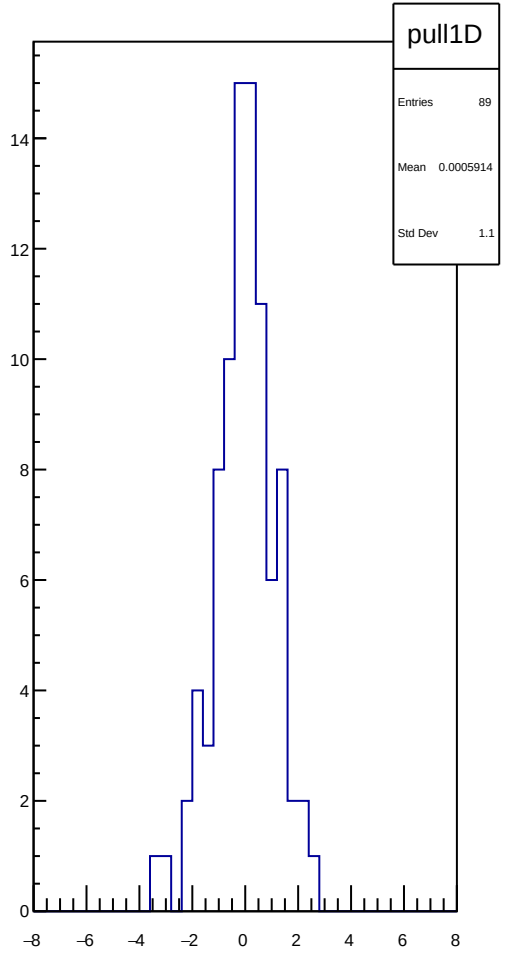

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.421e+04 / 88
p0 636.8 ± 0.4837
800
750
700
650
600
550

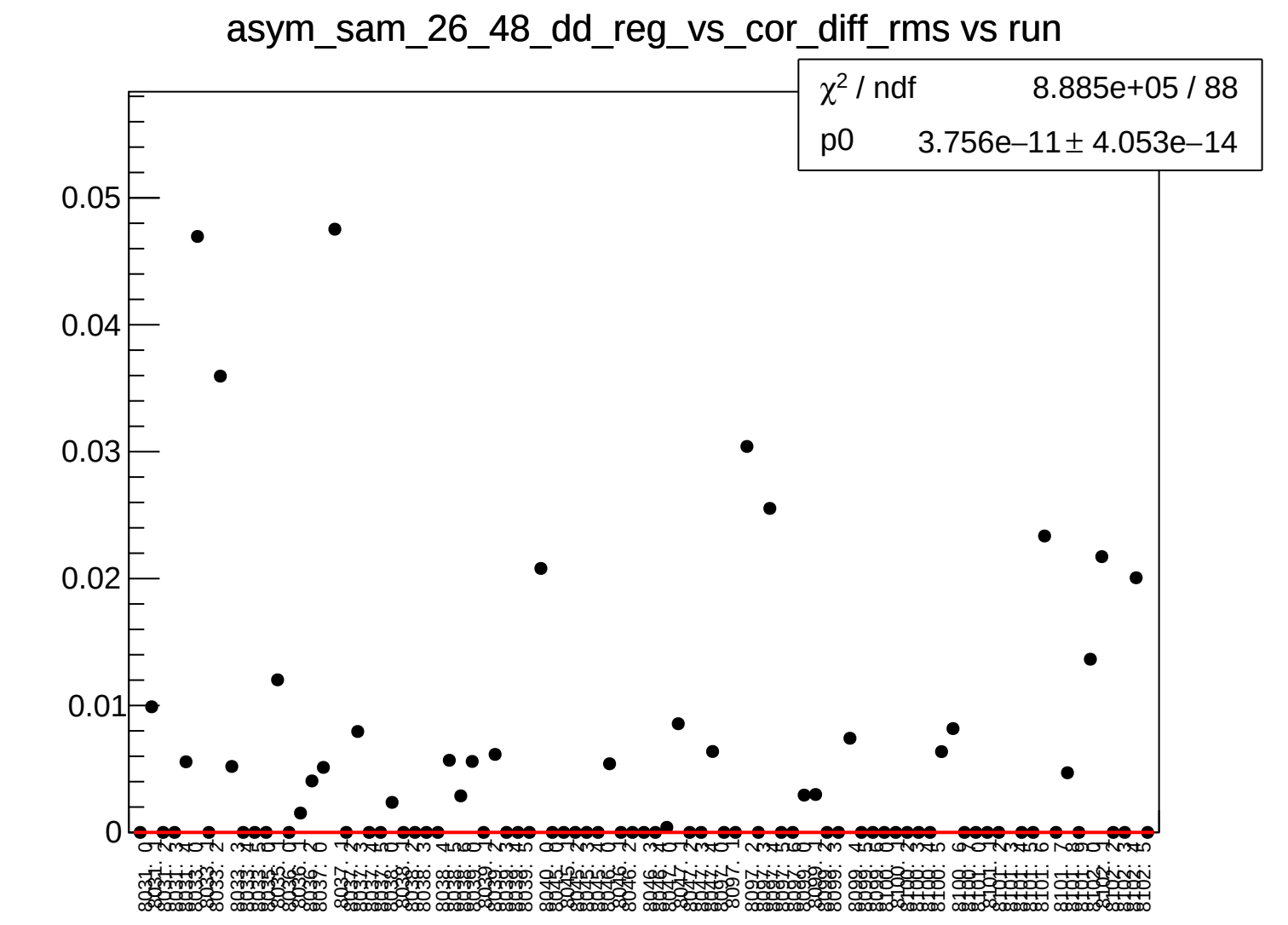

asym_sam_26_48_dd_mean vs run
χ² / ndf 57.7 / 88
p0 −548.6 ± 678.5
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 89
Mean 175.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

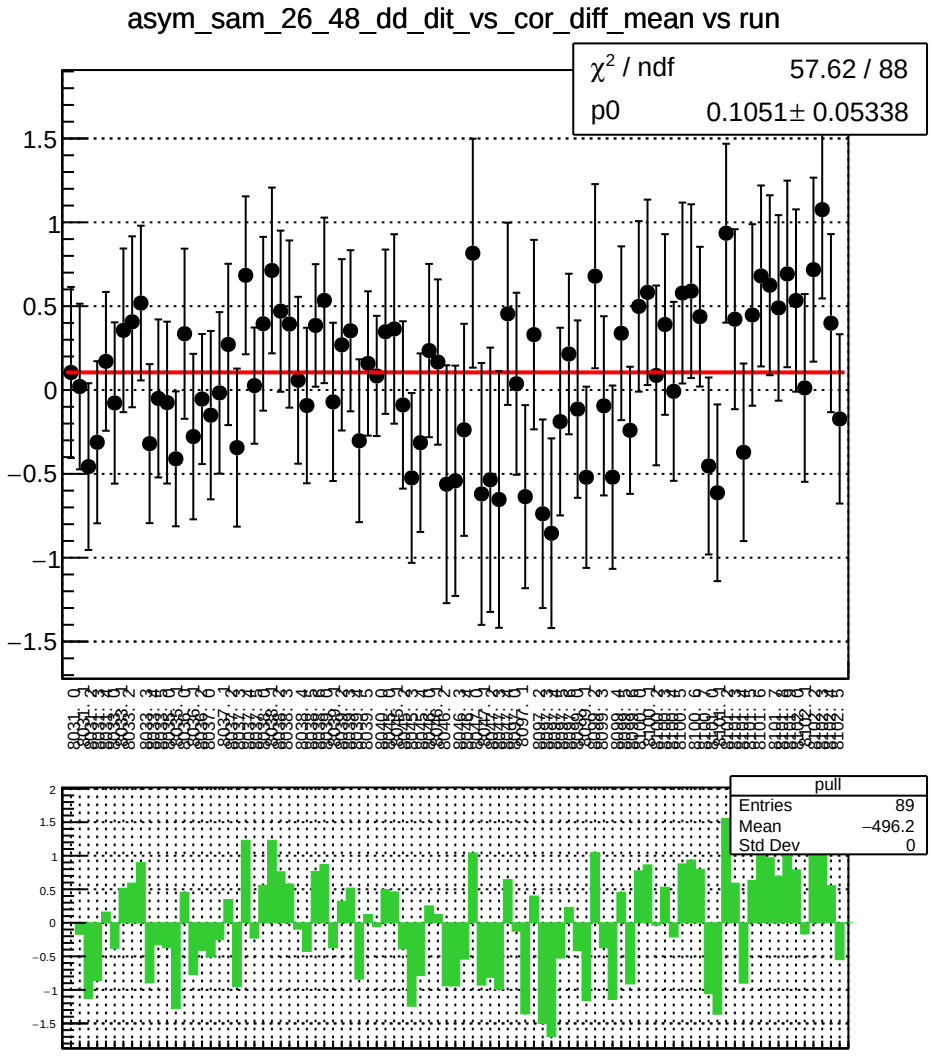

pull1D
Entries 89
Mean 0.009741
Std Dev 0.8051
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

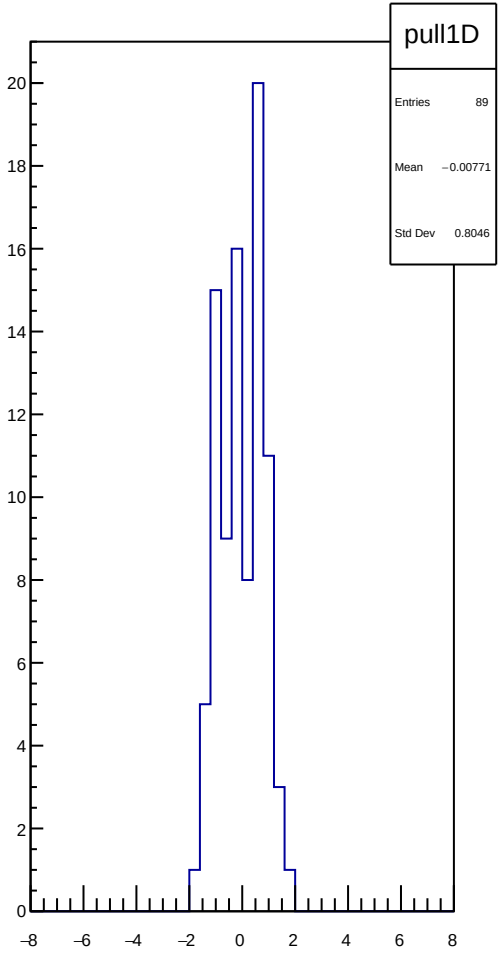

asym_sam_26_48_dd_rms vs run
χ² / ndf 1.599e+04 / 88
p0 631.3 ± 0.4798
850
800
750
700
650
600
550

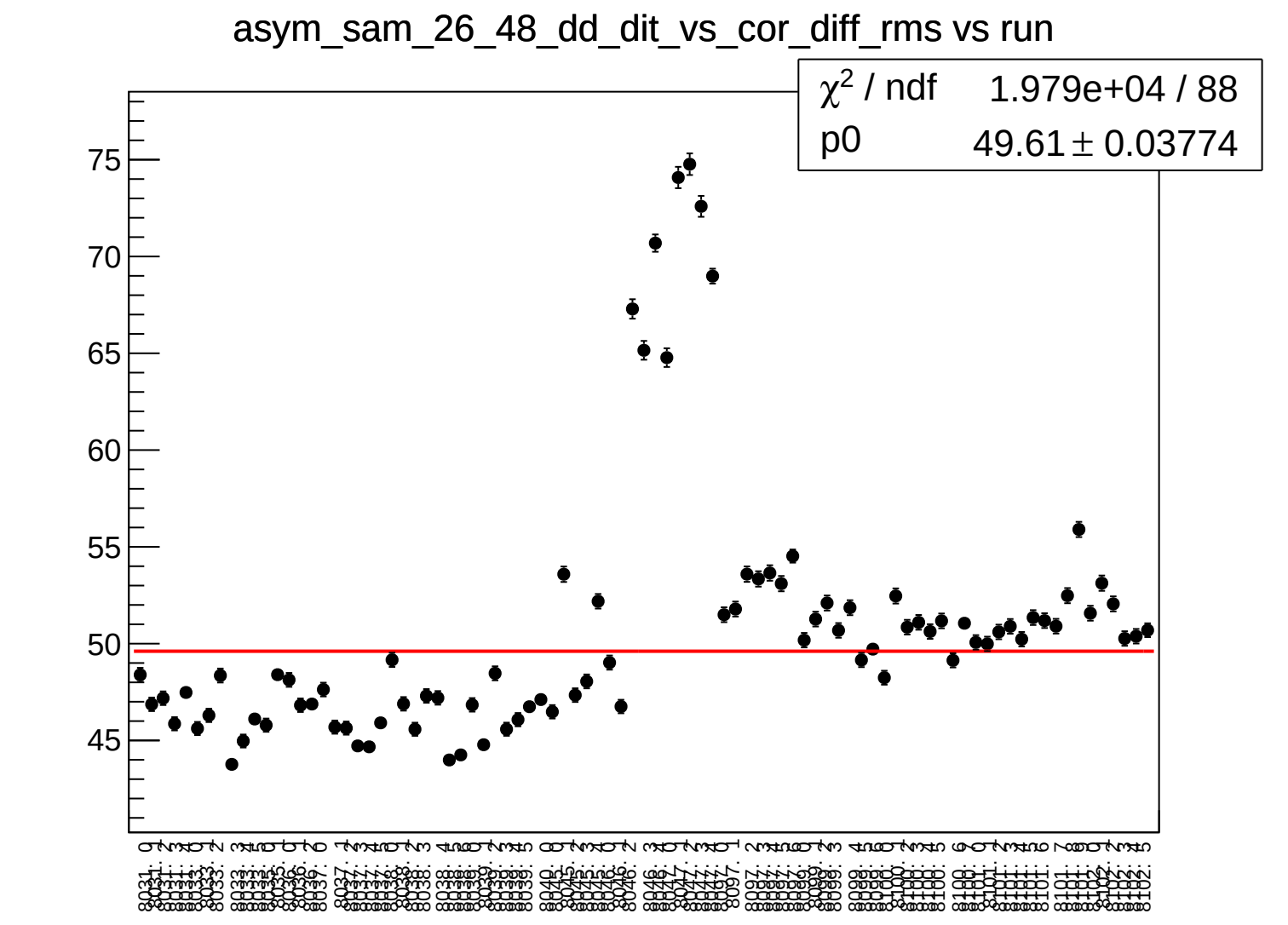

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 107.7 / 88
p0 2.319e−14 ± 5.732e−14
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 89
Mean −3104
Std Dev 0
2
1
0
−1
−2
−3

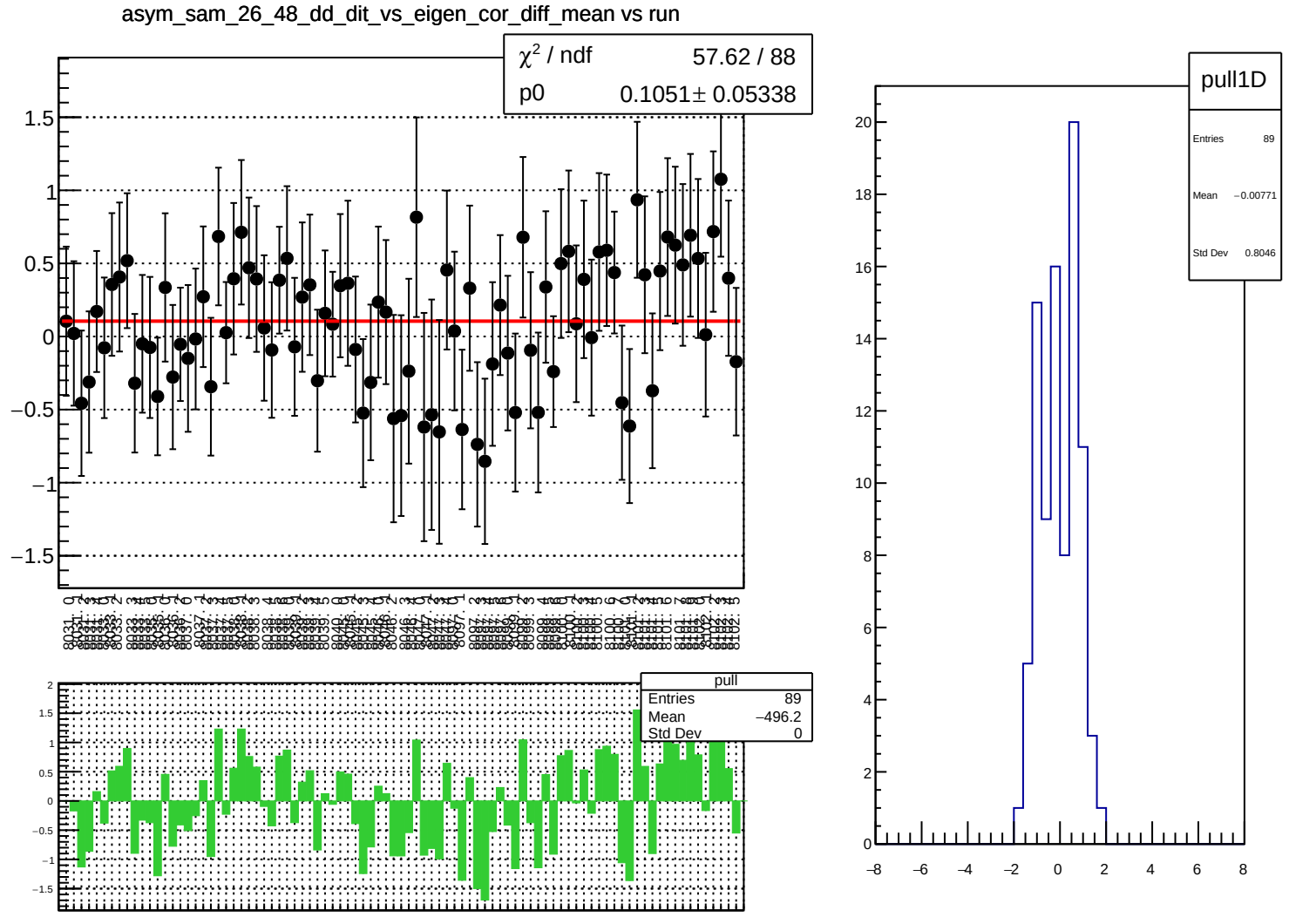

pull1D
Entries 89
Mean 0.0005914
Std Dev 1.1
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

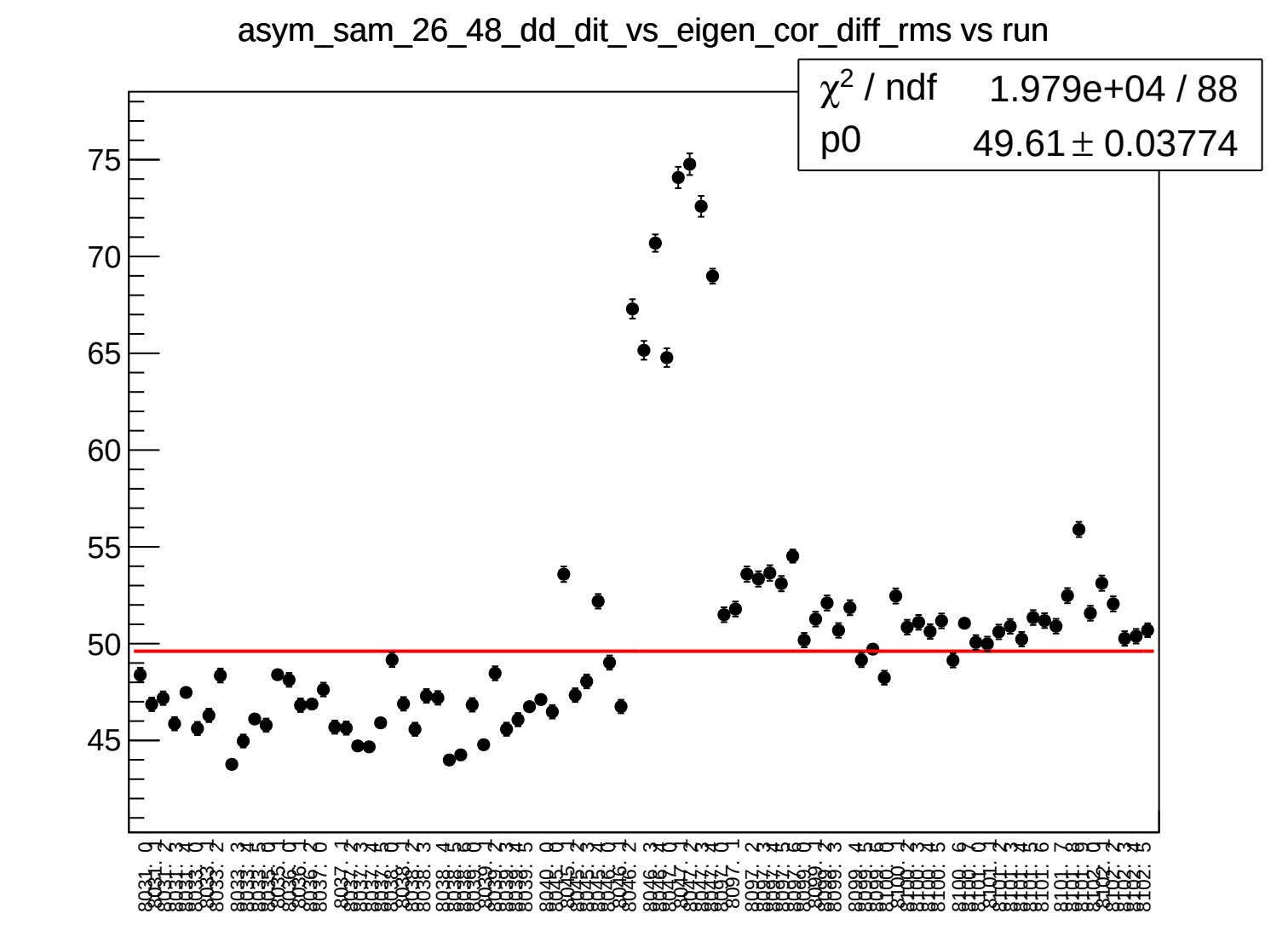

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.885e+05 / 88
p0 3.756e−11 ± 4.053e−14
0.05
0.04
0.03
0.02
0.01
0

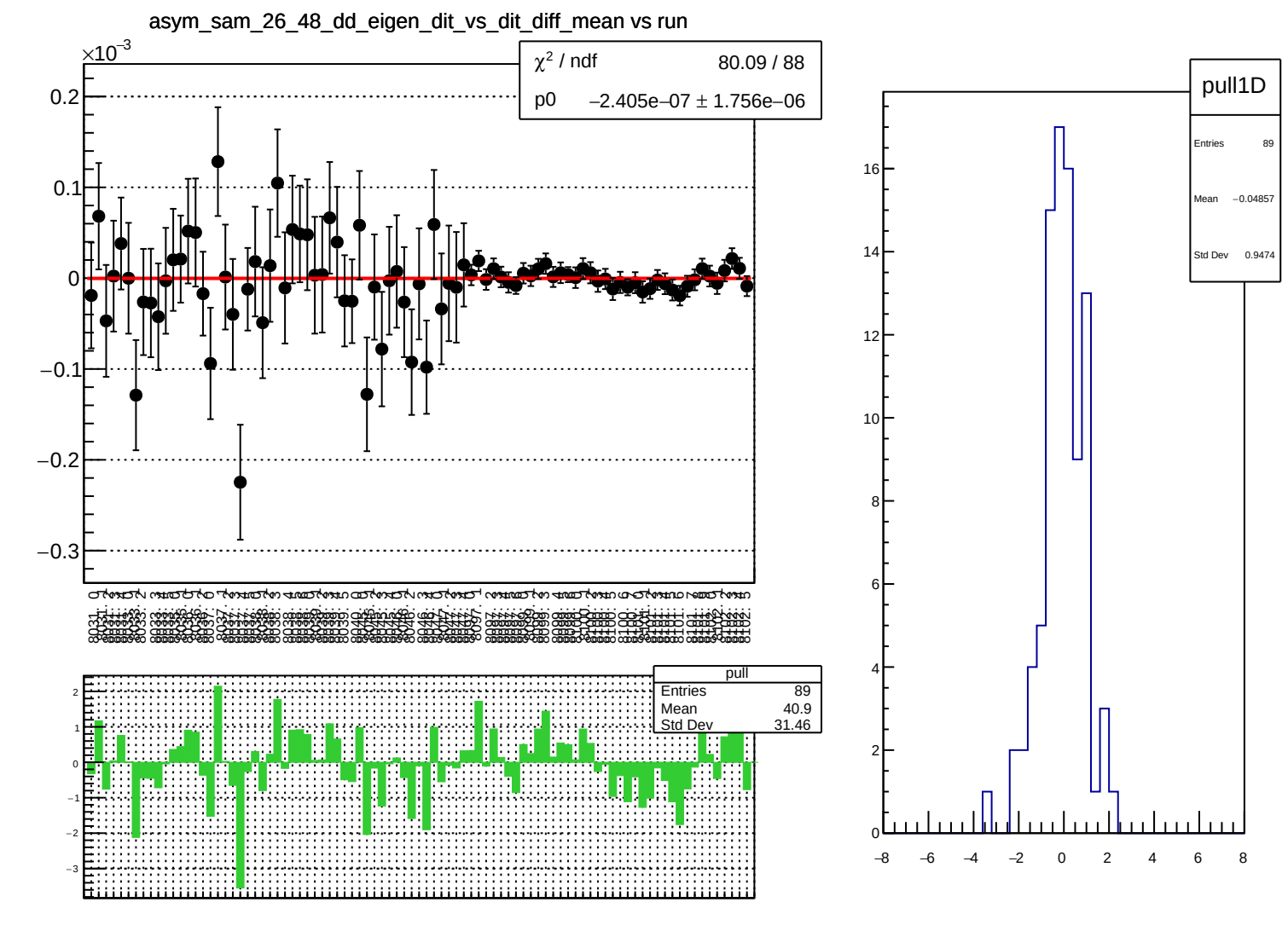

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 57.62 / 88
p0 0.1051± 0.05338
pull
Entries 89
Mean −496.2
Std Dev 0

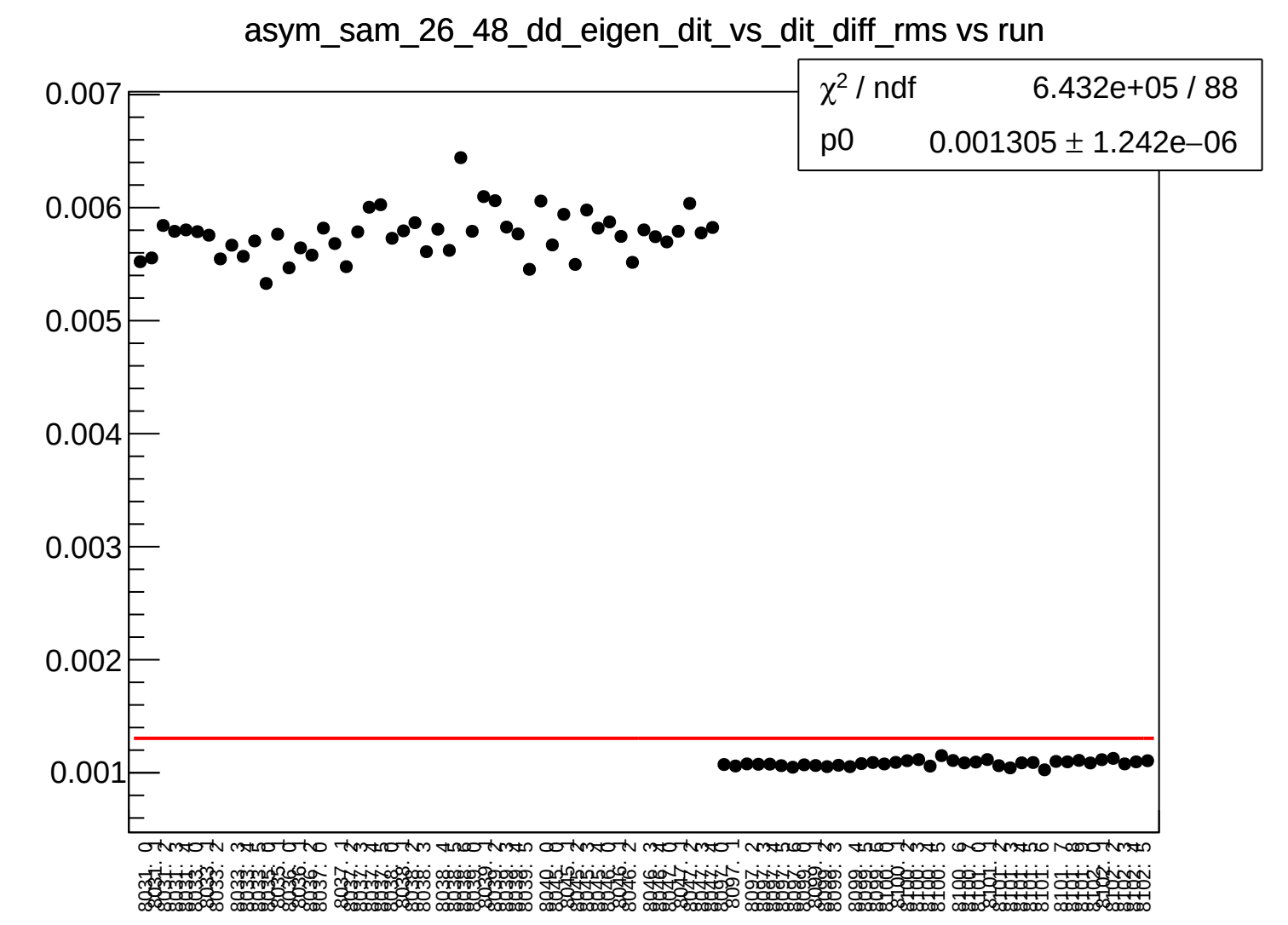

pull1D
Entries 89
Mean −0.00771
Std Dev 0.8046

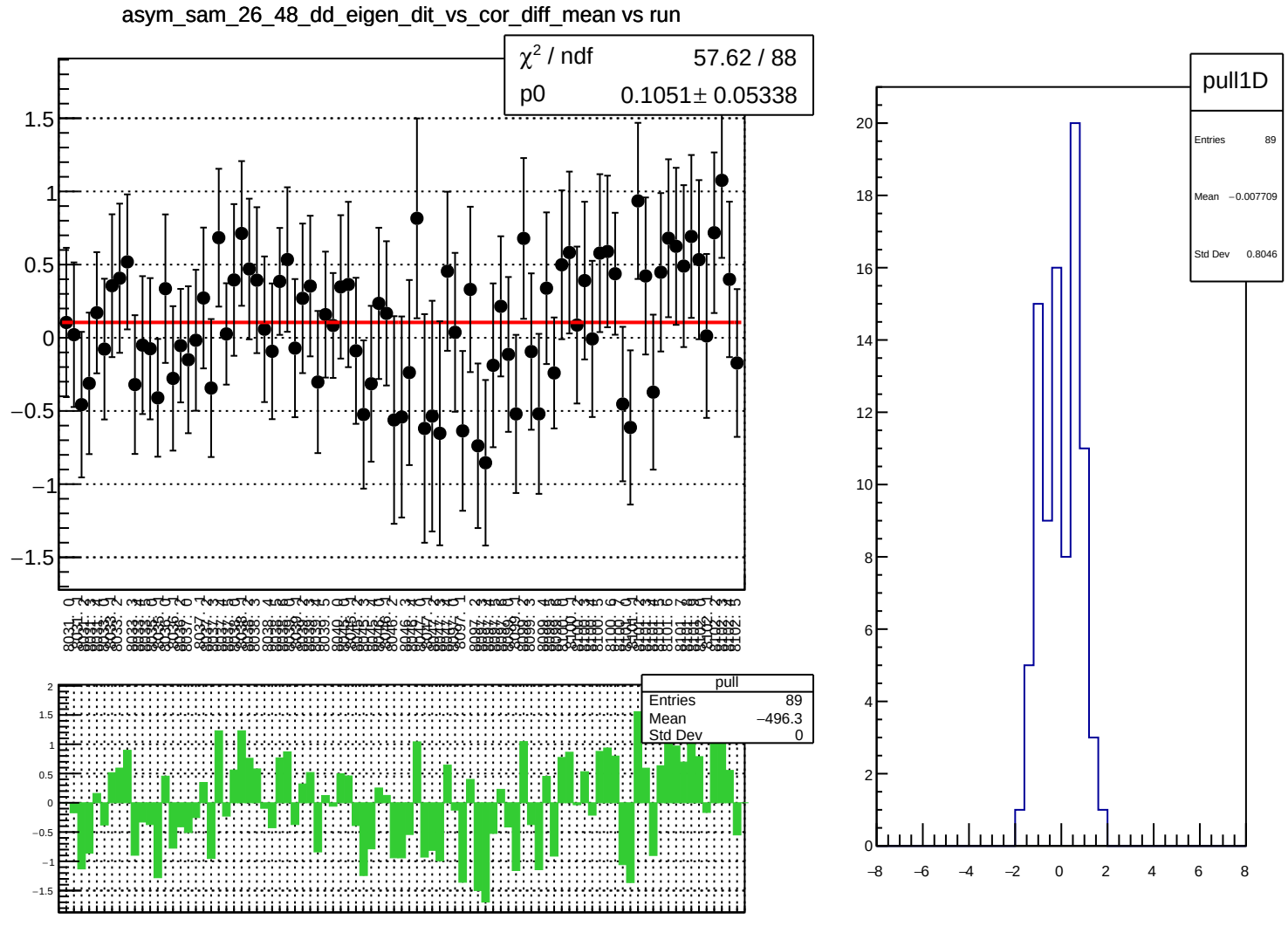

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.979e+04 / 88
p0 49.61 ± 0.03774
75
70
65
60
55
50
45

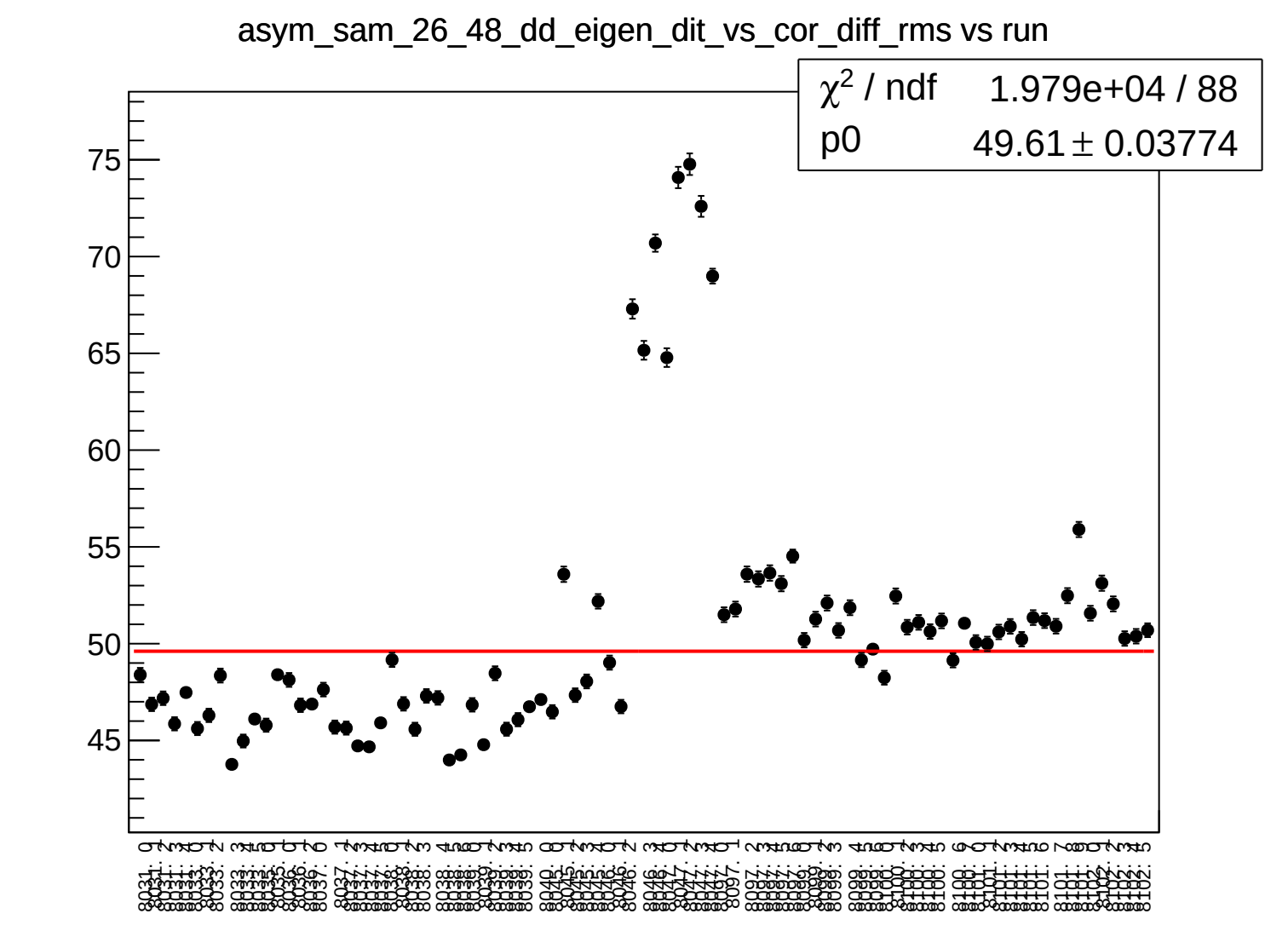

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 57.62 / 88
p0 0.1051± 0.05338
pull
Entries 89
Mean −496.2
Std Dev 0
pull1D
Entries 89
Mean −0.00771
Std Dev 0.8046

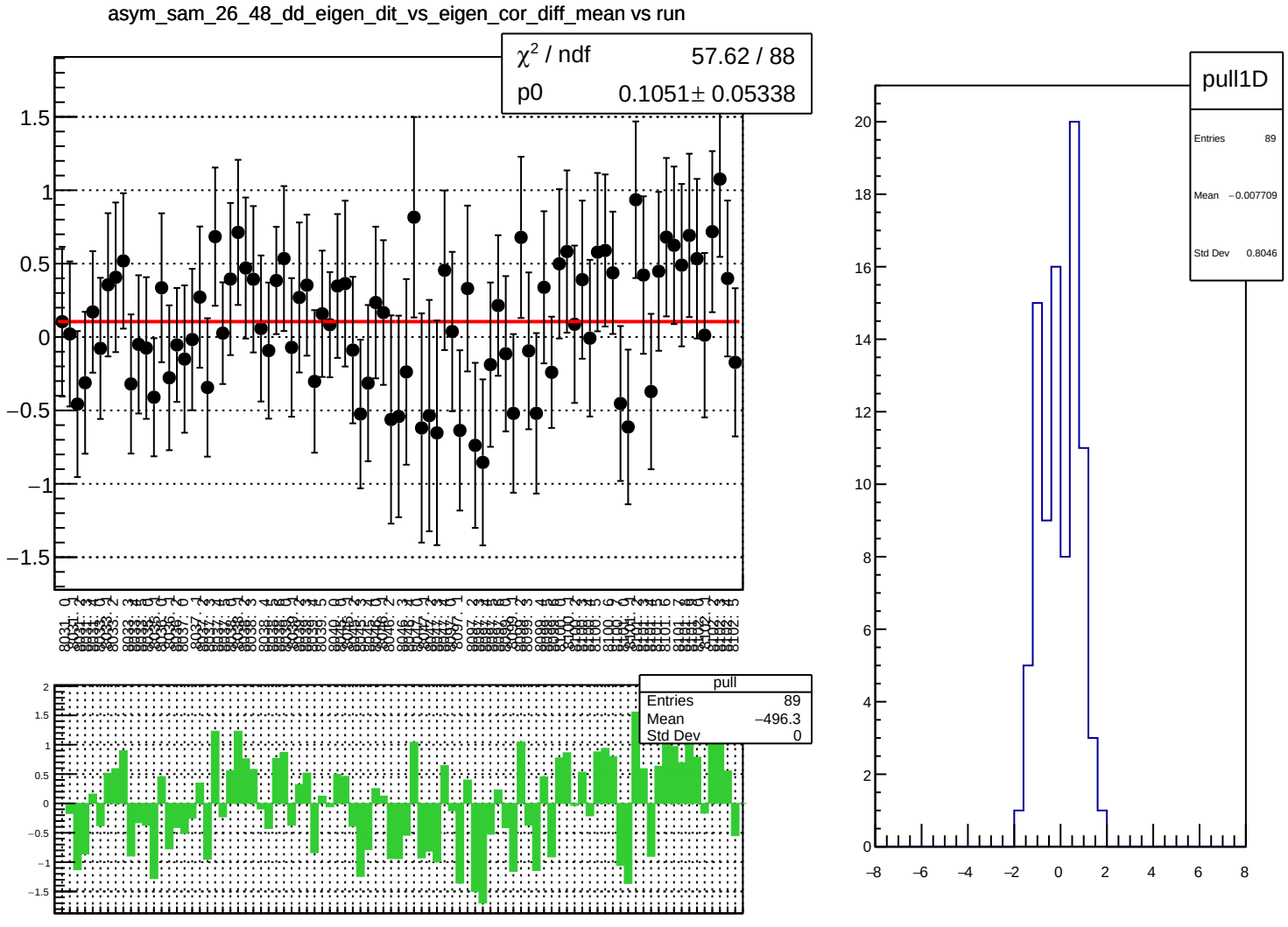

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 1.979e+04 / 88
p0 49.61 ± 0.03774
75
70
65
60
55
50
45

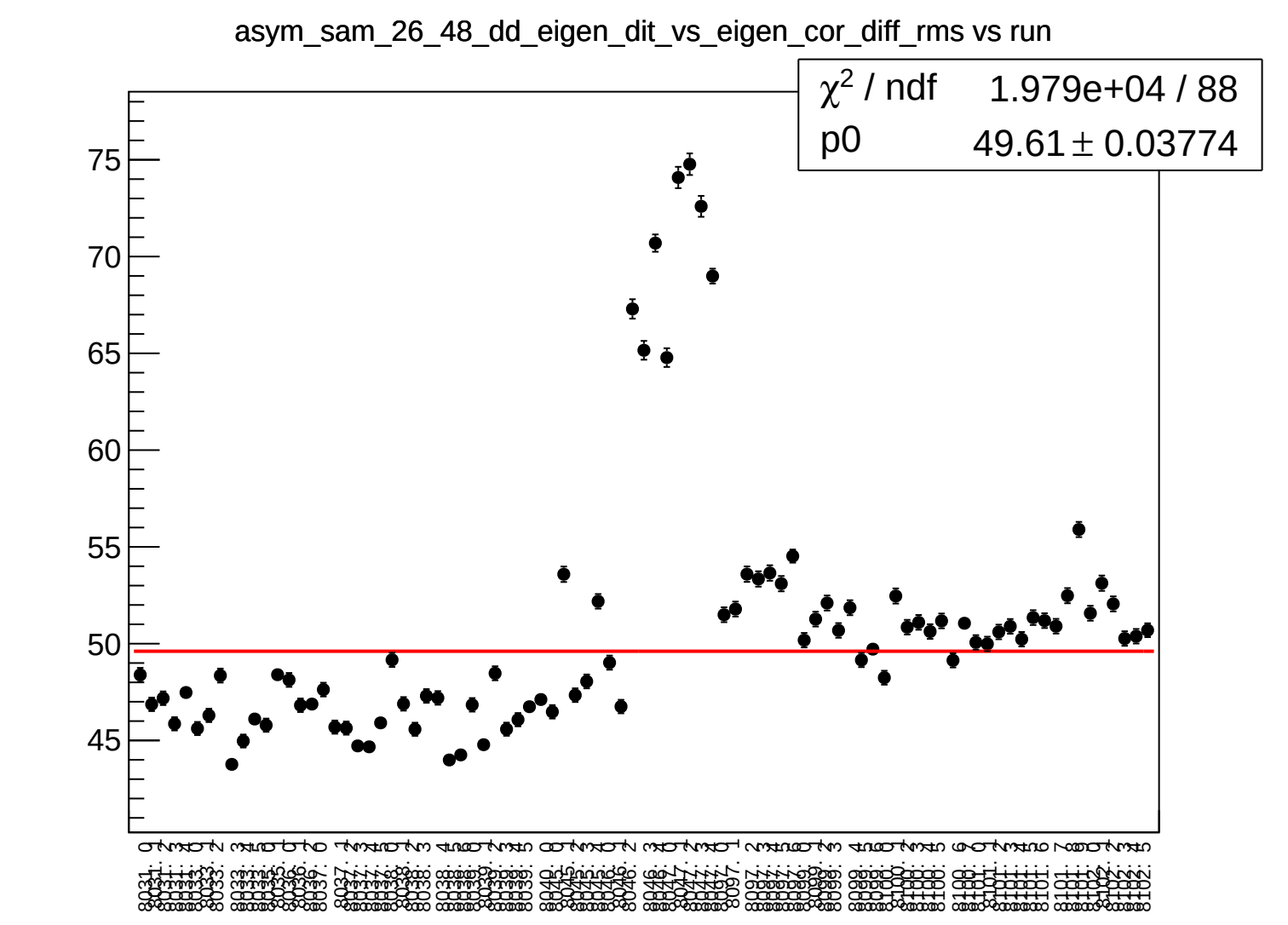

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^-3
χ² / ndf 80.09 / 88
p0 −2.405e−07 ± 1.756e−06
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 89
Mean 40.9
Std Dev 31.46
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.04857
Std Dev 0.9474
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

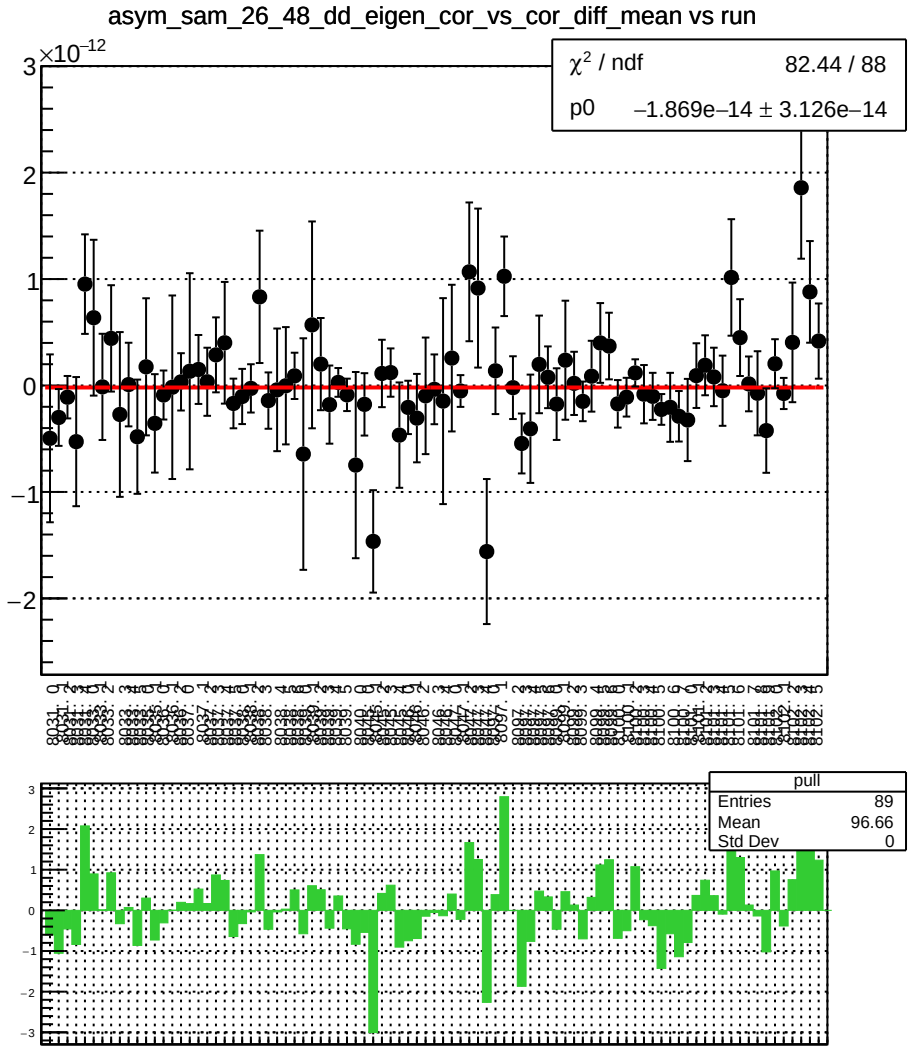

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.432e+05 / 88
p0 0.001305 ± 1.242e−06
0.007
0.006
0.005
0.004
0.003
0.002
0.001

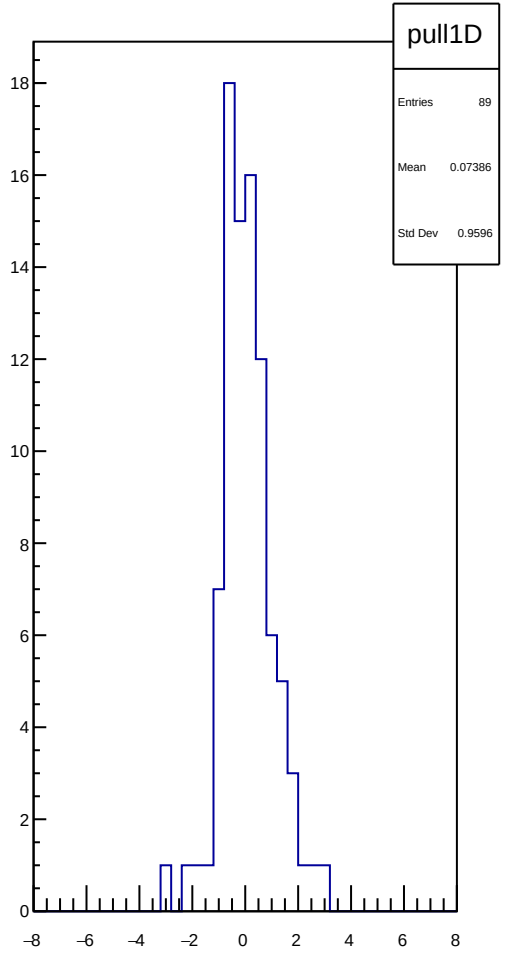

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 57.62 / 88
p0 0.1051± 0.05338
pull
Entries 89
Mean −496.3
Std Dev 0
pull1D
Entries 89
Mean −0.007709
Std Dev 0.8046

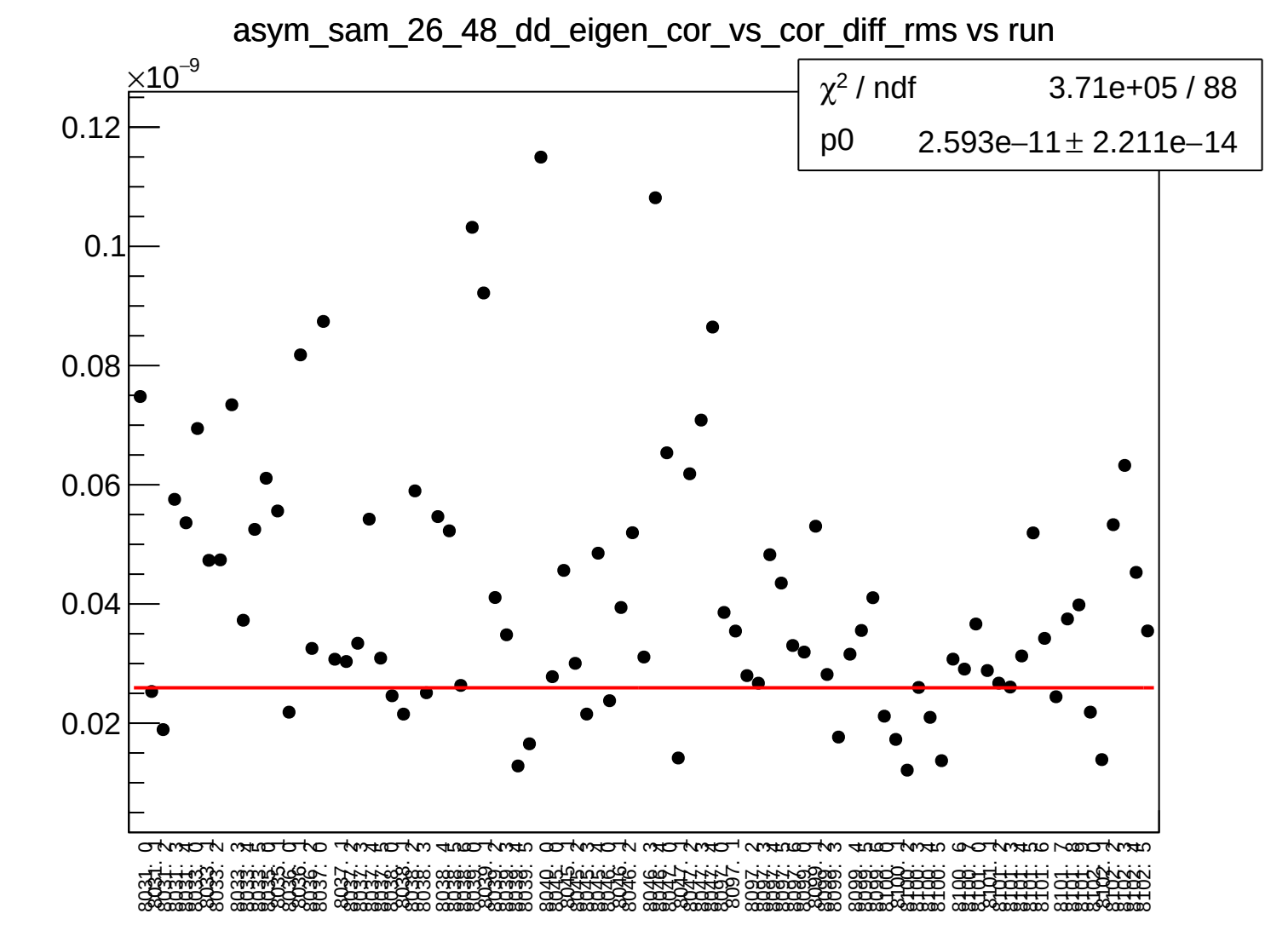

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 1.979e+04 / 88
p0 49.61 ± 0.03774
75
70
65
60
55
50
45

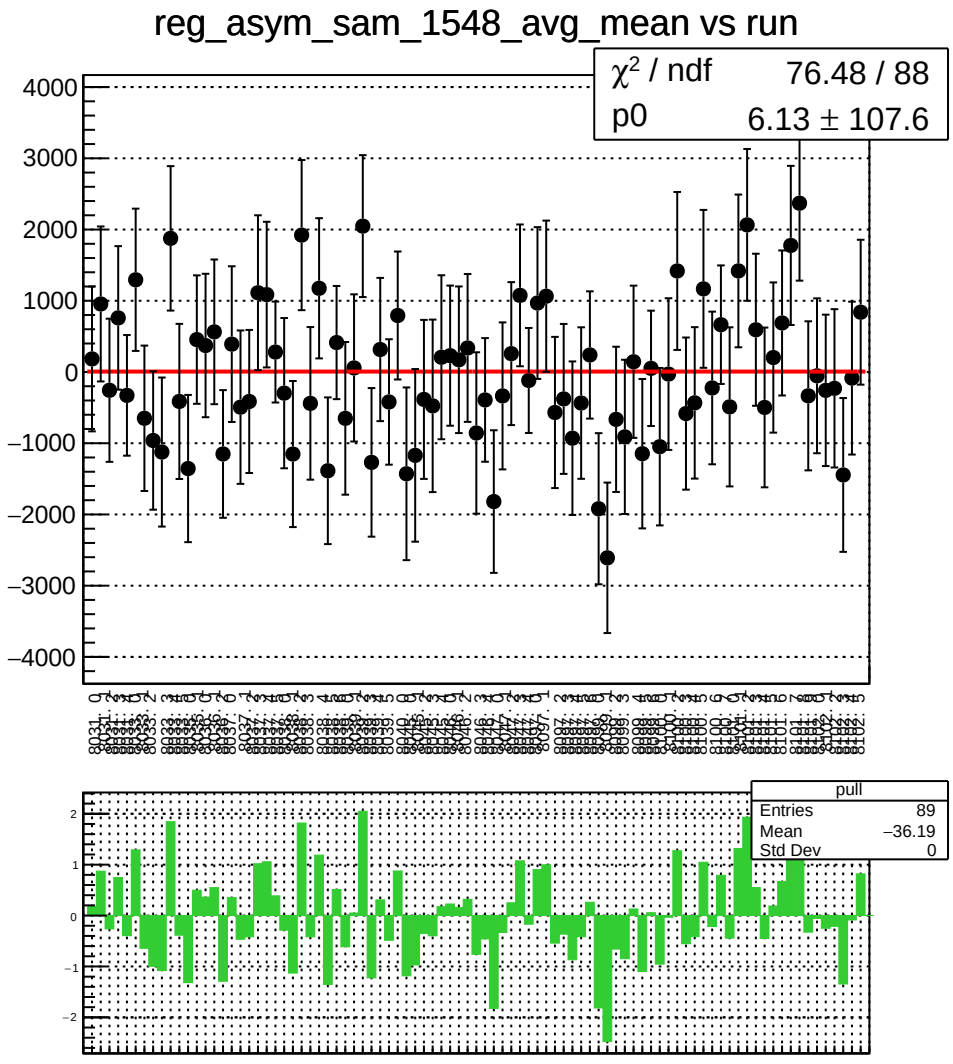

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 57.62 / 88
p0 0.1051± 0.05338
pull
Entries 89
Mean −496.3
Std Dev 0
pull1D
Entries 89
Mean −0.007709
Std Dev 0.8046

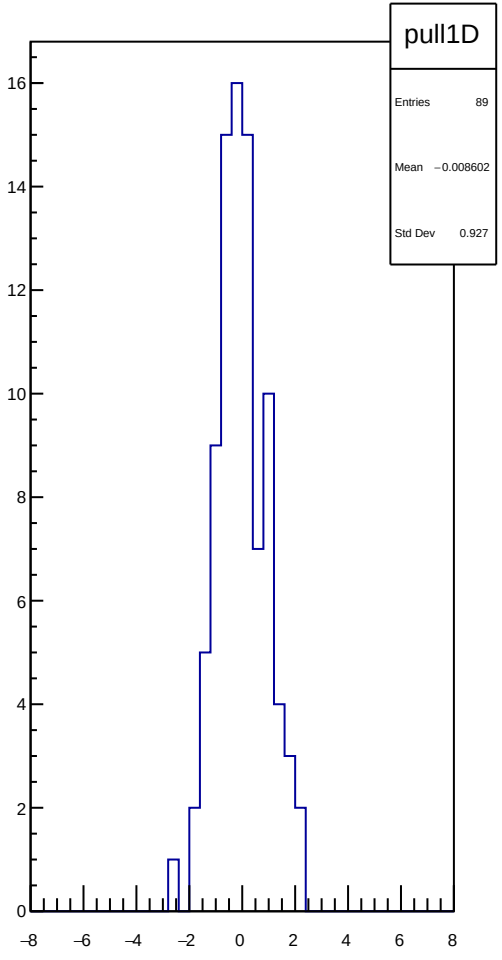

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 1.979e+04 / 88
p0 49.61 ± 0.03774
75
70
65
60
55
50
45

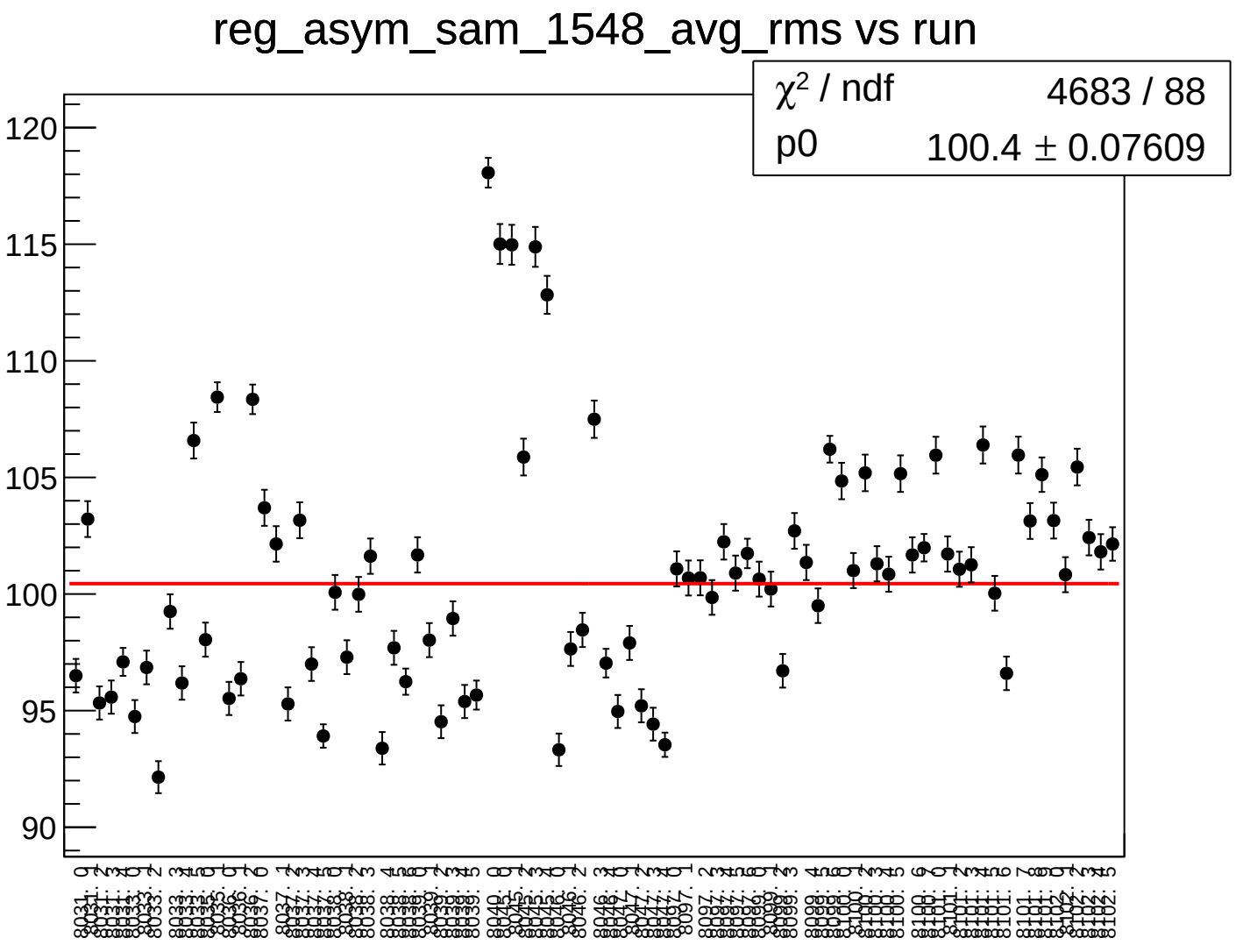

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.44 / 88
p0 −1.869e−14 ± 3.126e−14
pull
Entries 89
Mean 96.66
Std Dev 0

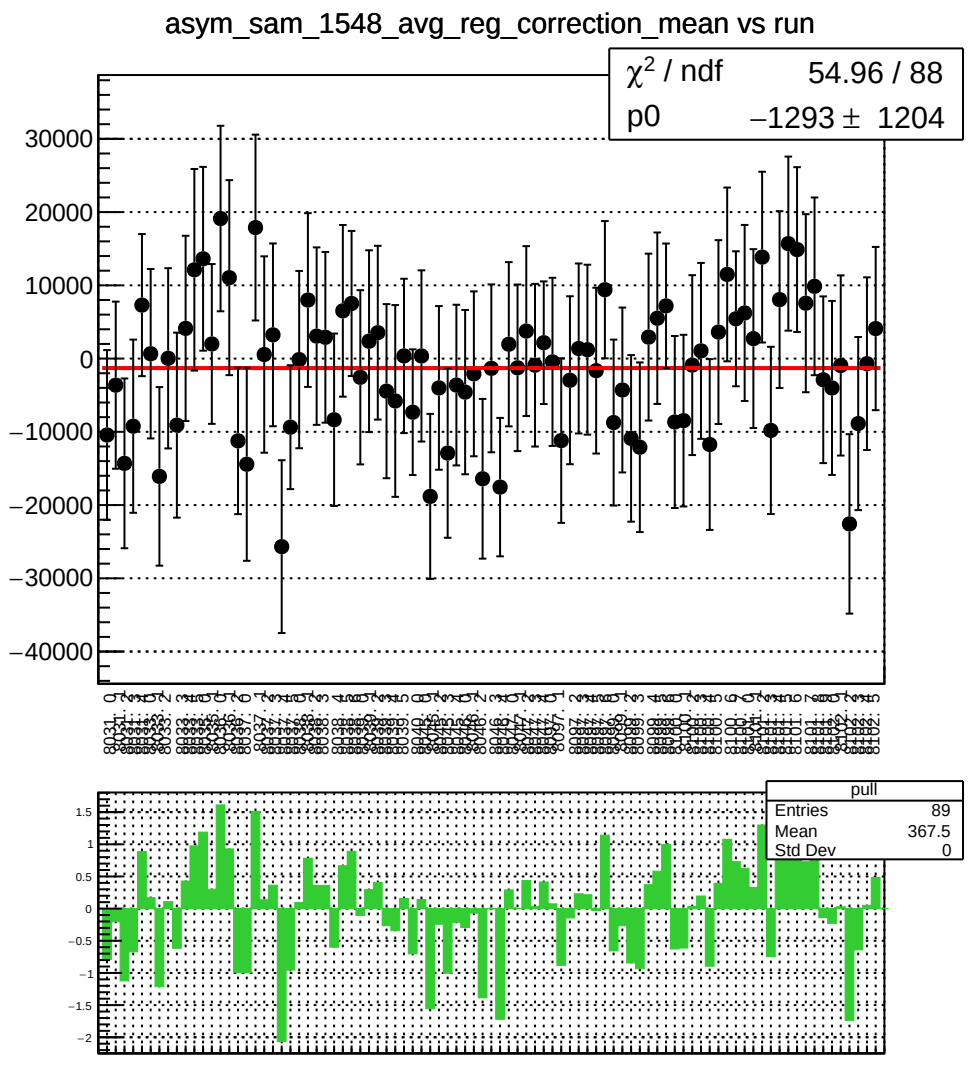

pull1D
Entries 89
Mean 0.07386
Std Dev 0.9596

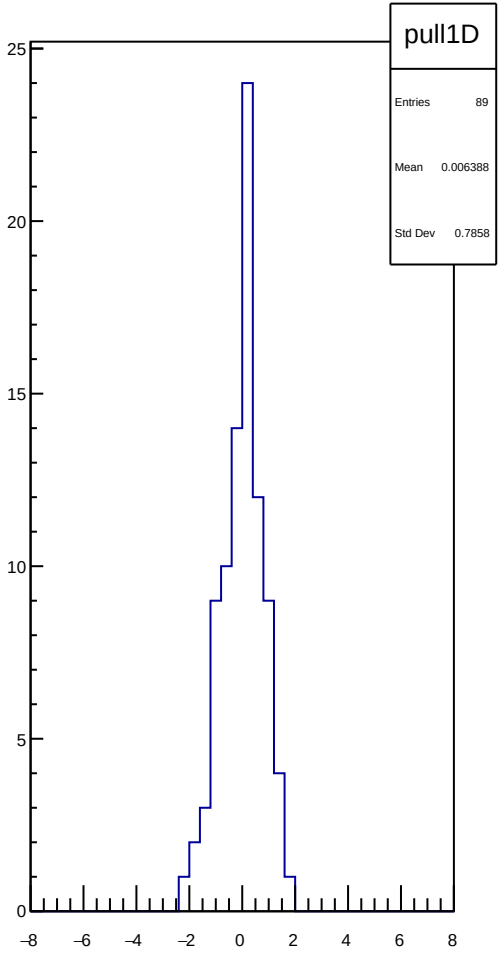

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.71e+05 / 88
p0 2.593e−11 ± 2.211e−14
0.12
0.1
0.08
0.06
0.04
0.02

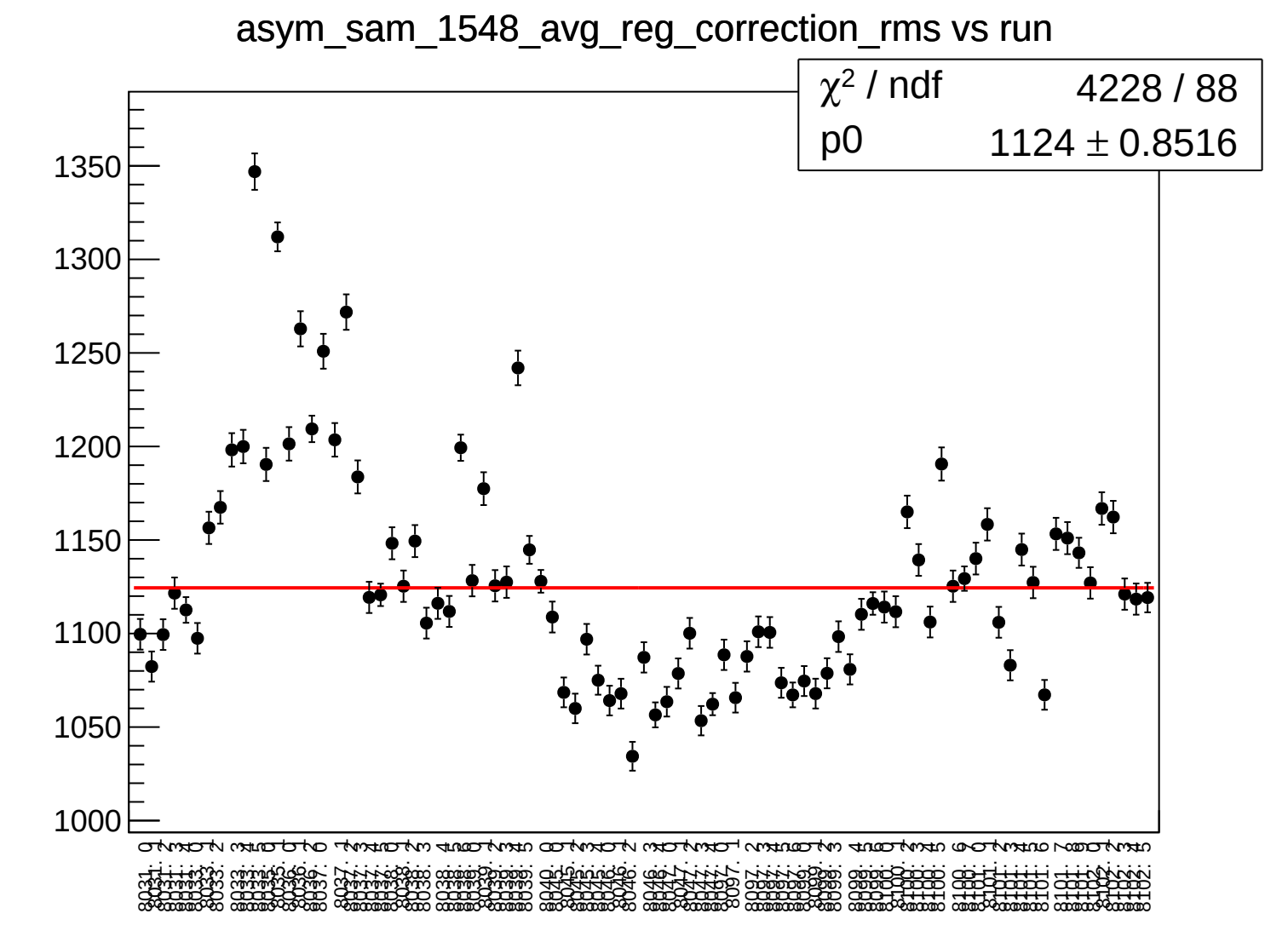

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 76.48 / 88
p0 6.13 ± 107.6
pull
Entries 89
Mean −36.19
Std Dev 0

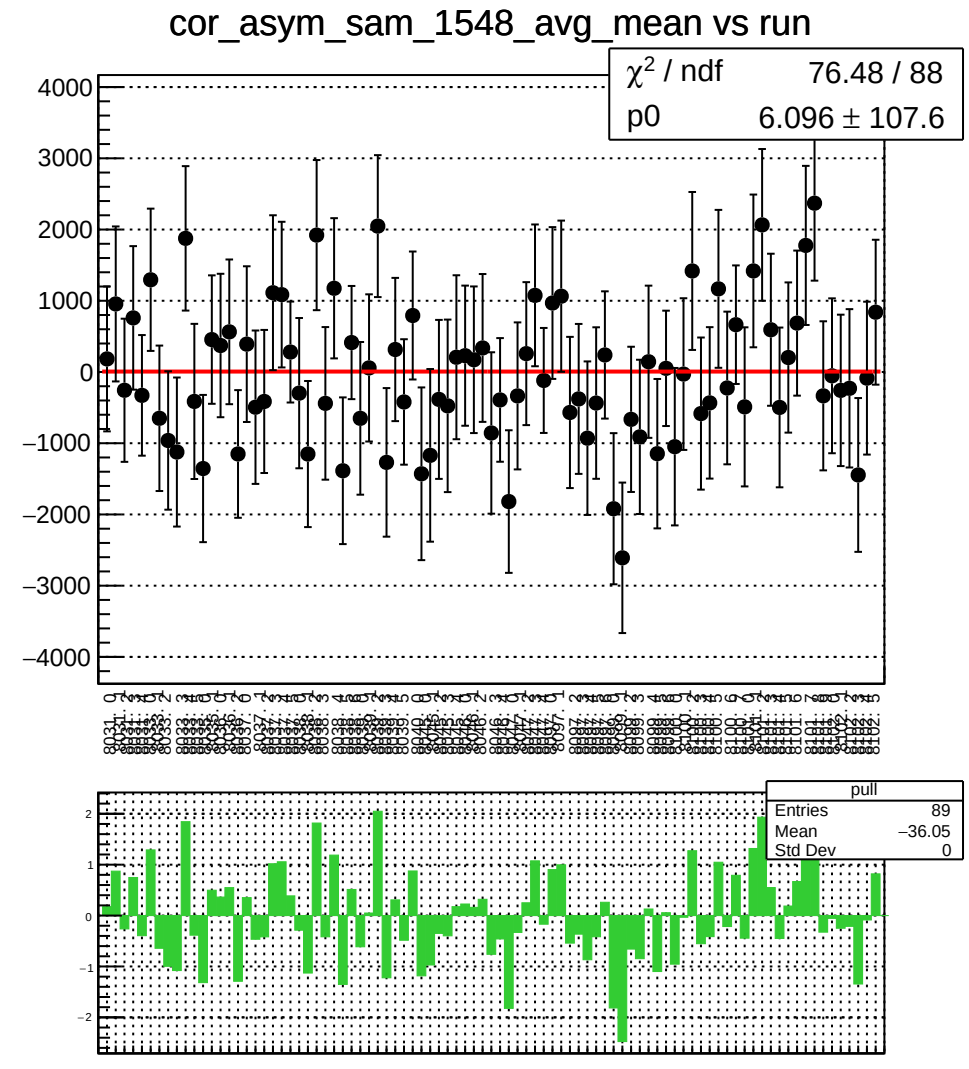

pull1D
Entries 89
Mean −0.008602
Std Dev 0.927

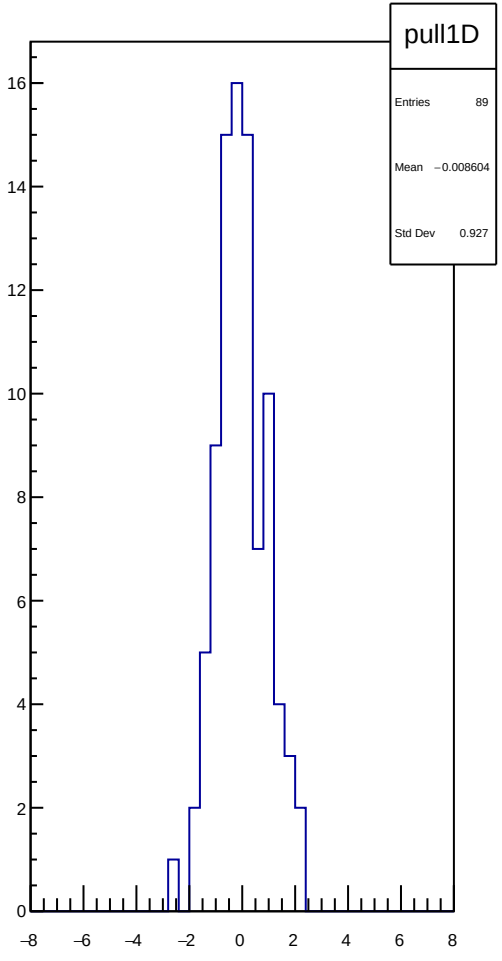

reg_asym_sam_1548_avg_rms vs run
χ² / ndf 4683 / 88
p0 100.4 ± 0.07609
120
115
110
105
100
95
90

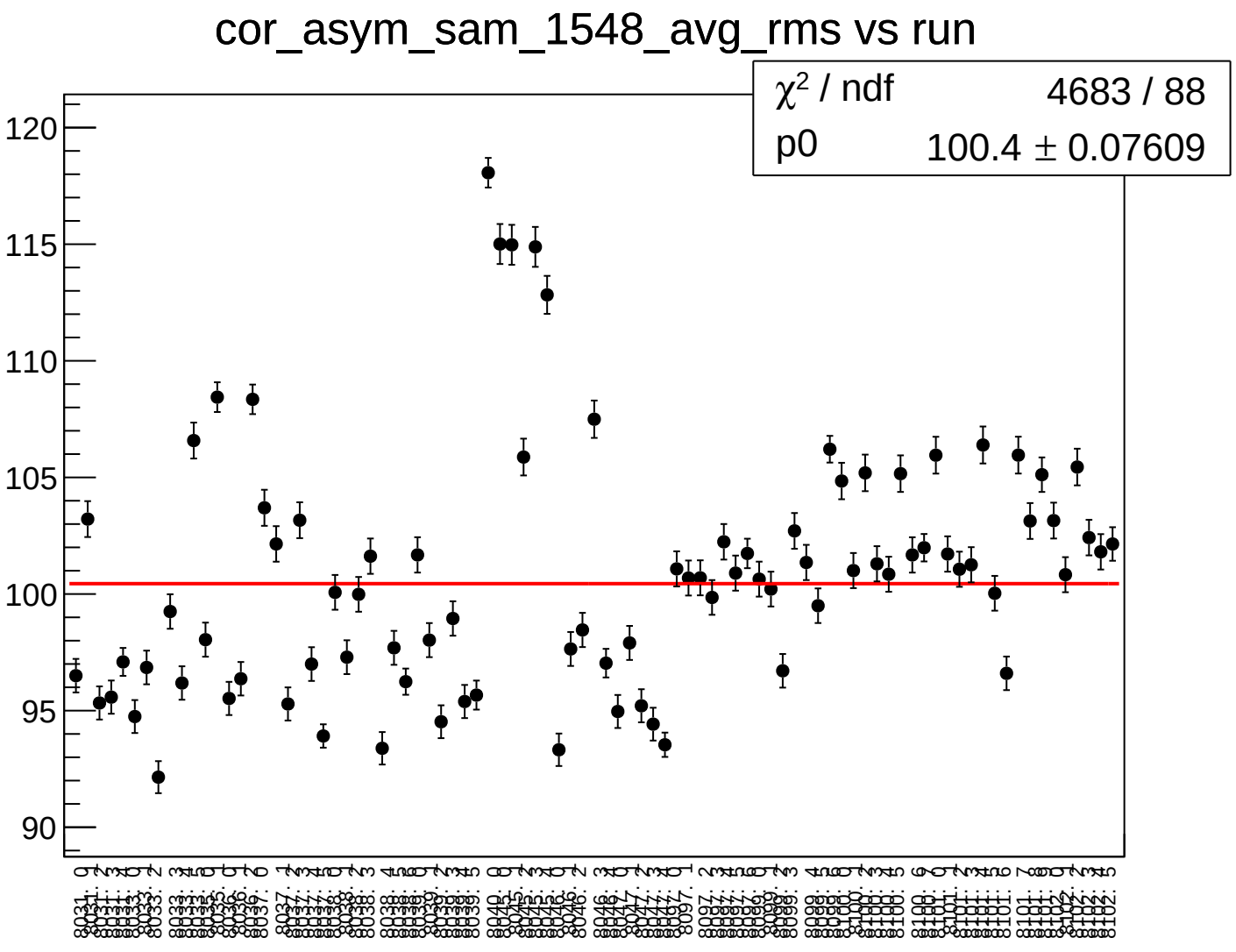

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 54.96 / 88
p0 −1293 ± 1204
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean 367.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

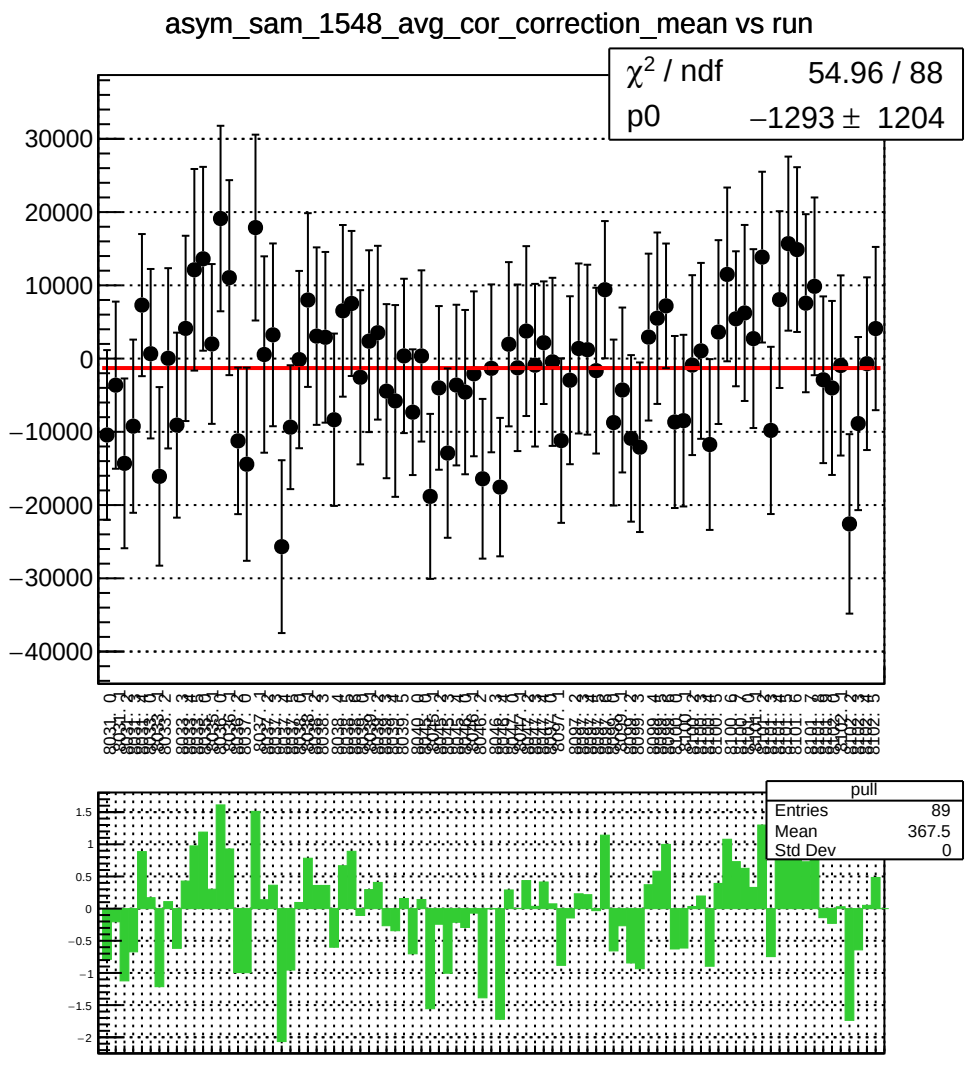

pull1D
Entries 89
Mean 0.006388
Std Dev 0.7858
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

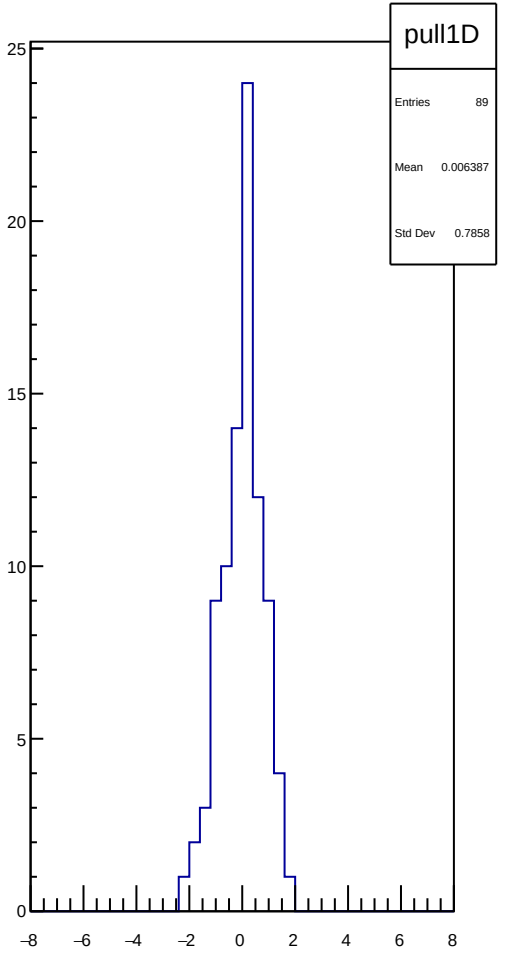

asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 4228 / 88
p0 1124 ± 0.8516
1350
1300
1250
1200
1150
1100
1050
1000

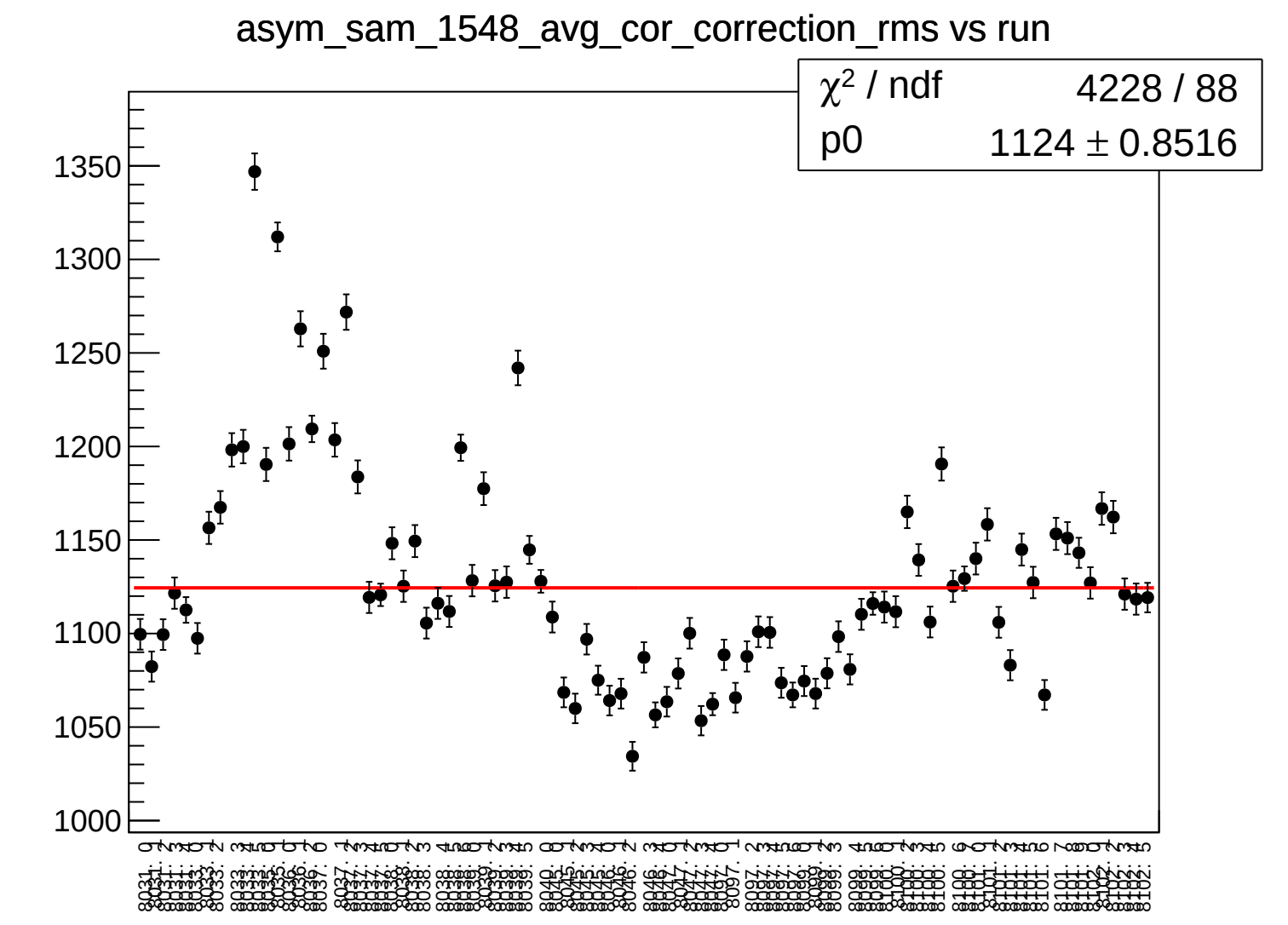

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 76.48 / 88
p0 6.096 ± 107.6
pull
Entries 89
Mean −36.05
Std Dev 0

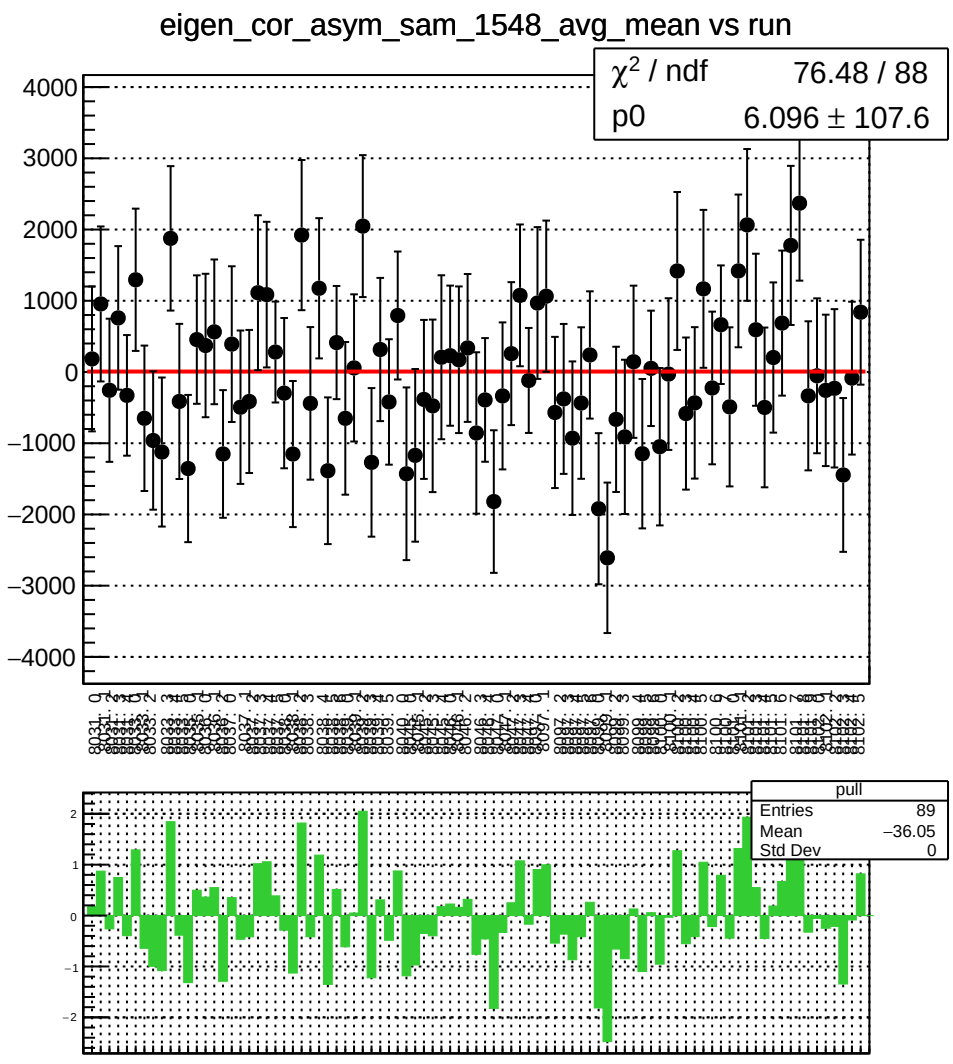

pull1D
Entries 89
Mean −0.008604
Std Dev 0.927

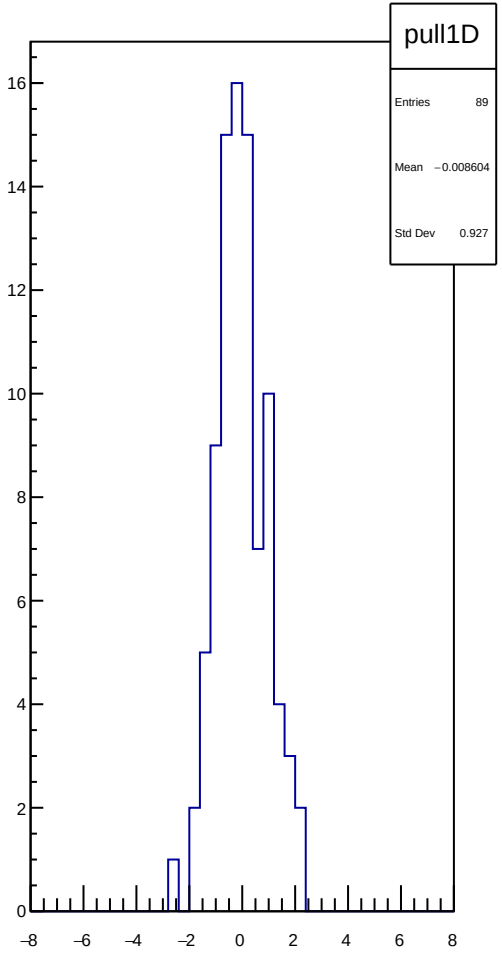

cor_asym_sam_1548_avg_rms vs run
χ² / ndf 4683 / 88
p0 100.4 ± 0.07609
120
115
110
105
100
95
90

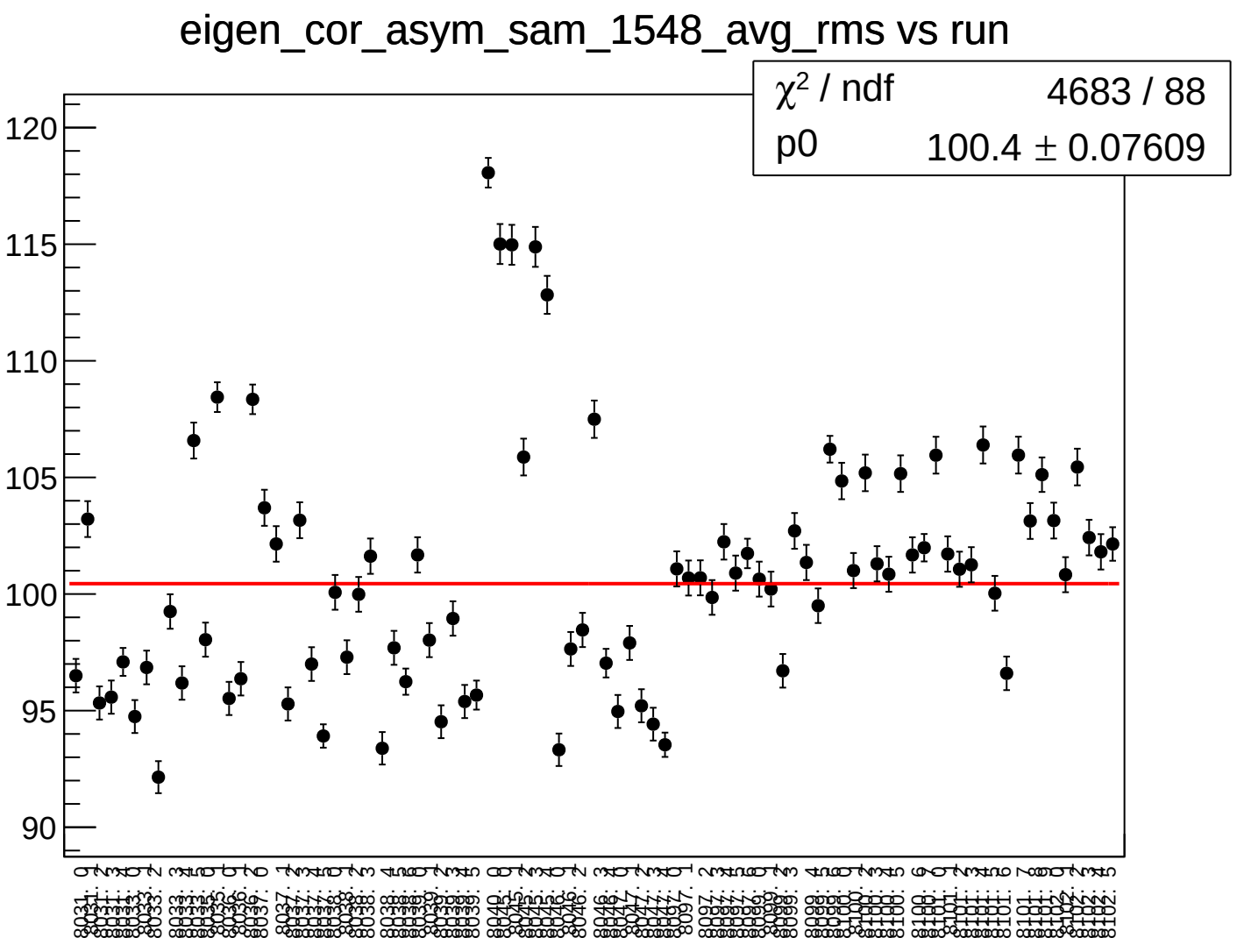

asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 54.96 / 88
p0 −1293 ± 1204
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean 367.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

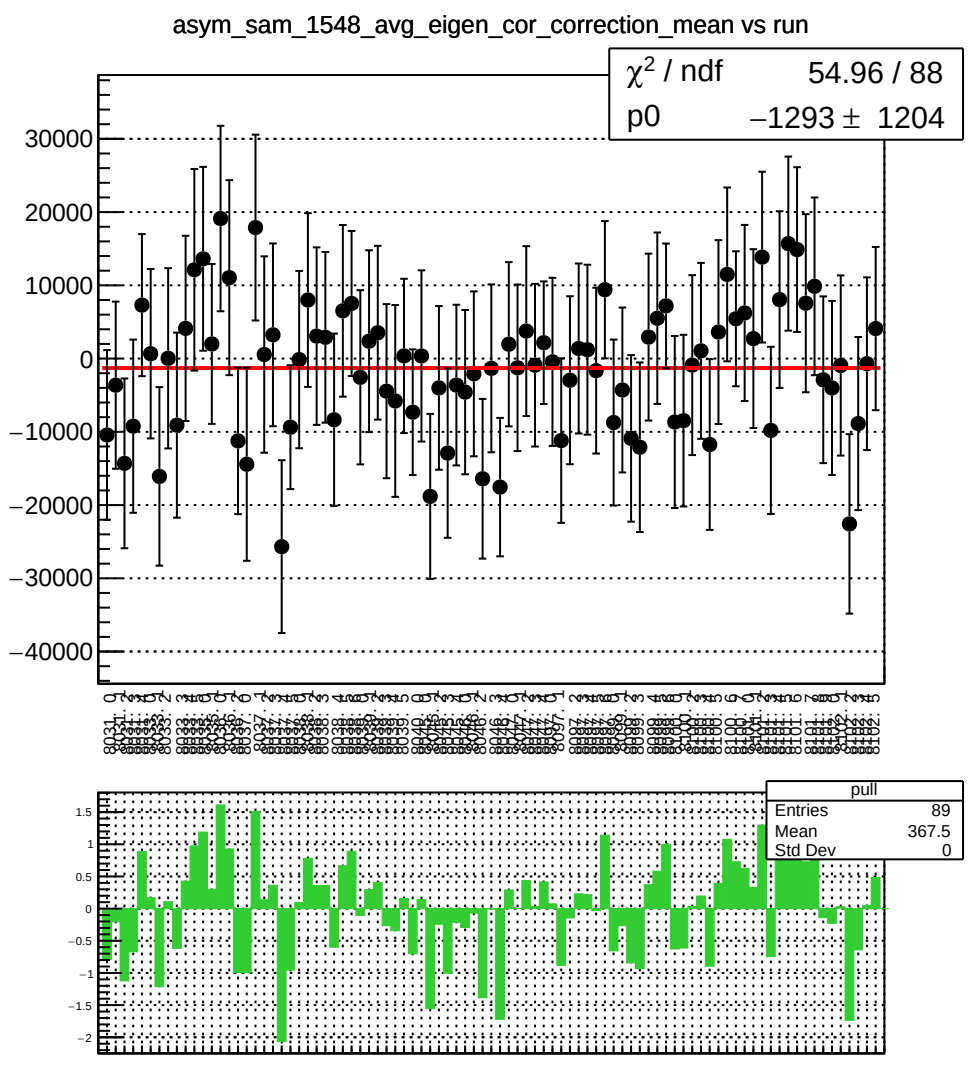

pull1D
Entries 89
Mean 0.006387
Std Dev 0.7858
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

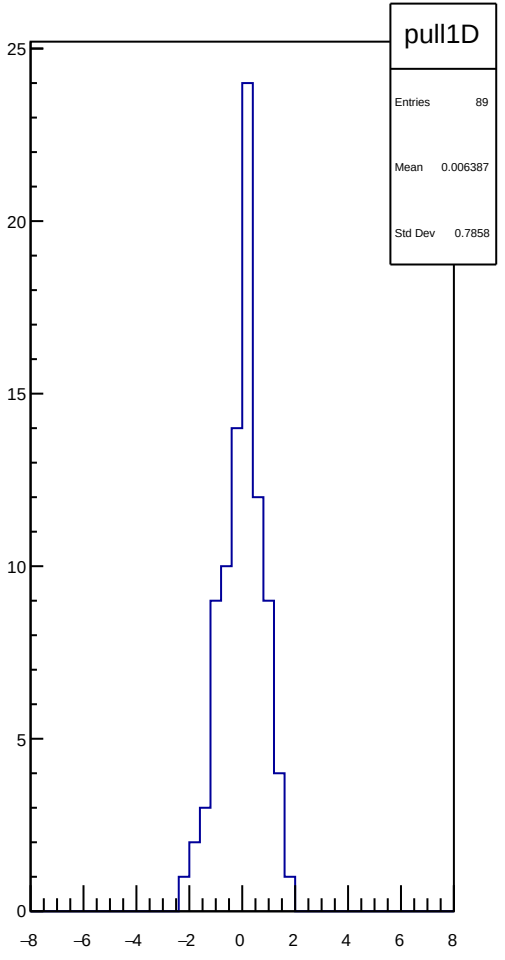

asym_sam_1548_avg_cor_correction_rms vs run
χ² / ndf 4228 / 88
p0 1124 ± 0.8516
1350
1300
1250
1200
1150
1100
1050
1000

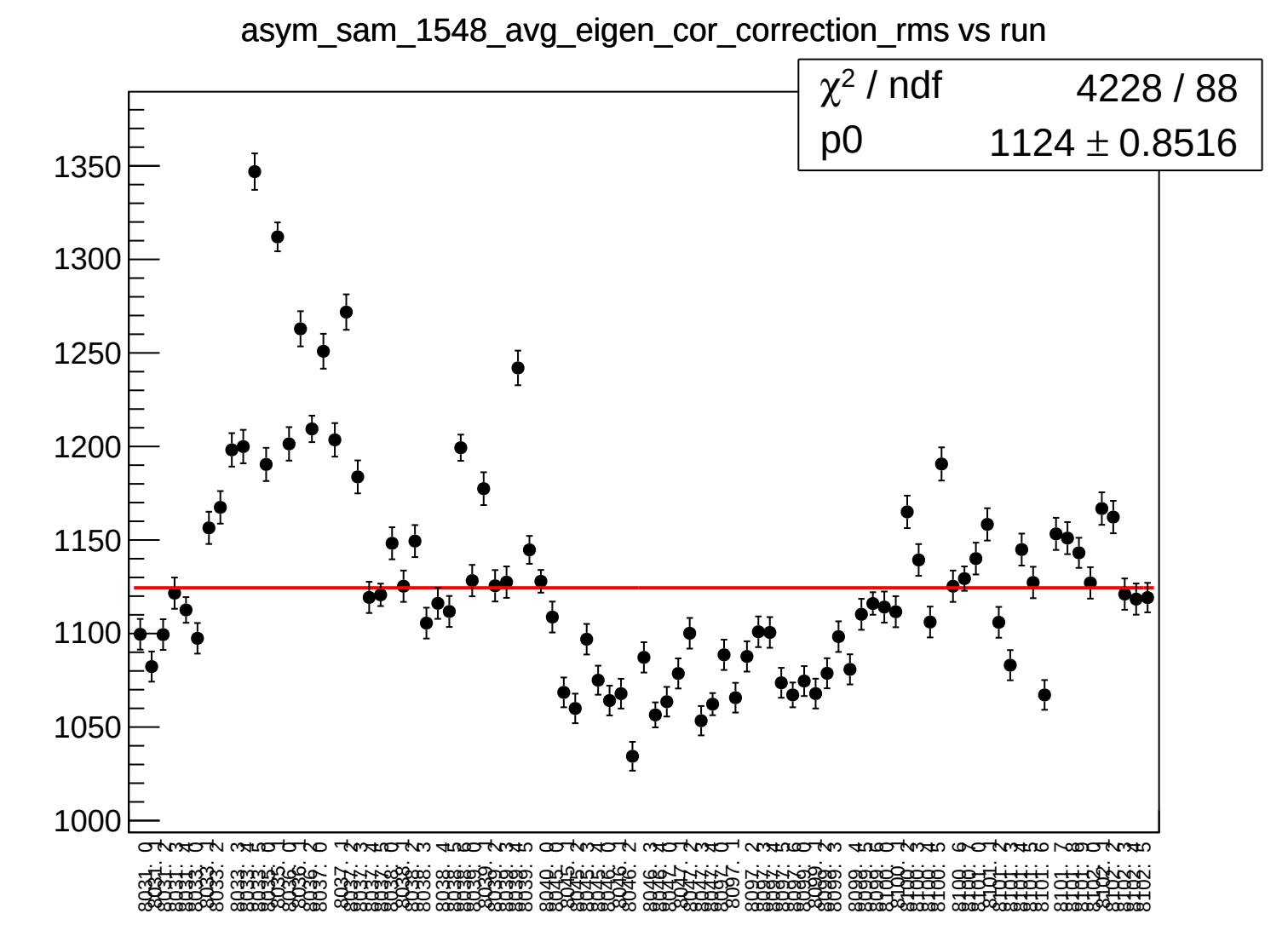

eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 76.48 / 88
p0 6.096 ± 107.6
pull
Entries 89
Mean −36.05
Std Dev 0

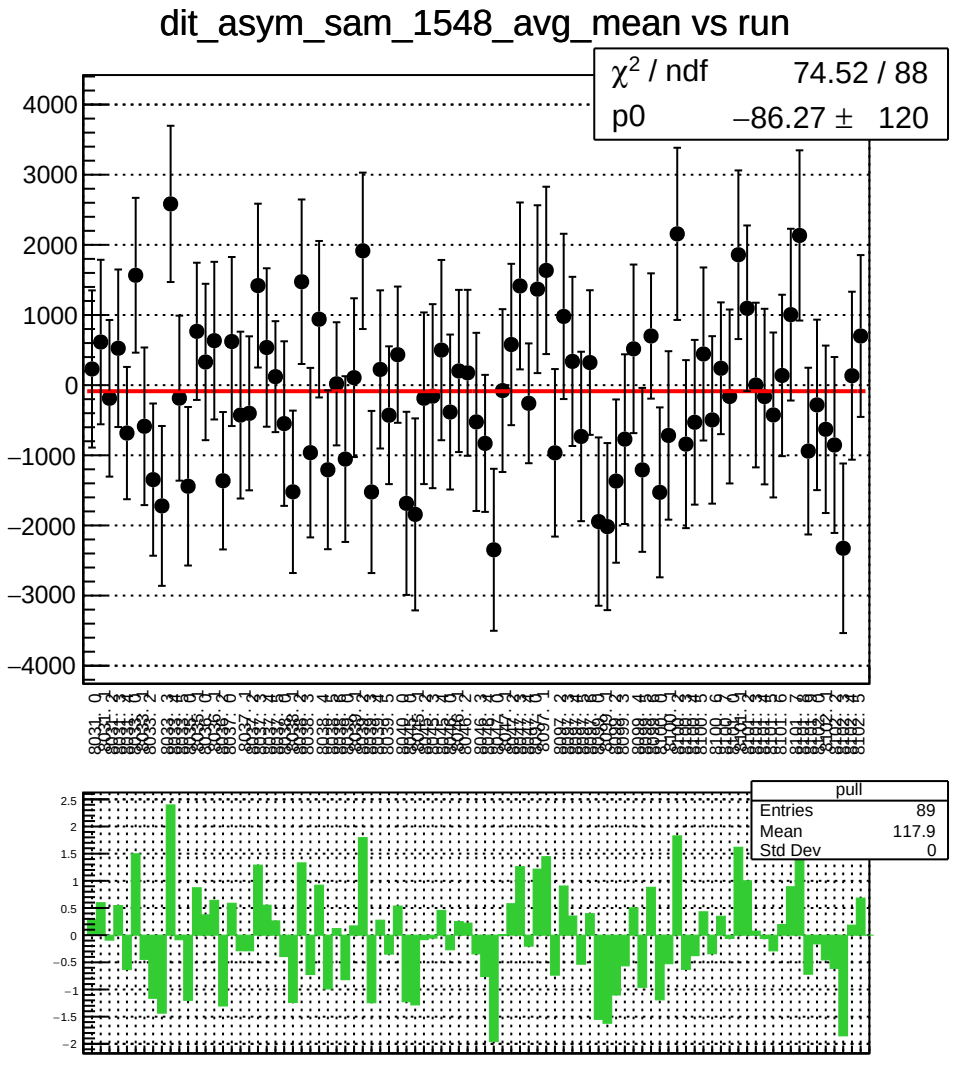

pull1D
Entries 89
Mean −0.008604
Std Dev 0.927

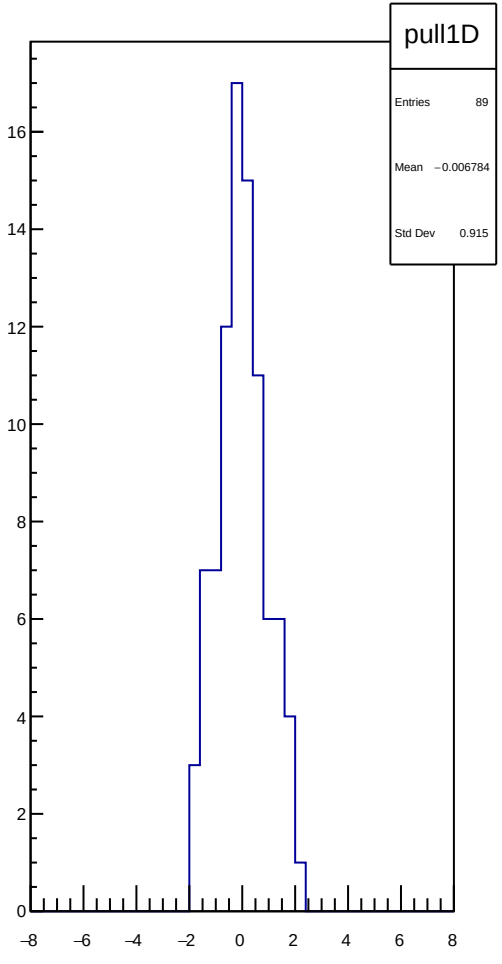

eigen_cor_asym_sam_1548_avg_rms vs run
χ² / ndf 4683 / 88
p0 100.4 ± 0.07609
120
115
110
105
100
95
90

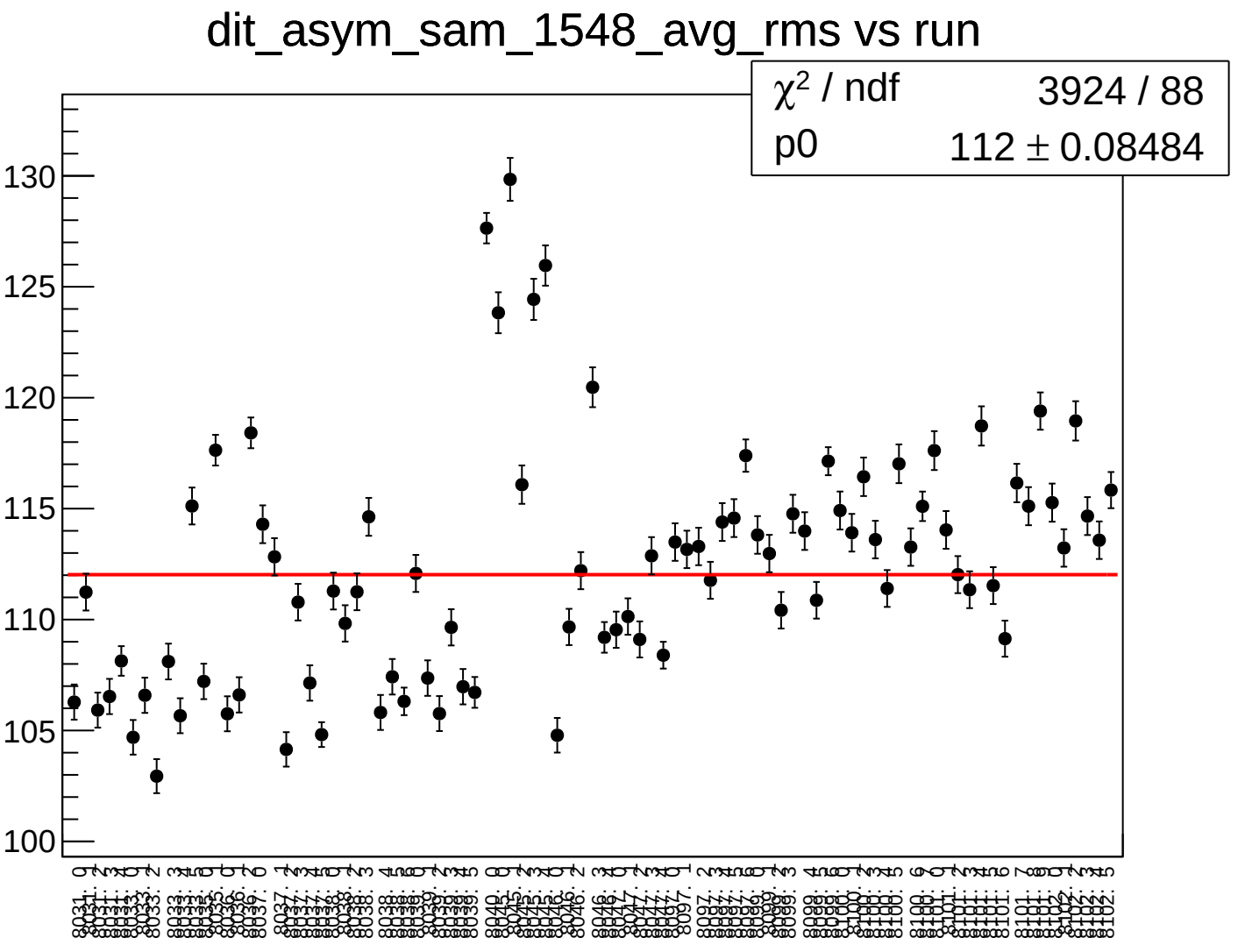

asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 54.96 / 88
p0 −1293 ± 1204
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean 367.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

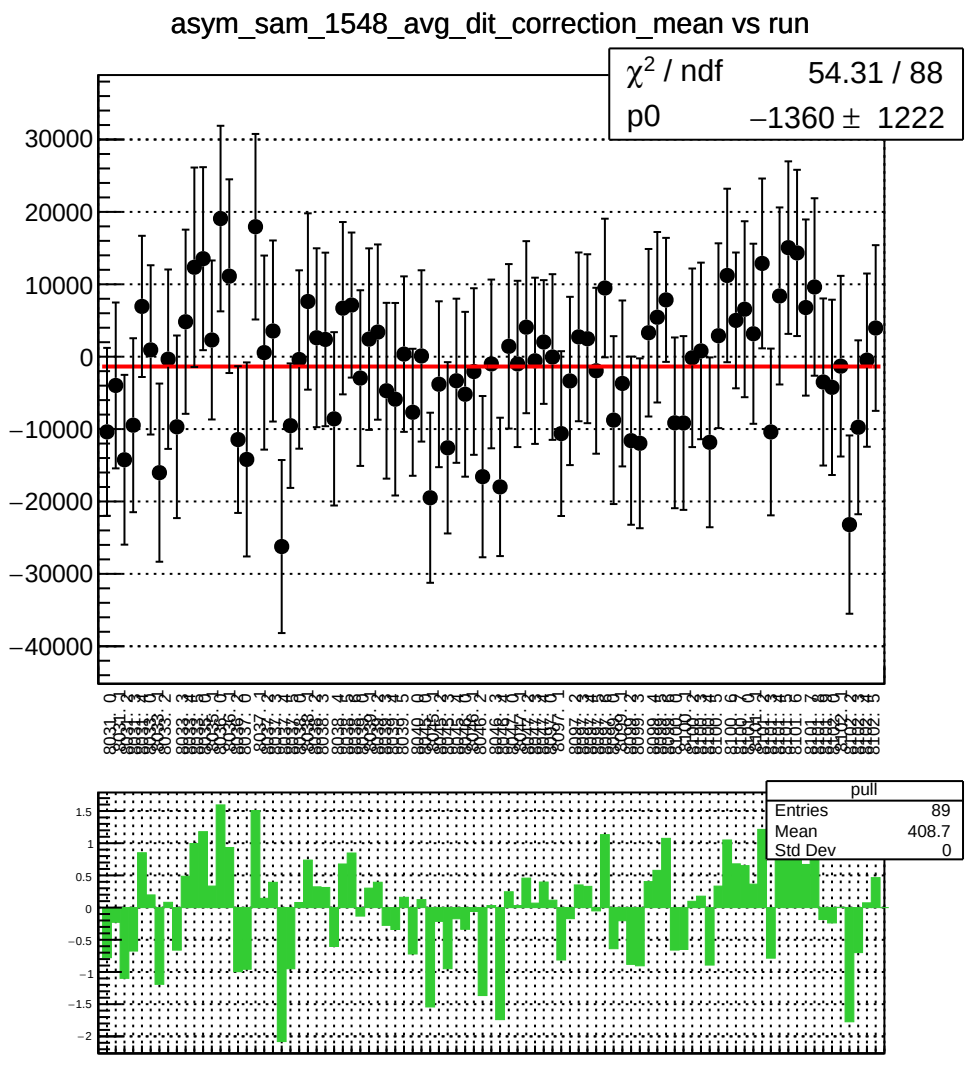

pull1D
Entries 89
Mean 0.006387
Std Dev 0.7858
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

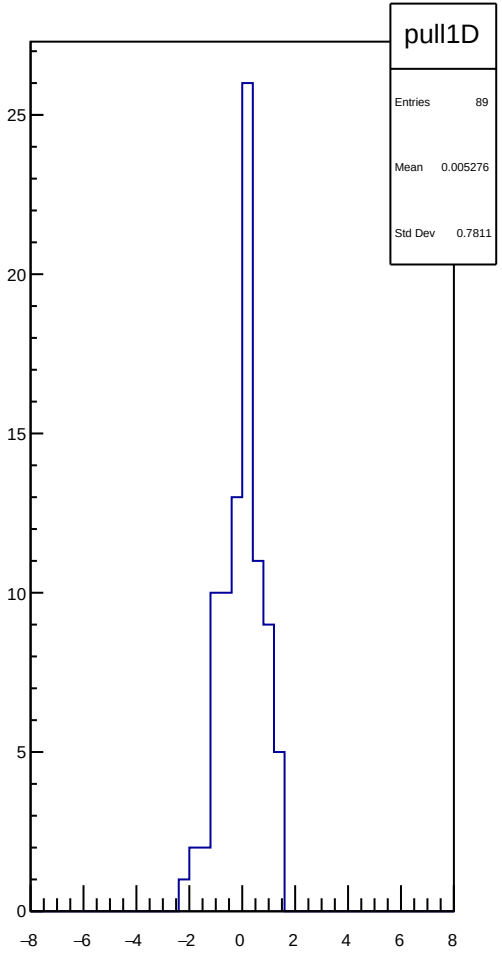

asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 4228 / 88
p0 1124 ± 0.8516
1350
1300
1250
1200
1150
1100
1050
1000

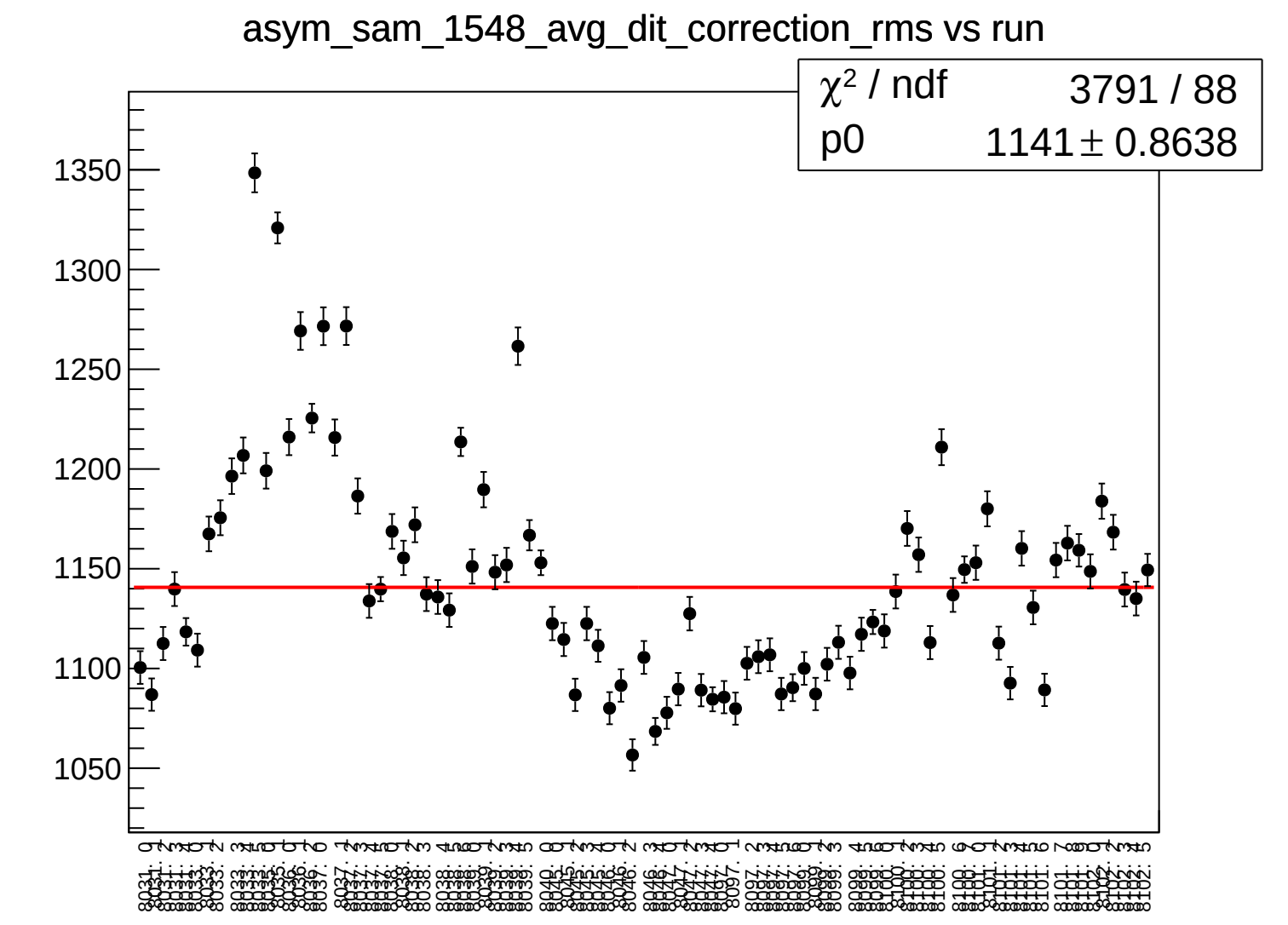

dit_asym_sam_1548_avg_mean vs run
$\chi^2$ / ndf 74.52 / 88
p0 −86.27 ± 120
pull
Entries 89
Mean 117.9
Std Dev 0

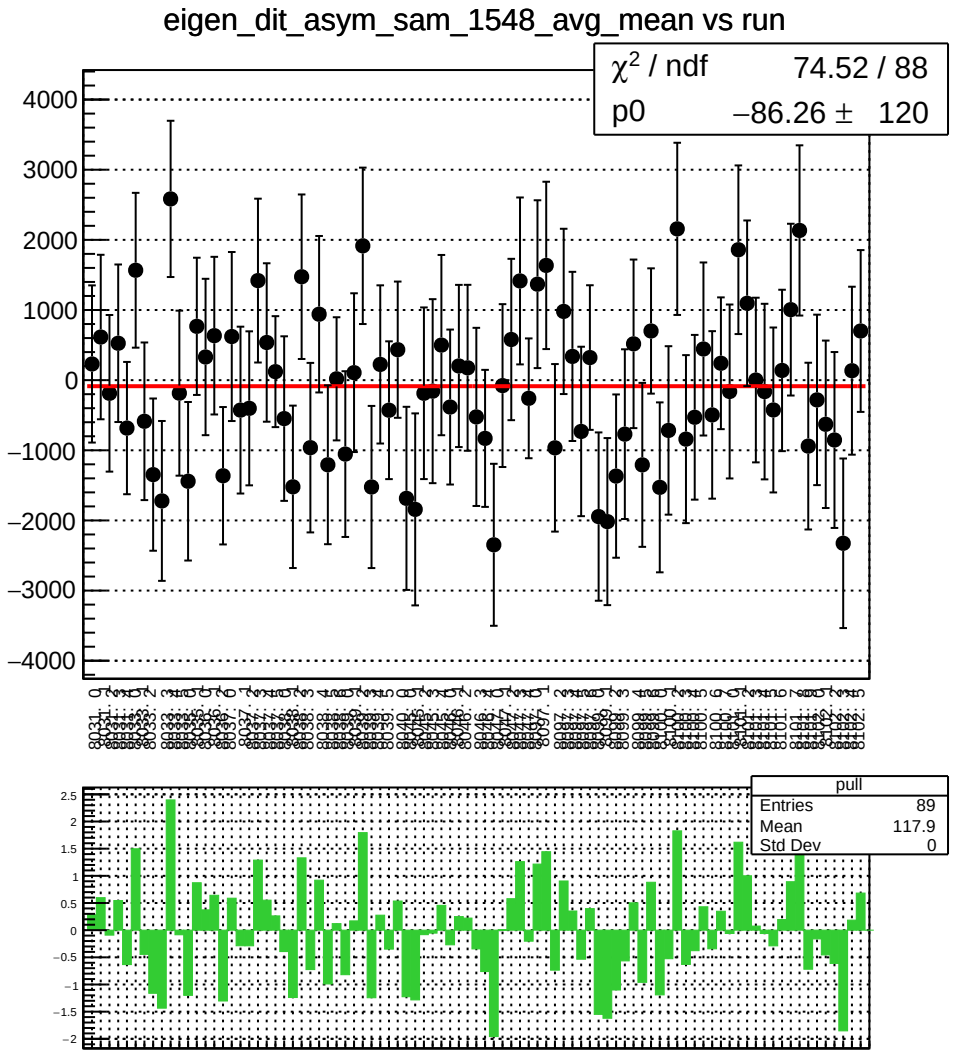

pull1D
Entries 89
Mean −0.006784
Std Dev 0.915

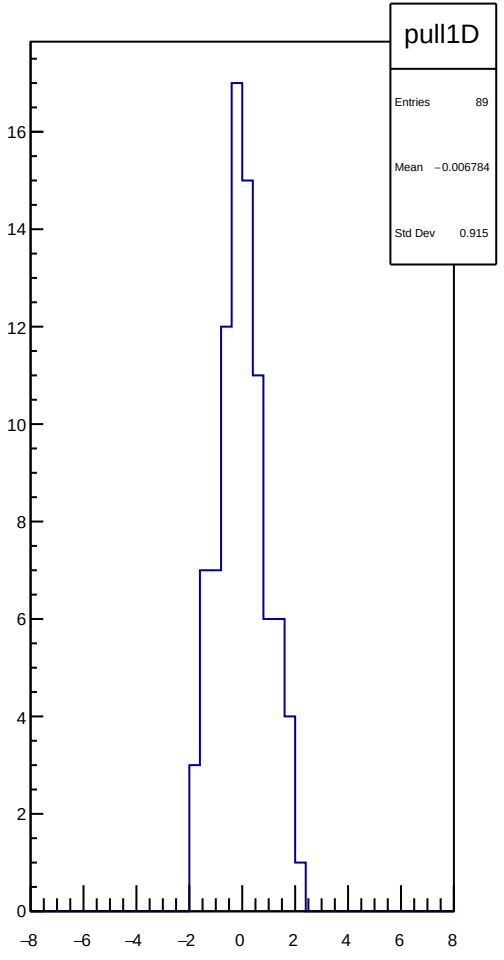

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 3924 / 88
p0 112 ± 0.08484
130
125
120
115
110
105
100

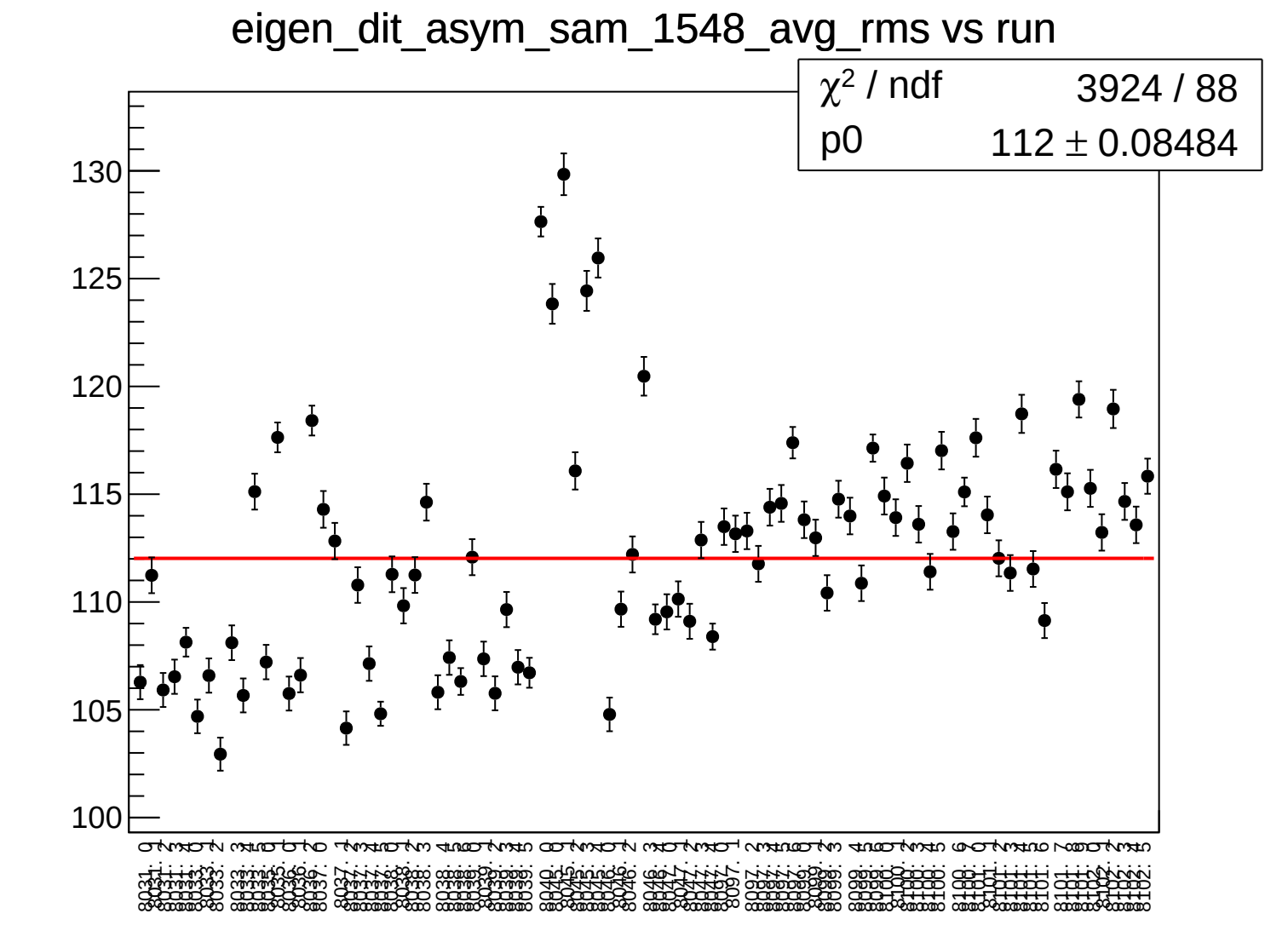

asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 54.31 / 88
p0 −1360 ± 1222
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean 408.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

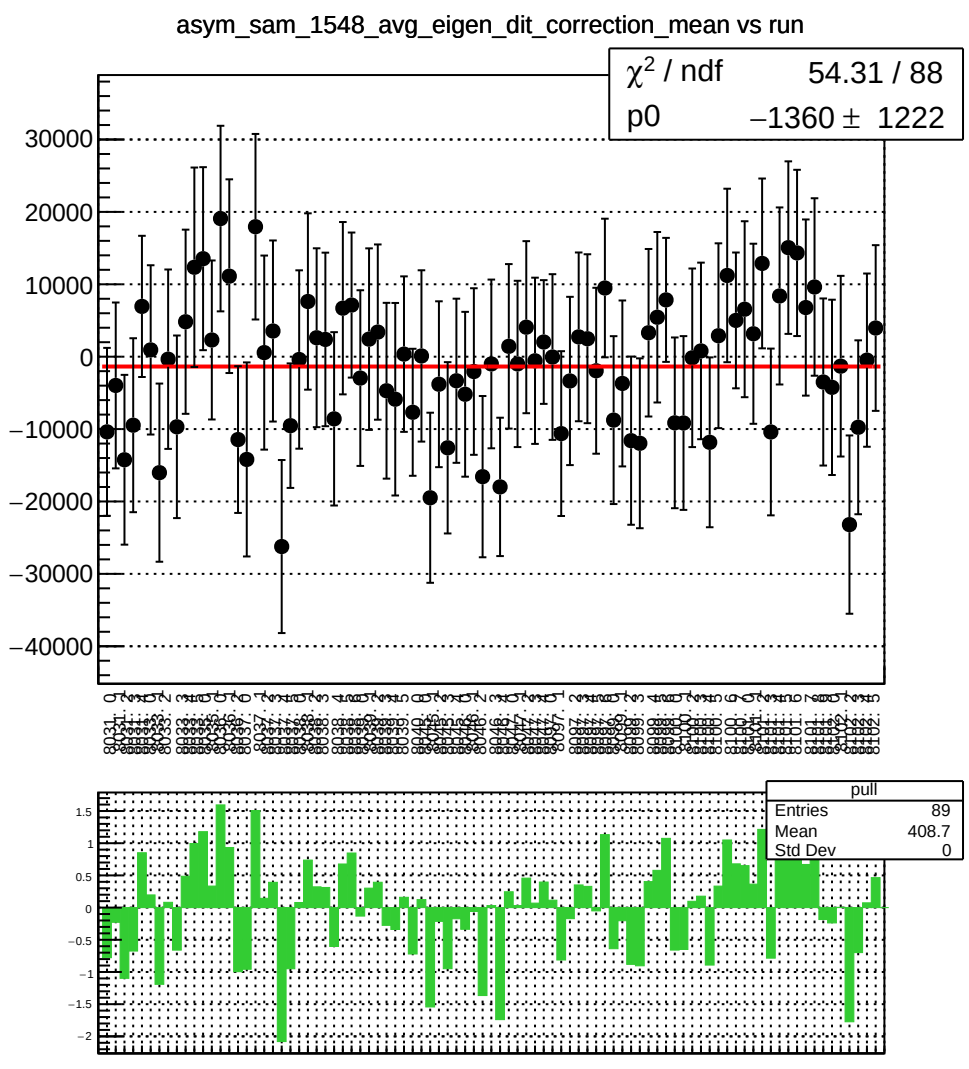

pull1D
Entries 89
Mean 0.005276
Std Dev 0.7811
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

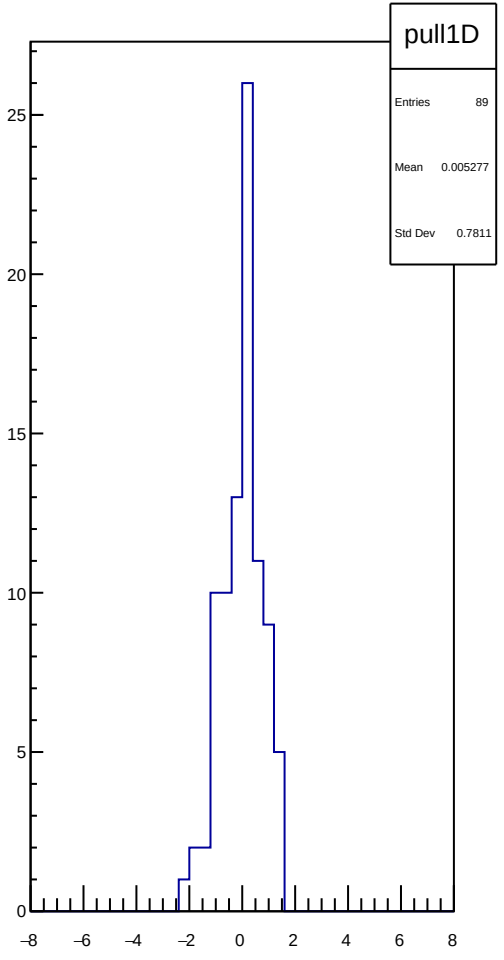

asym_sam_1548_avg_dit_correction_rms vs run
χ² / ndf 3791 / 88
p0 1141 ± 0.8638
1350
1300
1250
1200
1150
1100
1050

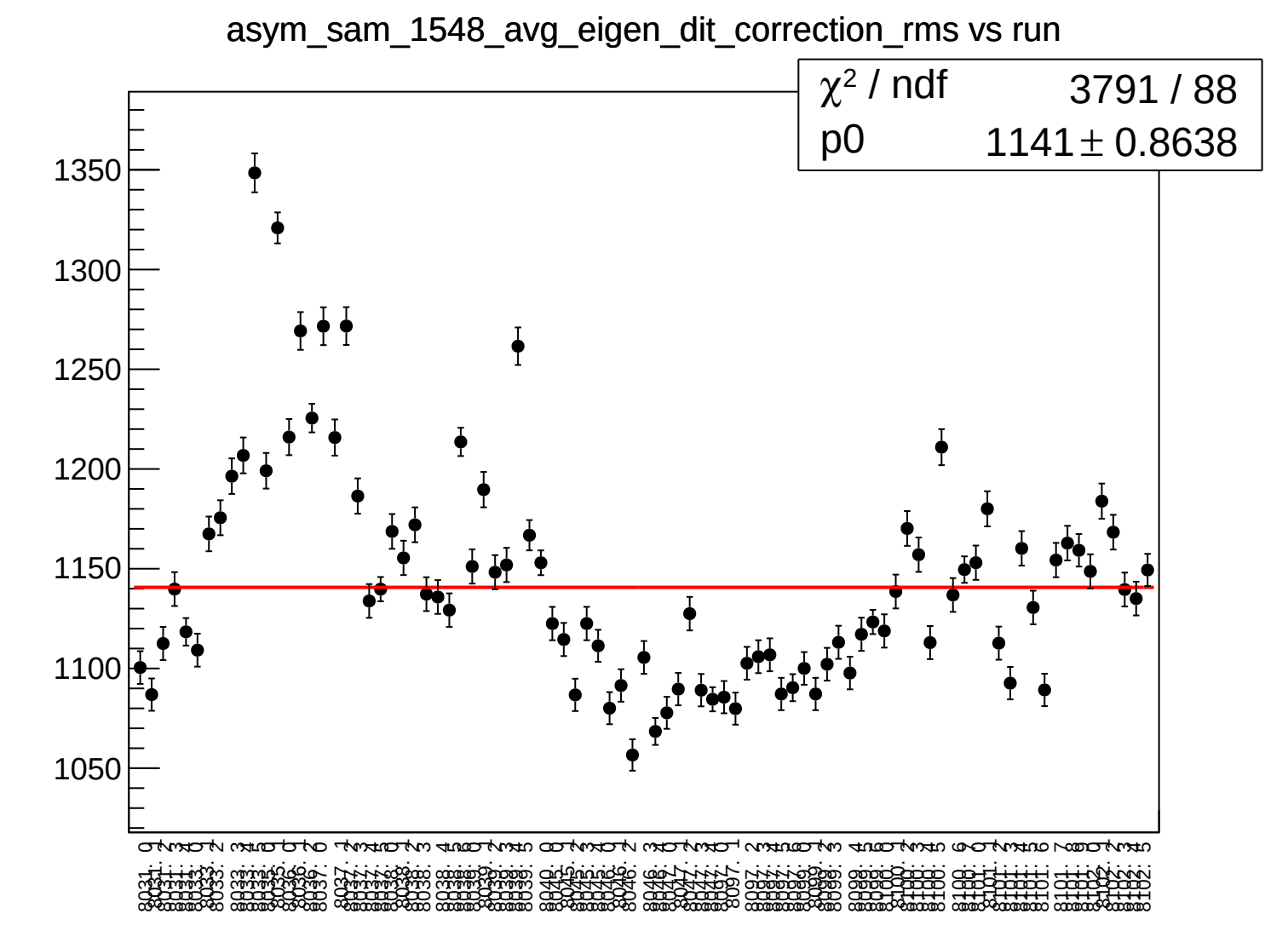

eigen_dit_asym_sam_1548_avg_mean vs run
$\chi^2$ / ndf 74.52 / 88
p0 −86.26 ± 120
pull
Entries 89
Mean 117.9
Std Dev 0

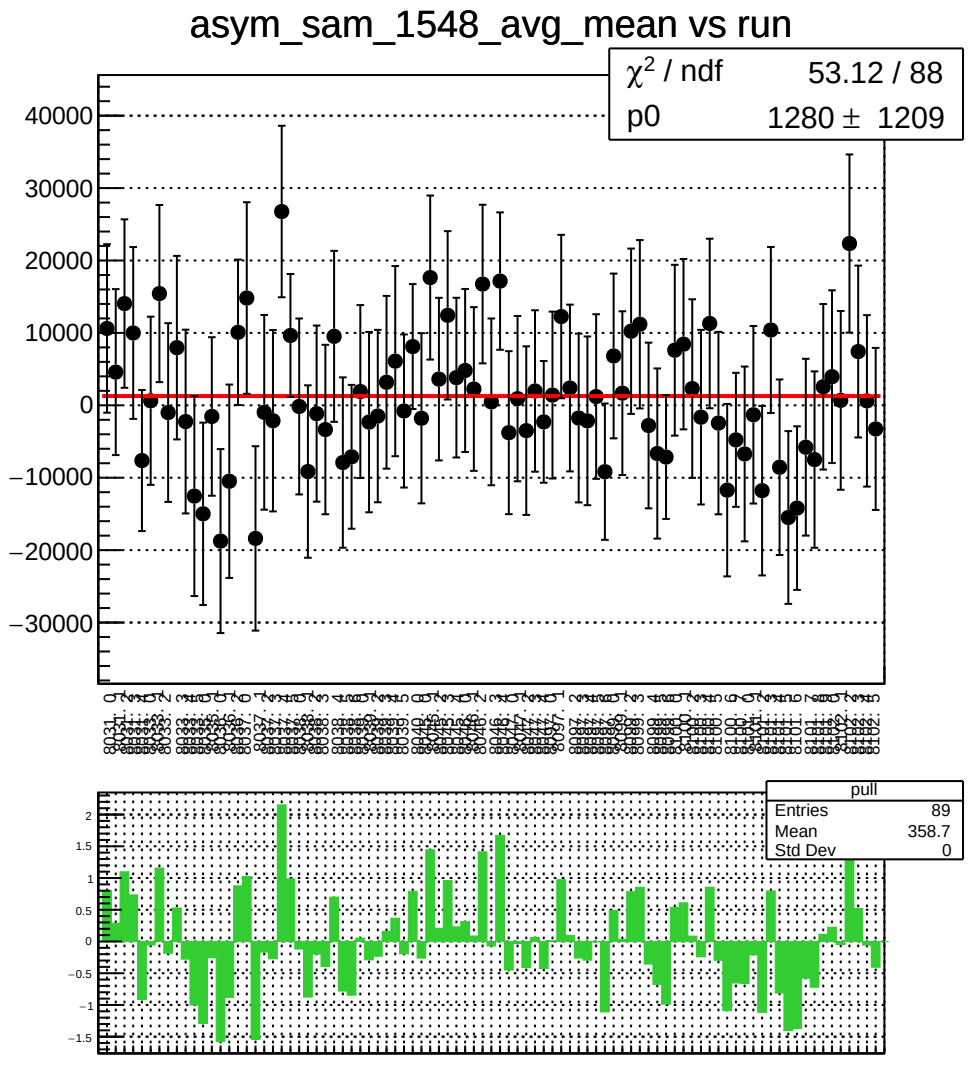

pull1D
Entries 89
Mean −0.006784
Std Dev 0.915

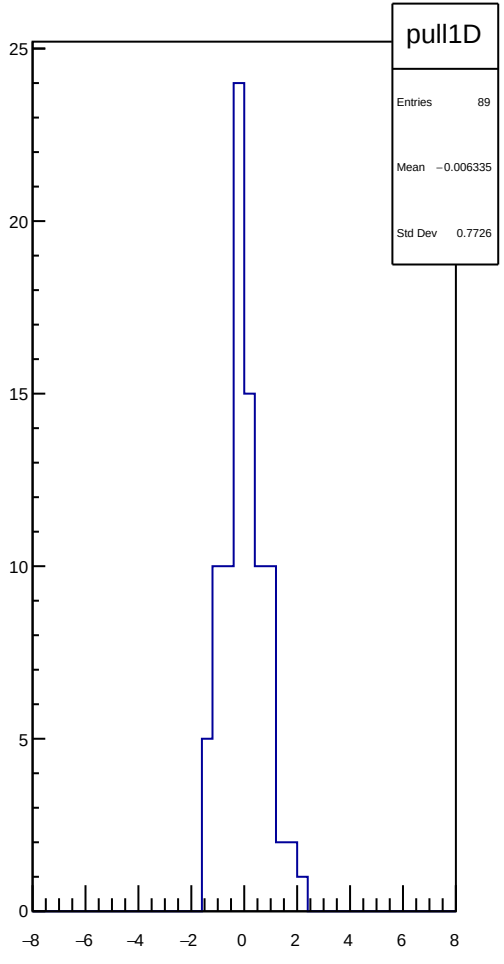

eigen_dit_asym_sam_1548_avg_rms vs run
χ² / ndf 3924 / 88
p0 112 ± 0.08484
130
125
120
115
110
105
100

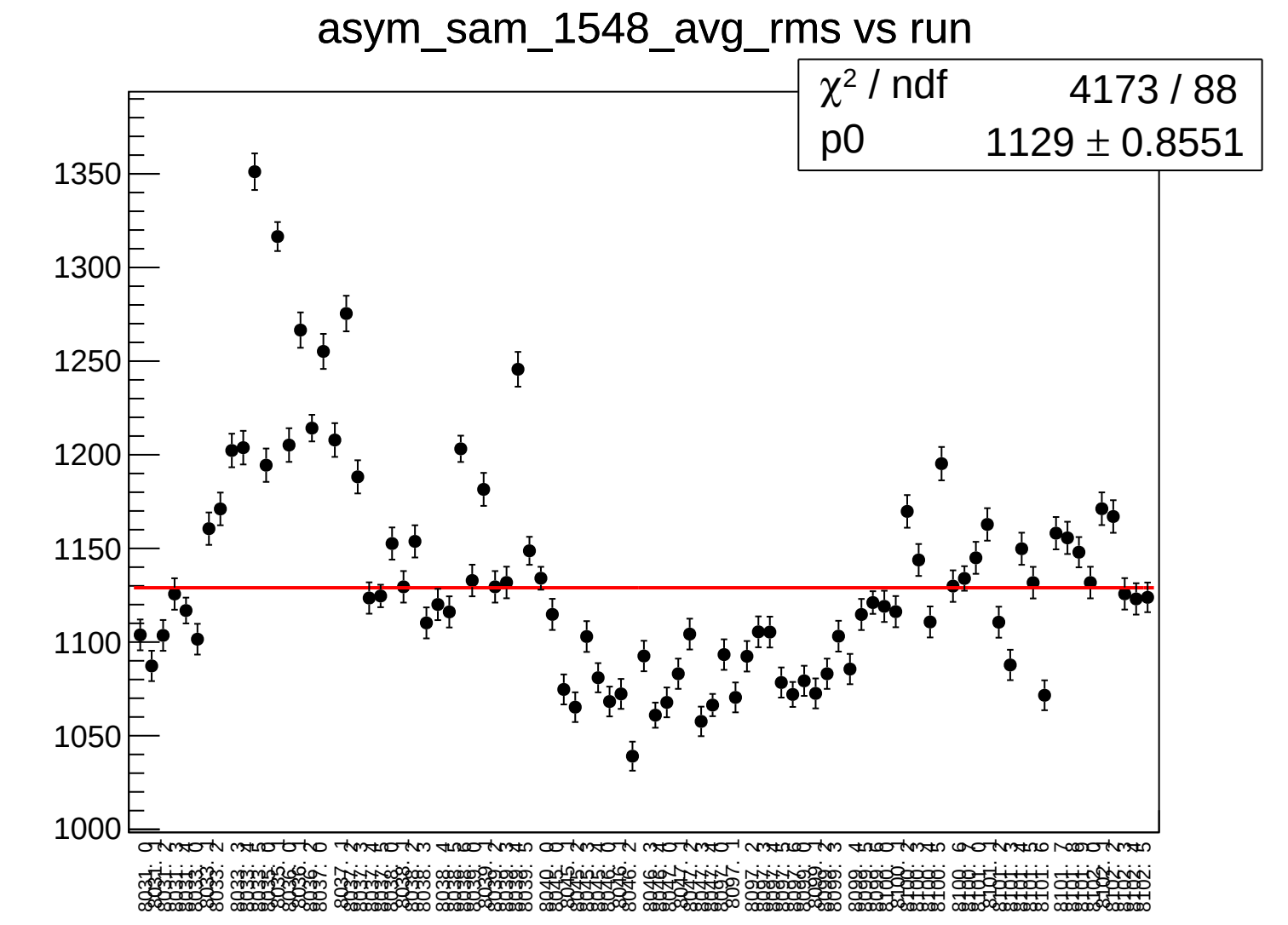

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 54.31 / 88
p0 −1360 ± 1222
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean 408.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

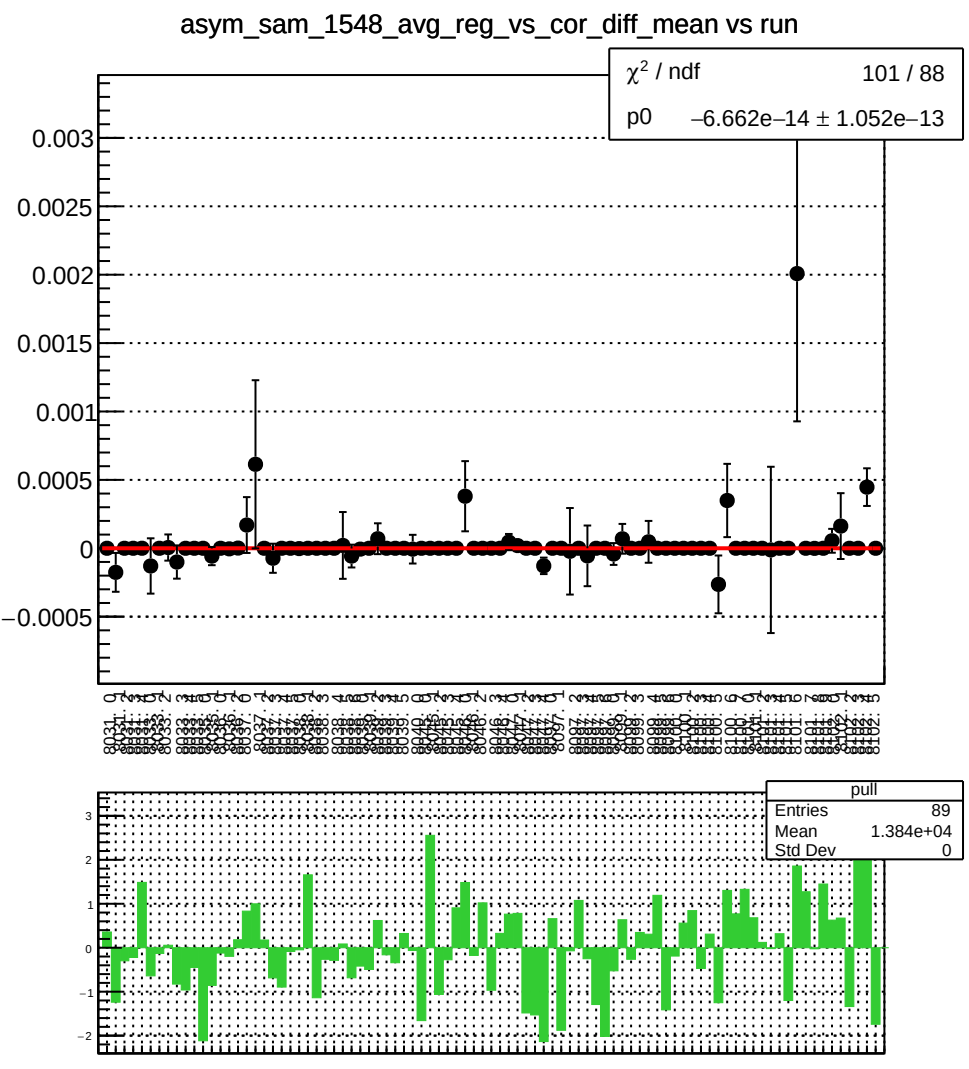

pull1D
Entries 89
Mean 0.005277
Std Dev 0.7811
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

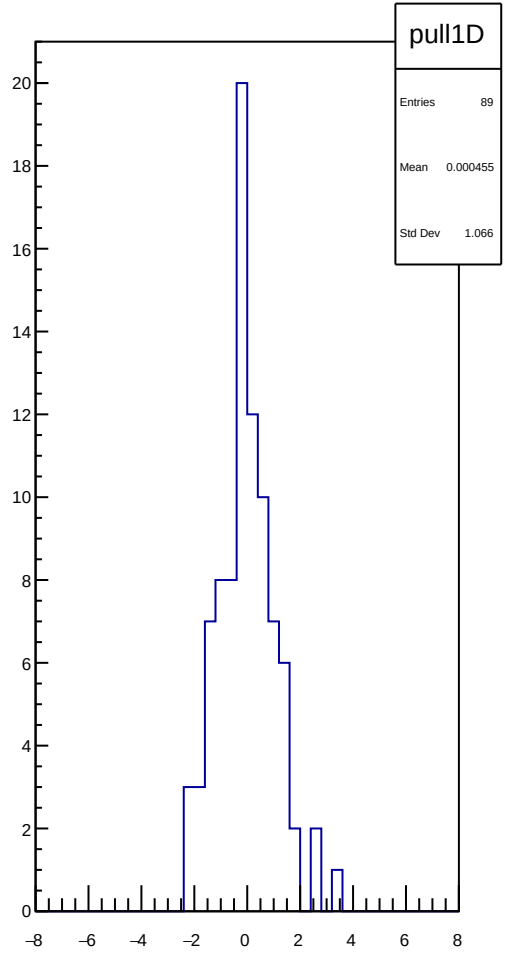

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 3791 / 88
p0 1141 ± 0.8638
1350
1300
1250
1200
1150
1100
1050

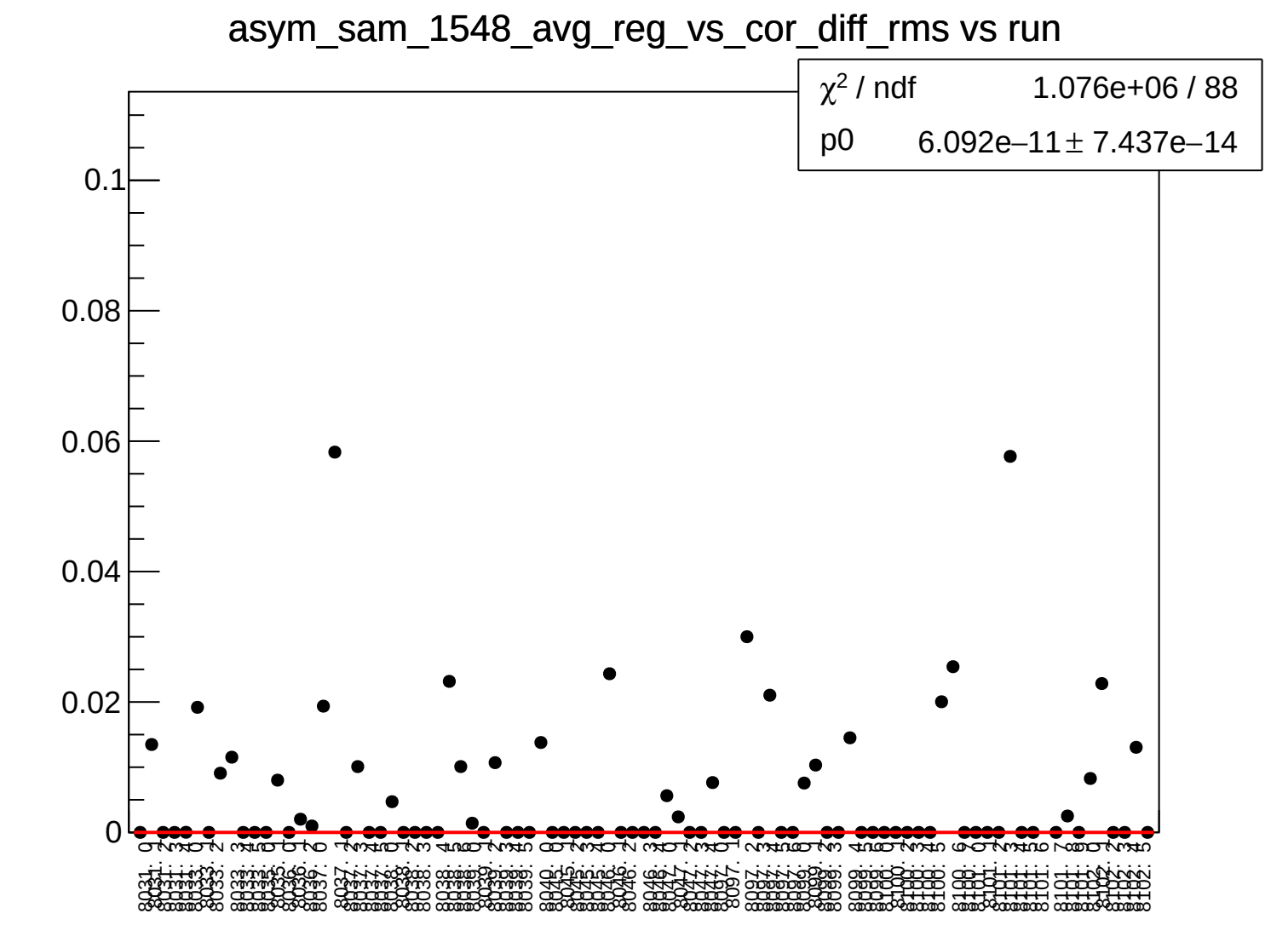

asym_sam_1548_avg_mean vs run
χ² / ndf 53.12 / 88
p0 1280 ± 1209
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 358.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

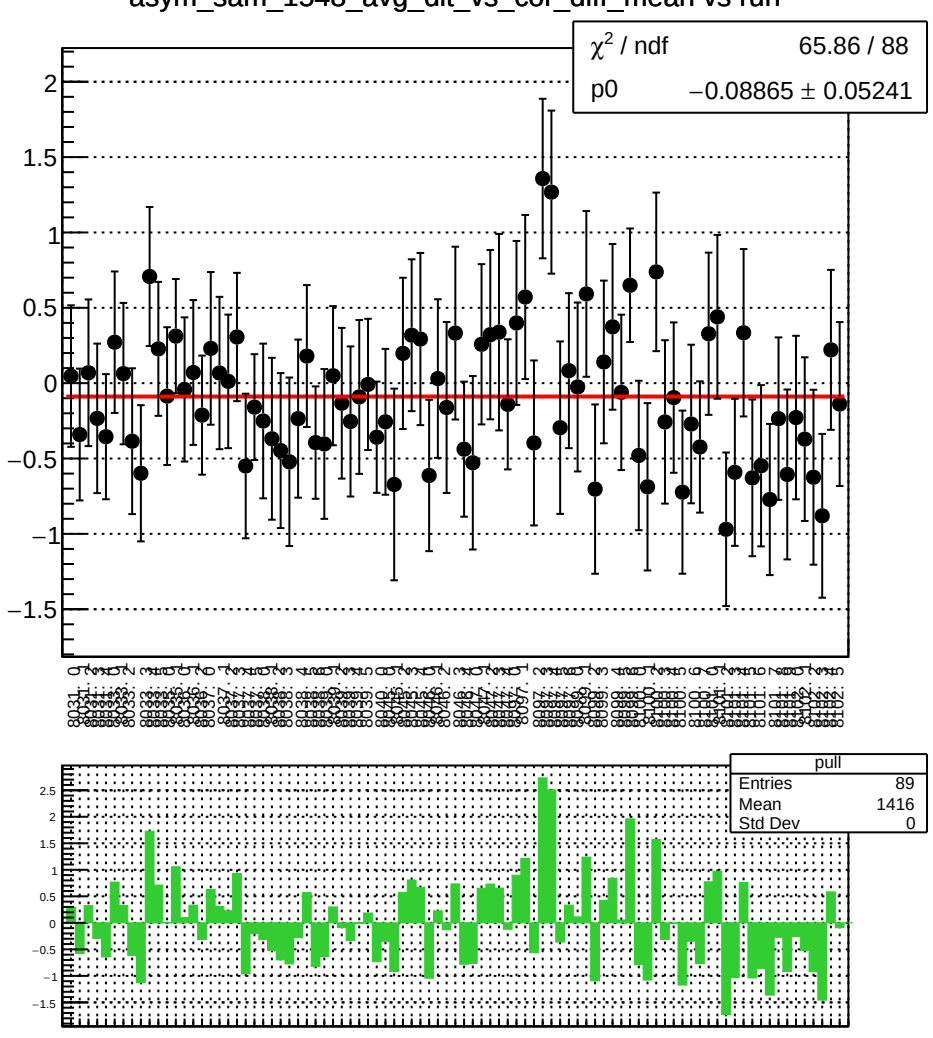

pull1D
Entries 89
Mean −0.006335
Std Dev 0.7726
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

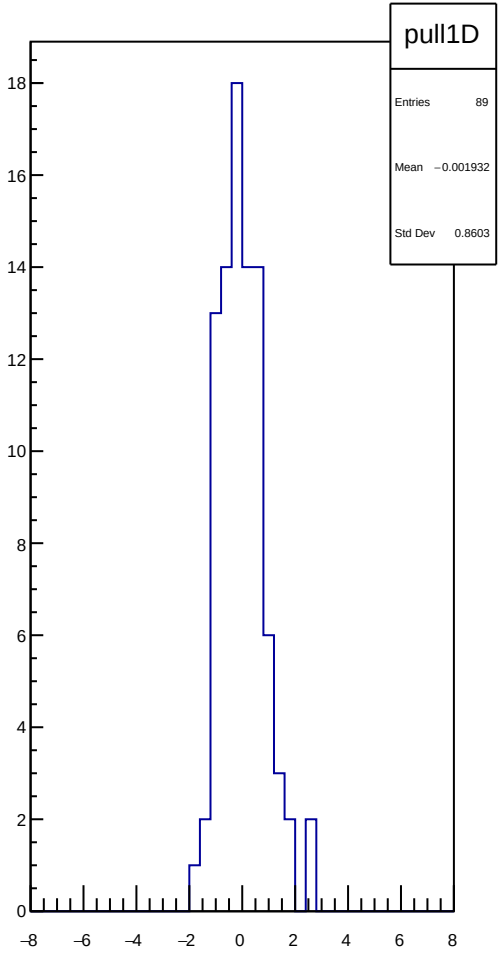

asym_sam_1548_avg_rms vs run
χ² / ndf 4173 / 88
p0 1129 ± 0.8551
1350
1300
1250
1200
1150
1100
1050
1000

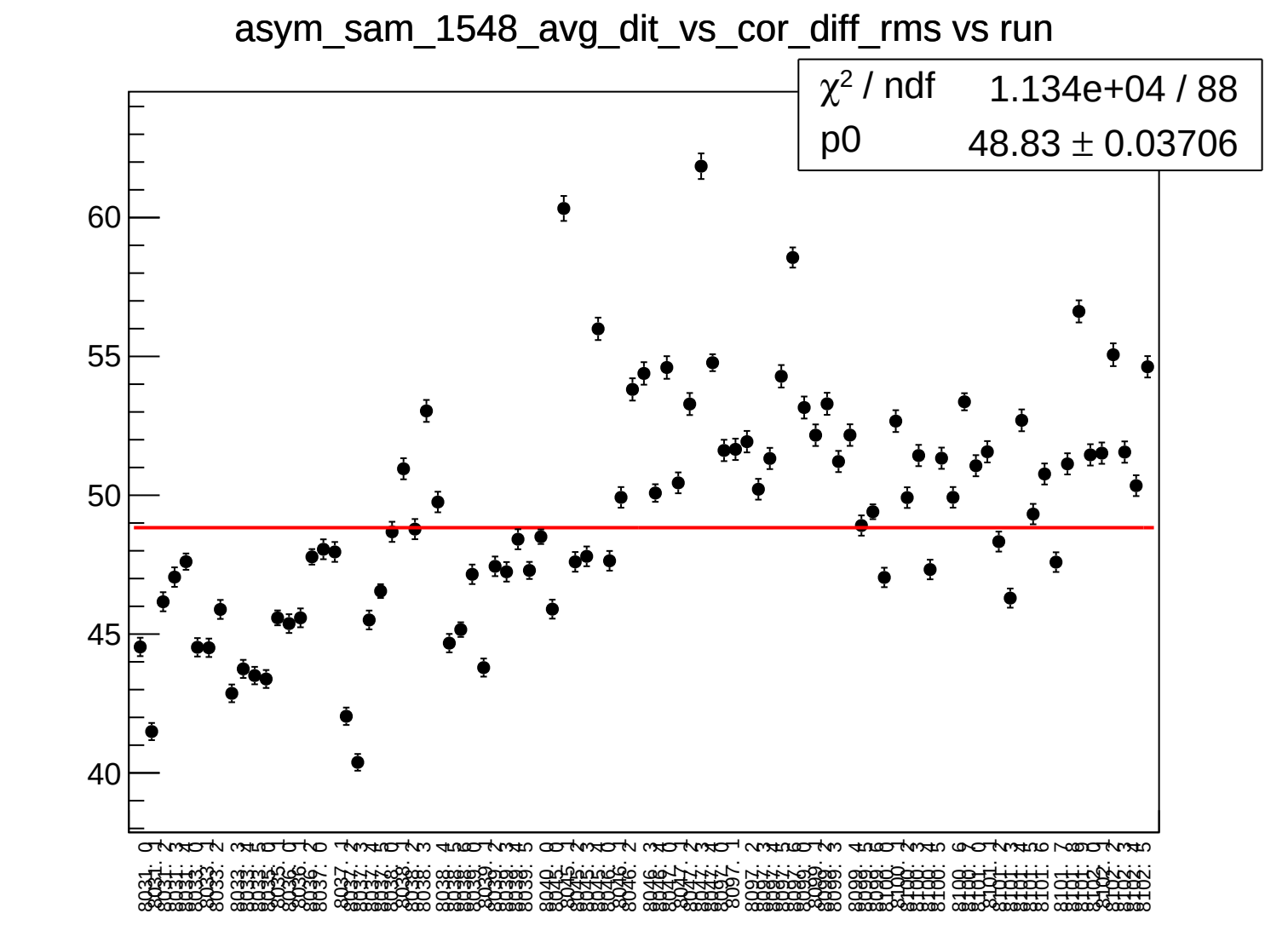

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 101 / 88
p0 −6.662e−14 ± 1.052e−13
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
−0.0005
pull
Entries 89
Mean 1.384e+04
Std Dev 0
3
2
1
0
−1
−2

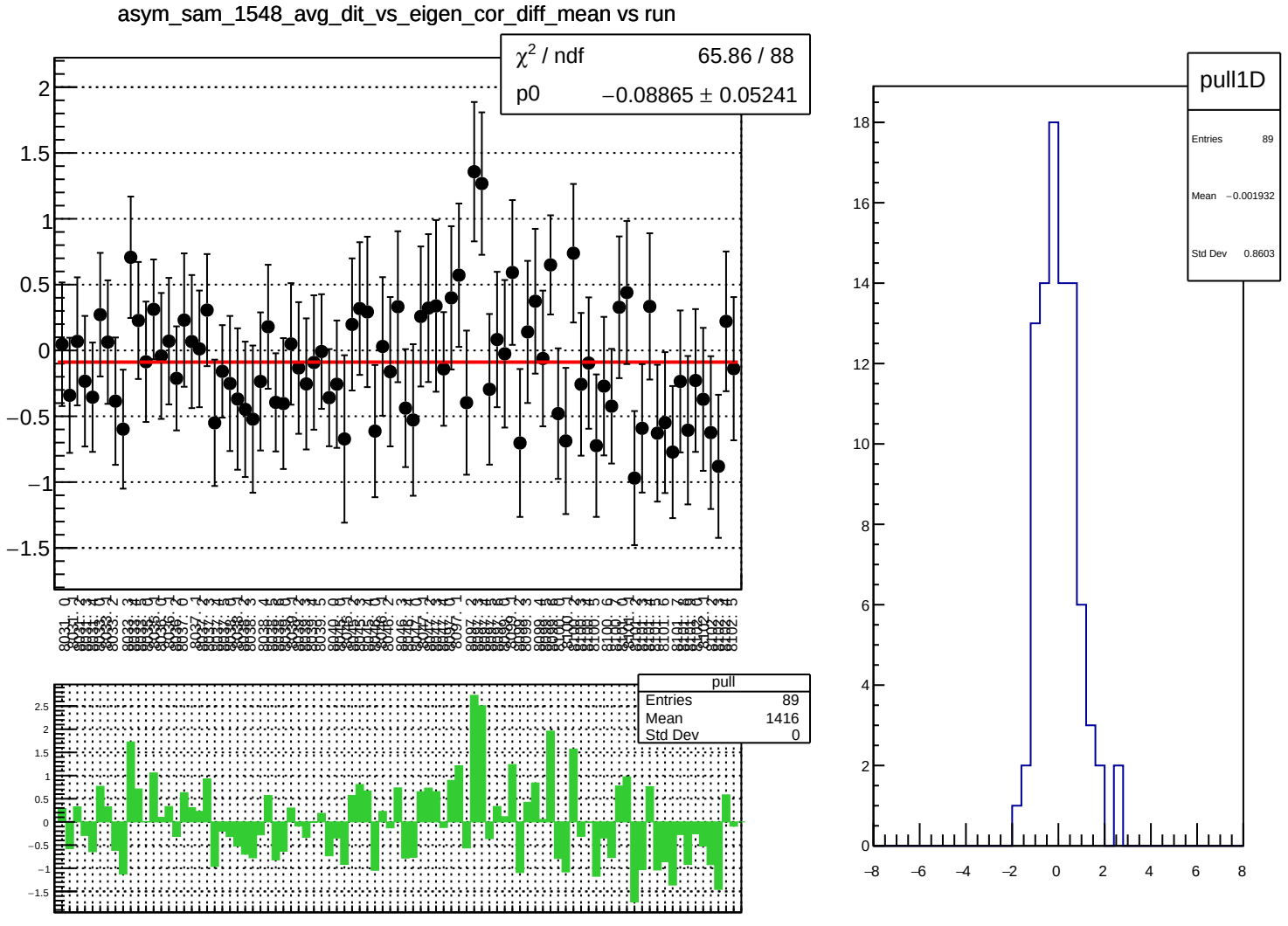

pull1D
Entries 89
Mean 0.000455
Std Dev 1.066
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

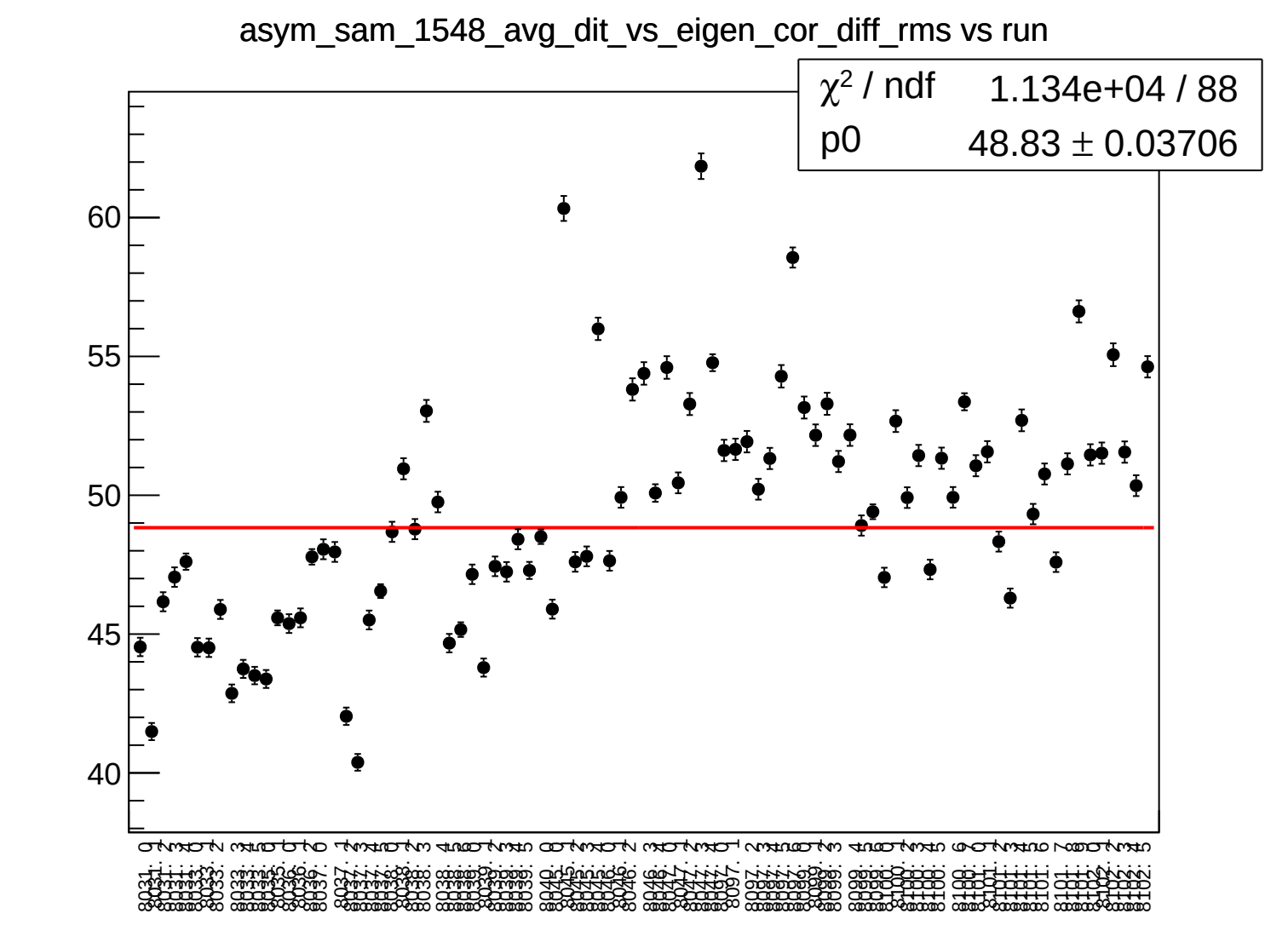

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.076e+06 / 88
p0 6.092e−11 ± 7.437e−14
0.1
0.08
0.06
0.04
0.02
0

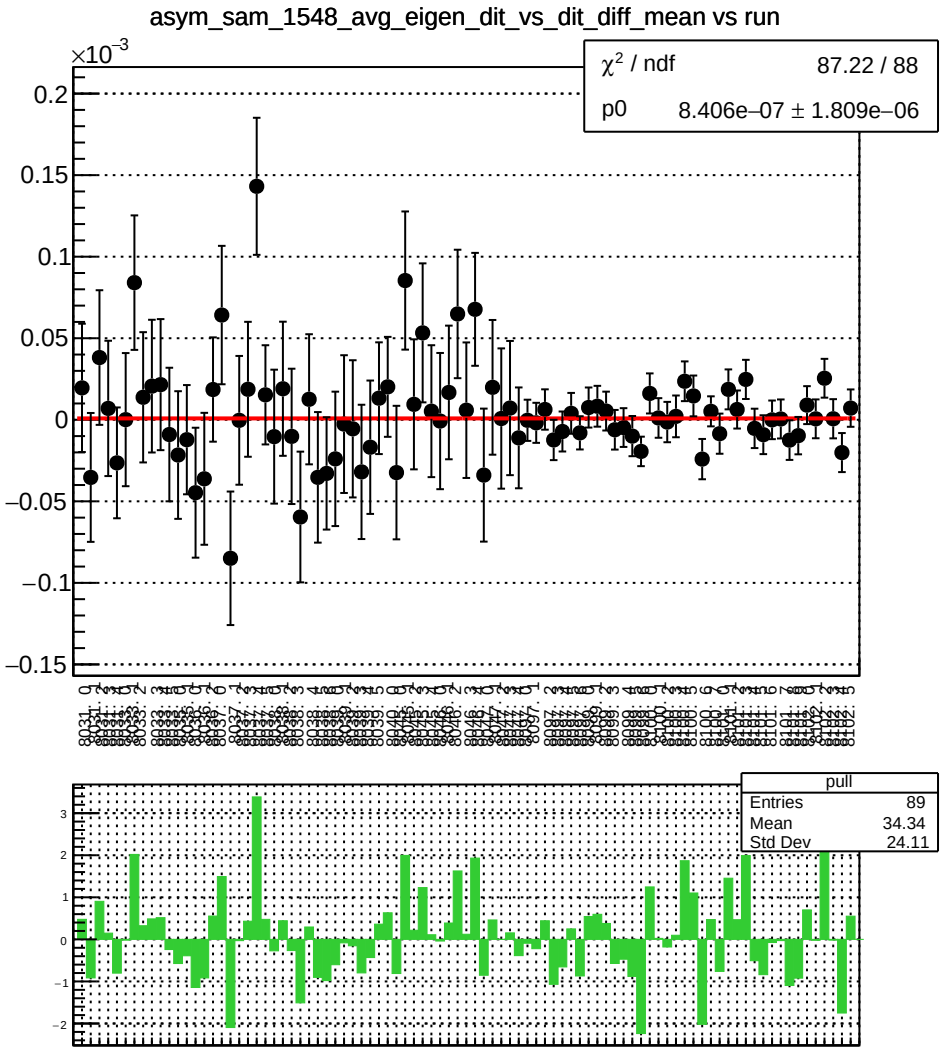

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 65.86 / 88
p0 −0.08865 ± 0.05241
pull
Entries 89
Mean 1416
Std Dev 0

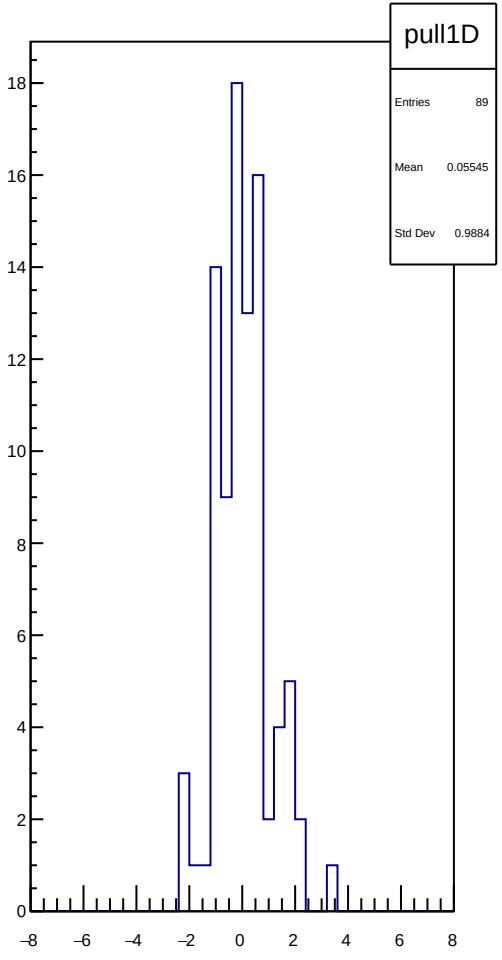

pull1D
Entries 89
Mean −0.001932
Std Dev 0.8603

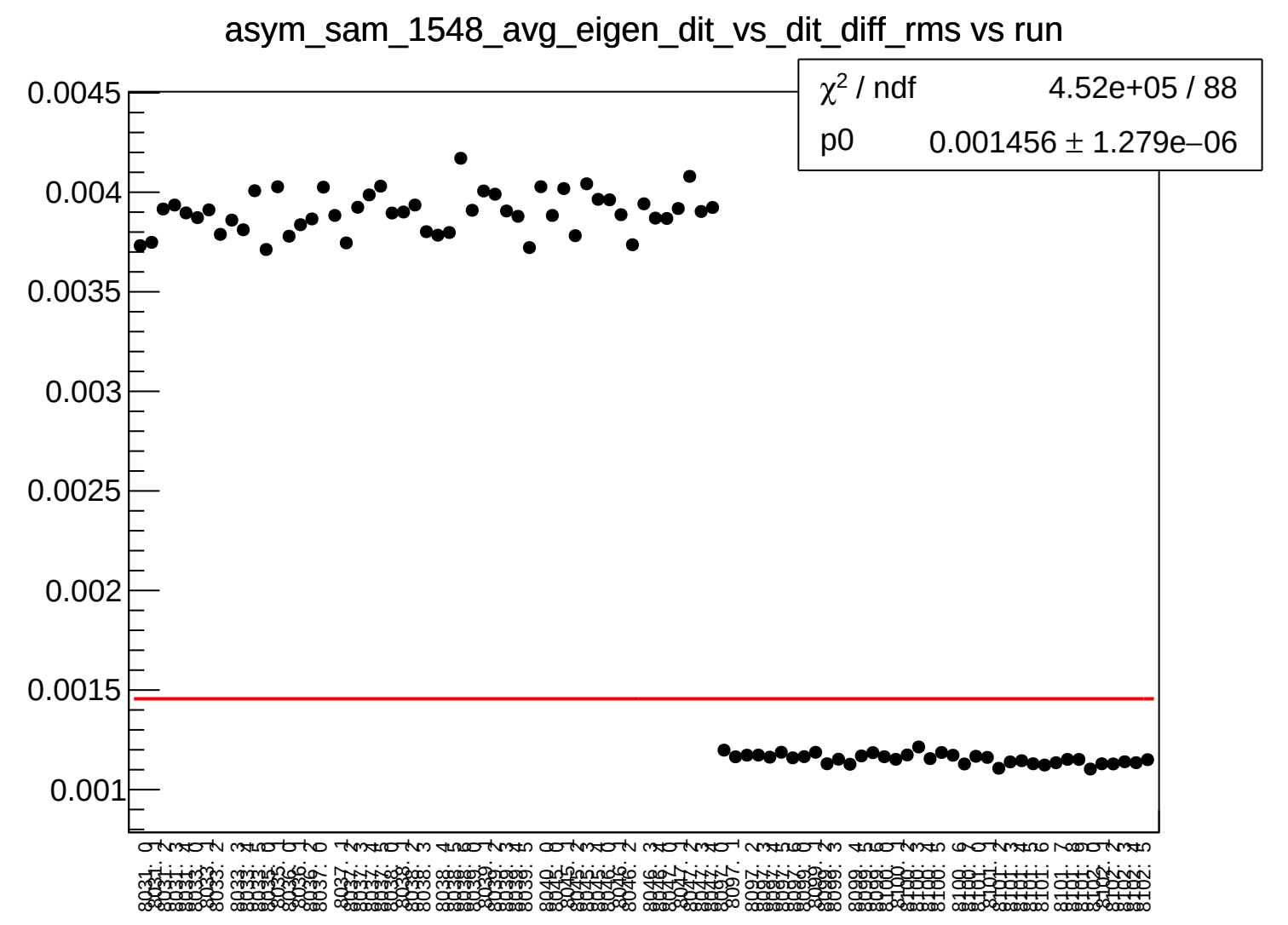

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.134e+04 / 88
p0 48.83 ± 0.03706
60
55
50
45
40

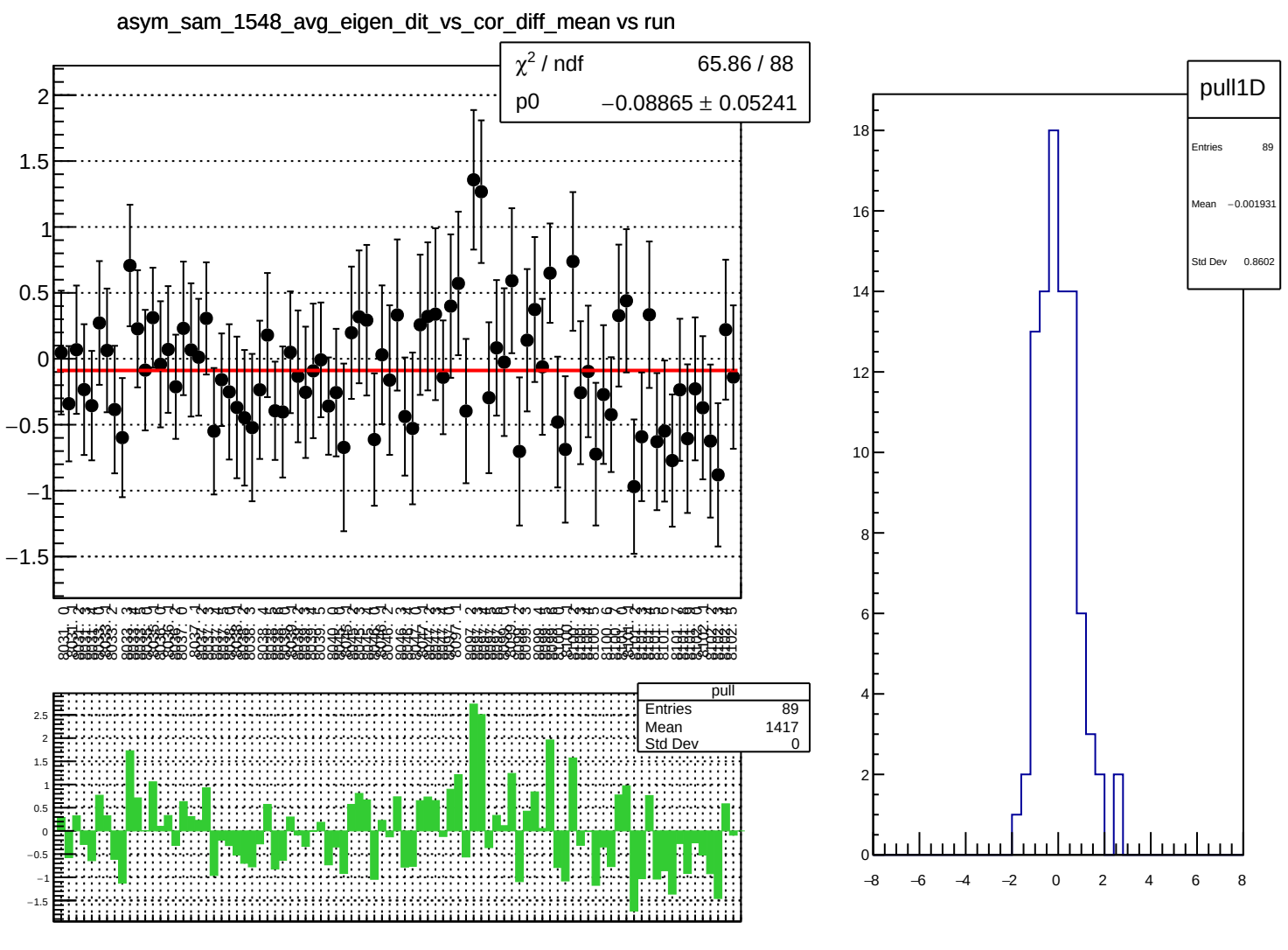

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.86 / 88
p0 −0.08865 ± 0.05241
pull
Entries 89
Mean 1416
Std Dev 0
pull1D
Entries 89
Mean −0.001932
Std Dev 0.8603

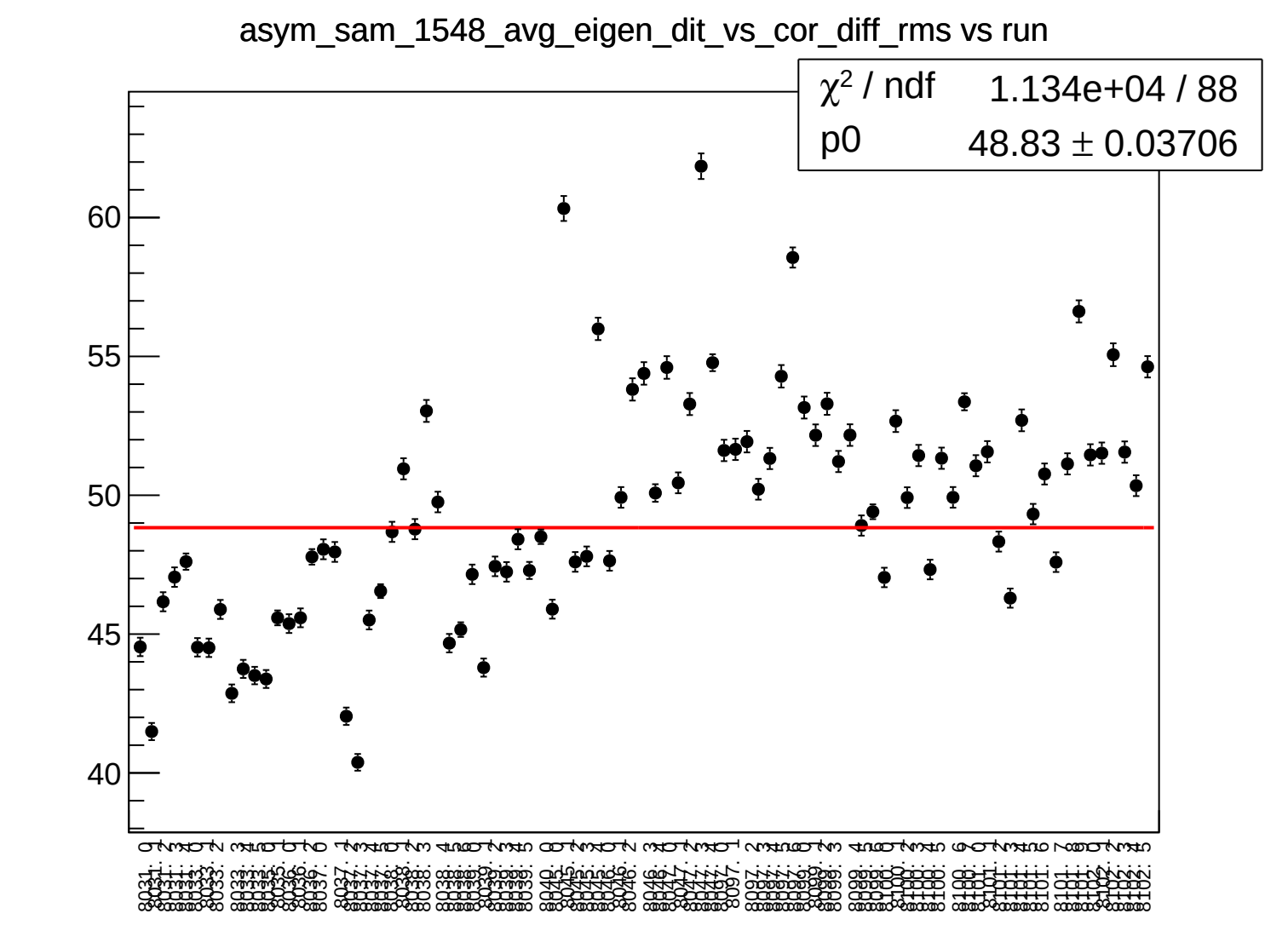

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.134e+04 / 88
p0 48.83 ± 0.03706
60
55
50
45
40

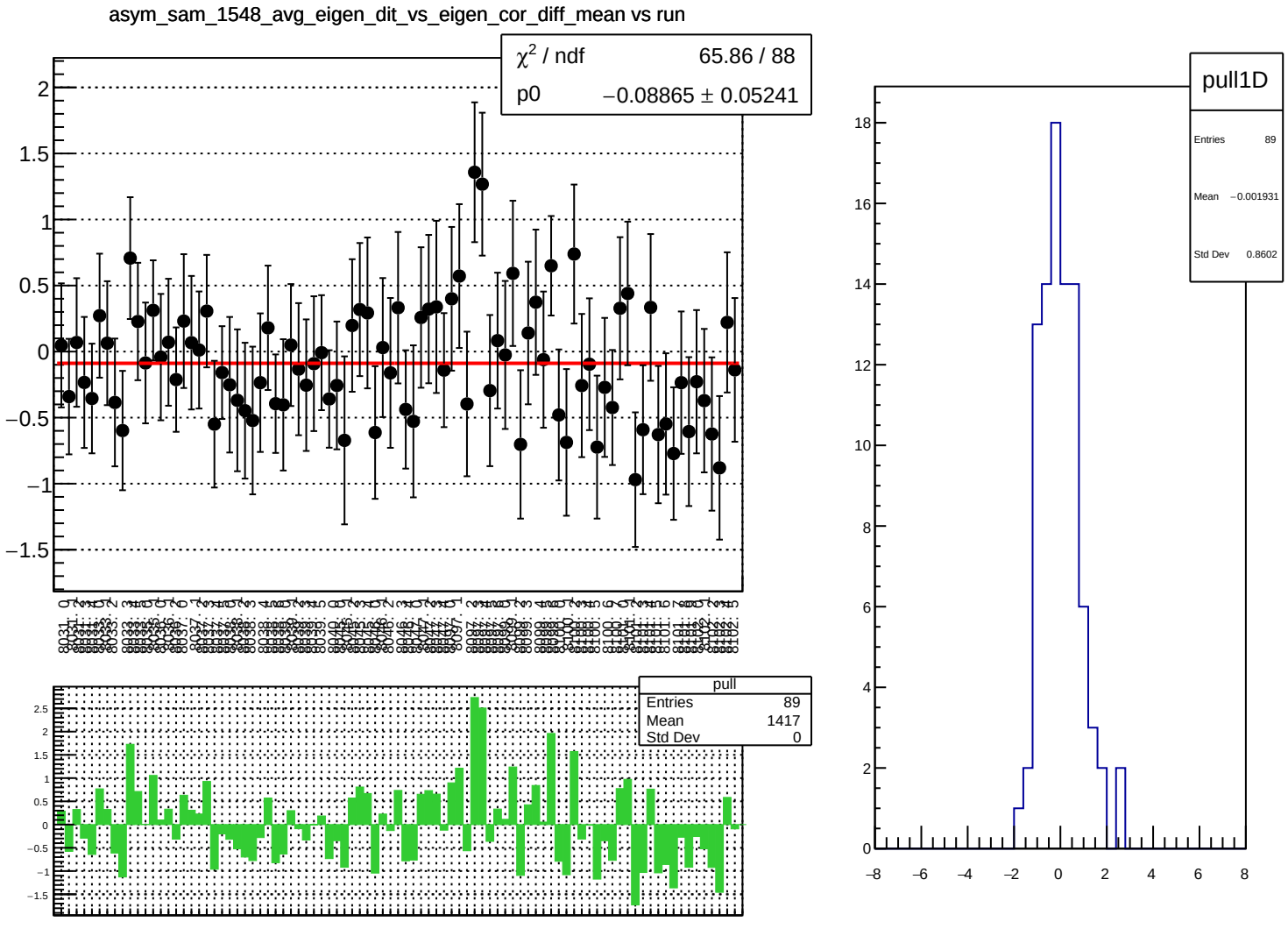

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 87.22 / 88
p0 8.406e−07 ± 1.809e−06
pull
Entries 89
Mean 34.34
Std Dev 24.11

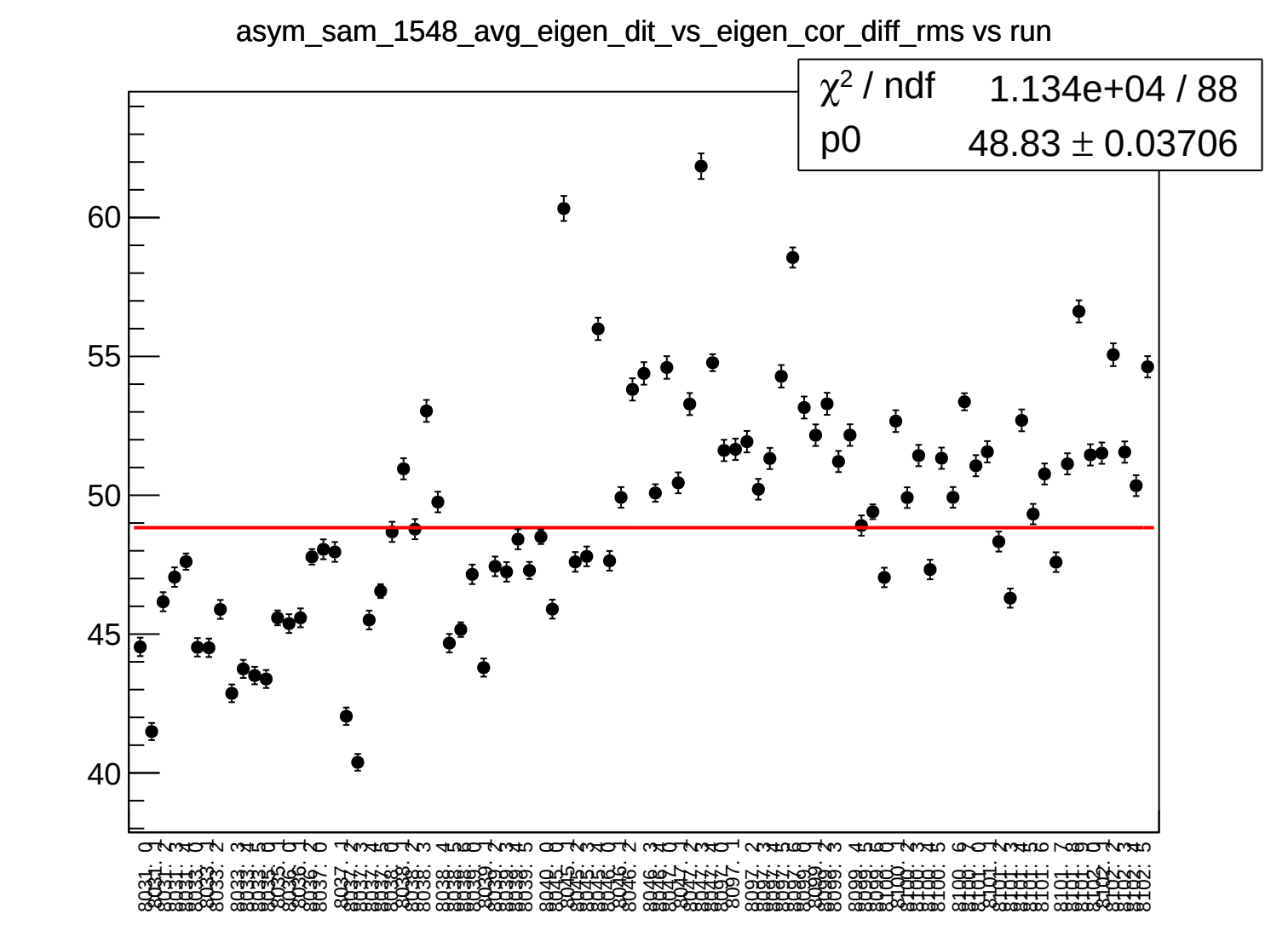

pull1D
Entries 89
Mean 0.05545
Std Dev 0.9884

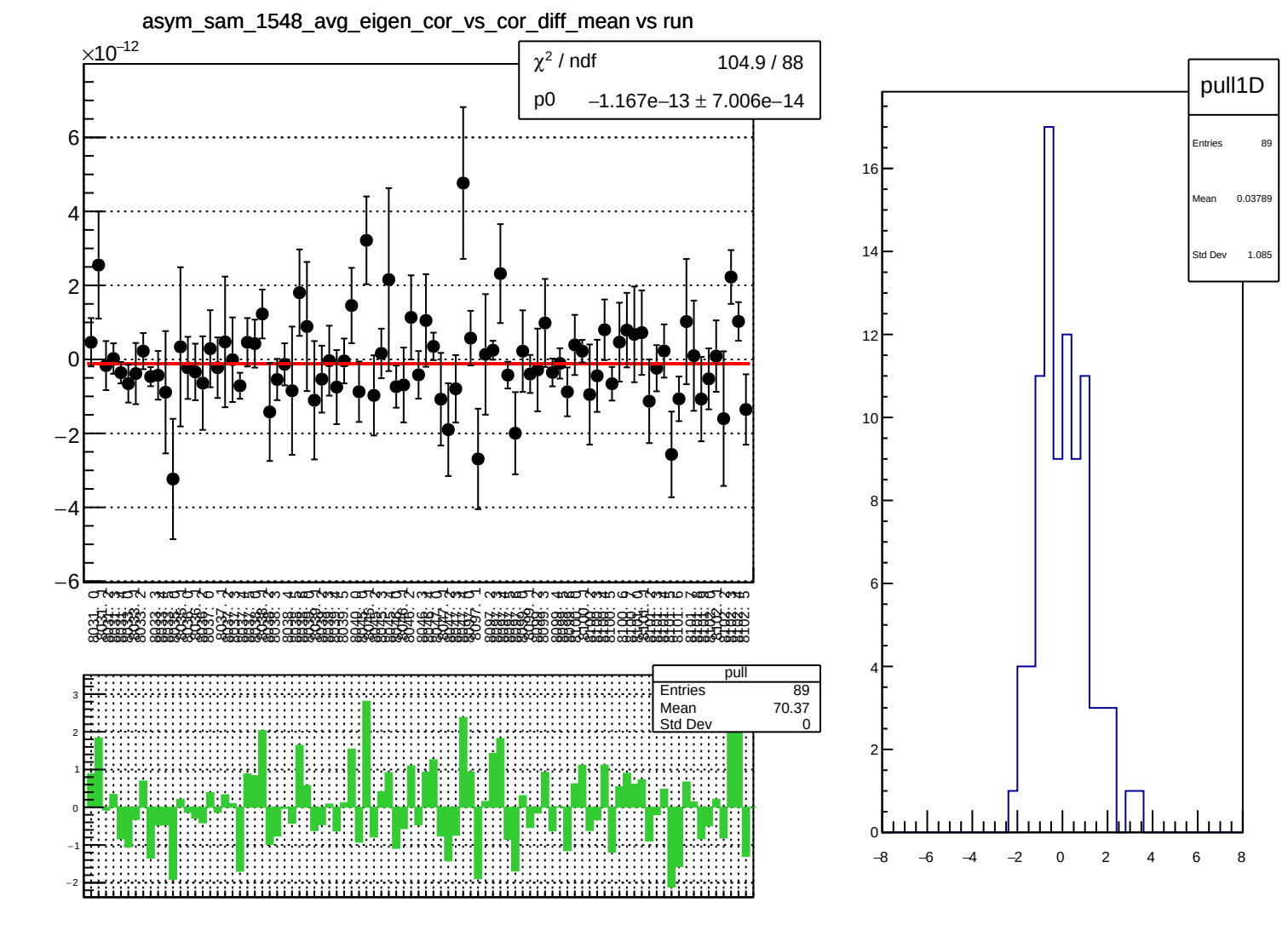

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.52e+05 / 88
p0 0.001456 ± 1.279e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

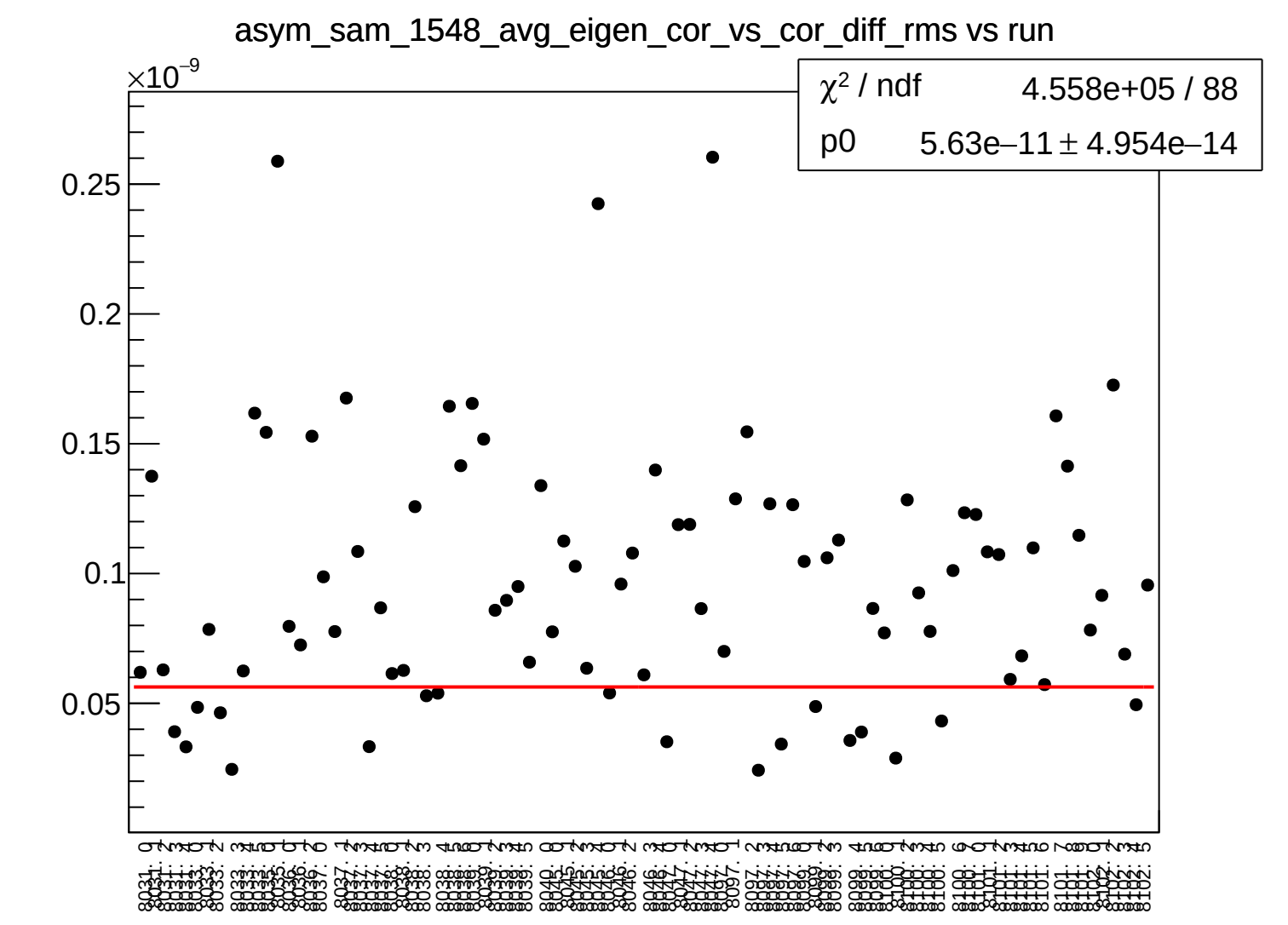

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 65.86 / 88
p0 −0.08865 ± 0.05241
pull
Entries 89
Mean 1417
Std Dev 0
pull1D
Entries 89
Mean −0.001931
Std Dev 0.8602

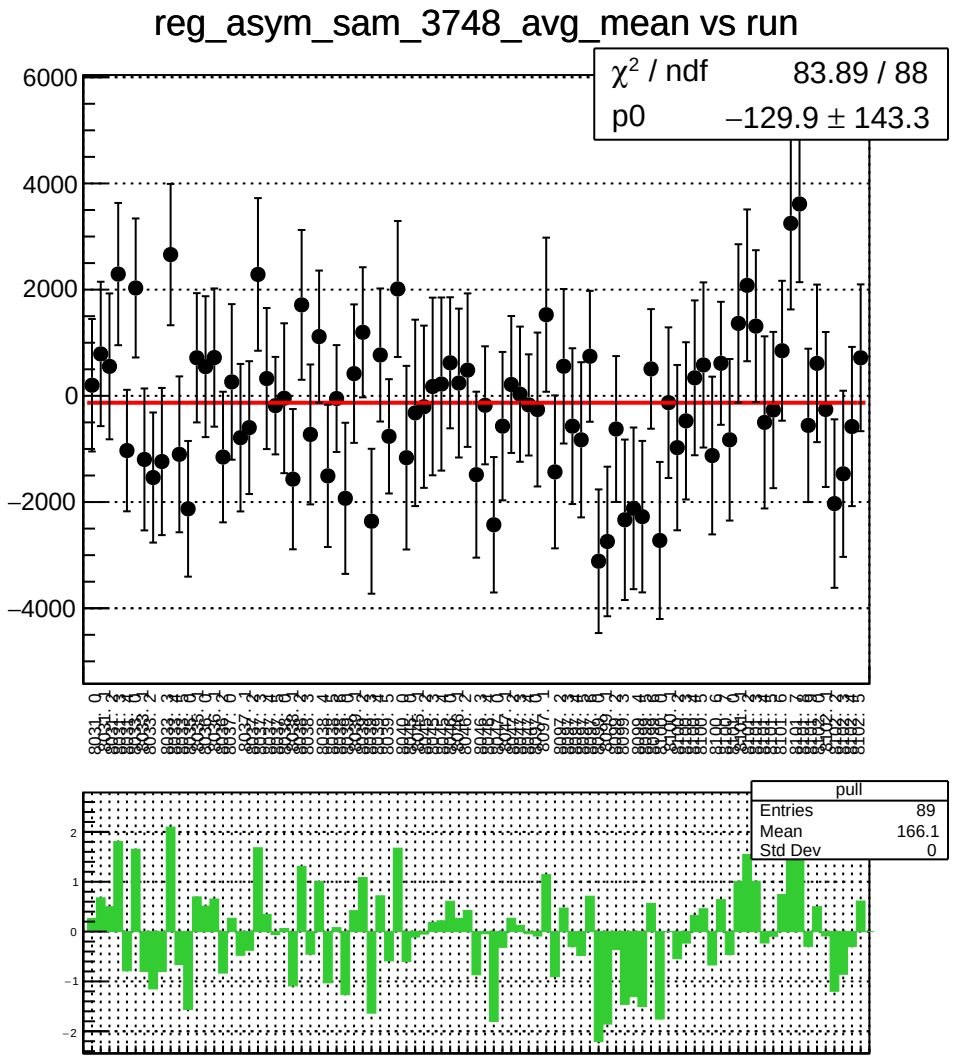

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.134e+04 / 88
p0 48.83 ± 0.03706
60
55
50
45
40

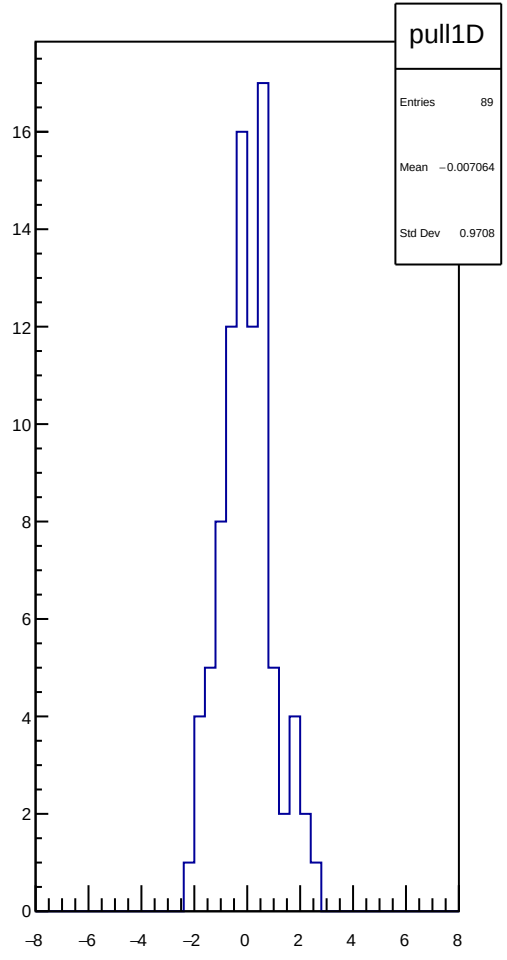

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.86 / 88
p0 −0.08865 ± 0.05241
pull
Entries 89
Mean 1417
Std Dev 0
pull1D
Entries 89
Mean −0.001931
Std Dev 0.8602

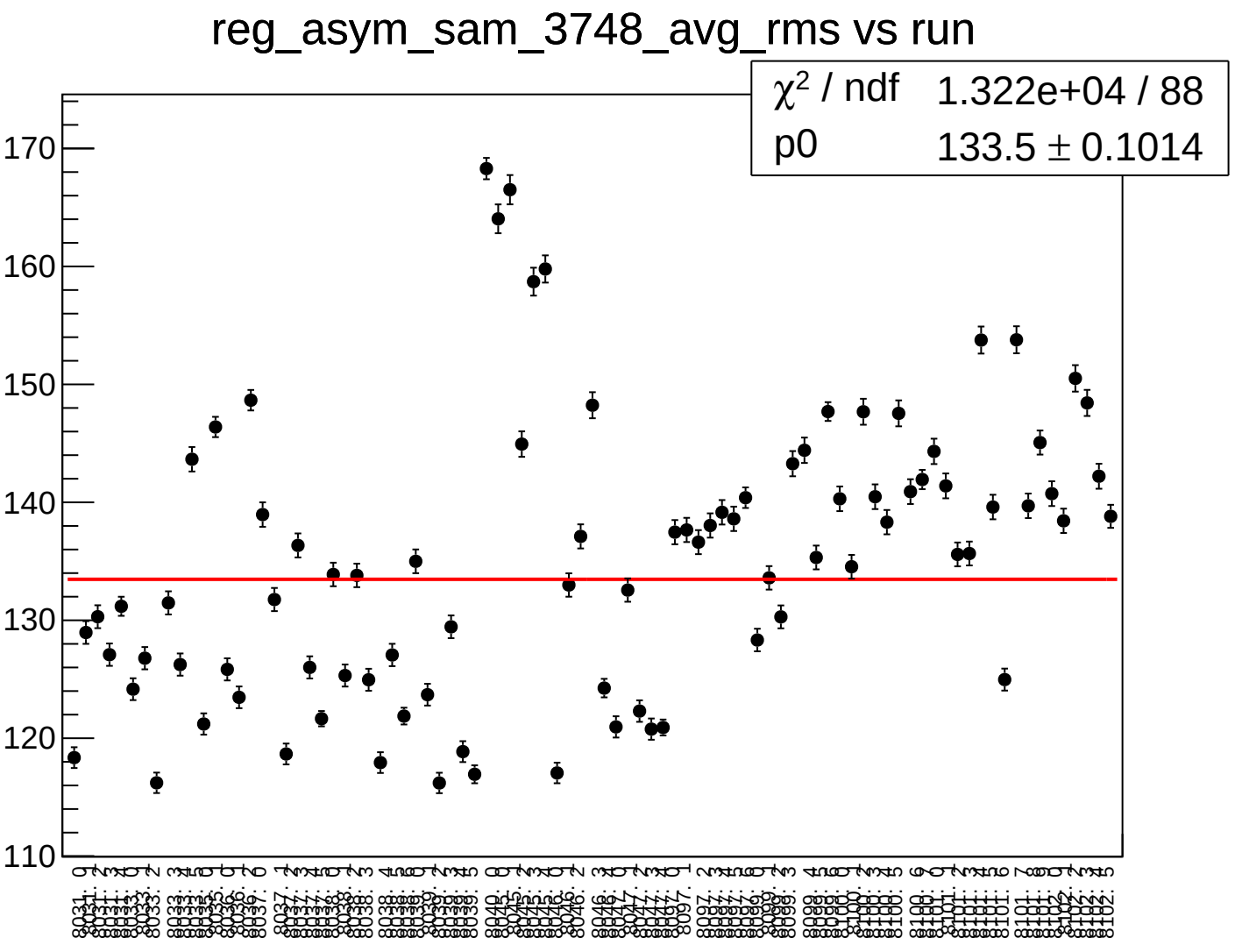

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.134e+04 / 88
p0 48.83 ± 0.03706
60
55
50
45
40

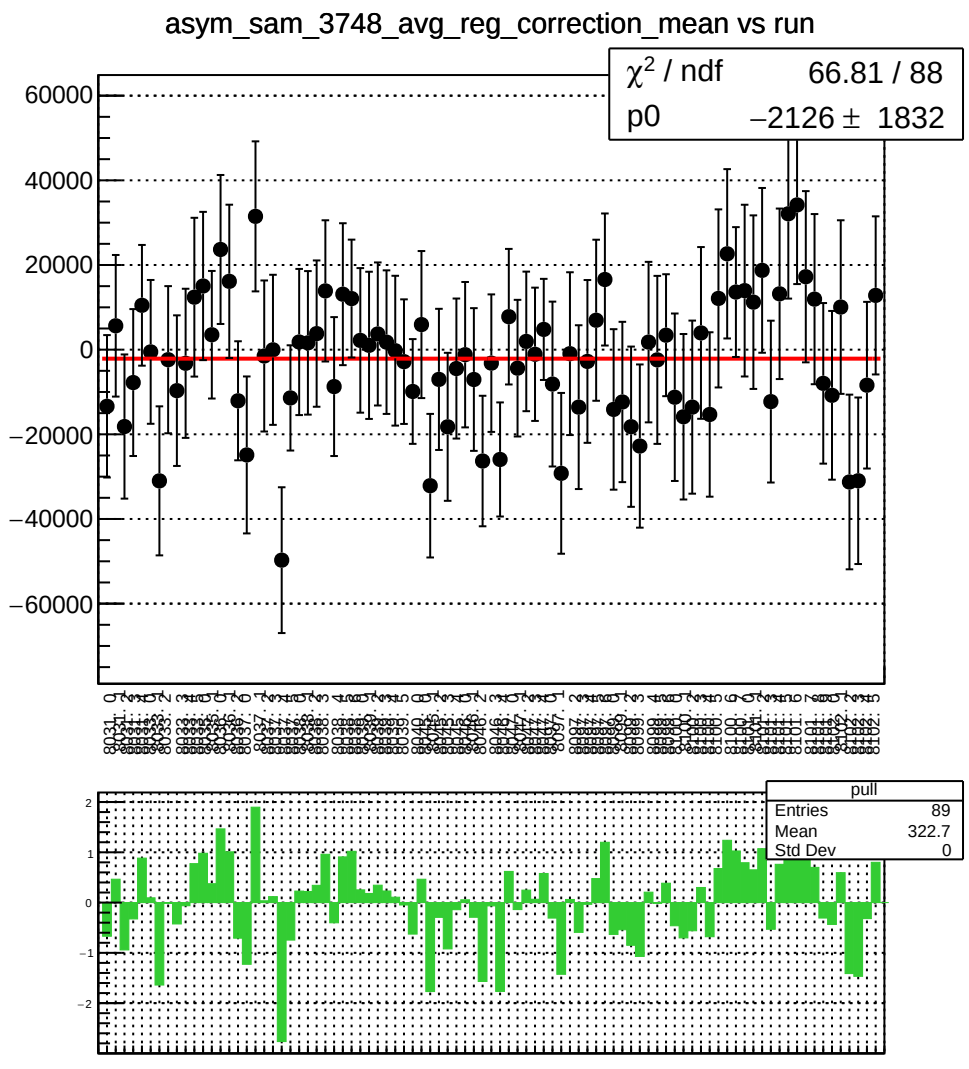

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 104.9 / 88
p0 −1.167e−13 ± 7.006e−14
pull
Entries 89
Mean 70.37
Std Dev 0
pull1D
Entries 89
Mean 0.03789
Std Dev 1.085

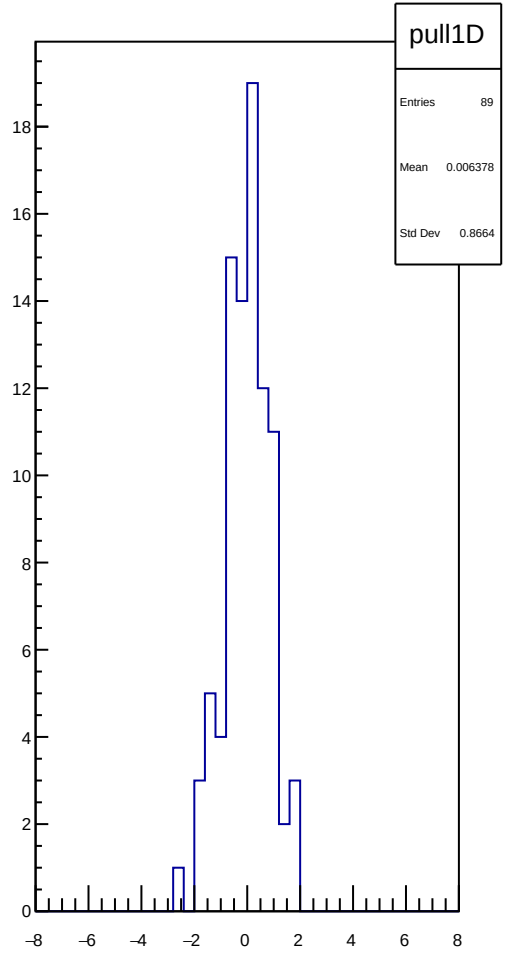

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.558e+05 / 88
p0 5.63e−11 ± 4.954e−14
0.25
0.2
0.15
0.1
0.05

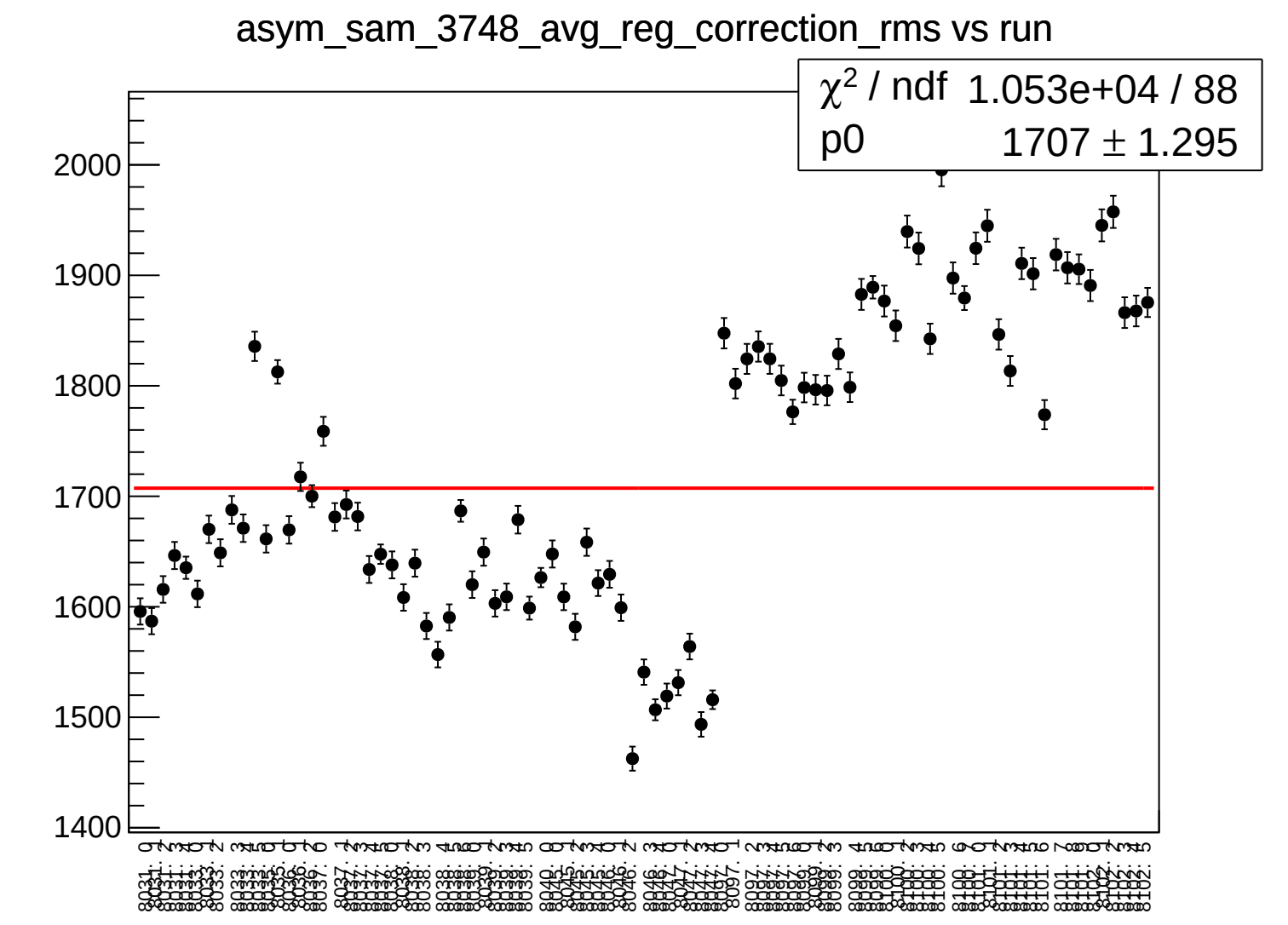

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 83.89 / 88
p0 −129.9 ± 143.3
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 166.1
Std Dev 0
2
1
0
−1
−2

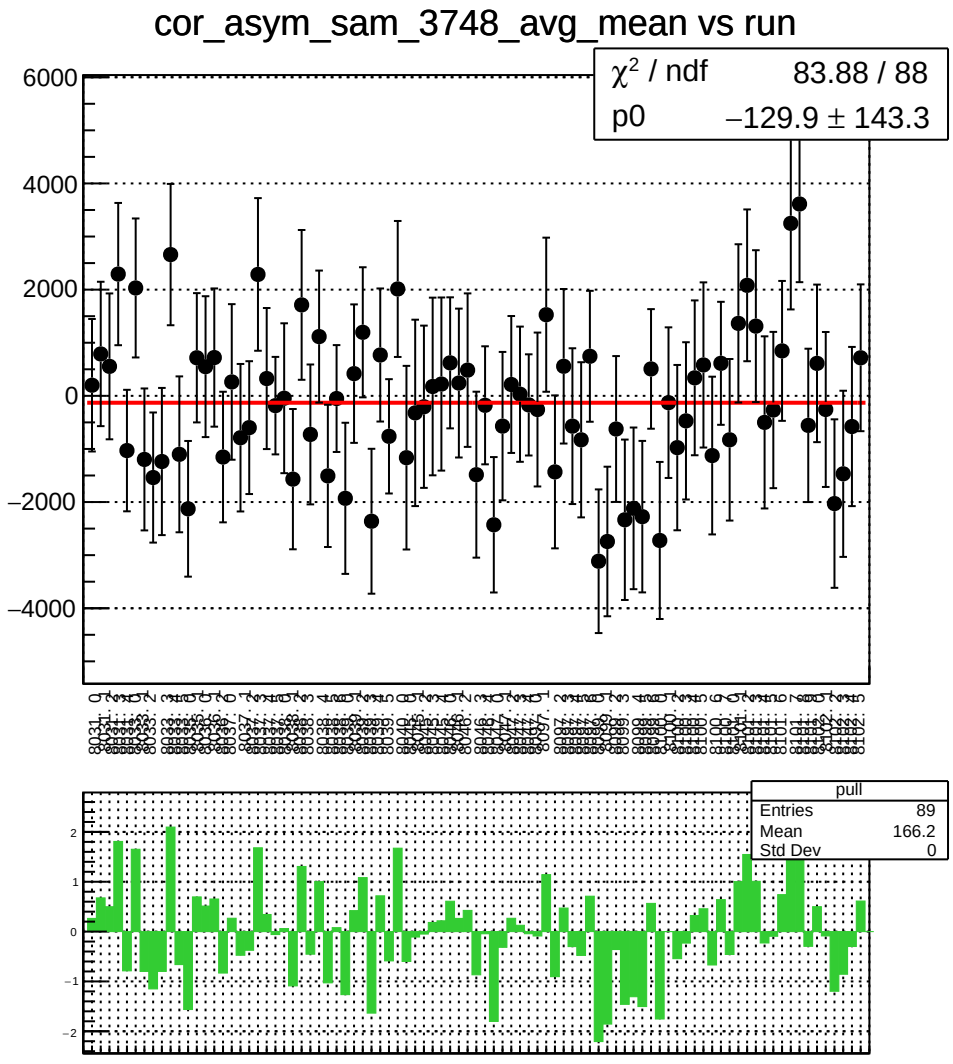

pull1D
Entries 89
Mean −0.007064
Std Dev 0.9708
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

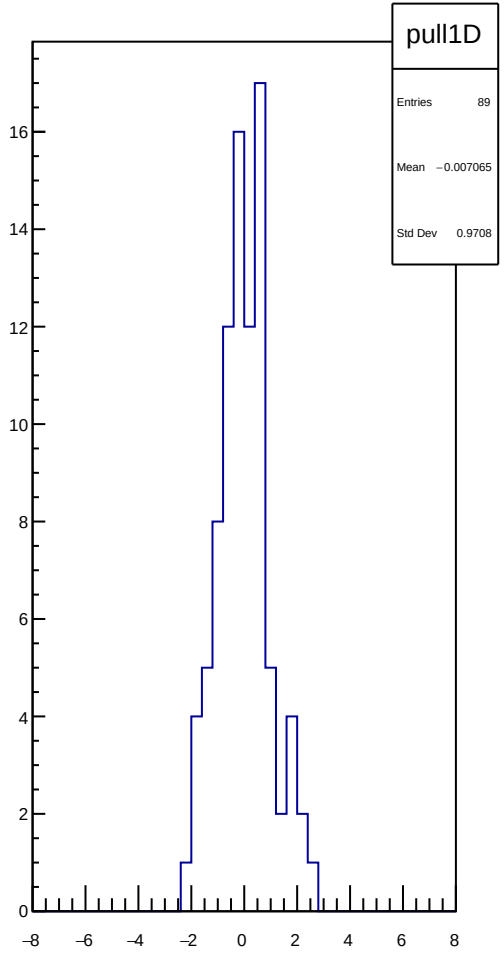

reg_asym_sam_3748_avg_rms vs run
χ² / ndf 1.322e+04 / 88
p0 133.5 ± 0.1014
170
160
150
140
130
120
110

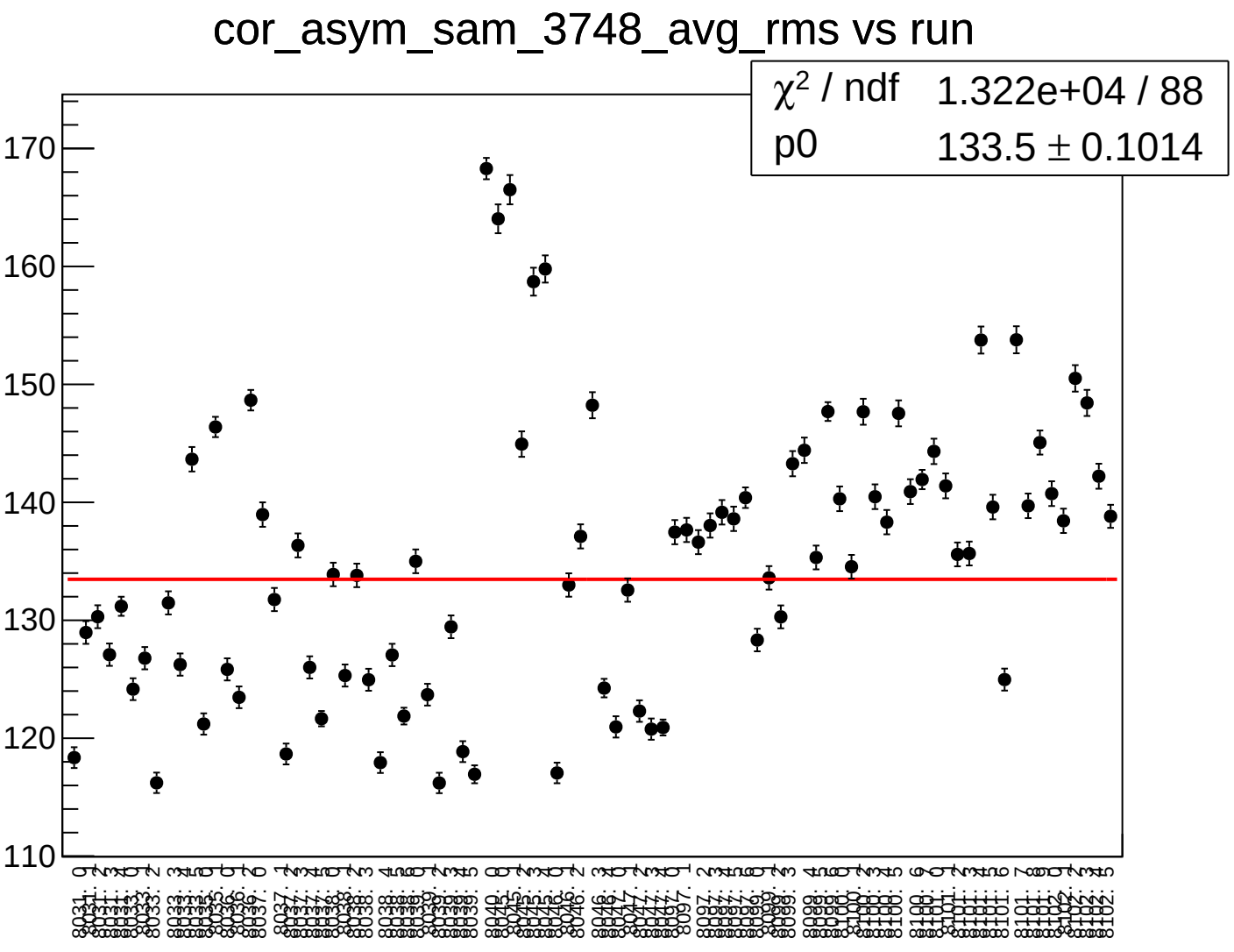

asym_sam_3748_avg_reg_correction_mean vs run
χ² / ndf 66.81 / 88
p0 −2126 ± 1832
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 322.7
Std Dev 0
2
1
0
−1
−2

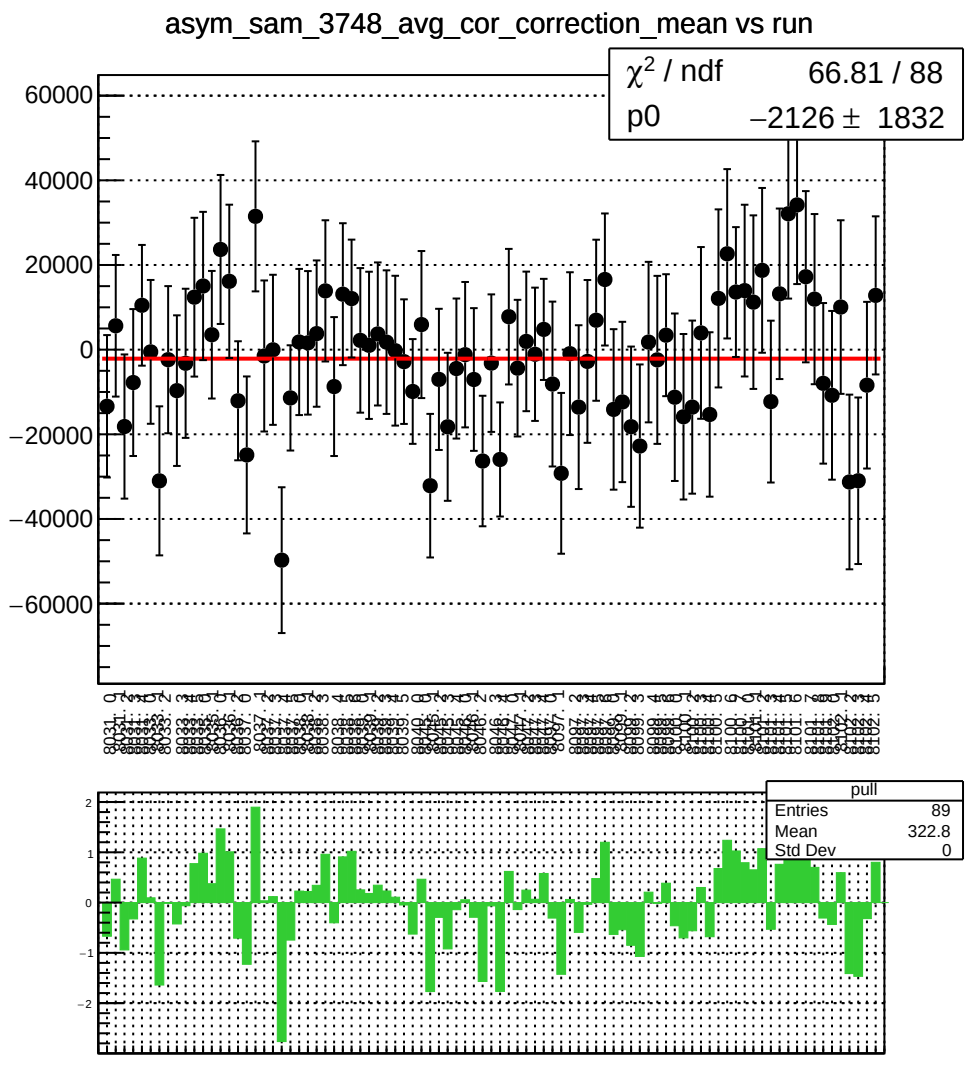

pull1D
Entries 89
Mean 0.006378
Std Dev 0.8664
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

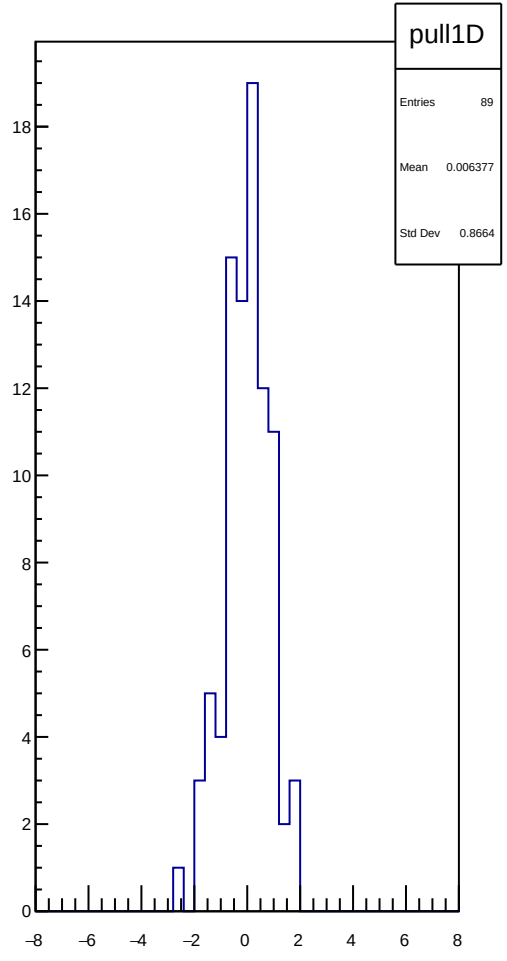

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 1.053e+04 / 88
p0 1707 ± 1.295
2000
1900
1800
1700
1600
1500
1400

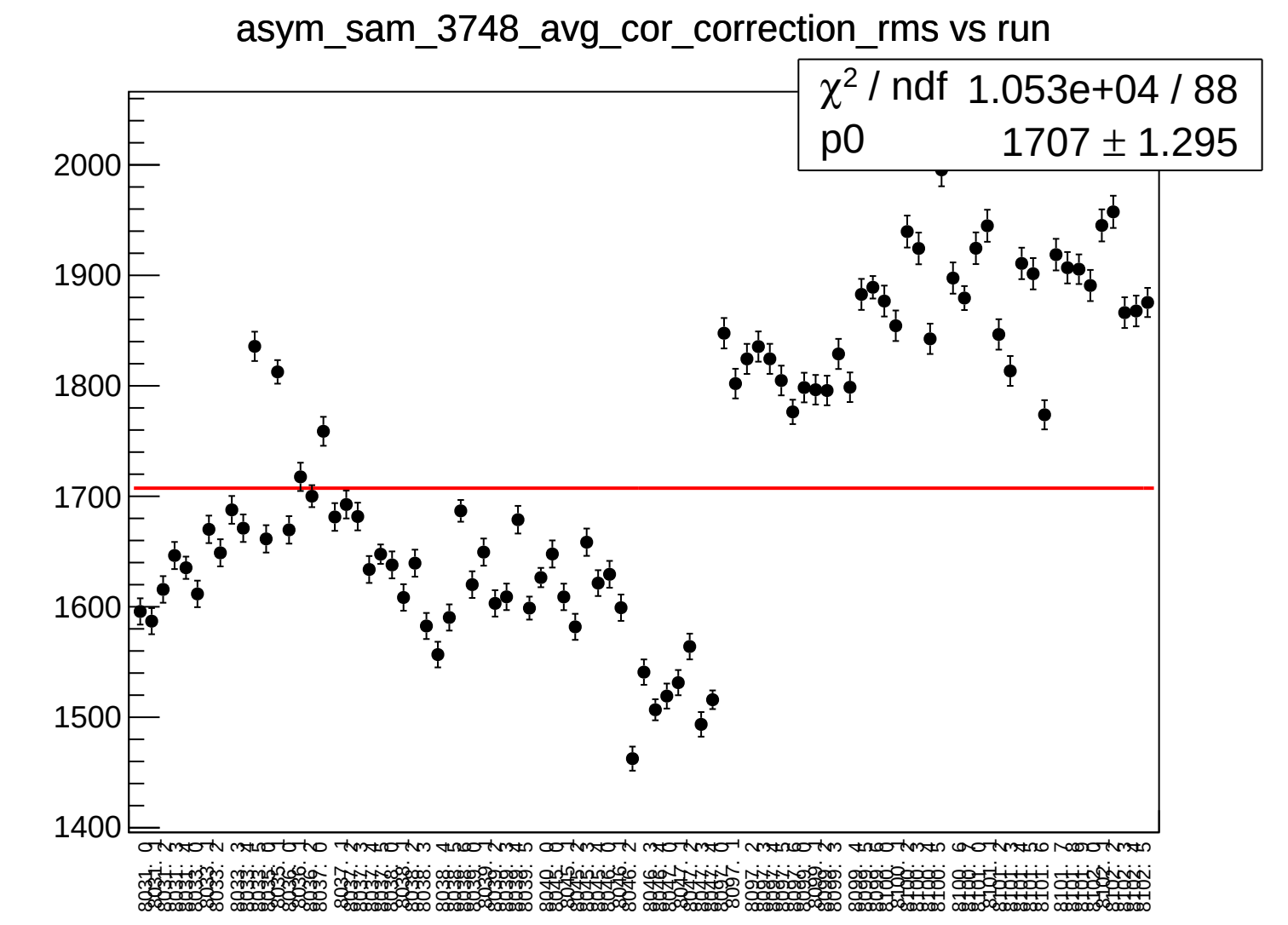

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 83.88 / 88
p0 −129.9 ± 143.3
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 166.2
Std Dev 0
2
1
0
−1
−2

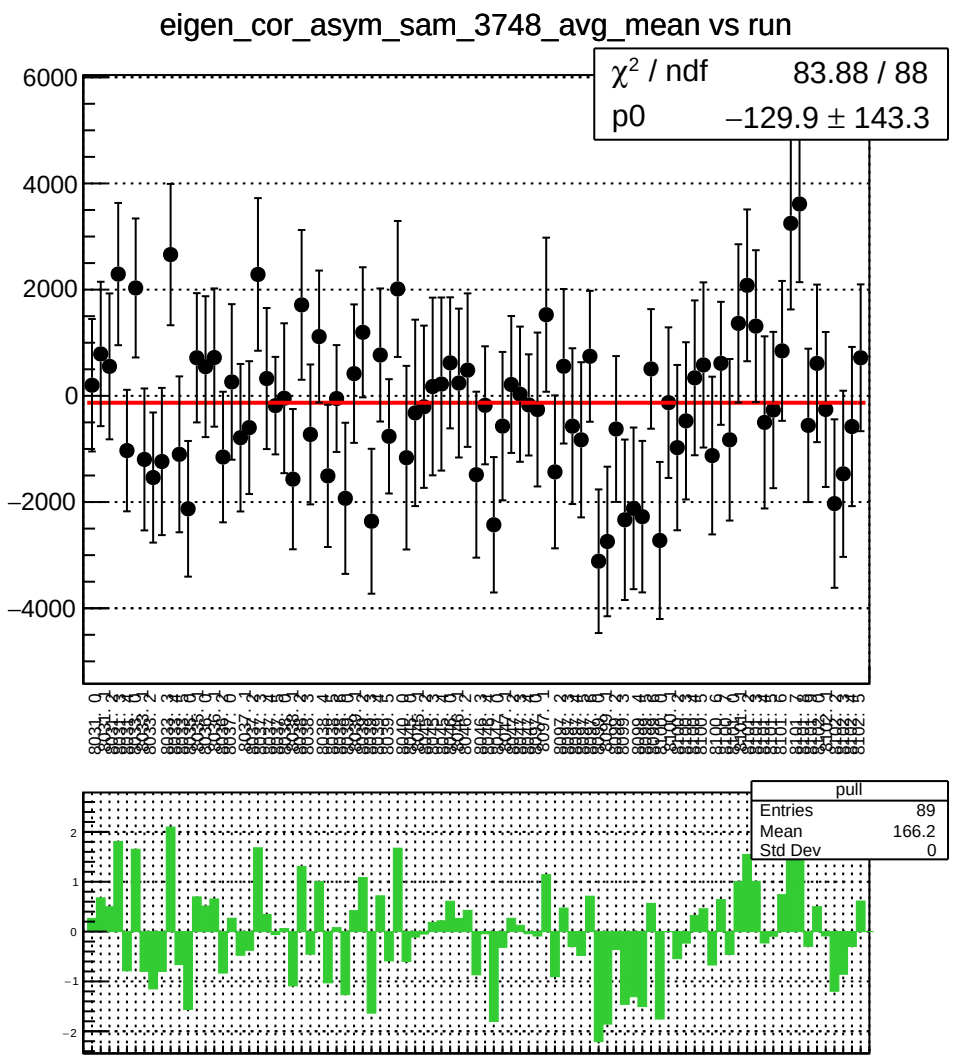

pull1D
Entries 89
Mean −0.007065
Std Dev 0.9708
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

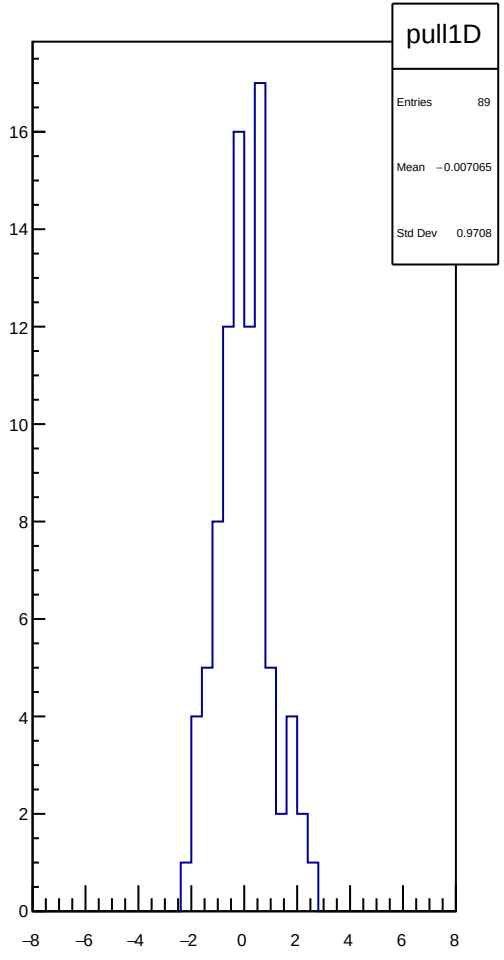

cor_asym_sam_3748_avg_rms vs run
χ² / ndf 1.322e+04 / 88
p0 133.5 ± 0.1014
170
160
150
140
130
120
110

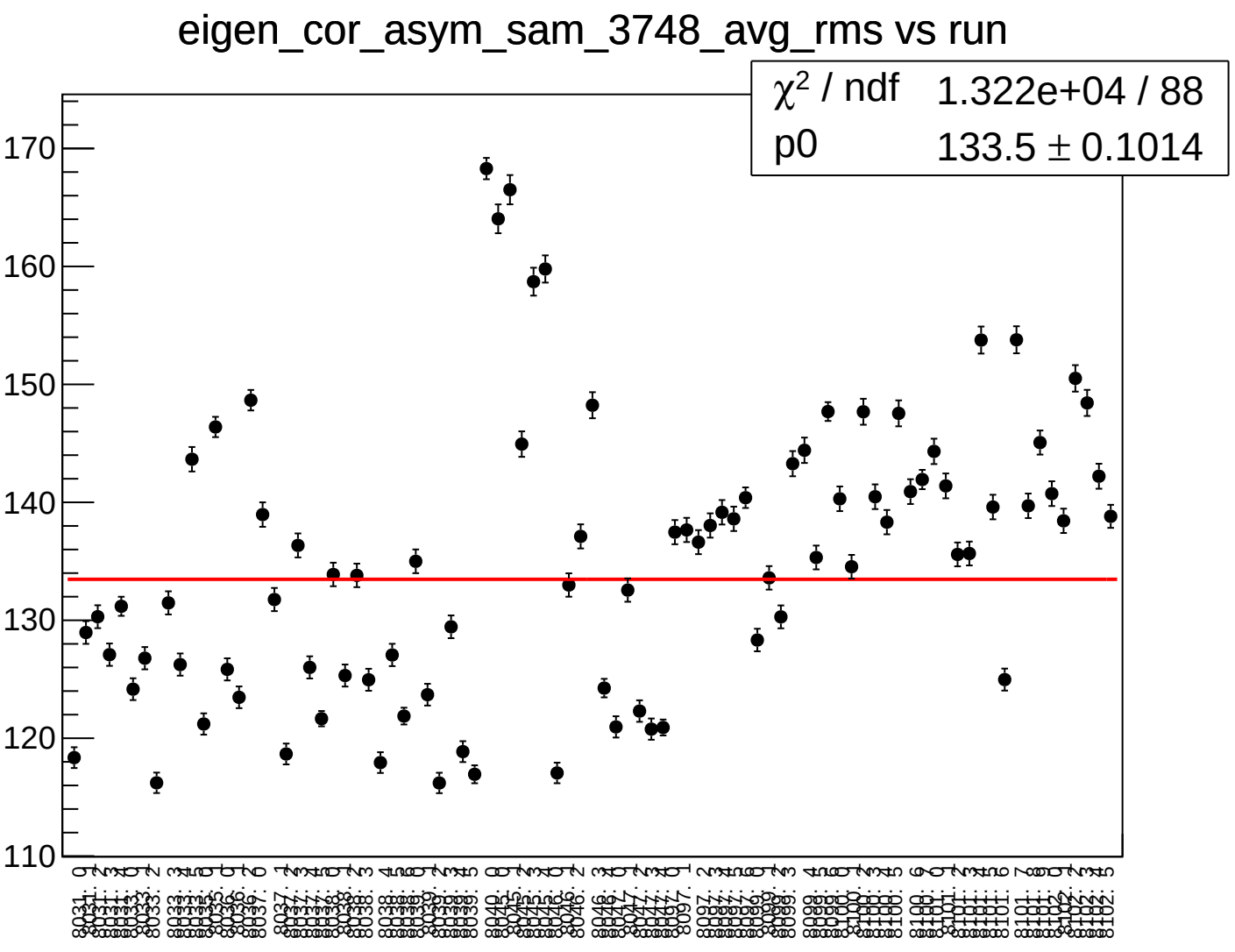

asym_sam_3748_avg_cor_correction_mean vs run
χ² / ndf 66.81 / 88
p0 −2126 ± 1832
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 322.8
Std Dev 0
2
1
0
−1
−2

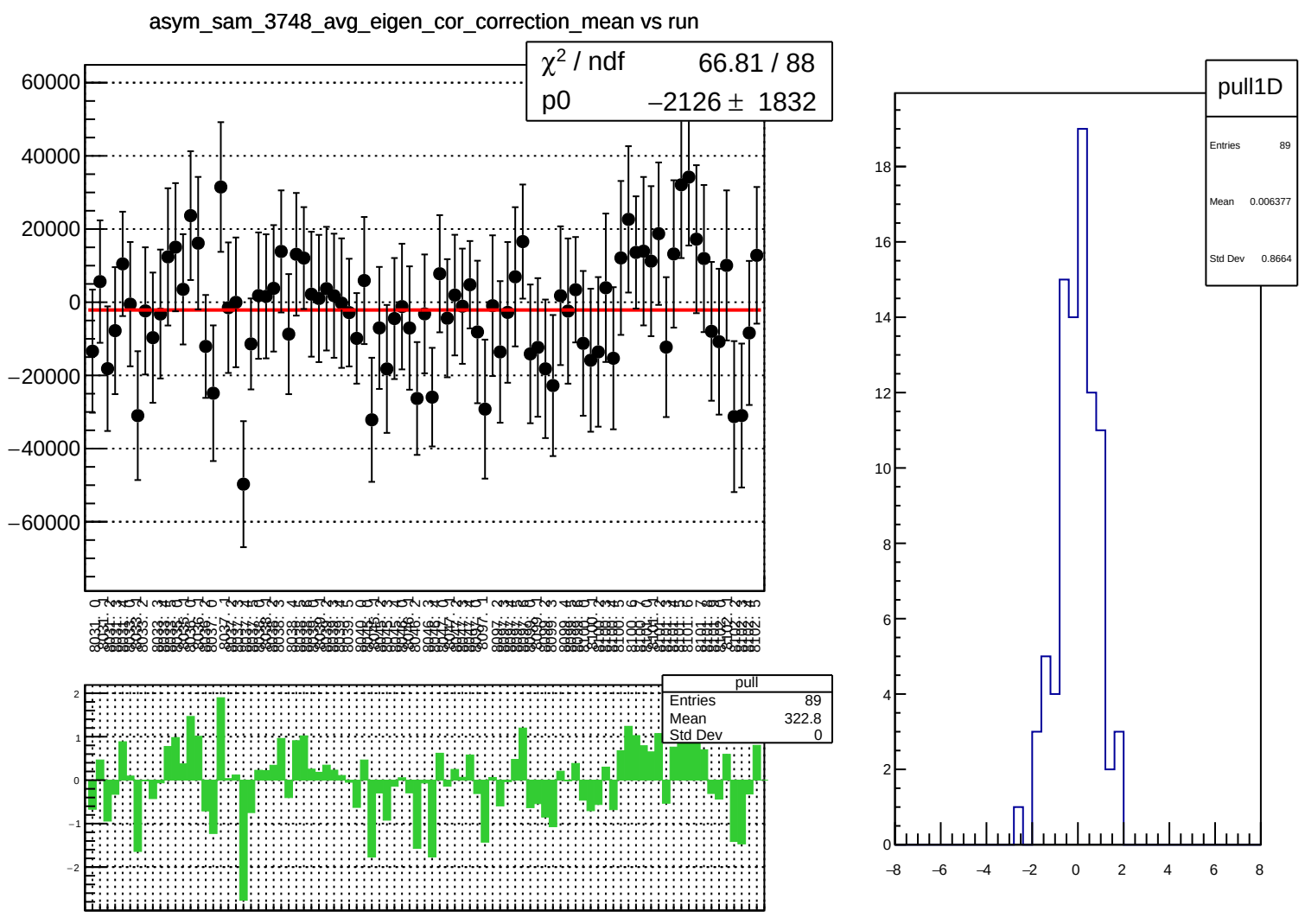

pull1D
Entries 89
Mean 0.006377
Std Dev 0.8664
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

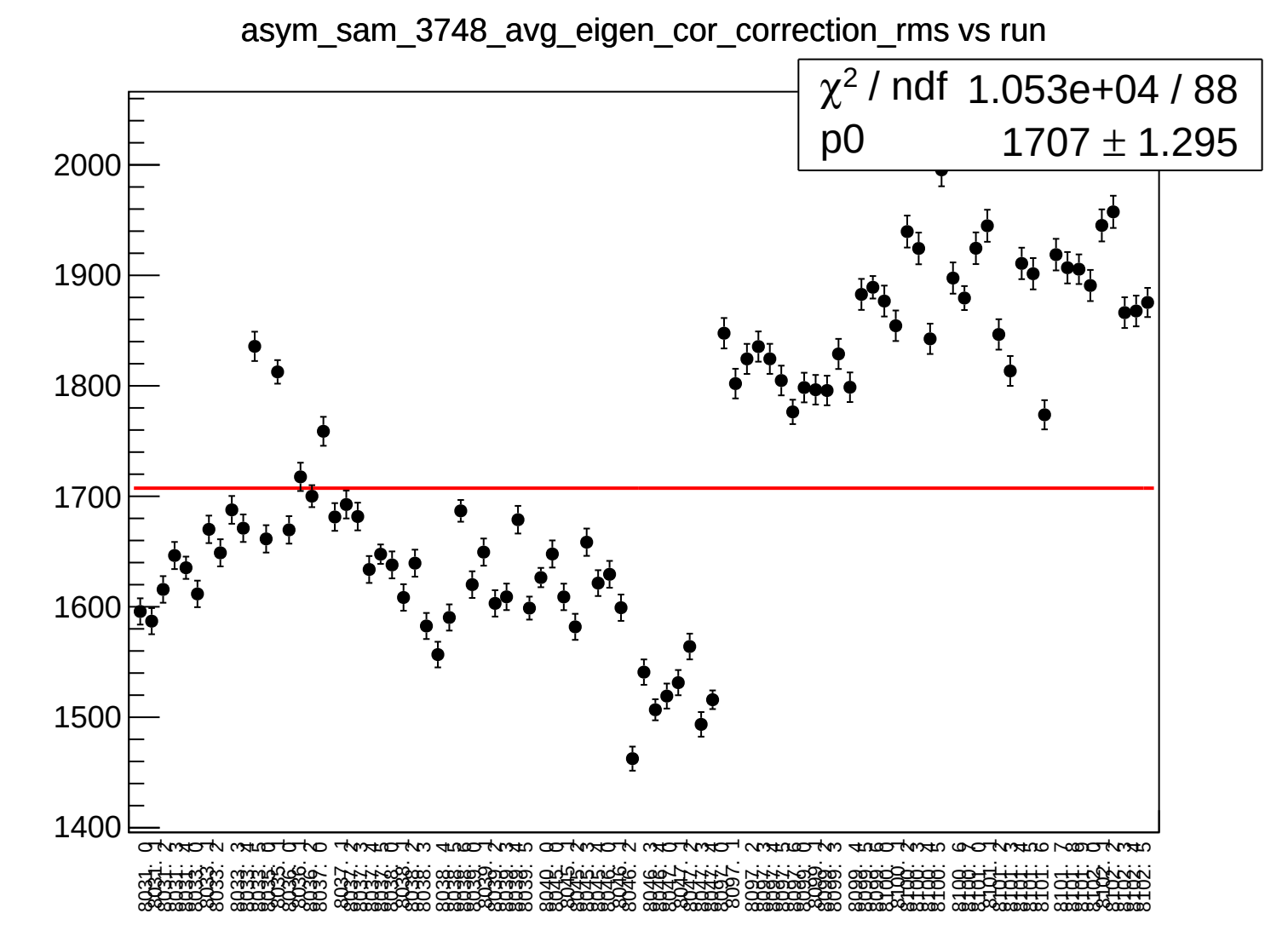

asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 1.053e+04 / 88
p0 1707 ± 1.295
2000
1900
1800
1700
1600
1500
1400

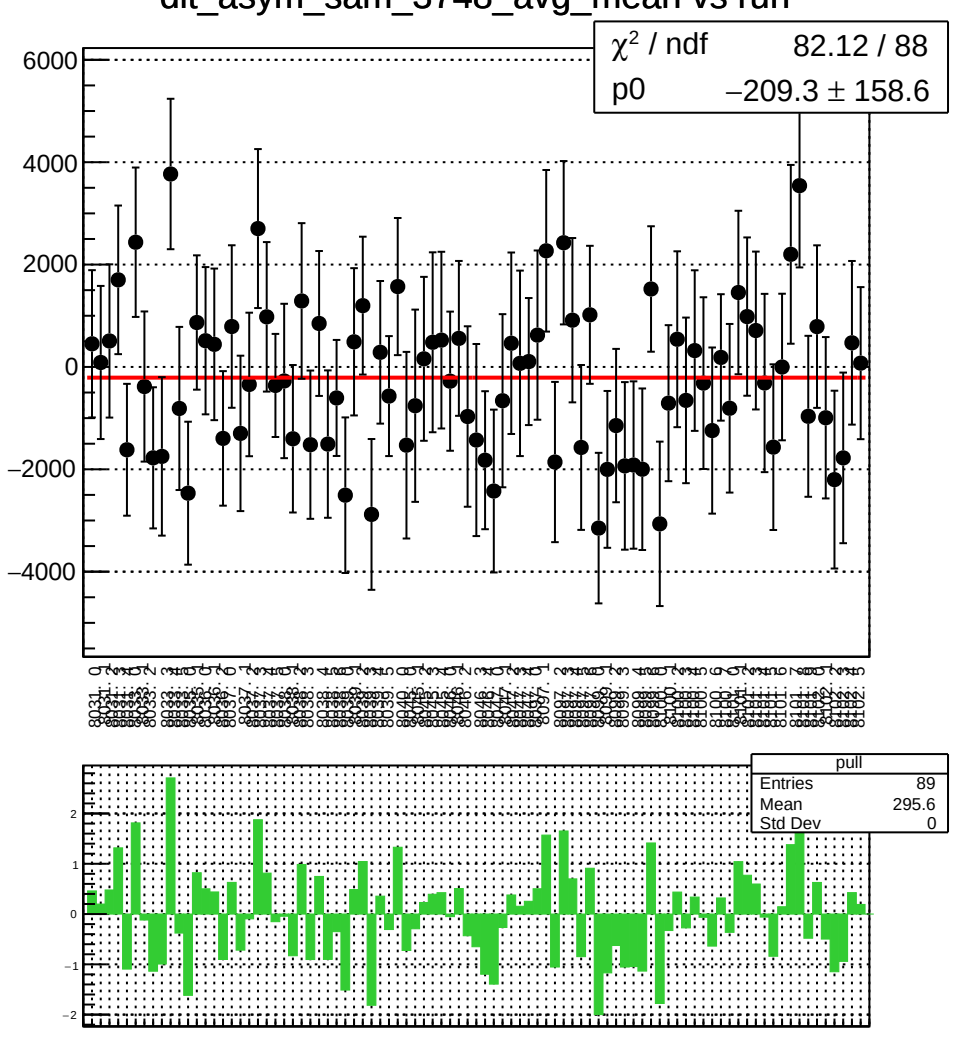

eigen_cor_asym_sam_3748_avg_mean vs run
χ² / ndf 83.88 / 88
p0 −129.9 ± 143.3
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 166.2
Std Dev 0
2
1
0
−1
−2

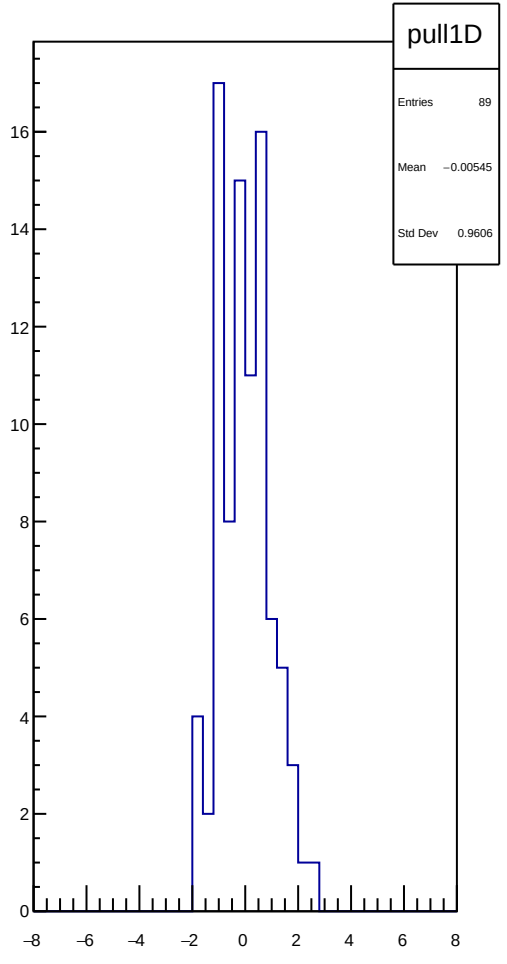

pull1D
Entries 89
Mean −0.007065
Std Dev 0.9708
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

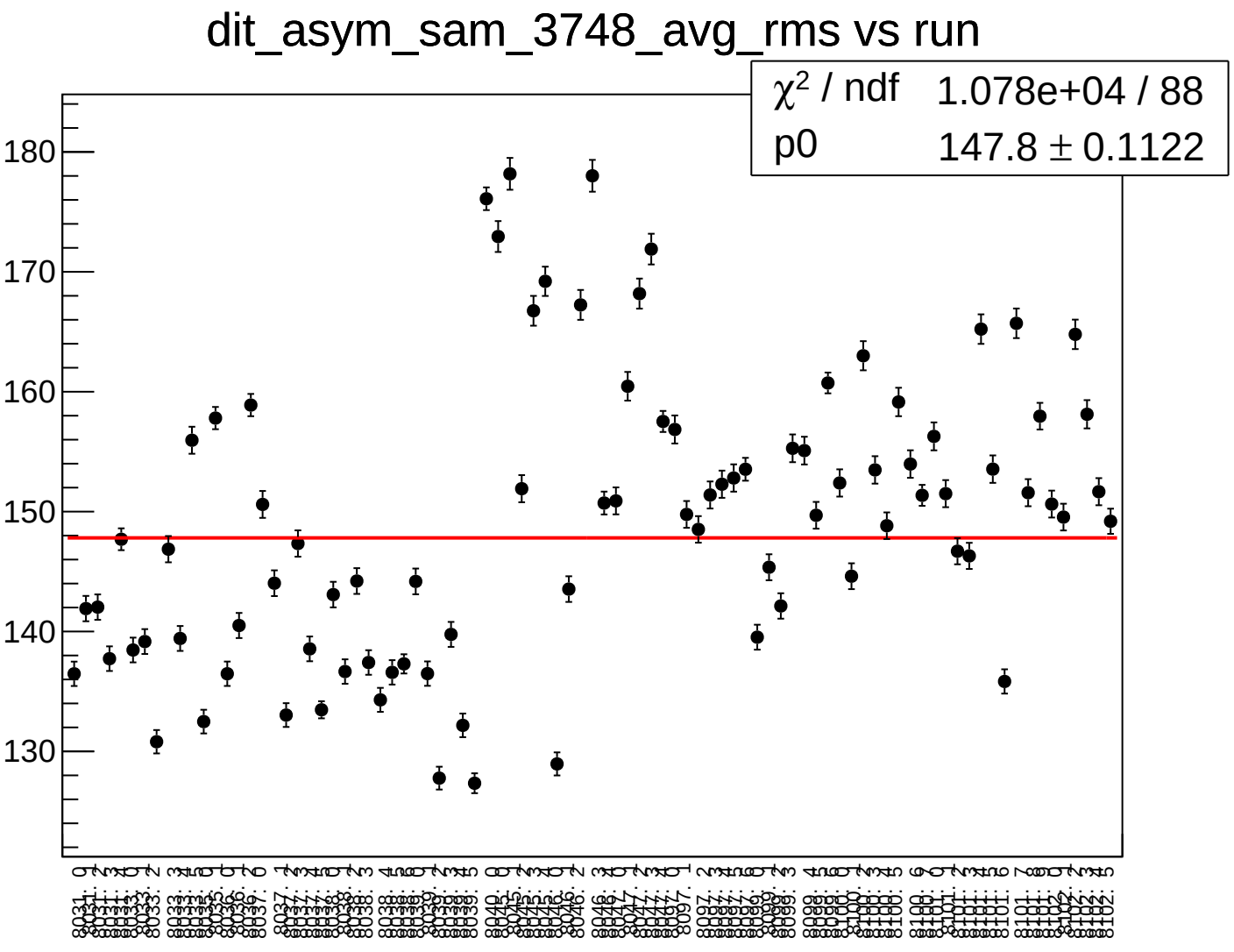

eigen_cor_asym_sam_3748_avg_rms vs run
χ² / ndf 1.322e+04 / 88
p0 133.5 ± 0.1014
170
160
150
140
130
120
110

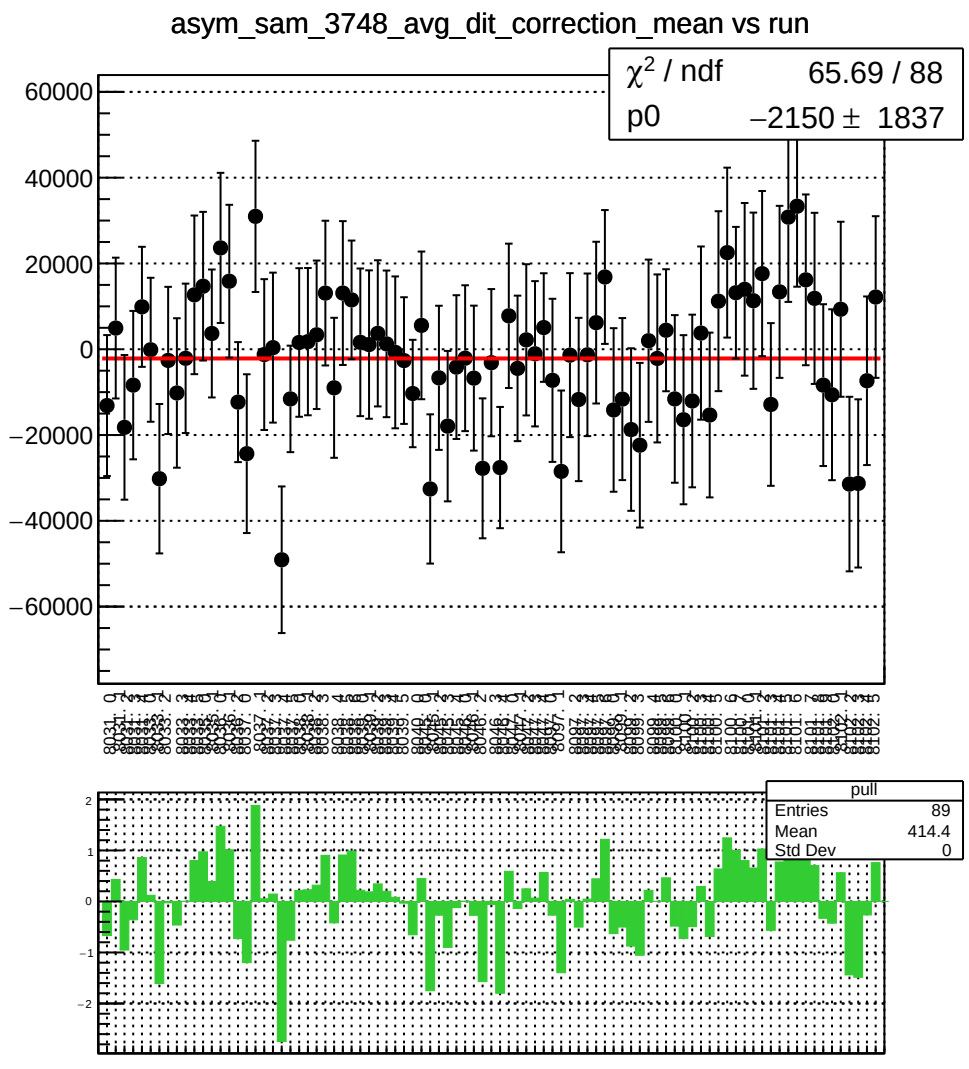

asym_sam_3748_avg_eigen_cor_correction_mean vs run
χ² / ndf 66.81 / 88
p0 −2126 ± 1832
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 322.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.006377
Std Dev 0.8664
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

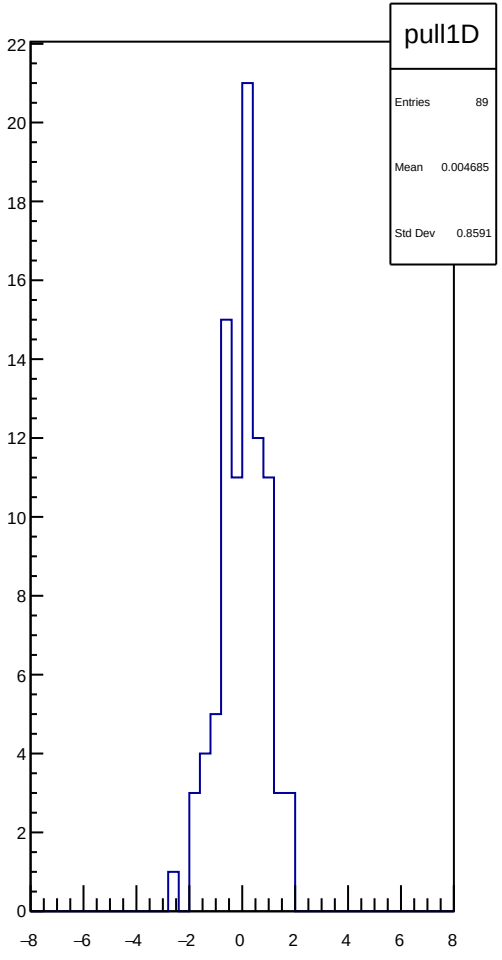

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.053e+04 / 88
p0 1707 ± 1.295
2000
1900
1800
1700
1600
1500
1400

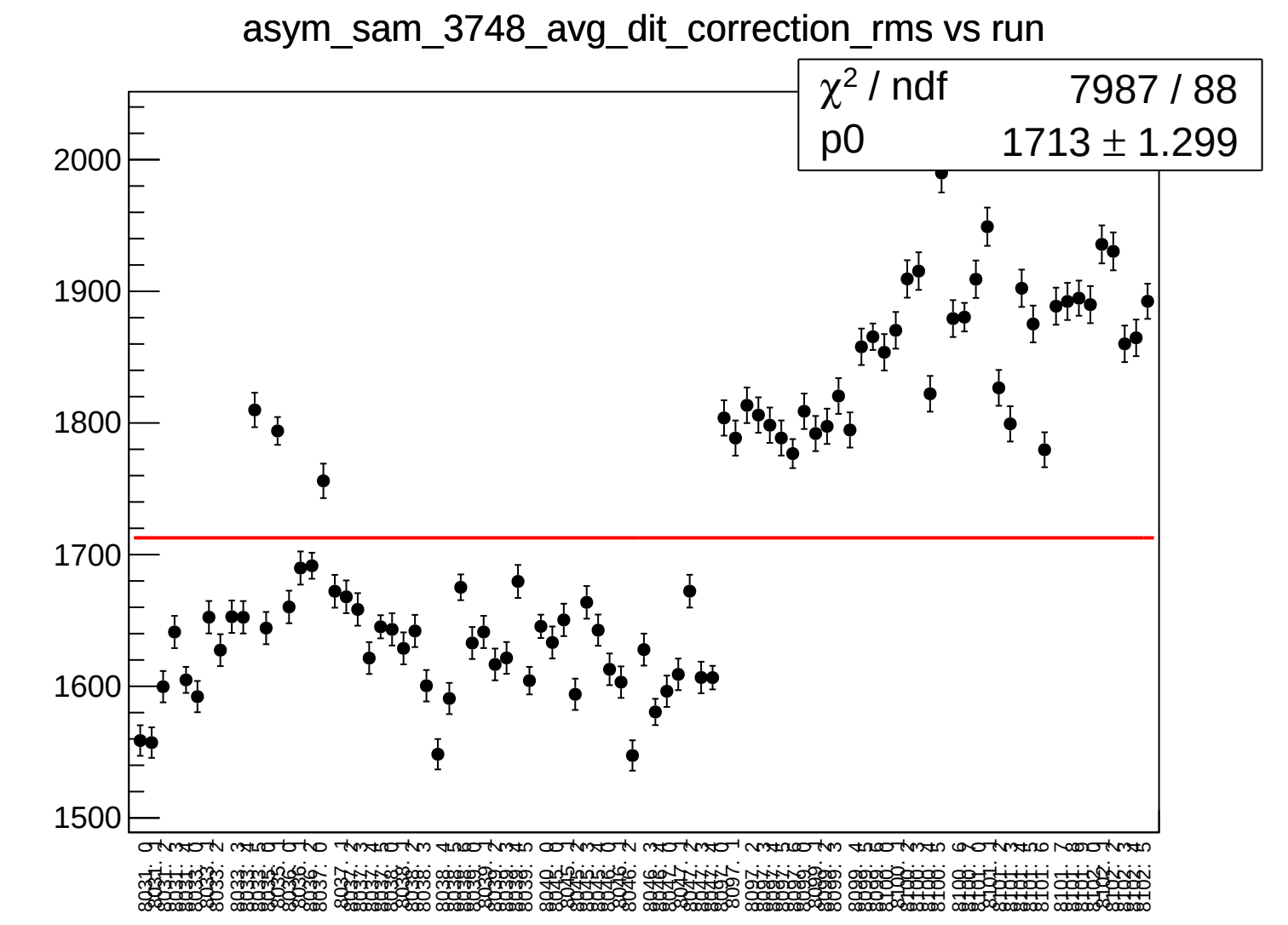

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 82.12 / 88
p0 −209.3 ± 158.6
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 295.6
Std Dev 0
2
1
0
−1
−2

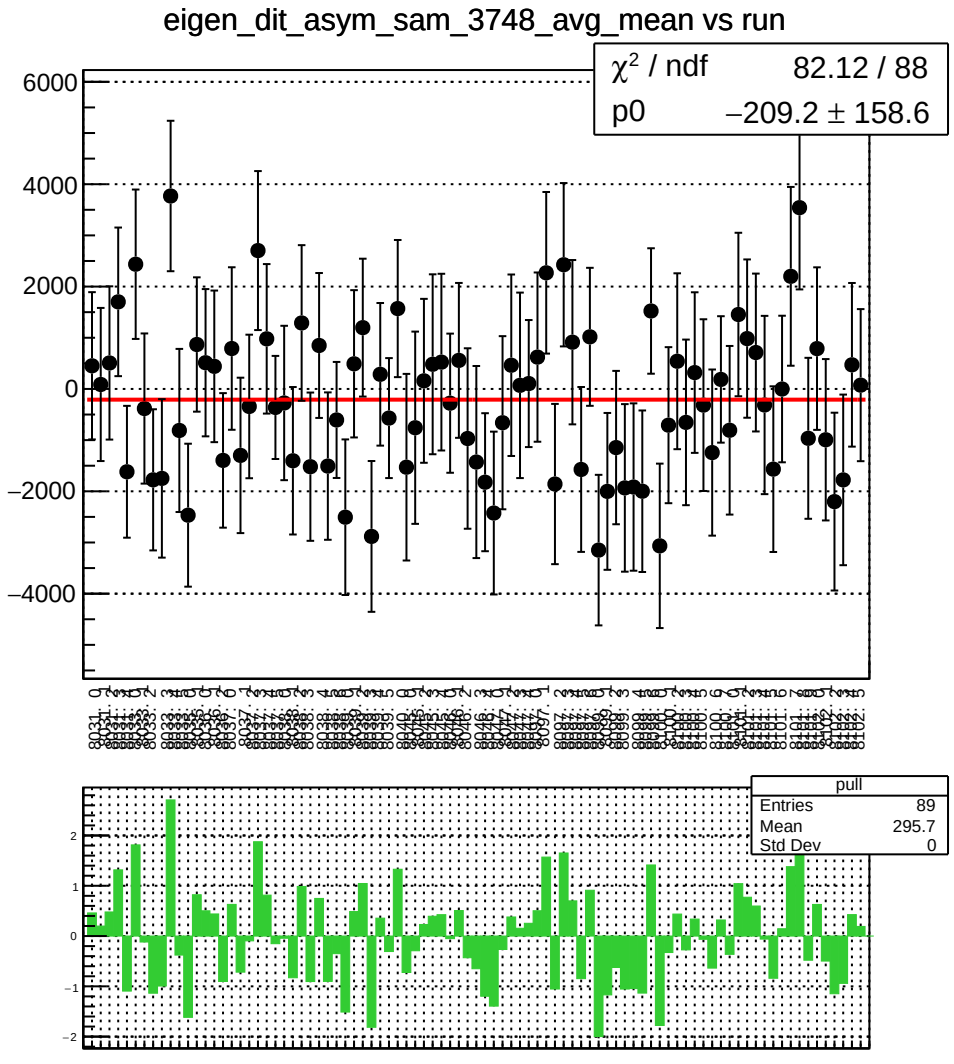

pull1D
Entries 89
Mean −0.00545
Std Dev 0.9606
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

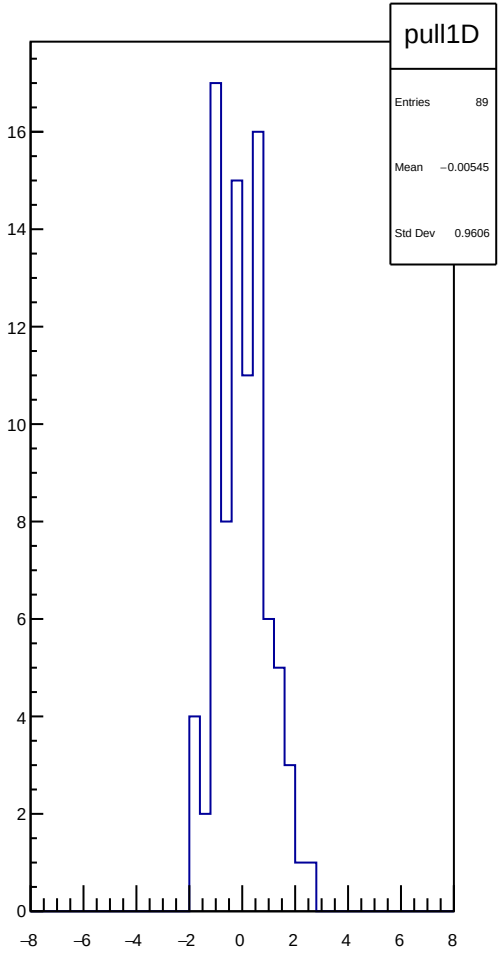

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 1.078e+04 / 88
p0 147.8 ± 0.1122
180
170
160
150
140
130

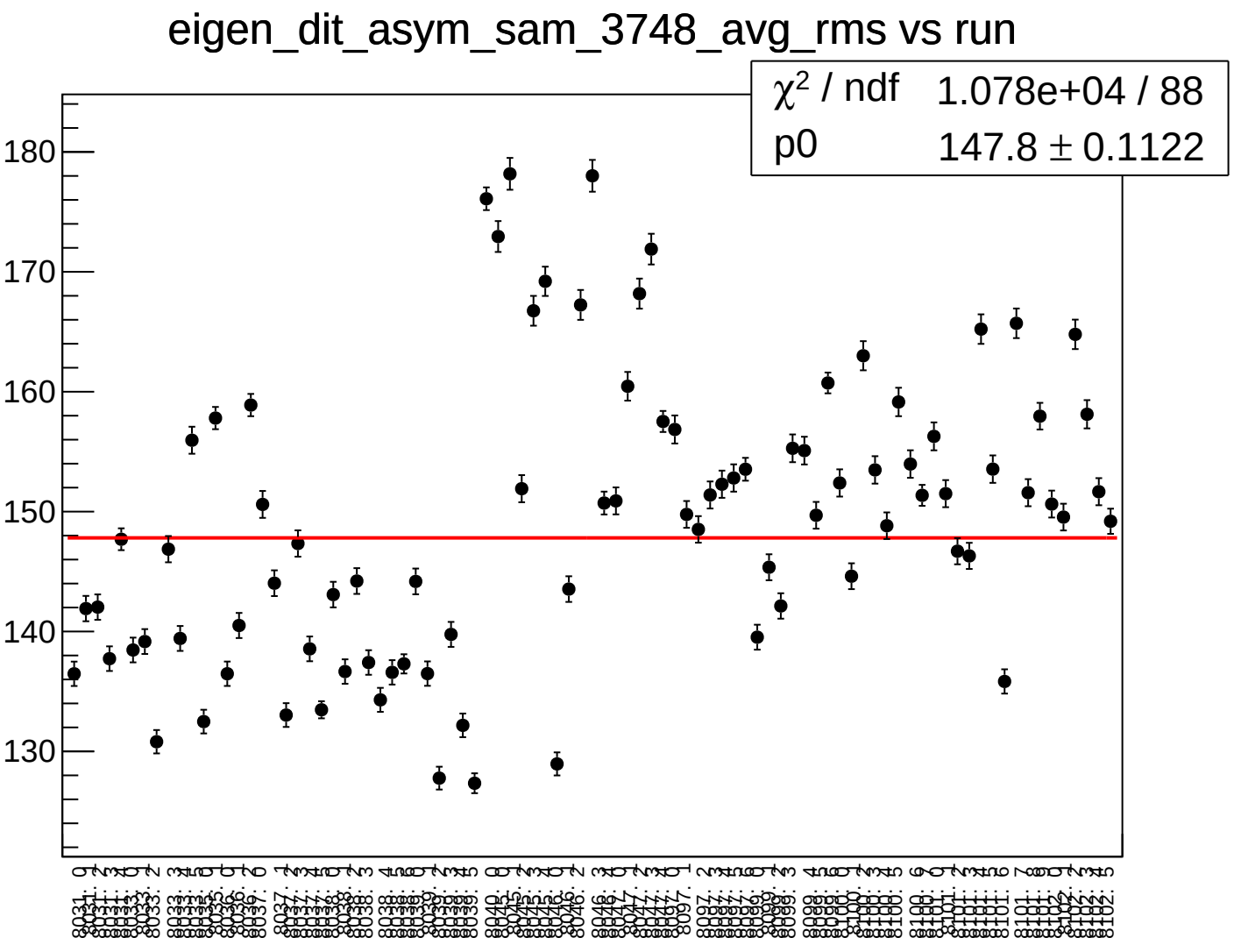

asym_sam_3748_avg_dit_correction_mean vs run
χ² / ndf 65.69 / 88
p0 −2150 ± 1837
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 414.4
Std Dev 0
2
1
0
−1
−2

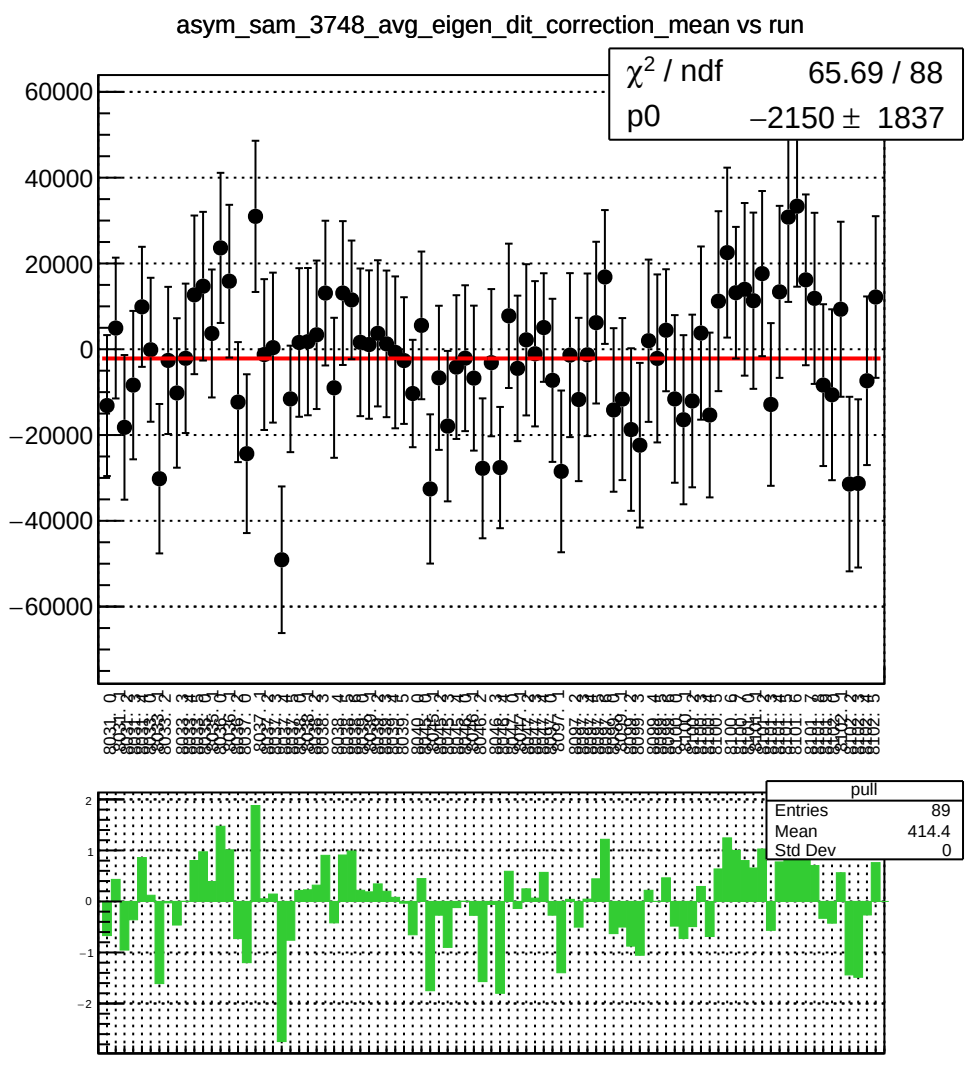

pull1D
Entries 89
Mean 0.004685
Std Dev 0.8591
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

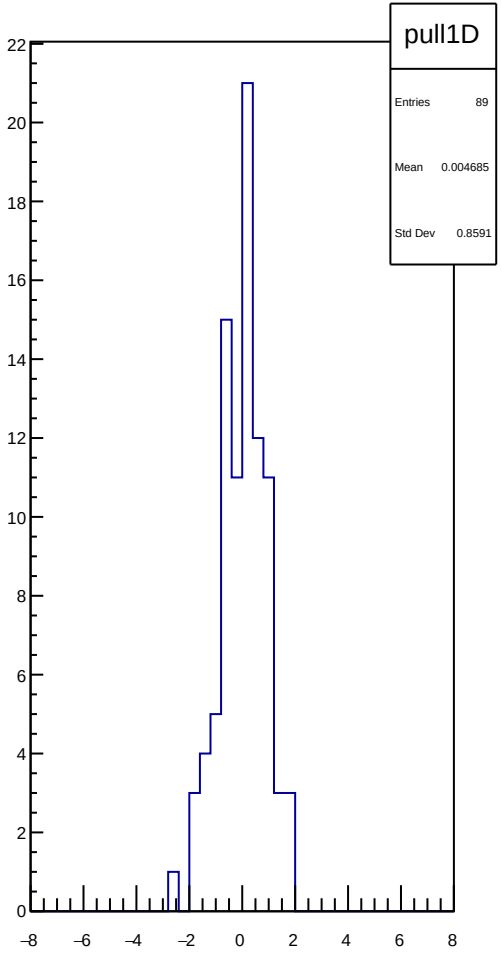

asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 7987 / 88
p0 1713 ± 1.299
2000
1900
1800
1700
1600
1500

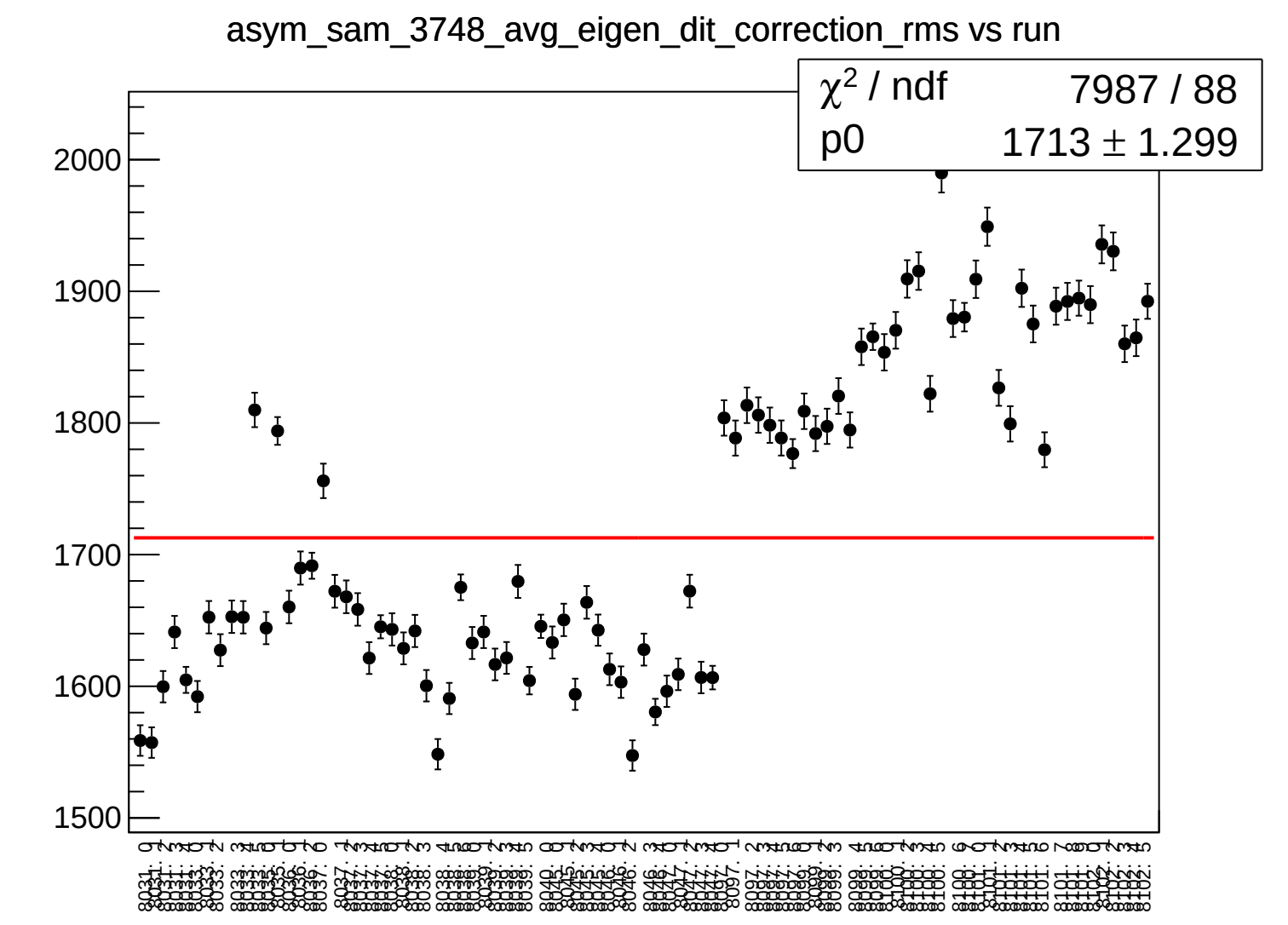

eigen_dit_asym_sam_3748_avg_mean vs run
χ² / ndf 82.12 / 88
p0 −209.2 ± 158.6
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 295.7
Std Dev 0
2
1
0
−1
−2

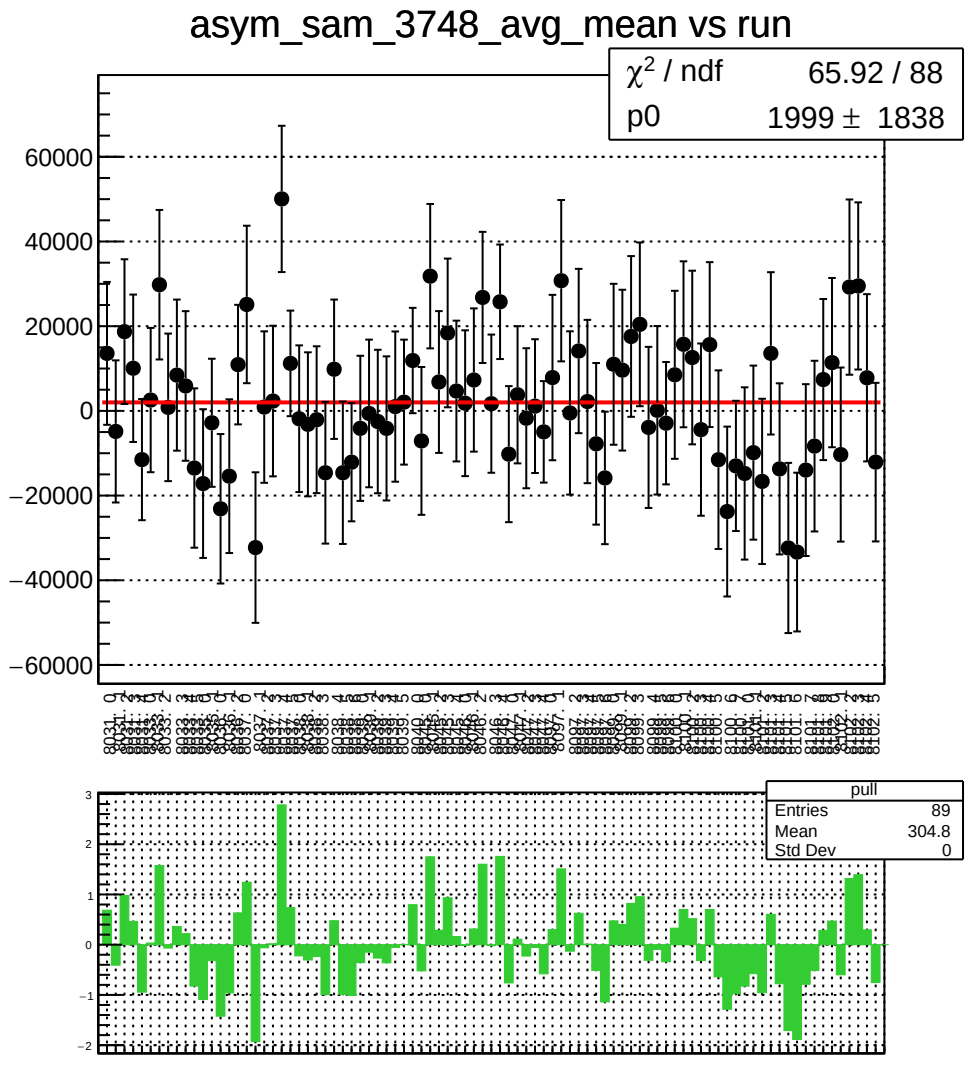

pull1D
Entries 89
Mean −0.00545
Std Dev 0.9606
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

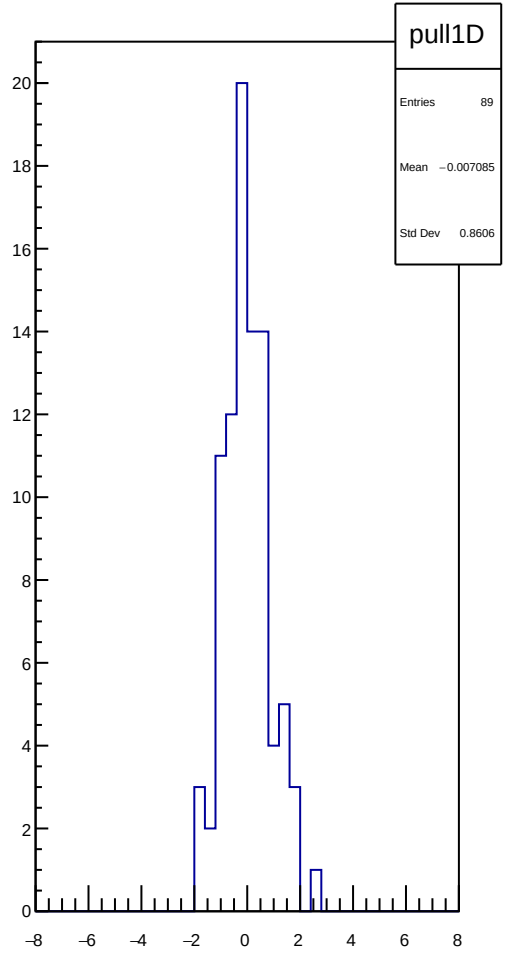

eigen_dit_asym_sam_3748_avg_rms vs run
χ² / ndf 1.078e+04 / 88
p0 147.8 ± 0.1122
180
170
160
150
140
130

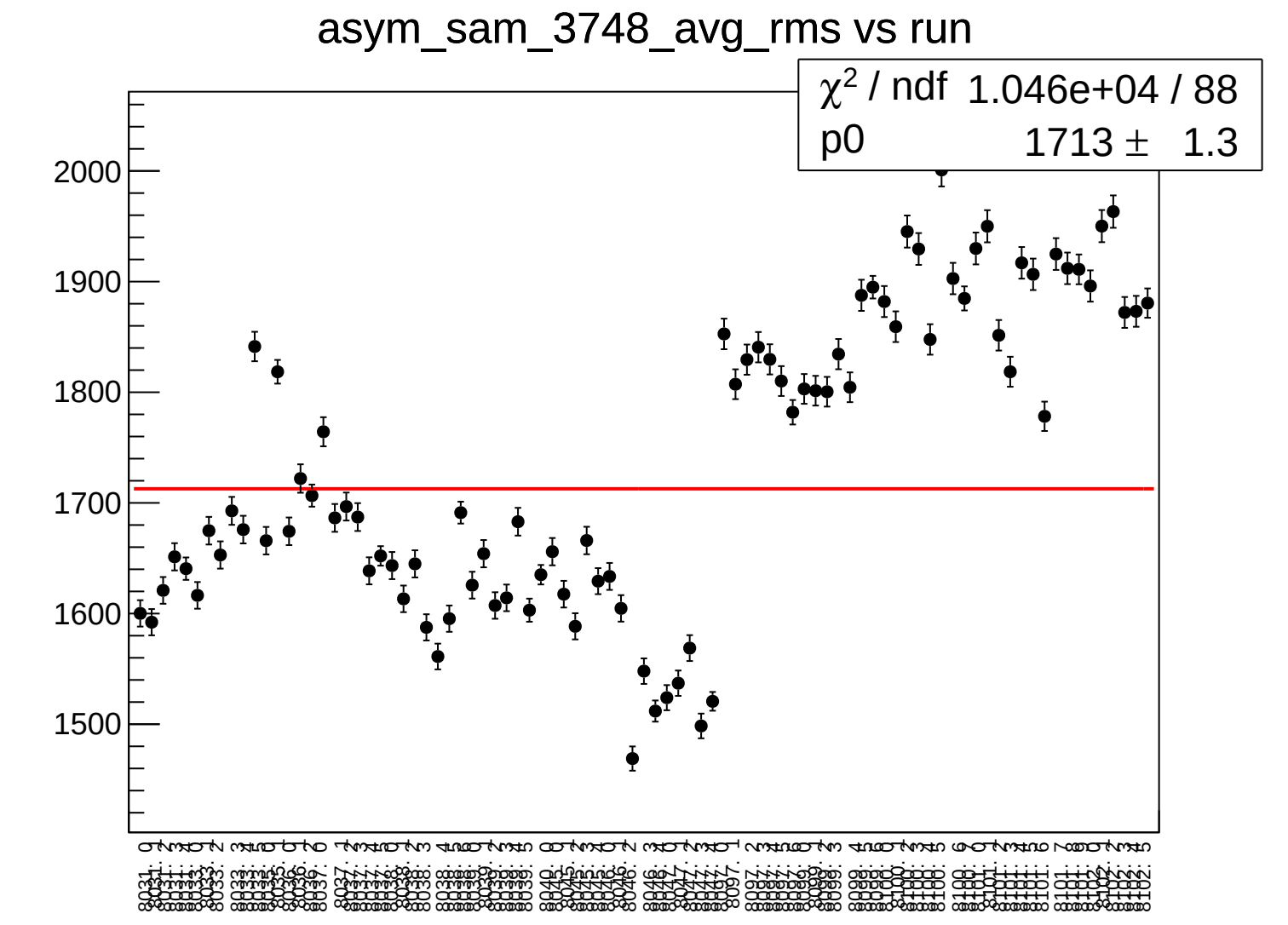

asym_sam_3748_avg_eigen_dit_correction_mean vs run
χ² / ndf 65.69 / 88
p0 −2150 ± 1837
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 414.4
Std Dev 0
2
1
0
−1
−2

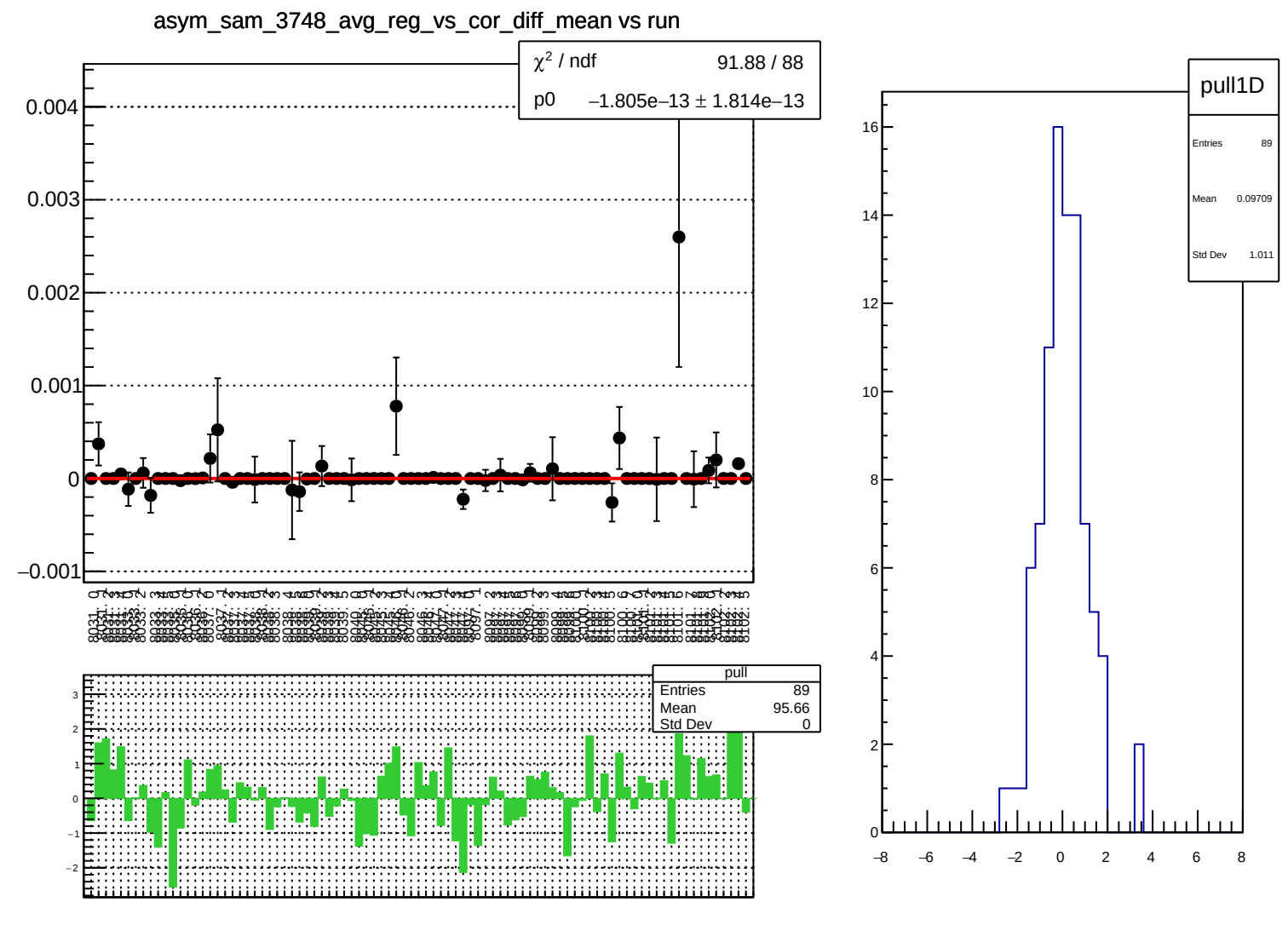

pull1D
Entries 89
Mean 0.004685
Std Dev 0.8591
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

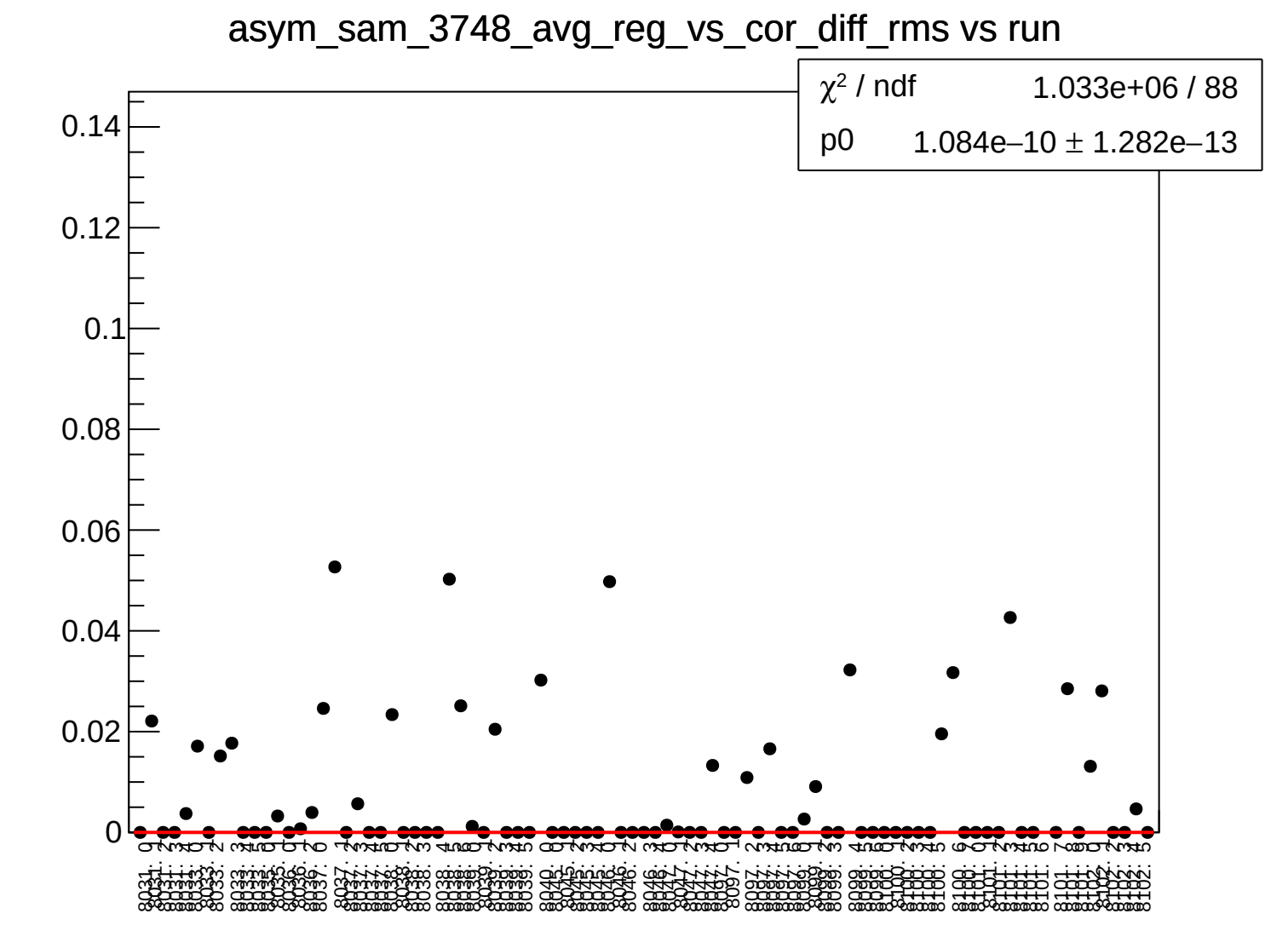

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 7987 / 88
p0 1713 ± 1.299
2000
1900
1800
1700
1600
1500

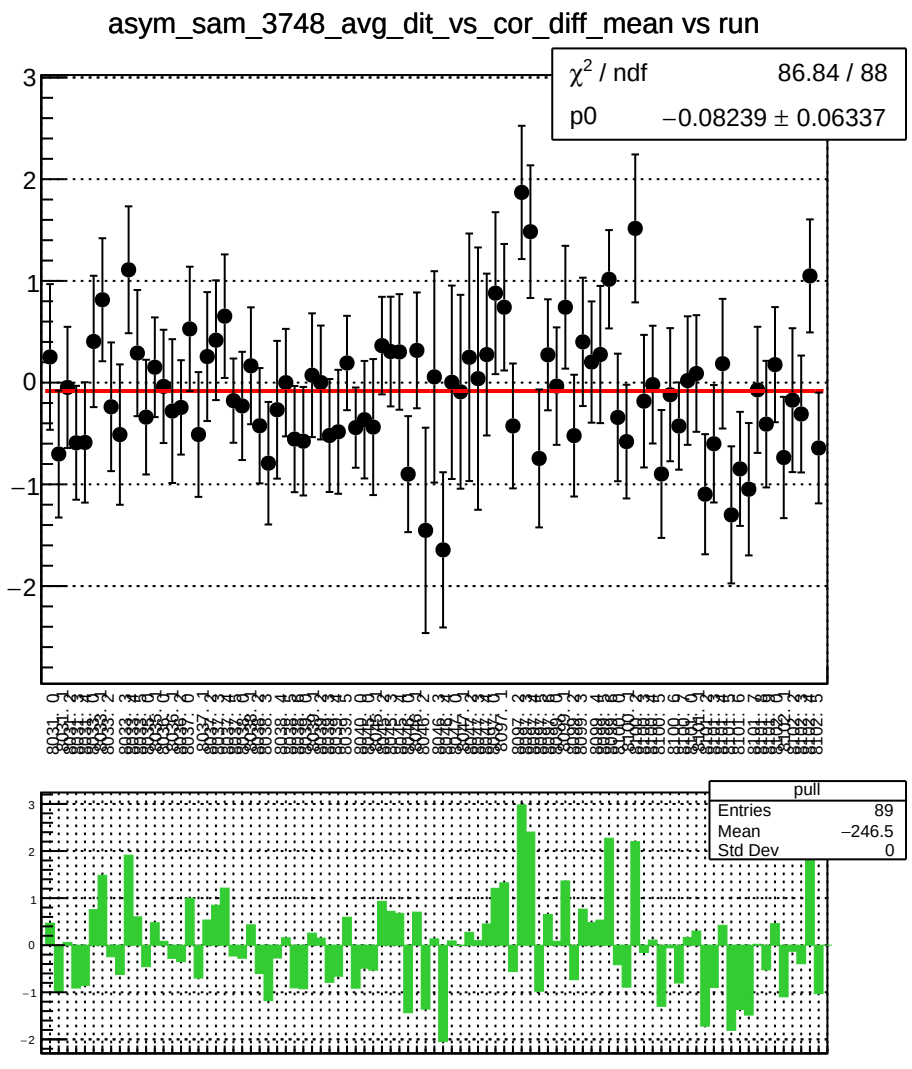

asym_sam_3748_avg_mean vs run
χ² / ndf 65.92 / 88
p0 1999 ± 1838
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 304.8
Std Dev 0
3
2
1
0
−1
−2

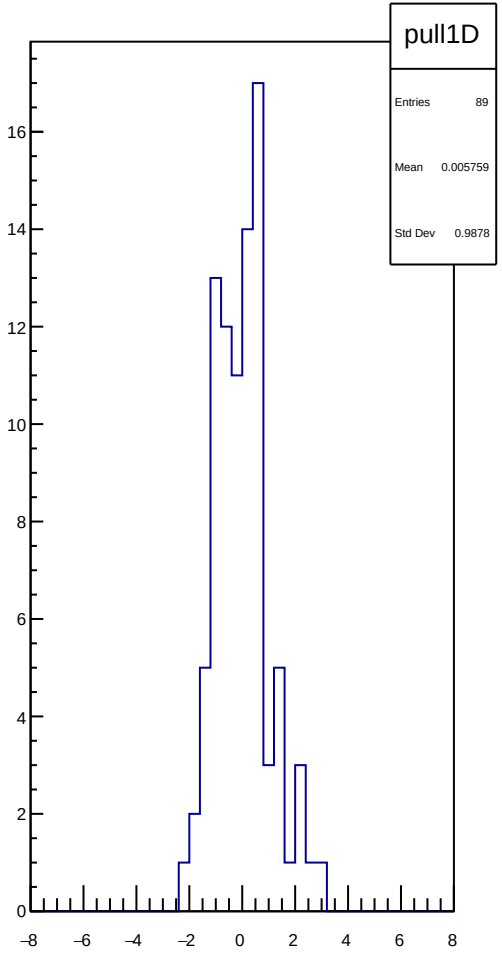

pull1D
Entries 89
Mean −0.007085
Std Dev 0.8606
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

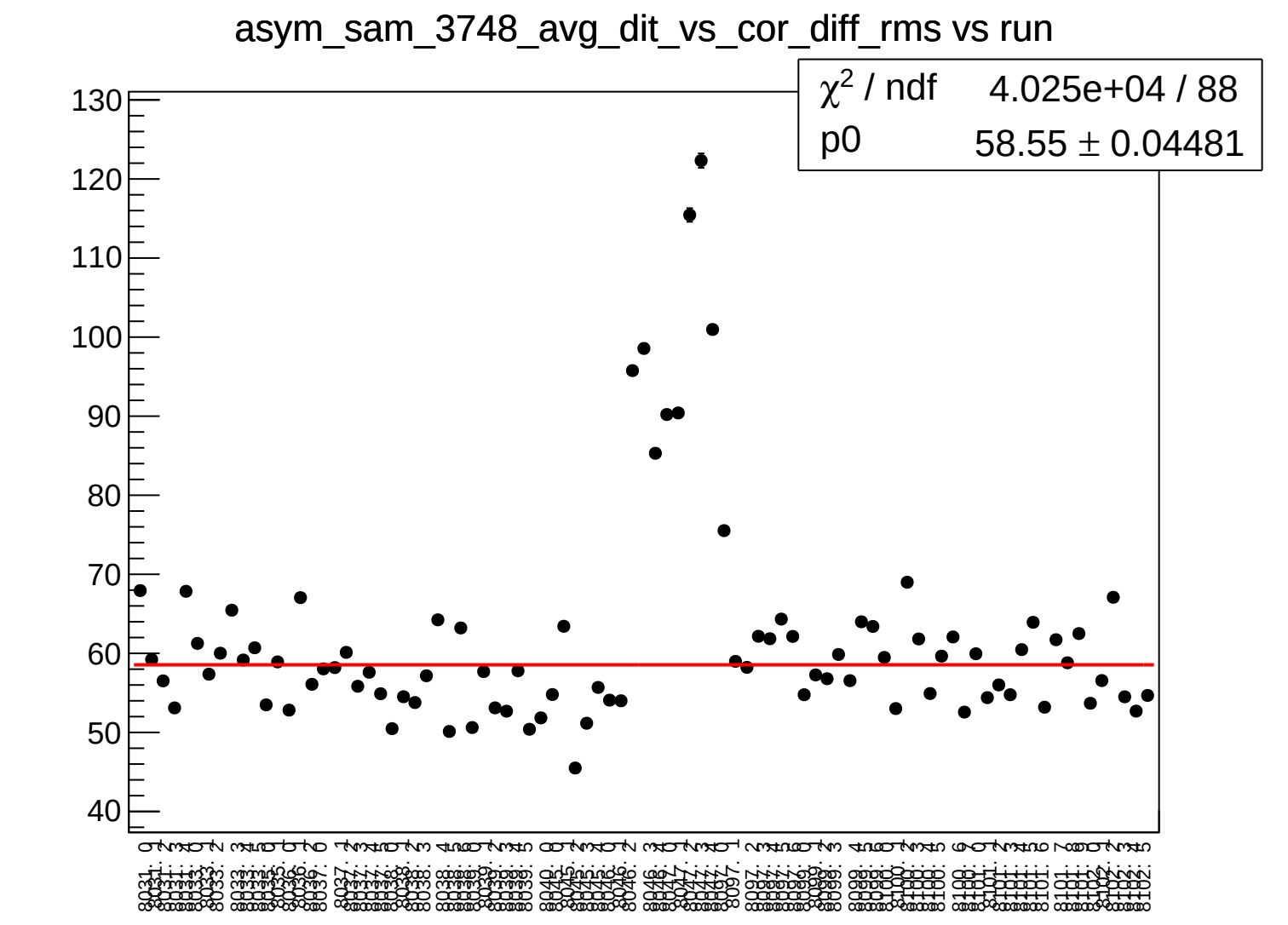

asym_sam_3748_avg_rms vs run
χ² / ndf 1.046e+04 / 88
p0 1713 ± 1.3
2000
1900
1800
1700
1600
1500

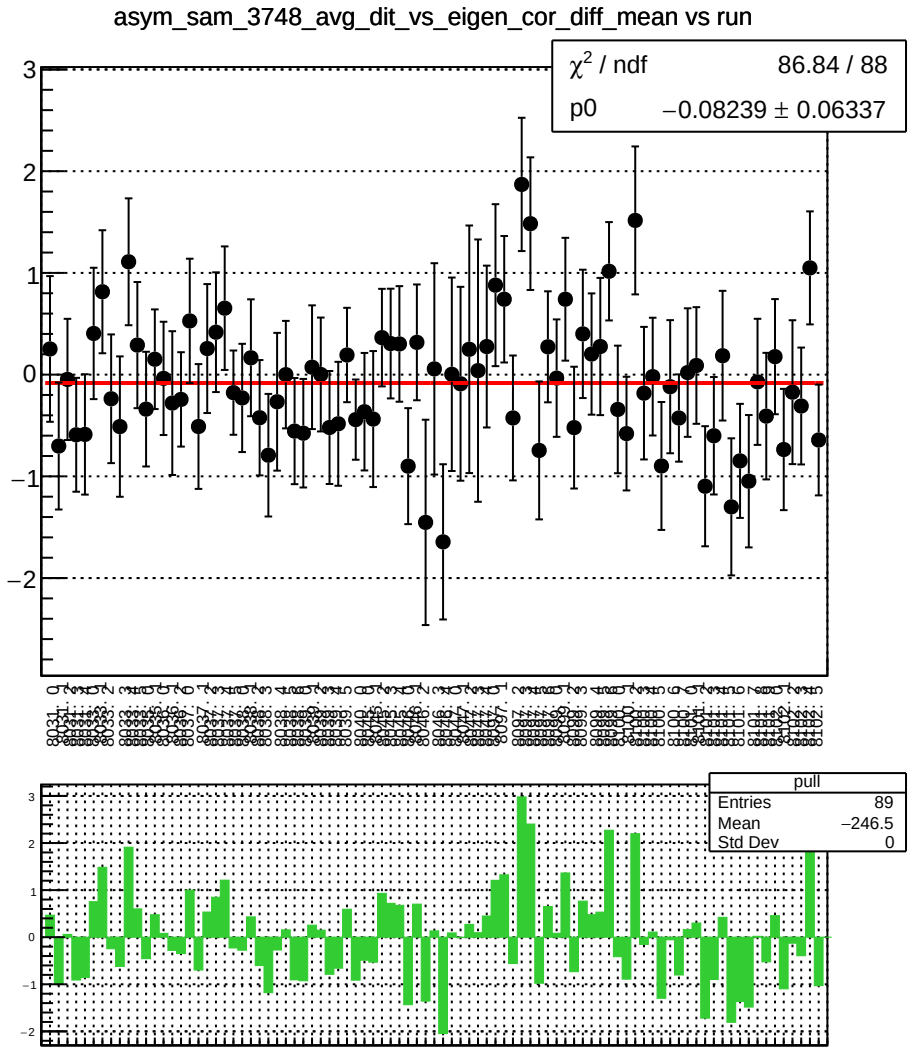

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 91.88 / 88
p0 −1.805e−13 ± 1.814e−13
0.004
0.003
0.002
0.001
0
−0.001
pull
Entries 89
Mean 95.66
Std Dev 0
pull1D
Entries 89
Mean 0.09709
Std Dev 1.011

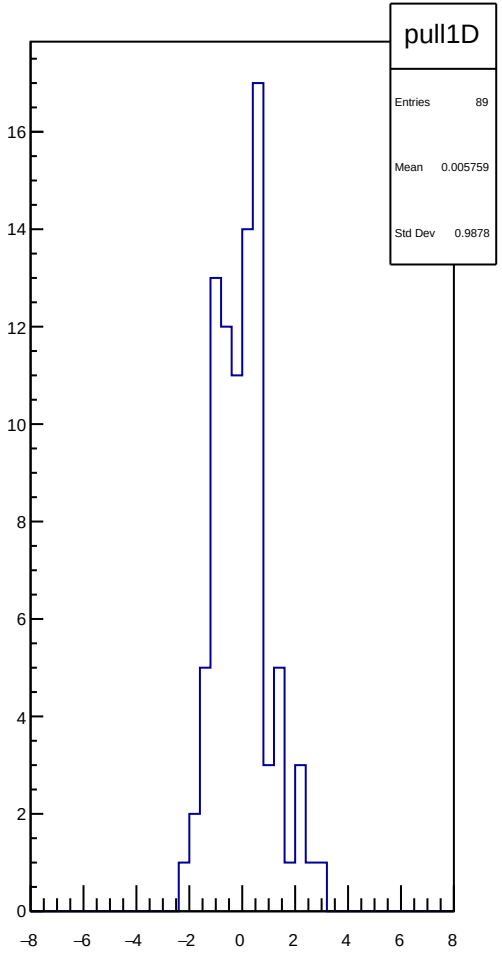

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.033e+06 / 88
p0 1.084e−10 ± 1.282e−13
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

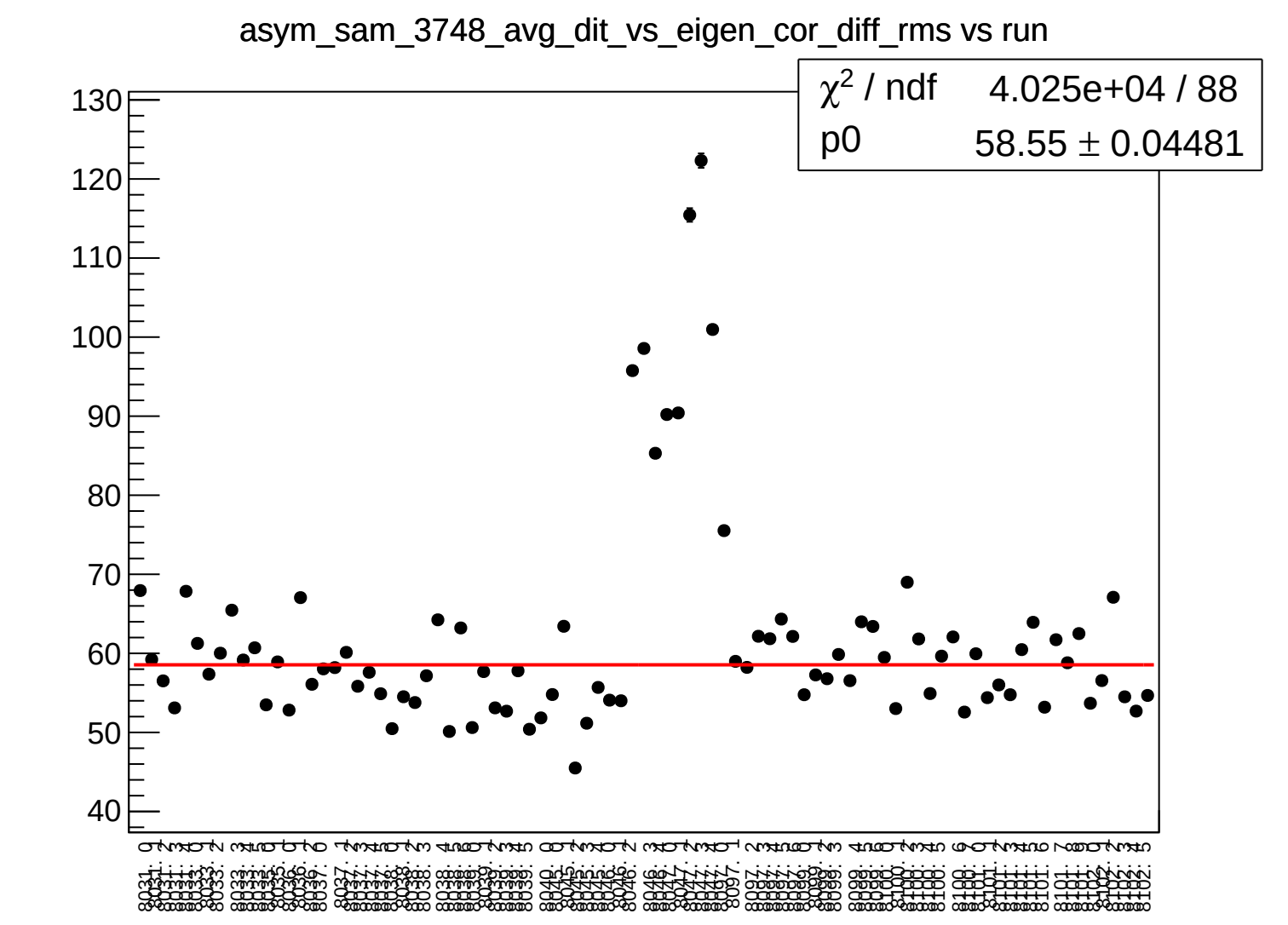

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 86.84 / 88
p0 −0.08239 ± 0.06337
pull
Entries 89
Mean −246.5
Std Dev 0

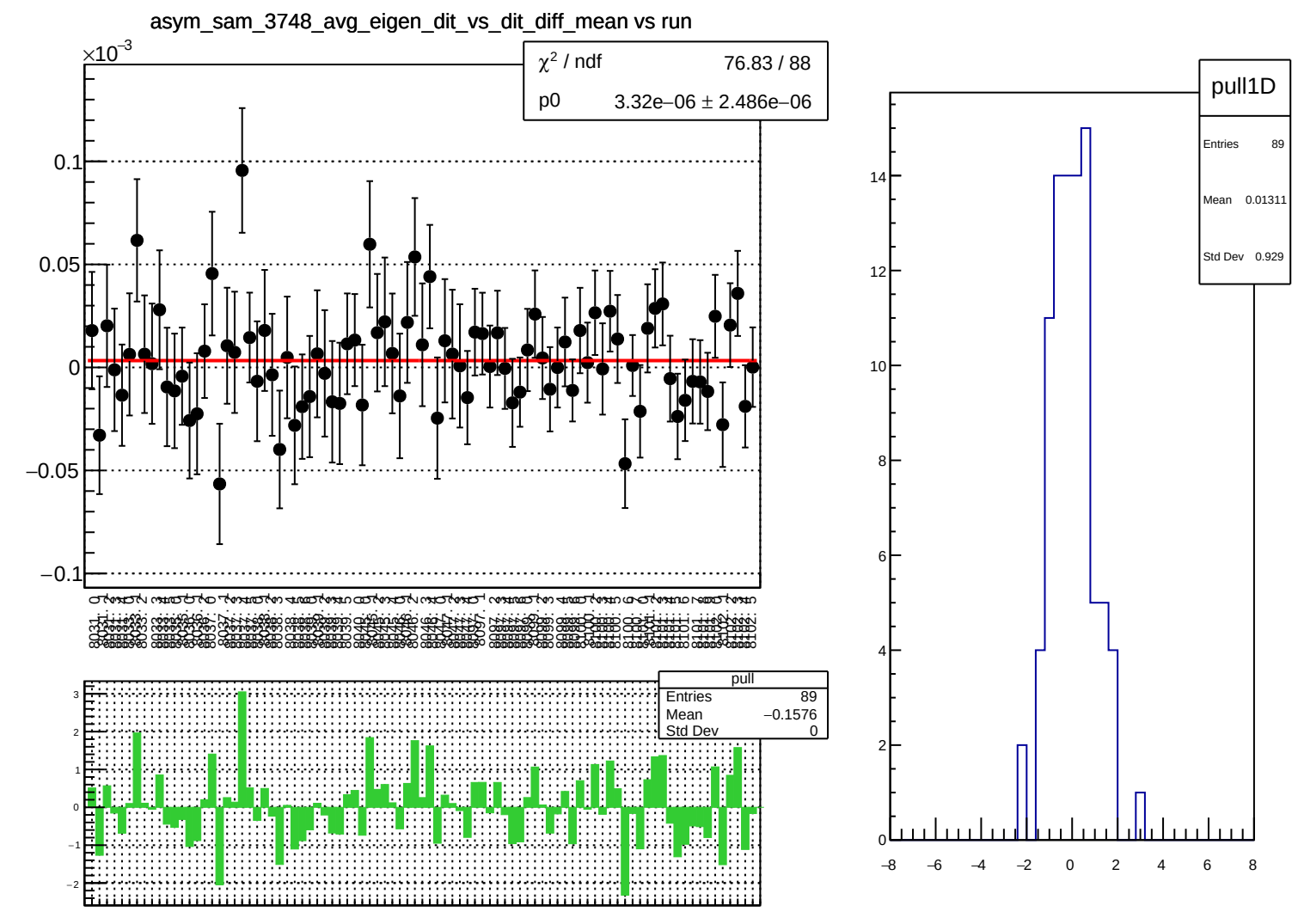

pull1D
Entries 89
Mean 0.005759
Std Dev 0.9878

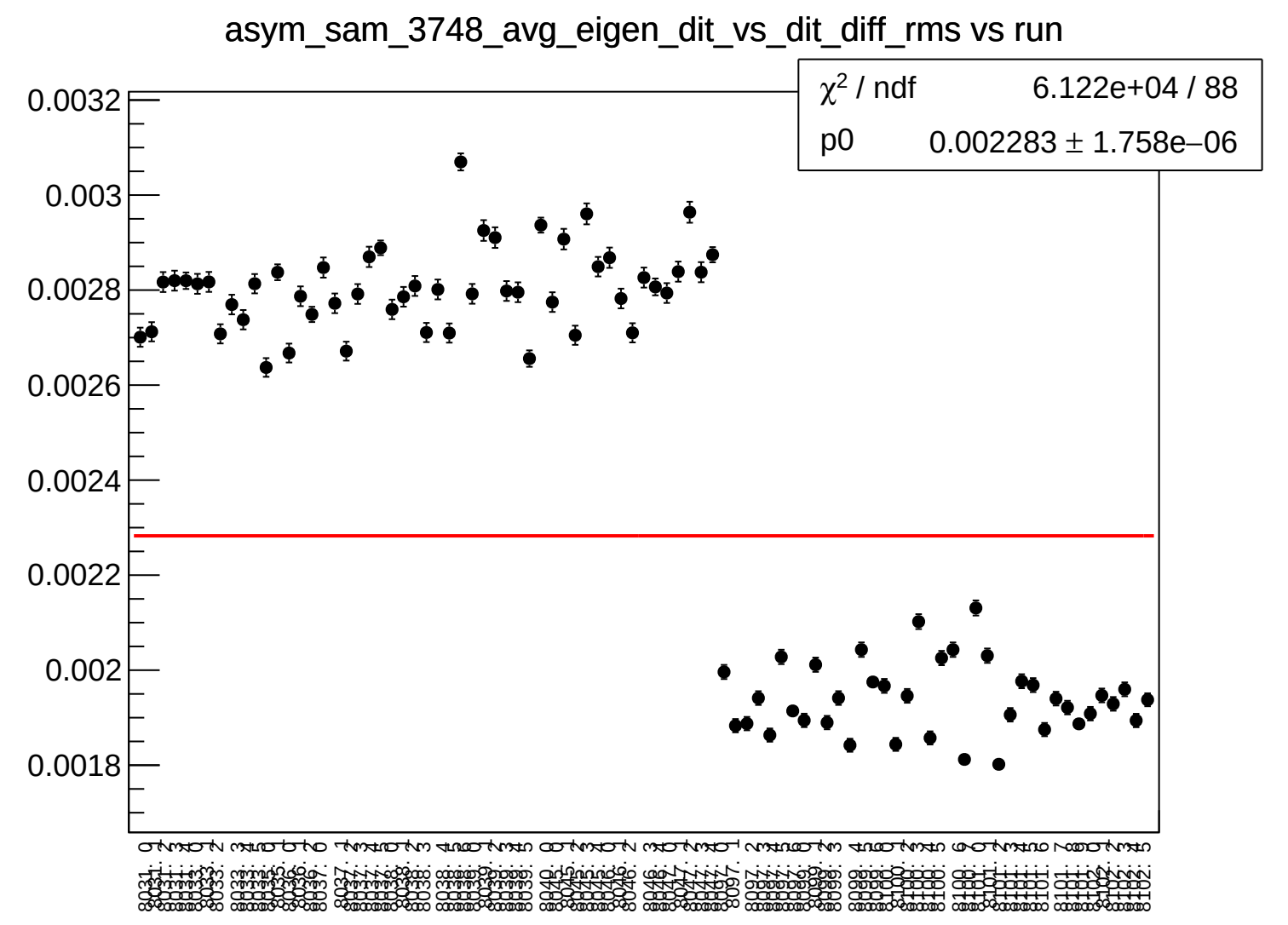

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 4.025e+04 / 88
p0 58.55 ± 0.04481
130
120
110
100
90
80
70
60
50
40

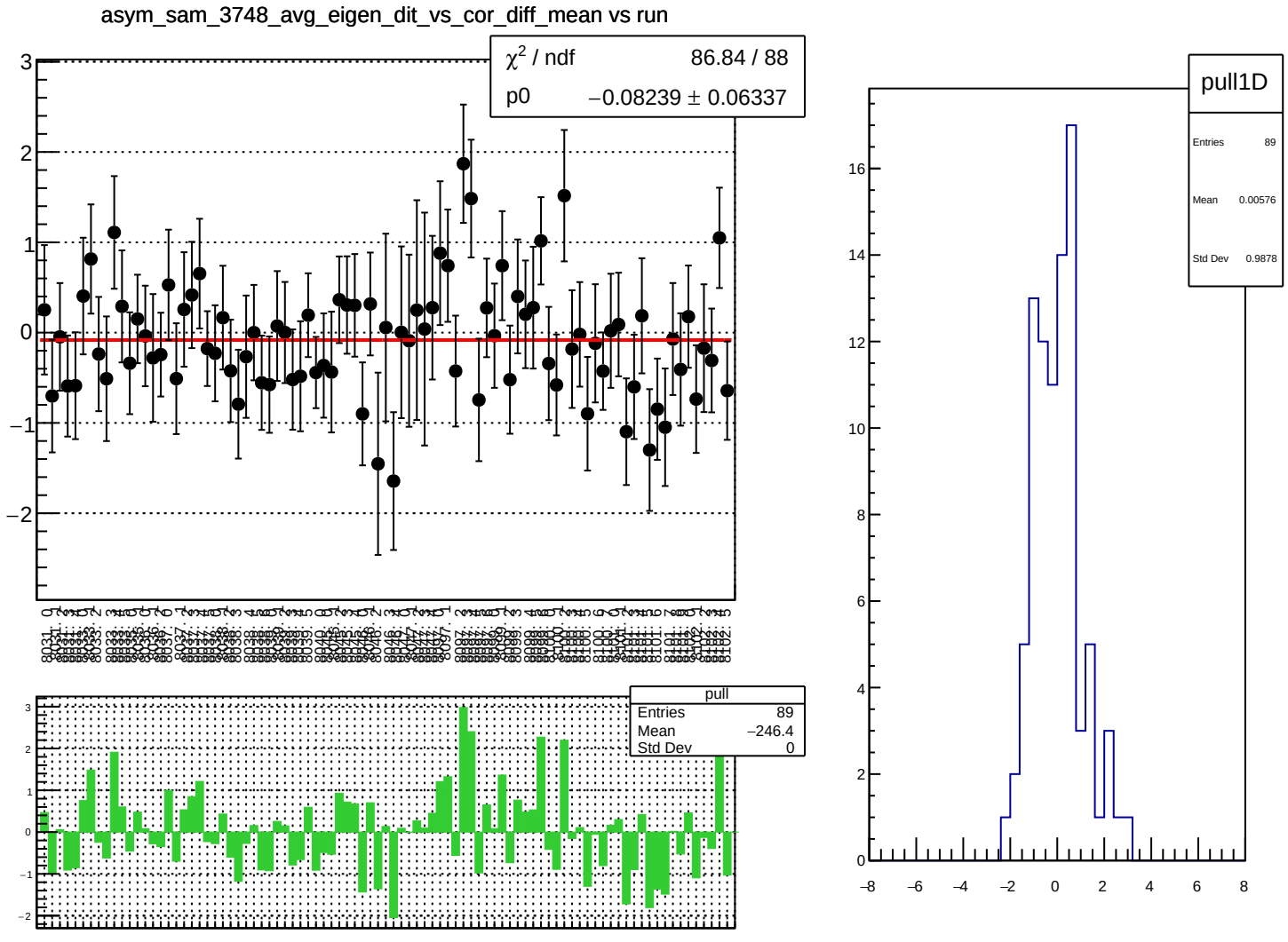

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.84 / 88
p0 −0.08239 ± 0.06337
pull
Entries 89
Mean −246.5
Std Dev 0

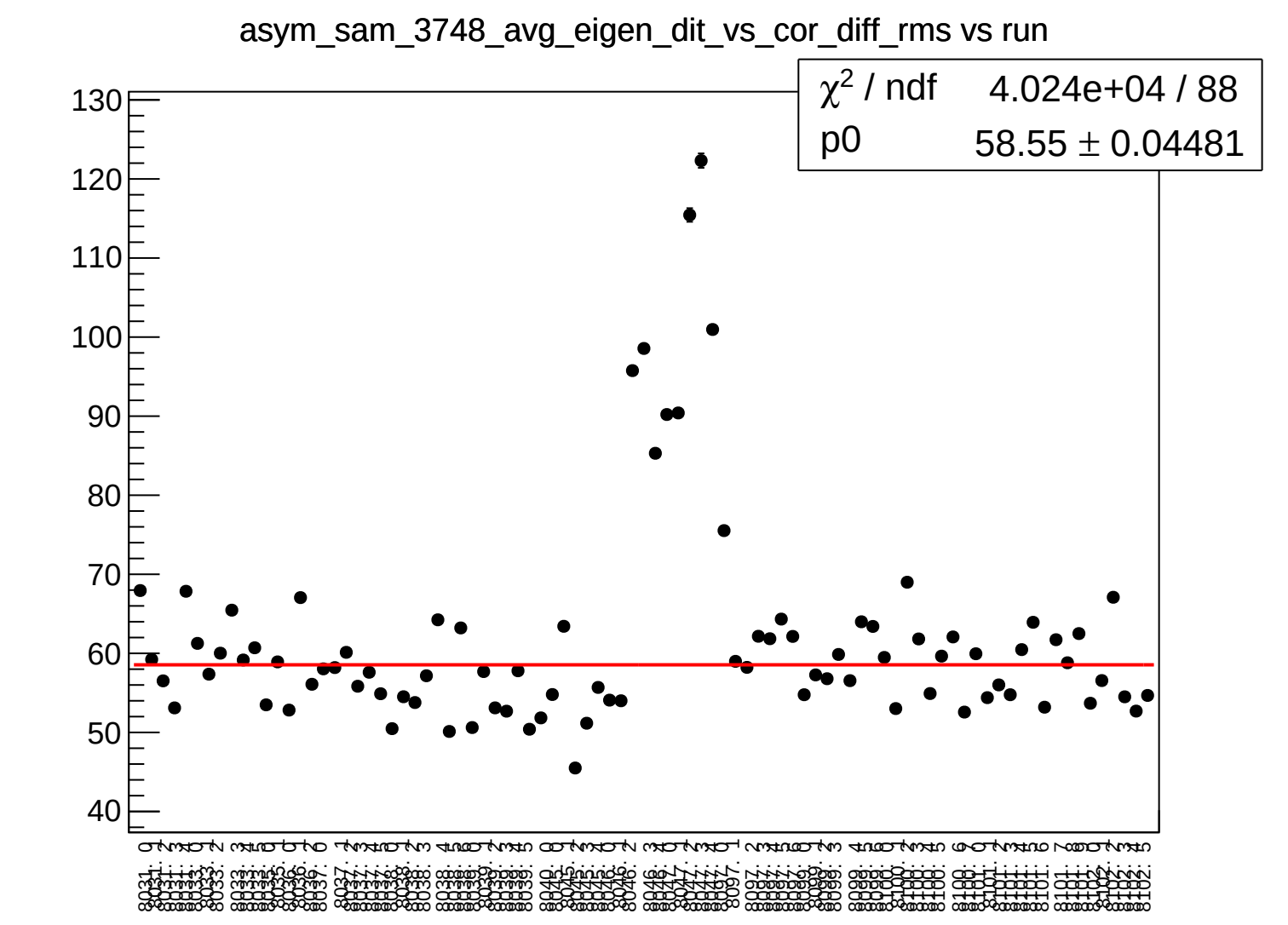

pull1D
Entries 89
Mean 0.005759
Std Dev 0.9878

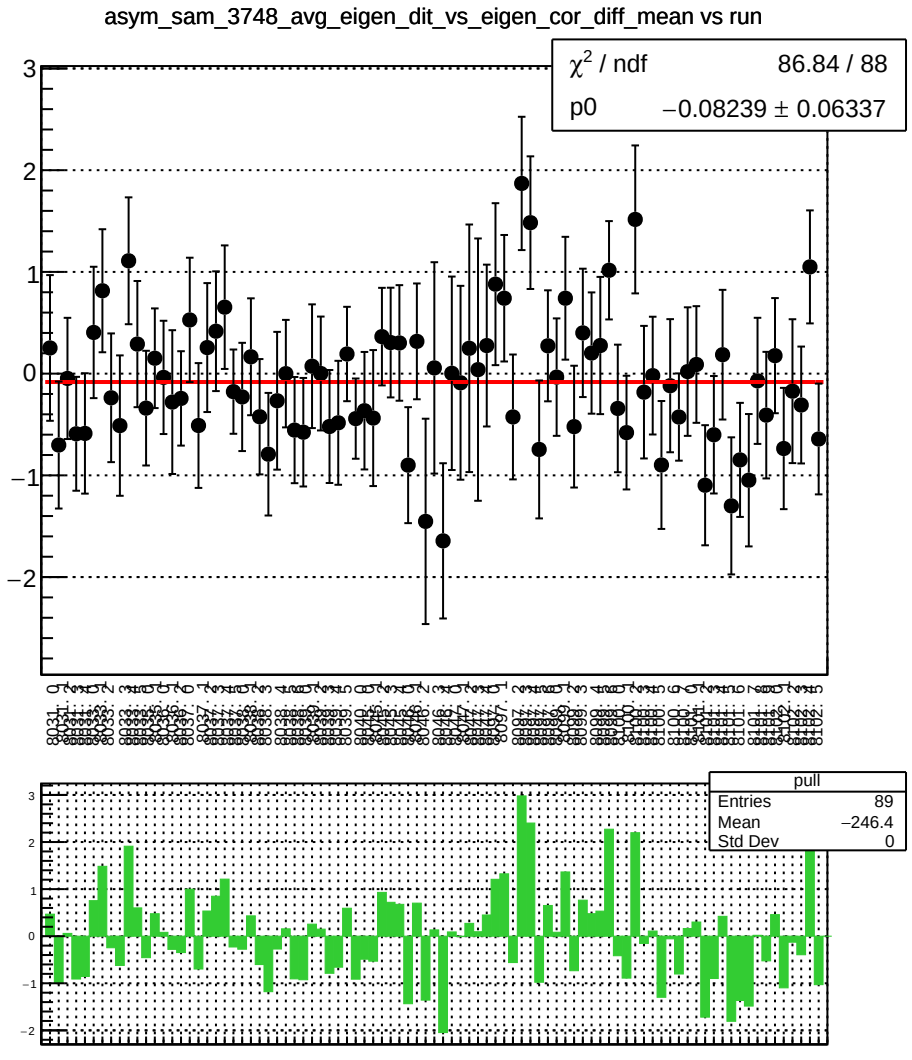

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 4.025e+04 / 88
p0 58.55 ± 0.04481
130
120
110
100
90
80
70
60
50
40

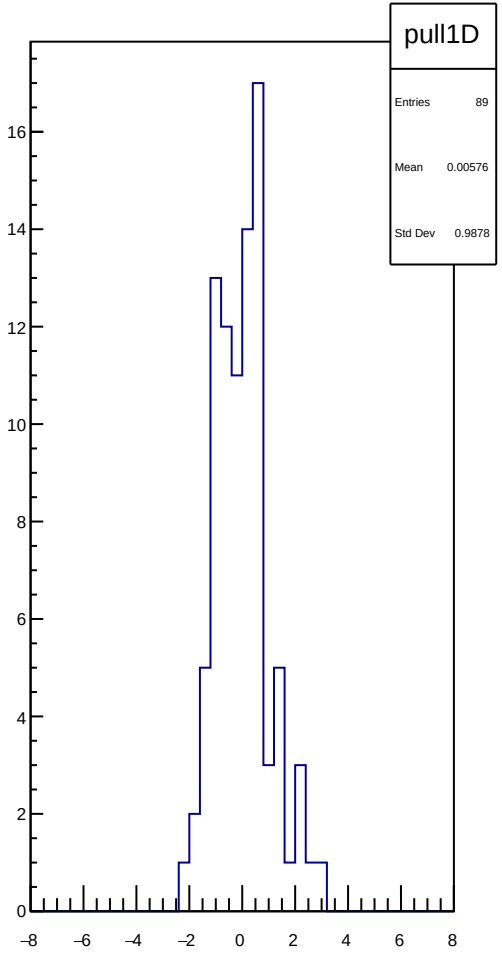

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.83 / 88
p0 3.32e−06 ± 2.486e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 89
Mean −0.1576
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.01311
Std Dev 0.929
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

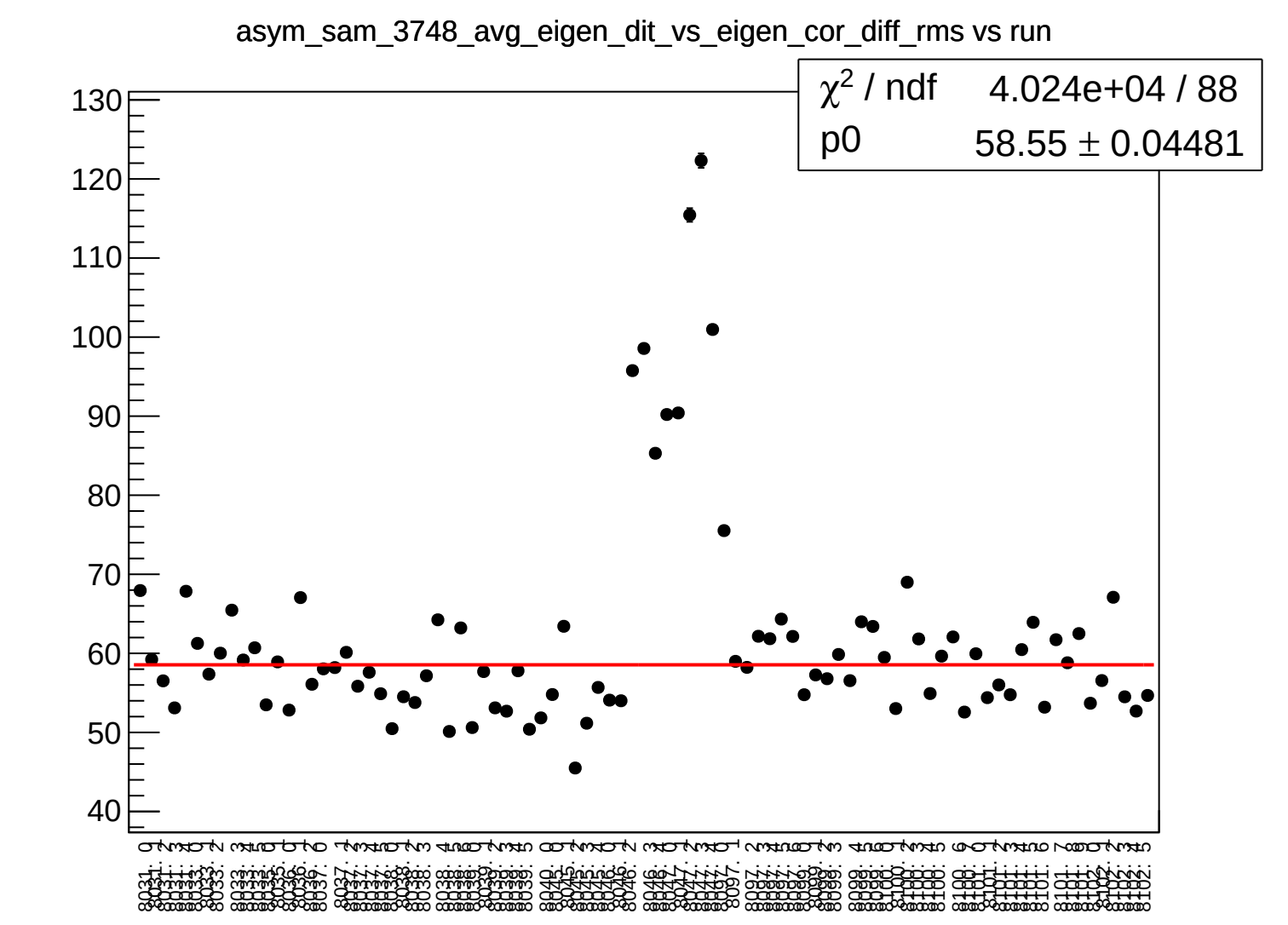

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.122e+04 / 88
p0 0.002283 ± 1.758e−06
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

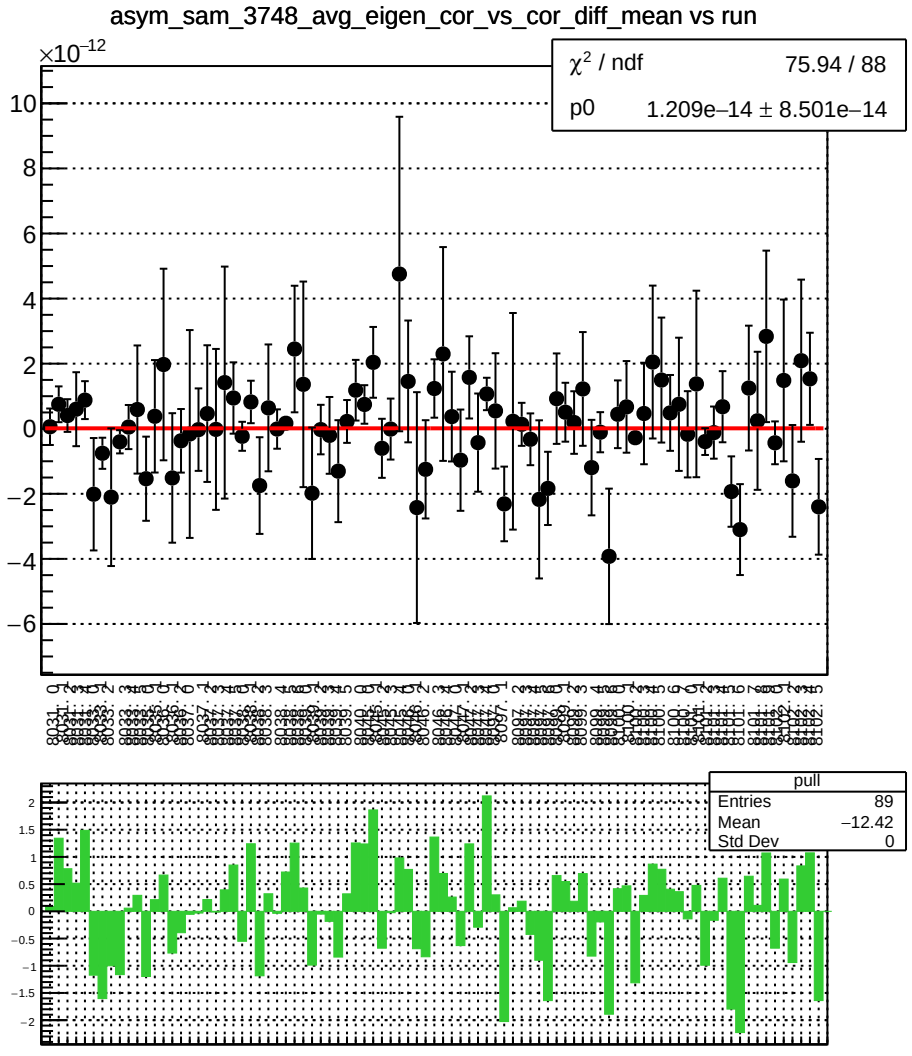

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.84 / 88
p0 −0.08239 ± 0.06337
pull
Entries 89
Mean −246.4
Std Dev 0
pull1D
Entries 89
Mean 0.00576
Std Dev 0.9878

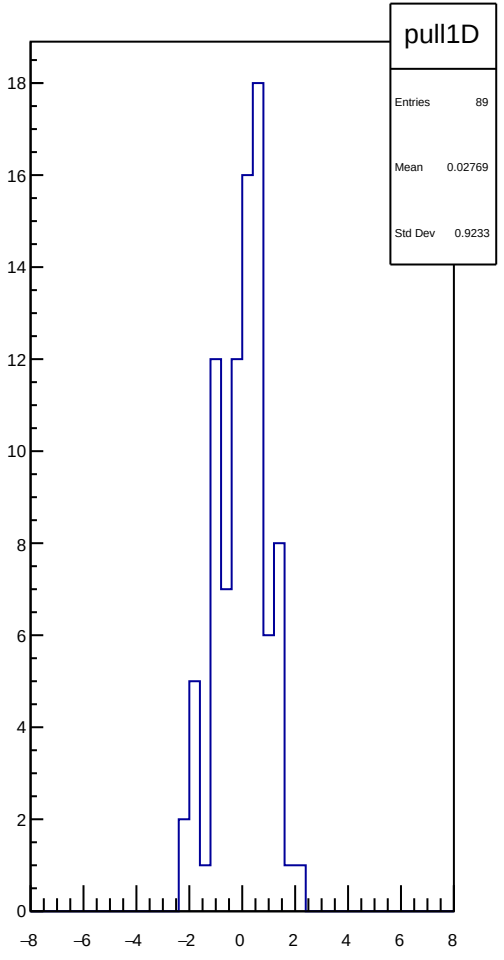

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 4.024e+04 / 88
p0 58.55 ± 0.04481
130
120
110
100
90
80
70
60
50
40

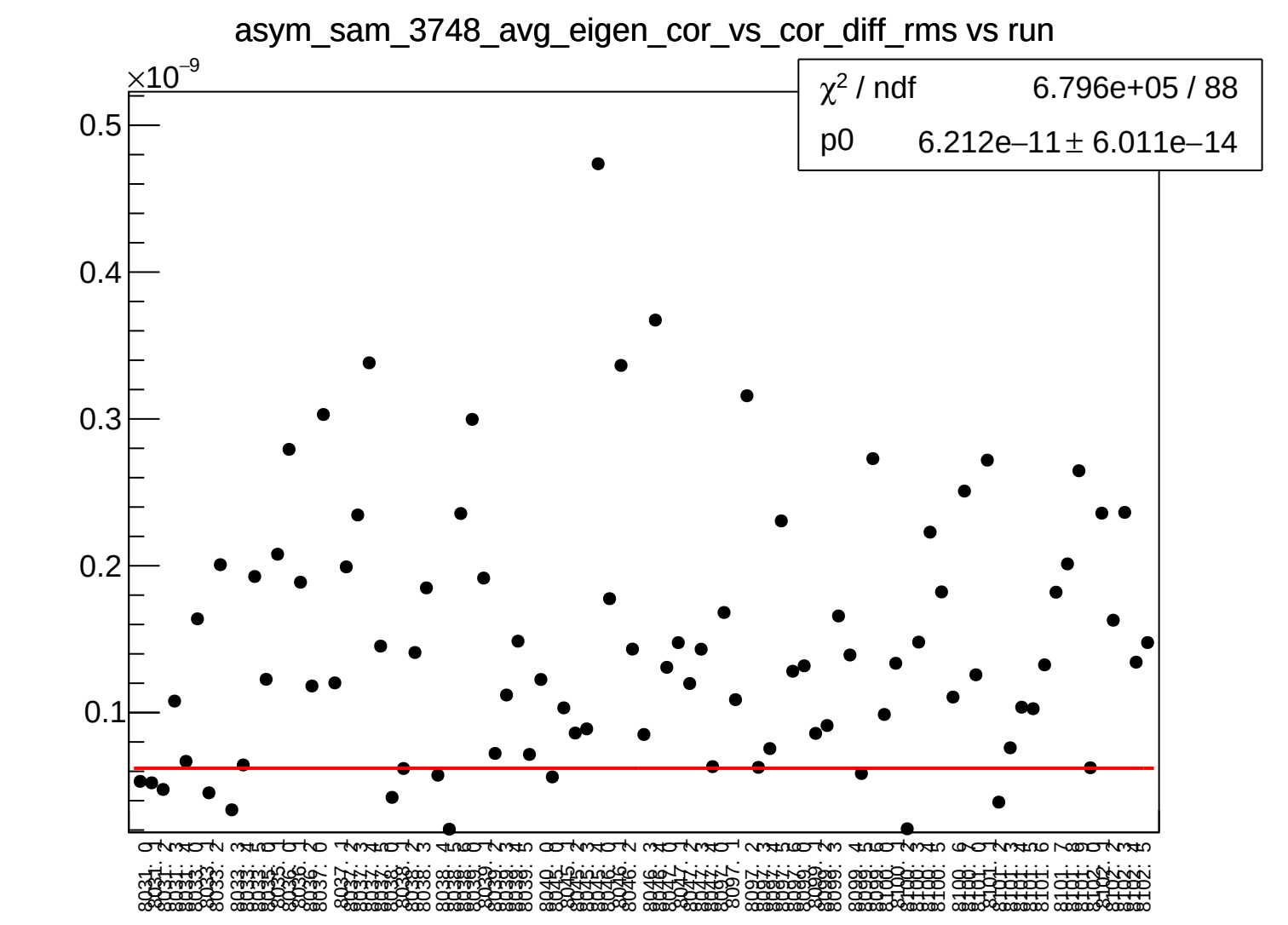

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.84 / 88
p0 −0.08239 ± 0.06337
pull
Entries 89
Mean −246.4
Std Dev 0

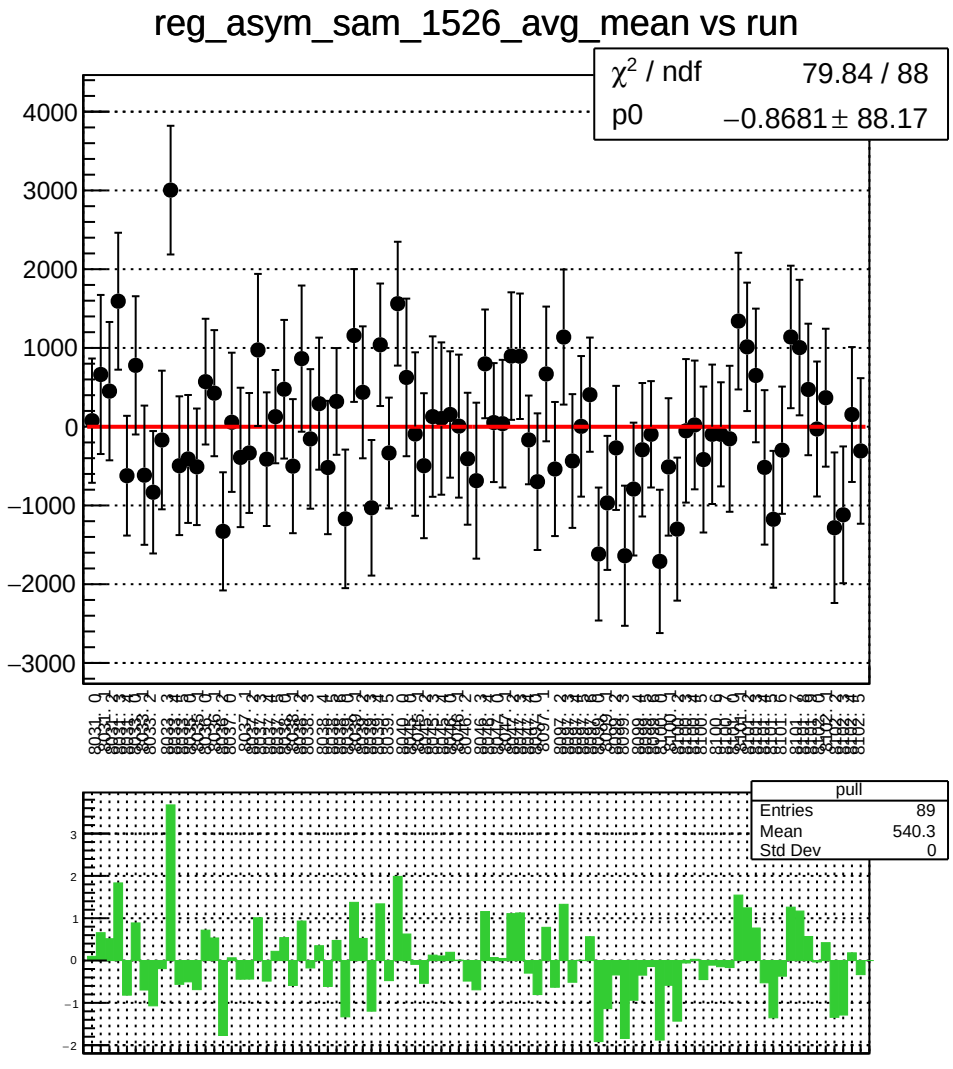

pull1D
Entries 89
Mean 0.00576
Std Dev 0.9878

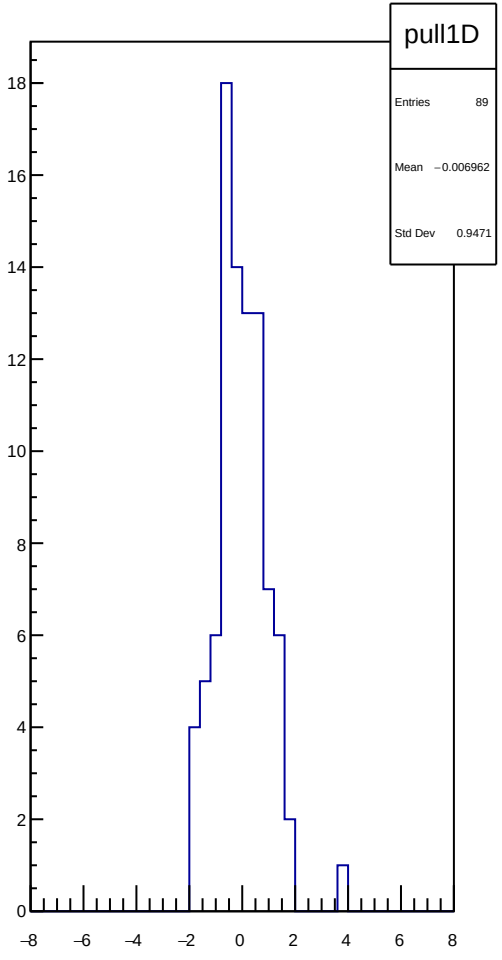

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.024e+04 / 88
p0 58.55 ± 0.04481
130
120
110
100
90
80
70
60
50
40

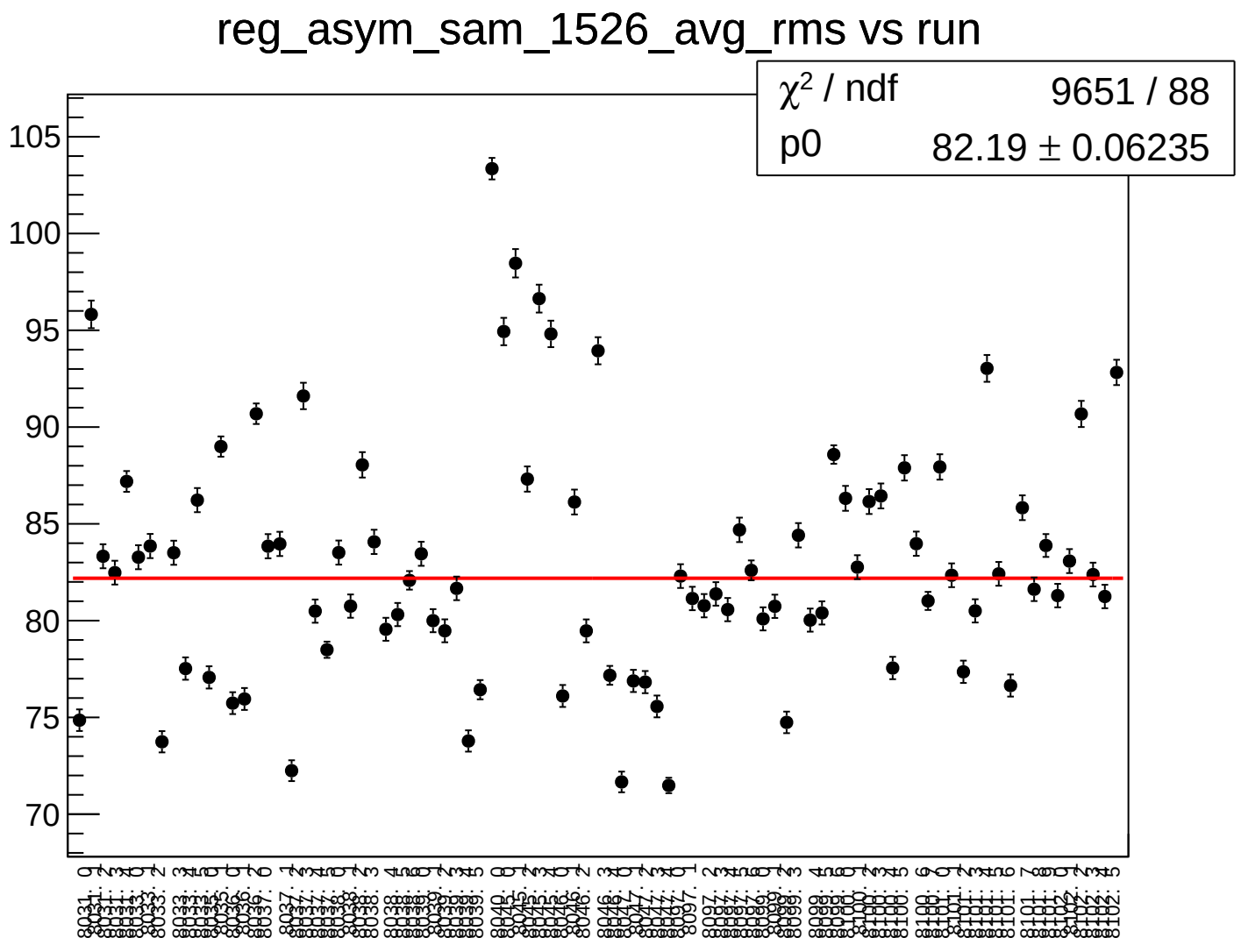

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.94 / 88
p0 1.209e−14 ± 8.501e−14
pull
Entries 89
Mean −12.42
Std Dev 0

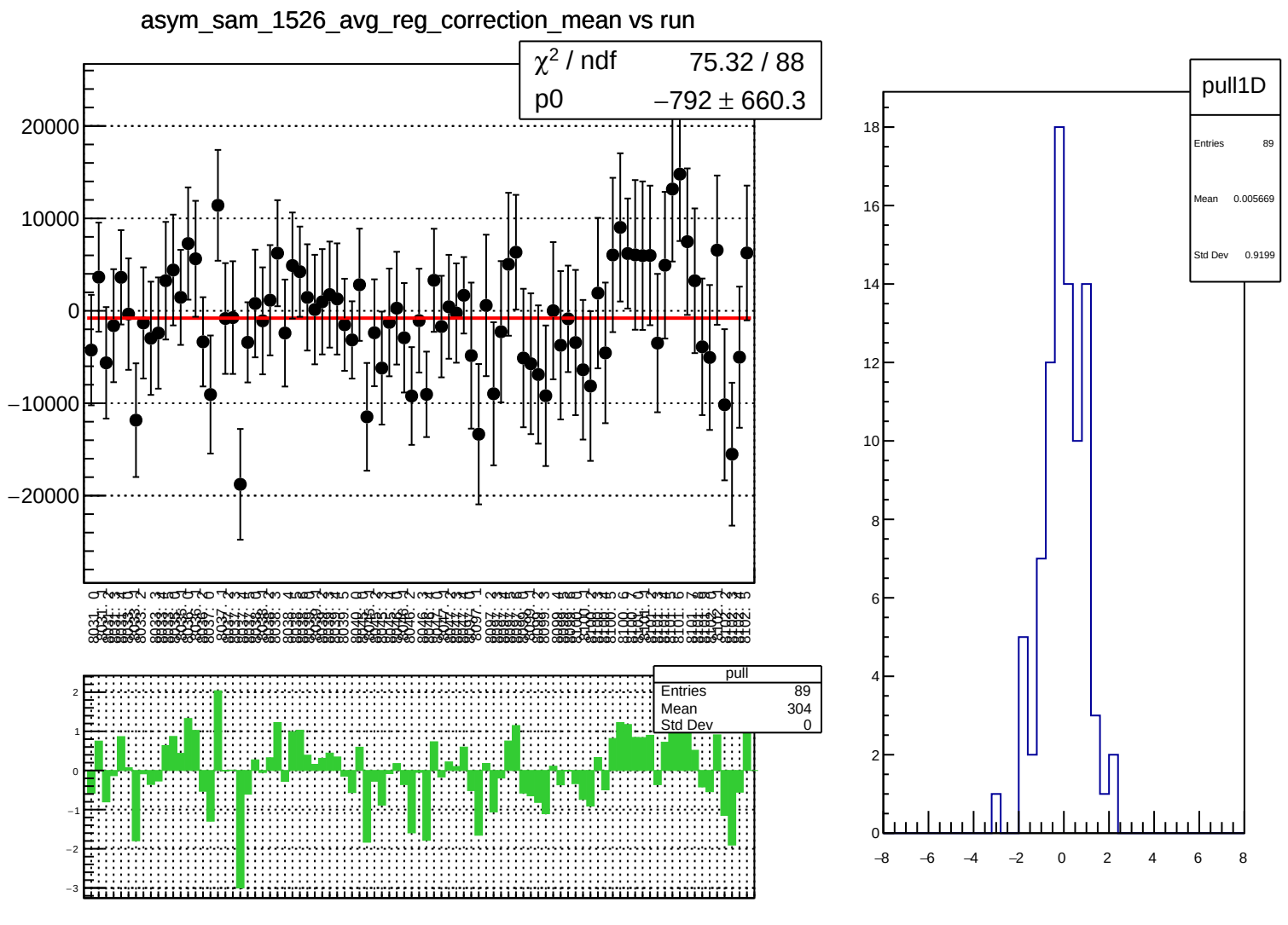

pull1D
Entries 89
Mean 0.02769
Std Dev 0.9233

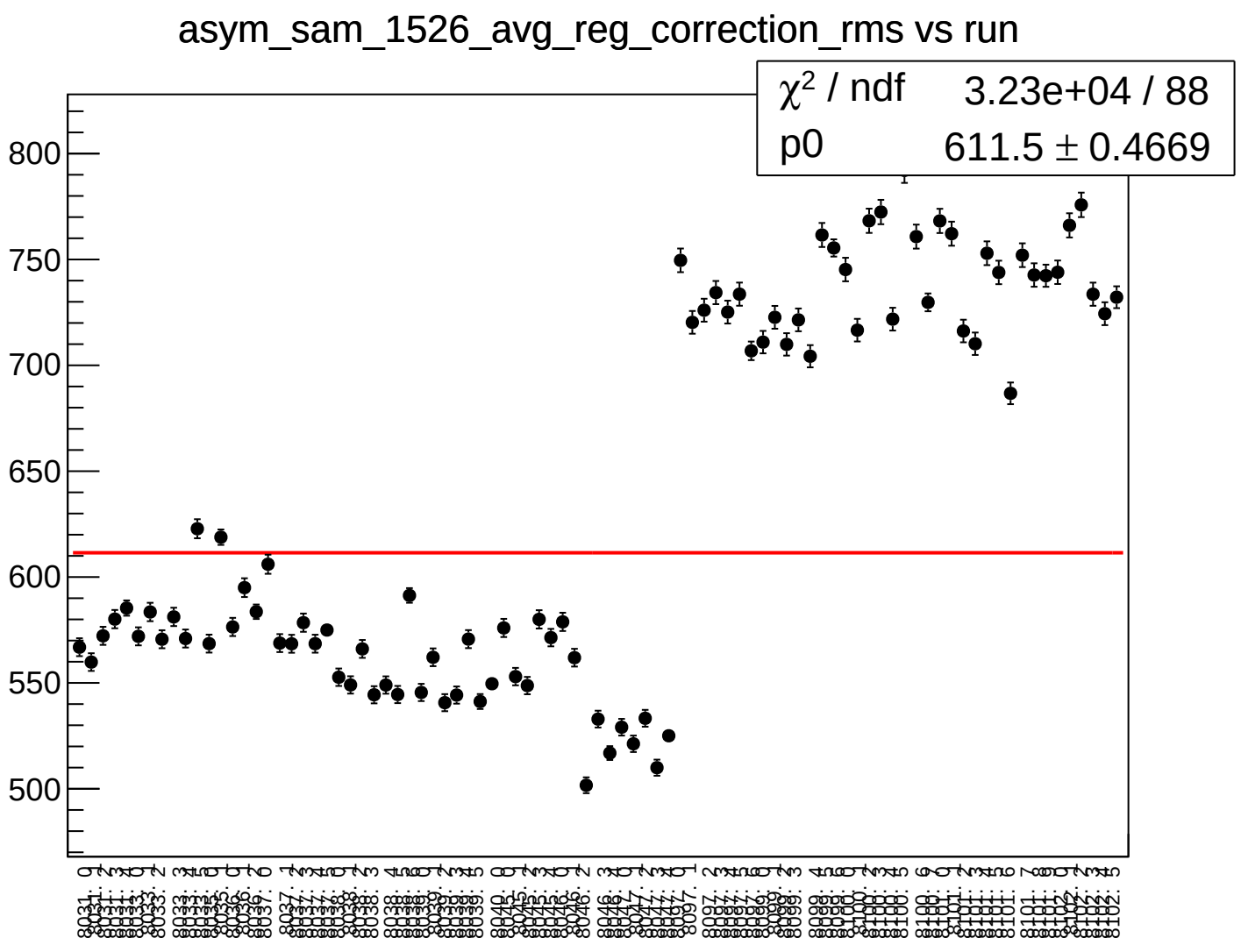

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.796e+05 / 88
p0 6.212e−11 ± 6.011e−14
0.5
0.4
0.3
0.2
0.1

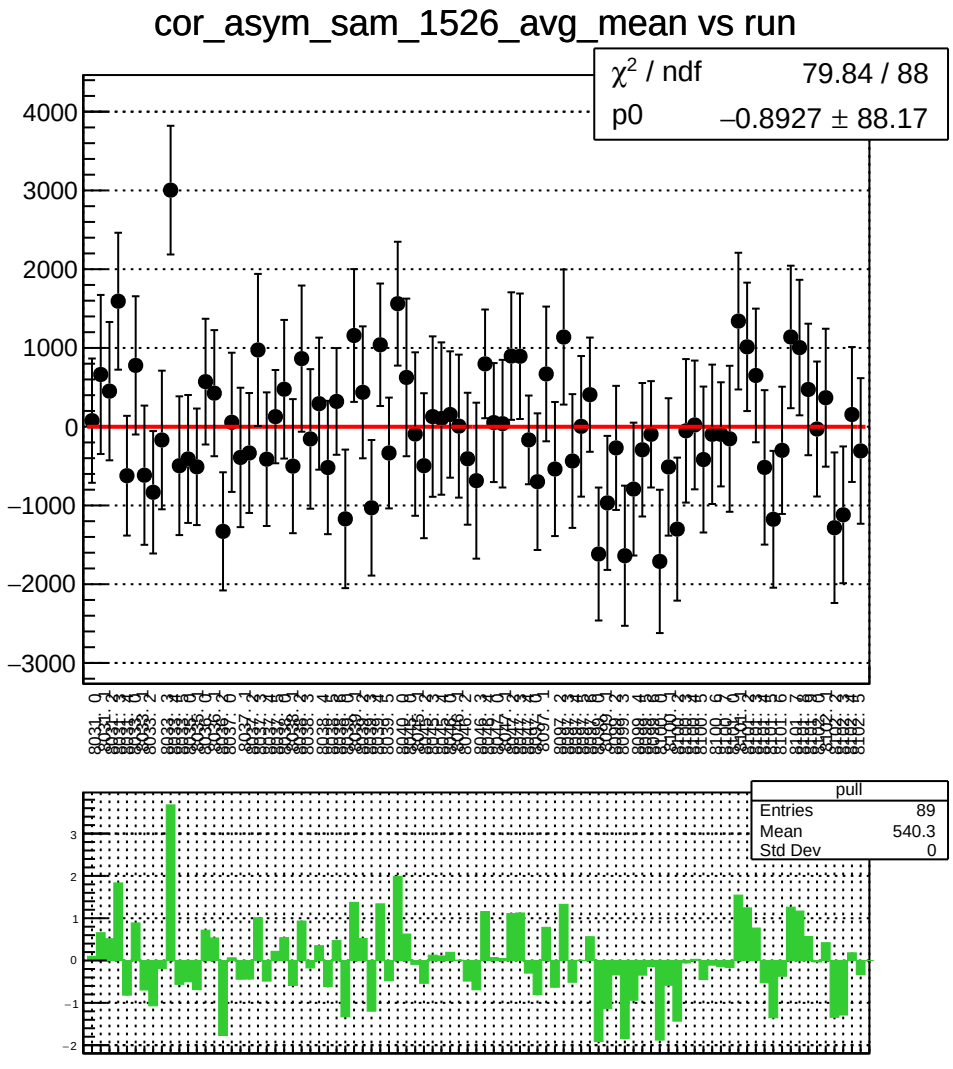

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 79.84 / 88
p0 −0.8681 ± 88.17
pull
Entries 89
Mean 540.3
Std Dev 0

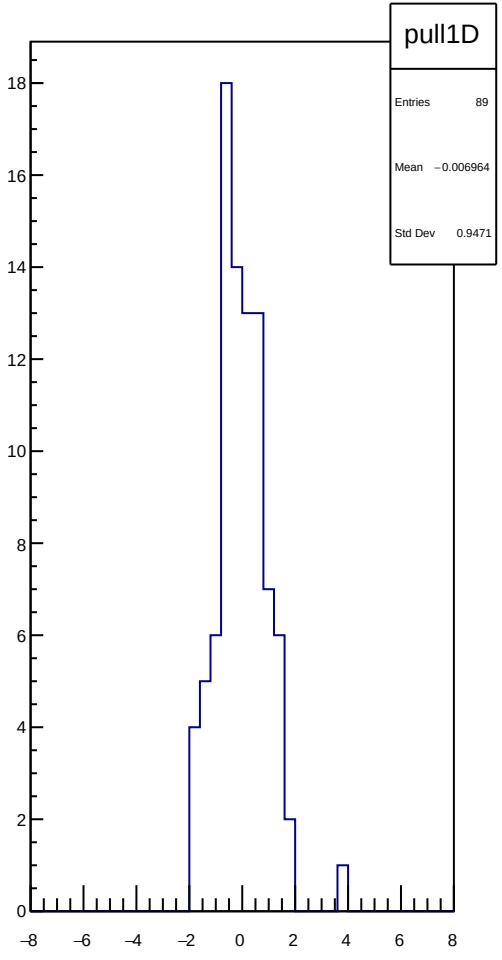

pull1D
Entries 89
Mean −0.006962
Std Dev 0.9471

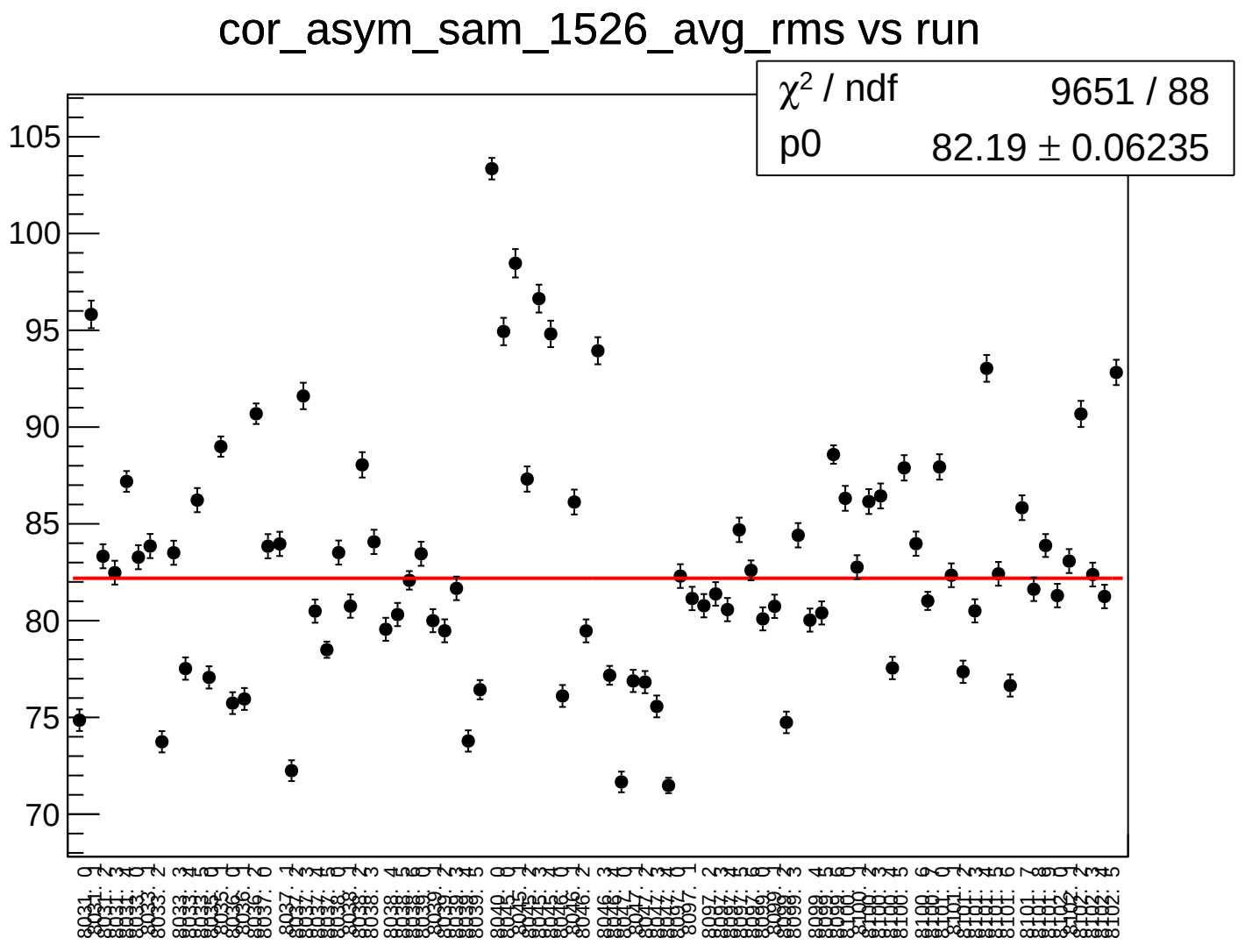

reg_asym_sam_1526_avg_rms vs run
χ² / ndf 9651 / 88
p0 82.19 ± 0.06235
105
100
95
90
85
80
75
70

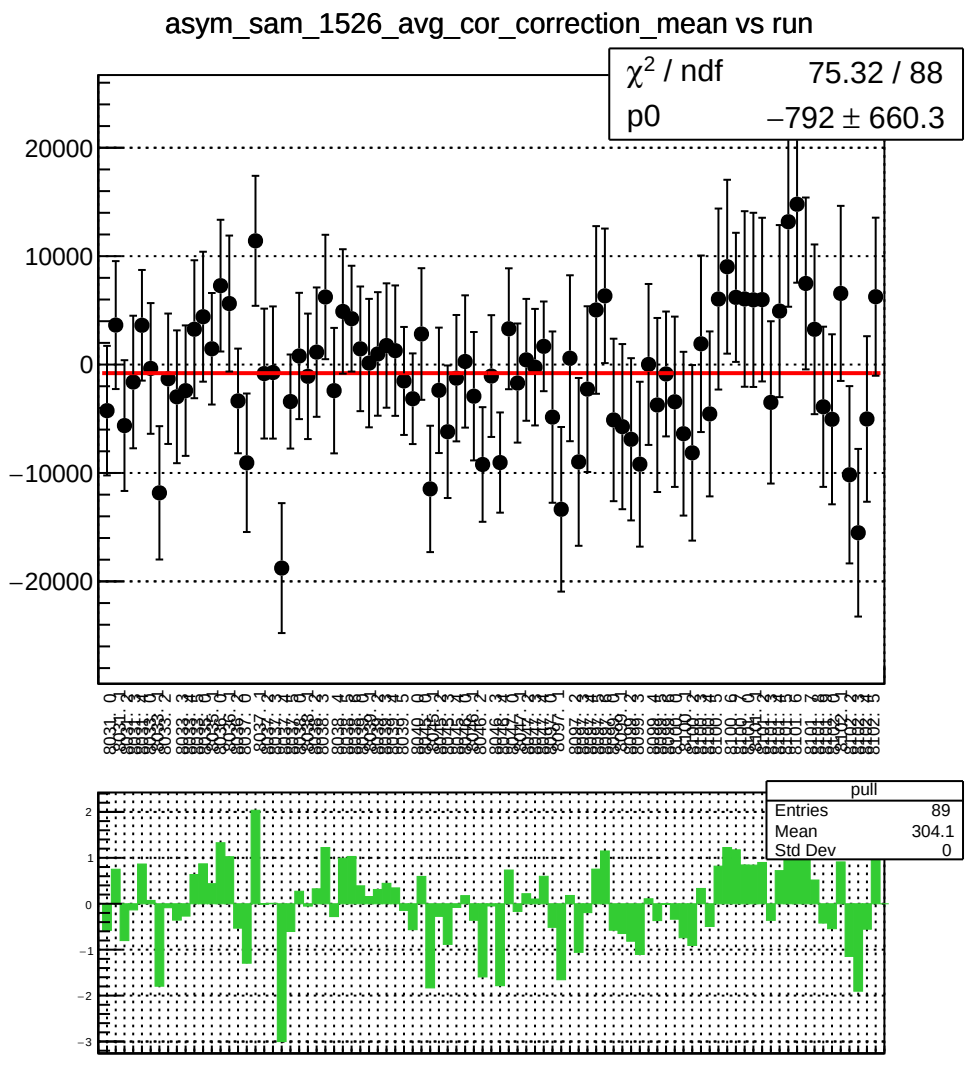

asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 75.32 / 88
p0 −792 ± 660.3
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 304
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.005669
Std Dev 0.9199
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

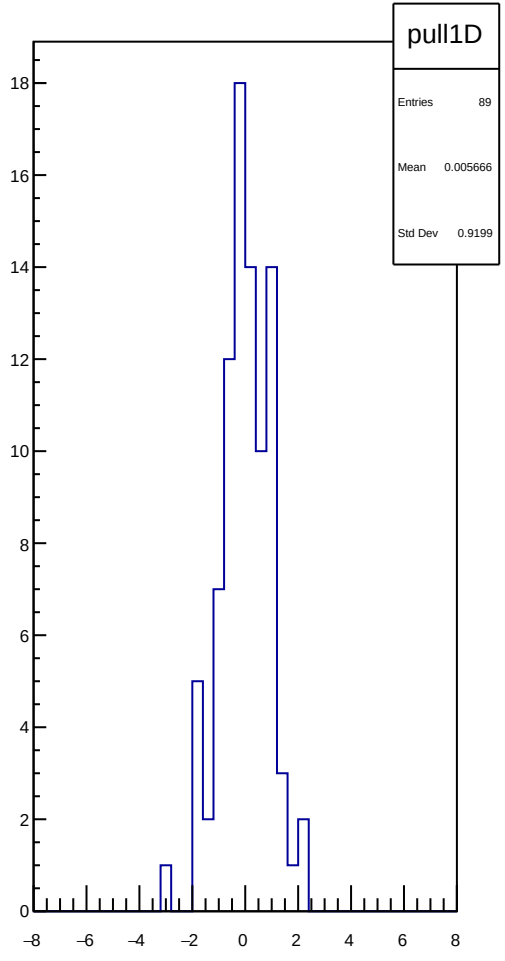

asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 3.23e+04 / 88
p0 611.5 ± 0.4669
800
750
700
650
600
550
500

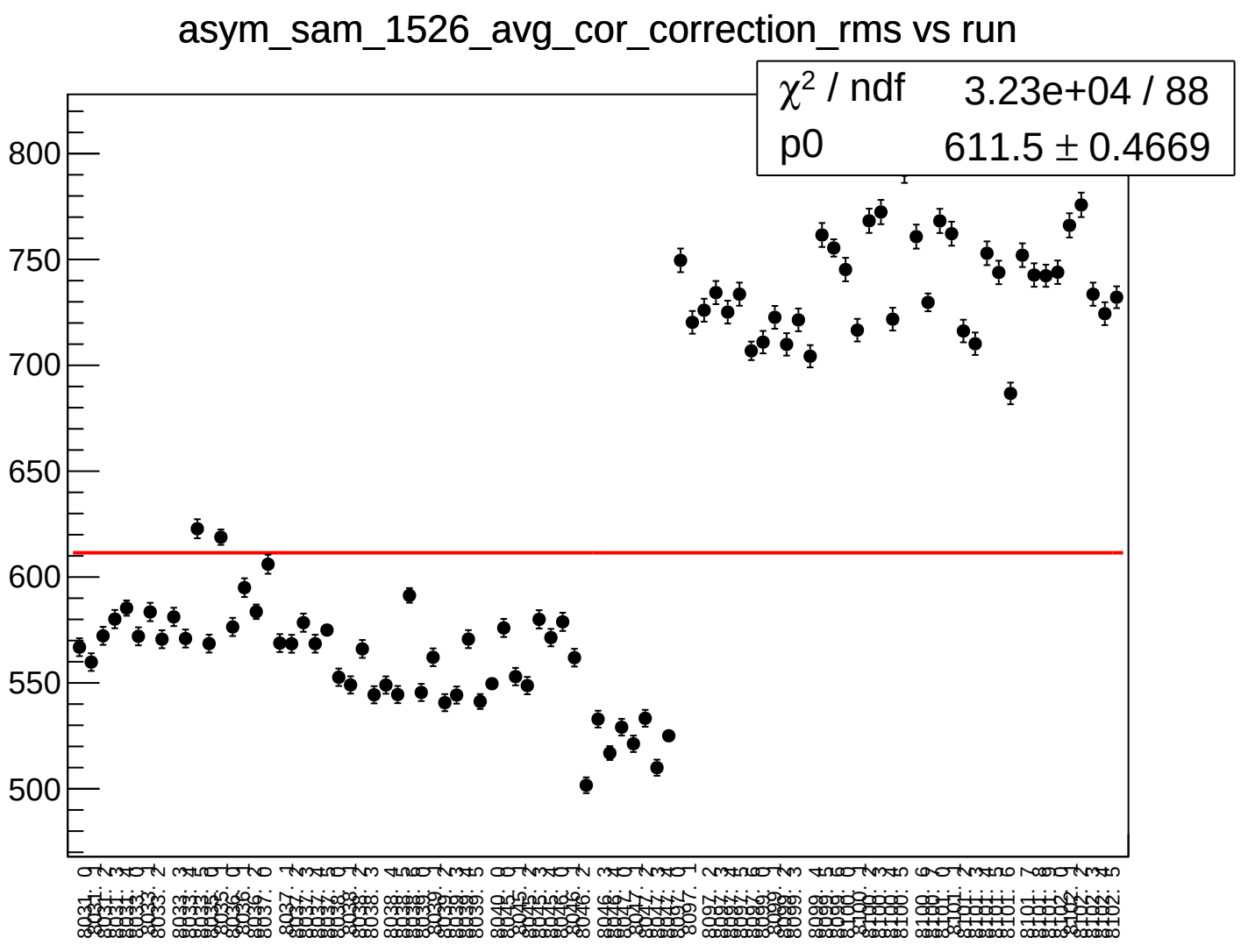

cor_asym_sam_1526_avg_mean vs run
χ² / ndf 79.84 / 88
p0 −0.8927 ± 88.17
pull
Entries 89
Mean 540.3
Std Dev 0

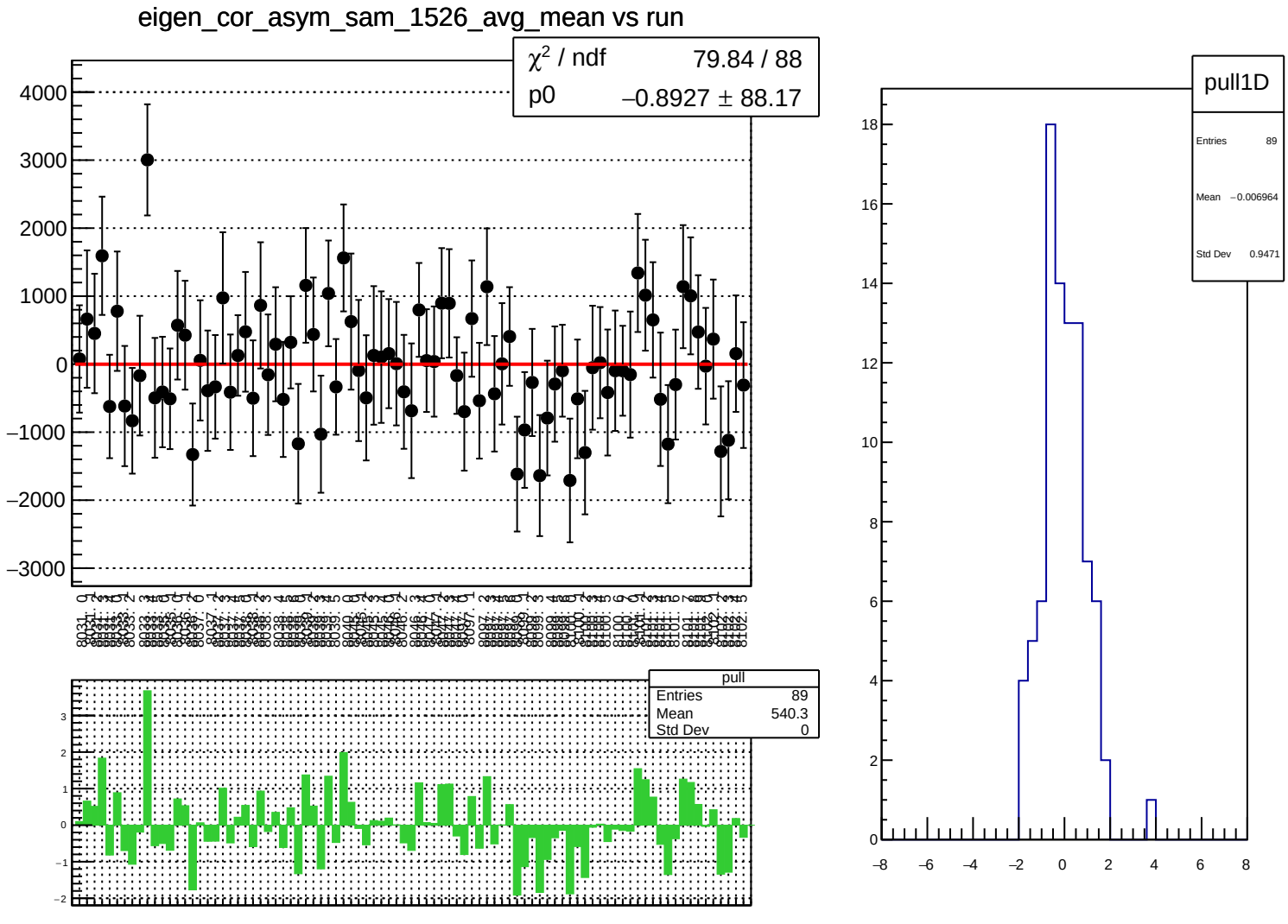

pull1D
Entries 89
Mean −0.006964
Std Dev 0.9471

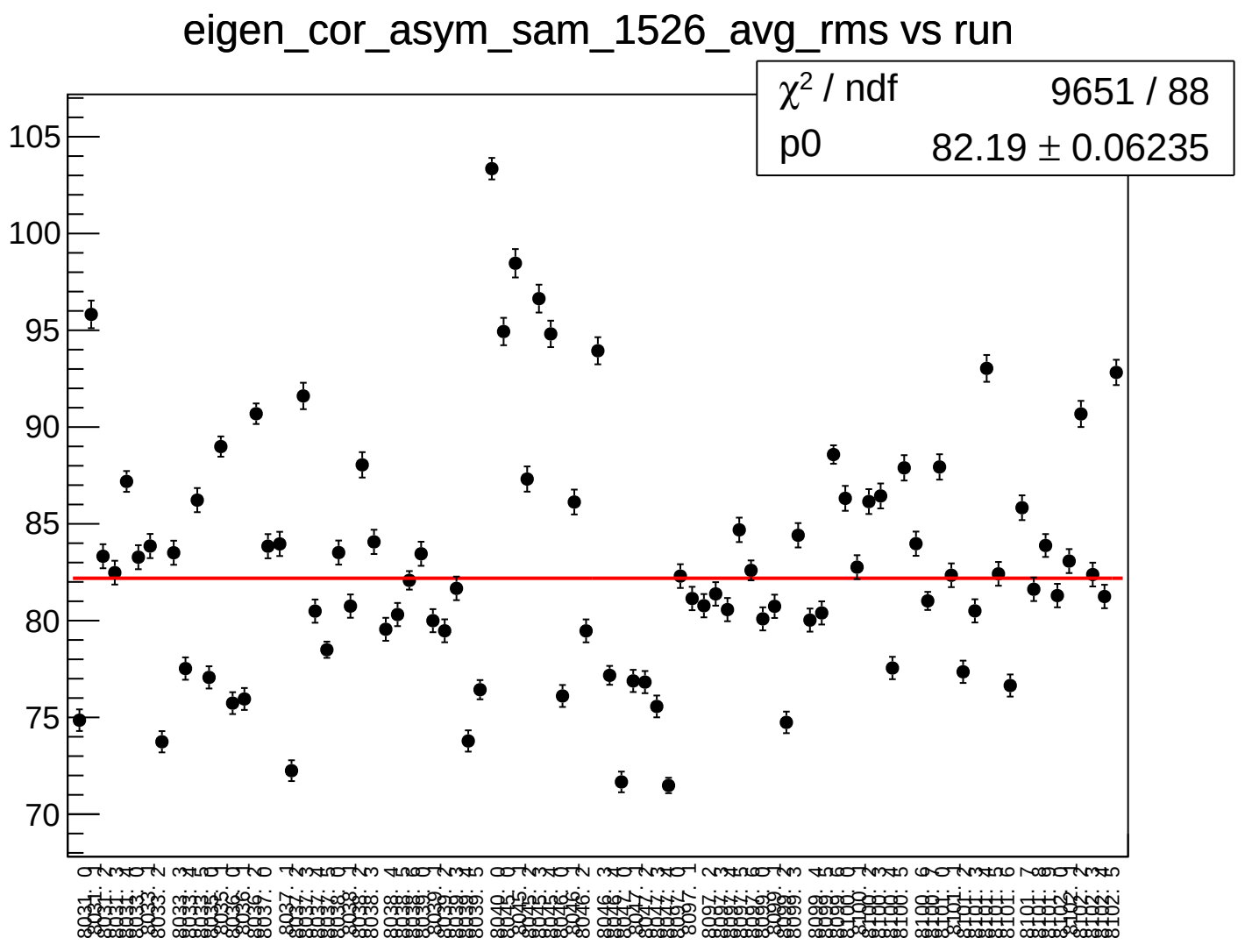

cor_asym_sam_1526_avg_rms vs run
χ² / ndf 9651 / 88
p0 82.19 ± 0.06235
105
100
95
90
85
80
75
70

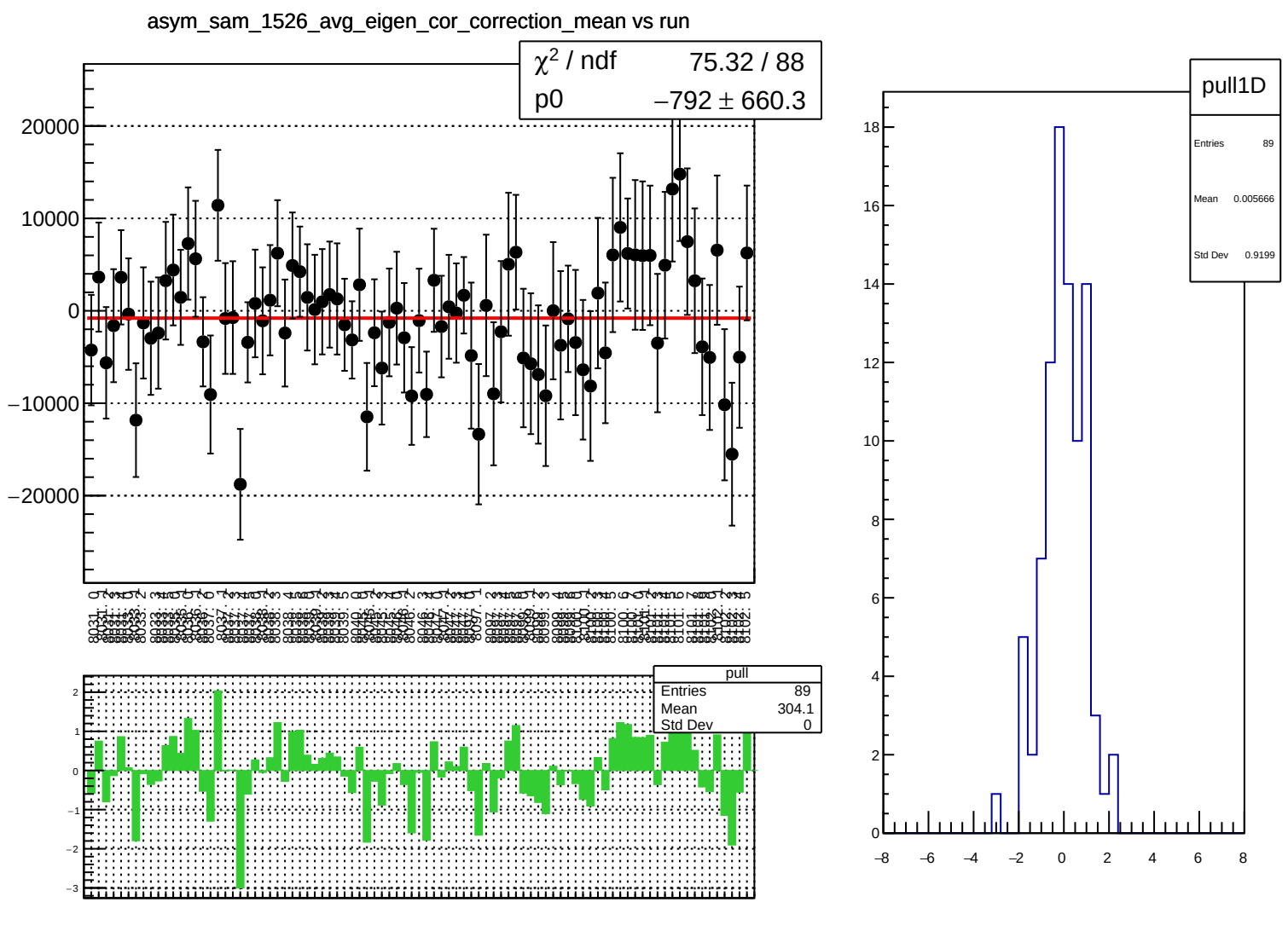

asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 75.32 / 88
p0 −792 ± 660.3
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 304.1
Std Dev 0
2
1
0
−1
−2
−3

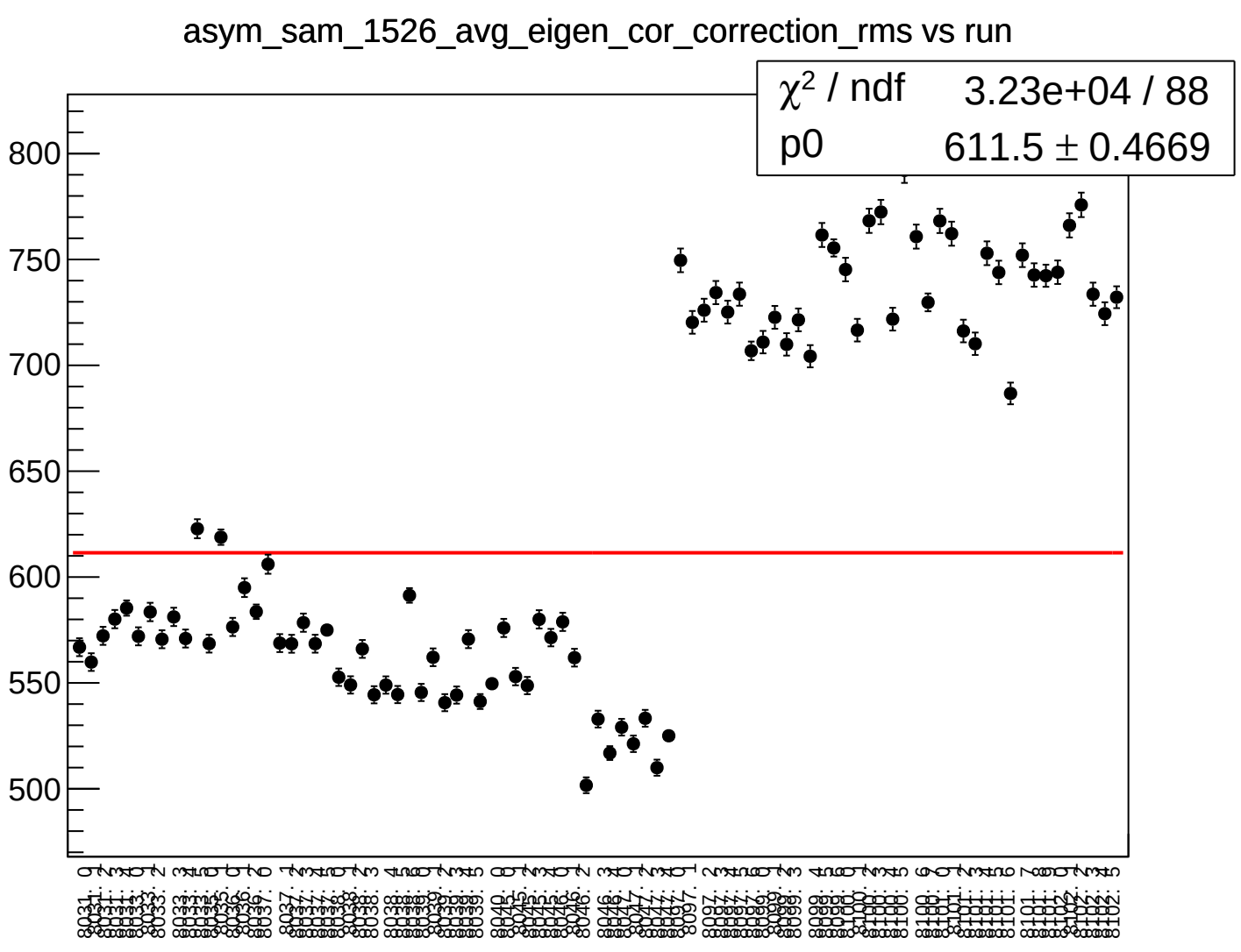

pull1D
Entries 89
Mean 0.005666
Std Dev 0.9199
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

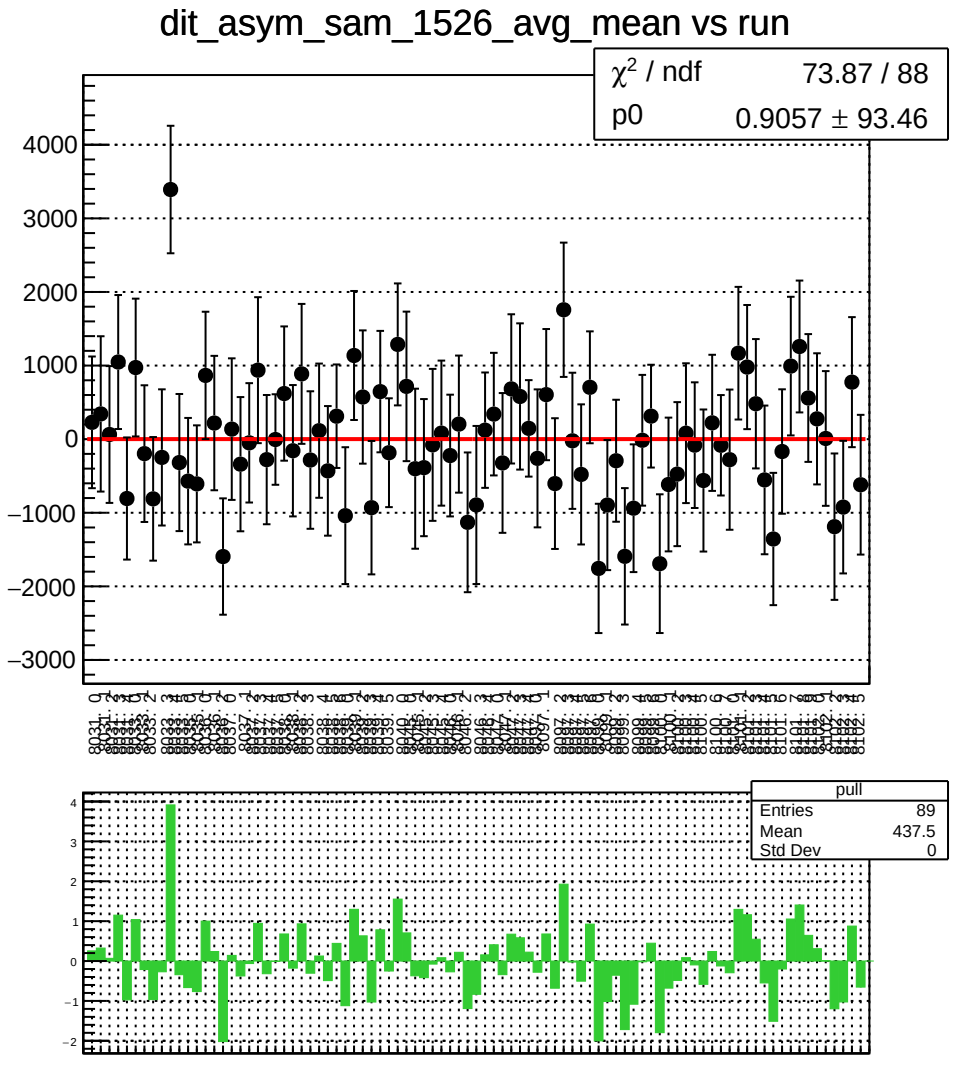

asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 3.23e+04 / 88
p0 611.5 ± 0.4669
800
750
700
650
600
550
500

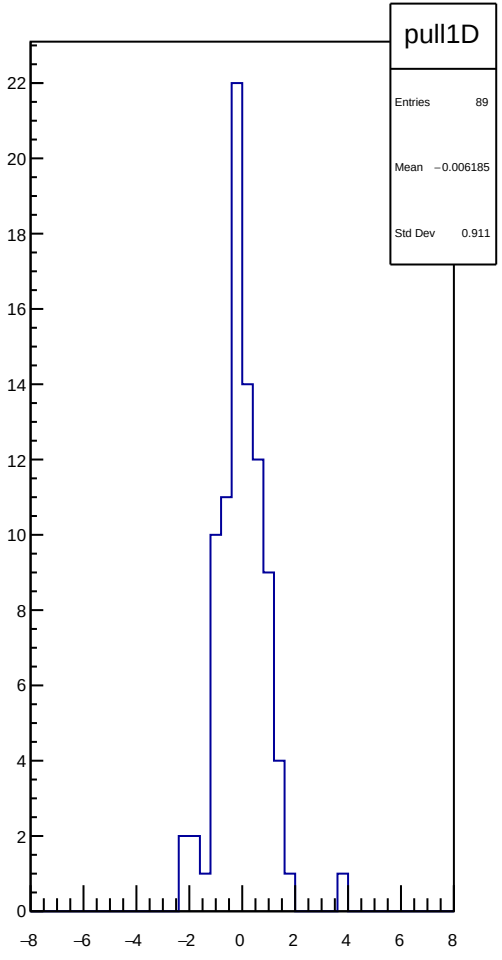

eigen_cor_asym_sam_1526_avg_mean vs run
χ² / ndf 79.84 / 88
p0 −0.8927 ± 88.17
pull
Entries 89
Mean 540.3
Std Dev 0
pull1D
Entries 89
Mean −0.006964
Std Dev 0.9471

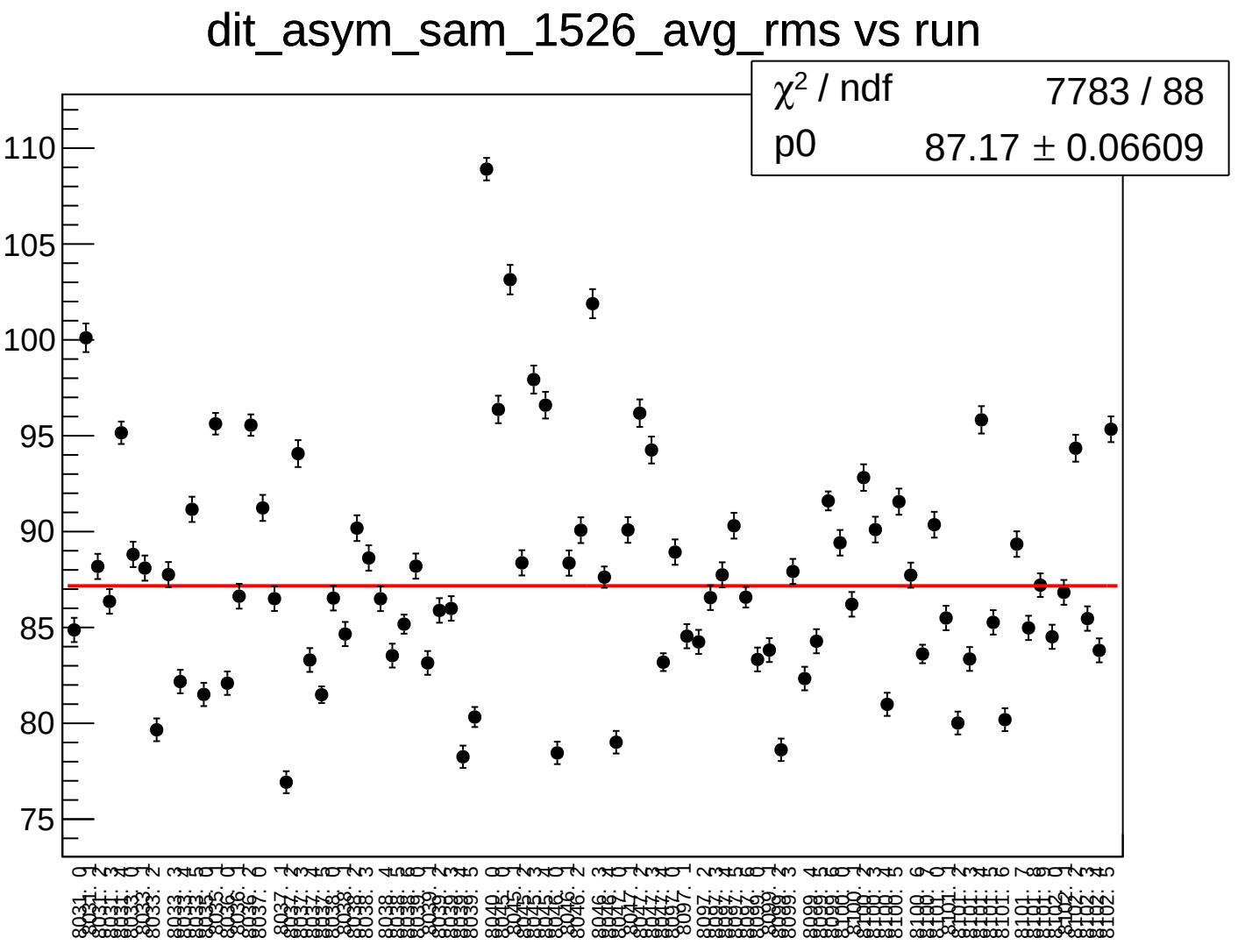

eigen_cor_asym_sam_1526_avg_rms vs run
χ² / ndf 9651 / 88
p0 82.19 ± 0.06235
105
100
95
90
85
80
75
70

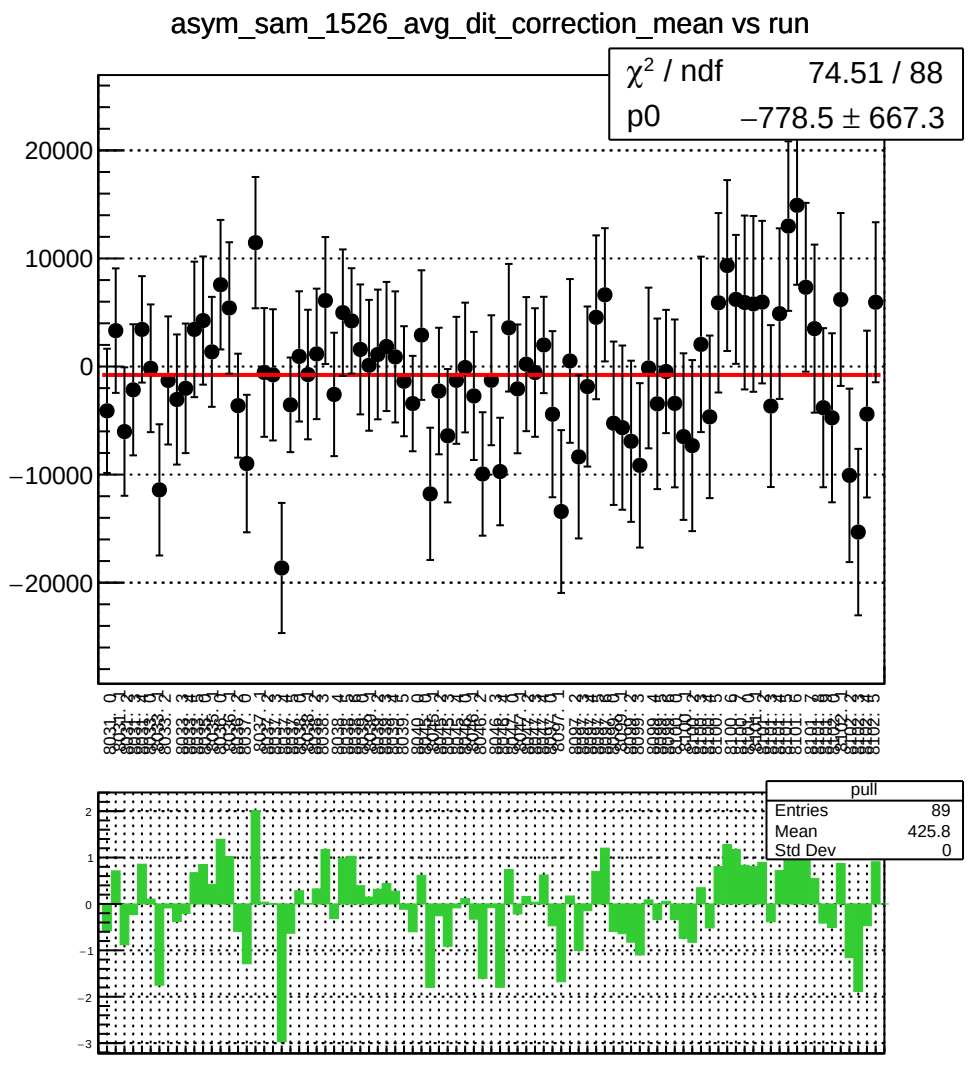

asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 75.32 / 88
p0 −792 ± 660.3
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 304.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.005666
Std Dev 0.9199
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

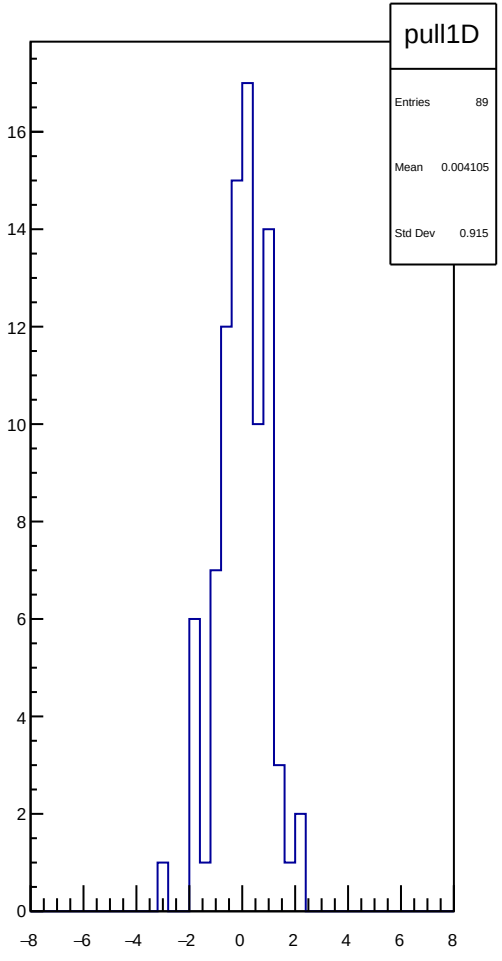

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.23e+04 / 88
p0 611.5 ± 0.4669
800
750
700
650
600
550
500

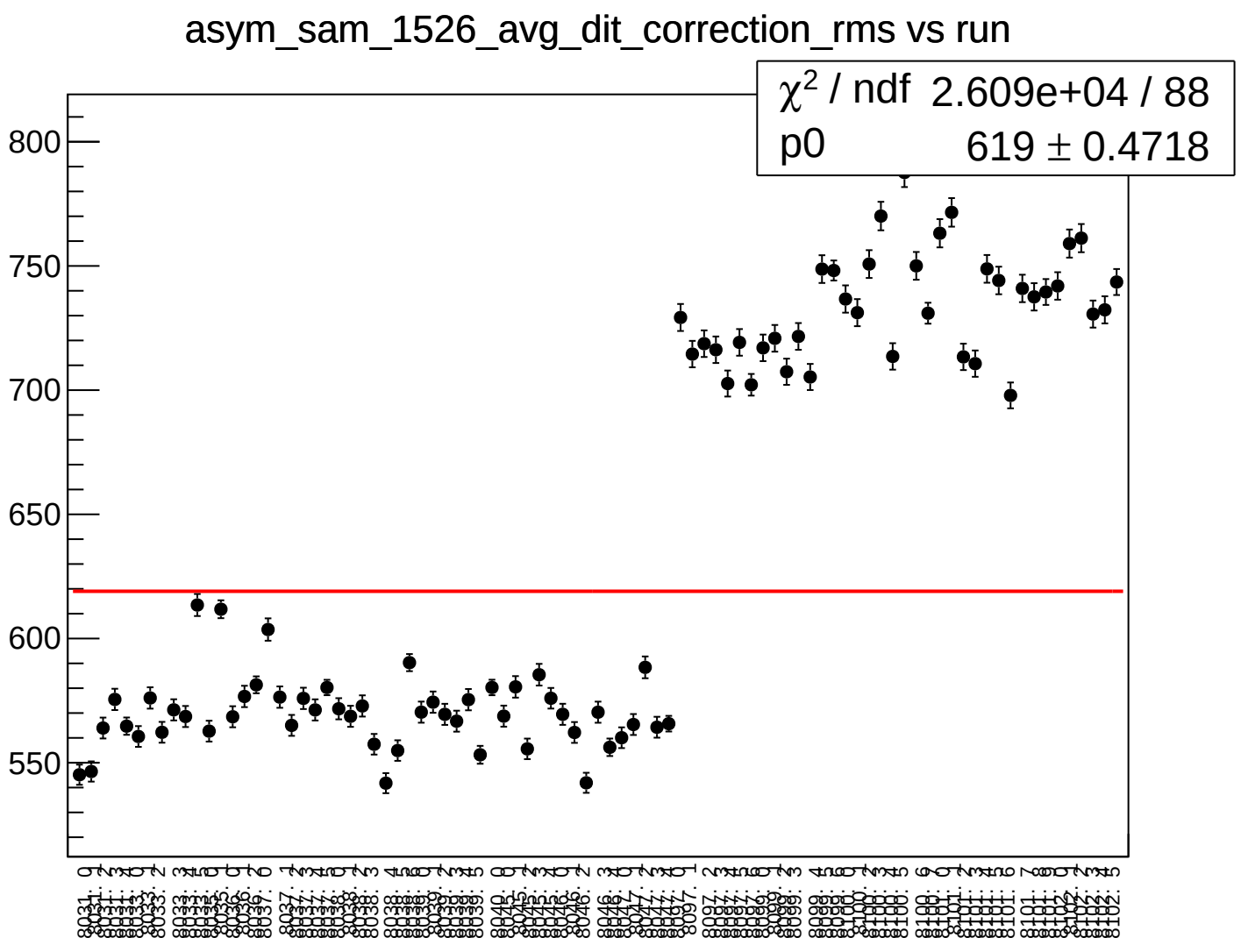

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 73.87 / 88
p0 0.9057 ± 93.46
pull
Entries 89
Mean 437.5
Std Dev 0

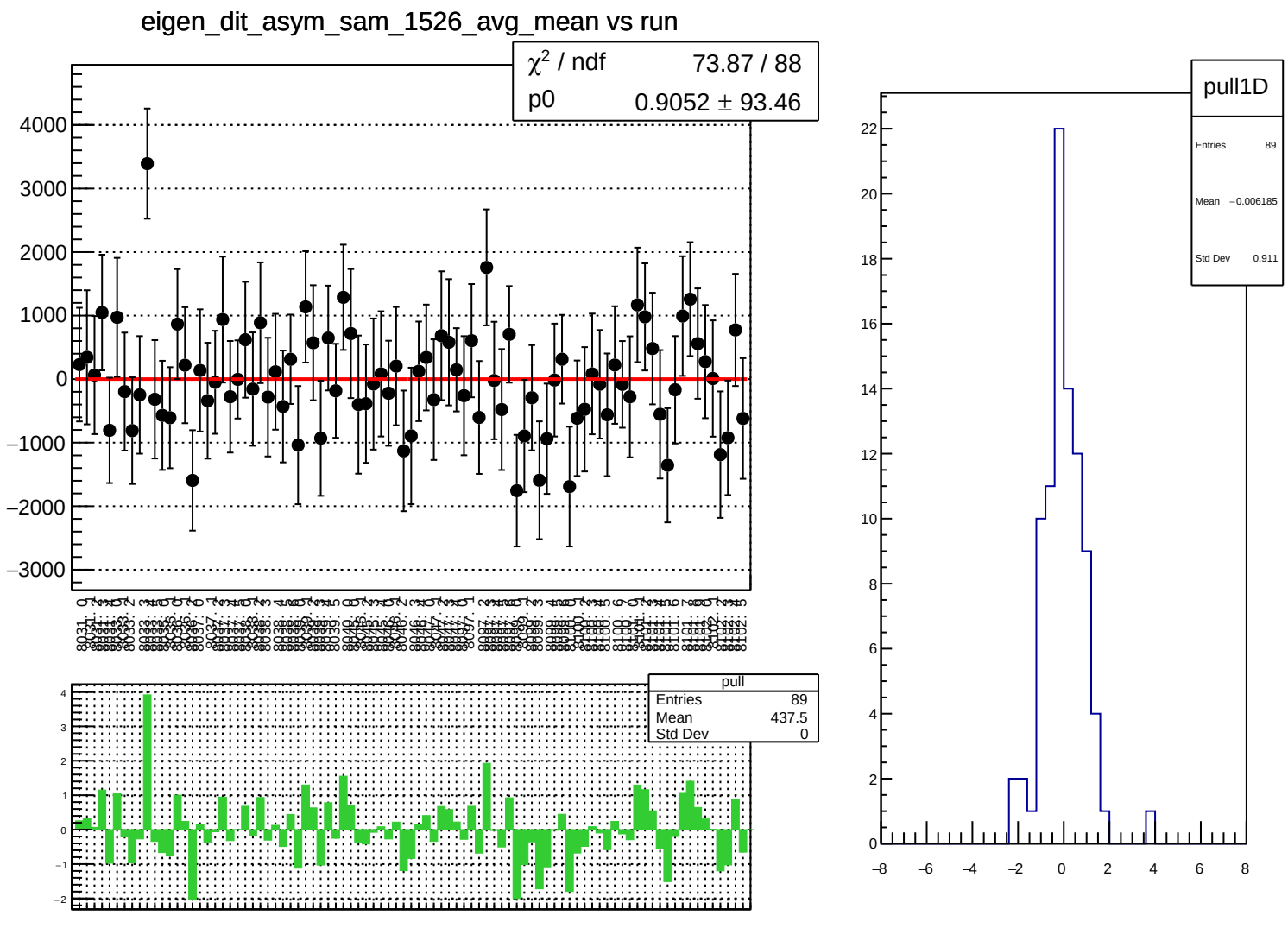

pull1D
Entries 89
Mean −0.006185
Std Dev 0.911

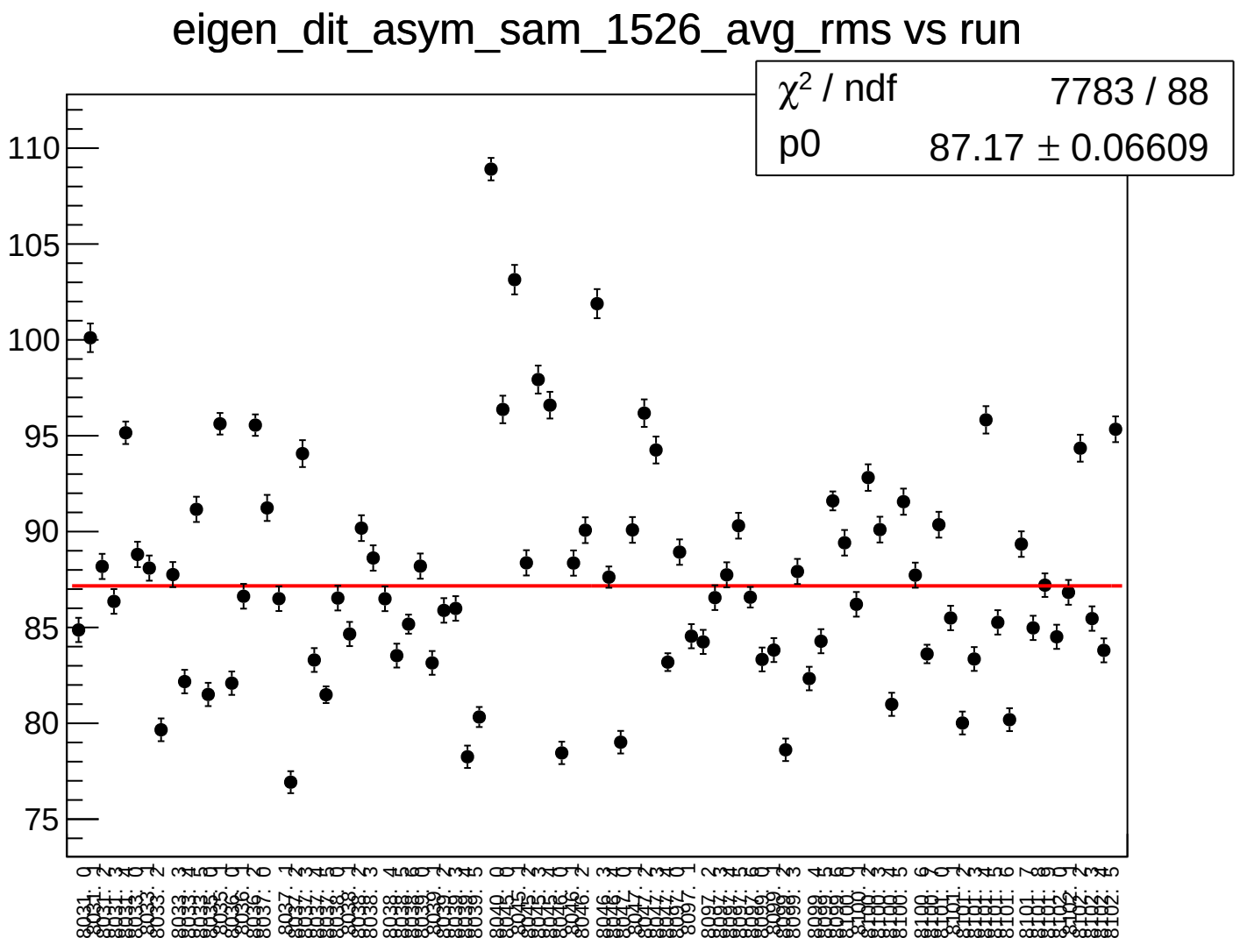

dit_asym_sam_1526_avg_rms vs run
χ² / ndf 7783 / 88
p0 87.17 ± 0.06609
110
105
100
95
90
85
80
75

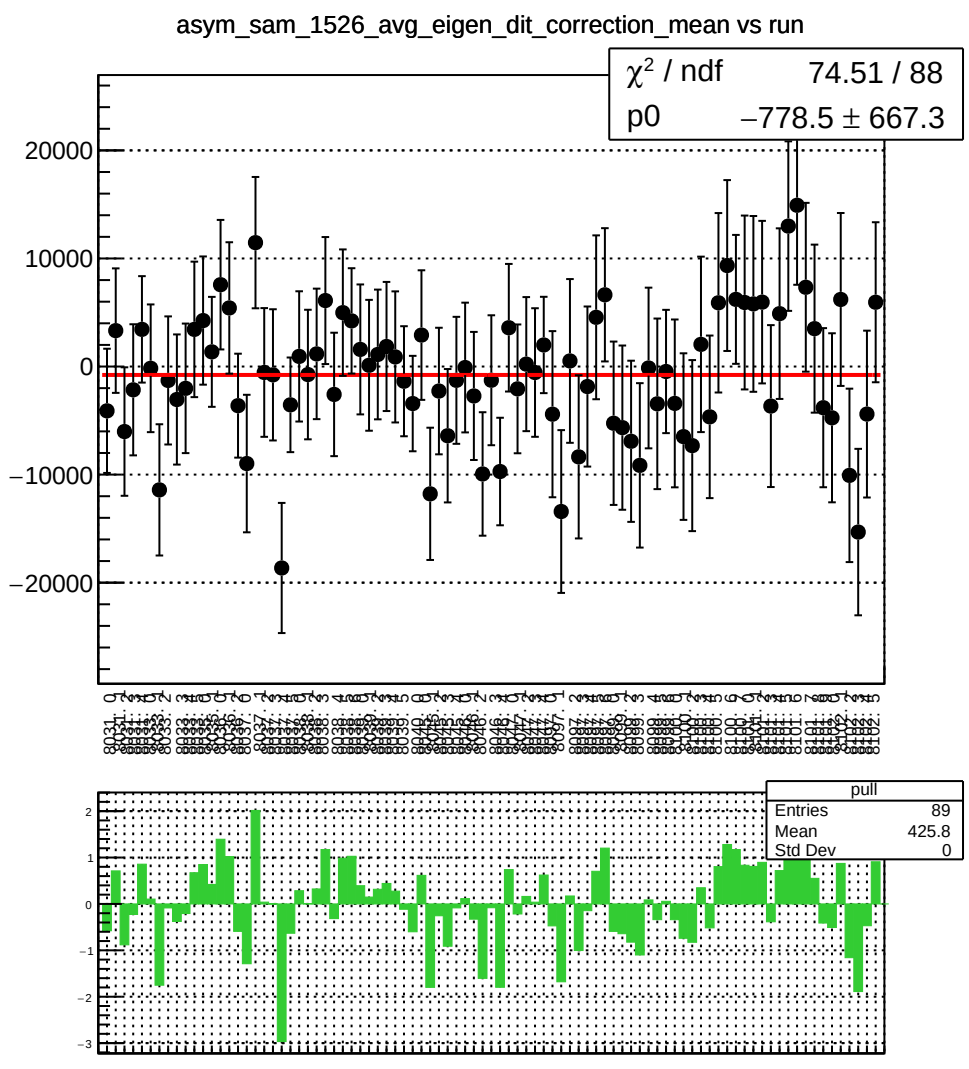

asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 74.51 / 88
p0 −778.5 ± 667.3
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 425.8
Std Dev 0
2
1
0
−1
−2
−3

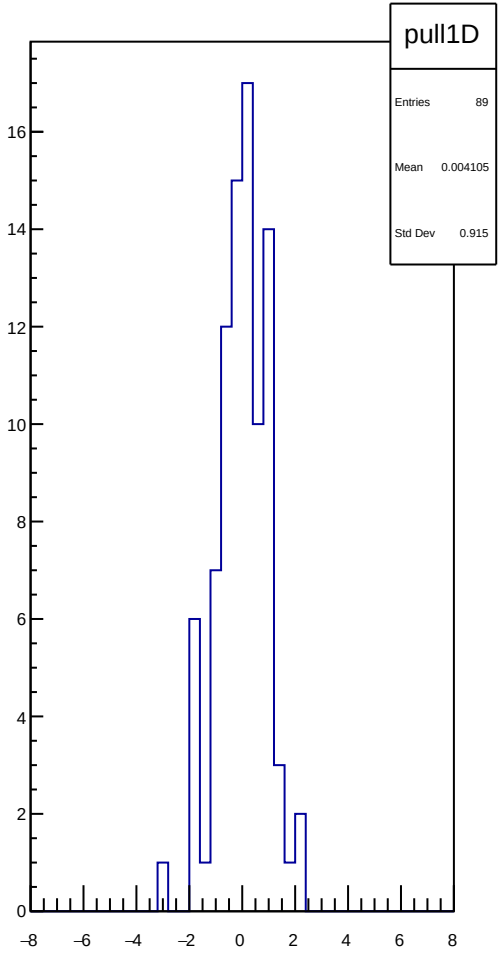

pull1D
Entries 89
Mean 0.004105
Std Dev 0.915
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

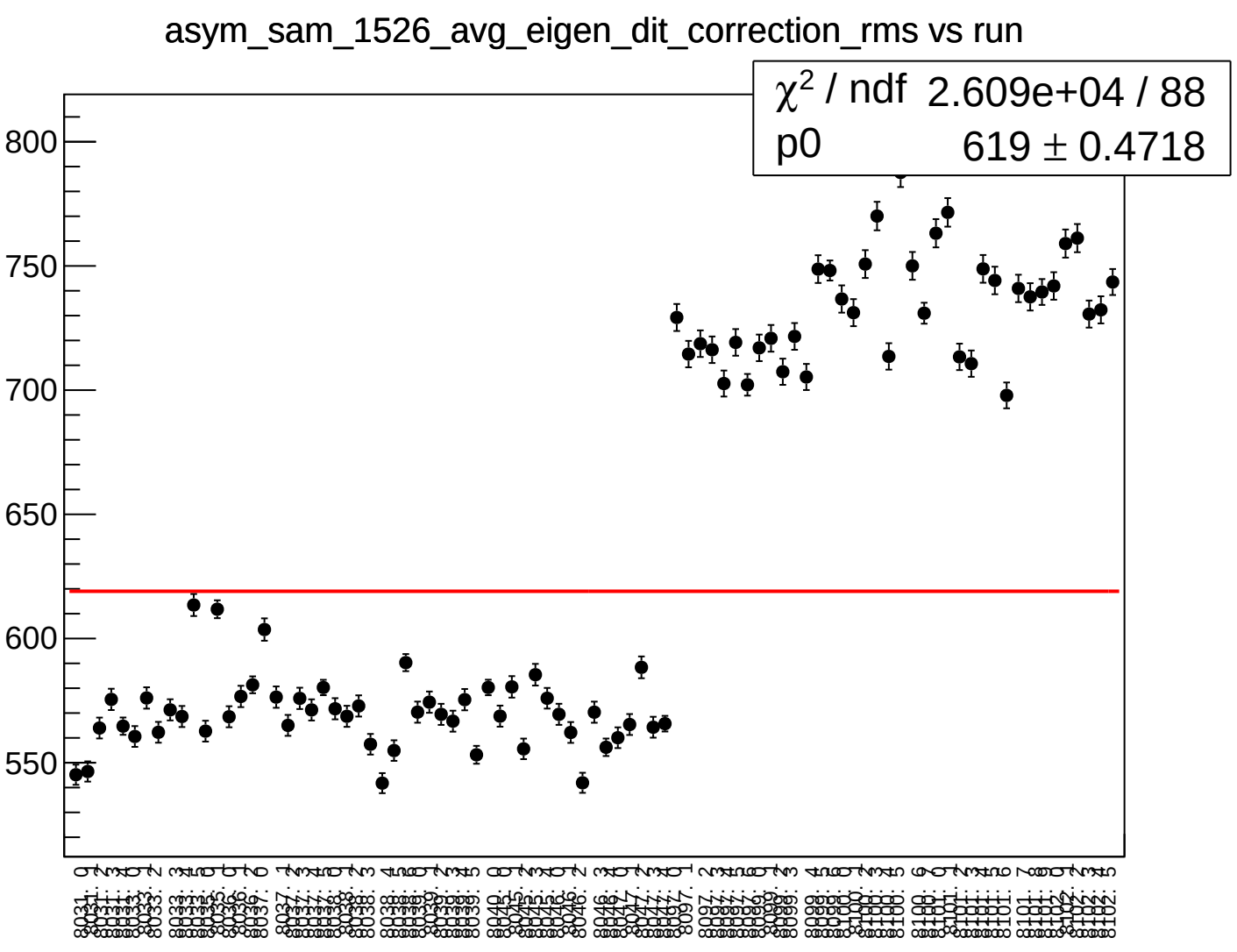

asym_sam_1526_avg_dit_correction_rms vs run
$\chi^2$ / ndf 2.609e+04 / 88
p0 619 ± 0.4718
800
750
700
650
600
550

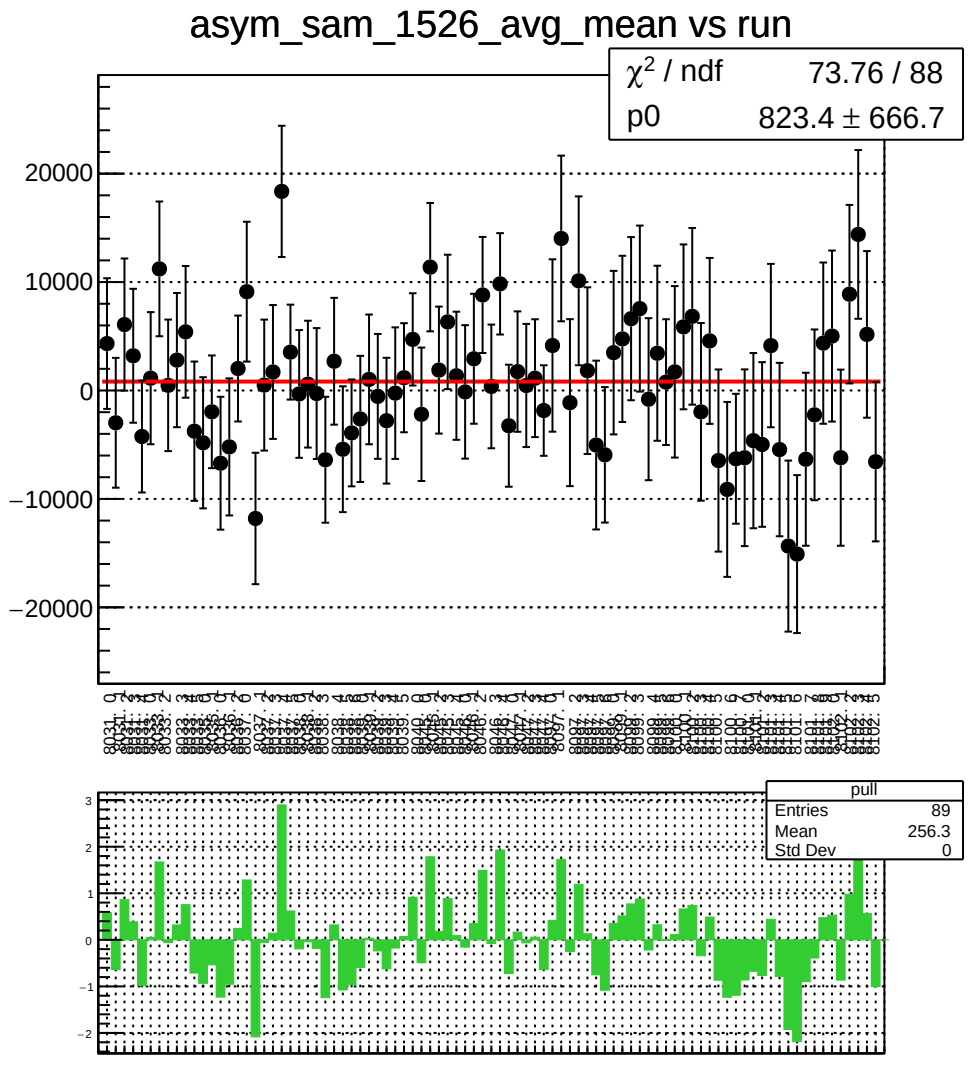

eigen_dit_asym_sam_1526_avg_mean vs run
χ² / ndf 73.87 / 88
p0 0.9052 ± 93.46
pull
Entries 89
Mean 437.5
Std Dev 0
pull1D
Entries 89
Mean −0.006185
Std Dev 0.911

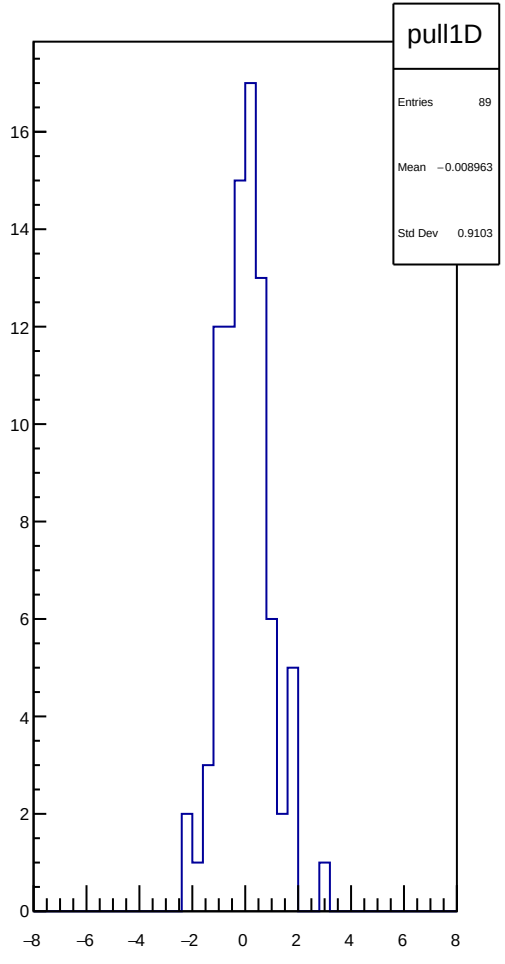

eigen_dit_asym_sam_1526_avg_rms vs run
χ² / ndf 7783 / 88
p0 87.17 ± 0.06609
110
105
100
95
90
85
80
75

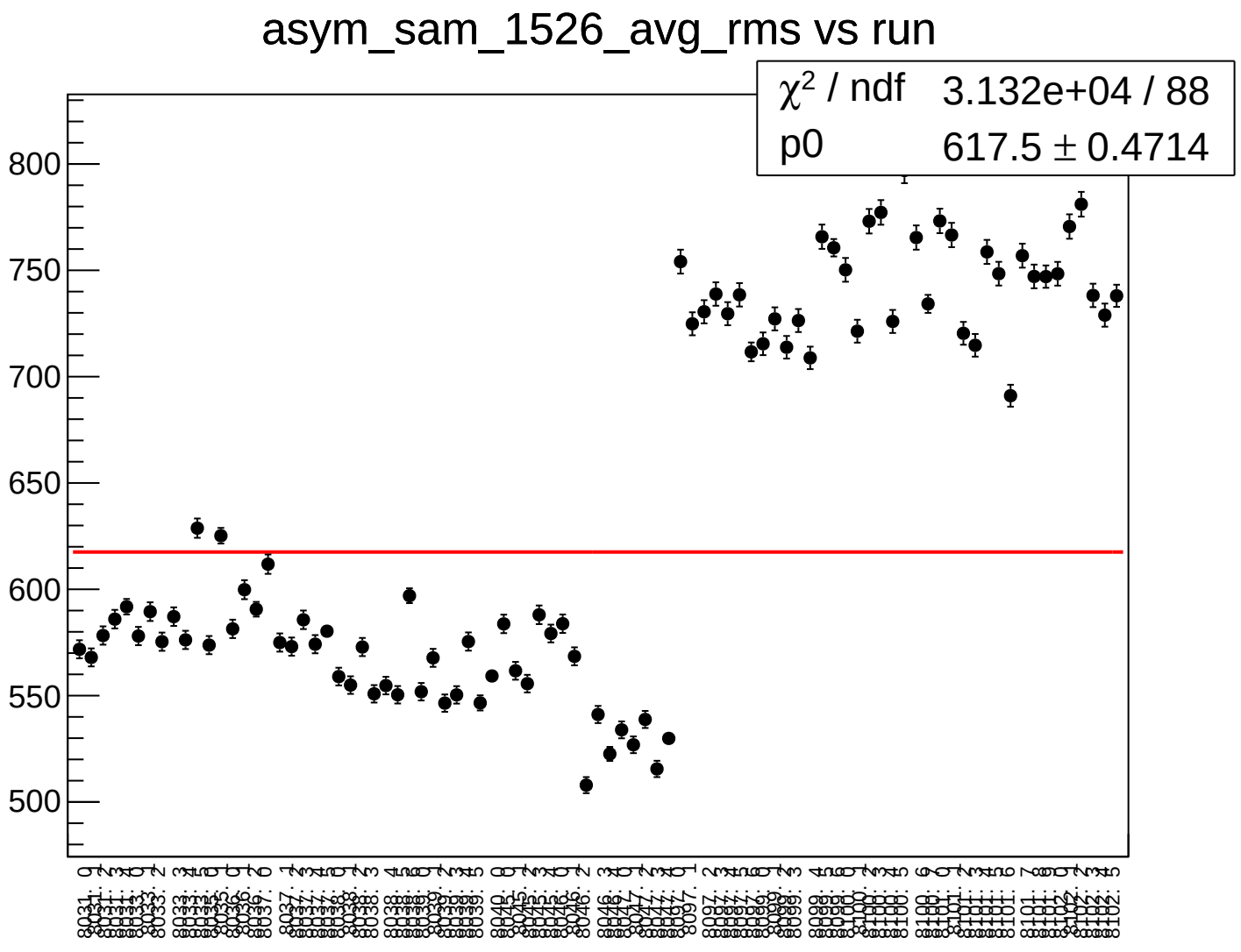

asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 74.51 / 88
p0 −778.5 ± 667.3
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 425.8
Std Dev 0
2
1
0
−1
−2
−3

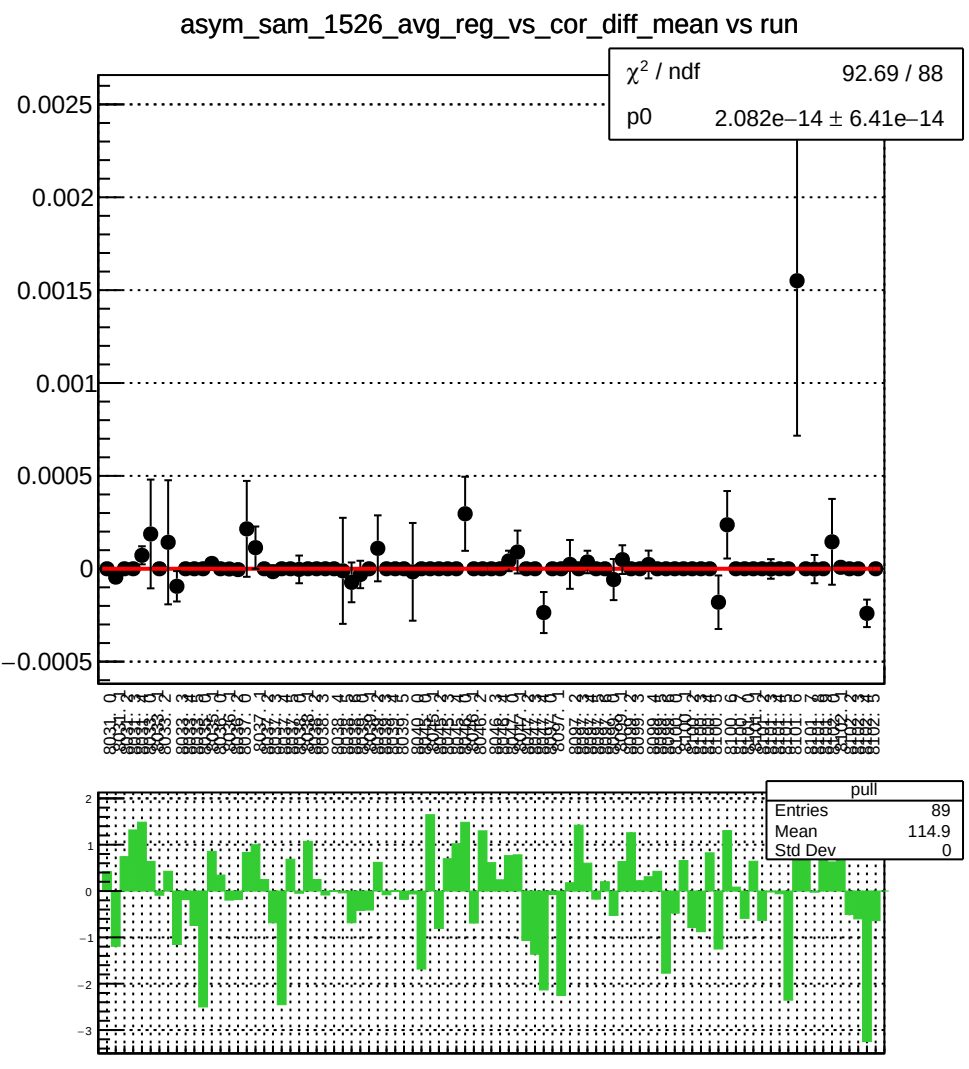

pull1D
Entries 89
Mean 0.004105
Std Dev 0.915
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

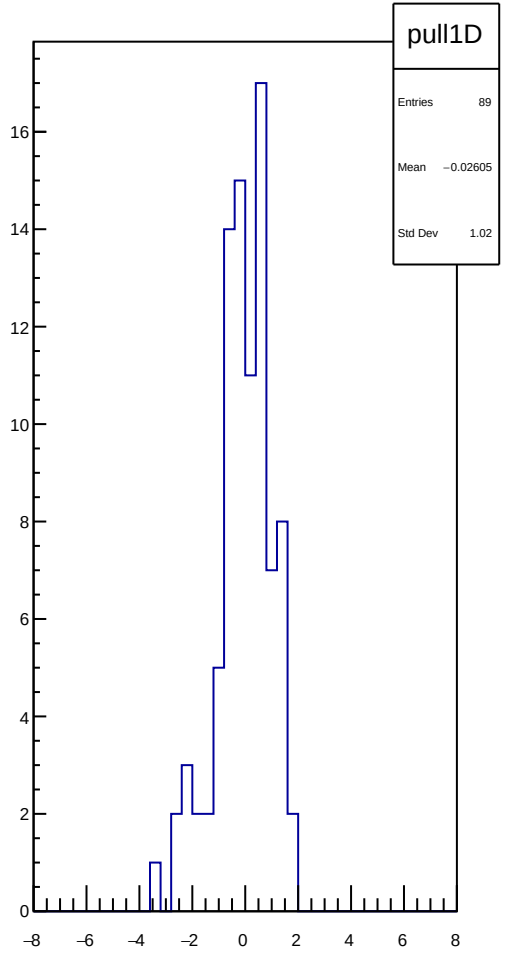

asym_sam_1526_avg_eigen_dit_correction_rms vs run
$\chi^2$ / ndf 2.609e+04 / 88
p0 619 ± 0.4718
800
750
700
650
600
550

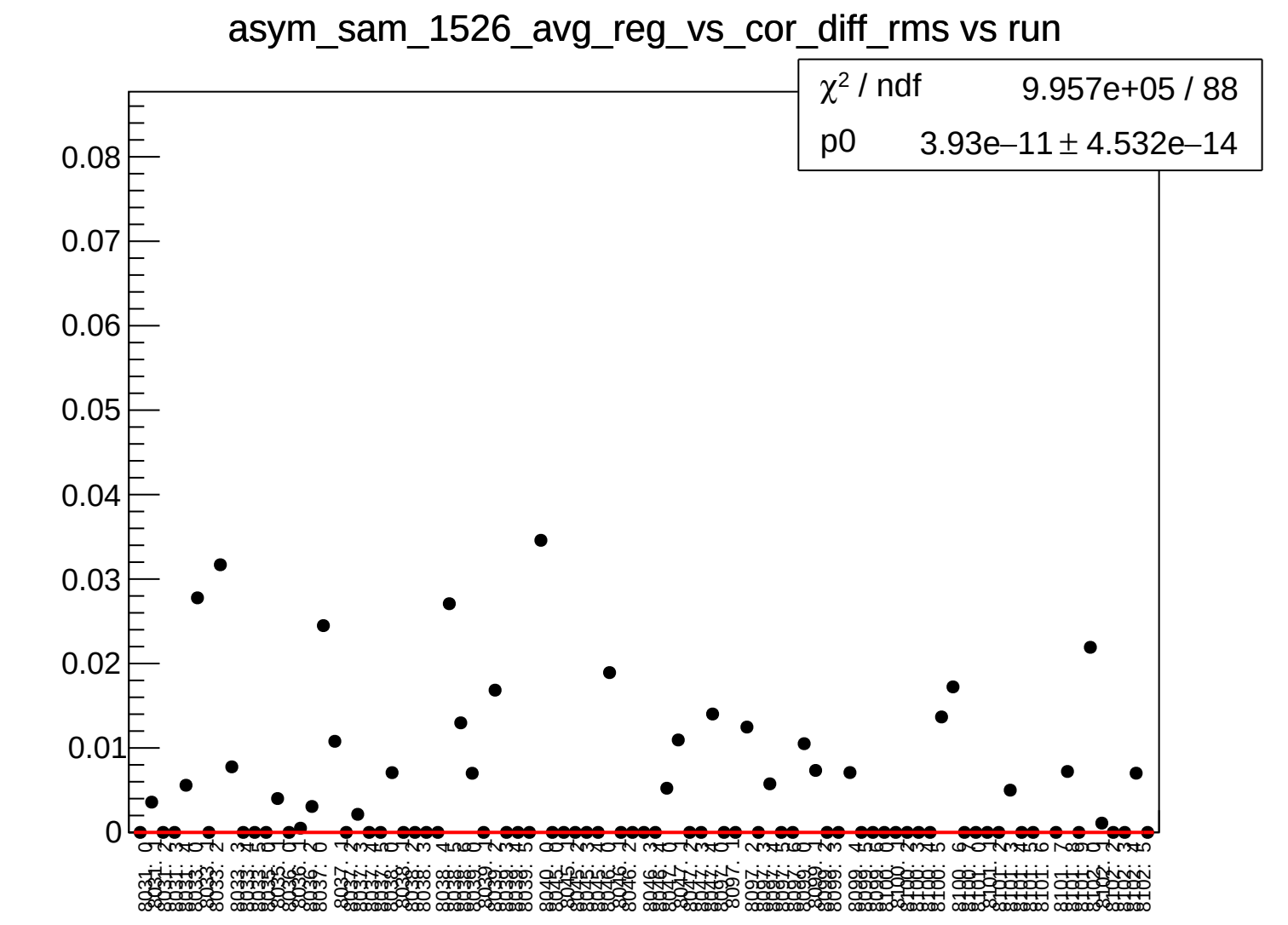

asym_sam_1526_avg_mean vs run
χ² / ndf 73.76 / 88
p0 823.4 ± 666.7
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 256.3
Std Dev 0
3
2
1
0
−1
−2

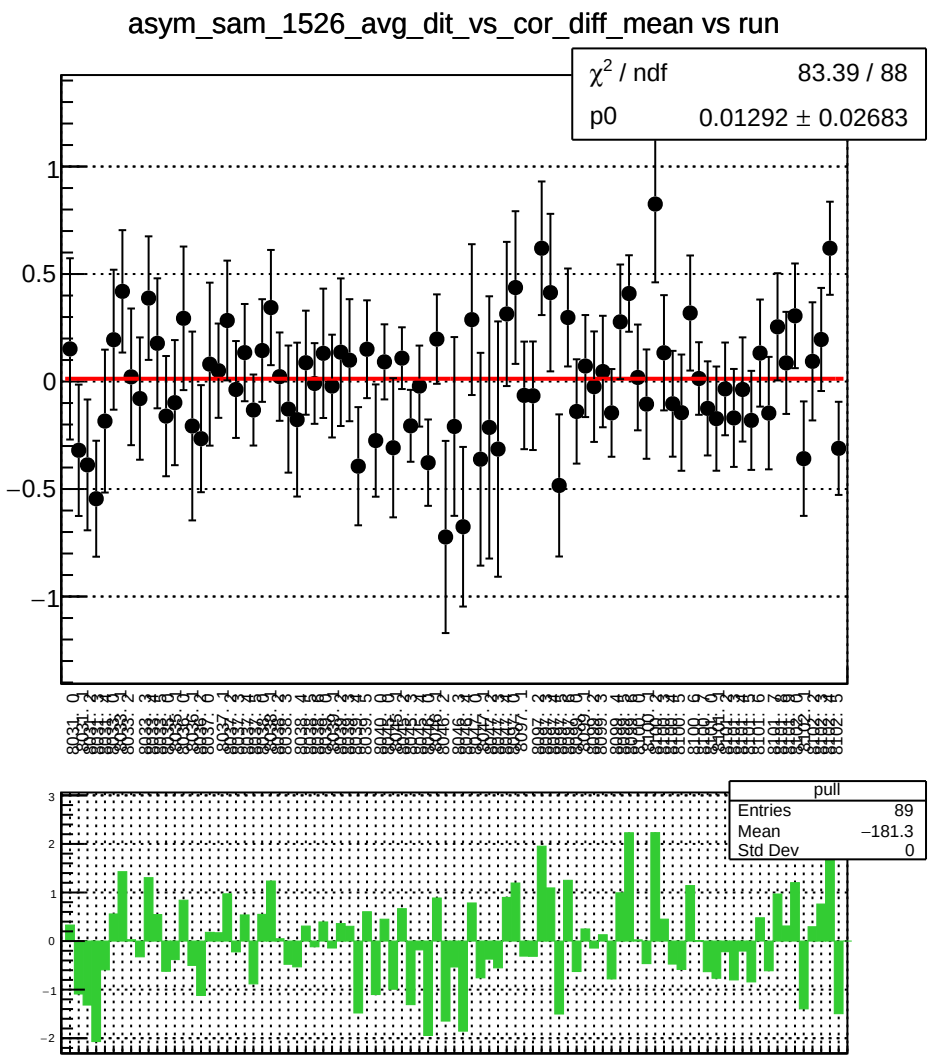

pull1D
Entries 89
Mean −0.008963
Std Dev 0.9103
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

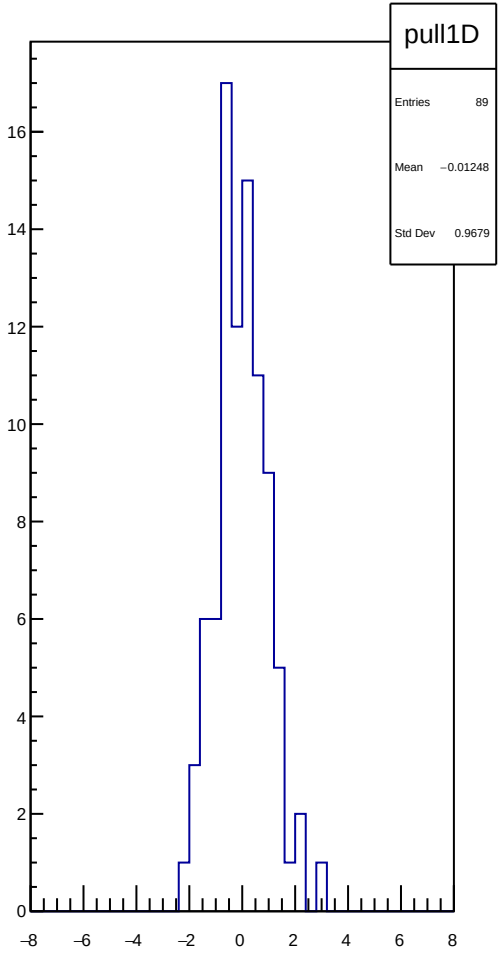

asym_sam_1526_avg_rms vs run
χ² / ndf 3.132e+04 / 88
p0 617.5 ± 0.4714
800
750
700
650
600
550
500

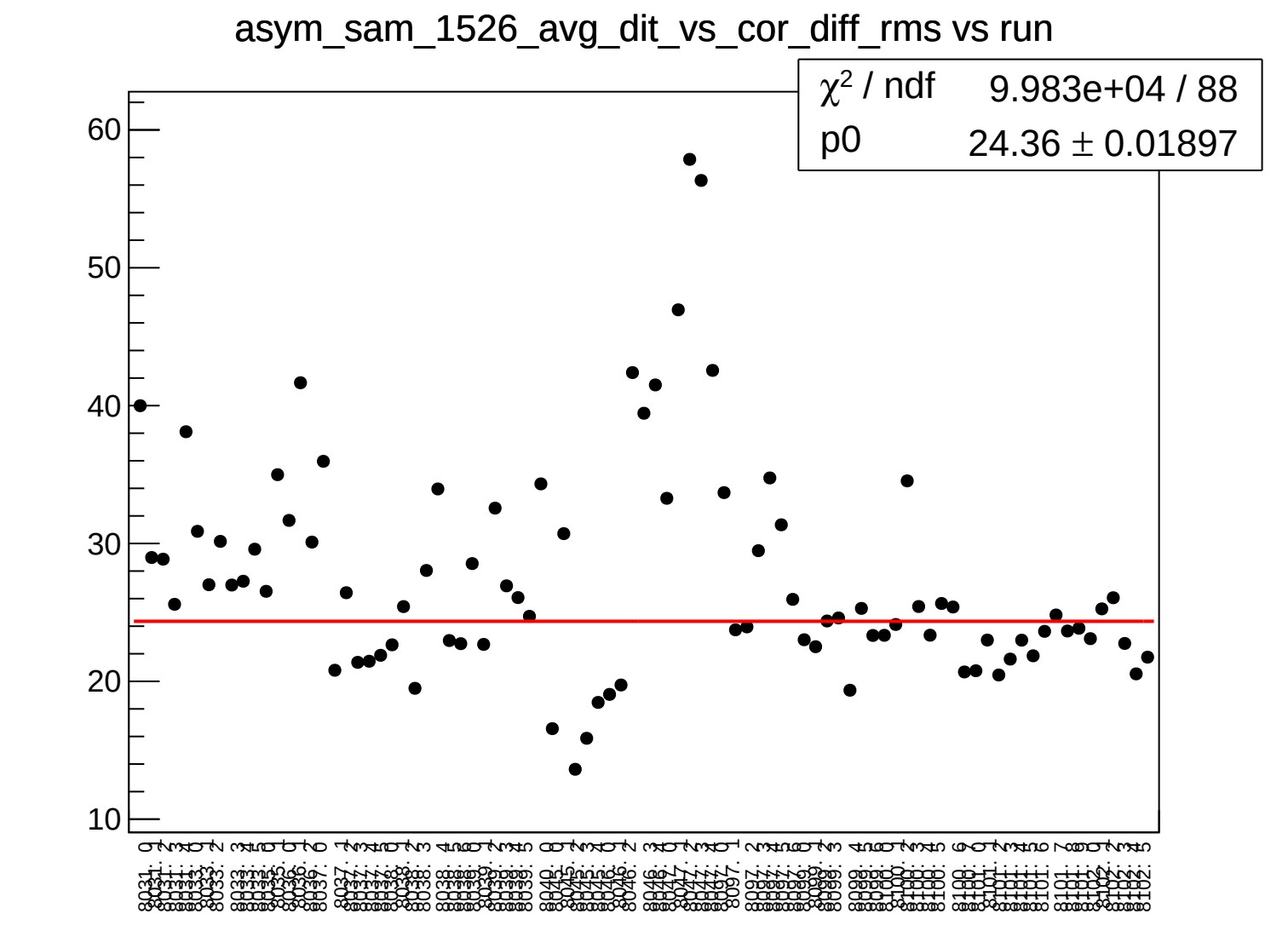

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 92.69 / 88
p0 2.082e−14 ± 6.41e−14
0.0025
0.002
0.0015
0.001
0.0005
0
−0.0005
pull
Entries 89
Mean 114.9
Std Dev 0
2
1
0
−1
−2
−3

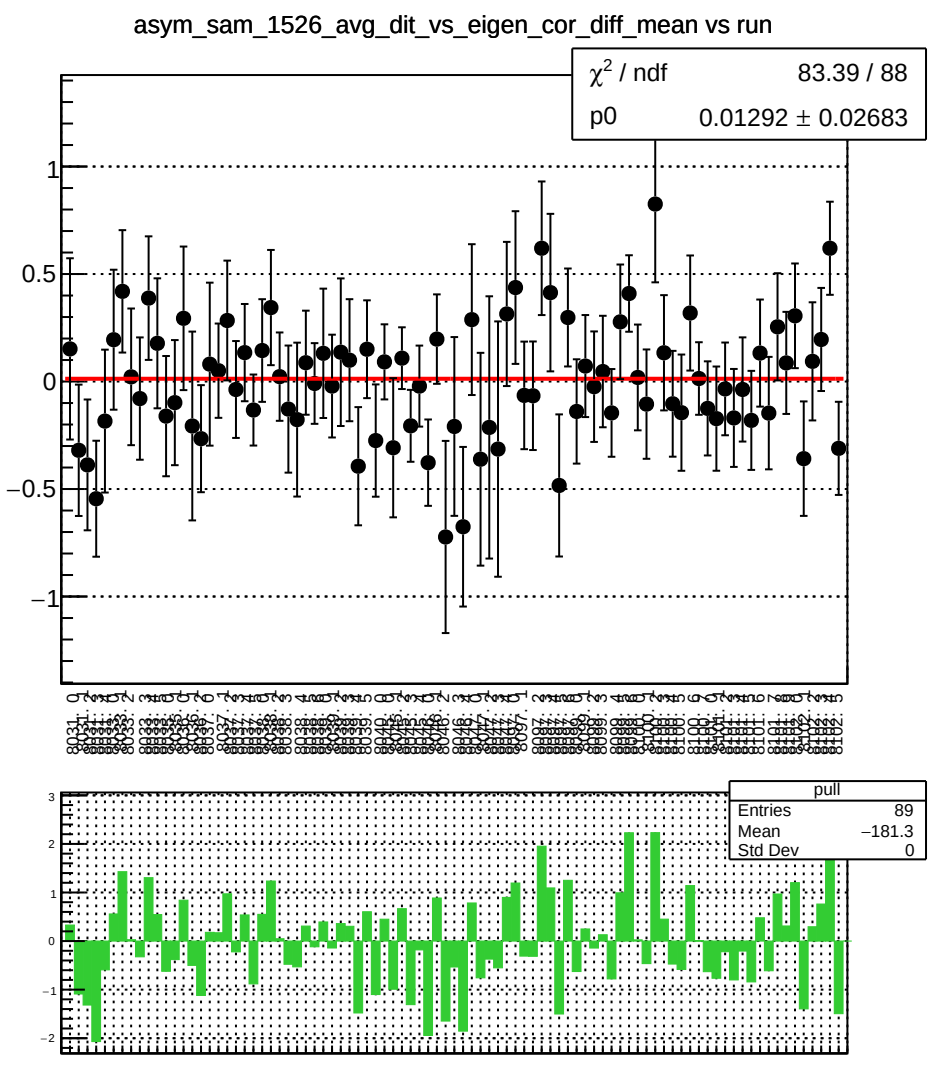

pull1D
Entries 89
Mean −0.02605
Std Dev 1.02
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

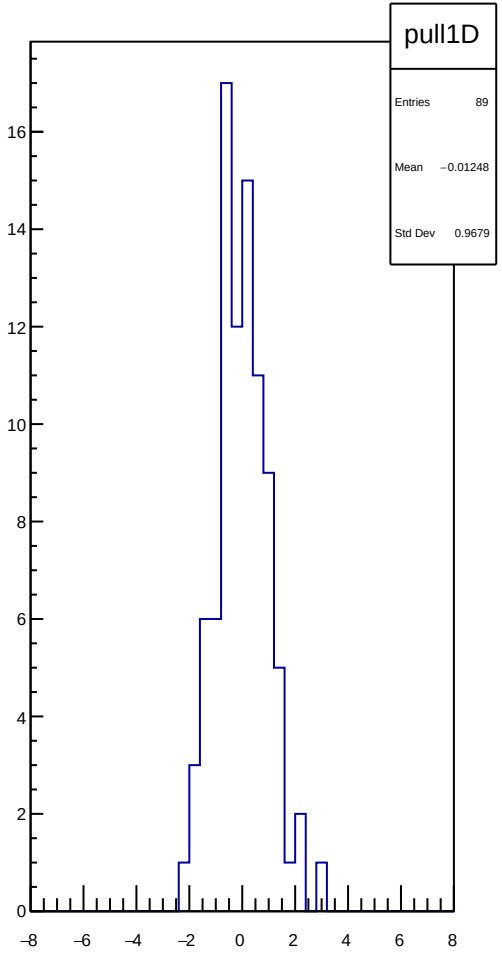

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.957e+05 / 88
p0 3.93e−11 ± 4.532e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

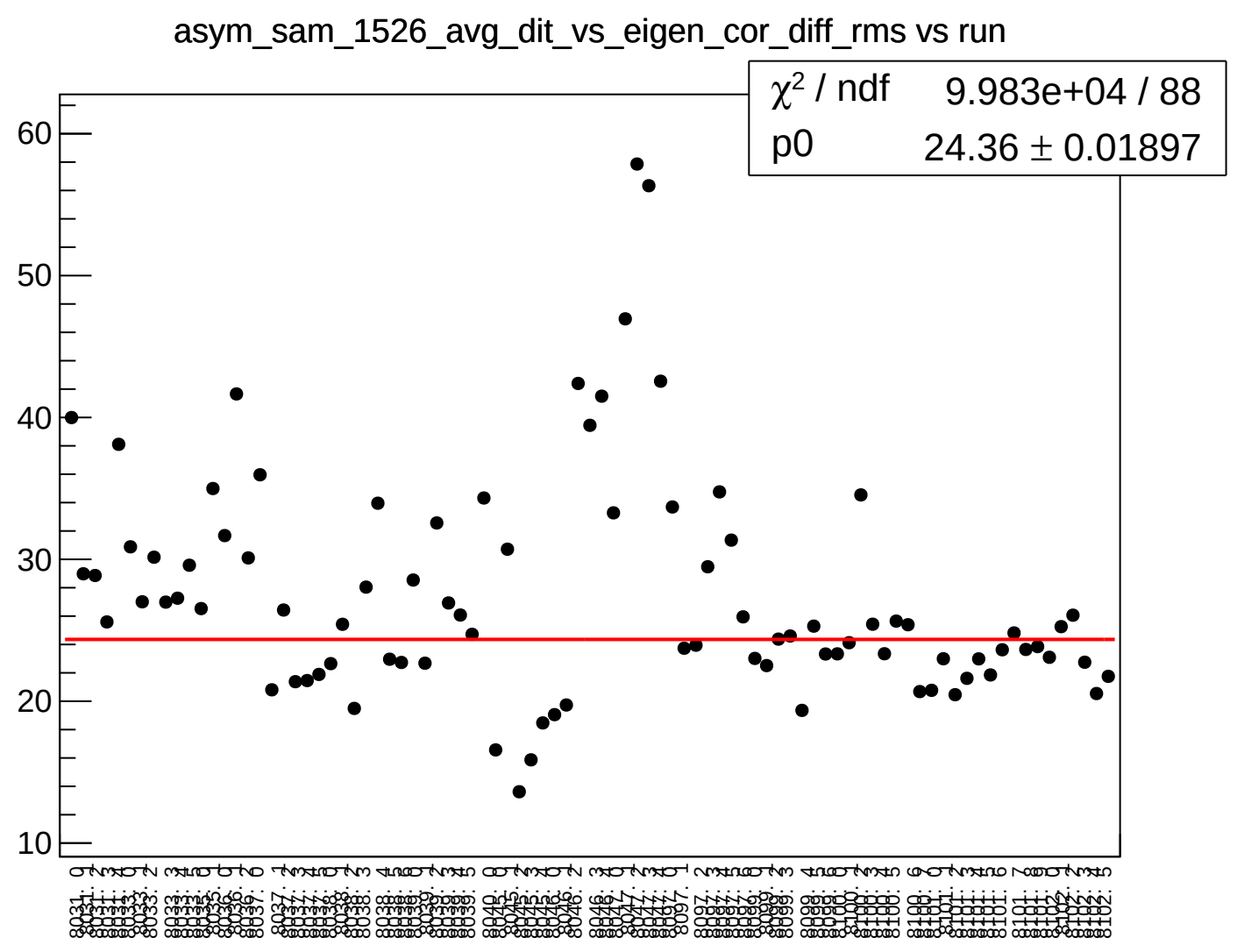

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 83.39 / 88
p0 0.01292 ± 0.02683
pull
Entries 89
Mean −181.3
Std Dev 0

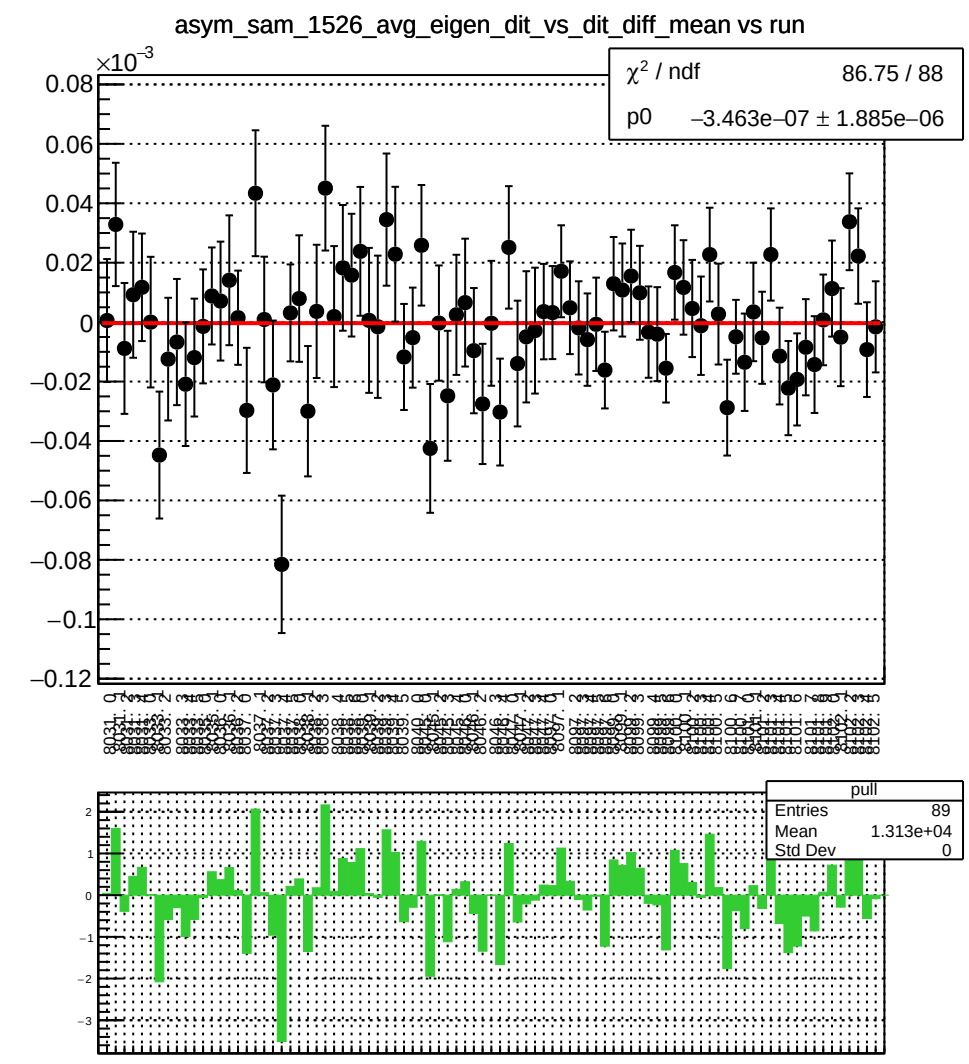

pull1D
Entries 89
Mean −0.01248
Std Dev 0.9679

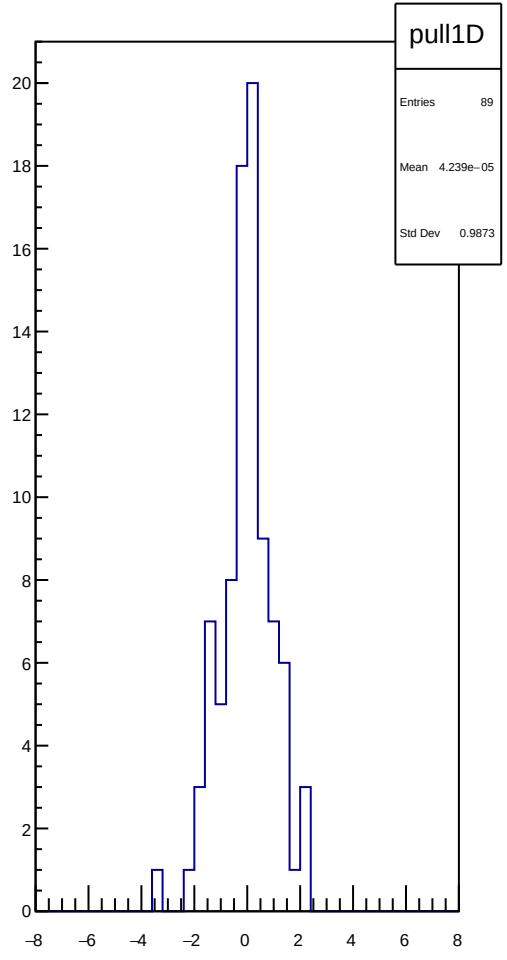

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9.983e+04 / 88
p0 24.36 ± 0.01897
60
50
40
30
20
10

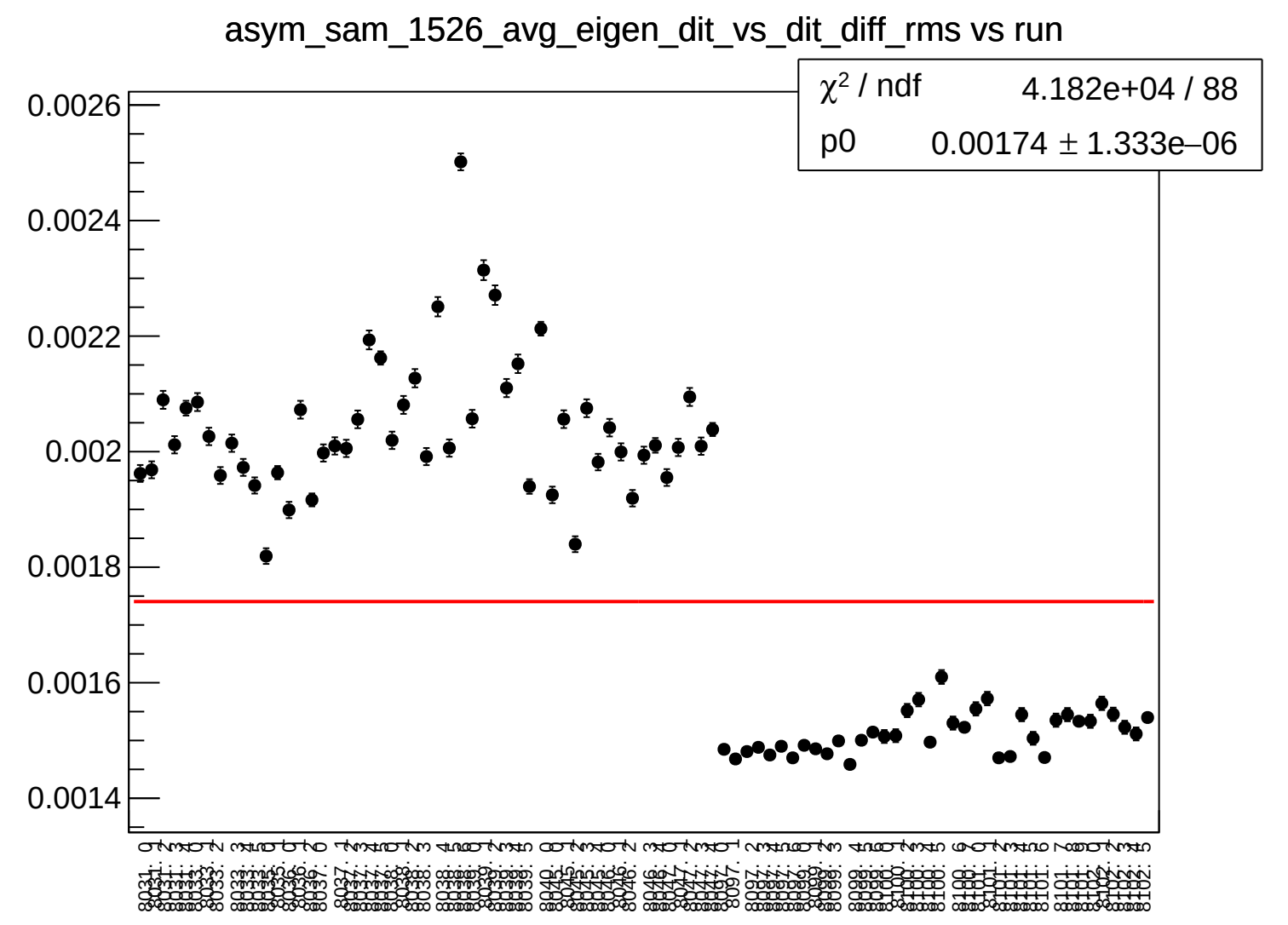

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.39 / 88
p0 0.01292 ± 0.02683
pull
Entries 89
Mean −181.3
Std Dev 0

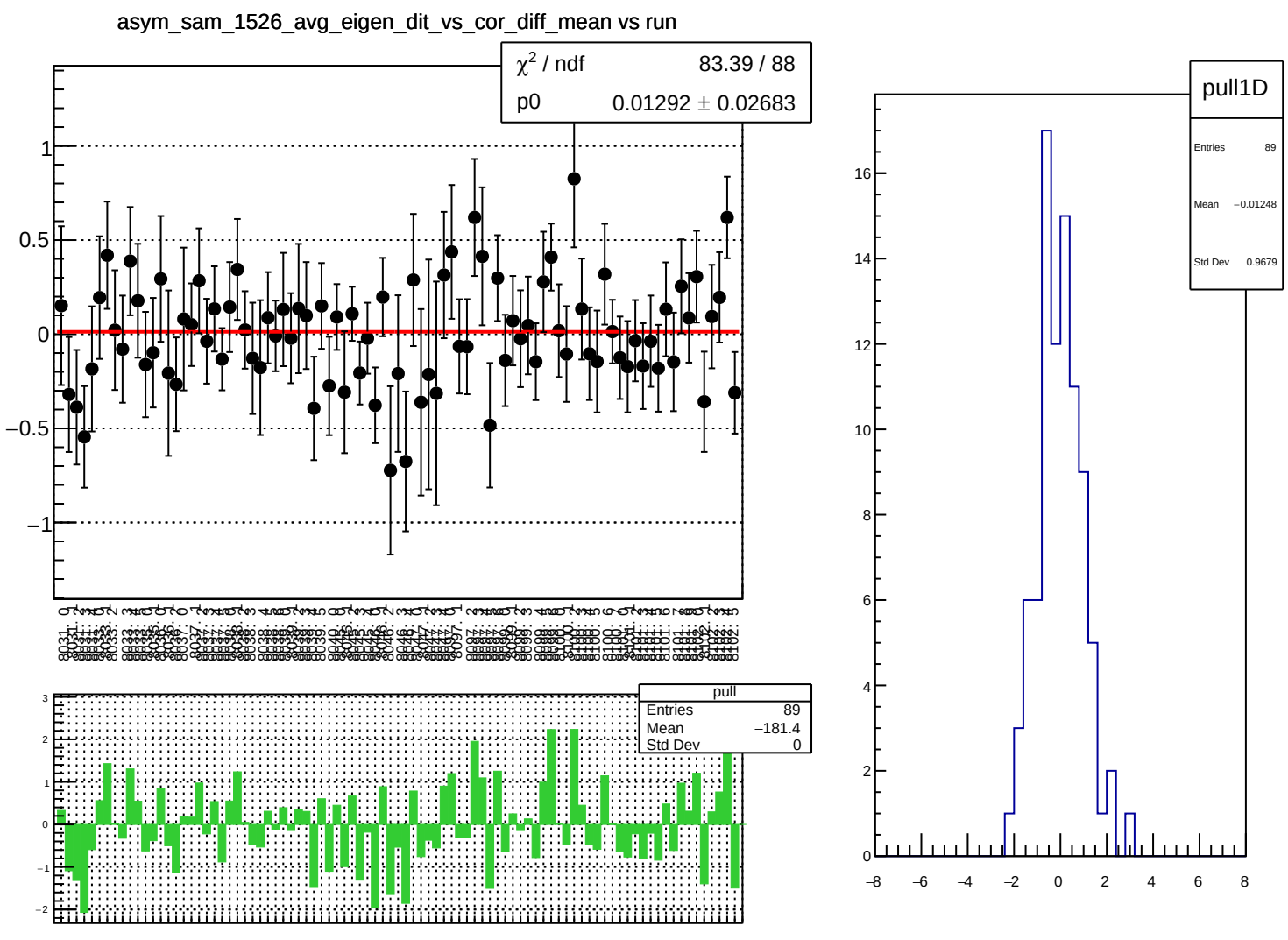

pull1D
Entries 89
Mean −0.01248
Std Dev 0.9679

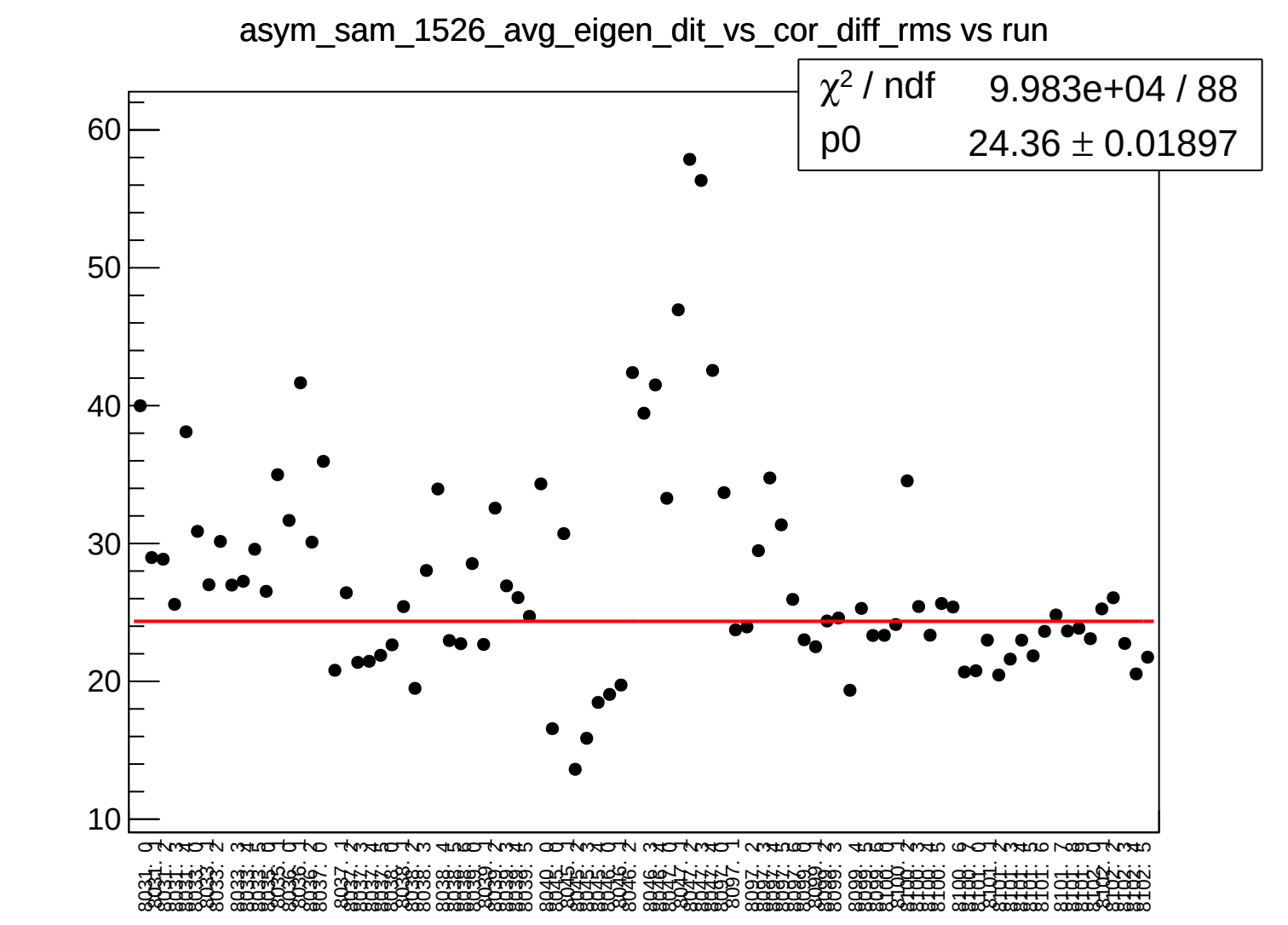

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.983e+04 / 88
p0 24.36 ± 0.01897
60
50
40
30
20
10

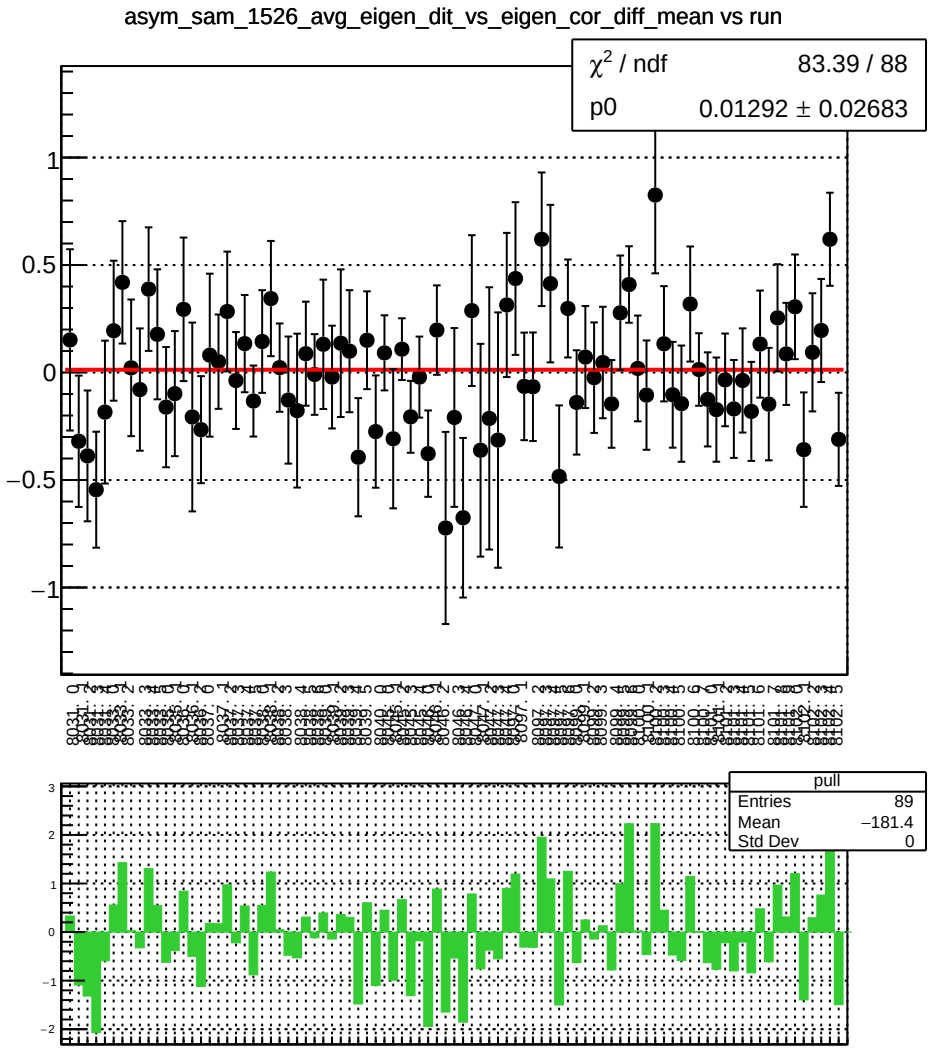

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.75 / 88
p0 −3.463e−07 ± 1.885e−06
pull
Entries 89
Mean 1.313e+04
Std Dev 0

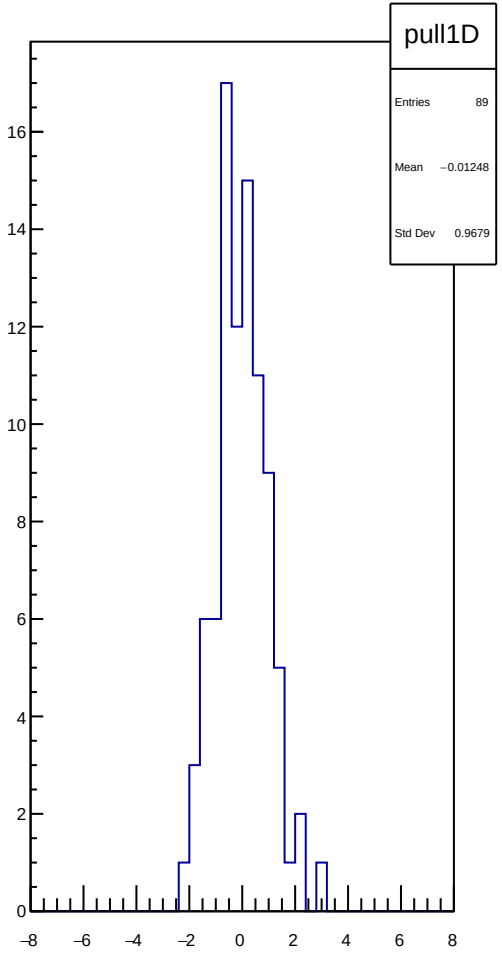

pull1D
Entries 89
Mean 4.239e−05
Std Dev 0.9873

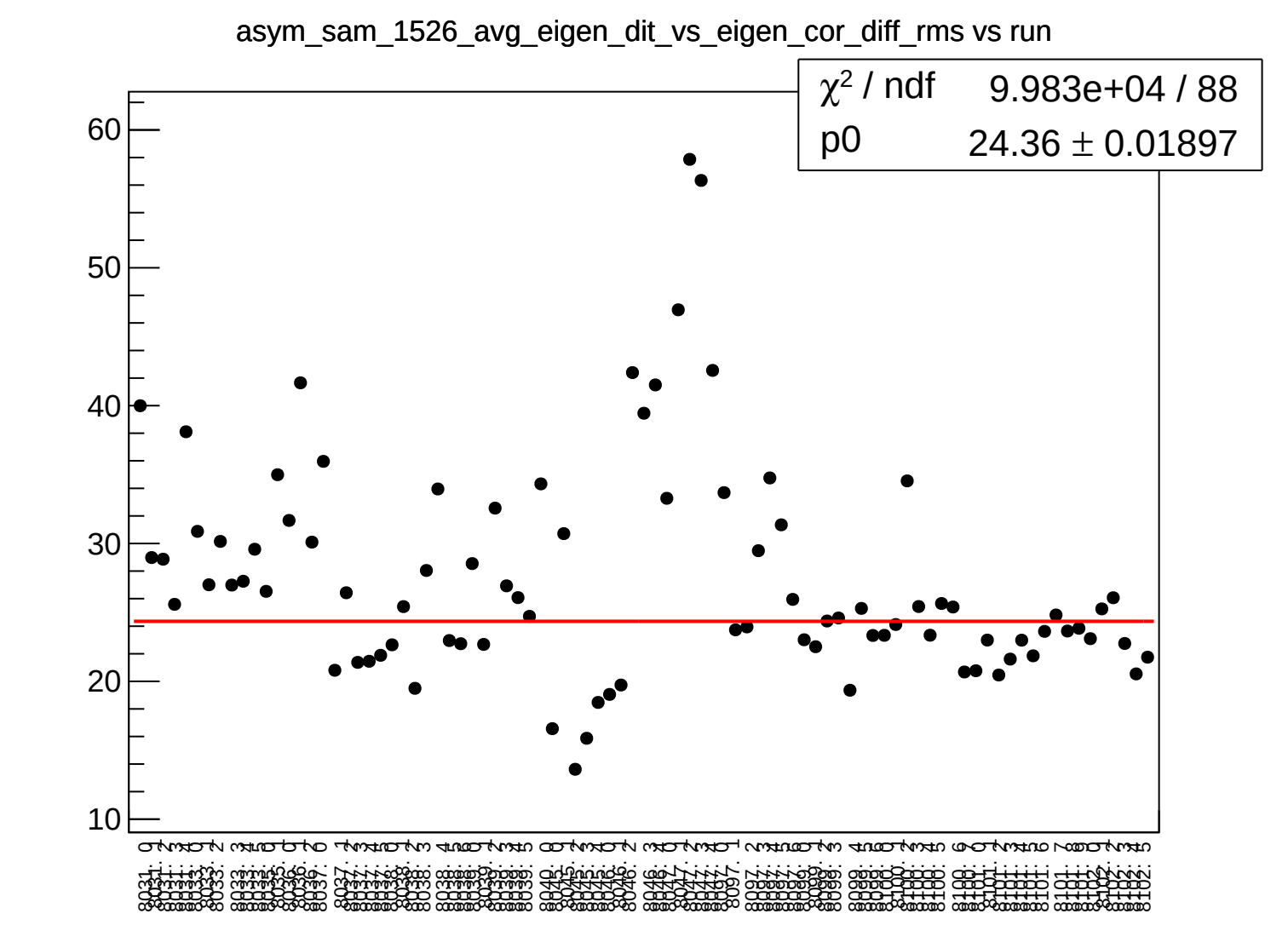

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.182e+04 / 88
p0 0.00174 ± 1.333e–06
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014

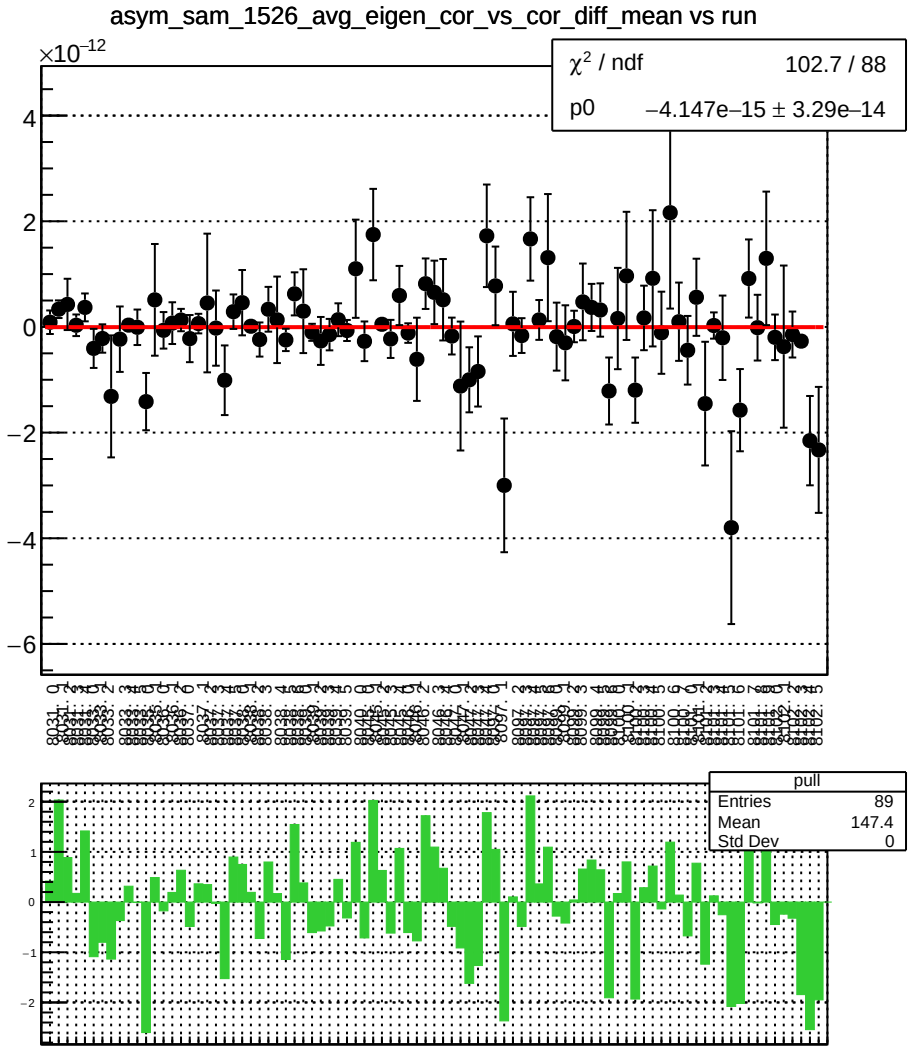

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.39 / 88
p0 0.01292 ± 0.02683
pull
Entries 89
Mean −181.4
Std Dev 0
pull1D
Entries 89
Mean −0.01248
Std Dev 0.9679

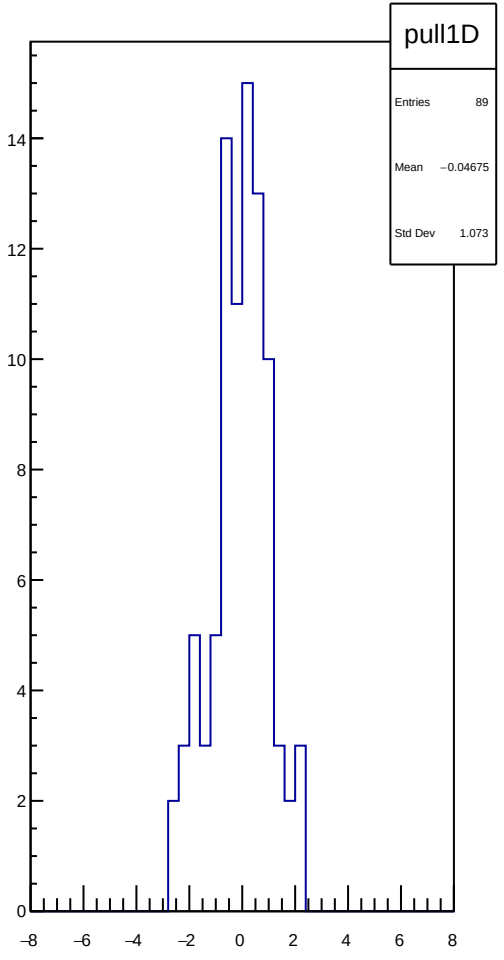

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.983e+04 / 88
p0 24.36 ± 0.01897
60
50
40
30
20
10

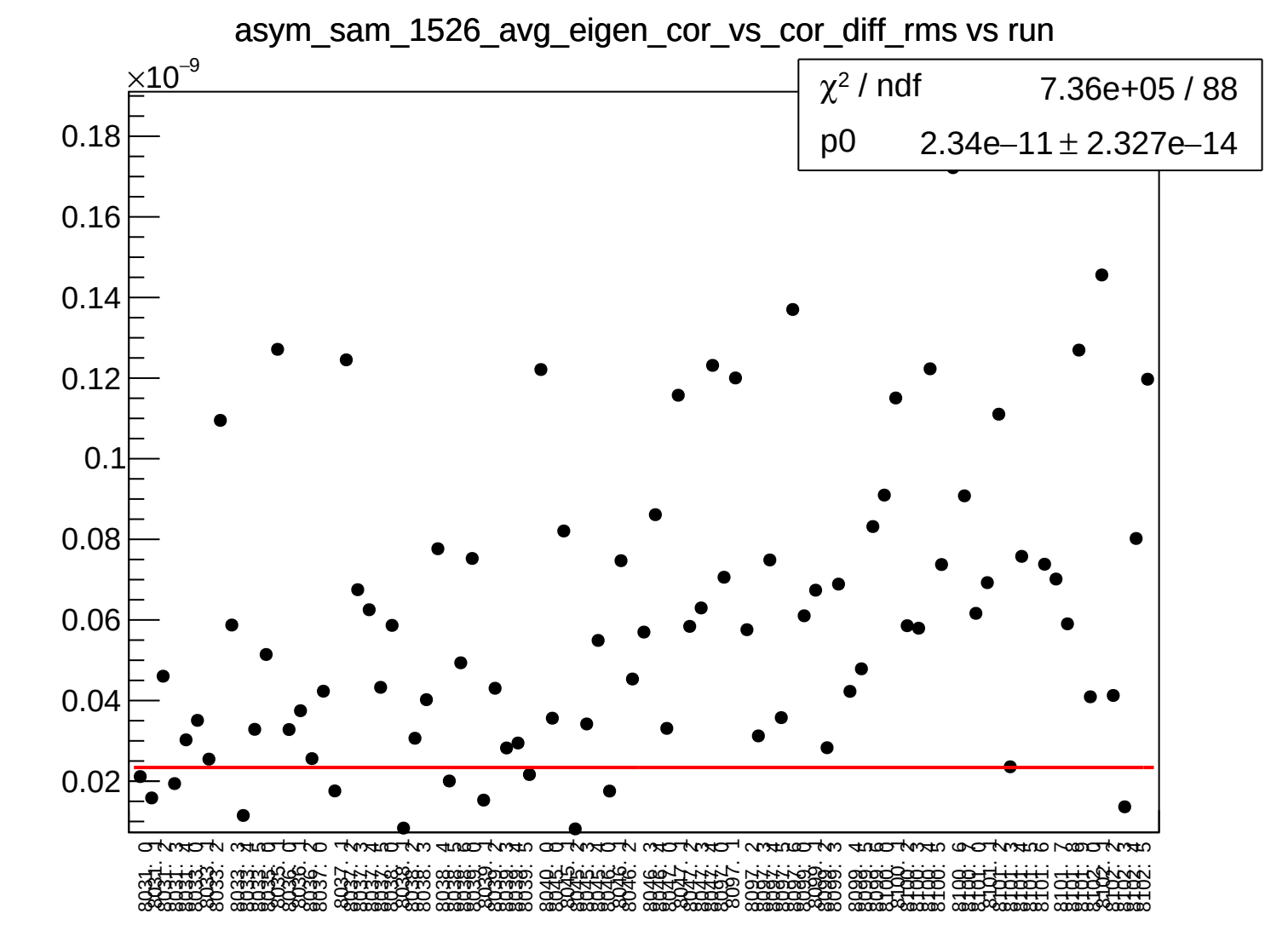

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.39 / 88
p0 0.01292 ± 0.02683
pull
Entries 89
Mean −181.4
Std Dev 0

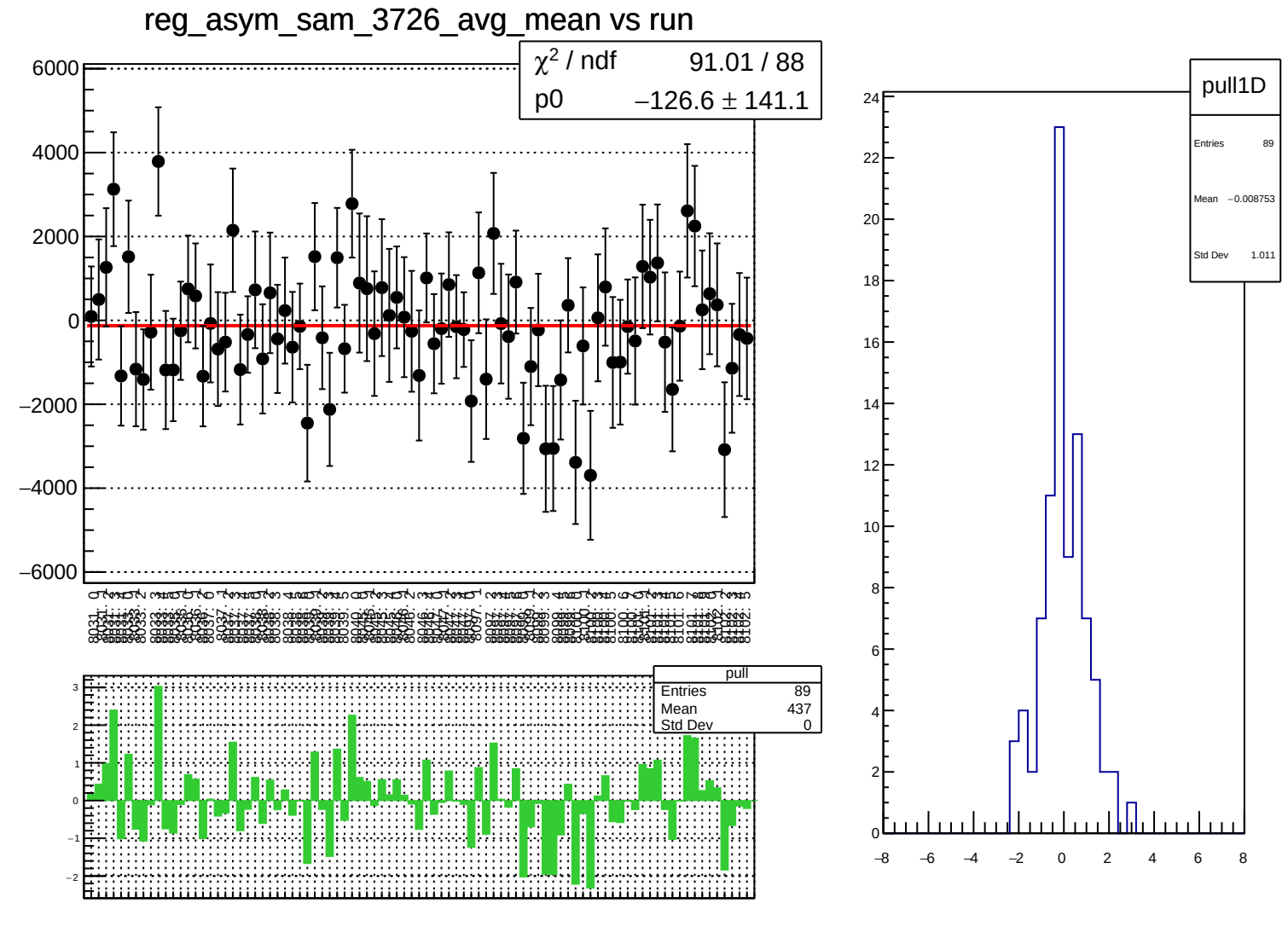

pull1D
Entries 89
Mean −0.01248
Std Dev 0.9679

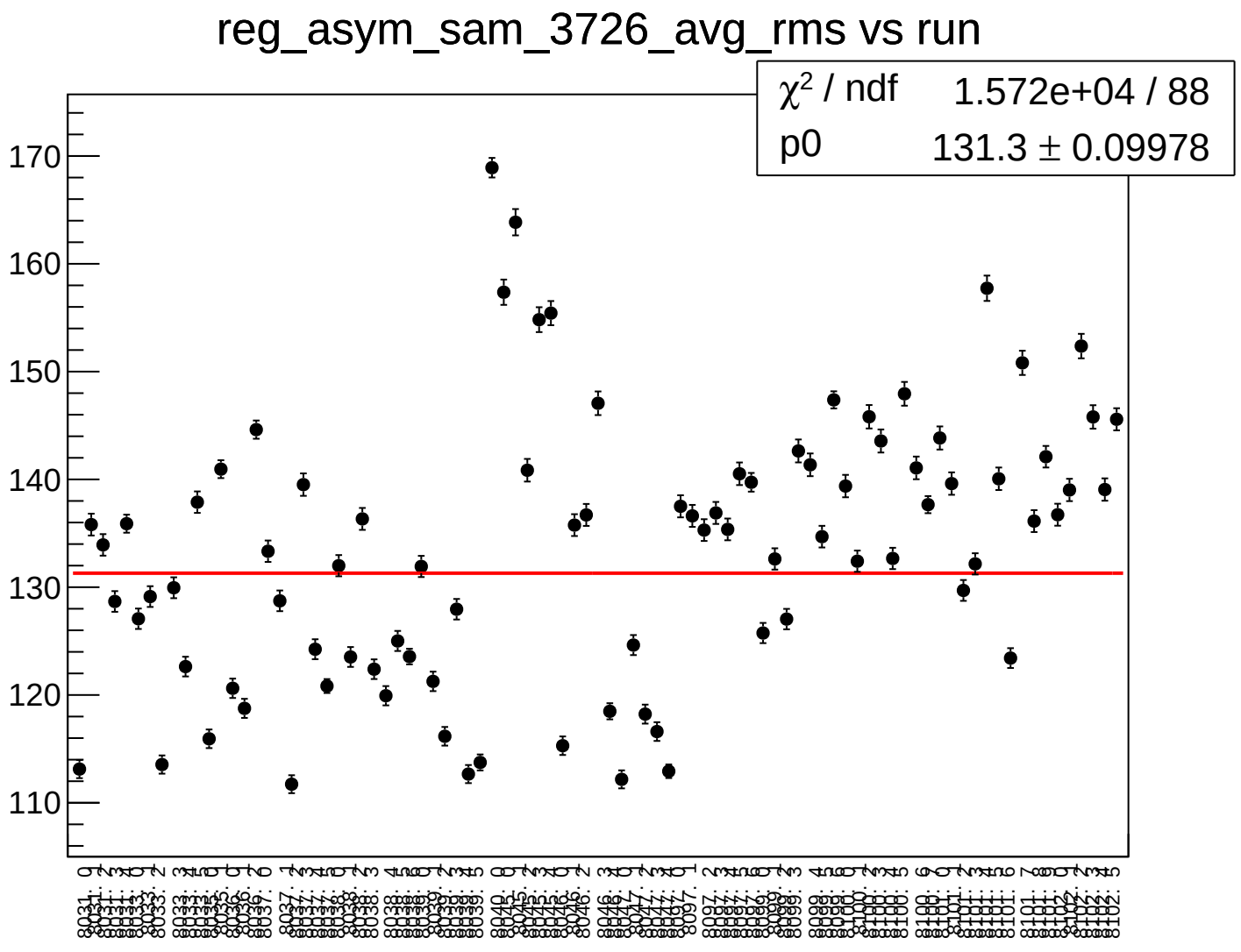

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.983e+04 / 88
p0 24.36 ± 0.01897
60
50
40
30
20
10

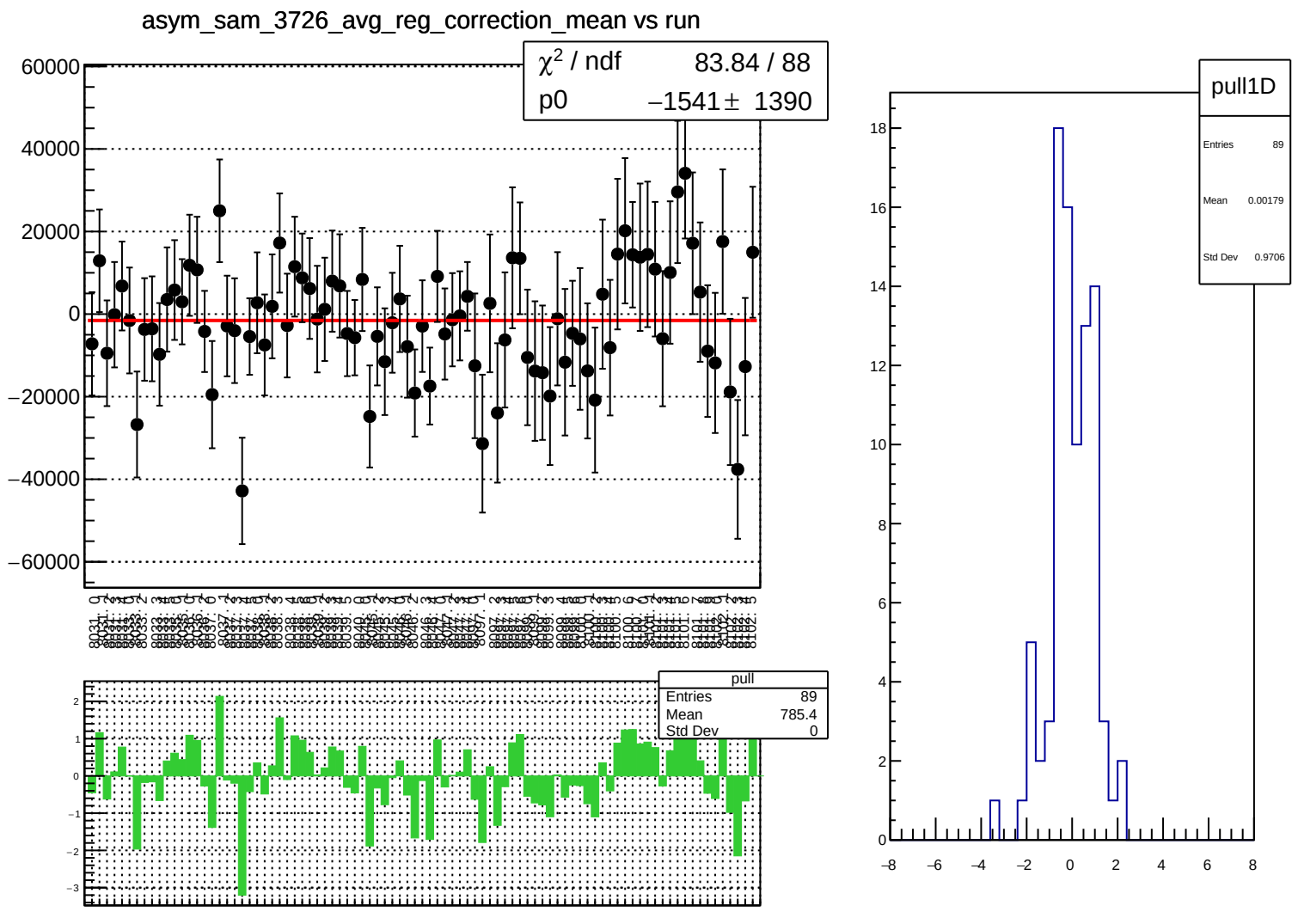

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 102.7 / 88
p0 −4.147e−15 ± 3.29e−14
pull
Entries 89
Mean 147.4
Std Dev 0

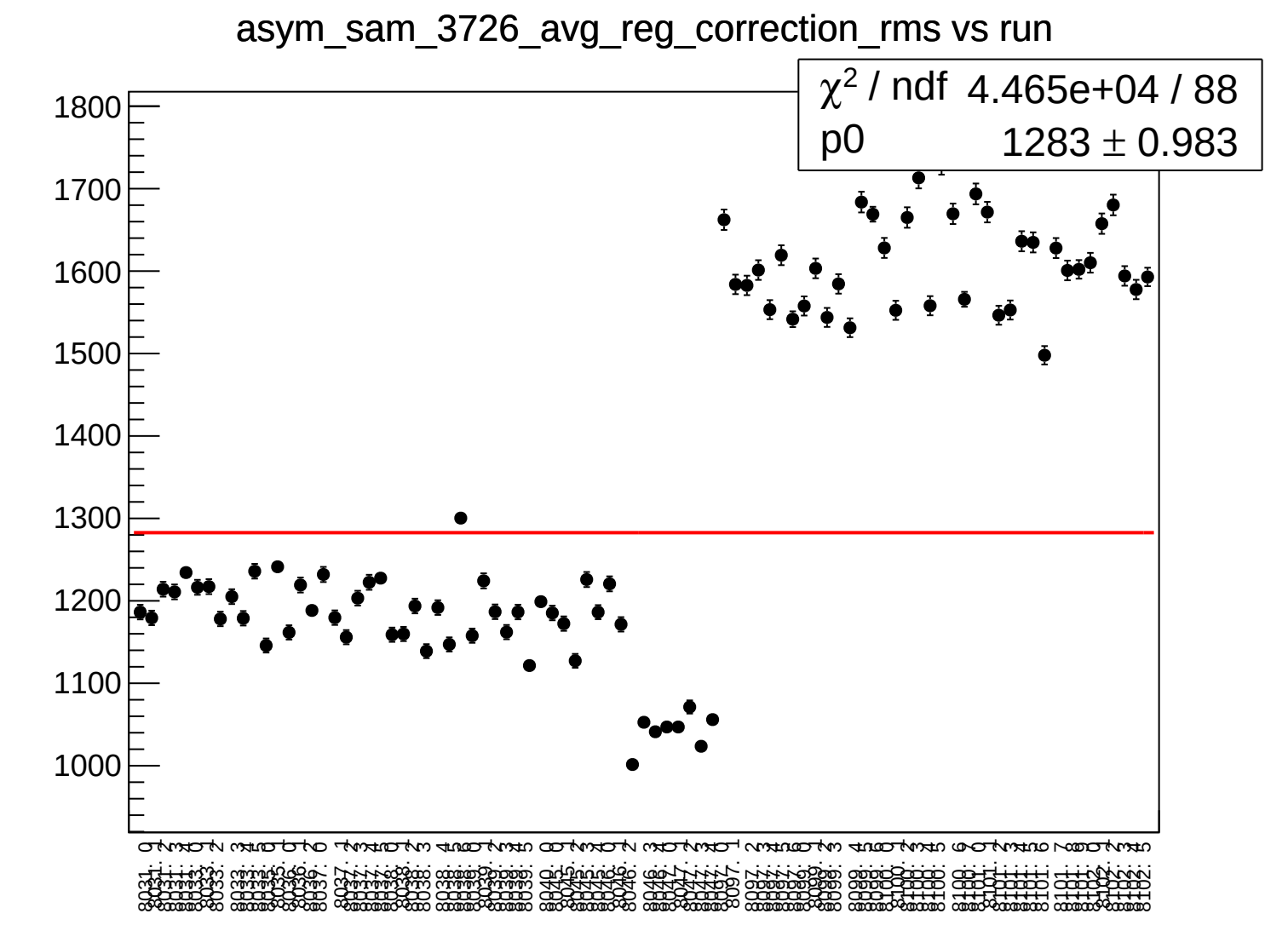

pull1D
Entries 89
Mean −0.04675
Std Dev 1.073

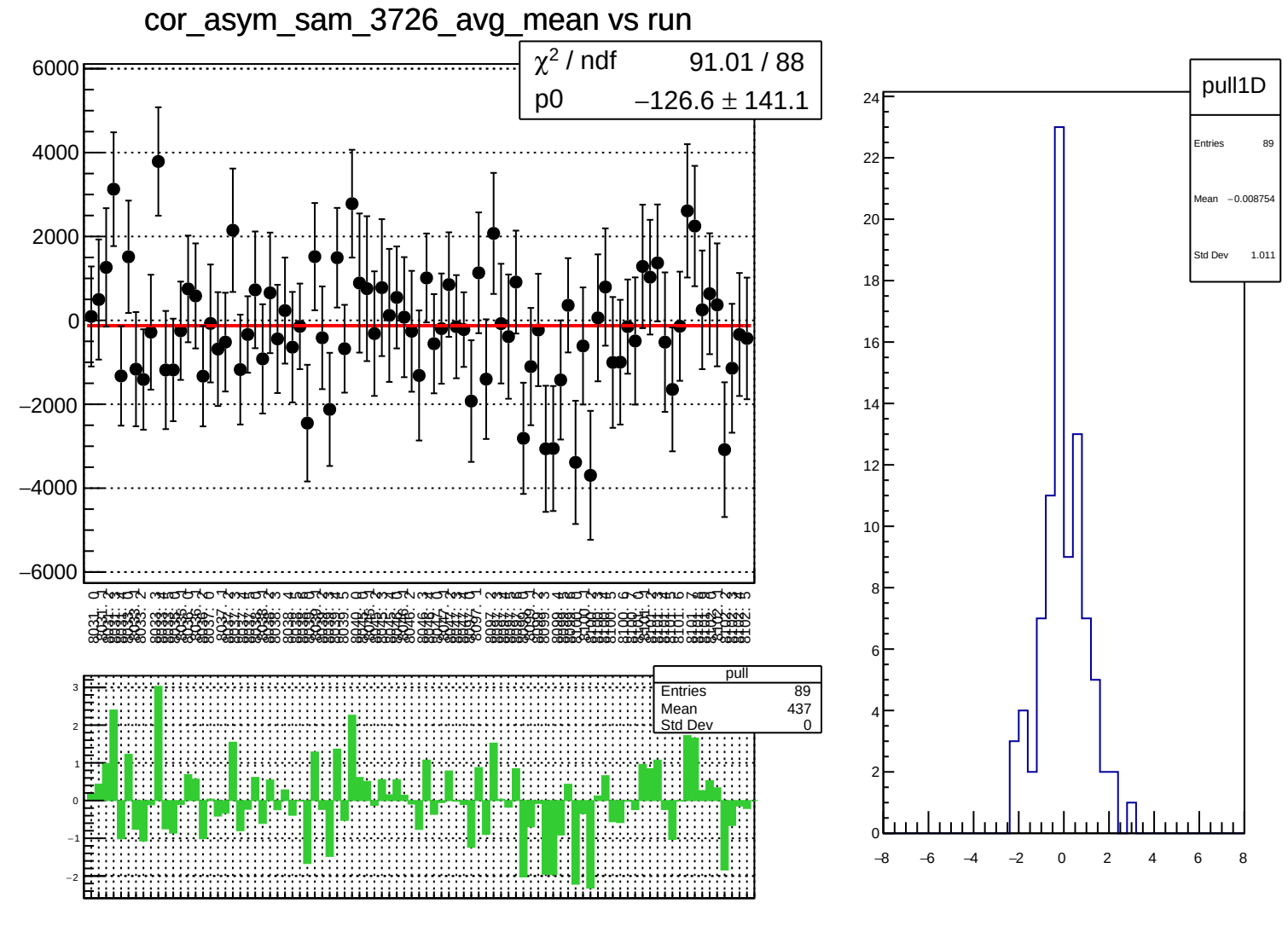

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.36e+05 / 88
p0 2.34e−11 ± 2.327e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

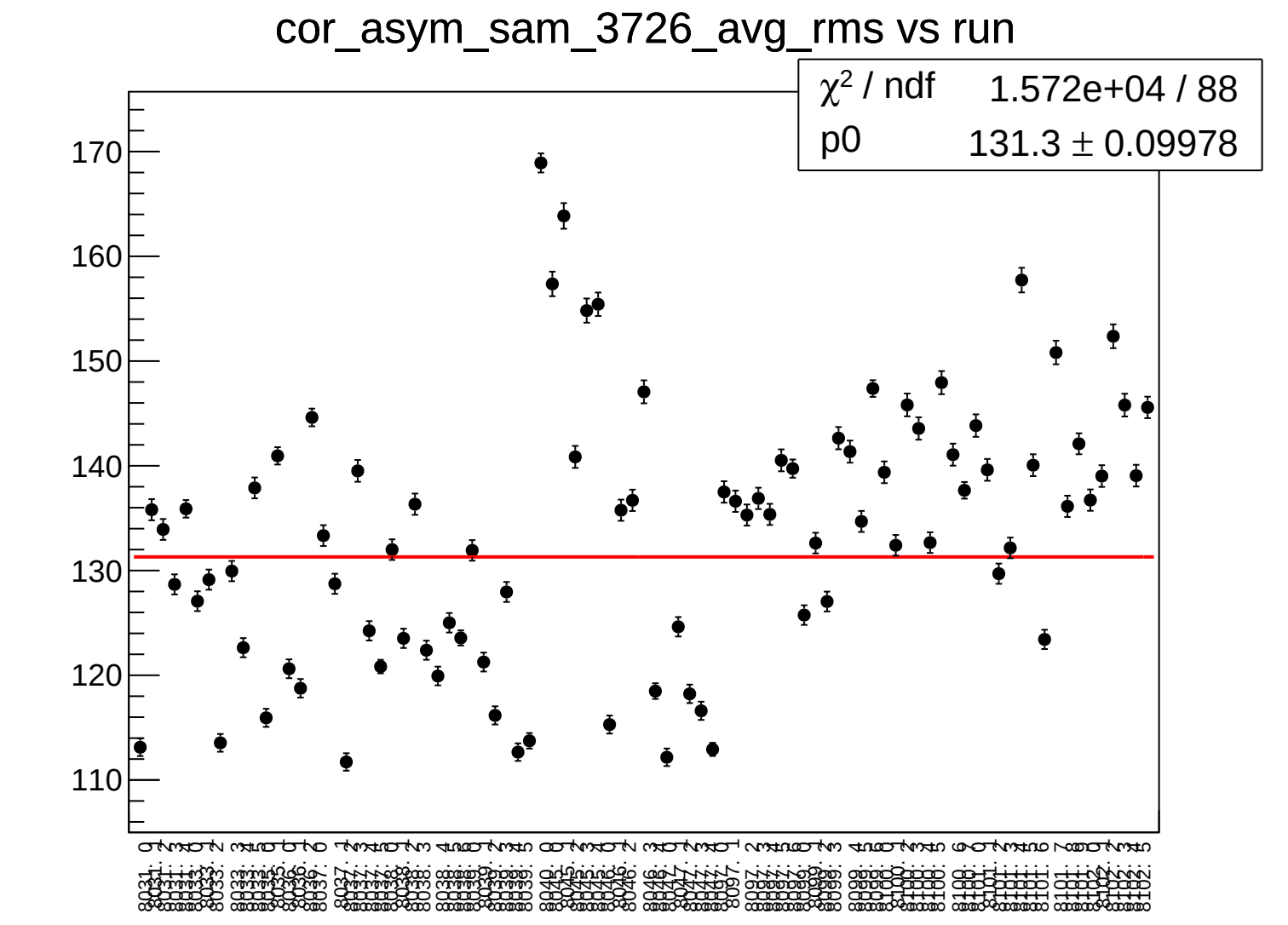

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 91.01 / 88
p0 −126.6 ± 141.1
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 437
Std Dev 0
pull1D
Entries 89
Mean −0.008753
Std Dev 1.011
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

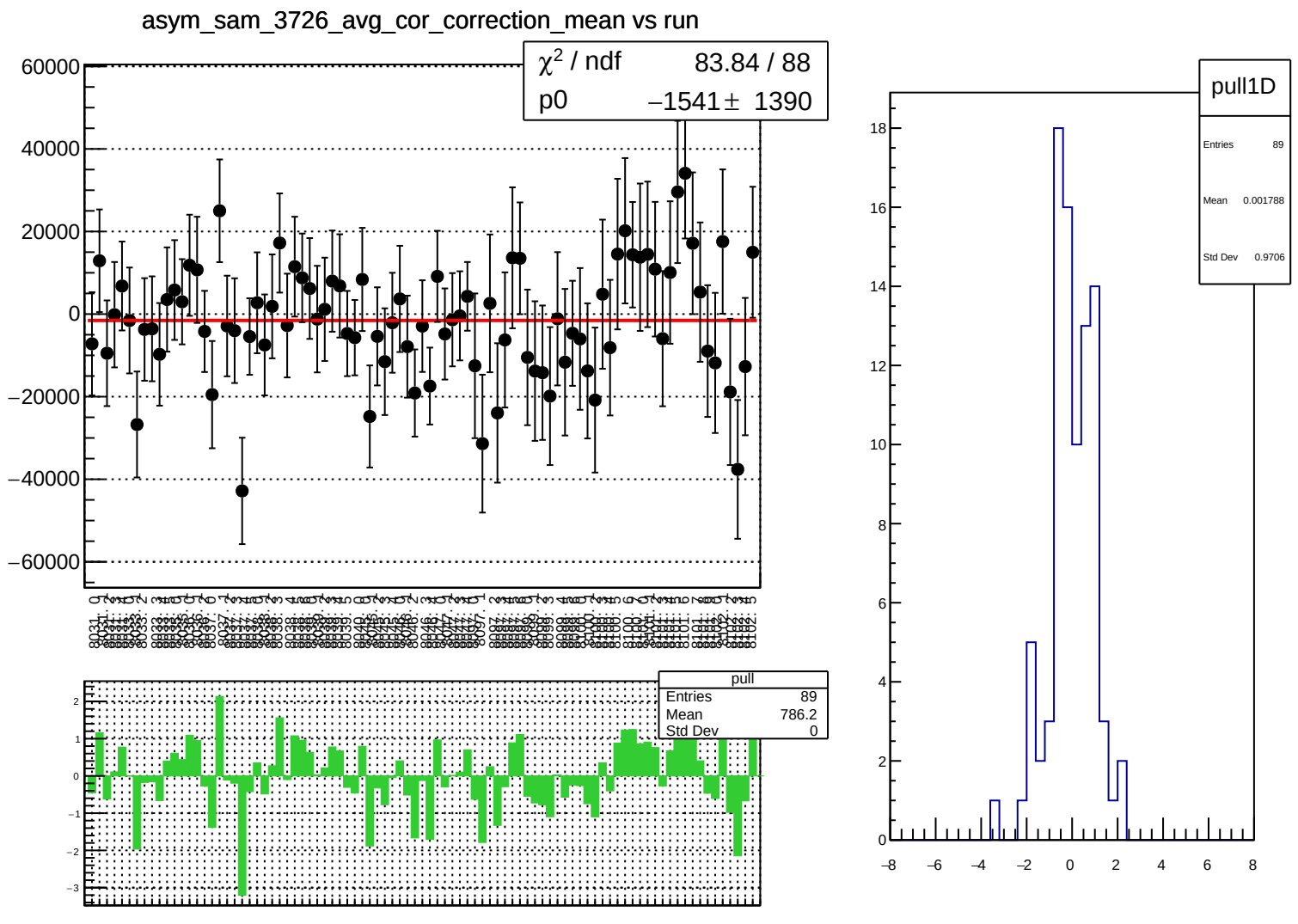

reg_asym_sam_3726_avg_rms vs run
χ² / ndf 1.572e+04 / 88
p0 131.3 ± 0.09978
170
160
150
140
130
120
110

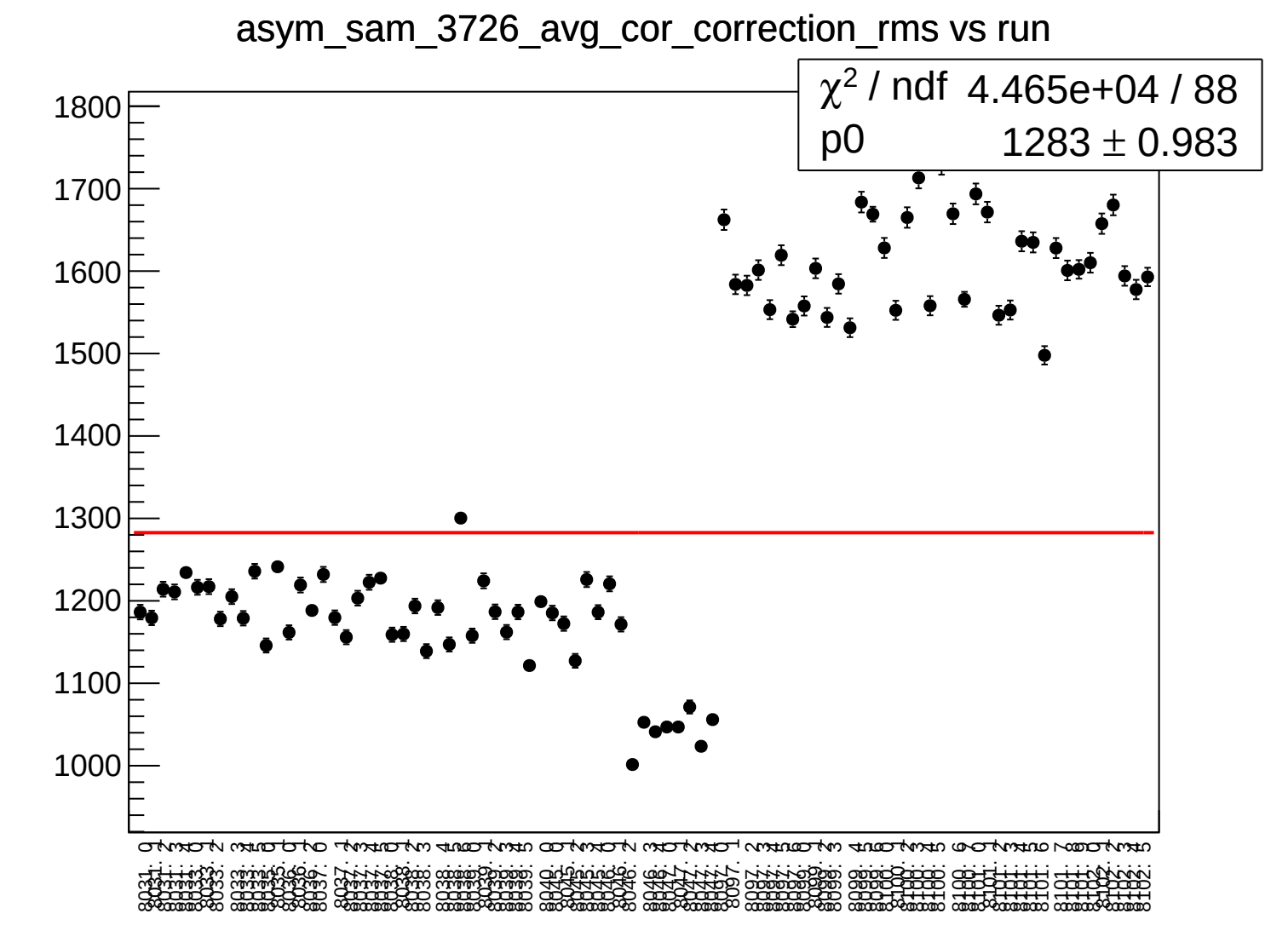

asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 83.84 / 88
p0 −1541 ± 1390
pull
Entries 89
Mean 785.4
Std Dev 0
pull1D
Entries 89
Mean 0.00179
Std Dev 0.9706

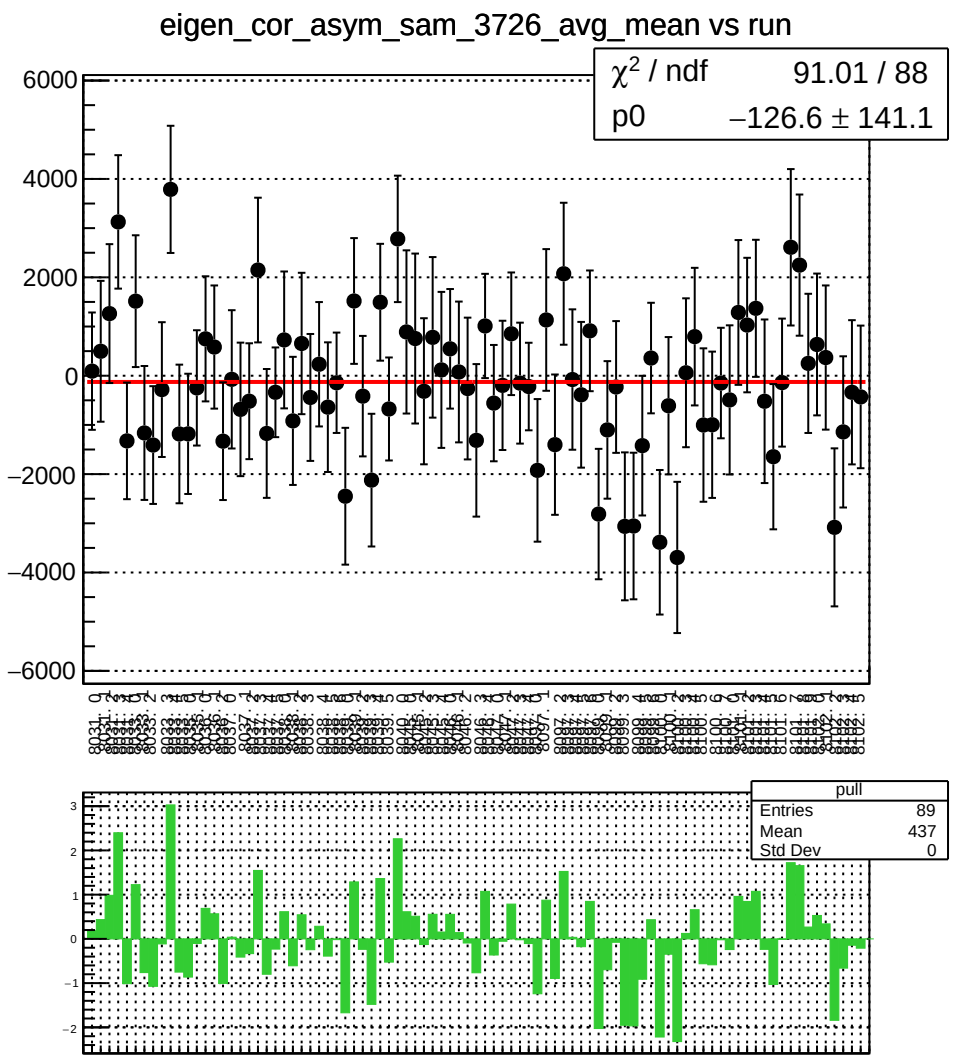

asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 4.465e+04 / 88
p0 1283 ± 0.983
1800
1700
1600
1500
1400
1300
1200
1100
1000

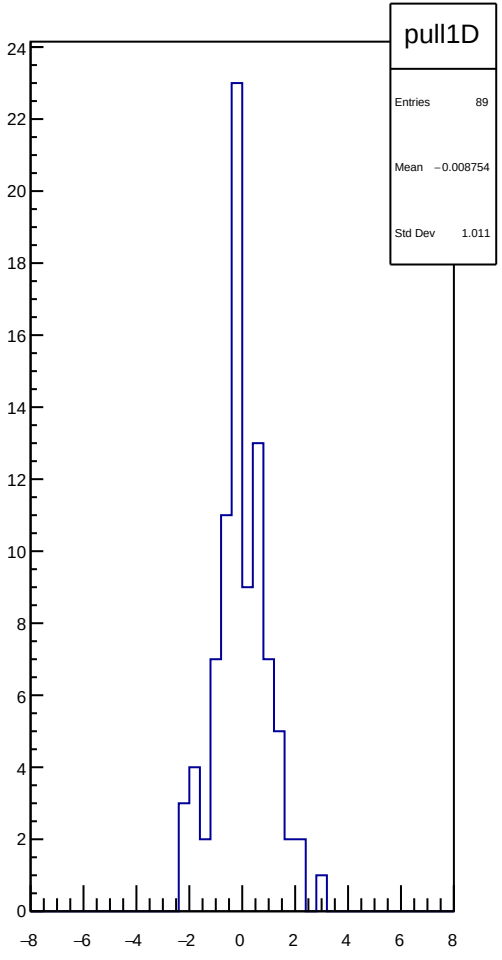

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 91.01 / 88
p0 −126.6 ± 141.1
pull
Entries 89
Mean 437
Std Dev 0
pull1D
Entries 89
Mean −0.008754
Std Dev 1.011

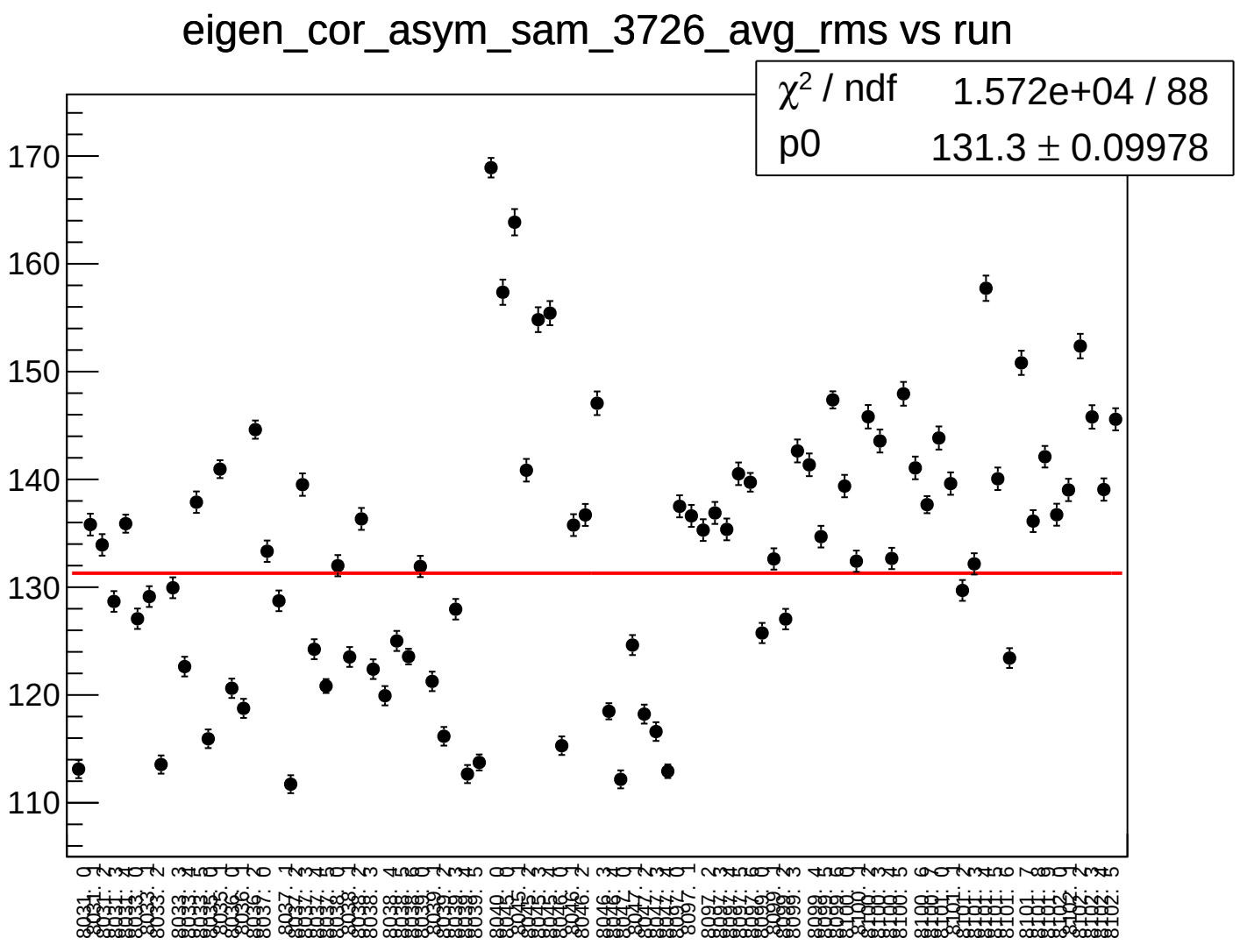

cor_asym_sam_3726_avg_rms vs run
χ² / ndf 1.572e+04 / 88
p0 131.3 ± 0.09978
170
160
150
140
130
120
110

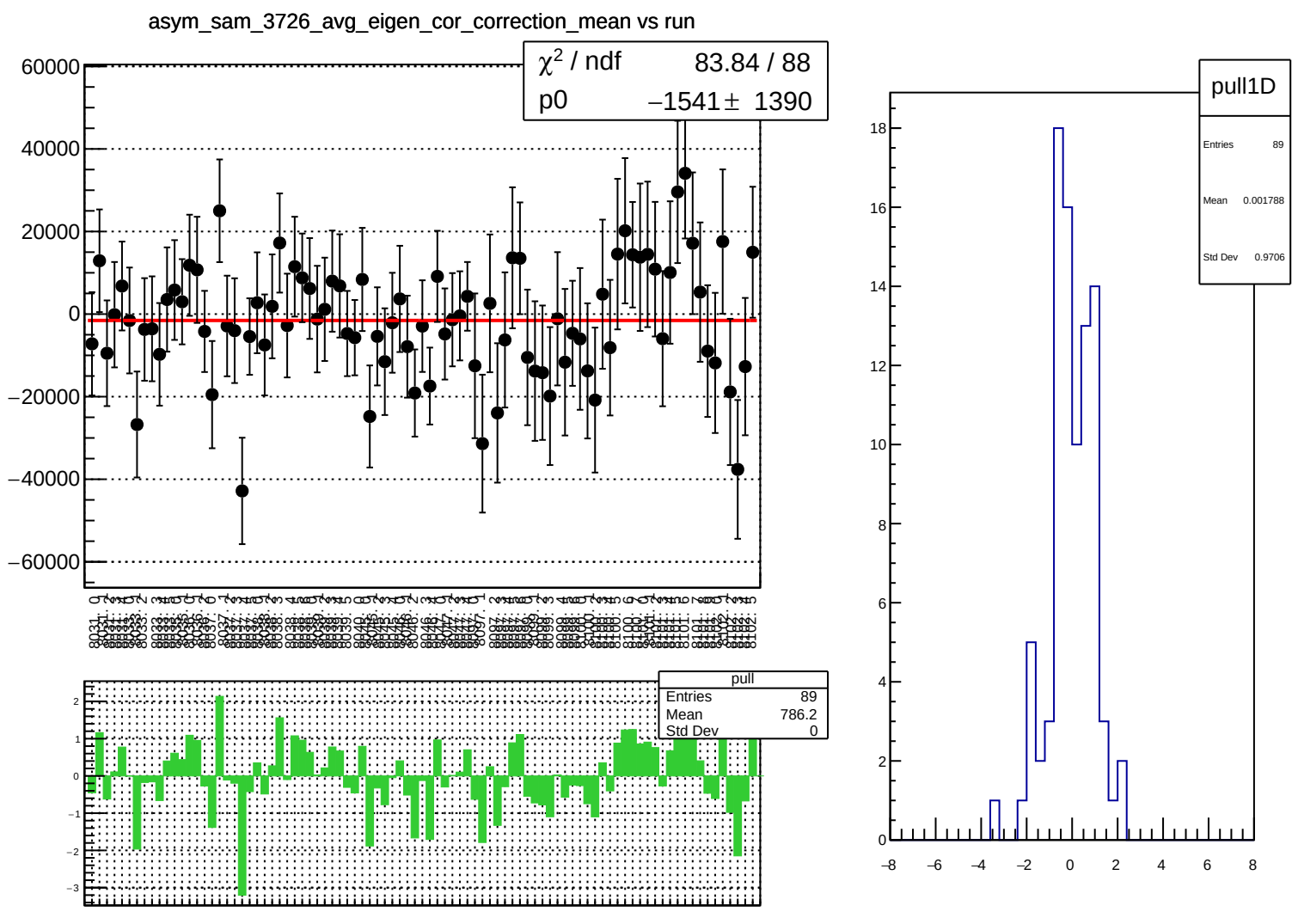

asym_sam_3726_avg_cor_correction_mean vs run
χ² / ndf 83.84 / 88
p0 −1541 ± 1390
pull
Entries 89
Mean 786.2
Std Dev 0
pull1D
Entries 89
Mean 0.001788
Std Dev 0.9706

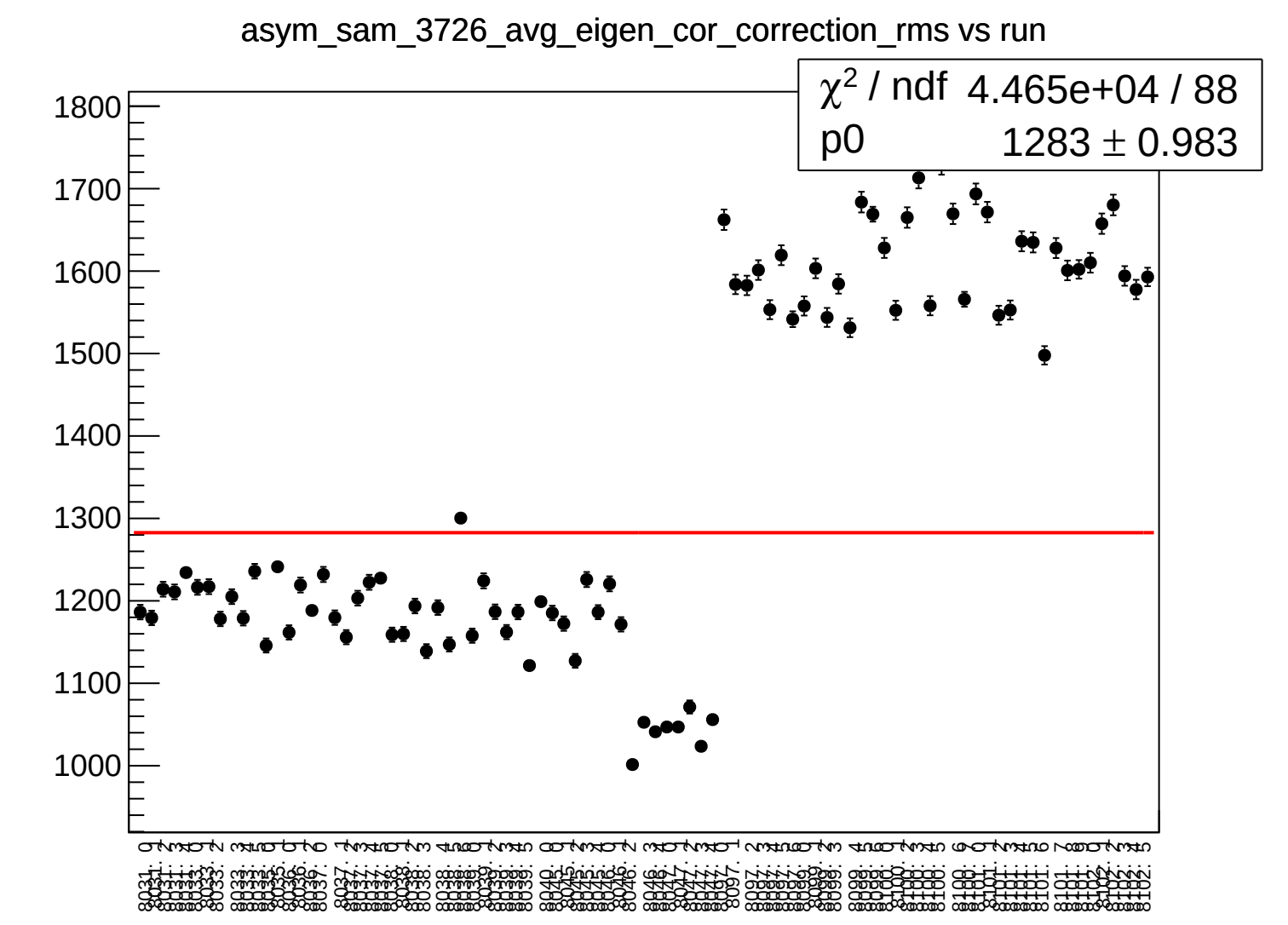

asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 4.465e+04 / 88
p0 1283 ± 0.983
1800
1700
1600
1500
1400
1300
1200
1100
1000

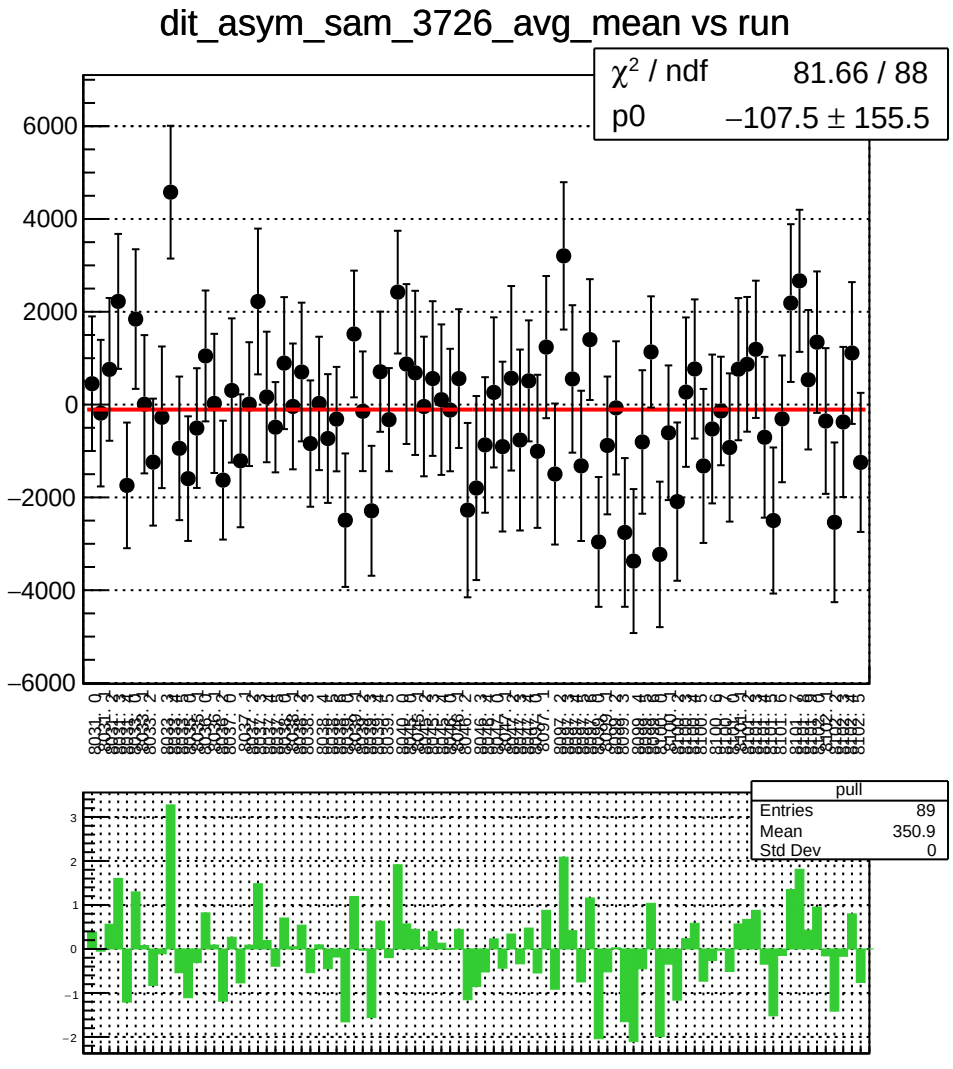

eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 91.01 / 88
p0 −126.6 ± 141.1
pull
Entries 89
Mean 437
Std Dev 0

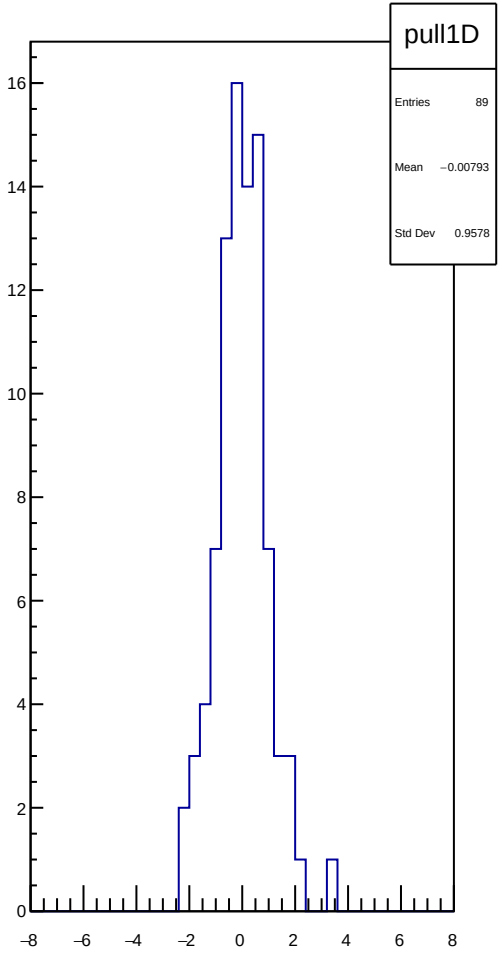

pull1D
Entries 89
Mean −0.008754
Std Dev 1.011

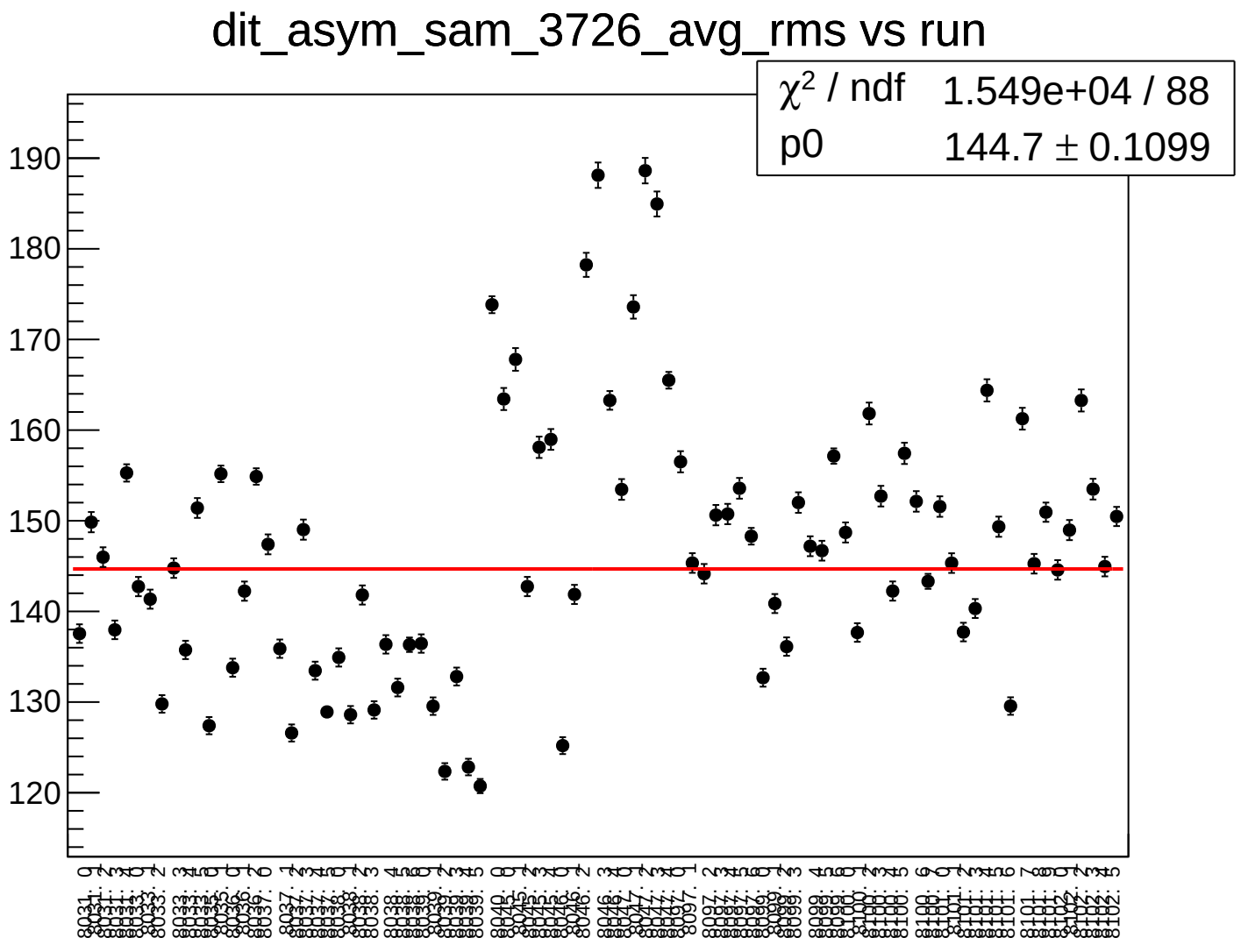

eigen_cor_asym_sam_3726_avg_rms vs run
χ² / ndf 1.572e+04 / 88
p0 131.3 ± 0.09978
170
160
150
140
130
120
110

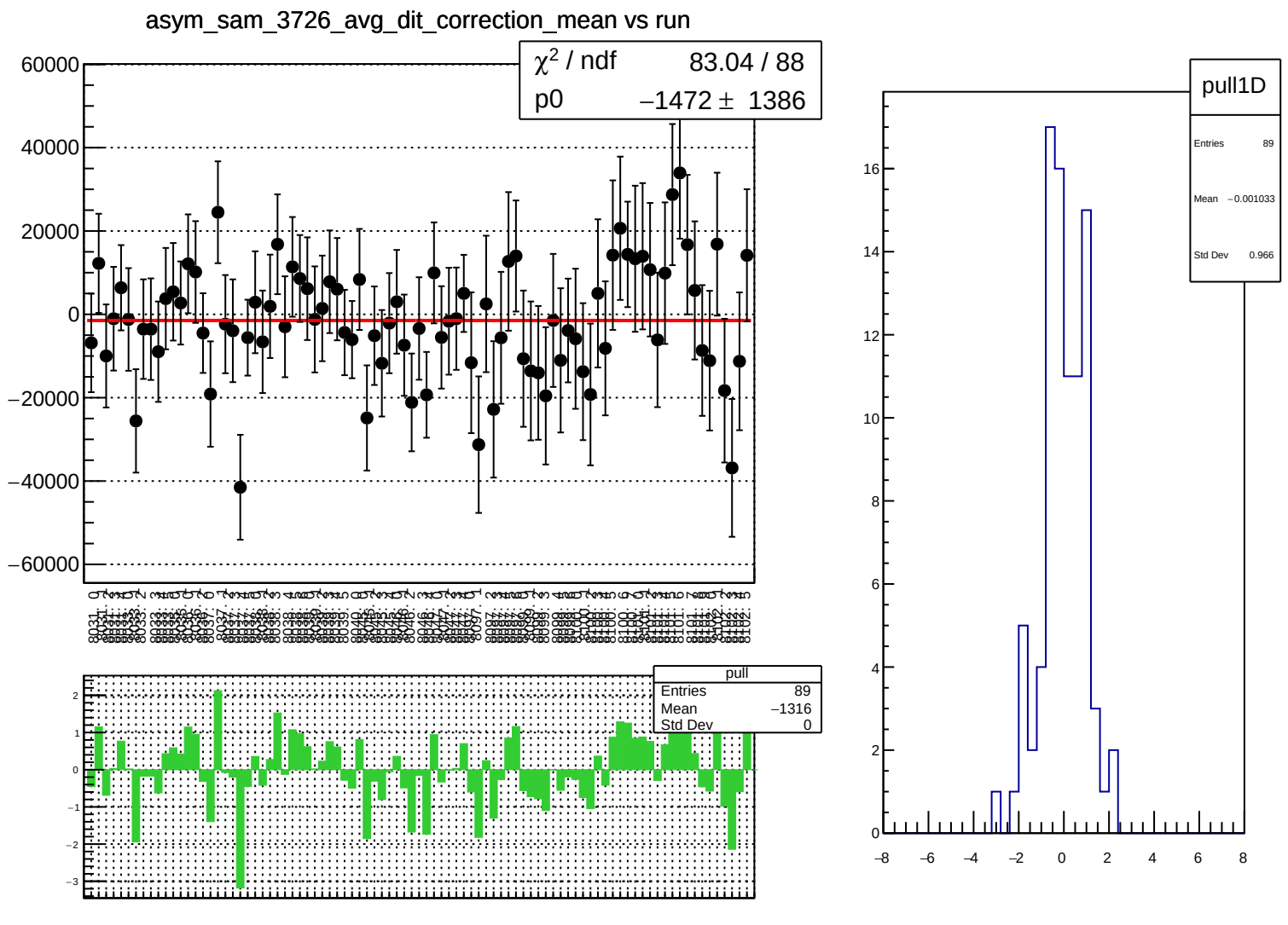

asym_sam_3726_avg_eigen_cor_correction_mean vs run
χ² / ndf 83.84 / 88
p0 −1541 ± 1390
pull
Entries 89
Mean 786.2
Std Dev 0
pull1D
Entries 89
Mean 0.001788
Std Dev 0.9706

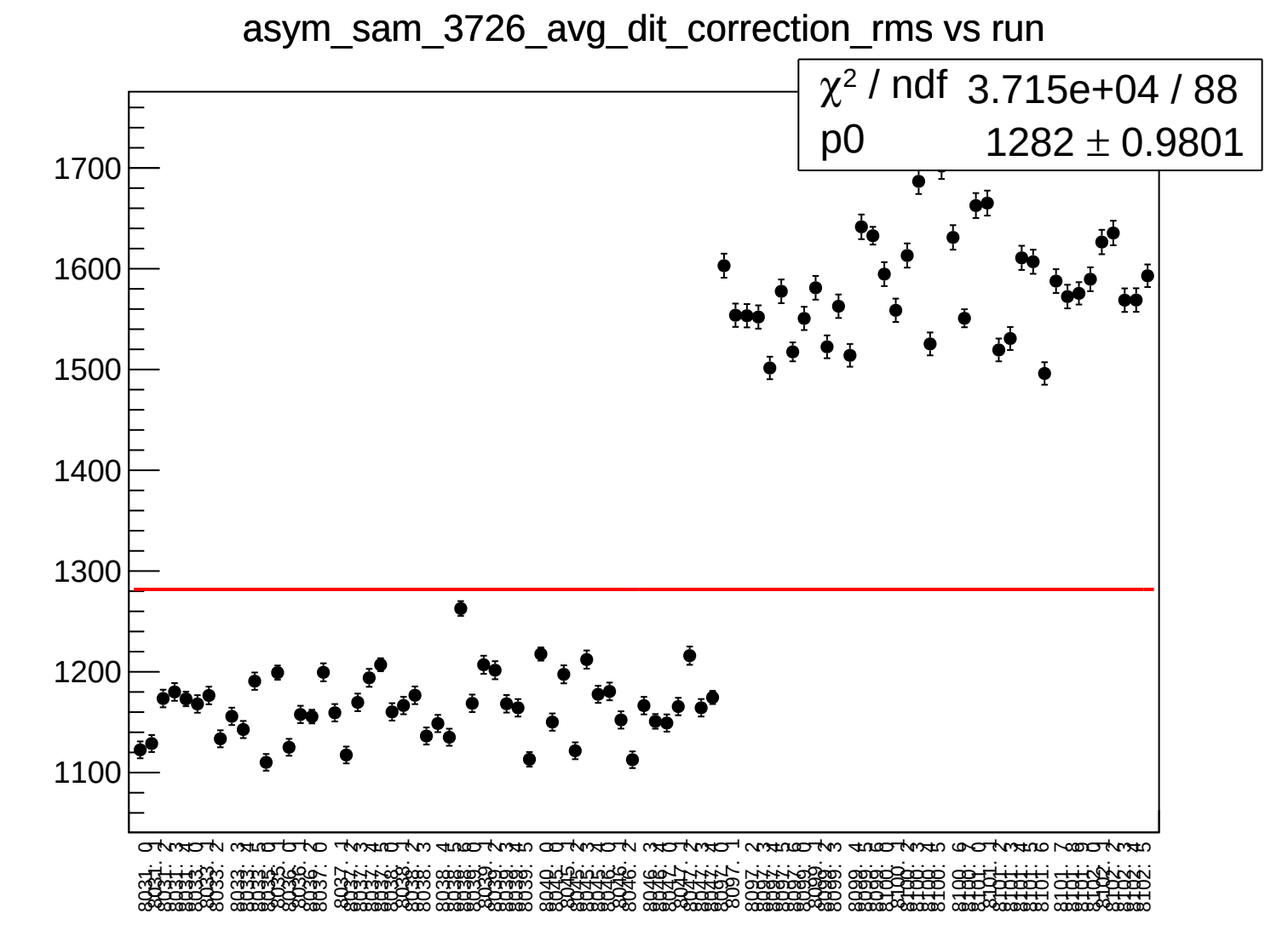

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 4.465e+04 / 88
p0 1283 ± 0.983
1800
1700
1600
1500
1400
1300
1200
1100
1000

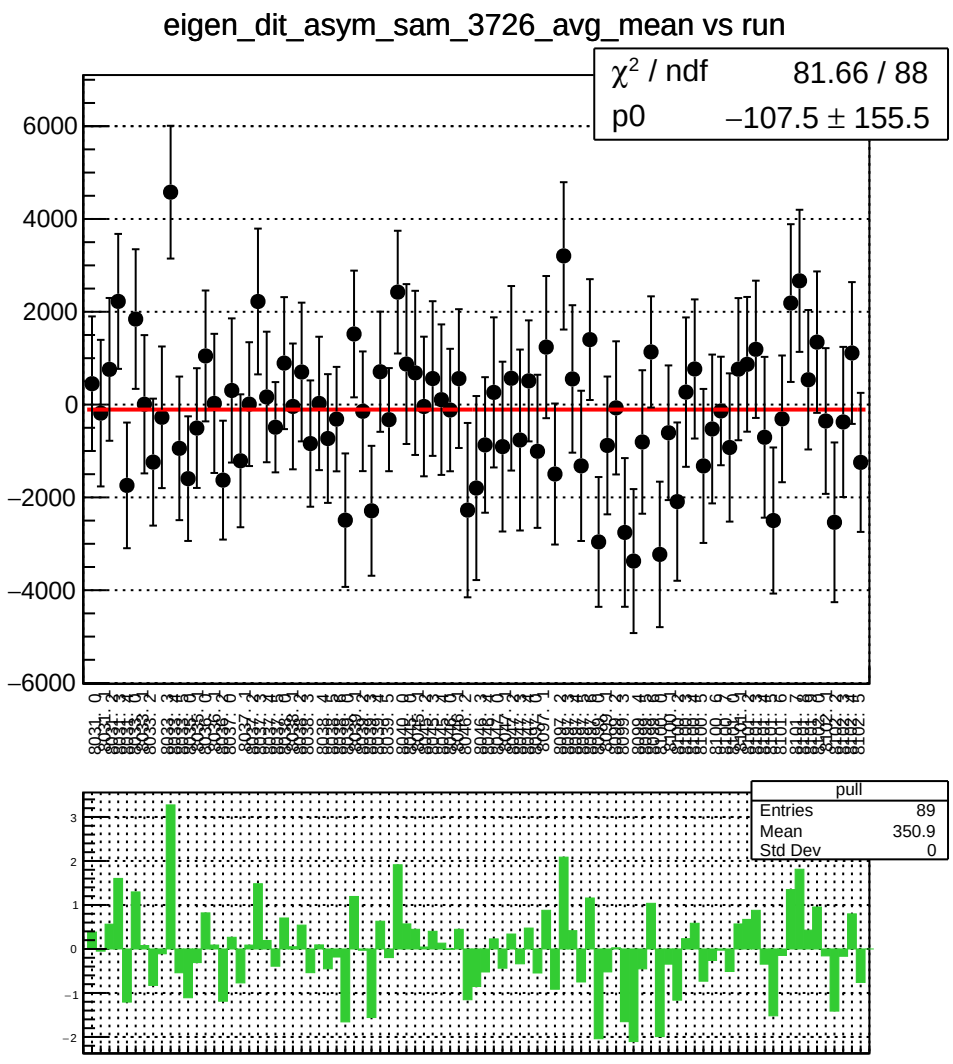

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 81.66 / 88
p0 −107.5 ± 155.5
pull
Entries 89
Mean 350.9
Std Dev 0

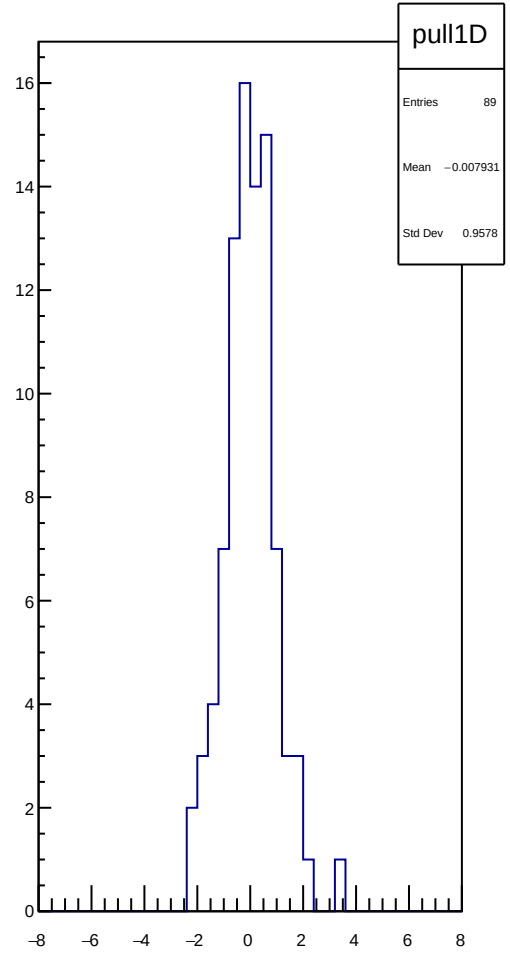

pull1D
Entries 89
Mean −0.00793
Std Dev 0.9578

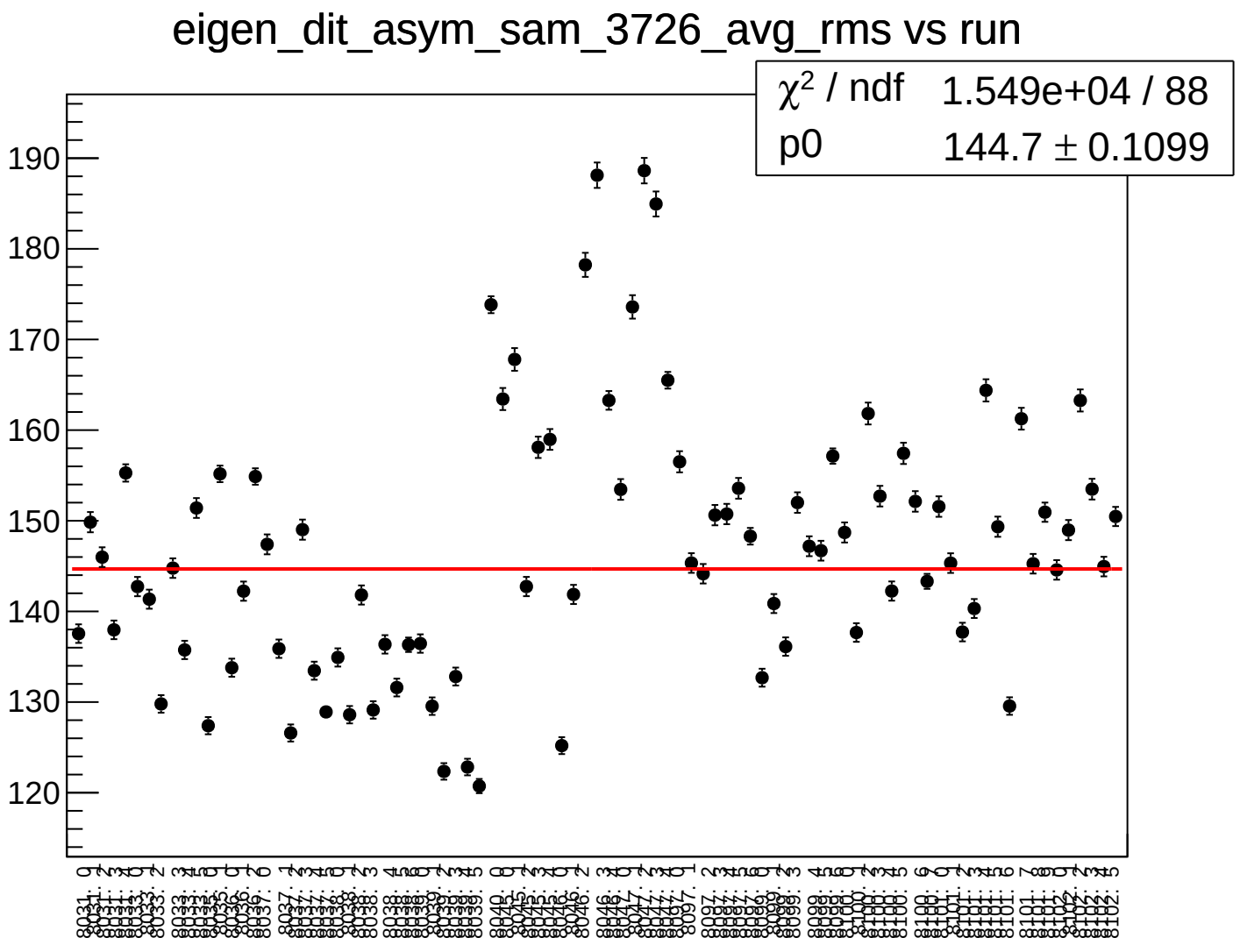

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 1.549e+04 / 88
p0 144.7 ± 0.1099
190
180
170
160
150
140
130
120

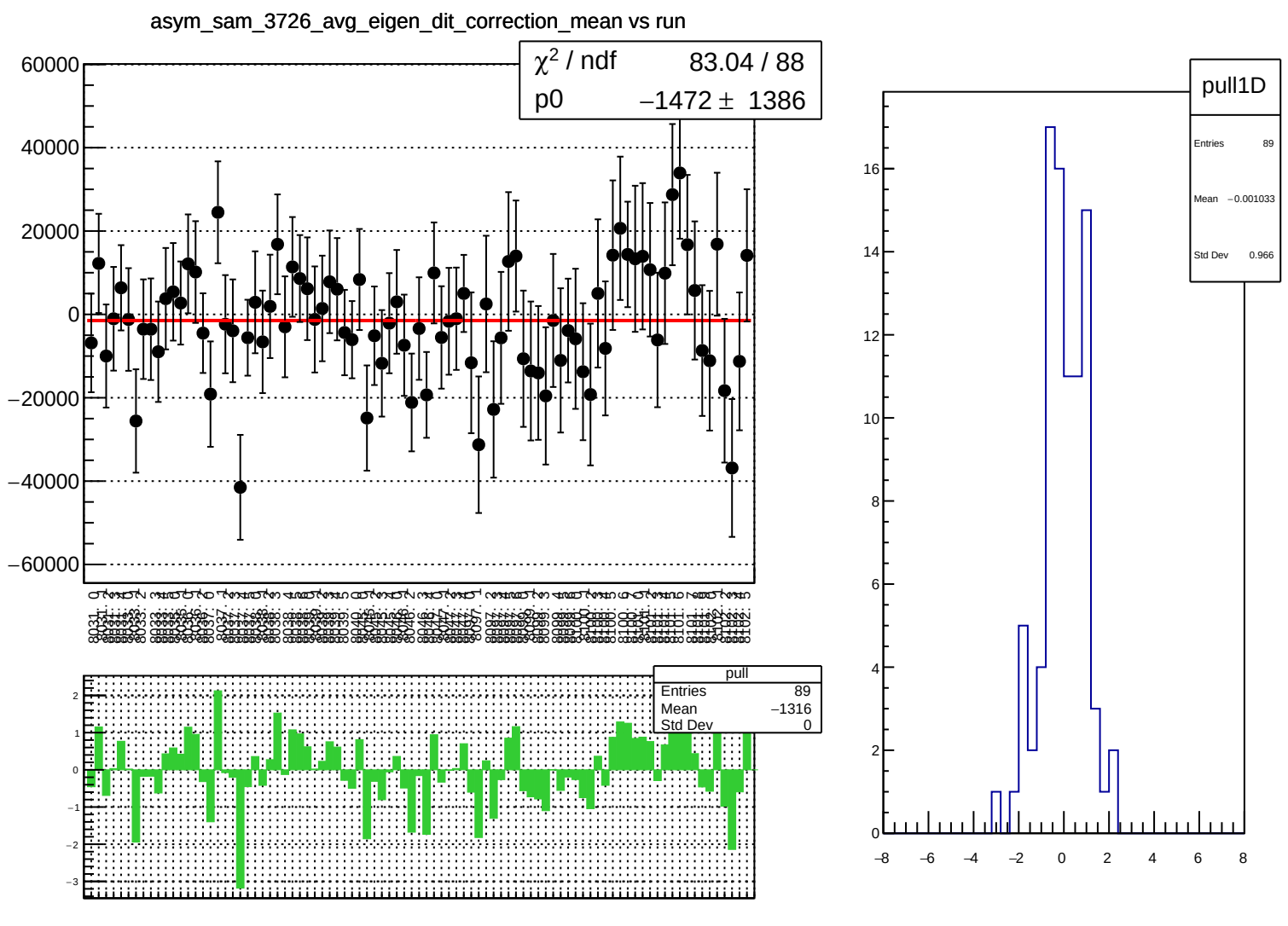

asym_sam_3726_avg_dit_correction_mean vs run
χ² / ndf 83.04 / 88
p0 −1472 ± 1386
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −1316
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.001033
Std Dev 0.966
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

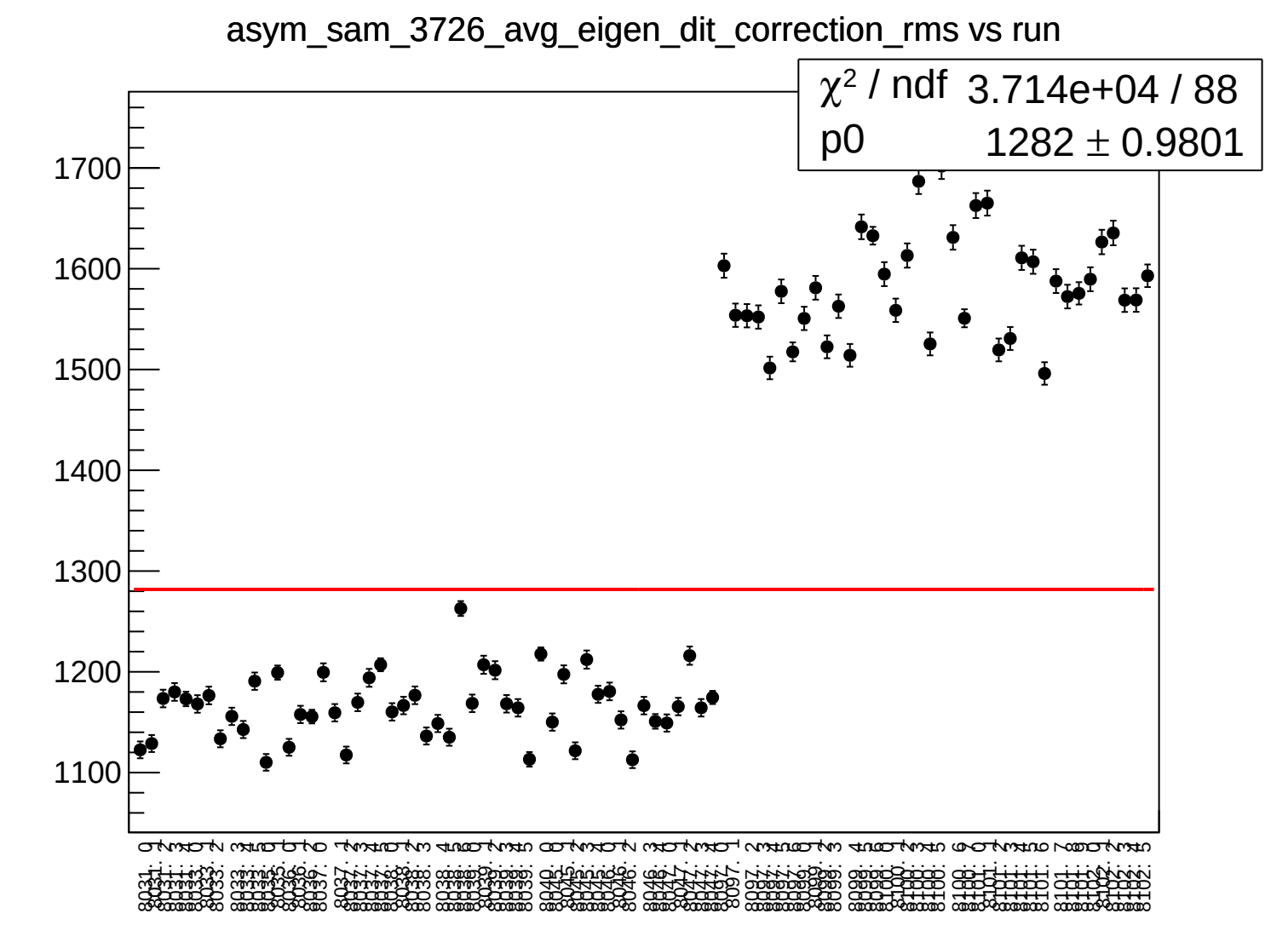

asym_sam_3726_avg_dit_correction_rms vs run
χ² / ndf 3.715e+04 / 88
p0 1282 ± 0.9801
1700
1600
1500
1400
1300
1200
1100

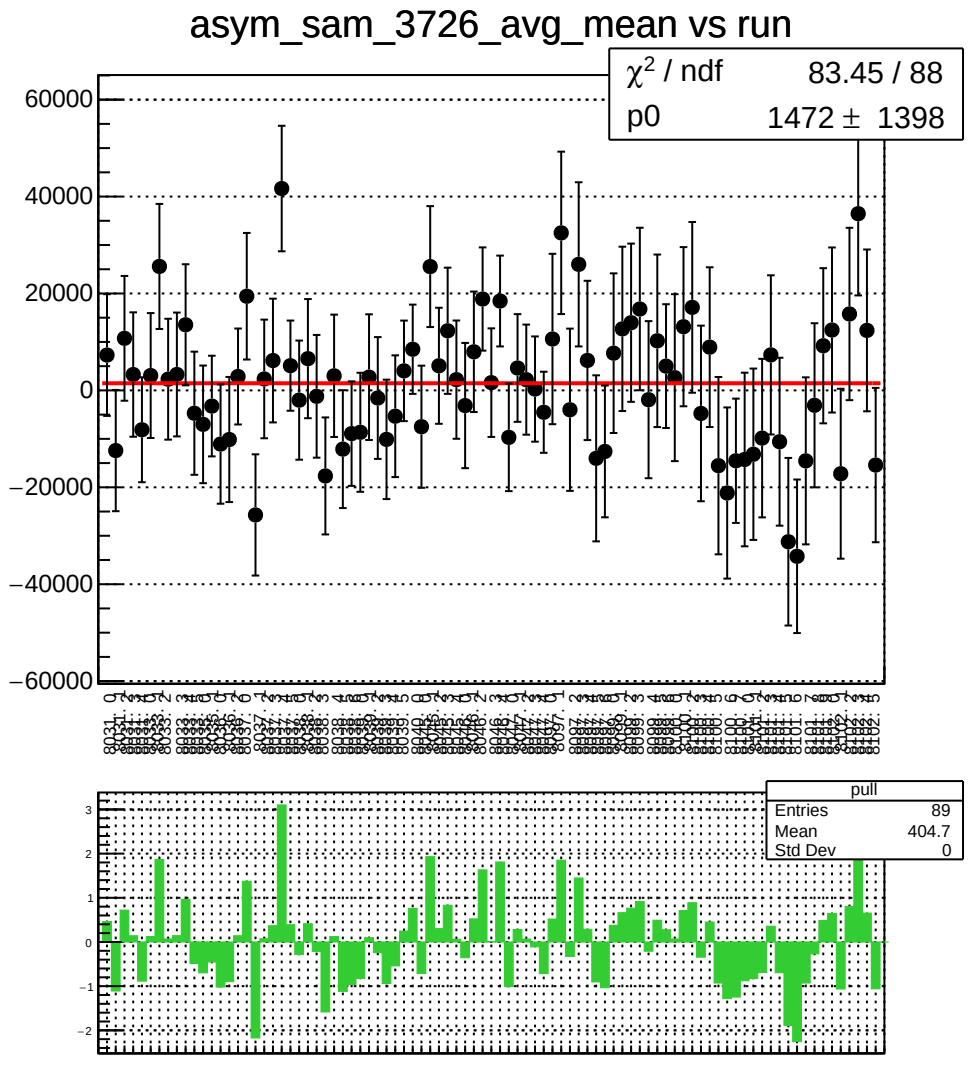

eigen_dit_asym_sam_3726_avg_mean vs run
χ² / ndf 81.66 / 88
p0 −107.5 ± 155.5
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 350.9
Std Dev 0
3
2
1
0
−1
−2

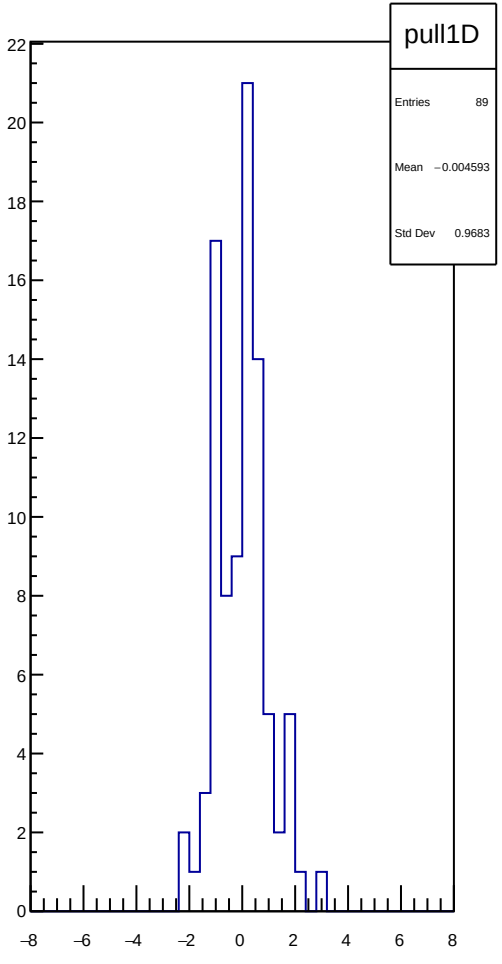

pull1D
Entries 89
Mean −0.007931
Std Dev 0.9578
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

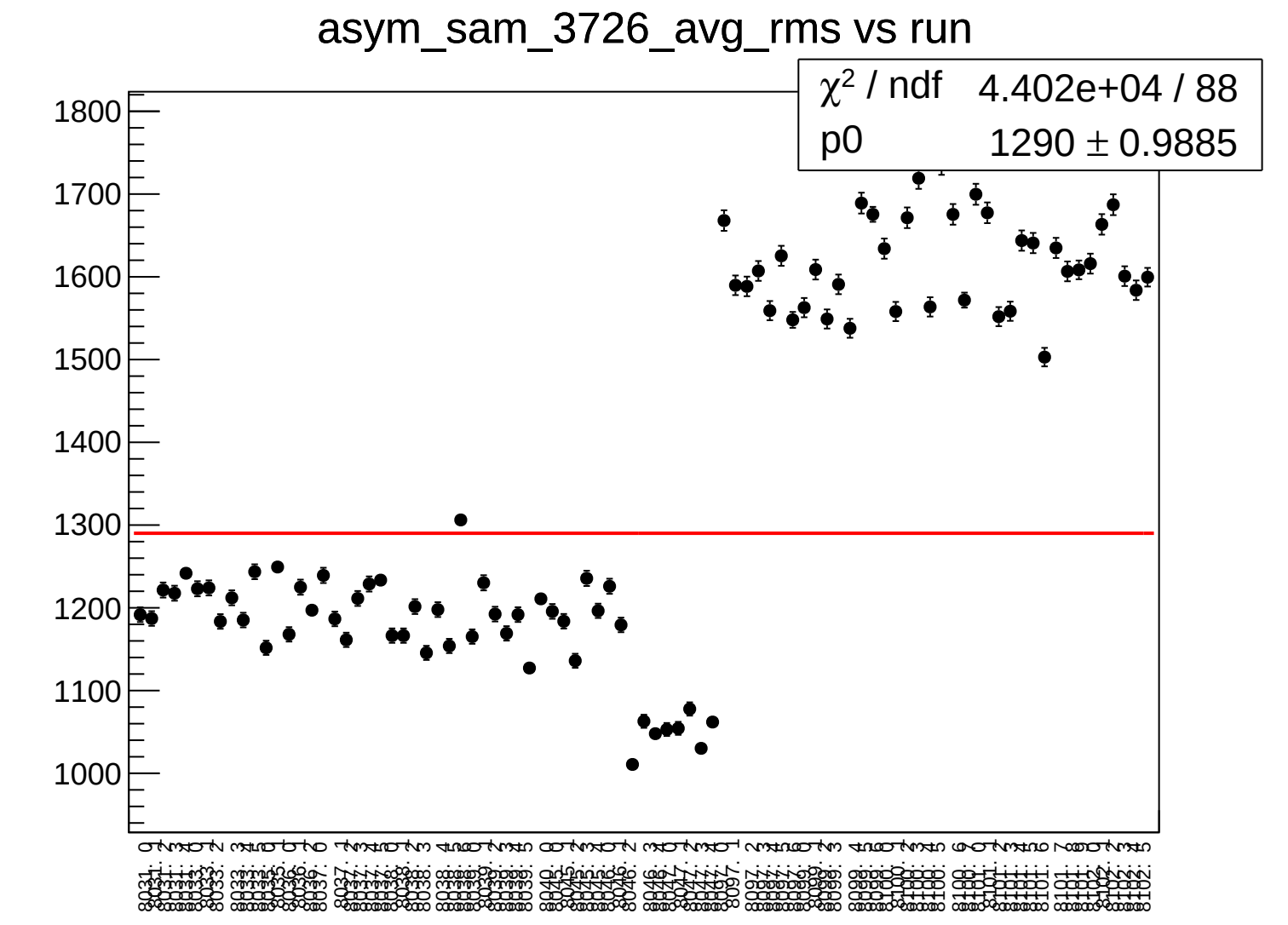

eigen_dit_asym_sam_3726_avg_rms vs run
χ² / ndf 1.549e+04 / 88
p0 144.7 ± 0.1099
190
180
170
160
150
140
130
120

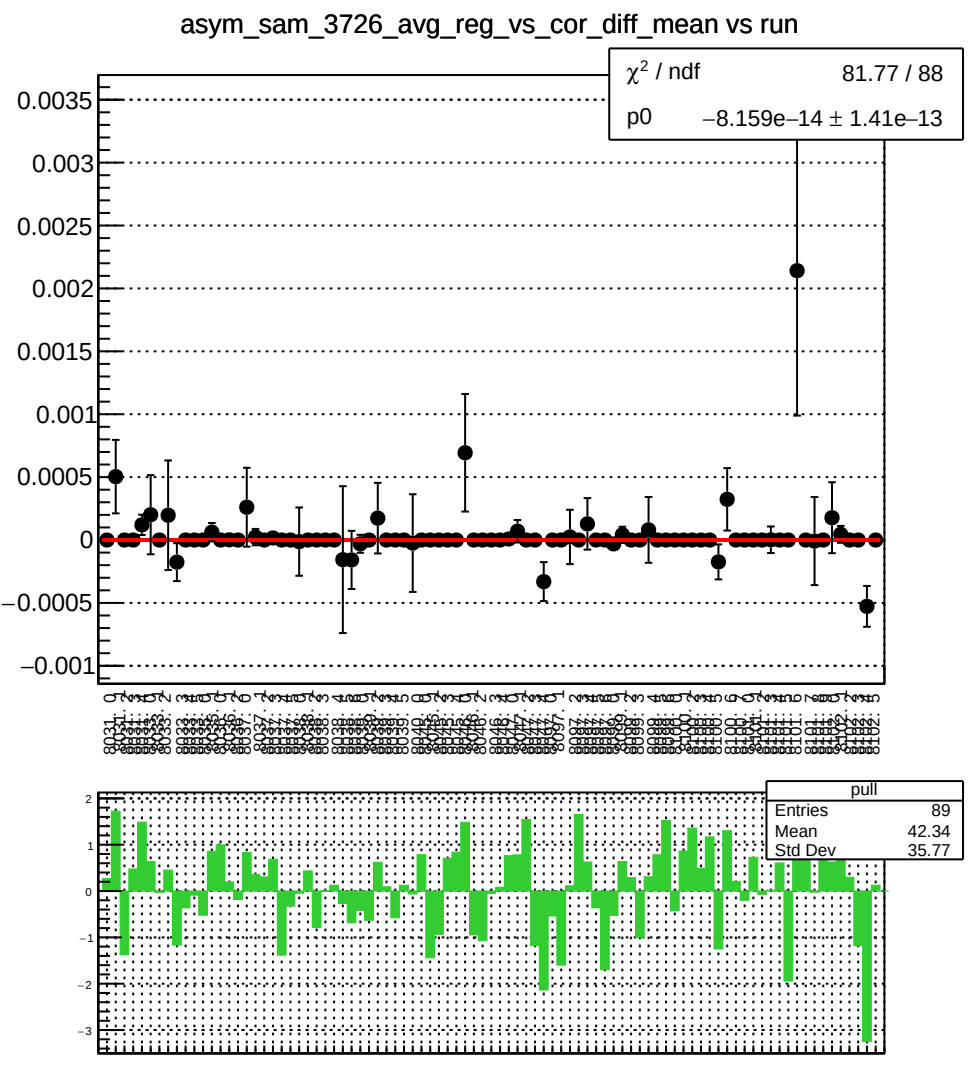

asym_sam_3726_avg_eigen_dit_correction_mean vs run
χ² / ndf 83.04 / 88
p0 −1472 ± 1386
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −1316
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.001033
Std Dev 0.966
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

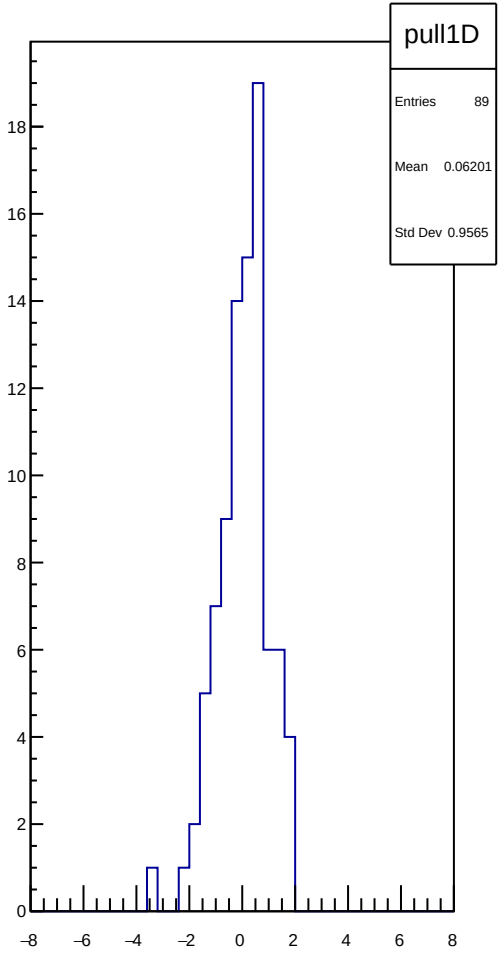

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.714e+04 / 88
p0 1282 ± 0.9801
1700
1600
1500
1400
1300
1200
1100

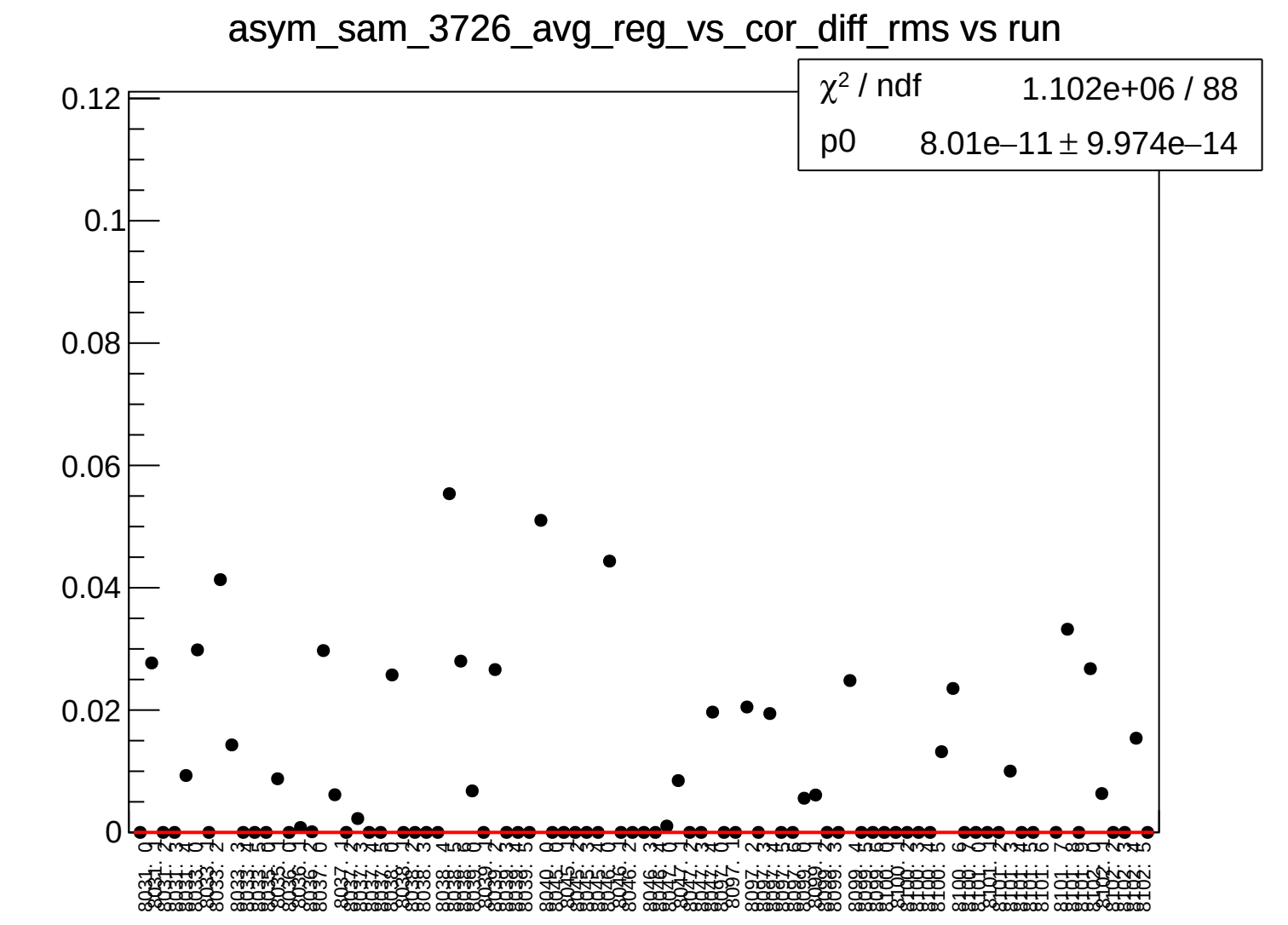

asym_sam_3726_avg_mean vs run
χ² / ndf 83.45 / 88
p0 1472 ± 1398
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 404.7
Std Dev 0
3
2
1
0
−1
−2

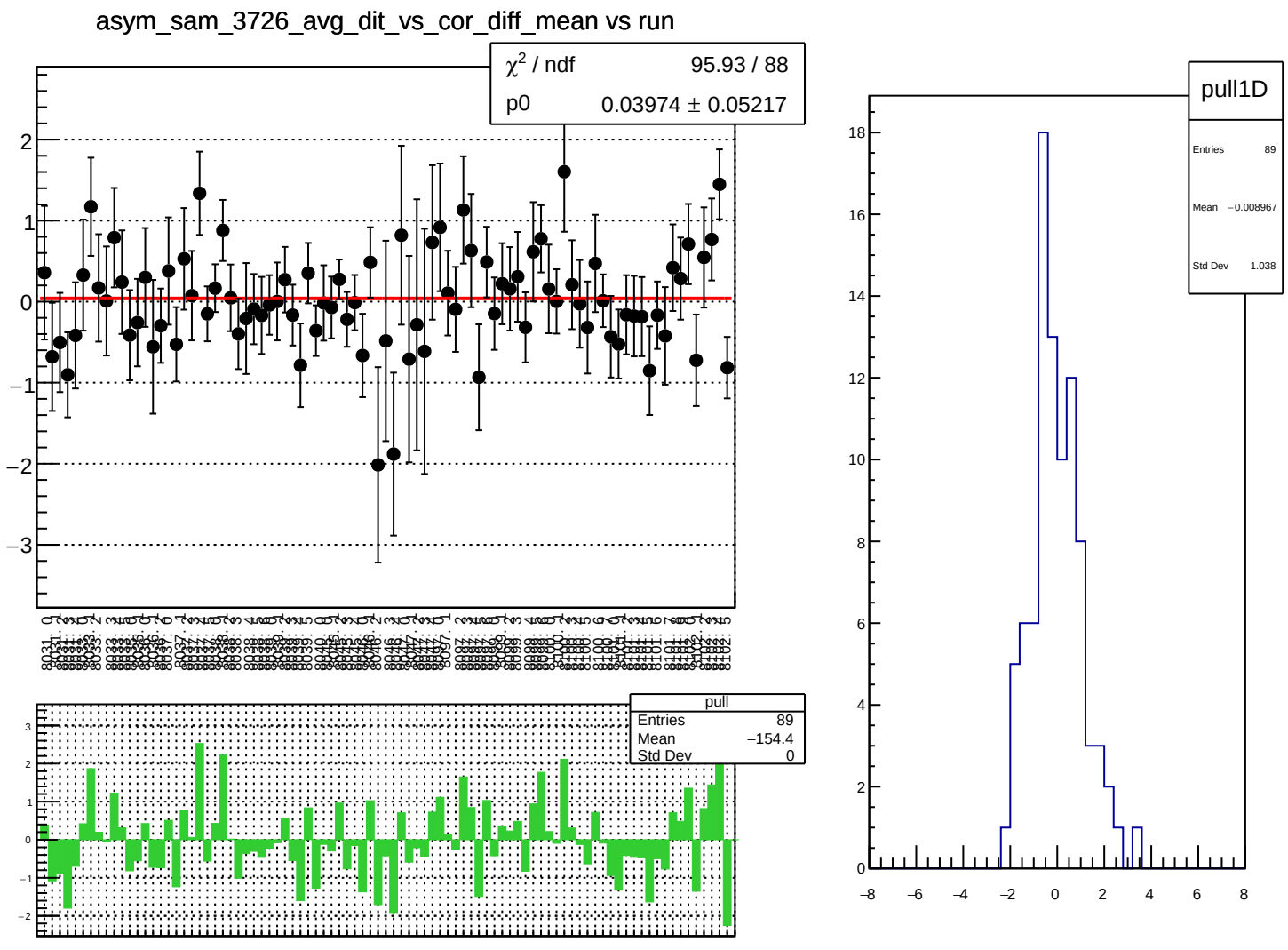

pull1D
Entries 89
Mean −0.004593
Std Dev 0.9683
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

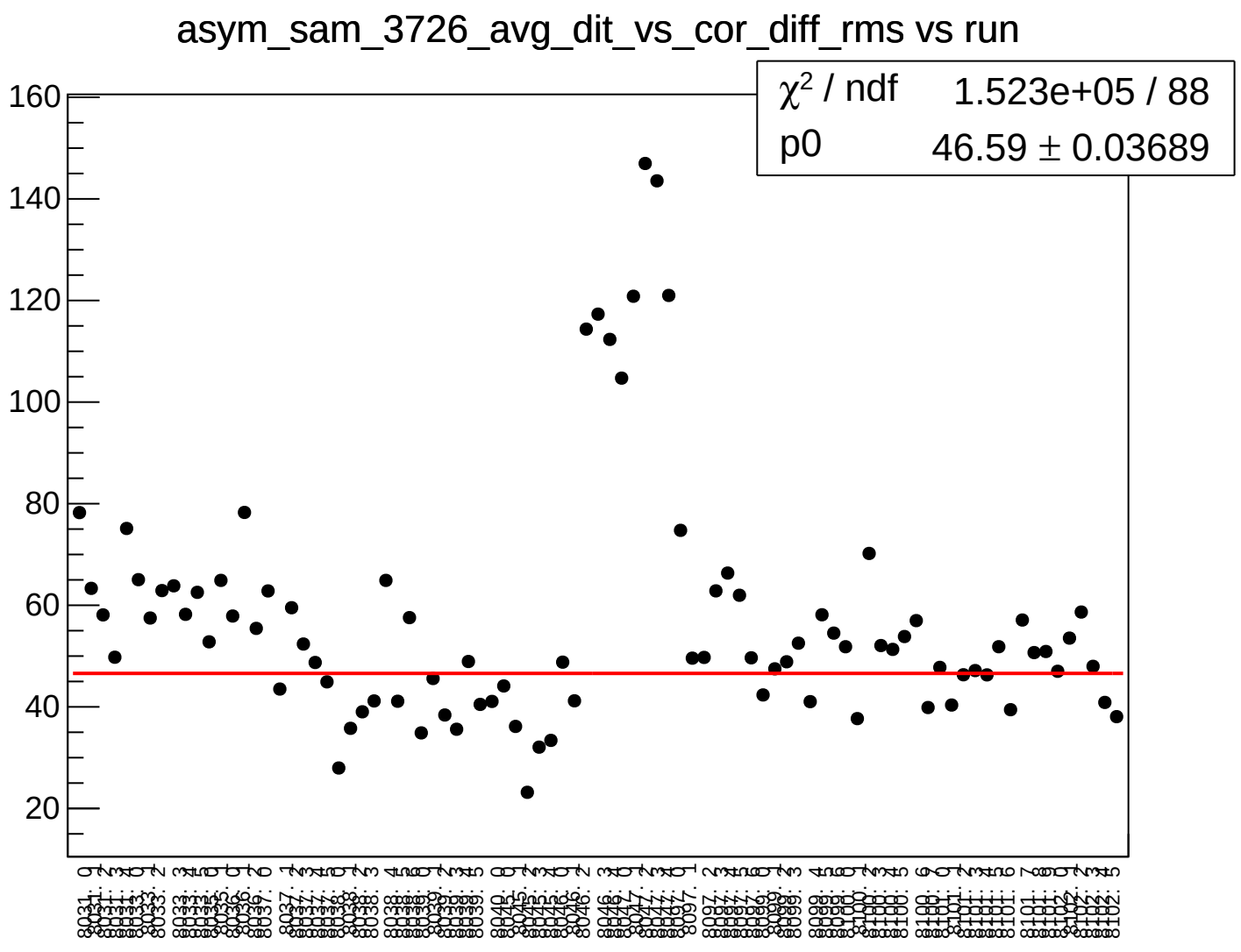

asym_sam_3726_avg_rms vs run
χ² / ndf 4.402e+04 / 88
p0 1290 ± 0.9885
1800
1700
1600
1500
1400
1300
1200
1100
1000

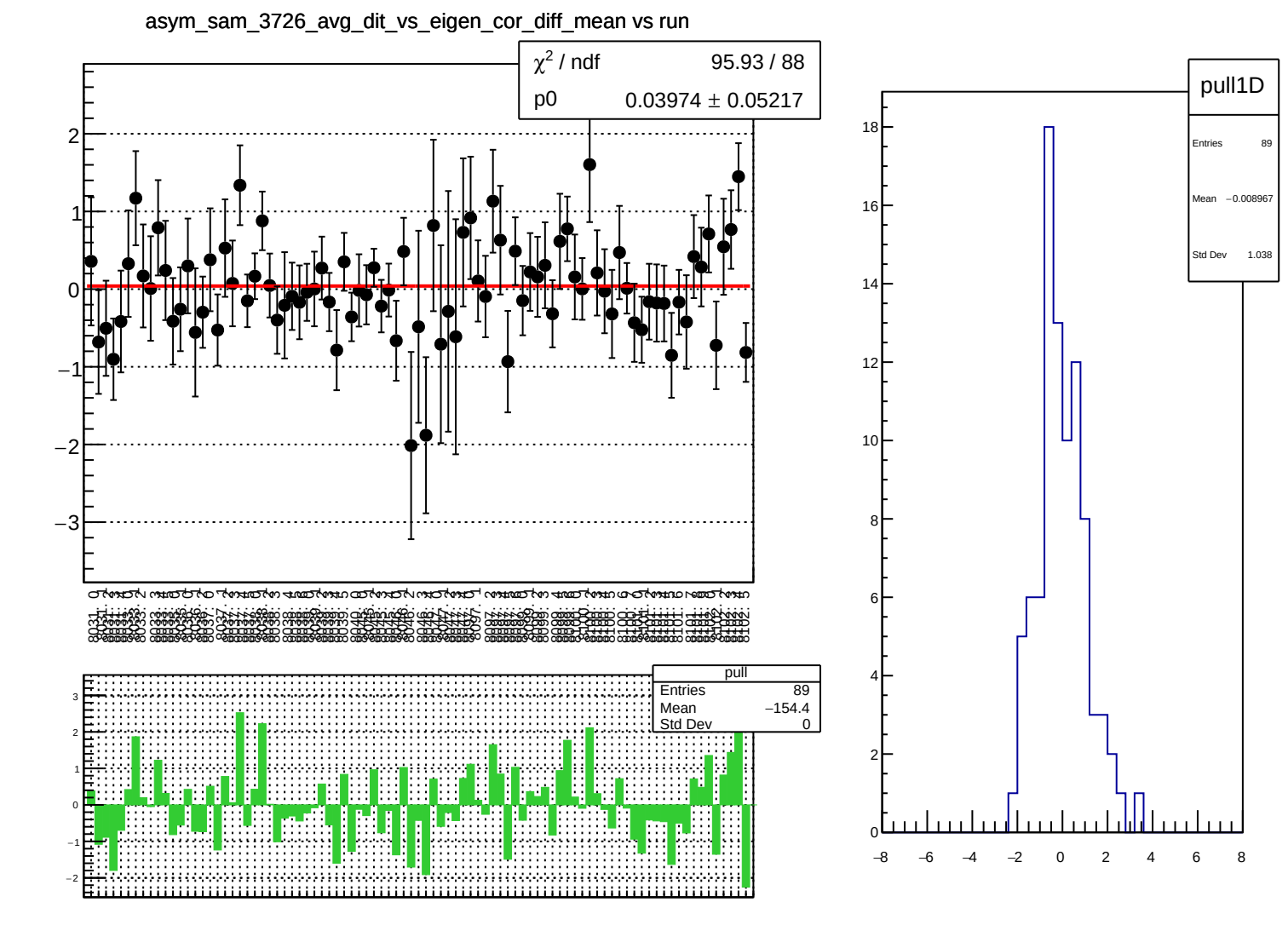

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 81.77 / 88
p0 −8.159e−14 ± 1.41e−13
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 89
Mean 42.34
Std Dev 35.77
2
1
0
−1
−2
−3

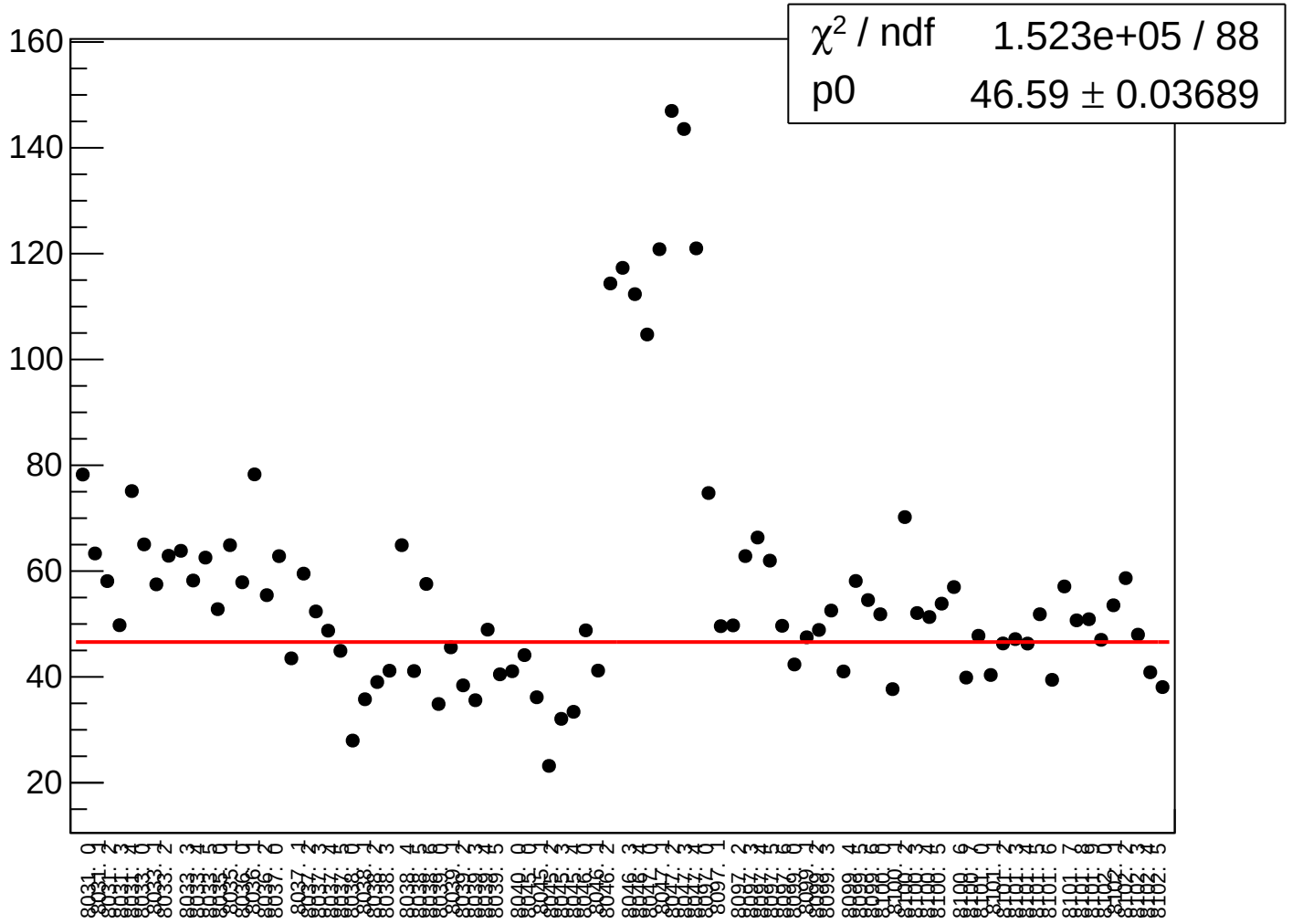

pull1D
Entries 89
Mean 0.06201
Std Dev 0.9565
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

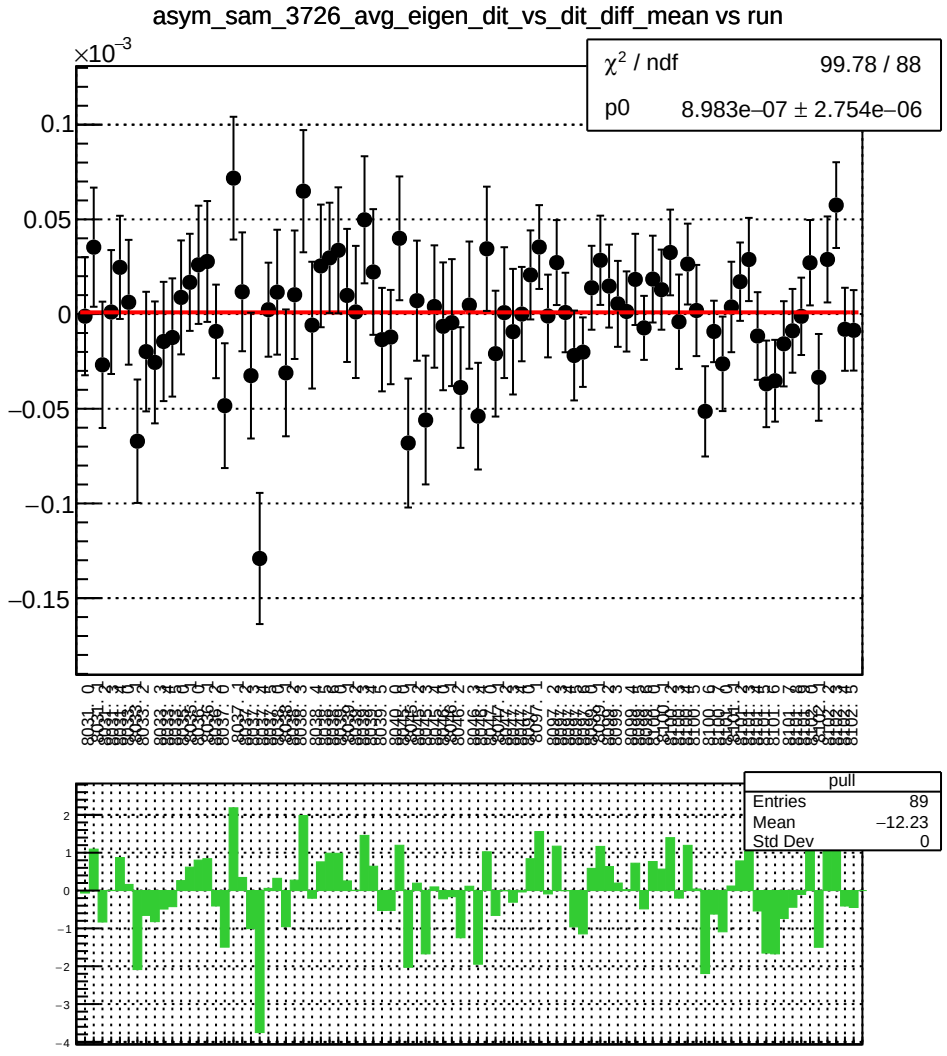

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.102e+06 / 88
p0 8.01e−11 ± 9.974e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

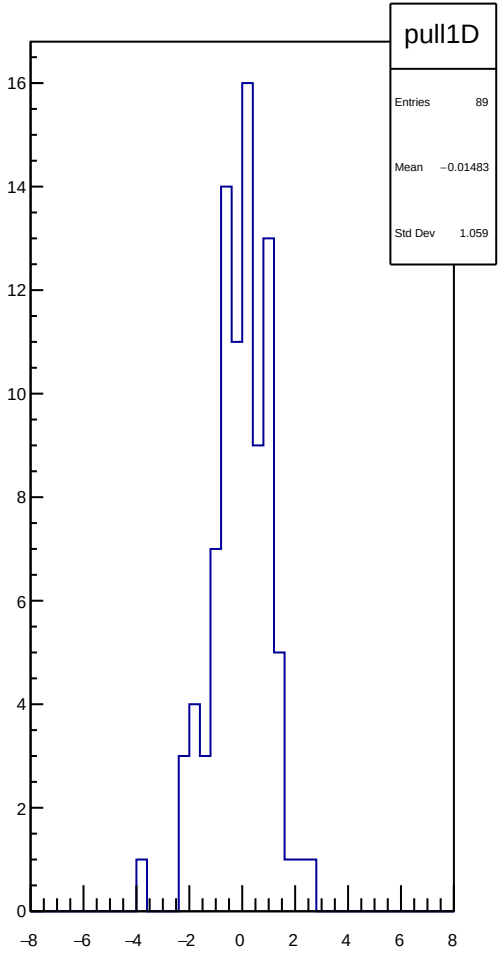

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 95.93 / 88
p0 0.03974 ± 0.05217
pull
Entries 89
Mean −154.4
Std Dev 0
pull1D
Entries 89
Mean −0.008967
Std Dev 1.038

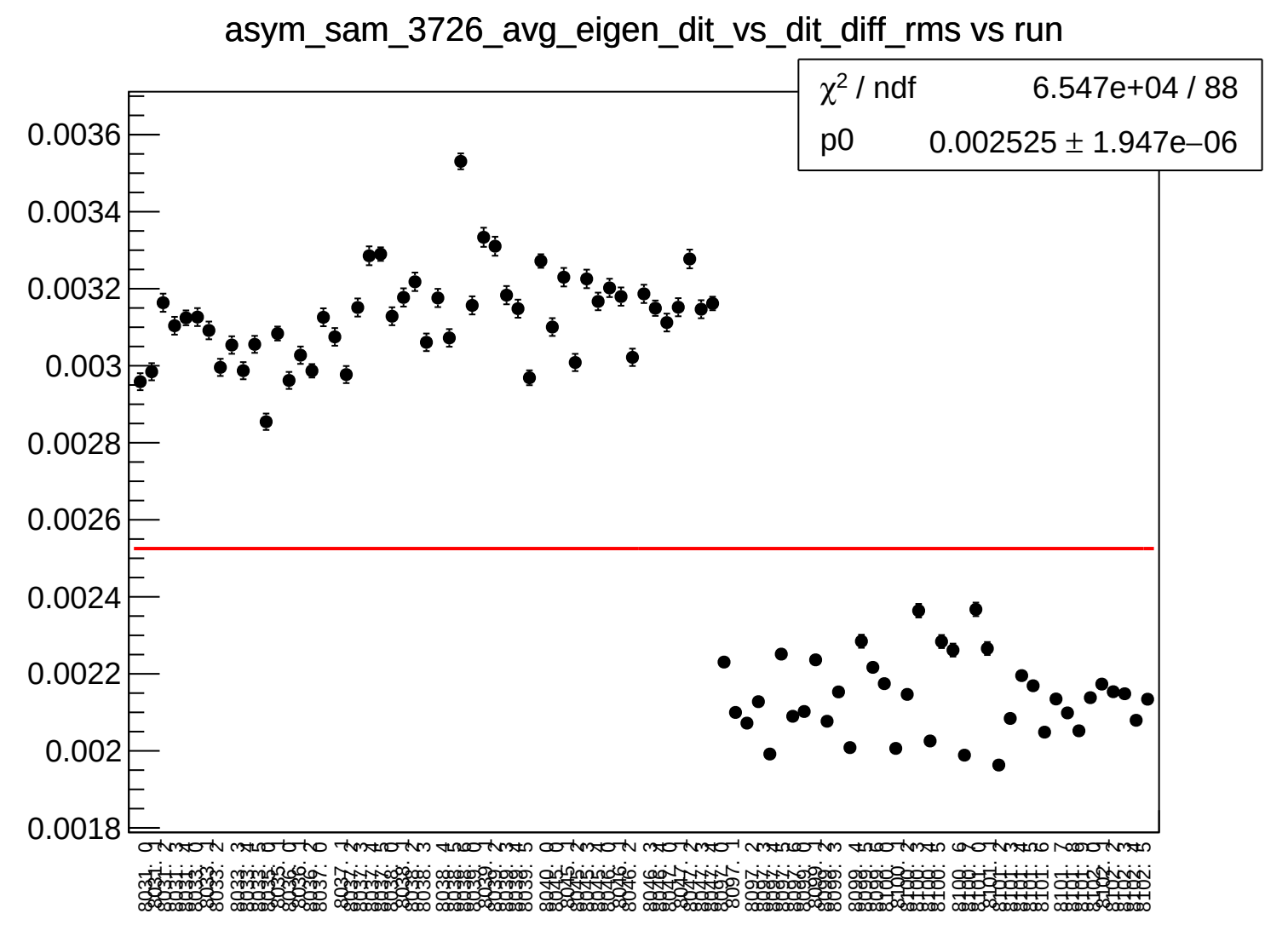

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.523e+05 / 88
p0 46.59 ± 0.03689
160
140
120
100
80
60
40
20

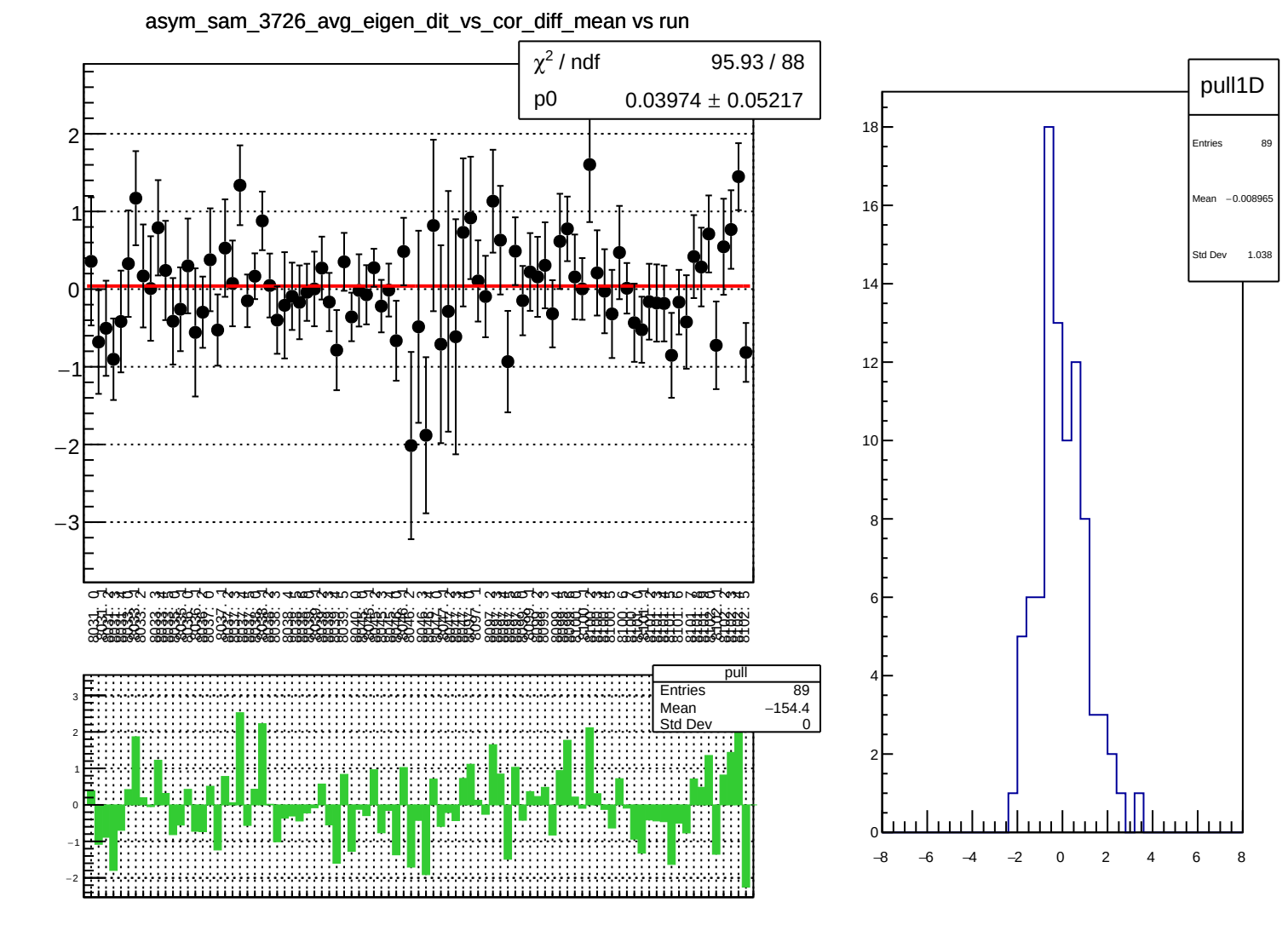

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.93 / 88
p0 0.03974 ± 0.05217
pull
Entries 89
Mean −154.4
Std Dev 0
pull1D
Entries 89
Mean −0.008967
Std Dev 1.038

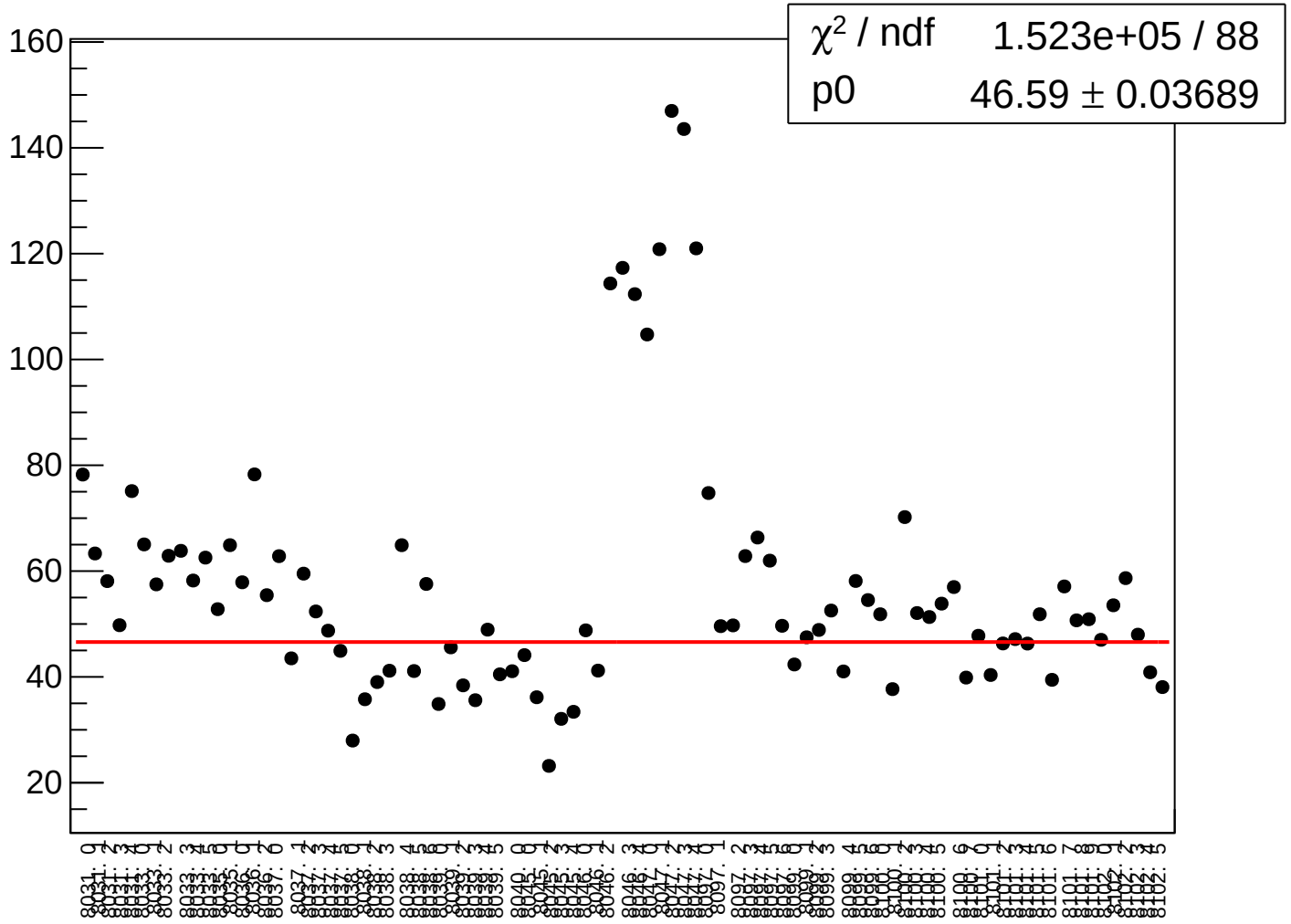

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.523e+05 / 88
p0 46.59 ± 0.03689
160
140
120
100
80
60
40
20

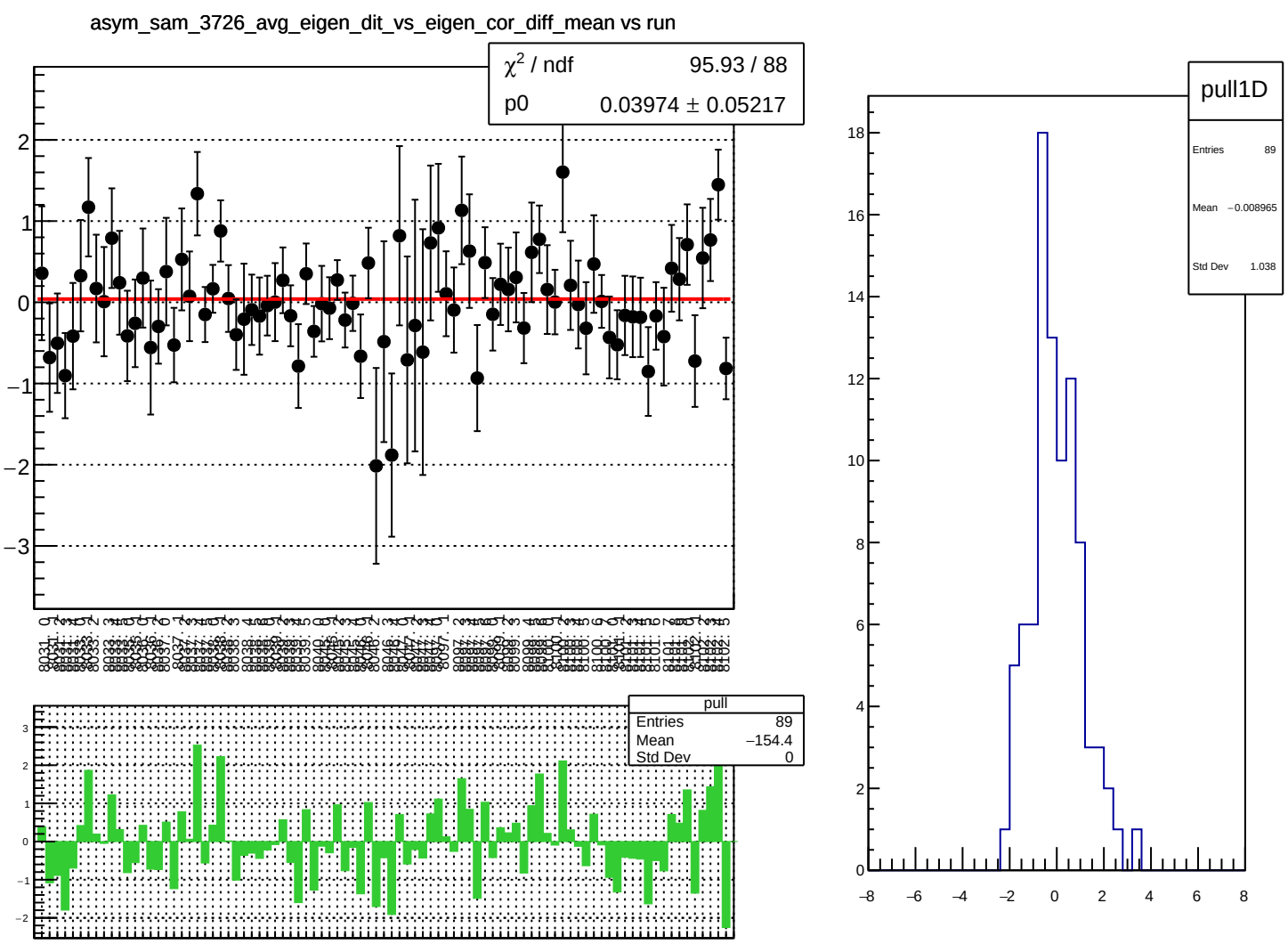

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.78 / 88
p0 8.983e−07 ± 2.754e−06
pull
Entries 89
Mean −12.23
Std Dev 0

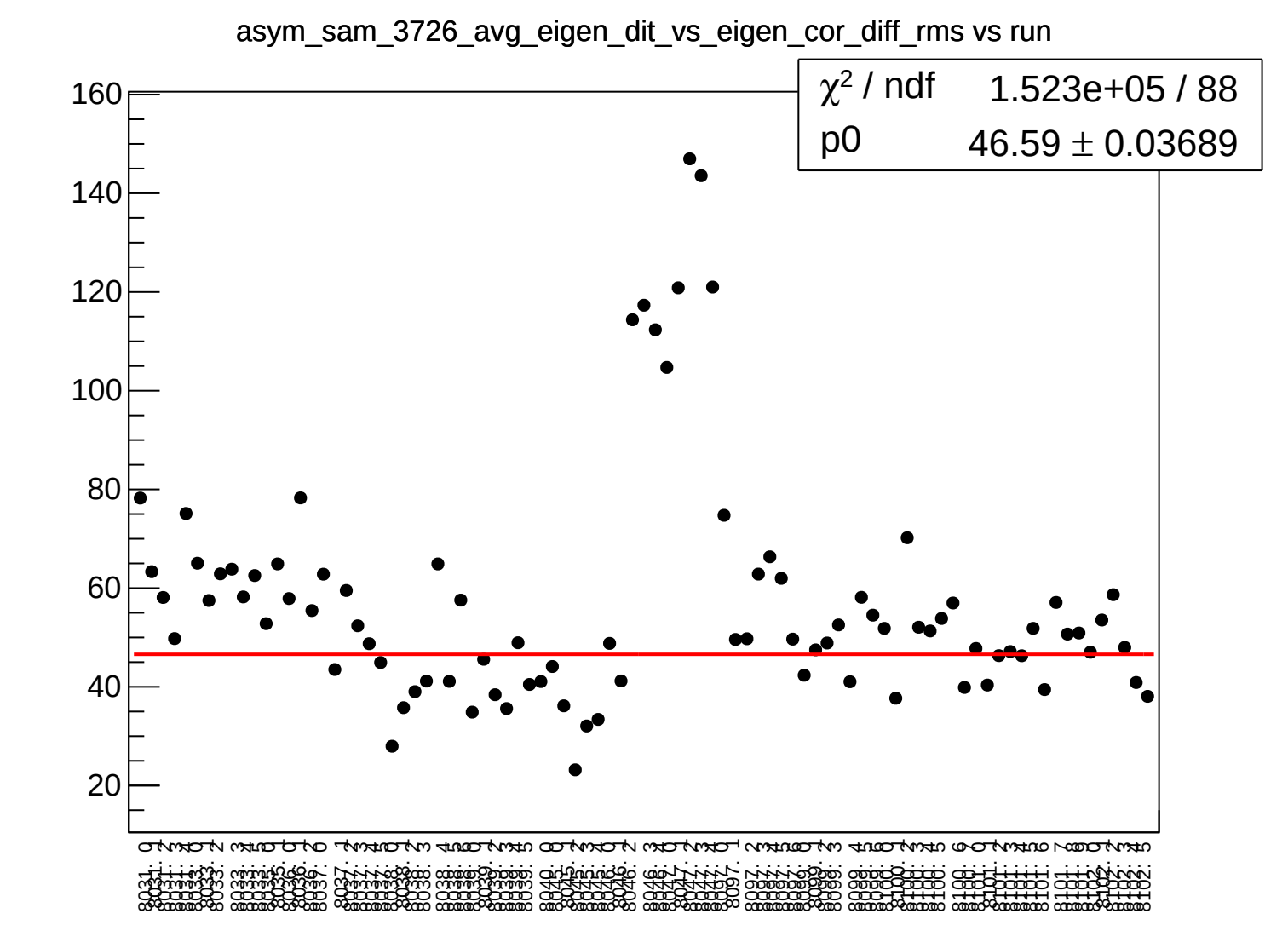

pull1D
Entries 89
Mean −0.01483
Std Dev 1.059

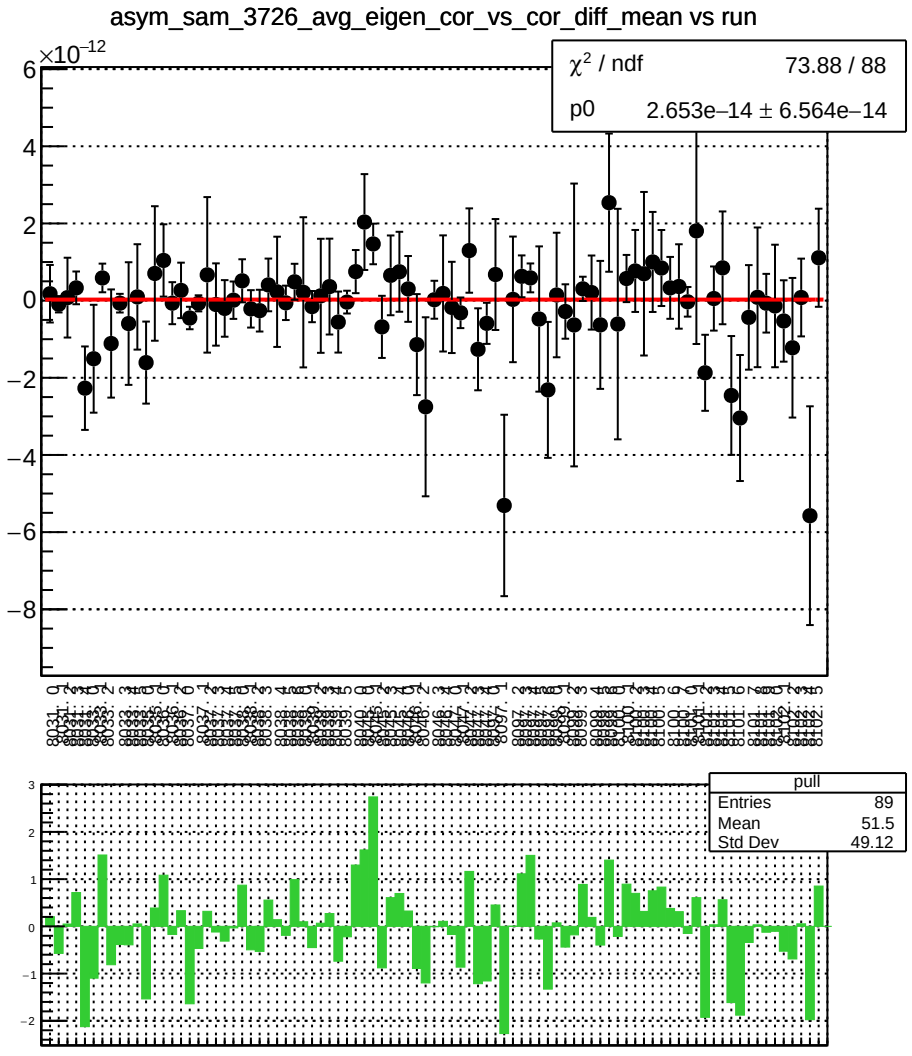

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.547e+04 / 88
p0 0.002525 ± 1.947e−06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

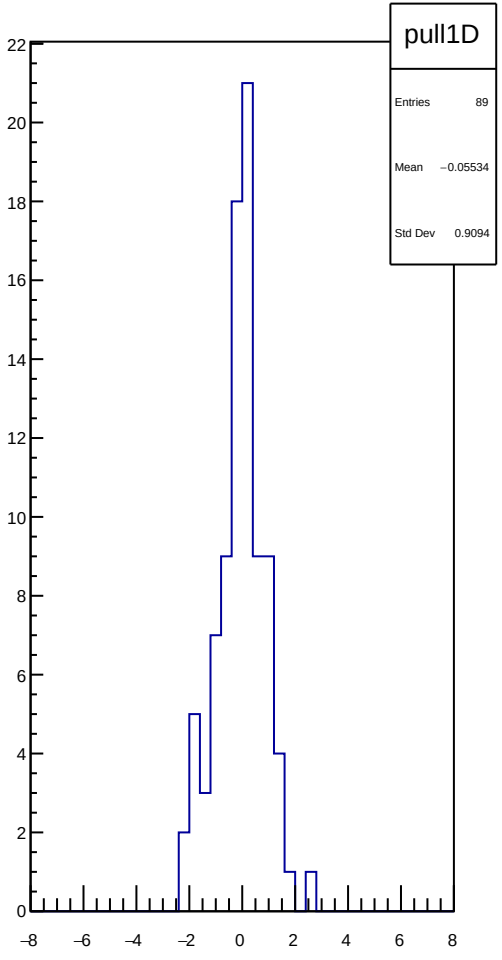

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.93 / 88
p0 0.03974 ± 0.05217
pull
Entries 89
Mean −154.4
Std Dev 0
pull1D
Entries 89
Mean −0.008965
Std Dev 1.038

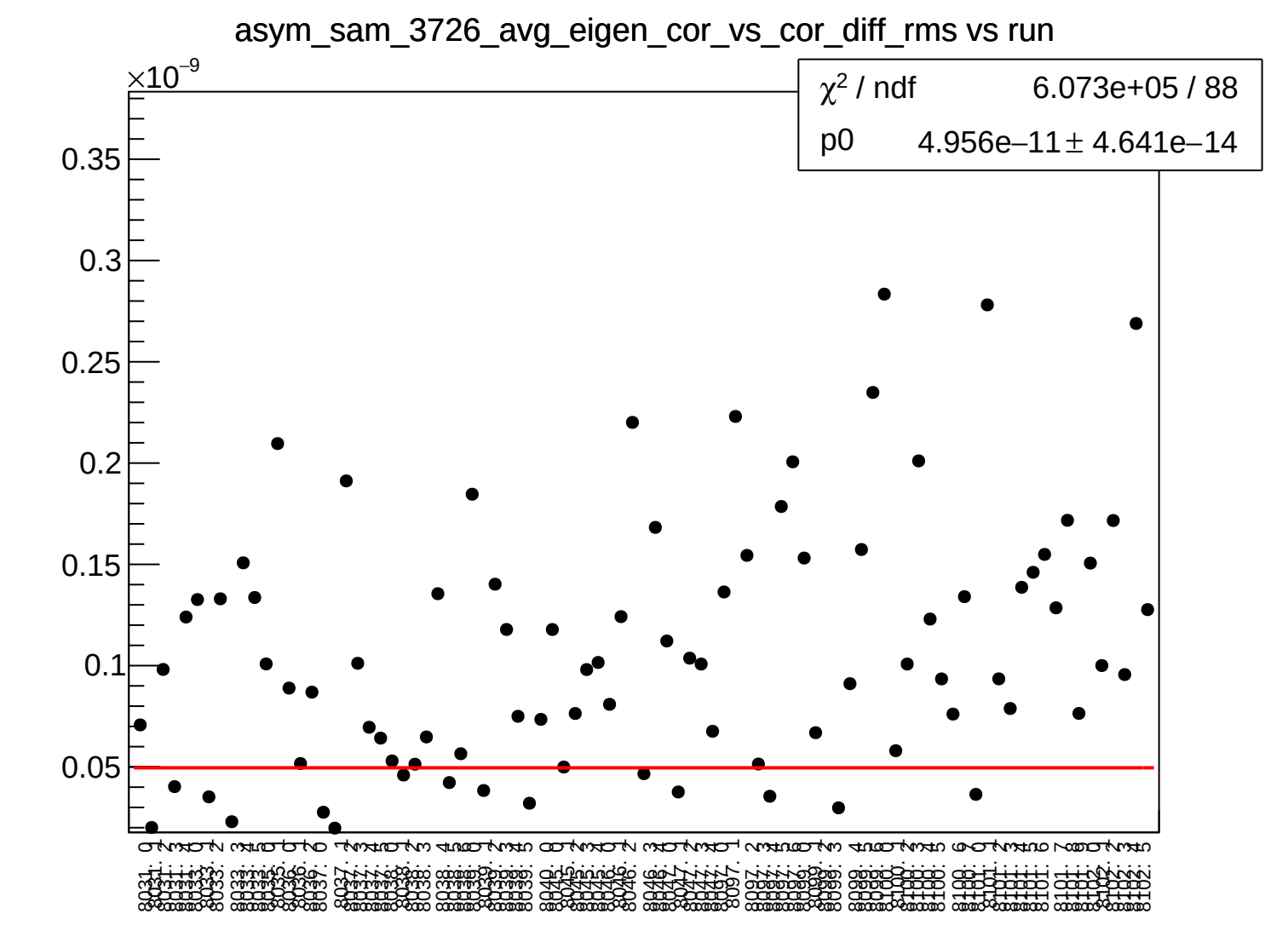

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.523e+05 / 88
p0 46.59 ± 0.03689
160
140
120
100
80
60
40
20

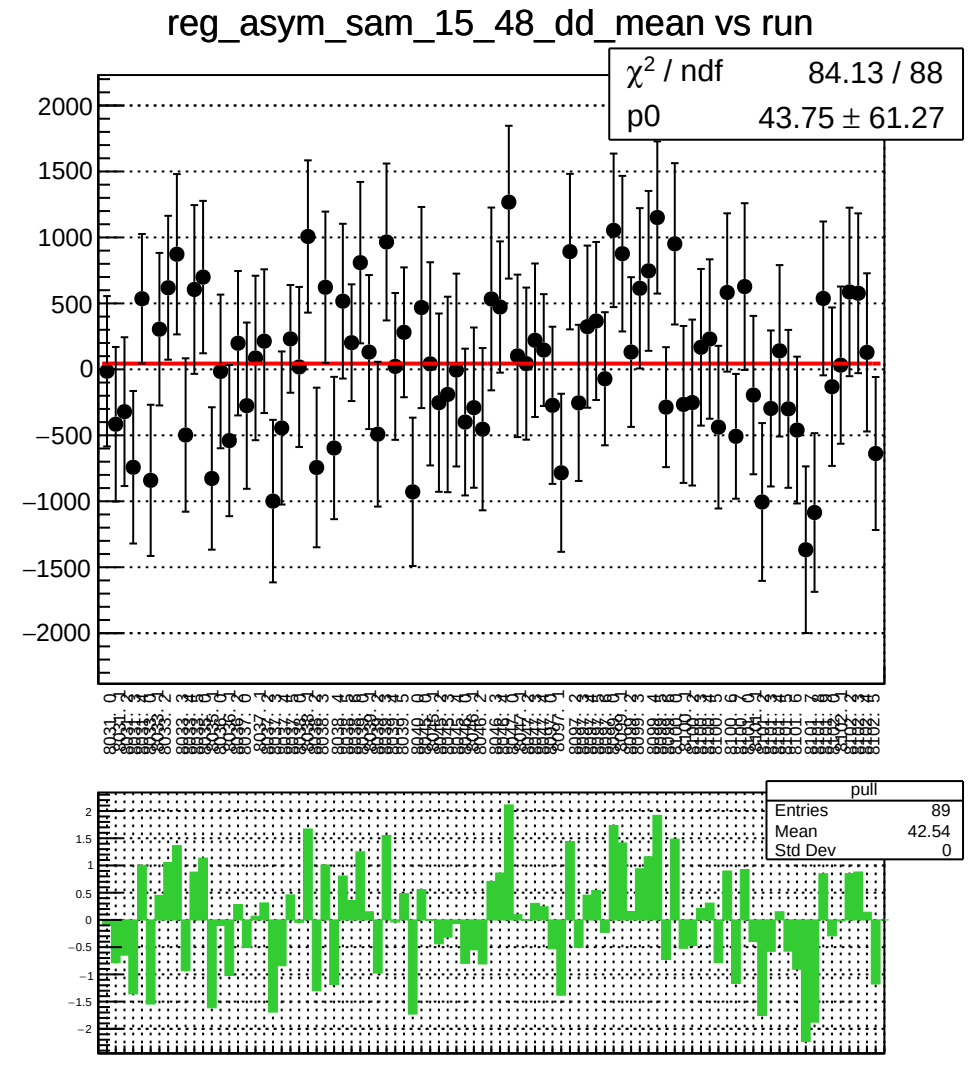

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.93 / 88
p0 0.03974 ± 0.05217
pull
Entries 89
Mean −154.4
Std Dev 0
pull1D
Entries 89
Mean −0.008965
Std Dev 1.038

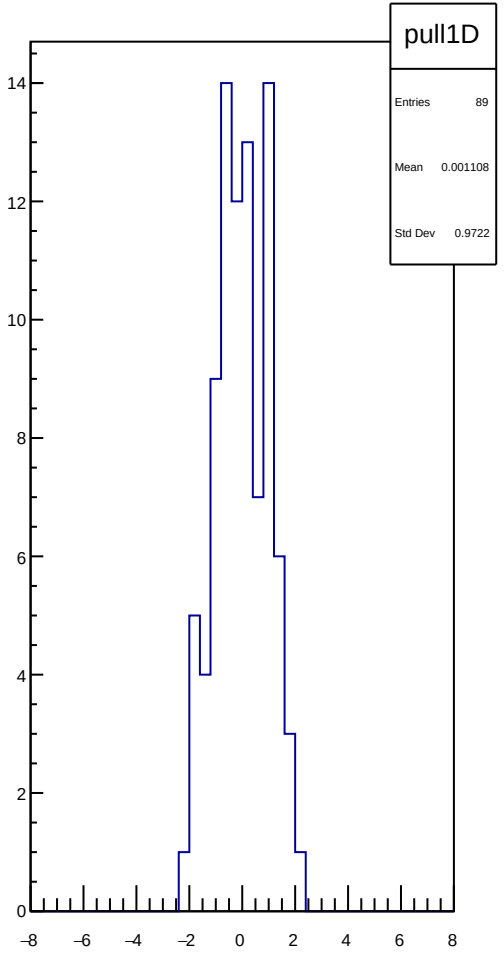

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.523e+05 / 88
p0 46.59 ± 0.03689
160
140
120
100
80
60
40
20

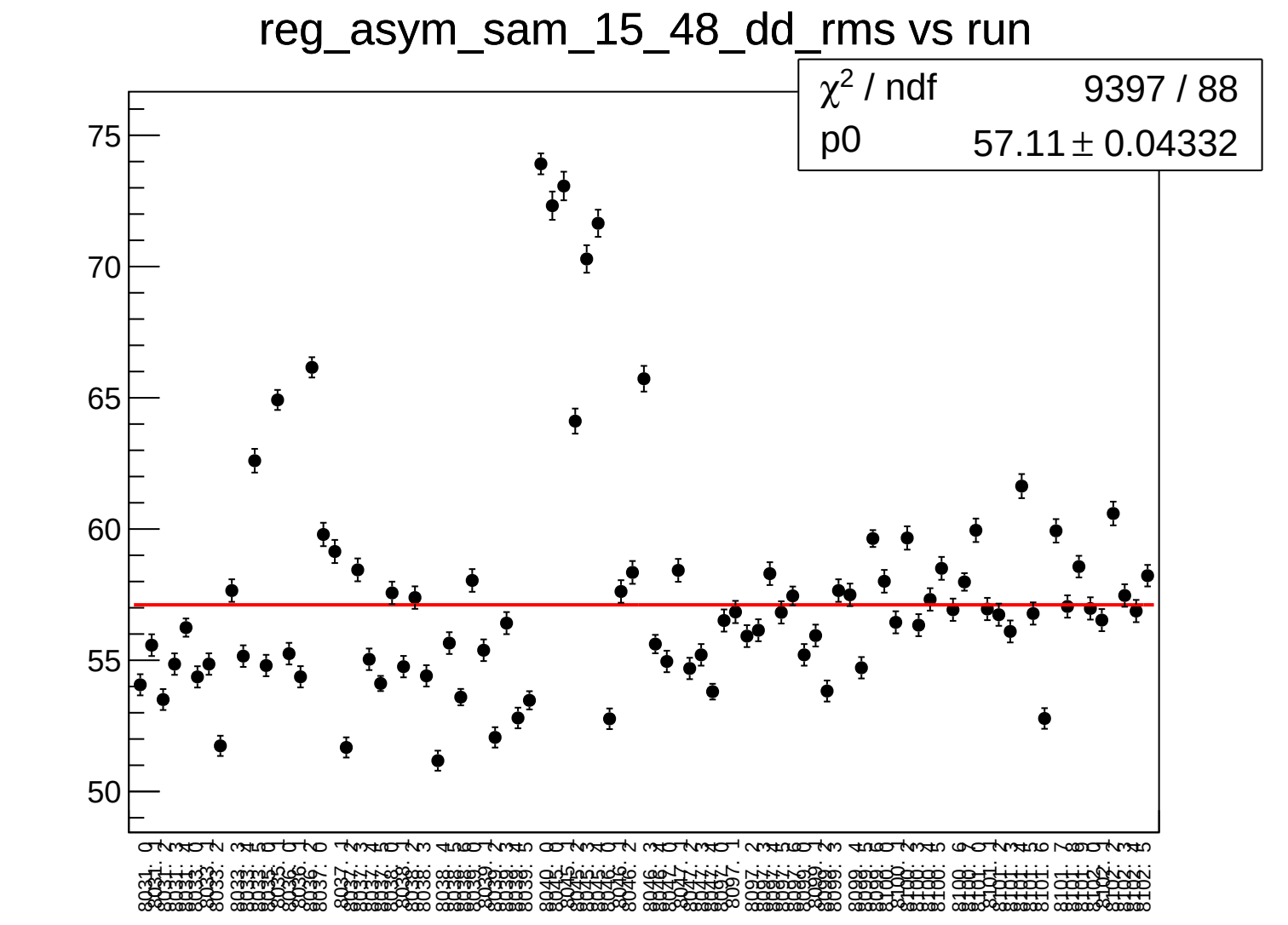

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.88 / 88
p0 2.653e−14 ± 6.564e−14
pull
Entries 89
Mean 51.5
Std Dev 49.12

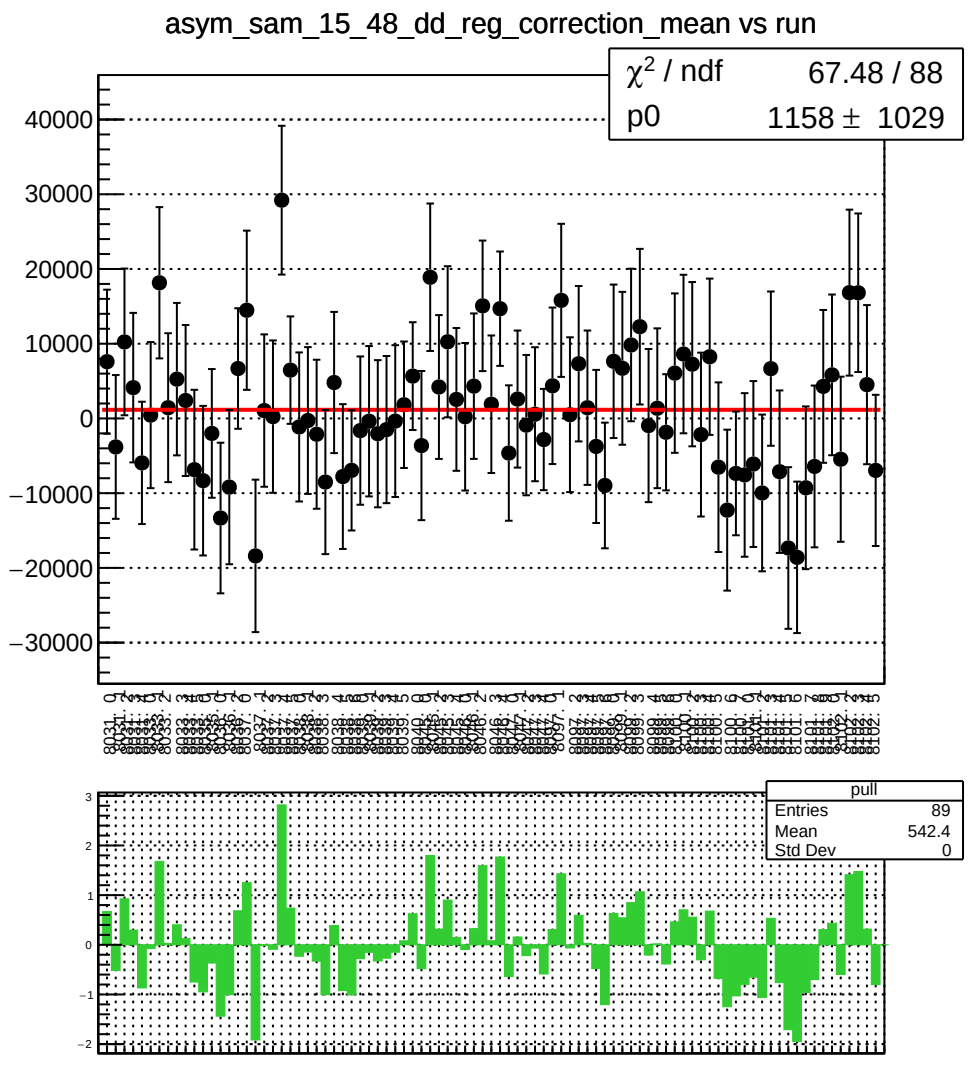

pull1D
Entries 89
Mean −0.05534
Std Dev 0.9094

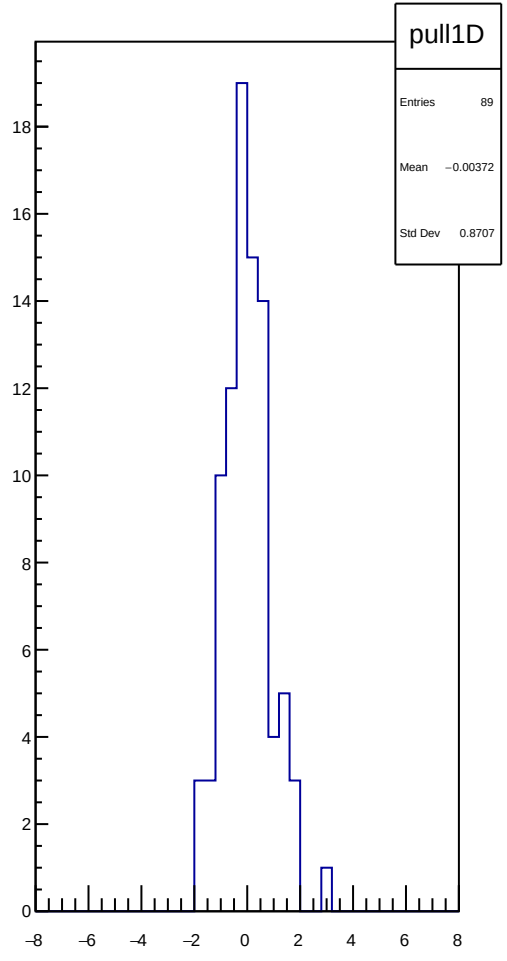

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.073e+05 / 88
p0 4.956e−11 ± 4.641e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

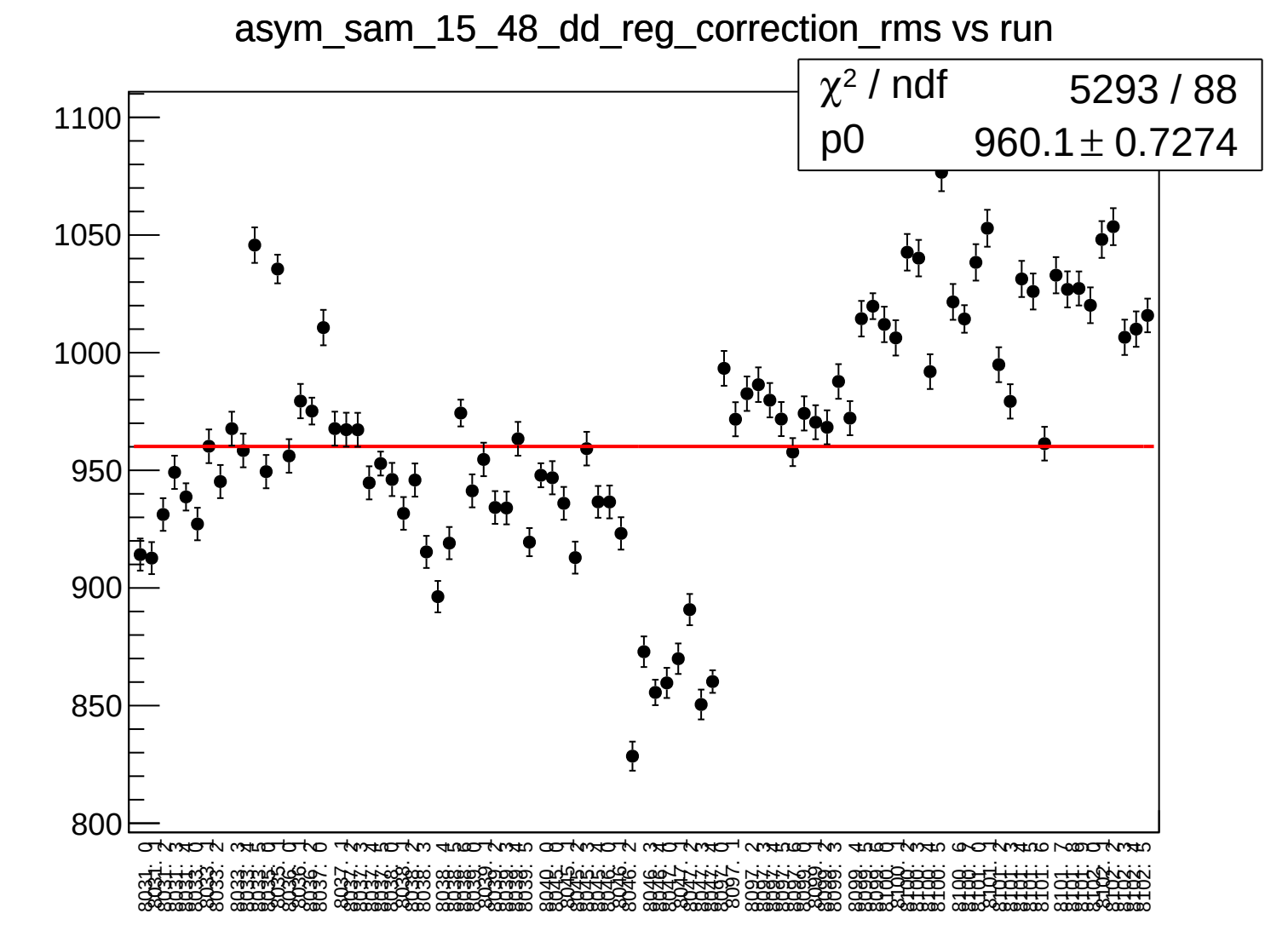

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 84.13 / 88
p0 43.75 ± 61.27
pull
Entries 89
Mean 42.54
Std Dev 0

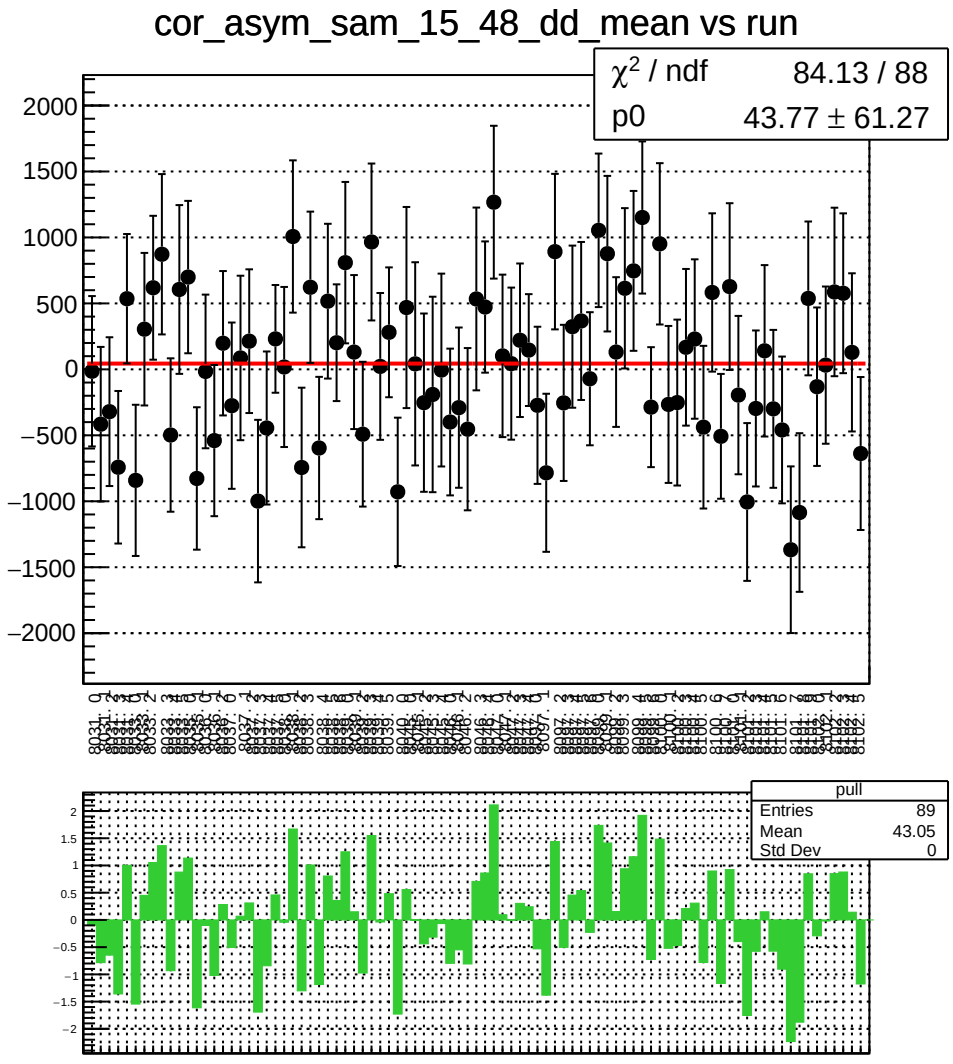

pull1D
Entries 89
Mean 0.001108
Std Dev 0.9722

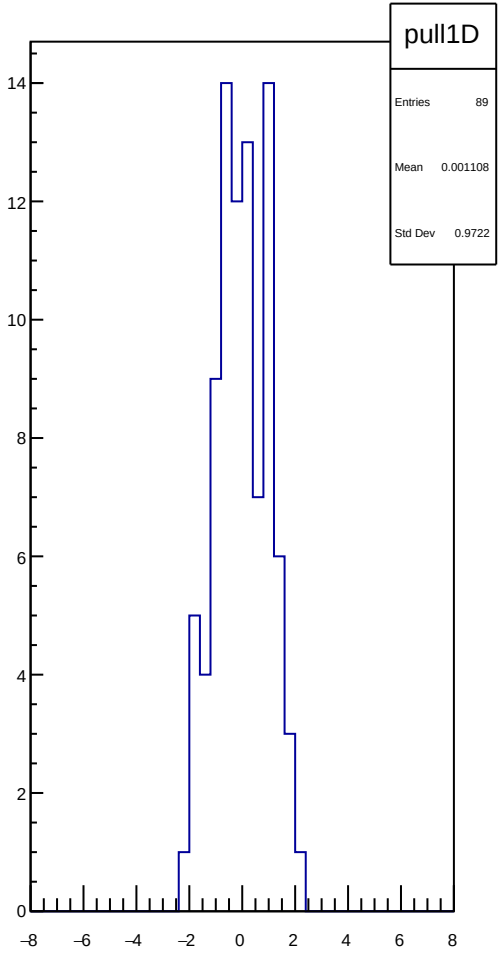

reg_asym_sam_15_48_dd_rms vs run
$\chi^2$ / ndf 9397 / 88
p0 57.11 ± 0.04332
75
70
65
60
55
50

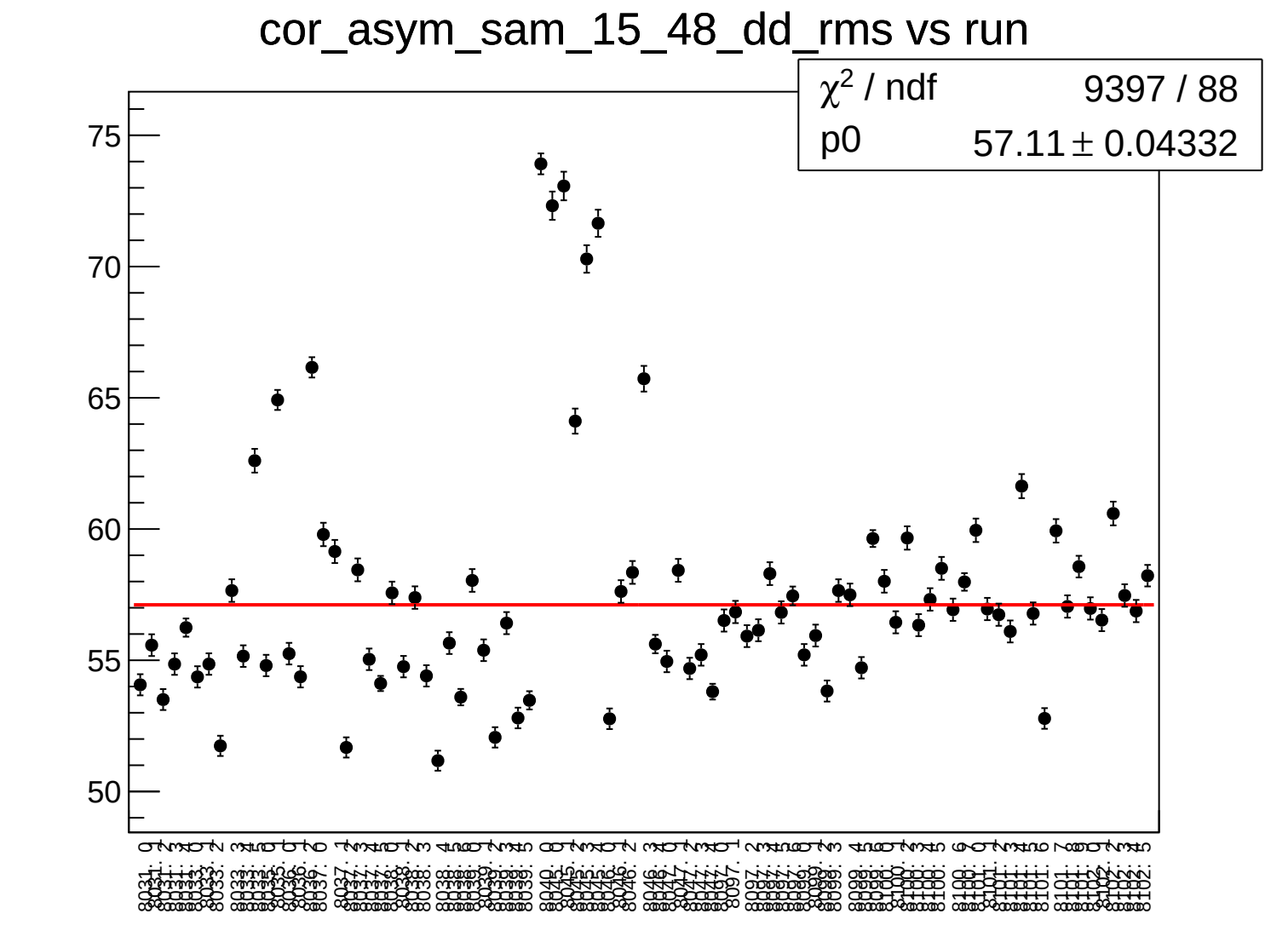

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 67.48 / 88
p0 1158 ± 1029
pull
Entries 89
Mean 542.4
Std Dev 0

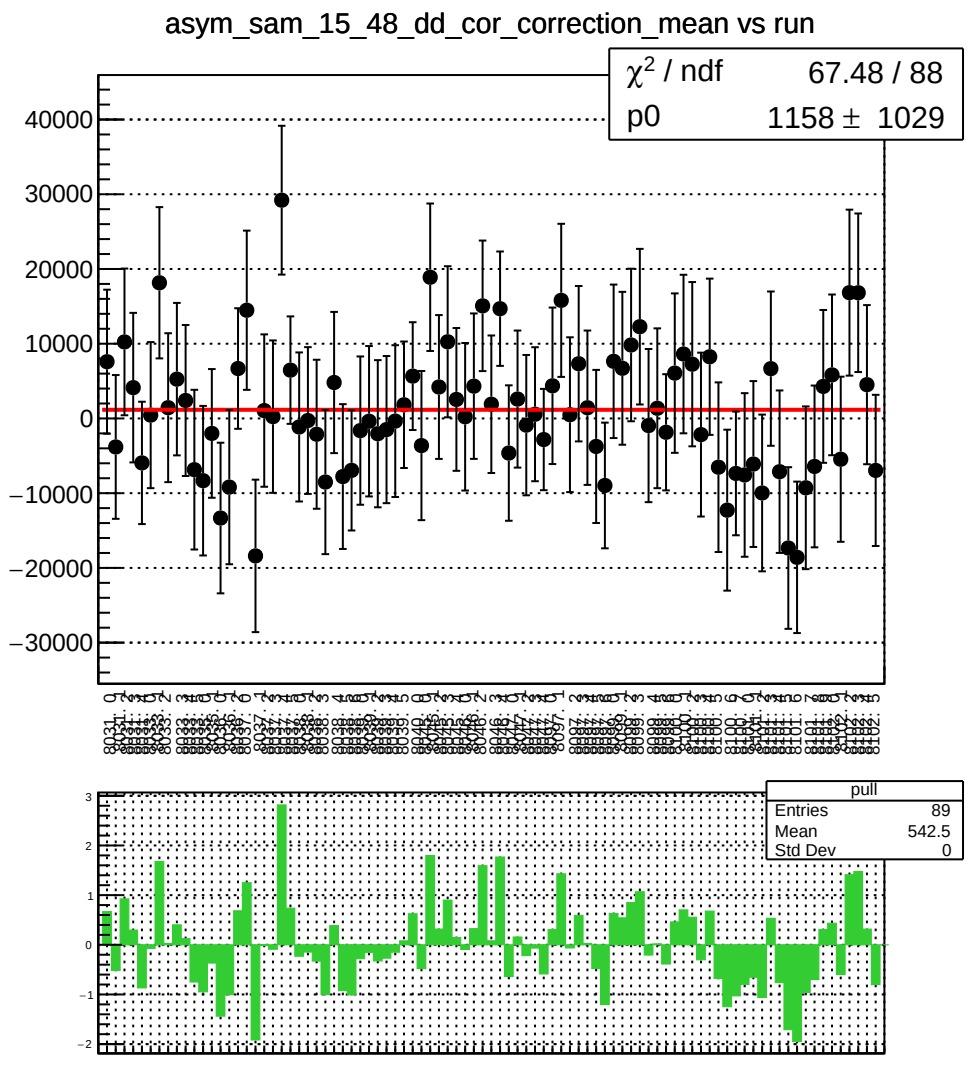

pull1D
Entries 89
Mean −0.00372
Std Dev 0.8707

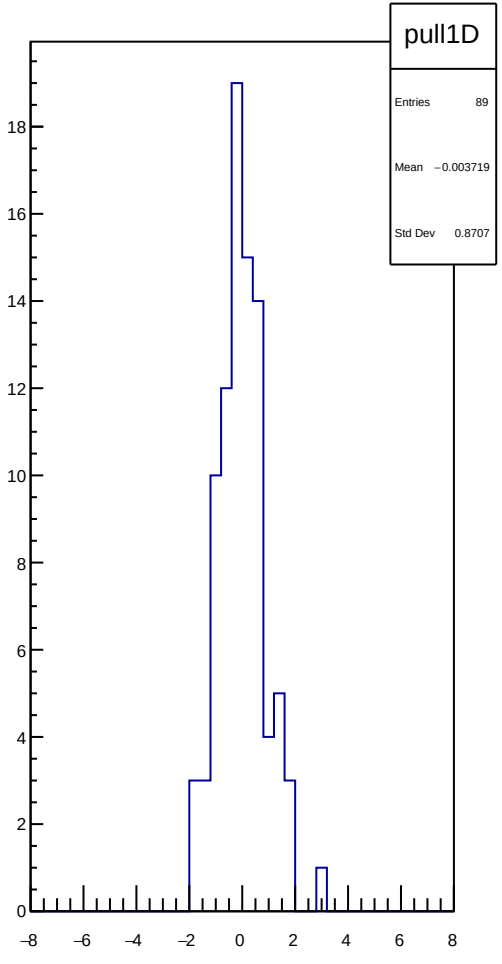

asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 5293 / 88
p0 960.1 ± 0.7274
1100
1050
1000
950
900
850
800

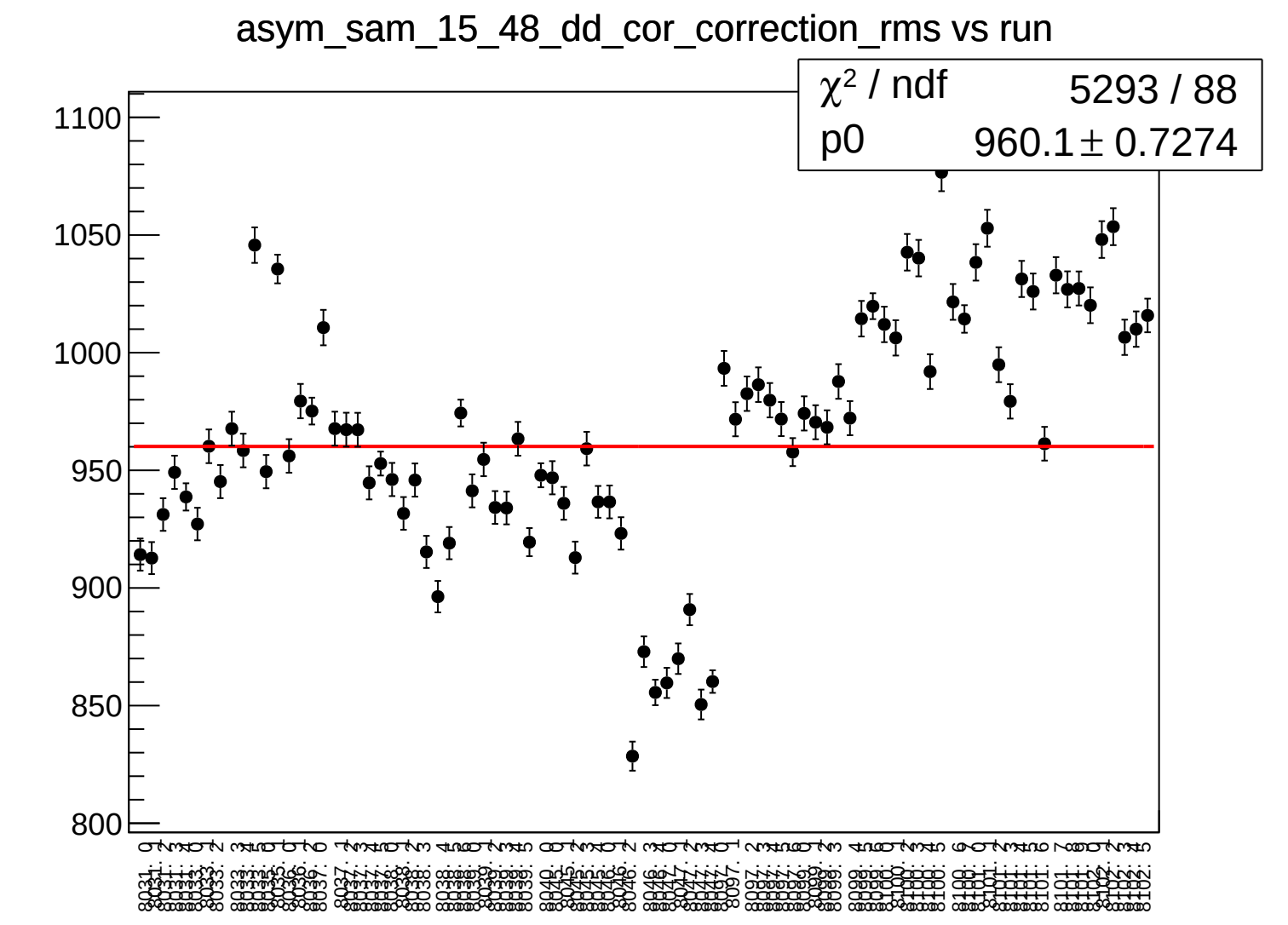

cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 84.13 / 88
p0 43.77 ± 61.27
pull
Entries 89
Mean 43.05
Std Dev 0

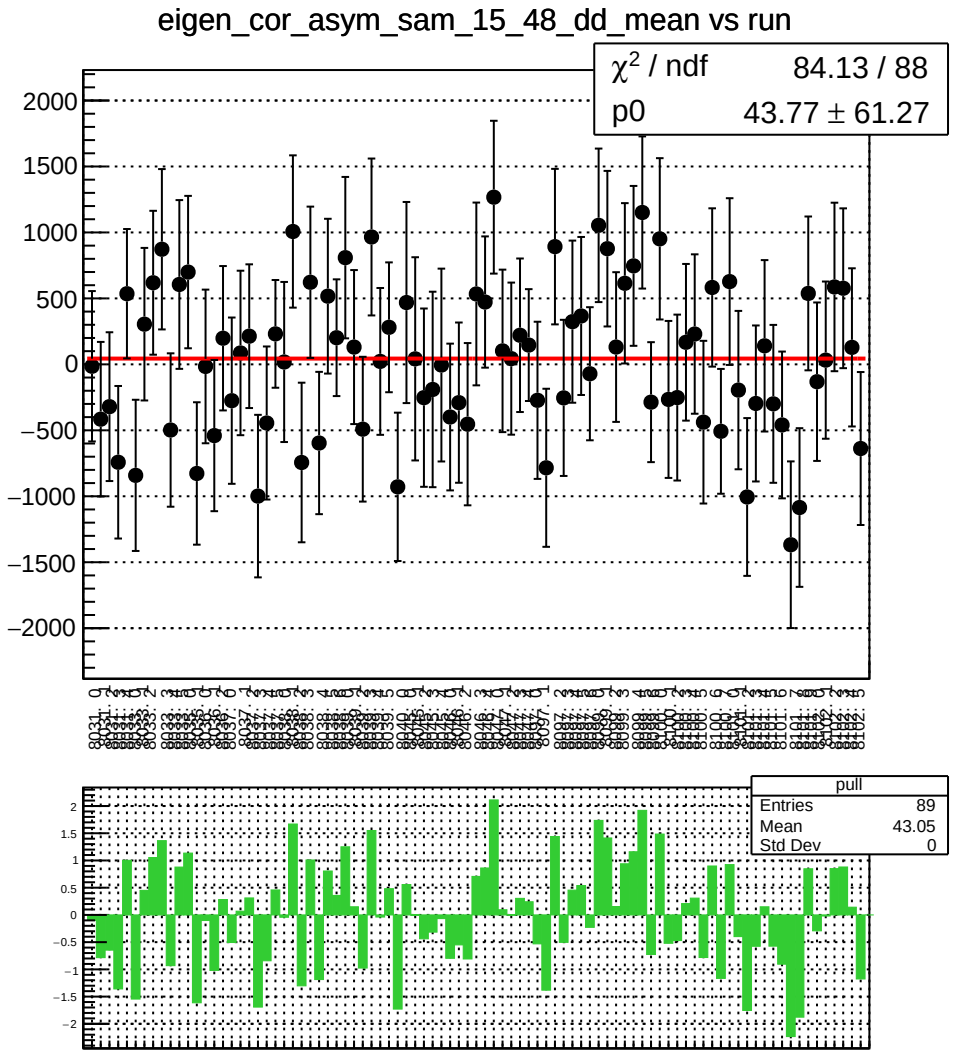

pull1D
Entries 89
Mean 0.001108
Std Dev 0.9722

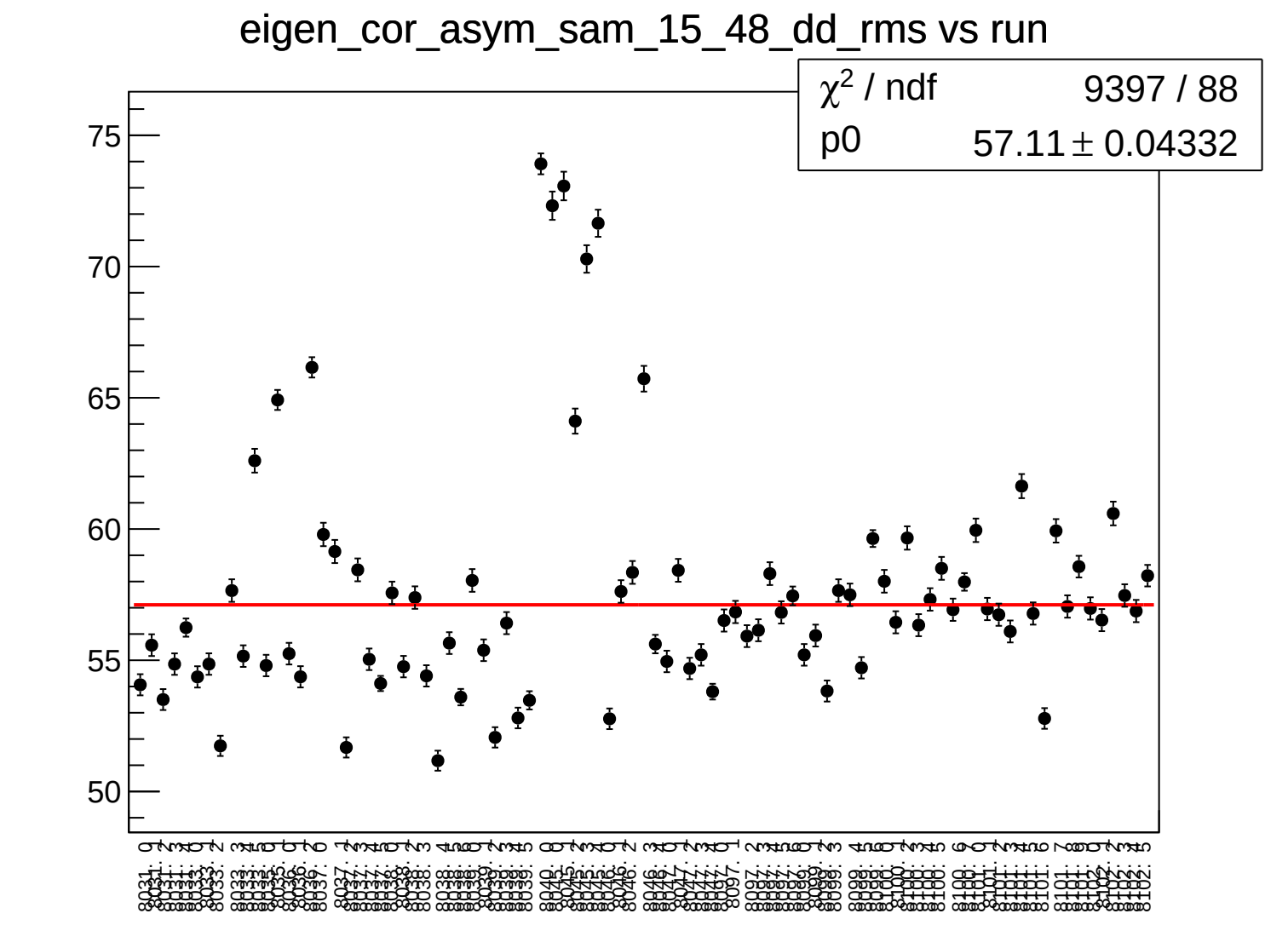

cor_asym_sam_15_48_dd_rms vs run
$\chi^2$ / ndf 9397 / 88
p0 57.11 ± 0.04332
75
70
65
60
55
50

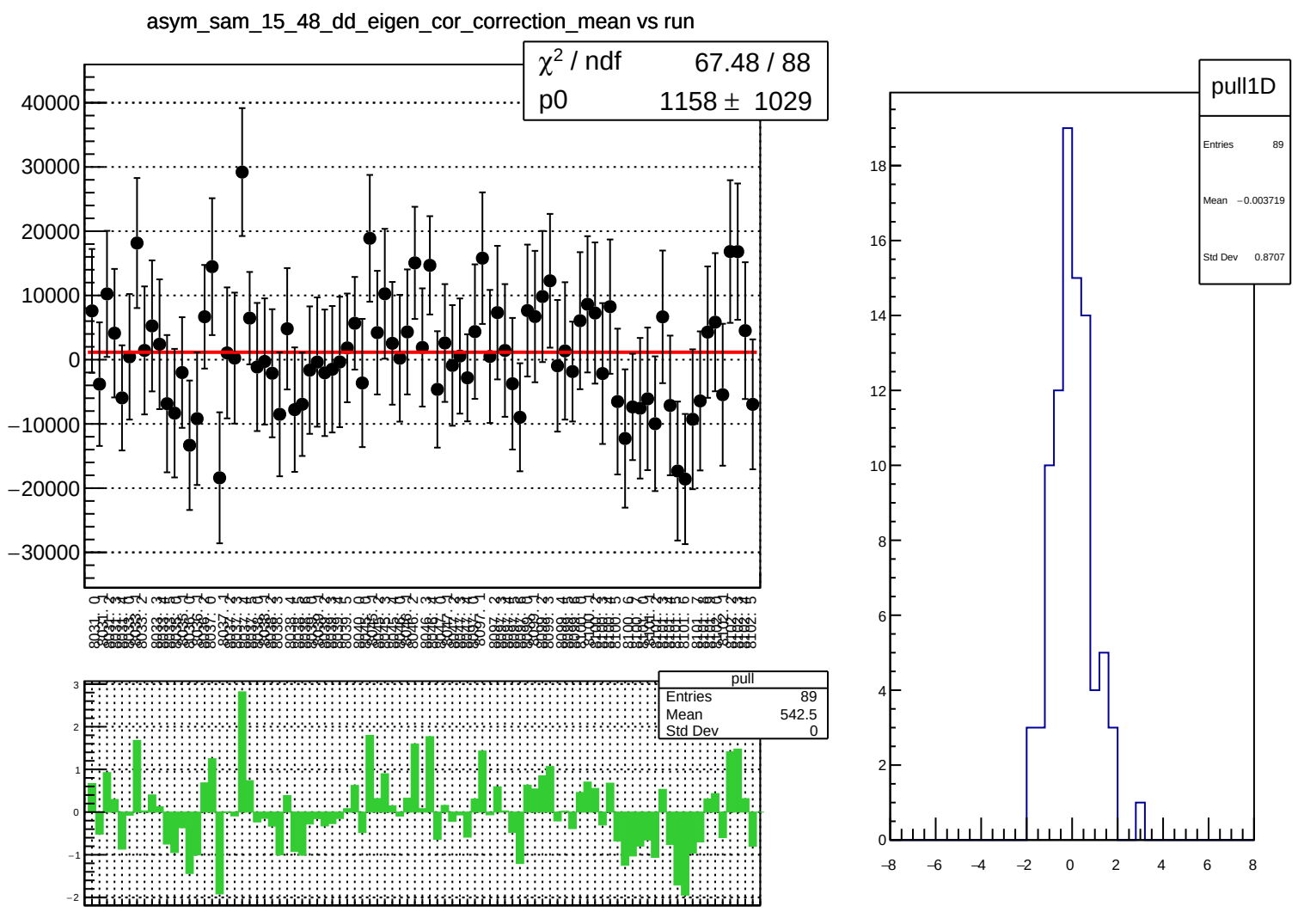

asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 67.48 / 88
p0 1158 ± 1029
pull
Entries 89
Mean 542.5
Std Dev 0

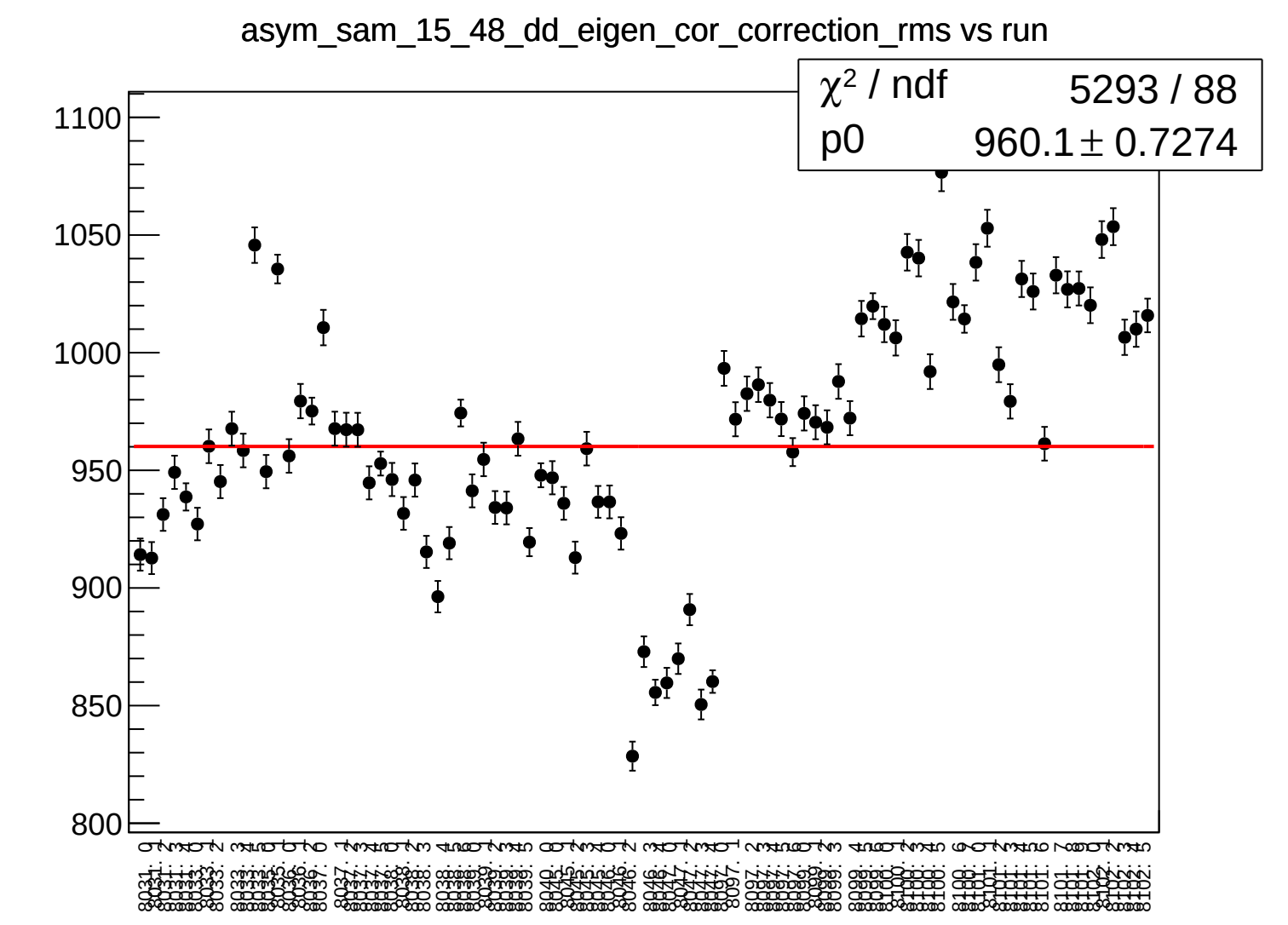

pull1D
Entries 89
Mean −0.003719
Std Dev 0.8707

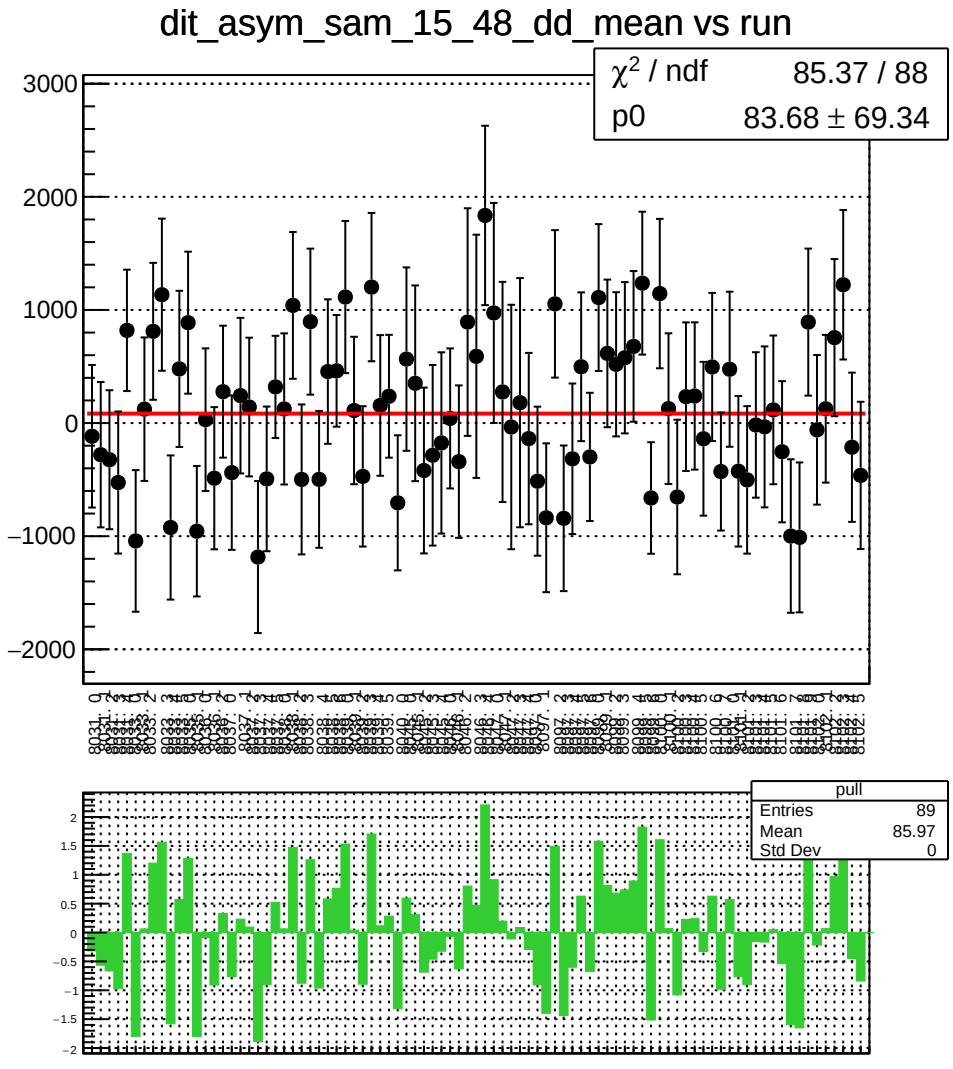

asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 5293 / 88
p0 960.1 ± 0.7274
1100
1050
1000
950
900
850
800

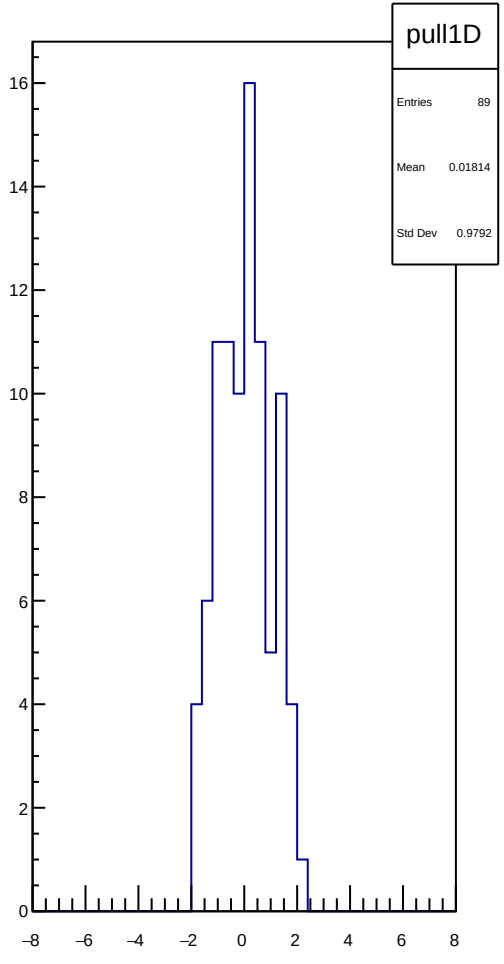

eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 84.13 / 88
p0 43.77 ± 61.27
pull
Entries 89
Mean 43.05
Std Dev 0
pull1D
Entries 89
Mean 0.001108
Std Dev 0.9722

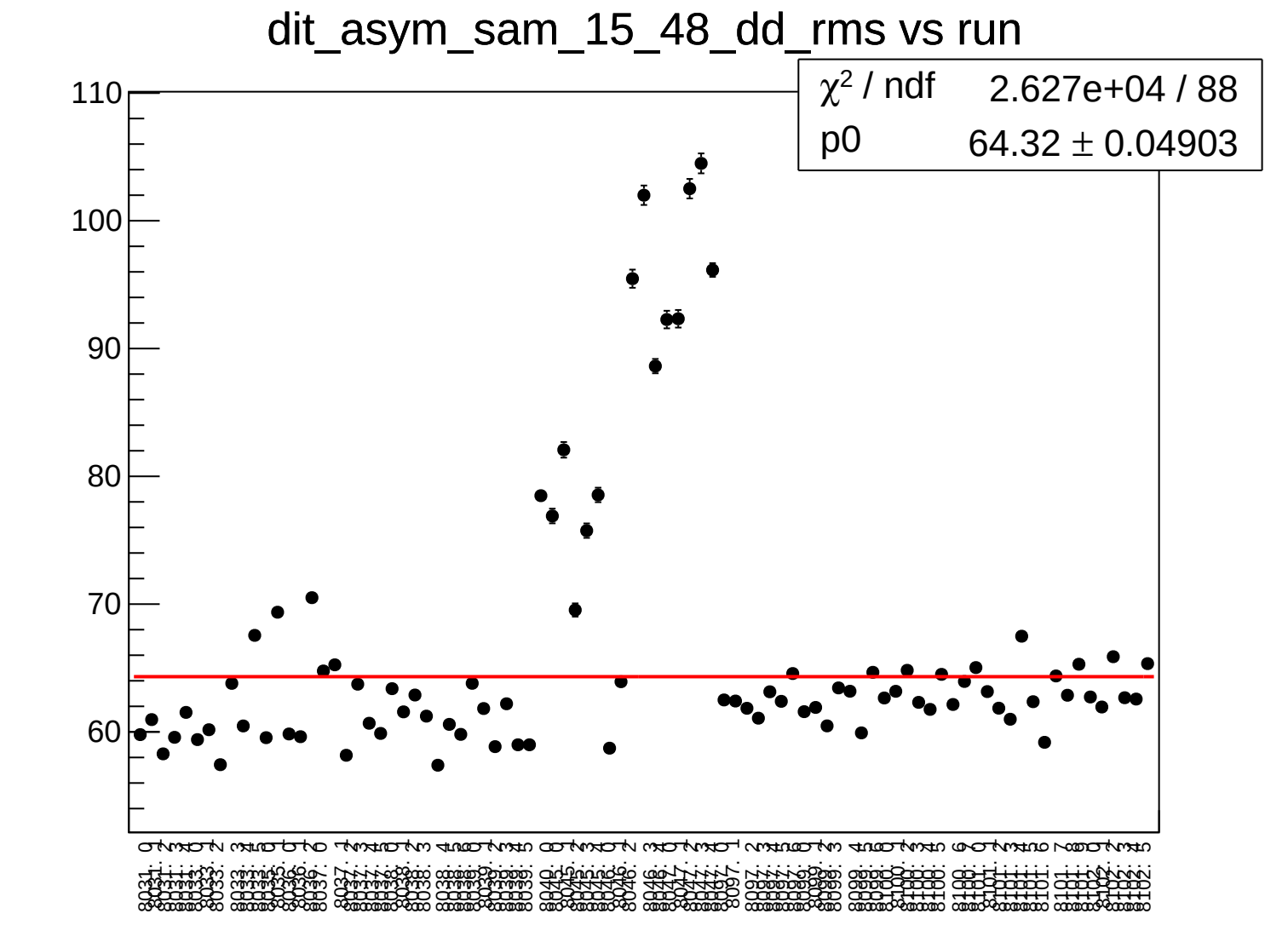

eigen_cor_asym_sam_15_48_dd_rms vs run
$\chi^2$ / ndf 9397 / 88
p0 57.11 ± 0.04332
75
70
65
60
55
50

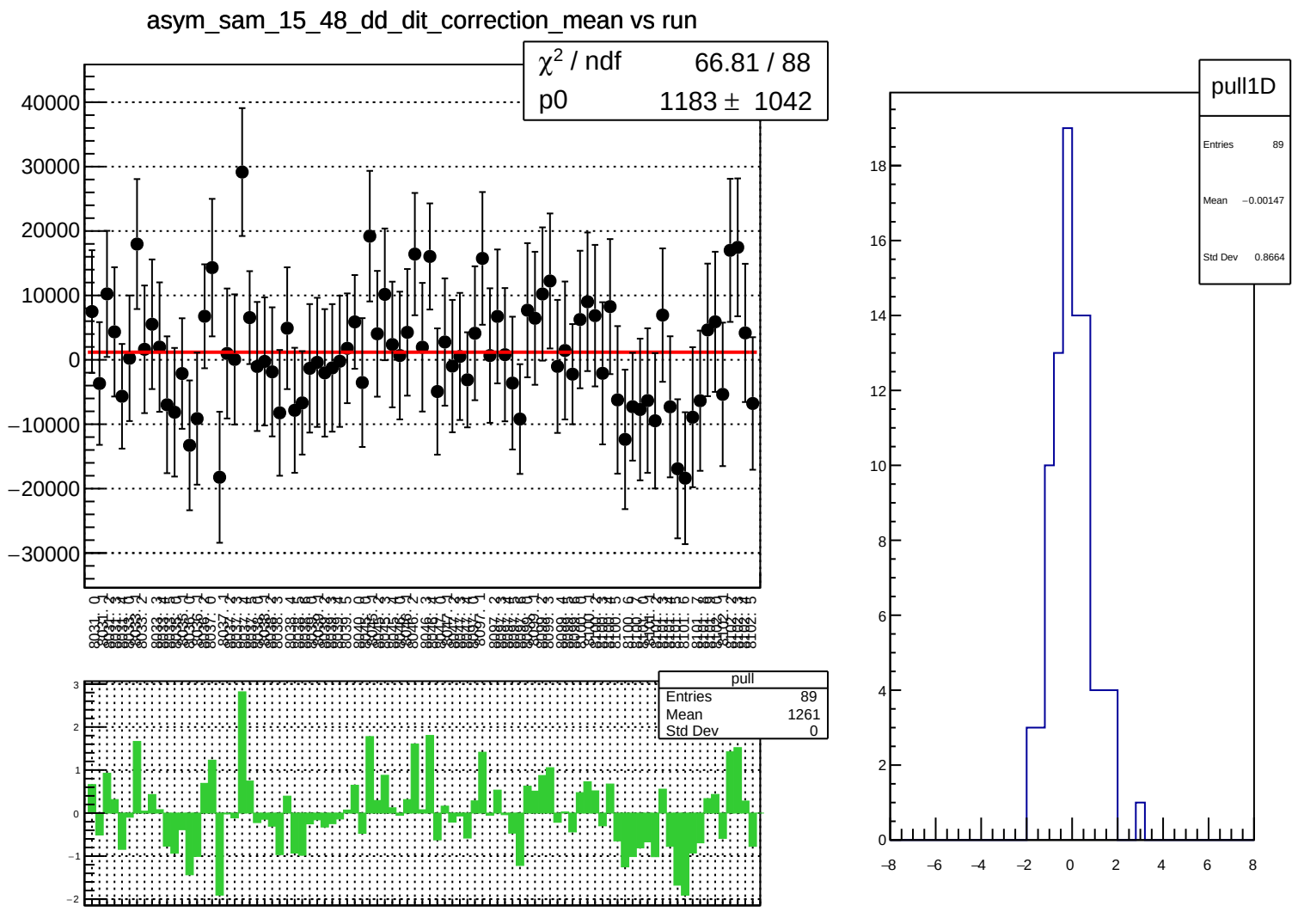

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 67.48 / 88
p0 1158 ± 1029
pull
Entries 89
Mean 542.5
Std Dev 0
pull1D
Entries 89
Mean −0.003719
Std Dev 0.8707

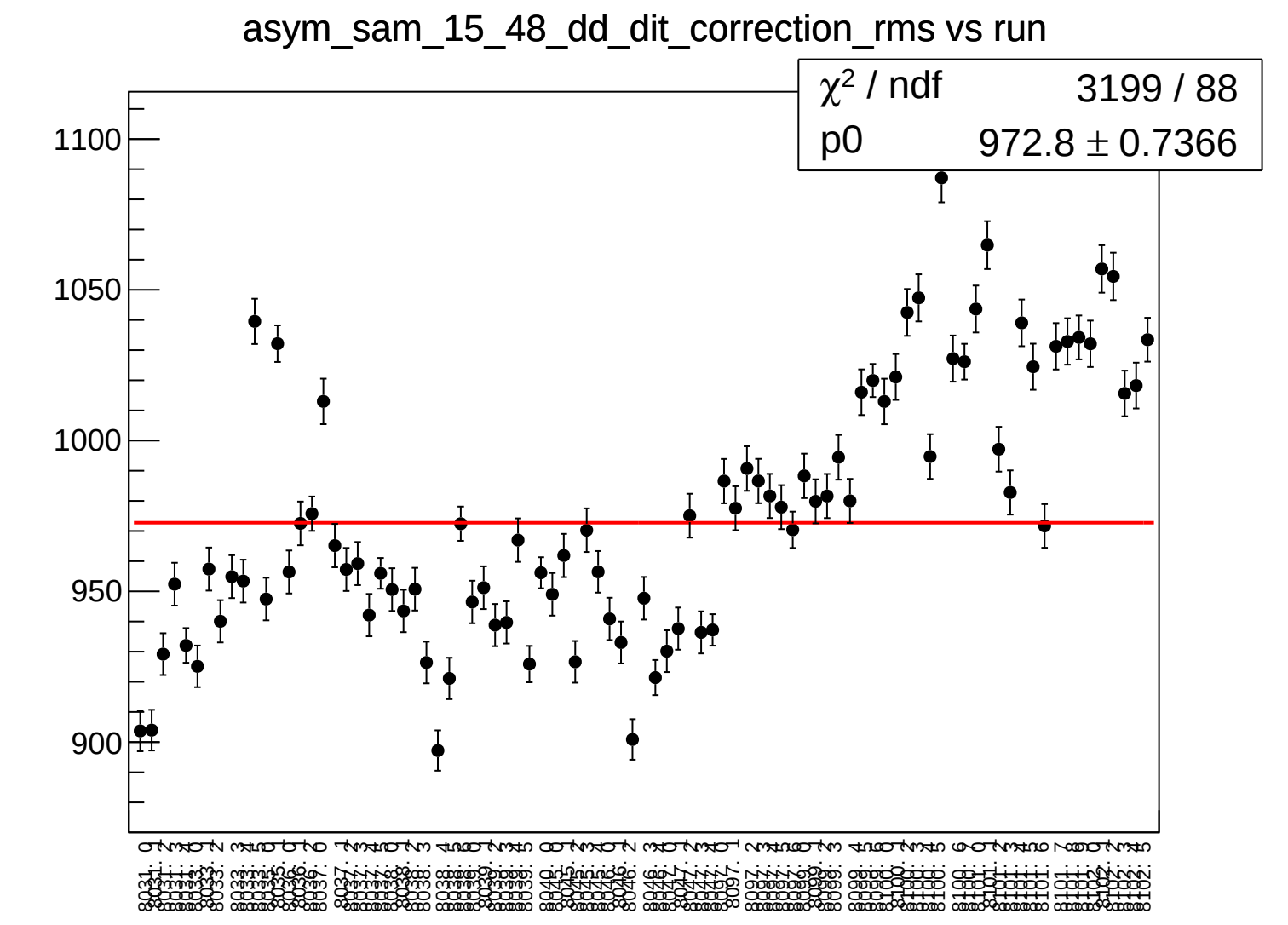

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 5293 / 88
p0 960.1 ± 0.7274
1100
1050
1000
950
900
850
800

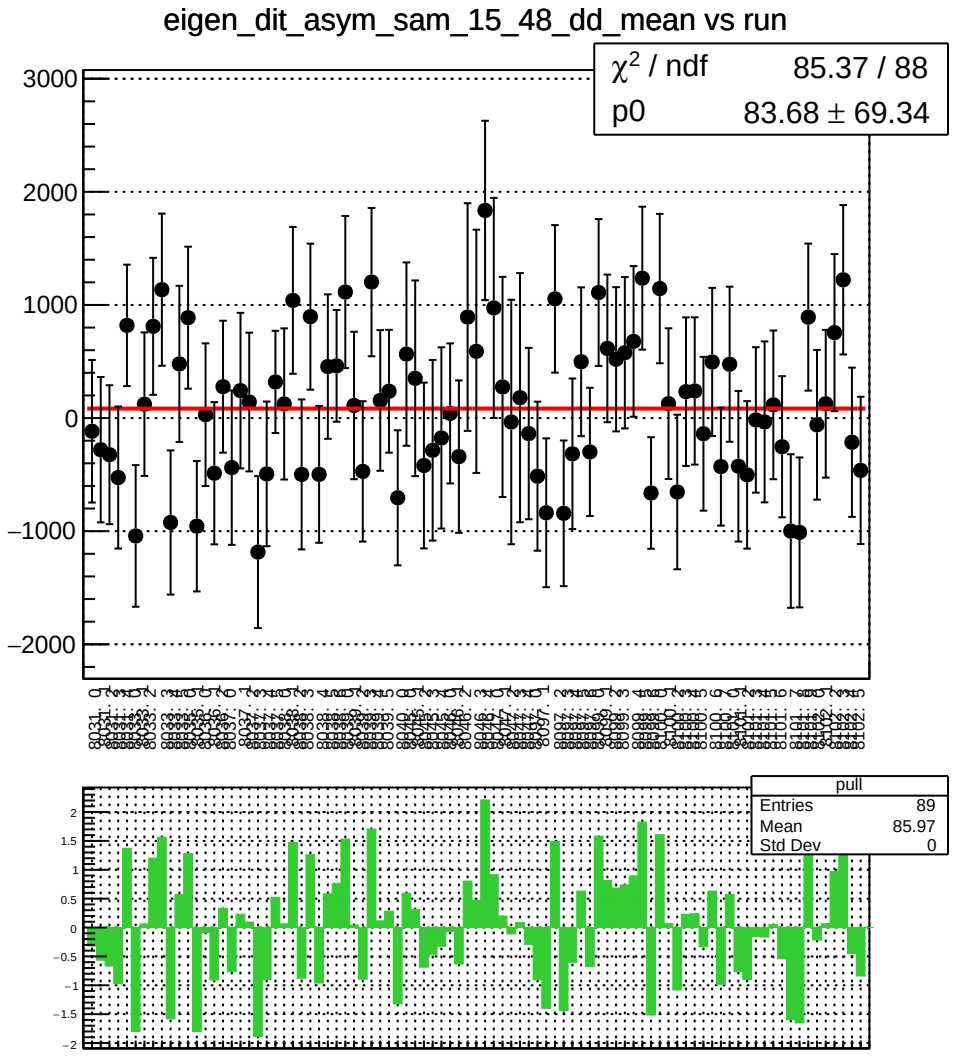

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 85.37 / 88
p0 83.68 ± 69.34
3000
2000
1000
0
−1000
−2000
pull
Entries 89
Mean 85.97
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

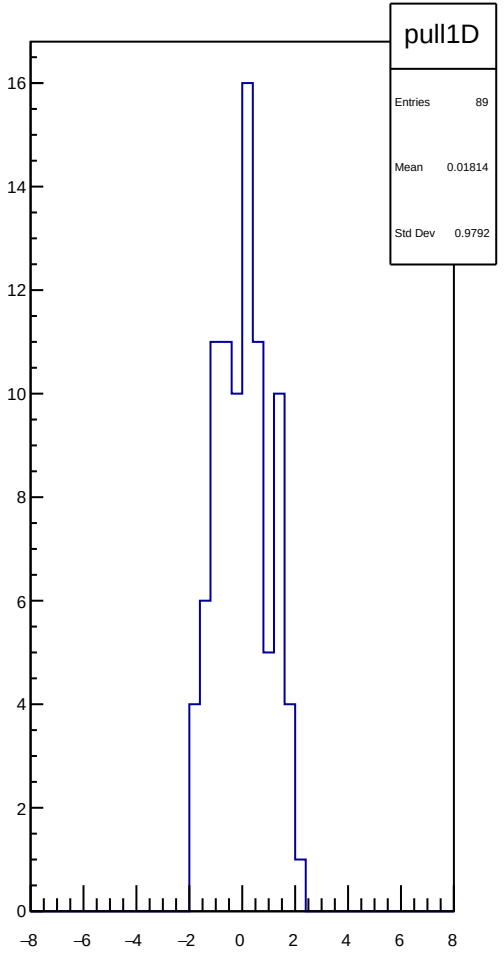

pull1D
Entries 89
Mean 0.01814
Std Dev 0.9792
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

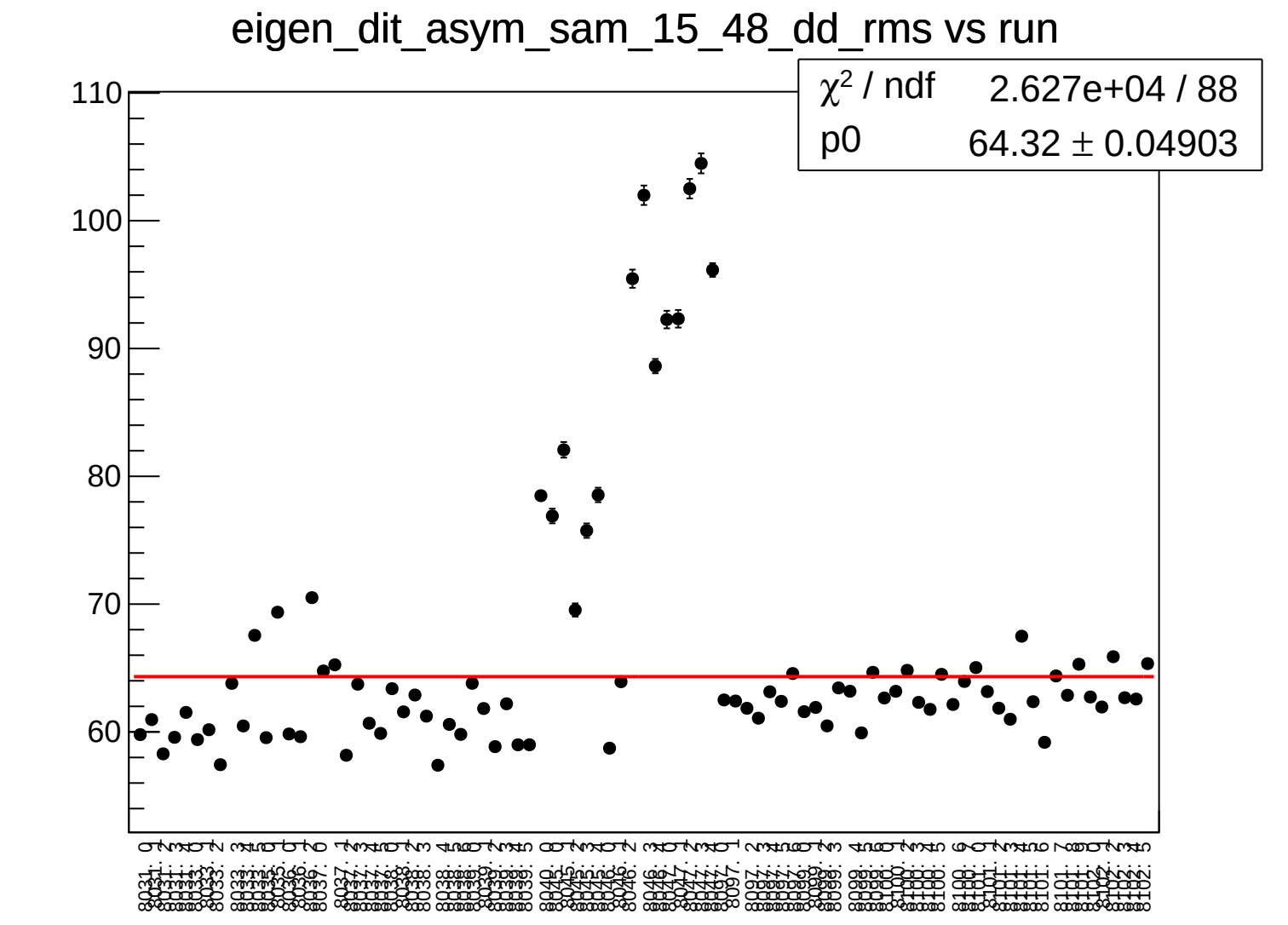

dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 2.627e+04 / 88
p0 64.32 ± 0.04903
110
100
90
80
70
60

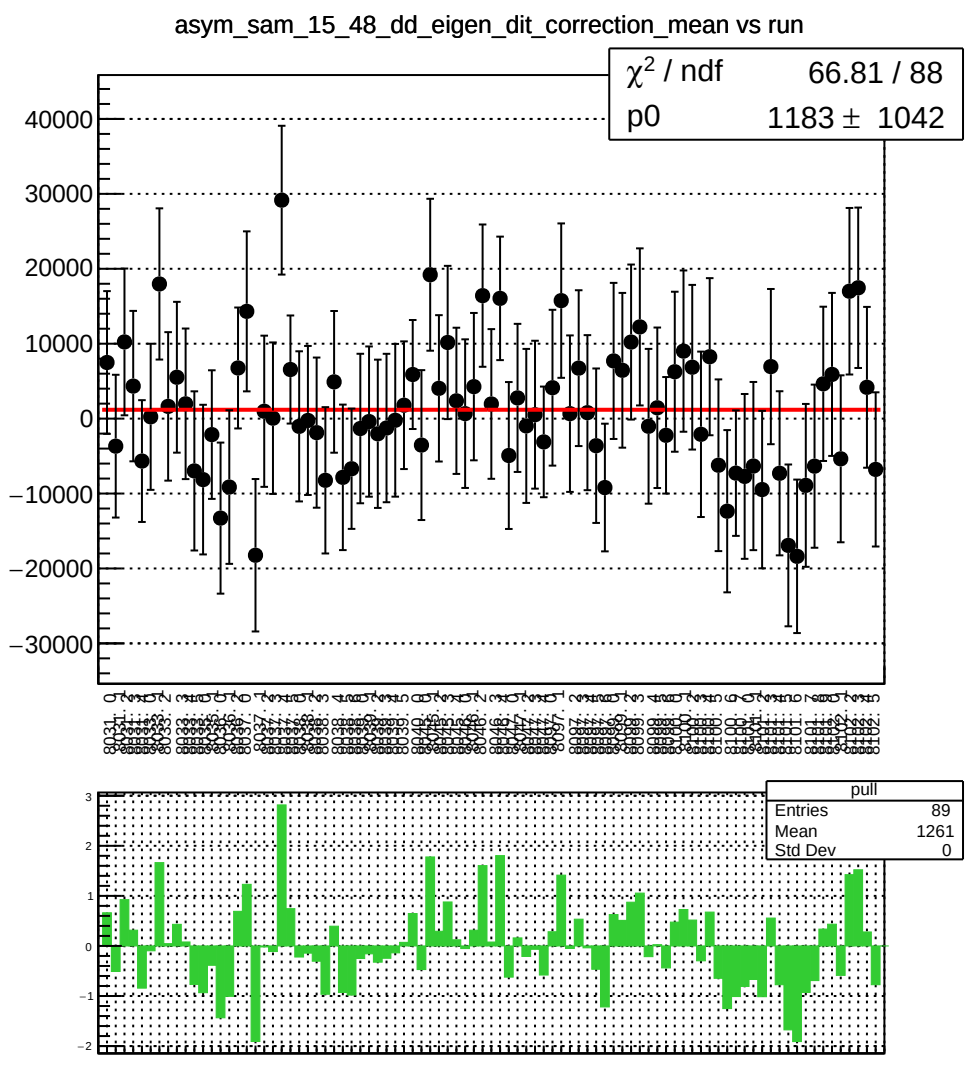

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 66.81 / 88
p0 1183 ± 1042
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 1261
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.00147
Std Dev 0.8664
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

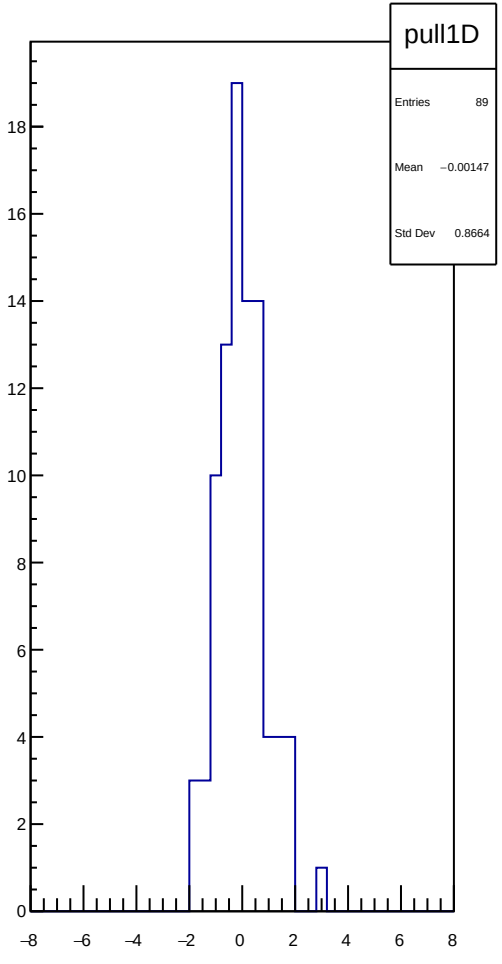

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 3199 / 88
p0 972.8 ± 0.7366
1100
1050
1000
950
900

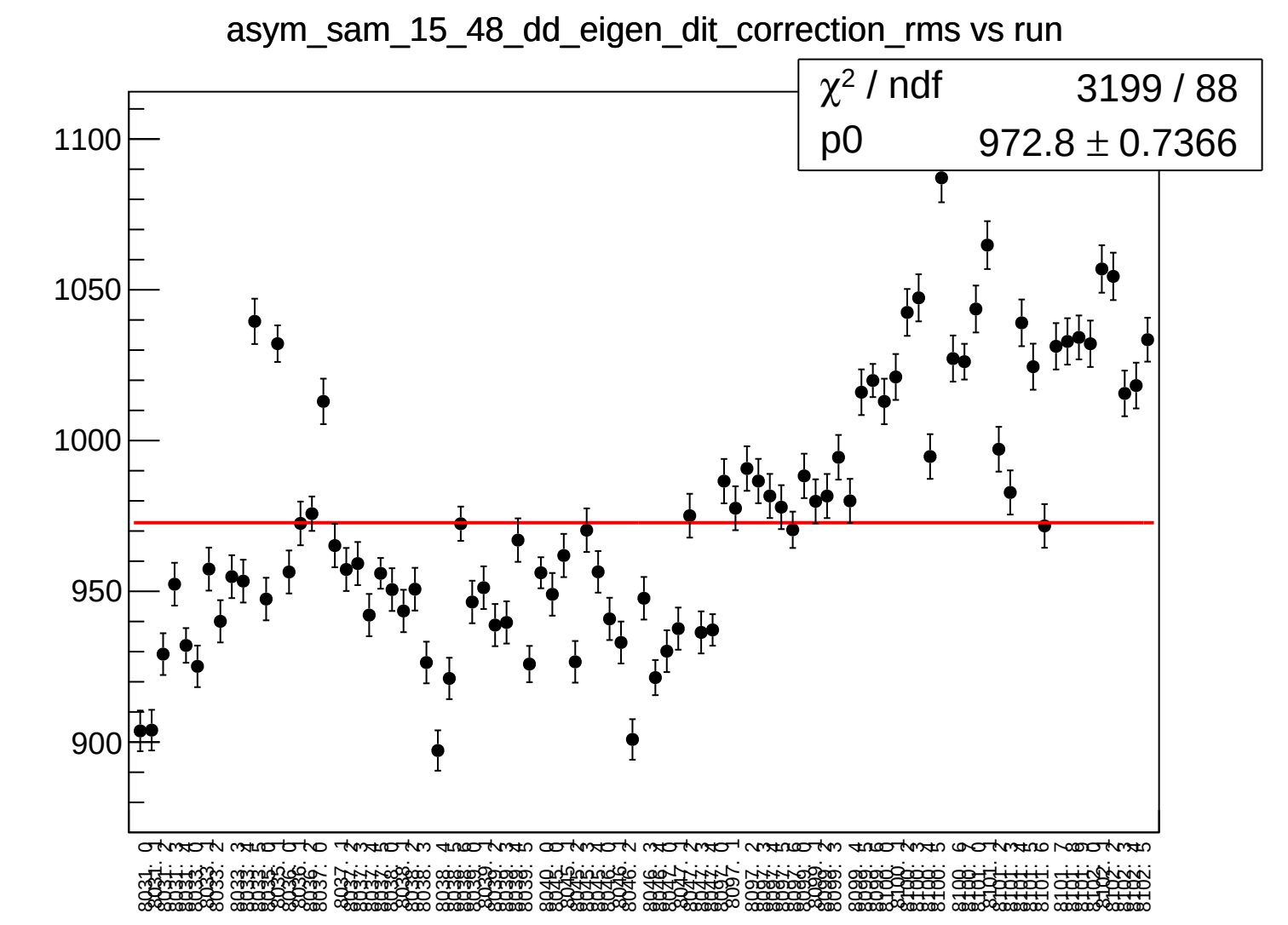

eigen_dit_asym_sam_15_48_dd_mean vs run
$\chi^2$ / ndf 85.37 / 88
p0 83.68 ± 69.34
pull
Entries 89
Mean 85.97
Std Dev 0

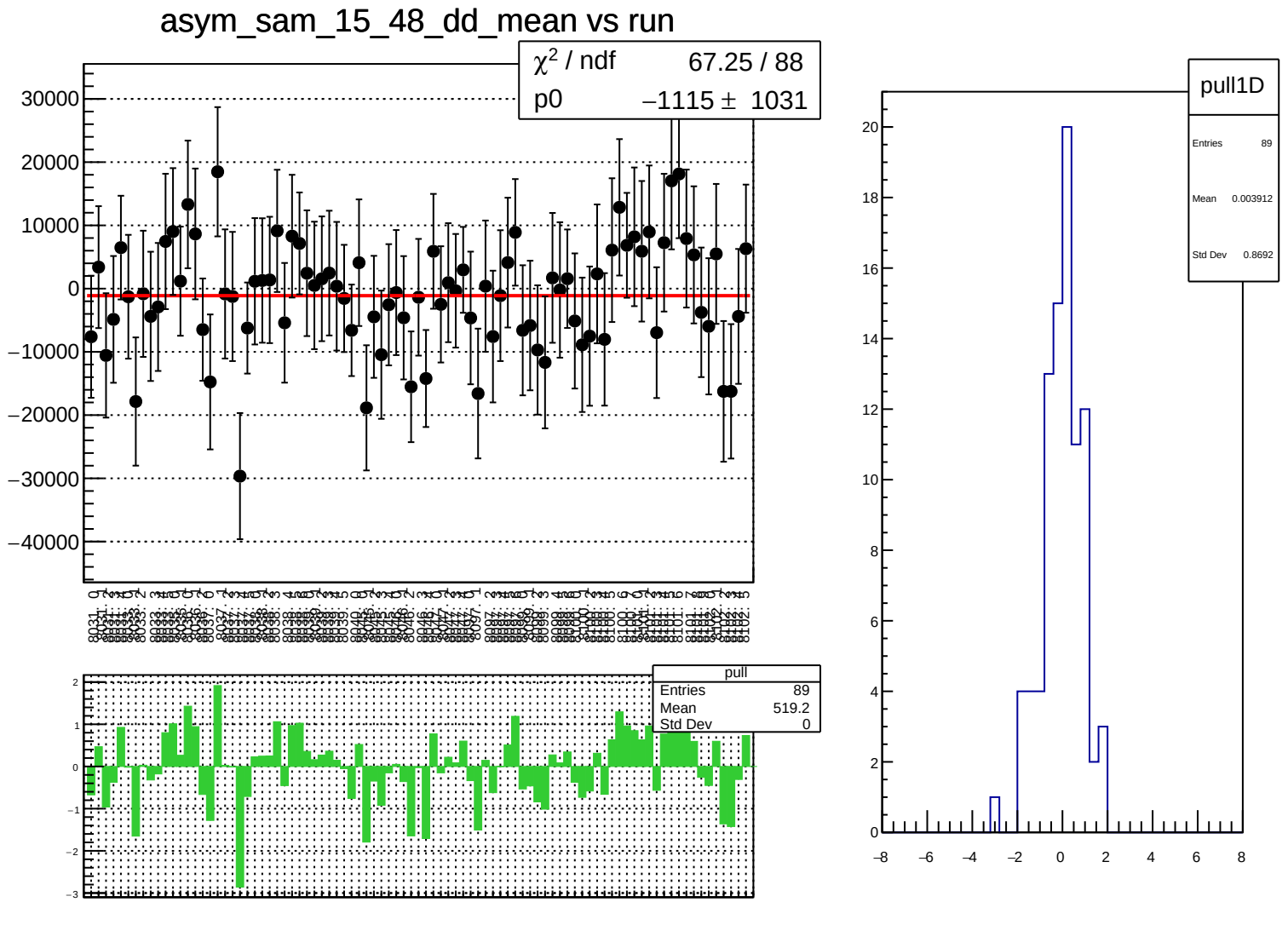

pull1D
Entries 89
Mean 0.01814
Std Dev 0.9792

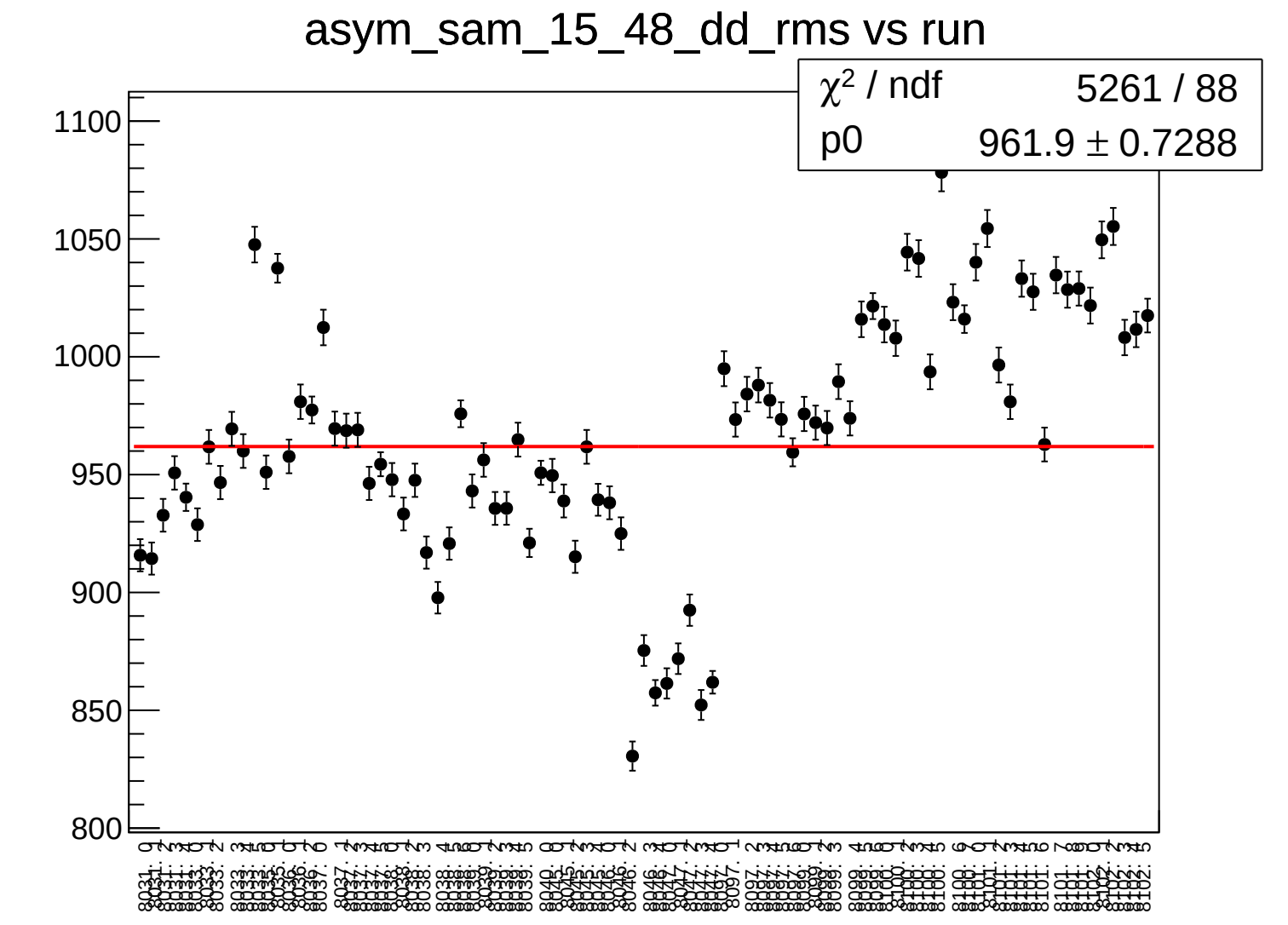

eigen_dit_asym_sam_15_48_dd_rms vs run
$\chi^2$ / ndf 2.627e+04 / 88
p0 64.32 ± 0.04903
110
100
90
80
70
60

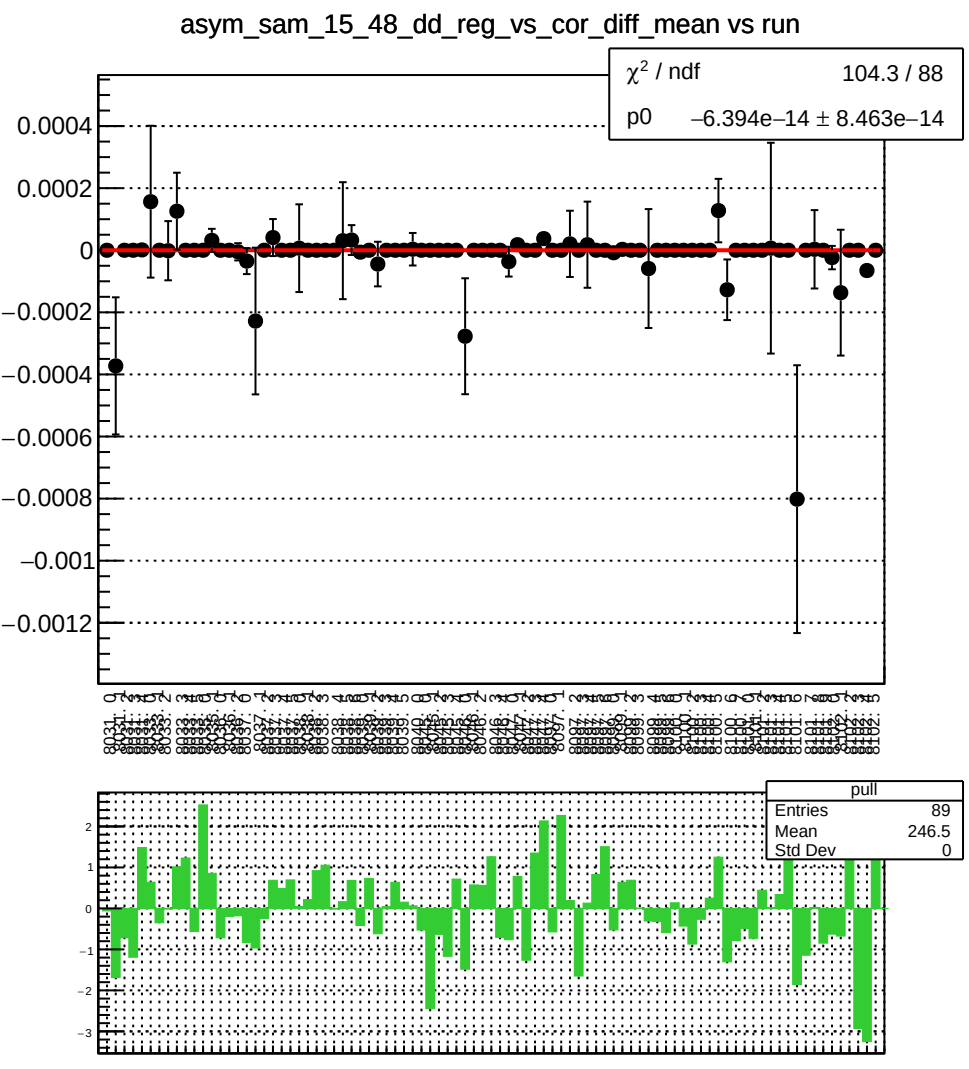

asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 66.81 / 88
p0 1183 ± 1042
pull
Entries 89
Mean 1261
Std Dev 0

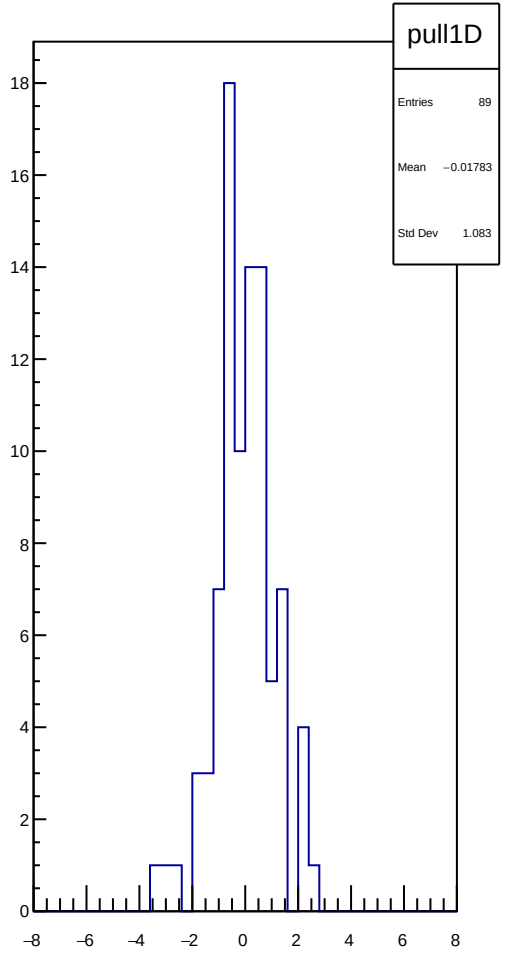

pull1D
Entries 89
Mean −0.00147
Std Dev 0.8664

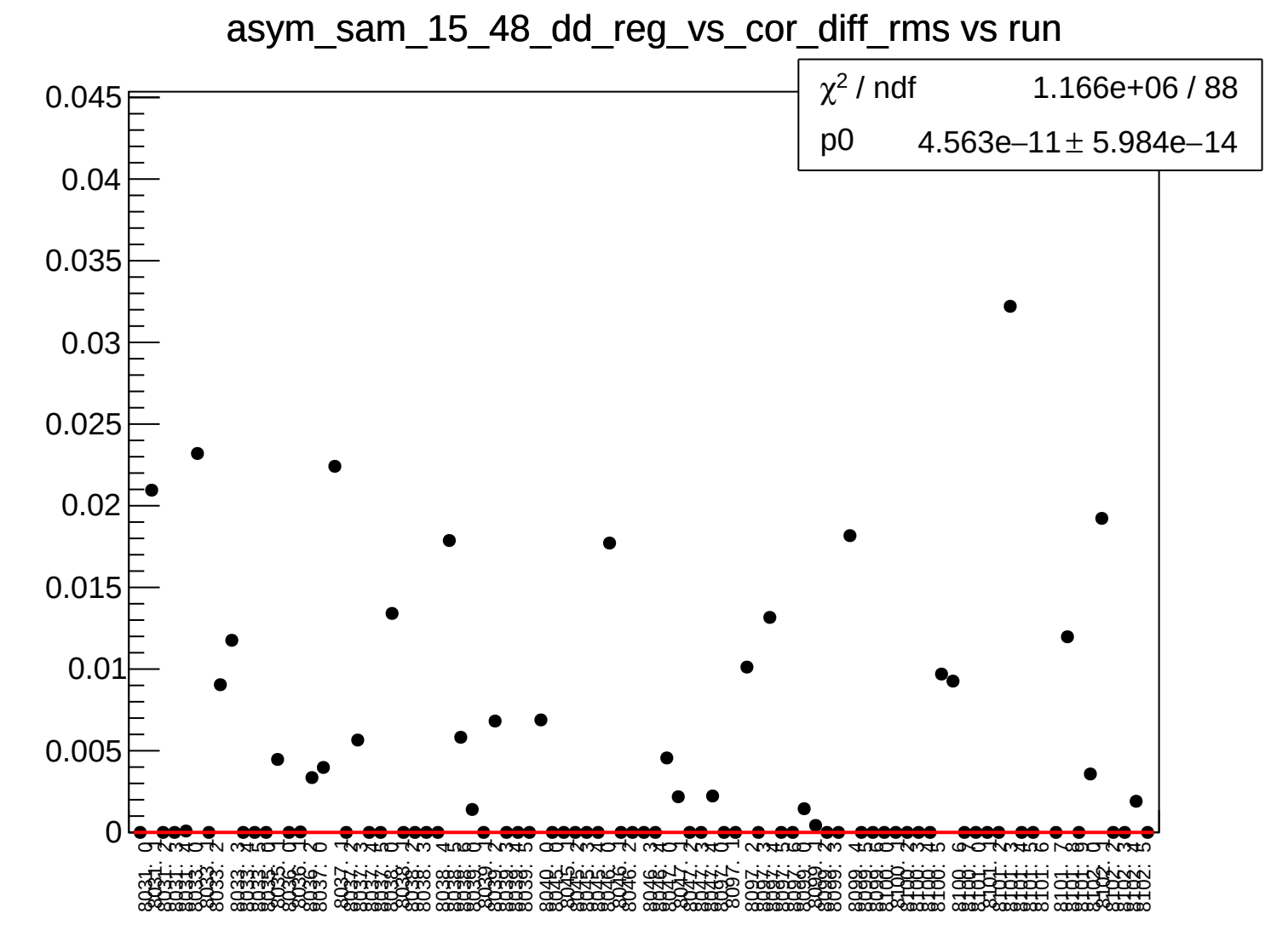

asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 3199 / 88
p0 972.8 ± 0.7366
1100
1050
1000
950
900

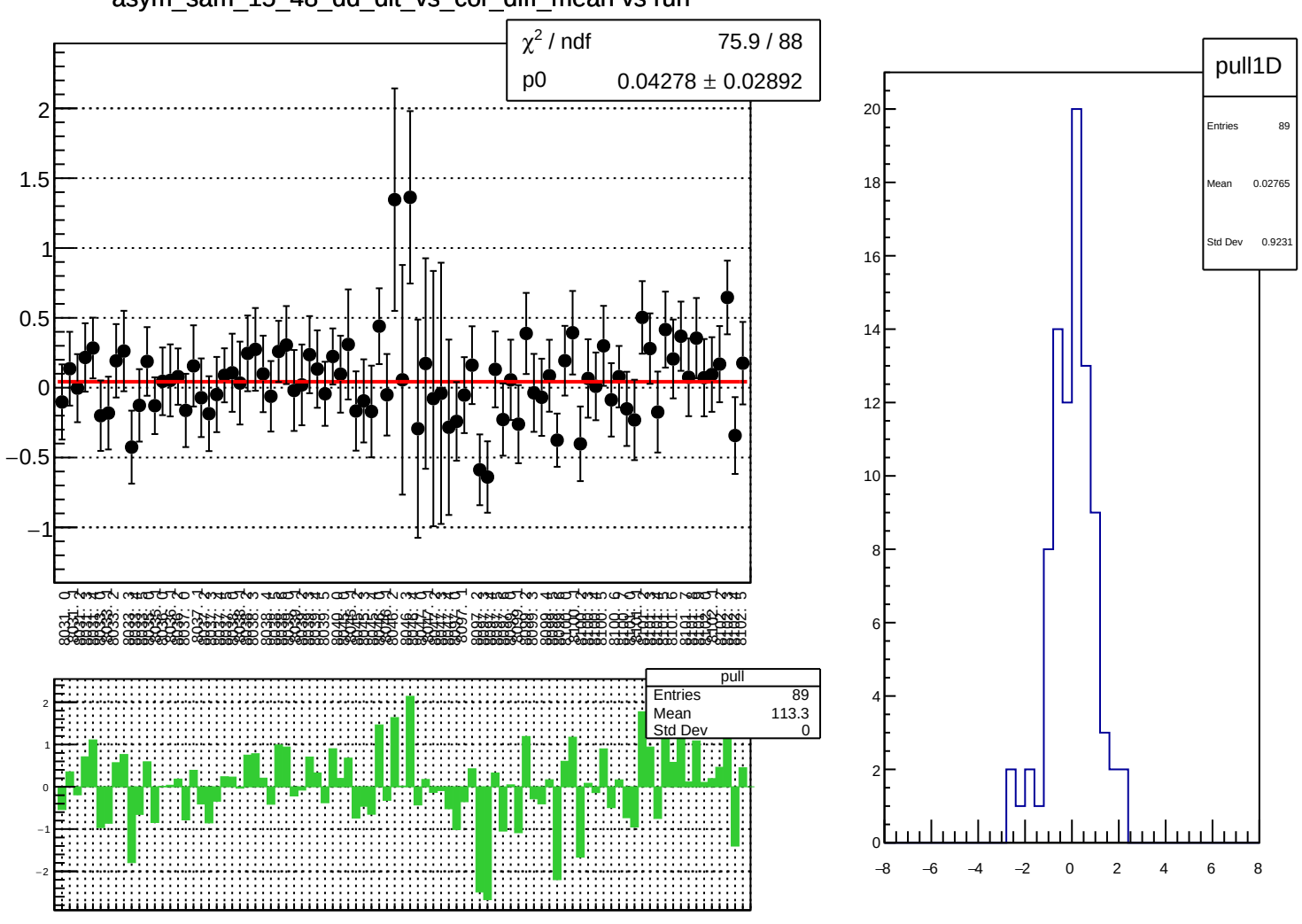

asym_sam_15_48_dd_mean vs run
χ² / ndf 67.25 / 88
p0 −1115 ± 1031
pull
Entries 89
Mean 519.2
Std Dev 0
pull1D
Entries 89
Mean 0.003912
Std Dev 0.8692

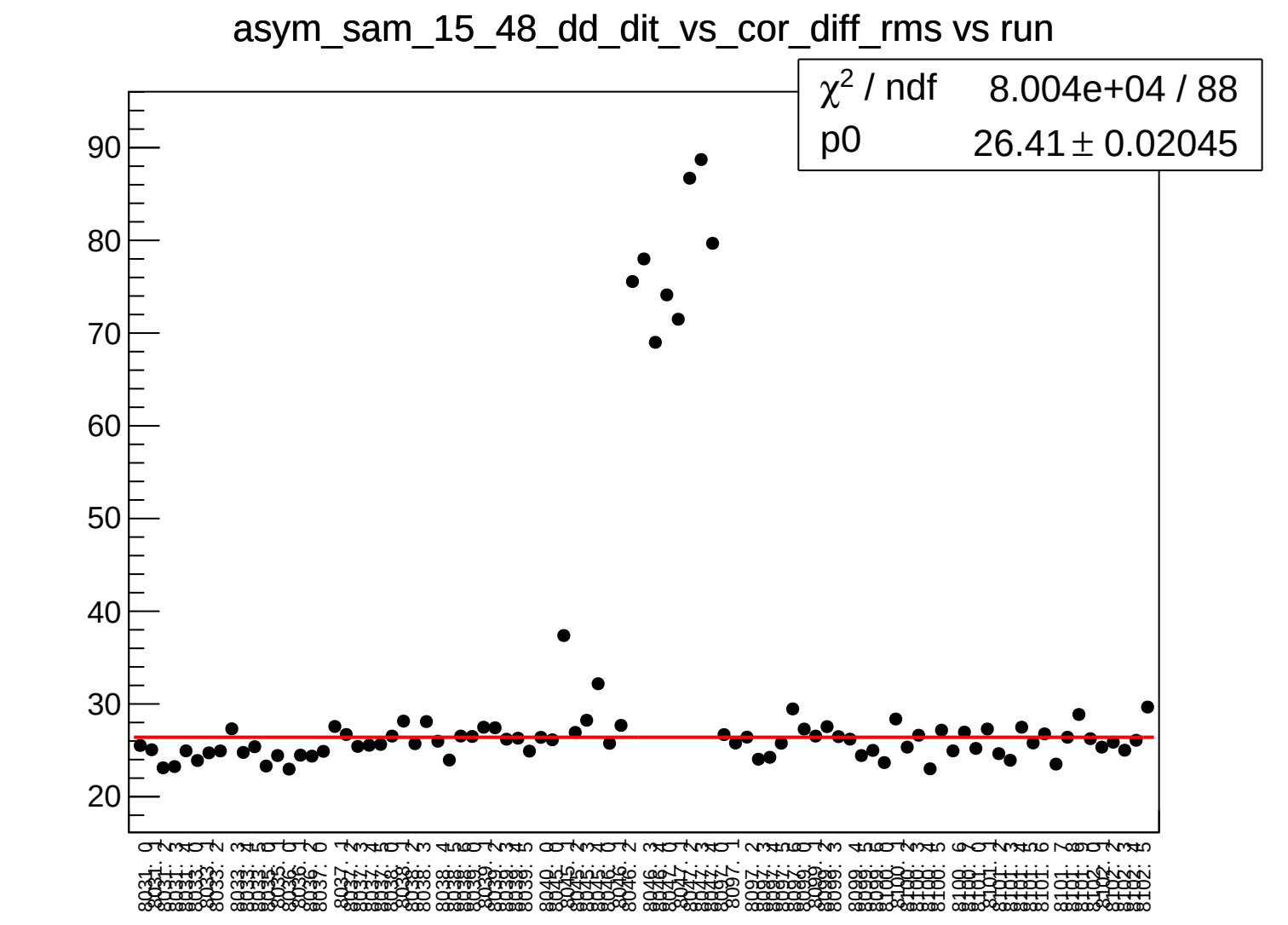

asym_sam_15_48_dd_rms vs run
χ² / ndf 5261 / 88
p0 961.9 ± 0.7288
1100
1050
1000
950
900
850
800

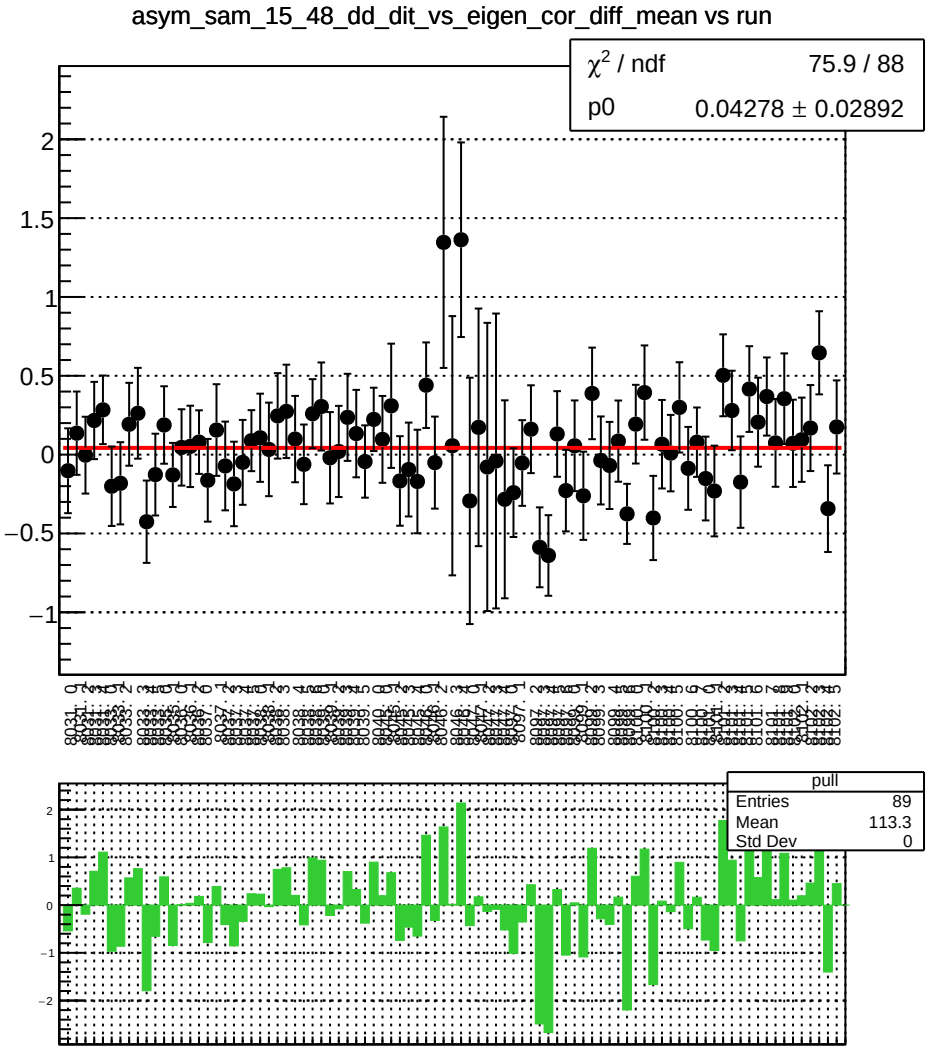

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 104.3 / 88
p0 −6.394e−14 ± 8.463e−14
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
pull
Entries 89
Mean 246.5
Std Dev 0
2
1
0
−1
−2
−3

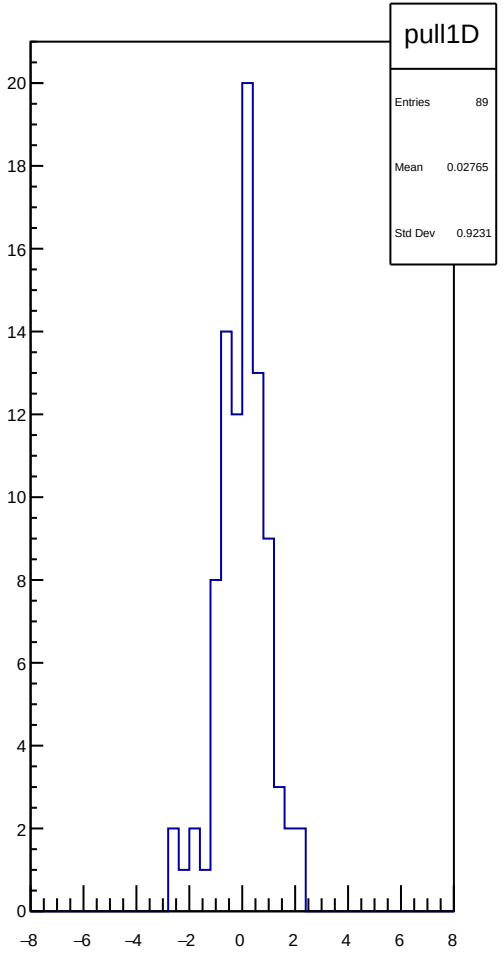

pull1D
Entries 89
Mean −0.01783
Std Dev 1.083
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

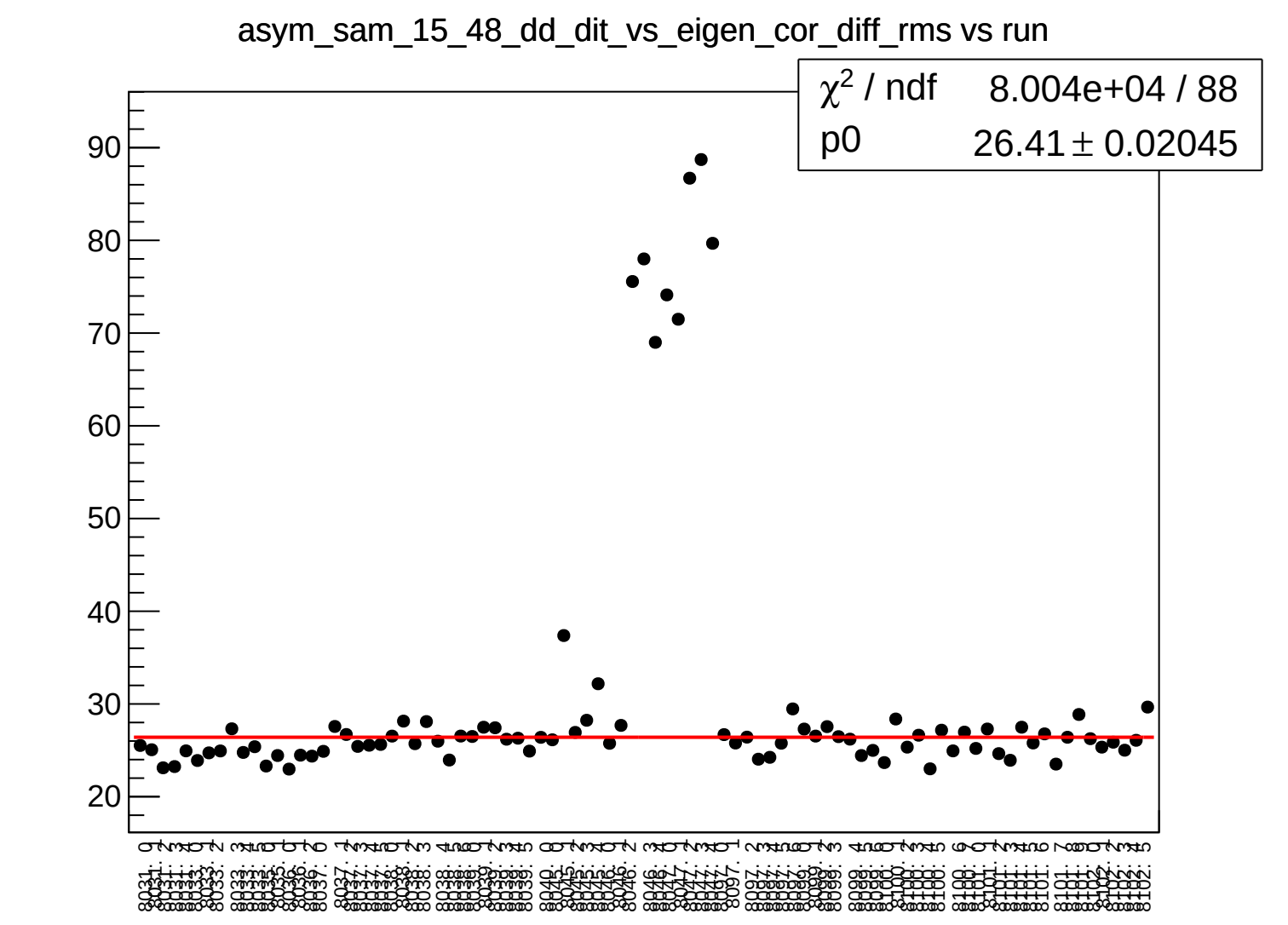

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.166e+06 / 88
p0 4.563e−11 ± 5.984e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

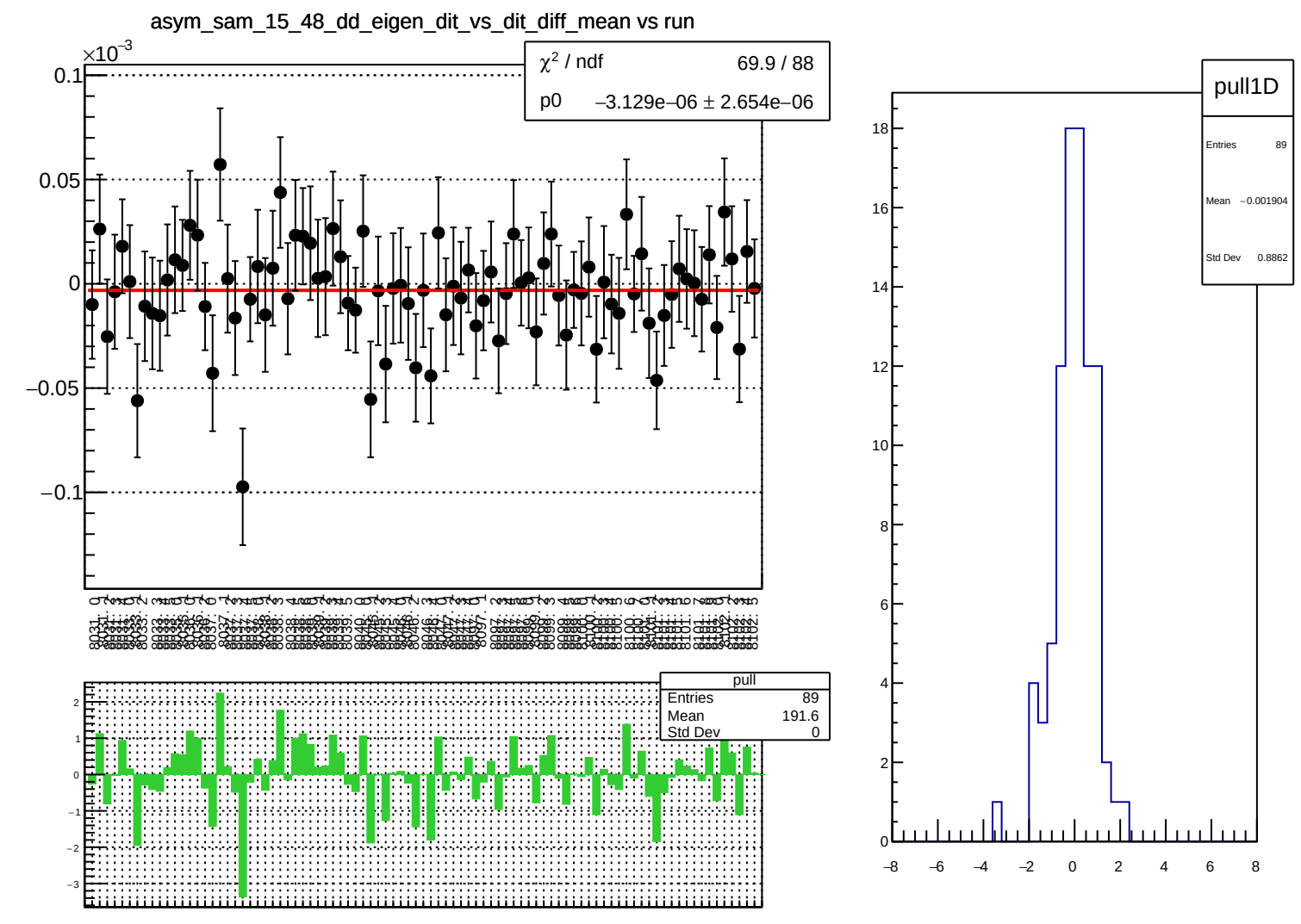

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 75.9 / 88
p0 0.04278 ± 0.02892
pull
Entries 89
Mean 113.3
Std Dev 0
pull1D
Entries 89
Mean 0.02765
Std Dev 0.9231

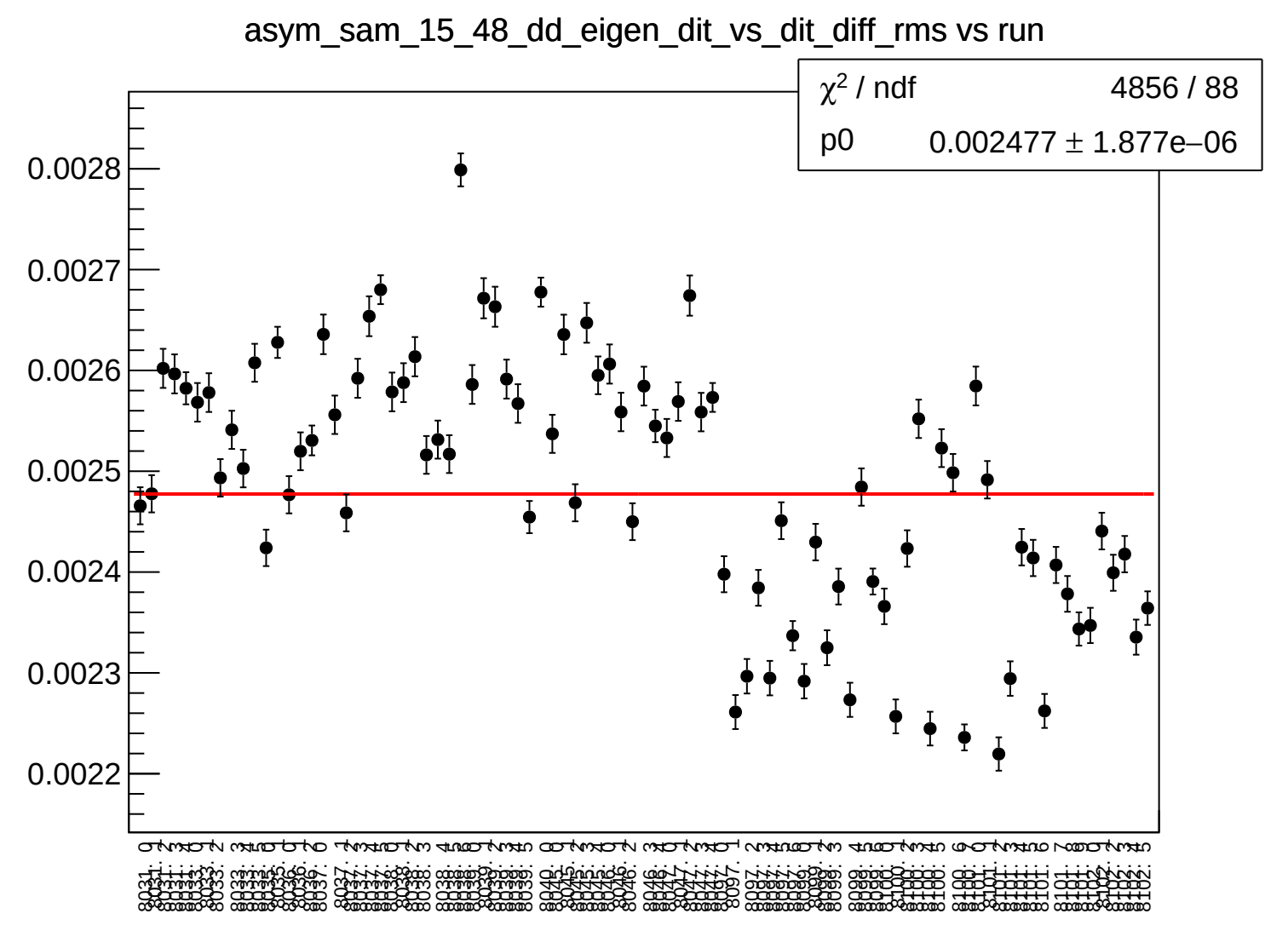

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 8.004e+04 / 88
p0 26.41 ± 0.02045
90
80
70
60
50
40
30
20

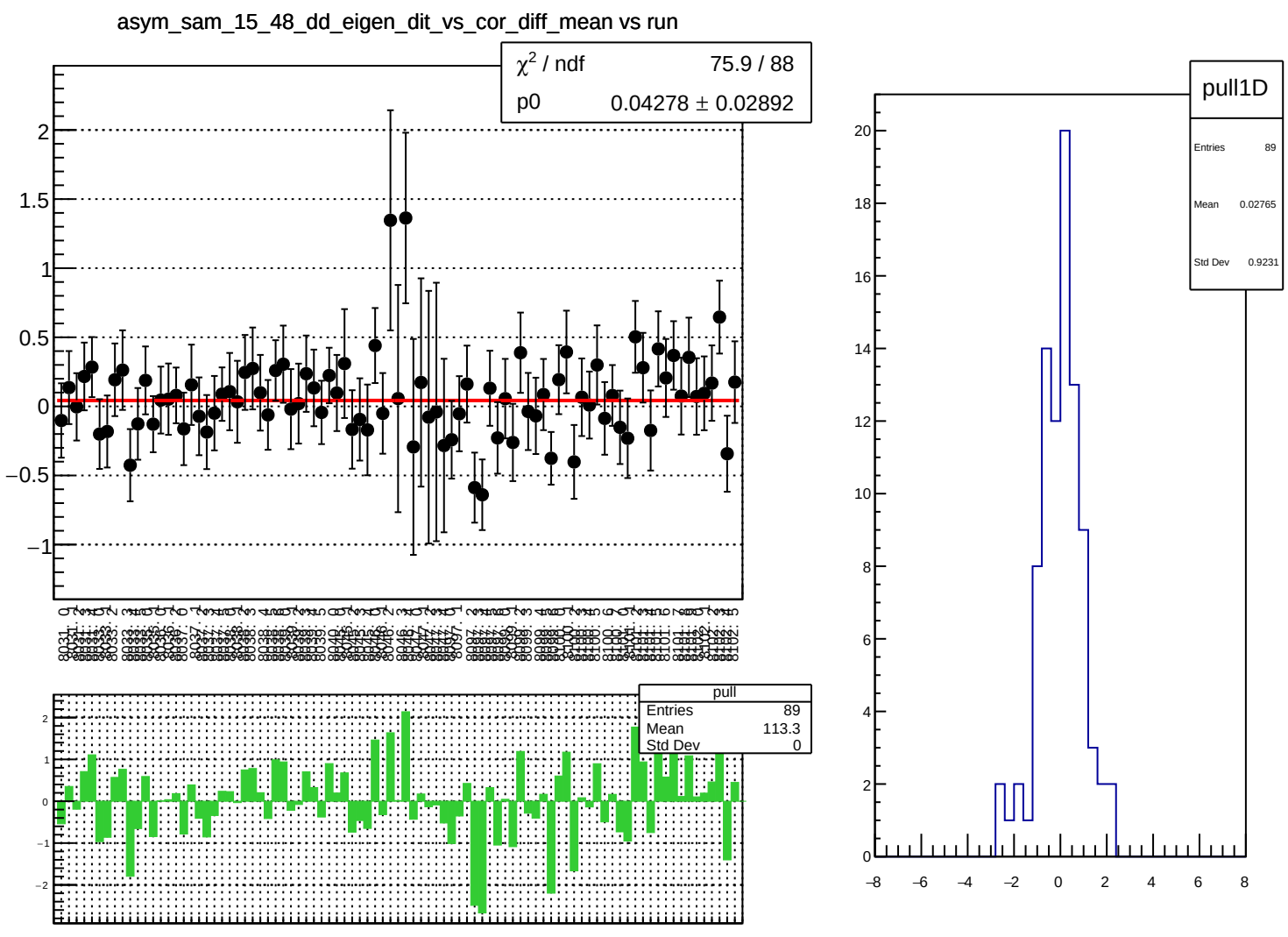

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.9 / 88
p0 0.04278 ± 0.02892
pull
Entries 89
Mean 113.3
Std Dev 0

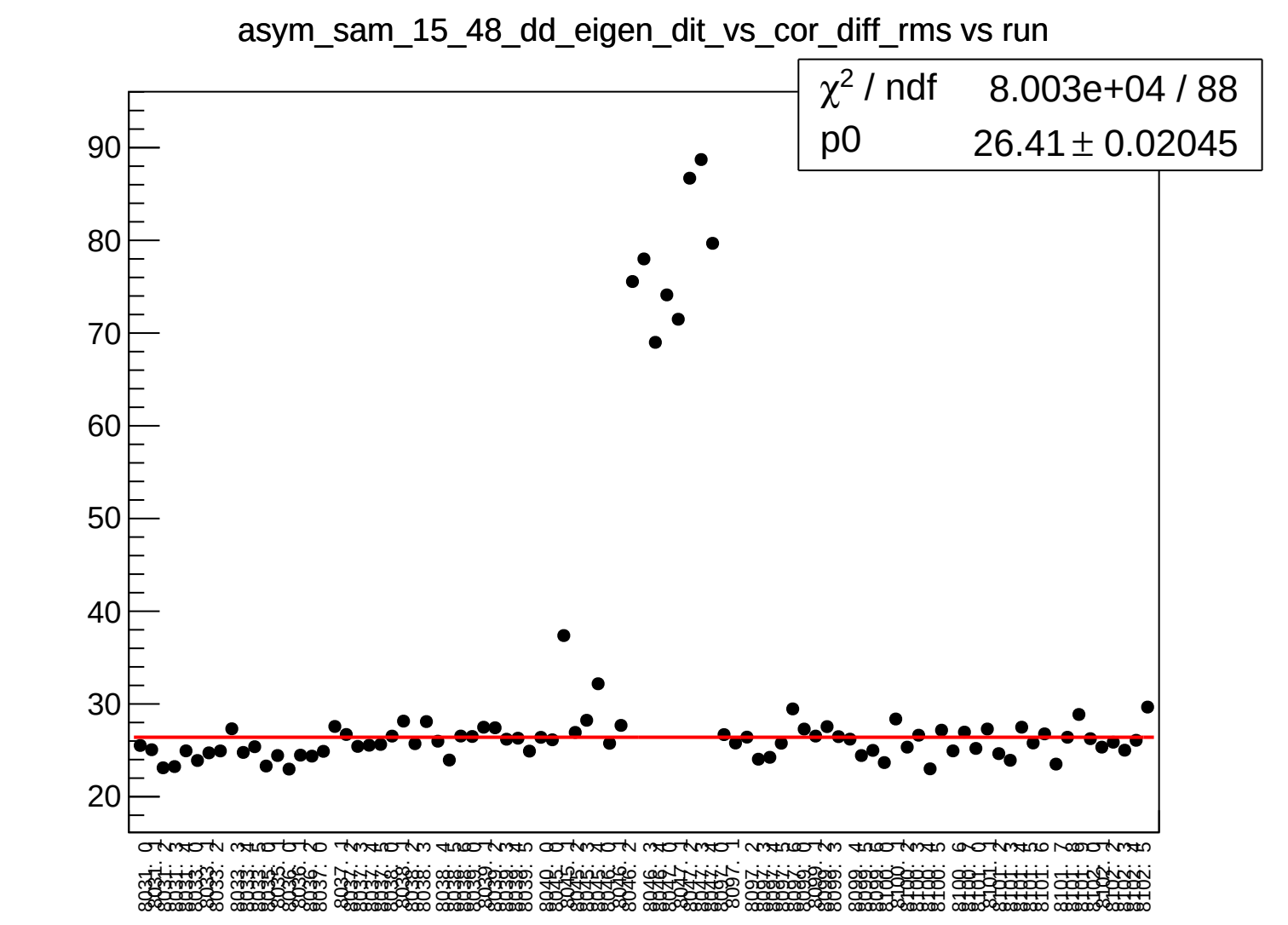

pull1D
Entries 89
Mean 0.02765
Std Dev 0.9231

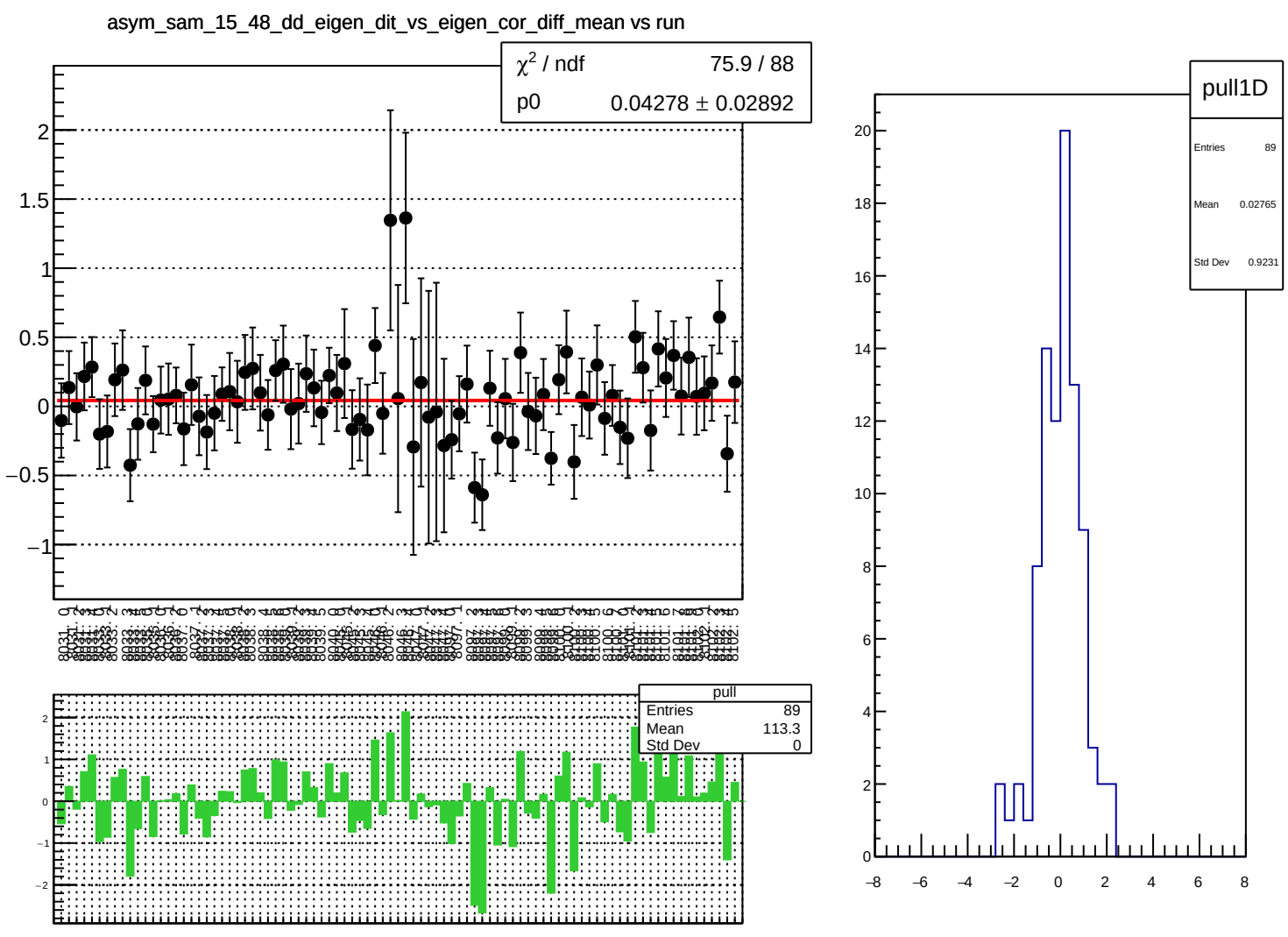

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 8.004e+04 / 88
p0 26.41 ± 0.02045
90
80
70
60
50
40
30
20

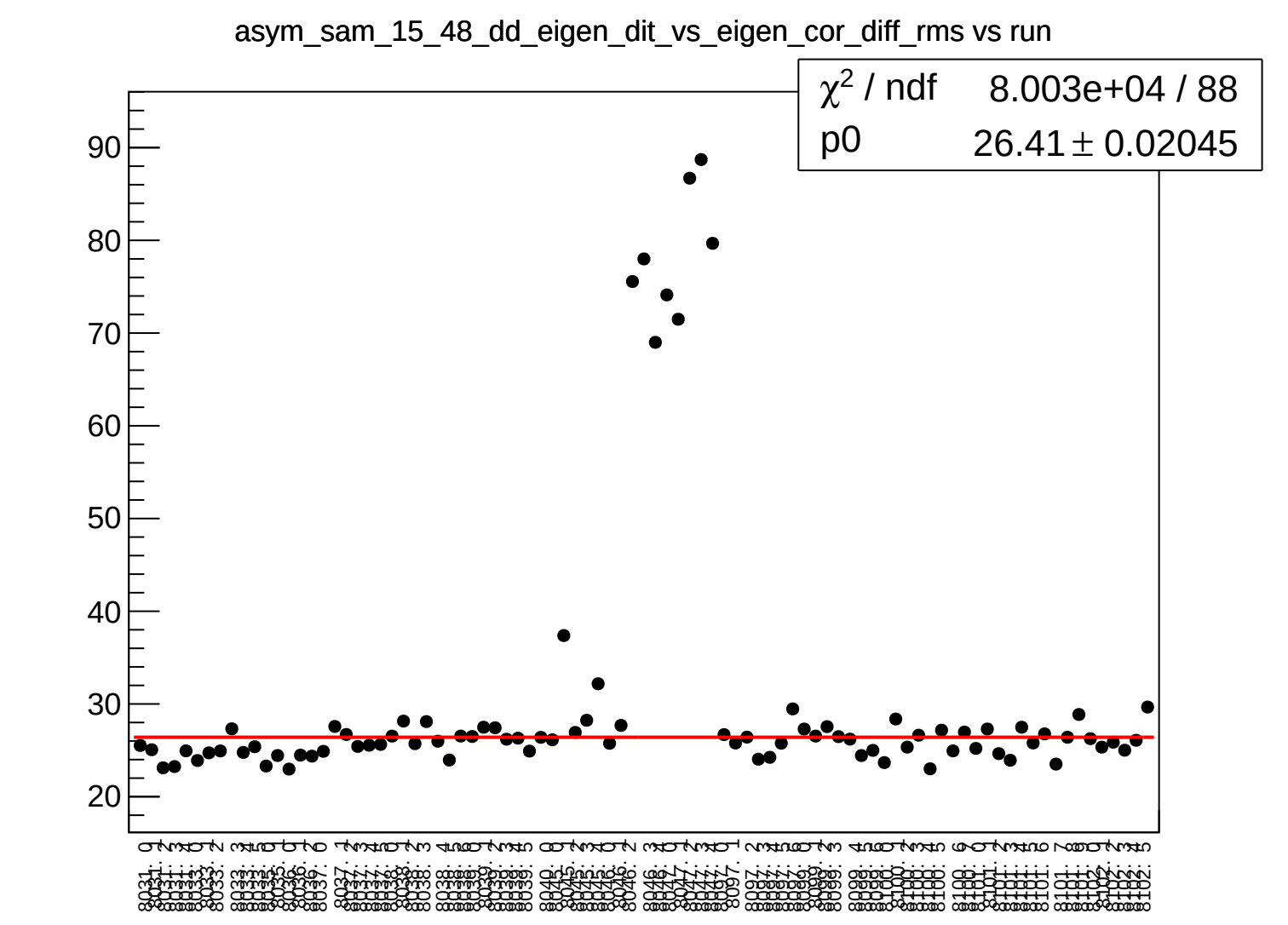

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 69.9 / 88
p0 −3.129e−06 ± 2.654e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 89
Mean 191.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.001904
Std Dev 0.8862
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

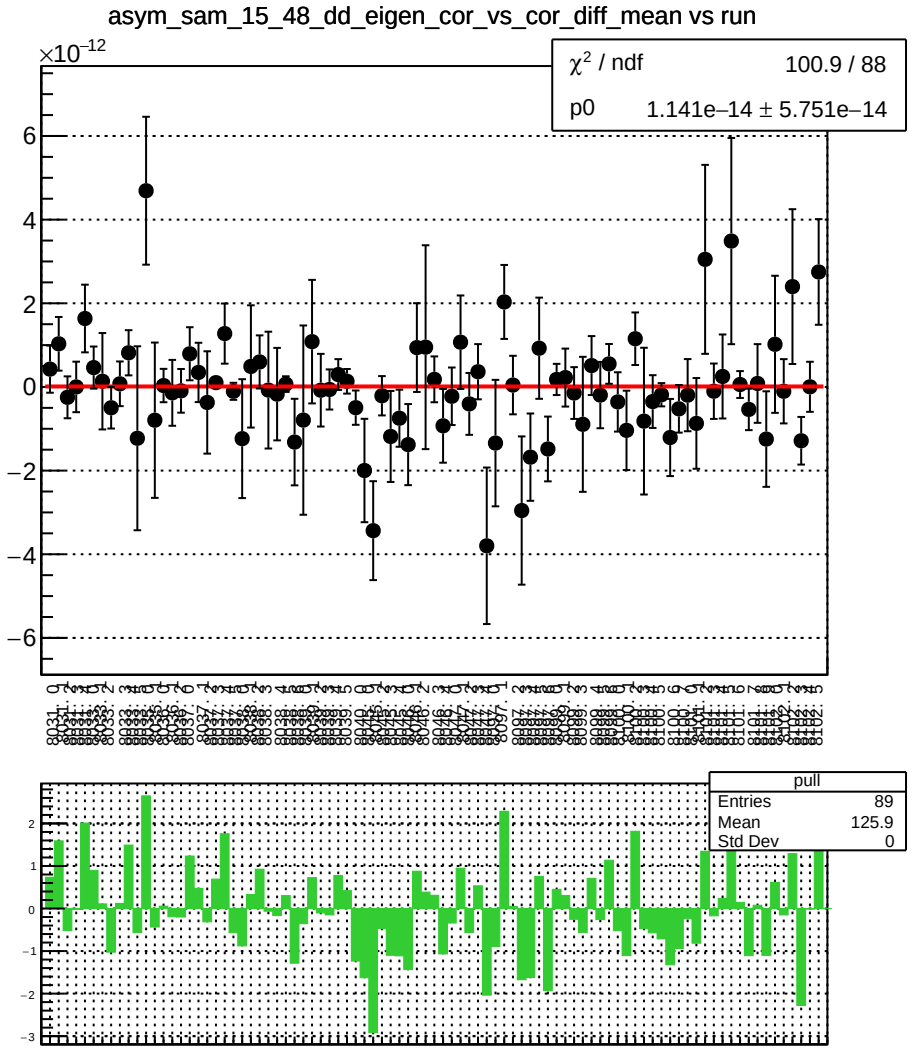

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4856 / 88
p0 0.002477 ± 1.877e−06
0.0028
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022

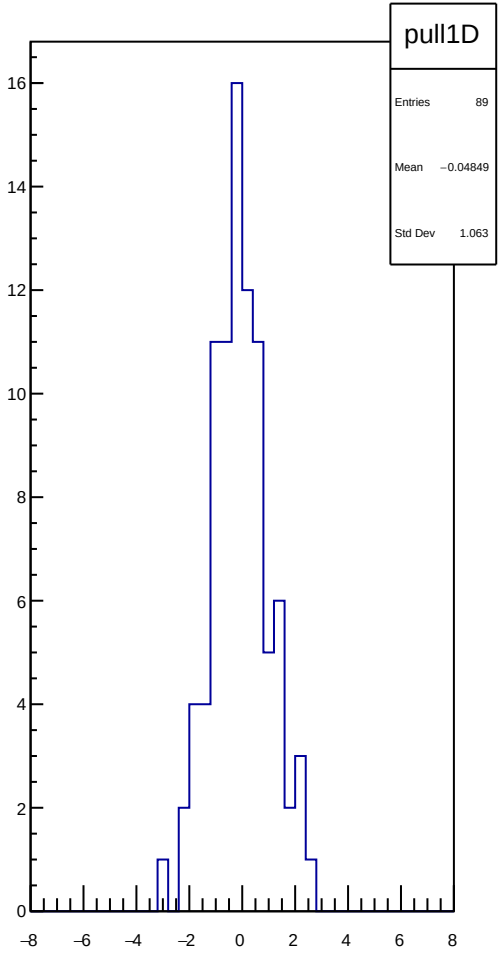

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.9 / 88
p0 0.04278 ± 0.02892
pull
Entries 89
Mean 113.3
Std Dev 0
pull1D
Entries 89
Mean 0.02765
Std Dev 0.9231

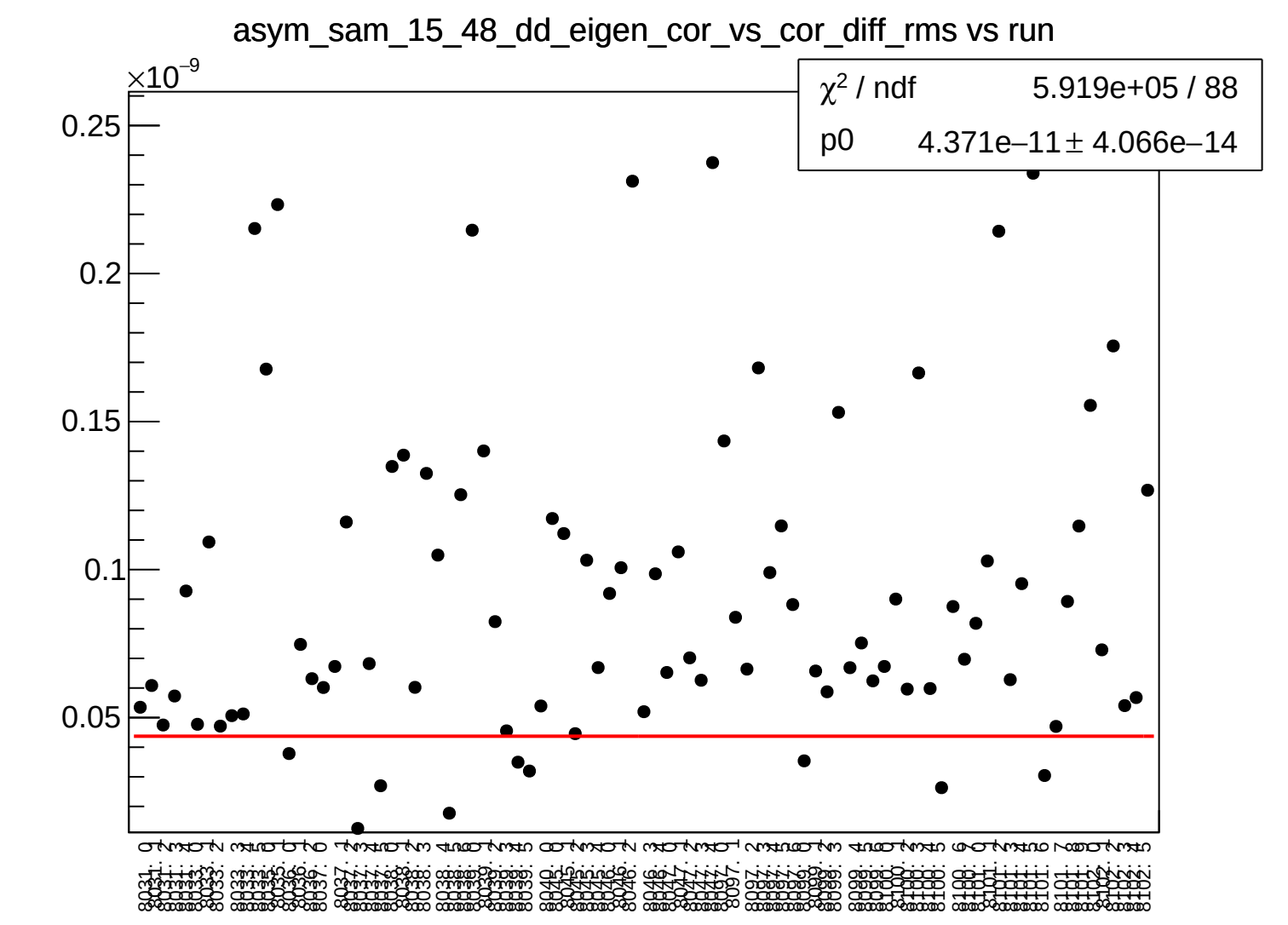

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 8.003e+04 / 88
p0 26.41 ± 0.02045
90
80
70
60
50
40
30
20

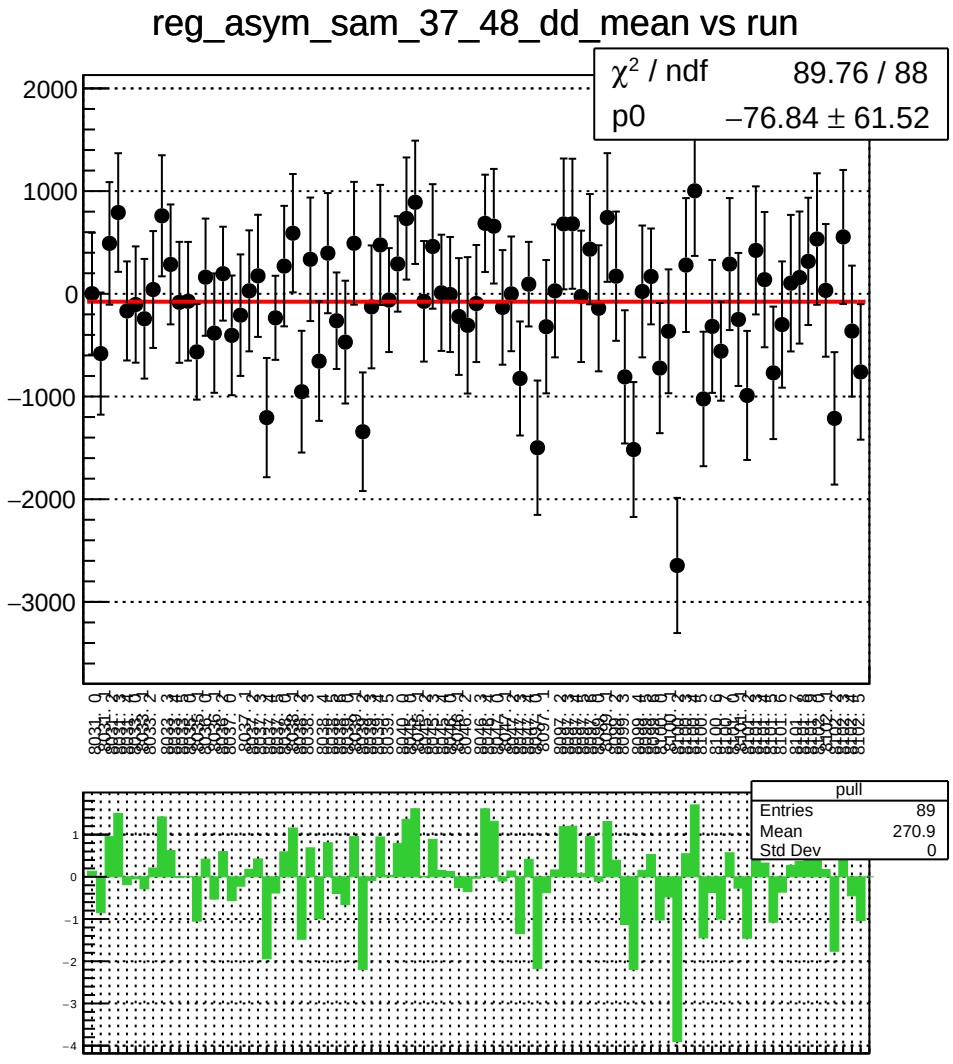

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.9 / 88
p0 0.04278 ± 0.02892
pull
Entries 89
Mean 113.3
Std Dev 0
pull1D
Entries 89
Mean 0.02765
Std Dev 0.9231

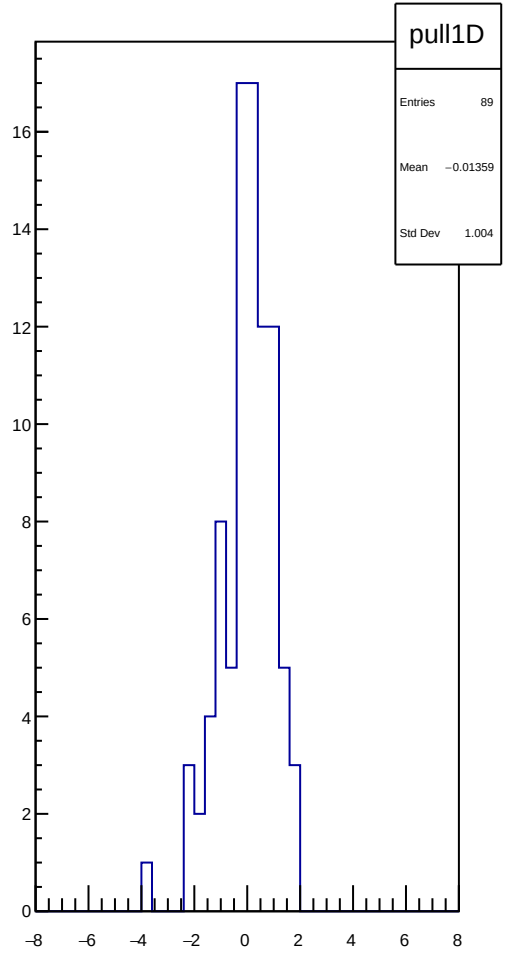

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.003e+04 / 88
p0 26.41 ± 0.02045
90
80
70
60
50
40
30
20

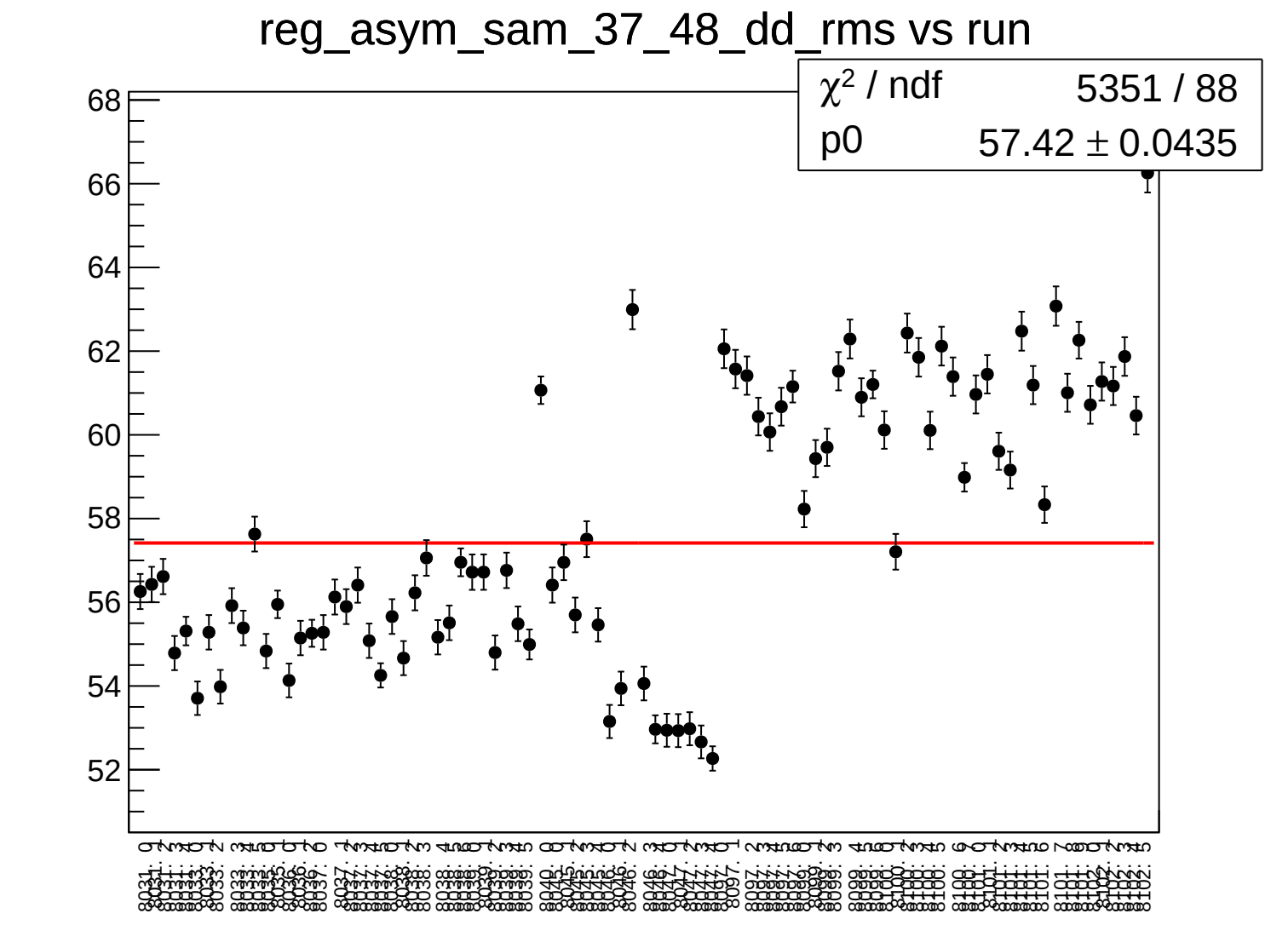

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 100.9 / 88
p0 1.141e−14 ± 5.751e−14
pull
Entries 89
Mean 125.9
Std Dev 0

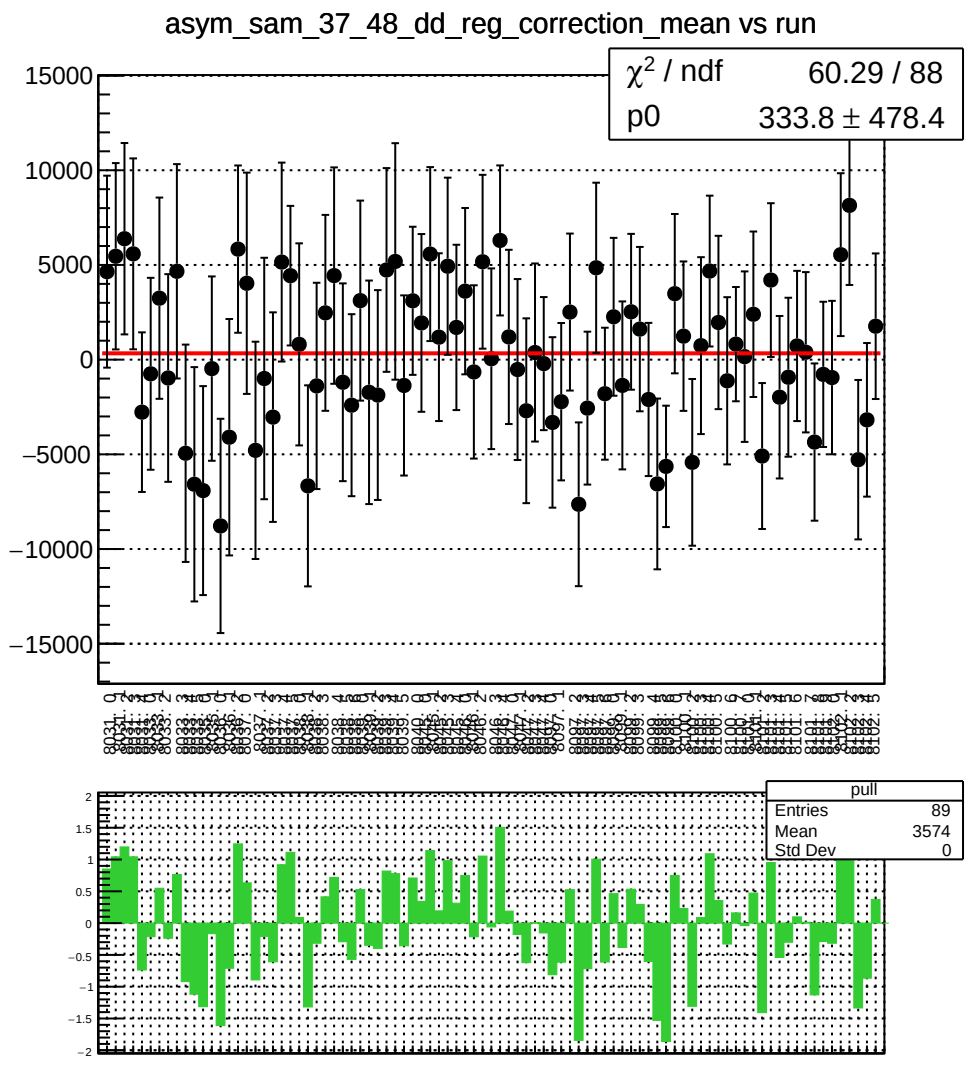

pull1D
Entries 89
Mean −0.04849
Std Dev 1.063

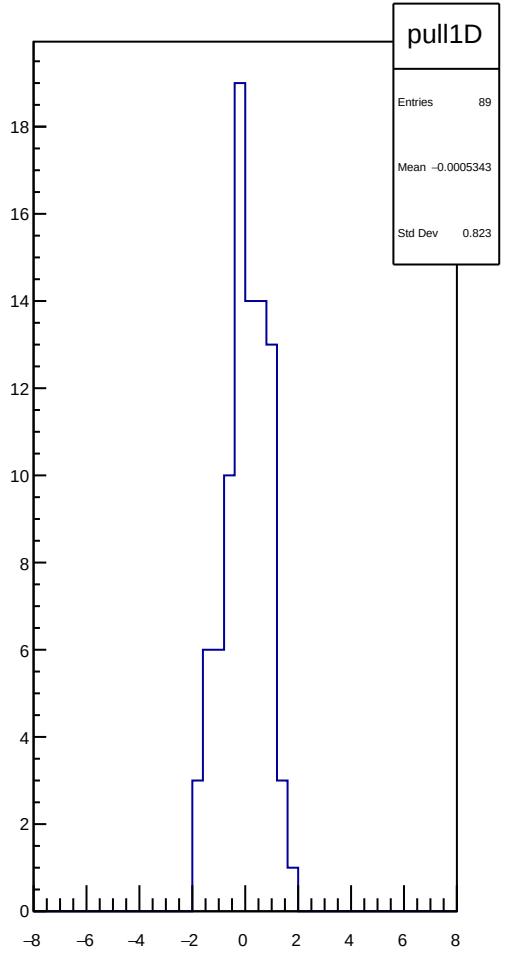

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.919e+05 / 88
p0 4.371e−11 ± 4.066e−14
0.25
0.2
0.15
0.1
0.05

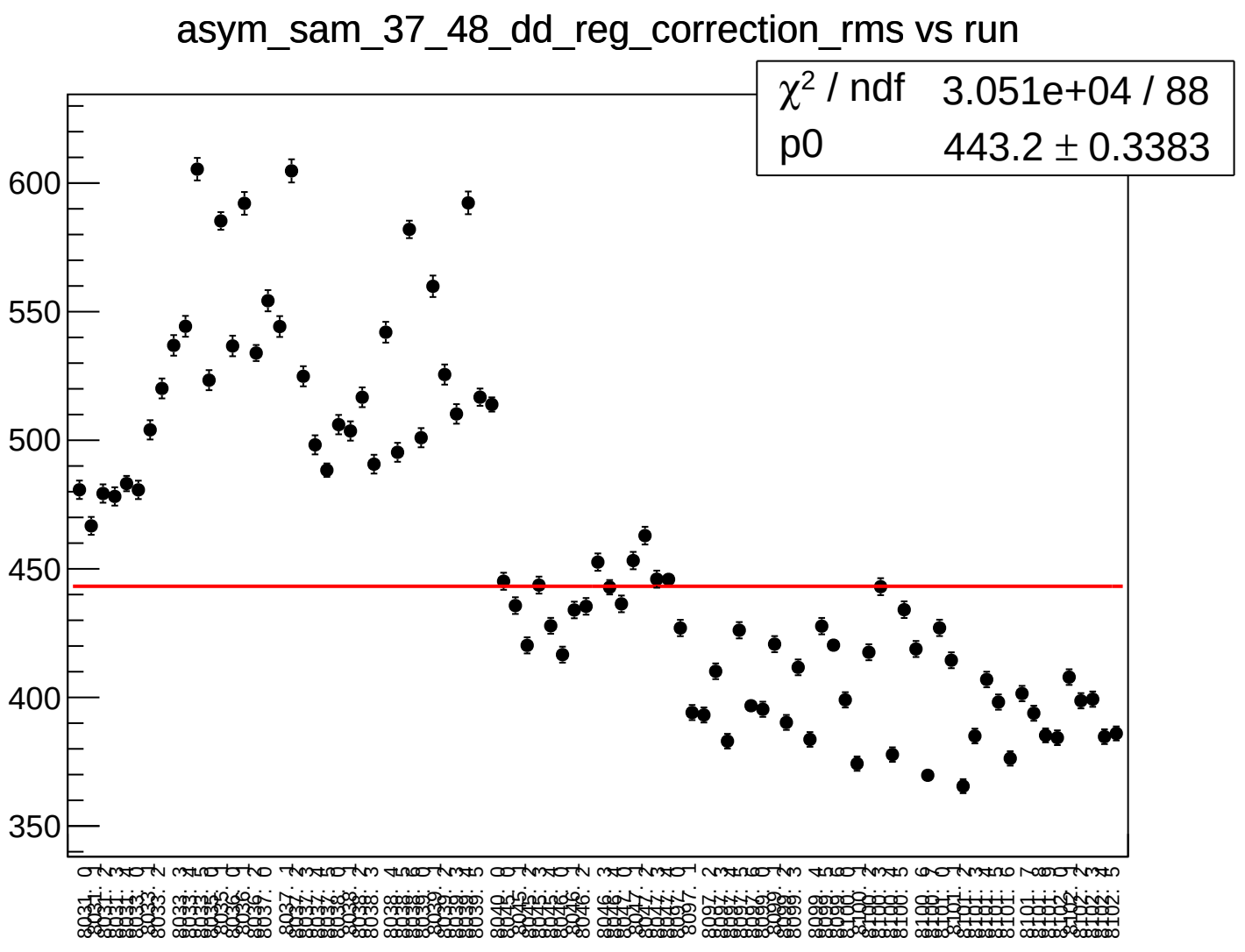

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 89.76 / 88
p0 −76.84 ± 61.52
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean 270.9
Std Dev 0
1
0
−1
−2
−3
−4

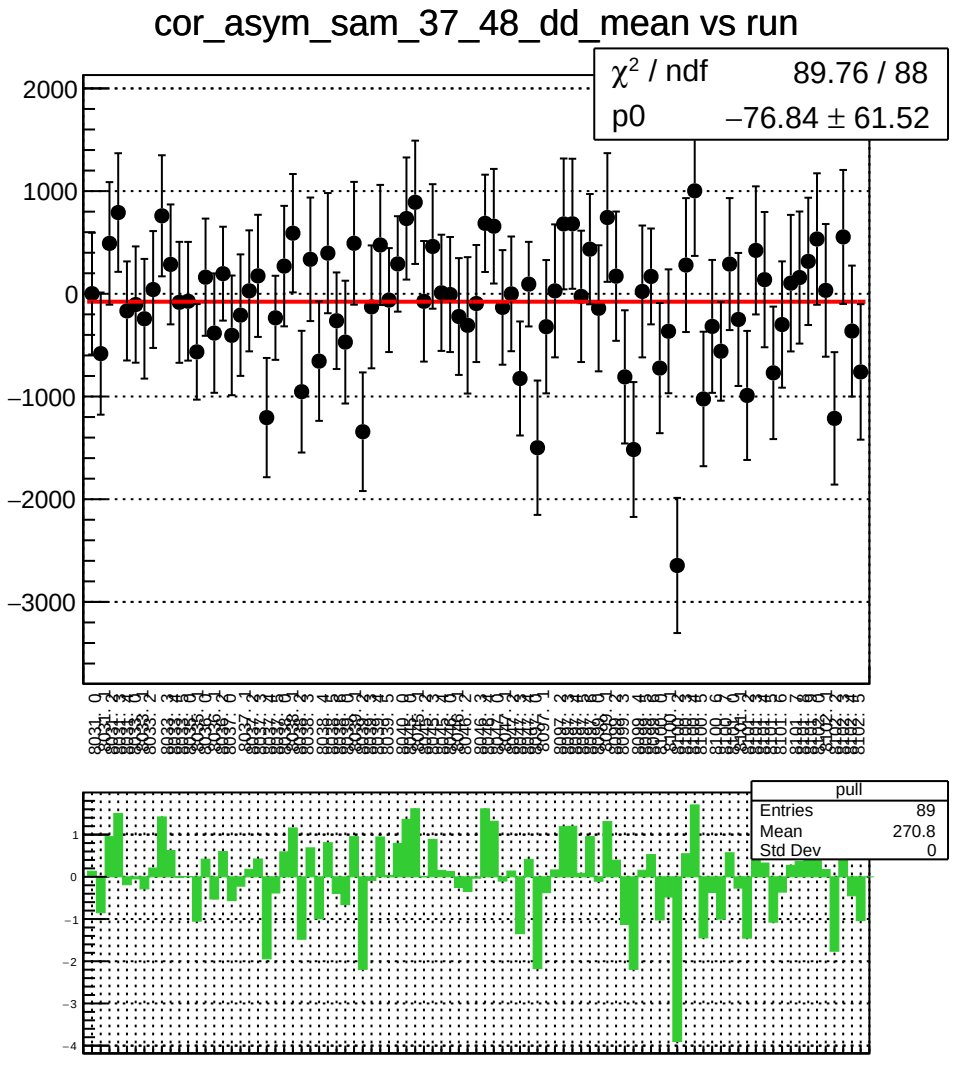

pull1D
Entries 89
Mean −0.01359
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

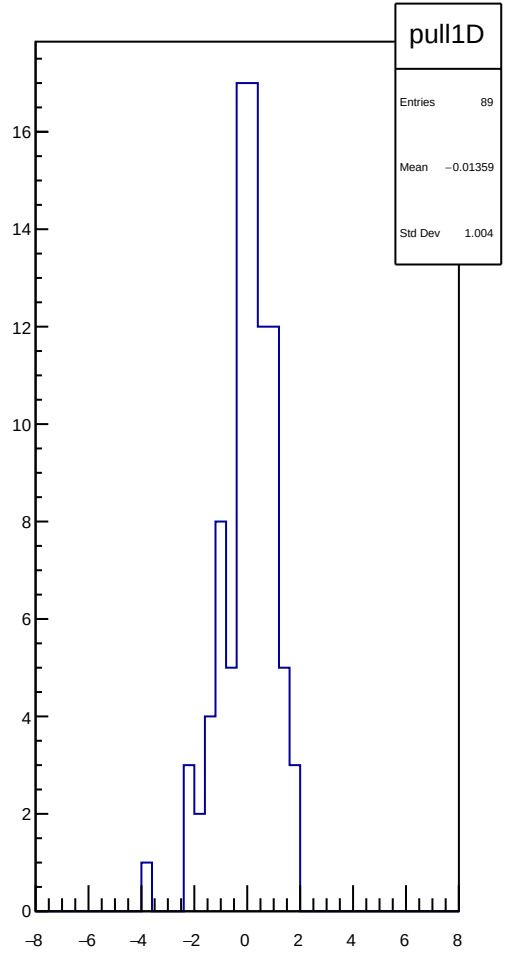

reg_asym_sam_37_48_dd_rms vs run
χ² / ndf 5351 / 88
p0 57.42 ± 0.0435
68
66
64
62
60
58
56
54
52

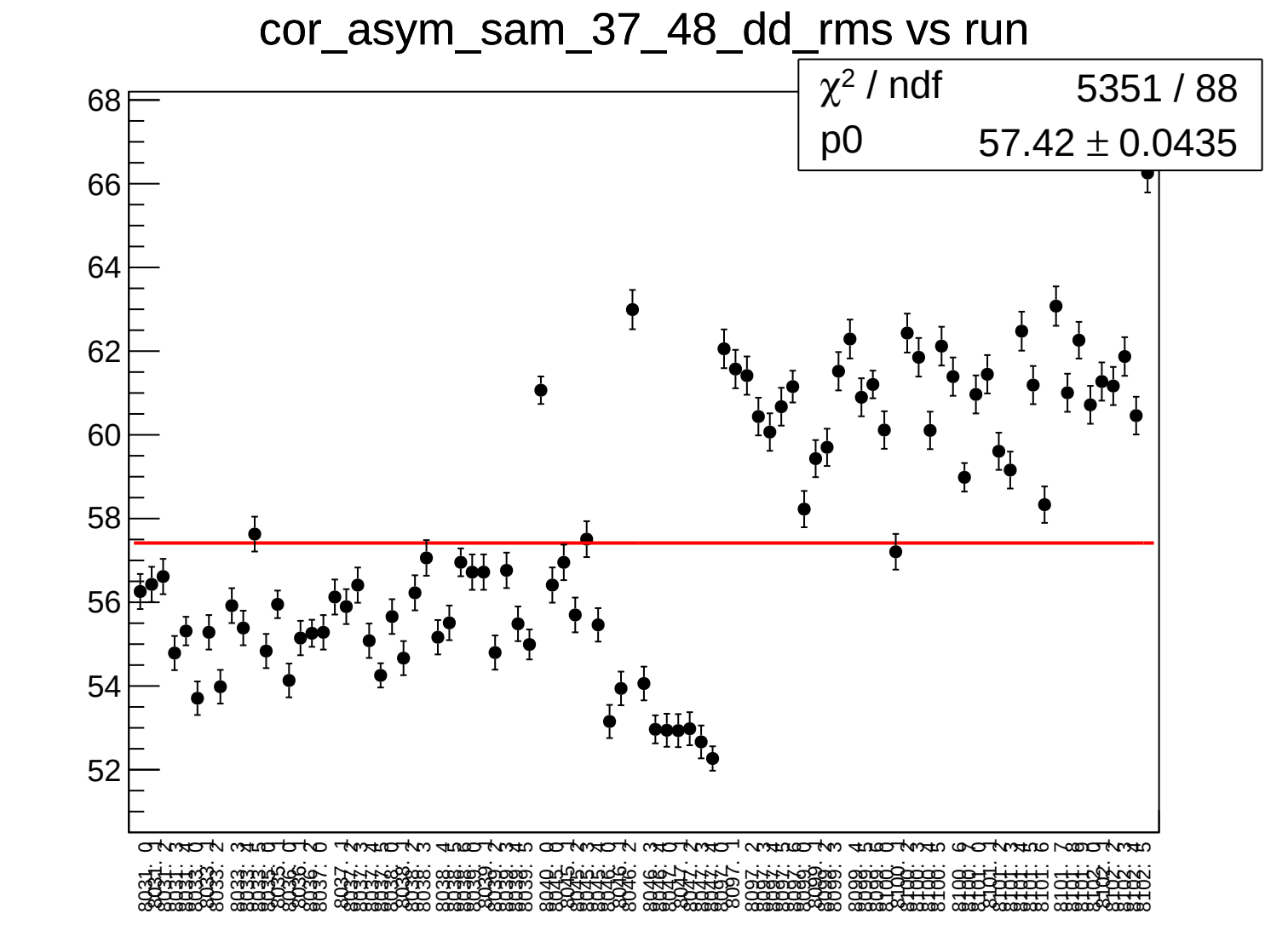

asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 60.29 / 88
p0 333.8 ± 478.4
pull
Entries 89
Mean 3574
Std Dev 0

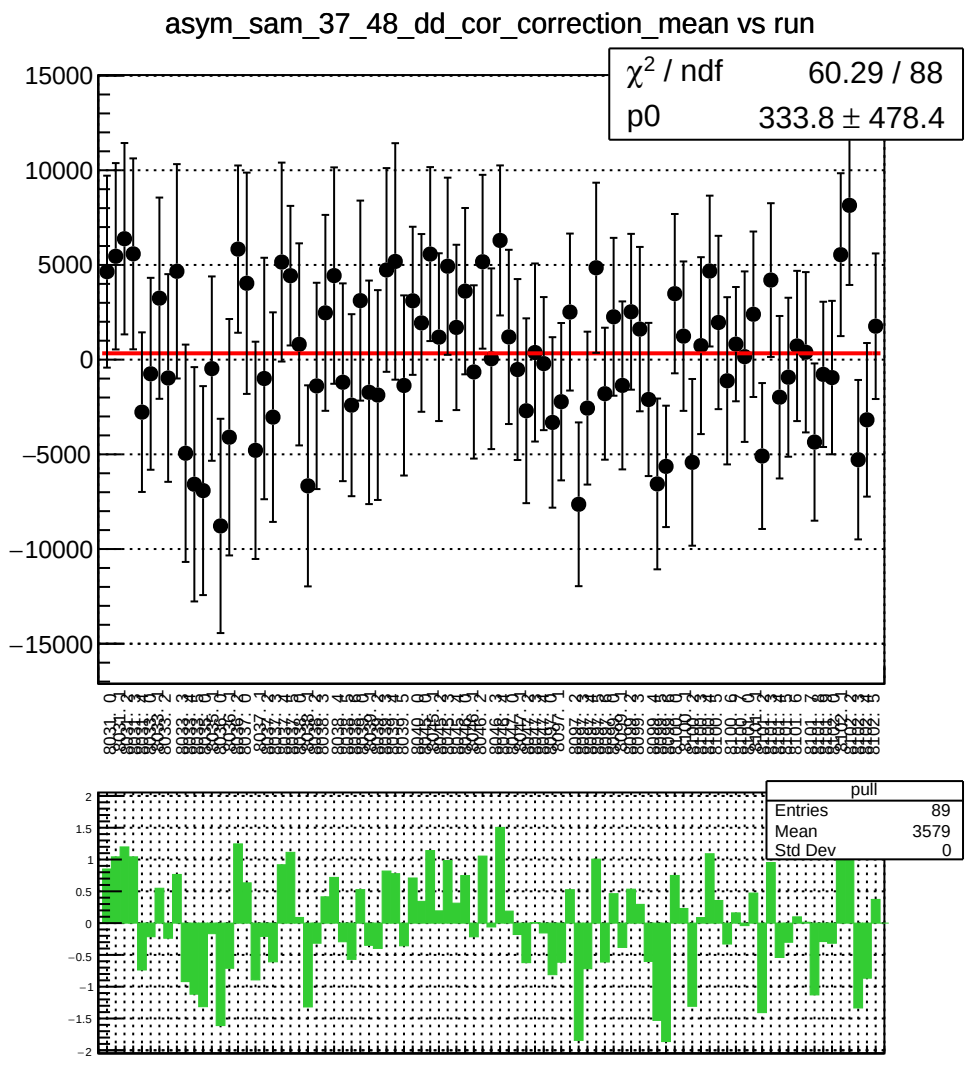

pull1D
Entries 89
Mean −0.0005343
Std Dev 0.823

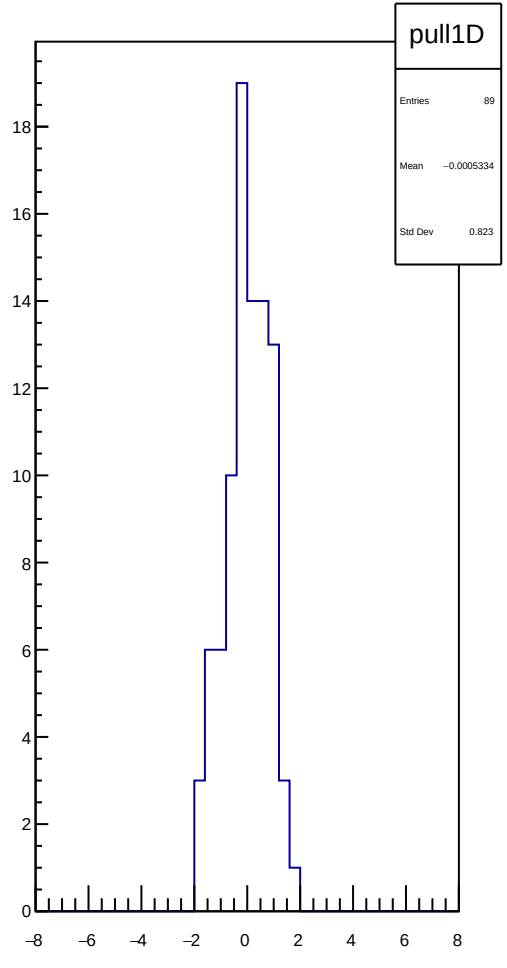

asym_sam_37_48_dd_reg_correction_rms vs run
χ² / ndf 3.051e+04 / 88
p0 443.2 ± 0.3383
600
550
500
450
400
350

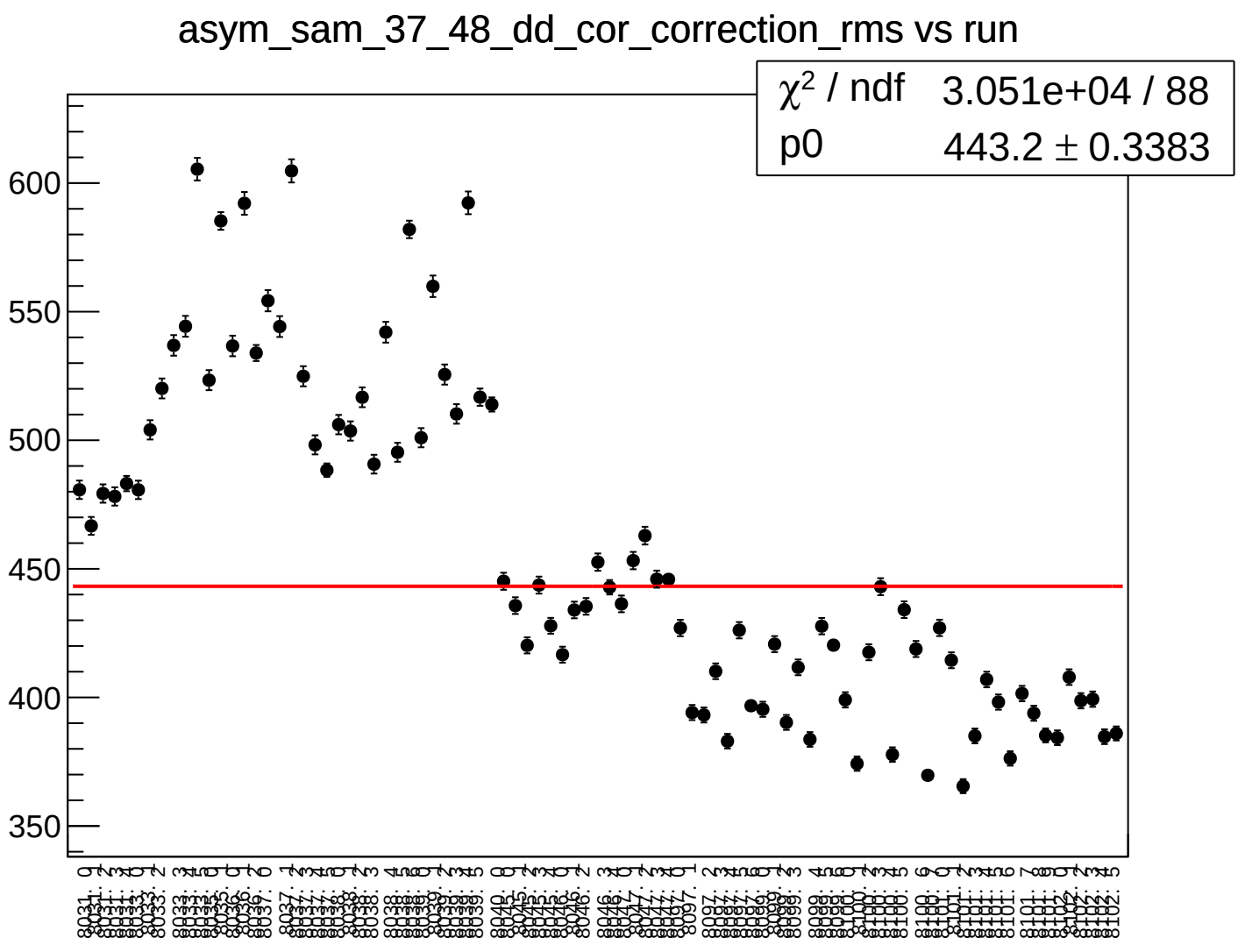

cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 89.76 / 88
p0 −76.84 ± 61.52
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean 270.8
Std Dev 0
1
0
−1
−2
−3
−4

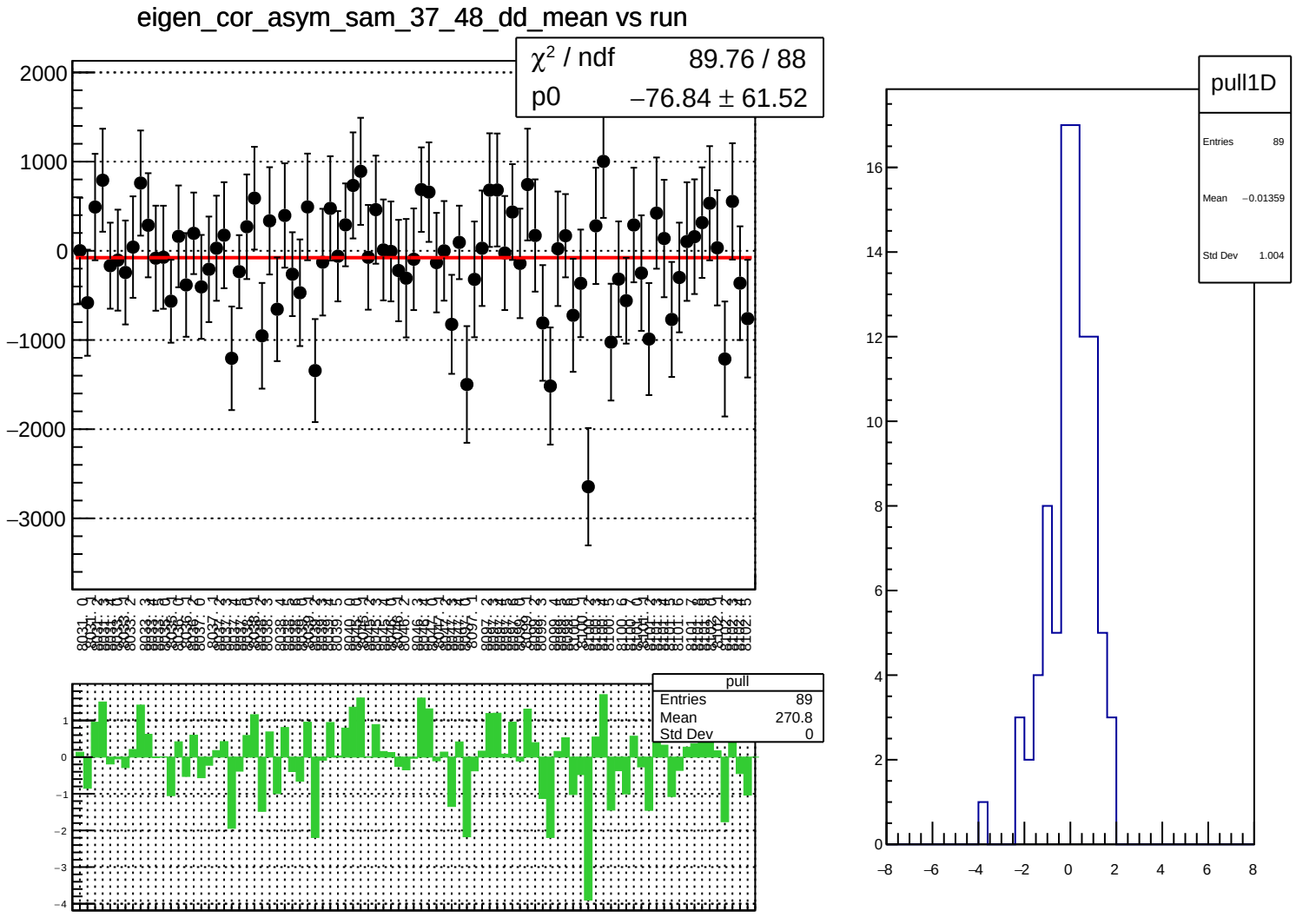

pull1D
Entries 89
Mean −0.01359
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

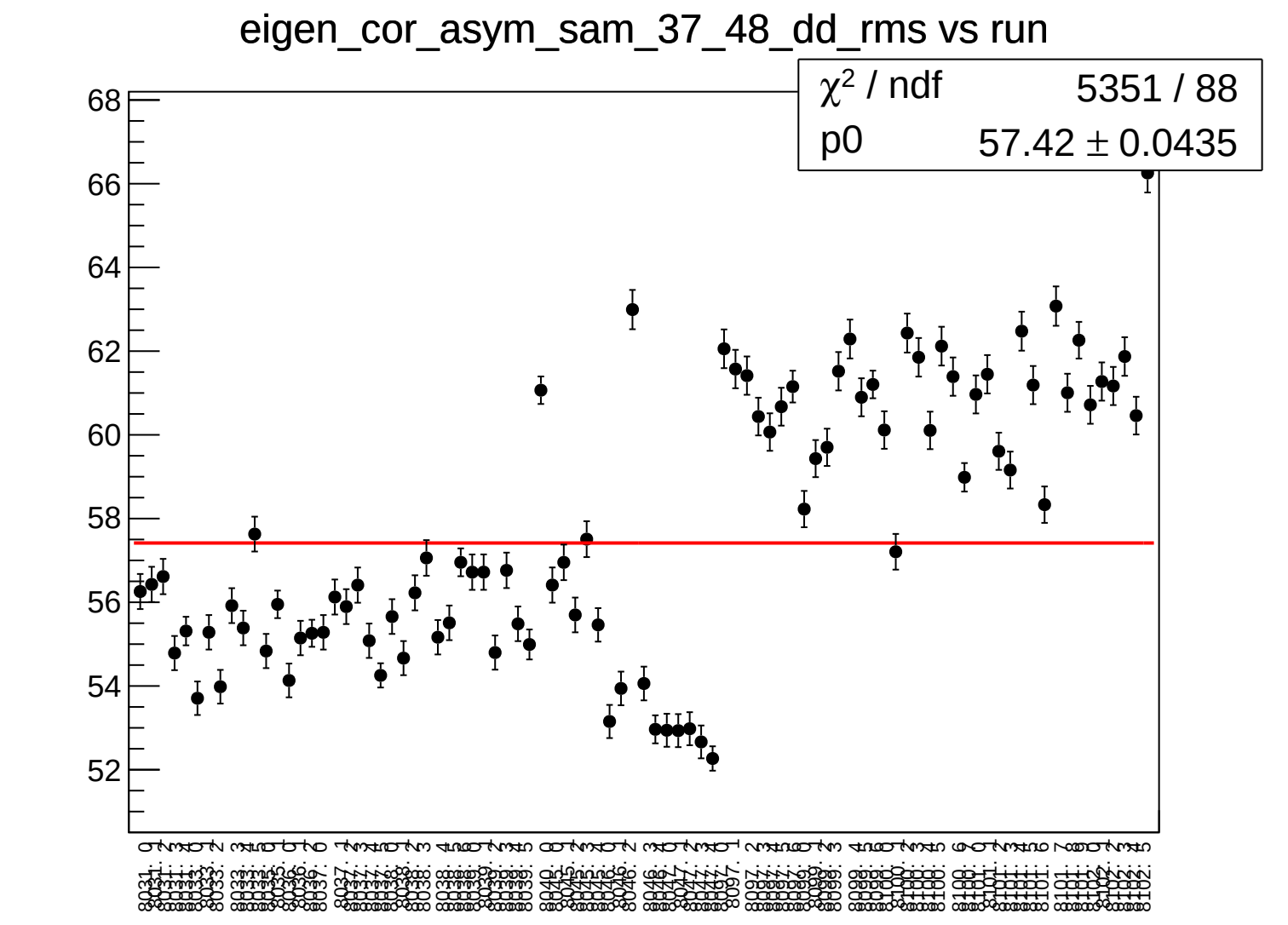

cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 5351 / 88
p0 57.42 ± 0.0435
68
66
64
62
60
58
56
54
52

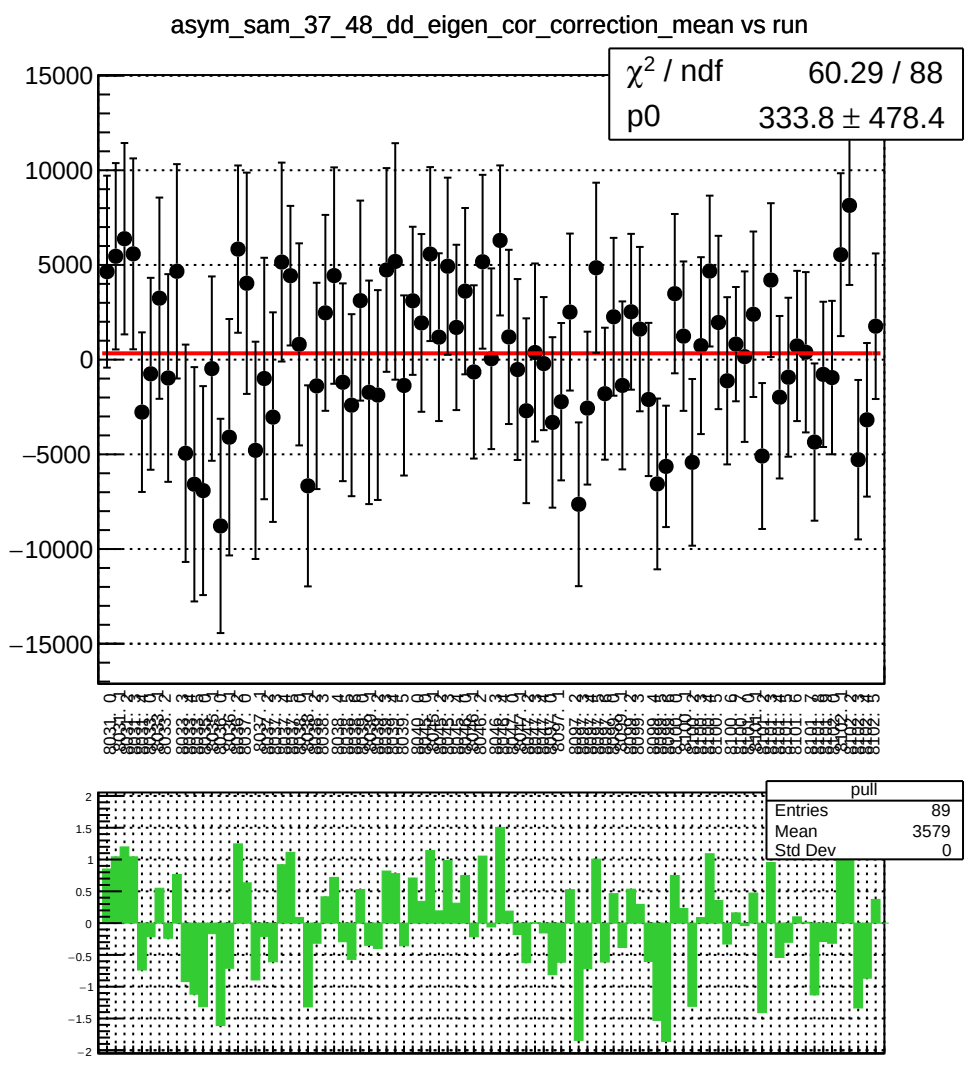

asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 60.29 / 88
p0 333.8 ± 478.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 3579
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

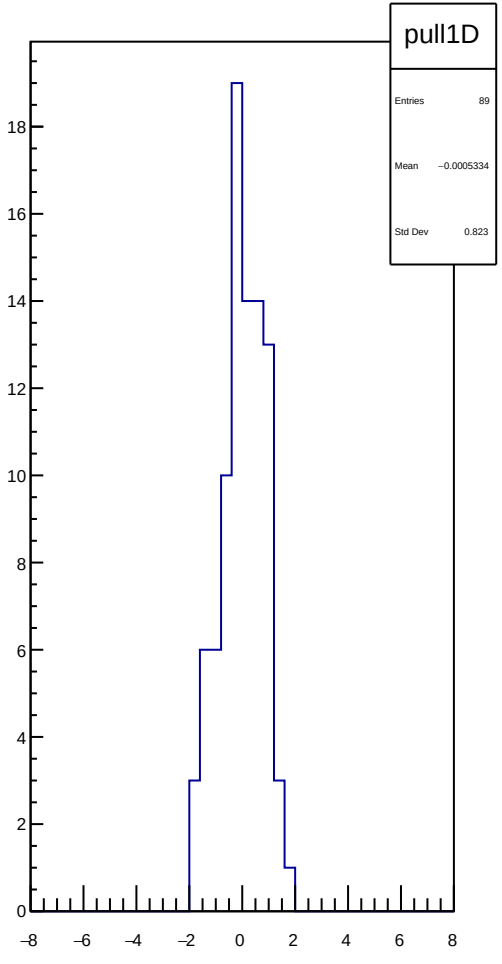

pull1D
Entries 89
Mean −0.0005334
Std Dev 0.823
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

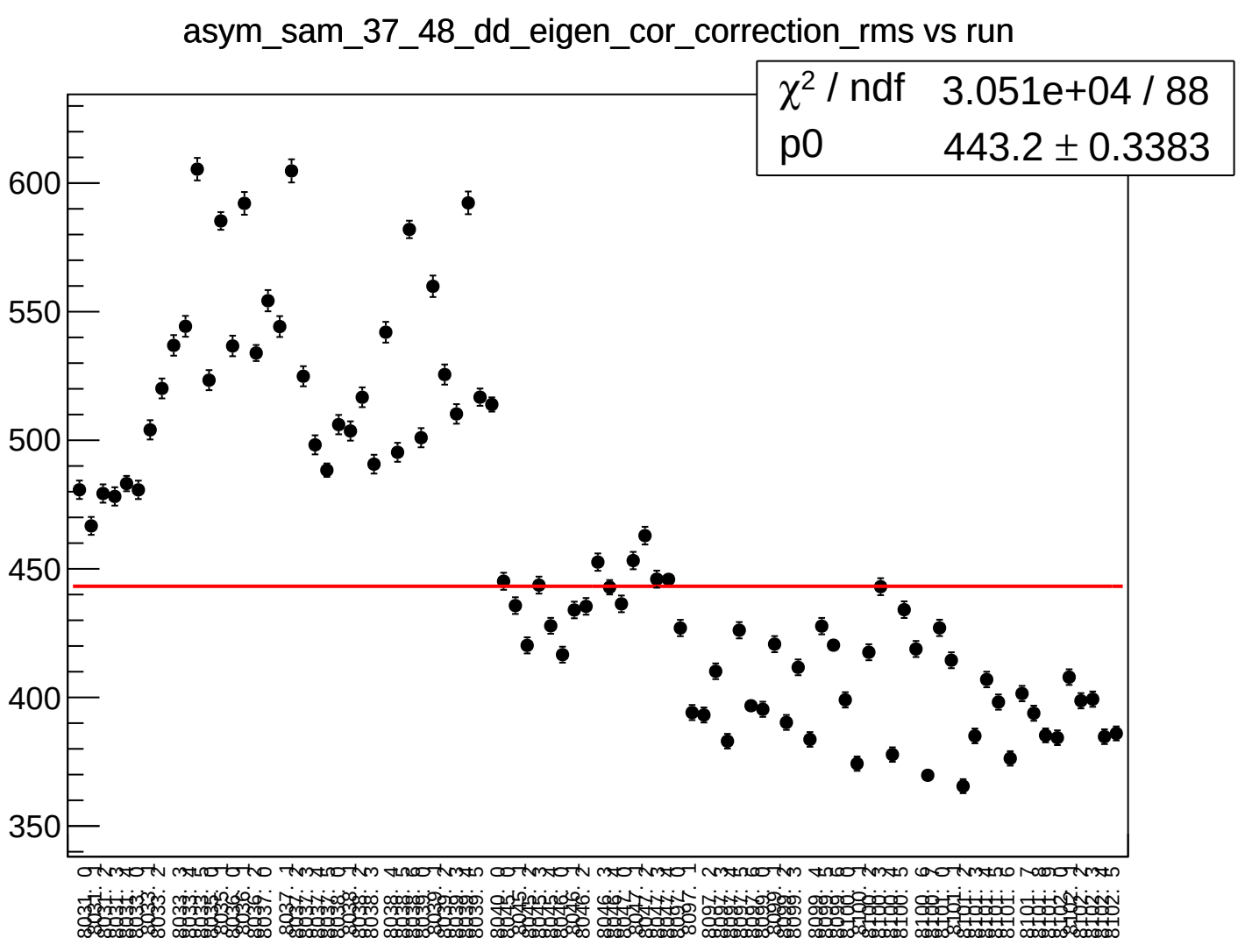

asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 3.051e+04 / 88
p0 443.2 ± 0.3383
600
550
500
450
400
350

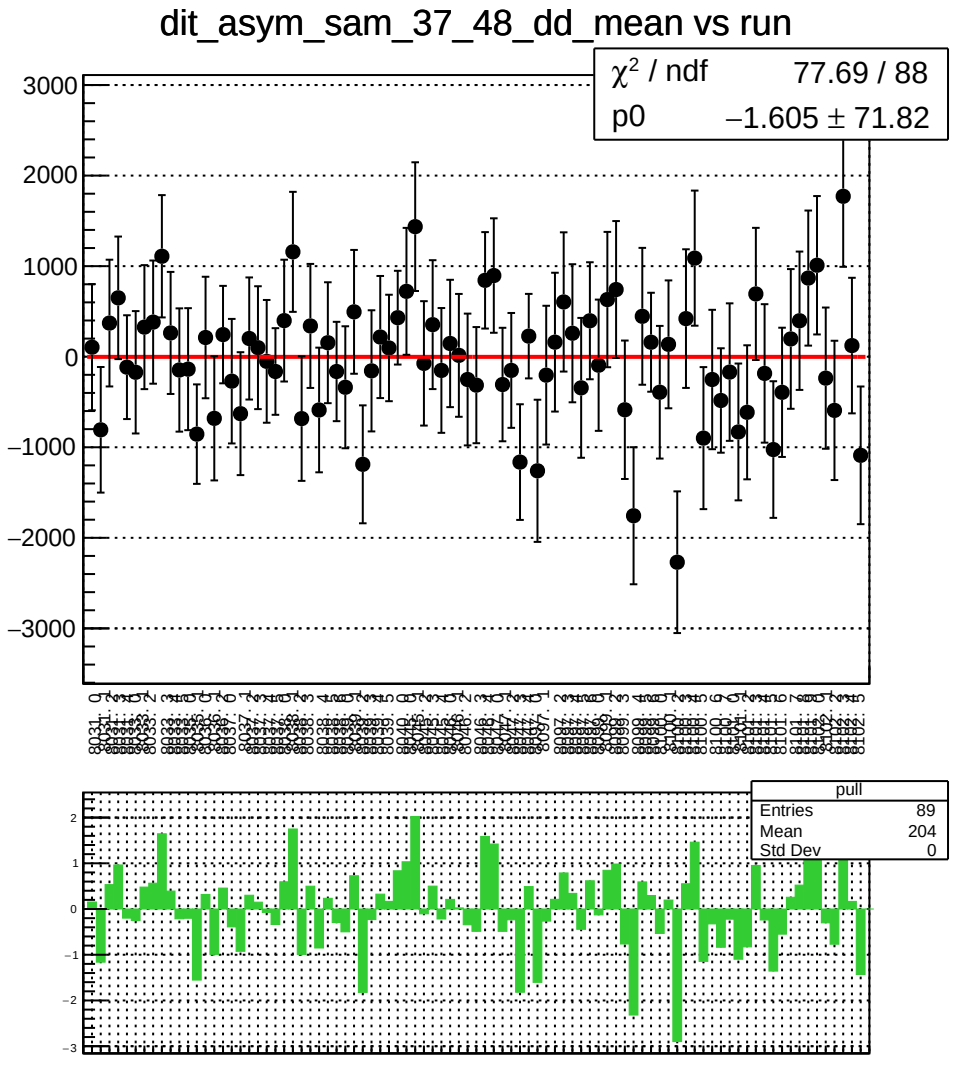

eigen_cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 89.76 / 88
p0 −76.84 ± 61.52
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean 270.8
Std Dev 0
pull1D
Entries 89
Mean −0.01359
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

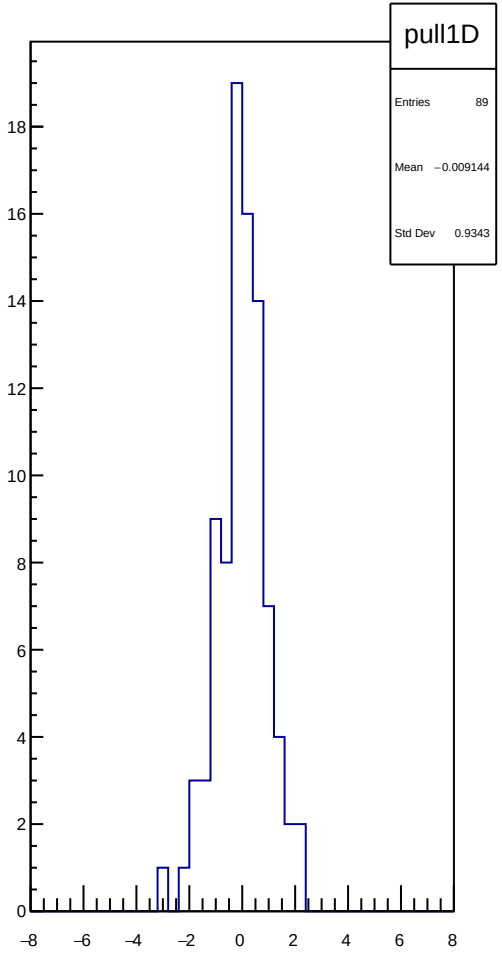

eigen_cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 5351 / 88
p0 57.42 ± 0.0435
68
66
64
62
60
58
56
54
52

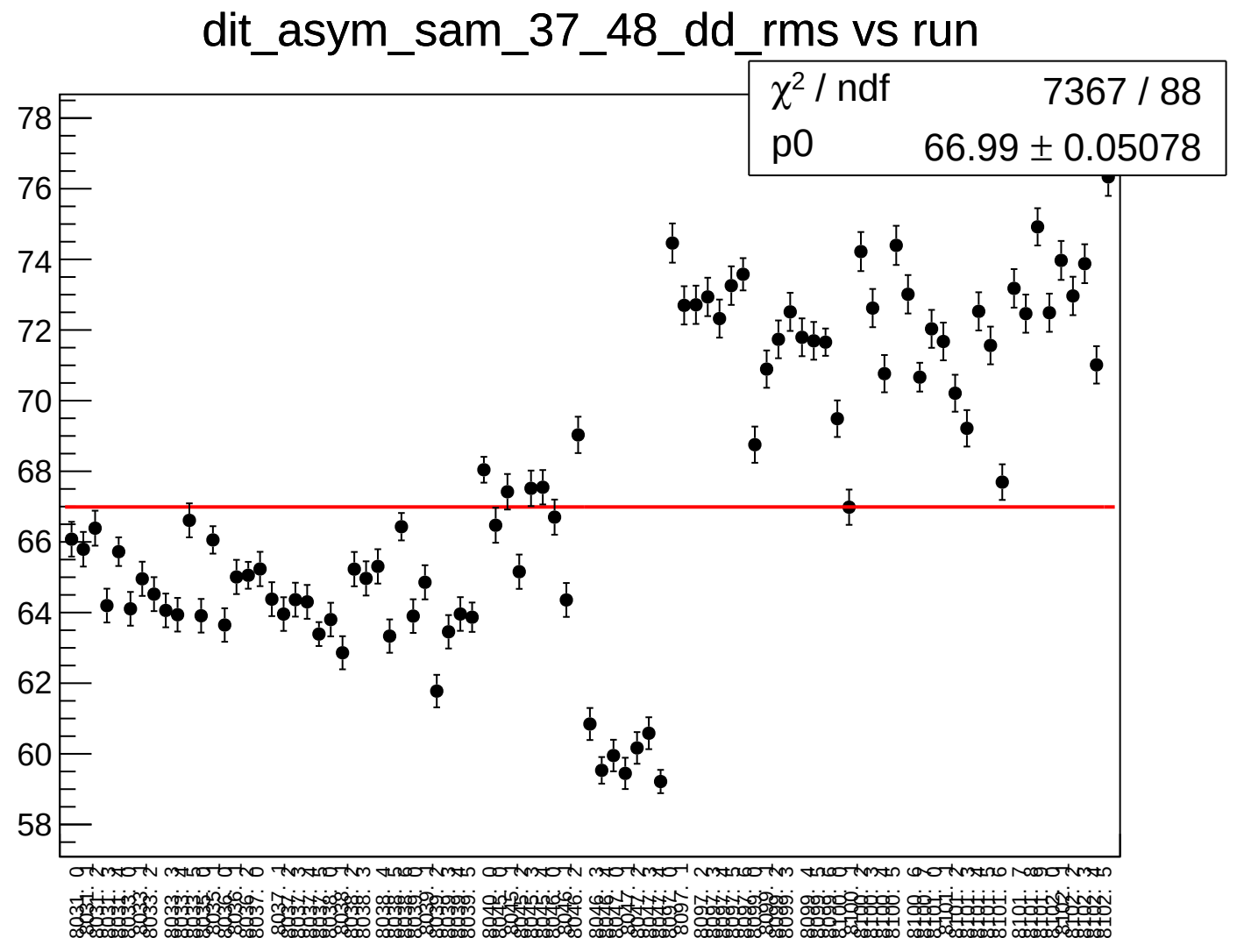

asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 60.29 / 88
p0 333.8 ± 478.4
pull
Entries 89
Mean 3579
Std Dev 0

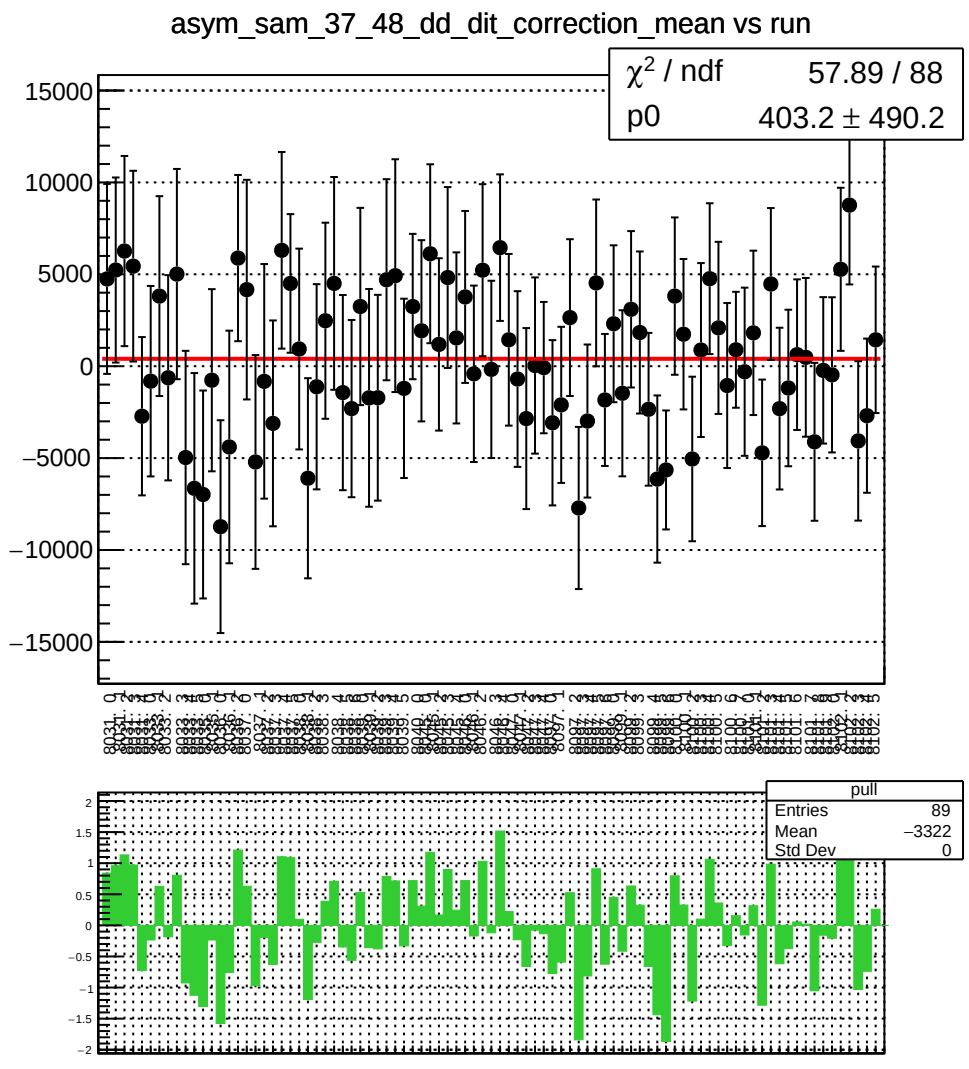

pull1D
Entries 89
Mean −0.0005334
Std Dev 0.823

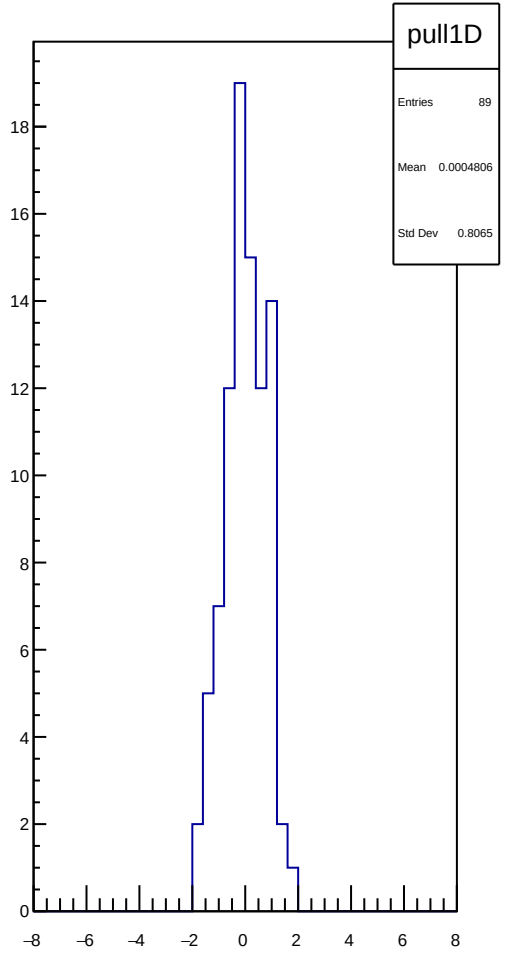

asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.051e+04 / 88
p0 443.2 ± 0.3383
600
550
500
450
400
350

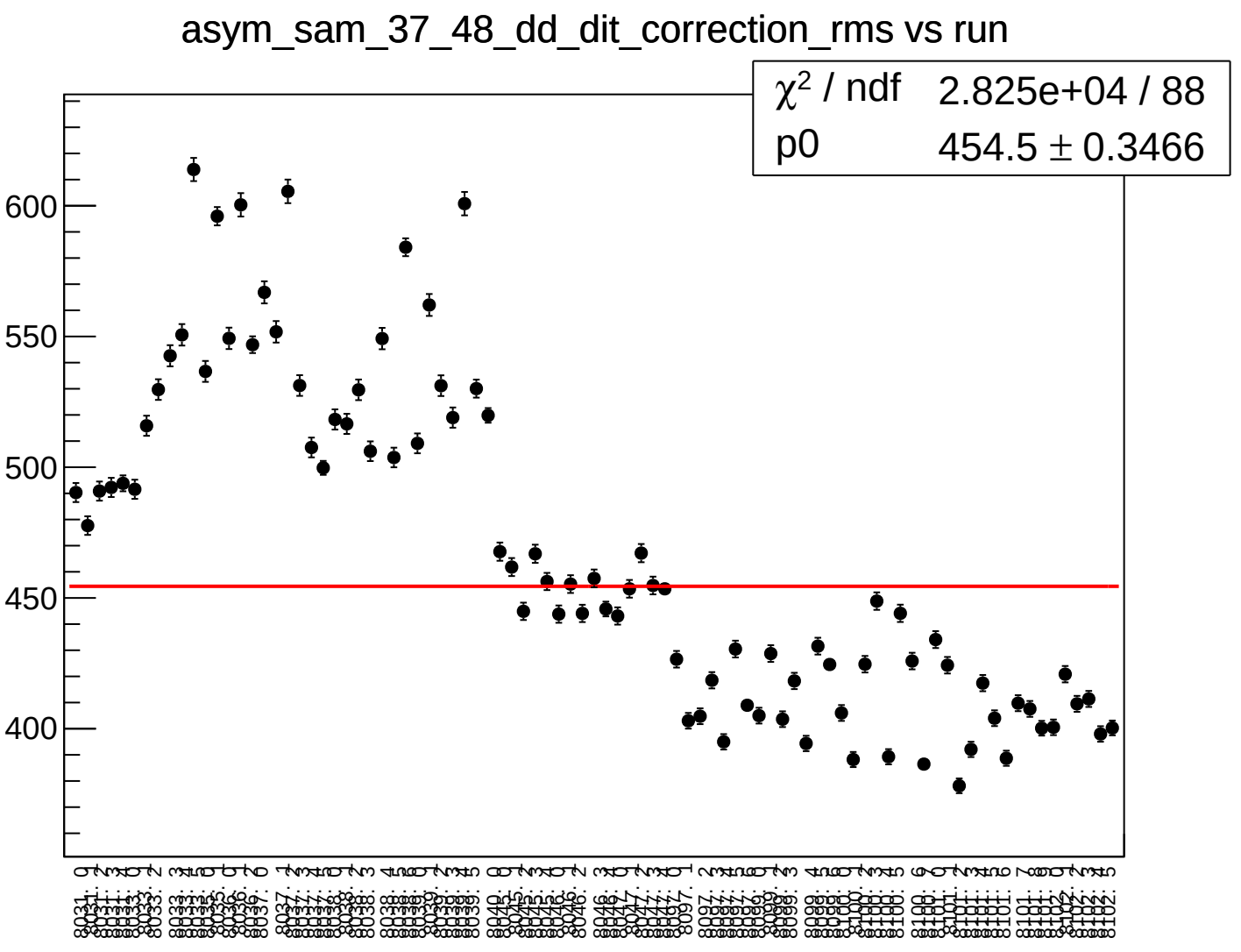

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 77.69 / 88
p0 −1.605 ± 71.82
pull
Entries 89
Mean 204
Std Dev 0

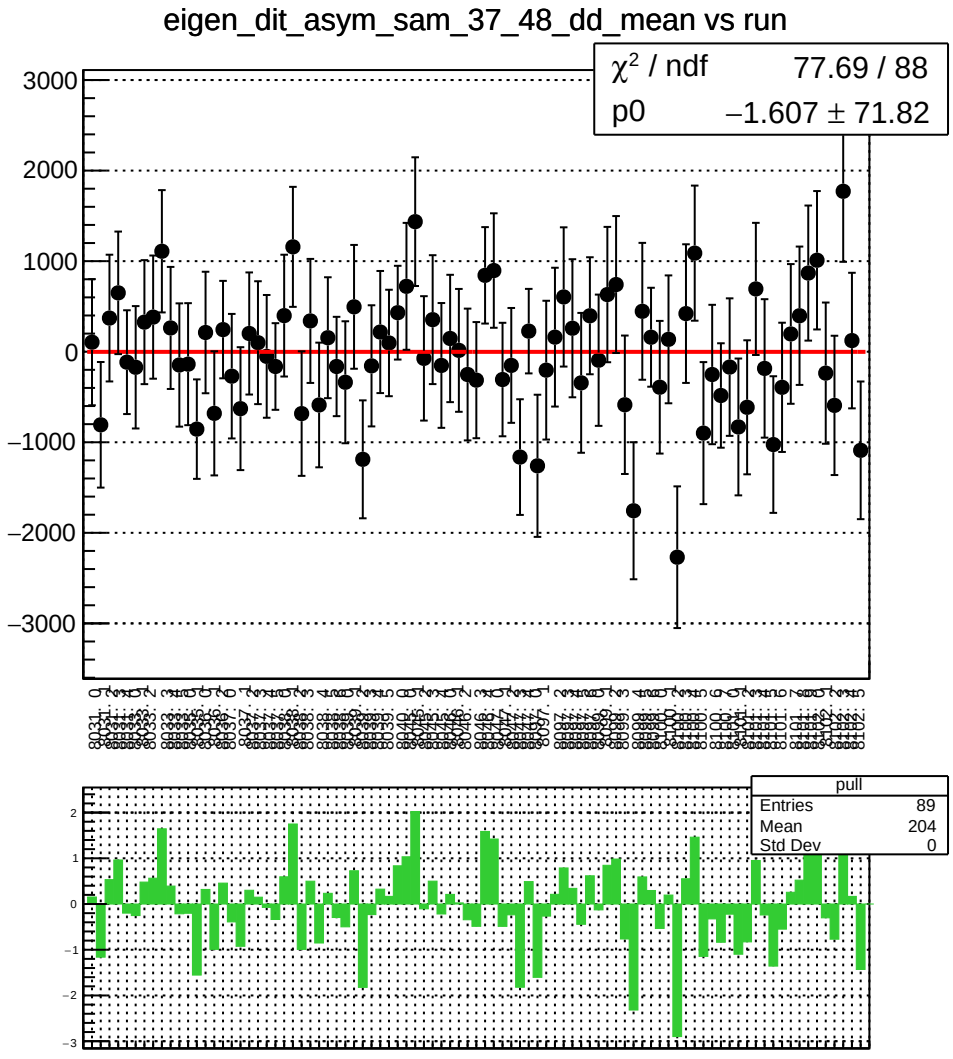

pull1D
Entries 89
Mean −0.009144
Std Dev 0.9343

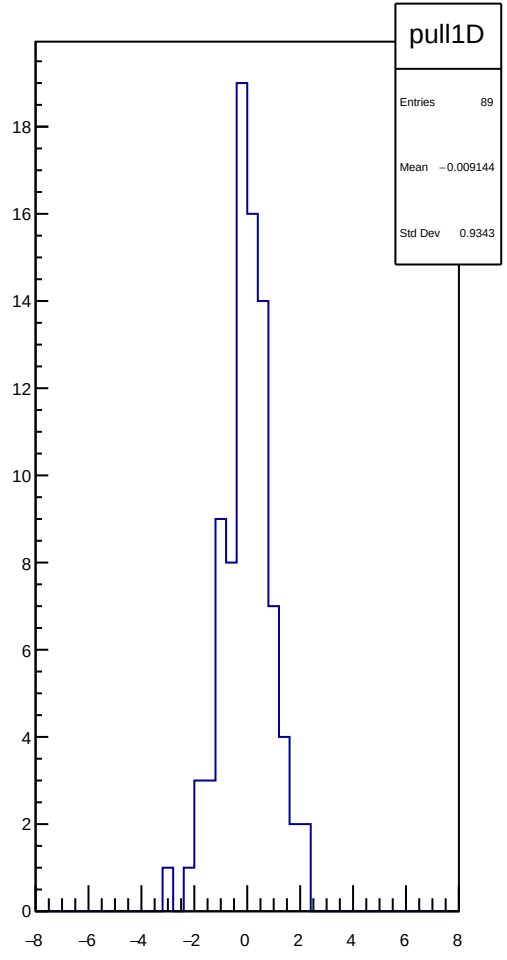

dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 7367 / 88
p0 66.99 ± 0.05078
78
76
74
72
70
68
66
64
62
60
58

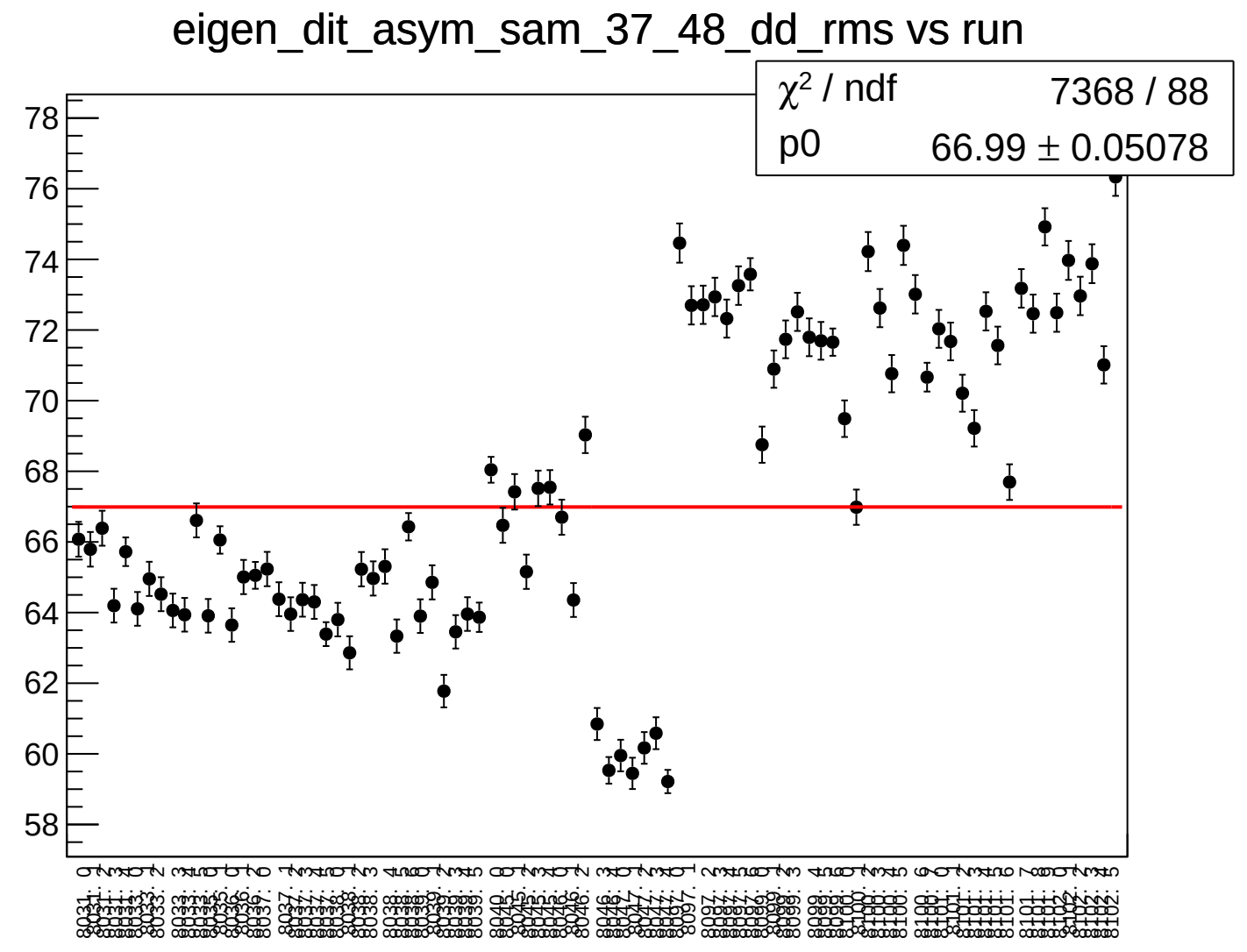

asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 57.89 / 88
p0 403.2 ± 490.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −3322
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

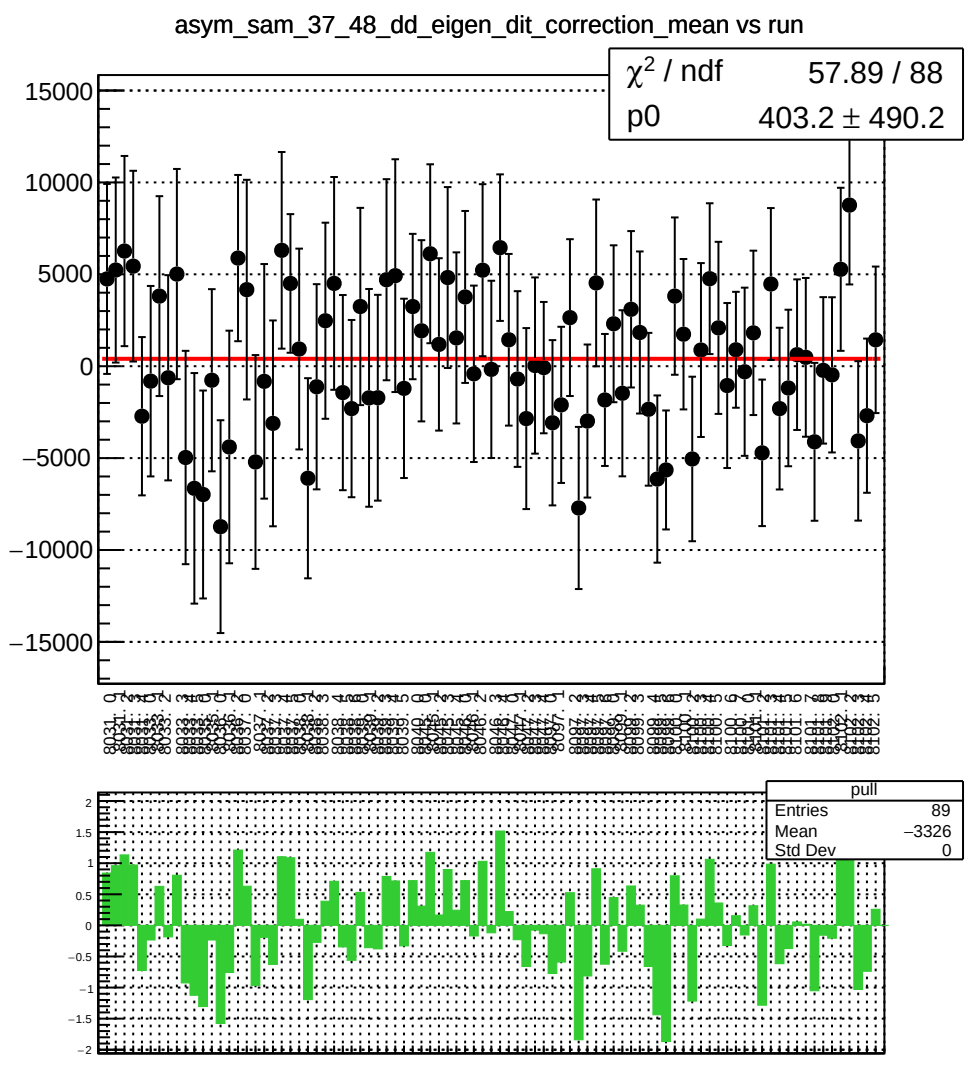

pull1D
Entries 89
Mean 0.0004806
Std Dev 0.8065
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

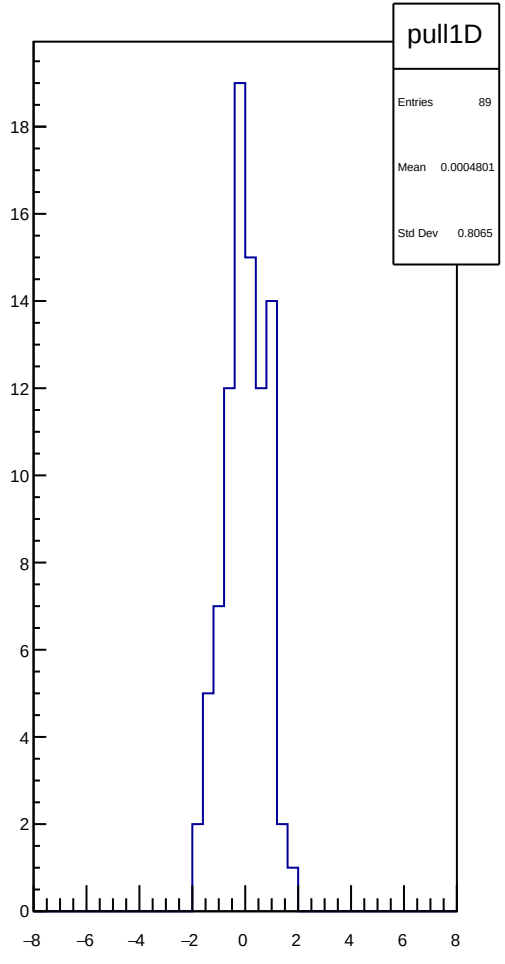

asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 2.825e+04 / 88
p0 454.5 ± 0.3466
600
550
500
450
400

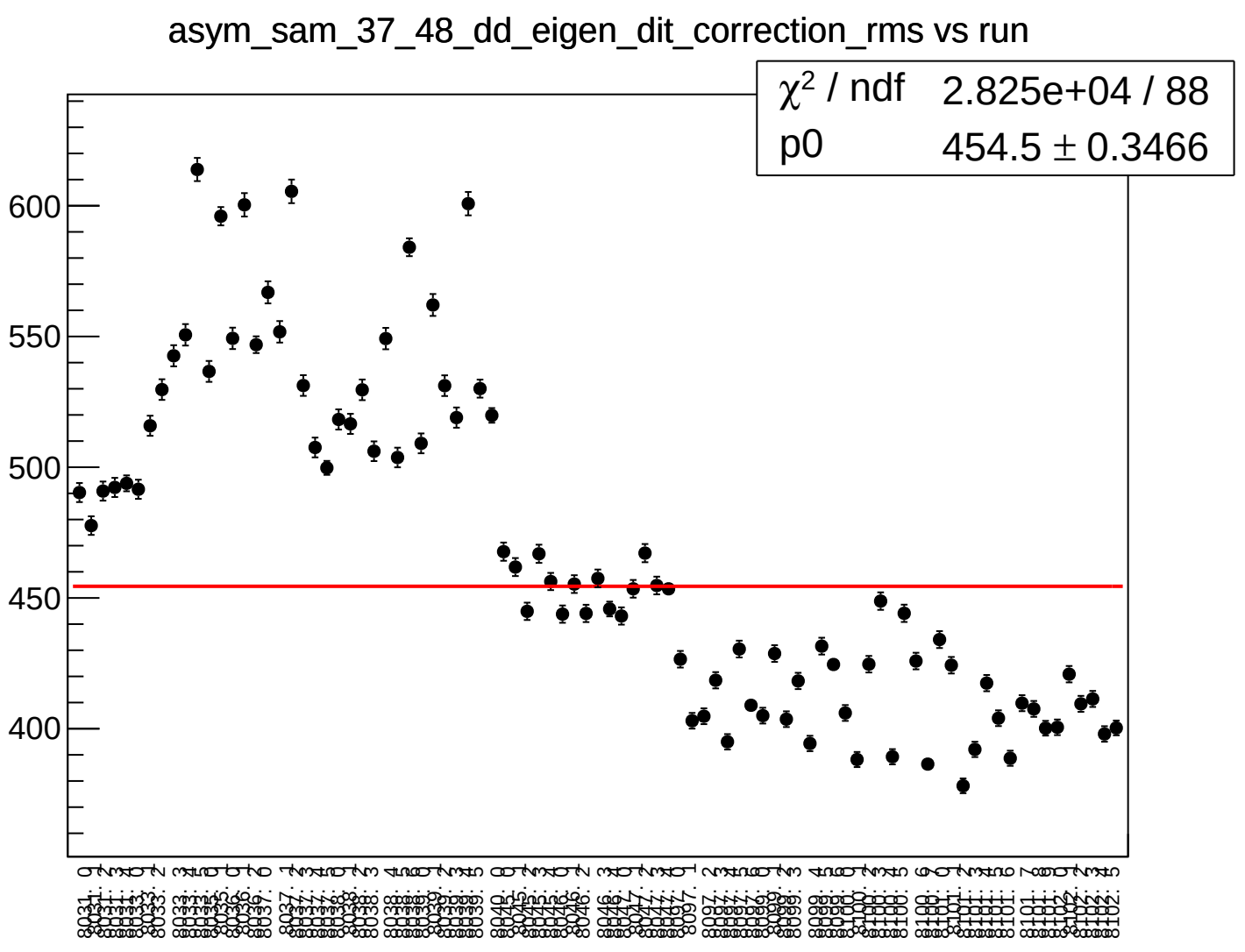

eigen_dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 77.69 / 88
p0 −1.607 ± 71.82
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean 204
Std Dev 0
2
1
0
−1
−2
−3

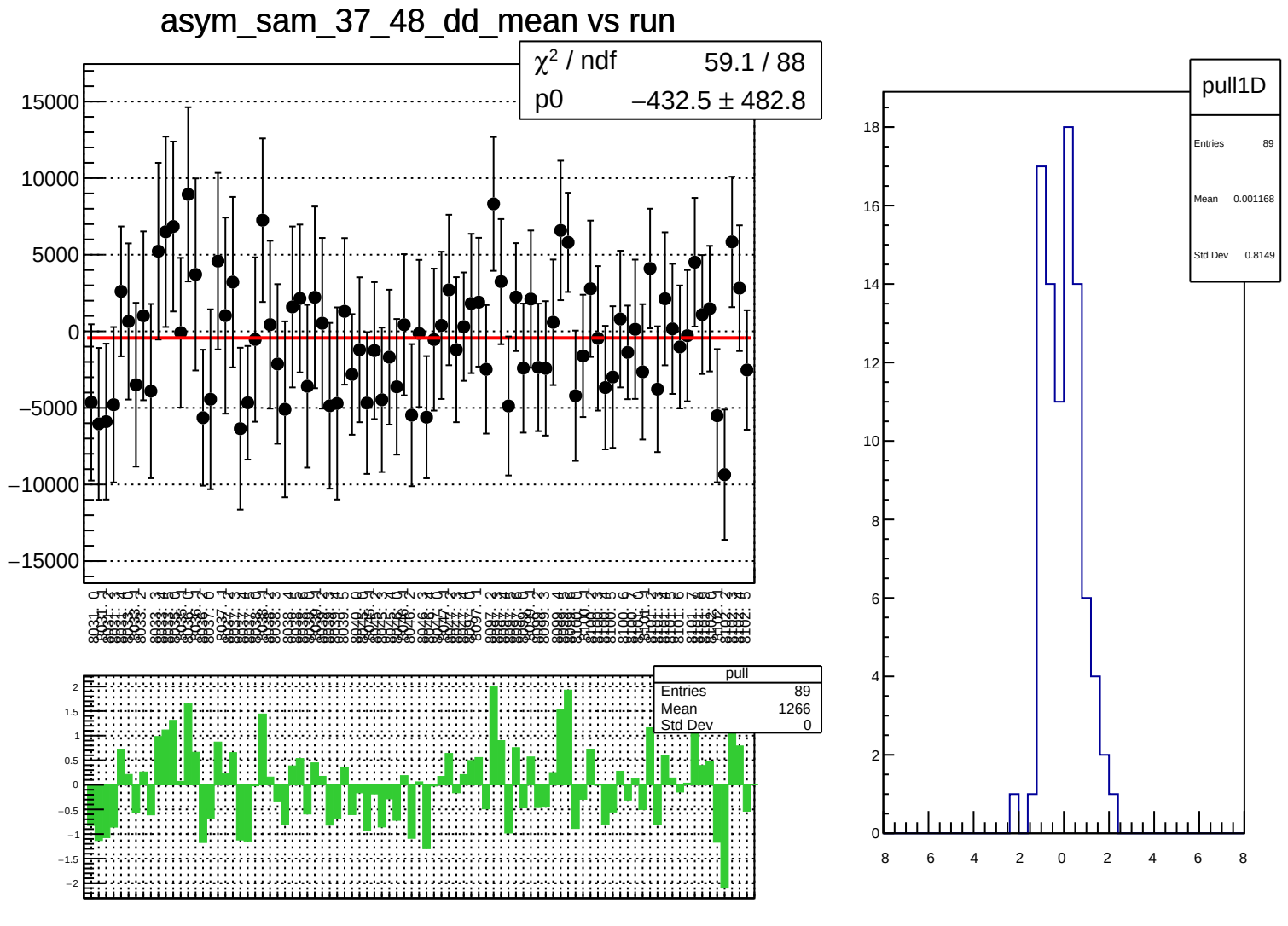

pull1D
Entries 89
Mean −0.009144
Std Dev 0.9343
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

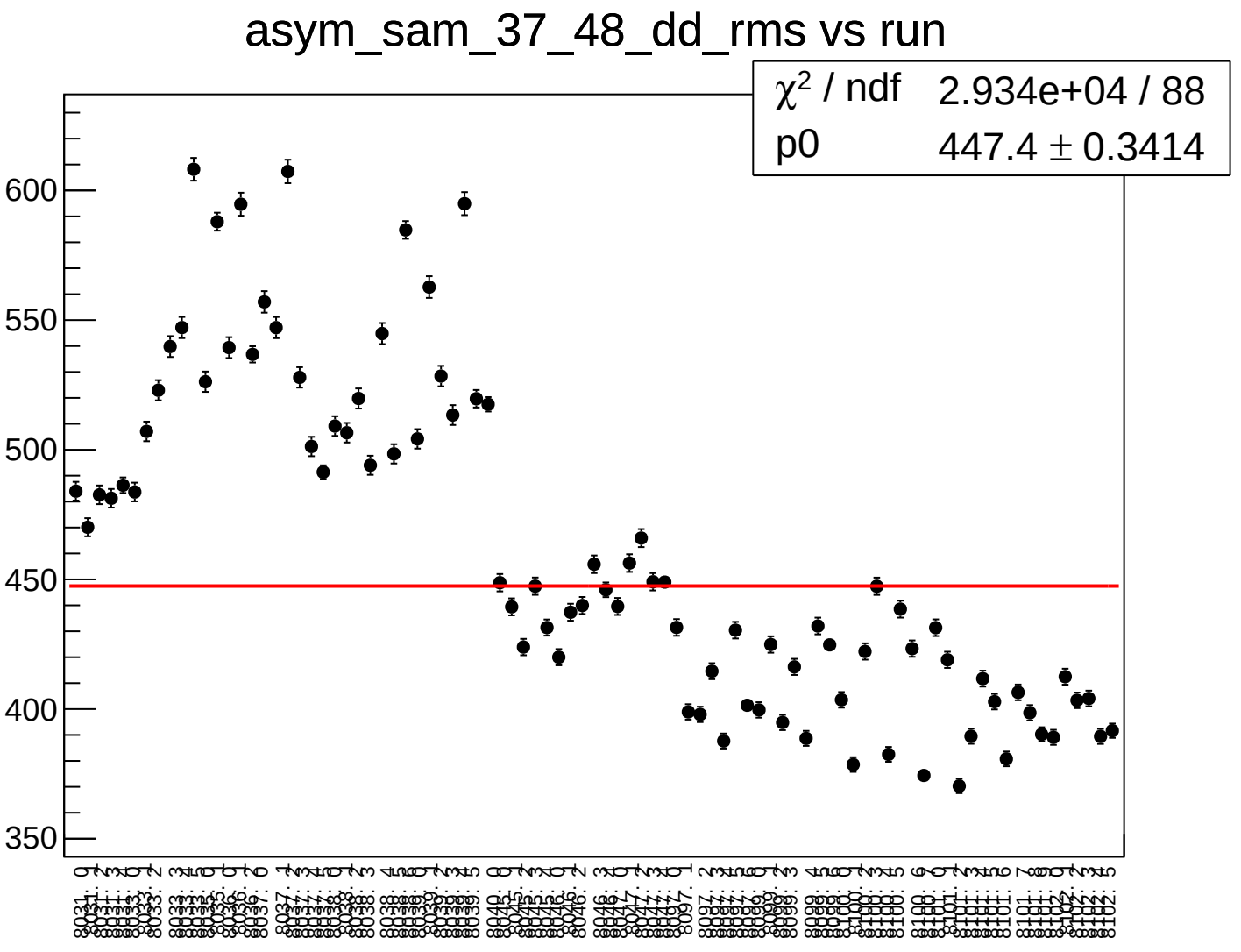

eigen_dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 7368 / 88
p0 66.99 ± 0.05078
78
76
74
72
70
68
66
64
62
60
58

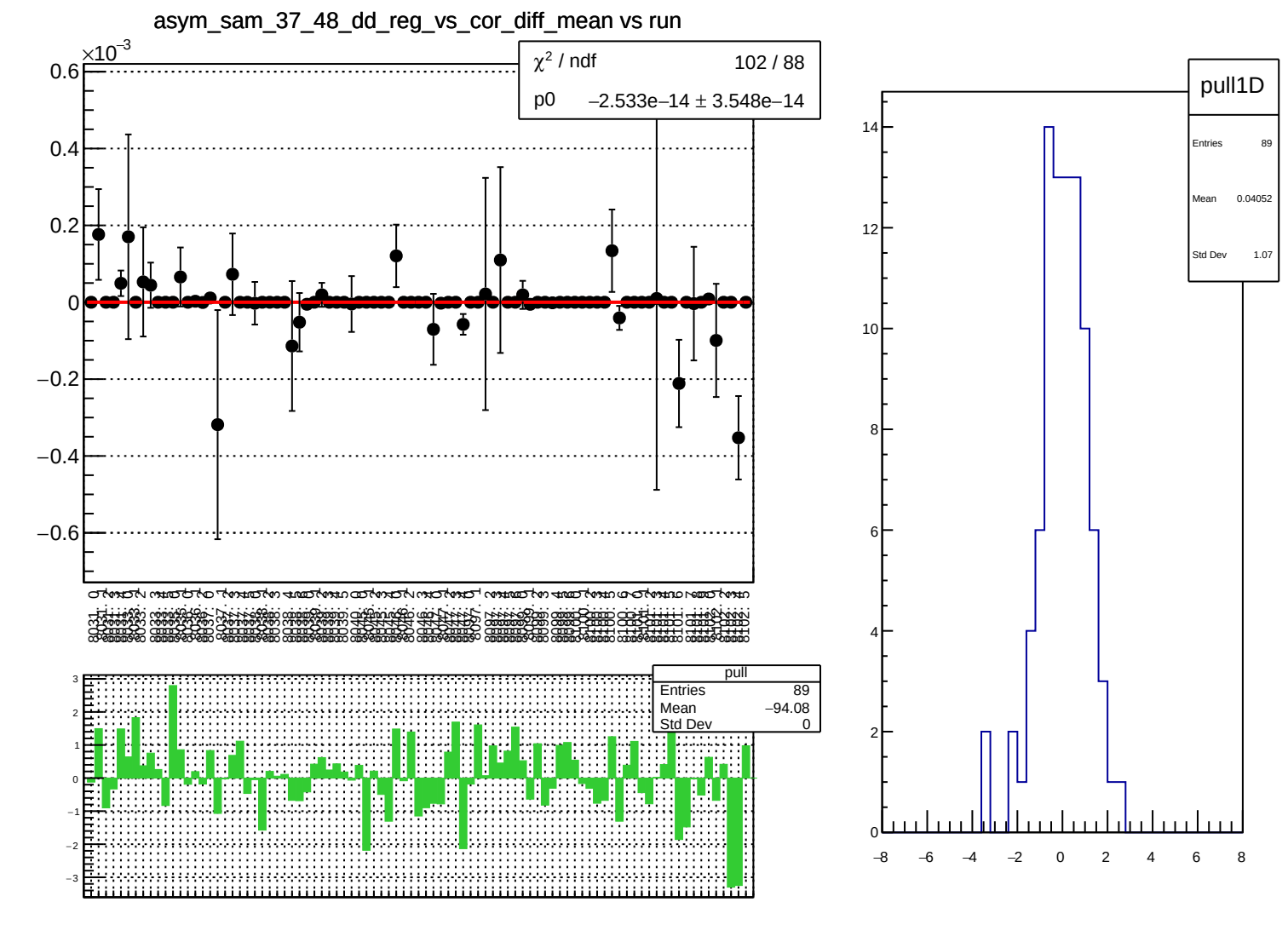

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 57.89 / 88
p0 403.2 ± 490.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −3326
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

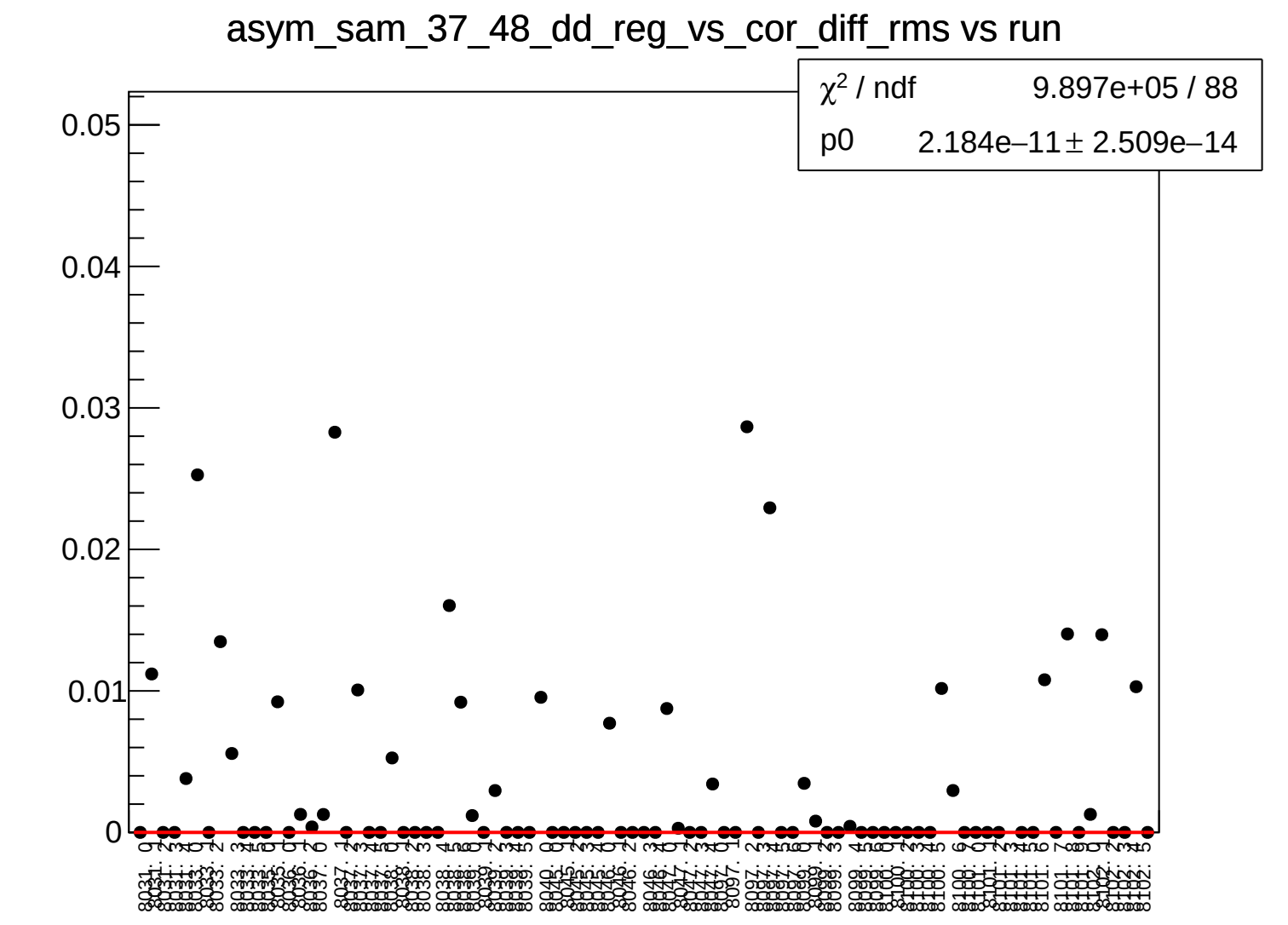

pull1D
Entries 89
Mean 0.0004801
Std Dev 0.8065
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

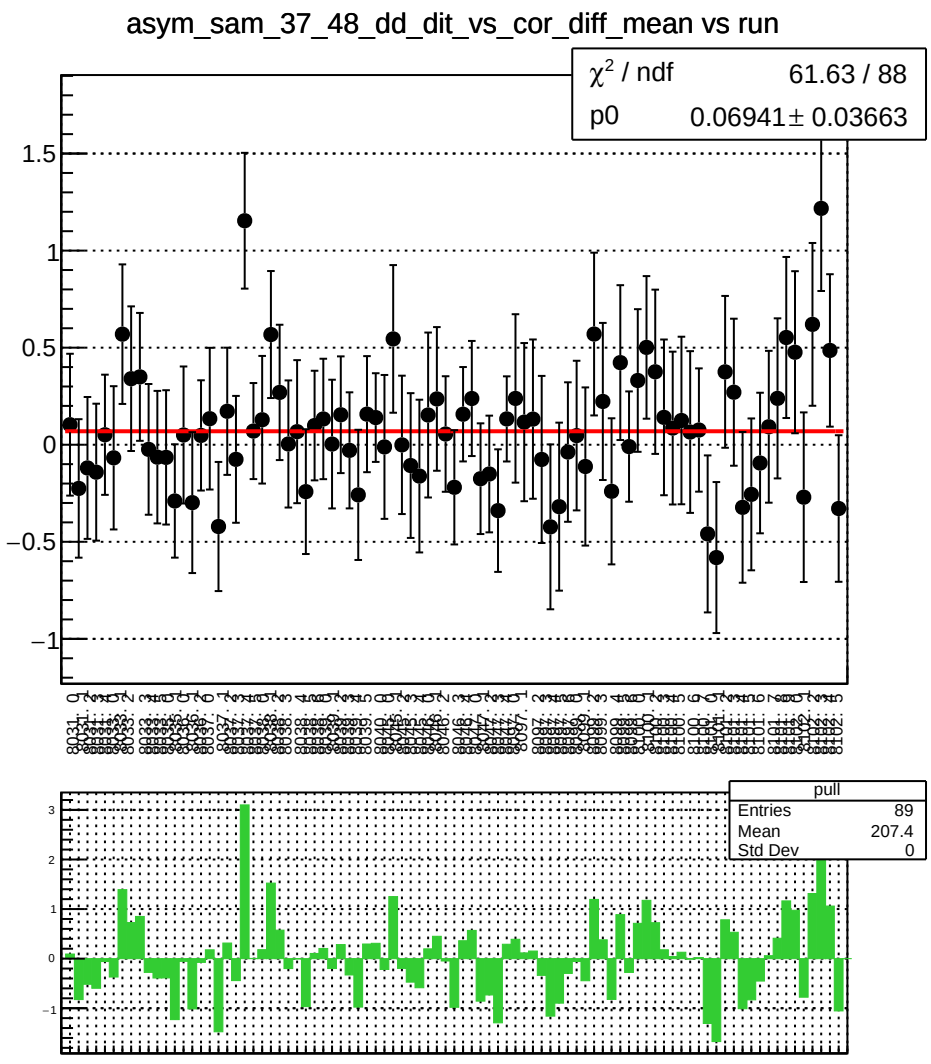

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.825e+04 / 88
p0 454.5 ± 0.3466
600
550
500
450
400

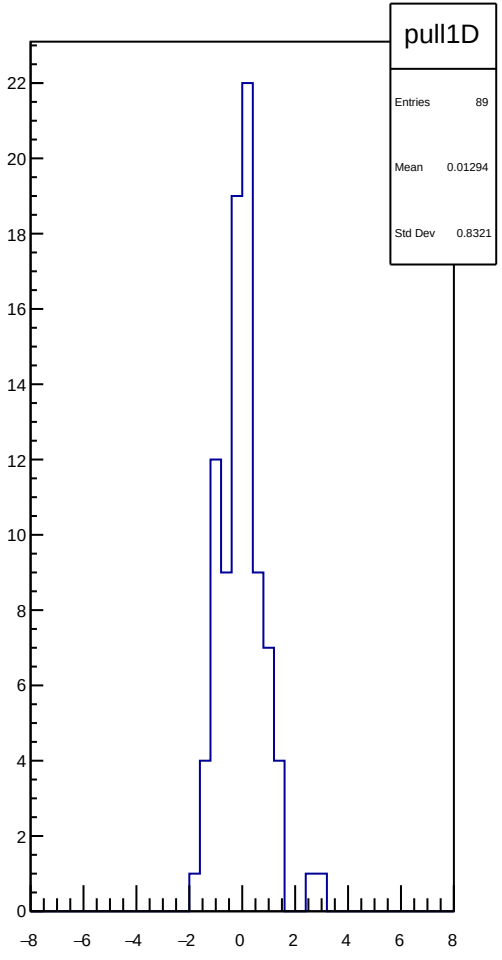

asym_sam_37_48_dd_mean vs run
χ² / ndf 59.1 / 88
p0 −432.5 ± 482.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 1266
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean 0.001168
Std Dev 0.8149
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

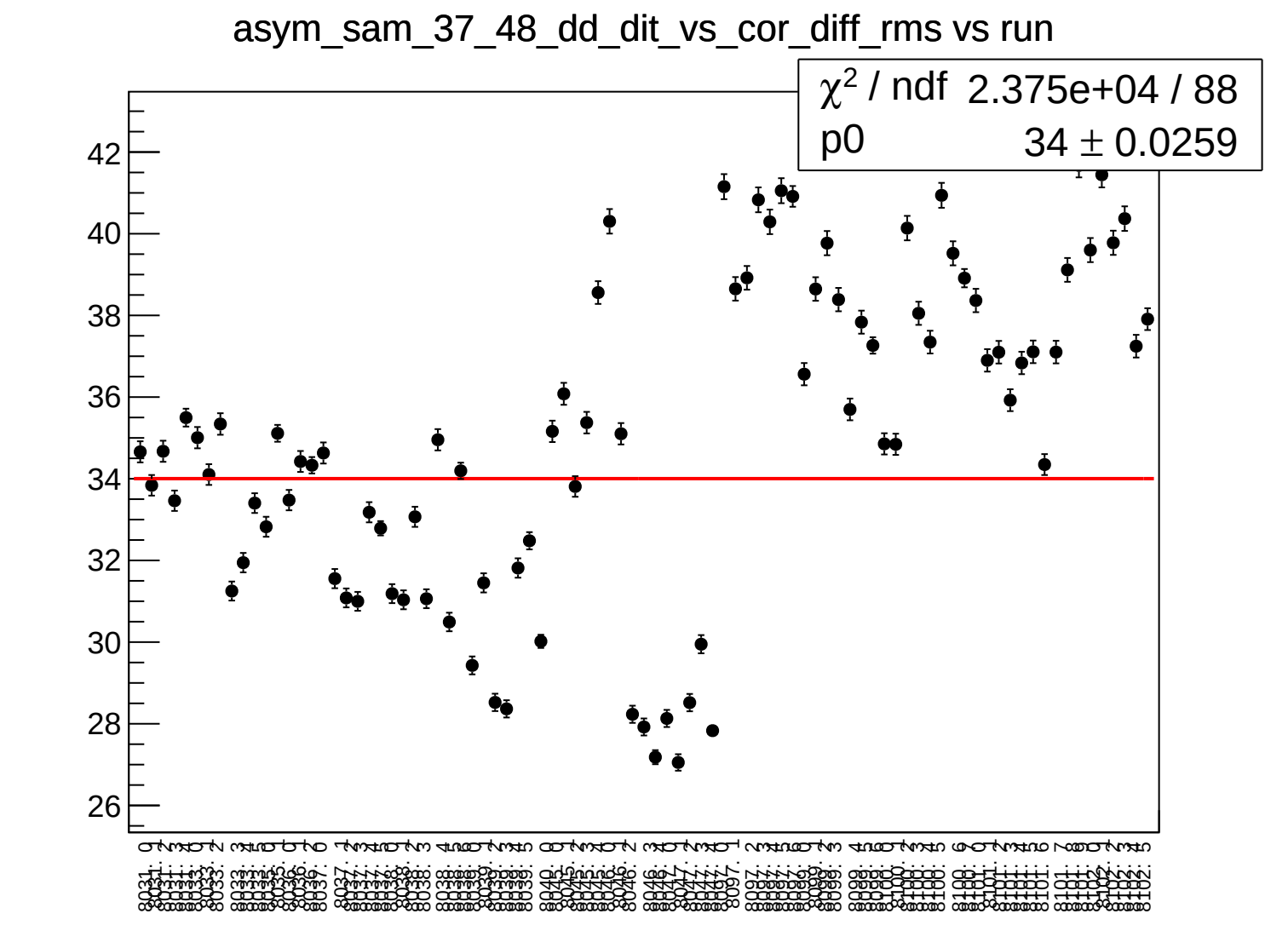

asym_sam_37_48_dd_rms vs run
χ² / ndf 2.934e+04 / 88
p0 447.4 ± 0.3414
600
550
500
450
400
350

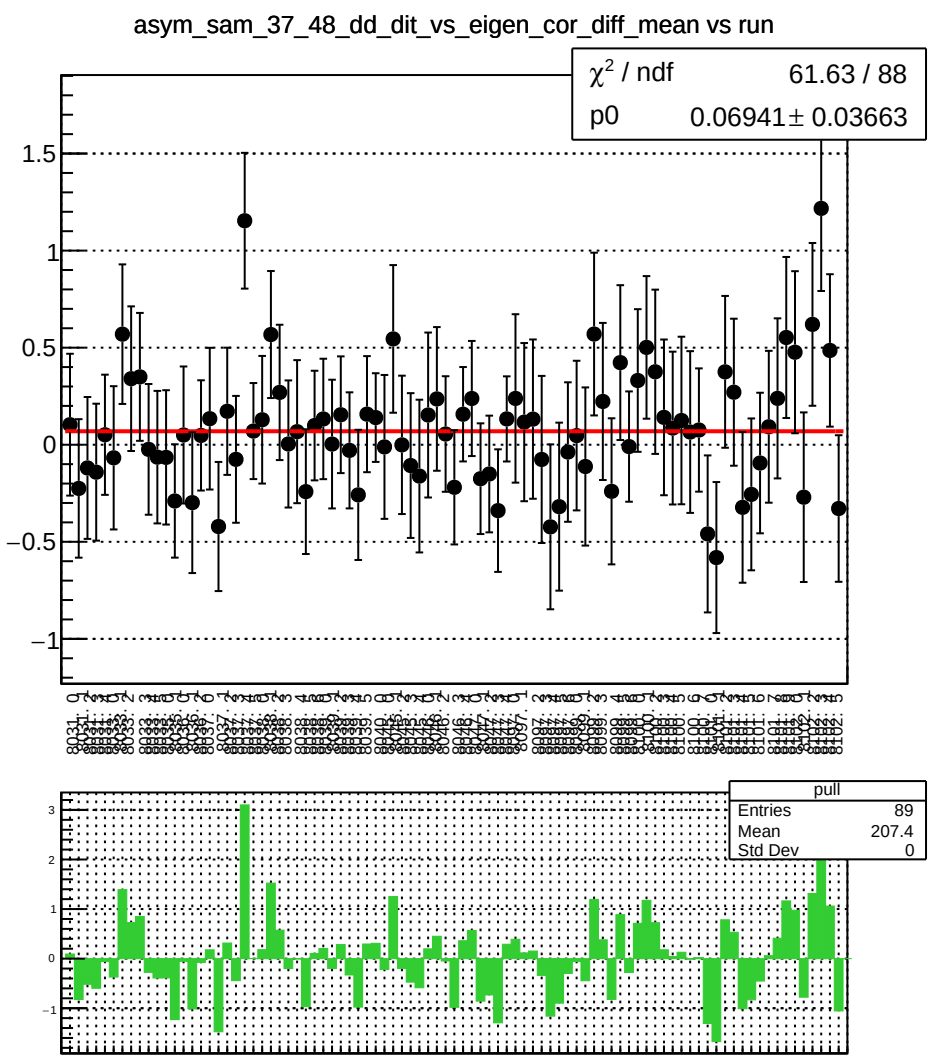

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 102 / 88
p0 −2.533e−14 ± 3.548e−14
pull
Entries 89
Mean −94.08
Std Dev 0
pull1D
Entries 89
Mean 0.04052
Std Dev 1.07

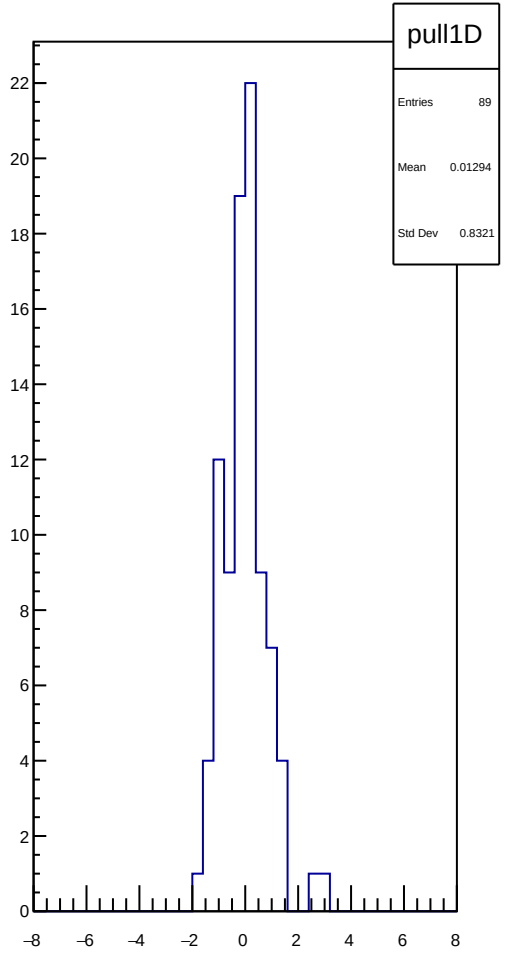

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.897e+05 / 88
p0 2.184e−11 ± 2.509e−14
0.05
0.04
0.03
0.02
0.01
0

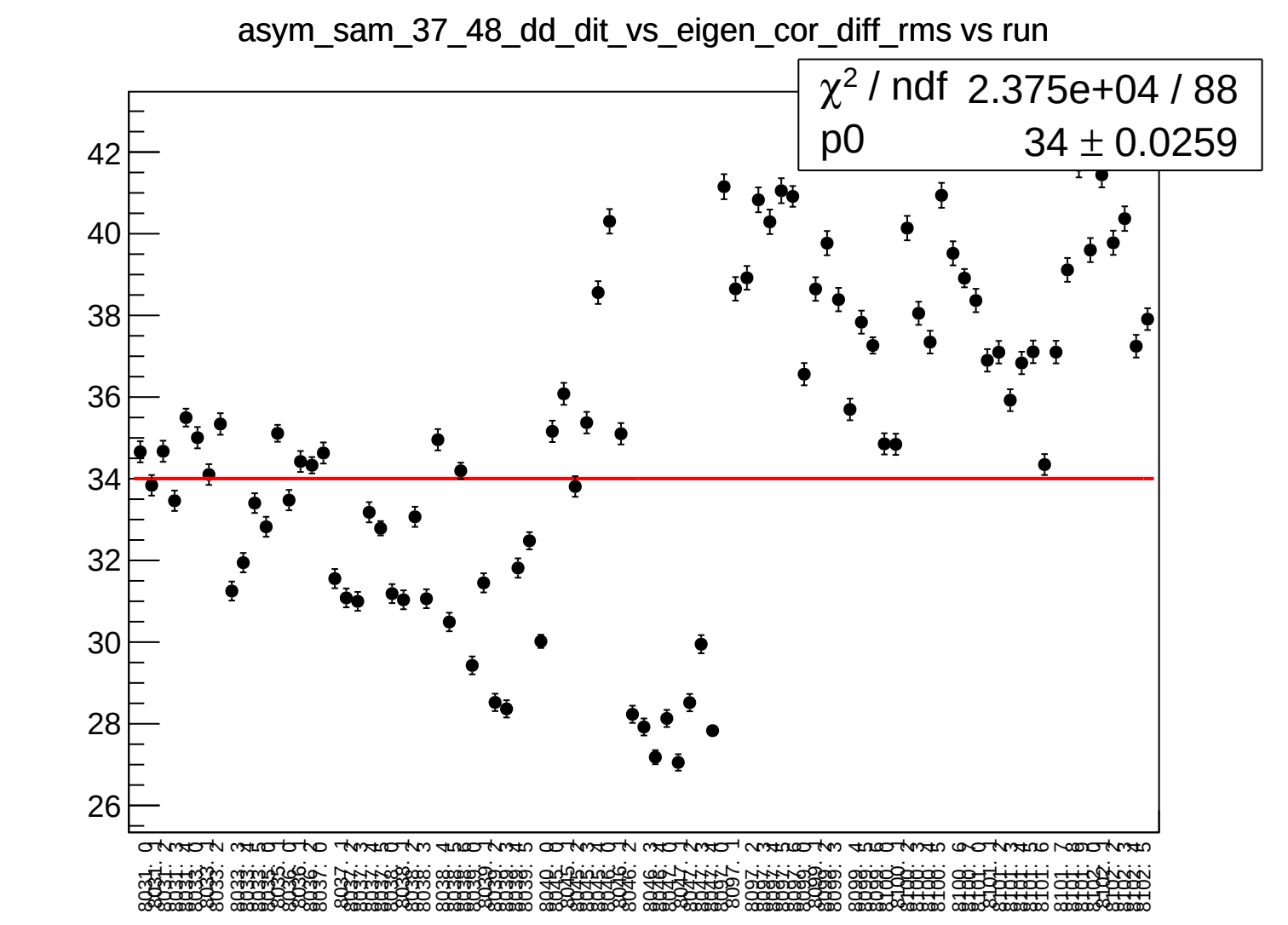

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 61.63 / 88
p0 0.06941 ± 0.03663
pull
Entries 89
Mean 207.4
Std Dev 0

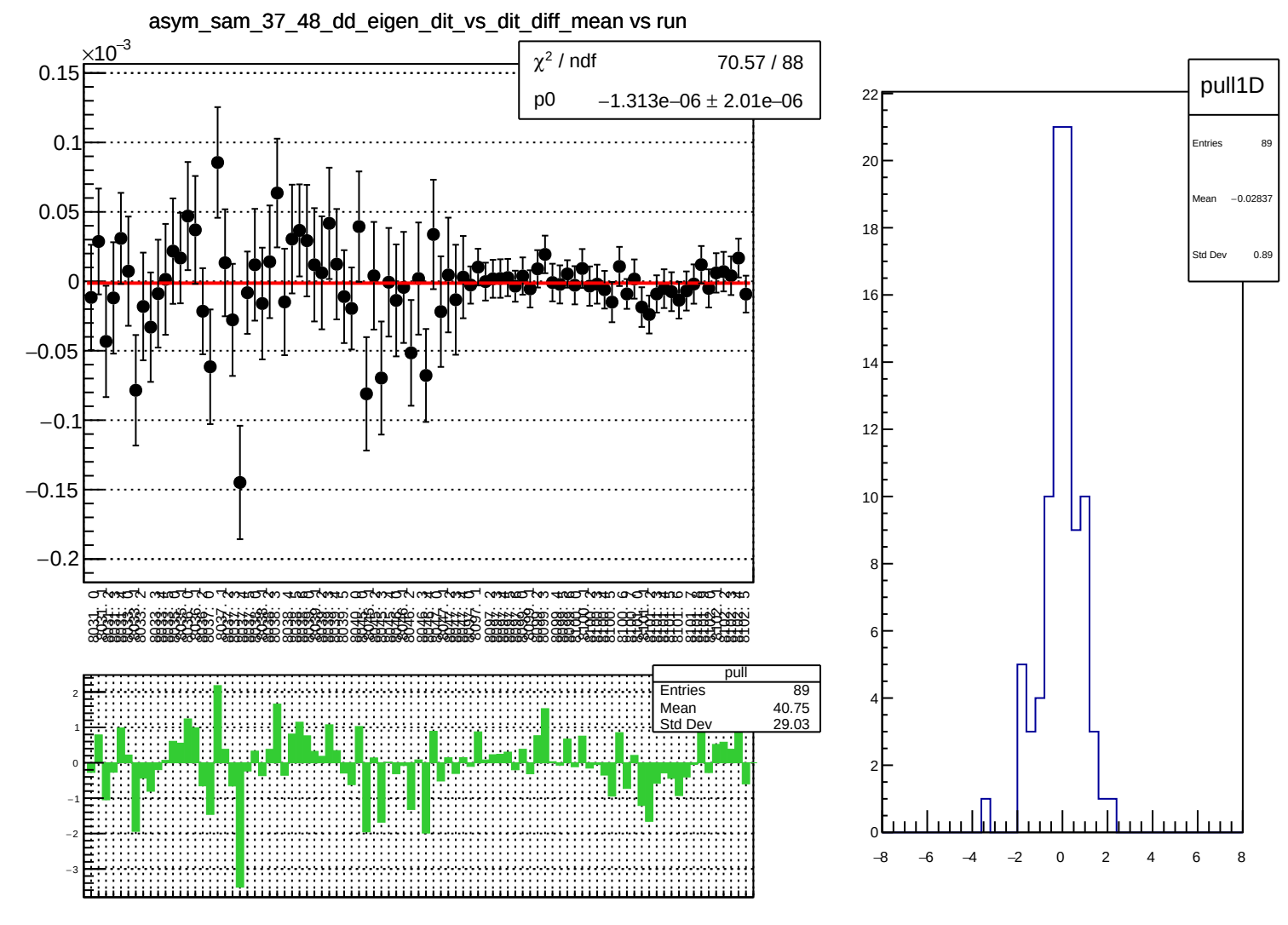

pull1D
Entries 89
Mean 0.01294
Std Dev 0.8321

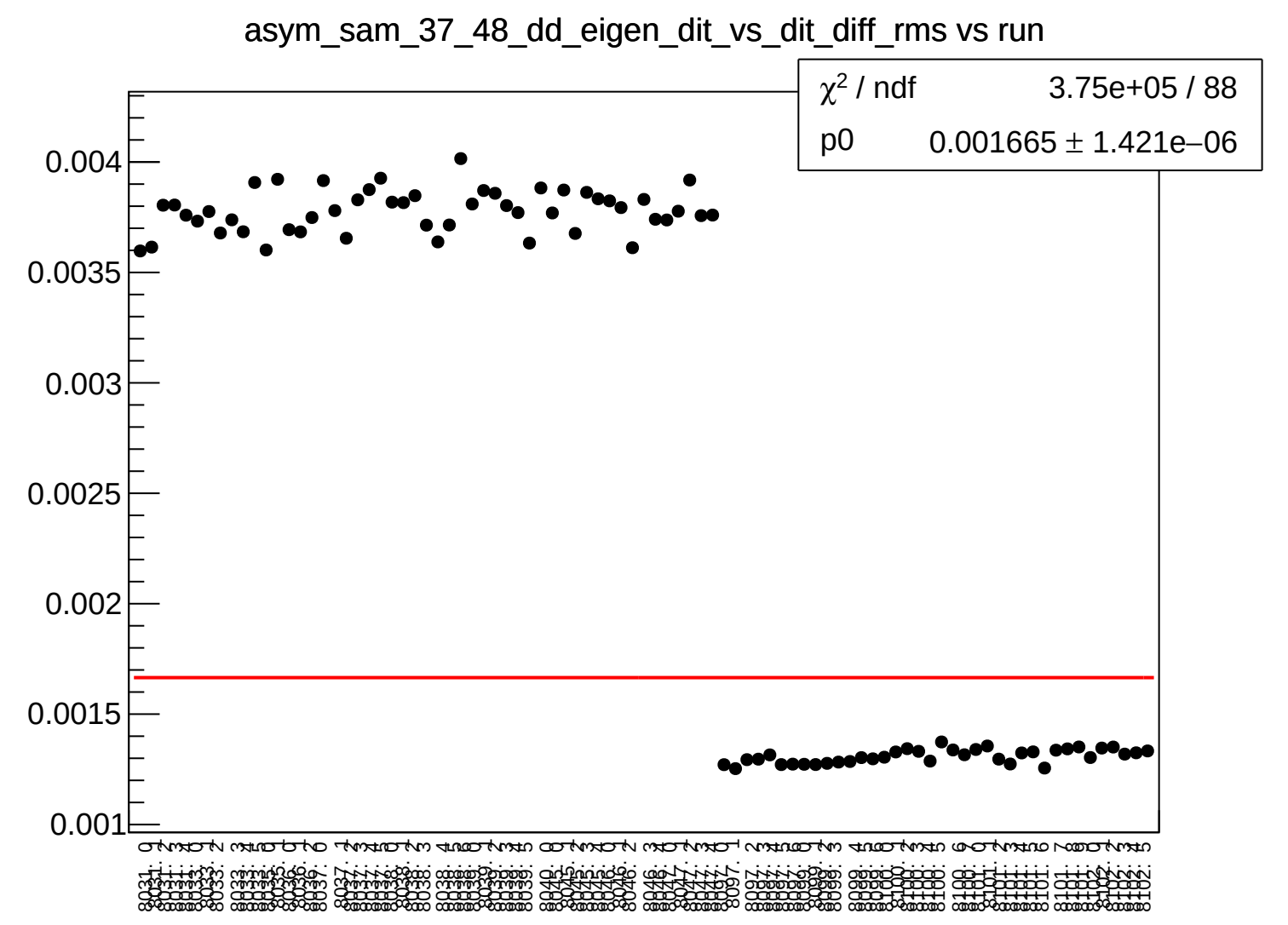

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.375e+04 / 88
p0 34 ± 0.0259
42
40
38
36
34
32
30
28
26

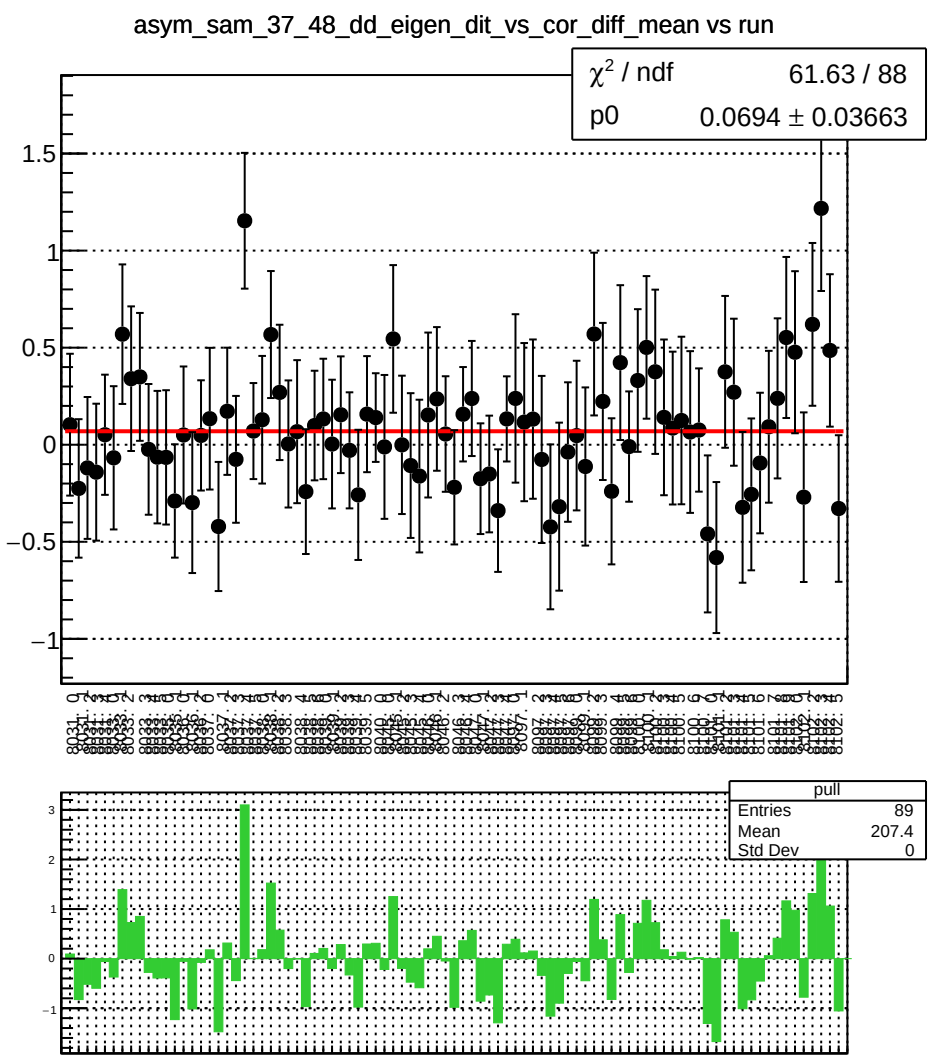

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 61.63 / 88
p0 0.06941 ± 0.03663
pull
Entries 89
Mean 207.4
Std Dev 0

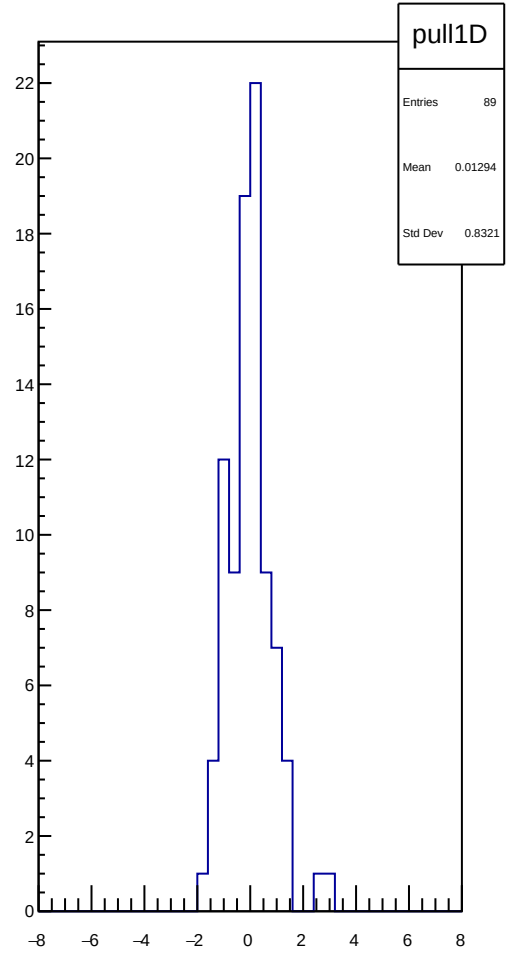

pull1D
Entries 89
Mean 0.01294
Std Dev 0.8321

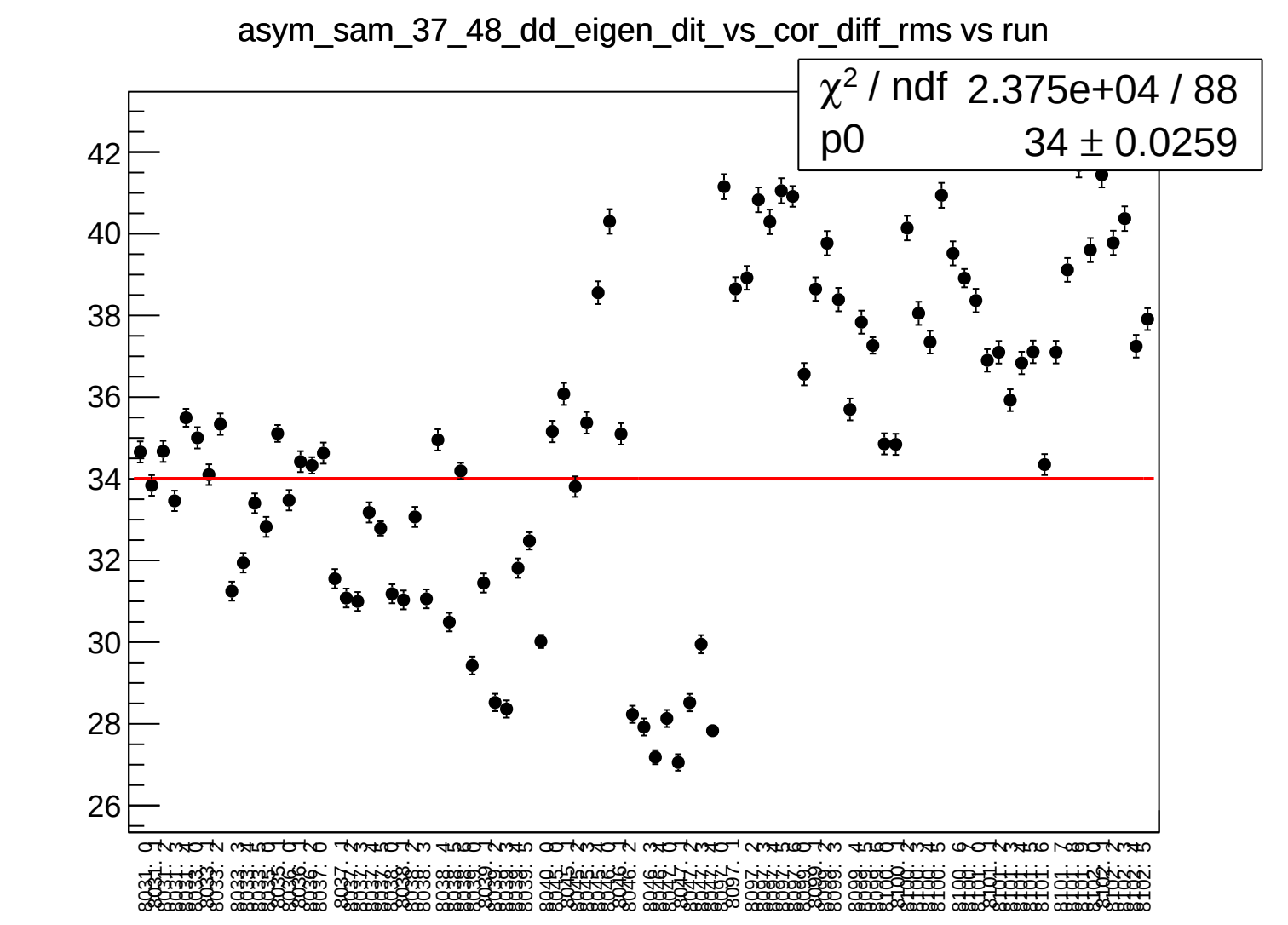

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.375e+04 / 88
p0 34 ± 0.0259
42
40
38
36
34
32
30
28
26

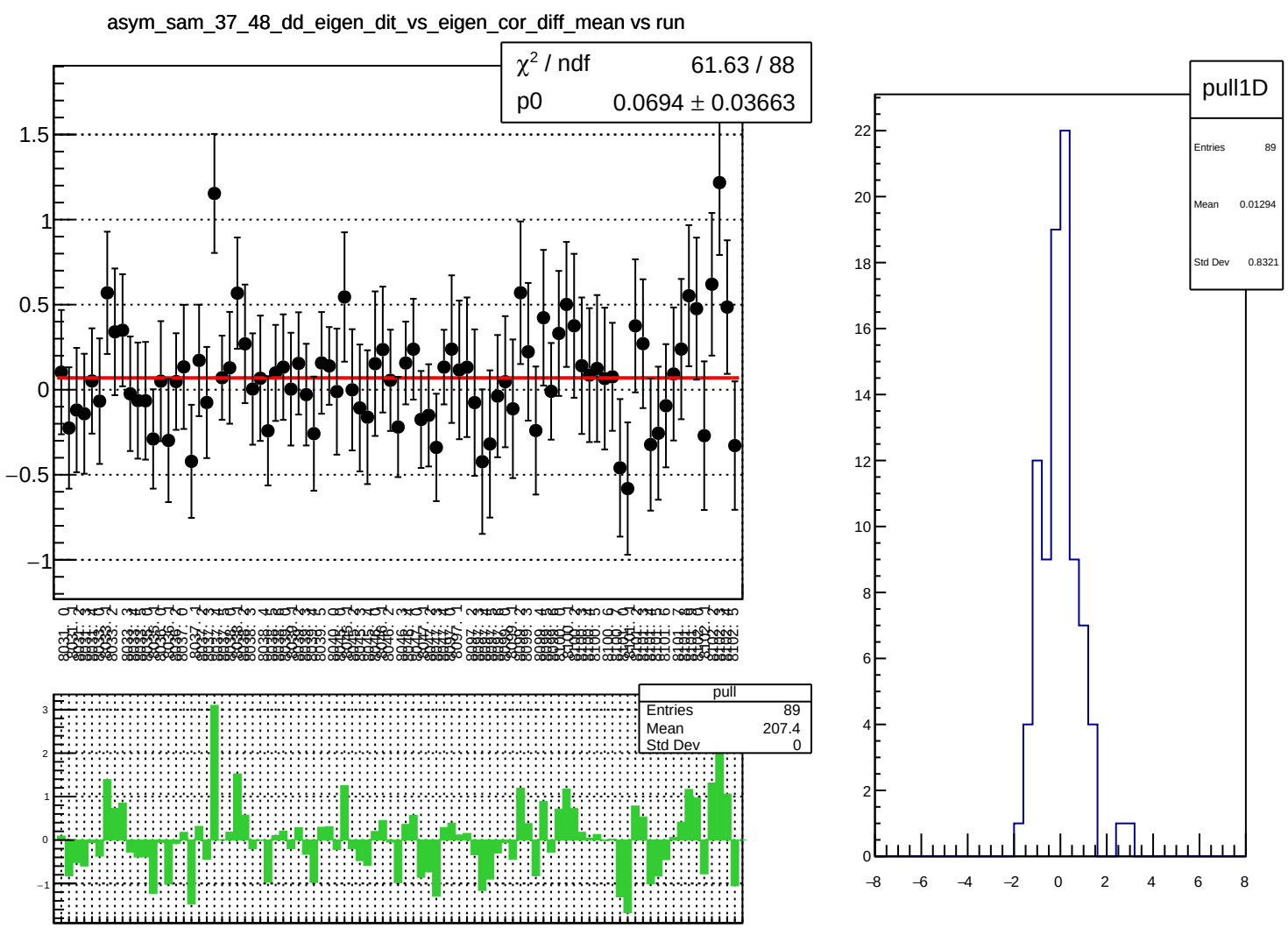

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 70.57 / 88
p0 −1.313e−06 ± 2.01e−06
pull
Entries 89
Mean 40.75
Std Dev 29.03
pull1D
Entries 89
Mean −0.02837
Std Dev 0.89

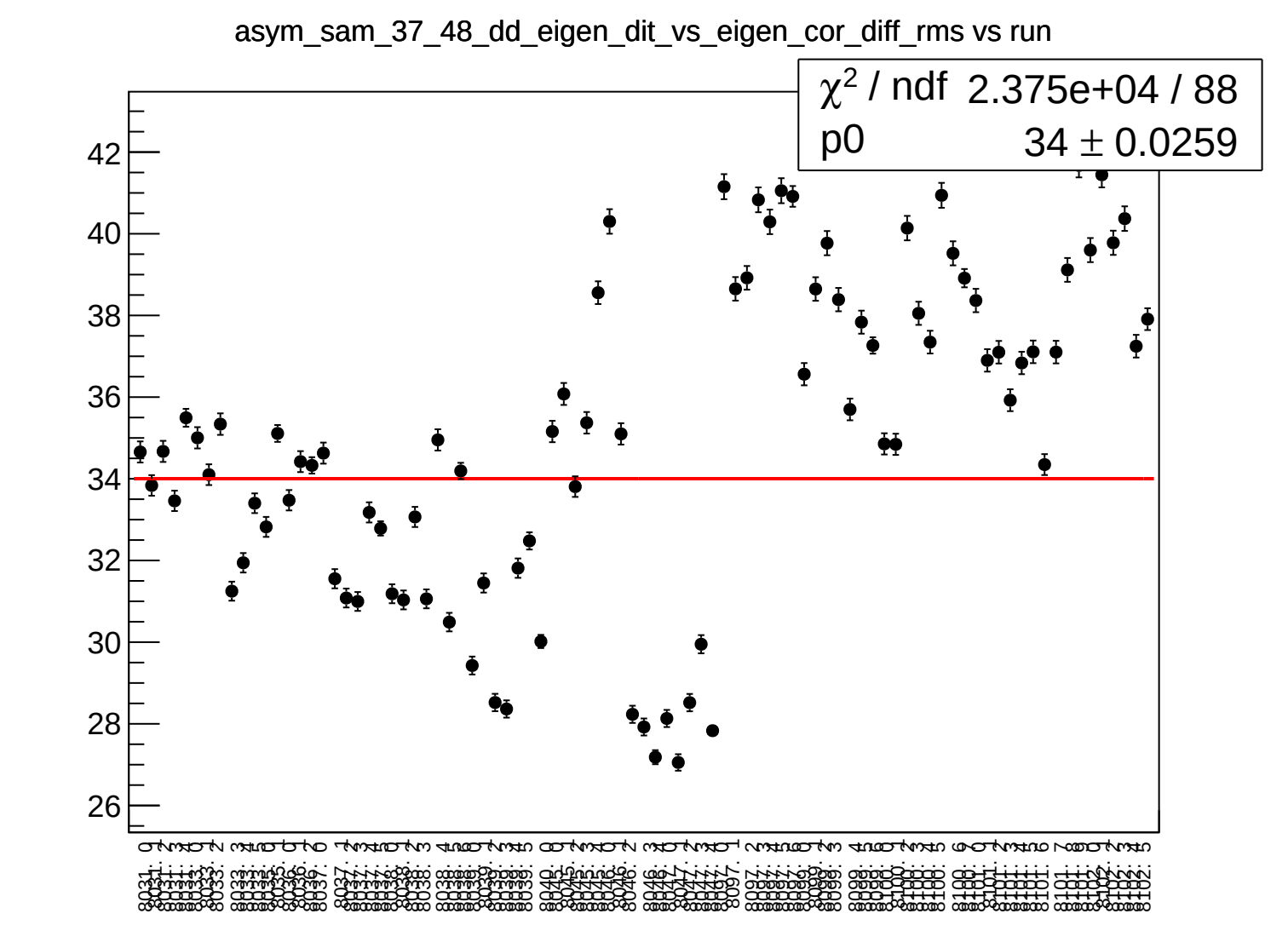

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.75e+05 / 88
p0 0.001665 ± 1.421e−06
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

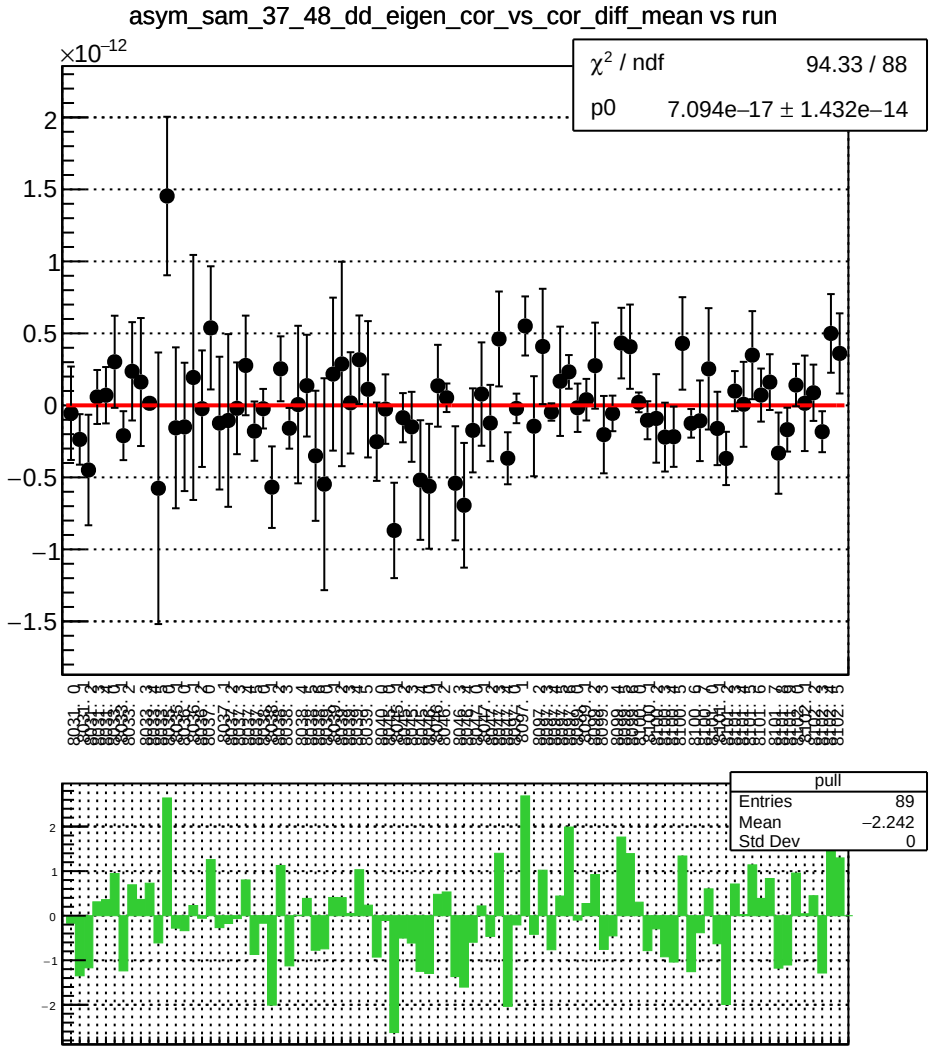

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 61.63 / 88
p0 0.0694 ± 0.03663
pull
Entries 89
Mean 207.4
Std Dev 0

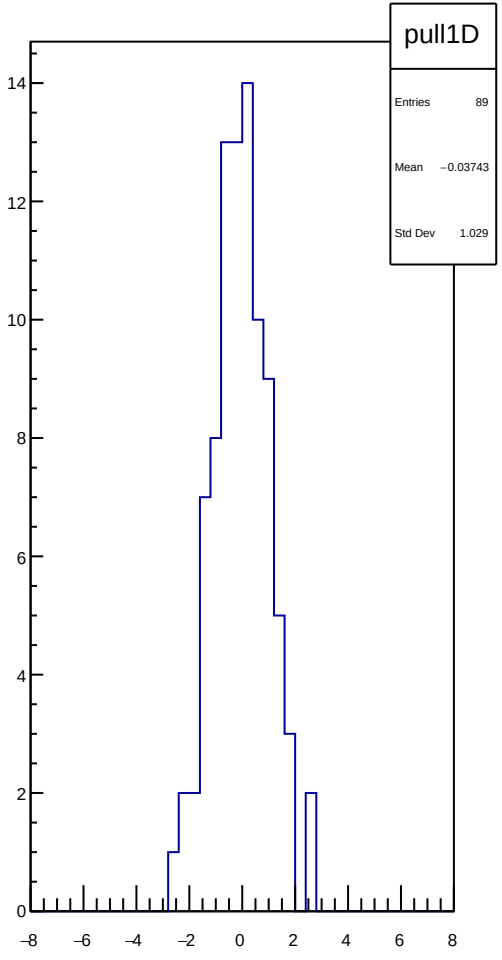

pull1D
Entries 89
Mean 0.01294
Std Dev 0.8321

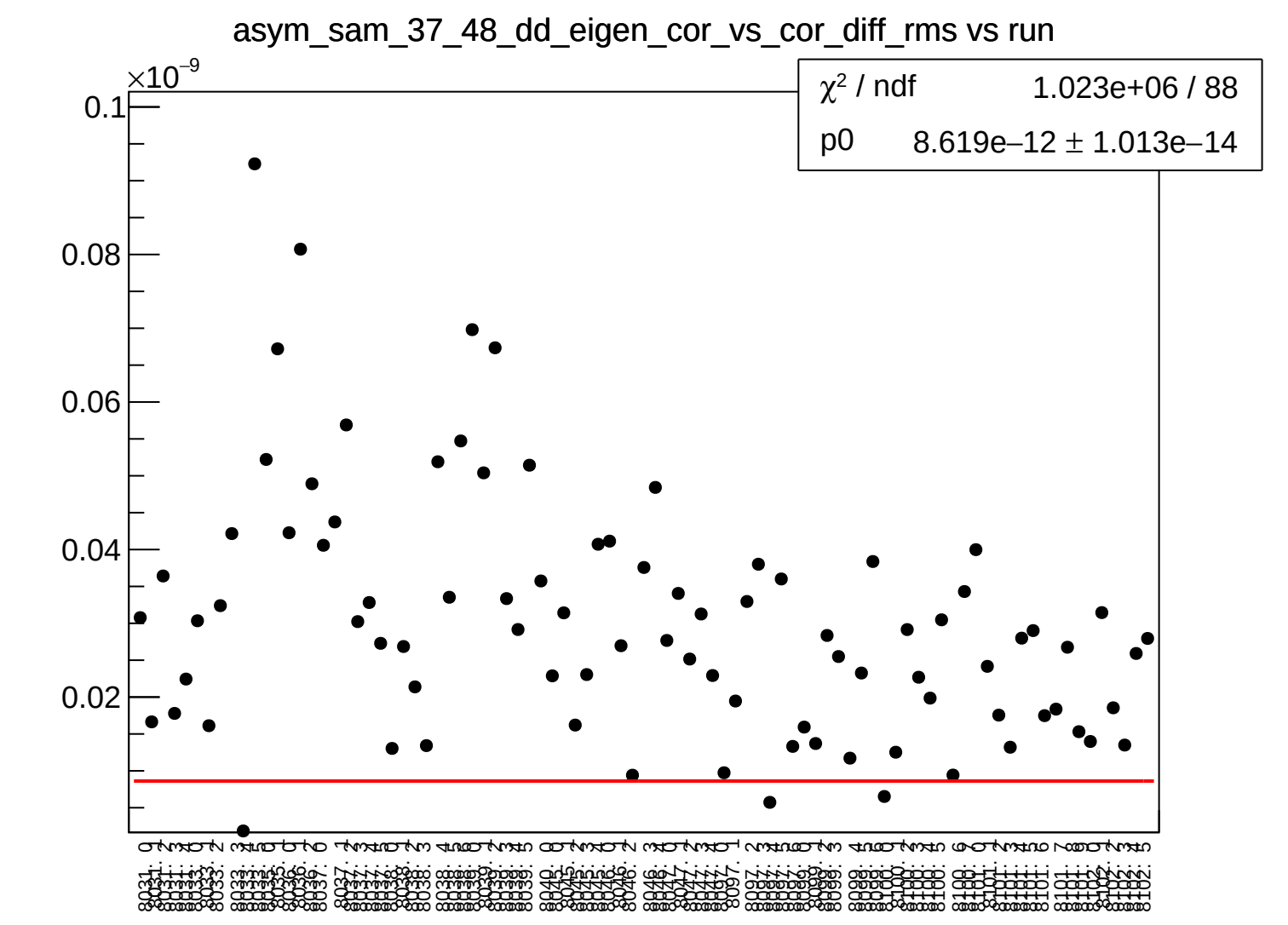

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.375e+04 / 88
p0 34 ± 0.0259
42
40
38
36
34
32
30
28
26

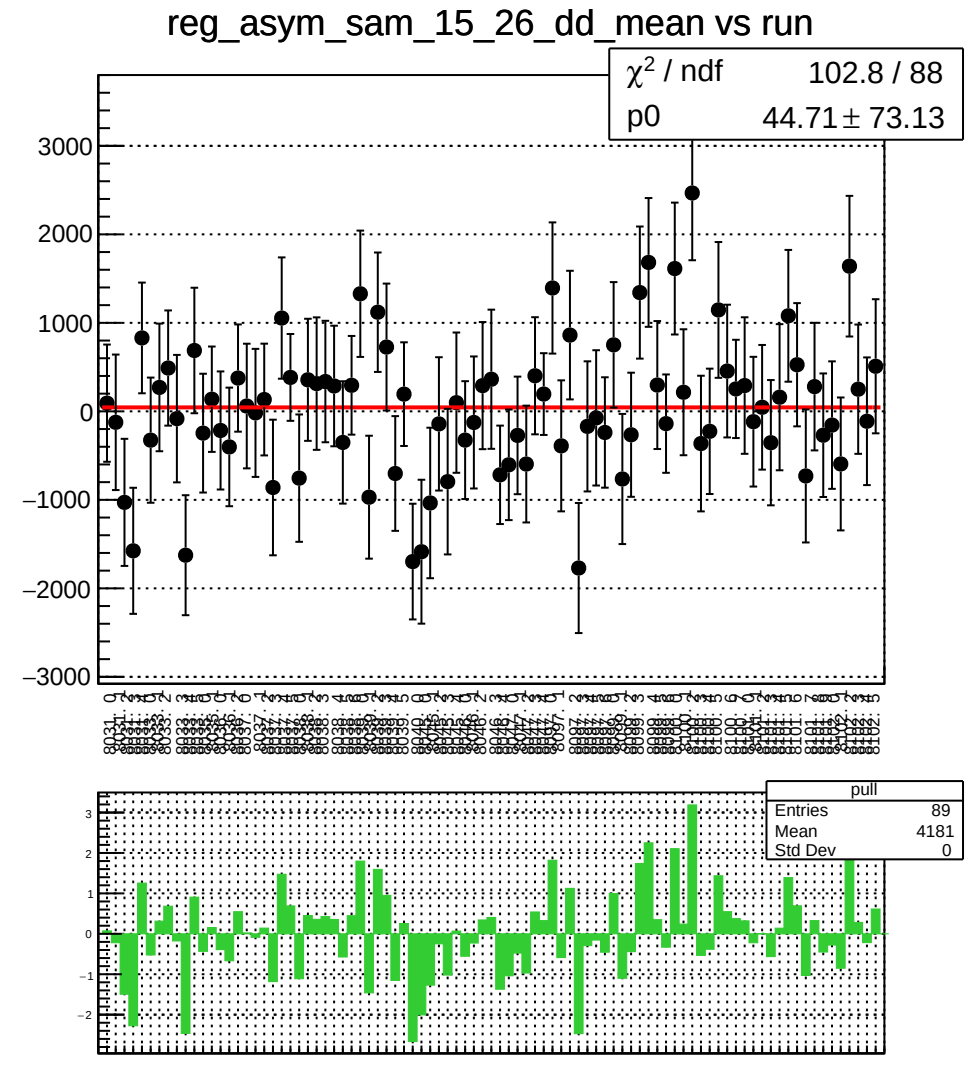

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 61.63 / 88
p0 0.0694 ± 0.03663
pull
Entries 89
Mean 207.4
Std Dev 0
pull1D
Entries 89
Mean 0.01294
Std Dev 0.8321

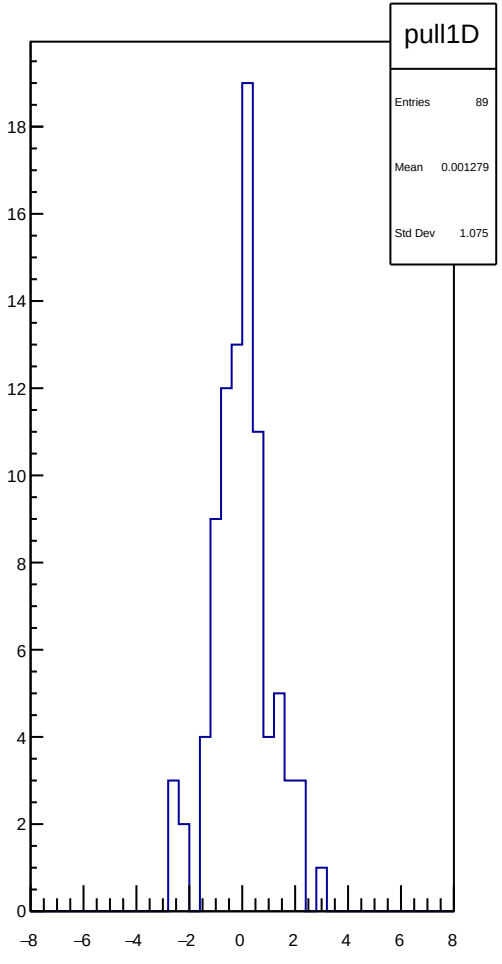

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.375e+04 / 88
p0 34 ± 0.0259
42
40
38
36
34
32
30
28
26

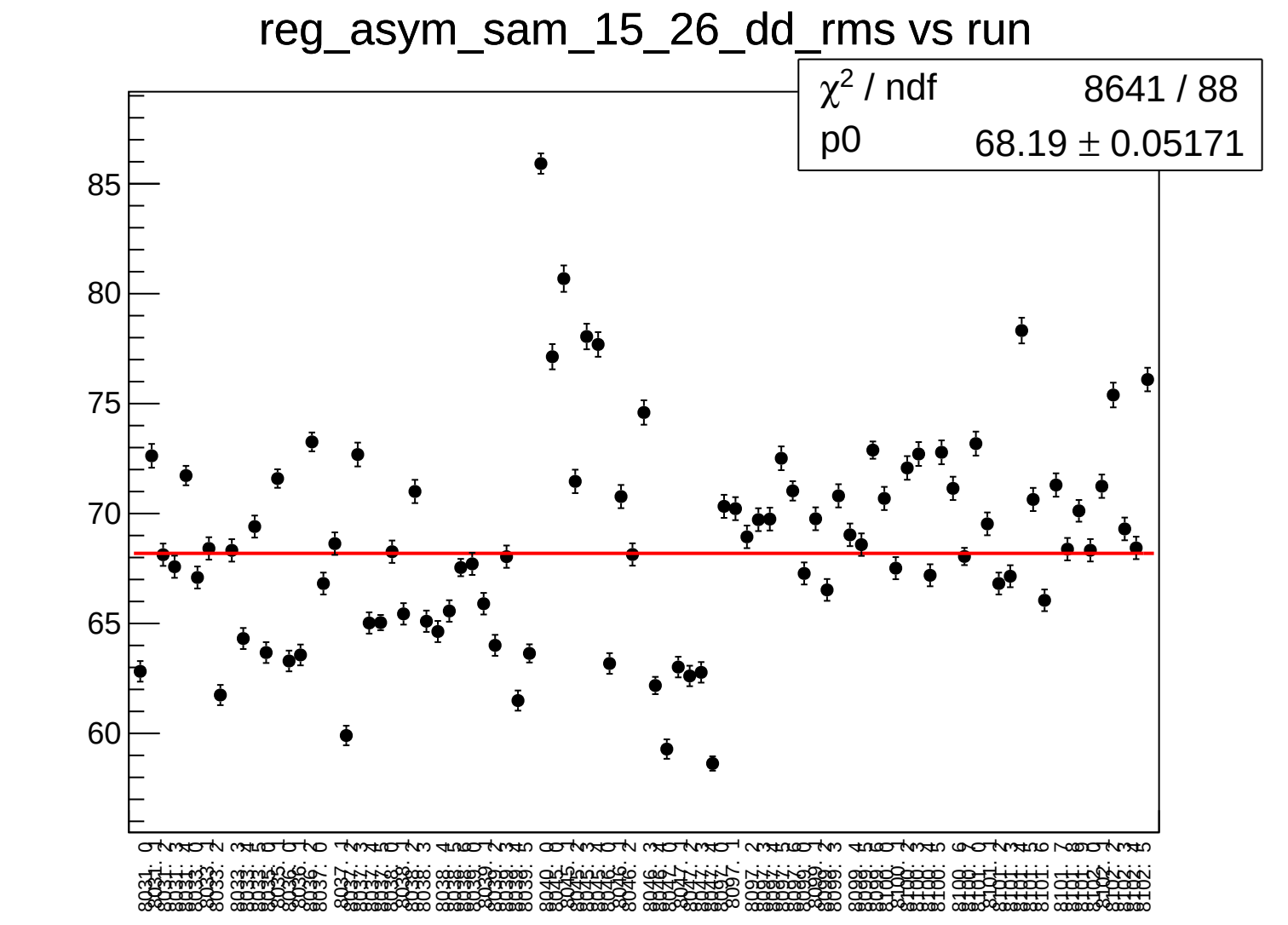

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.33 / 88
p0 7.094e−17 ± 1.432e−14
pull
Entries 89
Mean −2.242
Std Dev 0

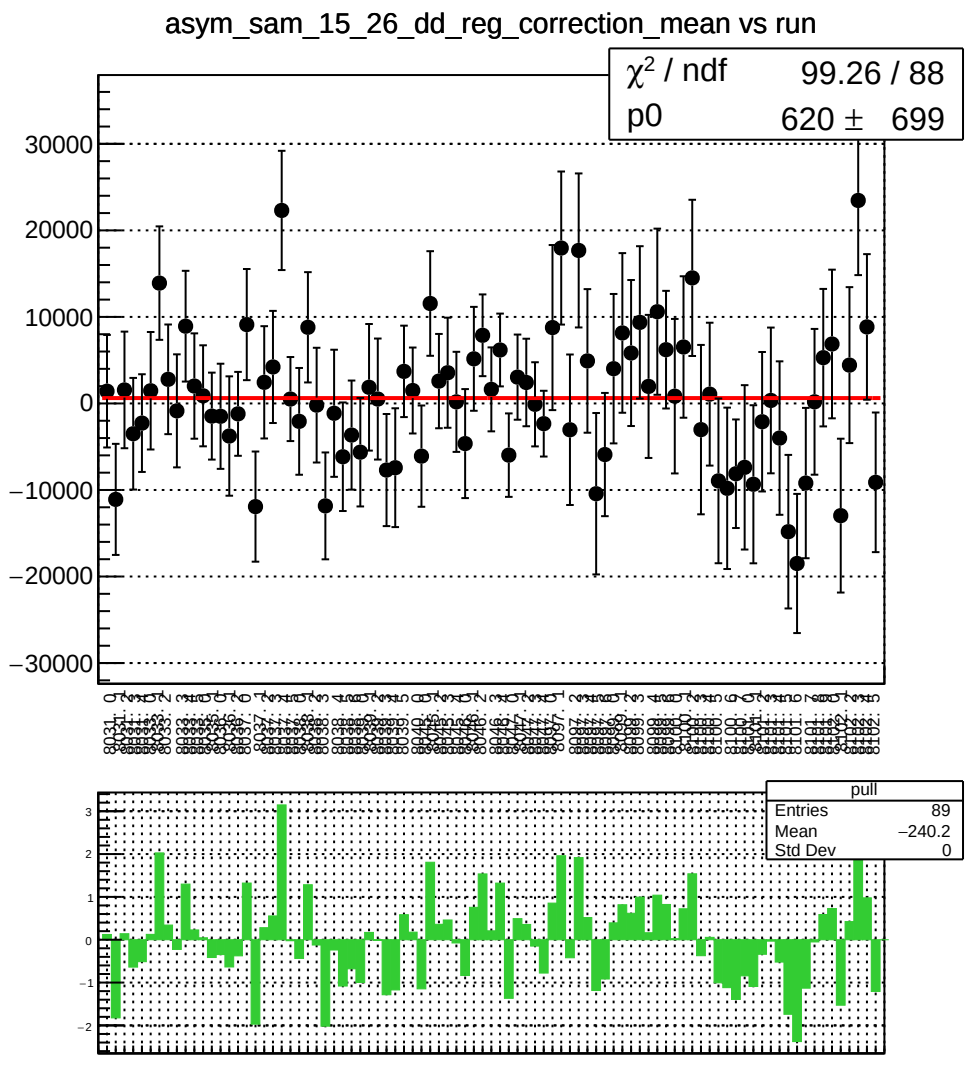

pull1D
Entries 89
Mean −0.03743
Std Dev 1.029

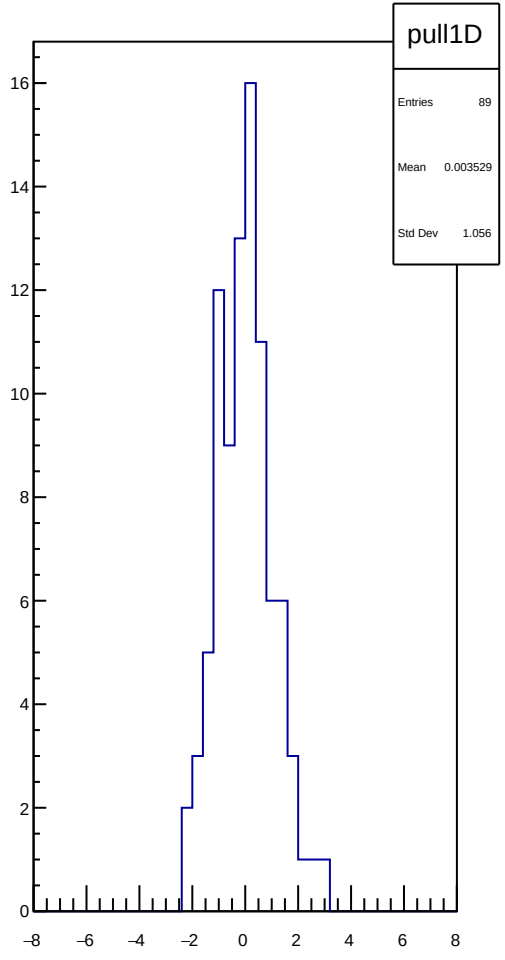

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.1
0.08
0.06
0.04
0.02
χ² / ndf 1.023e+06 / 88
p0 8.619e−12 ± 1.013e−14

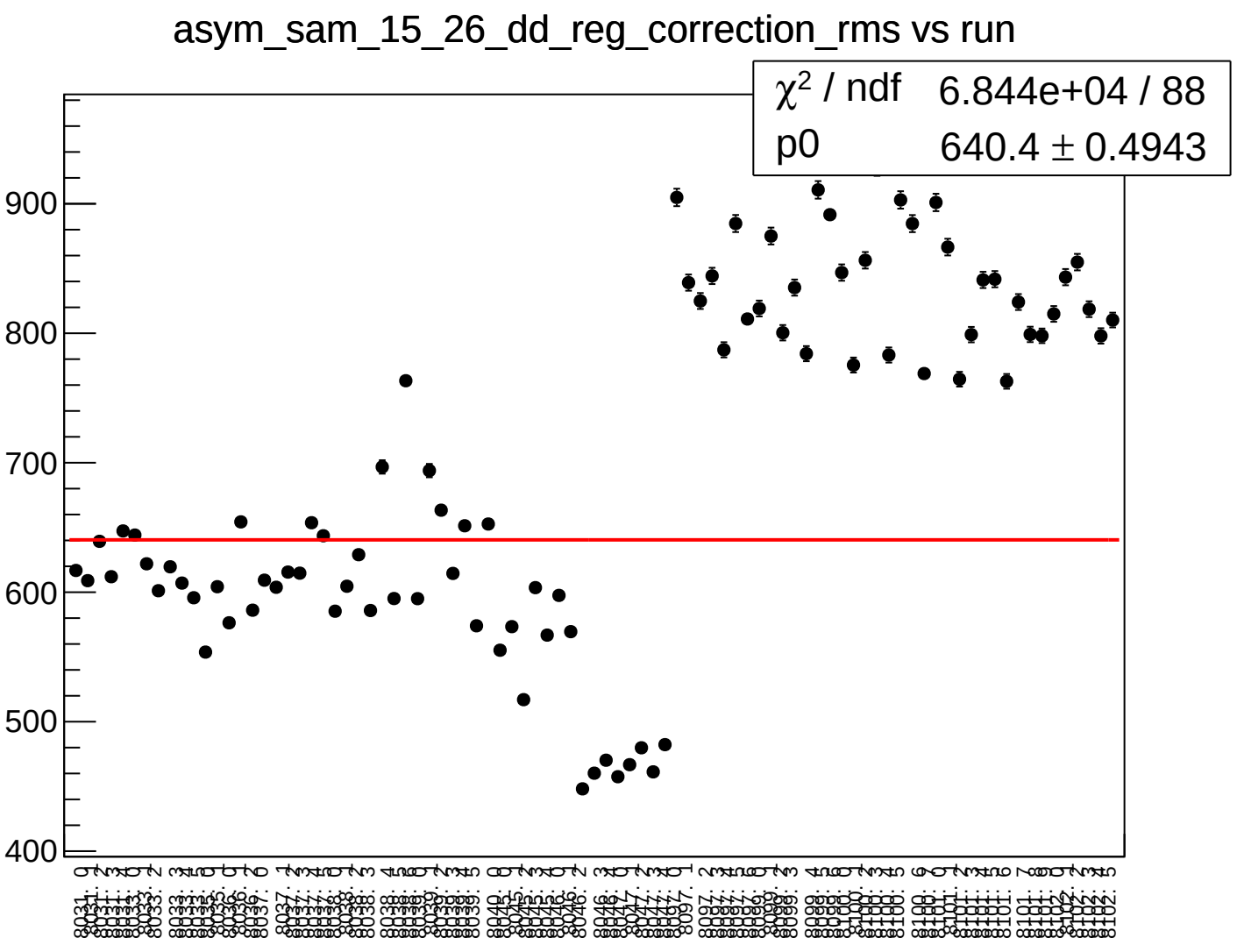

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 102.8 / 88
p0 44.71 ± 73.13
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean 4181
Std Dev 0
3
2
1
0
−1
−2

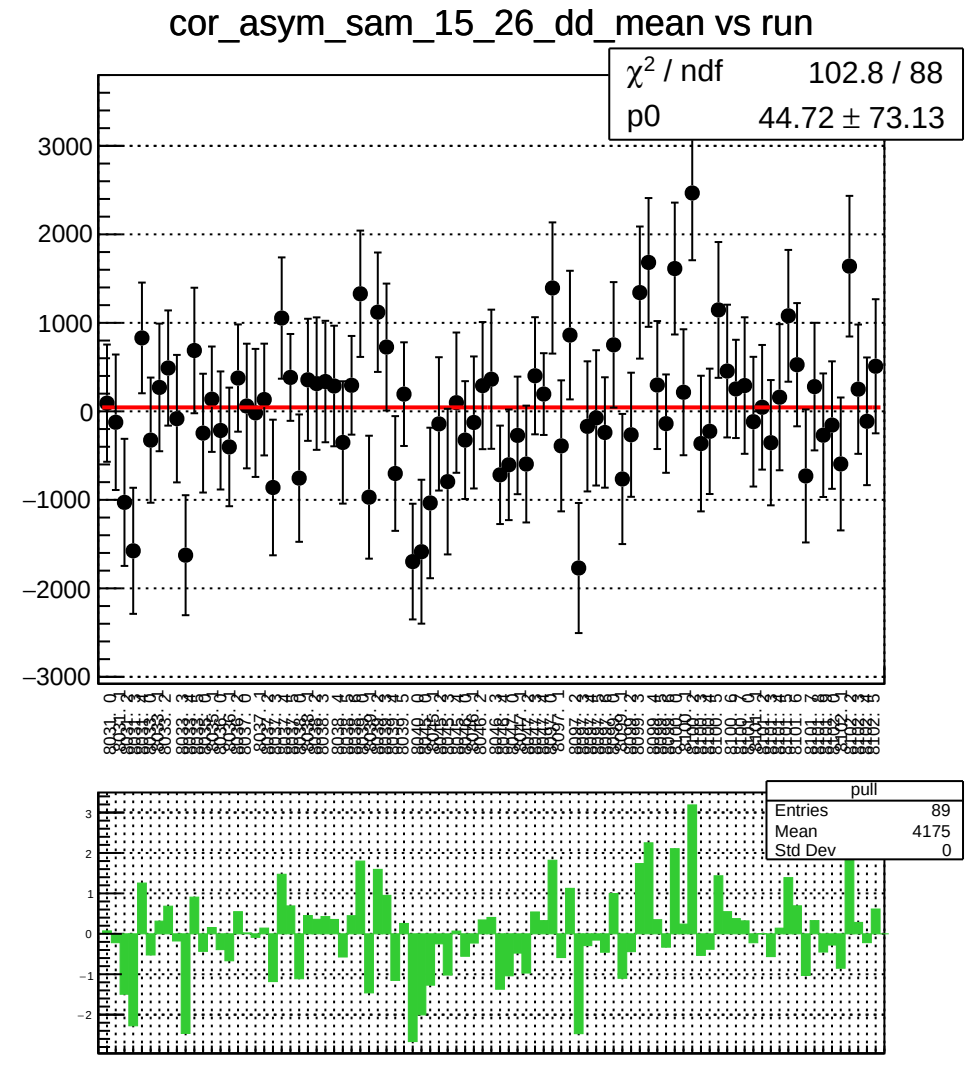

pull1D
Entries 89
Mean 0.001279
Std Dev 1.075
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

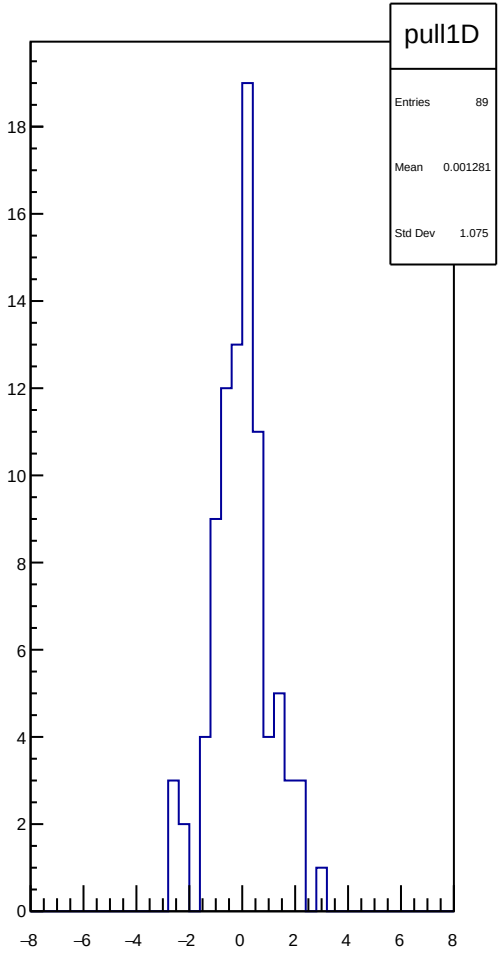

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 8641 / 88
p0 68.19 ± 0.05171
85
80
75
70
65
60

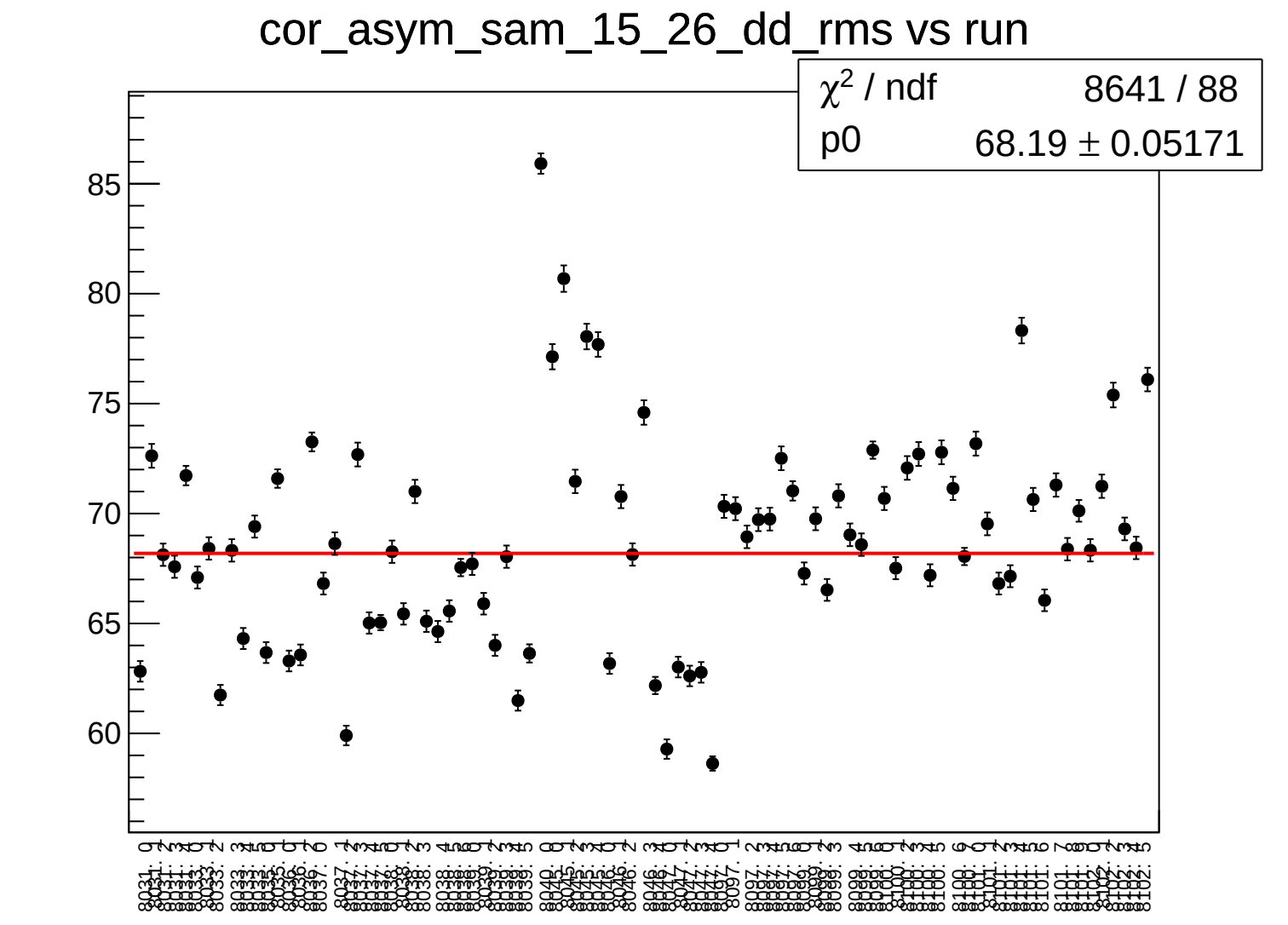

asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 99.26 / 88
p0 620 ± 699
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −240.2
Std Dev 0
3
2
1
0
−1
−2

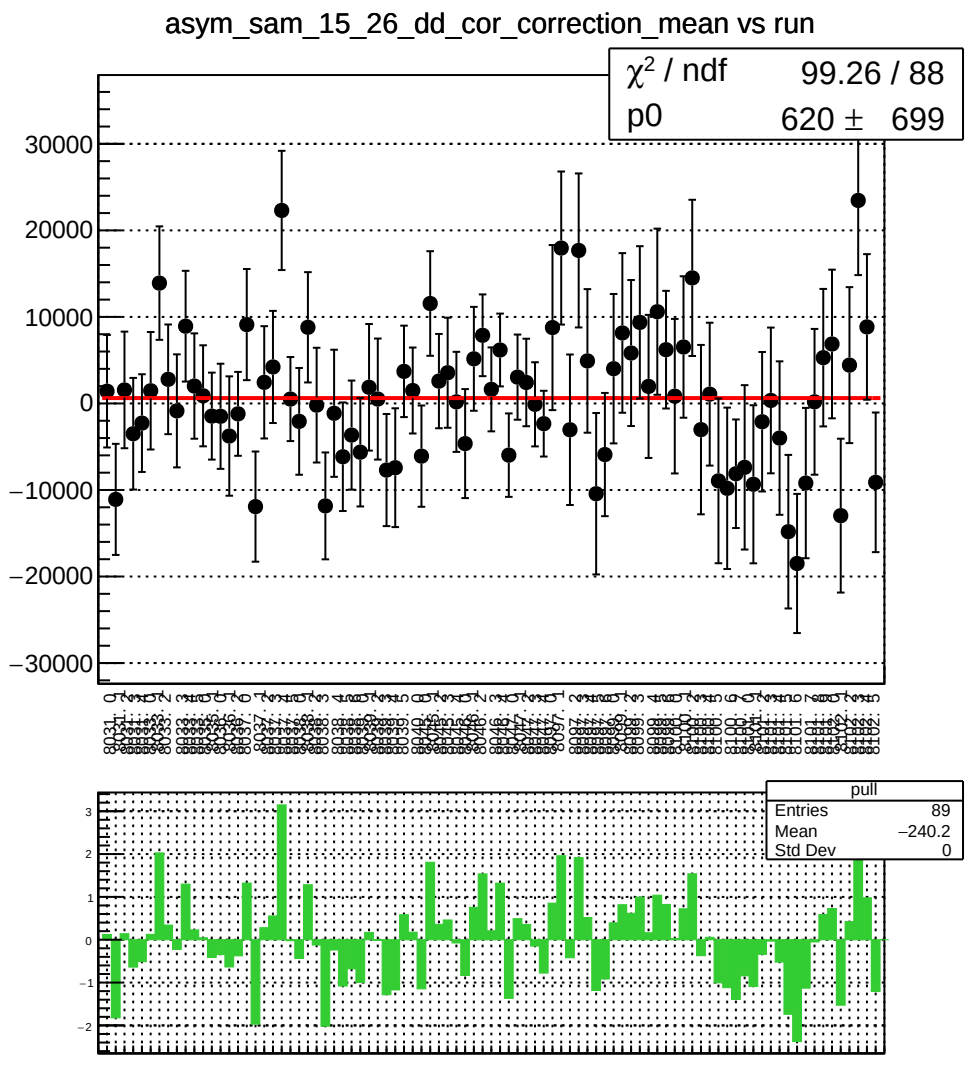

pull1D
Entries 89
Mean 0.003529
Std Dev 1.056
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

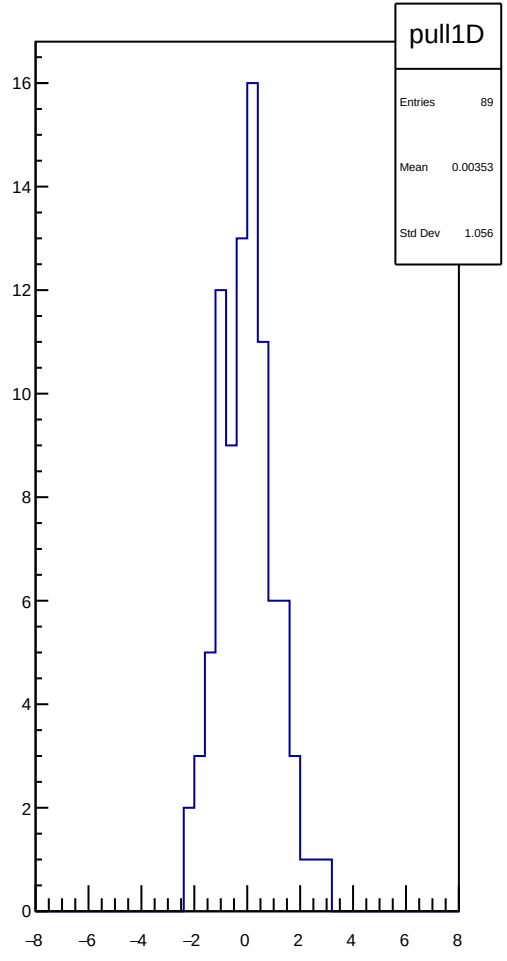

asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 6.844e+04 / 88
p0 640.4 ± 0.4943
900
800
700
600
500
400

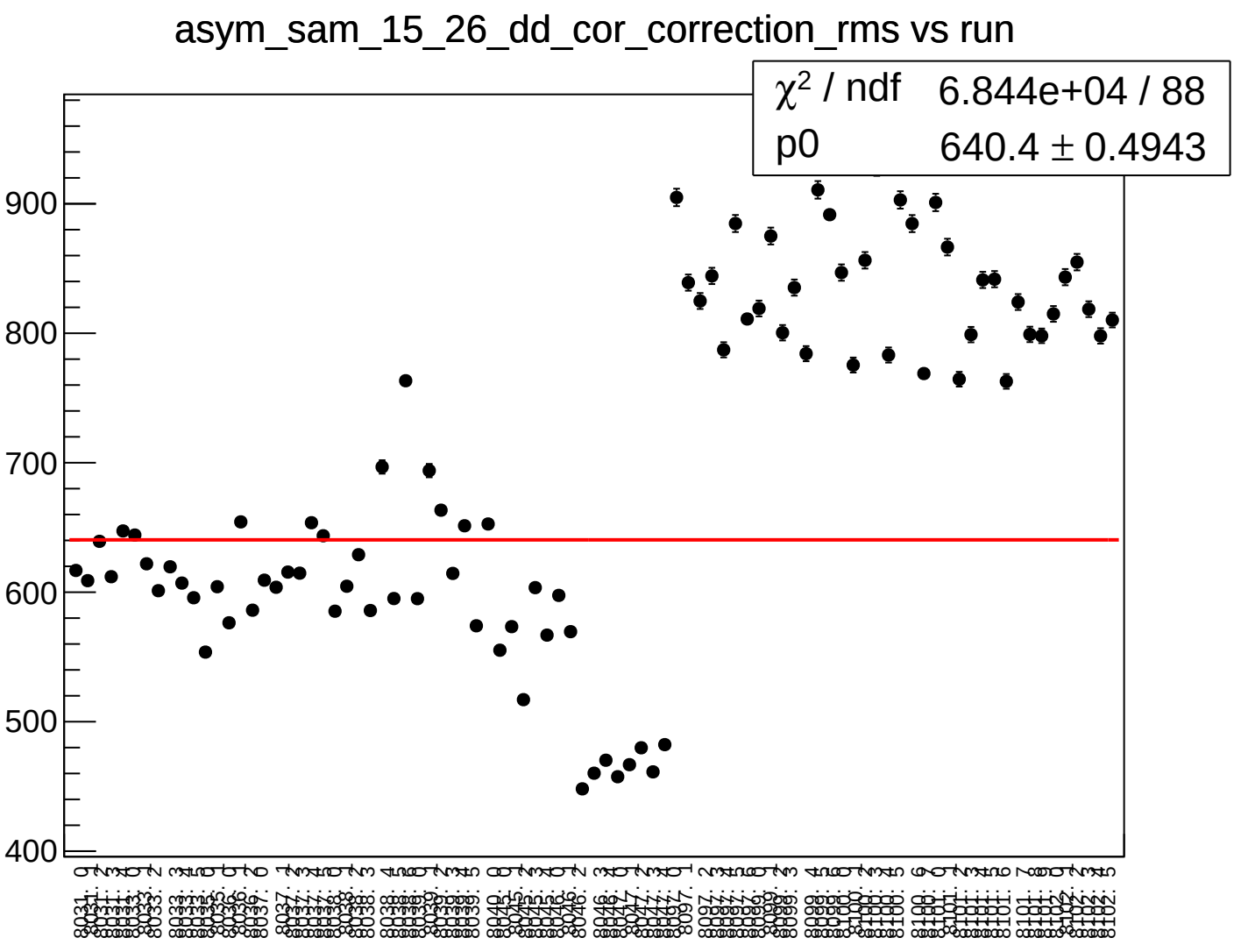

cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 102.8 / 88
p0 44.72 ± 73.13
pull
Entries 89
Mean 4175
Std Dev 0

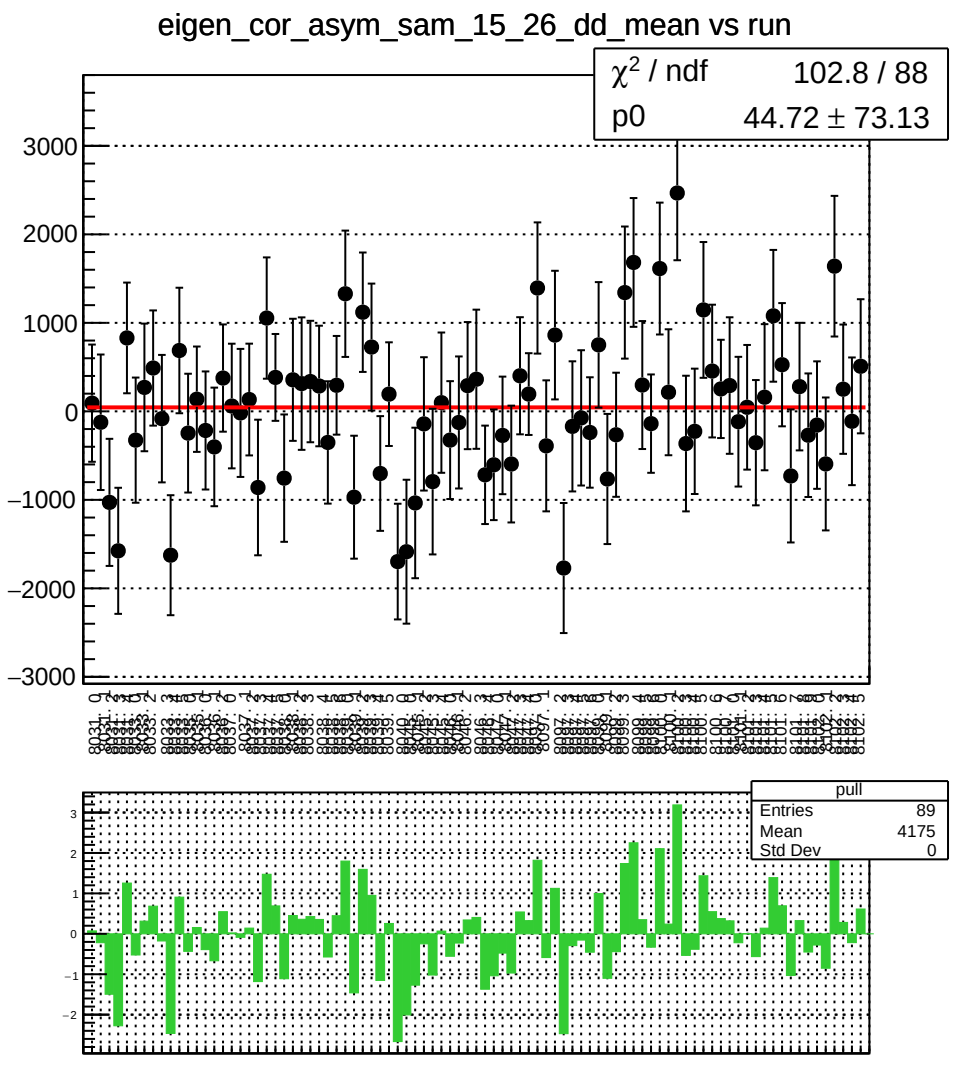

pull1D
Entries 89
Mean 0.001281
Std Dev 1.075

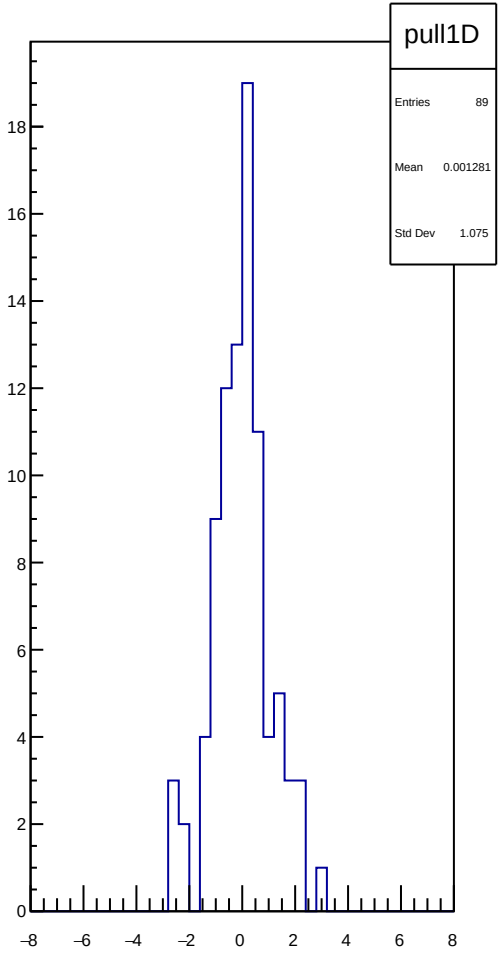

cor_asym_sam_15_26_dd_rms vs run
$\chi^2$ / ndf 8641 / 88
p0 68.19 ± 0.05171
85
80
75
70
65
60

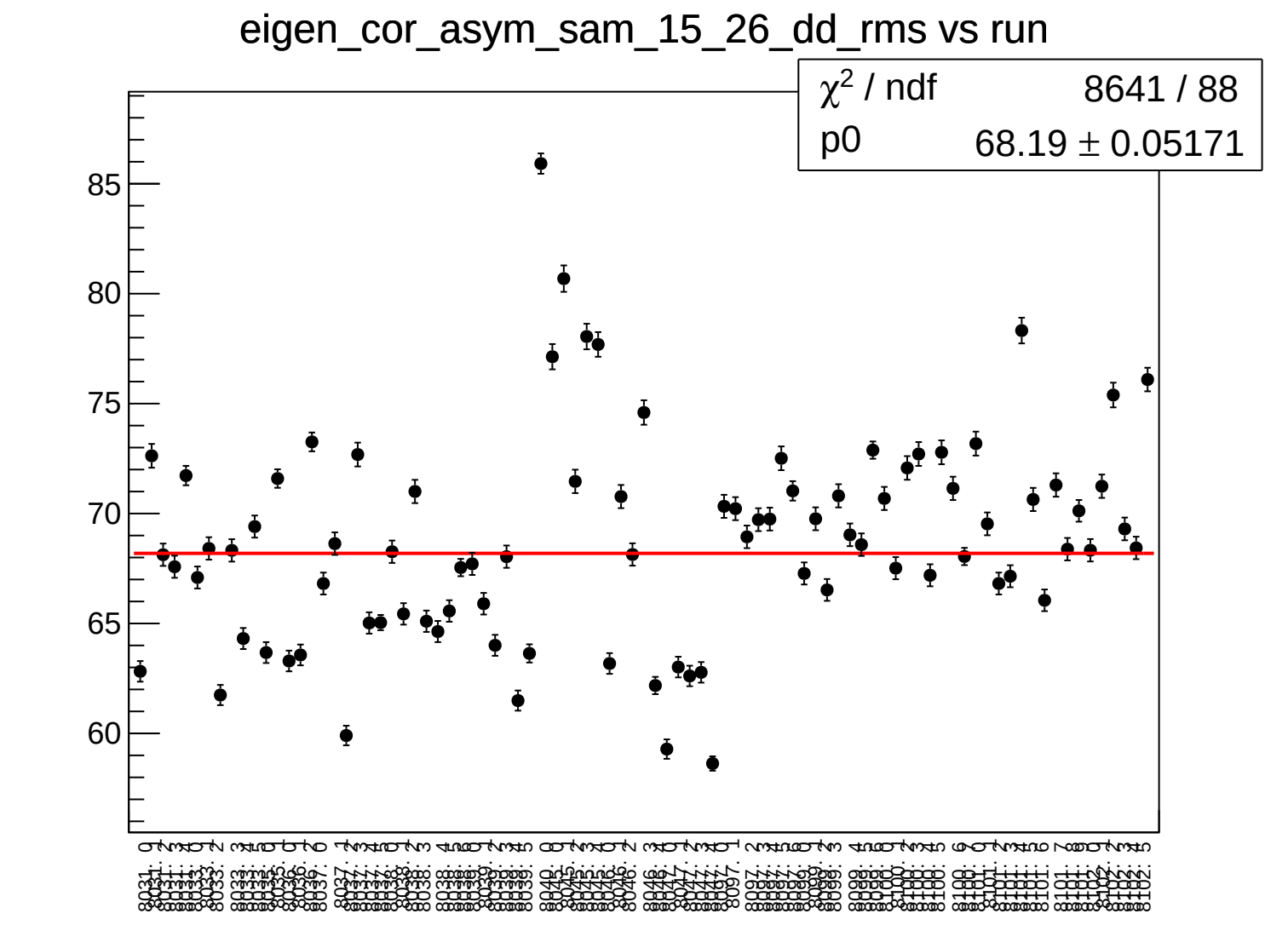

asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 99.26 / 88
p0 620 ± 699
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −240.2
Std Dev 0
3
2
1
0
−1
−2

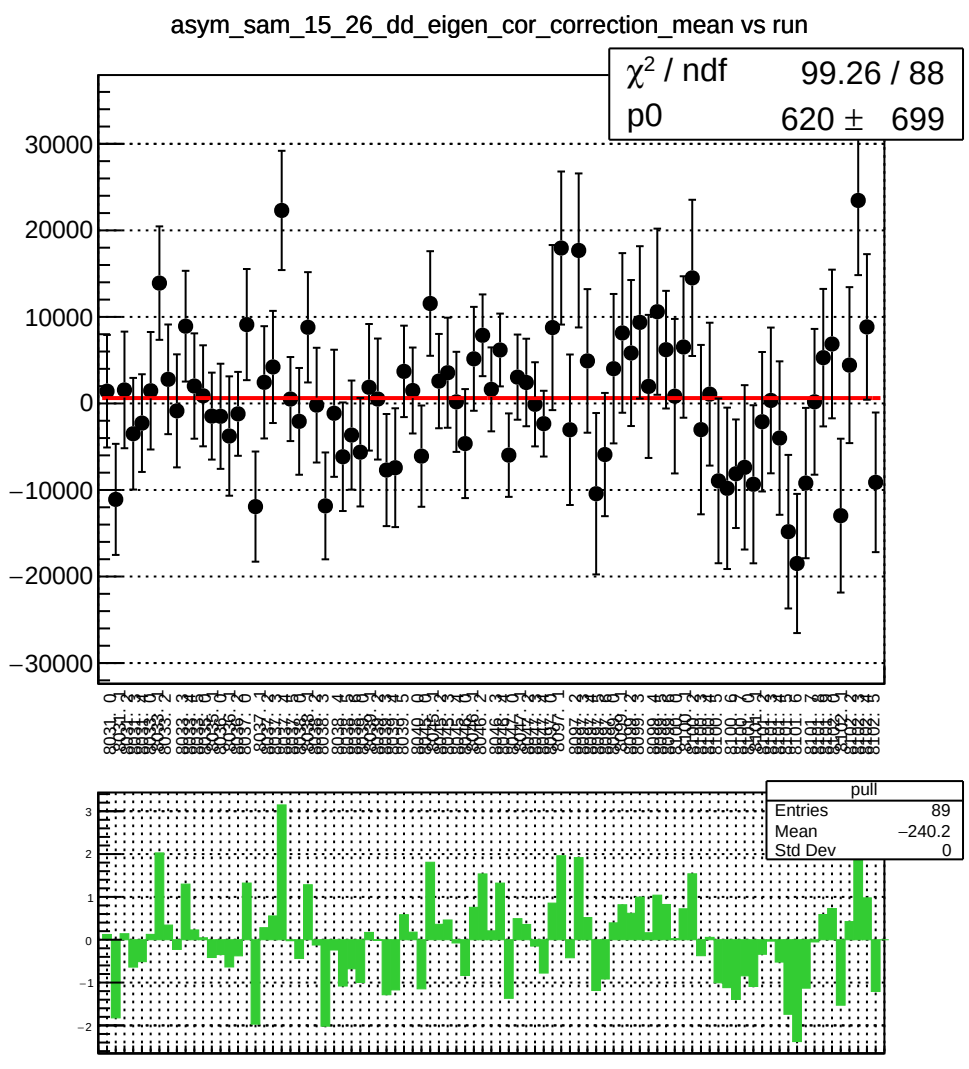

pull1D
Entries 89
Mean 0.00353
Std Dev 1.056
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

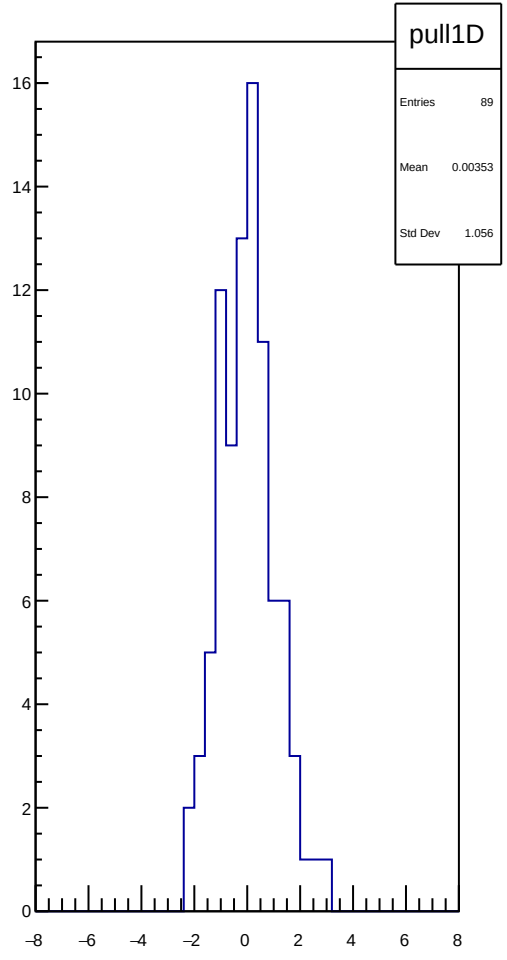

asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 6.844e+04 / 88
p0 640.4 ± 0.4943
900
800
700
600
500
400


eigen_cor_asym_sam_15_26_dd_mean vs run
$\chi^2$ / ndf 102.8 / 88
p0 44.72 ± 73.13
pull
Entries 89
Mean 4175
Std Dev 0


pull1D
Entries 89
Mean 0.001281
Std Dev 1.075


eigen_cor_asym_sam_15_26_dd_rms vs run
$\chi^2$ / ndf 8641 / 88
p0 68.19 ± 0.05171
85
80
75
70
65
60


asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 99.26 / 88
p0 620 ± 699
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −240.2
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 89
Mean 0.00353
Std Dev 1.056
16
14
12
10
8
6
4
2
0
−8
−6
−4
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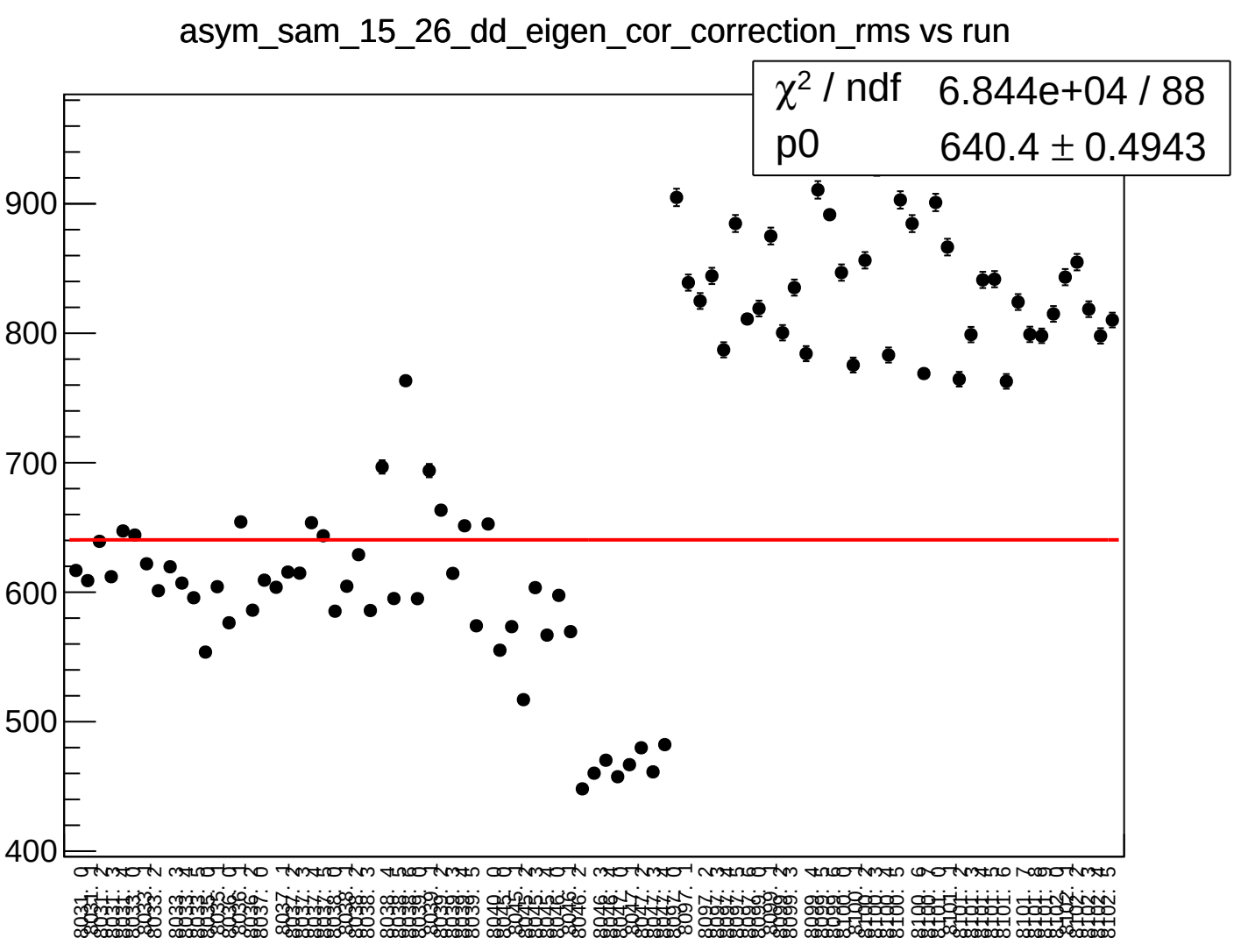
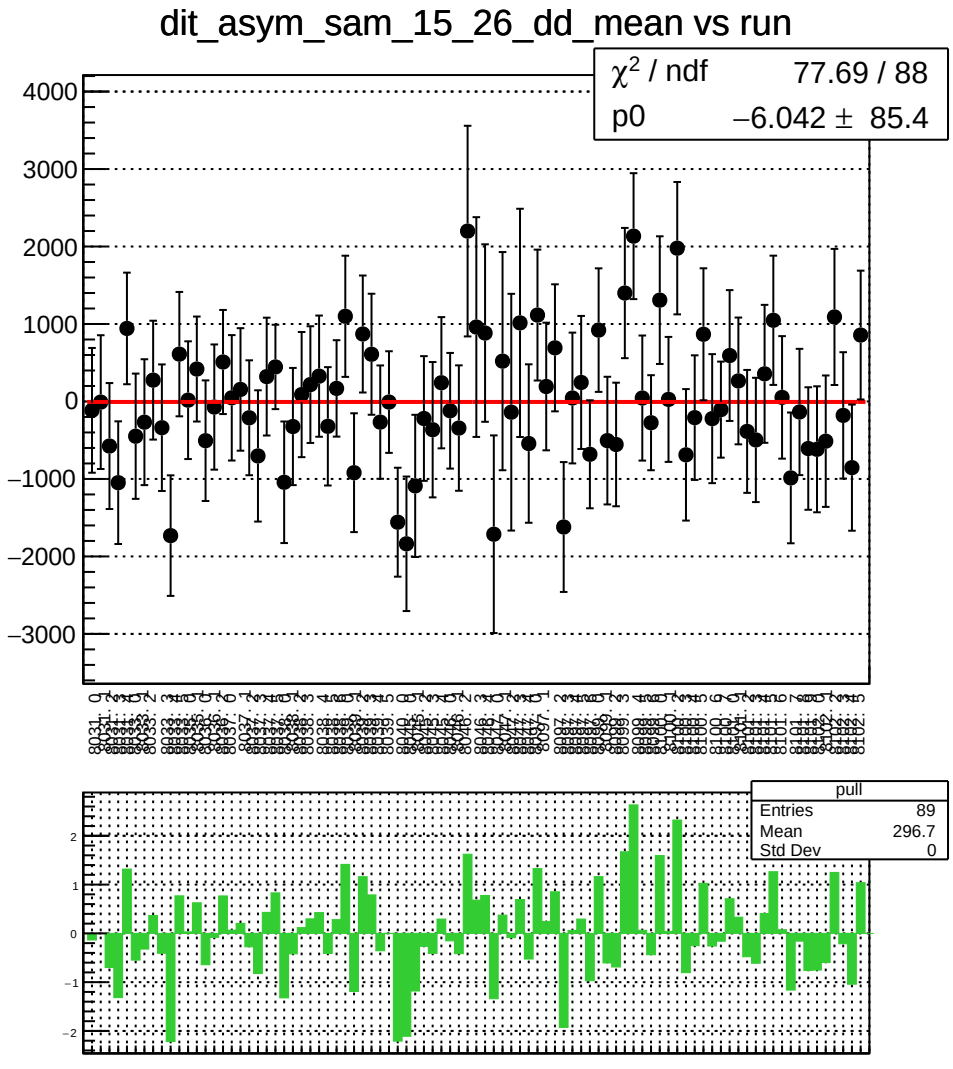
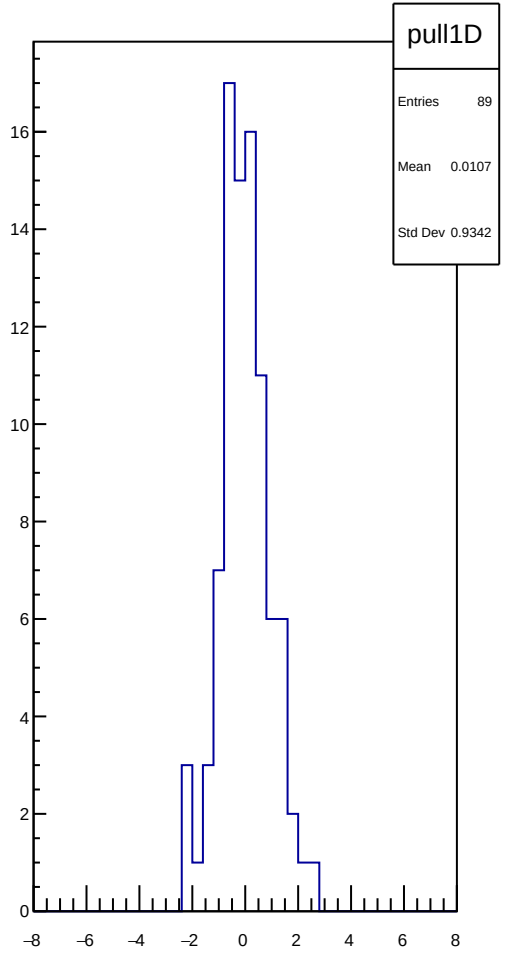
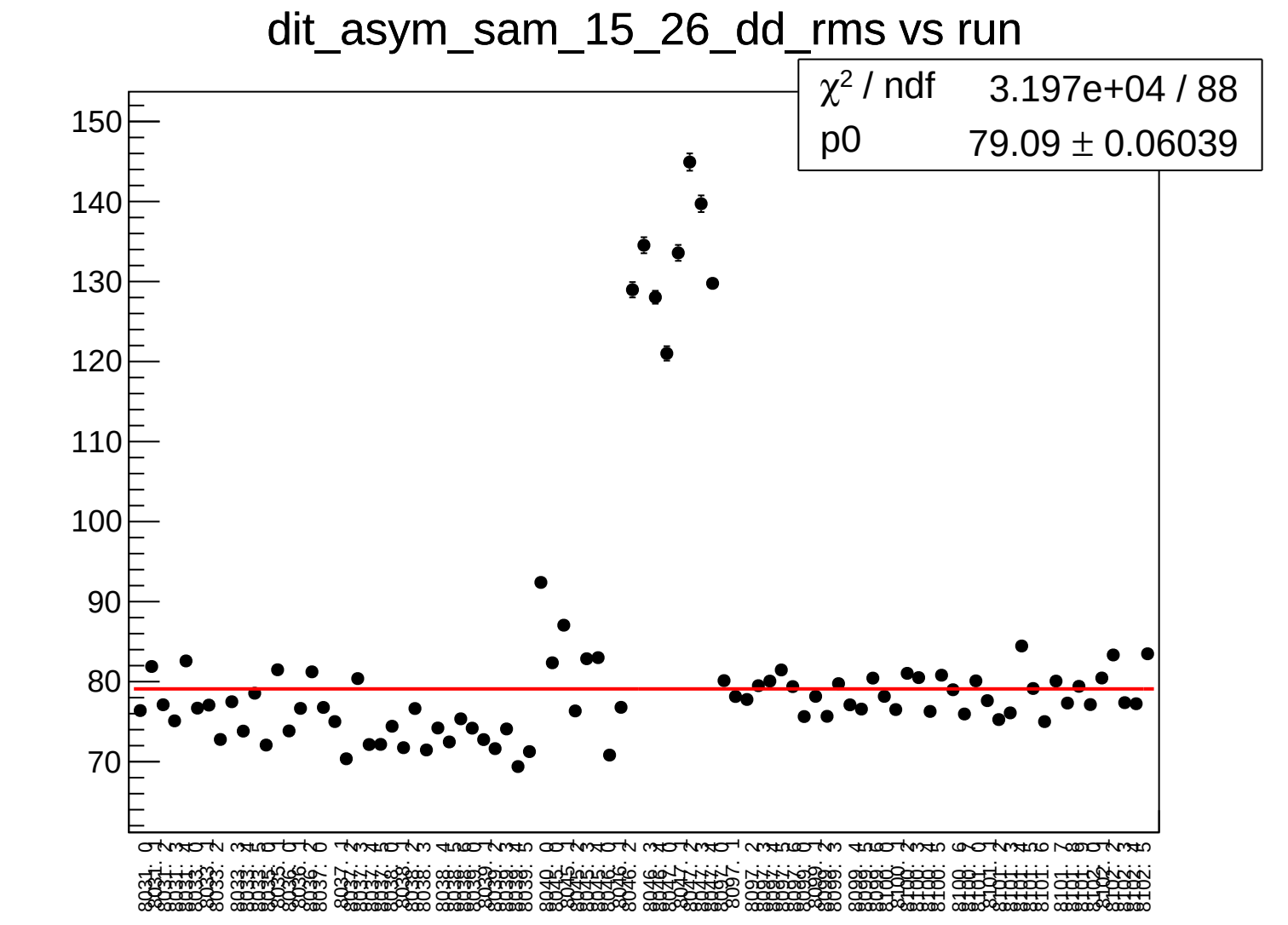
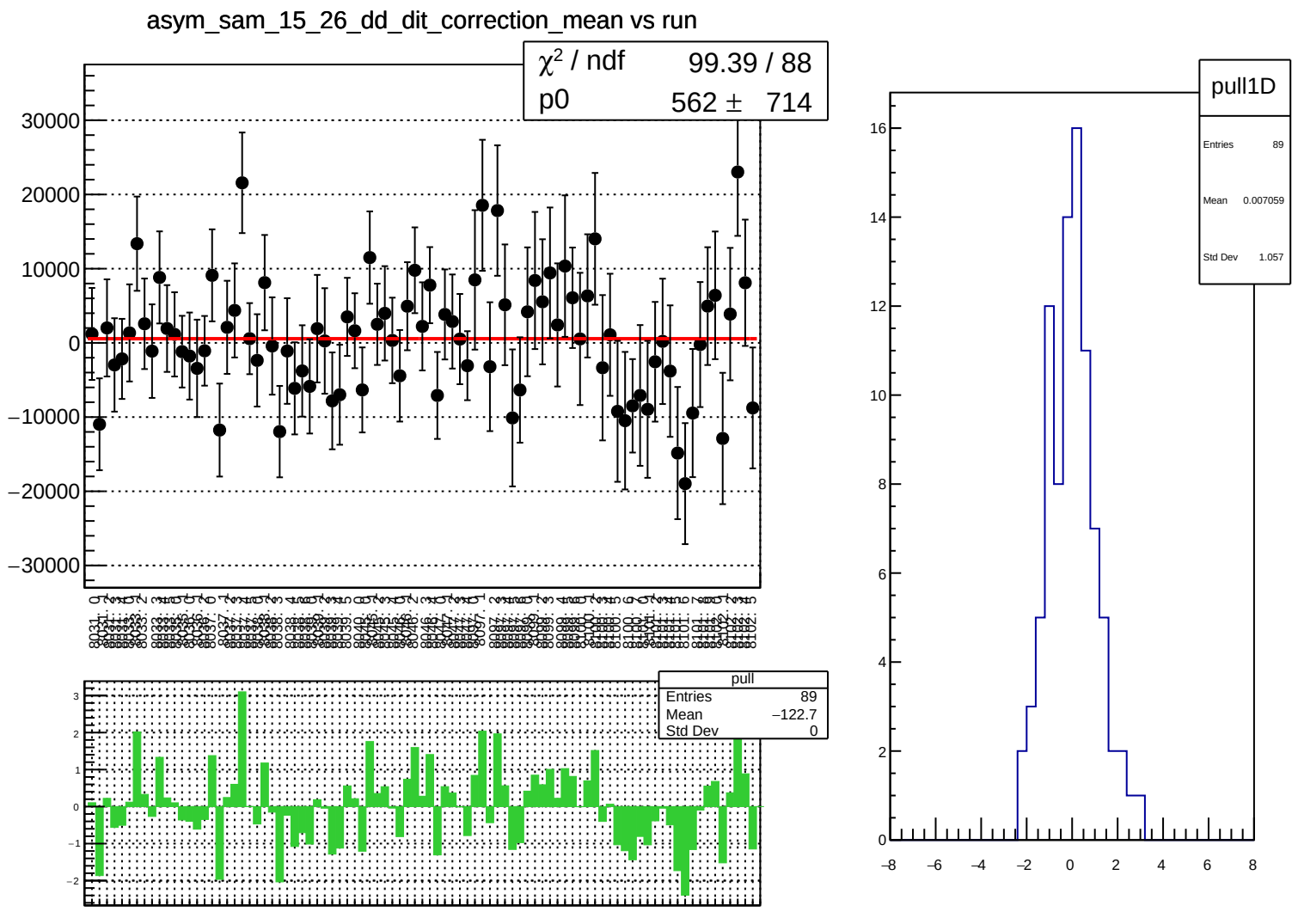
0
2
4
6
8

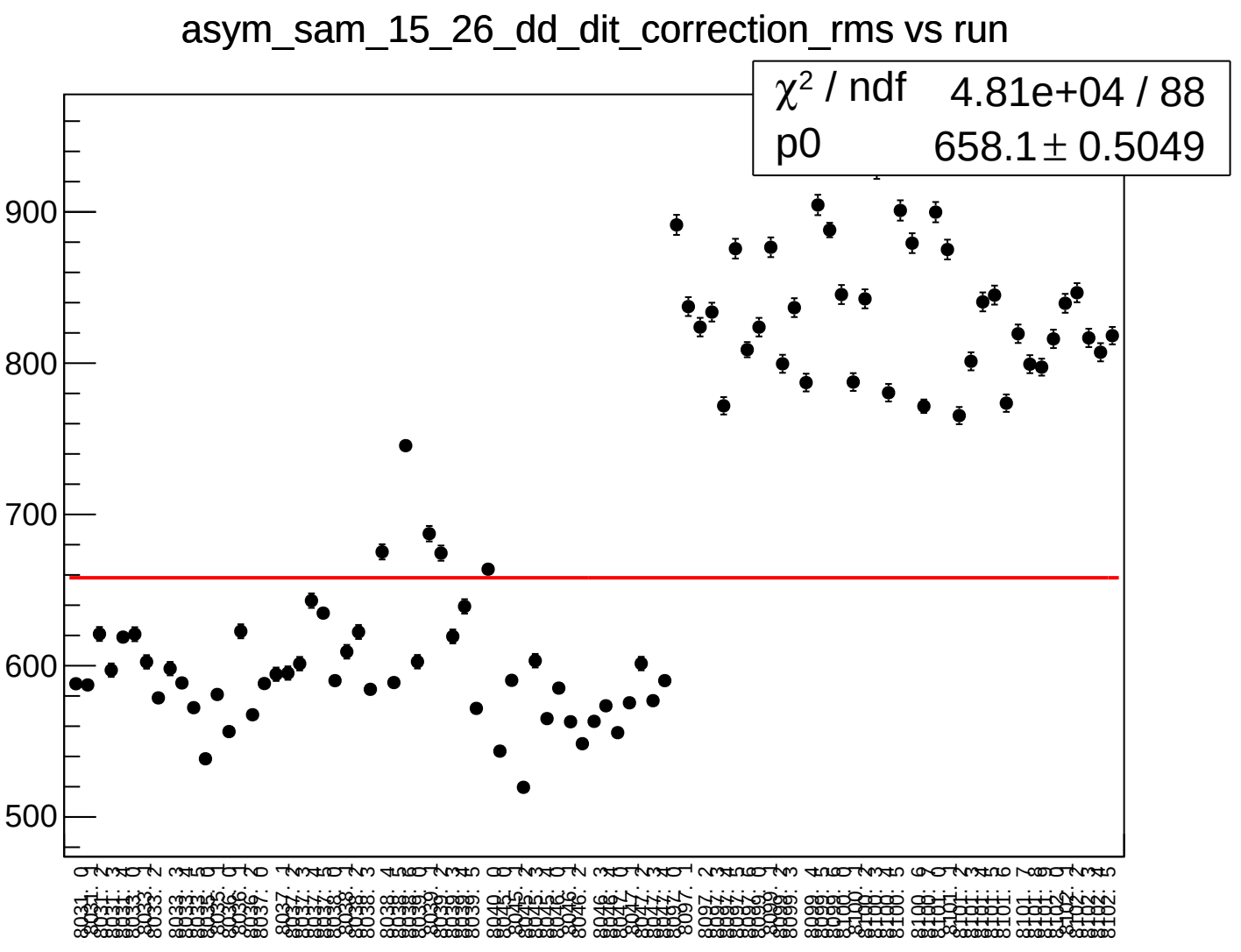

asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 6.844e+04 / 88
p0 640.4 ± 0.4943
900
800
700
600
500
400

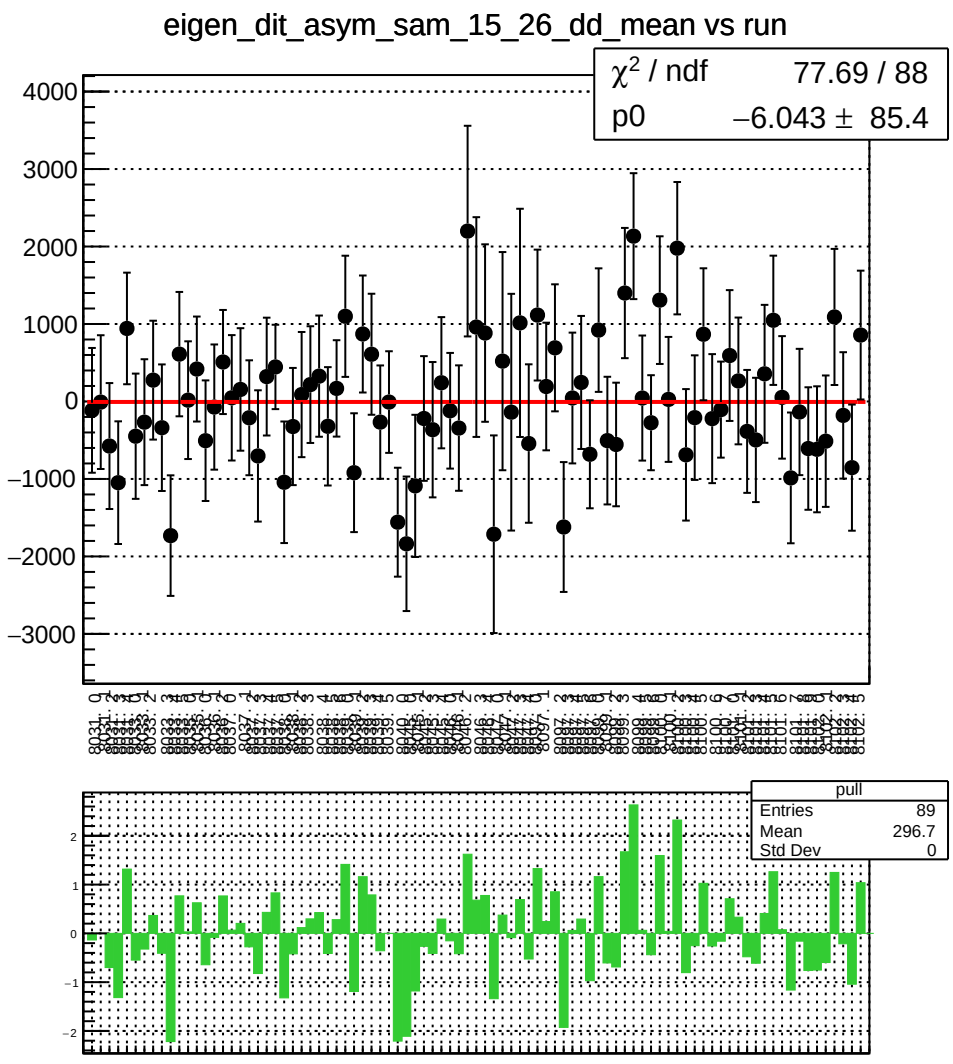

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 77.69 / 88
p0 −6.042 ± 85.4
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean 296.7
Std Dev 0
2
1
0
−1
−2

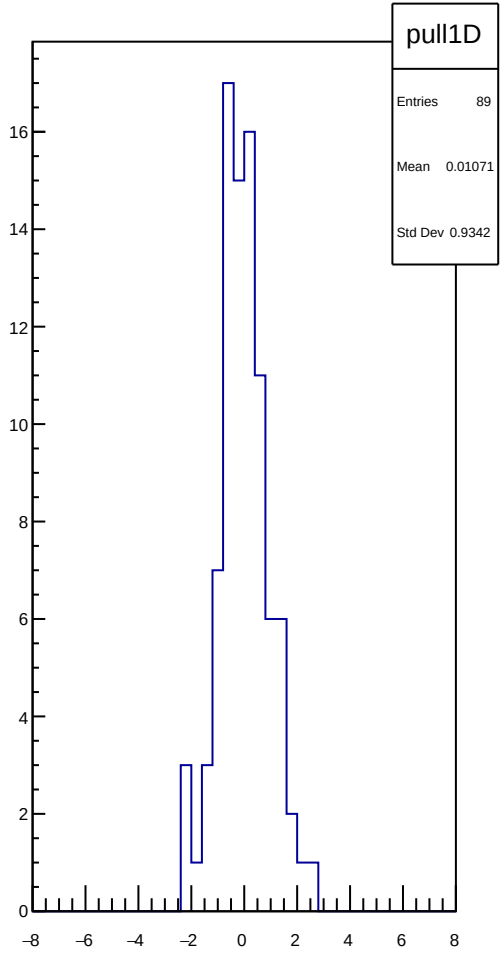

pull1D
Entries 89
Mean 0.0107
Std Dev 0.9342
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

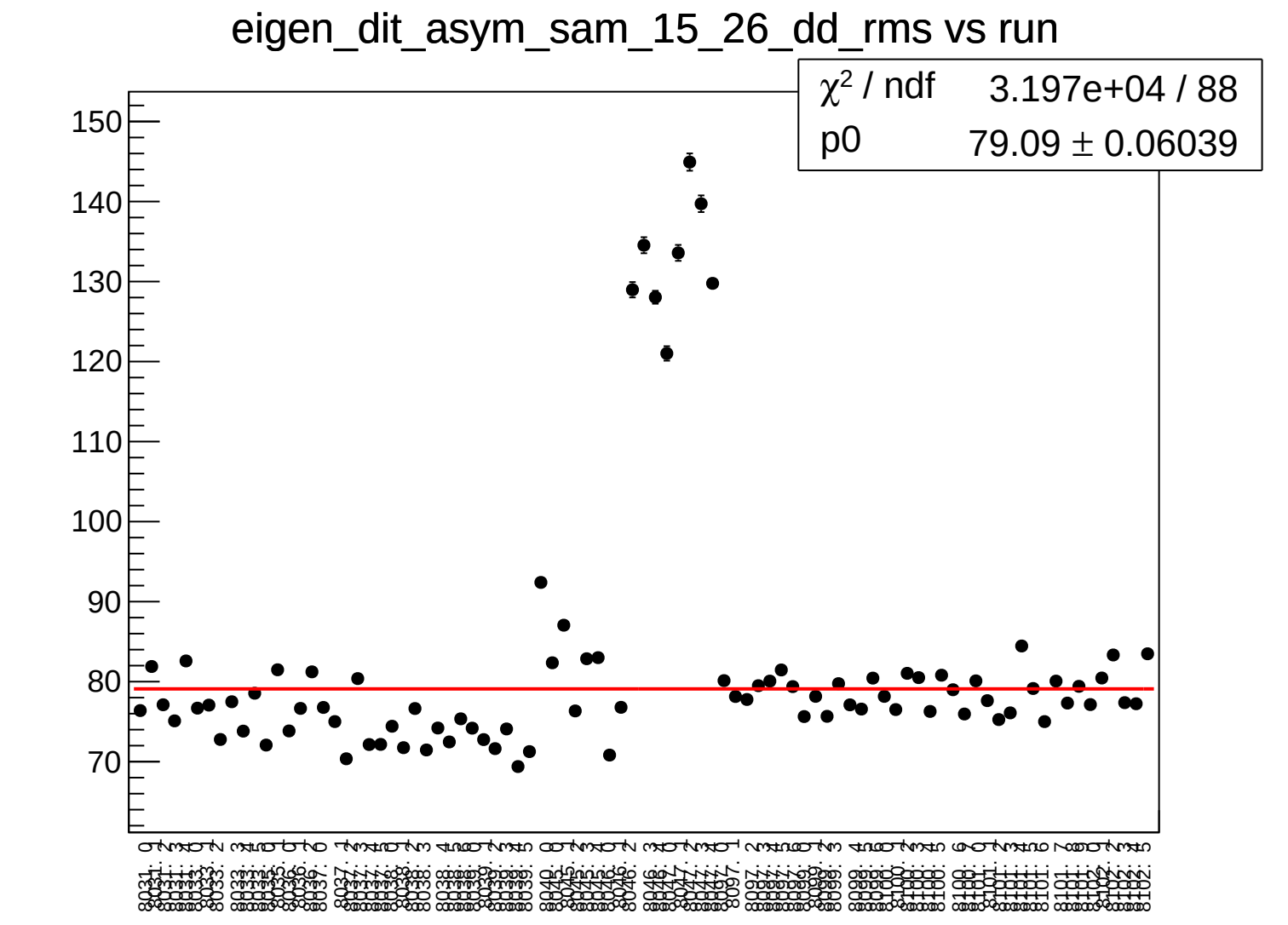

dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 3.197e+04 / 88
p0 79.09 ± 0.06039
150
140
130
120
110
100
90
80
70

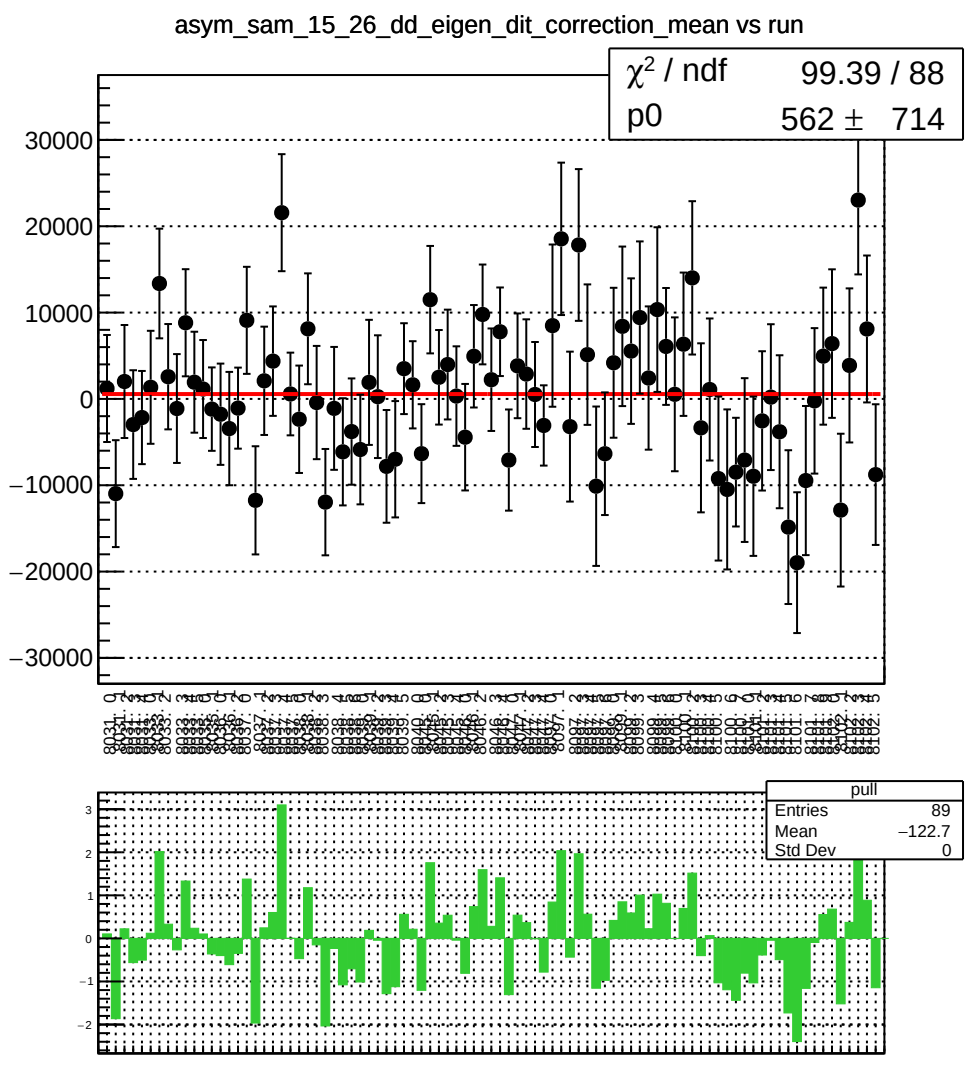

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 99.39 / 88
p0 562 ± 714
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −122.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.007059
Std Dev 1.057
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

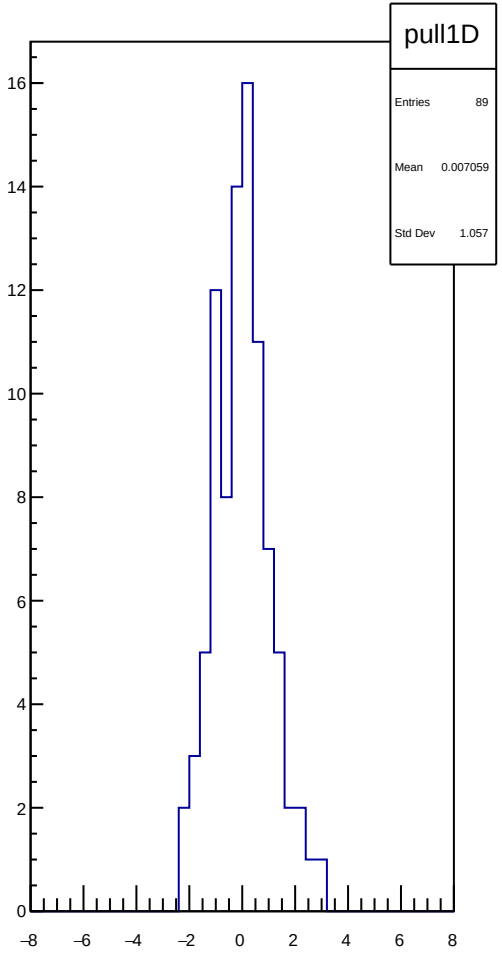

asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 4.81e+04 / 88
p0 658.1 ± 0.5049
900
800
700
600
500

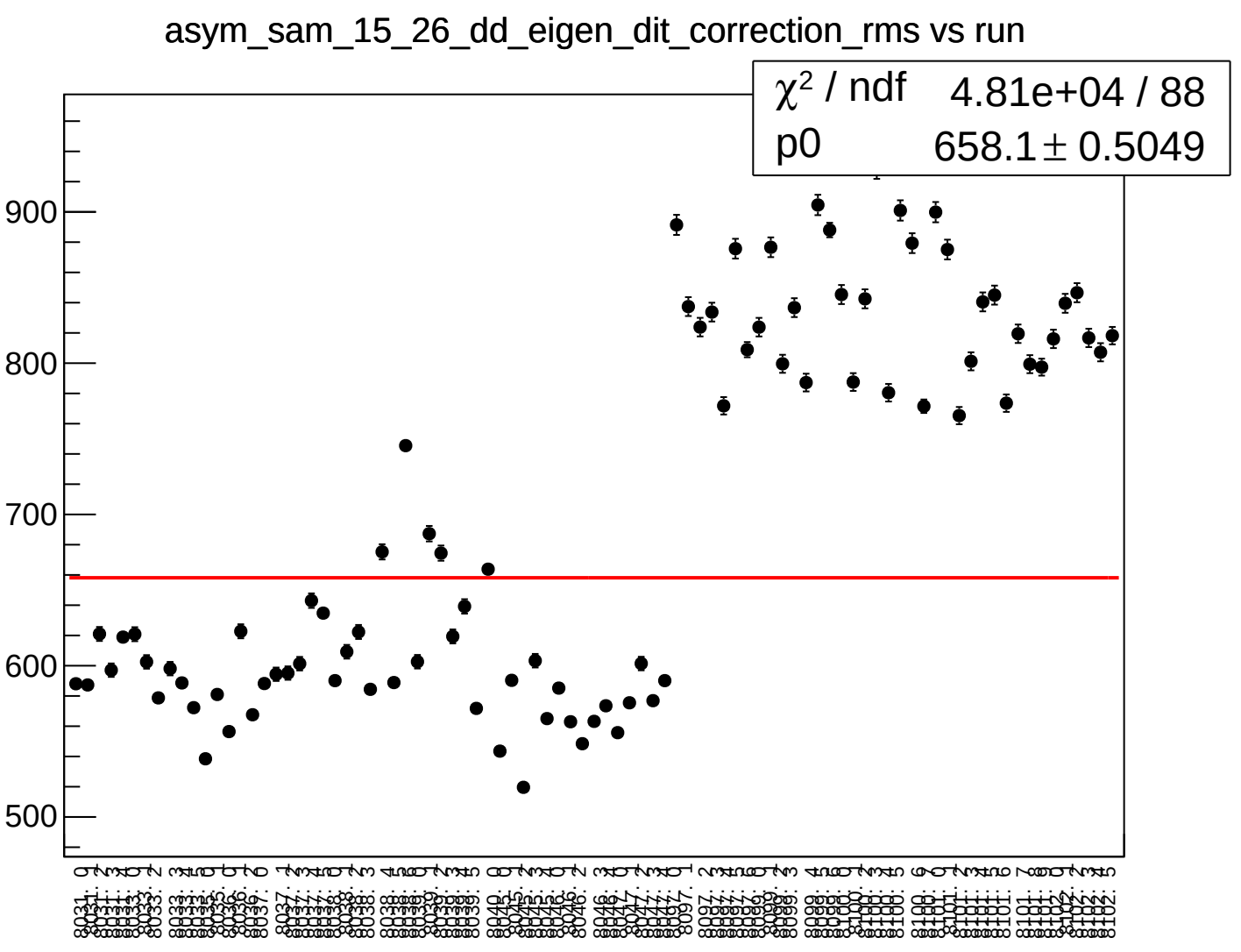

eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 77.69 / 88
p0 −6.043 ± 85.4
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean 296.7
Std Dev 0
2
1
0
−1
−2

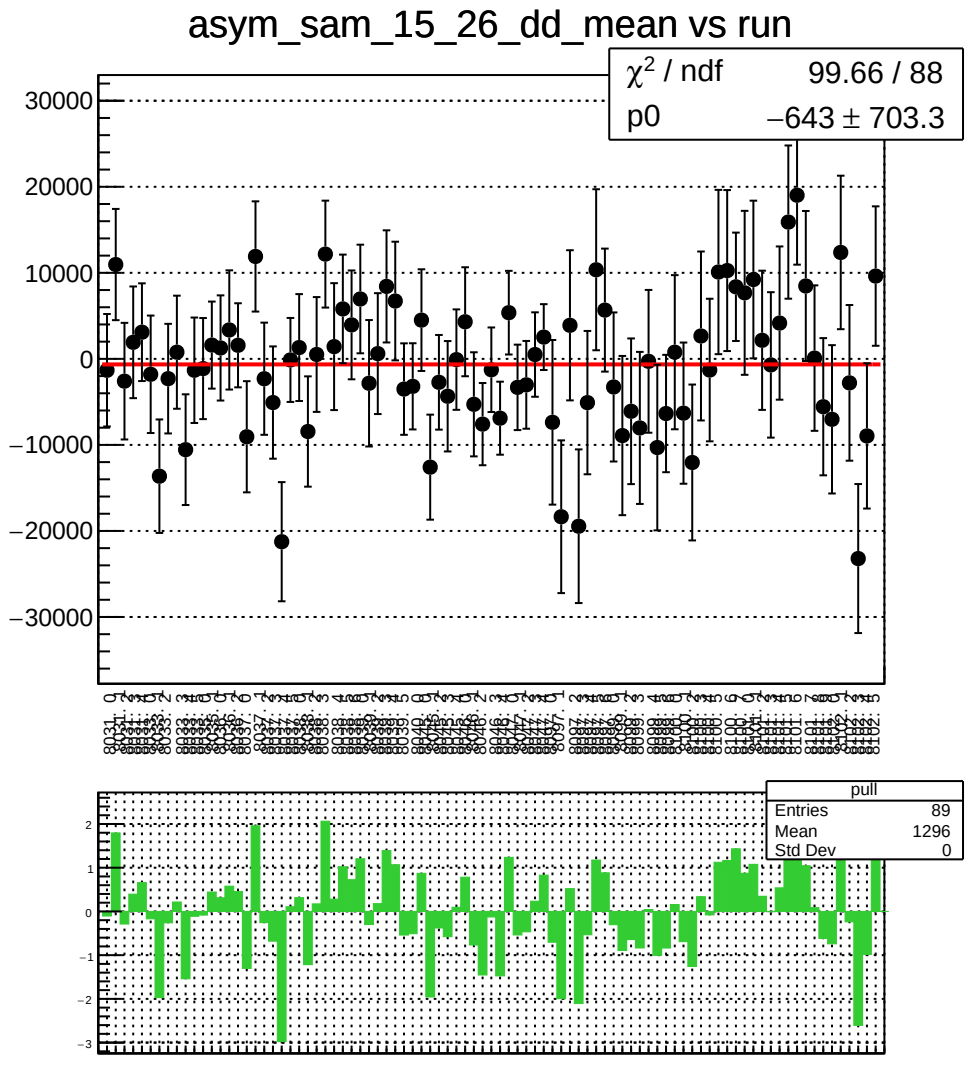

pull1D
Entries 89
Mean 0.01071
Std Dev 0.9342
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

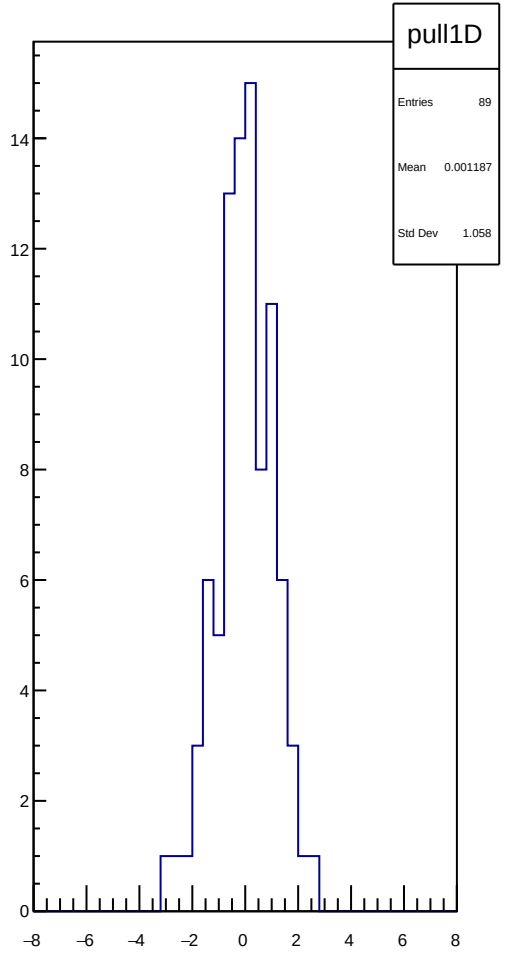

eigen_dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 3.197e+04 / 88
p0 79.09 ± 0.06039
150
140
130
120
110
100
90
80
70

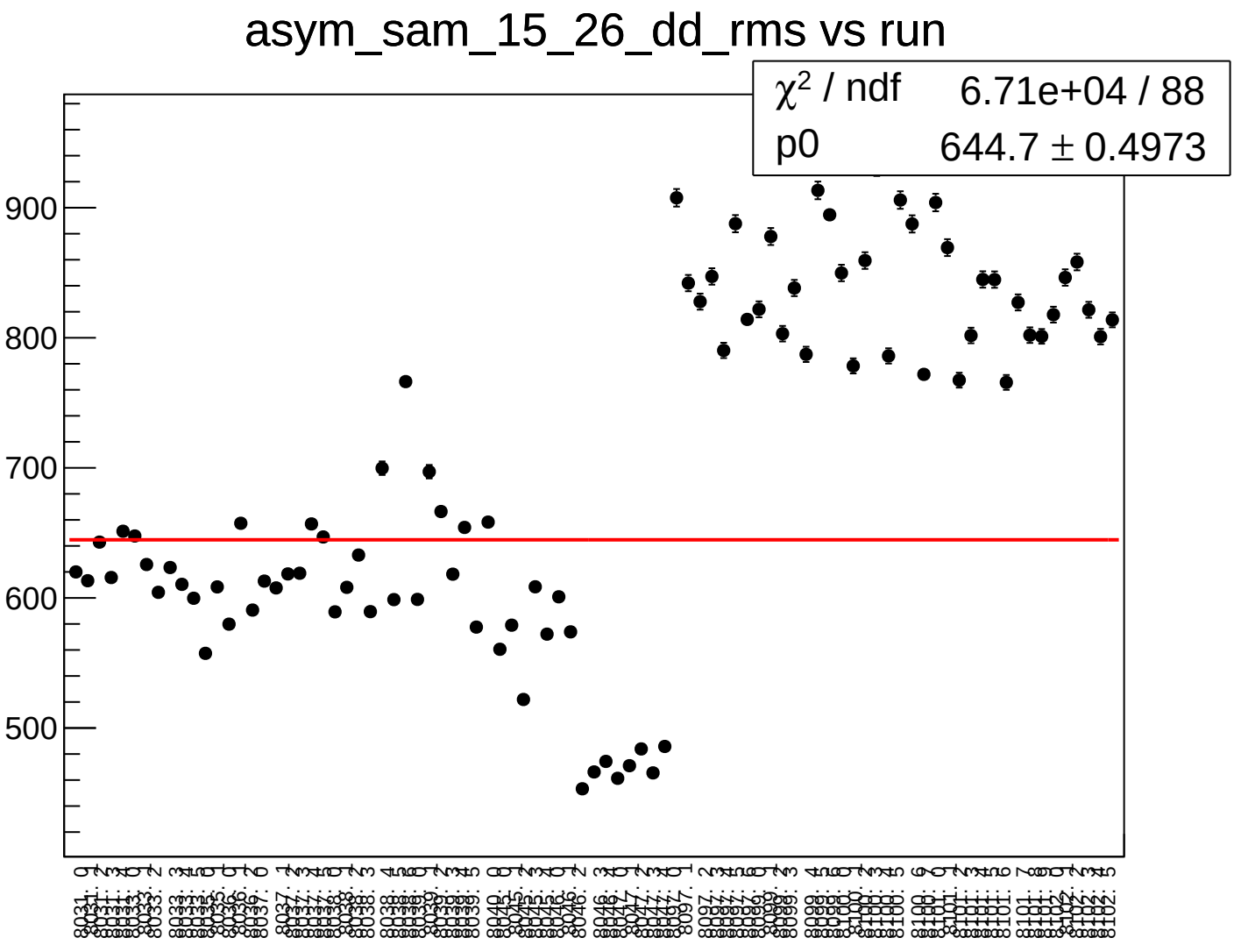

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 99.39 / 88
p0 562 ± 714
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −122.7
Std Dev 0
3
2
1
0
−1
−2

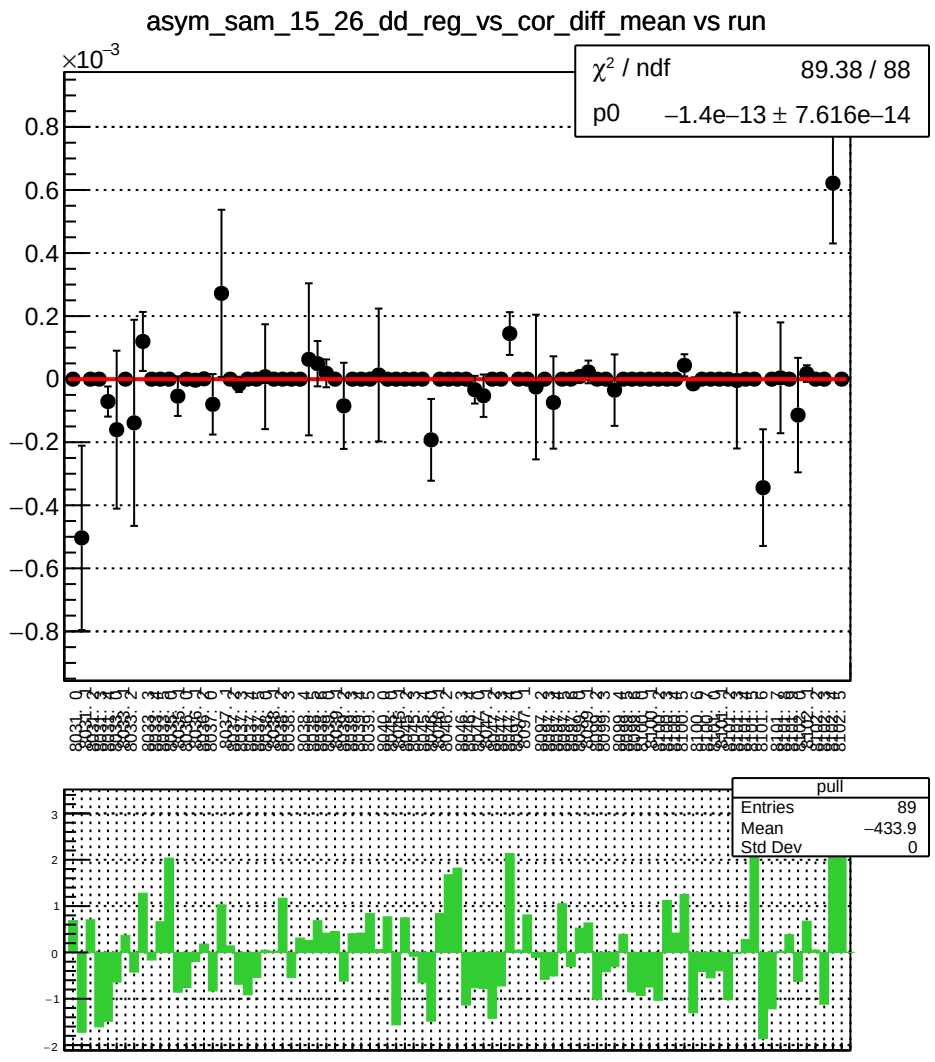

pull1D
Entries 89
Mean 0.007059
Std Dev 1.057
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

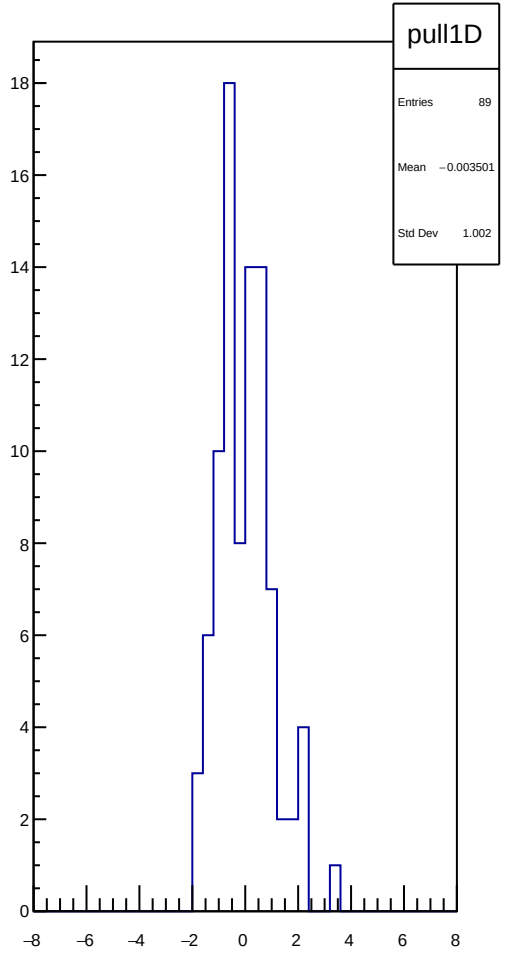

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 4.81e+04 / 88
p0 658.1 ± 0.5049
900
800
700
600
500

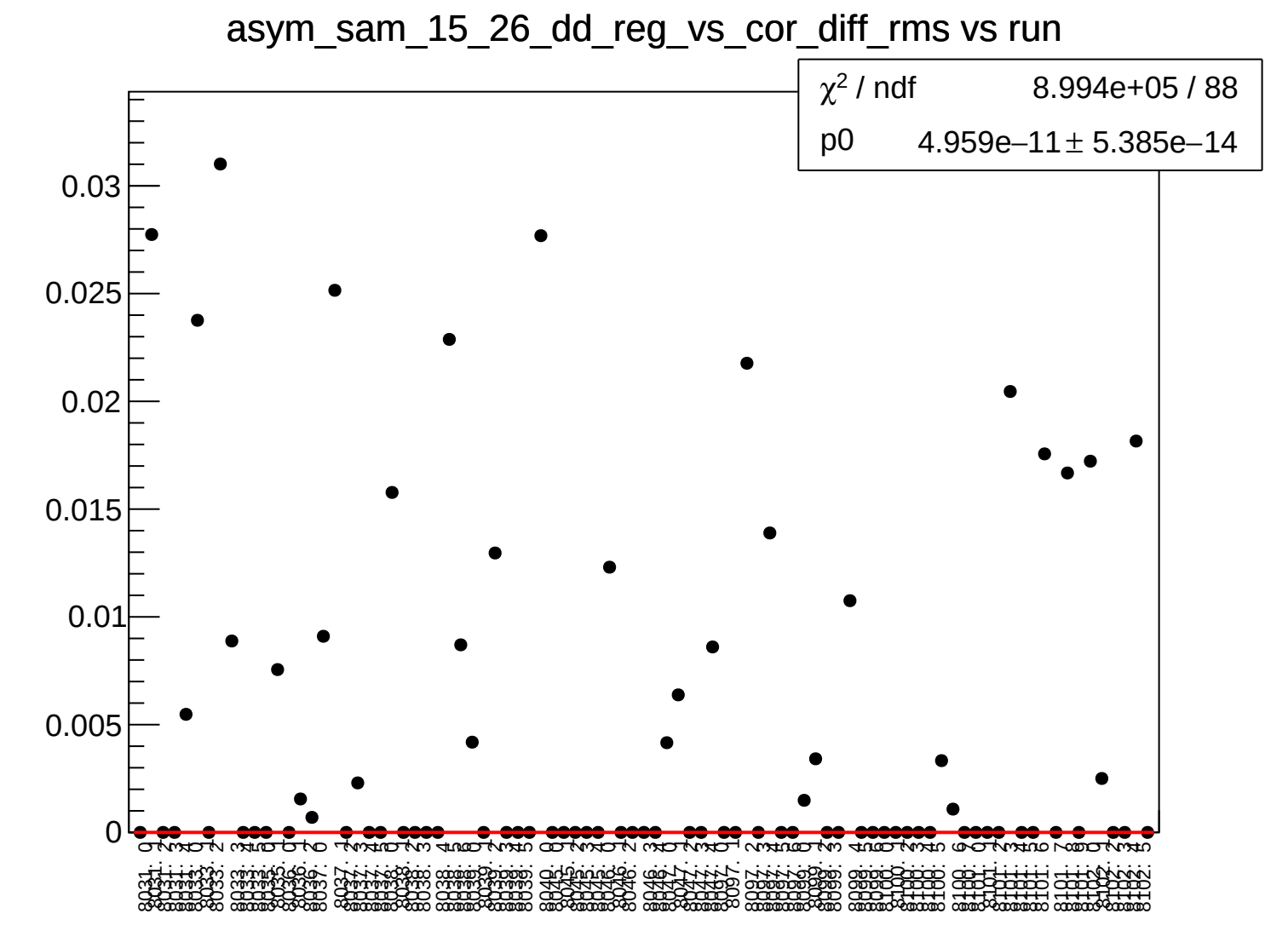

asym_sam_15_26_dd_mean vs run
χ² / ndf 99.66 / 88
p0 −643 ± 703.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 1296
Std Dev 0
2
1
0
−1
−2
−3

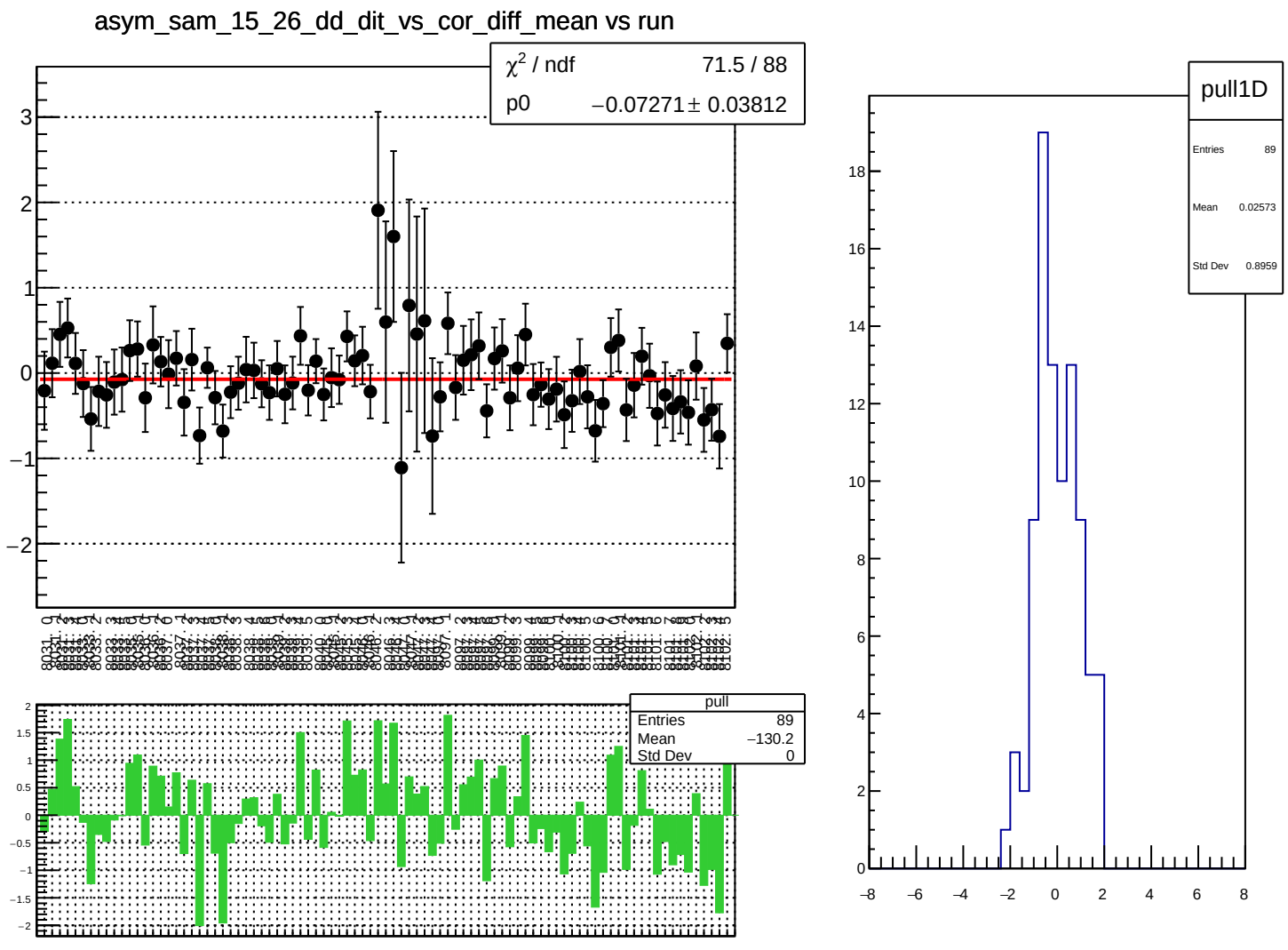

pull1D
Entries 89
Mean 0.001187
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

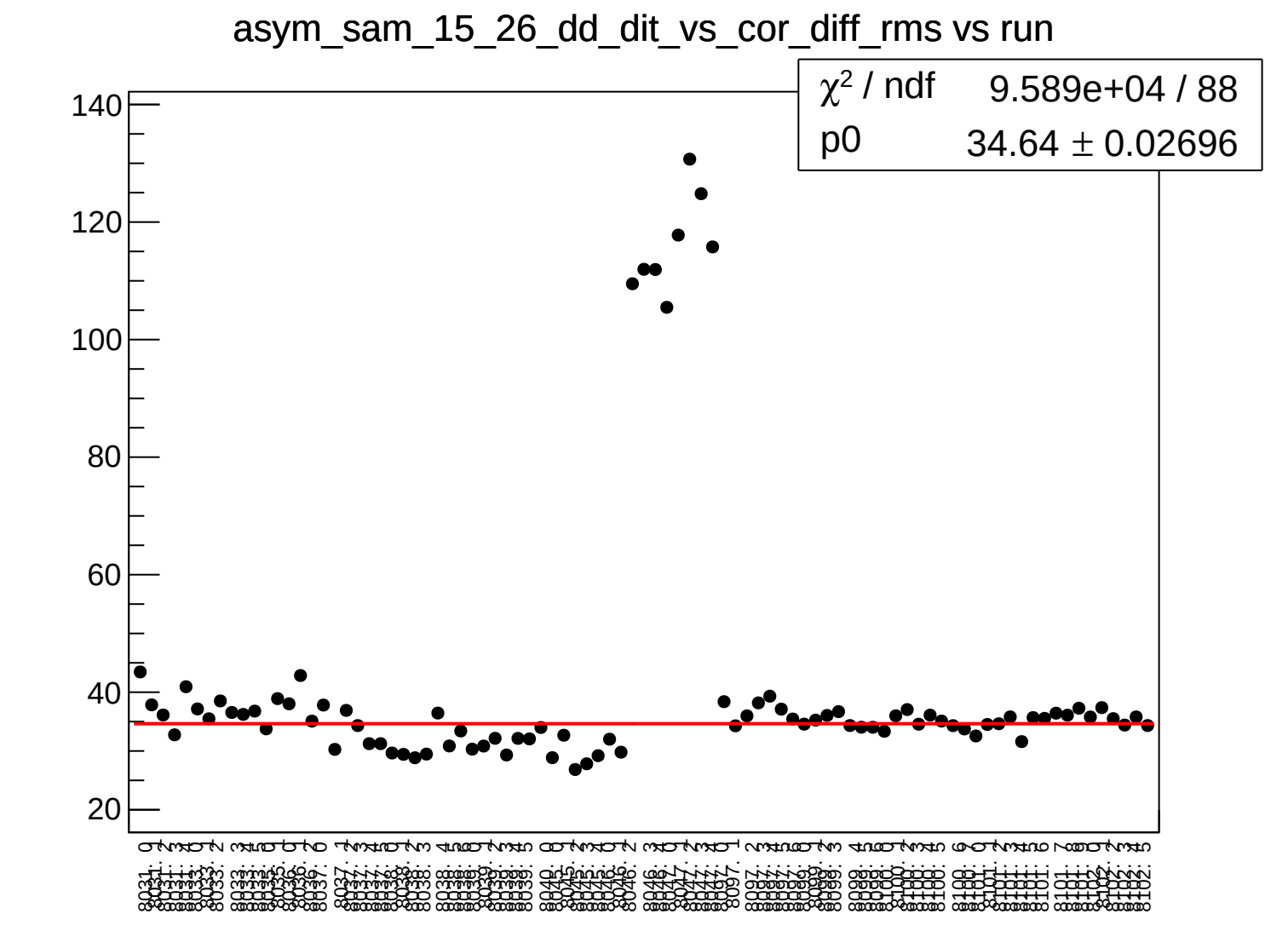

asym_sam_15_26_dd_rms vs run
χ² / ndf 6.71e+04 / 88
p0 644.7 ± 0.4973
900
800
700
600
500

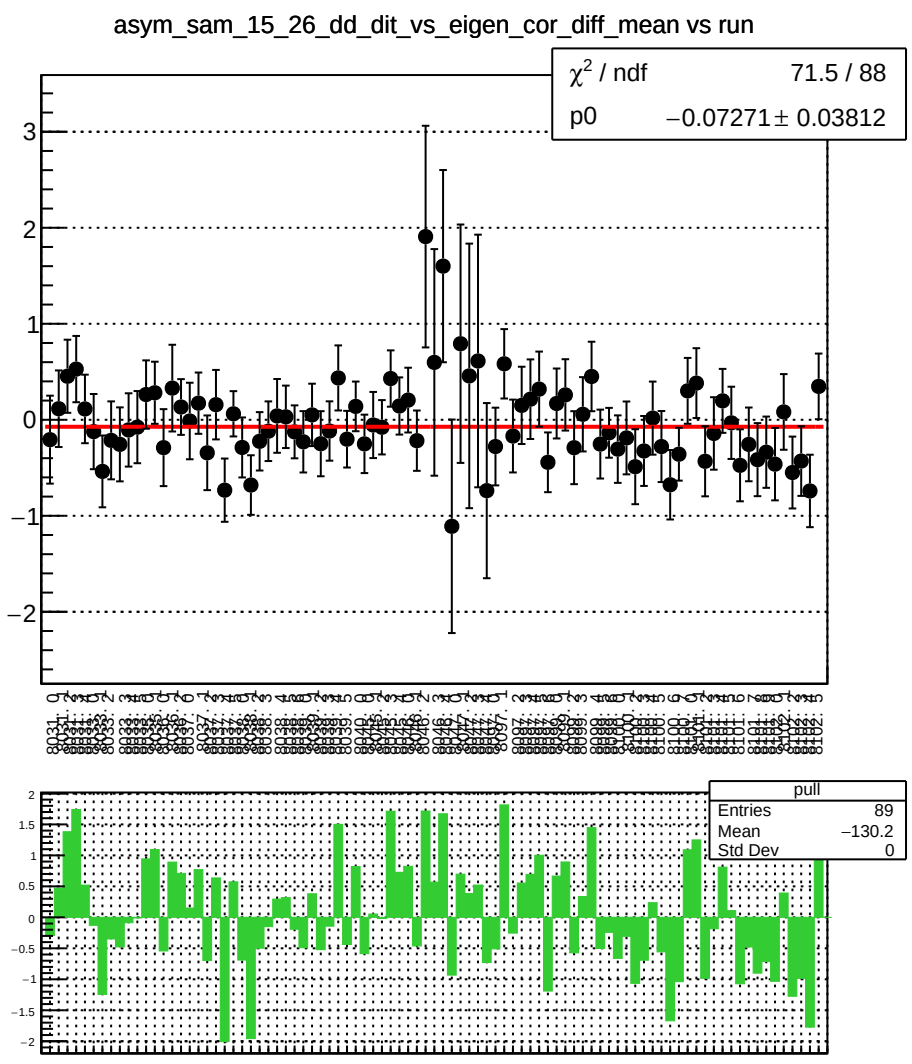

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 89.38 / 88
p0 −1.4e−13 ± 7.616e−14
pull
Entries 89
Mean −433.9
Std Dev 0

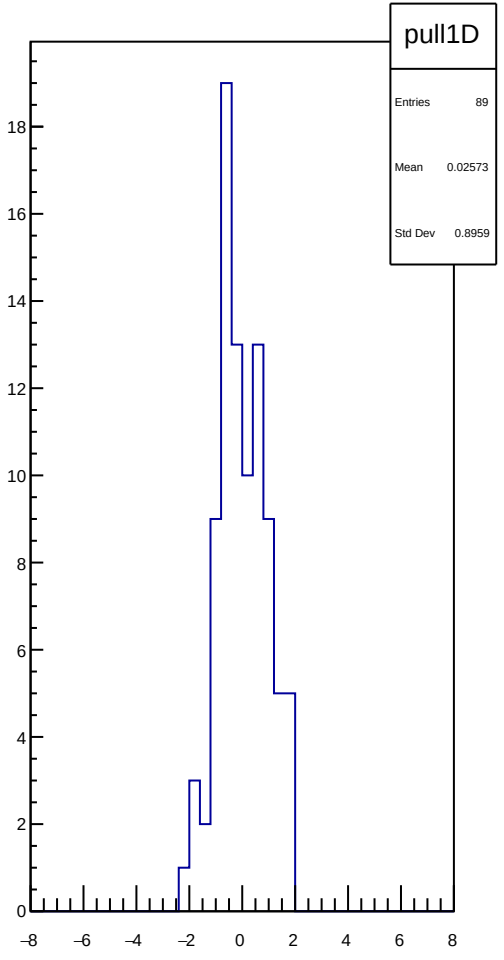

pull1D
Entries 89
Mean −0.003501
Std Dev 1.002

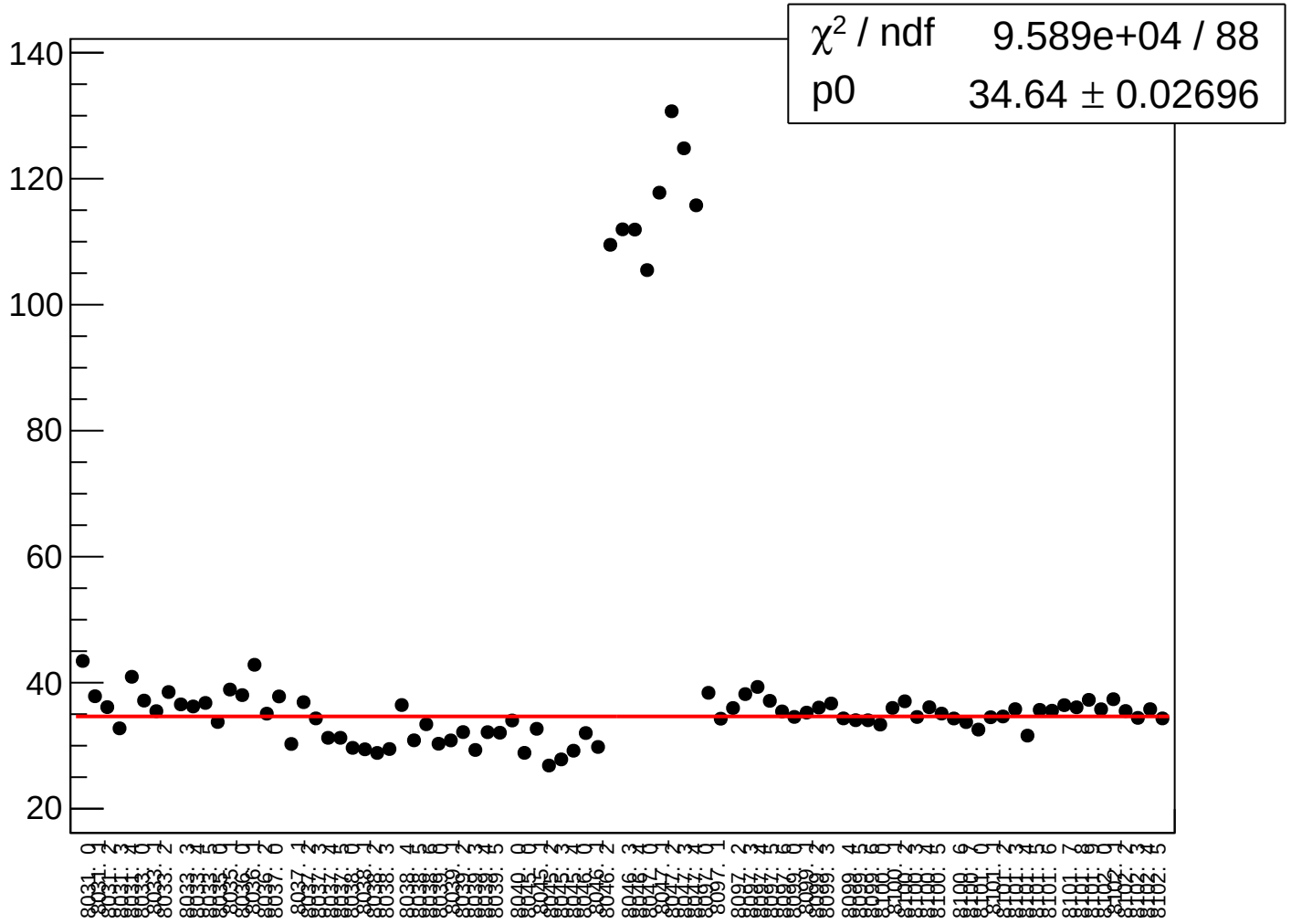

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.994e+05 / 88
p0 4.959e−11 ± 5.385e−14
0.03
0.025
0.02
0.015
0.01
0.005
0

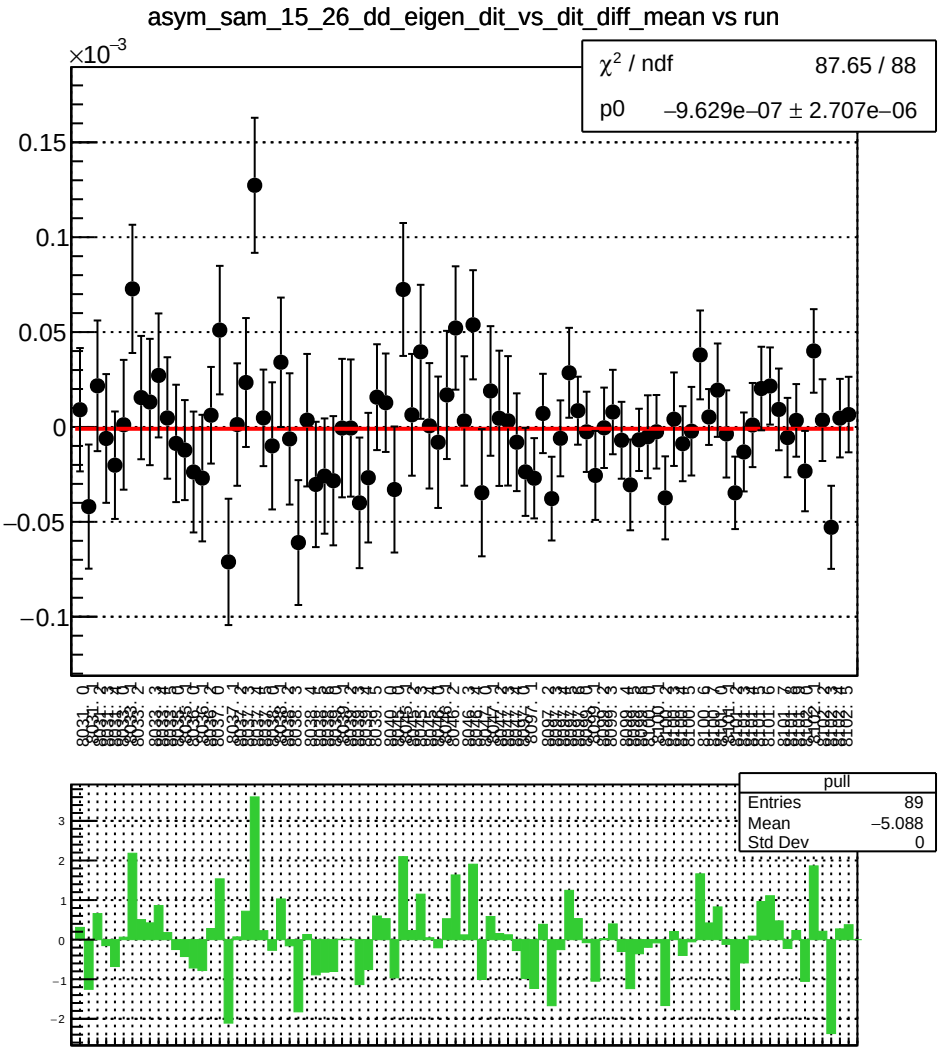

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 71.5 / 88
p0 −0.07271 ± 0.03812
pull
Entries 89
Mean −130.2
Std Dev 0
pull1D
Entries 89
Mean 0.02573
Std Dev 0.8959

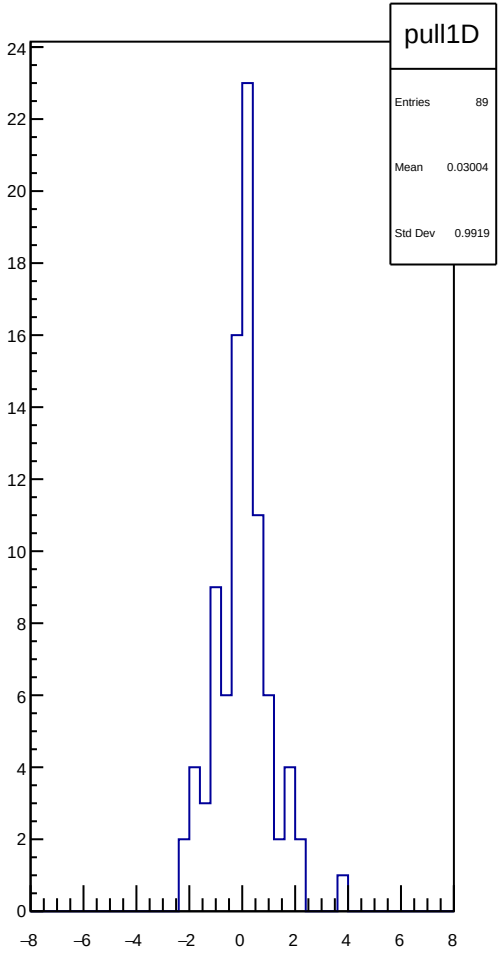

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9.589e+04 / 88
p0 34.64 ± 0.02696
140
120
100
80
60
40
20

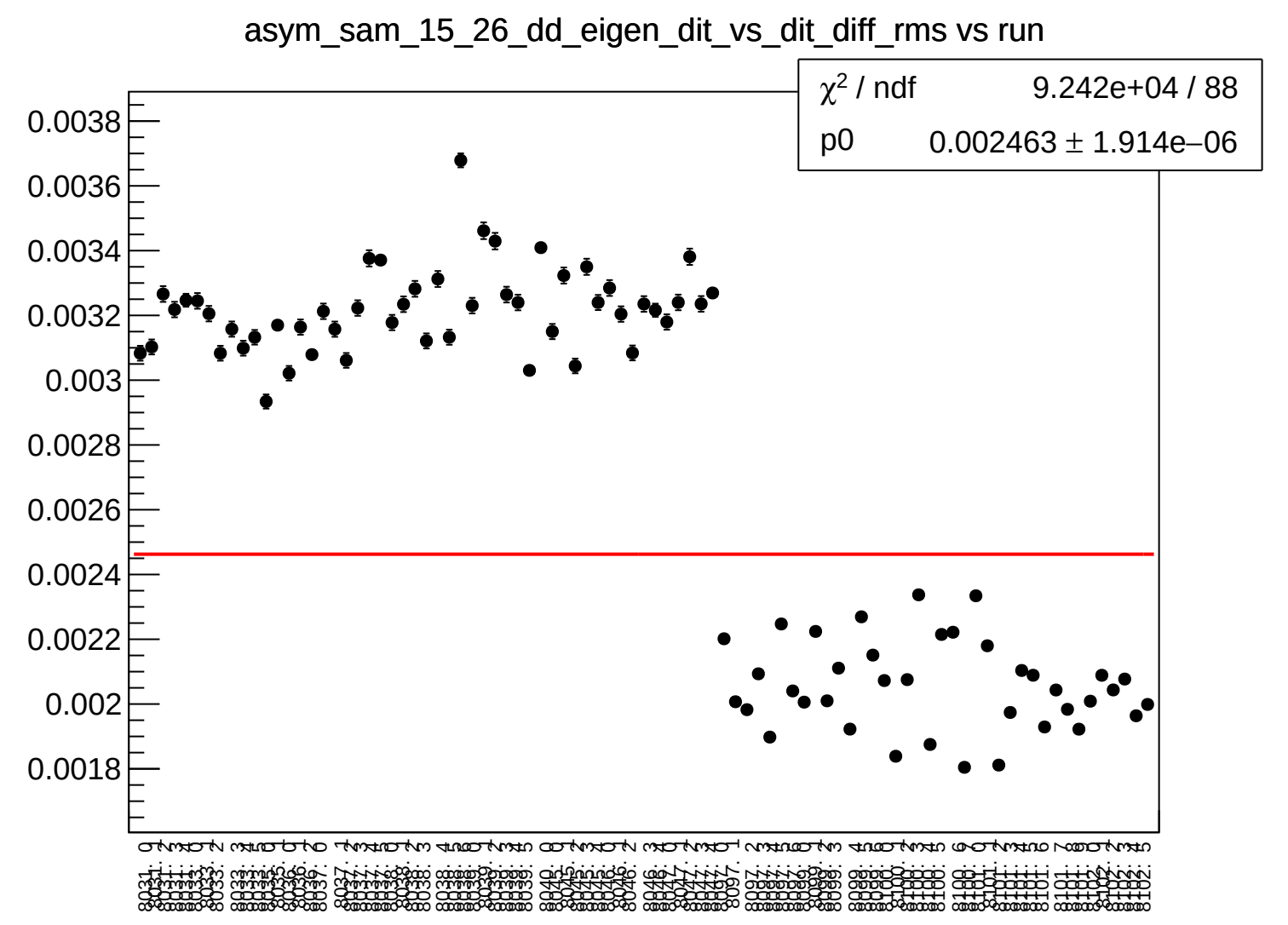

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.5 / 88
p0 −0.07271 ± 0.03812
pull
Entries 89
Mean −130.2
Std Dev 0

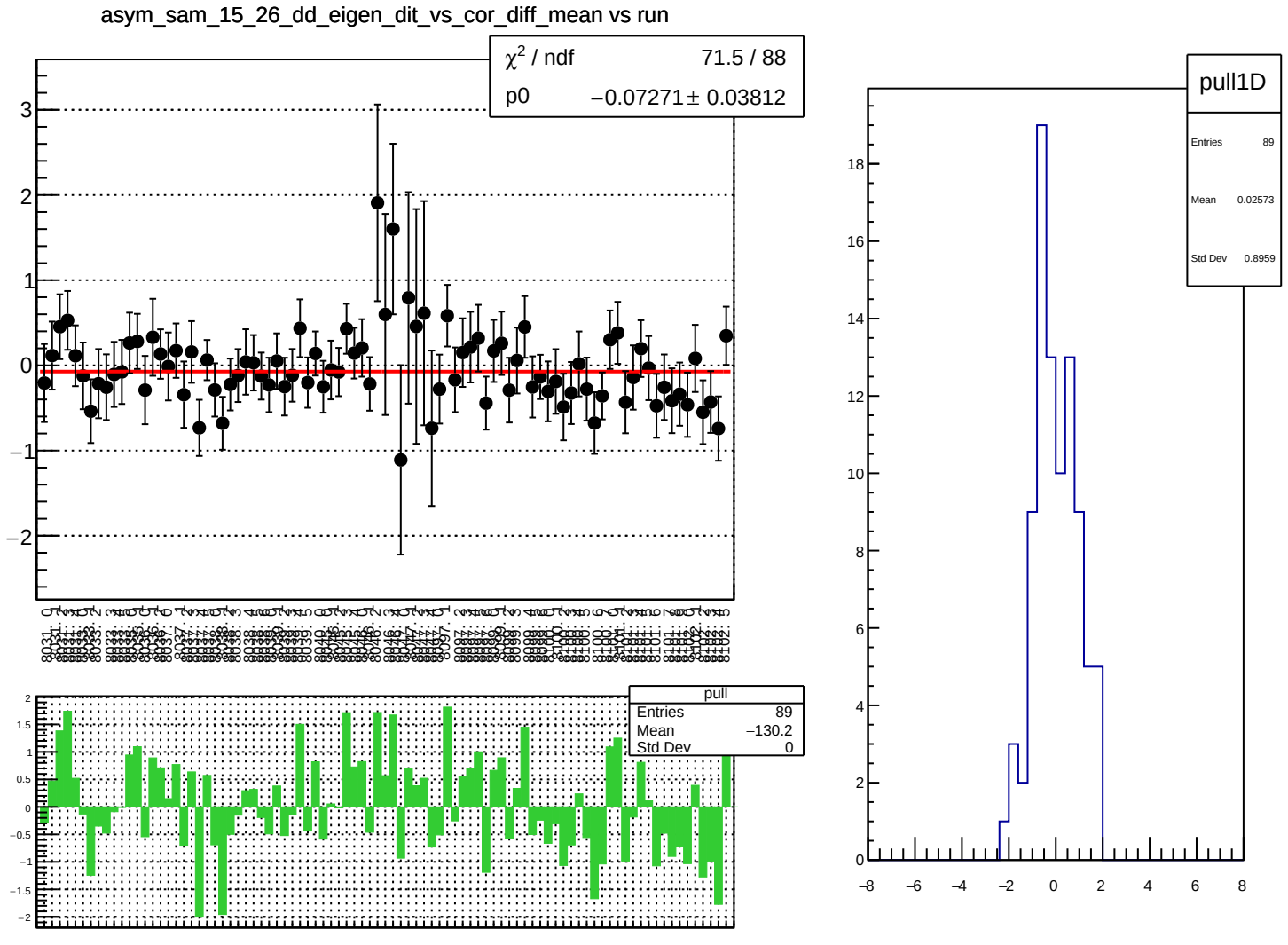

pull1D
Entries 89
Mean 0.02573
Std Dev 0.8959

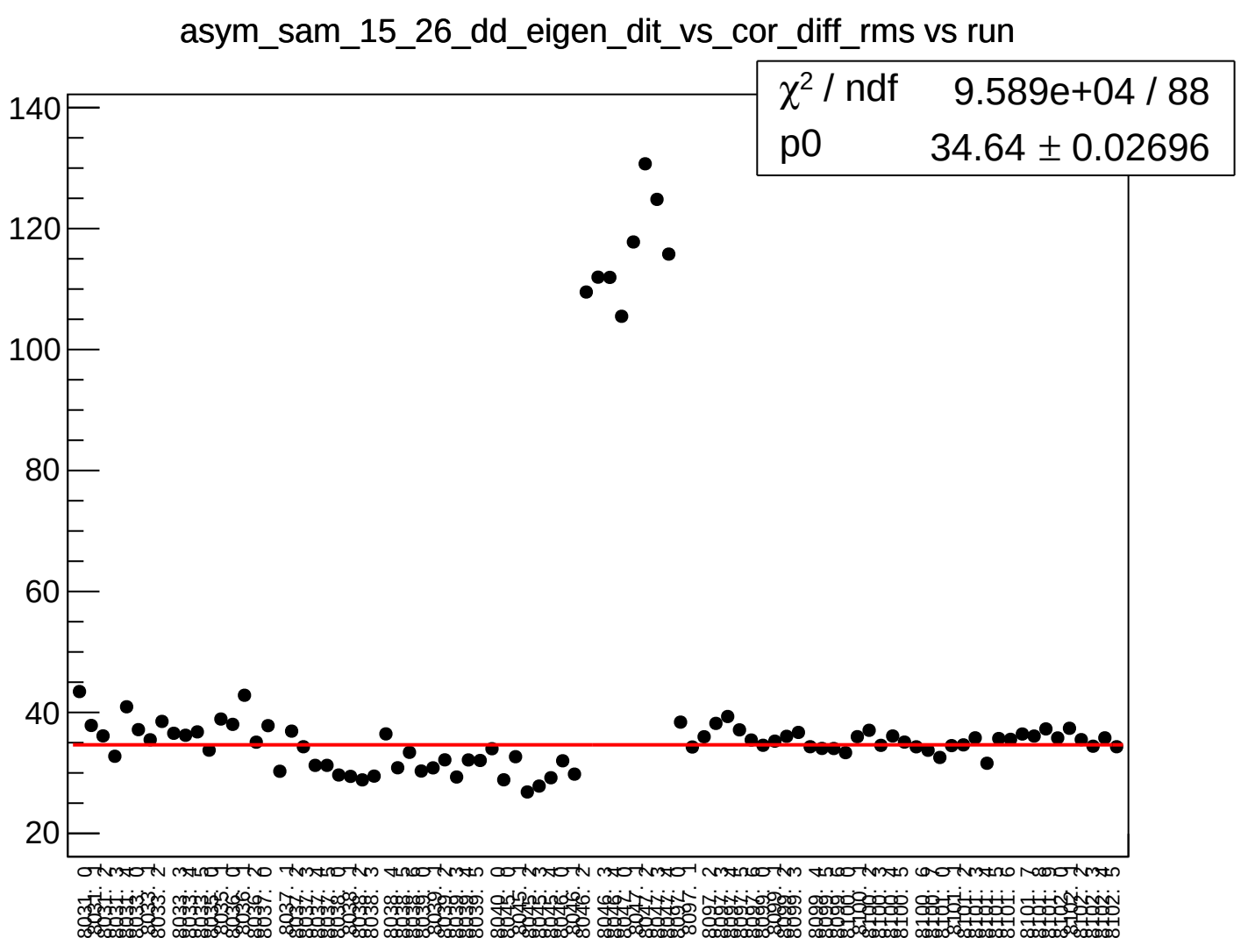

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.589e+04 / 88
p0 34.64 ± 0.02696
140
120
100
80
60
40
20

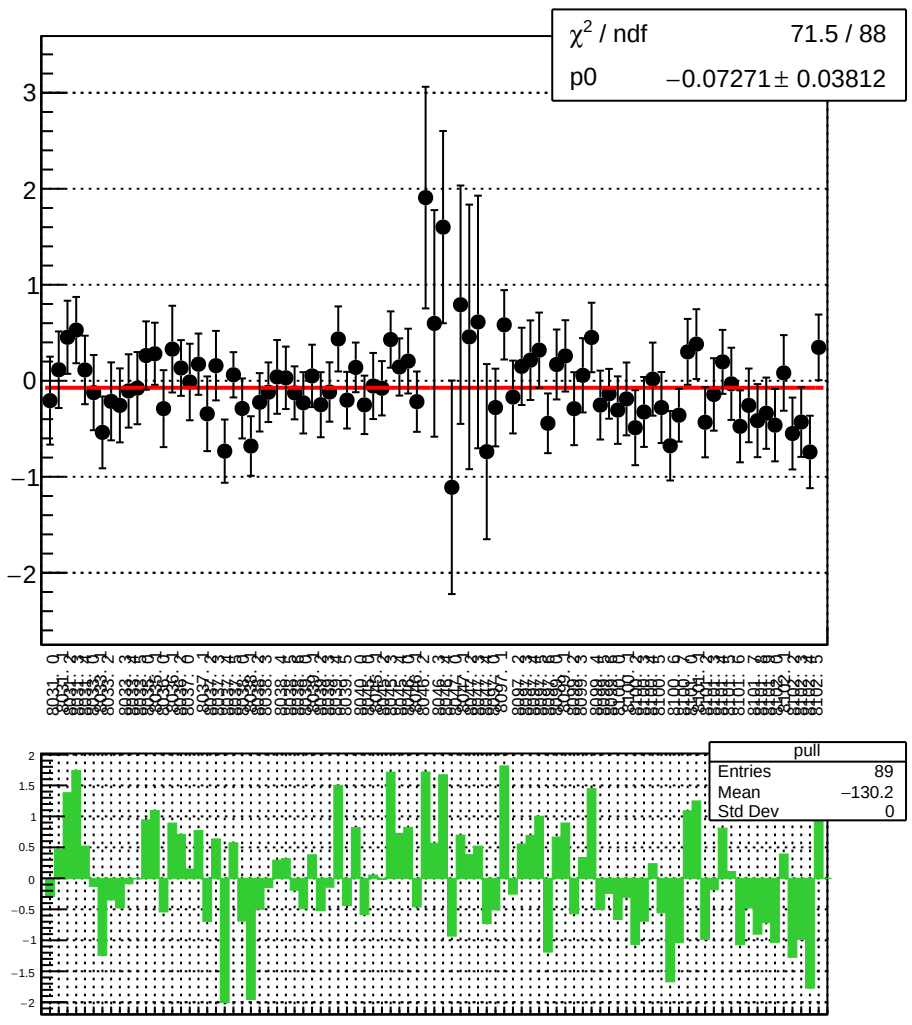

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 87.65 / 88
p0 −9.629e−07 ± 2.707e−06
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 89
Mean −5.088
Std Dev 0
3
2
1
0
−1
−2

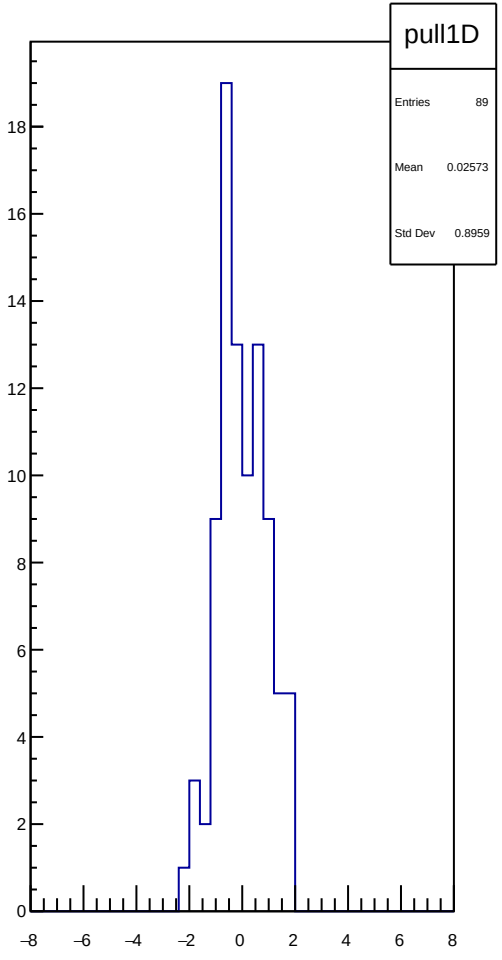

pull1D
Entries 89
Mean 0.03004
Std Dev 0.9919
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

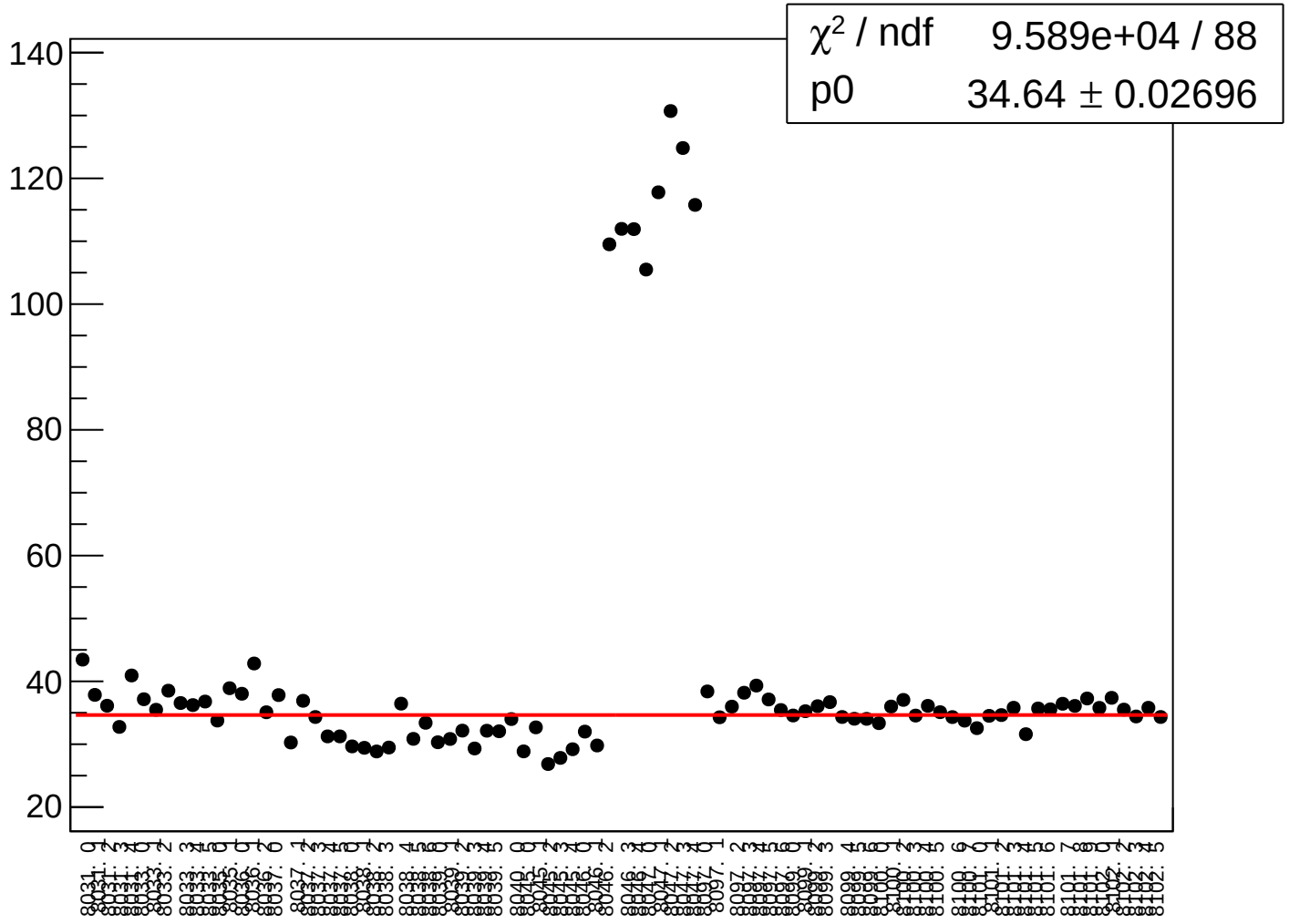

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.242e+04 / 88
p0 0.002463 ± 1.914e−06
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

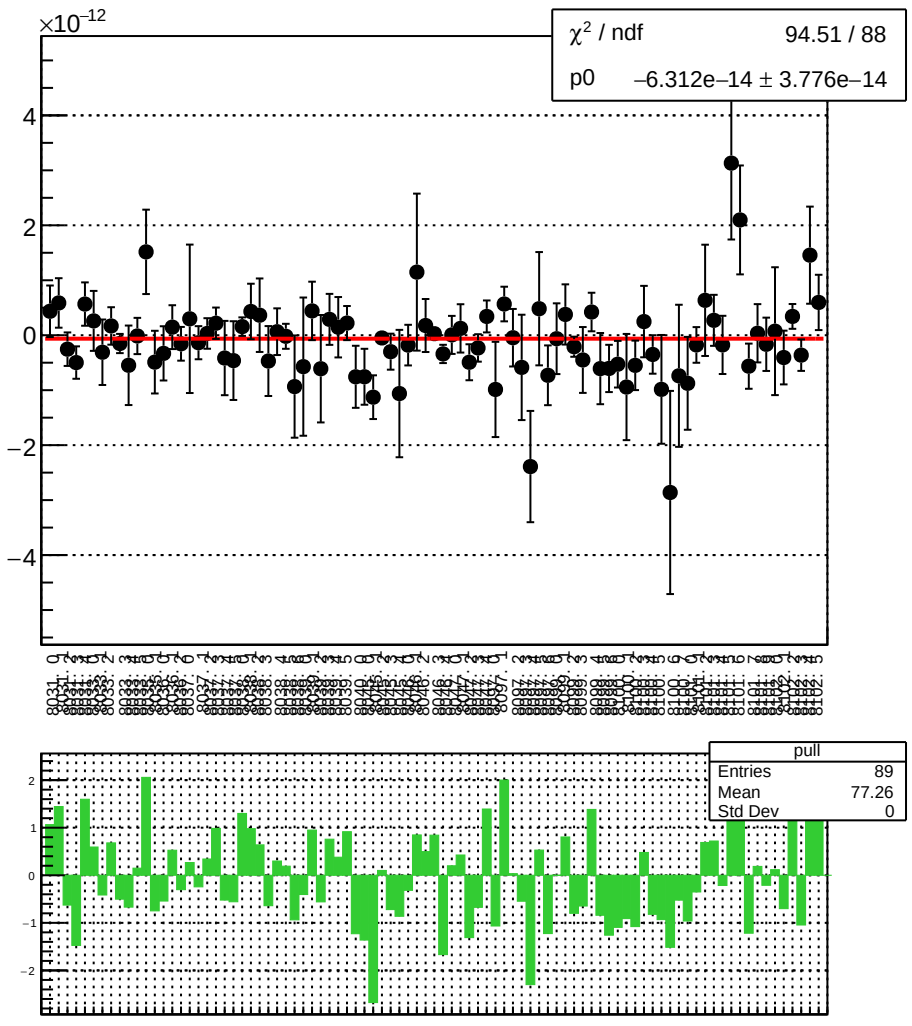

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.5 / 88
p0 −0.07271 ± 0.03812
pull
Entries 89
Mean −130.2
Std Dev 0
pull1D
Entries 89
Mean 0.02573
Std Dev 0.8959

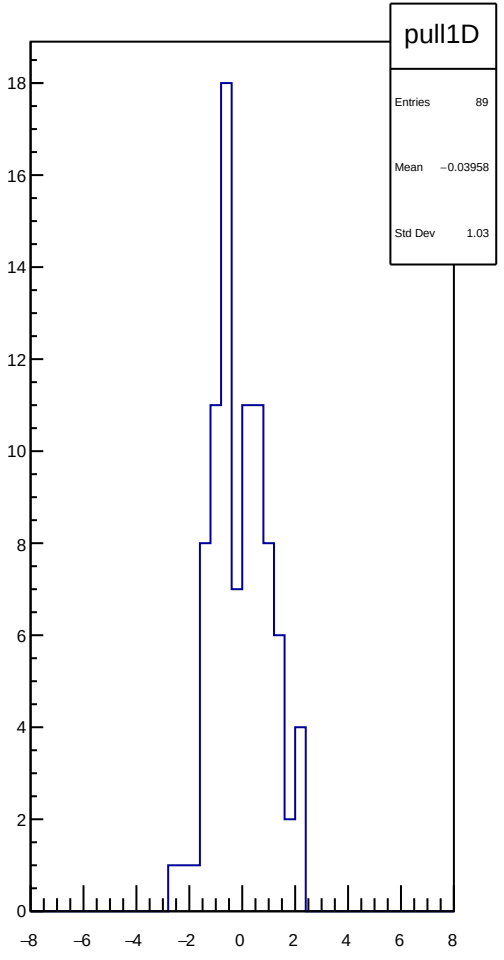

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.589e+04 / 88
p0 34.64 ± 0.02696
140
120
100
80
60
40
20

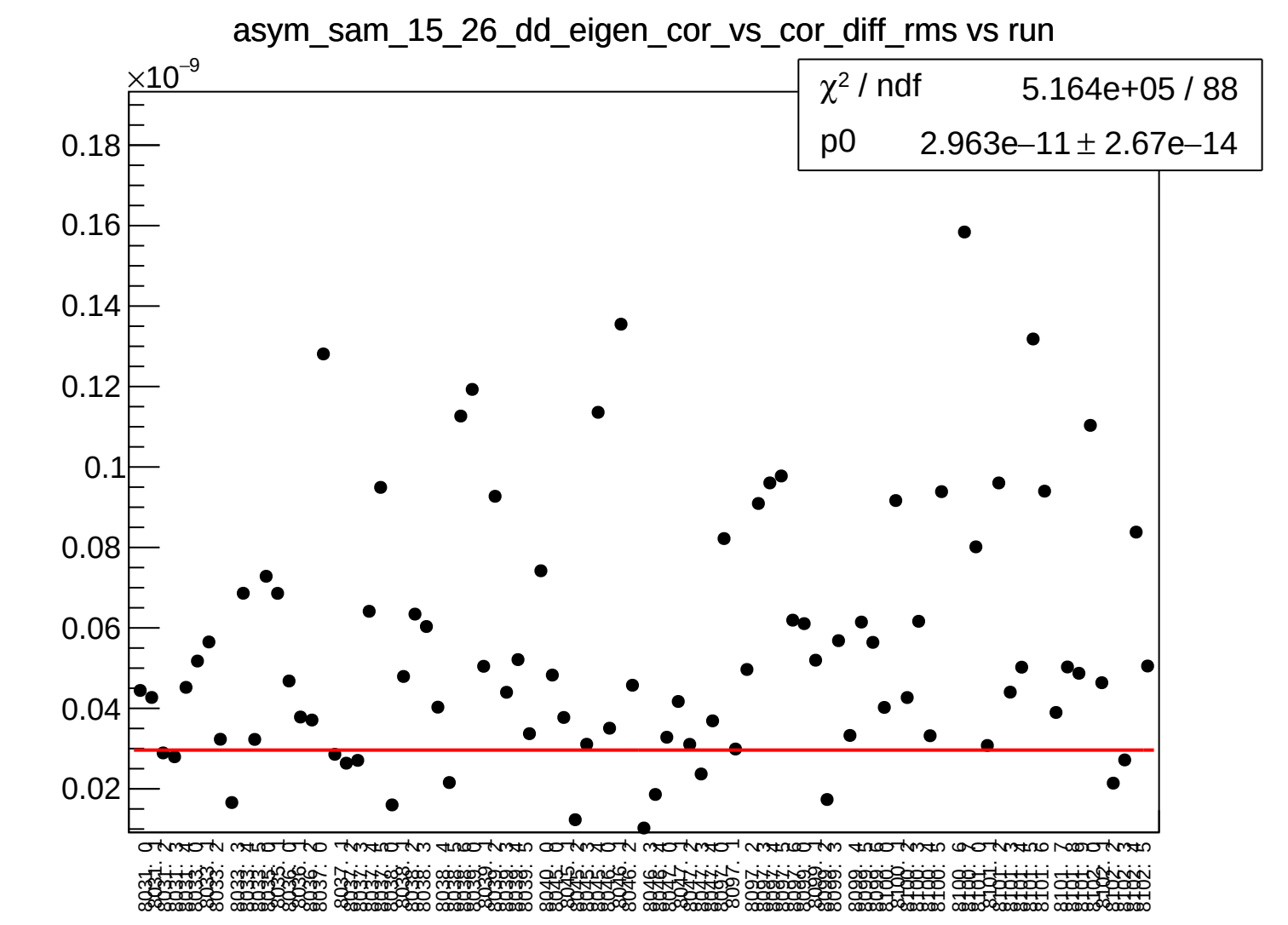

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.5 / 88
p0 −0.07271 ± 0.03812
pull
Entries 89
Mean −130.2
Std Dev 0

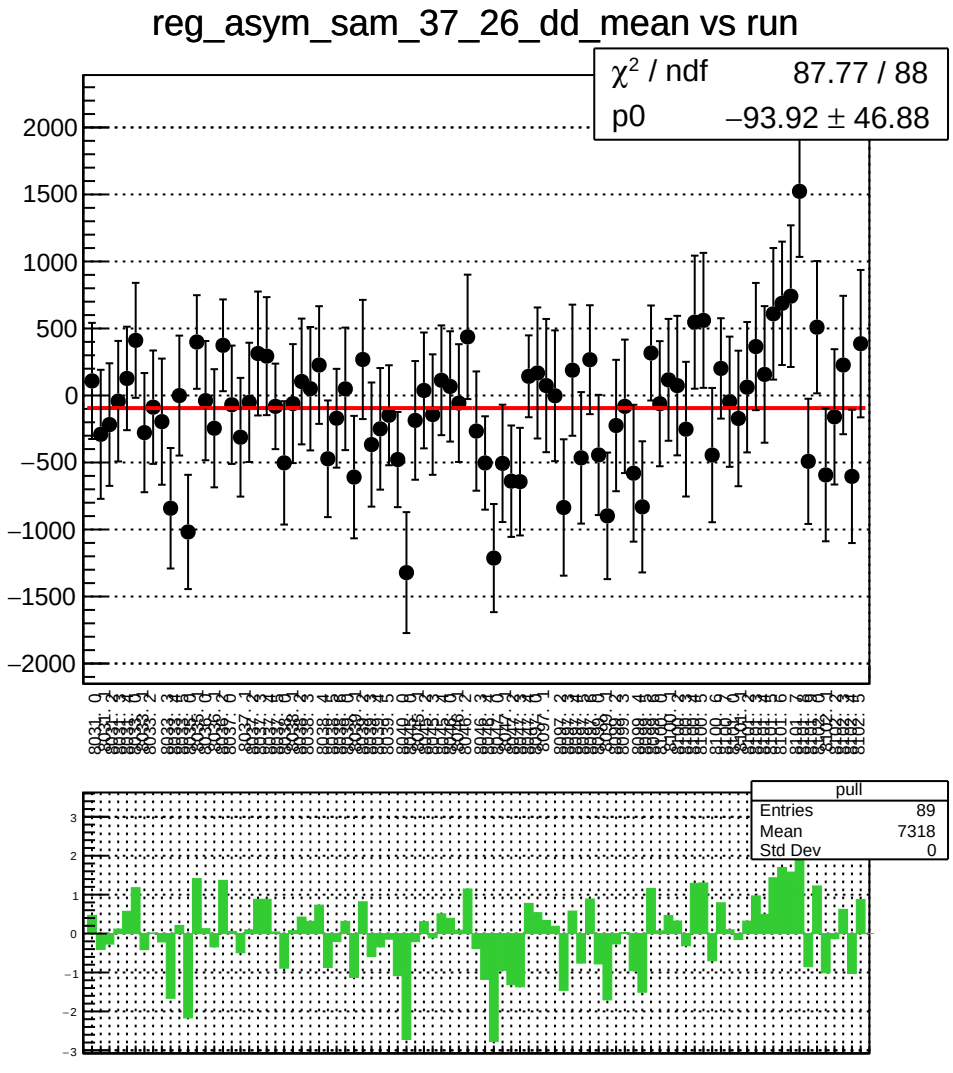

pull1D
Entries 89
Mean 0.02573
Std Dev 0.8959

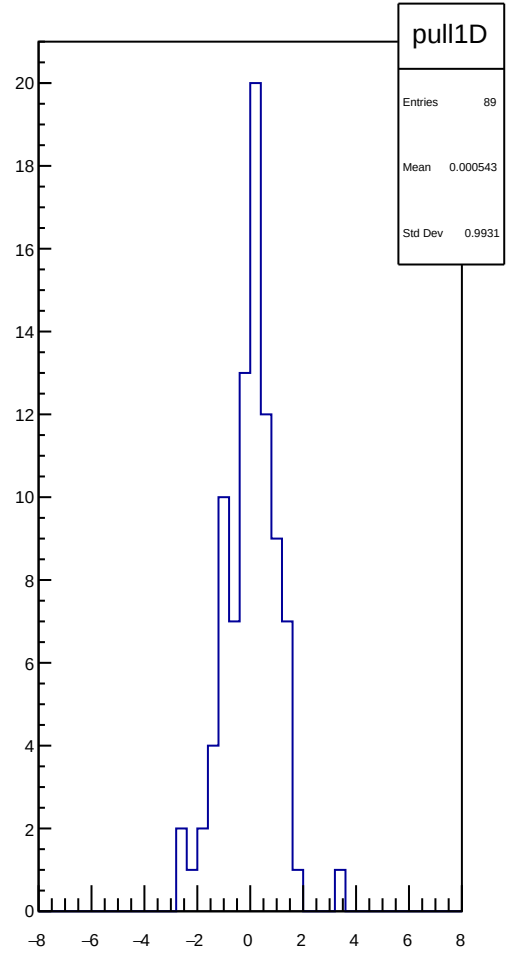

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.589e+04 / 88
p0 34.64 ± 0.02696
140
120
100
80
60
40
20

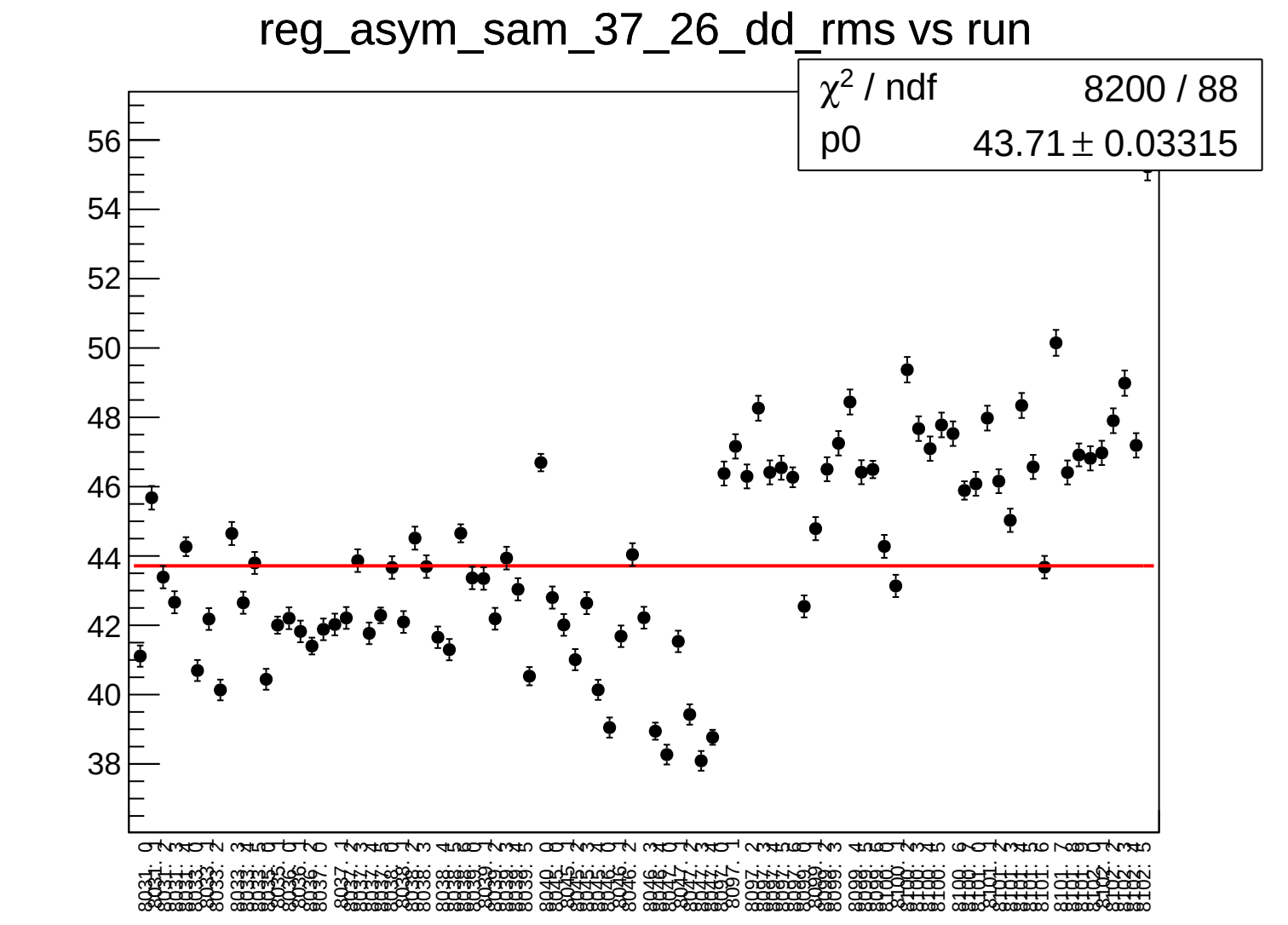

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.51 / 88
p0 −6.312e−14 ± 3.776e−14
pull
Entries 89
Mean 77.26
Std Dev 0

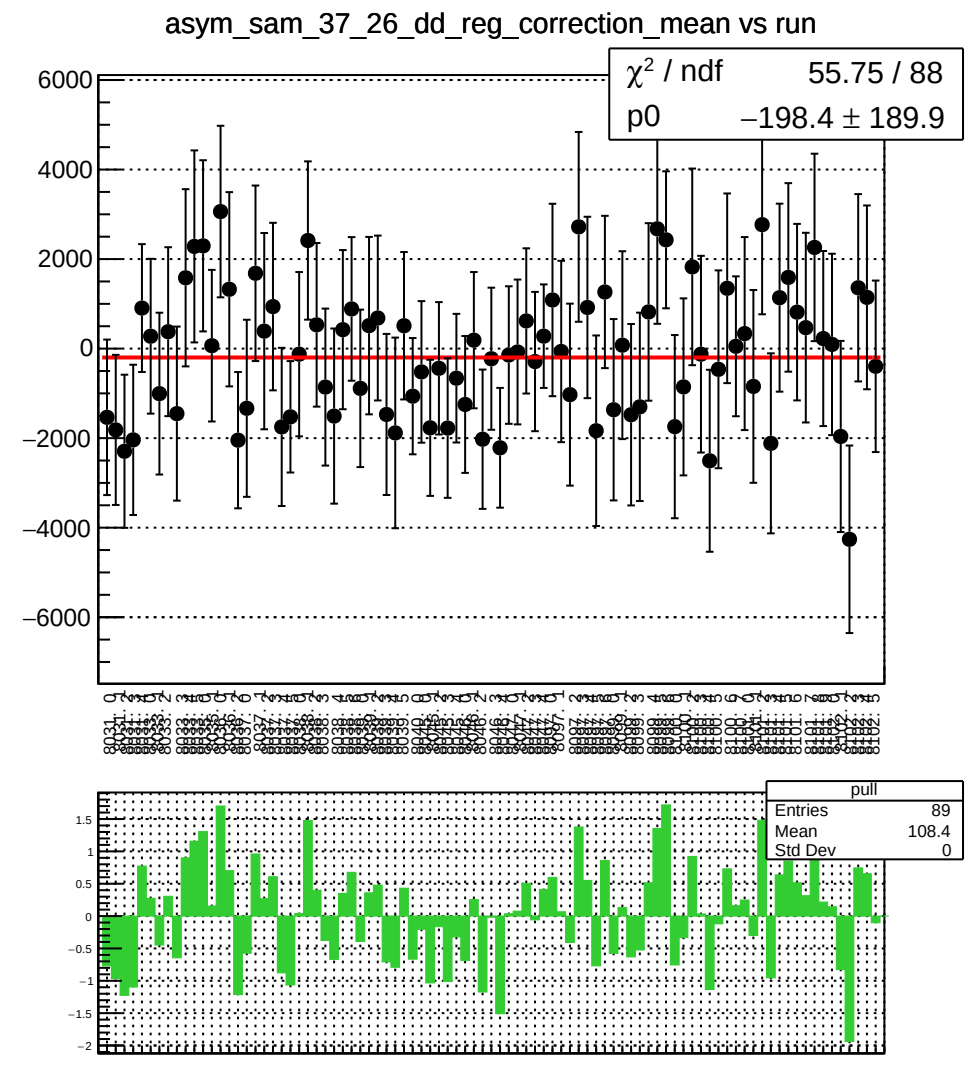

pull1D
Entries 89
Mean −0.03958
Std Dev 1.03

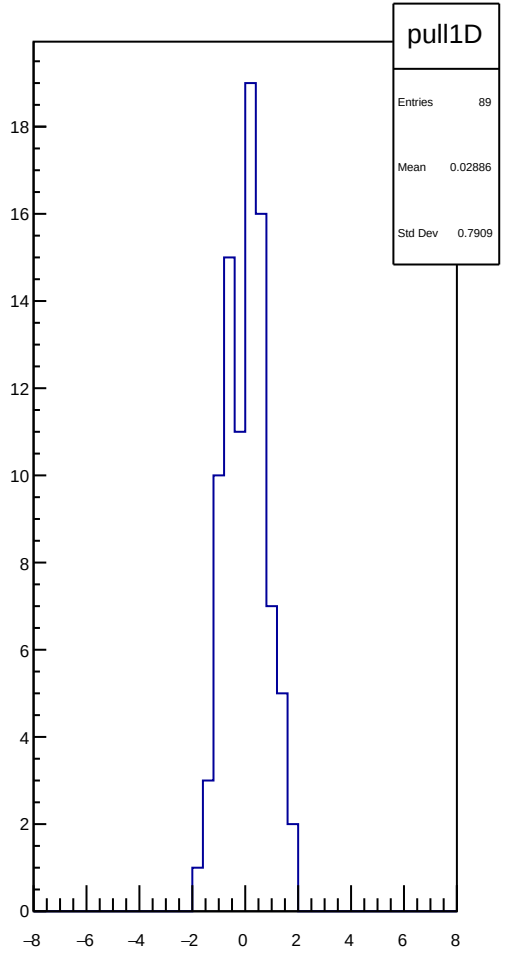

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.164e+05 / 88
p0 2.963e−11 ± 2.67e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

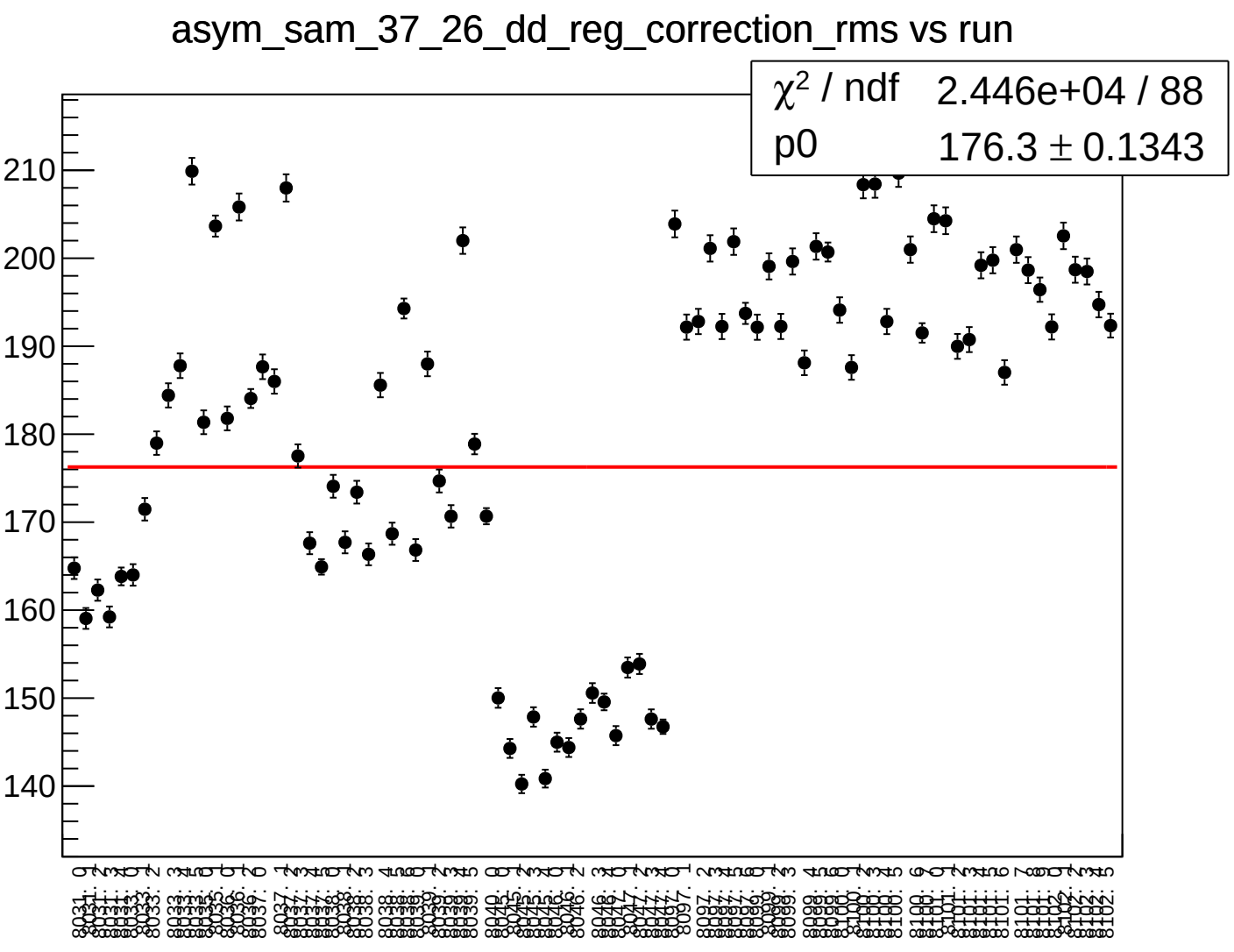

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 87.77 / 88
p0 −93.92 ± 46.88
pull
Entries 89
Mean 7318
Std Dev 0

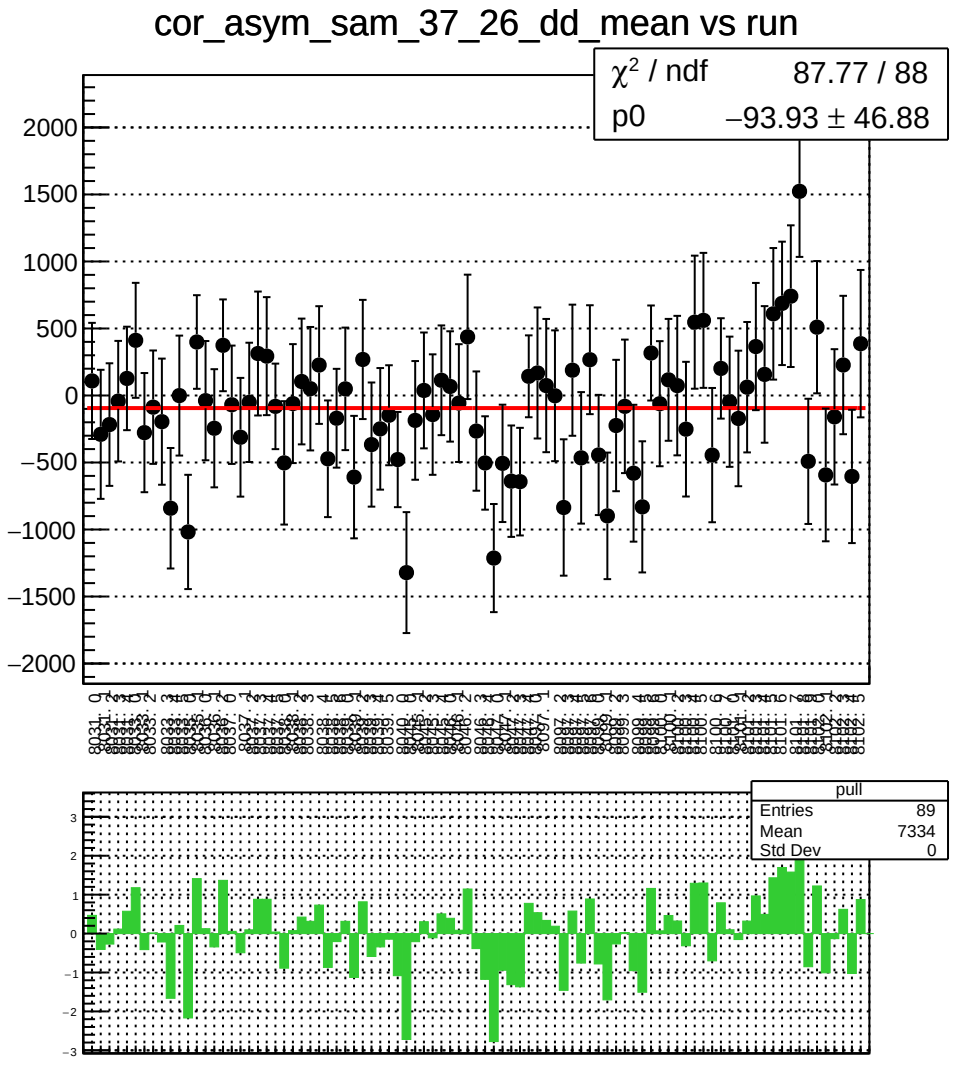

pull1D
Entries 89
Mean 0.000543
Std Dev 0.9931

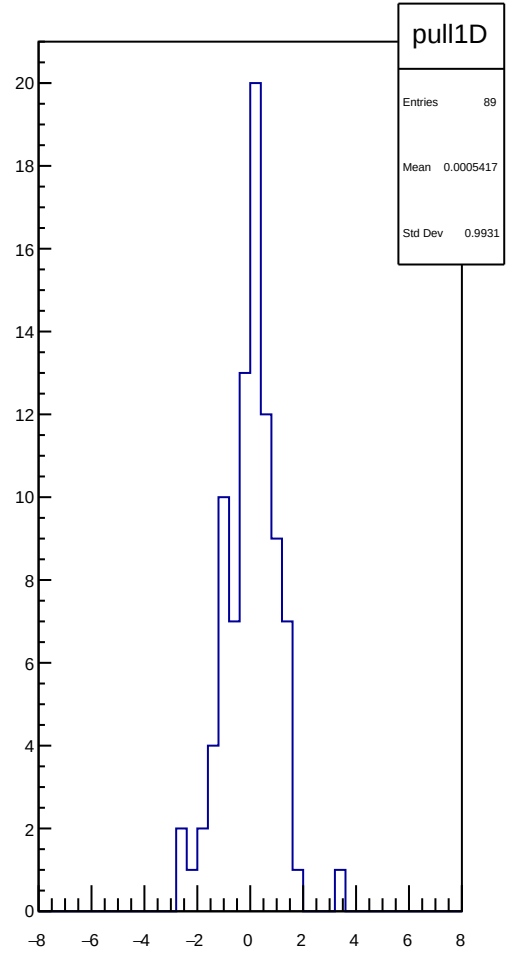

reg_asym_sam_37_26_dd_rms vs run
$\chi^2$ / ndf 8200 / 88
p0 43.71 ± 0.03315
56
54
52
50
48
46
44
42
40
38

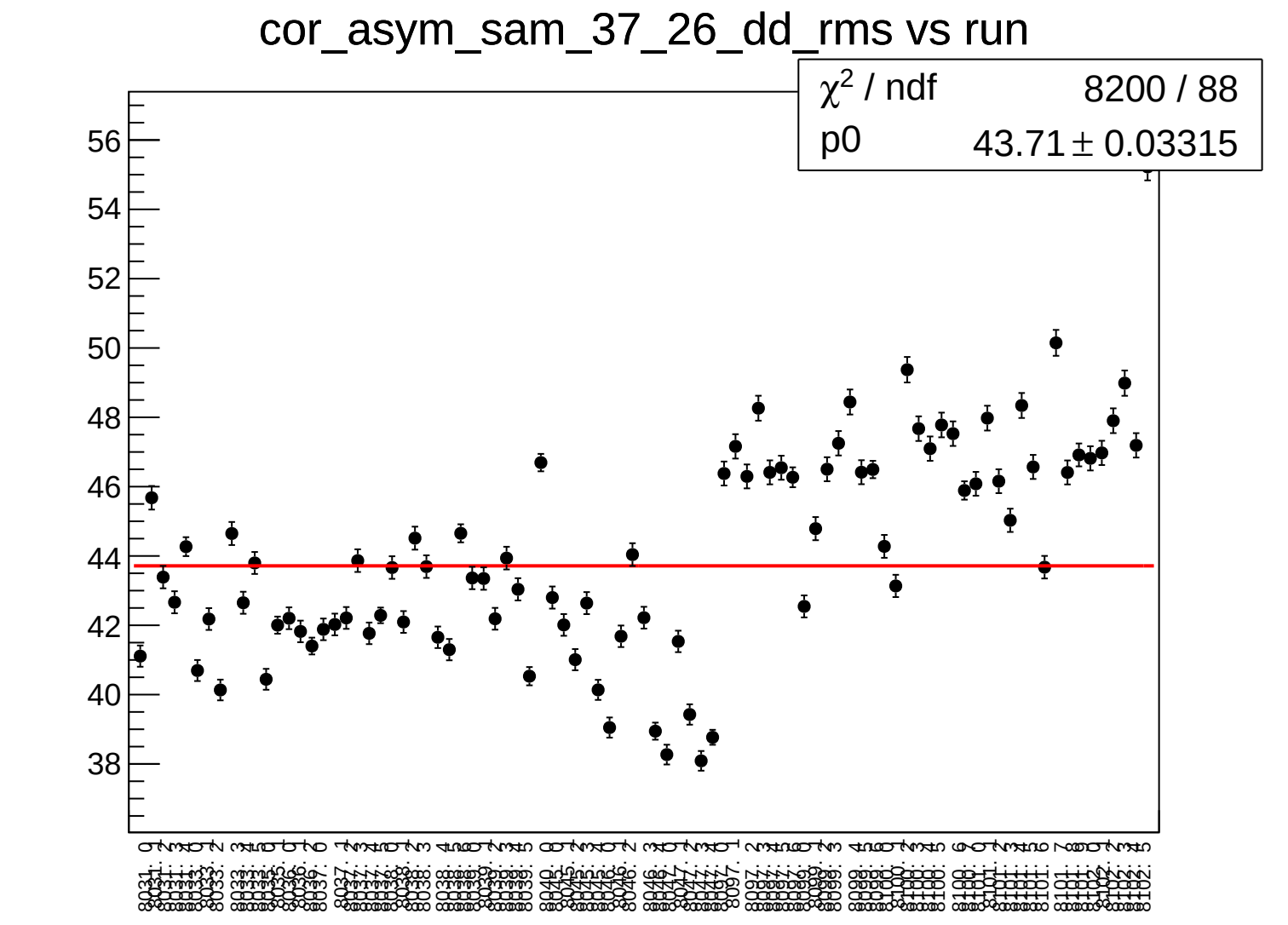

asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 55.75 / 88
p0 −198.4 ± 189.9
pull
Entries 89
Mean 108.4
Std Dev 0

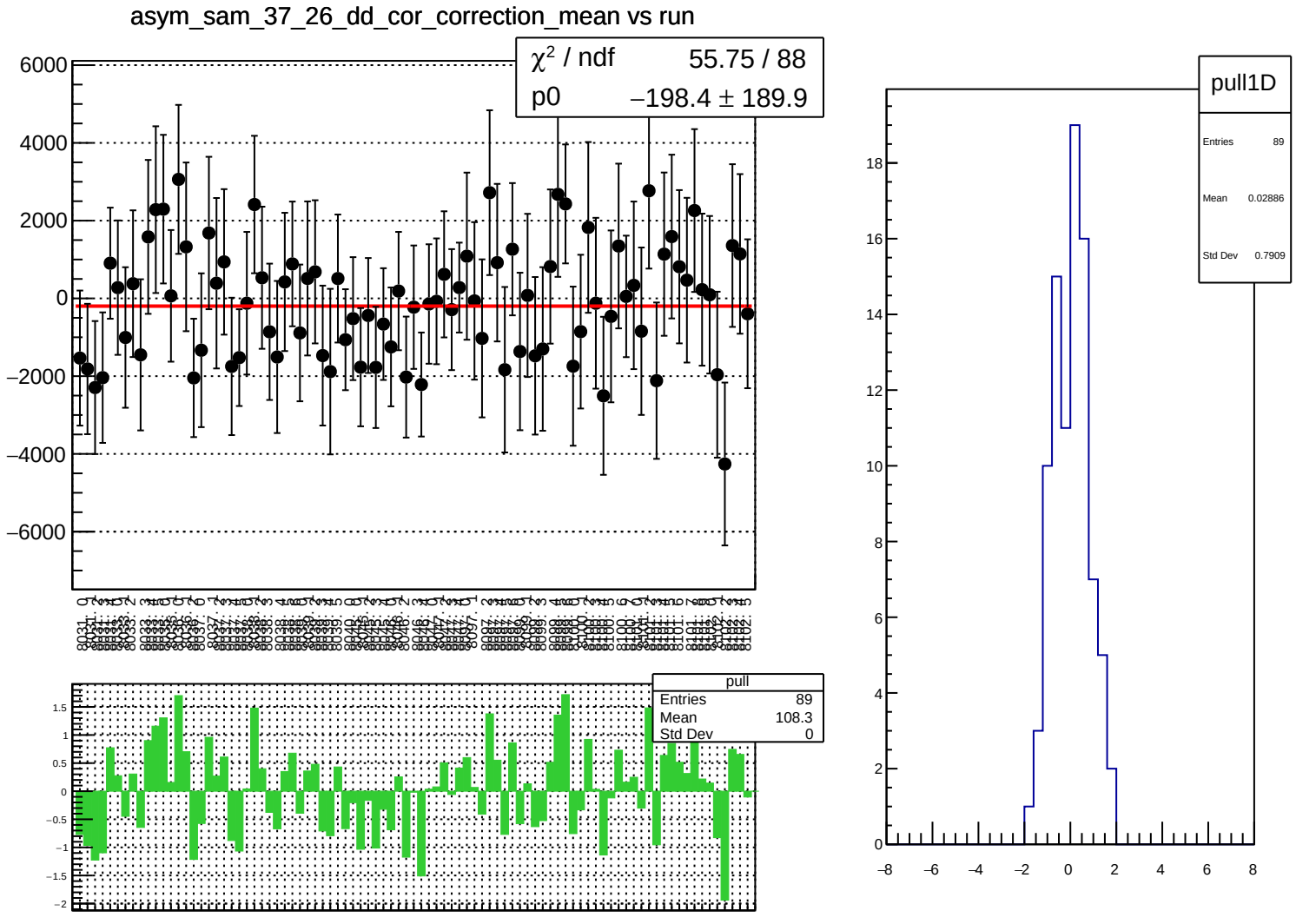

pull1D
Entries 89
Mean 0.02886
Std Dev 0.7909

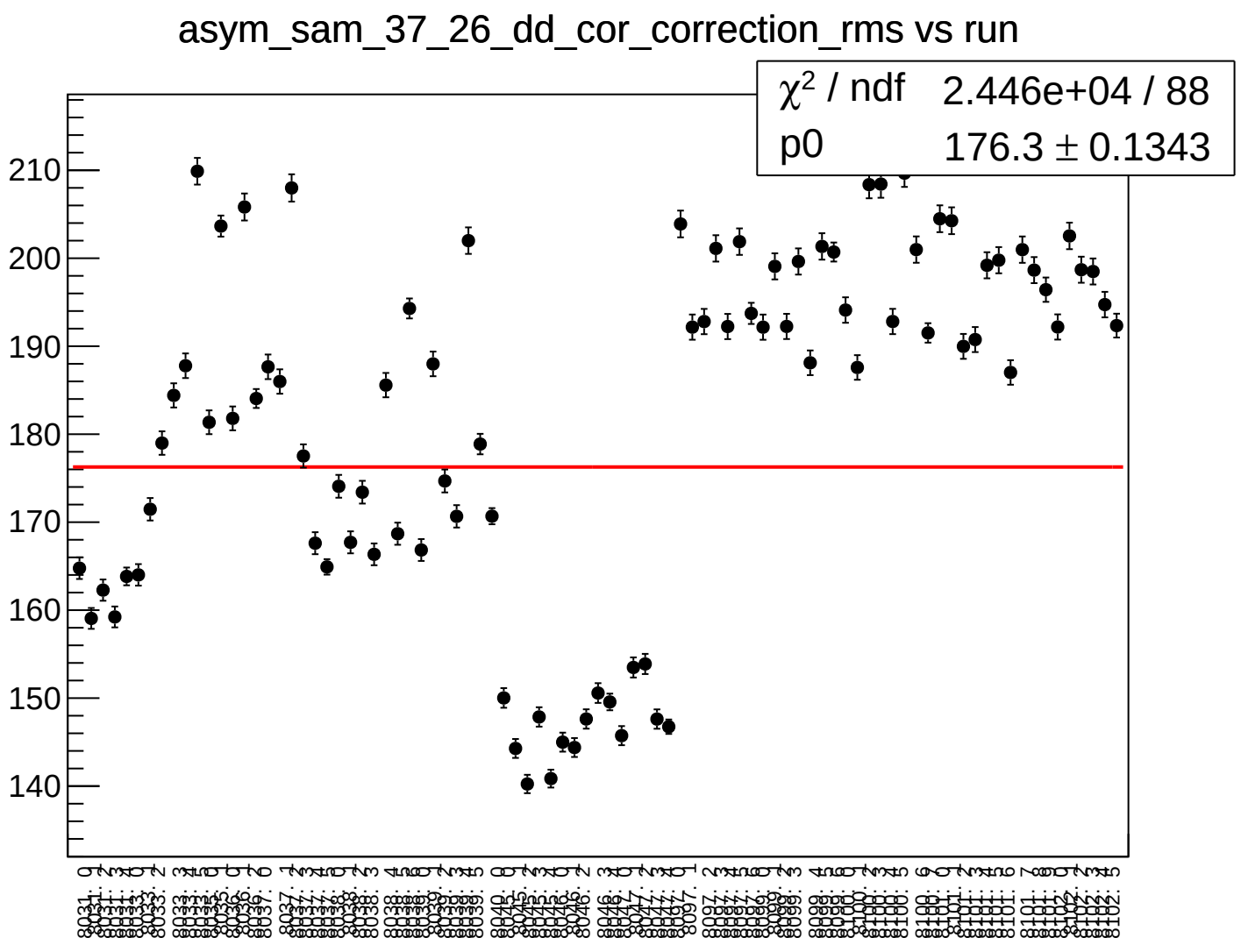

asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 2.446e+04 / 88
p0 176.3 ± 0.1343
210
200
190
180
170
160
150
140

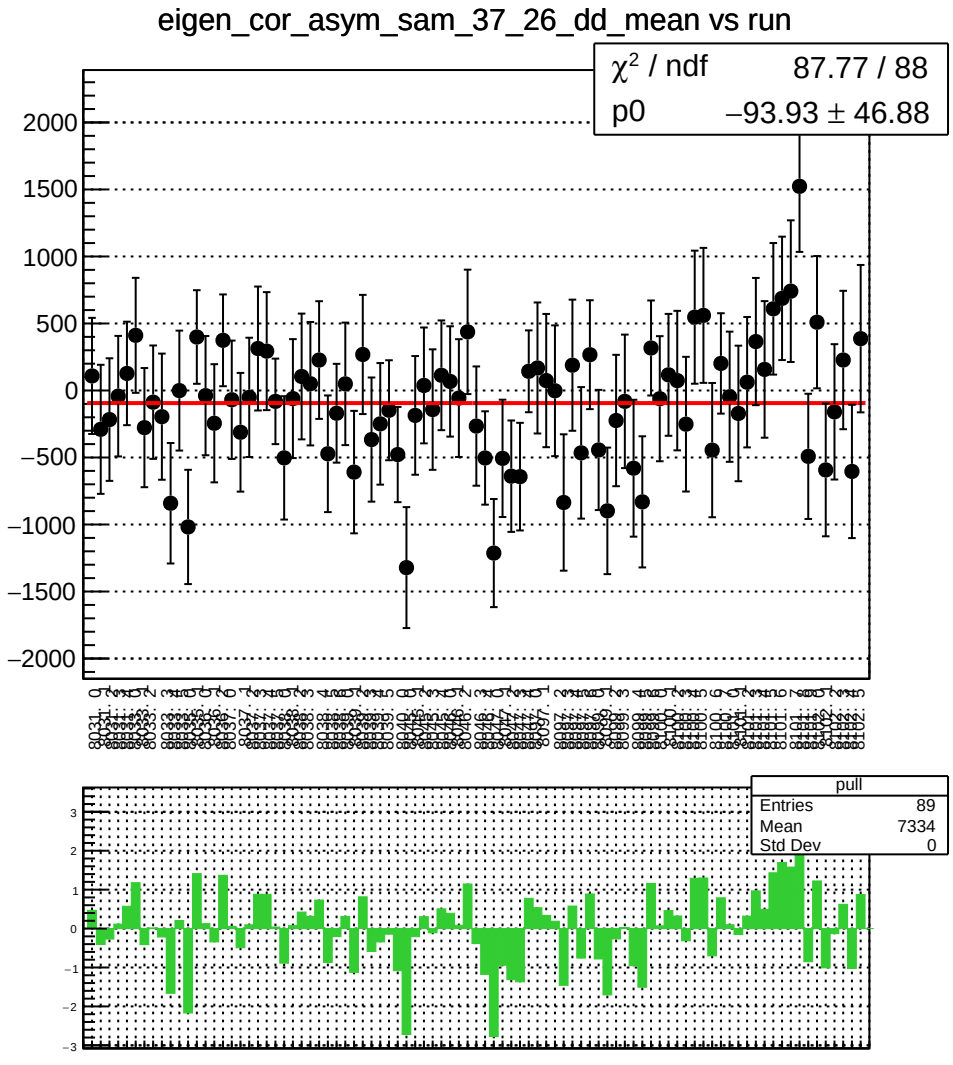

cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 87.77 / 88
p0 −93.93 ± 46.88
pull
Entries 89
Mean 7334
Std Dev 0

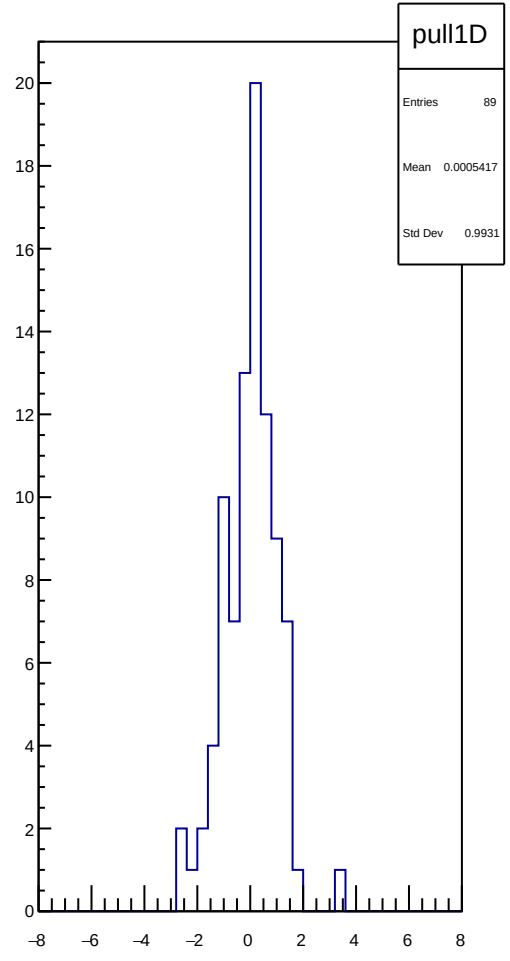

pull1D
Entries 89
Mean 0.0005417
Std Dev 0.9931

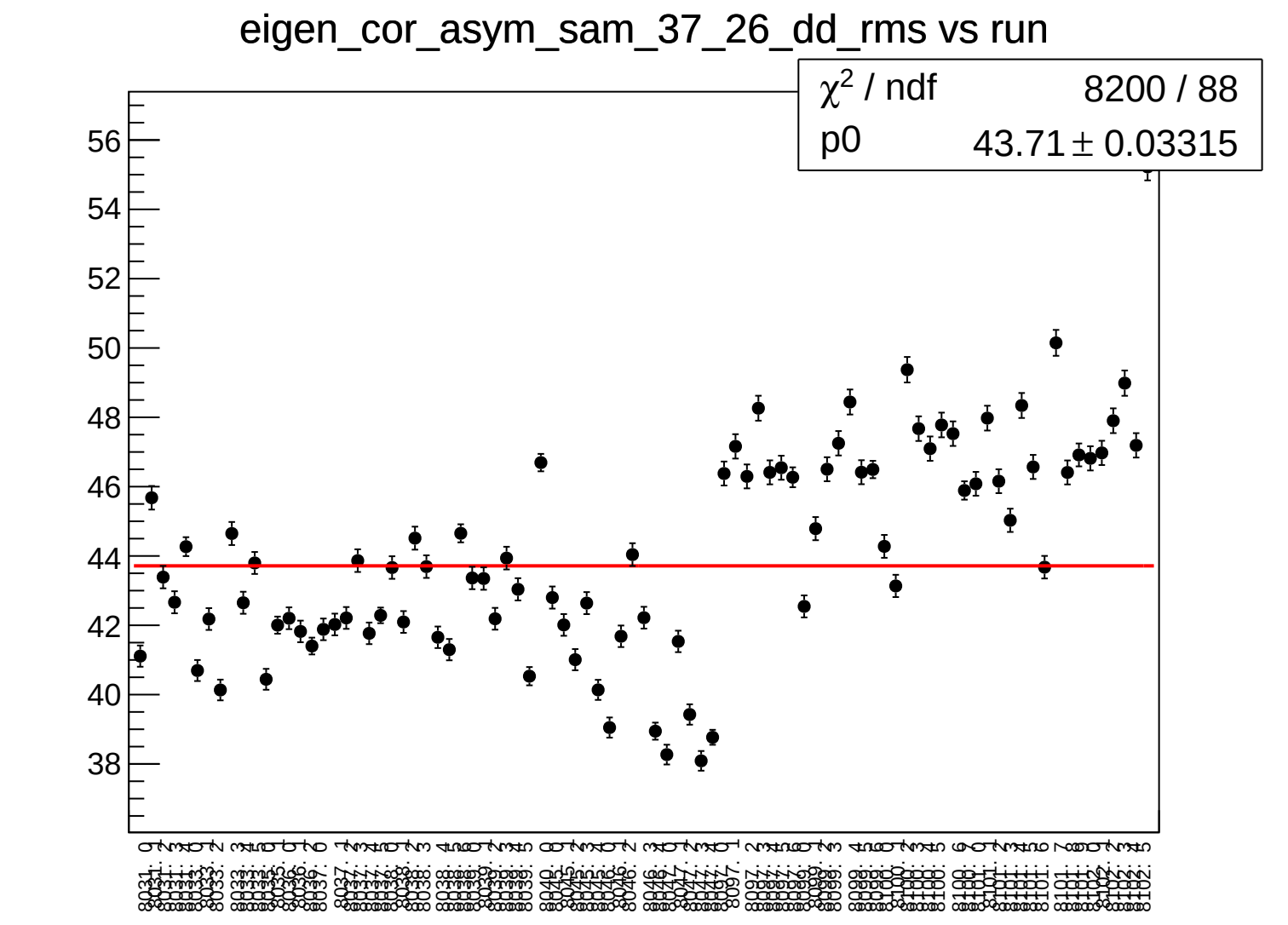

cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 8200 / 88
p0 43.71 ± 0.03315
56
54
52
50
48
46
44
42
40
38

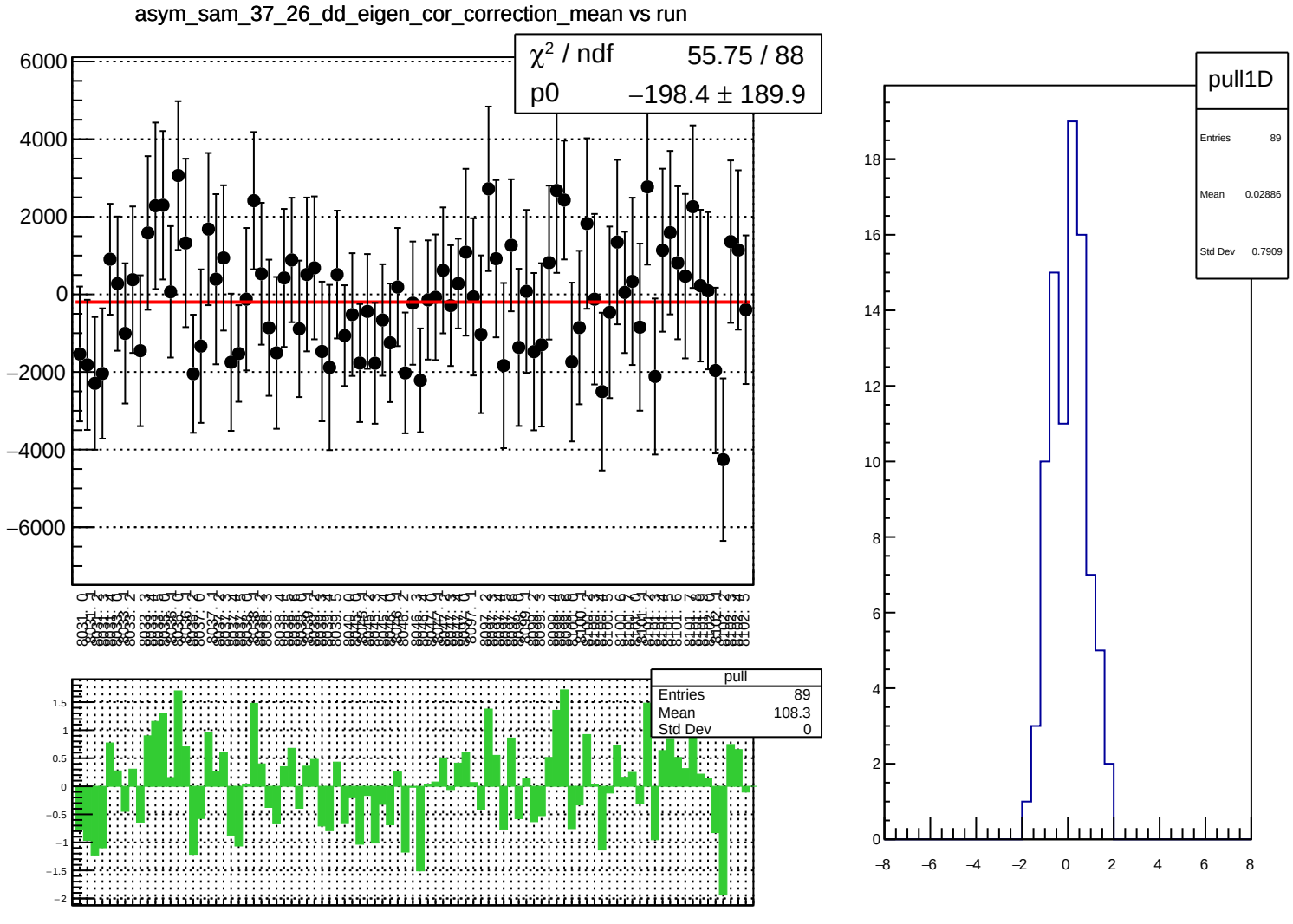

asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 55.75 / 88
p0 −198.4 ± 189.9
pull
Entries 89
Mean 108.3
Std Dev 0
pull1D
Entries 89
Mean 0.02886
Std Dev 0.7909

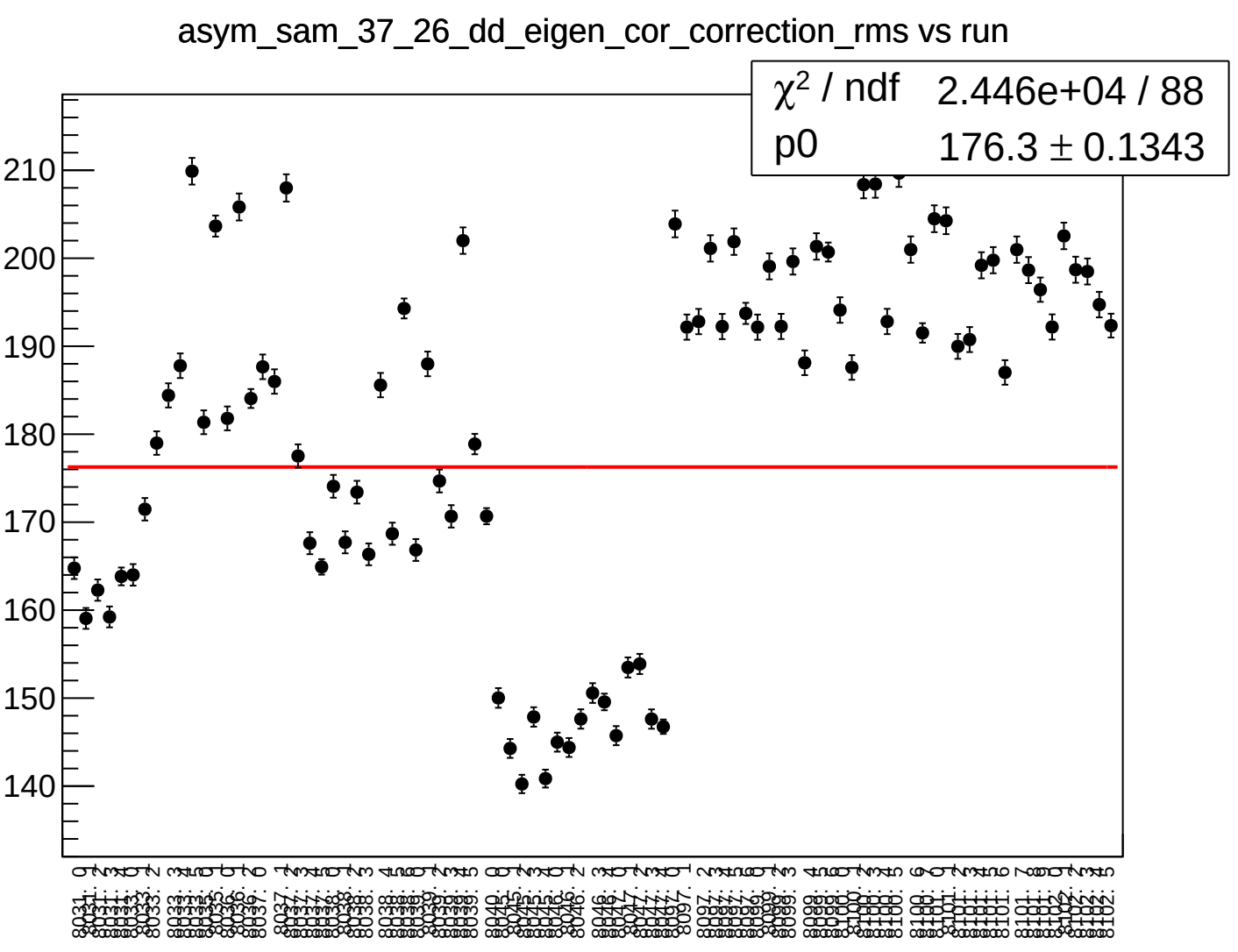

asym_sam_37_26_dd_cor_correction_rms vs run
χ² / ndf 2.446e+04 / 88
p0 176.3 ± 0.1343
210
200
190
180
170
160
150
140

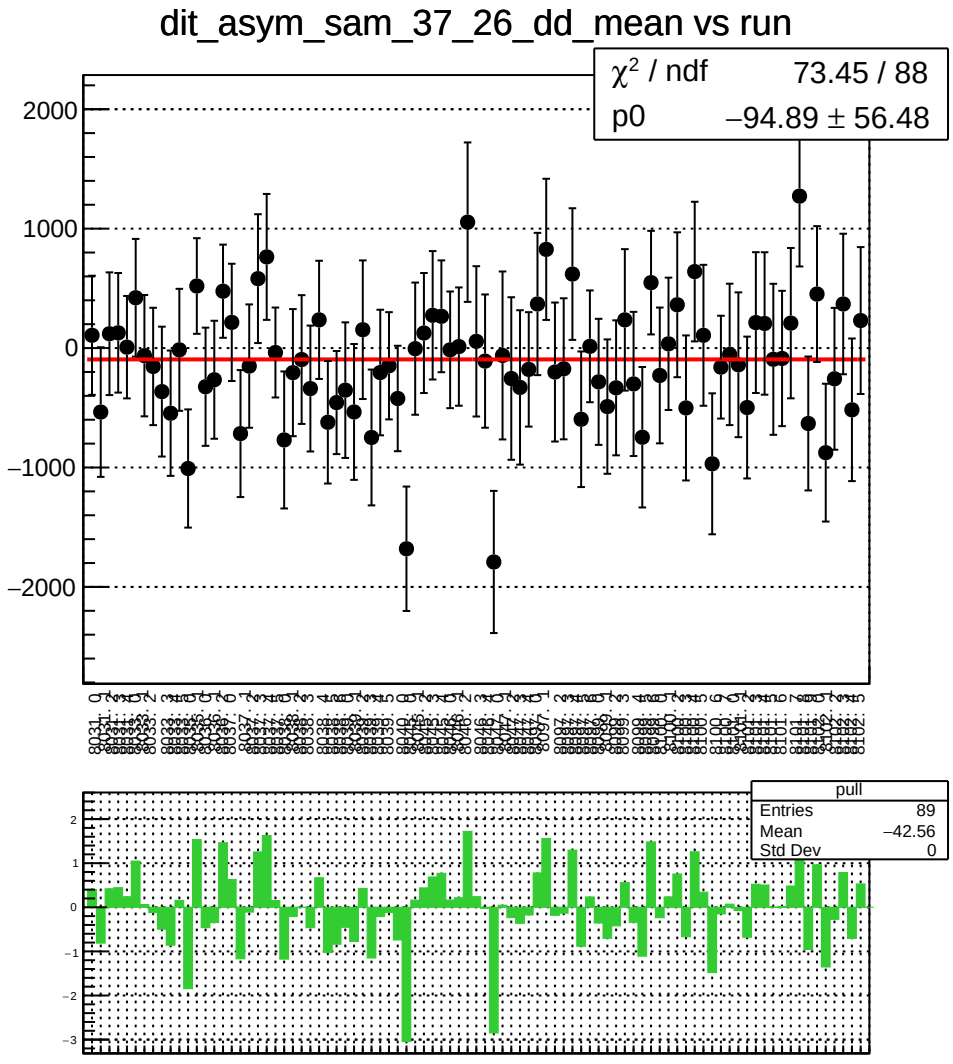

eigen_cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 87.77 / 88
p0 −93.93 ± 46.88
pull
Entries 89
Mean 7334
Std Dev 0

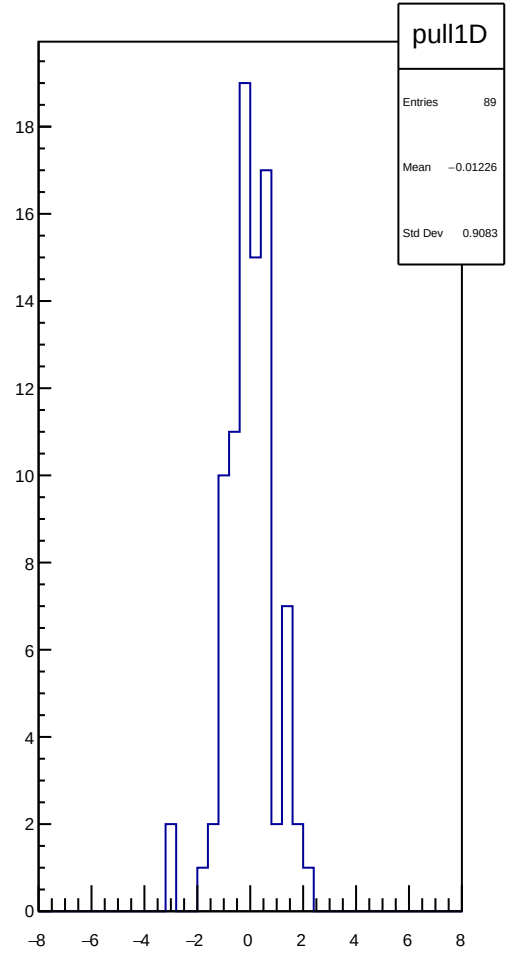

pull1D
Entries 89
Mean 0.0005417
Std Dev 0.9931

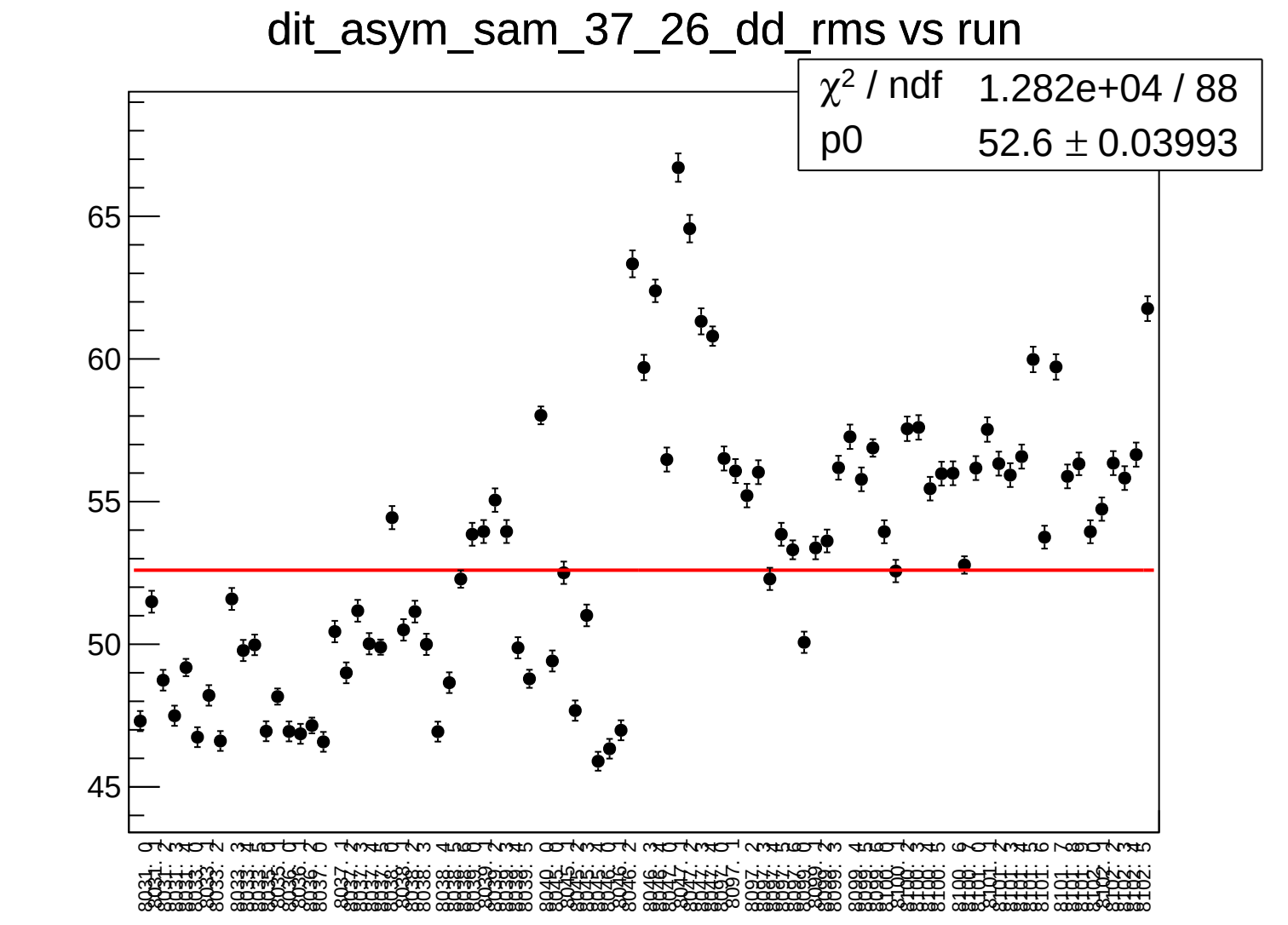

eigen_cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 8200 / 88
p0 43.71 ± 0.03315
56
54
52
50
48
46
44
42
40
38

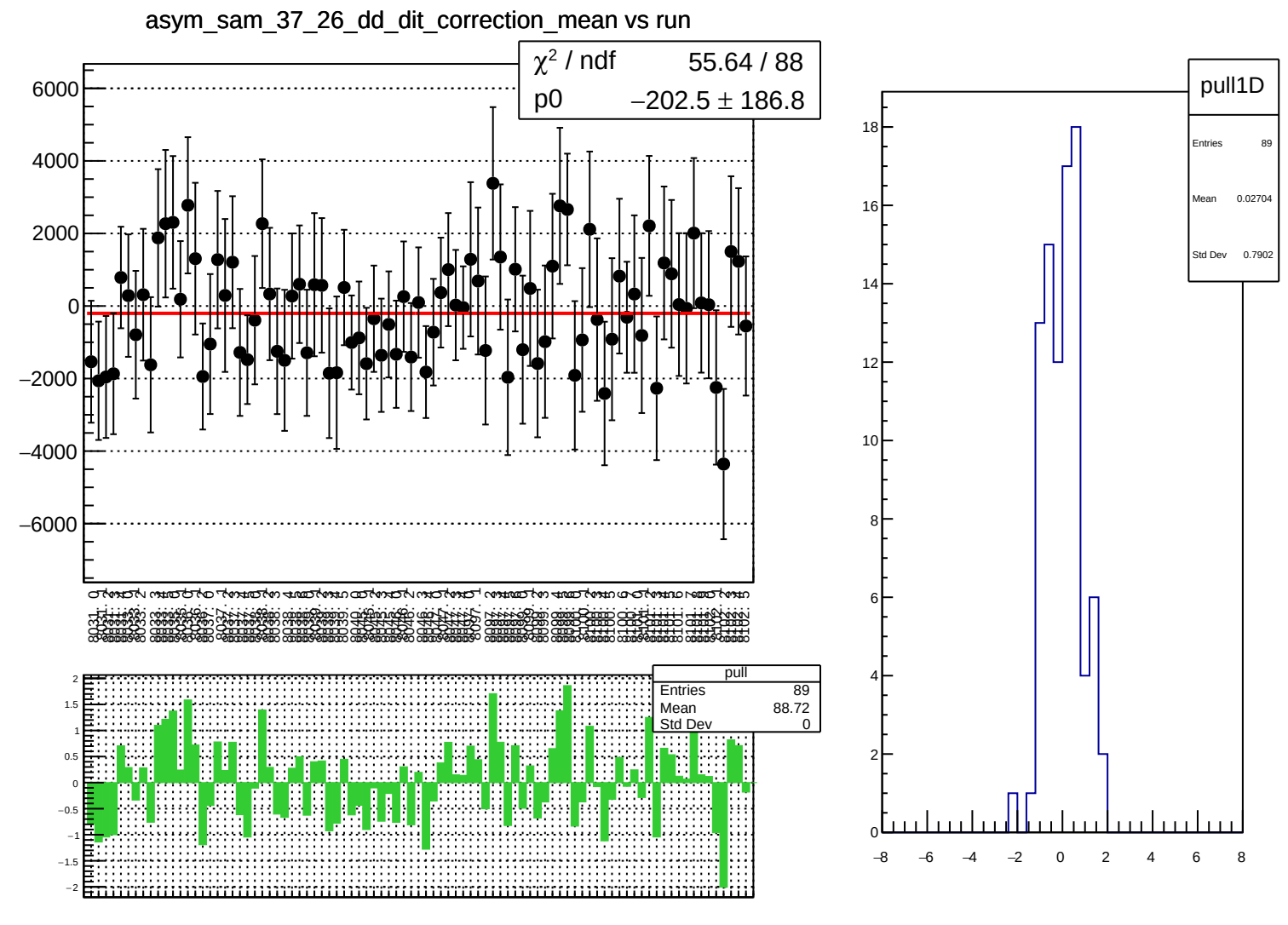

asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 55.75 / 88
p0 −198.4 ± 189.9
pull
Entries 89
Mean 108.3
Std Dev 0
pull1D
Entries 89
Mean 0.02886
Std Dev 0.7909

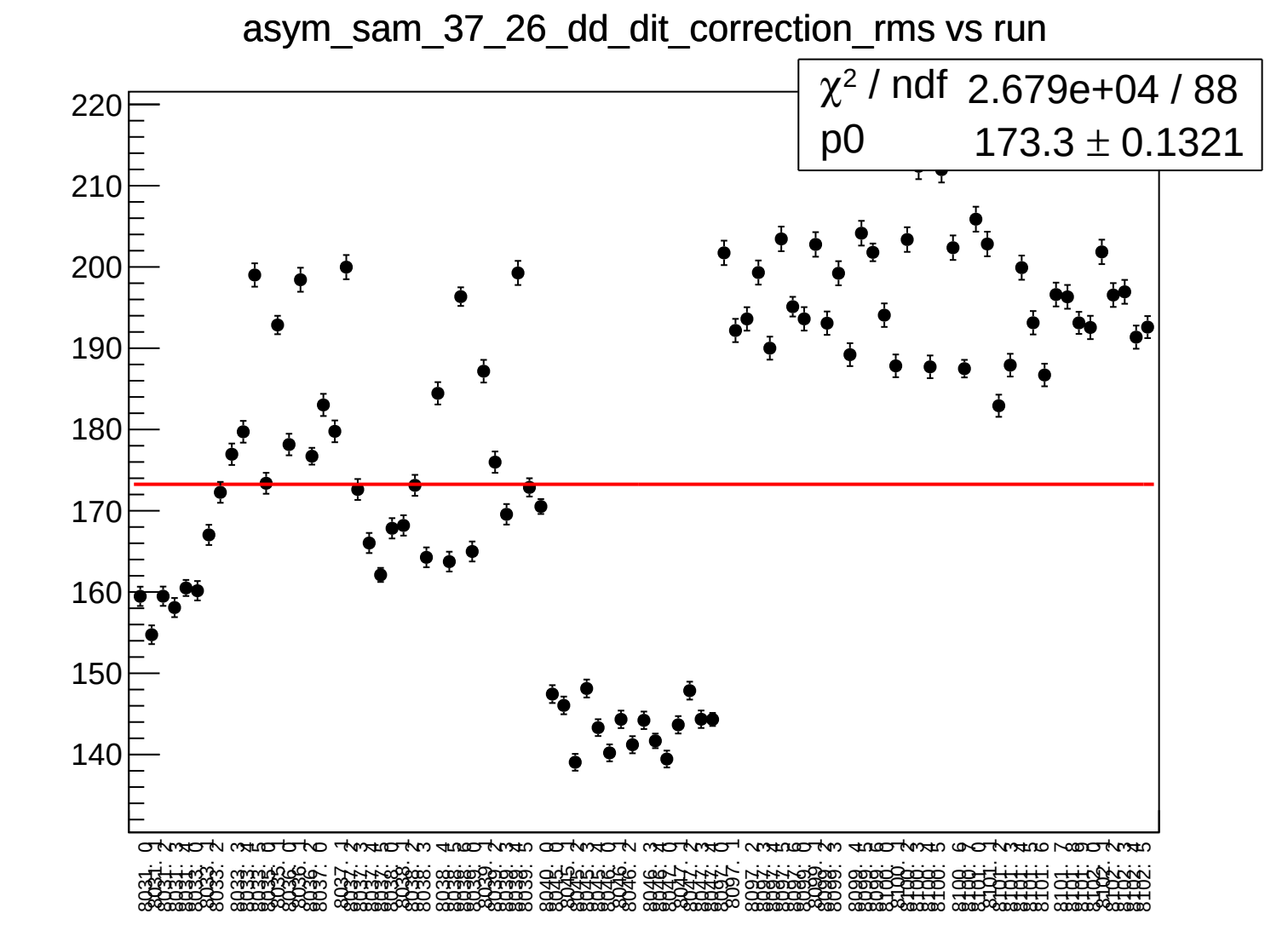

asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.446e+04 / 88
p0 176.3 ± 0.1343
210
200
190
180
170
160
150
140

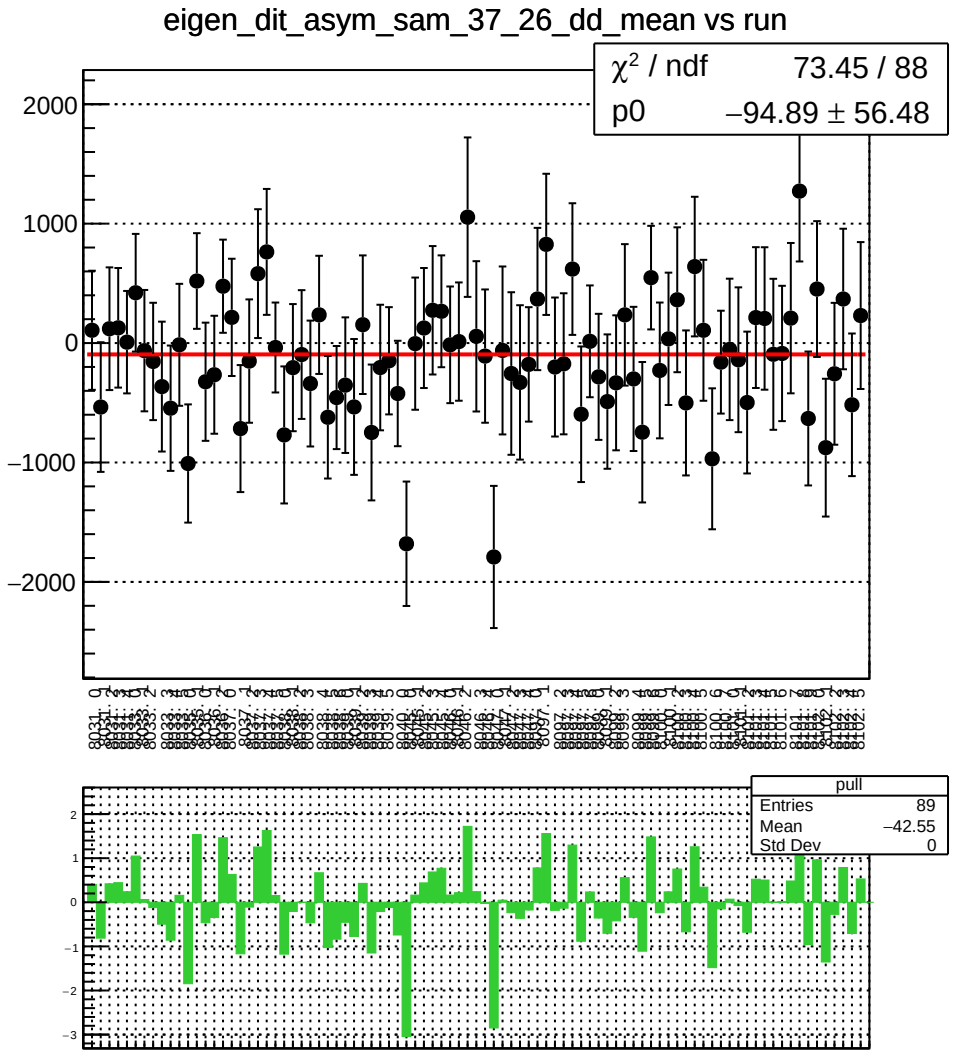

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 73.45 / 88
p0 −94.89 ± 56.48
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −42.56
Std Dev 0
2
1
0
−1
−2
−3

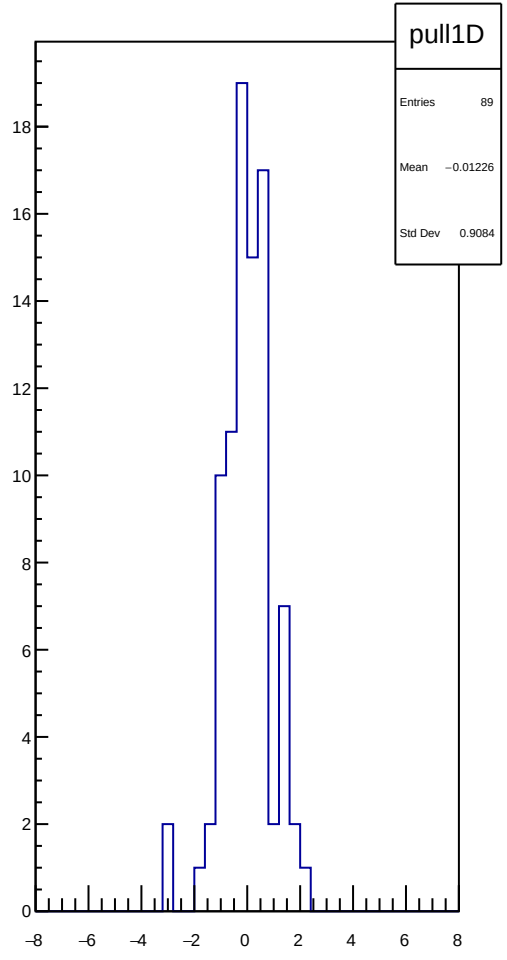

pull1D
Entries 89
Mean −0.01226
Std Dev 0.9083
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

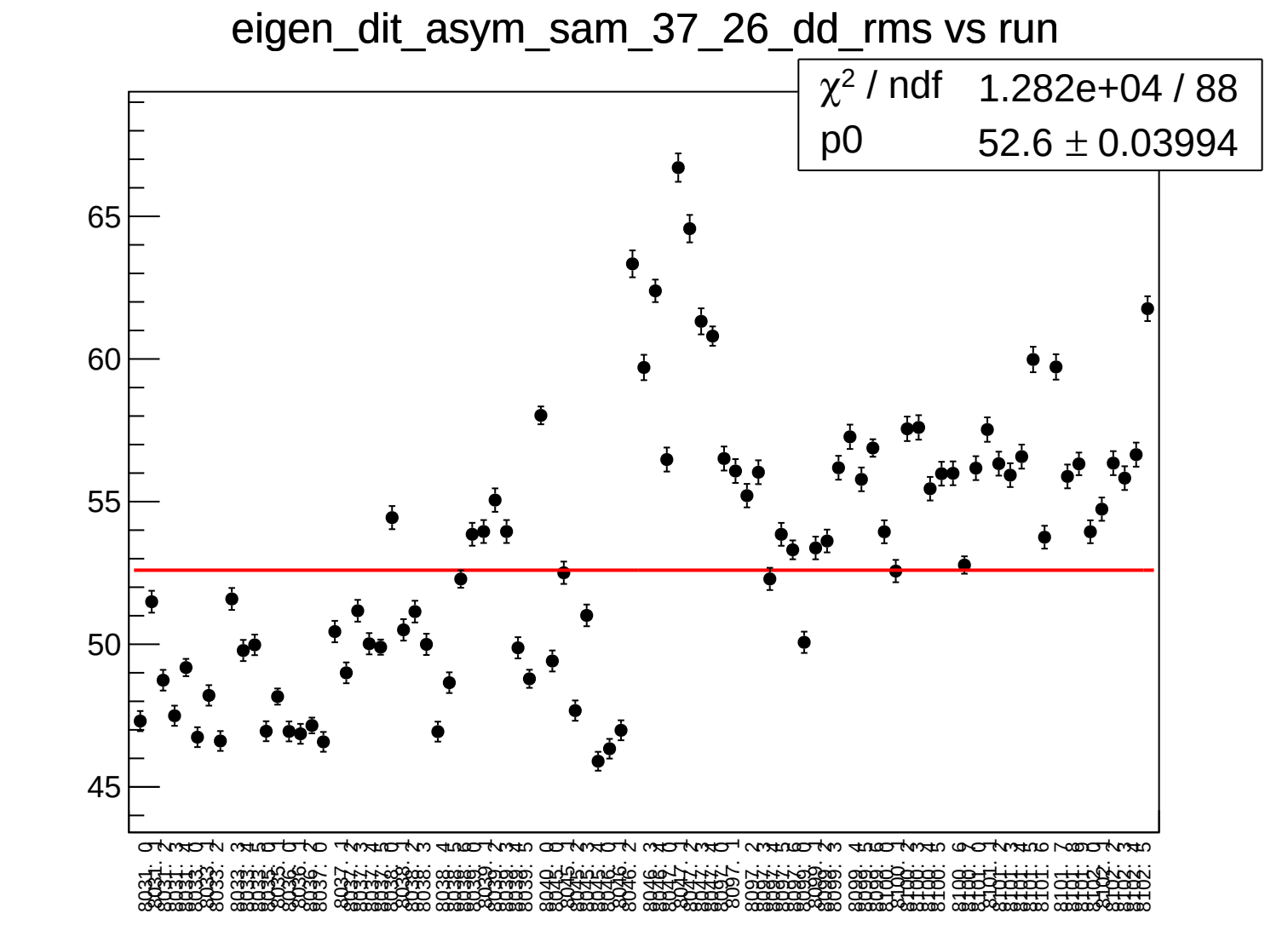

dit_asym_sam_37_26_dd_rms vs run
$\chi^2$ / ndf 1.282e+04 / 88
p0 52.6 ± 0.03993
65
60
55
50
45

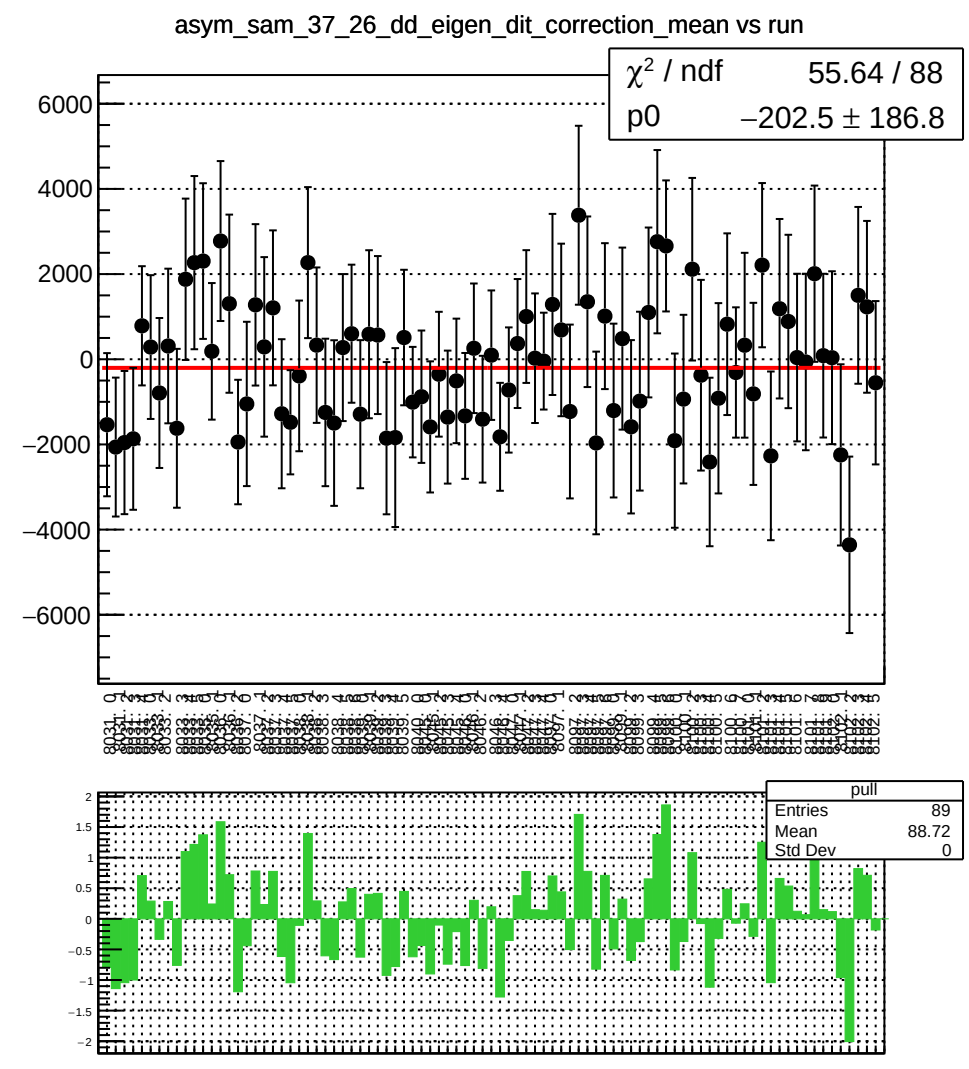

asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 55.64 / 88
p0 −202.5 ± 186.8
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 88.72
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean 0.02704
Std Dev 0.7902
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

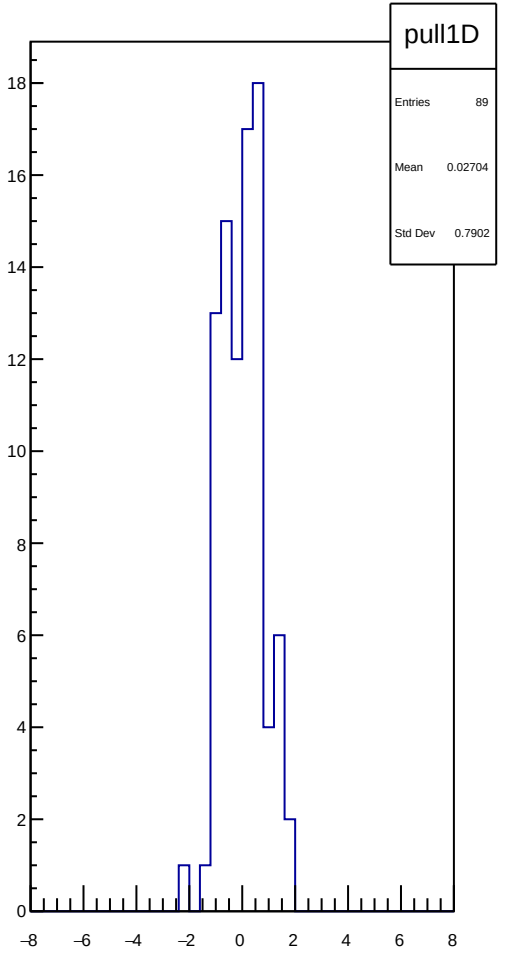

asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 2.679e+04 / 88
p0 173.3 ± 0.1321
220
210
200
190
180
170
160
150
140

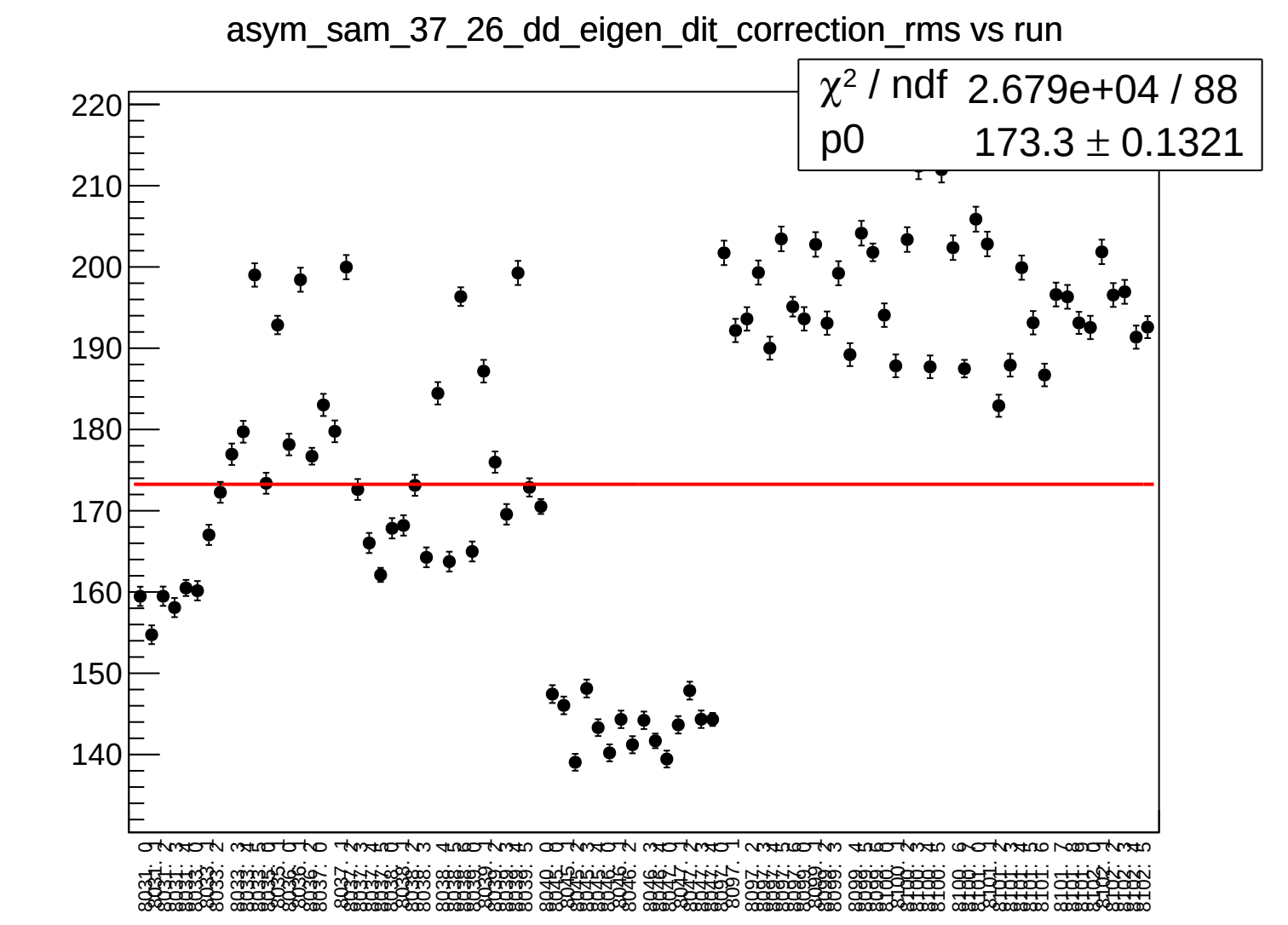

eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 73.45 / 88
p0 −94.89 ± 56.48
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −42.55
Std Dev 0
2
1
0
−1
−2
−3

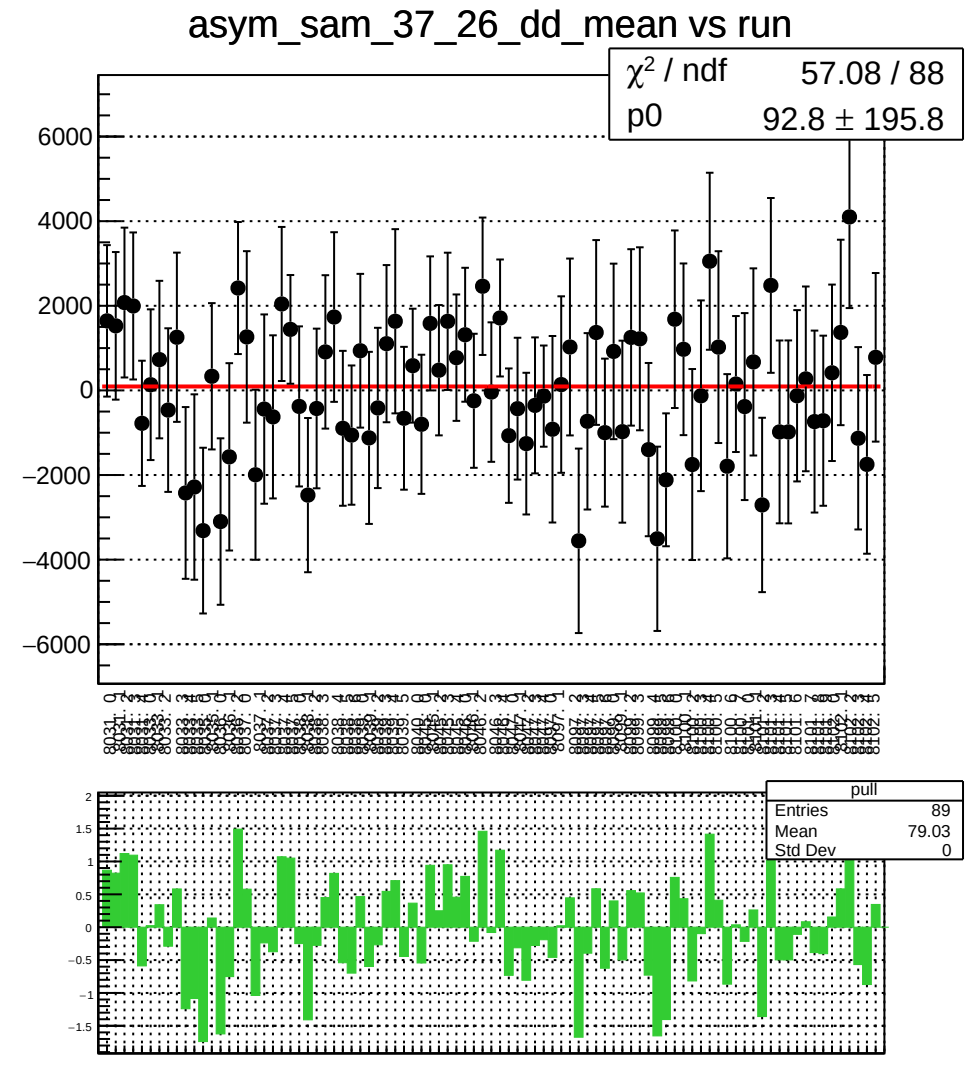

pull1D
Entries 89
Mean −0.01226
Std Dev 0.9084
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

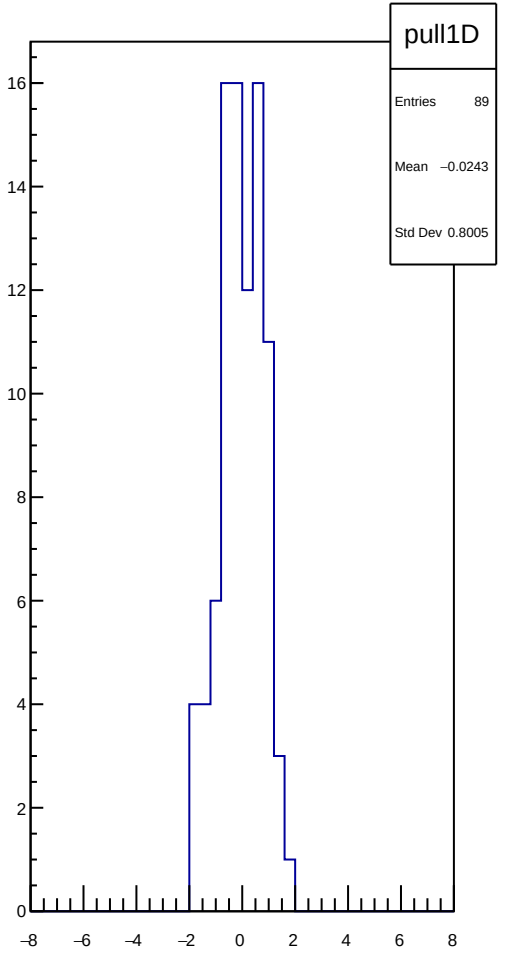

eigen_dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 1.282e+04 / 88
p0 52.6 ± 0.03994
65
60
55
50
45

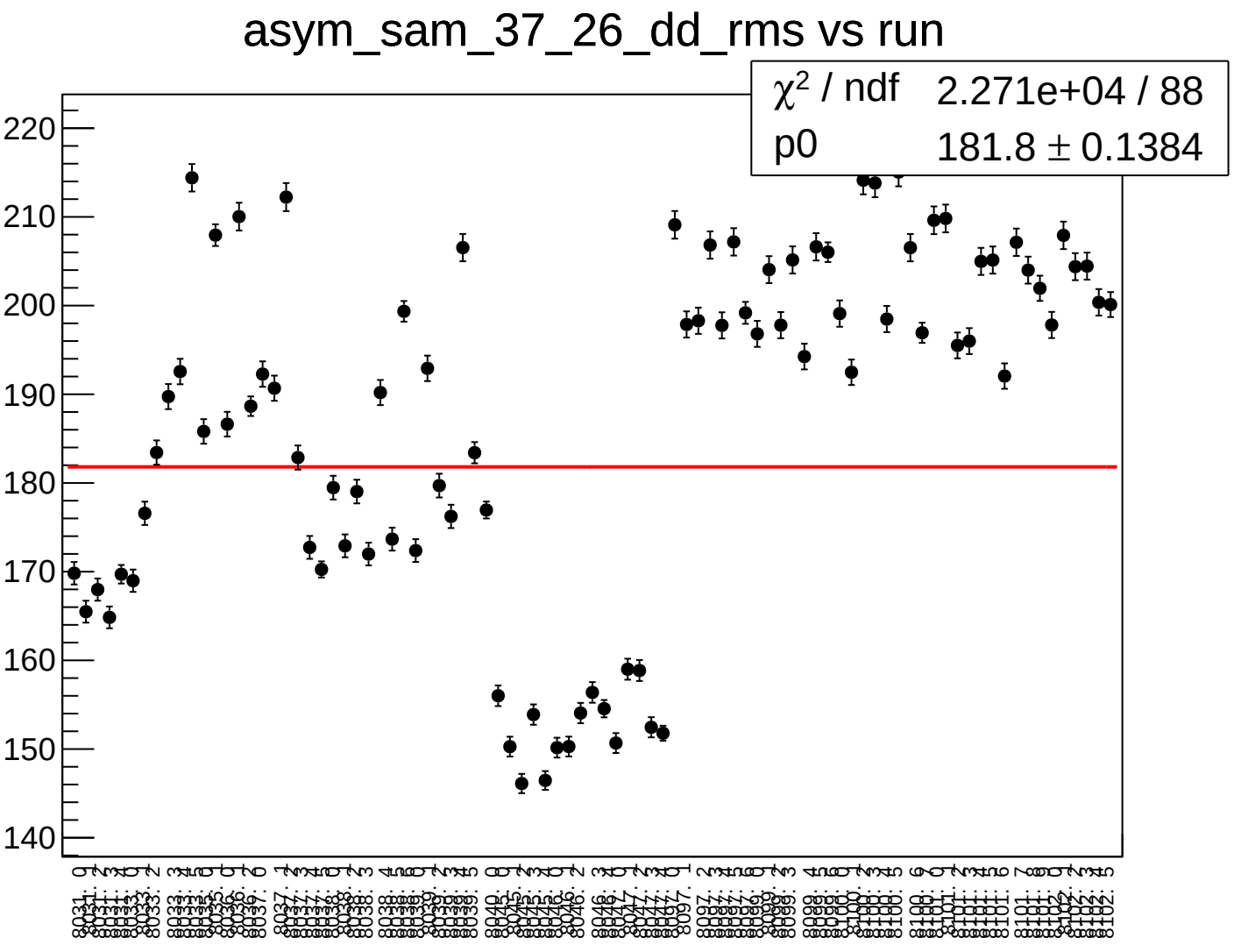

asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 55.64 / 88
p0 −202.5 ± 186.8
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 88.72
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

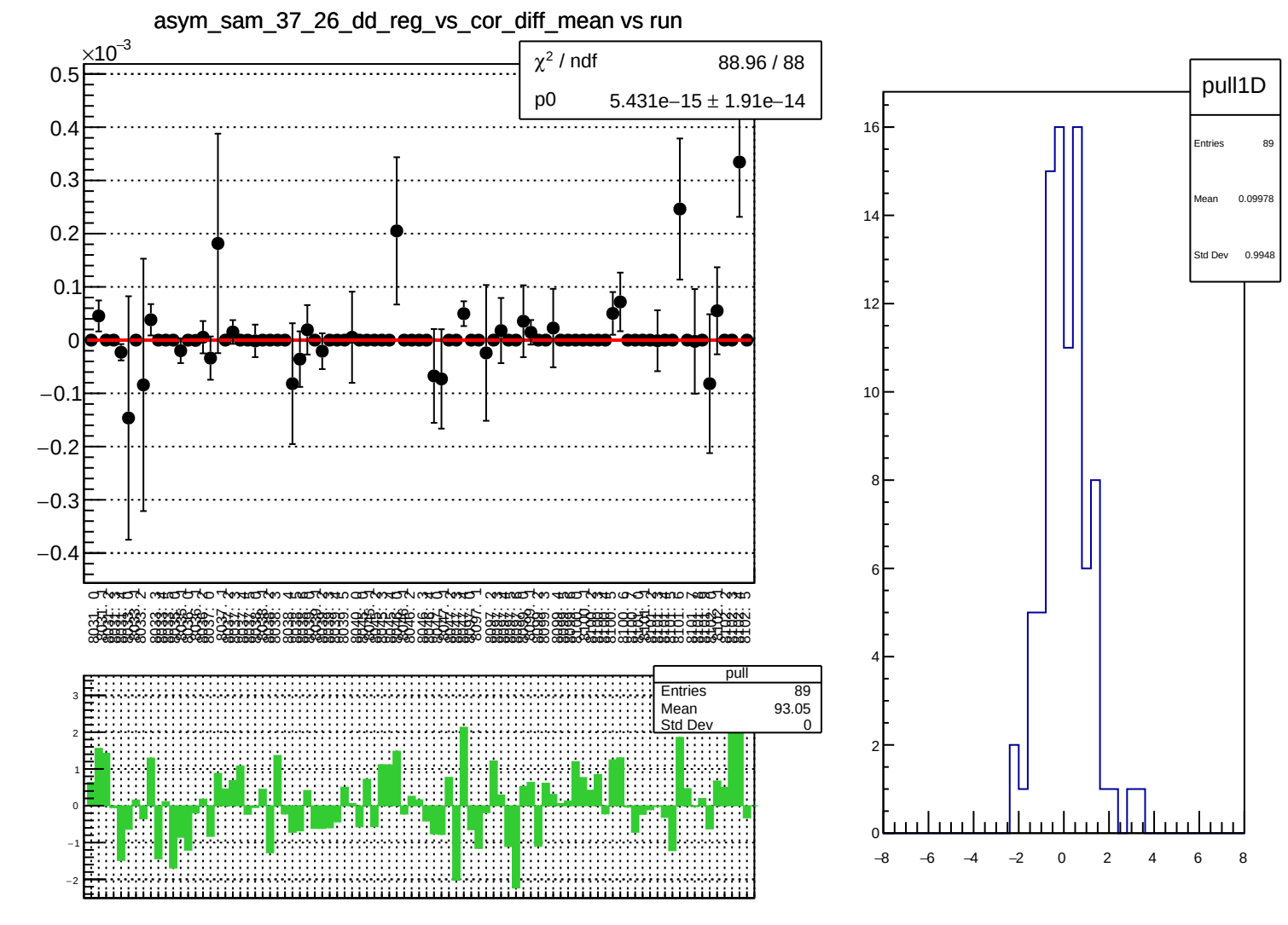

pull1D
Entries 89
Mean 0.02704
Std Dev 0.7902
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

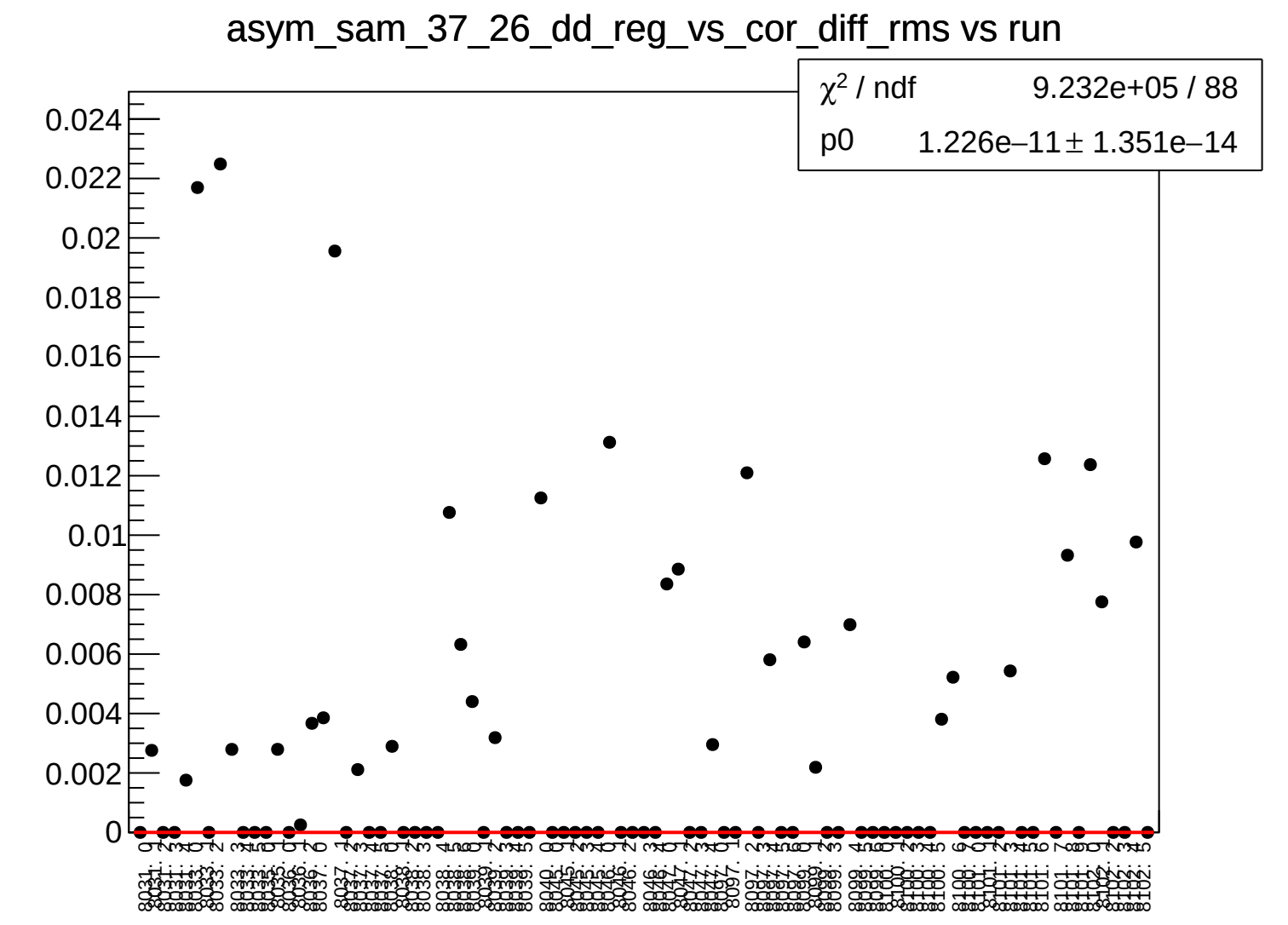

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.679e+04 / 88
p0 173.3 ± 0.1321
220
210
200
190
180
170
160
150
140

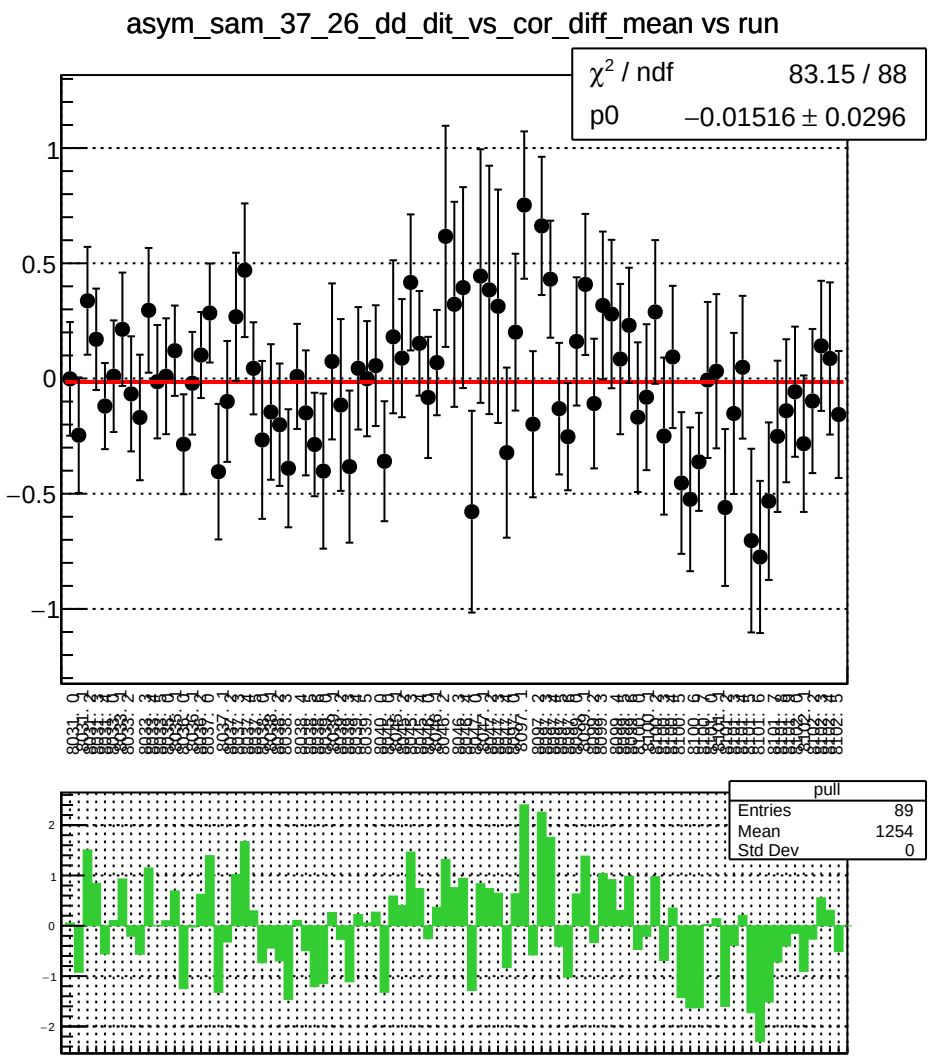

asym_sam_37_26_dd_mean vs run
χ² / ndf 57.08 / 88
p0 92.8 ± 195.8
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 79.03
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

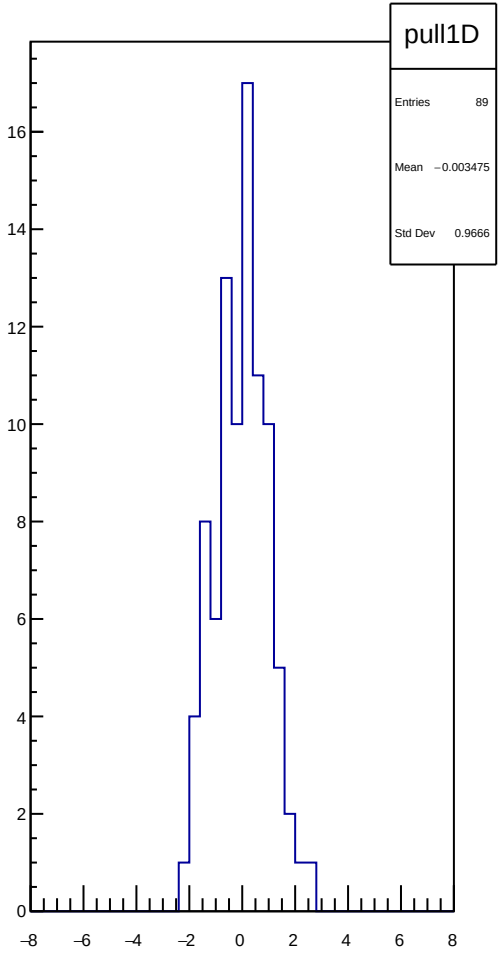

pull1D
Entries 89
Mean −0.0243
Std Dev 0.8005
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

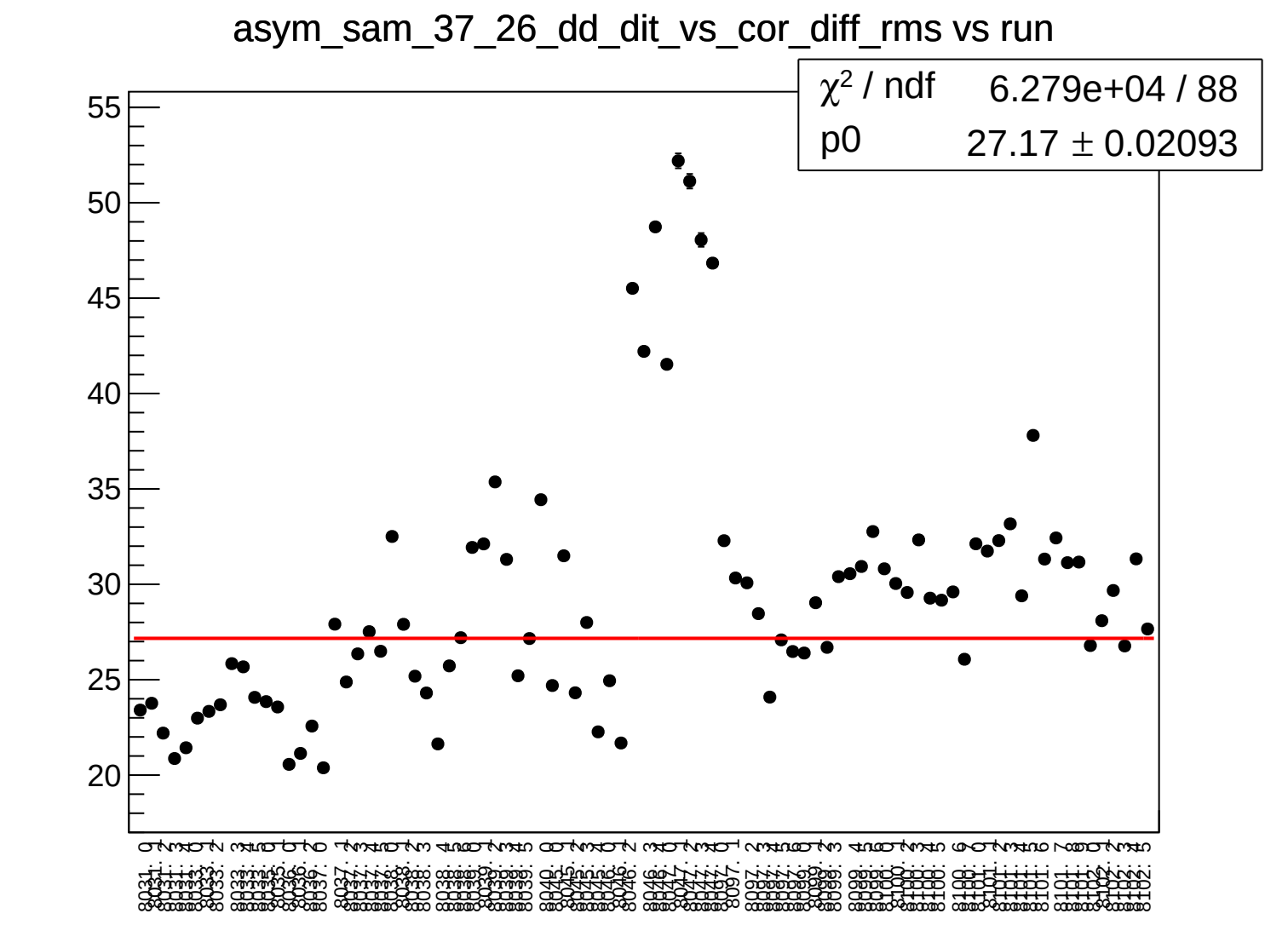

asym_sam_37_26_dd_rms vs run
χ² / ndf 2.271e+04 / 88
p0 181.8 ± 0.1384
220
210
200
190
180
170
160
150
140

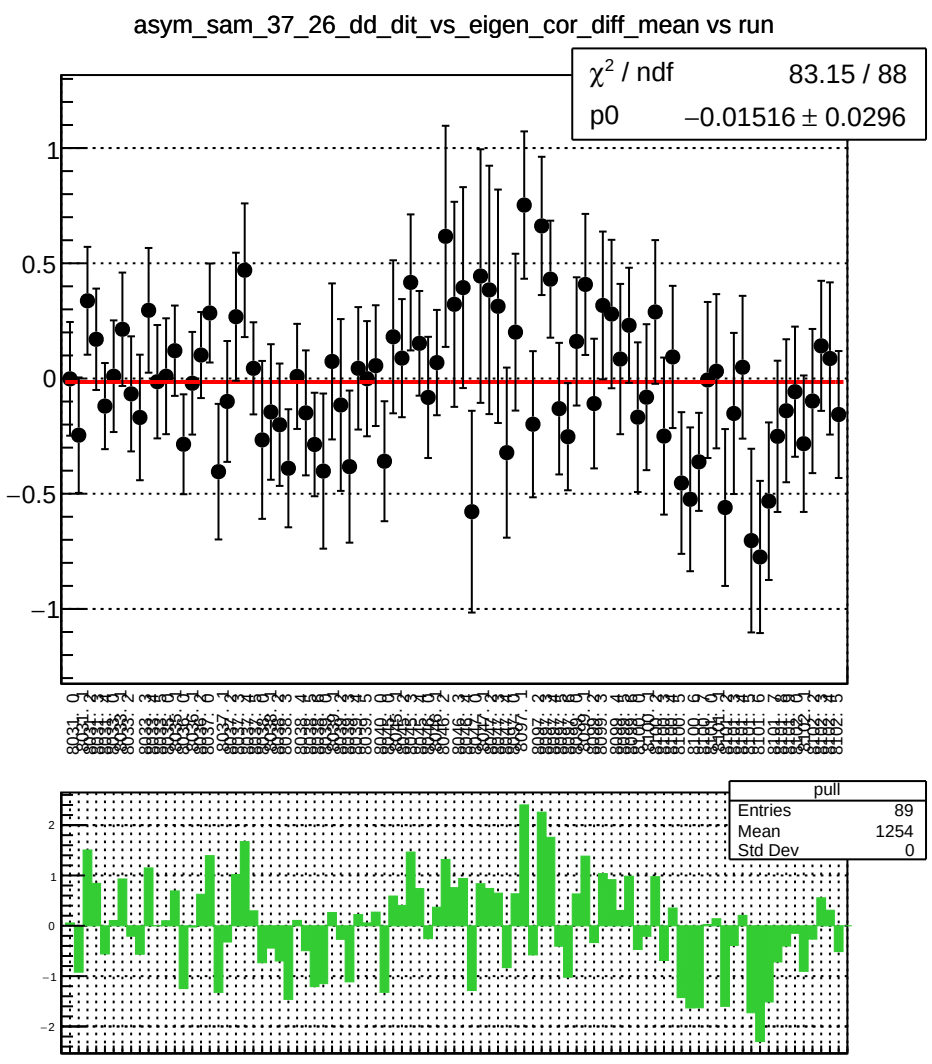

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 88.96 / 88
p0 5.431e−15 ± 1.91e−14
pull
Entries 89
Mean 93.05
Std Dev 0
pull1D
Entries 89
Mean 0.09978
Std Dev 0.9948

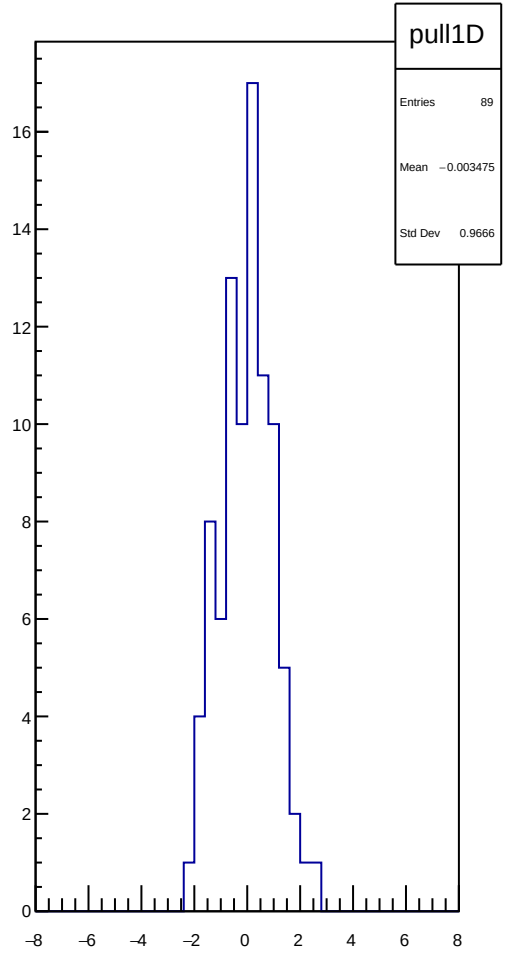

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.232e+05 / 88
p0 1.226e−11 ± 1.351e−14
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0

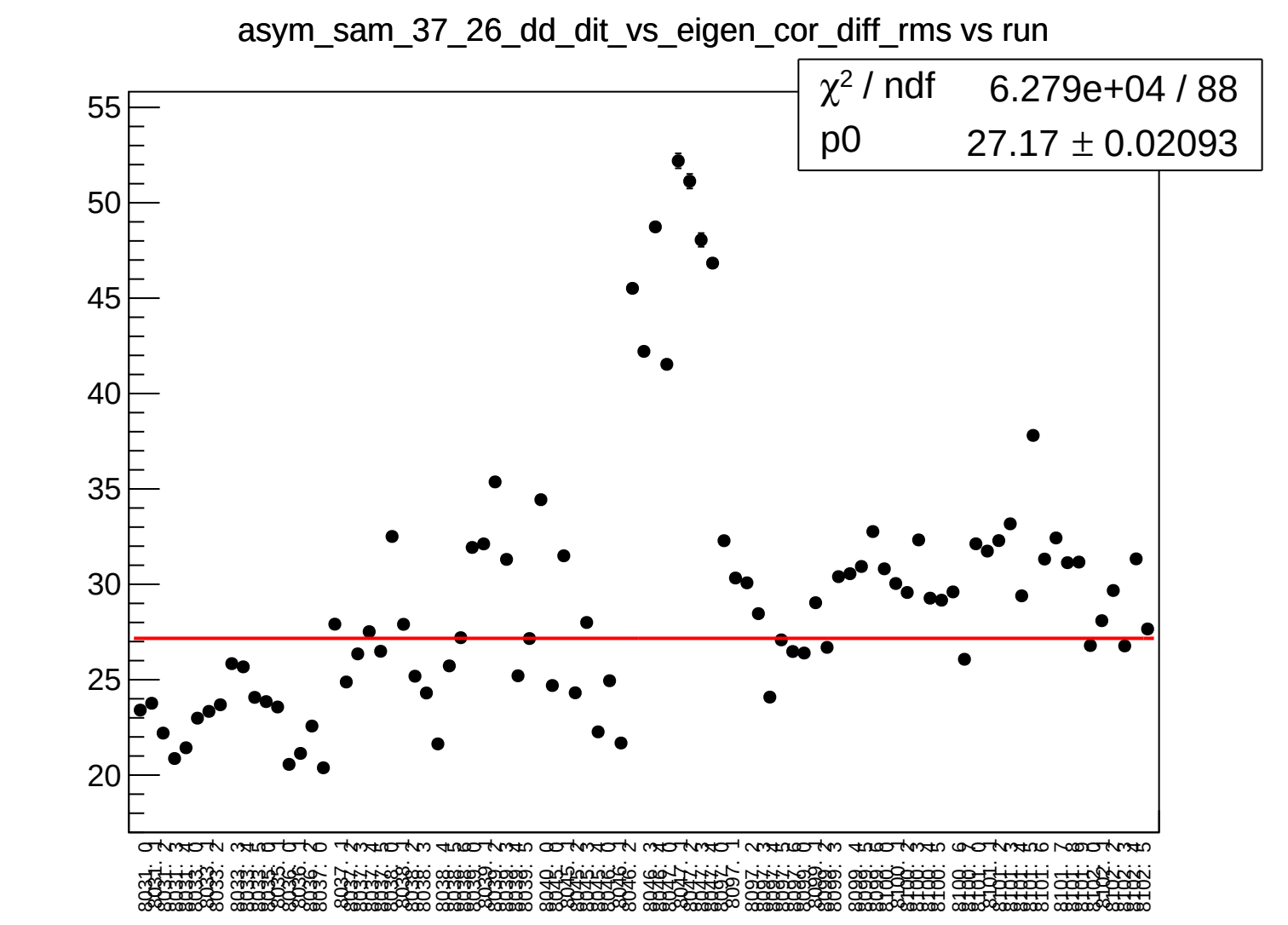

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 83.15 / 88
p0 −0.01516 ± 0.0296
pull
Entries 89
Mean 1254
Std Dev 0

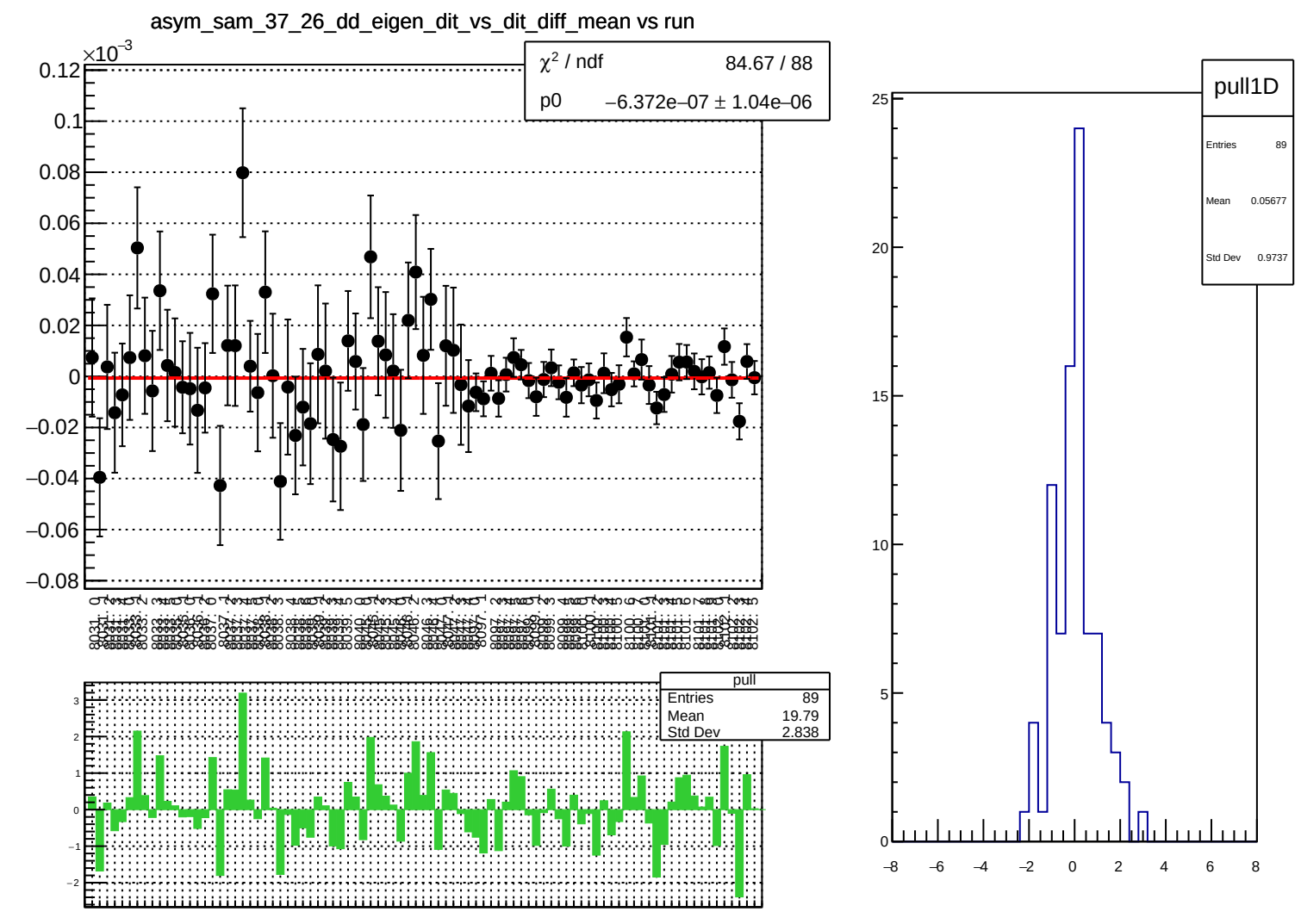

pull1D
Entries 89
Mean −0.003475
Std Dev 0.9666

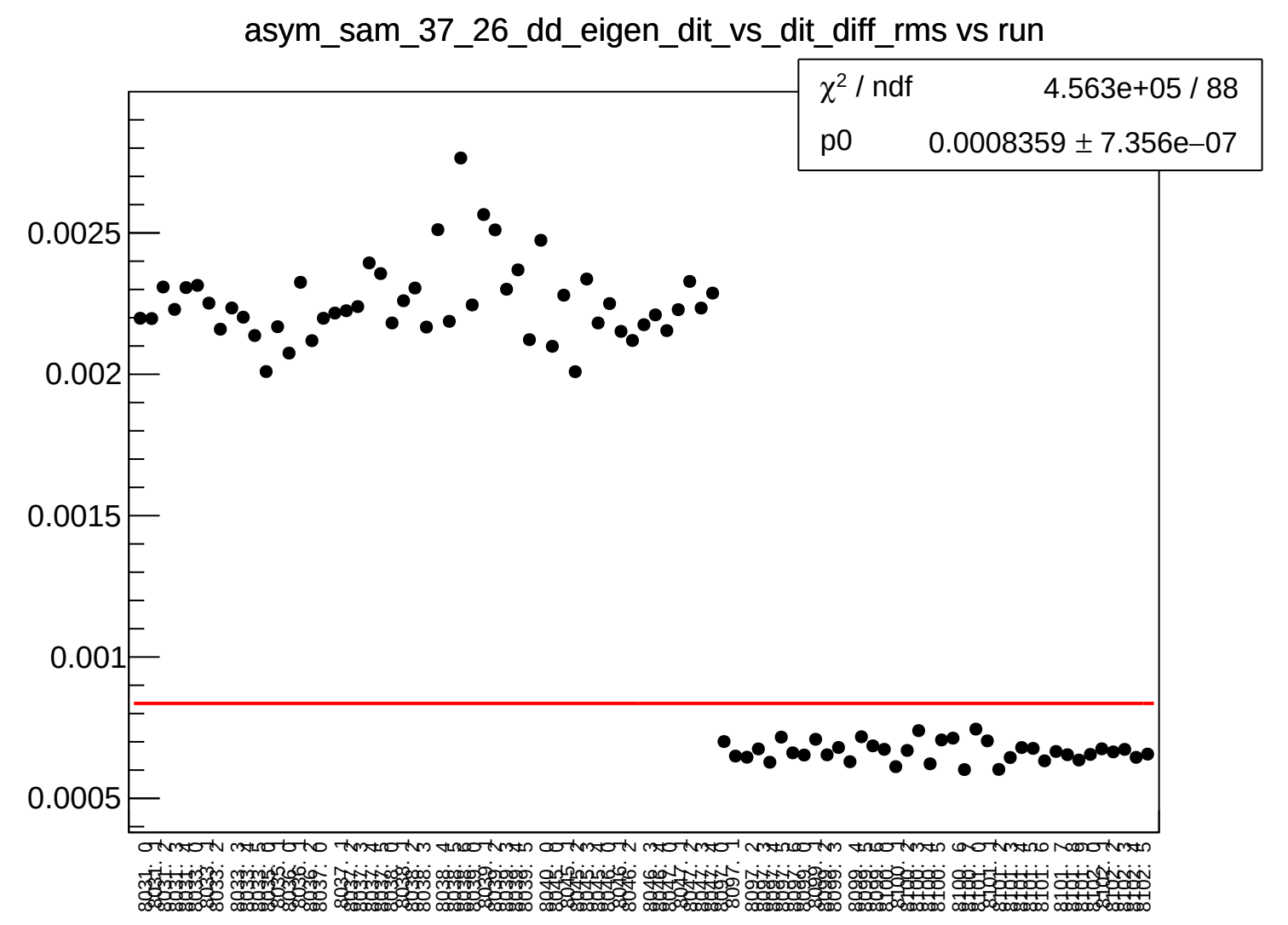

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.279e+04 / 88
p0 27.17 ± 0.02093
55
50
45
40
35
30
25
20

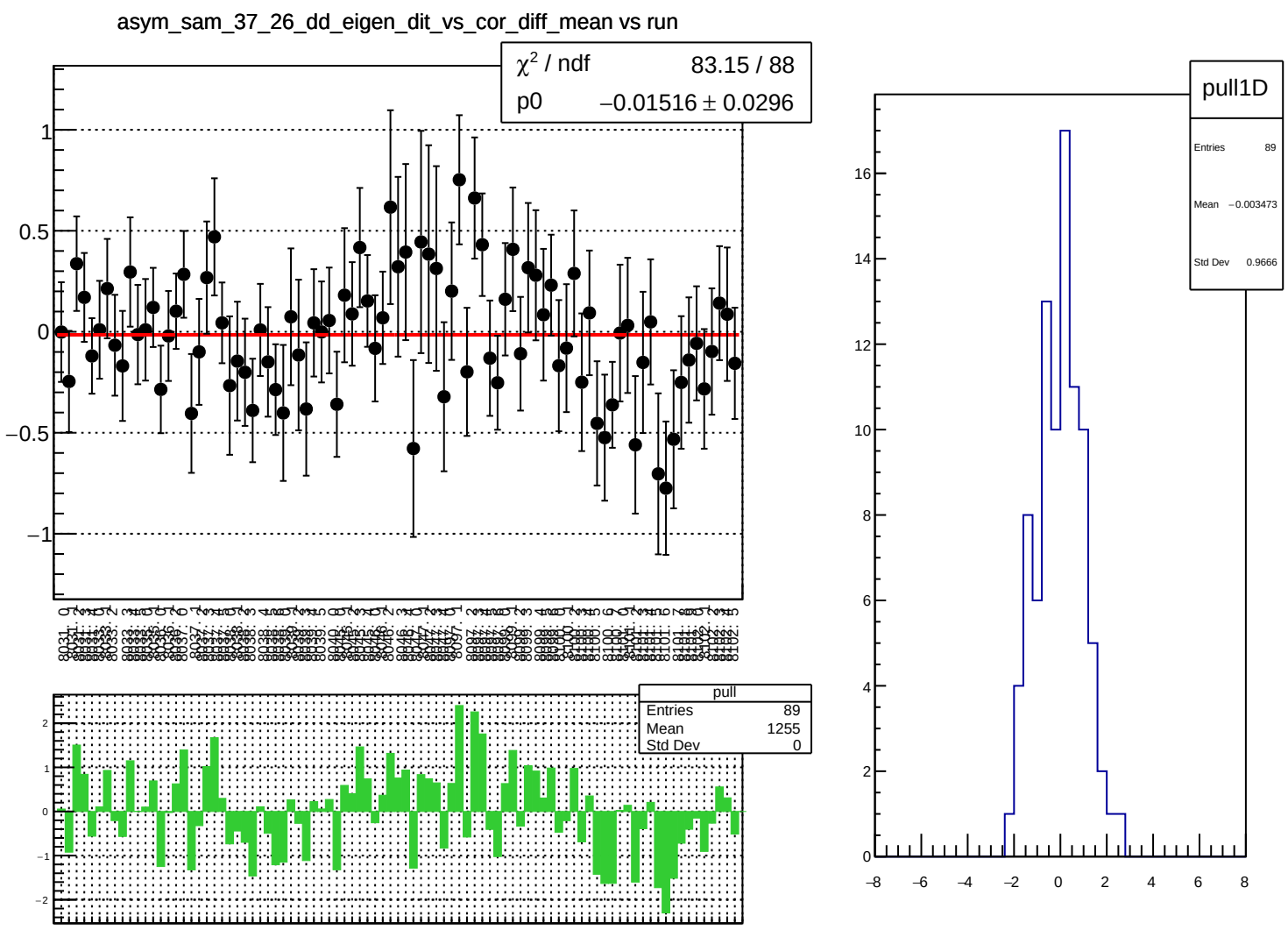

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.15 / 88
p0 −0.01516 ± 0.0296
pull
Entries 89
Mean 1254
Std Dev 0

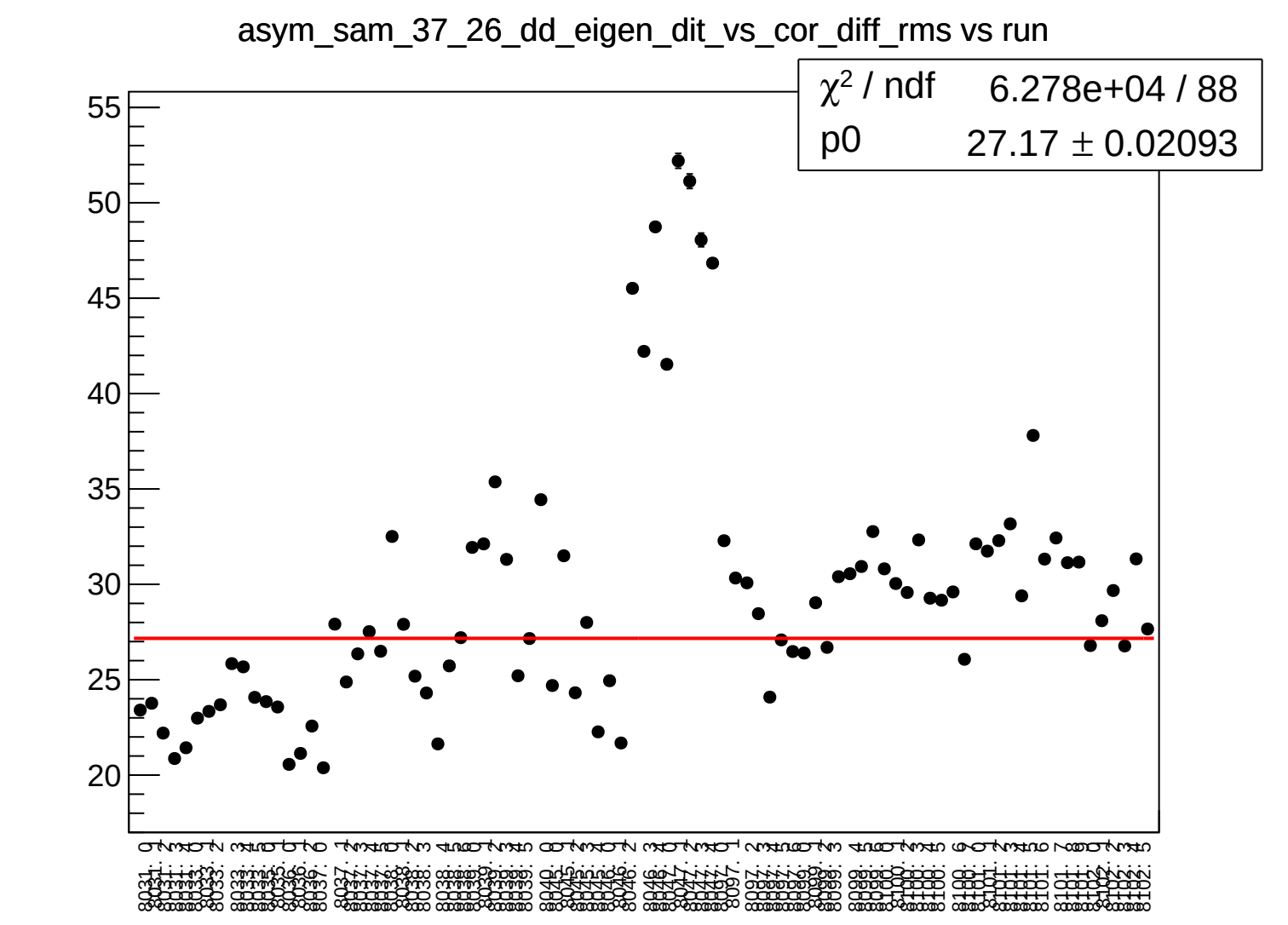

pull1D
Entries 89
Mean −0.003475
Std Dev 0.9666


asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.279e+04 / 88
p0 27.17 ± 0.02093
55
50
45
40
35
30
25
20

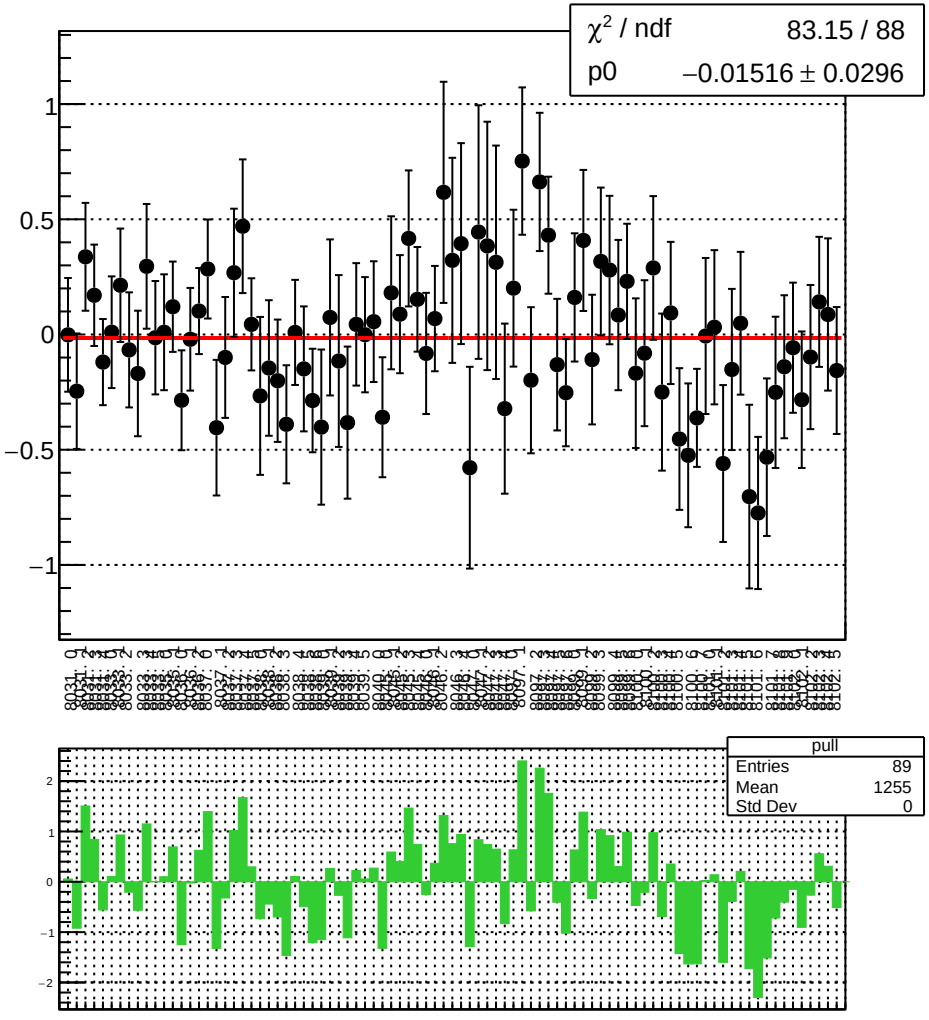

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 84.67 / 88
p0 −6.372e−07 ± 1.04e−06
pull
Entries 89
Mean 19.79
Std Dev 2.838
pull1D
Entries 89
Mean 0.05677
Std Dev 0.9737

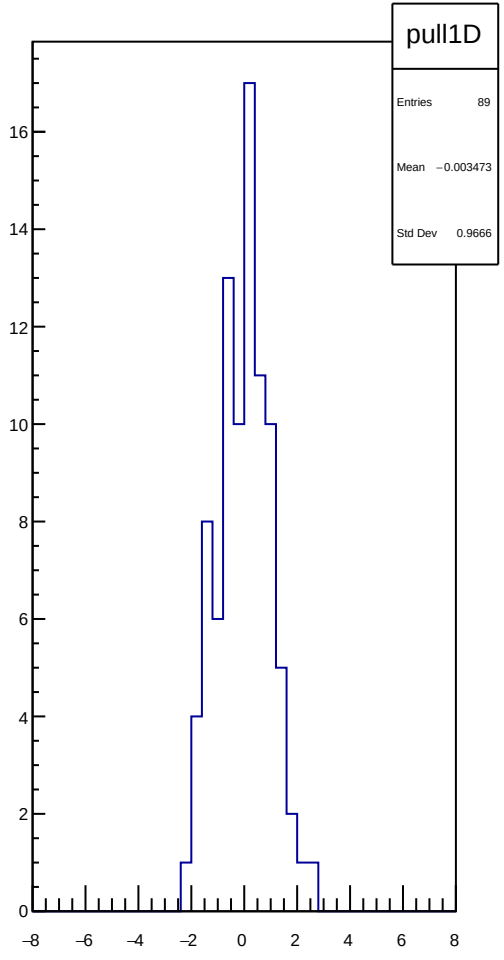

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.563e+05 / 88
p0 0.0008359 ± 7.356e−07
0.0025
0.002
0.0015
0.001
0.0005

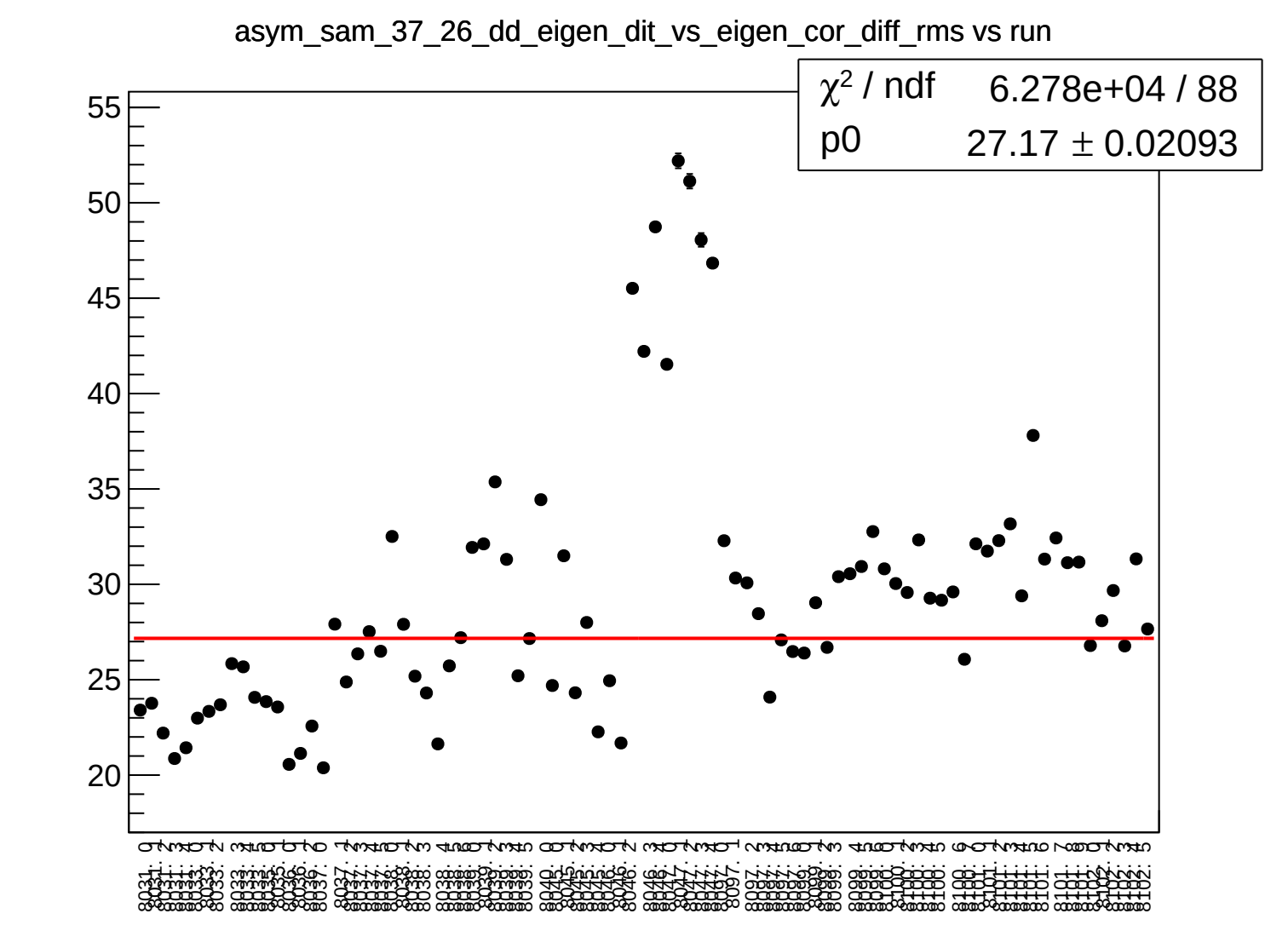

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.15 / 88
p0 −0.01516 ± 0.0296
pull
Entries 89
Mean 1255
Std Dev 0
pull1D
Entries 89
Mean −0.003473
Std Dev 0.9666

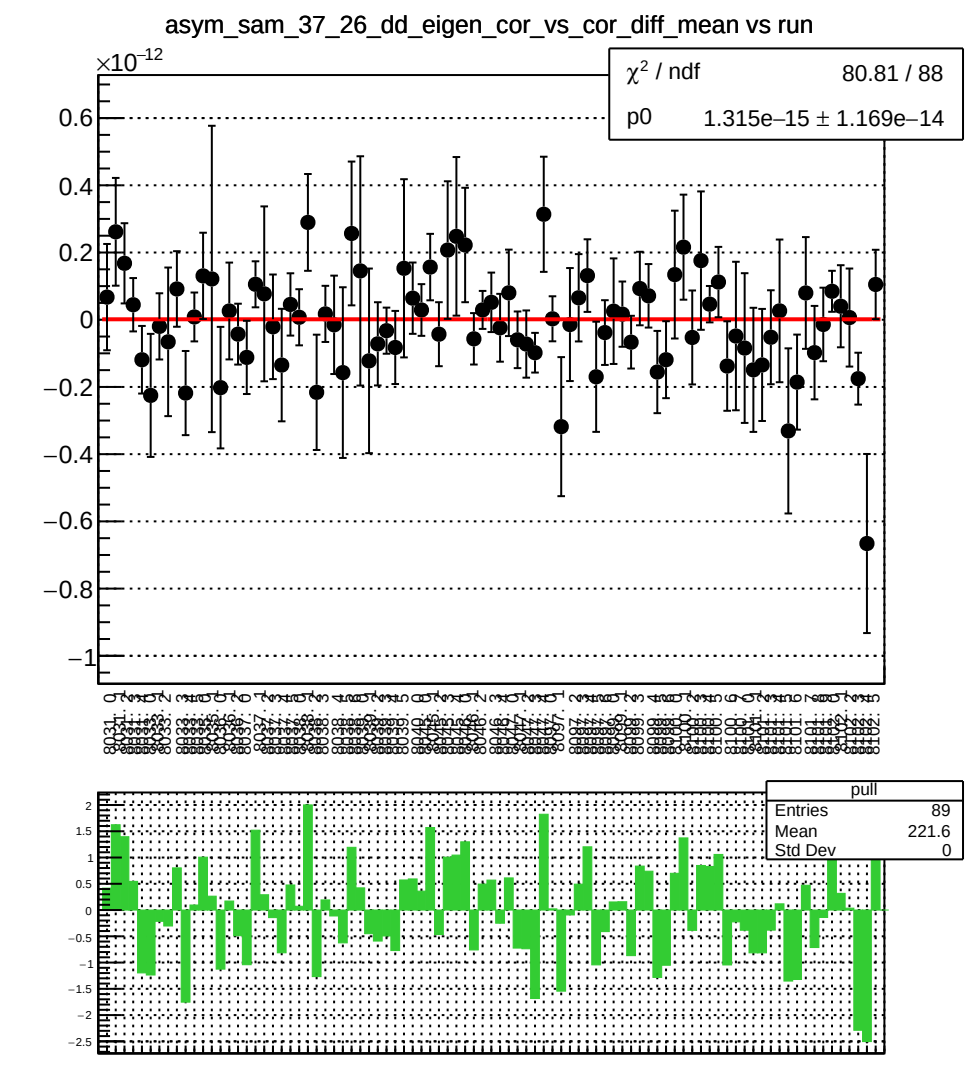

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.278e+04 / 88
p0 27.17 ± 0.02093
55
50
45
40
35
30
25
20

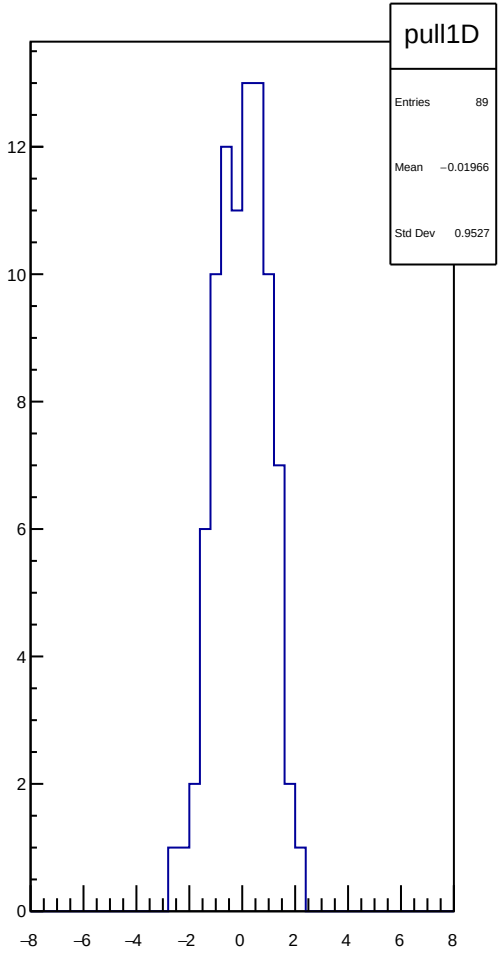
asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

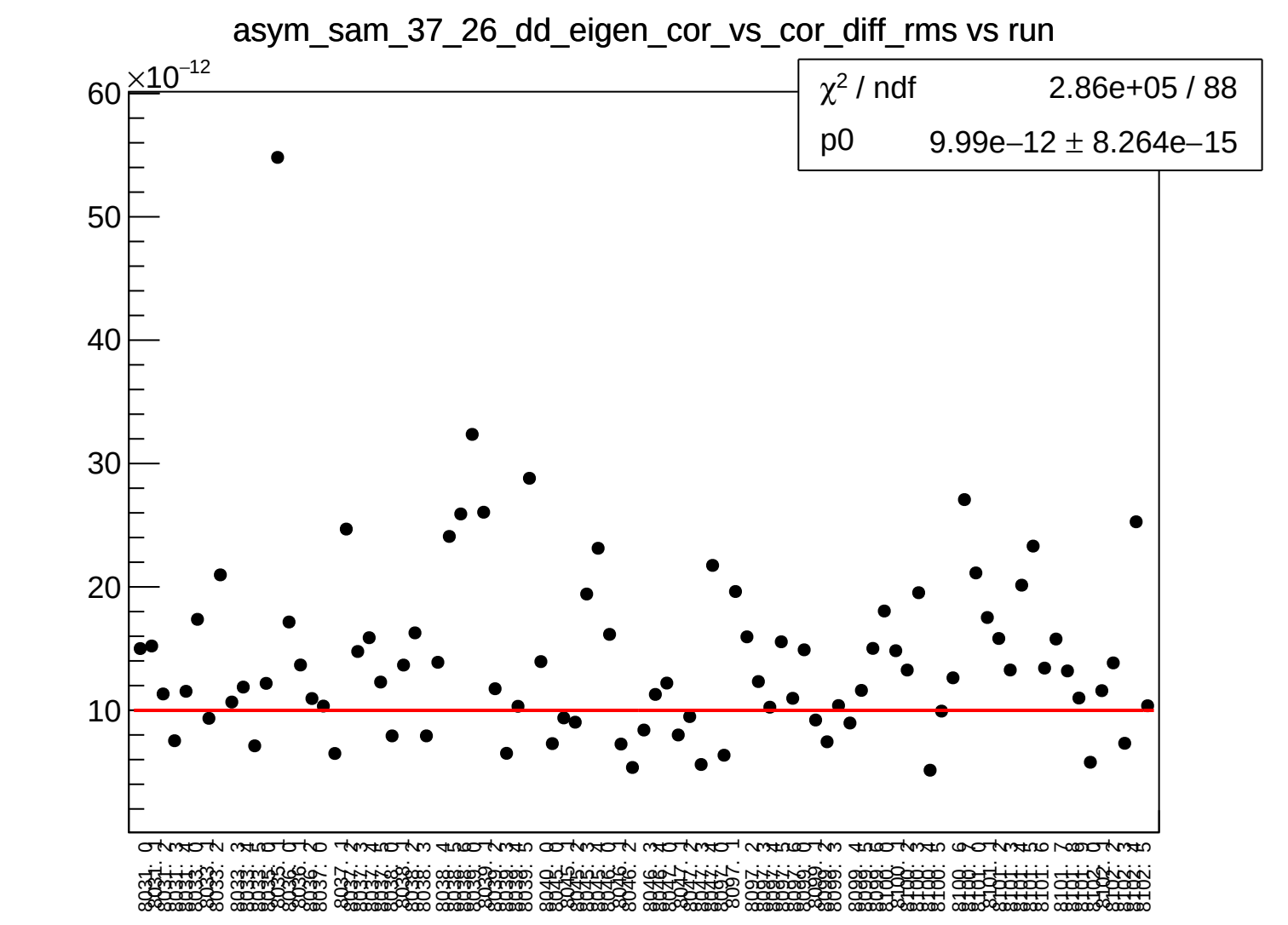


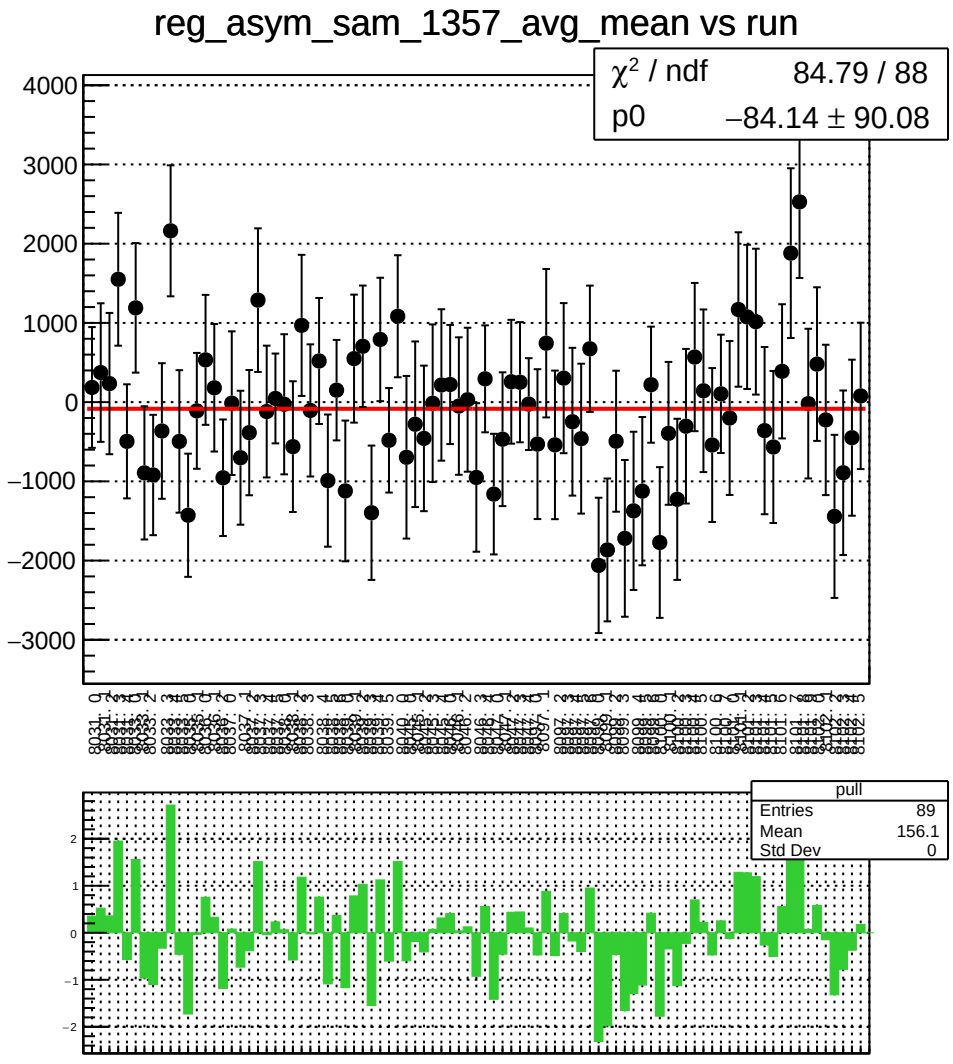



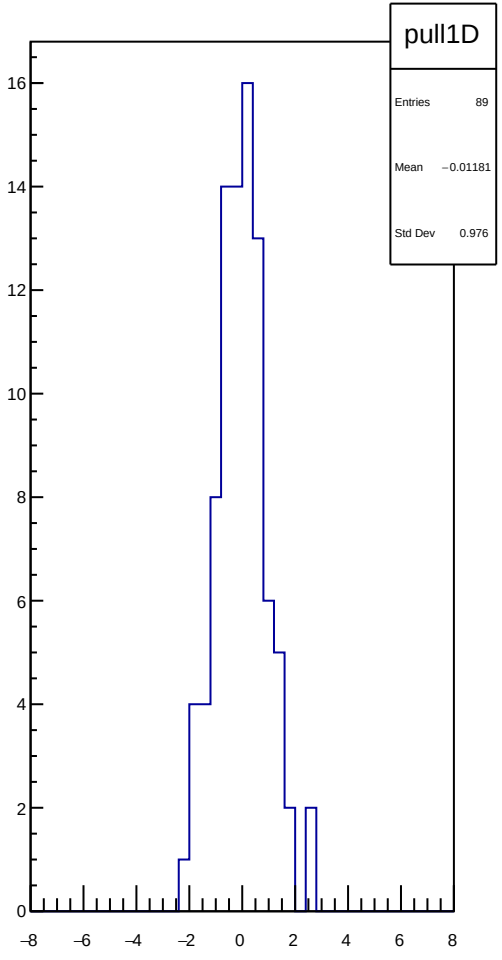

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.278e+04 / 88
p0 27.17 ± 0.02093
55
50
45
40
35
30
25
20

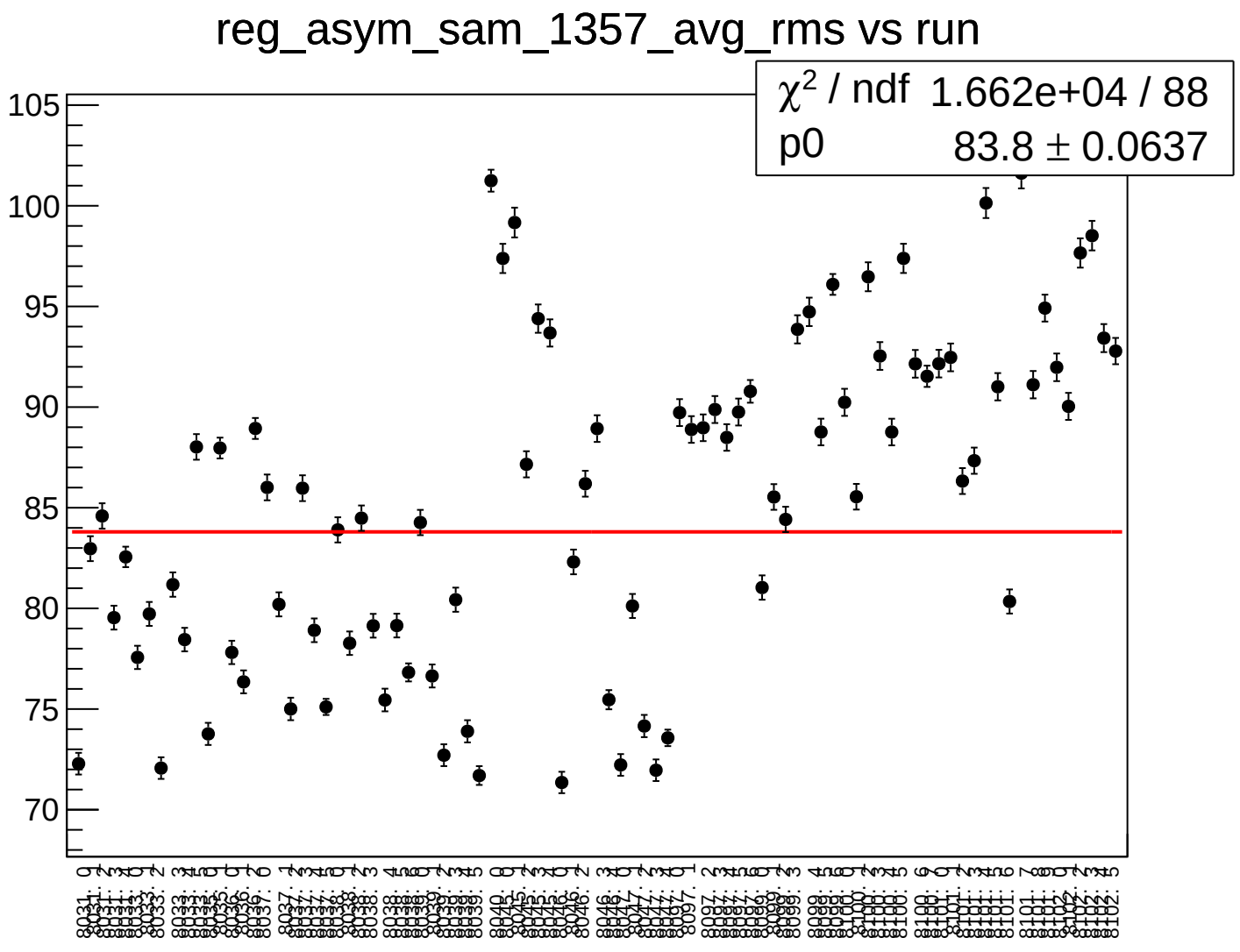

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.81 / 88
p0 1.315e−15 ± 1.169e−14
pull
Entries 89
Mean 221.6
Std Dev 0

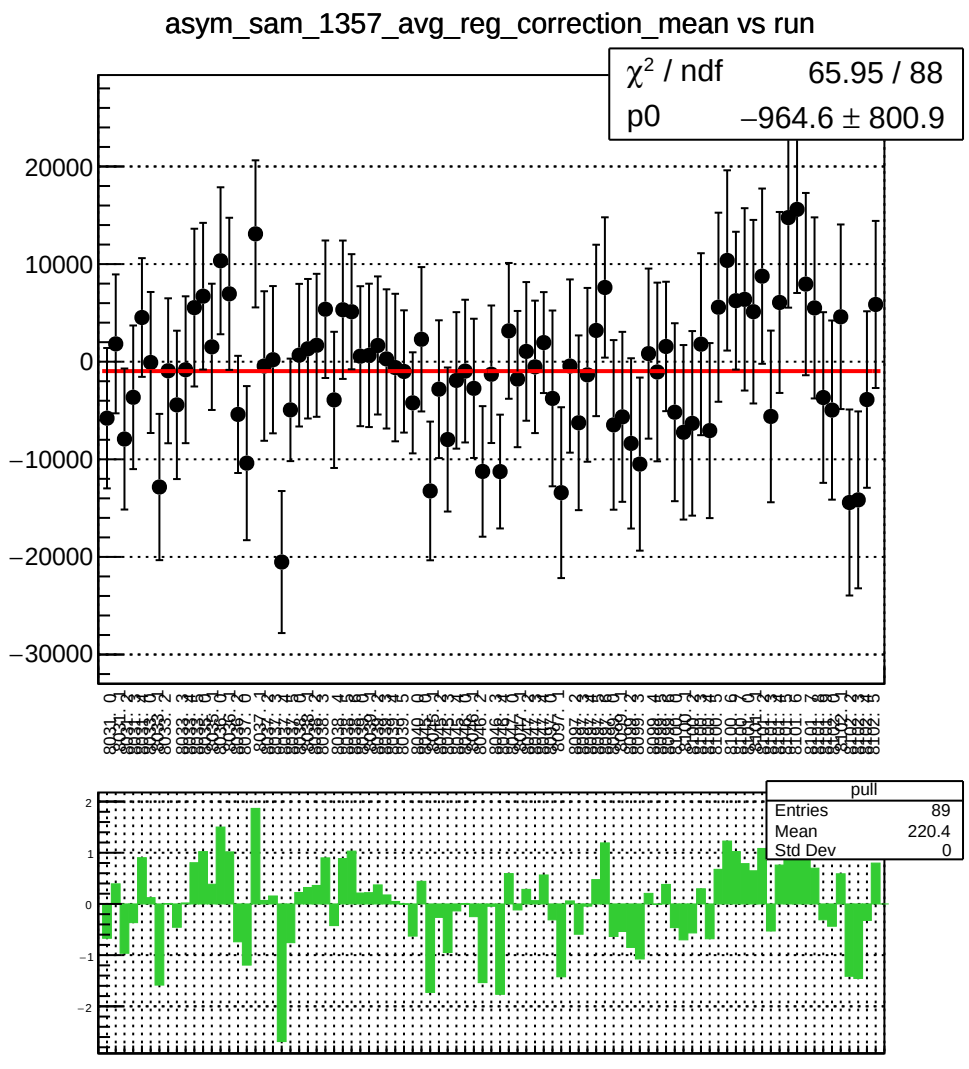

pull1D
Entries 89
Mean −0.01966
Std Dev 0.9527

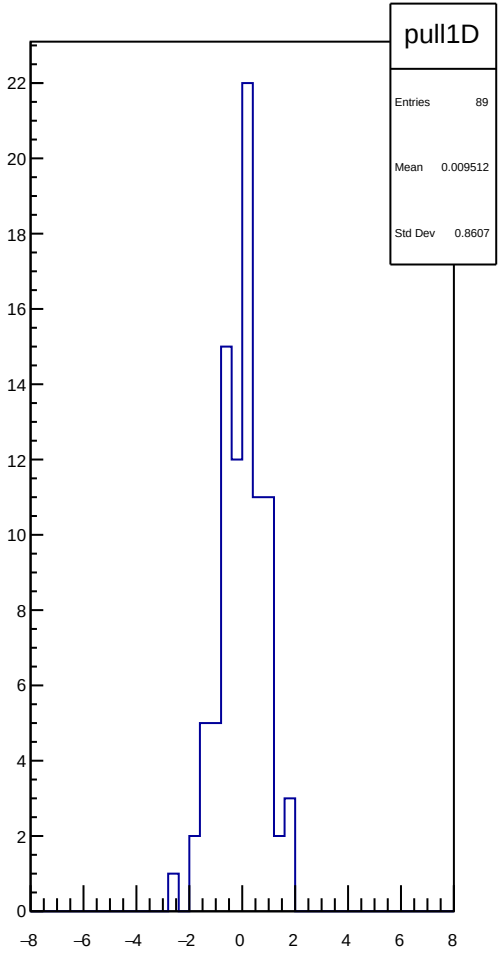

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
60
50
40
30
20
10
χ² / ndf 2.86e+05 / 88
p0 9.99e−12 ± 8.264e−15

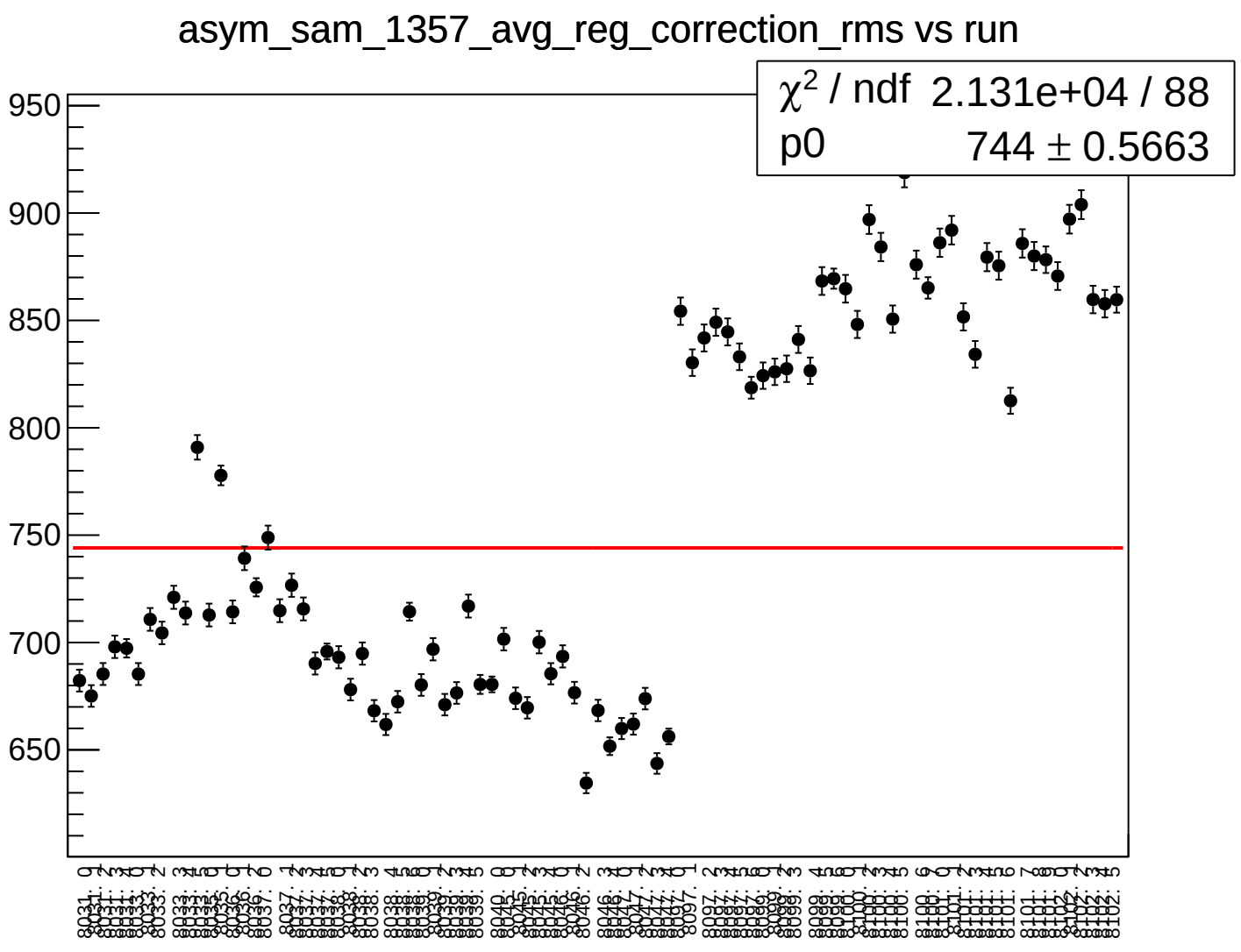

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 84.79 / 88
p0 −84.14 ± 90.08
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean 156.1
Std Dev 0
2
1
0
−1
−2

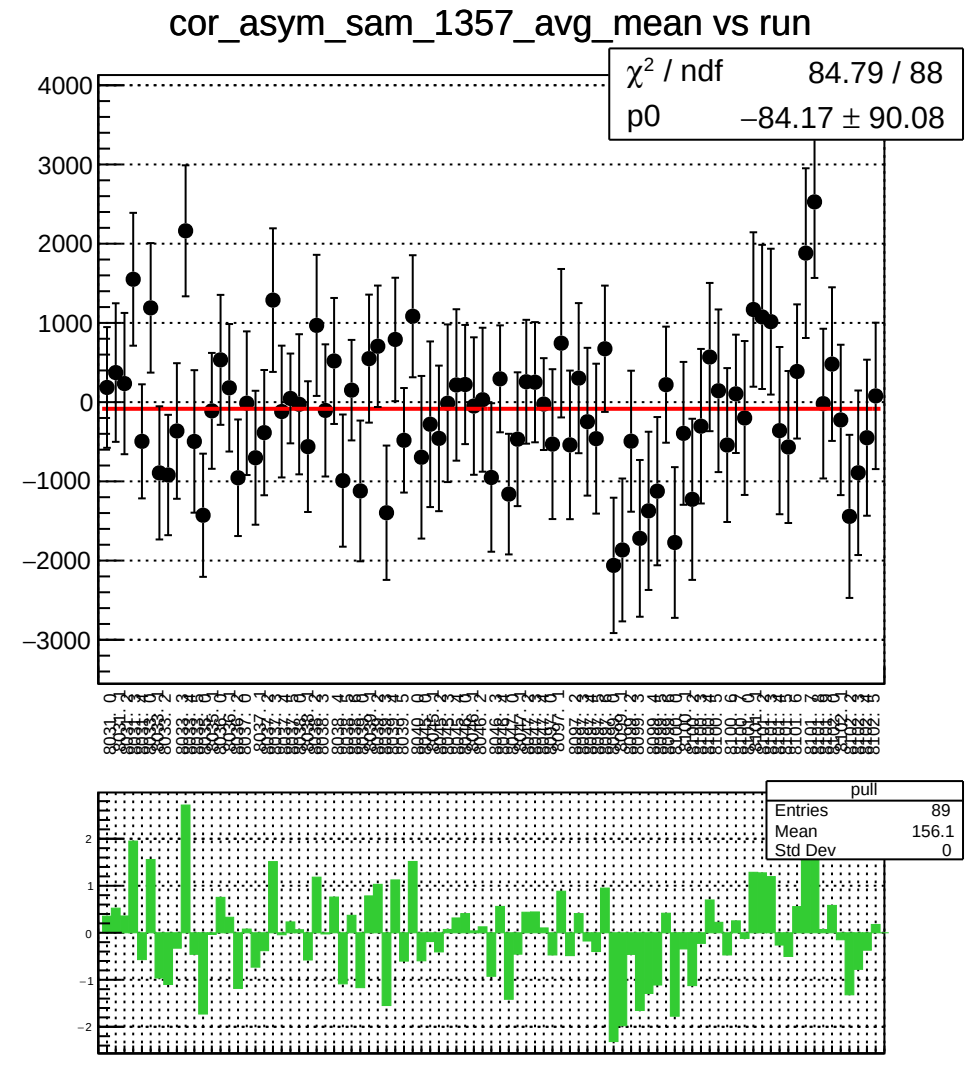

pull1D
Entries 89
Mean −0.01181
Std Dev 0.976
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

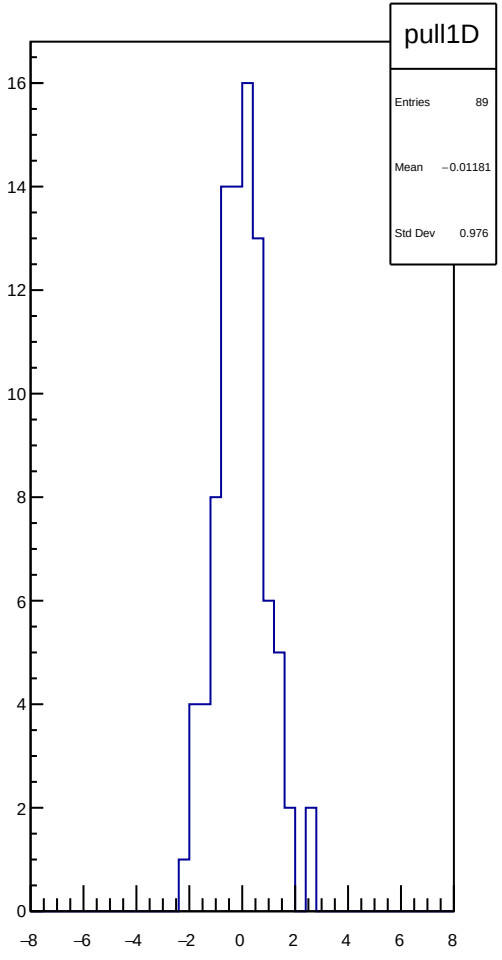

reg_asym_sam_1357_avg_rms vs run
χ² / ndf 1.662e+04 / 88
p0 83.8 ± 0.0637
105
100
95
90
85
80
75
70

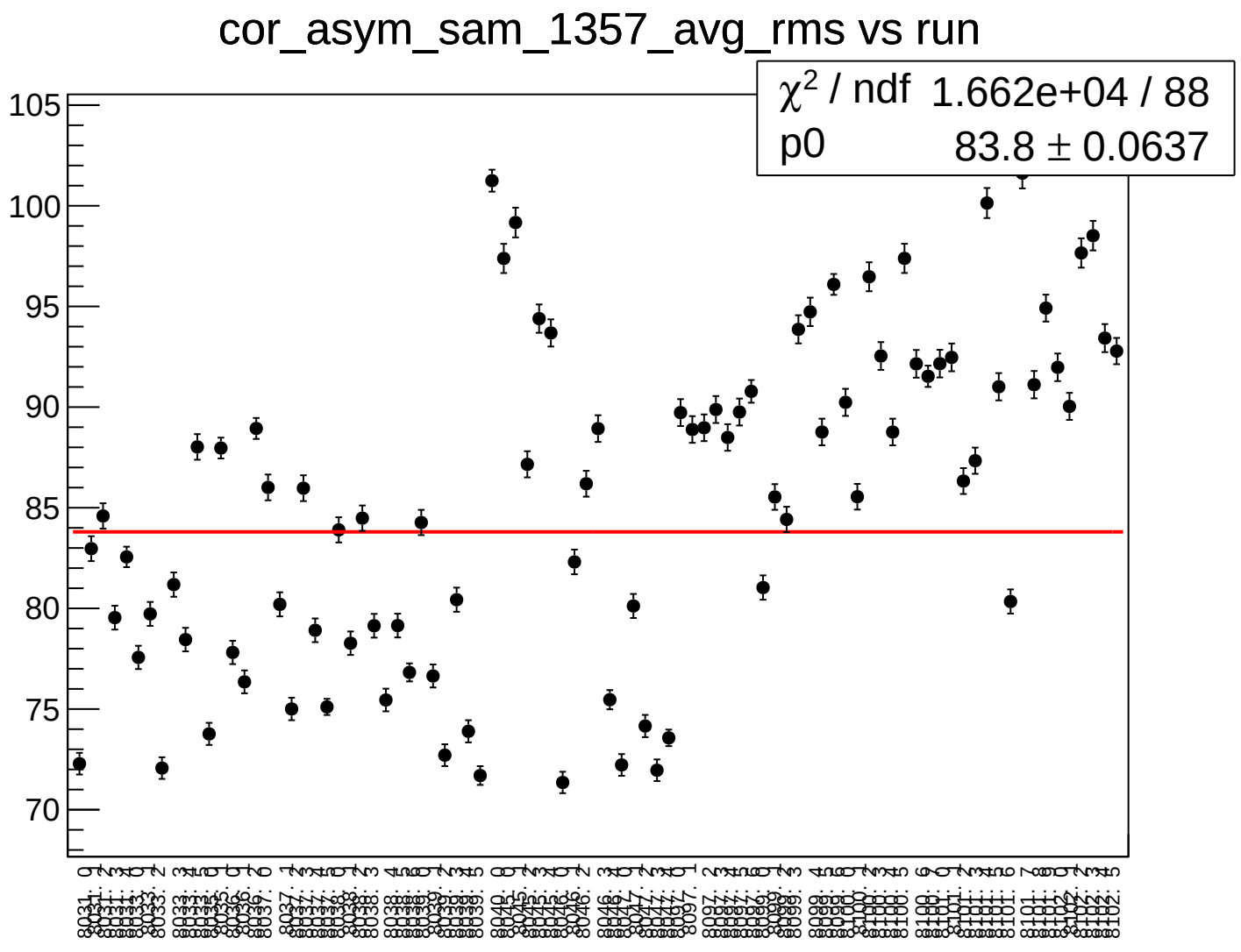

asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 65.95 / 88
p0 −964.6 ± 800.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 220.4
Std Dev 0
2
1
0
−1
−2

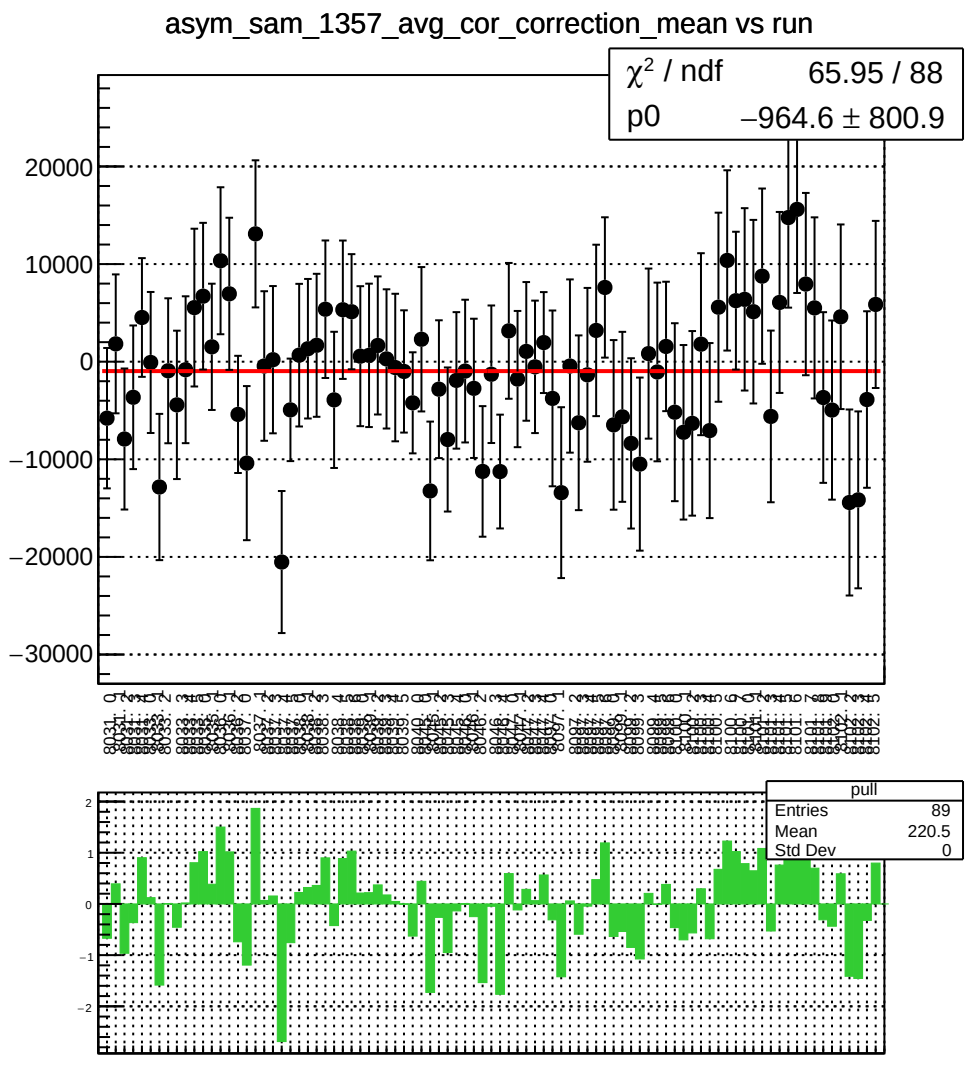

pull1D
Entries 89
Mean 0.009512
Std Dev 0.8607
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

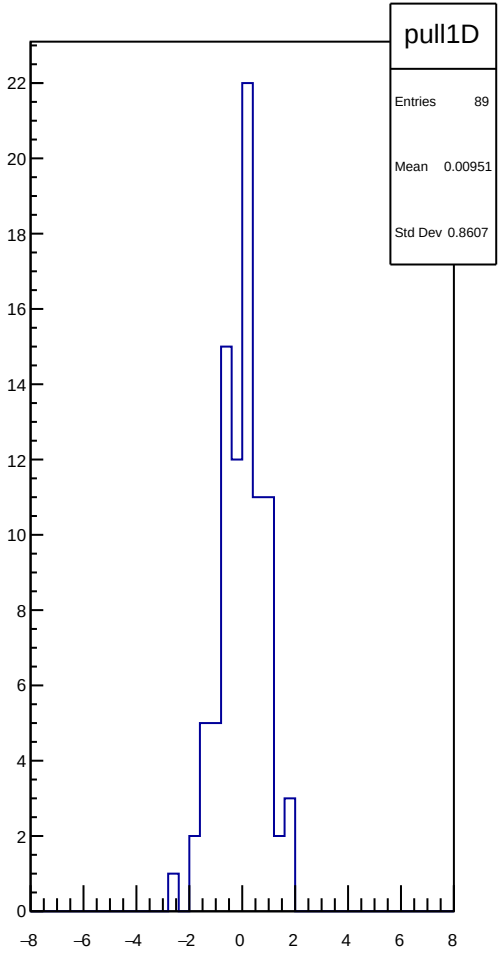

asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 2.131e+04 / 88
p0 744 ± 0.5663
950
900
850
800
750
700
650

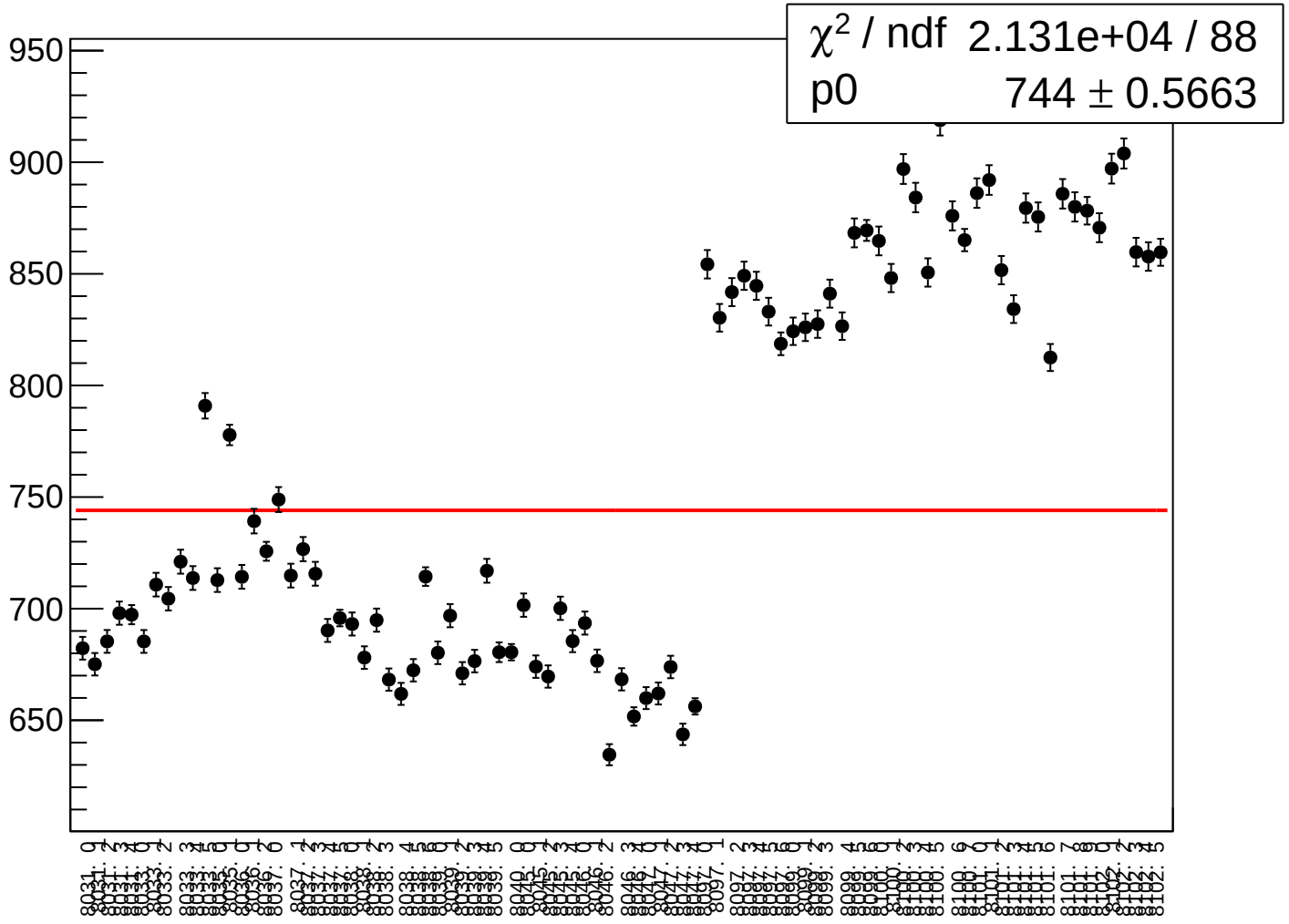

cor_asym_sam_1357_avg_mean vs run
χ² / ndf 84.79 / 88
p0 −84.17 ± 90.08
pull
Entries 89
Mean 156.1
Std Dev 0

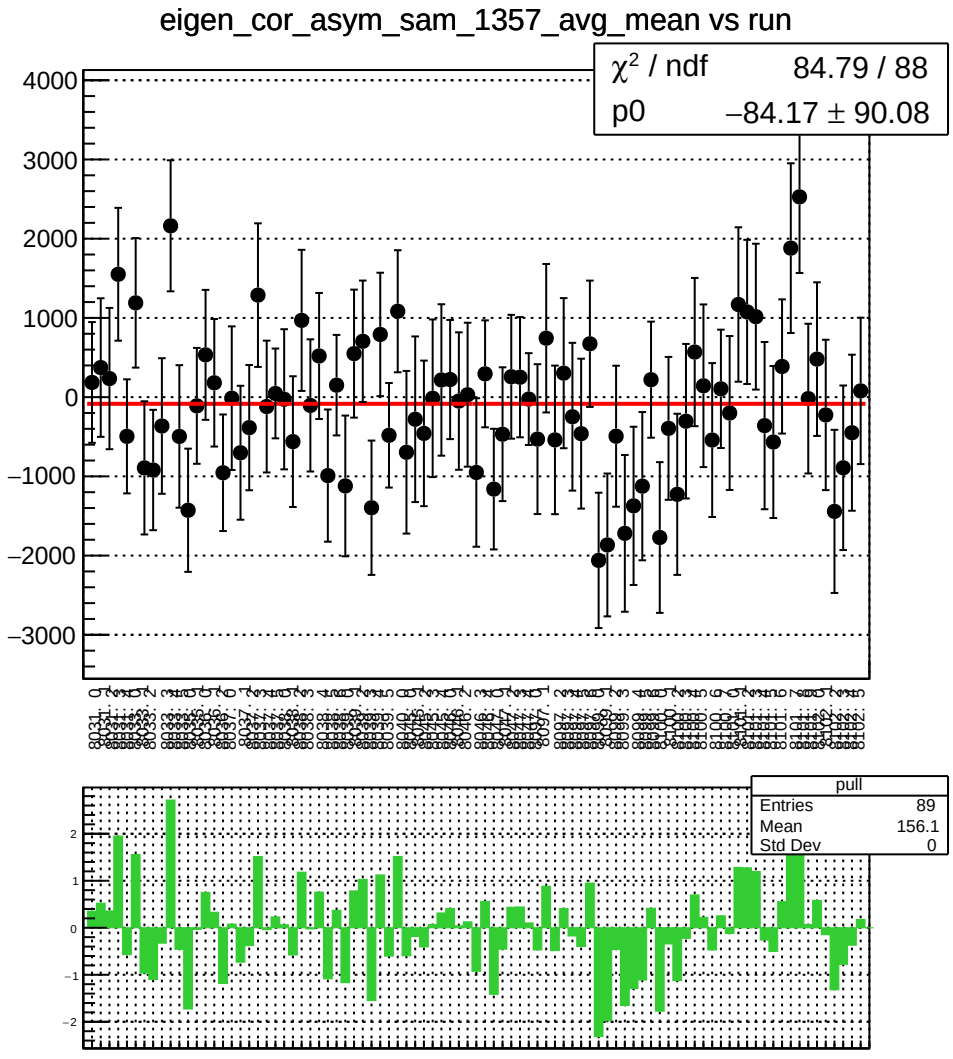

pull1D
Entries 89
Mean −0.01181
Std Dev 0.976

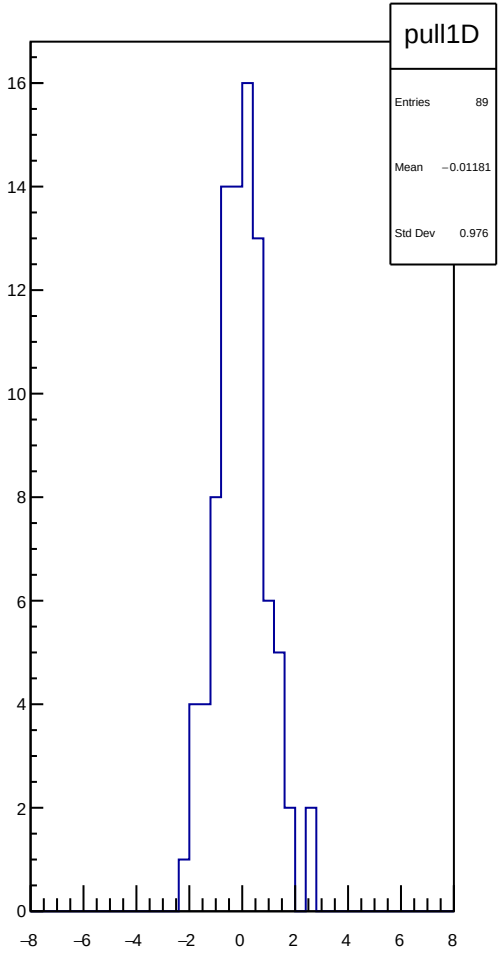

cor_asym_sam_1357_avg_rms vs run
χ² / ndf 1.662e+04 / 88
p0 83.8 ± 0.0637
105
100
95
90
85
80
75
70

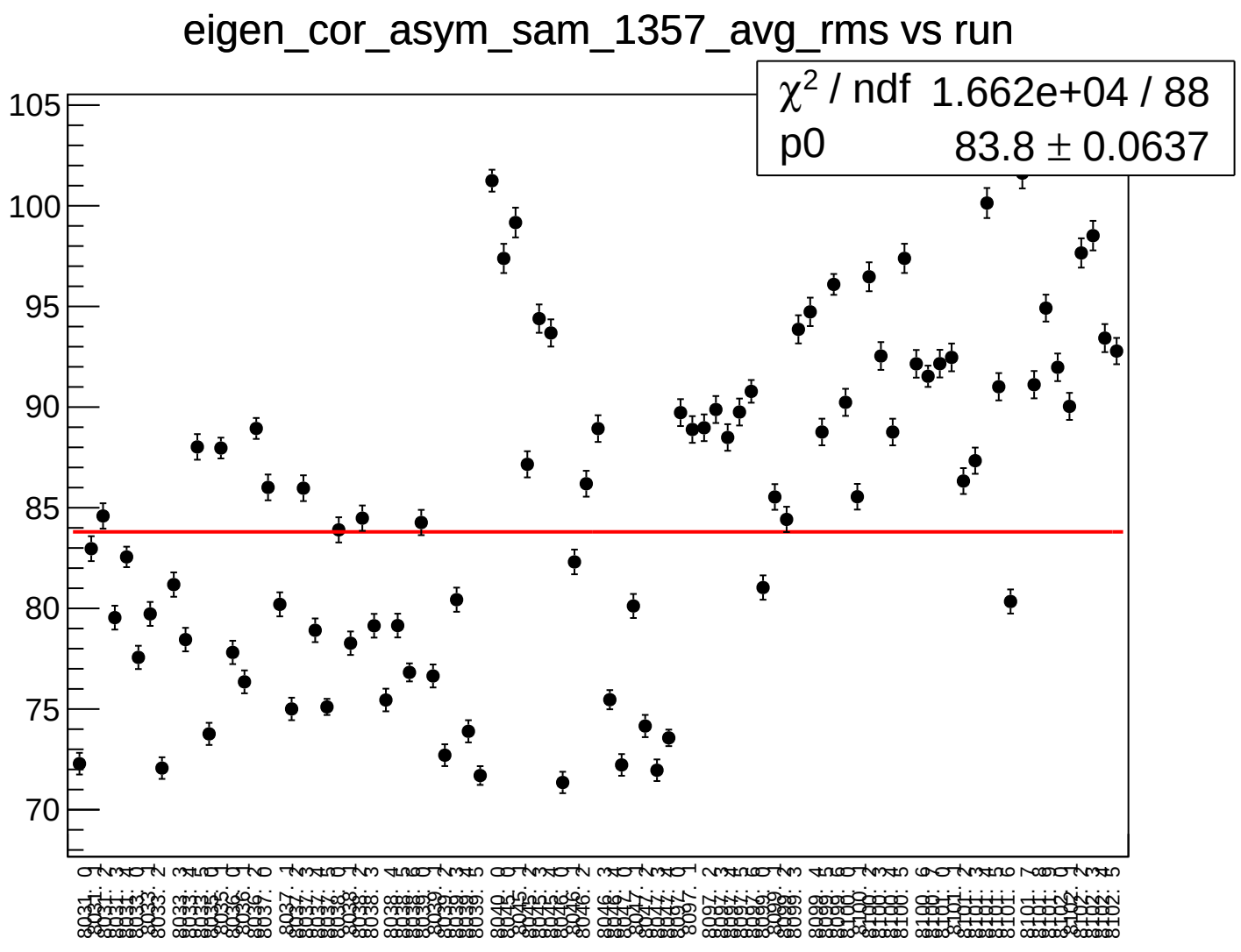

asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 65.95 / 88
p0 −964.6 ± 800.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 220.5
Std Dev 0
2
1
0
−1
−2

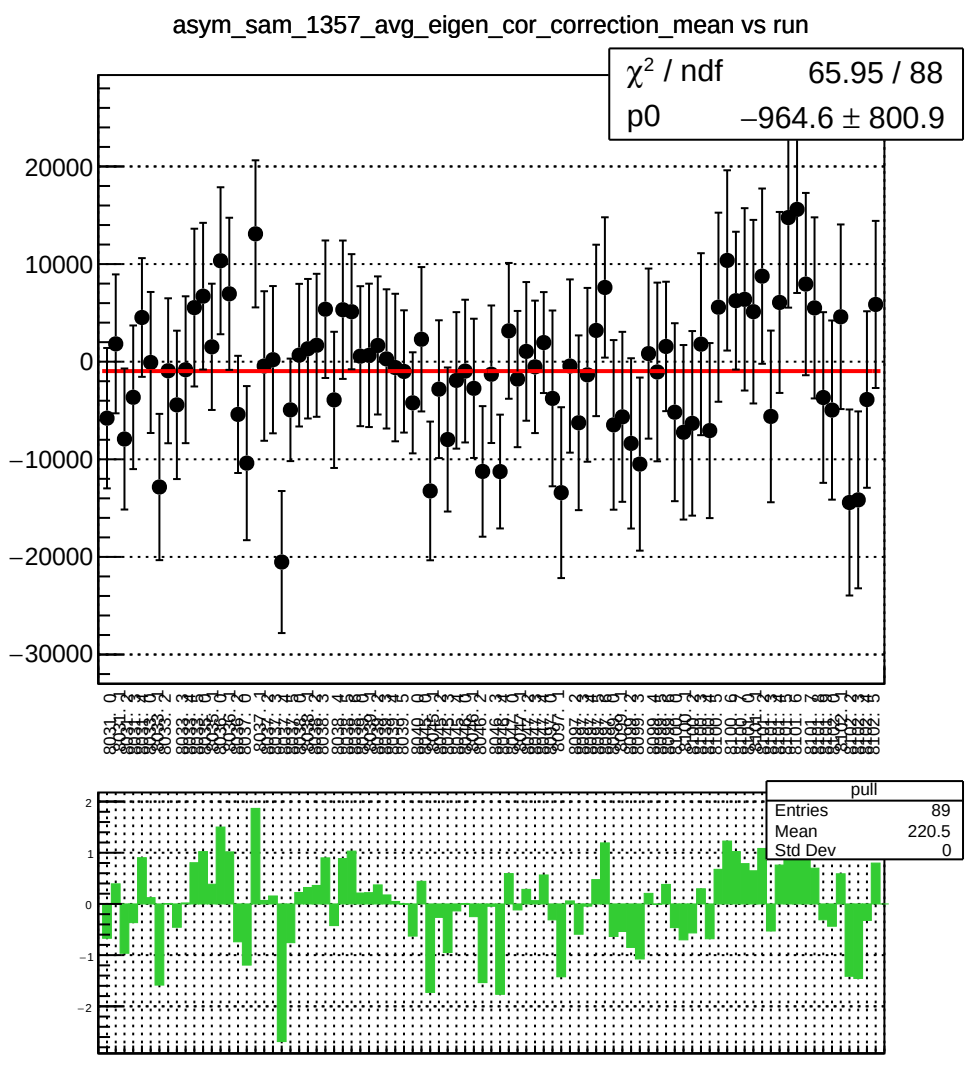

pull1D
Entries 89
Mean 0.00951
Std Dev 0.8607
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

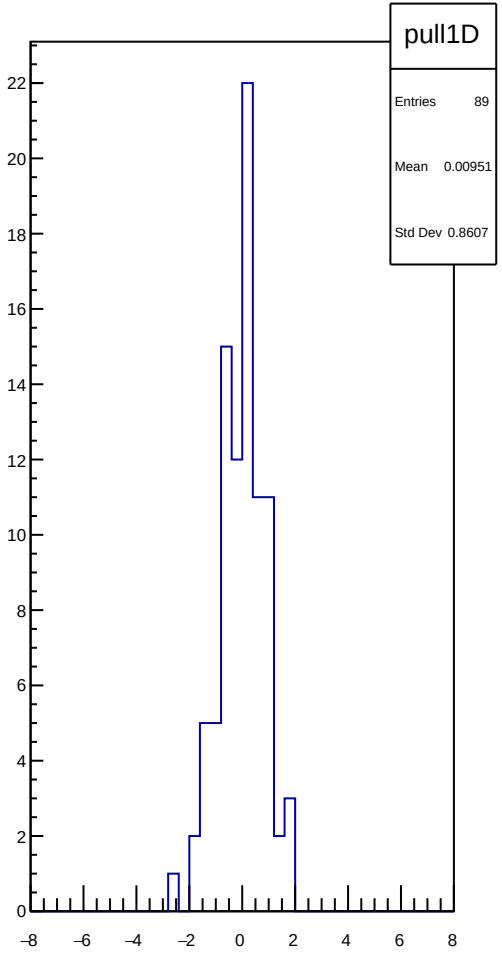

asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 2.131e+04 / 88
p0 744 ± 0.5663
950
900
850
800
750
700
650

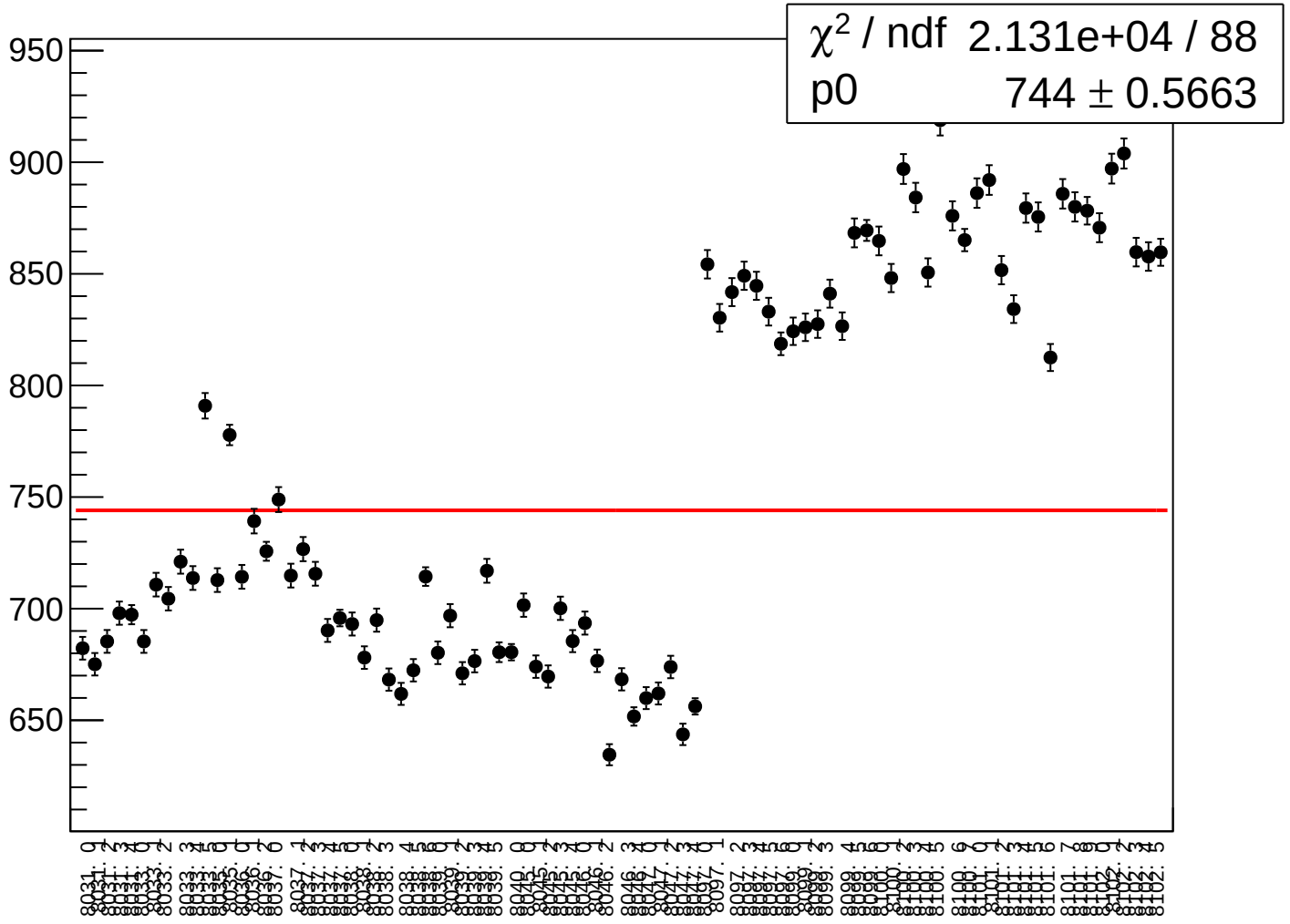

eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 84.79 / 88
p0 −84.17 ± 90.08
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean 156.1
Std Dev 0
2
1
0
−1
−2

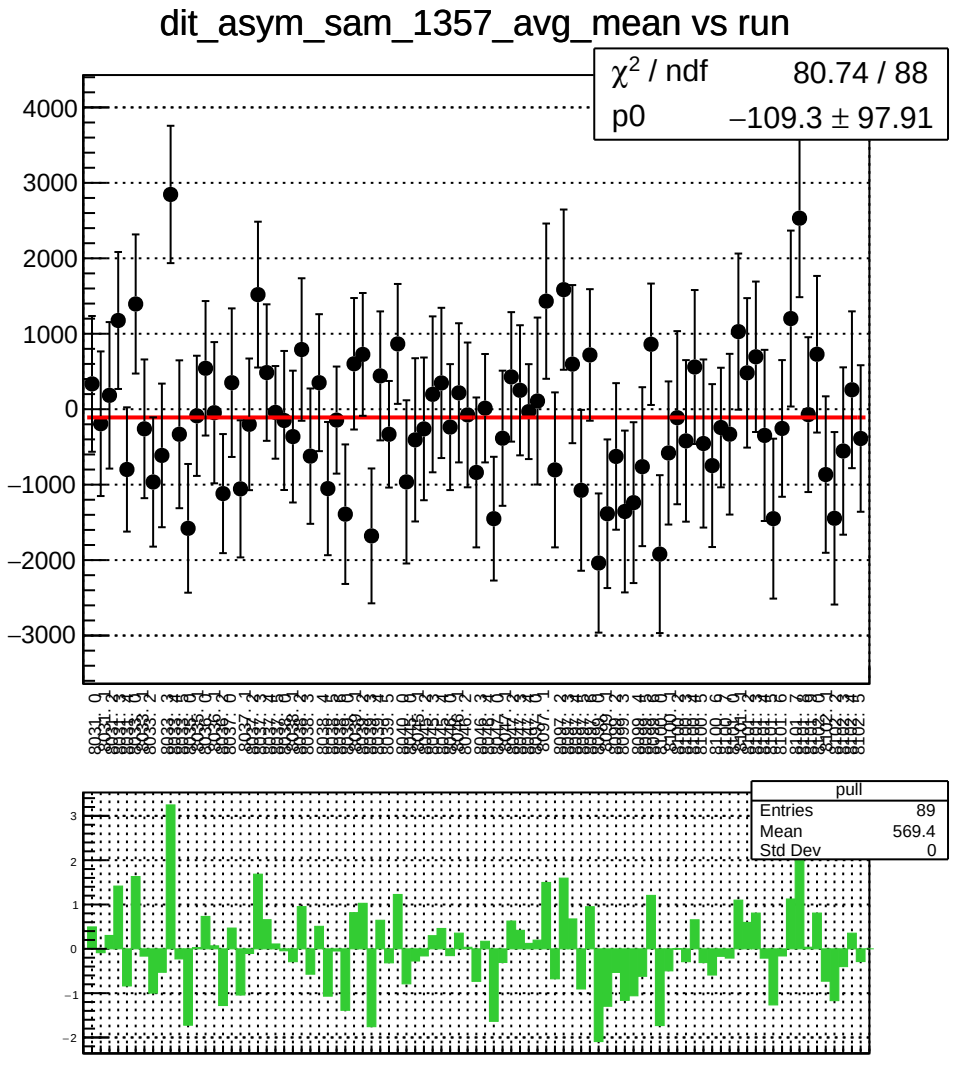

pull1D
Entries 89
Mean −0.01181
Std Dev 0.976
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

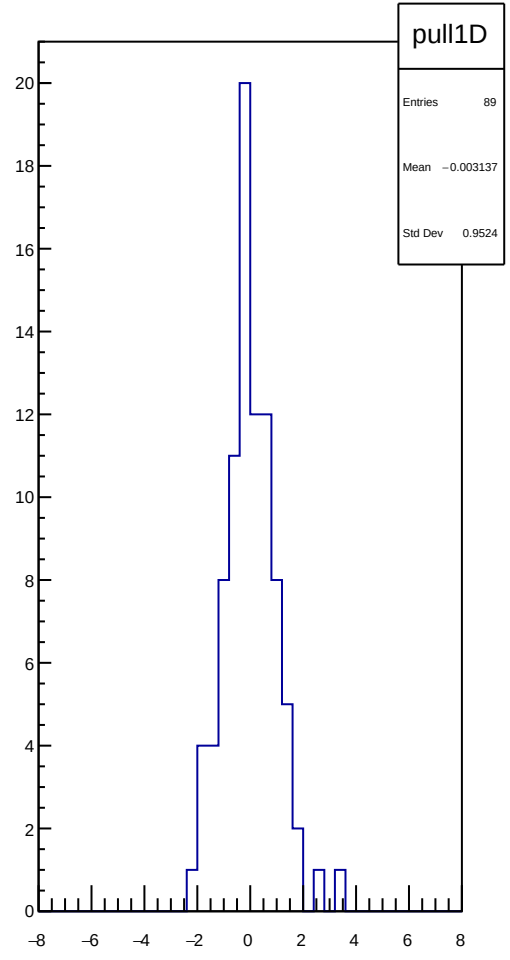

eigen_cor_asym_sam_1357_avg_rms vs run
χ² / ndf 1.662e+04 / 88
p0 83.8 ± 0.0637
105
100
95
90
85
80
75
70

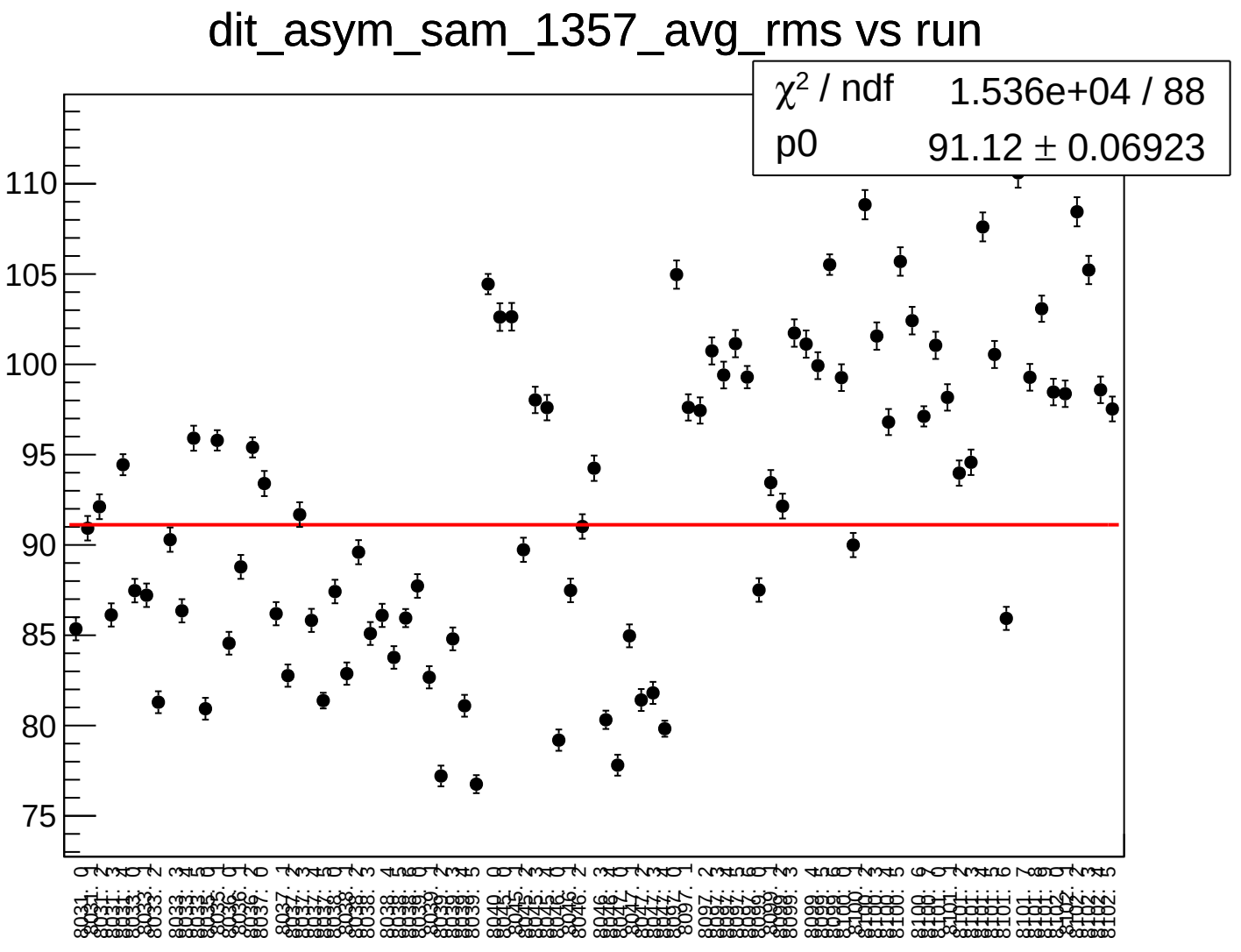

asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 65.95 / 88
p0 −964.6 ± 800.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 220.5
Std Dev 0
2
1
0
−1
−2

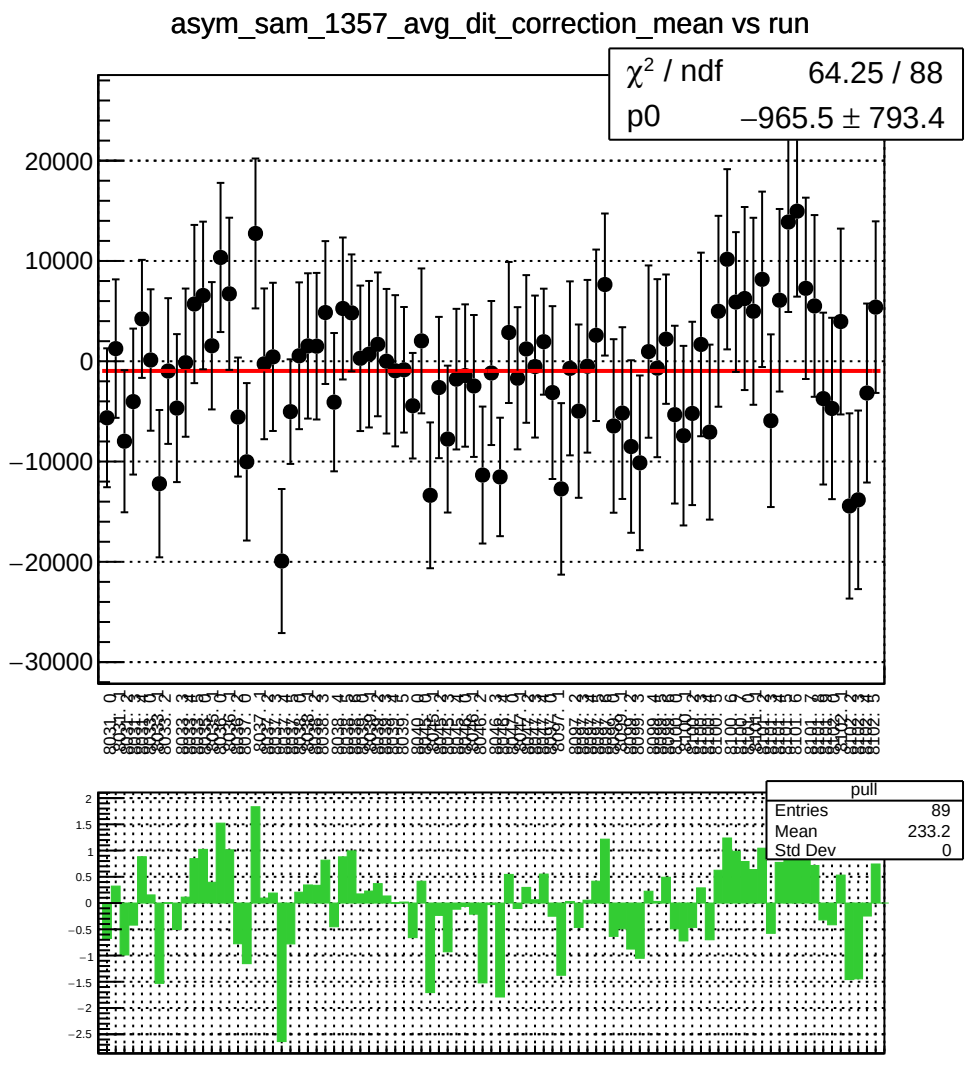

pull1D
Entries 89
Mean 0.00951
Std Dev 0.8607
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

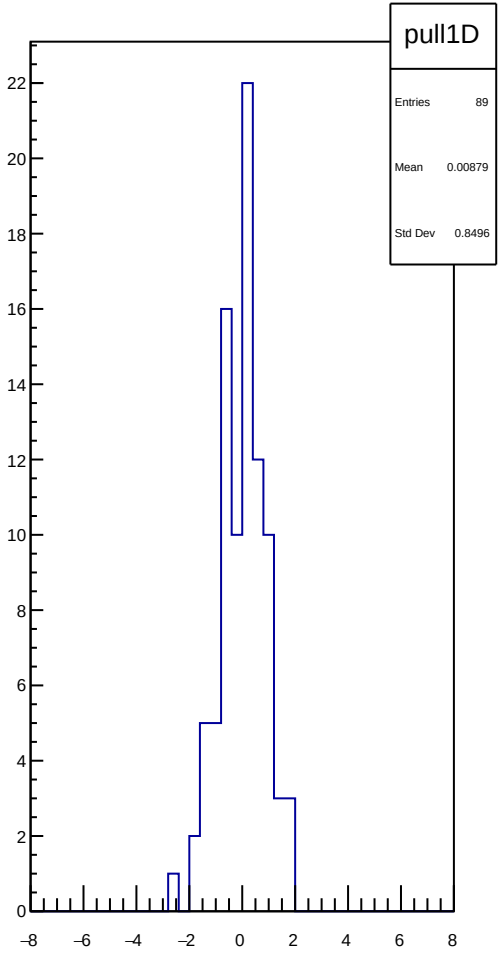

asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.131e+04 / 88
p0 744 ± 0.5663
950
900
850
800
750
700
650

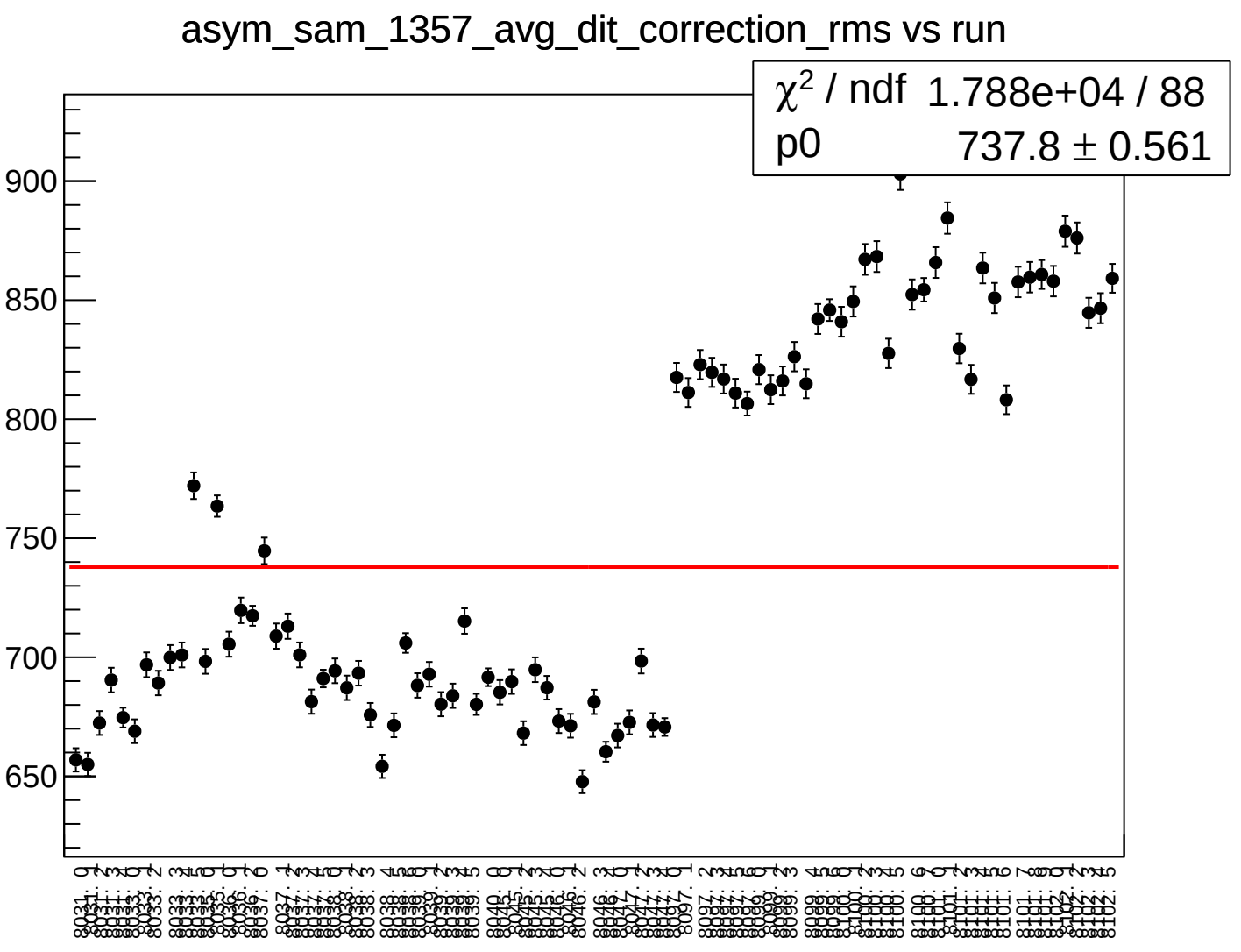

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 80.74 / 88
p0 −109.3 ± 97.91
pull
Entries 89
Mean 569.4
Std Dev 0

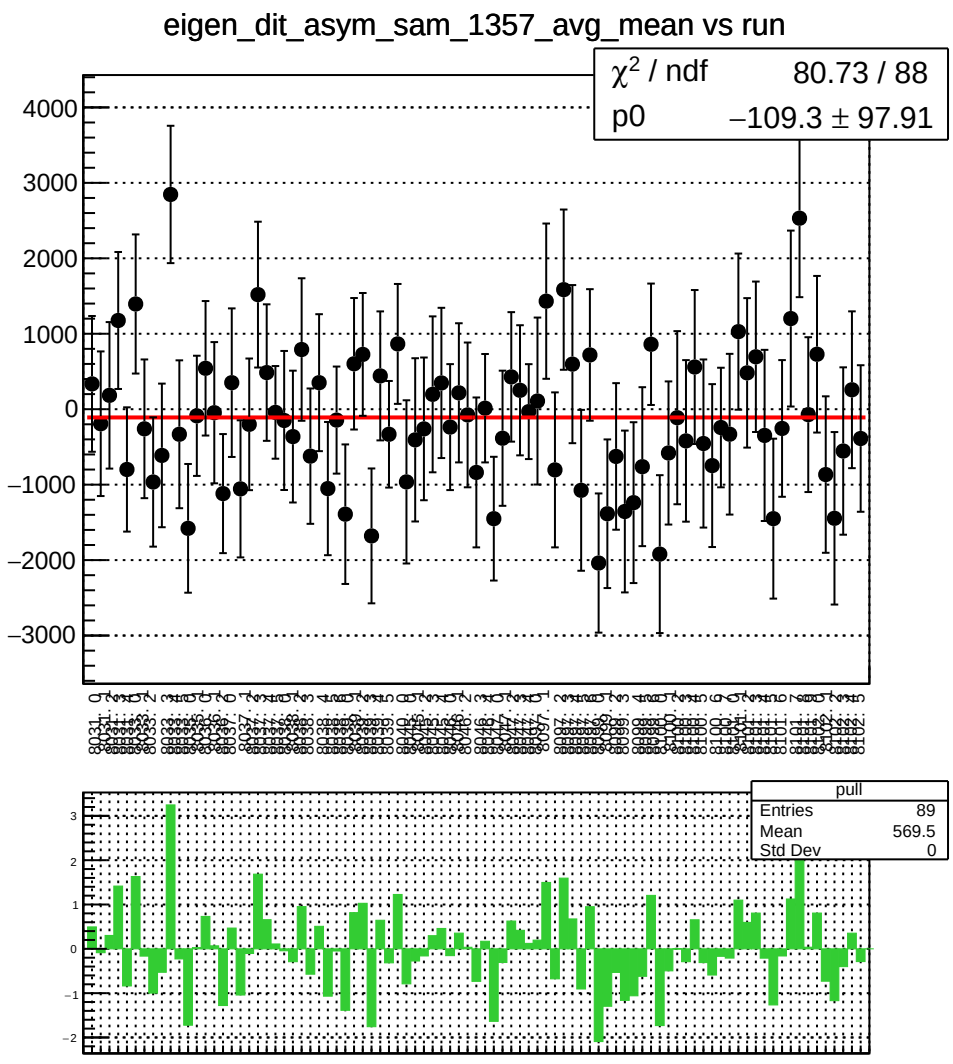

pull1D
Entries 89
Mean −0.003137
Std Dev 0.9524

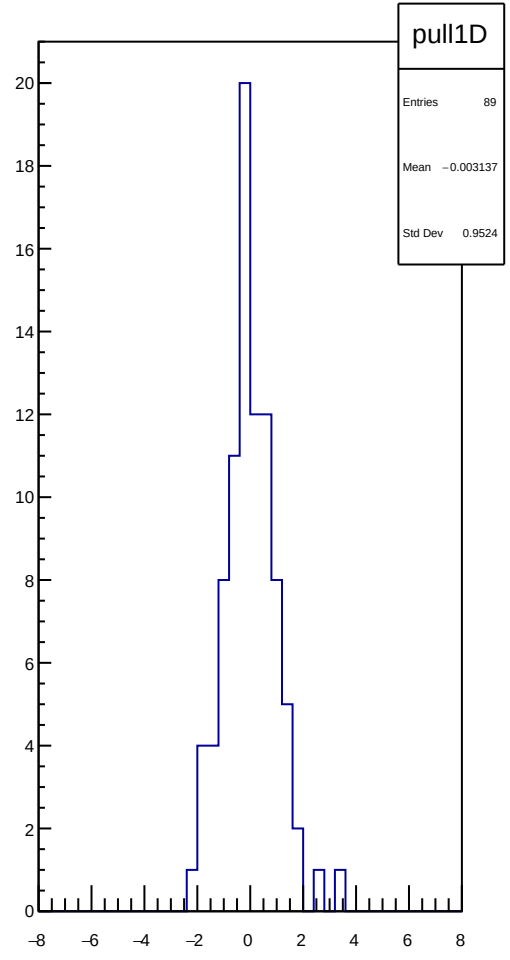

dit_asym_sam_1357_avg_rms vs run
χ² / ndf 1.536e+04 / 88
p0 91.12 ± 0.06923
110
105
100
95
90
85
80
75

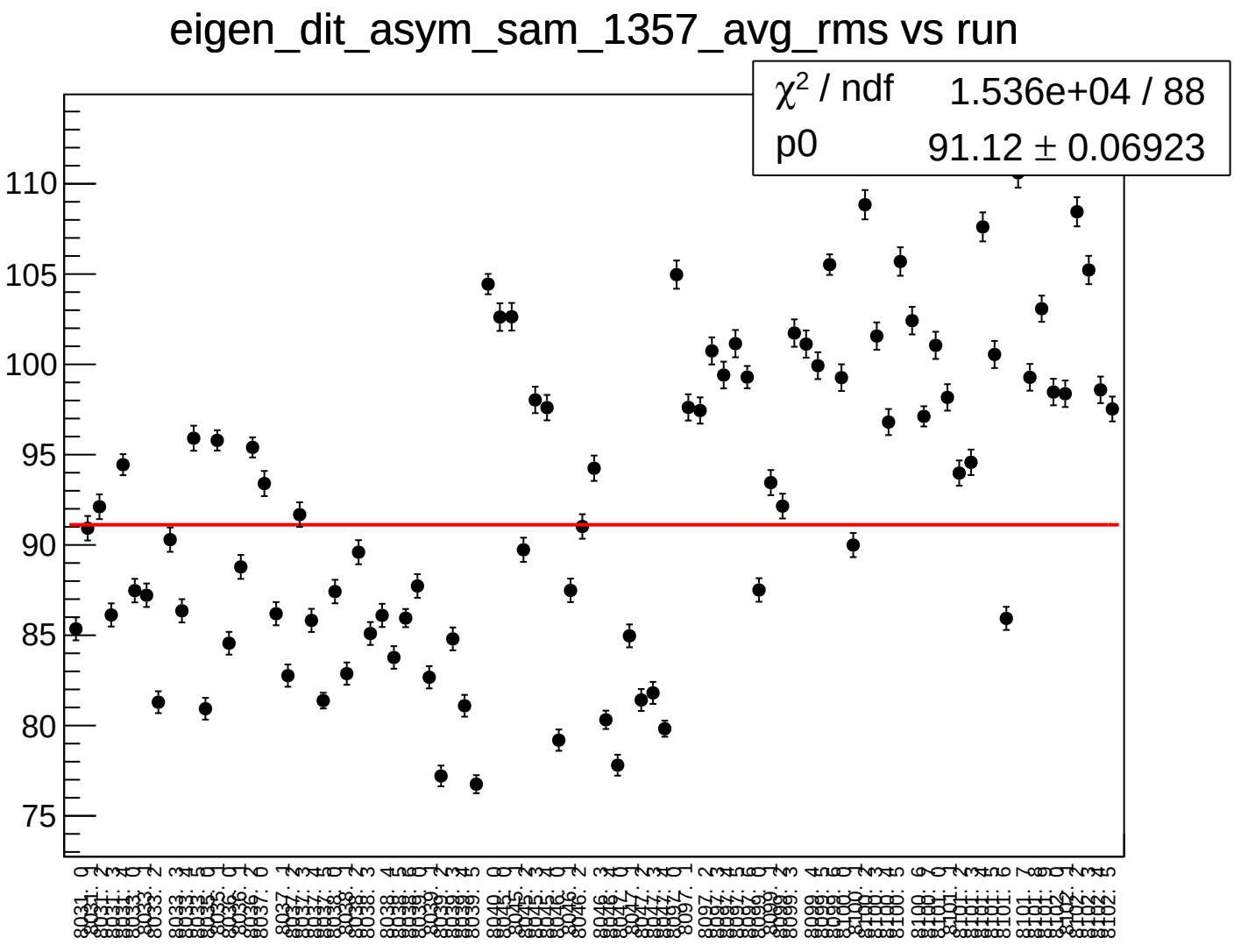

asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 64.25 / 88
p0 −965.5 ± 793.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 233.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

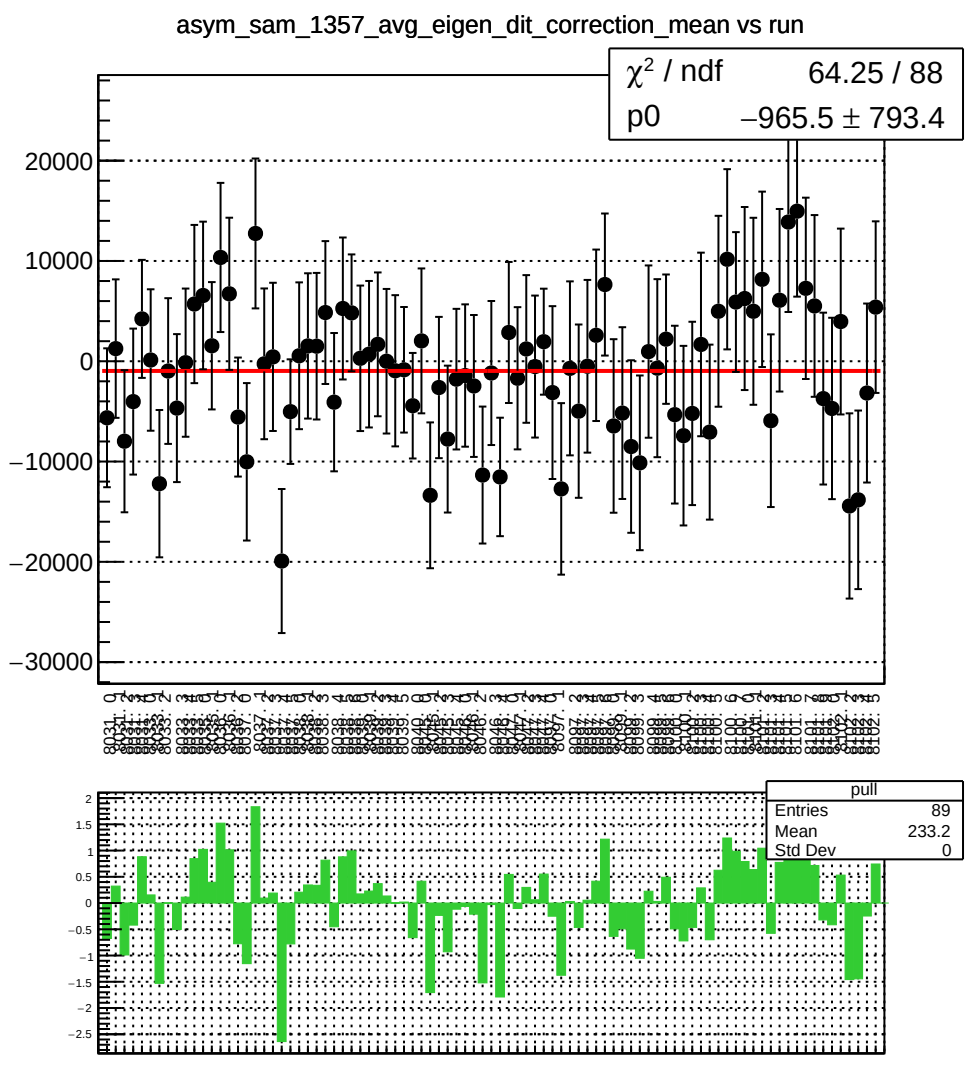

pull1D
Entries 89
Mean 0.00879
Std Dev 0.8496
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

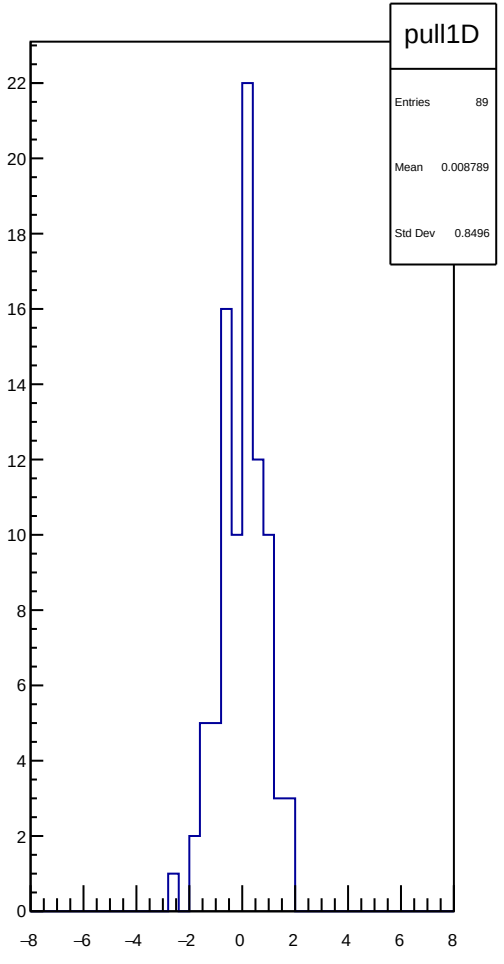

asym_sam_1357_avg_dit_correction_rms vs run
χ² / ndf 1.788e+04 / 88
p0 737.8 ± 0.561
900
850
800
750
700
650

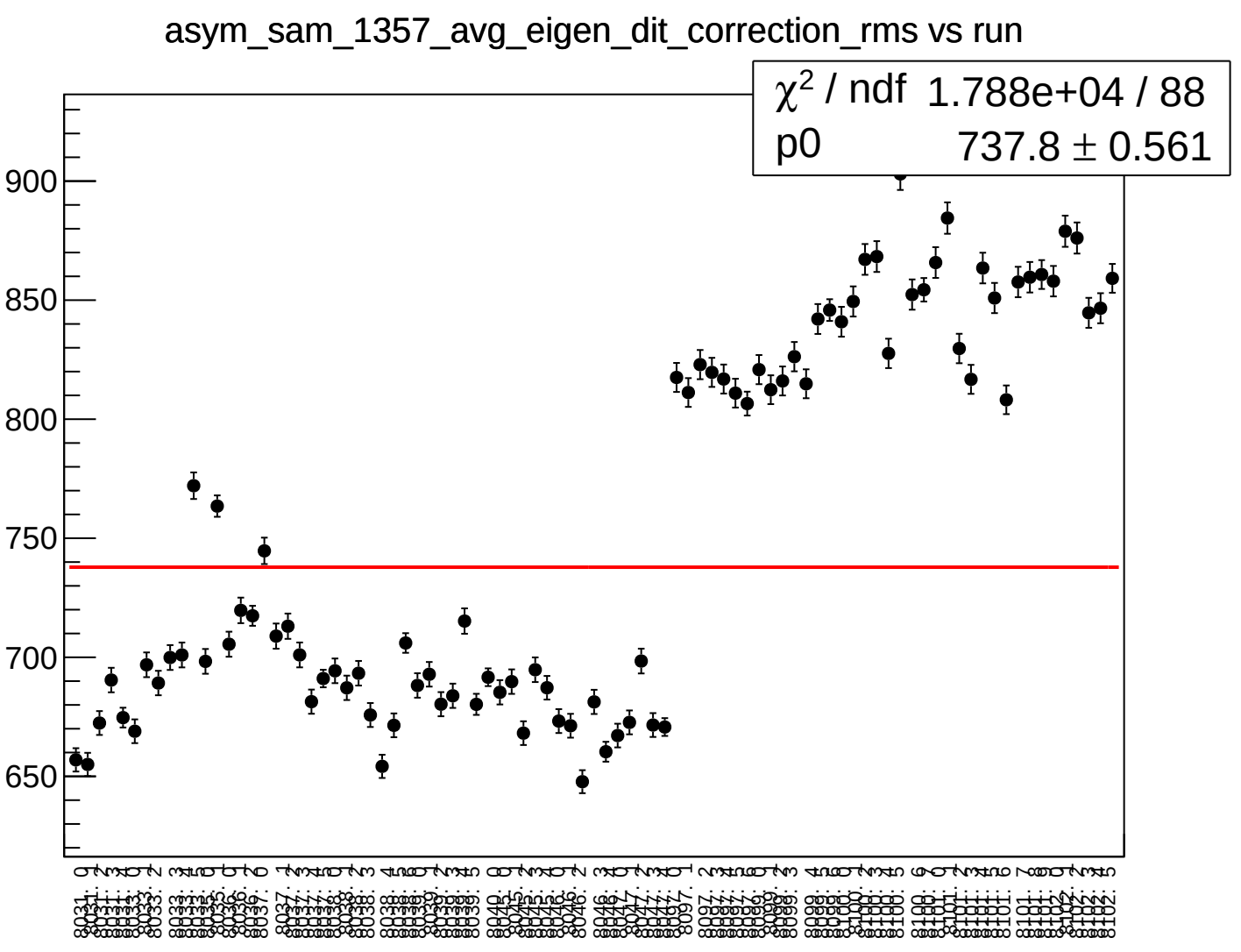

eigen_dit_asym_sam_1357_avg_mean vs run
χ² / ndf 80.73 / 88
p0 −109.3 ± 97.91
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean 569.5
Std Dev 0
3
2
1
0
−1
−2

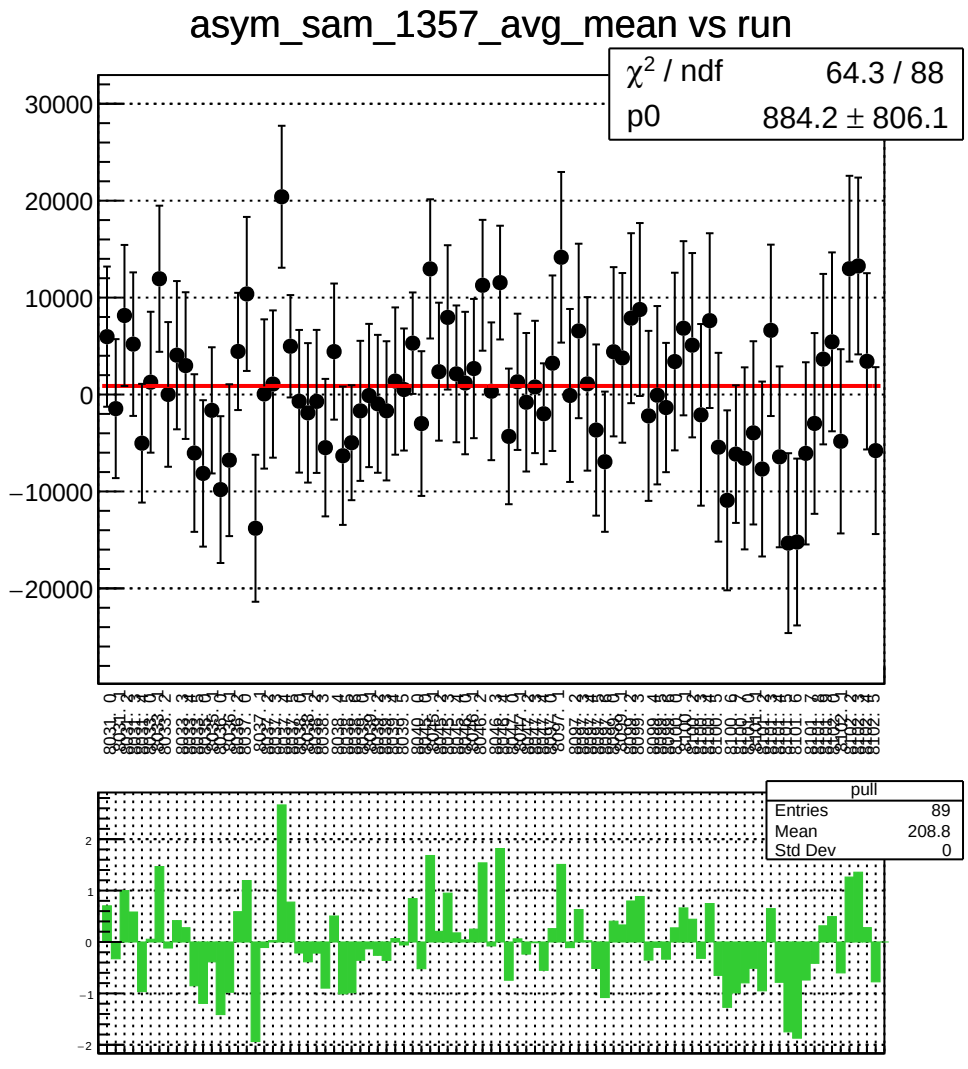

pull1D
Entries 89
Mean −0.003137
Std Dev 0.9524
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

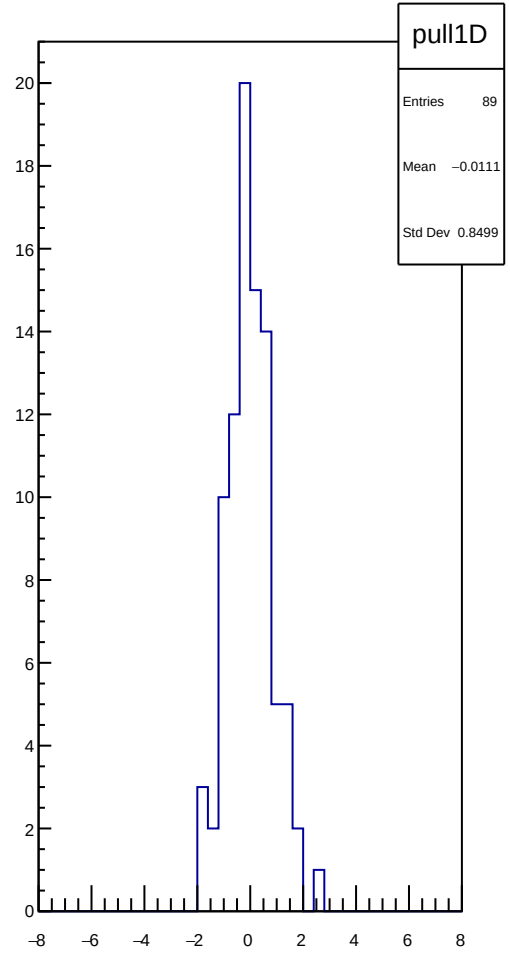

eigen_dit_asym_sam_1357_avg_rms vs run
χ² / ndf 1.536e+04 / 88
p0 91.12 ± 0.06923
110
105
100
95
90
85
80
75

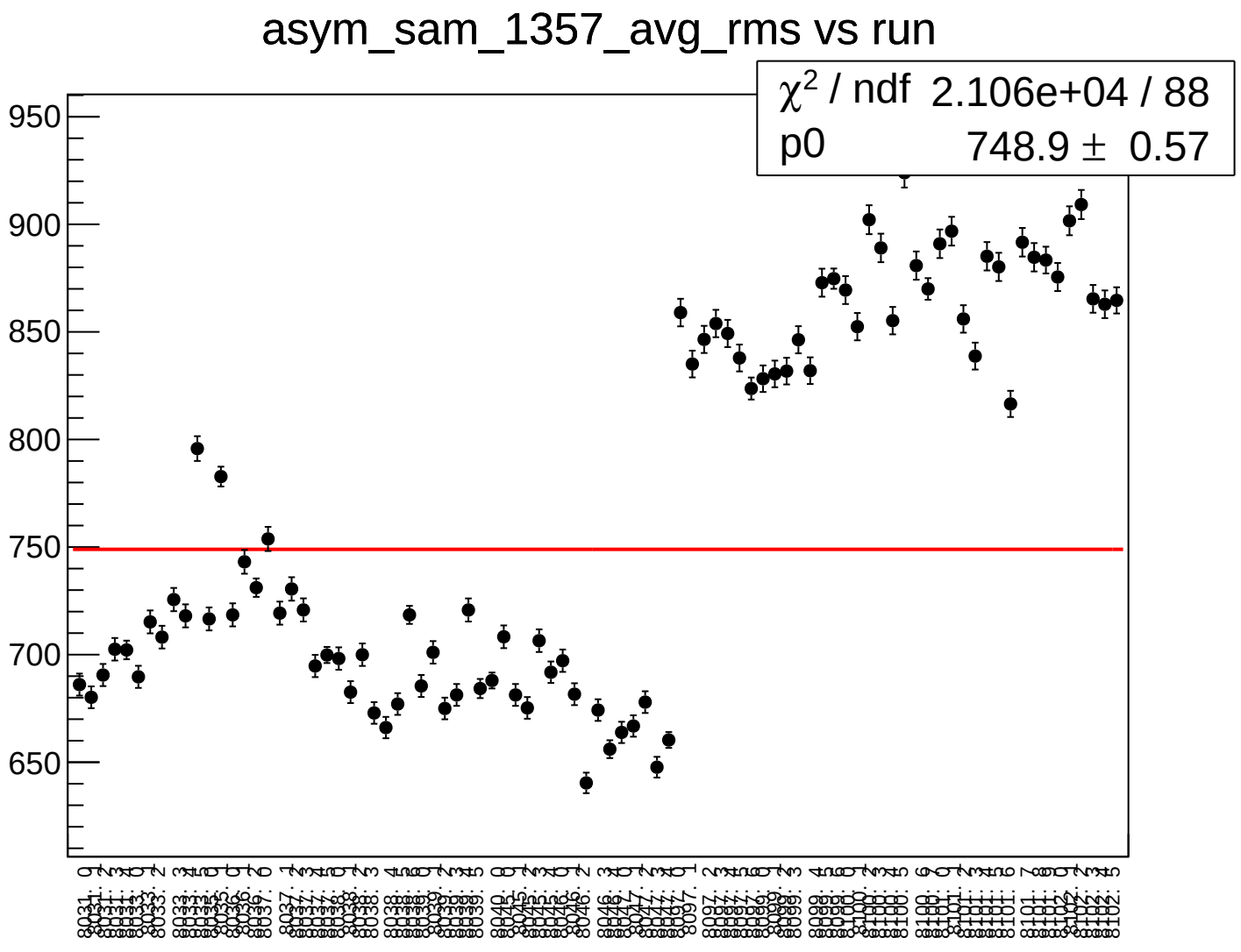

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 64.25 / 88
p0 −965.5 ± 793.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 233.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

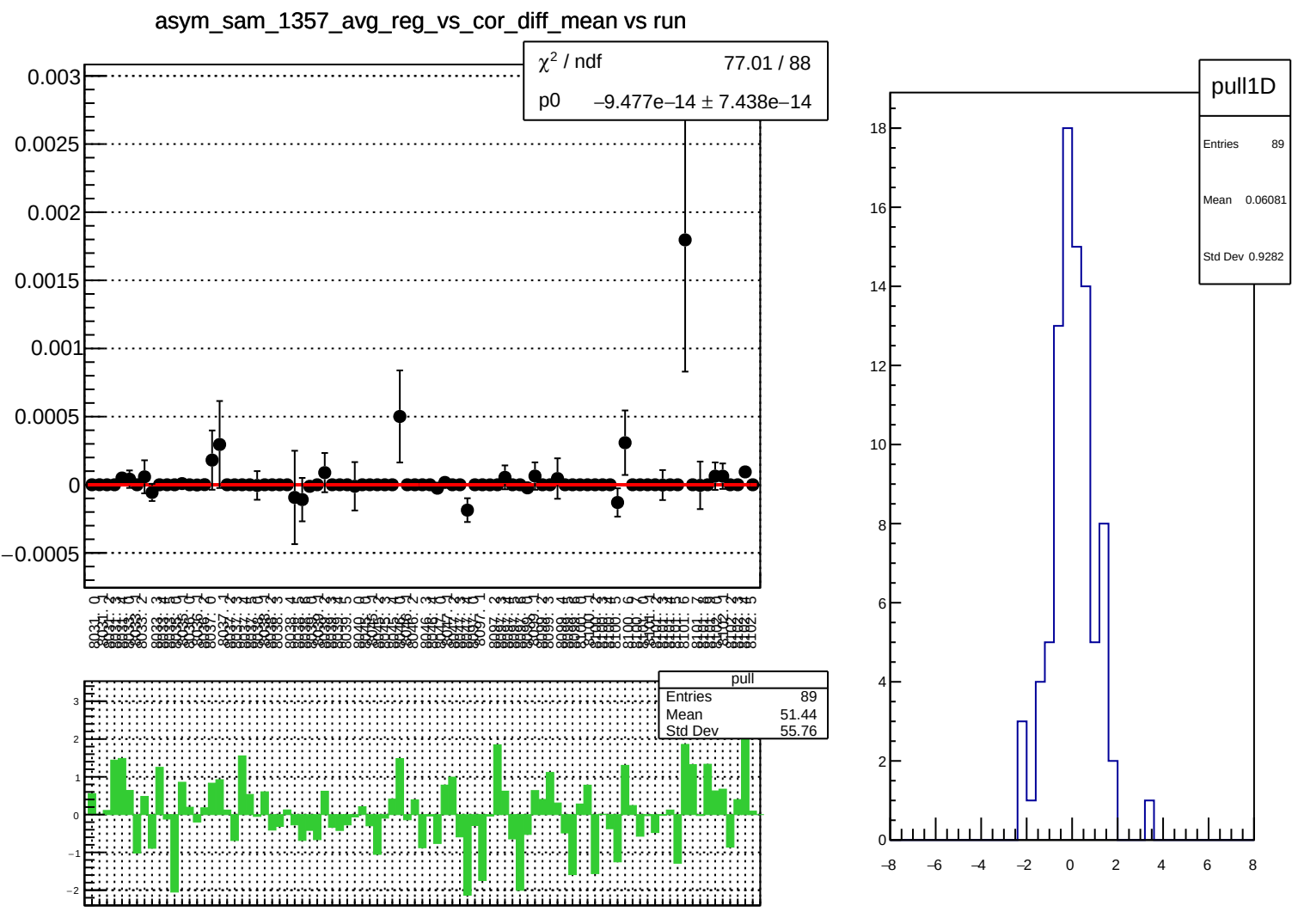

pull1D
Entries 89
Mean 0.008789
Std Dev 0.8496
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

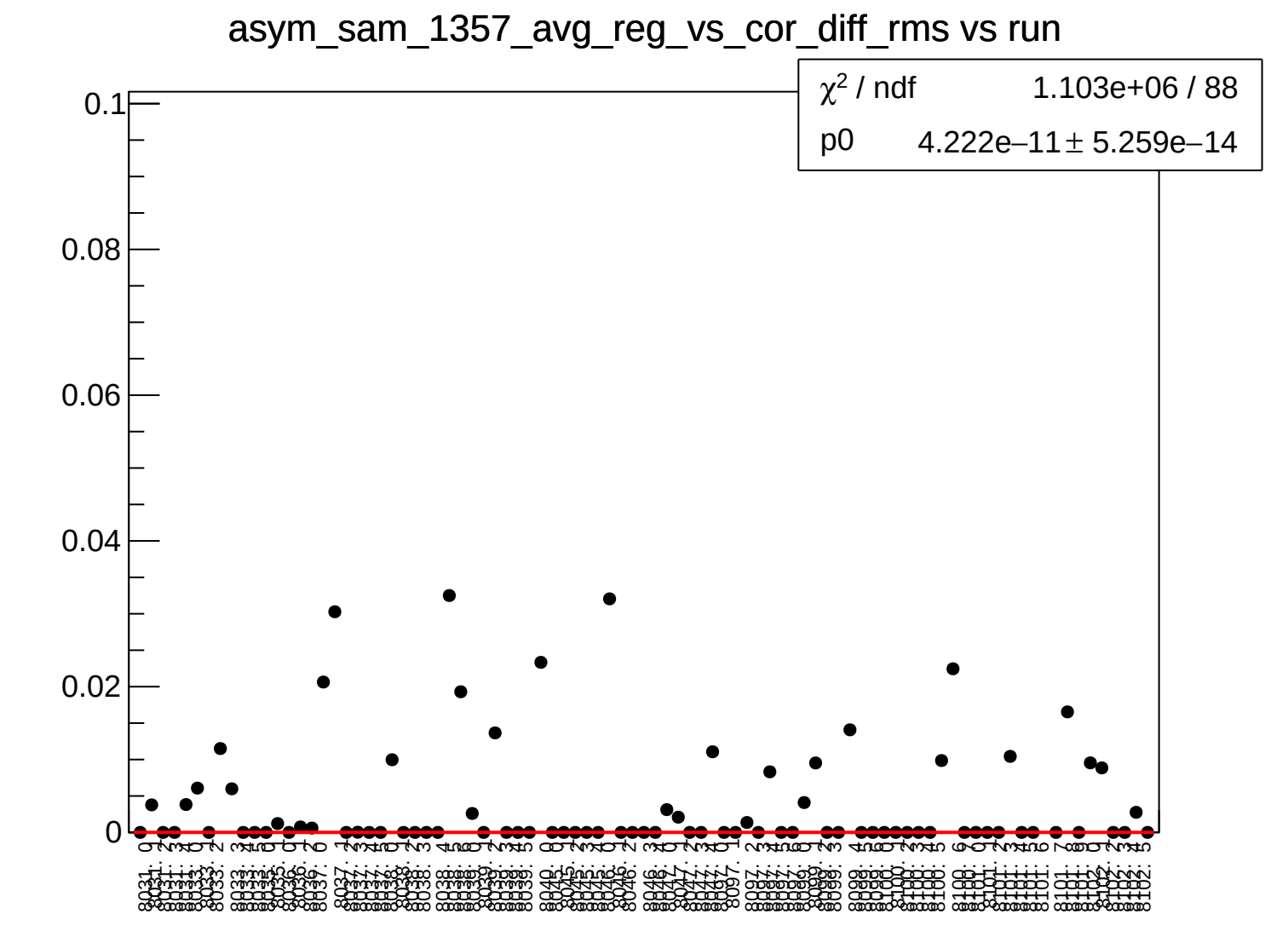

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.788e+04 / 88
p0 737.8 ± 0.561
900
850
800
750
700
650

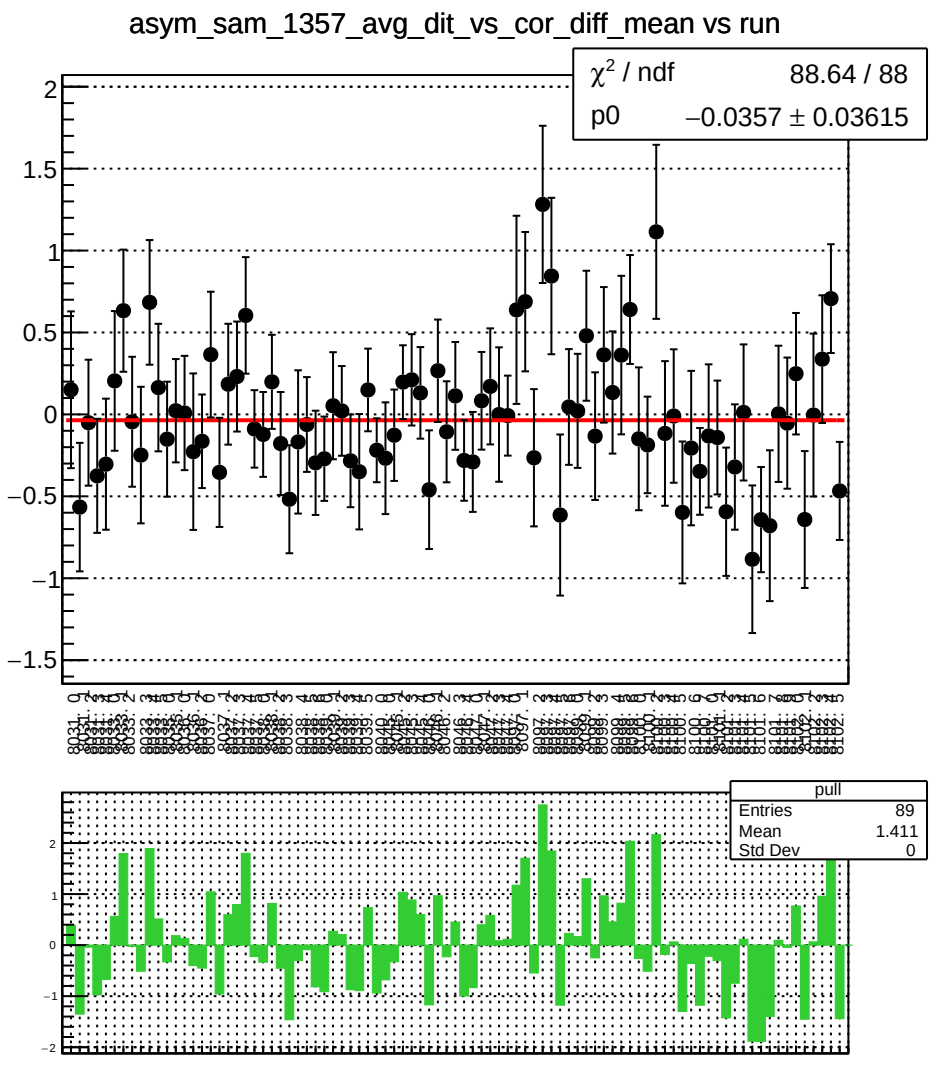

asym_sam_1357_avg_mean vs run
χ² / ndf 64.3 / 88
p0 884.2 ± 806.1
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 208.8
Std Dev 0
2
1
0
−1
−2

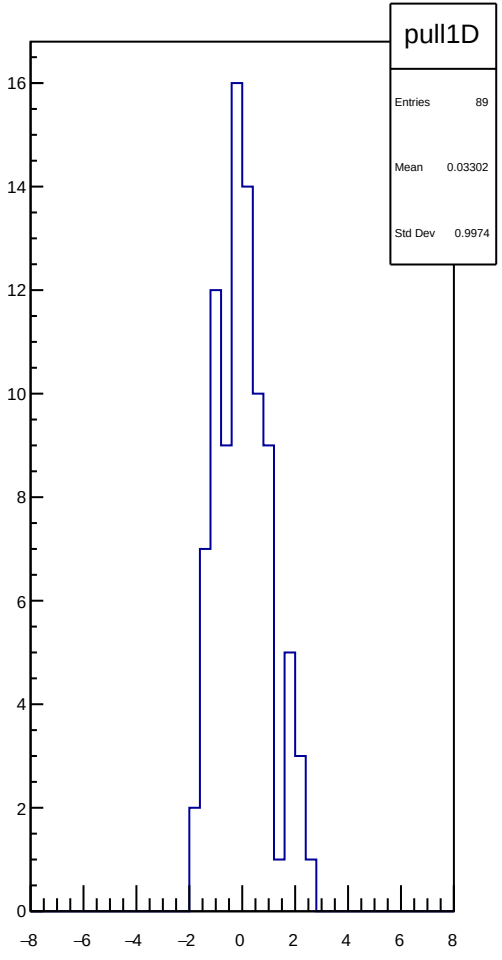

pull1D
Entries 89
Mean −0.0111
Std Dev 0.8499
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

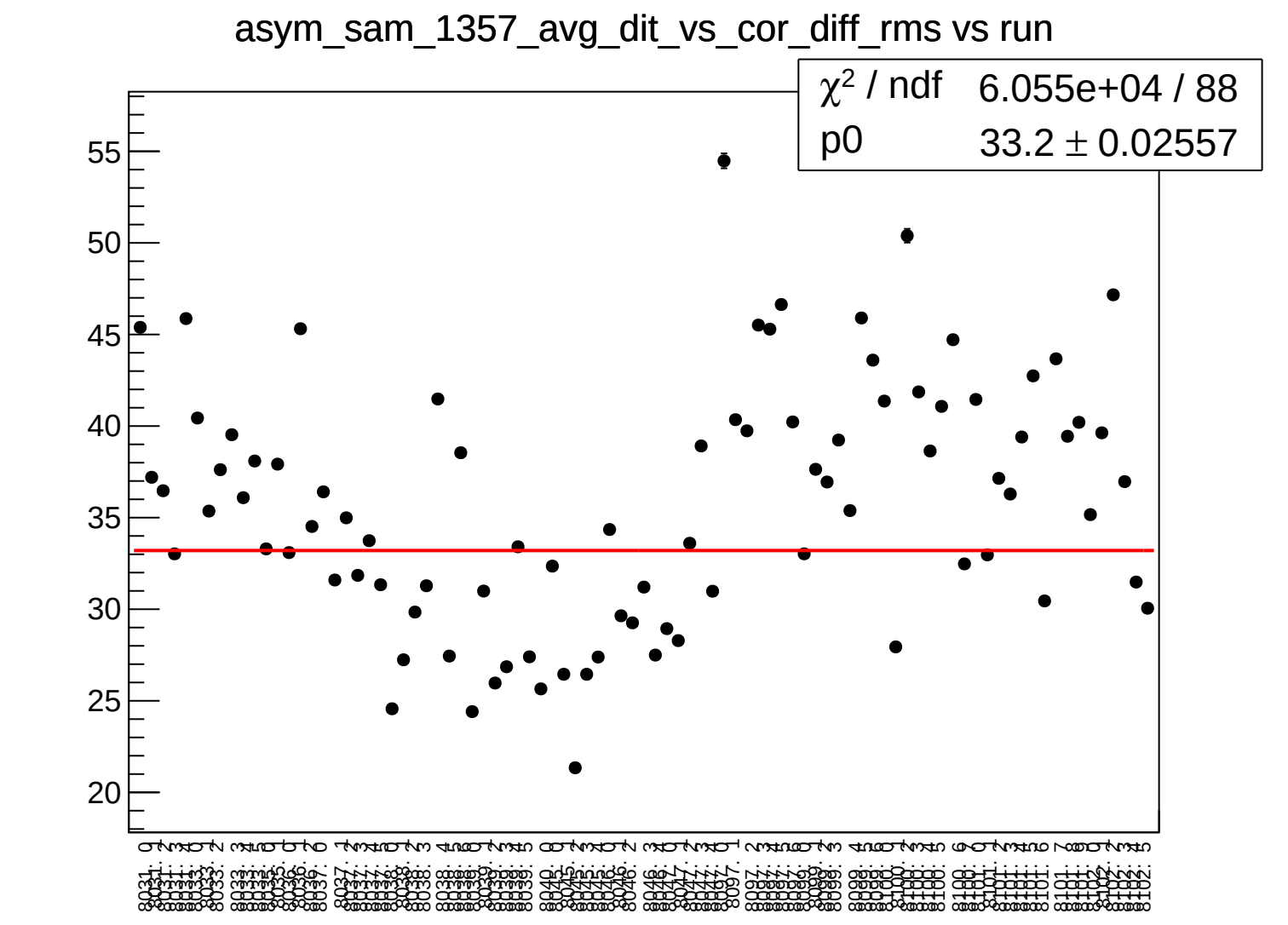

asym_sam_1357_avg_rms vs run
χ² / ndf 2.106e+04 / 88
p0 748.9 ± 0.57
950
900
850
800
750
700
650

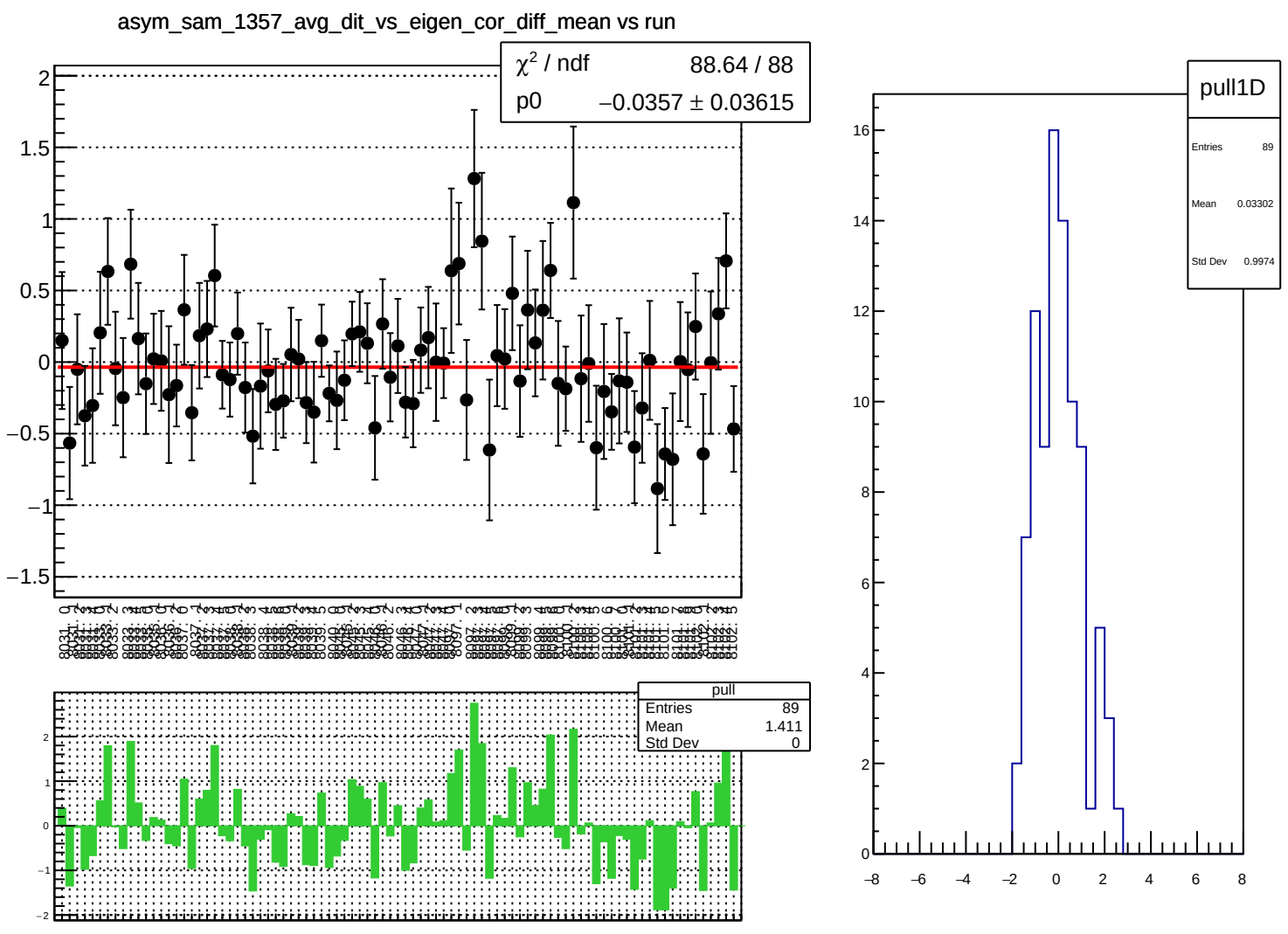

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 77.01 / 88
p0 −9.477e−14 ± 7.438e−14
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
−0.0005
pull
Entries 89
Mean 51.44
Std Dev 55.76
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.06081
Std Dev 0.9282
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

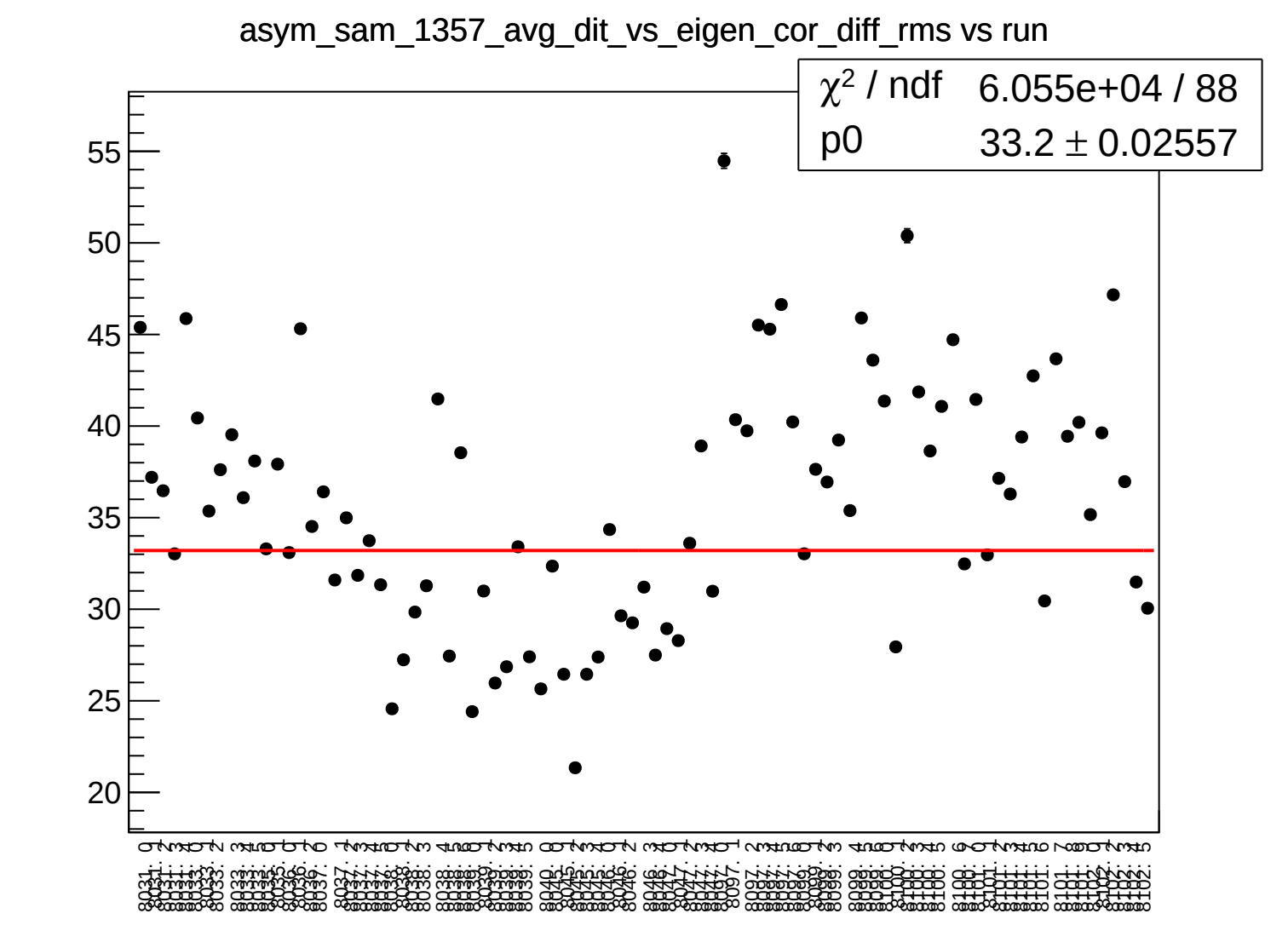

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.103e+06 / 88
p0 4.222e−11 ± 5.259e−14
0.1
0.08
0.06
0.04
0.02
0

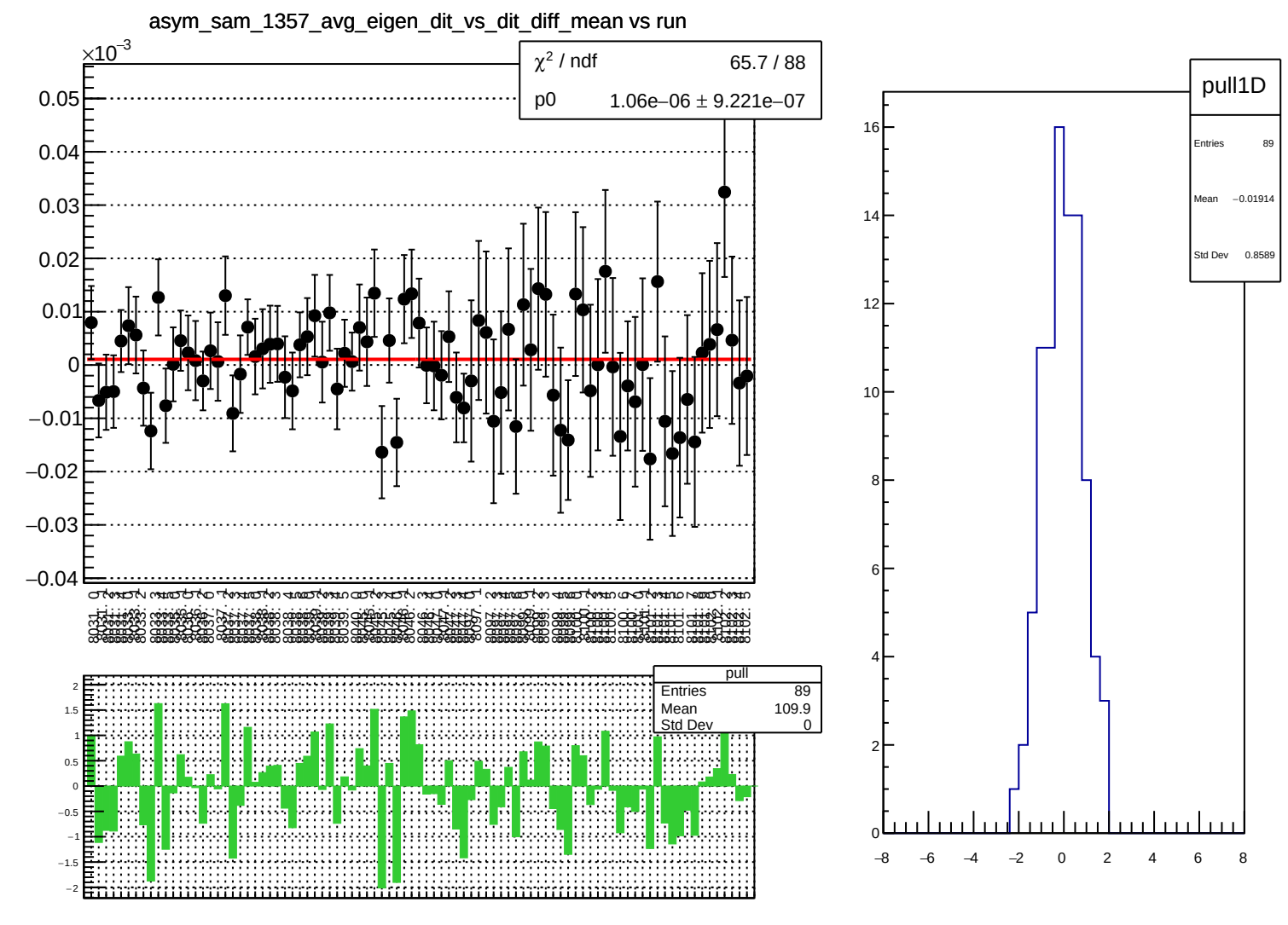

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 88.64 / 88
p0 −0.0357 ± 0.03615
pull
Entries 89
Mean 1.411
Std Dev 0

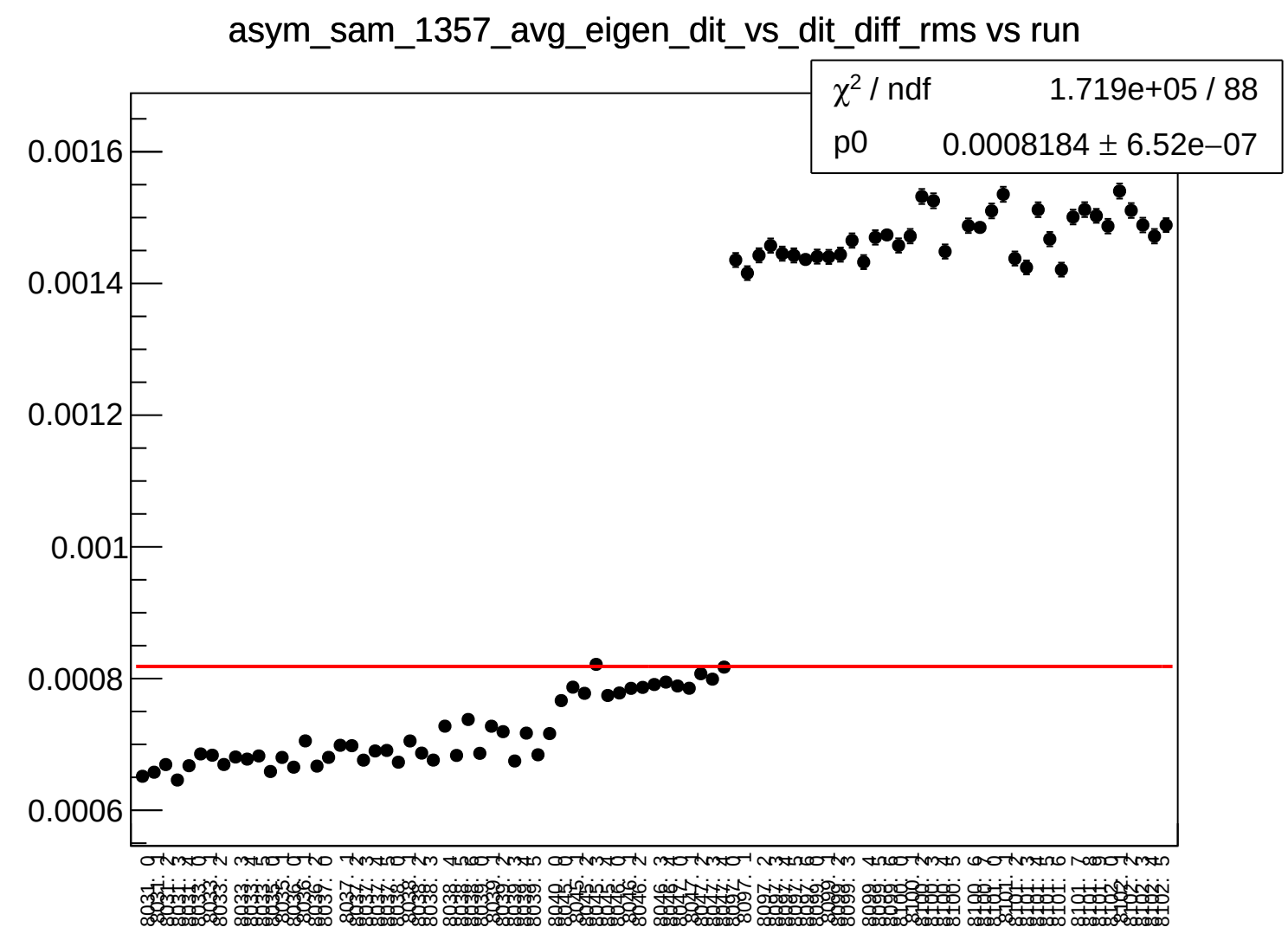

pull1D
Entries 89
Mean 0.03302
Std Dev 0.9974

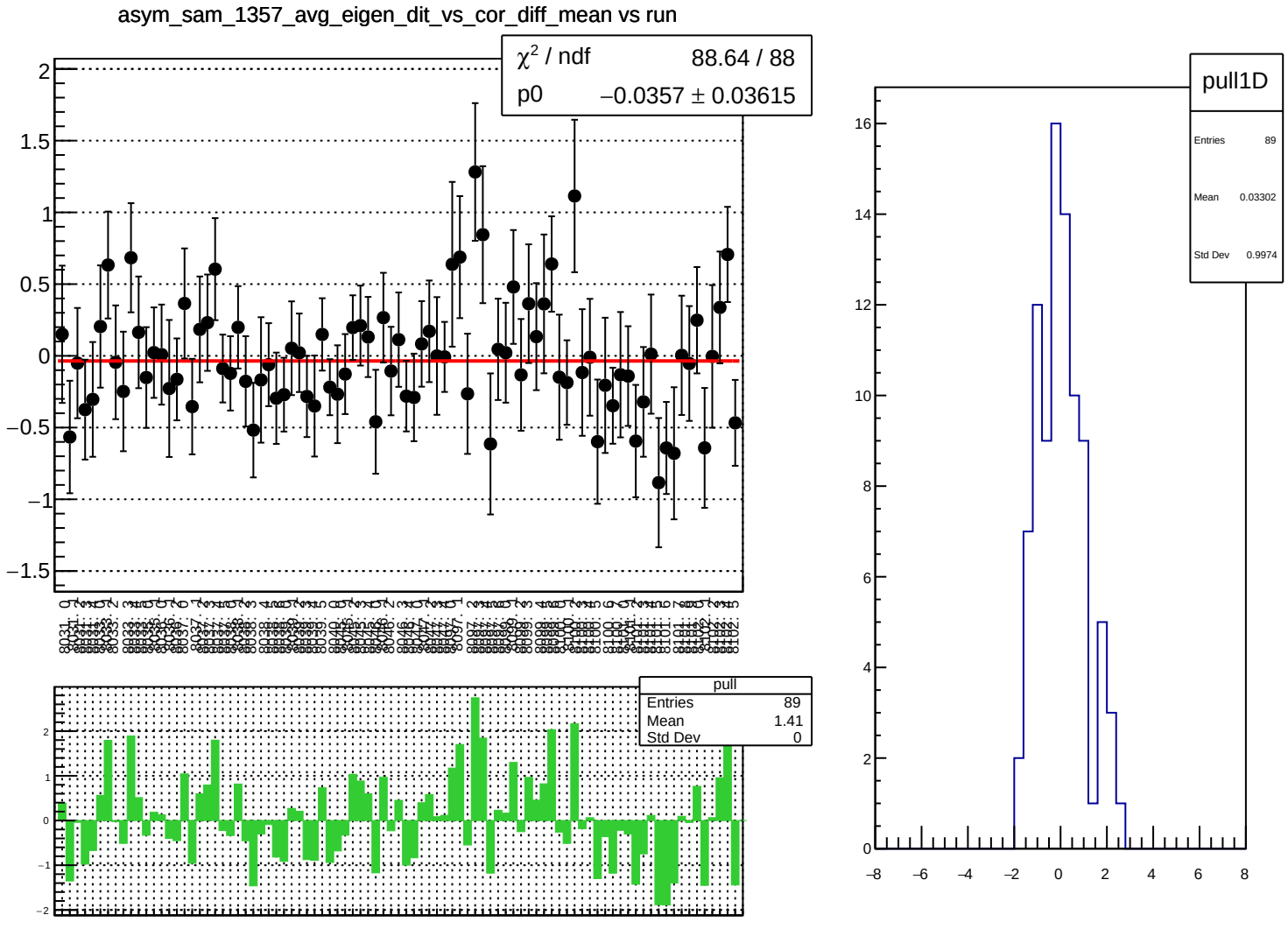

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.055e+04 / 88
p0 33.2 ± 0.02557
55
50
45
40
35
30
25
20

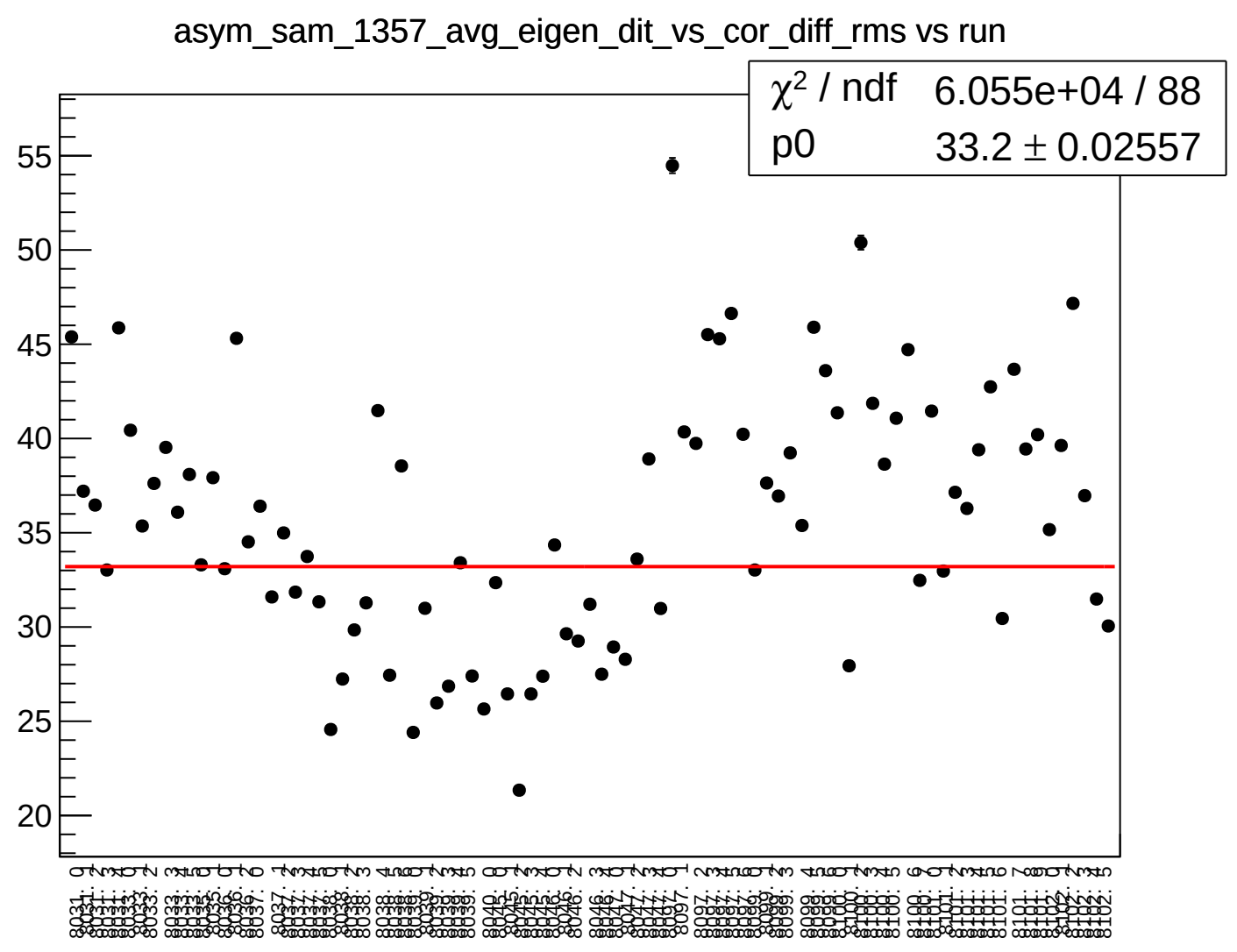

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.64 / 88
p0 −0.0357 ± 0.03615
pull
Entries 89
Mean 1.411
Std Dev 0
pull1D
Entries 89
Mean 0.03302
Std Dev 0.9974

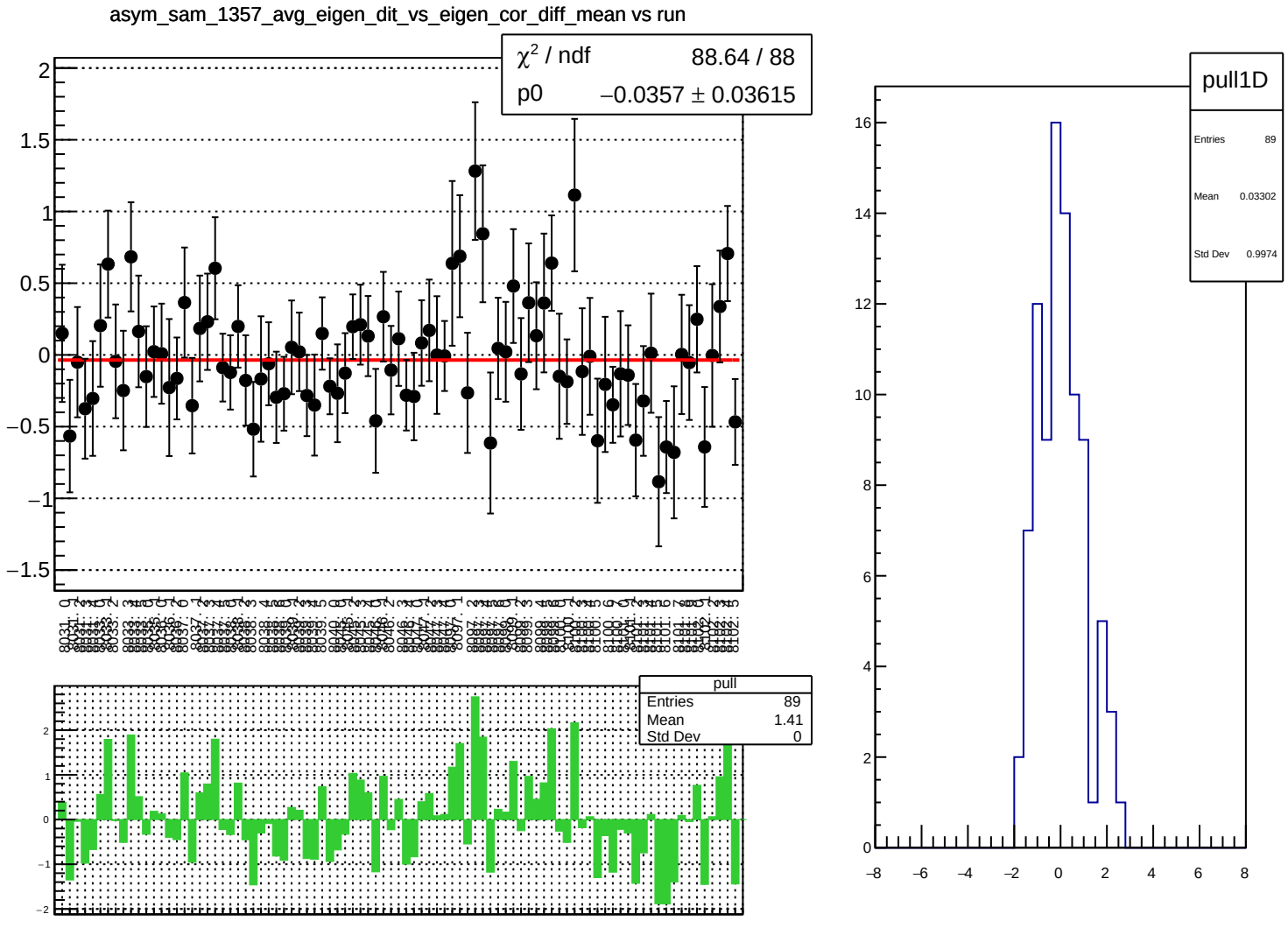

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.055e+04 / 88
p0 33.2 ± 0.02557
55
50
45
40
35
30
25
20

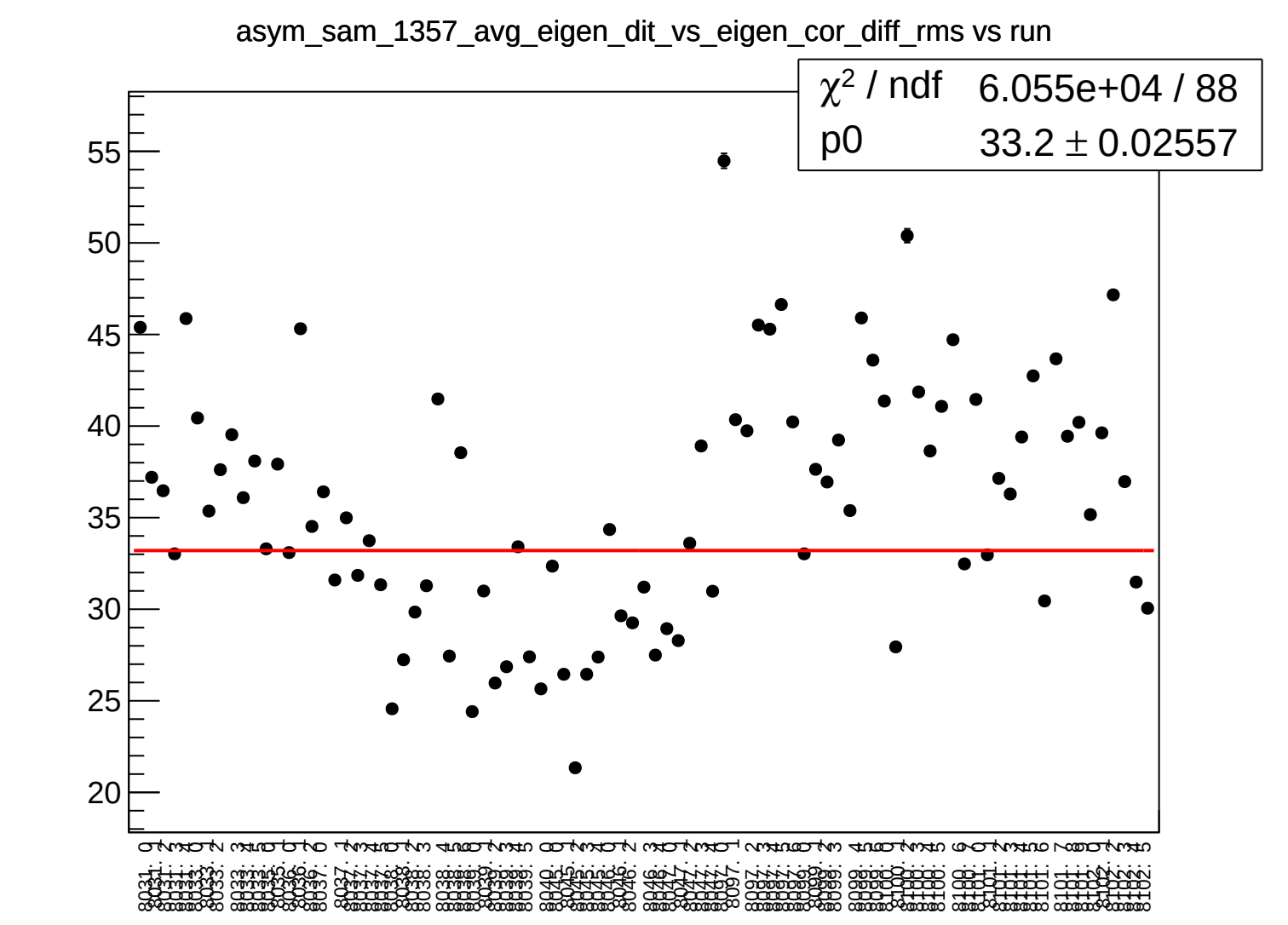

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 65.7 / 88
p0 1.06e−06 ± 9.221e−07
pull
Entries 89
Mean 109.9
Std Dev 0
pull1D
Entries 89
Mean −0.01914
Std Dev 0.8589

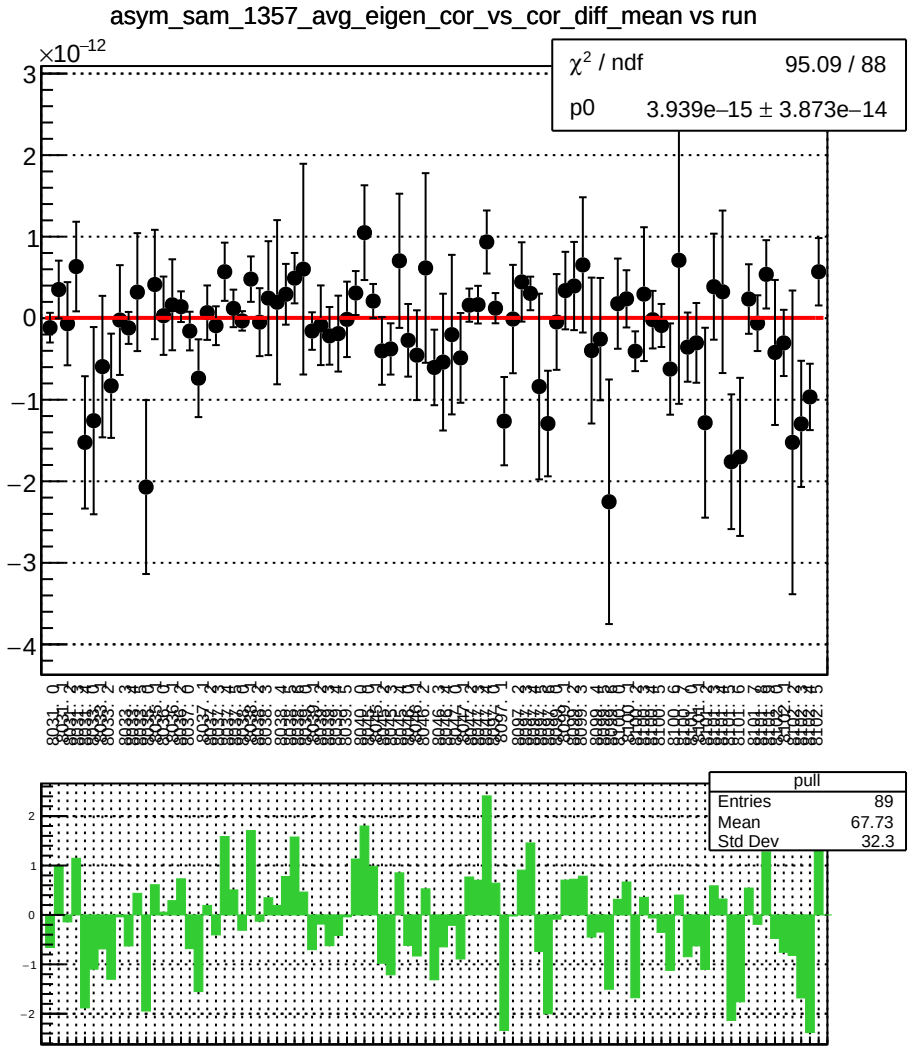

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.719e+05 / 88
p0 0.0008184 ± 6.52e−07
0.0016
0.0014
0.0012
0.001
0.0008
0.0006

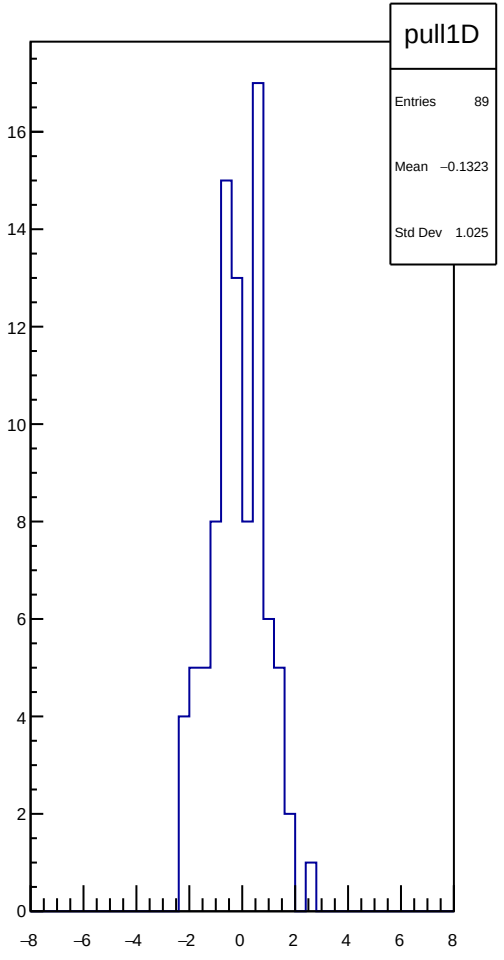

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.64 / 88
p0 −0.0357 ± 0.03615
pull
Entries 89
Mean 1.41
Std Dev 0
pull1D
Entries 89
Mean 0.03302
Std Dev 0.9974

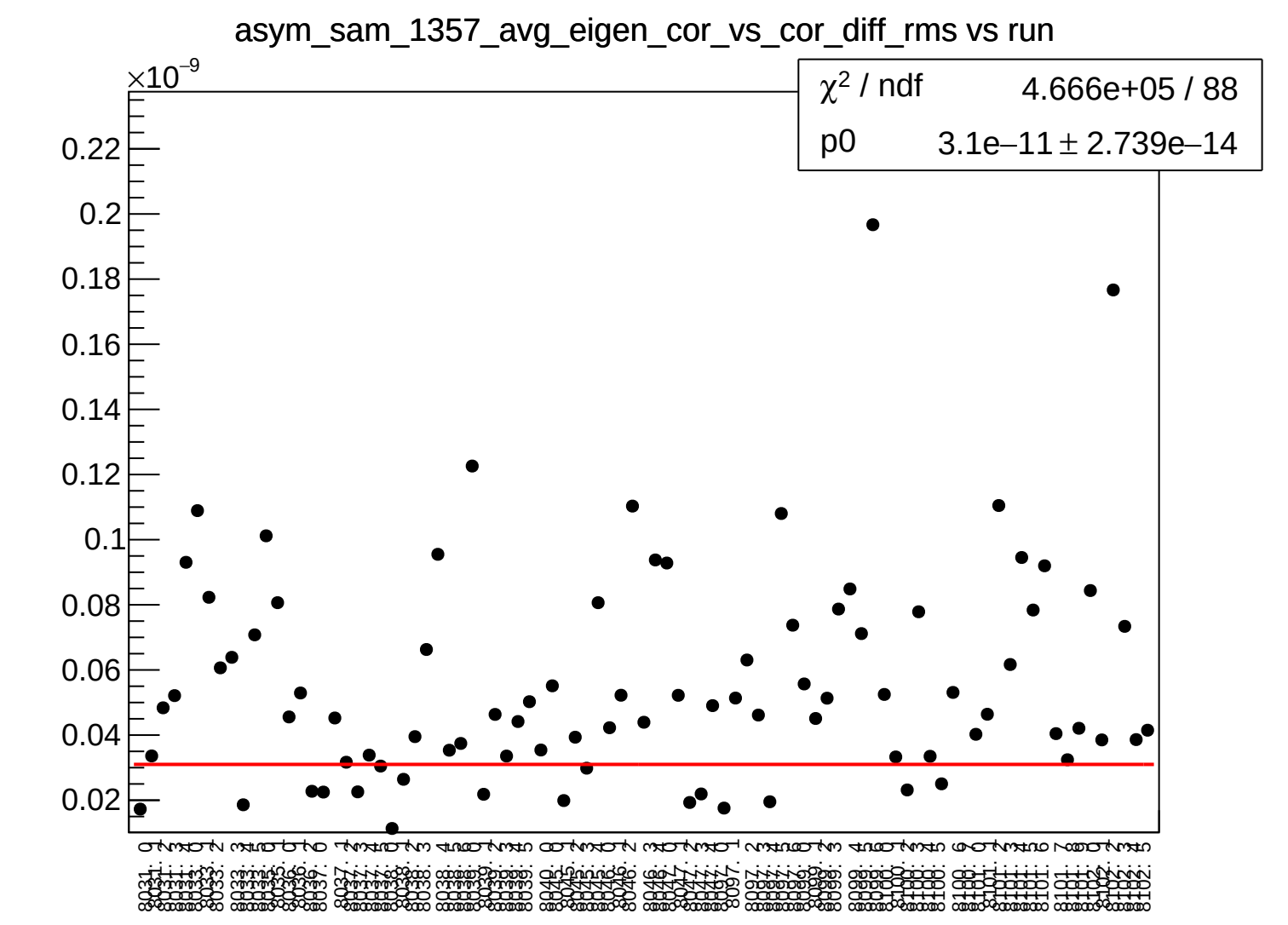

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.055e+04 / 88
p0 33.2 ± 0.02557
55
50
45
40
35
30
25
20

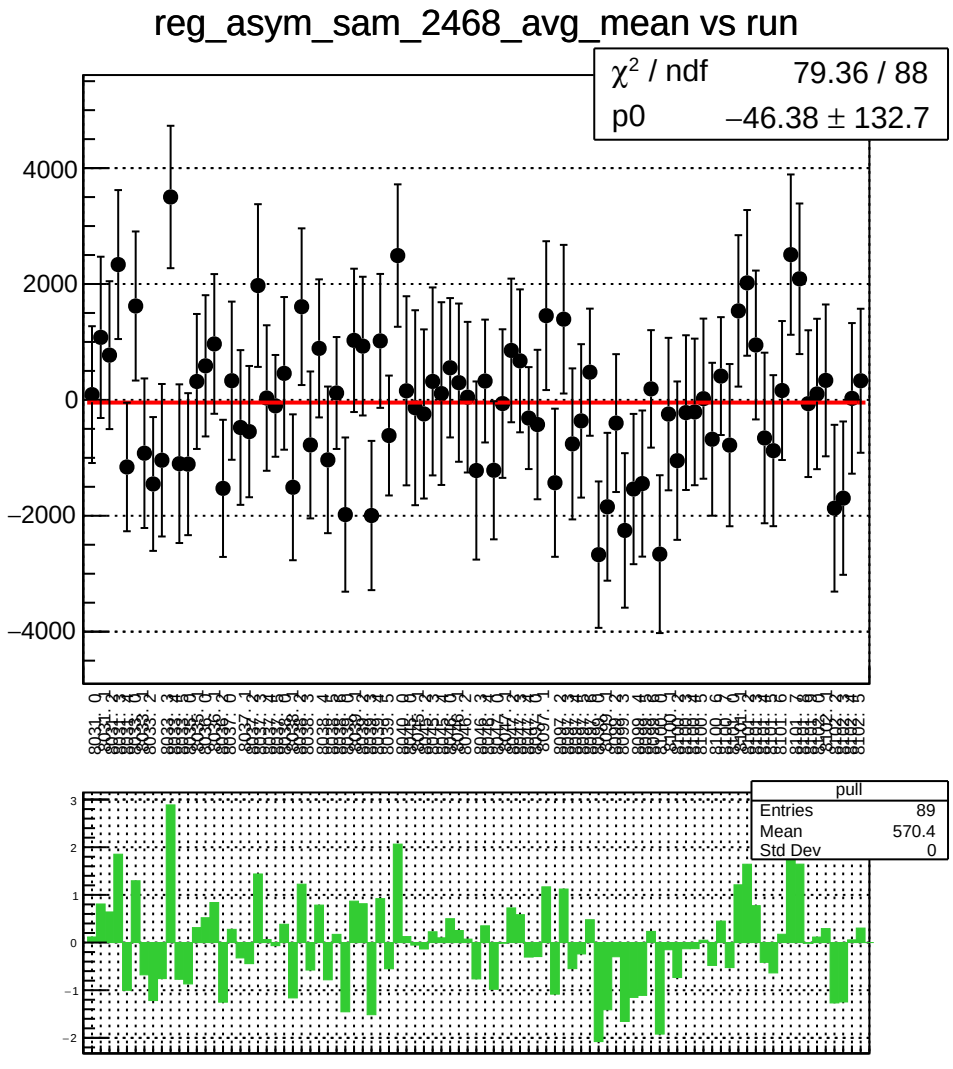

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.64 / 88
p0 −0.0357 ± 0.03615
pull
Entries 89
Mean 1.41
Std Dev 0
pull1D
Entries 89
Mean 0.03302
Std Dev 0.9974

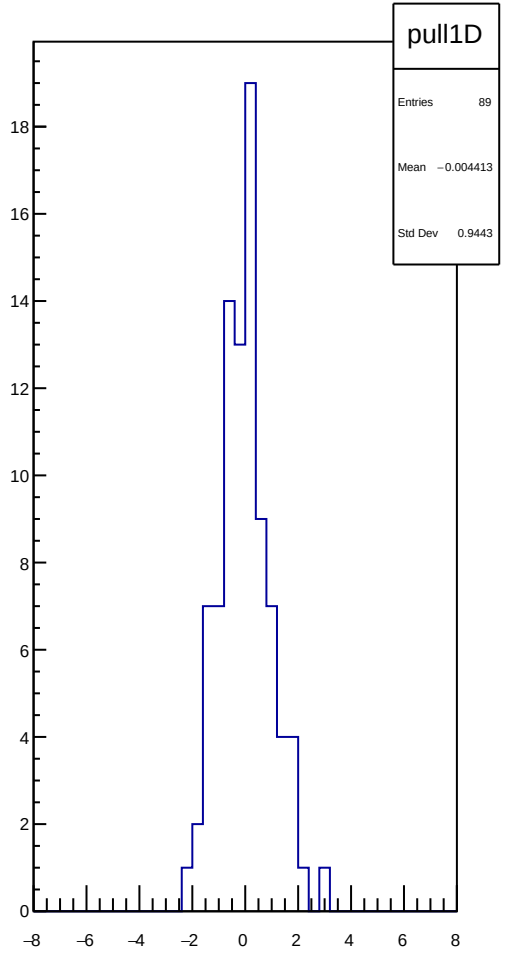

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.055e+04 / 88
p0 33.2 ± 0.02557
55
50
45
40
35
30
25
20

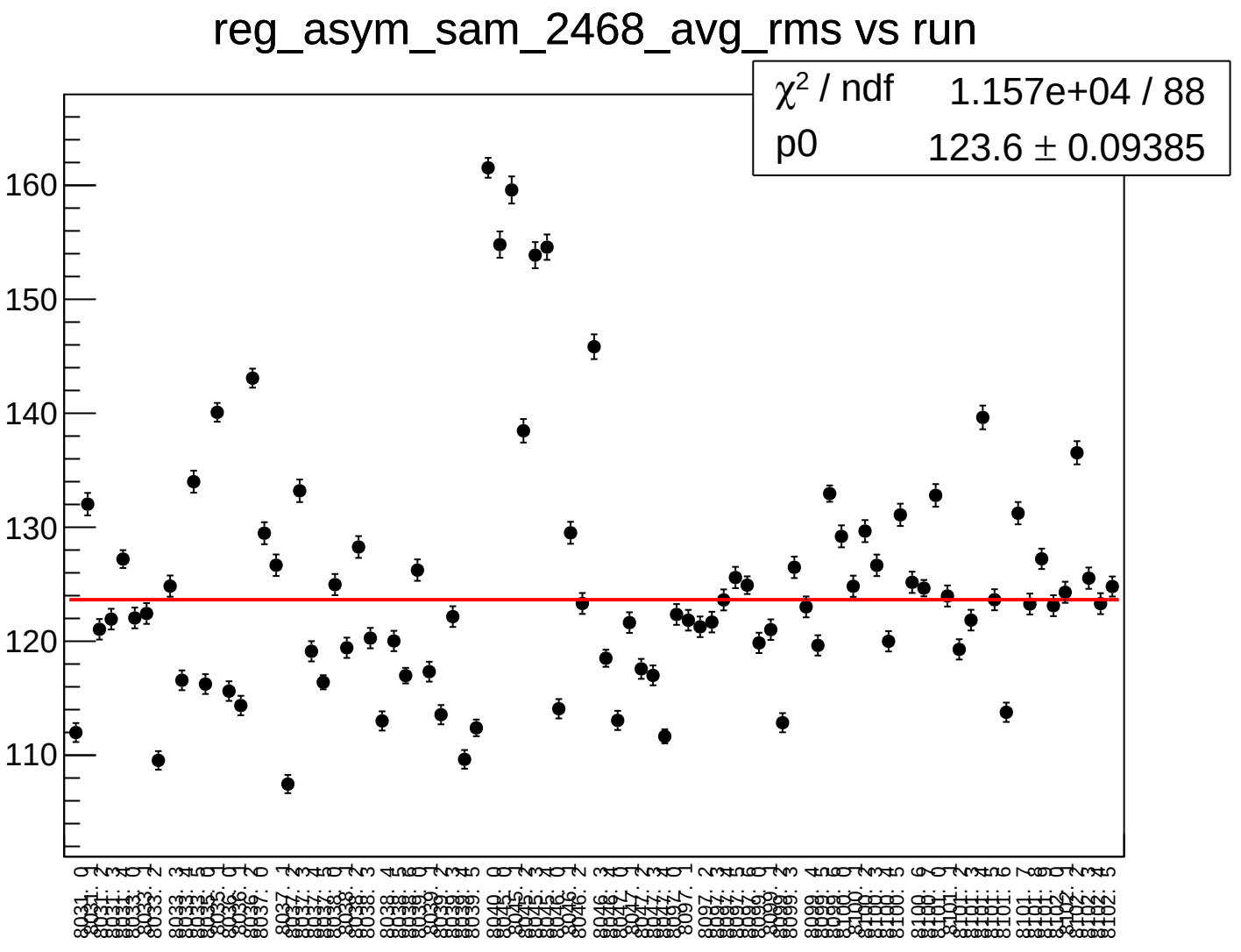

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.09 / 88
p0 3.939e−15 ± 3.873e−14
pull
Entries 89
Mean 67.73
Std Dev 32.3

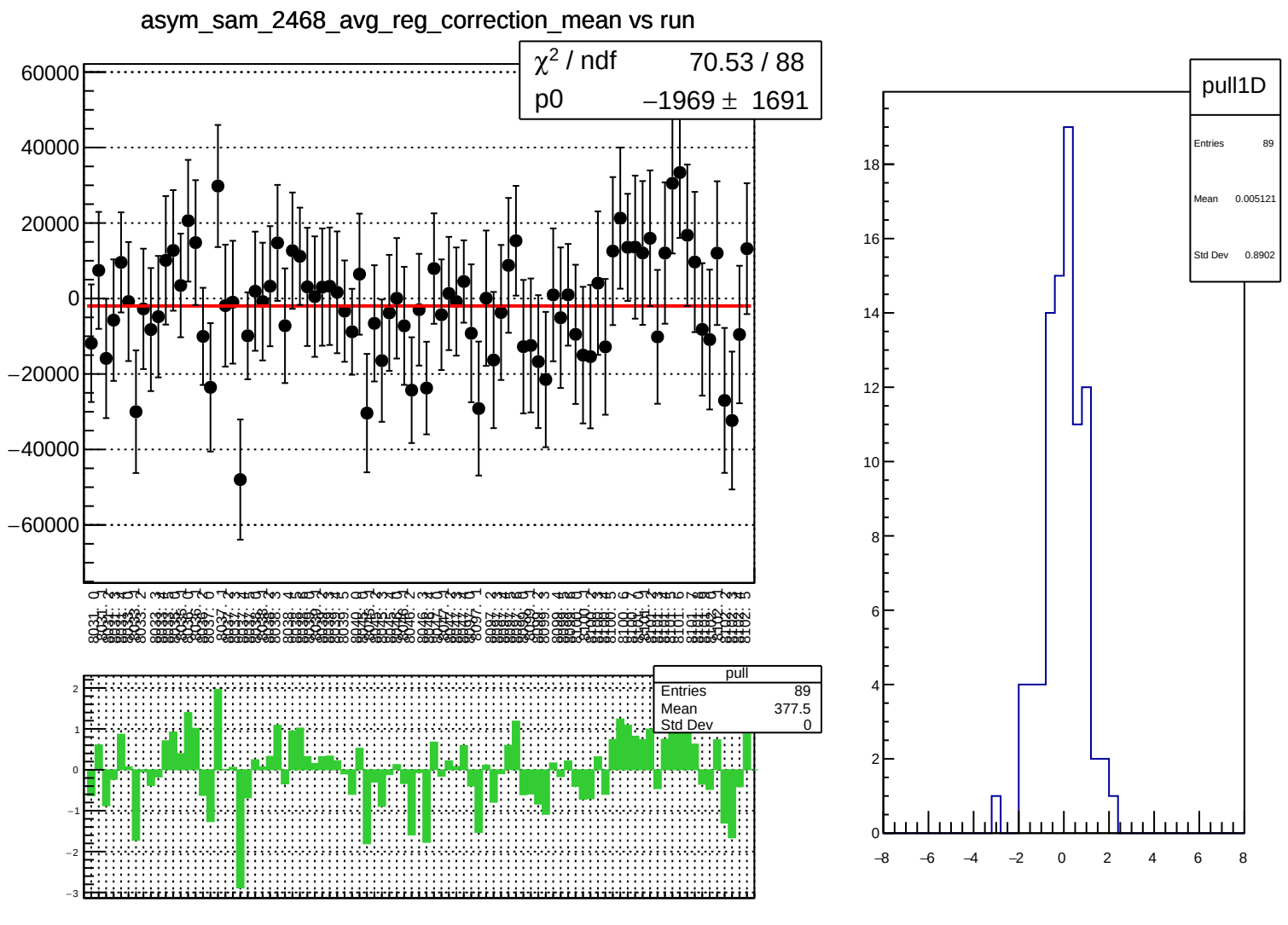

pull1D
Entries 89
Mean −0.1323
Std Dev 1.025

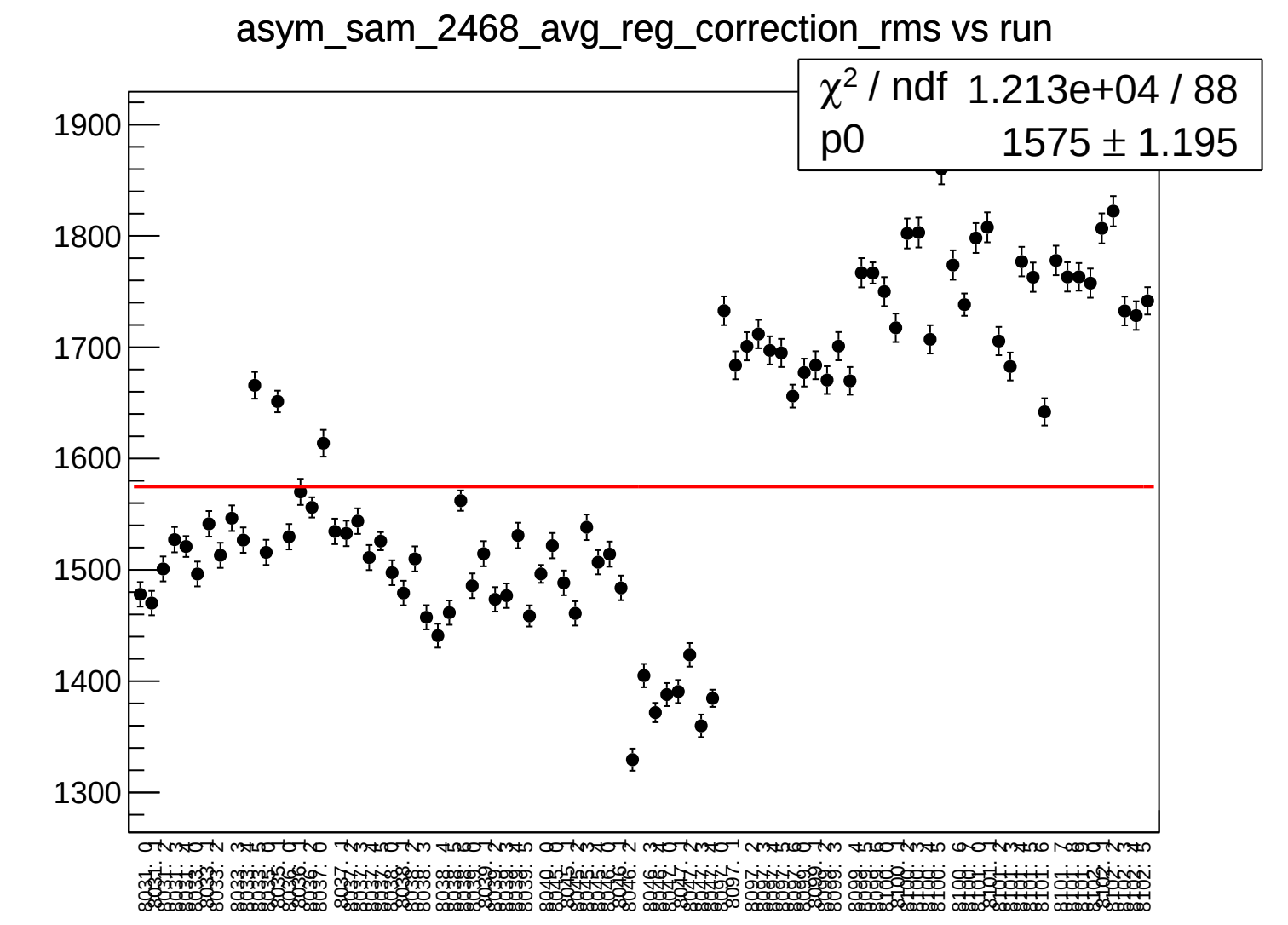

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.666e+05 / 88
p0 3.1e−11 ± 2.739e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

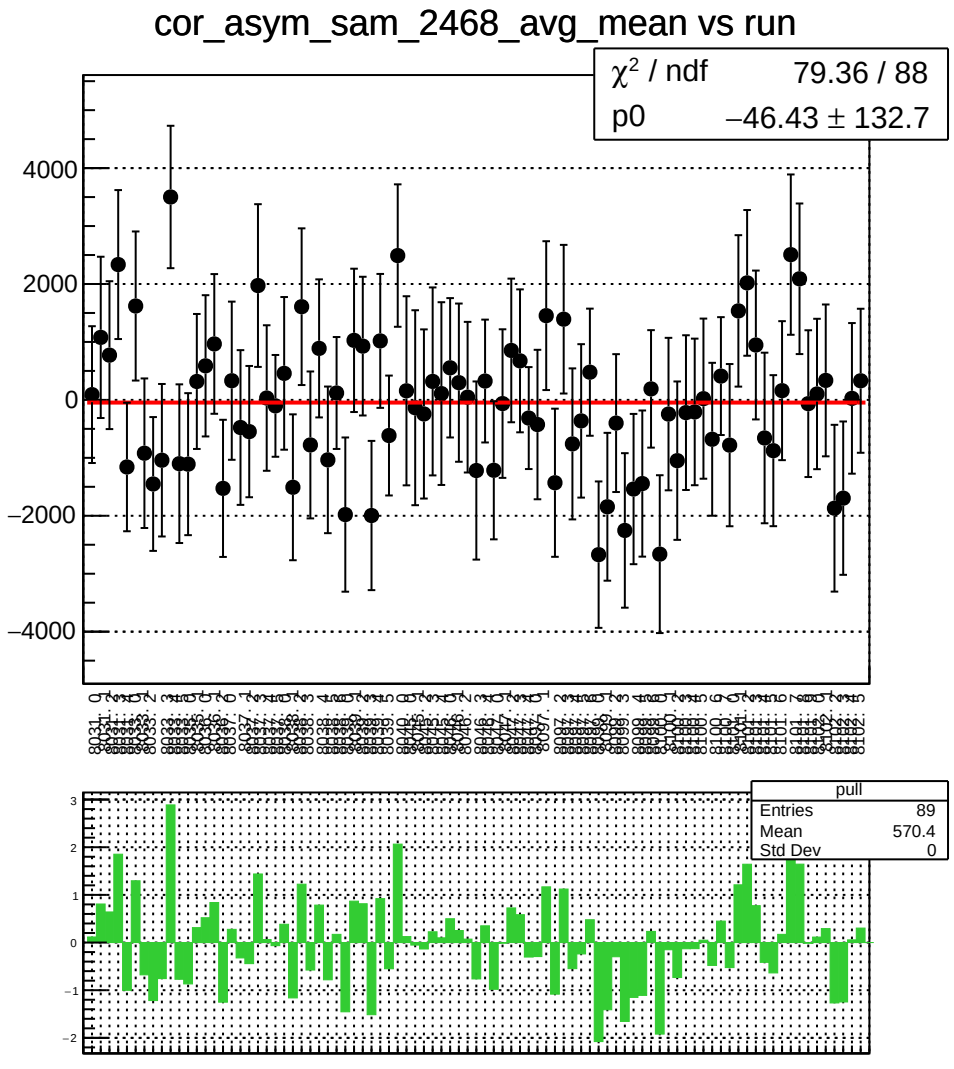

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 79.36 / 88
p0 −46.38 ± 132.7
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 570.4
Std Dev 0
3
2
1
0
−1
−2

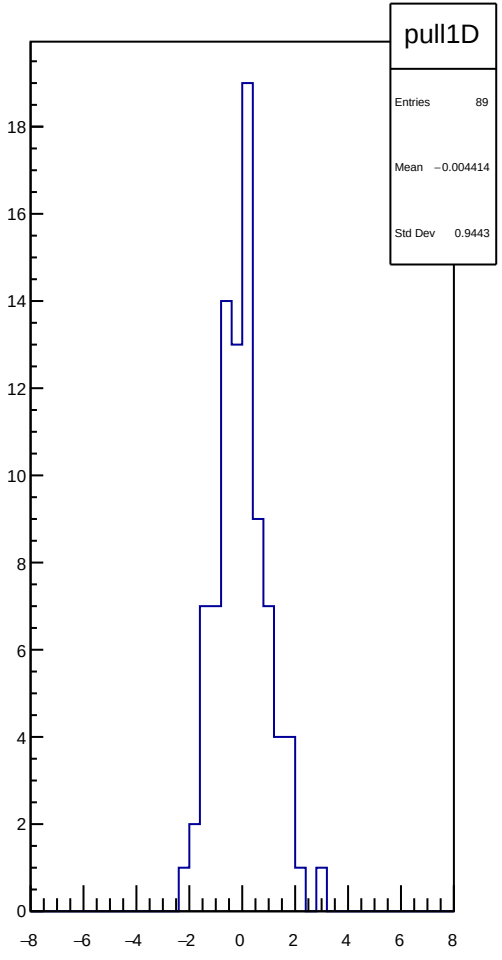

pull1D
Entries 89
Mean −0.004413
Std Dev 0.9443
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

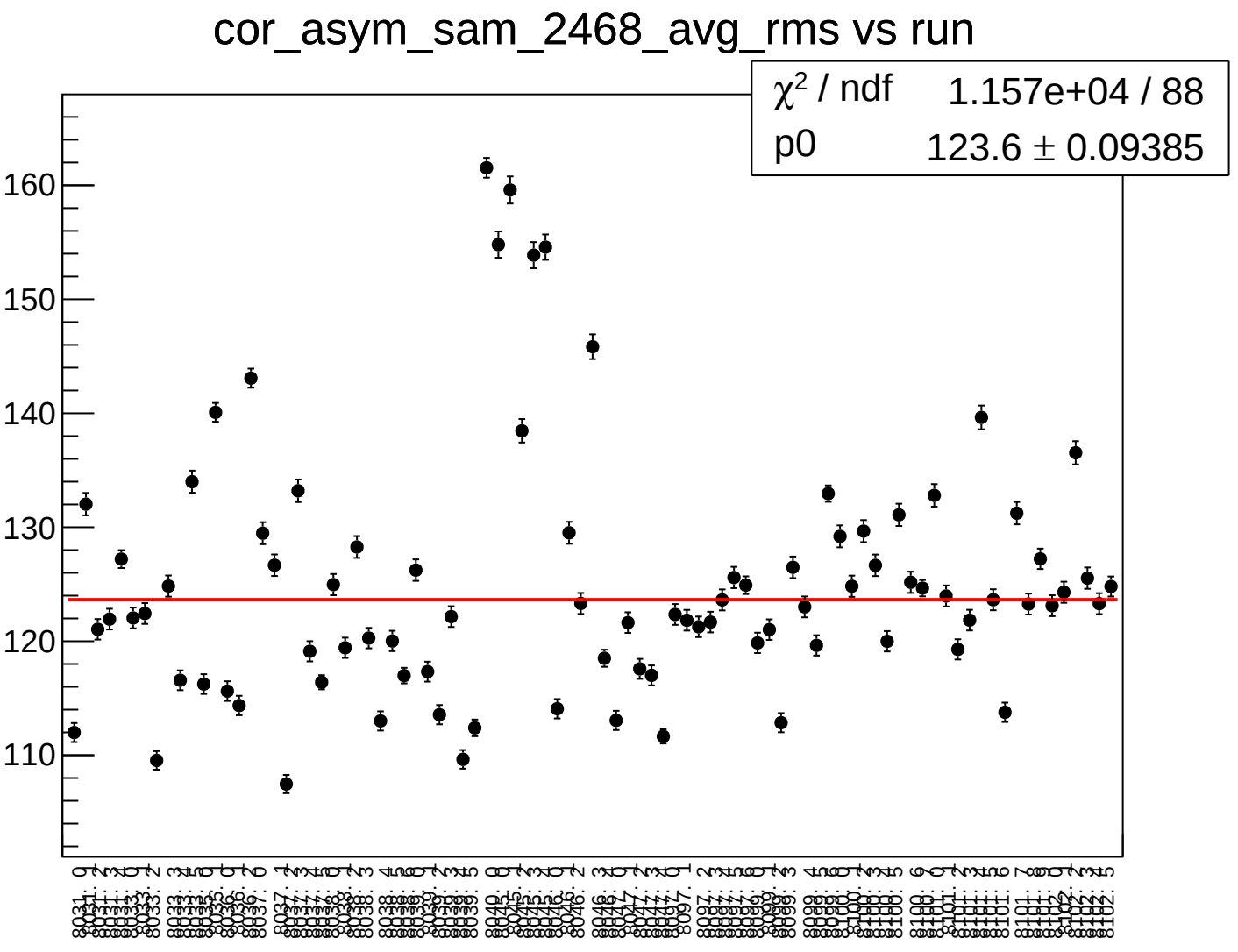

reg_asym_sam_2468_avg_rms vs run
$\chi^2$ / ndf 1.157e+04 / 88
p0 123.6 ± 0.09385
160
150
140
130
120
110

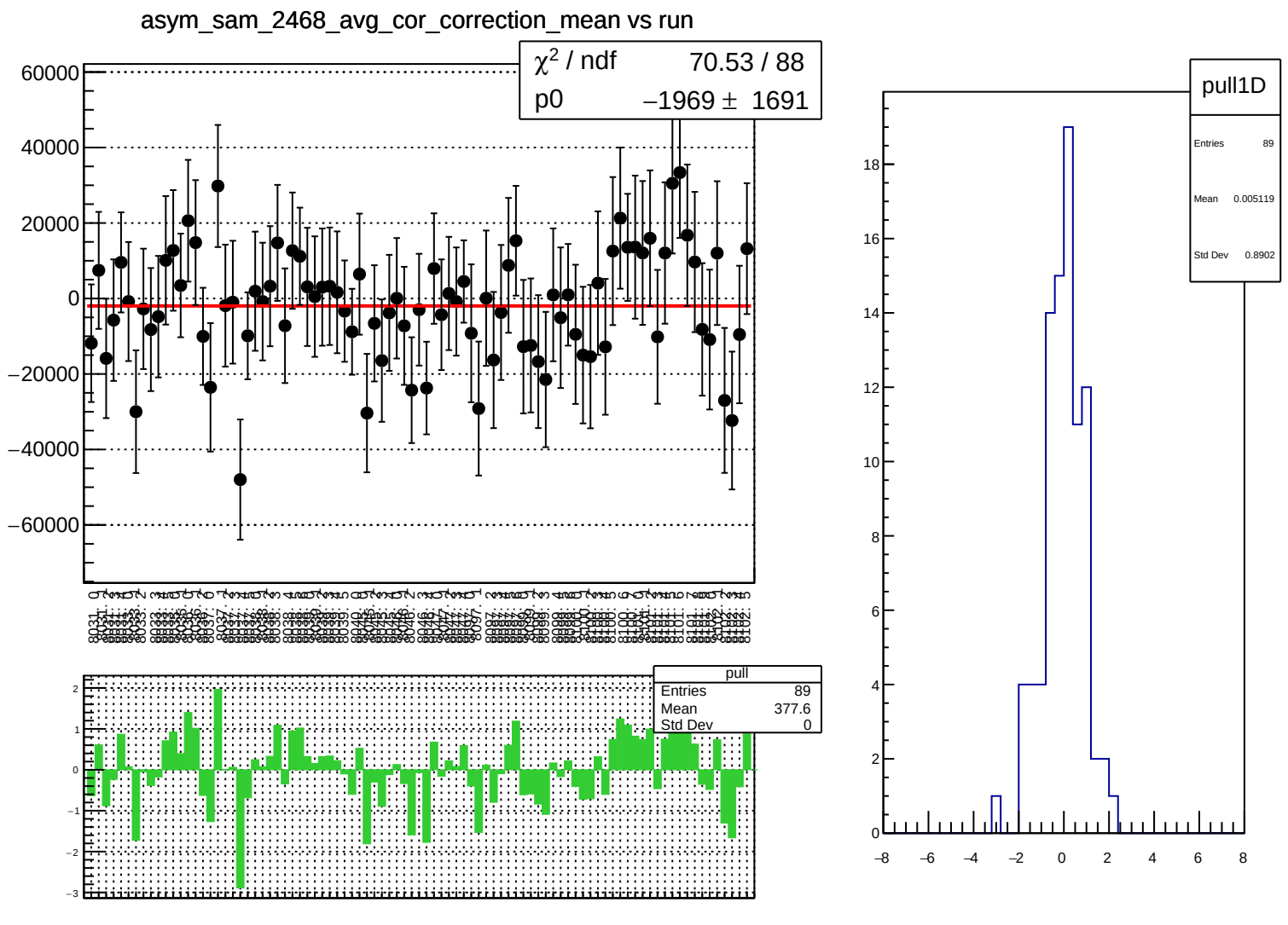

asym_sam_2468_avg_reg_correction_mean vs run
χ² / ndf 70.53 / 88
p0 −1969 ± 1691
pull
Entries 89
Mean 377.5
Std Dev 0
pull1D
Entries 89
Mean 0.005121
Std Dev 0.8902

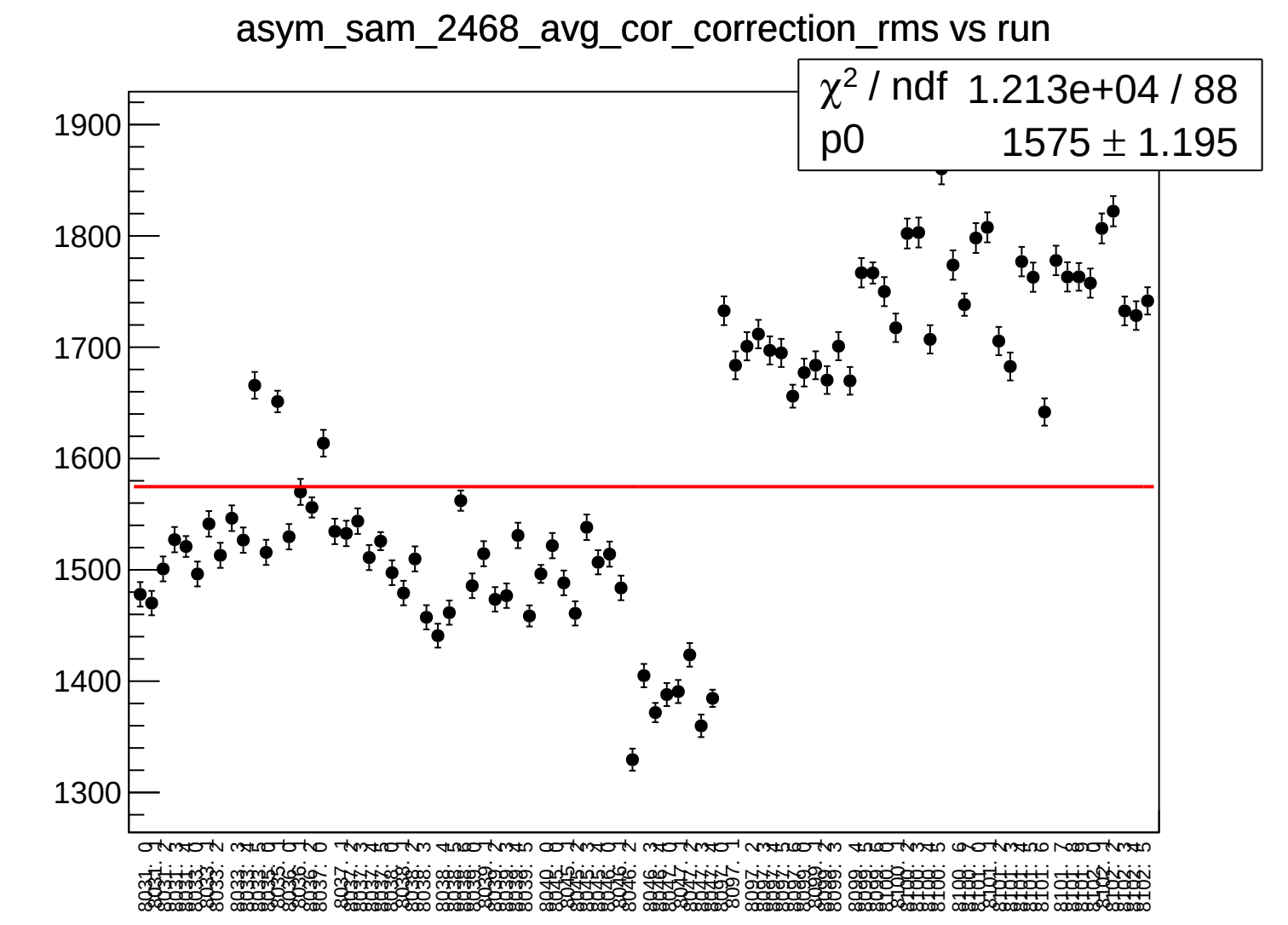

asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 1.213e+04 / 88
p0 1575 ± 1.195
1900
1800
1700
1600
1500
1400
1300

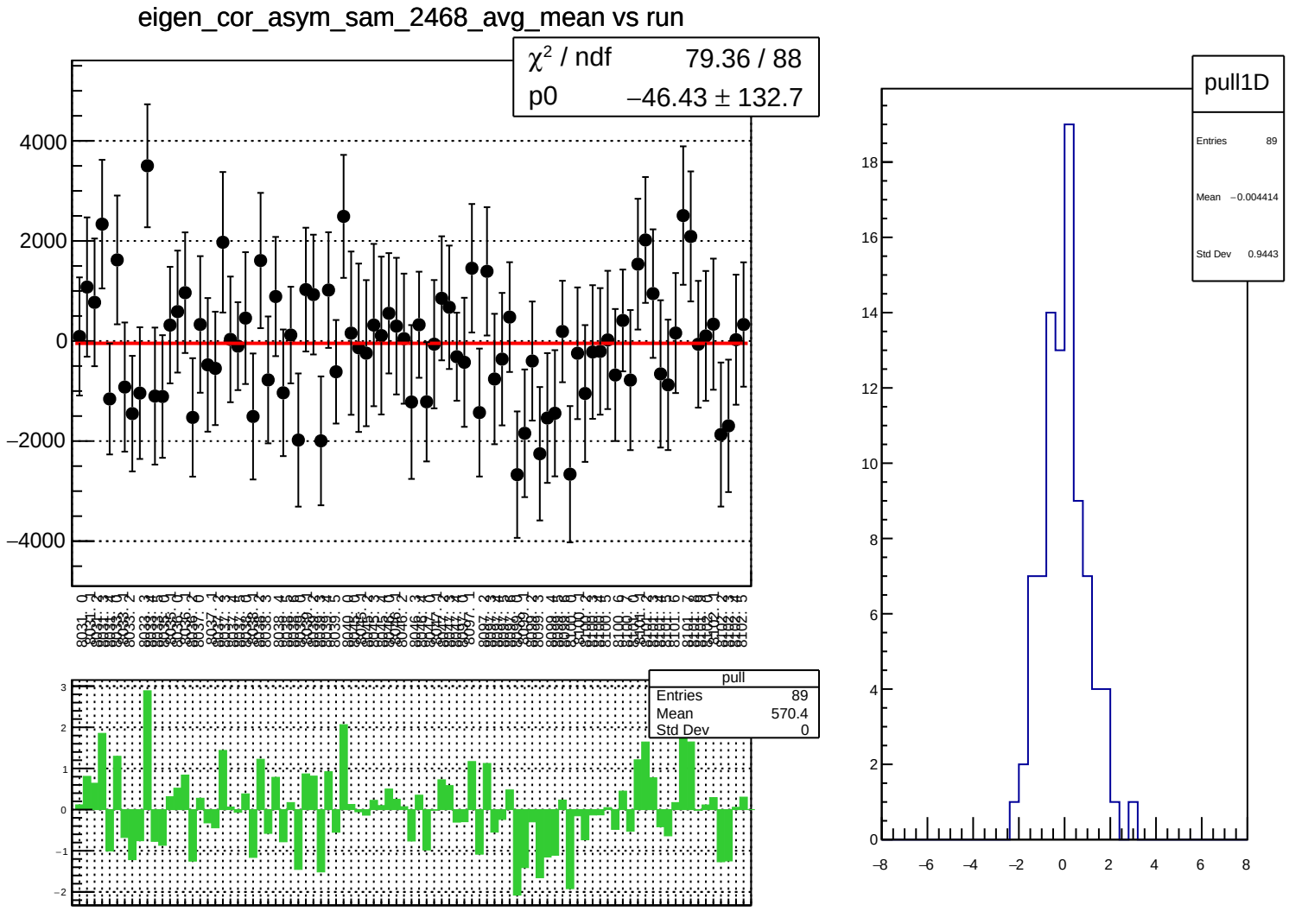

cor_asym_sam_2468_avg_mean vs run
χ² / ndf 79.36 / 88
p0 −46.43 ± 132.7
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 570.4
Std Dev 0
3
2
1
0
−1
−2

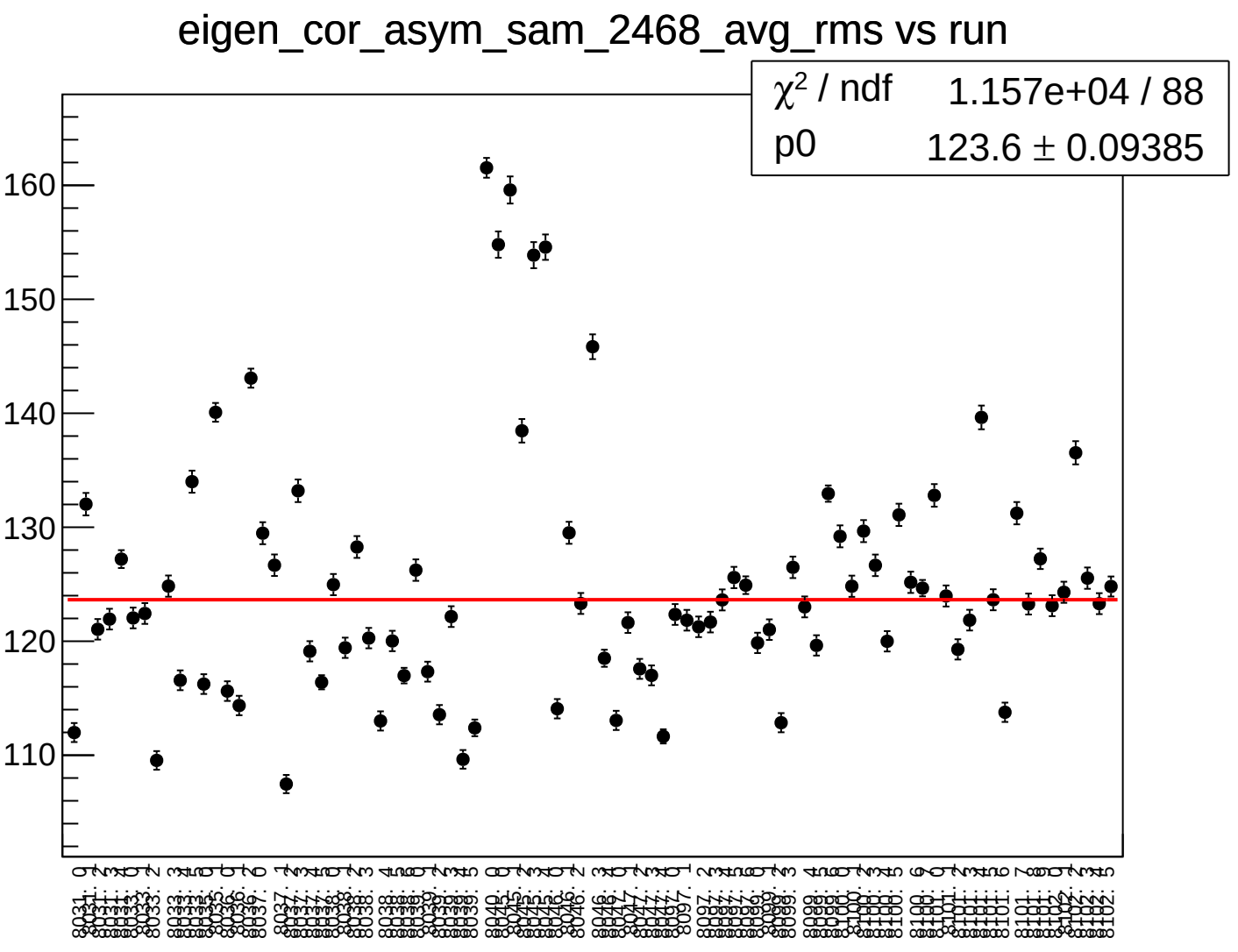

pull1D
Entries 89
Mean −0.004414
Std Dev 0.9443
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

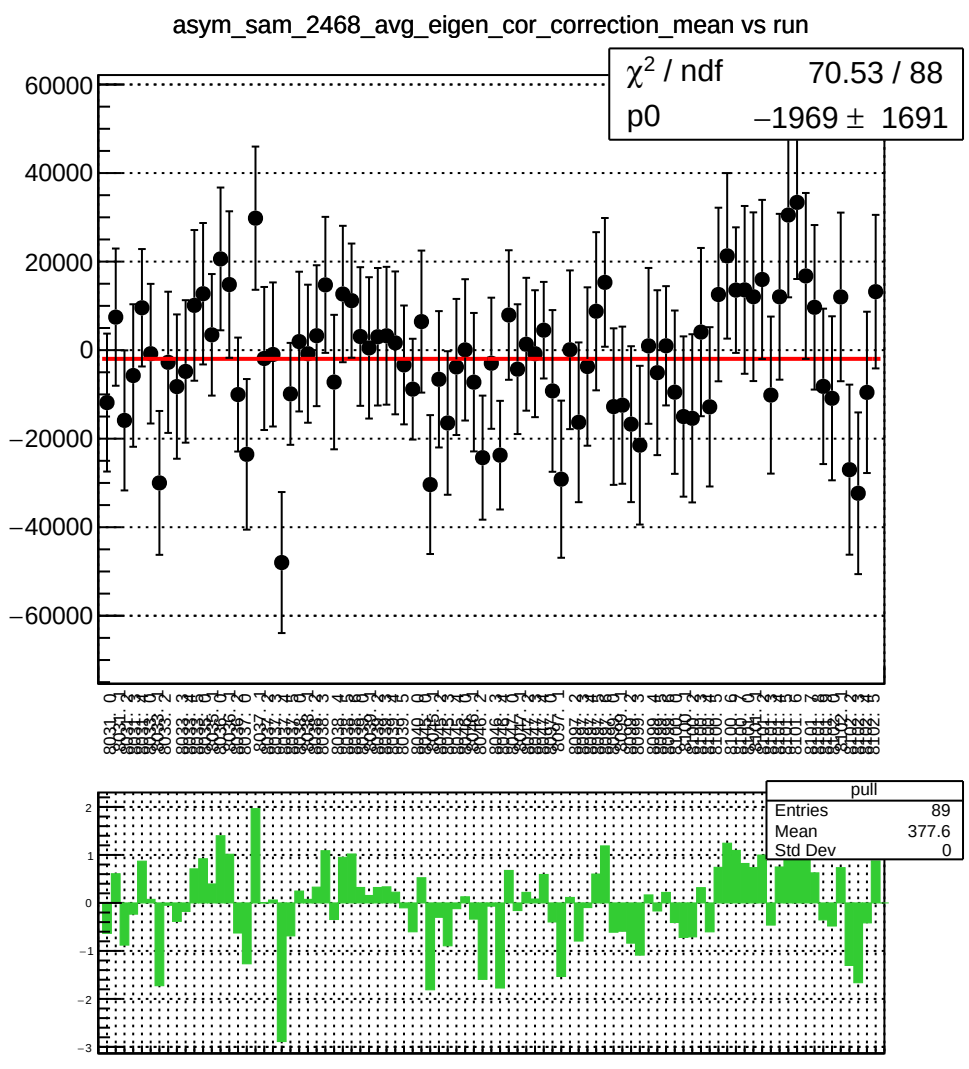

cor_asym_sam_2468_avg_rms vs run
$\chi^2$ / ndf 1.157e+04 / 88
p0 123.6 ± 0.09385
160
150
140
130
120
110

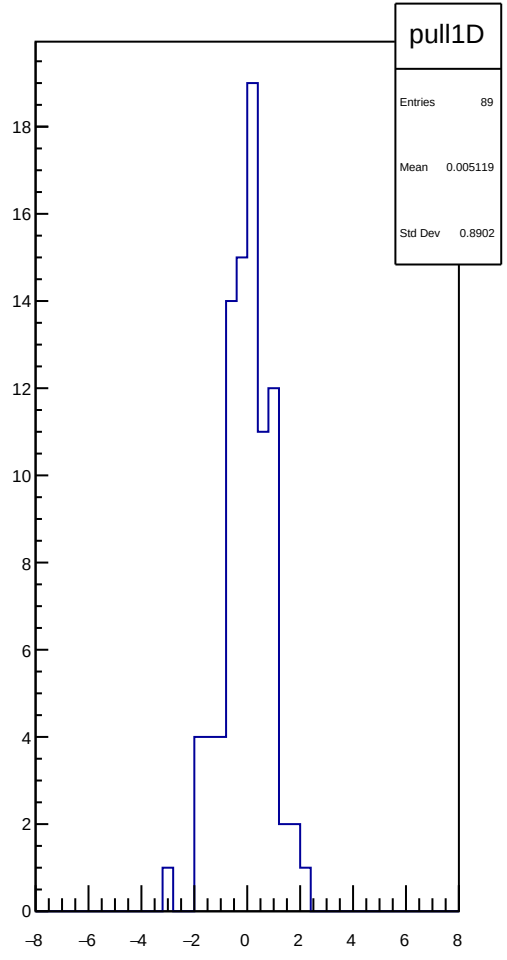

asym_sam_2468_avg_cor_correction_mean vs run
χ² / ndf 70.53 / 88
p0 −1969 ± 1691
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 377.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.005119
Std Dev 0.8902
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 1.213e+04 / 88
p0 1575 ± 1.195
1900
1800
1700
1600
1500
1400
1300


eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 79.36 / 88
p0 −46.43 ± 132.7
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 570.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.004414
Std Dev 0.9443
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_2468_avg_rms vs run
χ² / ndf 1.157e+04 / 88
p0 123.6 ± 0.09385
160
150
140
130
120
110


asym_sam_2468_avg_eigen_cor_correction_mean vs run
χ² / ndf 70.53 / 88
p0 −1969 ± 1691
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 377.6
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 89
Mean 0.005119
Std Dev 0.8902
18
16
14
12
10
8
6
4
2
0
−8
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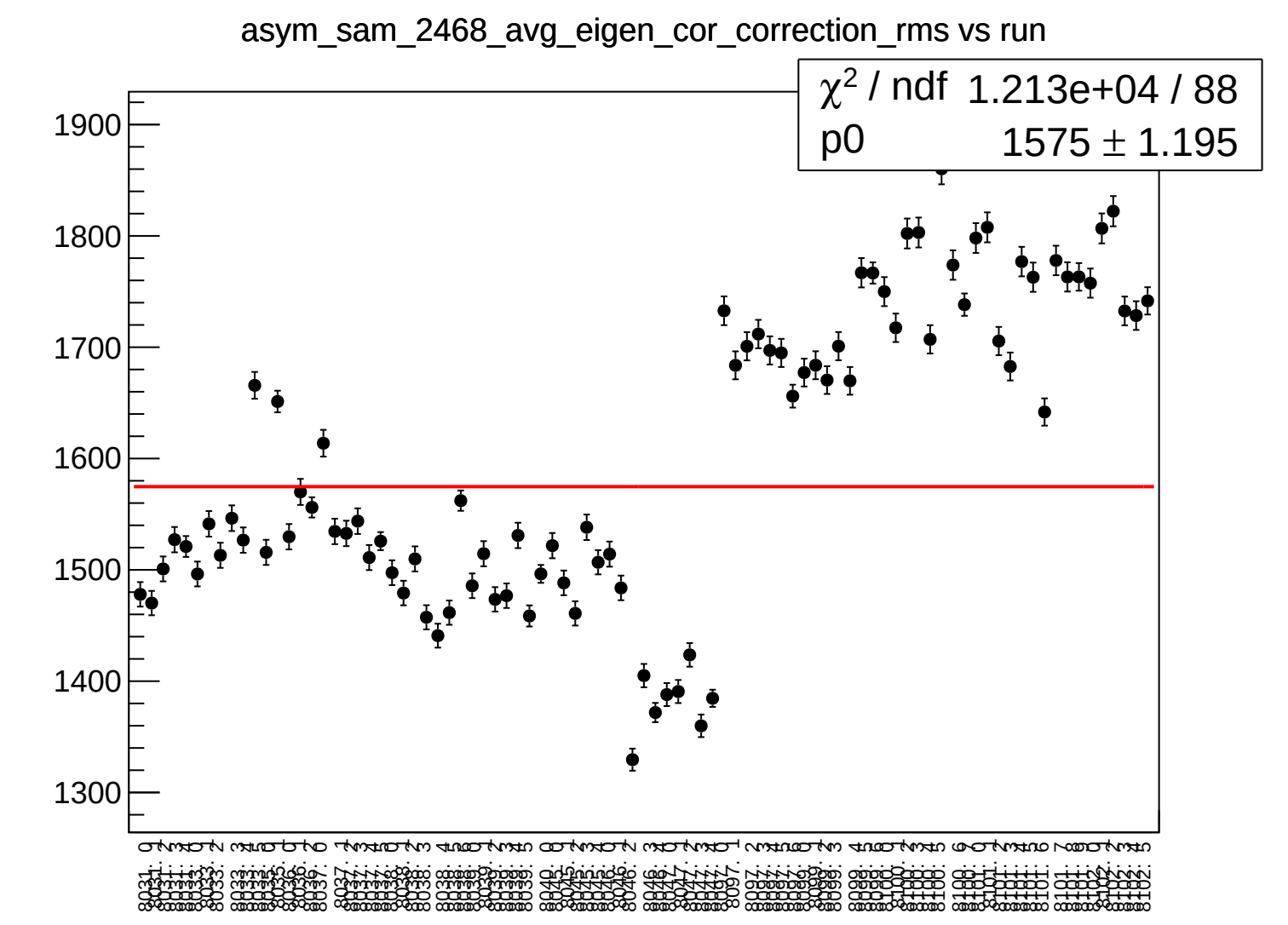
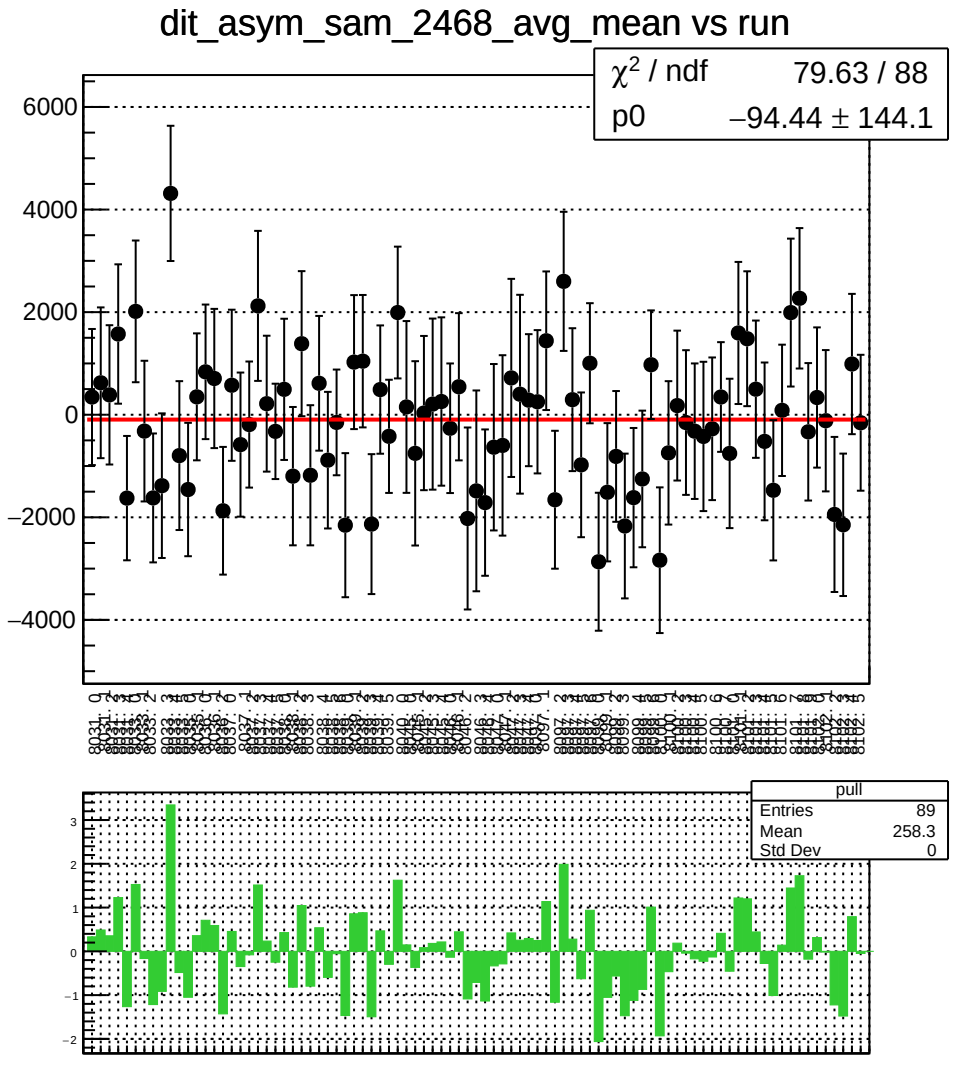
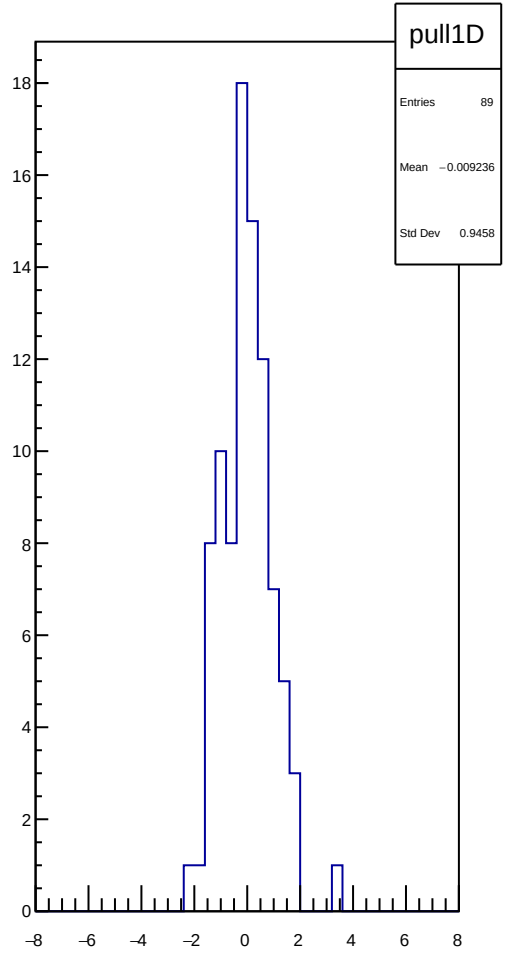
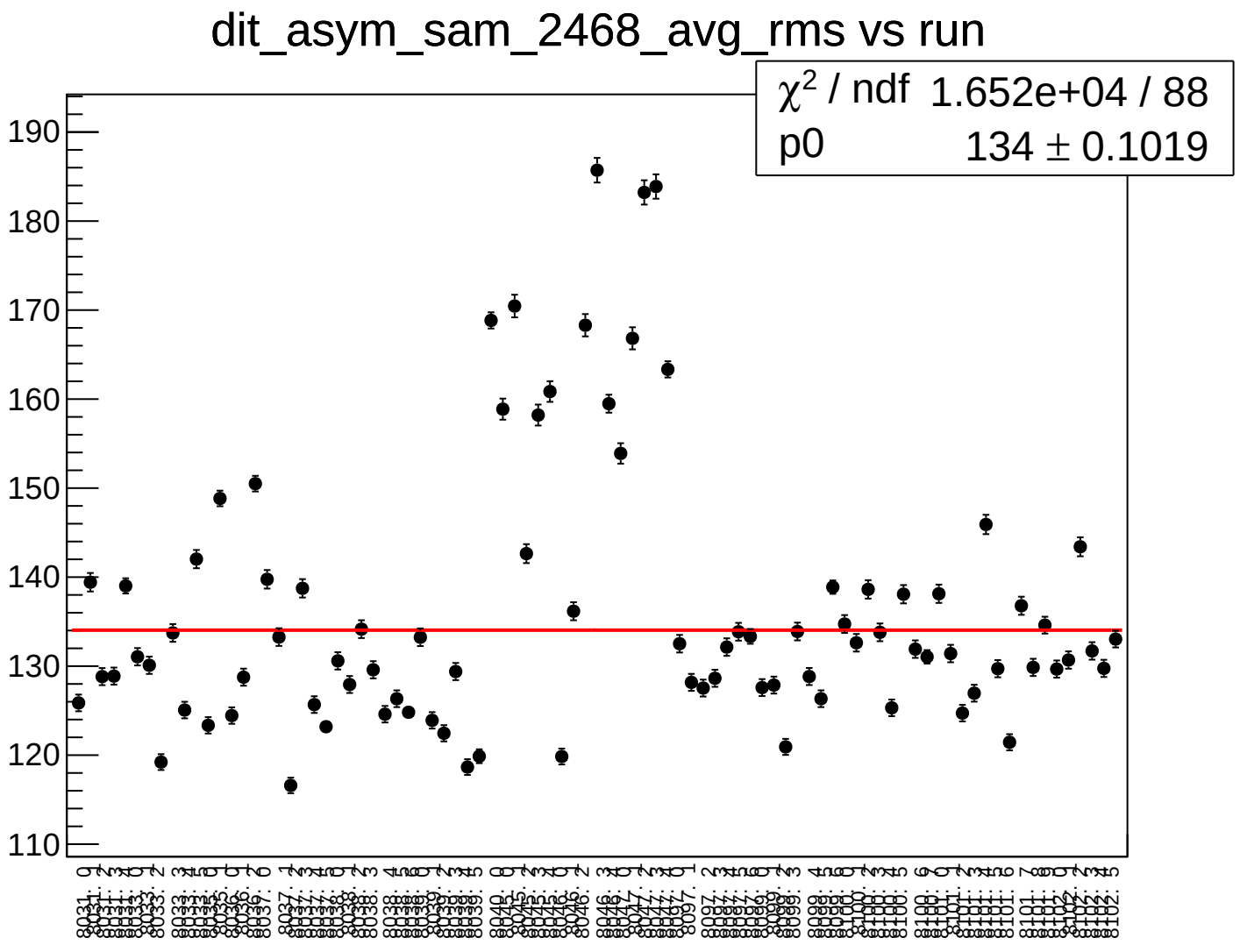
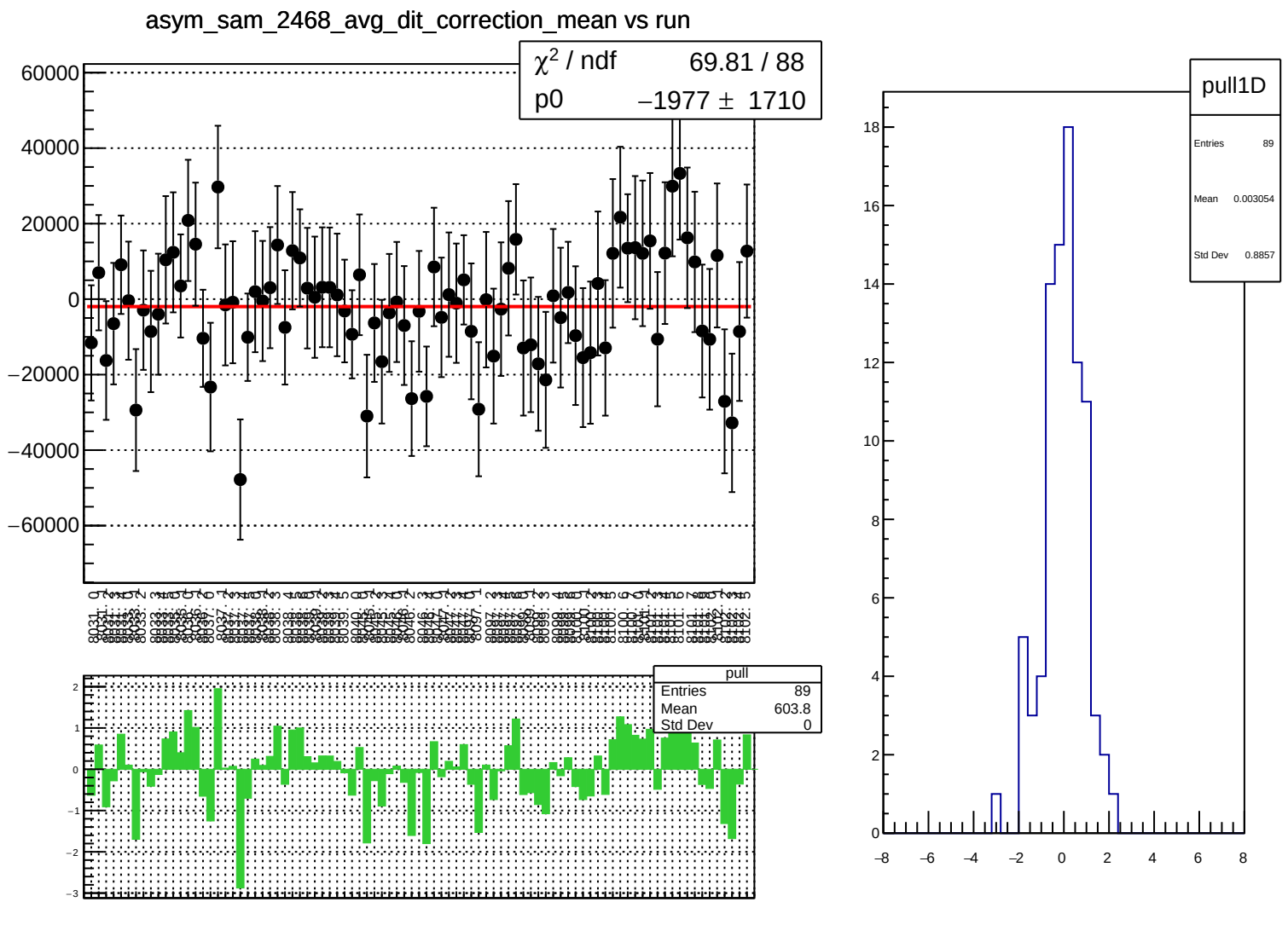
2
4
6
8

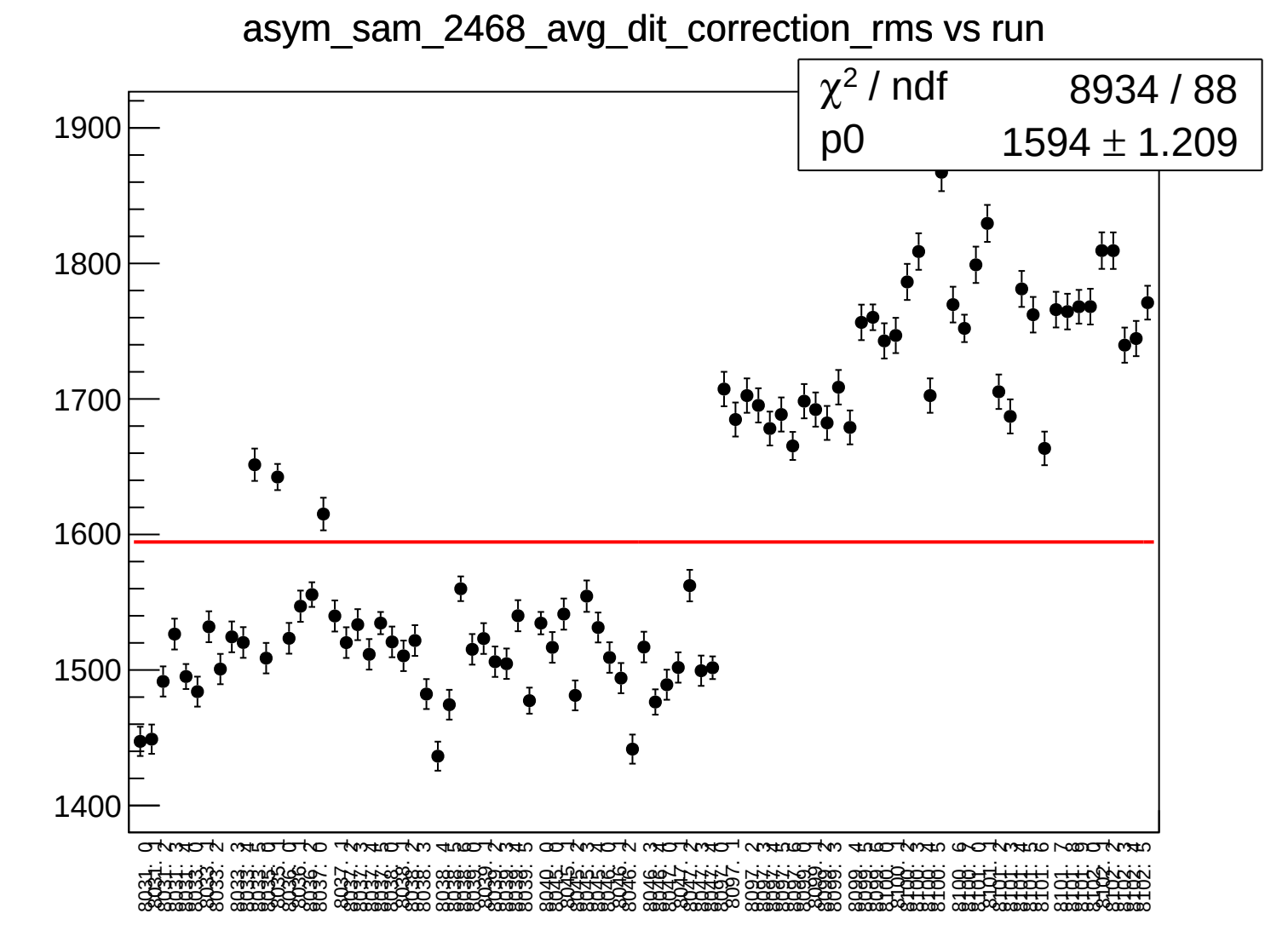

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.213e+04 / 88
p0 1575 ± 1.195
1900
1800
1700
1600
1500
1400
1300

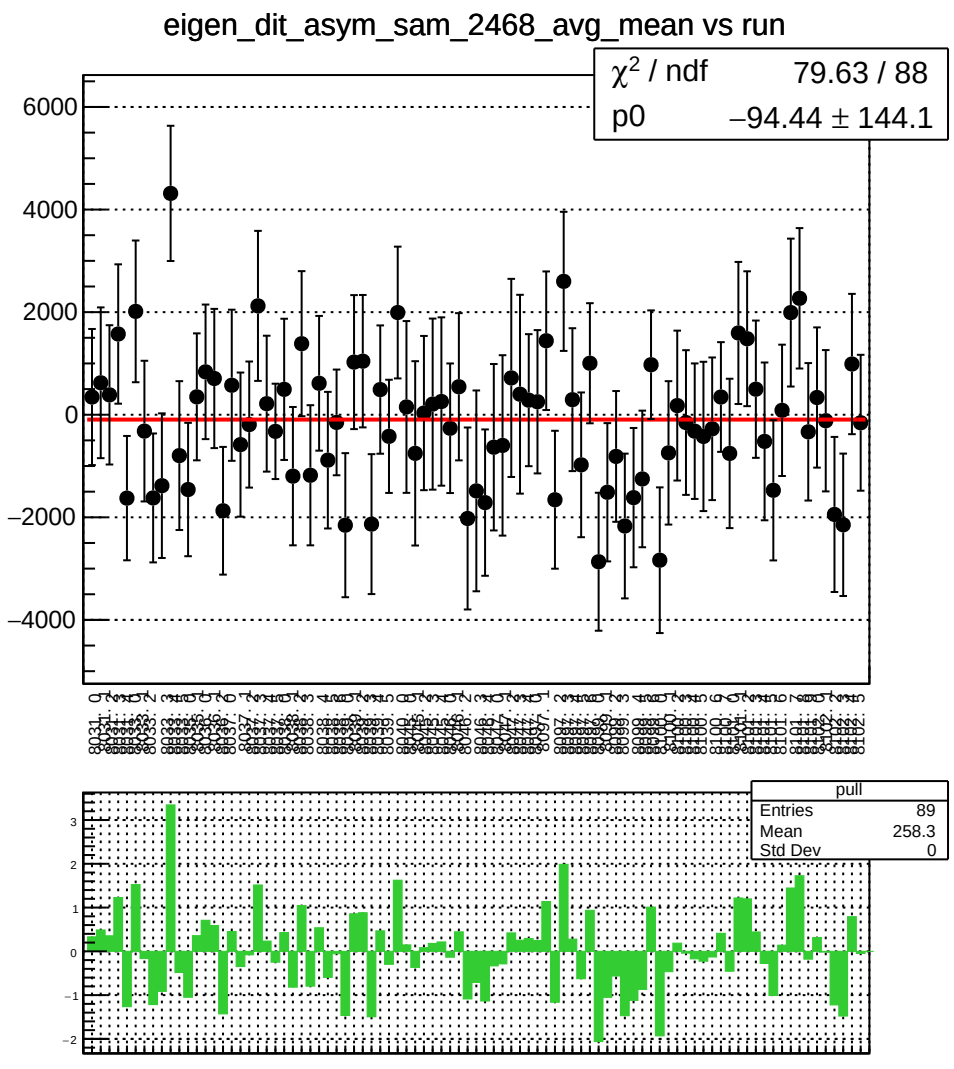

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 79.63 / 88
p0 −94.44 ± 144.1
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 258.3
Std Dev 0
3
2
1
0
−1
−2

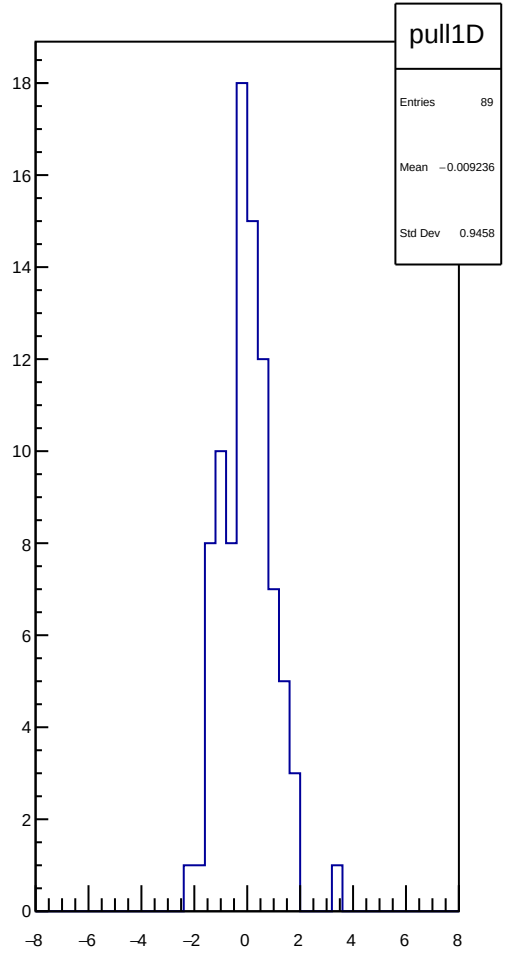

pull1D
Entries 89
Mean −0.009236
Std Dev 0.9458
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

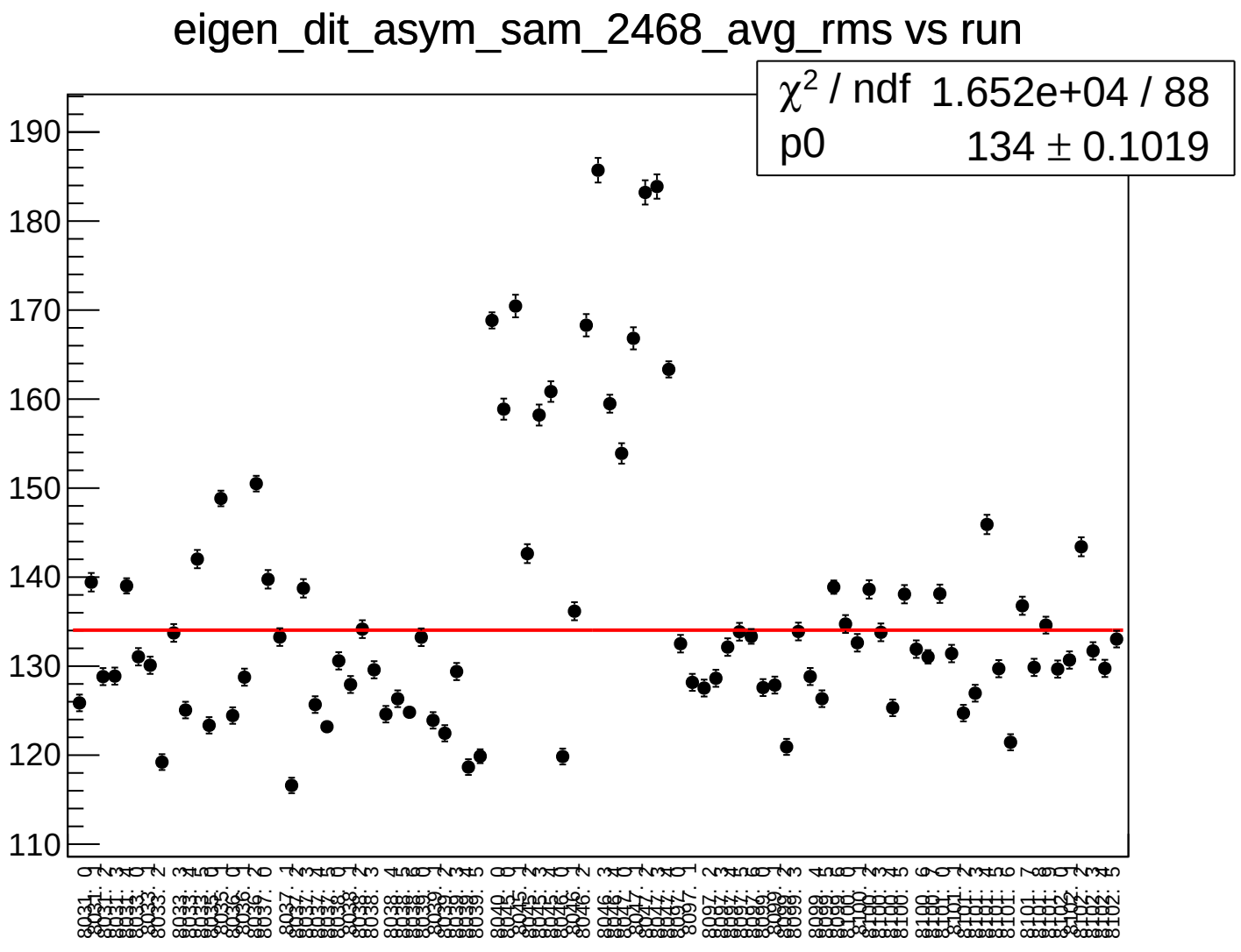

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 1.652e+04 / 88
p0 134 ± 0.1019
190
180
170
160
150
140
130
120
110

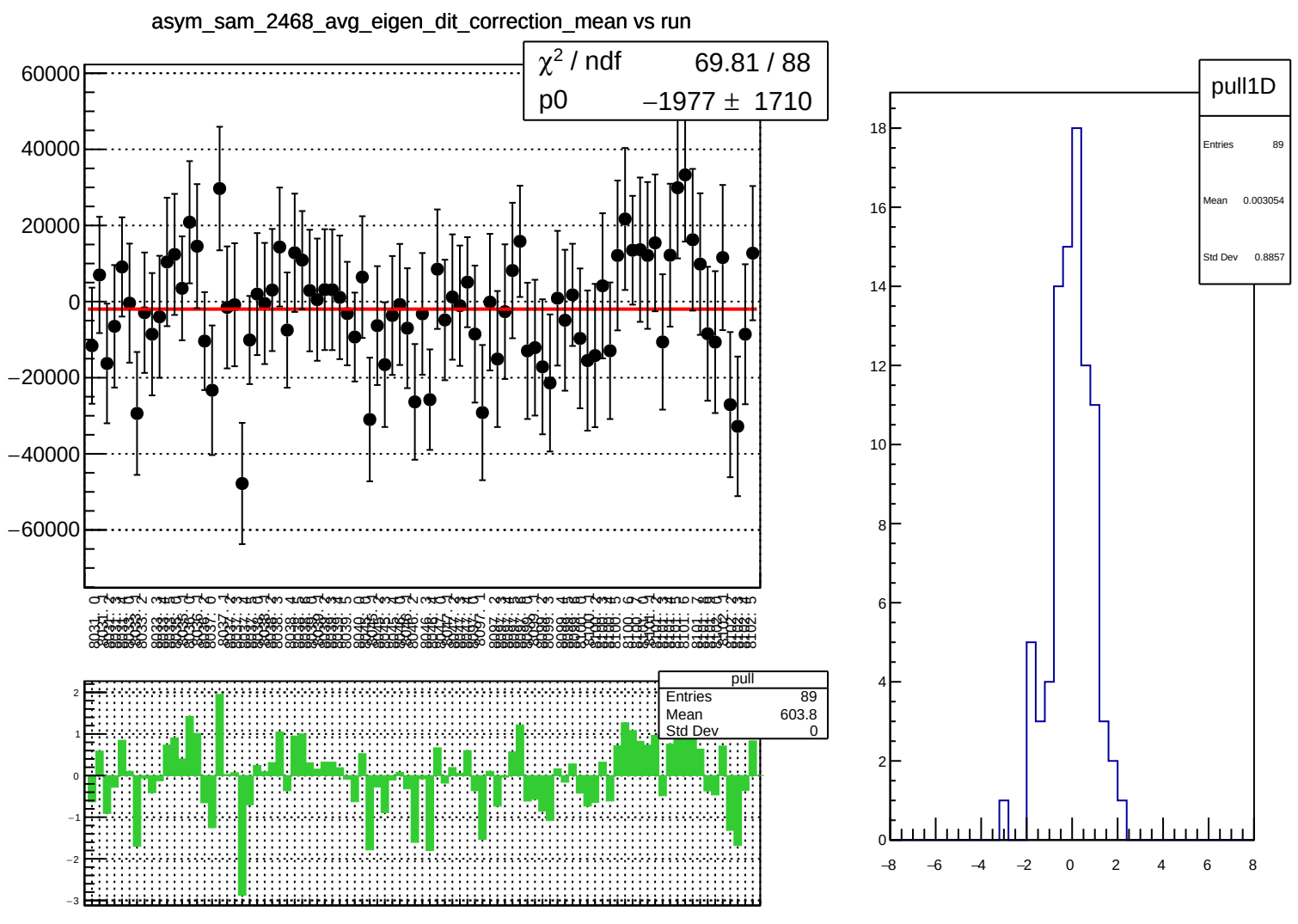

asym_sam_2468_avg_dit_correction_mean vs run
χ² / ndf 69.81 / 88
p0 −1977 ± 1710
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 603.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.003054
Std Dev 0.8857
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

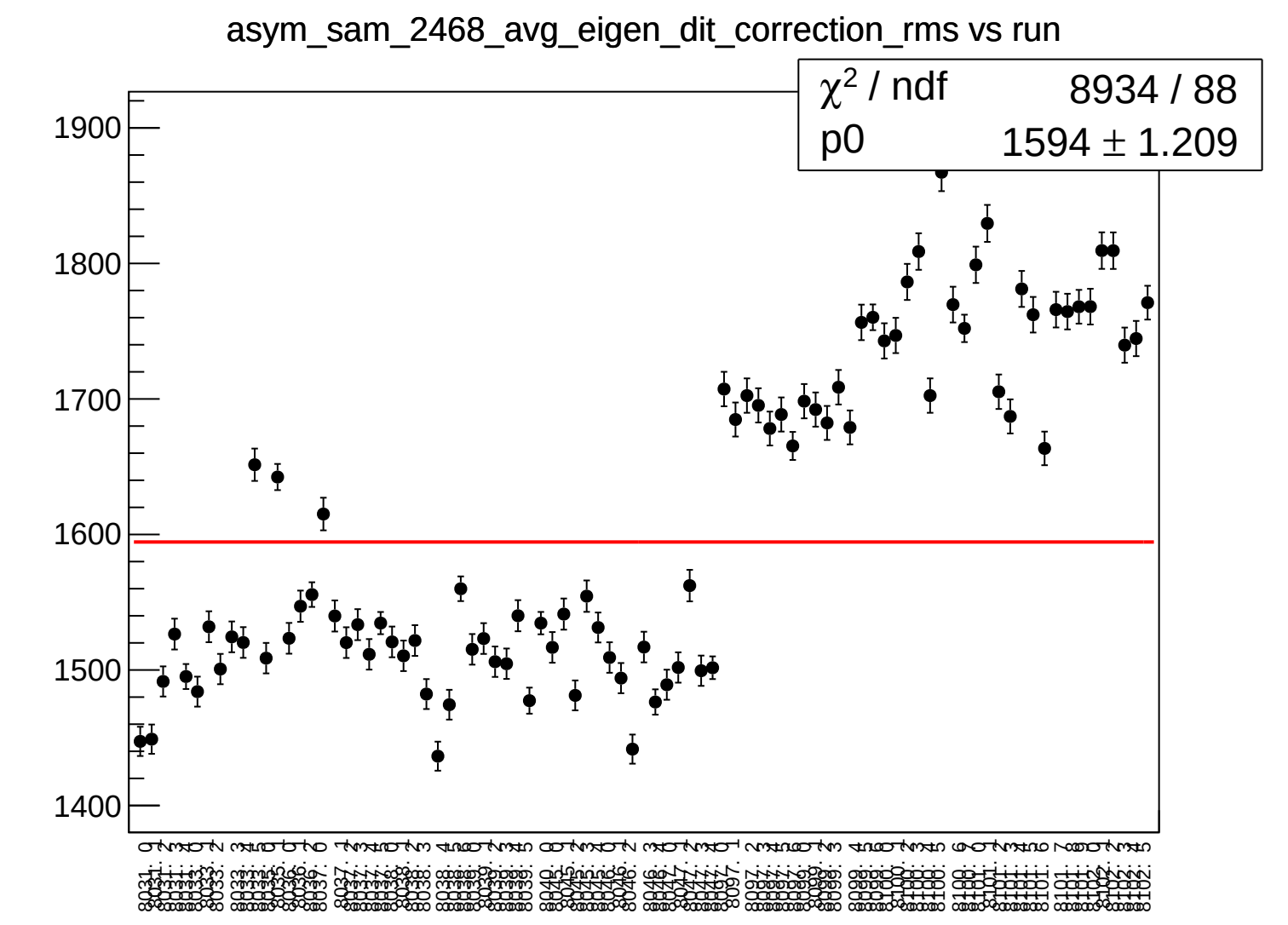

asym_sam_2468_avg_dit_correction_rms vs run
χ² / ndf 8934 / 88
p0 1594 ± 1.209
1900
1800
1700
1600
1500
1400

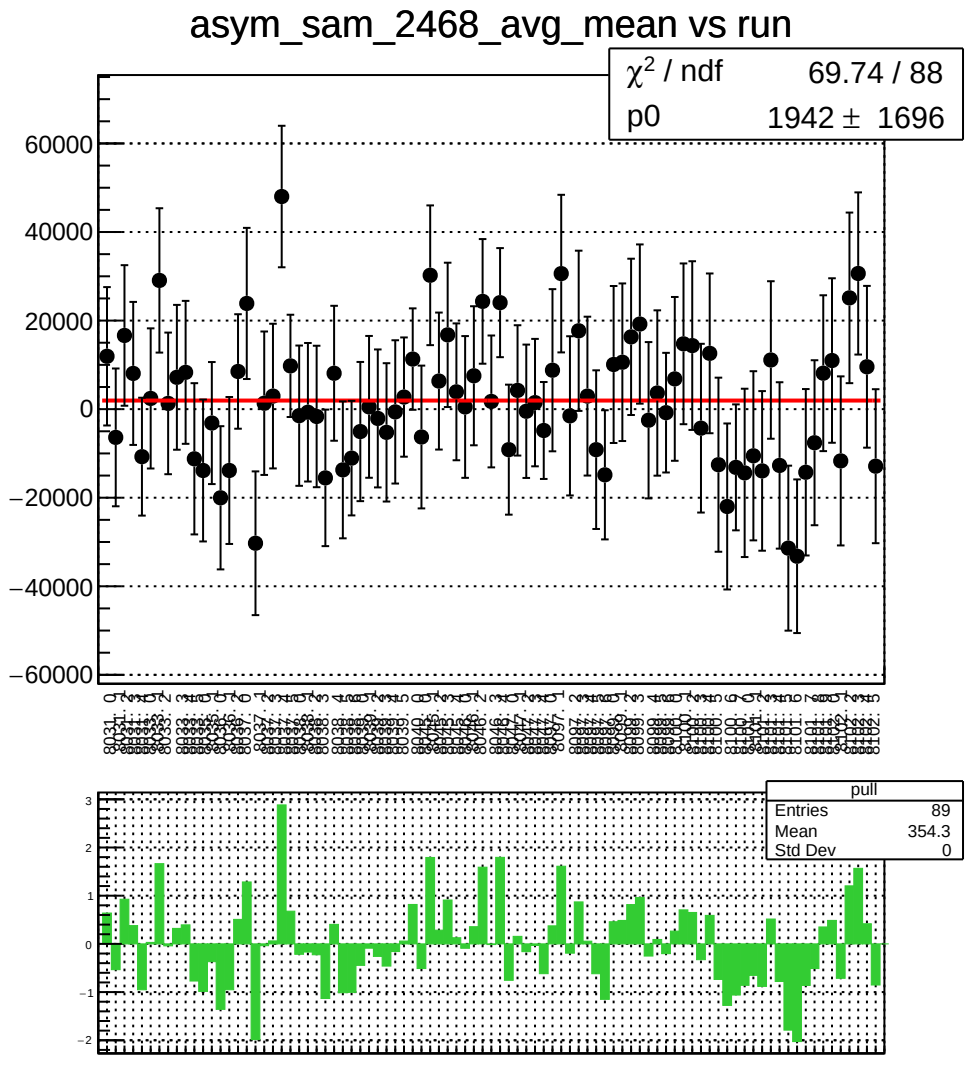

eigen_dit_asym_sam_2468_avg_mean vs run
χ² / ndf 79.63 / 88
p0 −94.44 ± 144.1
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 258.3
Std Dev 0
3
2
1
0
−1
−2

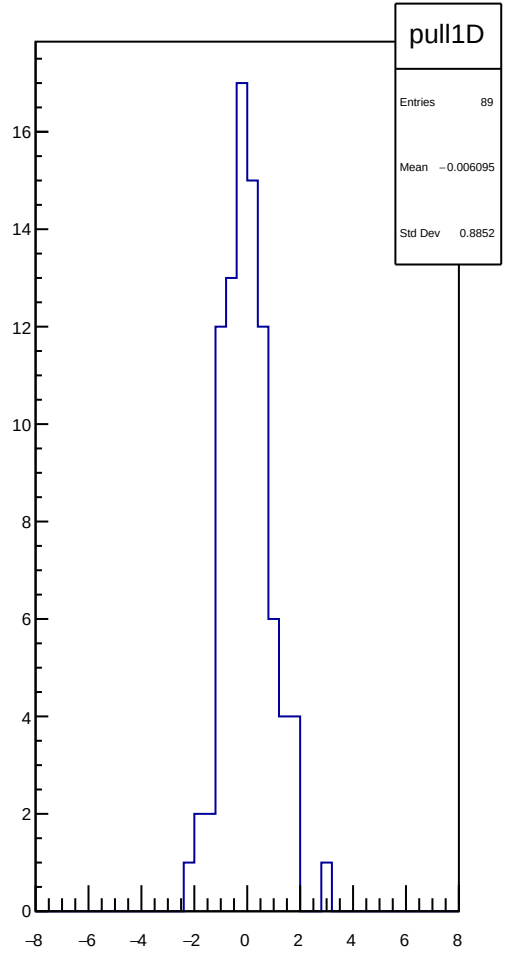

pull1D
Entries 89
Mean −0.009236
Std Dev 0.9458
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

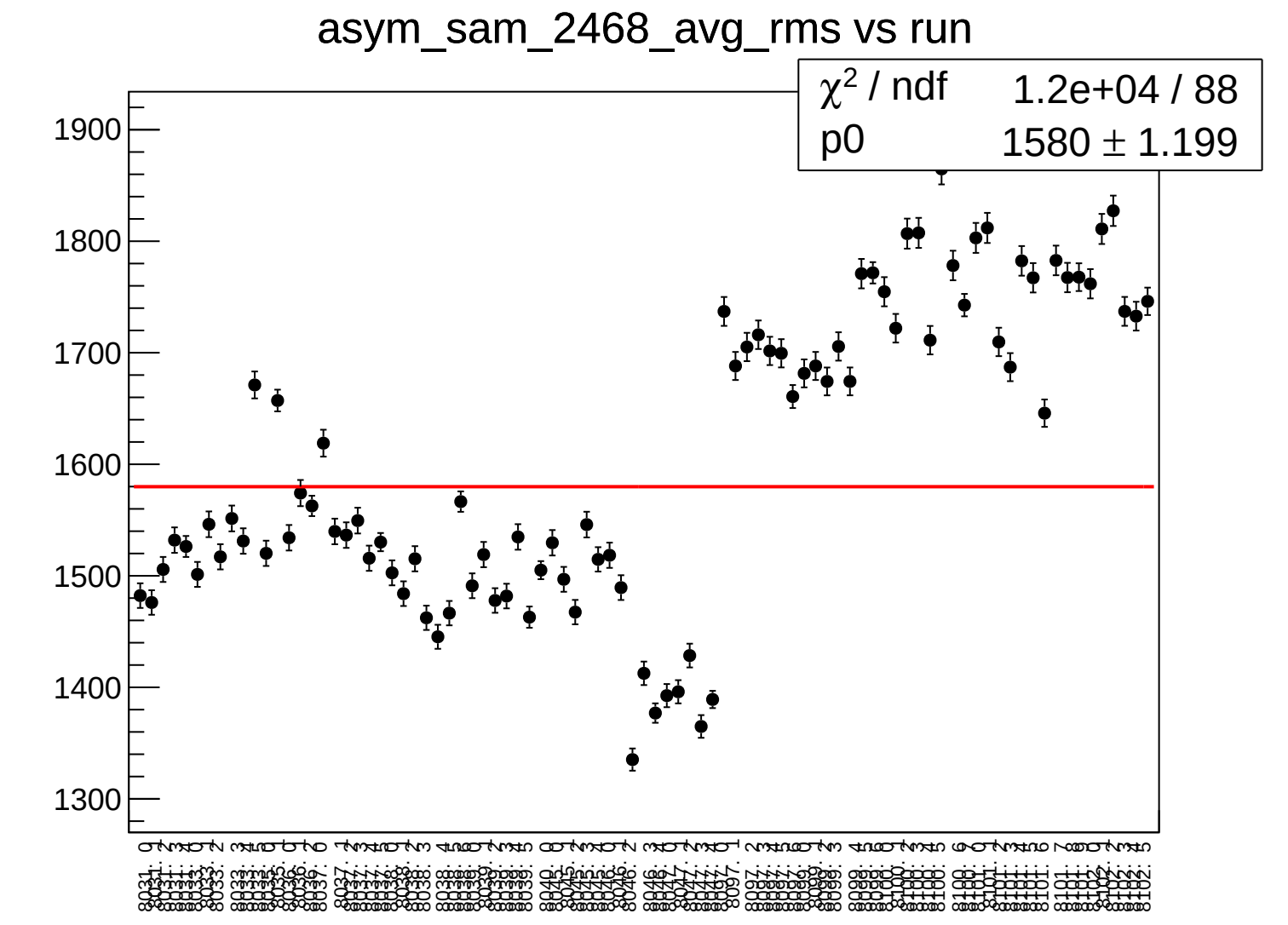

eigen_dit_asym_sam_2468_avg_rms vs run
χ² / ndf 1.652e+04 / 88
p0 134 ± 0.1019
190
180
170
160
150
140
130
120
110

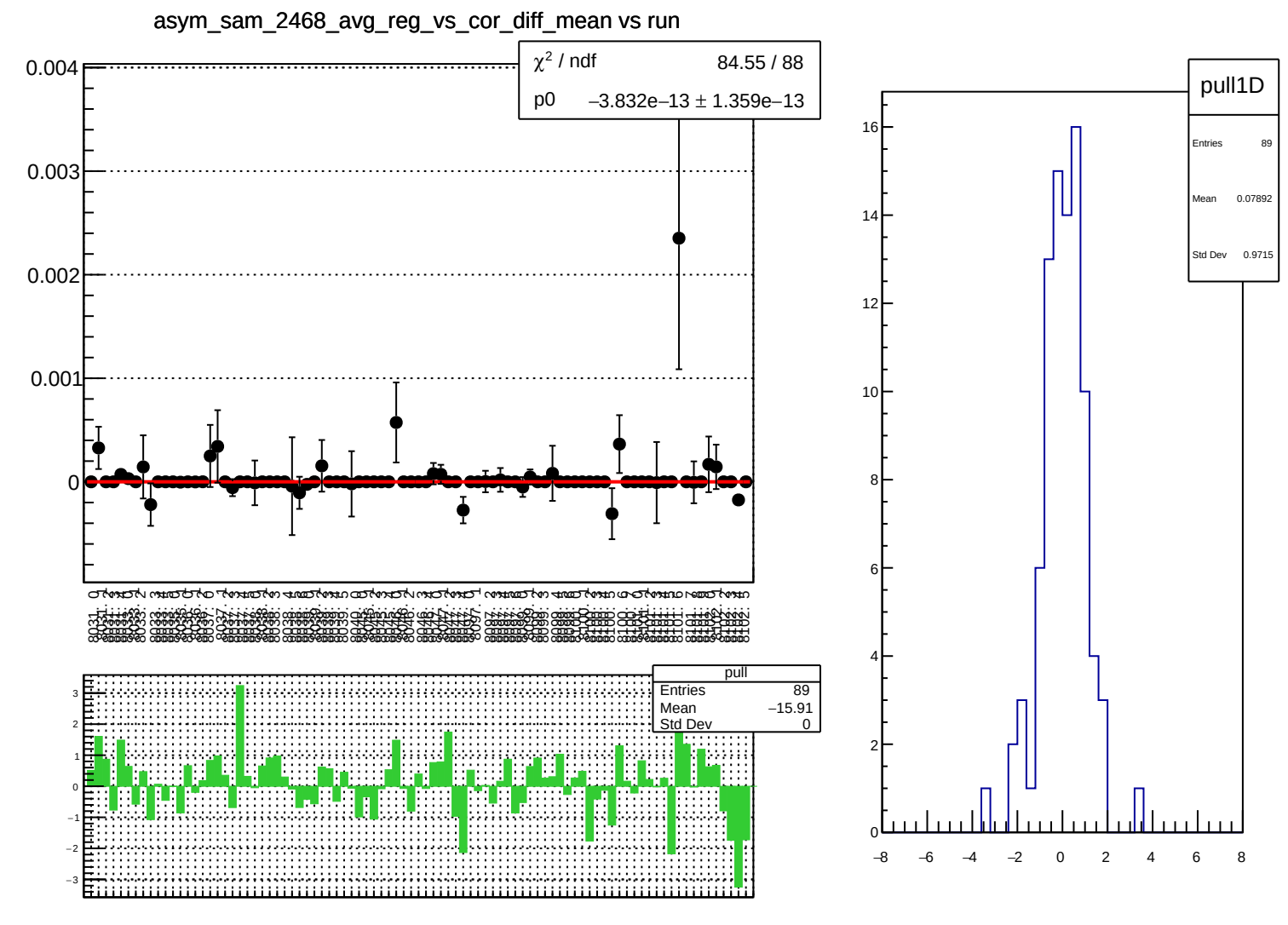

asym_sam_2468_avg_eigen_dit_correction_mean vs run
χ² / ndf 69.81 / 88
p0 −1977 ± 1710
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 603.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.003054
Std Dev 0.8857
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

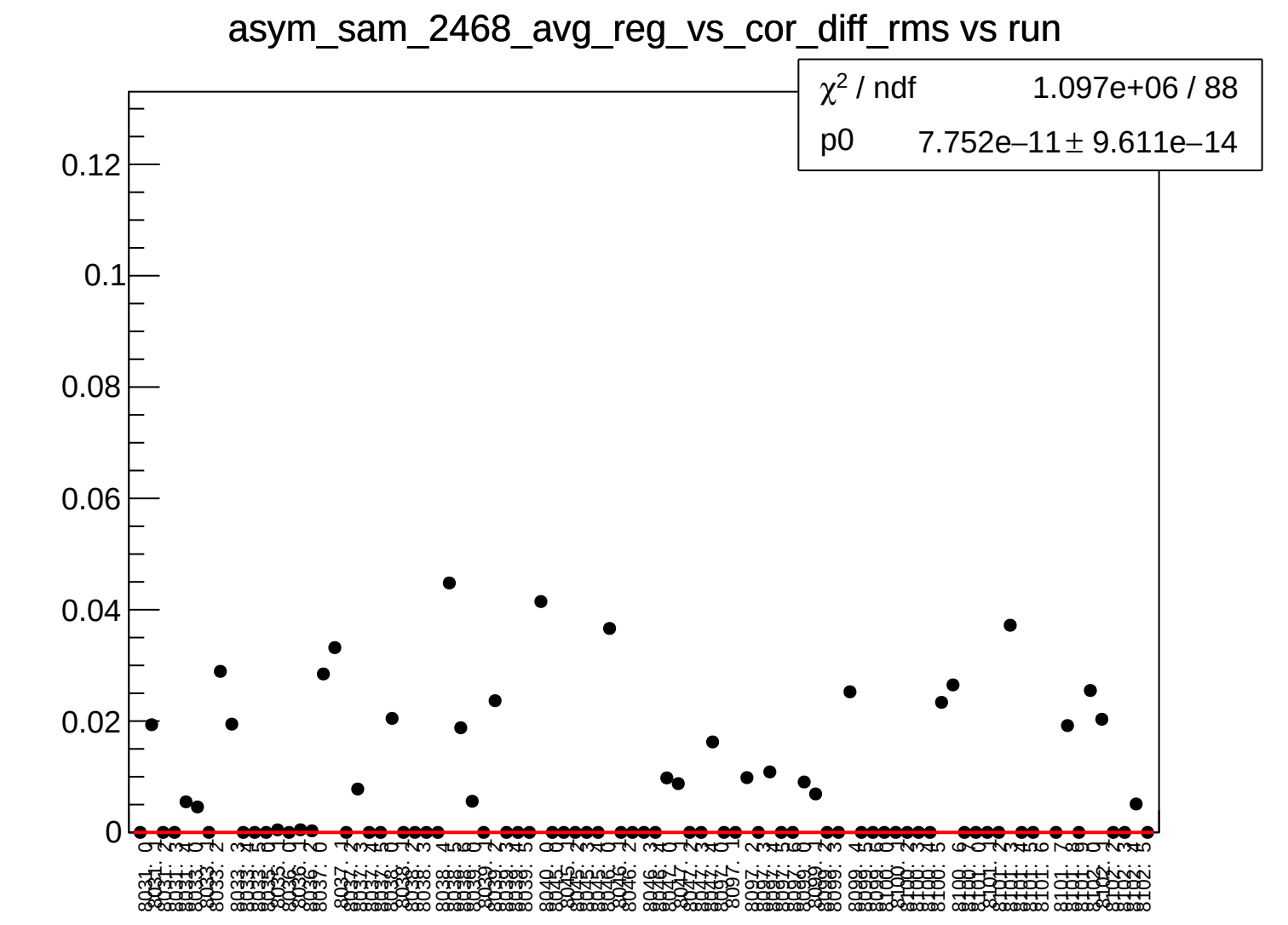

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ² / ndf 8934 / 88
p0 1594 ± 1.209
1900
1800
1700
1600
1500
1400

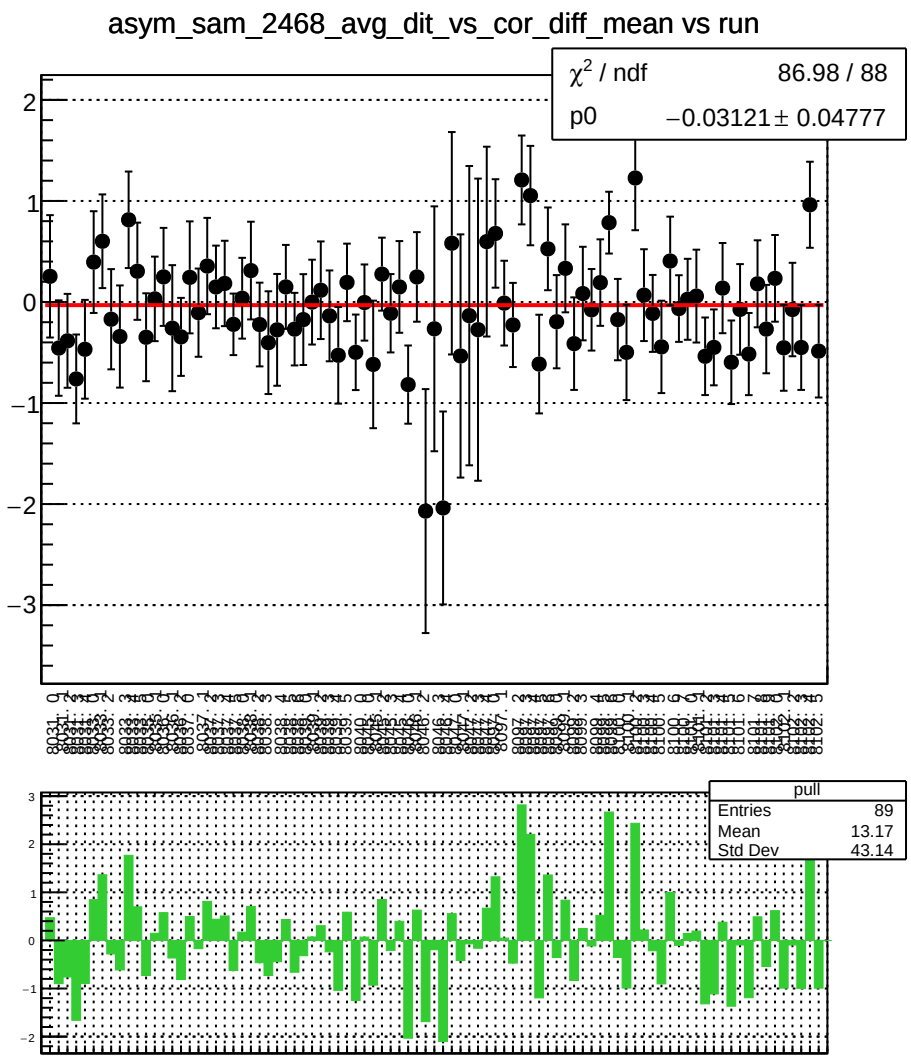

asym_sam_2468_avg_mean vs run
χ² / ndf 69.74 / 88
p0 1942 ± 1696
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 354.3
Std Dev 0
3
2
1
0
−1
−2

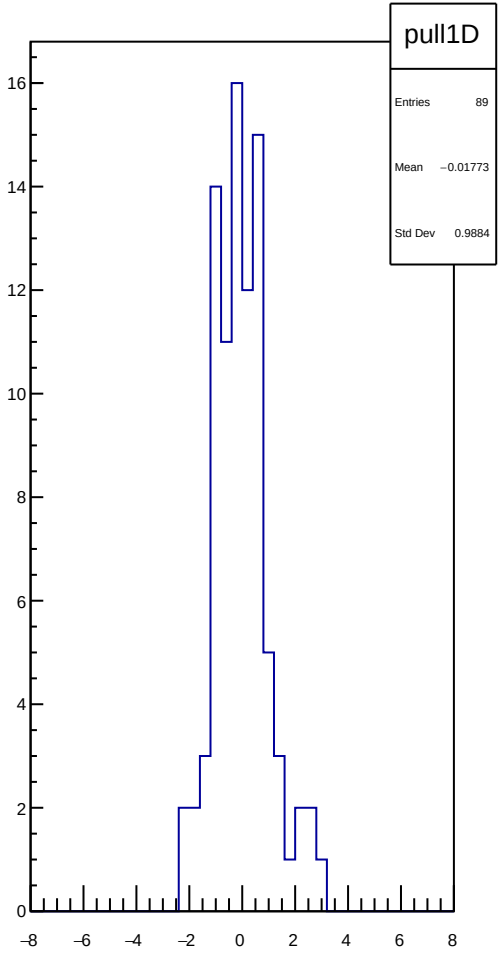

pull1D
Entries 89
Mean −0.006095
Std Dev 0.8852
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

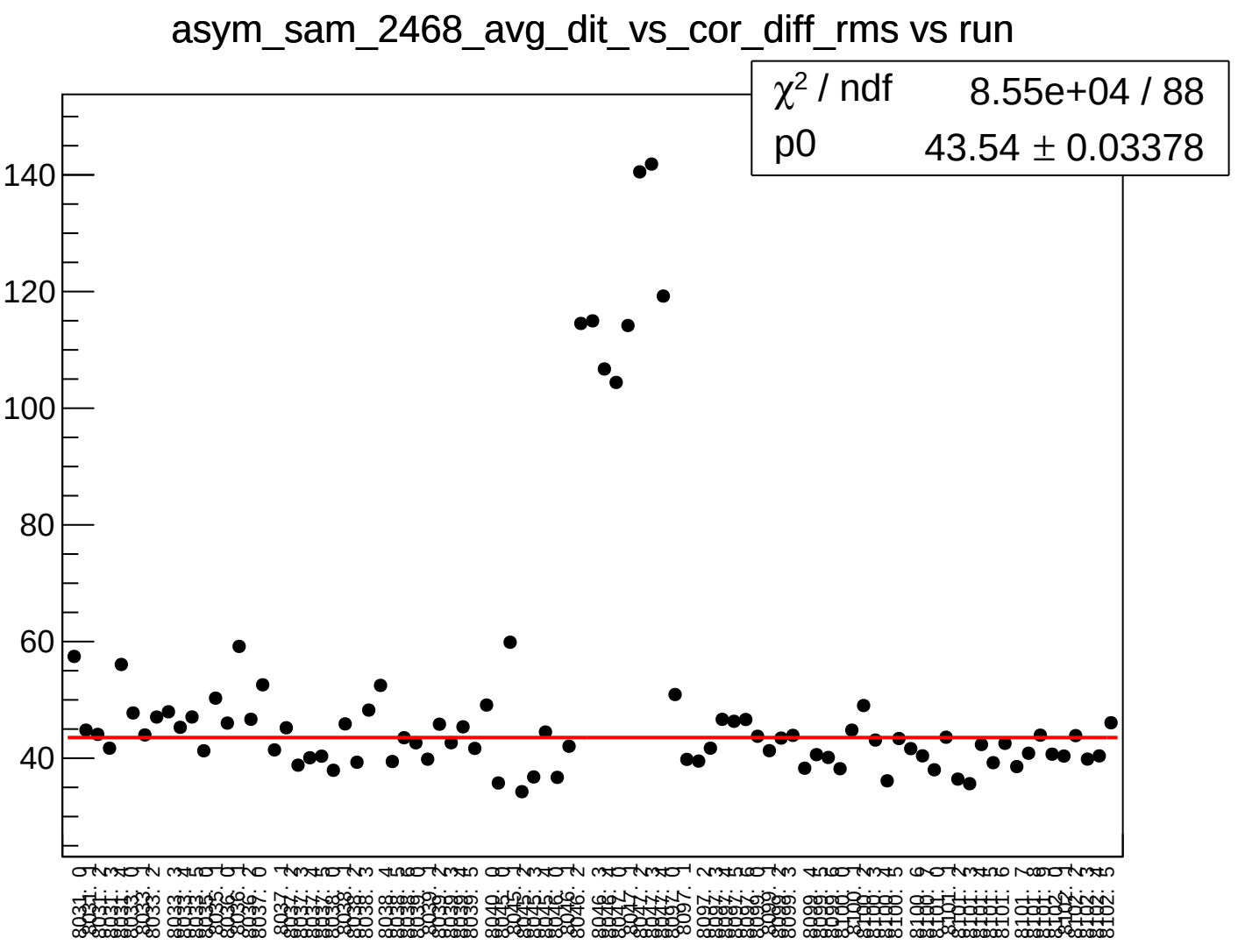

asym_sam_2468_avg_rms vs run
χ² / ndf 1.2e+04 / 88
p0 1580 ± 1.199
1900
1800
1700
1600
1500
1400
1300

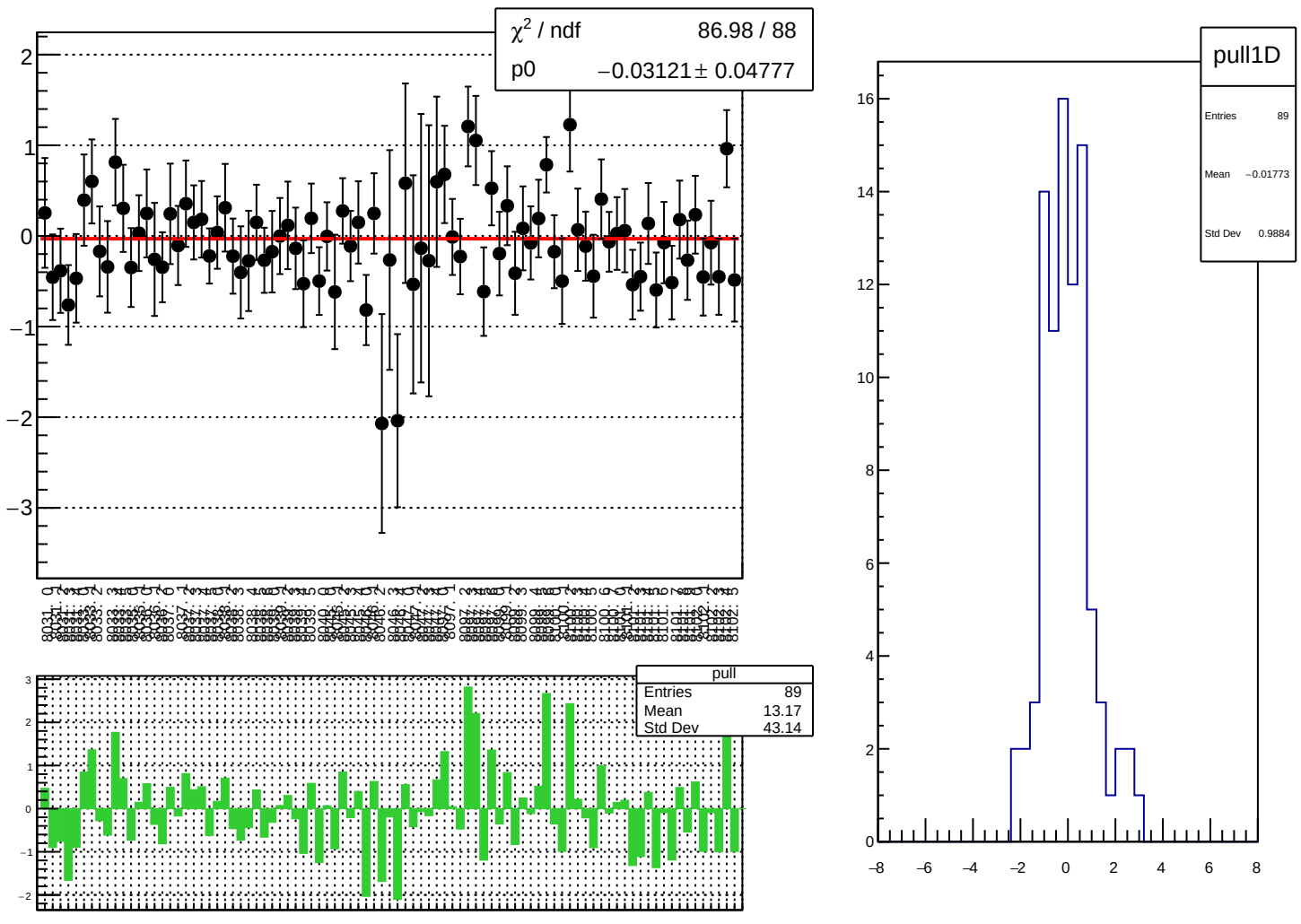

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.55 / 88
p0 −3.832e−13 ± 1.359e−13
0.004
0.003
0.002
0.001
0
pull
Entries 89
Mean −15.91
Std Dev 0
pull1D
Entries 89
Mean 0.07892
Std Dev 0.9715

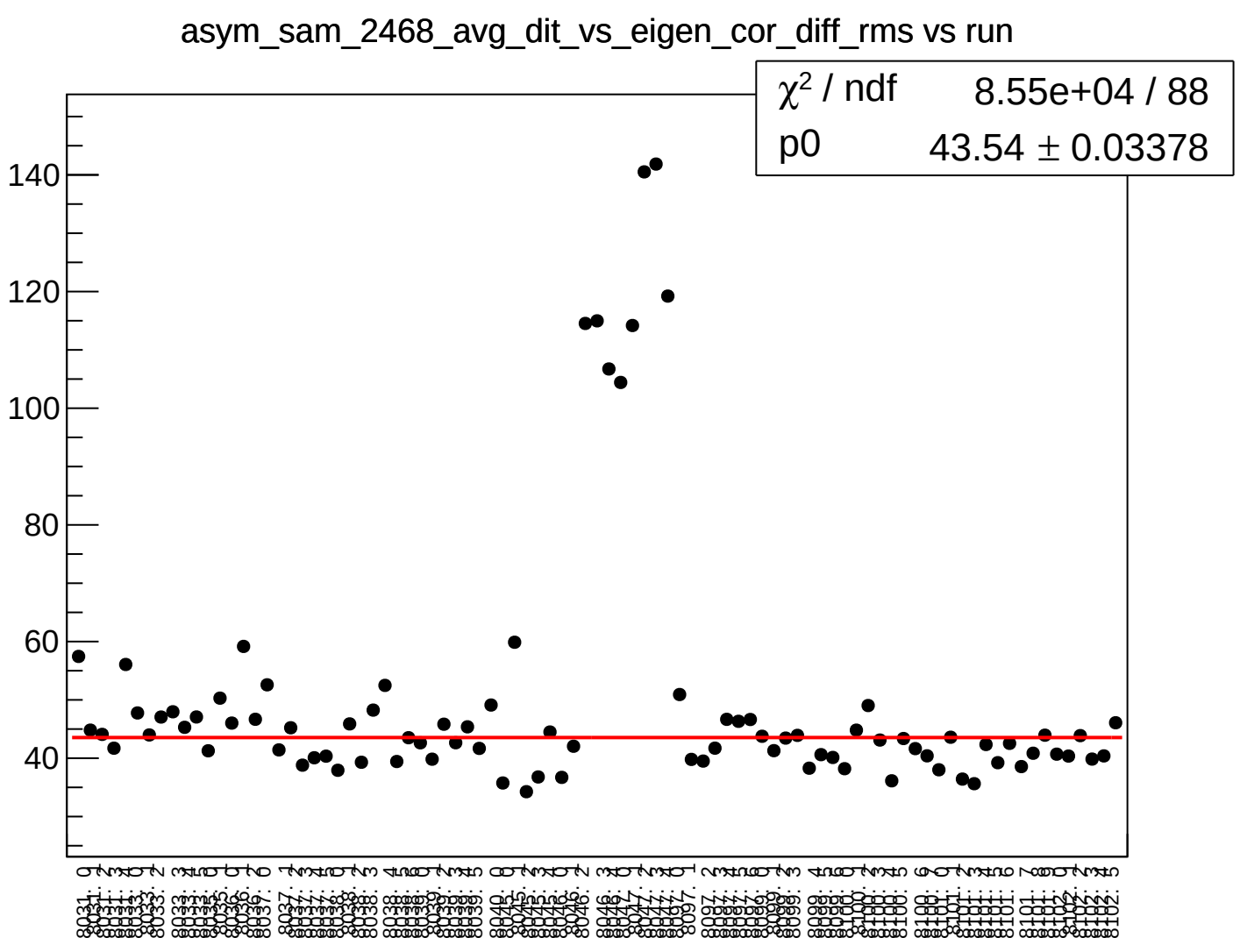

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.097e+06 / 88
p0 7.752e−11 ± 9.611e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

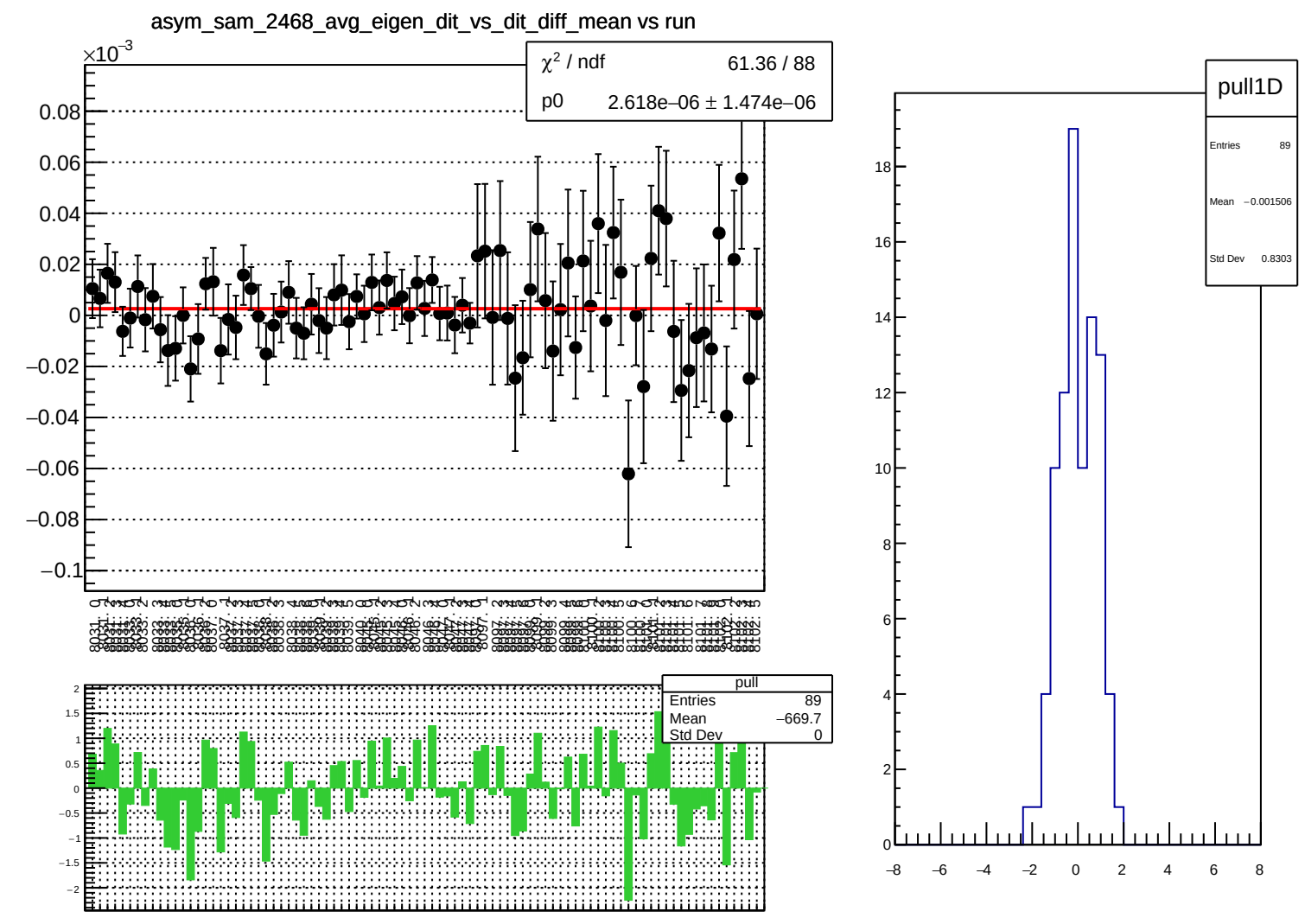

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 86.98 / 88
p0 −0.03121 ± 0.04777
pull
Entries 89
Mean 13.17
Std Dev 43.14

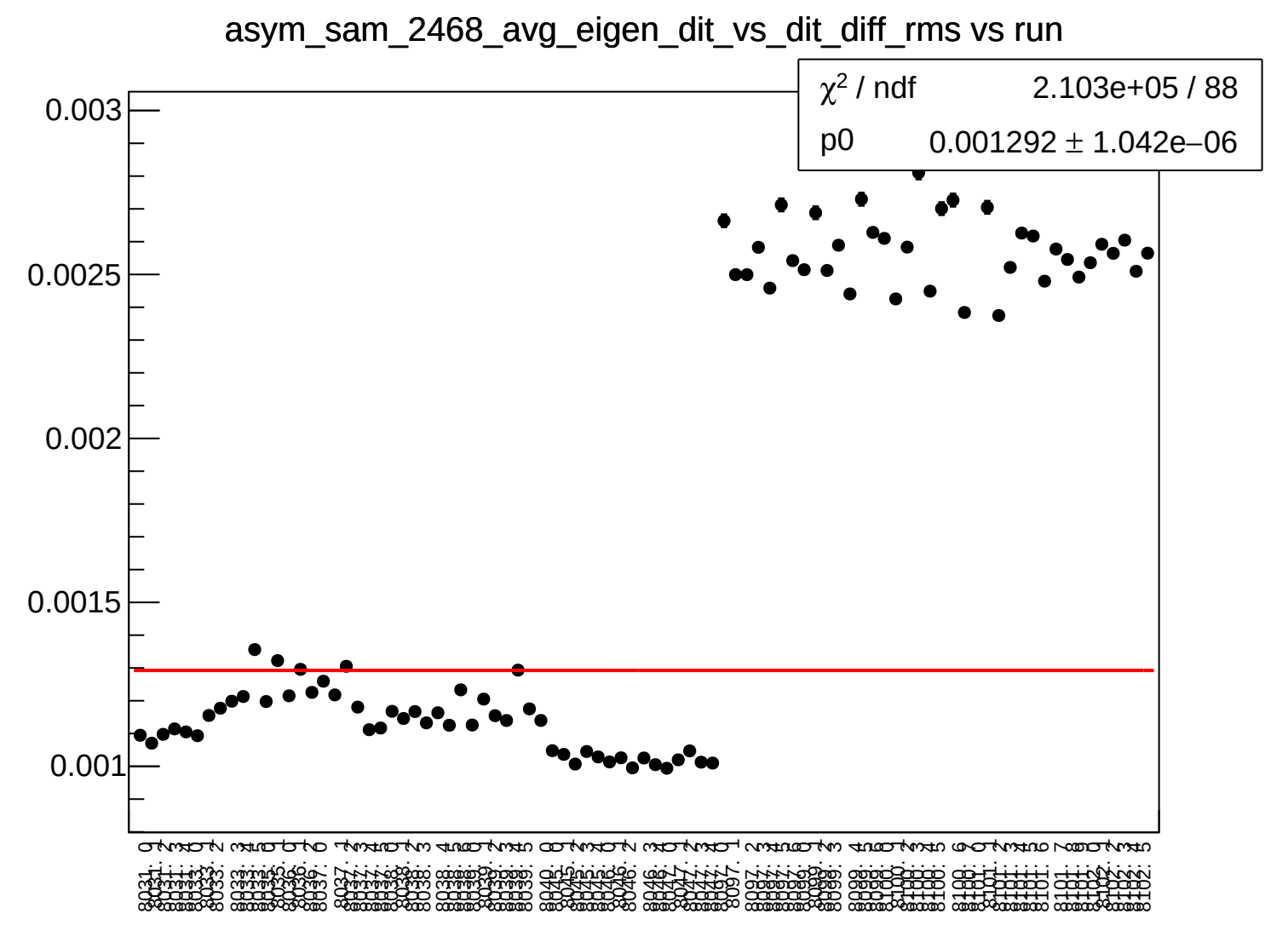

pull1D
Entries 89
Mean −0.01773
Std Dev 0.9884

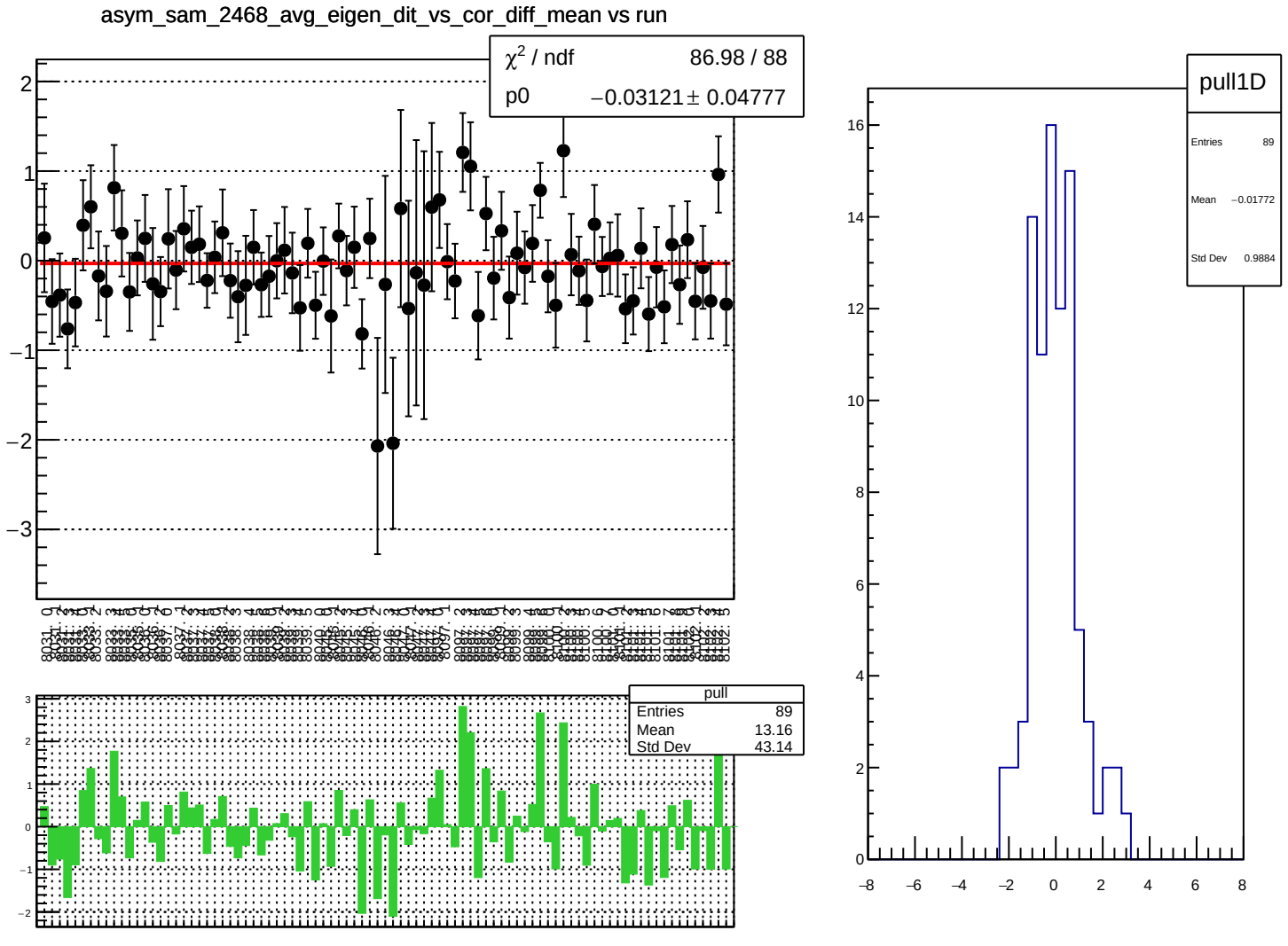

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.55e+04 / 88
p0 43.54 ± 0.03378
140
120
100
80
60
40

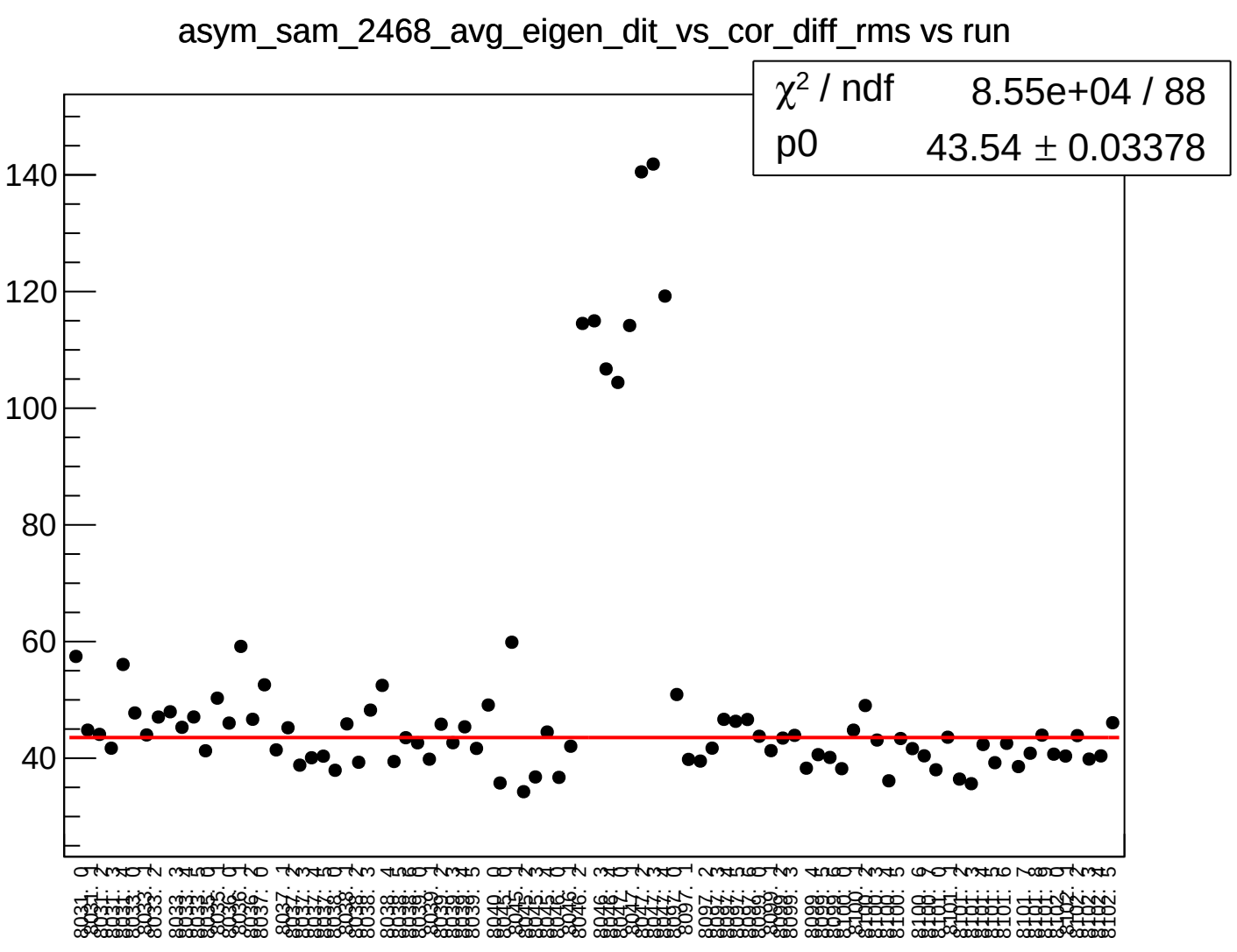

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.98 / 88
p0 −0.03121 ± 0.04777
pull
Entries 89
Mean 13.17
Std Dev 43.14
pull1D
Entries 89
Mean −0.01773
Std Dev 0.9884

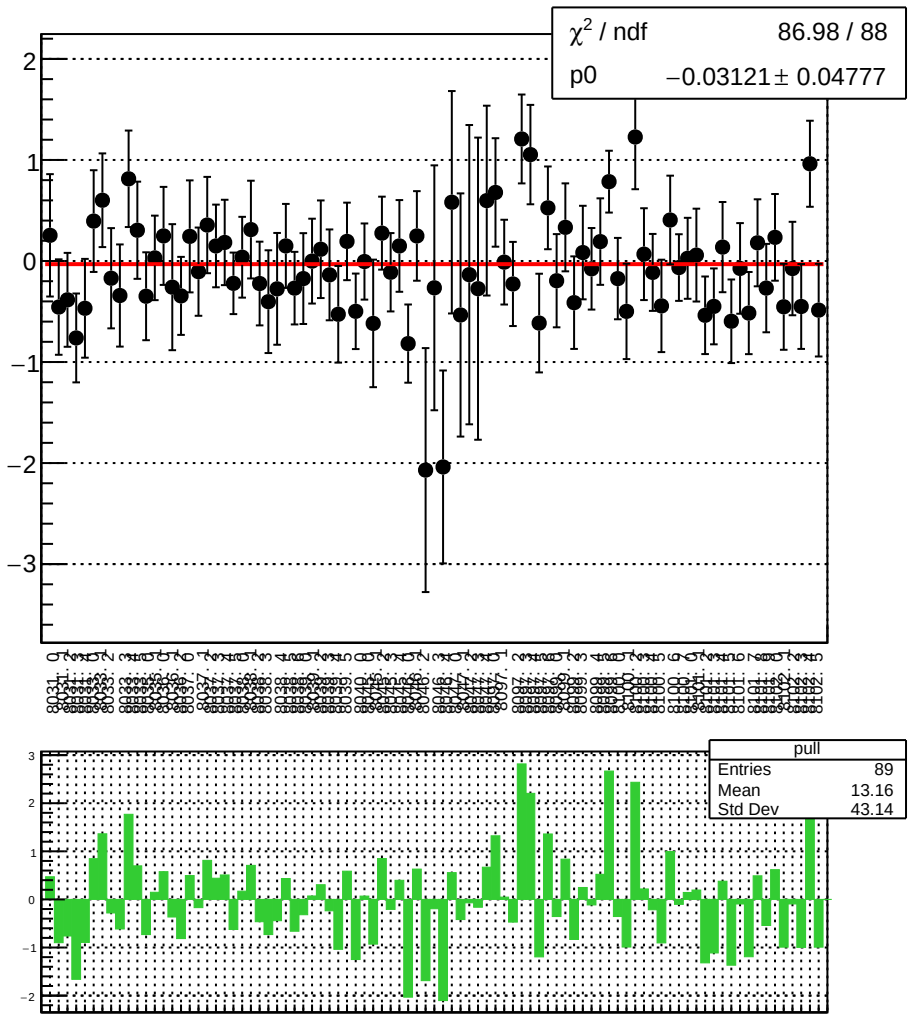

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.55e+04 / 88
p0 43.54 ± 0.03378
140
120
100
80
60
40

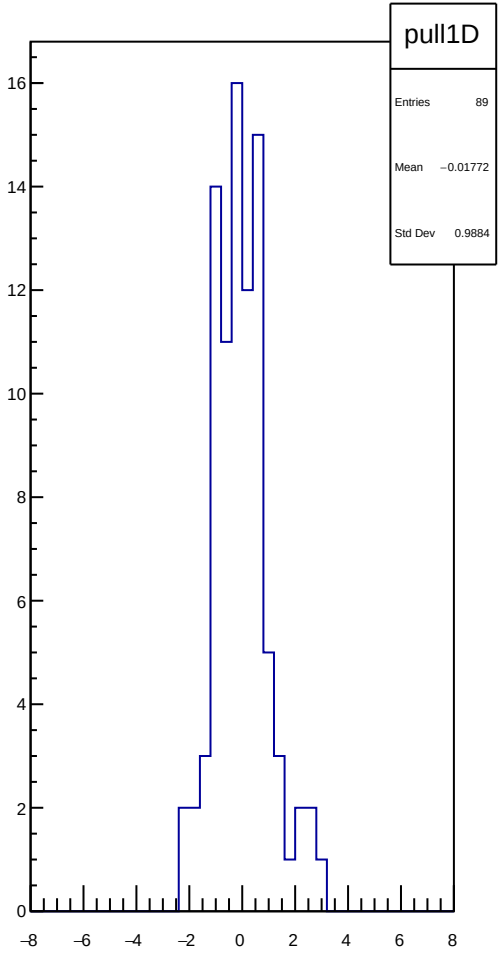

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 61.36 / 88
p0 2.618e−06 ± 1.474e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 89
Mean −669.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.001506
Std Dev 0.8303
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

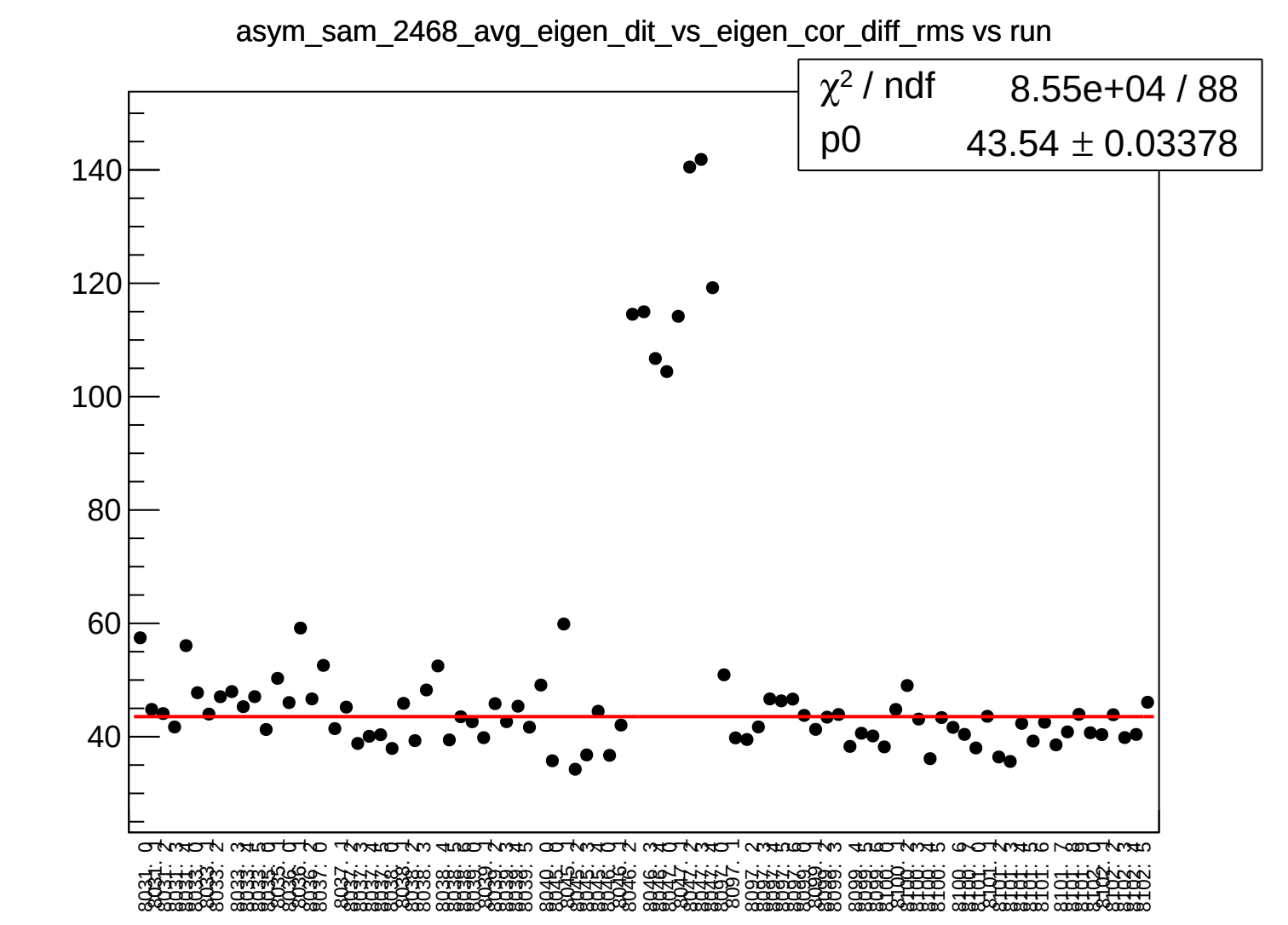

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.103e+05 / 88
p0 0.001292 ± 1.042e−06
0.003
0.0025
0.002
0.0015
0.001

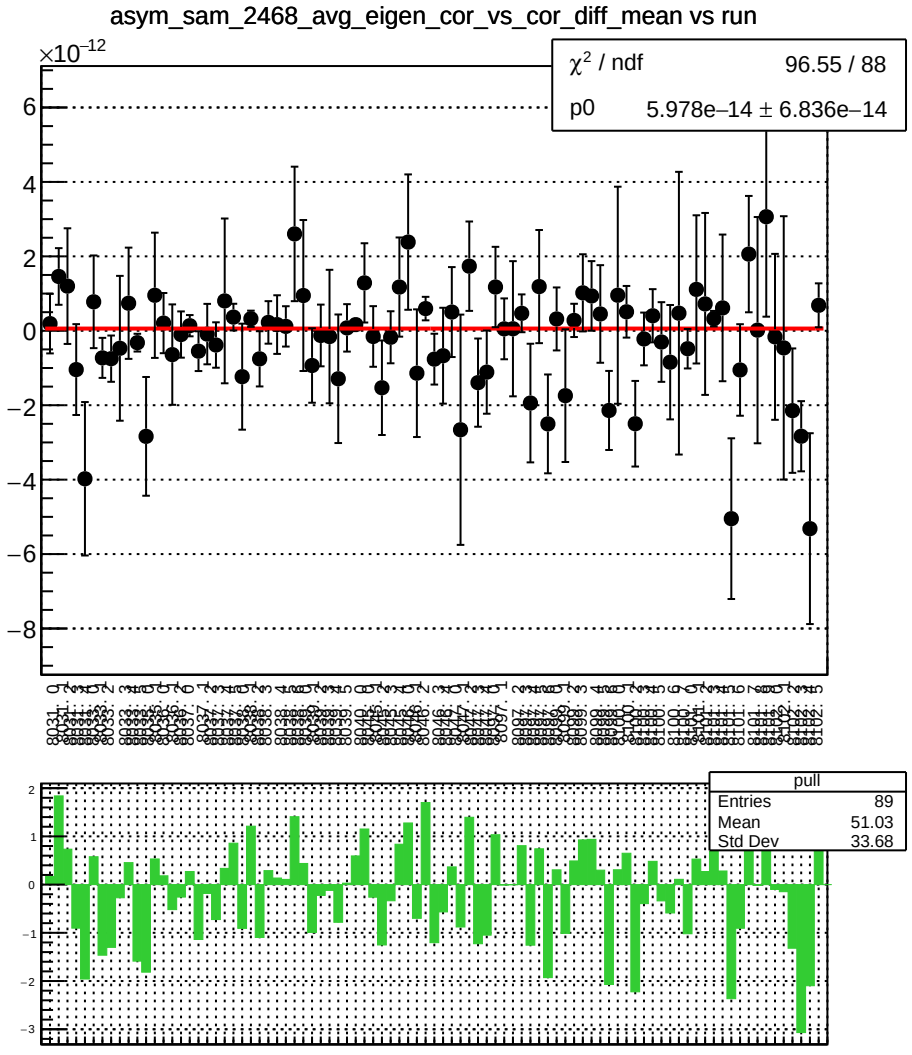

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.98 / 88
p0 −0.03121 ± 0.04777
pull
Entries 89
Mean 13.16
Std Dev 43.14
pull1D
Entries 89
Mean −0.01772
Std Dev 0.9884

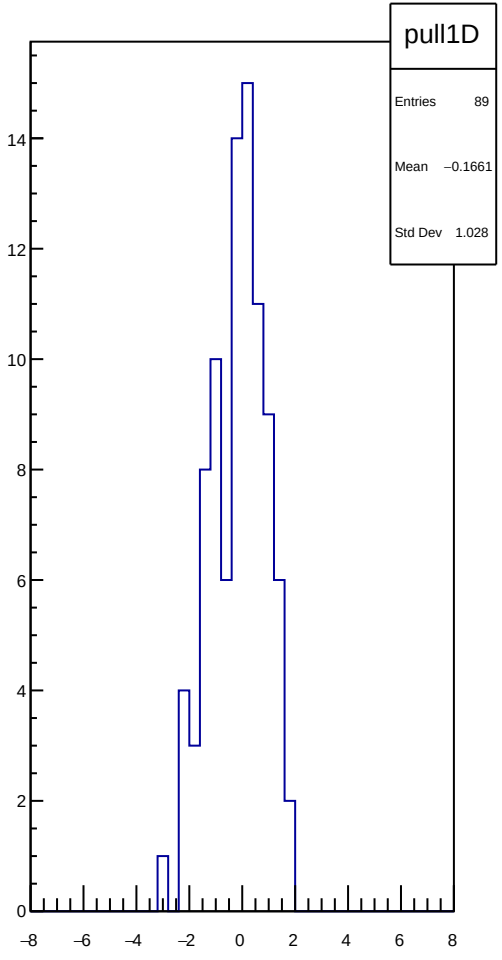

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.55e+04 / 88
p0 43.54 ± 0.03378
140
120
100
80
60
40

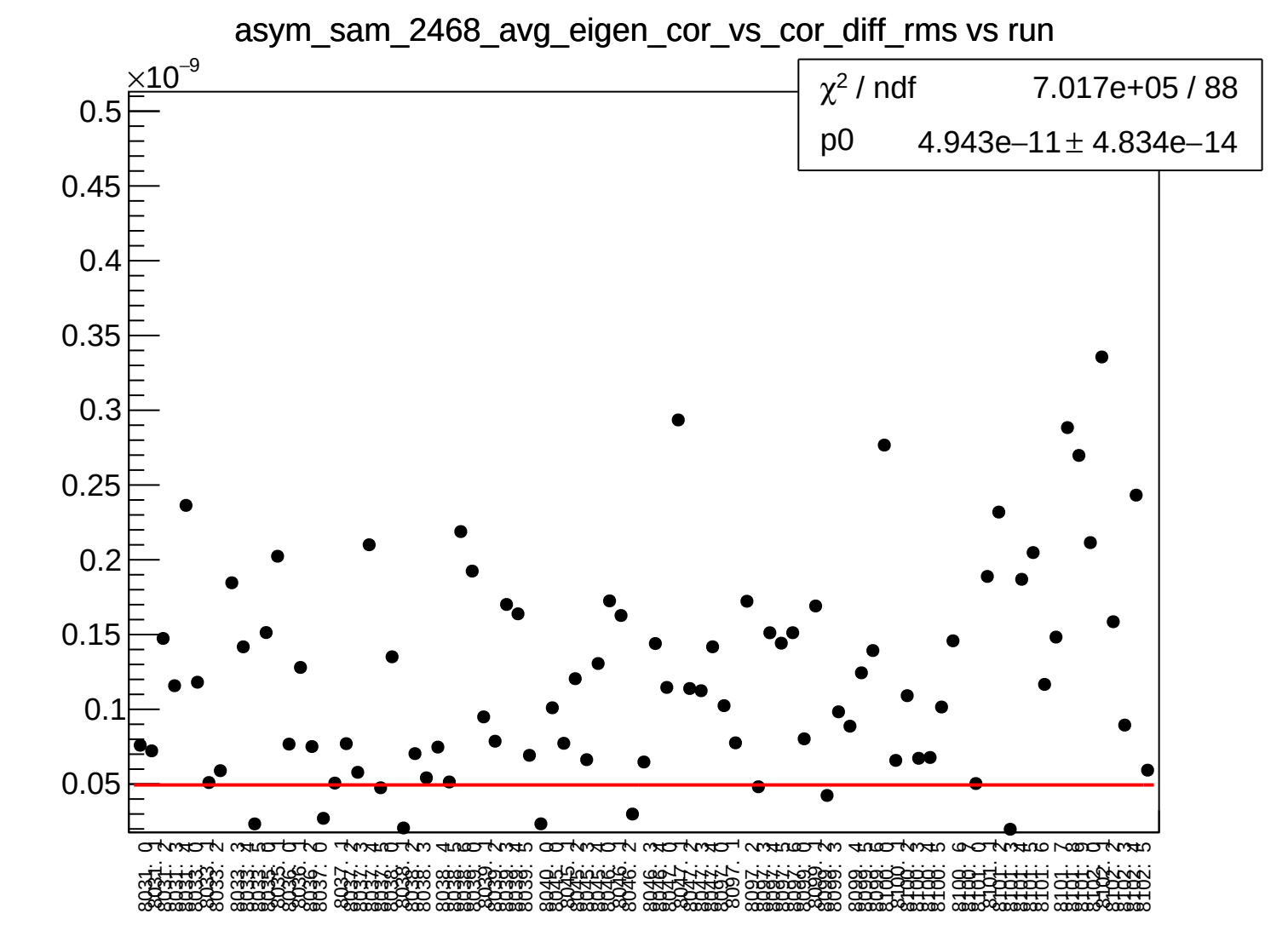

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.98 / 88
p0 −0.03121 ± 0.04777
pull
Entries 89
Mean 13.16
Std Dev 43.14

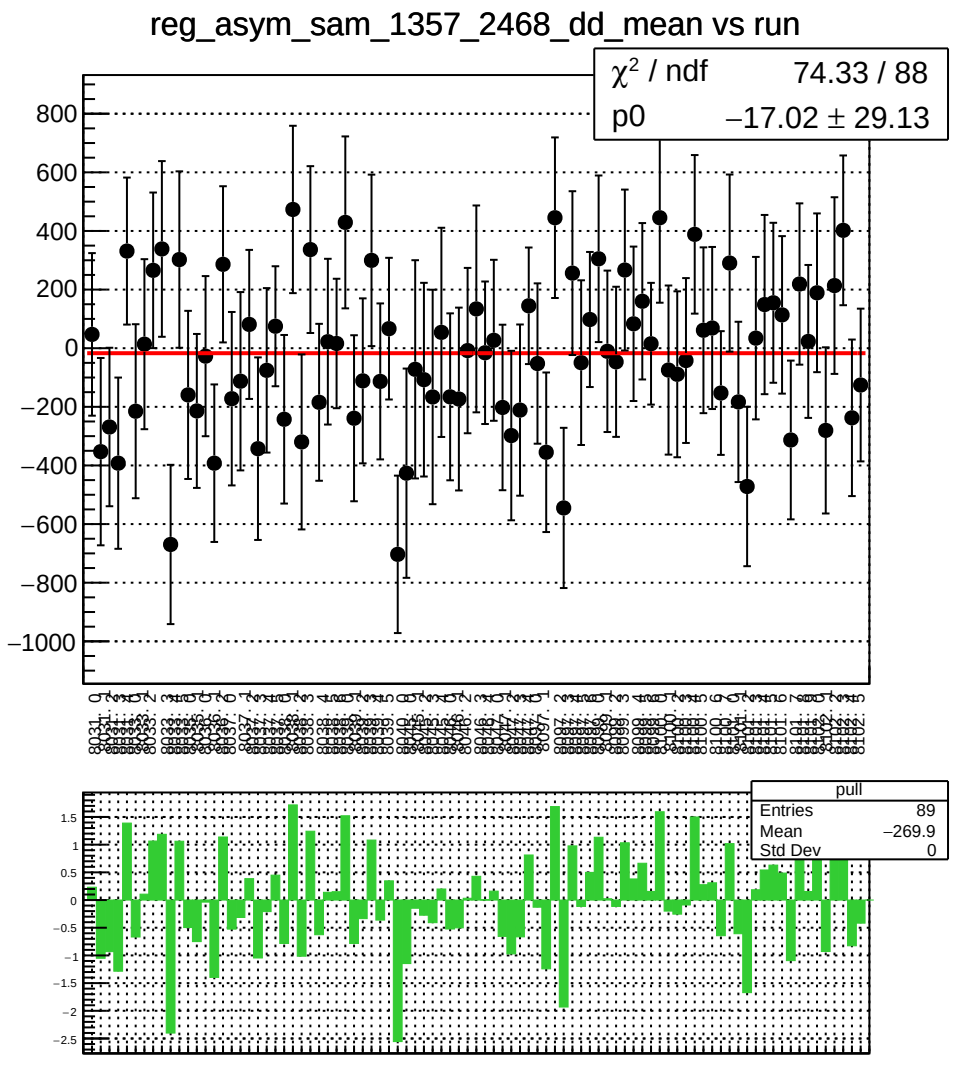

pull1D
Entries 89
Mean −0.01772
Std Dev 0.9884

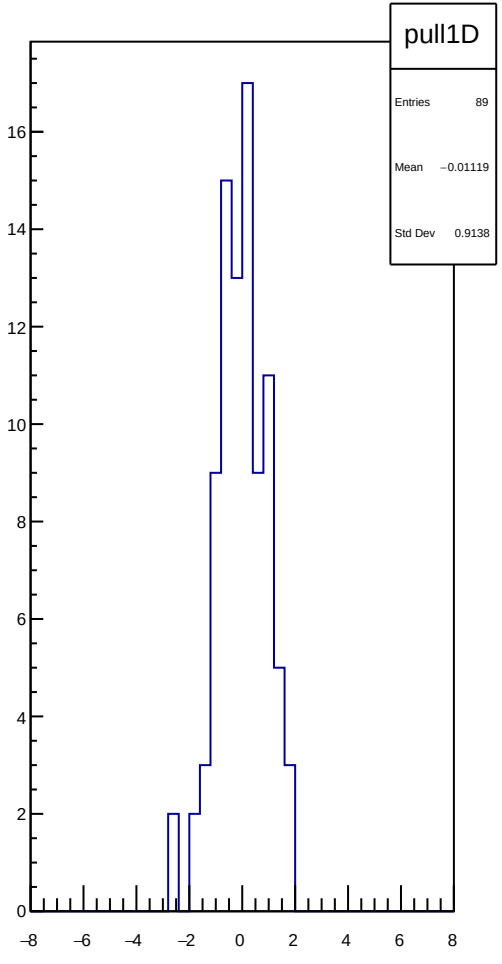

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.55e+04 / 88
p0 43.54 ± 0.03378
140
120
100
80
60
40

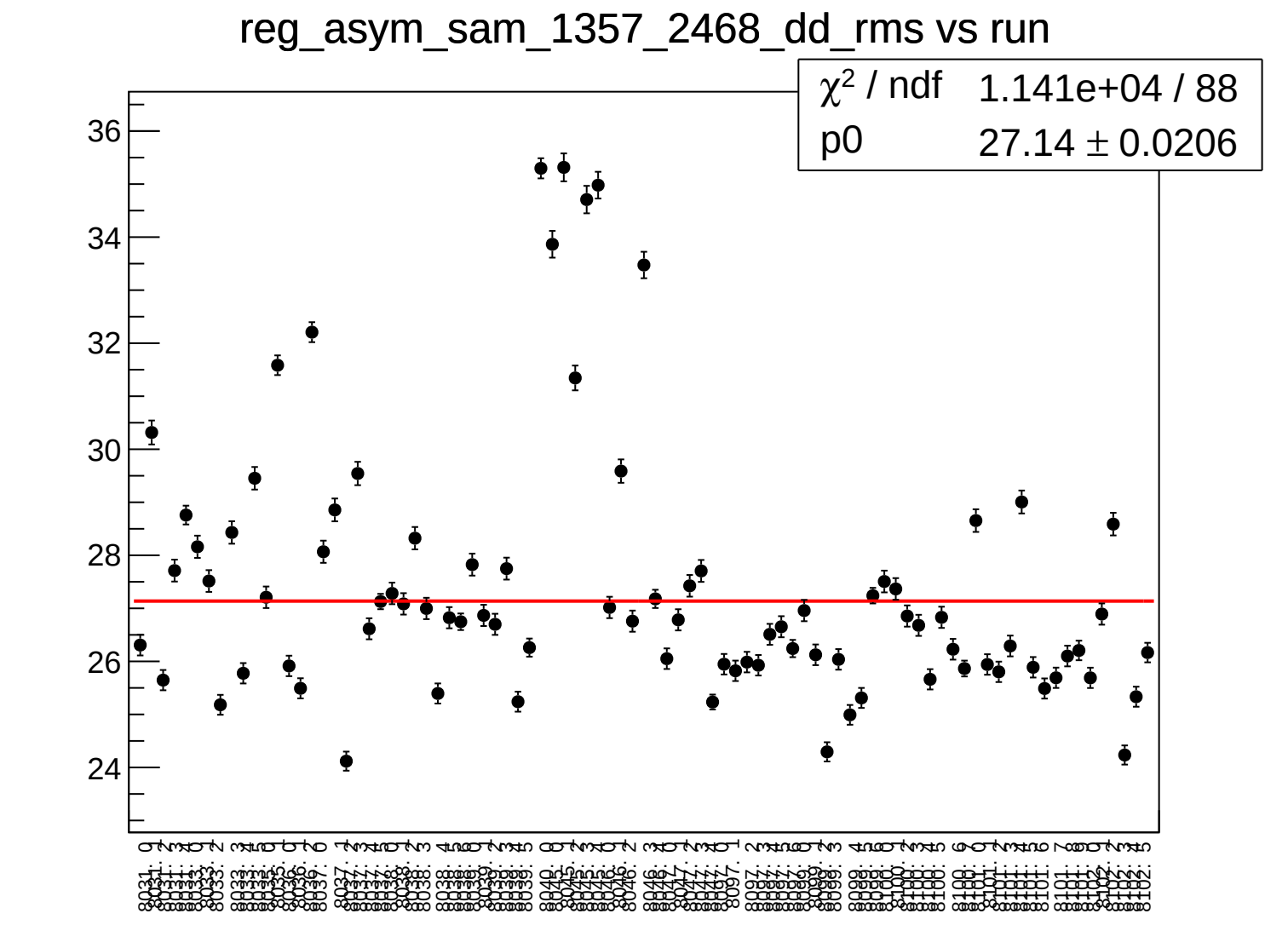

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 96.55 / 88
p0 5.978e−14 ± 6.836e−14
pull
Entries 89
Mean 51.03
Std Dev 33.68

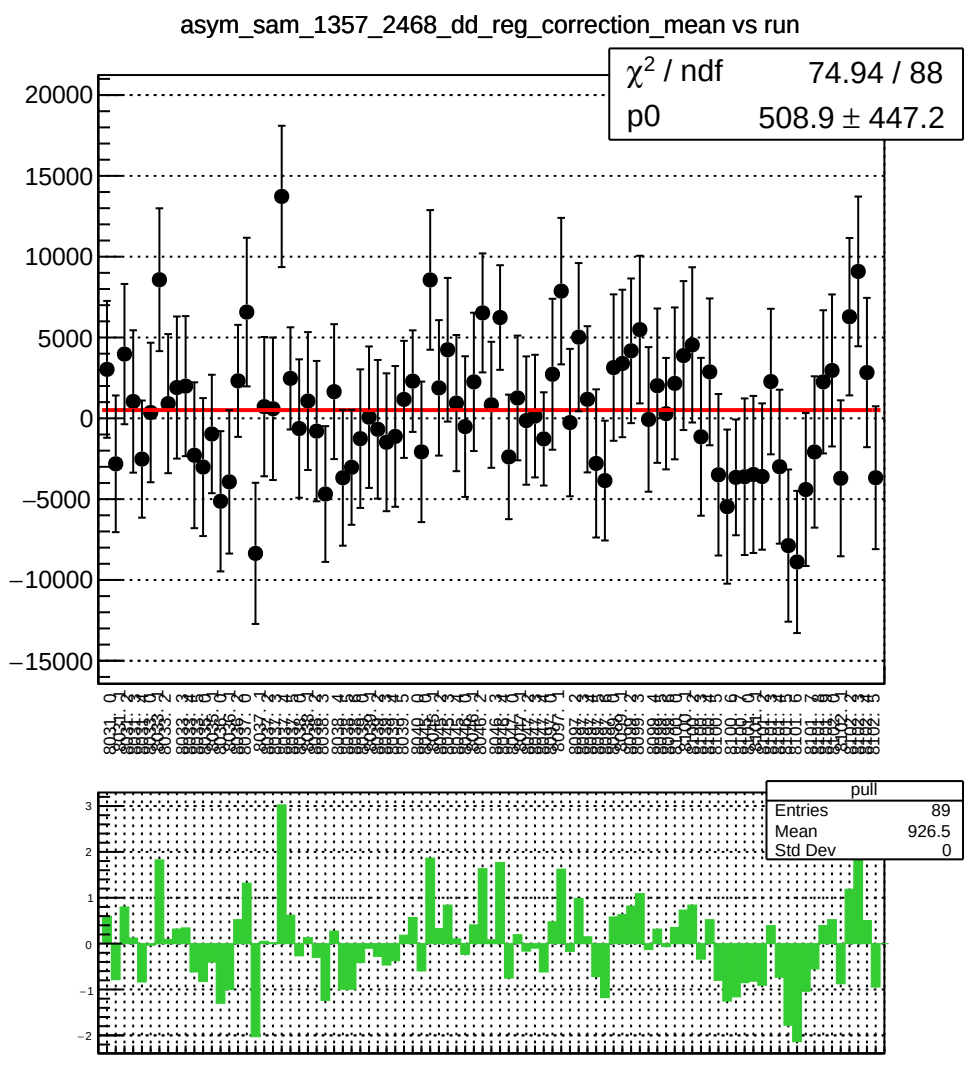

pull1D
Entries 89
Mean −0.1661
Std Dev 1.028

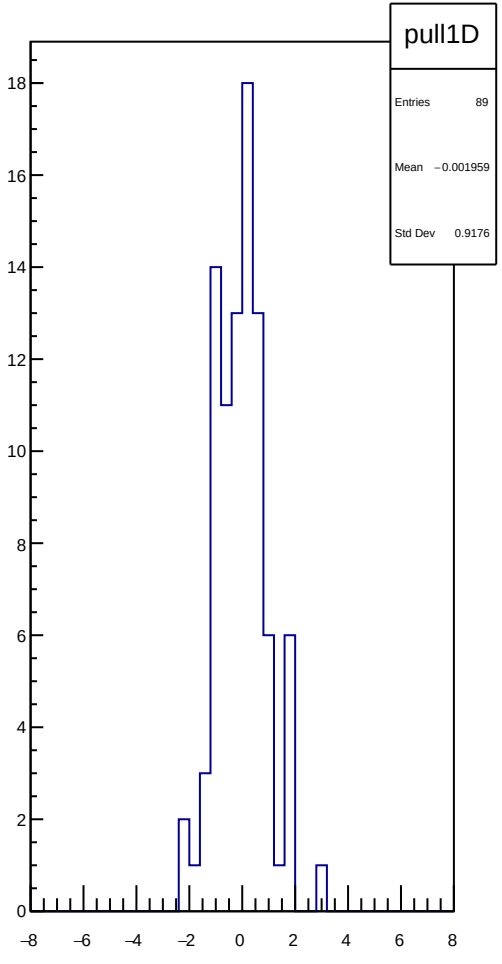

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.017e+05 / 88
p0 4.943e−11 ± 4.834e−14
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

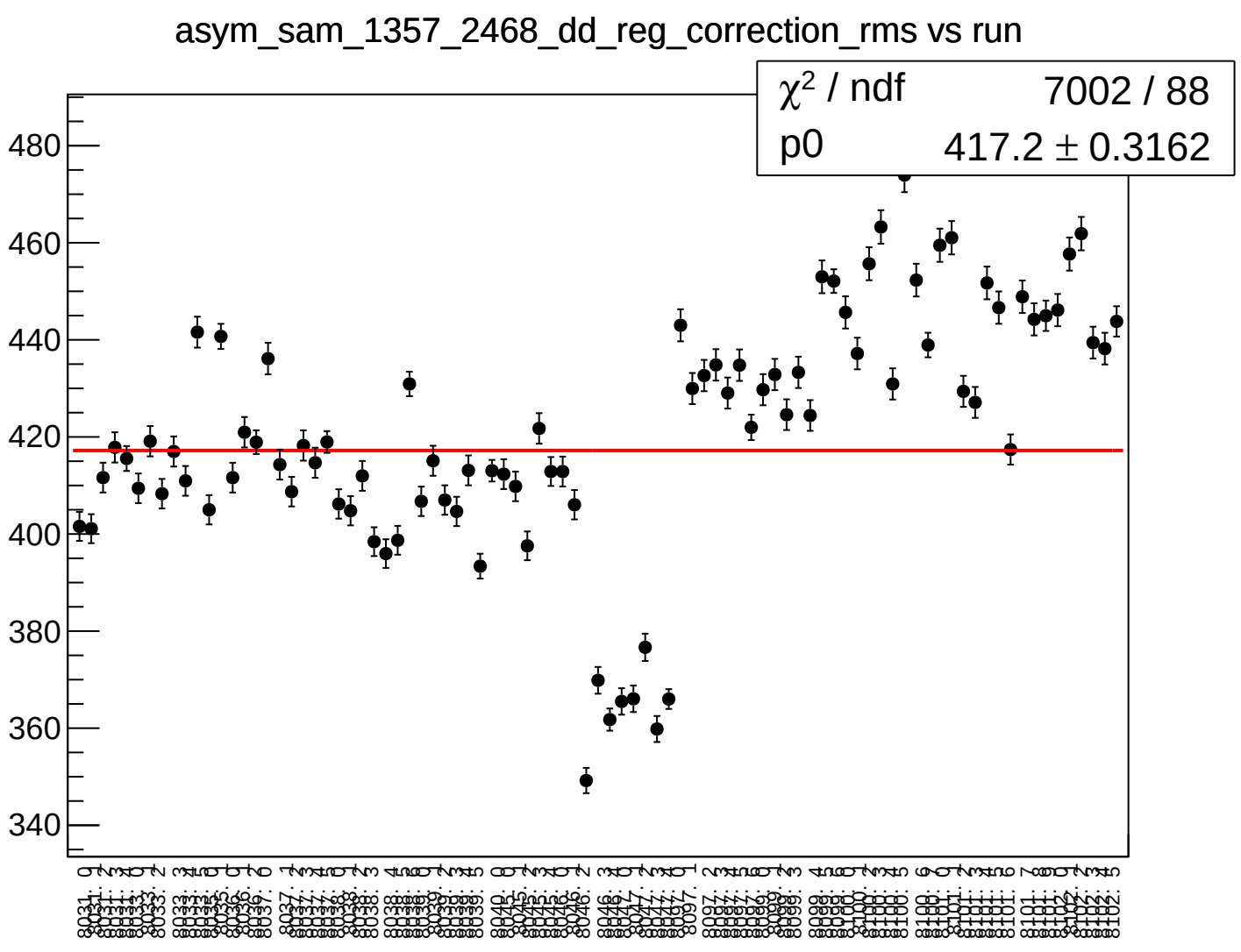

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 74.33 / 88
p0 −17.02 ± 29.13
pull
Entries 89
Mean −269.9
Std Dev 0

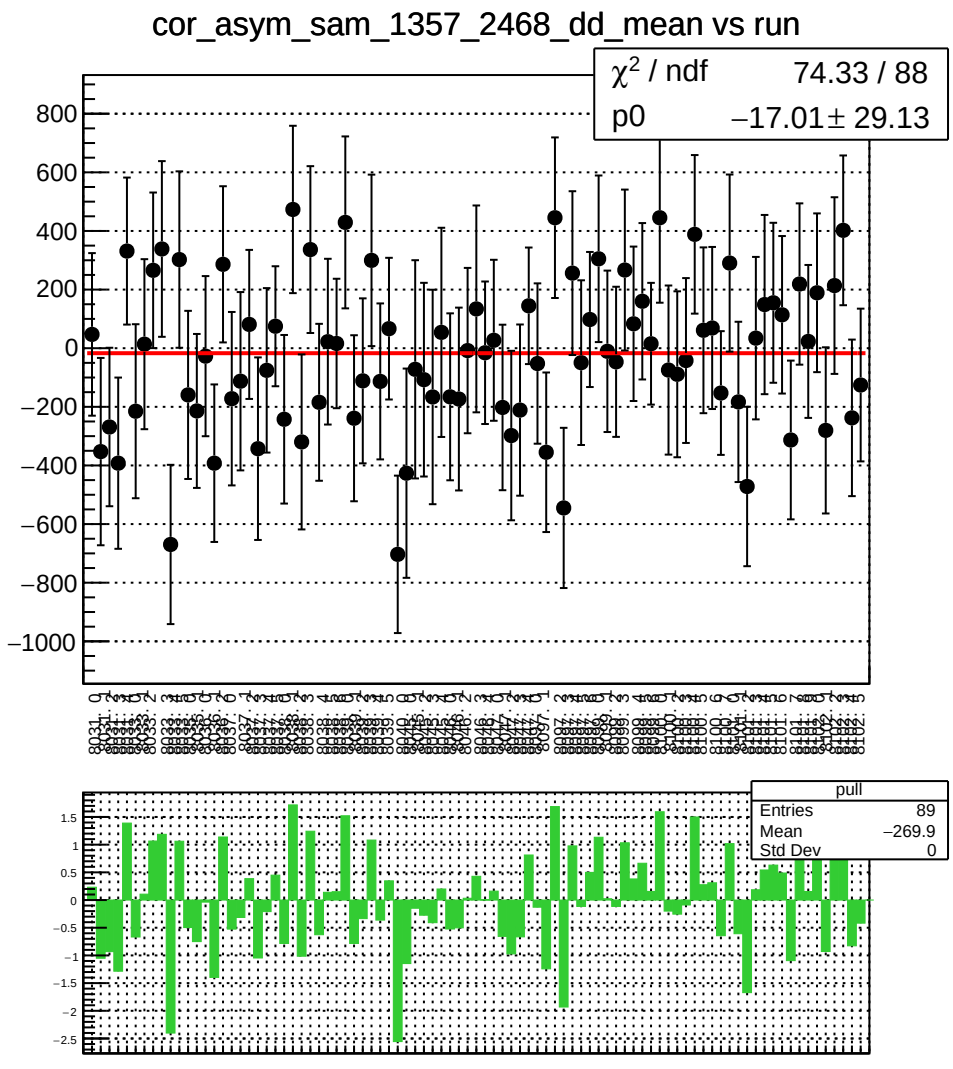

pull1D
Entries 89
Mean −0.01119
Std Dev 0.9138

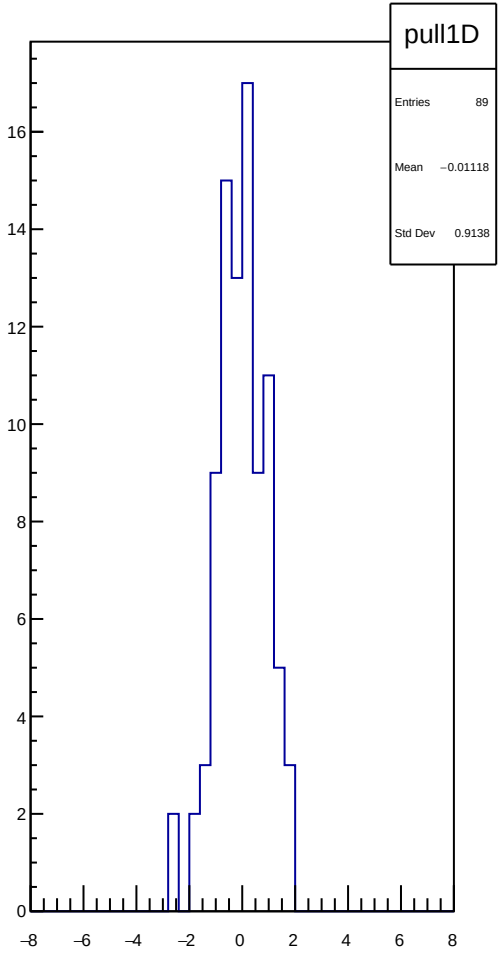

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.141e+04 / 88
p0 27.14 ± 0.0206
36
34
32
30
28
26
24

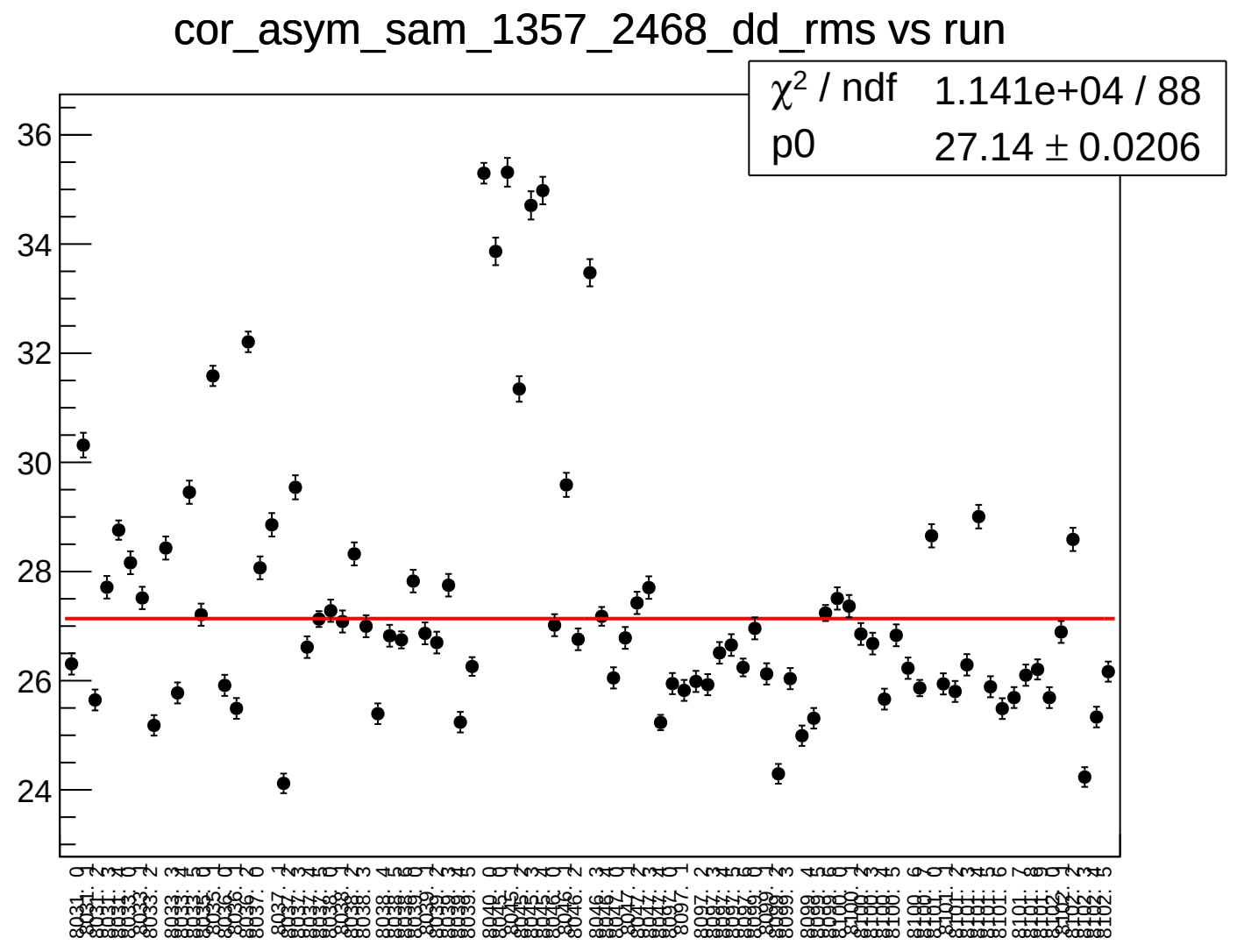

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 74.94 / 88
p0 508.9 ± 447.2
pull
Entries 89
Mean 926.5
Std Dev 0

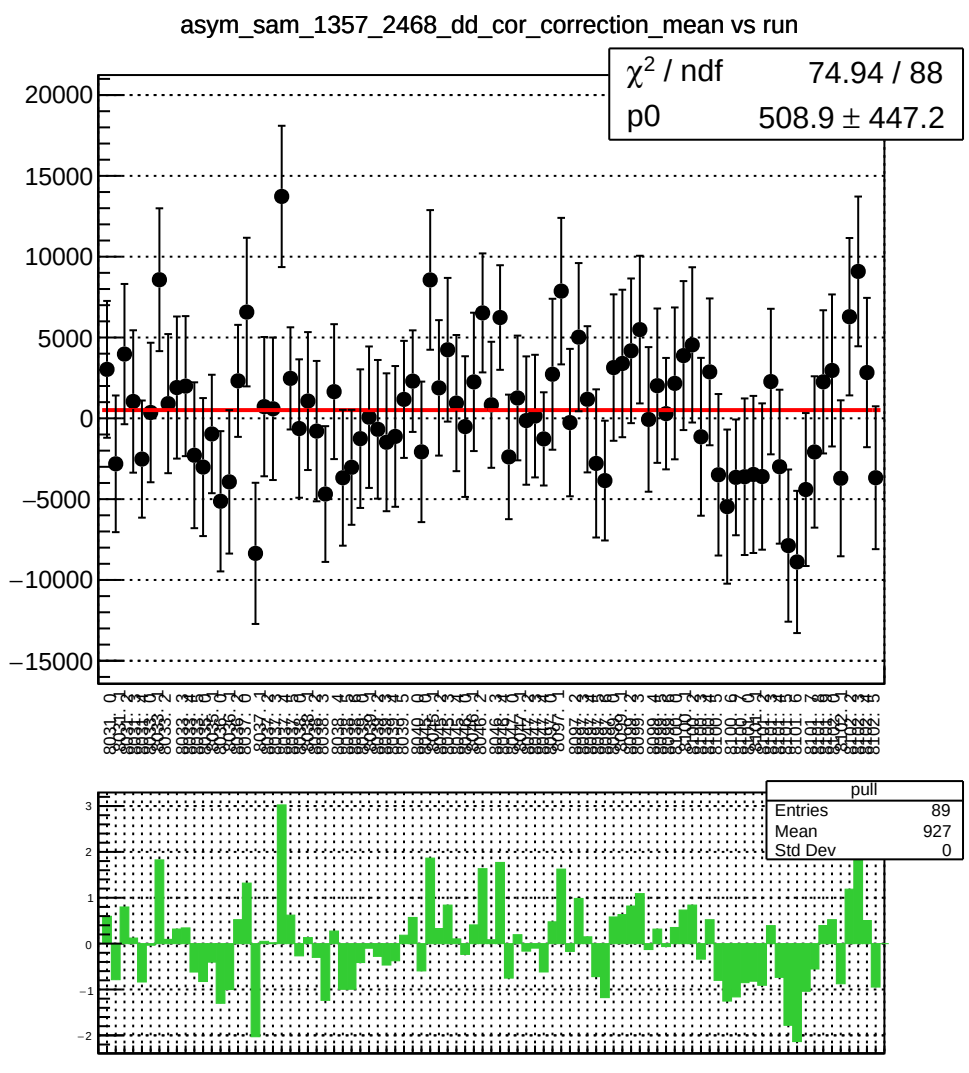

pull1D
Entries 89
Mean −0.001959
Std Dev 0.9176

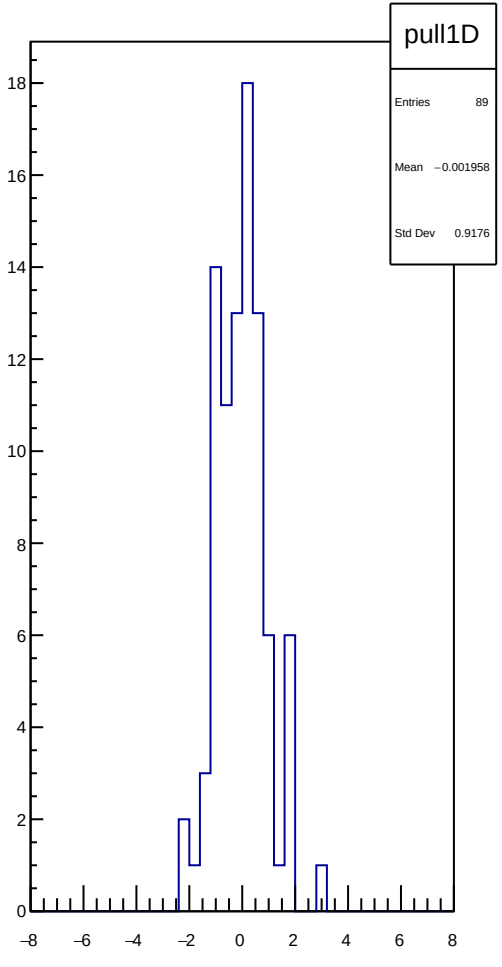

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 7002 / 88
p0 417.2 ± 0.3162
480
460
440
420
400
380
360
340

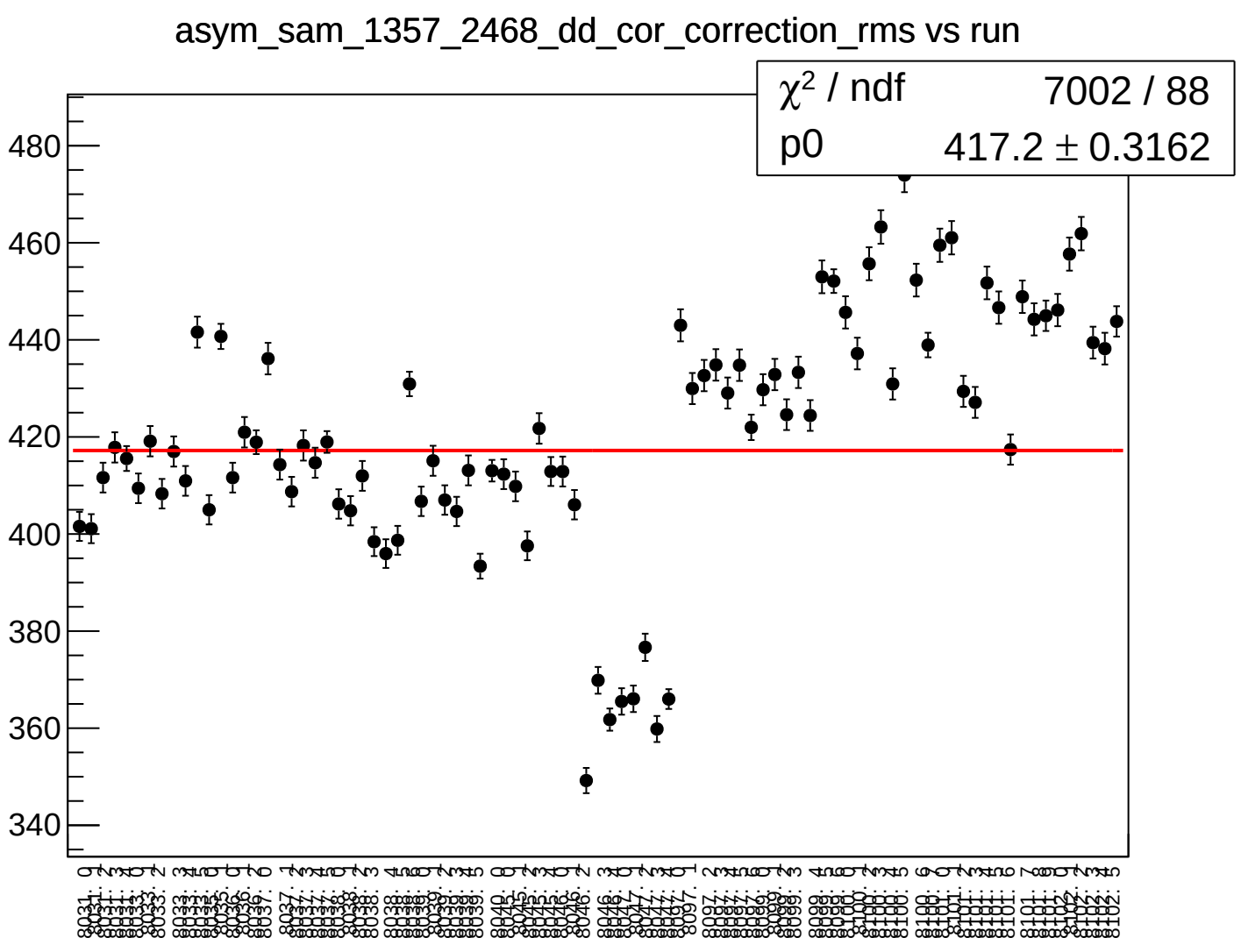

cor_asym_sam_1357_2468_dd_mean vs run
$\chi^2$ / ndf 74.33 / 88
p0 −17.01± 29.13
pull
Entries 89
Mean −269.9
Std Dev 0

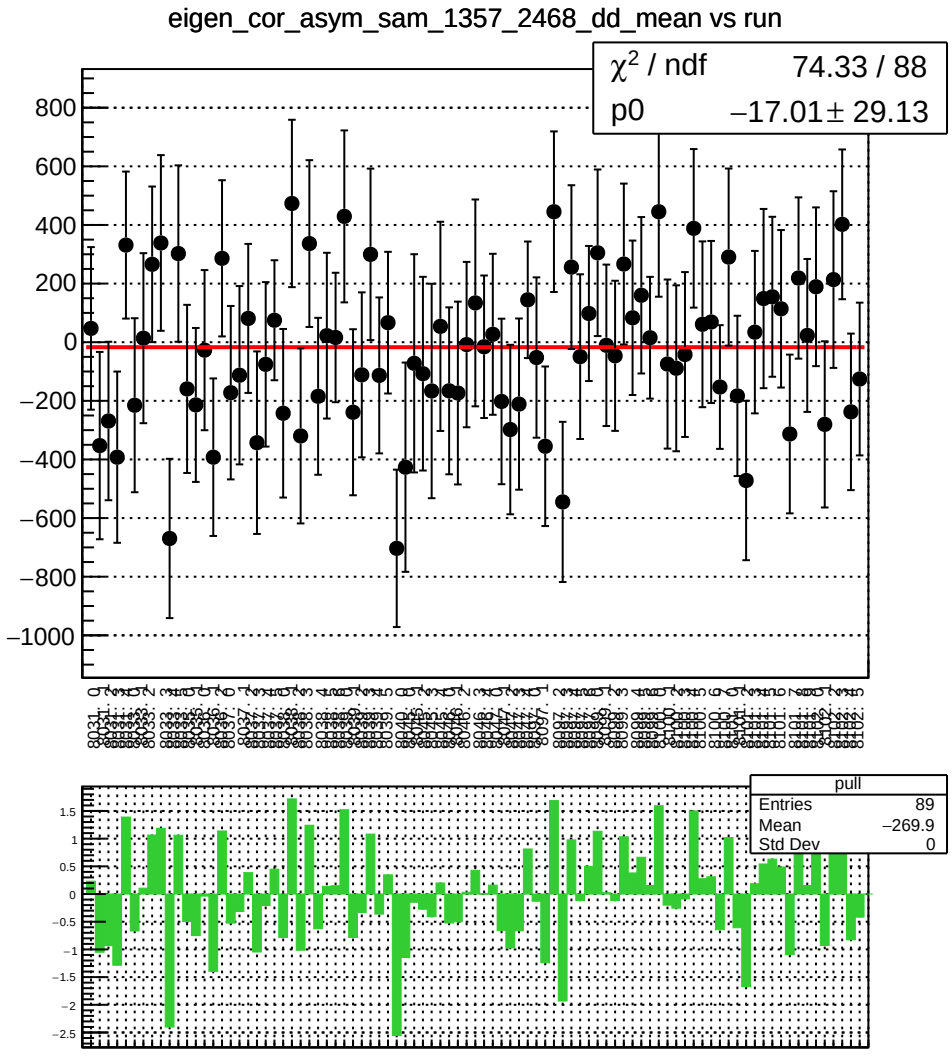

pull1D
Entries 89
Mean −0.01118
Std Dev 0.9138

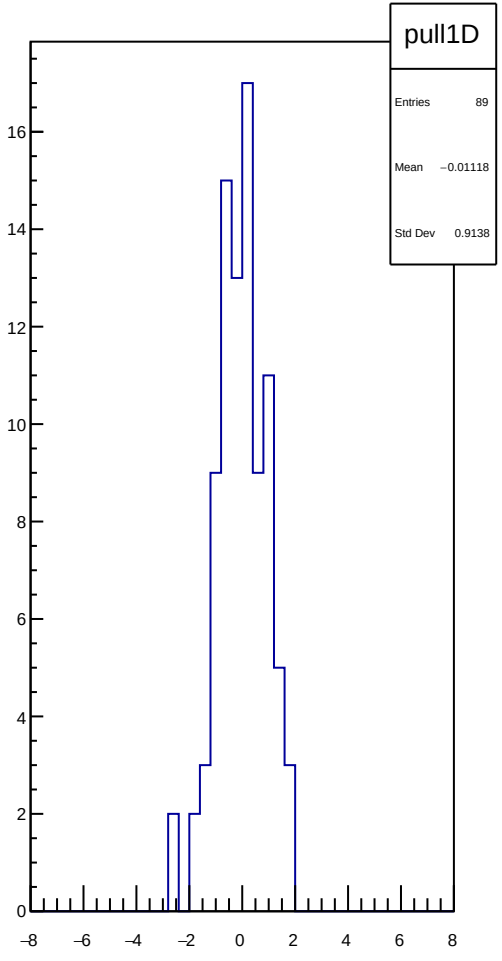

cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.141e+04 / 88
p0 27.14 ± 0.0206
36
34
32
30
28
26
24

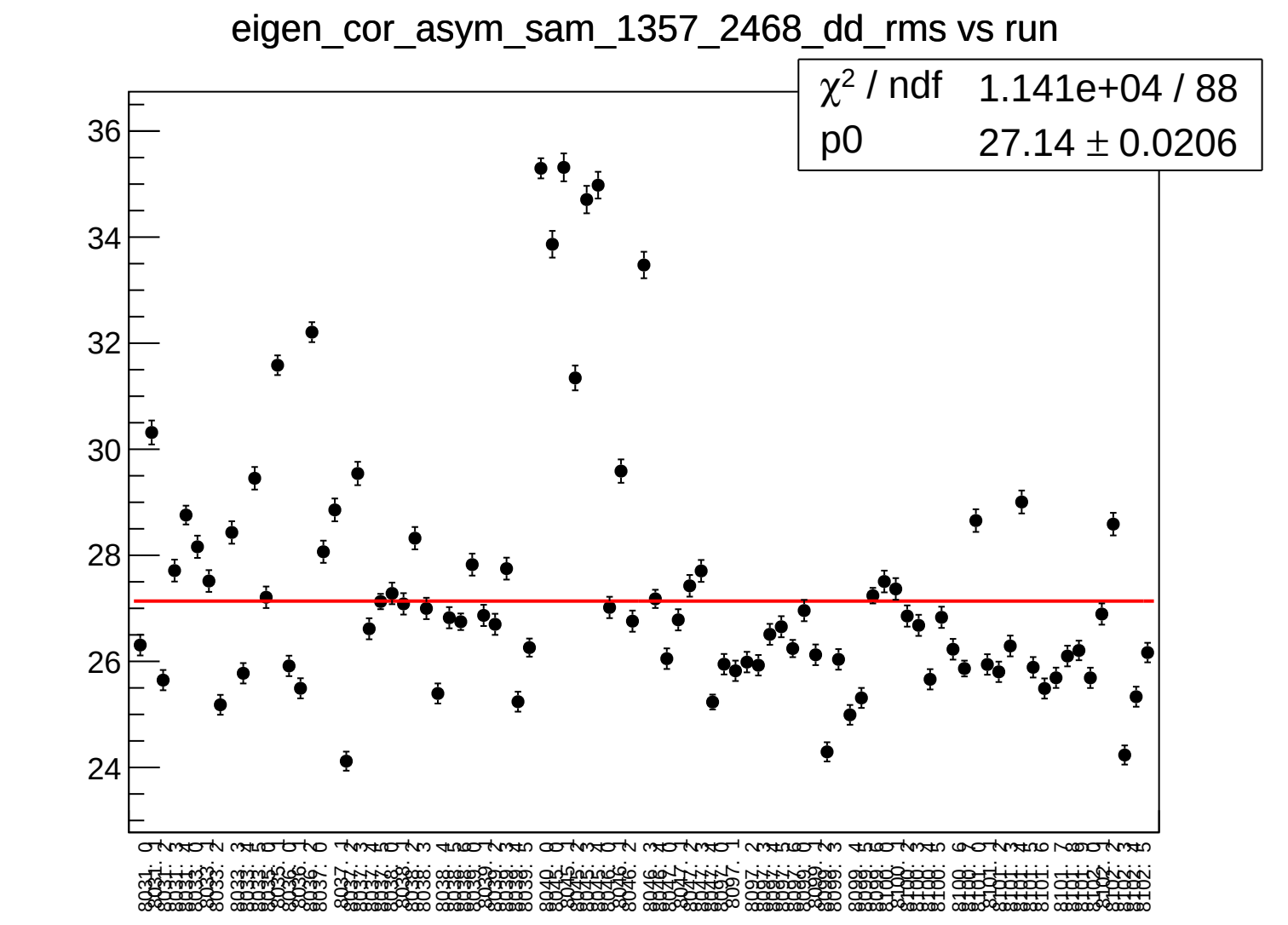

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 74.94 / 88
p0 508.9 ± 447.2
pull
Entries 89
Mean 927
Std Dev 0

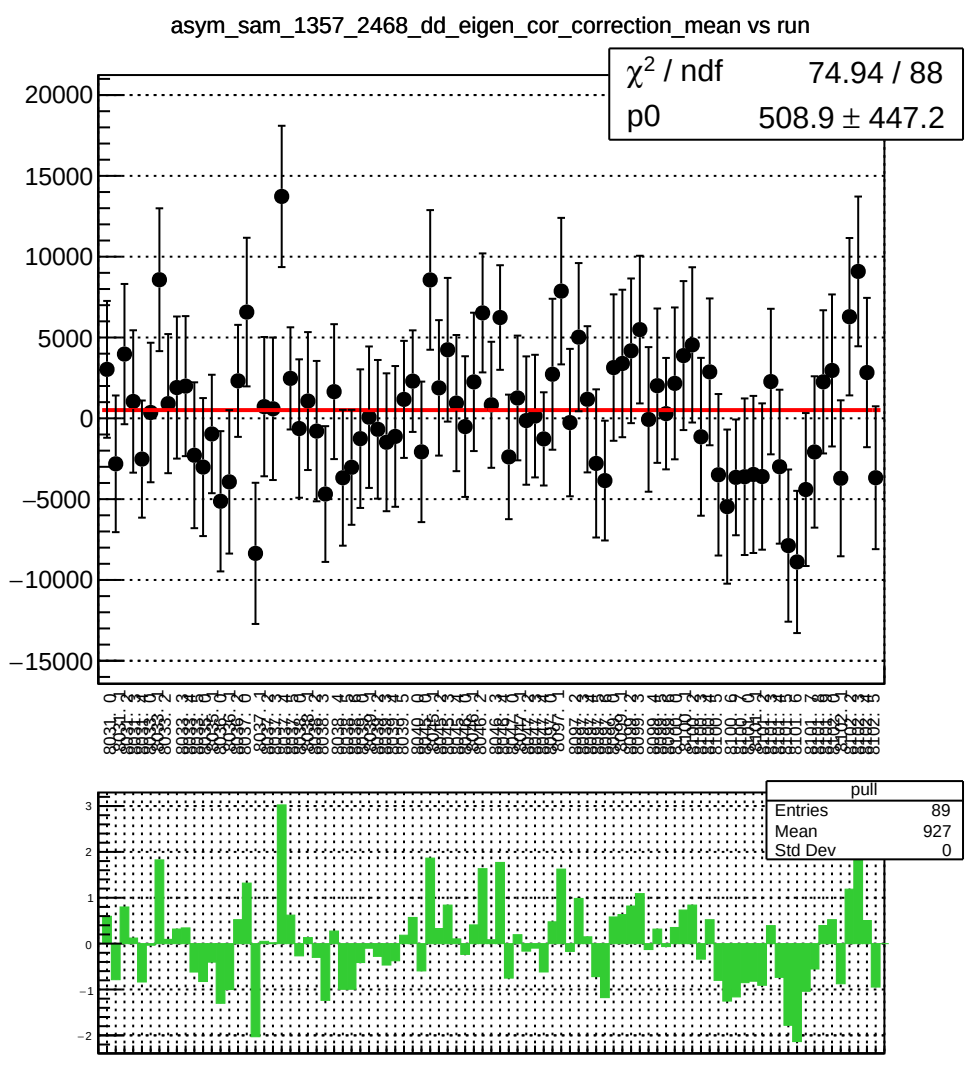

pull1D
Entries 89
Mean −0.001958
Std Dev 0.9176

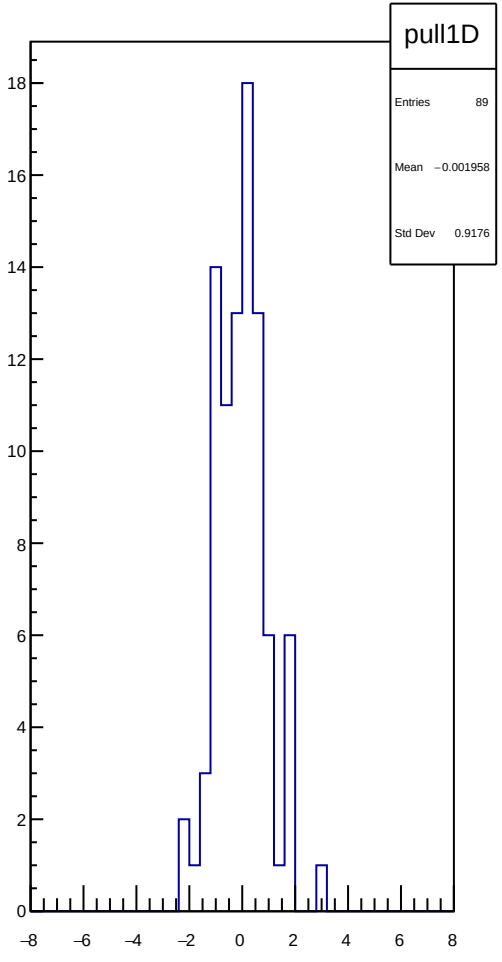

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 7002 / 88
p0 417.2 ± 0.3162
480
460
440
420
400
380
360
340

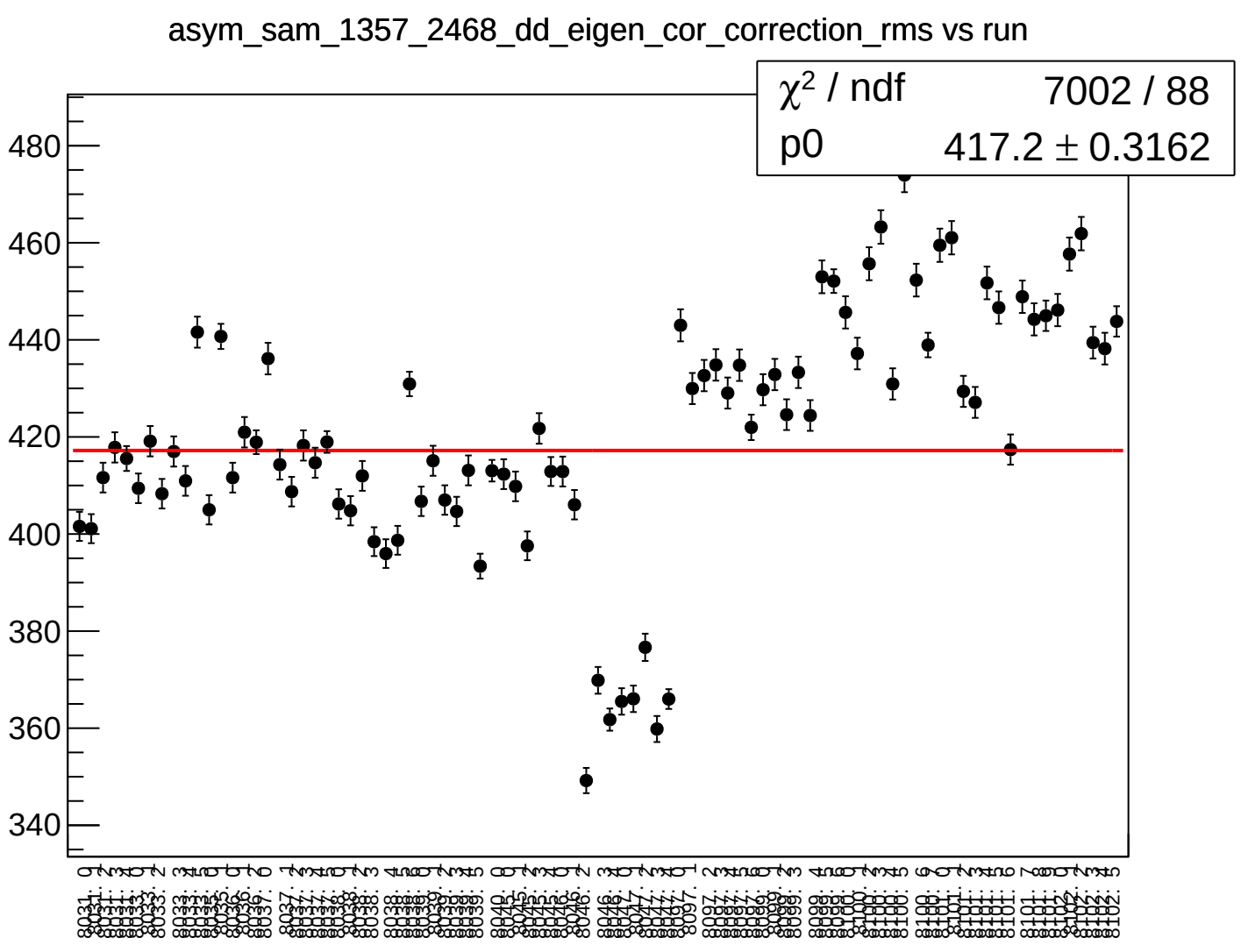

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 74.33 / 88
p0 −17.01± 29.13
pull
Entries 89
Mean −269.9
Std Dev 0

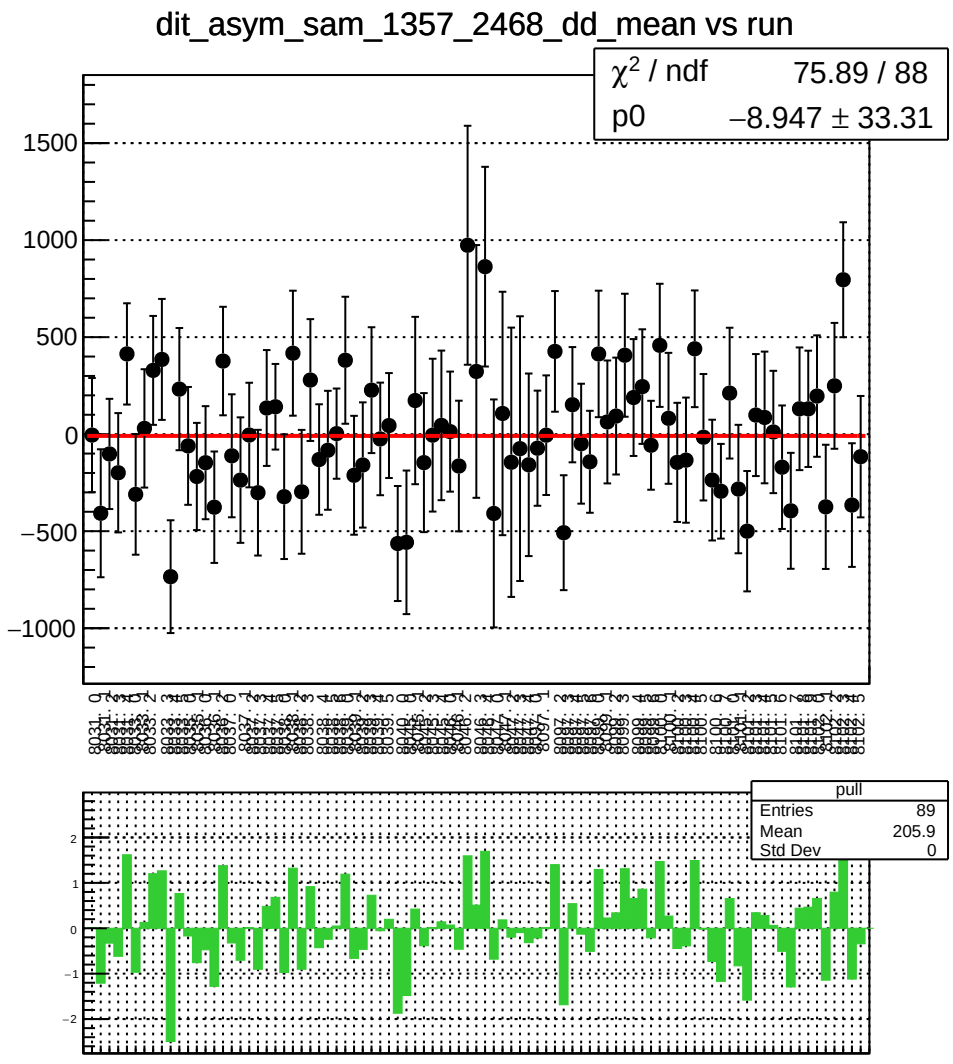

pull1D
Entries 89
Mean −0.01118
Std Dev 0.9138

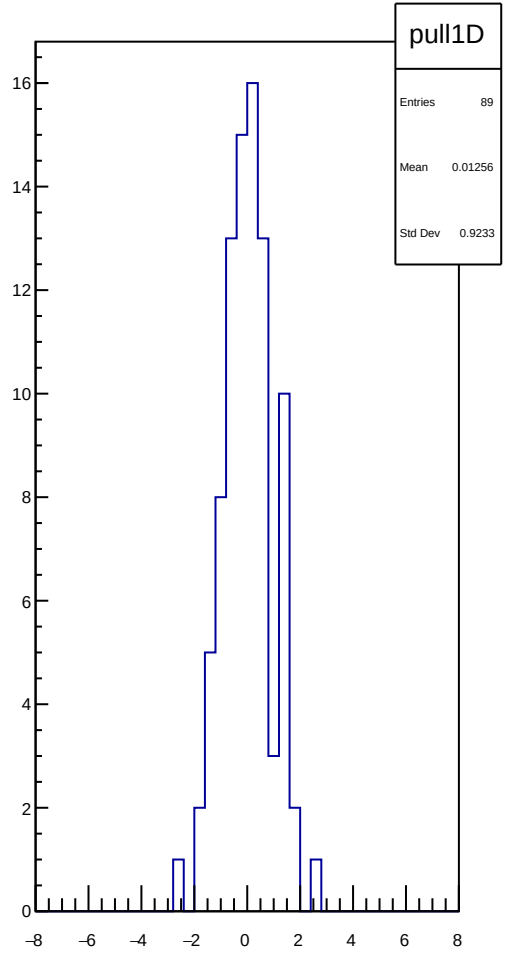

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.141e+04 / 88
p0 27.14 ± 0.0206
36
34
32
30
28
26
24

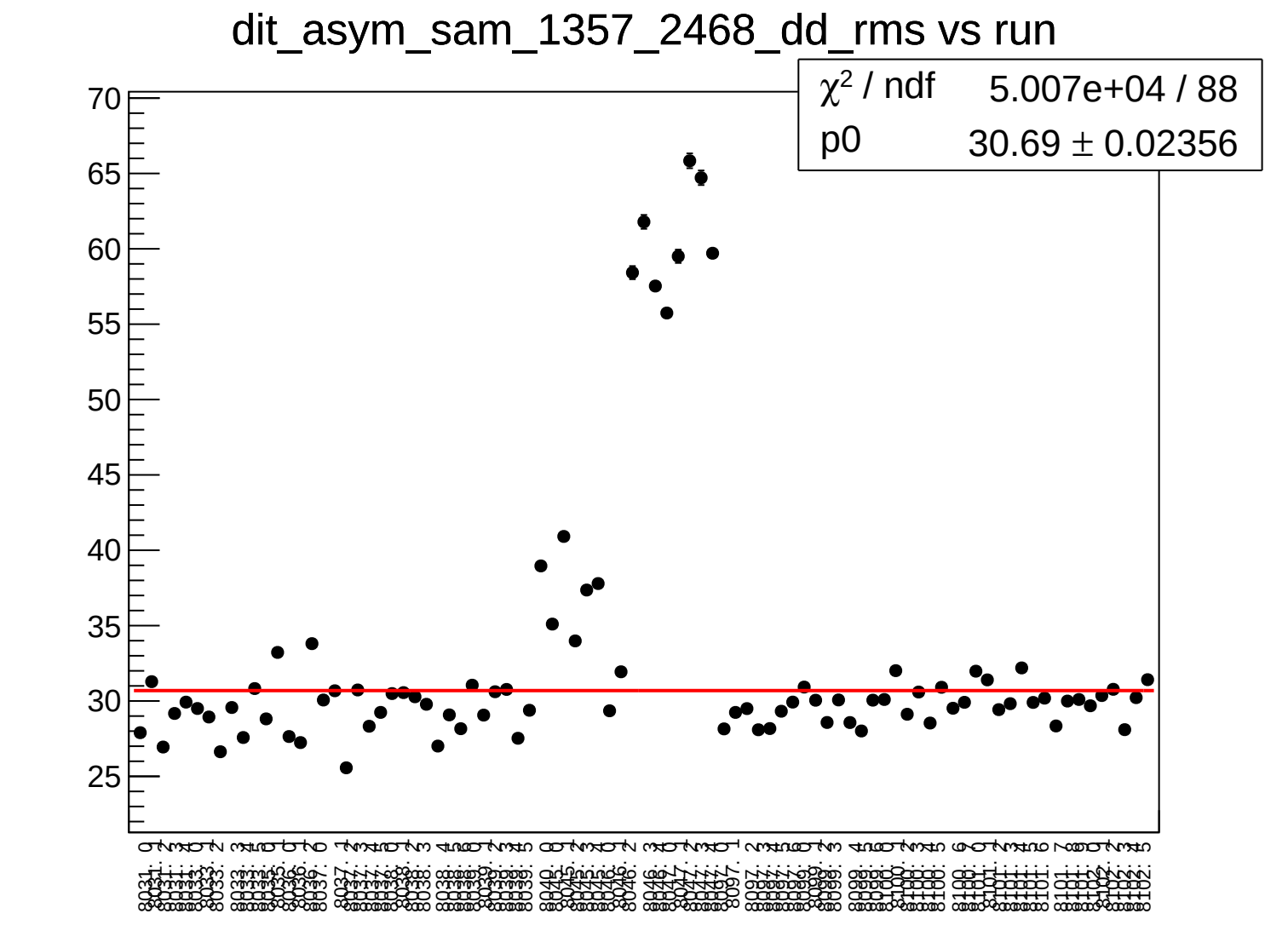

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 74.94 / 88
p0 508.9 ± 447.2
pull
Entries 89
Mean 927
Std Dev 0

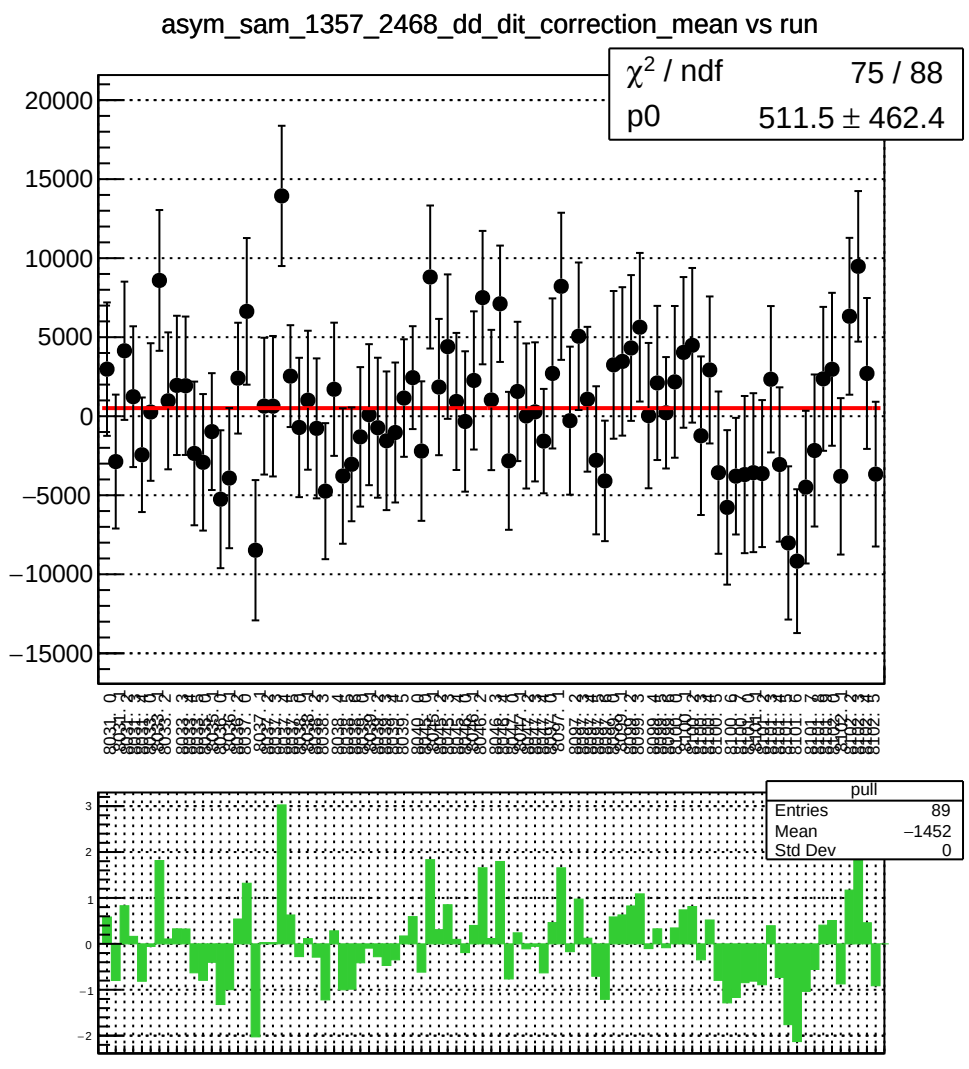

pull1D
Entries 89
Mean −0.001958
Std Dev 0.9176

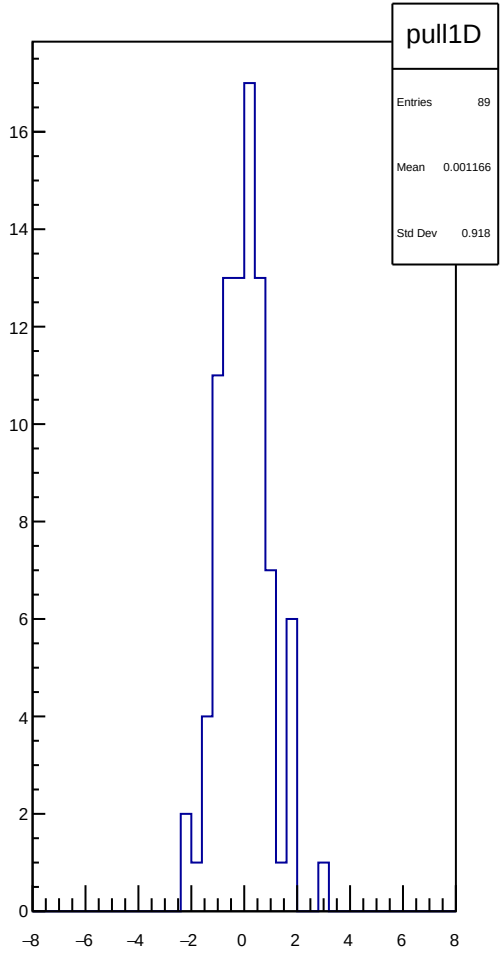

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 7002 / 88
p0 417.2 ± 0.3162
480
460
440
420
400
380
360
340

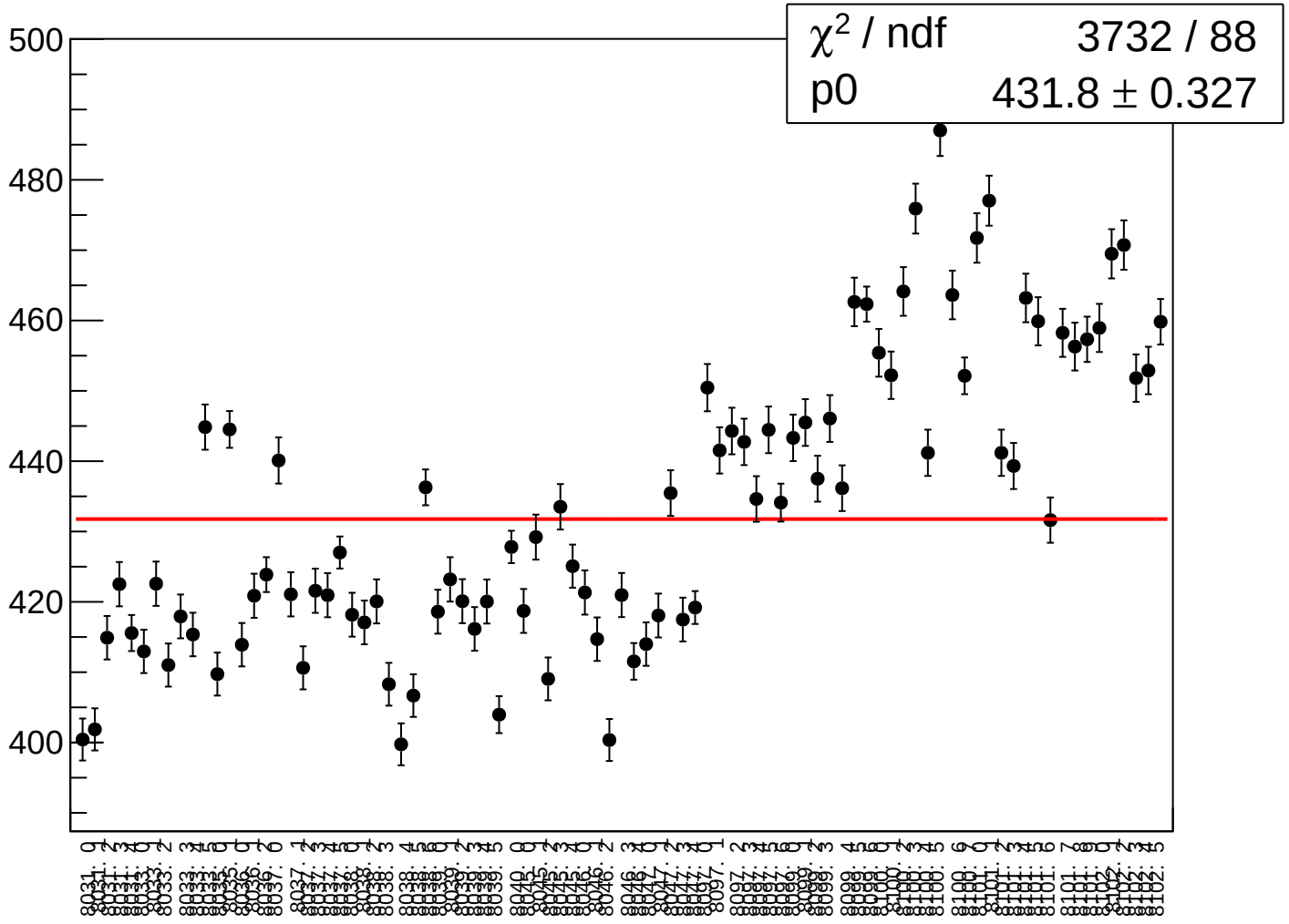

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 75.89 / 88
p0 −8.947 ± 33.31
1500
1000
500
0
−500
−1000
pull
Entries 89
Mean 205.9
Std Dev 0
2
1
0
−1
−2

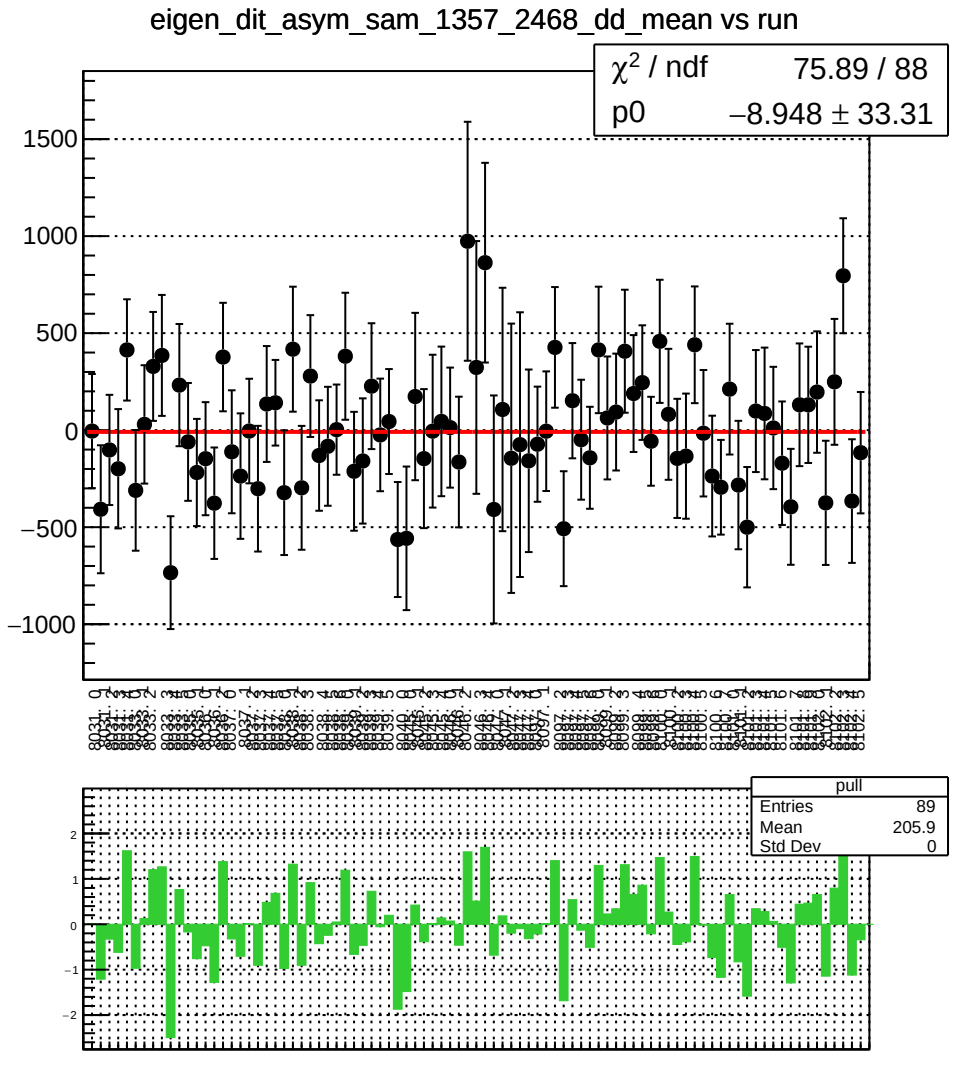

pull1D
Entries 89
Mean 0.01256
Std Dev 0.9233
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

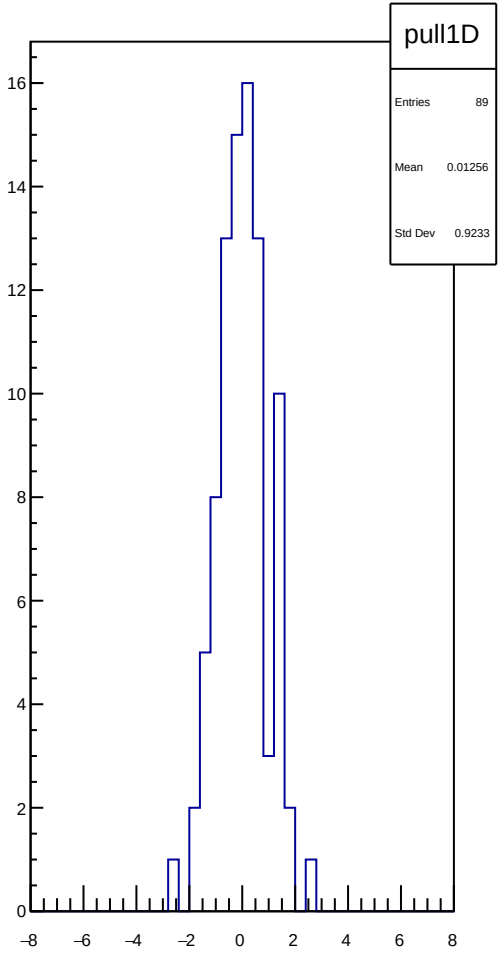

dit_asym_sam_1357_2468_dd_rms vs run
$\chi^2$ / ndf 5.007e+04 / 88
p0 30.69 ± 0.02356
70
65
60
55
50
45
40
35
30
25

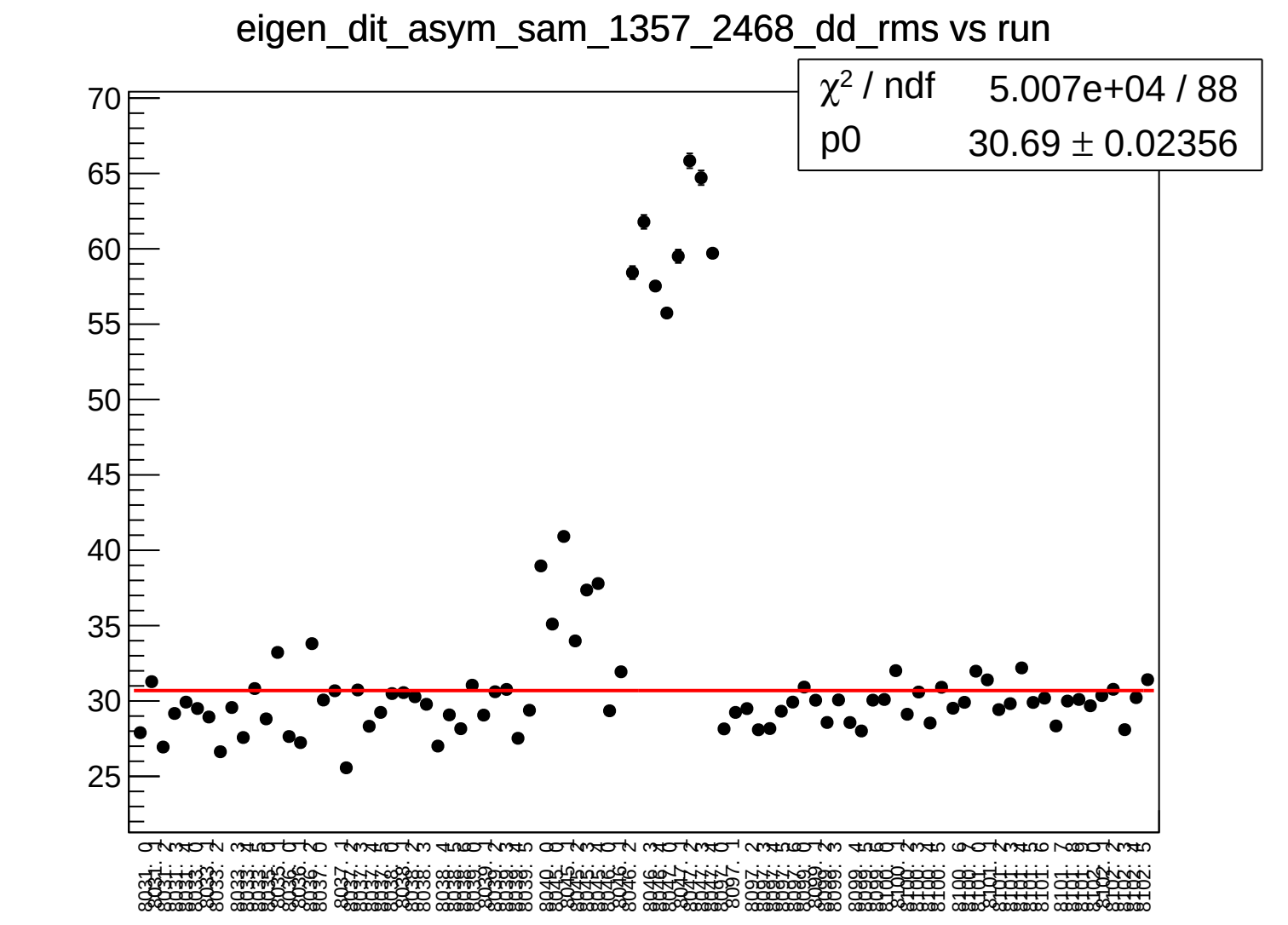

asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 75 / 88
p0 511.5 ± 462.4
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −1452
Std Dev 0
3
2
1
0
−1
−2

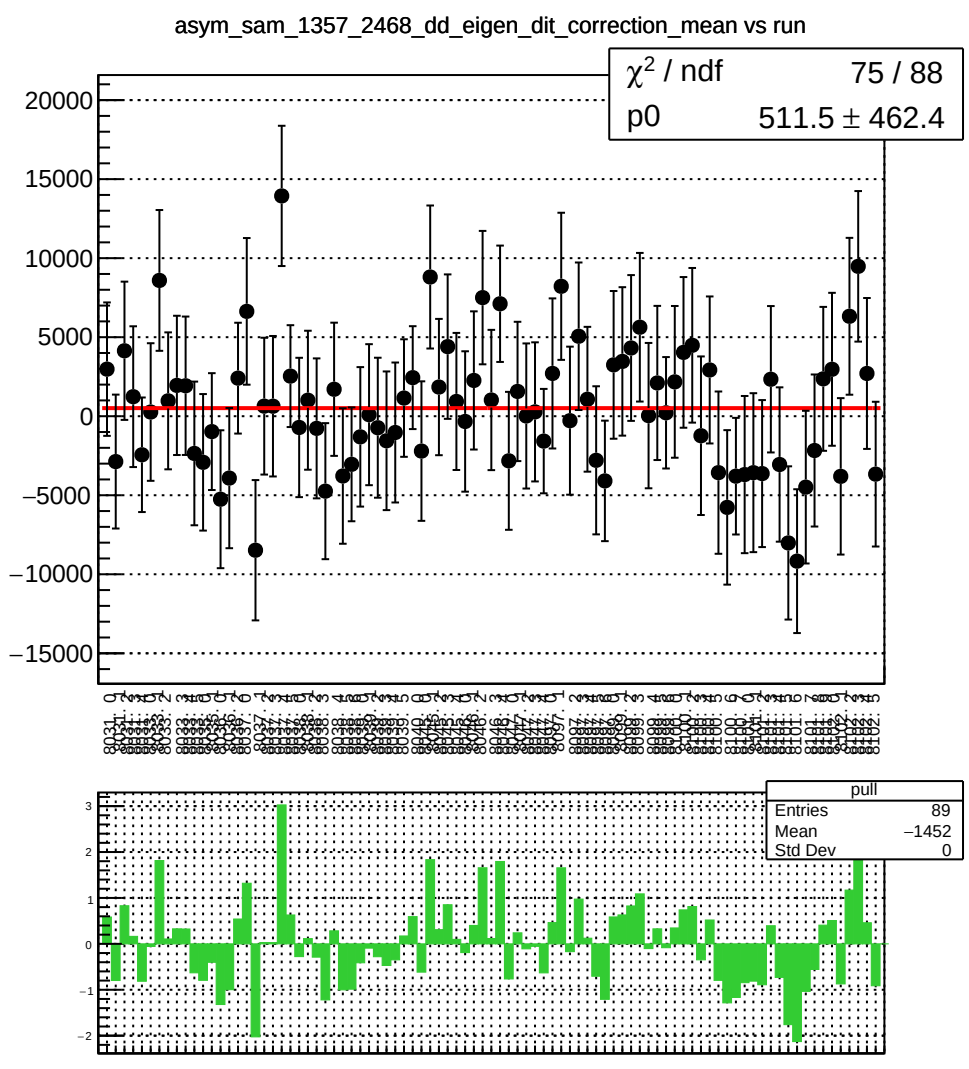

pull1D
Entries 89
Mean 0.001166
Std Dev 0.918
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

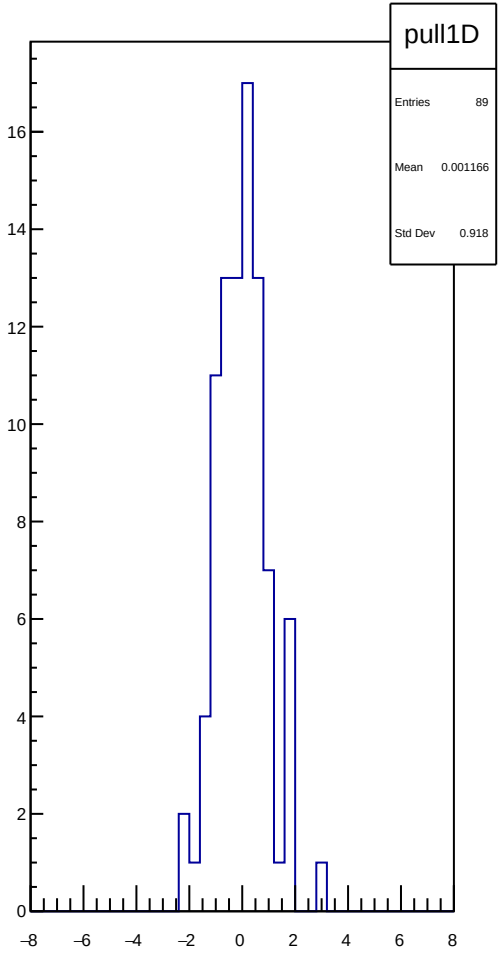

asym_sam_1357_2468_dd_dit_correction_rms vs run
χ² / ndf 3732 / 88
p0 431.8 ± 0.327
500
480
460
440
420
400

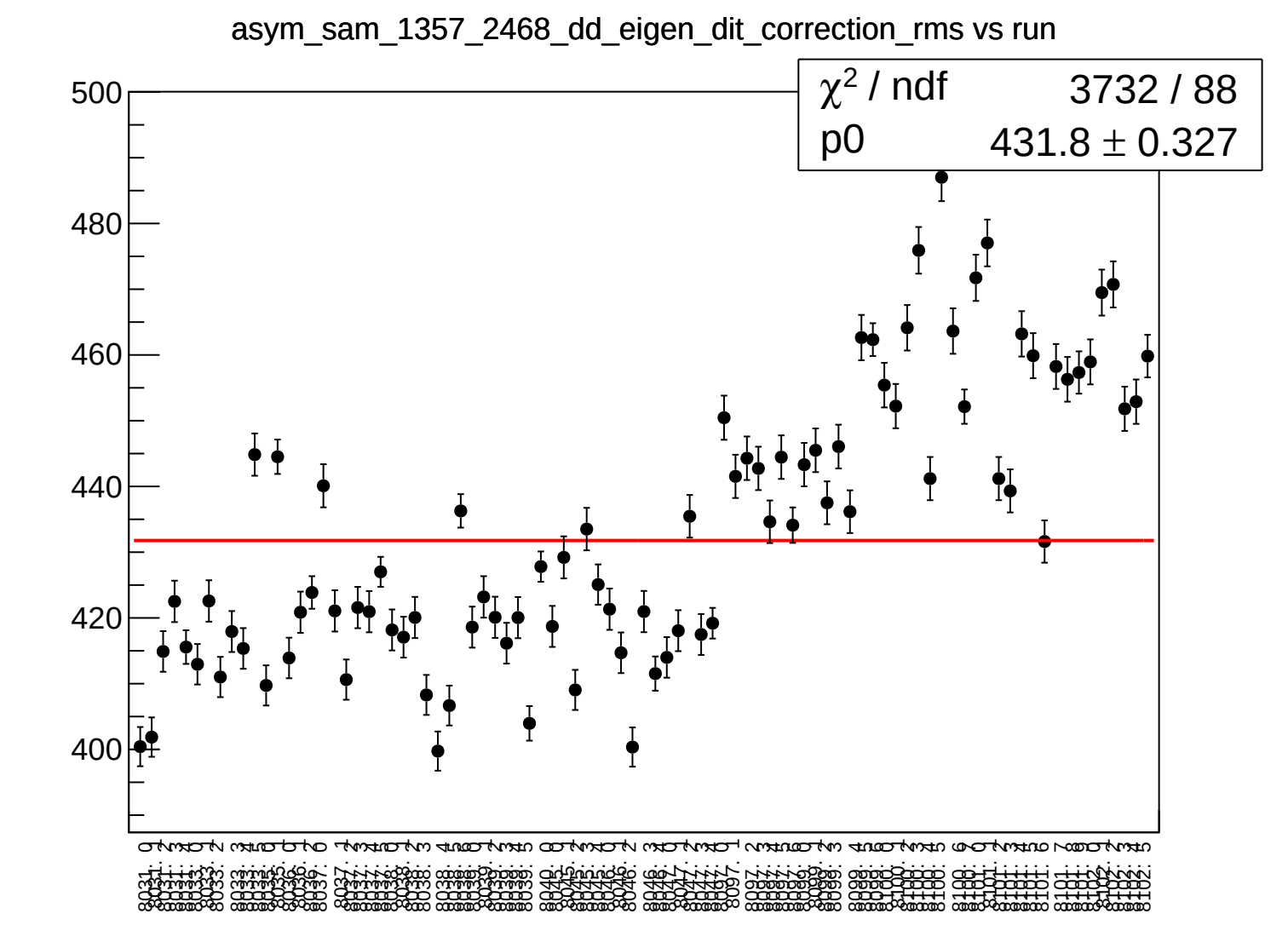

eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 75.89 / 88
p0 −8.948 ± 33.31
1500
1000
500
0
−500
−1000
pull
Entries 89
Mean 205.9
Std Dev 0
2
1
0
−1
−2

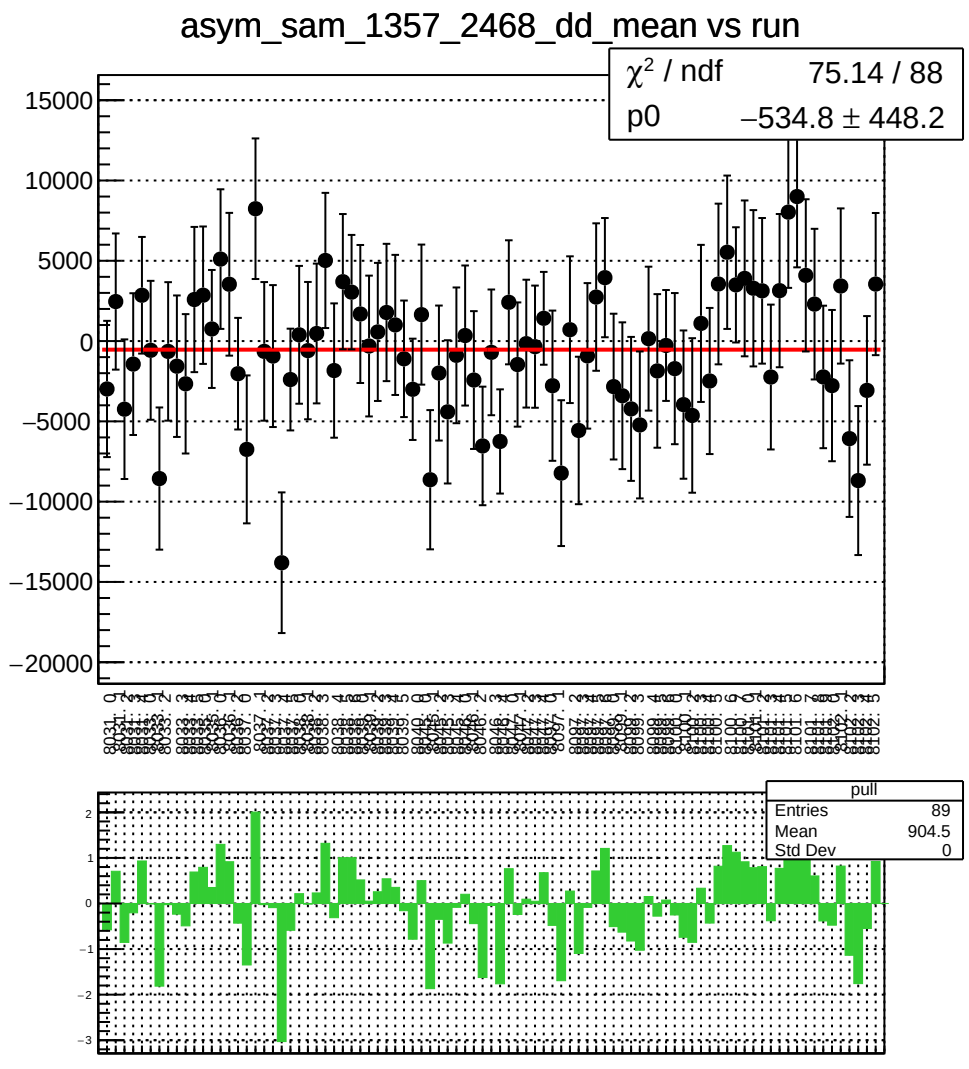

pull1D
Entries 89
Mean 0.01256
Std Dev 0.9233
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

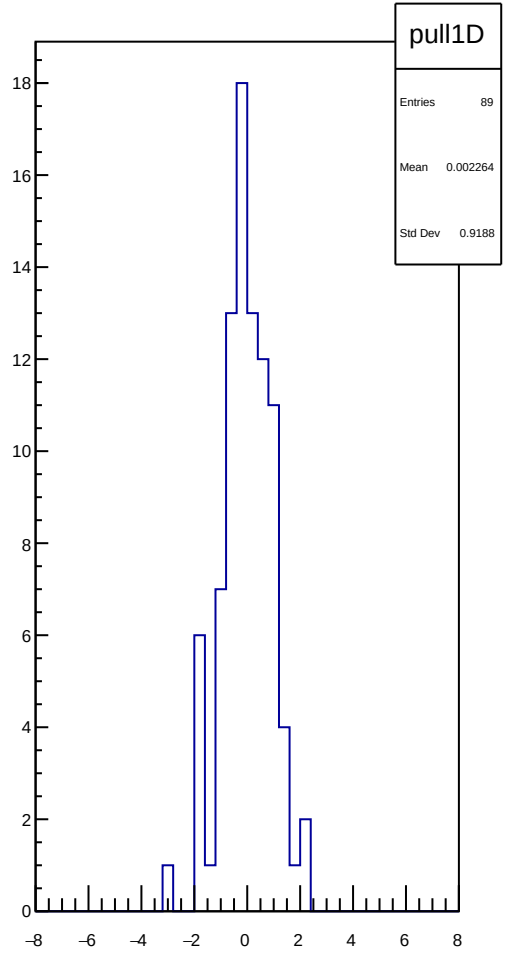

eigen_dit_asym_sam_1357_2468_dd_rms vs run
$\chi^2$ / ndf 5.007e+04 / 88
p0 30.69 ± 0.02356
70
65
60
55
50
45
40
35
30
25

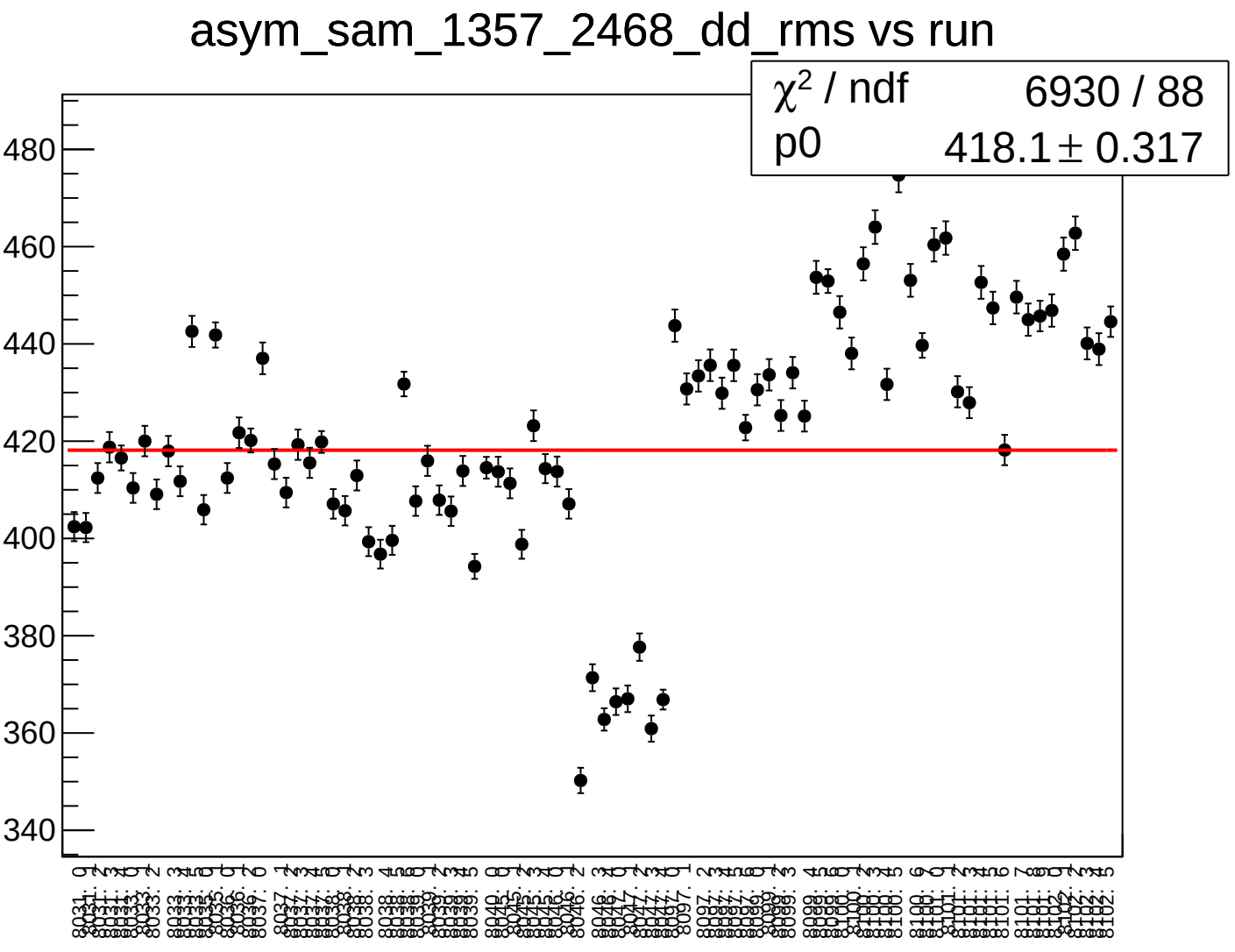

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 75 / 88
p0 511.5 ± 462.4
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −1452
Std Dev 0
3
2
1
0
−1
−2

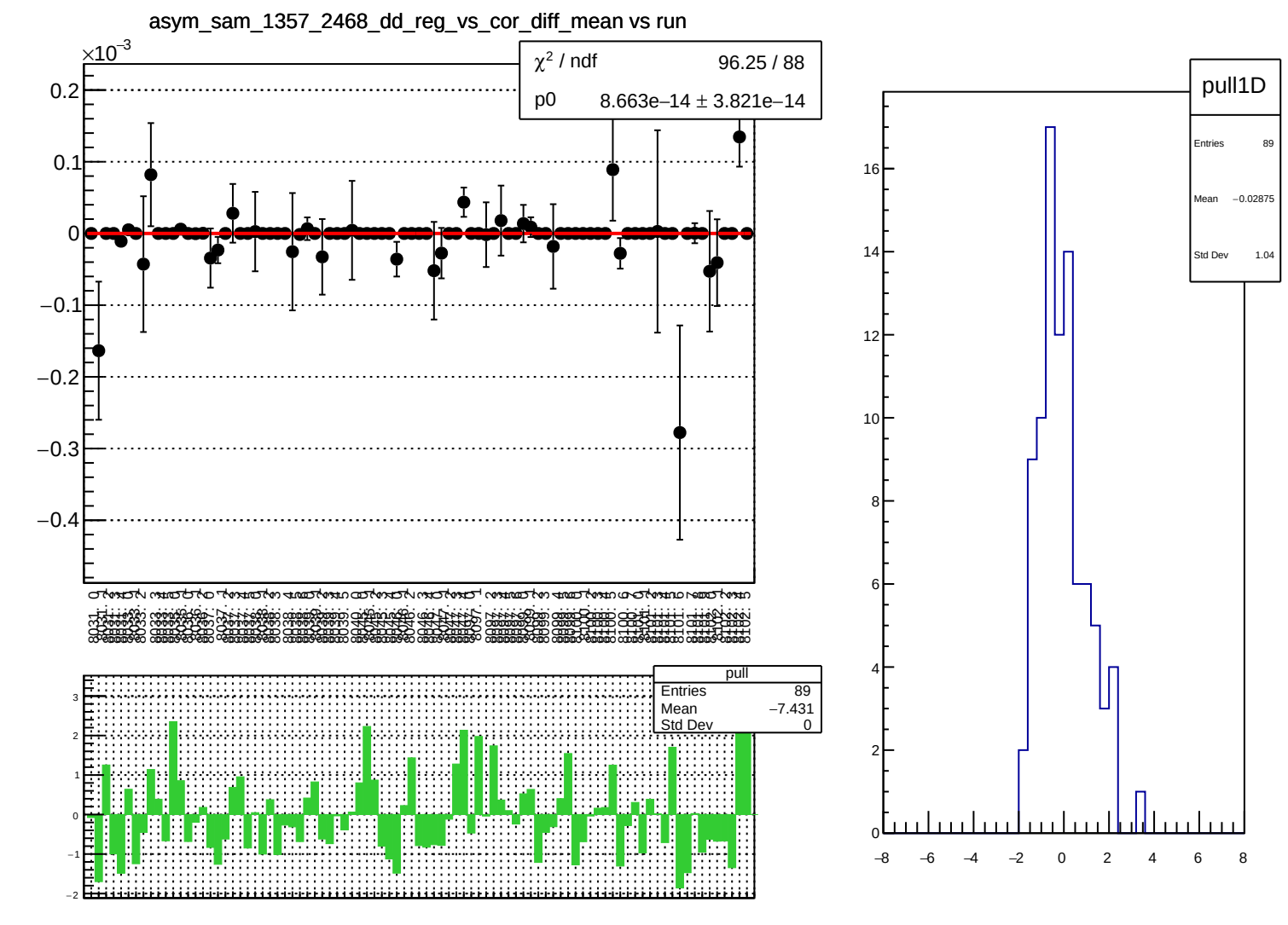

pull1D
Entries 89
Mean 0.001166
Std Dev 0.918
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

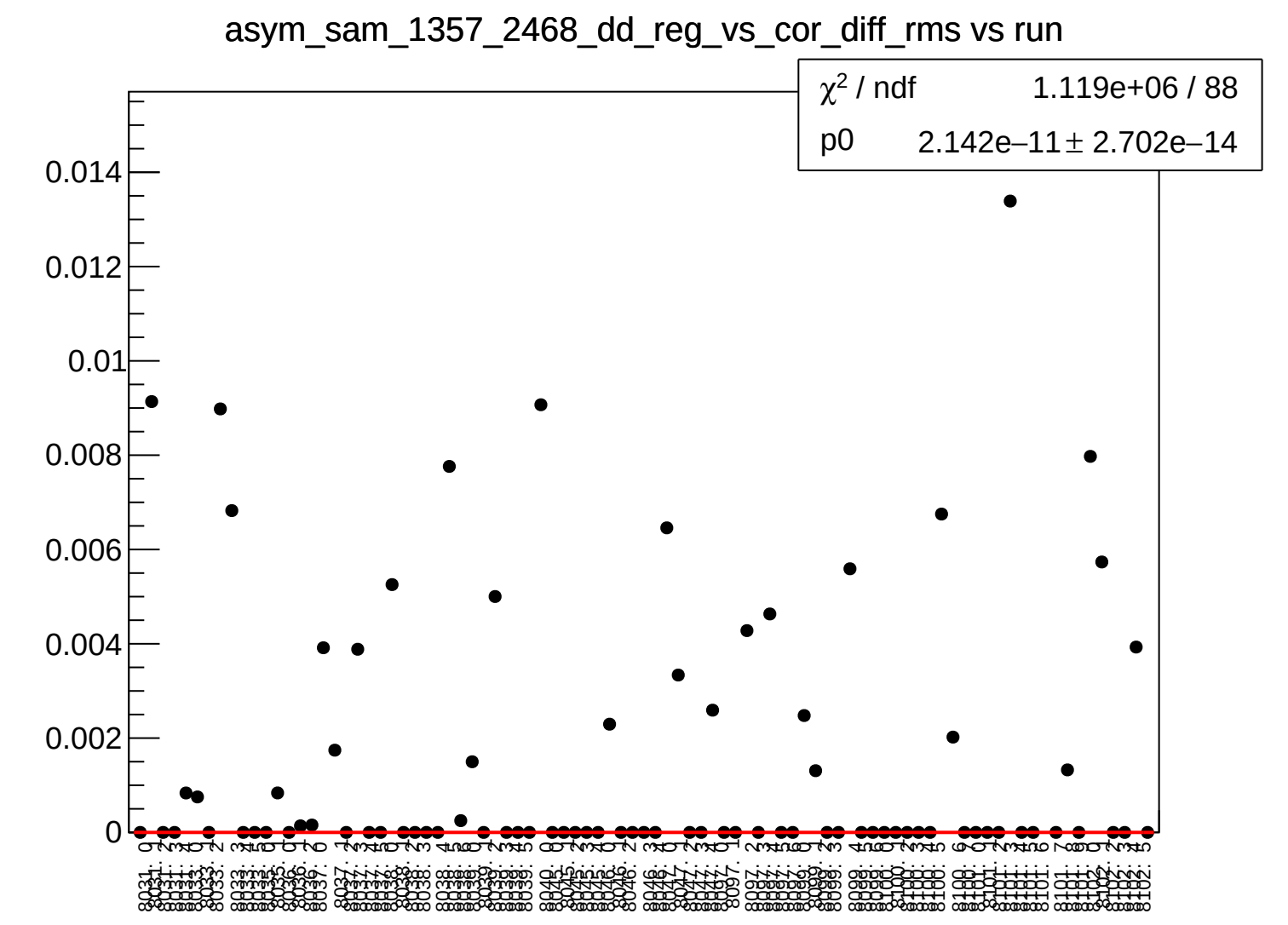

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 3732 / 88
p0 431.8 ± 0.327
500
480
460
440
420
400

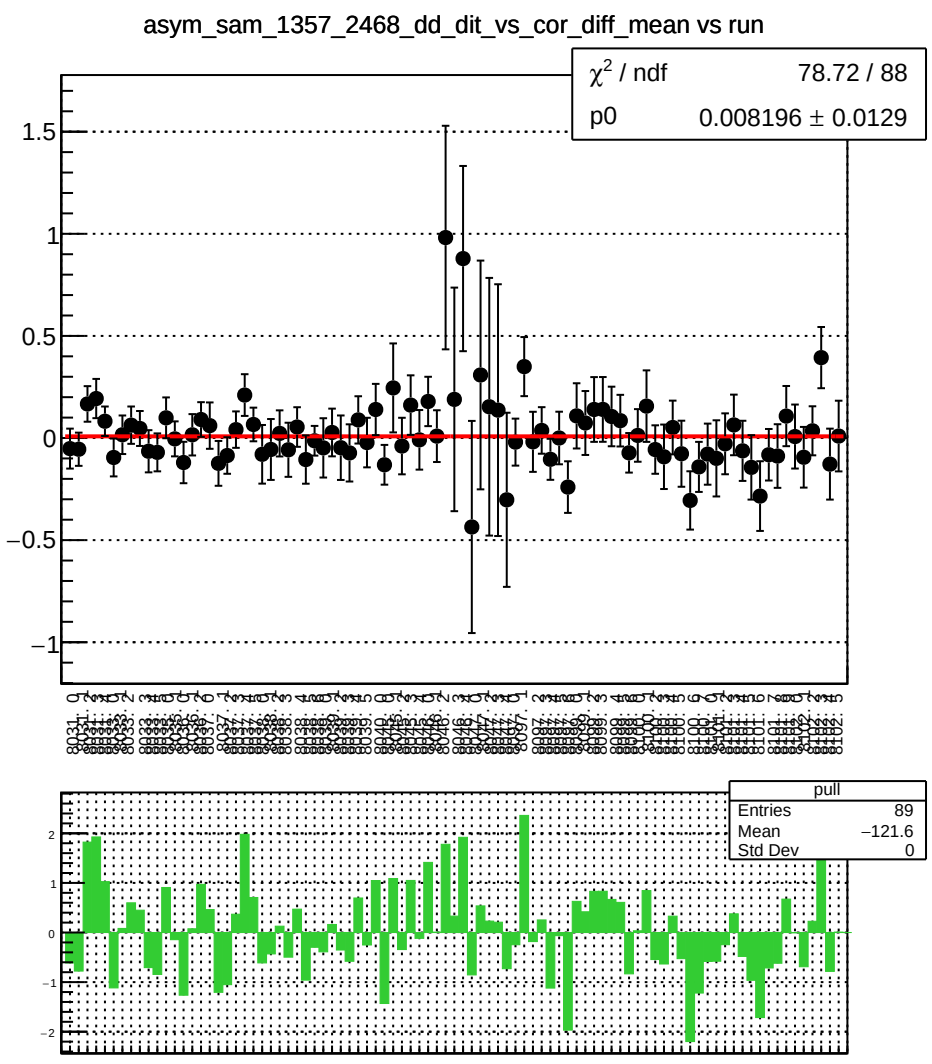

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 75.14 / 88
p0 −534.8 ± 448.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 89
Mean 904.5
Std Dev 0
2
1
0
−1
−2
−3

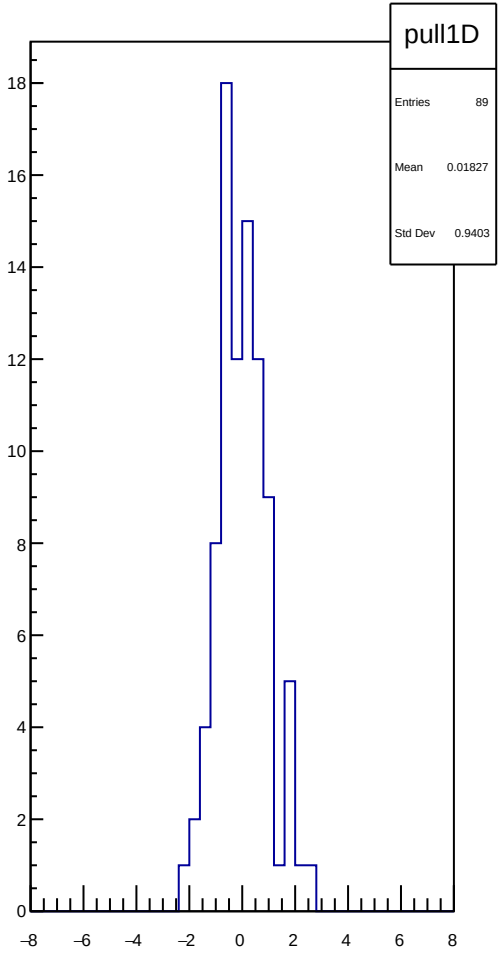

pull1D
Entries 89
Mean 0.002264
Std Dev 0.9188
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

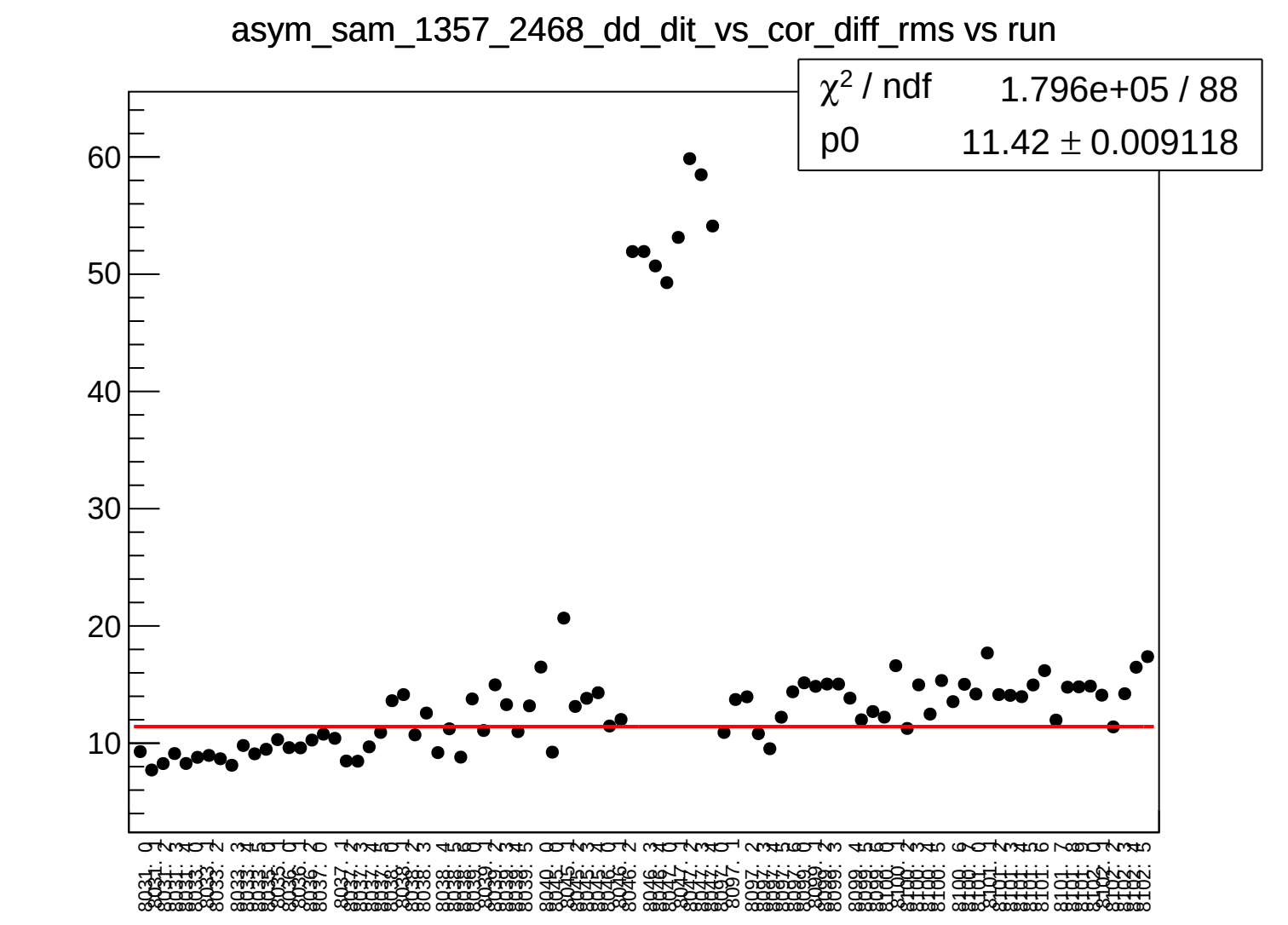

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 6930 / 88
p0 418.1 ± 0.317
480
460
440
420
400
380
360
340

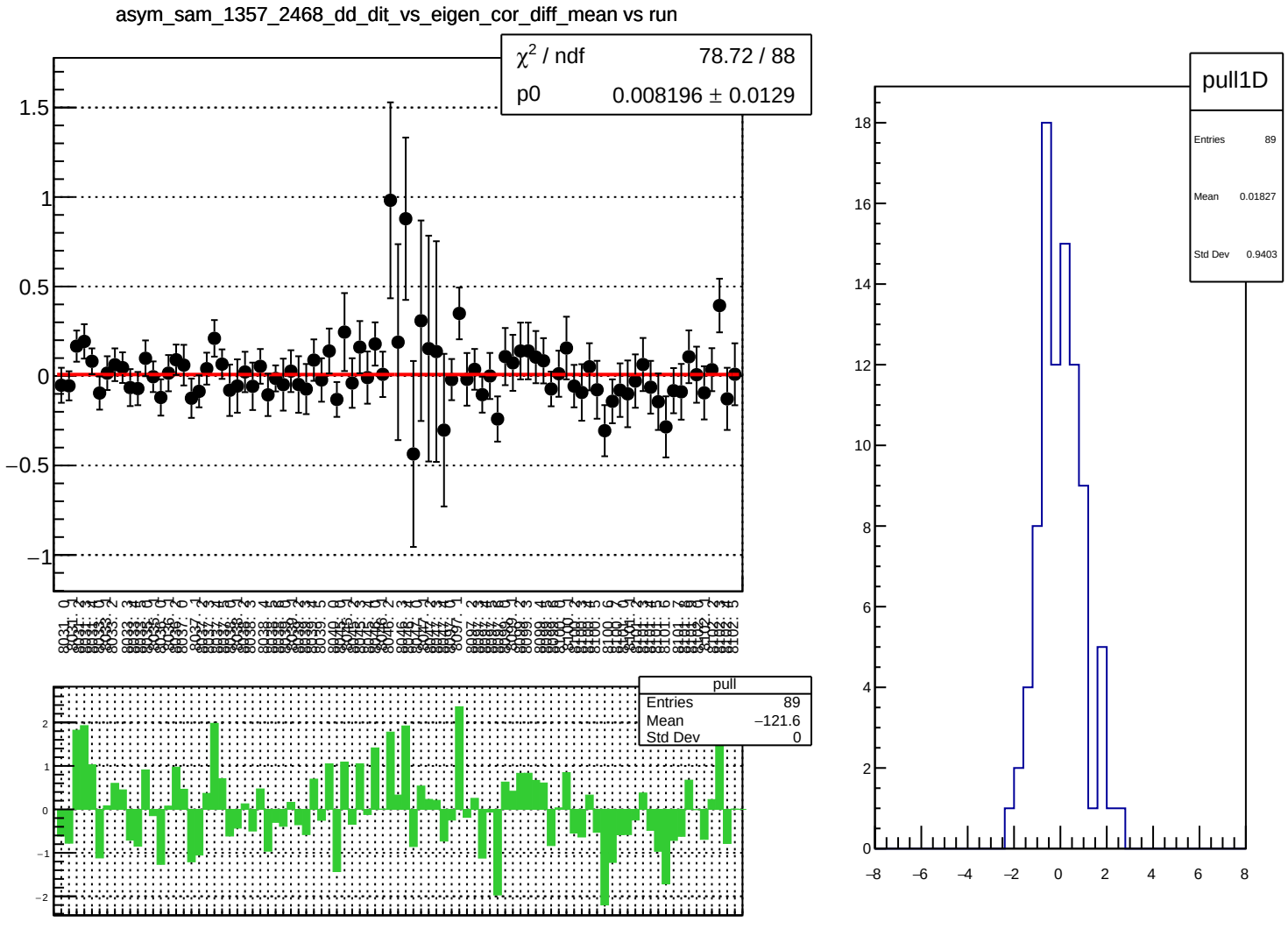

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 96.25 / 88
p0 8.663e−14 ± 3.821e−14
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull
Entries 89
Mean −7.431
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.02875
Std Dev 1.04
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

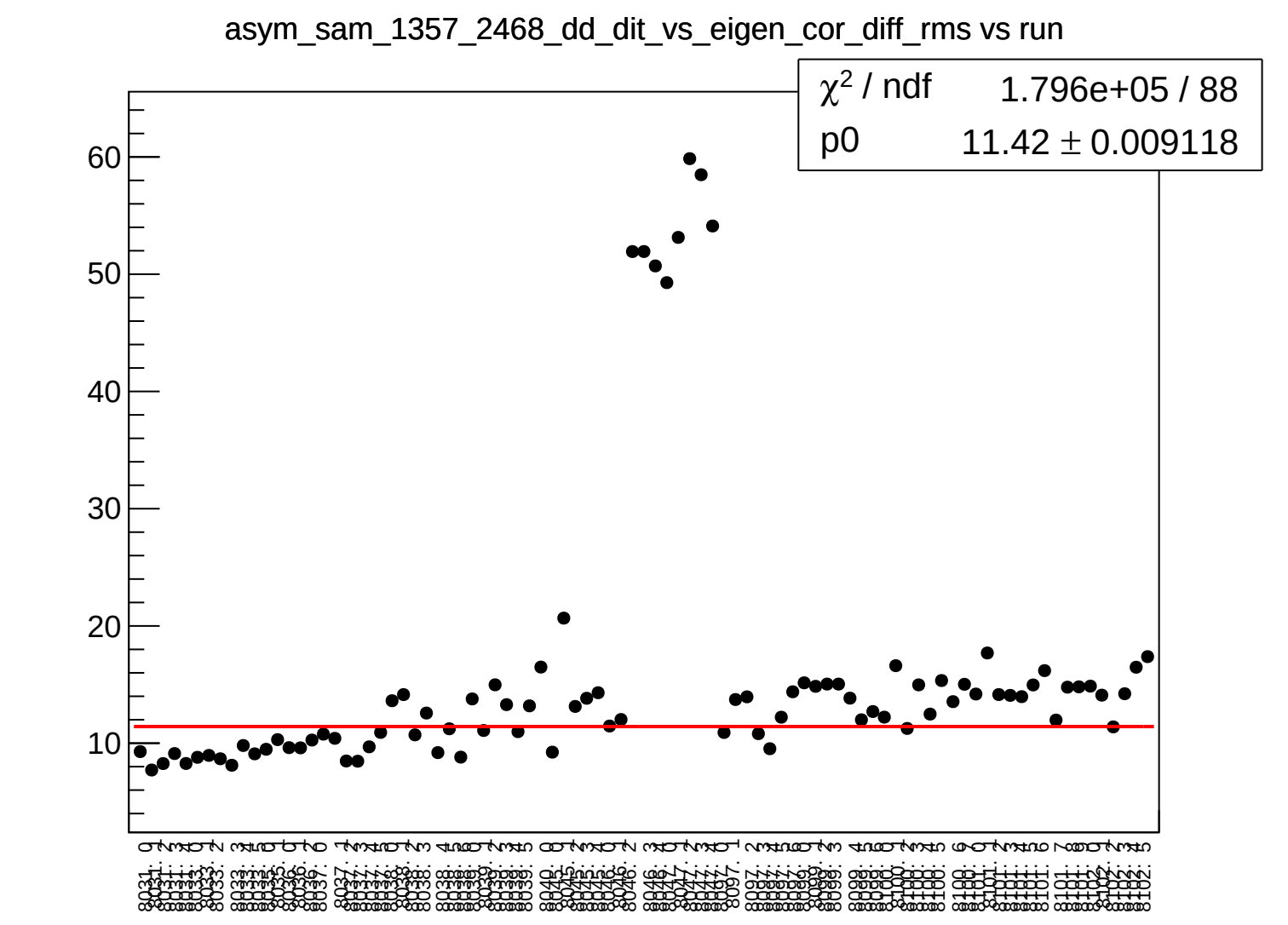

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.119e+06 / 88
p0 2.142e−11 ± 2.702e−14
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0

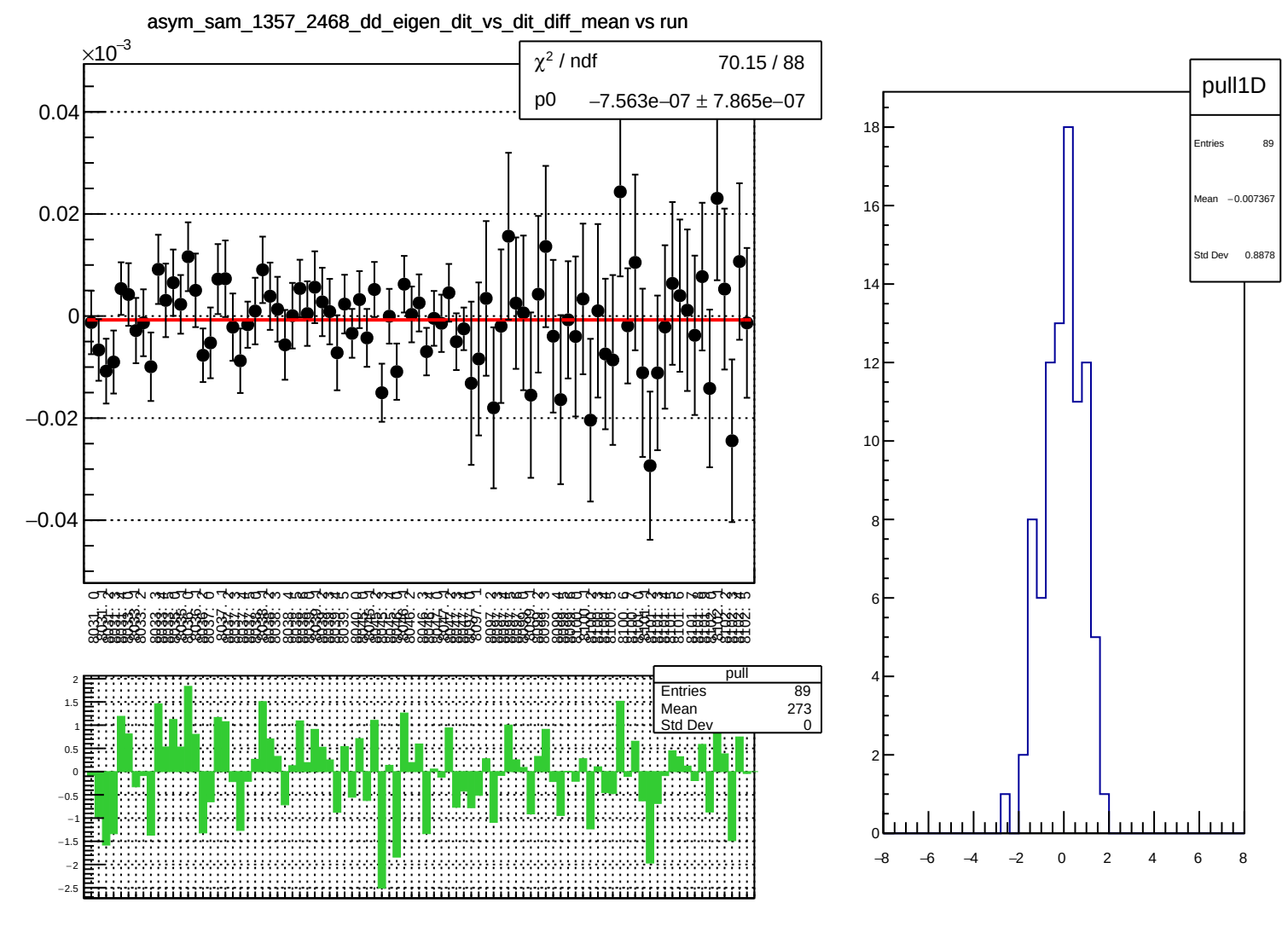

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 78.72 / 88
p0 0.008196 ± 0.0129
pull
Entries 89
Mean −121.6
Std Dev 0

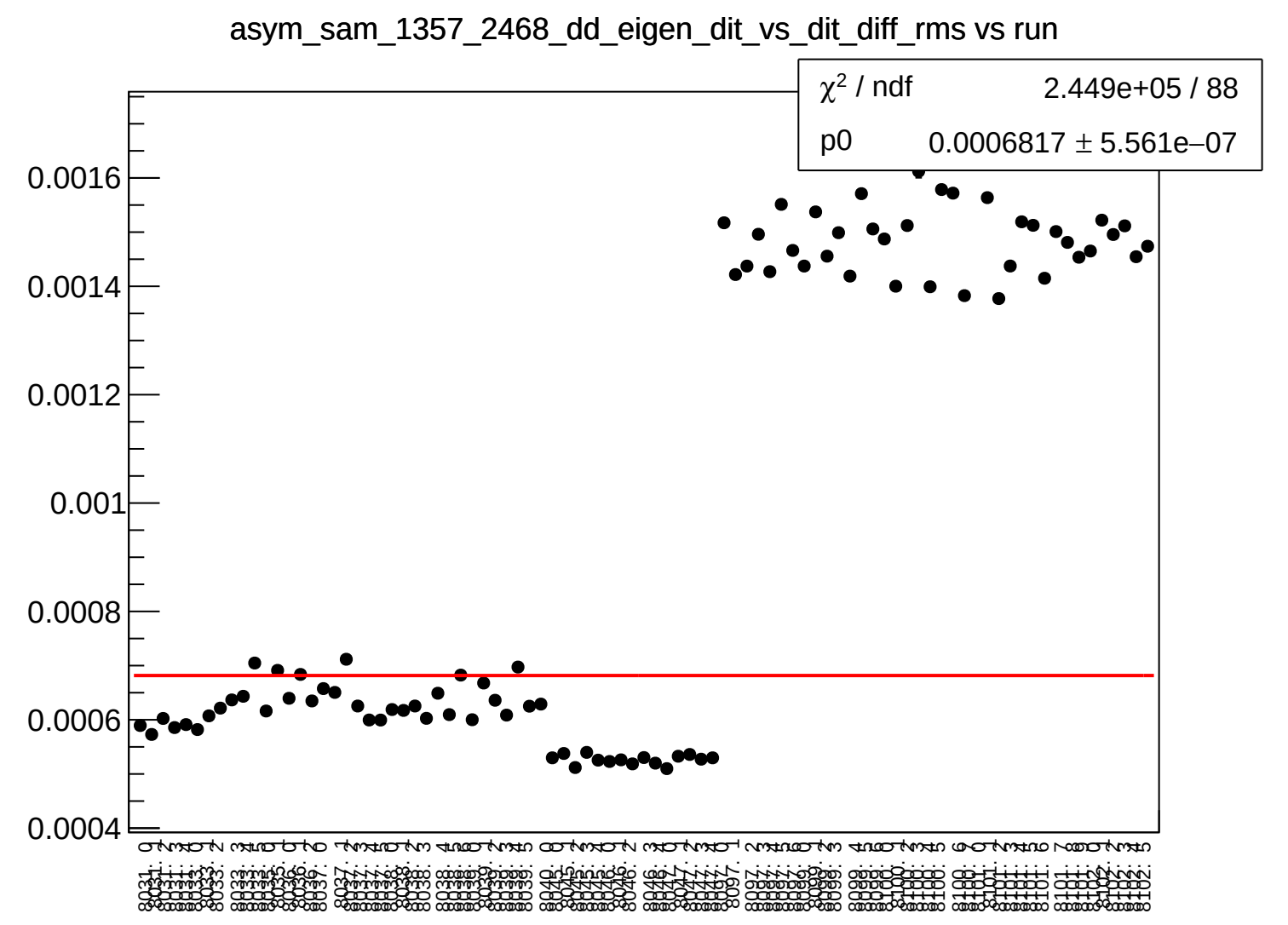

pull1D
Entries 89
Mean 0.01827
Std Dev 0.9403

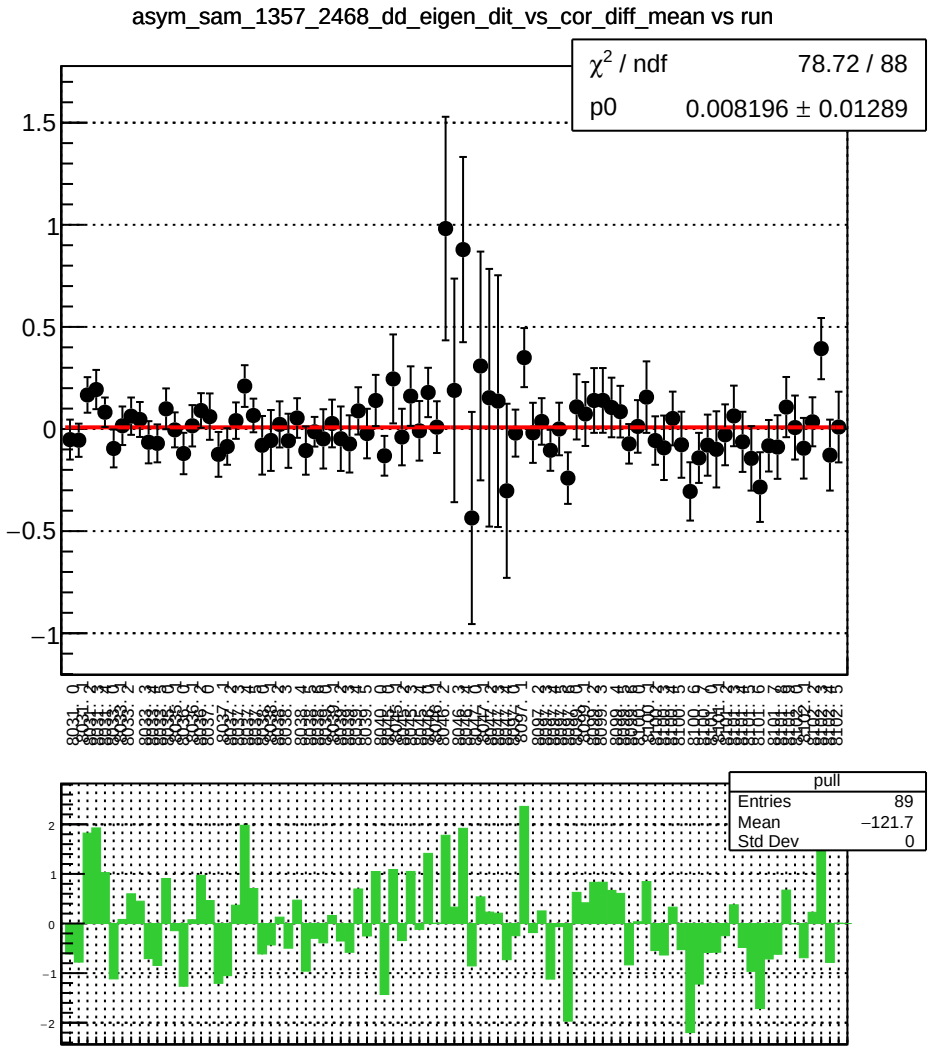

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.796e+05 / 88
p0 11.42 ± 0.009118
60
50
40
30
20
10

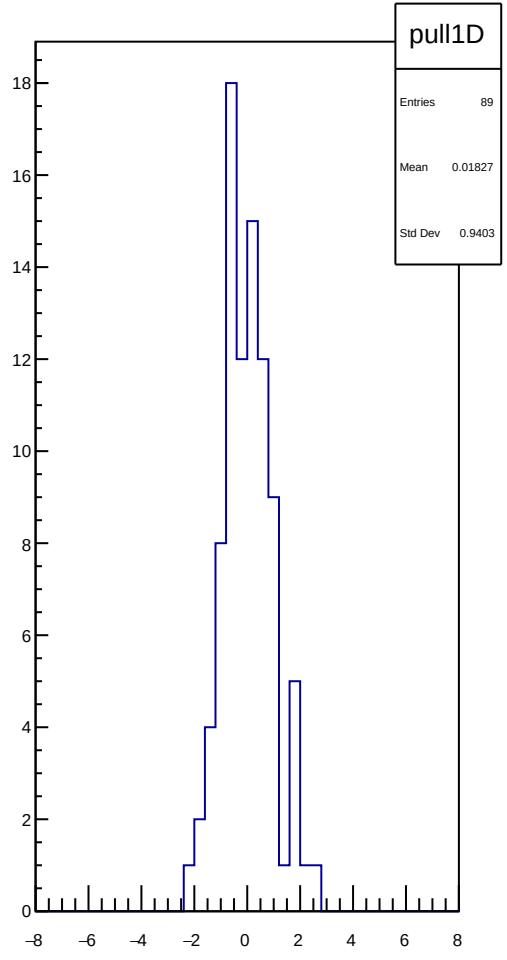

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.72 / 88
p0 0.008196 ± 0.0129
pull
Entries 89
Mean −121.6
Std Dev 0
pull1D
Entries 89
Mean 0.01827
Std Dev 0.9403

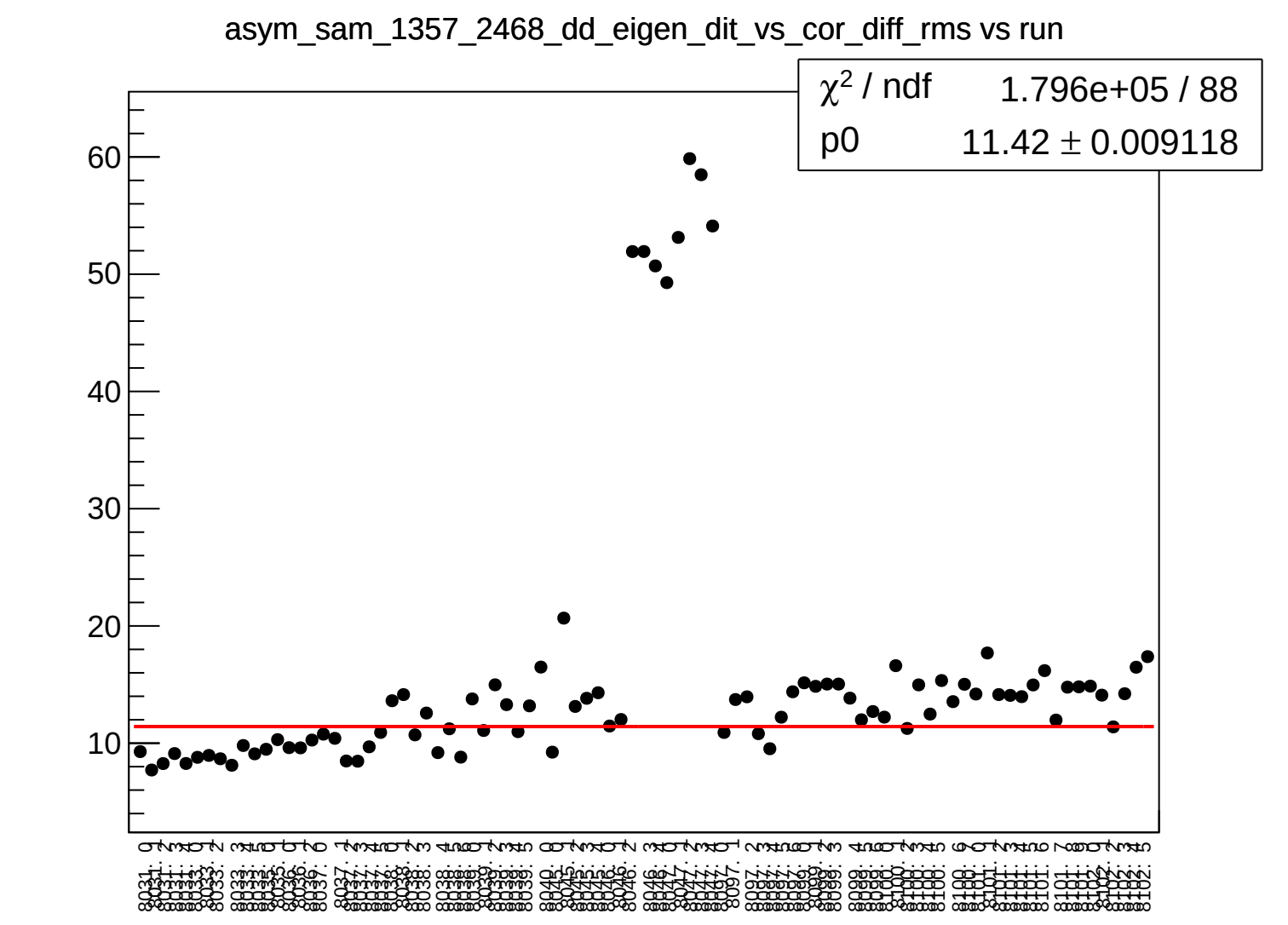

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.796e+05 / 88
p0 11.42 ± 0.009118
60
50
40
30
20
10

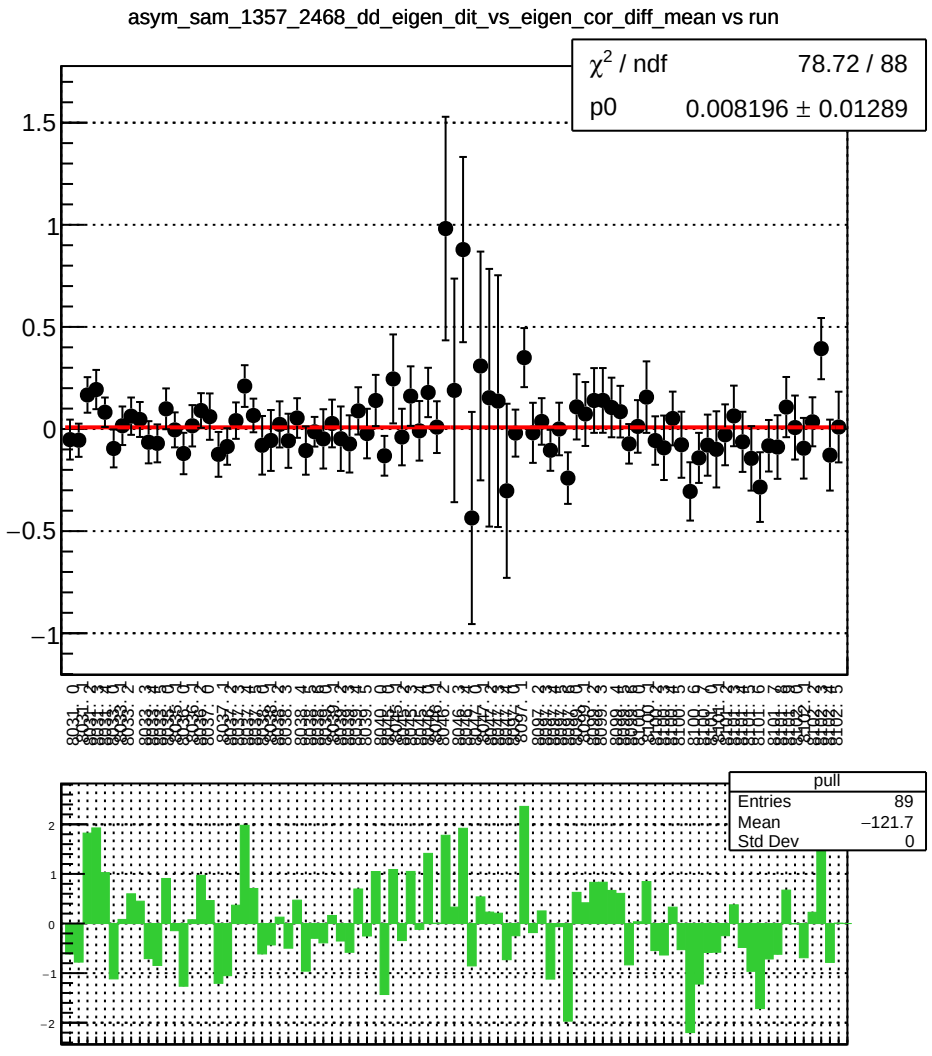

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 70.15 / 88
p0 −7.563e−07 ± 7.865e−07
0.04
0.02
0
−0.02
−0.04
pull
Entries 89
Mean 273
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 89
Mean −0.007367
Std Dev 0.8878
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

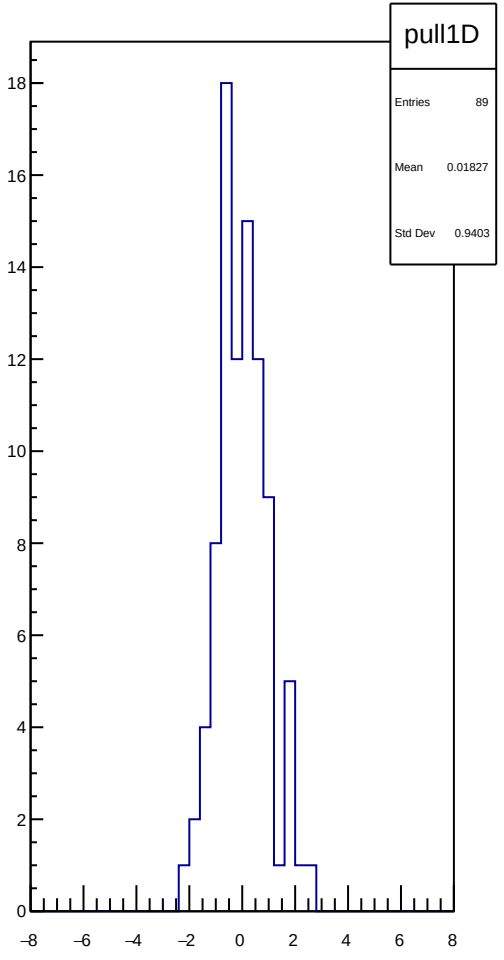

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.449e+05 / 88
p0 0.0006817 ± 5.561e−07
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004

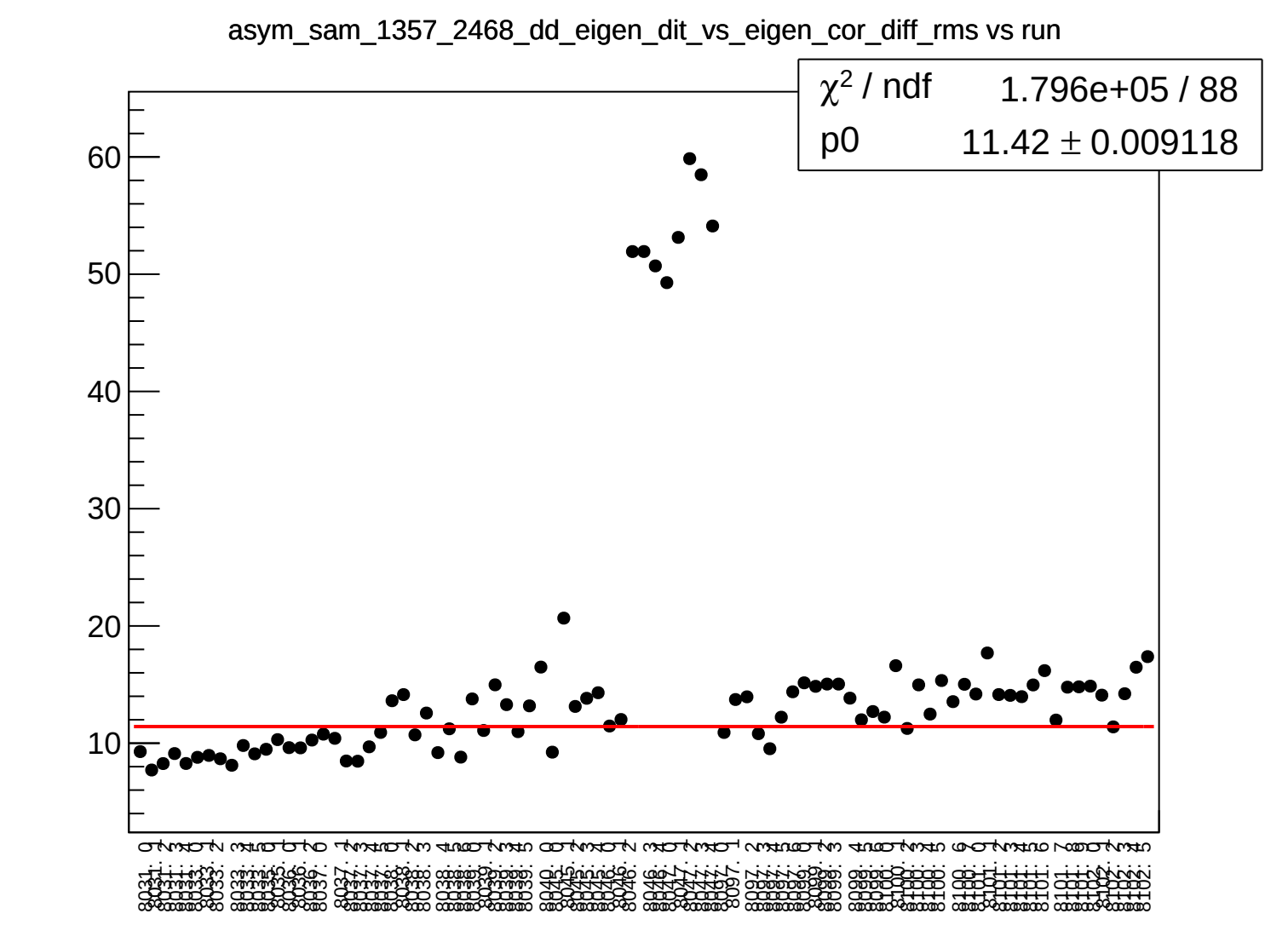

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.72 / 88
p0 0.008196 ± 0.01289
pull
Entries 89
Mean −121.7
Std Dev 0

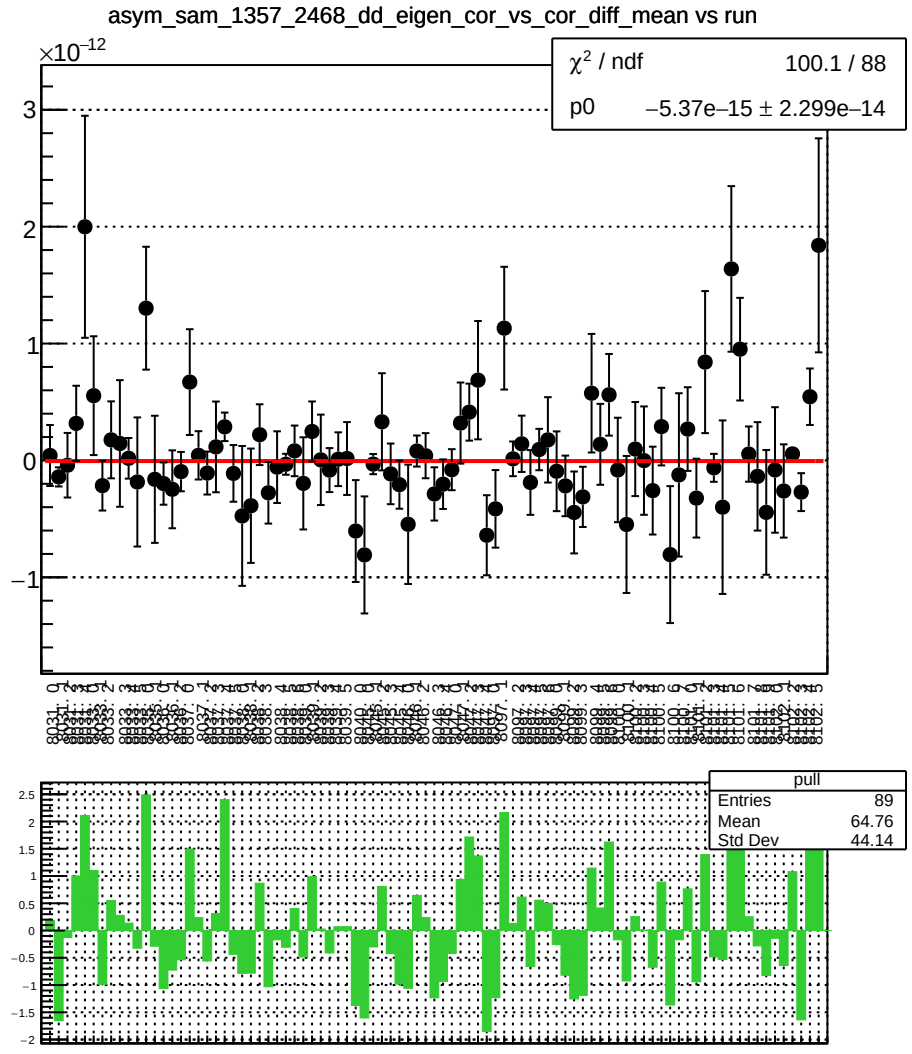

pull1D
Entries 89
Mean 0.01827
Std Dev 0.9403

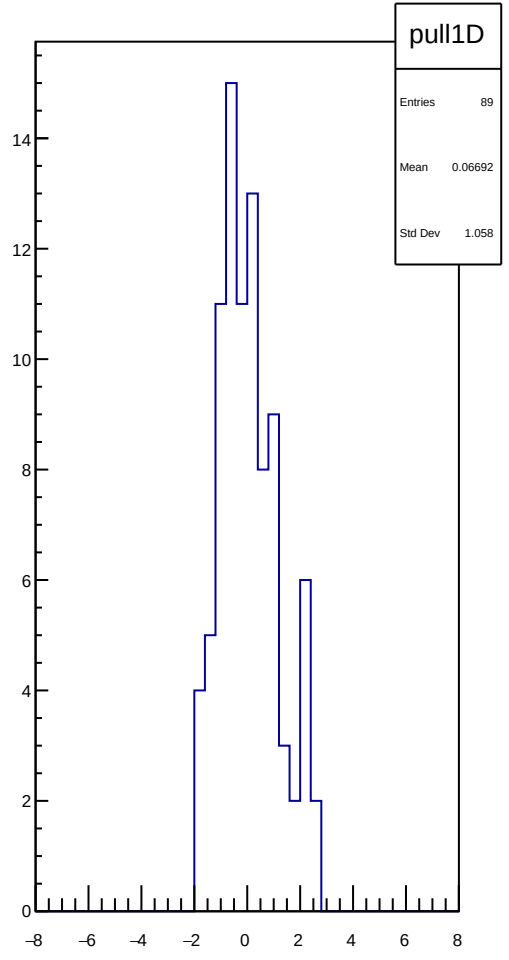

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.796e+05 / 88
p0 11.42 ± 0.009118
60
50
40
30
20
10

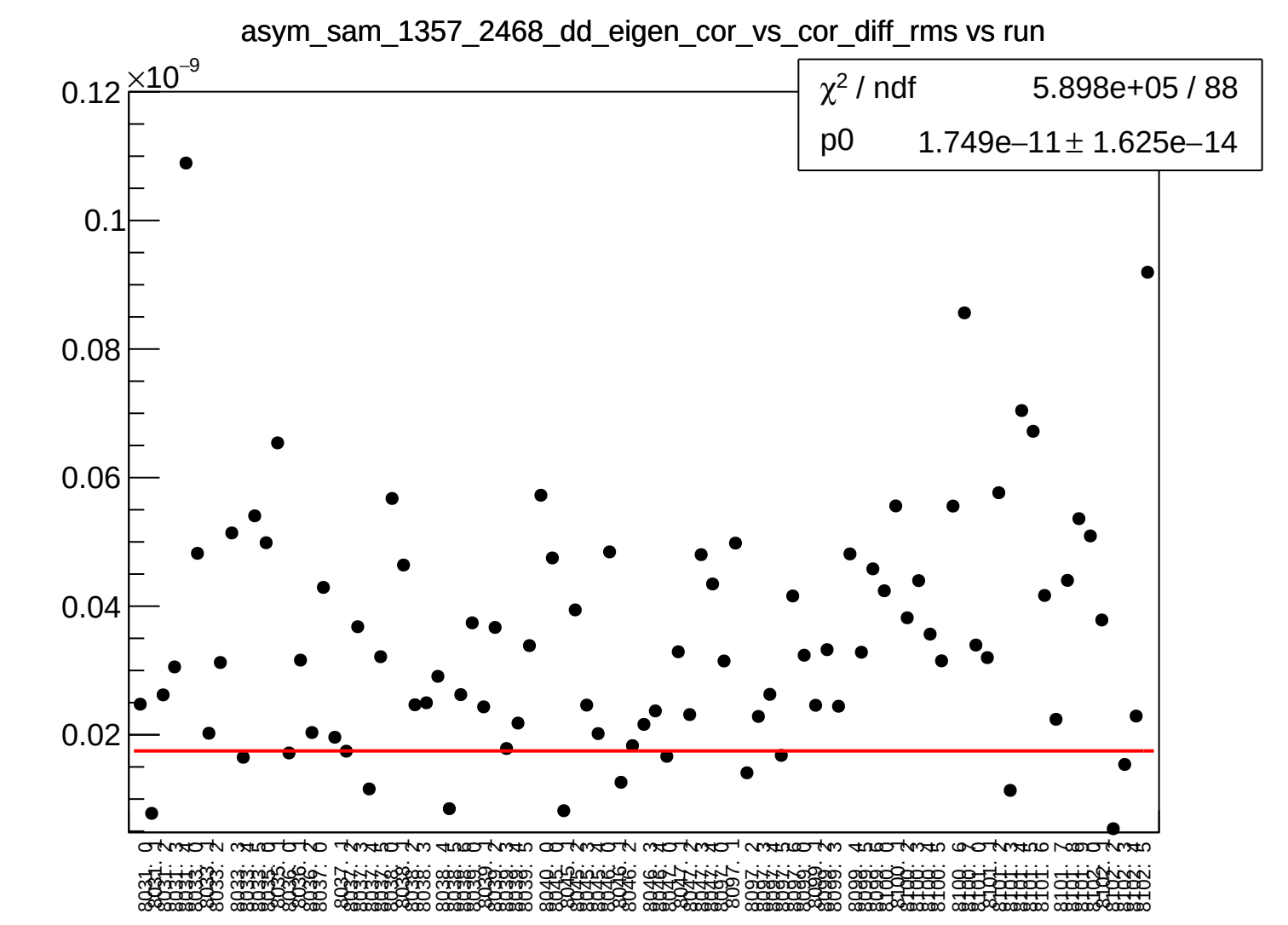

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.72 / 88
p0 0.008196 ± 0.01289
pull
Entries 89
Mean −121.7
Std Dev 0

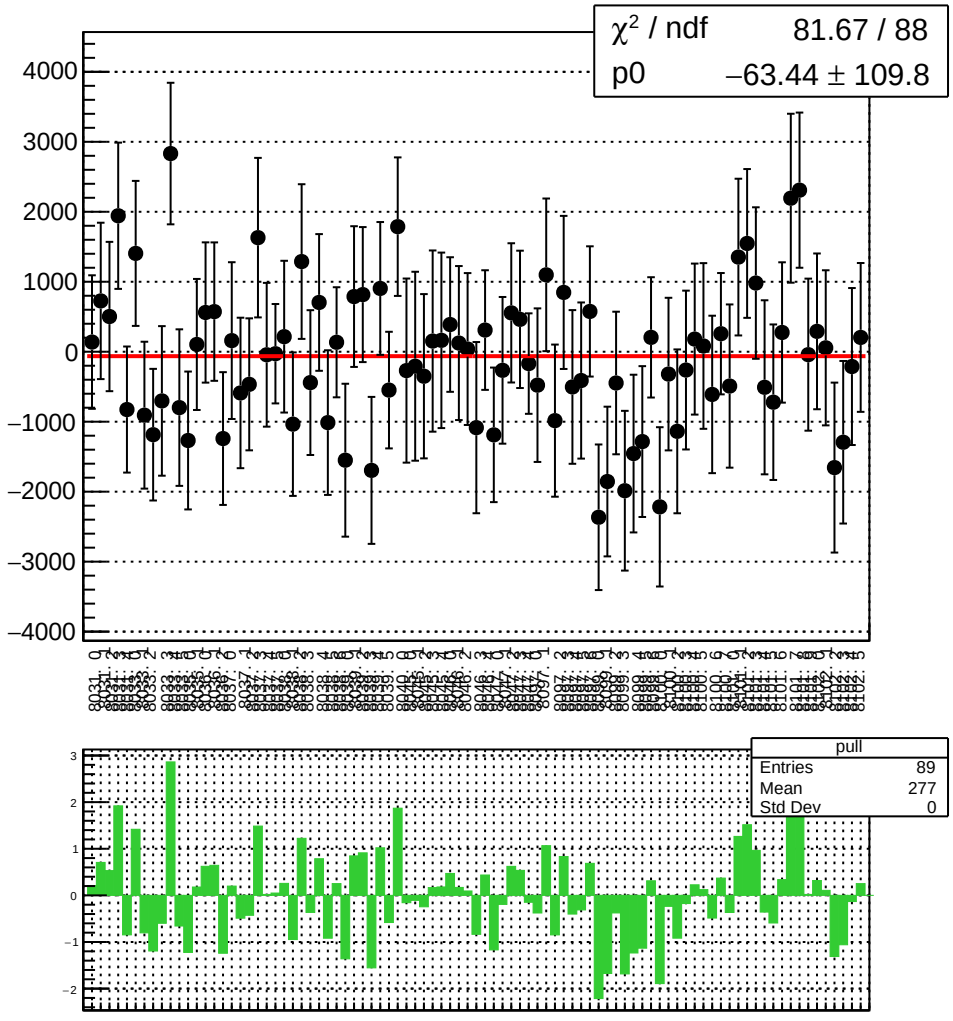

pull1D
Entries 89
Mean 0.01827
Std Dev 0.9403

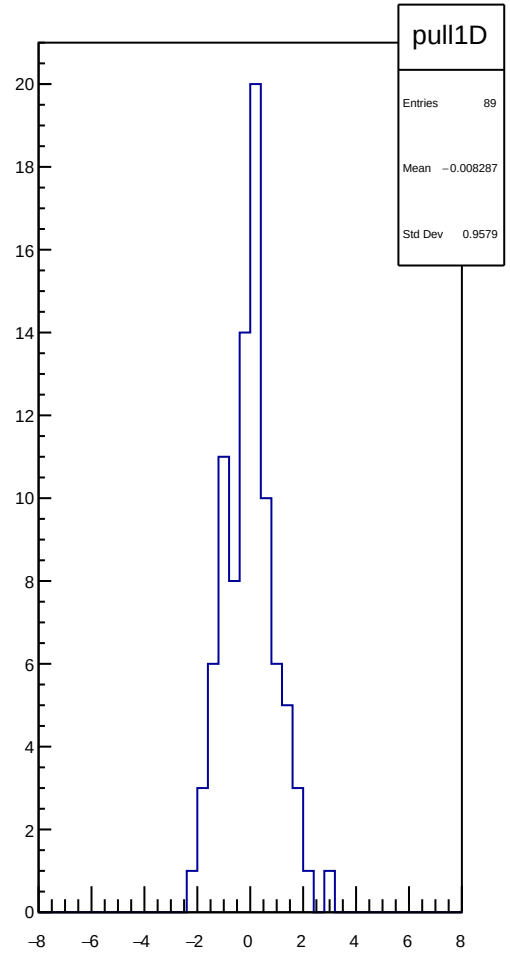

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.796e+05 / 88
p0 11.42 ± 0.009118
60
50
40
30
20
10

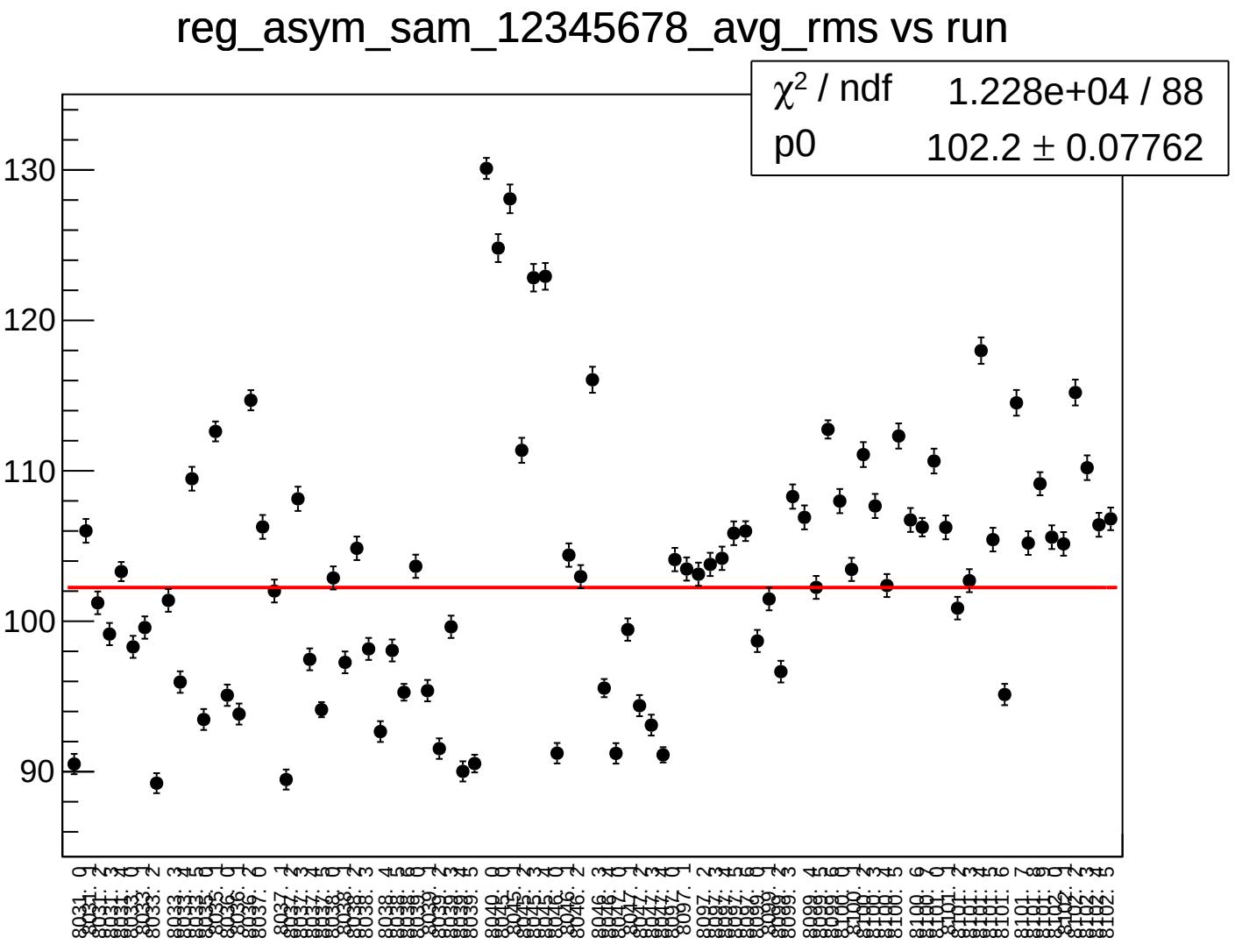

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 100.1 / 88
p0 −5.37e−15 ± 2.299e−14
pull
Entries 89
Mean 64.76
Std Dev 44.14

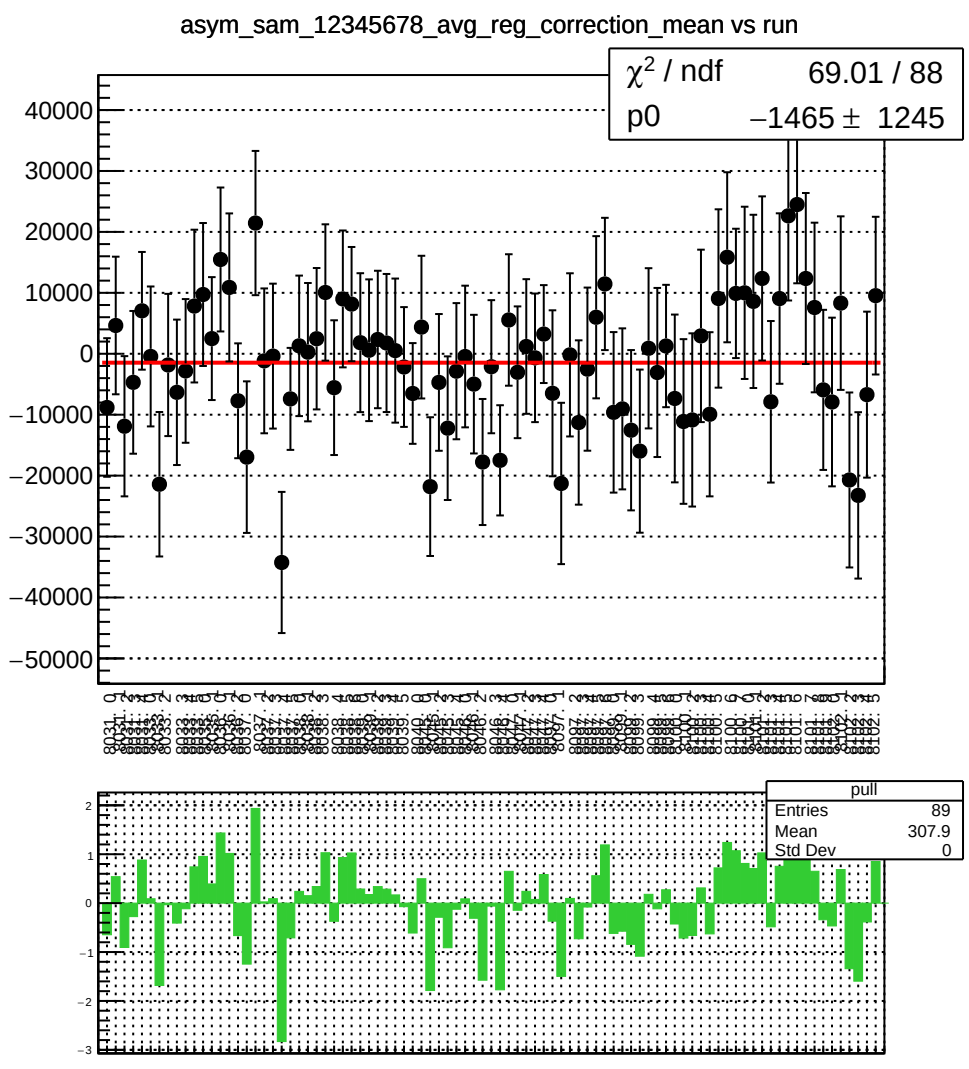

pull1D
Entries 89
Mean 0.06692
Std Dev 1.058

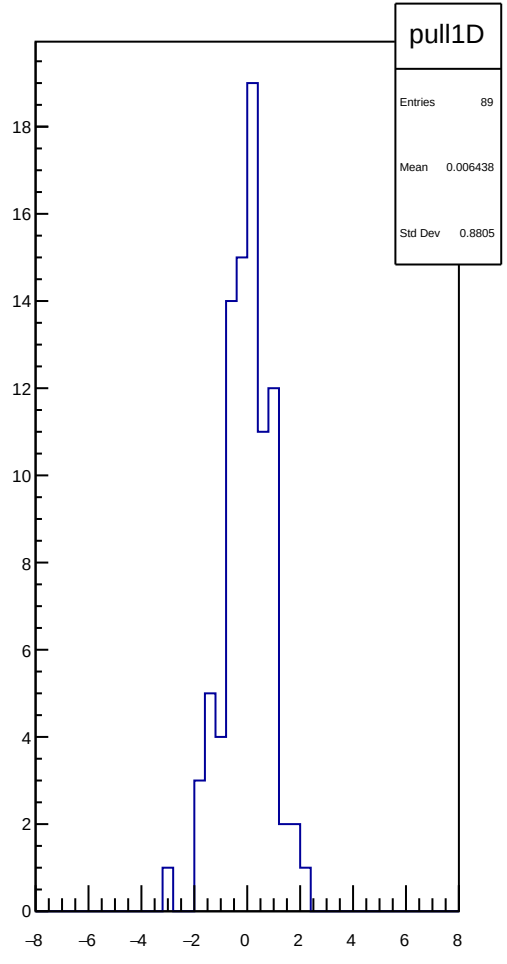

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.12
0.1
0.08
0.06
0.04
0.02
χ² / ndf 5.898e+05 / 88
p0 1.749e−11 ± 1.625e−14

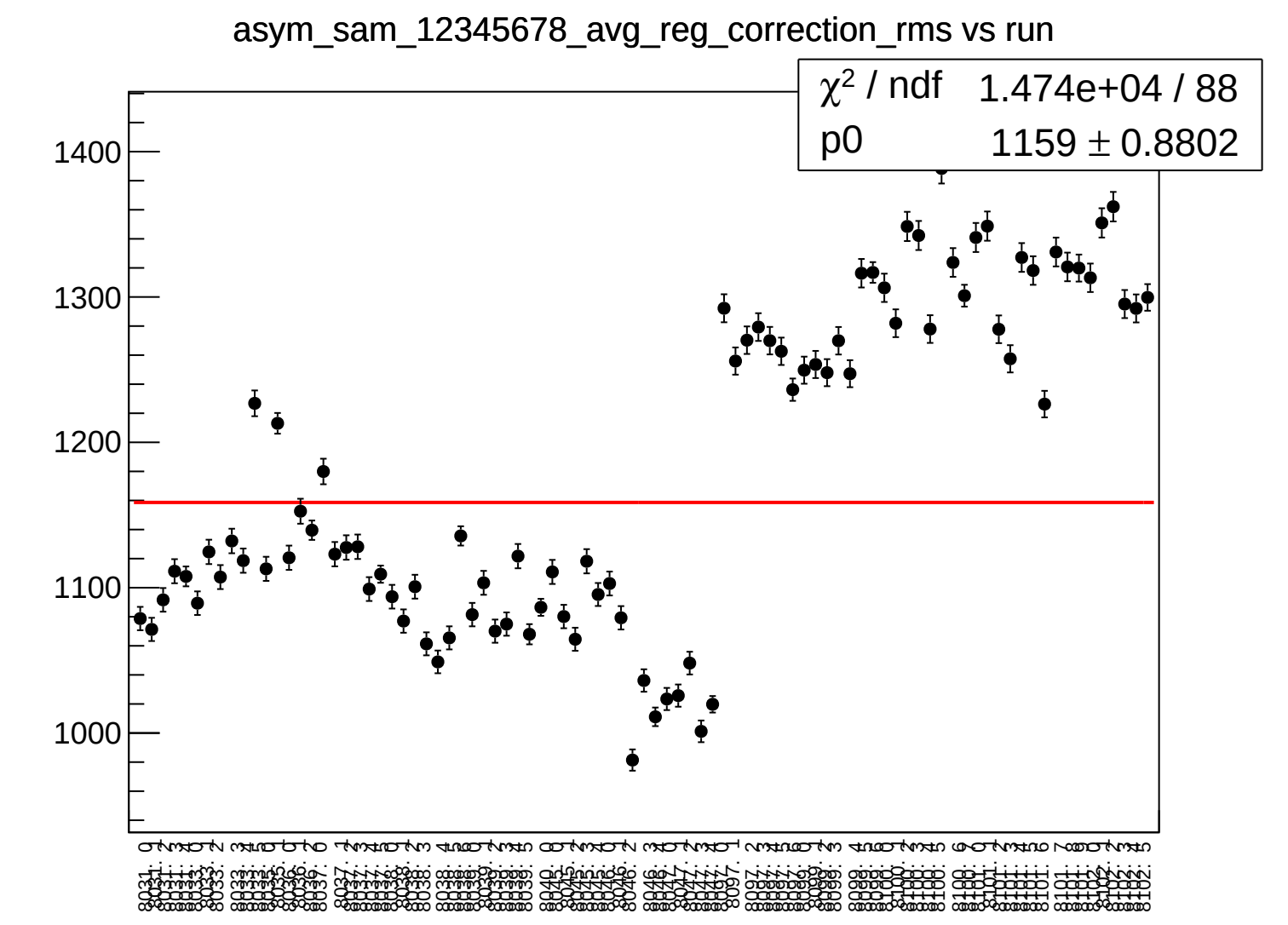

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 81.67 / 88
p0 −63.44 ± 109.8
pull
Entries 89
Mean 277
Std Dev 0

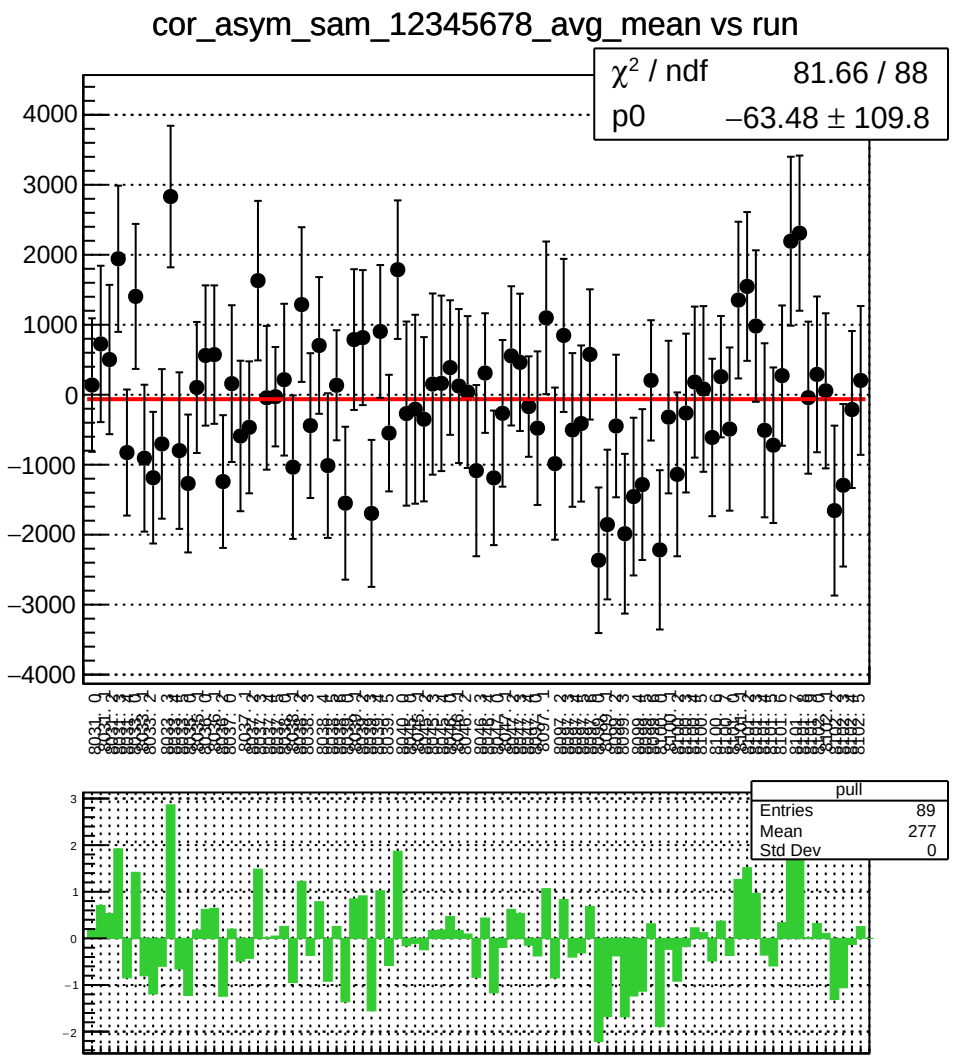

pull1D
Entries 89
Mean −0.008287
Std Dev 0.9579

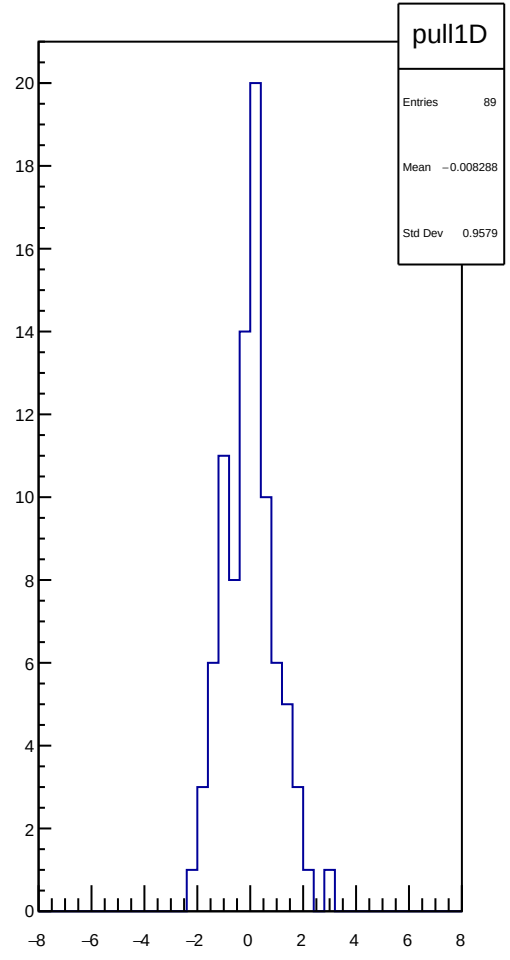

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.228e+04 / 88
p0 102.2 ± 0.07762
130
120
110
100
90

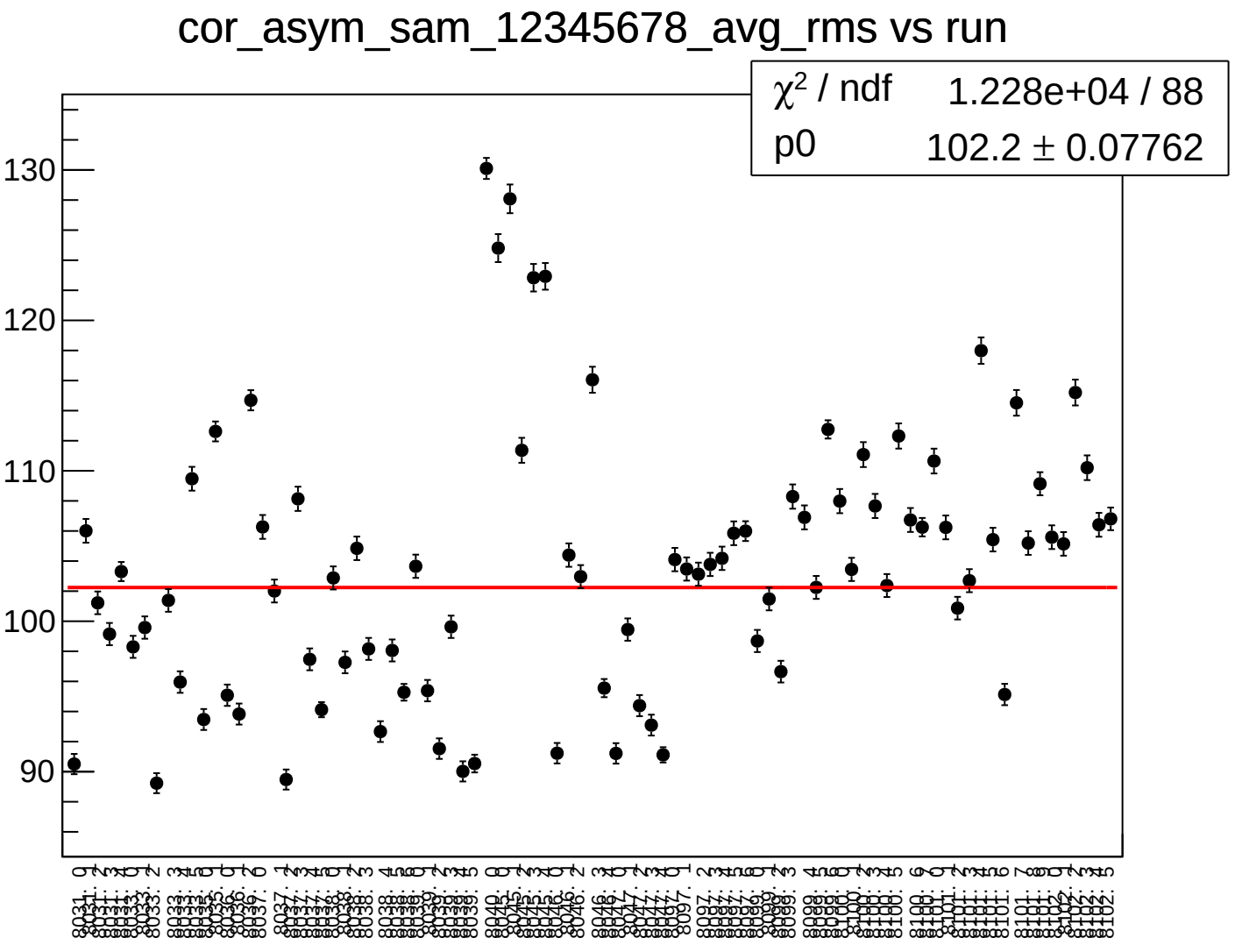

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 69.01 / 88
p0 −1465 ± 1245
pull
Entries 89
Mean 307.9
Std Dev 0

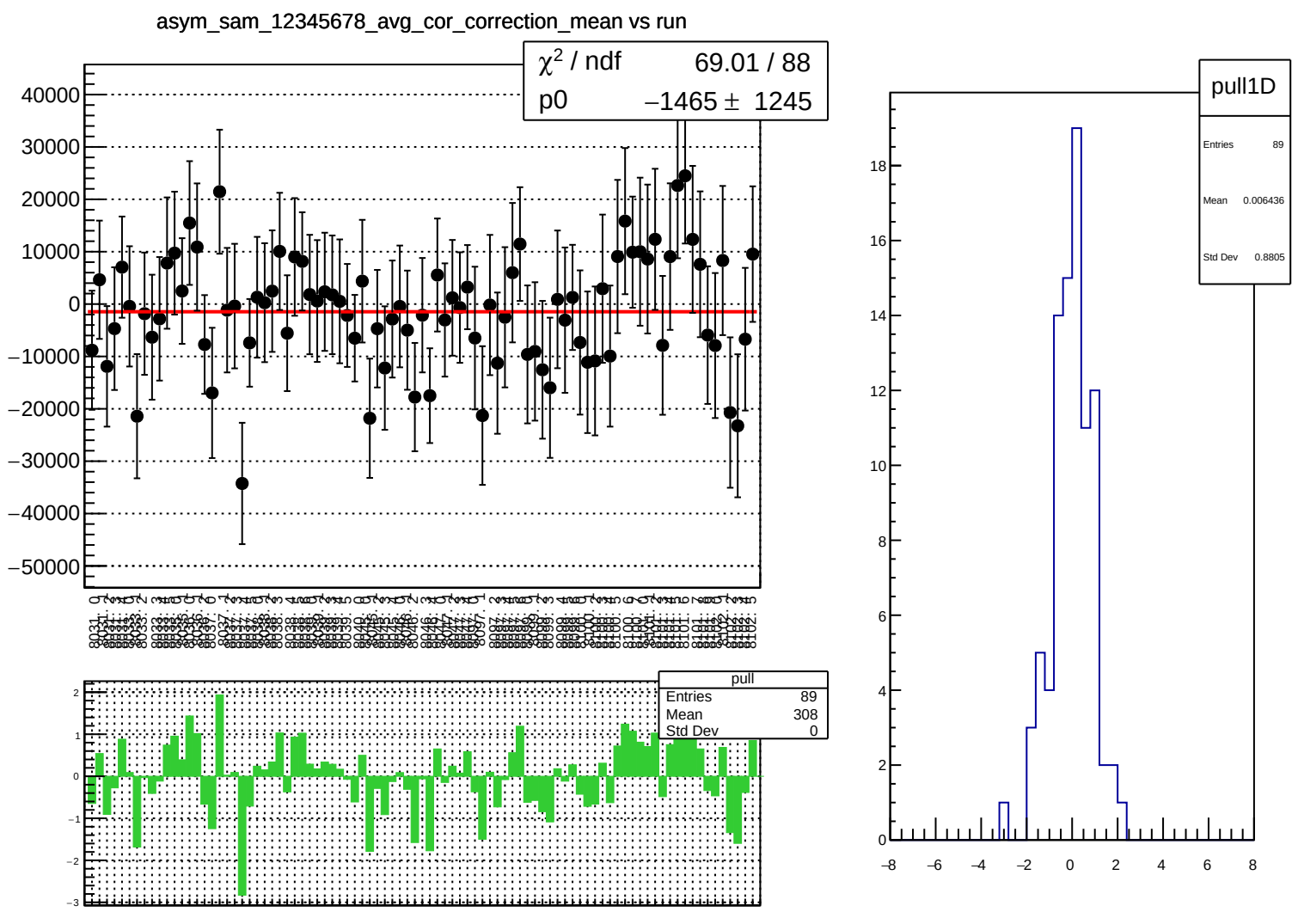

pull1D
Entries 89
Mean 0.006438
Std Dev 0.8805

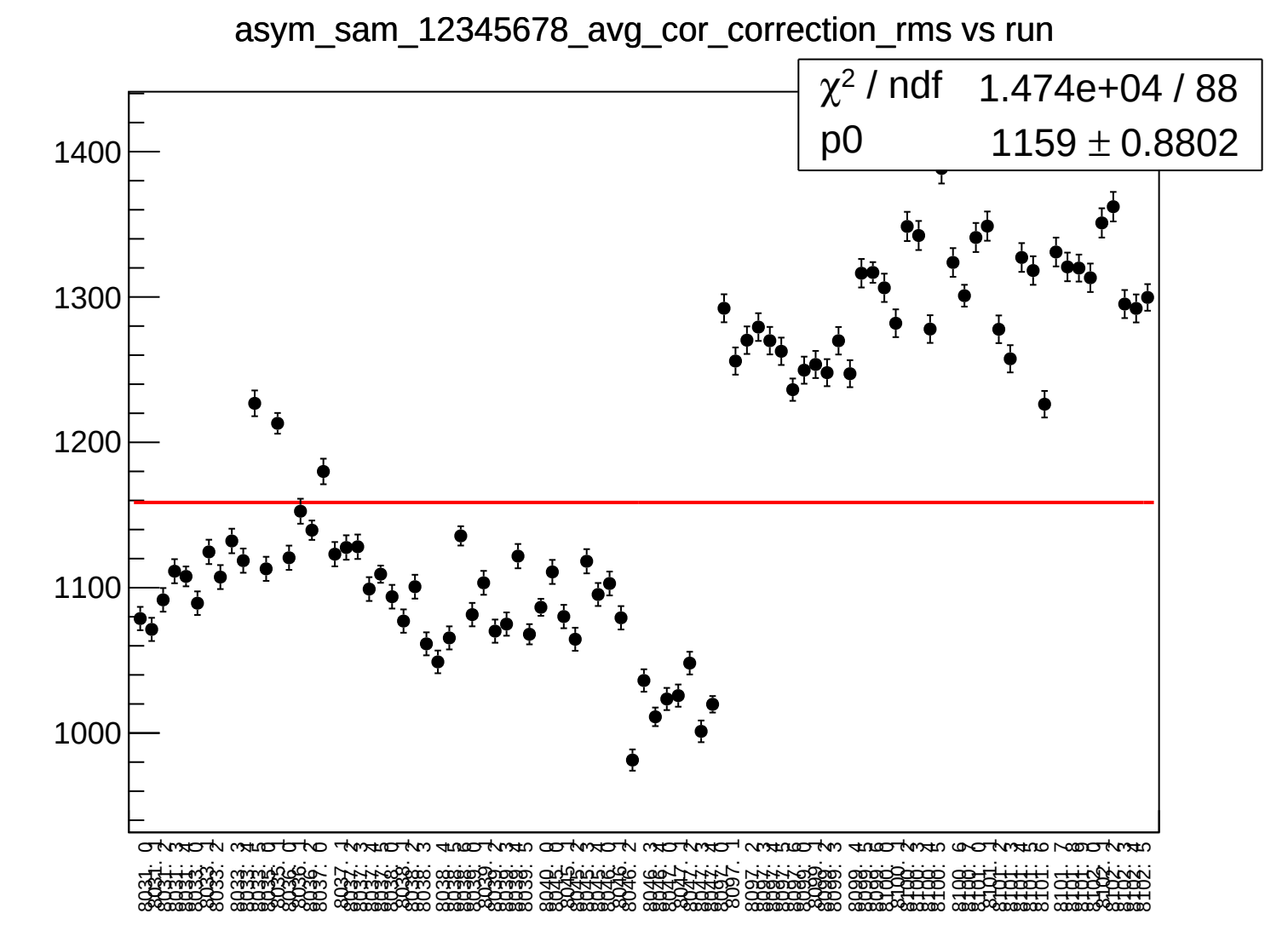

asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 1.474e+04 / 88
p0 1159 ± 0.8802
1400
1300
1200
1100
1000

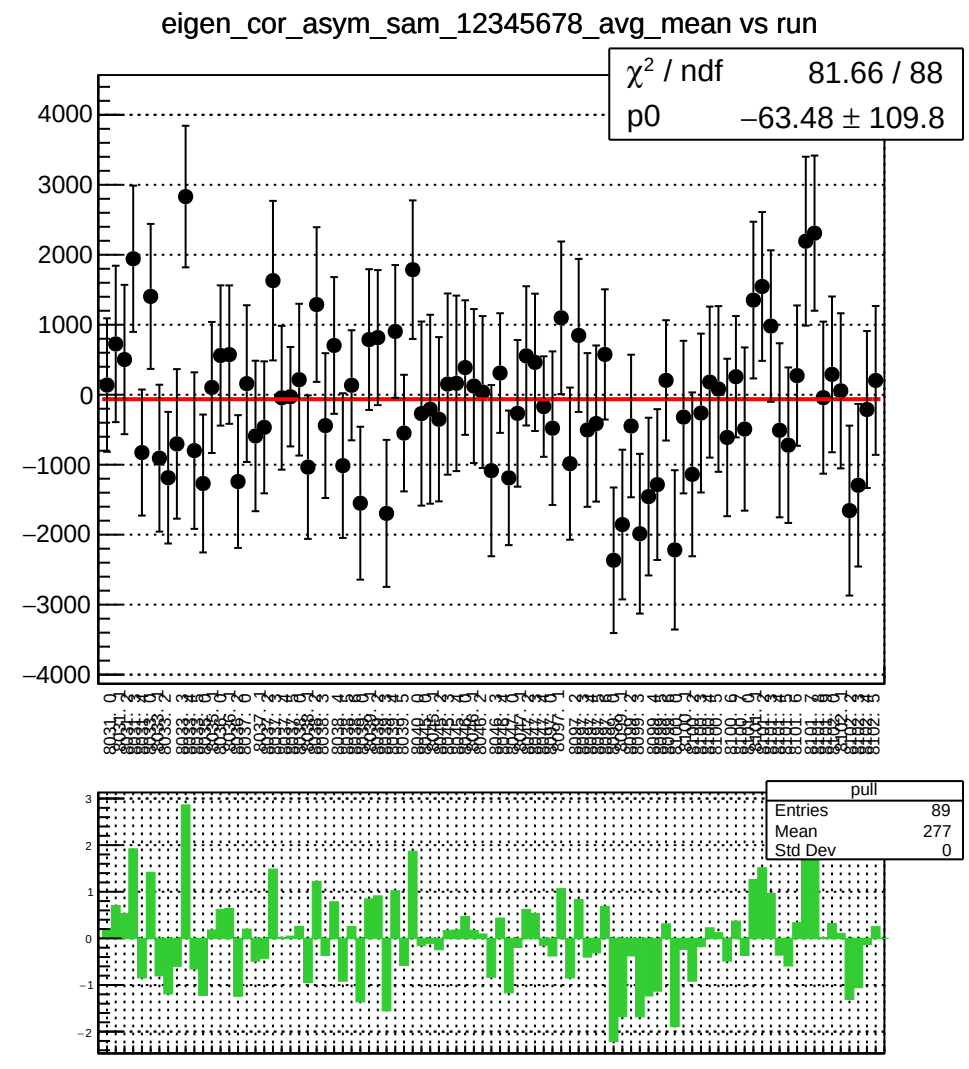

cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 81.66 / 88
p0 −63.48 ± 109.8
pull
Entries 89
Mean 277
Std Dev 0

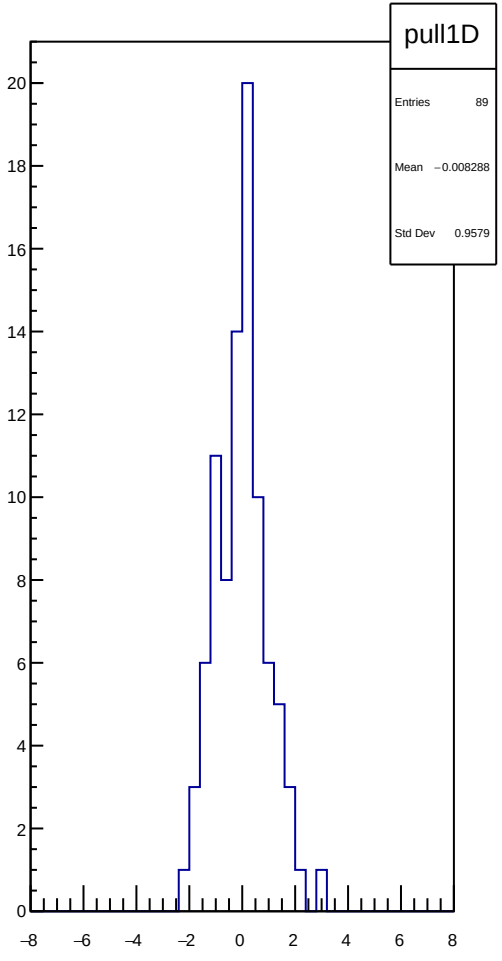

pull1D
Entries 89
Mean −0.008288
Std Dev 0.9579

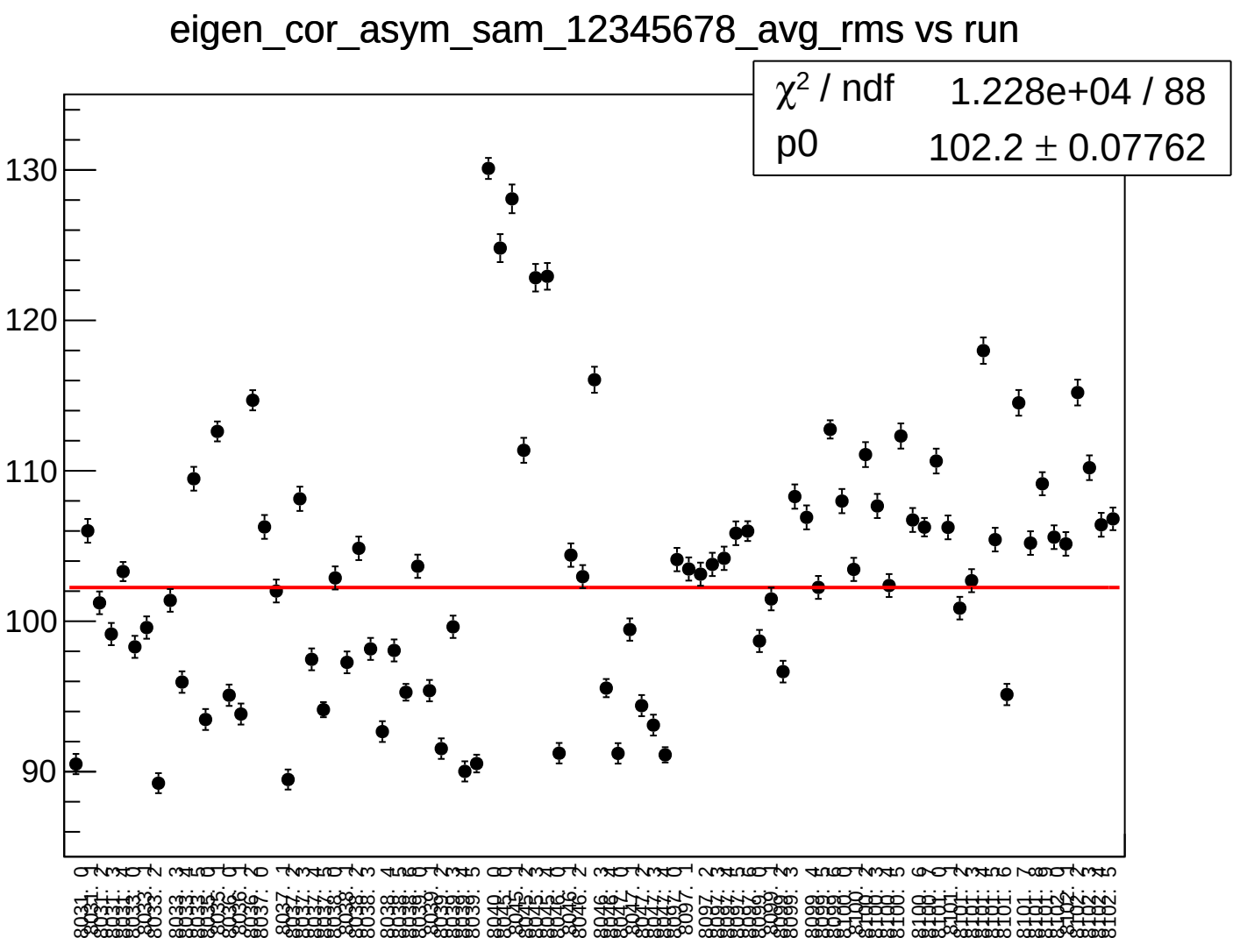

cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.228e+04 / 88
p0 102.2 ± 0.07762
130
120
110
100
90

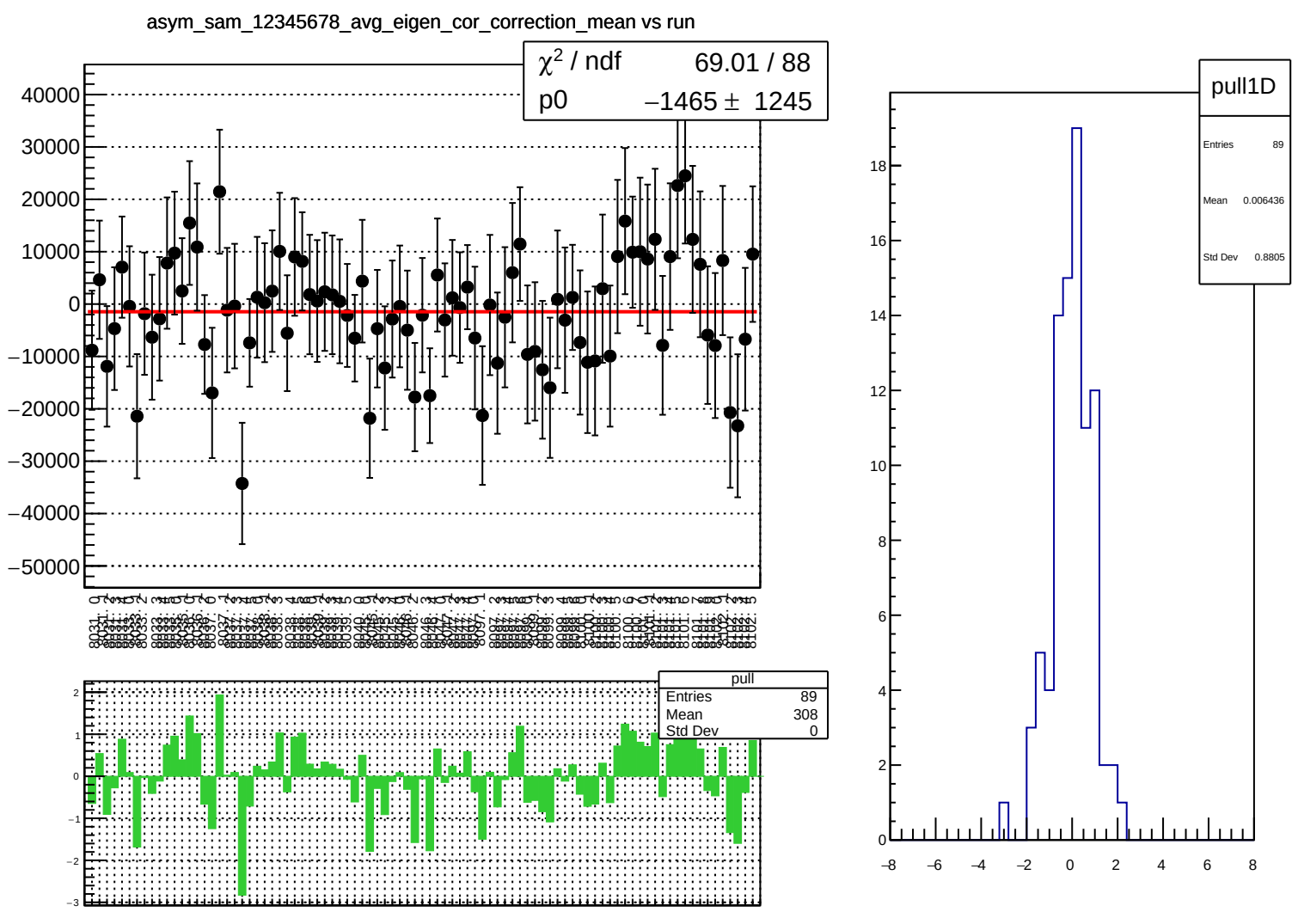

asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 69.01 / 88
p0 −1465 ± 1245
pull
Entries 89
Mean 308
Std Dev 0
pull1D
Entries 89
Mean 0.006436
Std Dev 0.8805

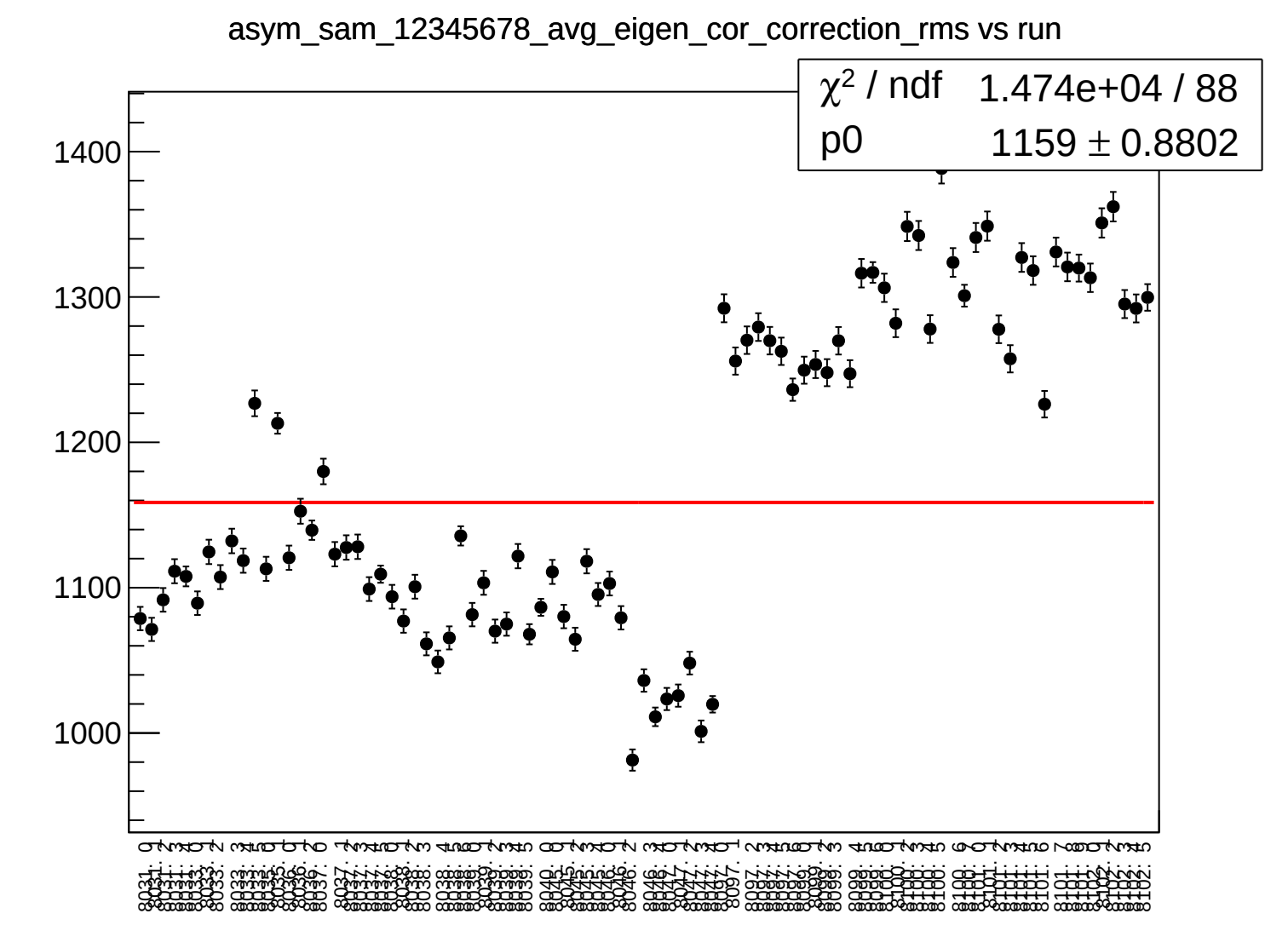

asym_sam_12345678_avg_cor_correction_rms vs run
χ² / ndf 1.474e+04 / 88
p0 1159 ± 0.8802
1400
1300
1200
1100
1000

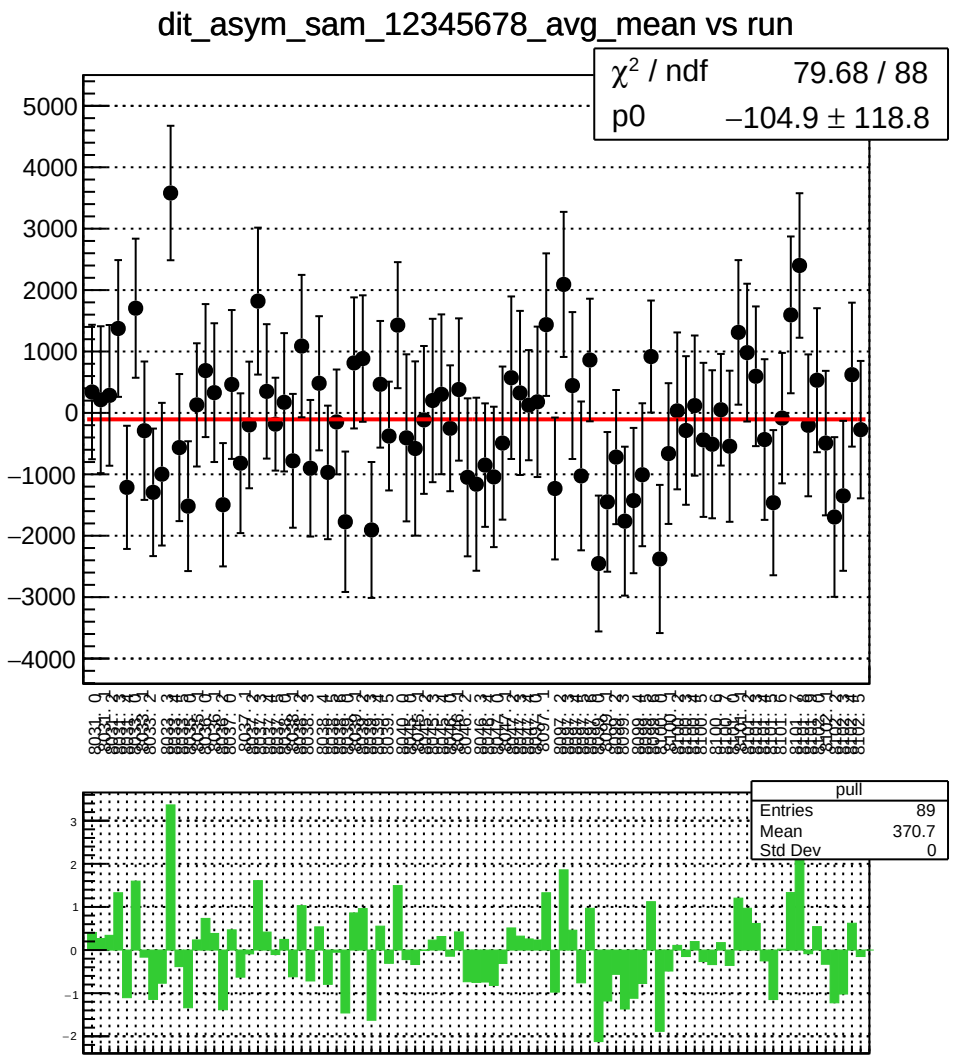

eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 81.66 / 88
p0 −63.48 ± 109.8
pull
Entries 89
Mean 277
Std Dev 0

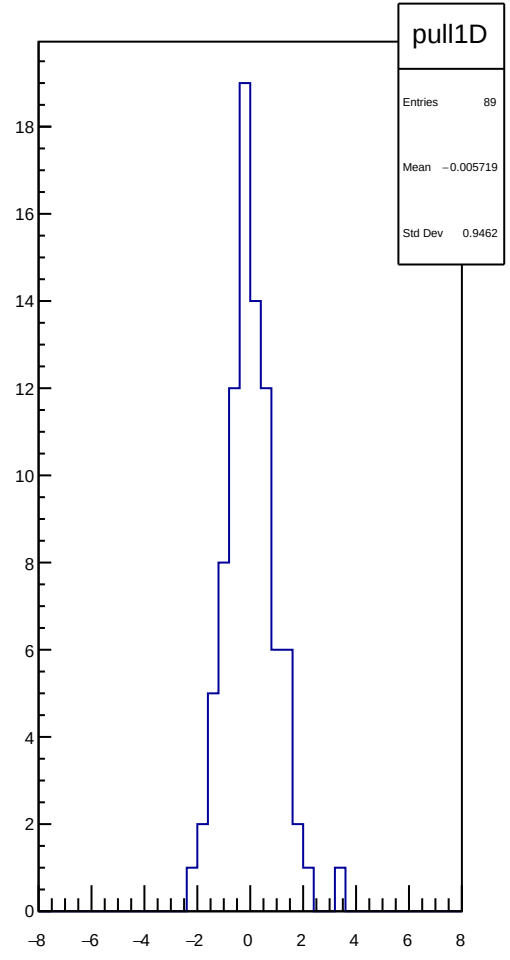

pull1D
Entries 89
Mean −0.008288
Std Dev 0.9579

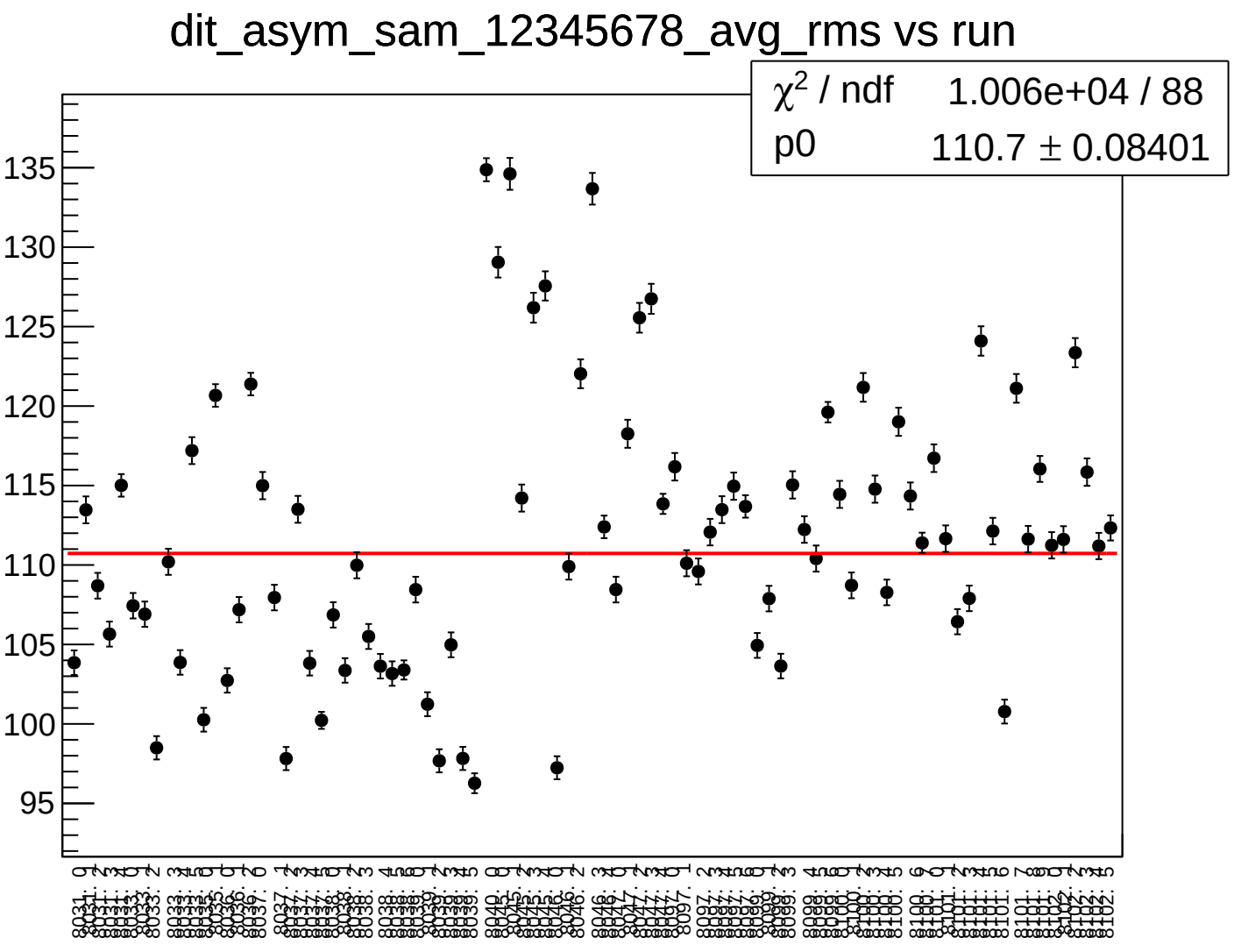

eigen_cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.228e+04 / 88
p0 102.2 ± 0.07762
130
120
110
100
90

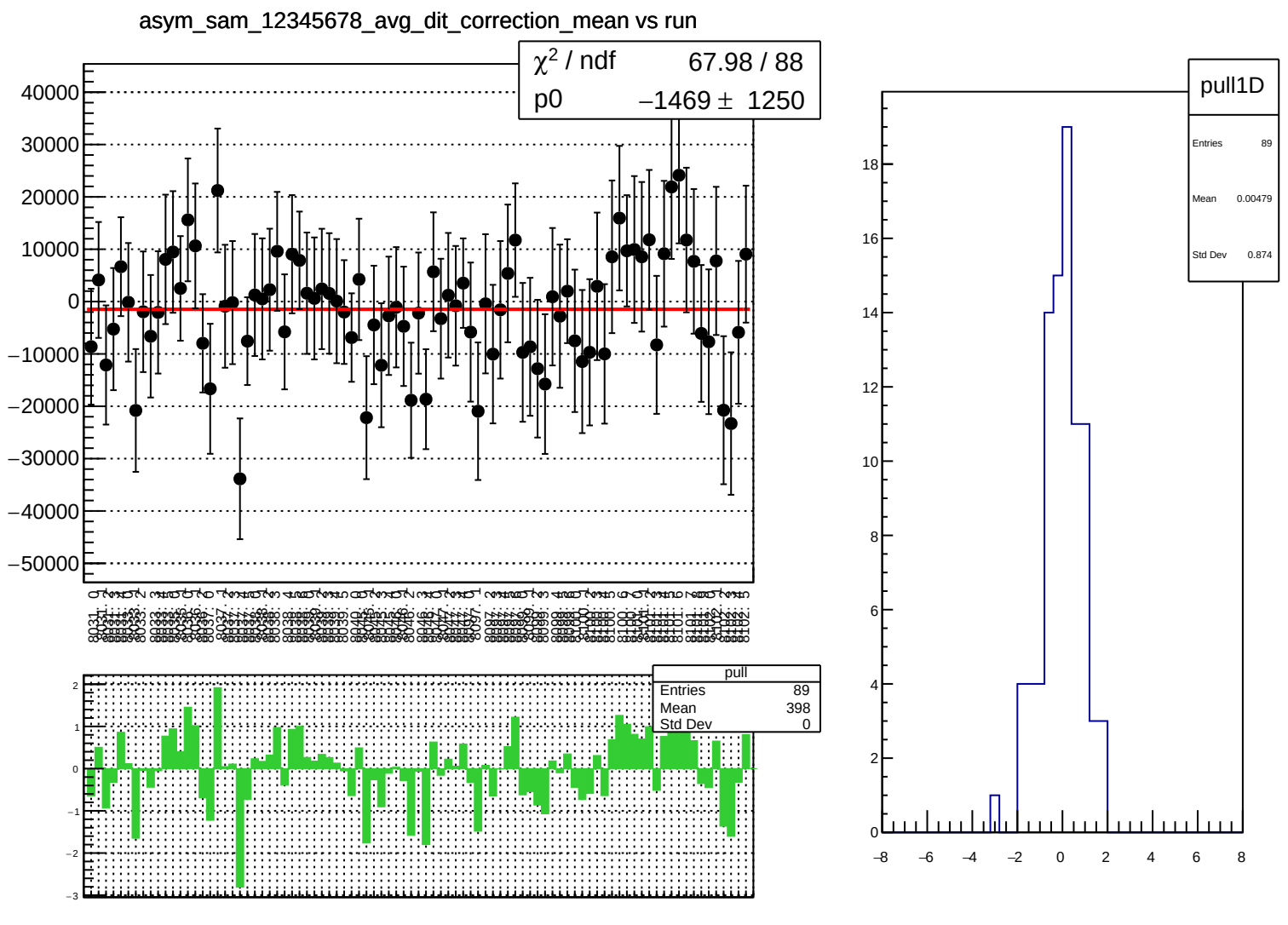

asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 69.01 / 88
p0 −1465 ± 1245
pull
Entries 89
Mean 308
Std Dev 0
pull1D
Entries 89
Mean 0.006436
Std Dev 0.8805

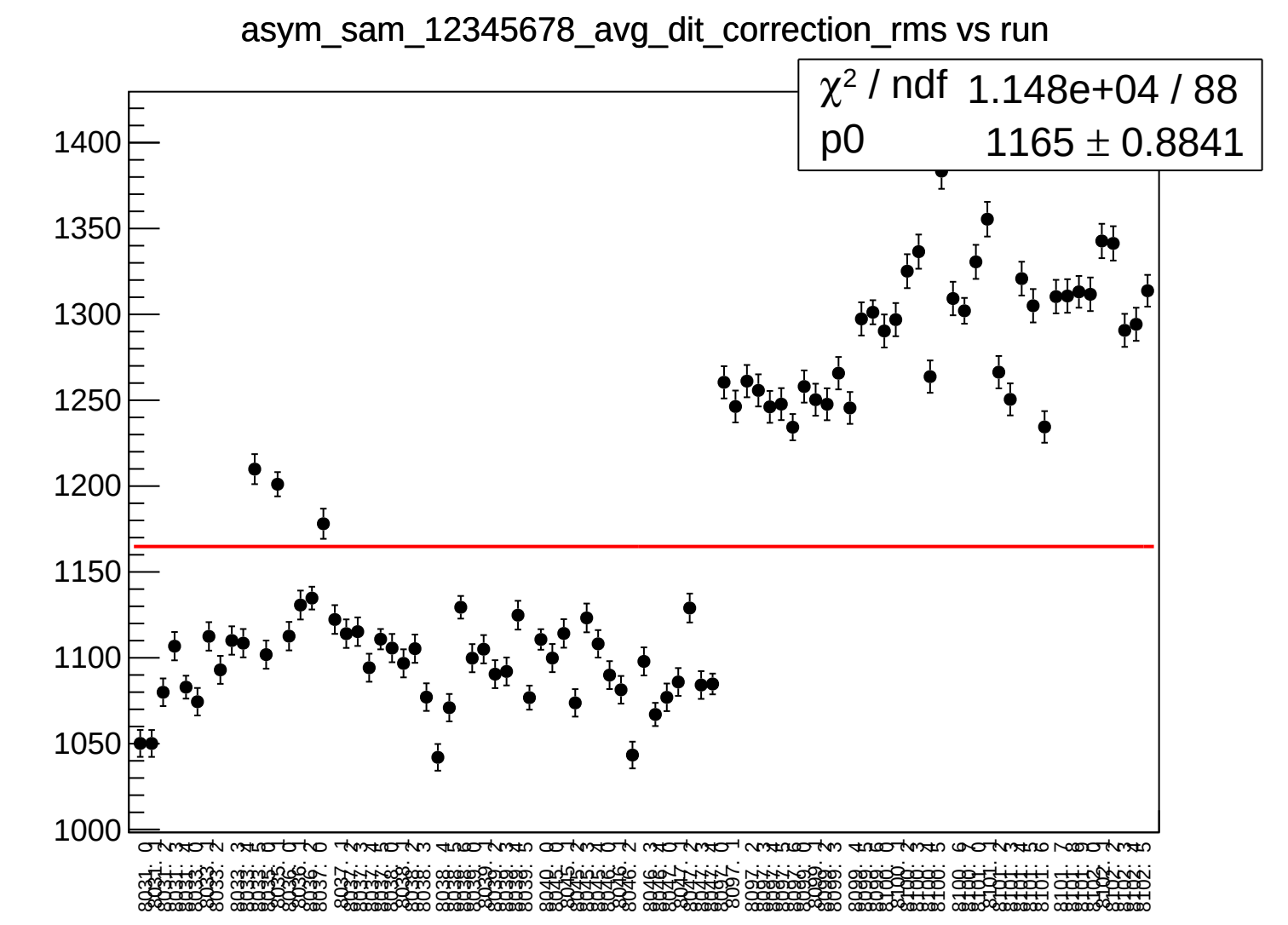

asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.474e+04 / 88
p0 1159 ± 0.8802
1400
1300
1200
1100
1000

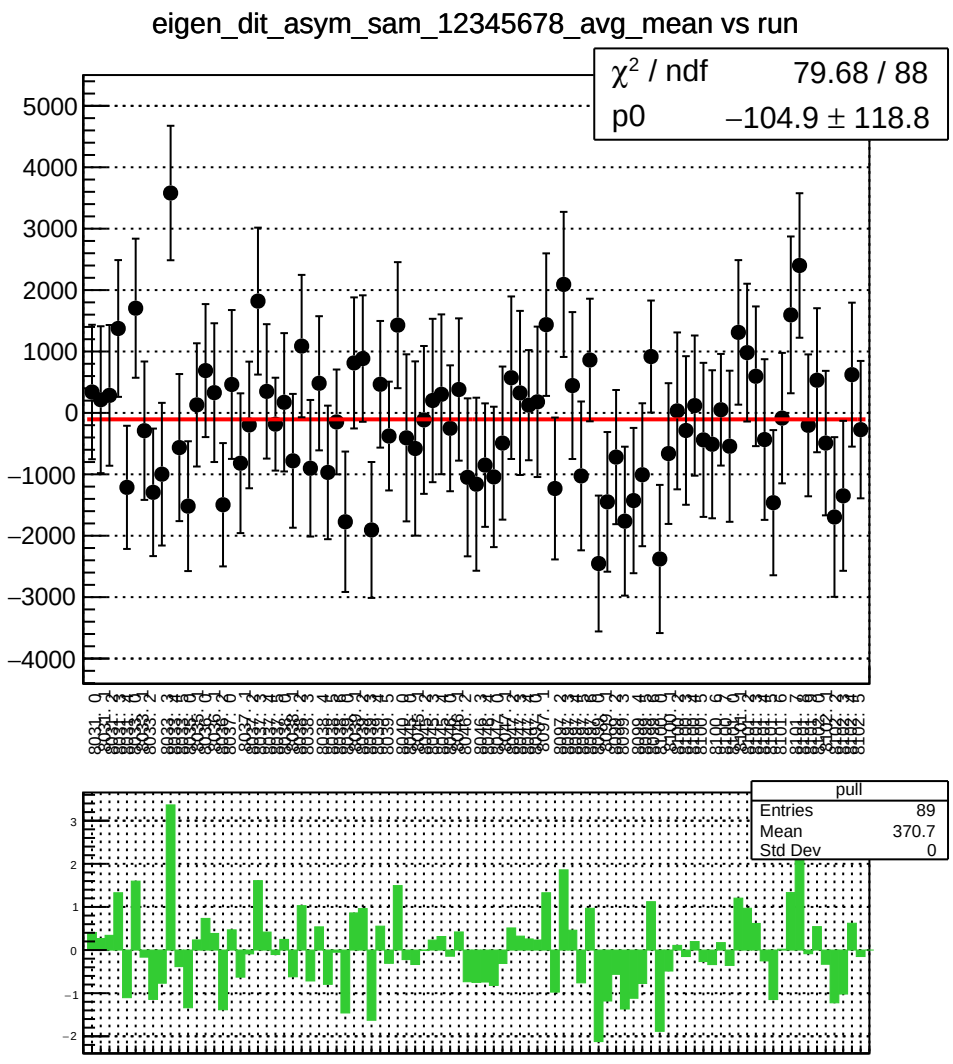

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 79.68 / 88
p0 −104.9 ± 118.8
pull
Entries 89
Mean 370.7
Std Dev 0

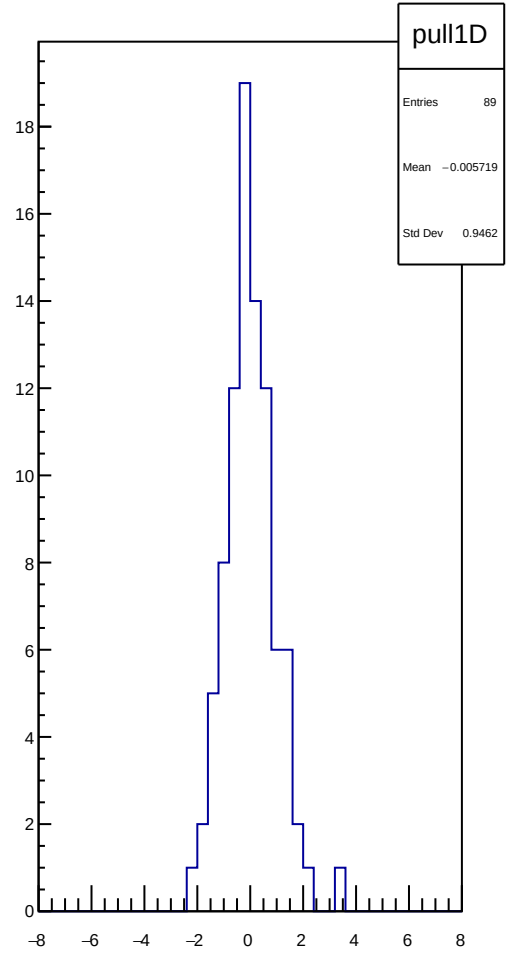

pull1D
Entries 89
Mean −0.005719
Std Dev 0.9462

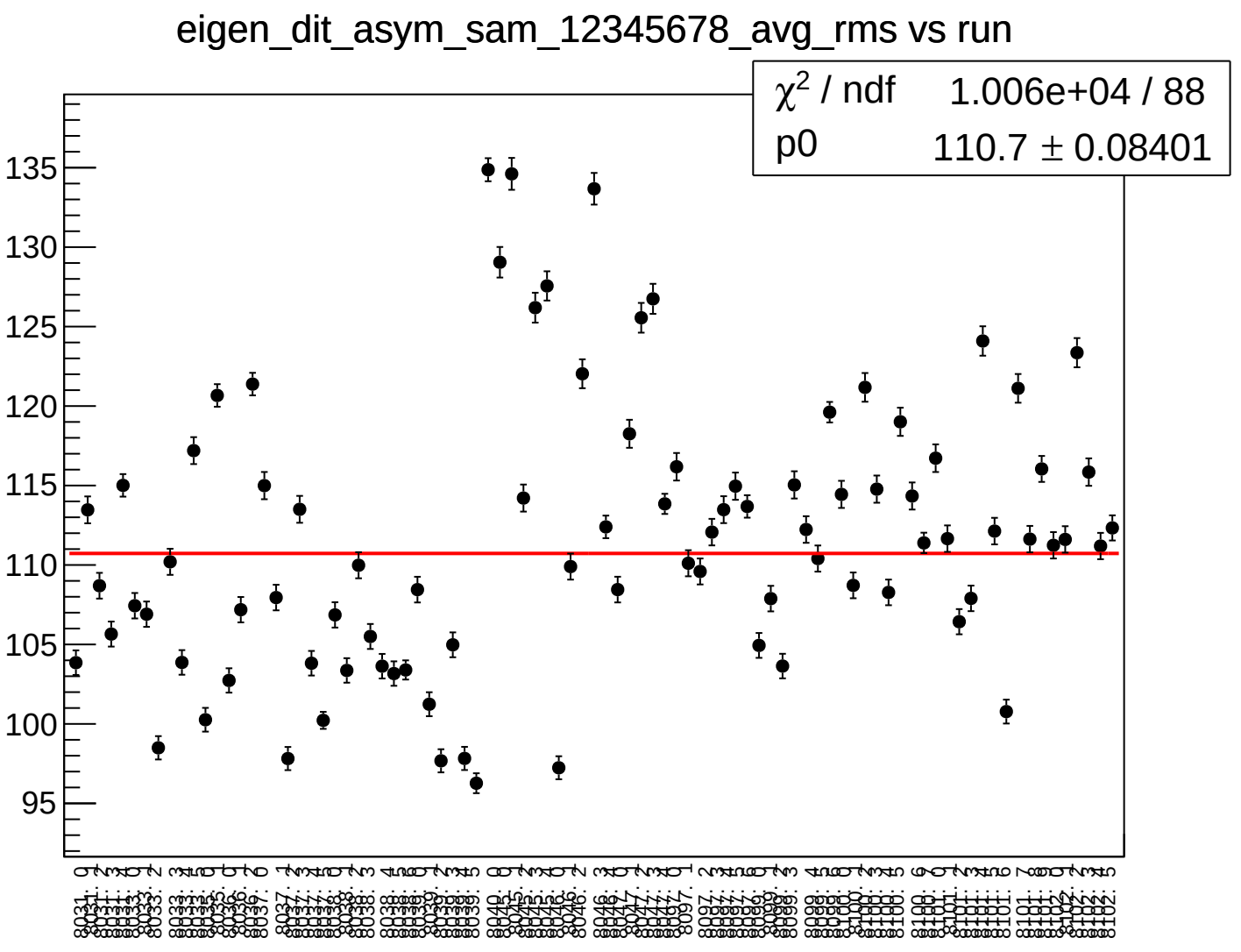

dit_asym_sam_12345678_avg_rms vs run
$\chi^2$ / ndf 1.006e+04 / 88
p0 110.7 ± 0.08401
135
130
125
120
115
110
105
100
95

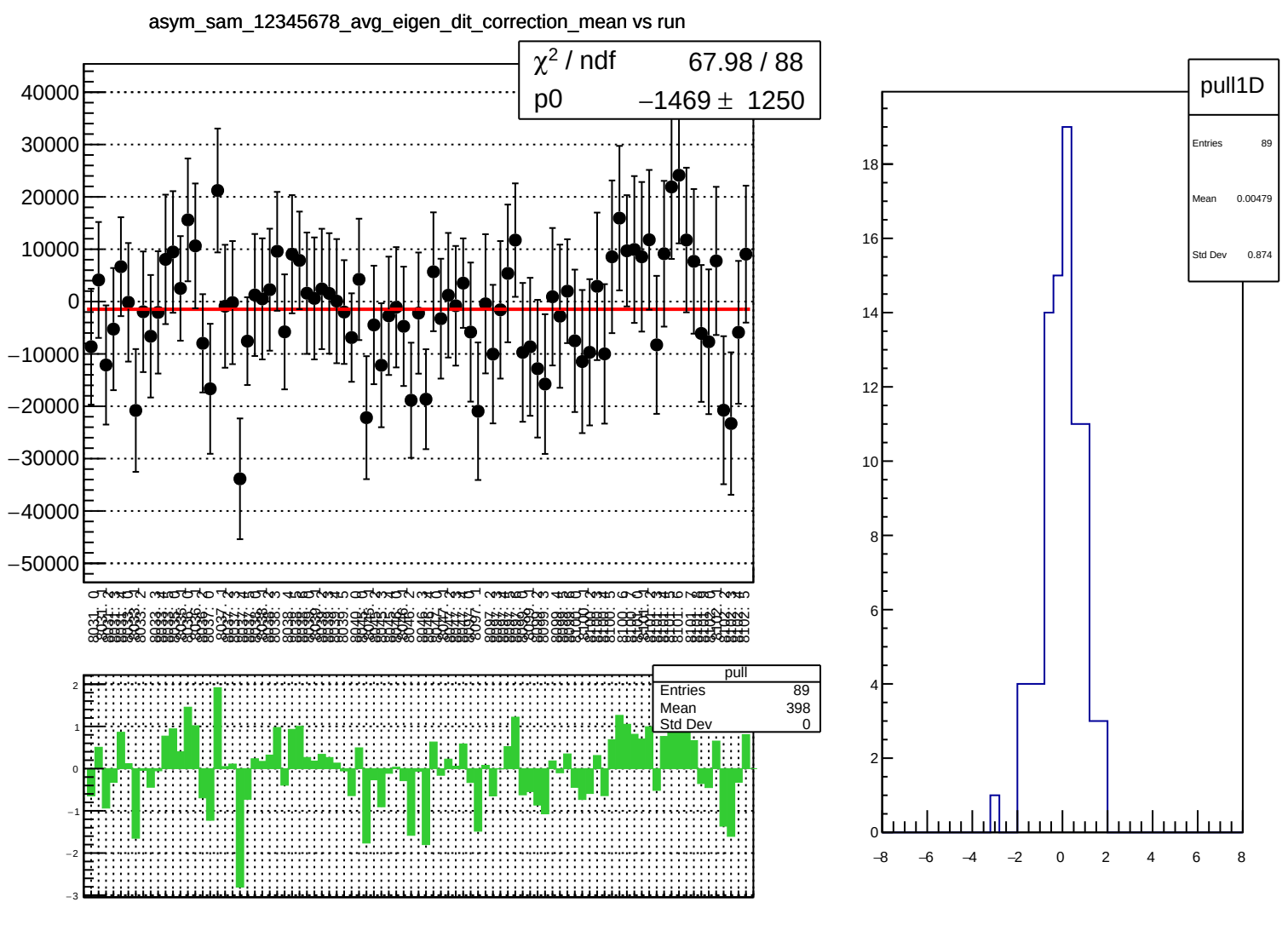

asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 67.98 / 88
p0 −1469 ± 1250
pull
Entries 89
Mean 398
Std Dev 0
pull1D
Entries 89
Mean 0.00479
Std Dev 0.874

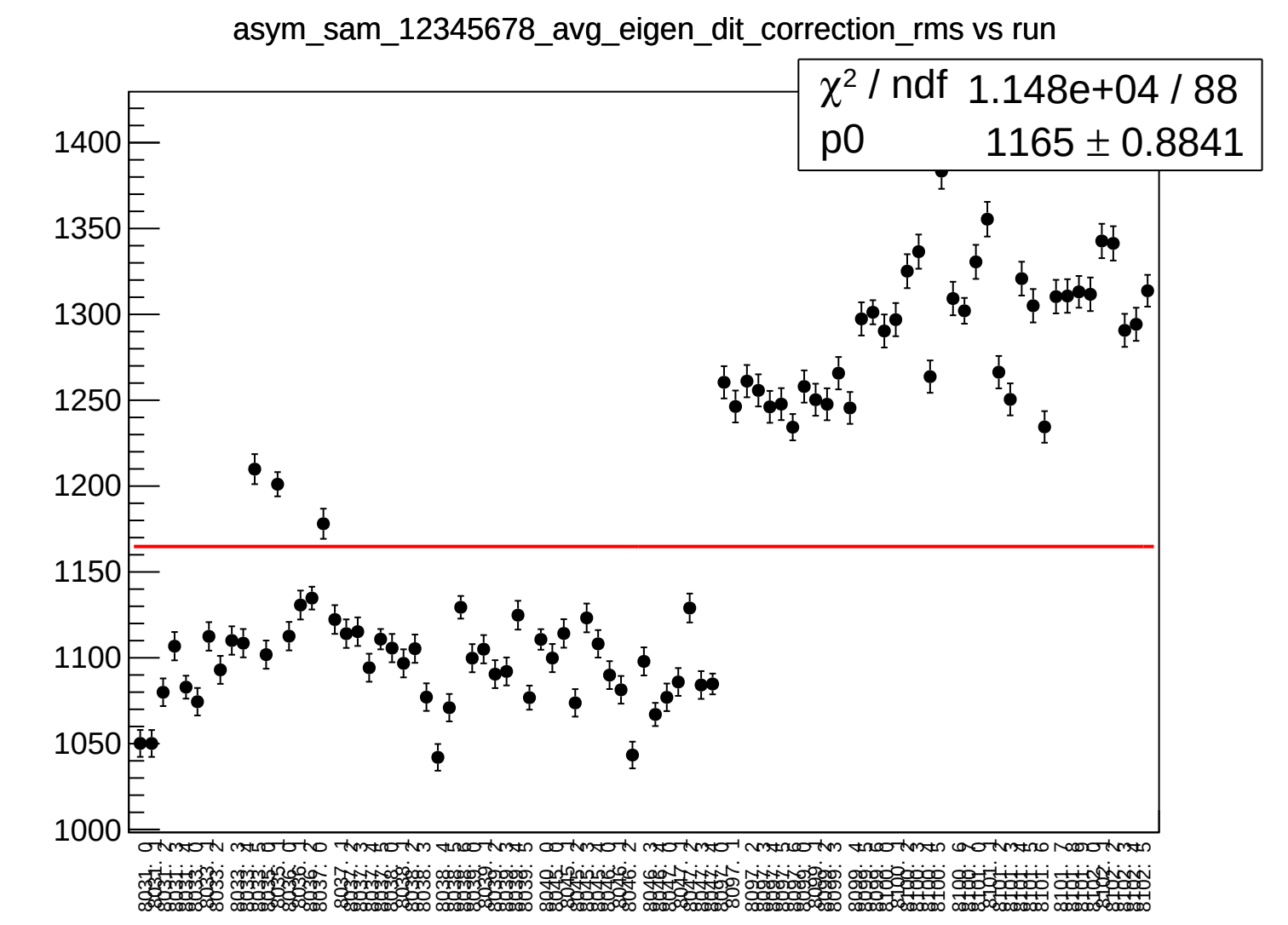

asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 1.148e+04 / 88
p0 1165 ± 0.8841
1400
1350
1300
1250
1200
1150
1100
1050
1000

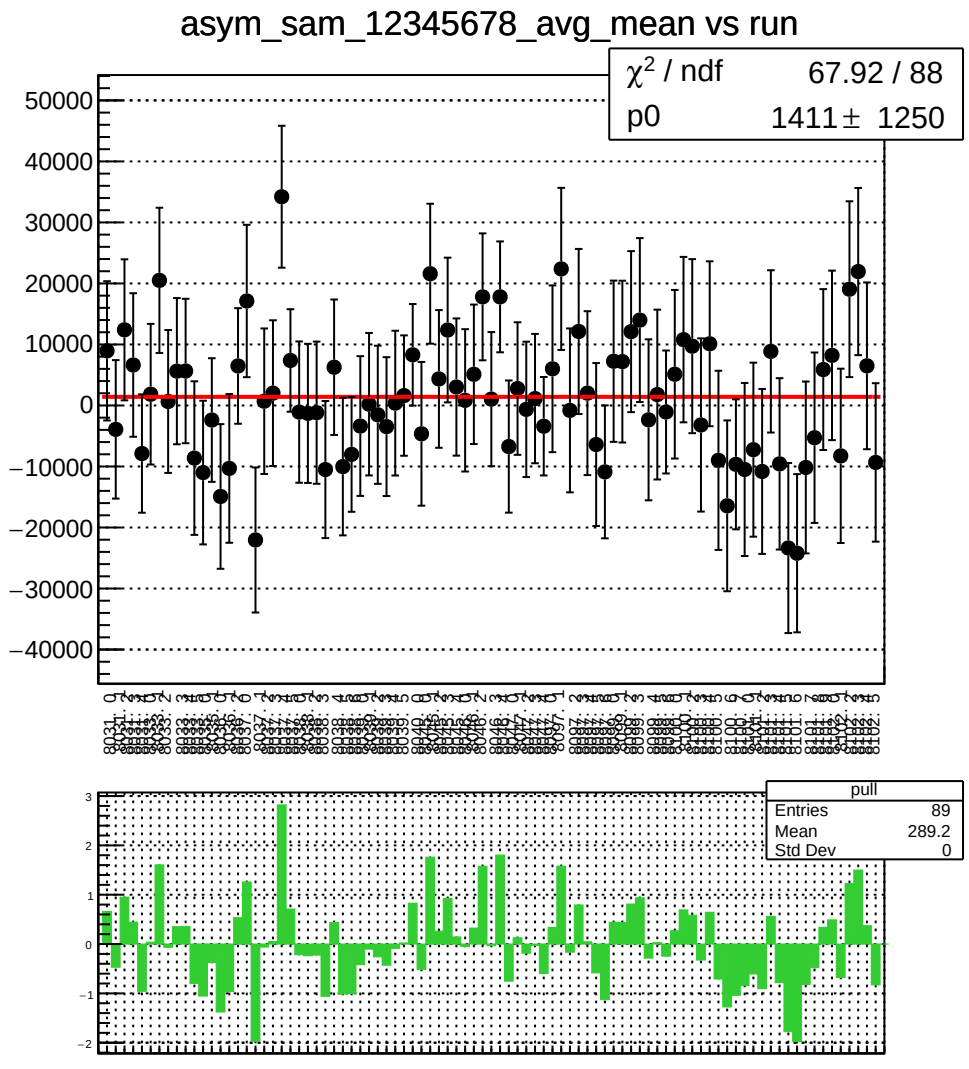

eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 79.68 / 88
p0 −104.9 ± 118.8
pull
Entries 89
Mean 370.7
Std Dev 0

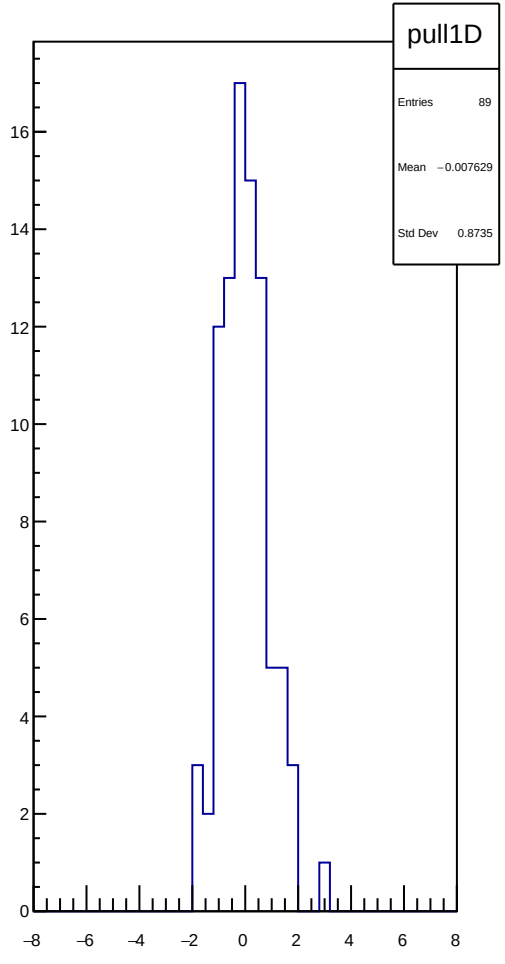

pull1D
Entries 89
Mean −0.005719
Std Dev 0.9462

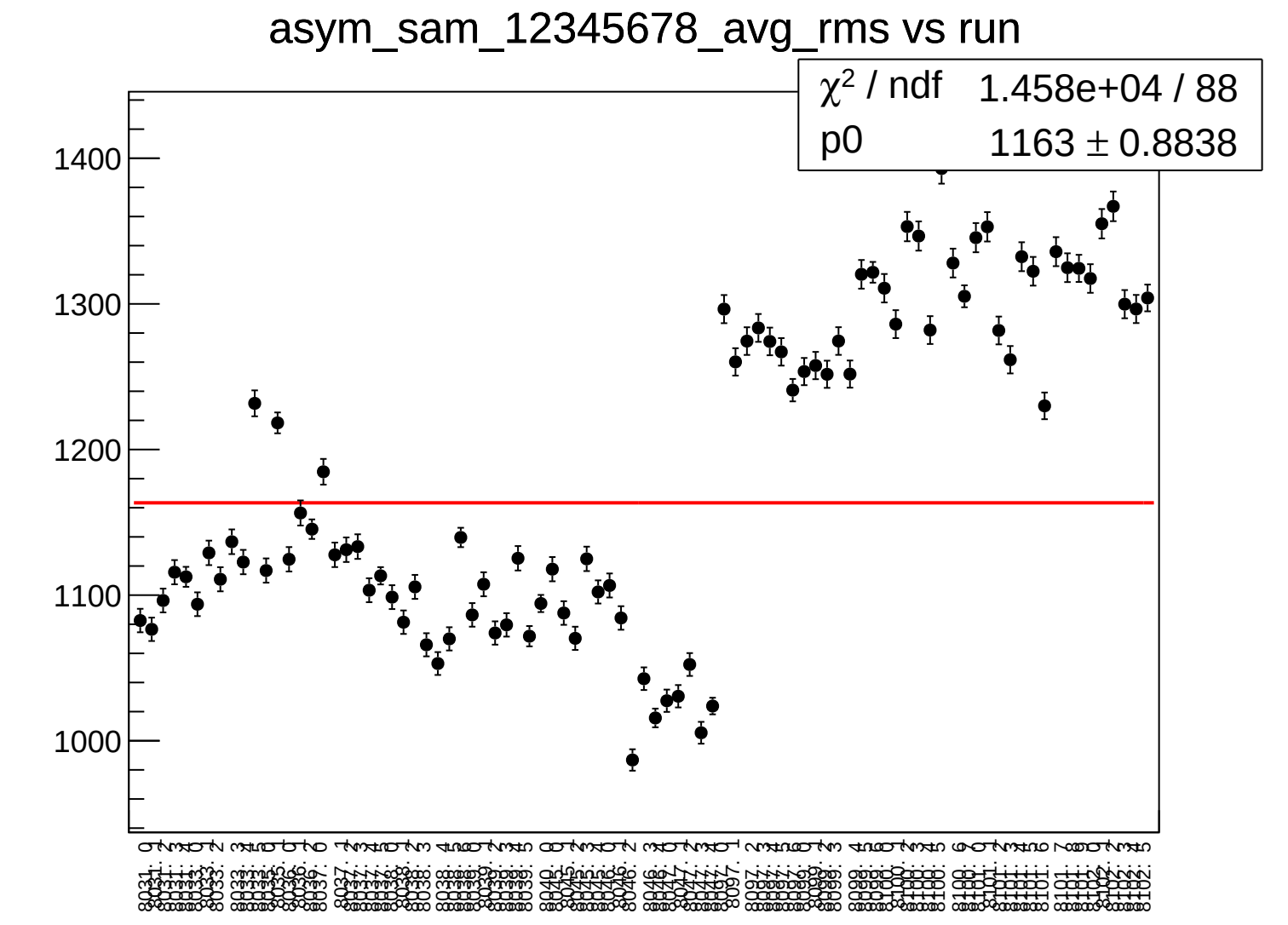

eigen_dit_asym_sam_12345678_avg_rms vs run
$\chi^2$ / ndf 1.006e+04 / 88
p0 110.7 ± 0.08401
135
130
125
120
115
110
105
100
95

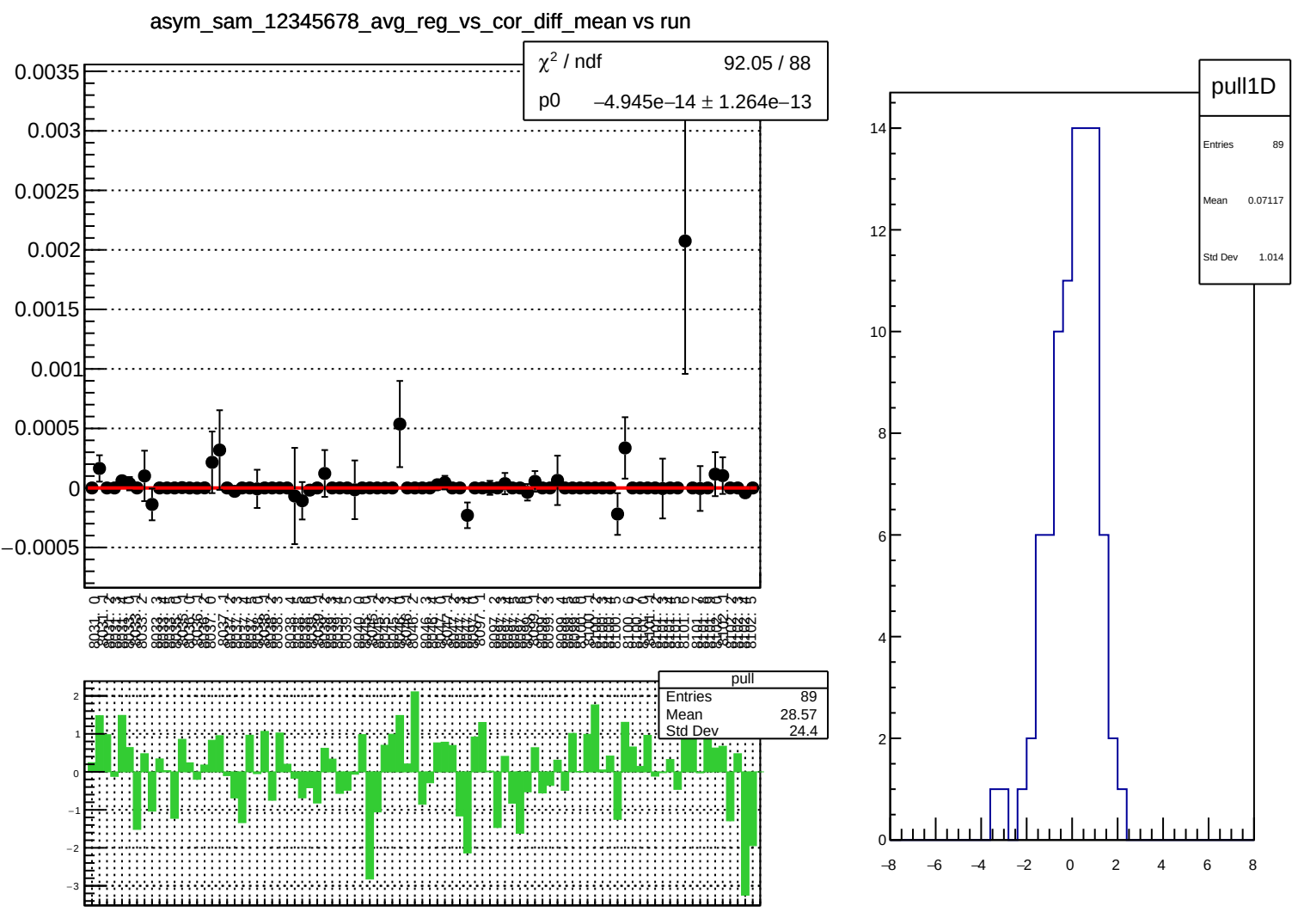

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 67.98 / 88
p0 −1469 ± 1250
pull
Entries 89
Mean 398
Std Dev 0
pull1D
Entries 89
Mean 0.00479
Std Dev 0.874

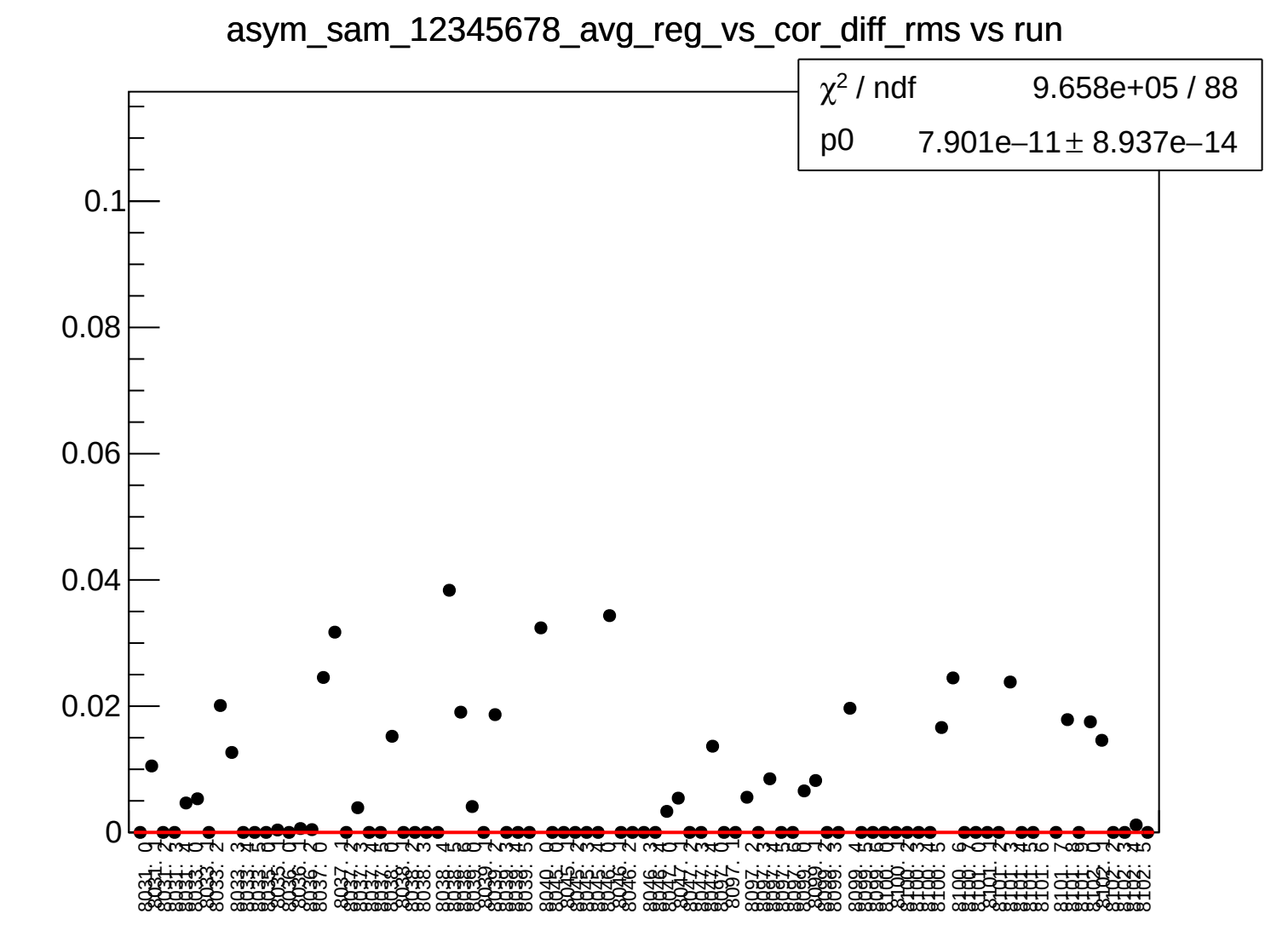

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.148e+04 / 88
p0 1165 ± 0.8841
1400
1350
1300
1250
1200
1150
1100
1050
1000

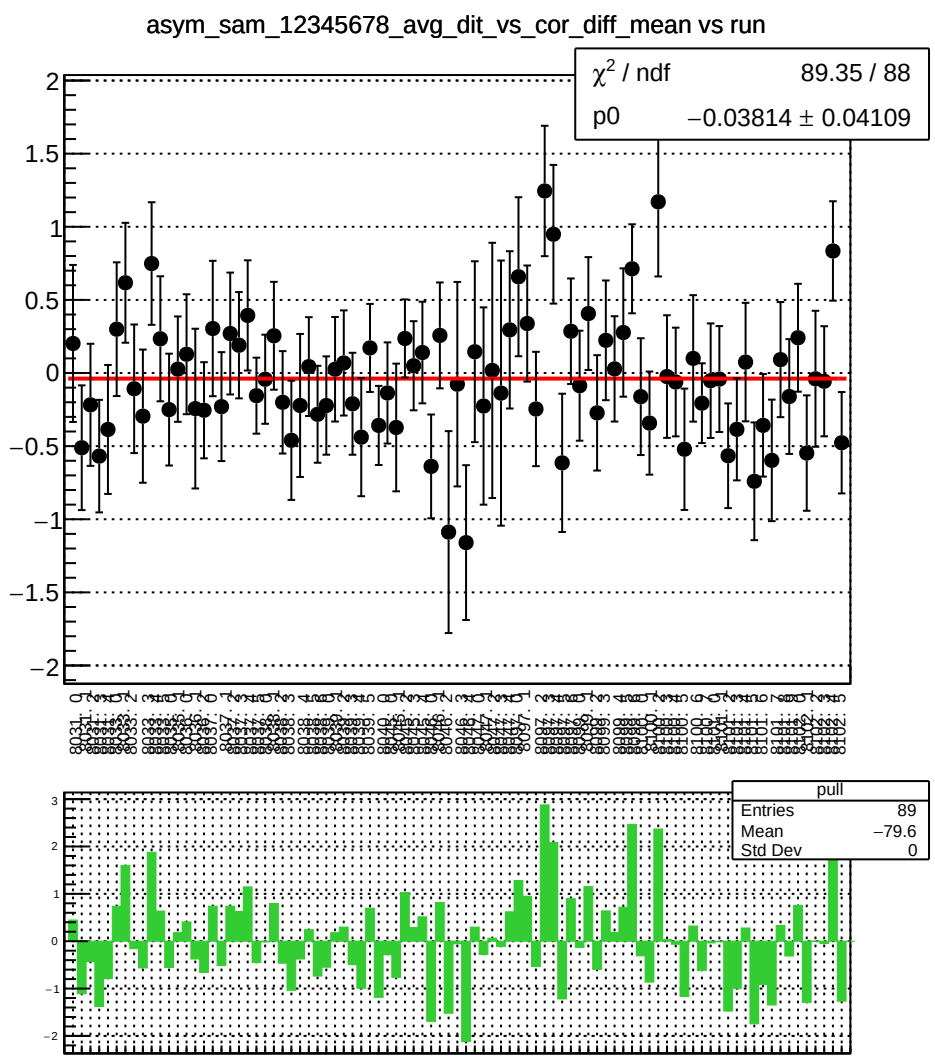

asym_sam_12345678_avg_mean vs run
χ² / ndf 67.92 / 88
p0 1411 ± 1250
pull
Entries 89
Mean 289.2
Std Dev 0

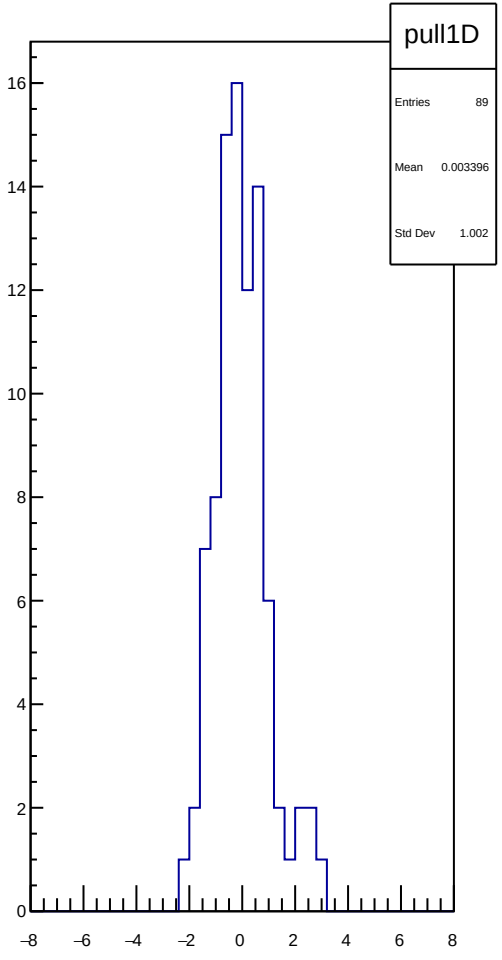

pull1D
Entries 89
Mean −0.007629
Std Dev 0.8735

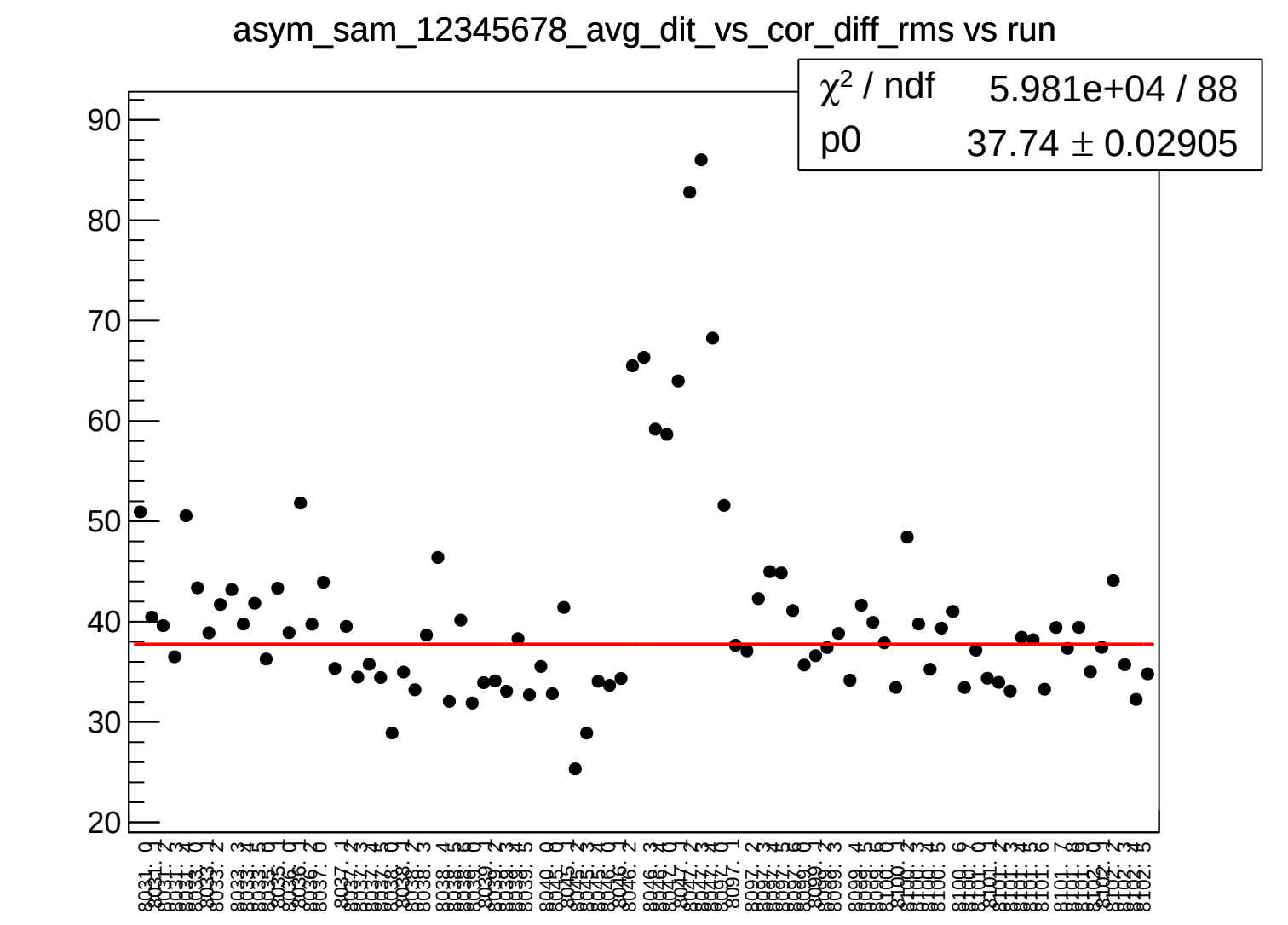

asym_sam_12345678_avg_rms vs run
χ² / ndf 1.458e+04 / 88
p0 1163 ± 0.8838
1400
1300
1200
1100
1000

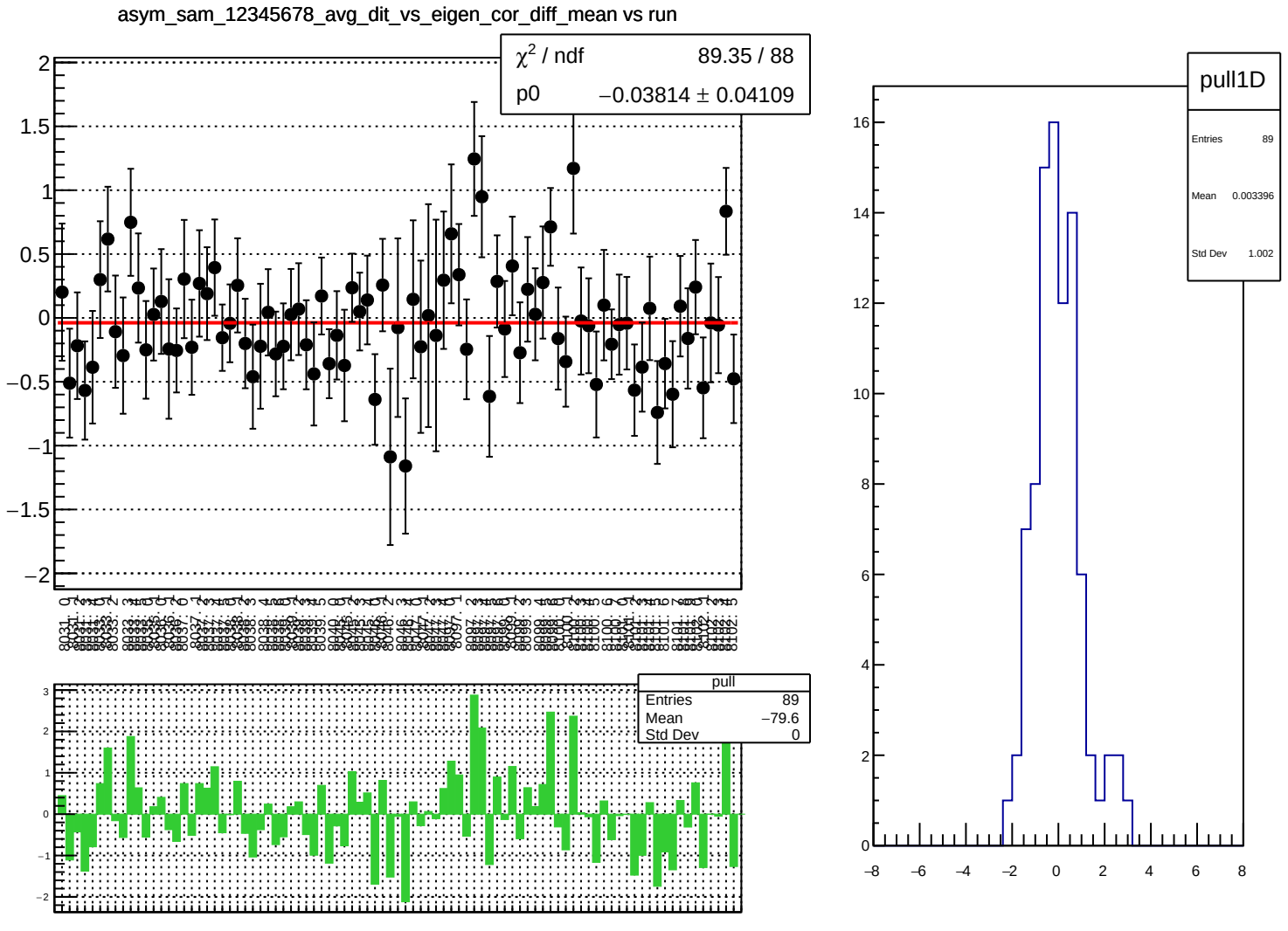

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 92.05 / 88
p0 −4.945e−14 ± 1.264e−13
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
−0.0005
pull
Entries 89
Mean 28.57
Std Dev 24.4
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.07117
Std Dev 1.014
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

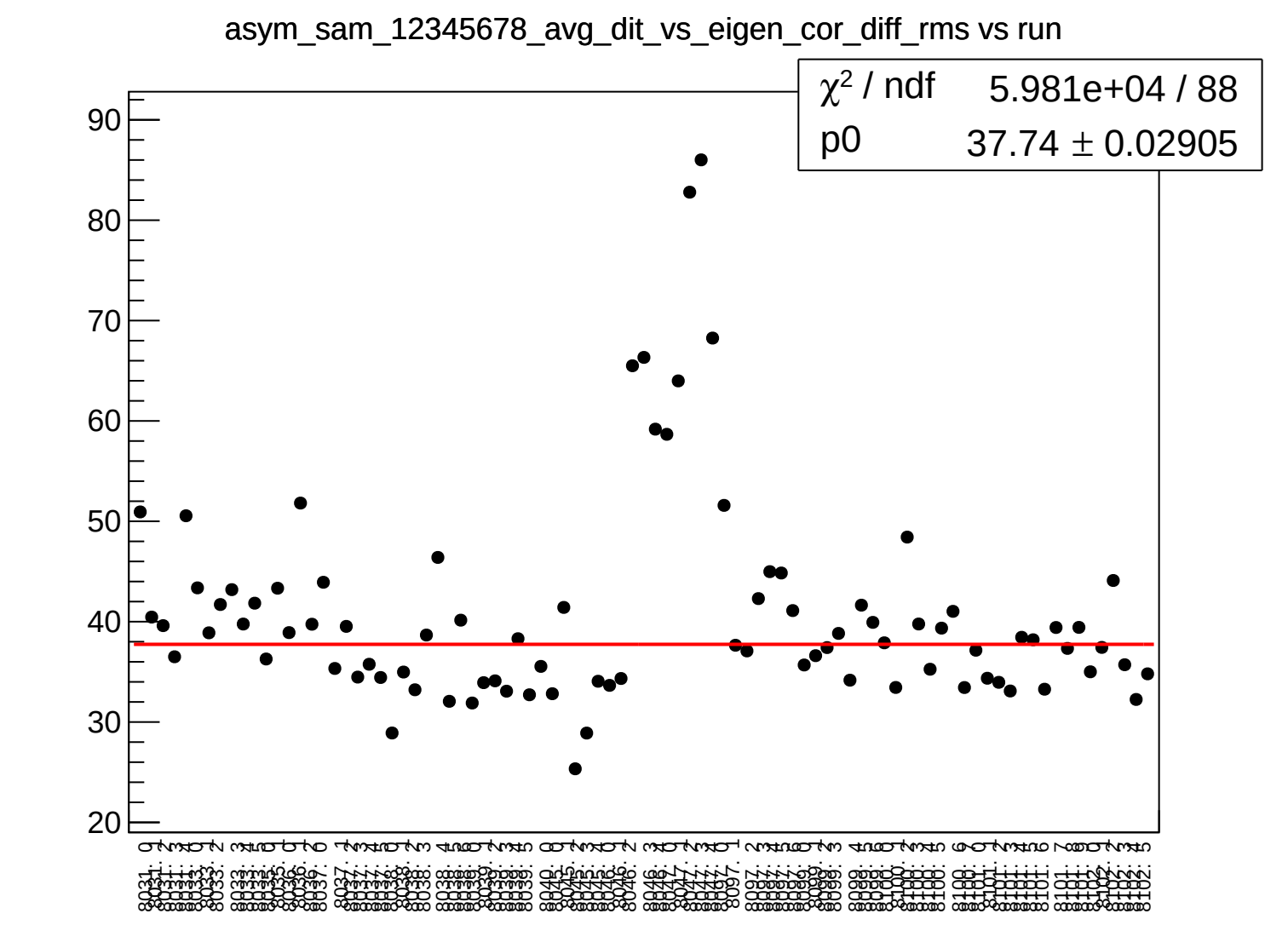

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.658e+05 / 88
p0 7.901e−11 ± 8.937e−14
0.1
0.08
0.06
0.04
0.02
0

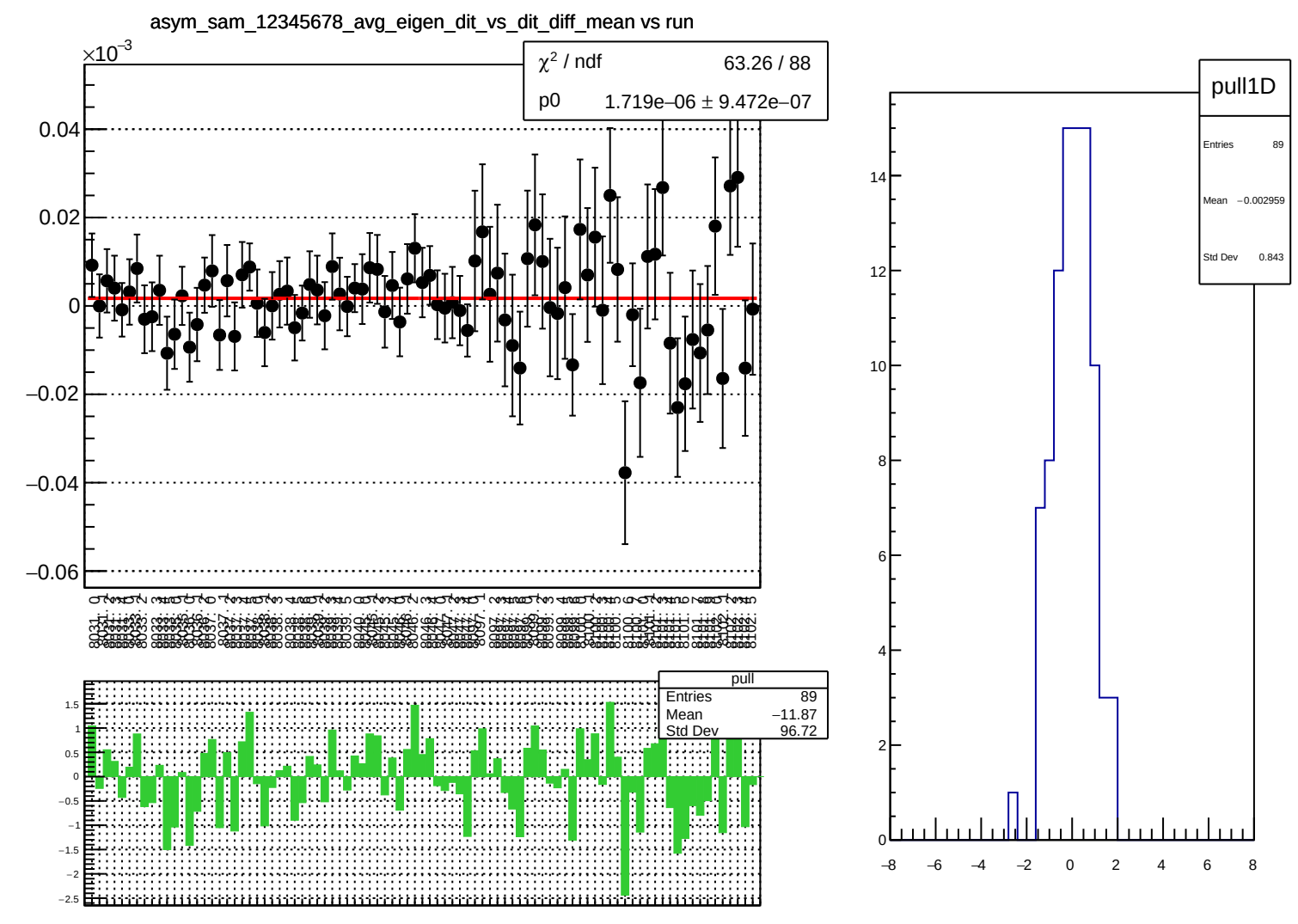

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 89.35 / 88
p0 −0.03814 ± 0.04109
pull
Entries 89
Mean −79.6
Std Dev 0

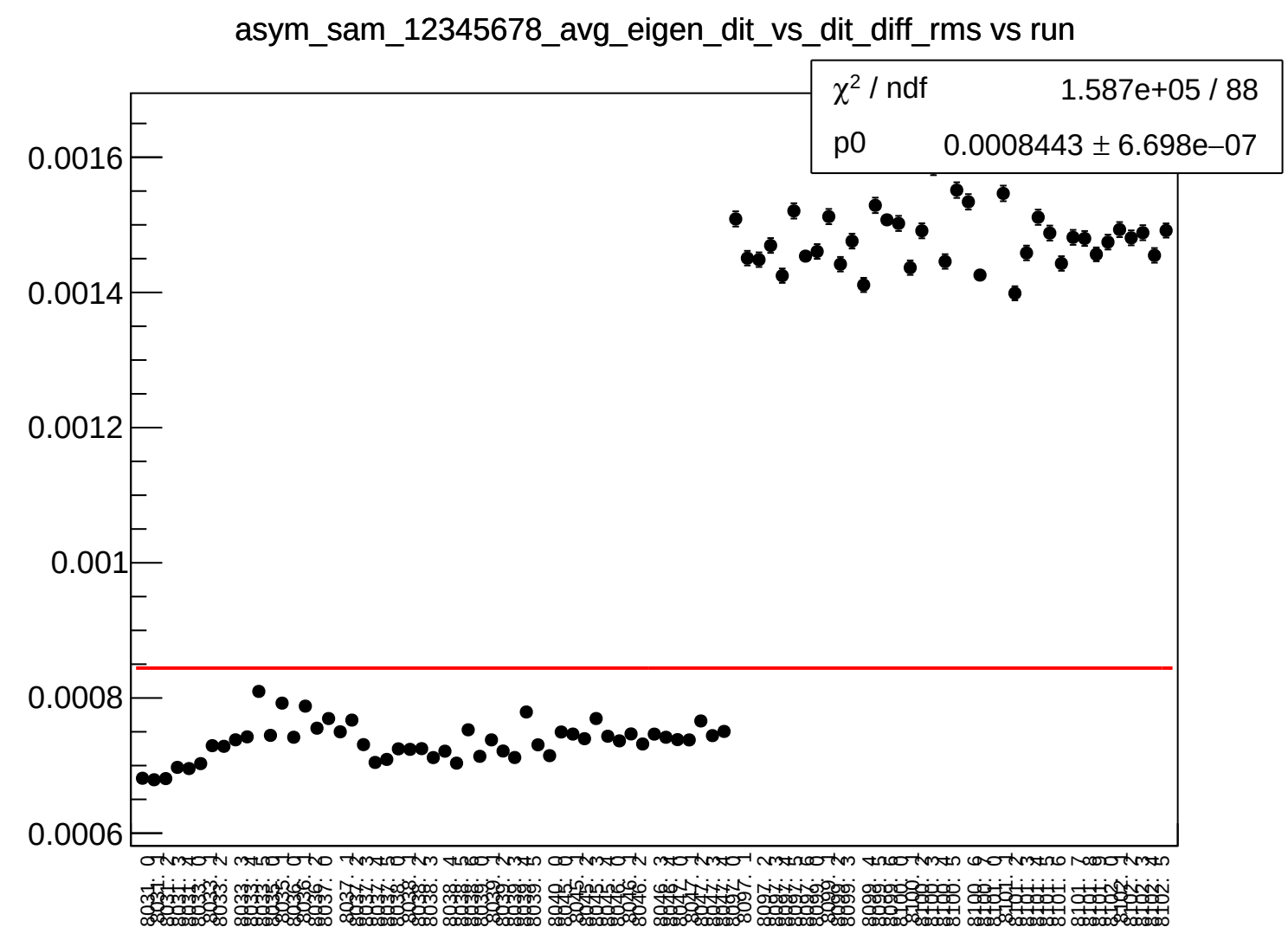

pull1D
Entries 89
Mean 0.003396
Std Dev 1.002

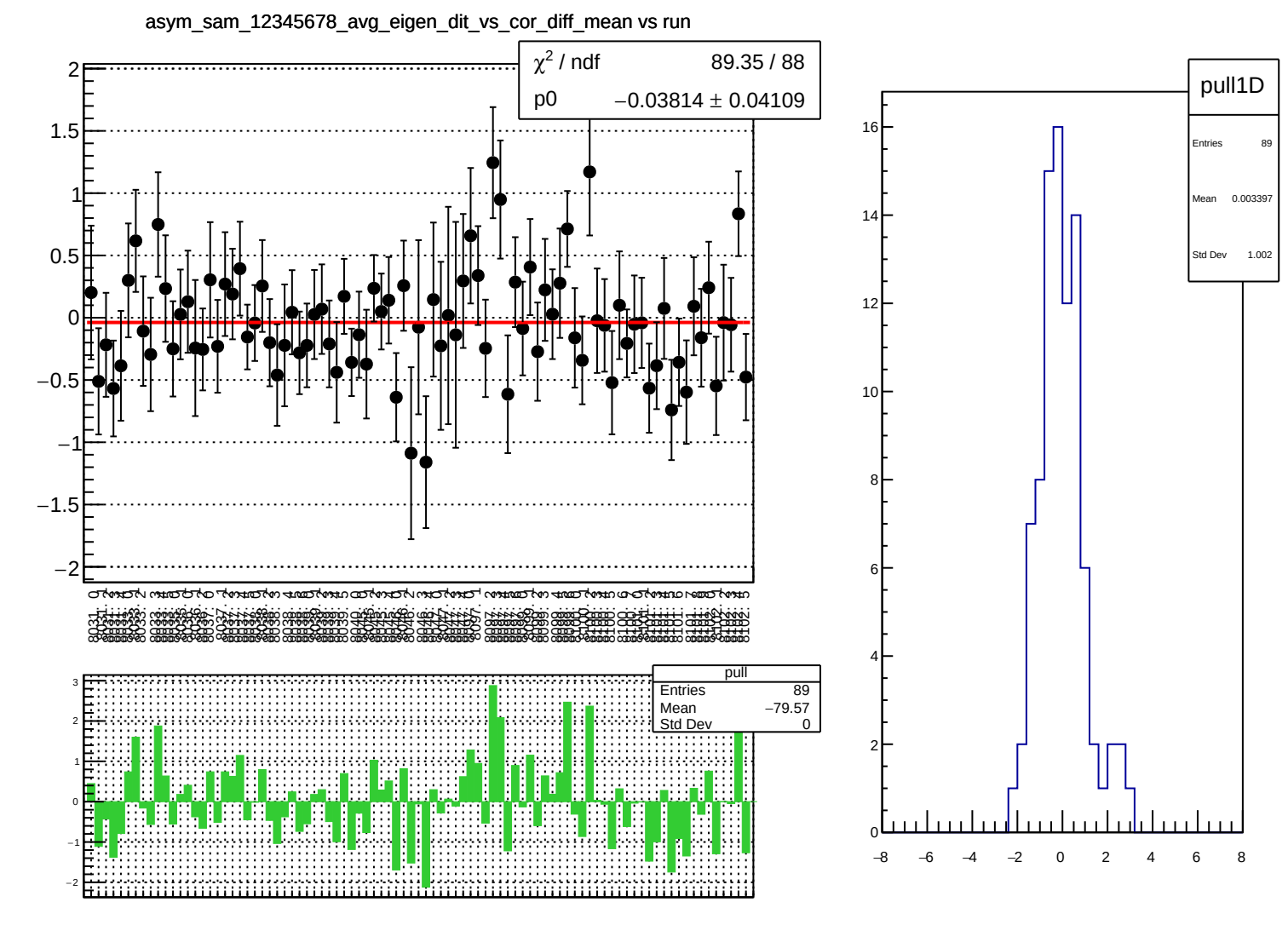

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.981e+04 / 88
p0 37.74 ± 0.02905
90
80
70
60
50
40
30
20

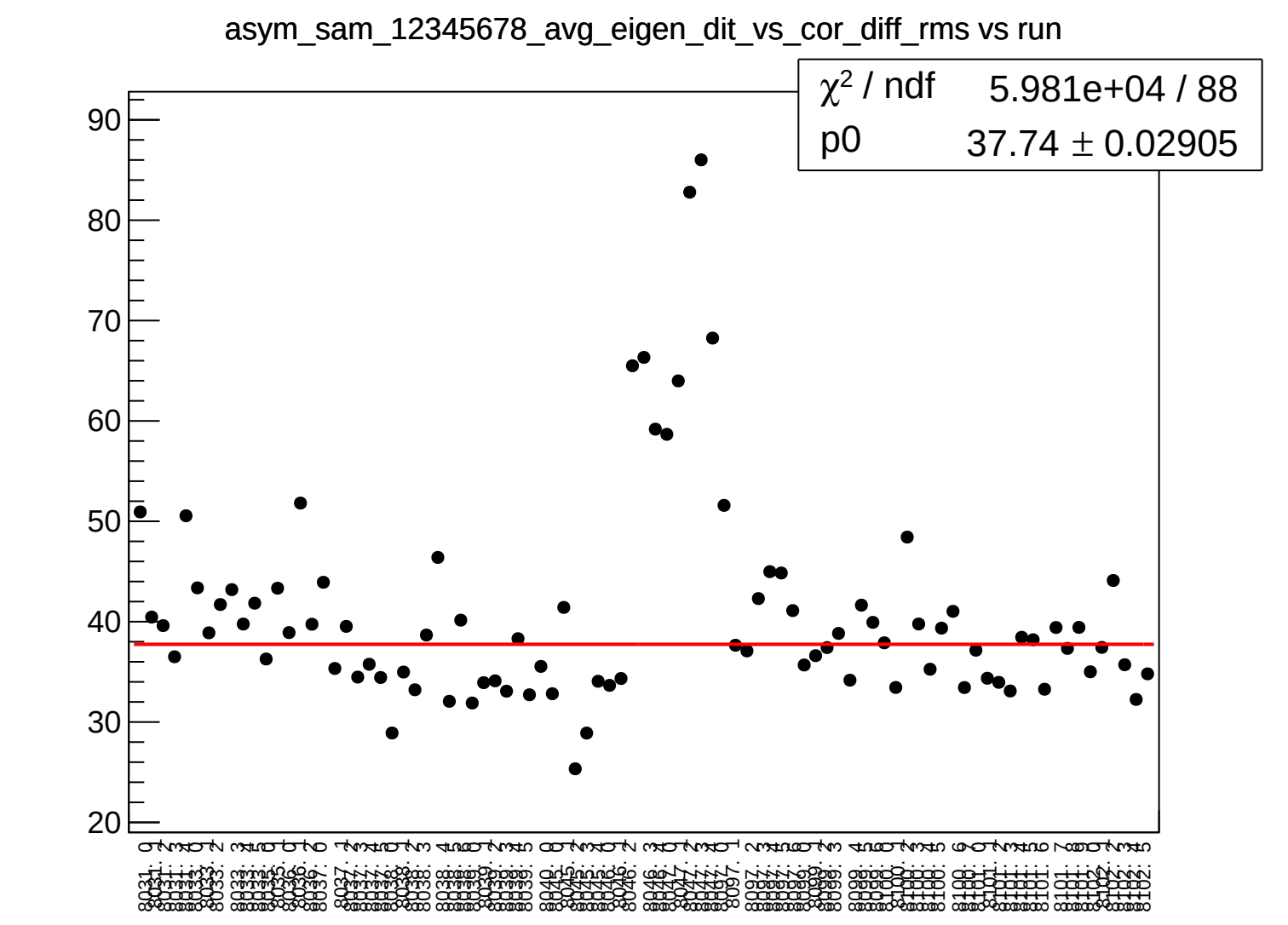

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.35 / 88
p0 −0.03814 ± 0.04109
pull
Entries 89
Mean −79.6
Std Dev 0
pull1D
Entries 89
Mean 0.003396
Std Dev 1.002

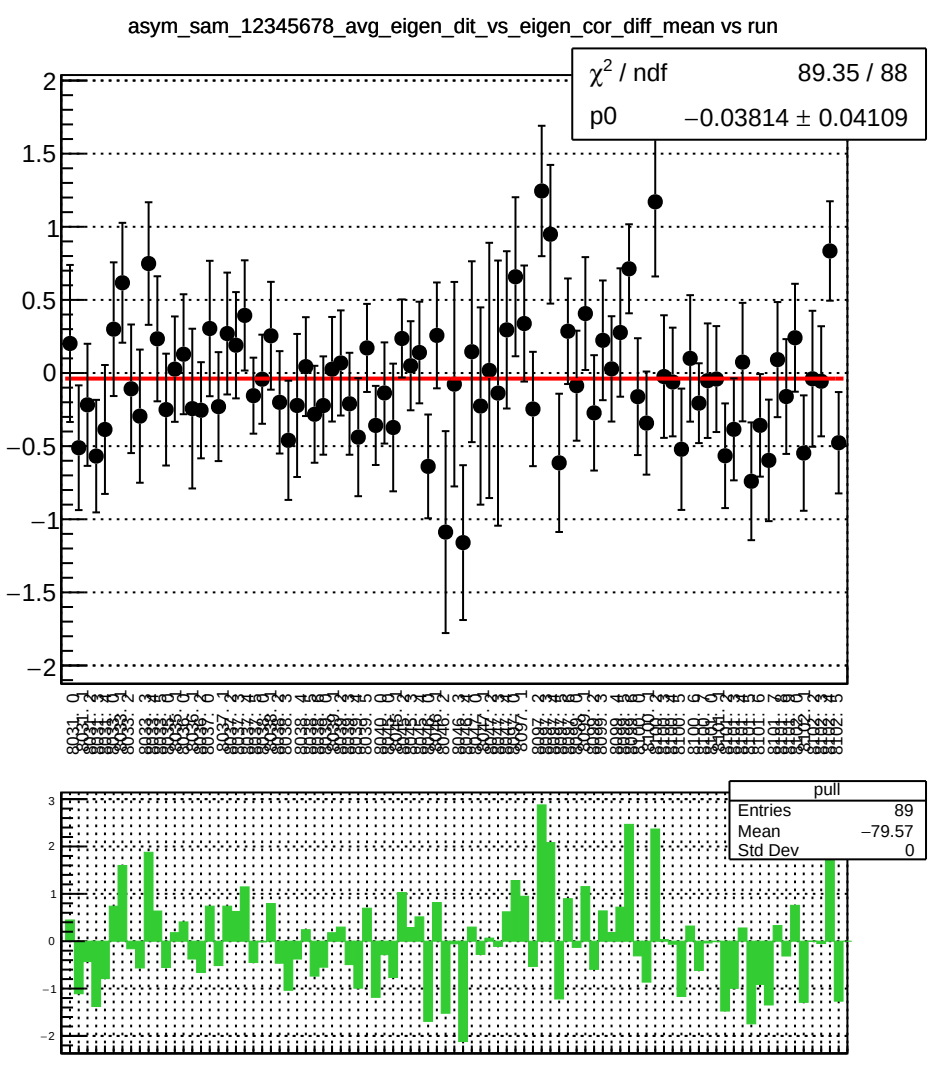

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.981e+04 / 88
p0 37.74 ± 0.02905
90
80
70
60
50
40
30
20

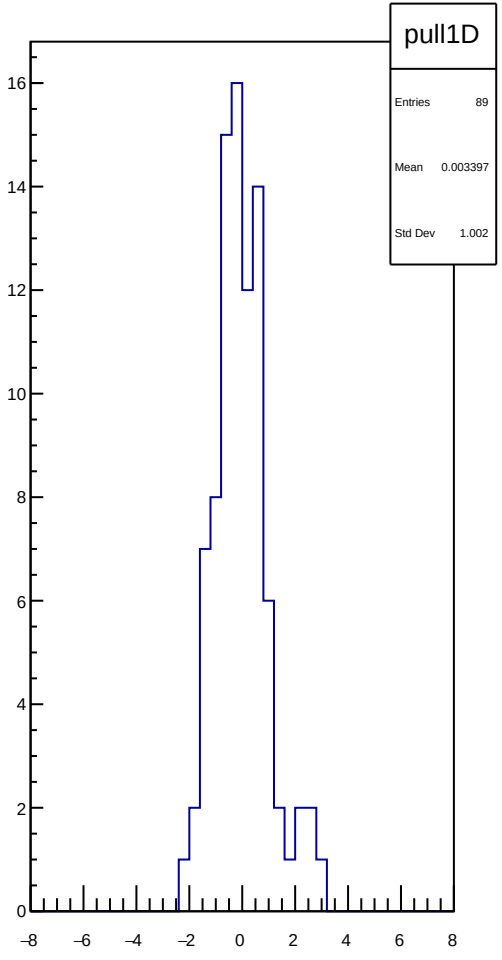

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 63.26 / 88
p0 1.719e−06 ± 9.472e−07
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 89
Mean −11.87
Std Dev 96.72
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 89
Mean −0.002959
Std Dev 0.843
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

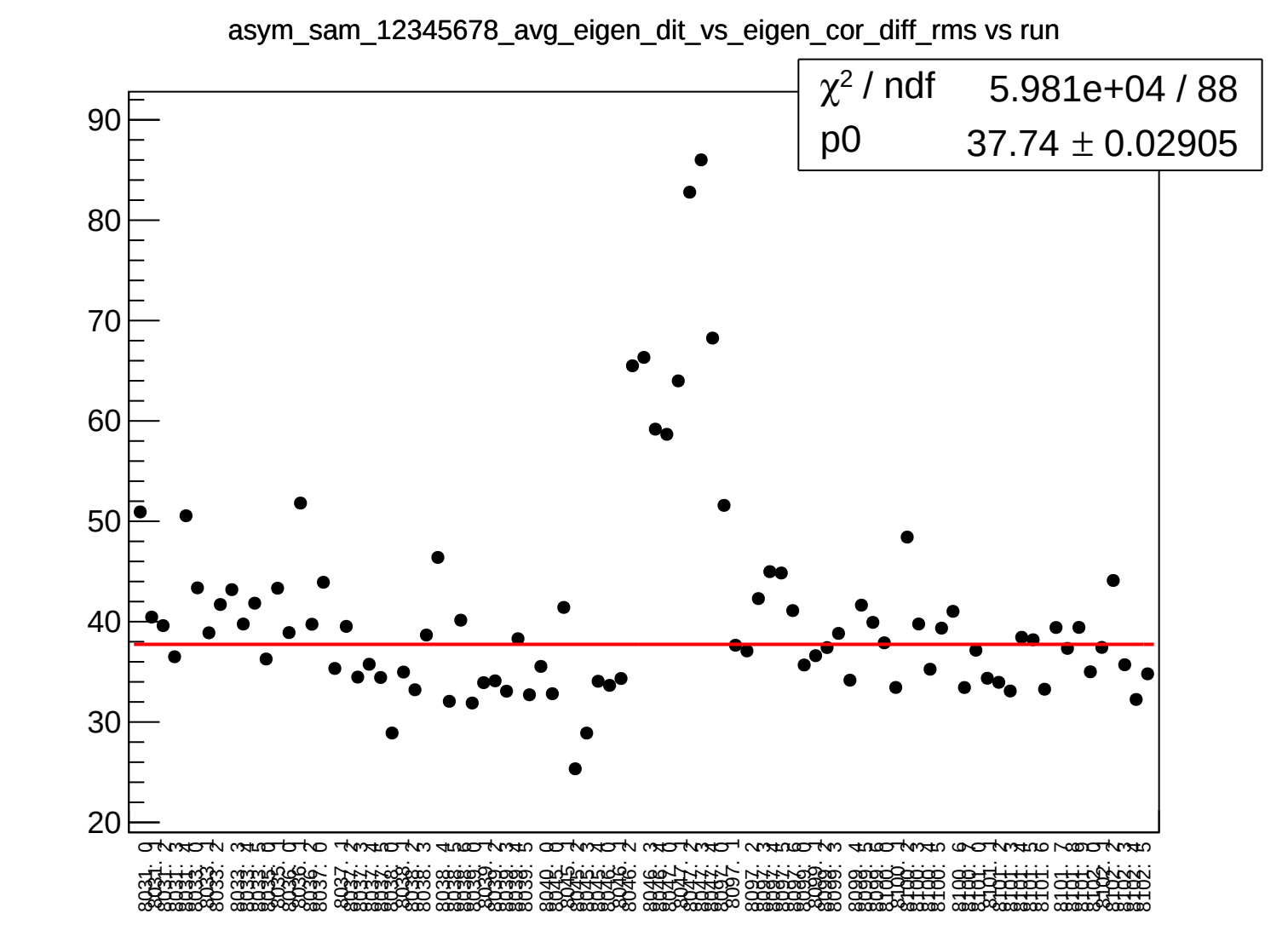

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.587e+05 / 88
p0 0.0008443 ± 6.698e−07
0.0016
0.0014
0.0012
0.001
0.0008
0.0006

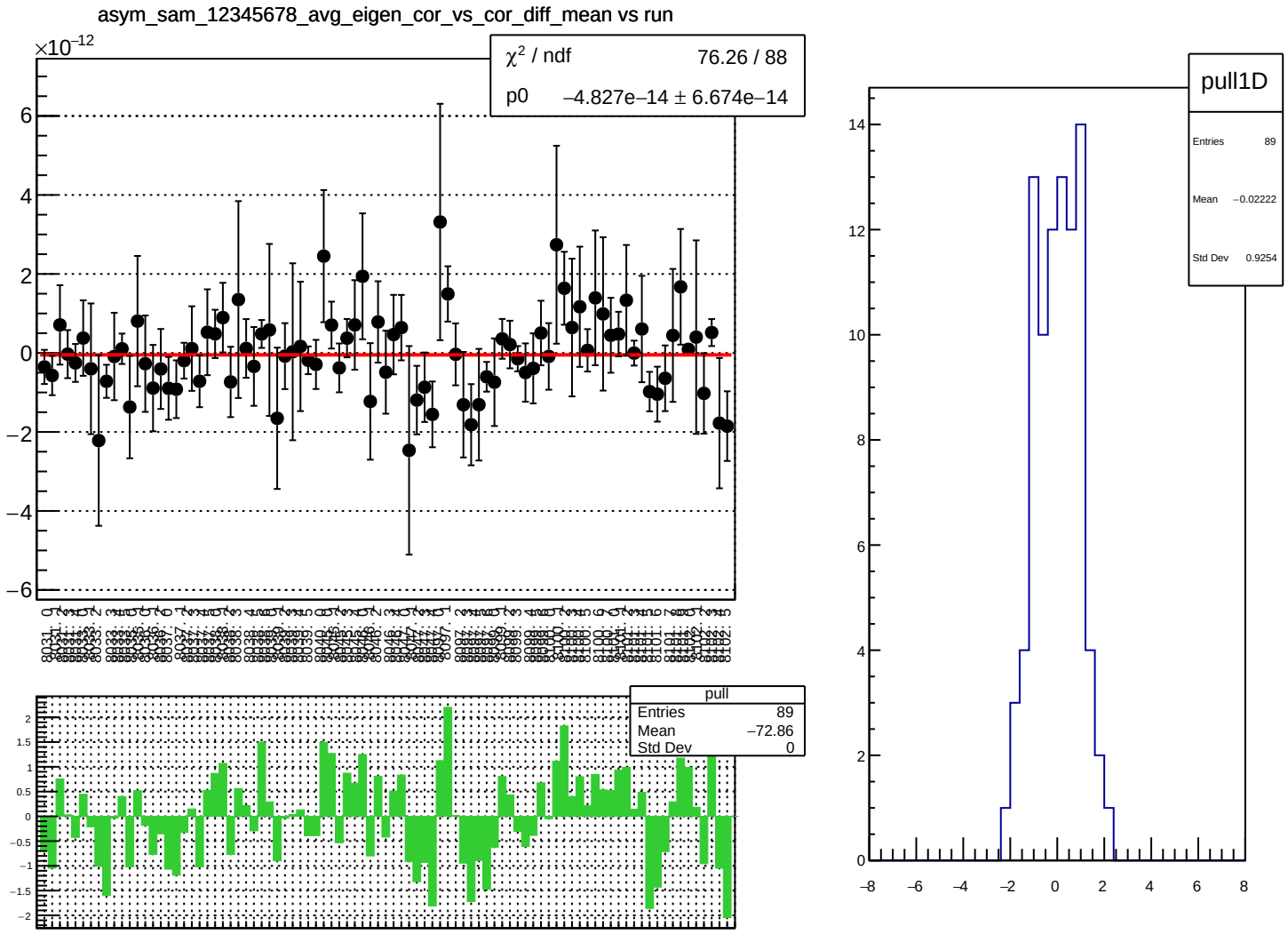

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.35 / 88
p0 −0.03814 ± 0.04109
pull
Entries 89
Mean −79.57
Std Dev 0
pull1D
Entries 89
Mean 0.003397
Std Dev 1.002

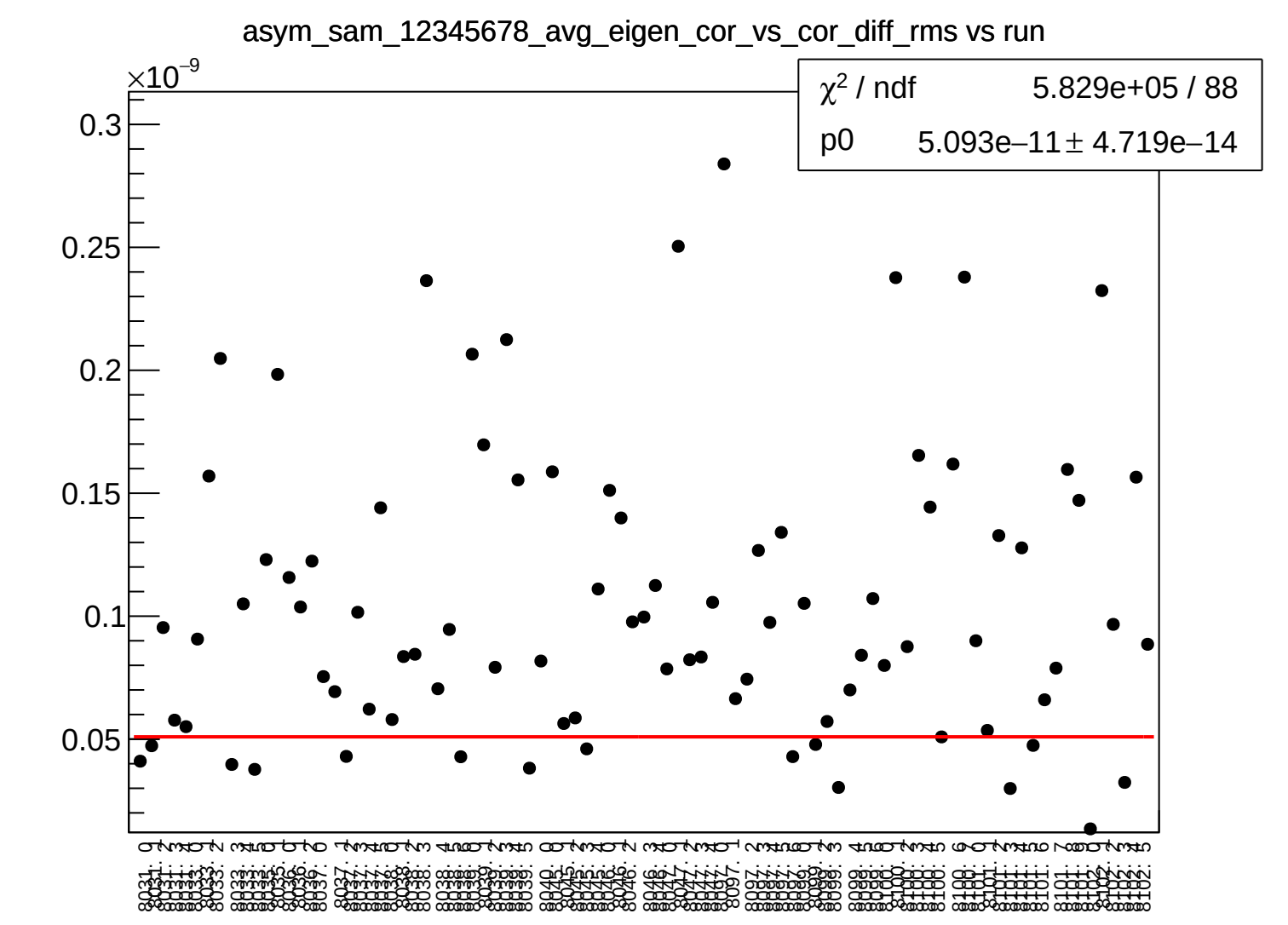

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.981e+04 / 88
p0 37.74 ± 0.02905
90
80
70
60
50
40
30
20

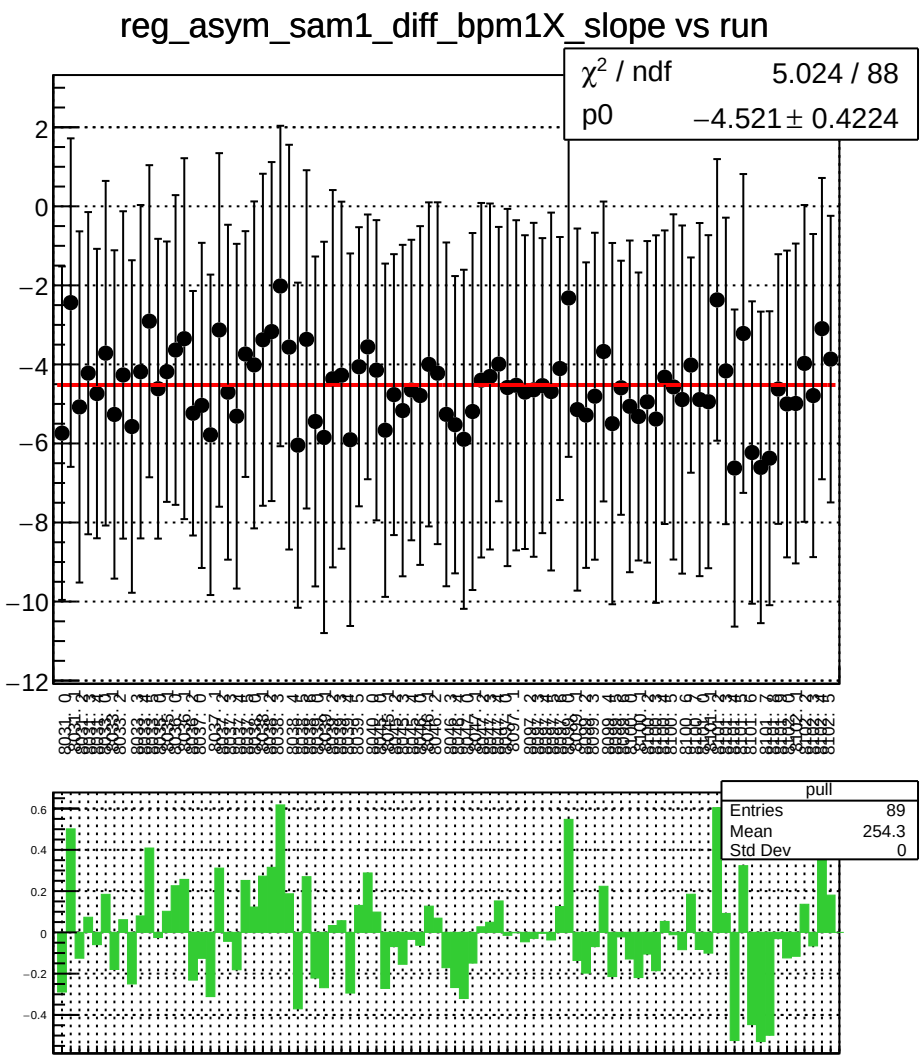

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.35 / 88
p0 −0.03814 ± 0.04109
pull
Entries 89
Mean −79.57
Std Dev 0

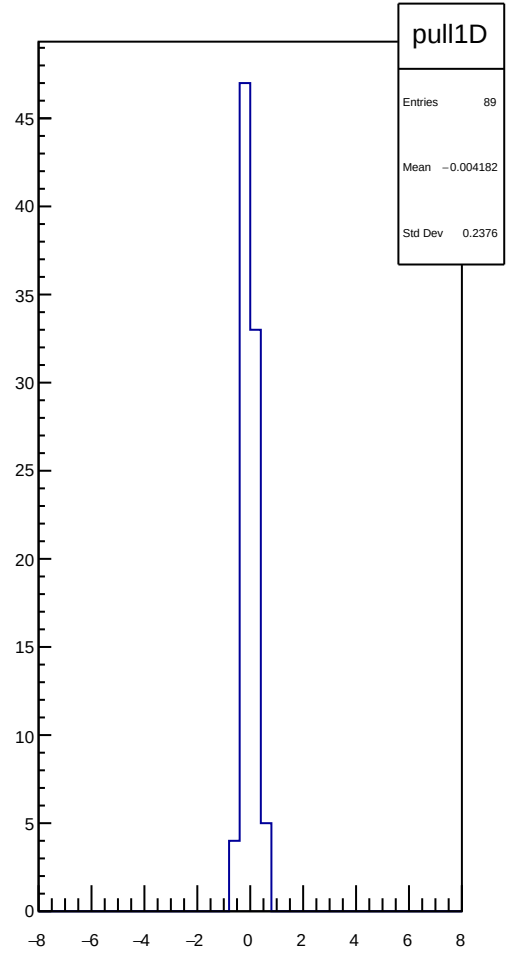

pull1D
Entries 89
Mean 0.003397
Std Dev 1.002

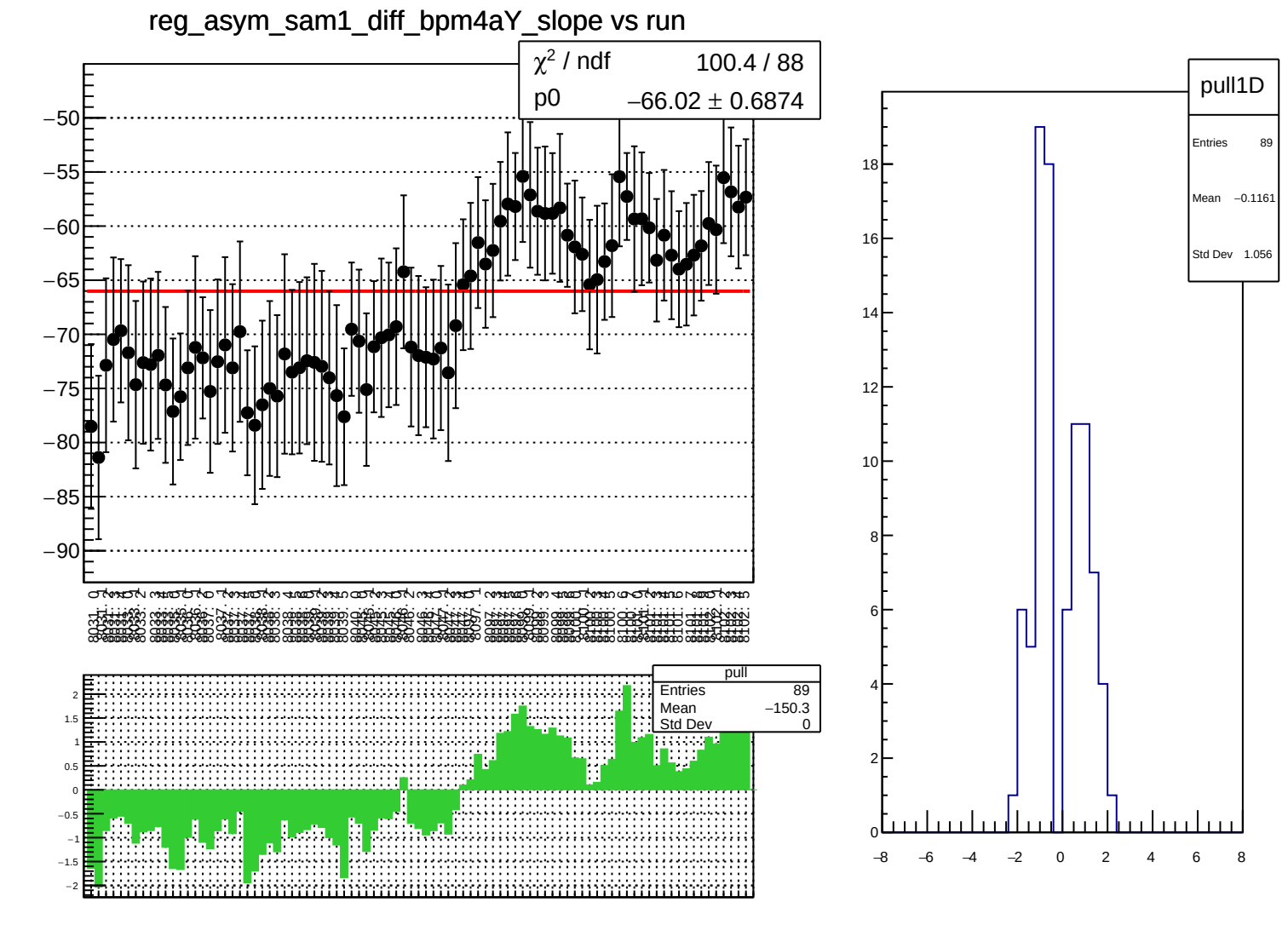

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.981e+04 / 88
p0 37.74 ± 0.02905
90
80
70
60
50
40
30
20

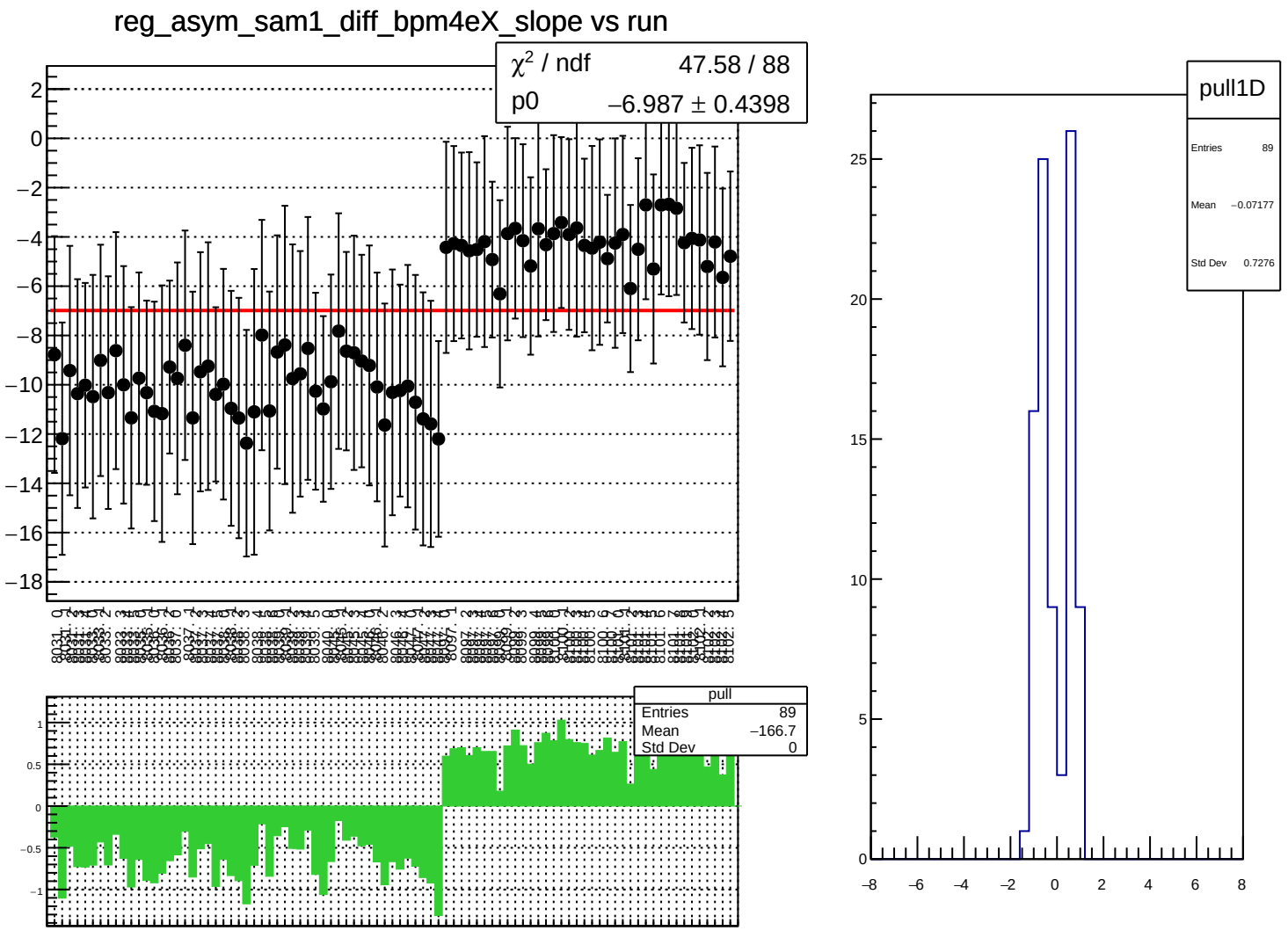

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.26 / 88
p0 −4.827e−14 ± 6.674e−14
pull
Entries 89
Mean −72.86
Std Dev 0
pull1D
Entries 89
Mean −0.02222
Std Dev 0.9254

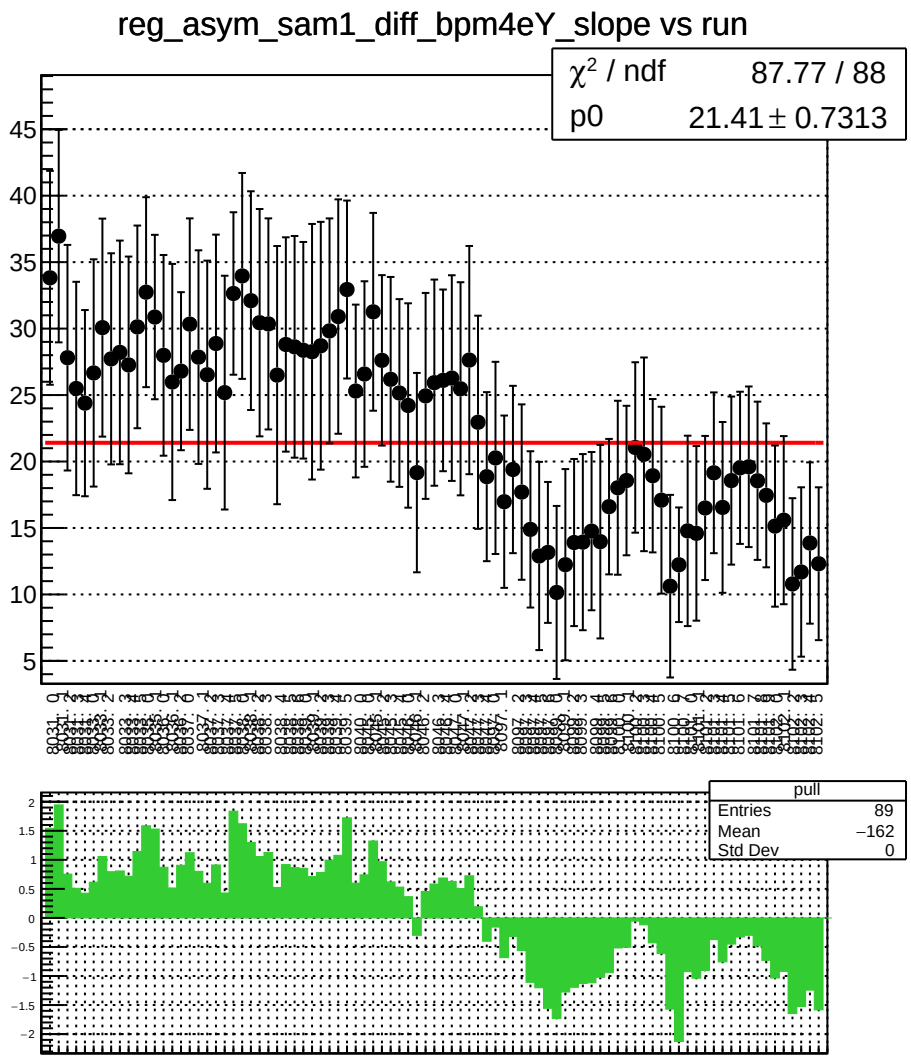

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.829e+05 / 88
p0 5.093e−11 ± 4.719e−14
0.3
0.25
0.2
0.15
0.1
0.05

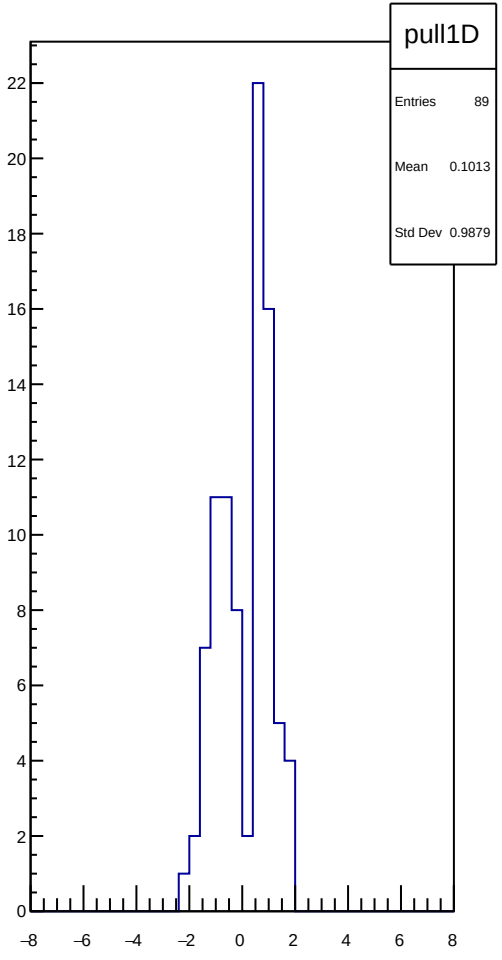

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 5.024 / 88
p0 −4.521 ± 0.4224
pull
Entries 89
Mean 254.3
Std Dev 0

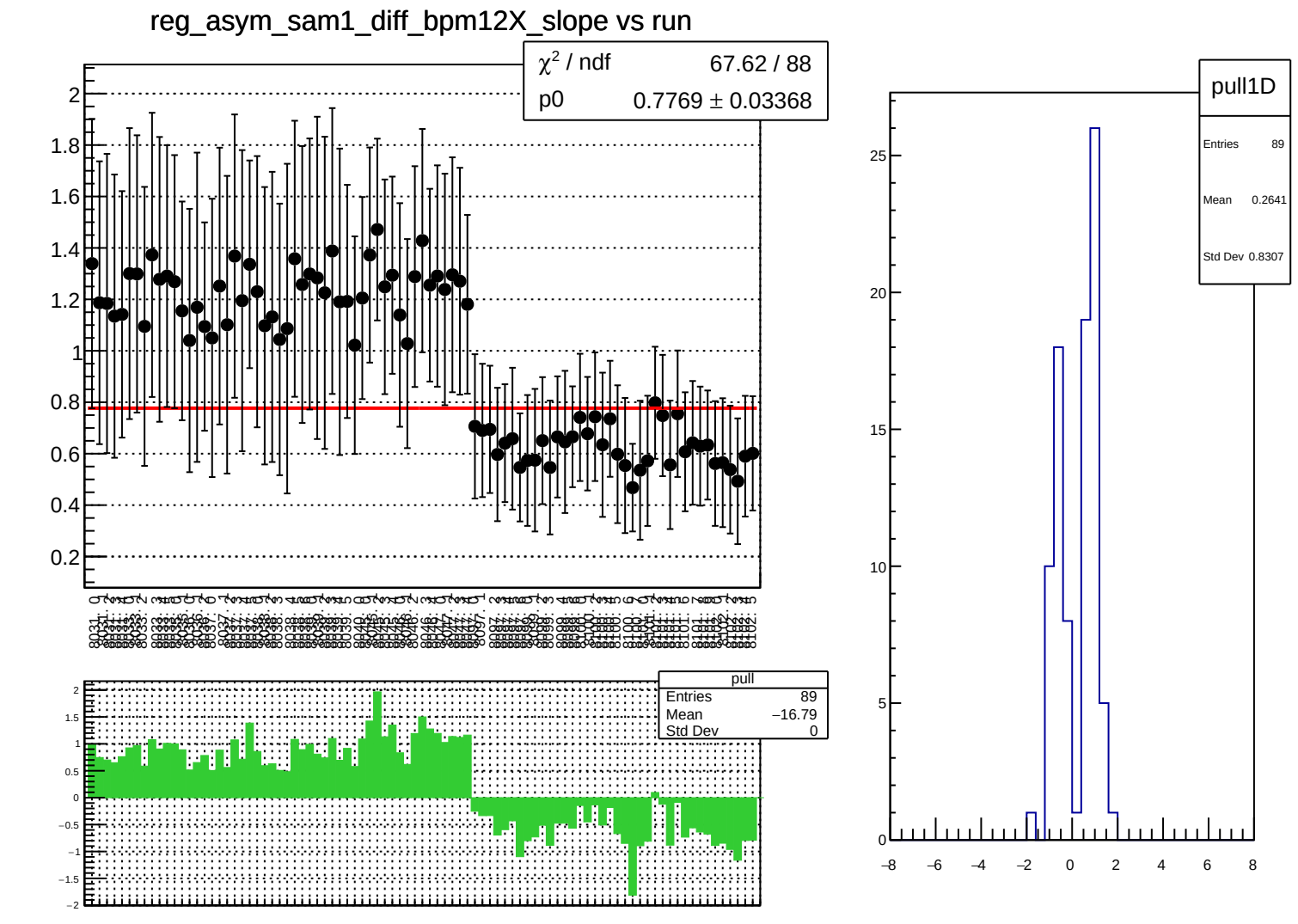

pull1D
Entries 89
Mean −0.004182
Std Dev 0.2376

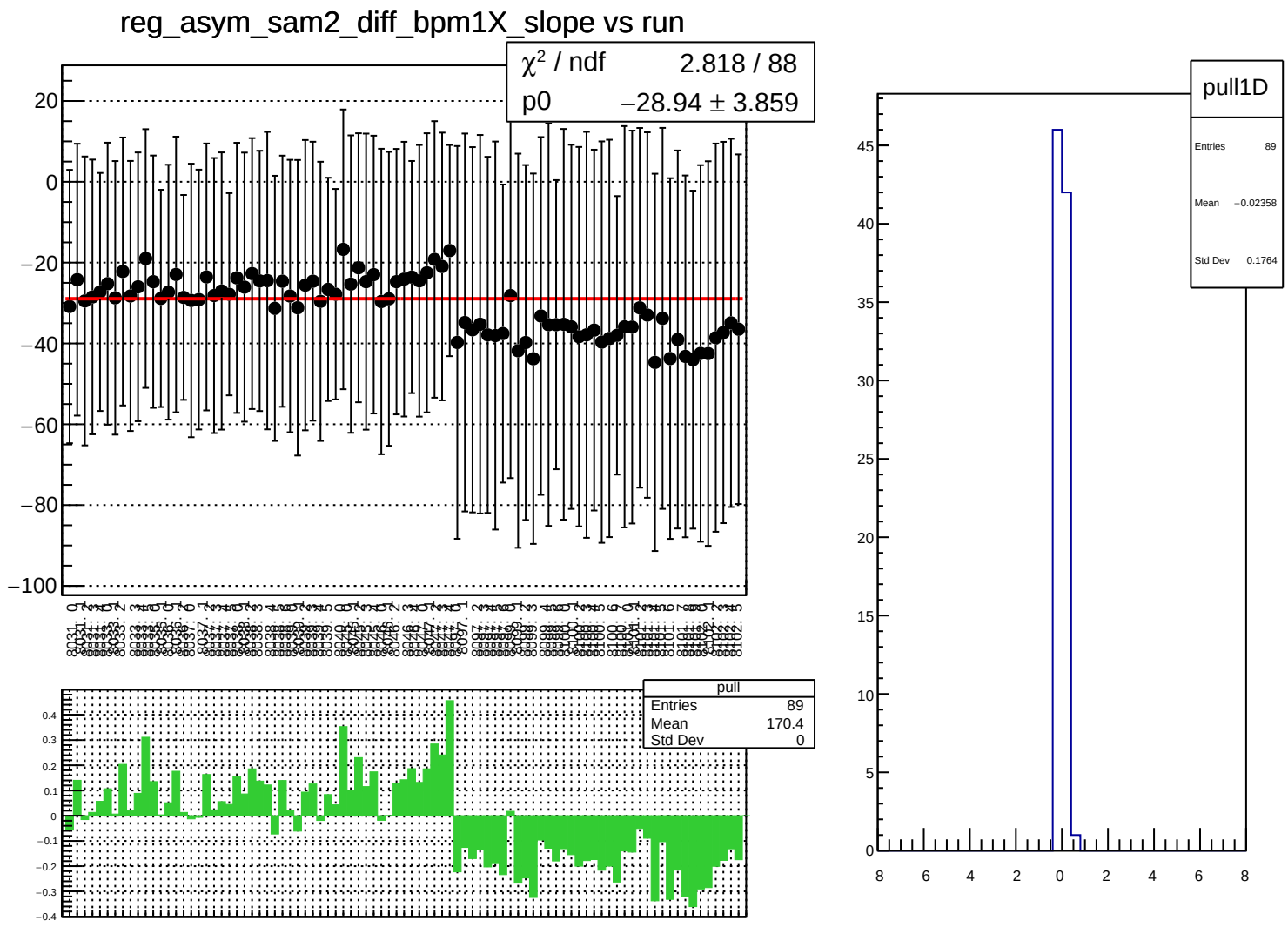

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 100.4 / 88
p0 −66.02 ± 0.6874
pull
Entries 89
Mean −150.3
Std Dev 0
pull1D
Entries 89
Mean −0.1161
Std Dev 1.056

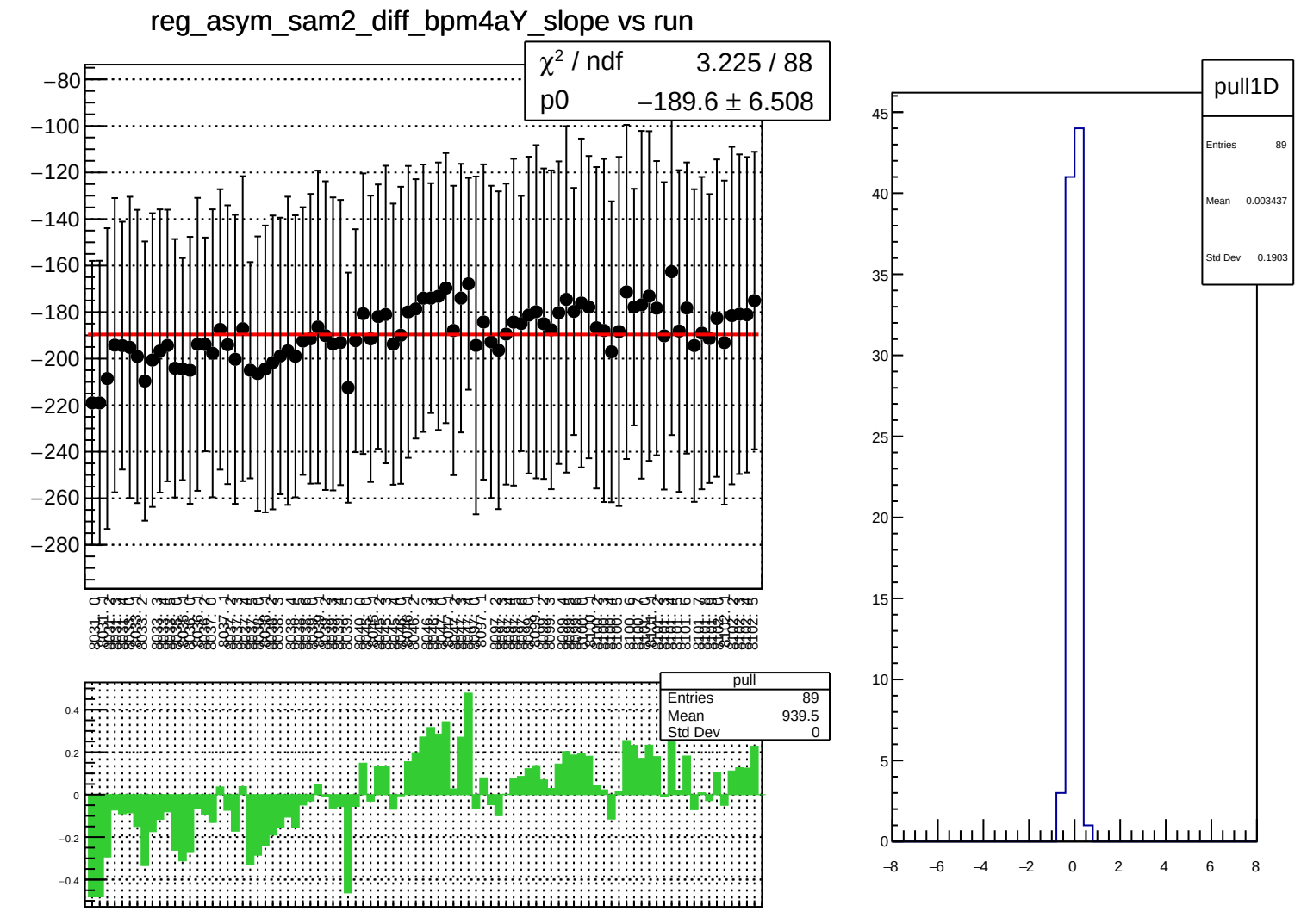

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 47.58 / 88
p0 −6.987 ± 0.4398
pull
Entries 89
Mean −166.7
Std Dev 0
pull1D
Entries 89
Mean −0.07177
Std Dev 0.7276

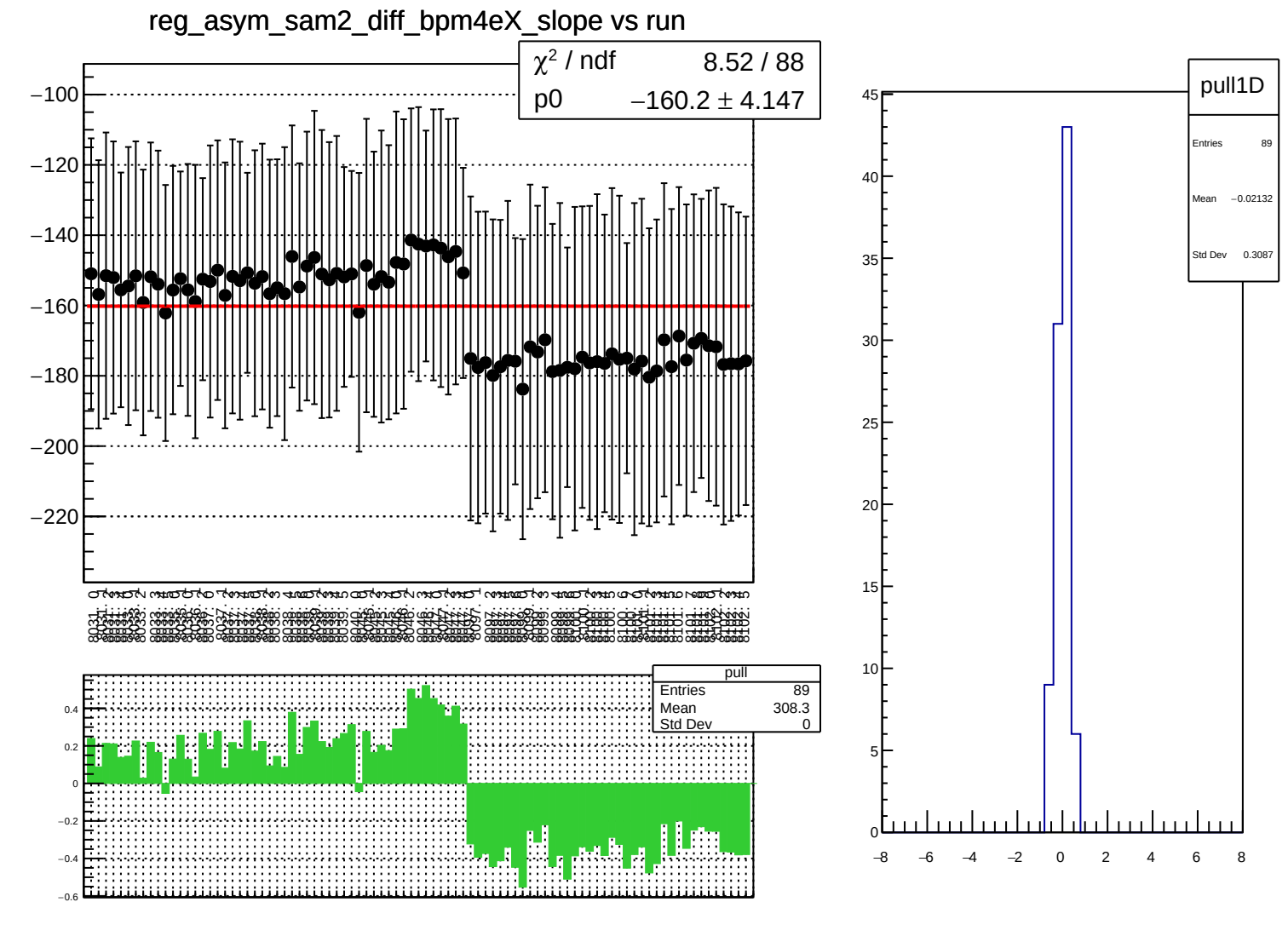

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 87.77 / 88
p0 21.41 ± 0.7313
pull
Entries 89
Mean −162
Std Dev 0

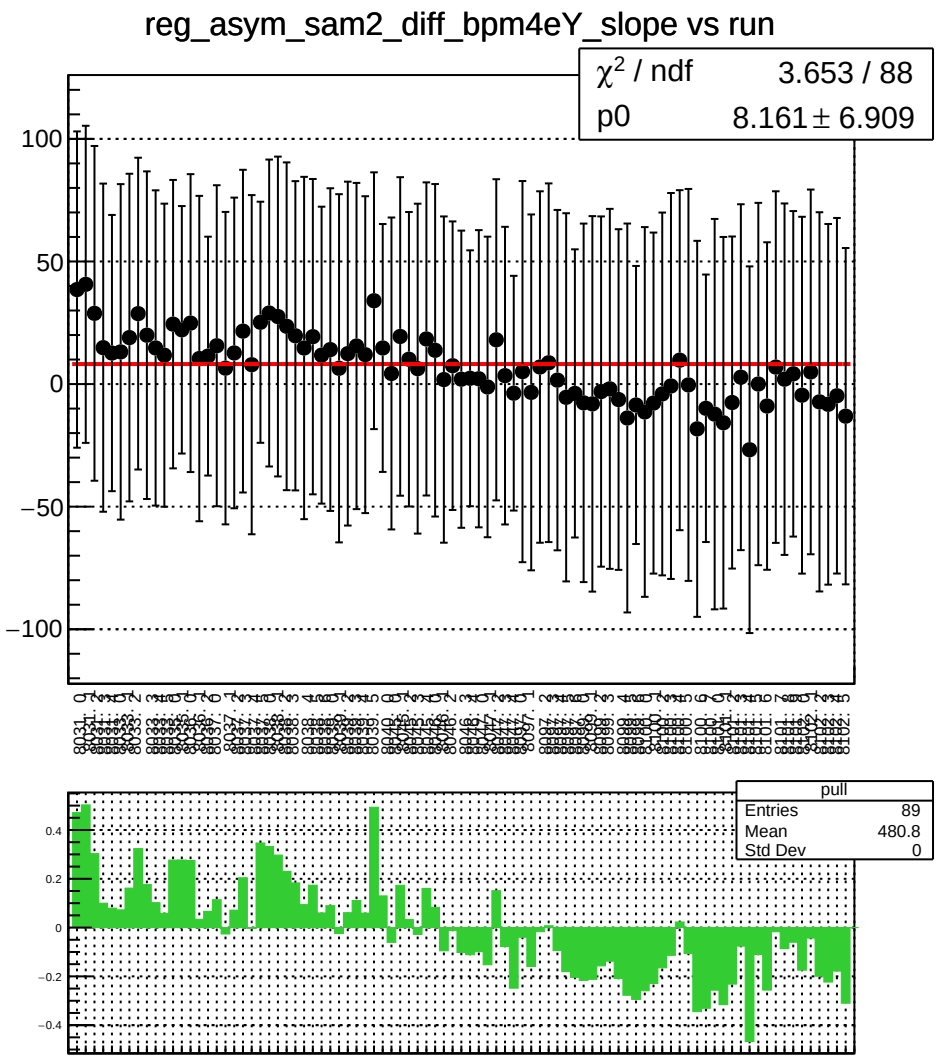

pull1D
Entries 89
Mean 0.1013
Std Dev 0.9879

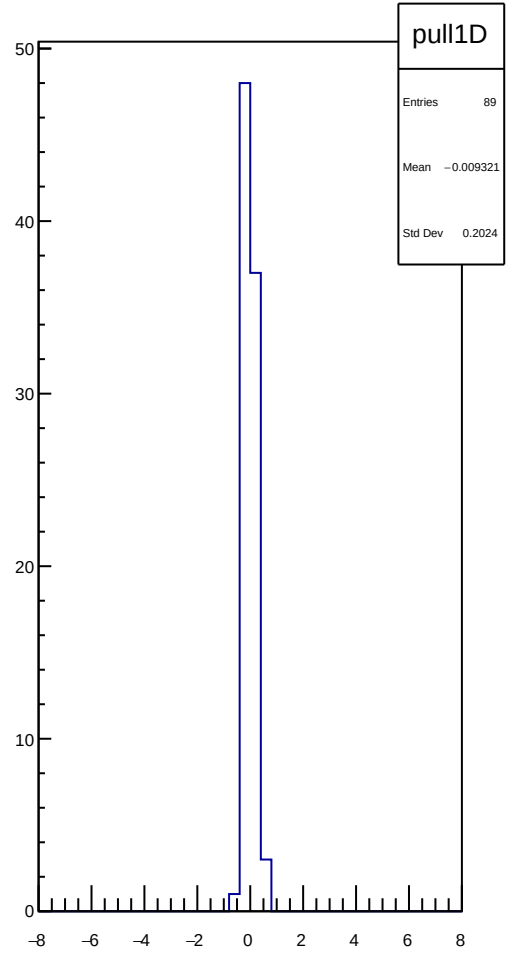

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 67.62 / 88
p0 0.7769 ± 0.03368
pull
Entries 89
Mean −16.79
Std Dev 0
pull1D
Entries 89
Mean 0.2641
Std Dev 0.8307

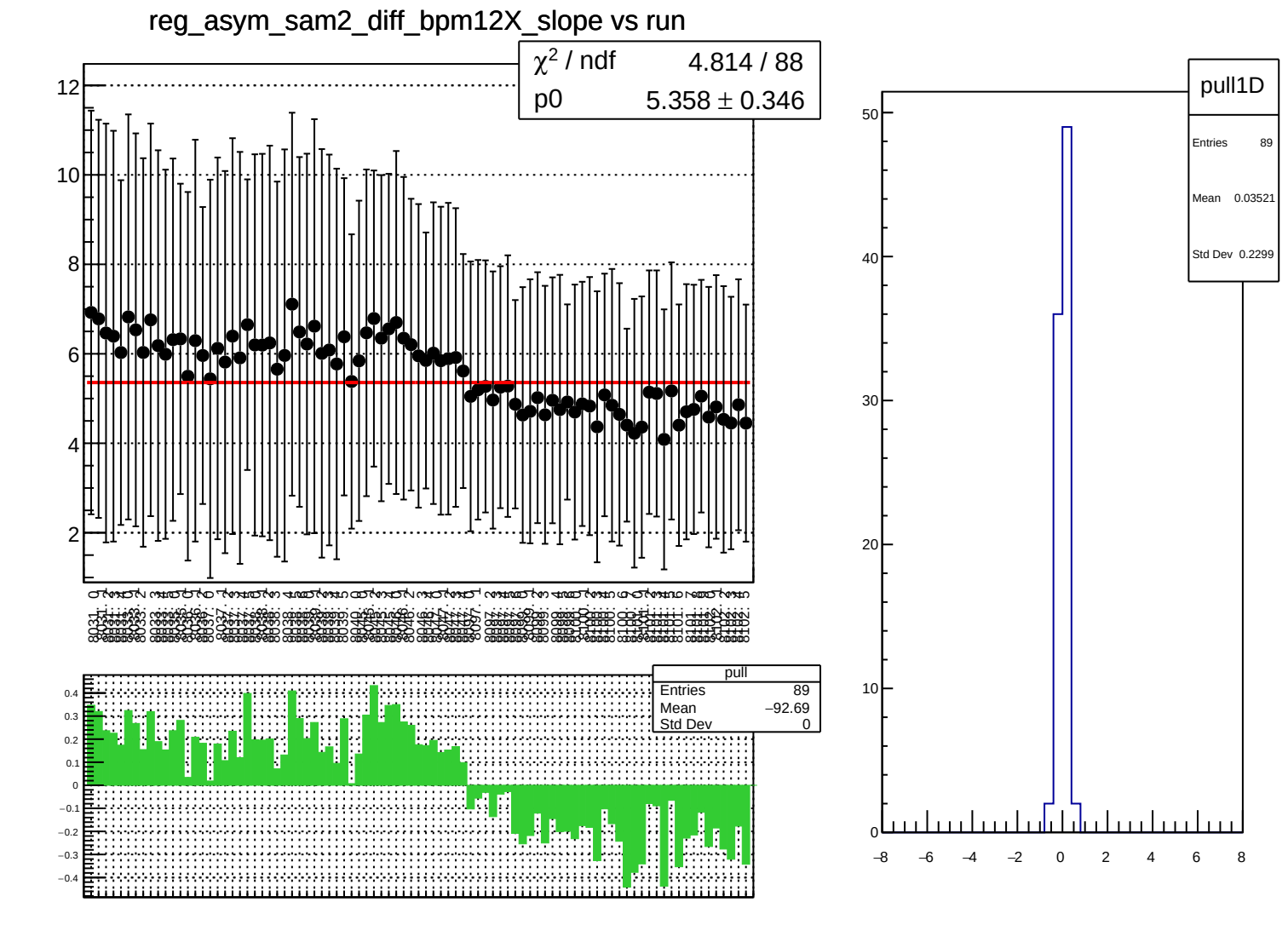

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 2.818 / 88
p0 −28.94 ± 3.859
pull
Entries 89
Mean 170.4
Std Dev 0
pull1D
Entries 89
Mean −0.02358
Std Dev 0.1764

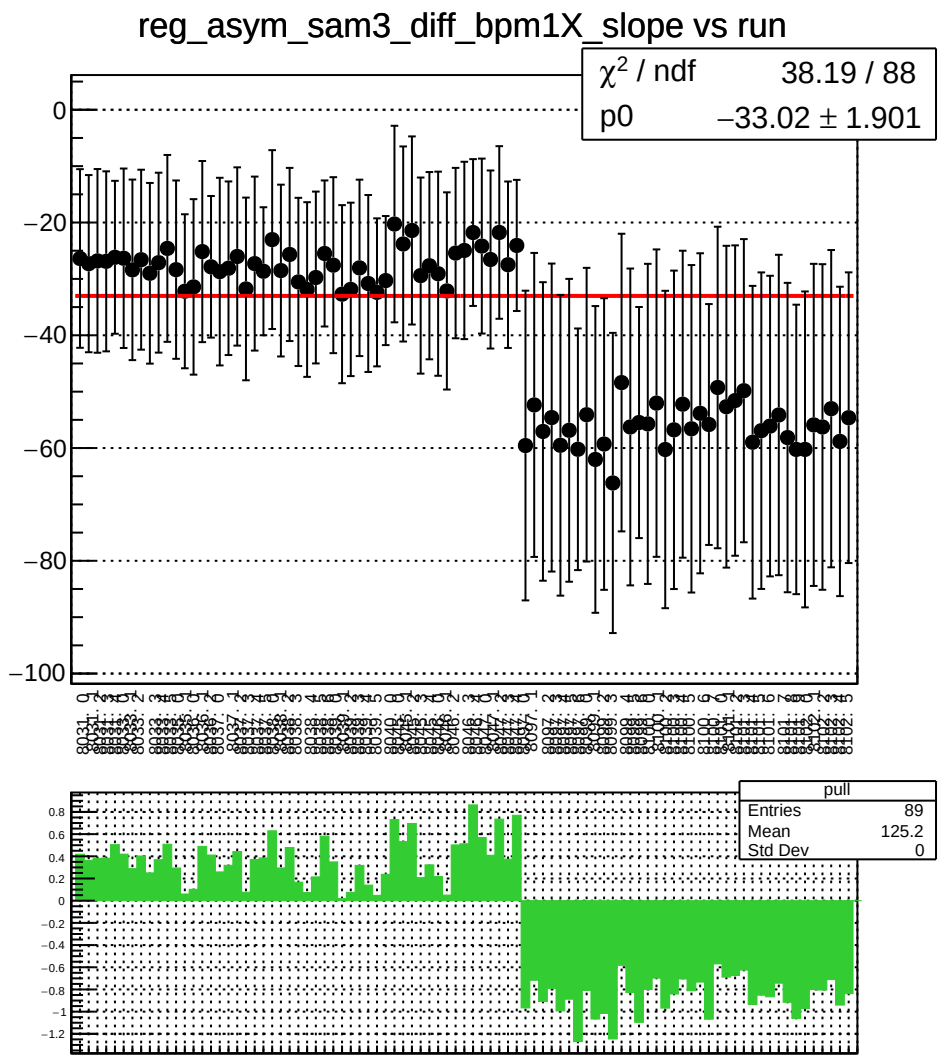

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 3.225 / 88
p0 −189.6 ± 6.508
pull
Entries 89
Mean 939.5
Std Dev 0
pull1D
Entries 89
Mean 0.003437
Std Dev 0.1903

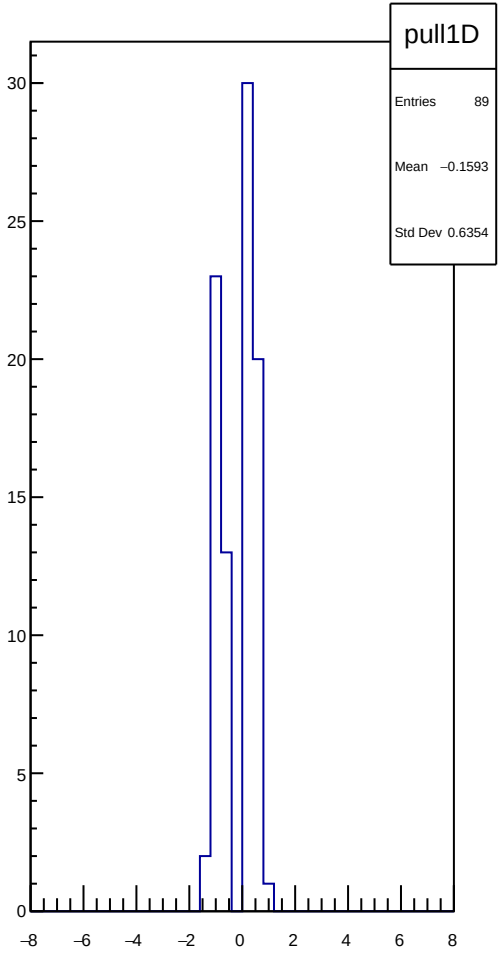

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 8.52 / 88
p0 −160.2 ± 4.147
pull
Entries 89
Mean 308.3
Std Dev 0
pull1D
Entries 89
Mean −0.02132
Std Dev 0.3087

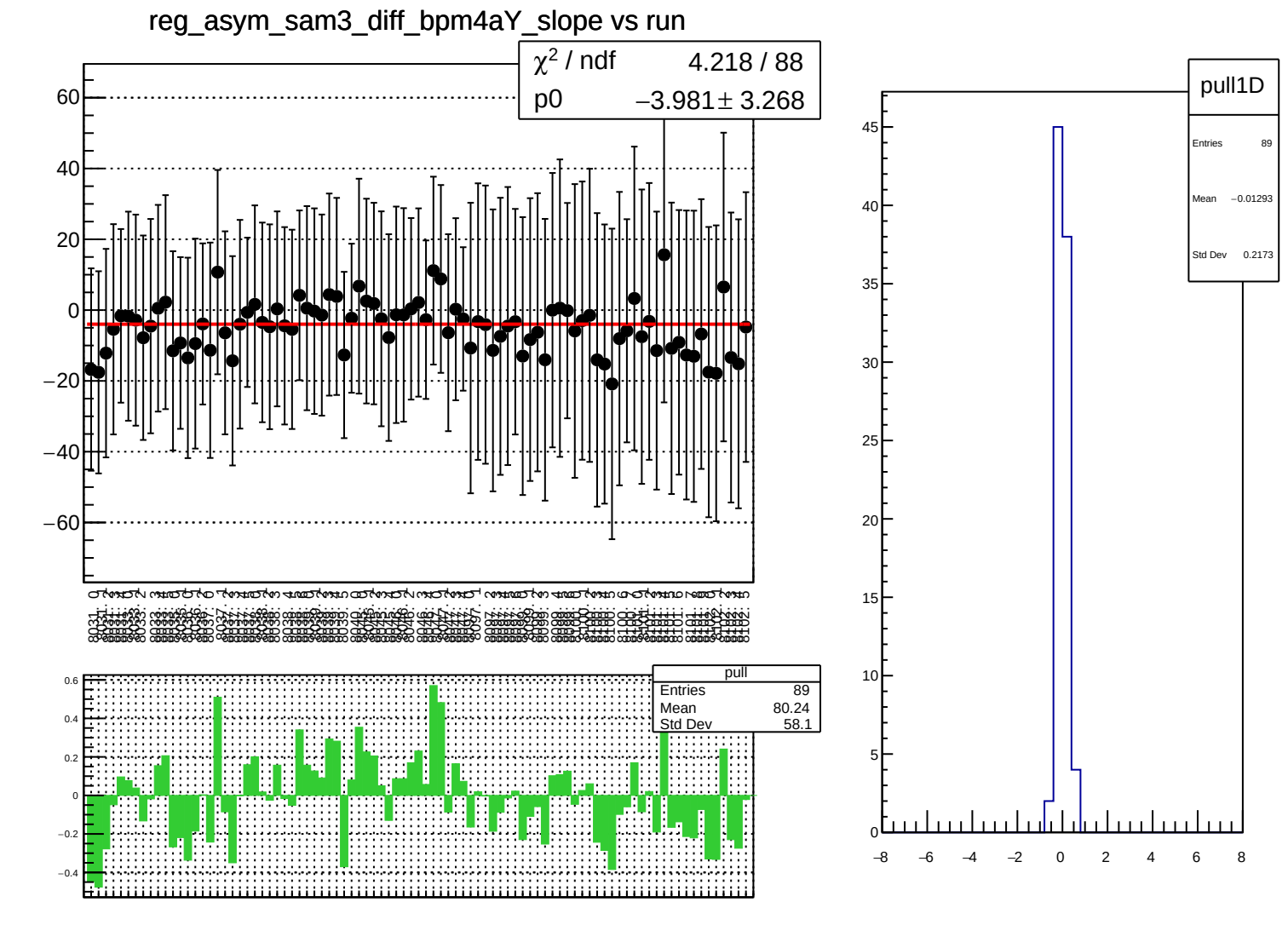

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 3.653 / 88
p0 8.161 ± 6.909
100
50
0
−50
−100
pull
Entries 89
Mean 480.8
Std Dev 0
0.4
0.2
0
−0.2
−0.4

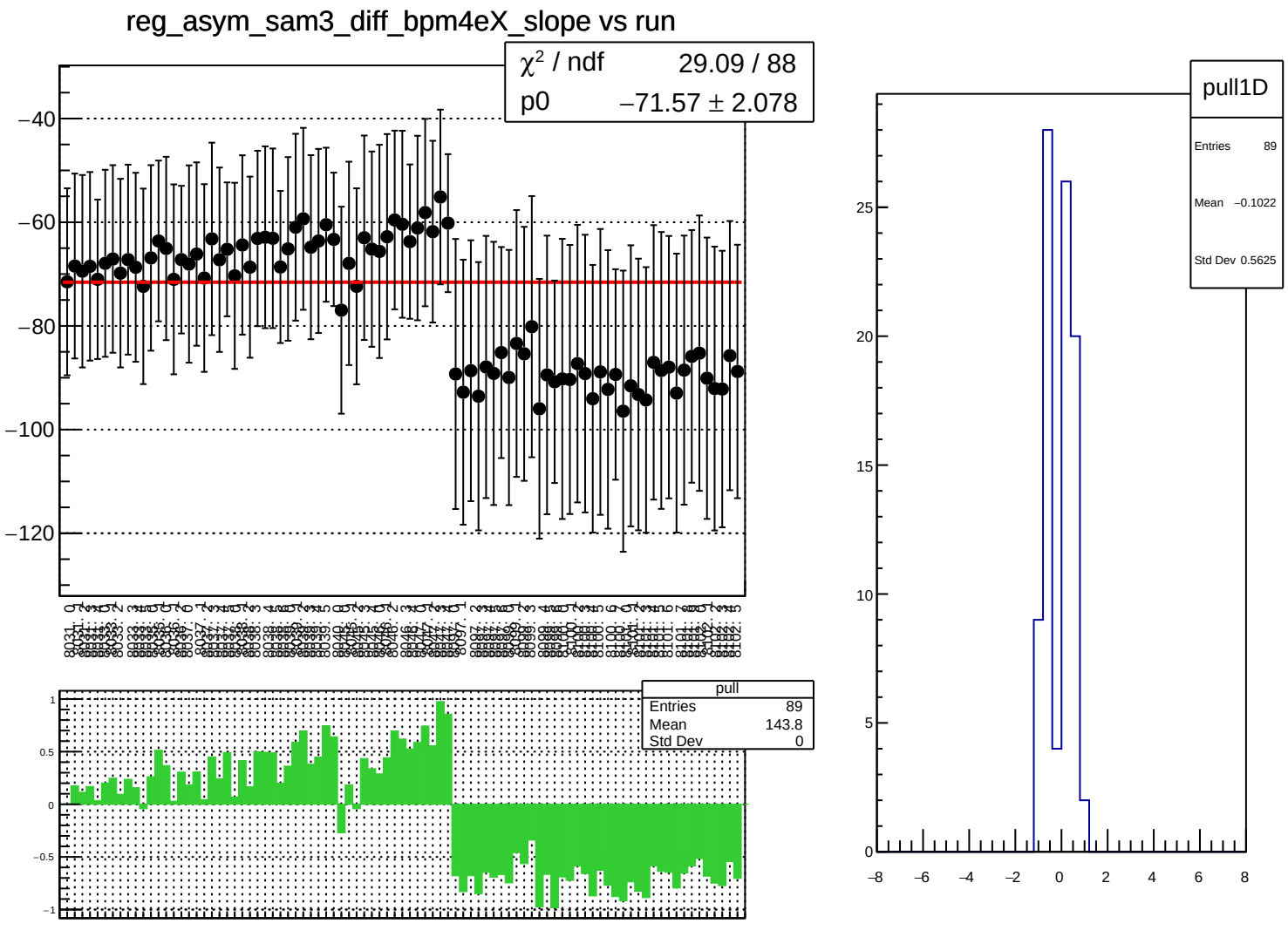

pull1D
Entries 89
Mean −0.009321
Std Dev 0.2024
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

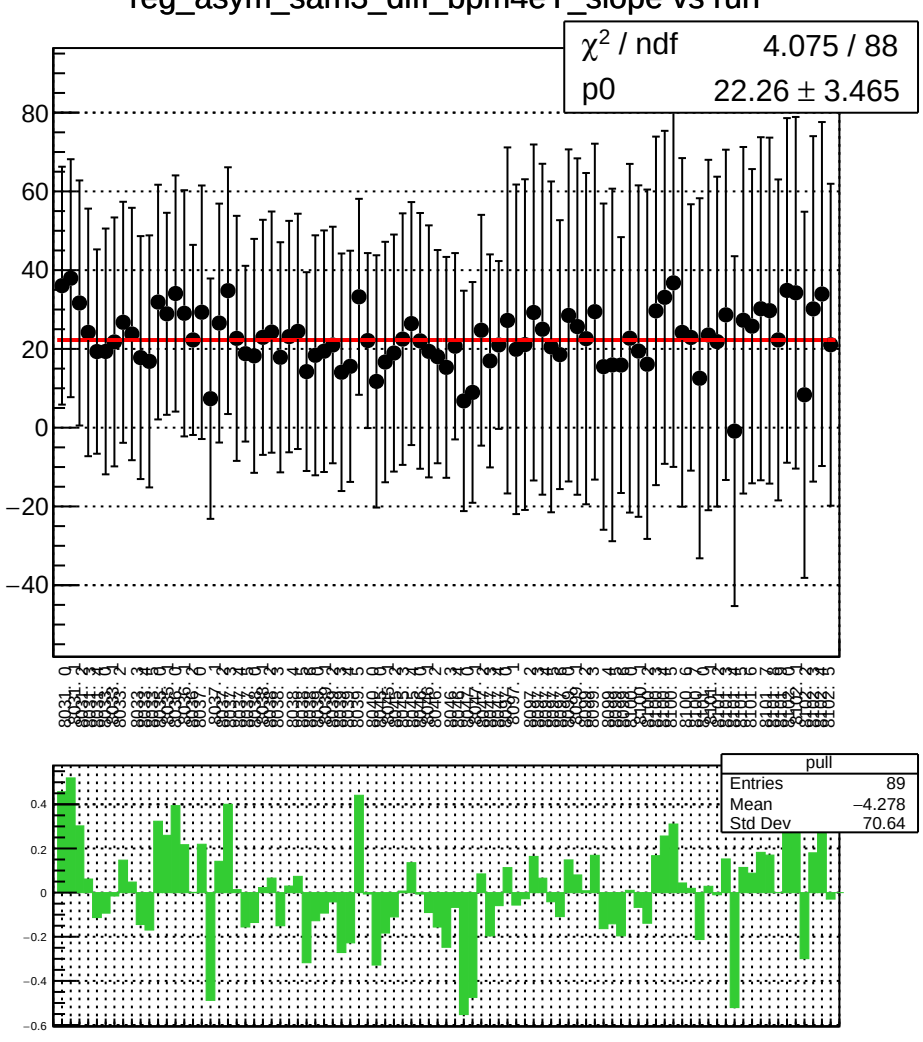

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 4.814 / 88
p0 5.358 ± 0.346
pull
Entries 89
Mean −92.69
Std Dev 0
pull1D
Entries 89
Mean 0.03521
Std Dev 0.2299

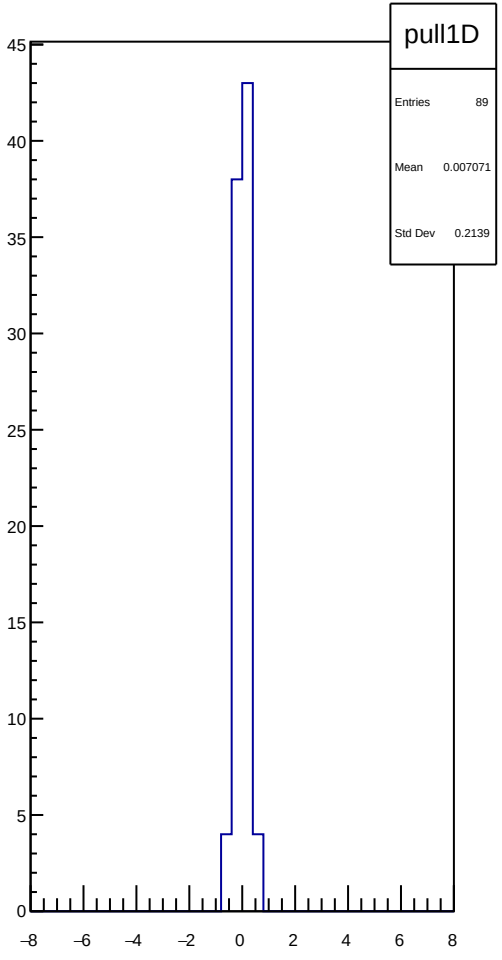

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 38.19 / 88
p0 −33.02 ± 1.901
pull
Entries 89
Mean 125.2
Std Dev 0

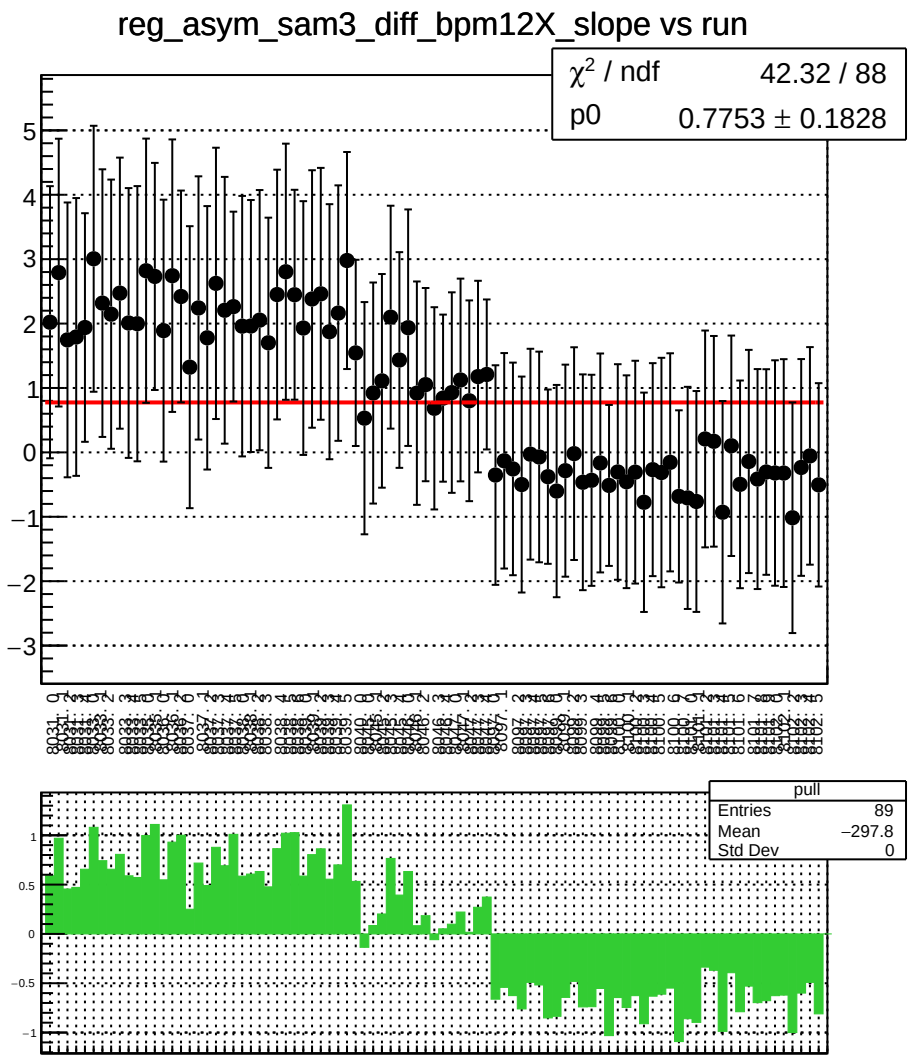

pull1D
Entries 89
Mean −0.1593
Std Dev 0.6354

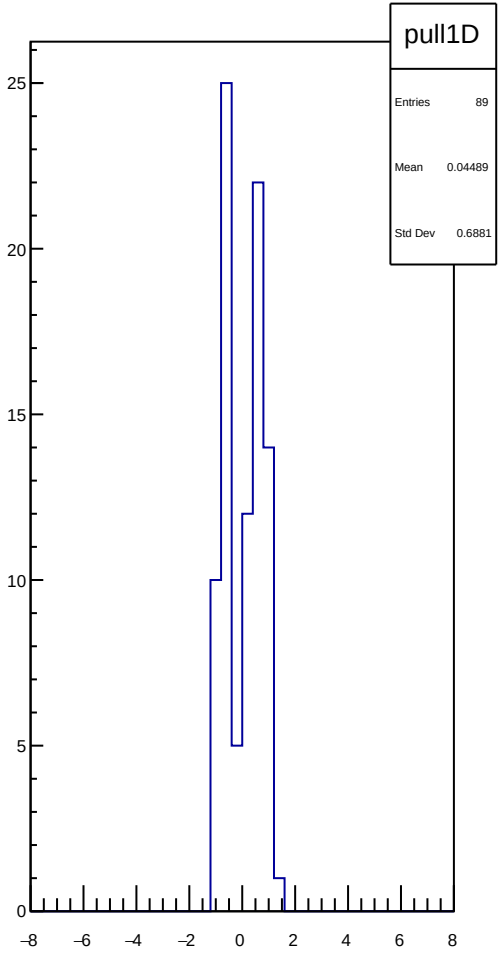

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 4.218 / 88
p0 −3.981 ± 3.268
pull
Entries 89
Mean 80.24
Std Dev 58.1
pull1D
Entries 89
Mean −0.01293
Std Dev 0.2173

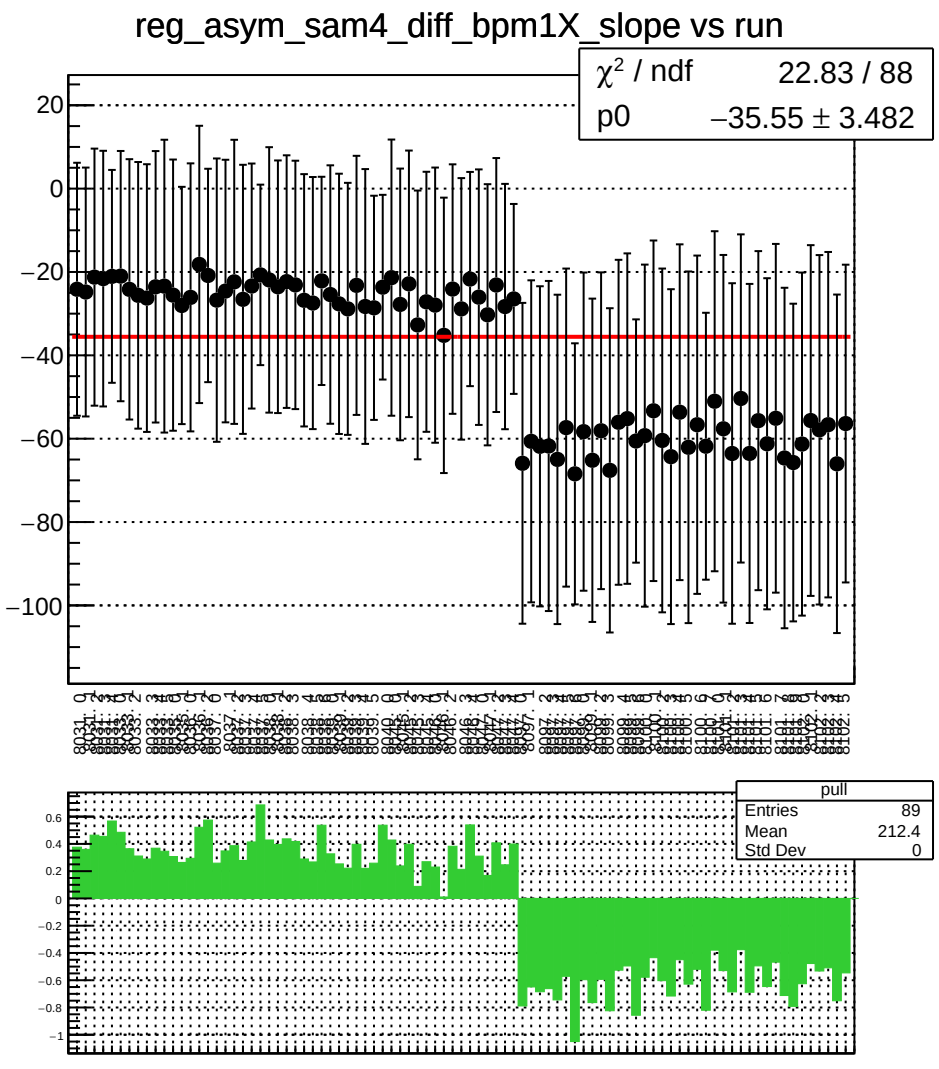

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 29.09 / 88
p0 −71.57 ± 2.078
−40
−60
−80
−100
−120
pull
Entries 89
Mean 143.8
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean −0.1022
Std Dev 0.5625
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

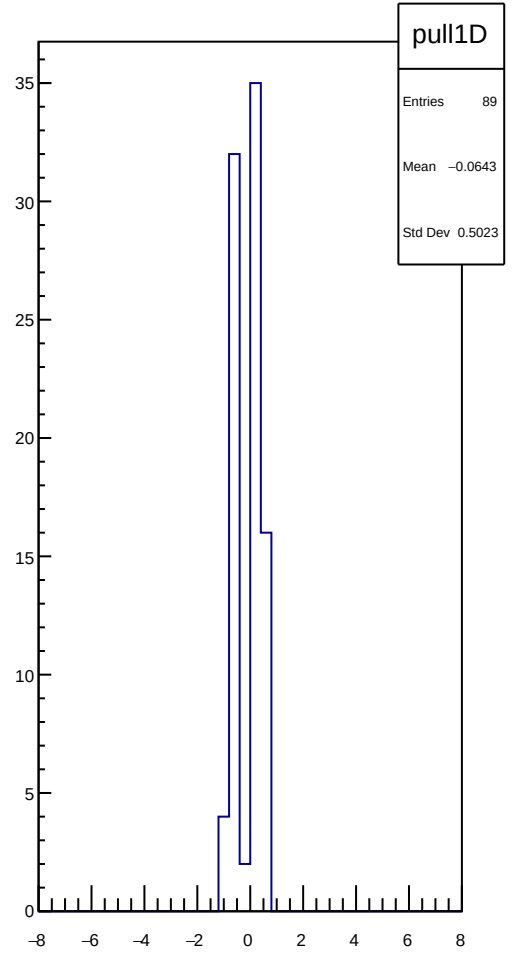

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 4.075 / 88
p0 22.26 ± 3.465
pull
Entries 89
Mean −4.278
Std Dev 70.64

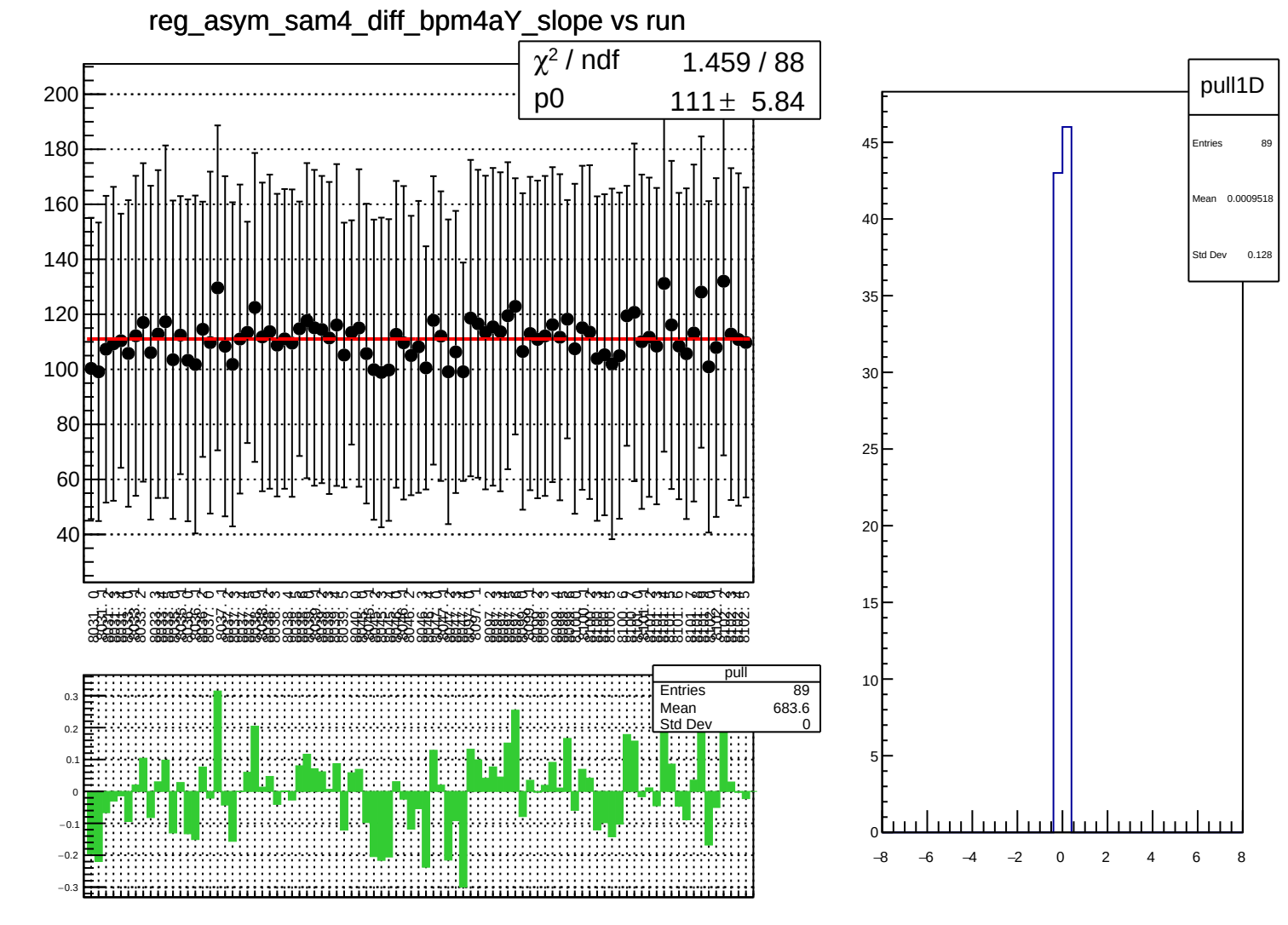

pull1D
Entries 89
Mean 0.007071
Std Dev 0.2139

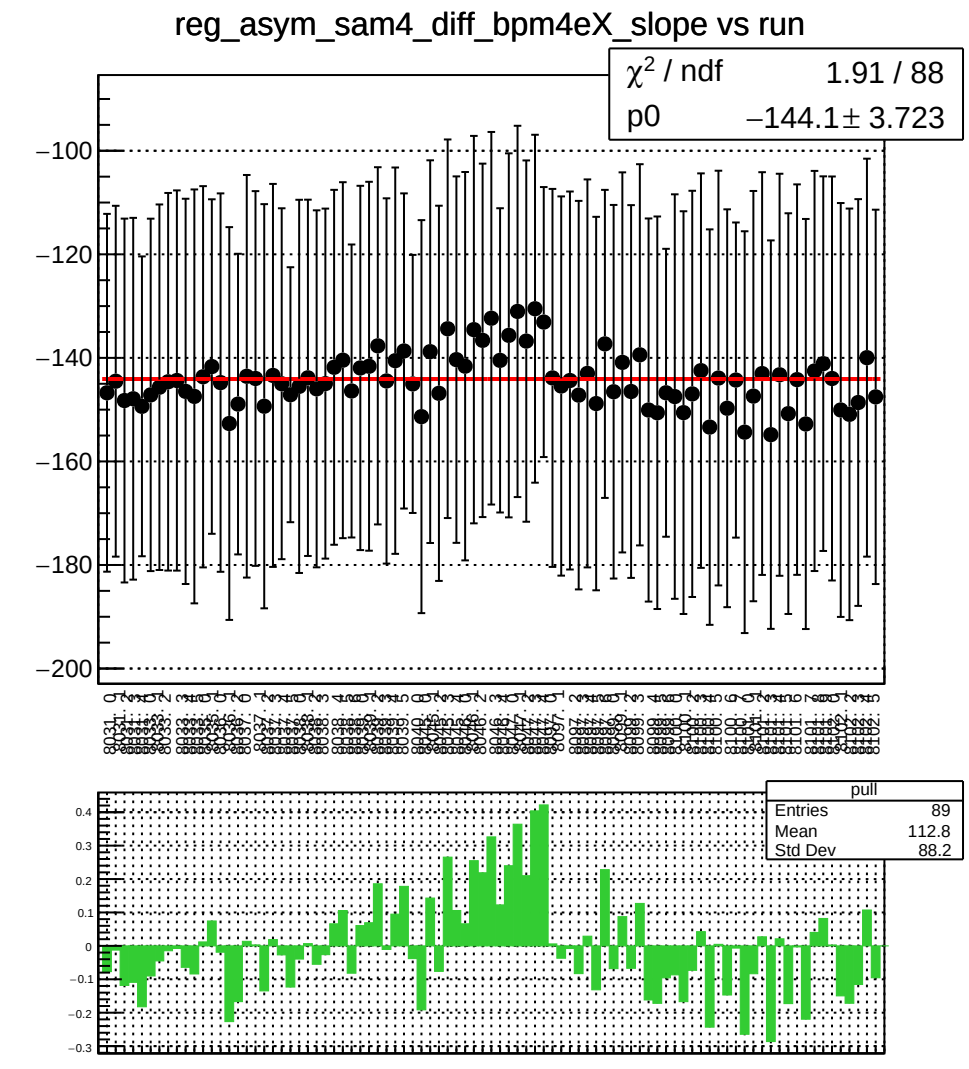

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 42.32 / 88
p0 0.7753 ± 0.1828
pull
Entries 89
Mean −297.8
Std Dev 0

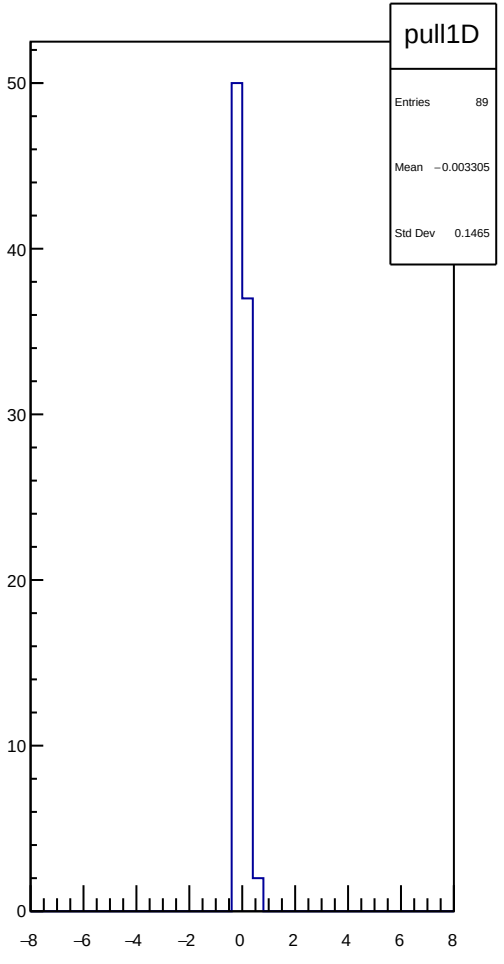

pull1D
Entries 89
Mean 0.04489
Std Dev 0.6881

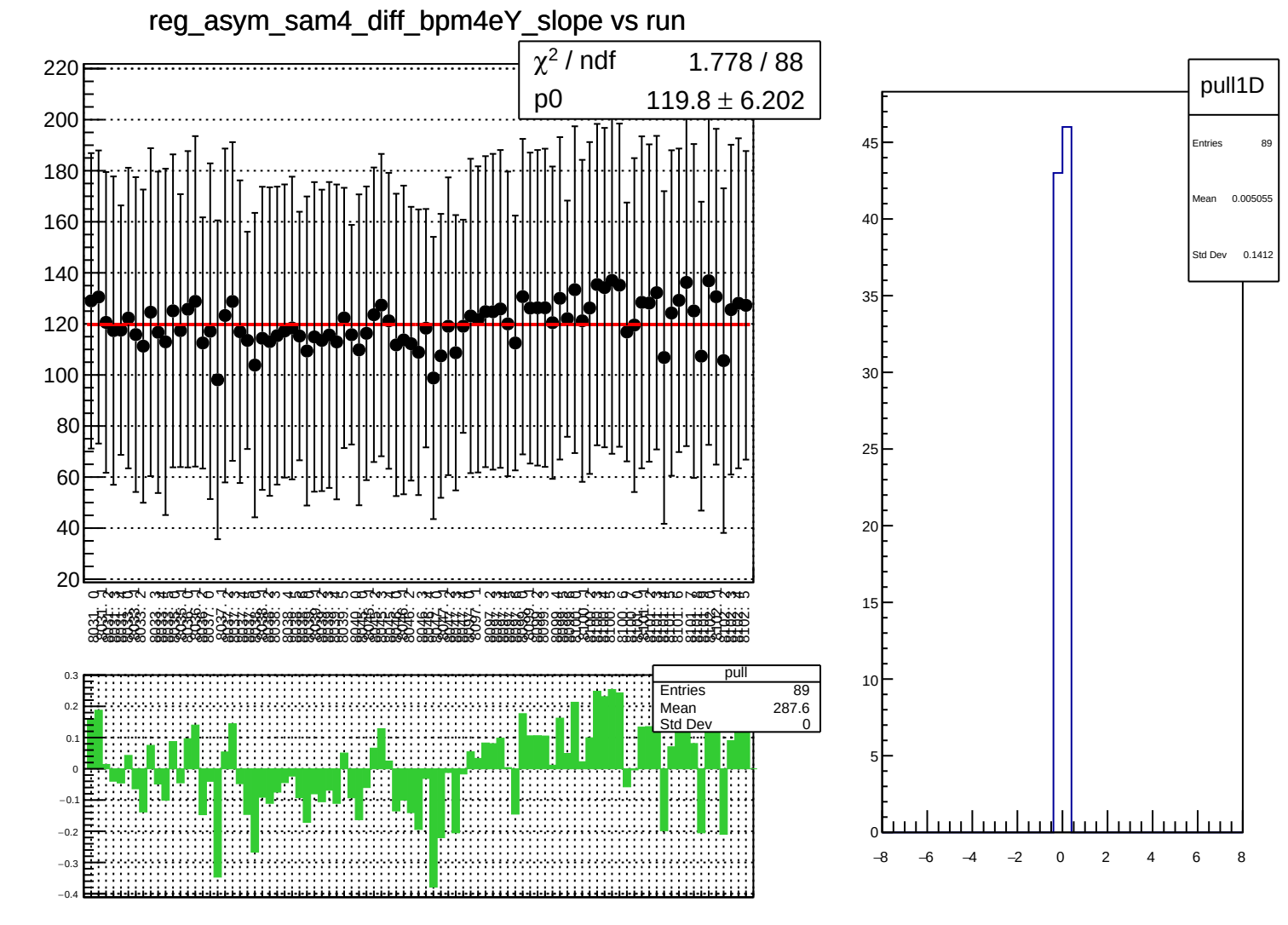

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 22.83 / 88
p0 −35.55 ± 3.482
pull
Entries 89
Mean 212.4
Std Dev 0

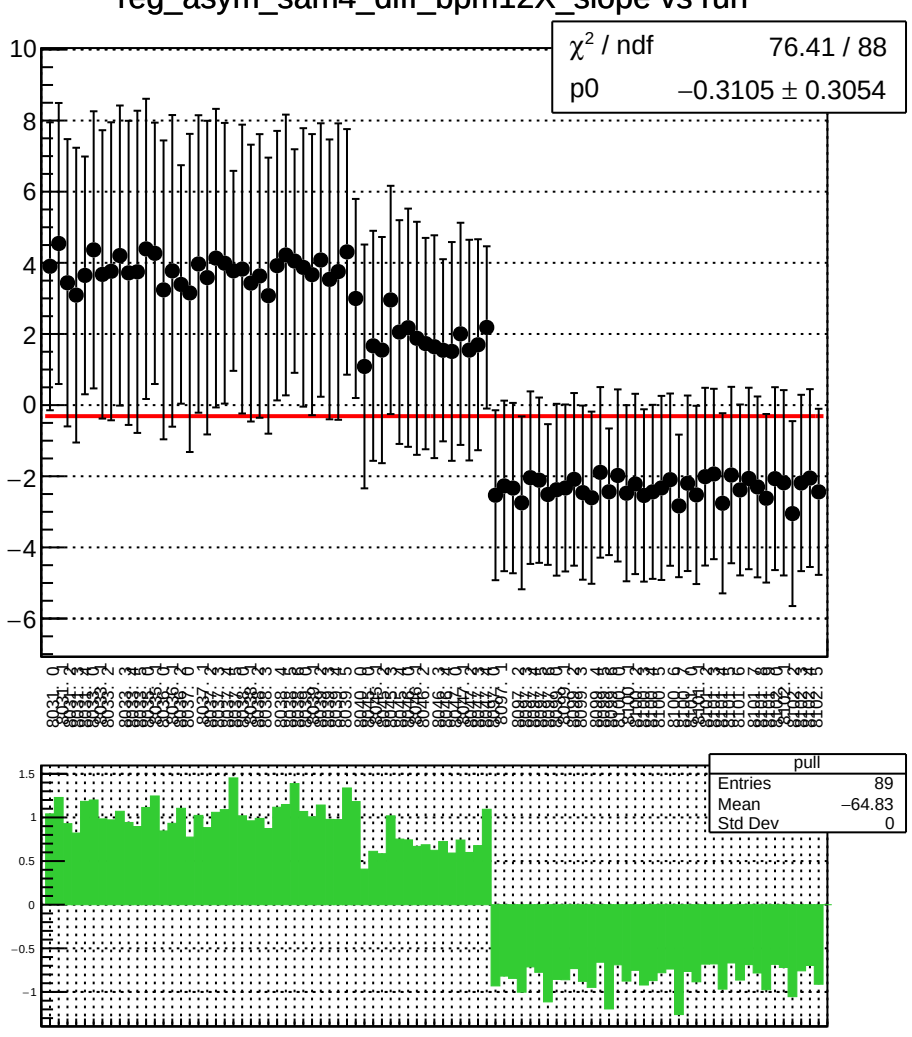

pull1D
Entries 89
Mean −0.0643
Std Dev 0.5023

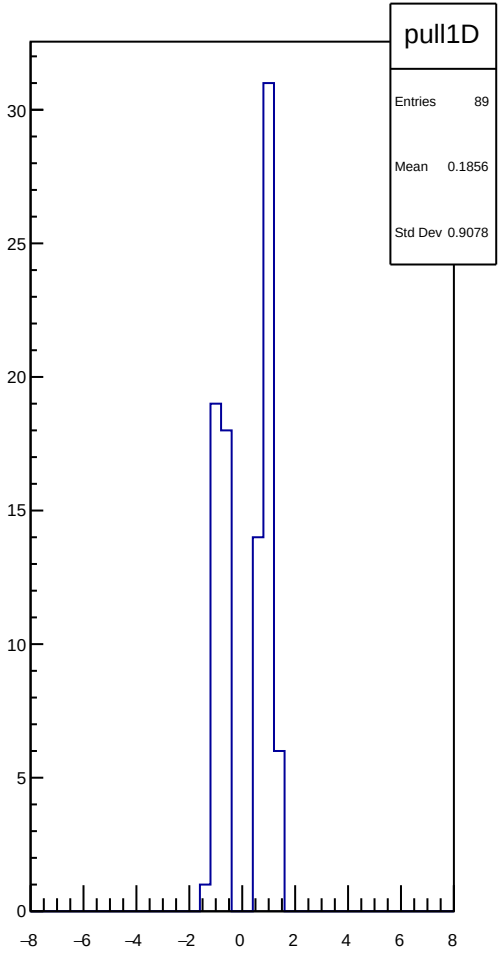

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 1.459 / 88
p0 111 ± 5.84
pull
Entries 89
Mean 683.6
Std Dev 0
pull1D
Entries 89
Mean 0.0009518
Std Dev 0.128

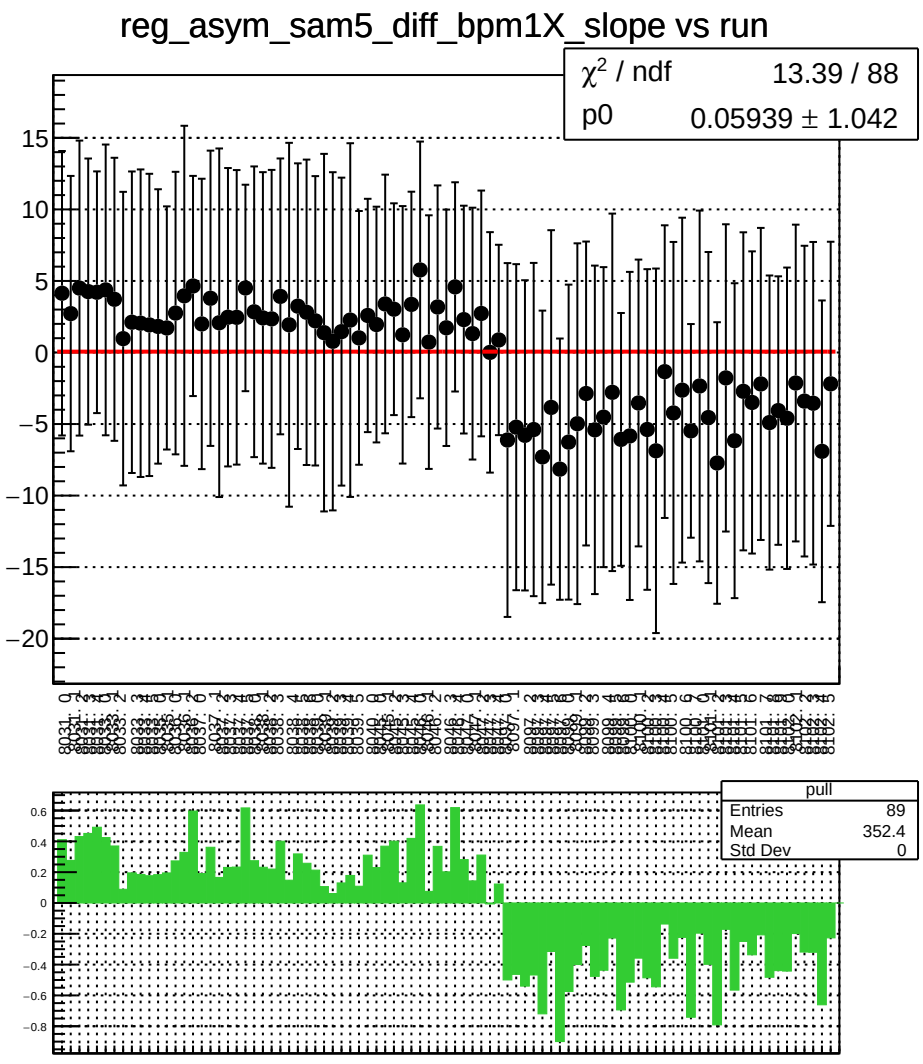

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 1.91 / 88
p0 −144.1± 3.723
−100
−120
−140
−160
−180
−200
pull
Entries 89
Mean 112.8
Std Dev 88.2
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

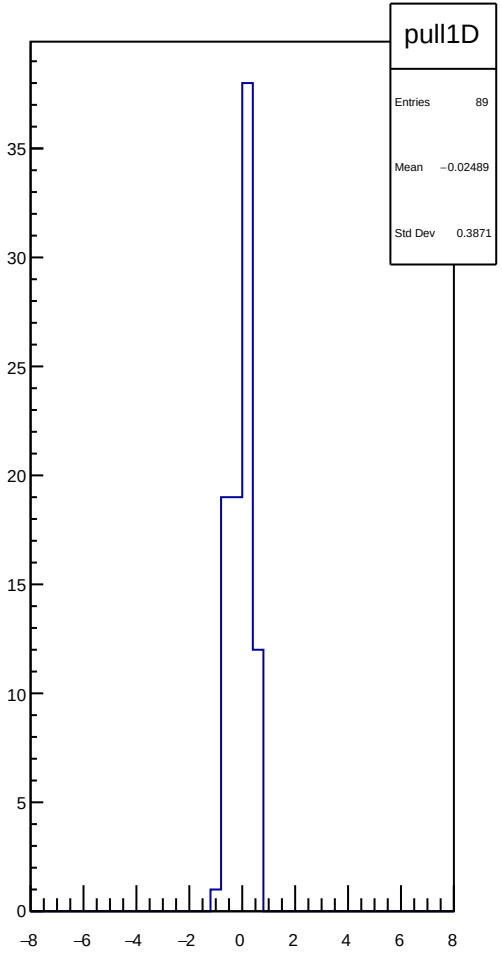

pull1D
Entries 89
Mean −0.003305
Std Dev 0.1465
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

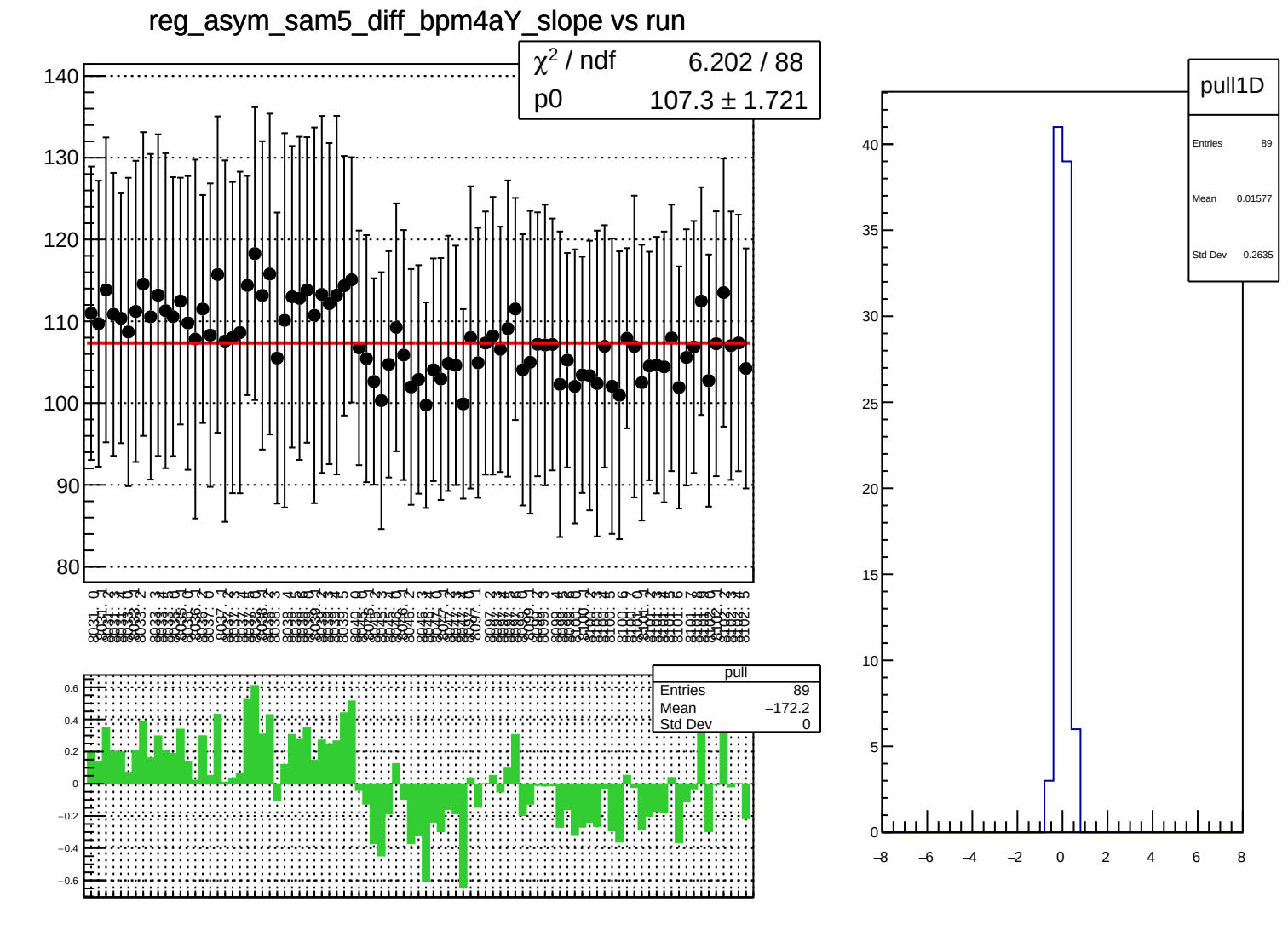

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 1.778 / 88
p0 119.8 ± 6.202
pull
Entries 89
Mean 287.6
Std Dev 0
pull1D
Entries 89
Mean 0.005055
Std Dev 0.1412

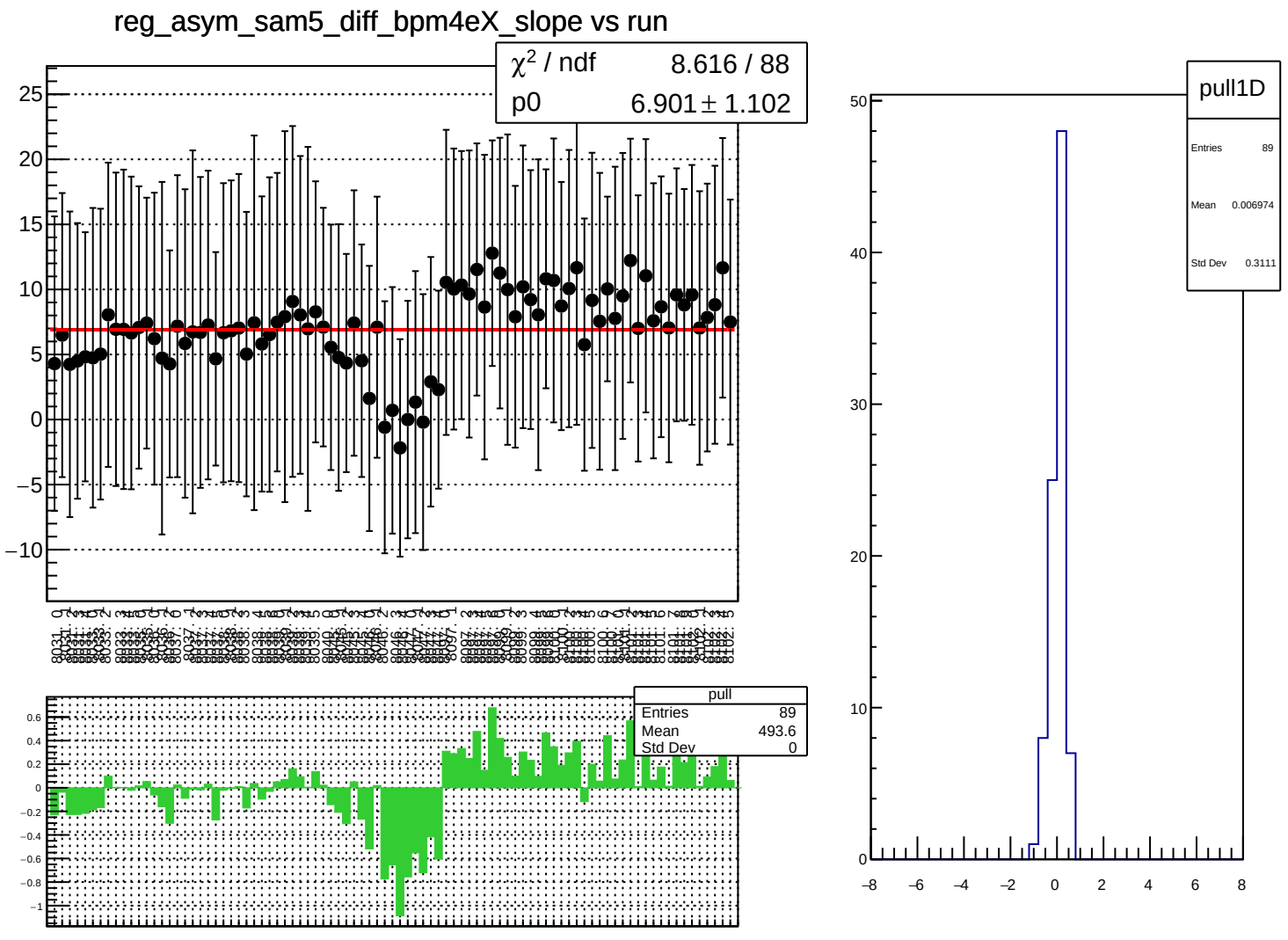

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 76.41 / 88
p0 −0.3105 ± 0.3054
pull
Entries 89
Mean −64.83
Std Dev 0

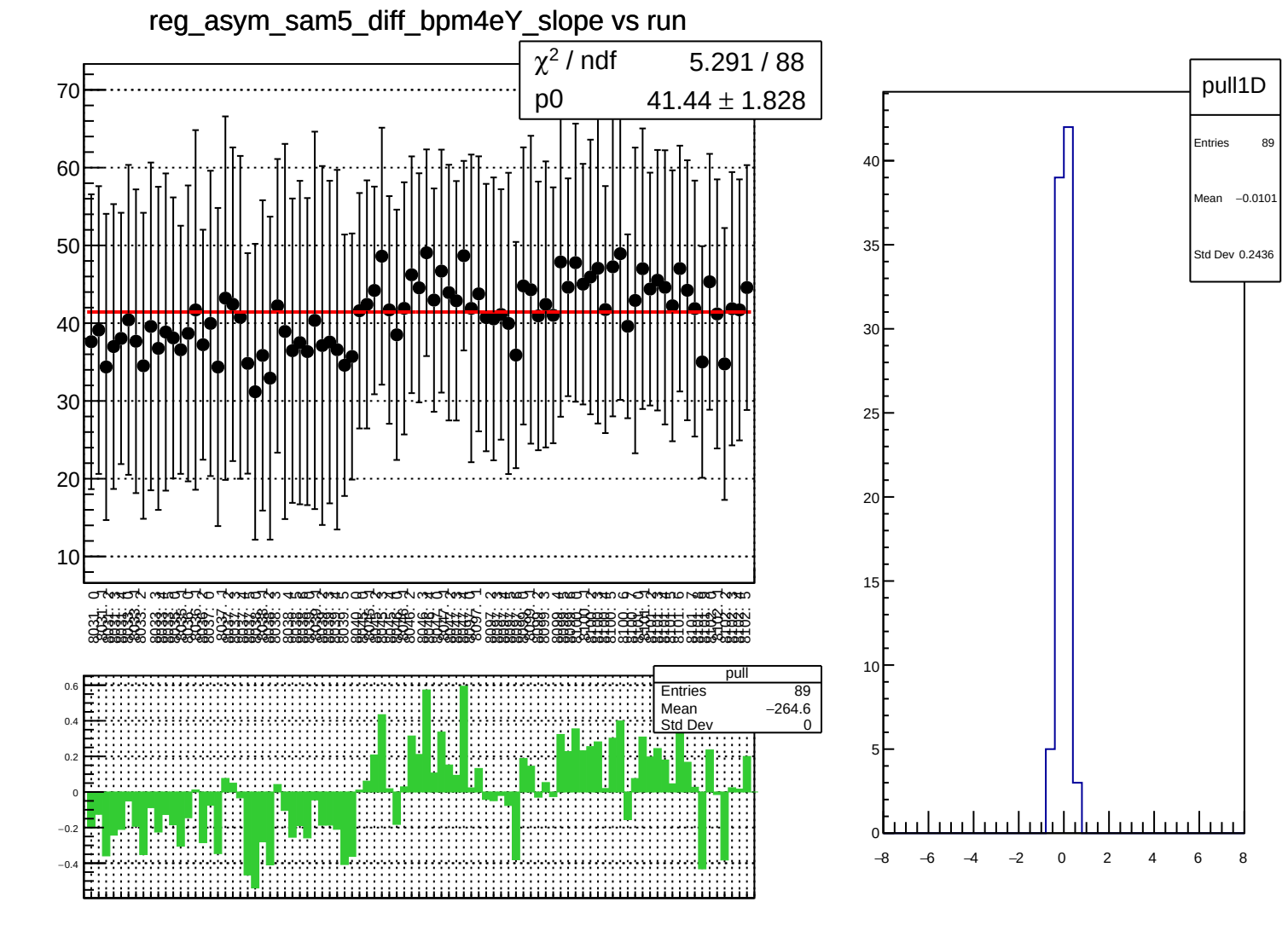

pull1D
Entries 89
Mean 0.1856
Std Dev 0.9078

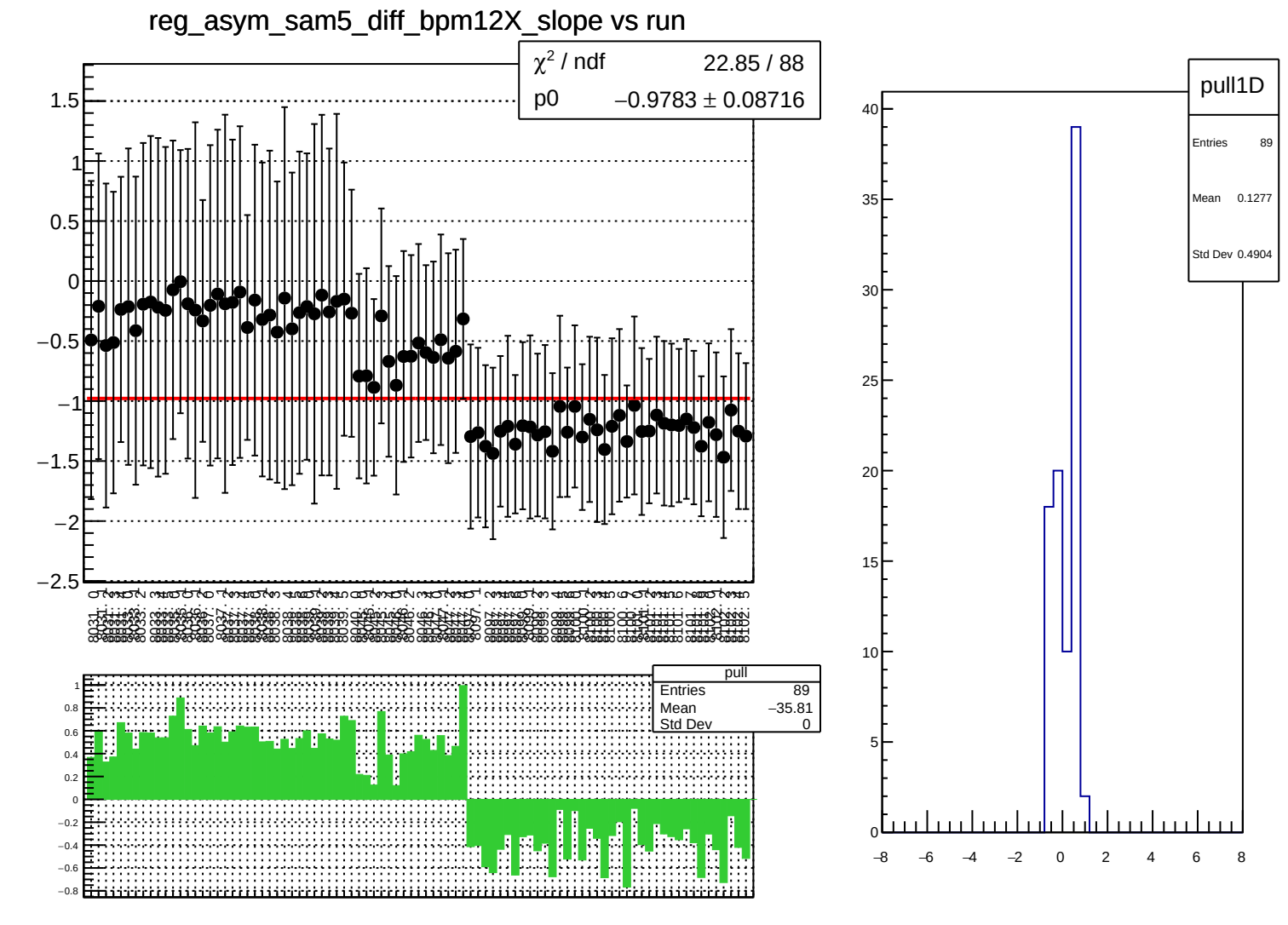

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 13.39 / 88
p0 0.05939 ± 1.042
pull
Entries 89
Mean 352.4
Std Dev 0

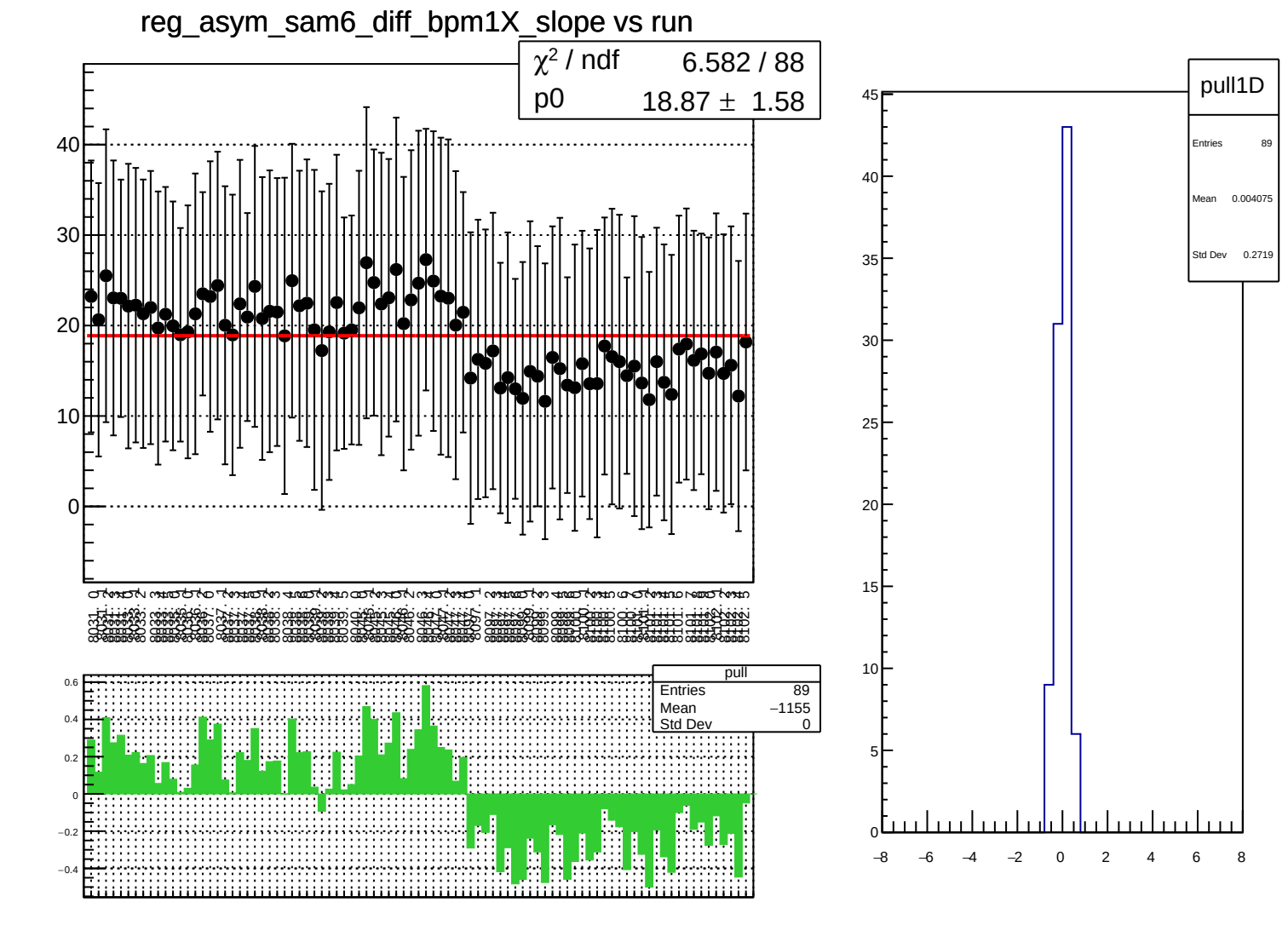

pull1D
Entries 89
Mean −0.02489
Std Dev 0.3871

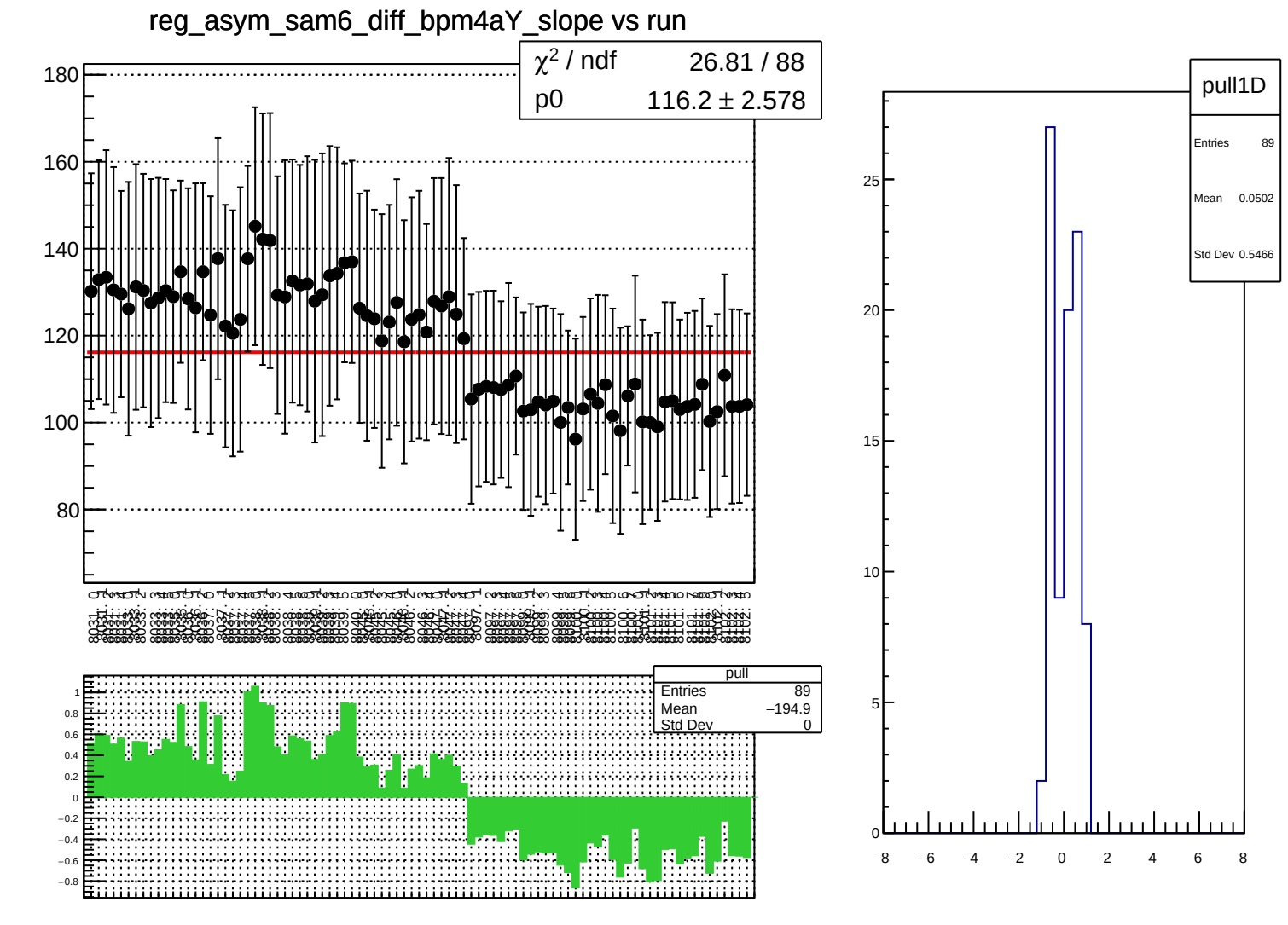

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 6.202 / 88
p0 107.3 ± 1.721
pull
Entries 89
Mean −172.2
Std Dev 0
pull1D
Entries 89
Mean 0.01577
Std Dev 0.2635

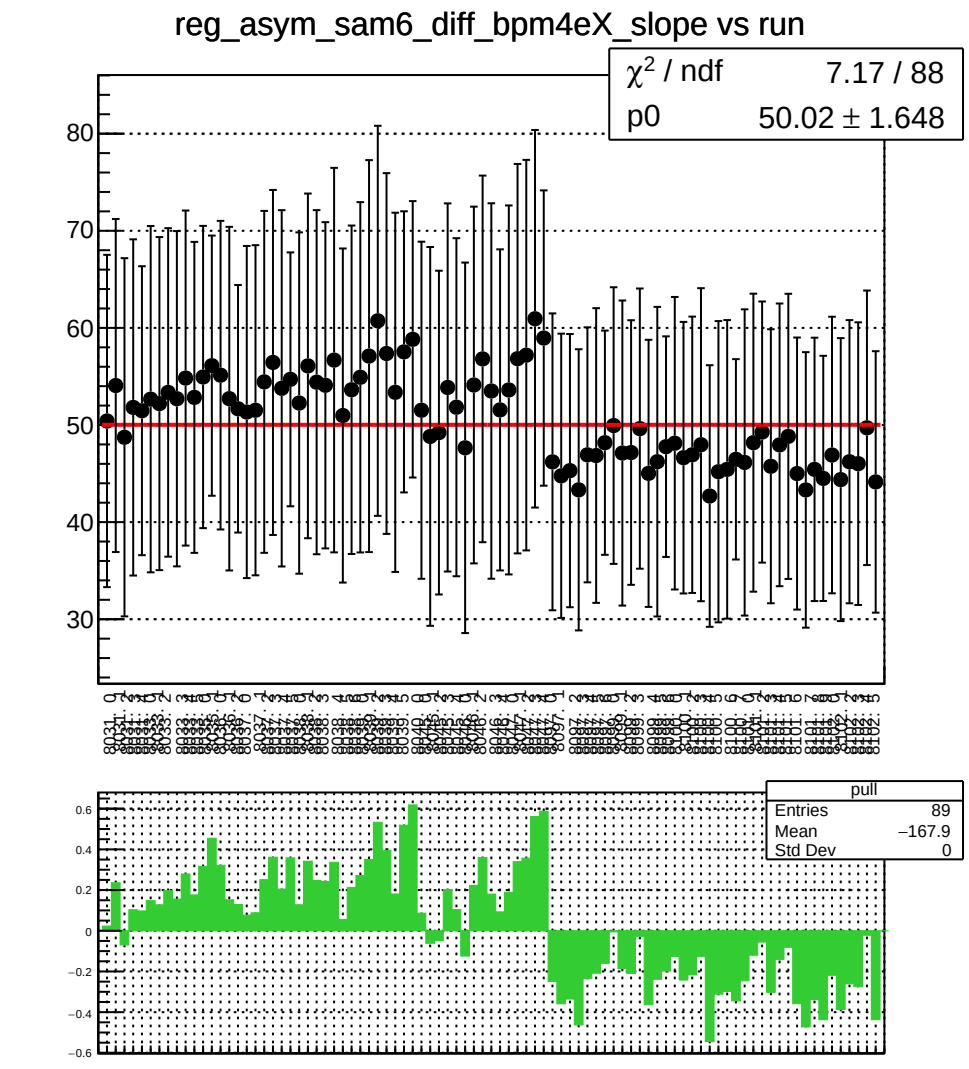

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 8.616 / 88
p0 6.901 ± 1.102
pull
Entries 89
Mean 493.6
Std Dev 0
pull1D
Entries 89
Mean 0.006974
Std Dev 0.3111

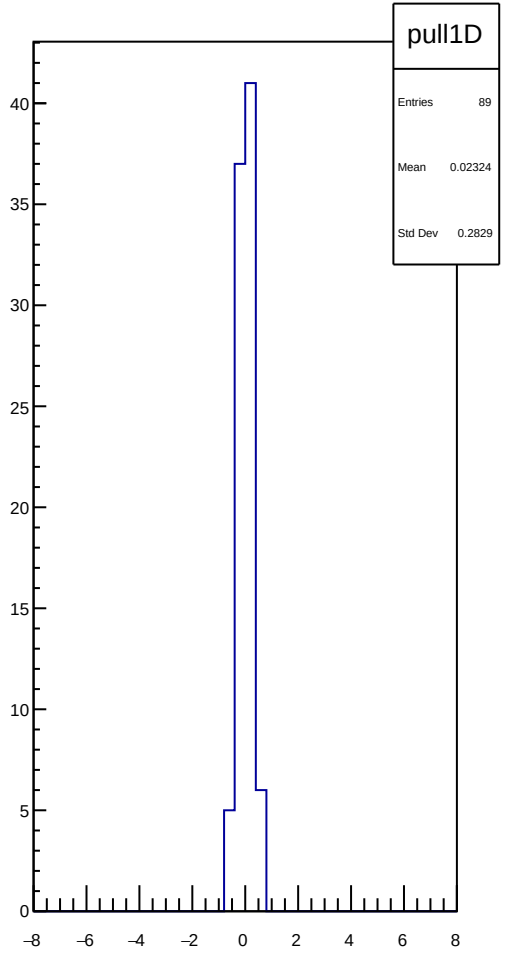

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 5.291 / 88
p0 41.44 ± 1.828
pull
Entries 89
Mean −264.6
Std Dev 0
pull1D
Entries 89
Mean −0.0101
Std Dev 0.2436

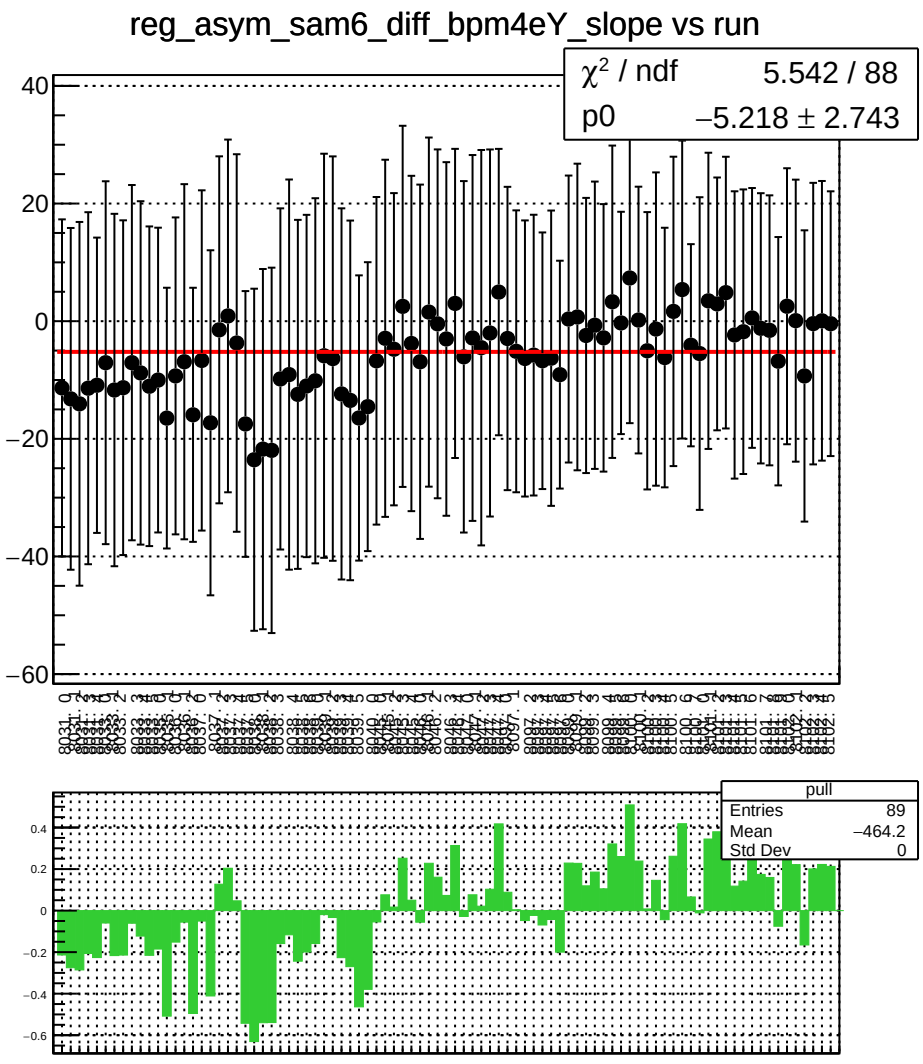

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 22.85 / 88
p0 −0.9783 ± 0.08716
pull
Entries 89
Mean −35.81
Std Dev 0
pull1D
Entries 89
Mean 0.1277
Std Dev 0.4904

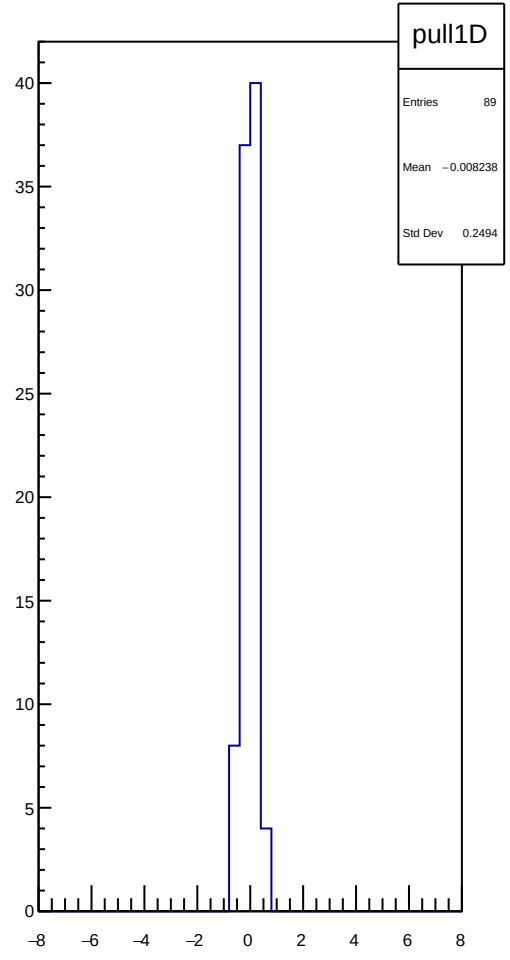

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 6.582 / 88
p0 18.87 ± 1.58
pull
Entries 89
Mean −1155
Std Dev 0
pull1D
Entries 89
Mean 0.004075
Std Dev 0.2719

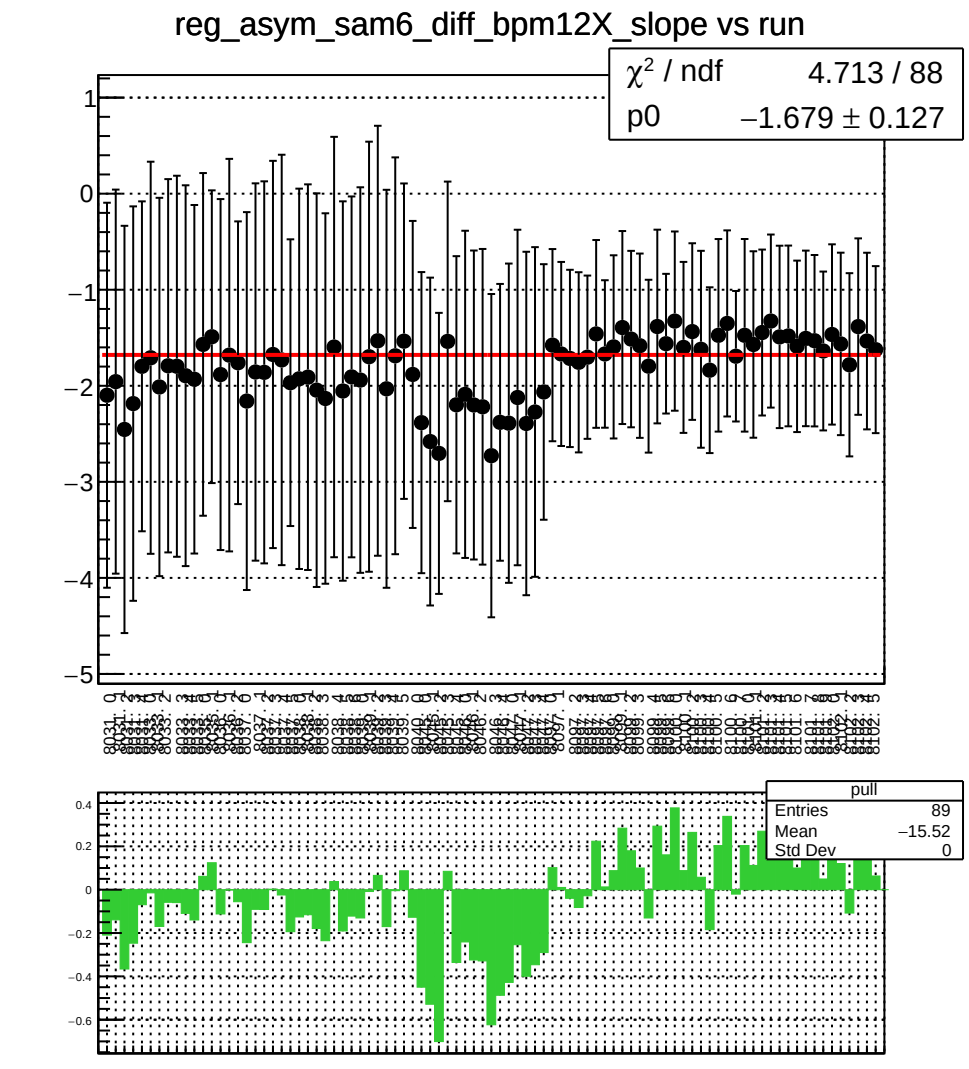

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 26.81 / 88
p0 116.2 ± 2.578
180
160
140
120
100
80
pull
Entries 89
Mean −194.9
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 89
Mean 0.0502
Std Dev 0.5466
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

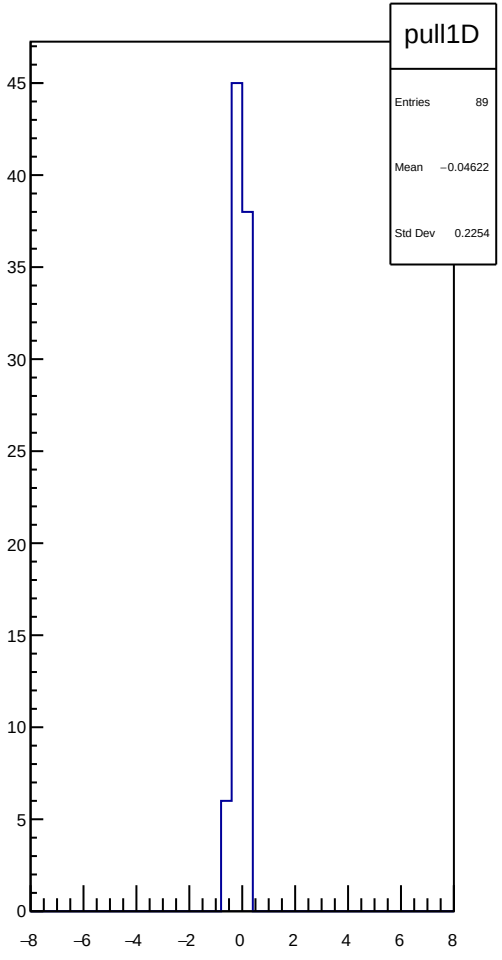

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 7.17 / 88
p0 50.02 ± 1.648
pull
Entries 89
Mean −167.9
Std Dev 0

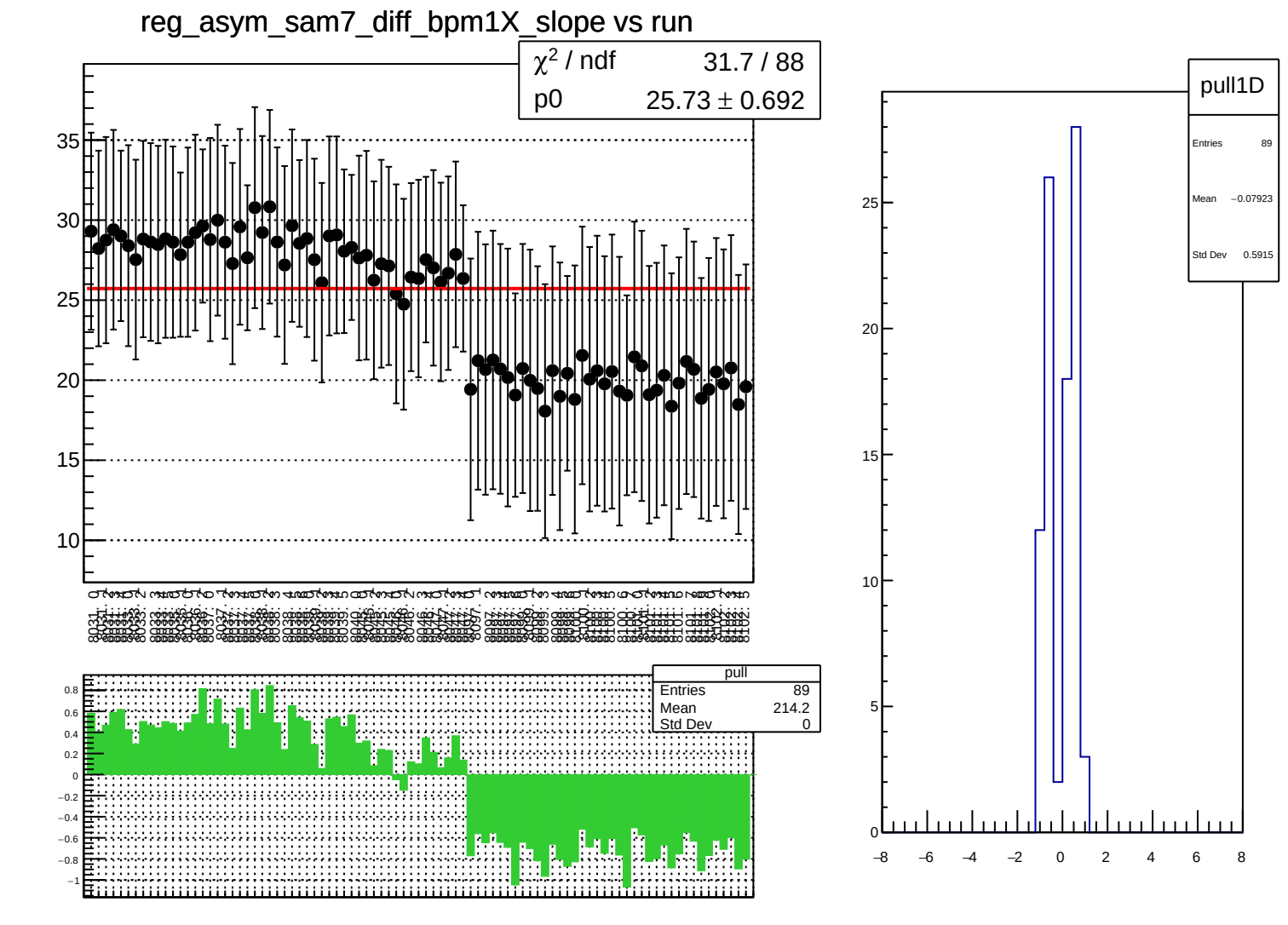

pull1D
Entries 89
Mean 0.02324
Std Dev 0.2829

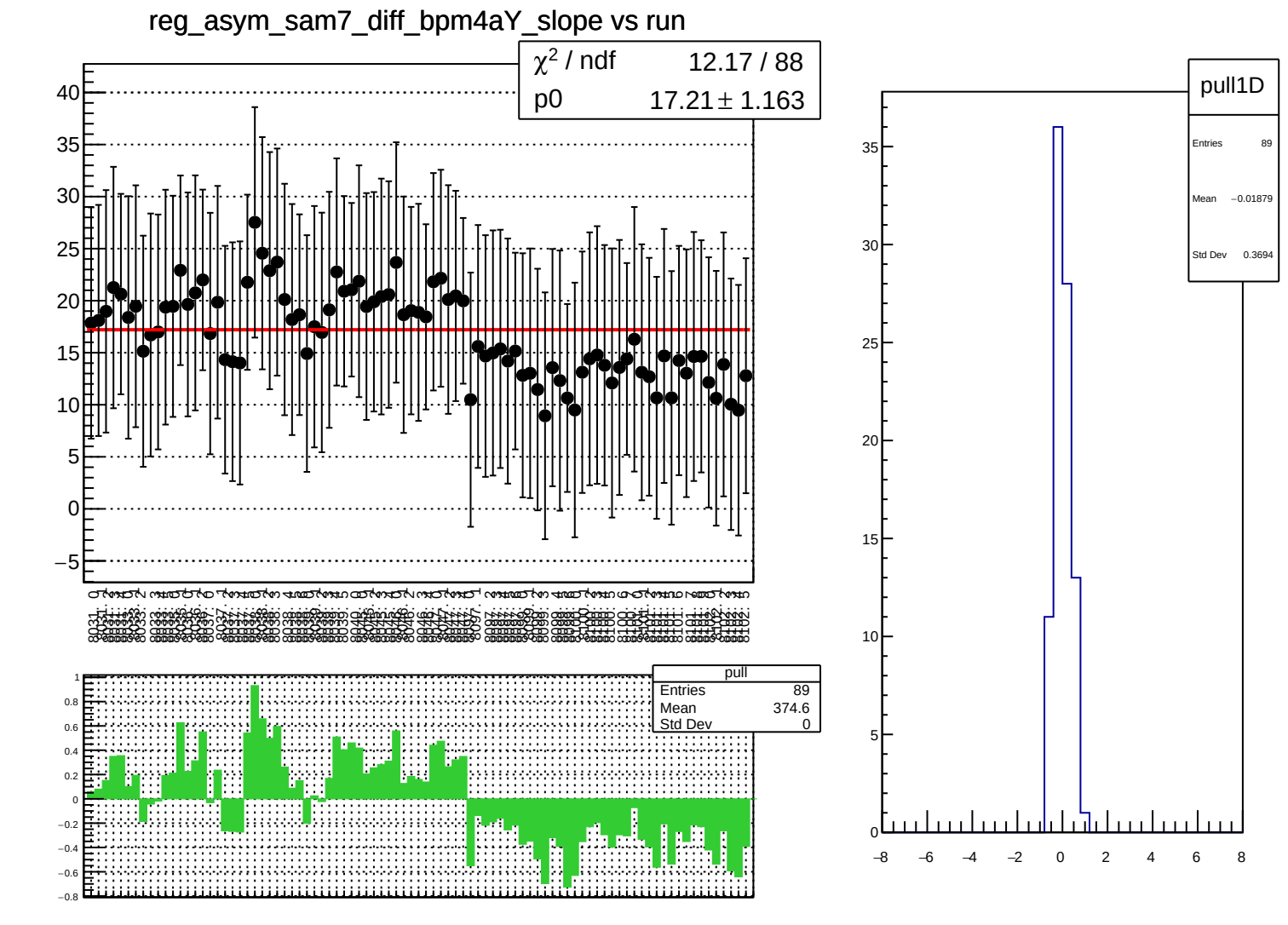

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 5.542 / 88
p0 −5.218 ± 2.743
pull
Entries 89
Mean −464.2
Std Dev 0

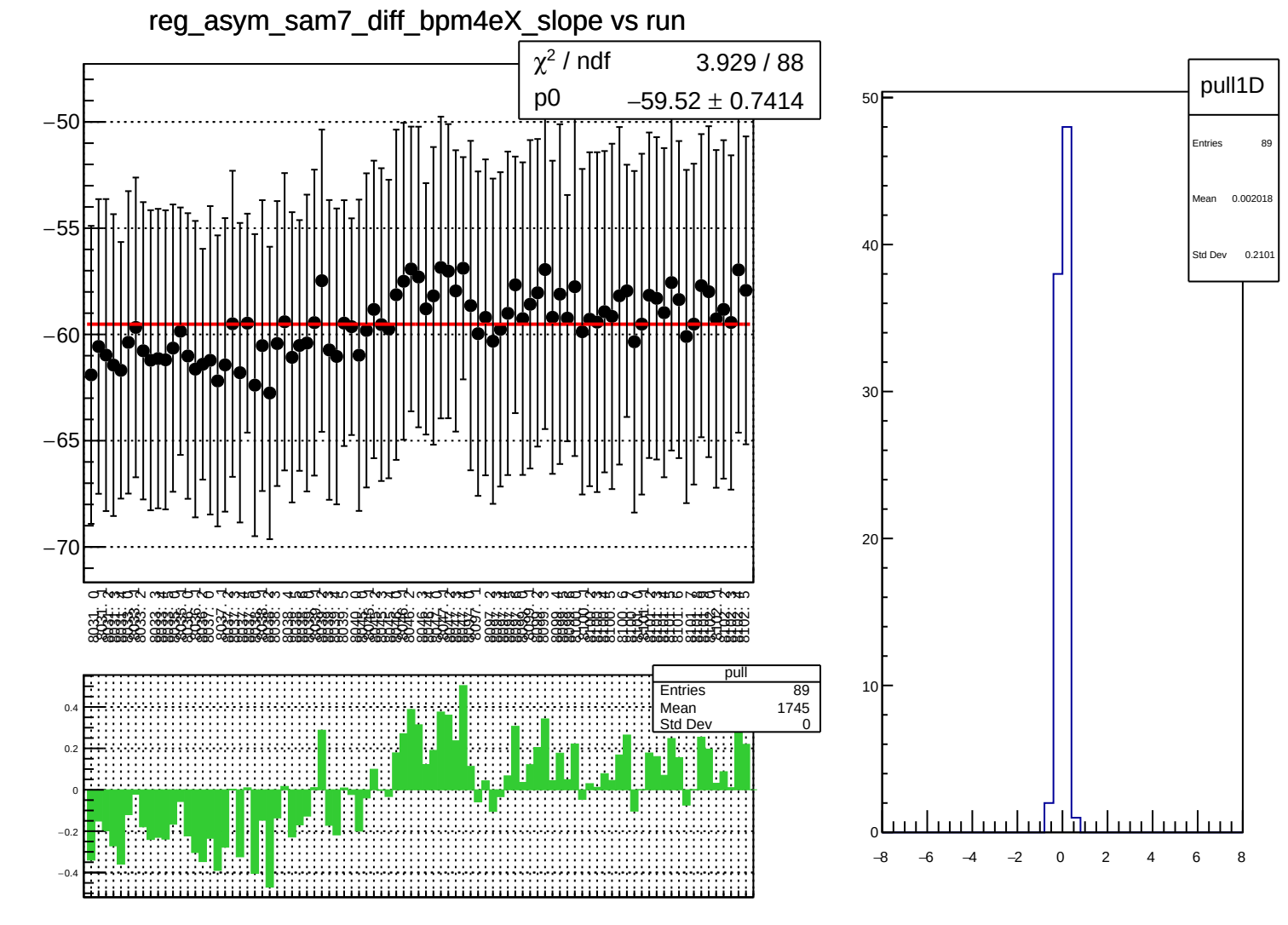

pull1D
Entries 89
Mean −0.008238
Std Dev 0.2494

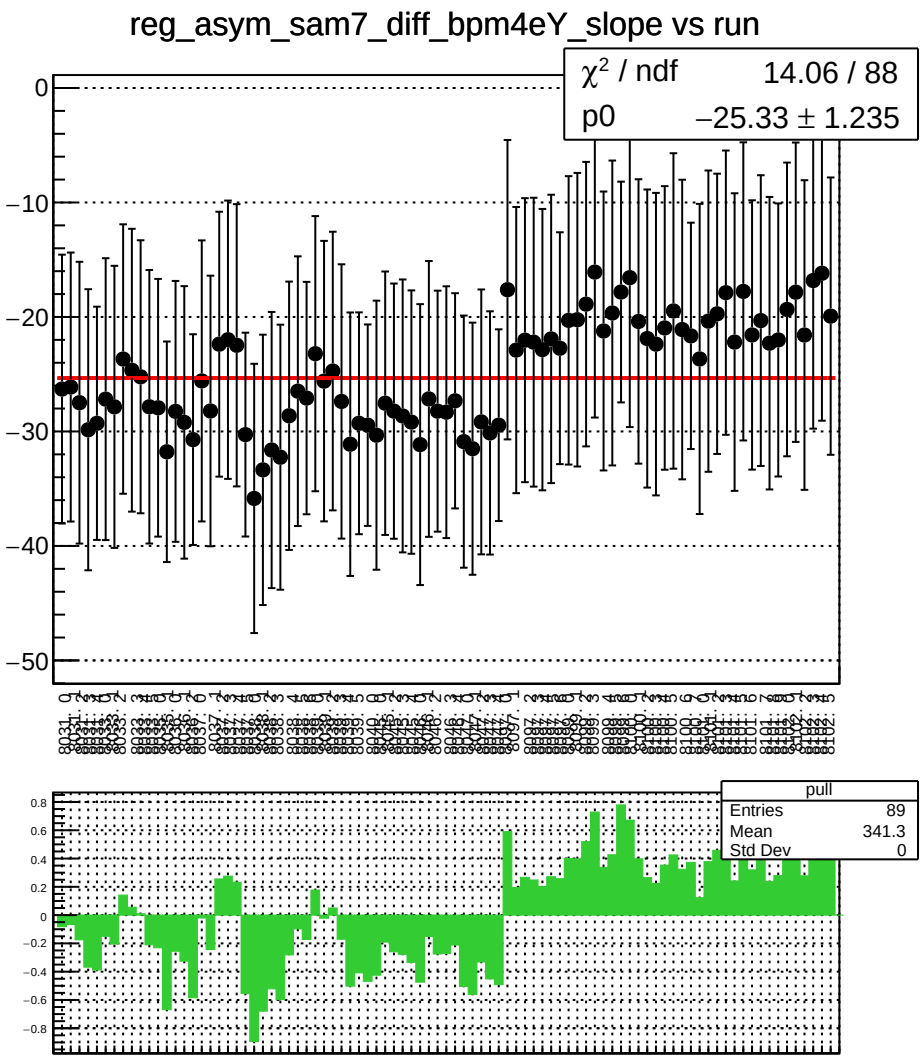

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 4.713 / 88
p0 −1.679 ± 0.127
pull
Entries 89
Mean −15.52
Std Dev 0

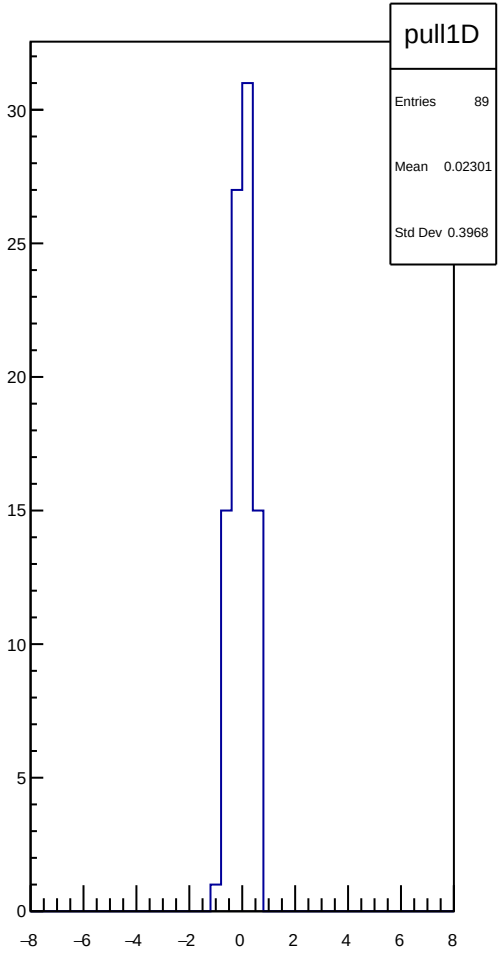

pull1D
Entries 89
Mean −0.04622
Std Dev 0.2254

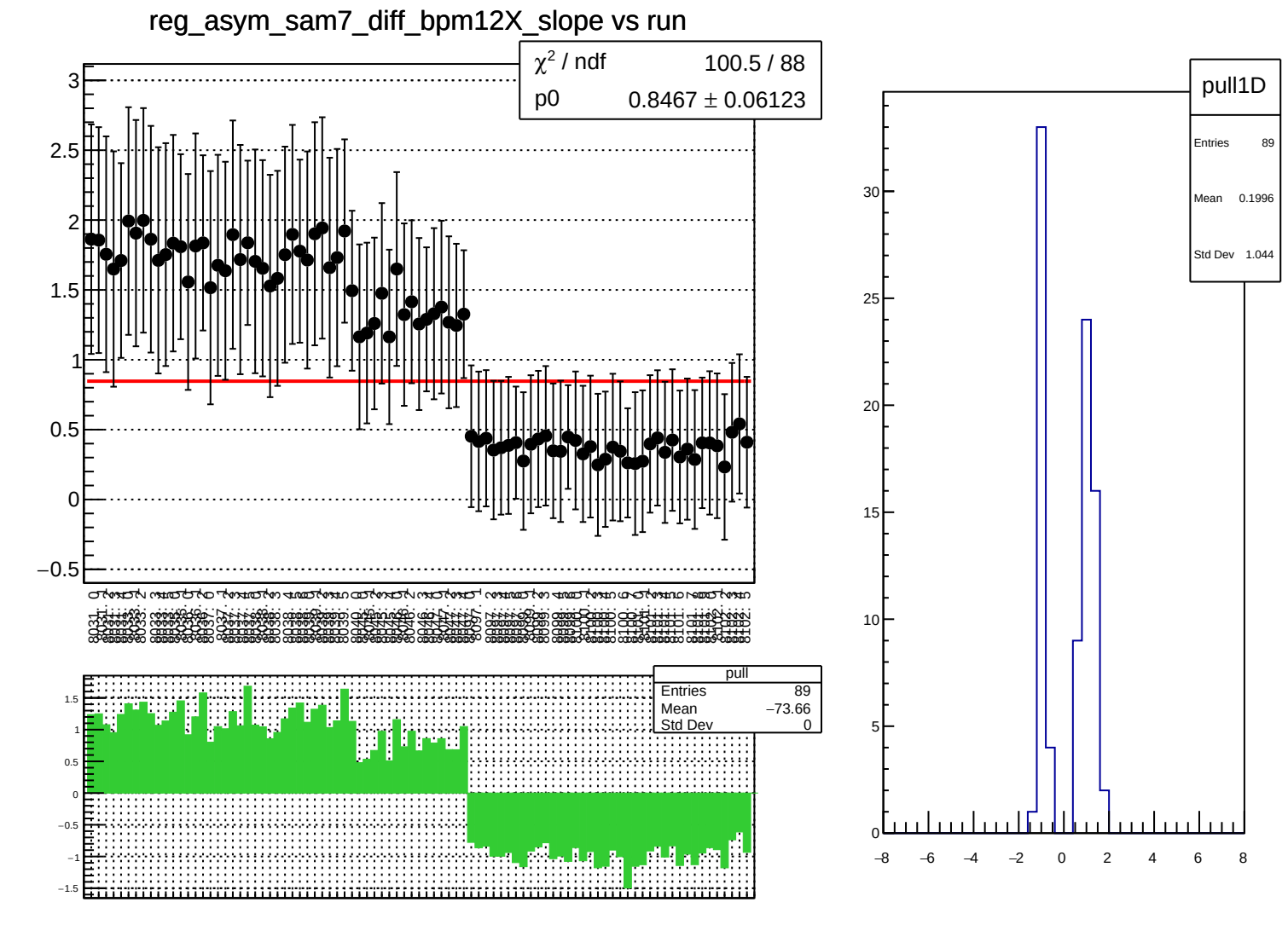

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 31.7 / 88
p0 25.73 ± 0.692
pull
Entries 89
Mean 214.2
Std Dev 0
pull1D
Entries 89
Mean −0.07923
Std Dev 0.5915

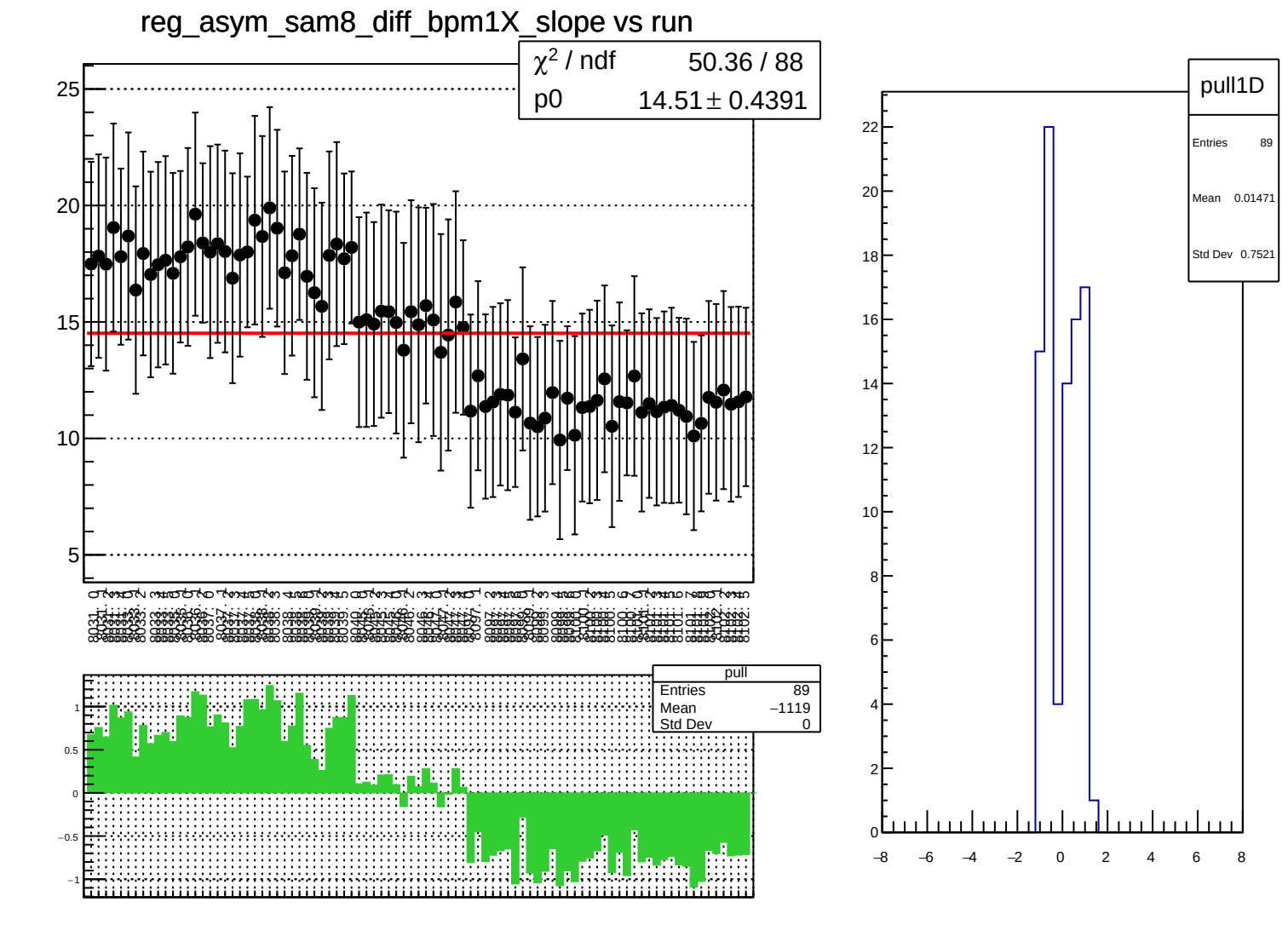

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 12.17 / 88
p0 17.21 ± 1.163
pull
Entries 89
Mean 374.6
Std Dev 0
pull1D
Entries 89
Mean −0.01879
Std Dev 0.3694

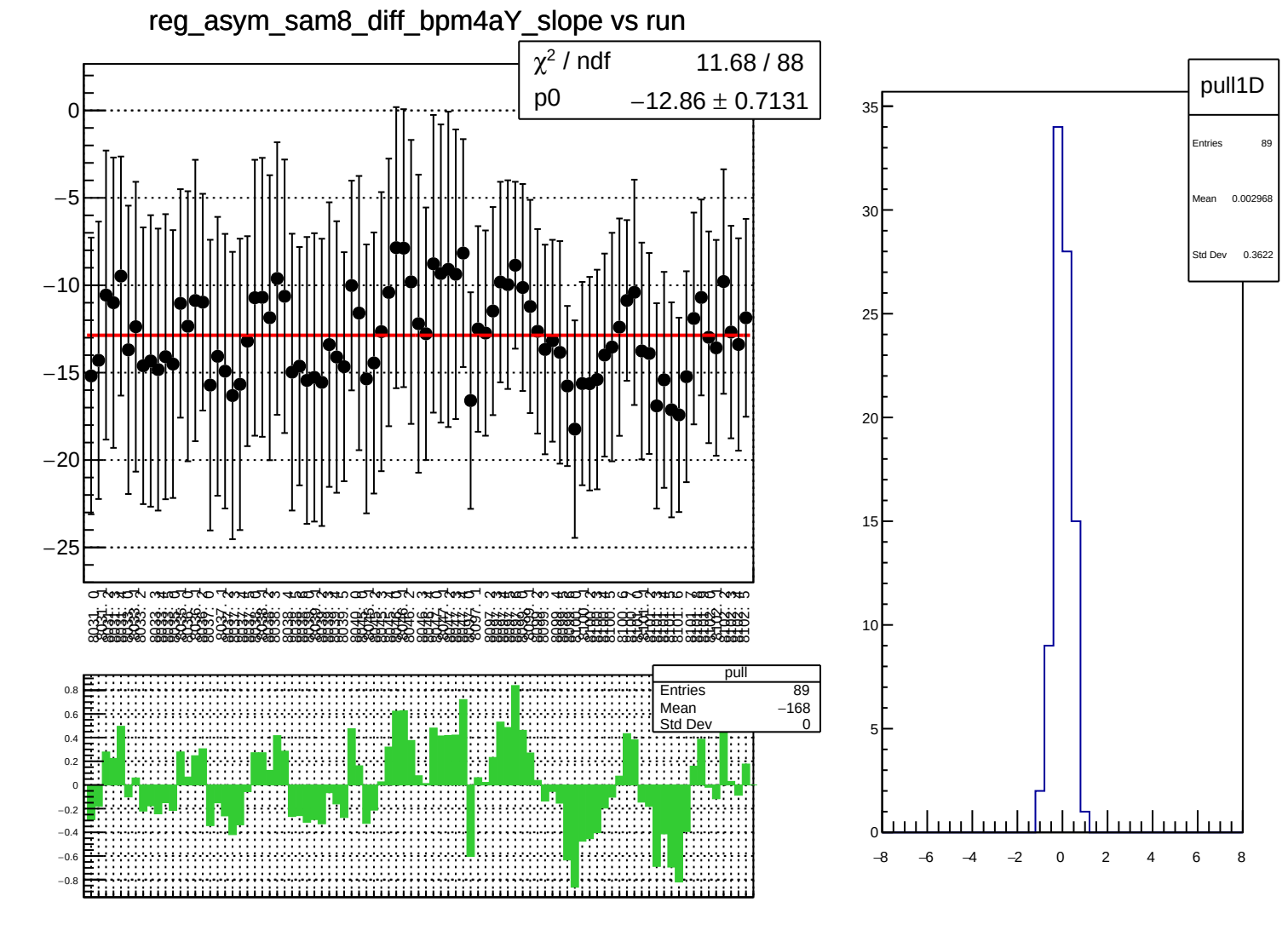

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 3.929 / 88
p0 −59.52 ± 0.7414
pull
Entries 89
Mean 1745
Std Dev 0
pull1D
Entries 89
Mean 0.002018
Std Dev 0.2101

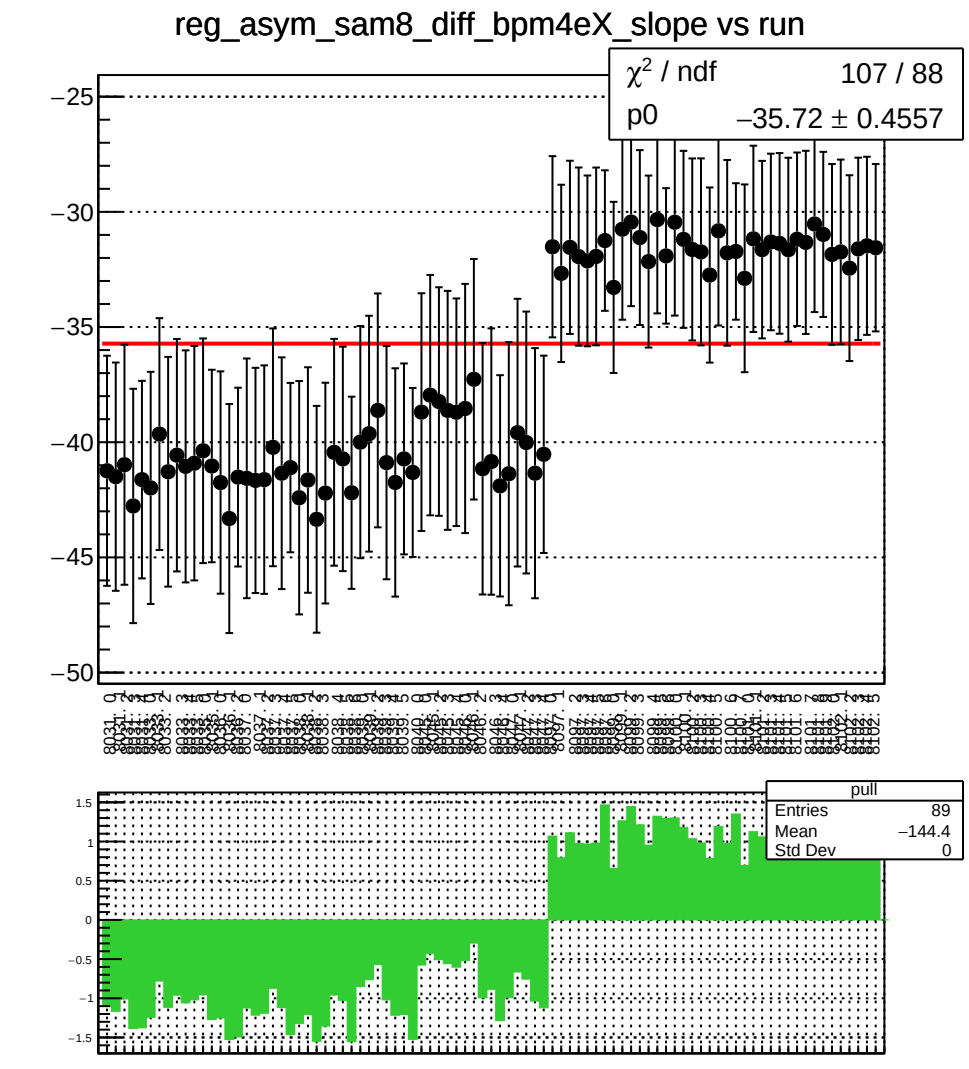

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 14.06 / 88
p0 −25.33 ± 1.235
pull
Entries 89
Mean 341.3
Std Dev 0

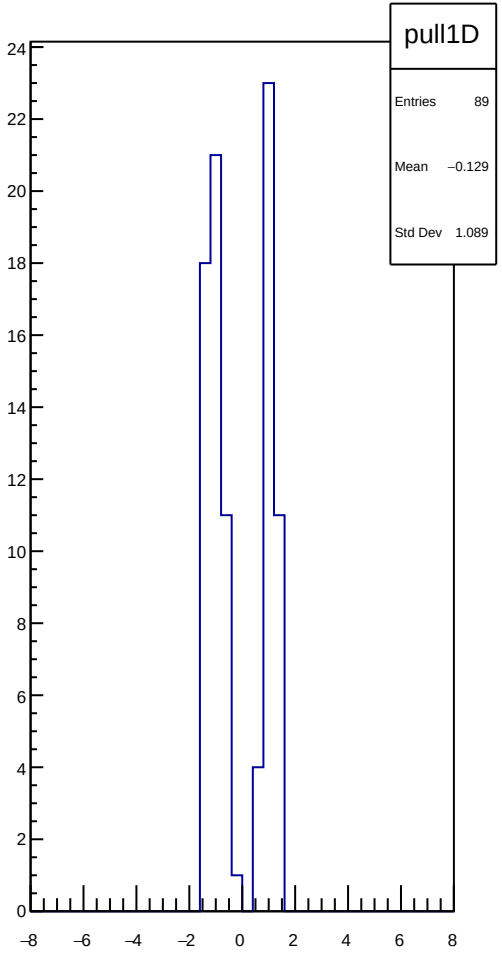

pull1D
Entries 89
Mean 0.02301
Std Dev 0.3968

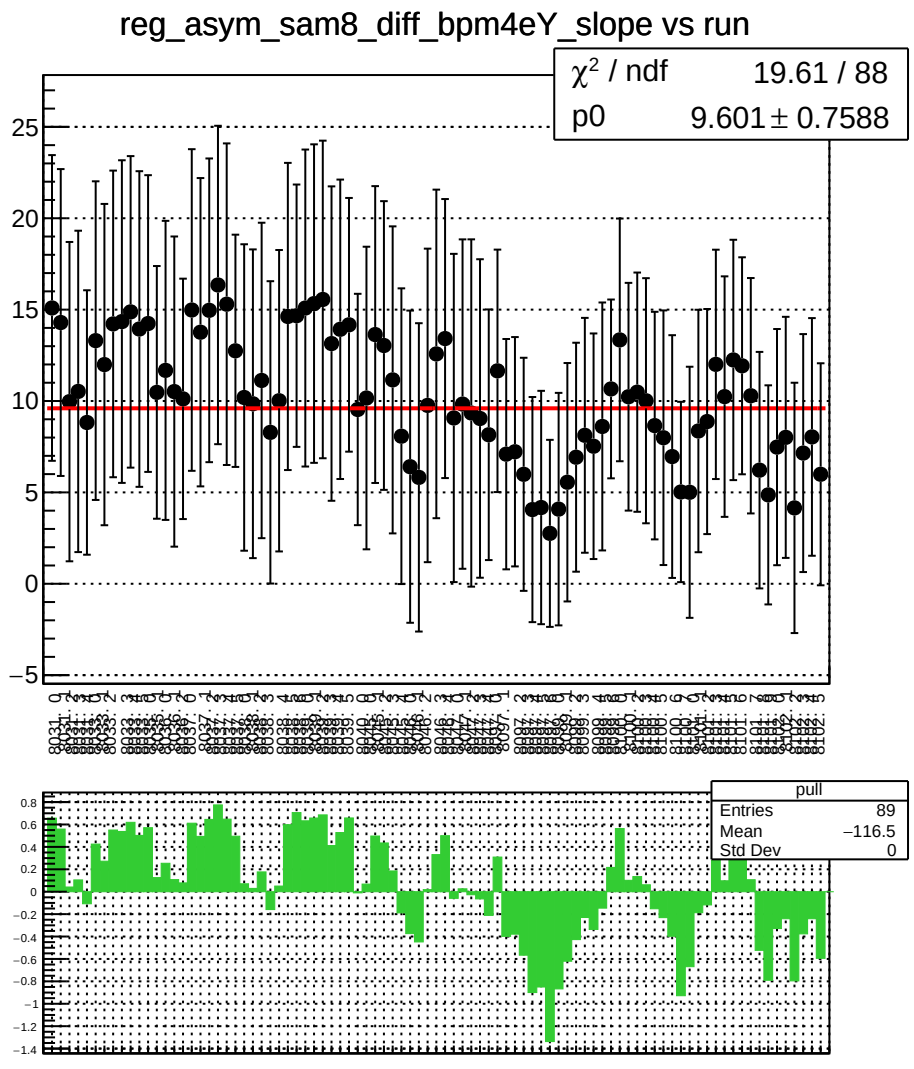

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 100.5 / 88
p0 0.8467 ± 0.06123
pull
Entries 89
Mean −73.66
Std Dev 0
pull1D
Entries 89
Mean 0.1996
Std Dev 1.044

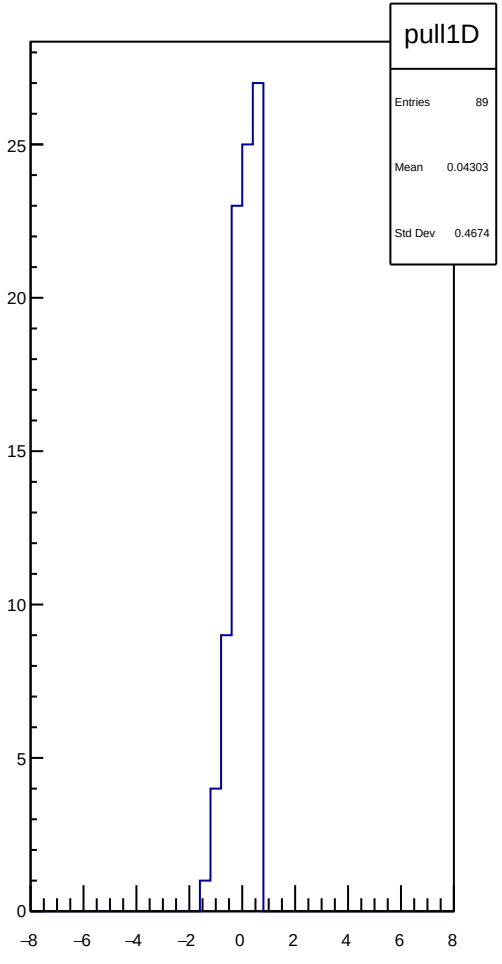

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 50.36 / 88
p0 14.51 ± 0.4391
pull
Entries 89
Mean −1119
Std Dev 0
pull1D
Entries 89
Mean 0.01471
Std Dev 0.7521

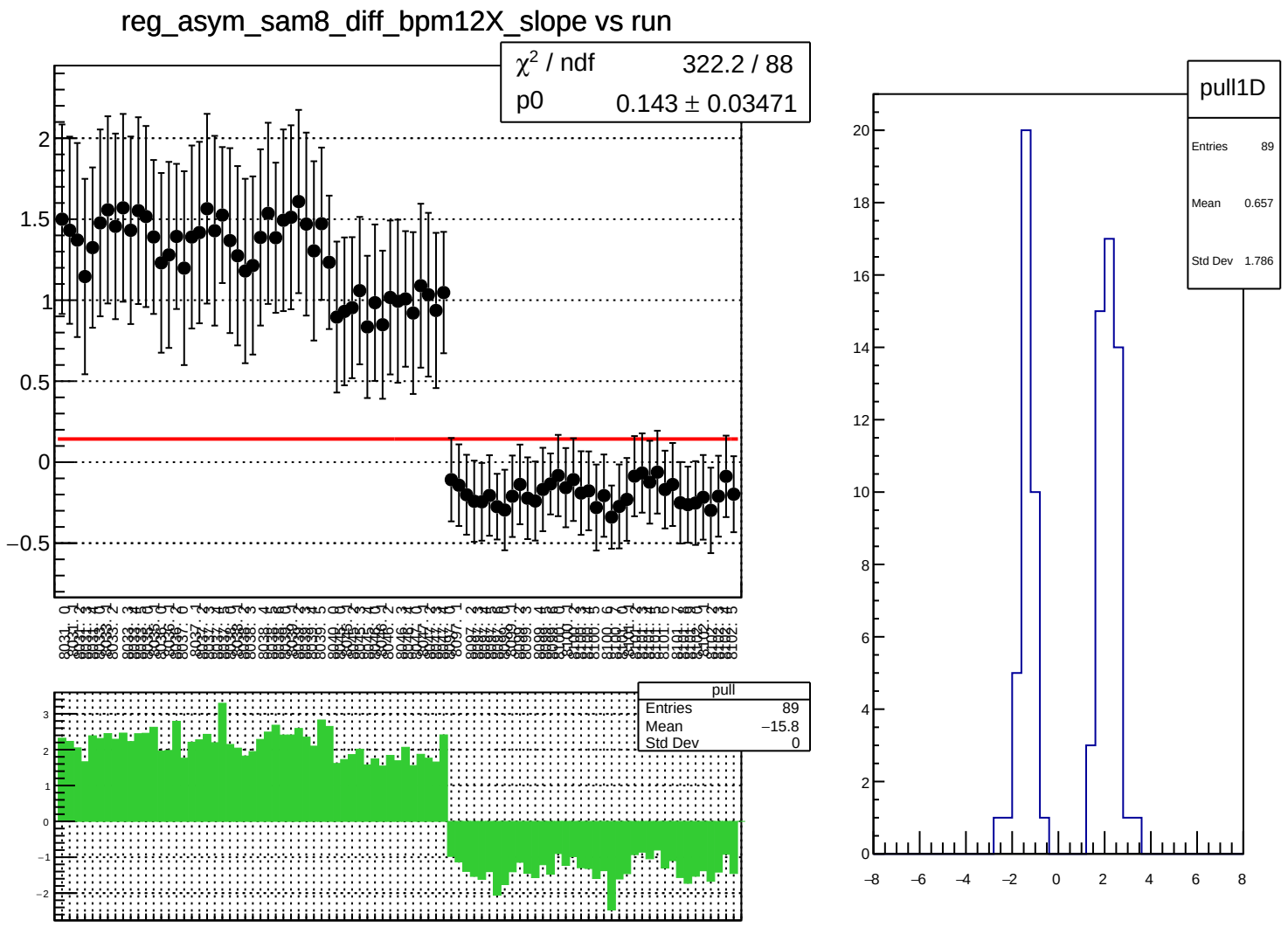

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 11.68 / 88
p0 −12.86 ± 0.7131
pull
Entries 89
Mean −168
Std Dev 0
pull1D
Entries 89
Mean 0.002968
Std Dev 0.3622

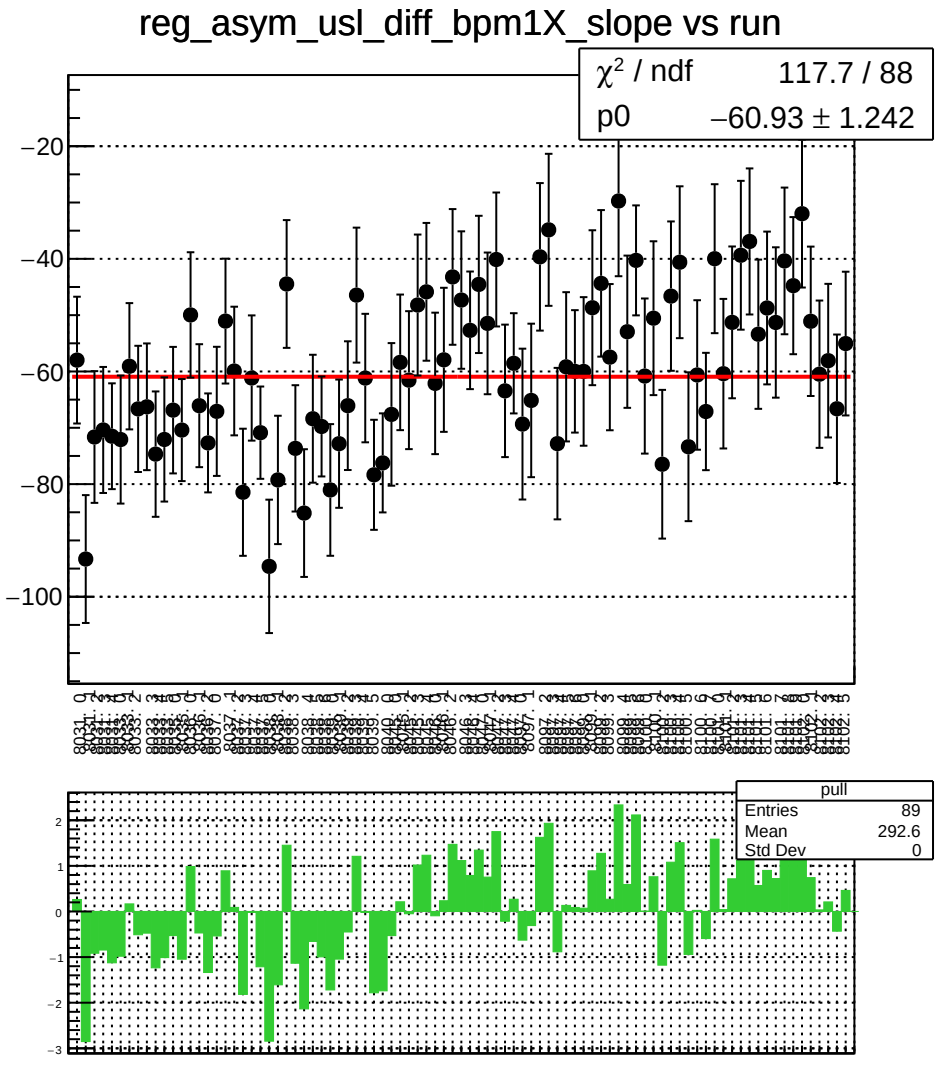

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 107 / 88
p0 −35.72 ± 0.4557
pull
Entries 89
Mean −144.4
Std Dev 0

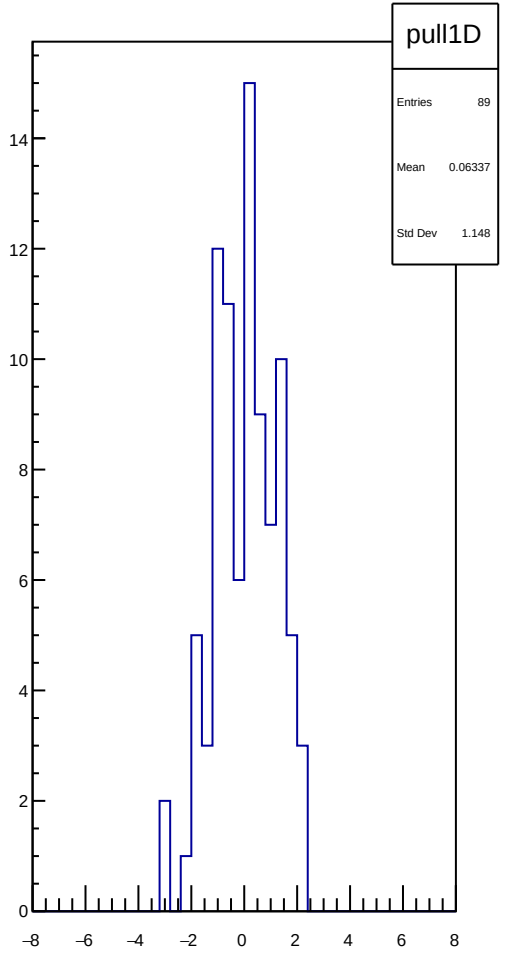

pull1D
Entries 89
Mean −0.129
Std Dev 1.089

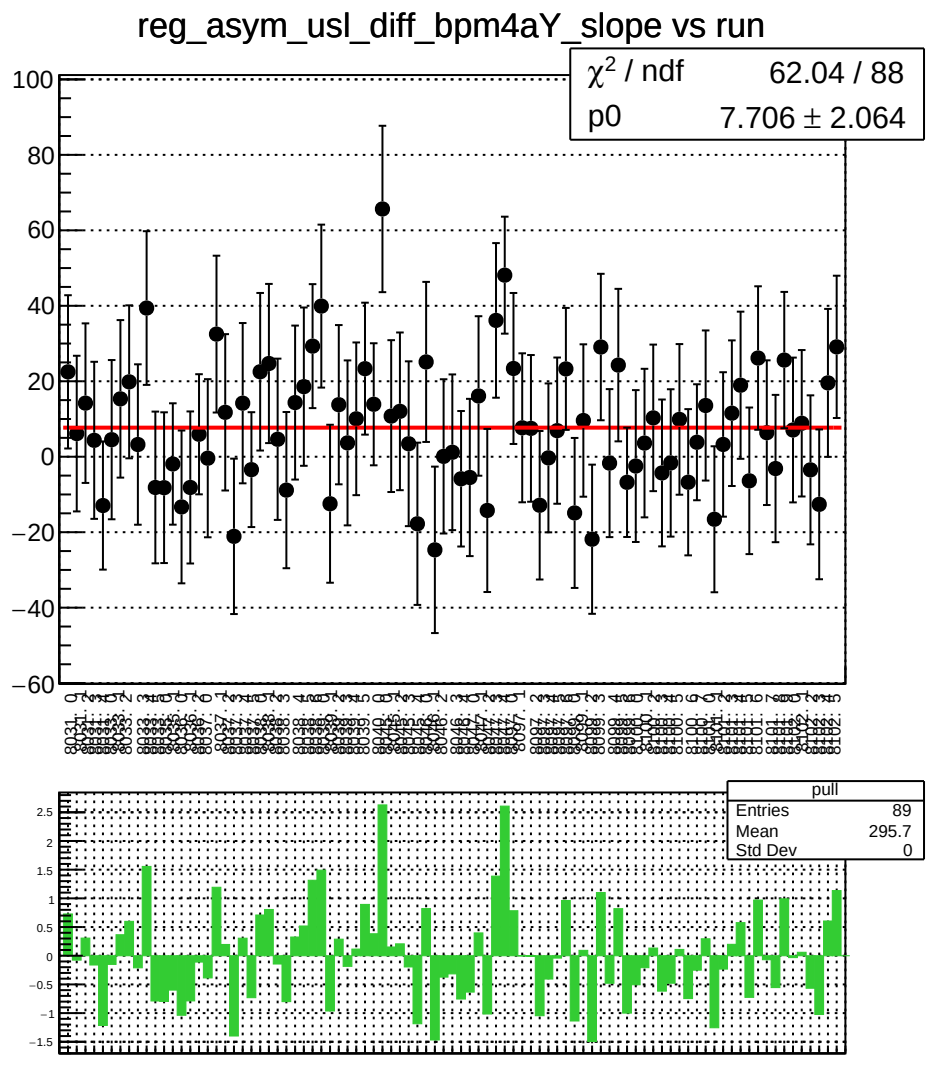

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 19.61 / 88
p0 9.601 ± 0.7588
pull
Entries 89
Mean −116.5
Std Dev 0

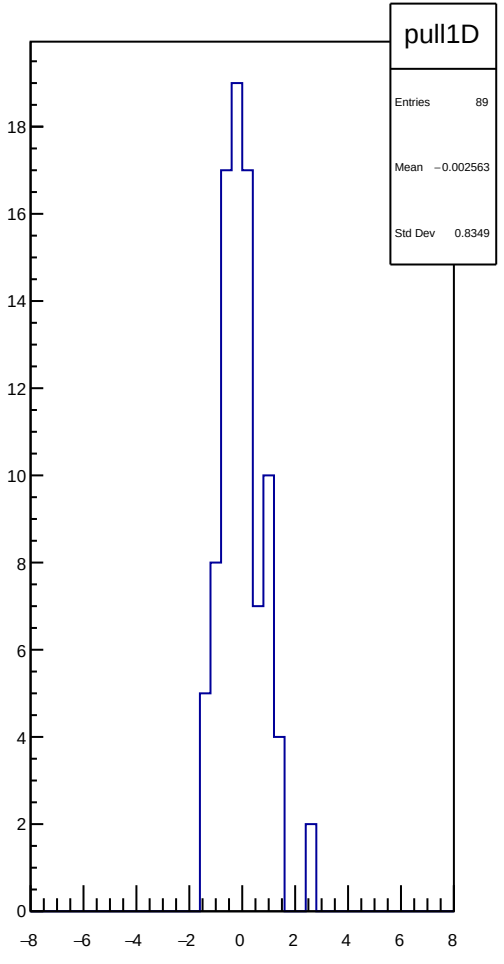

pull1D
Entries 89
Mean 0.04303
Std Dev 0.4674

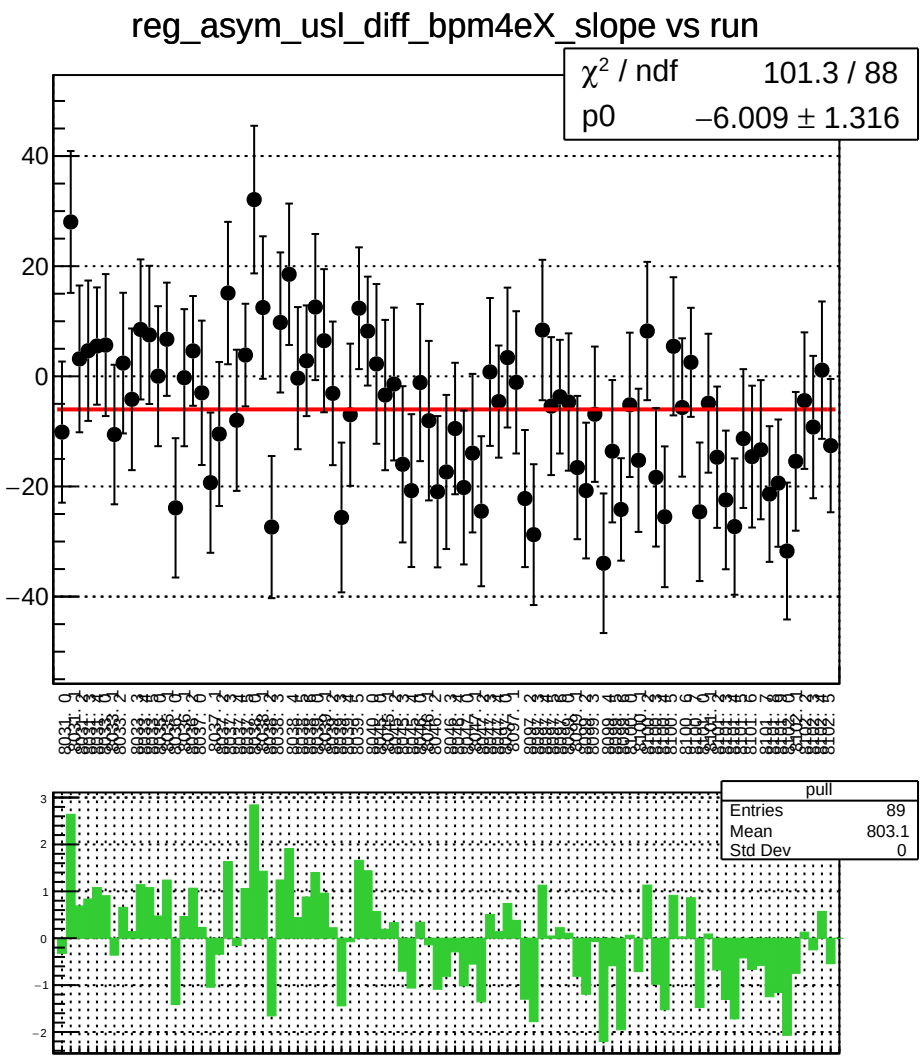

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 322.2 / 88
p0 0.143 ± 0.03471
pull
Entries 89
Mean −15.8
Std Dev 0
pull1D
Entries 89
Mean 0.657
Std Dev 1.786

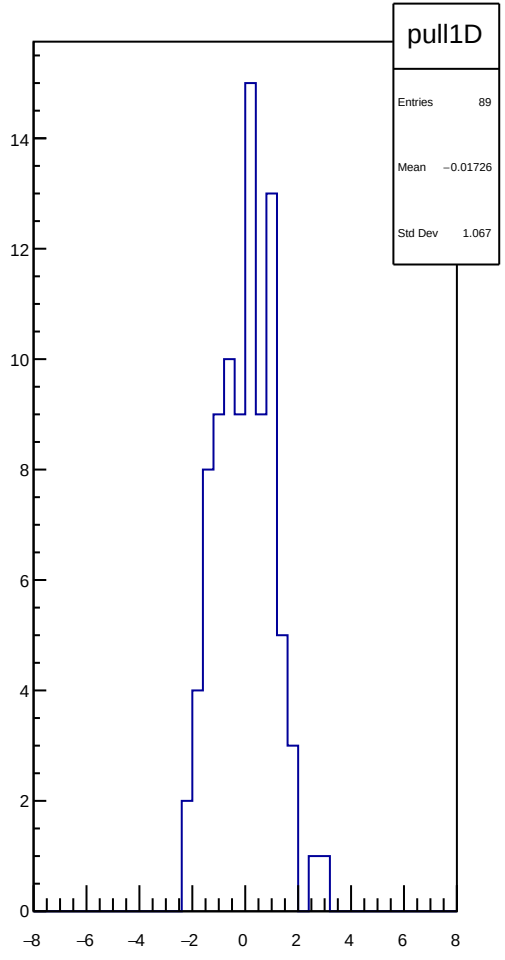

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 117.7 / 88
p0 −60.93 ± 1.242
−20
−40
−60
−80
−100
pull
Entries 89
Mean 292.6
Std Dev 0
2
1
0
−1
−2
−3

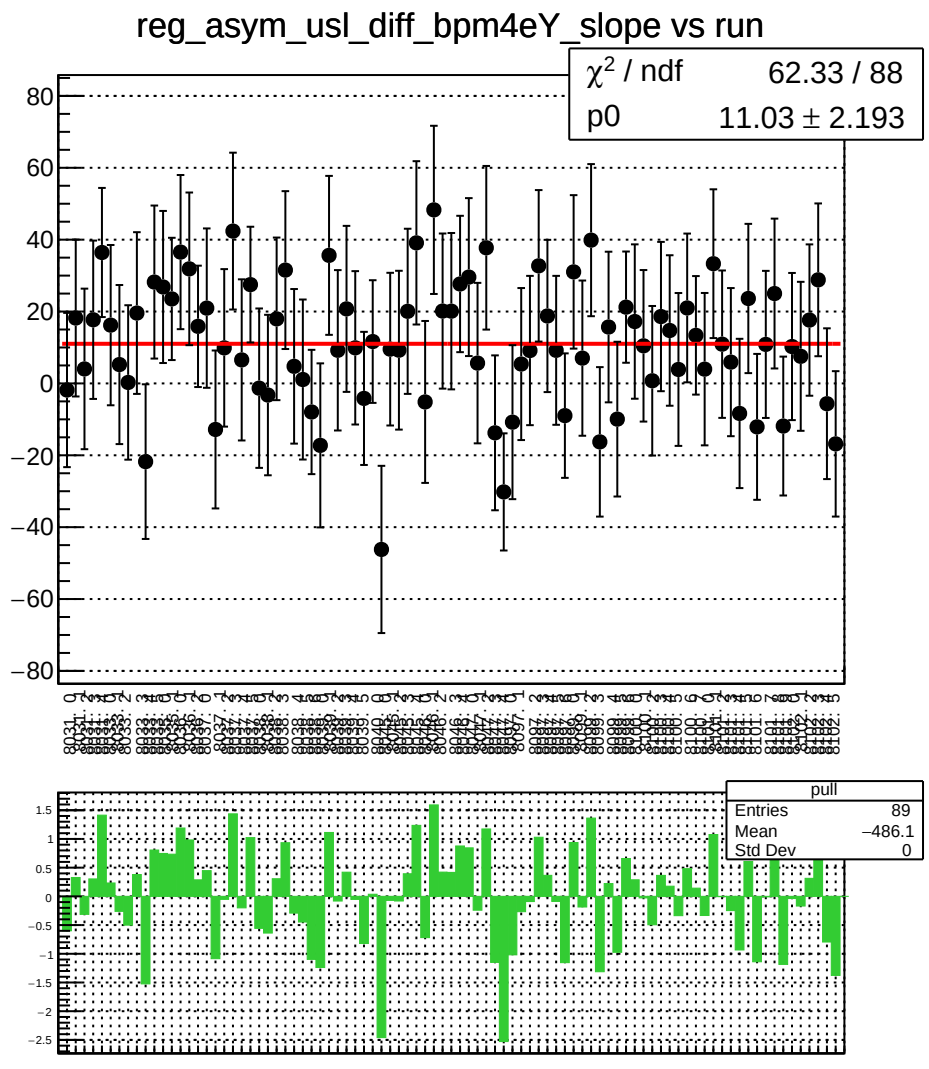

pull1D
Entries 89
Mean 0.06337
Std Dev 1.148
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

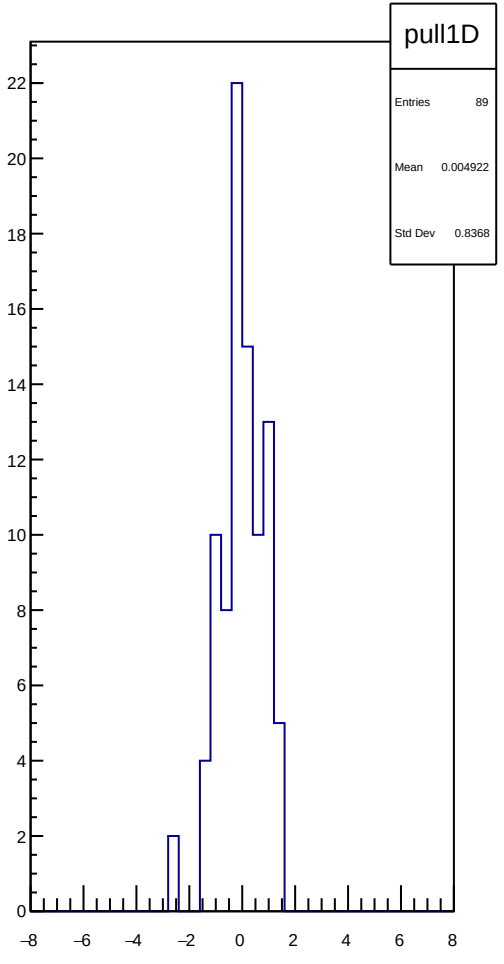

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 62.04 / 88
p0 7.706 ± 2.064
pull
Entries 89
Mean 295.7
Std Dev 0

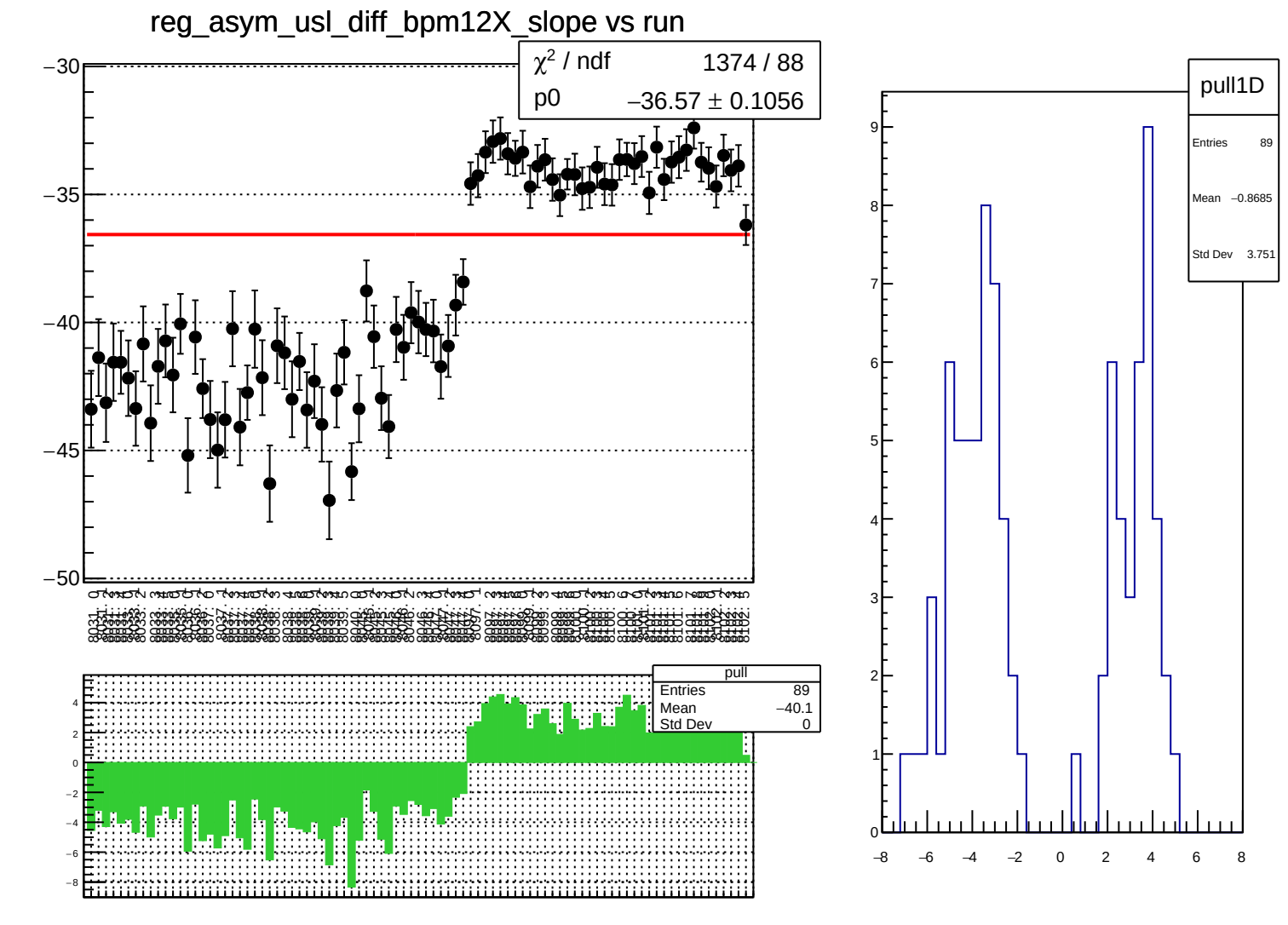

pull1D
Entries 89
Mean −0.002563
Std Dev 0.8349

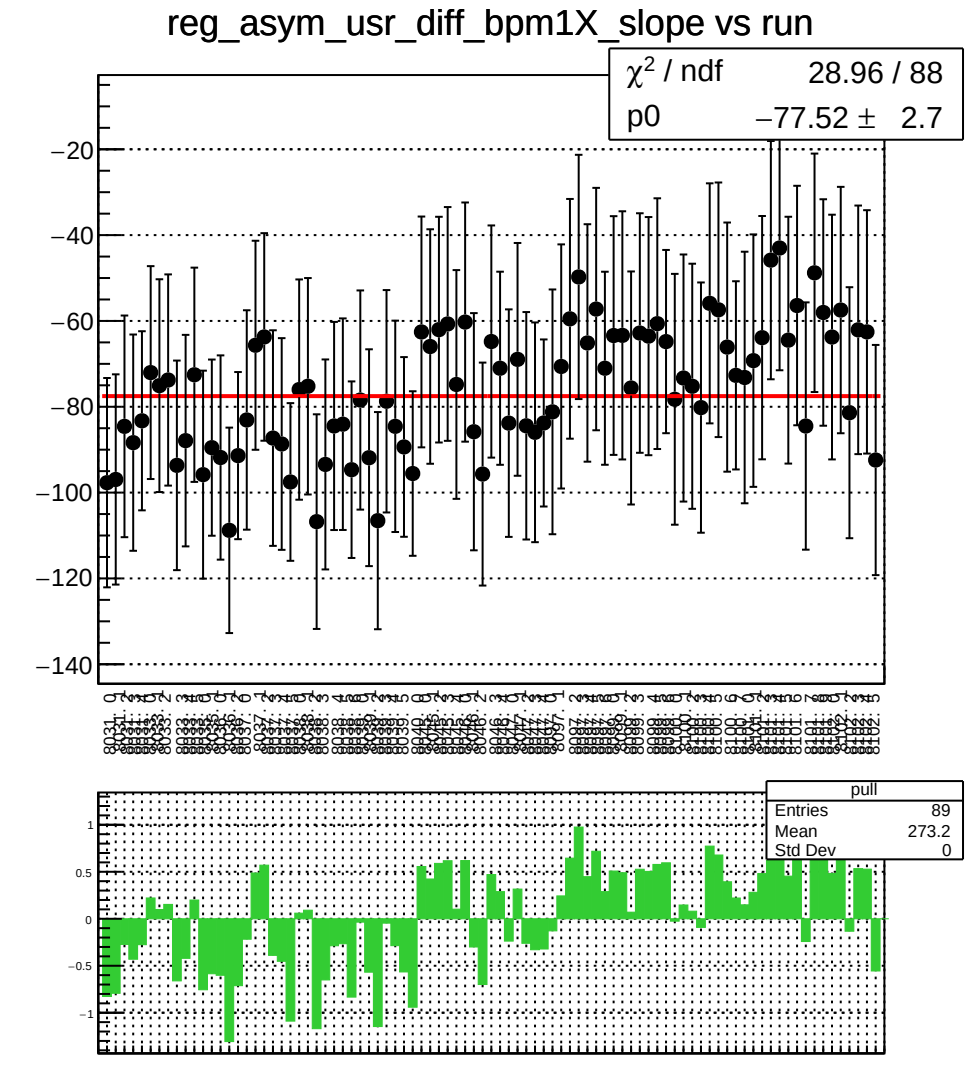

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 101.3 / 88
p0 −6.009 ± 1.316
40
20
0
−20
−40
pull
Entries 89
Mean 803.1
Std Dev 0
3
2
1
0
−1
−2

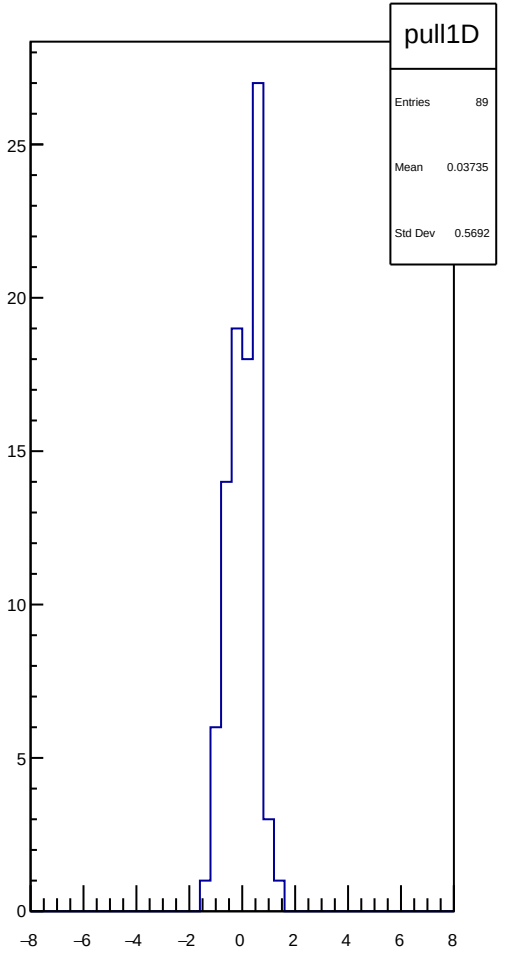

pull1D
Entries 89
Mean −0.01726
Std Dev 1.067
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

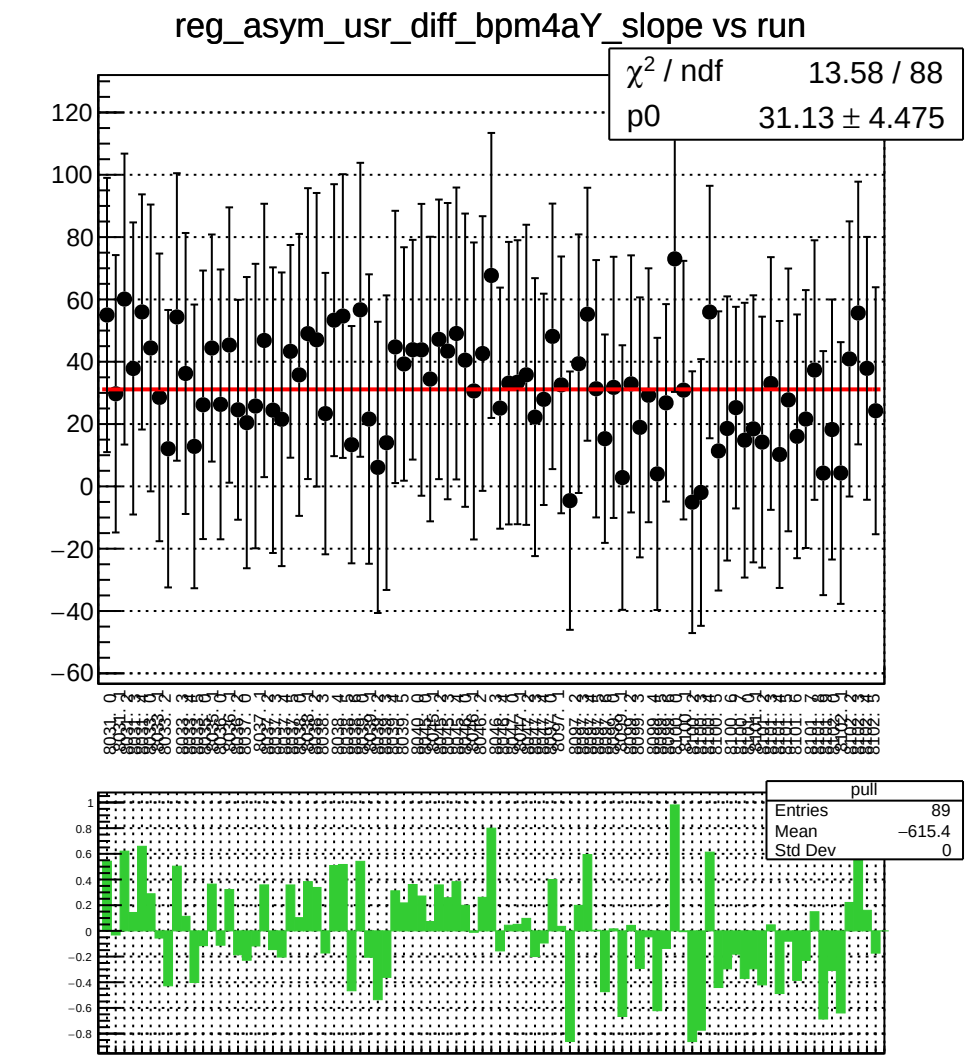

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 62.33 / 88
p0 11.03 ± 2.193
pull
Entries 89
Mean −486.1
Std Dev 0

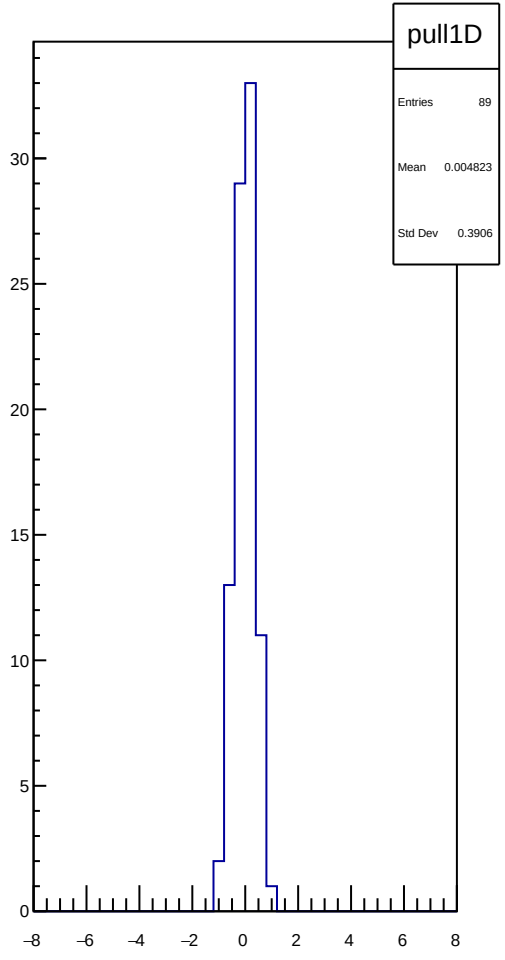

pull1D
Entries 89
Mean 0.004922
Std Dev 0.8368

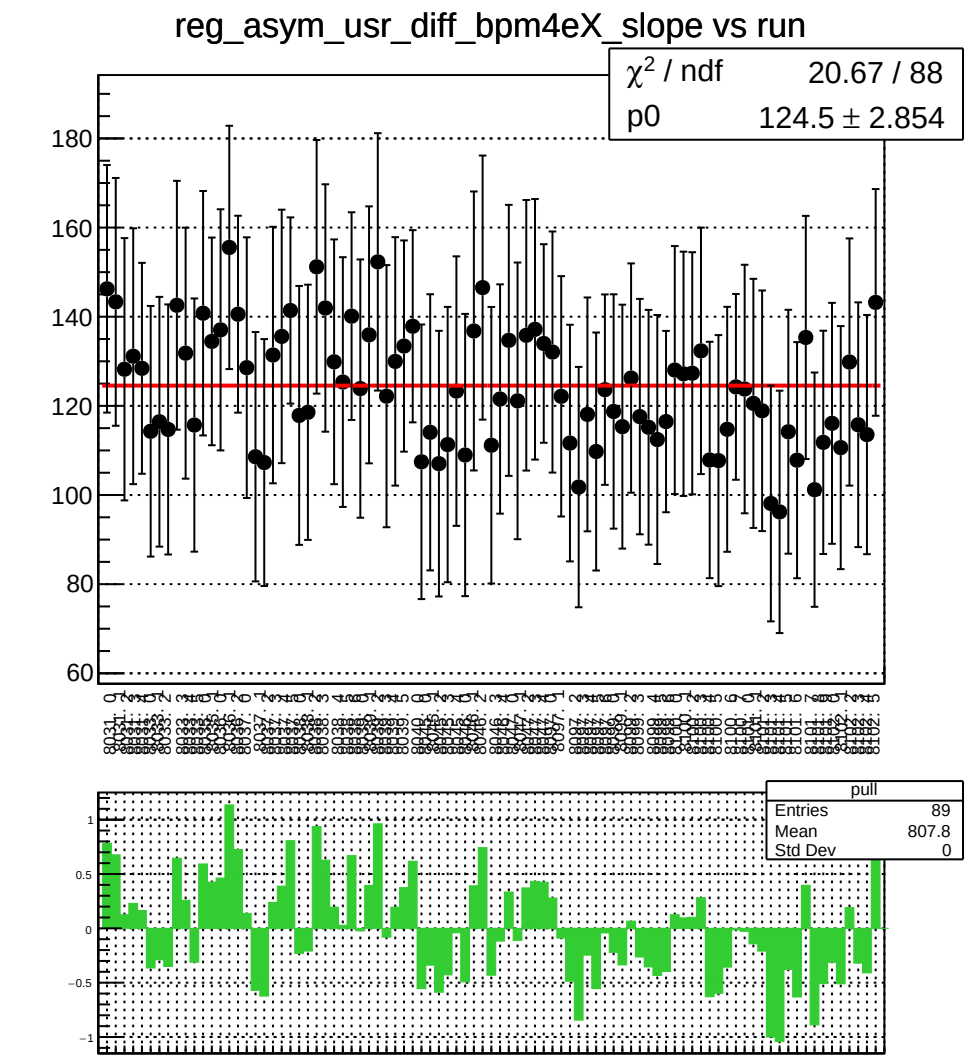

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 1374 / 88
p0 −36.57 ± 0.1056
−30
−35
−40
−45
−50
pull
Entries 89
Mean −40.1
Std Dev 0
pull1D
Entries 89
Mean −0.8685
Std Dev 3.751

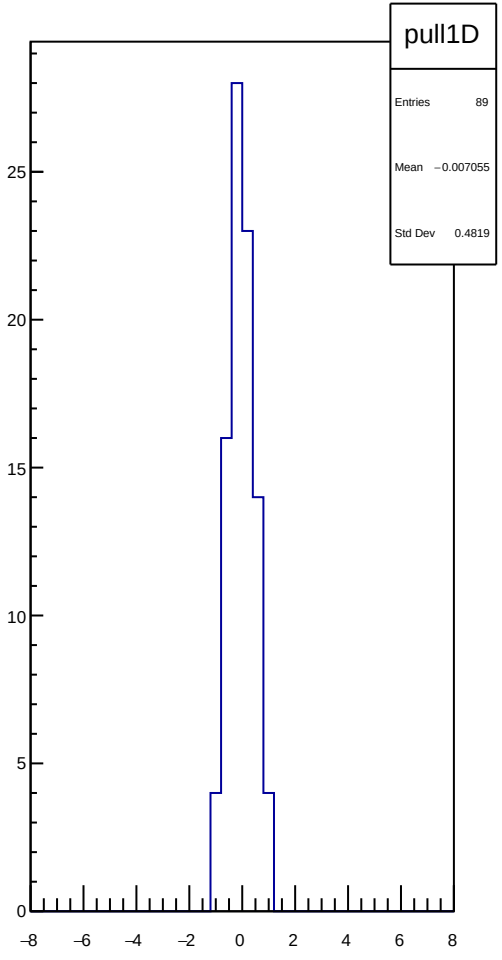

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 28.96 / 88
p0 −77.52 ± 2.7
pull
Entries 89
Mean 273.2
Std Dev 0

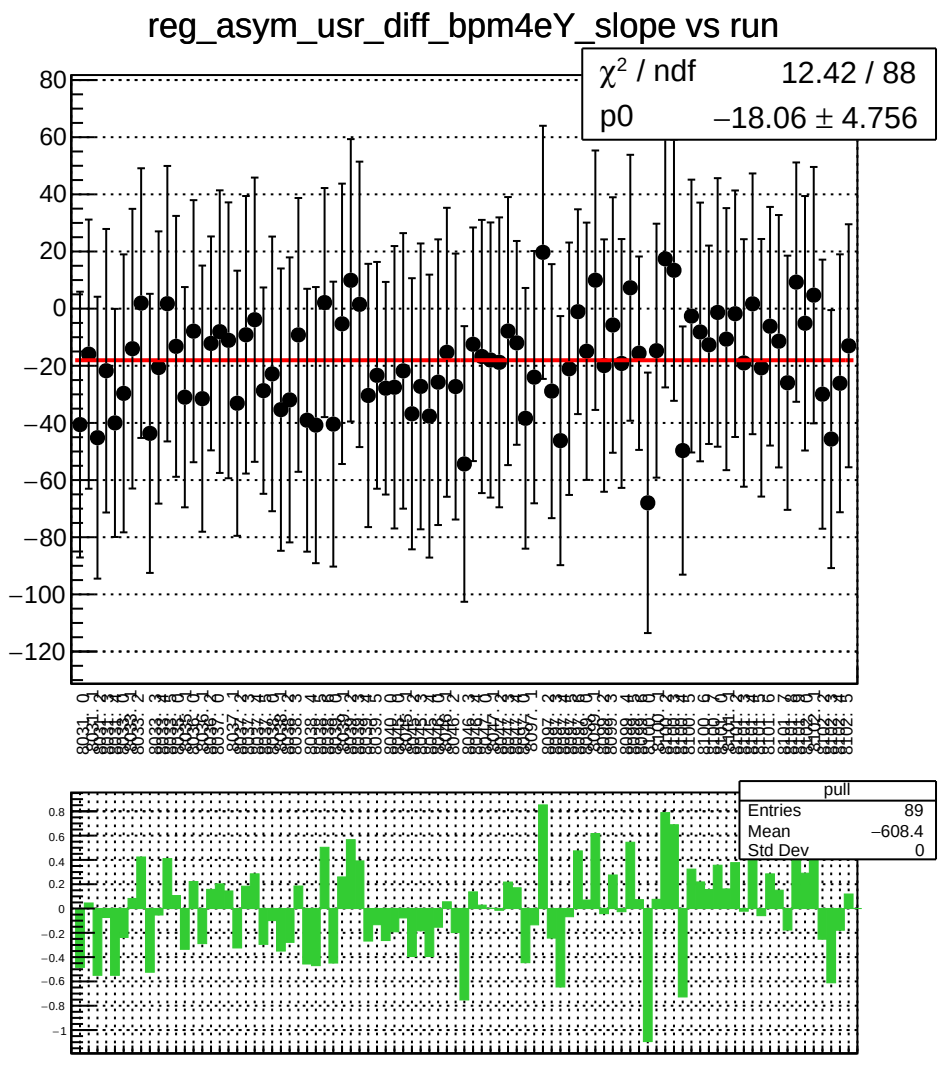

pull1D
Entries 89
Mean 0.03735
Std Dev 0.5692

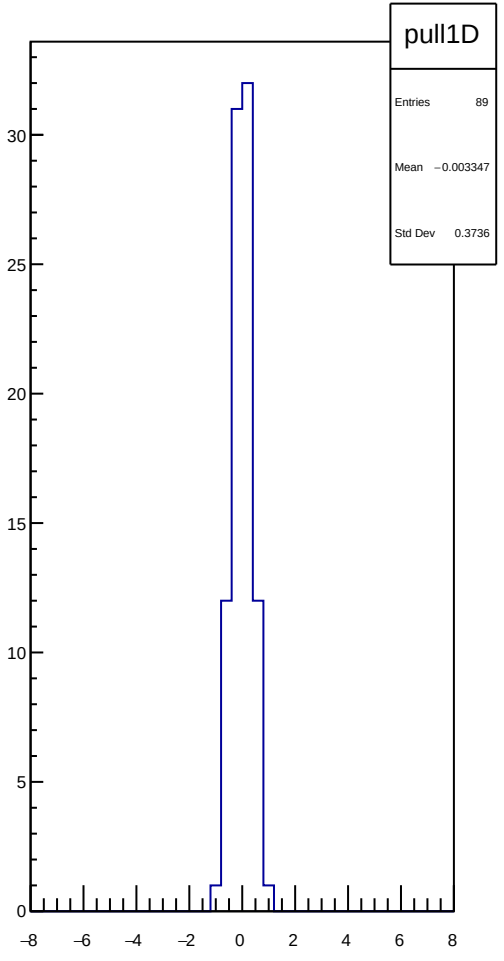

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 13.58 / 88
p0 31.13 ± 4.475
pull
Entries 89
Mean −615.4
Std Dev 0

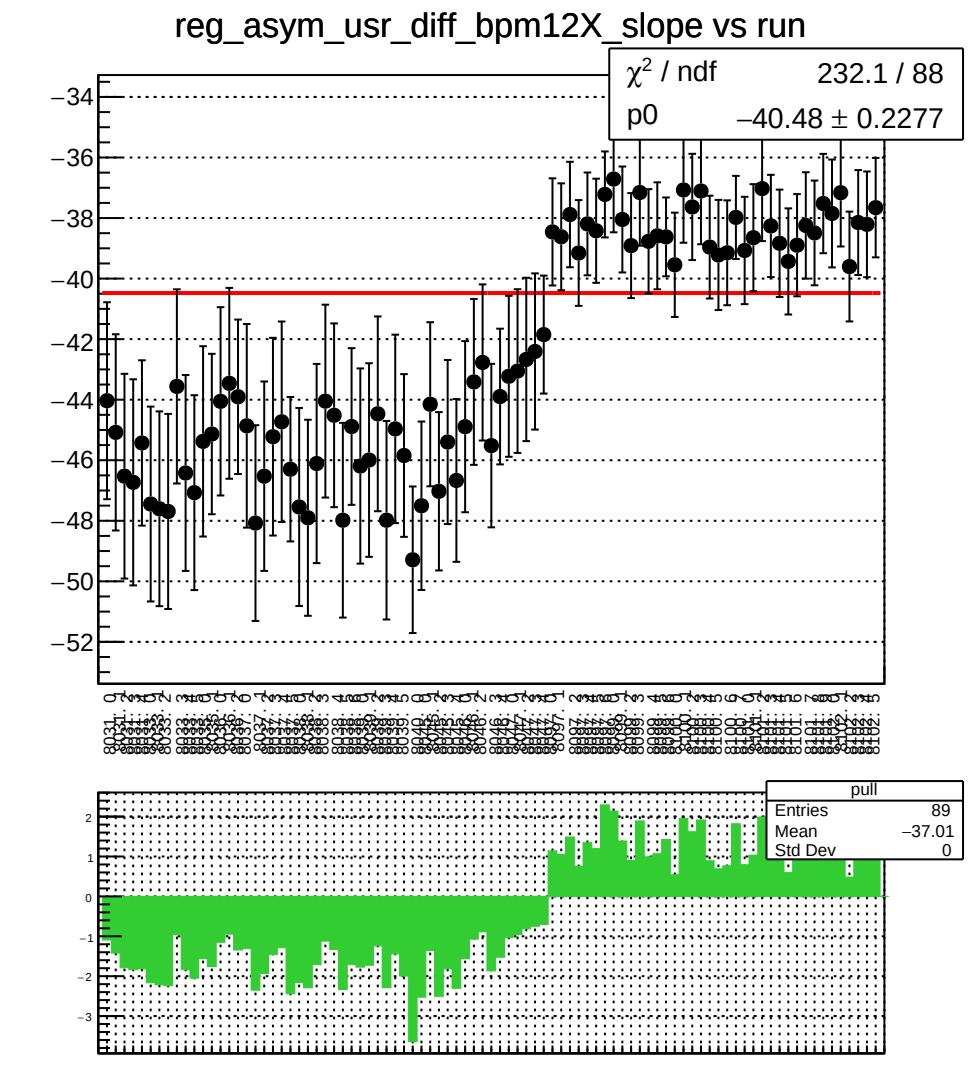

pull1D
Entries 89
Mean 0.004823
Std Dev 0.3906

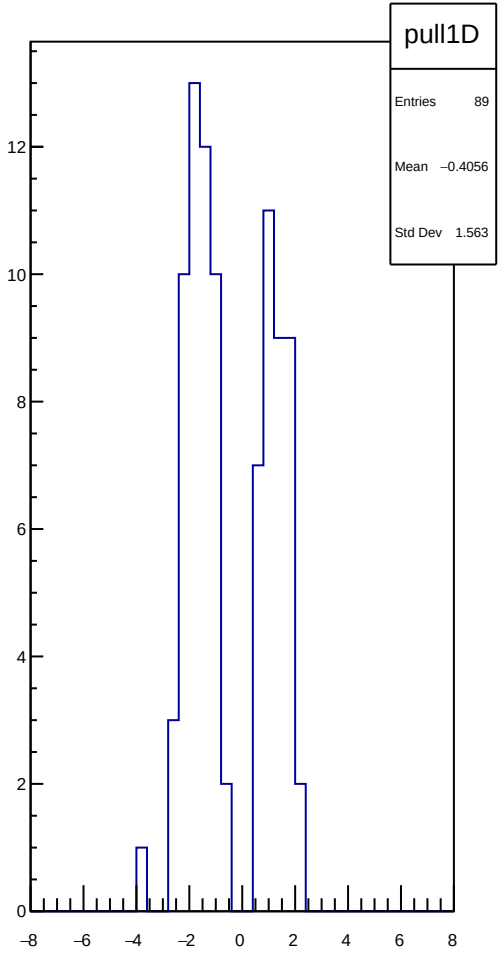

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 20.67 / 88
p0 124.5 ± 2.854
pull
Entries 89
Mean 807.8
Std Dev 0

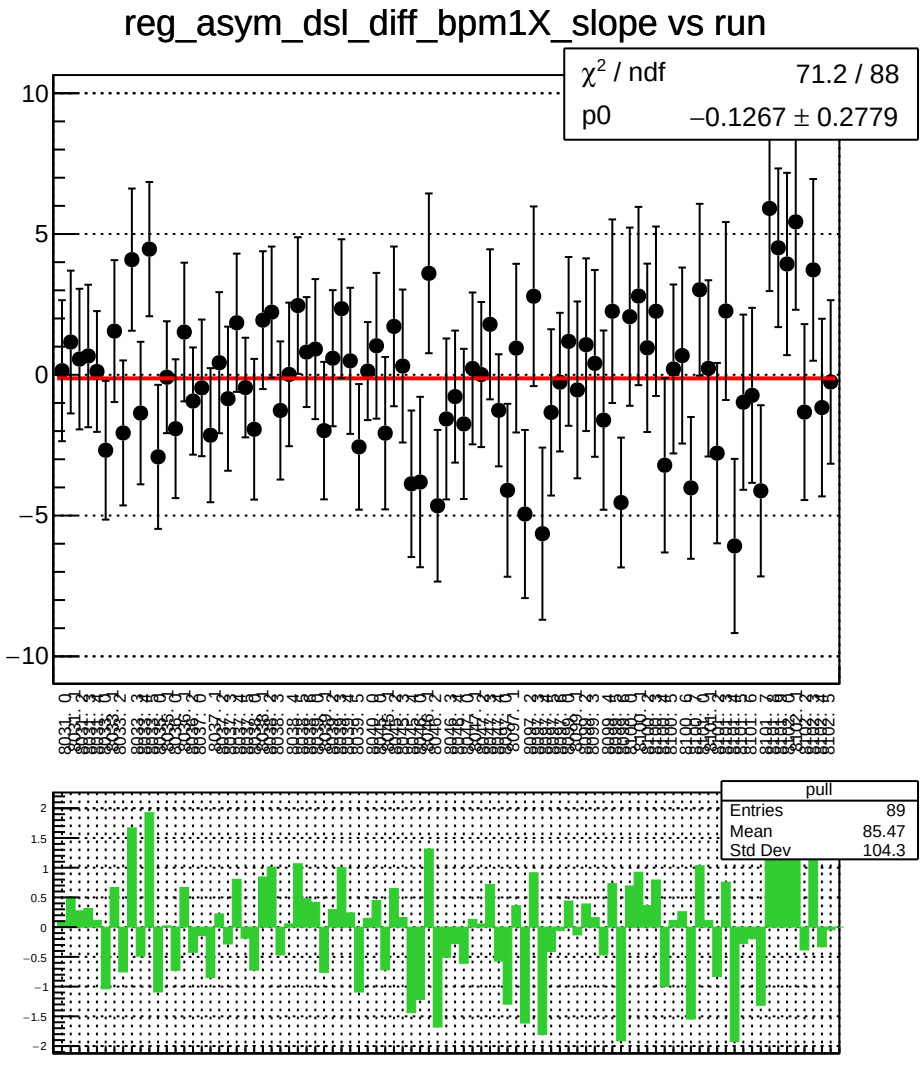

pull1D
Entries 89
Mean −0.007055
Std Dev 0.4819

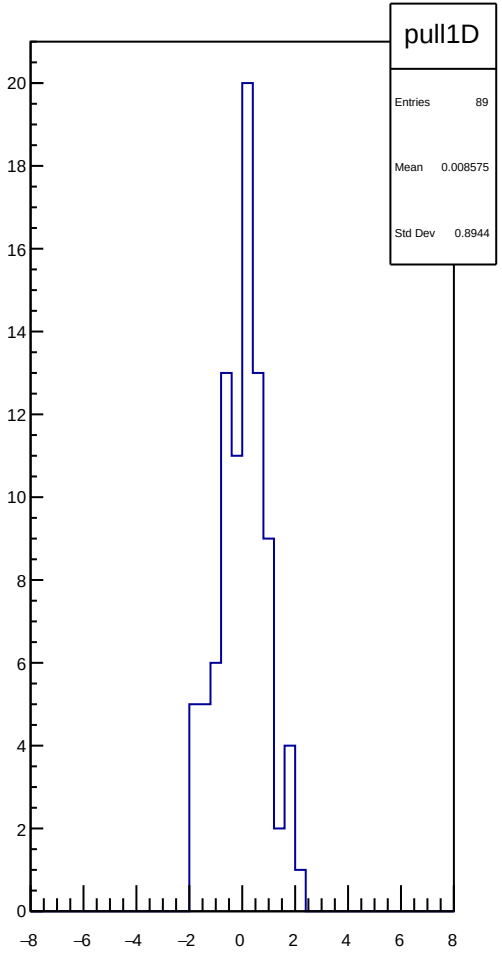

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 12.42 / 88
p0 −18.06 ± 4.756
pull
Entries 89
Mean −608.4
Std Dev 0

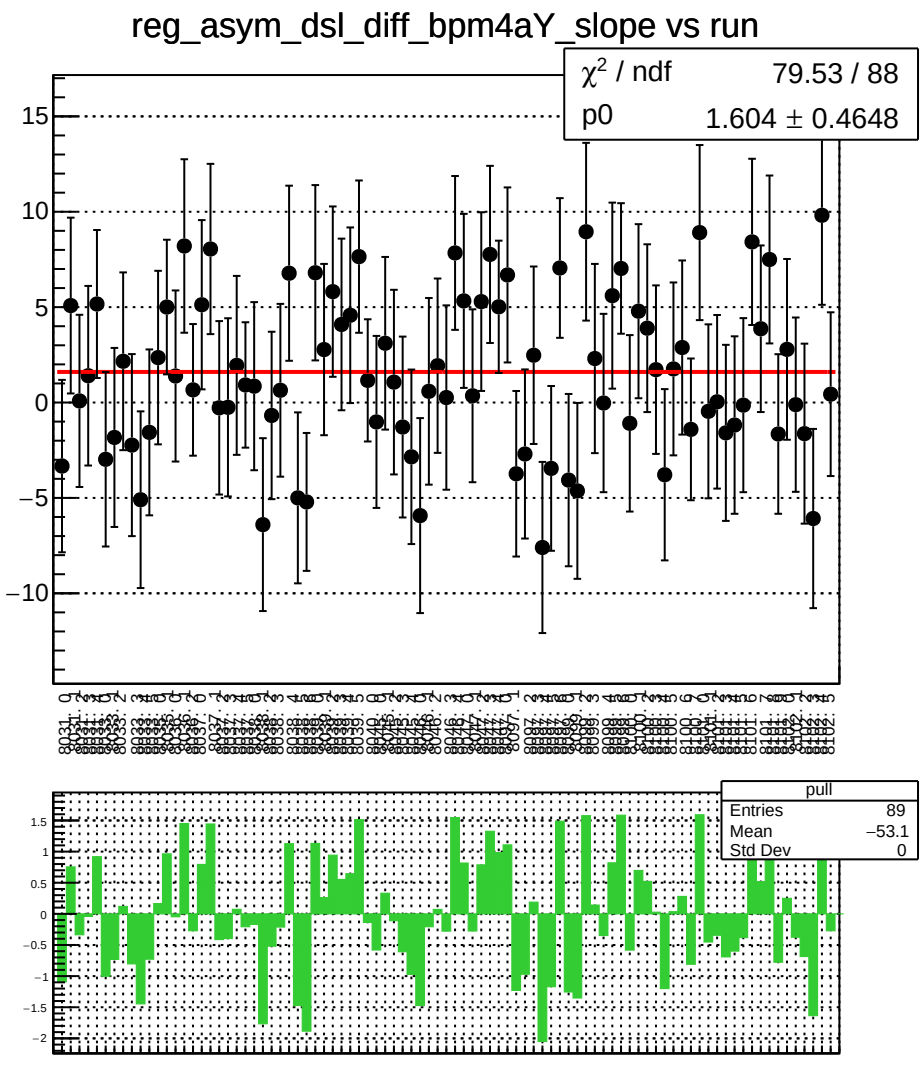

pull1D
Entries 89
Mean −0.003347
Std Dev 0.3736

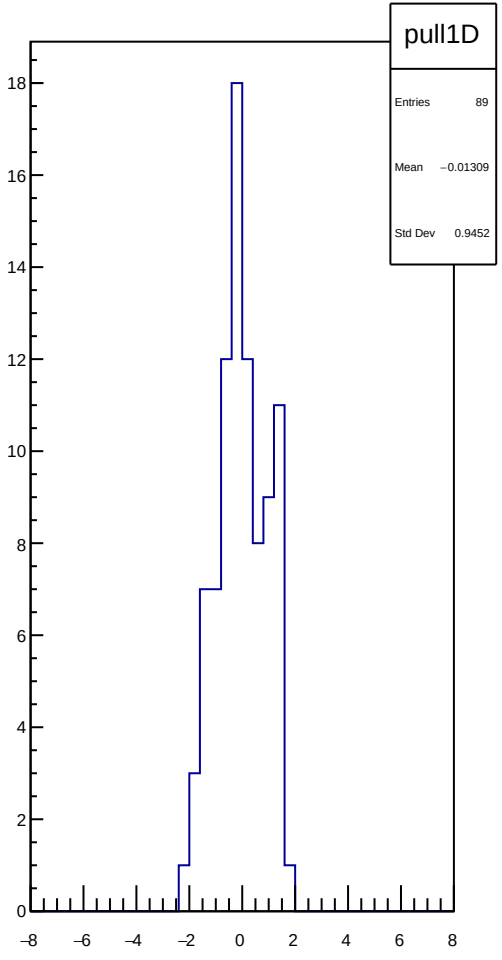

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 232.1 / 88
p0 −40.48 ± 0.2277
pull
Entries 89
Mean −37.01
Std Dev 0

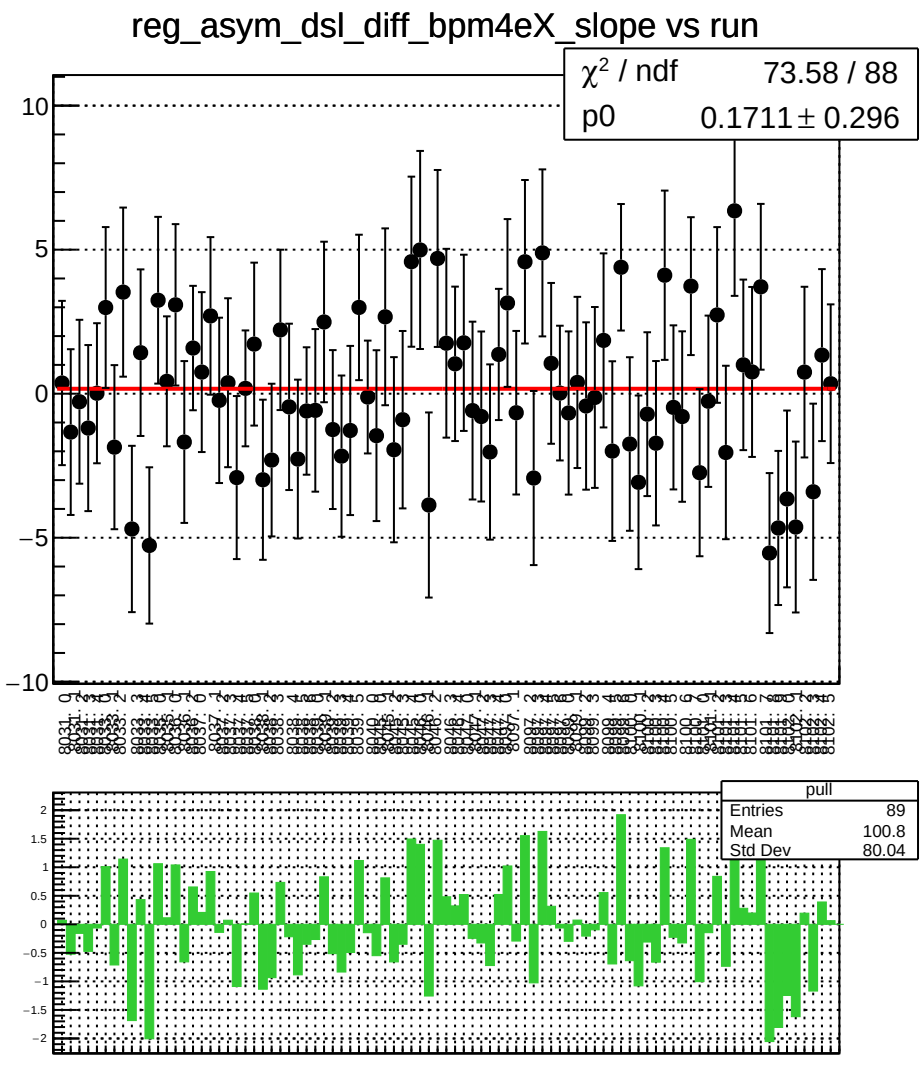

pull1D
Entries 89
Mean −0.4056
Std Dev 1.563

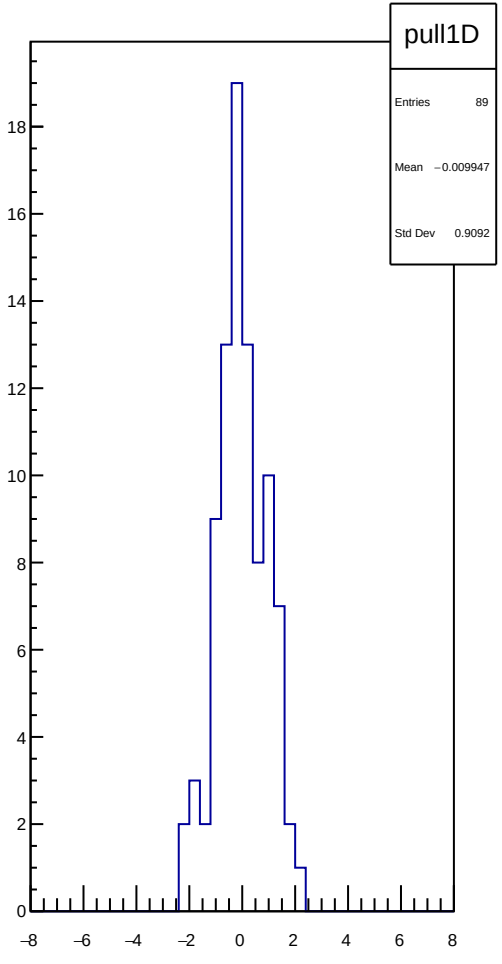

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 71.2 / 88
p0 −0.1267 ± 0.2779
pull
Entries 89
Mean 85.47
Std Dev 104.3

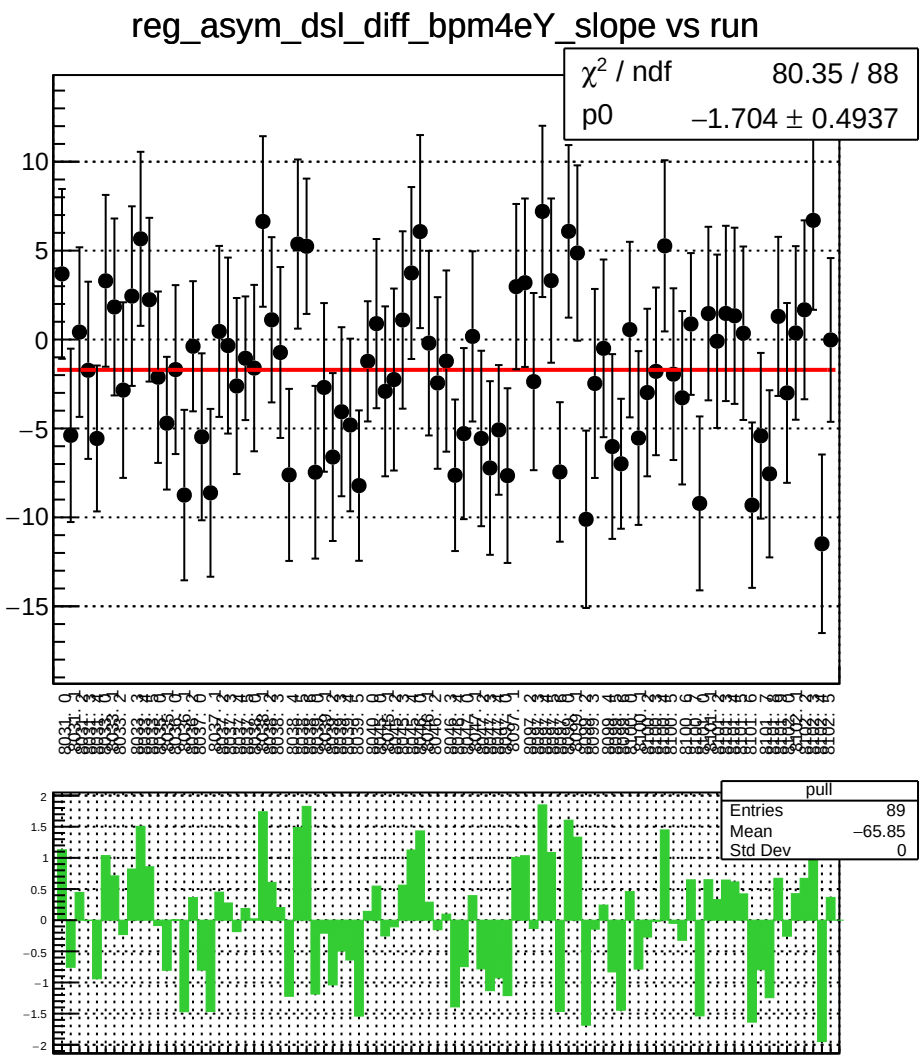

pull1D
Entries 89
Mean 0.008575
Std Dev 0.8944

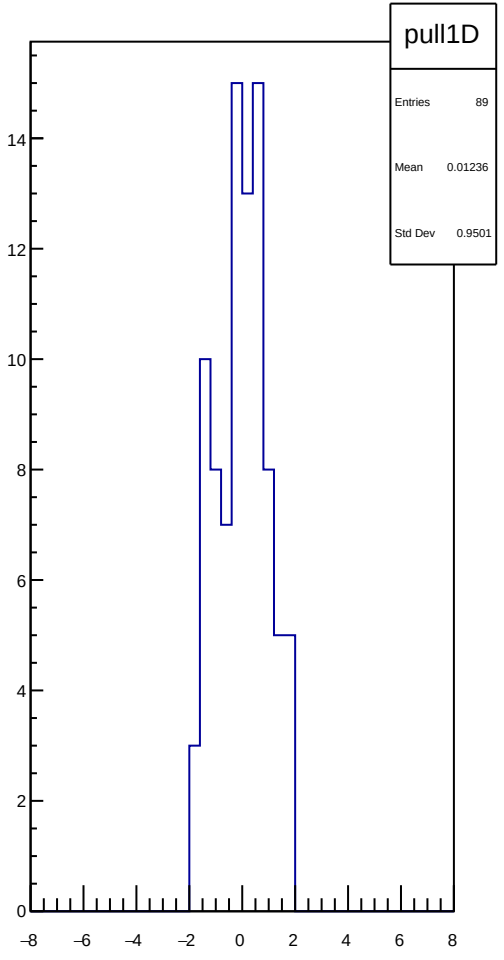

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 79.53 / 88
p0 1.604 ± 0.4648
pull
Entries 89
Mean −53.1
Std Dev 0

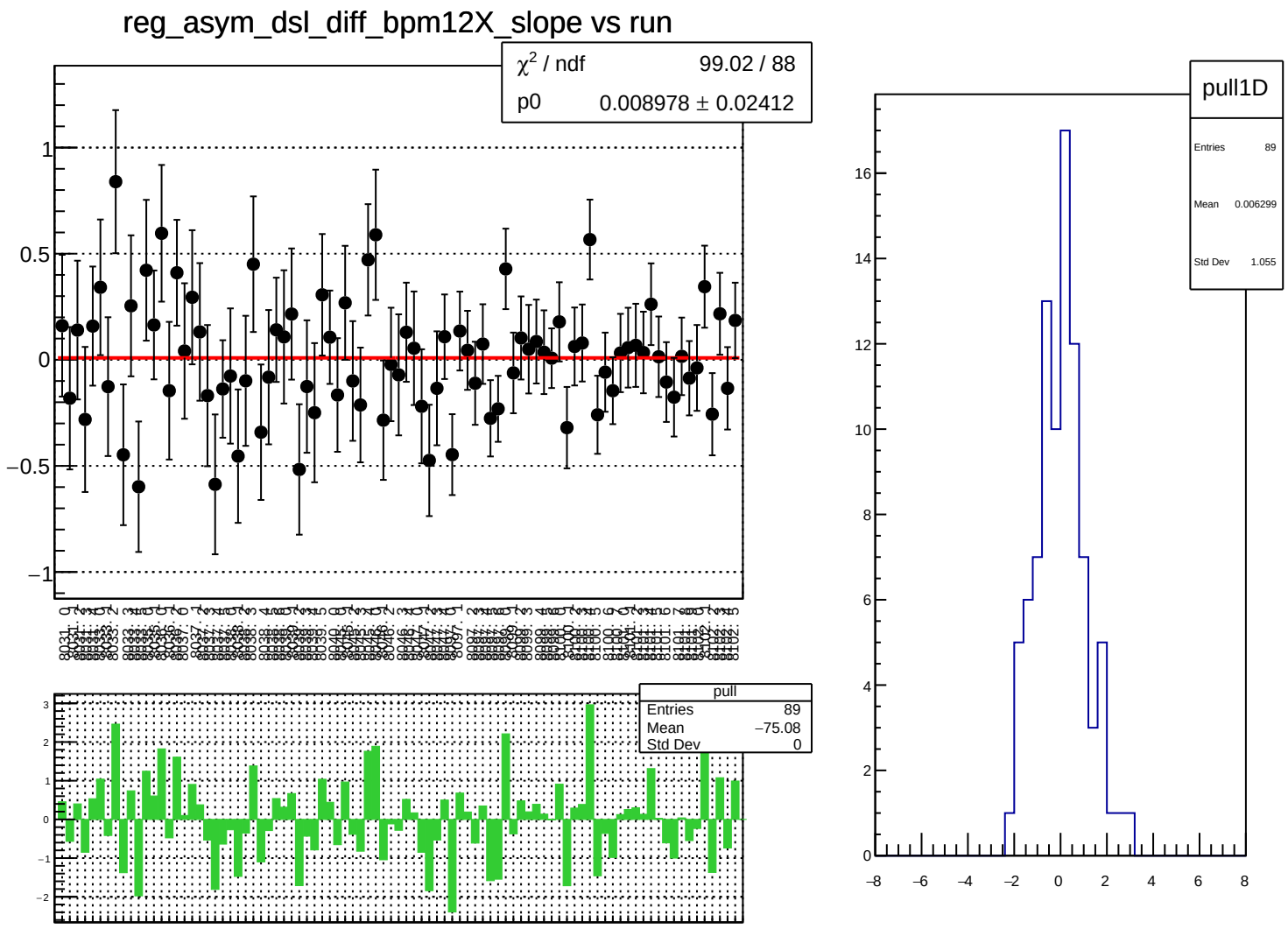

pull1D
Entries 89
Mean −0.01309
Std Dev 0.9452

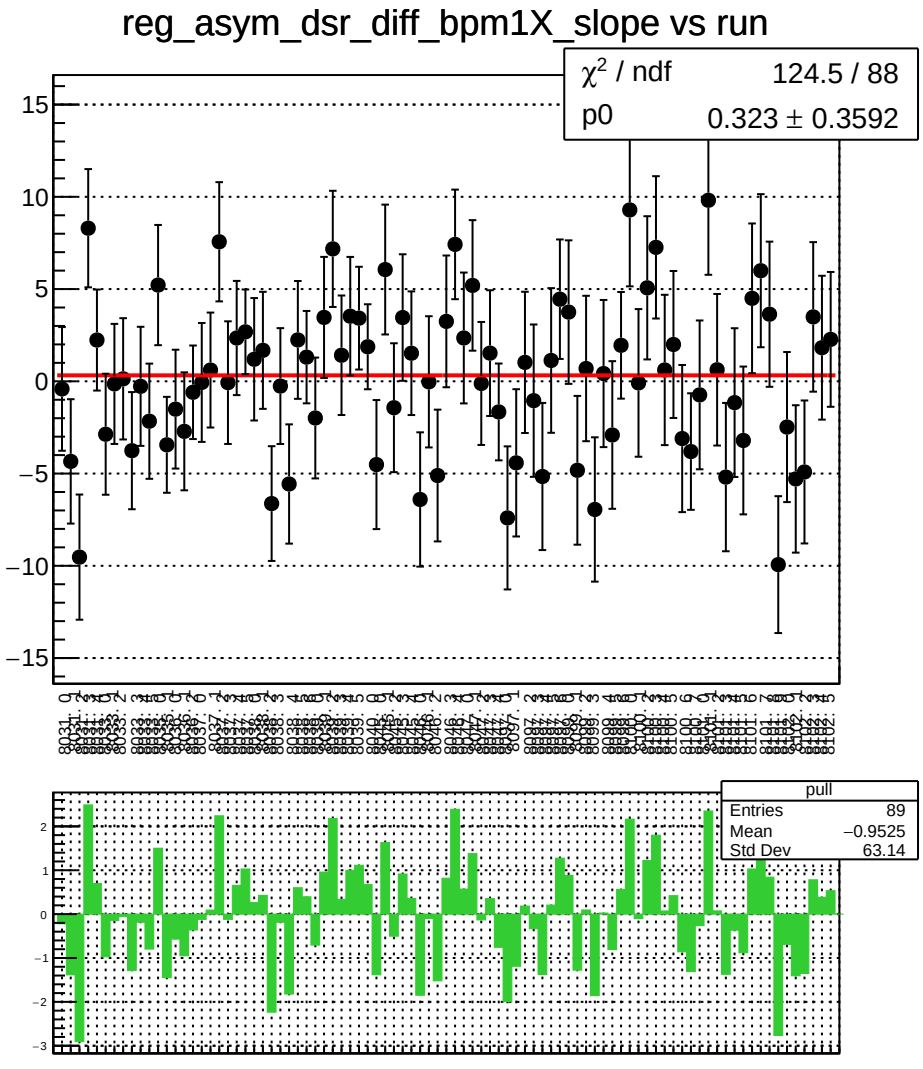

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 73.58 / 88
p0 0.1711 ± 0.296
pull
Entries 89
Mean 100.8
Std Dev 80.04

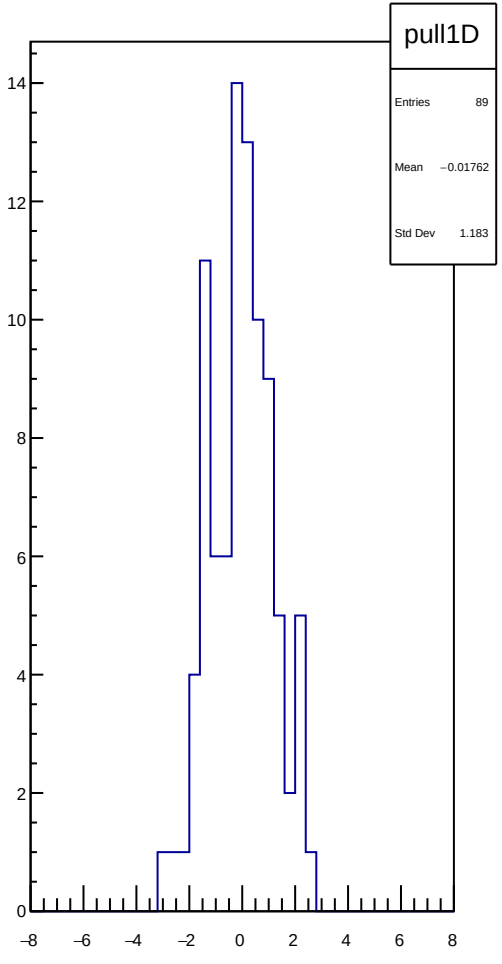

pull1D
Entries 89
Mean −0.009947
Std Dev 0.9092

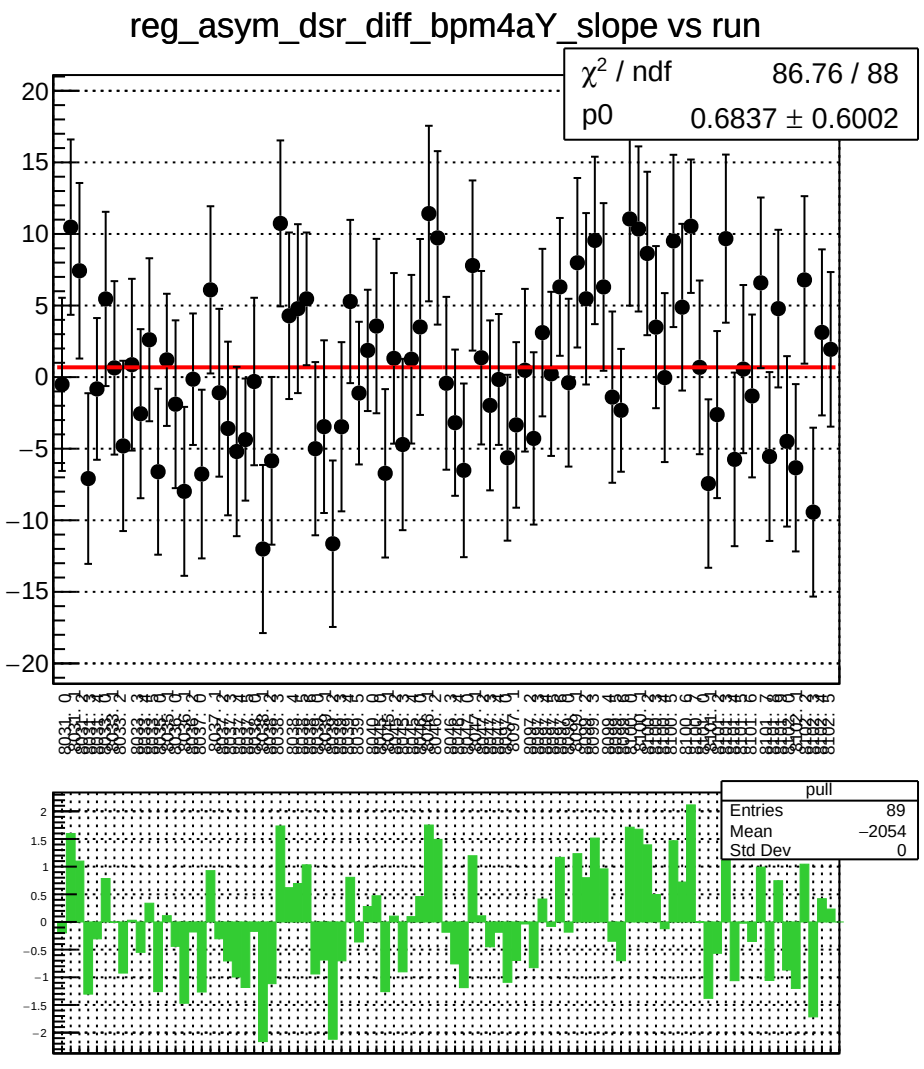

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 80.35 / 88
p0 −1.704 ± 0.4937
pull
Entries 89
Mean −65.85
Std Dev 0

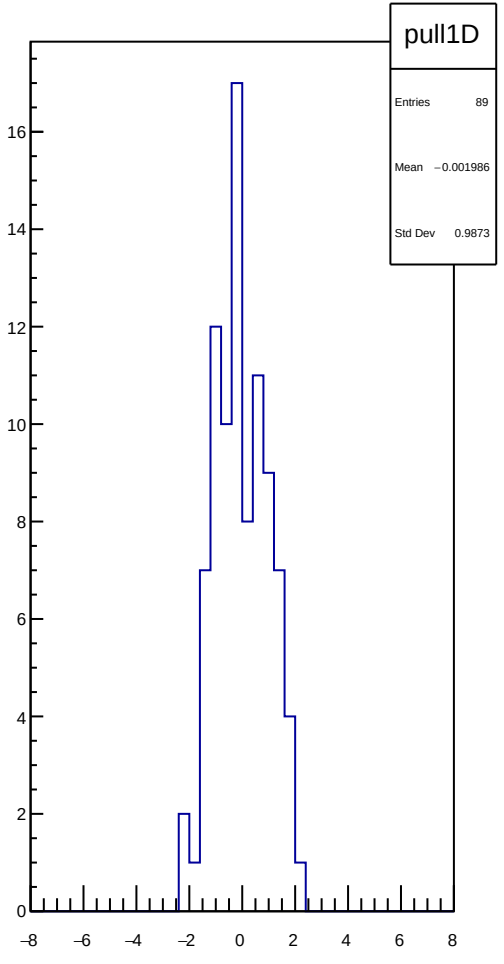

pull1D
Entries 89
Mean 0.01236
Std Dev 0.9501

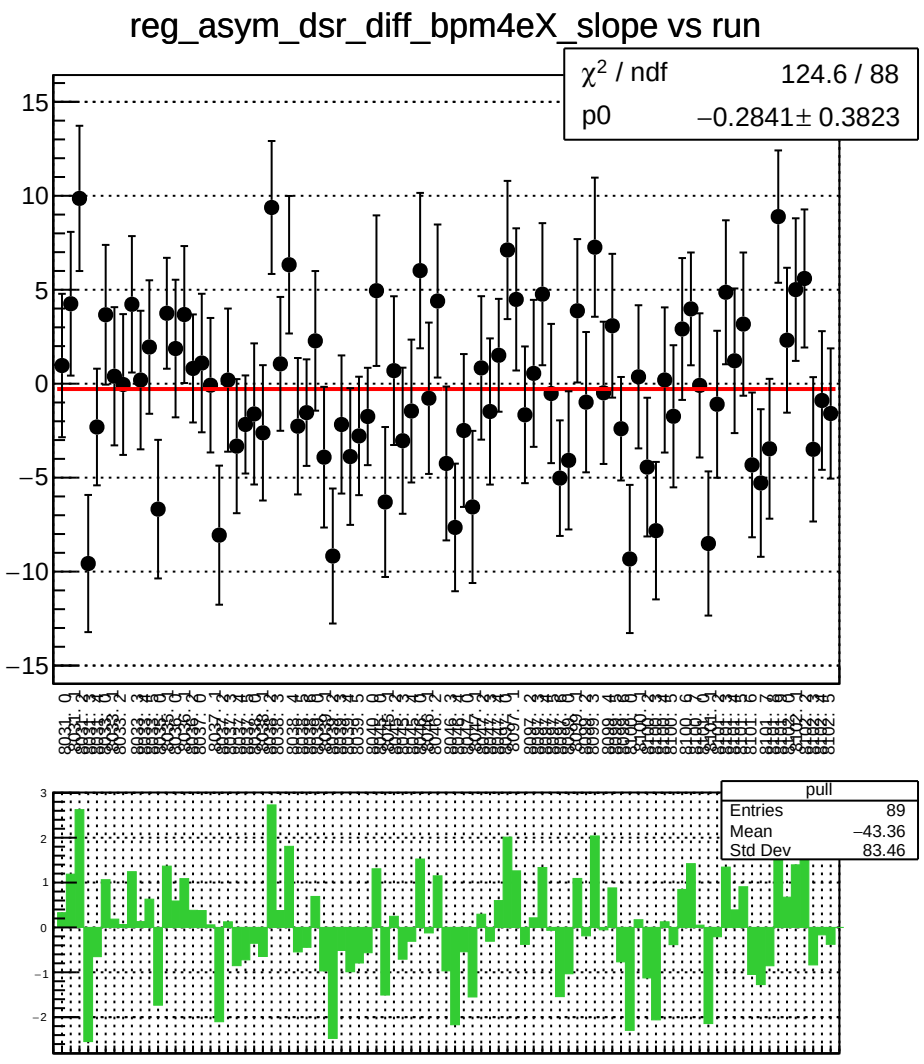

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 99.02 / 88
p0 0.008978 ± 0.02412
pull
Entries 89
Mean −75.08
Std Dev 0
pull1D
Entries 89
Mean 0.006299
Std Dev 1.055

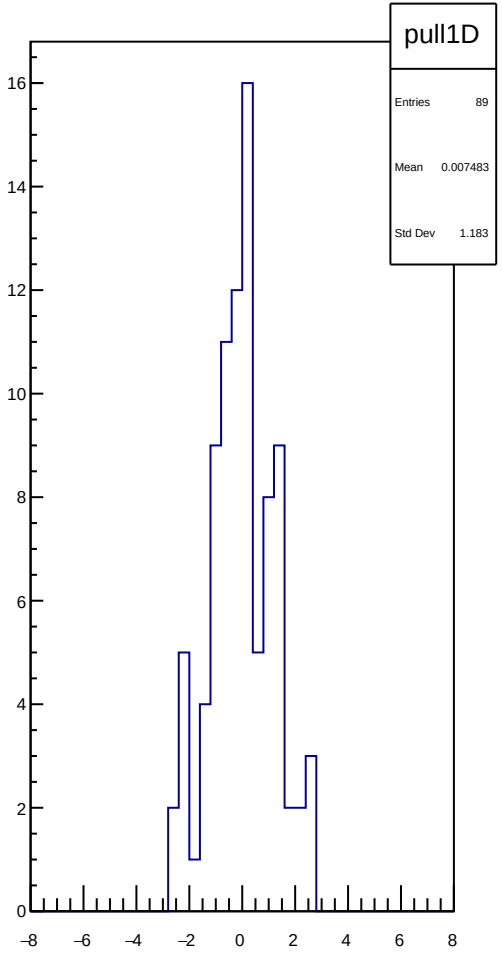

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 124.5 / 88
p0 0.323 ± 0.3592
pull
Entries 89
Mean −0.9525
Std Dev 63.14

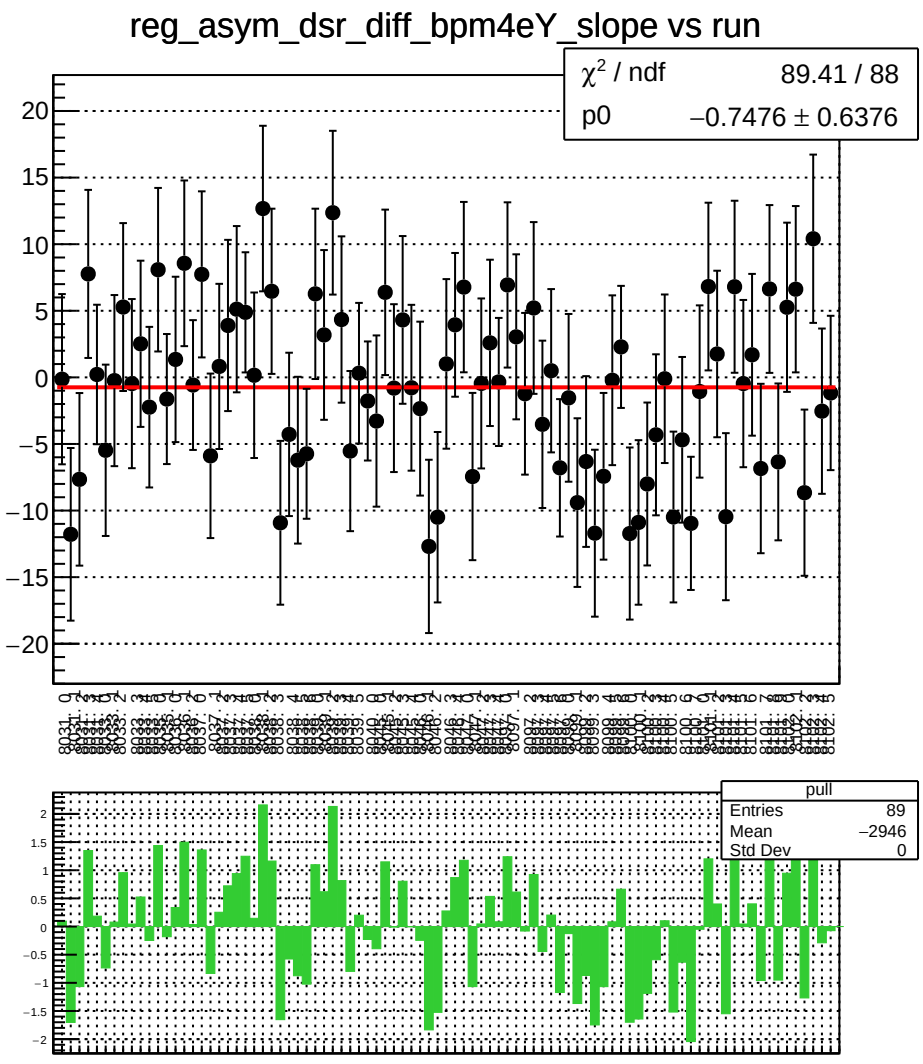

pull1D
Entries 89
Mean −0.01762
Std Dev 1.183

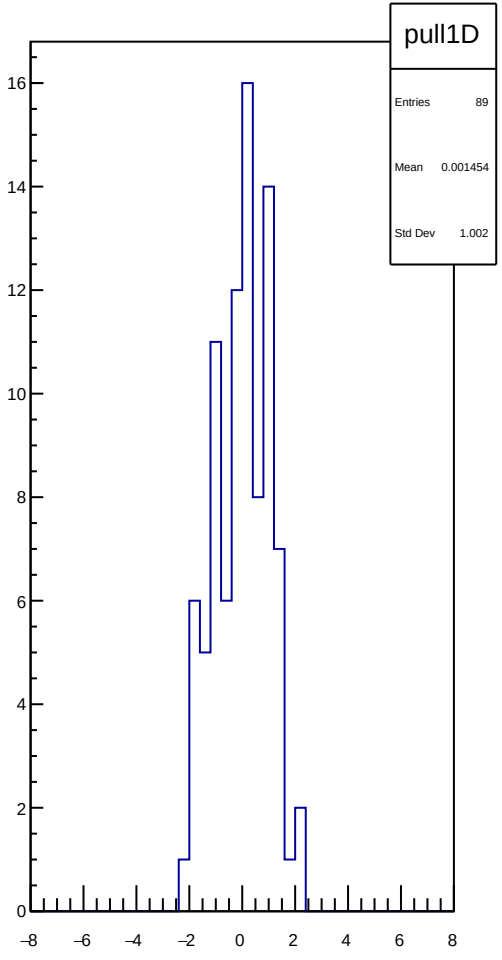

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 86.76 / 88
p0 0.6837 ± 0.6002
pull
Entries 89
Mean −2054
Std Dev 0

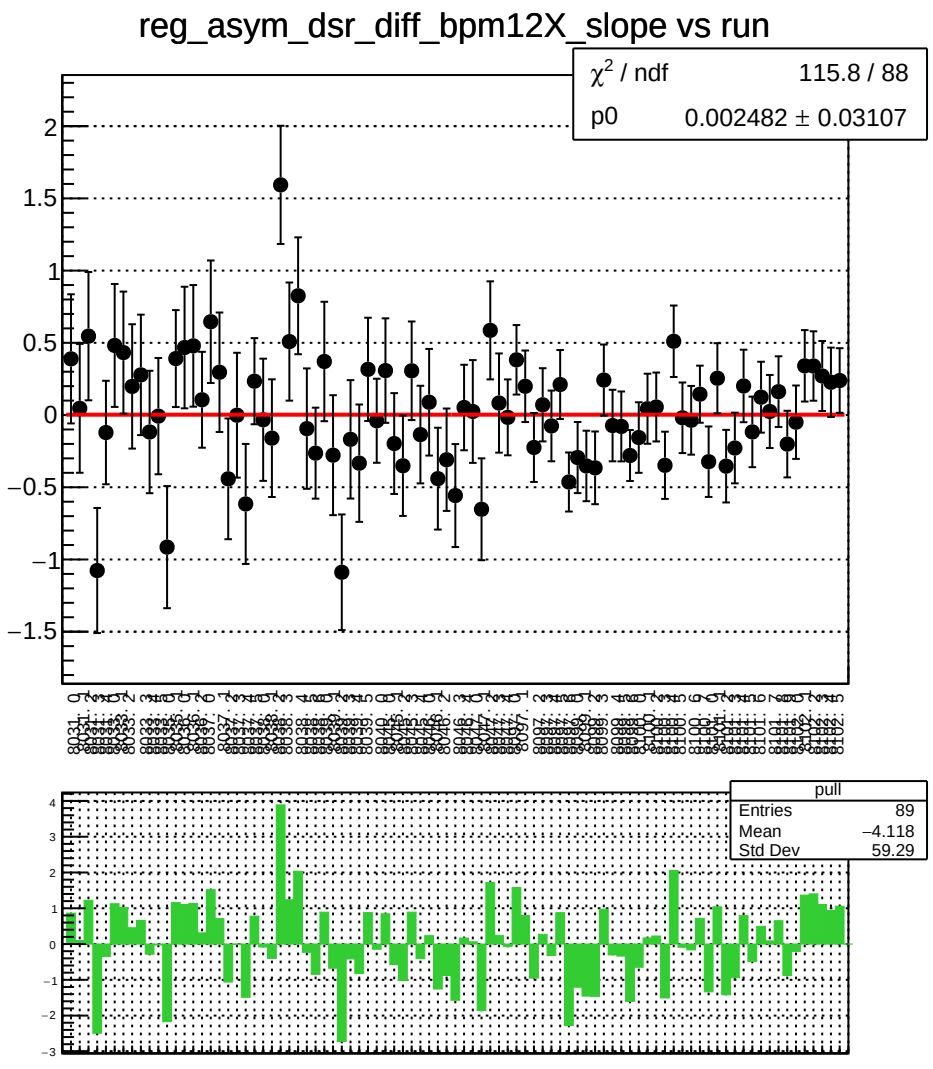

pull1D
Entries 89
Mean −0.001986
Std Dev 0.9873

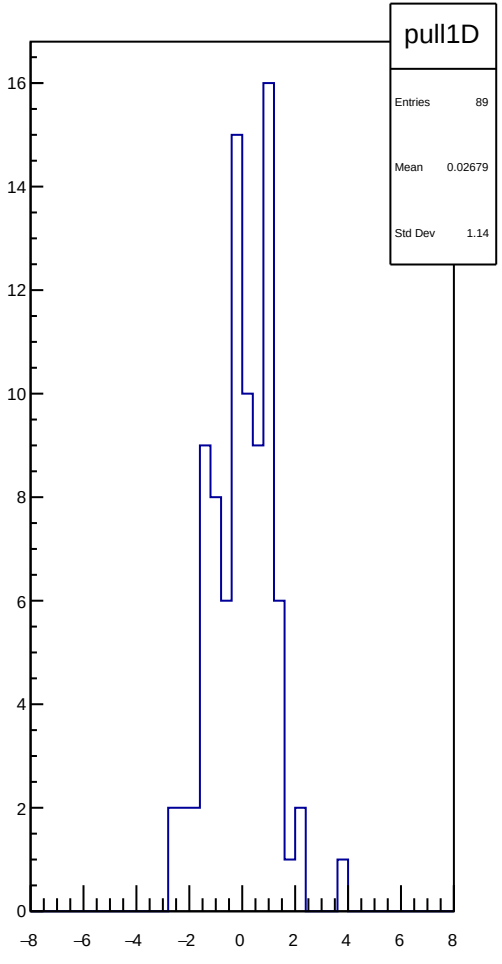

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 124.6 / 88
p0 −0.2841± 0.3823
pull
Entries 89
Mean −43.36
Std Dev 83.46

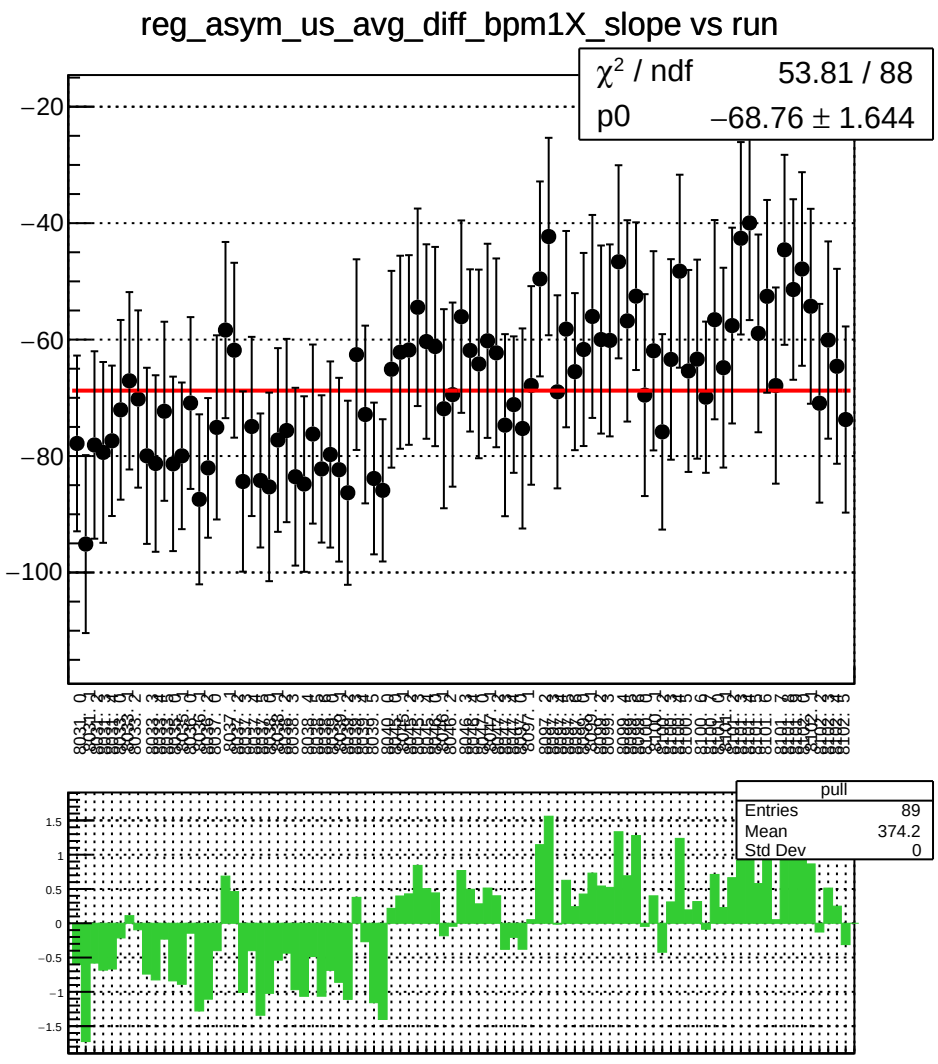

pull1D
Entries 89
Mean 0.007483
Std Dev 1.183

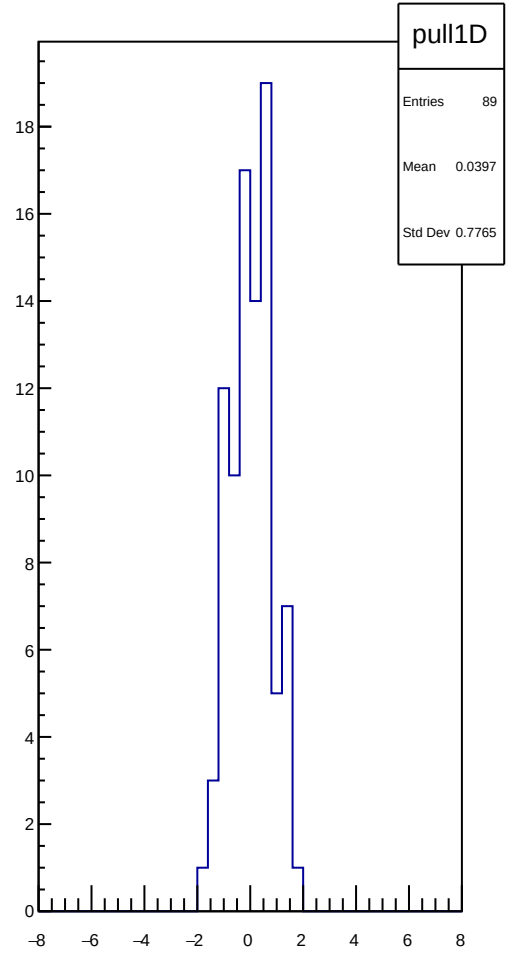

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 89.41 / 88
p0 −0.7476 ± 0.6376
pull
Entries 89
Mean −2946
Std Dev 0

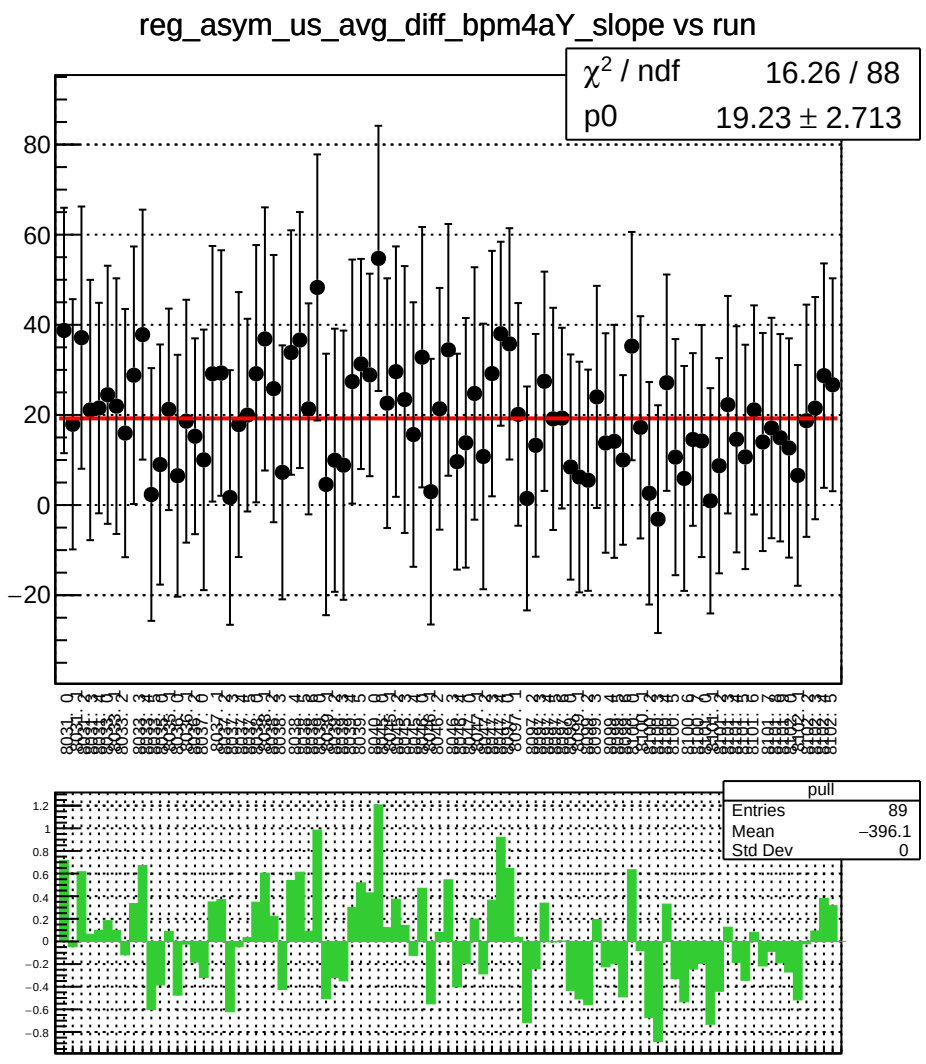

pull1D
Entries 89
Mean 0.001454
Std Dev 1.002

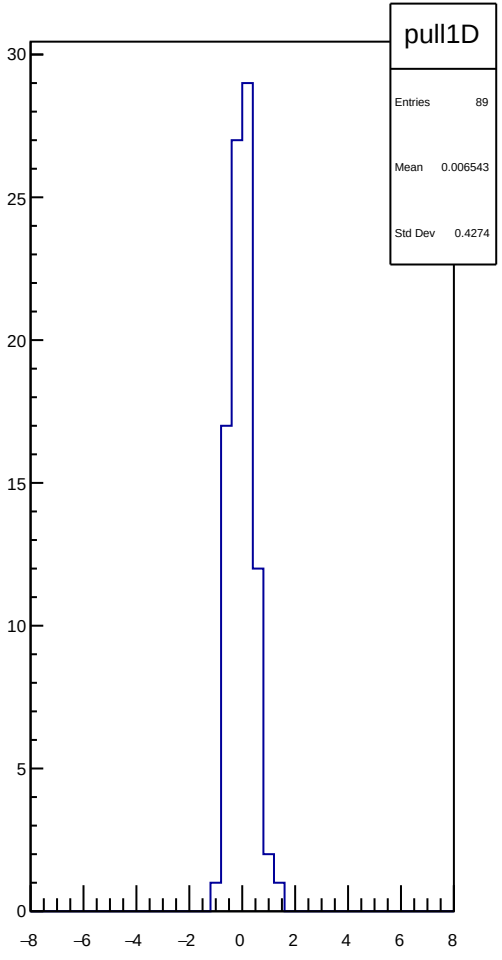

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 115.8 / 88
p0 0.002482 ± 0.03107
pull
Entries 89
Mean −4.118
Std Dev 59.29

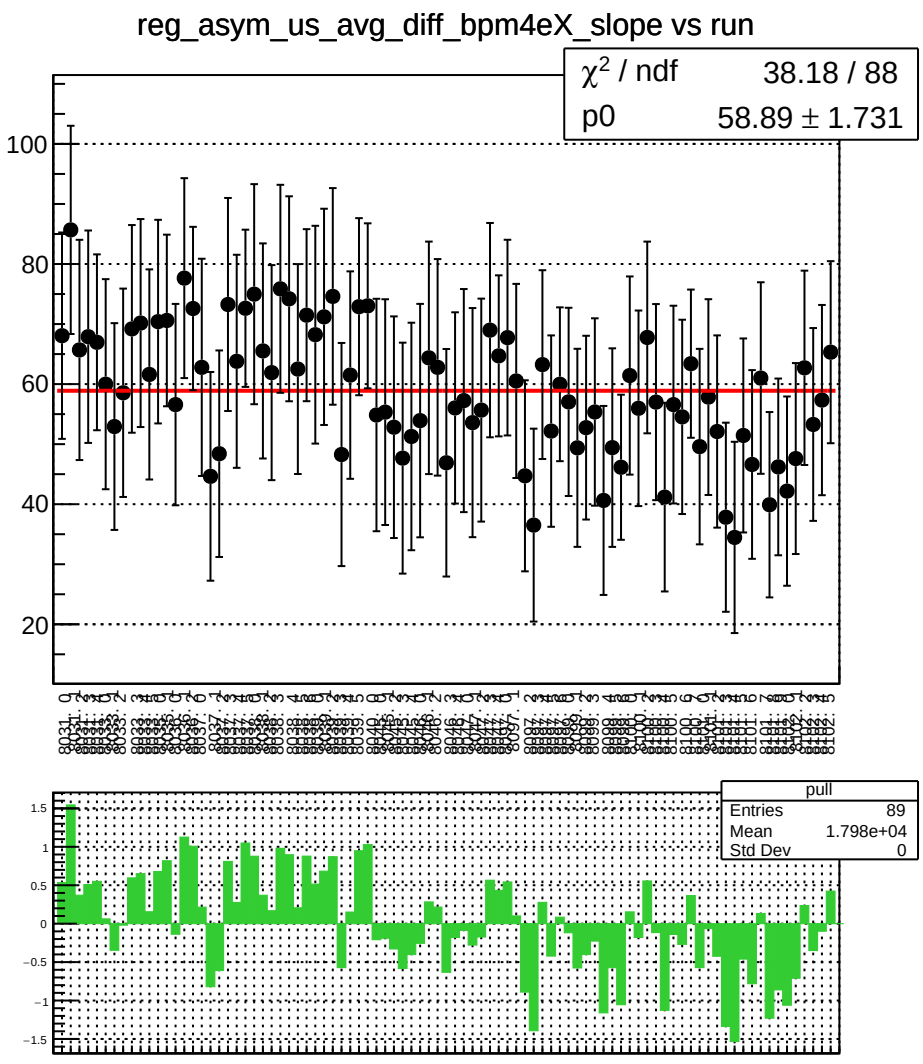

pull1D
Entries 89
Mean 0.02679
Std Dev 1.14

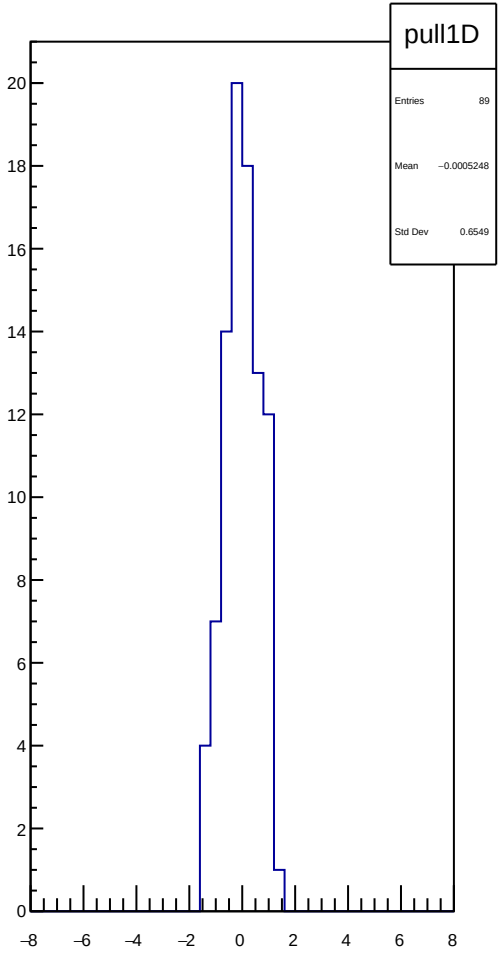

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 53.81 / 88
p0 −68.76 ± 1.644
−20
−40
−60
−80
−100
pull
Entries 89
Mean 374.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

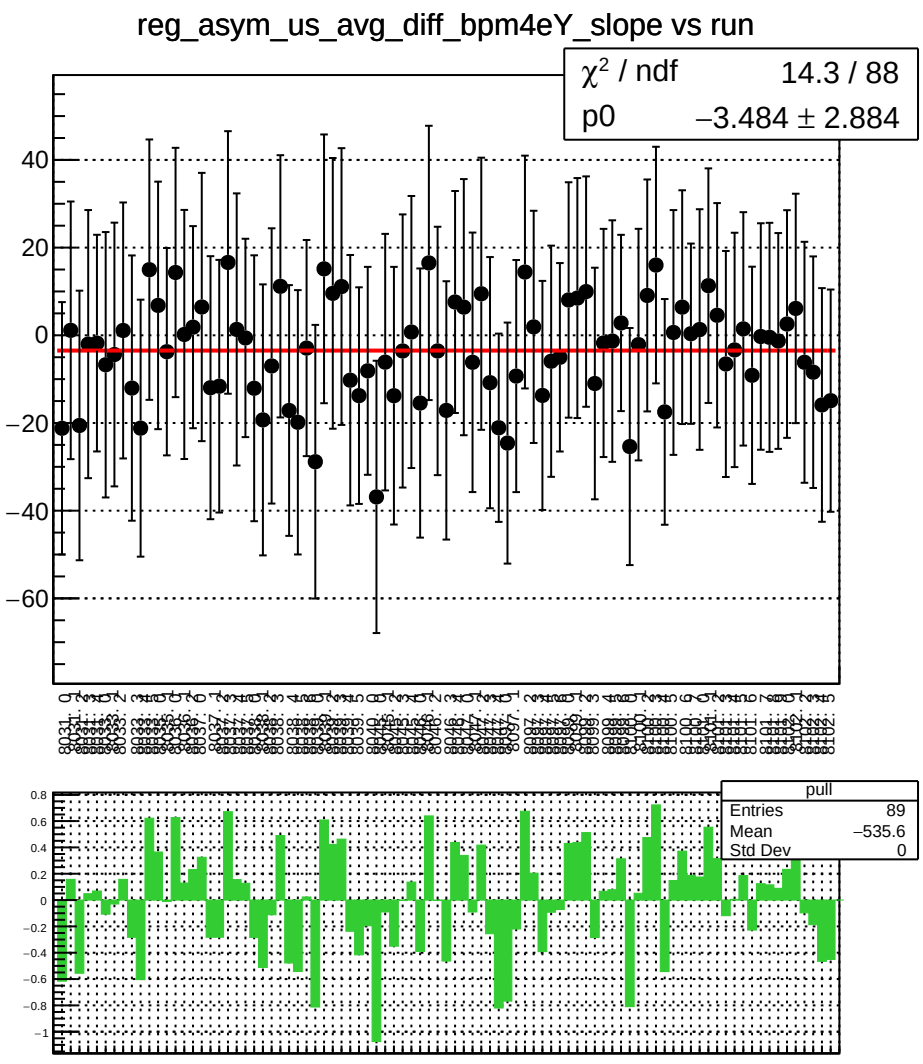

pull1D
Entries 89
Mean 0.0397
Std Dev 0.7765
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

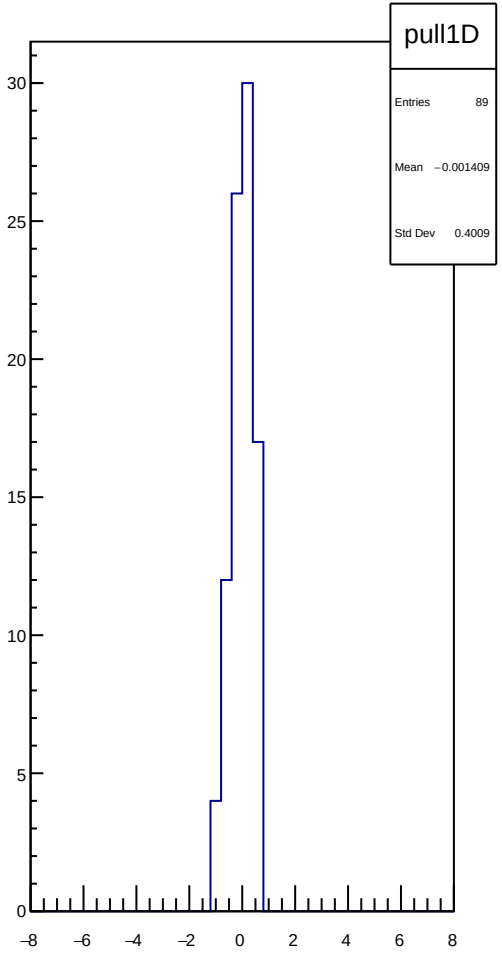

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 16.26 / 88
p0 19.23 ± 2.713
pull
Entries 89
Mean −396.1
Std Dev 0

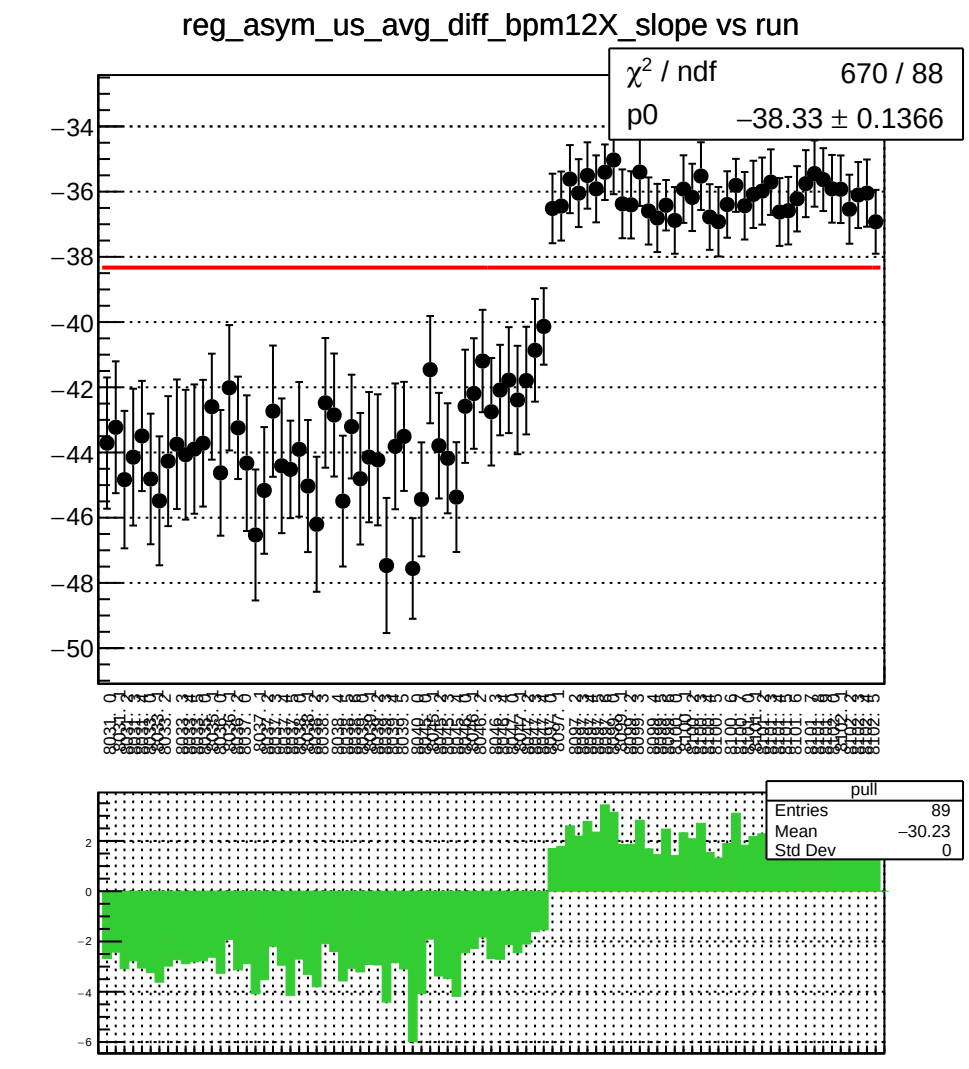

pull1D
Entries 89
Mean 0.006543
Std Dev 0.4274

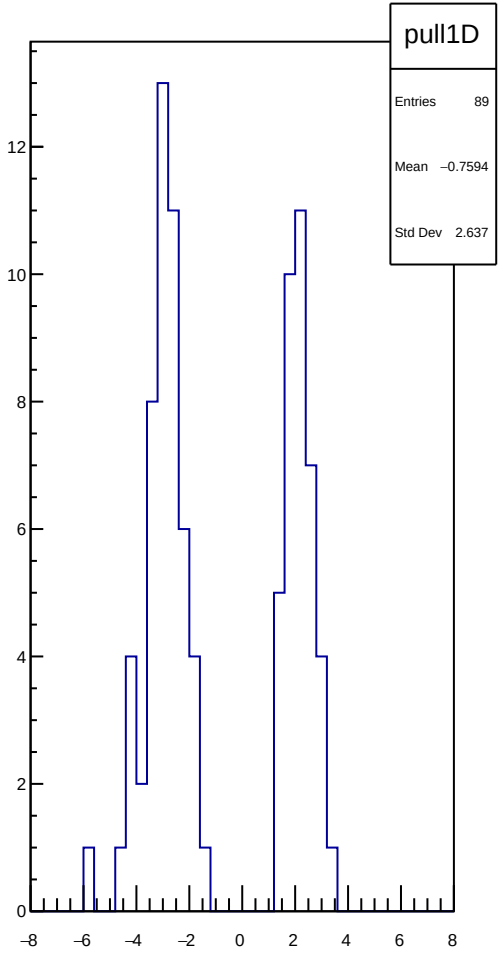

reg_asym_us_avg_diff_bpm4eX_slope vs run
$\chi^2$ / ndf 38.18 / 88
p0 58.89 ± 1.731
pull
Entries 89
Mean 1.798e+04
Std Dev 0

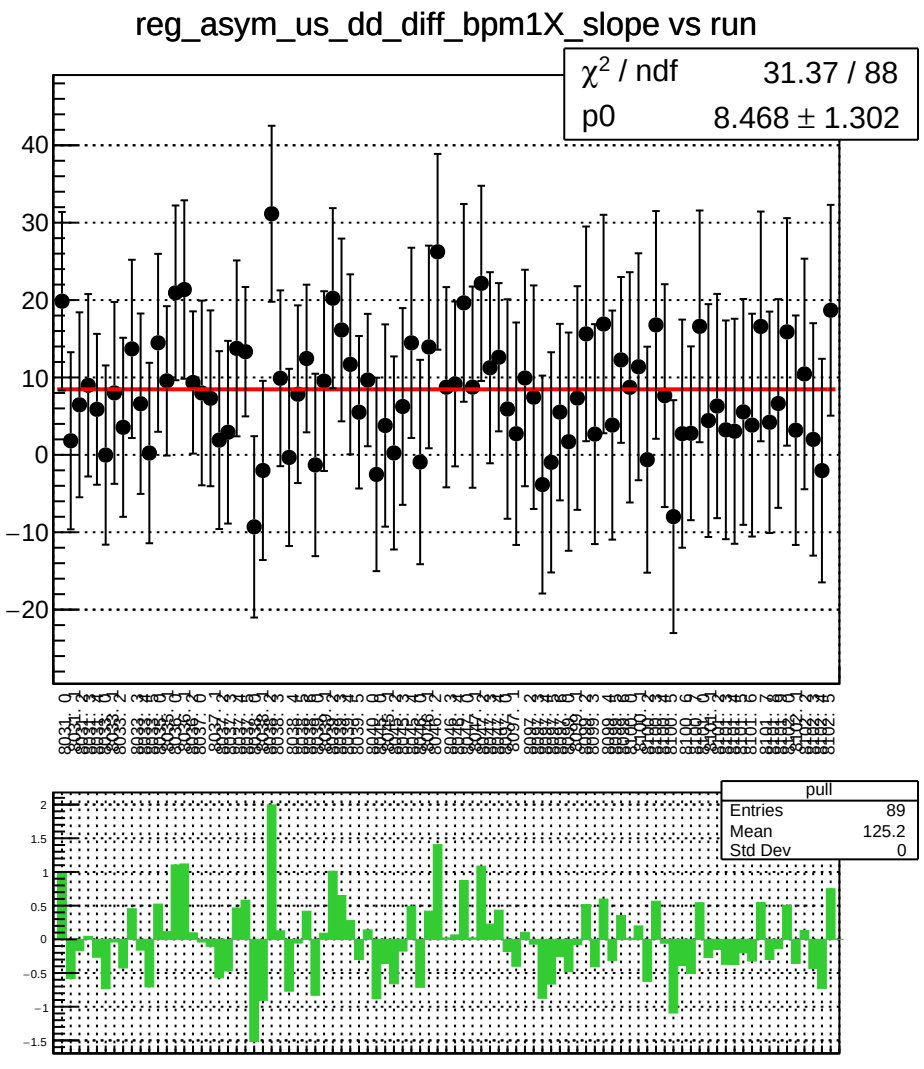

pull1D
Entries 89
Mean −0.0005248
Std Dev 0.6549

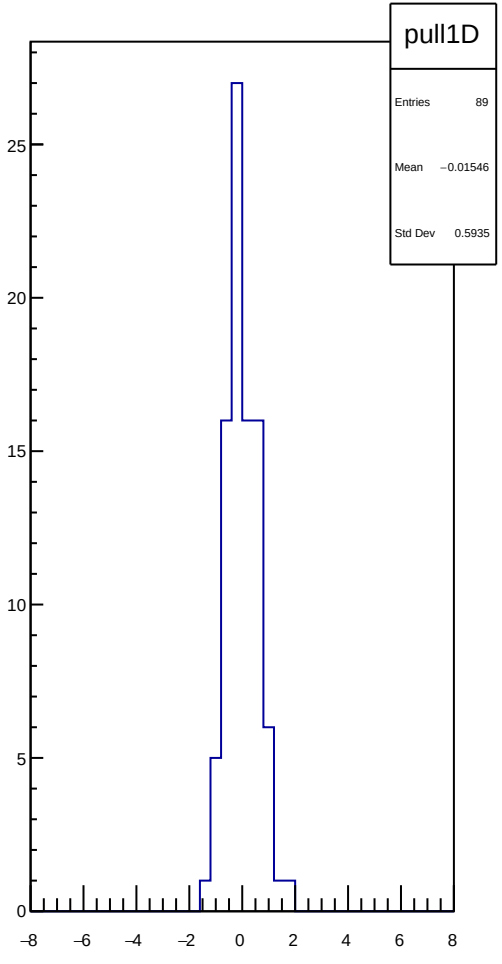

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.3 / 88
p0 −3.484 ± 2.884
pull
Entries 89
Mean −535.6
Std Dev 0

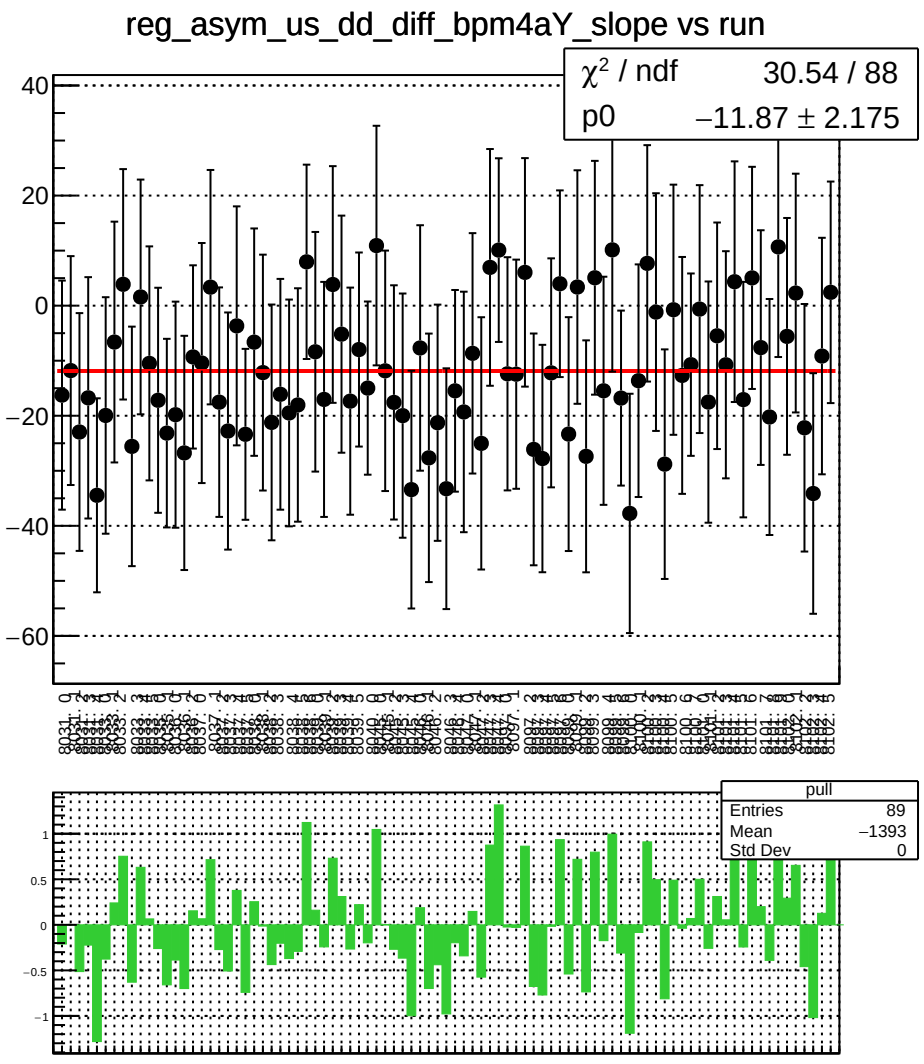

pull1D
Entries 89
Mean −0.001409
Std Dev 0.4009

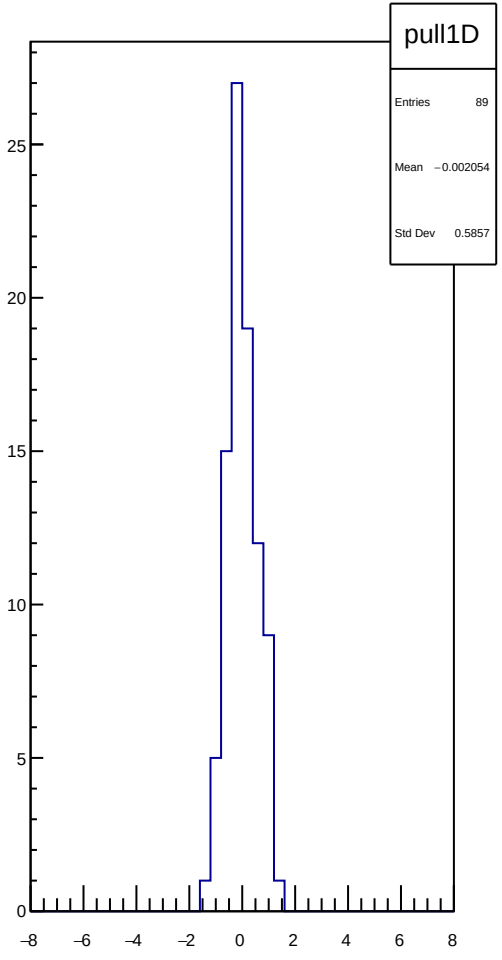

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 670 / 88
p0 −38.33 ± 0.1366
pull
Entries 89
Mean −30.23
Std Dev 0

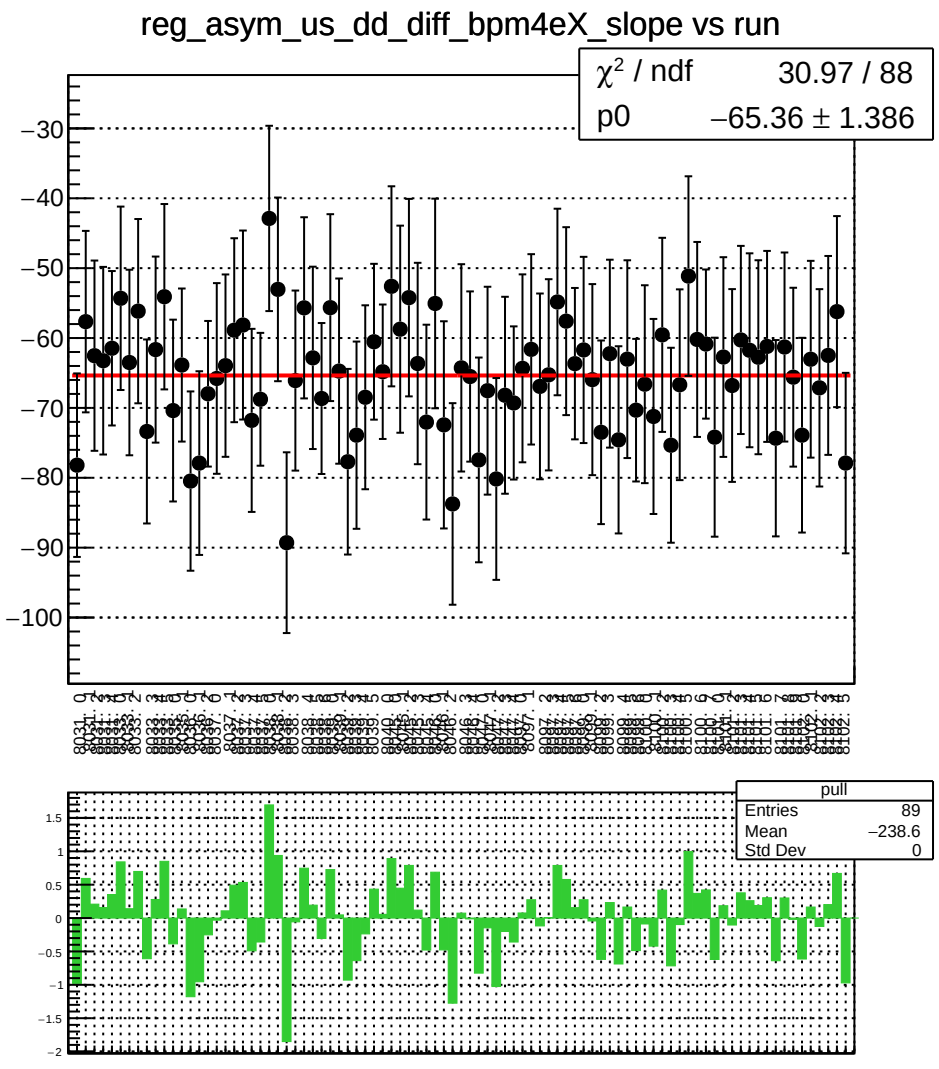

pull1D
Entries 89
Mean −0.7594
Std Dev 2.637

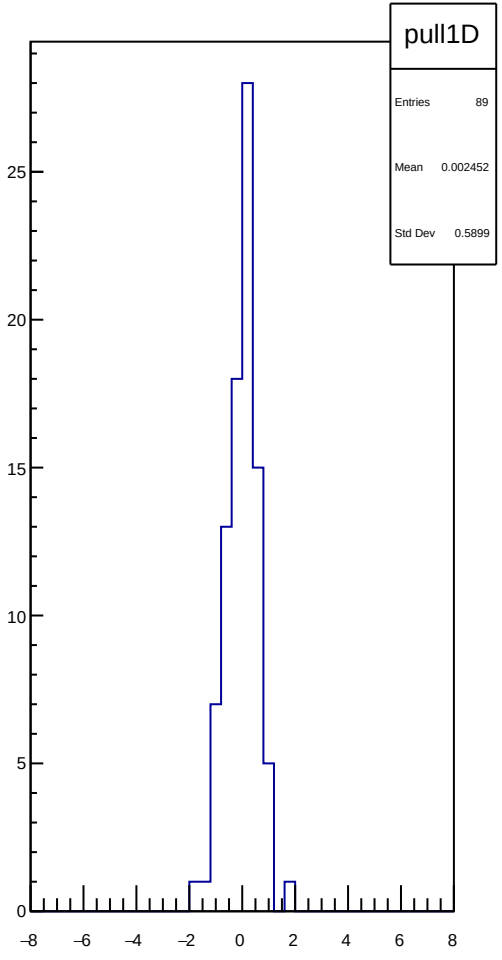

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 31.37 / 88
p0 8.468 ± 1.302
pull
Entries 89
Mean 125.2
Std Dev 0

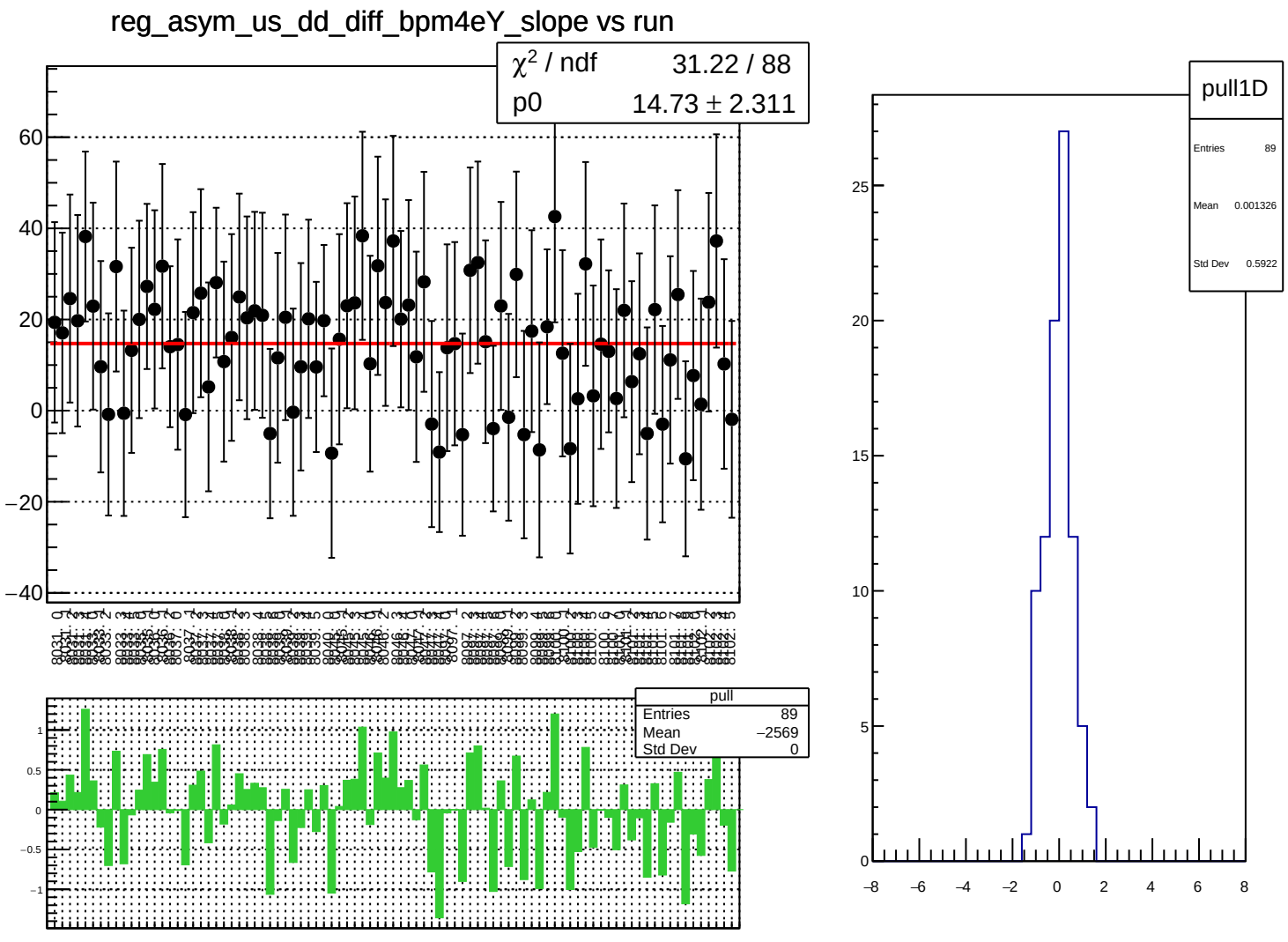

pull1D
Entries 89
Mean −0.01546
Std Dev 0.5935

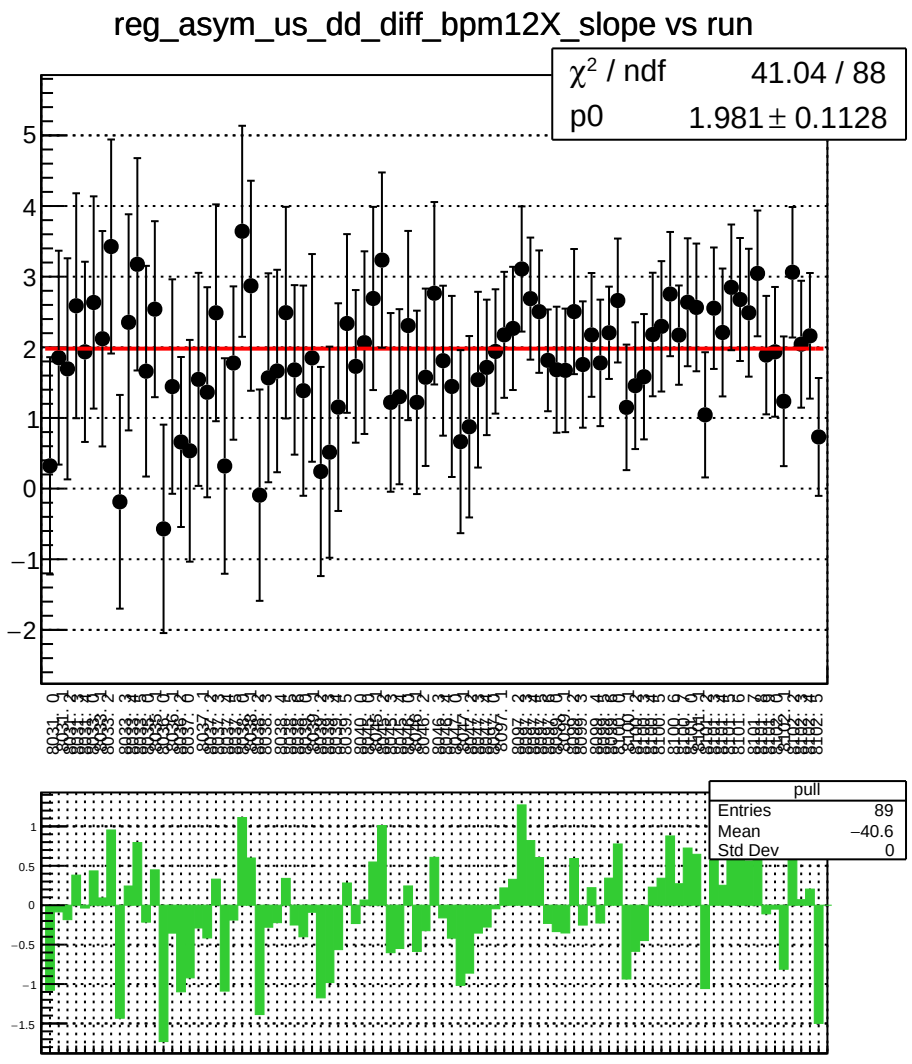

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 30.54 / 88
p0 −11.87 ± 2.175
pull
Entries 89
Mean −1393
Std Dev 0

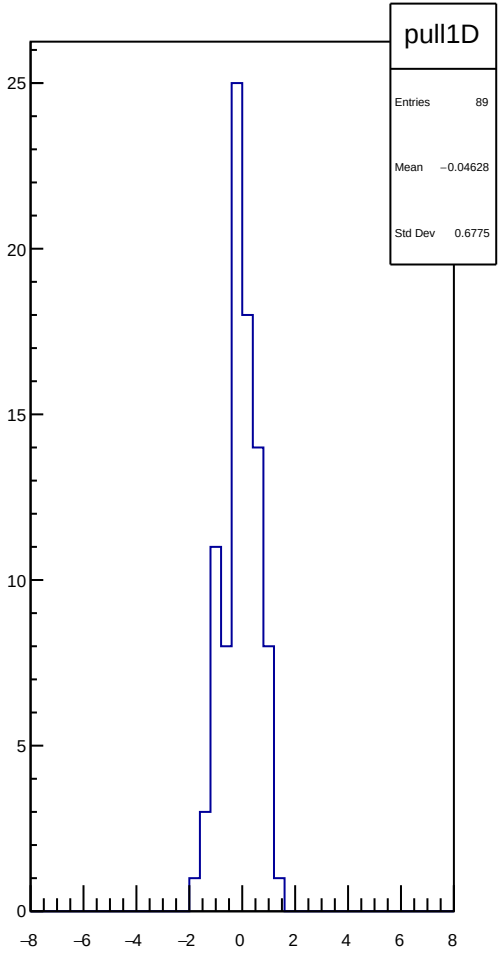

pull1D
Entries 89
Mean −0.002054
Std Dev 0.5857

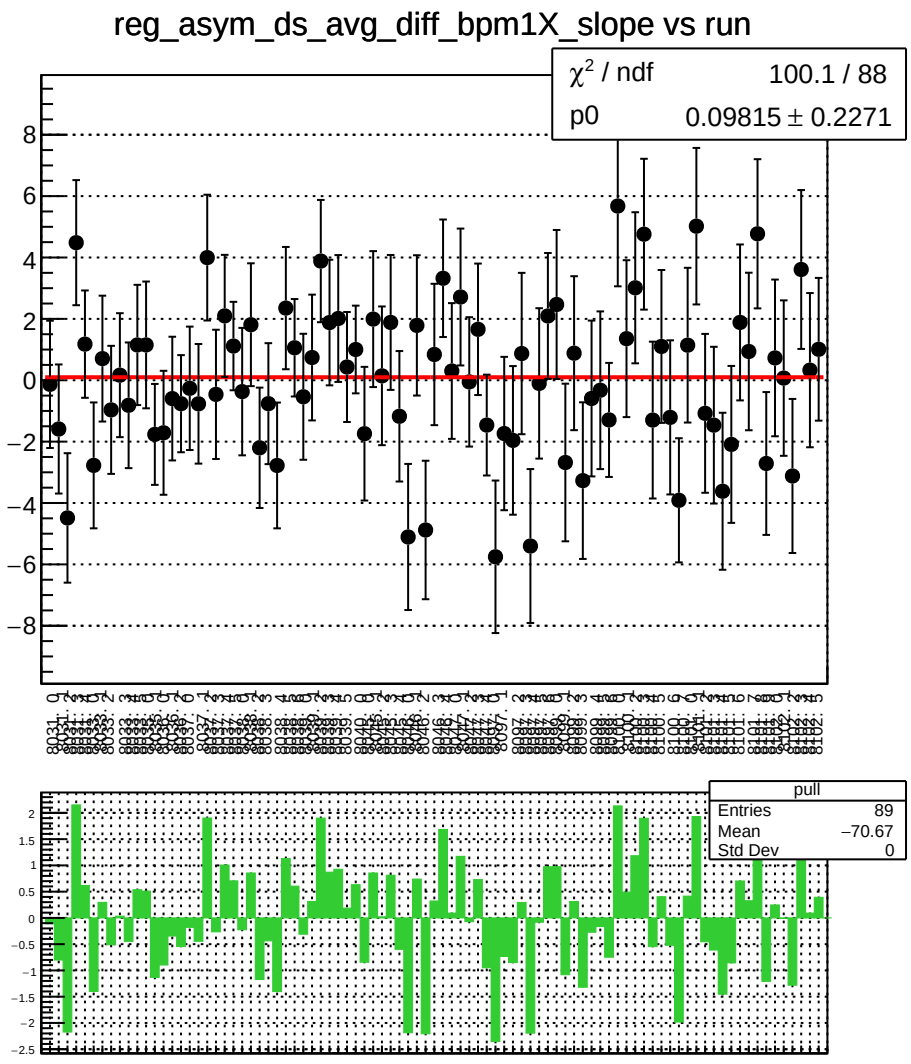

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 30.97 / 88
p0 −65.36 ± 1.386
pull
Entries 89
Mean −238.6
Std Dev 0

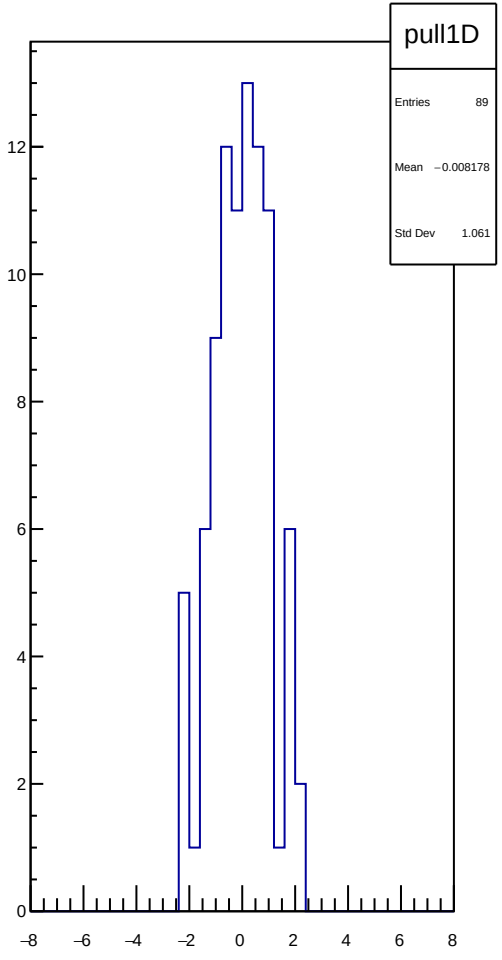

pull1D
Entries 89
Mean 0.002452
Std Dev 0.5899

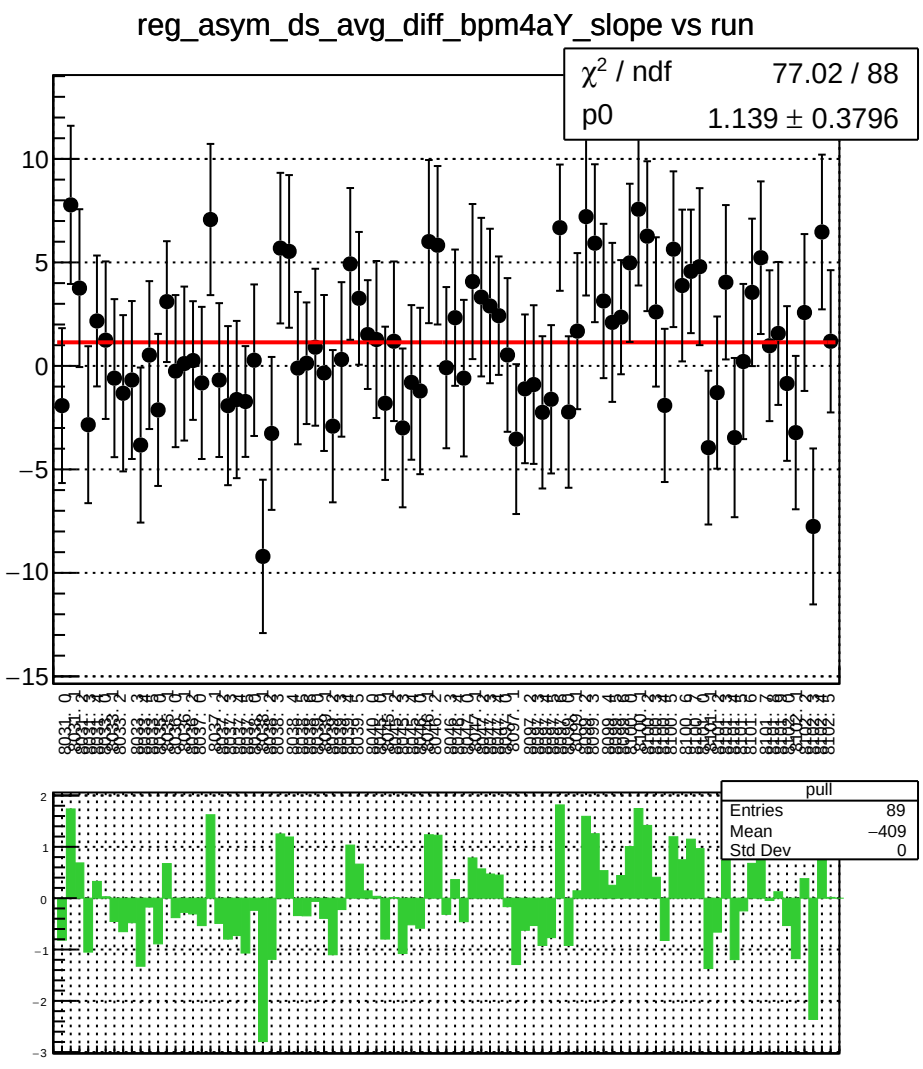

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 31.22 / 88
p0 14.73 ± 2.311
60
40
20
0
−20
−40
pull
Entries 89
Mean −2569
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean 0.001326
Std Dev 0.5922
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

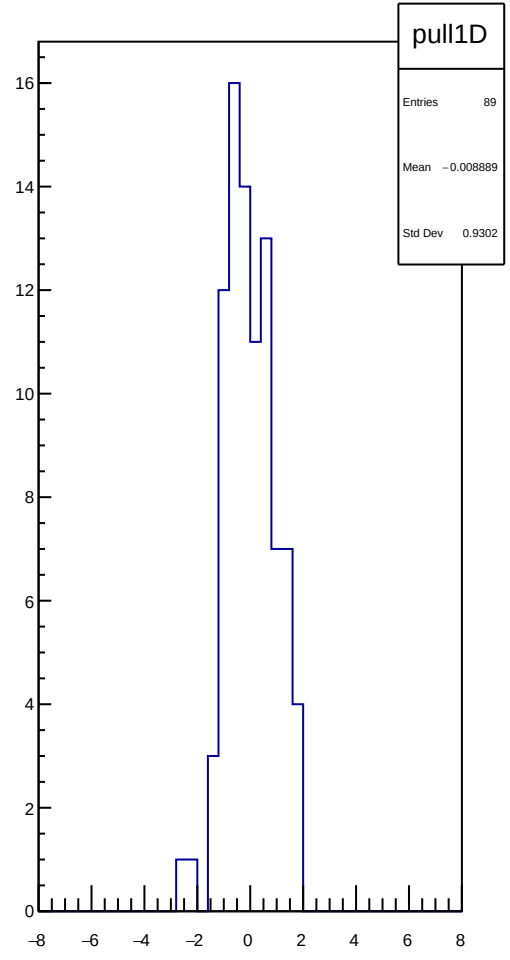

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 41.04 / 88
p0 1.981 ± 0.1128
pull
Entries 89
Mean −40.6
Std Dev 0

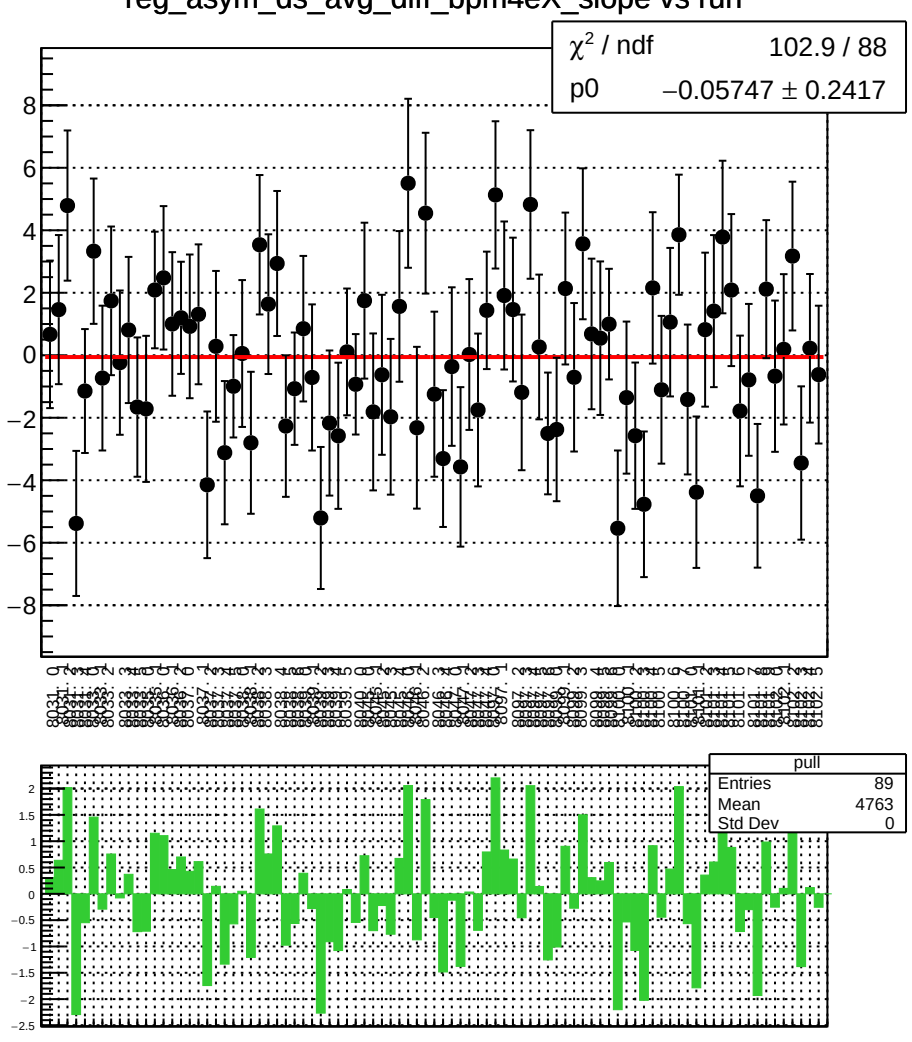

pull1D
Entries 89
Mean −0.04628
Std Dev 0.6775

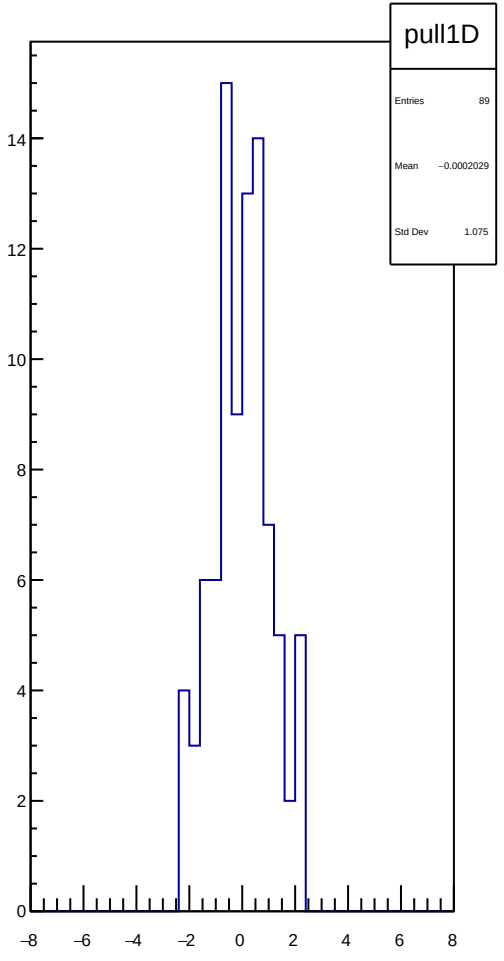

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 100.1 / 88
p0 0.09815 ± 0.2271
pull
Entries 89
Mean −70.67
Std Dev 0

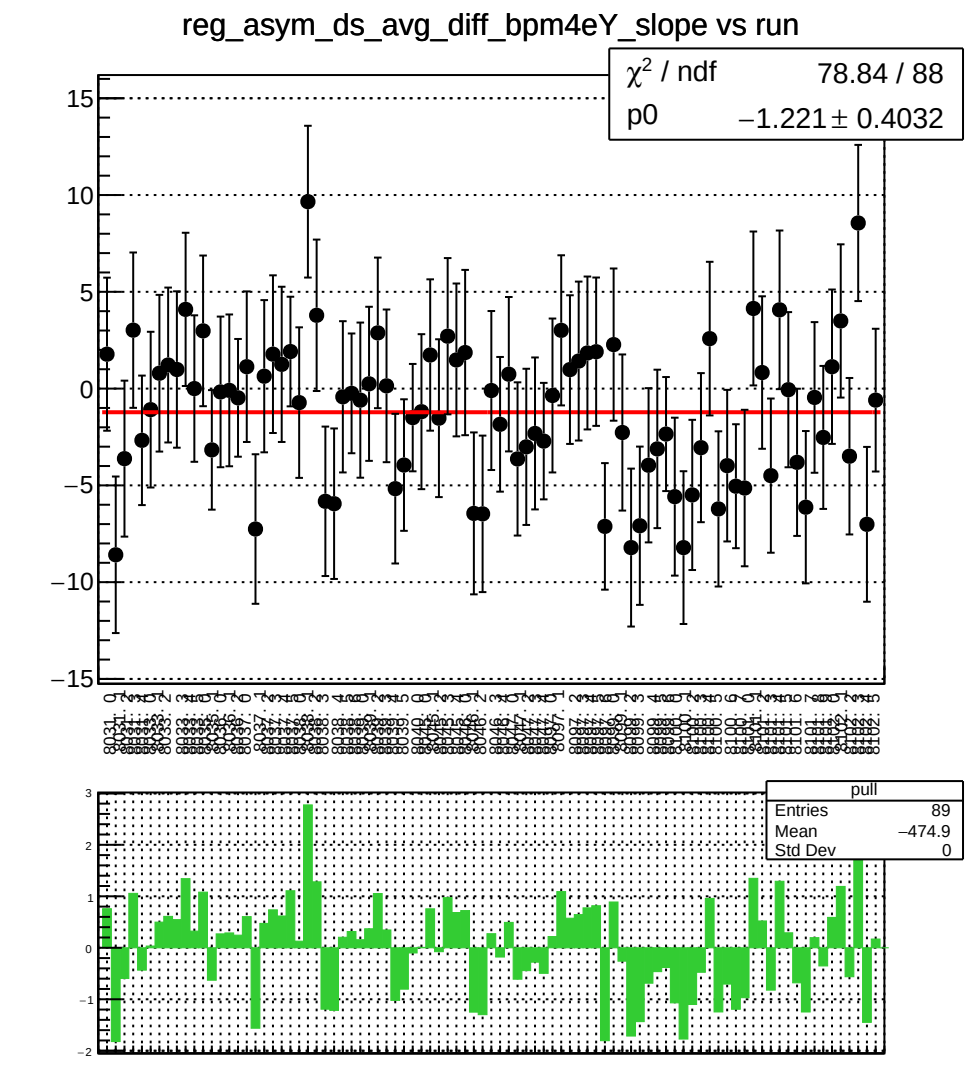

pull1D
Entries 89
Mean −0.008178
Std Dev 1.061

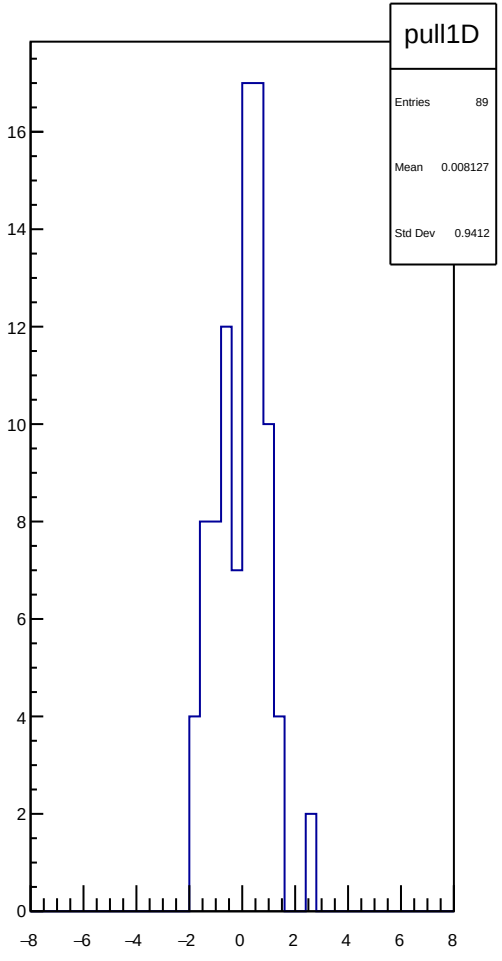

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 77.02 / 88
p0 1.139 ± 0.3796
pull
Entries 89
Mean −409
Std Dev 0

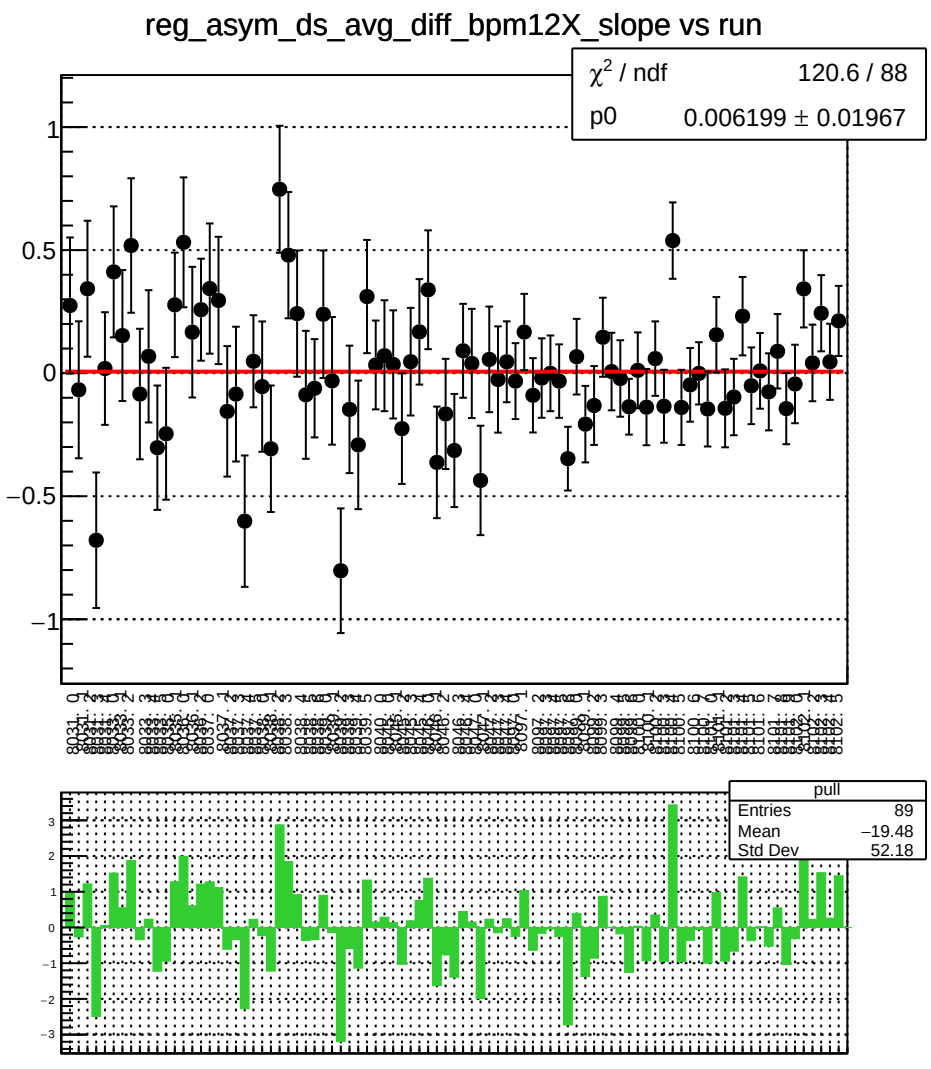

pull1D
Entries 89
Mean −0.008889
Std Dev 0.9302

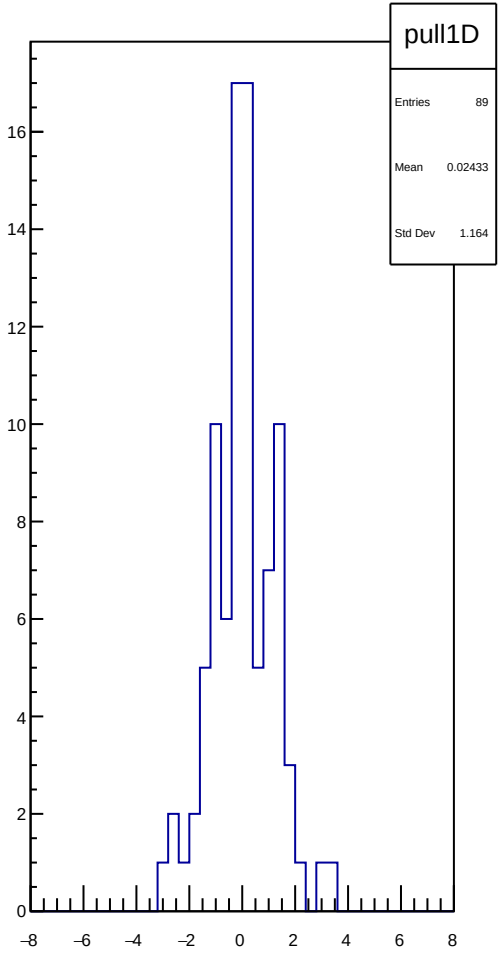

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 102.9 / 88
p0 −0.05747 ± 0.2417
pull
Entries 89
Mean 4763
Std Dev 0

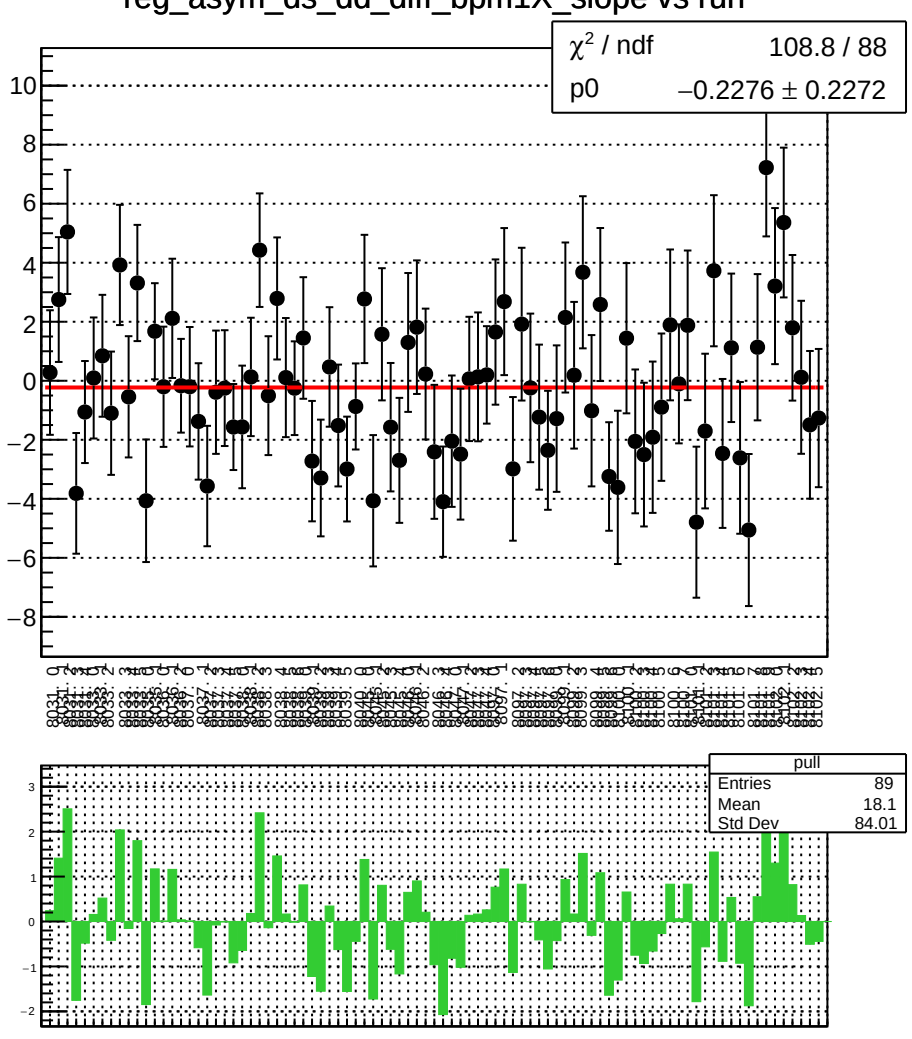

pull1D
Entries 89
Mean −0.0002029
Std Dev 1.075

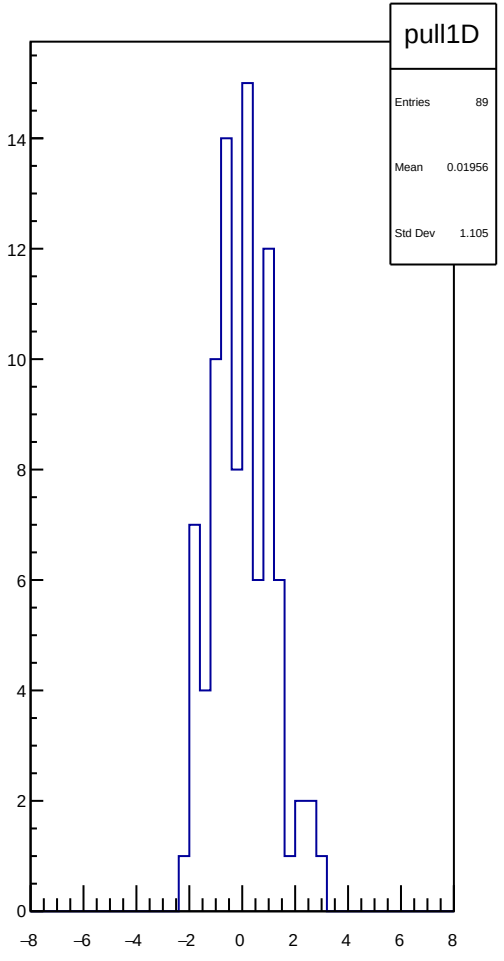

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 78.84 / 88
p0 −1.221 ± 0.4032
pull
Entries 89
Mean −474.9
Std Dev 0

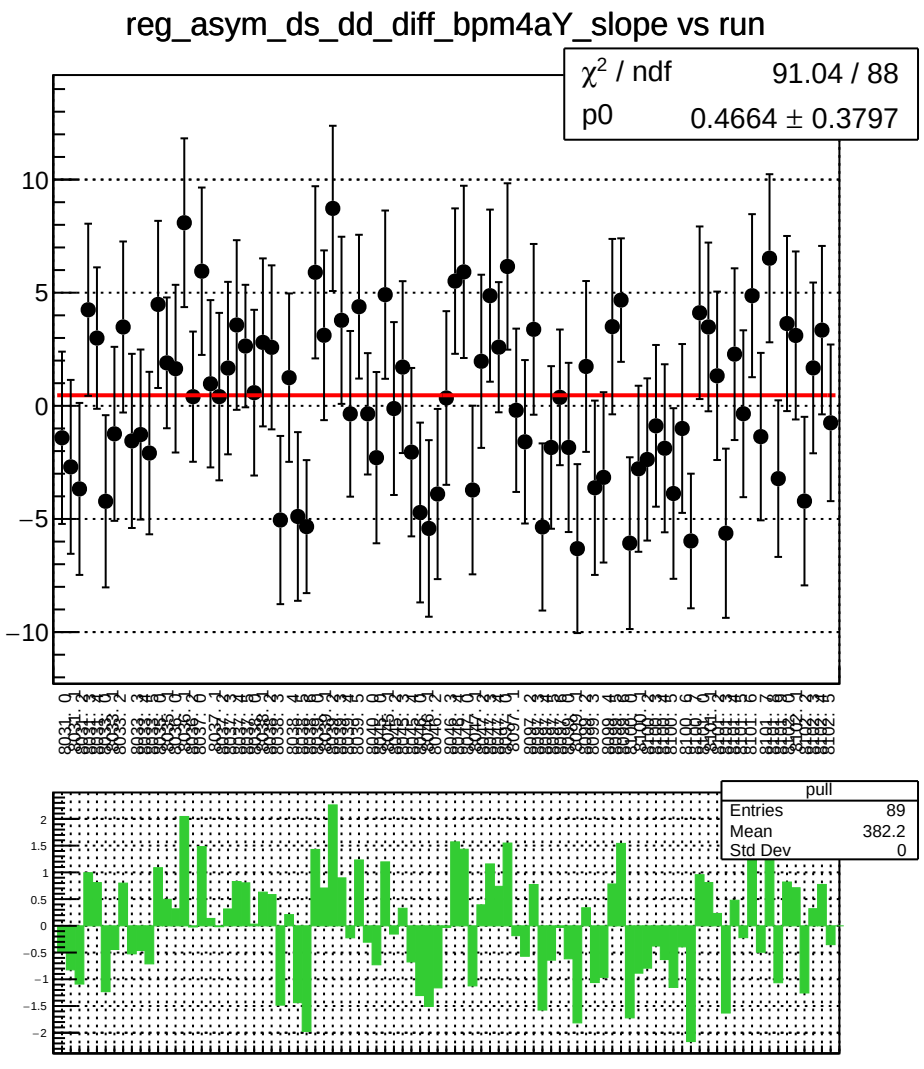

pull1D
Entries 89
Mean 0.008127
Std Dev 0.9412

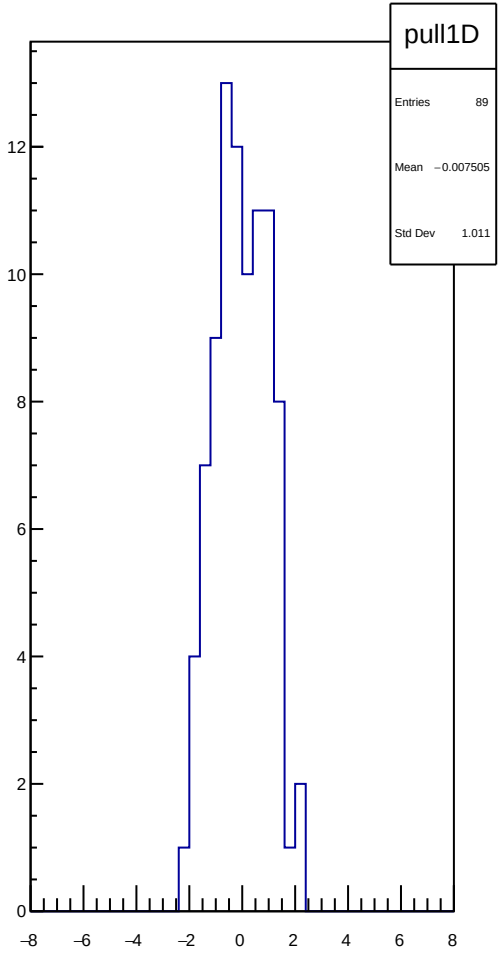

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 120.6 / 88
p0 0.006199 ± 0.01967
pull
Entries 89
Mean −19.48
Std Dev 52.18

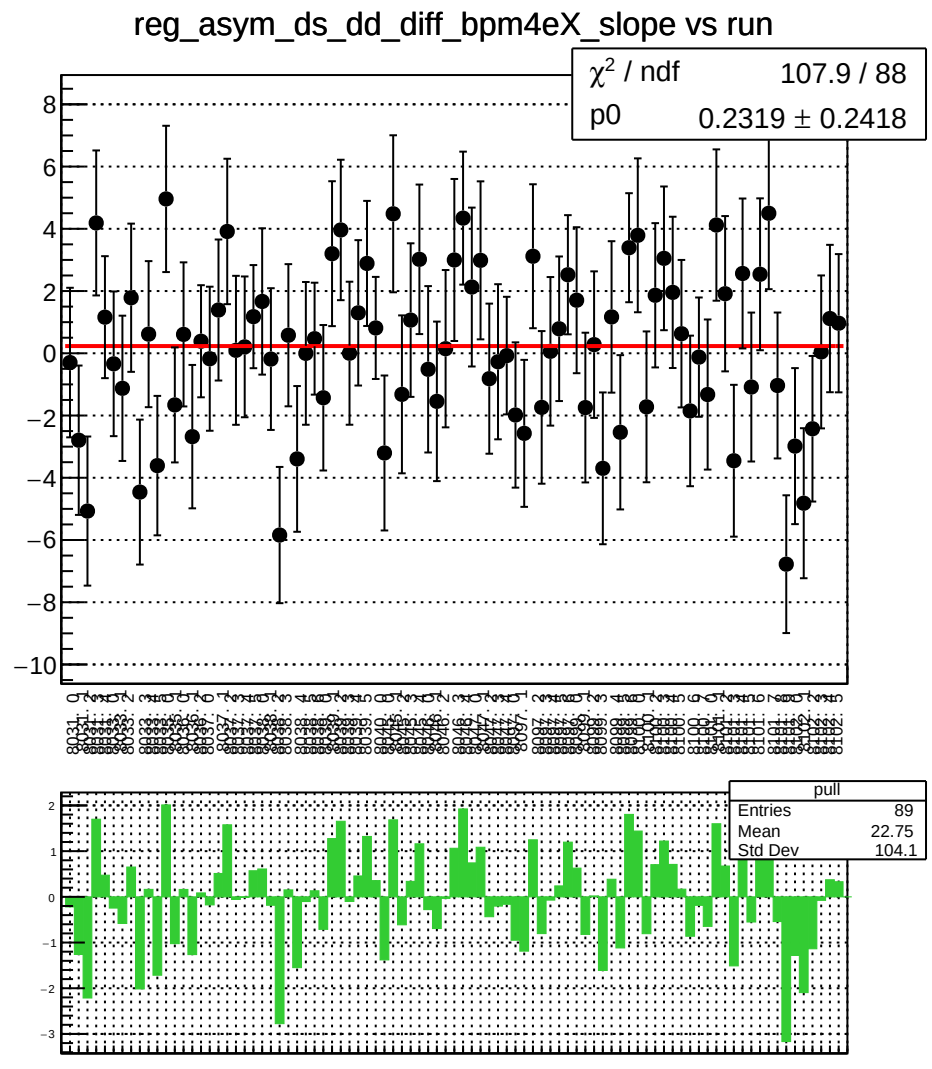

pull1D
Entries 89
Mean 0.02433
Std Dev 1.164

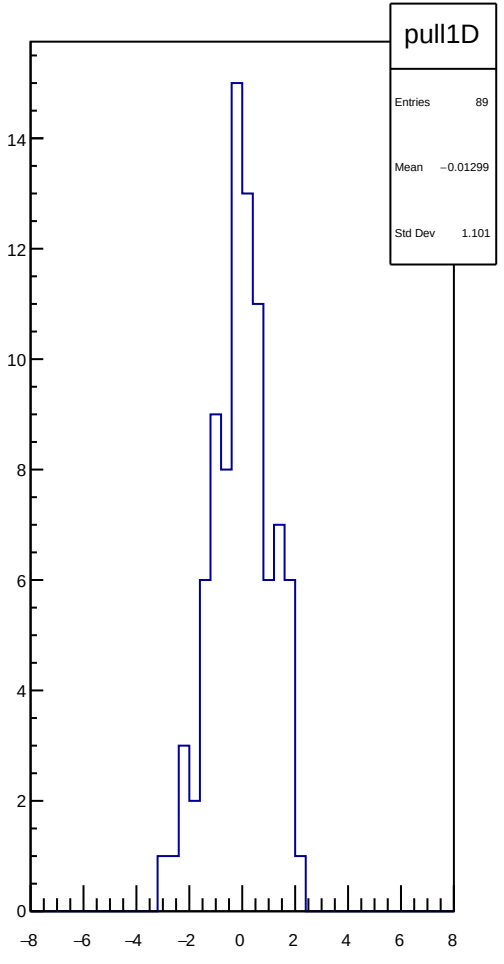

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 108.8 / 88
p0 −0.2276 ± 0.2272
pull
Entries 89
Mean 18.1
Std Dev 84.01

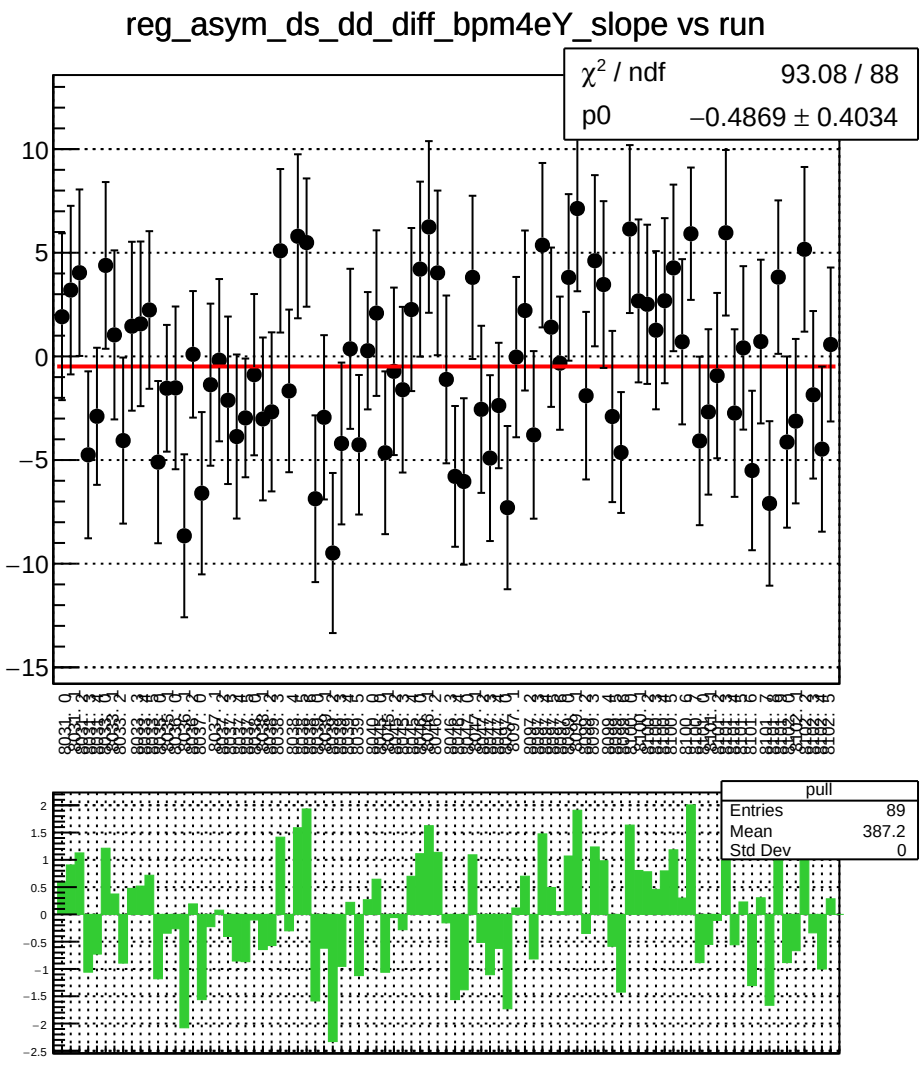

pull1D
Entries 89
Mean 0.01956
Std Dev 1.105

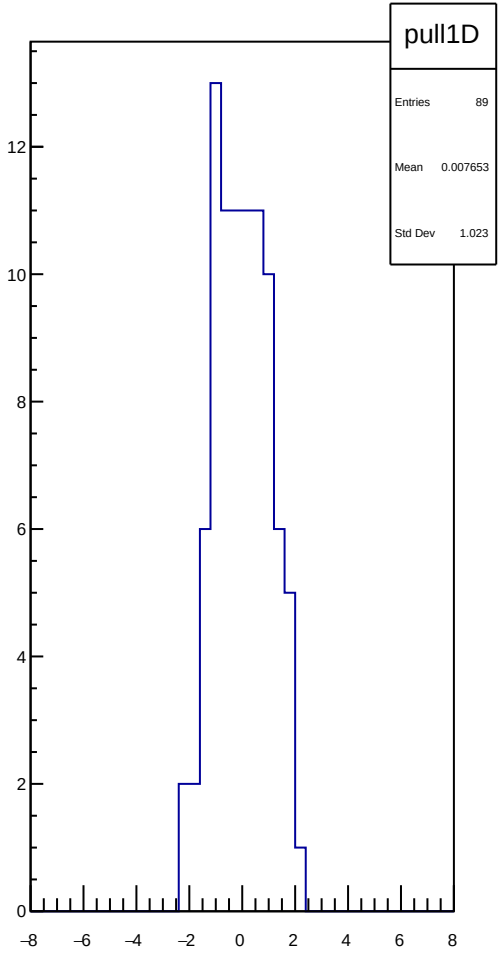

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 91.04 / 88
p0 0.4664 ± 0.3797
pull
Entries 89
Mean 382.2
Std Dev 0

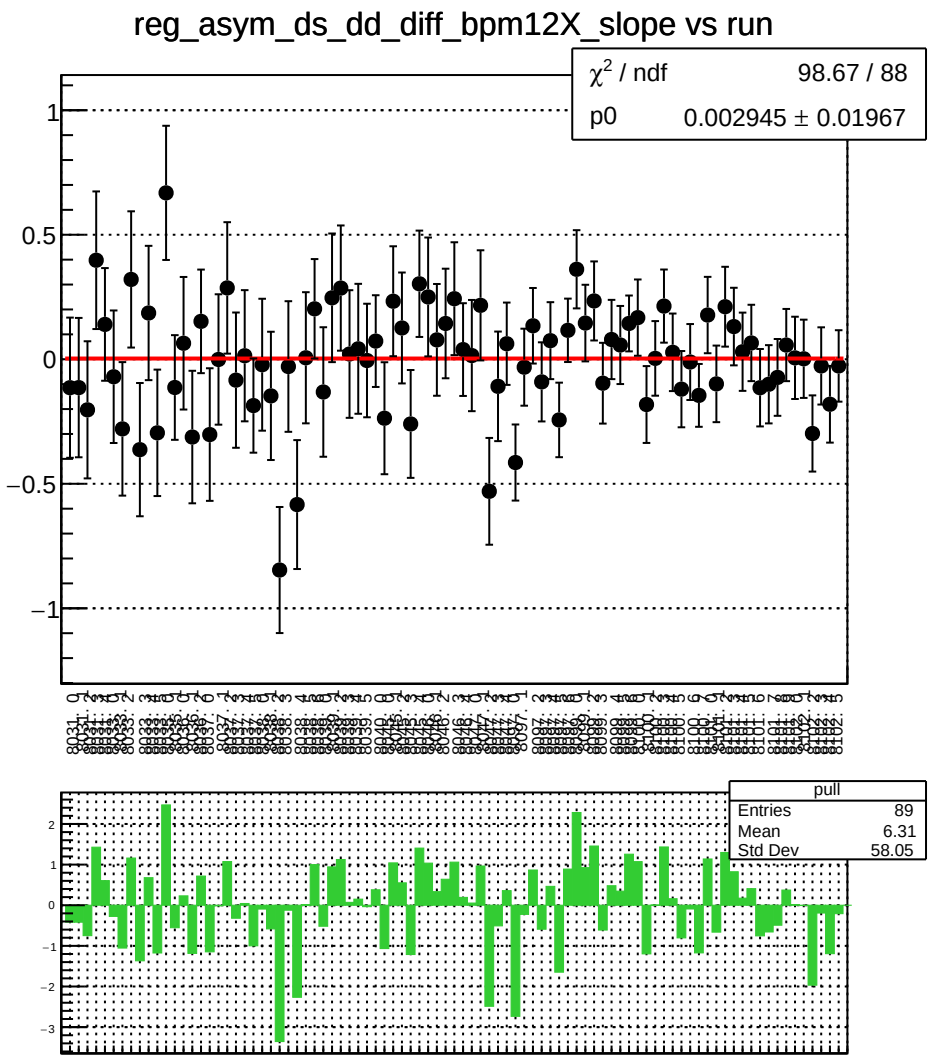

pull1D
Entries 89
Mean −0.007505
Std Dev 1.011

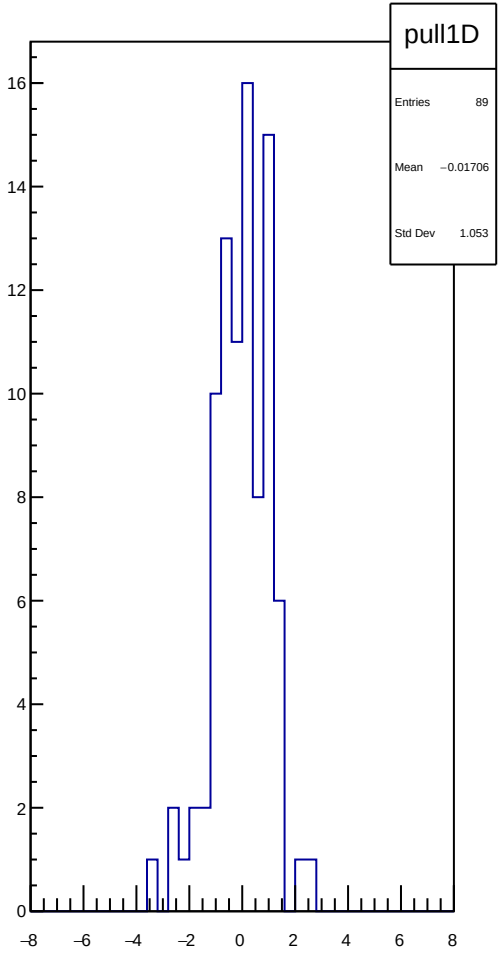

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 107.9 / 88
p0 0.2319 ± 0.2418
pull
Entries 89
Mean 22.75
Std Dev 104.1

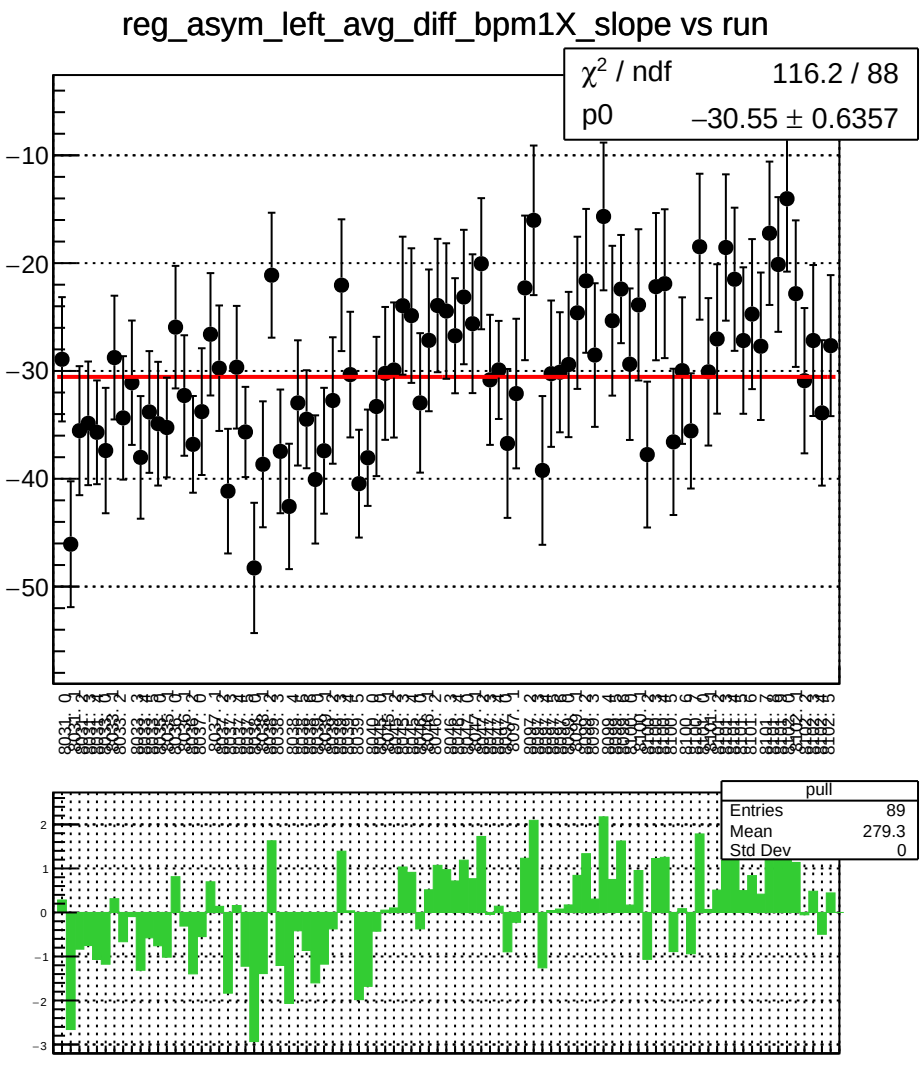

pull1D
Entries 89
Mean −0.01299
Std Dev 1.101

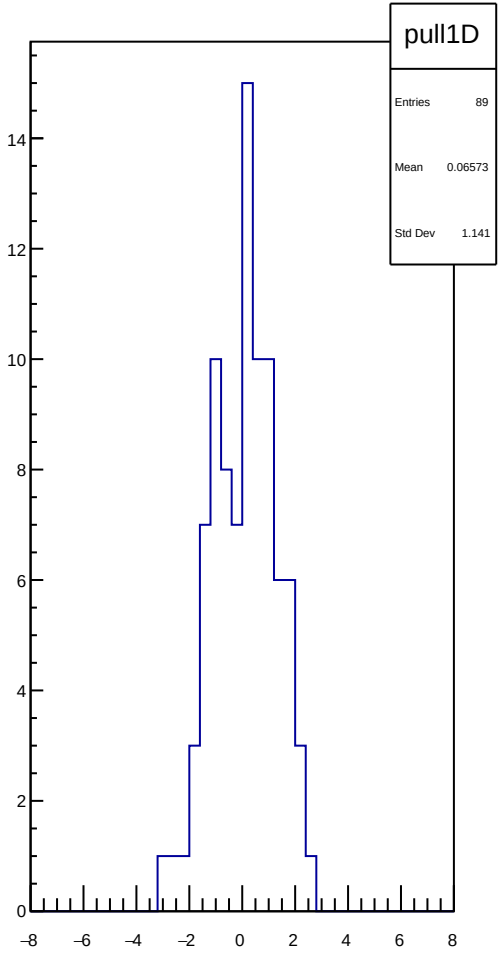

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 93.08 / 88
p0 −0.4869 ± 0.4034
pull
Entries 89
Mean 387.2
Std Dev 0

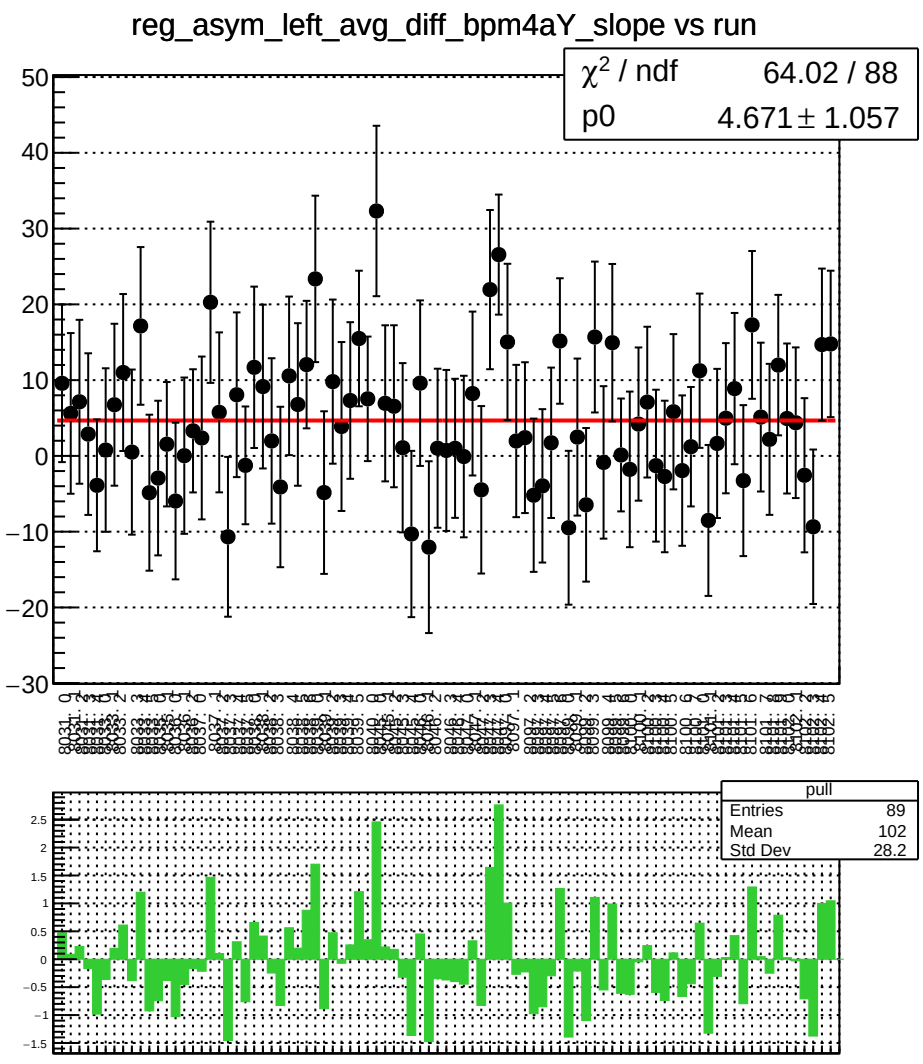

pull1D
Entries 89
Mean 0.007653
Std Dev 1.023

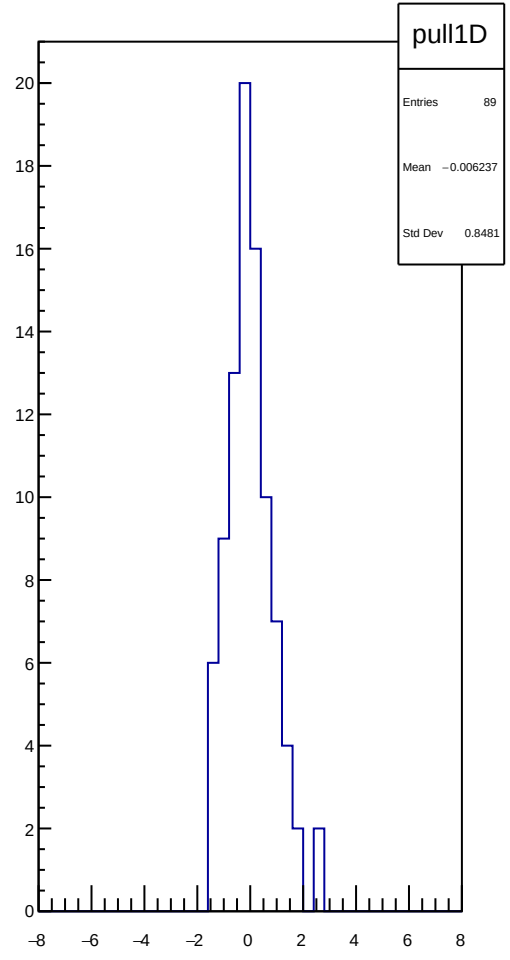

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 98.67 / 88
p0 0.002945 ± 0.01967
pull
Entries 89
Mean 6.31
Std Dev 58.05

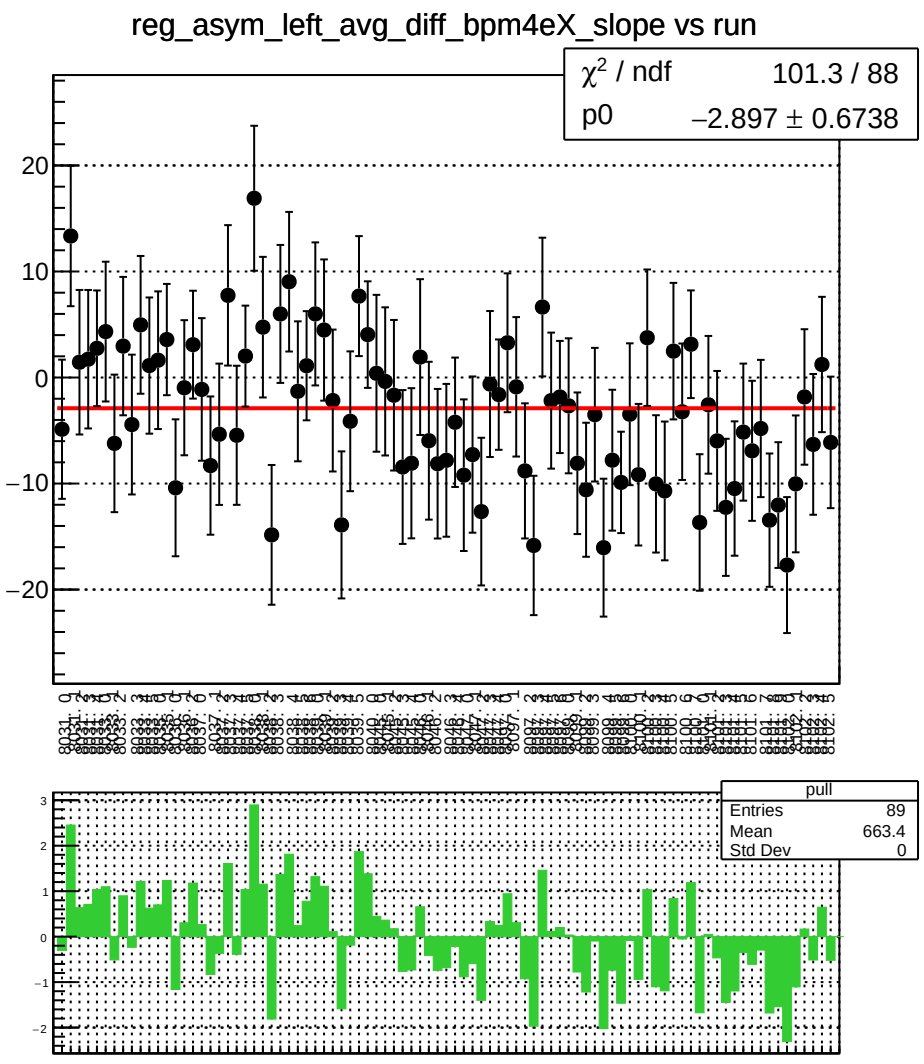

pull1D
Entries 89
Mean −0.01706
Std Dev 1.053

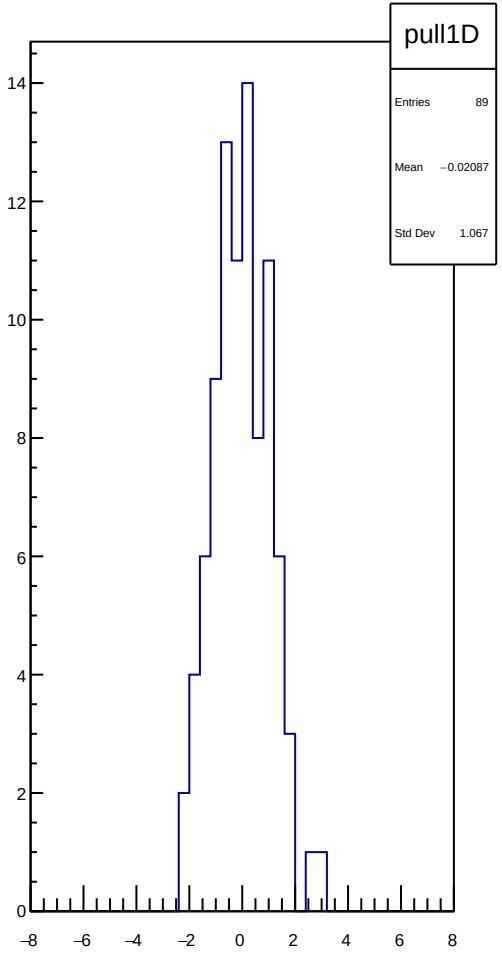

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 116.2 / 88
p0 −30.55 ± 0.6357
pull
Entries 89
Mean 279.3
Std Dev 0

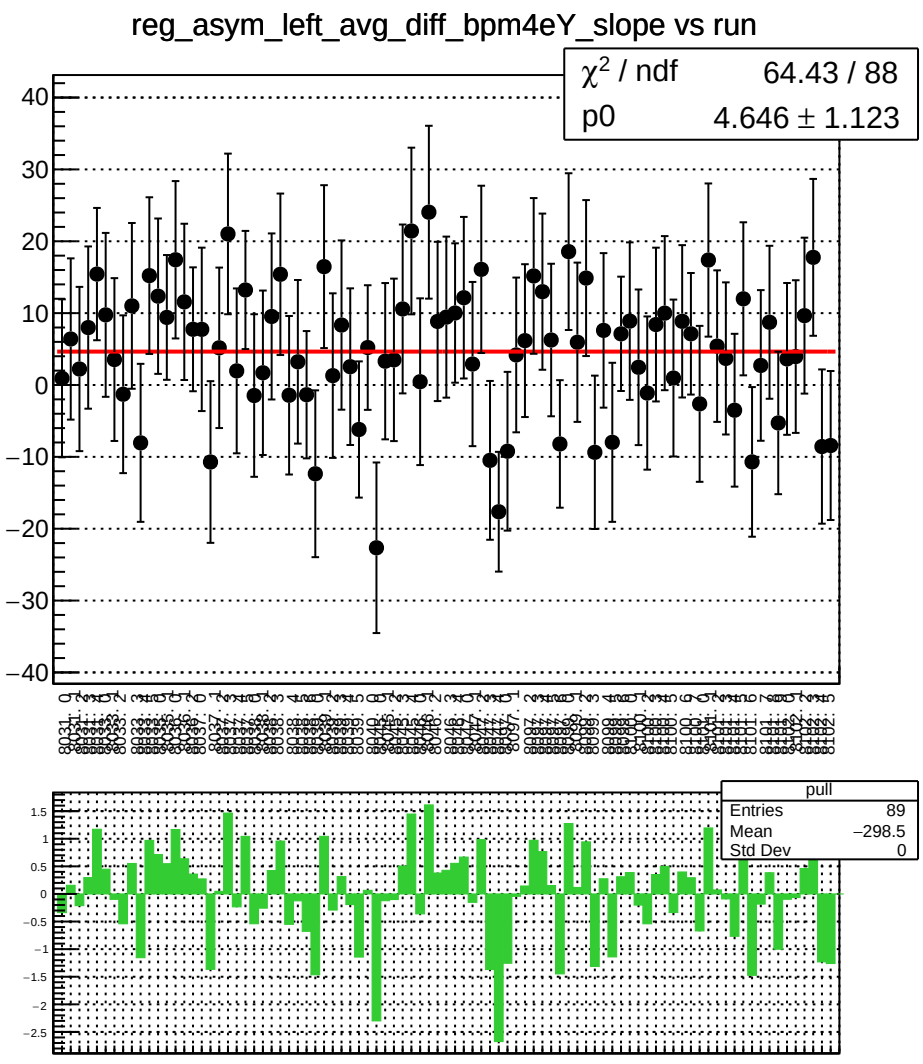

pull1D
Entries 89
Mean 0.06573
Std Dev 1.141

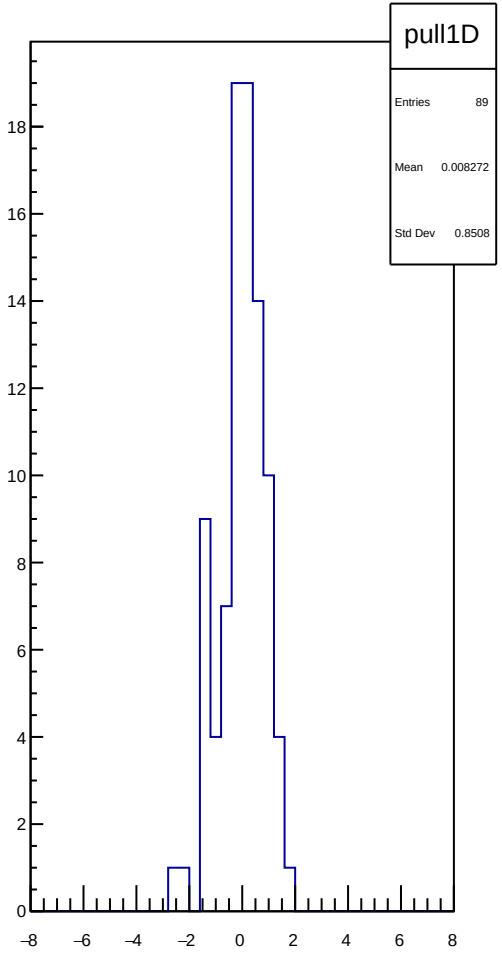

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 64.02 / 88
p0 4.671 ± 1.057
pull
Entries 89
Mean 102
Std Dev 28.2

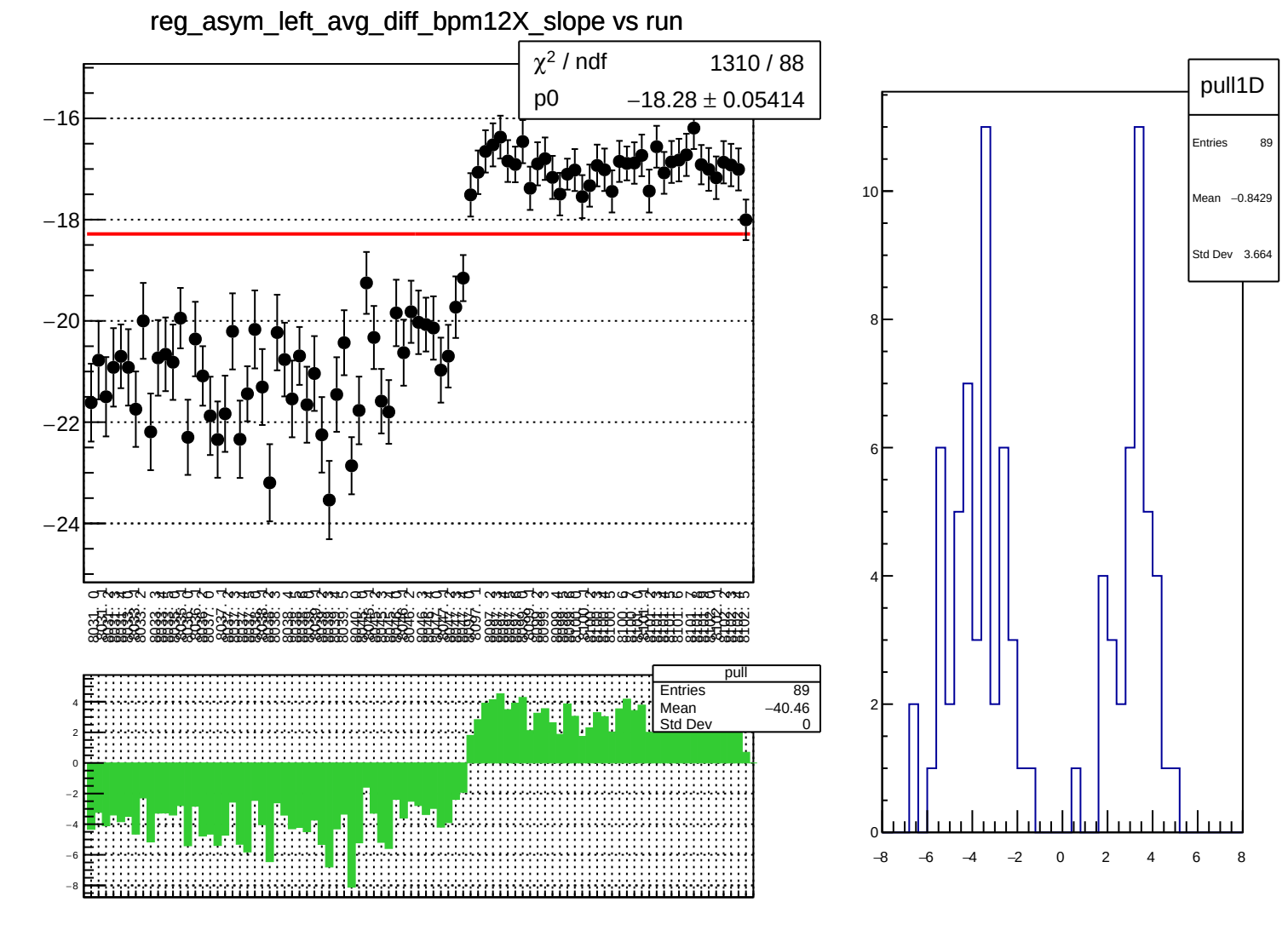

pull1D
Entries 89
Mean −0.006237
Std Dev 0.8481

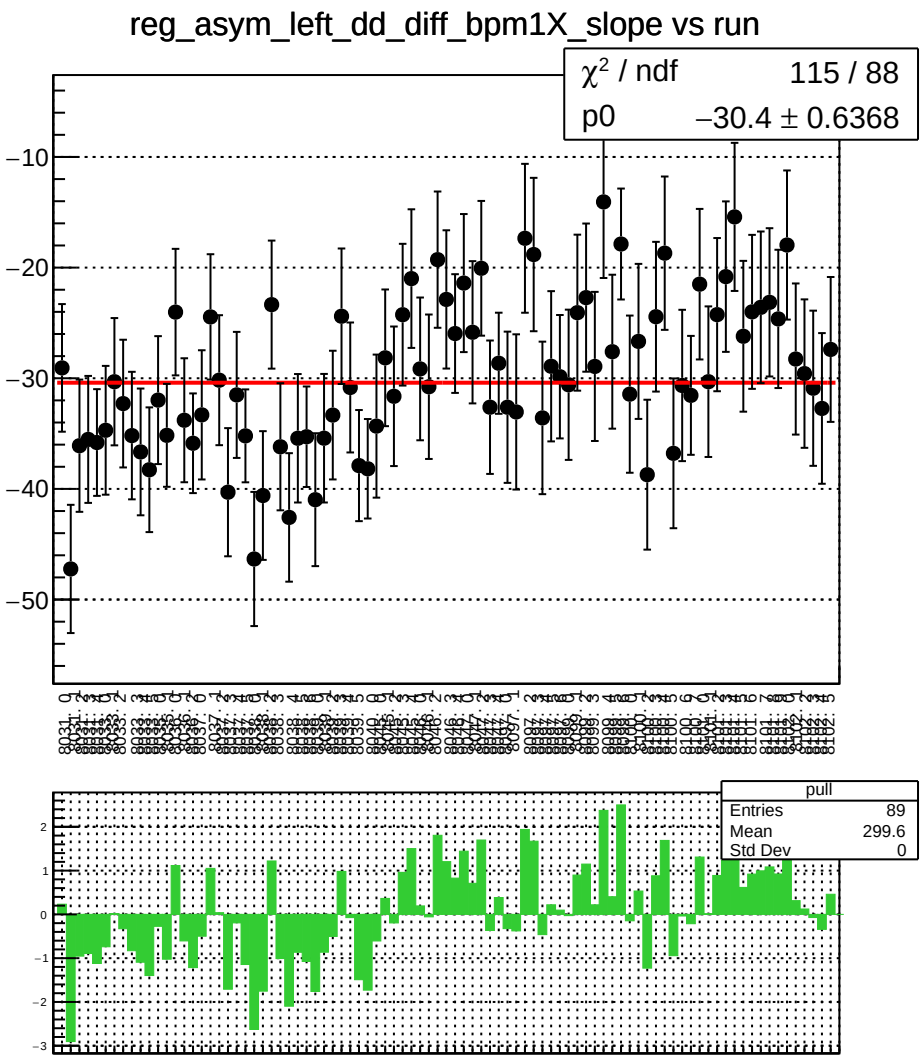

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 101.3 / 88
p0 −2.897 ± 0.6738
20
10
0
−10
−20
pull
Entries 89
Mean 663.4
Std Dev 0
3
2
1
0
−1
−2

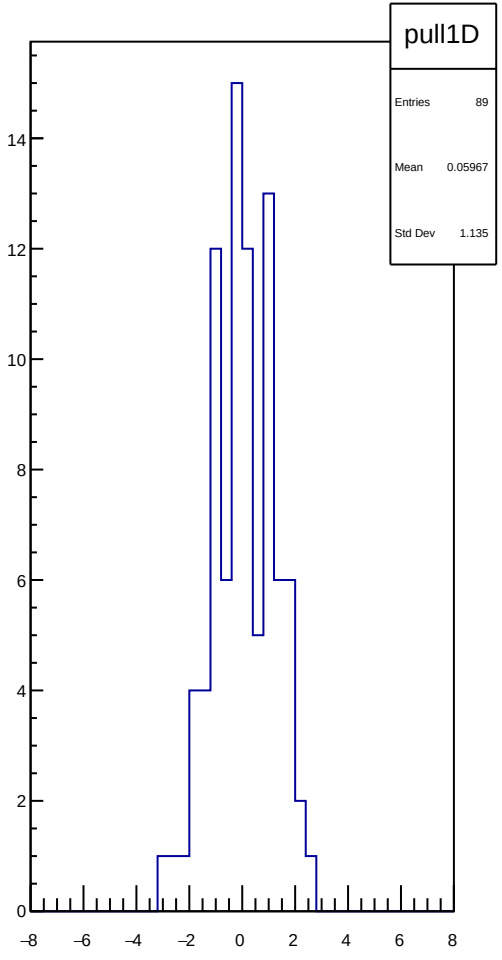

pull1D
Entries 89
Mean −0.02087
Std Dev 1.067
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

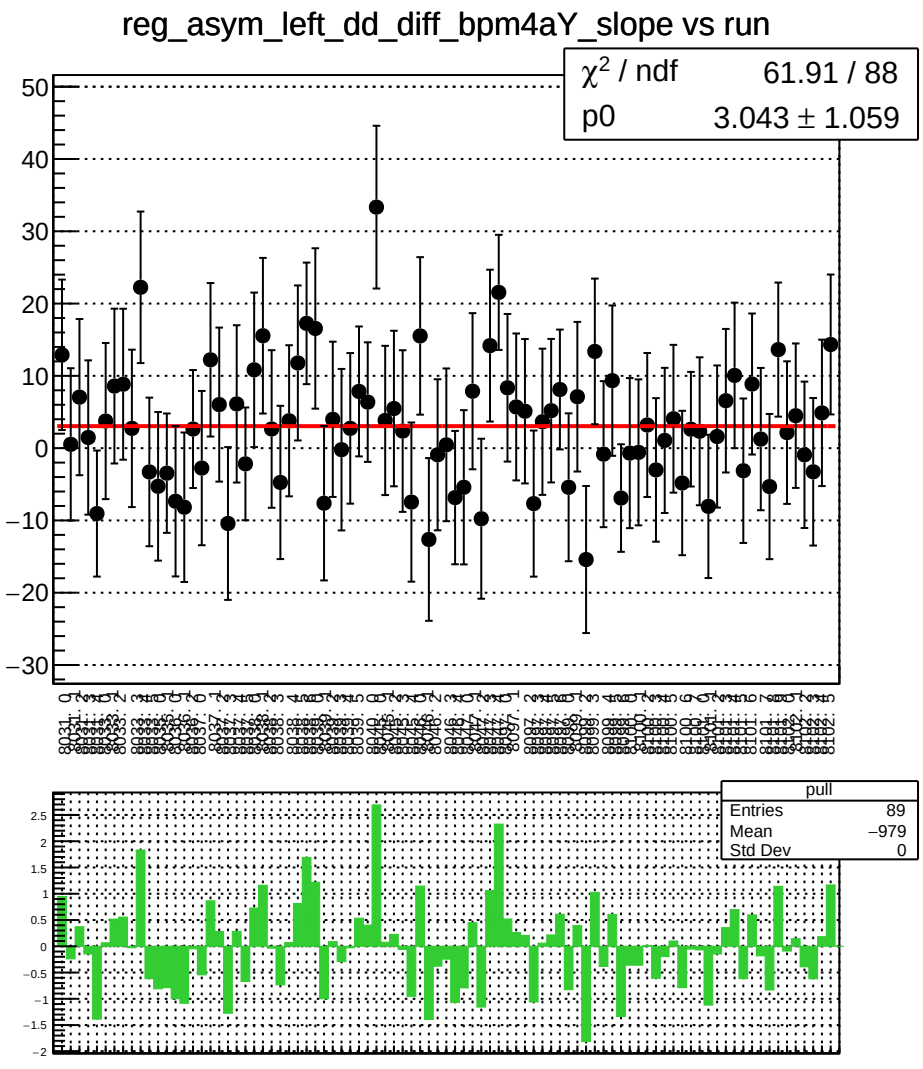

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 64.43 / 88
p0 4.646 ± 1.123
pull
Entries 89
Mean −298.5
Std Dev 0

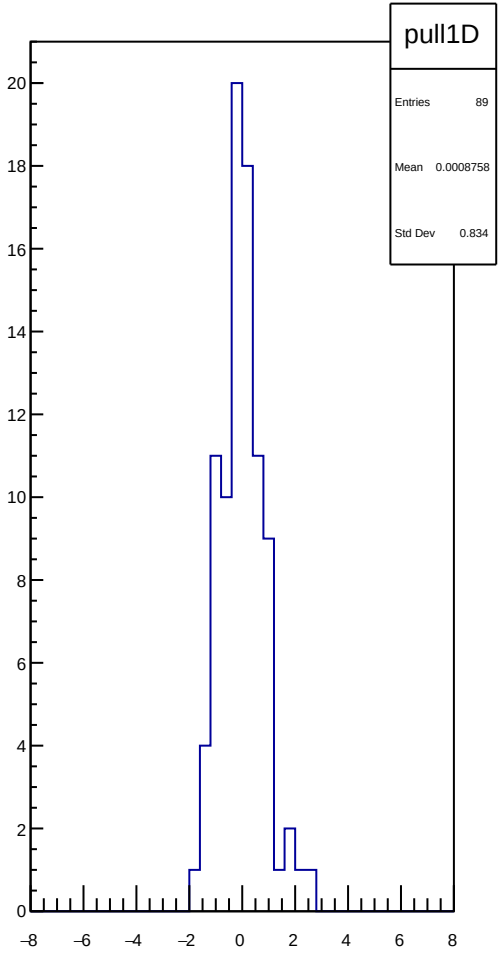

pull1D
Entries 89
Mean 0.008272
Std Dev 0.8508

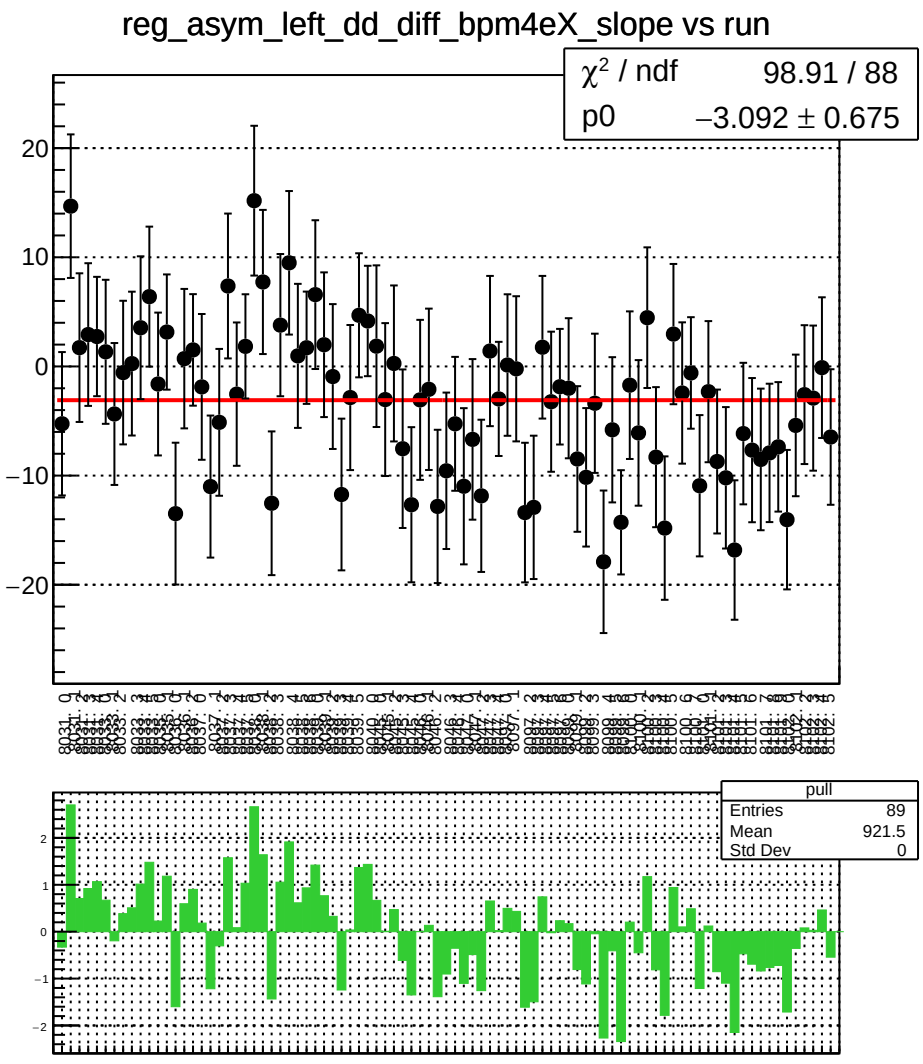

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 1310 / 88
p0 −18.28 ± 0.05414
pull
Entries 89
Mean −40.46
Std Dev 0
pull1D
Entries 89
Mean −0.8429
Std Dev 3.664

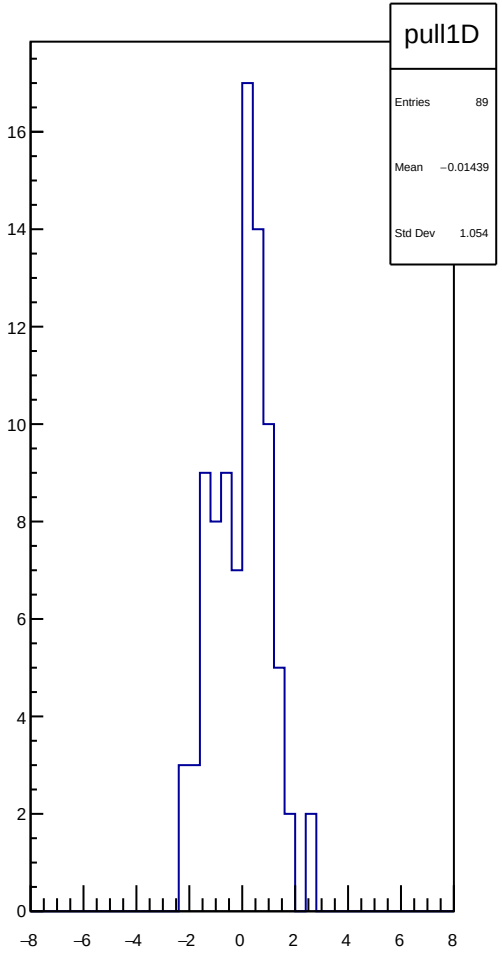

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 115 / 88
p0 −30.4 ± 0.6368
−10
−20
−30
−40
−50
pull
Entries 89
Mean 299.6
Std Dev 0
2
1
0
−1
−2
−3

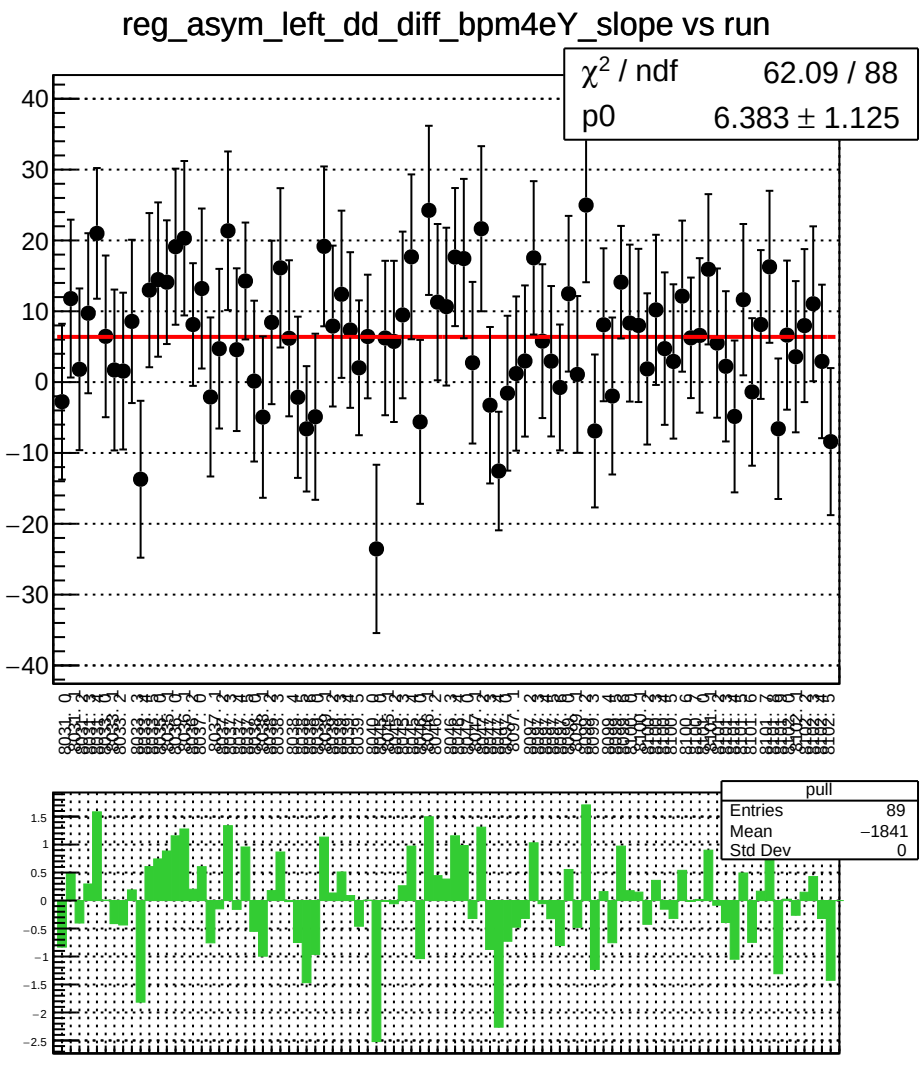

pull1D
Entries 89
Mean 0.05967
Std Dev 1.135
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

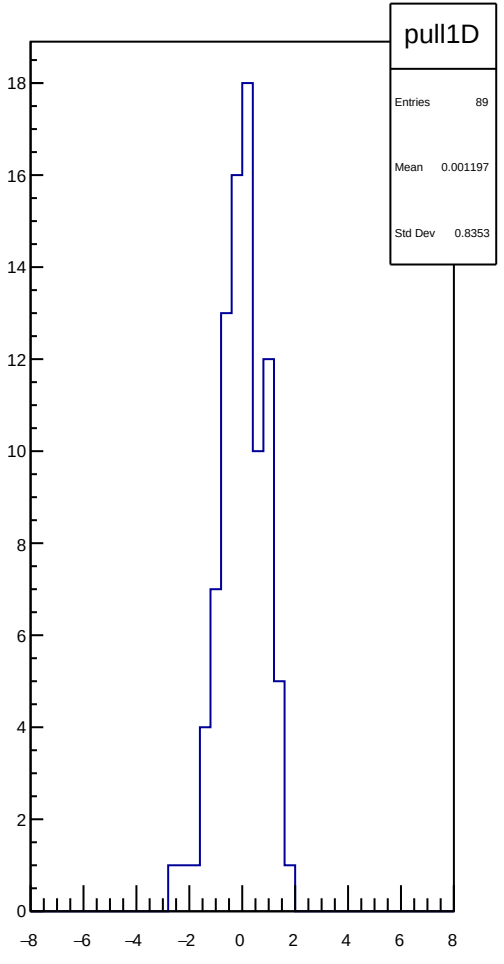

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 61.91 / 88
p0 3.043 ± 1.059
pull
Entries 89
Mean −979
Std Dev 0

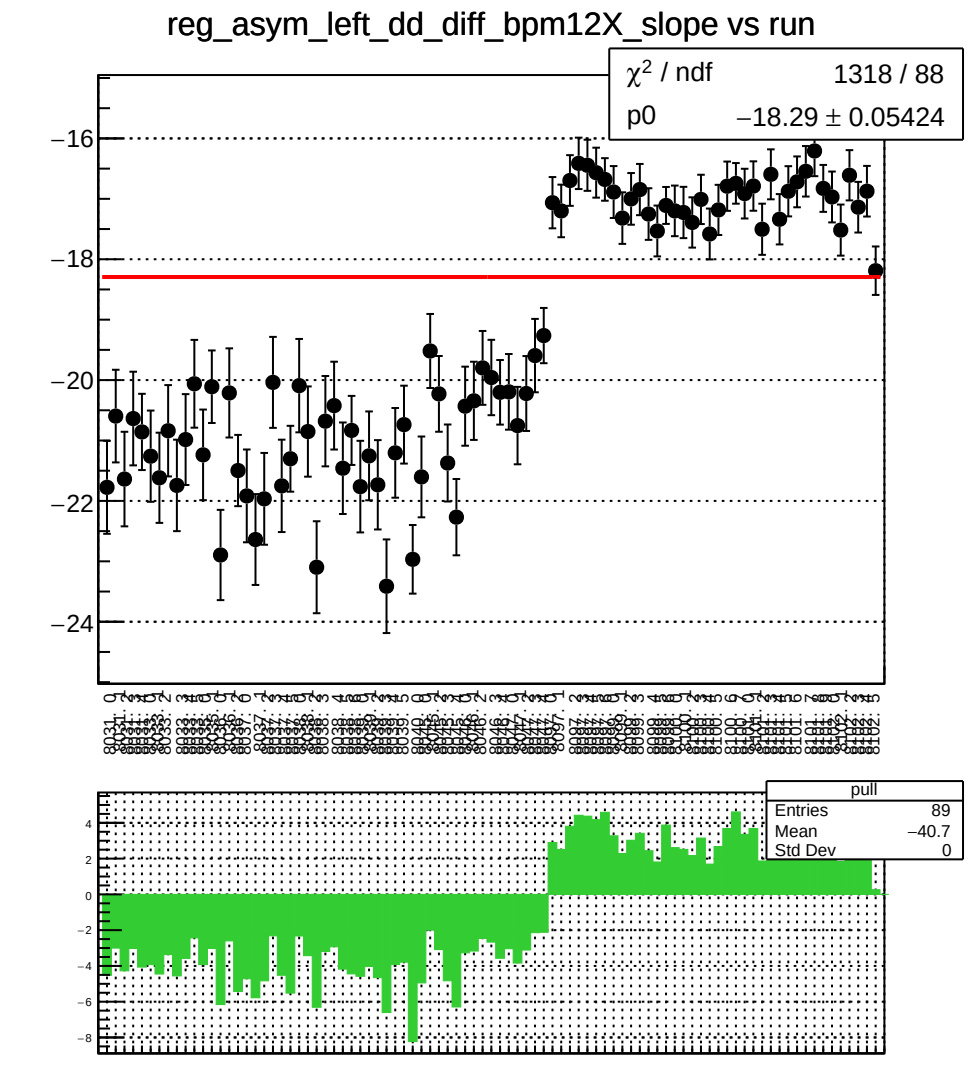

pull1D
Entries 89
Mean 0.0008758
Std Dev 0.834

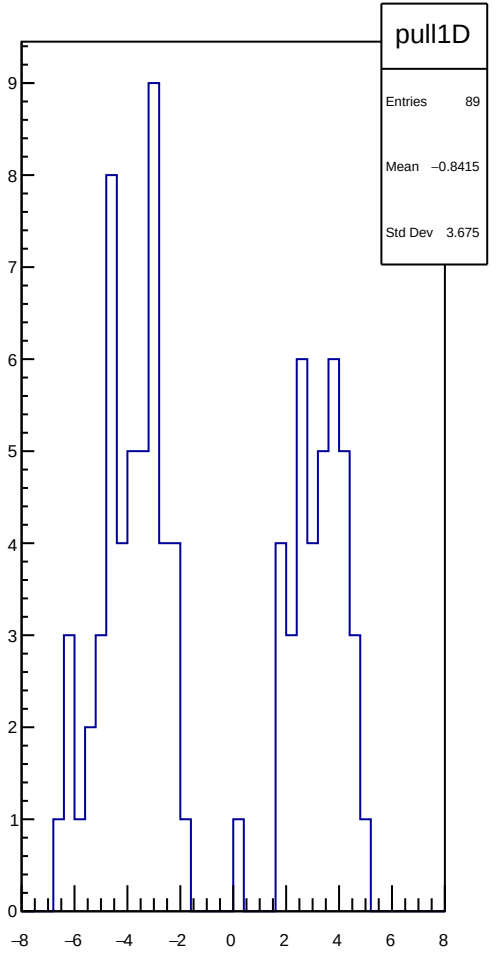

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 98.91 / 88
p0 −3.092 ± 0.675
pull
Entries 89
Mean 921.5
Std Dev 0

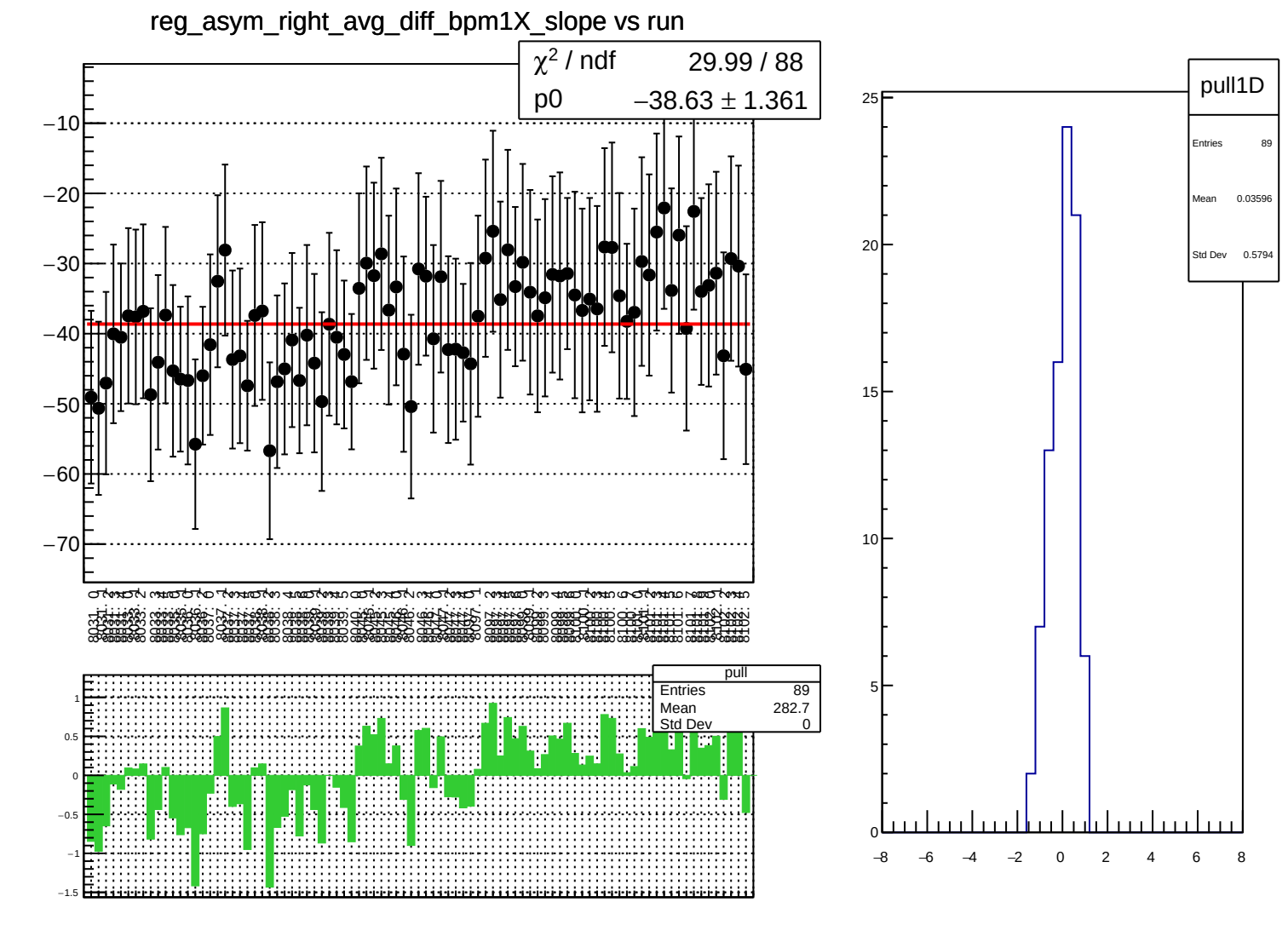

pull1D
Entries 89
Mean −0.01439
Std Dev 1.054

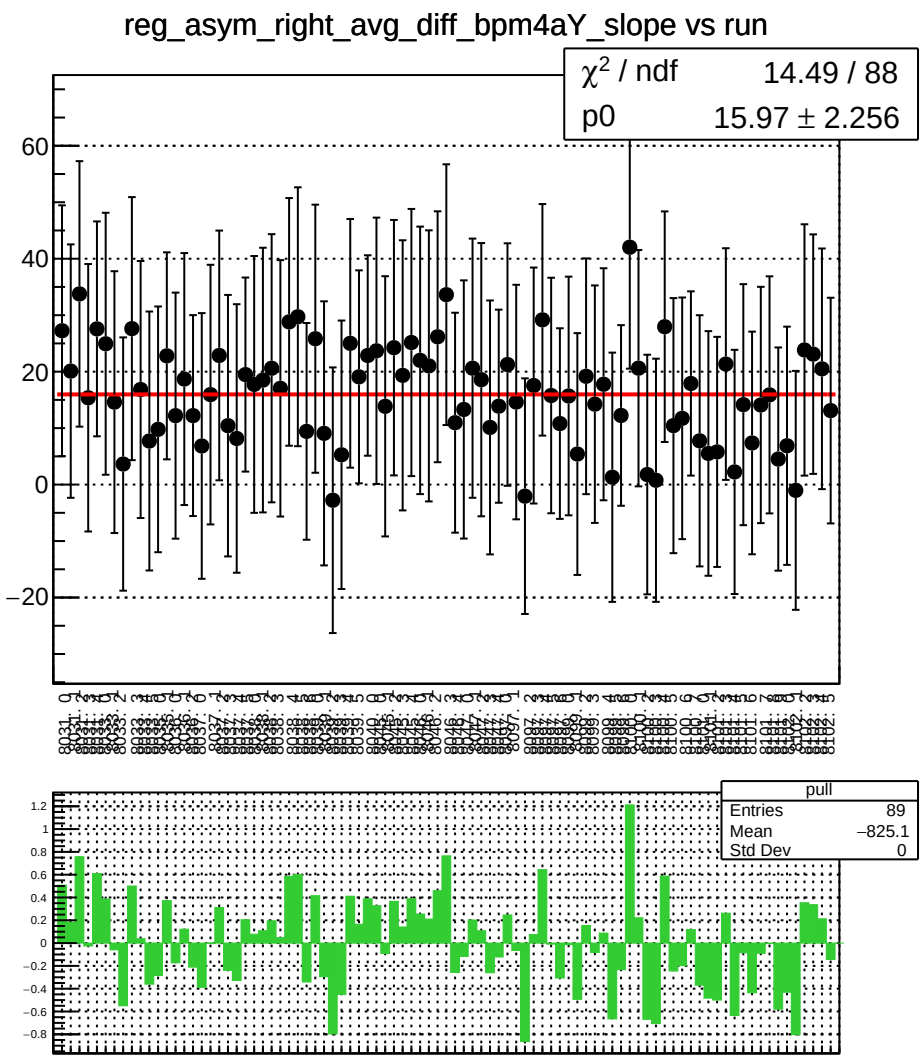

reg_asym_left_dd_diff_bpm4eY_slope vs run
$\chi^2$ / ndf 62.09 / 88
p0 6.383 ± 1.125
pull
Entries 89
Mean −1841
Std Dev 0

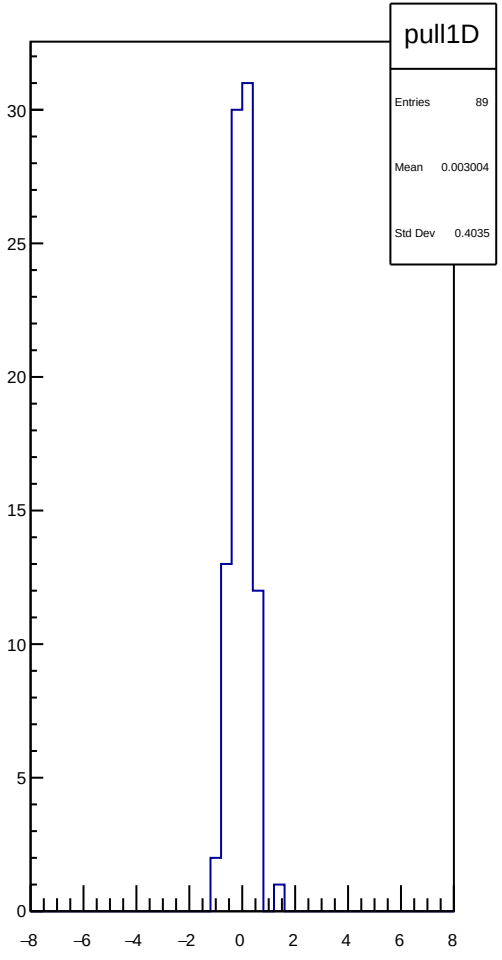

pull1D
Entries 89
Mean 0.001197
Std Dev 0.8353

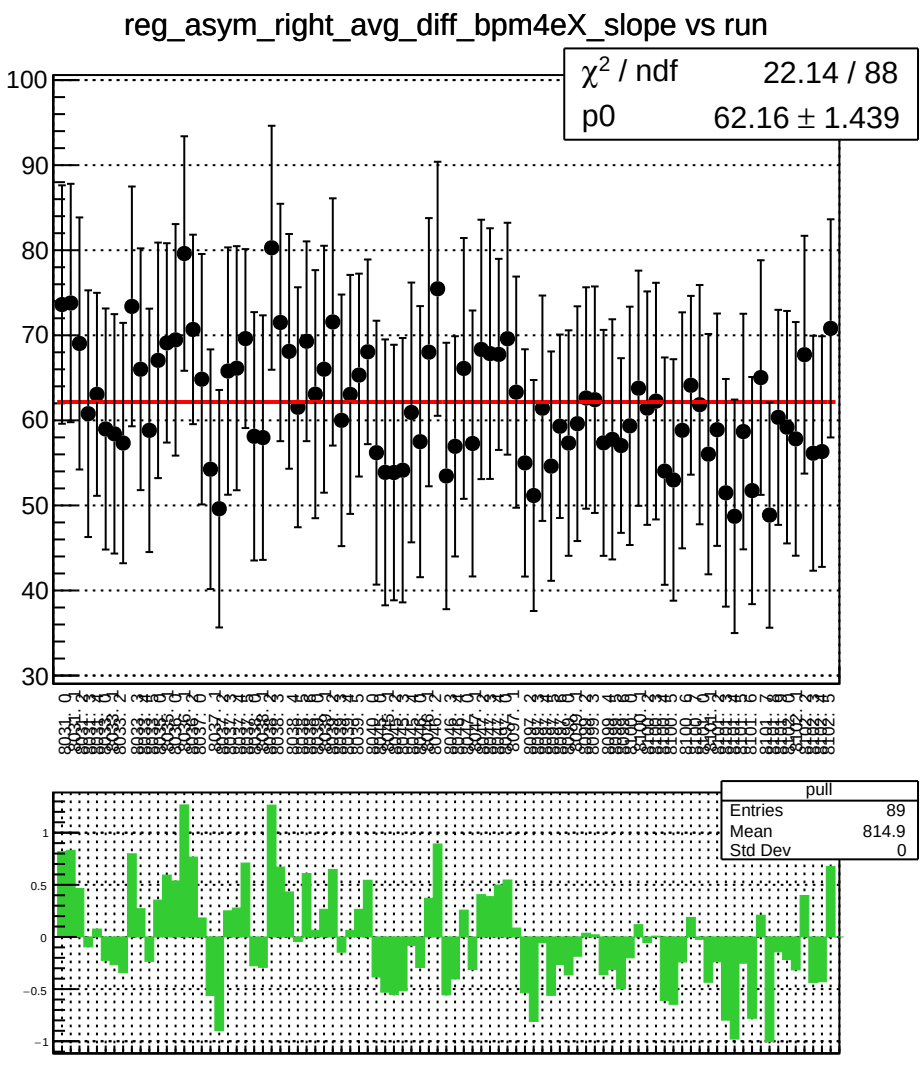

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 1318 / 88
p0 −18.29 ± 0.05424
−16
−18
−20
−22
−24
pull
Entries 89
Mean −40.7
Std Dev 0
4
2
0
−2
−4
−6
−8

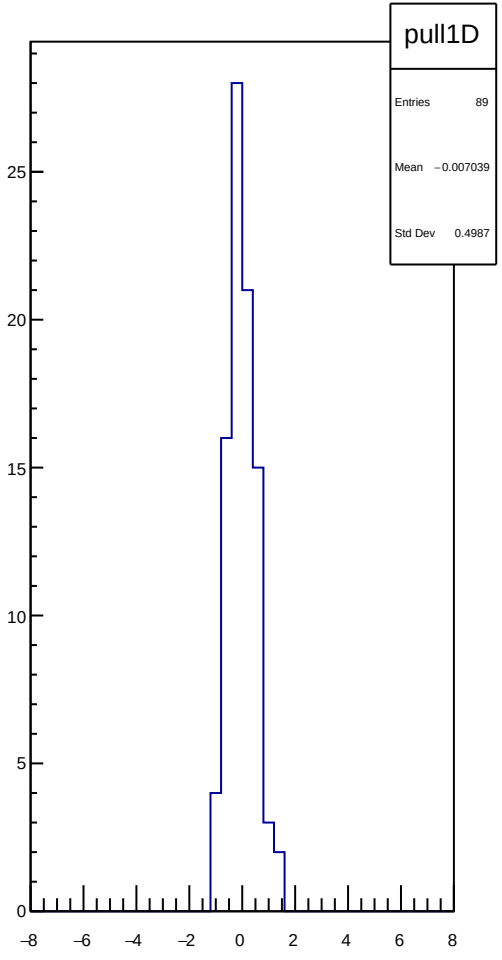

pull1D
Entries 89
Mean −0.8415
Std Dev 3.675
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

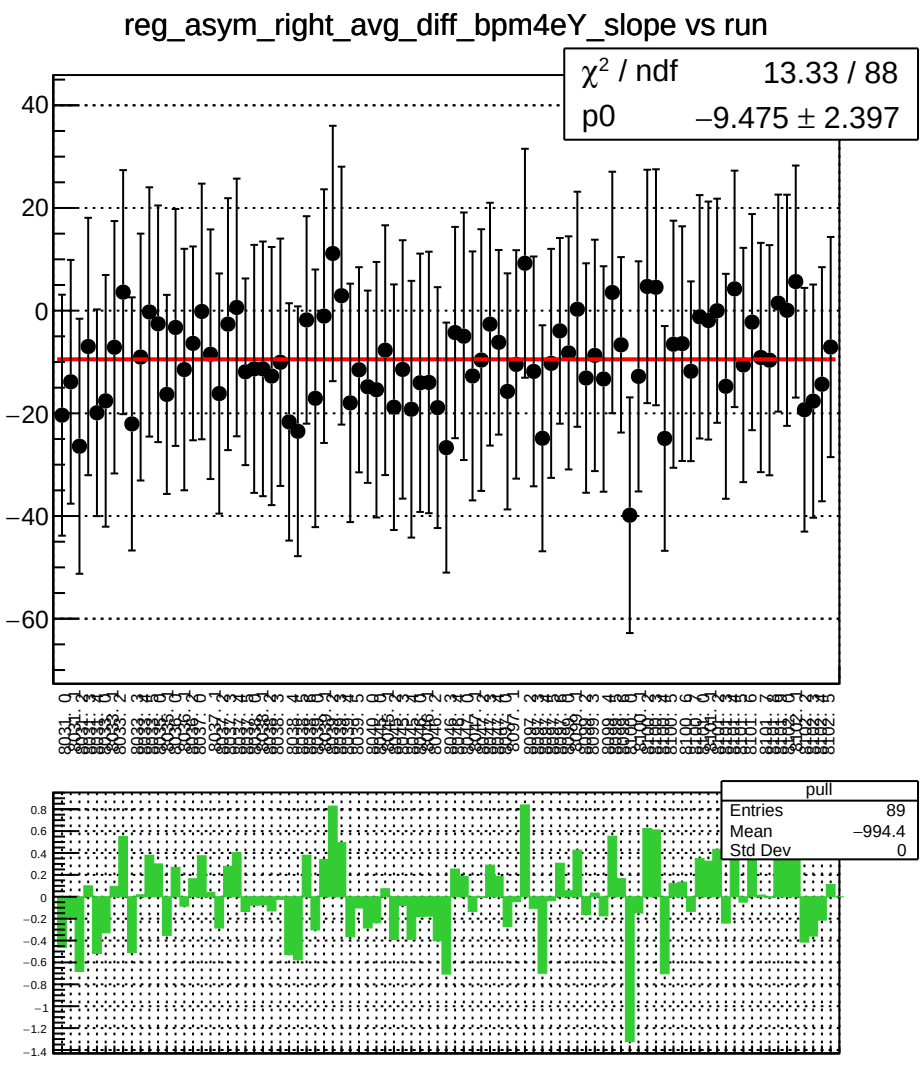

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 29.99 / 88
p0 −38.63 ± 1.361
pull
Entries 89
Mean 282.7
Std Dev 0
pull1D
Entries 89
Mean 0.03596
Std Dev 0.5794

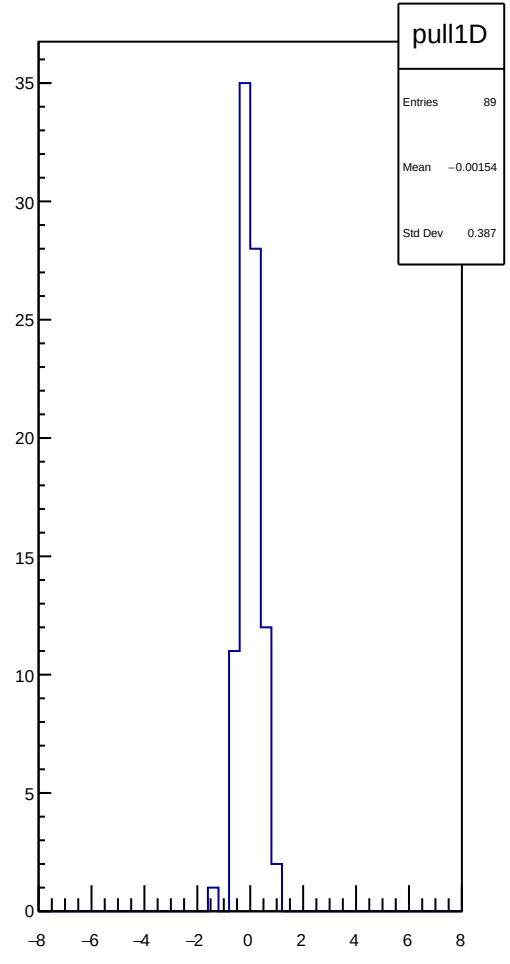

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.49 / 88
p0 15.97 ± 2.256
pull
Entries 89
Mean −825.1
Std Dev 0

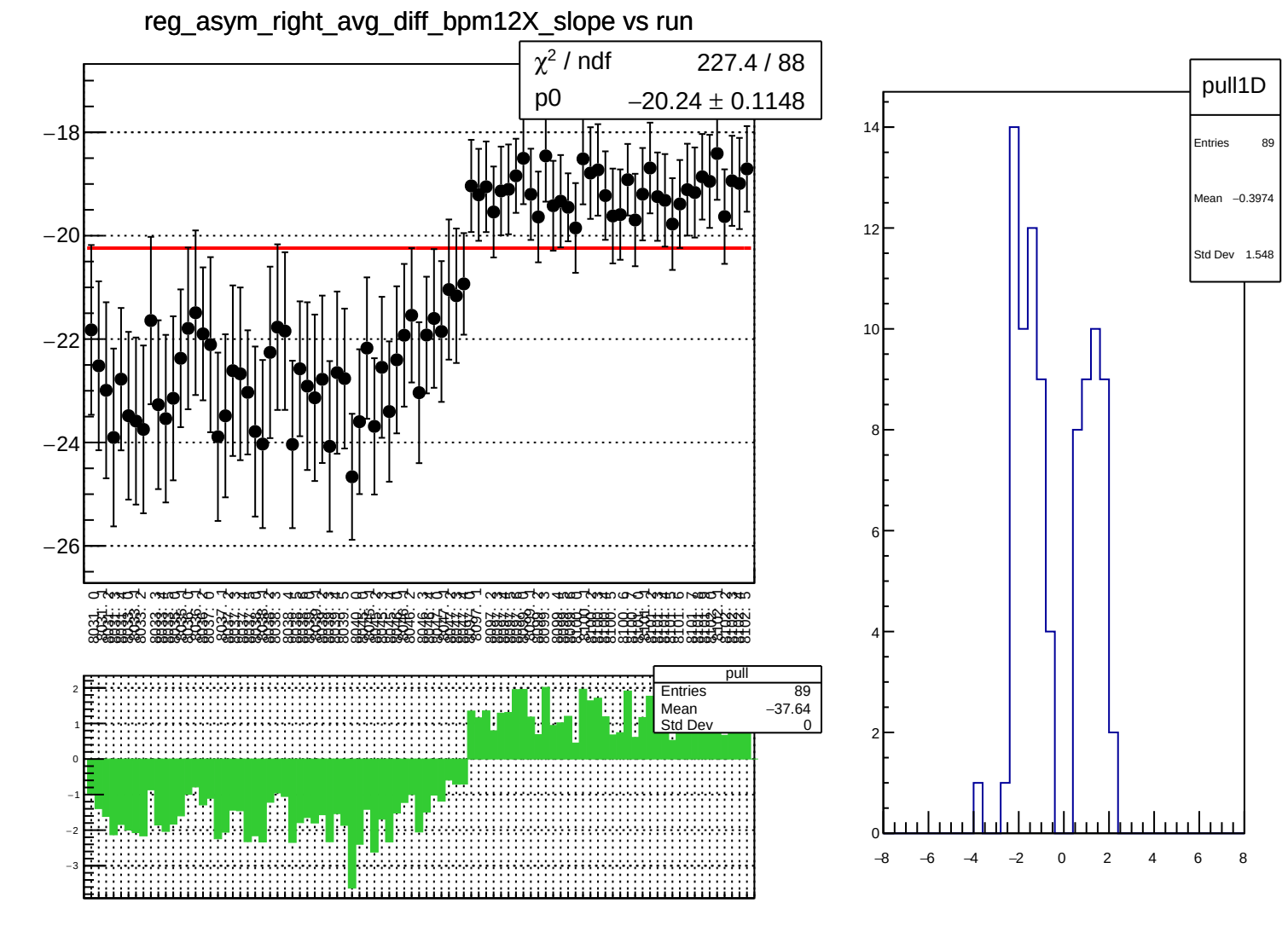

pull1D
Entries 89
Mean 0.003004
Std Dev 0.4035

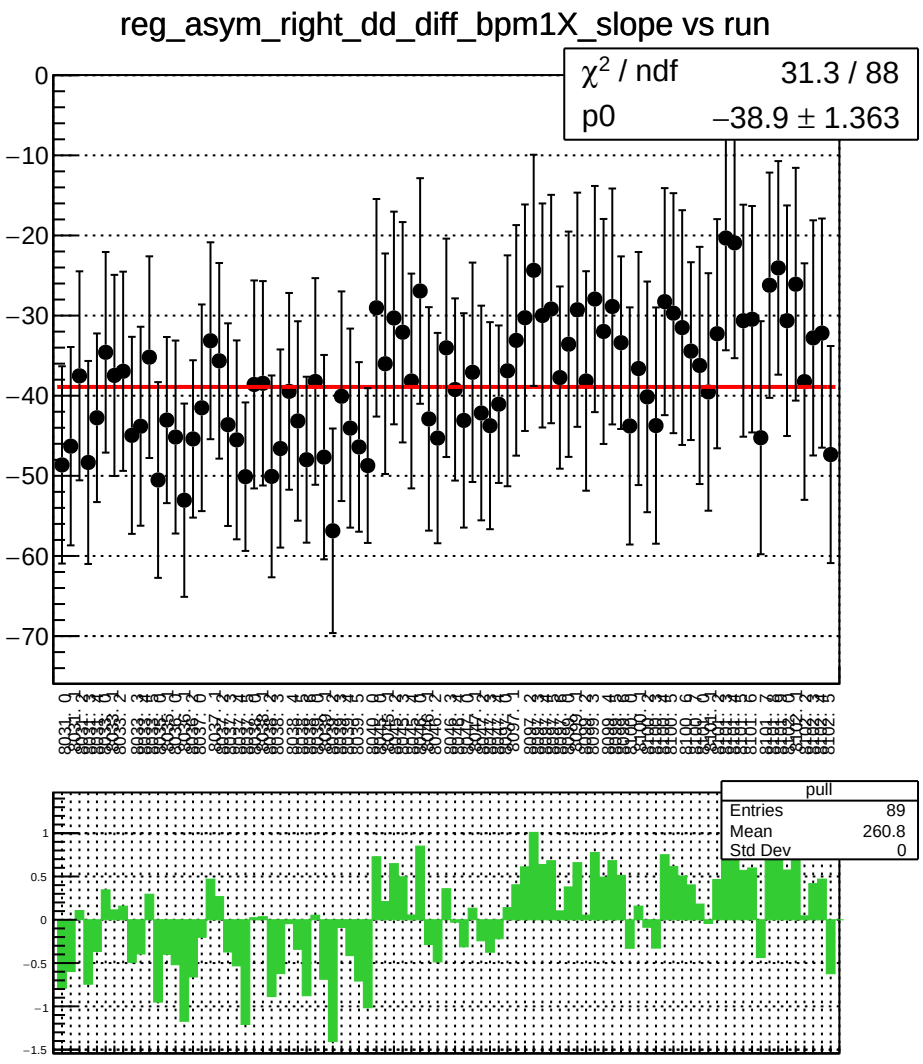

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 22.14 / 88
p0 62.16 ± 1.439
pull
Entries 89
Mean 814.9
Std Dev 0

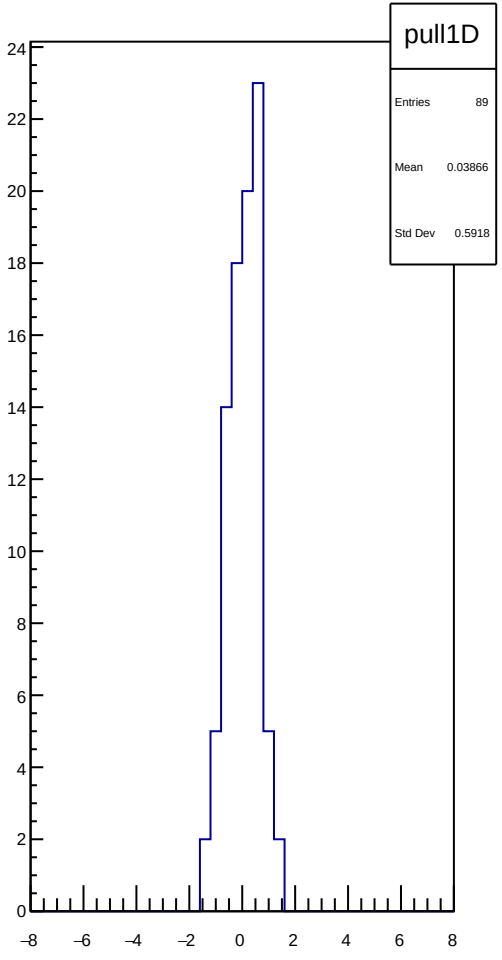

pull1D
Entries 89
Mean −0.007039
Std Dev 0.4987

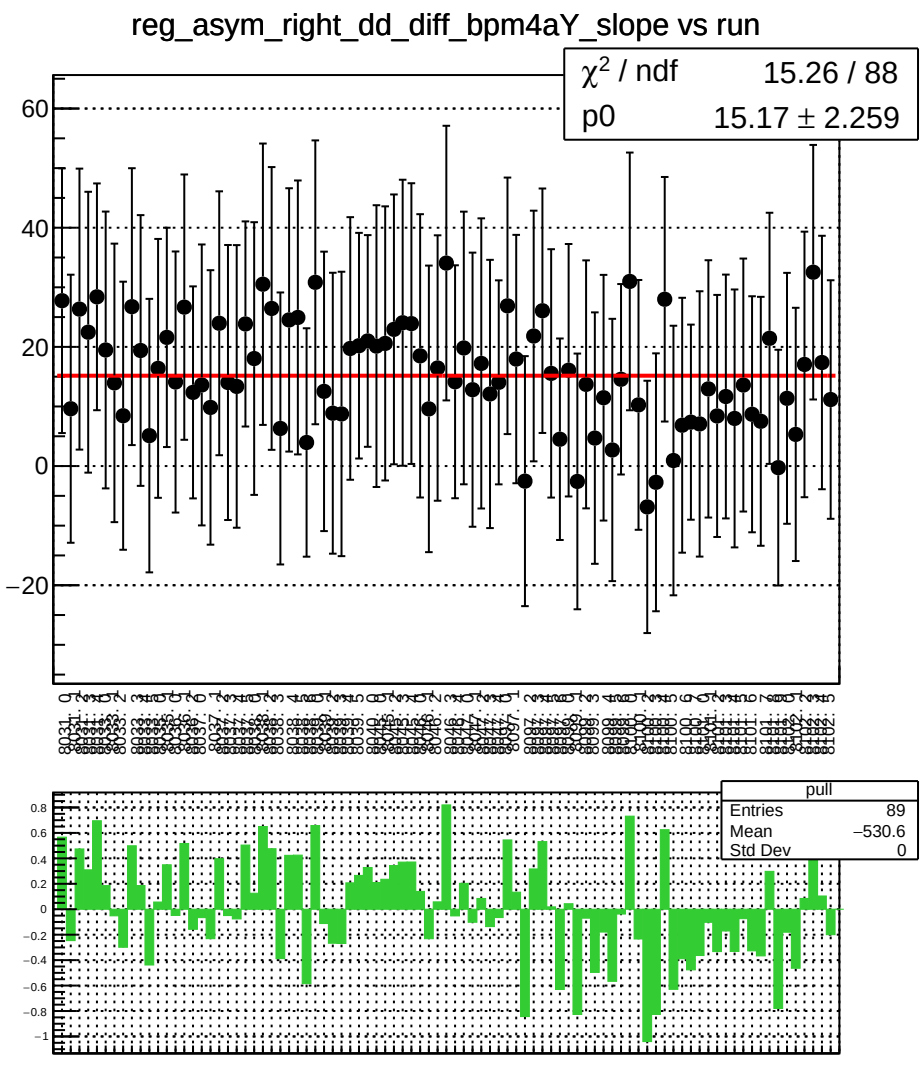

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.33 / 88
p0 −9.475 ± 2.397
pull
Entries 89
Mean −994.4
Std Dev 0

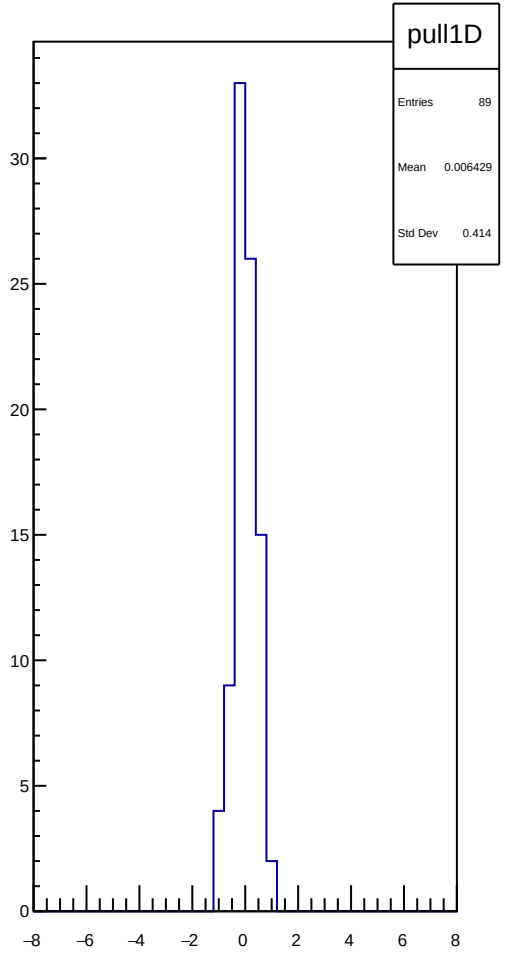

pull1D
Entries 89
Mean −0.00154
Std Dev 0.387

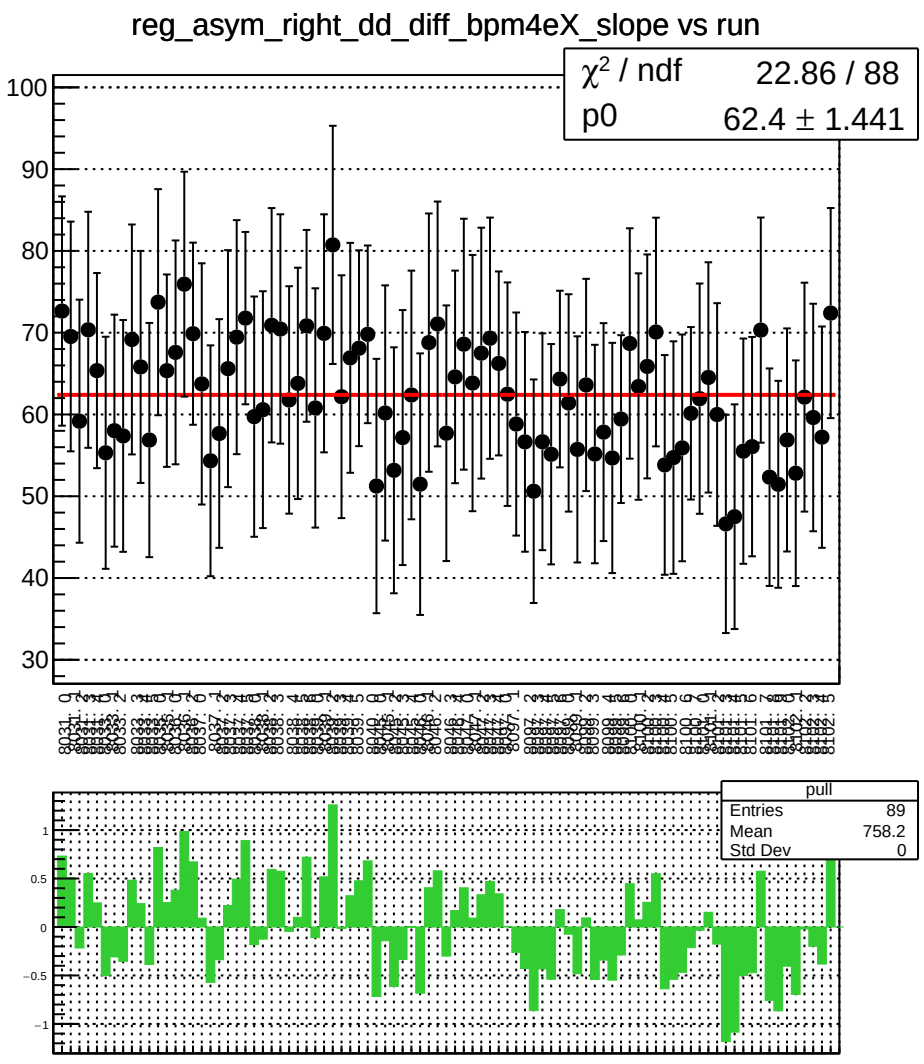

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 227.4 / 88
p0 −20.24 ± 0.1148
−18
−20
−22
−24
−26
pull
Entries 89
Mean −37.64
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.3974
Std Dev 1.548
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

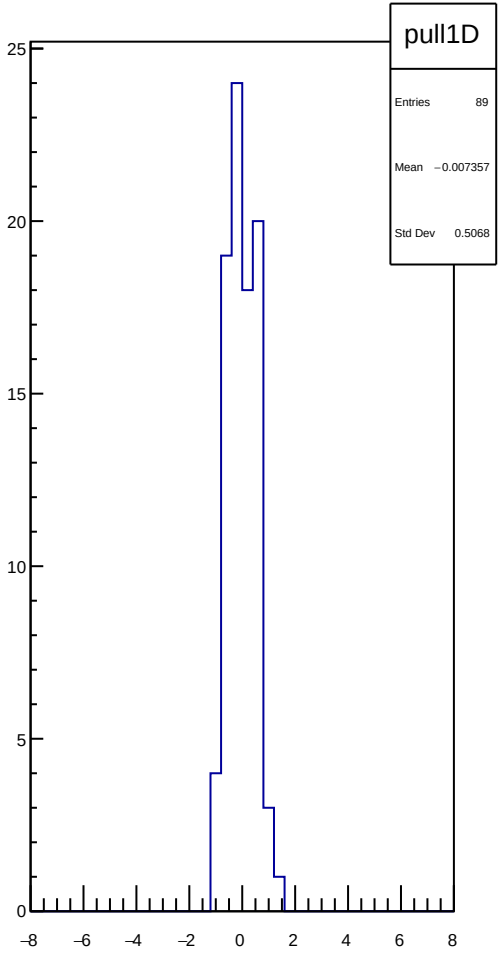

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 31.3 / 88
p0 −38.9 ± 1.363
pull
Entries 89
Mean 260.8
Std Dev 0

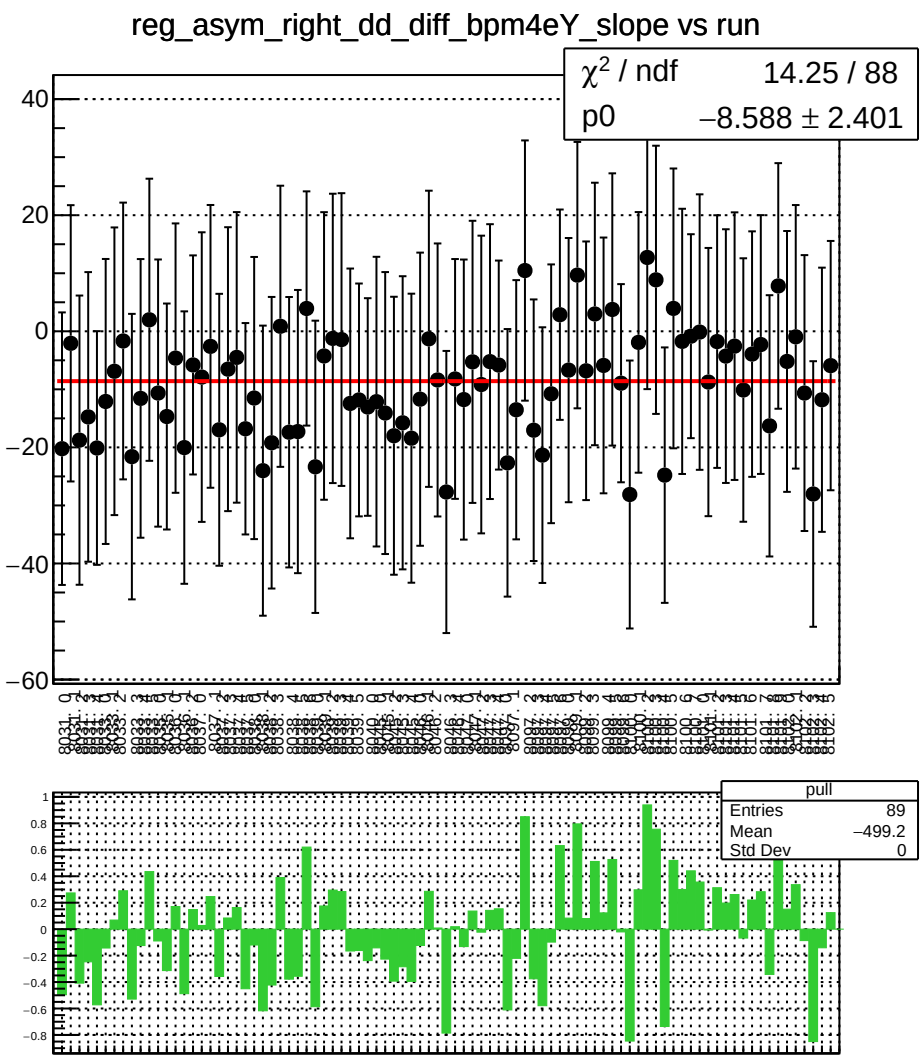

pull1D
Entries 89
Mean 0.03866
Std Dev 0.5918

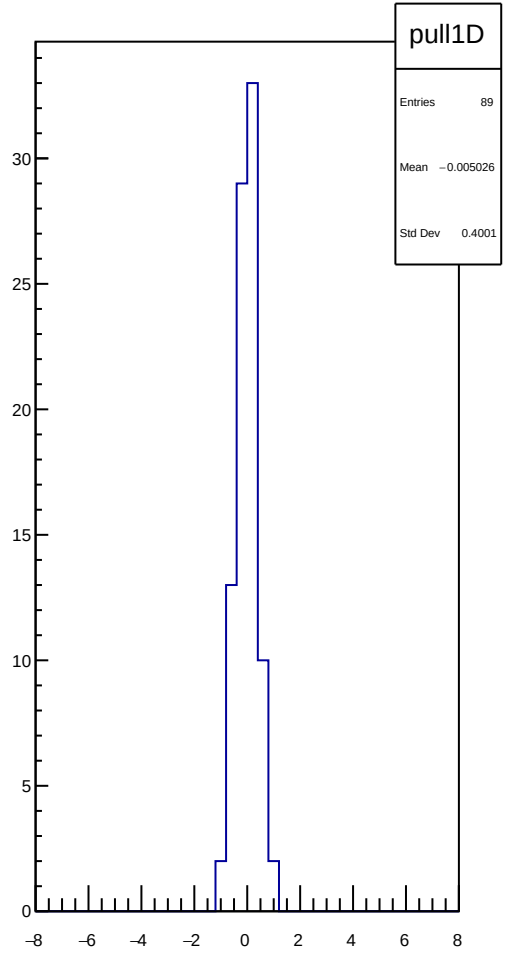

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.26 / 88
p0 15.17 ± 2.259
pull
Entries 89
Mean −530.6
Std Dev 0

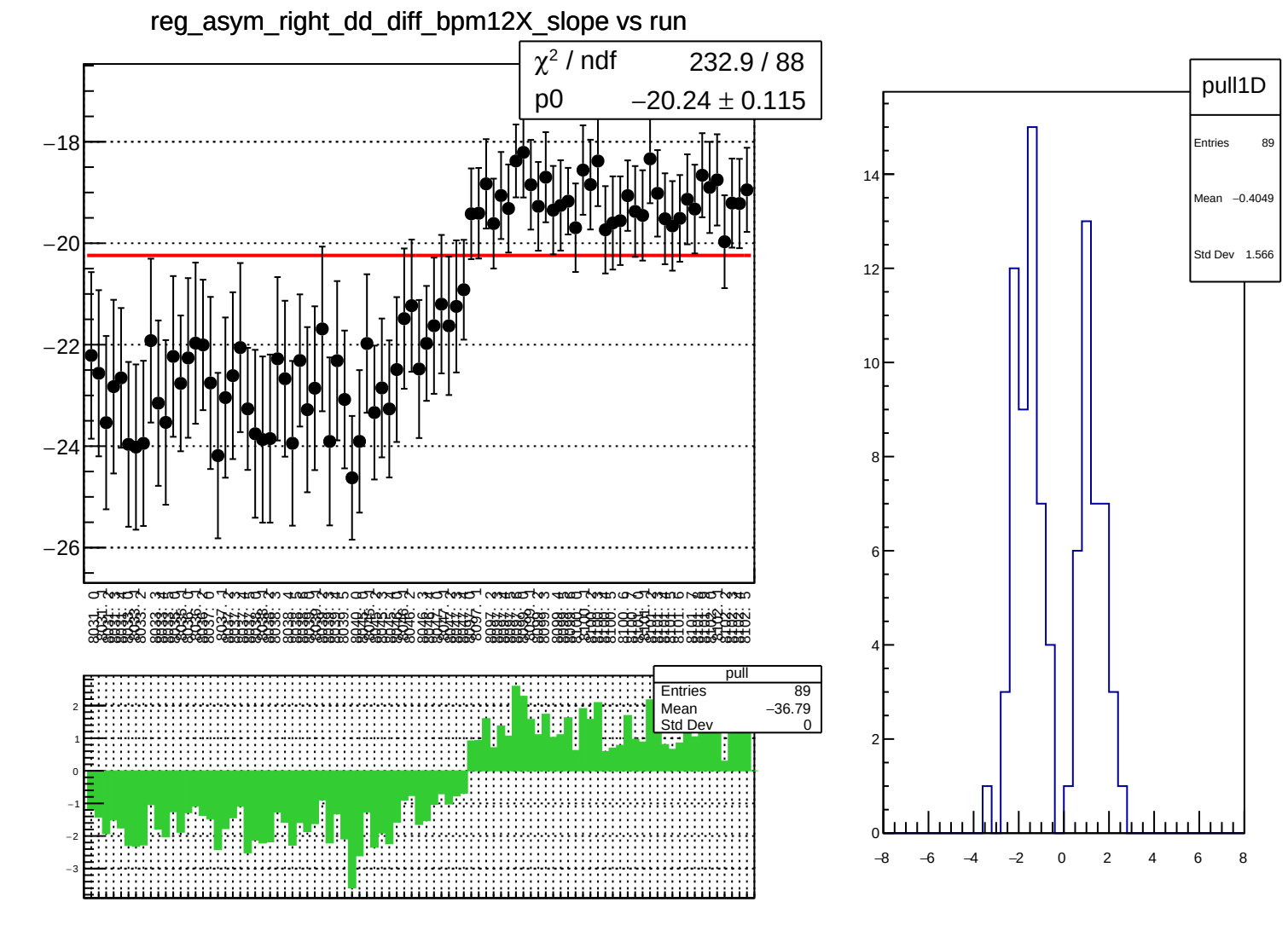

pull1D
Entries 89
Mean 0.006429
Std Dev 0.414

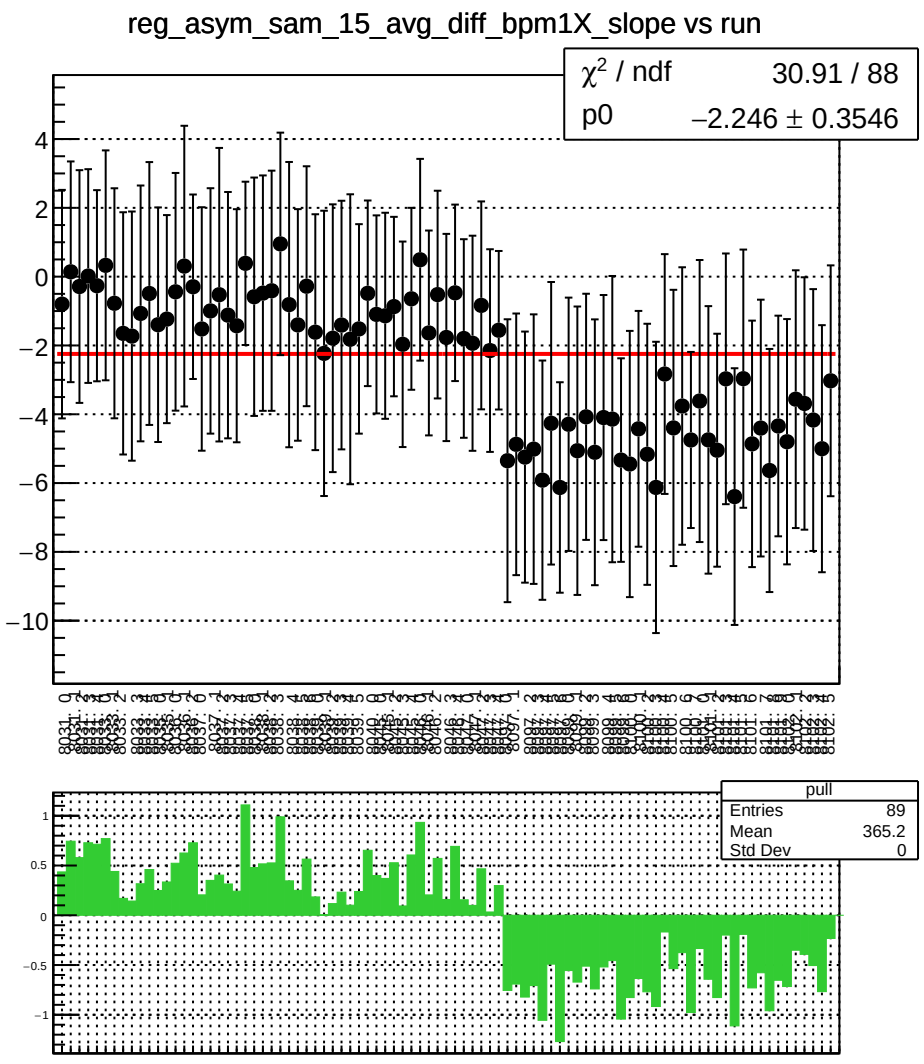

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 22.86 / 88
p0 62.4 ± 1.441
pull
Entries 89
Mean 758.2
Std Dev 0

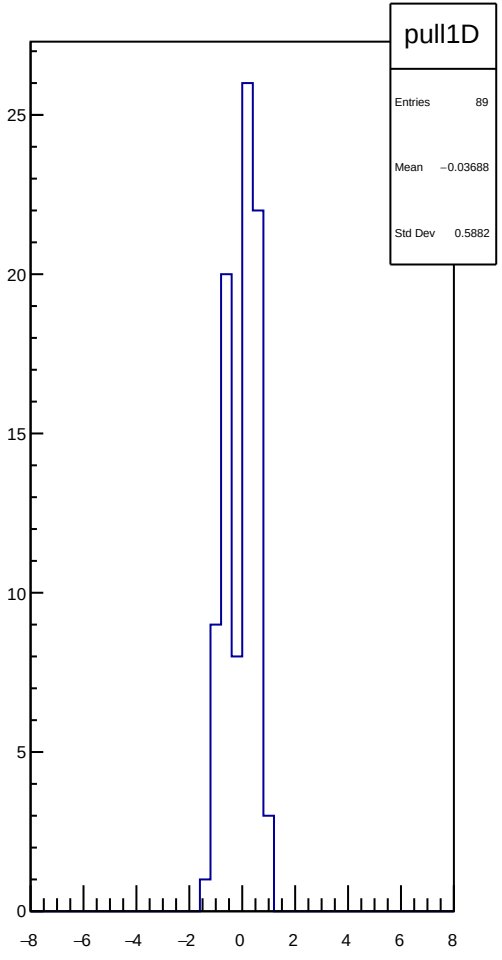

pull1D
Entries 89
Mean −0.007357
Std Dev 0.5068

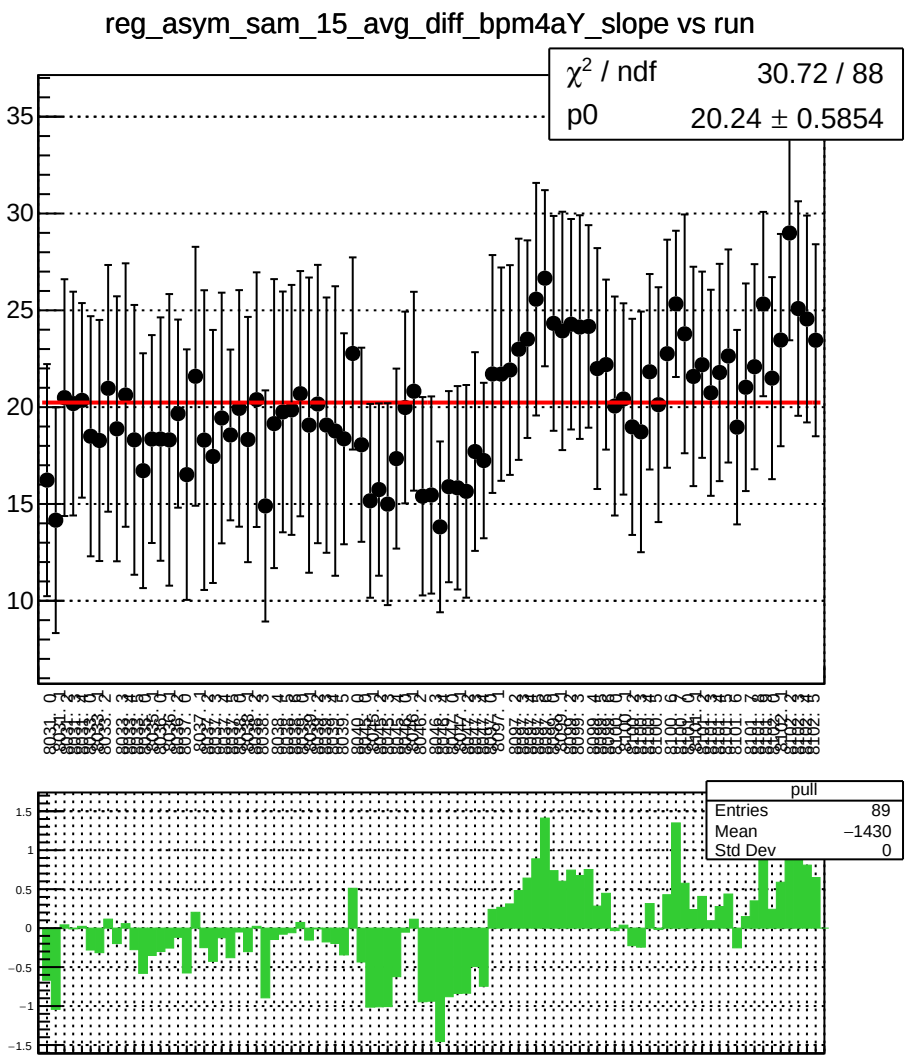

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.25 / 88
p0 −8.588 ± 2.401
pull
Entries 89
Mean −499.2
Std Dev 0

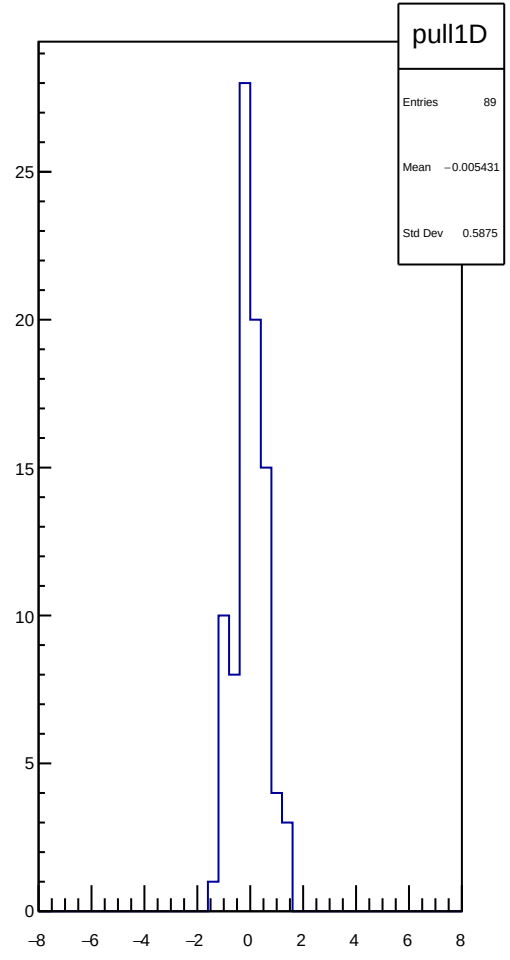

pull1D
Entries 89
Mean −0.005026
Std Dev 0.4001

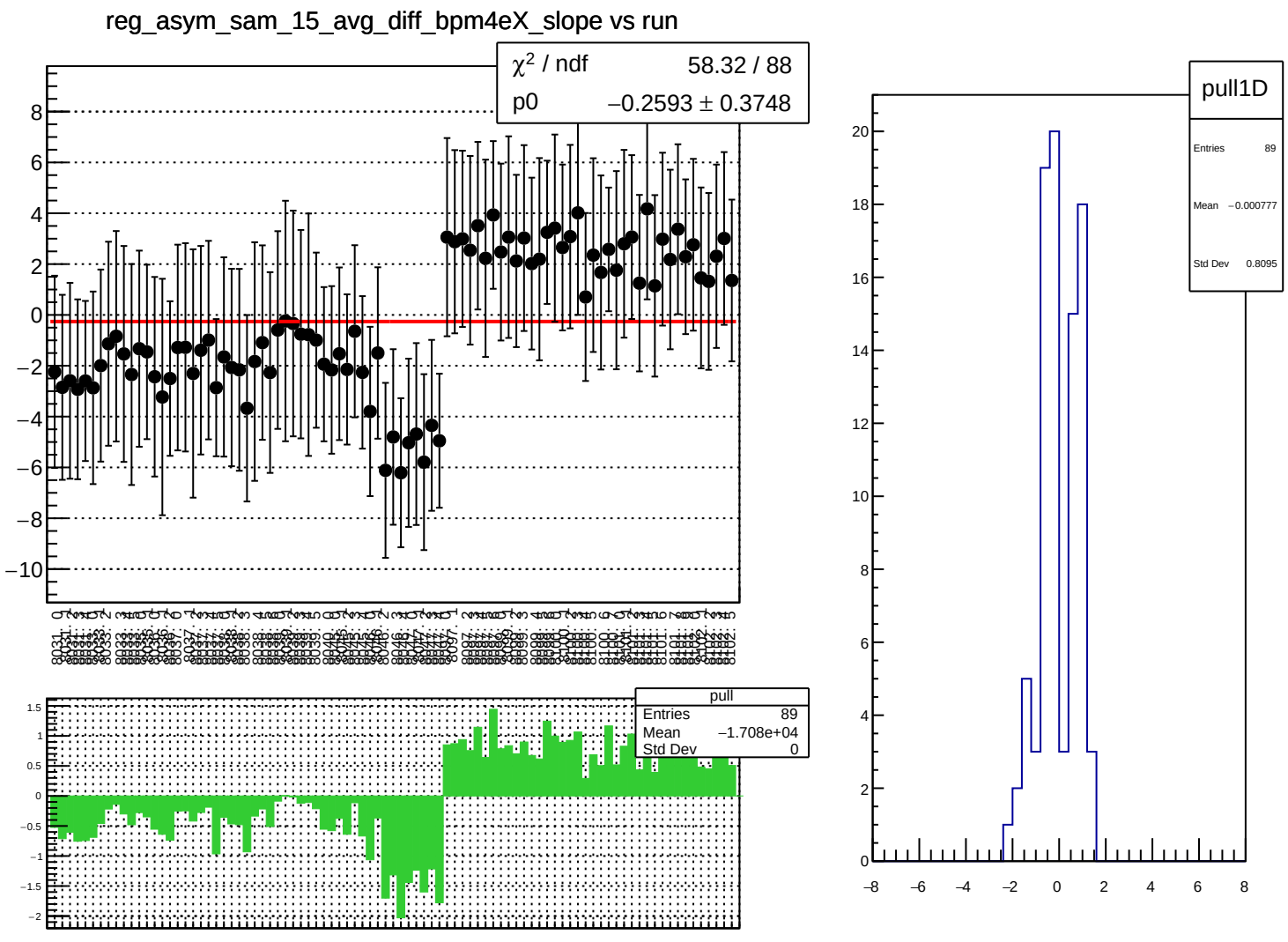

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 232.9 / 88
p0 −20.24 ± 0.115
−18
−20
−22
−24
−26
pull
Entries 89
Mean −36.79
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.4049
Std Dev 1.566
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

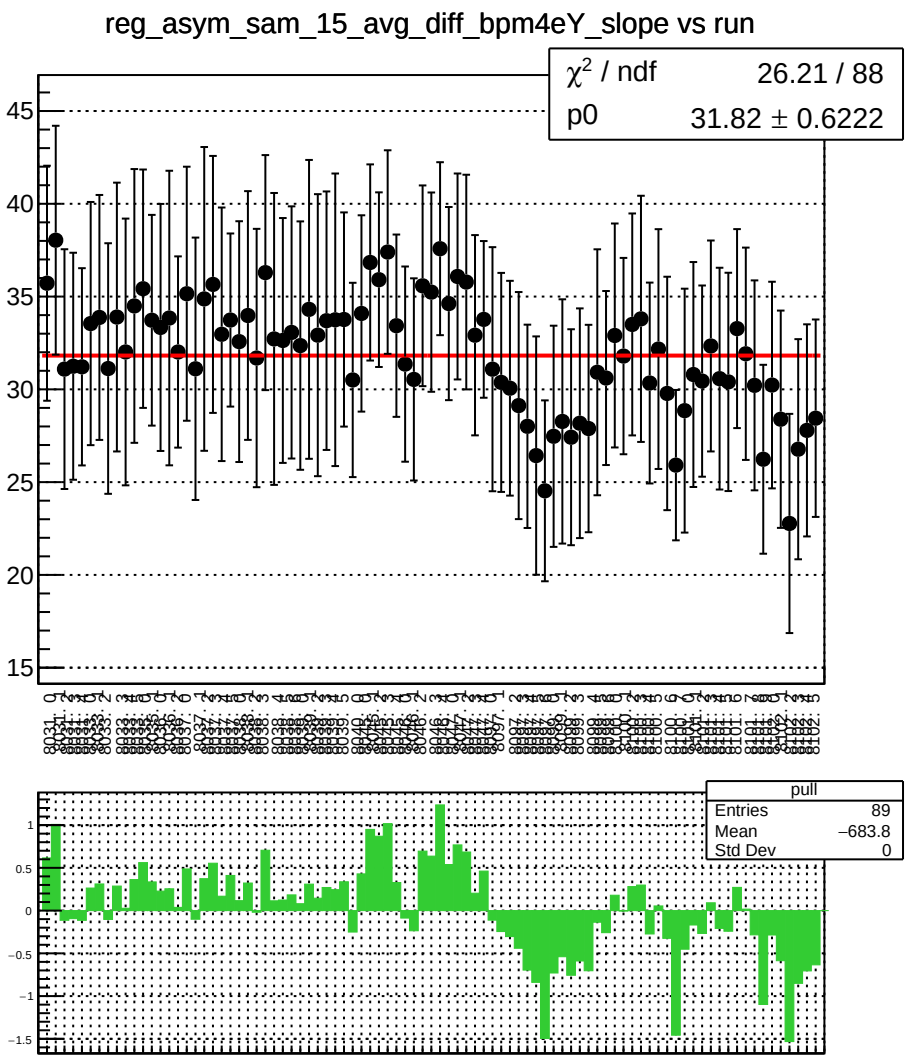

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 30.91 / 88
p0 −2.246 ± 0.3546
pull
Entries 89
Mean 365.2
Std Dev 0

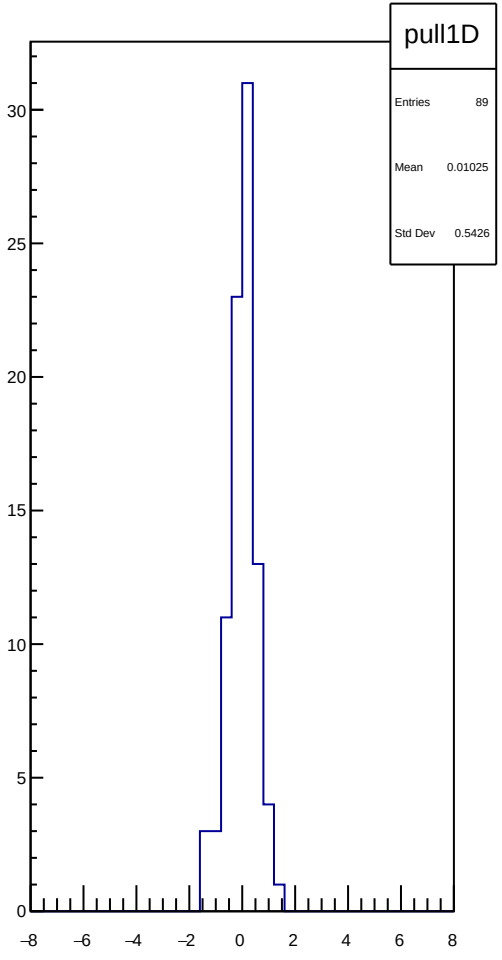

pull1D
Entries 89
Mean −0.03688
Std Dev 0.5882

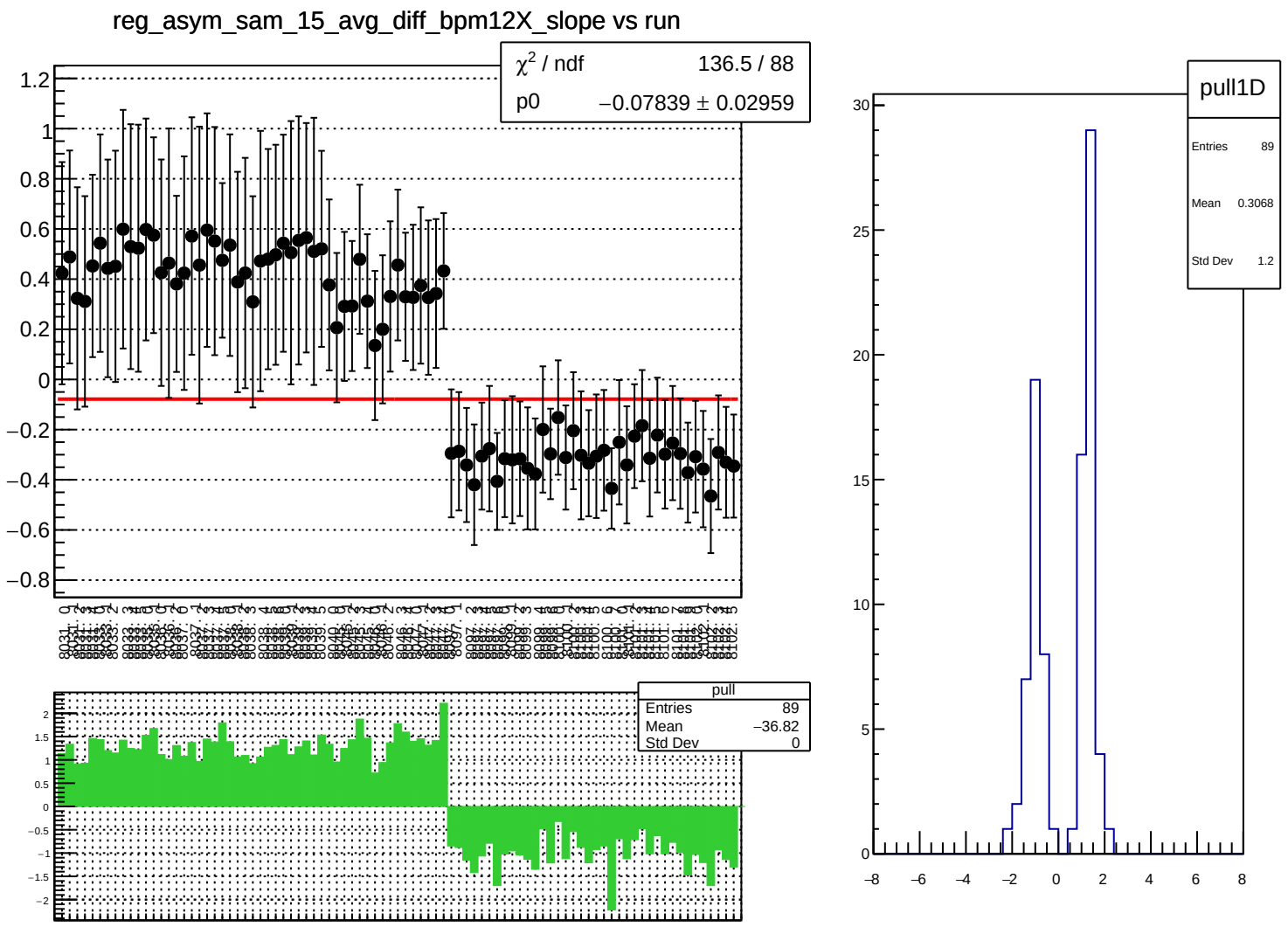

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 30.72 / 88
p0 20.24 ± 0.5854
pull
Entries 89
Mean −1430
Std Dev 0

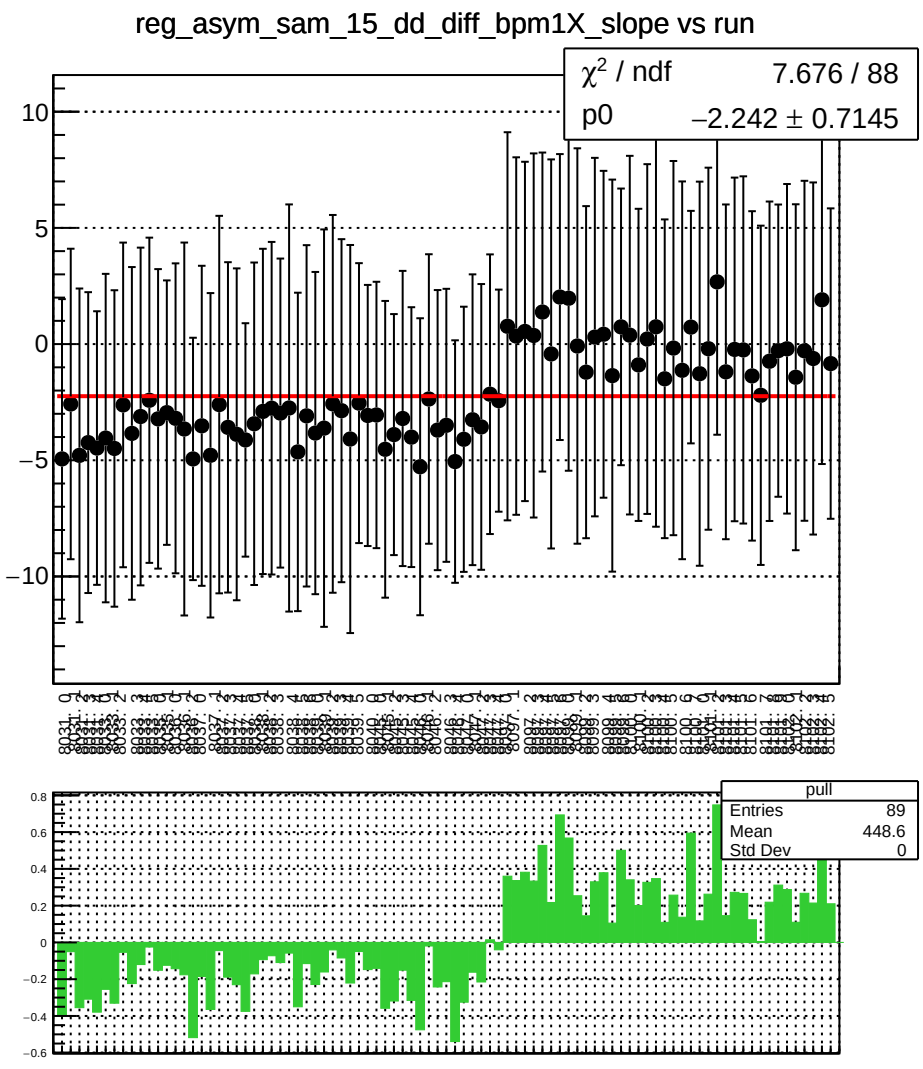

pull1D
Entries 89
Mean −0.005431
Std Dev 0.5875

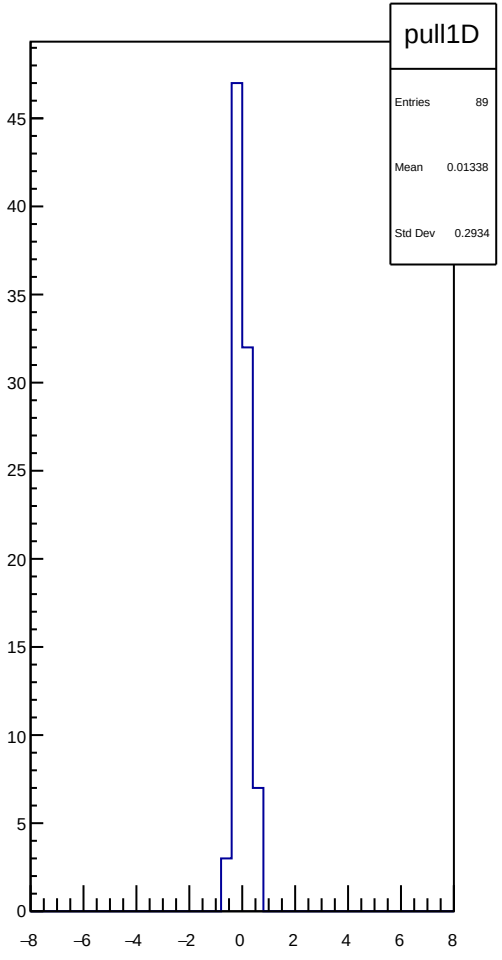

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 58.32 / 88
p0 −0.2593 ± 0.3748
pull
Entries 89
Mean −1.708e+04
Std Dev 0
pull1D
Entries 89
Mean −0.000777
Std Dev 0.8095

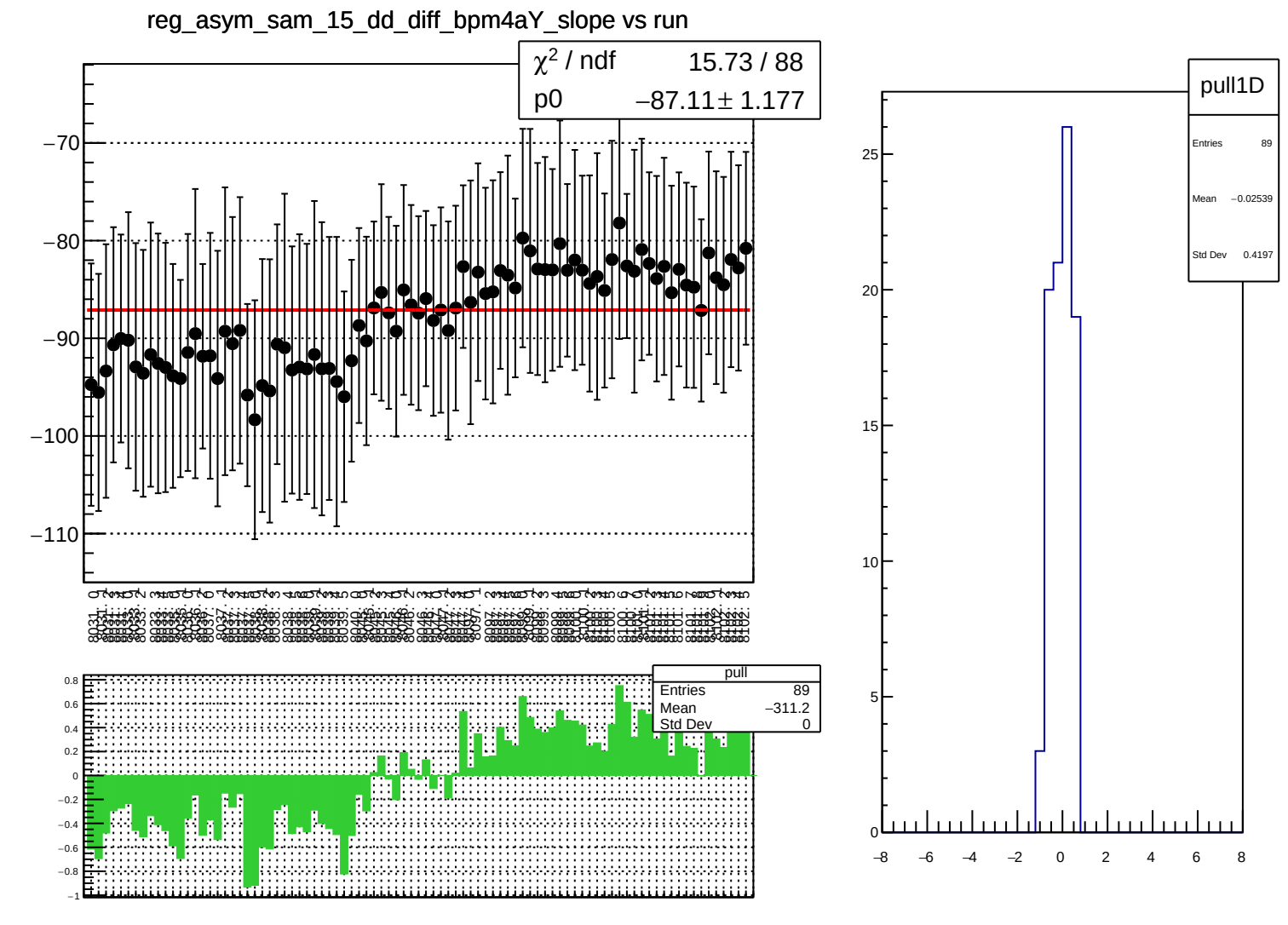

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 26.21 / 88
p0 31.82 ± 0.6222
pull
Entries 89
Mean −683.8
Std Dev 0

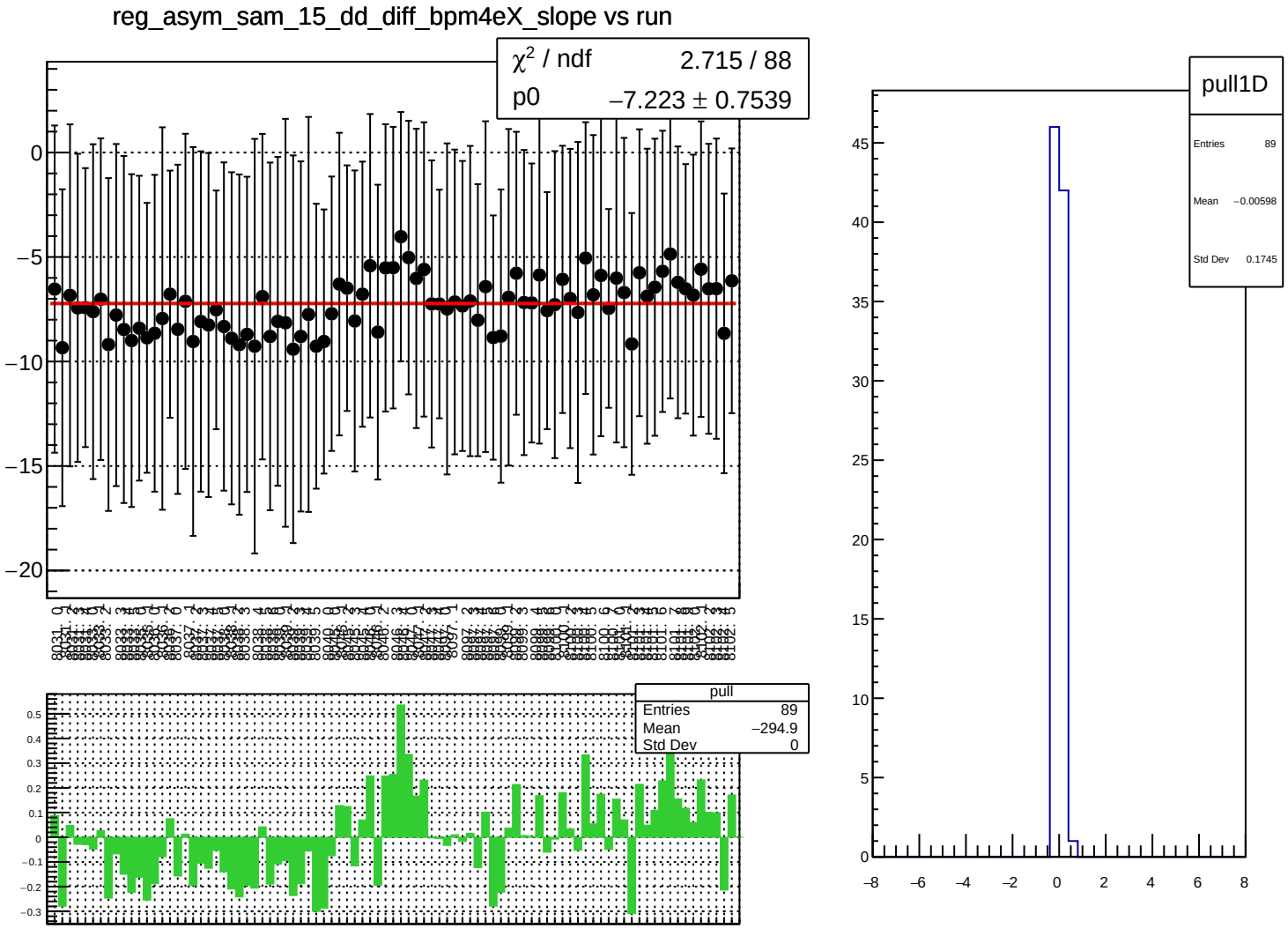

pull1D
Entries 89
Mean 0.01025
Std Dev 0.5426

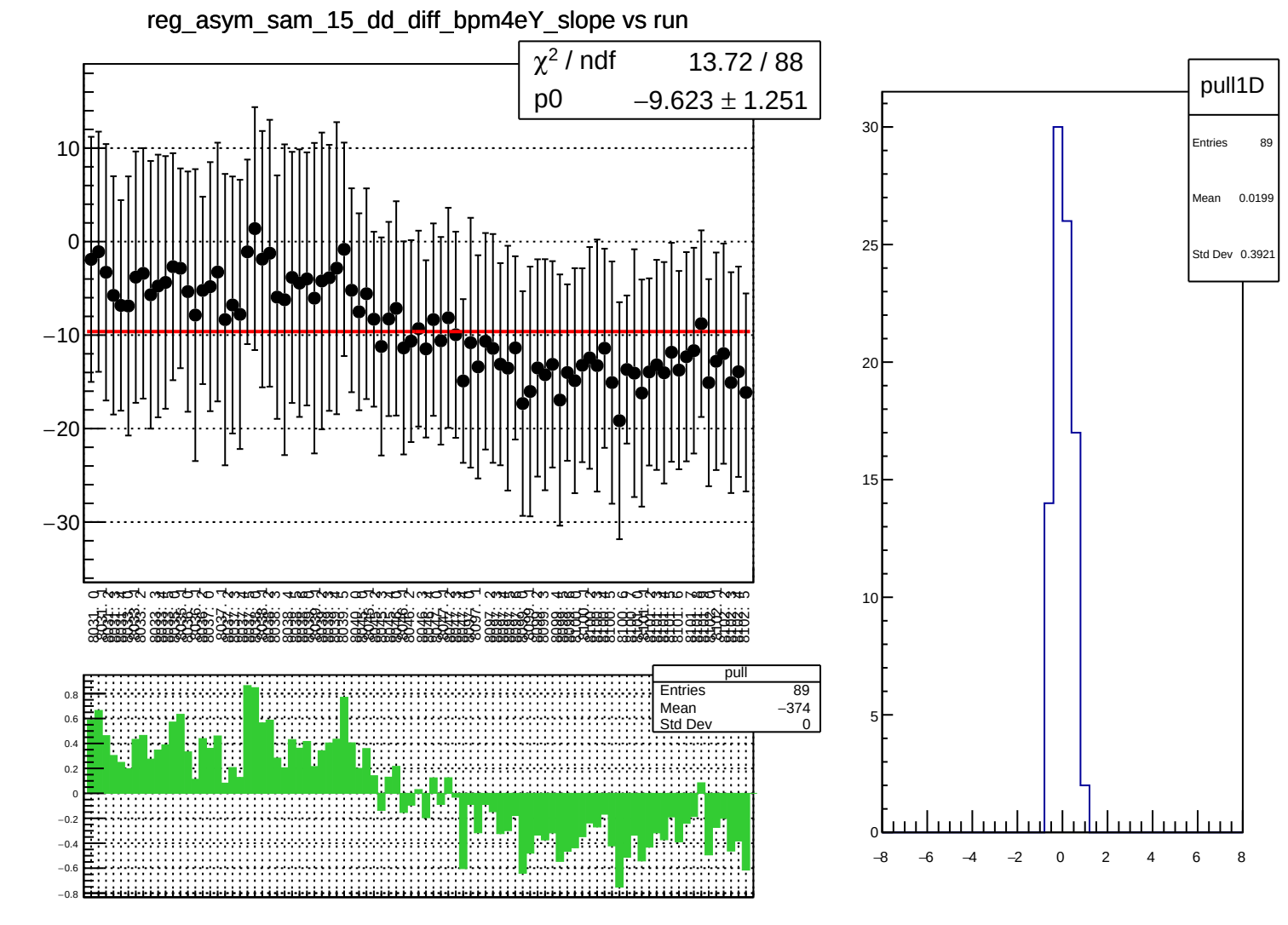

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 136.5 / 88
p0 −0.07839 ± 0.02959
pull
Entries 89
Mean −36.82
Std Dev 0
pull1D
Entries 89
Mean 0.3068
Std Dev 1.2

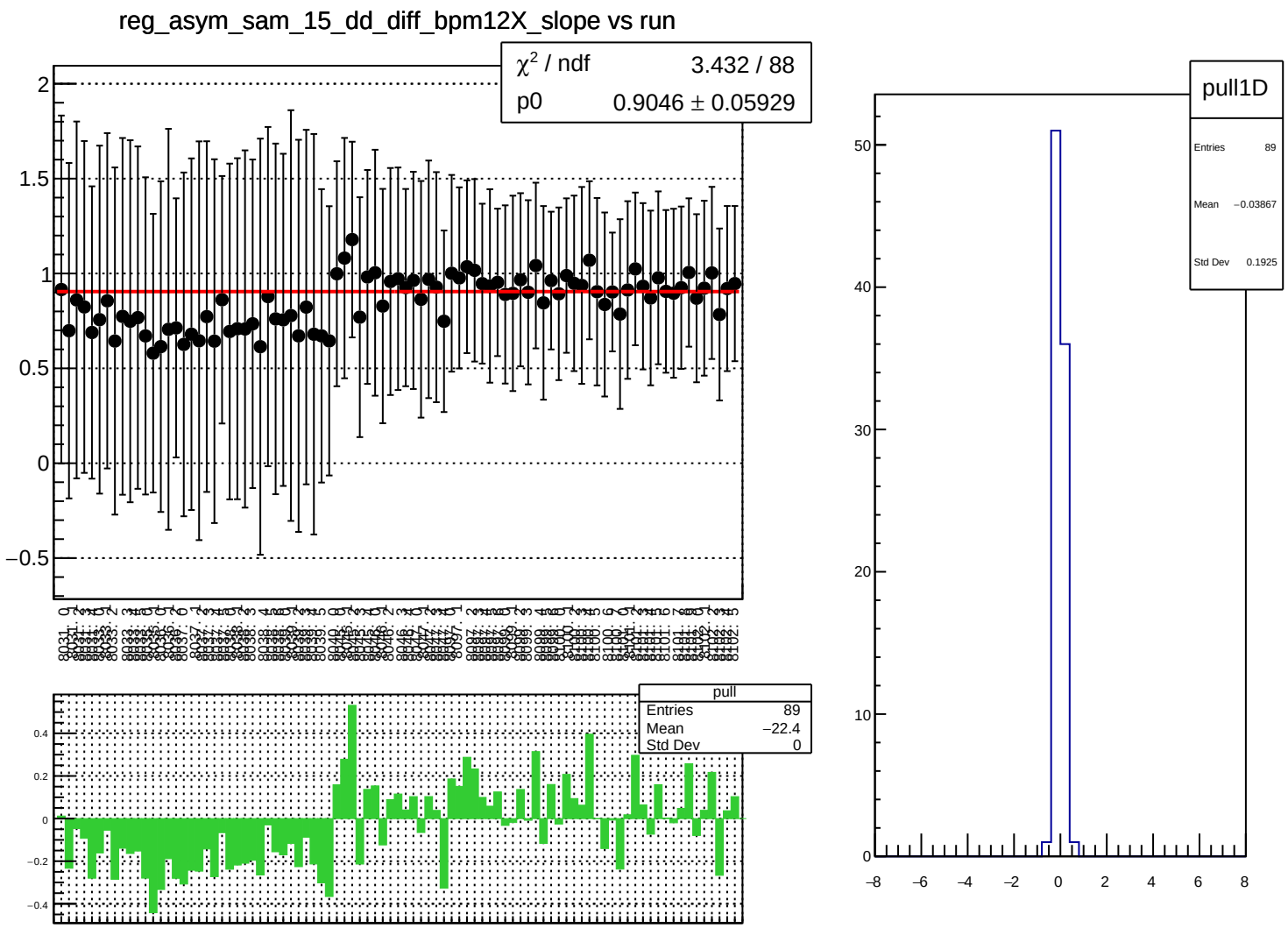

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 7.676 / 88
p0 −2.242 ± 0.7145
pull
Entries 89
Mean 448.6
Std Dev 0

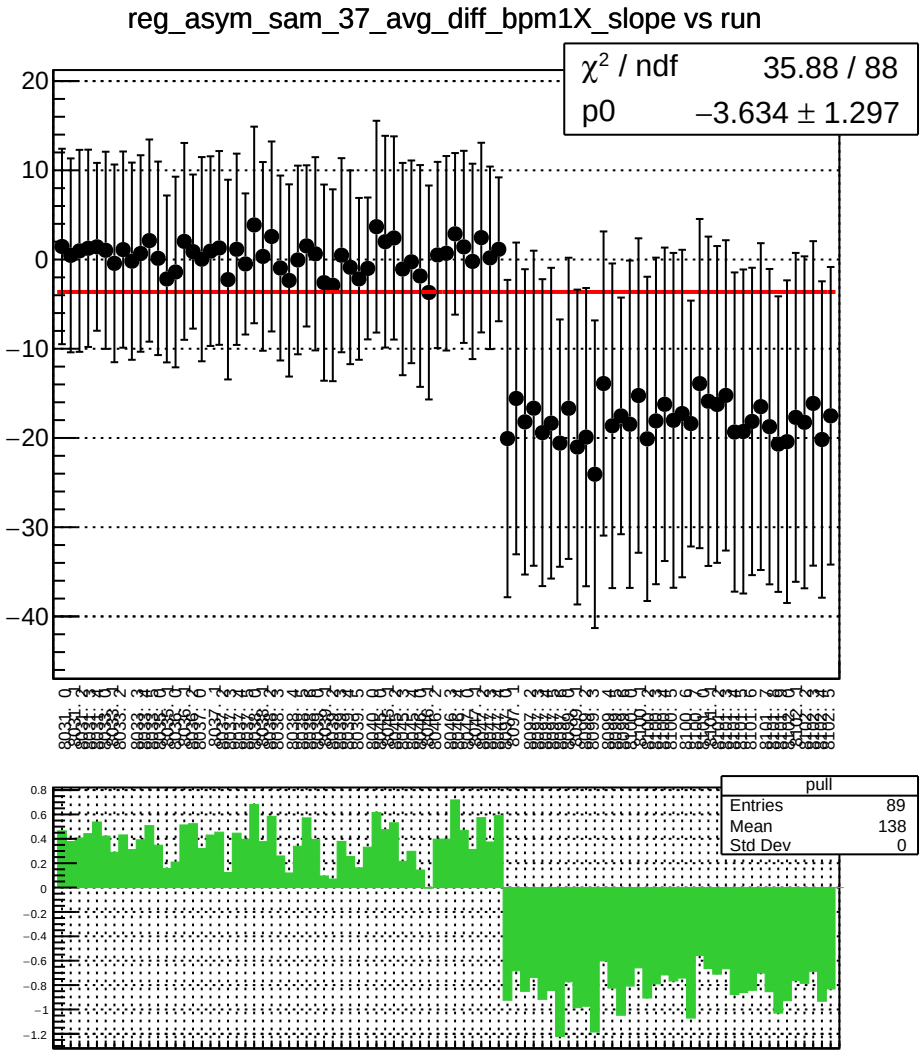

pull1D
Entries 89
Mean 0.01338
Std Dev 0.2934

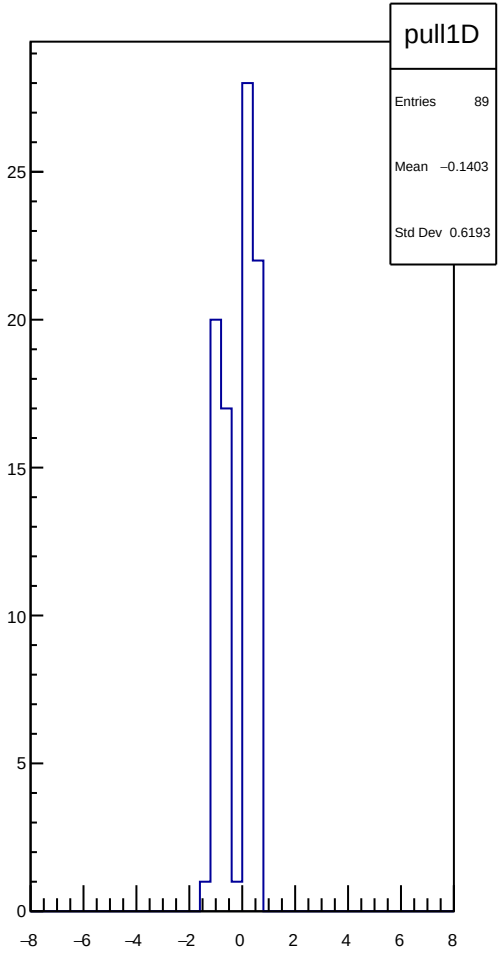

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.73 / 88
p0 −87.11 ± 1.177
−70
−80
−90
−100
−110
pull
Entries 89
Mean −311.2
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 89
Mean −0.02539
Std Dev 0.4197
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

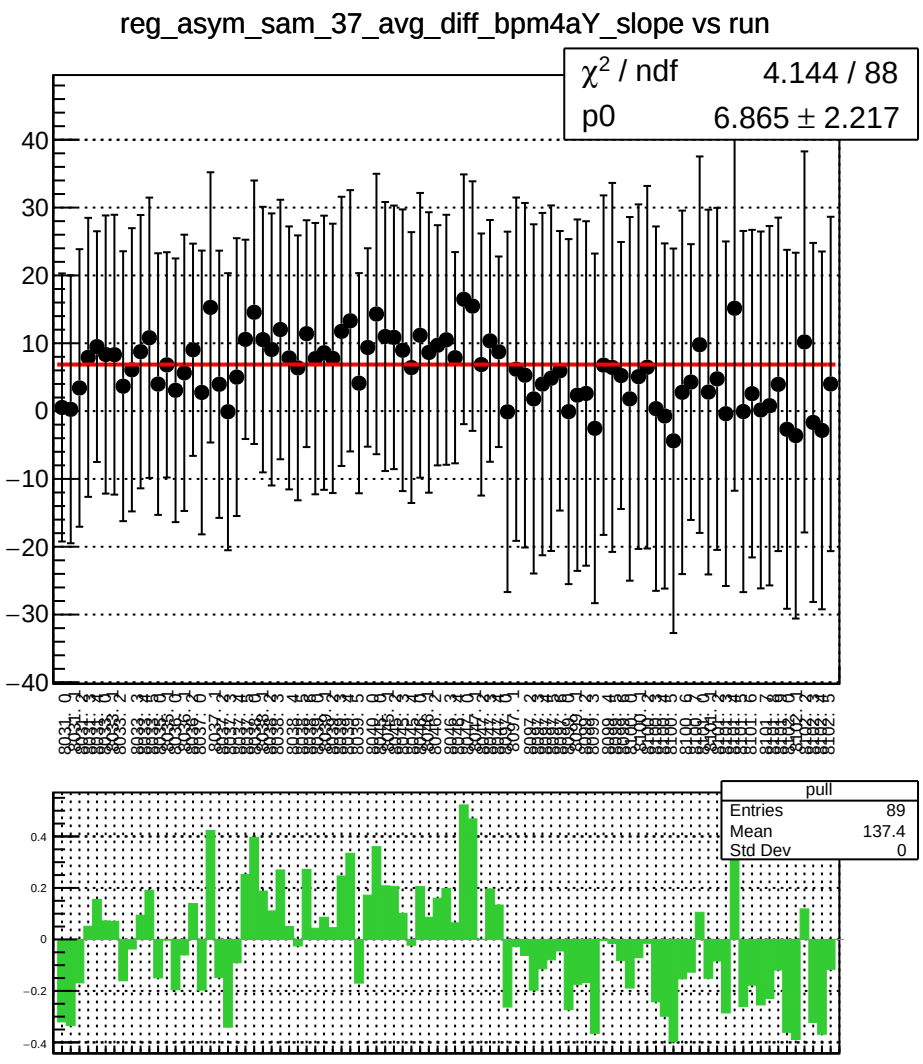

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.715 / 88
p0 −7.223 ± 0.7539
pull
Entries 89
Mean −294.9
Std Dev 0
pull1D
Entries 89
Mean −0.00598
Std Dev 0.1745

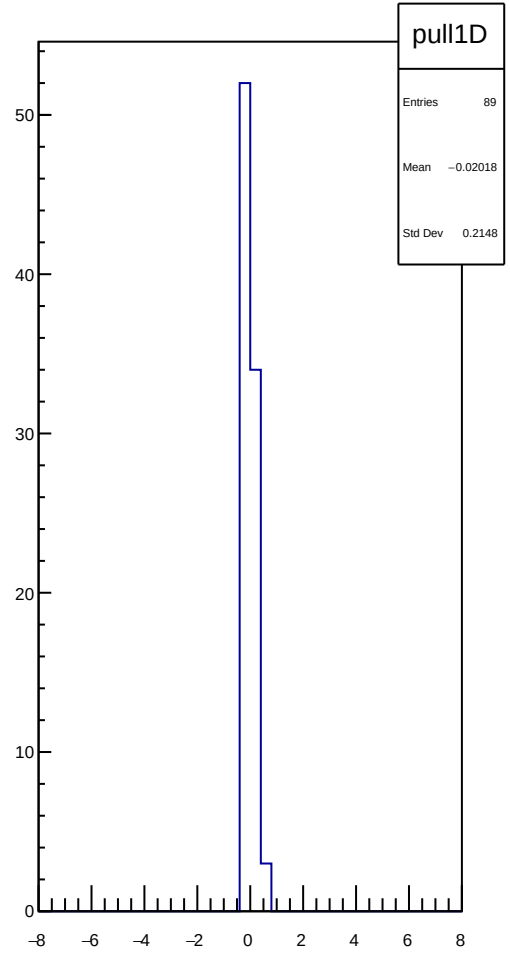

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.72 / 88
p0 −9.623 ± 1.251
pull
Entries 89
Mean −374
Std Dev 0
pull1D
Entries 89
Mean 0.0199
Std Dev 0.3921

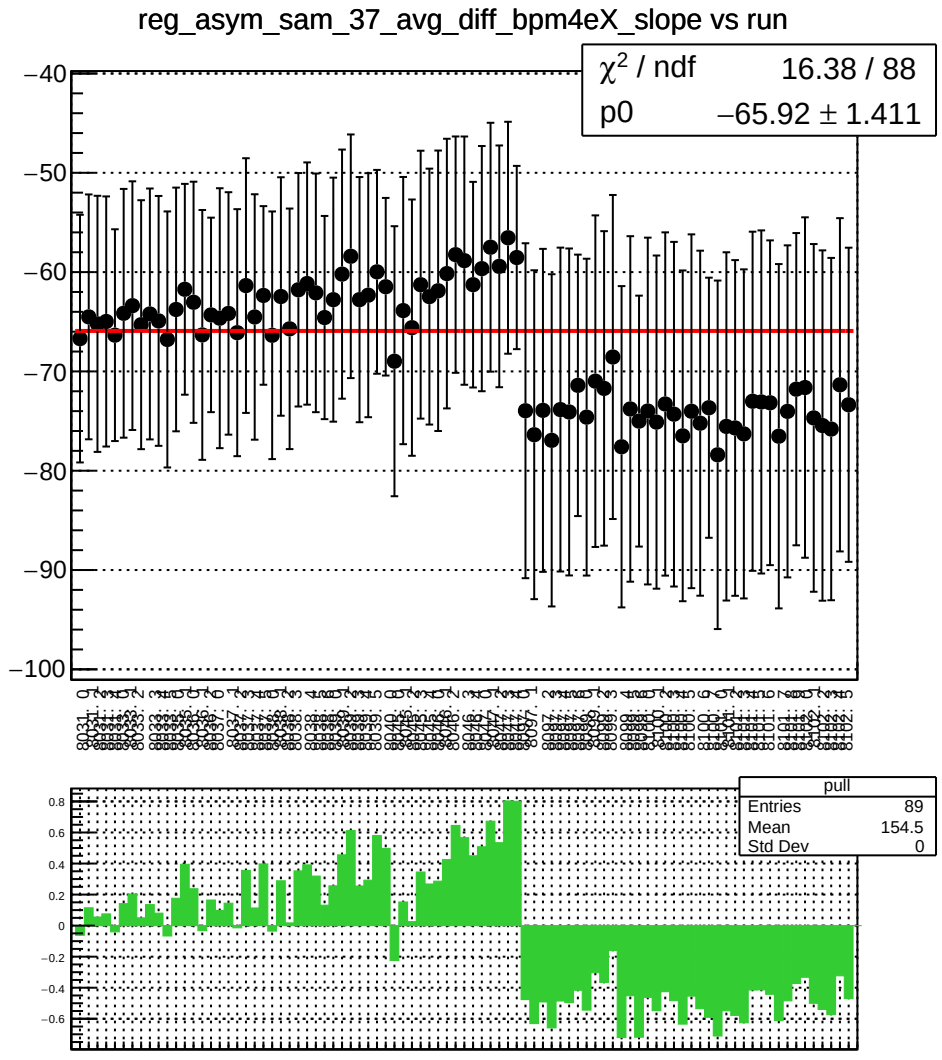

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 3.432 / 88
p0 0.9046 ± 0.05929
pull
Entries 89
Mean −22.4
Std Dev 0
pull1D
Entries 89
Mean −0.03867
Std Dev 0.1925

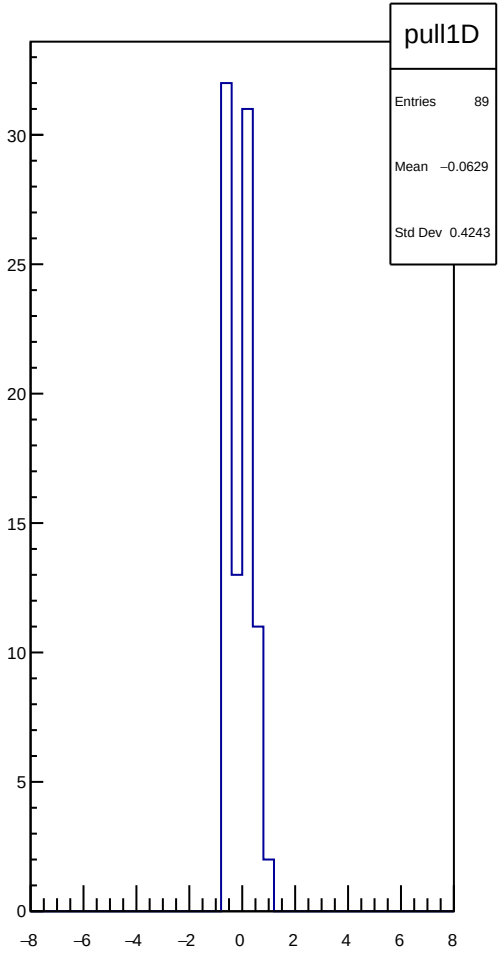

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 35.88 / 88
p0 −3.634 ± 1.297
pull
Entries 89
Mean 138
Std Dev 0

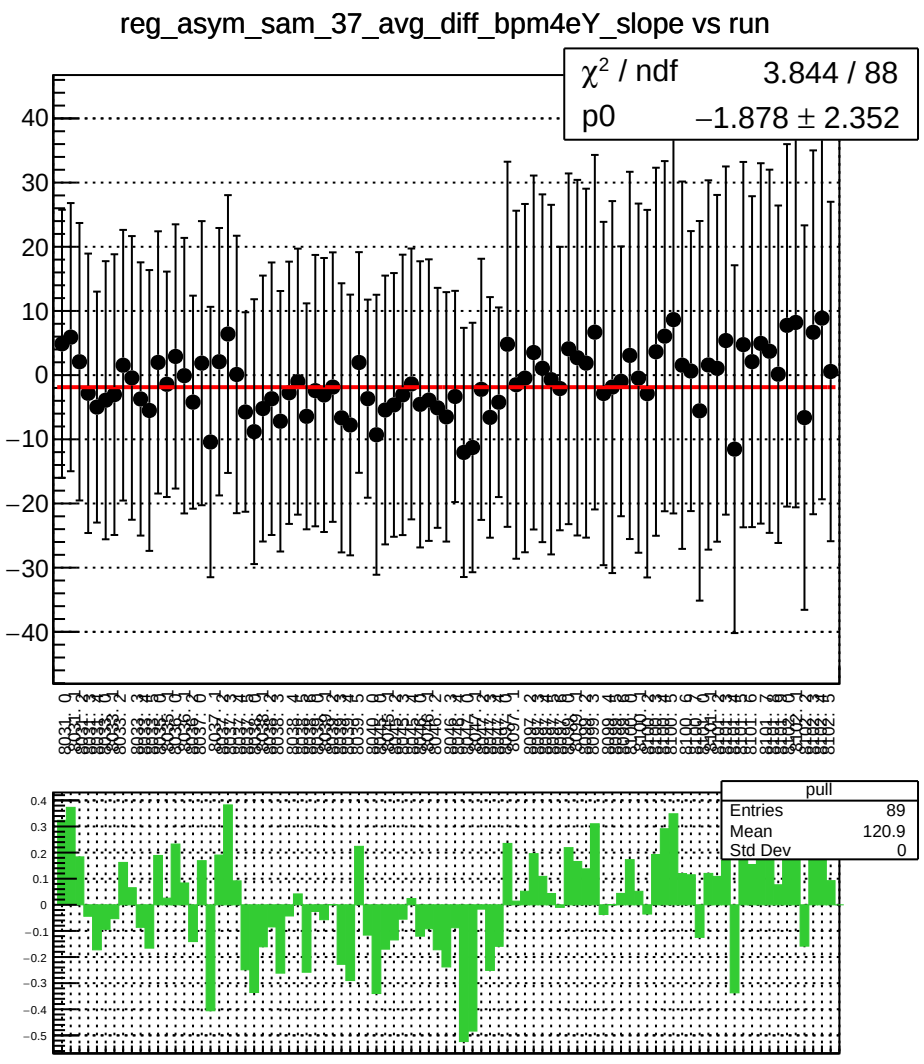

pull1D
Entries 89
Mean −0.1403
Std Dev 0.6193

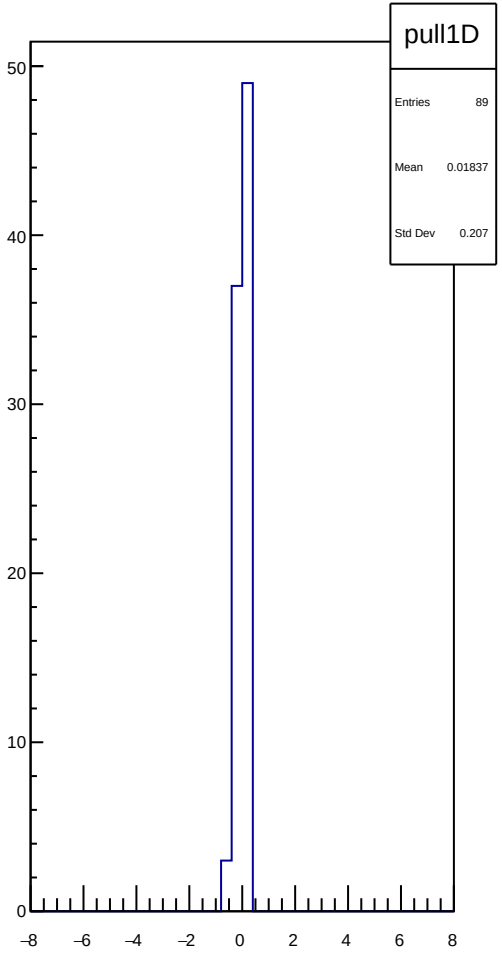

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.144 / 88
p0 6.865 ± 2.217
pull
Entries 89
Mean 137.4
Std Dev 0

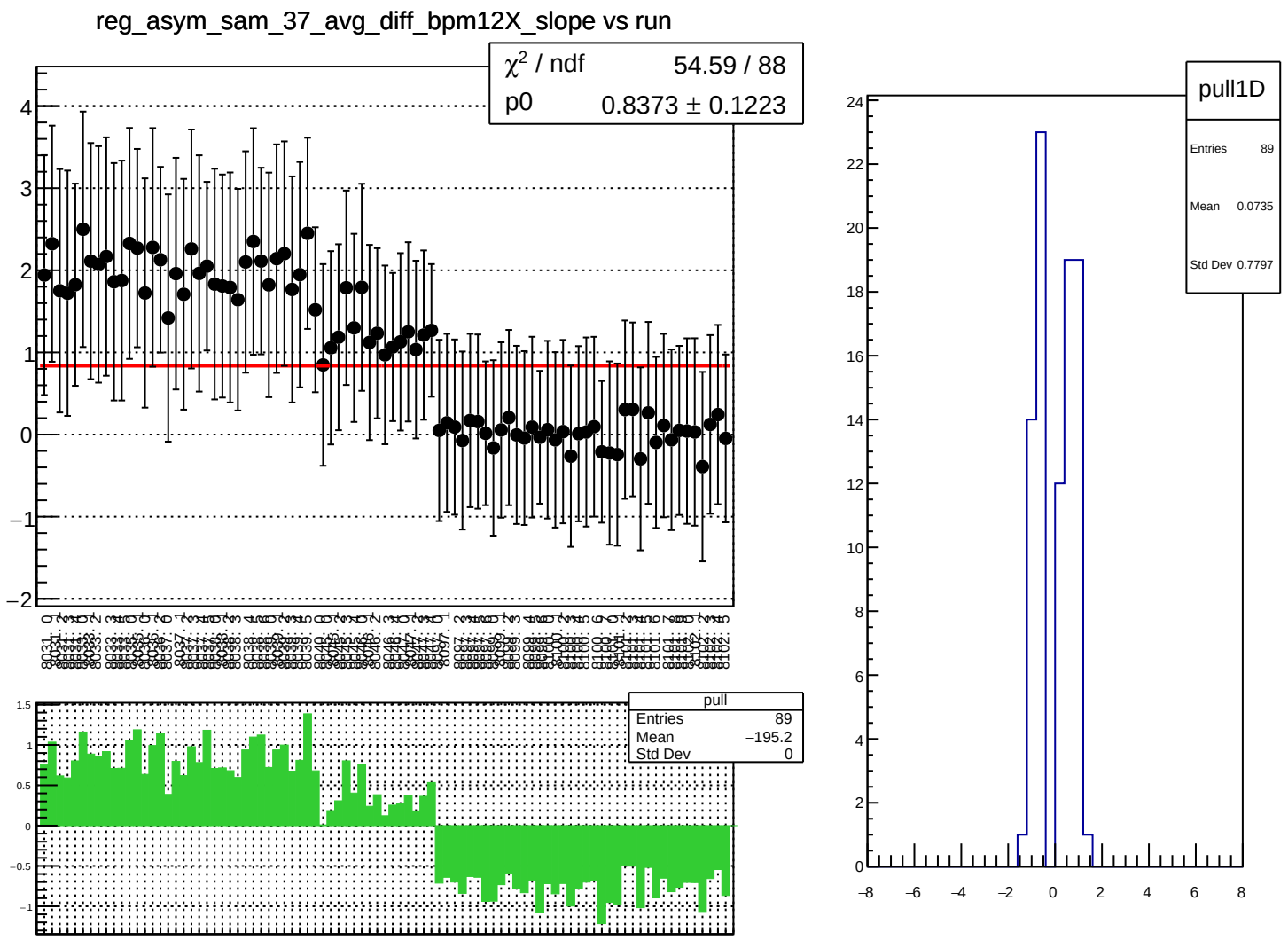

pull1D
Entries 89
Mean −0.02018
Std Dev 0.2148

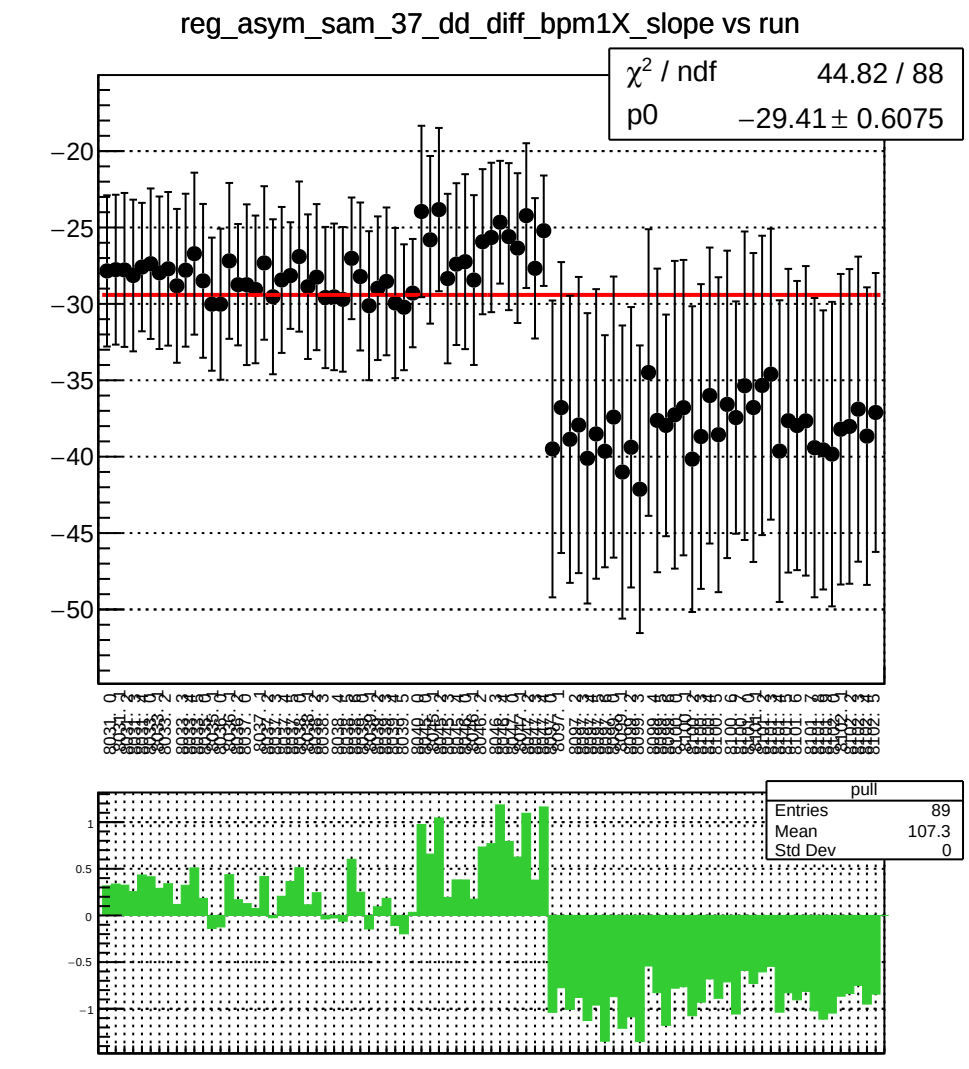

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 16.38 / 88
p0 −65.92 ± 1.411
pull
Entries 89
Mean 154.5
Std Dev 0

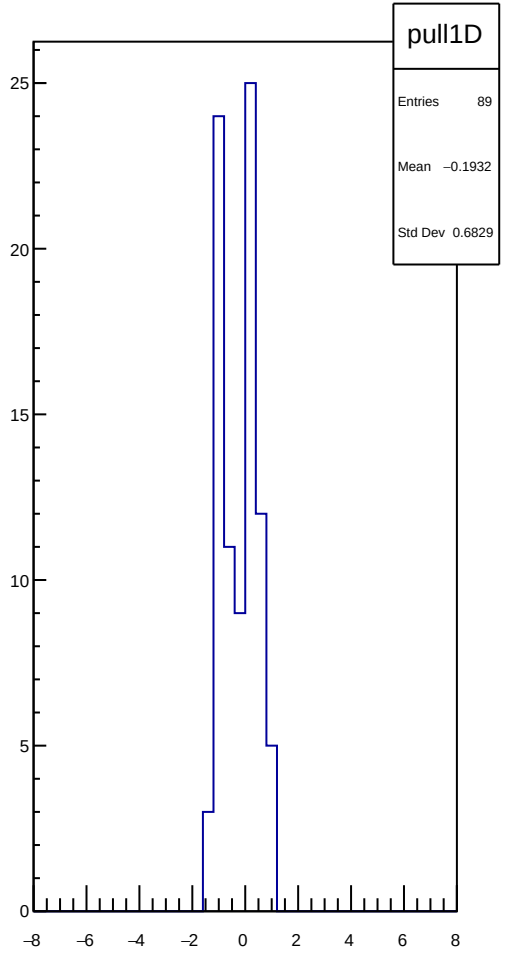

pull1D
Entries 89
Mean −0.0629
Std Dev 0.4243

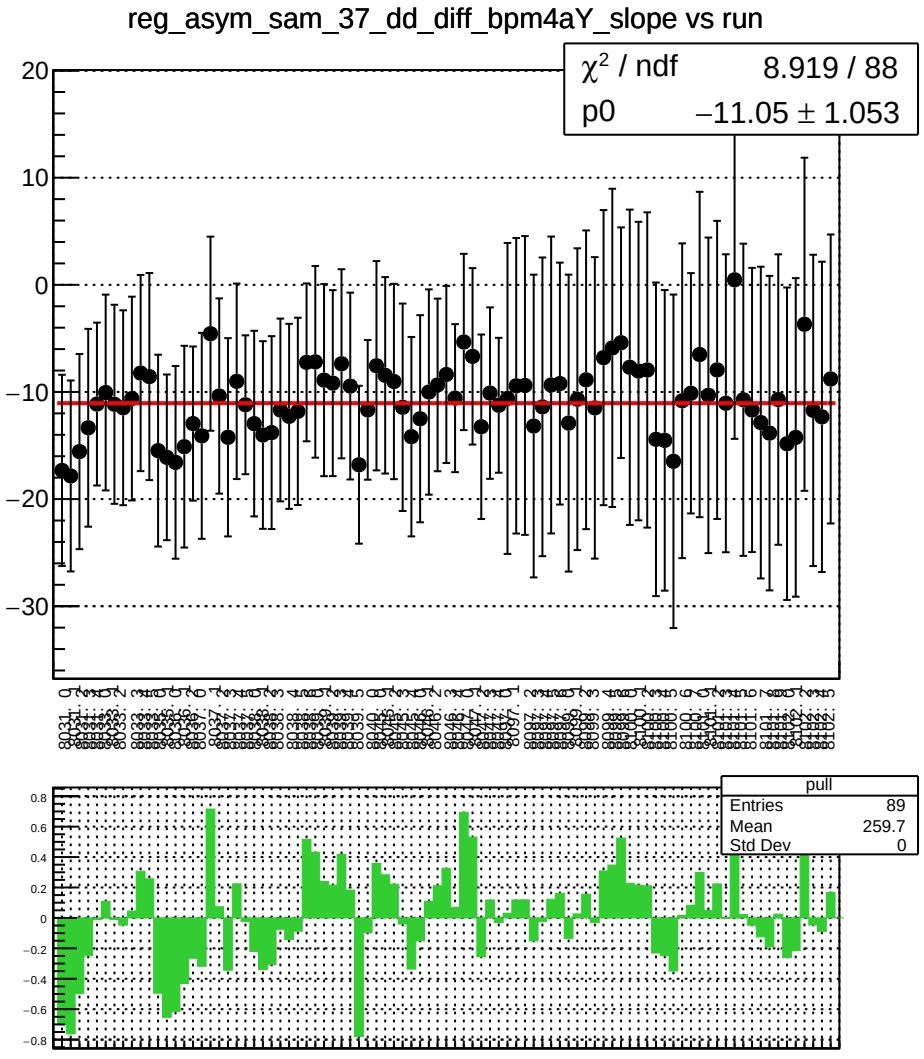

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.844 / 88
p0 −1.878 ± 2.352
pull
Entries 89
Mean 120.9
Std Dev 0

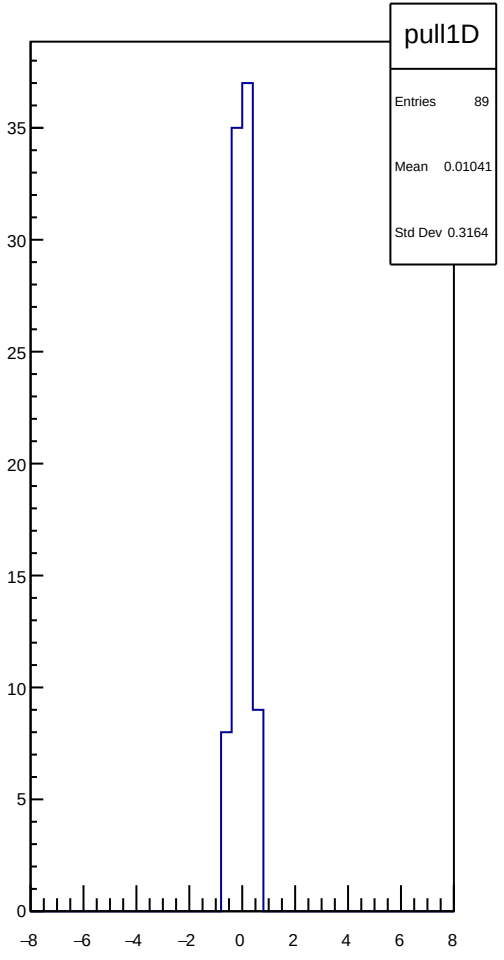

pull1D
Entries 89
Mean 0.01837
Std Dev 0.207

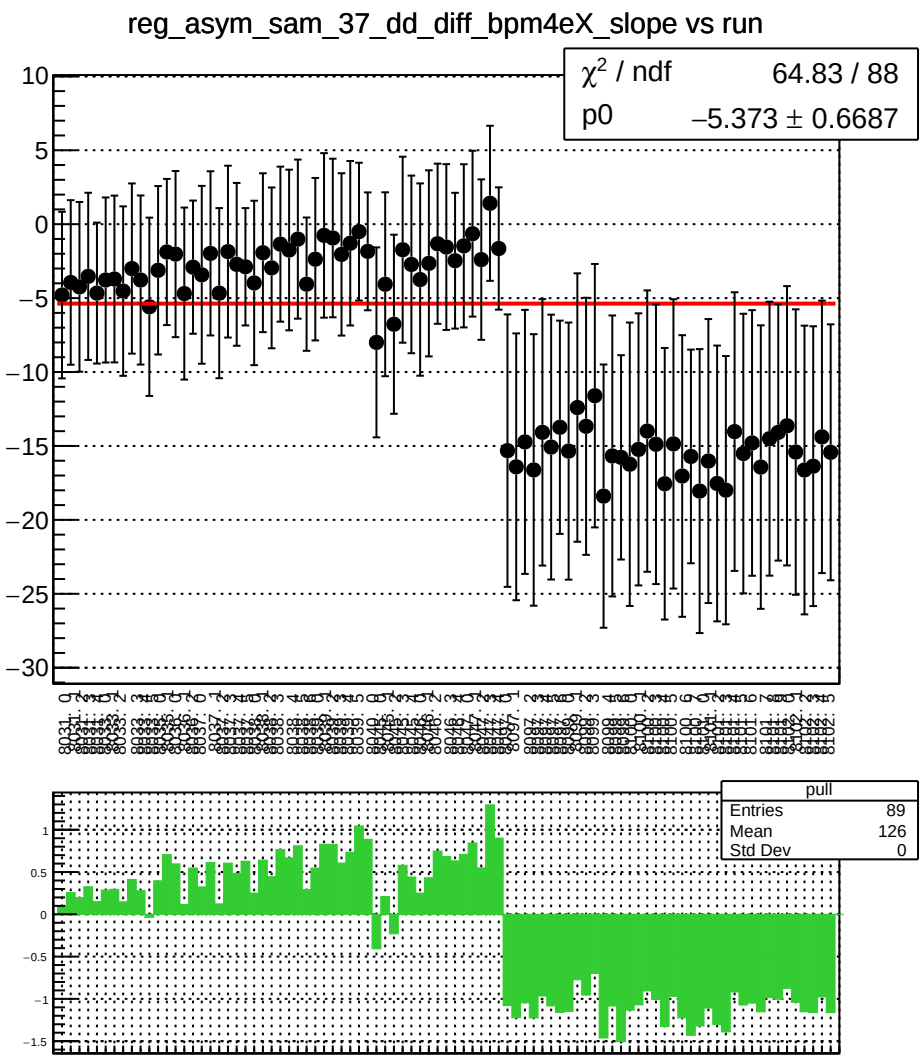

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 54.59 / 88
p0 0.8373 ± 0.1223
pull
Entries 89
Mean −195.2
Std Dev 0
pull1D
Entries 89
Mean 0.0735
Std Dev 0.7797

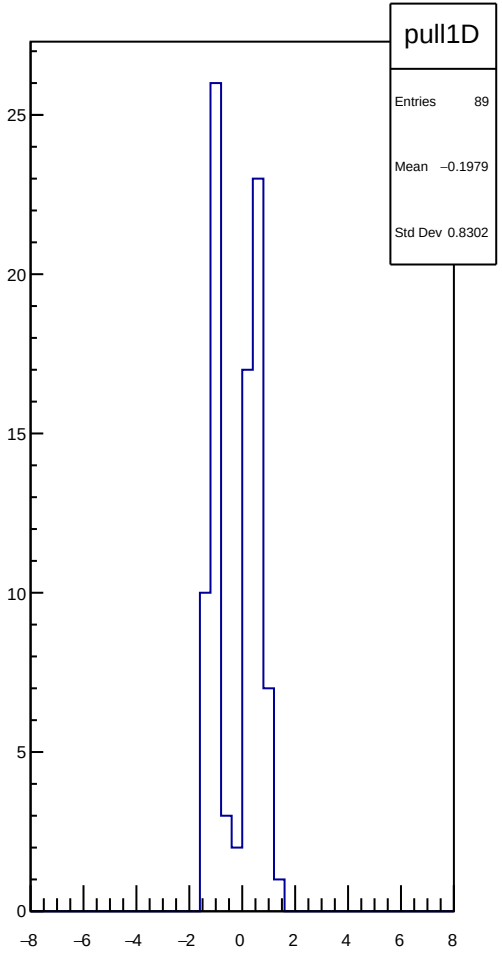

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 44.82 / 88
p0 −29.41 ± 0.6075
pull
Entries 89
Mean 107.3
Std Dev 0

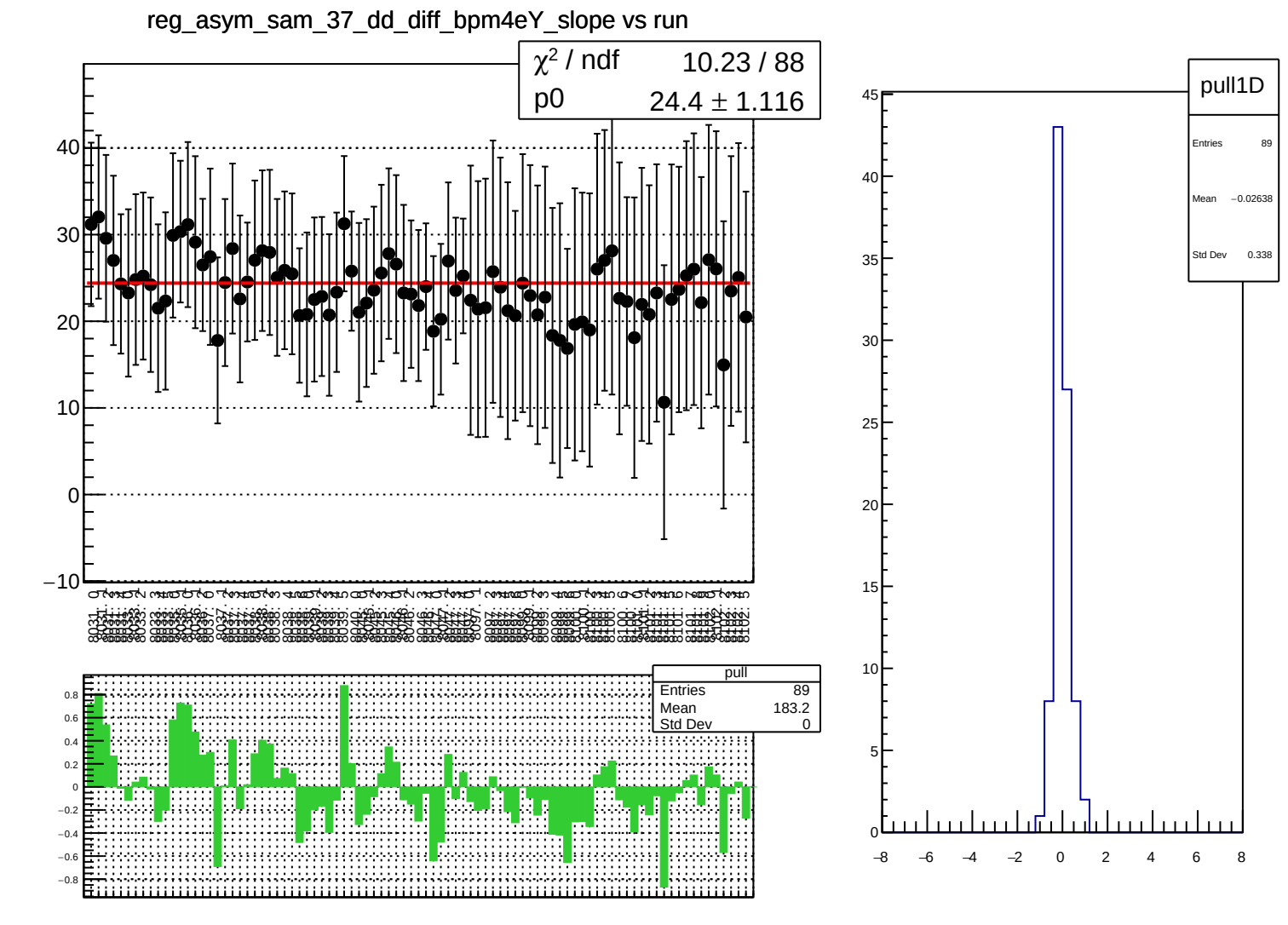

pull1D
Entries 89
Mean −0.1932
Std Dev 0.6829

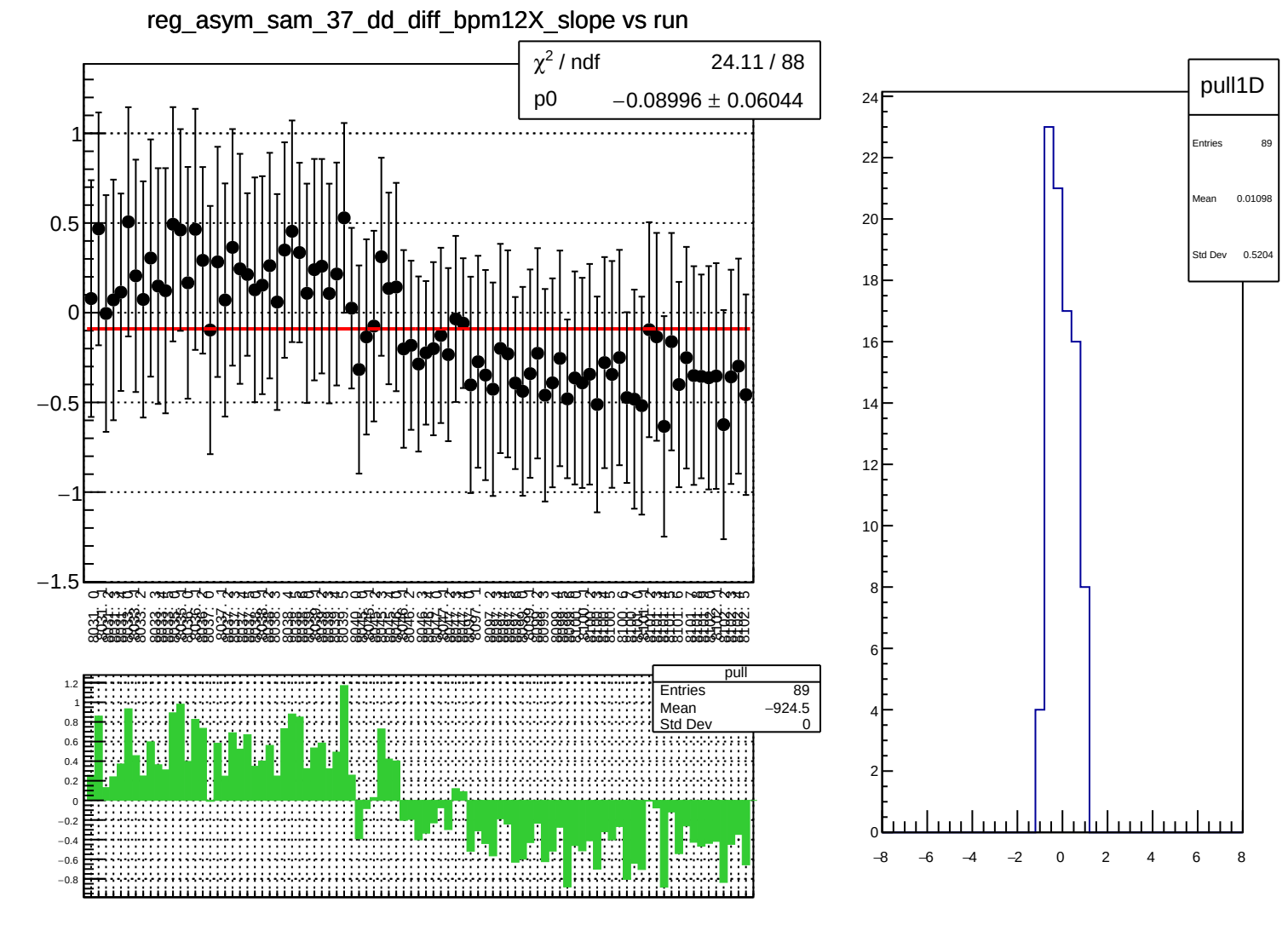

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.919 / 88
p0 −11.05 ± 1.053
pull
Entries 89
Mean 259.7
Std Dev 0

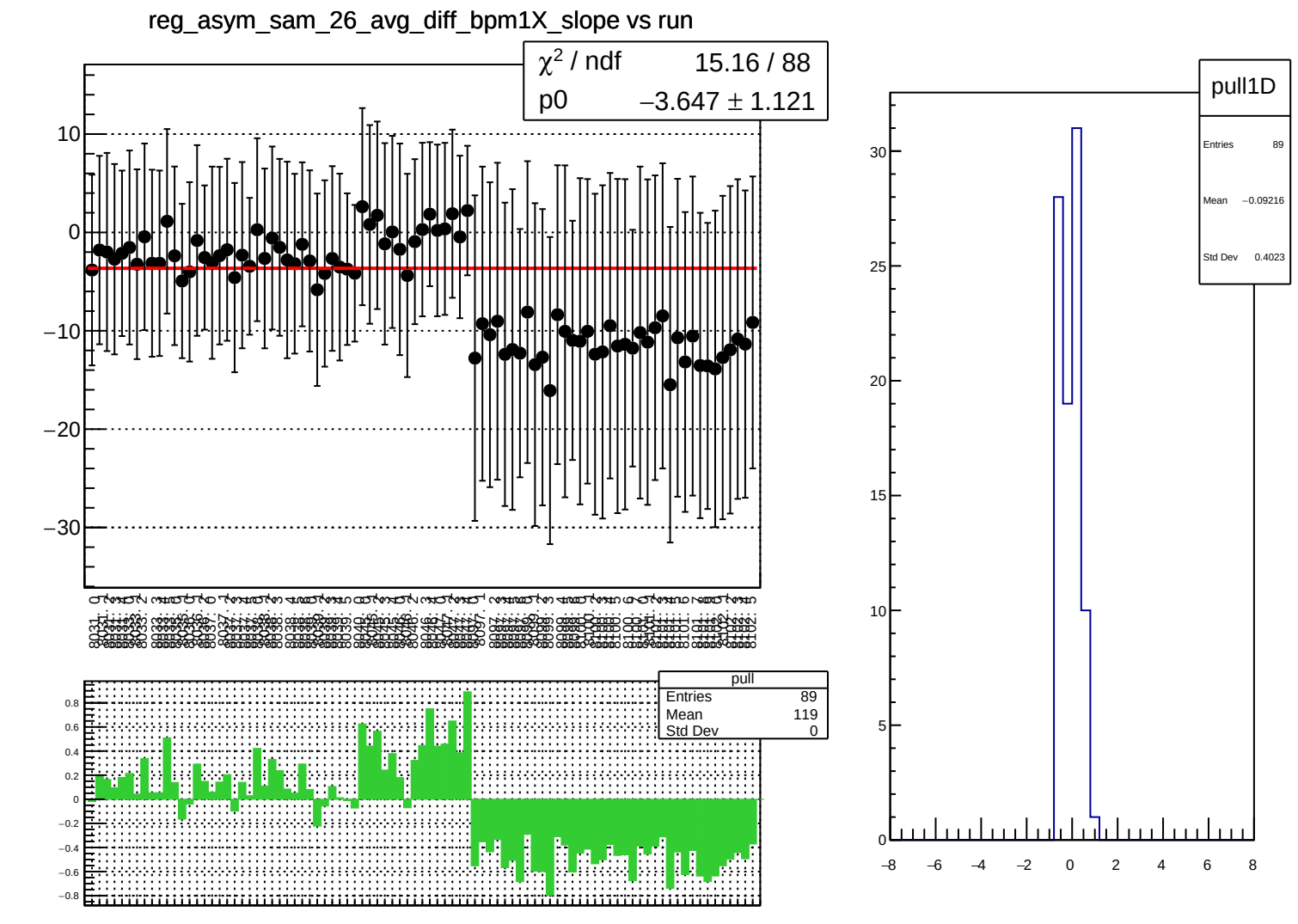

pull1D
Entries 89
Mean 0.01041
Std Dev 0.3164

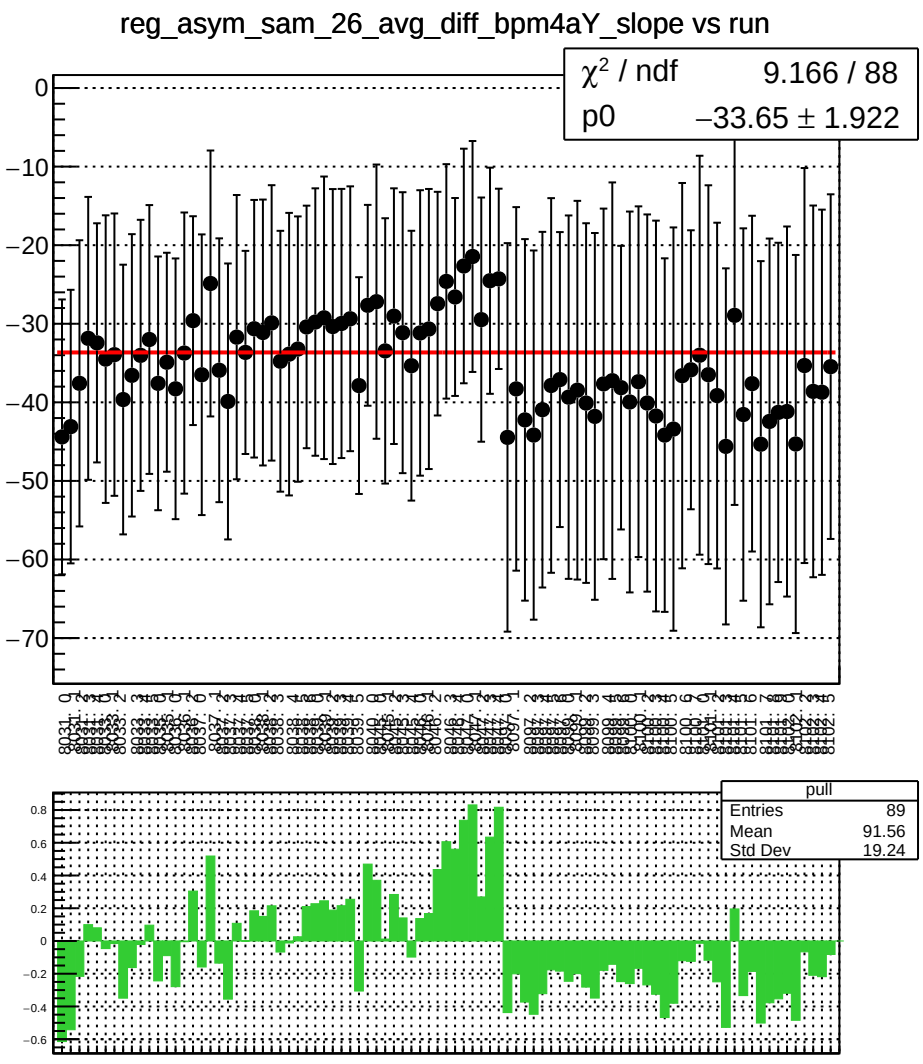

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 64.83 / 88
p0 −5.373 ± 0.6687
pull
Entries 89
Mean 126
Std Dev 0

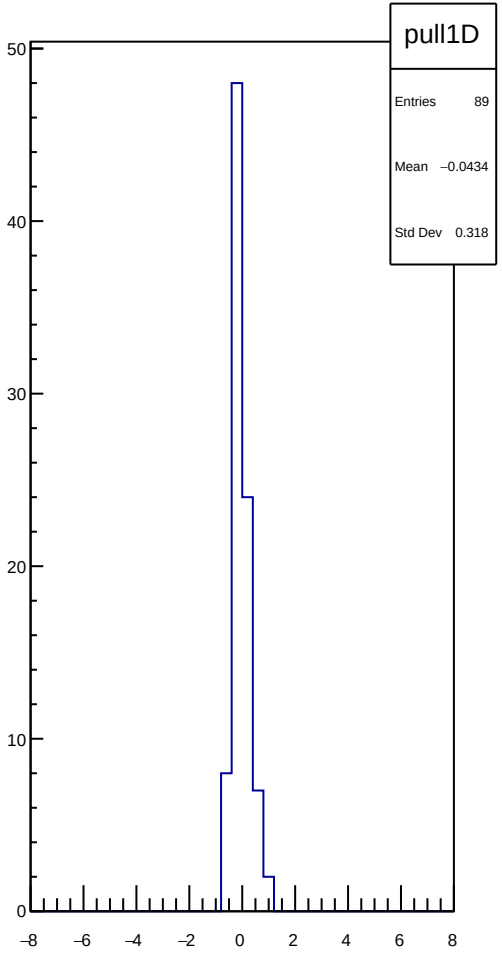

pull1D
Entries 89
Mean −0.1979
Std Dev 0.8302

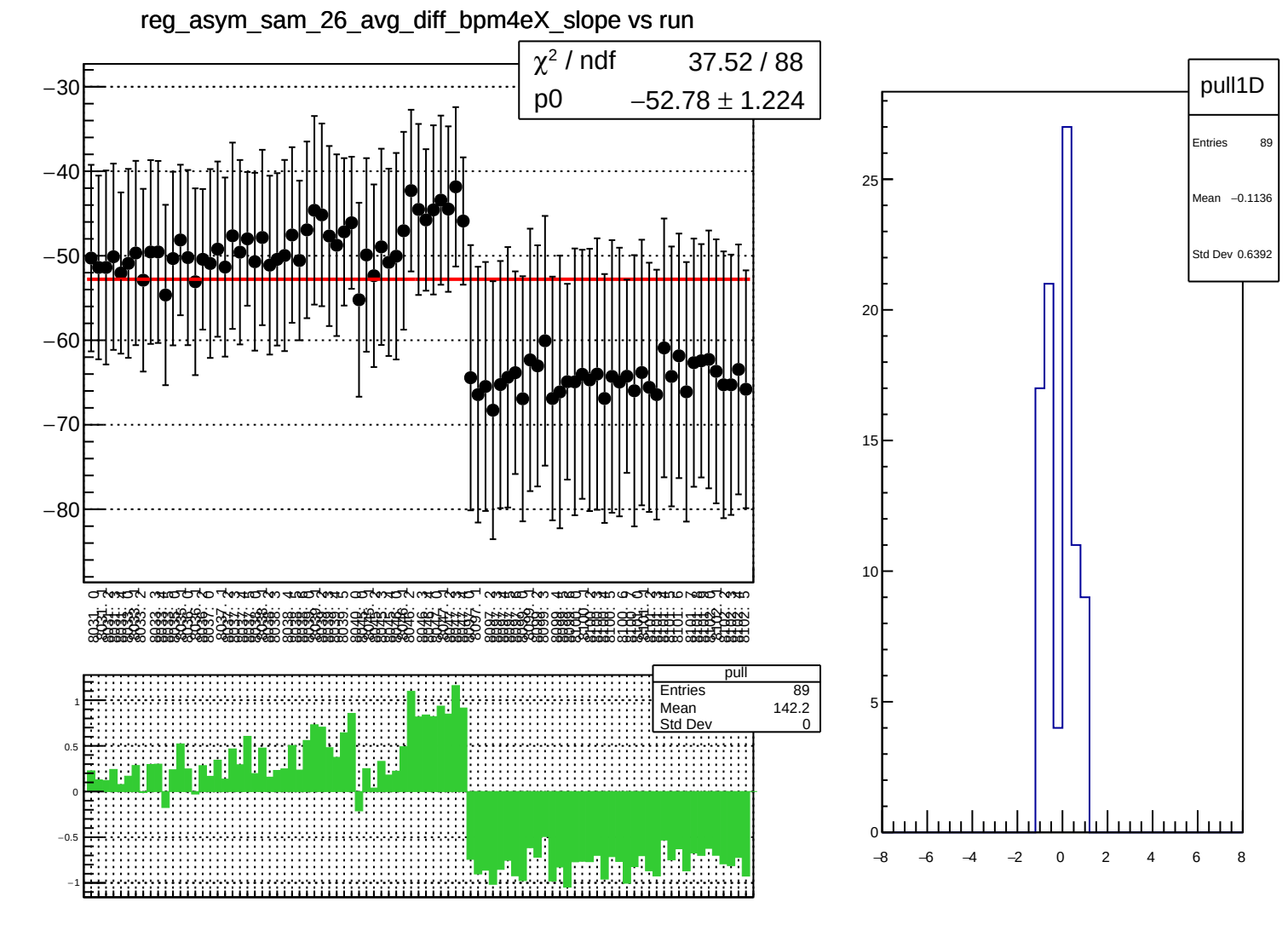

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.23 / 88
p0 24.4 ± 1.116
pull
Entries 89
Mean 183.2
Std Dev 0
pull1D
Entries 89
Mean −0.02638
Std Dev 0.338

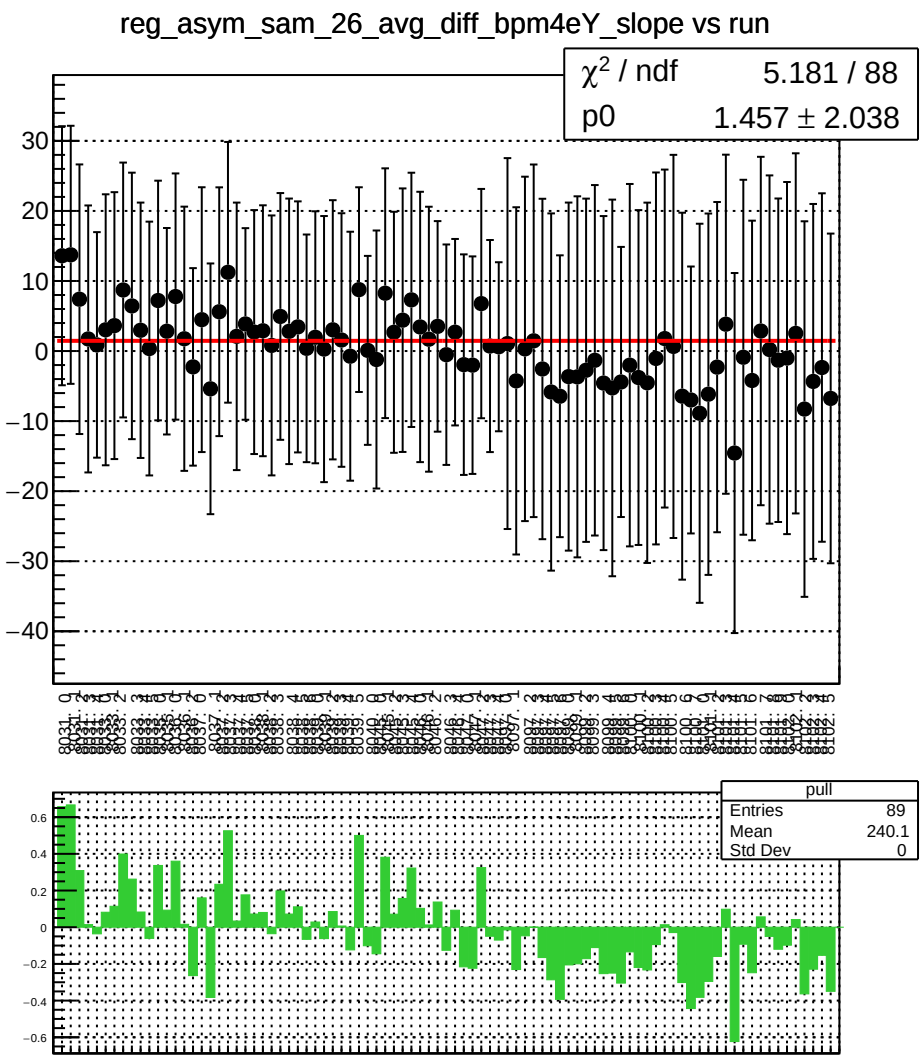

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 24.11 / 88
p0 −0.08996 ± 0.06044
pull
Entries 89
Mean −924.5
Std Dev 0
pull1D
Entries 89
Mean 0.01098
Std Dev 0.5204

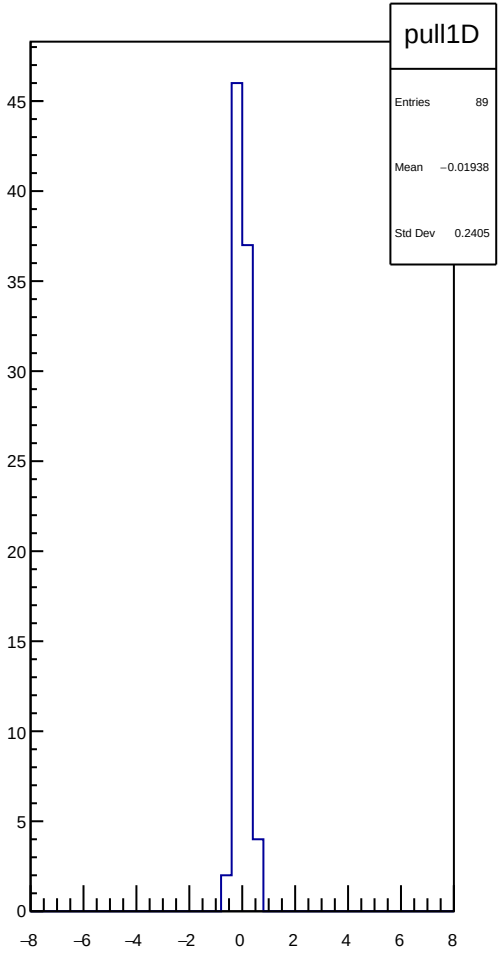

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 15.16 / 88
p0 −3.647 ± 1.121
10
0
−10
−20
−30
pull
Entries 89
Mean 119
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 89
Mean −0.09216
Std Dev 0.4023
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

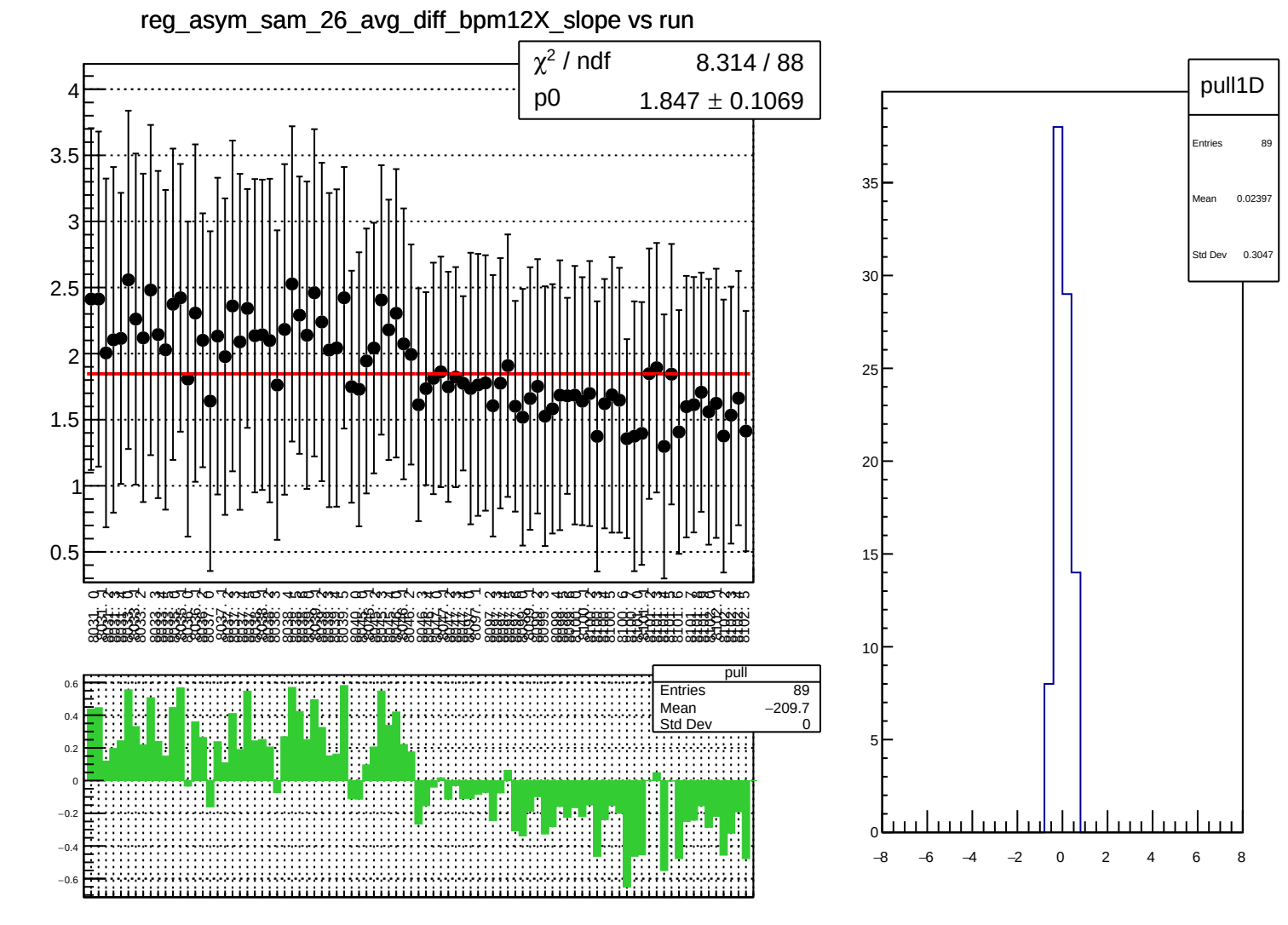

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.166 / 88
p0 −33.65 ± 1.922
pull
Entries 89
Mean 91.56
Std Dev 19.24

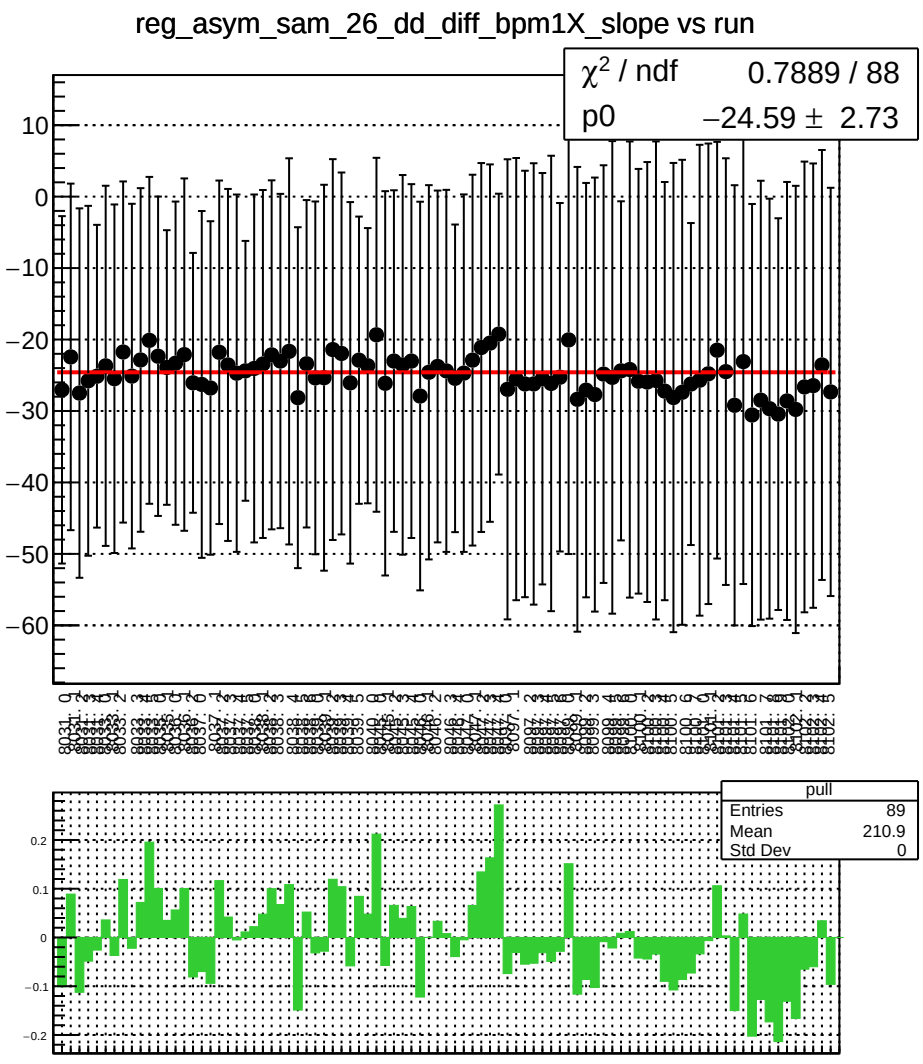

pull1D
Entries 89
Mean −0.0434
Std Dev 0.318

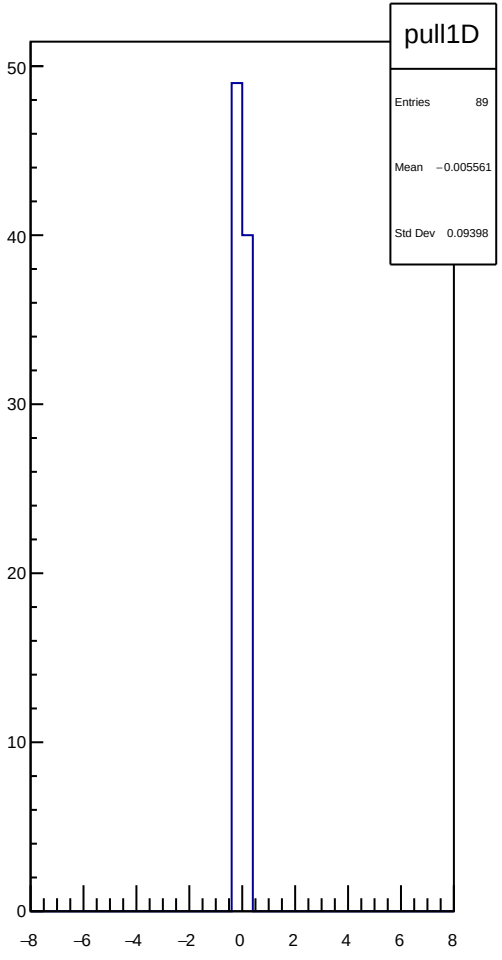

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 37.52 / 88
p0 −52.78 ± 1.224
pull
Entries 89
Mean 142.2
Std Dev 0
pull1D
Entries 89
Mean −0.1136
Std Dev 0.6392

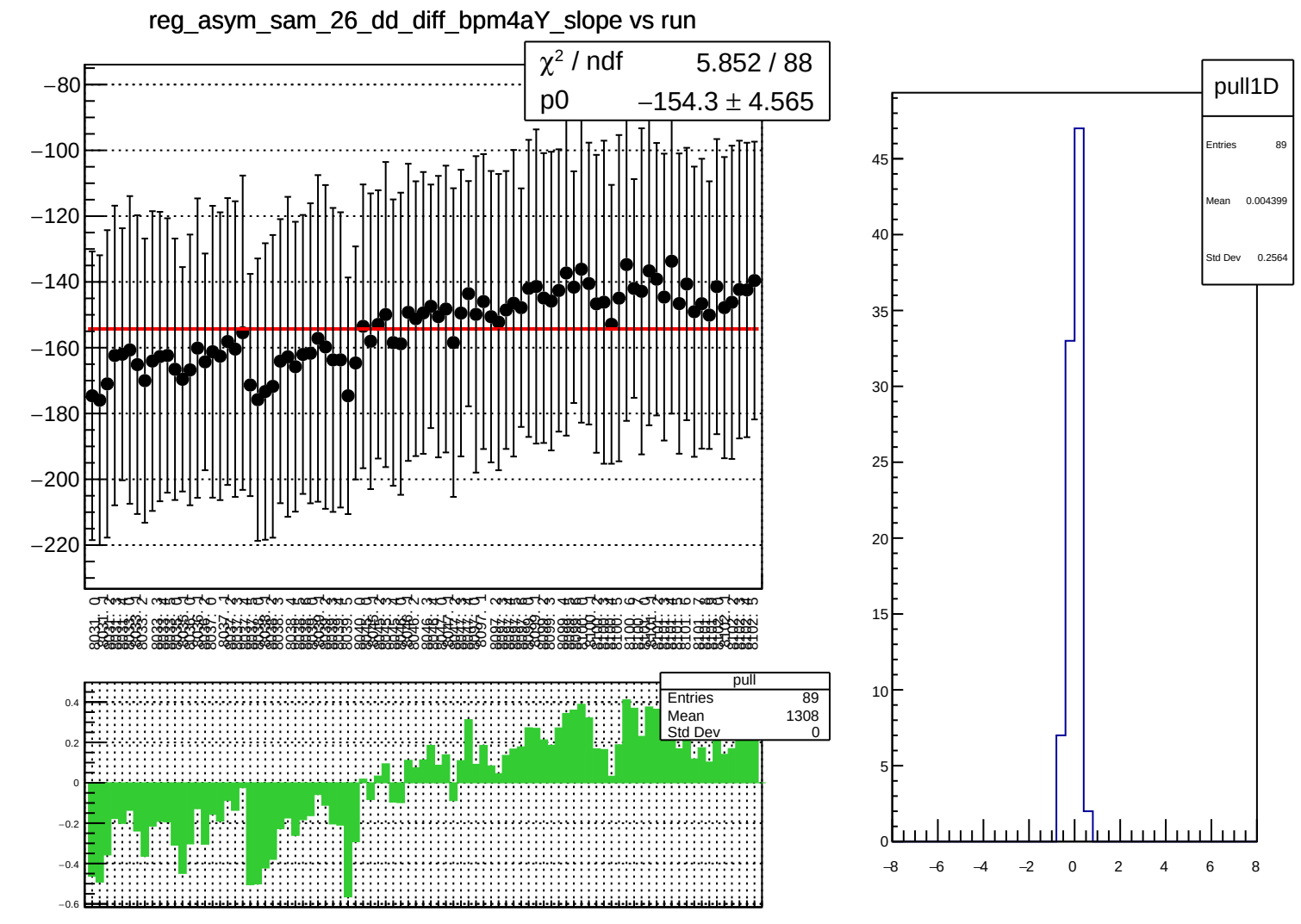

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.181 / 88
p0 1.457 ± 2.038
pull
Entries 89
Mean 240.1
Std Dev 0

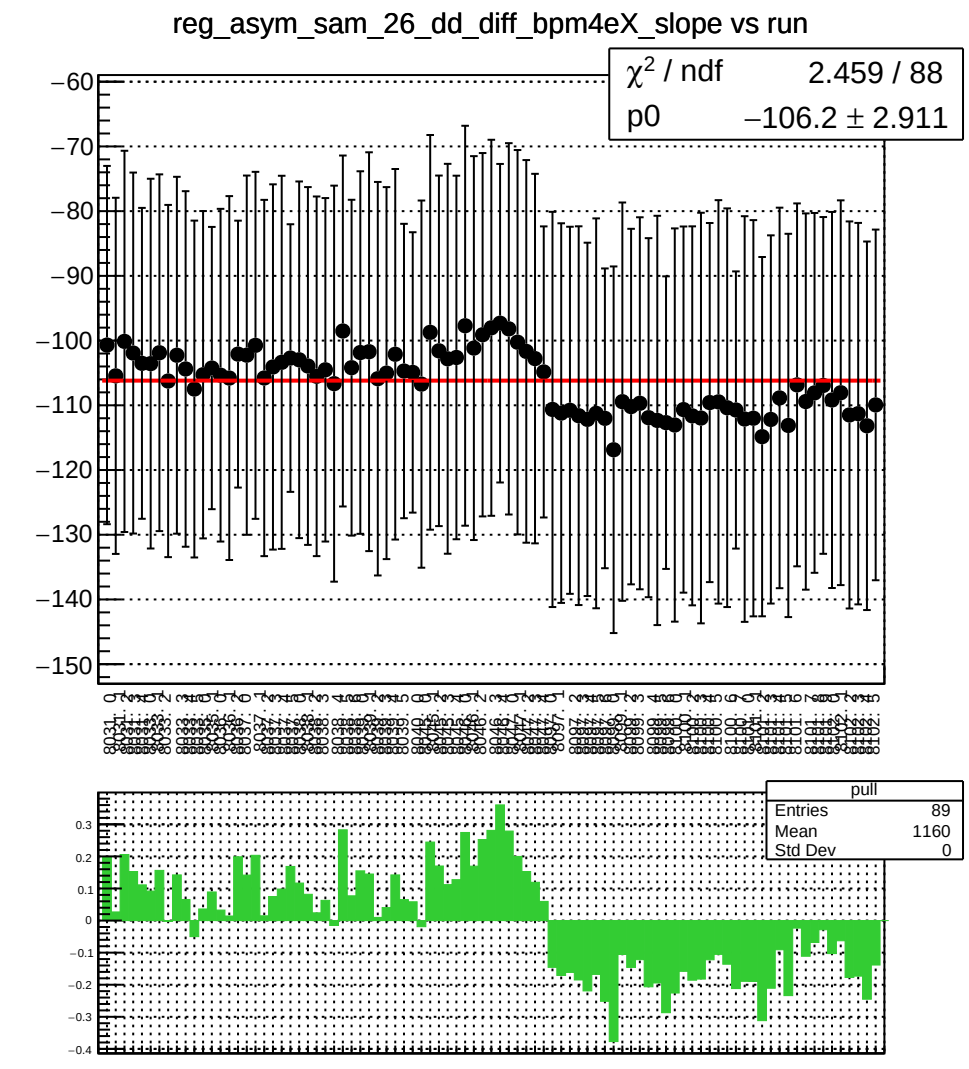

pull1D
Entries 89
Mean −0.01938
Std Dev 0.2405

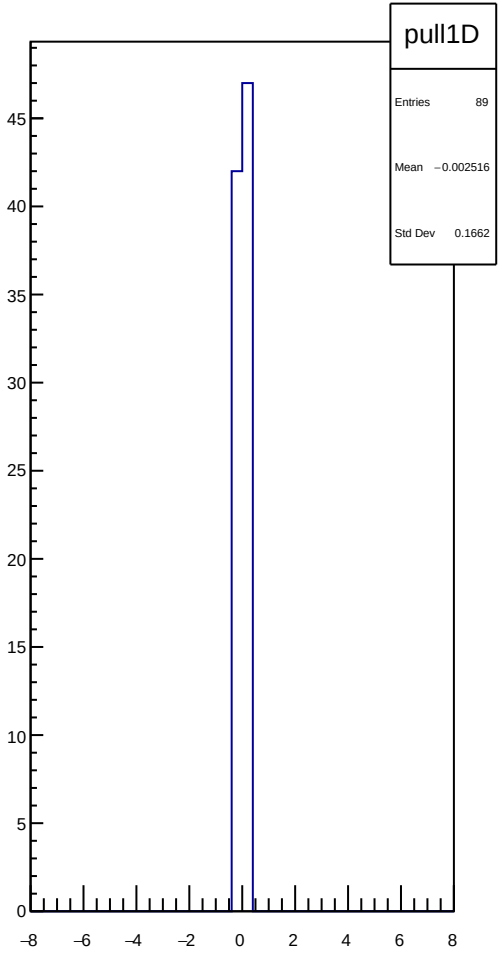

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 8.314 / 88
p0 1.847 ± 0.1069
pull
Entries 89
Mean −209.7
Std Dev 0
pull1D
Entries 89
Mean 0.02397
Std Dev 0.3047

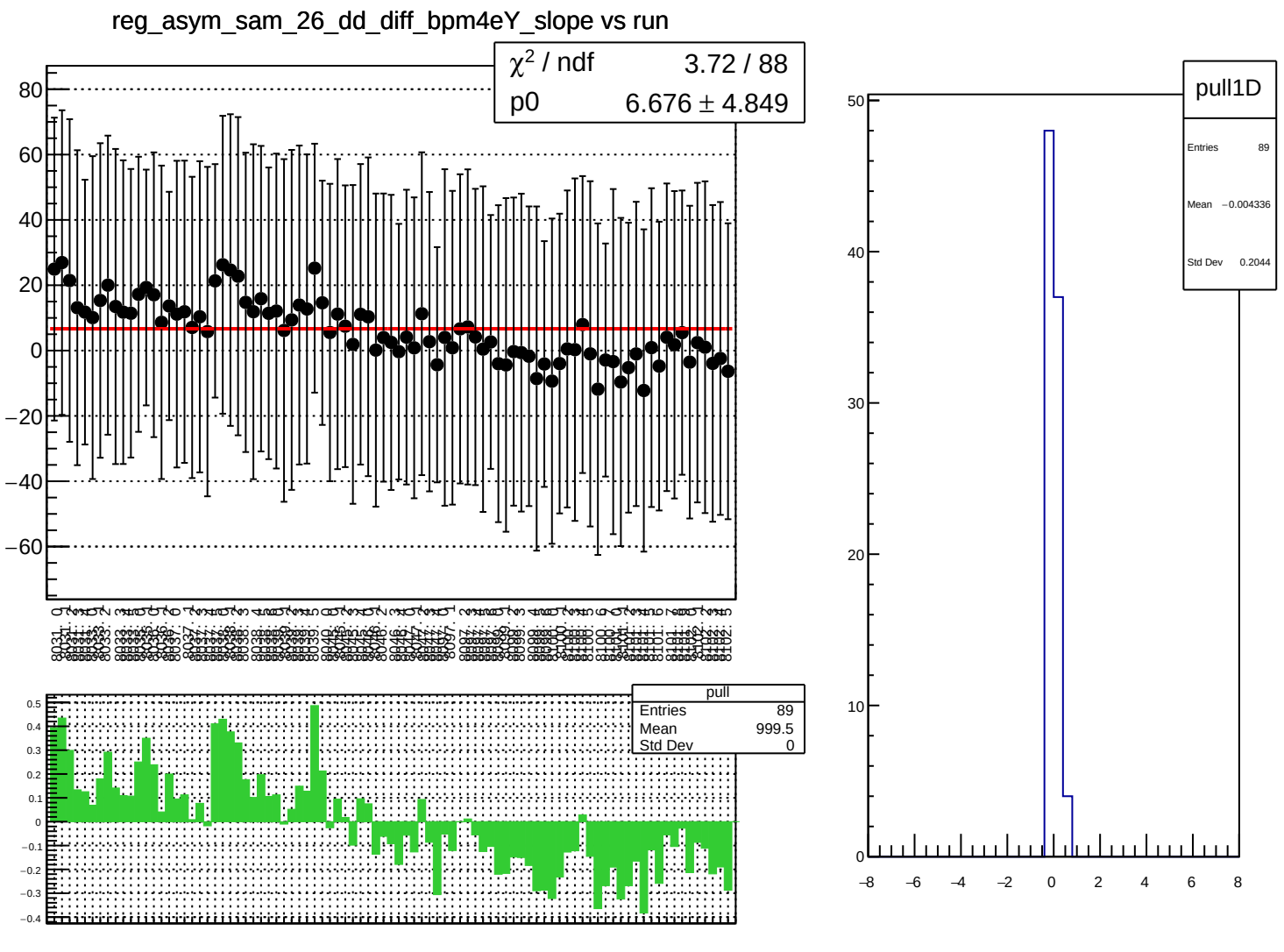

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 0.7889 / 88
p0 −24.59 ± 2.73
pull
Entries 89
Mean 210.9
Std Dev 0

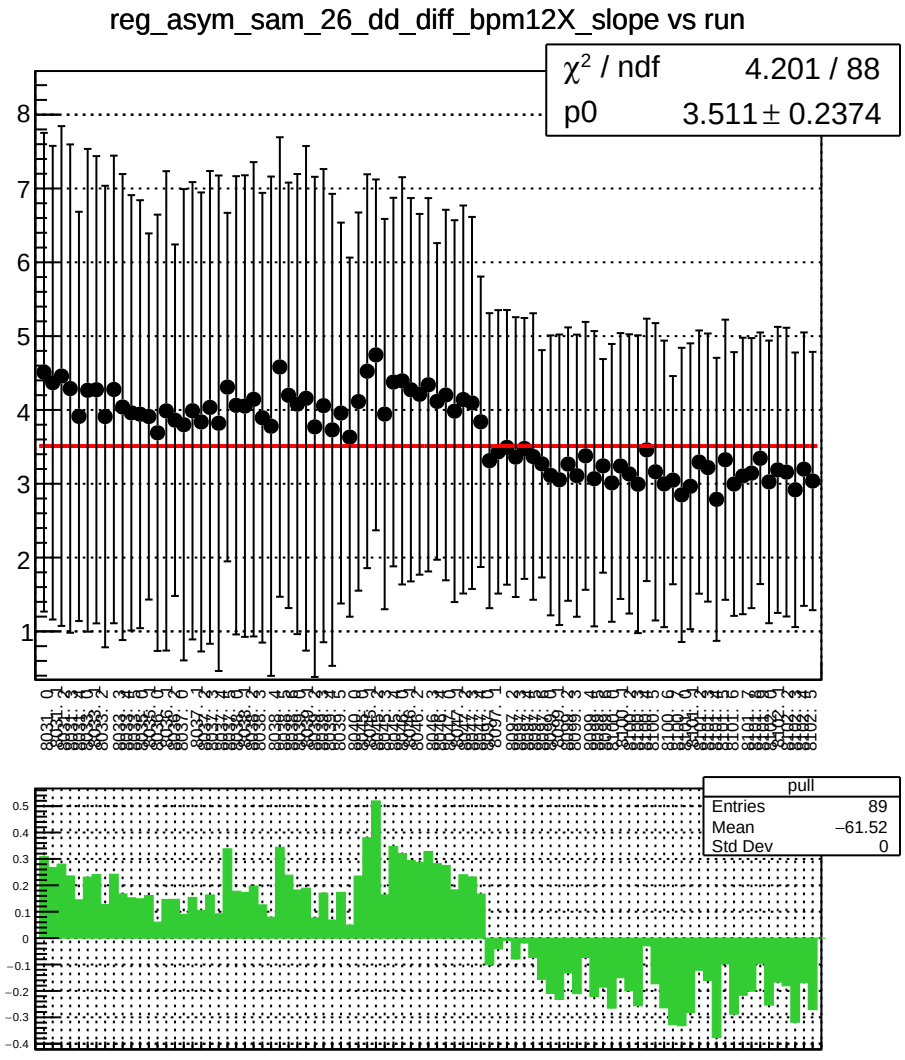

pull1D
Entries 89
Mean −0.005561
Std Dev 0.09398

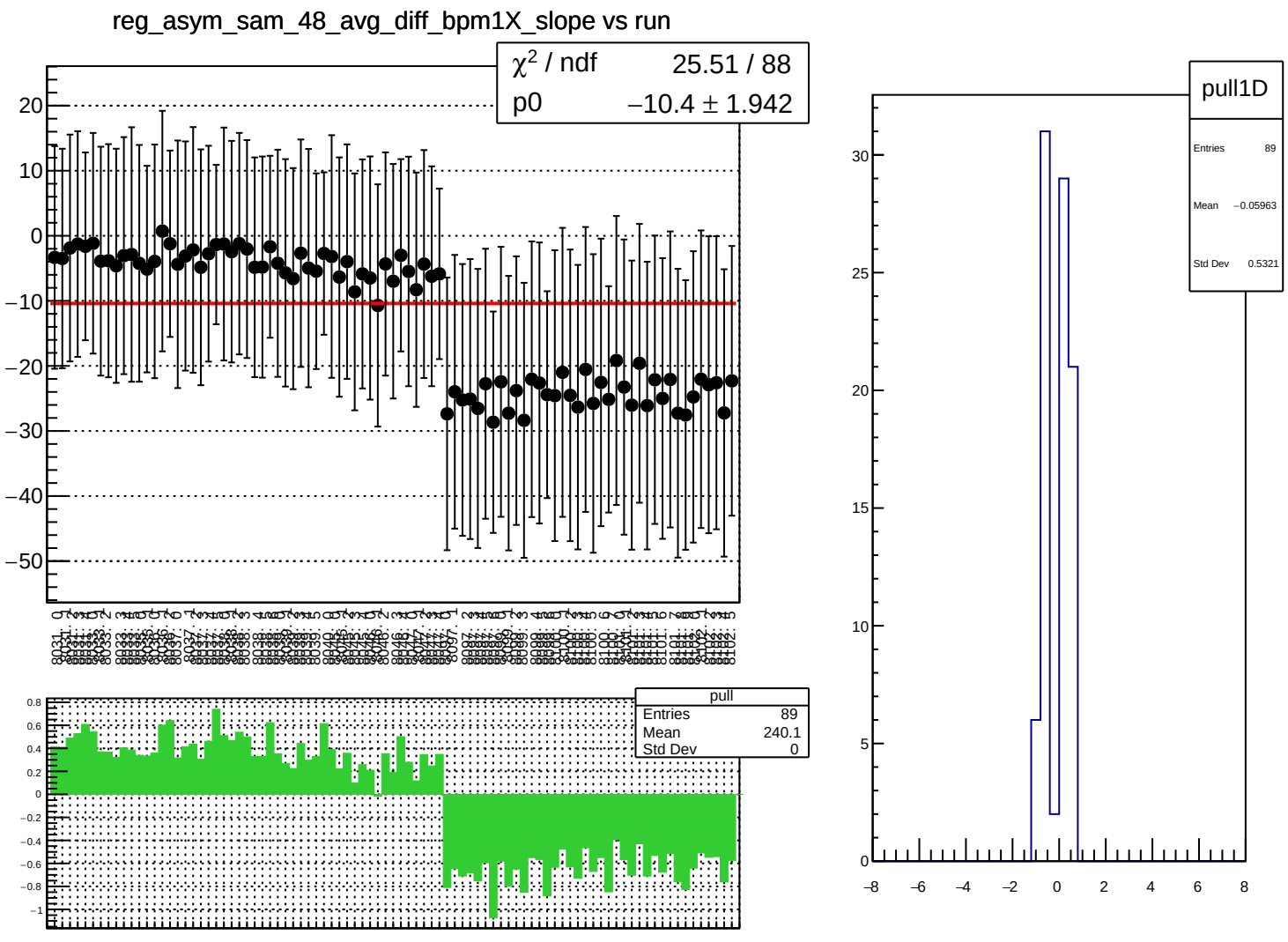

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.852 / 88
p0 −154.3 ± 4.565
pull
Entries 89
Mean 1308
Std Dev 0
pull1D
Entries 89
Mean 0.004399
Std Dev 0.2564

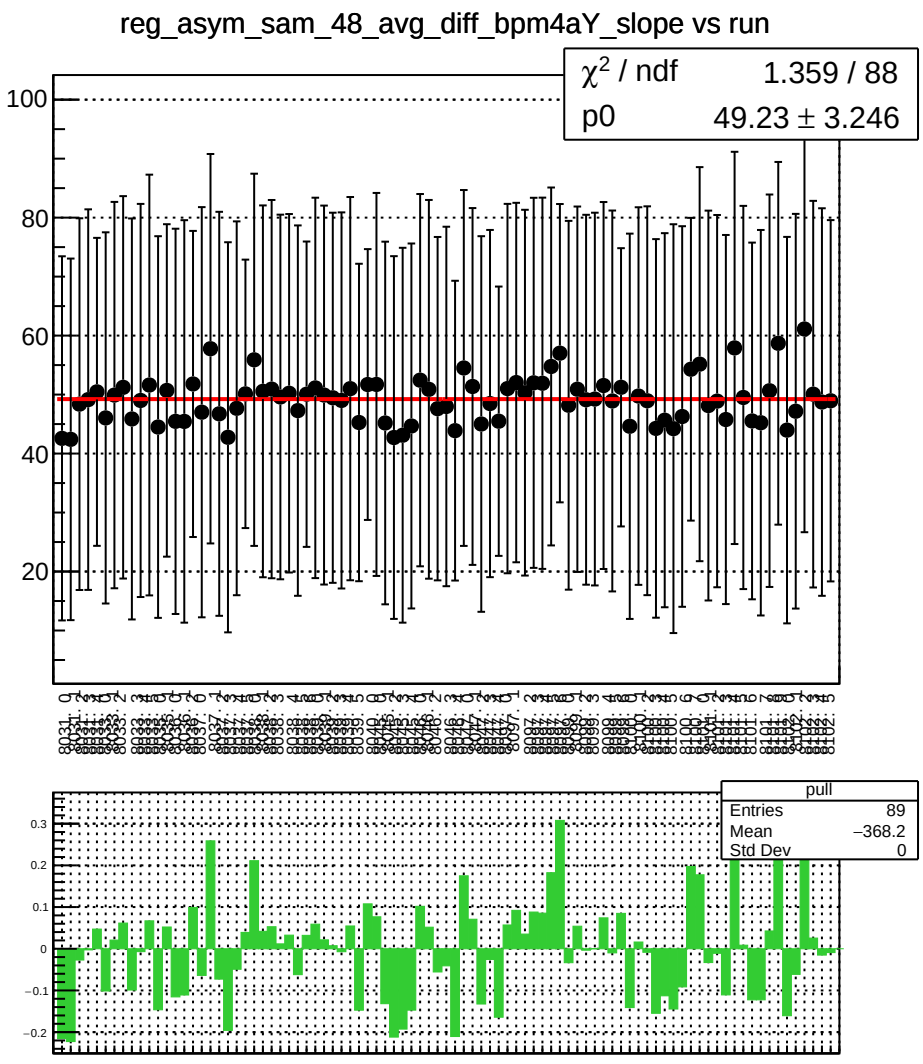

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.459 / 88
p0 −106.2 ± 2.911
pull
Entries 89
Mean 1160
Std Dev 0

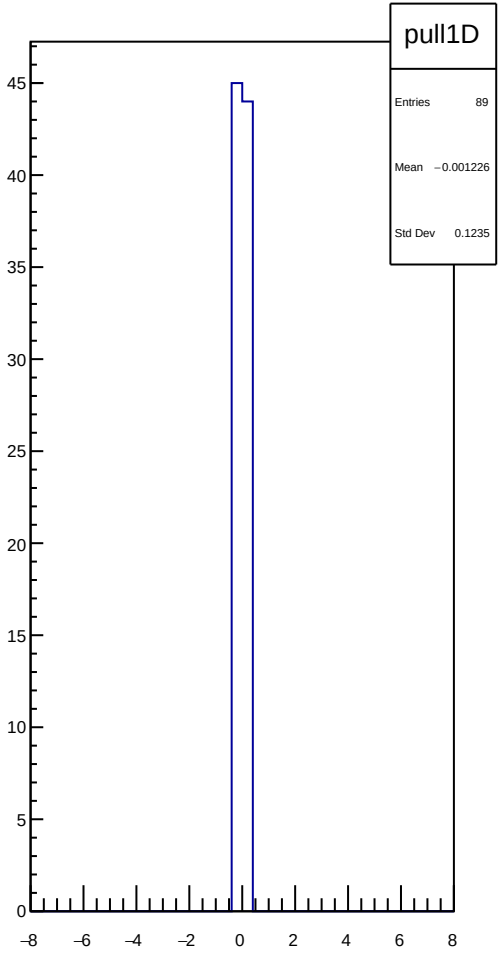

pull1D
Entries 89
Mean −0.002516
Std Dev 0.1662

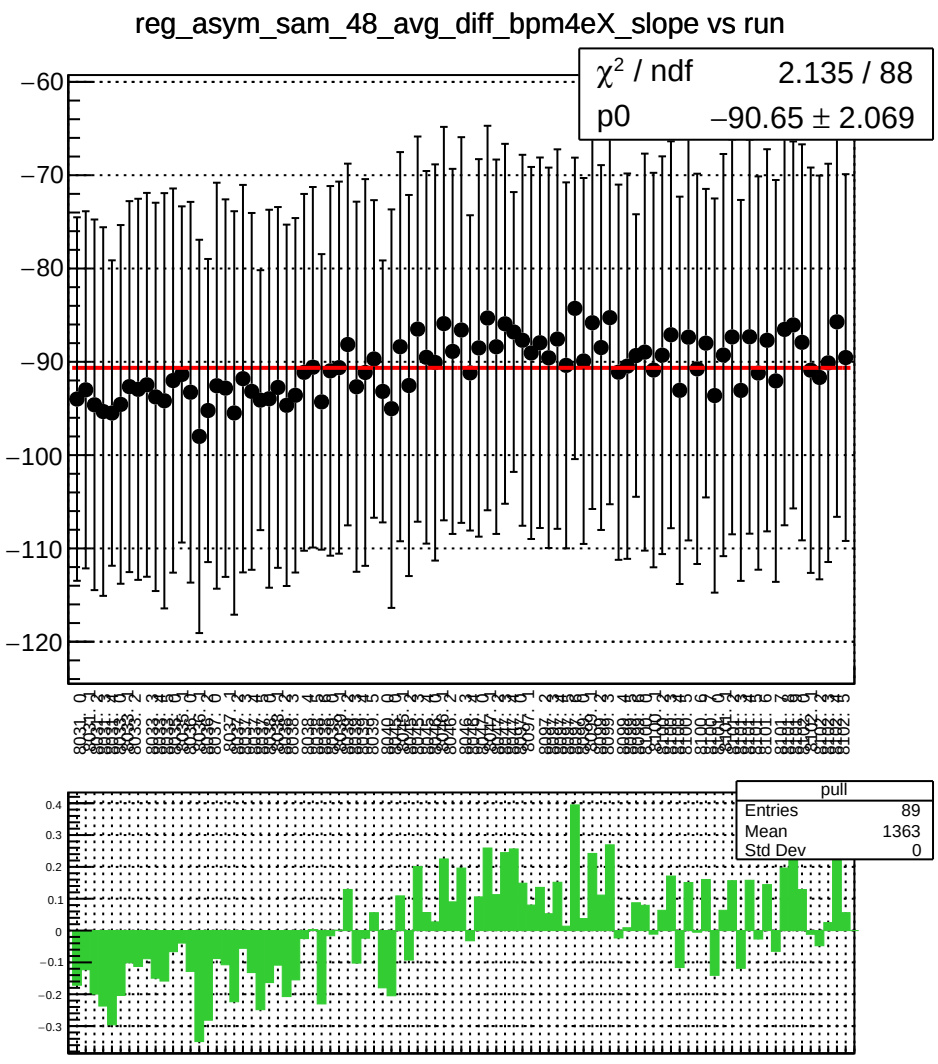

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.72 / 88
p0 6.676 ± 4.849
pull
Entries 89
Mean 999.5
Std Dev 0
pull1D
Entries 89
Mean −0.004336
Std Dev 0.2044

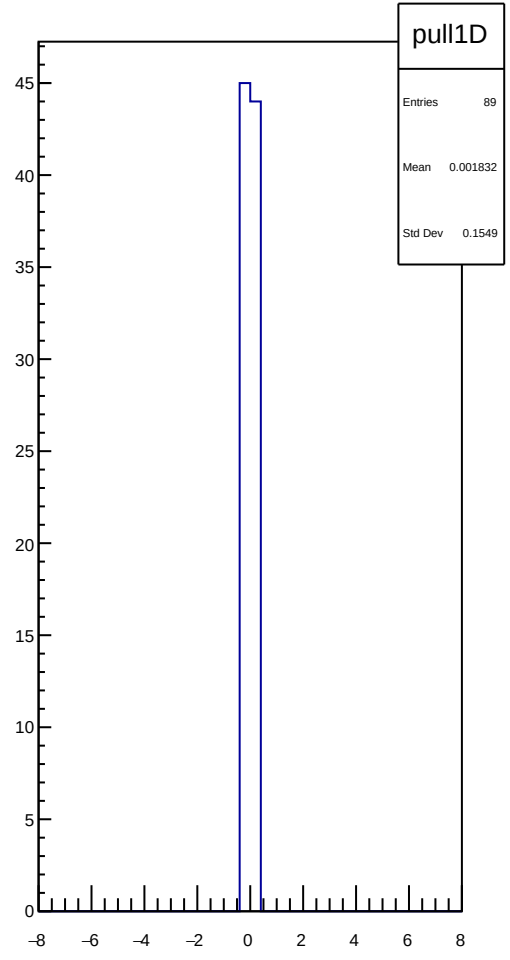

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 4.201 / 88
p0 3.511 ± 0.2374
pull
Entries 89
Mean −61.52
Std Dev 0
pull1D
Entries 89
Mean 0.0401
Std Dev 0.2135

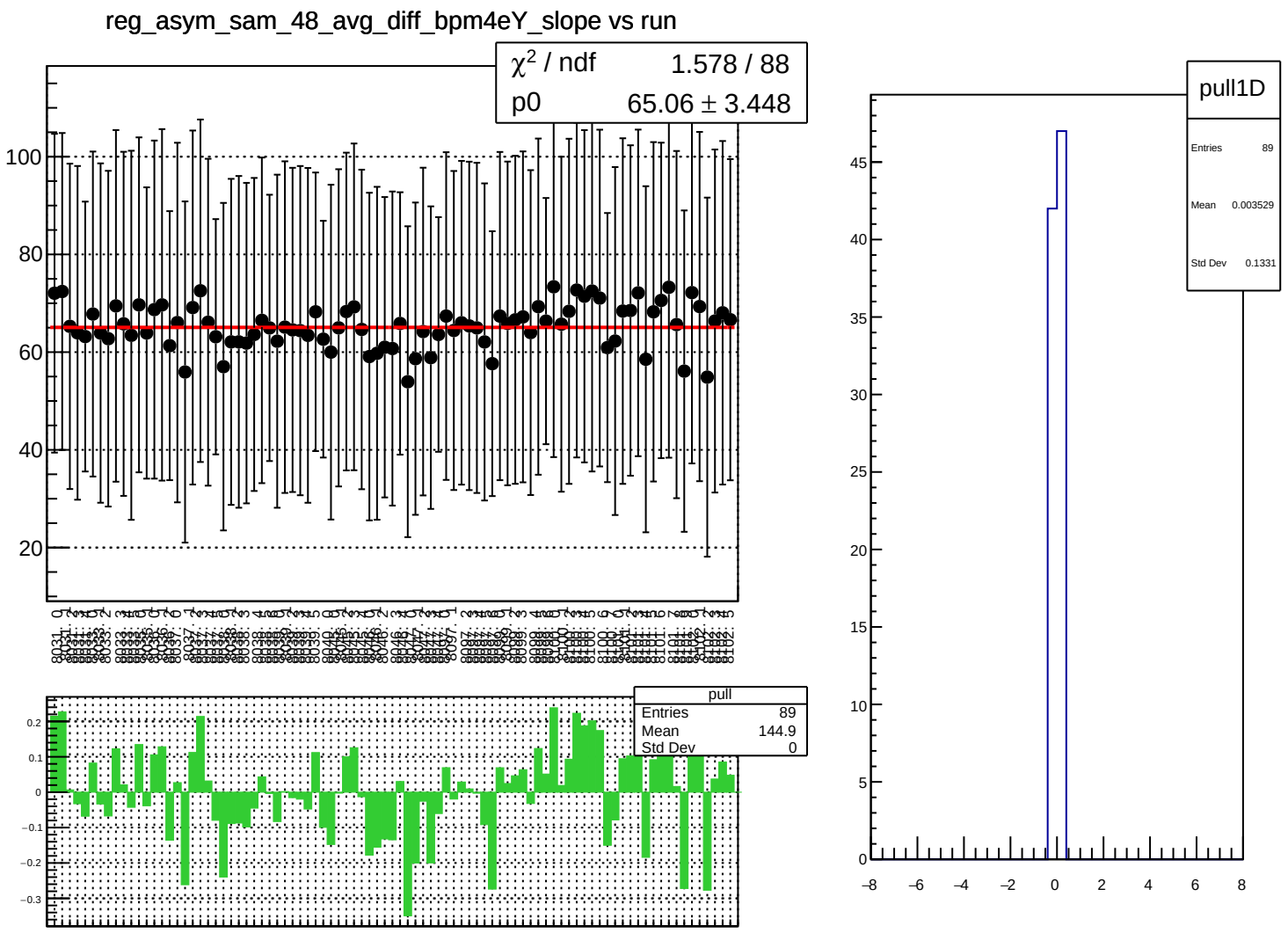

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 25.51 / 88
p0 −10.4 ± 1.942
pull
Entries 89
Mean 240.1
Std Dev 0
pull1D
Entries 89
Mean −0.05963
Std Dev 0.5321

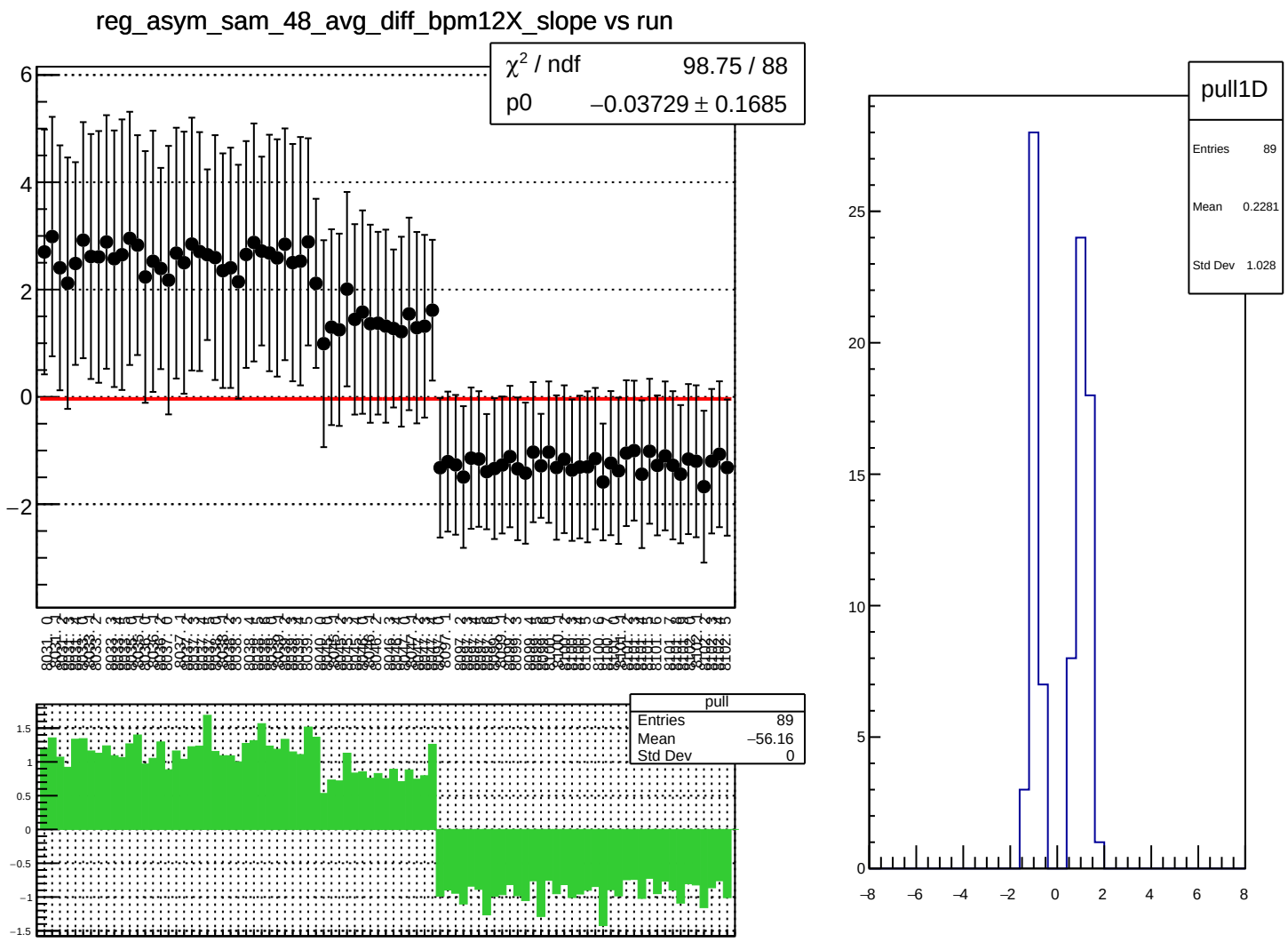

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.359 / 88
p0 49.23 ± 3.246
pull
Entries 89
Mean −368.2
Std Dev 0

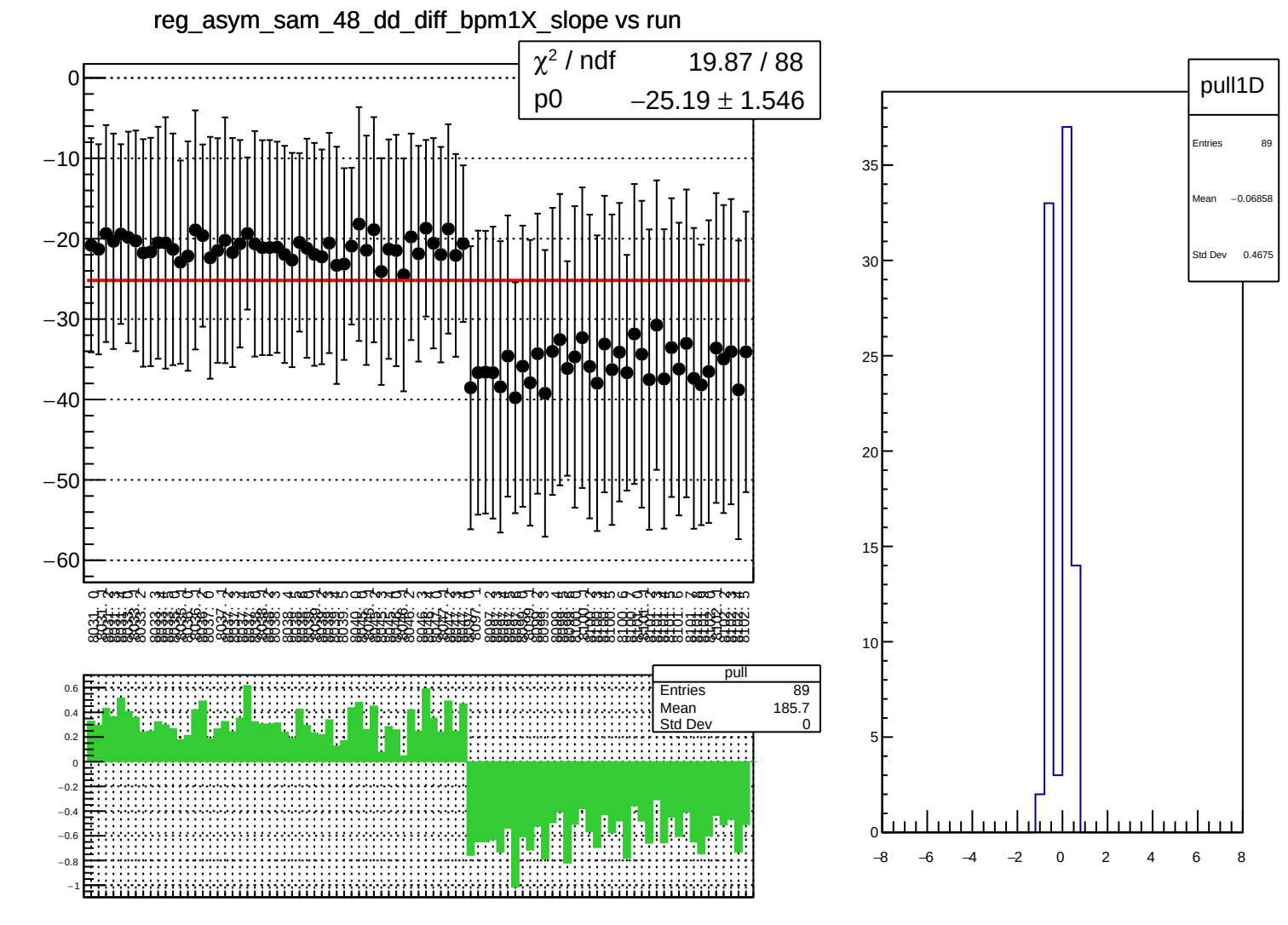

pull1D
Entries 89
Mean −0.001226
Std Dev 0.1235

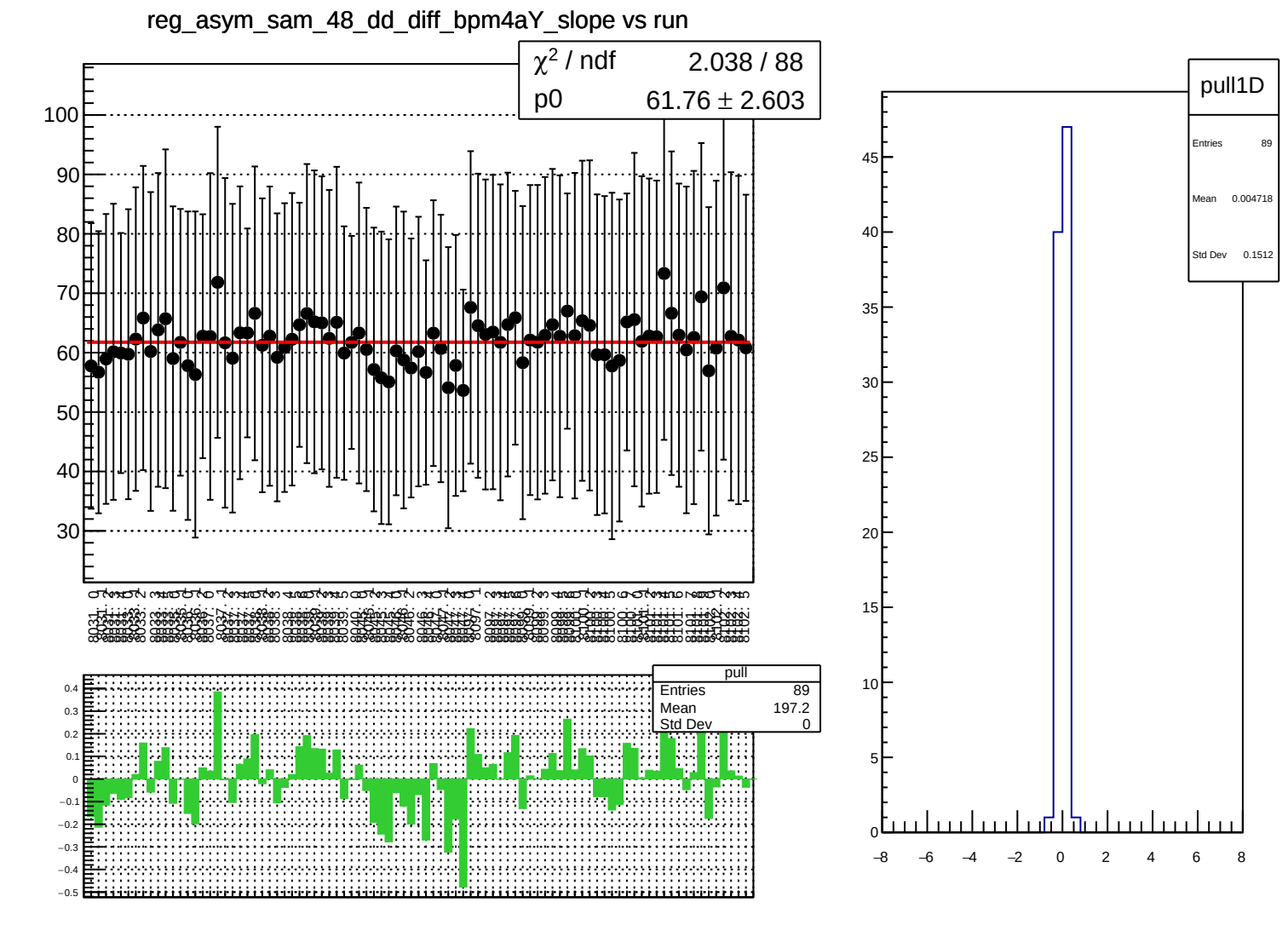

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.135 / 88
p0 −90.65 ± 2.069
pull
Entries 89
Mean 1363
Std Dev 0

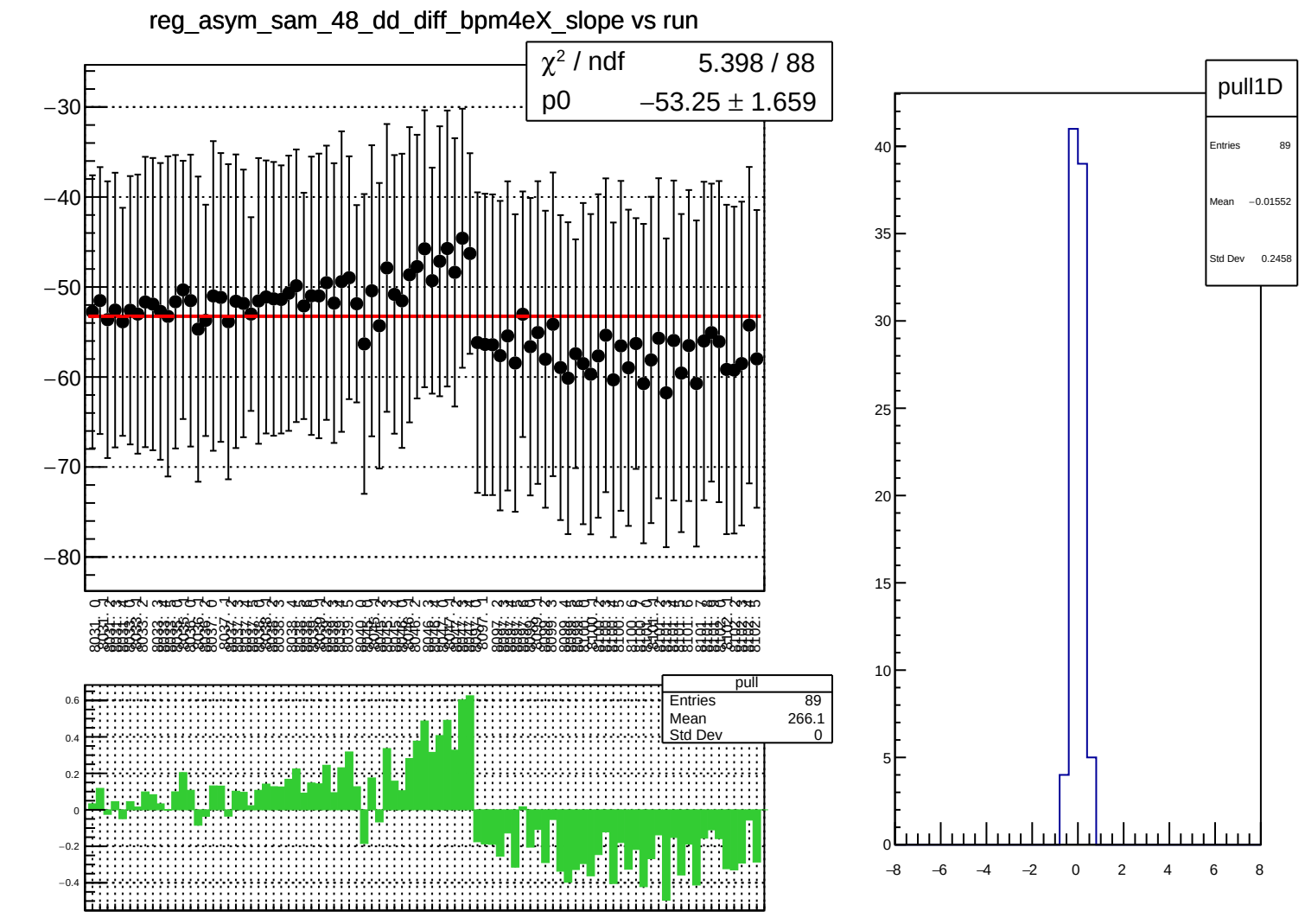

pull1D
Entries 89
Mean 0.001832
Std Dev 0.1549

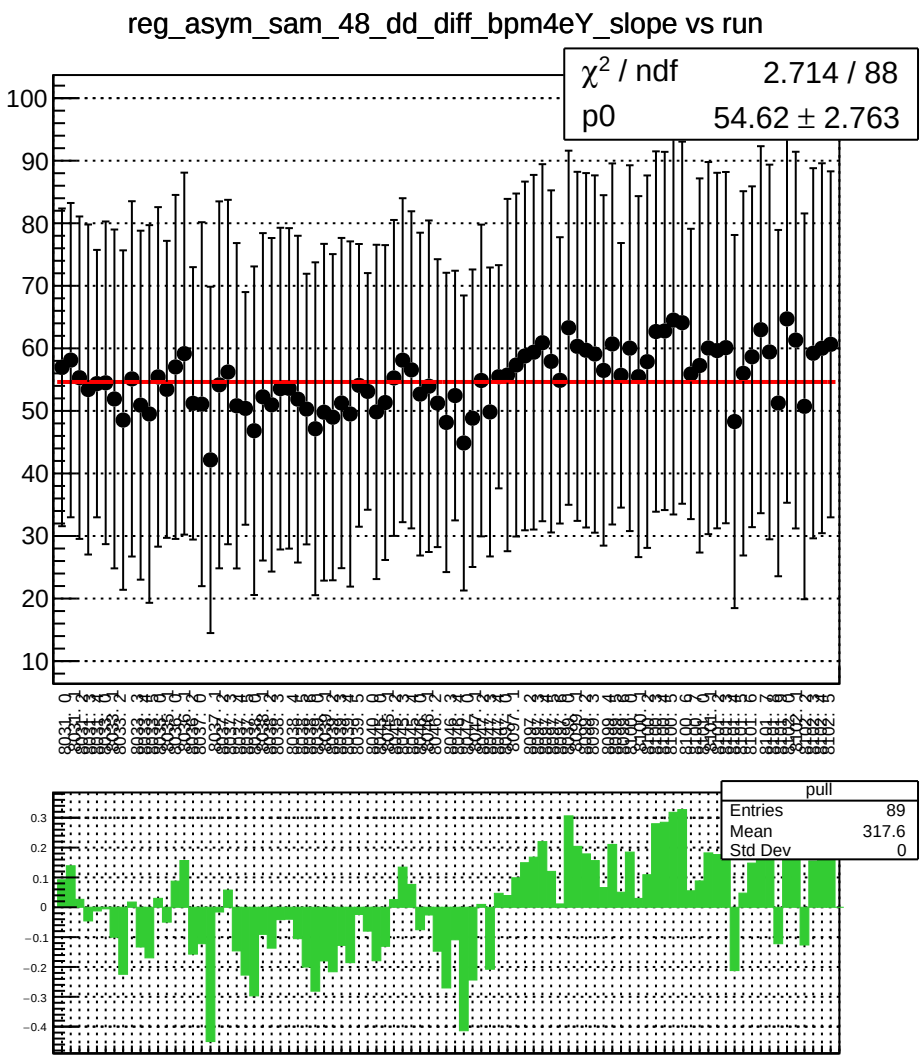

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.578 / 88
p0 65.06 ± 3.448
pull
Entries 89
Mean 144.9
Std Dev 0
pull1D
Entries 89
Mean 0.003529
Std Dev 0.1331

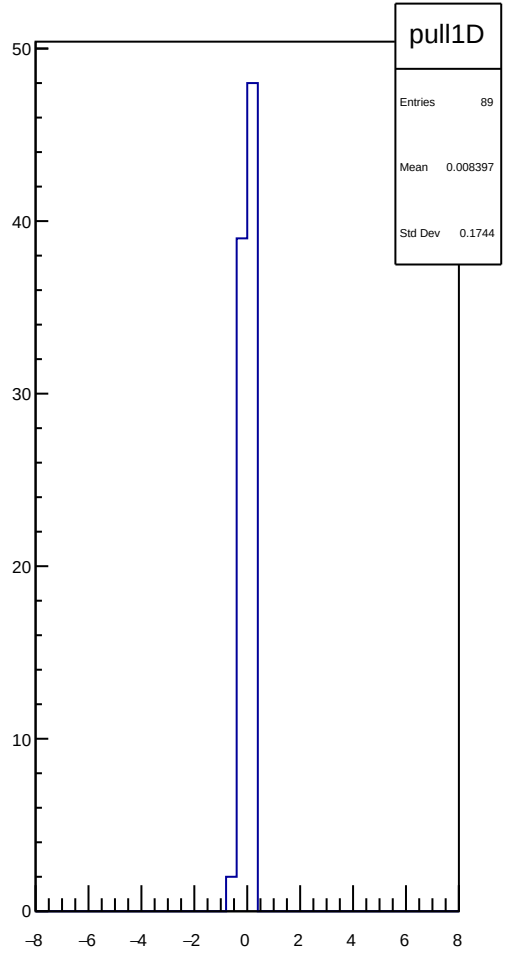

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 98.75 / 88
p0 −0.03729 ± 0.1685
pull
Entries 89
Mean −56.16
Std Dev 0
pull1D
Entries 89
Mean 0.2281
Std Dev 1.028

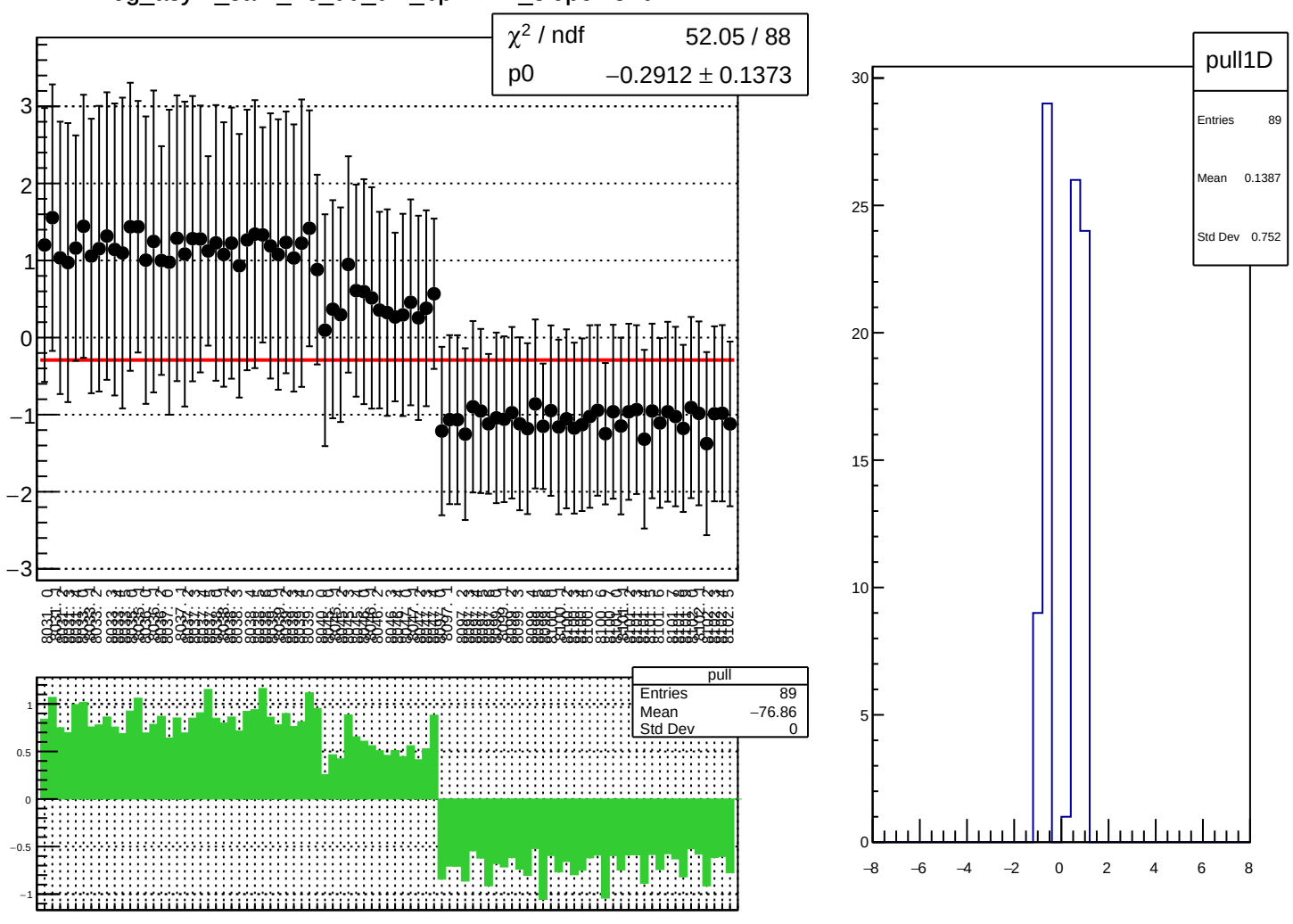

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 19.87 / 88
p0 −25.19 ± 1.546
pull
Entries 89
Mean 185.7
Std Dev 0
pull1D
Entries 89
Mean −0.06858
Std Dev 0.4675

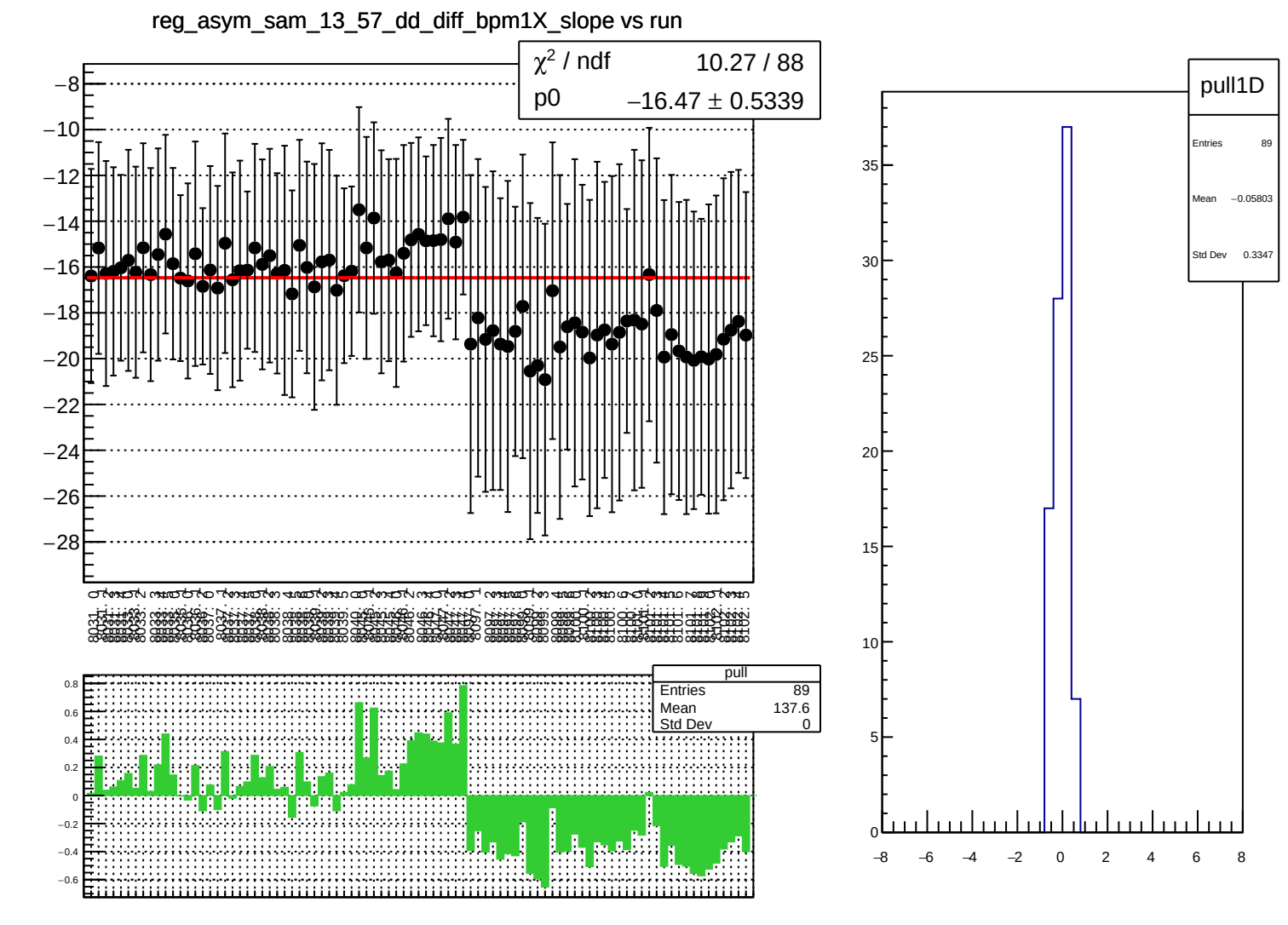

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.038 / 88
p0 61.76 ± 2.603
pull
Entries 89
Mean 197.2
Std Dev 0
pull1D
Entries 89
Mean 0.004718
Std Dev 0.1512

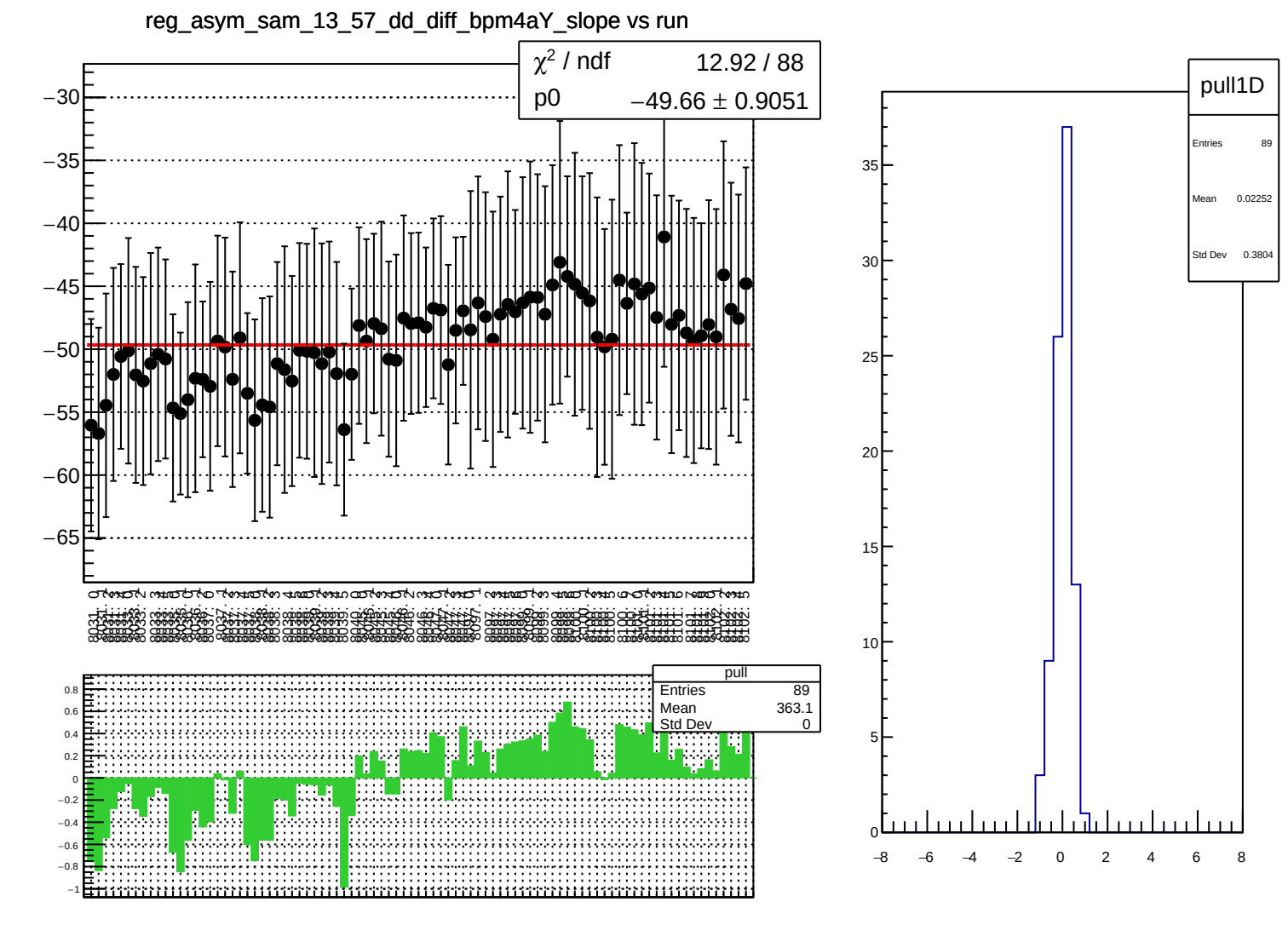

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.398 / 88
p0 −53.25 ± 1.659
pull
Entries 89
Mean 266.1
Std Dev 0
pull1D
Entries 89
Mean −0.01552
Std Dev 0.2458

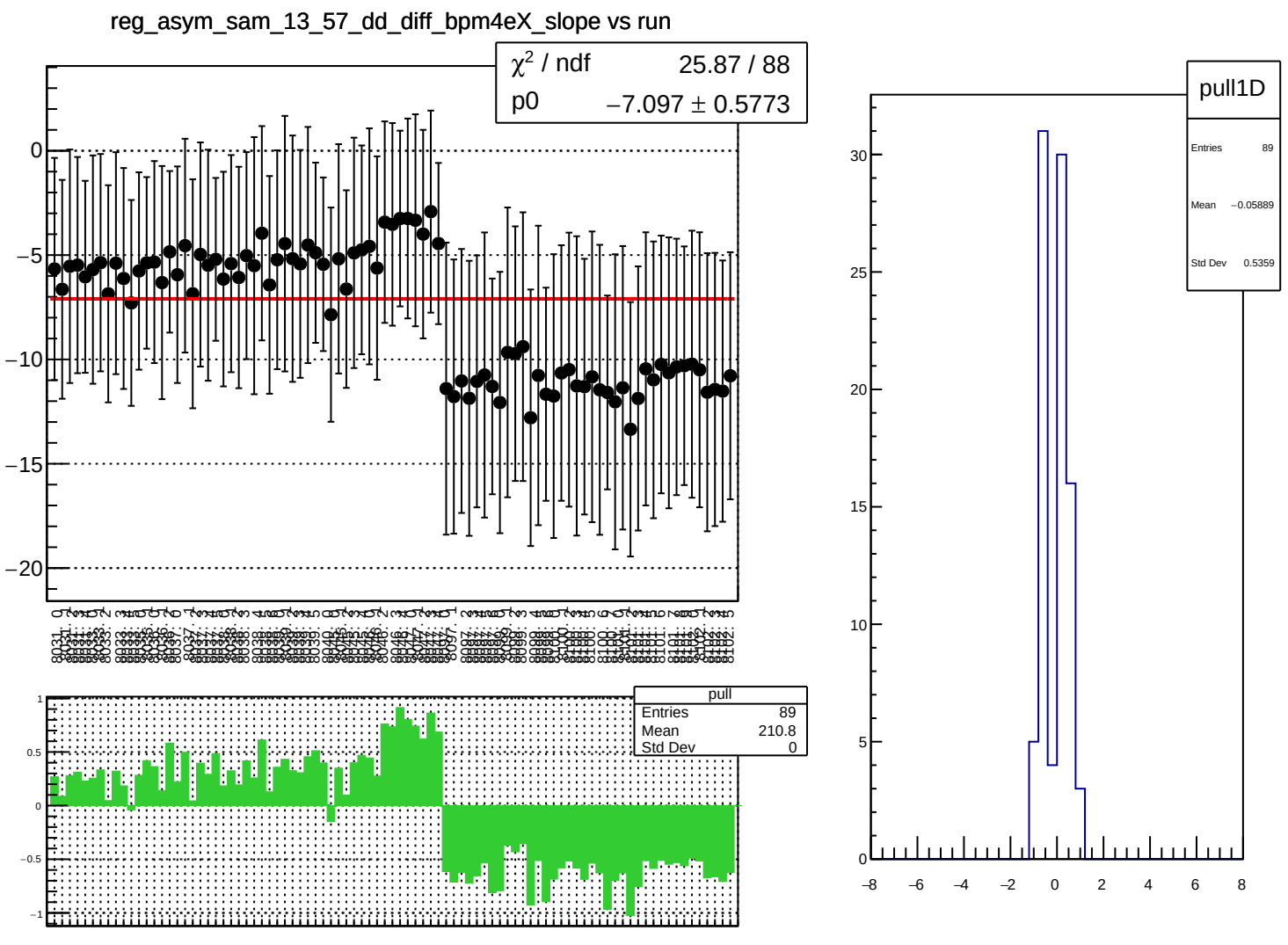

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.714 / 88
p0 54.62 ± 2.763
pull
Entries 89
Mean 317.6
Std Dev 0

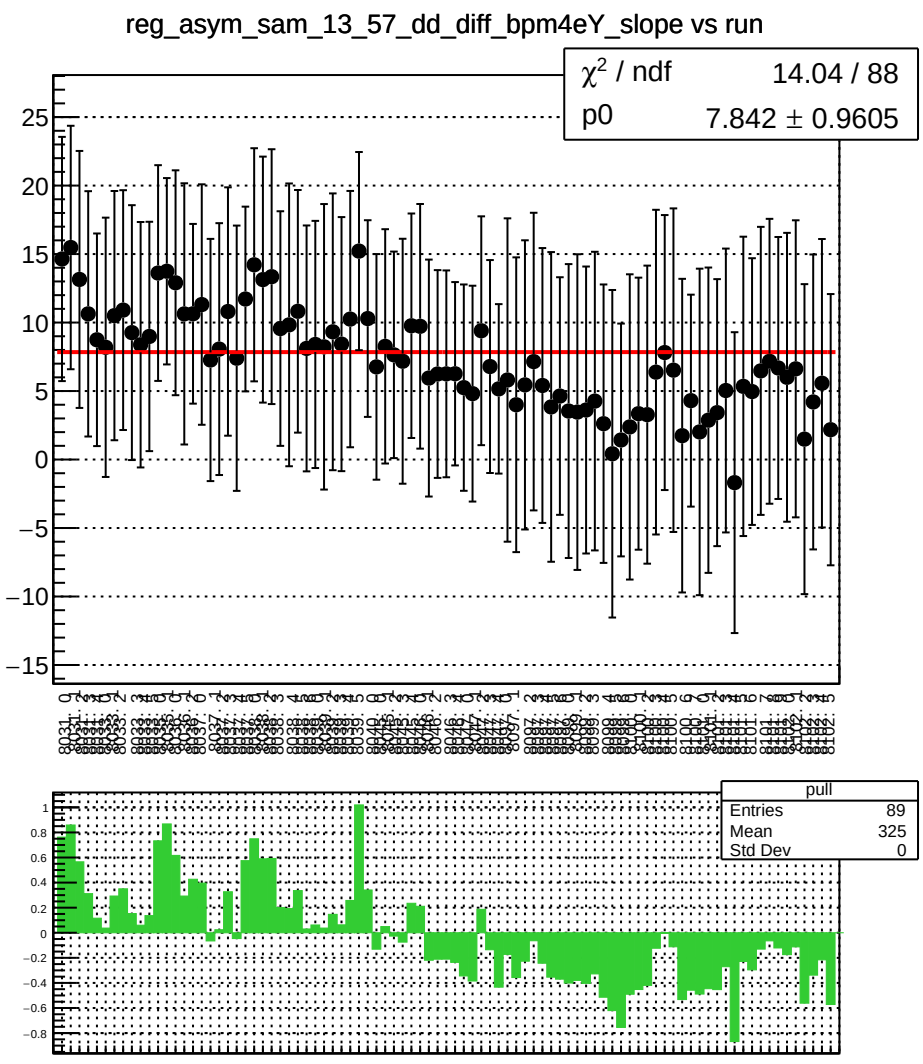

pull1D
Entries 89
Mean 0.008397
Std Dev 0.1744

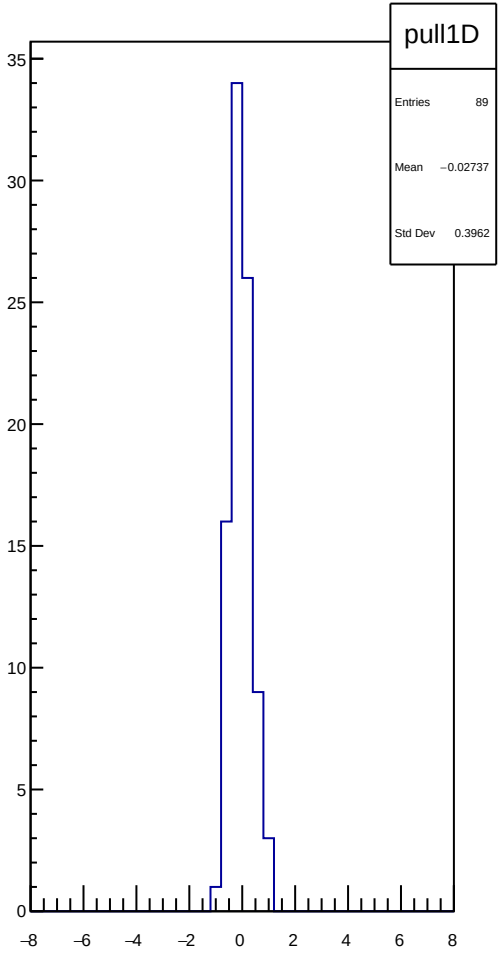

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 52.05 / 88
p0 −0.2912 ± 0.1373
pull
Entries 89
Mean −76.86
Std Dev 0
pull1D
Entries 89
Mean 0.1387
Std Dev 0.752

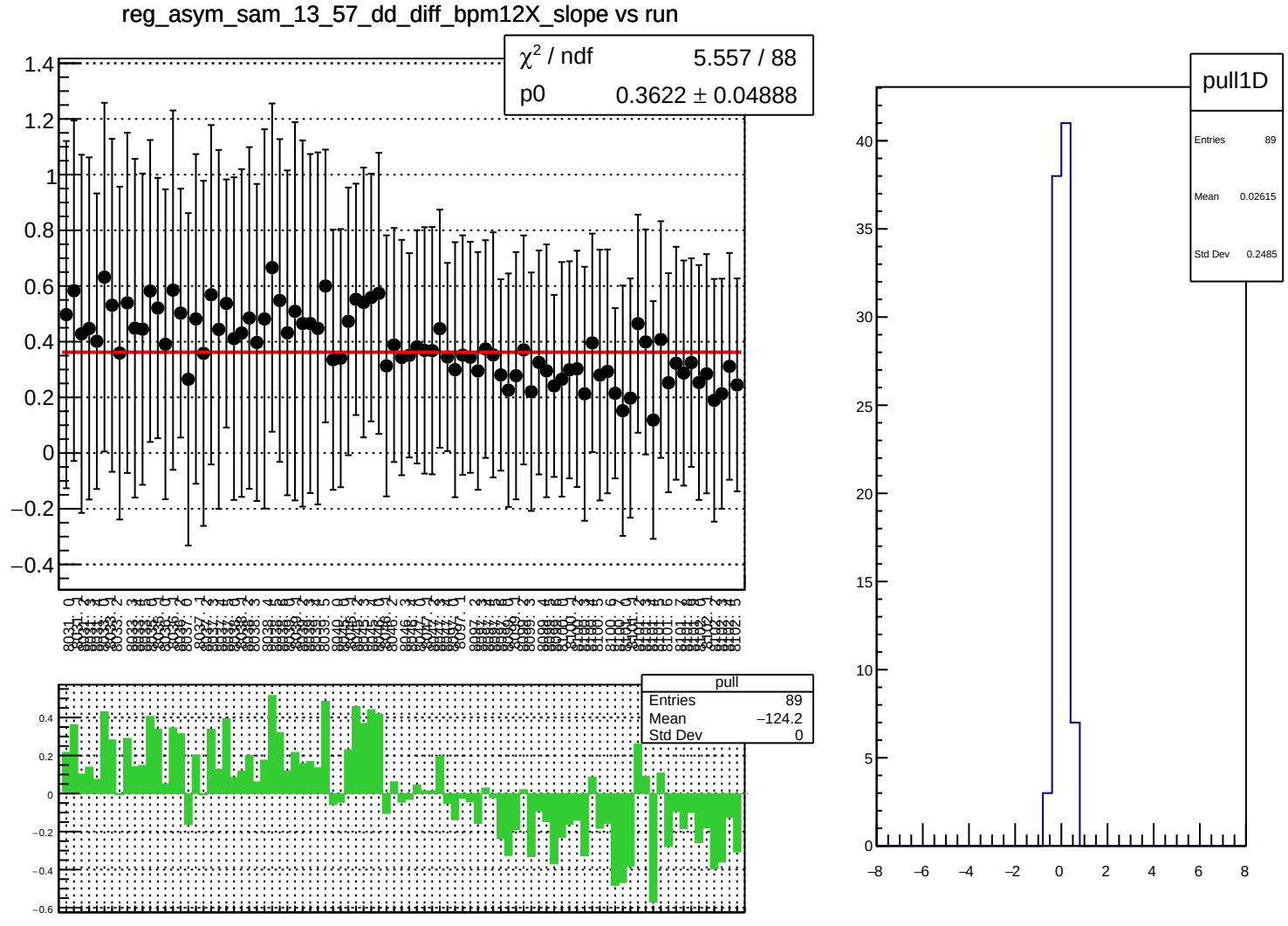

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 10.27 / 88
p0 −16.47 ± 0.5339
pull
Entries 89
Mean 137.6
Std Dev 0
pull1D
Entries 89
Mean −0.05803
Std Dev 0.3347

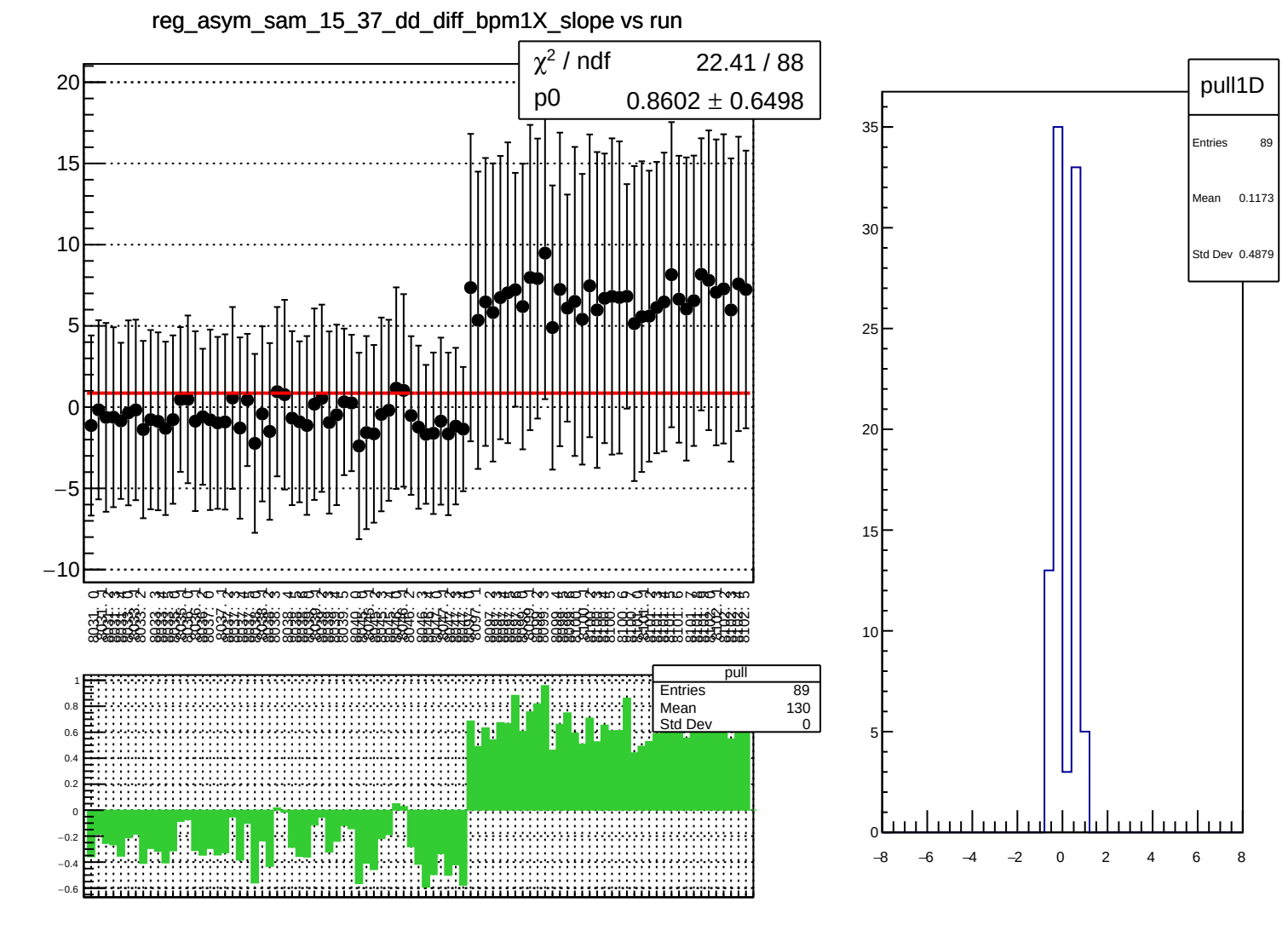

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.92 / 88
p0 −49.66 ± 0.9051
pull
Entries 89
Mean 363.1
Std Dev 0
pull1D
Entries 89
Mean 0.02252
Std Dev 0.3804

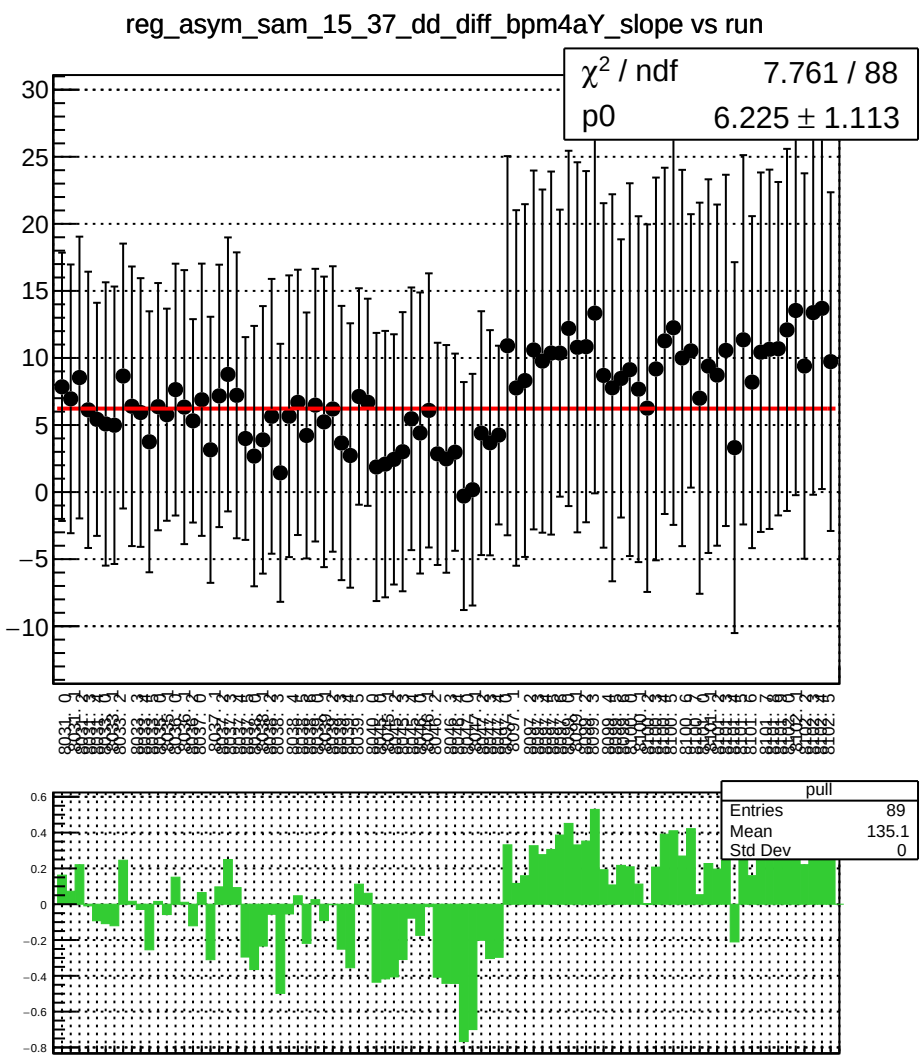

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 25.87 / 88
p0 −7.097 ± 0.5773
0
−5
−10
−15
−20
pull
Entries 89
Mean 210.8
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean −0.05889
Std Dev 0.5359
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

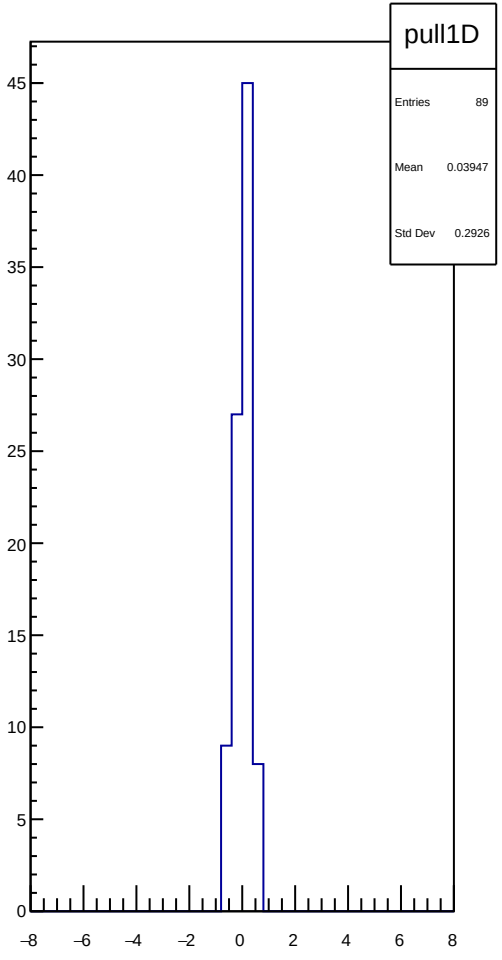

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.04 / 88
p0 7.842 ± 0.9605
pull
Entries 89
Mean 325
Std Dev 0

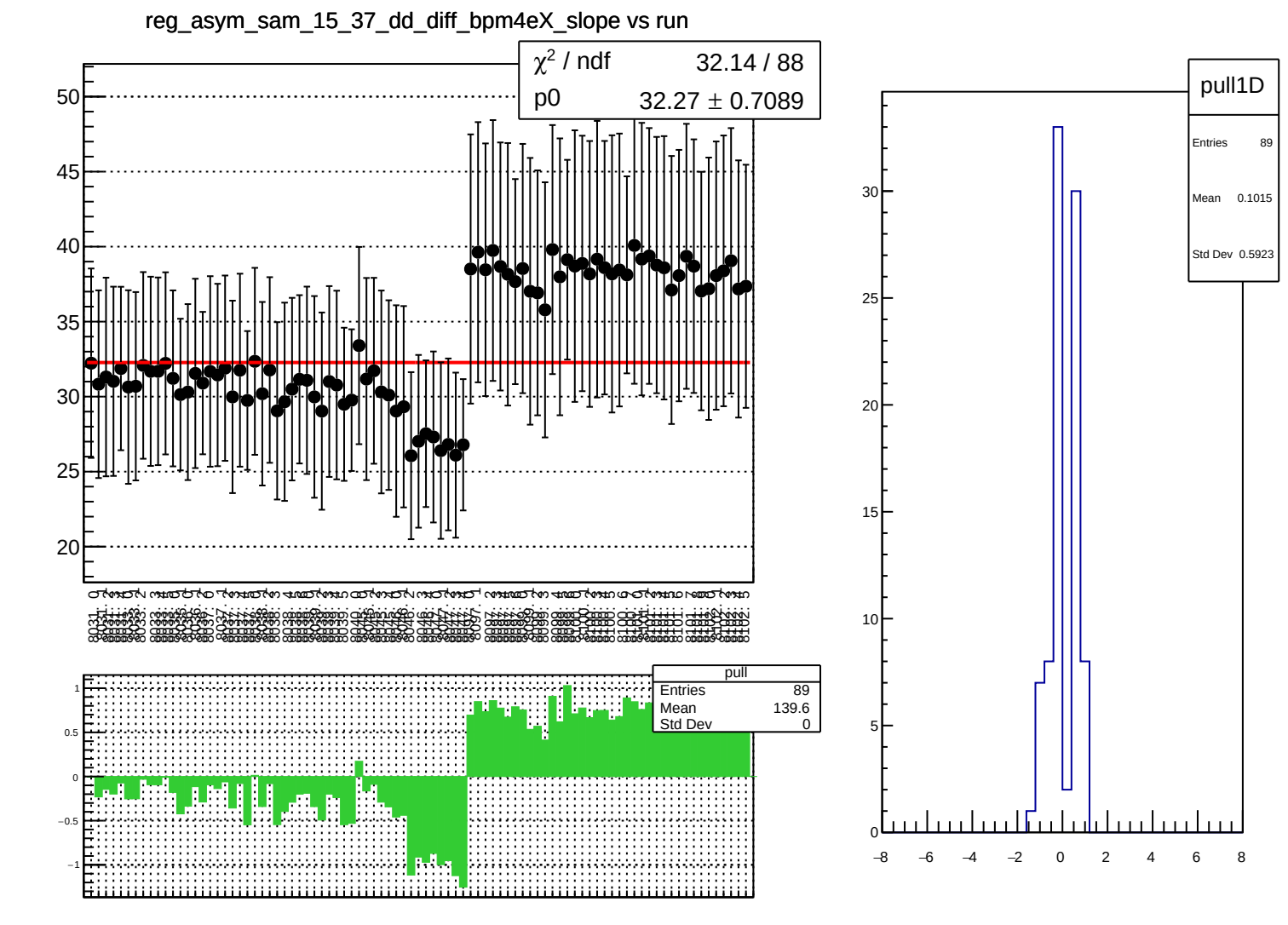

pull1D
Entries 89
Mean −0.02737
Std Dev 0.3962

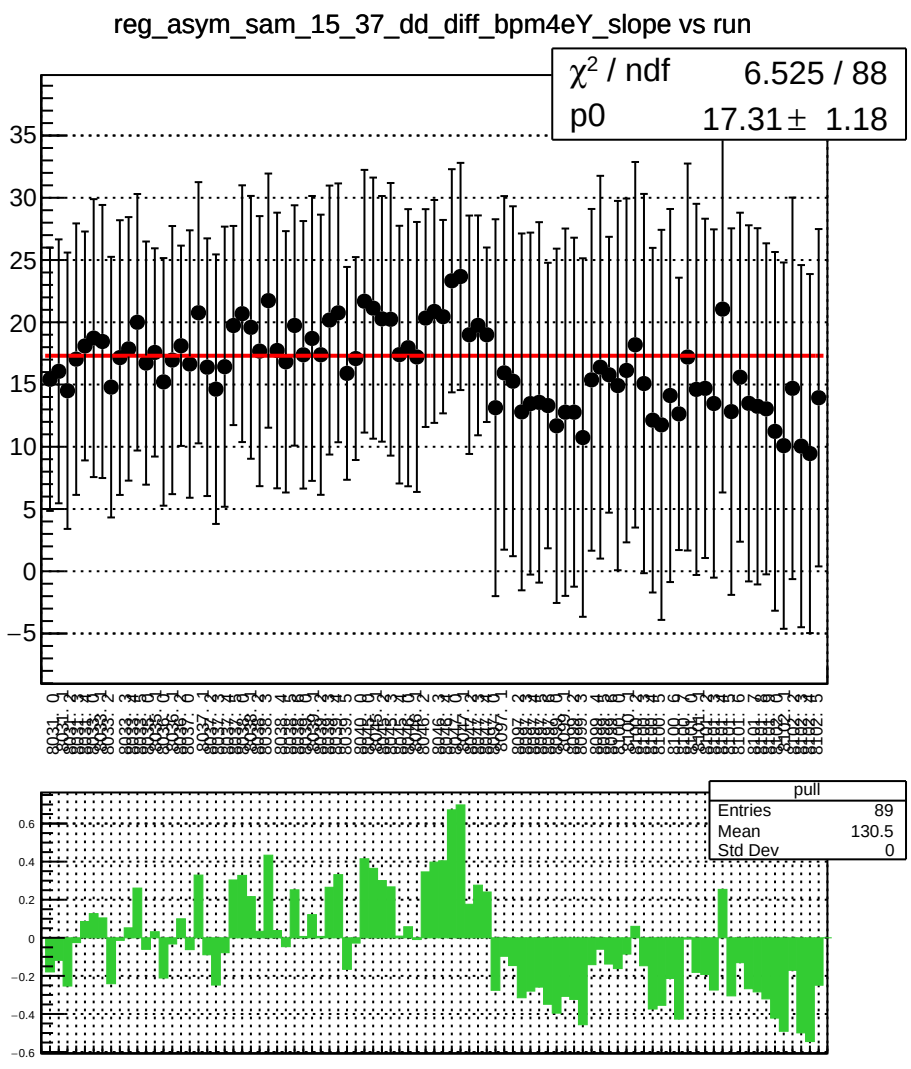

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 5.557 / 88
p0 0.3622 ± 0.04888
pull
Entries 89
Mean −124.2
Std Dev 0
pull1D
Entries 89
Mean 0.02615
Std Dev 0.2485

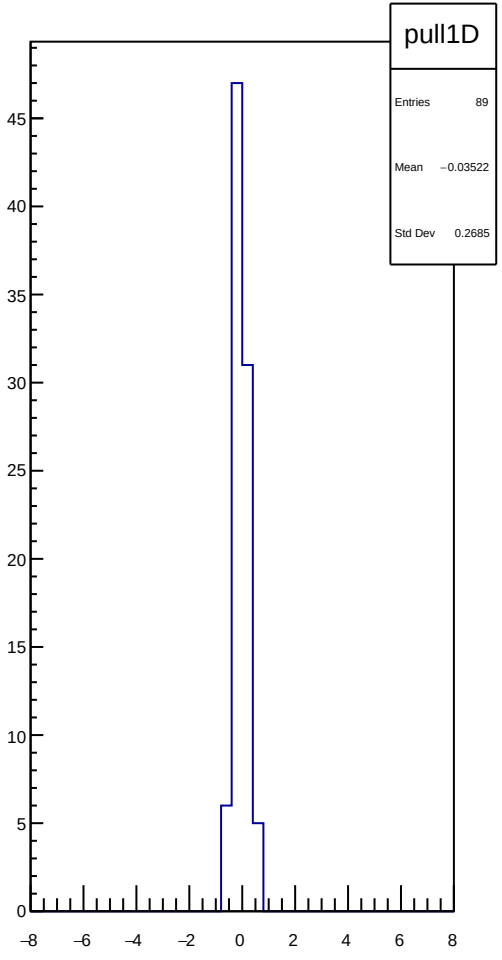

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 22.41 / 88
p0 0.8602 ± 0.6498
pull
Entries 89
Mean 130
Std Dev 0
pull1D
Entries 89
Mean 0.1173
Std Dev 0.4879

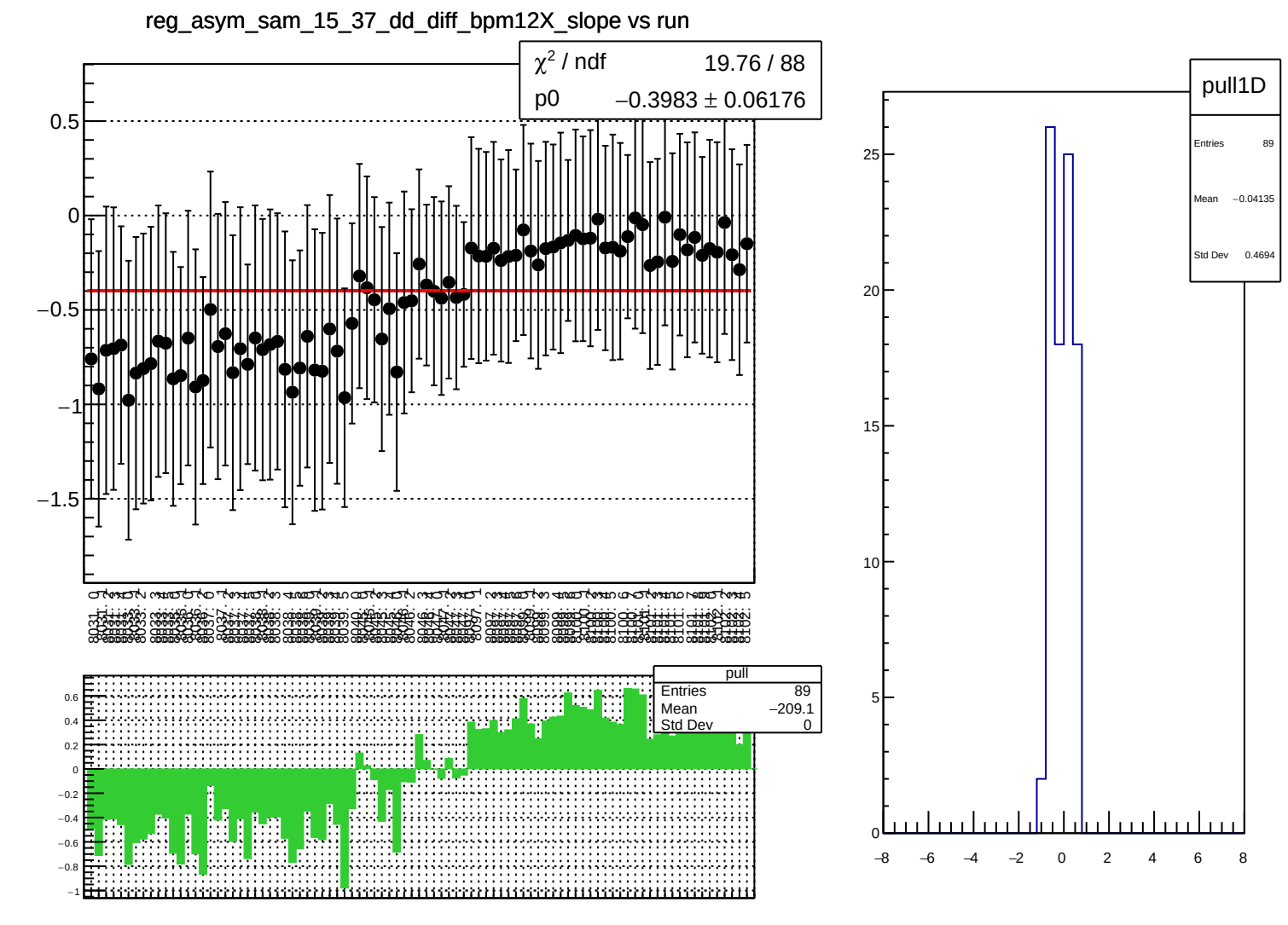

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.761 / 88
p0 6.225 ± 1.113
pull
Entries 89
Mean 135.1
Std Dev 0

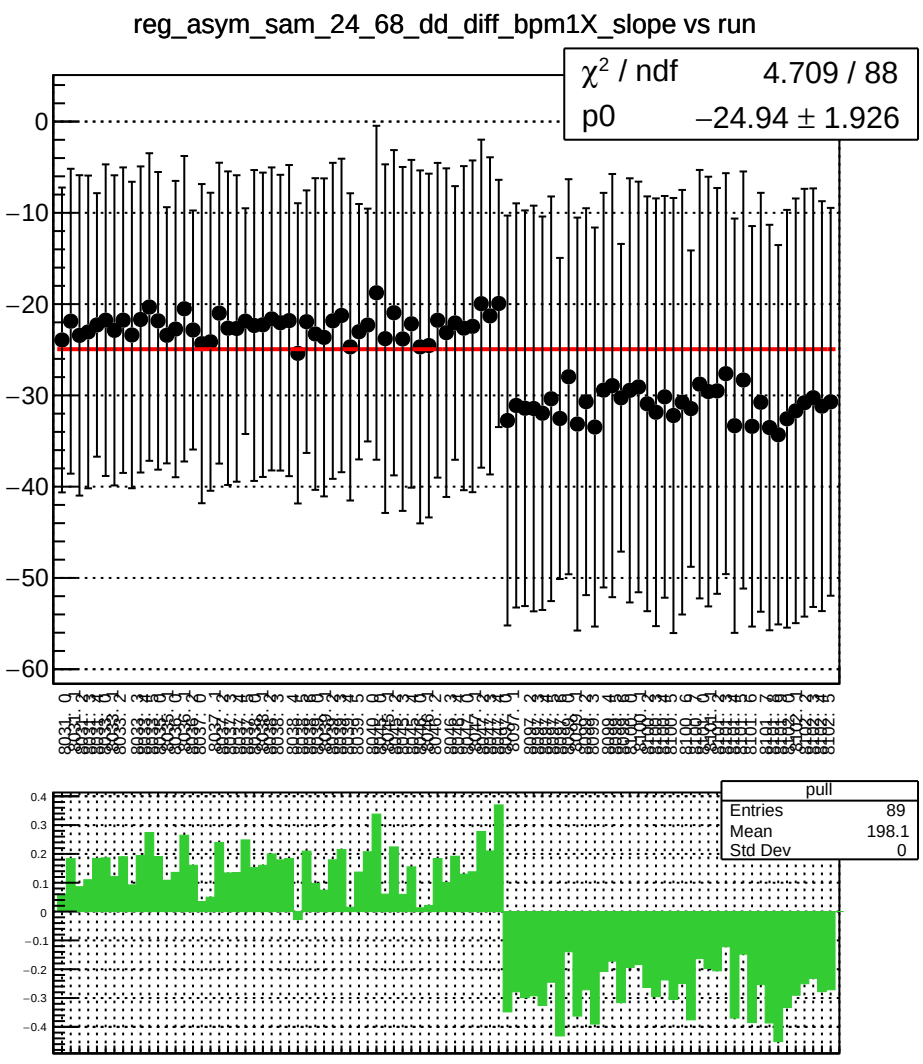

pull1D
Entries 89
Mean 0.03947
Std Dev 0.2926

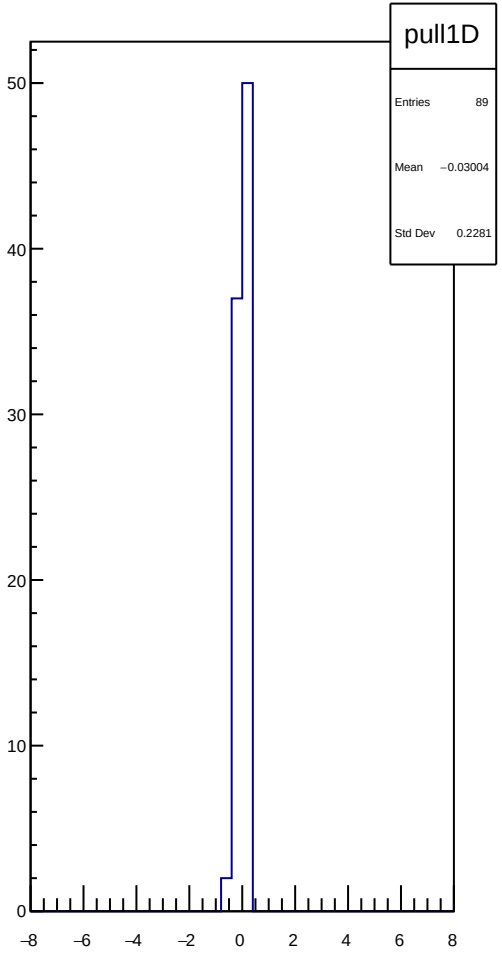

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 32.14 / 88
p0 32.27 ± 0.7089
pull
Entries 89
Mean 139.6
Std Dev 0
pull1D
Entries 89
Mean 0.1015
Std Dev 0.5923

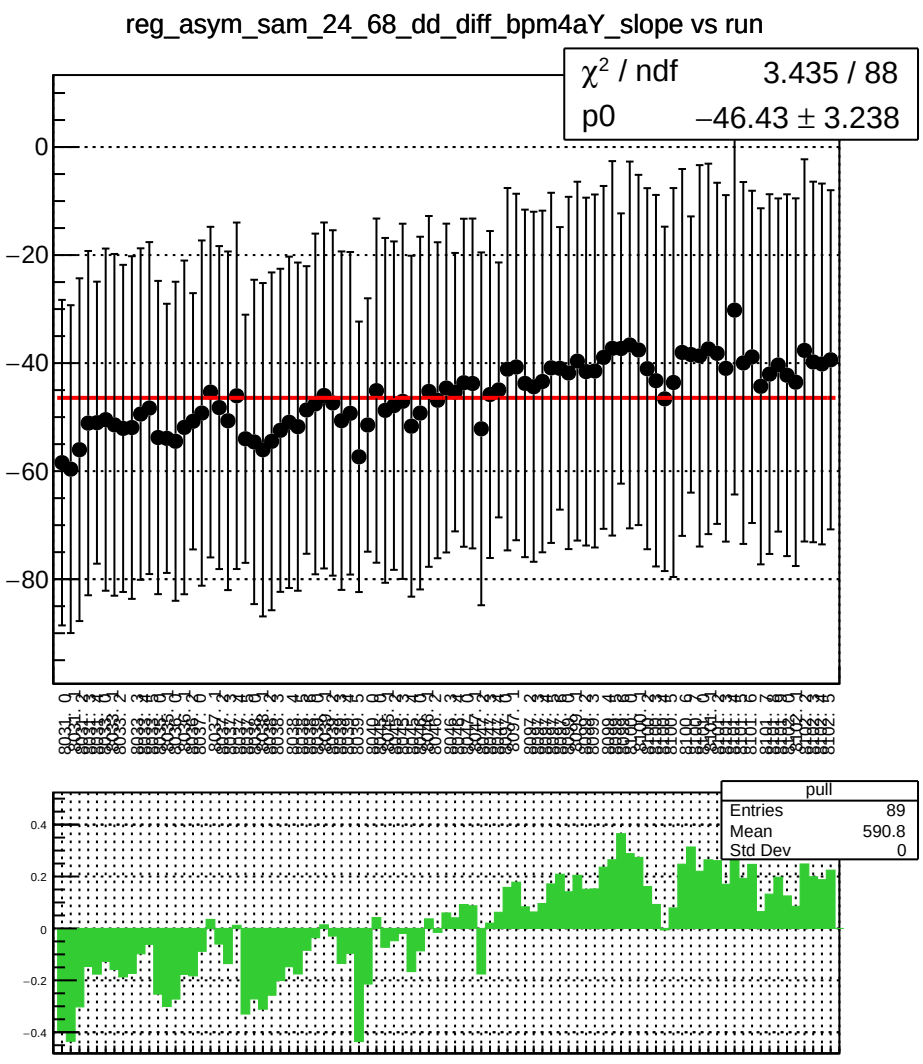

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.525 / 88
p0 17.31 ± 1.18
pull
Entries 89
Mean 130.5
Std Dev 0

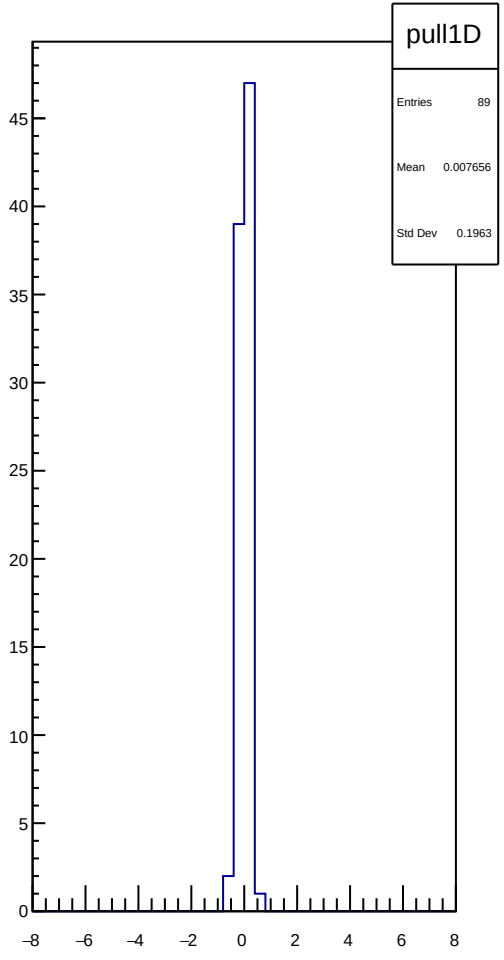

pull1D
Entries 89
Mean −0.03522
Std Dev 0.2685

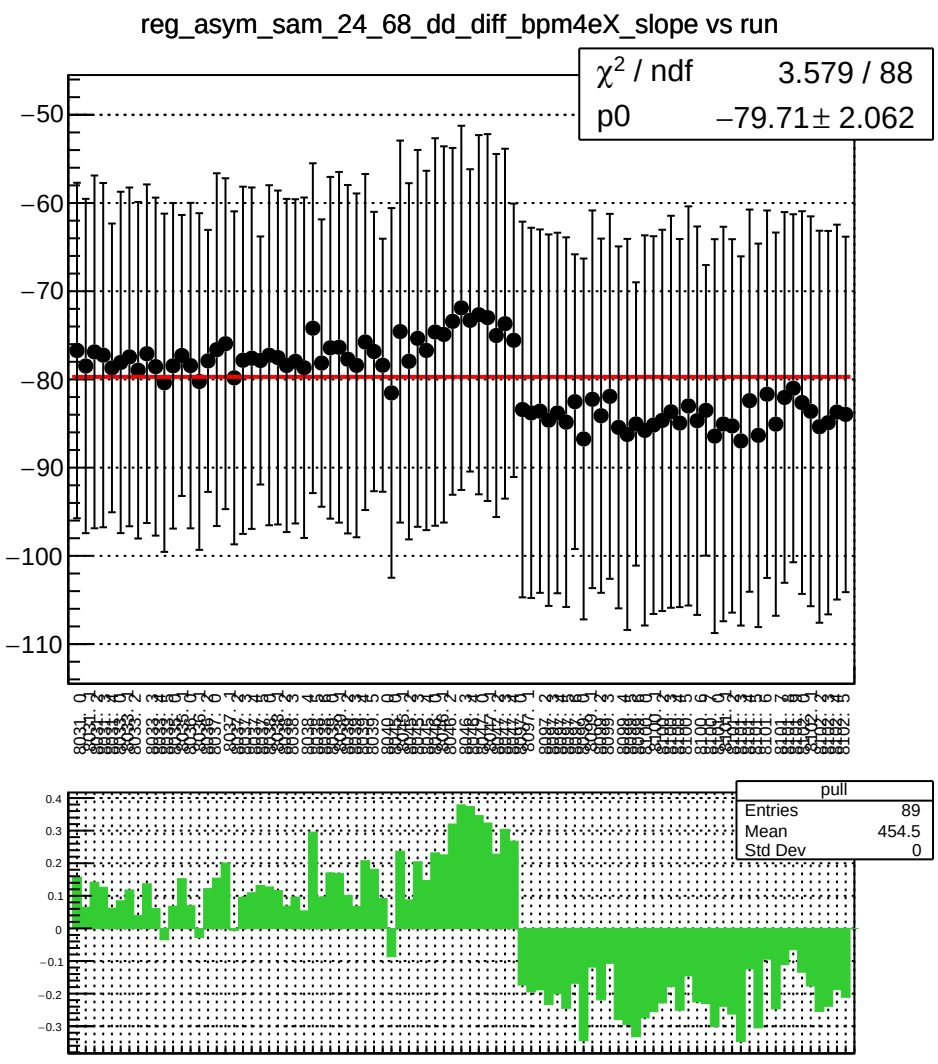

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 19.76 / 88
p0 −0.3983 ± 0.06176
0.5
0
−0.5
−1
−1.5
pull
Entries 89
Mean −209.1
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 89
Mean −0.04135
Std Dev 0.4694
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

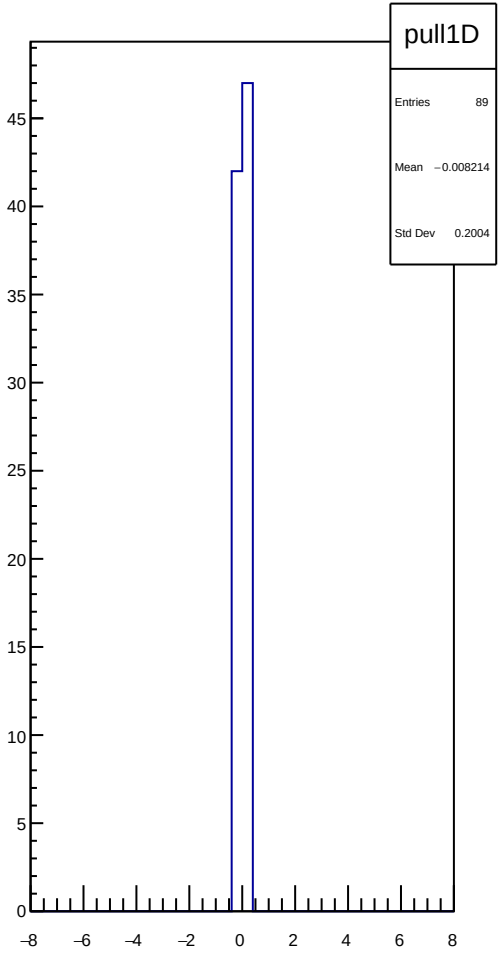

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 4.709 / 88
p0 −24.94 ± 1.926
pull
Entries 89
Mean 198.1
Std Dev 0

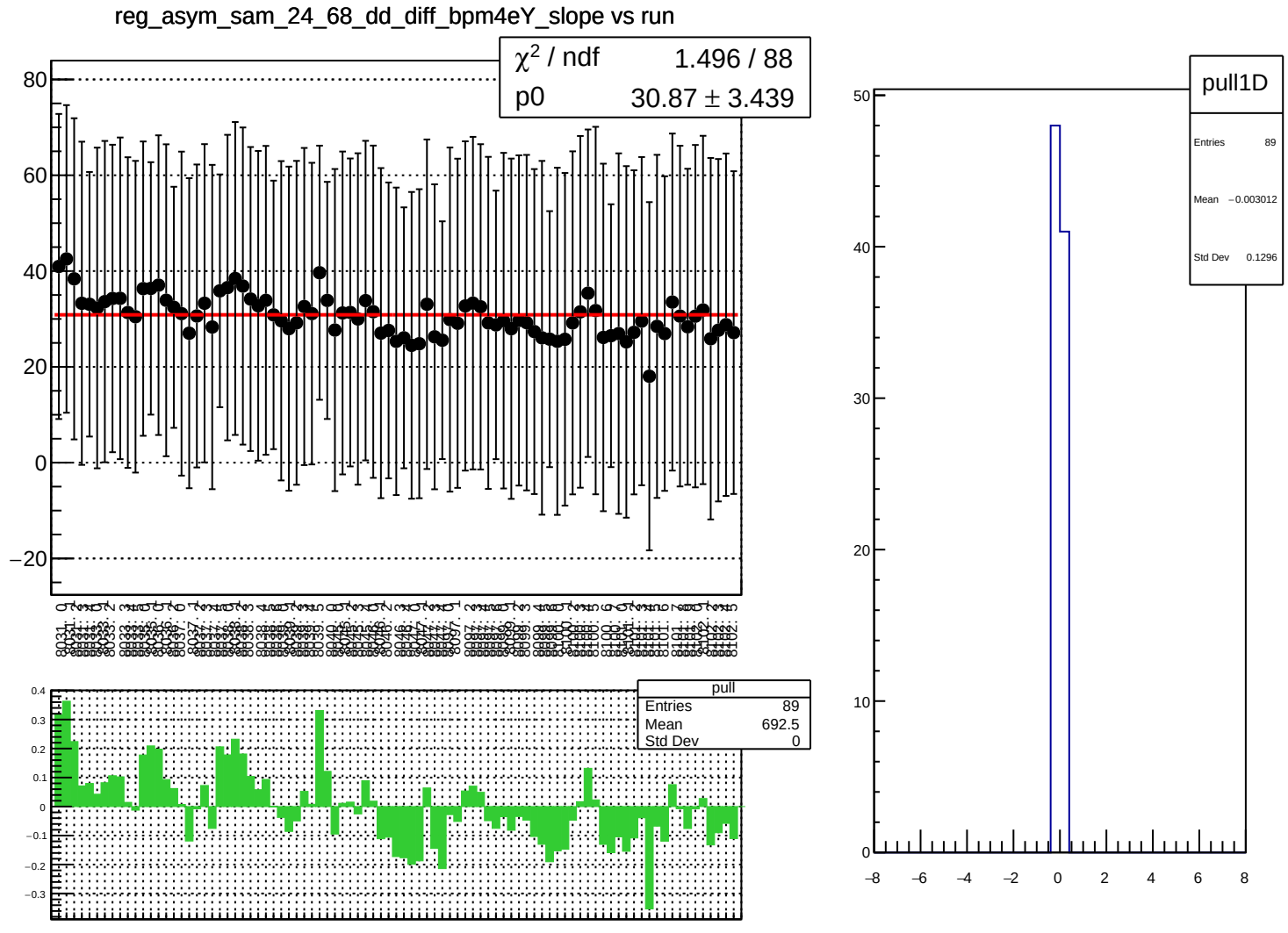

pull1D
Entries 89
Mean −0.03004
Std Dev 0.2281

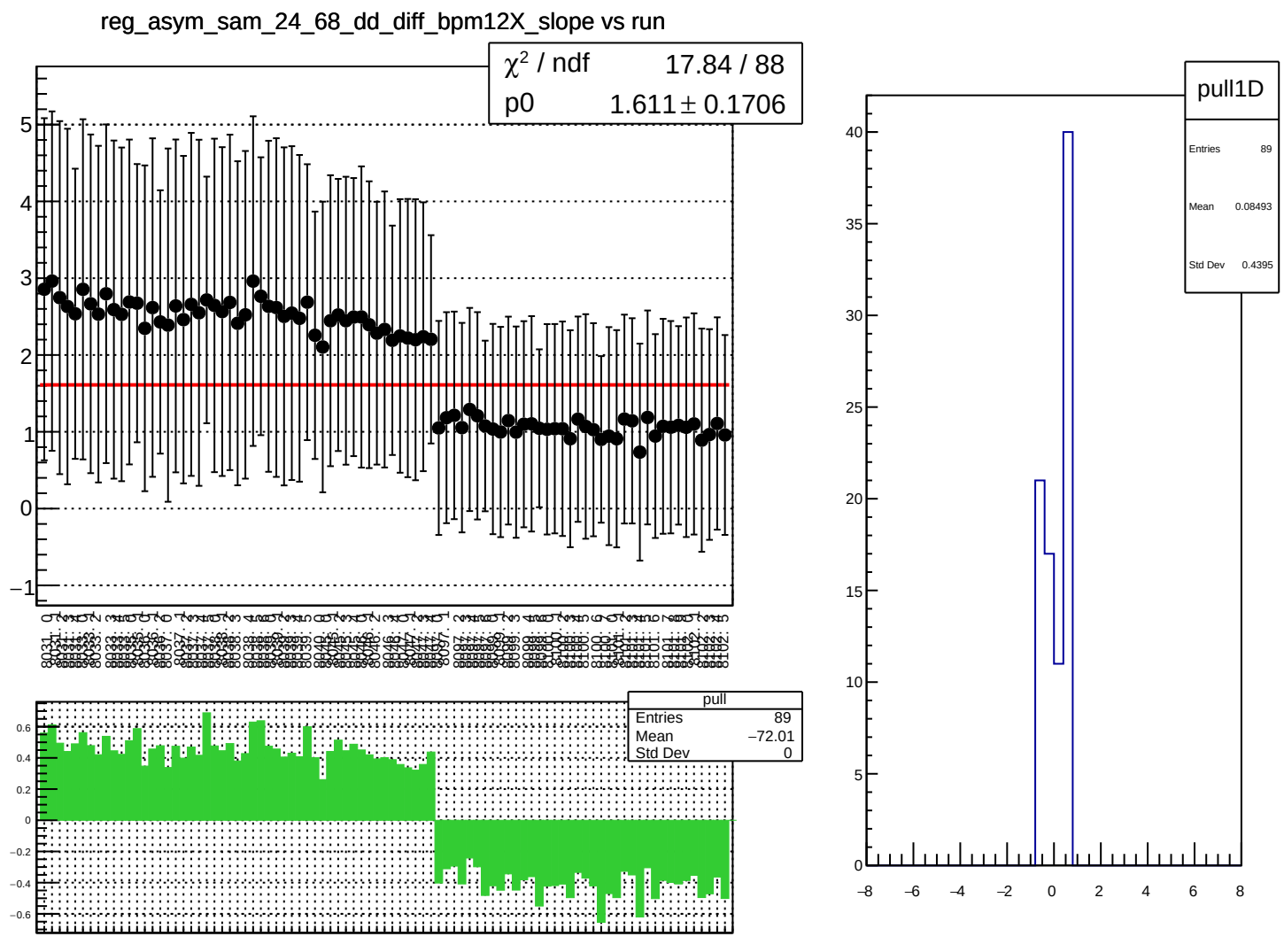

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.435 / 88
p0 −46.43 ± 3.238
0
−20
−40
−60
−80
pull
Entries 89
Mean 590.8
Std Dev 0
0.4
0.2
0
−0.2
−0.4

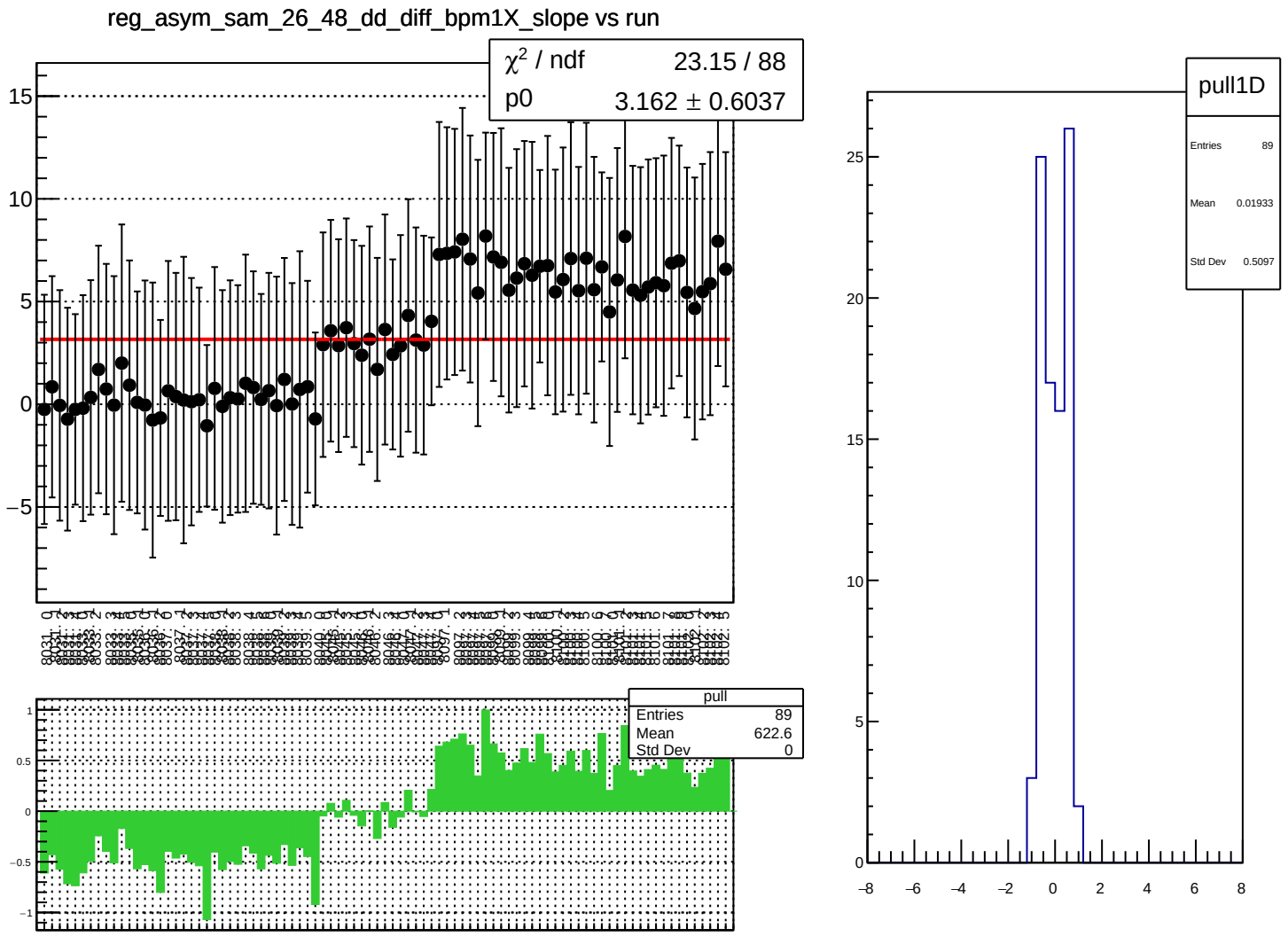

pull1D
Entries 89
Mean 0.007656
Std Dev 0.1963
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

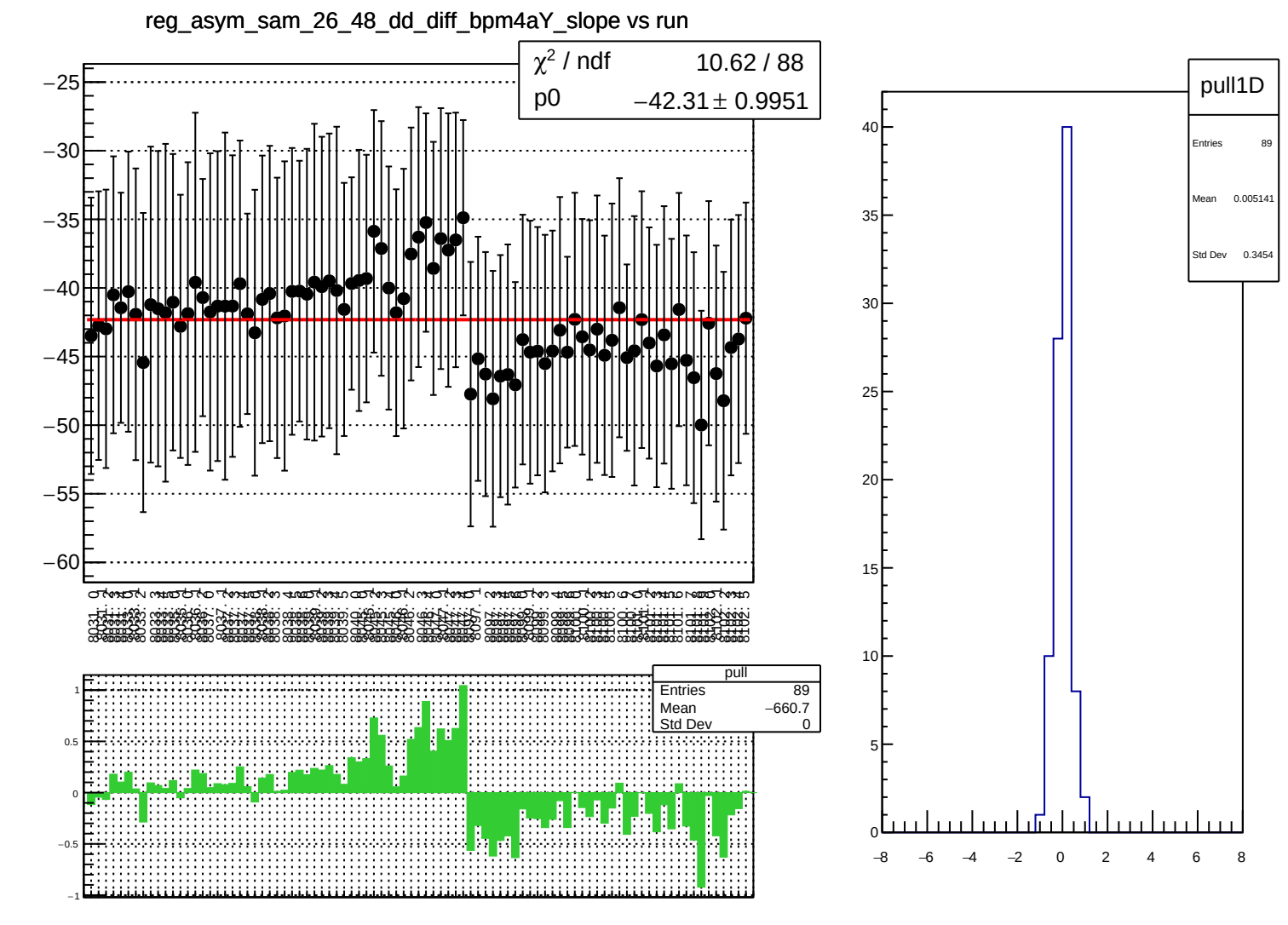

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.579 / 88
p0 −79.71 ± 2.062
pull
Entries 89
Mean 454.5
Std Dev 0

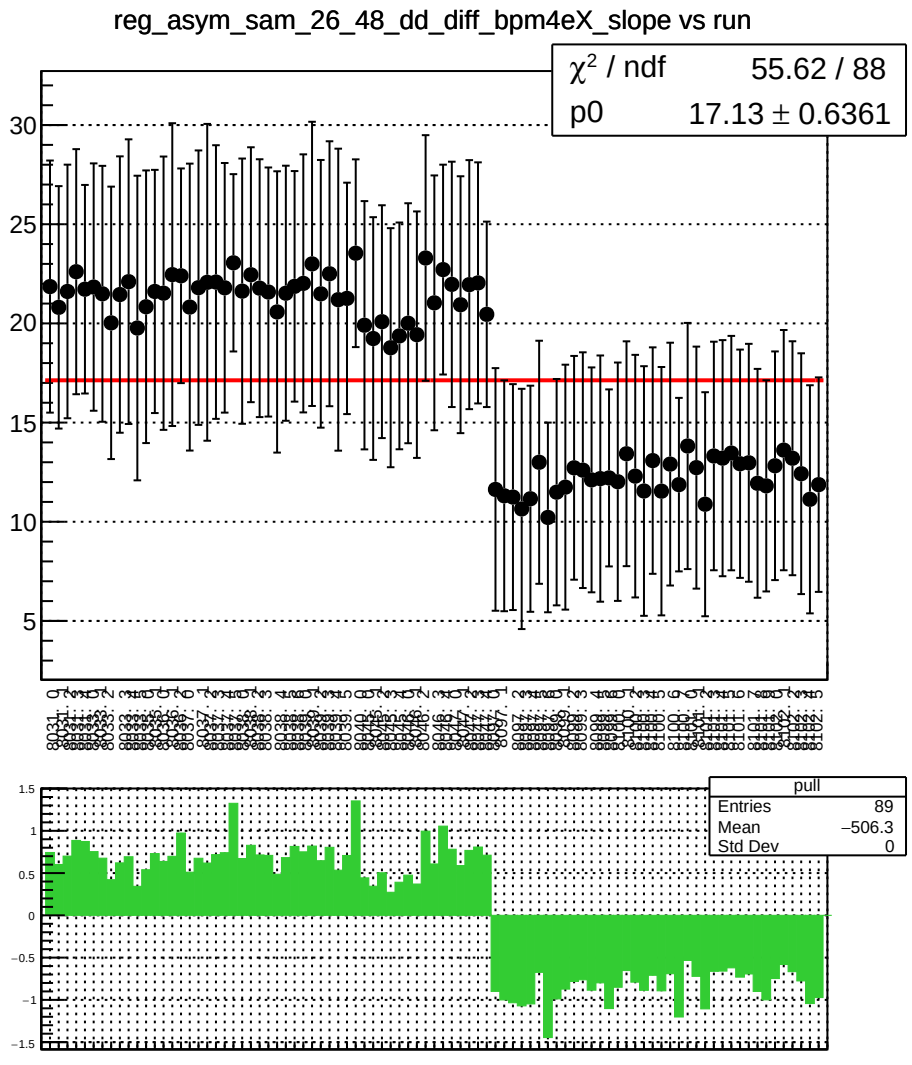

pull1D
Entries 89
Mean −0.008214
Std Dev 0.2004

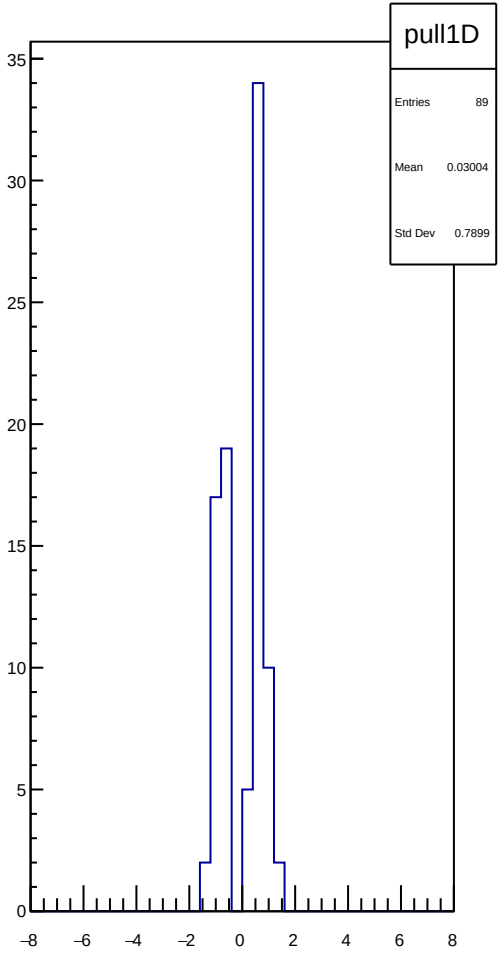

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.496 / 88
p0 30.87 ± 3.439
pull
Entries 89
Mean 692.5
Std Dev 0
pull1D
Entries 89
Mean −0.003012
Std Dev 0.1296

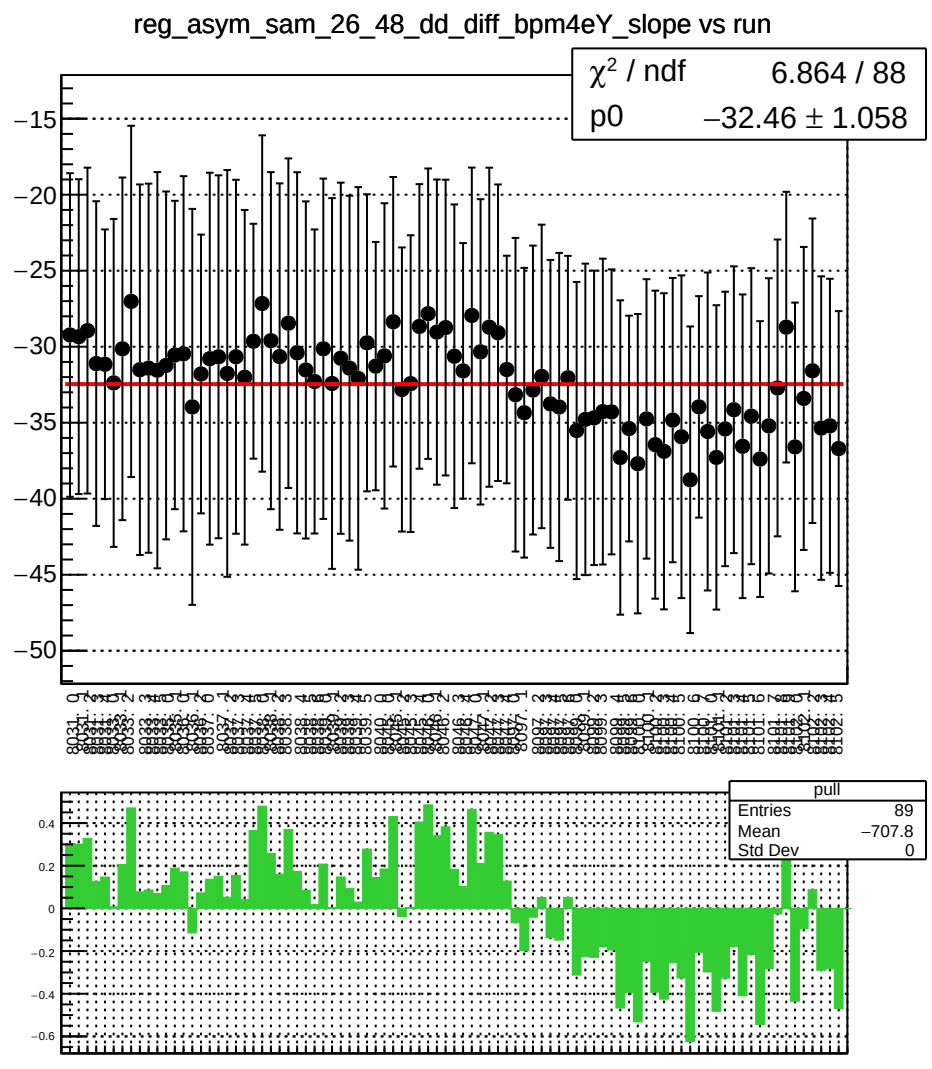

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 17.84 / 88
p0 1.611 ± 0.1706
pull
Entries 89
Mean −72.01
Std Dev 0
pull1D
Entries 89
Mean 0.08493
Std Dev 0.4395

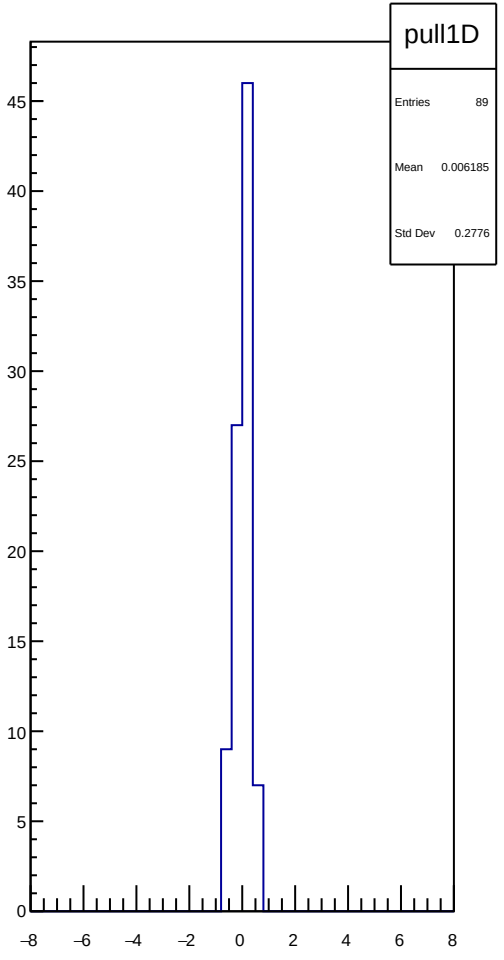

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 23.15 / 88
p0 3.162 ± 0.6037
pull
Entries 89
Mean 622.6
Std Dev 0
pull1D
Entries 89
Mean 0.01933
Std Dev 0.5097

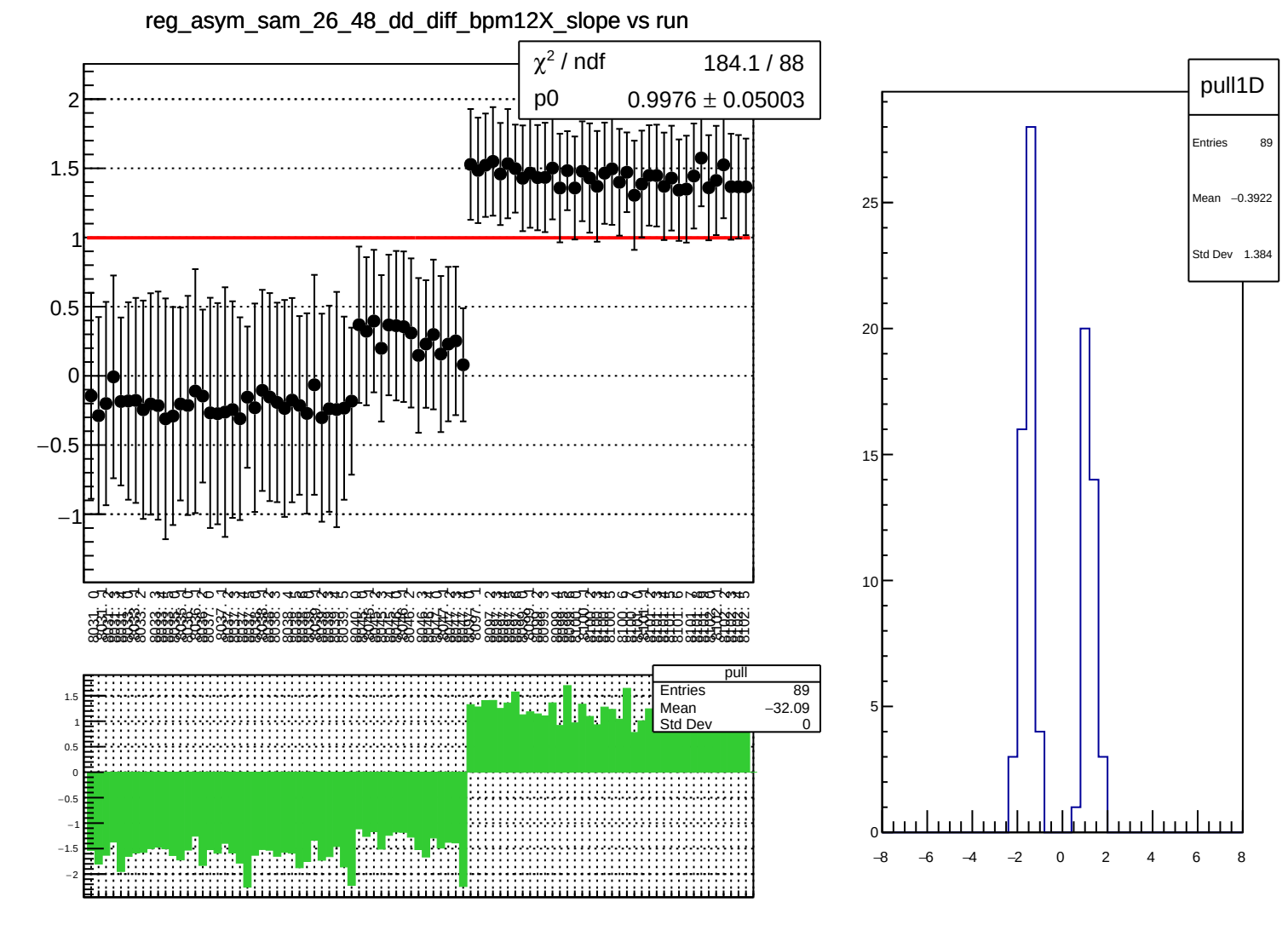

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.62 / 88
p0 −42.31 ± 0.9951
pull
Entries 89
Mean −660.7
Std Dev 0
pull1D
Entries 89
Mean 0.005141
Std Dev 0.3454

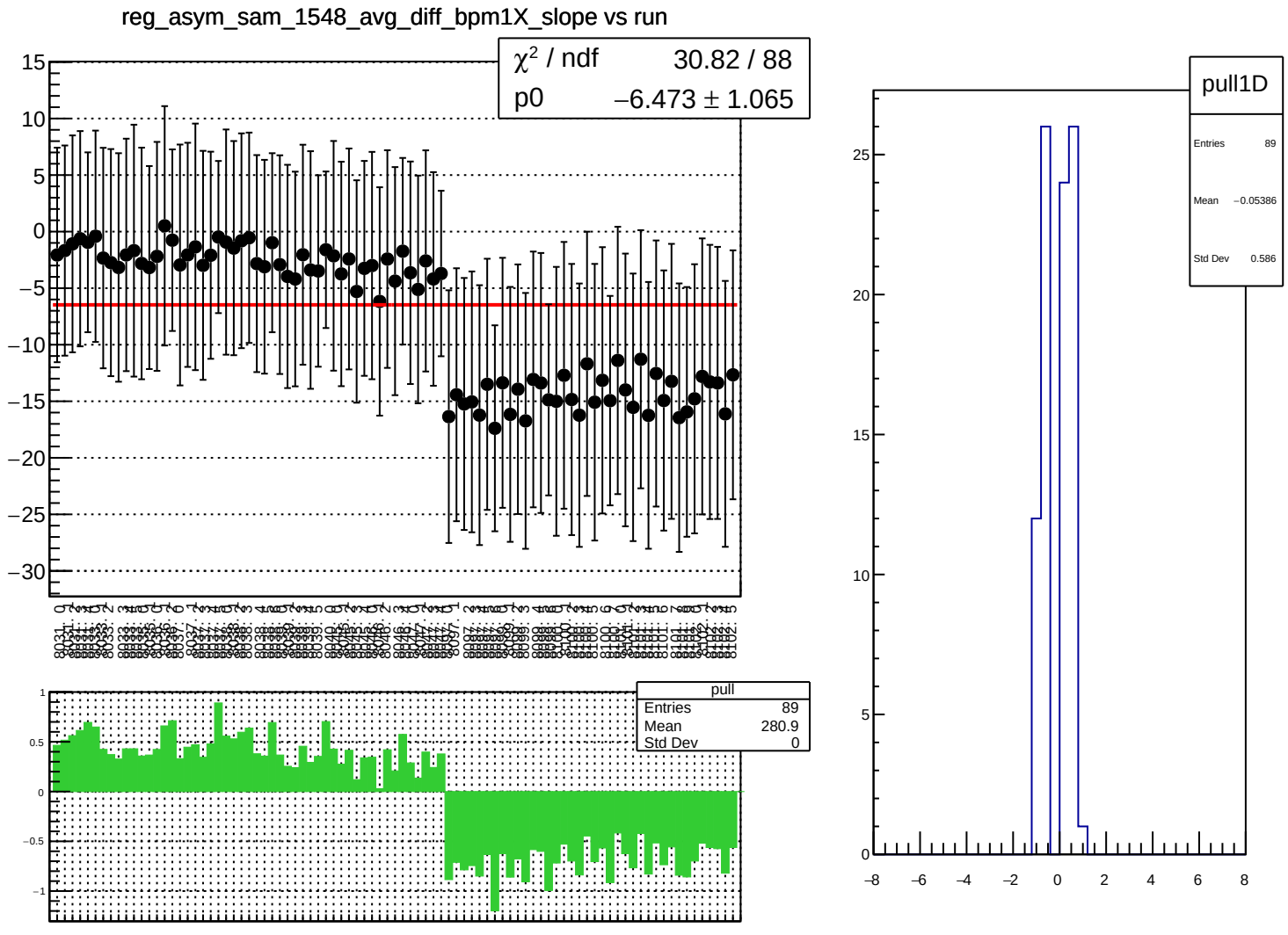

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 55.62 / 88
p0 17.13 ± 0.6361
pull
Entries 89
Mean −506.3
Std Dev 0

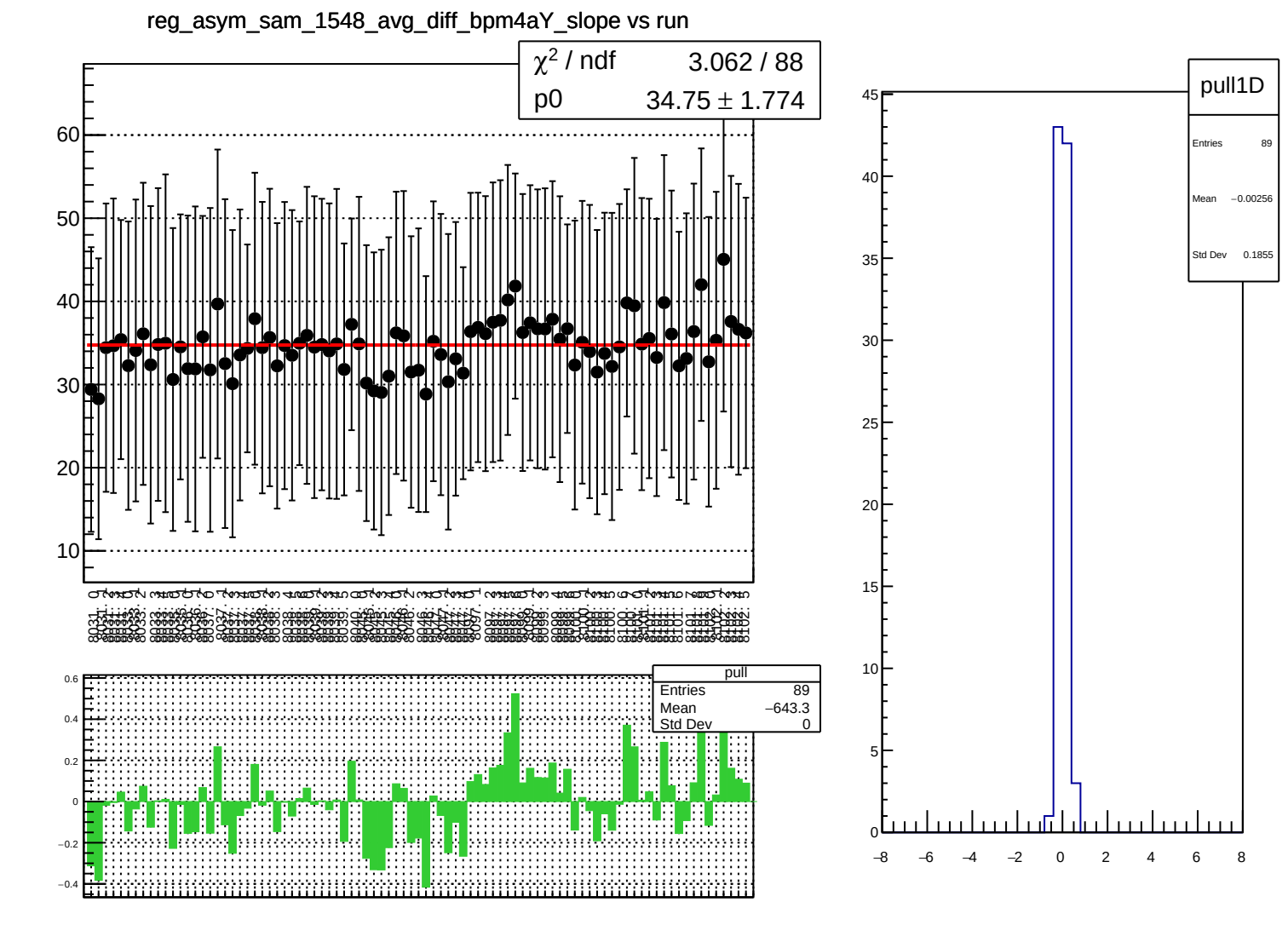

pull1D
Entries 89
Mean 0.03004
Std Dev 0.7899

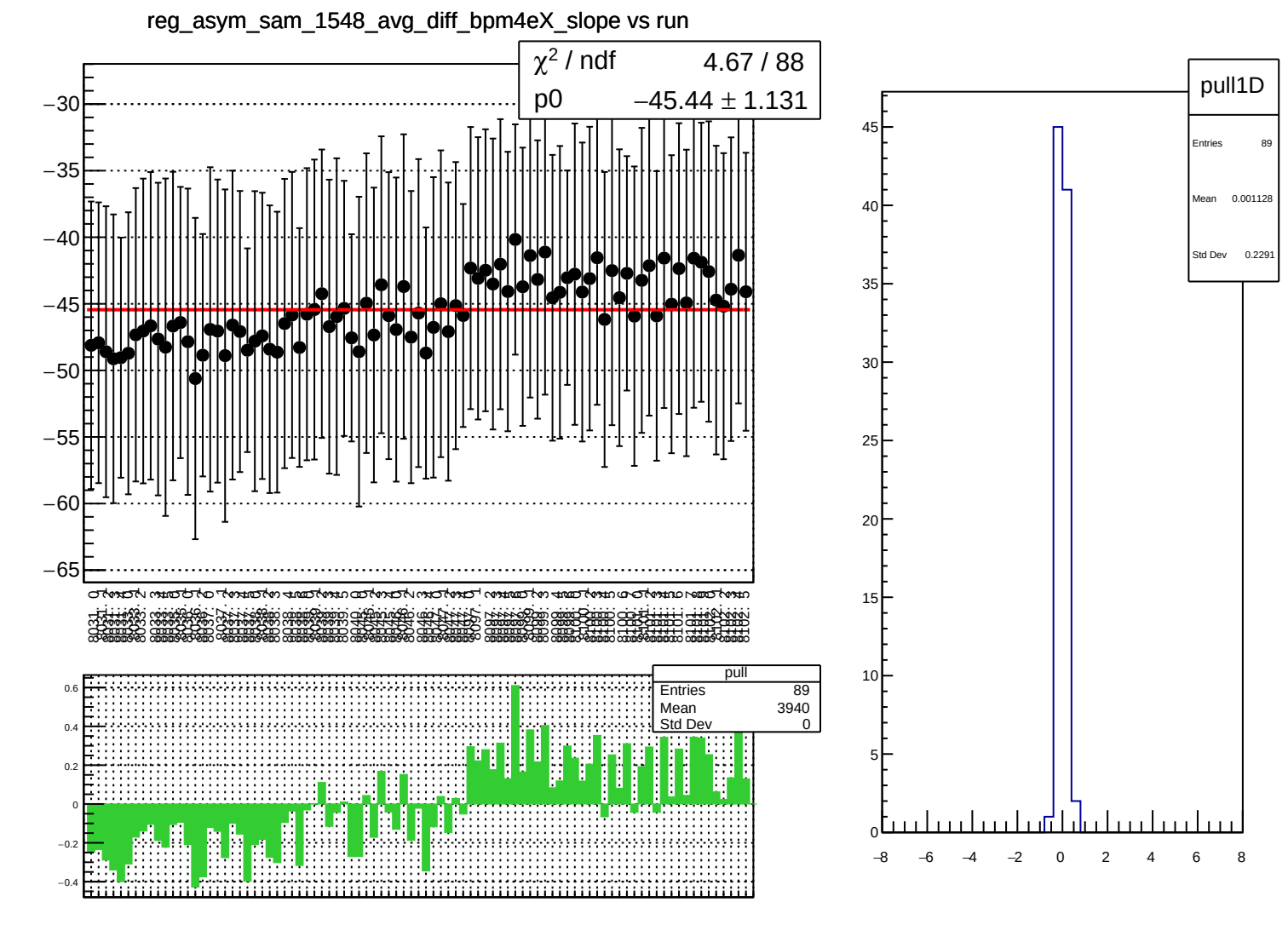

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.864 / 88
p0 −32.46 ± 1.058
pull
Entries 89
Mean −707.8
Std Dev 0

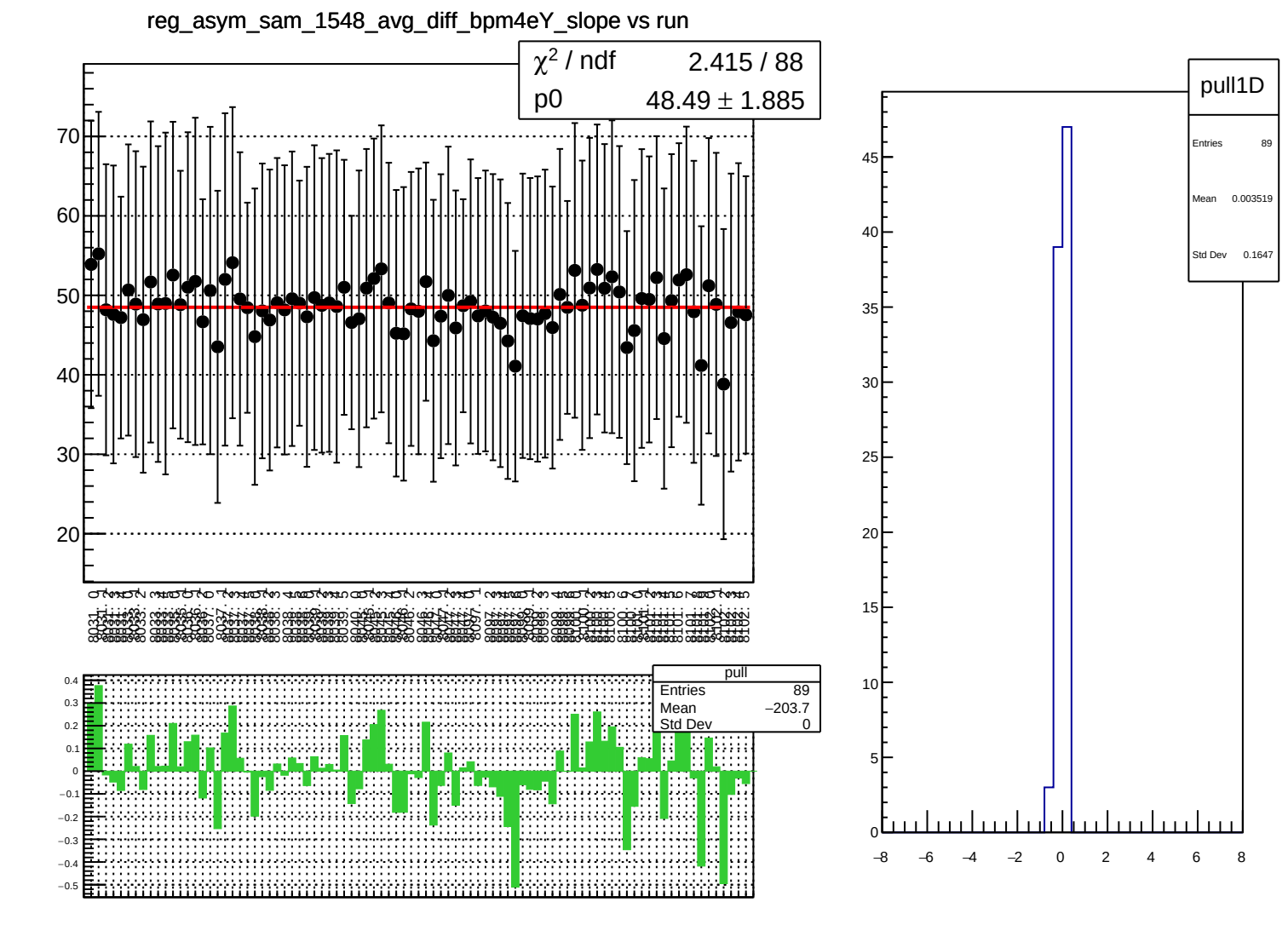

pull1D
Entries 89
Mean 0.006185
Std Dev 0.2776

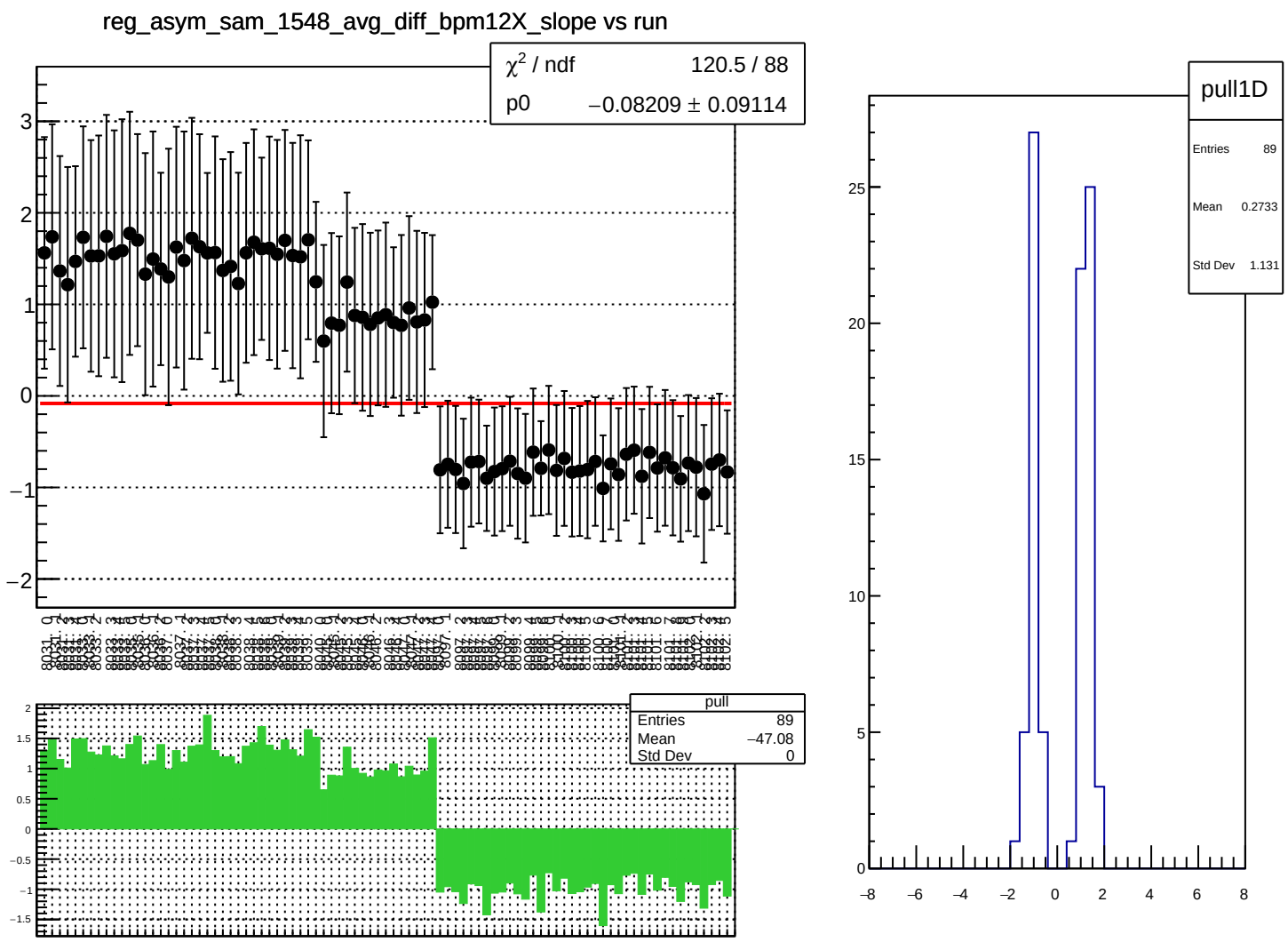

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 184.1 / 88
p0 0.9976 ± 0.05003
pull
Entries 89
Mean −32.09
Std Dev 0
pull1D
Entries 89
Mean −0.3922
Std Dev 1.384

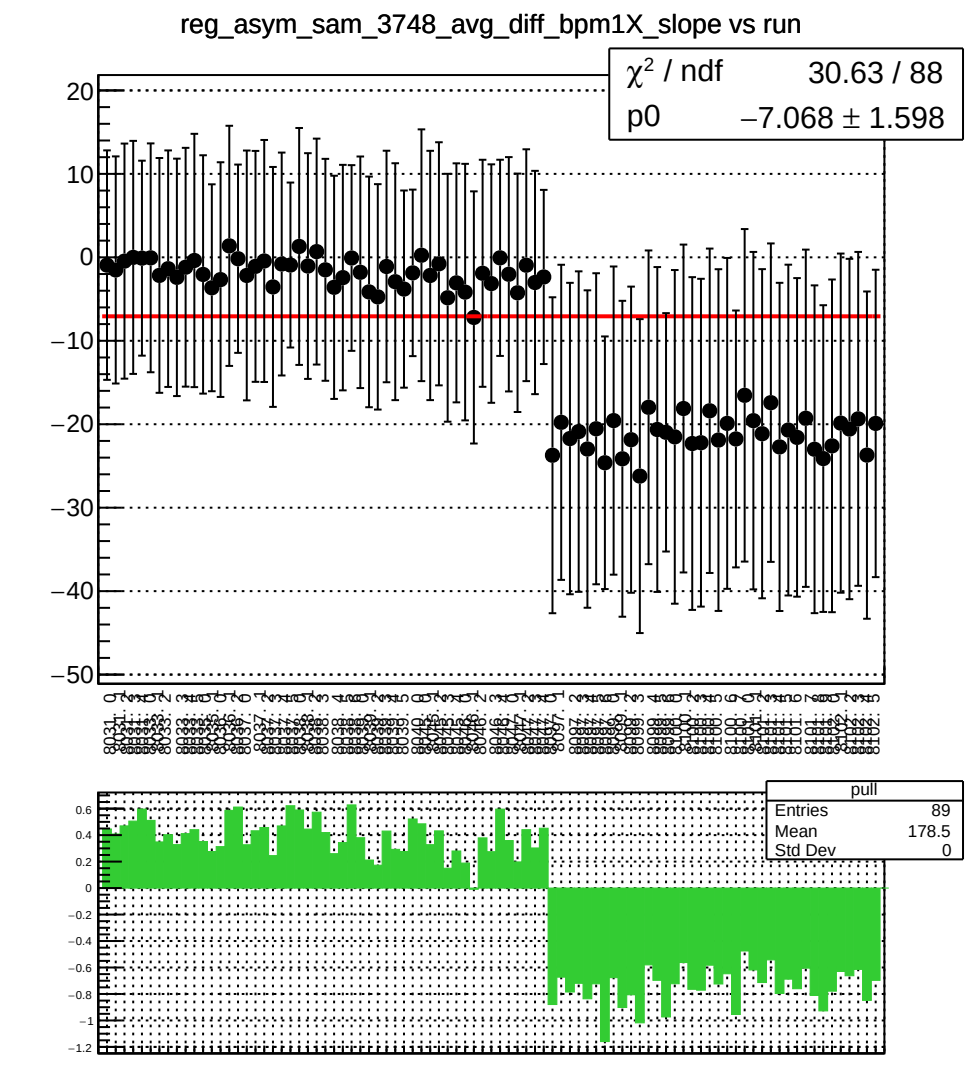

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 30.82 / 88
p0 −6.473 ± 1.065
pull
Entries 89
Mean 280.9
Std Dev 0
pull1D
Entries 89
Mean −0.05386
Std Dev 0.586

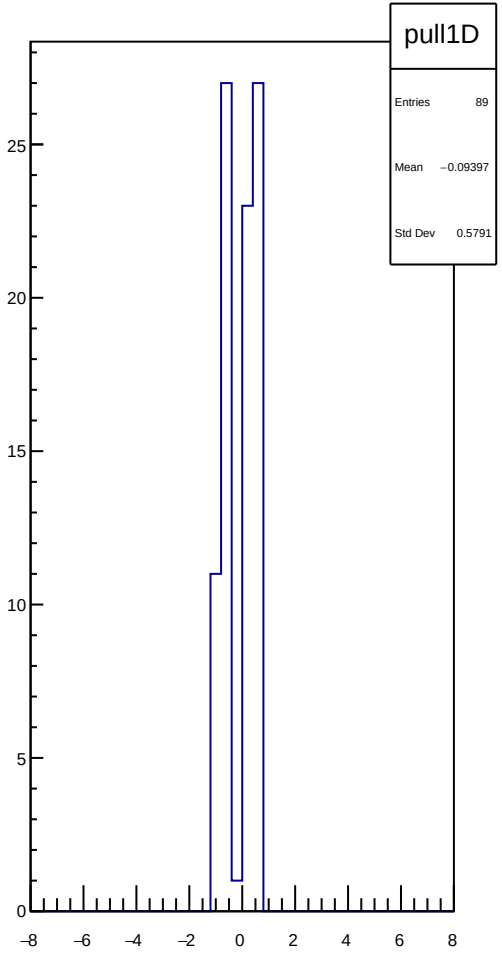

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.062 / 88
p0 34.75 ± 1.774
pull
Entries 89
Mean −643.3
Std Dev 0
pull1D
Entries 89
Mean −0.00256
Std Dev 0.1855

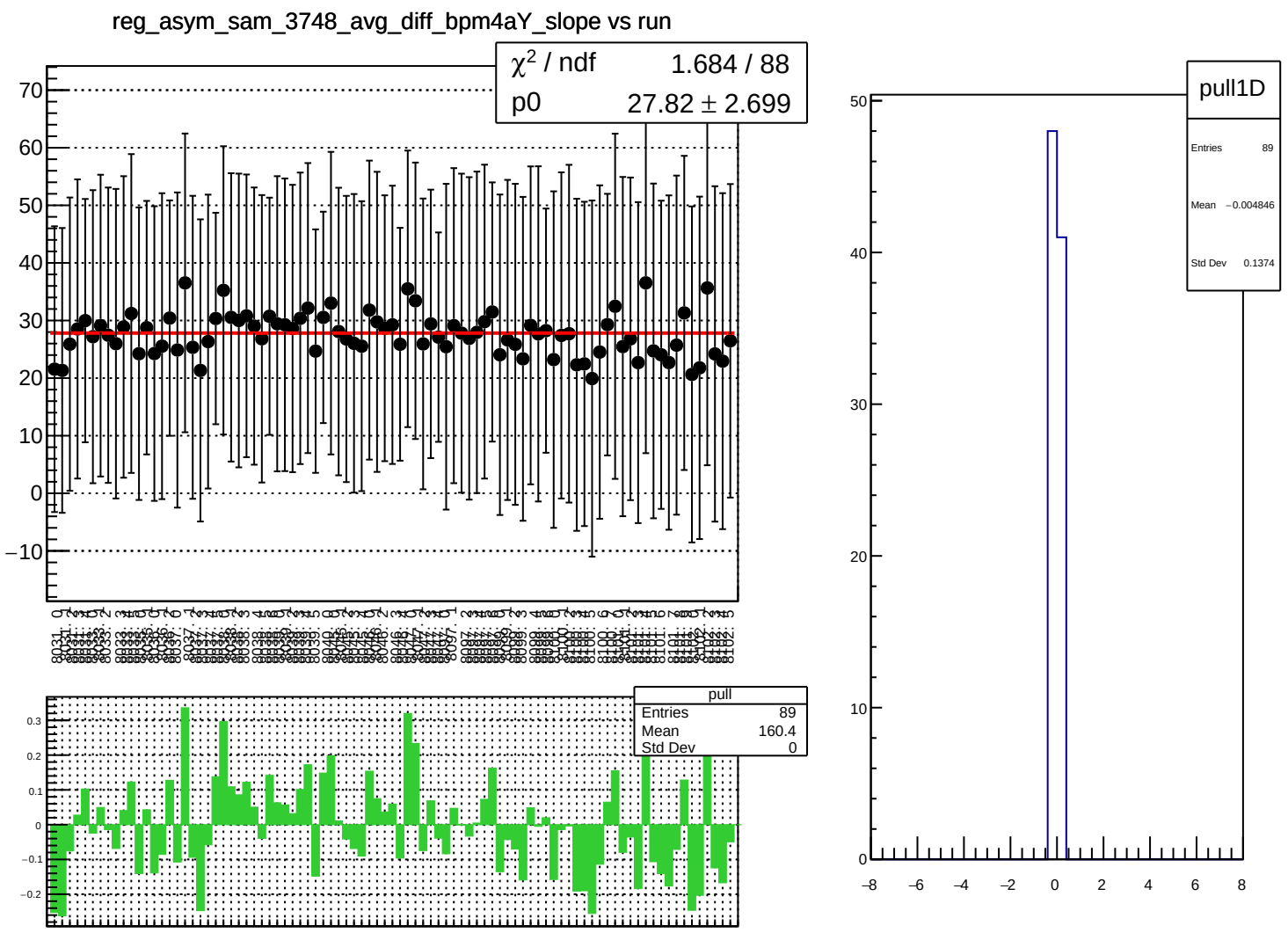

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.67 / 88
p0 −45.44 ± 1.131
pull
Entries 89
Mean 3940
Std Dev 0
pull1D
Entries 89
Mean 0.001128
Std Dev 0.2291

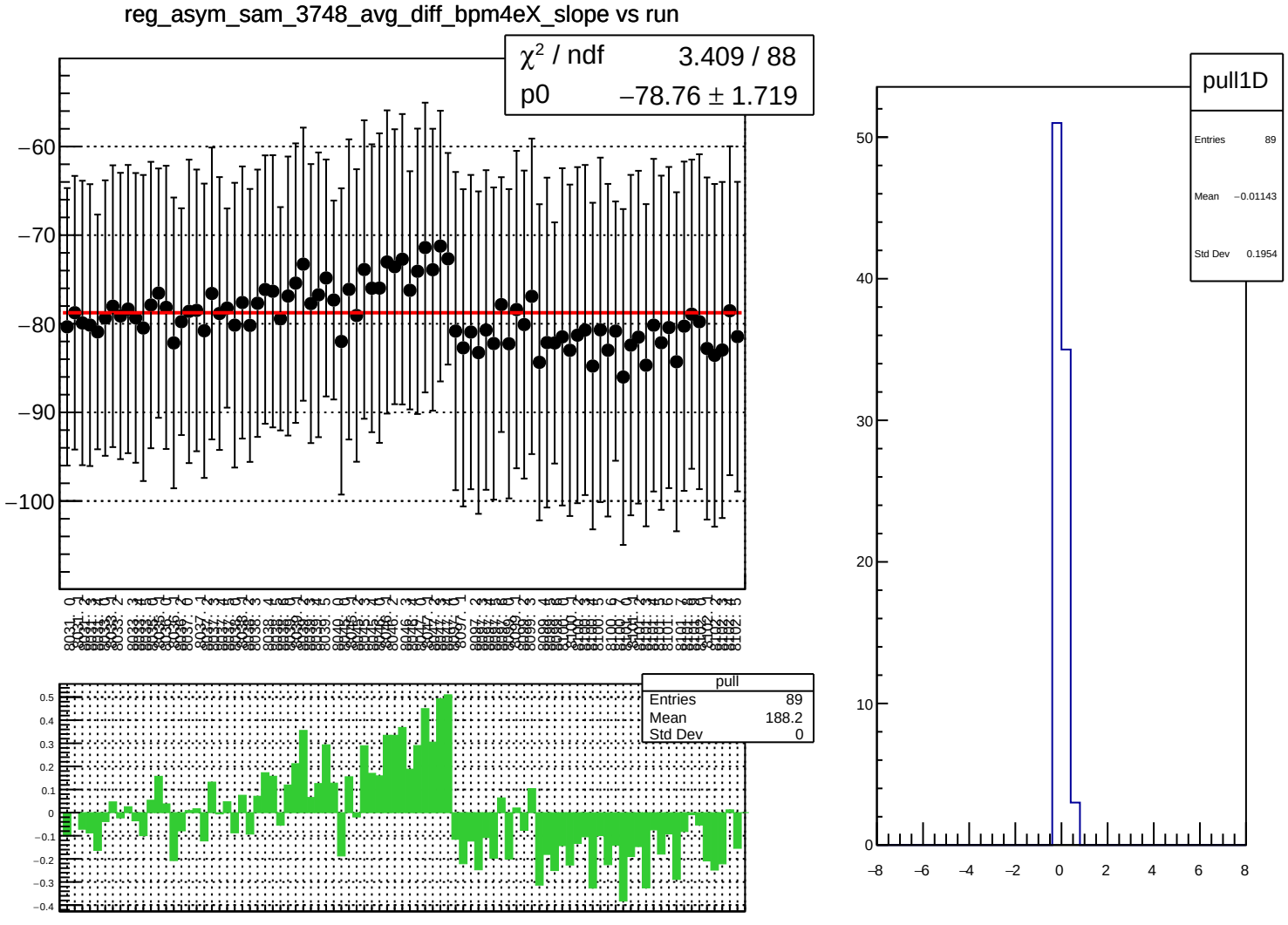

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.415 / 88
p0 48.49 ± 1.885
pull
Entries 89
Mean −203.7
Std Dev 0
pull1D
Entries 89
Mean 0.003519
Std Dev 0.1647

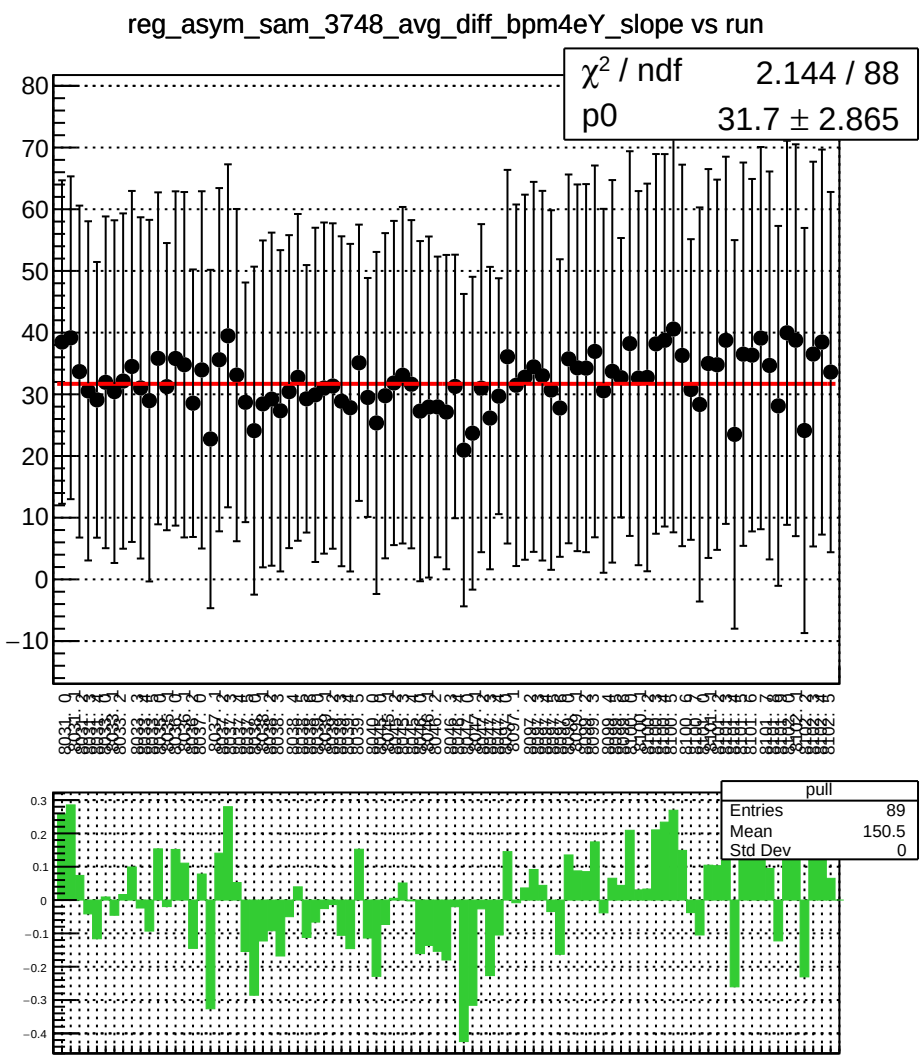

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 120.5 / 88
p0 −0.08209 ± 0.09114
pull
Entries 89
Mean −47.08
Std Dev 0
pull1D
Entries 89
Mean 0.2733
Std Dev 1.131

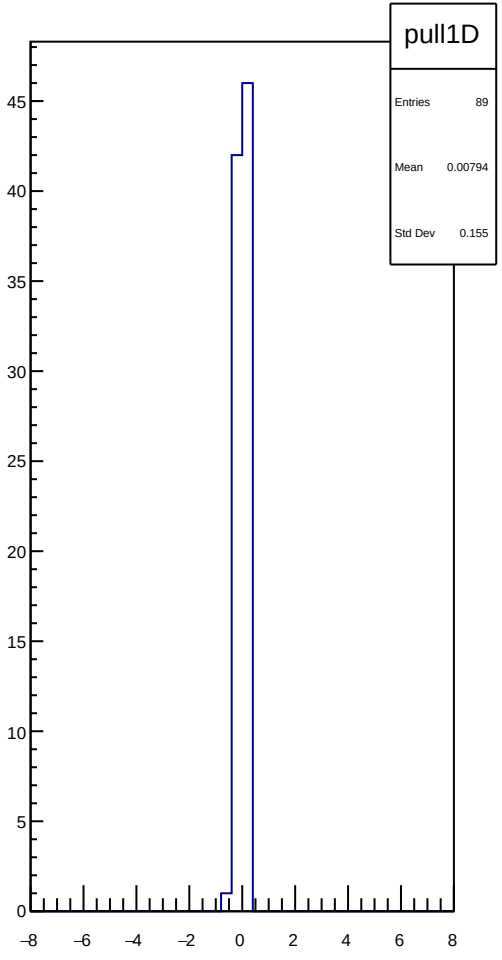

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 30.63 / 88
p0 −7.068 ± 1.598
pull
Entries 89
Mean 178.5
Std Dev 0

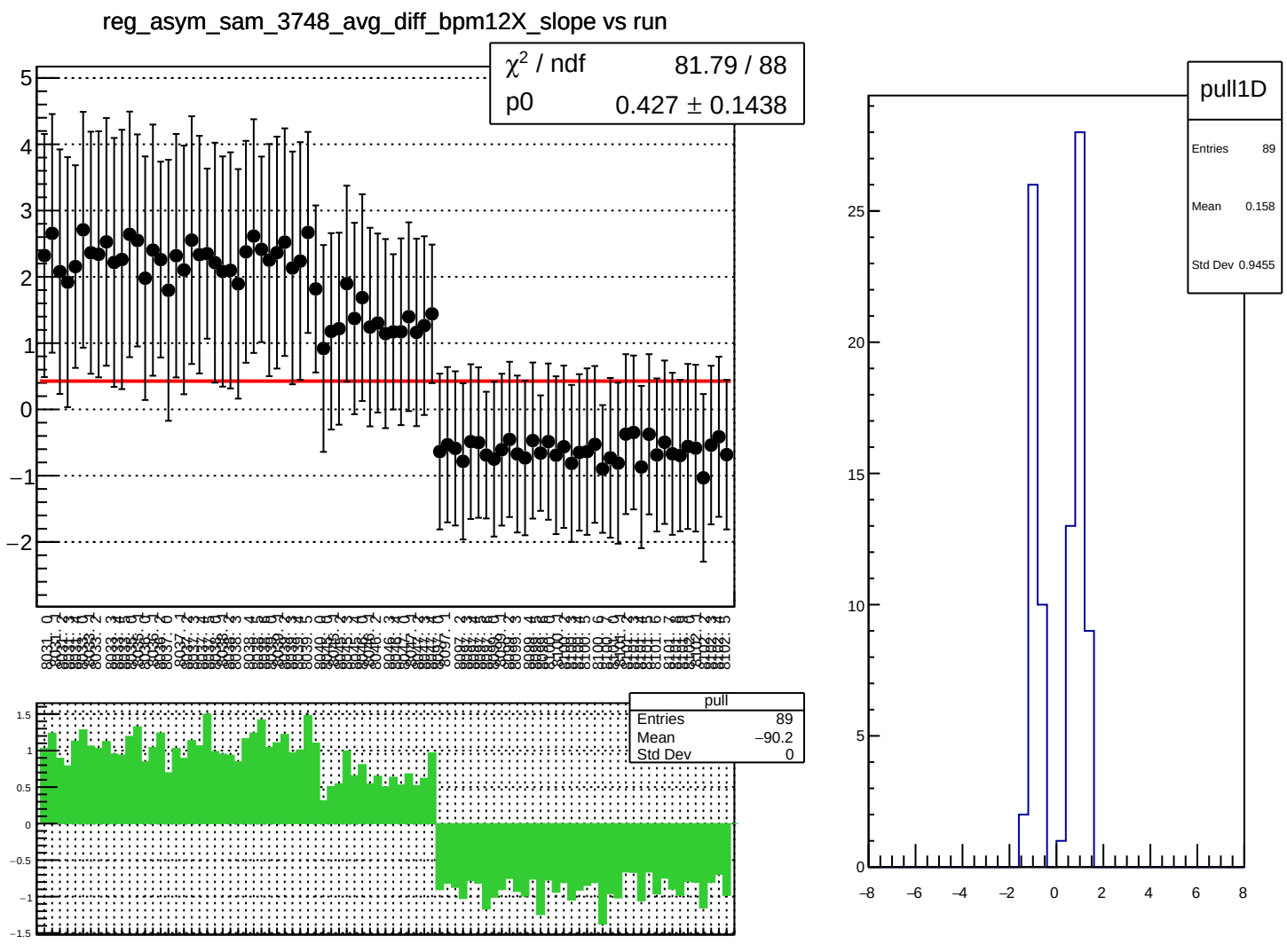

pull1D
Entries 89
Mean −0.09397
Std Dev 0.5791

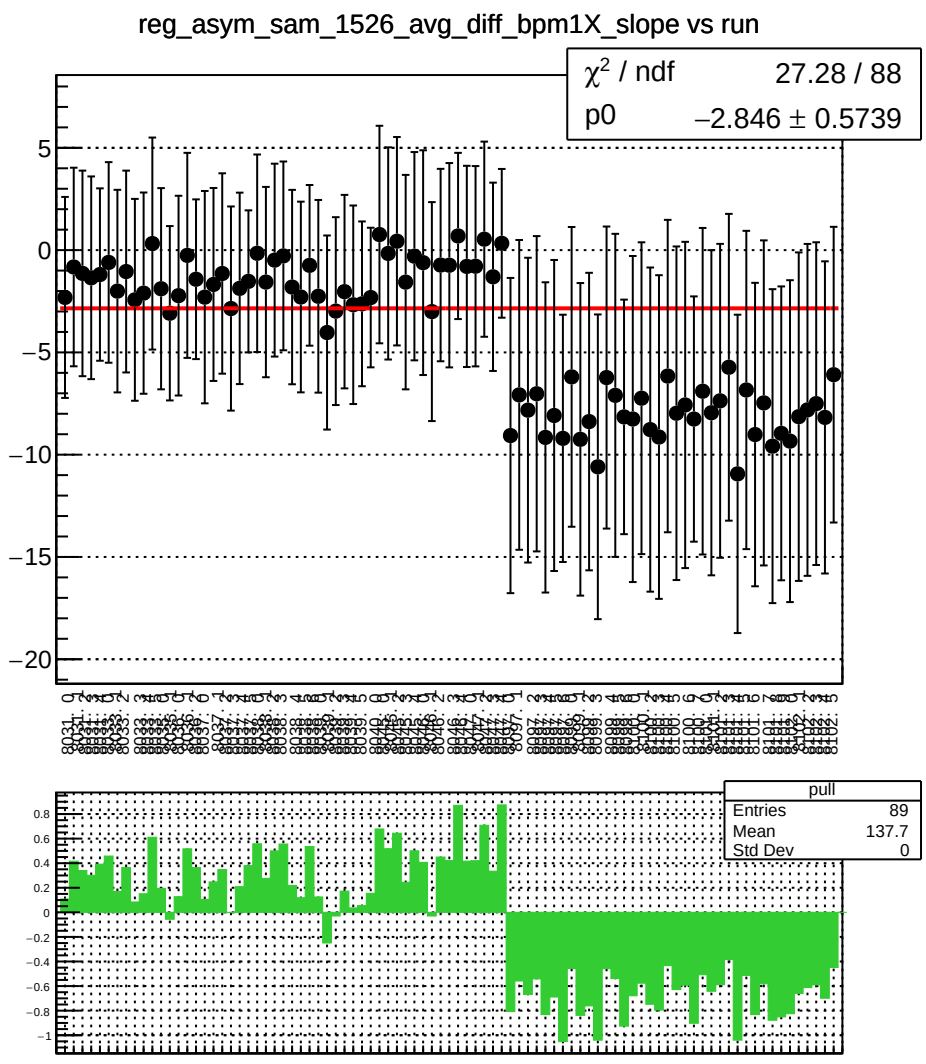

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.684 / 88
p0 27.82 ± 2.699
pull
Entries 89
Mean 160.4
Std Dev 0
pull1D
Entries 89
Mean −0.004846
Std Dev 0.1374

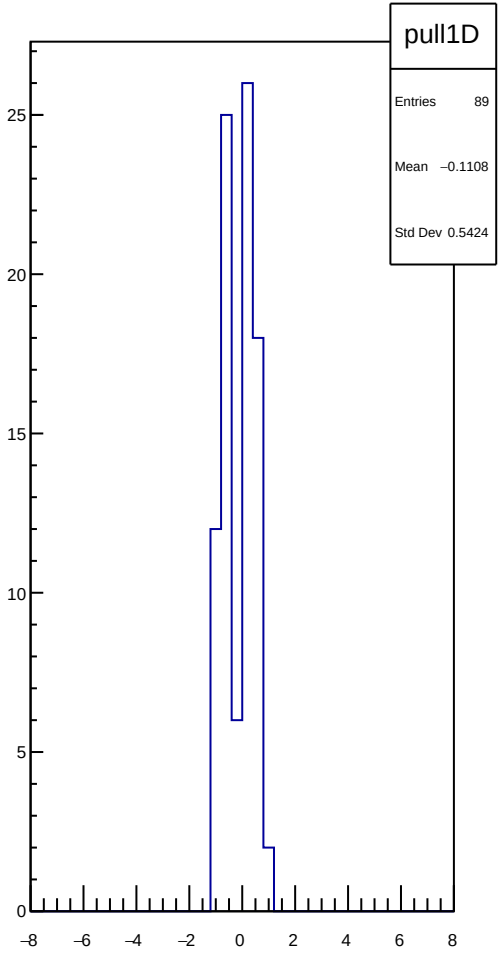

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.409 / 88
p0 −78.76 ± 1.719
pull
Entries 89
Mean 188.2
Std Dev 0
pull1D
Entries 89
Mean −0.01143
Std Dev 0.1954

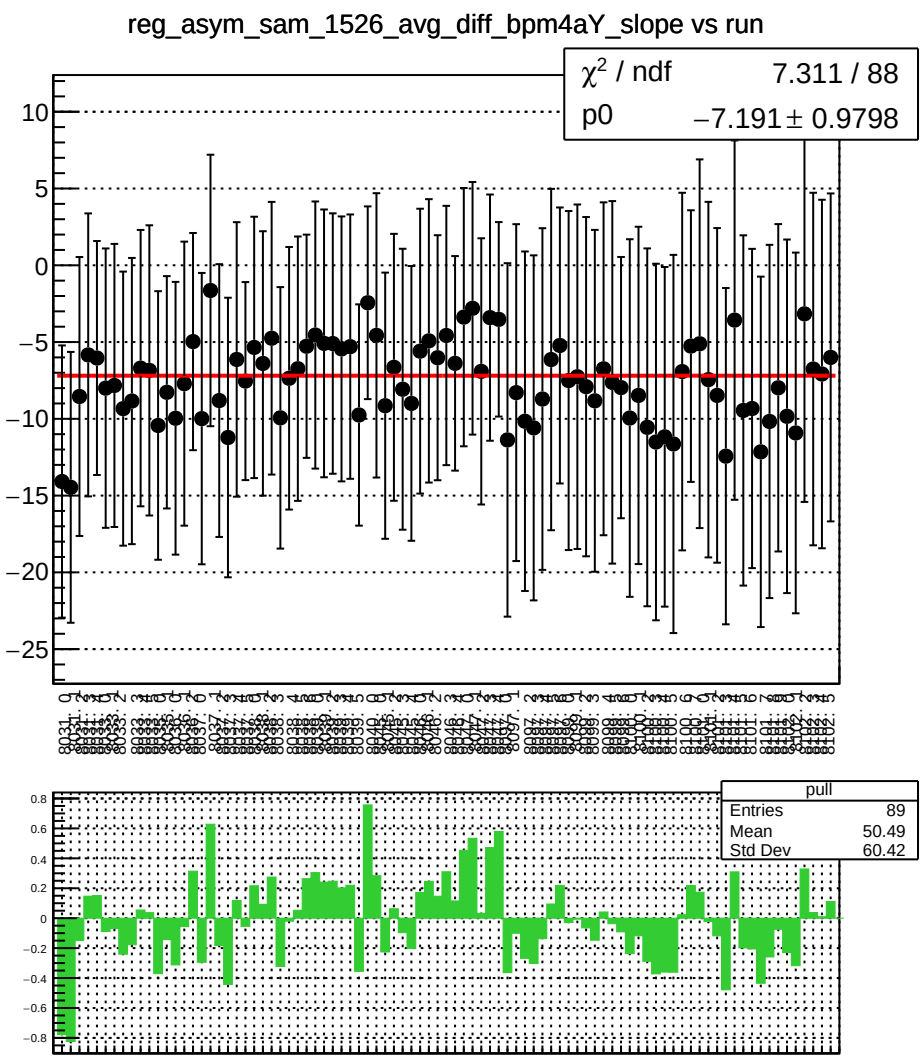

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.144 / 88
p0 31.7 ± 2.865
pull
Entries 89
Mean 150.5
Std Dev 0

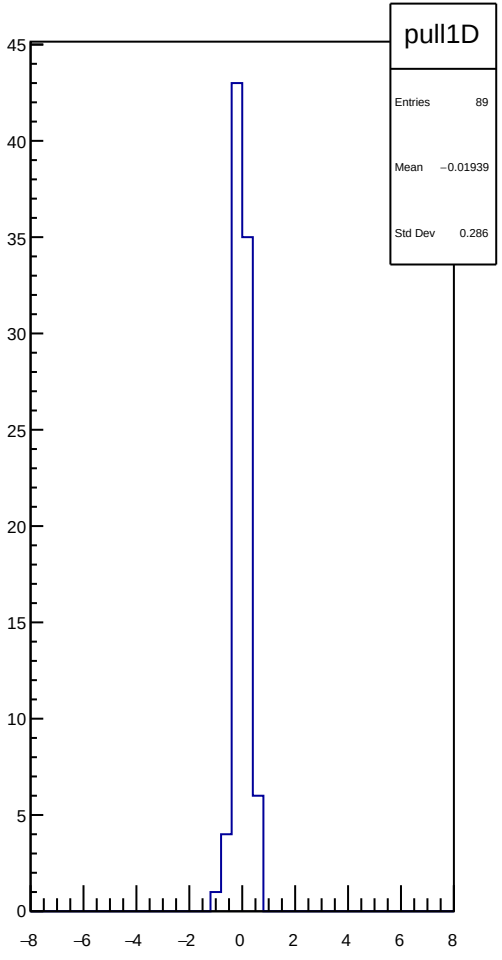

pull1D
Entries 89
Mean 0.00794
Std Dev 0.155

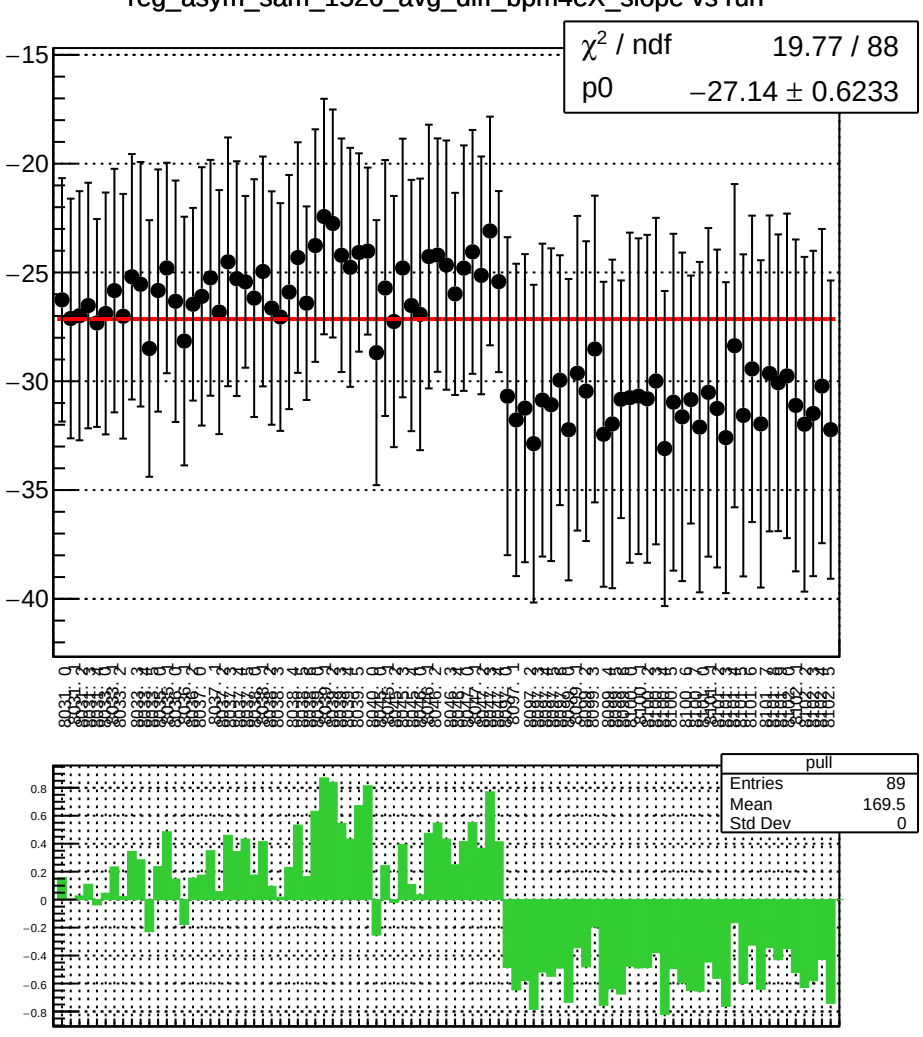

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 81.79 / 88
p0 0.427 ± 0.1438
pull
Entries 89
Mean −90.2
Std Dev 0
pull1D
Entries 89
Mean 0.158
Std Dev 0.9455

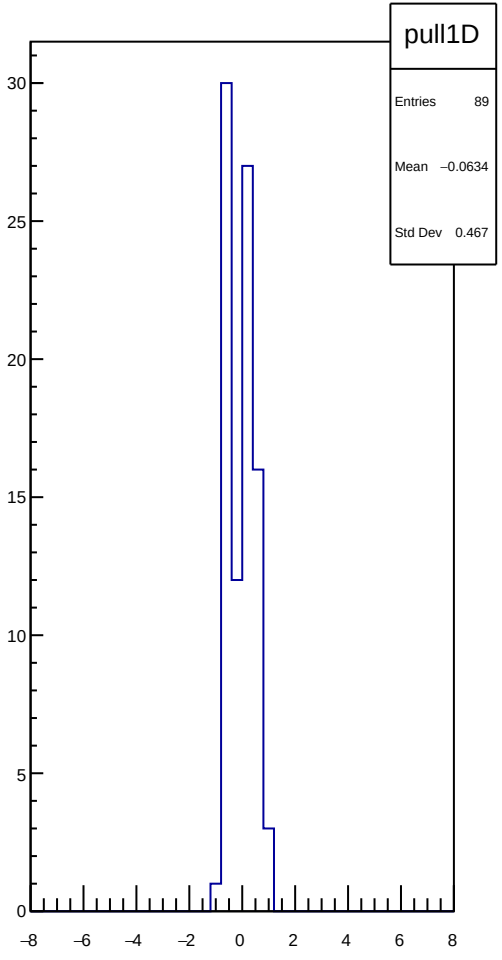

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 27.28 / 88
p0 −2.846 ± 0.5739
pull
Entries 89
Mean 137.7
Std Dev 0

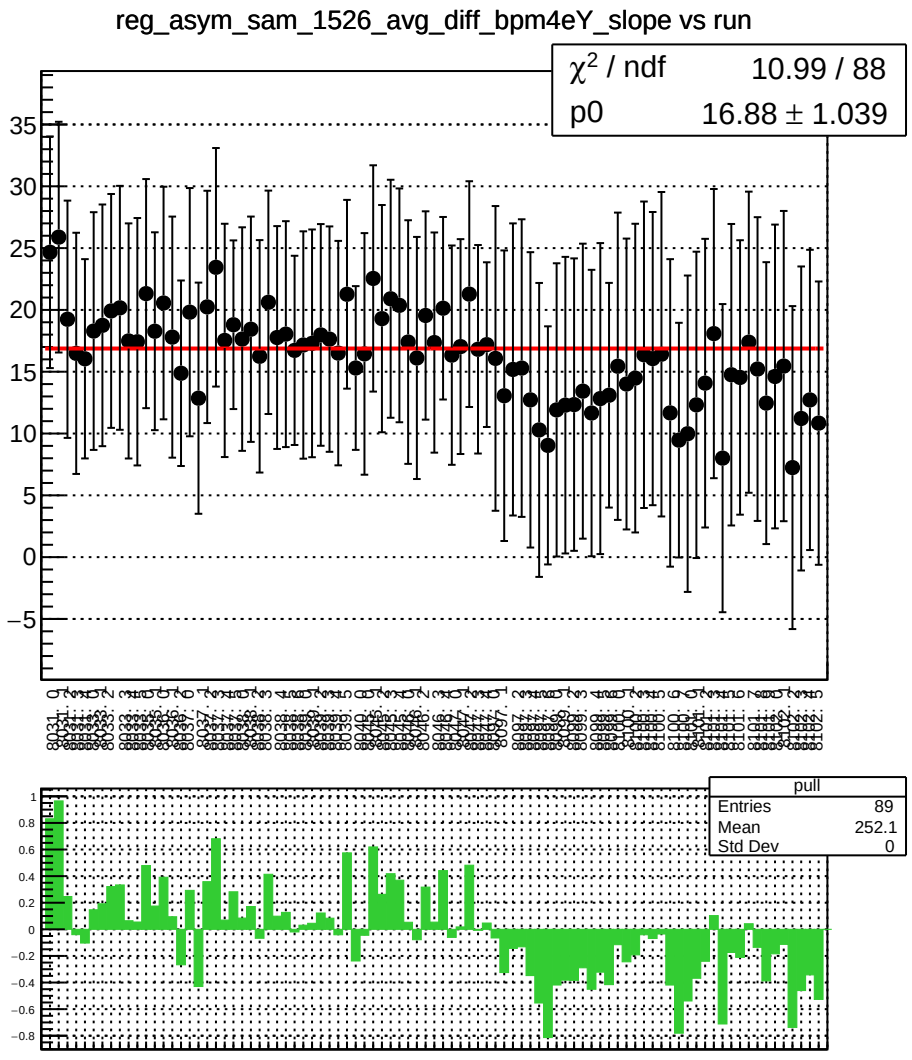

pull1D
Entries 89
Mean −0.1108
Std Dev 0.5424

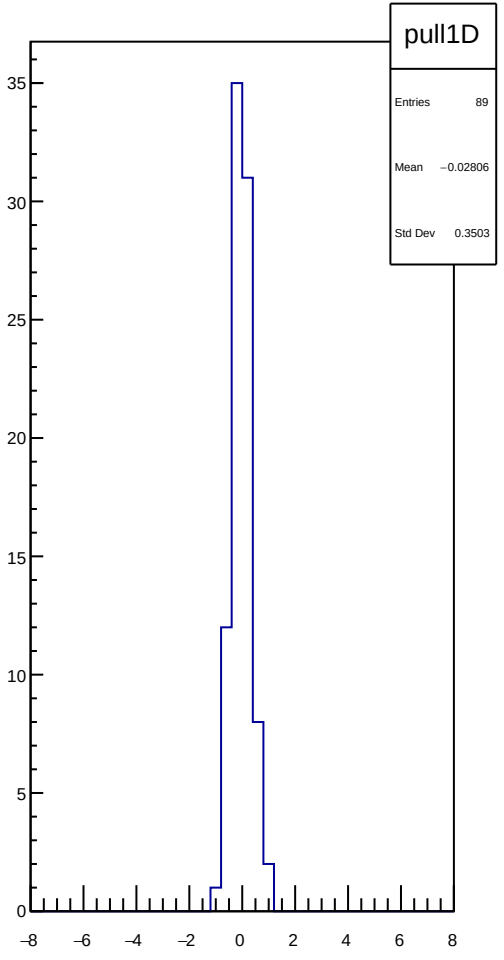

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.311 / 88
p0 −7.191 ± 0.9798
pull
Entries 89
Mean 50.49
Std Dev 60.42

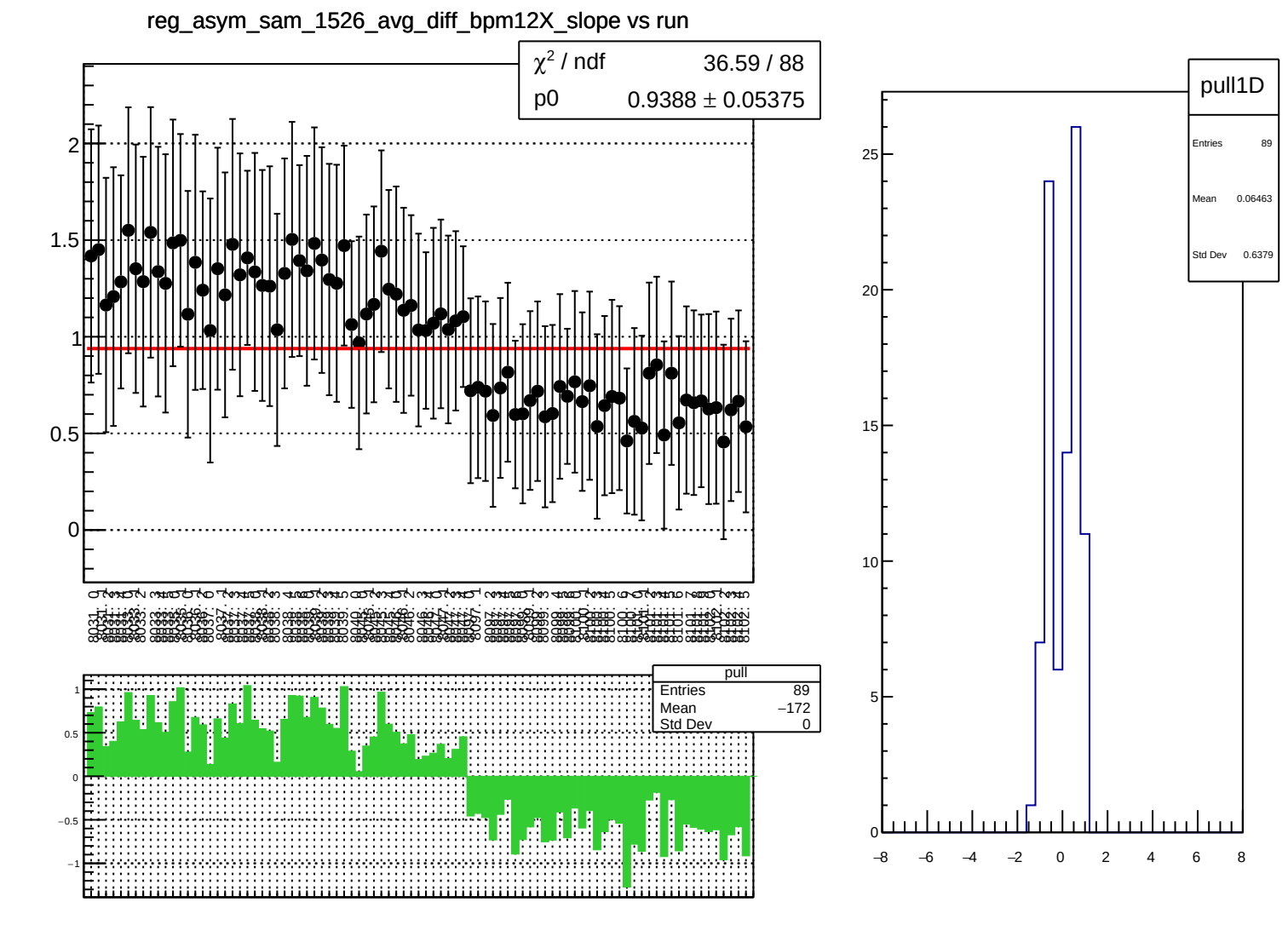

pull1D
Entries 89
Mean −0.01939
Std Dev 0.286

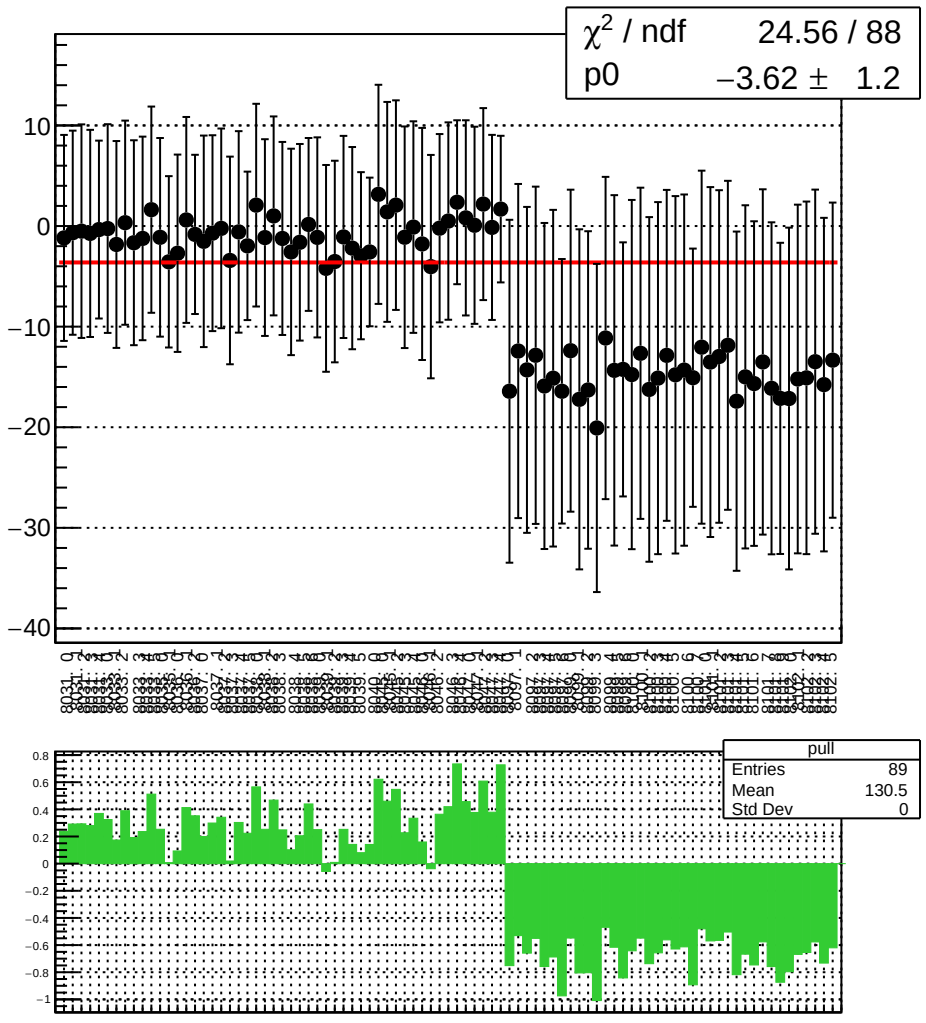

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 19.77 / 88
p0 −27.14 ± 0.6233
pull
Entries 89
Mean 169.5
Std Dev 0

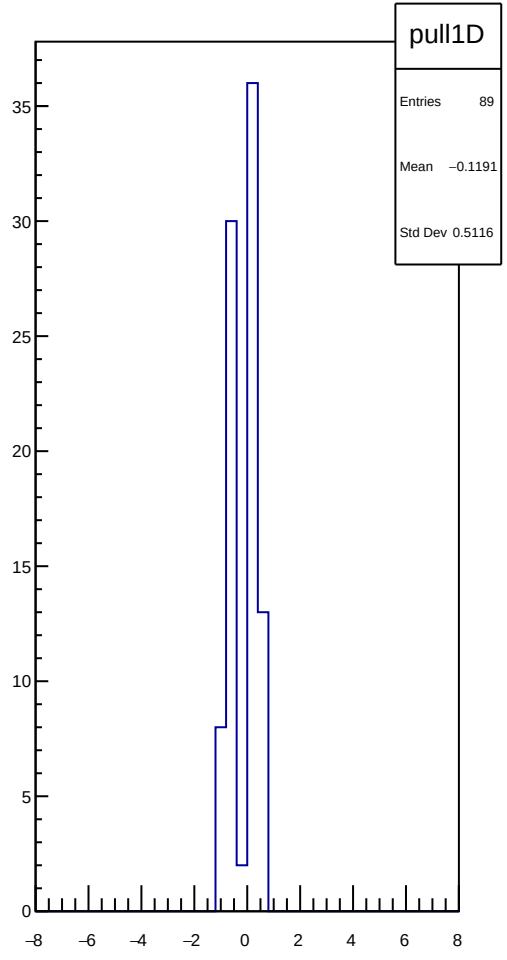

pull1D
Entries 89
Mean −0.0634
Std Dev 0.467

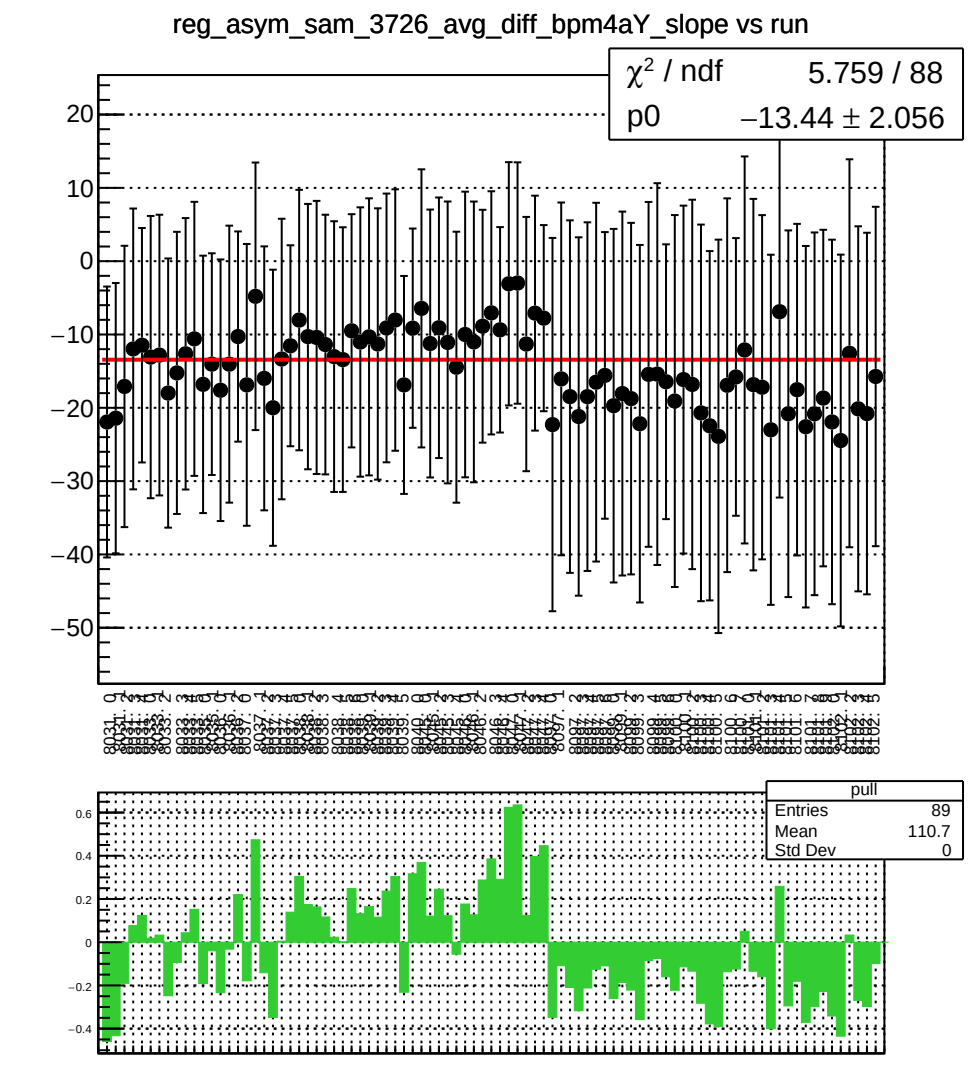

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.99 / 88
p0 16.88 ± 1.039
pull
Entries 89
Mean 252.1
Std Dev 0

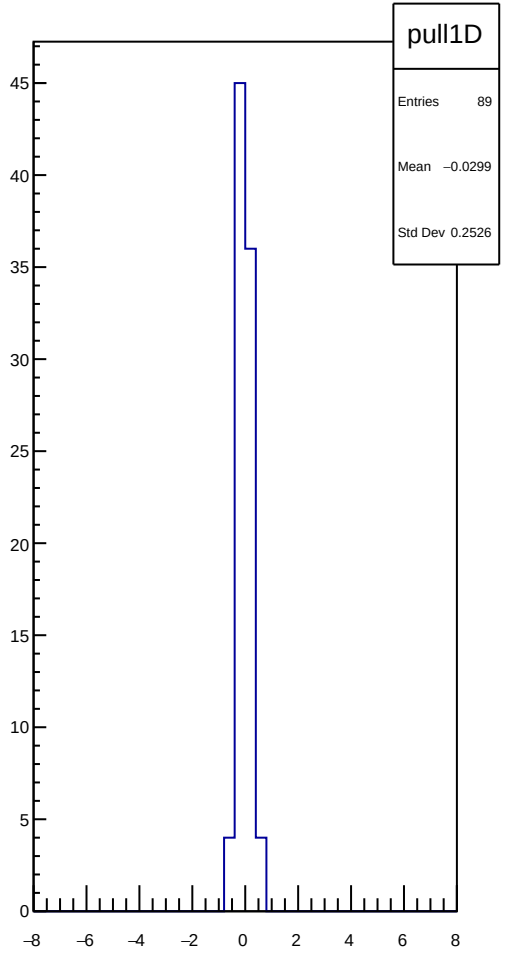

pull1D
Entries 89
Mean −0.02806
Std Dev 0.3503

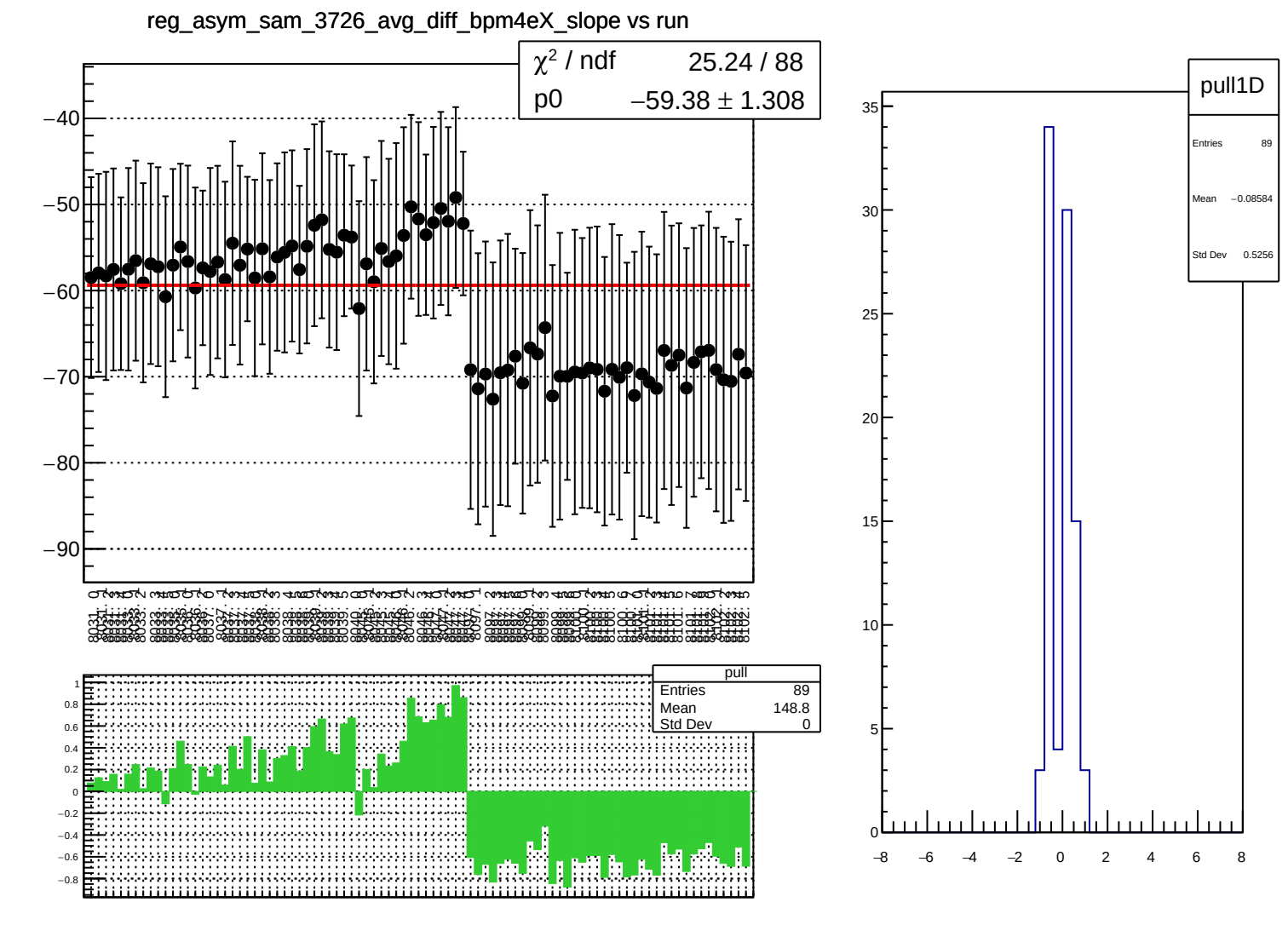

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 36.59 / 88
p0 0.9388 ± 0.05375
pull
Entries 89
Mean −172
Std Dev 0
pull1D
Entries 89
Mean 0.06463
Std Dev 0.6379

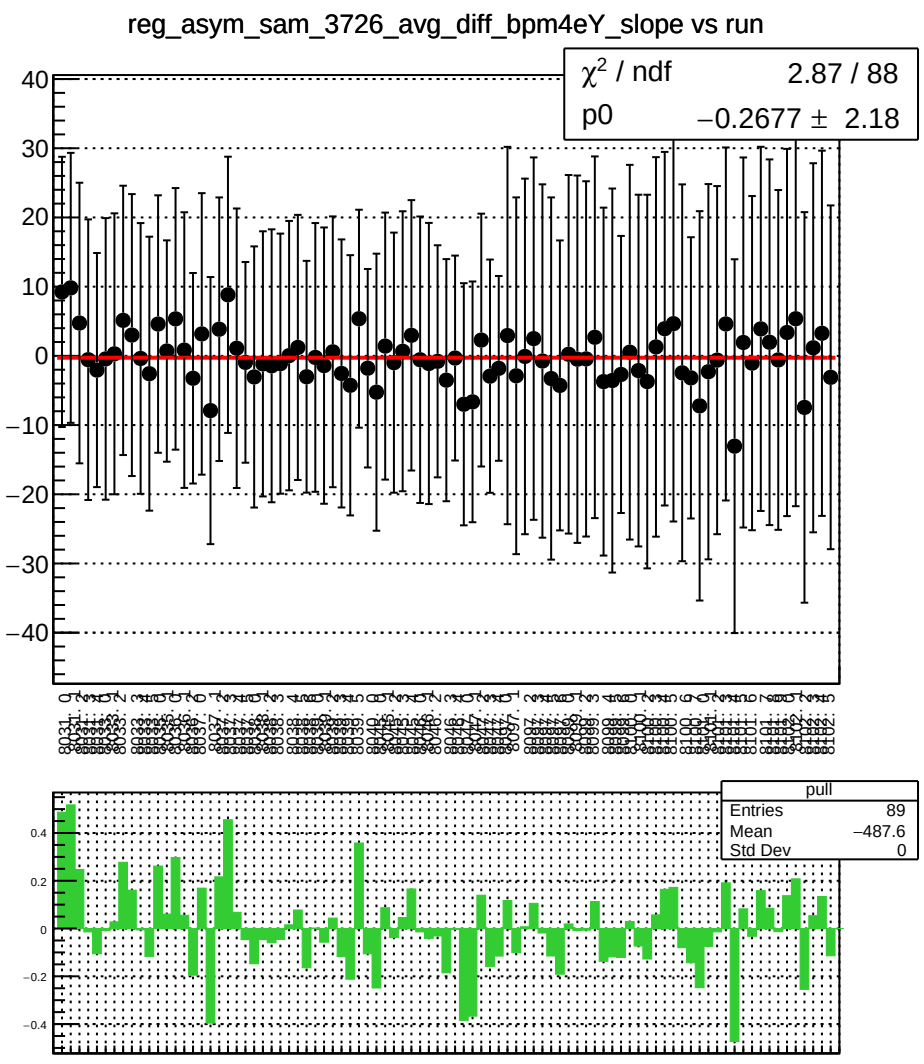

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 24.56 / 88
p0 −3.62 ± 1.2
pull
Entries 89
Mean 130.5
Std Dev 0

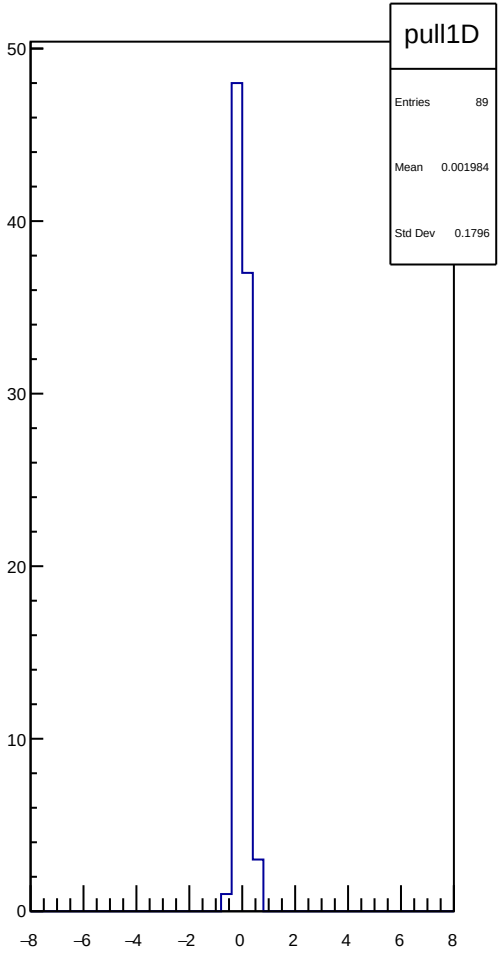

pull1D
Entries 89
Mean −0.1191
Std Dev 0.5116

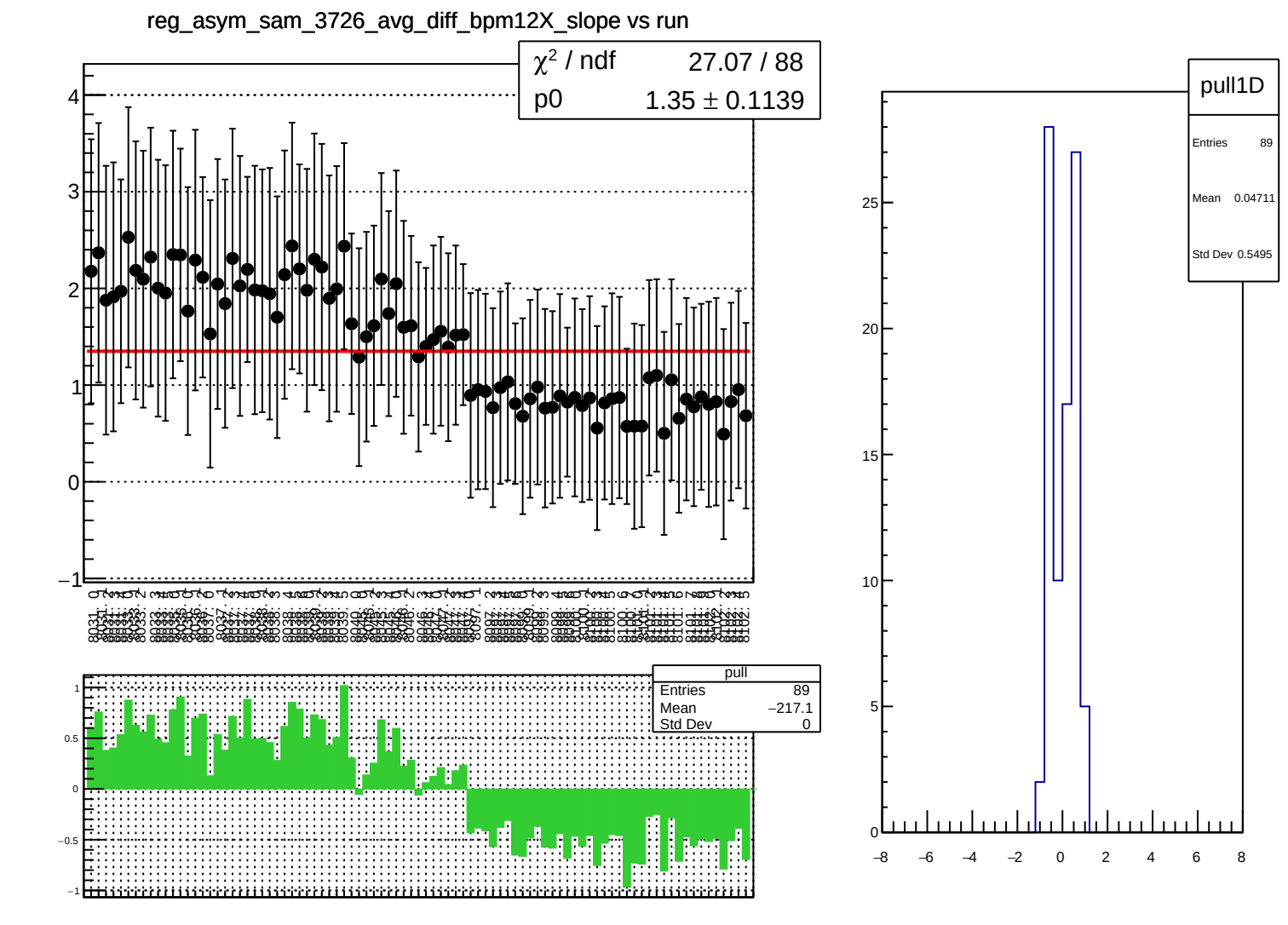

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.759 / 88
p0 −13.44 ± 2.056
pull
Entries 89
Mean 110.7
Std Dev 0

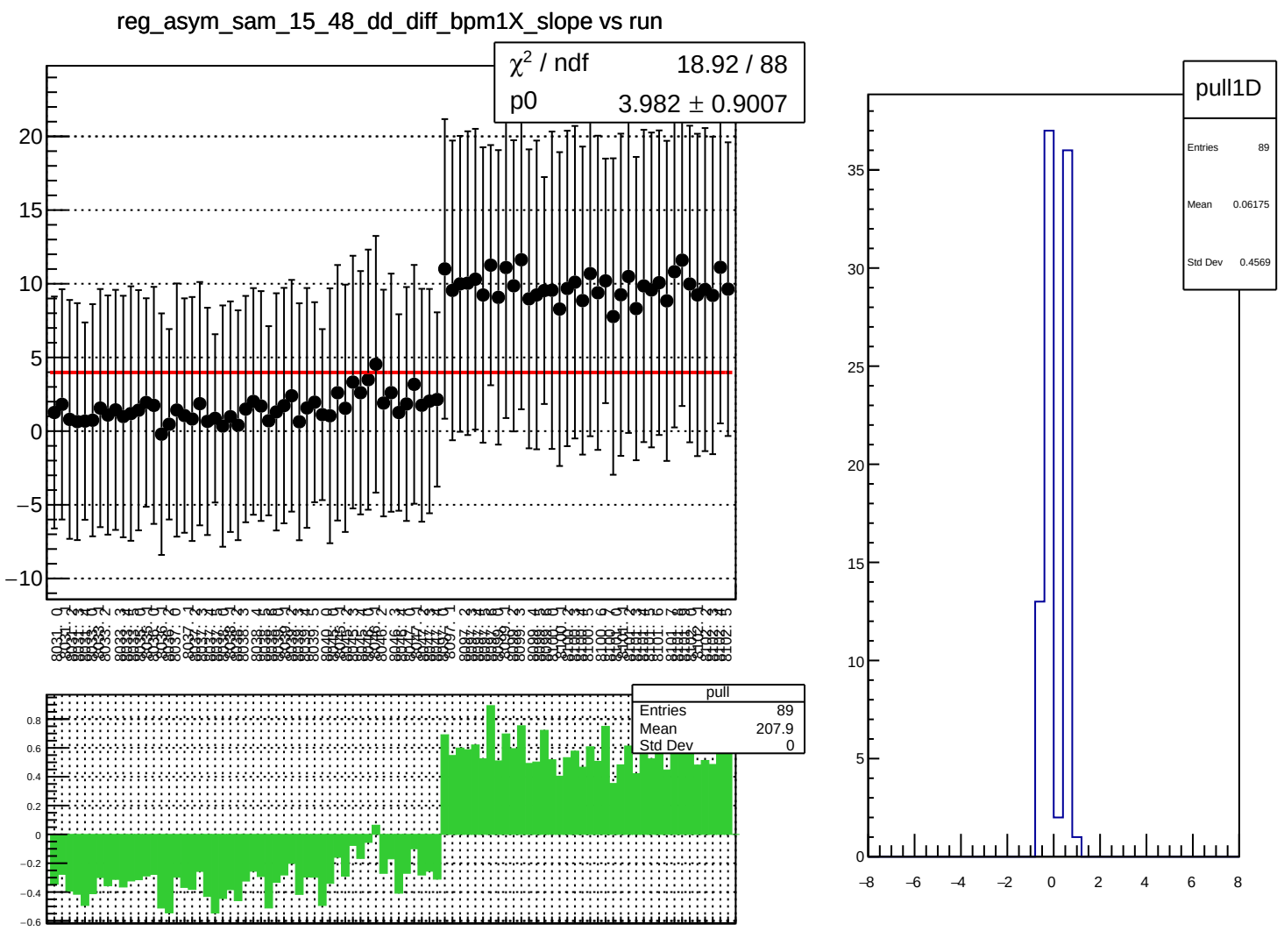

pull1D
Entries 89
Mean −0.0299
Std Dev 0.2526

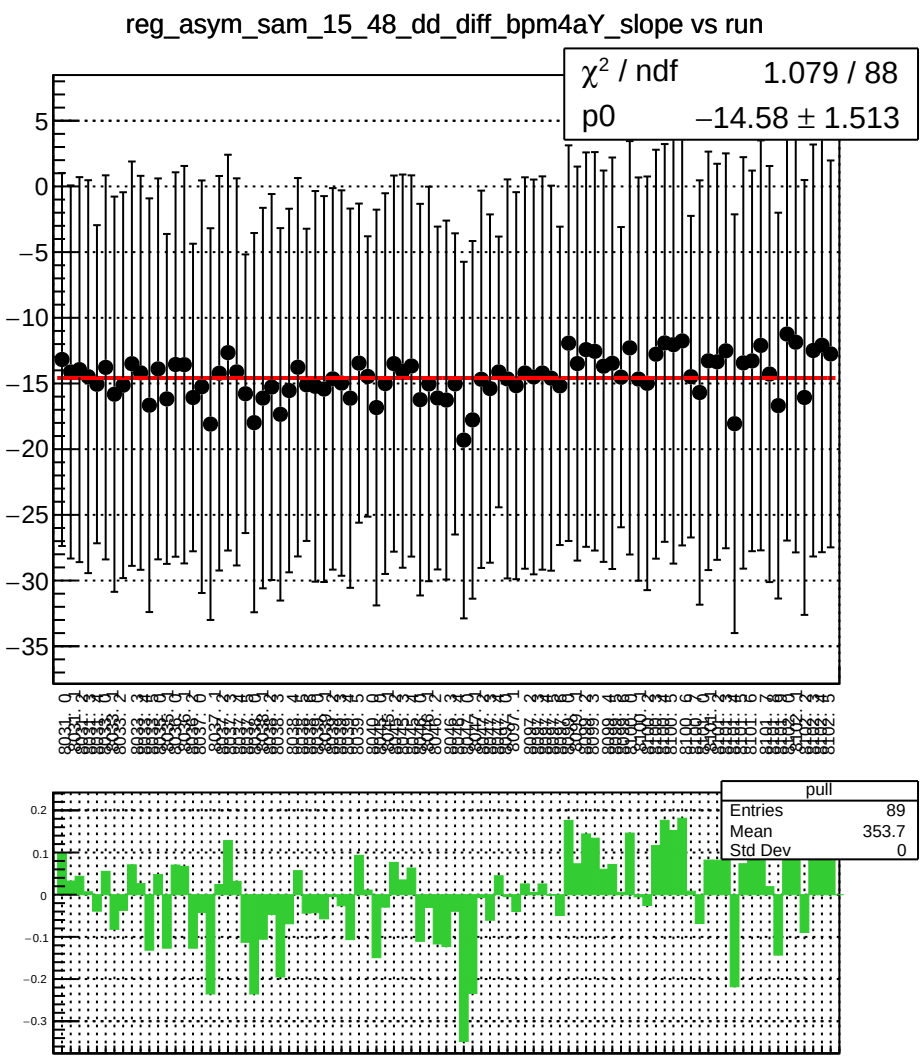

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 25.24 / 88
p0 −59.38 ± 1.308
pull
Entries 89
Mean 148.8
Std Dev 0
pull1D
Entries 89
Mean −0.08584
Std Dev 0.5256

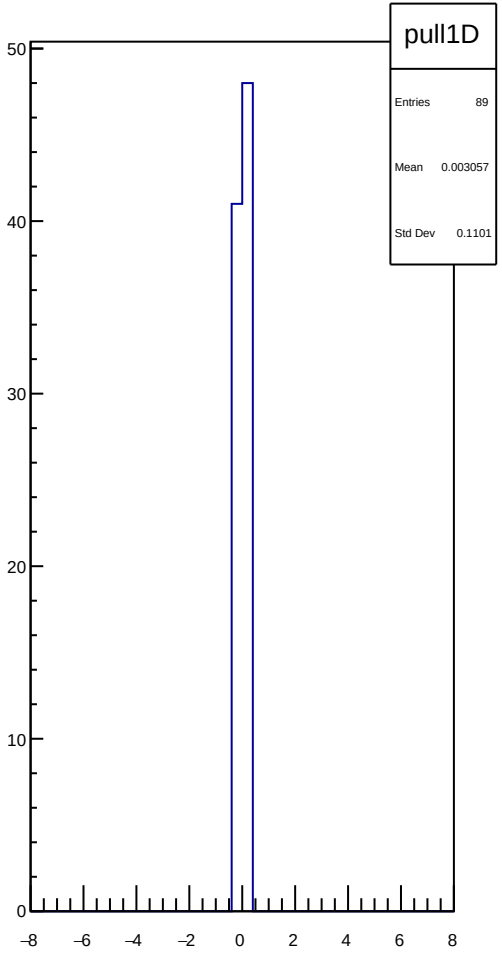

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.87 / 88
p0 −0.2677 ± 2.18
pull
Entries 89
Mean −487.6
Std Dev 0

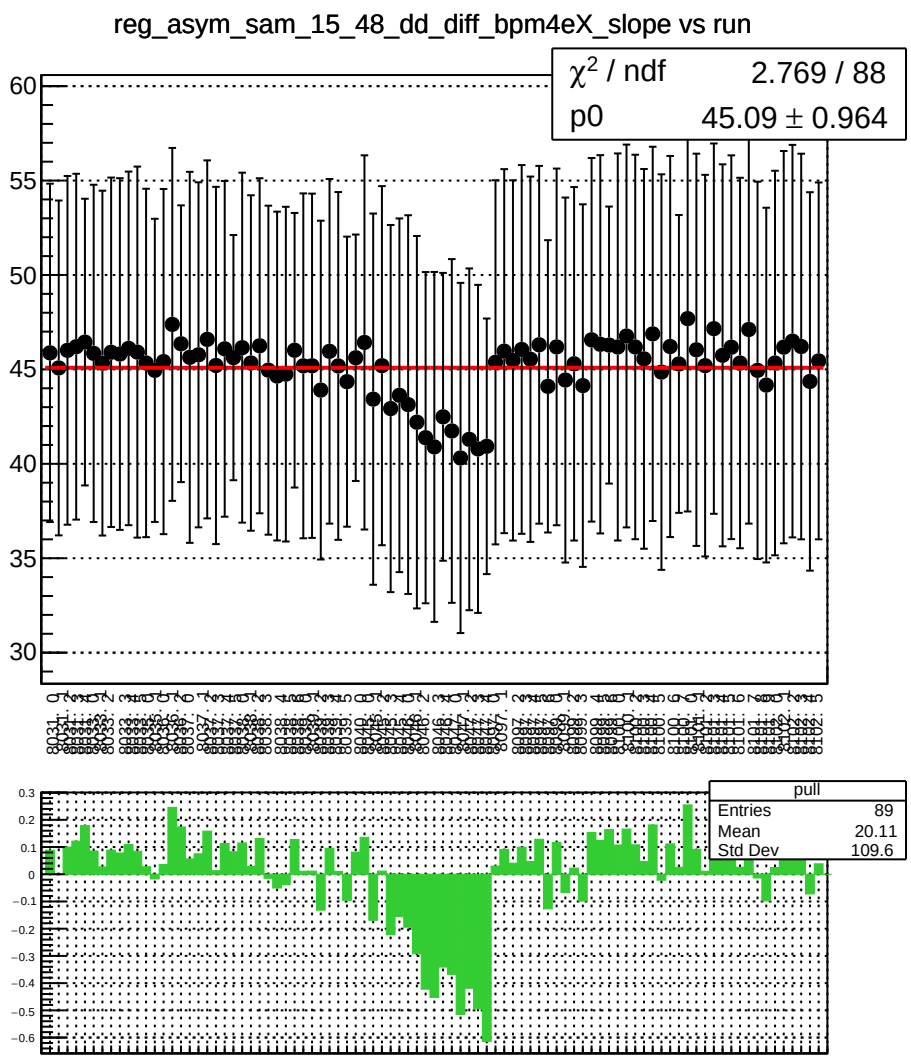

pull1D
Entries 89
Mean 0.001984
Std Dev 0.1796

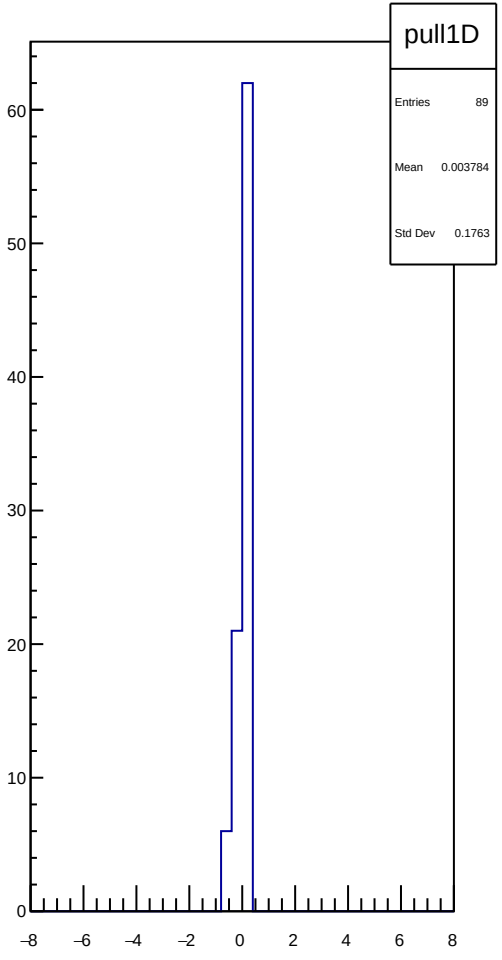

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 27.07 / 88
p0 1.35 ± 0.1139
pull
Entries 89
Mean −217.1
Std Dev 0
pull1D
Entries 89
Mean 0.04711
Std Dev 0.5495

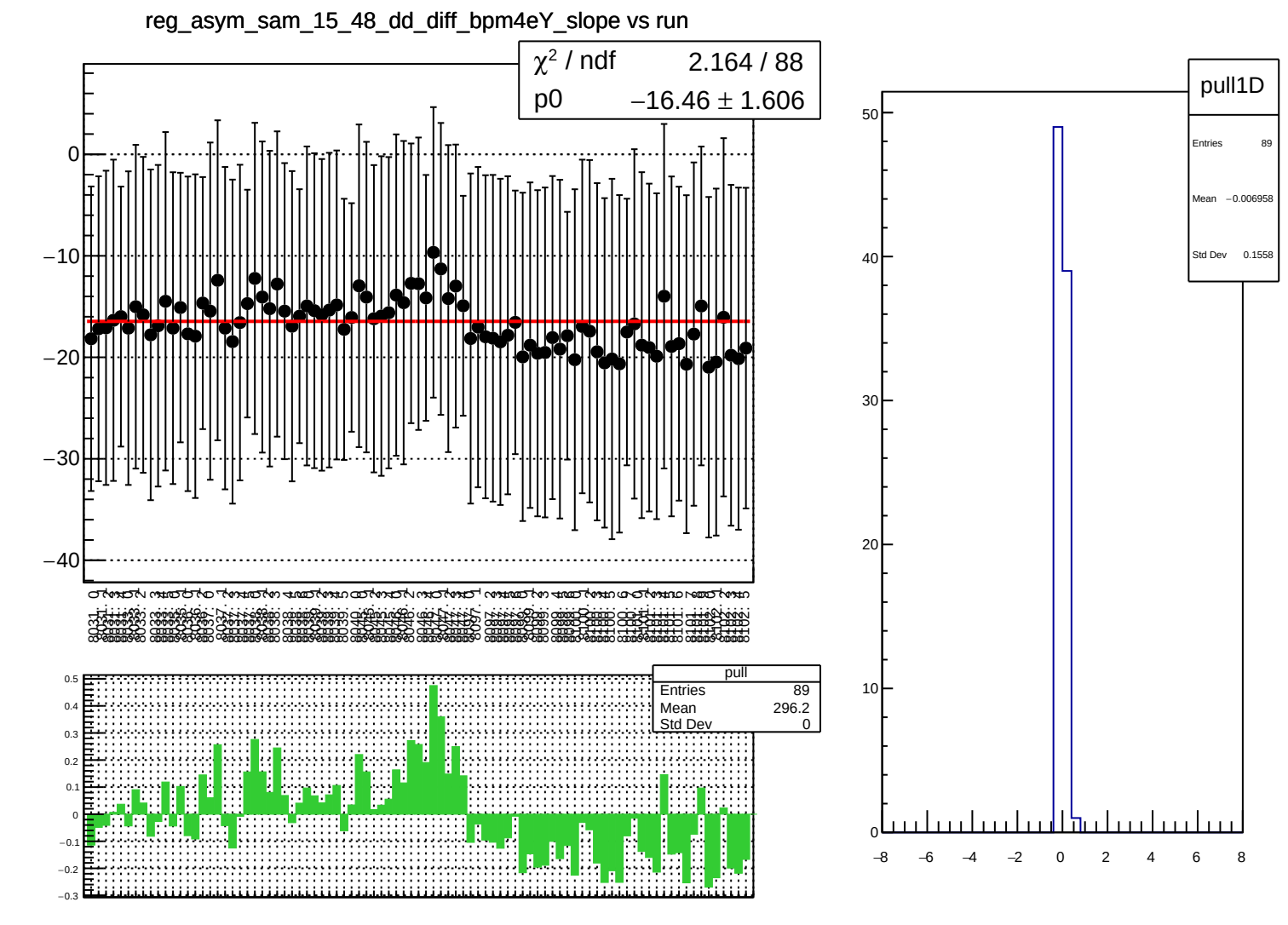

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 18.92 / 88
p0 3.982 ± 0.9007
pull
Entries 89
Mean 207.9
Std Dev 0
pull1D
Entries 89
Mean 0.06175
Std Dev 0.4569

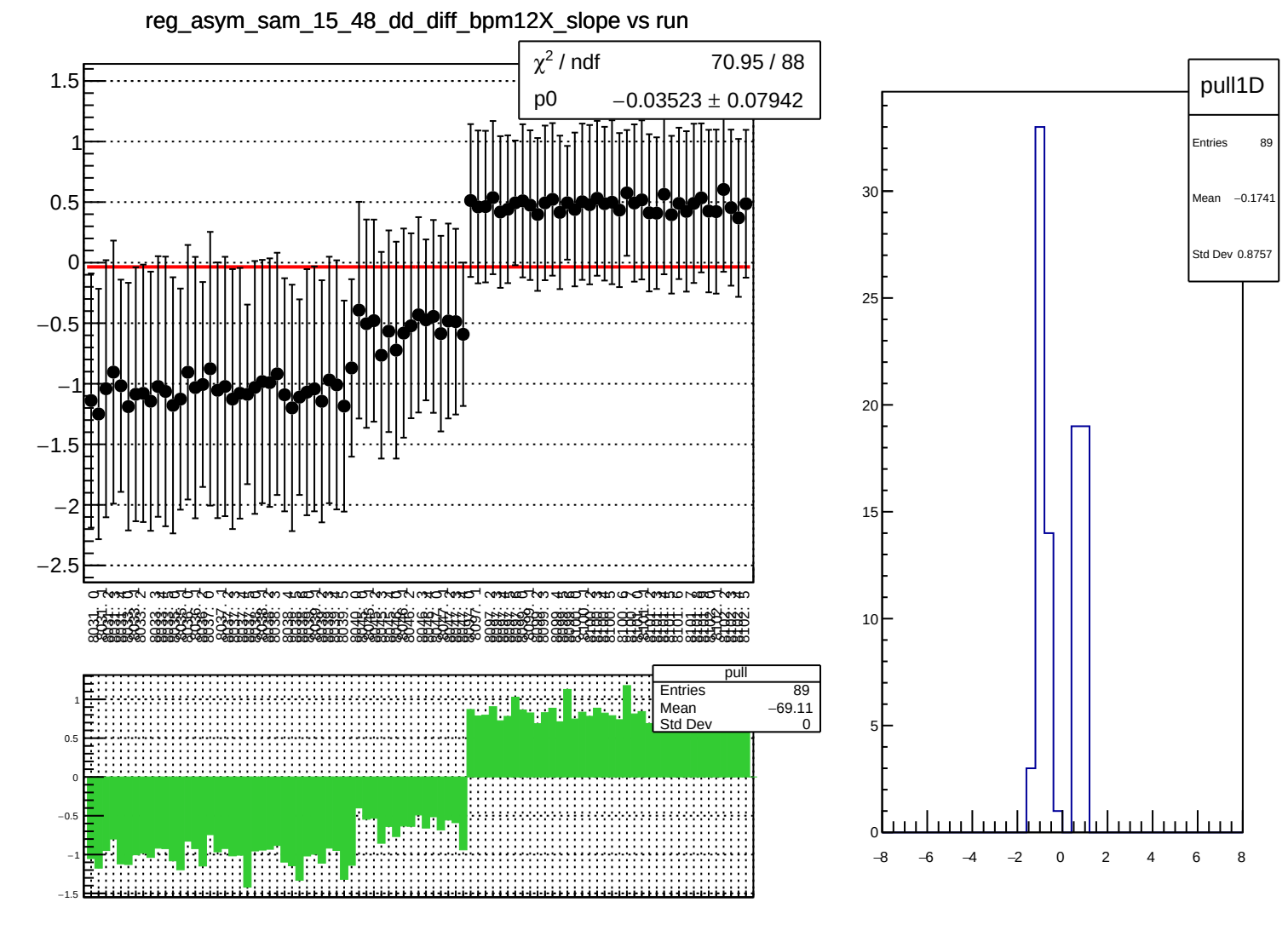

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.079 / 88
p0 −14.58 ± 1.513
pull
Entries 89
Mean 353.7
Std Dev 0

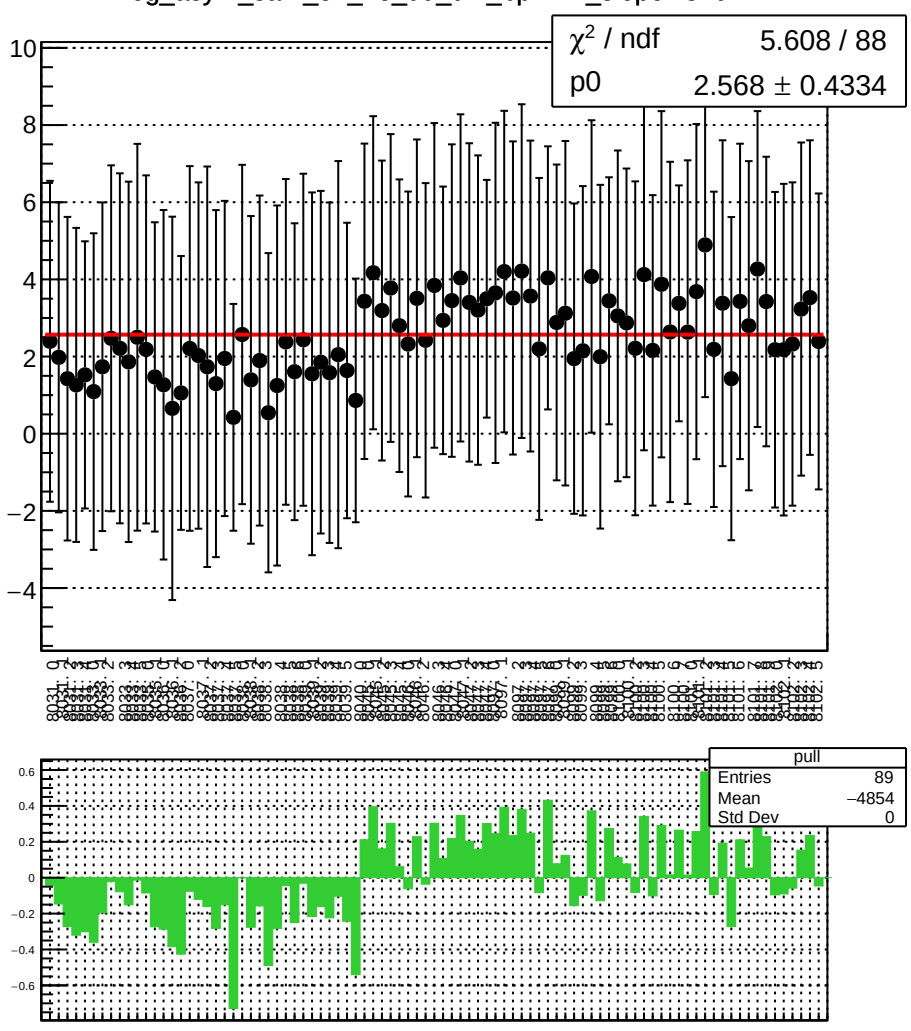

pull1D
Entries 89
Mean 0.003057
Std Dev 0.1101

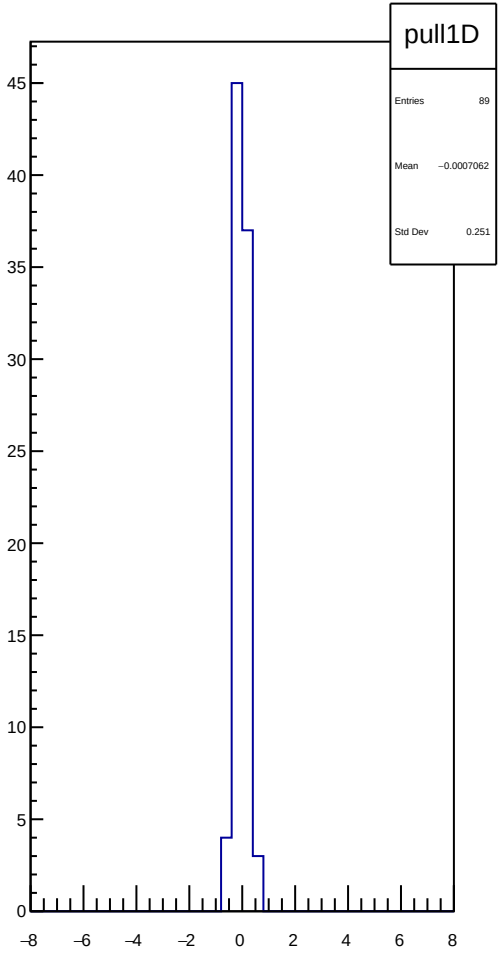

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.769 / 88
p0 45.09 ± 0.964
pull
Entries 89
Mean 20.11
Std Dev 109.6

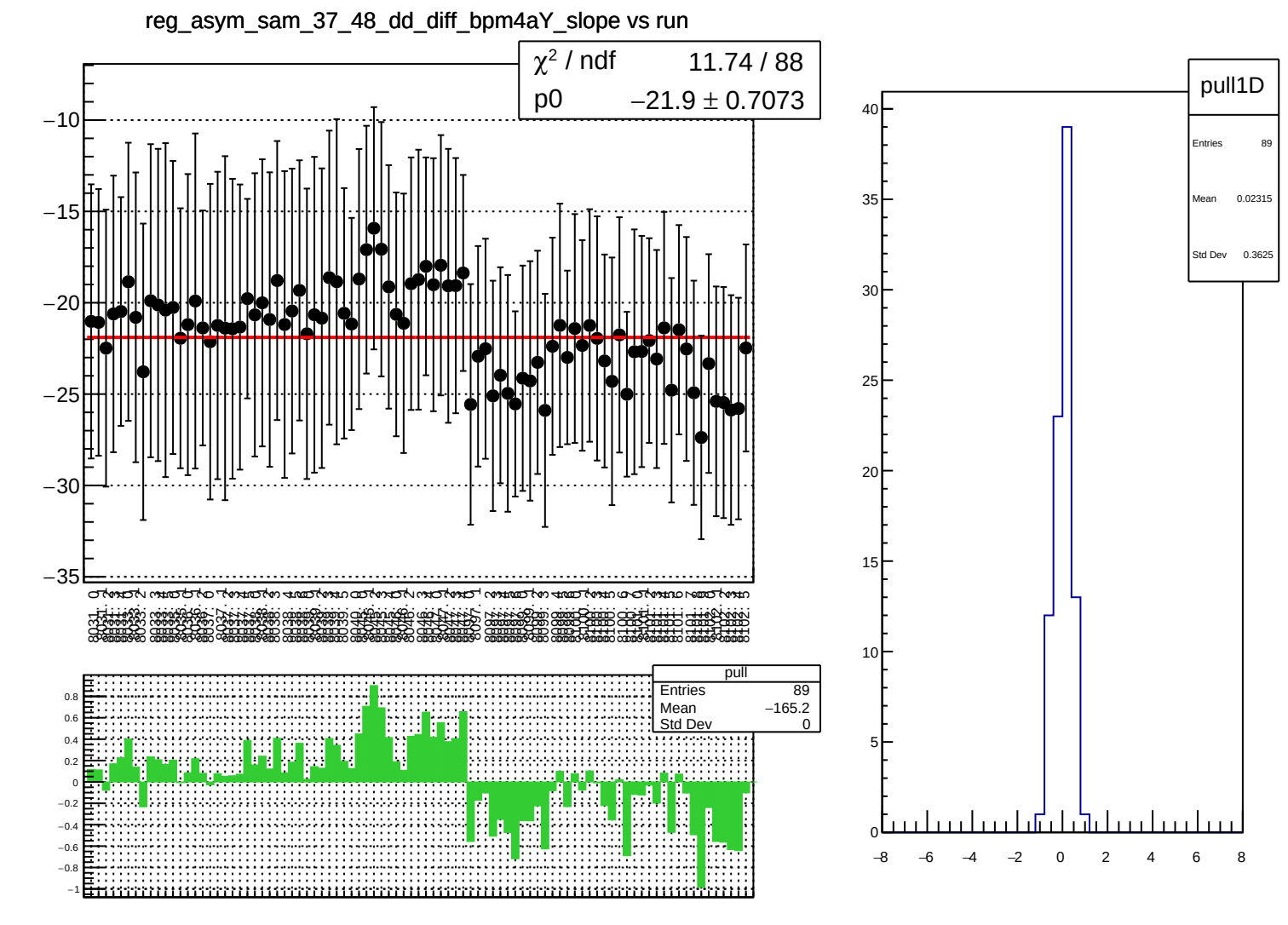

pull1D
Entries 89
Mean 0.003784
Std Dev 0.1763

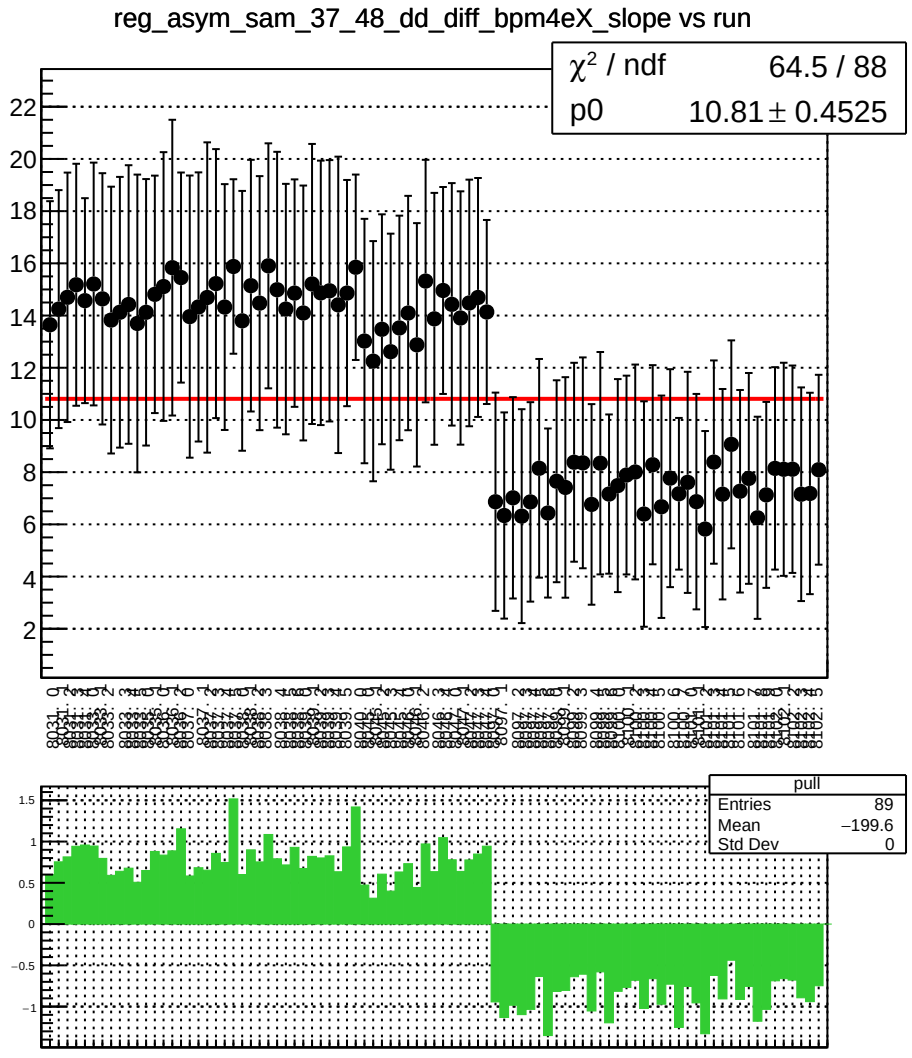

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.164 / 88
p0 −16.46 ± 1.606
pull
Entries 89
Mean 296.2
Std Dev 0
pull1D
Entries 89
Mean −0.006958
Std Dev 0.1558

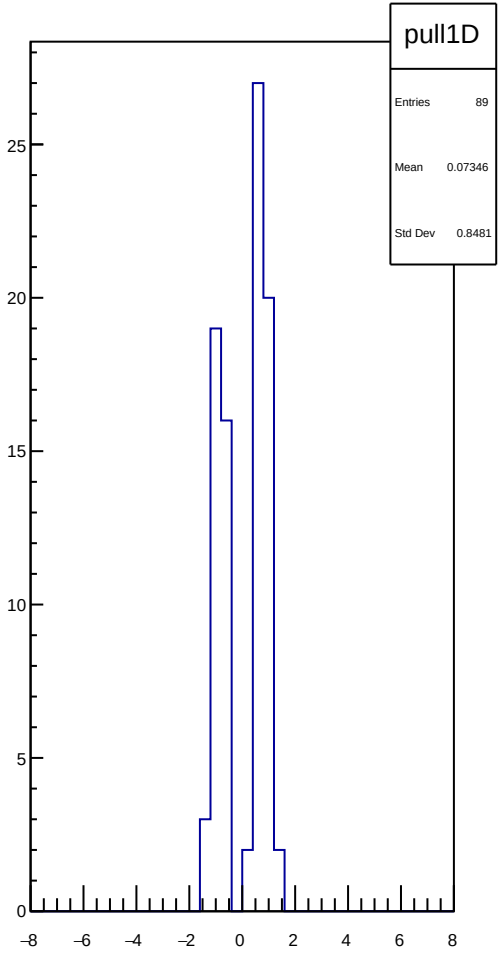

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 70.95 / 88
p0 −0.03523 ± 0.07942
pull
Entries 89
Mean −69.11
Std Dev 0
pull1D
Entries 89
Mean −0.1741
Std Dev 0.8757

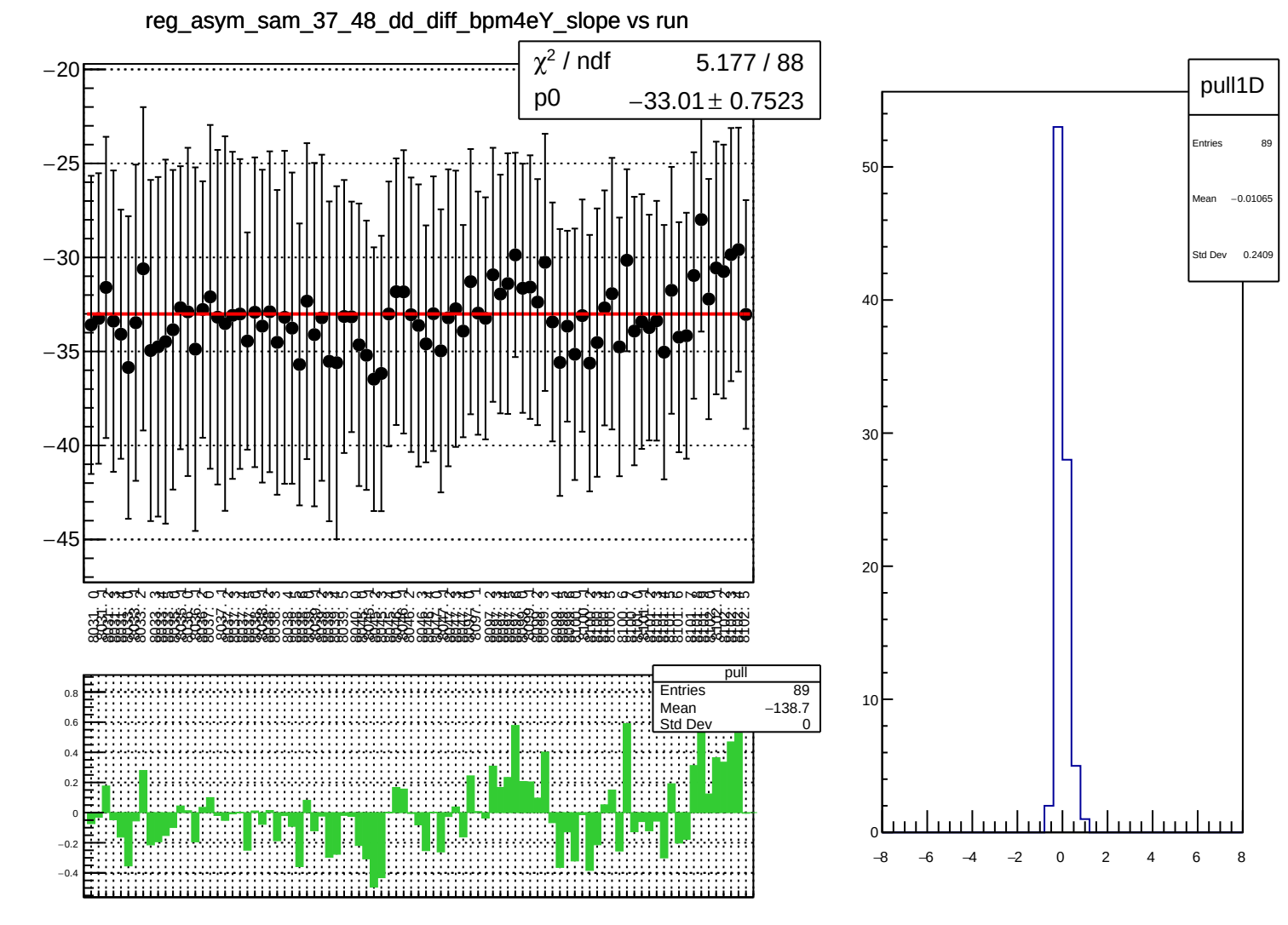

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 5.608 / 88
p0 2.568 ± 0.4334
pull
Entries 89
Mean −4854
Std Dev 0

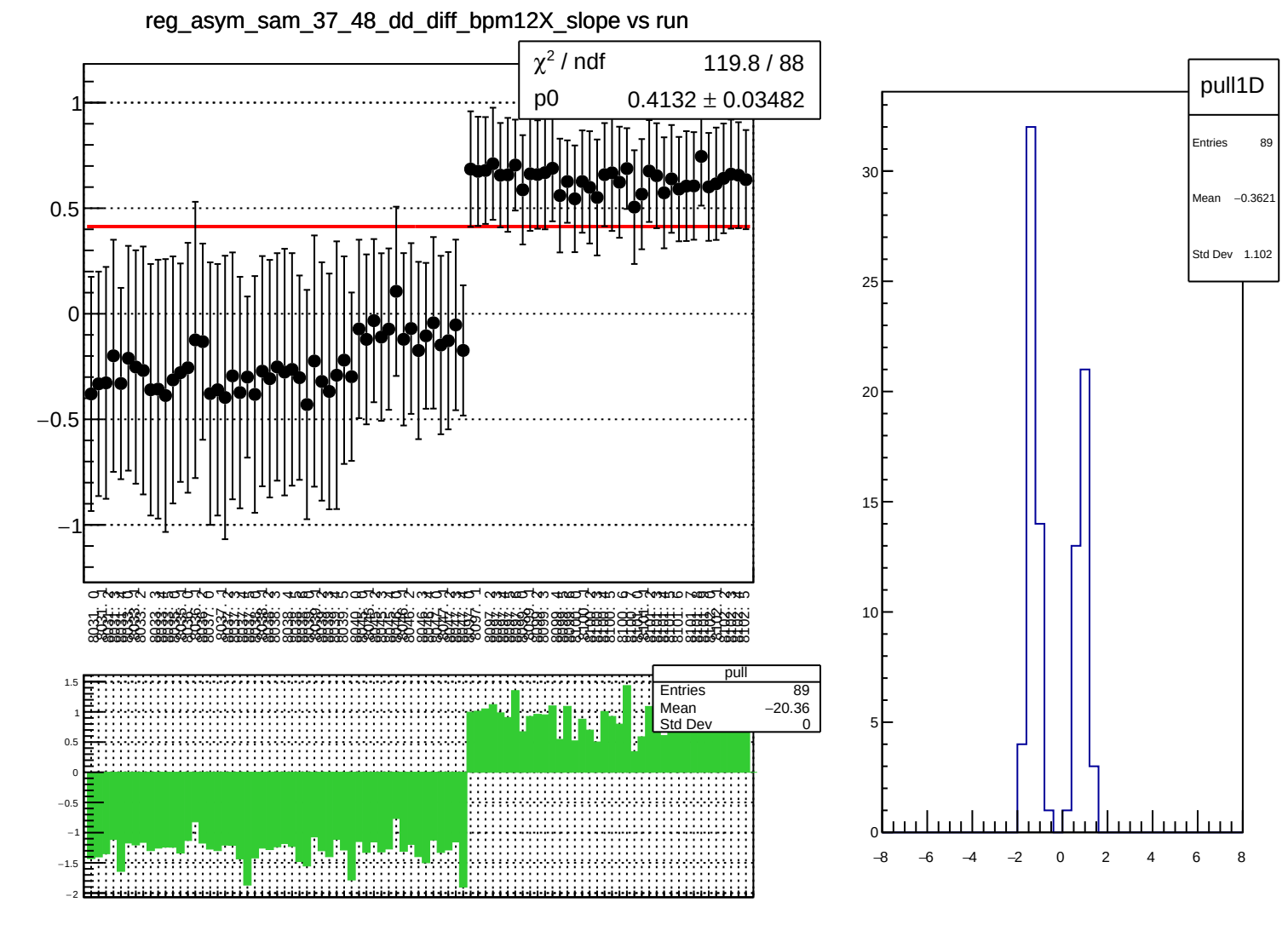

pull1D
Entries 89
Mean −0.0007062
Std Dev 0.251

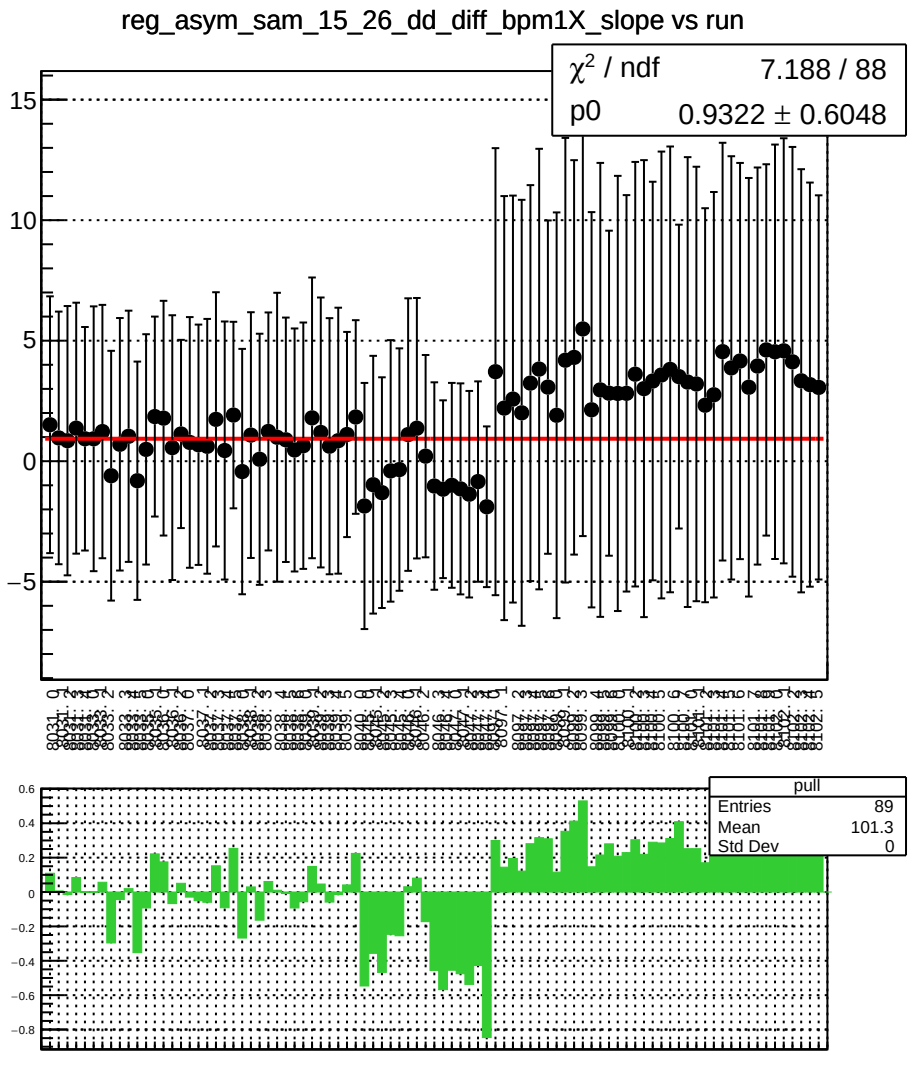

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.74 / 88
p0 −21.9 ± 0.7073
pull
Entries 89
Mean −165.2
Std Dev 0
pull1D
Entries 89
Mean 0.02315
Std Dev 0.3625

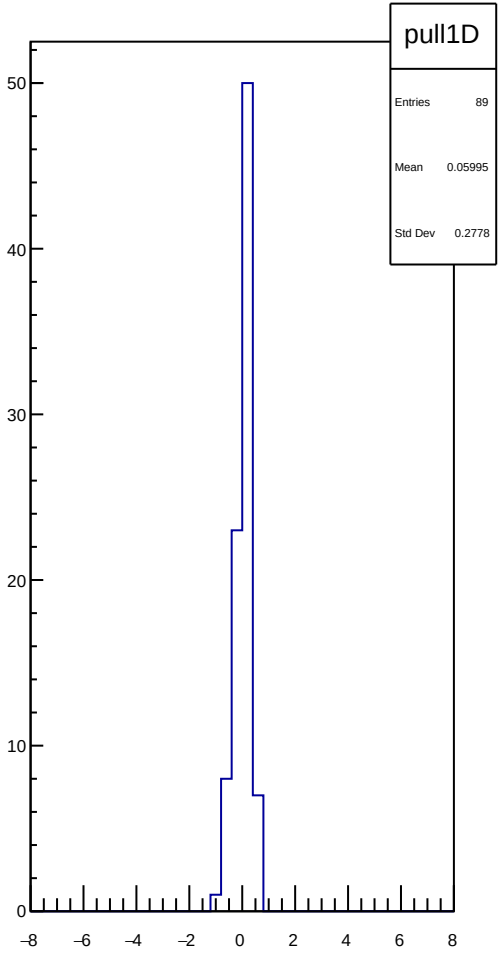

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 64.5 / 88
p0 10.81 ± 0.4525
pull
Entries 89
Mean −199.6
Std Dev 0

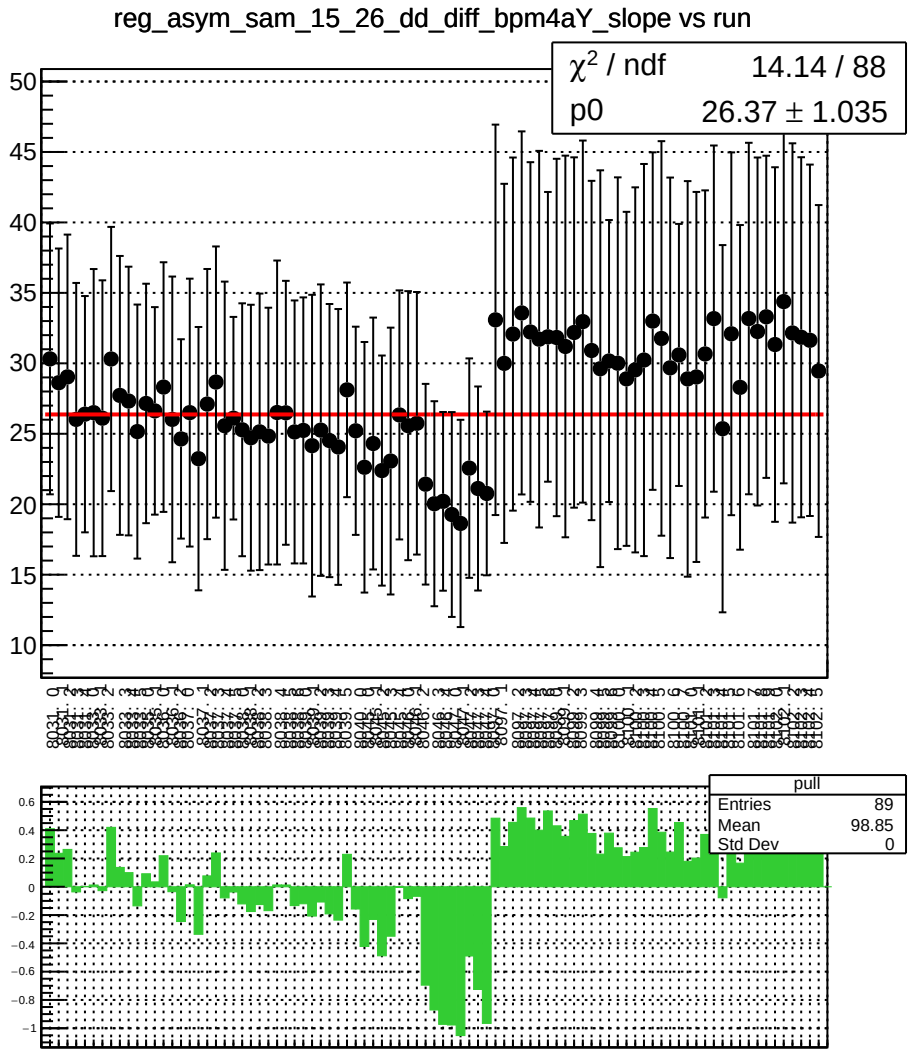

pull1D
Entries 89
Mean 0.07346
Std Dev 0.8481

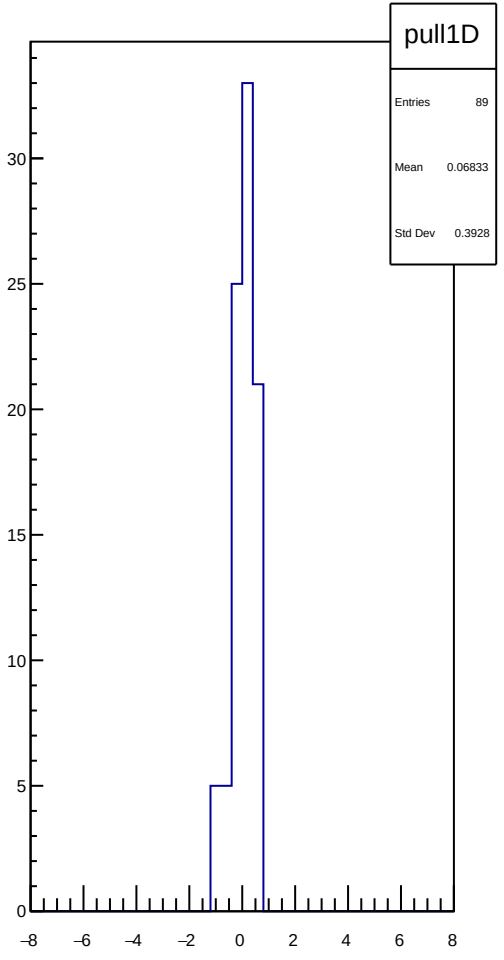

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.177 / 88
p0 −33.01 ± 0.7523
pull
Entries 89
Mean −138.7
Std Dev 0
pull1D
Entries 89
Mean −0.01065
Std Dev 0.2409

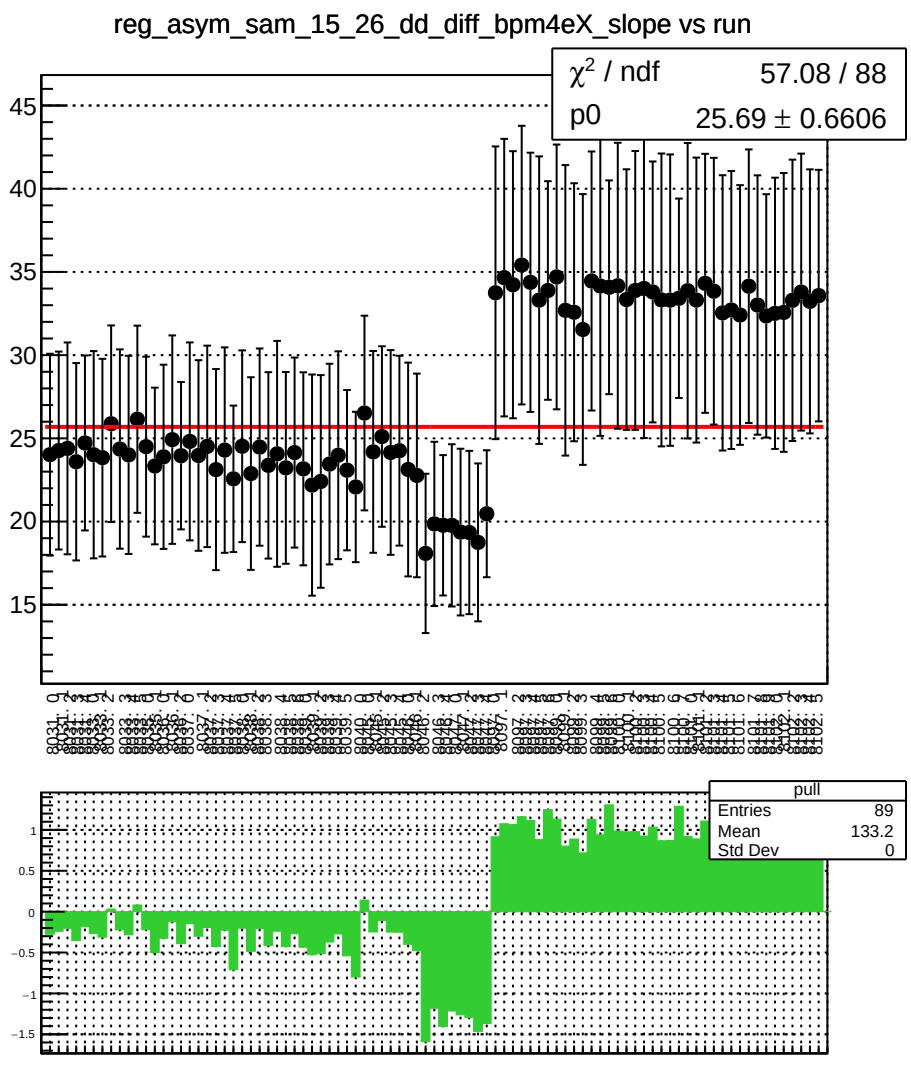

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 119.8 / 88
p0 0.4132 ± 0.03482
pull
Entries 89
Mean −20.36
Std Dev 0
pull1D
Entries 89
Mean −0.3621
Std Dev 1.102

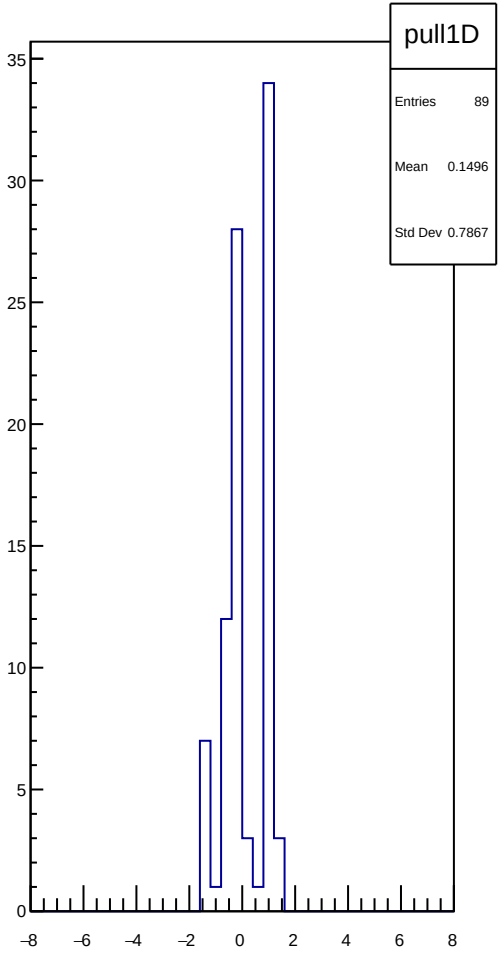

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 7.188 / 88
p0 0.9322 ± 0.6048
pull
Entries 89
Mean 101.3
Std Dev 0

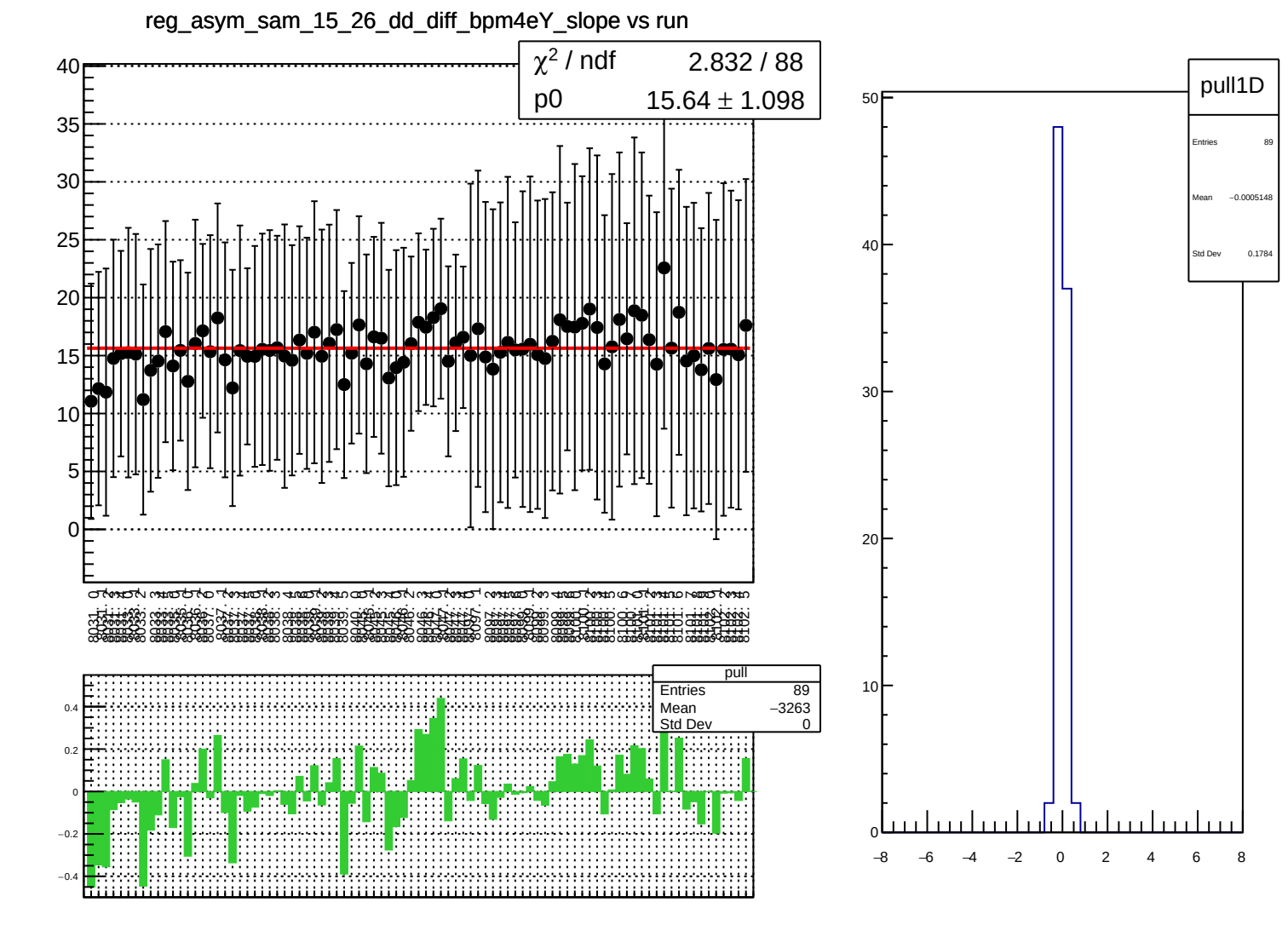

pull1D
Entries 89
Mean 0.05995
Std Dev 0.2778

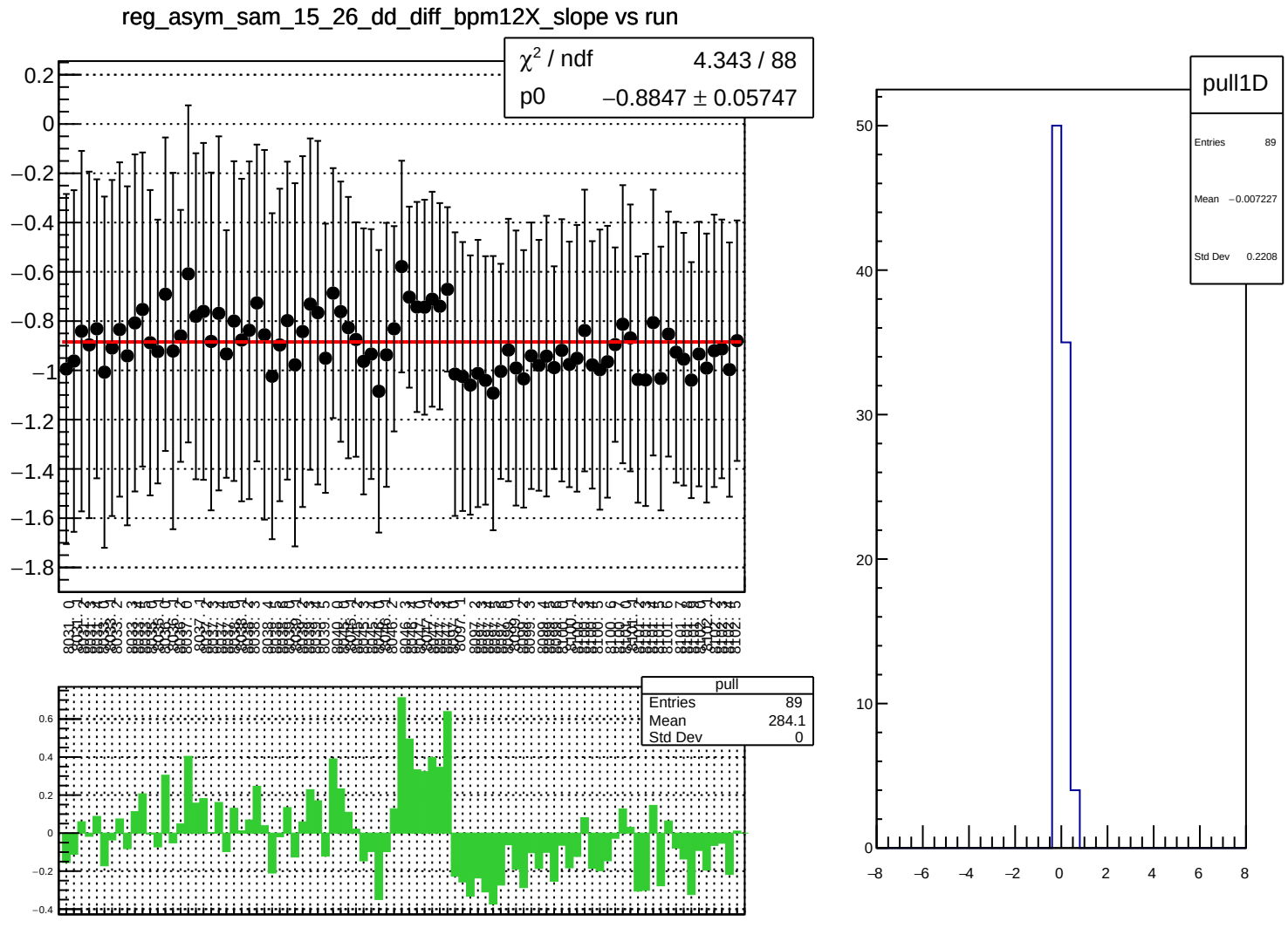

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.14 / 88
p0 26.37 ± 1.035
pull
Entries 89
Mean 98.85
Std Dev 0

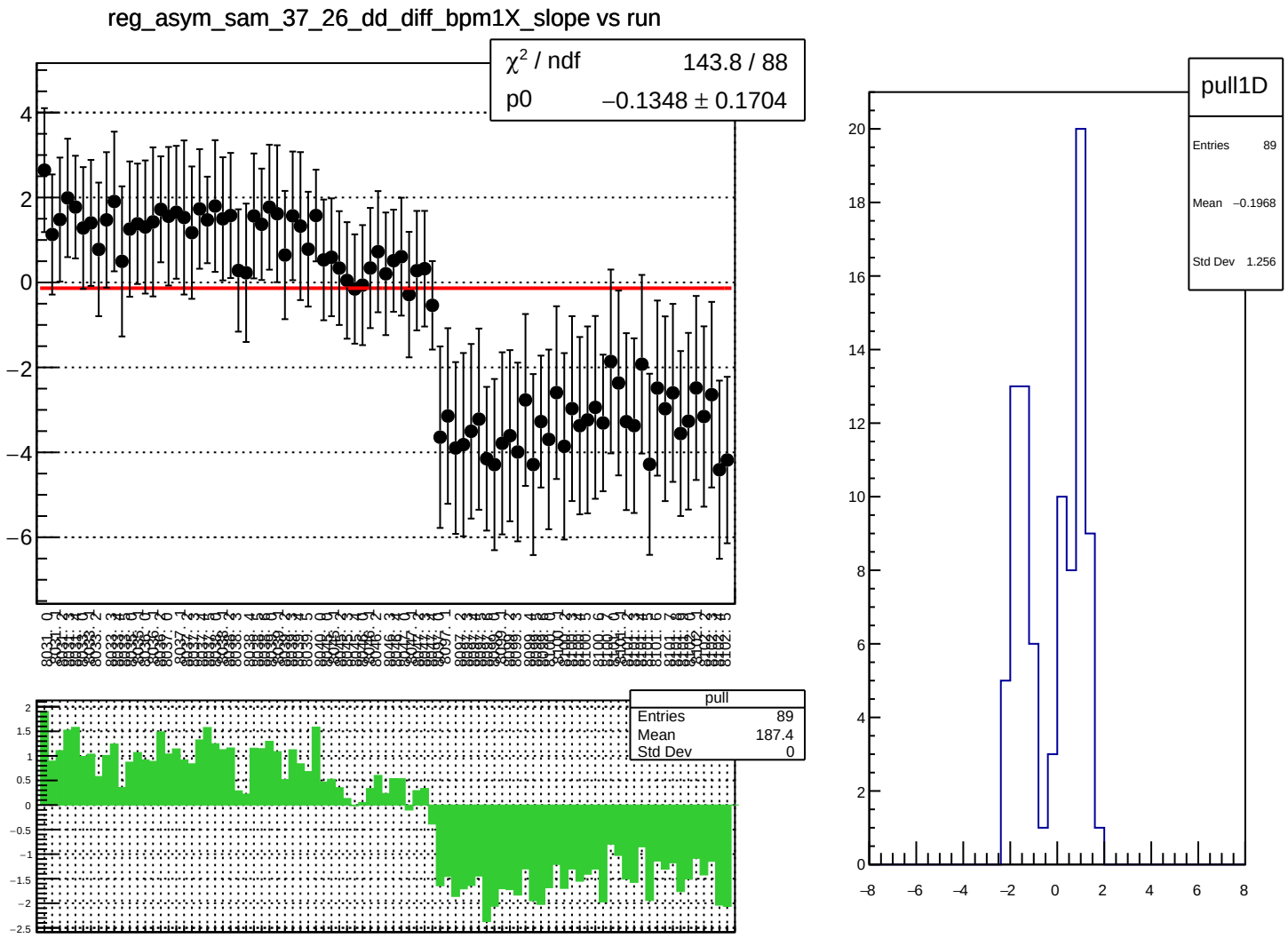

pull1D
Entries 89
Mean 0.06833
Std Dev 0.3928

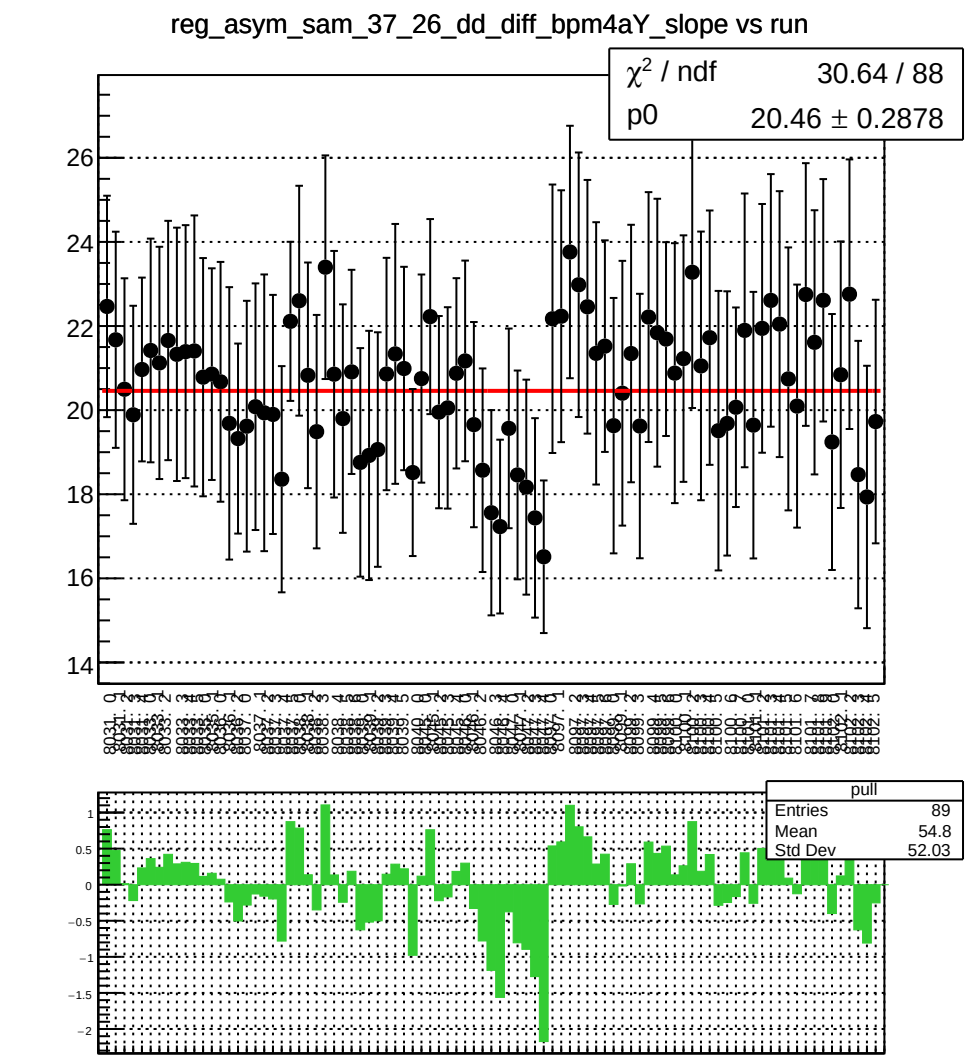

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 57.08 / 88
p0 25.69 ± 0.6606
pull
Entries 89
Mean 133.2
Std Dev 0

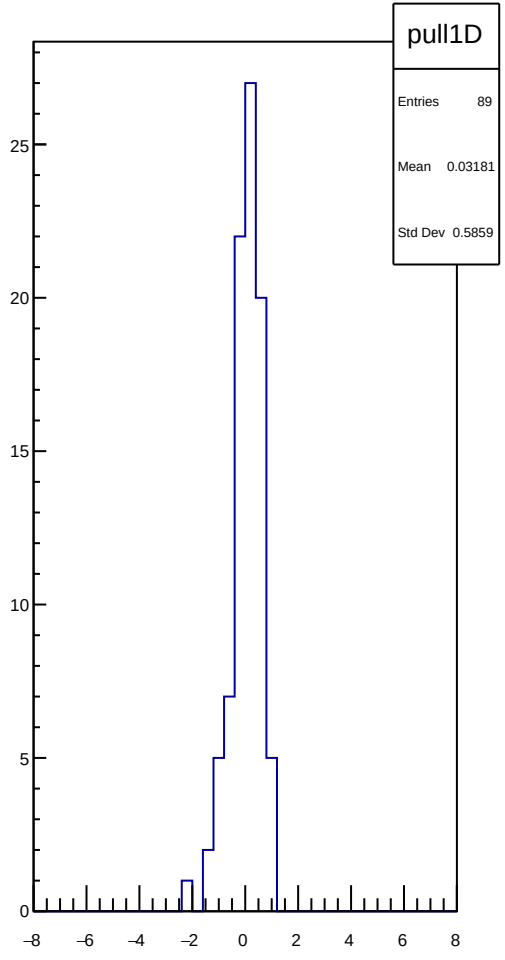

pull1D
Entries 89
Mean 0.1496
Std Dev 0.7867

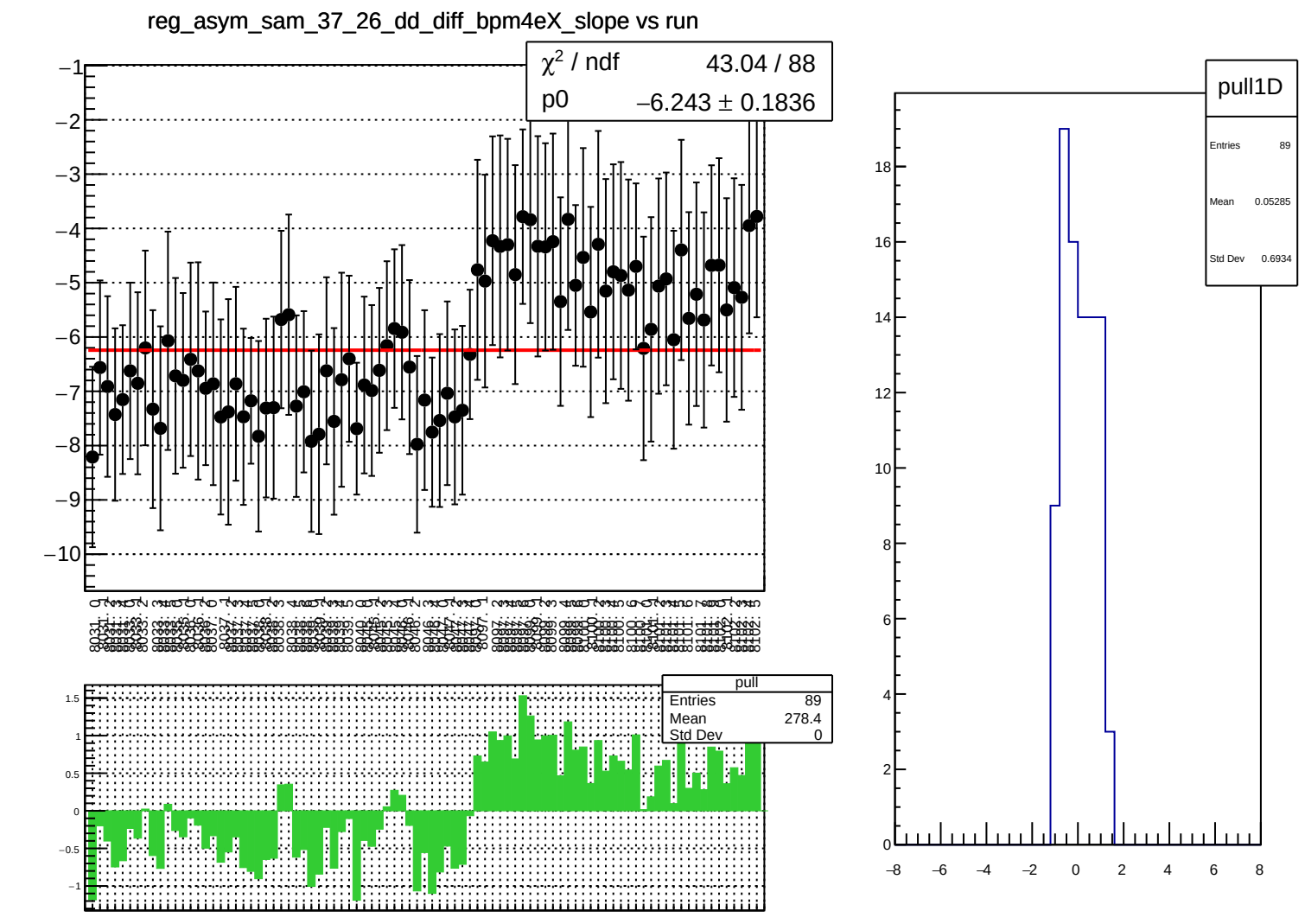

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.832 / 88
p0 15.64 ± 1.098
pull
Entries 89
Mean −3263
Std Dev 0
pull1D
Entries 89
Mean −0.0005148
Std Dev 0.1784

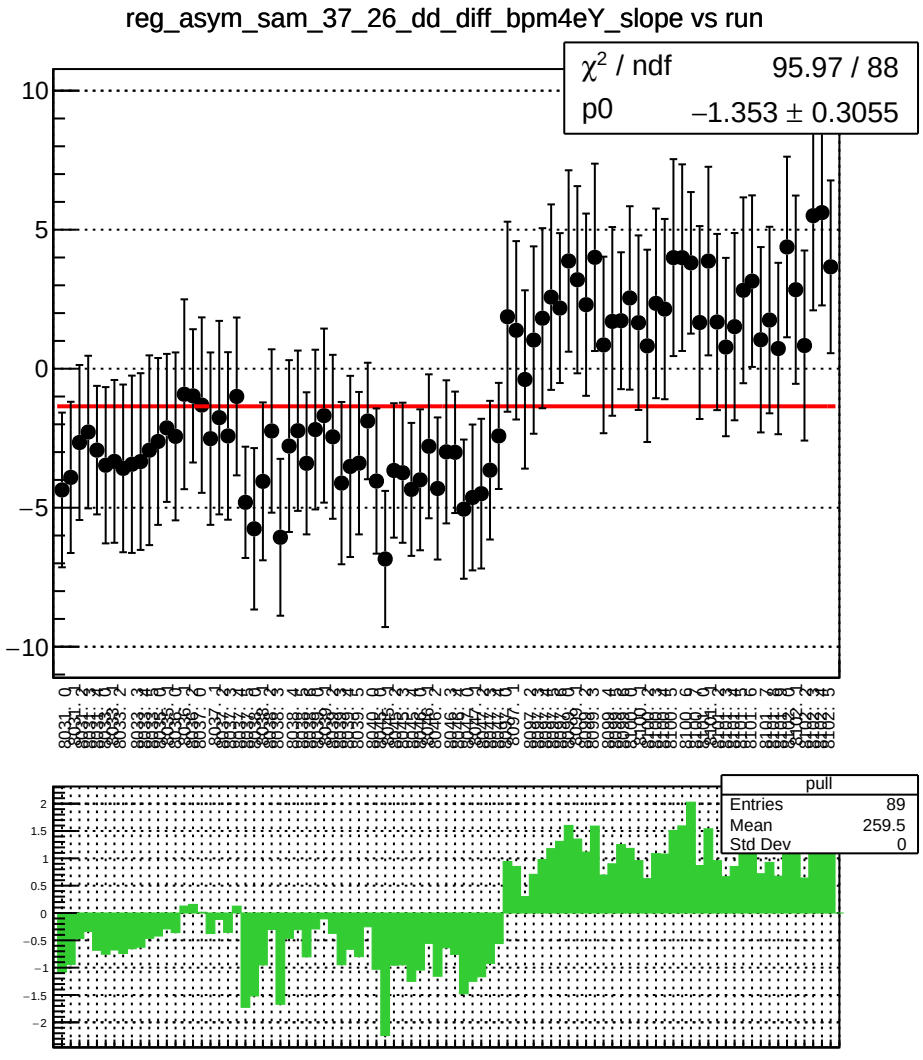

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 4.343 / 88
p0 −0.8847 ± 0.05747
pull
Entries 89
Mean 284.1
Std Dev 0
pull1D
Entries 89
Mean −0.007227
Std Dev 0.2208

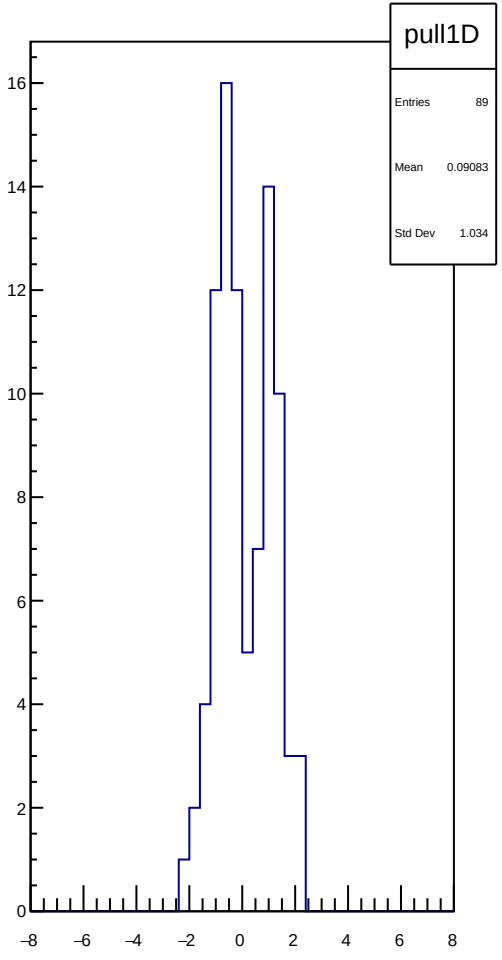

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 143.8 / 88
p0 −0.1348 ± 0.1704
pull
Entries 89
Mean 187.4
Std Dev 0
pull1D
Entries 89
Mean −0.1968
Std Dev 1.256

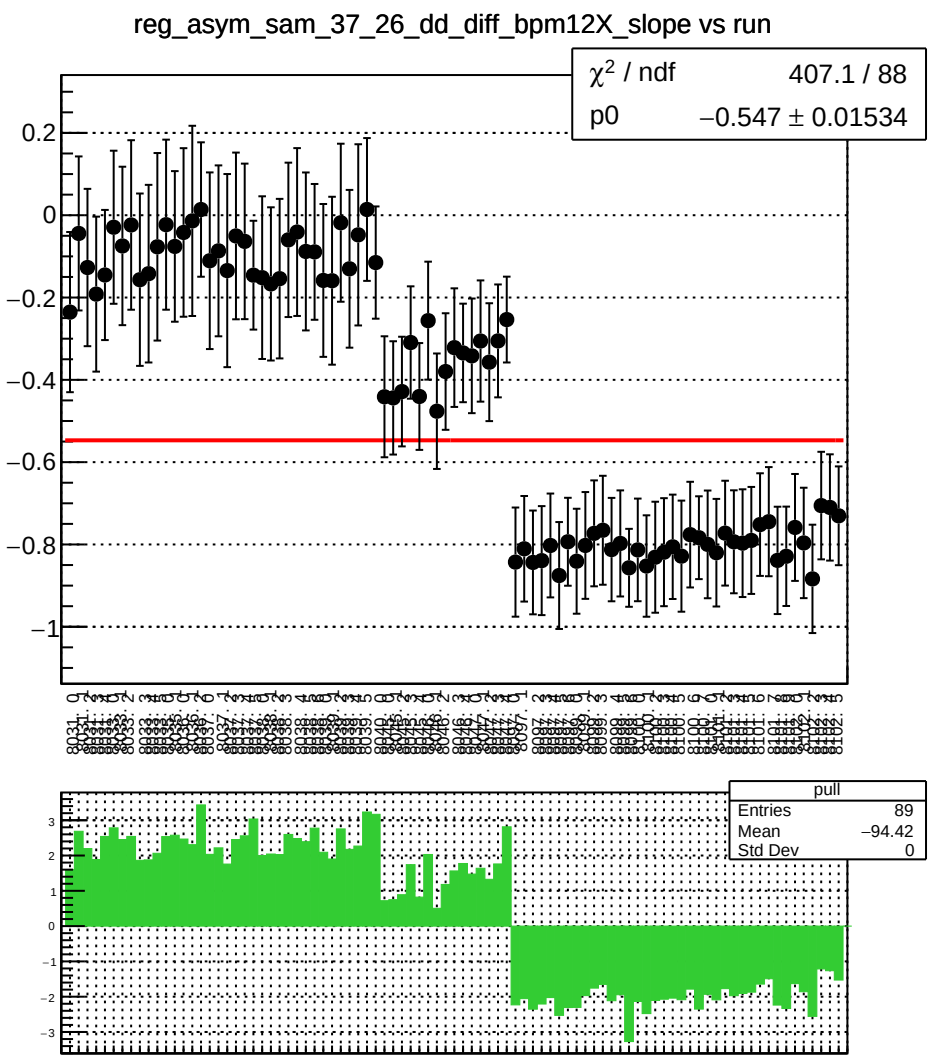

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 30.64 / 88
p0 20.46 ± 0.2878
pull
Entries 89
Mean 54.8
Std Dev 52.03

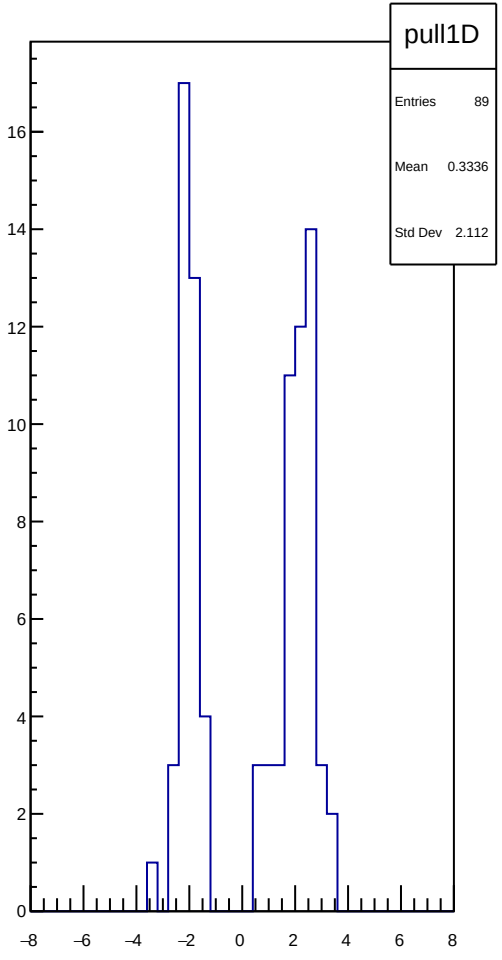

pull1D
Entries 89
Mean 0.03181
Std Dev 0.5859

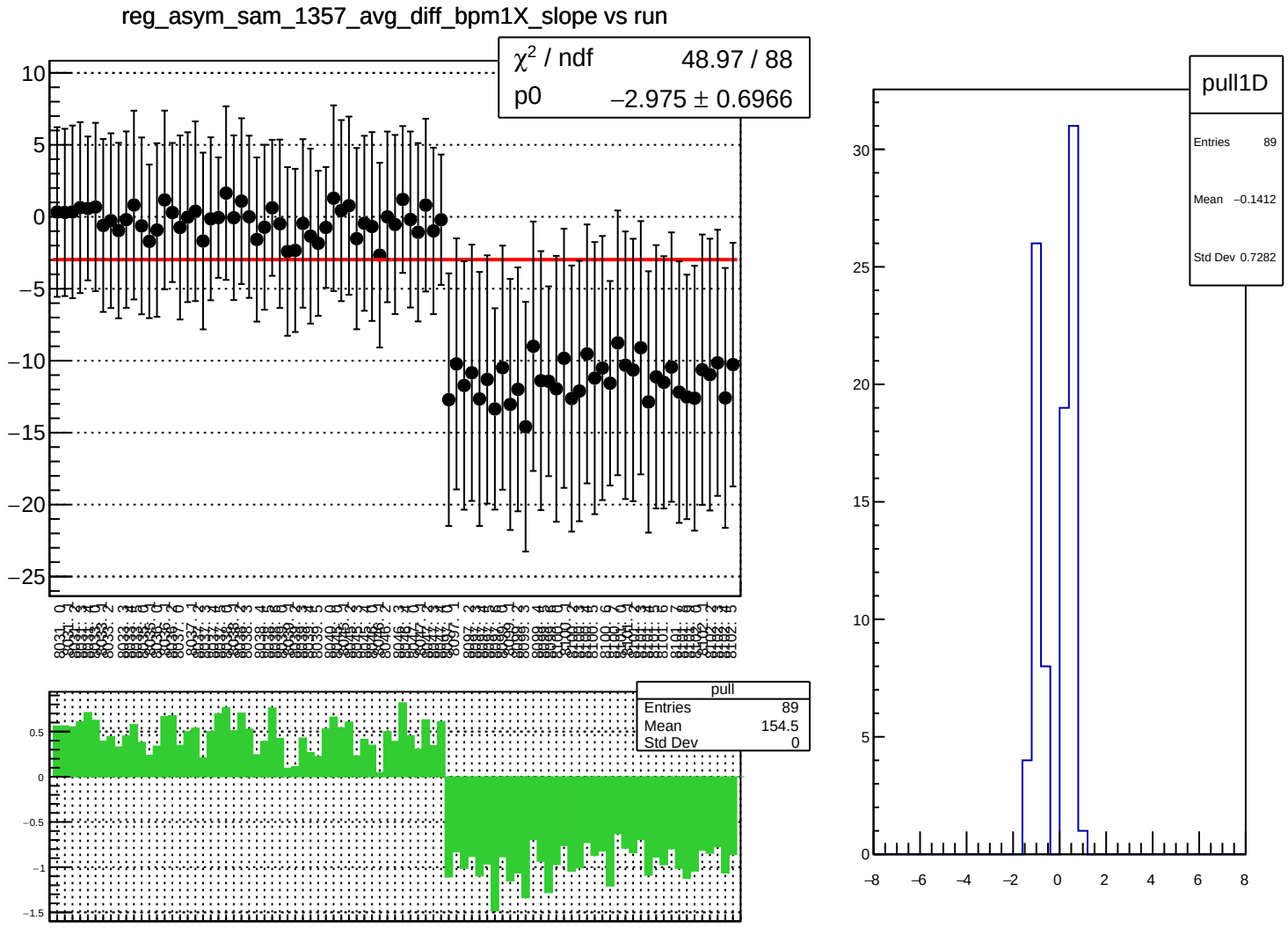

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 43.04 / 88
p0 −6.243 ± 0.1836
pull
Entries 89
Mean 278.4
Std Dev 0
pull1D
Entries 89
Mean 0.05285
Std Dev 0.6934

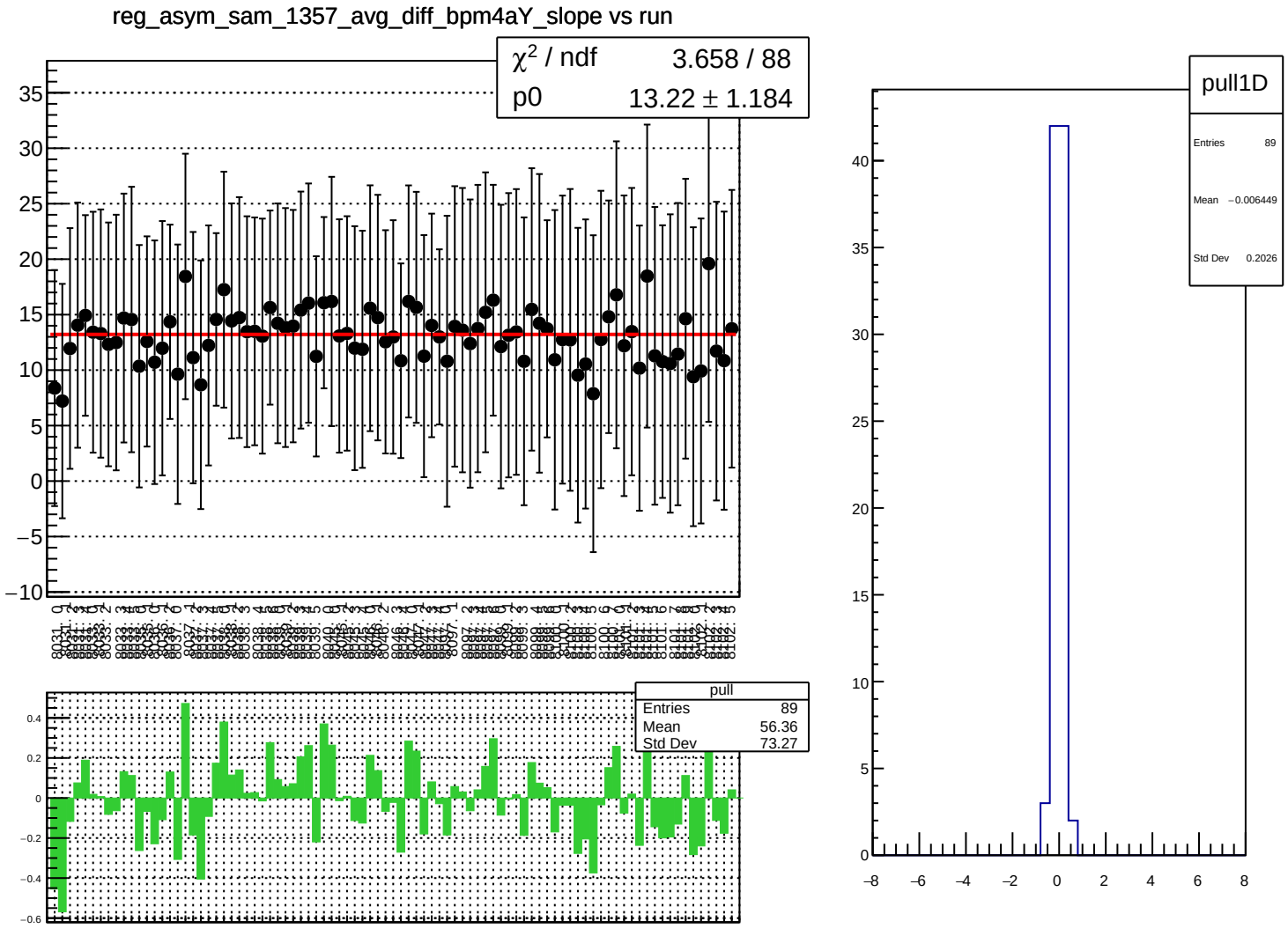

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 95.97 / 88
p0 −1.353 ± 0.3055
pull
Entries 89
Mean 259.5
Std Dev 0

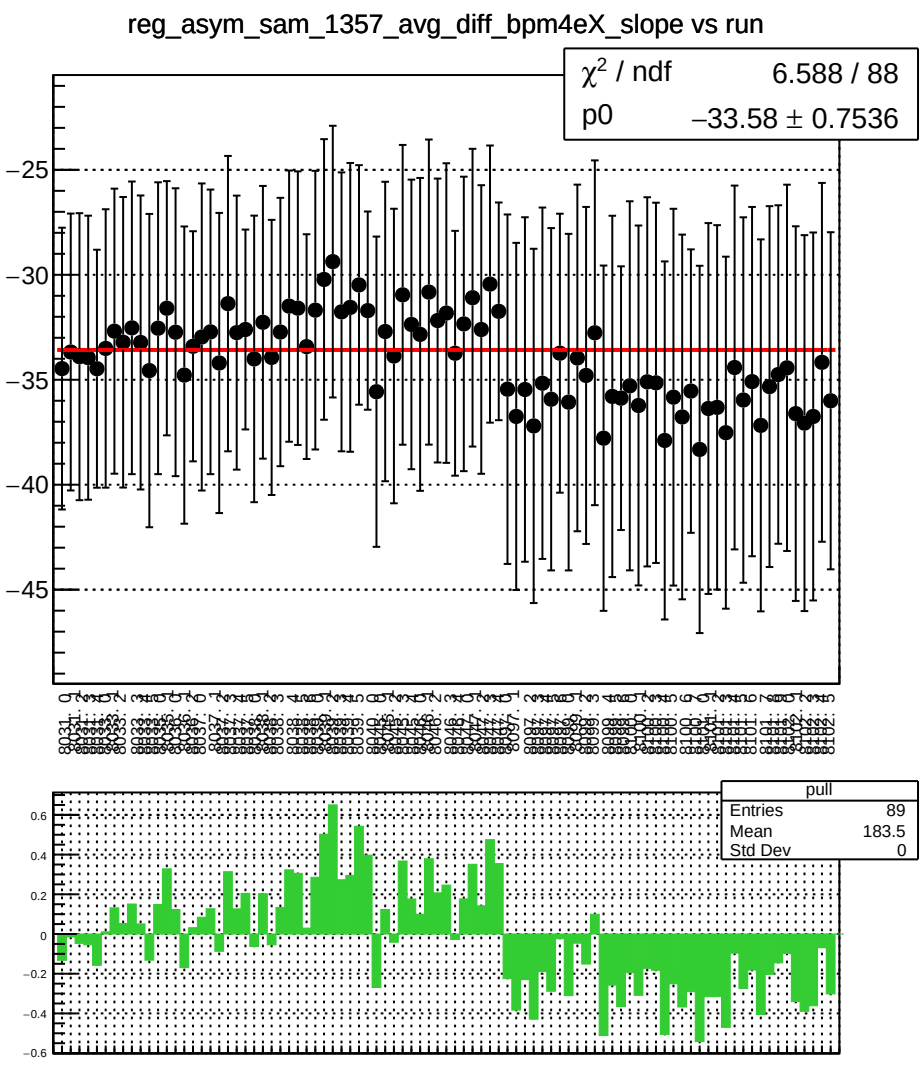

pull1D
Entries 89
Mean 0.09083
Std Dev 1.034

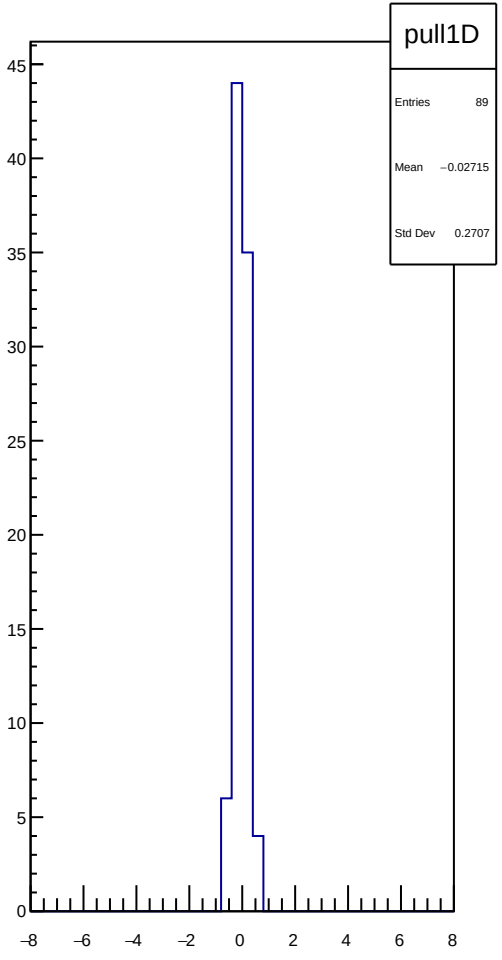

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 407.1 / 88
p0 −0.547 ± 0.01534
pull
Entries 89
Mean −94.42
Std Dev 0

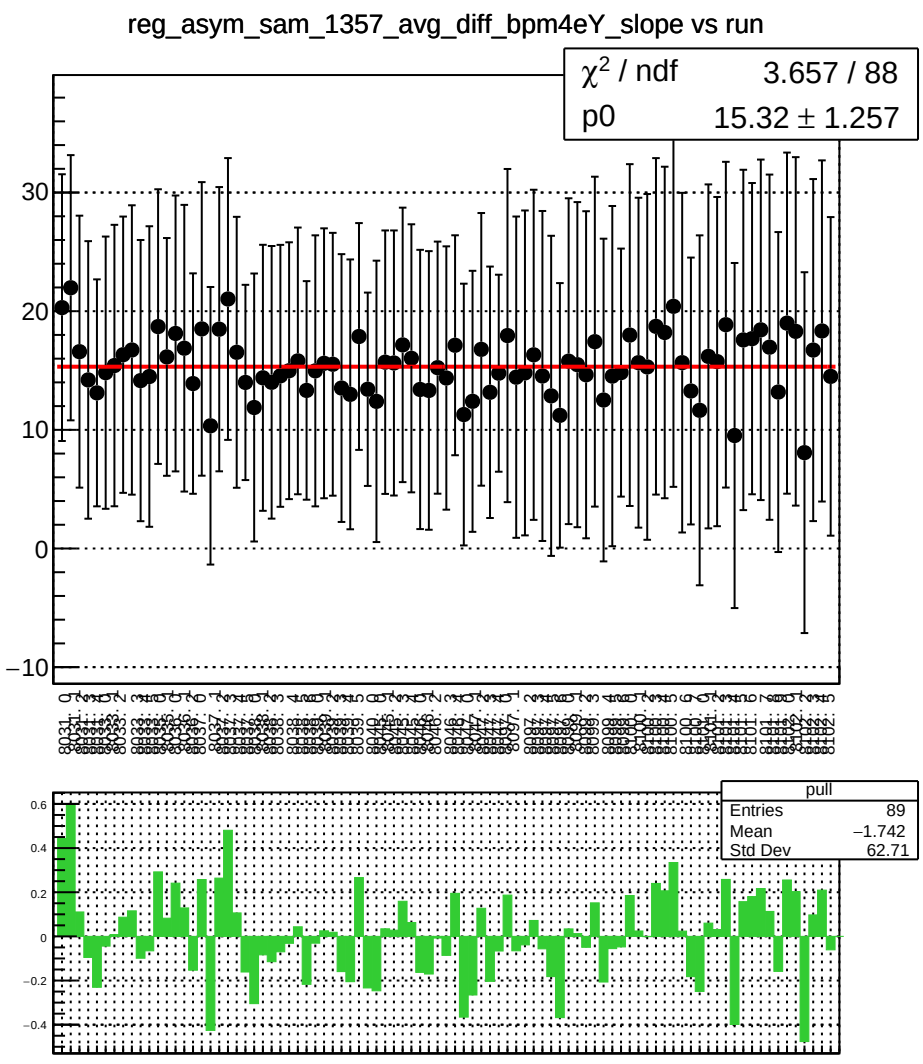

pull1D
Entries 89
Mean 0.3336
Std Dev 2.112

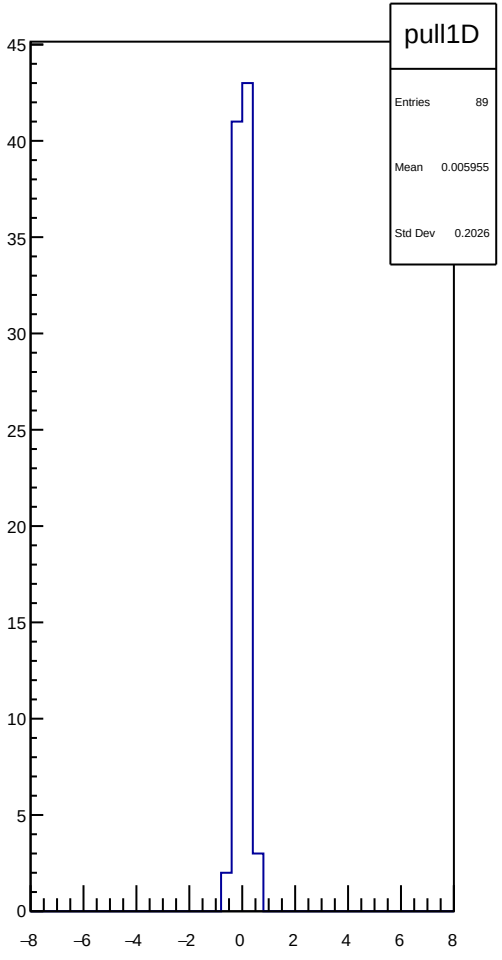

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 48.97 / 88
p0 −2.975 ± 0.6966
pull
Entries 89
Mean 154.5
Std Dev 0
pull1D
Entries 89
Mean −0.1412
Std Dev 0.7282

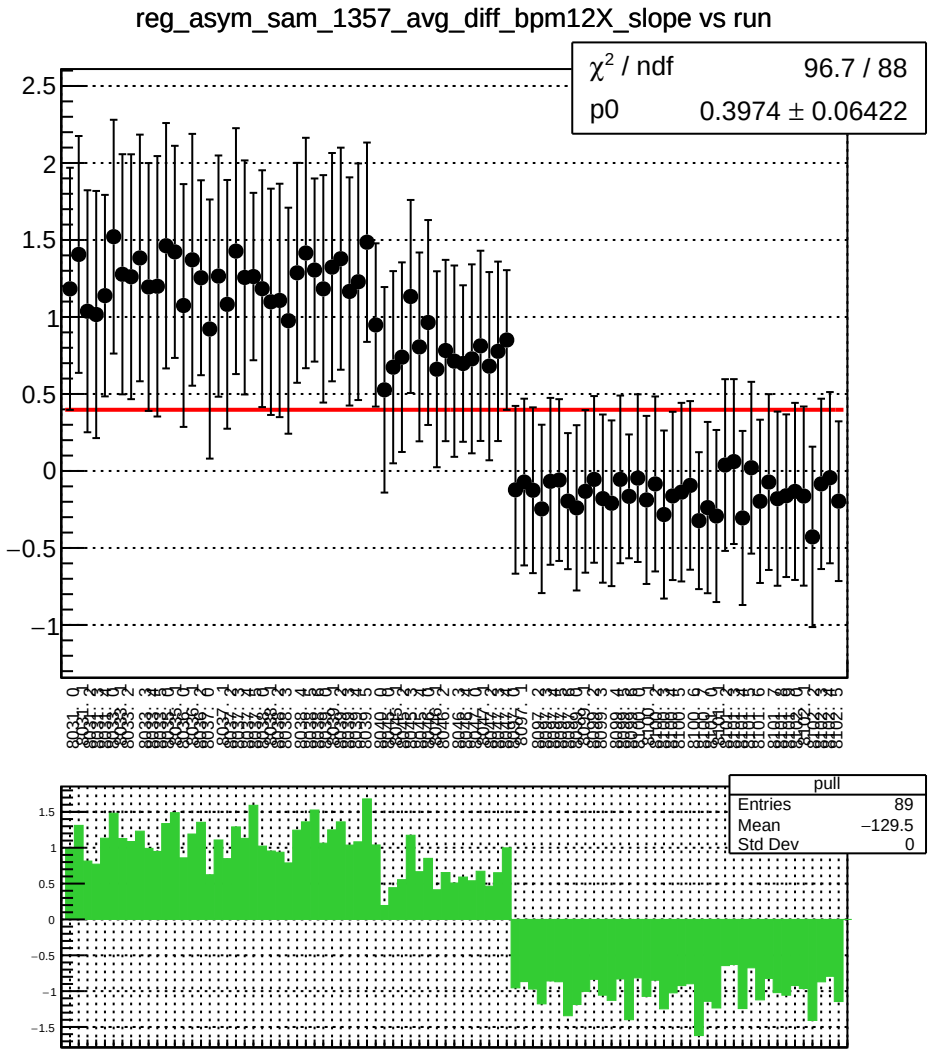

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.658 / 88
p0 13.22 ± 1.184
pull
Entries 89
Mean 56.36
Std Dev 73.27
pull1D
Entries 89
Mean −0.006449
Std Dev 0.2026

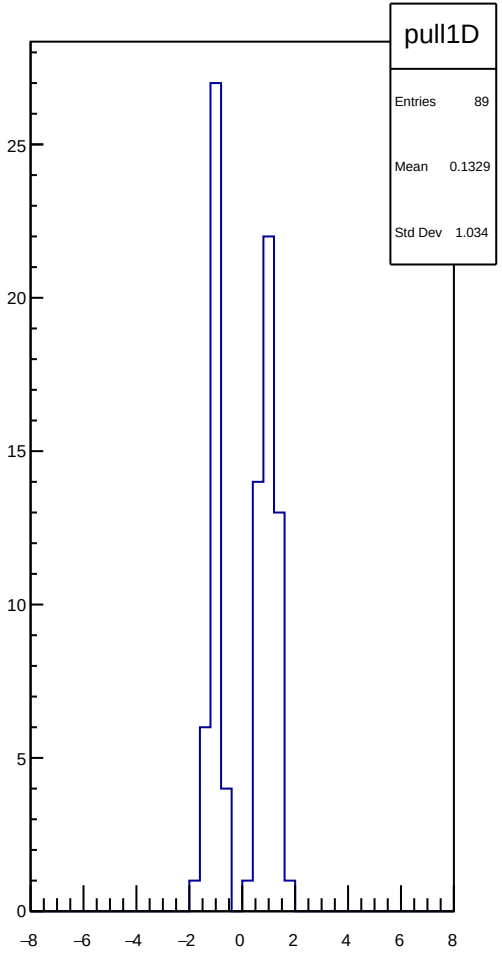

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.588 / 88
p0 −33.58 ± 0.7536
−25
−30
−35
−40
−45
pull
Entries 89
Mean 183.5
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

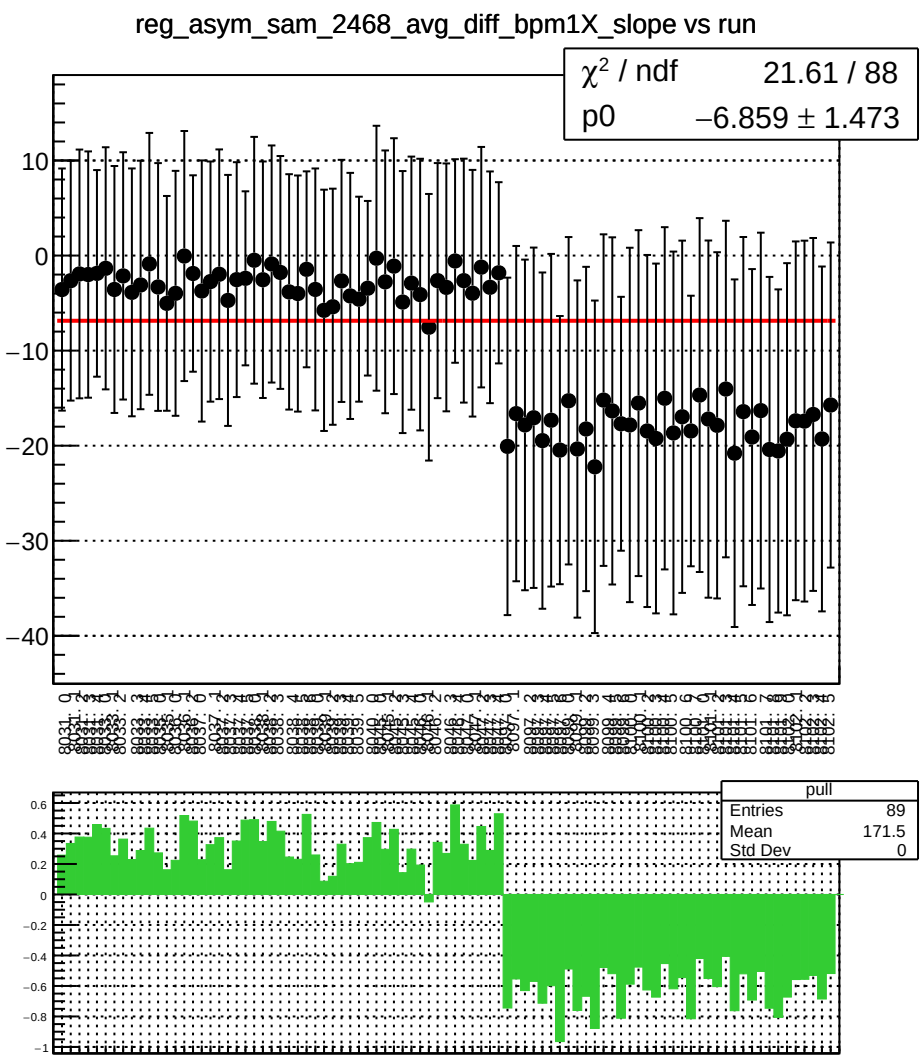

pull1D
Entries 89
Mean −0.02715
Std Dev 0.2707
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

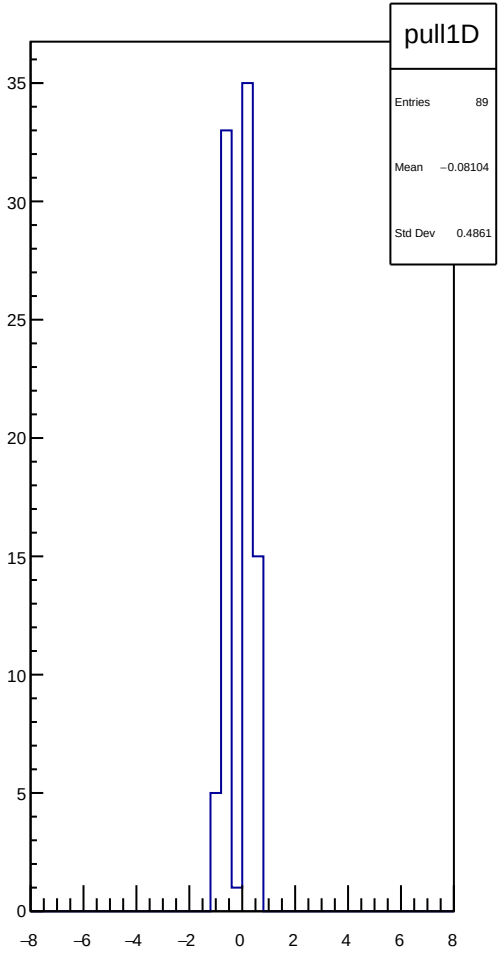

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.657 / 88
p0 15.32 ± 1.257
pull
Entries 89
Mean −1.742
Std Dev 62.71

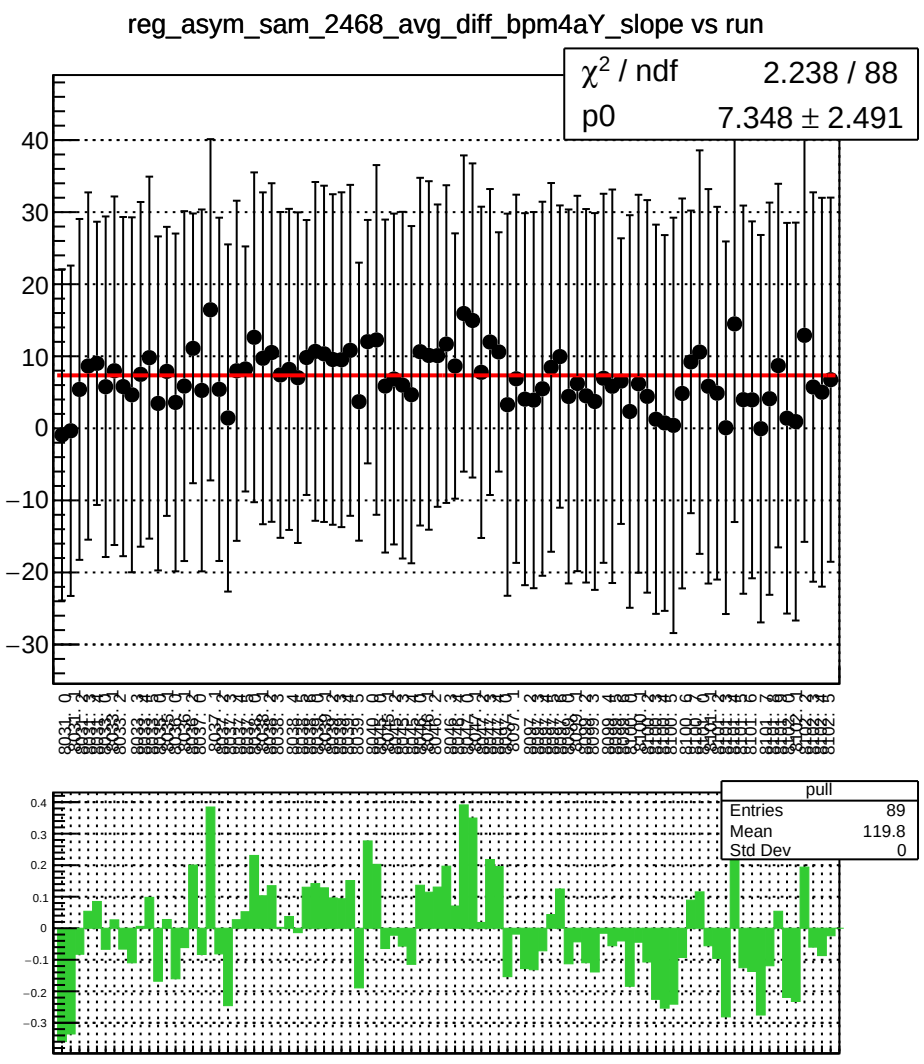

pull1D
Entries 89
Mean 0.005955
Std Dev 0.2026

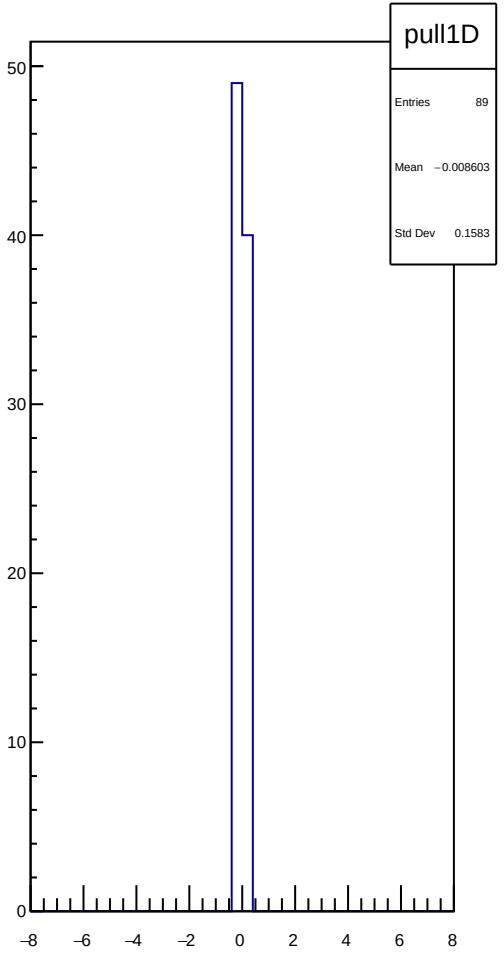

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 96.7 / 88
p0 0.3974 ± 0.06422
pull
Entries 89
Mean −129.5
Std Dev 0

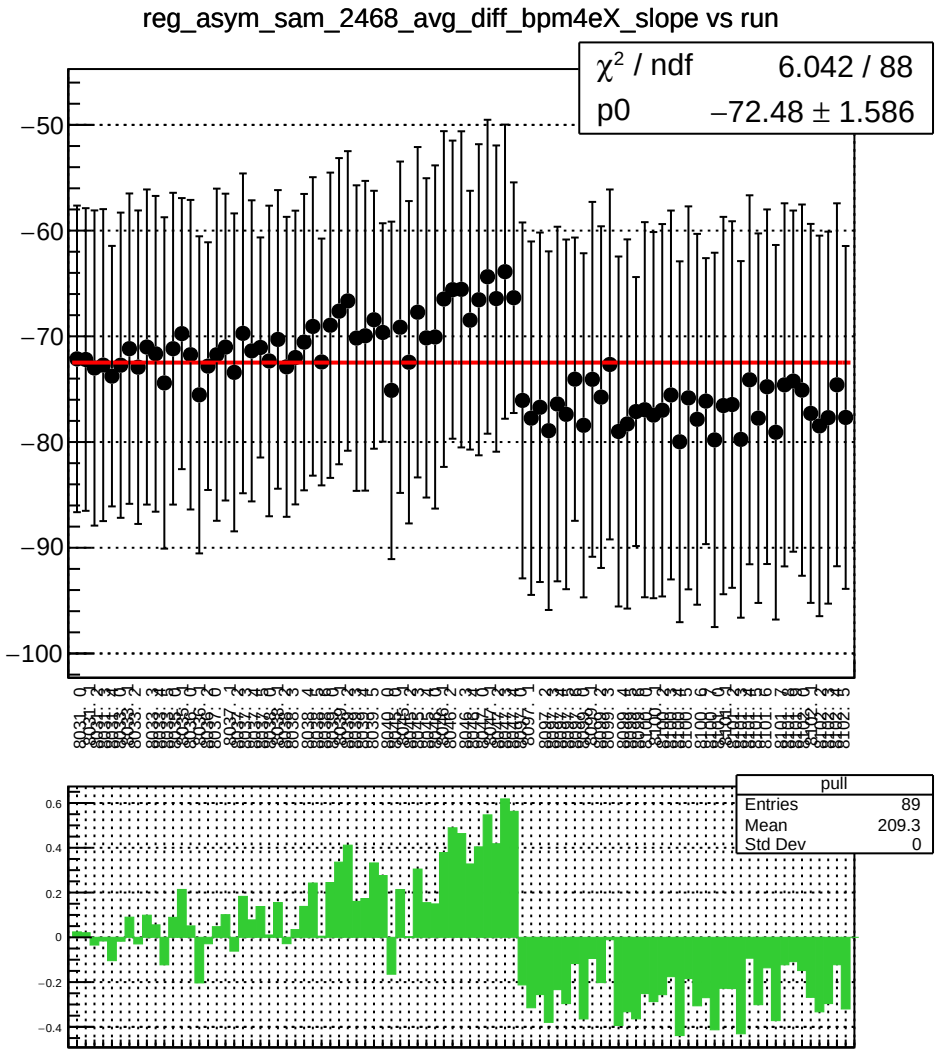

pull1D
Entries 89
Mean 0.1329
Std Dev 1.034

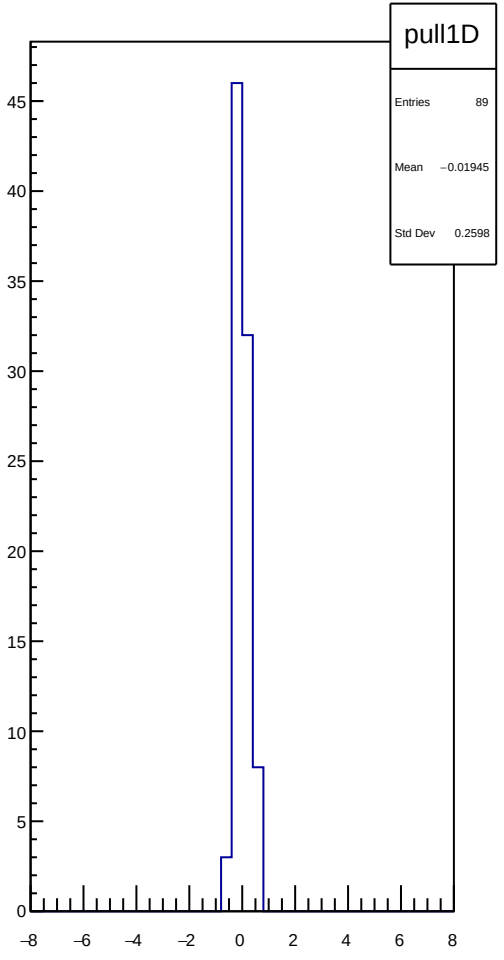

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 21.61 / 88
p0 −6.859 ± 1.473
pull
Entries 89
Mean 171.5
Std Dev 0

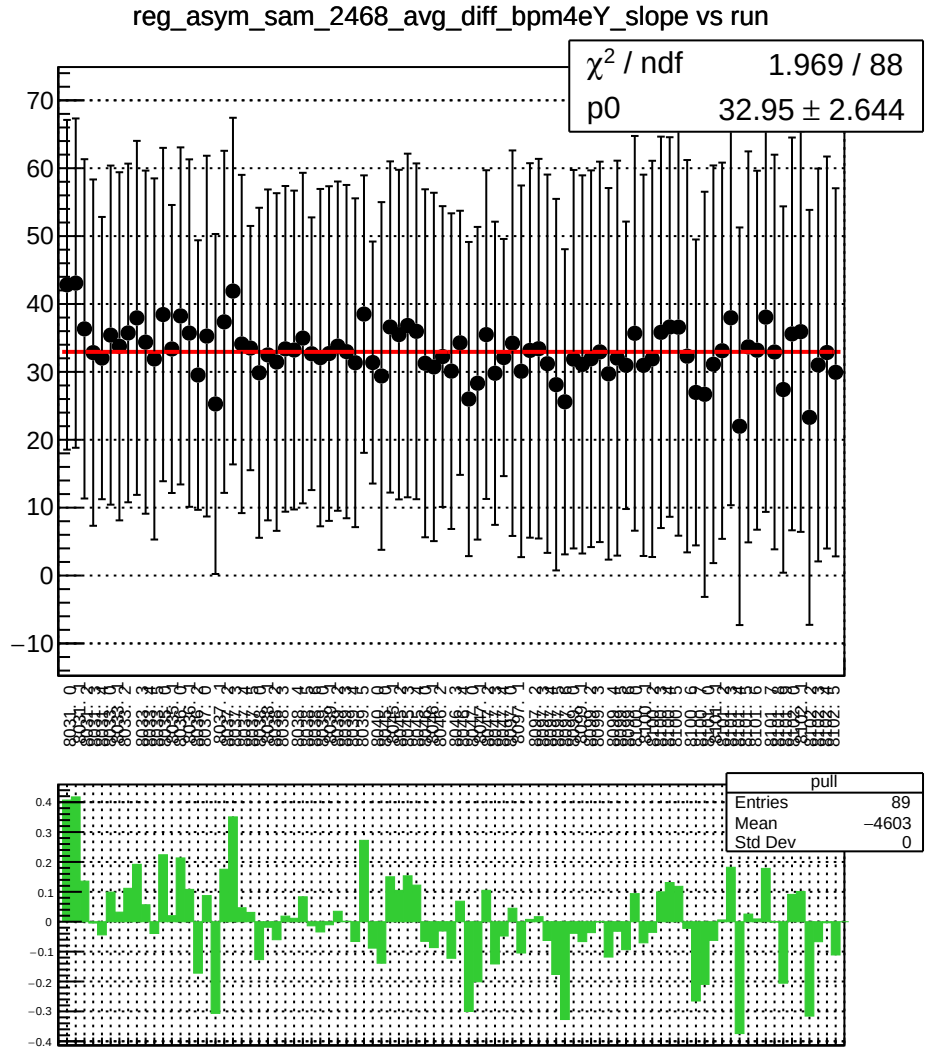

pull1D
Entries 89
Mean −0.08104
Std Dev 0.4861

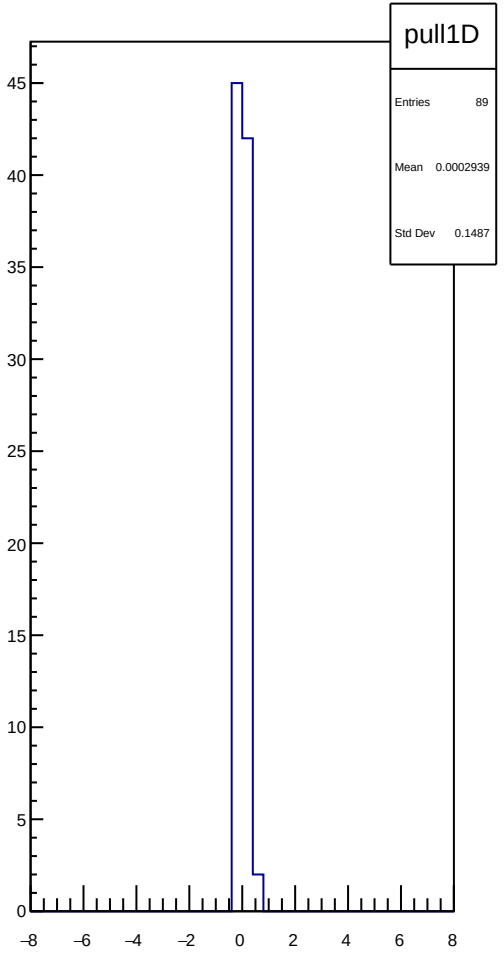

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.238 / 88
p0 7.348 ± 2.491
pull
Entries 89
Mean 119.8
Std Dev 0

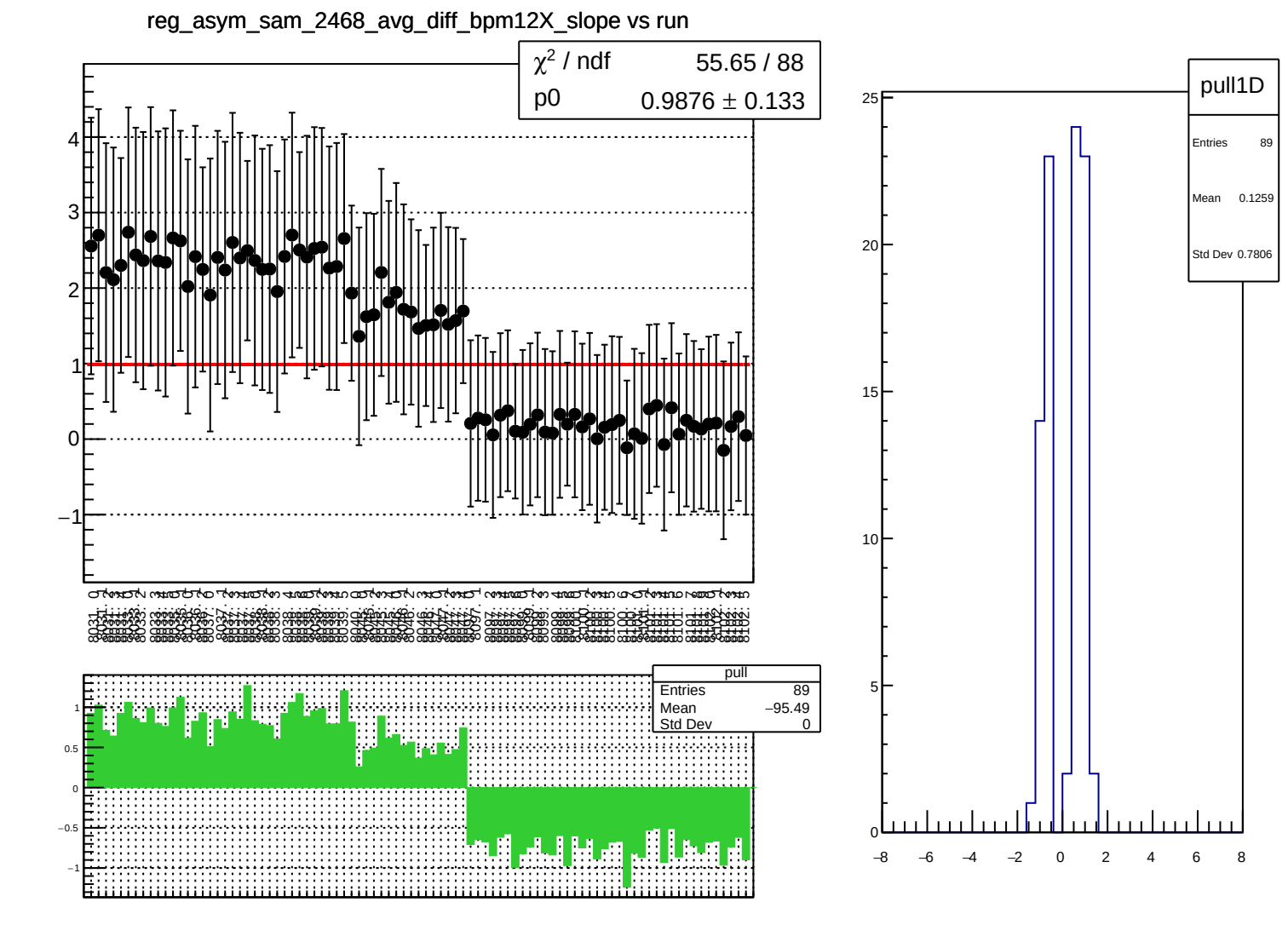

pull1D
Entries 89
Mean −0.008603
Std Dev 0.1583

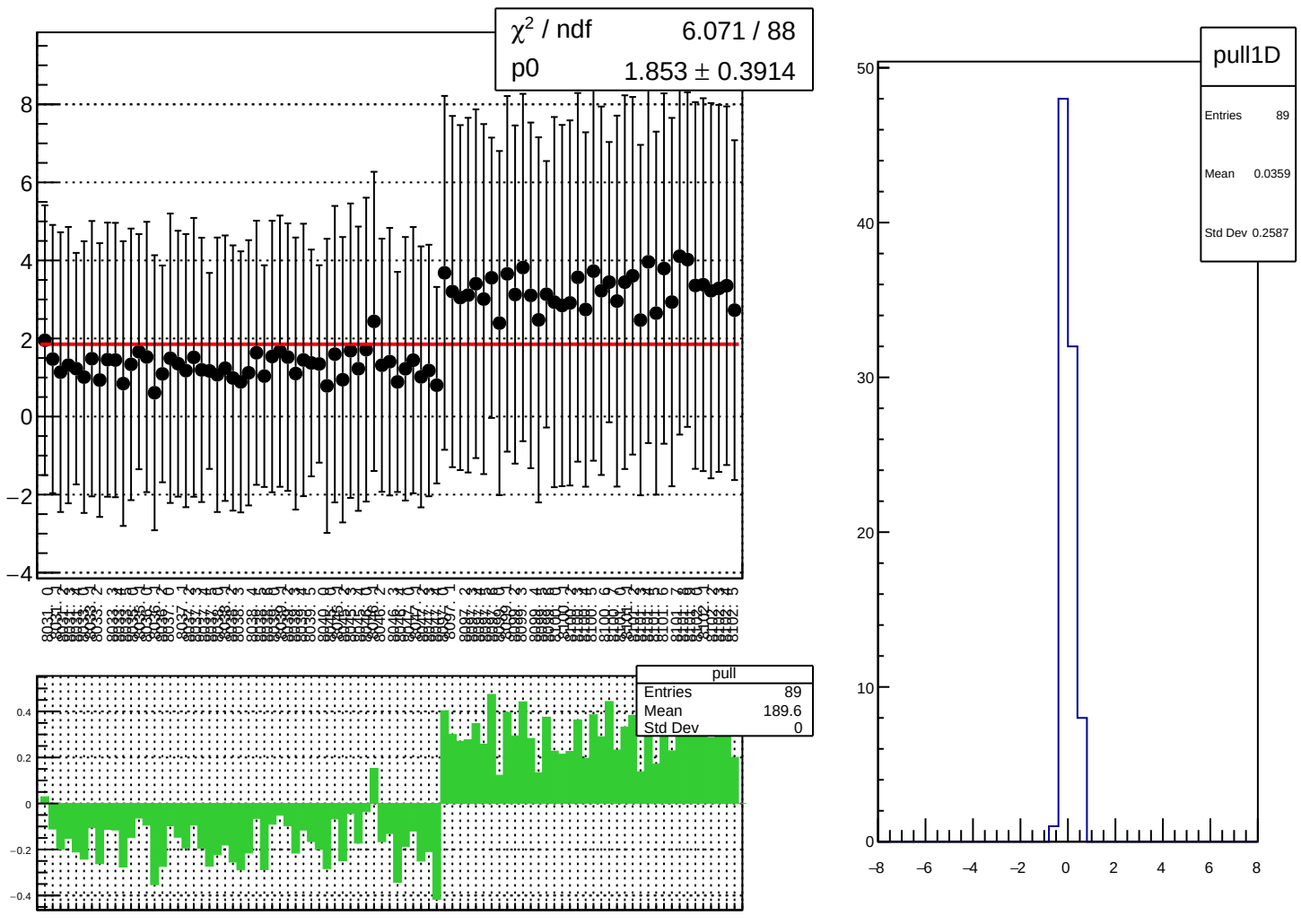

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.042 / 88
p0 −72.48 ± 1.586
−50
−60
−70
−80
−90
−100
pull
Entries 89
Mean 209.3
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4

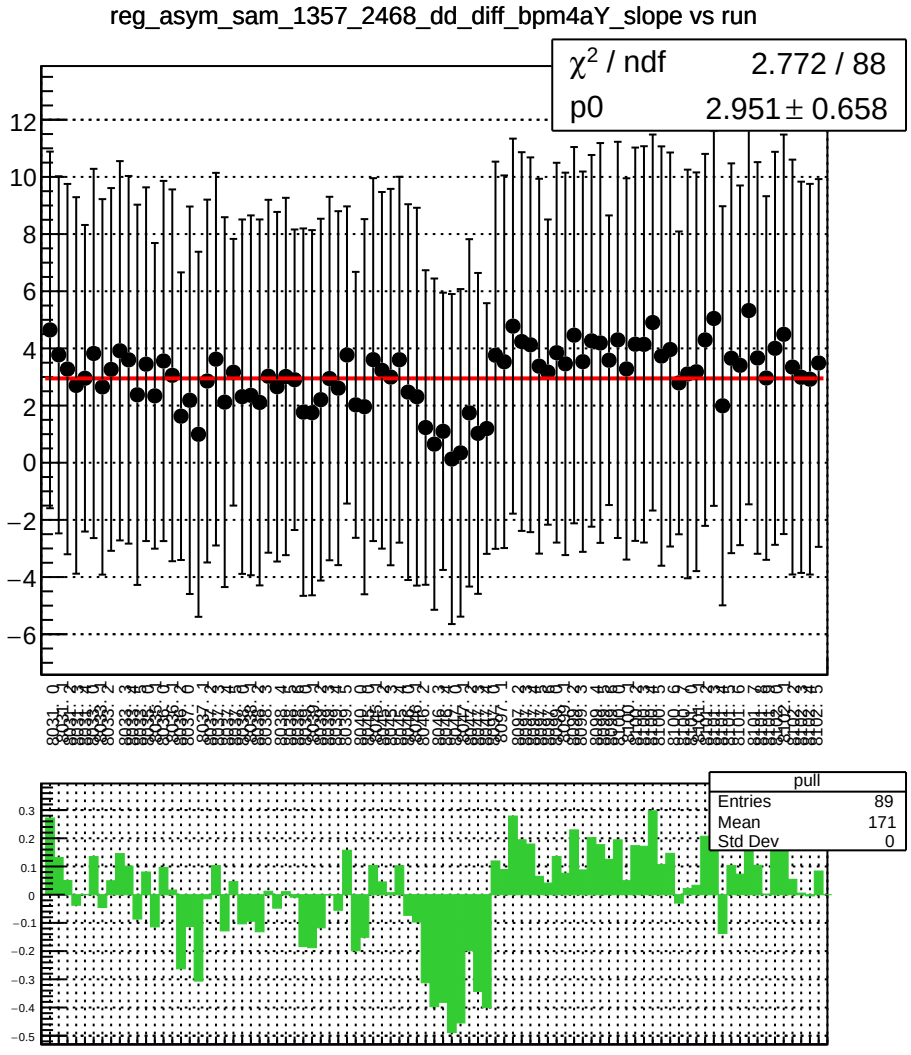

pull1D
Entries 89
Mean −0.01945
Std Dev 0.2598
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

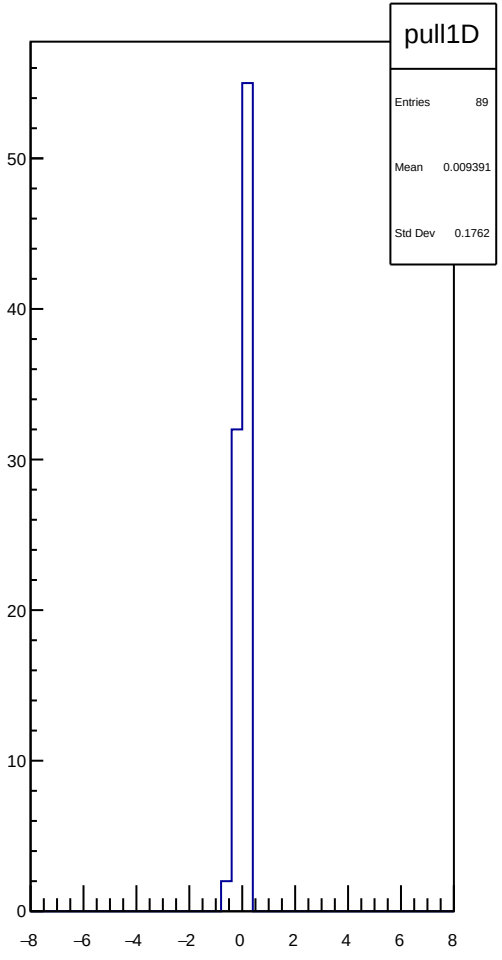

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.969 / 88
p0 32.95 ± 2.644
pull
Entries 89
Mean −4603
Std Dev 0

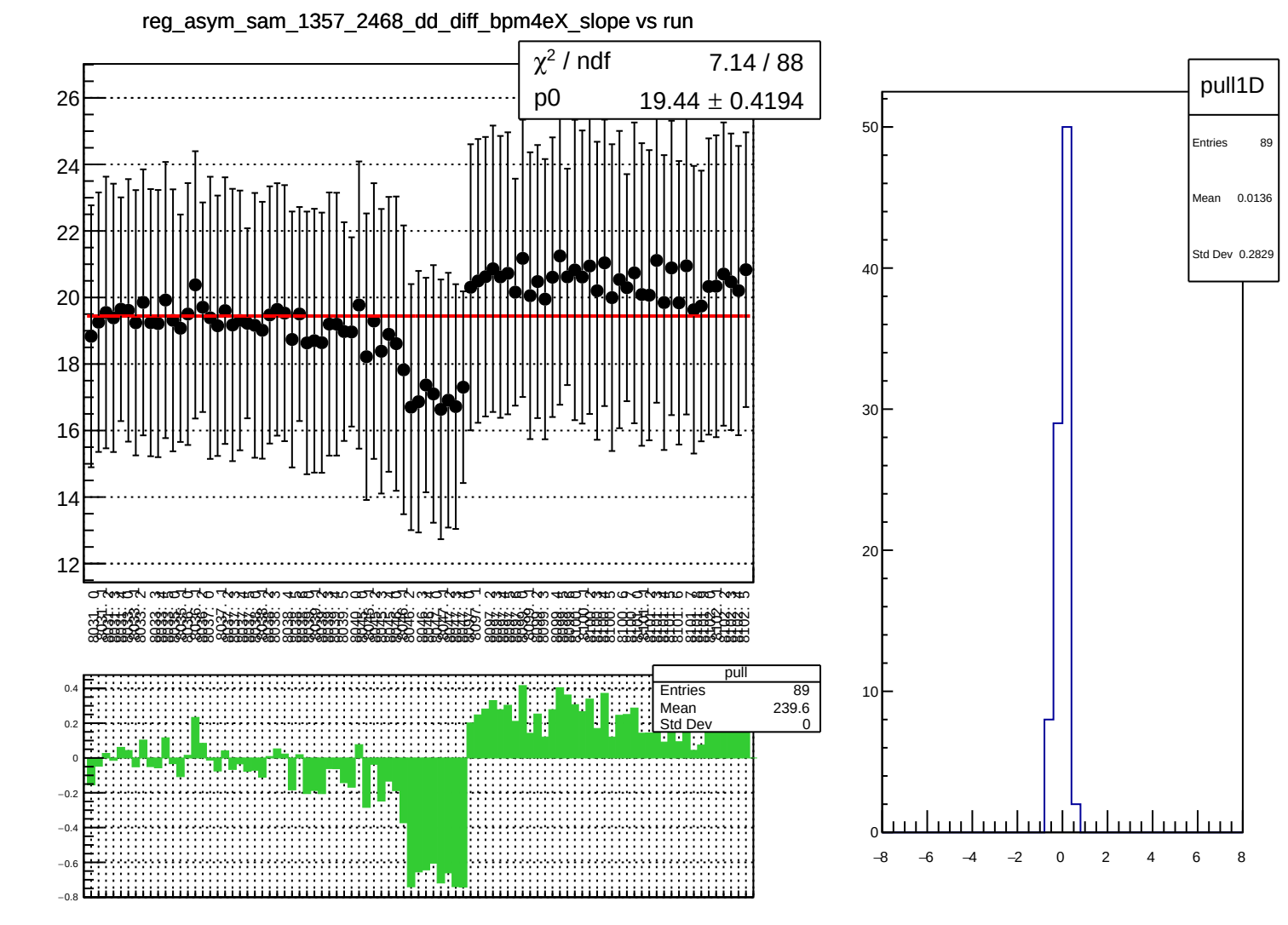

pull1D
Entries 89
Mean 0.0002939
Std Dev 0.1487

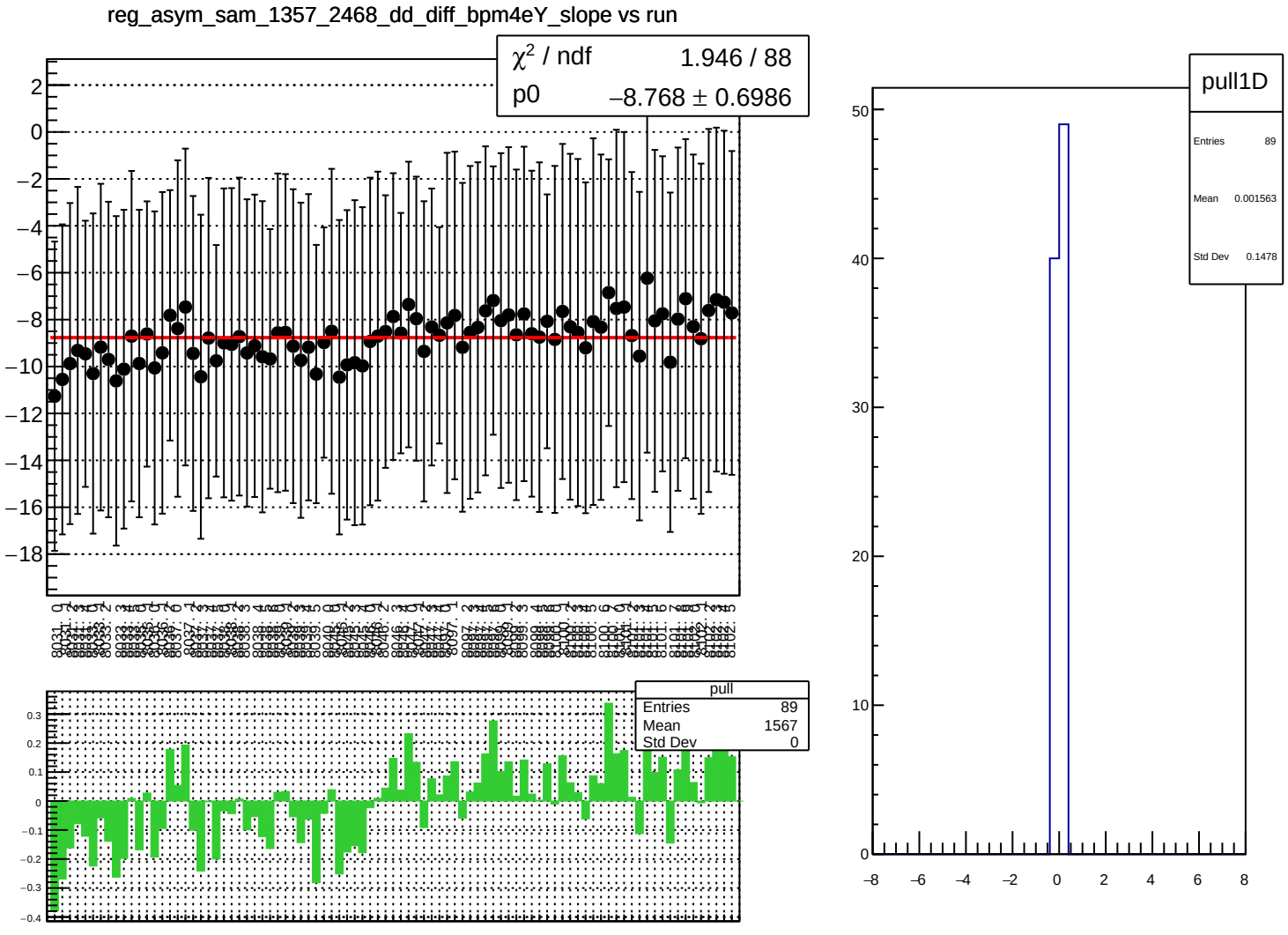

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 55.65 / 88
p0 0.9876 ± 0.133
pull
Entries 89
Mean −95.49
Std Dev 0
pull1D
Entries 89
Mean 0.1259
Std Dev 0.7806

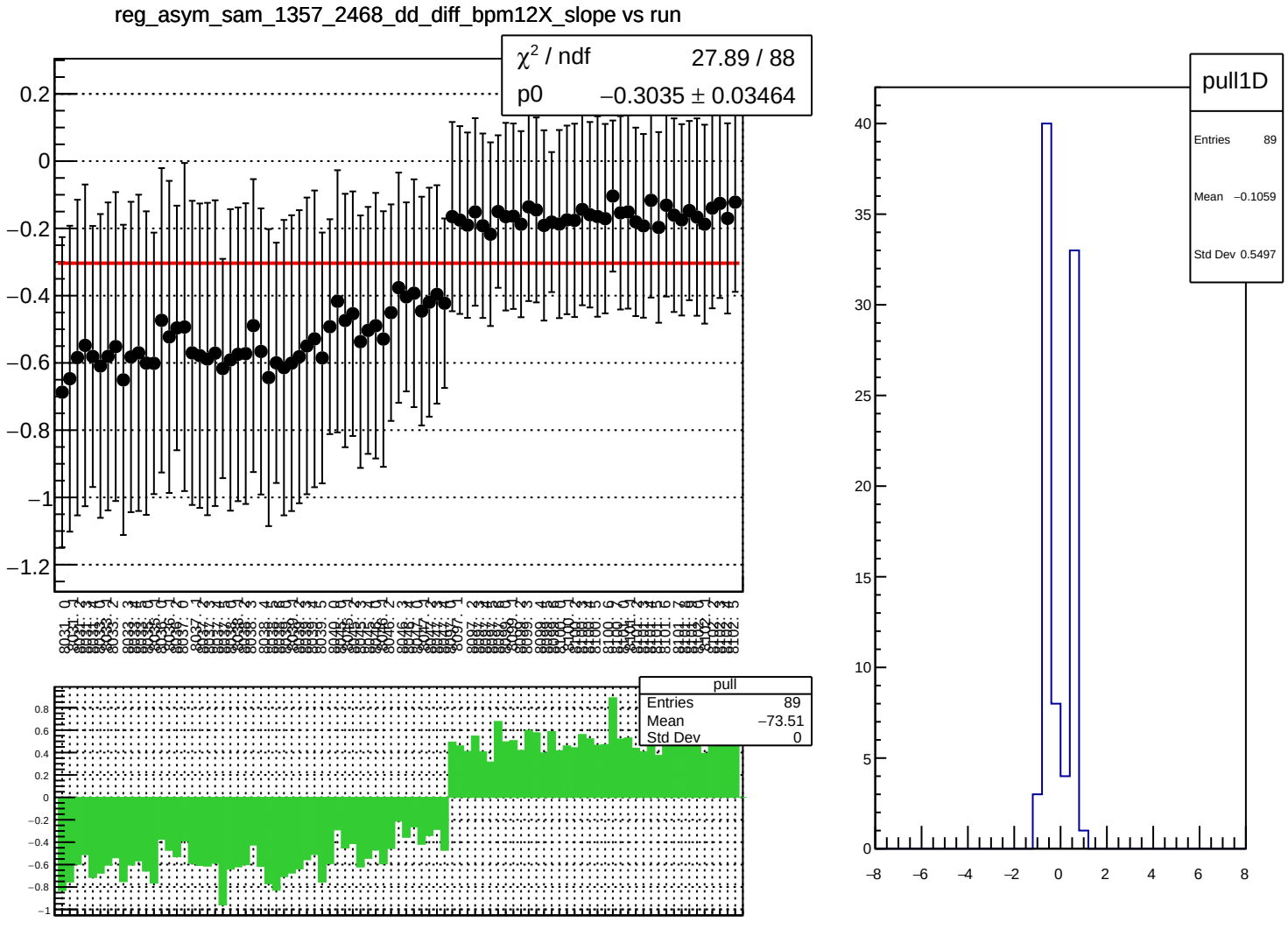

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 6.071 / 88
p0 1.853 ± 0.3914
pull
Entries 89
Mean 189.6
Std Dev 0
pull1D
Entries 89
Mean 0.0359
Std Dev 0.2587

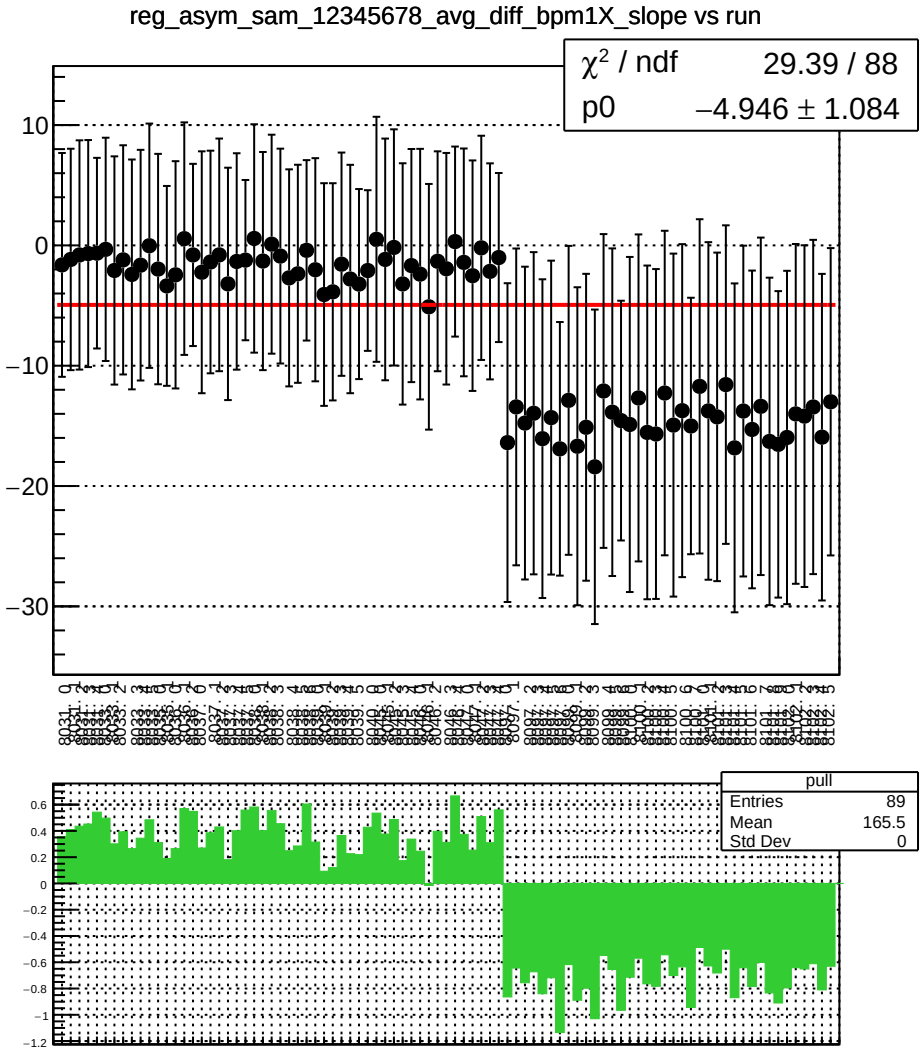

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.772 / 88
p0 2.951 ± 0.658
pull
Entries 89
Mean 171
Std Dev 0

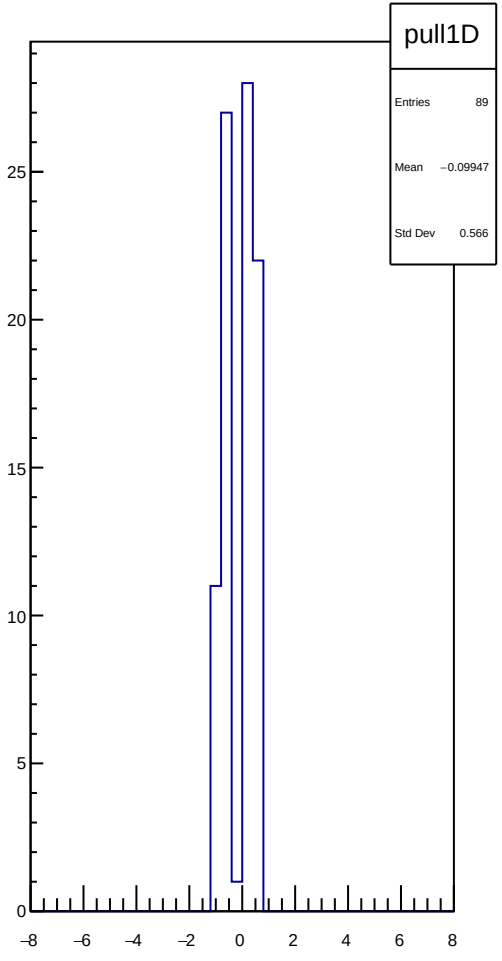

pull1D
Entries 89
Mean 0.009391
Std Dev 0.1762

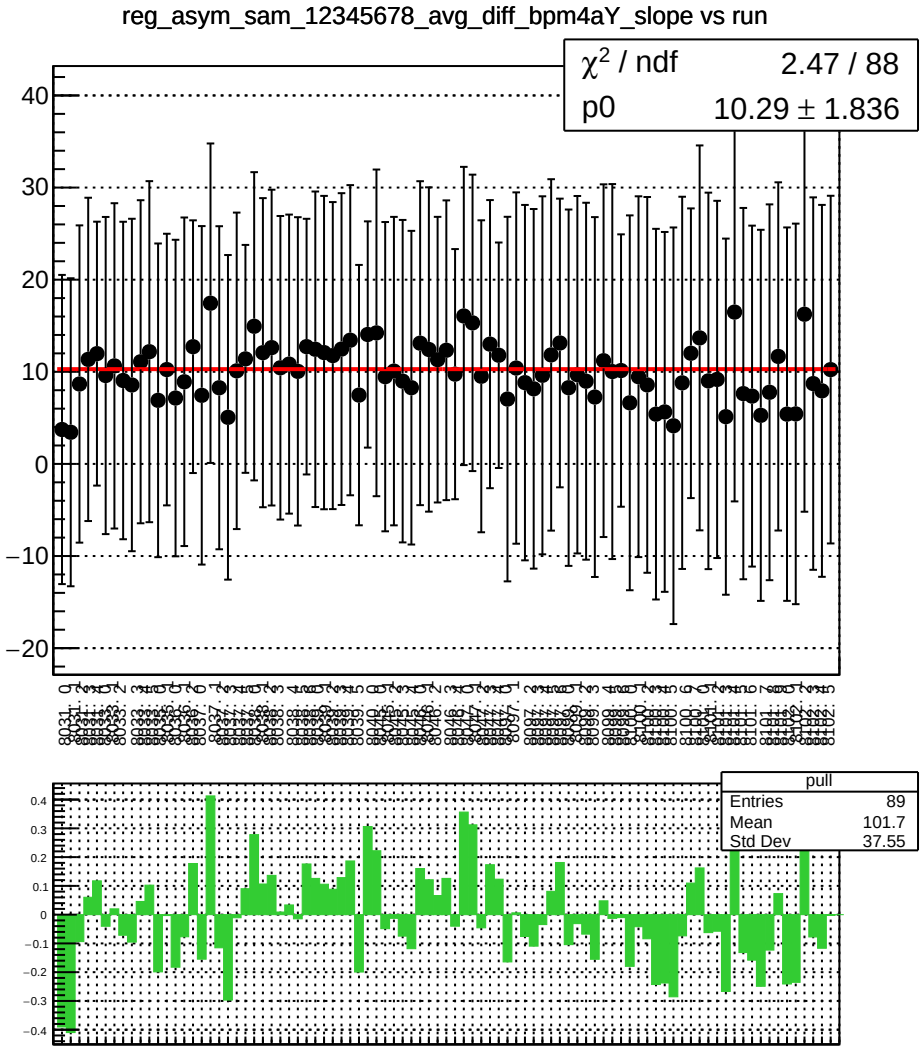

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.14 / 88
p0 19.44 ± 0.4194
pull
Entries 89
Mean 239.6
Std Dev 0
pull1D
Entries 89
Mean 0.0136
Std Dev 0.2829

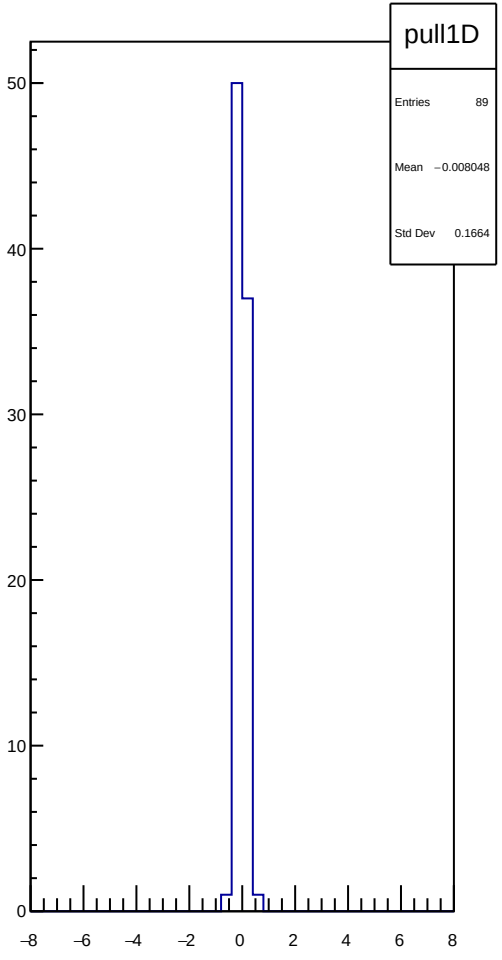

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.946 / 88
p0 −8.768 ± 0.6986
pull
Entries 89
Mean 1567
Std Dev 0
pull1D
Entries 89
Mean 0.001563
Std Dev 0.1478

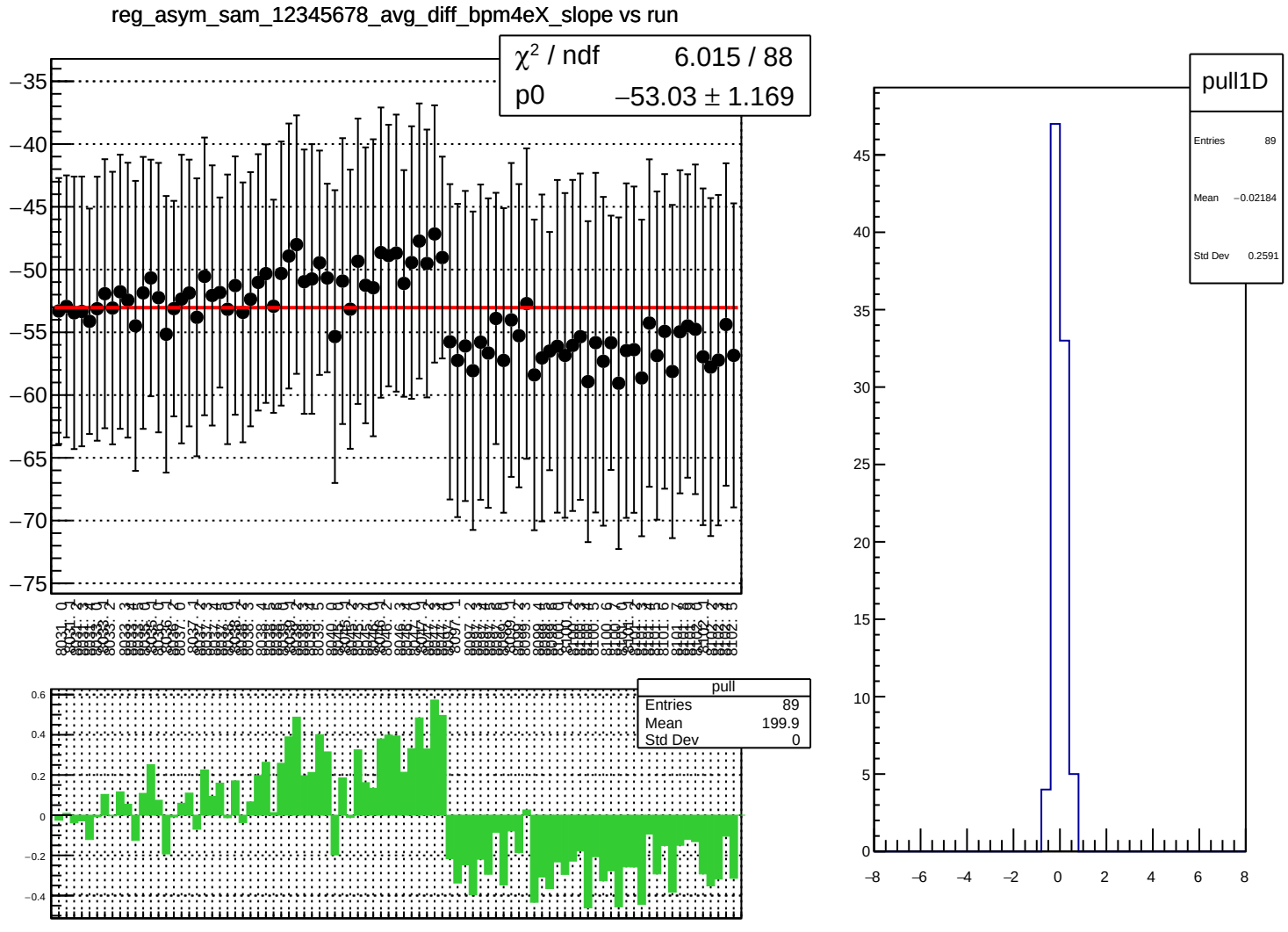

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 27.89 / 88
p0 −0.3035 ± 0.03464
pull
Entries 89
Mean −73.51
Std Dev 0
pull1D
Entries 89
Mean −0.1059
Std Dev 0.5497

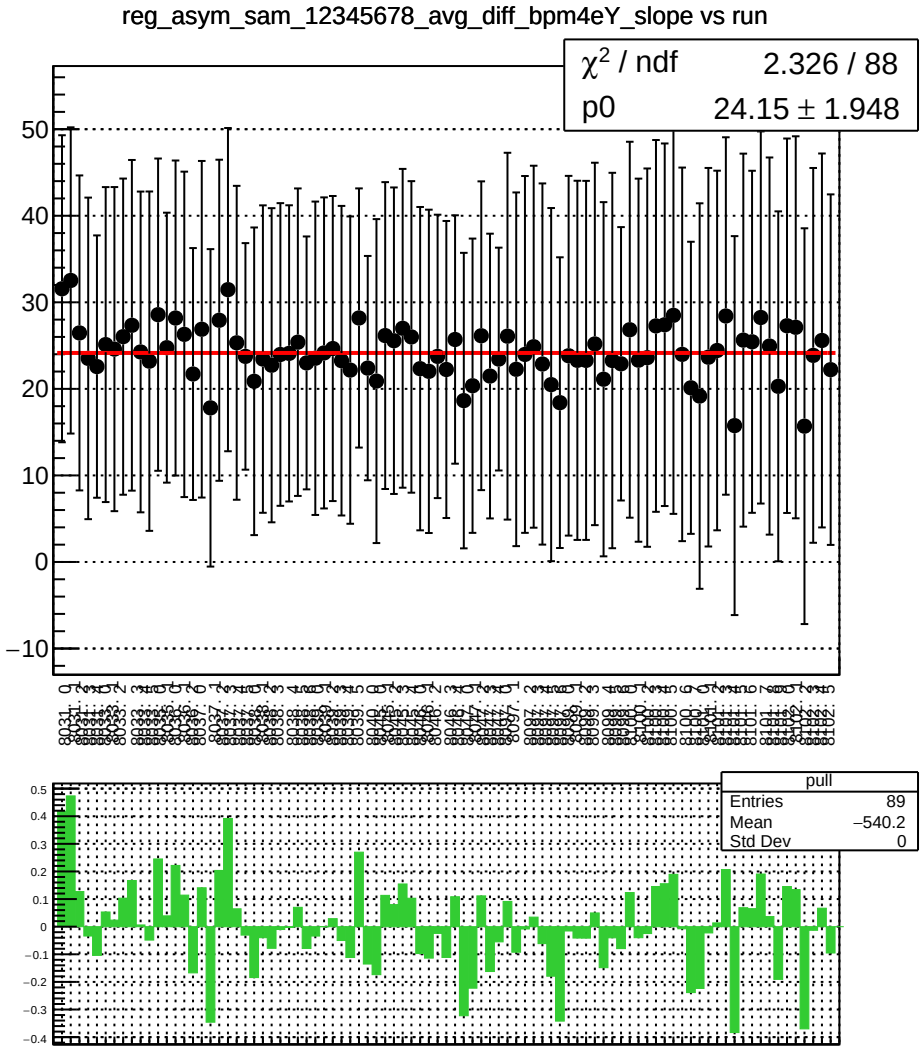

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 29.39 / 88
p0 −4.946 ± 1.084
pull
Entries 89
Mean 165.5
Std Dev 0

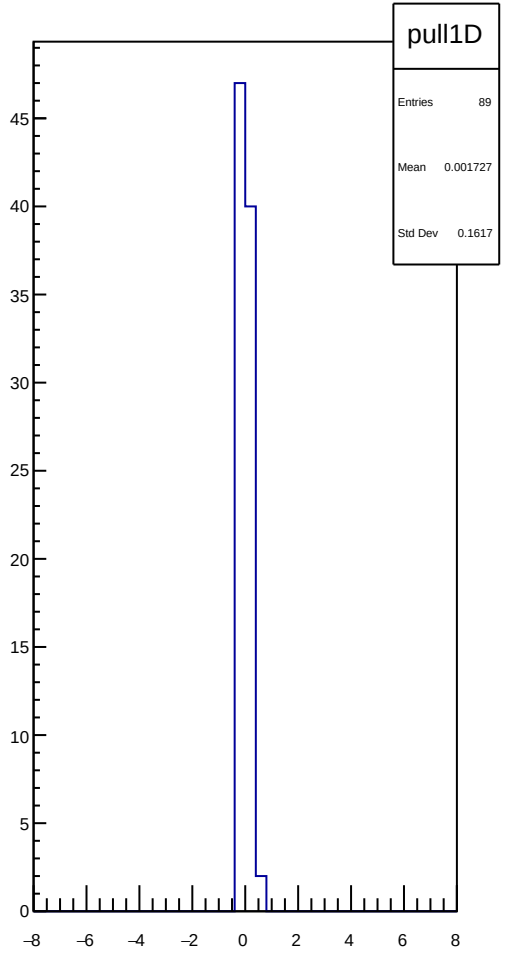

pull1D
Entries 89
Mean −0.09947
Std Dev 0.566

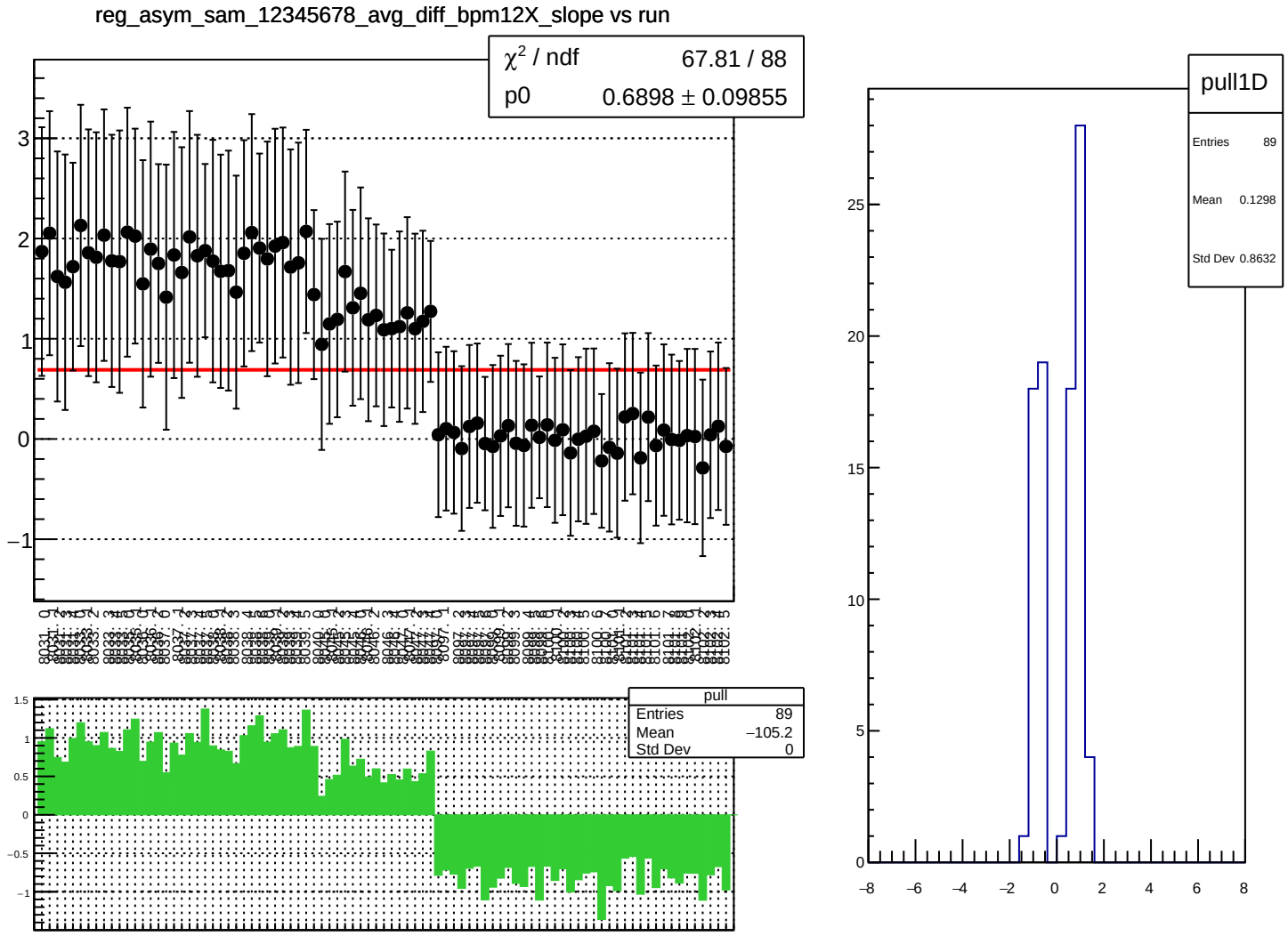

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.47 / 88
p0 10.29 ± 1.836
pull
Entries 89
Mean 101.7
Std Dev 37.55

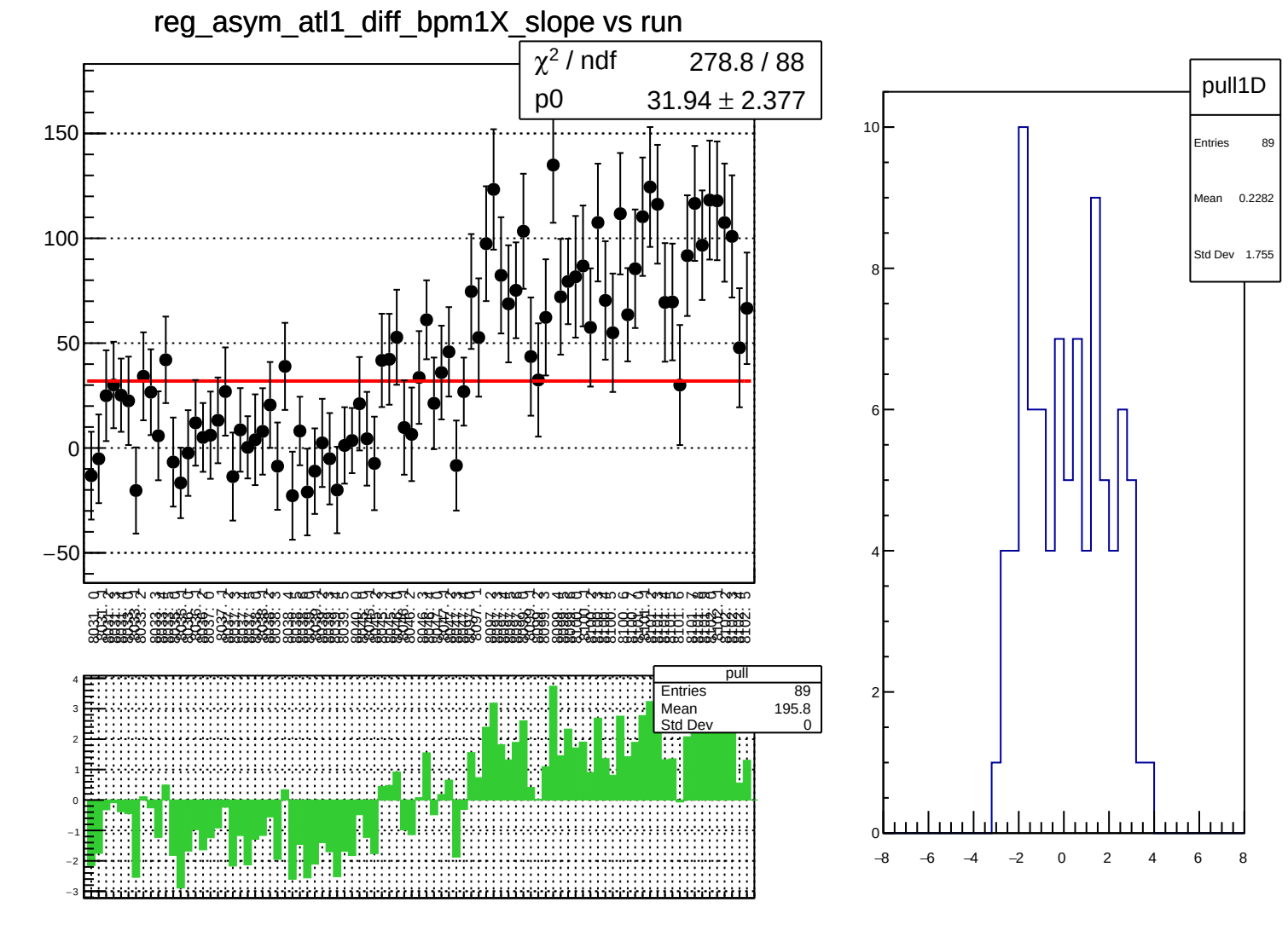

pull1D
Entries 89
Mean −0.008048
Std Dev 0.1664

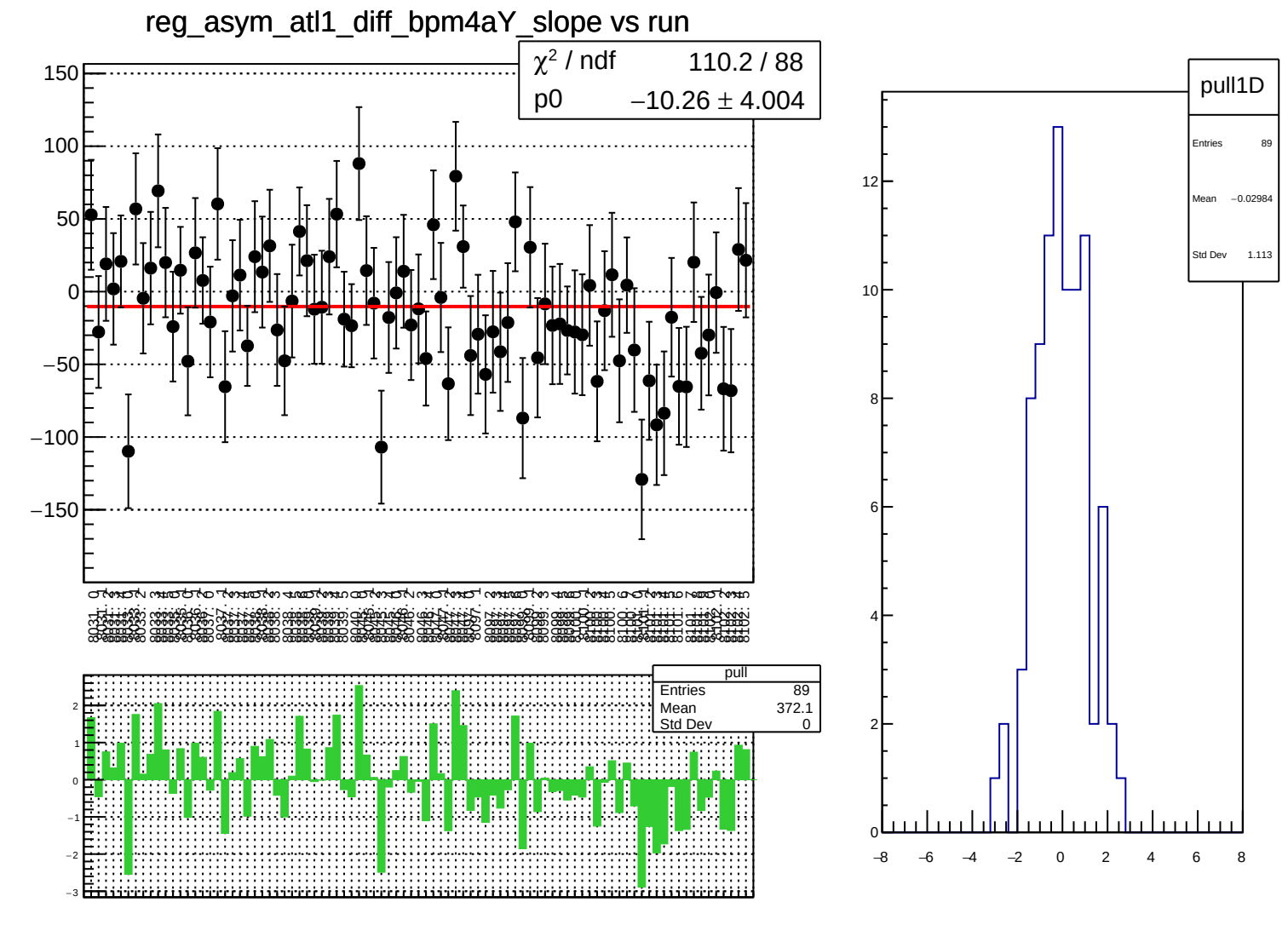

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.015 / 88
p0 −53.03 ± 1.169
pull
Entries 89
Mean 199.9
Std Dev 0
pull1D
Entries 89
Mean −0.02184
Std Dev 0.2591

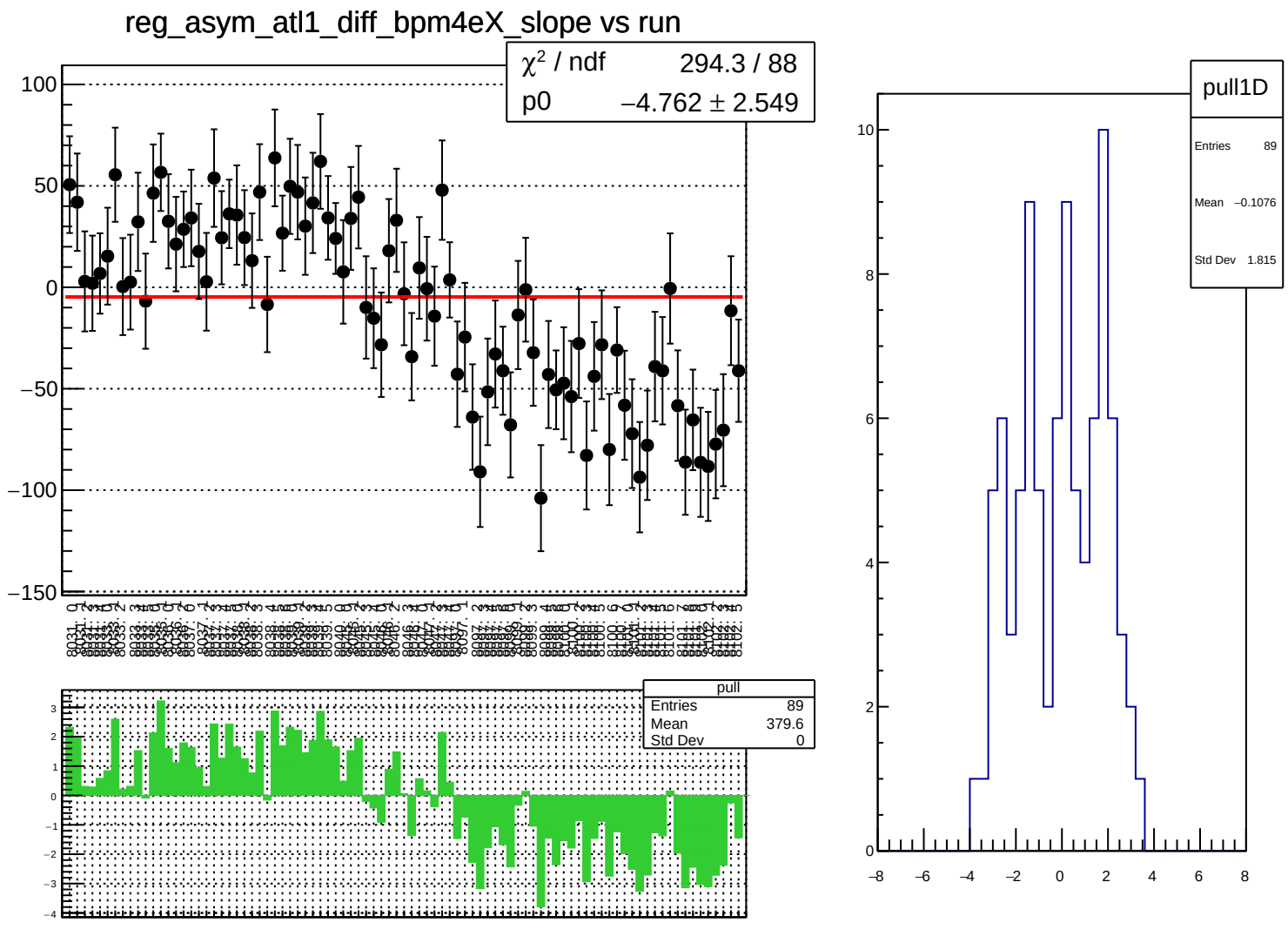

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
$\chi^2$ / ndf 2.326 / 88
p0 24.15 ± 1.948
pull
Entries 89
Mean −540.2
Std Dev 0

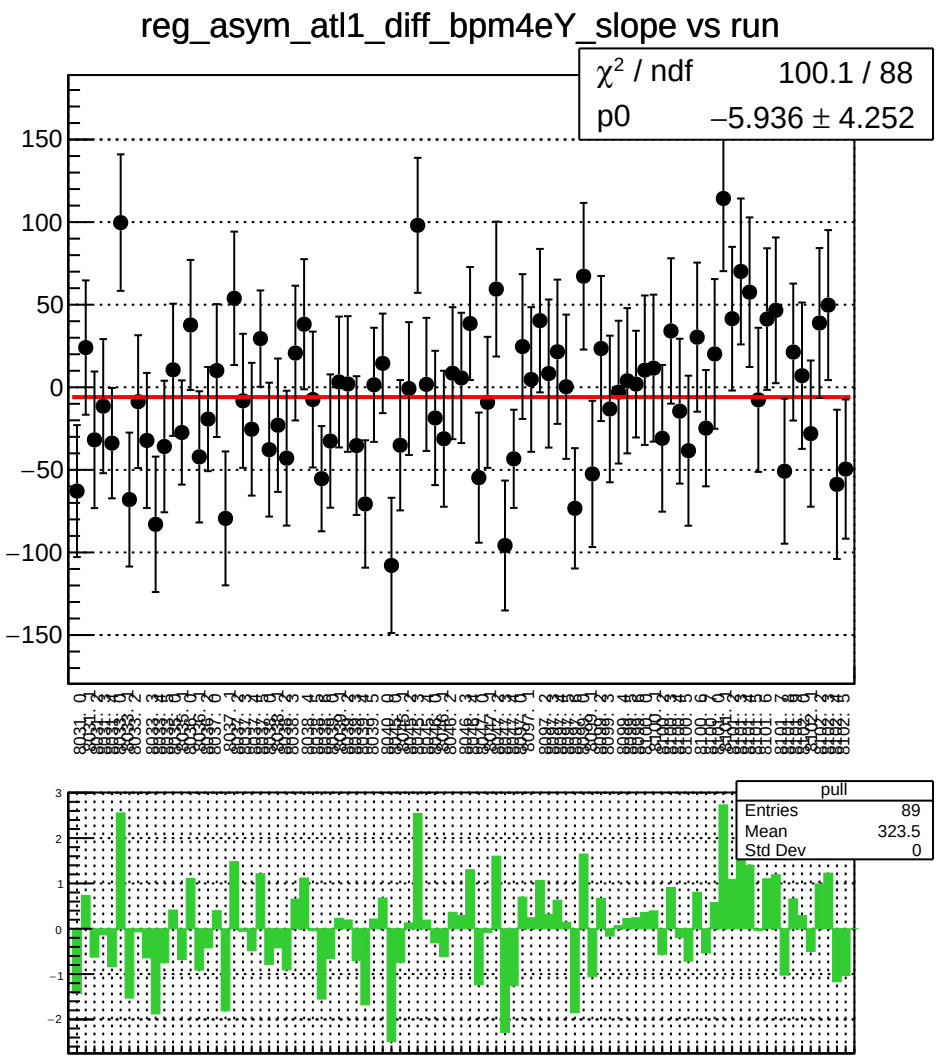

pull1D
Entries 89
Mean 0.001727
Std Dev 0.1617

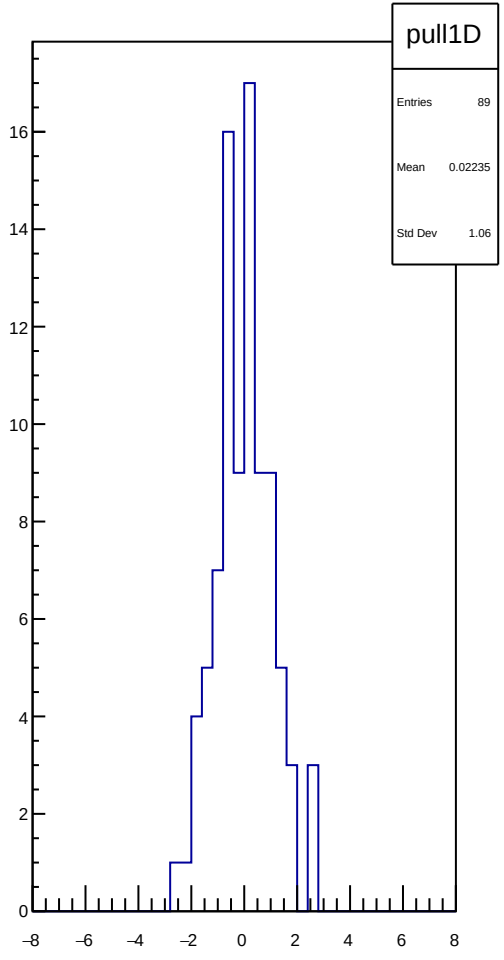

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 67.81 / 88
p0 0.6898 ± 0.09855
pull
Entries 89
Mean −105.2
Std Dev 0
pull1D
Entries 89
Mean 0.1298
Std Dev 0.8632

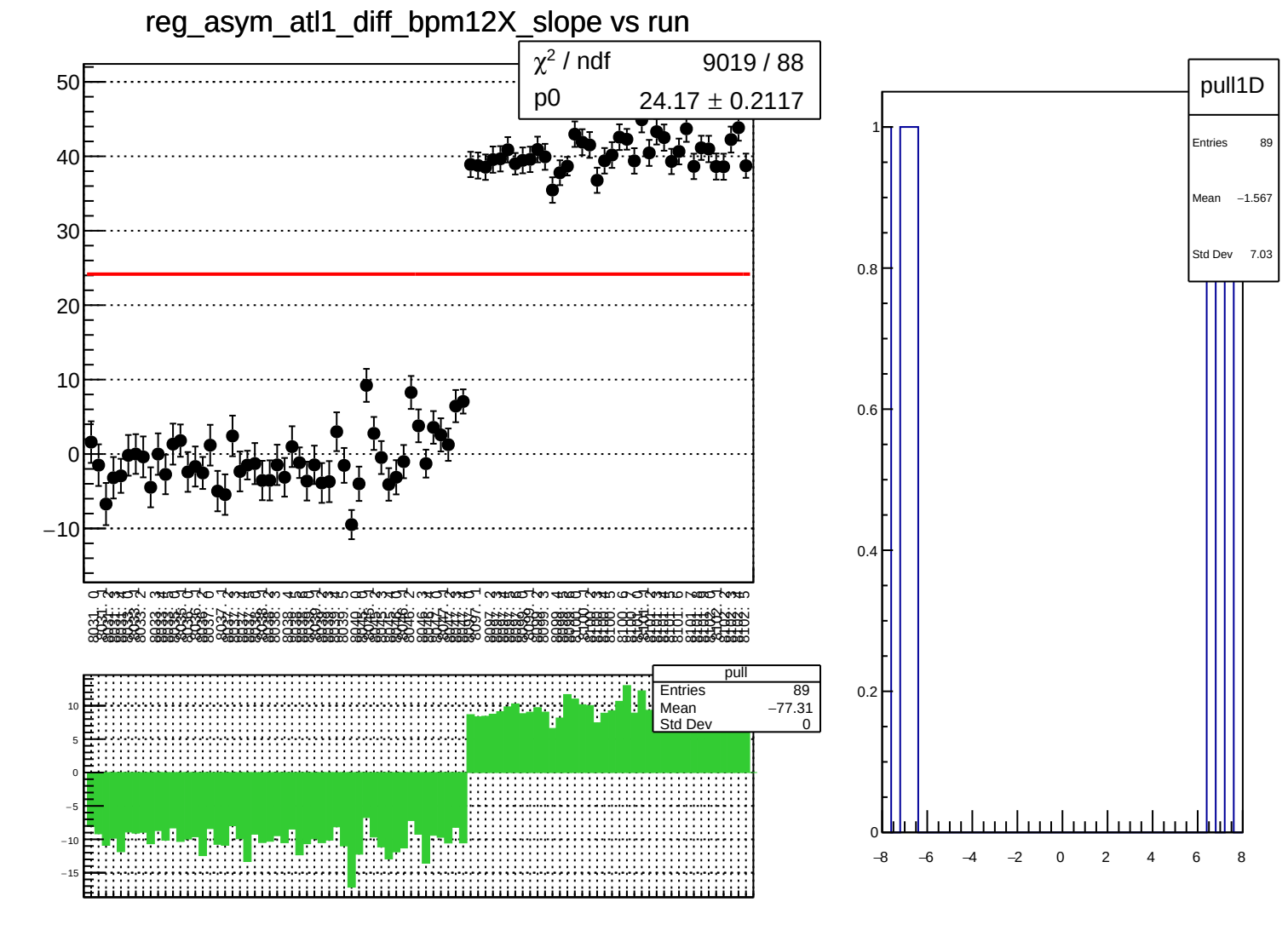

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 278.8 / 88
p0 31.94 ± 2.377
150
100
50
0
−50
pull
Entries 89
Mean 195.8
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.2282
Std Dev 1.755
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

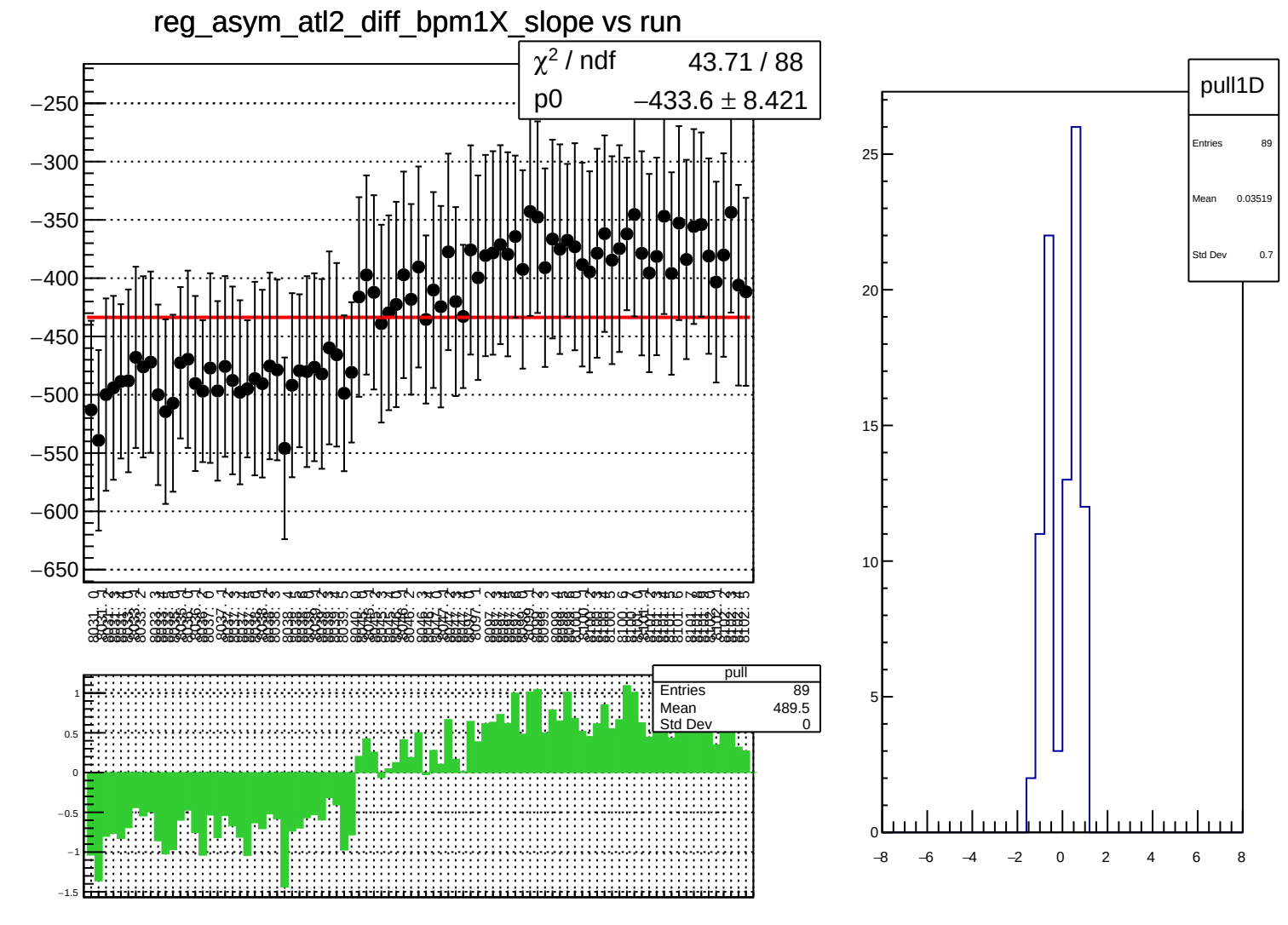

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 110.2 / 88
p0 −10.26 ± 4.004
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean 372.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.02984
Std Dev 1.113
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

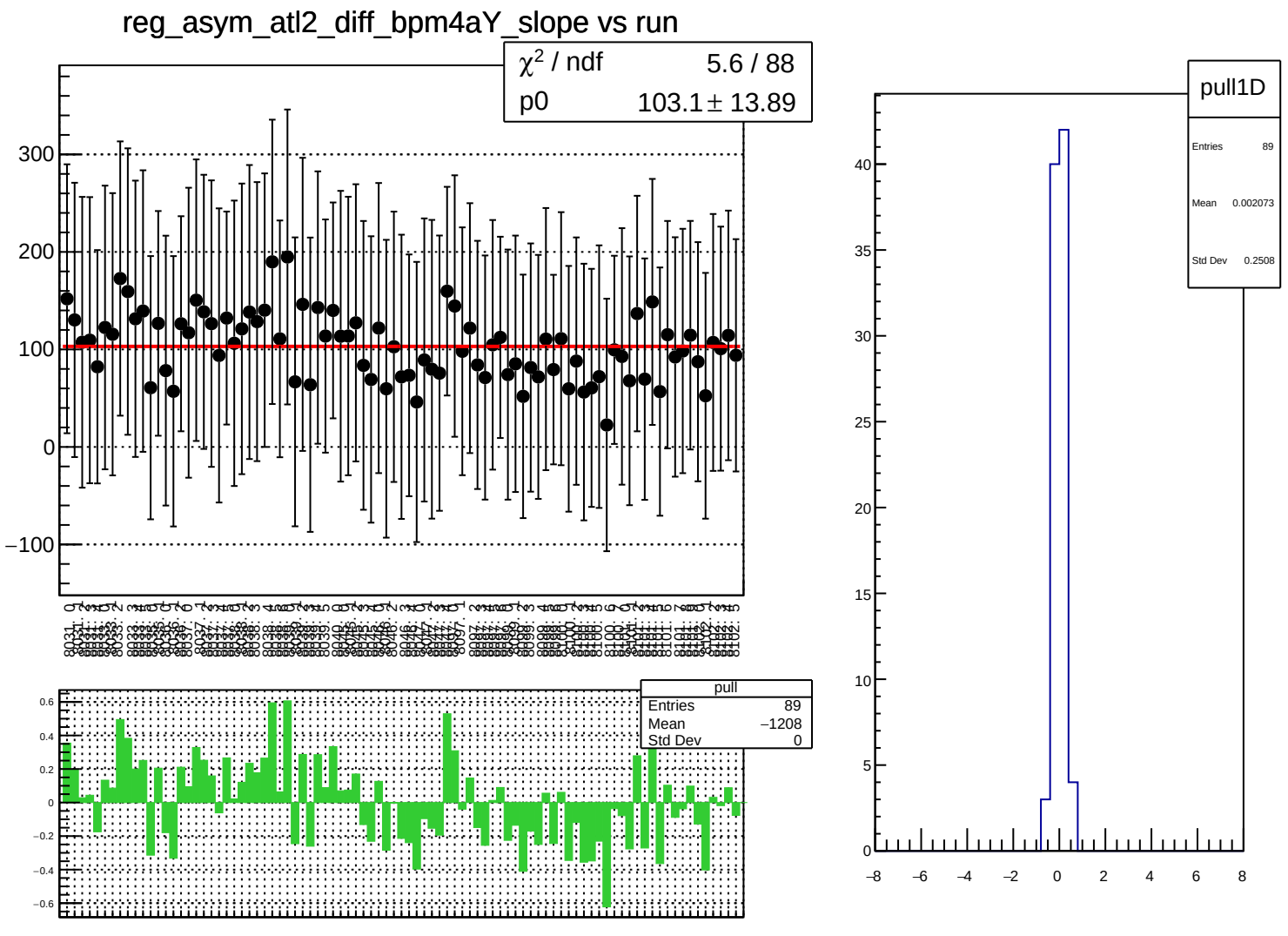

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 294.3 / 88
p0 −4.762 ± 2.549
pull
Entries 89
Mean 379.6
Std Dev 0
pull1D
Entries 89
Mean −0.1076
Std Dev 1.815

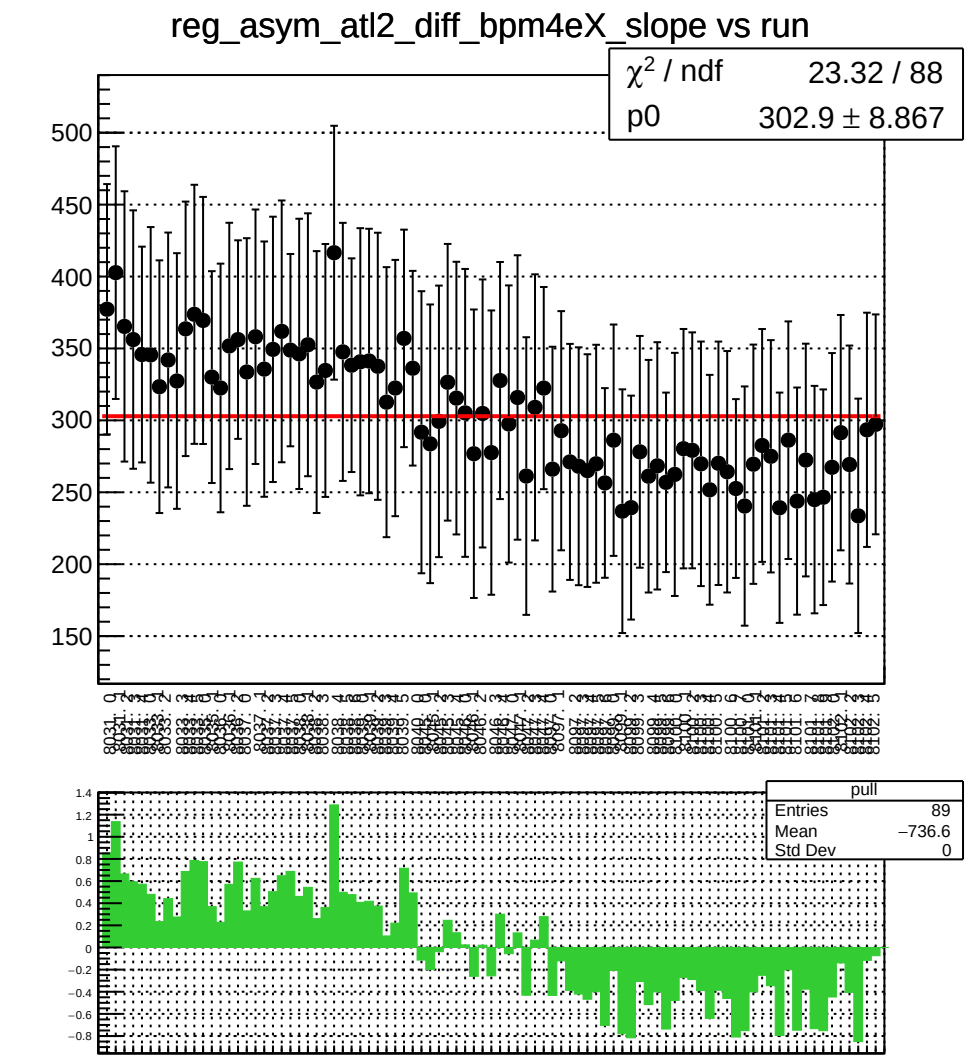

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 100.1 / 88
p0 −5.936 ± 4.252
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean 323.5
Std Dev 0
3
2
1
0
−1
−2

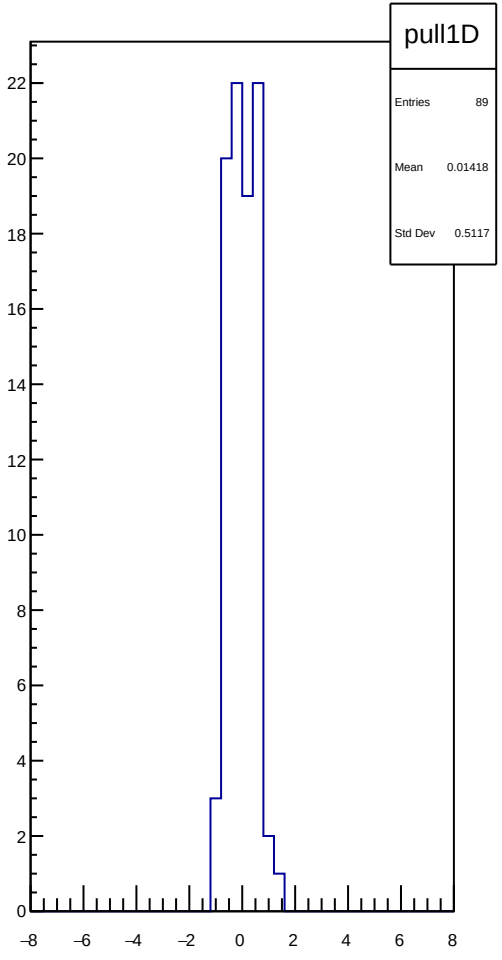

pull1D
Entries 89
Mean 0.02235
Std Dev 1.06
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

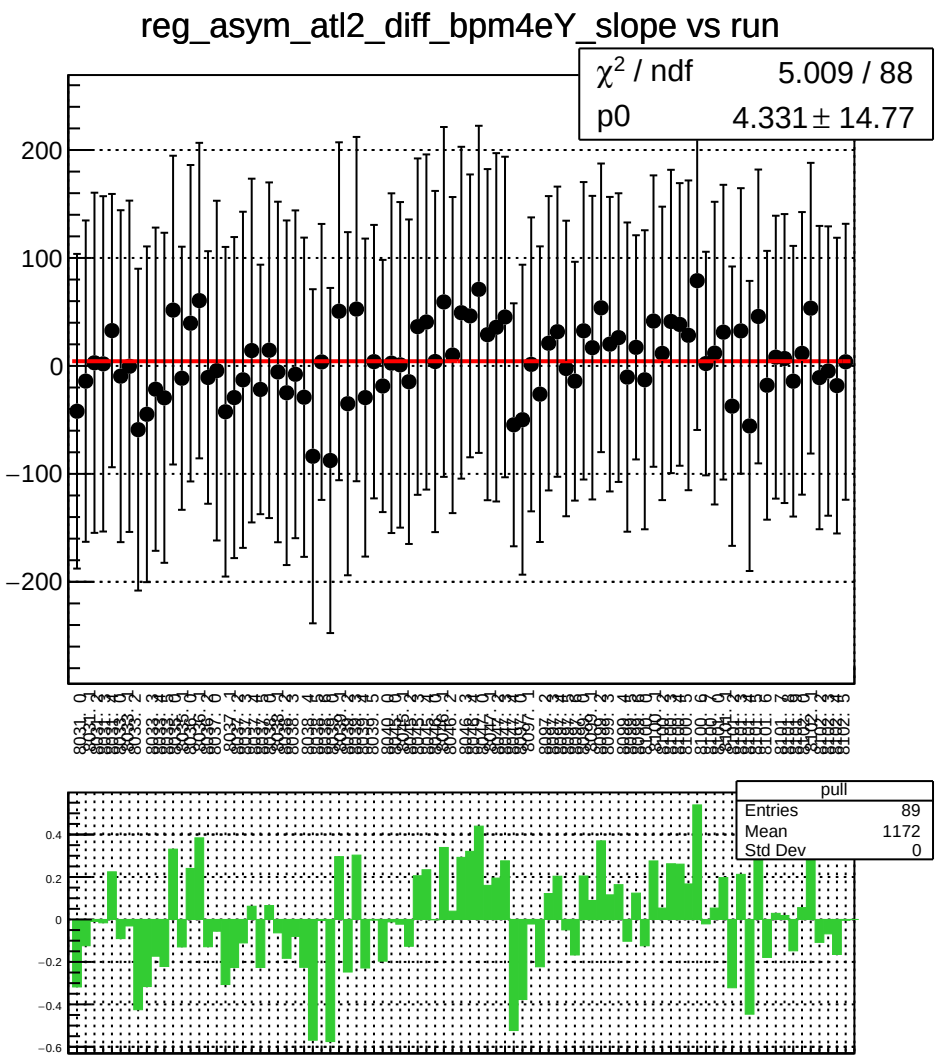

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 9019 / 88
p0 24.17 ± 0.2117
pull
Entries 89
Mean −77.31
Std Dev 0
pull1D
Entries 89
Mean −1.567
Std Dev 7.03

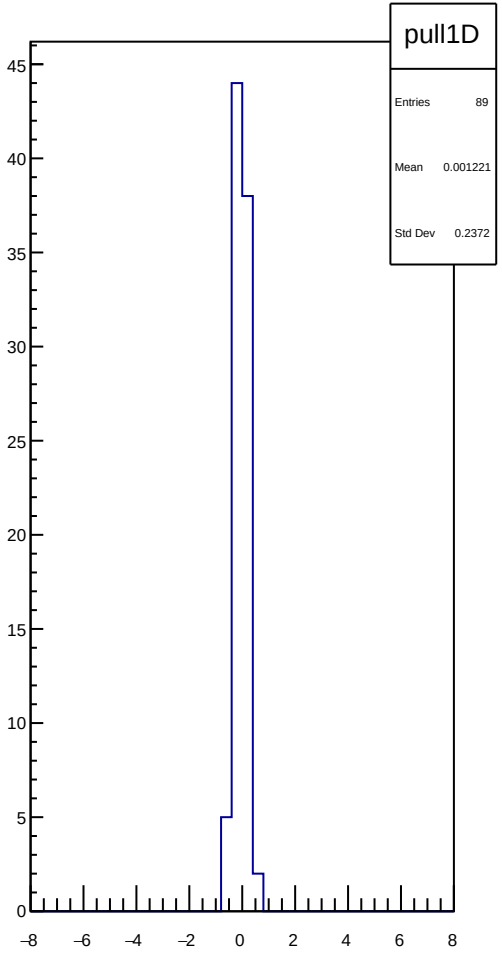

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 43.71 / 88
p0 −433.6 ± 8.421
pull
Entries 89
Mean 489.5
Std Dev 0
pull1D
Entries 89
Mean 0.03519
Std Dev 0.7

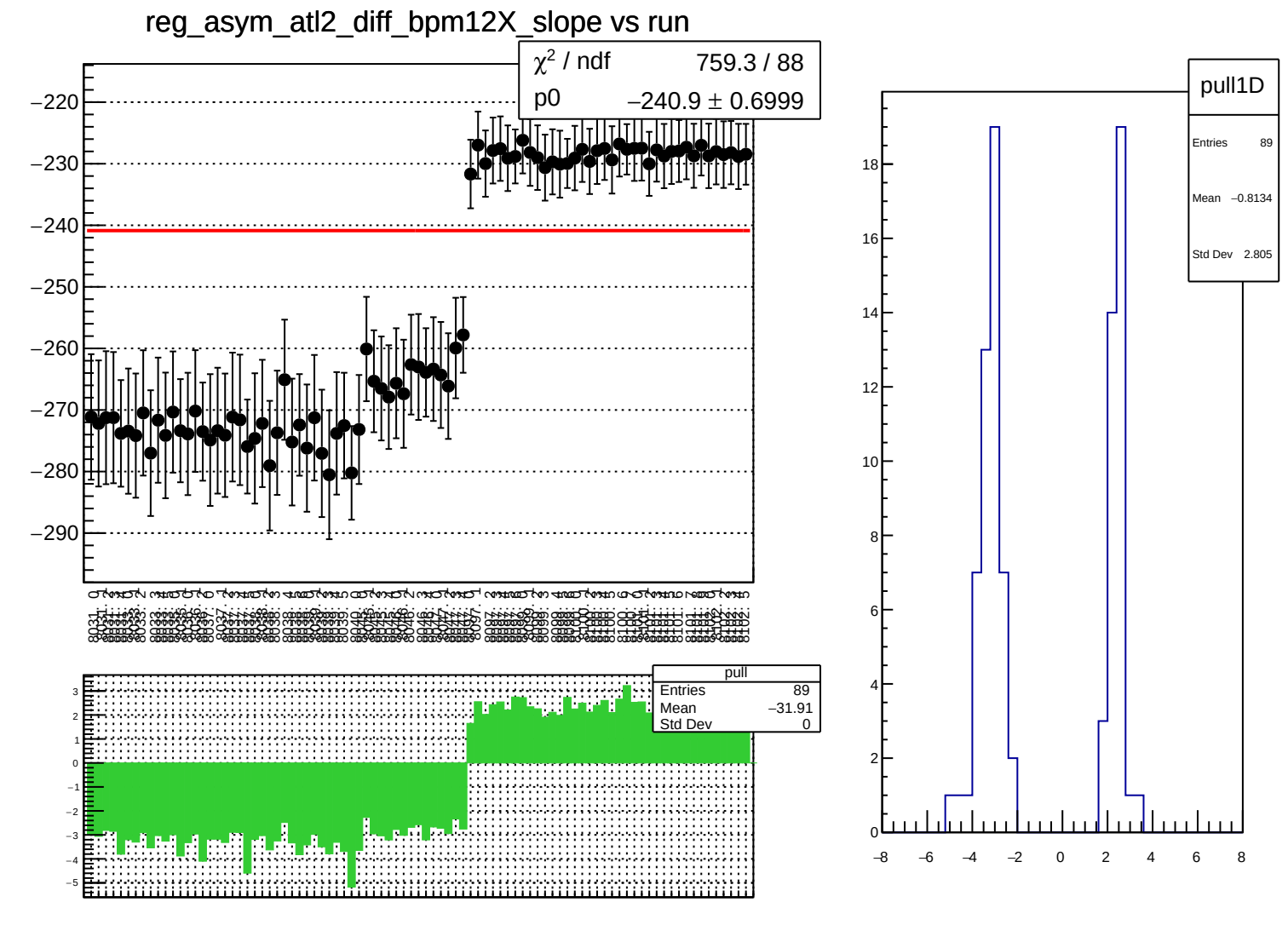

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 5.6 / 88
p0 103.1 ± 13.89
300
200
100
0
−100
pull
Entries 89
Mean −1208
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 89
Mean 0.002073
Std Dev 0.2508
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

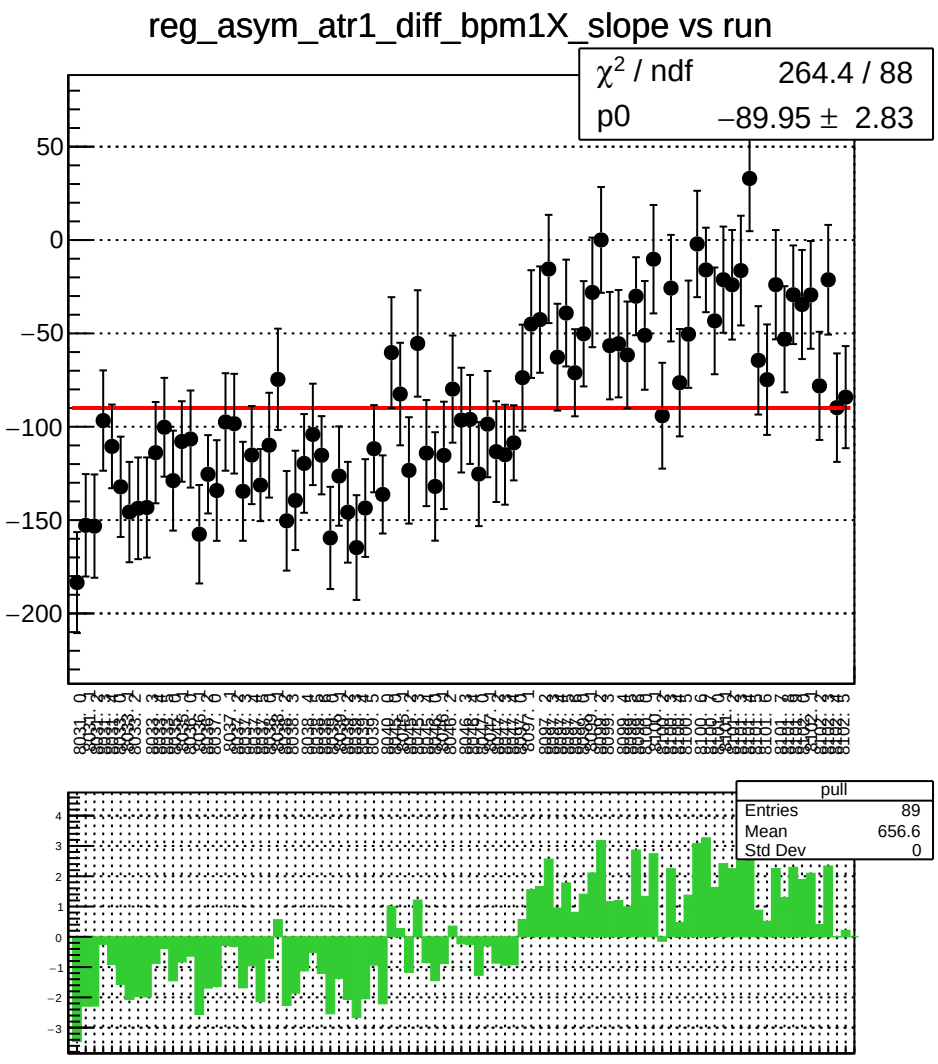

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 23.32 / 88
p0 302.9 ± 8.867
pull
Entries 89
Mean −736.6
Std Dev 0

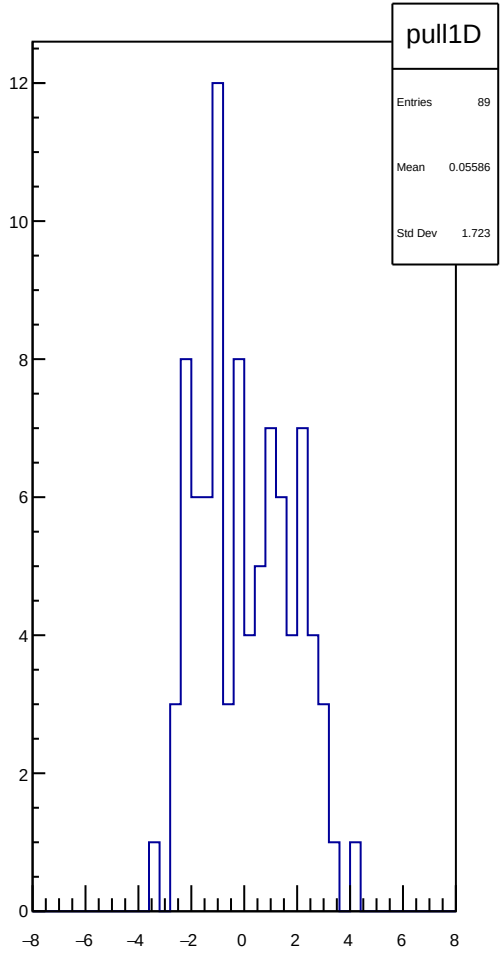

pull1D
Entries 89
Mean 0.01418
Std Dev 0.5117

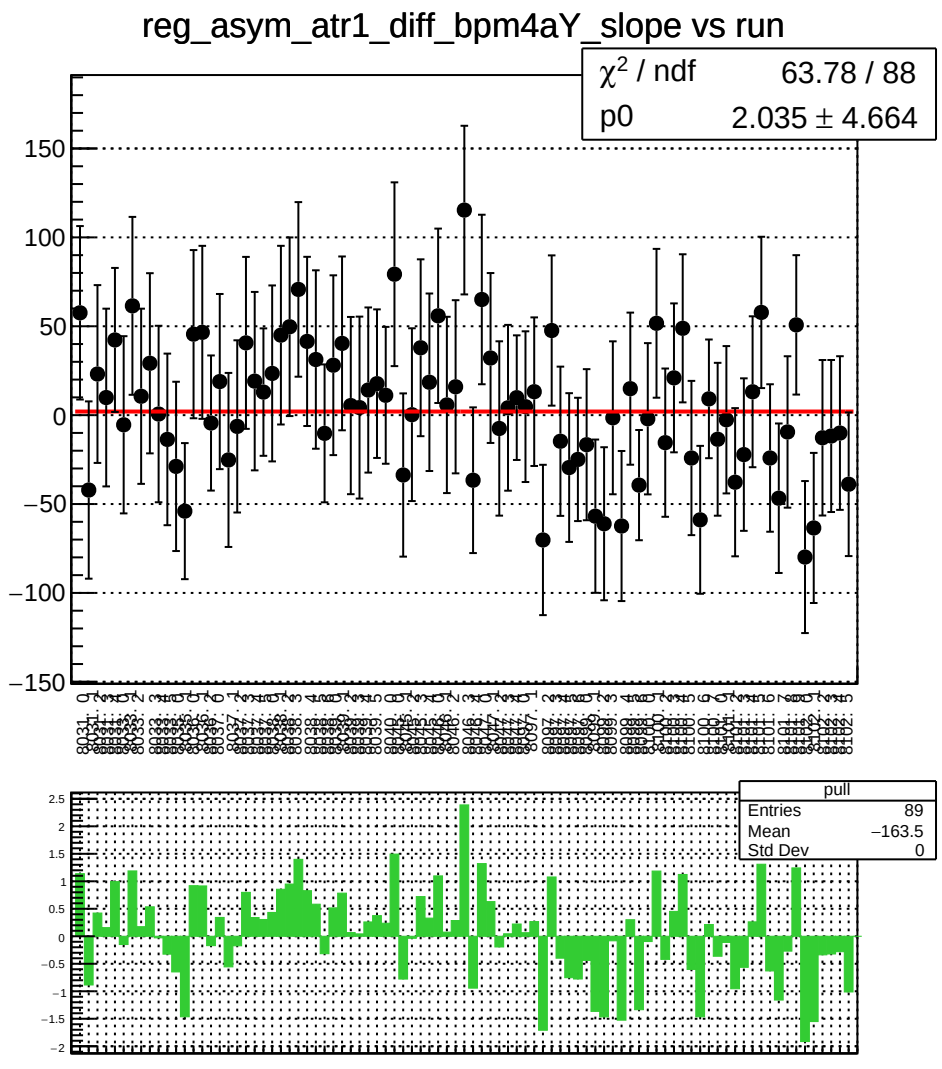

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 5.009 / 88
p0 4.331 ± 14.77
200
100
0
−100
−200
pull
Entries 89
Mean 1172
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6

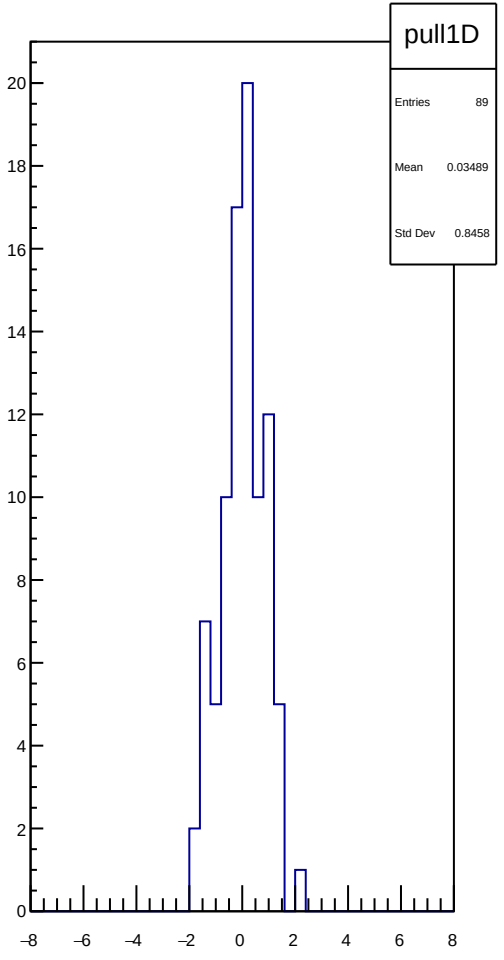

pull1D
Entries 89
Mean 0.001221
Std Dev 0.2372
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

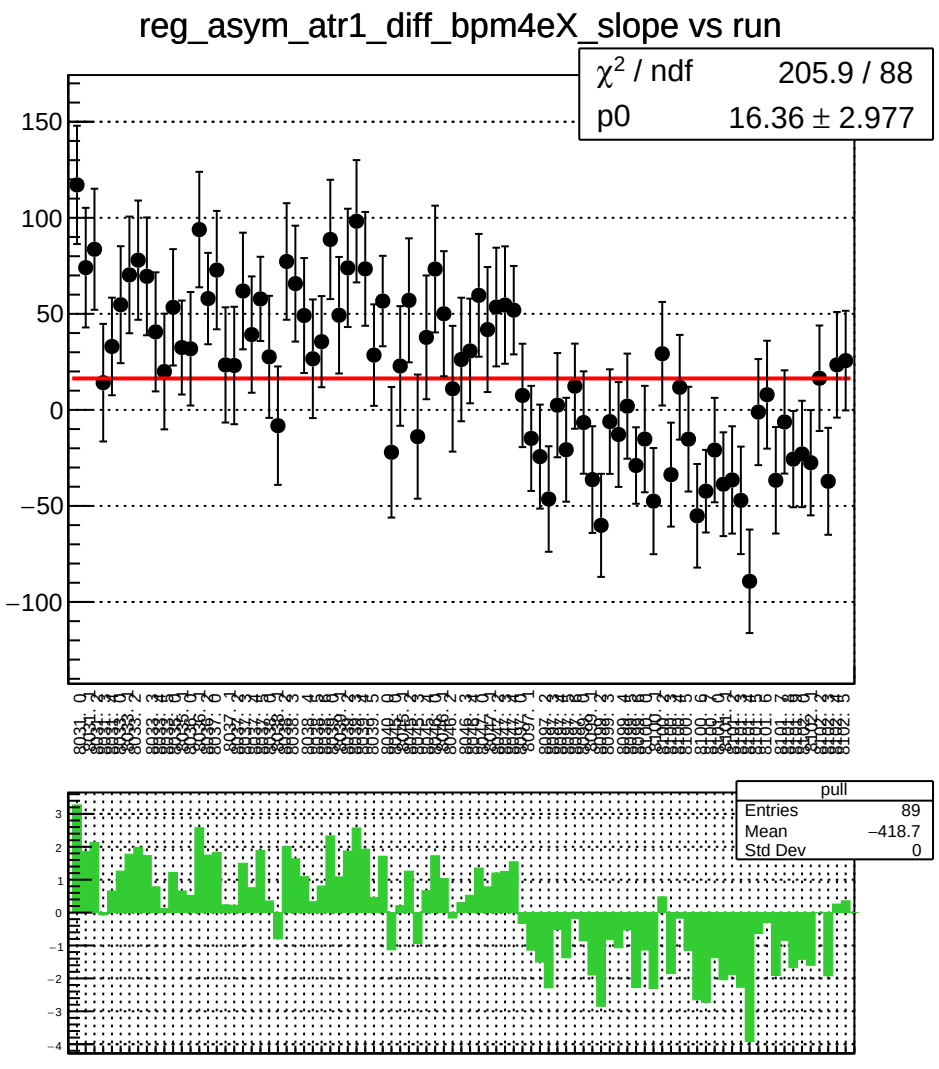

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 759.3 / 88
p0 −240.9 ± 0.6999
−220
−230
−240
−250
−260
−270
−280
−290
pull
Entries 89
Mean −31.91
Std Dev 0
3
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 89
Mean −0.8134
Std Dev 2.805
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

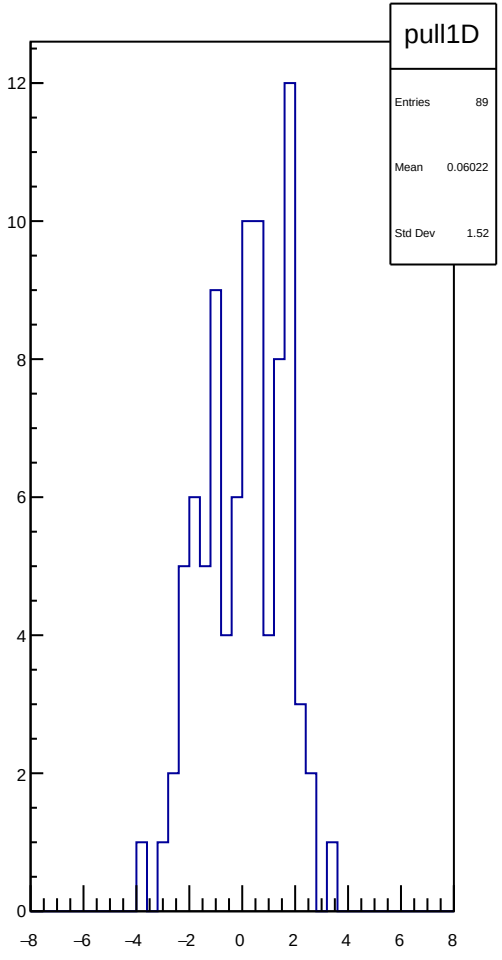

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 264.4 / 88
p0 −89.95 ± 2.83
50
0
−50
−100
−150
−200
pull
Entries 89
Mean 656.6
Std Dev 0
4
3
2
1
0
−1
−2
−3

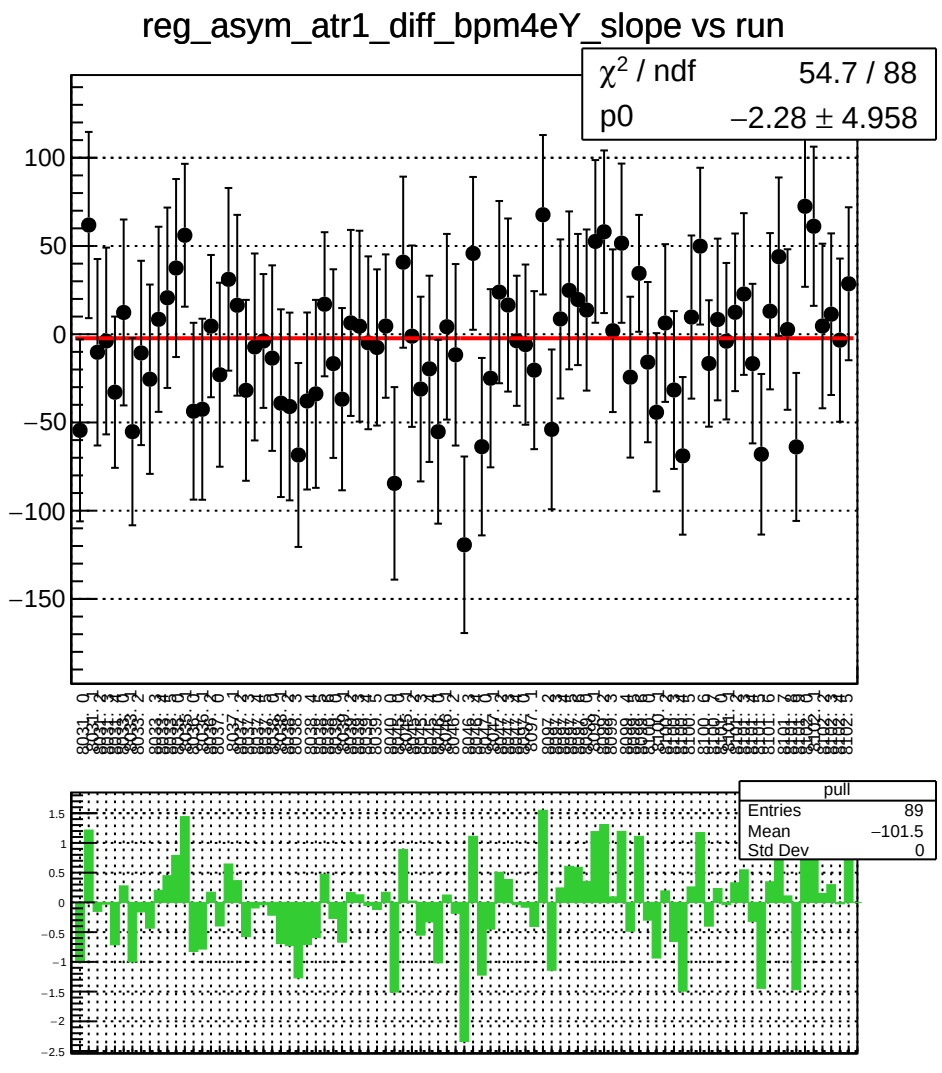

pull1D
Entries 89
Mean 0.05586
Std Dev 1.723
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

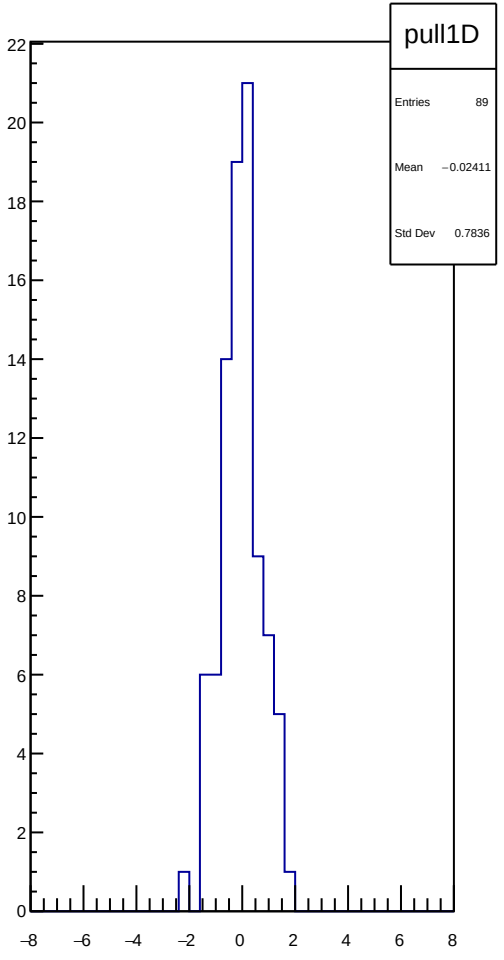

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 63.78 / 88
p0 2.035 ± 4.664
pull
Entries 89
Mean −163.5
Std Dev 0

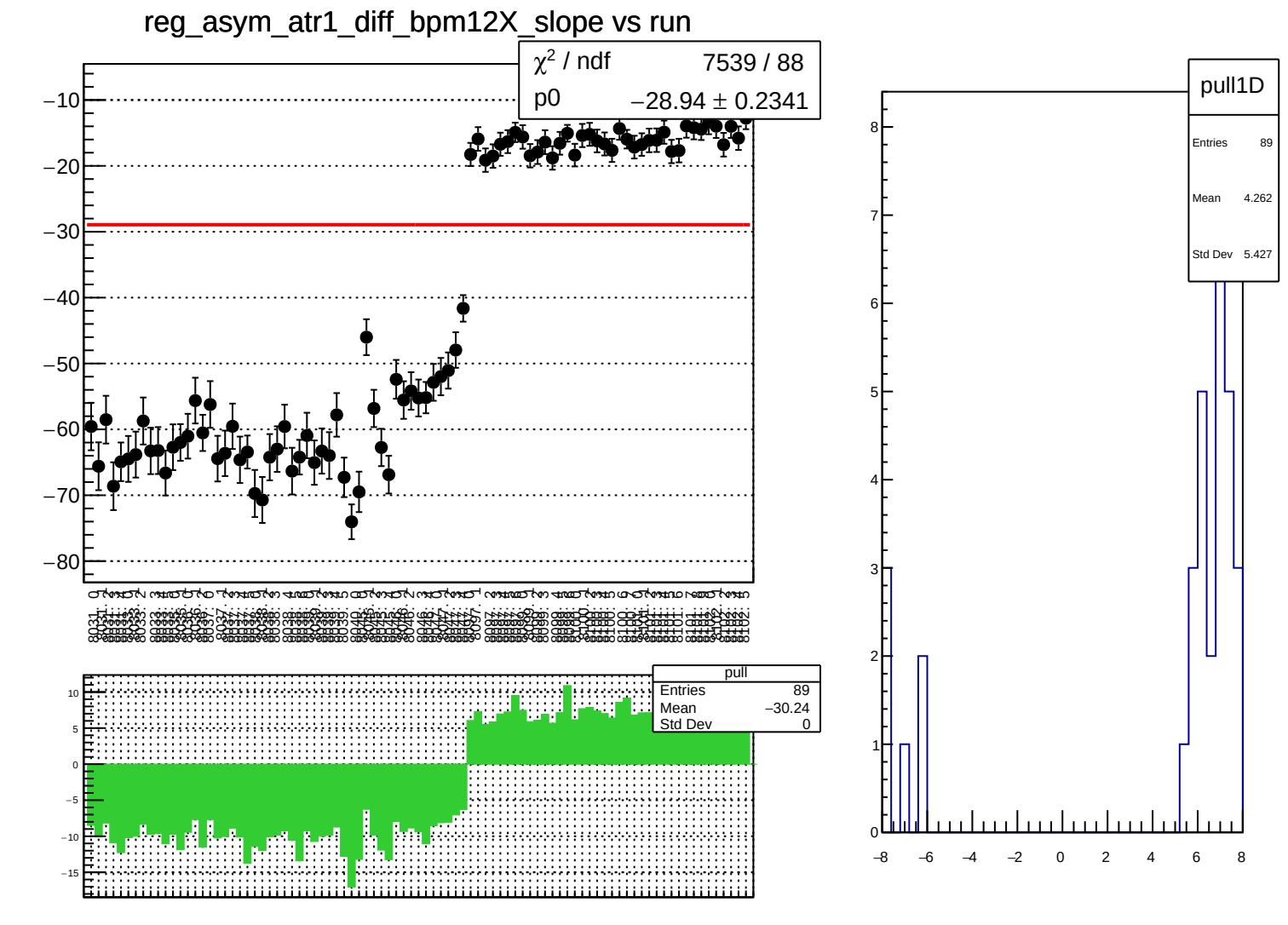

pull1D
Entries 89
Mean 0.03489
Std Dev 0.8458

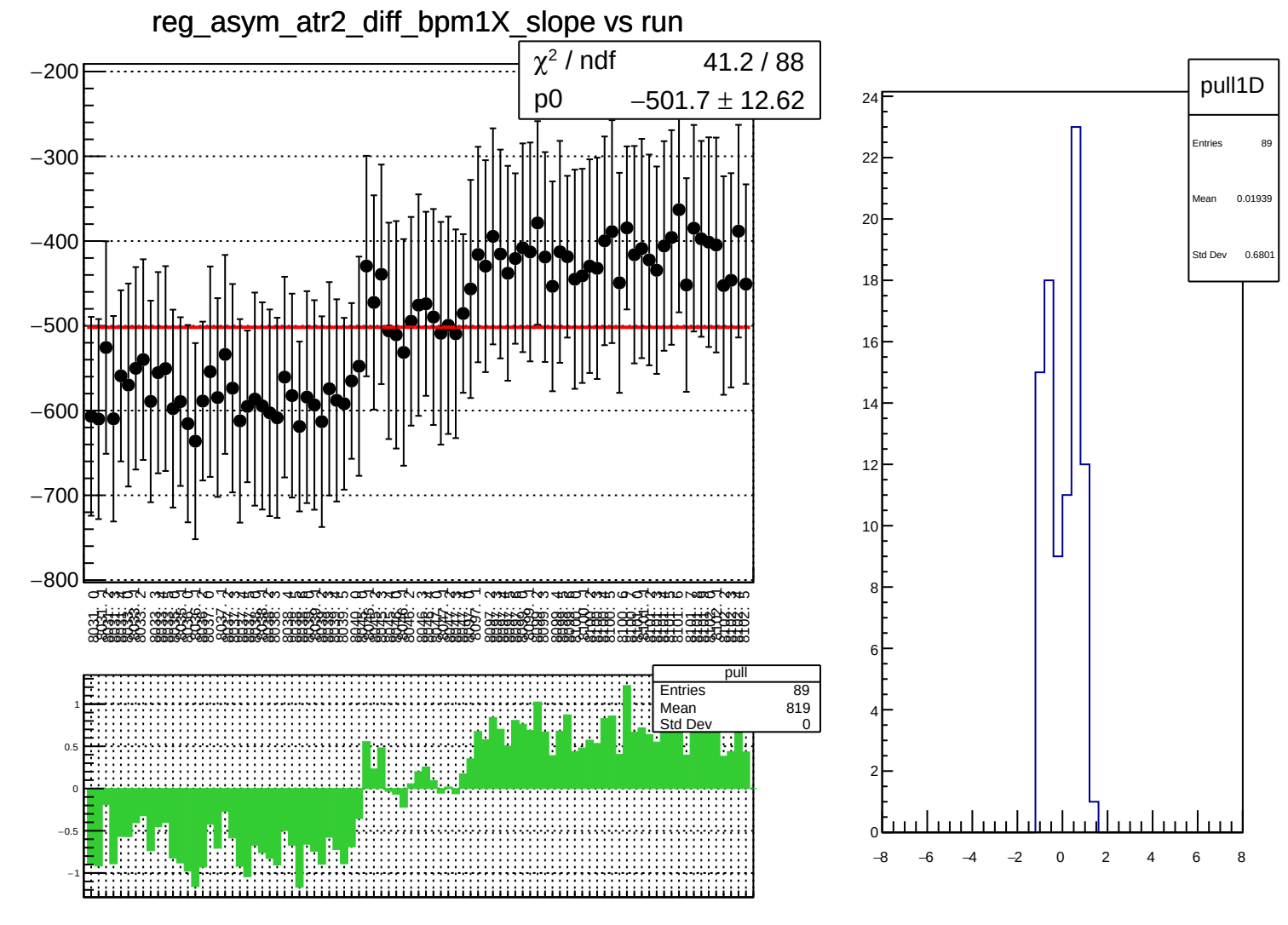

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 205.9 / 88
p0 16.36 ± 2.977
150
100
50
0
−50
−100
pull
Entries 89
Mean −418.7
Std Dev 0
3
2
1
0
−1
−2
−3
−4

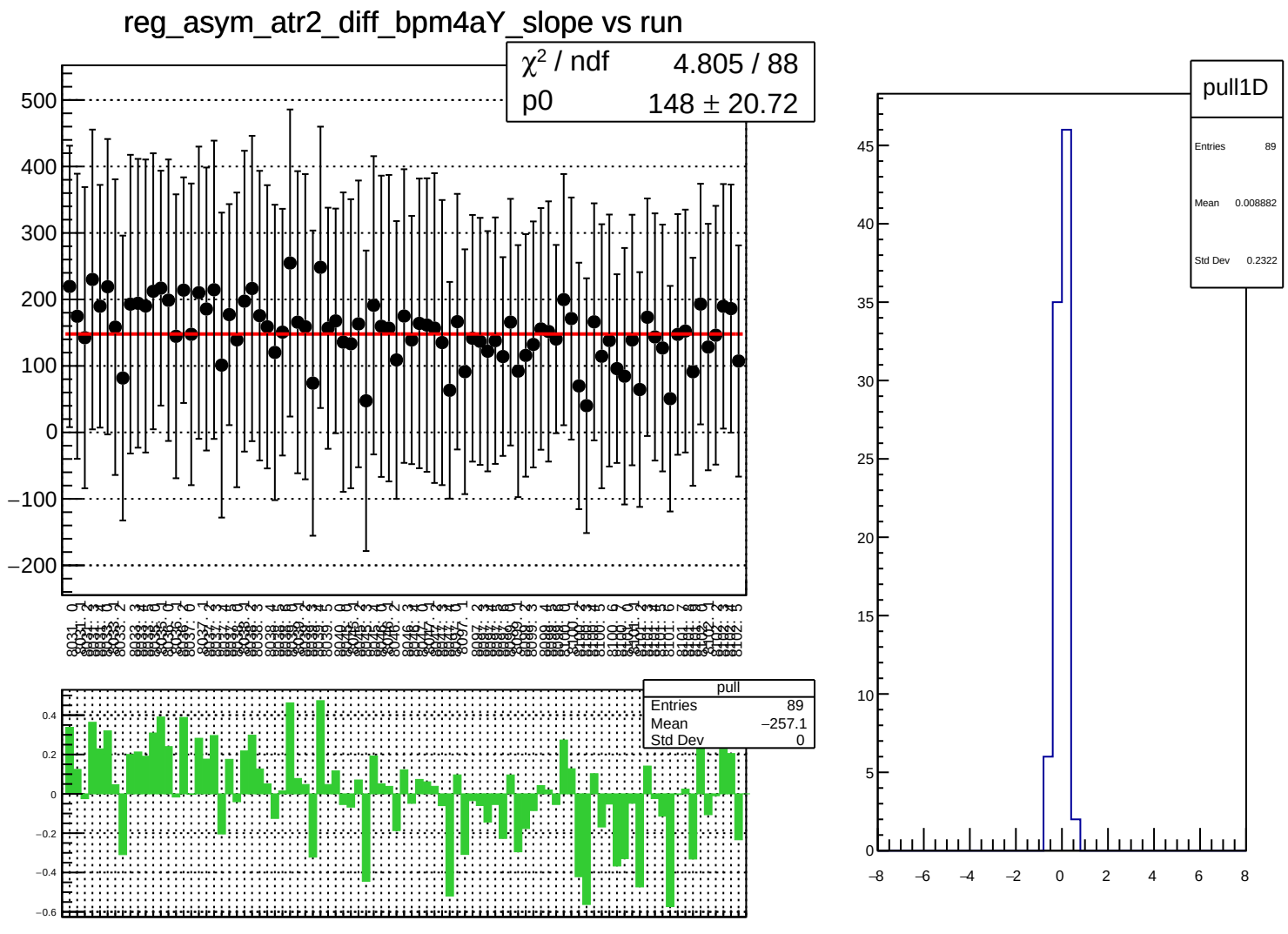

pull1D
Entries 89
Mean 0.06022
Std Dev 1.52
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

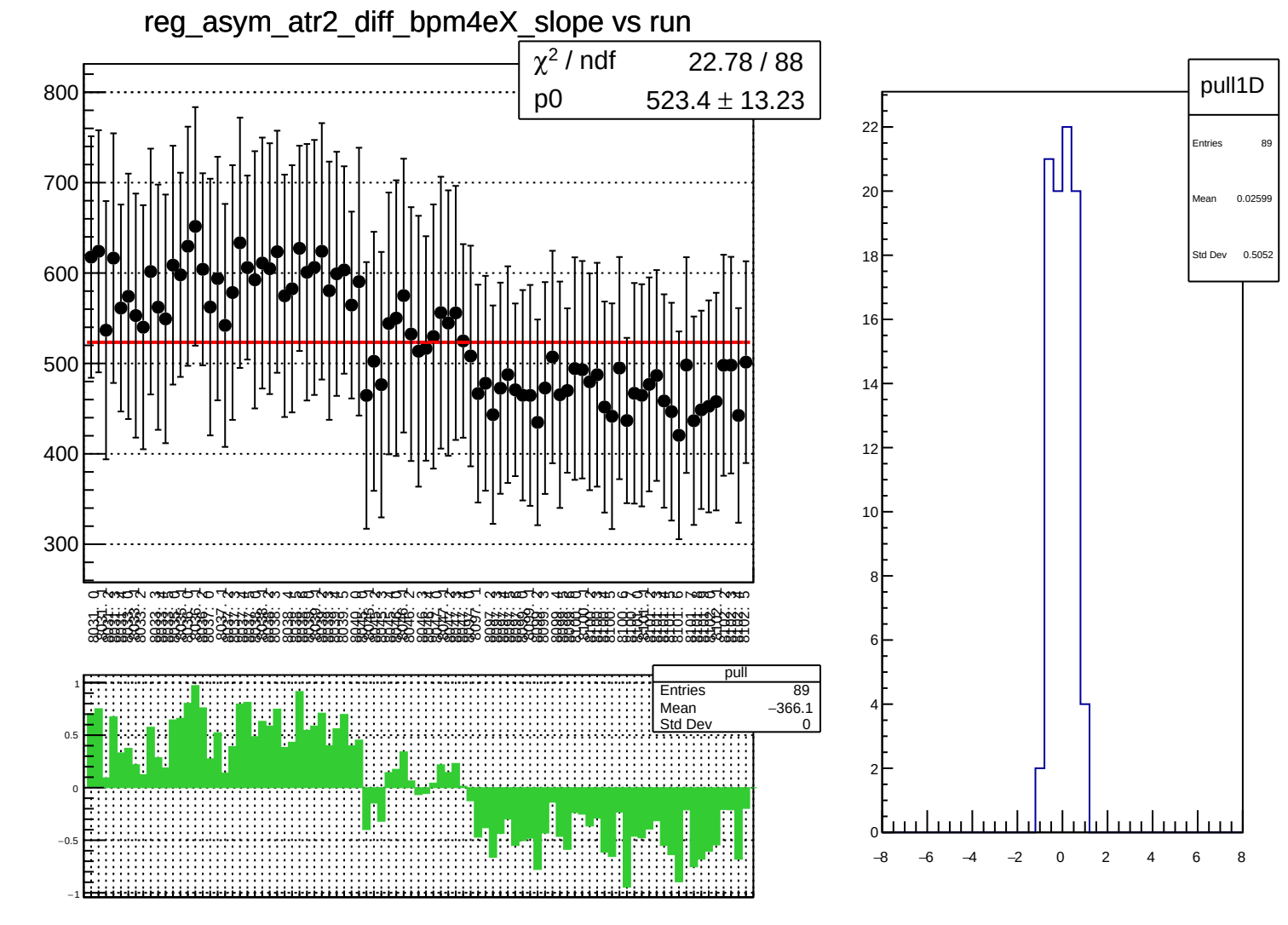

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 54.7 / 88
p0 −2.28 ± 4.958
pull
Entries 89
Mean −101.5
Std Dev 0

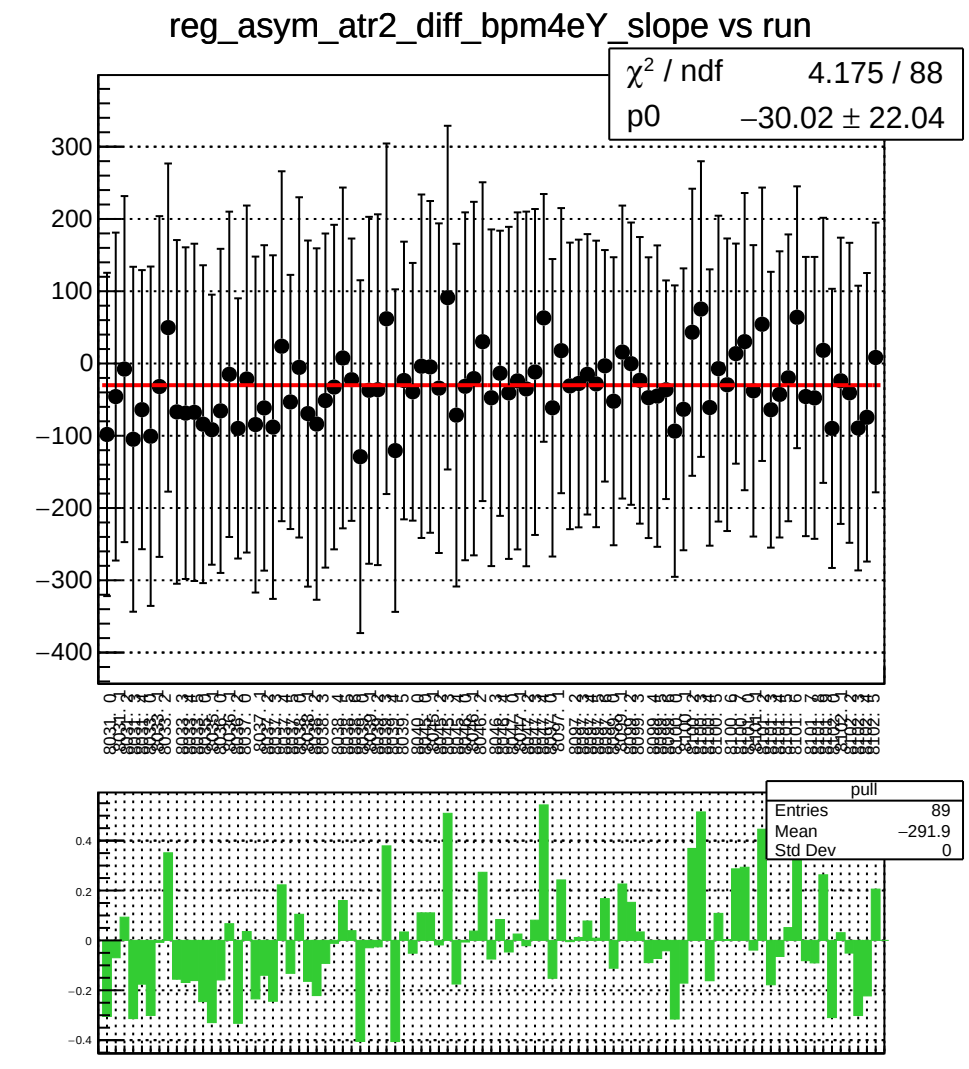

pull1D
Entries 89
Mean −0.02411
Std Dev 0.7836

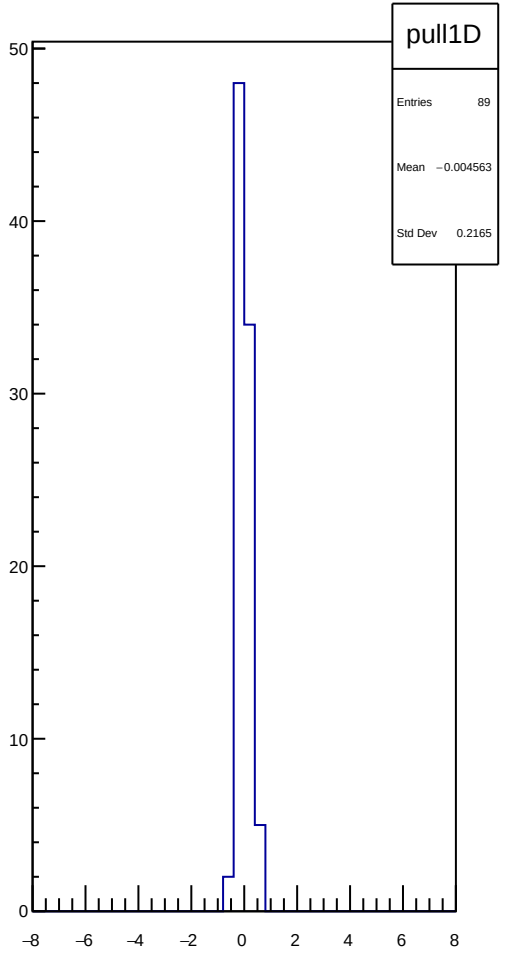

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 7539 / 88
p0 −28.94 ± 0.2341
pull
Entries 89
Mean −30.24
Std Dev 0
pull1D
Entries 89
Mean 4.262
Std Dev 5.427

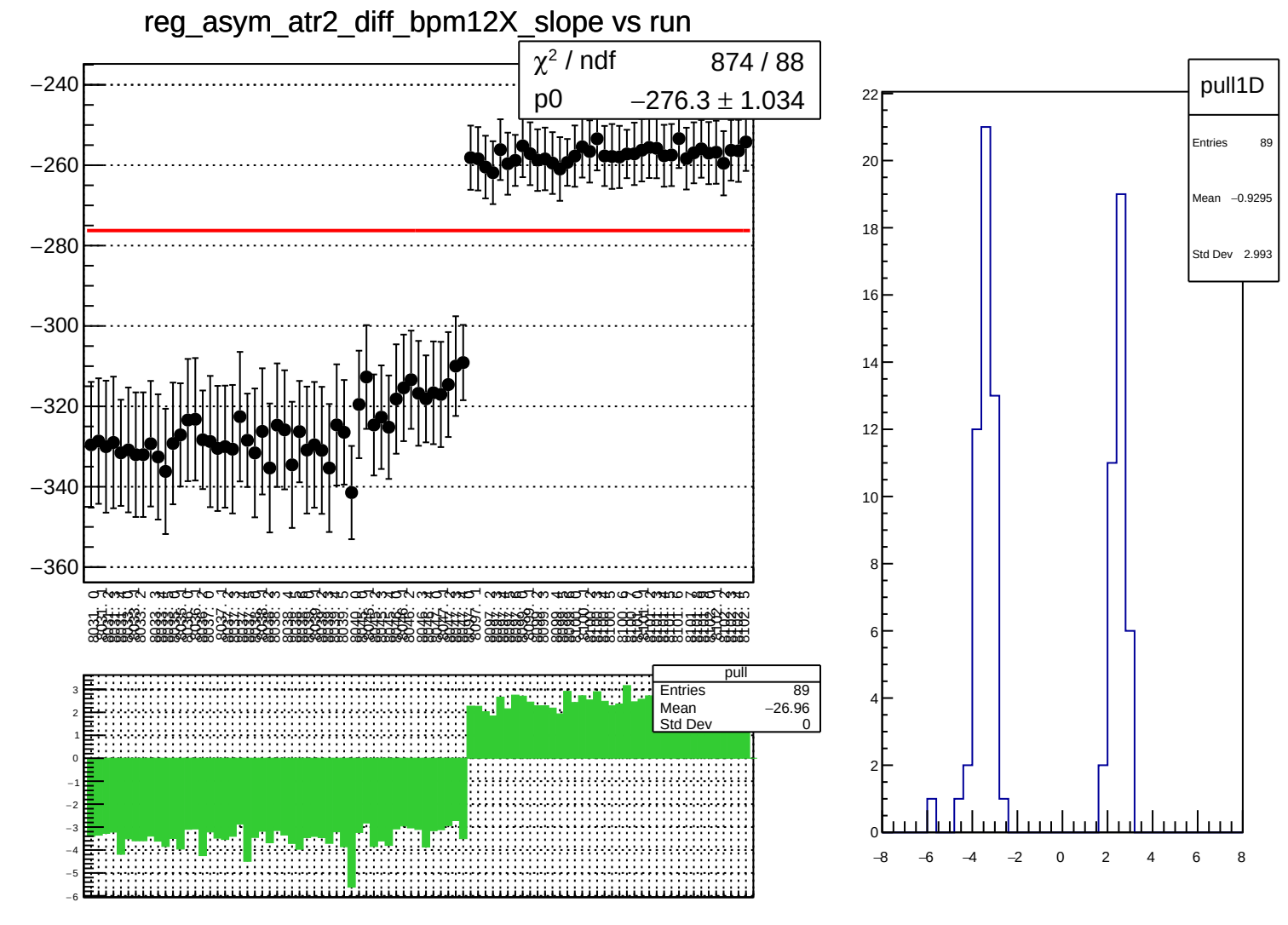

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 41.2 / 88
p0 −501.7 ± 12.62
pull
Entries 89
Mean 819
Std Dev 0
pull1D
Entries 89
Mean 0.01939
Std Dev 0.6801

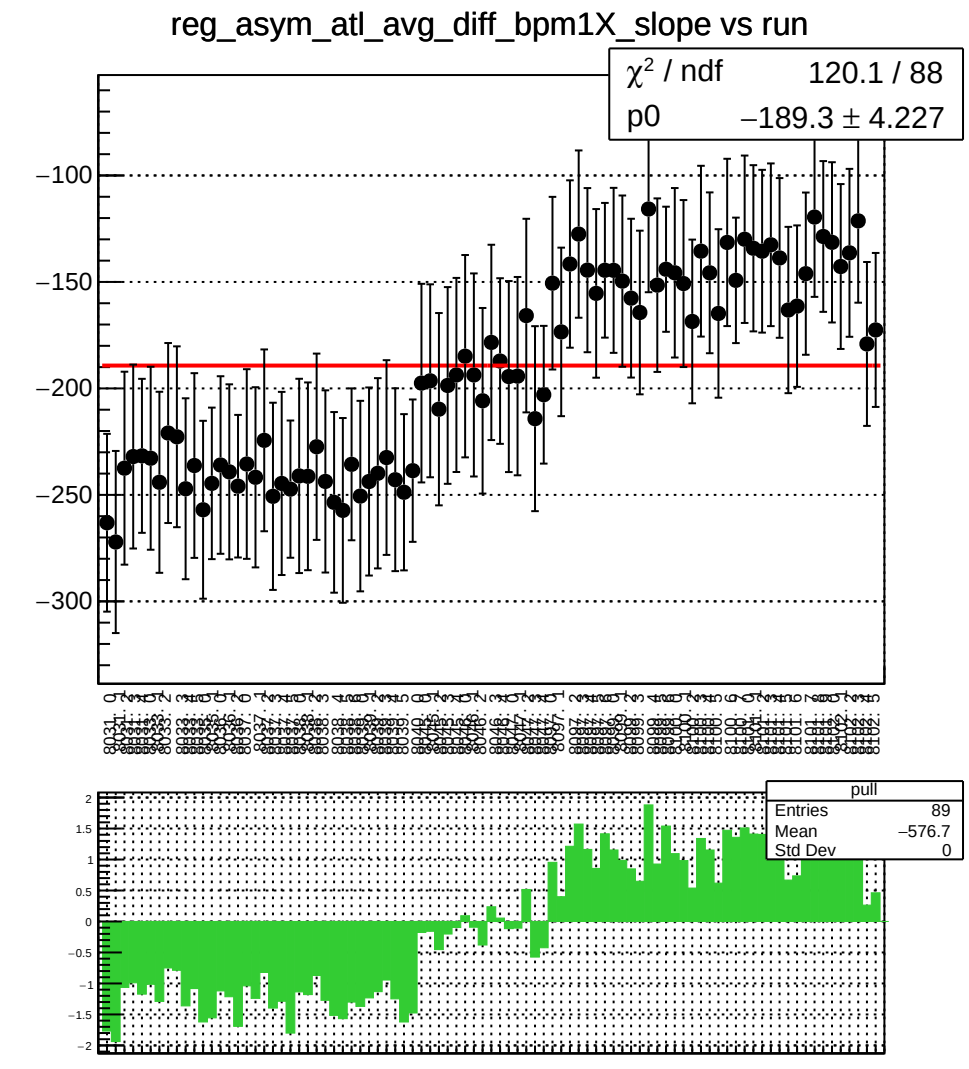

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 4.805 / 88
p0 148 ± 20.72
pull
Entries 89
Mean −257.1
Std Dev 0
pull1D
Entries 89
Mean 0.008882
Std Dev 0.2322

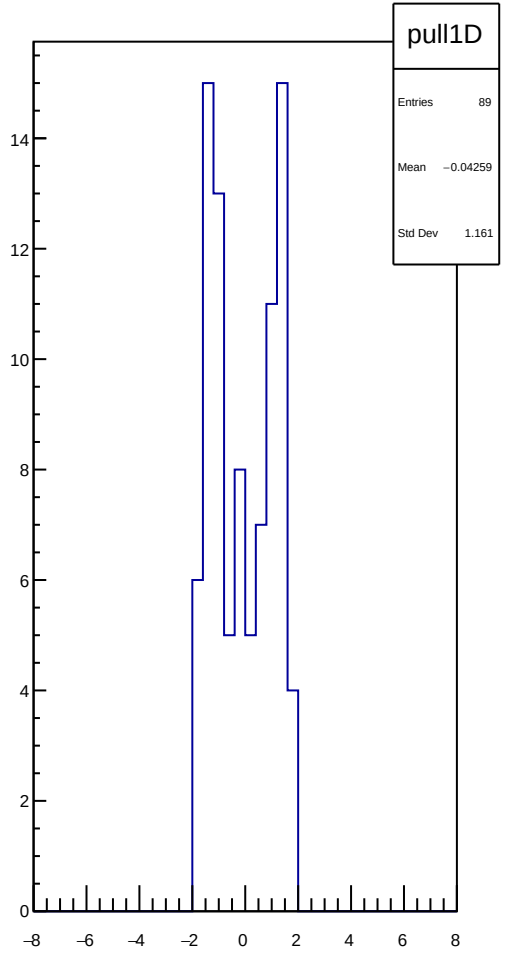

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 22.78 / 88
p0 523.4 ± 13.23
800
700
600
500
400
300
pull
Entries 89
Mean −366.1
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean 0.02599
Std Dev 0.5052
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

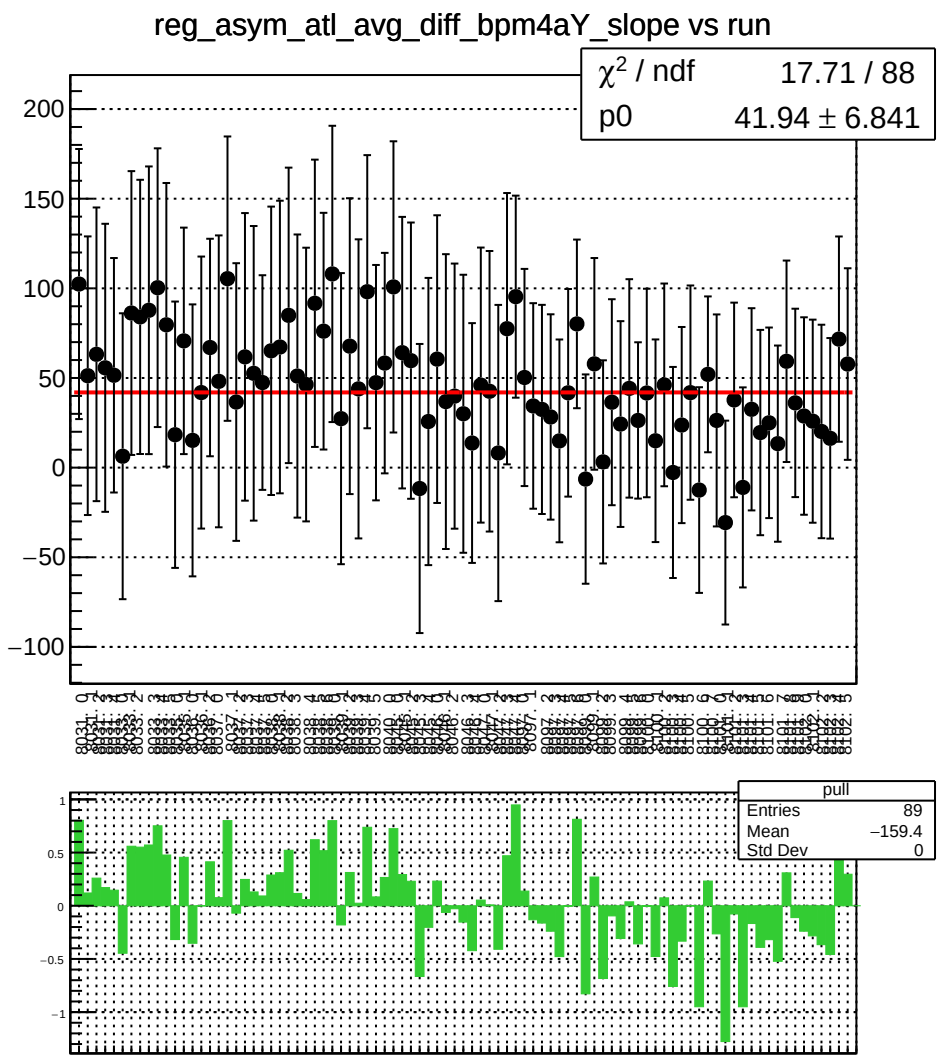

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 4.175 / 88
p0 −30.02 ± 22.04
300
200
100
0
−100
−200
−300
−400
pull
Entries 89
Mean −291.9
Std Dev 0
0.4
0.2
0
−0.2
−0.4

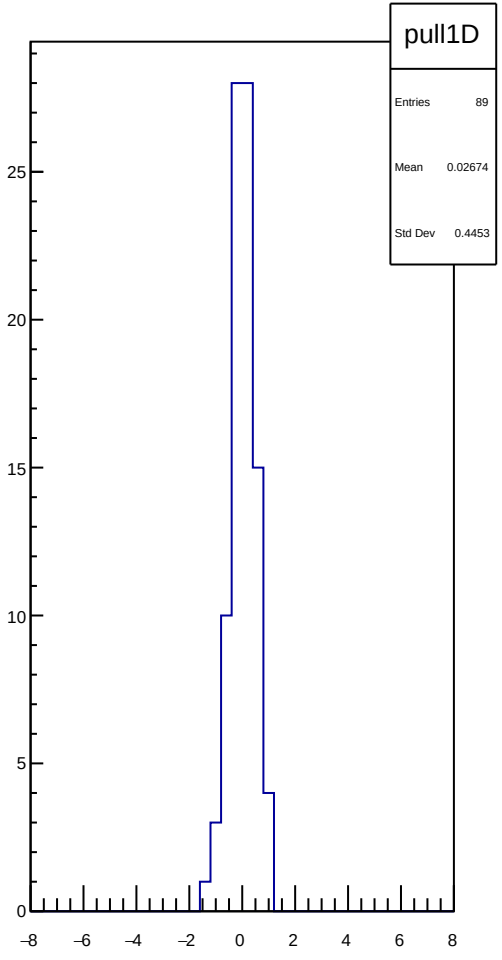

pull1D
Entries 89
Mean −0.004563
Std Dev 0.2165
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

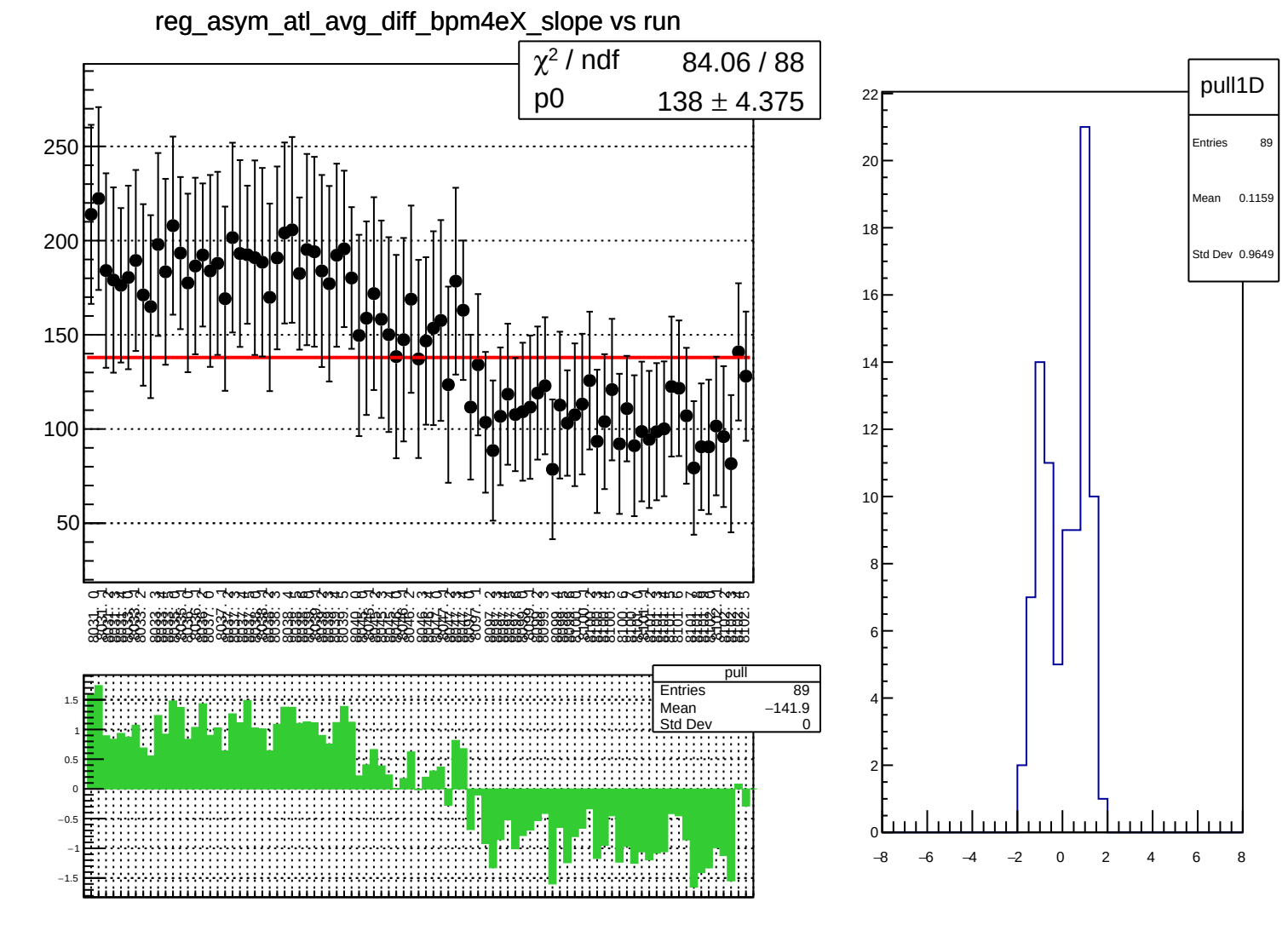

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 874 / 88
p0 −276.3 ± 1.034
pull
Entries 89
Mean −26.96
Std Dev 0
pull1D
Entries 89
Mean −0.9295
Std Dev 2.993

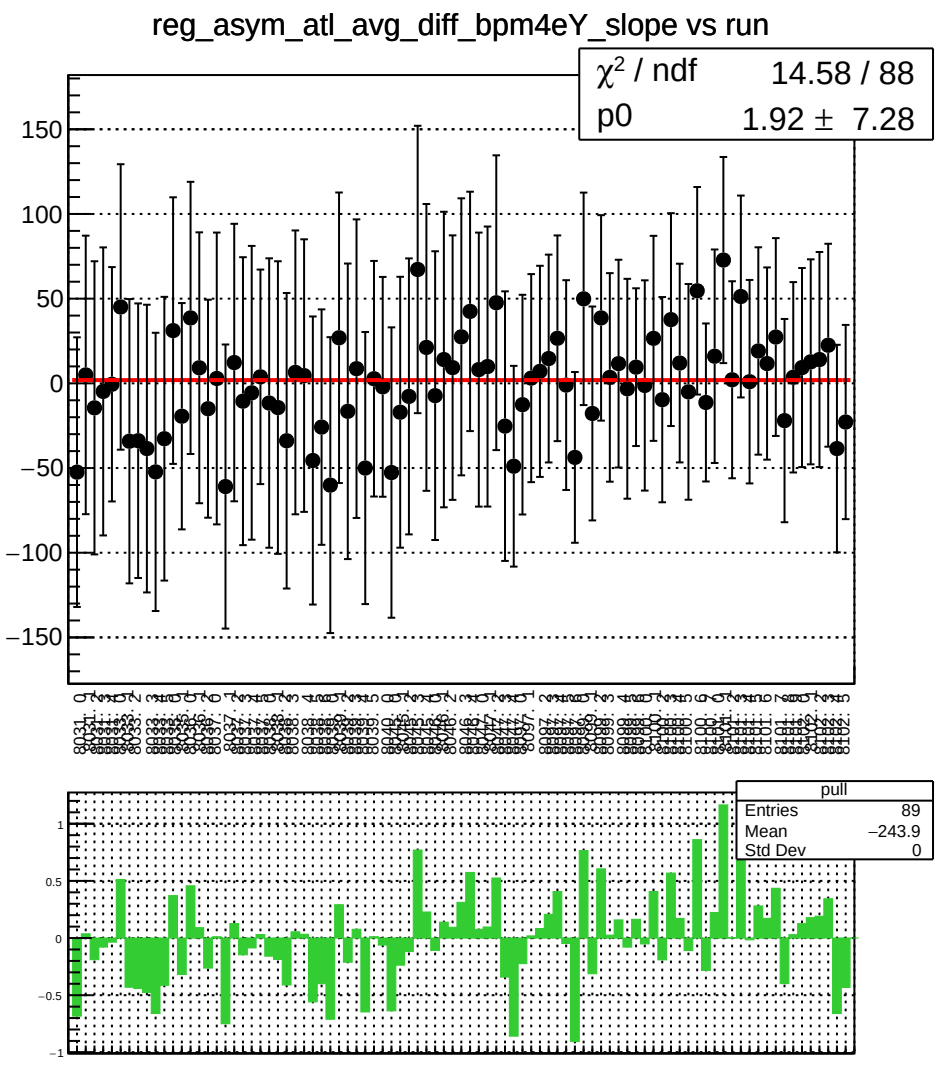

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 120.1 / 88
p0 −189.3 ± 4.227
−100
−150
−200
−250
−300
pull
Entries 89
Mean −576.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

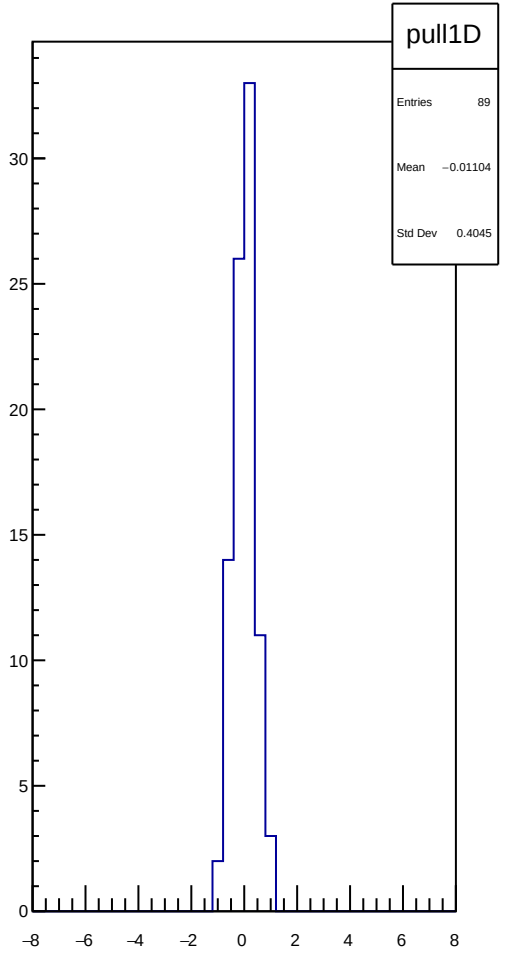

pull1D
Entries 89
Mean −0.04259
Std Dev 1.161
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

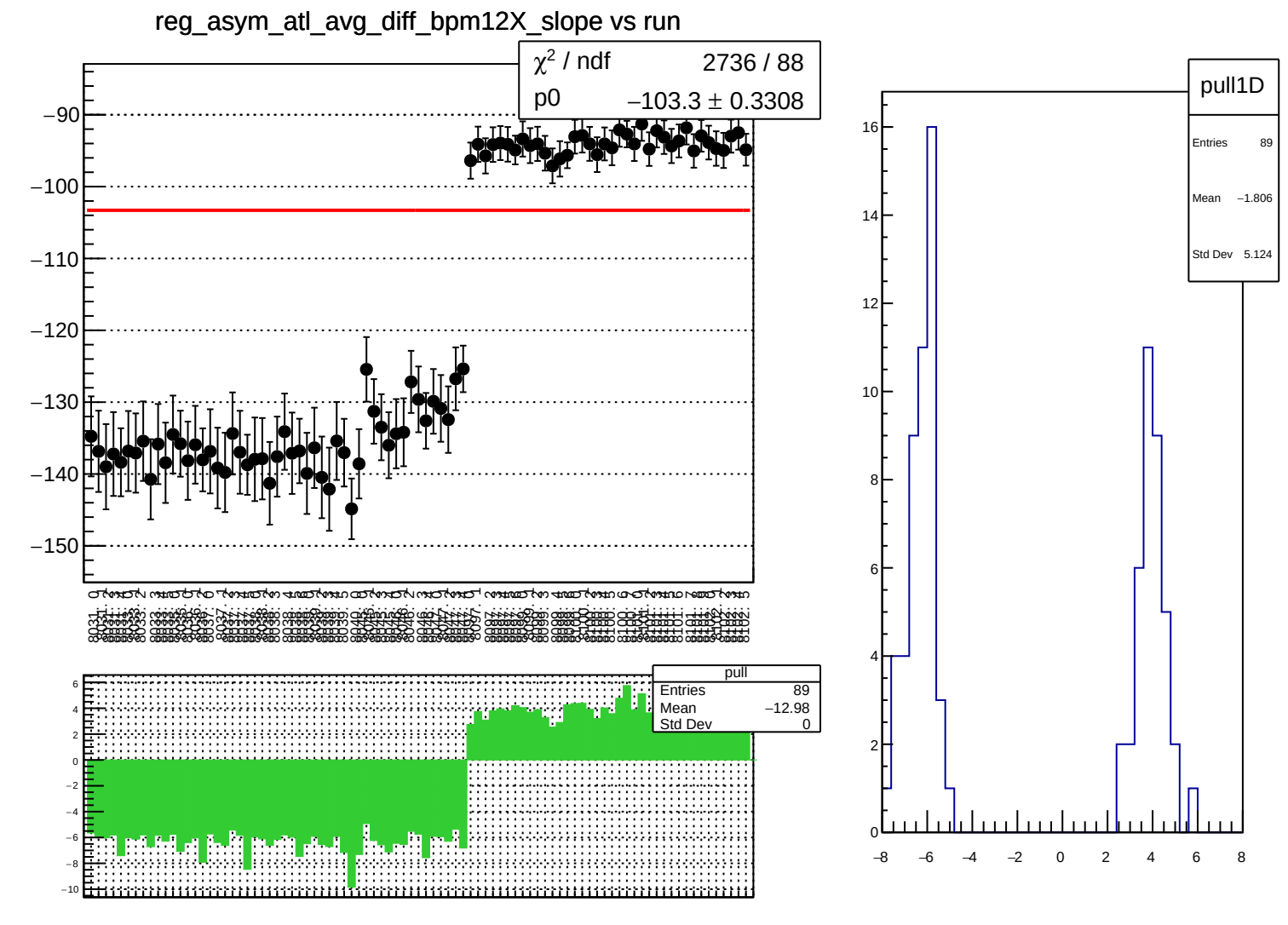

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 17.71 / 88
p0 41.94 ± 6.841
200
150
100
50
0
−50
−100
pull
Entries 89
Mean −159.4
Std Dev 0
1
0.5
0
−0.5
−1

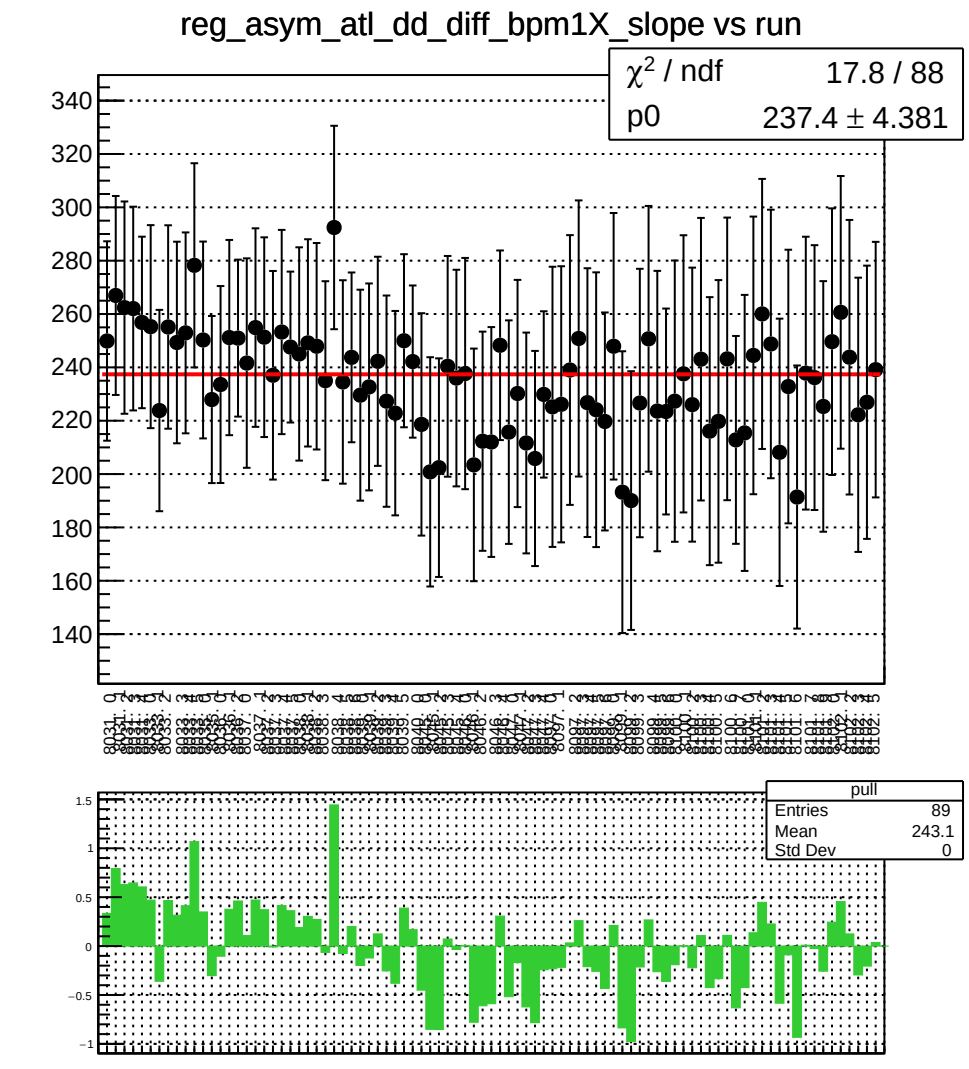

pull1D
Entries 89
Mean 0.02674
Std Dev 0.4453
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

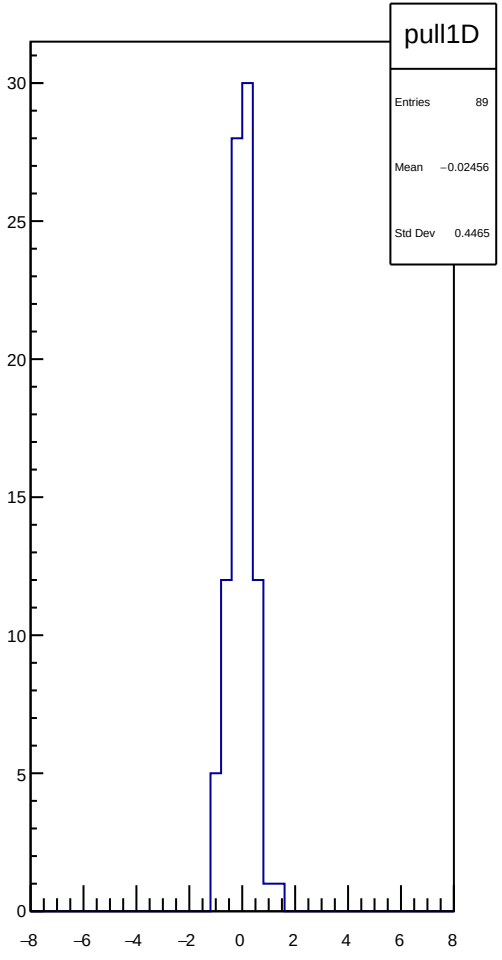

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 84.06 / 88
p0 138 ± 4.375
250
200
150
100
50
pull
Entries 89
Mean −141.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 89
Mean 0.1159
Std Dev 0.9649
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

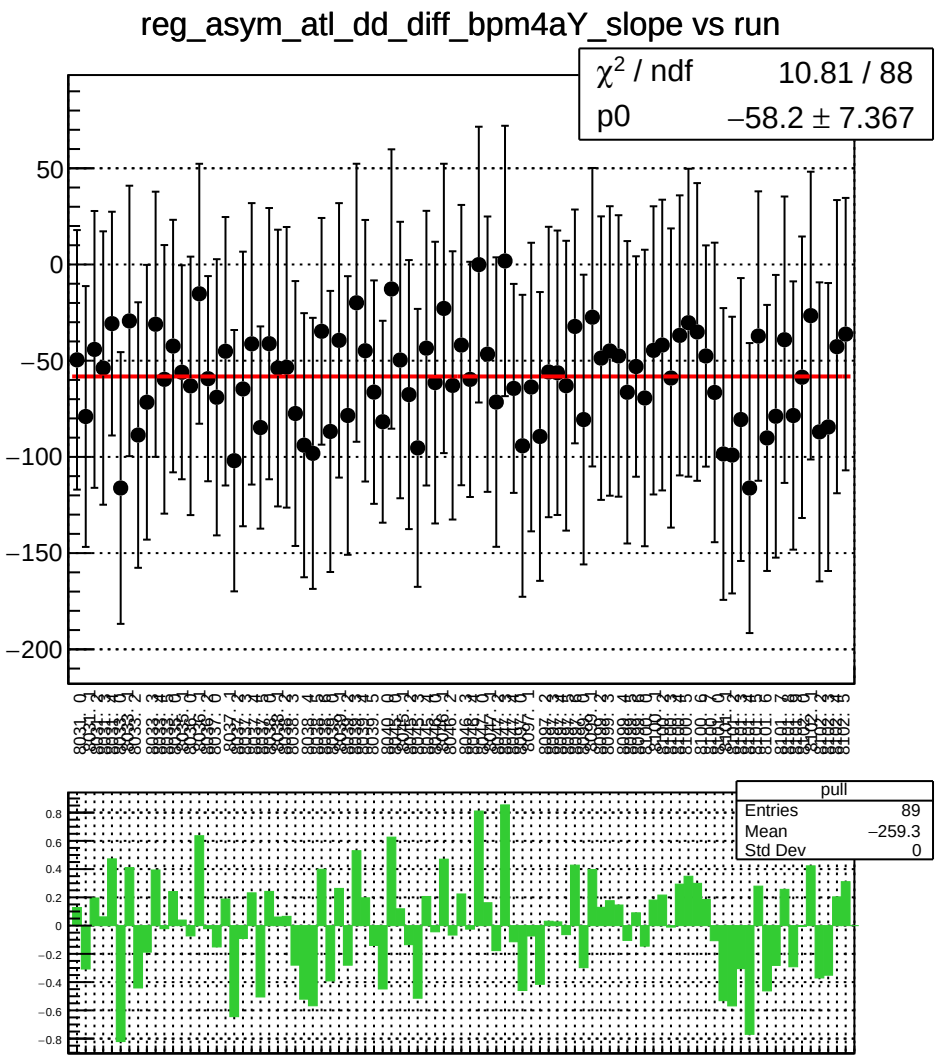

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.58 / 88
p0 1.92 ± 7.28
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −243.9
Std Dev 0
1
0.5
0
−0.5
−1

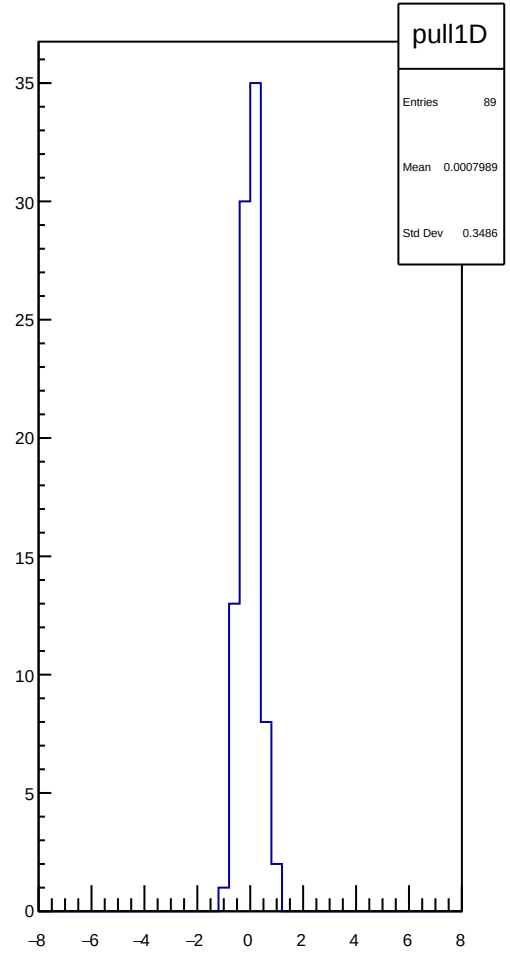

pull1D
Entries 89
Mean −0.01104
Std Dev 0.4045
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

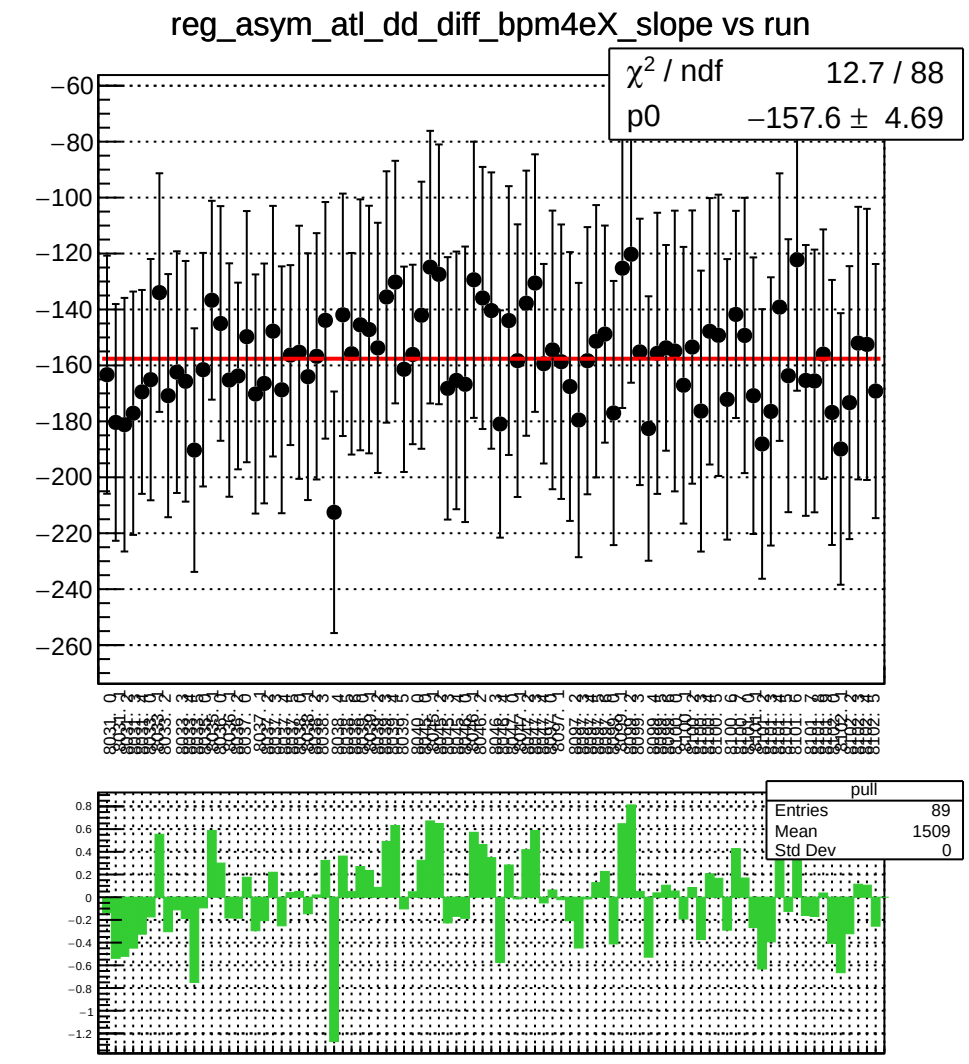

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 2736 / 88
p0 −103.3 ± 0.3308
pull
Entries 89
Mean −12.98
Std Dev 0
pull1D
Entries 89
Mean −1.806
Std Dev 5.124

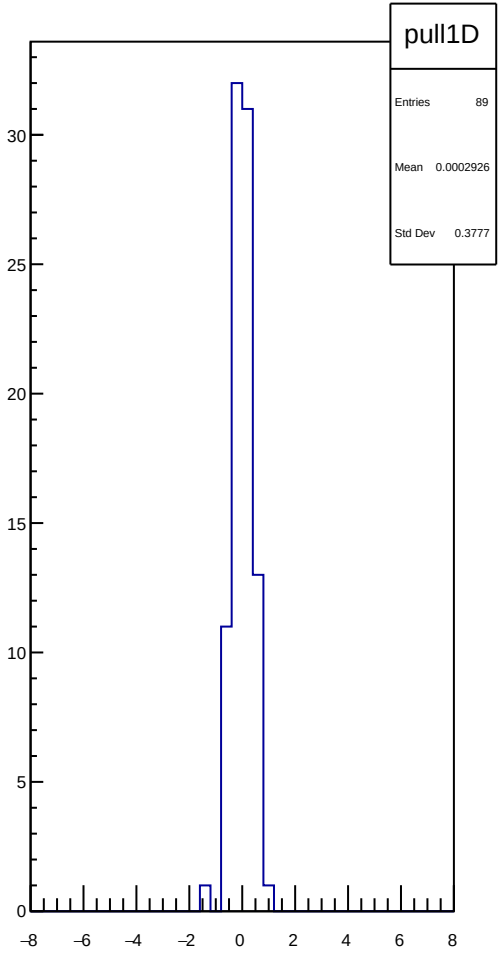

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 17.8 / 88
p0 237.4 ± 4.381
pull
Entries 89
Mean 243.1
Std Dev 0

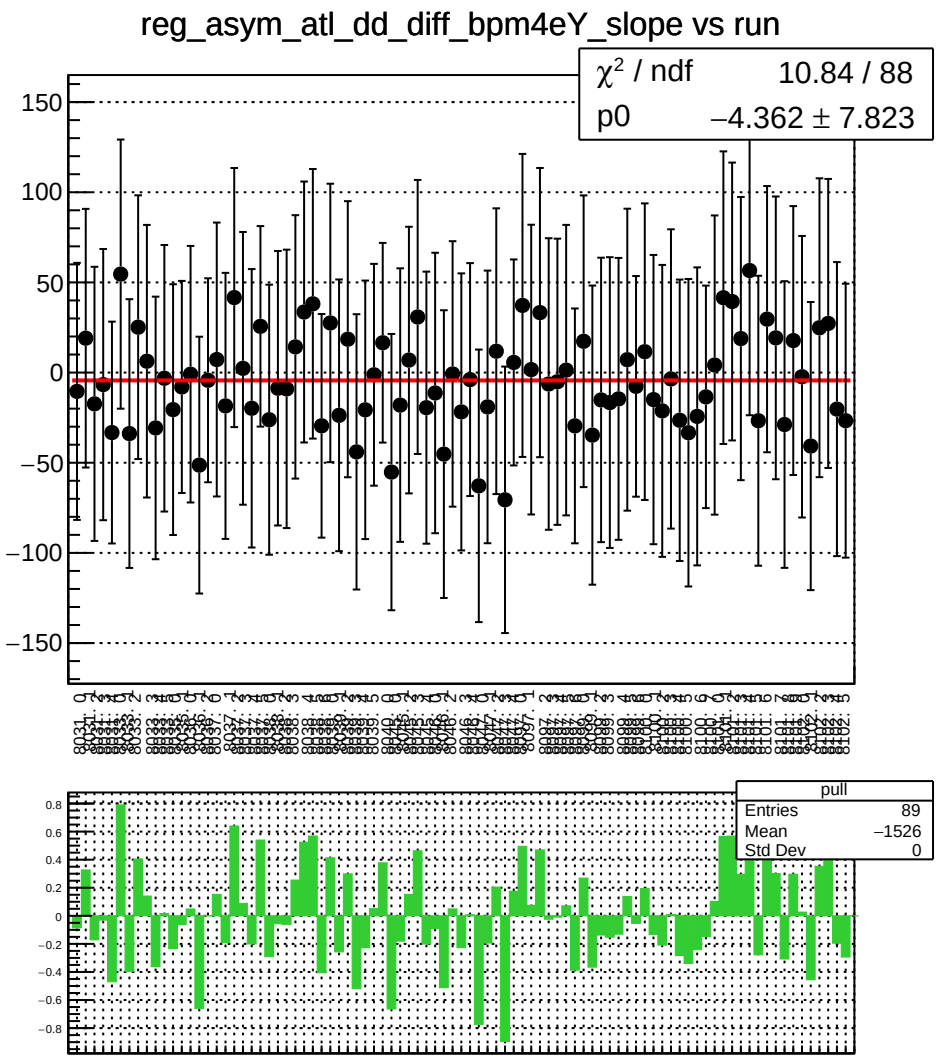

pull1D
Entries 89
Mean −0.02456
Std Dev 0.4465

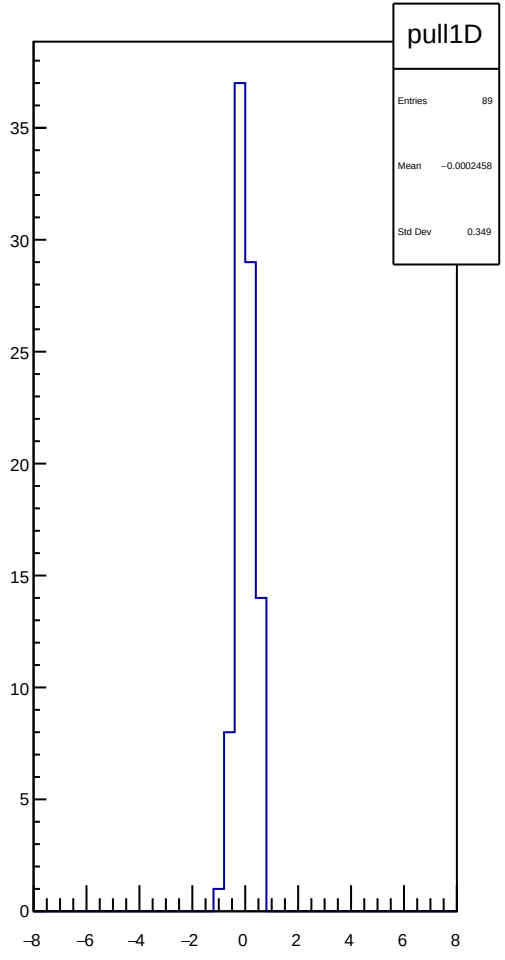

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.81 / 88
p0 −58.2 ± 7.367
50
0
−50
−100
−150
−200
pull
Entries 89
Mean −259.3
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

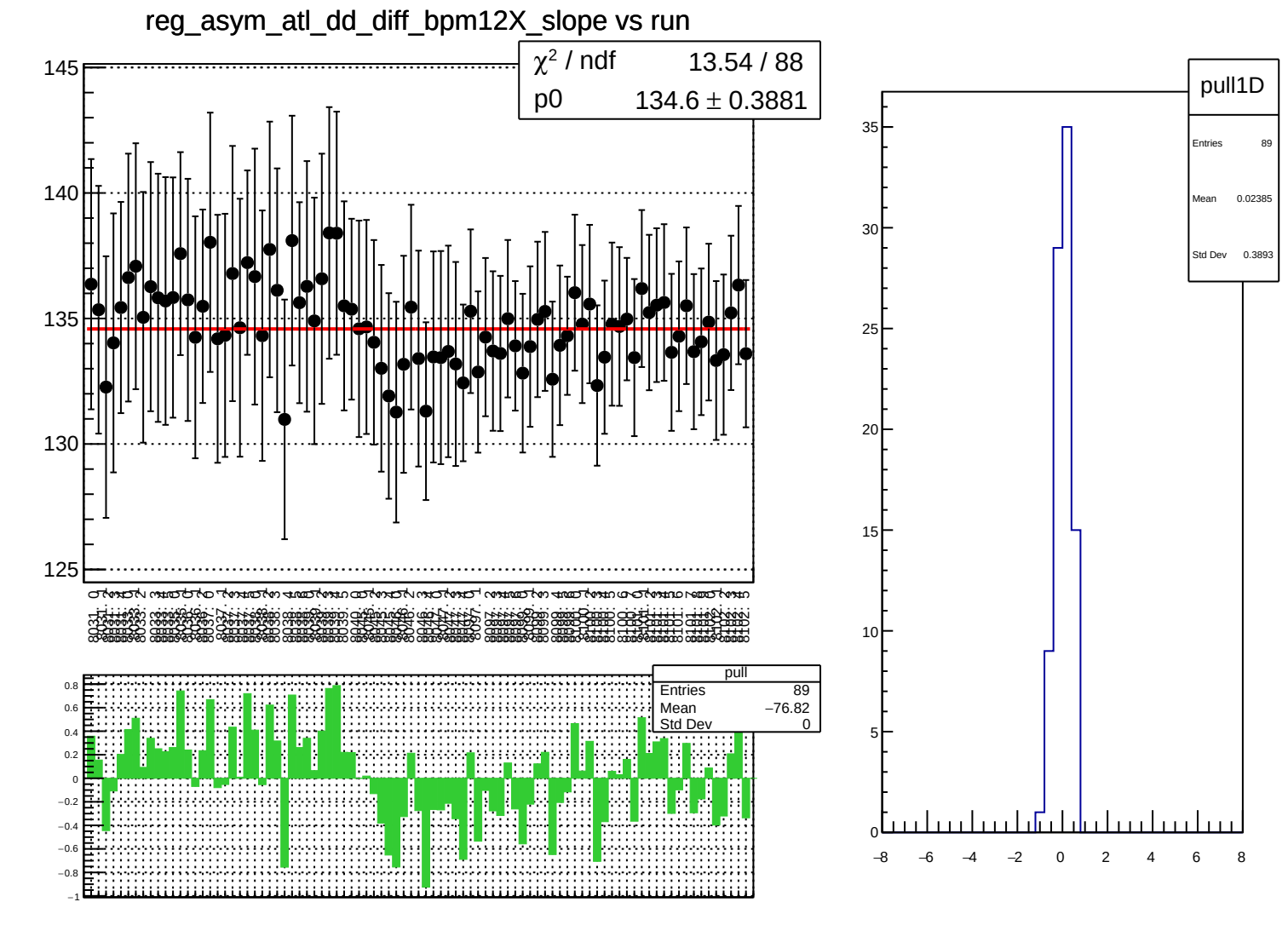

pull1D
Entries 89
Mean 0.0007989
Std Dev 0.3486
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

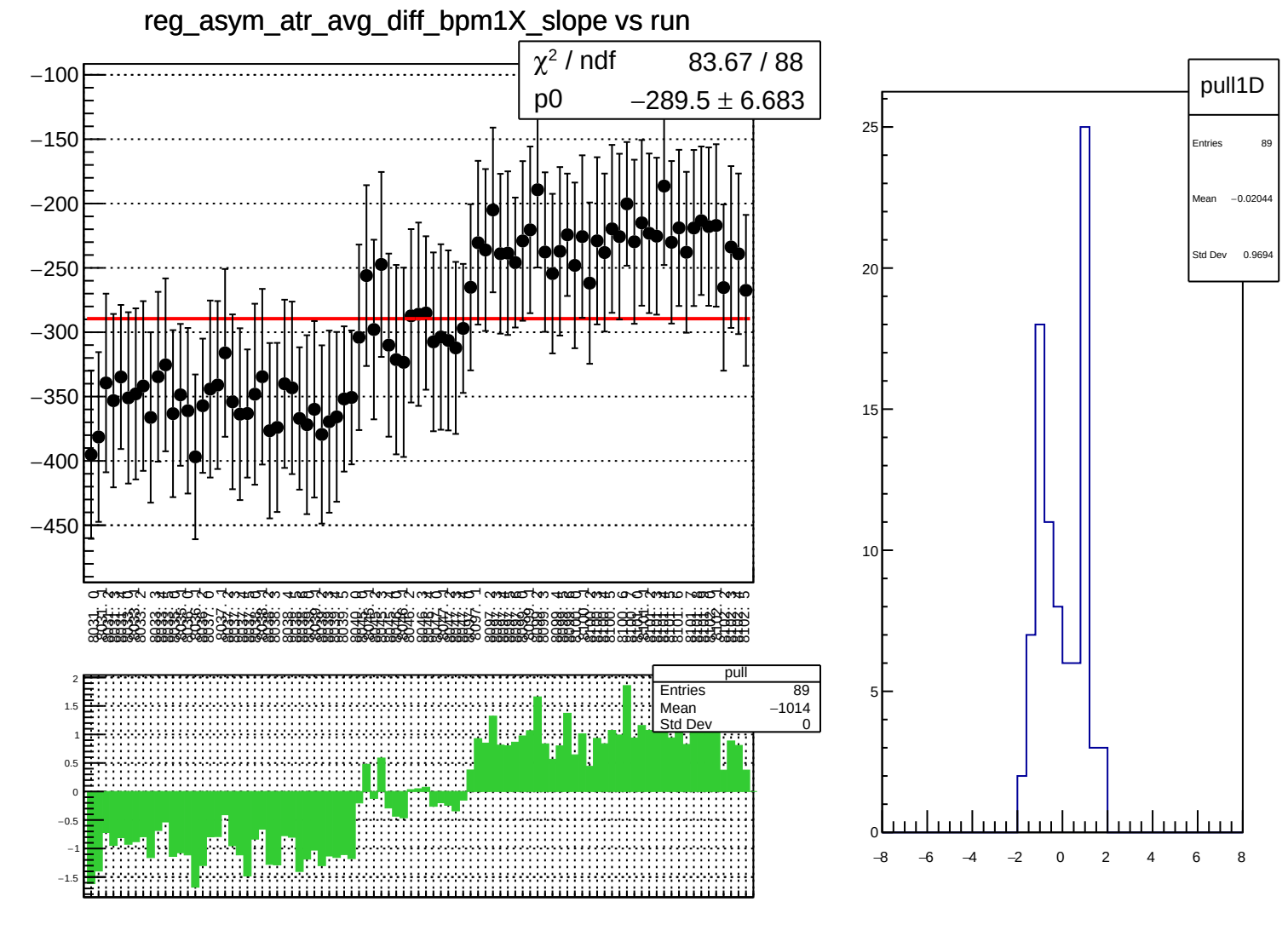

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 12.7 / 88
p0 −157.6 ± 4.69
pull
Entries 89
Mean 1509
Std Dev 0

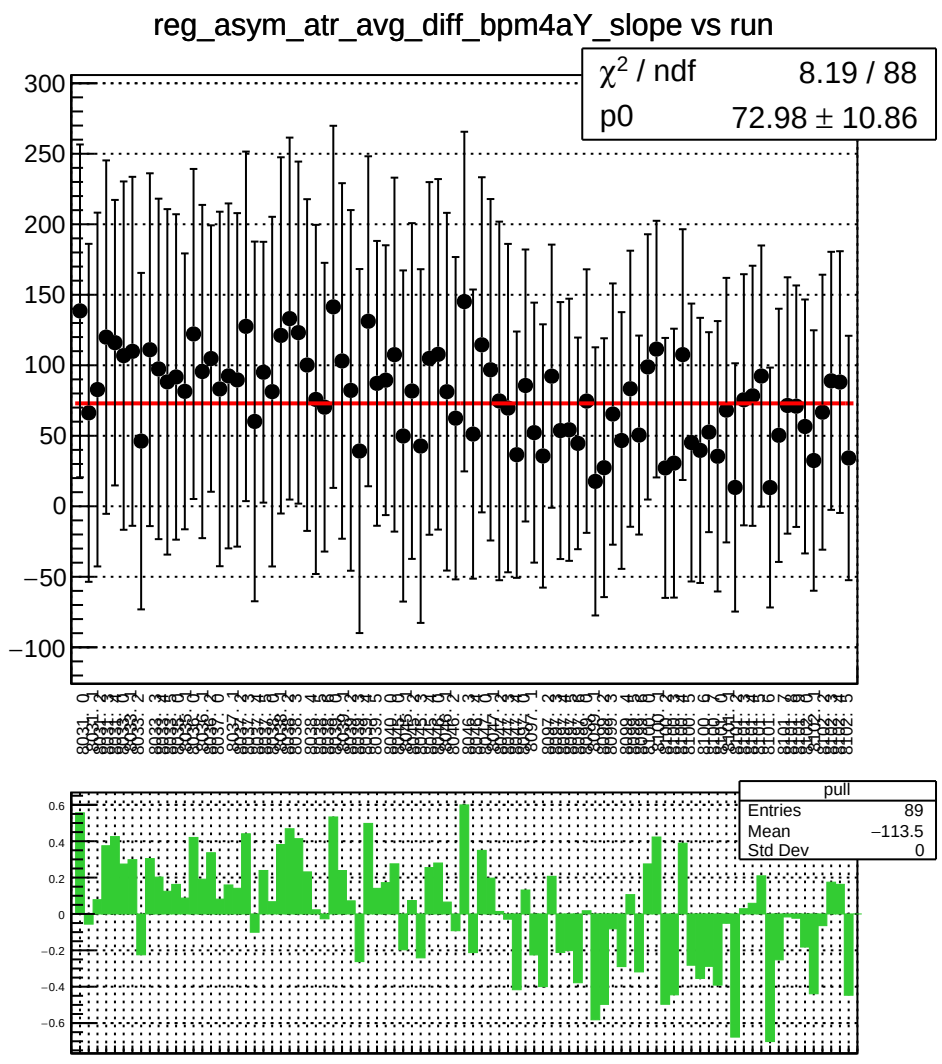

pull1D
Entries 89
Mean 0.0002926
Std Dev 0.3777

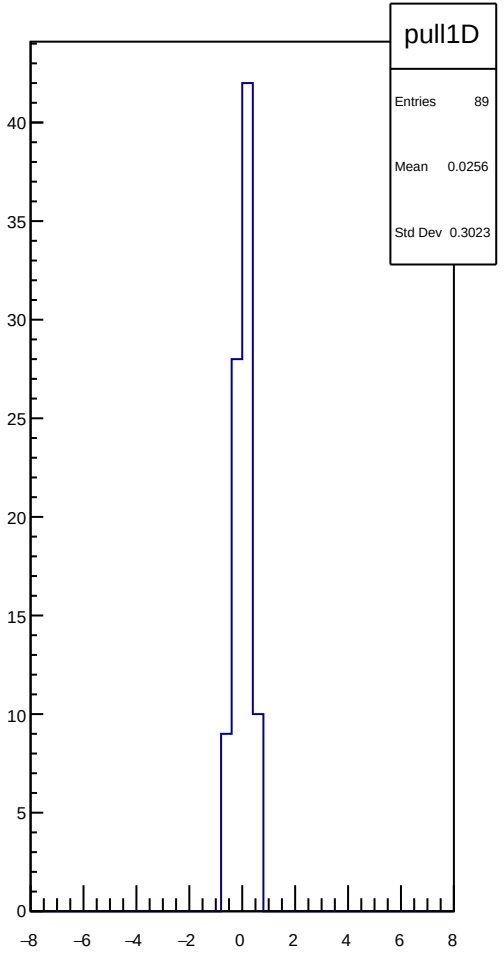

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.84 / 88
p0 −4.362 ± 7.823
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −1526
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

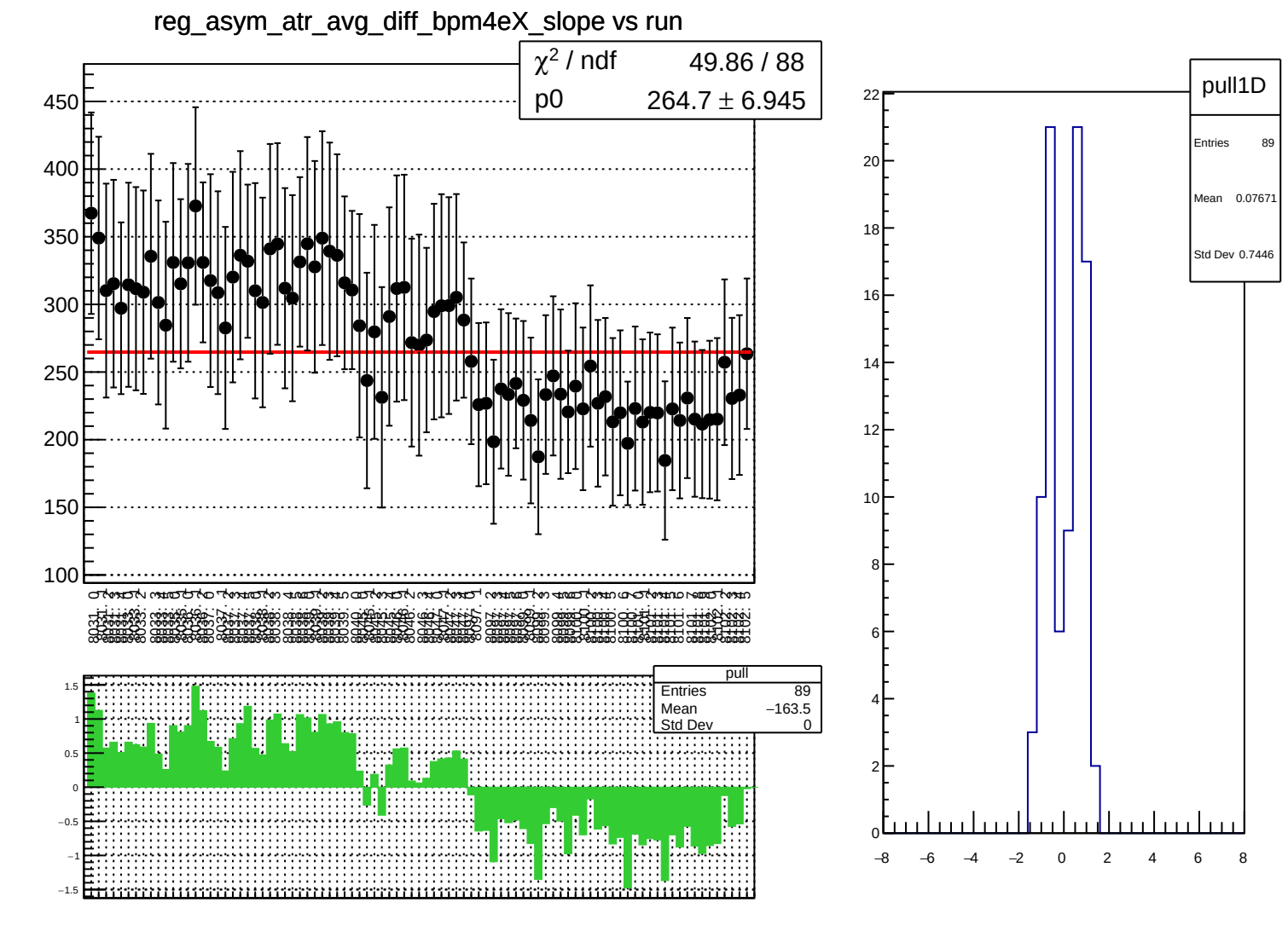

pull1D
Entries 89
Mean −0.0002458
Std Dev 0.349
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

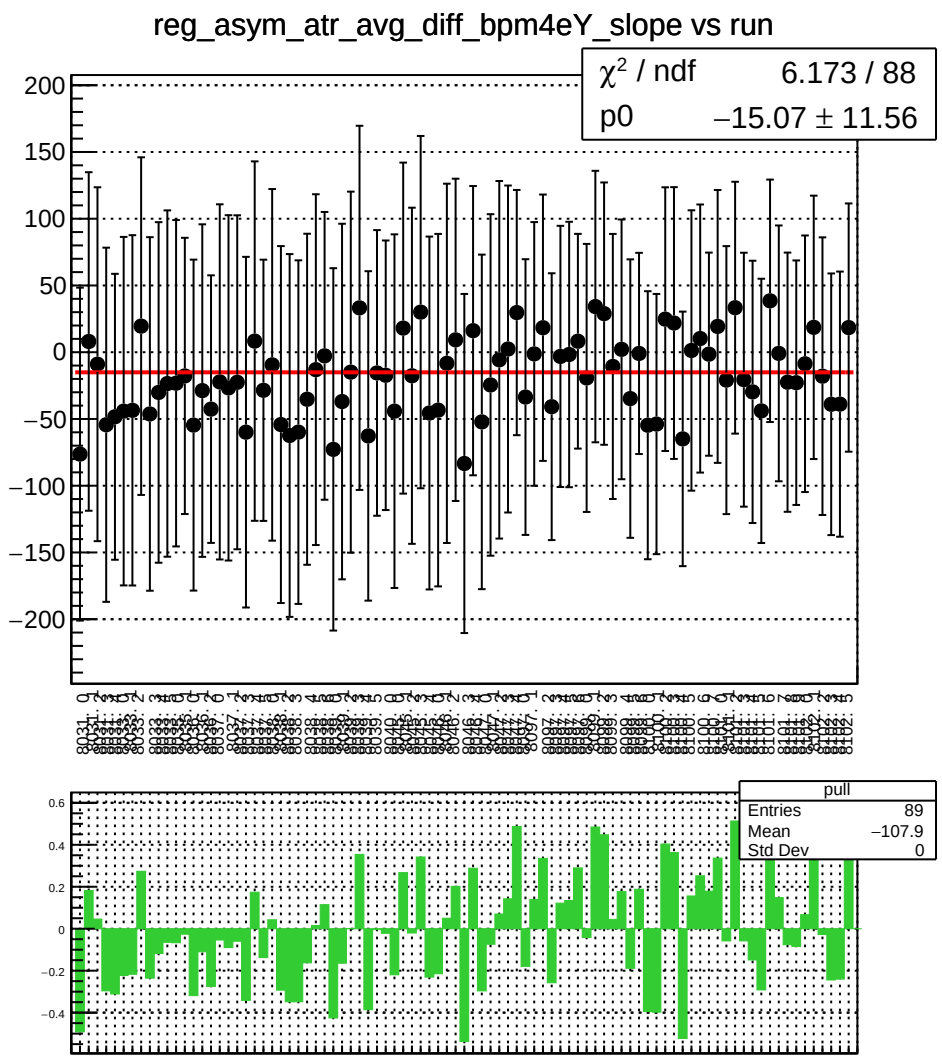

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 13.54 / 88
p0 134.6 ± 0.3881
145
140
135
130
125
pull
Entries 89
Mean −76.82
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 89
Mean 0.02385
Std Dev 0.3893
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

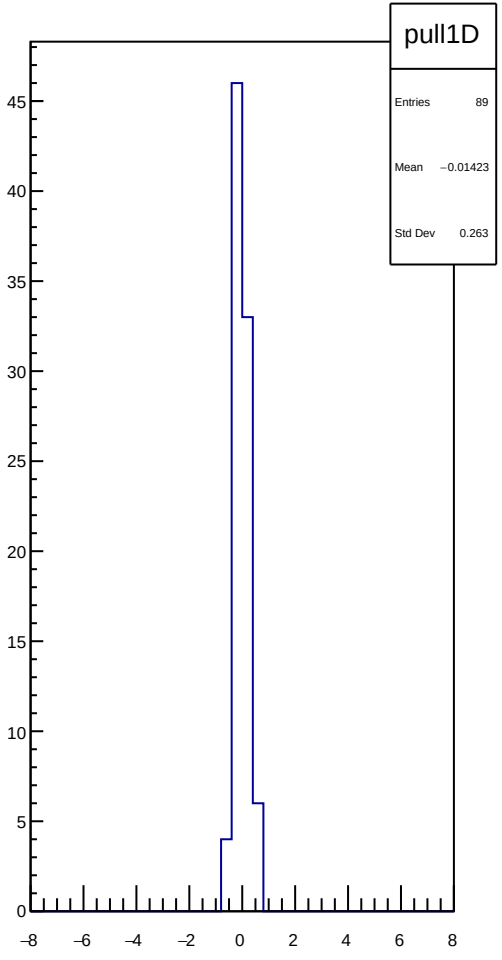

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 83.67 / 88
p0 −289.5 ± 6.683
pull
Entries 89
Mean −1014
Std Dev 0
pull1D
Entries 89
Mean −0.02044
Std Dev 0.9694

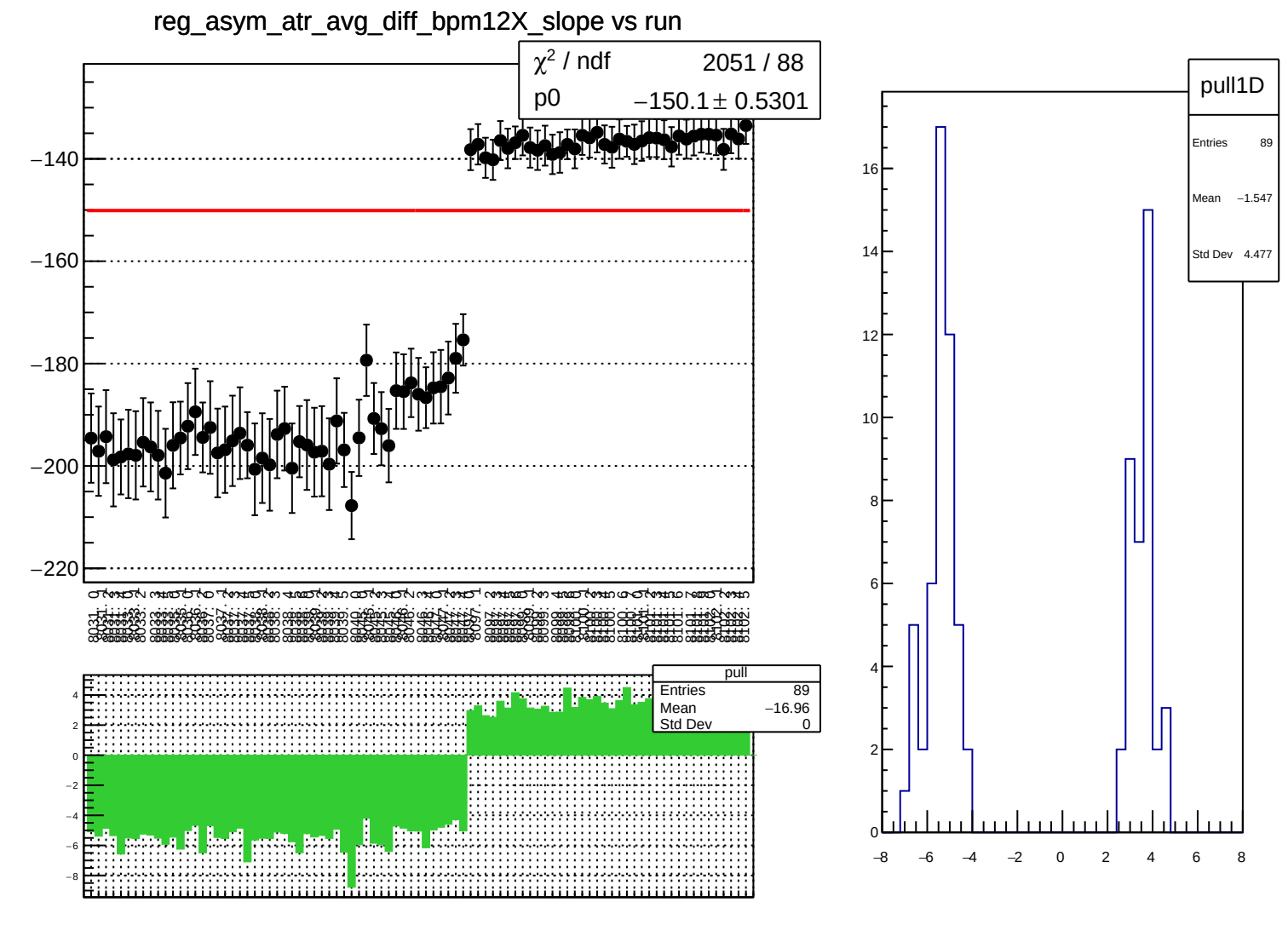

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.19 / 88
p0 72.98 ± 10.86
pull
Entries 89
Mean −113.5
Std Dev 0

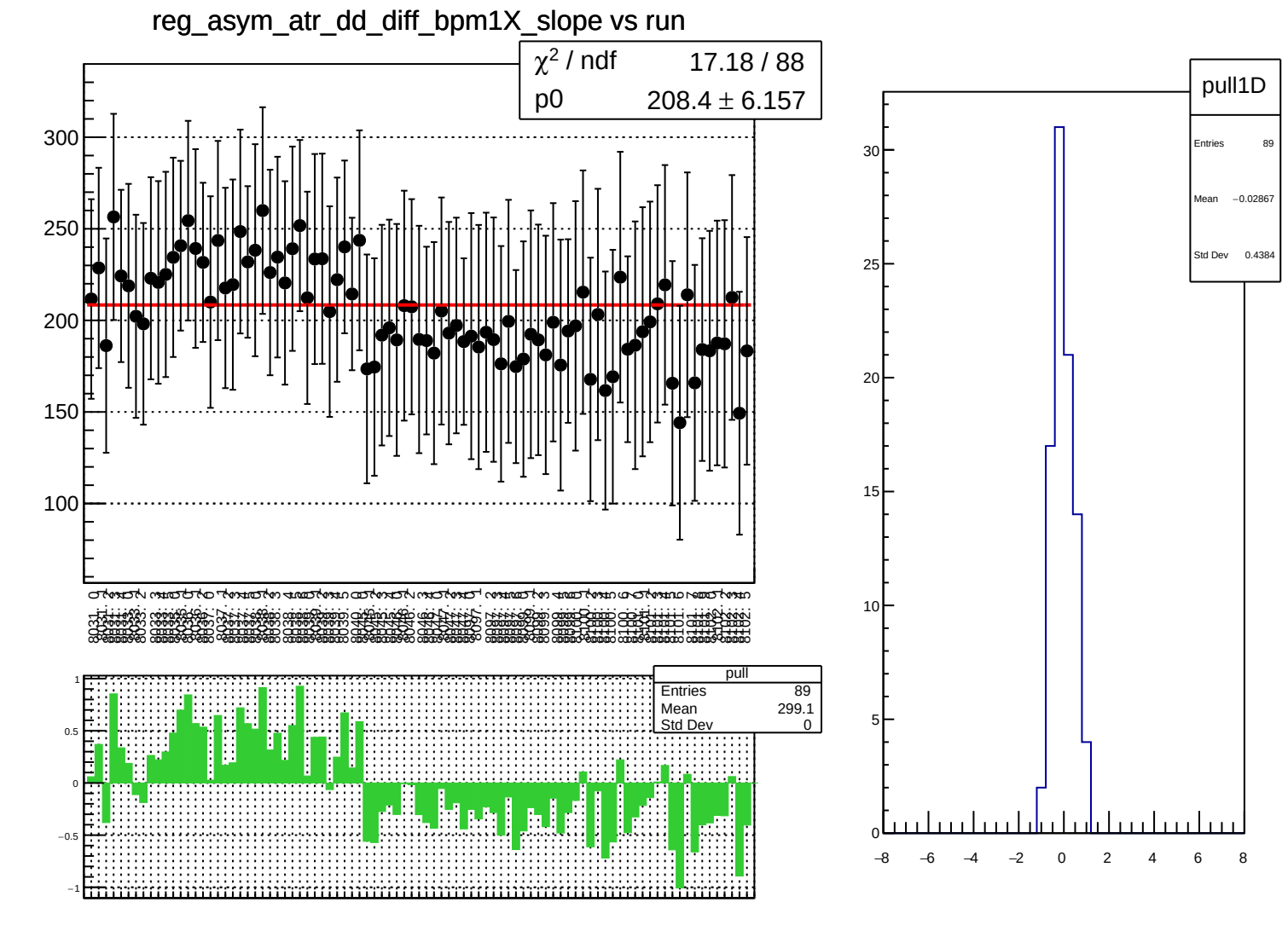

pull1D
Entries 89
Mean 0.0256
Std Dev 0.3023

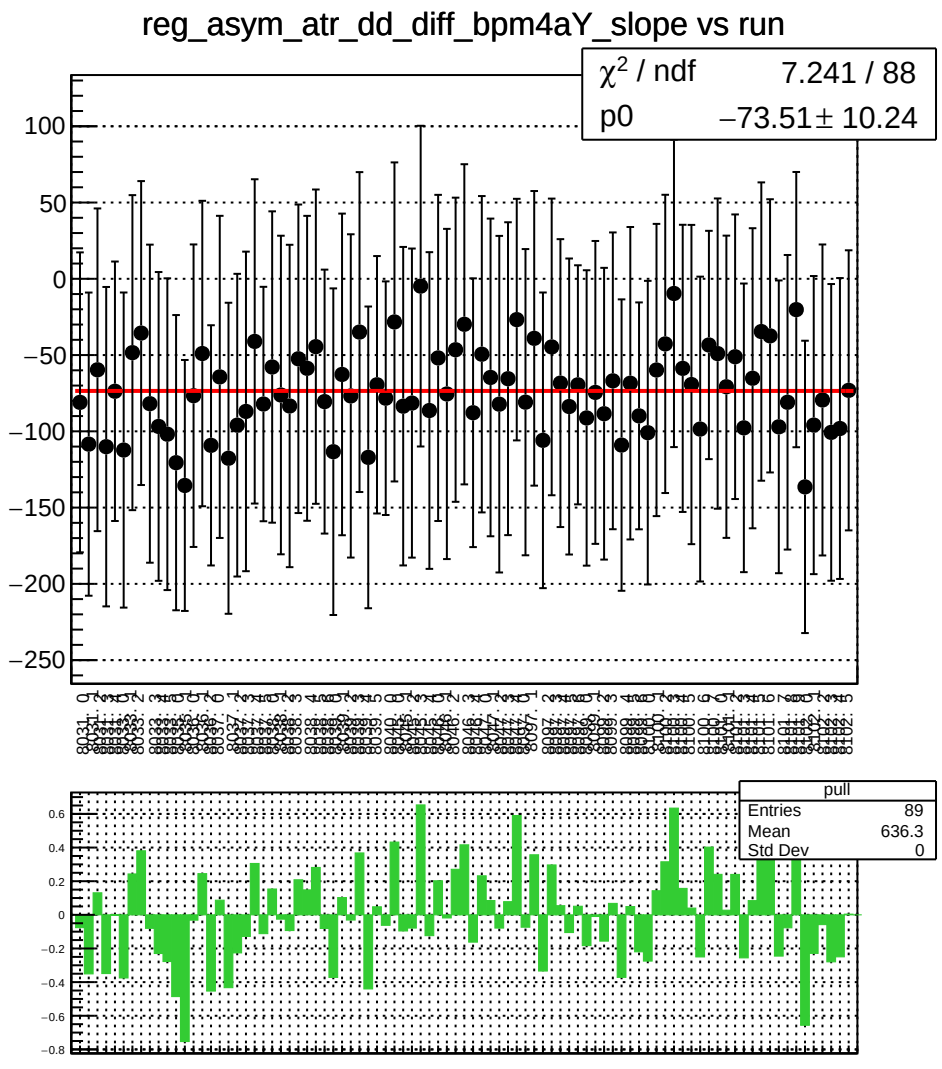

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 49.86 / 88
p0 264.7 ± 6.945
pull
Entries 89
Mean −163.5
Std Dev 0
pull1D
Entries 89
Mean 0.07671
Std Dev 0.7446

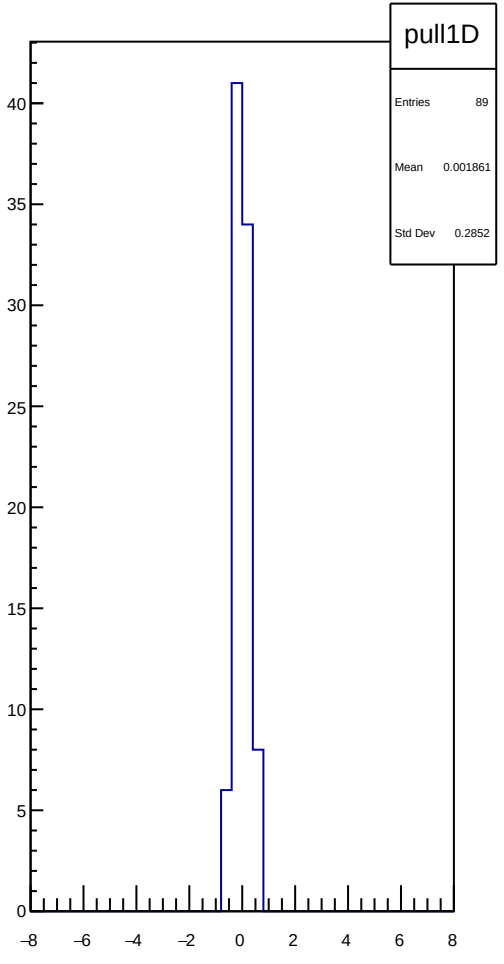

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.173 / 88
p0 −15.07 ± 11.56
pull
Entries 89
Mean −107.9
Std Dev 0

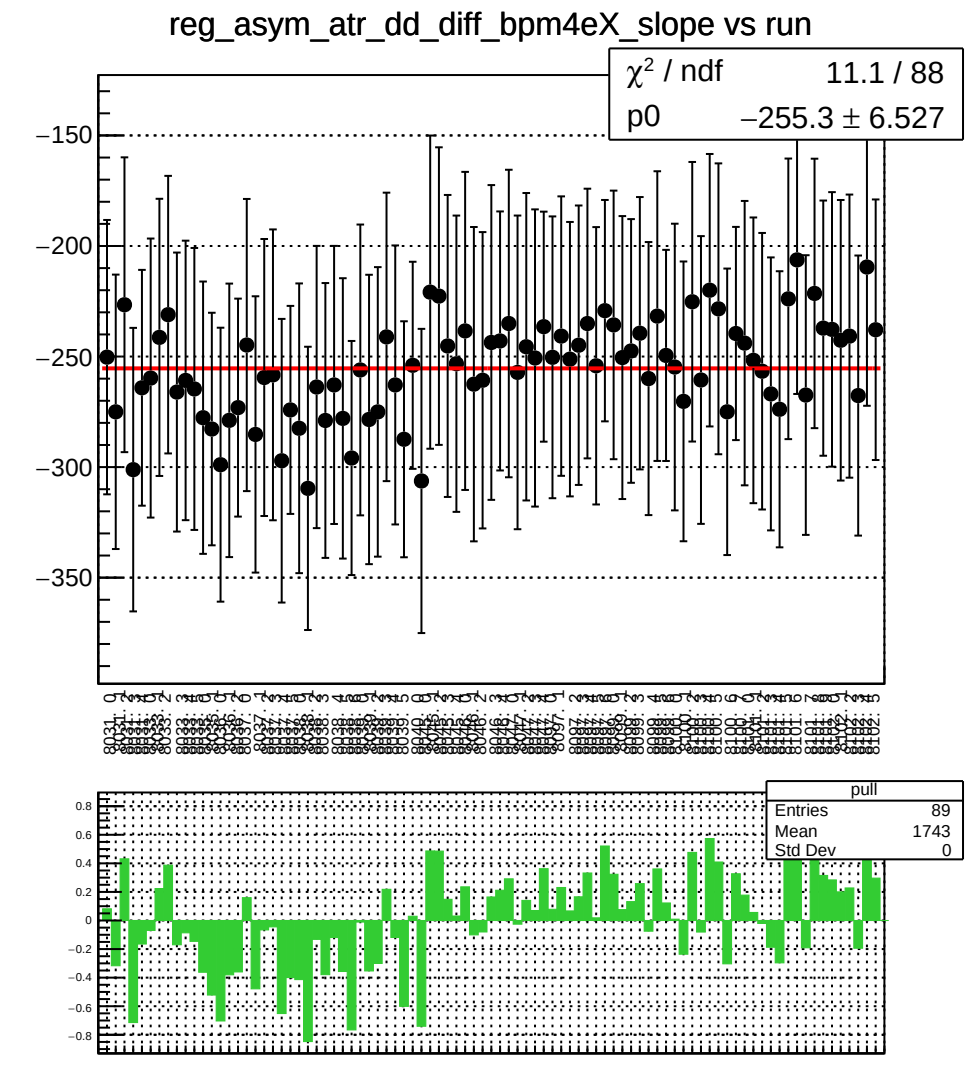

pull1D
Entries 89
Mean −0.01423
Std Dev 0.263

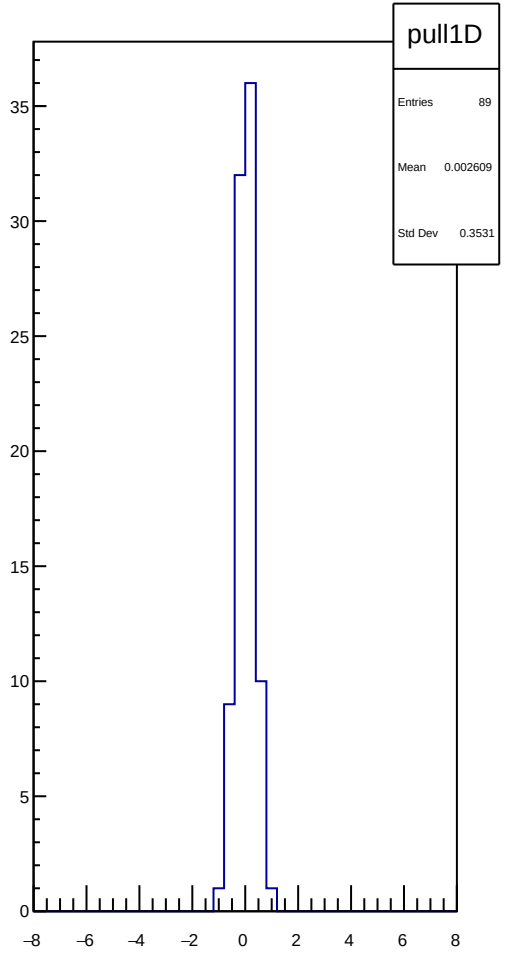

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 2051 / 88
p0 −150.1 ± 0.5301
−140
−160
−180
−200
−220
pull
Entries 89
Mean −16.96
Std Dev 0
4
2
0
−2
−4
−6
−8
pull1D
Entries 89
Mean −1.547
Std Dev 4.477
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

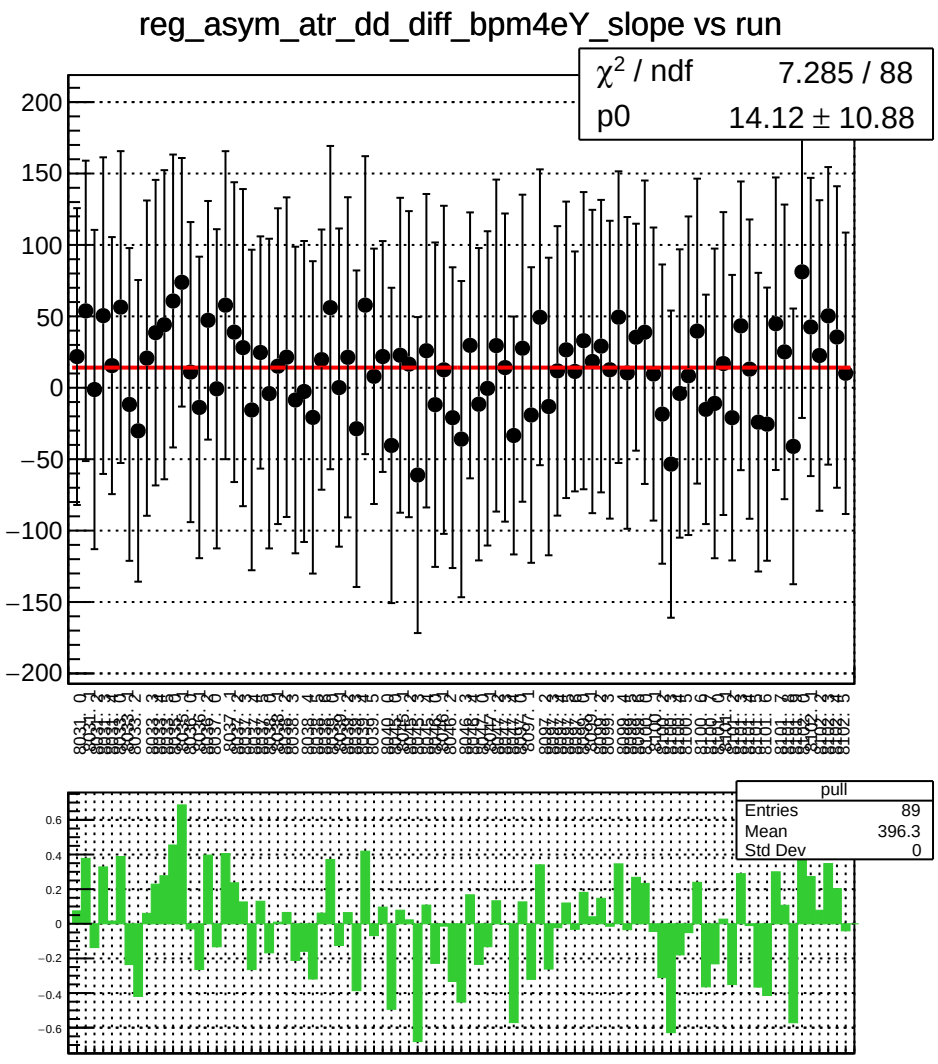

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 17.18 / 88
p0 208.4 ± 6.157
300
250
200
150
100
pull
Entries 89
Mean 299.1
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean −0.02867
Std Dev 0.4384
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

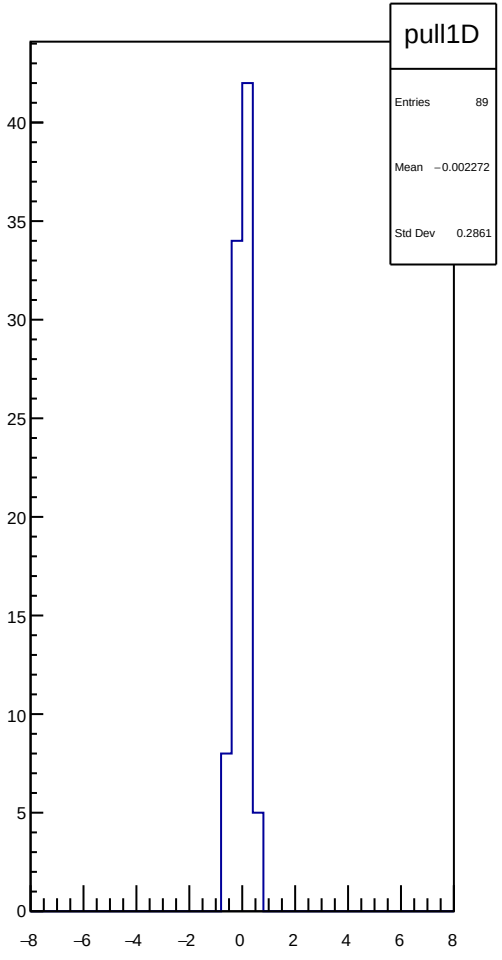

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.241 / 88
p0 −73.51 ± 10.24
pull
Entries 89
Mean 636.3
Std Dev 0

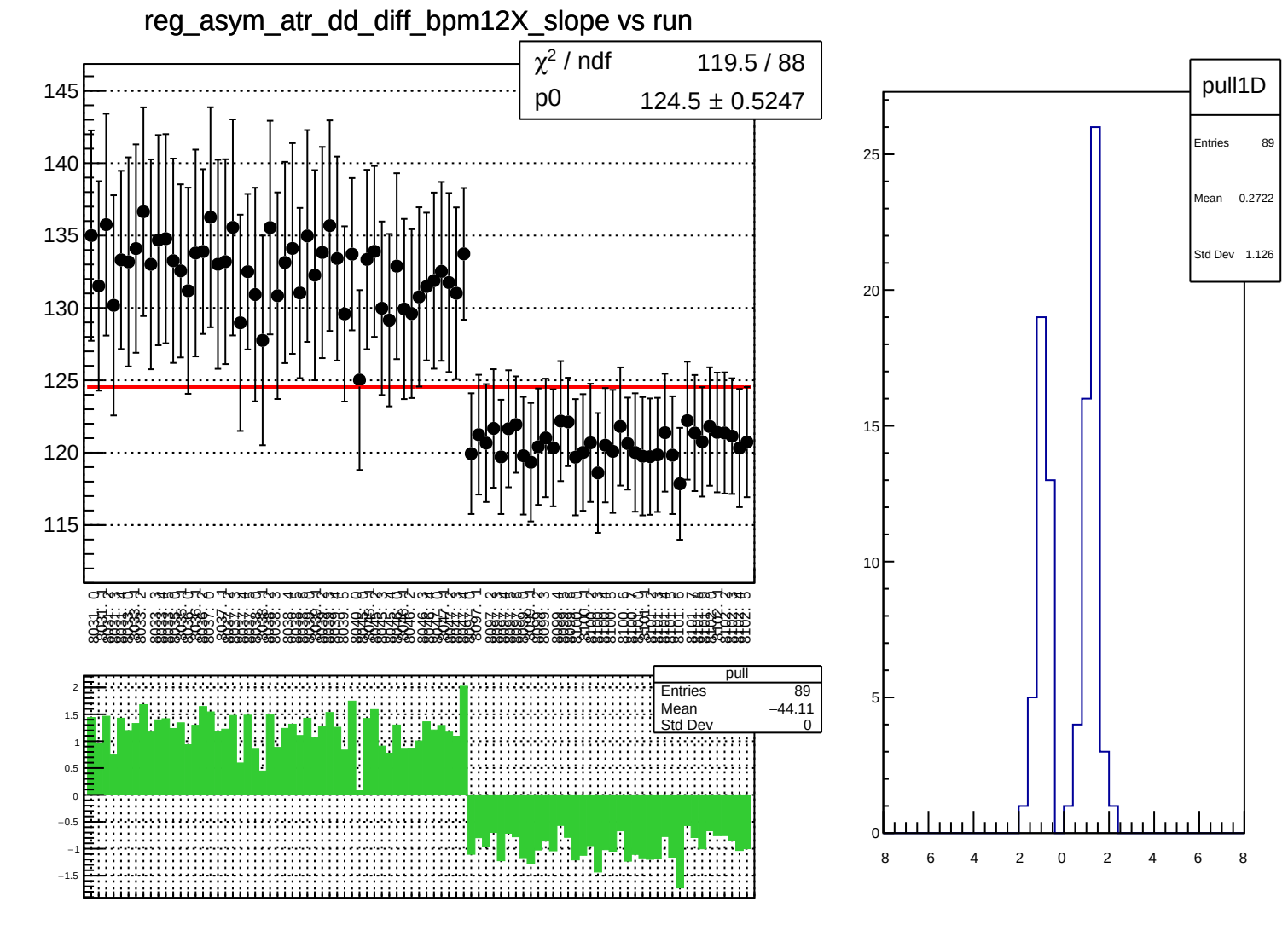

pull1D
Entries 89
Mean 0.001861
Std Dev 0.2852

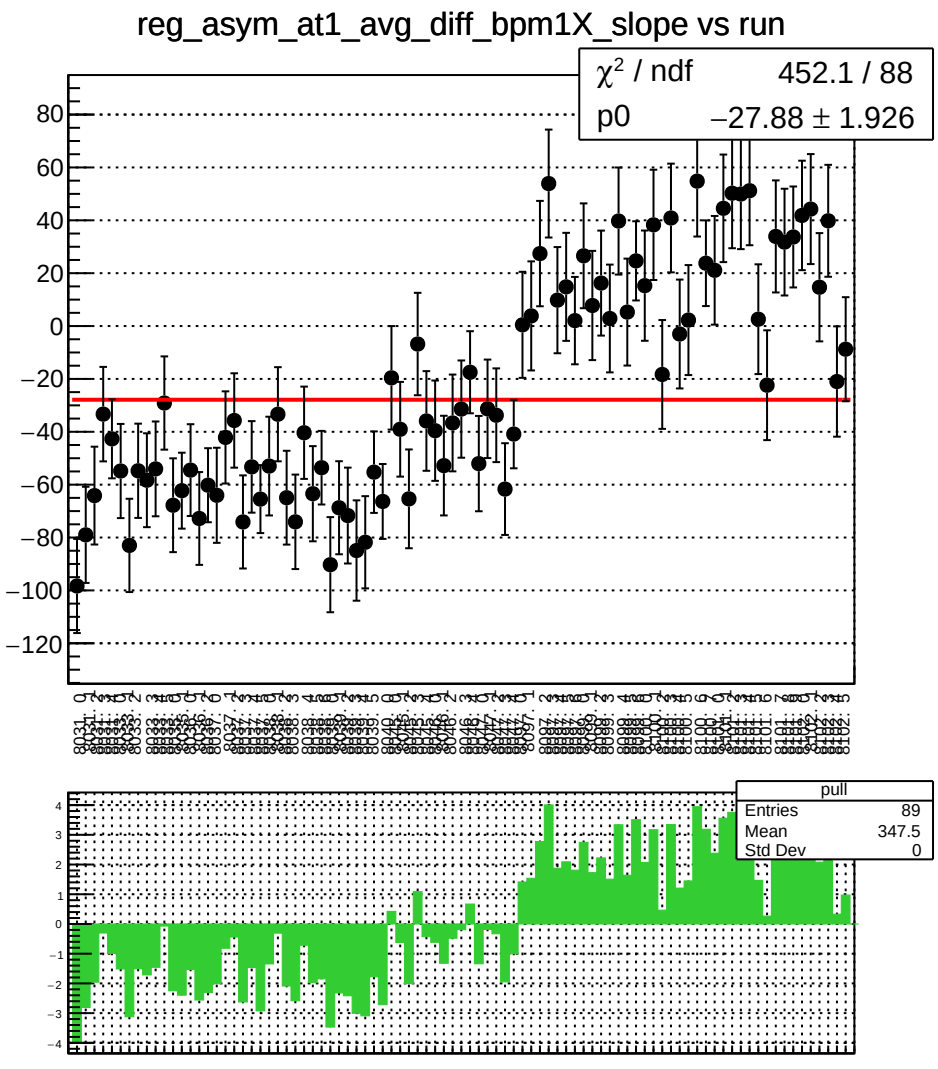

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.1 / 88
p0 −255.3 ± 6.527
−150
−200
−250
−300
−350
pull
Entries 89
Mean 1743
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

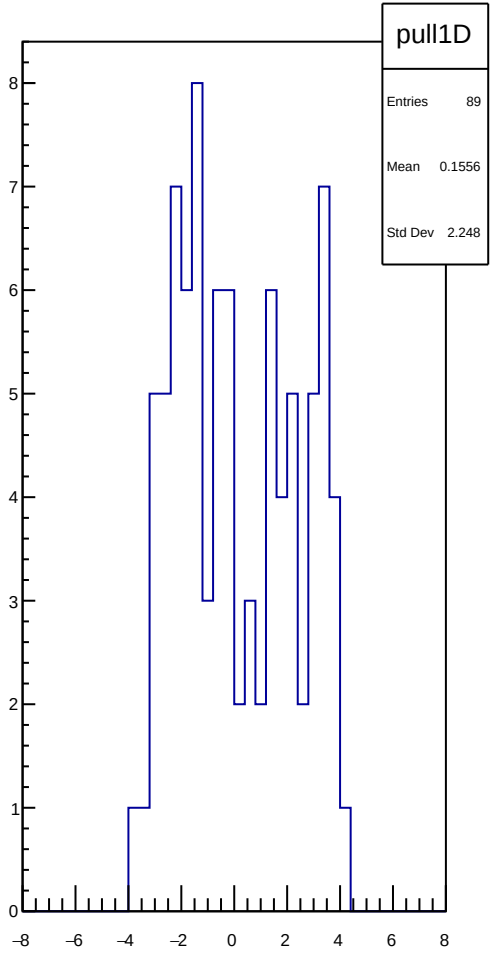

pull1D
Entries 89
Mean 0.002609
Std Dev 0.3531
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

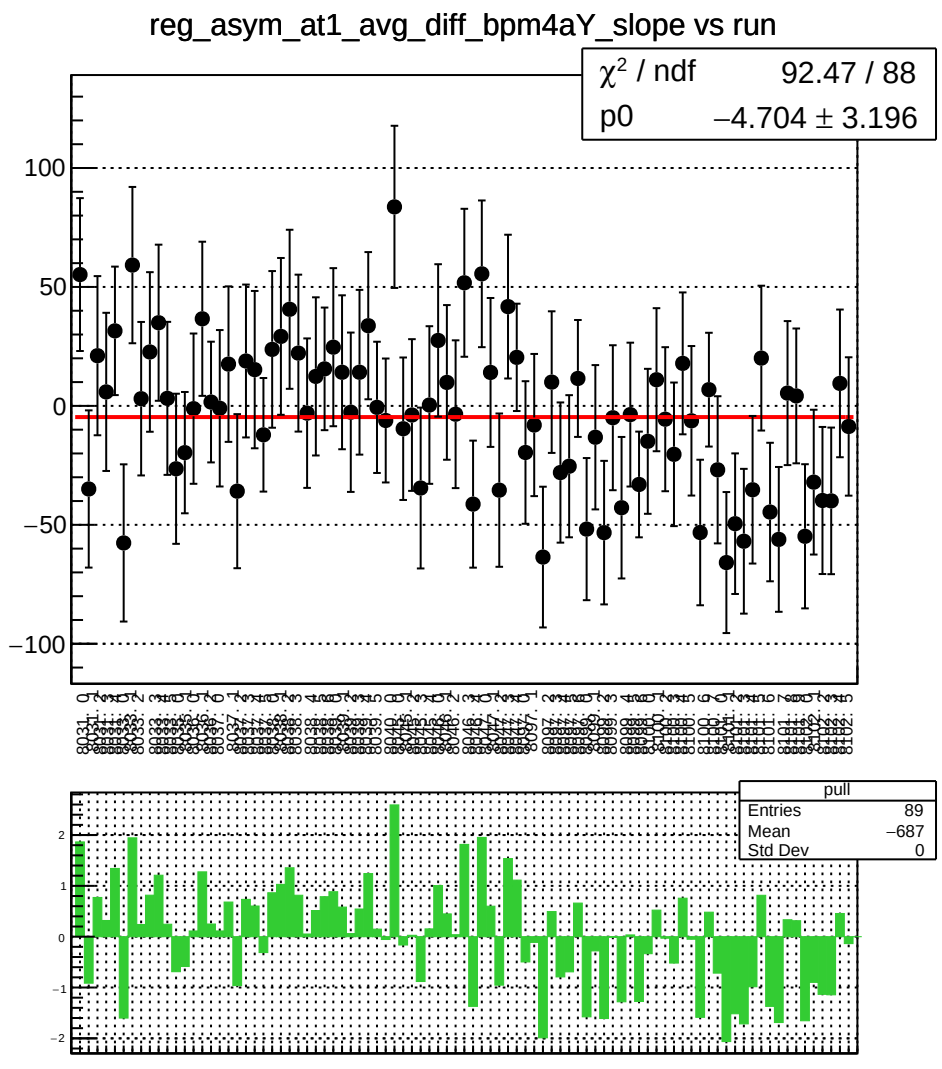

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.285 / 88
p0 14.12 ± 10.88
pull
Entries 89
Mean 396.3
Std Dev 0

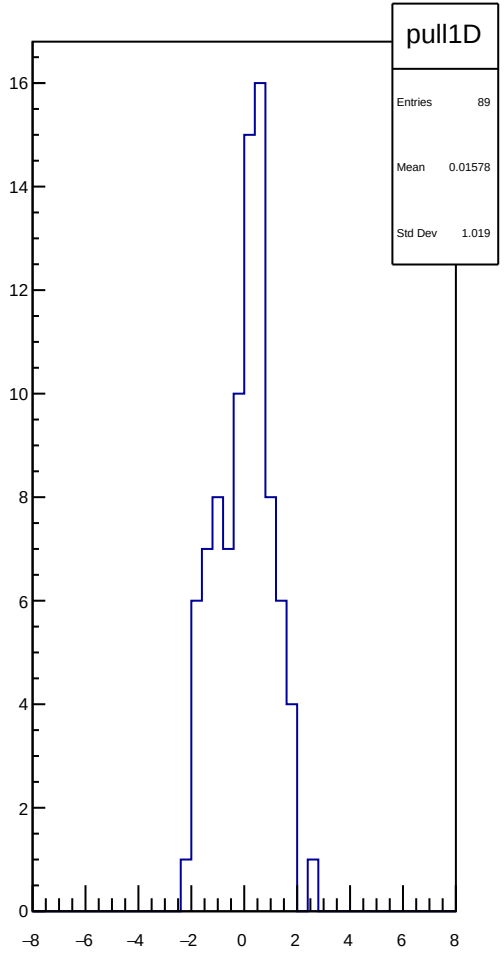

pull1D
Entries 89
Mean −0.002272
Std Dev 0.2861

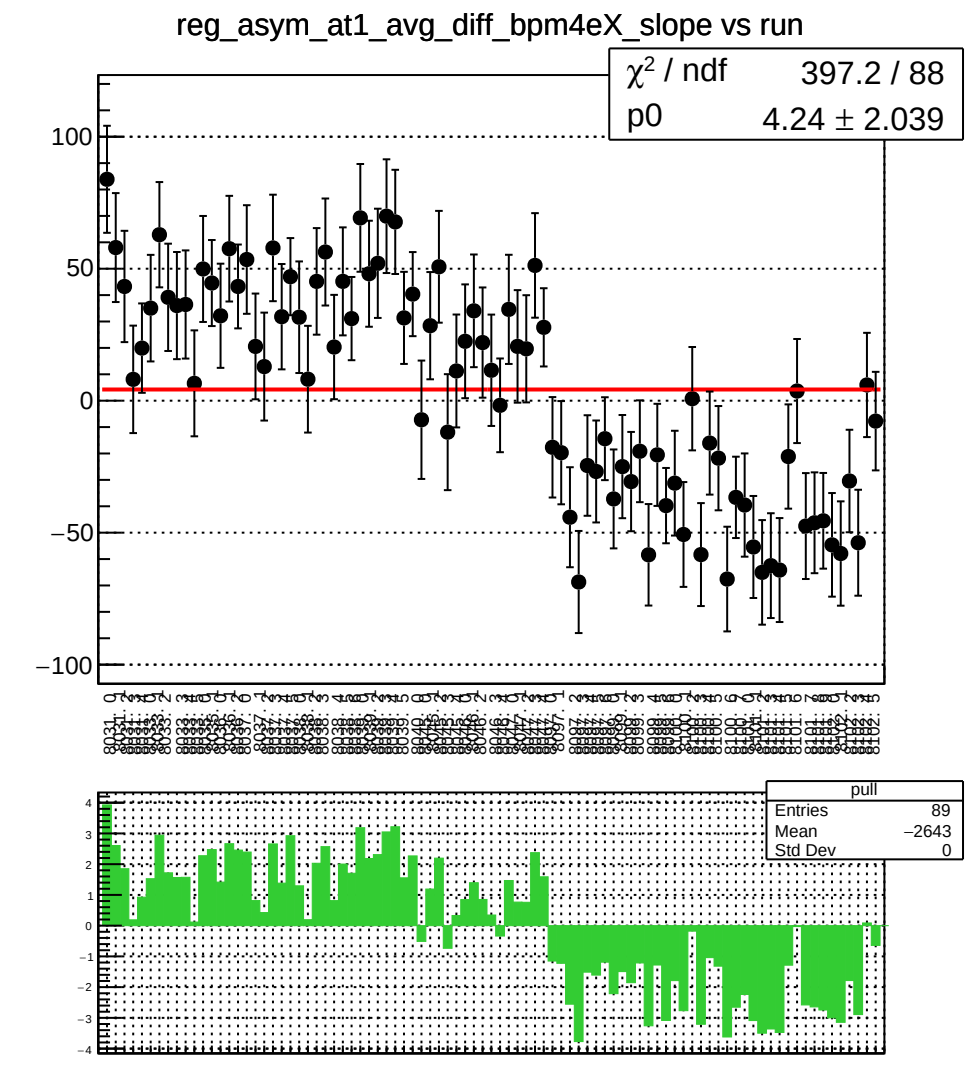

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 119.5 / 88
p0 124.5 ± 0.5247
145
140
135
130
125
120
115
pull
Entries 89
Mean −44.11
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 89
Mean 0.2722
Std Dev 1.126
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

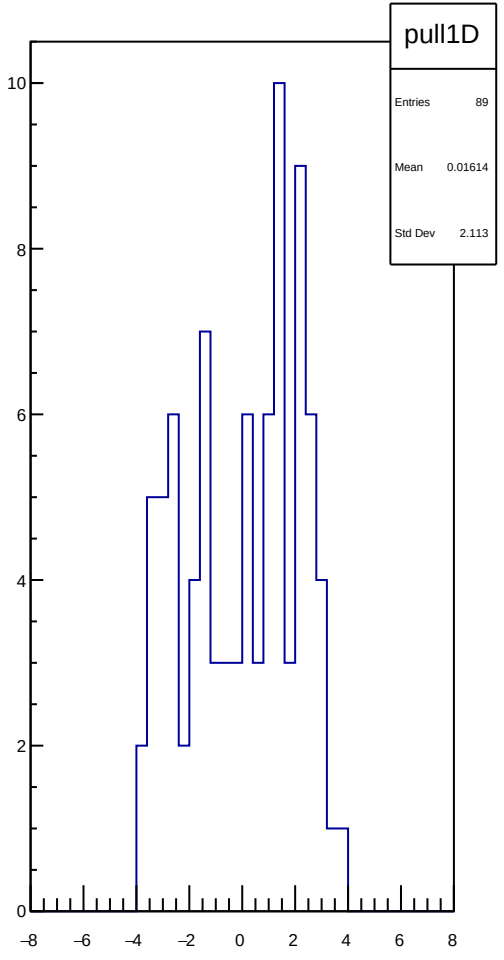

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 452.1 / 88
p0 −27.88 ± 1.926
pull
Entries 89
Mean 347.5
Std Dev 0

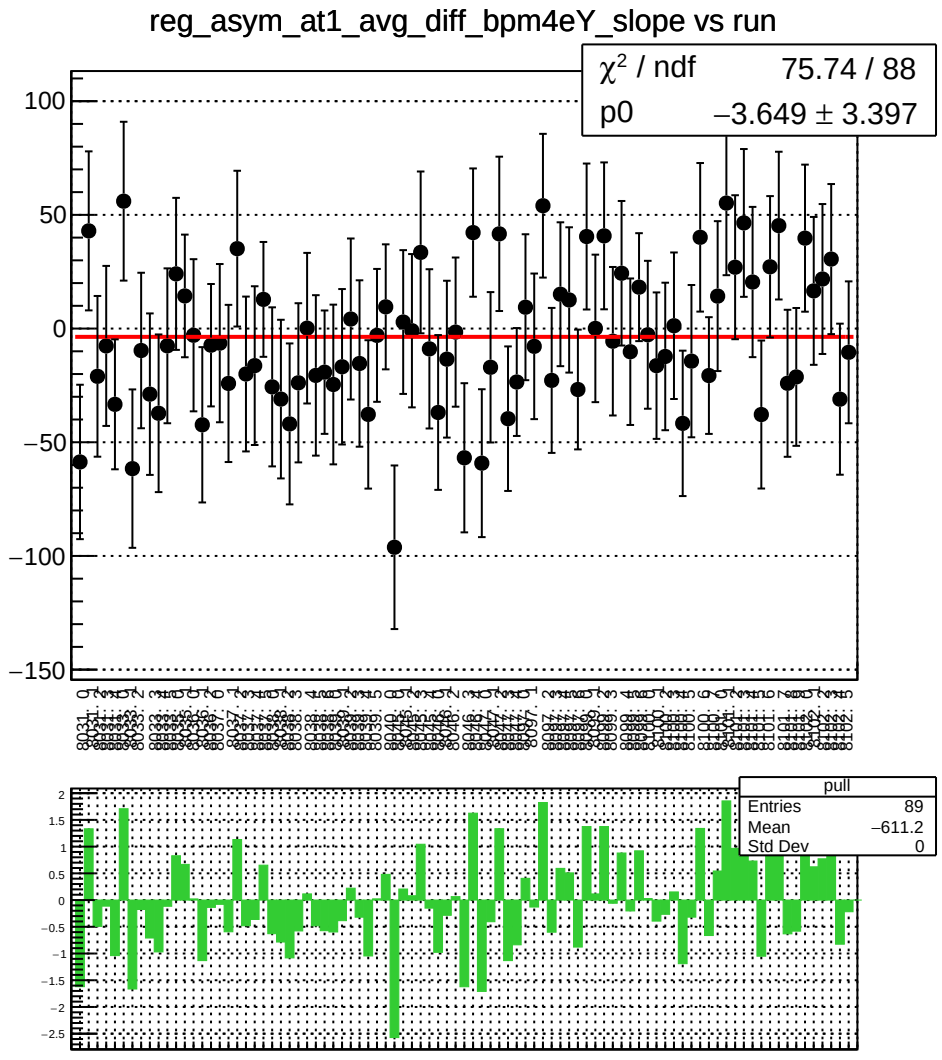

pull1D
Entries 89
Mean 0.1556
Std Dev 2.248

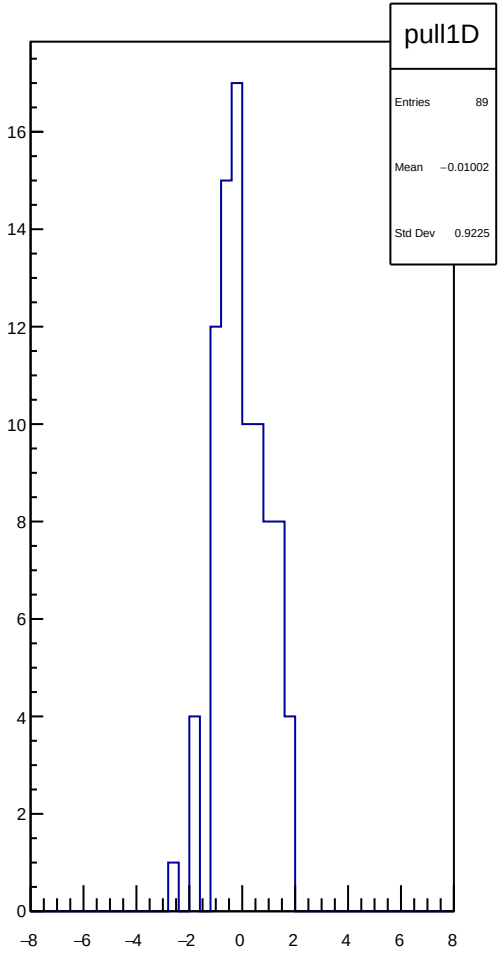

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 92.47 / 88
p0 −4.704 ± 3.196
100
50
0
−50
−100
pull
Entries 89
Mean −687
Std Dev 0
2
1
0
−1
−2

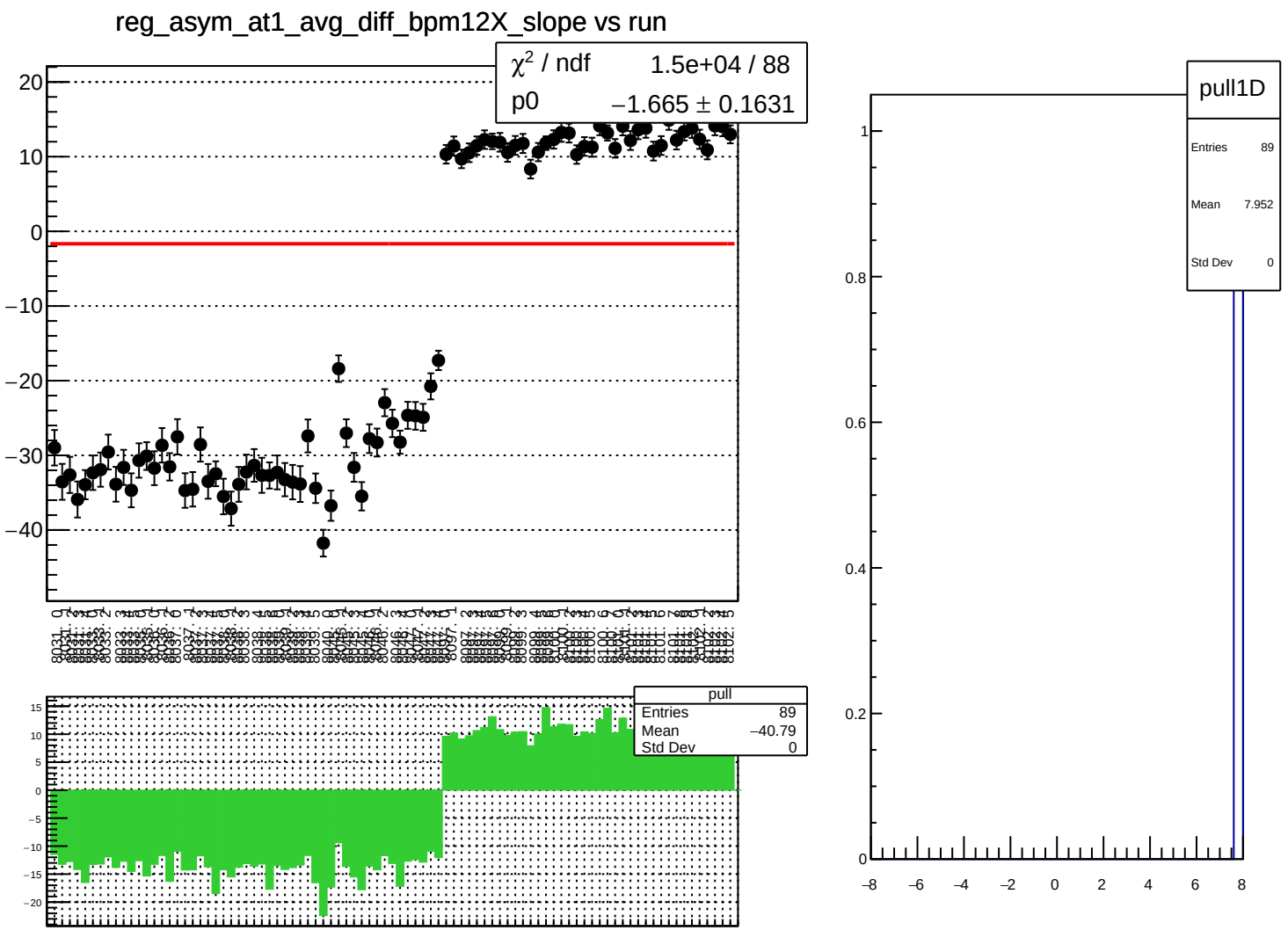

pull1D
Entries 89
Mean 0.01578
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

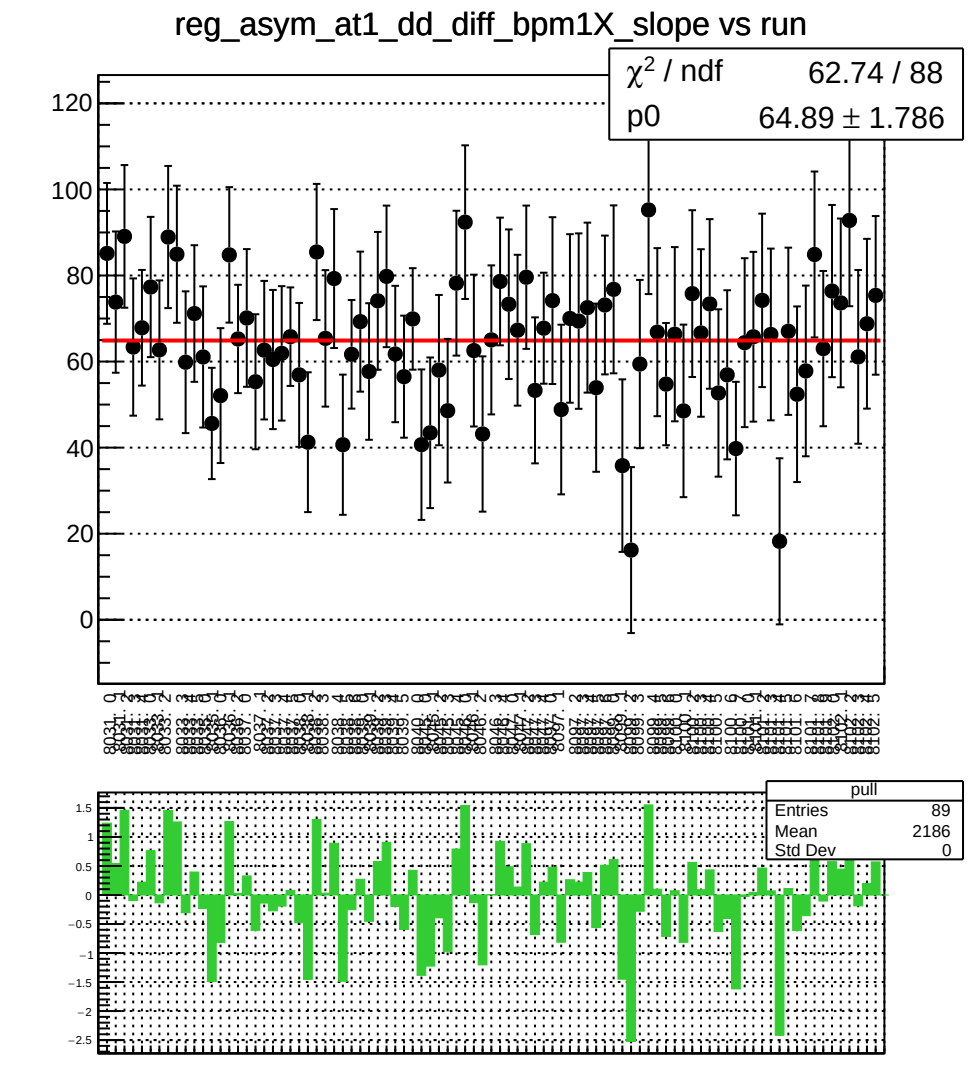

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 397.2 / 88
p0 4.24 ± 2.039
100
50
0
−50
−100
pull
Entries 89
Mean −2643
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4

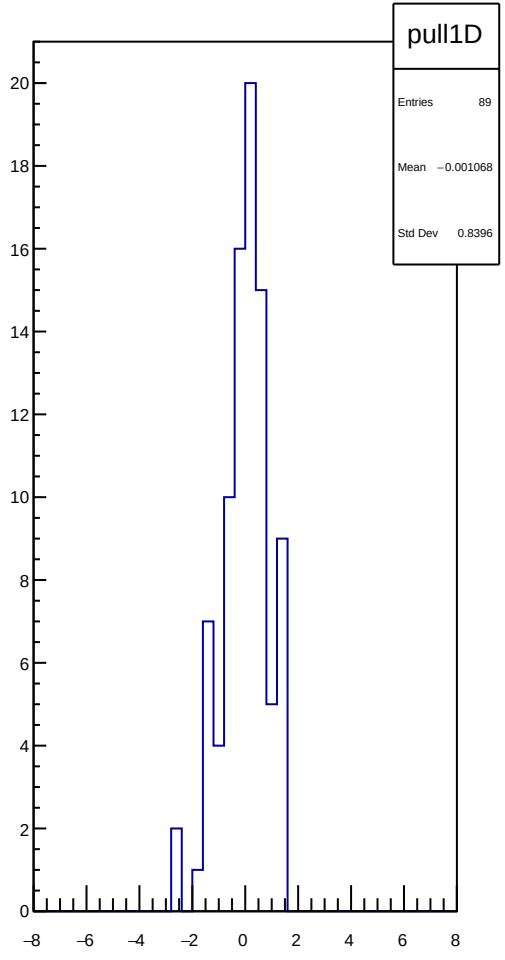

pull1D
Entries 89
Mean 0.01614
Std Dev 2.113
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

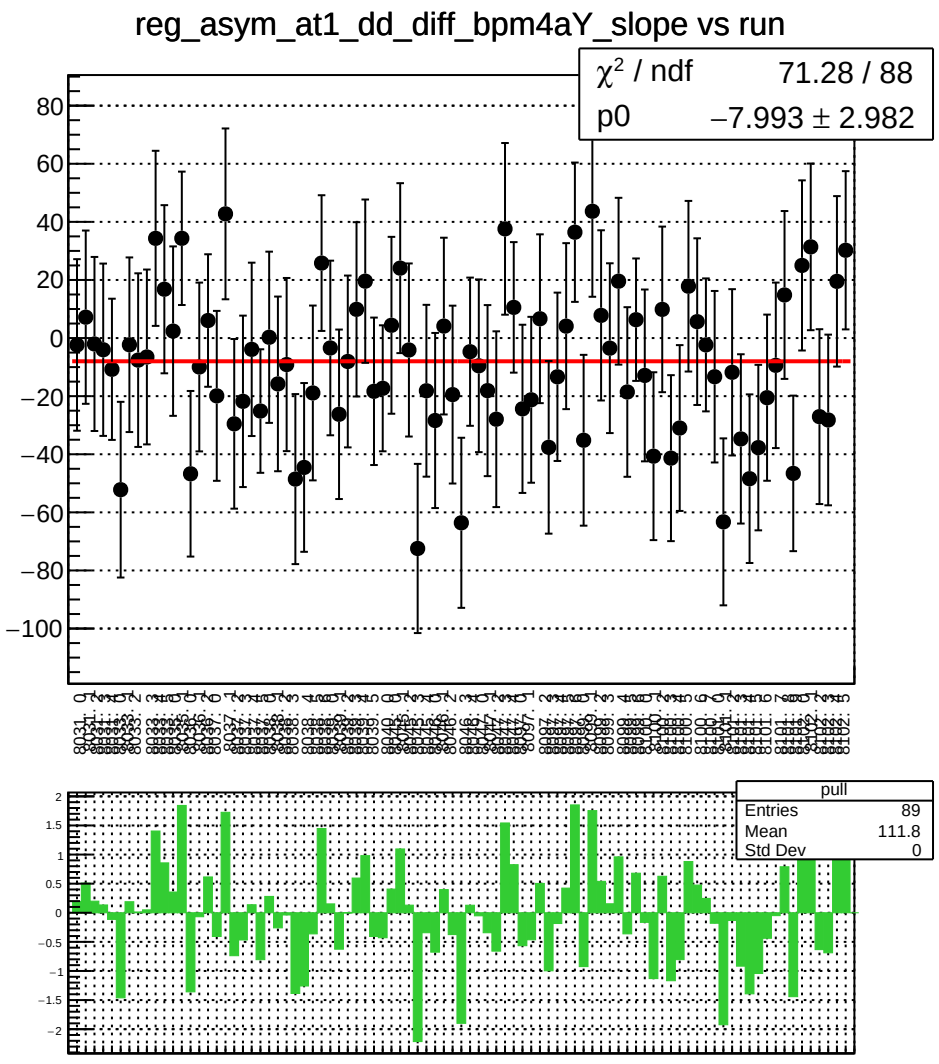

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 75.74 / 88
p0 −3.649 ± 3.397
pull
Entries 89
Mean −611.2
Std Dev 0

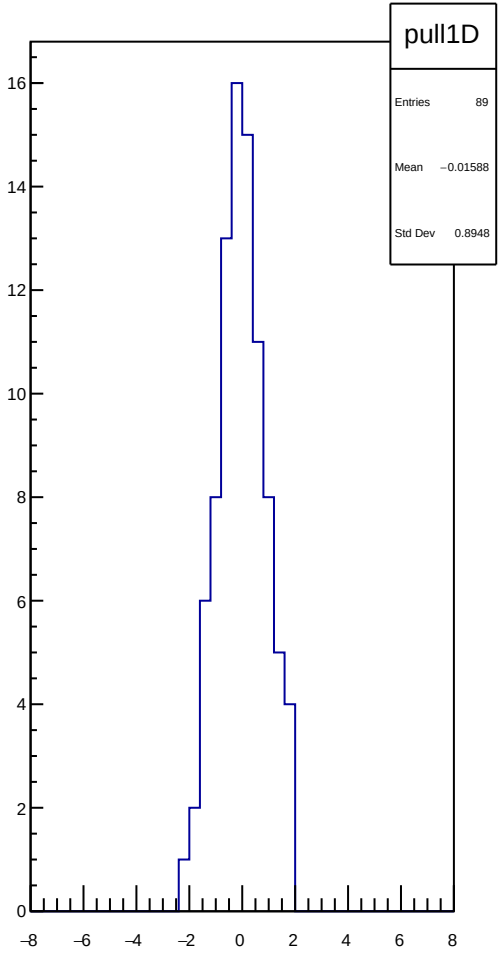

pull1D
Entries 89
Mean −0.01002
Std Dev 0.9225

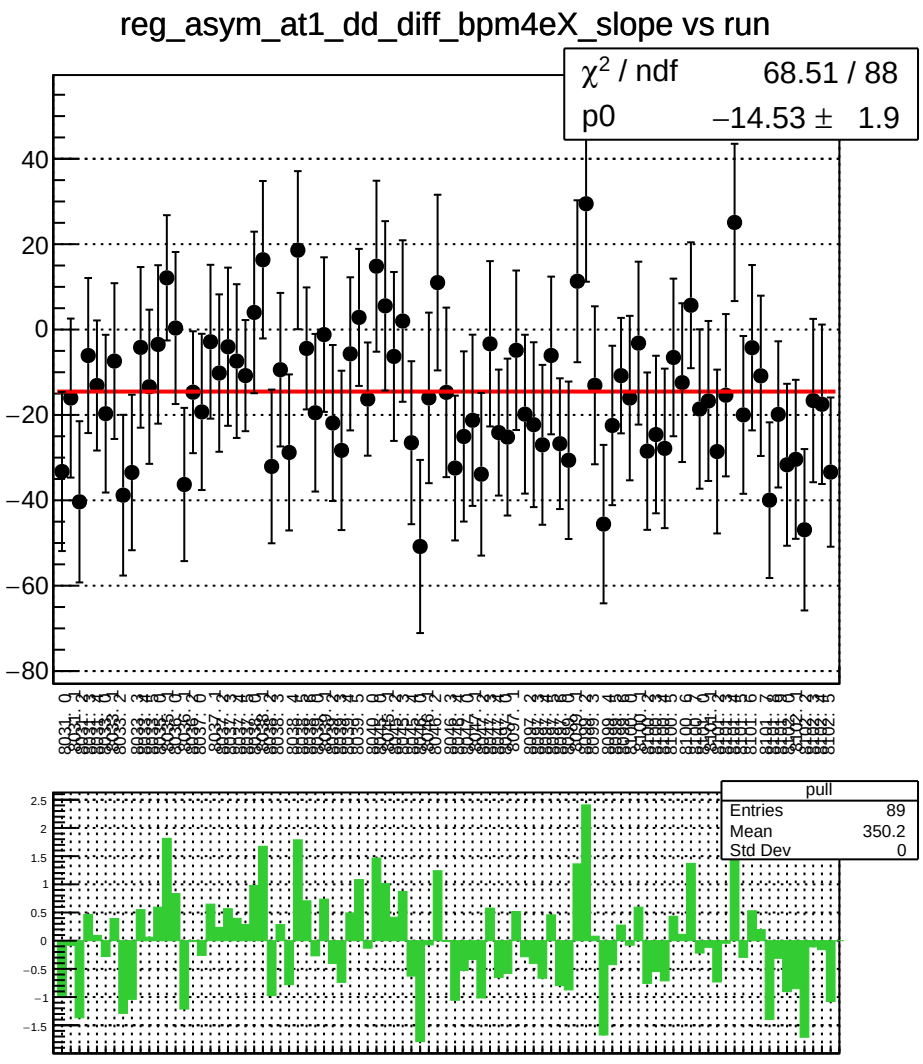

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 1.5e+04 / 88
p0 −1.665 ± 0.1631
pull
Entries 89
Mean −40.79
Std Dev 0
pull1D
Entries 89
Mean 7.952
Std Dev 0

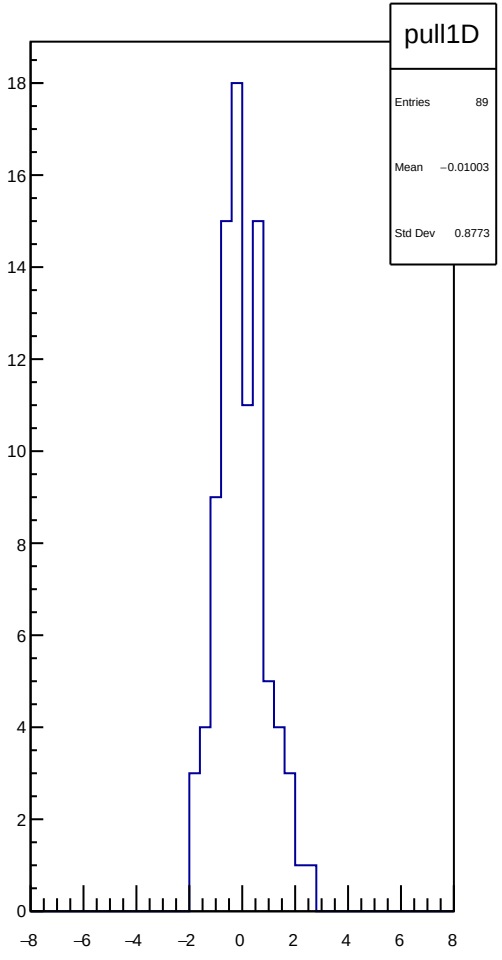

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 62.74 / 88
p0 64.89 ± 1.786
pull
Entries 89
Mean 2186
Std Dev 0

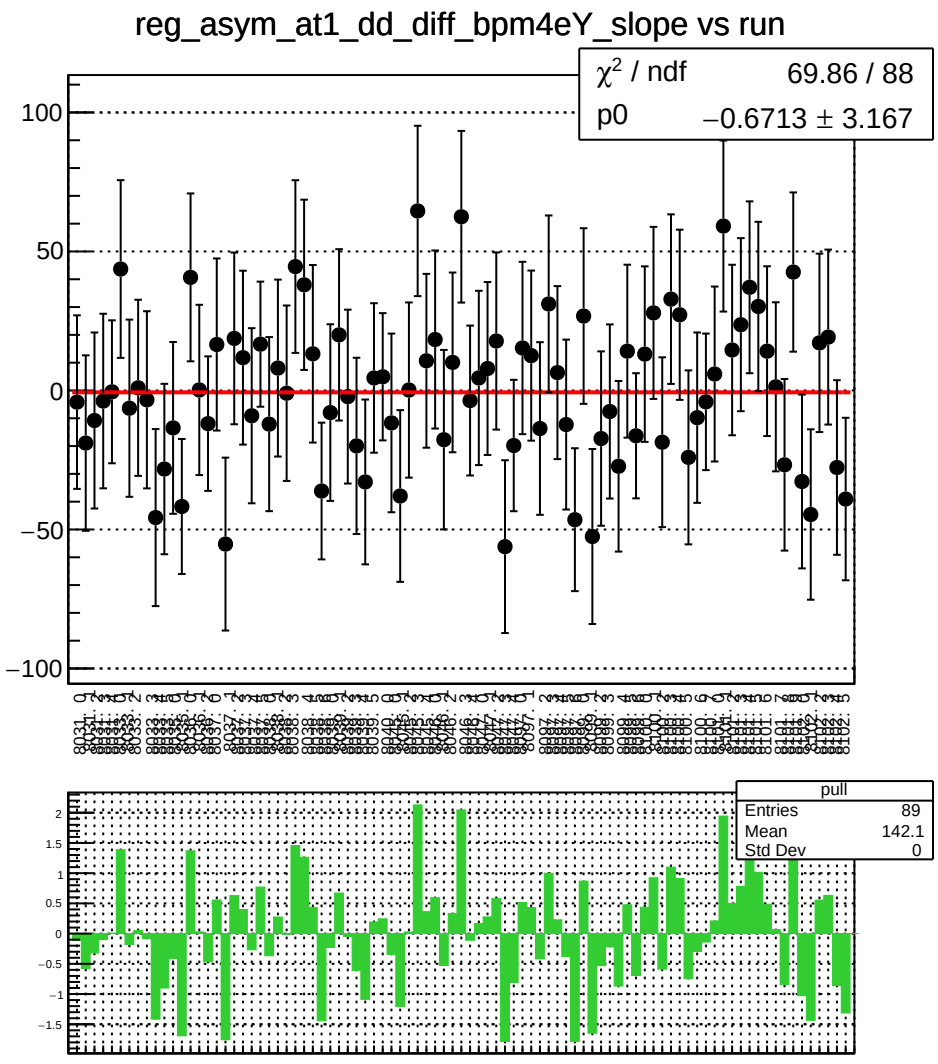

pull1D
Entries 89
Mean −0.001068
Std Dev 0.8396

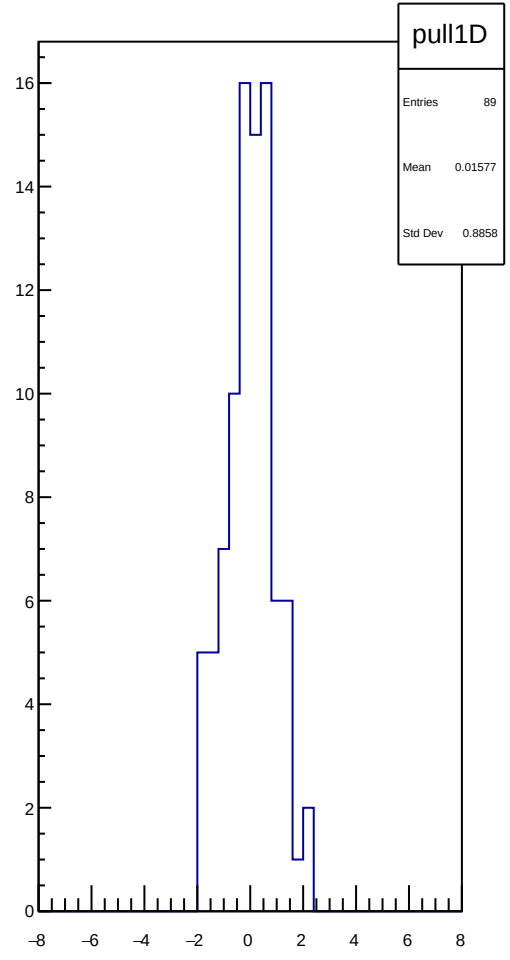

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 71.28 / 88
p0 −7.993 ± 2.982
pull
Entries 89
Mean 111.8
Std Dev 0

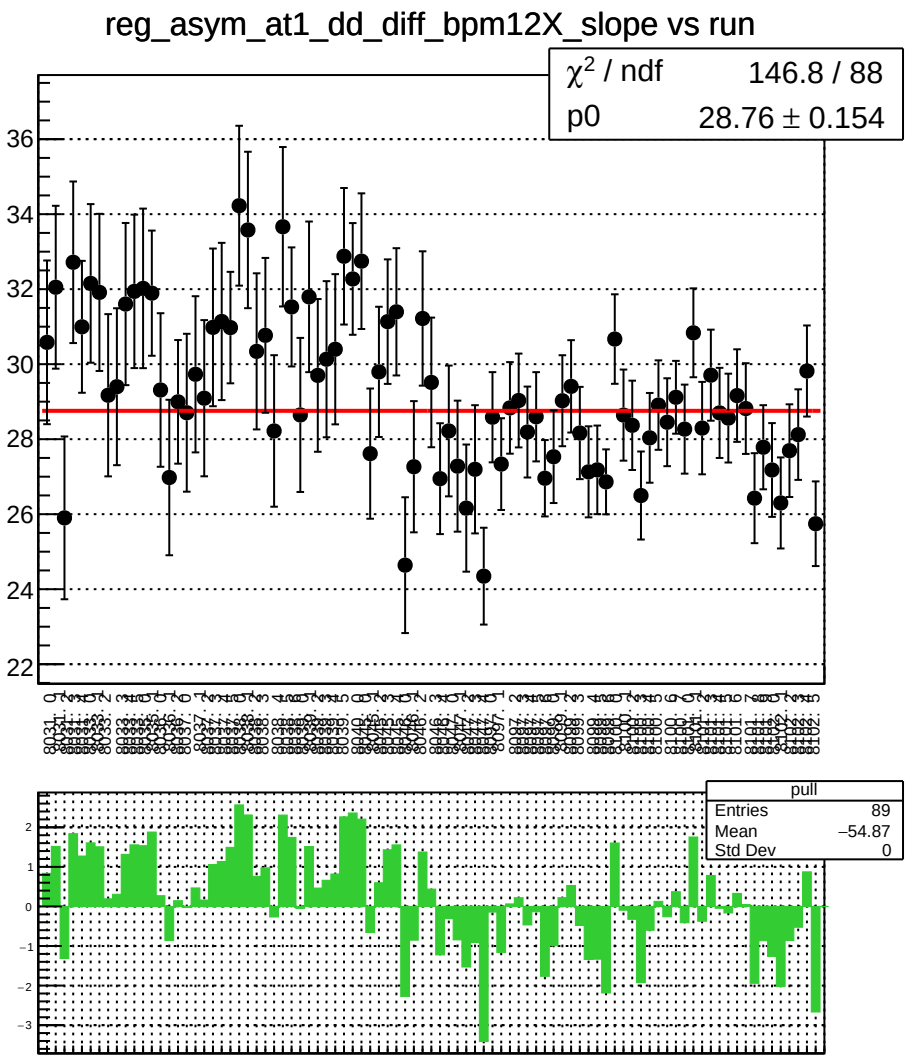

pull1D
Entries 89
Mean −0.01588
Std Dev 0.8948

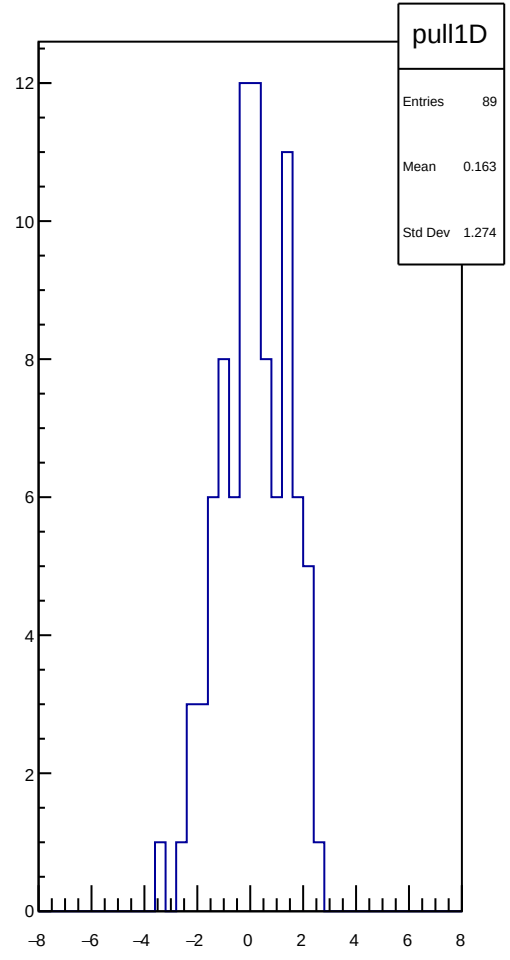

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 68.51 / 88
p0 −14.53 ± 1.9
pull
Entries 89
Mean 350.2
Std Dev 0

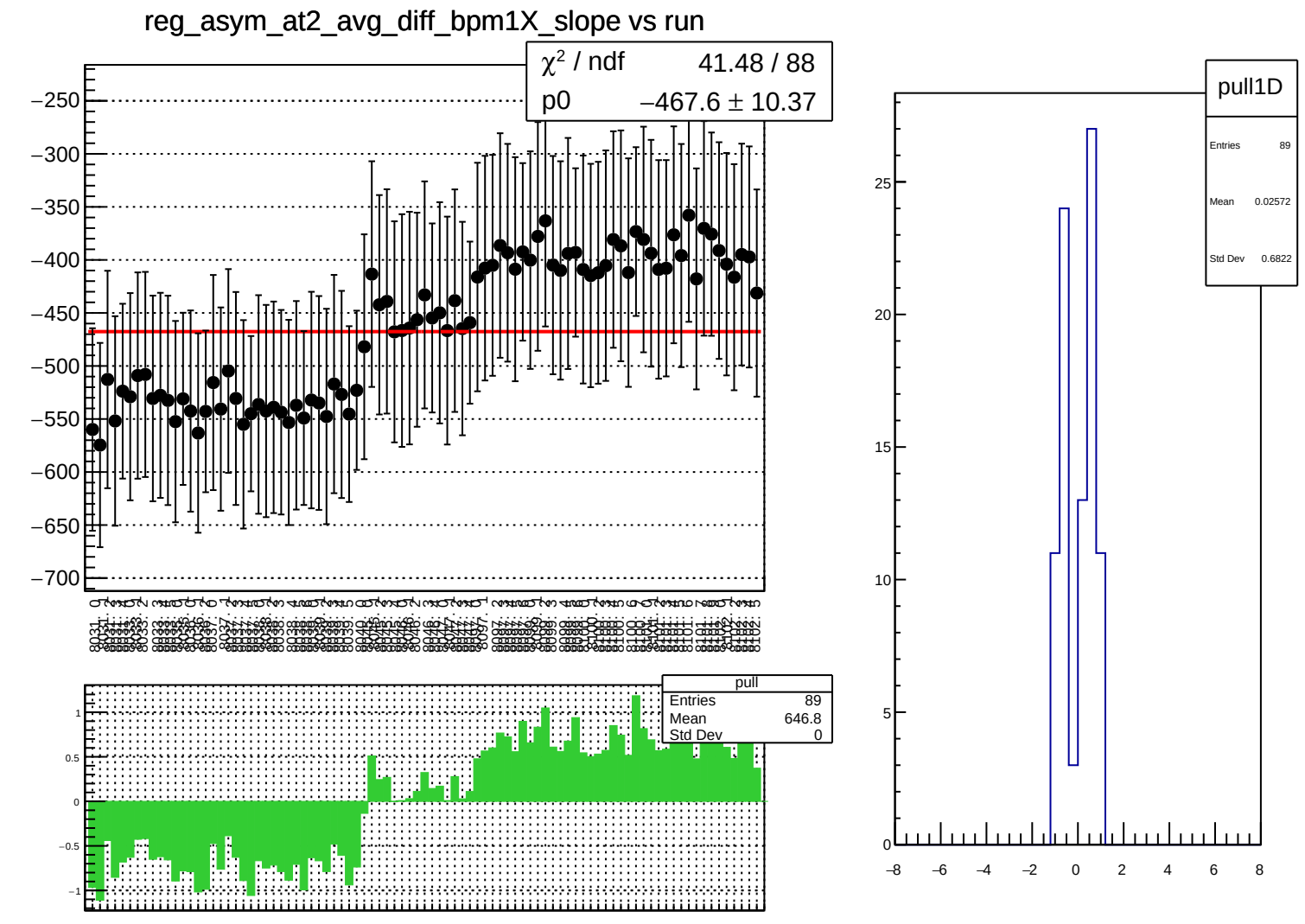

pull1D
Entries 89
Mean −0.01003
Std Dev 0.8773

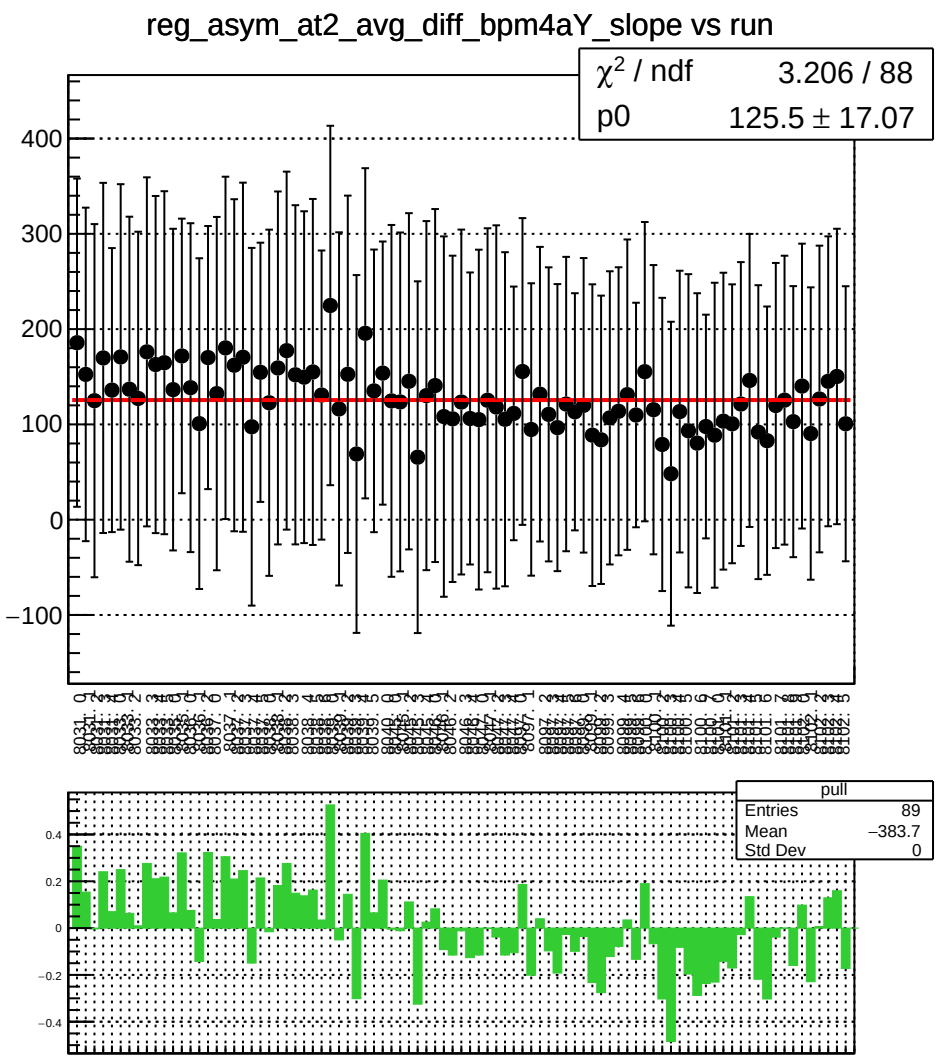

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 69.86 / 88
p0 −0.6713 ± 3.167
100
50
0
−50
−100
pull
Entries 89
Mean 142.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

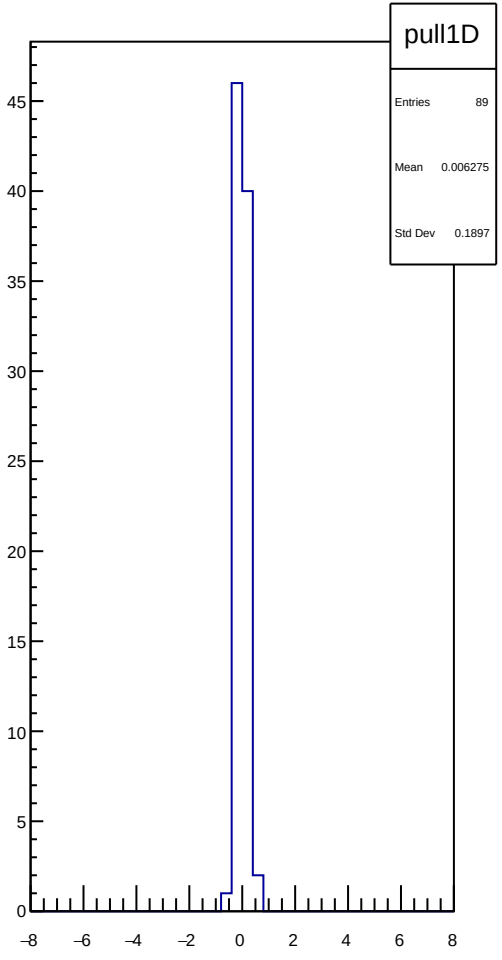

pull1D
Entries 89
Mean 0.01577
Std Dev 0.8858
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

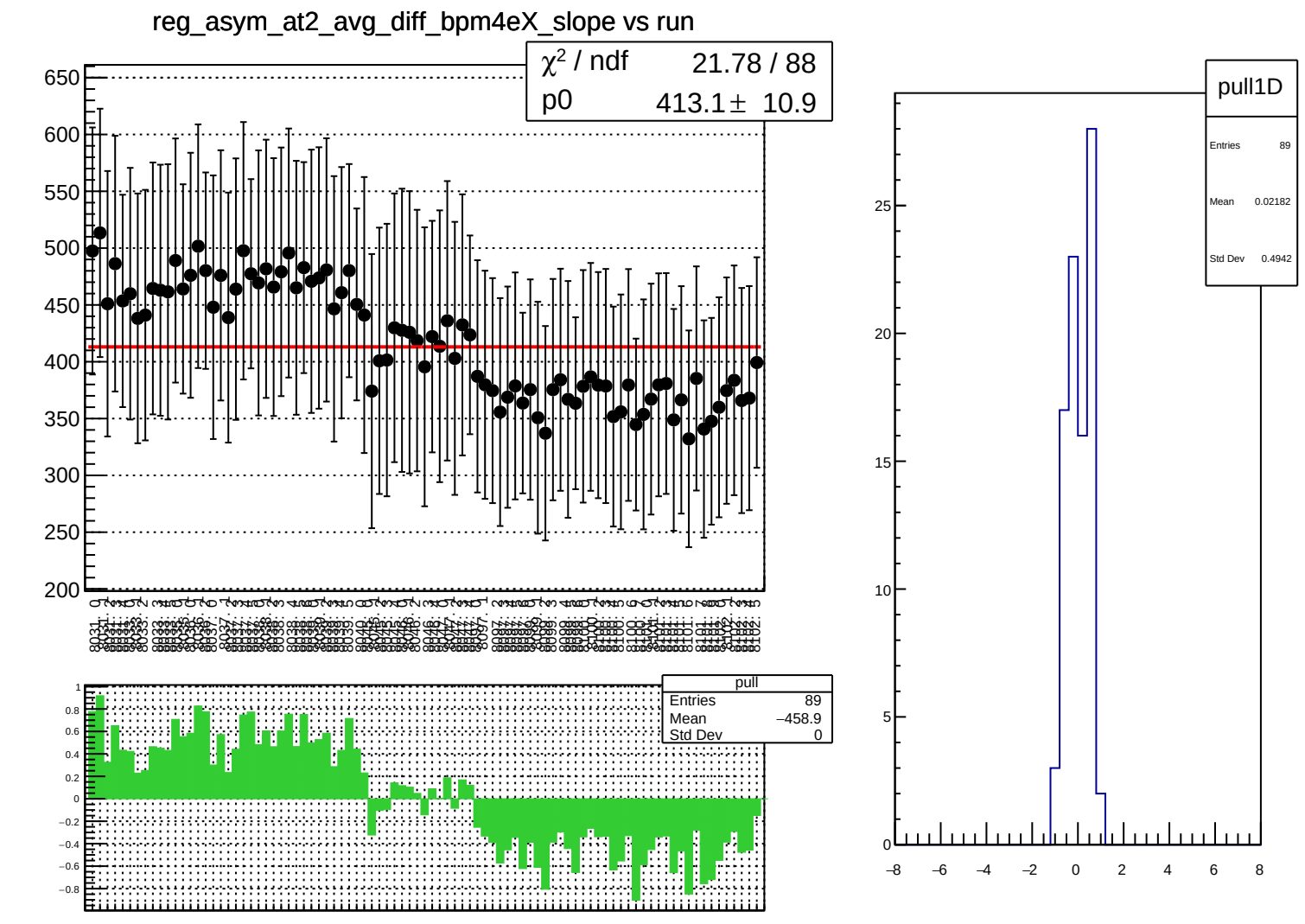

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 146.8 / 88
p0 28.76 ± 0.154
pull
Entries 89
Mean −54.87
Std Dev 0

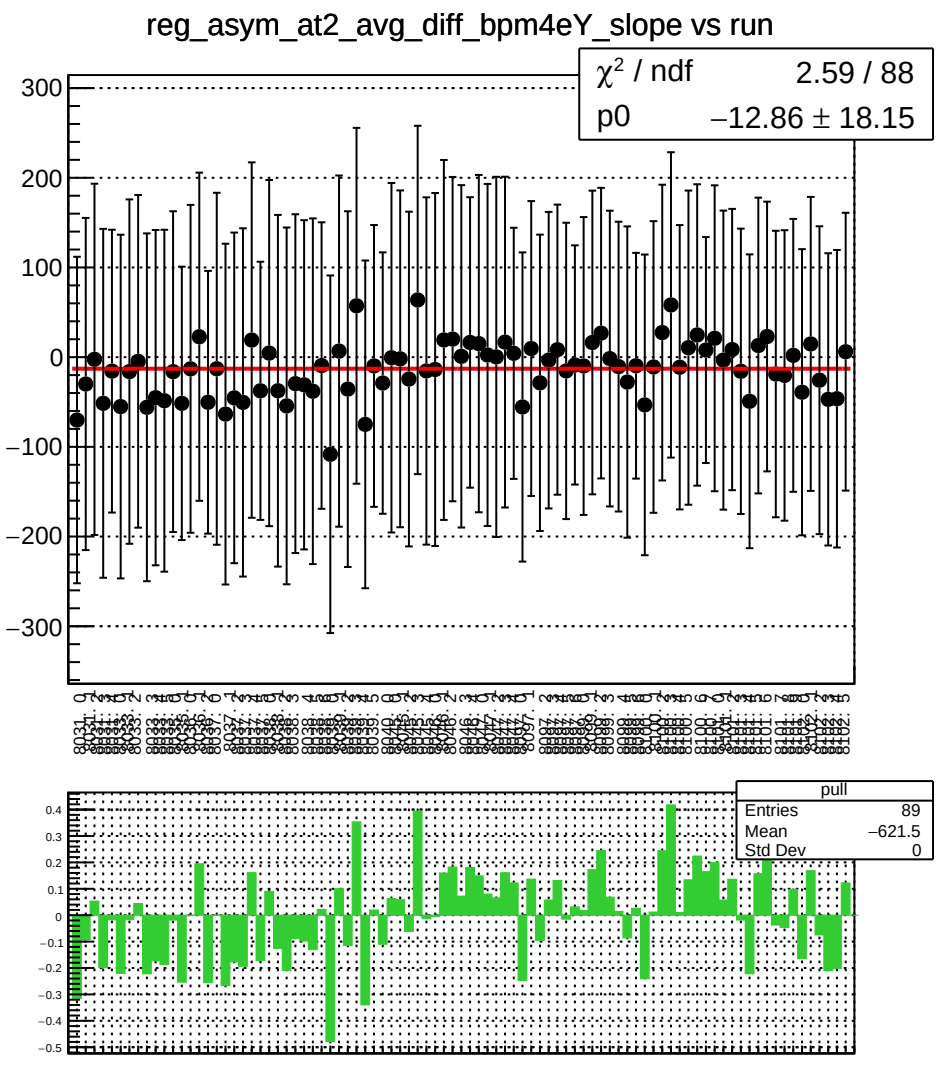

pull1D
Entries 89
Mean 0.163
Std Dev 1.274

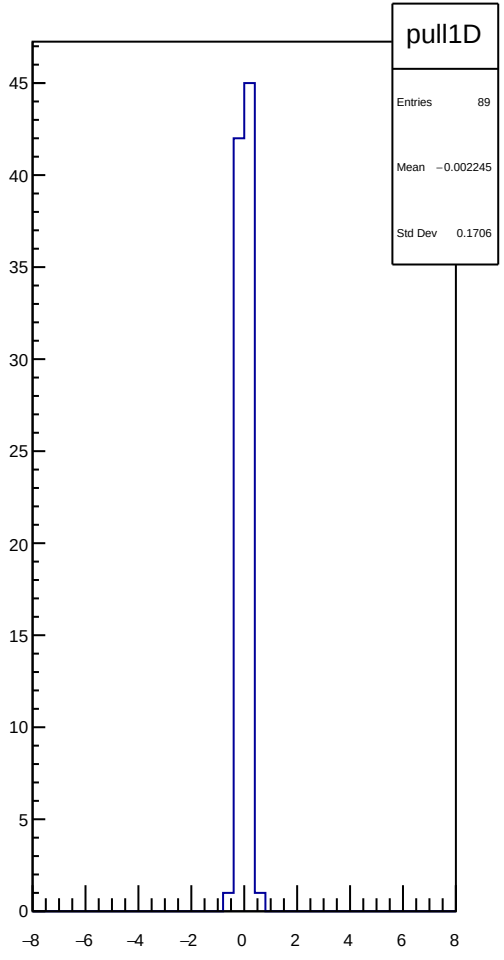

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 41.48 / 88
p0 −467.6 ± 10.37
pull
Entries 89
Mean 646.8
Std Dev 0
pull1D
Entries 89
Mean 0.02572
Std Dev 0.6822

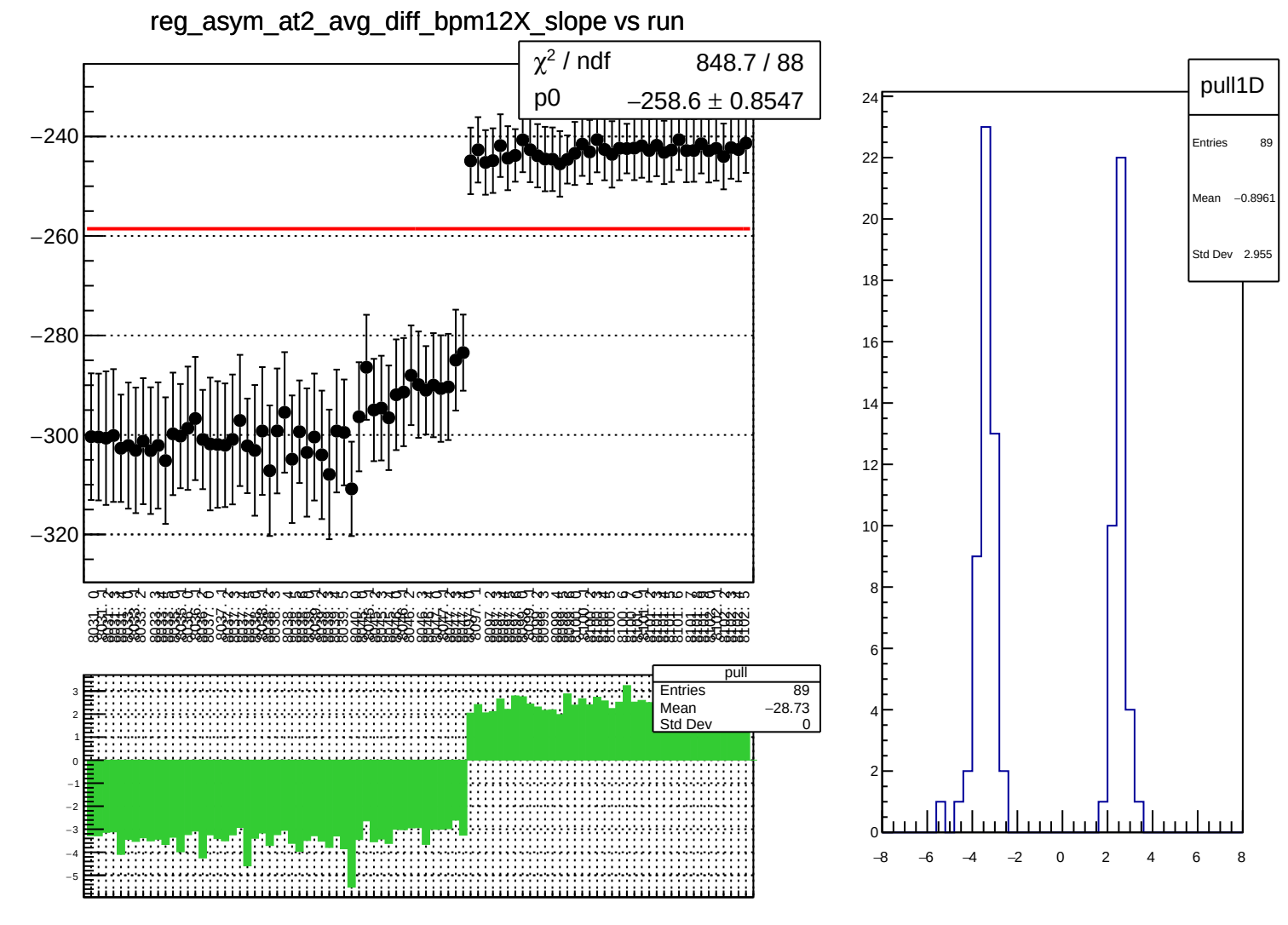

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.206 / 88
p0 125.5 ± 17.07
400
300
200
100
0
−100
pull
Entries 89
Mean −383.7
Std Dev 0
0.4
0.2
0
−0.2
−0.4

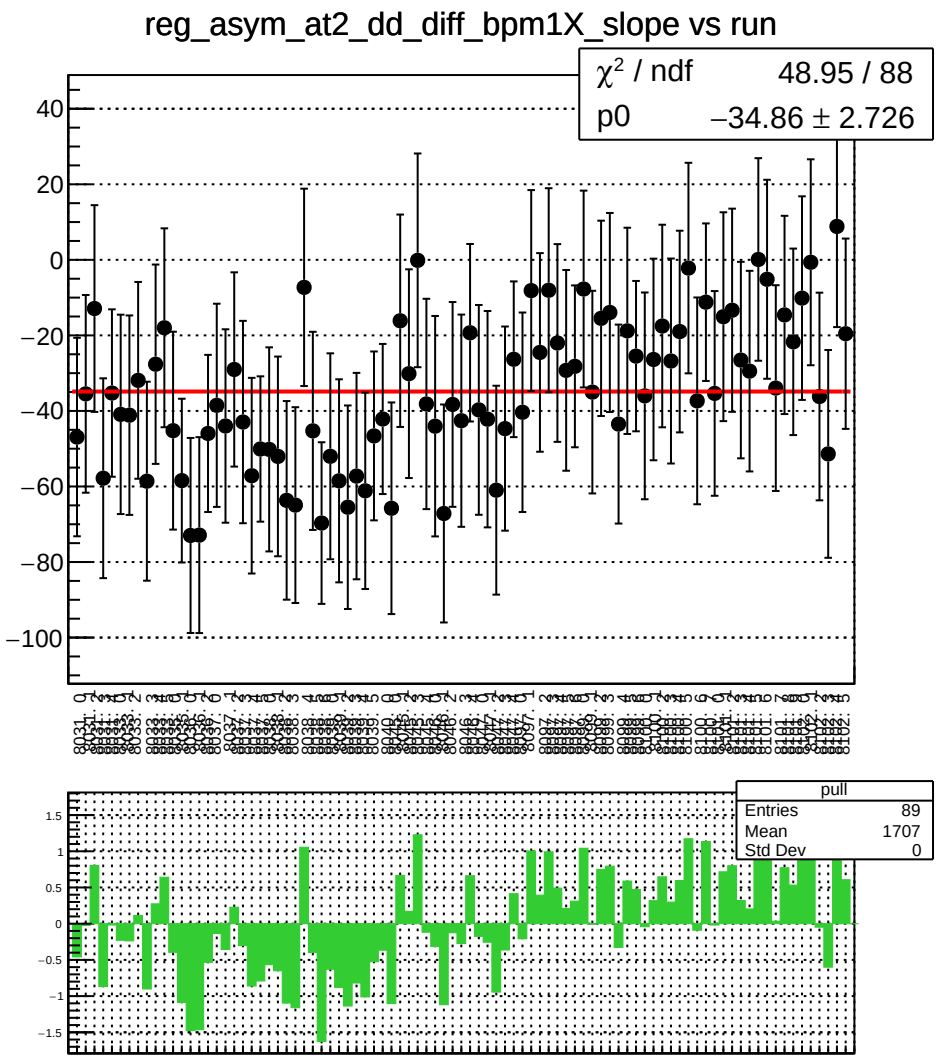

pull1D
Entries 89
Mean 0.006275
Std Dev 0.1897
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

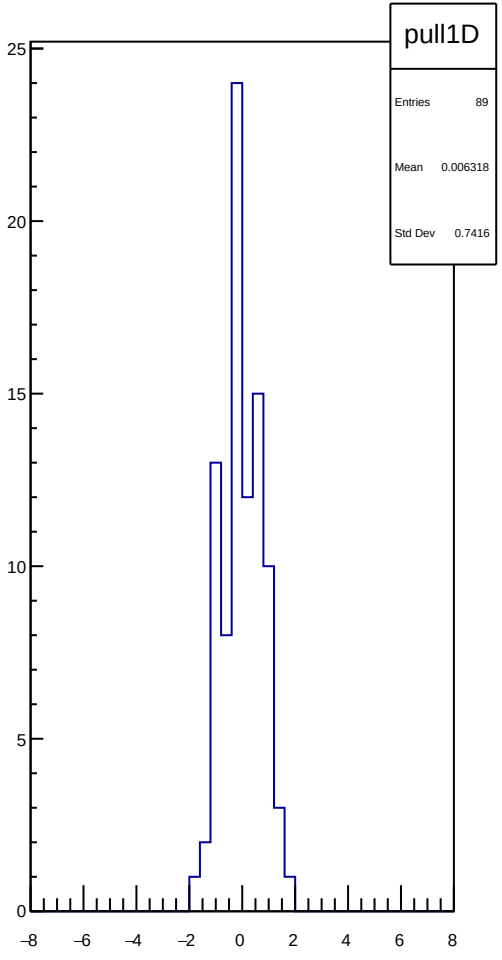

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 21.78 / 88
p0 413.1 ± 10.9
650
600
550
500
450
400
350
300
250
200
pull
Entries 89
Mean −458.9
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 89
Mean 0.02182
Std Dev 0.4942
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

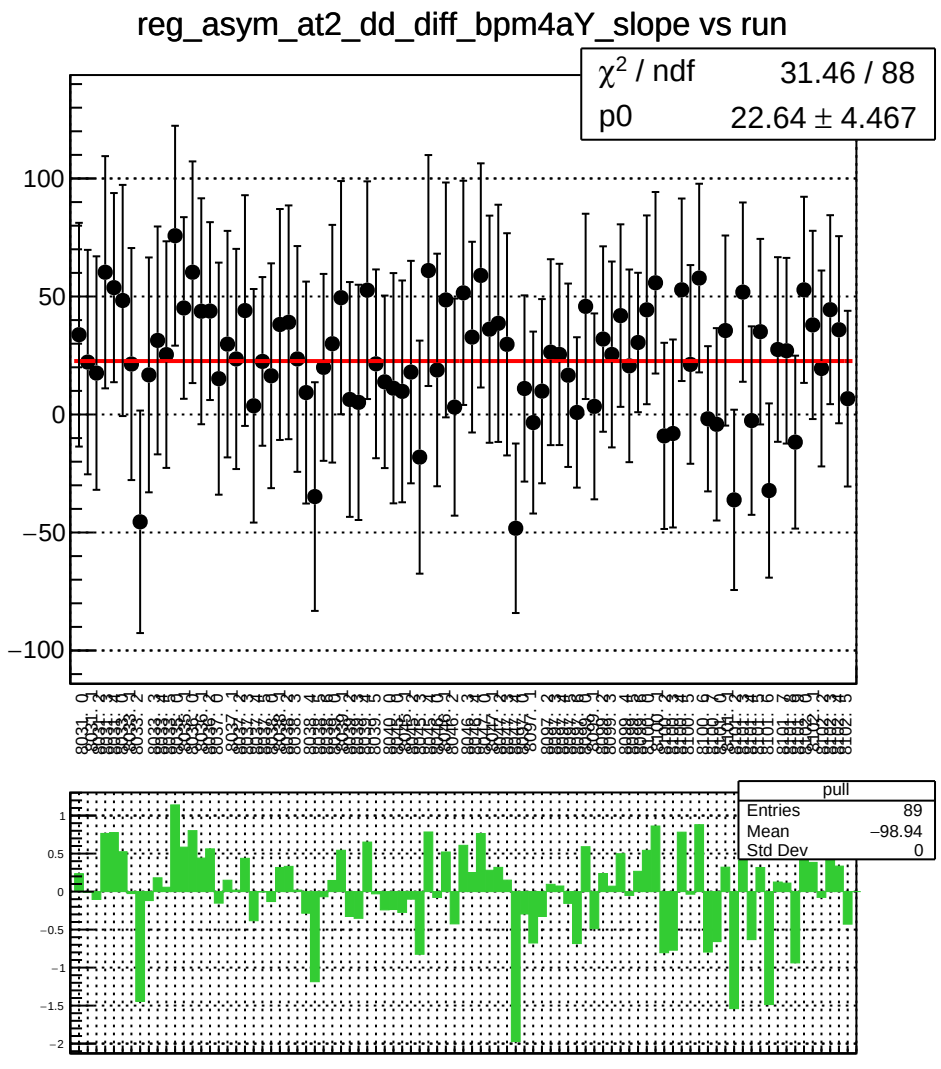

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.59 / 88
p0 −12.86 ± 18.15
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −621.5
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

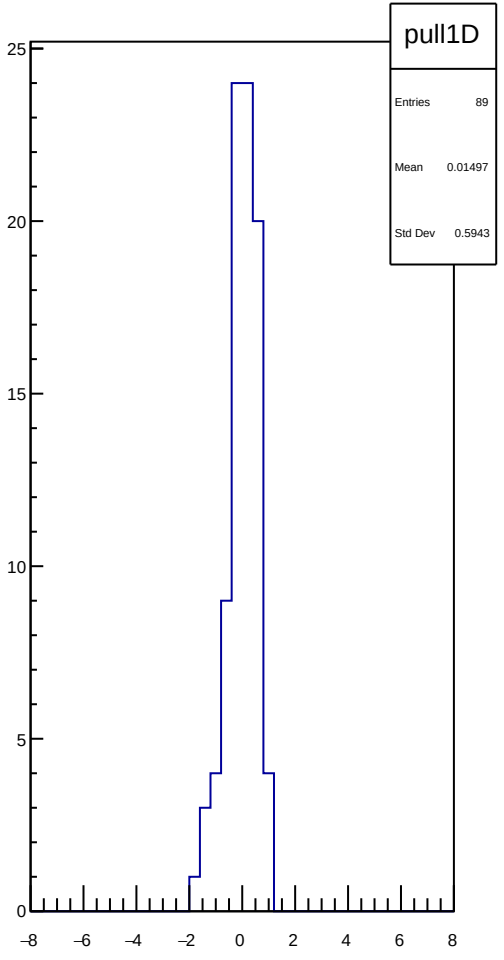

pull1D
Entries 89
Mean −0.002245
Std Dev 0.1706
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

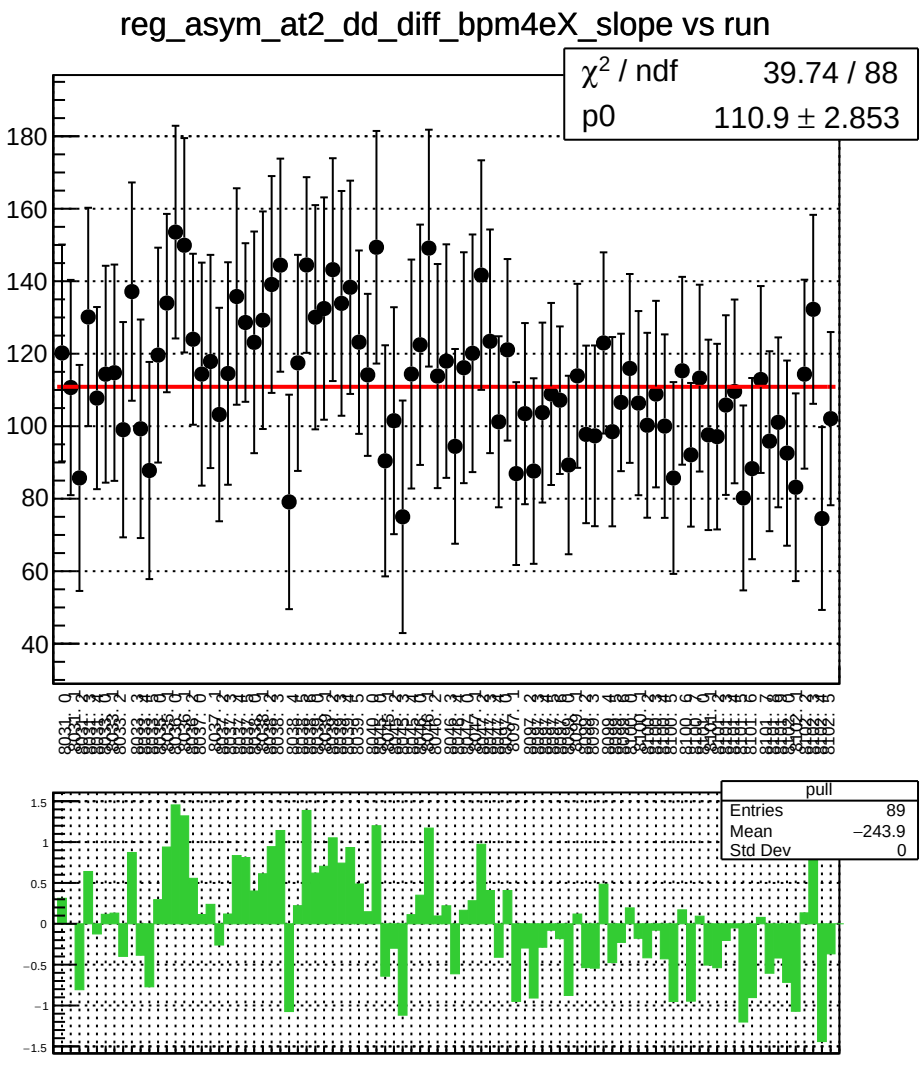

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 848.7 / 88
p0 −258.6 ± 0.8547
−240
−260
−280
−300
−320
pull
Entries 89
Mean −28.73
Std Dev 0
3
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 89
Mean −0.8961
Std Dev 2.955
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

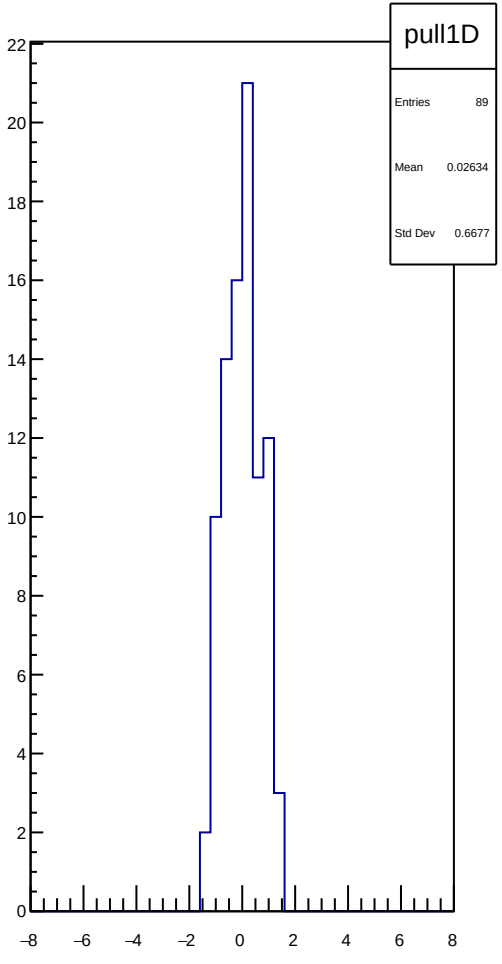

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 48.95 / 88
p0 −34.86 ± 2.726
pull
Entries 89
Mean 1707
Std Dev 0

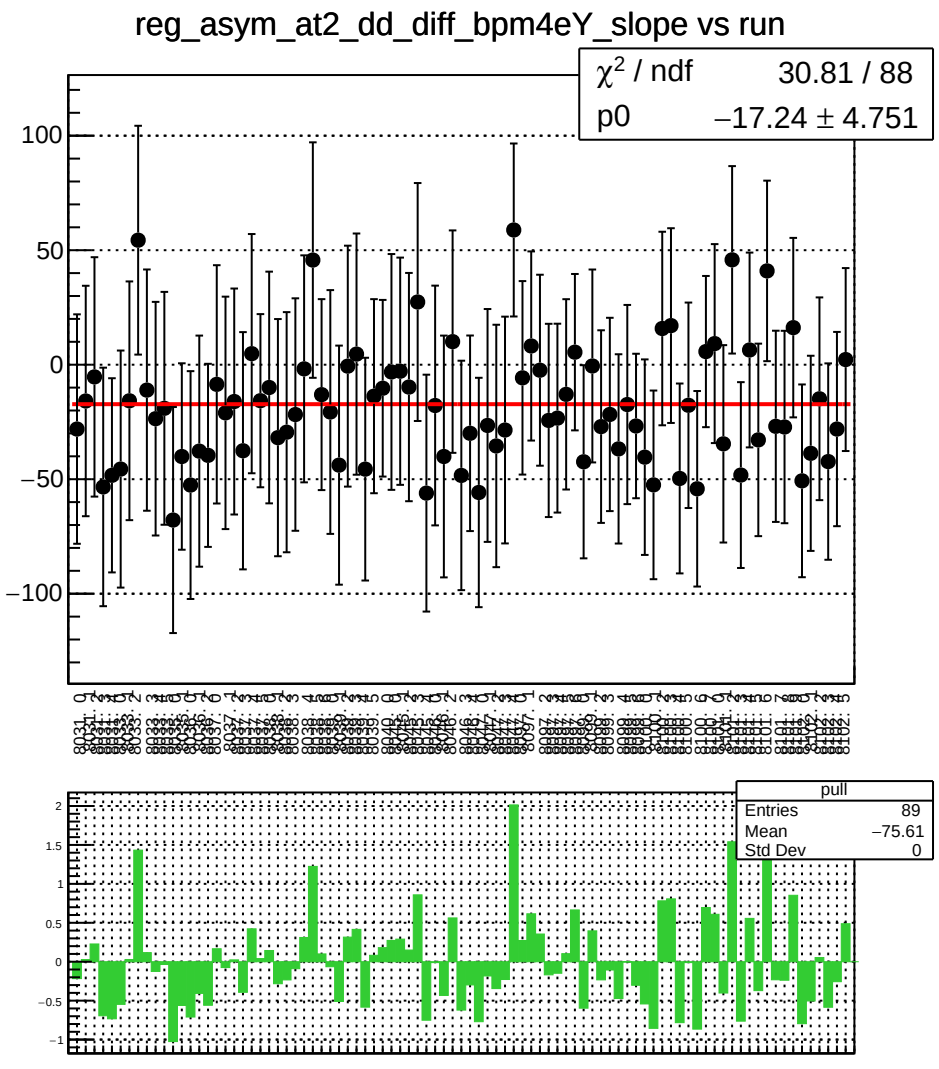

pull1D
Entries 89
Mean 0.006318
Std Dev 0.7416

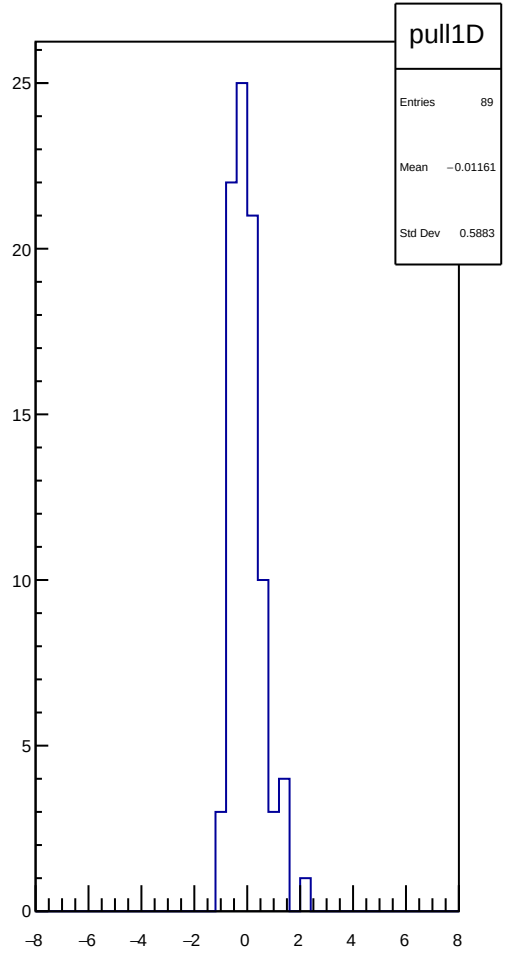

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 31.46 / 88
p0 22.64 ± 4.467
100
50
0
−50
−100
pull
Entries 89
Mean −98.94
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

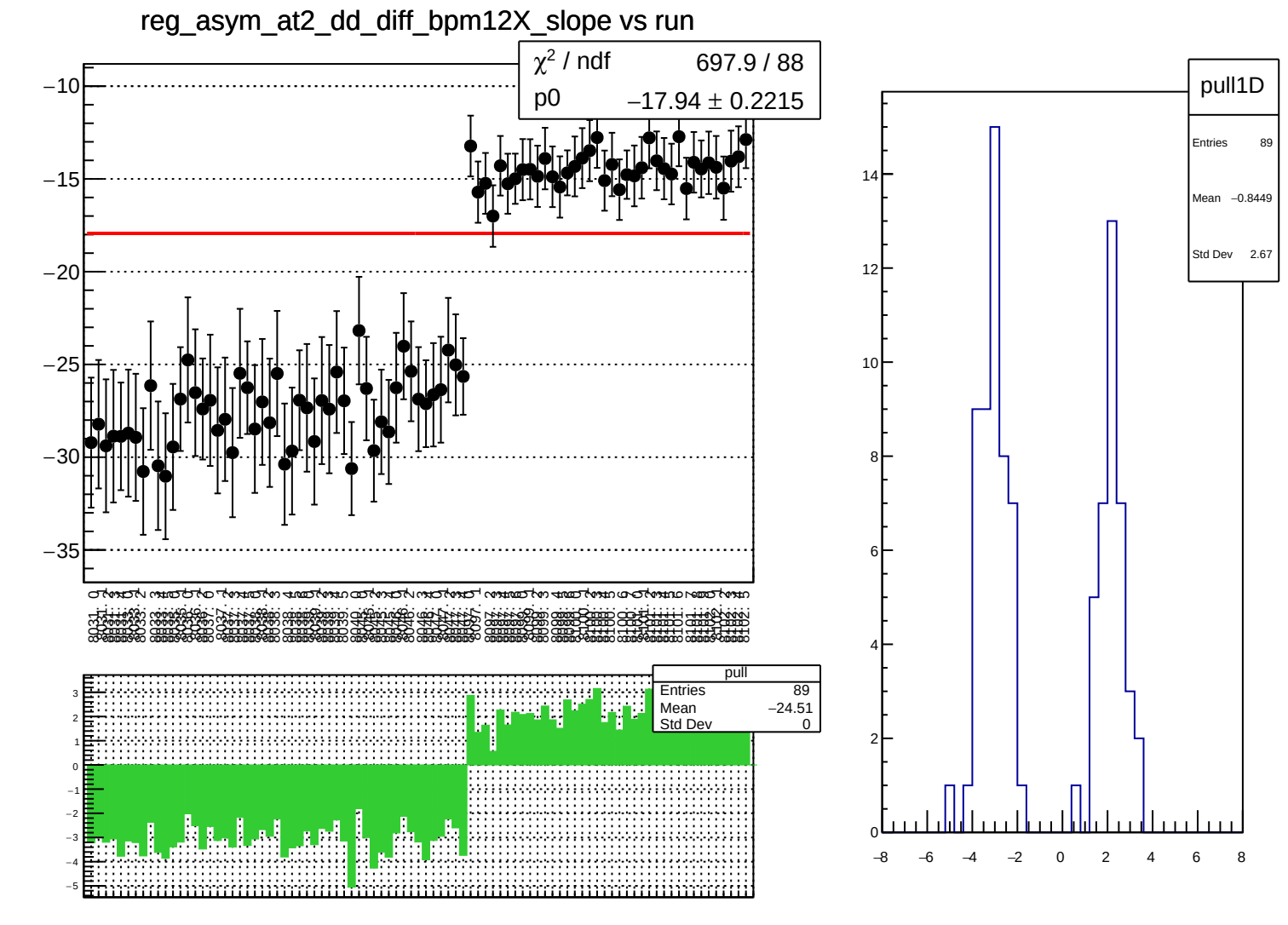

pull1D
Entries 89
Mean 0.01497
Std Dev 0.5943
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

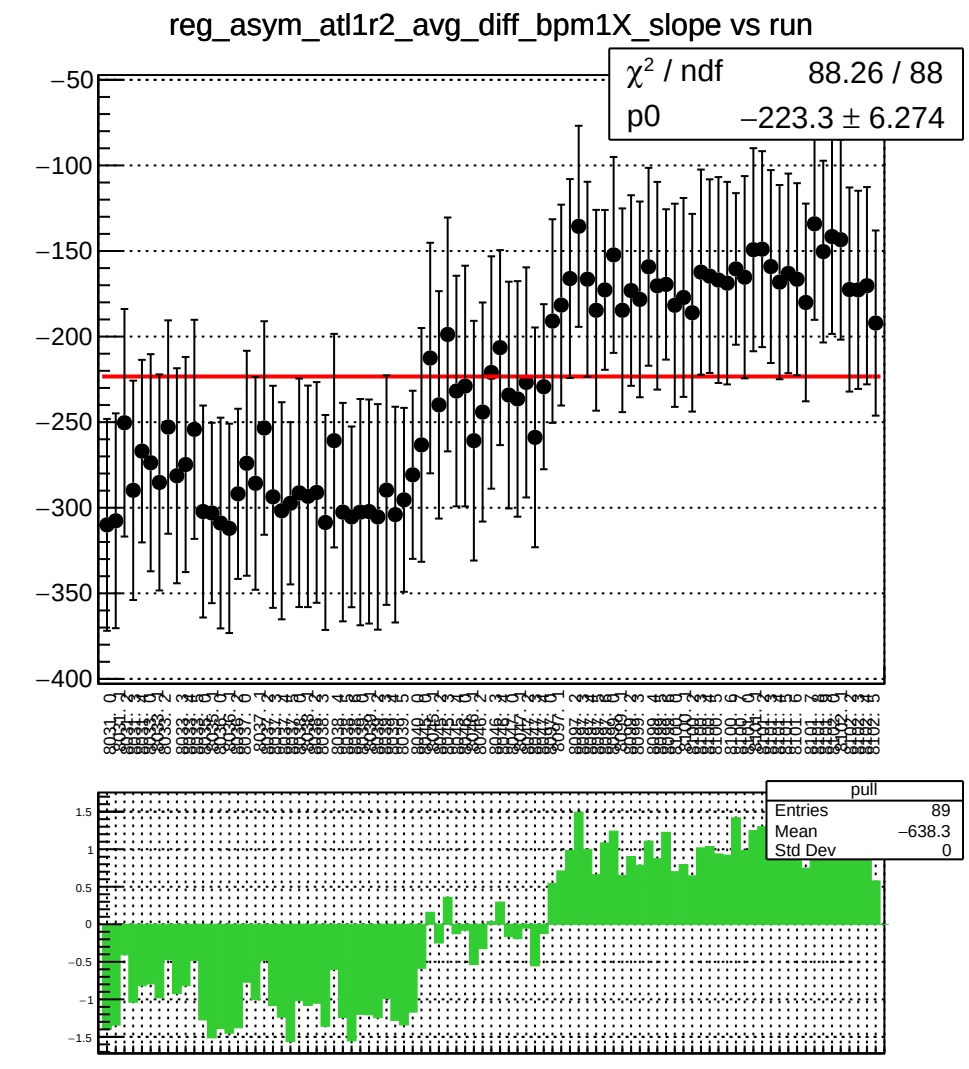

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 39.74 / 88
p0 110.9 ± 2.853
pull
Entries 89
Mean −243.9
Std Dev 0

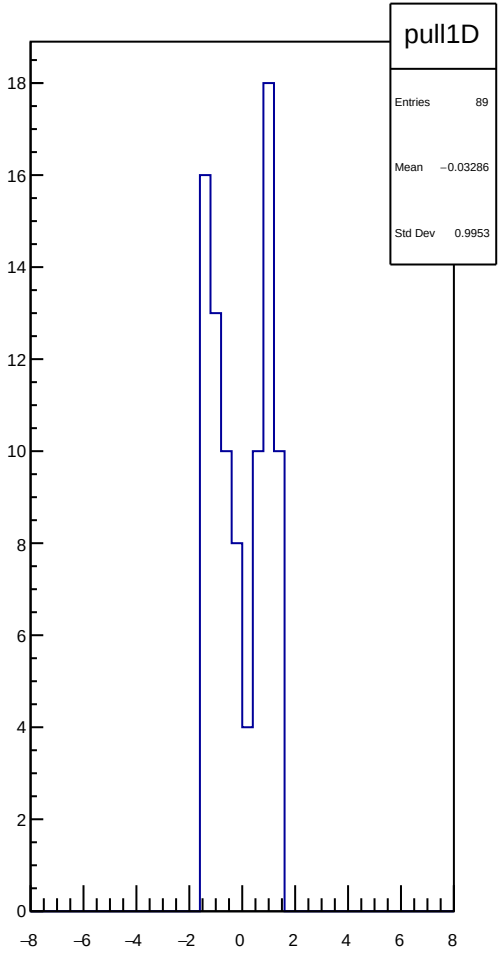

pull1D
Entries 89
Mean 0.02634
Std Dev 0.6677

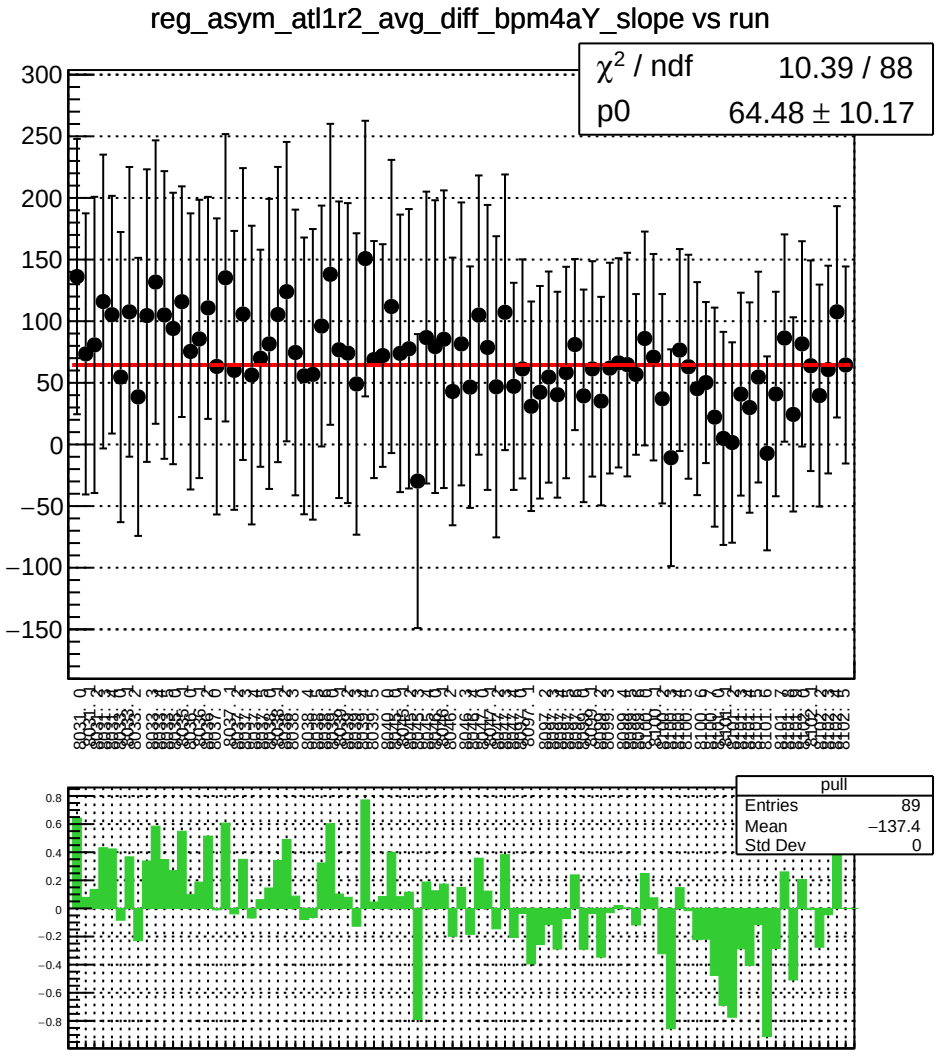

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 30.81 / 88
p0 −17.24 ± 4.751
100
50
0
−50
−100
pull
Entries 89
Mean −75.61
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

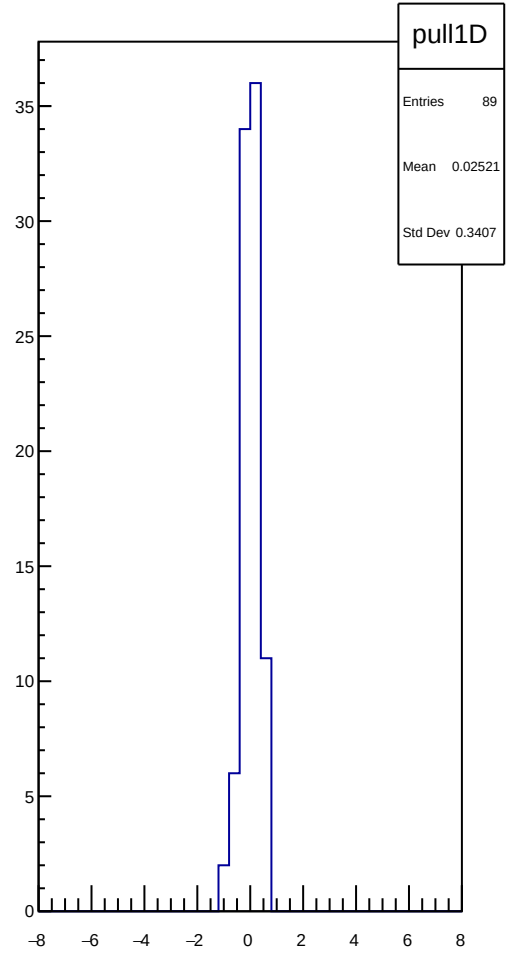

pull1D
Entries 89
Mean −0.01161
Std Dev 0.5883
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

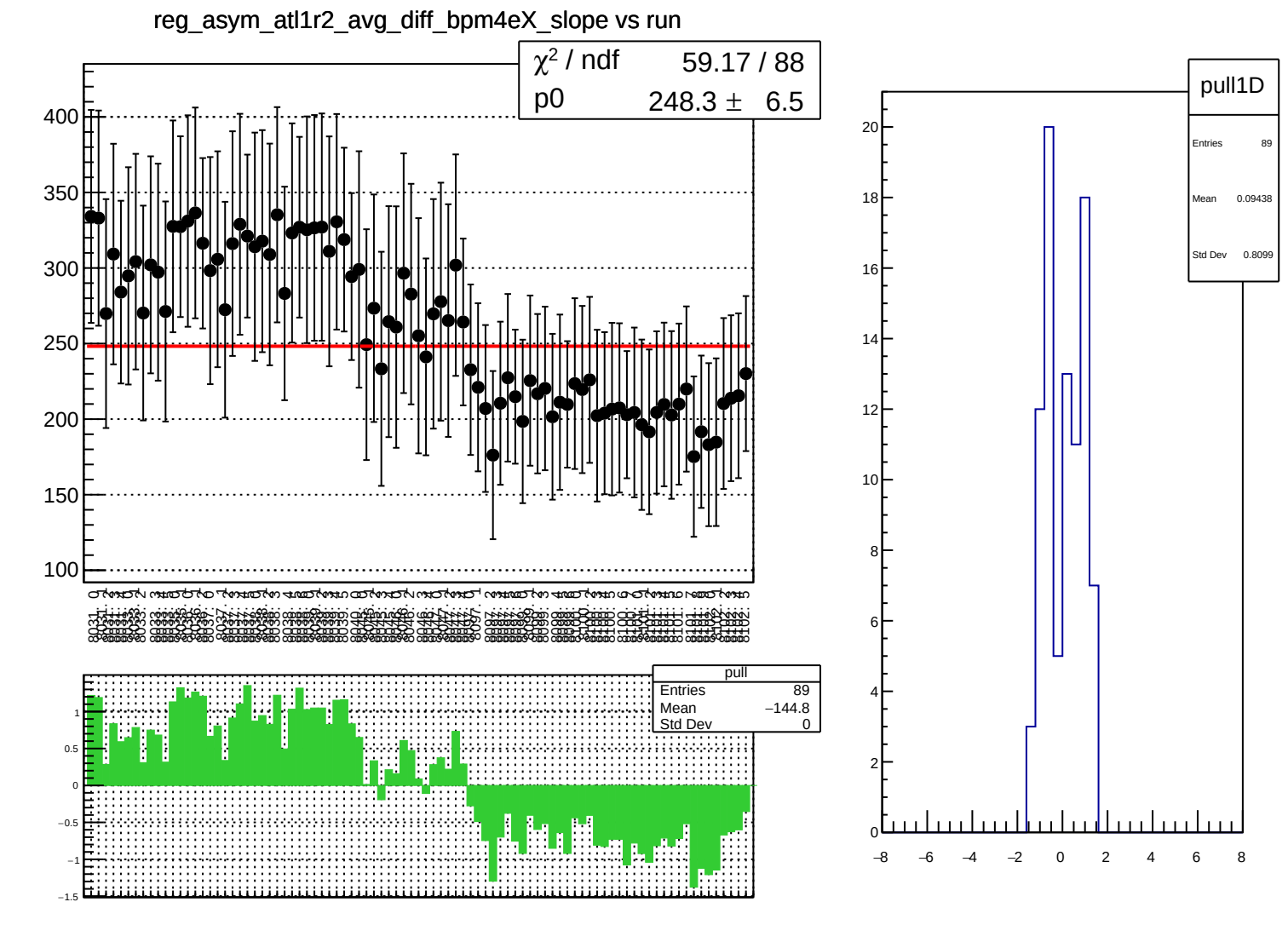

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 697.9 / 88
p0 −17.94 ± 0.2215
pull
Entries 89
Mean −24.51
Std Dev 0
pull1D
Entries 89
Mean −0.8449
Std Dev 2.67

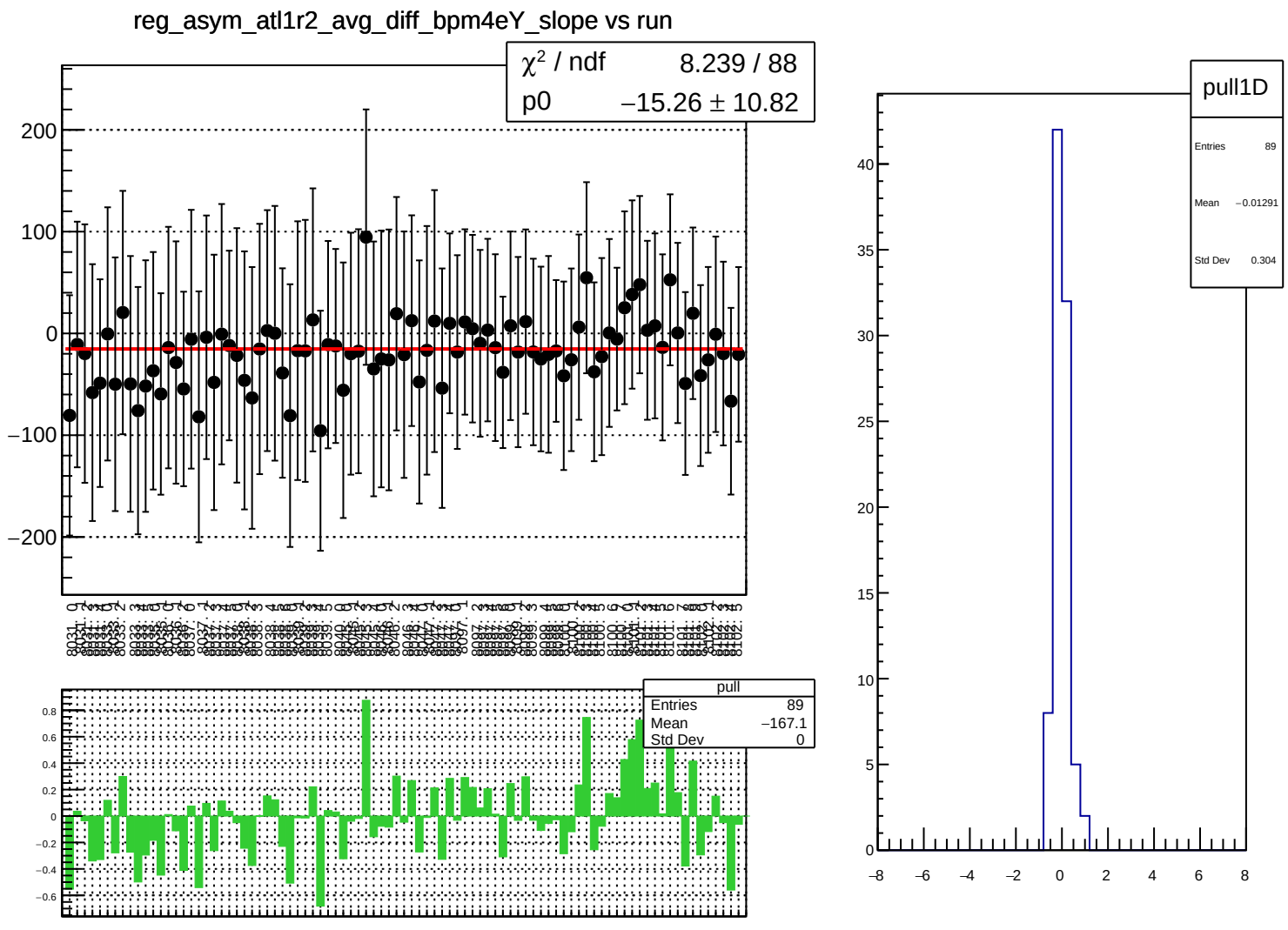

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 88.26 / 88
p0 −223.3 ± 6.274
pull
Entries 89
Mean −638.3
Std Dev 0

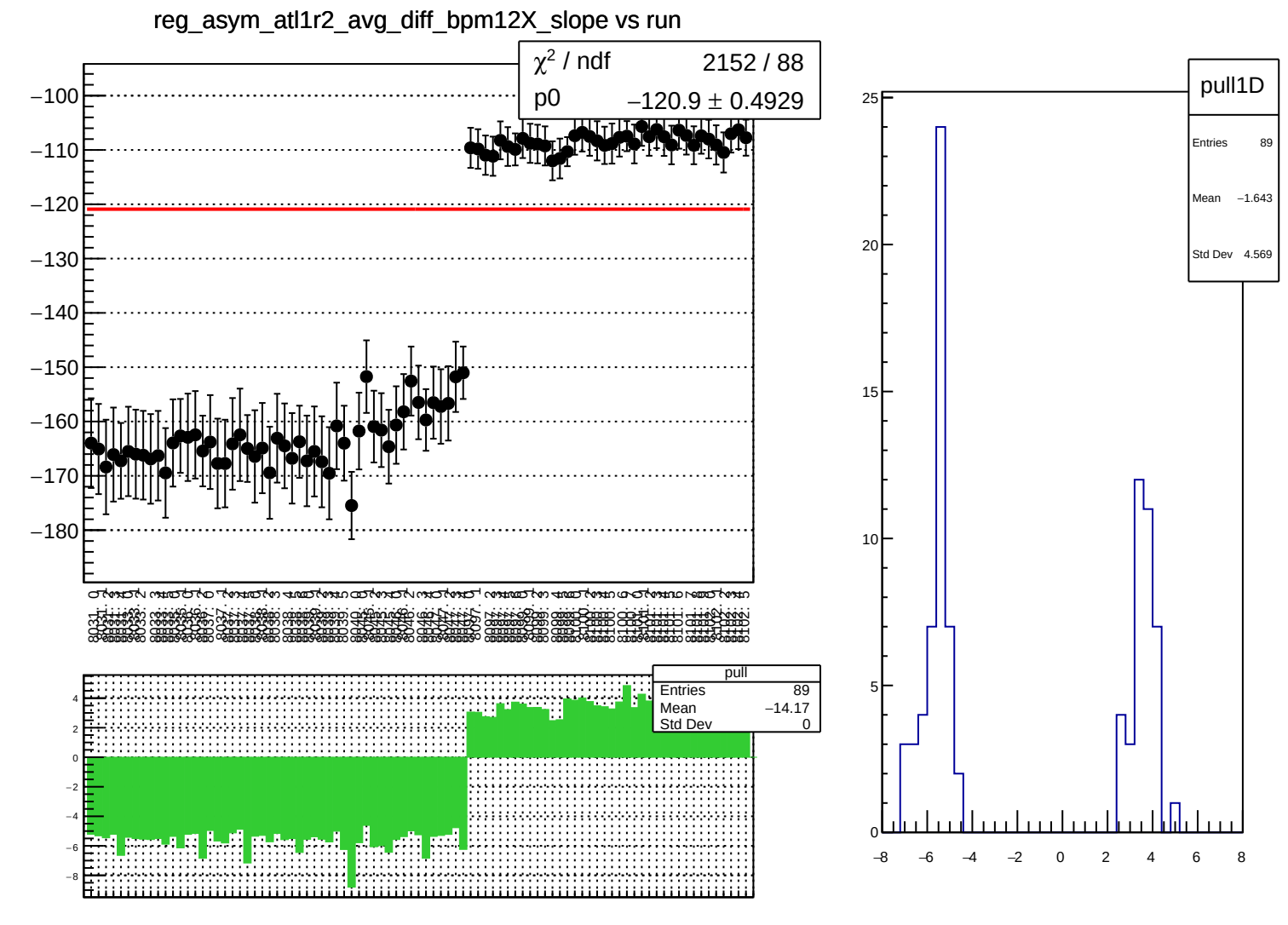

pull1D
Entries 89
Mean −0.03286
Std Dev 0.9953

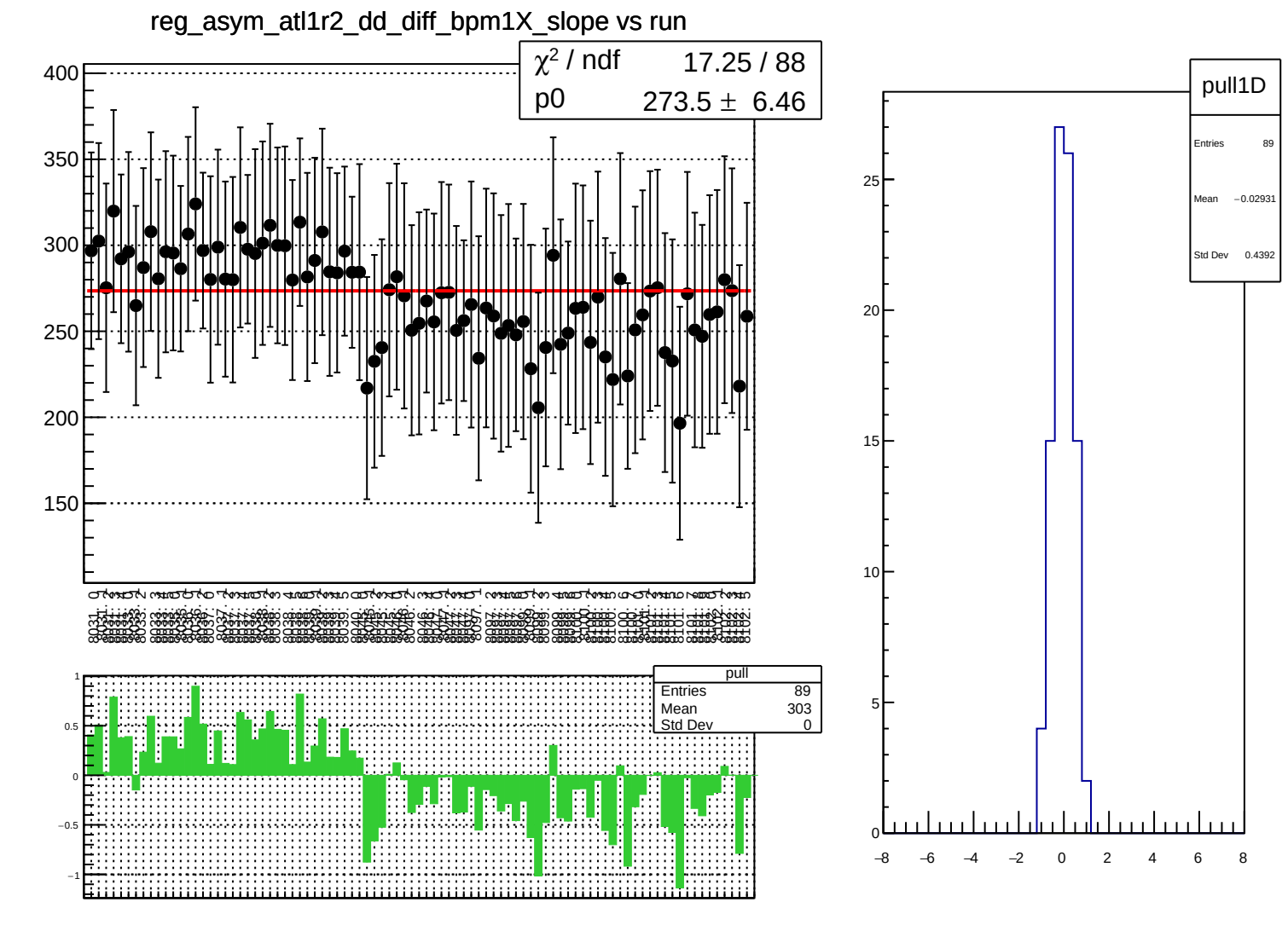

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.39 / 88
p0 64.48 ± 10.17
pull
Entries 89
Mean −137.4
Std Dev 0

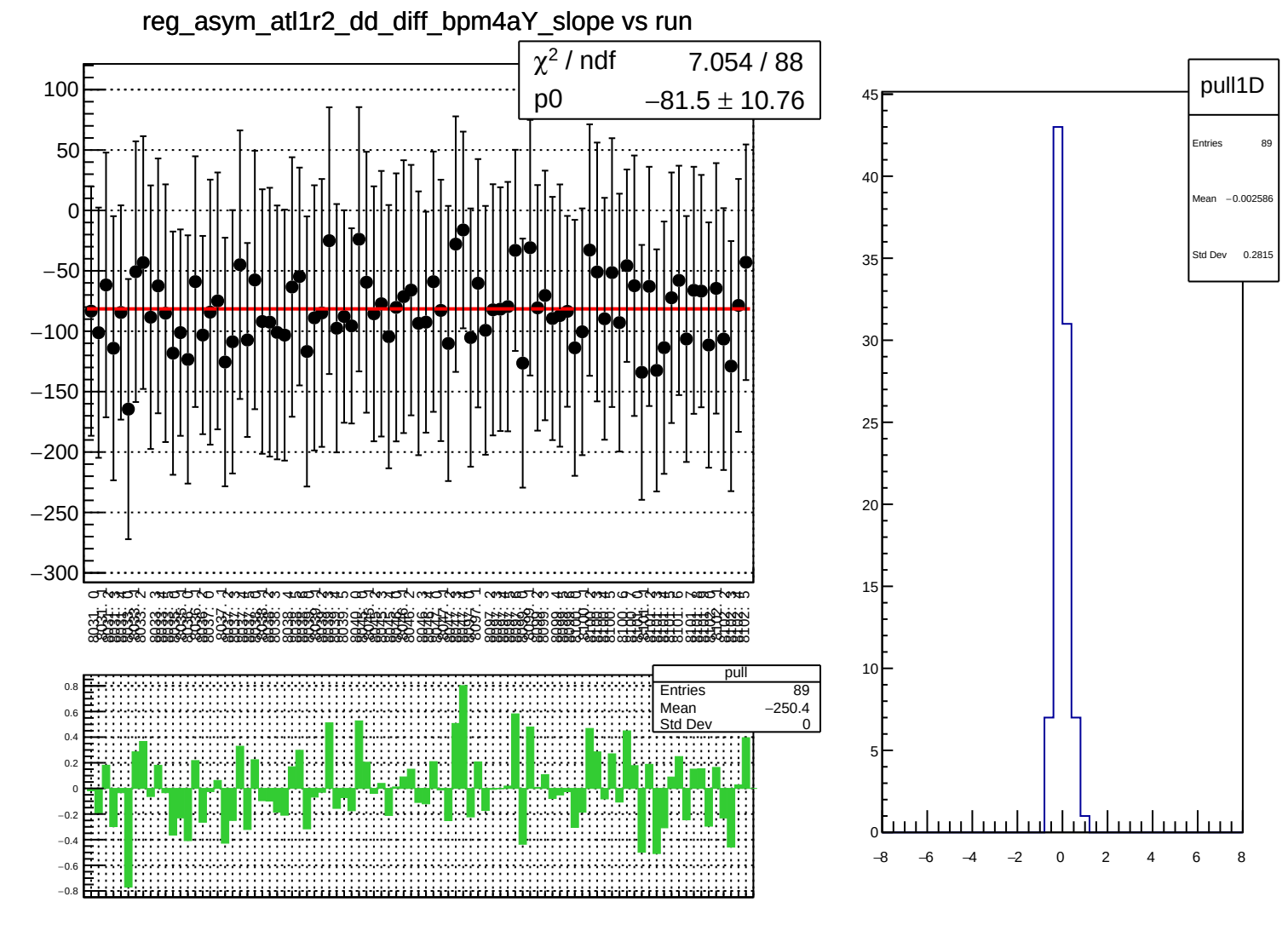

pull1D
Entries 89
Mean 0.02521
Std Dev 0.3407

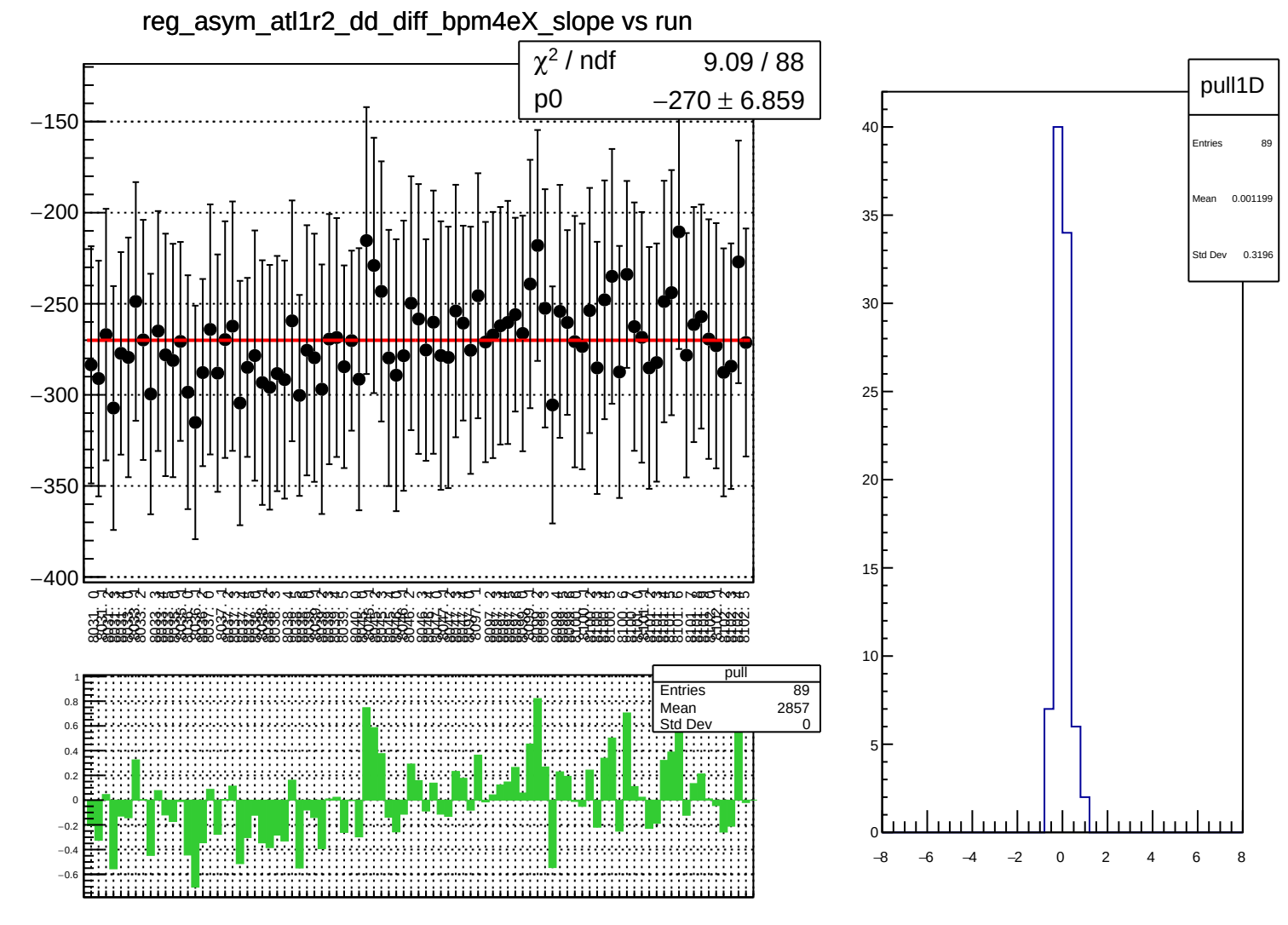

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 59.17 / 88
p0 248.3 ± 6.5
pull
Entries 89
Mean −144.8
Std Dev 0
pull1D
Entries 89
Mean 0.09438
Std Dev 0.8099

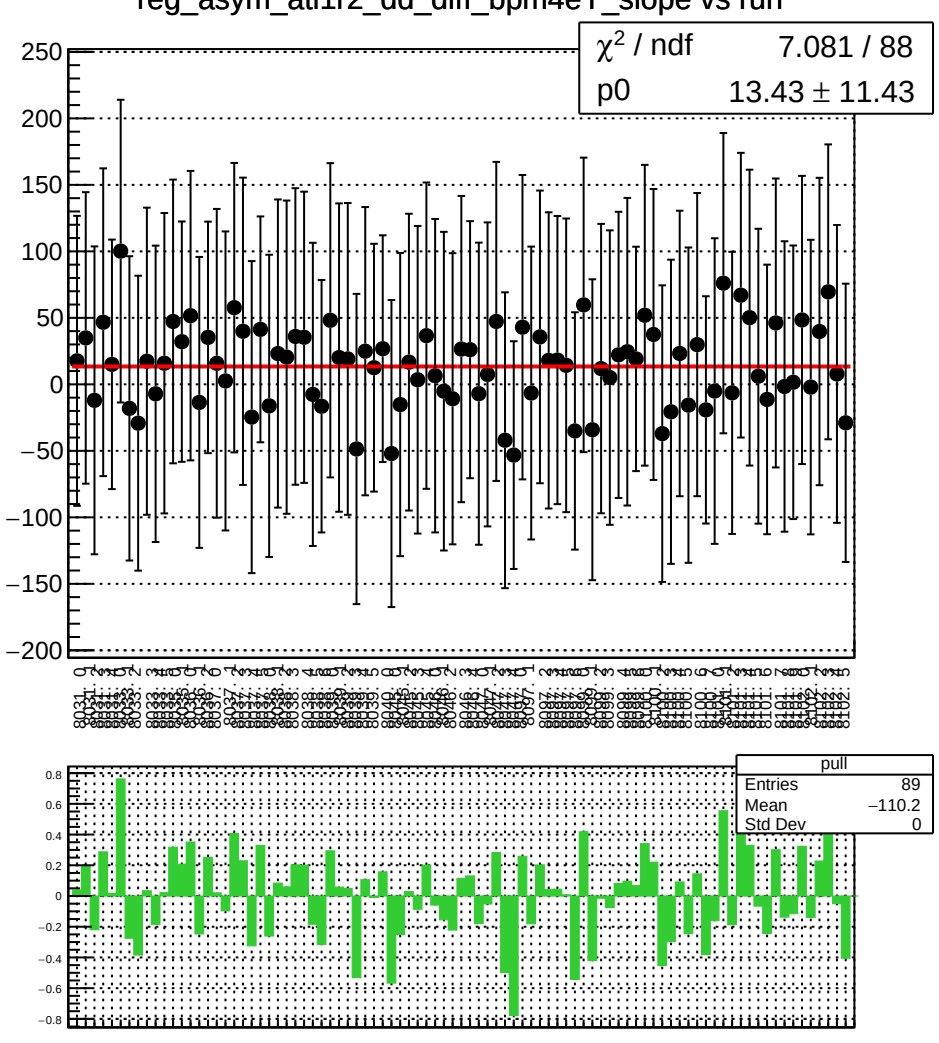

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.239 / 88
p0 −15.26 ± 10.82
200
100
0
−100
−200
pull
Entries 89
Mean −167.1
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 89
Mean −0.01291
Std Dev 0.304
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

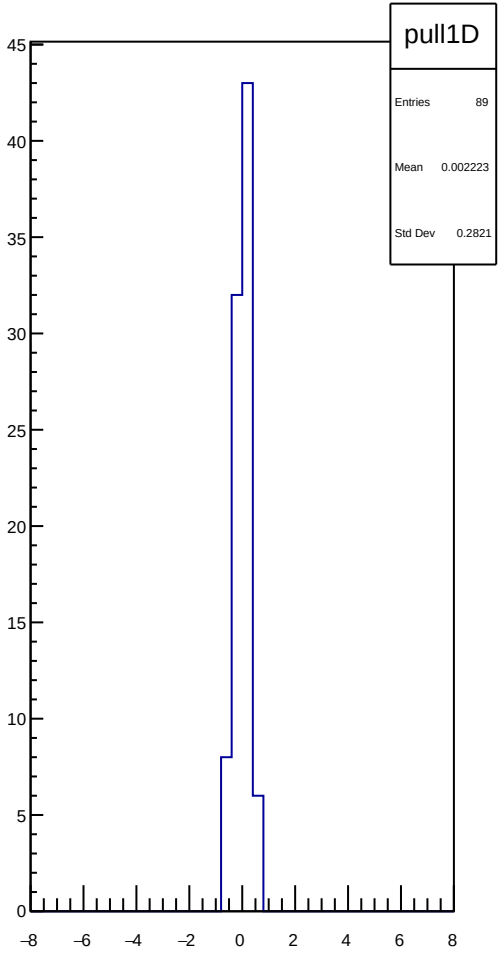

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 2152 / 88
p0 −120.9 ± 0.4929
pull
Entries 89
Mean −14.17
Std Dev 0
pull1D
Entries 89
Mean −1.643
Std Dev 4.569

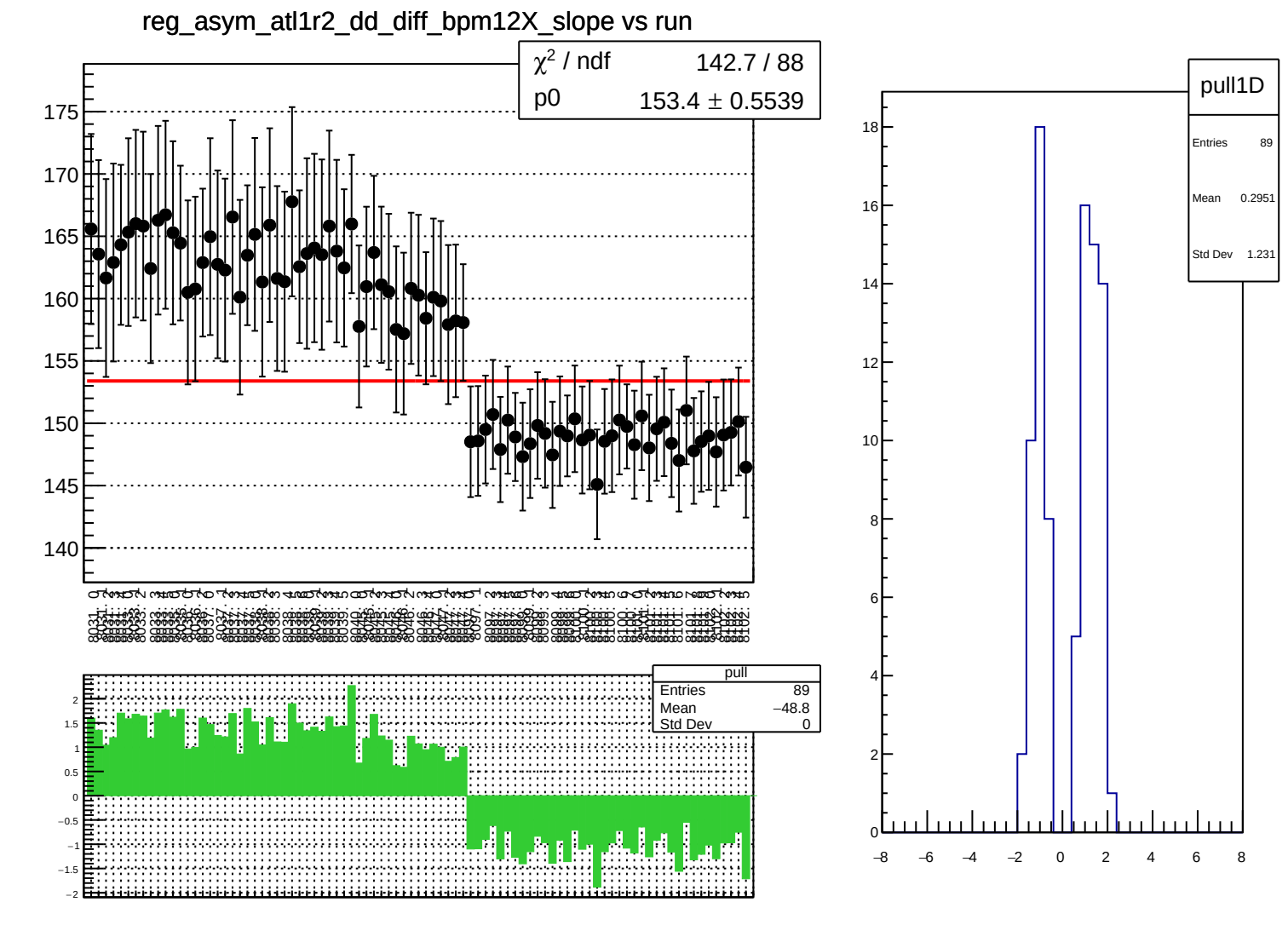

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 17.25 / 88
p0 273.5 ± 6.46
400
350
300
250
200
150
pull
Entries 89
Mean 303
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean −0.02931
Std Dev 0.4392
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

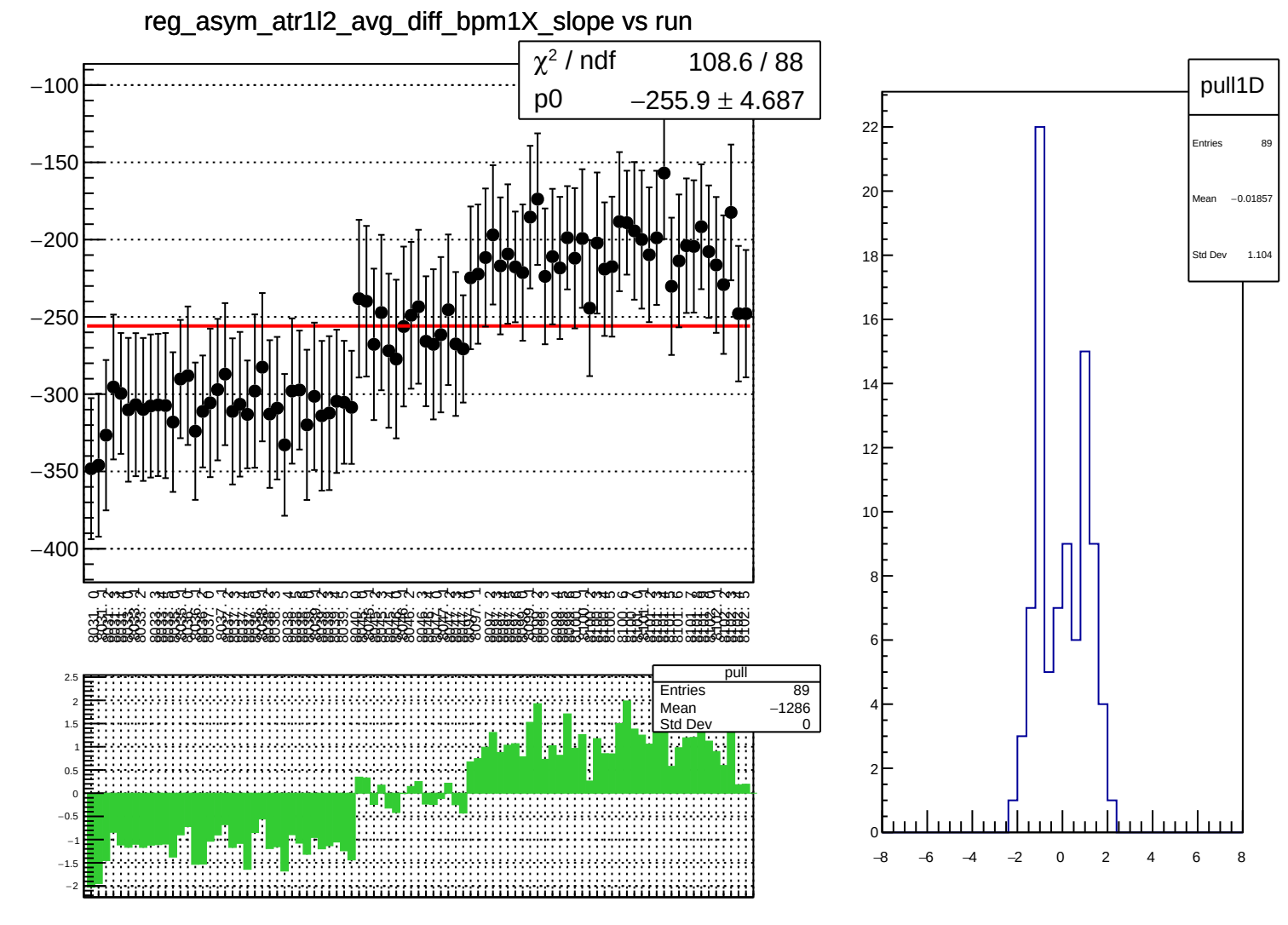

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.054 / 88
p0 −81.5 ± 10.76
pull
Entries 89
Mean −250.4
Std Dev 0
pull1D
Entries 89
Mean −0.002586
Std Dev 0.2815

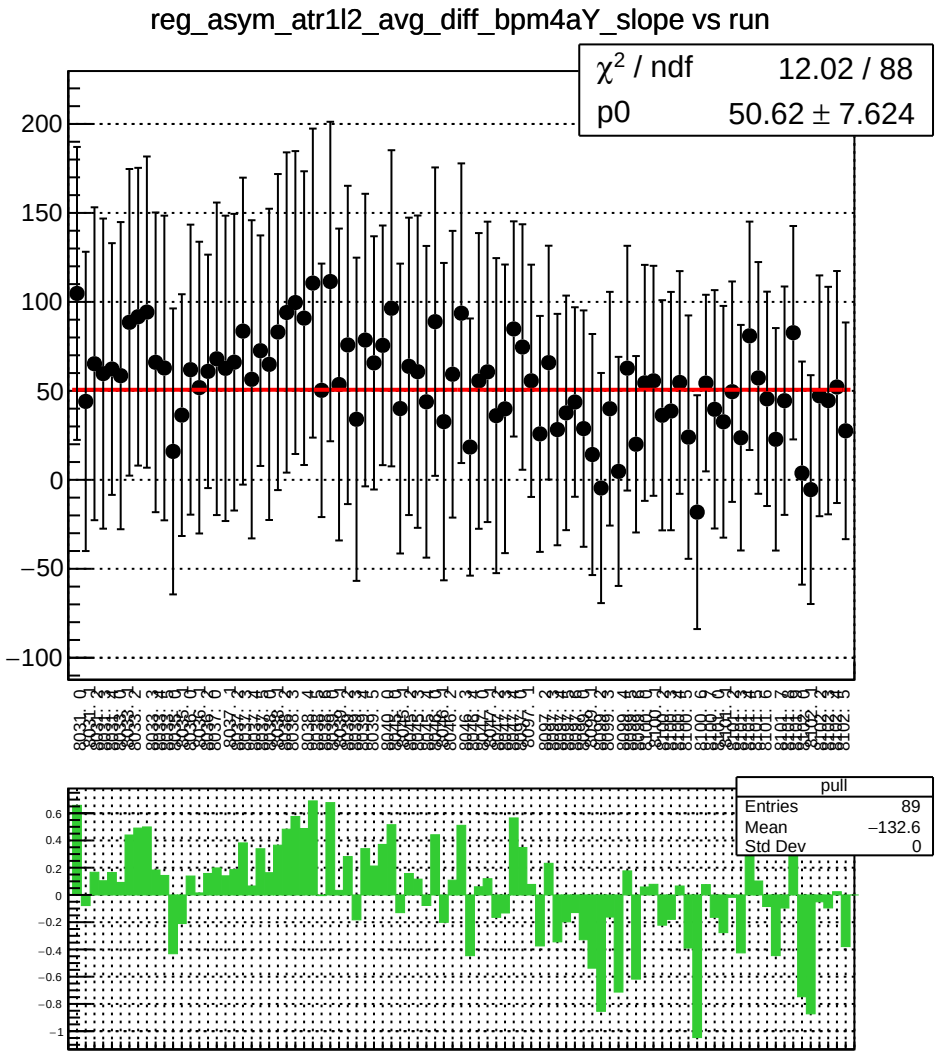

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.09 / 88
p0 −270 ± 6.859
−150
−200
−250
−300
−350
−400
pull
Entries 89
Mean 2857
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 89
Mean 0.001199
Std Dev 0.3196
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

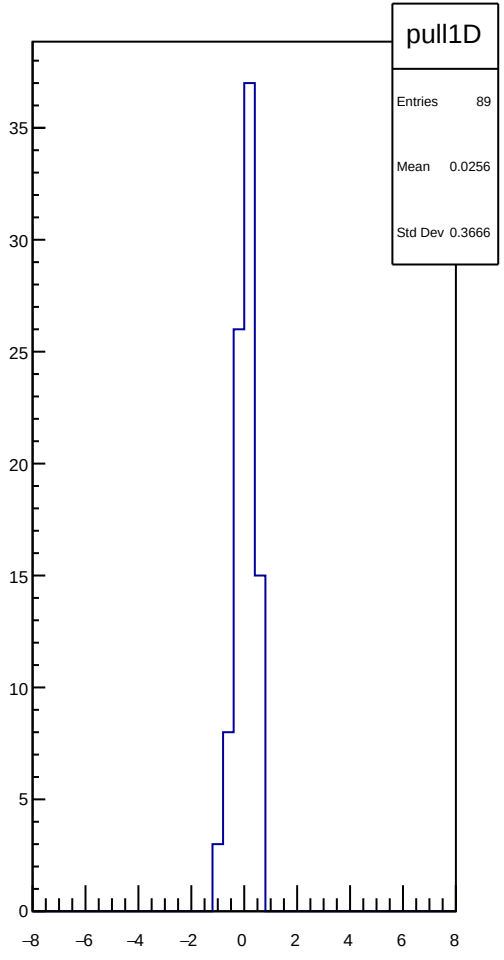

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.081 / 88
p0 13.43 ± 11.43
pull
Entries 89
Mean −110.2
Std Dev 0

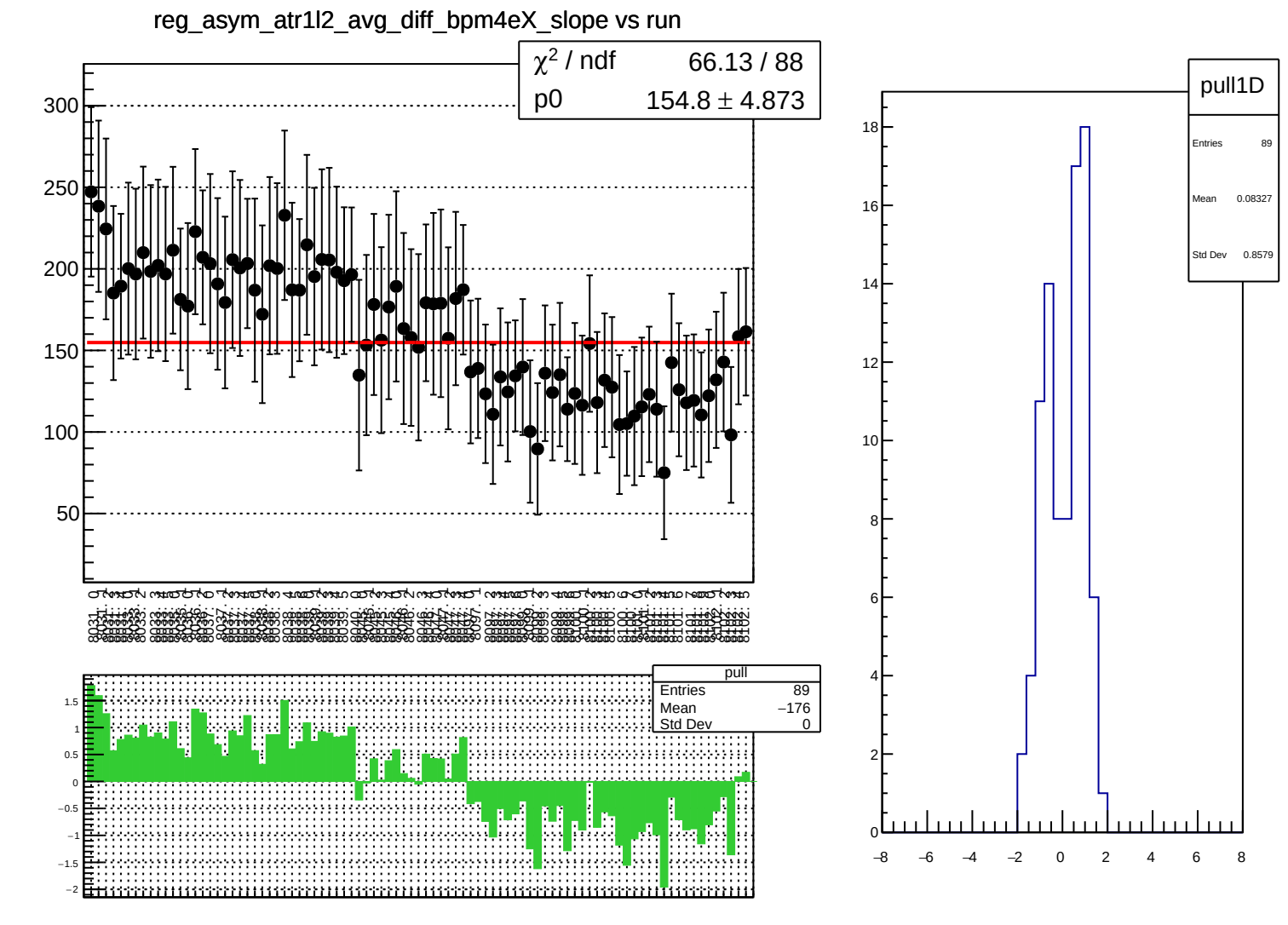

pull1D
Entries 89
Mean 0.002223
Std Dev 0.2821

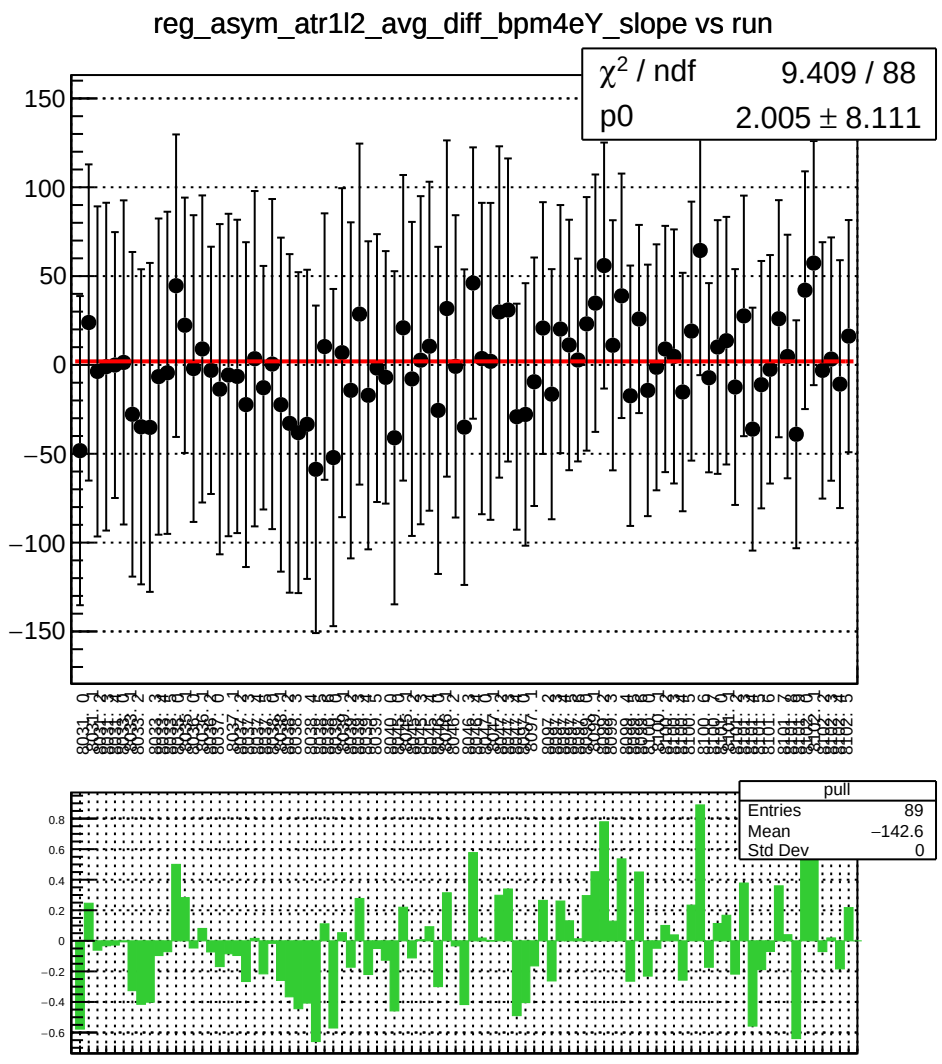

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 142.7 / 88
p0 153.4 ± 0.5539
pull
Entries 89
Mean −48.8
Std Dev 0
pull1D
Entries 89
Mean 0.2951
Std Dev 1.231

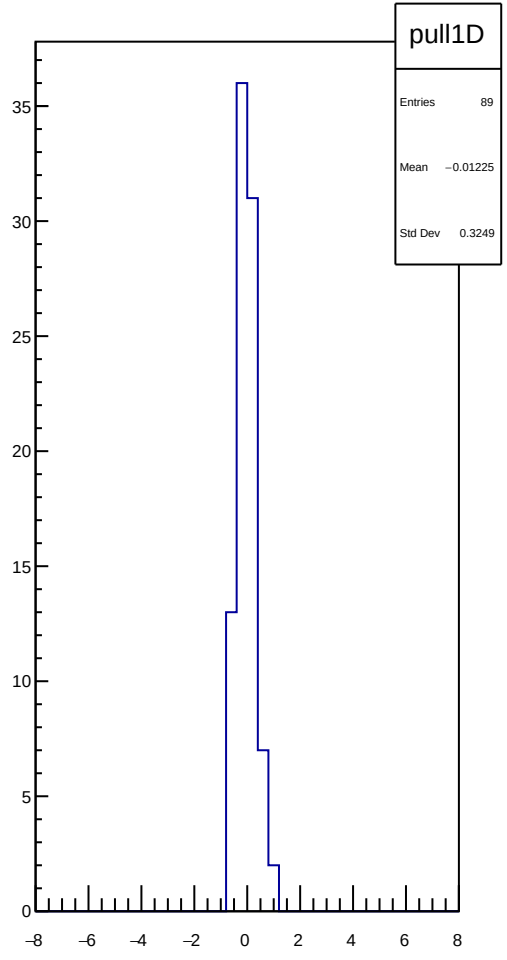

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 108.6 / 88
p0 −255.9 ± 4.687
pull
Entries 89
Mean −1286
Std Dev 0
pull1D
Entries 89
Mean −0.01857
Std Dev 1.104

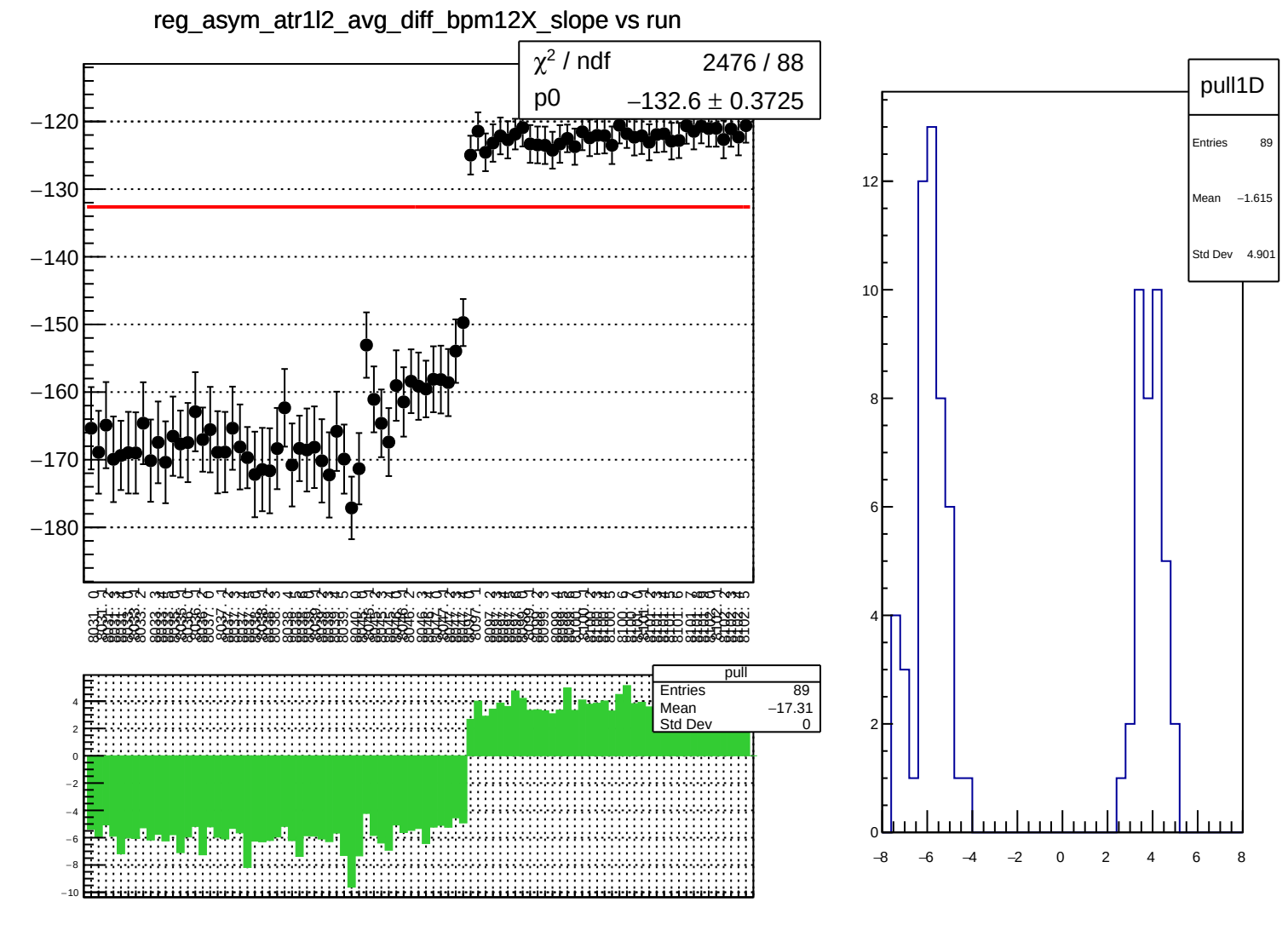

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.02 / 88
p0 50.62 ± 7.624
200
150
100
50
0
−50
−100
pull
Entries 89
Mean −132.6
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

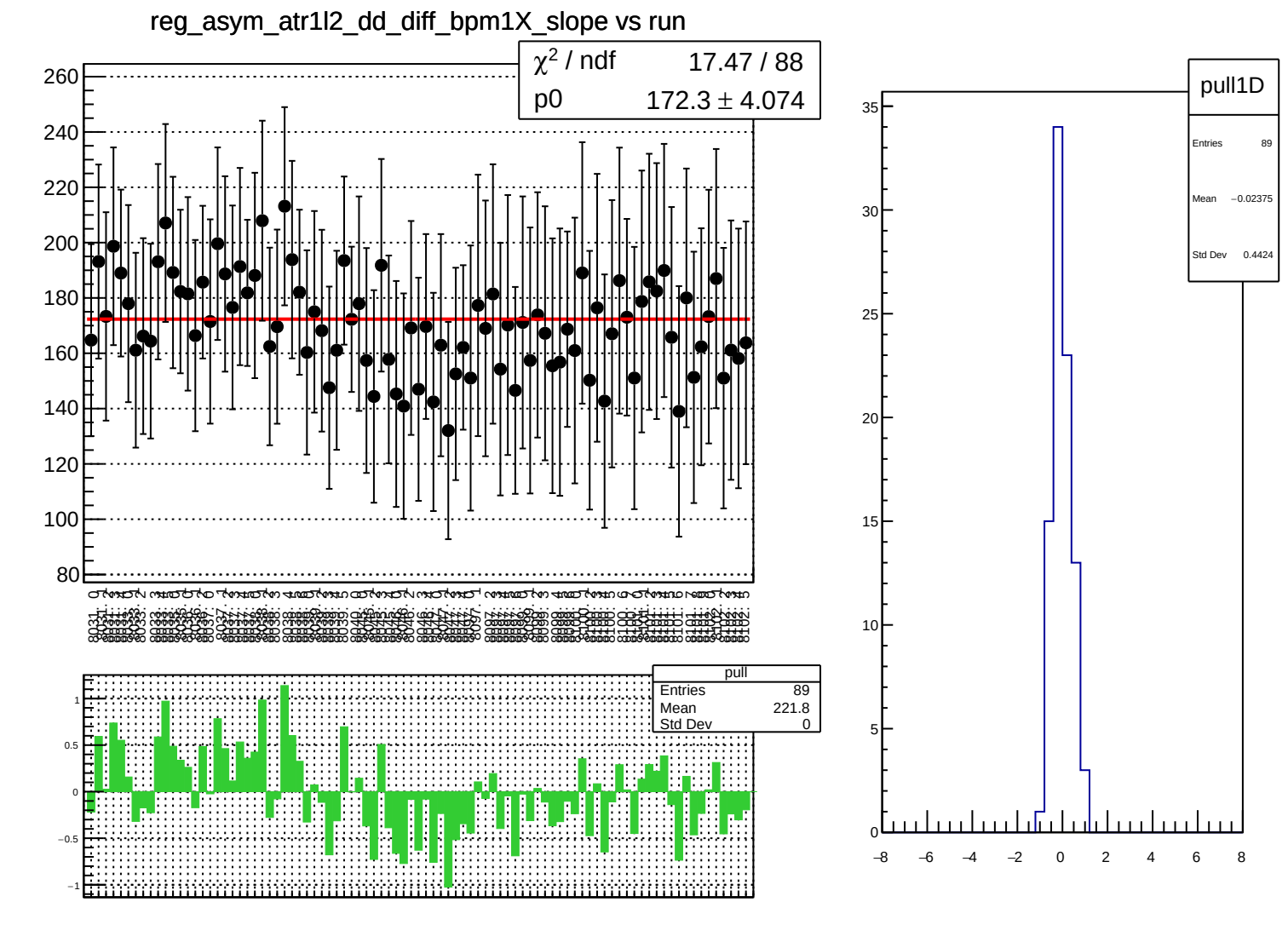

pull1D
Entries 89
Mean 0.0256
Std Dev 0.3666
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

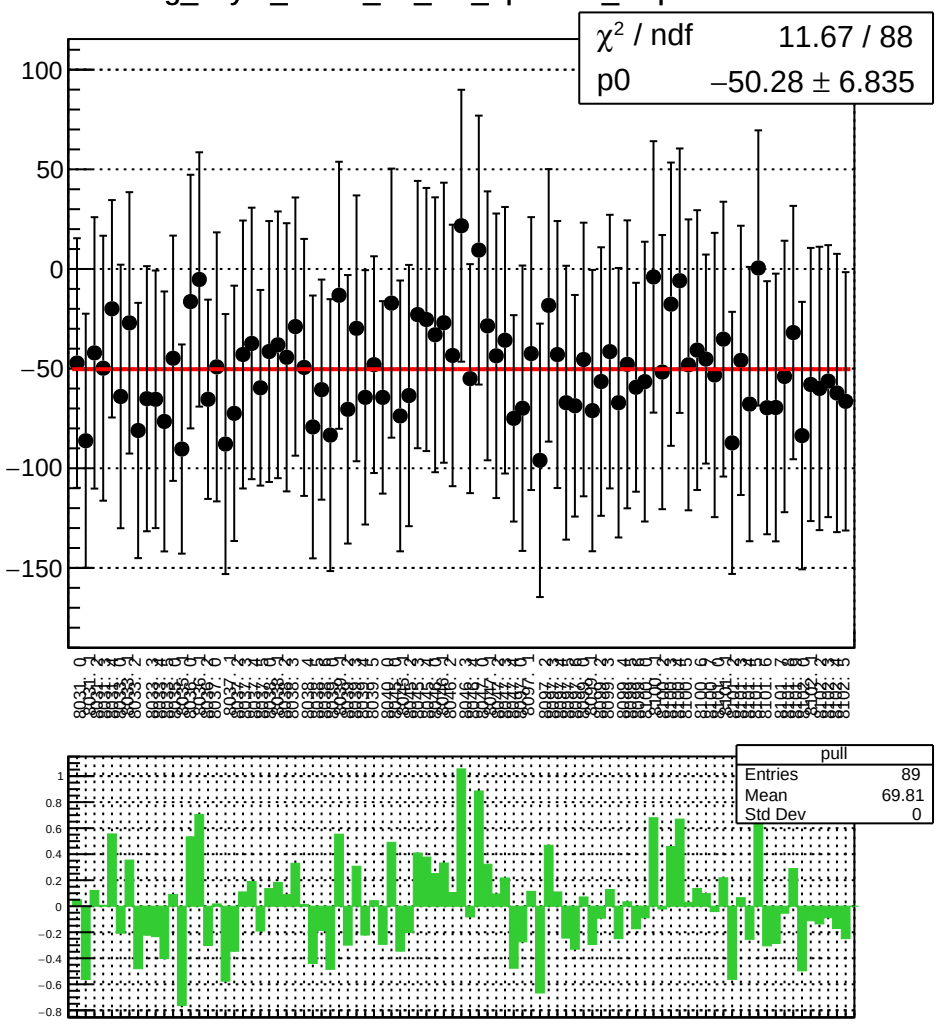

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 66.13 / 88
p0 154.8 ± 4.873
300
250
200
150
100
50
pull
Entries 89
Mean −176
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean 0.08327
Std Dev 0.8579
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

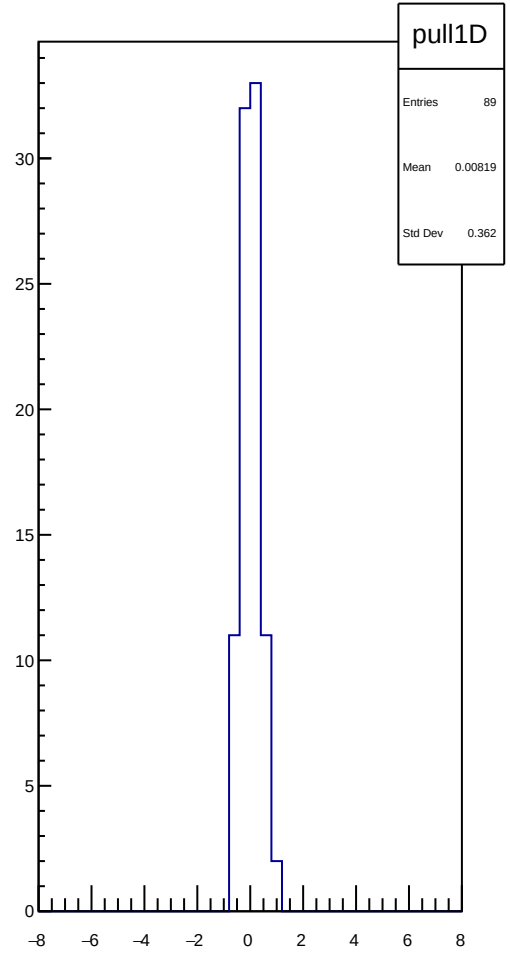

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.409 / 88
p0 2.005 ± 8.111
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −142.6
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

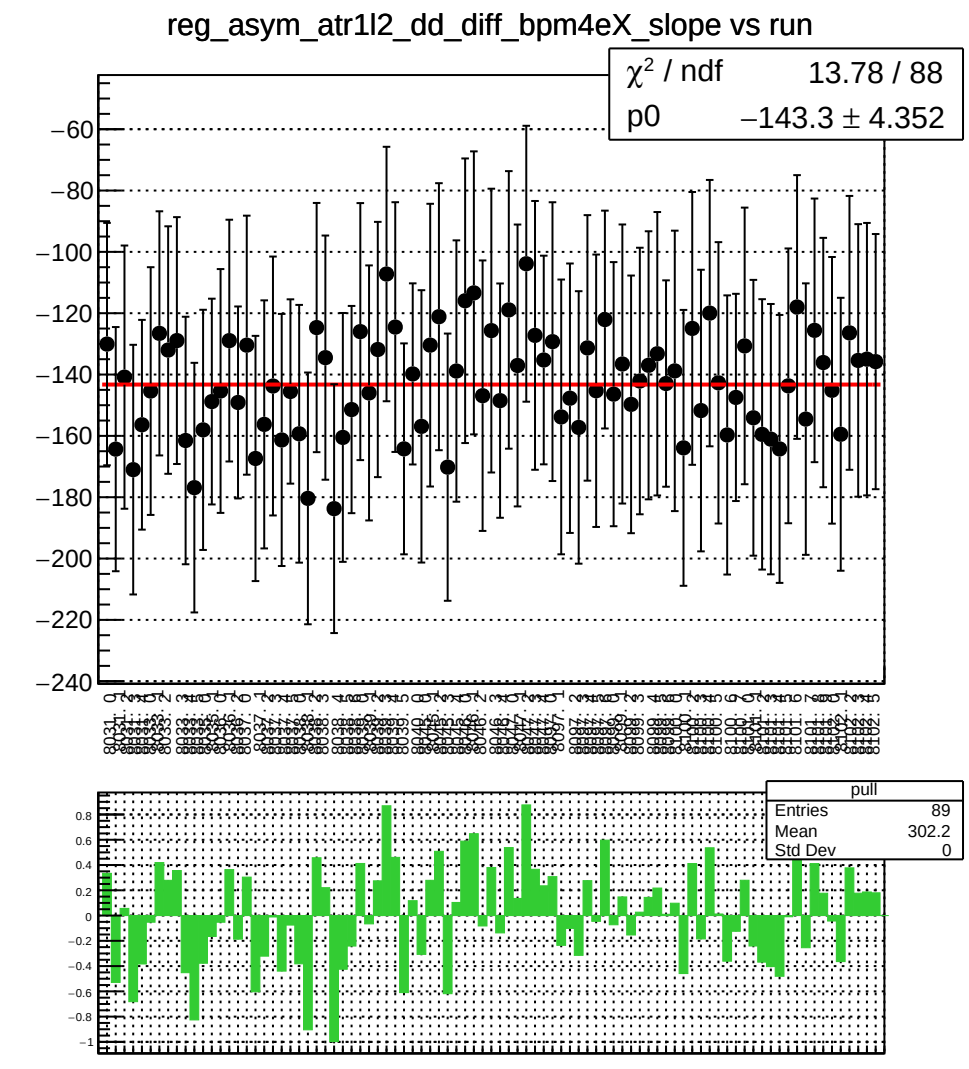

pull1D
Entries 89
Mean −0.01225
Std Dev 0.3249
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

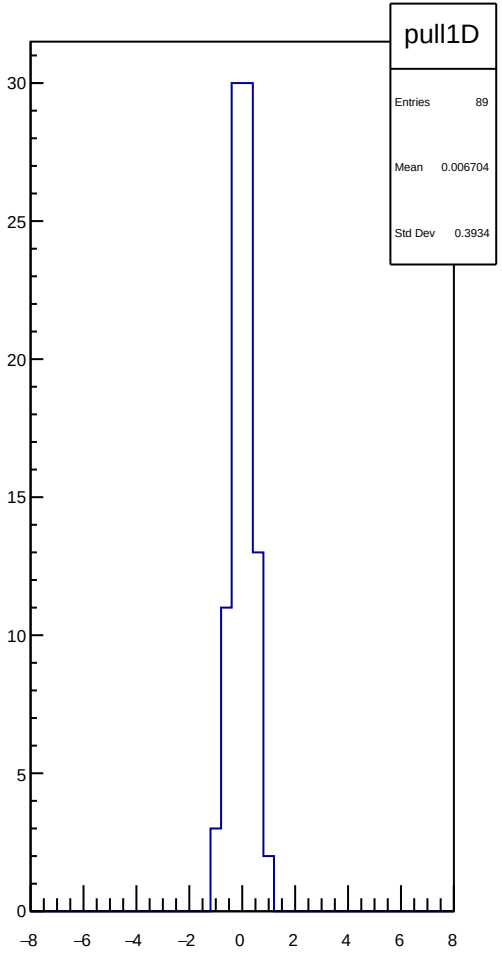

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 2476 / 88
p0 −132.6 ± 0.3725
−120
−130
−140
−150
−160
−170
−180
pull
Entries 89
Mean −17.31
Std Dev 0
4
2
0
−2
−4
−6
−8
−10
pull1D
Entries 89
Mean −1.615
Std Dev 4.901
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

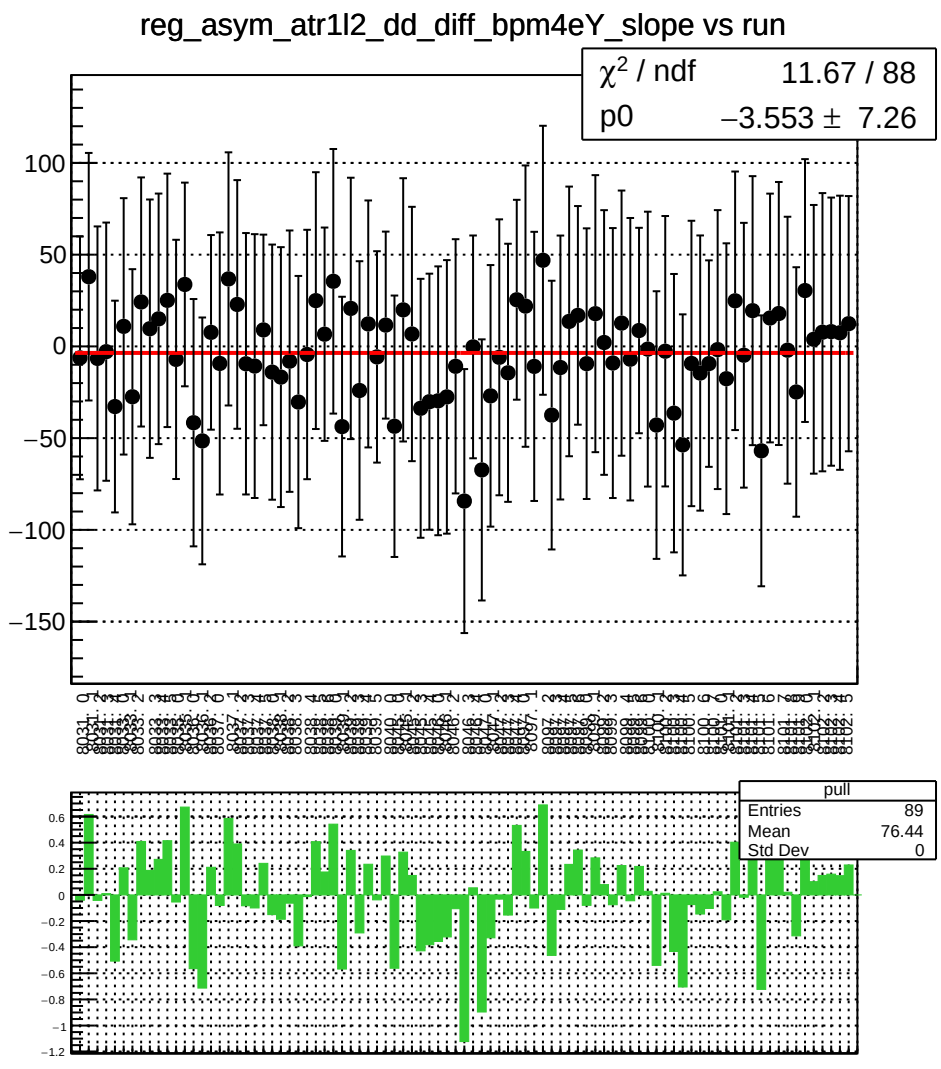

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 17.47 / 88
p0 172.3 ± 4.074
pull
Entries 89
Mean 221.8
Std Dev 0
pull1D
Entries 89
Mean −0.02375
Std Dev 0.4424

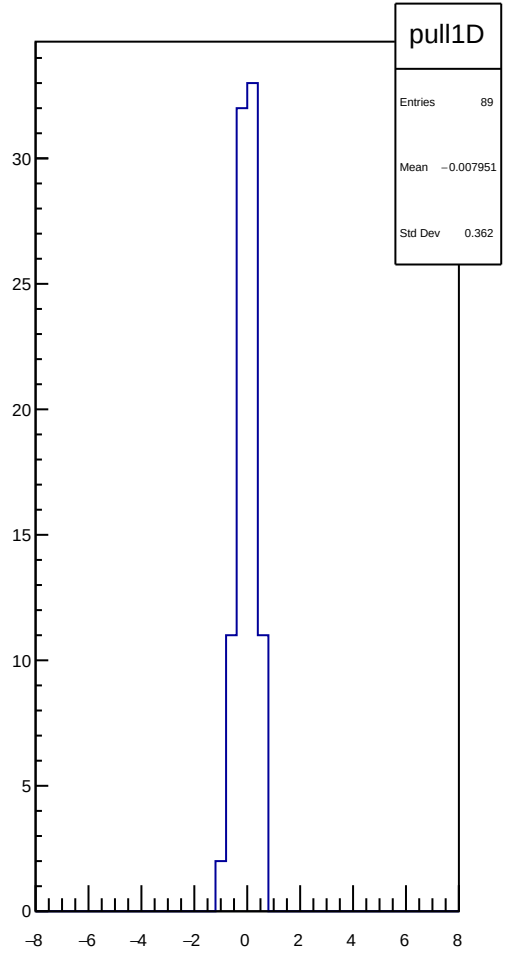

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.67 / 88
p0 −50.28 ± 6.835
100
50
0
−50
−100
−150
pull
Entries 89
Mean 69.81
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

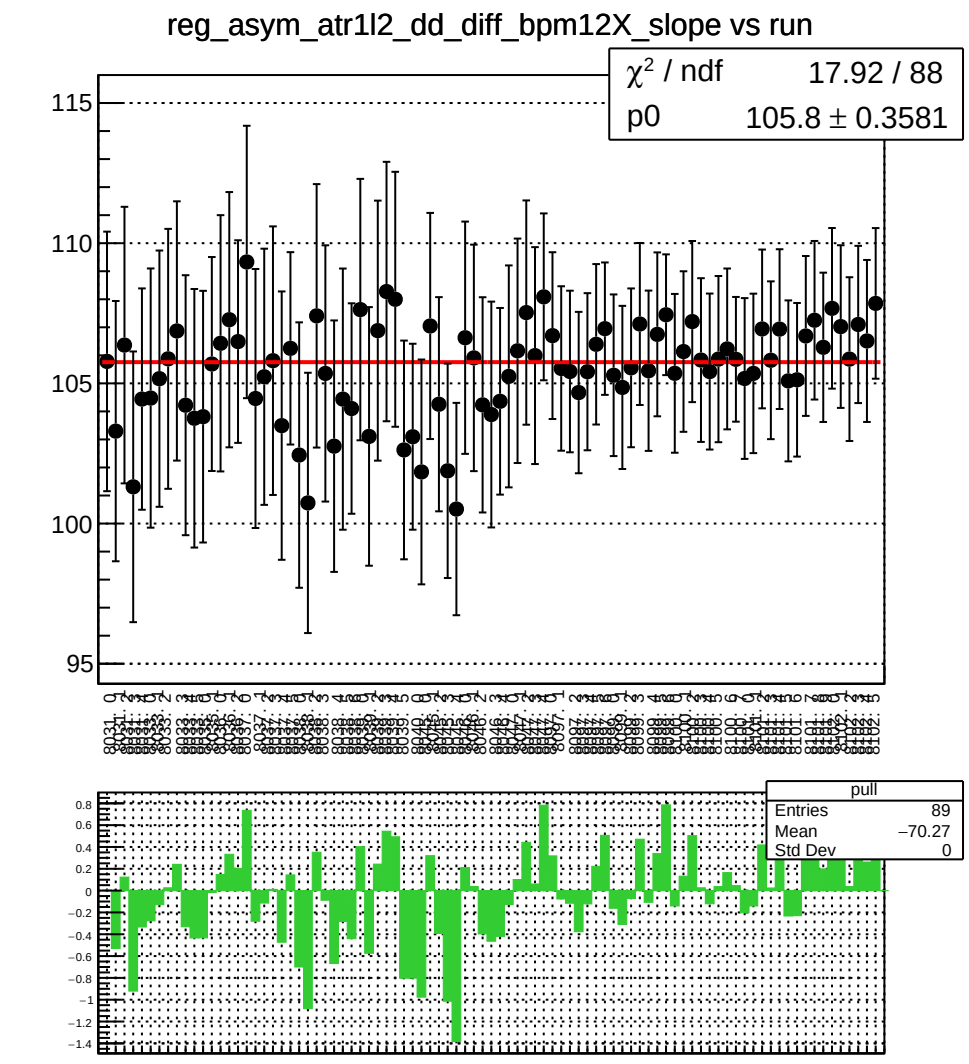

pull1D
Entries 89
Mean 0.00819
Std Dev 0.362
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

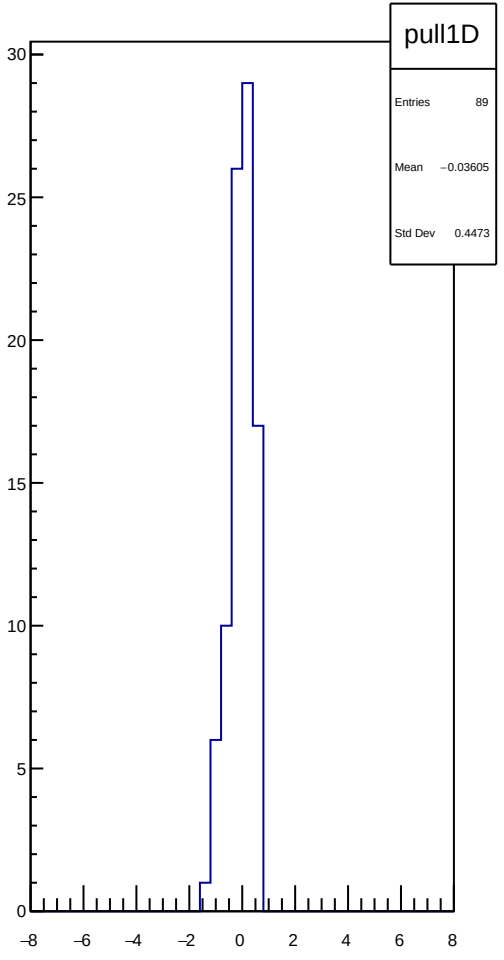

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 13.78 / 88
p0 −143.3 ± 4.352
pull
Entries 89
Mean 302.2
Std Dev 0

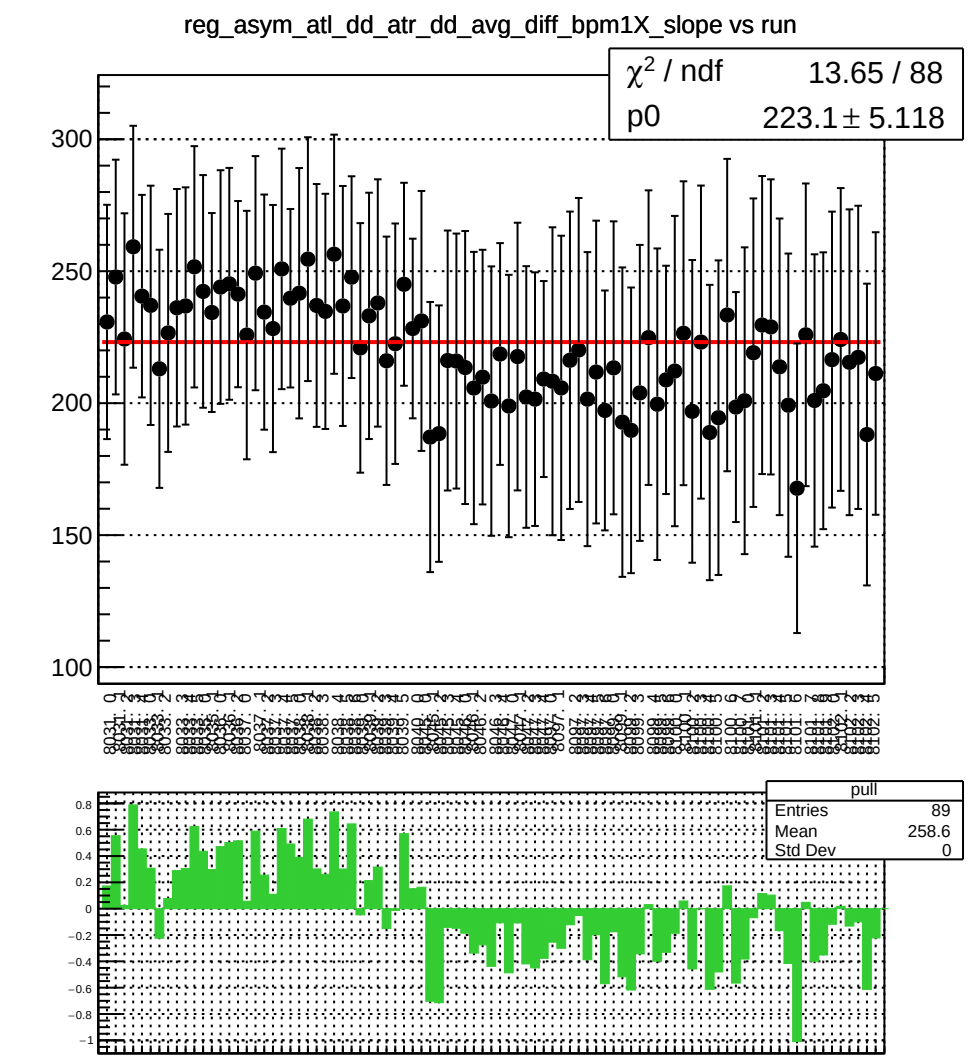

pull1D
Entries 89
Mean 0.006704
Std Dev 0.3934

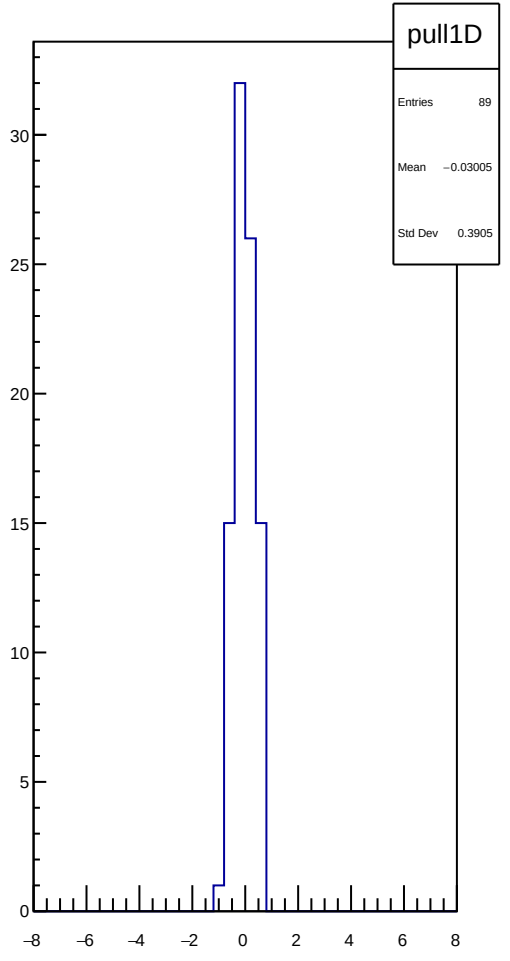

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.67 / 88
p0 −3.553 ± 7.26
100
50
0
−50
−100
−150
pull
Entries 89
Mean 76.44
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

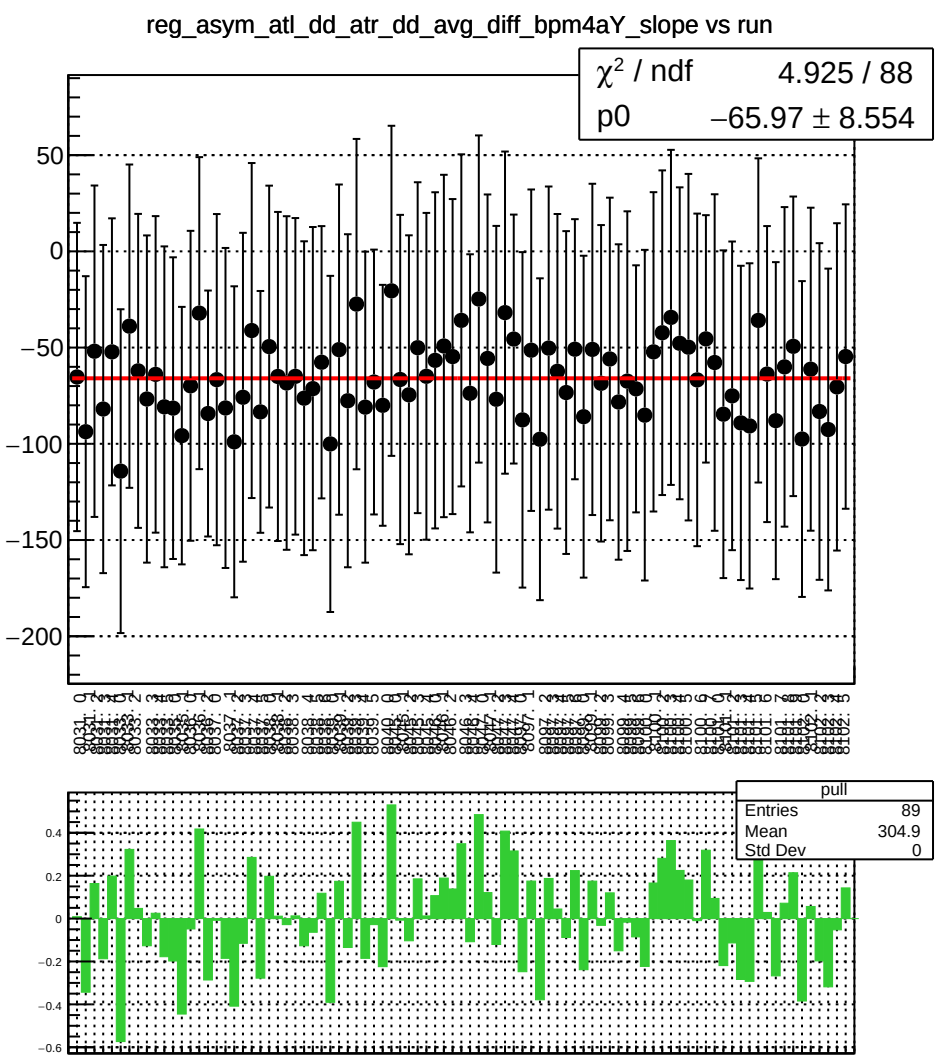

pull1D
Entries 89
Mean −0.007951
Std Dev 0.362
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

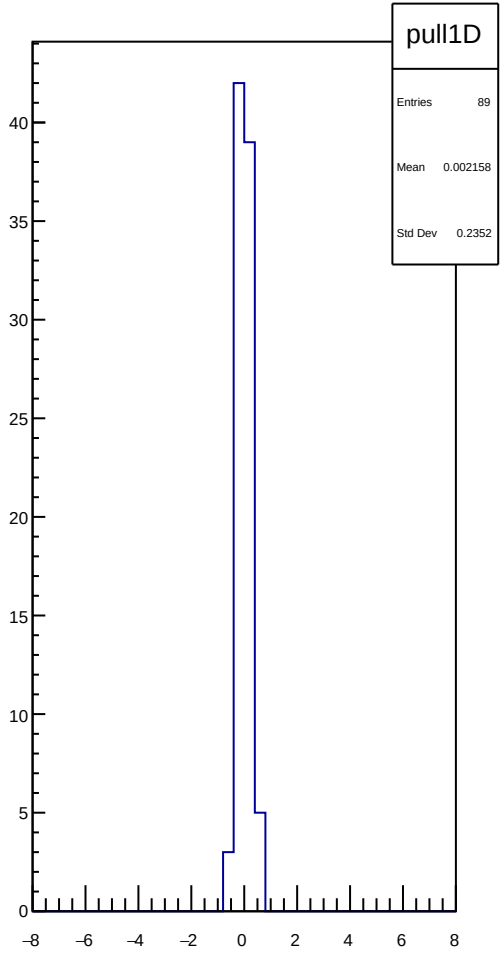

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 17.92 / 88
p0 105.8 ± 0.3581
115
110
105
100
95
pull
Entries 89
Mean −70.27
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4

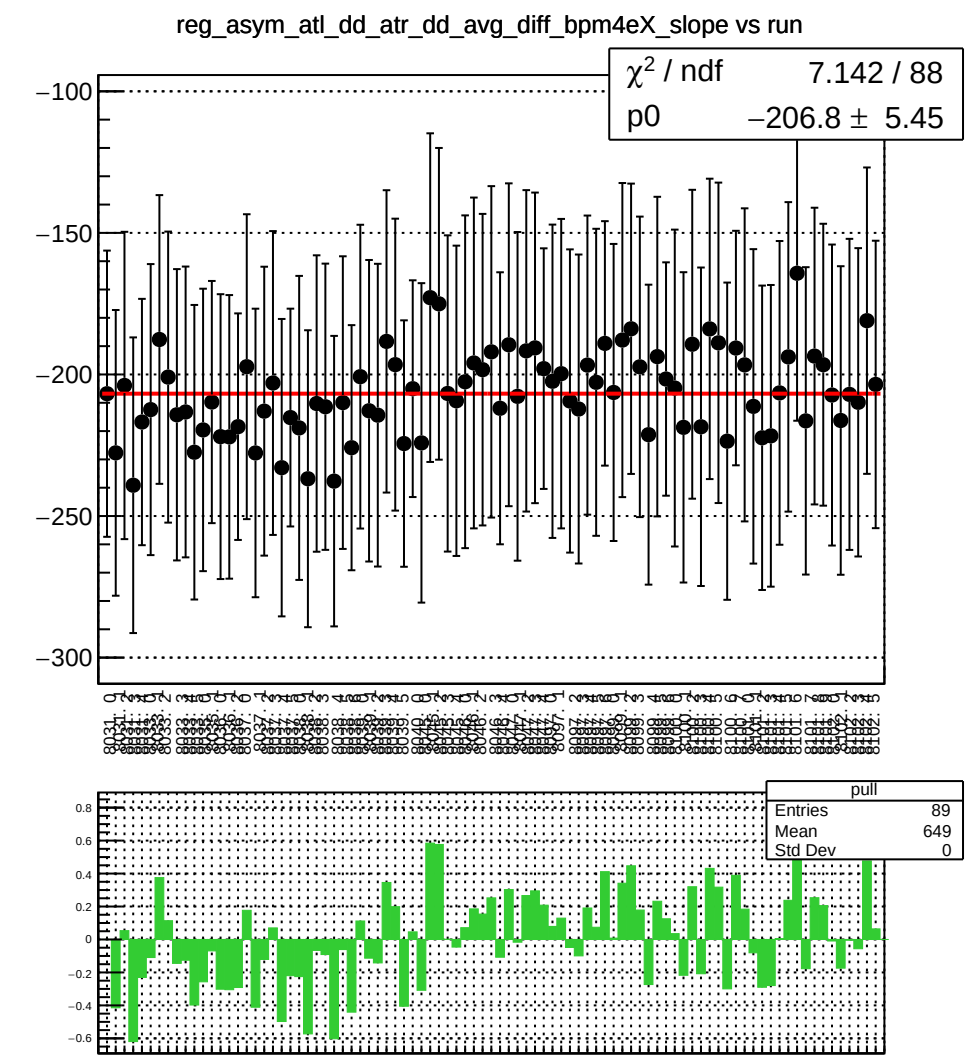

pull1D
Entries 89
Mean −0.03605
Std Dev 0.4473
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

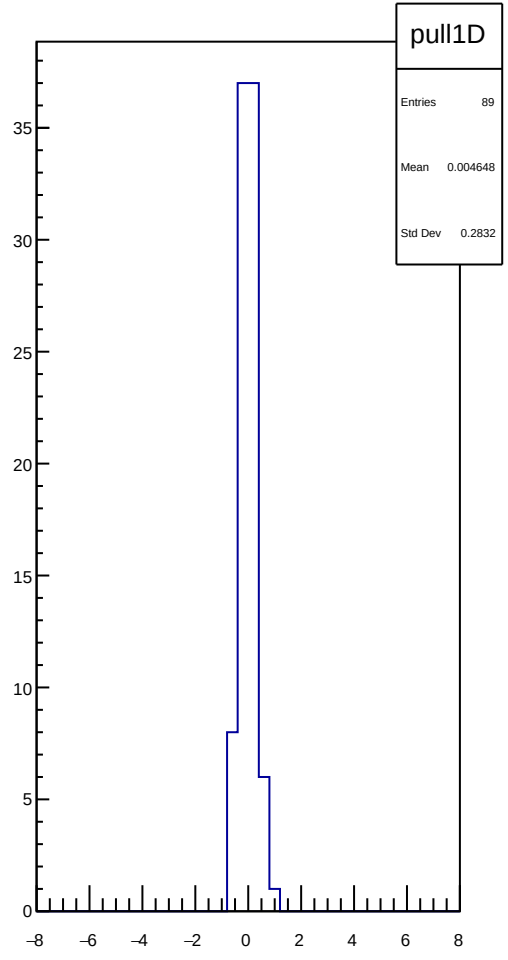

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 13.65 / 88
p0 223.1 ± 5.118
300
250
200
150
100
pull
Entries 89
Mean 258.6
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

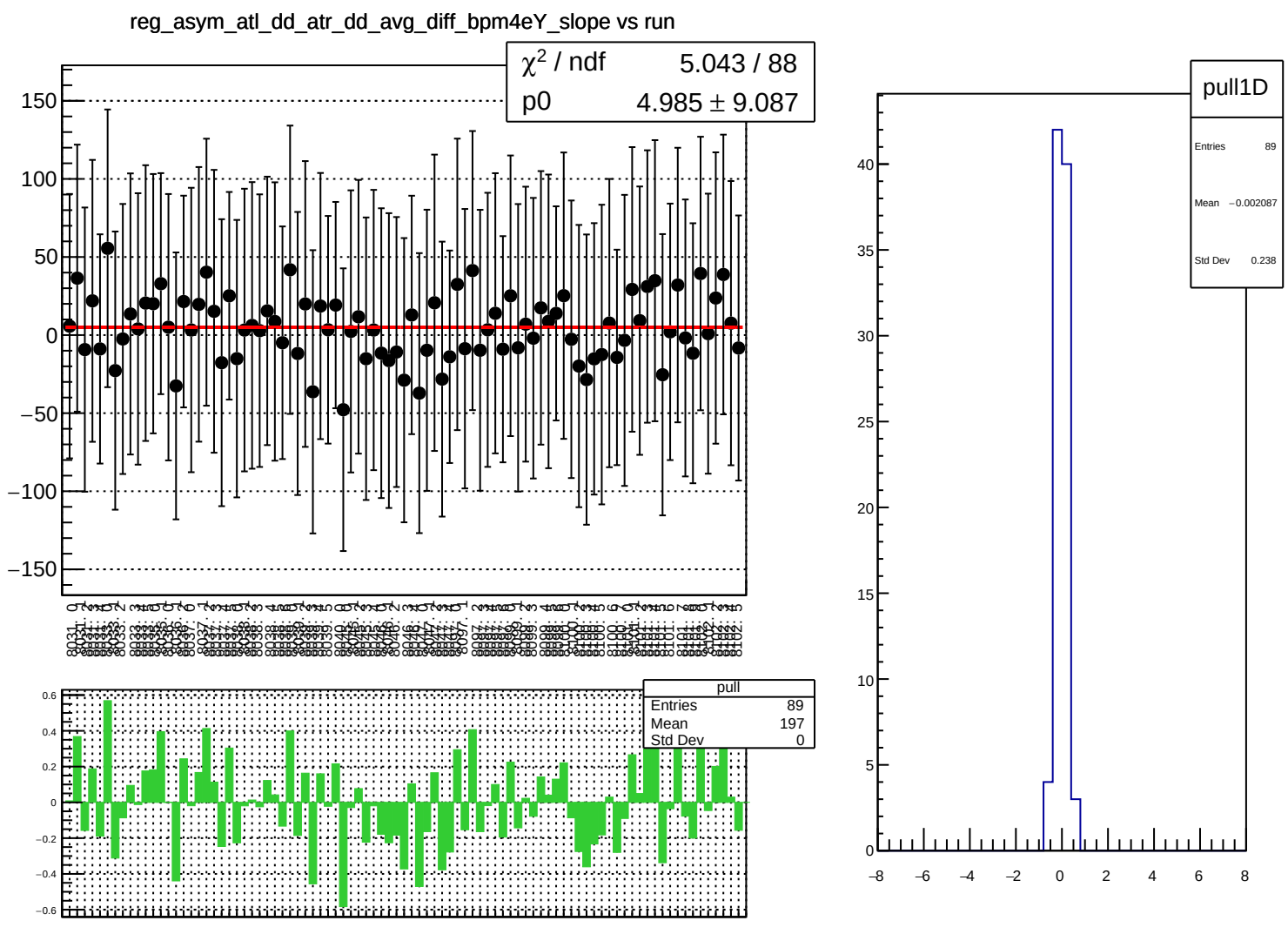

pull1D
Entries 89
Mean −0.03005
Std Dev 0.3905
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

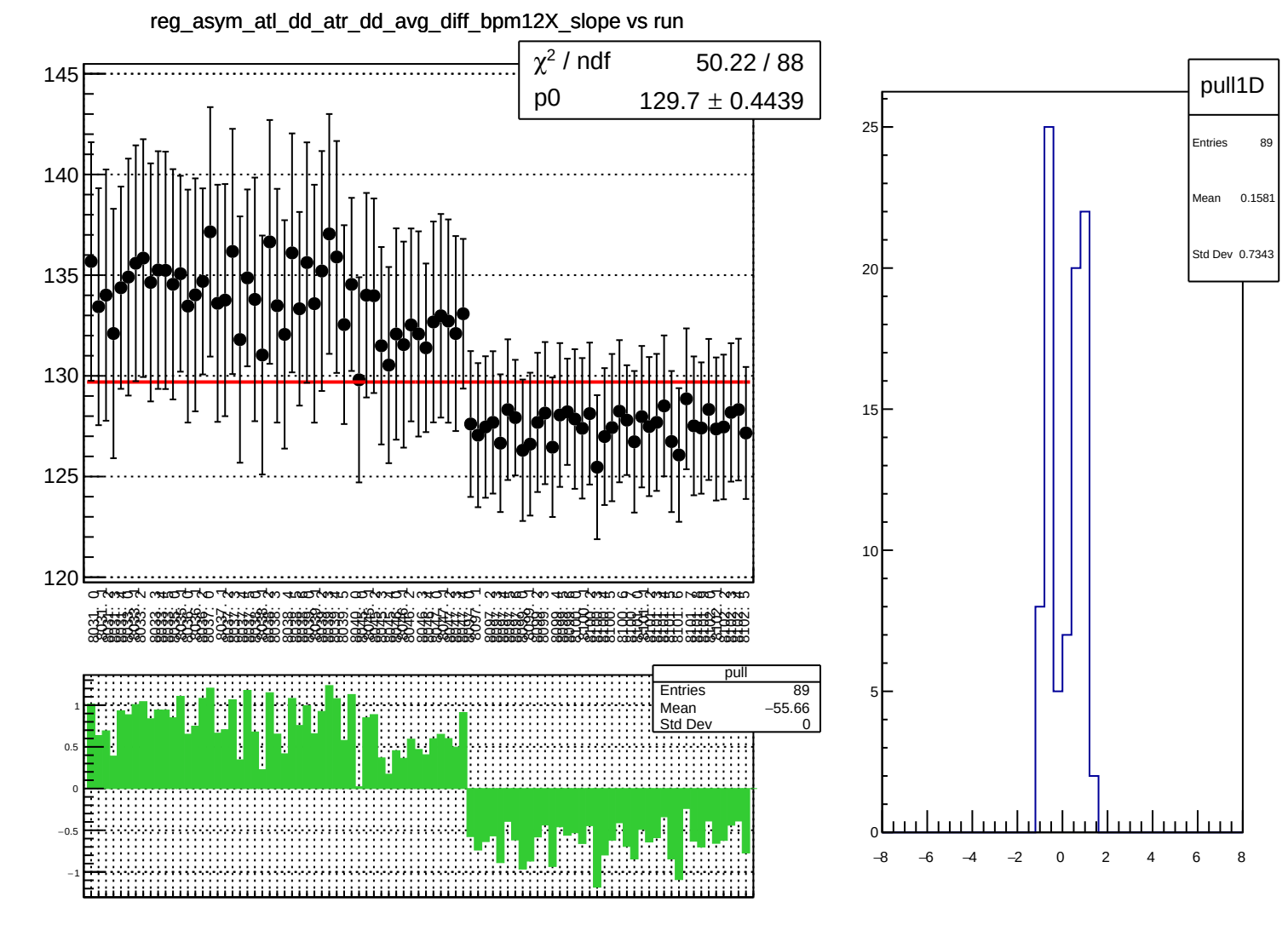

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.925 / 88
p0 −65.97 ± 8.554
50
0
−50
−100
−150
−200
pull
Entries 89
Mean 304.9
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6

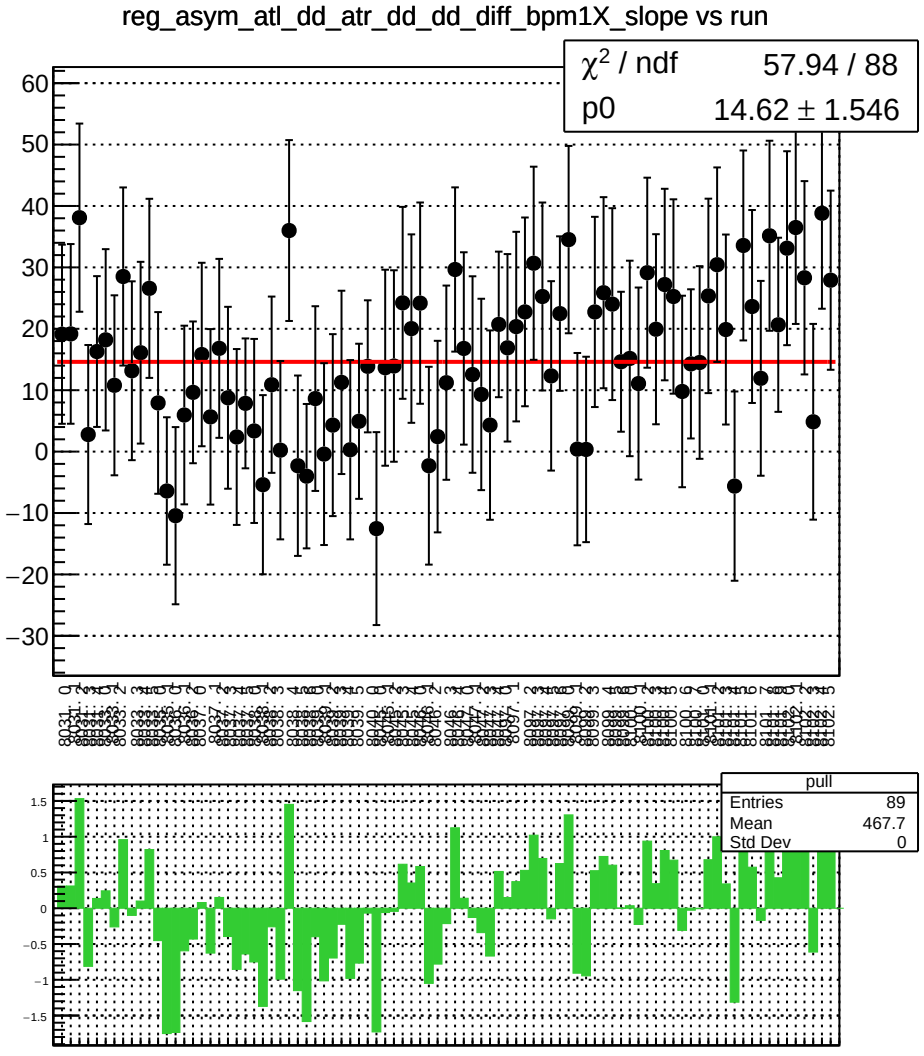

pull1D
Entries 89
Mean 0.002158
Std Dev 0.2352
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

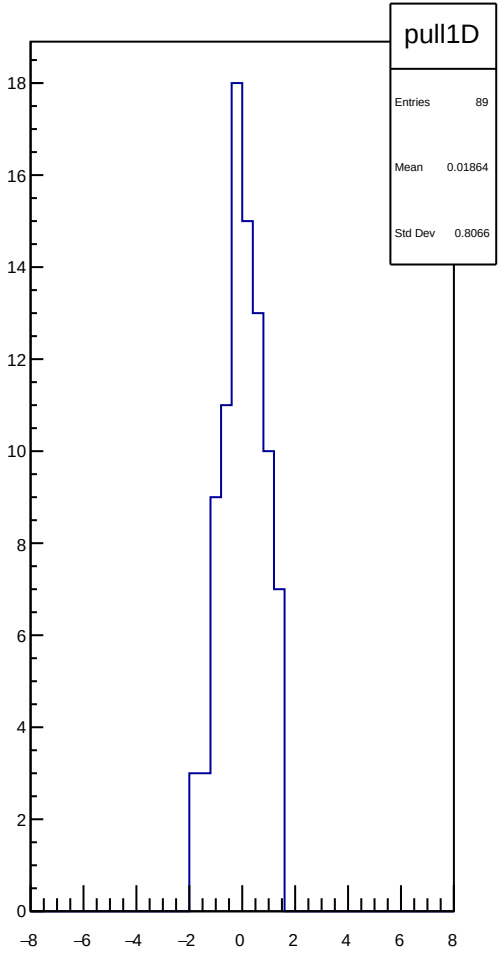

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.142 / 88
p0 −206.8 ± 5.45
−100
−150
−200
−250
−300
pull
Entries 89
Mean 649
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

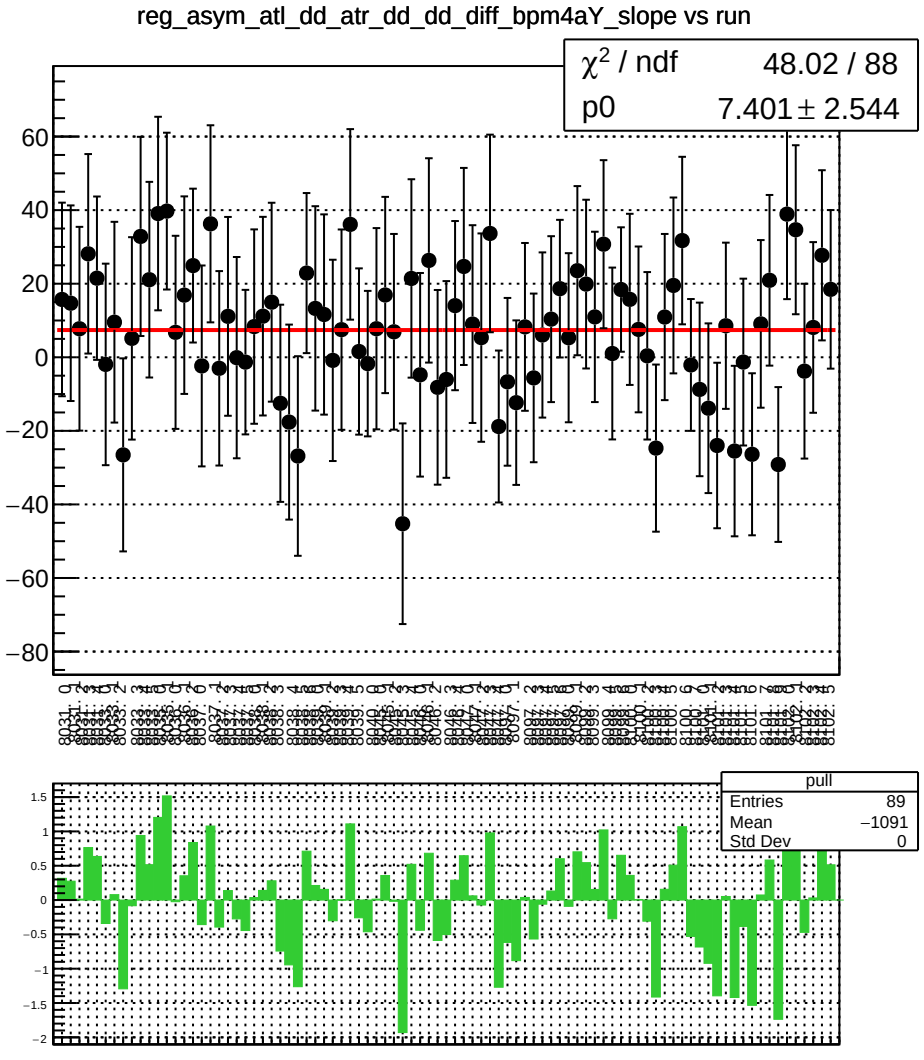

pull1D
Entries 89
Mean 0.004648
Std Dev 0.2832
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

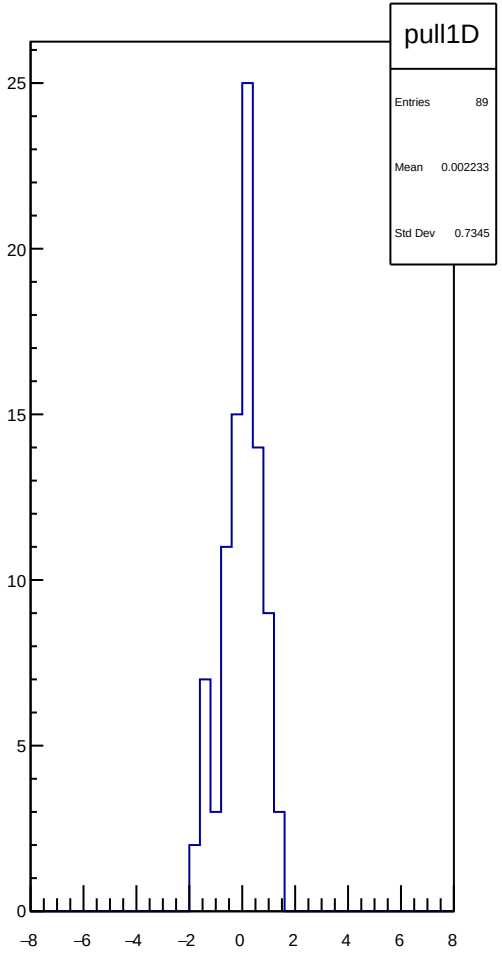

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.043 / 88
p0 4.985 ± 9.087
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean 197
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 89
Mean −0.002087
Std Dev 0.238
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

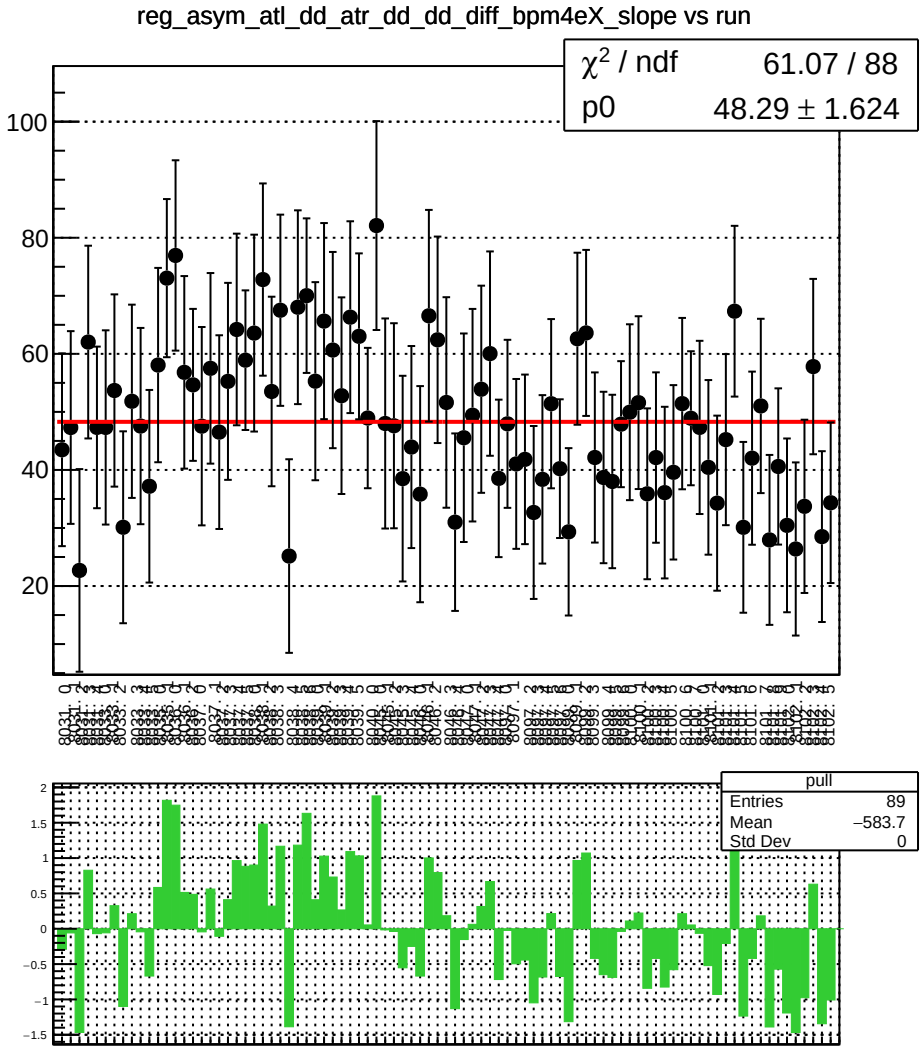

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 50.22 / 88
p0 129.7 ± 0.4439
145
140
135
130
125
120
pull
Entries 89
Mean −55.66
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean 0.1581
Std Dev 0.7343
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

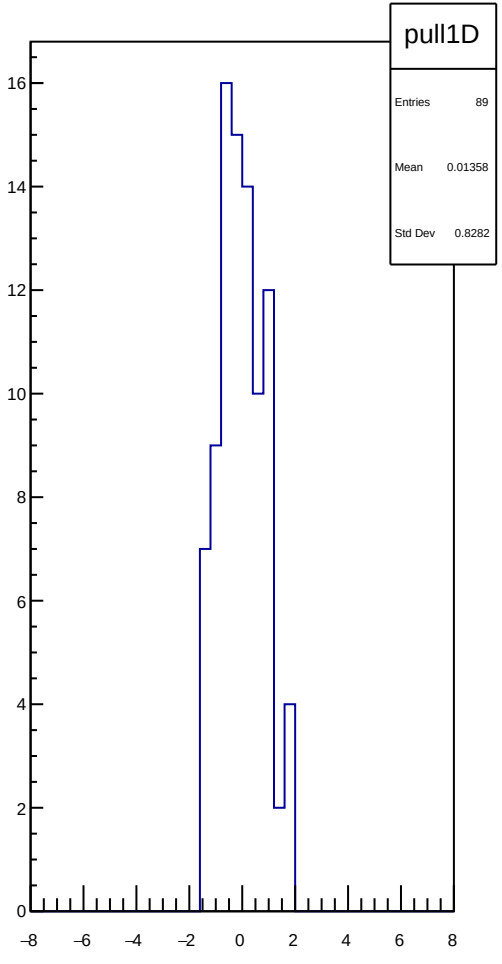

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 57.94 / 88
p0 14.62 ± 1.546
pull
Entries 89
Mean 467.7
Std Dev 0

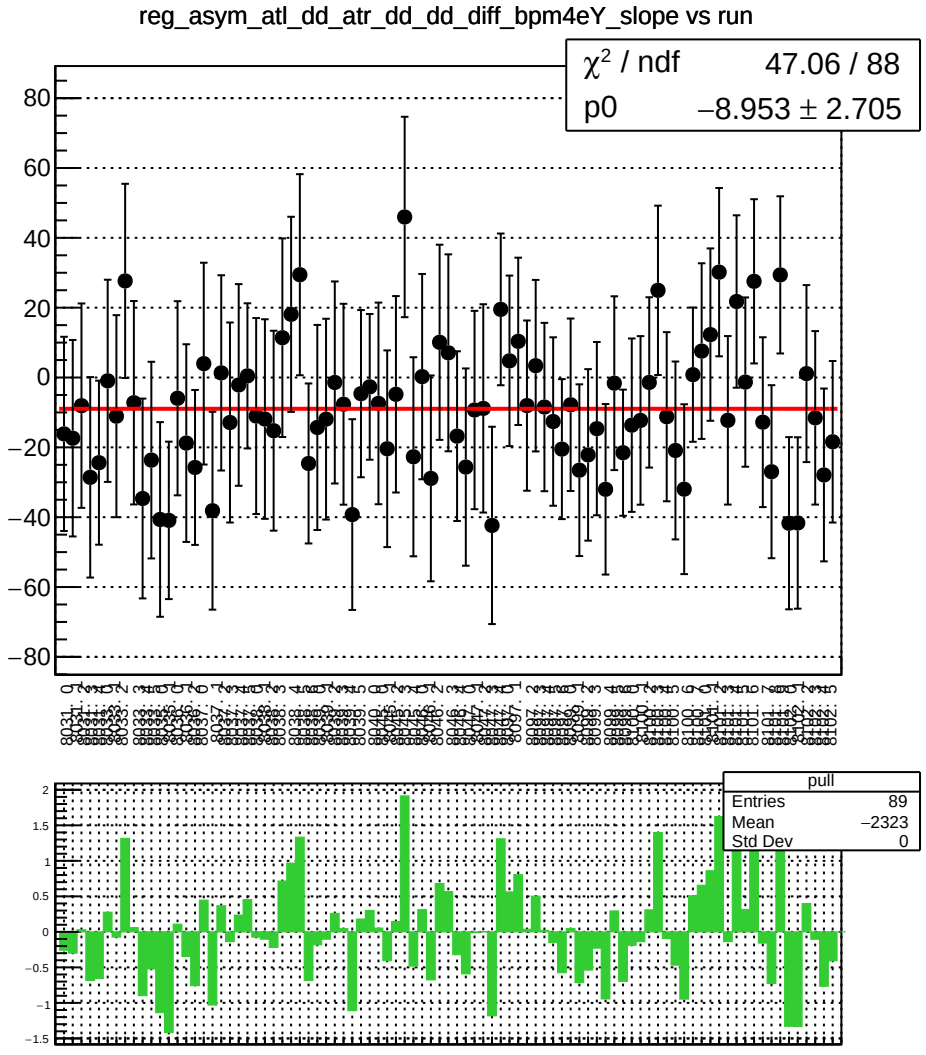

pull1D
Entries 89
Mean 0.01864
Std Dev 0.8066

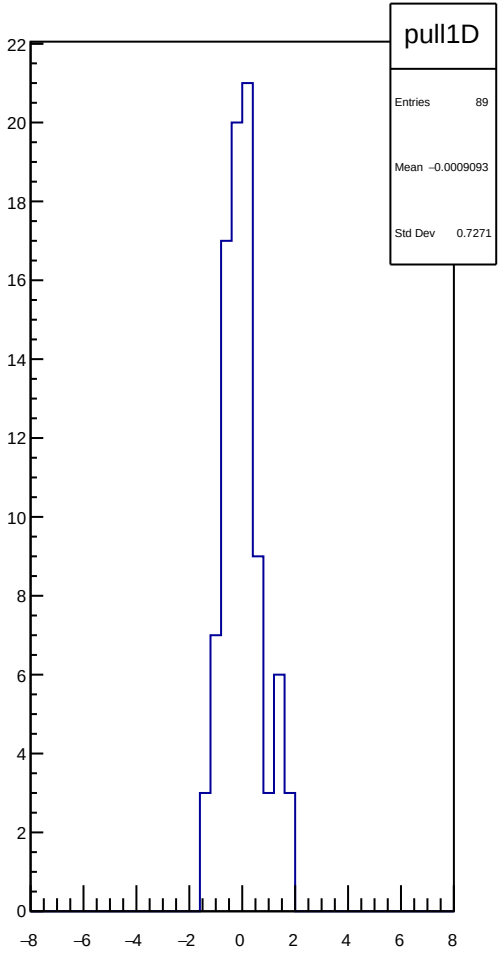

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 48.02 / 88
p0 7.401 ± 2.544
pull
Entries 89
Mean −1091
Std Dev 0

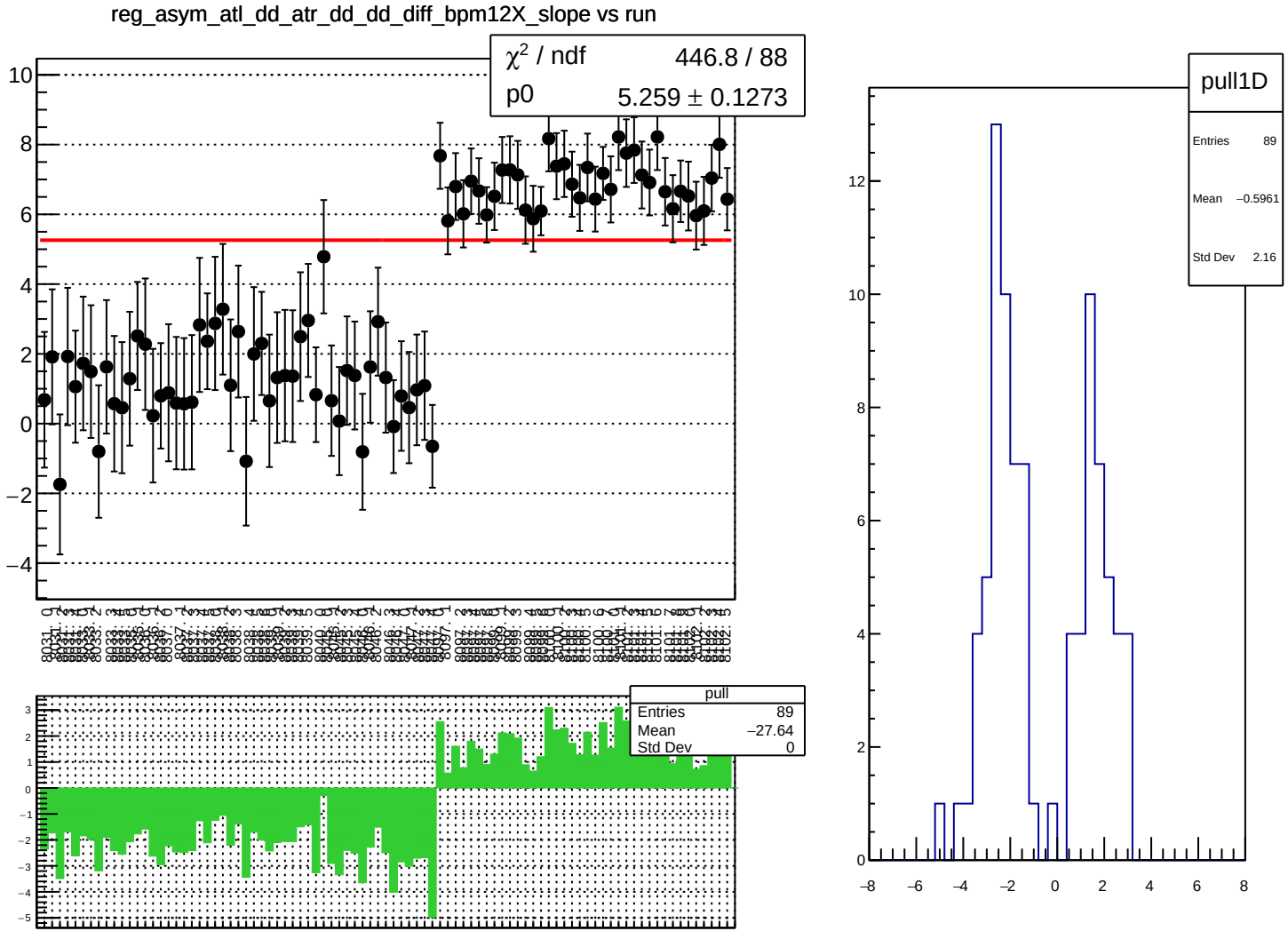

pull1D
Entries 89
Mean 0.002233
Std Dev 0.7345

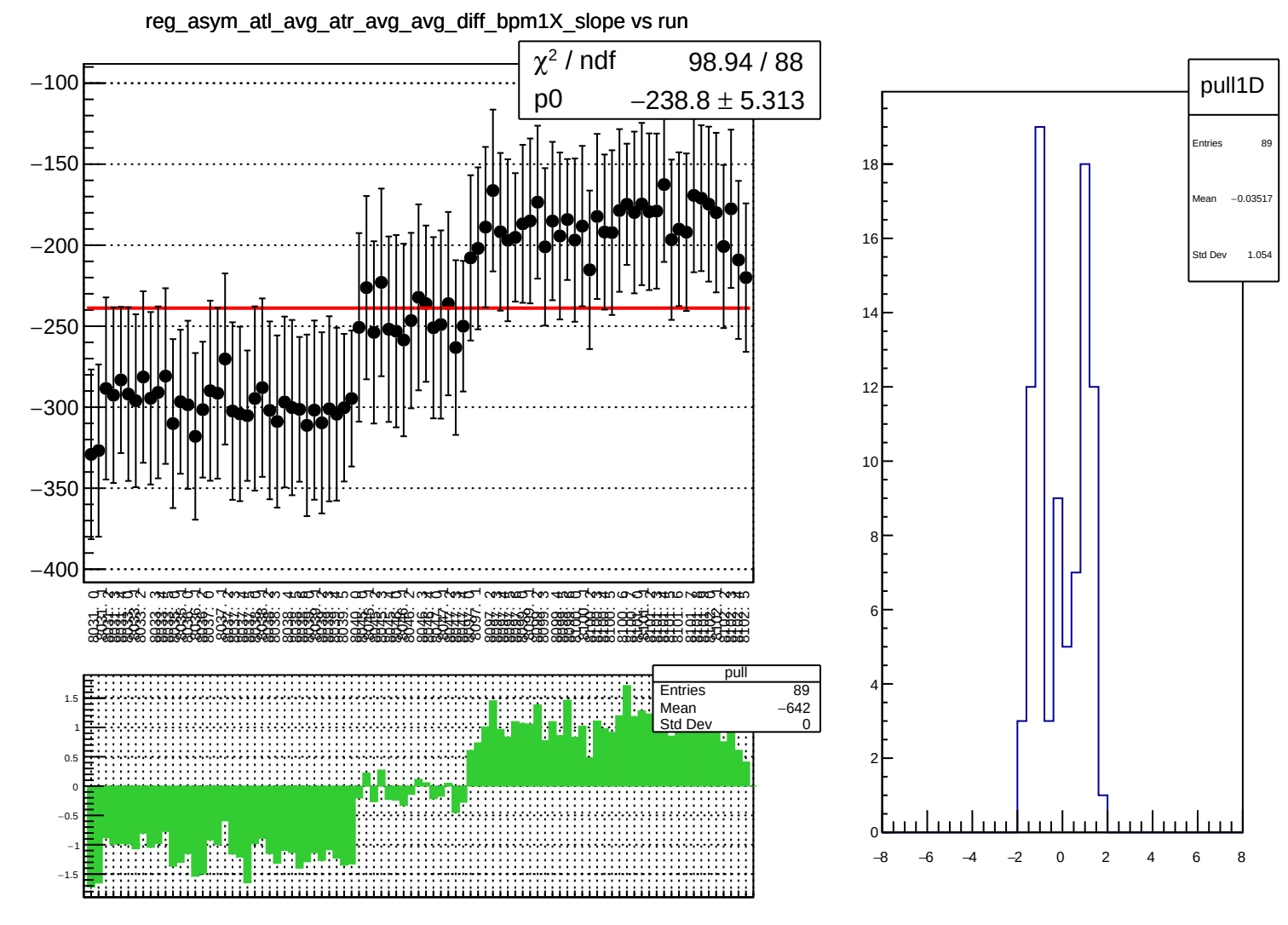

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 61.07 / 88
p0 48.29 ± 1.624
pull
Entries 89
Mean −583.7
Std Dev 0

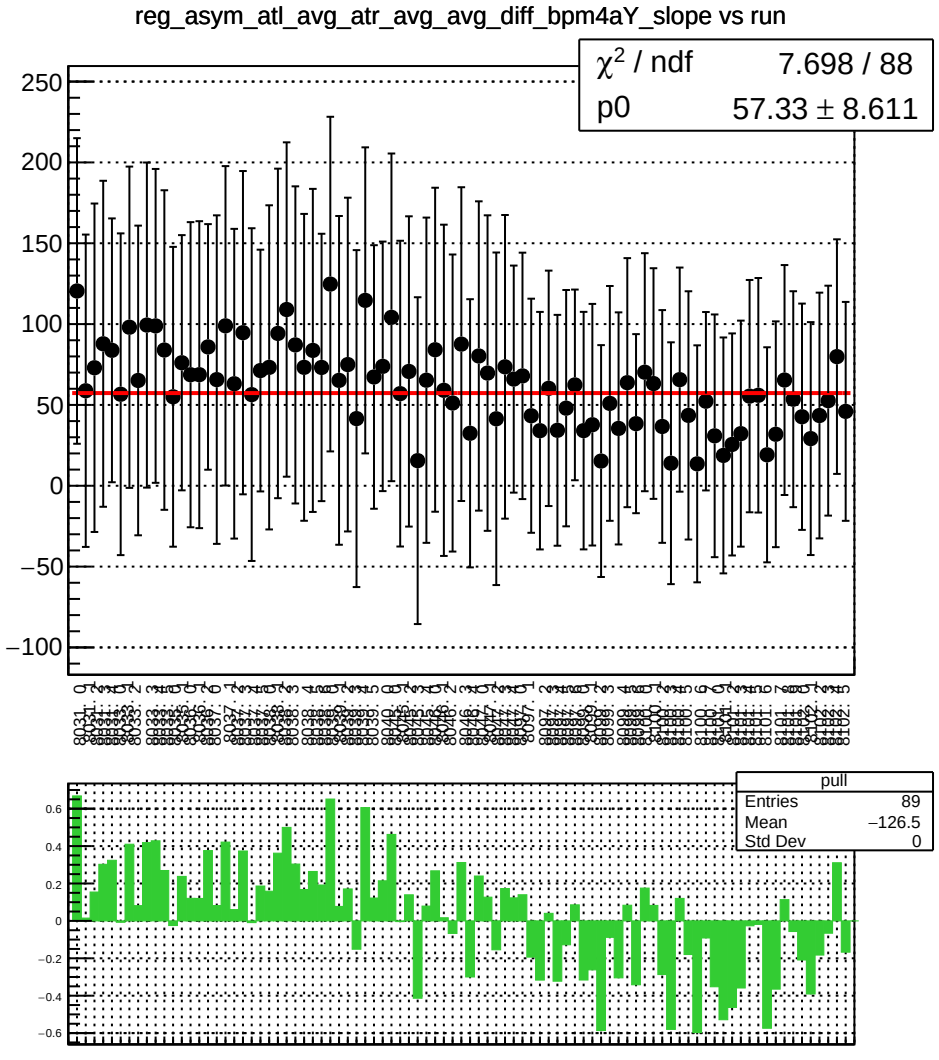

pull1D
Entries 89
Mean 0.01358
Std Dev 0.8282

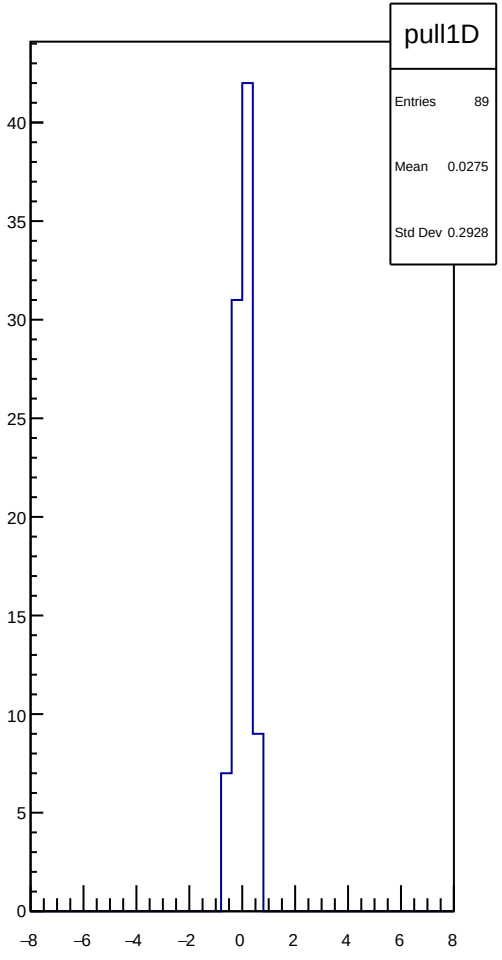

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 47.06 / 88
p0 −8.953 ± 2.705
pull
Entries 89
Mean −2323
Std Dev 0

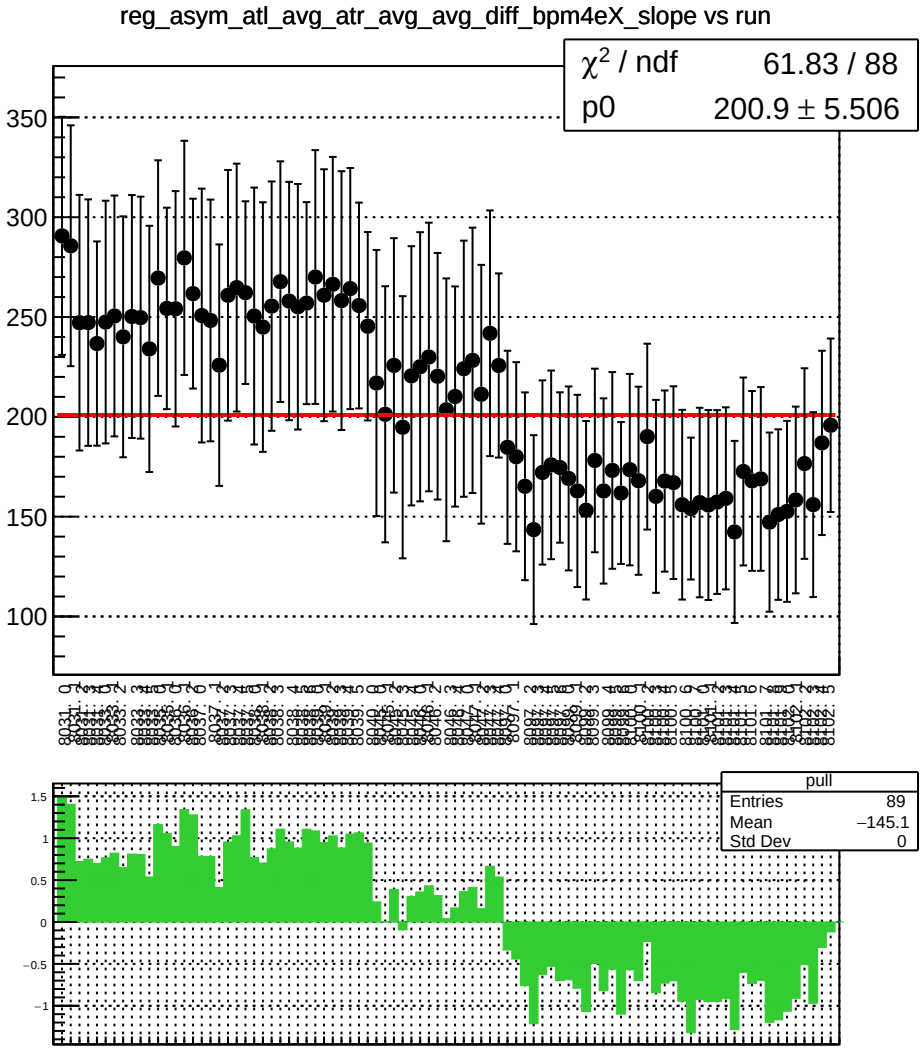

pull1D
Entries 89
Mean −0.0009093
Std Dev 0.7271

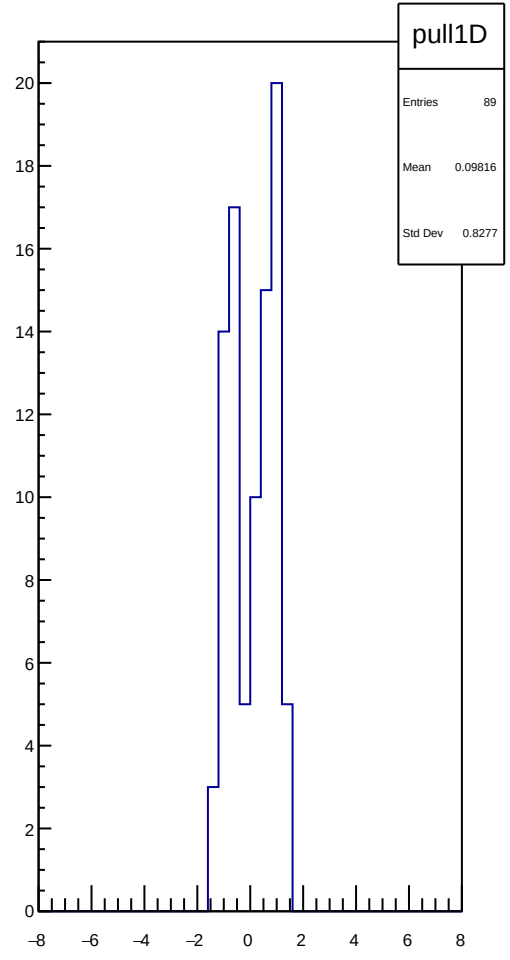

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 446.8 / 88
p0 5.259 ± 0.1273
pull
Entries 89
Mean −27.64
Std Dev 0
pull1D
Entries 89
Mean −0.5961
Std Dev 2.16

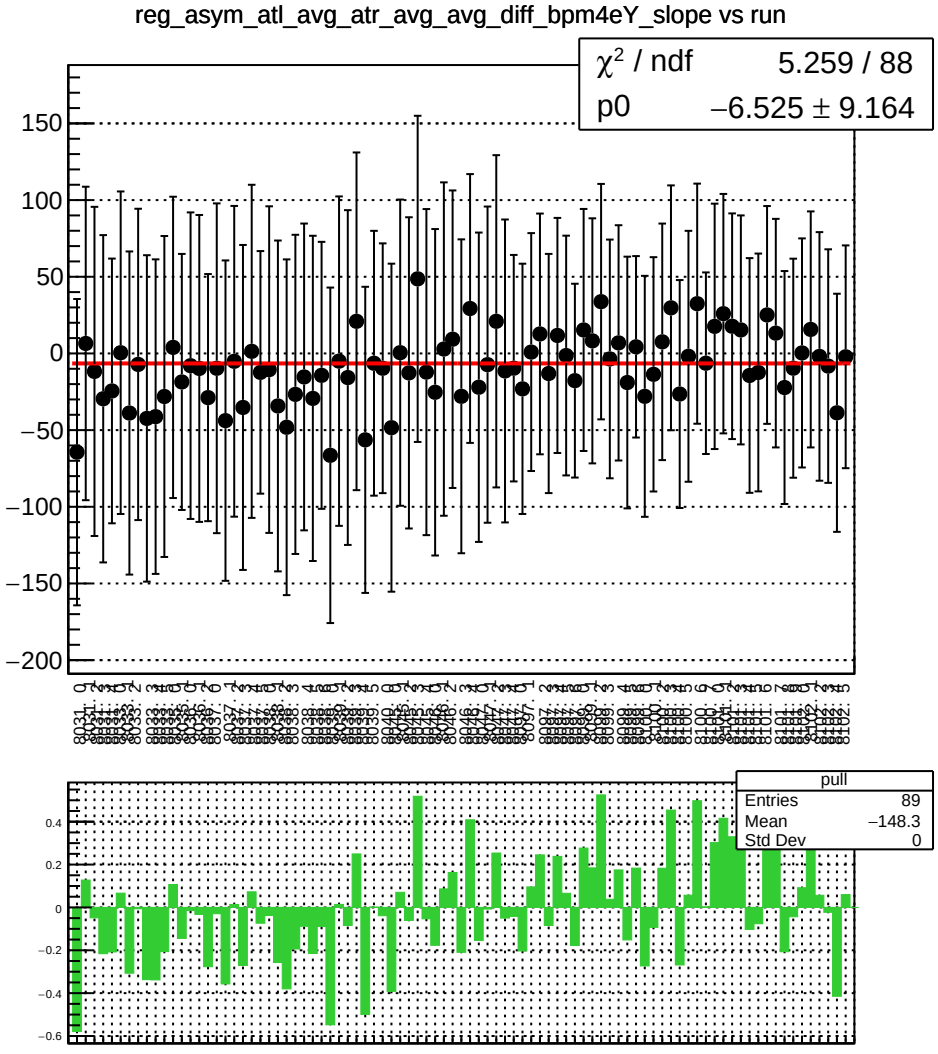

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 98.94 / 88
p0 −238.8 ± 5.313
pull
Entries 89
Mean −642
Std Dev 0
pull1D
Entries 89
Mean −0.03517
Std Dev 1.054

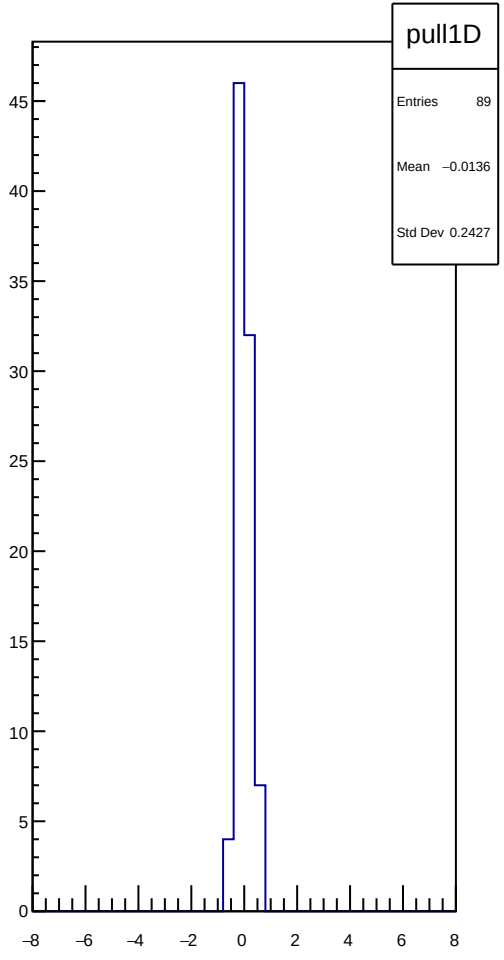

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.698 / 88
p0 57.33 ± 8.611
pull
Entries 89
Mean −126.5
Std Dev 0

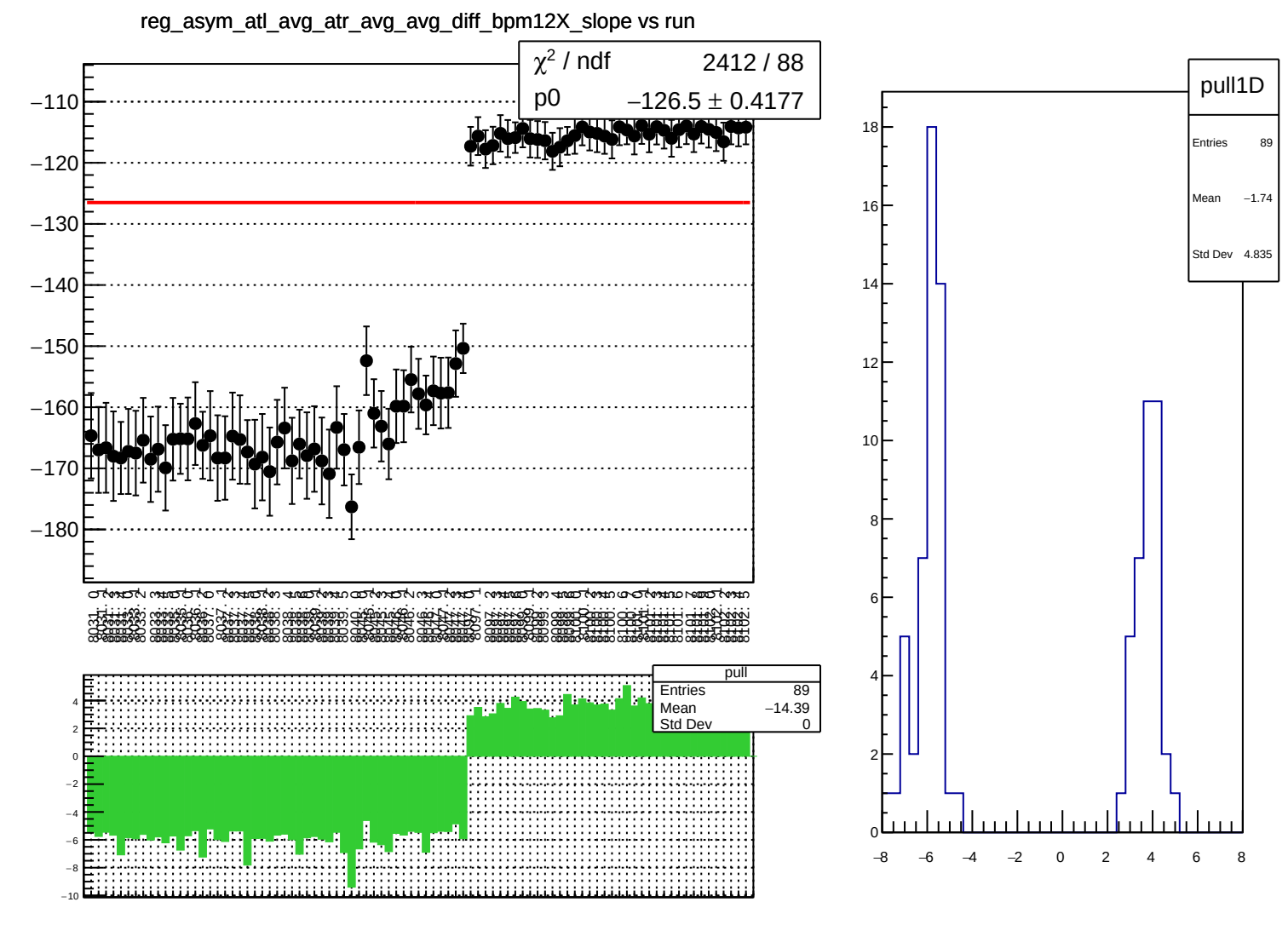

pull1D
Entries 89
Mean 0.0275
Std Dev 0.2928

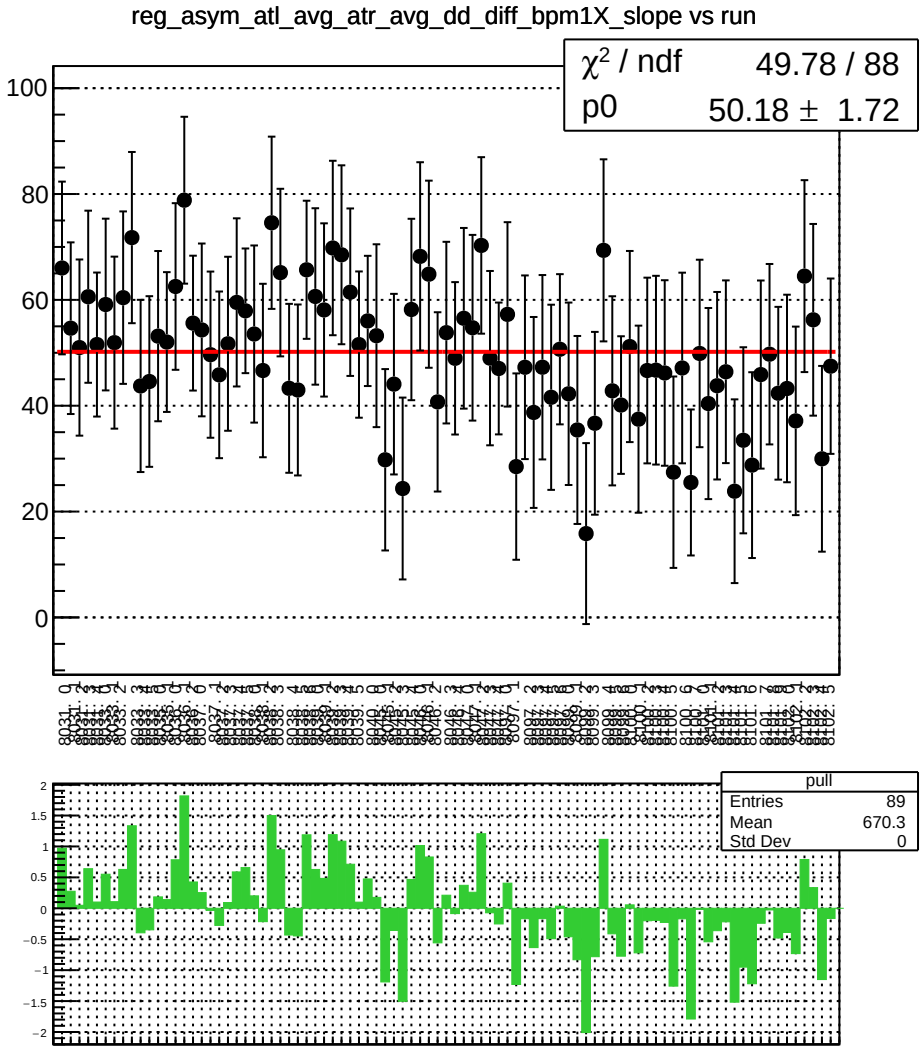

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 61.83 / 88
p0 200.9 ± 5.506
350
300
250
200
150
100
pull
Entries 89
Mean −145.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1

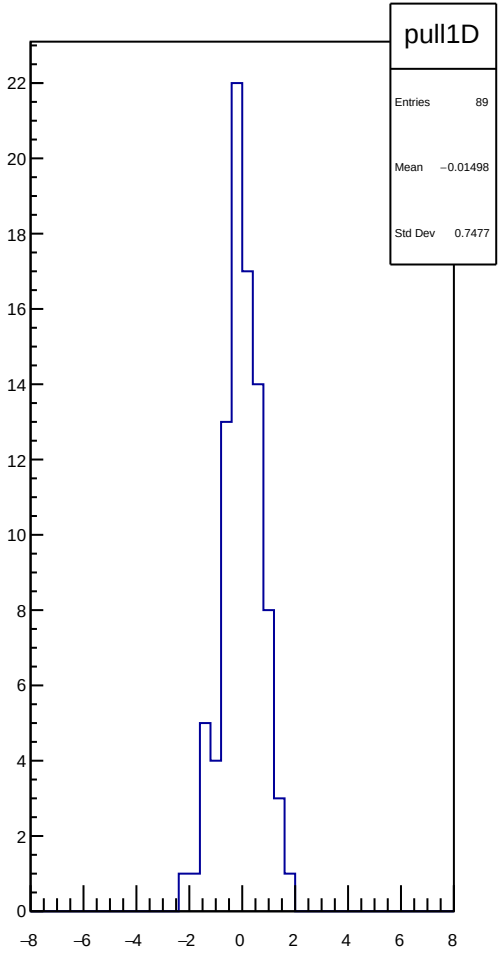

pull1D
Entries 89
Mean 0.09816
Std Dev 0.8277
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

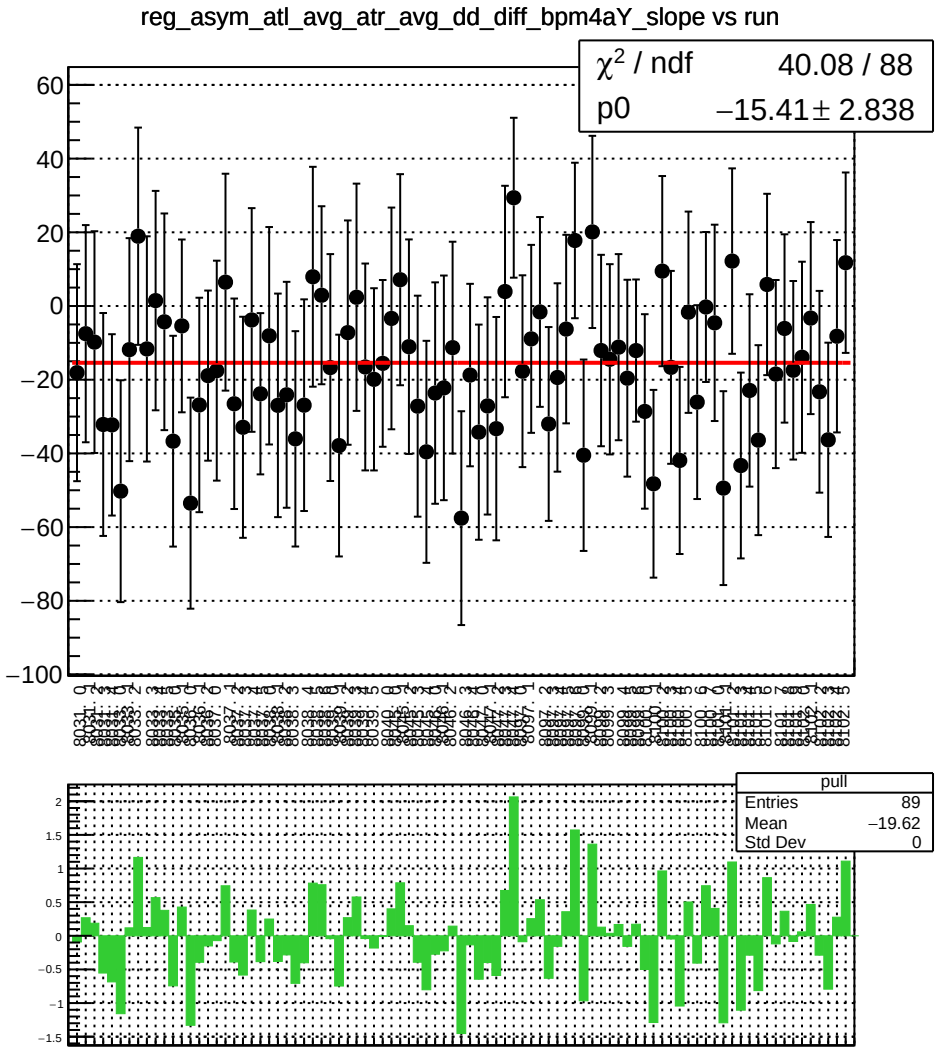

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.259 / 88
p0 −6.525 ± 9.164
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean −148.3
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6

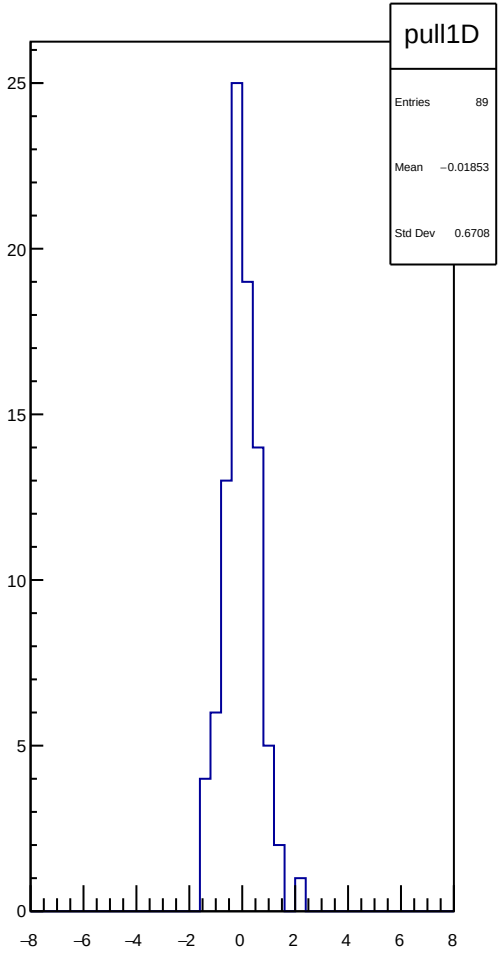

pull1D
Entries 89
Mean −0.0136
Std Dev 0.2427
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

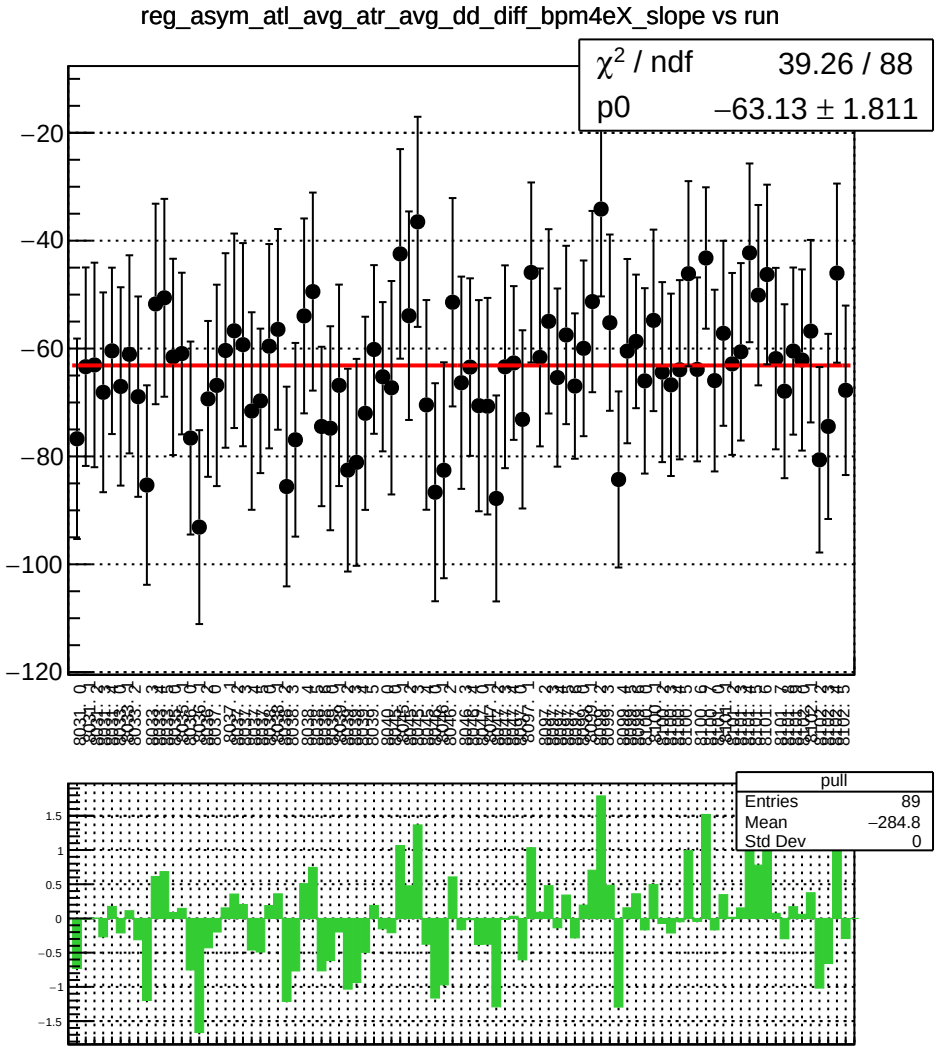

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 2412 / 88
p0 −126.5 ± 0.4177
pull
Entries 89
Mean −14.39
Std Dev 0
pull1D
Entries 89
Mean −1.74
Std Dev 4.835

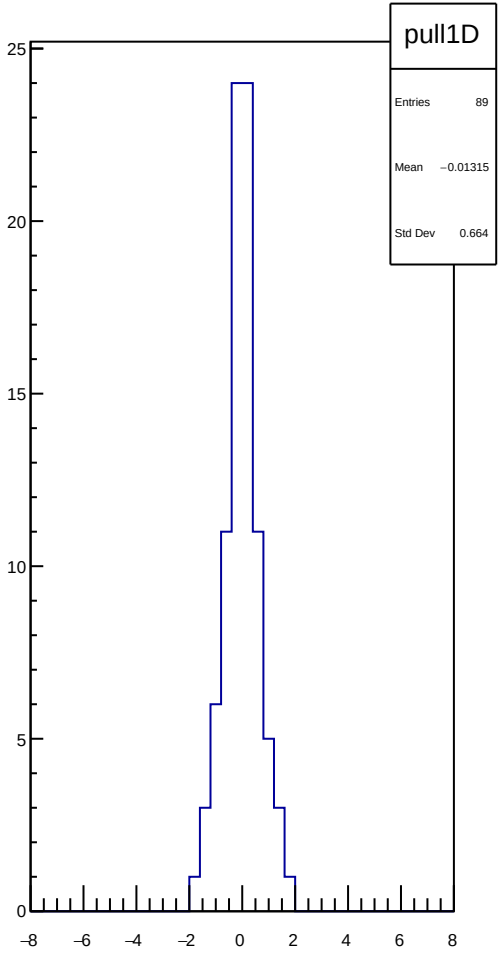

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 49.78 / 88
p0 50.18 ± 1.72
pull
Entries 89
Mean 670.3
Std Dev 0

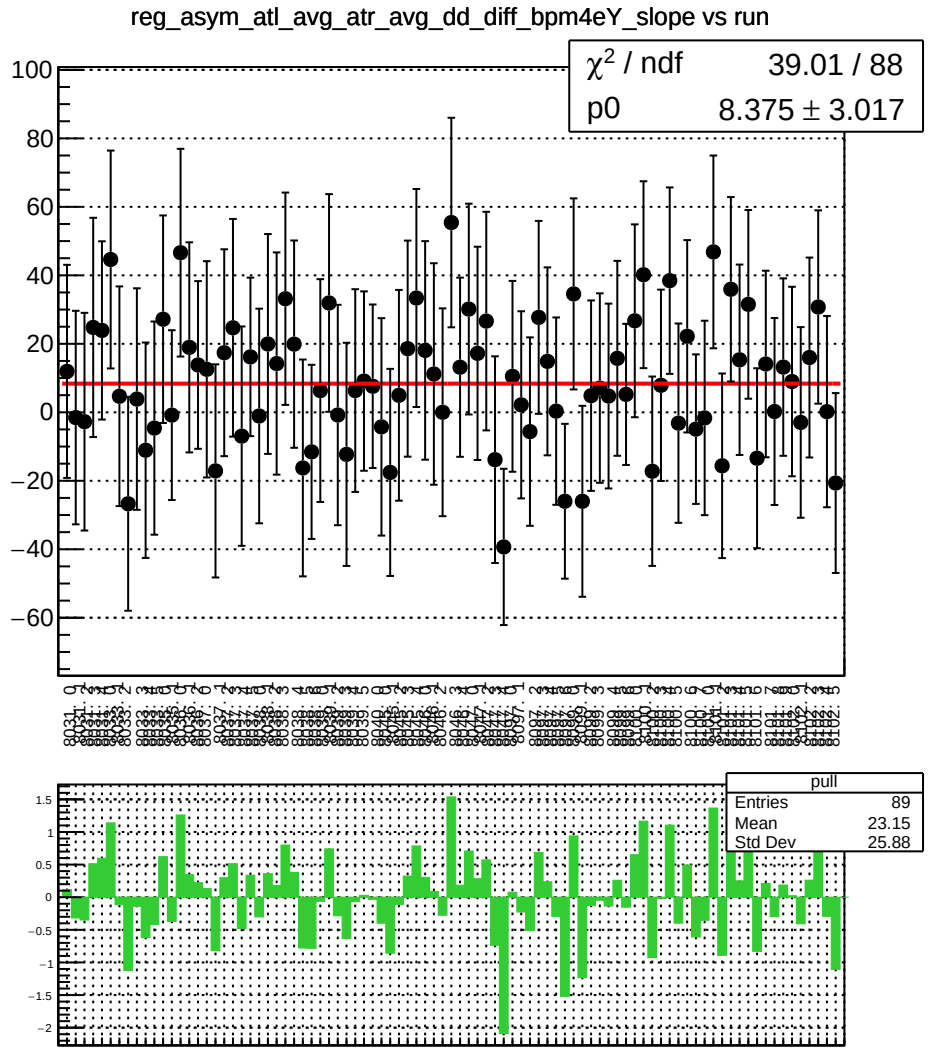

pull1D
Entries 89
Mean −0.01498
Std Dev 0.7477

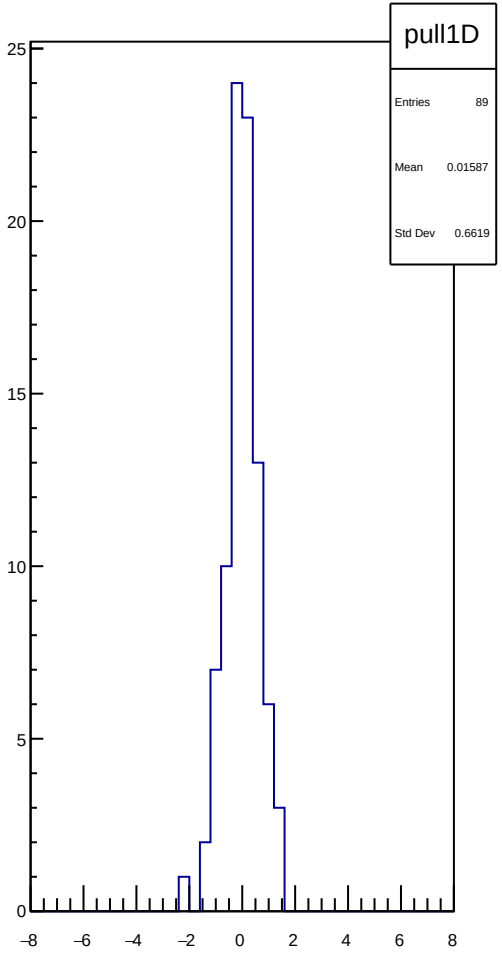

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 40.08 / 88
p0 −15.41± 2.838
pull
Entries 89
Mean −19.62
Std Dev 0

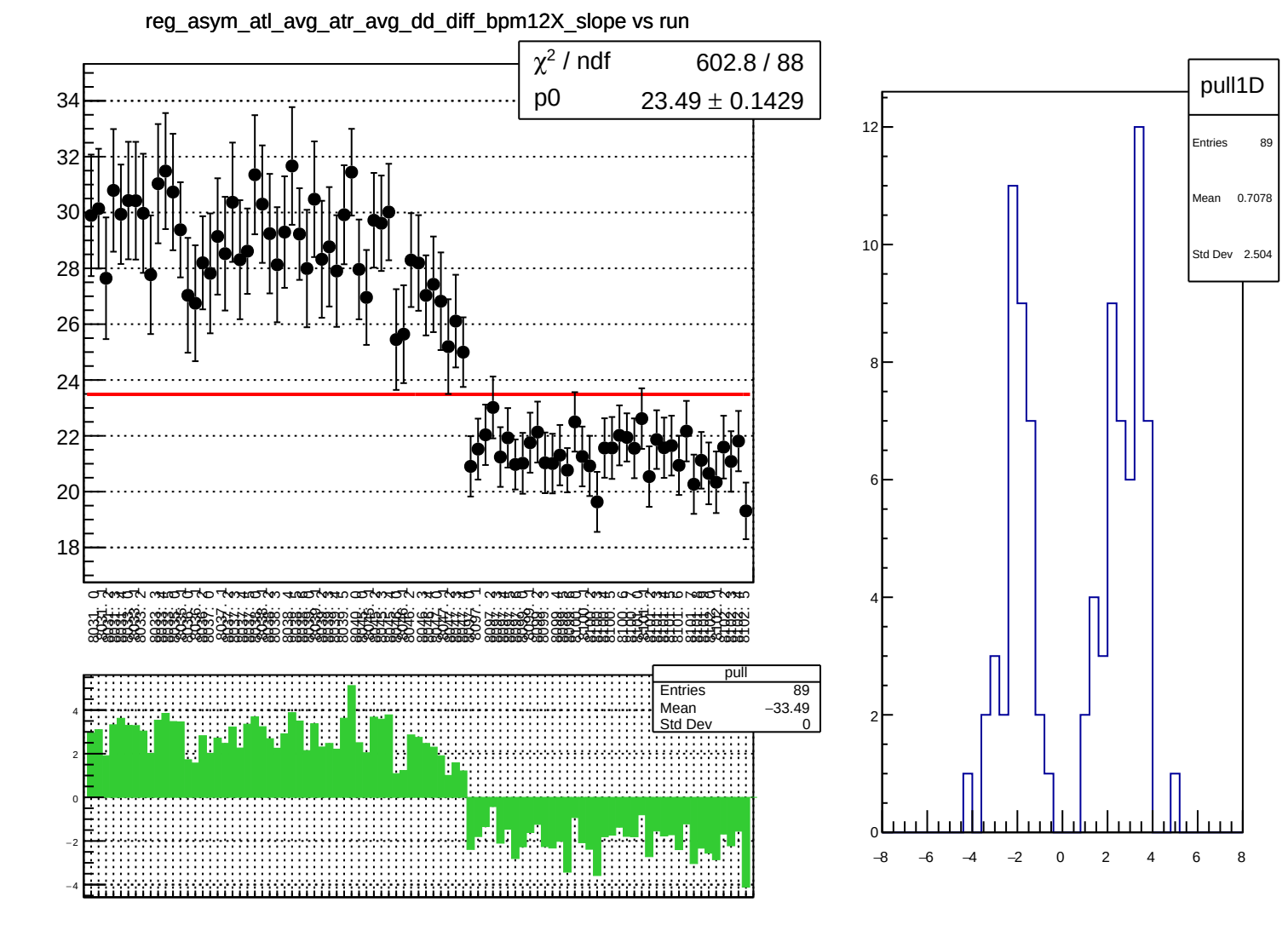

pull1D
Entries 89
Mean −0.01853
Std Dev 0.6708

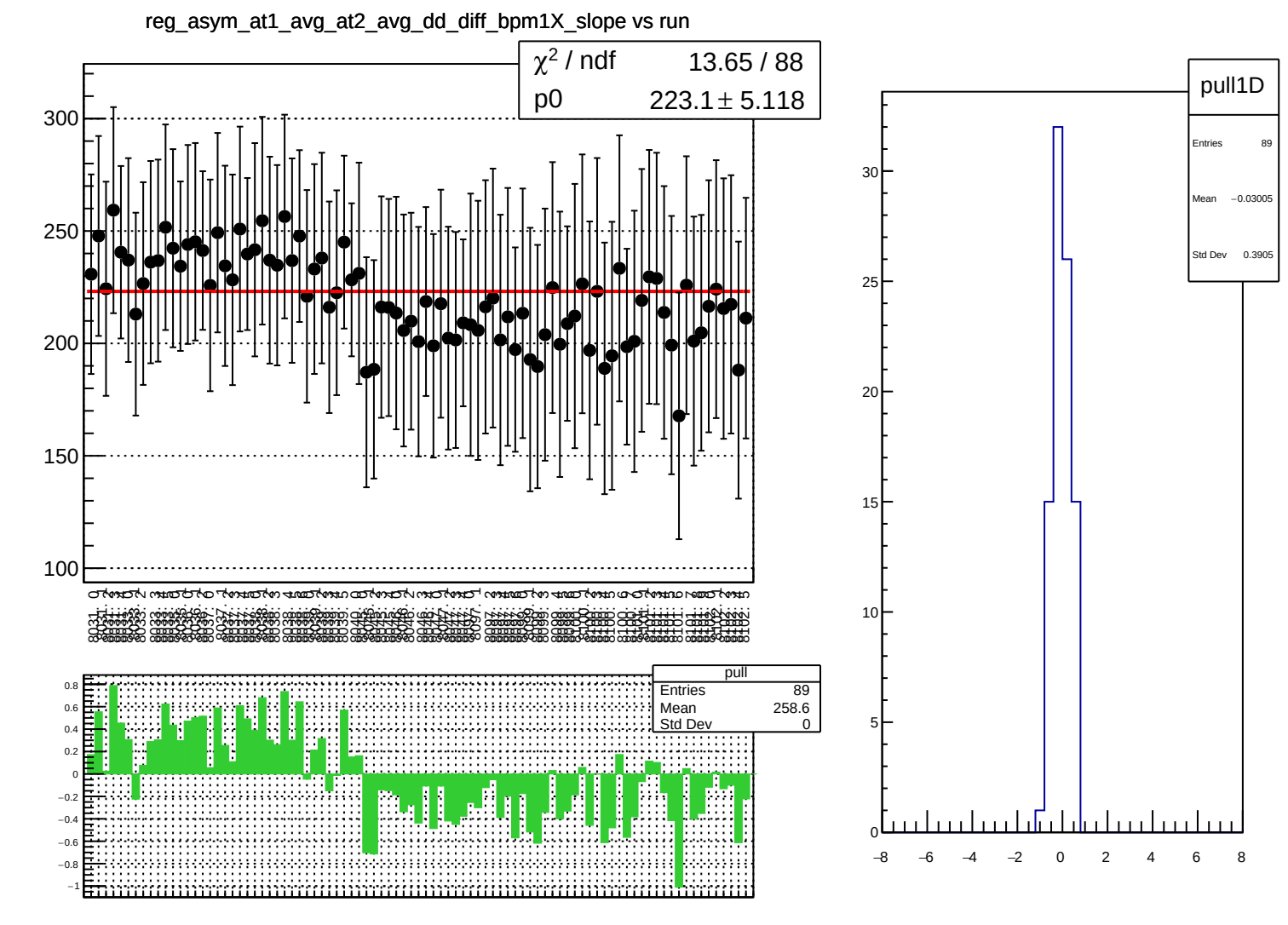

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 39.26 / 88
p0 −63.13 ± 1.811
pull
Entries 89
Mean −284.8
Std Dev 0

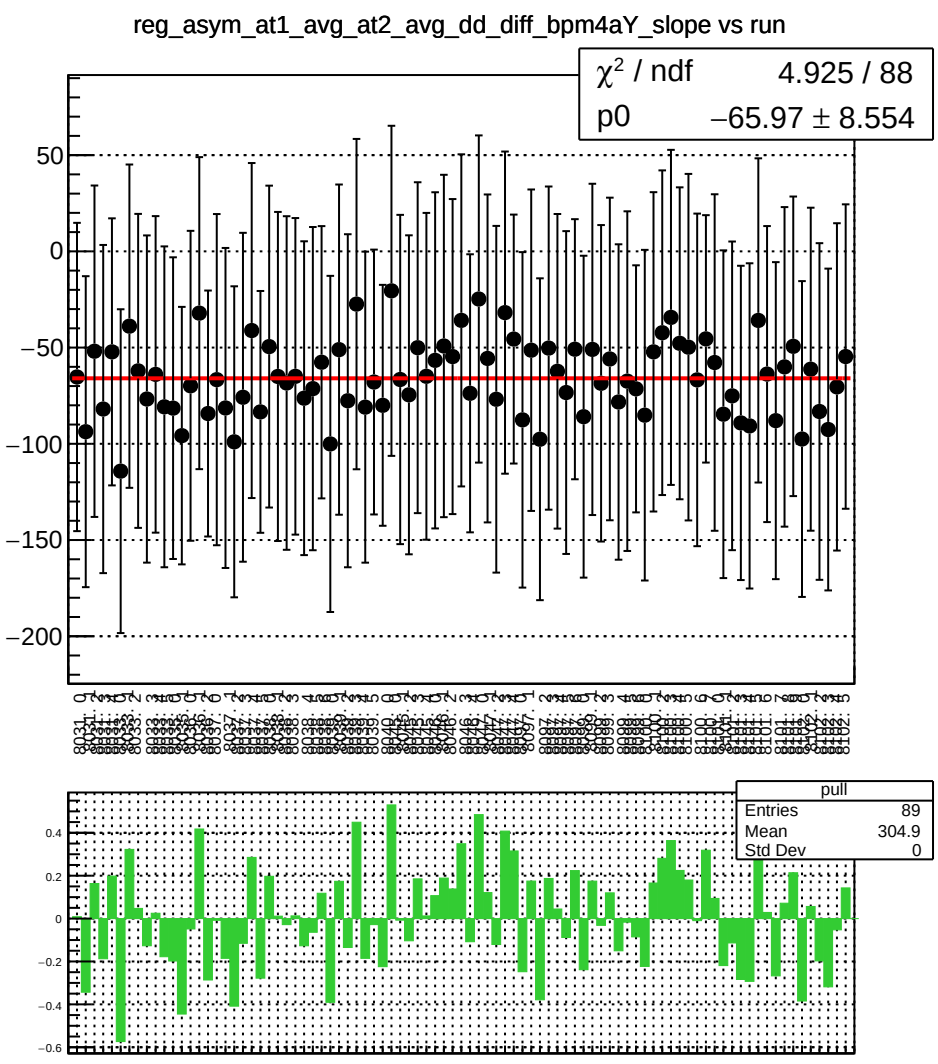

pull1D
Entries 89
Mean −0.01315
Std Dev 0.664

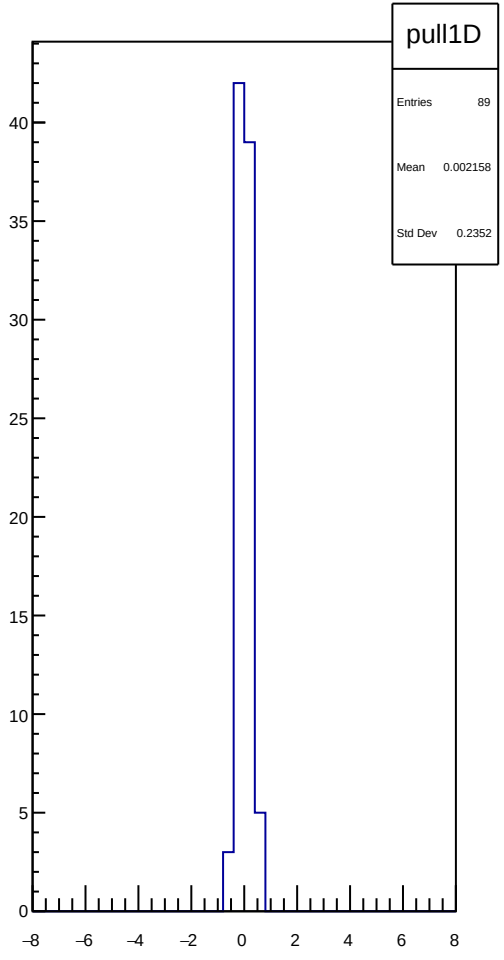

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 39.01 / 88
p0 8.375 ± 3.017
pull
Entries 89
Mean 23.15
Std Dev 25.88

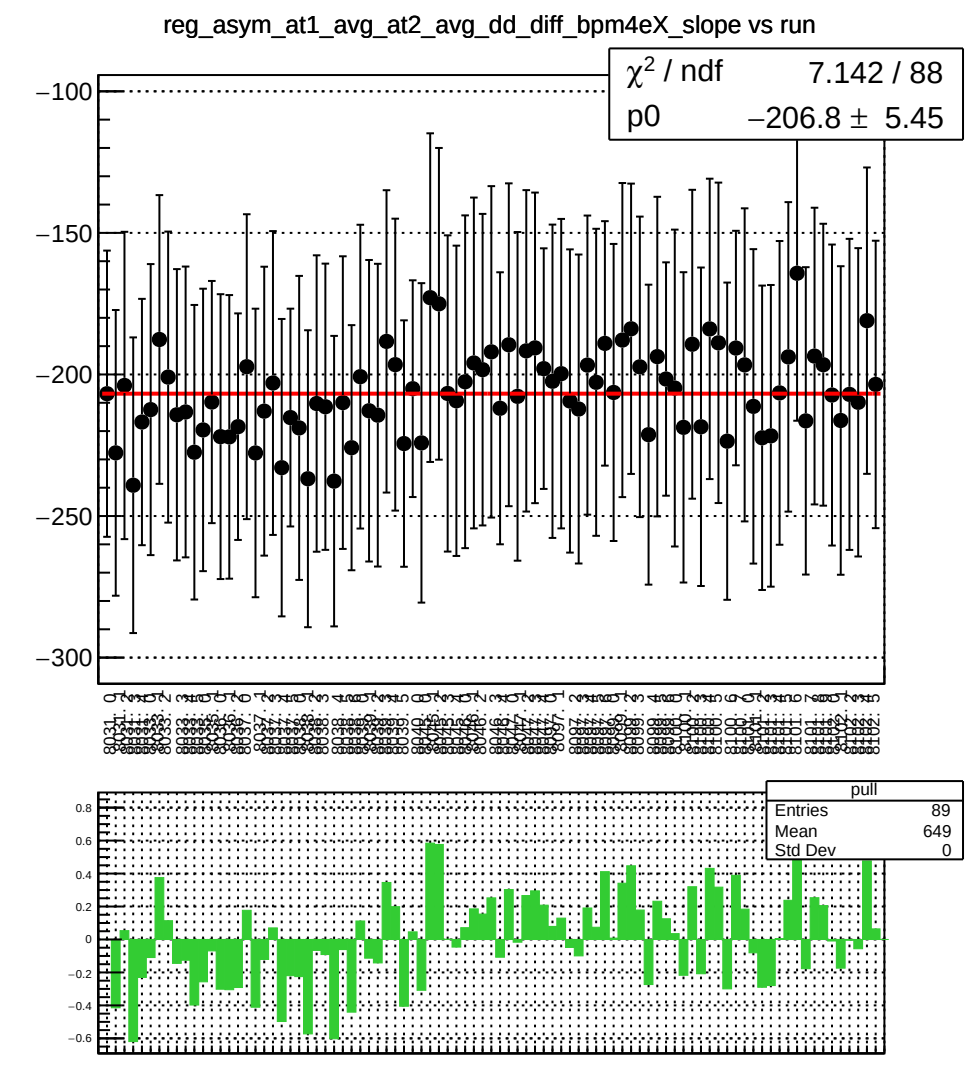

pull1D
Entries 89
Mean 0.01587
Std Dev 0.6619

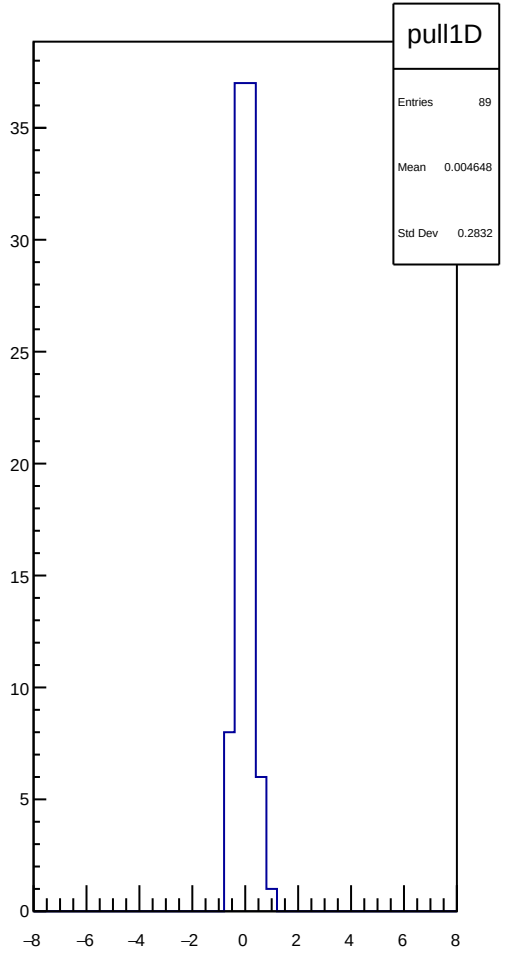

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 602.8 / 88
p0 23.49 ± 0.1429
pull
Entries 89
Mean −33.49
Std Dev 0
pull1D
Entries 89
Mean 0.7078
Std Dev 2.504

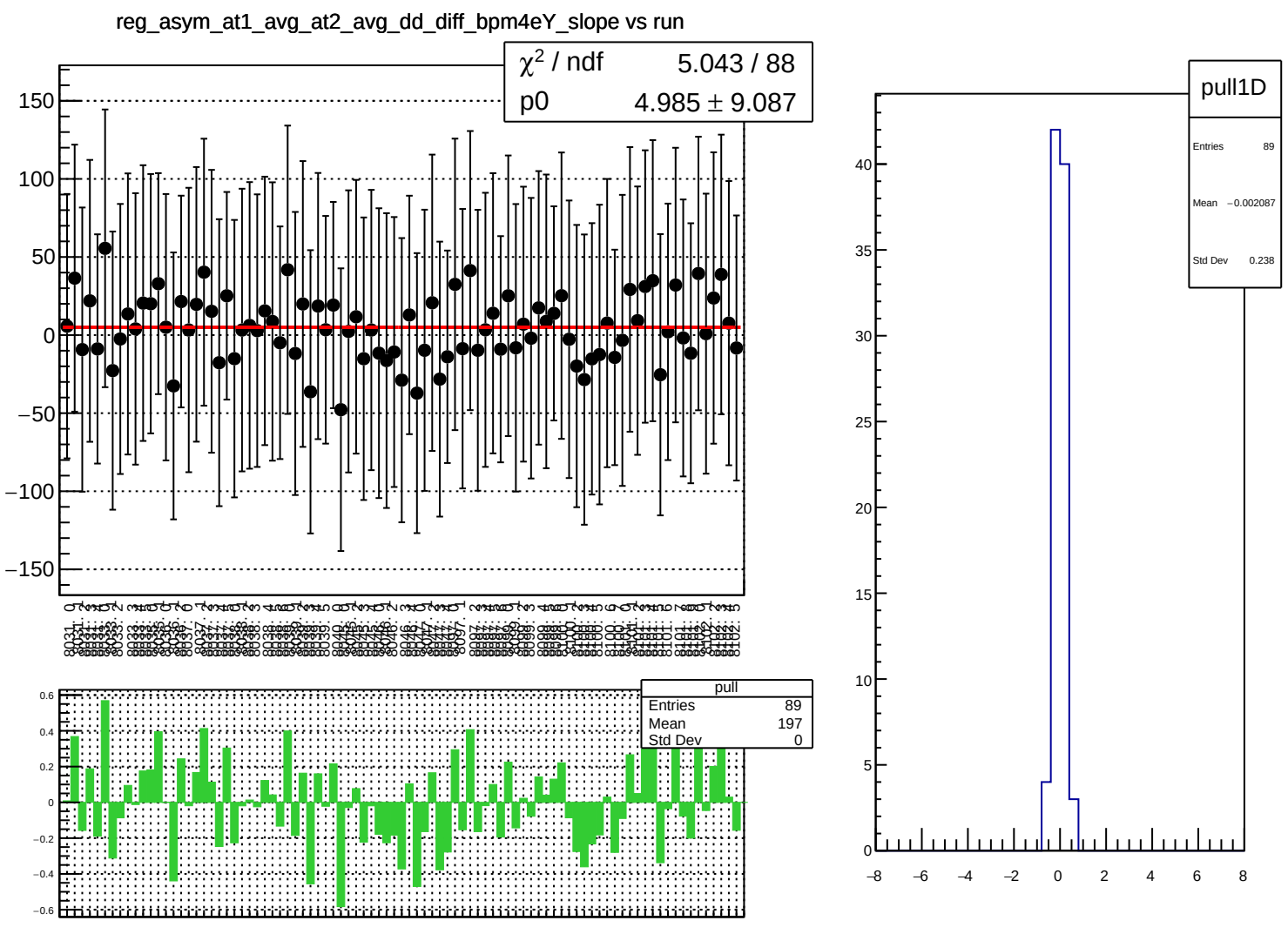

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 13.65 / 88
p0 223.1 ± 5.118
300
250
200
150
100
pull
Entries 89
Mean 258.6
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 89
Mean −0.03005
Std Dev 0.3905
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

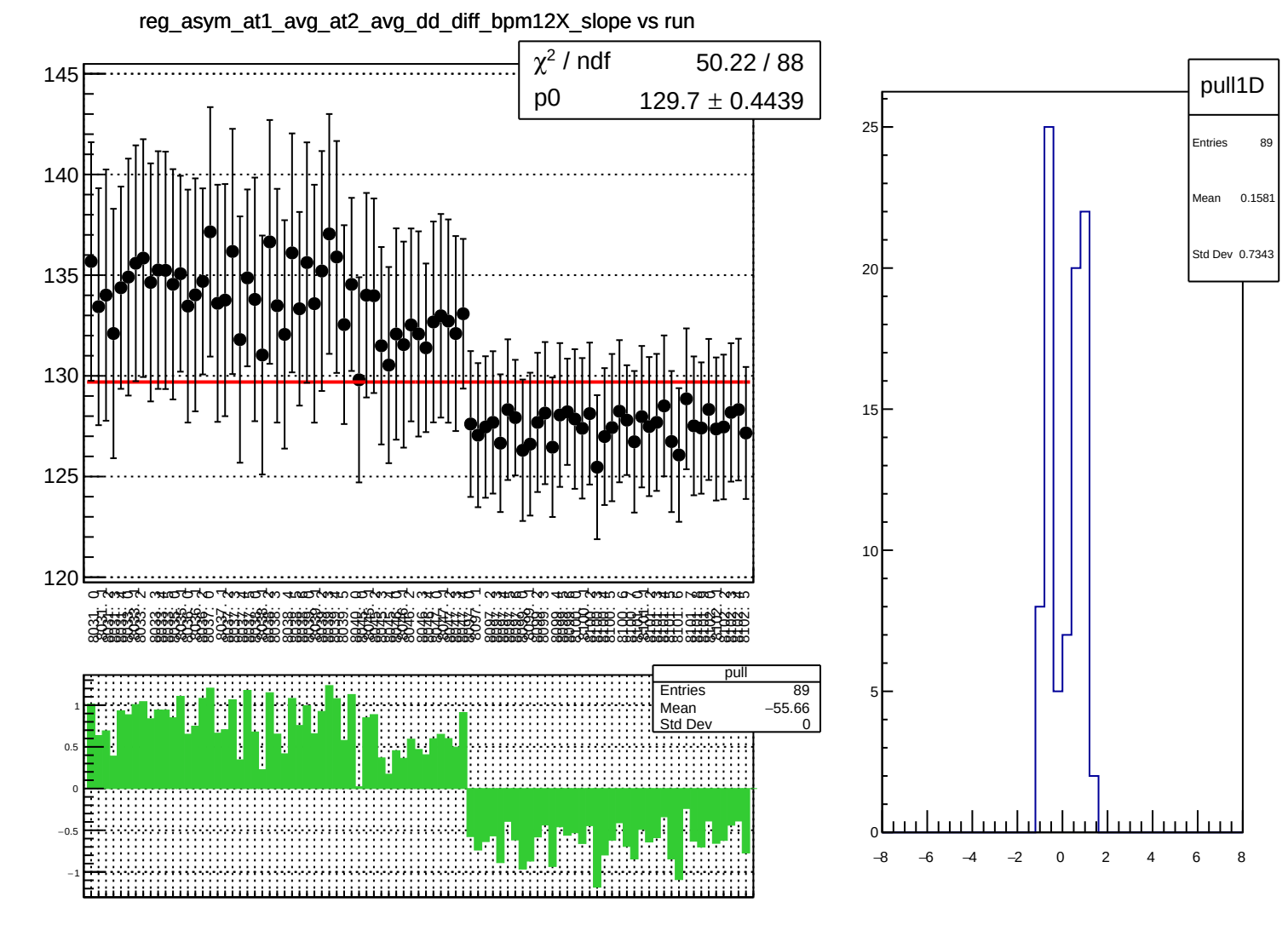

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.925 / 88
p0 −65.97 ± 8.554
50
0
−50
−100
−150
−200
pull
Entries 89
Mean 304.9
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6

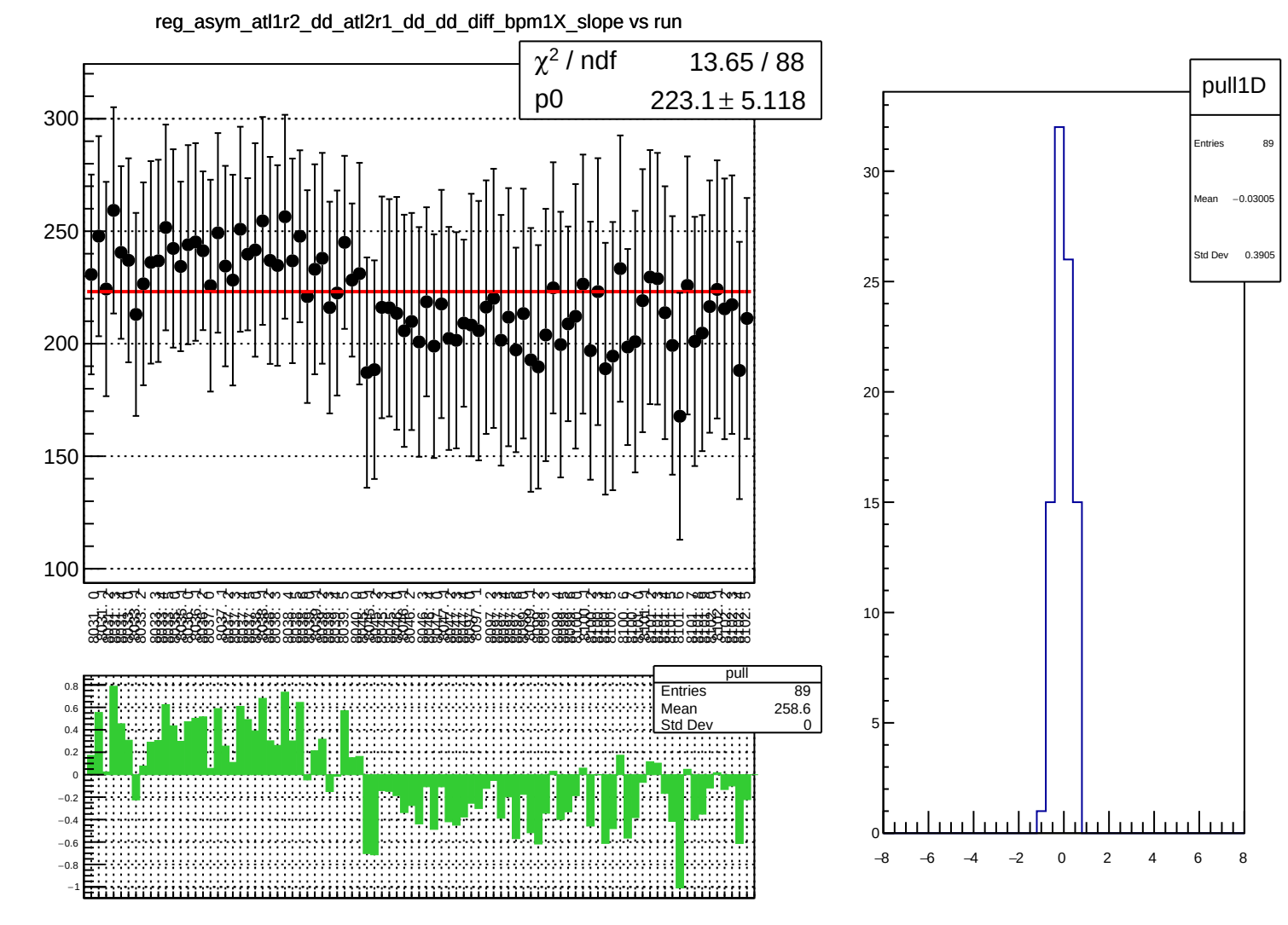

pull1D
Entries 89
Mean 0.002158
Std Dev 0.2352
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

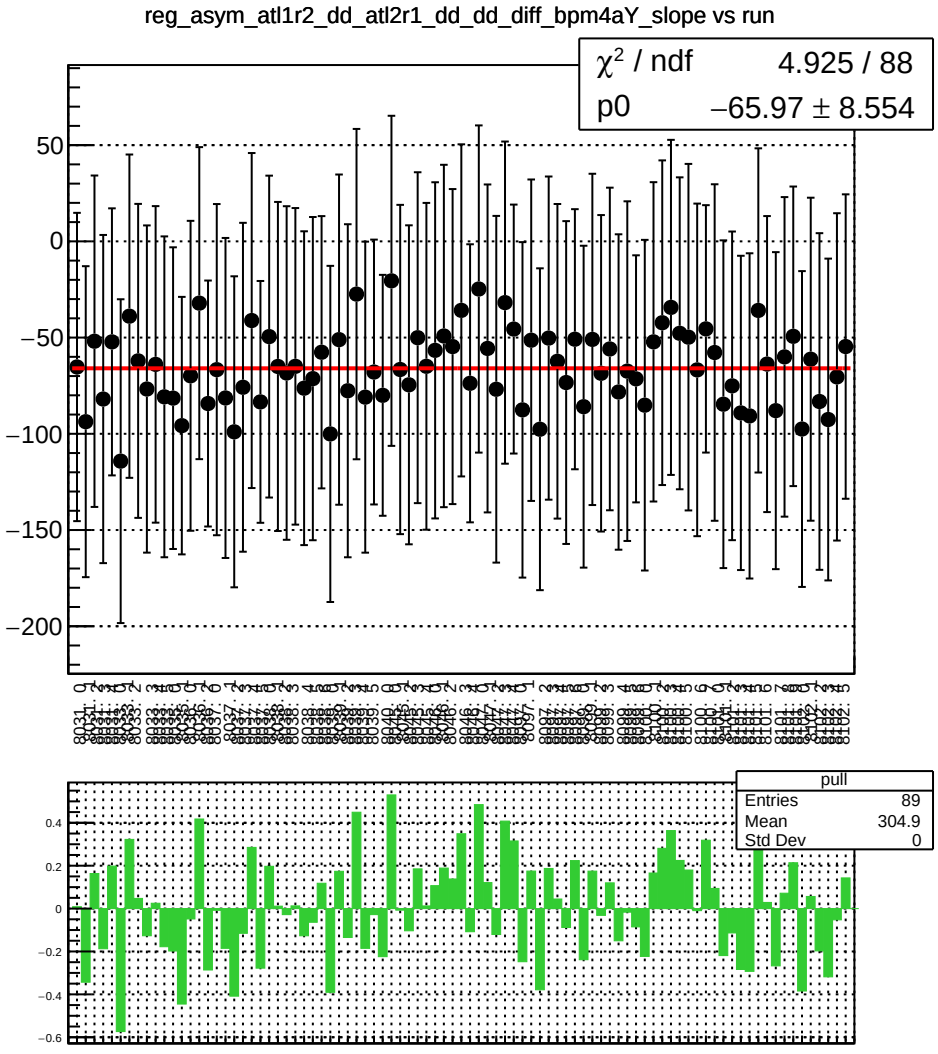

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.142 / 88
p0 −206.8 ± 5.45
−100
−150
−200
−250
−300
pull
Entries 89
Mean 649
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

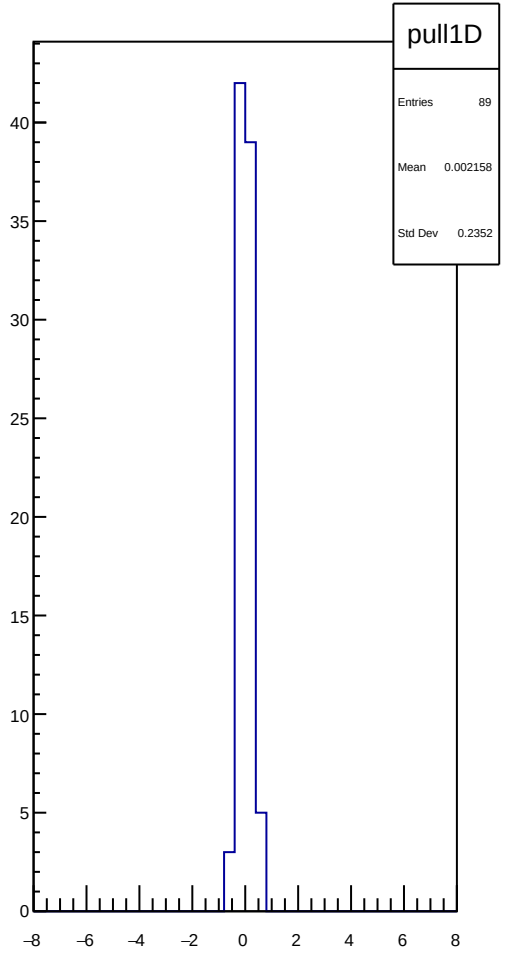

pull1D
Entries 89
Mean 0.004648
Std Dev 0.2832
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

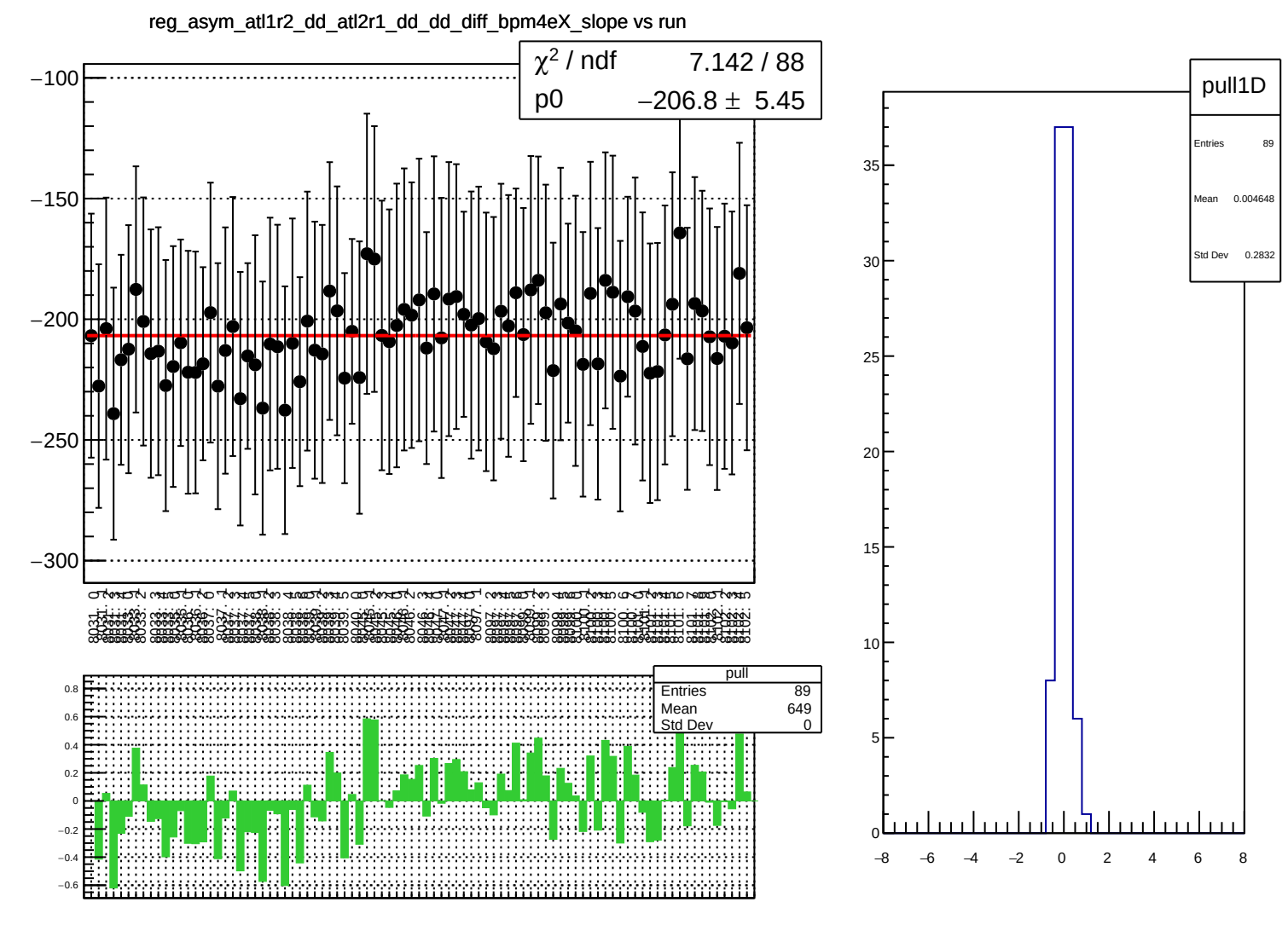

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.043 / 88
p0 4.985 ± 9.087
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean 197
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 89
Mean −0.002087
Std Dev 0.238
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

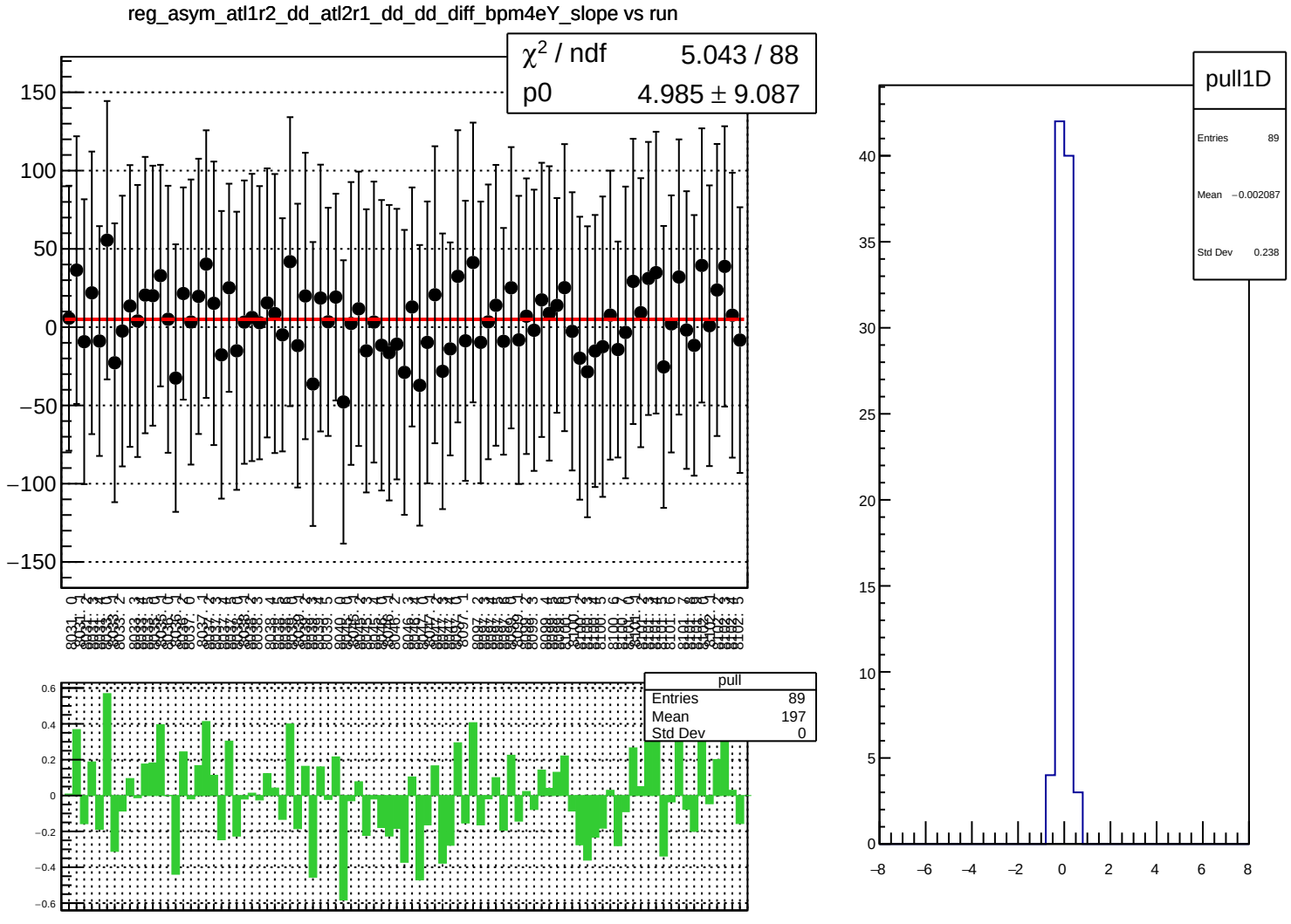

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 50.22 / 88
p0 129.7 ± 0.4439
145
140
135
130
125
120
pull
Entries 89
Mean −55.66
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean 0.1581
Std Dev 0.7343
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

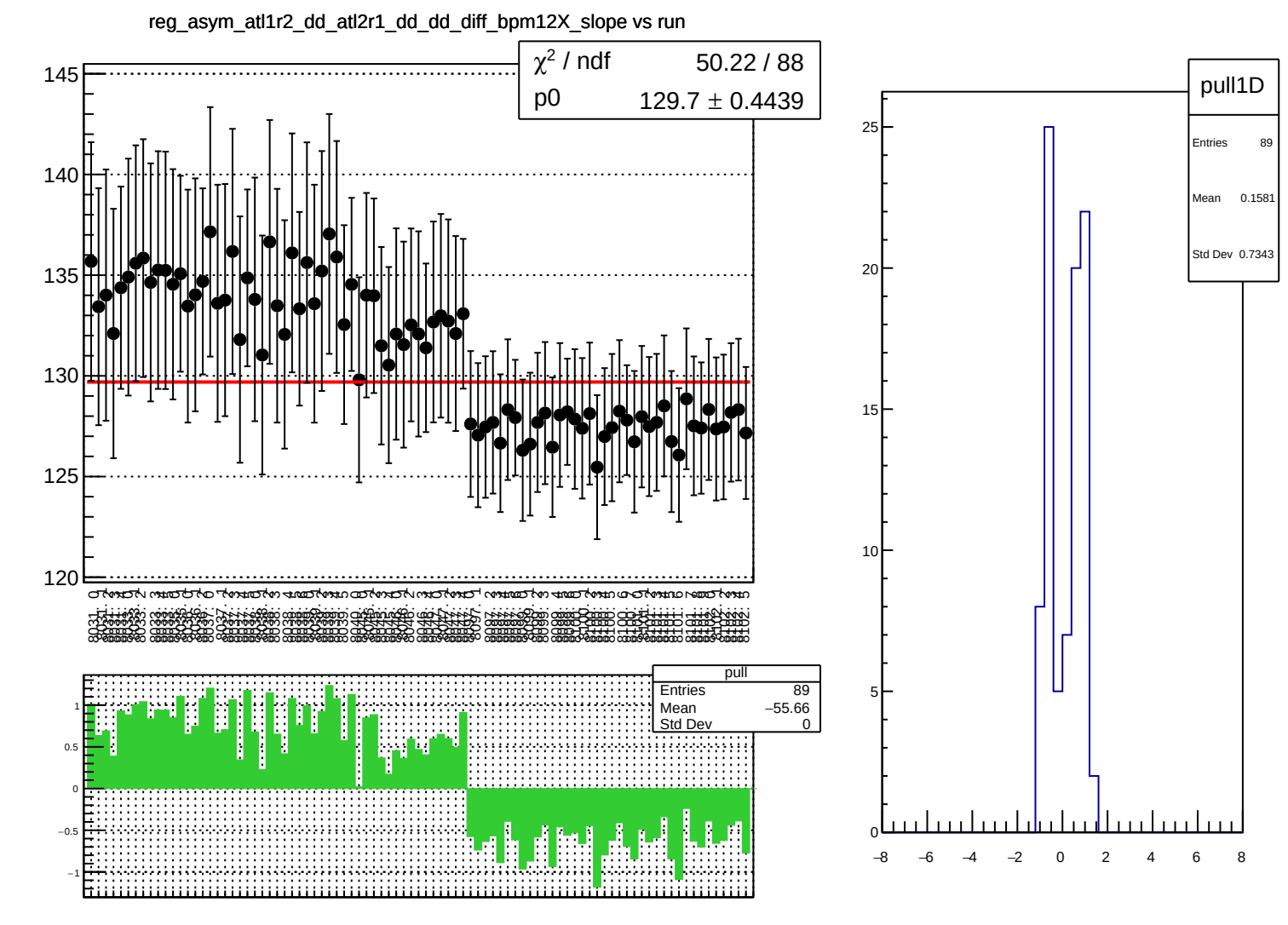

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 13.65 / 88
p0 223.1 ± 5.118
300
250
200
150
100
pull
Entries 89
Mean 258.6
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 89
Mean −0.03005
Std Dev 0.3905
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

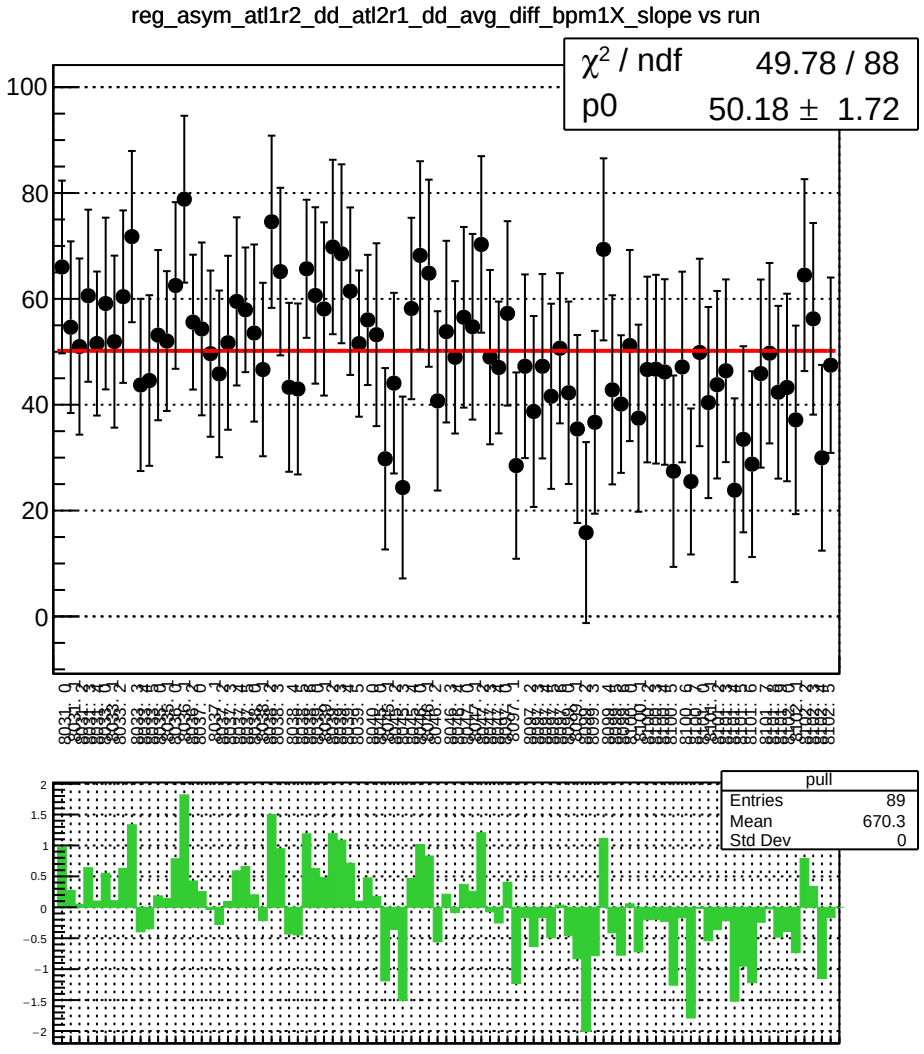

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.925 / 88
p0 −65.97 ± 8.554
50
0
−50
−100
−150
−200
pull
Entries 89
Mean 304.9
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6

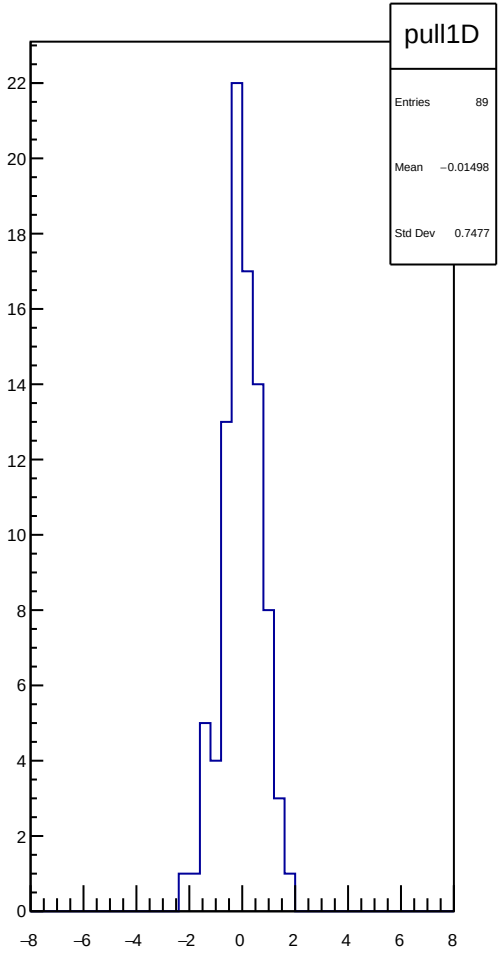

pull1D
Entries 89
Mean 0.002158
Std Dev 0.2352
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

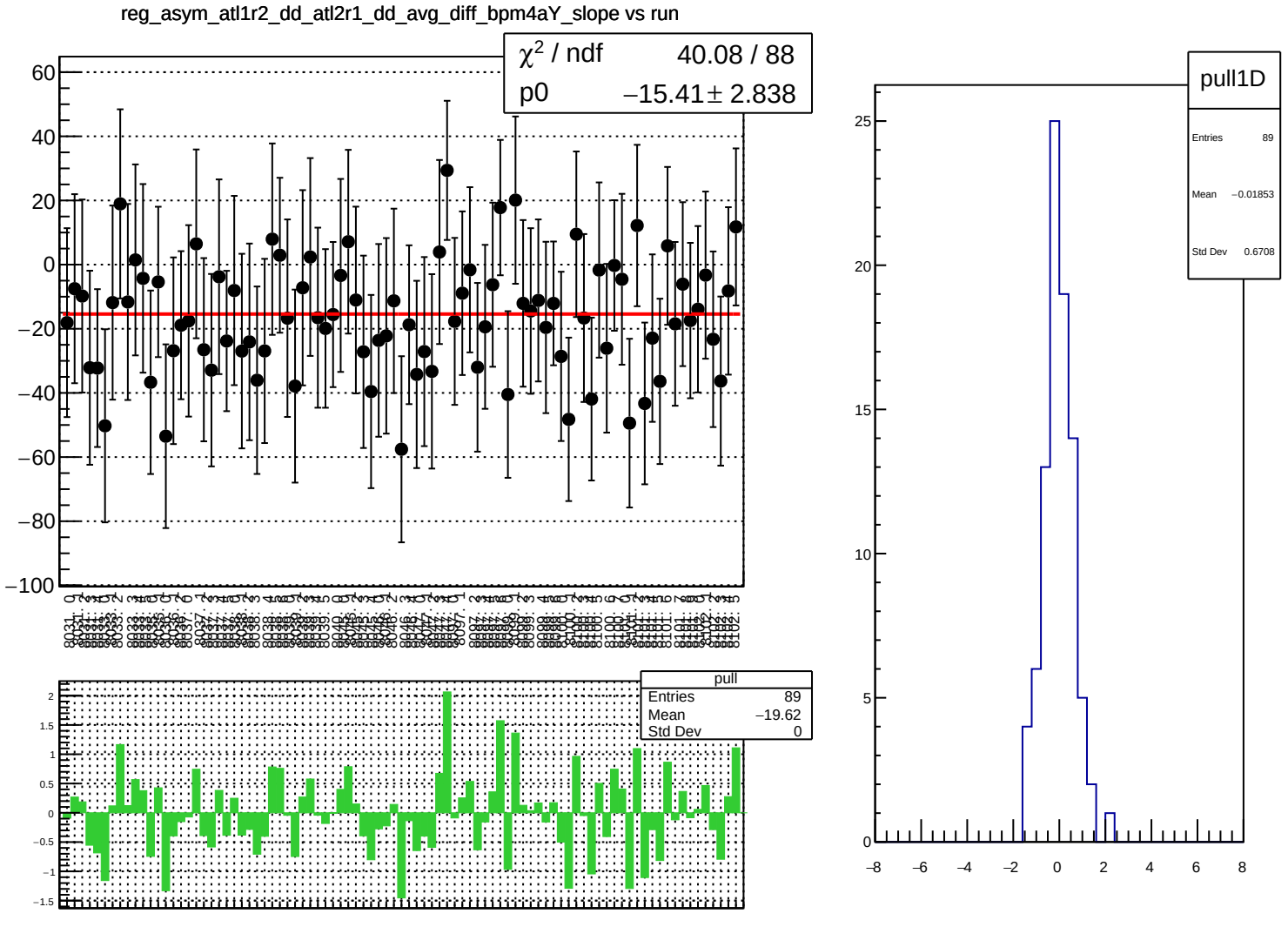

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.142 / 88
p0 −206.8 ± 5.45
−100
−150
−200
−250
−300
pull
Entries 89
Mean 649
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 89
Mean 0.004648
Std Dev 0.2832
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

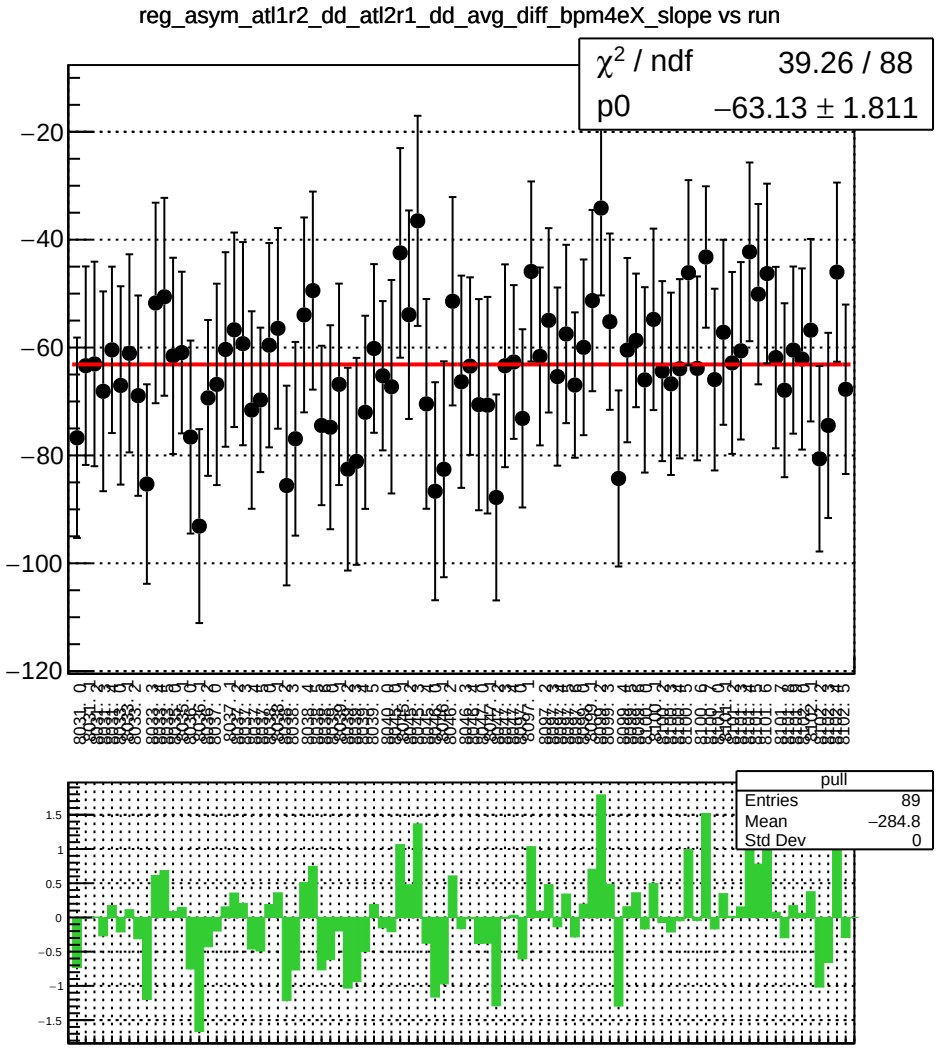

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.043 / 88
p0 4.985 ± 9.087
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean 197
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 89
Mean −0.002087
Std Dev 0.238
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

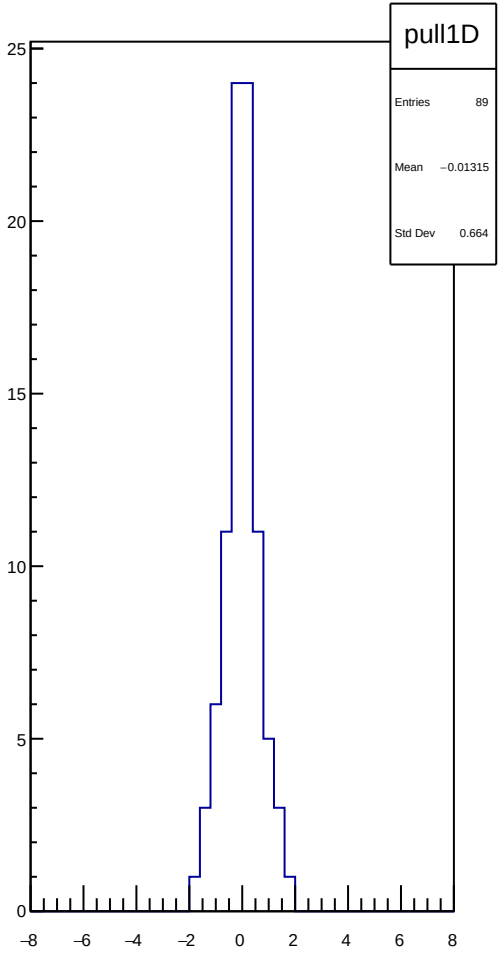

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 50.22 / 88
p0 129.7 ± 0.4439
145
140
135
130
125
120
pull
Entries 89
Mean −55.66
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean 0.1581
Std Dev 0.7343
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

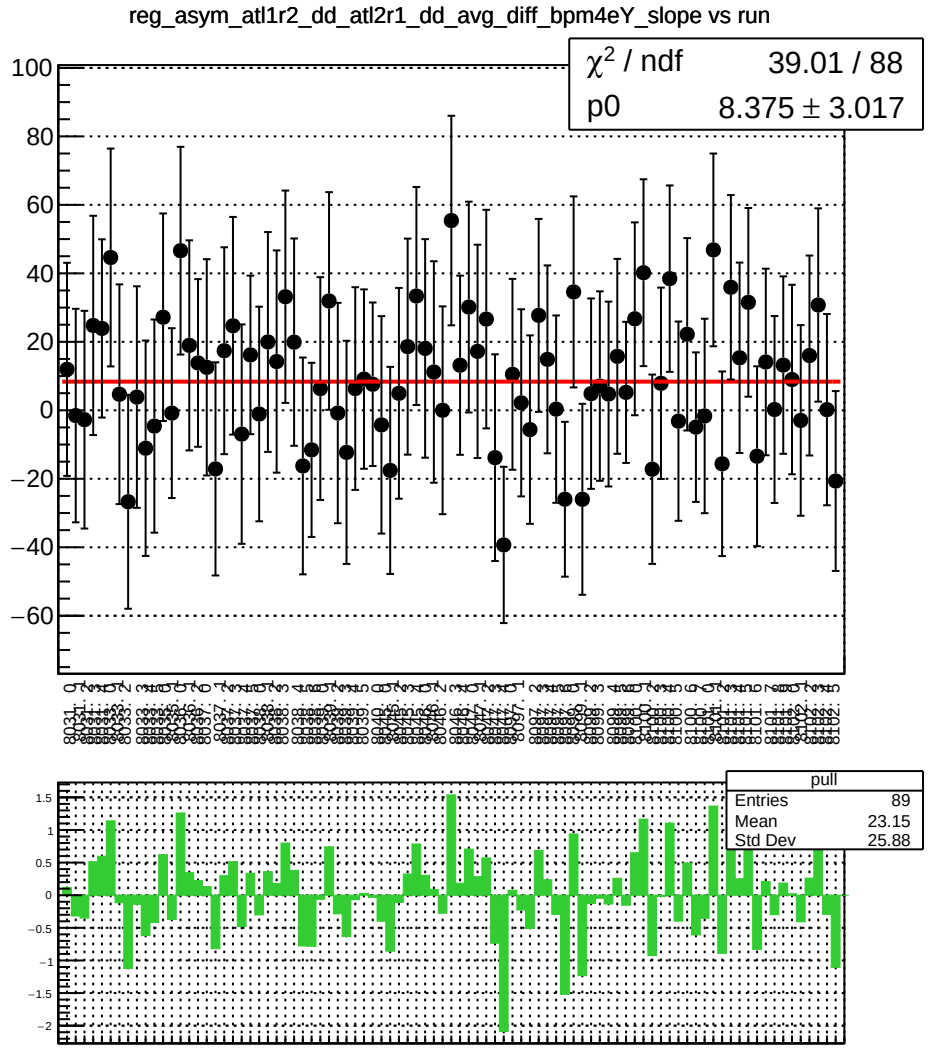

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 49.78 / 88
p0 50.18 ± 1.72
pull
Entries 89
Mean 670.3
Std Dev 0

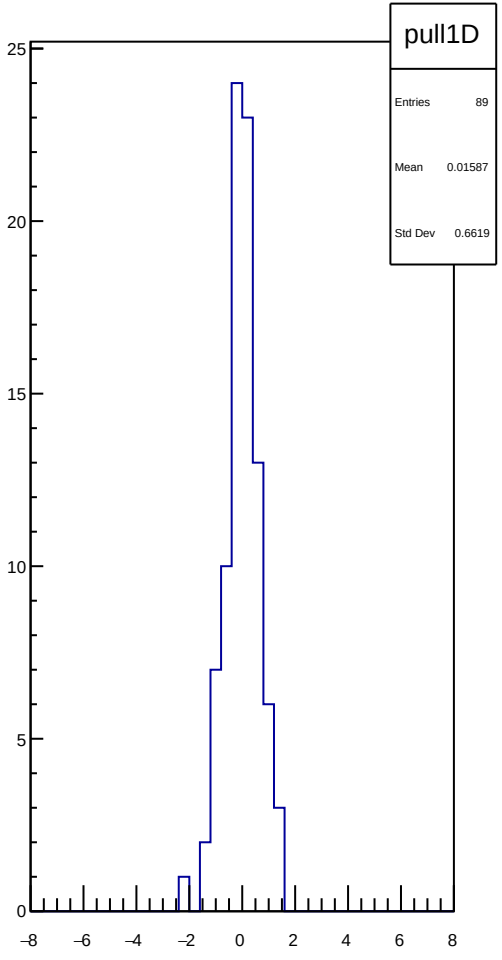

pull1D
Entries 89
Mean −0.01498
Std Dev 0.7477

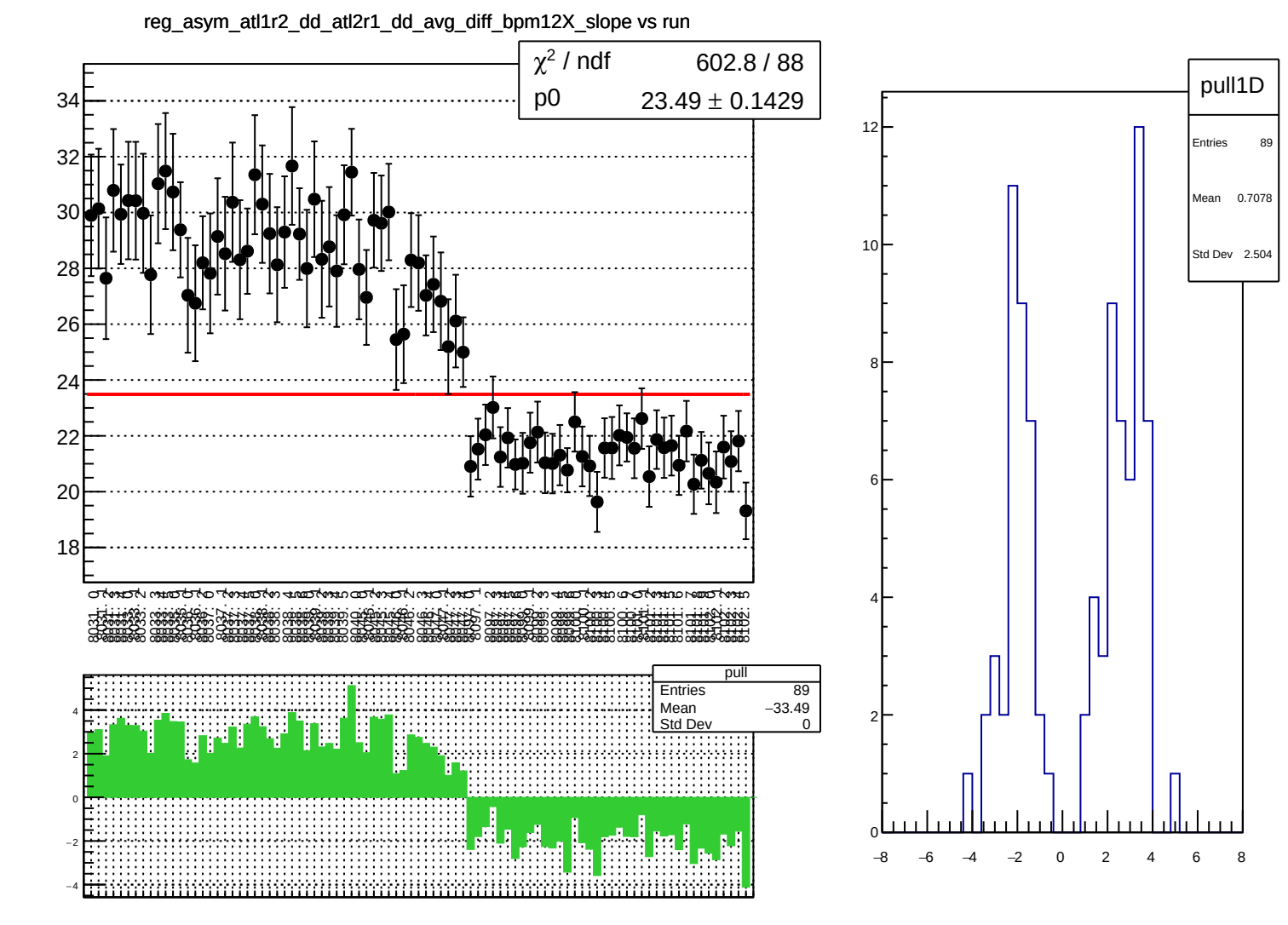

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 40.08 / 88
p0 −15.41 ± 2.838
pull
Entries 89
Mean −19.62
Std Dev 0
pull1D
Entries 89
Mean −0.01853
Std Dev 0.6708

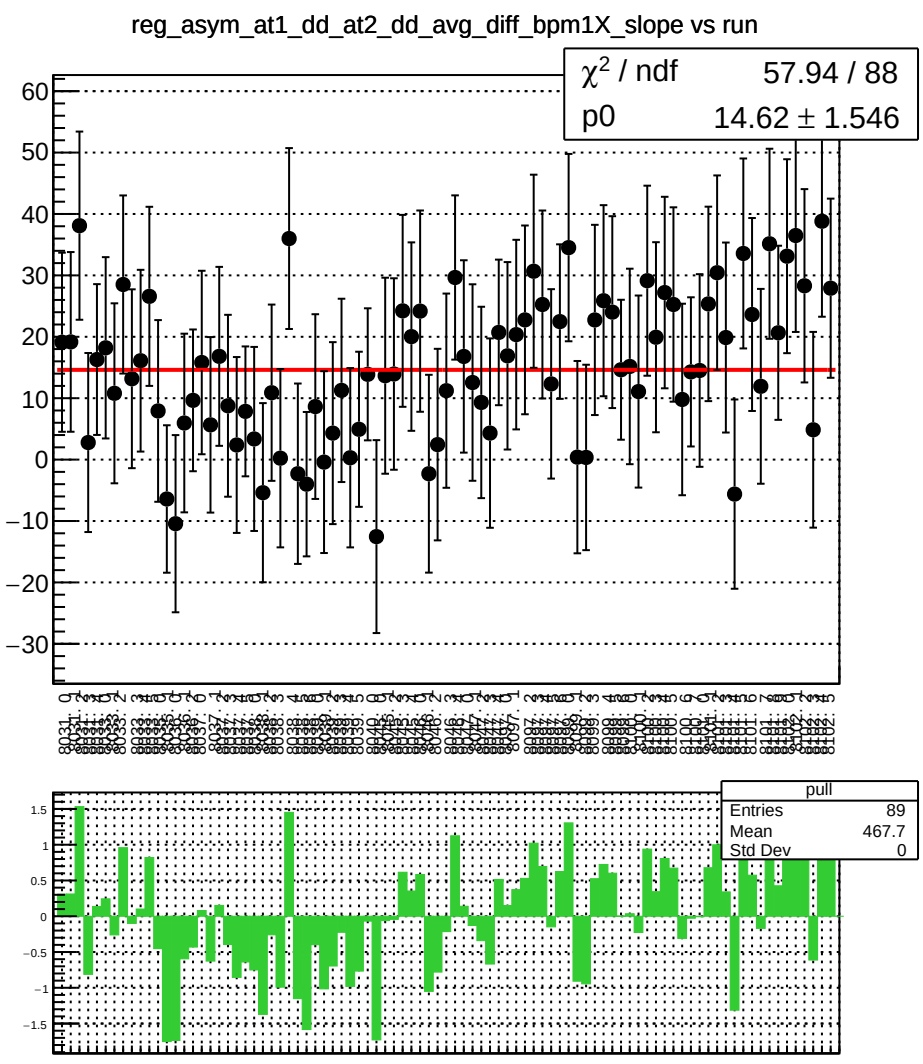

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 39.26 / 88
p0 −63.13 ± 1.811
pull
Entries 89
Mean −284.8
Std Dev 0

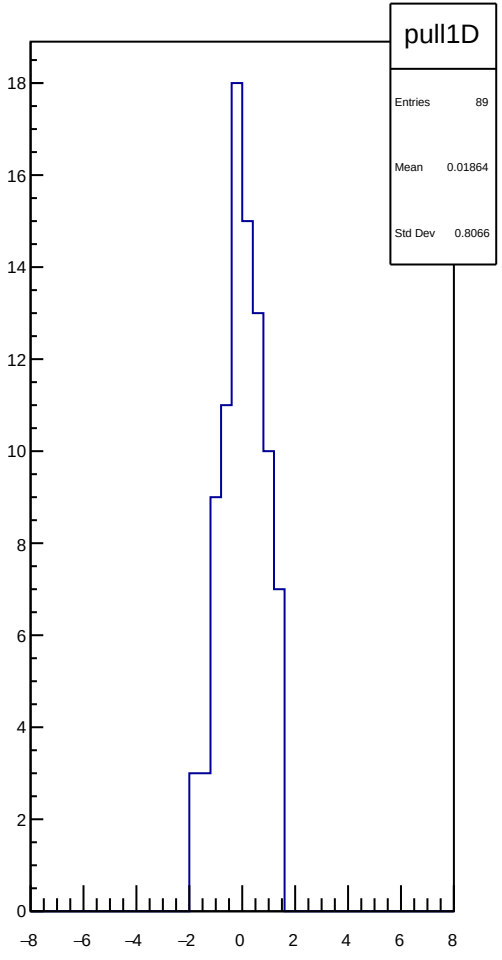

pull1D
Entries 89
Mean −0.01315
Std Dev 0.664

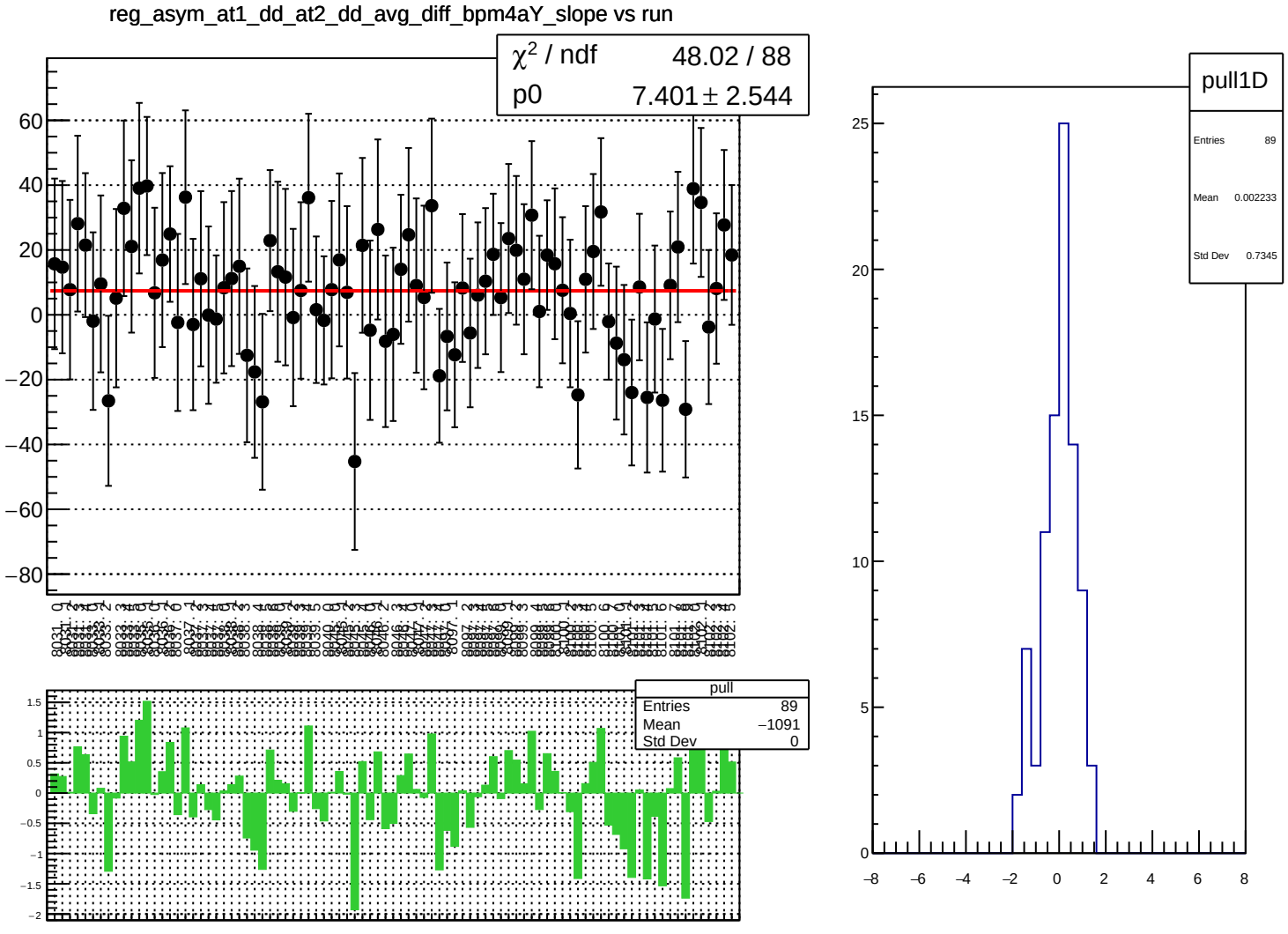

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 39.01 / 88
p0 8.375 ± 3.017
pull
Entries 89
Mean 23.15
Std Dev 25.88

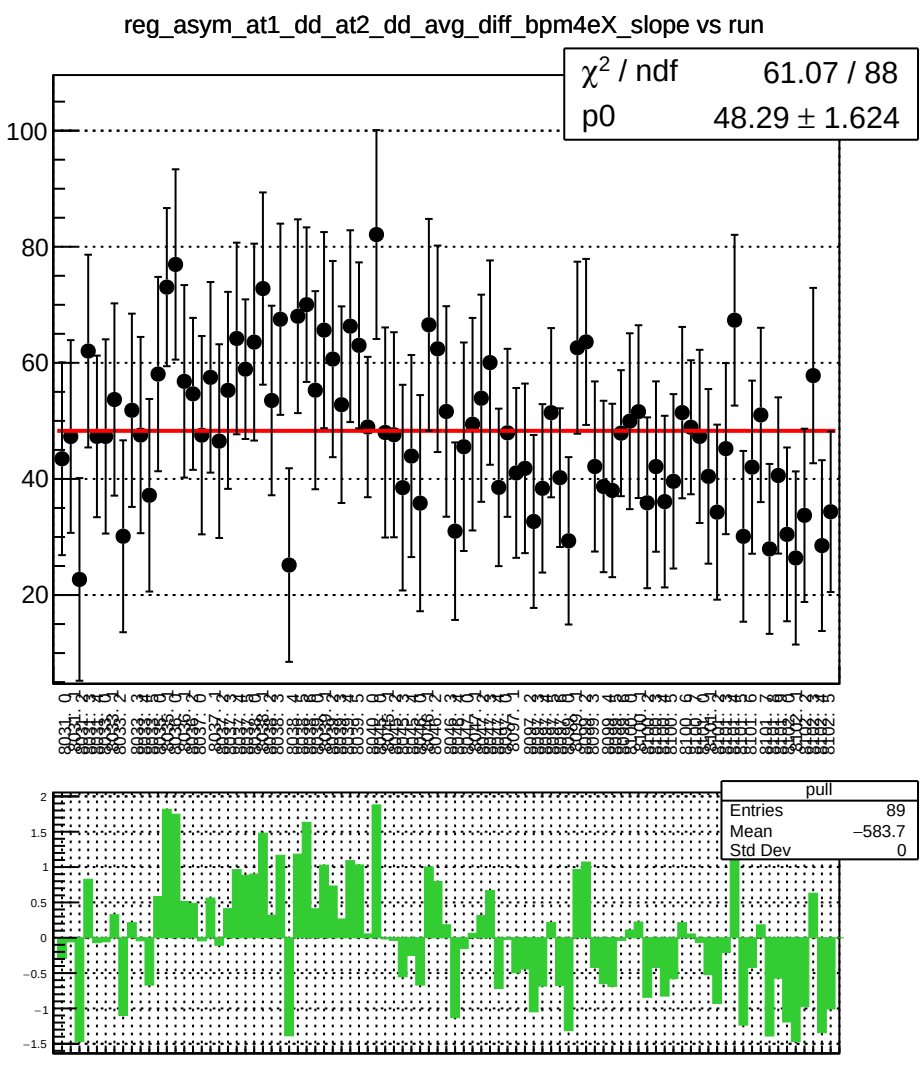

pull1D
Entries 89
Mean 0.01587
Std Dev 0.6619

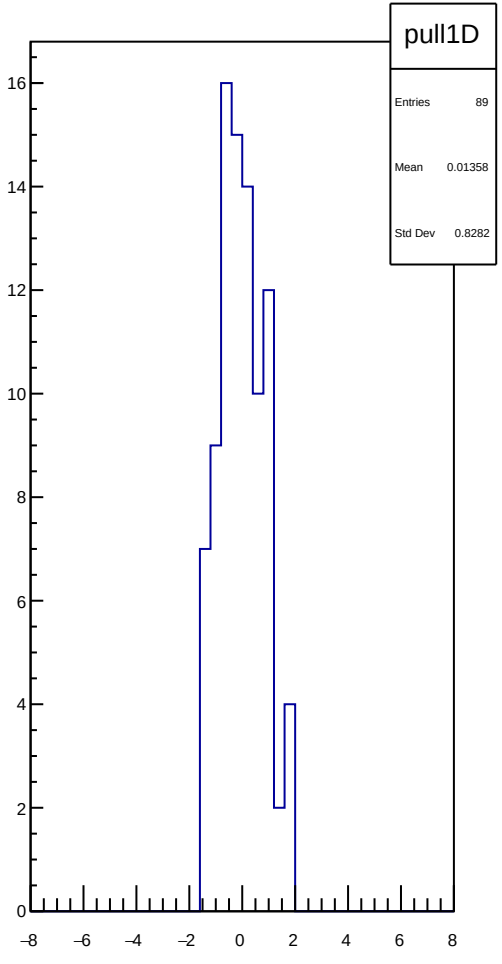

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 602.8 / 88
p0 23.49 ± 0.1429
pull
Entries 89
Mean −33.49
Std Dev 0
pull1D
Entries 89
Mean 0.7078
Std Dev 2.504

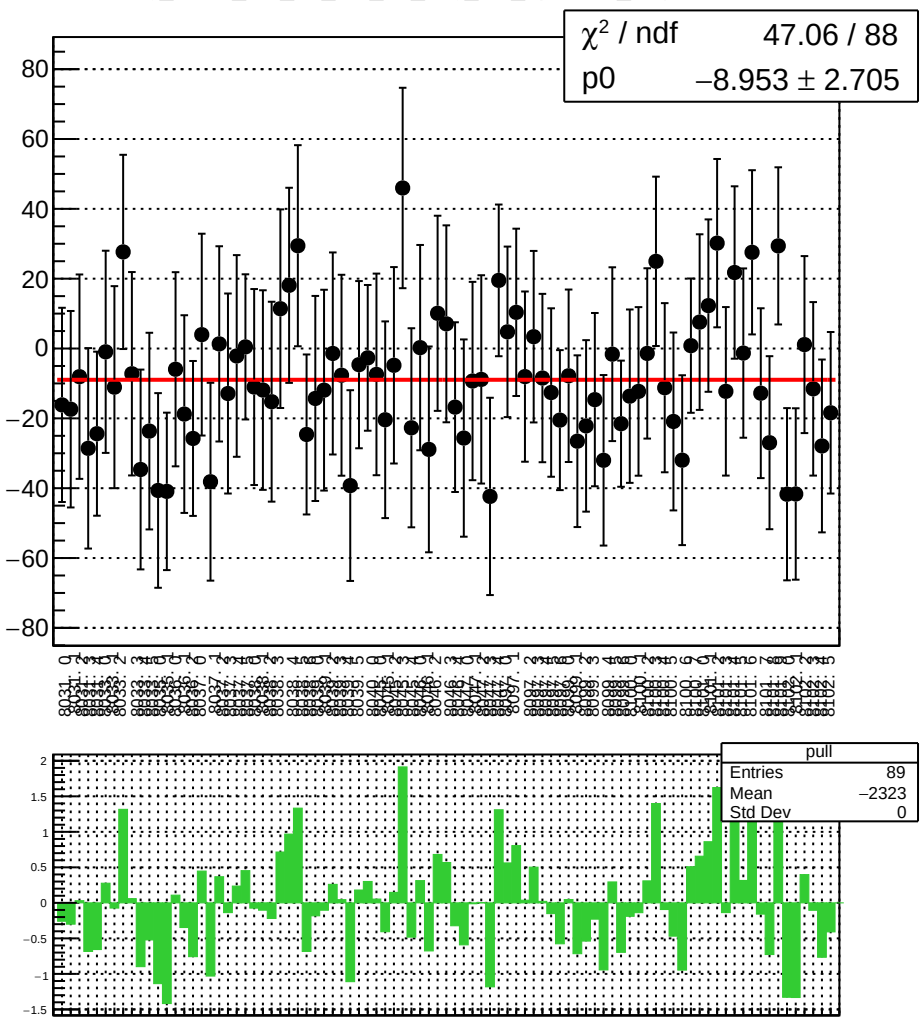

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 57.94 / 88
p0 14.62 ± 1.546
pull
Entries 89
Mean 467.7
Std Dev 0

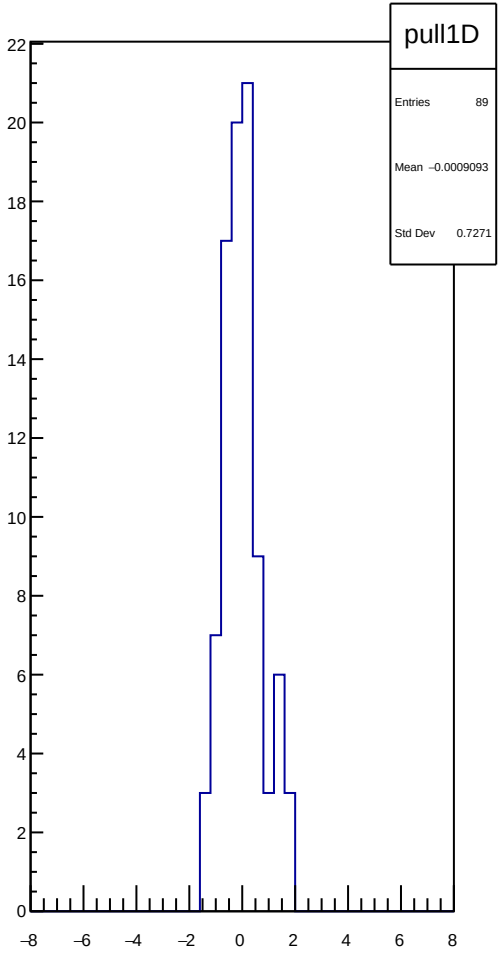

pull1D
Entries 89
Mean 0.01864
Std Dev 0.8066

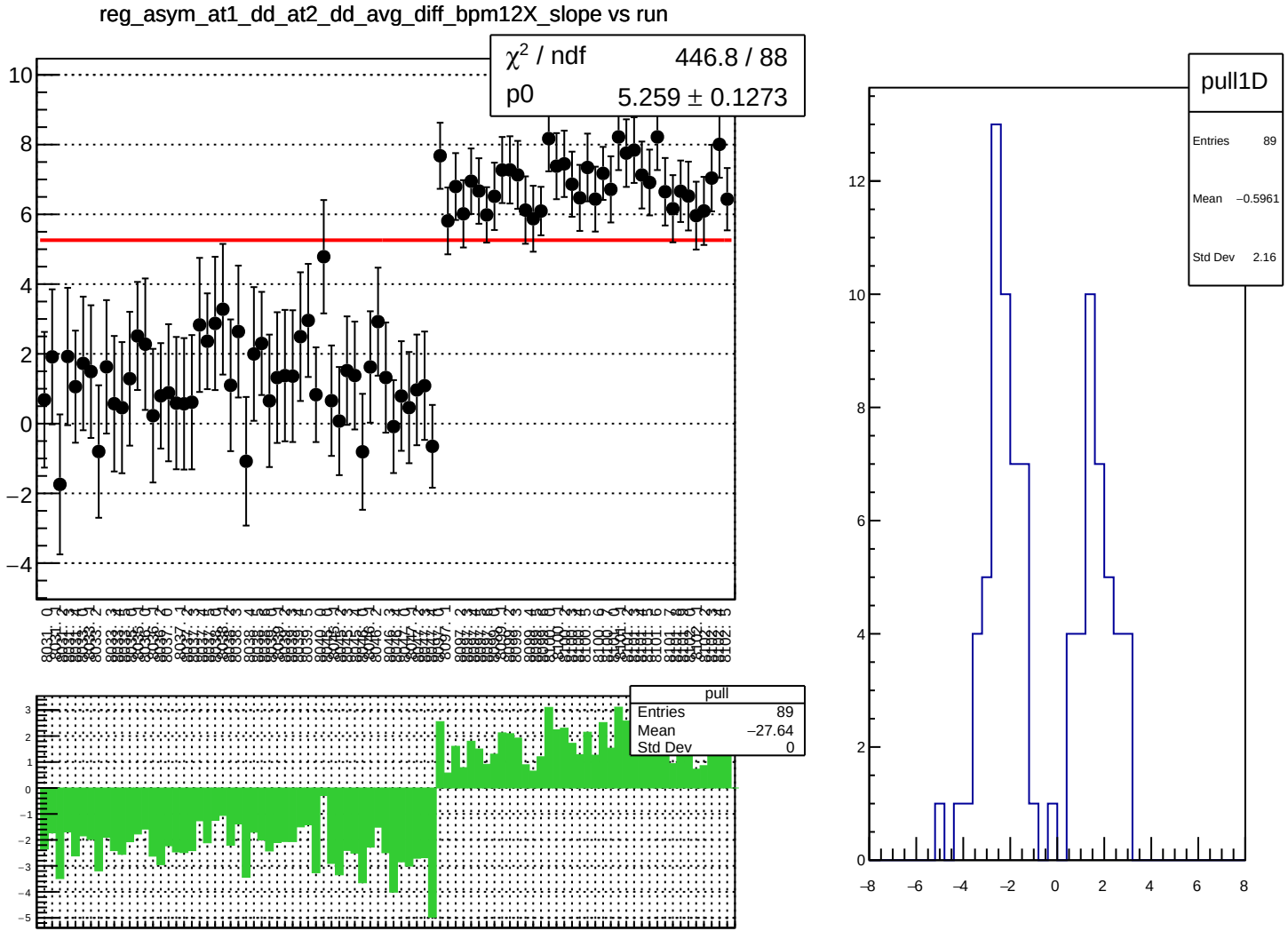

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 48.02 / 88
p0 7.401 ± 2.544
pull
Entries 89
Mean −1091
Std Dev 0
pull1D
Entries 89
Mean 0.002233
Std Dev 0.7345

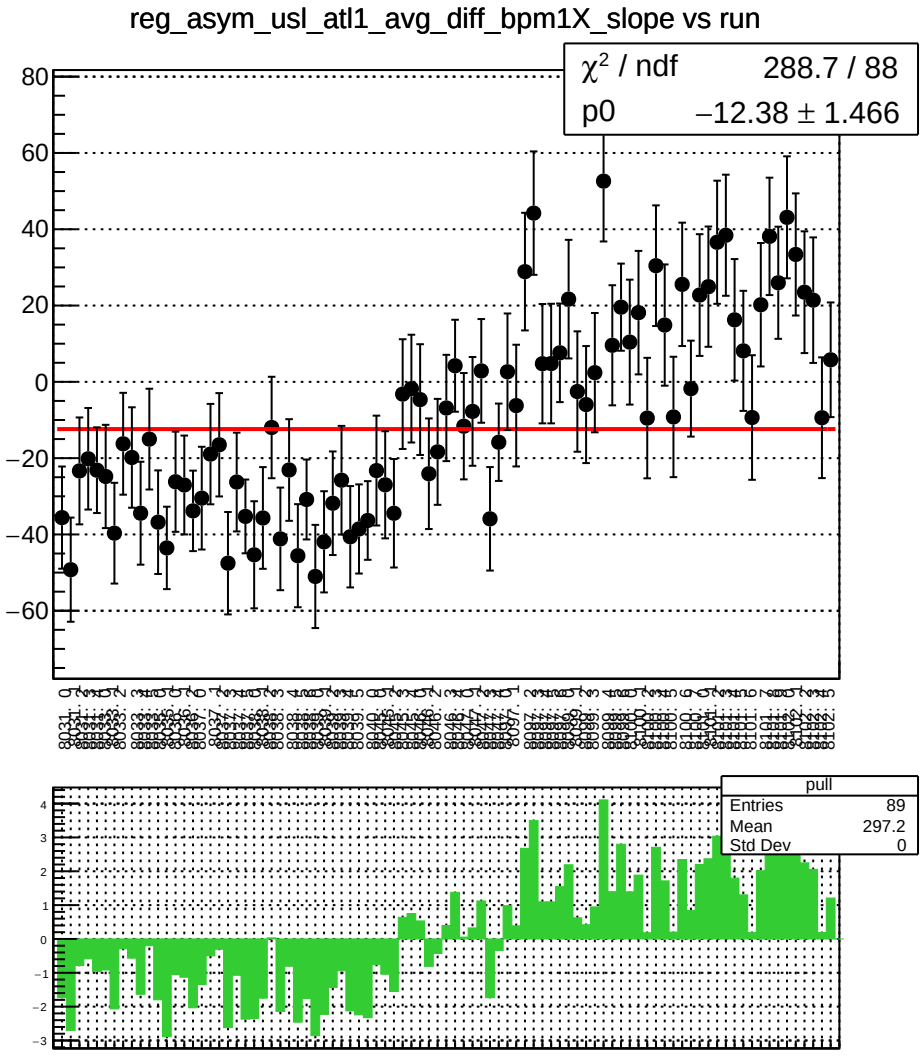

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 61.07 / 88
p0 48.29 ± 1.624
pull
Entries 89
Mean −583.7
Std Dev 0

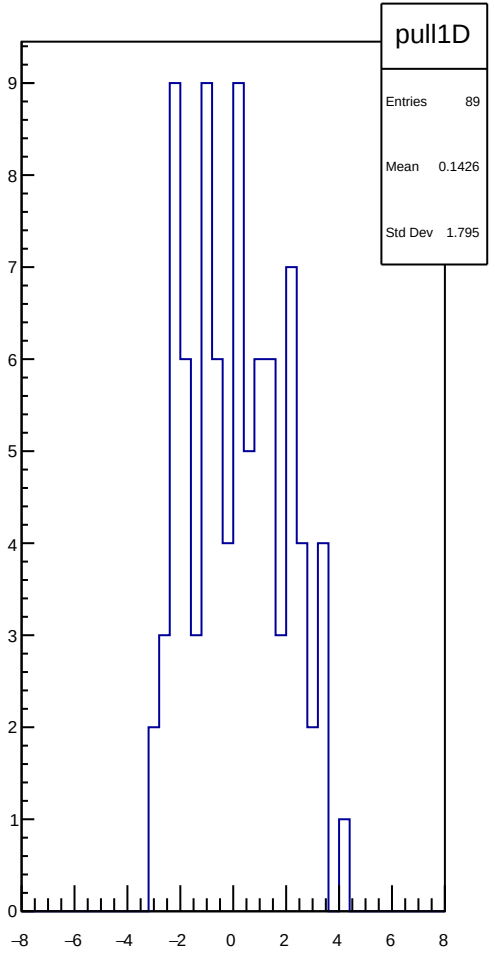

pull1D
Entries 89
Mean 0.01358
Std Dev 0.8282

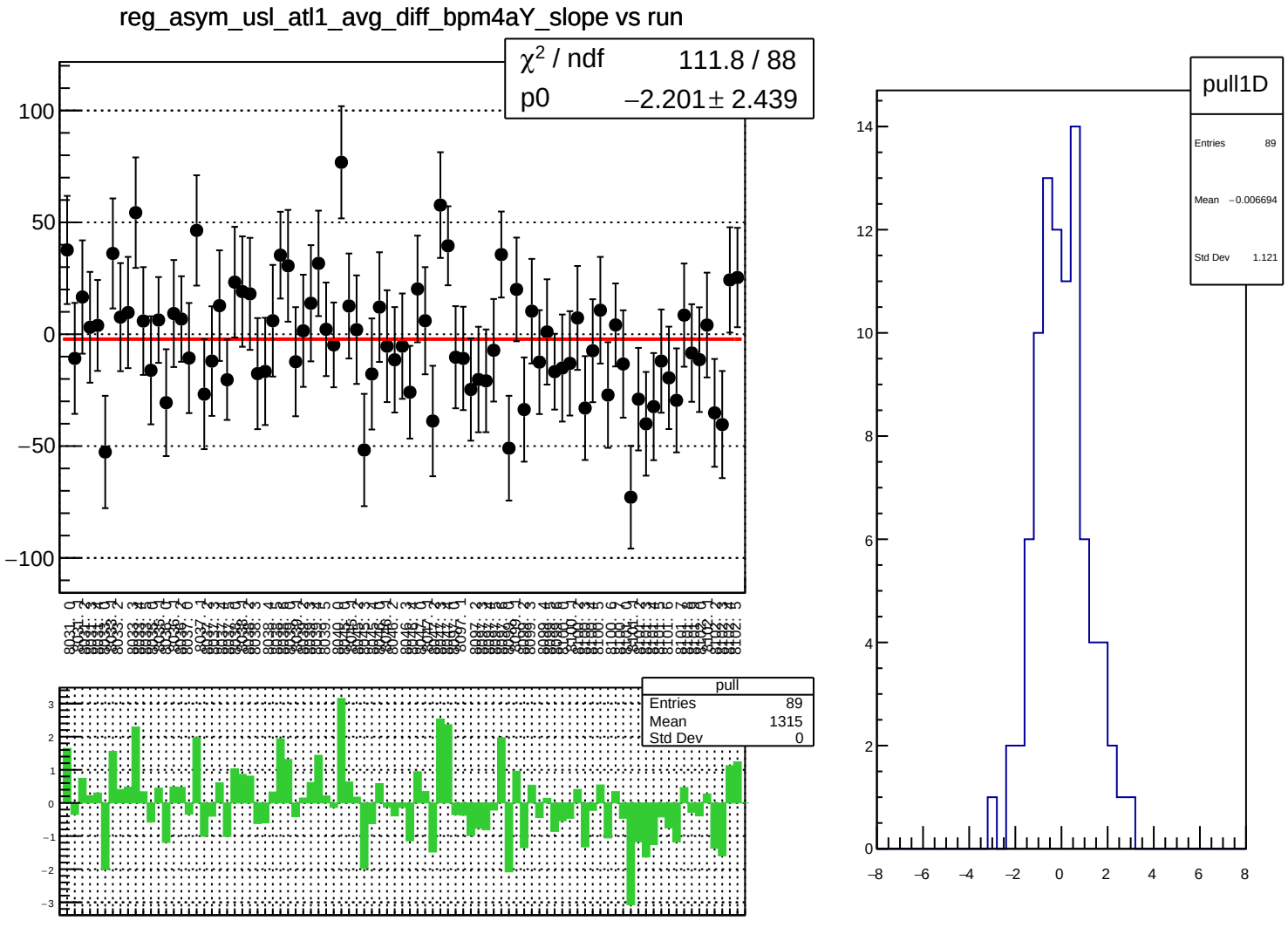

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 47.06 / 88
p0 −8.953 ± 2.705
pull
Entries 89
Mean −2323
Std Dev 0

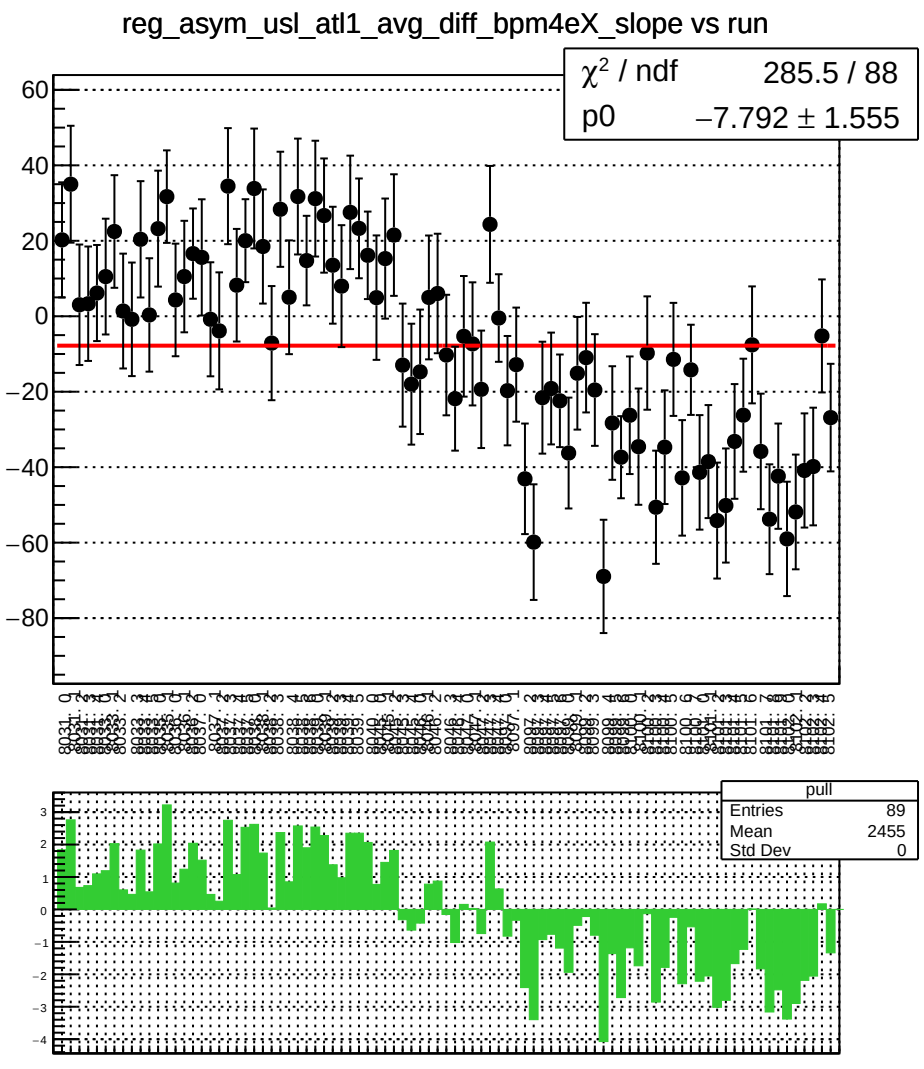

pull1D
Entries 89
Mean −0.0009093
Std Dev 0.7271

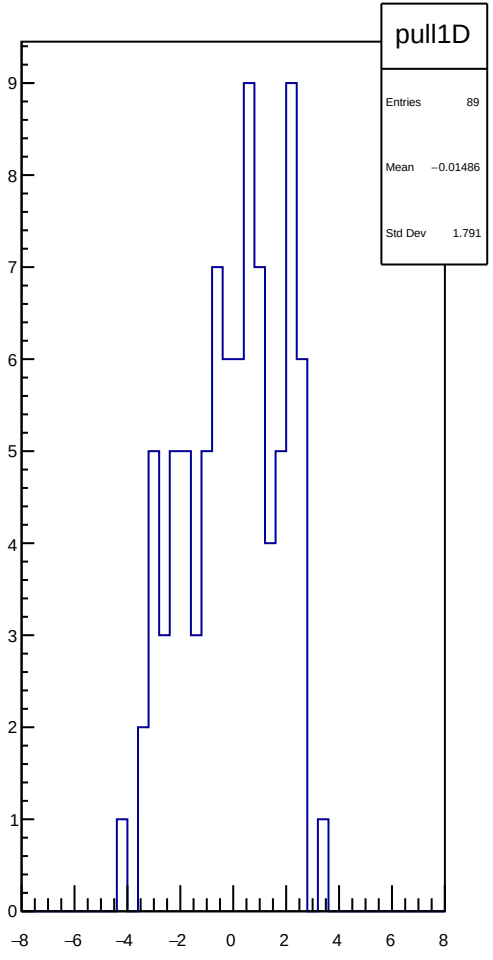

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 446.8 / 88
p0 5.259 ± 0.1273
pull
Entries 89
Mean −27.64
Std Dev 0
pull1D
Entries 89
Mean −0.5961
Std Dev 2.16

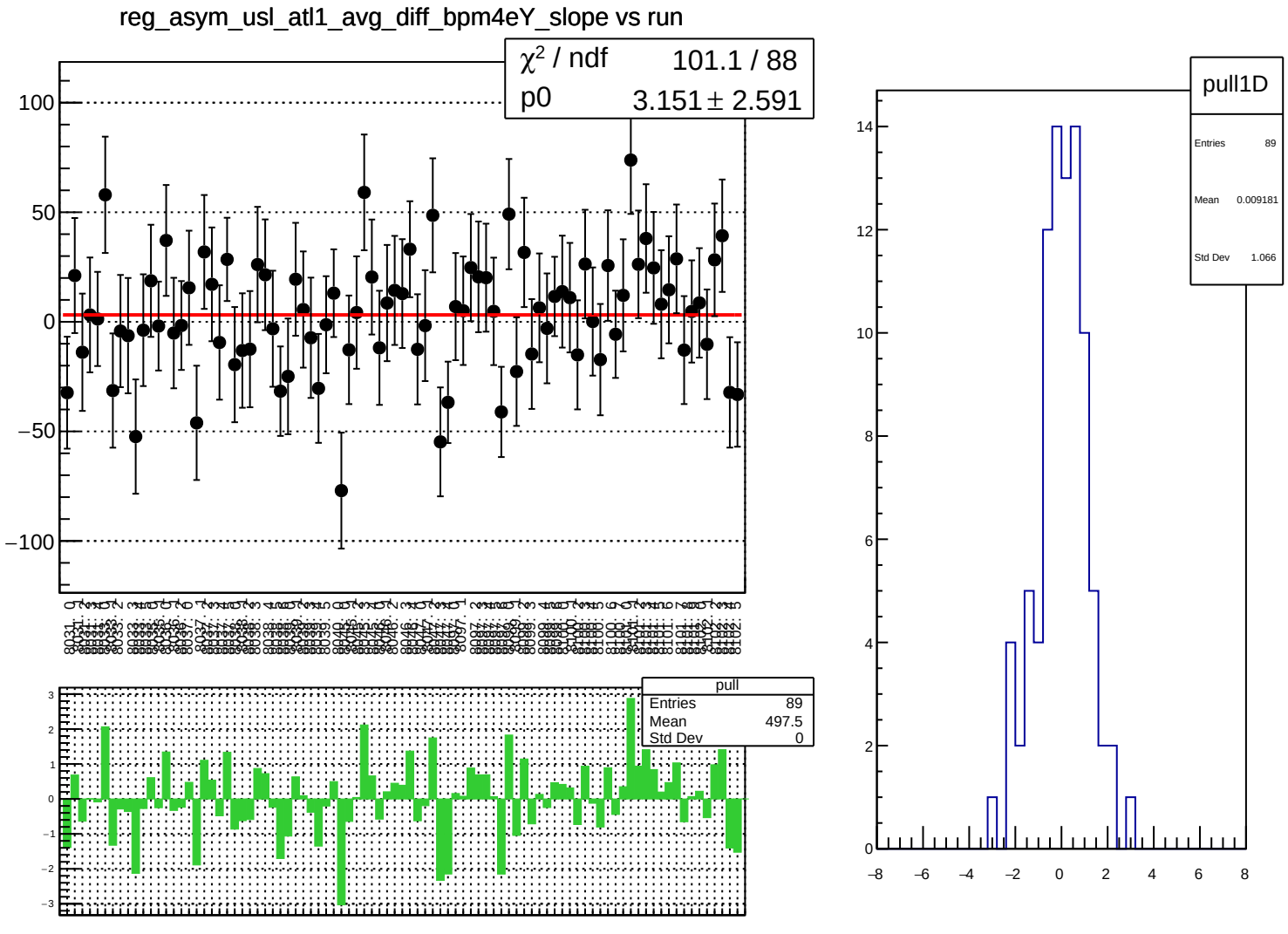

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 288.7 / 88
p0 −12.38 ± 1.466
pull
Entries 89
Mean 297.2
Std Dev 0

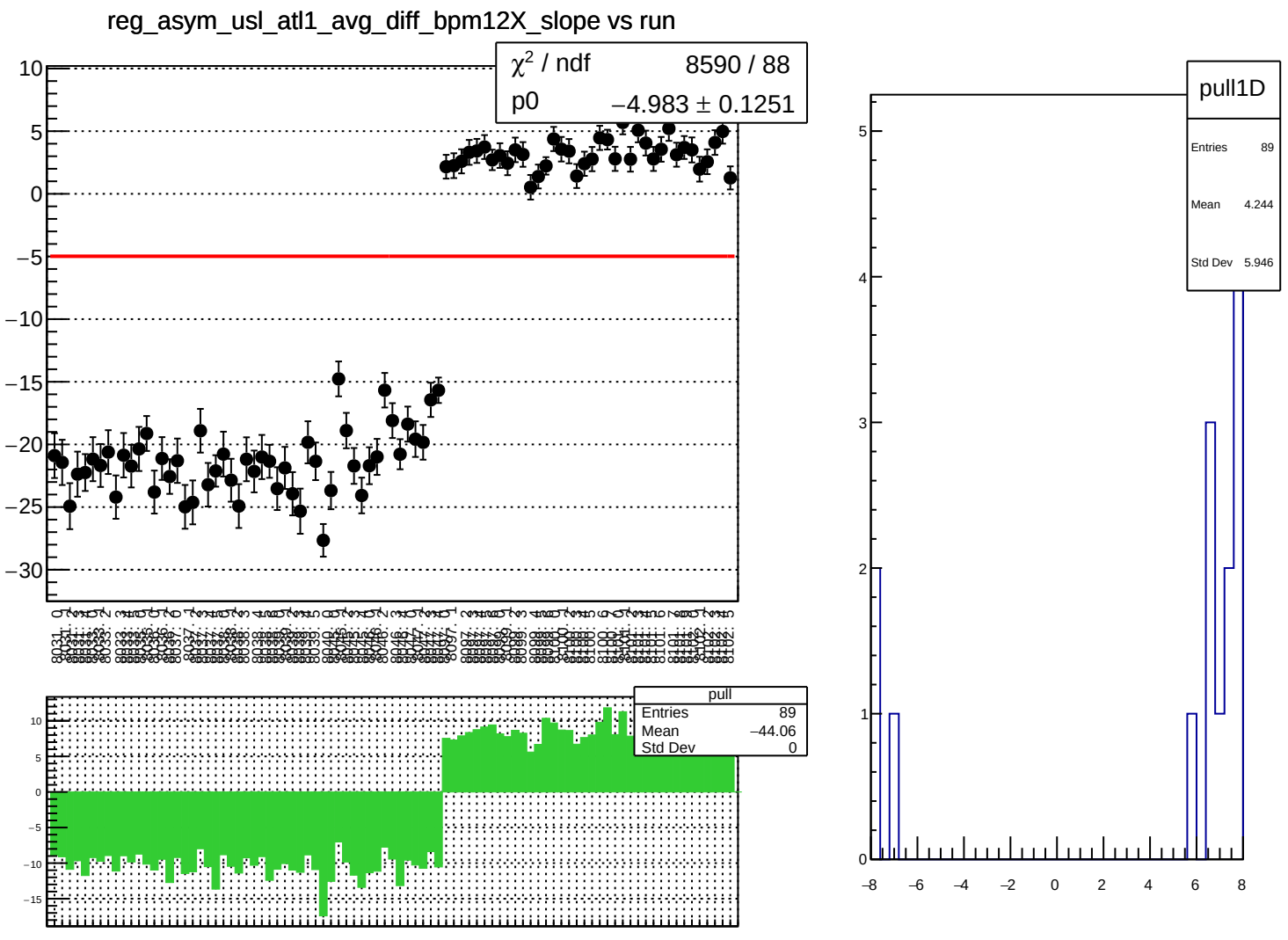

pull1D
Entries 89
Mean 0.1426
Std Dev 1.795

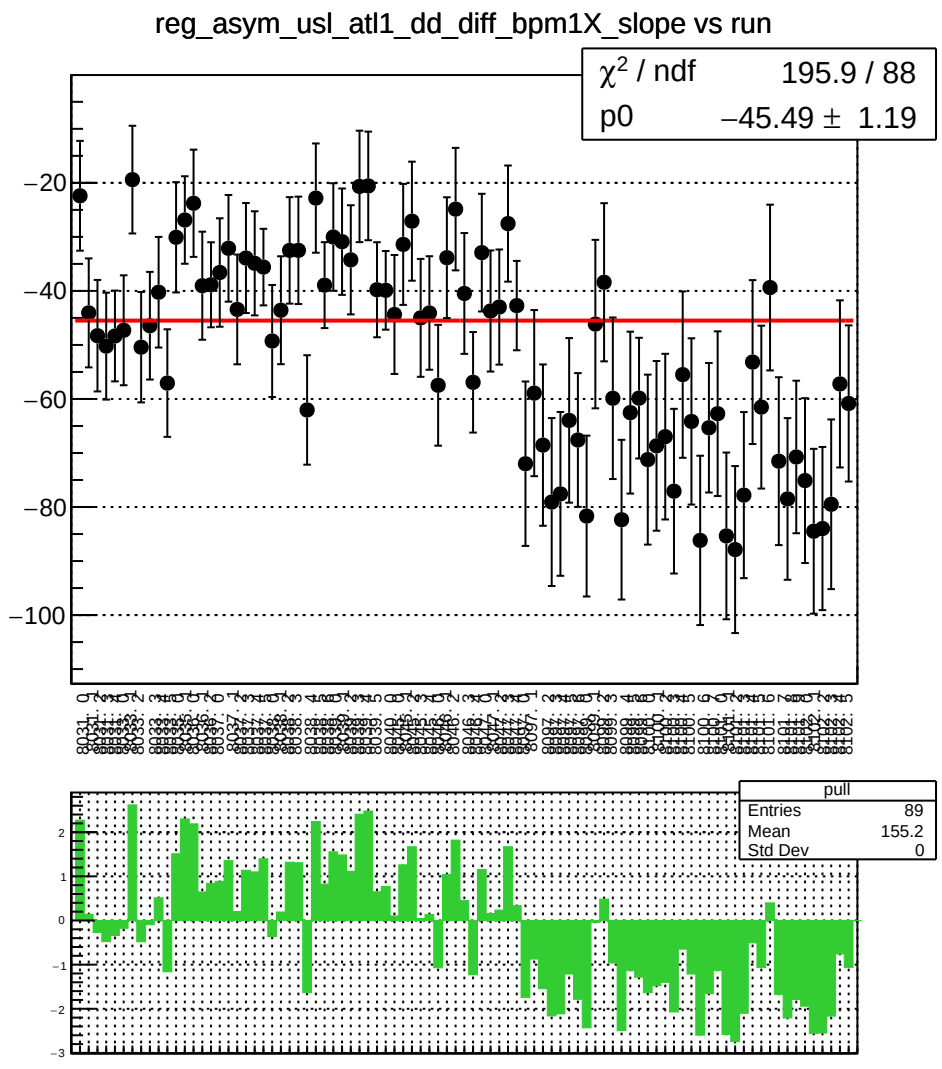

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 111.8 / 88
p0 −2.201 ± 2.439
100
50
0
−50
−100
pull
Entries 89
Mean 1315
Std Dev 0
pull1D
Entries 89
Mean −0.006694
Std Dev 1.121
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

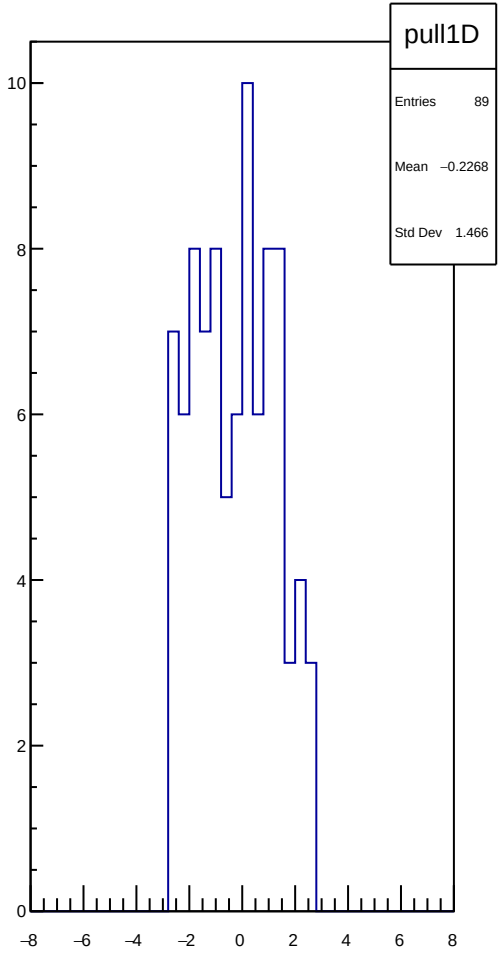

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 285.5 / 88
p0 −7.792 ± 1.555
pull
Entries 89
Mean 2455
Std Dev 0

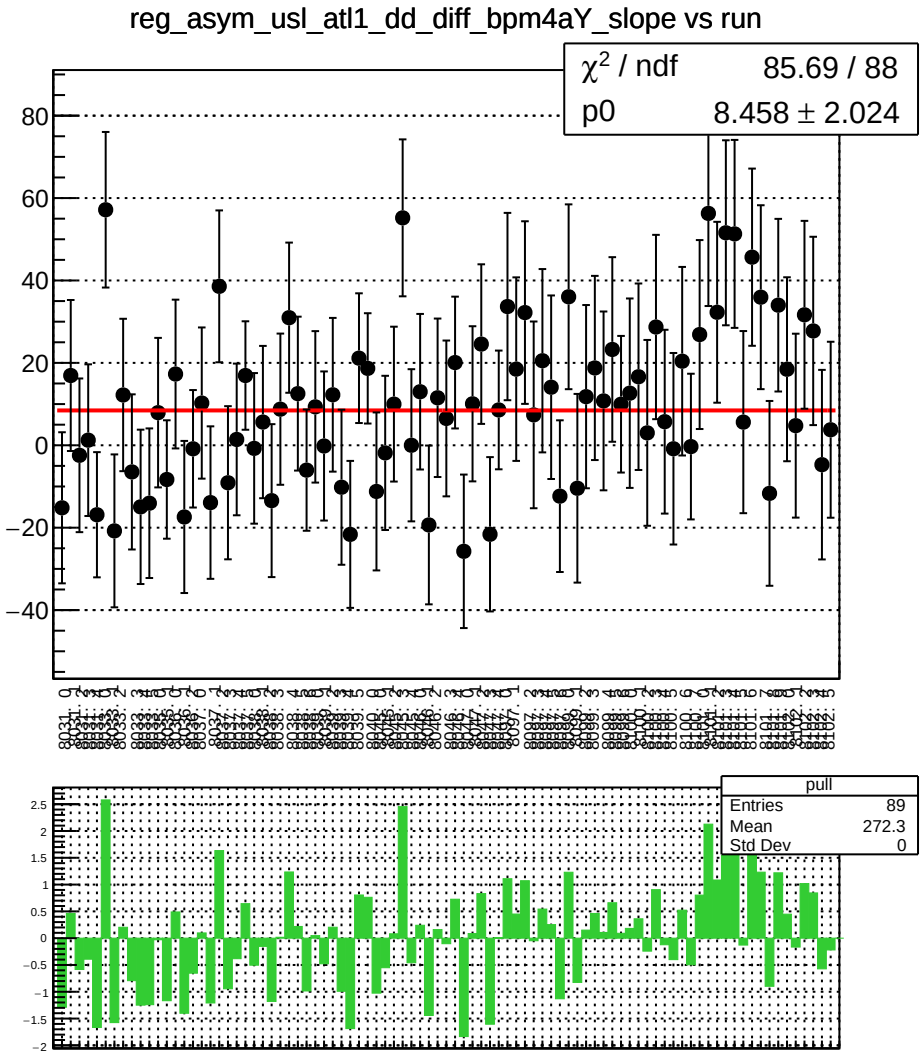

pull1D
Entries 89
Mean −0.01486
Std Dev 1.791

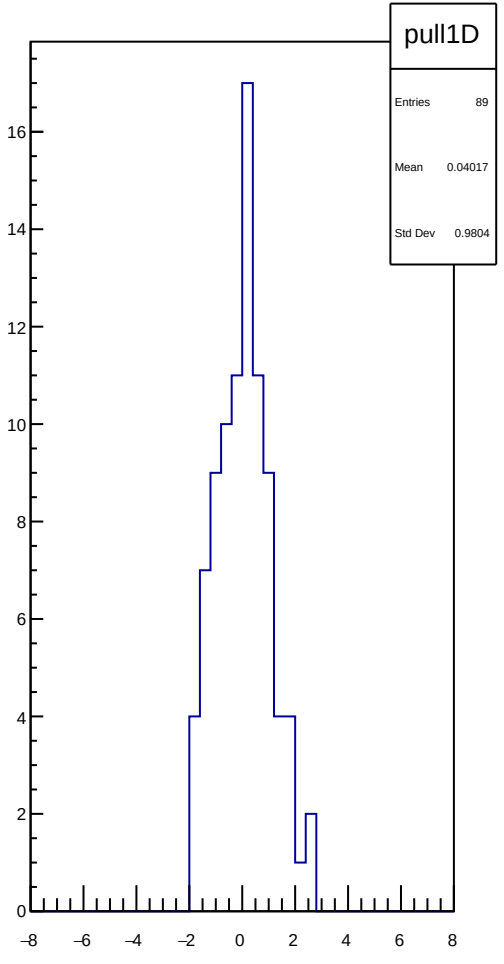

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 101.1 / 88
p0 3.151 ± 2.591
pull
Entries 89
Mean 497.5
Std Dev 0
pull1D
Entries 89
Mean 0.009181
Std Dev 1.066

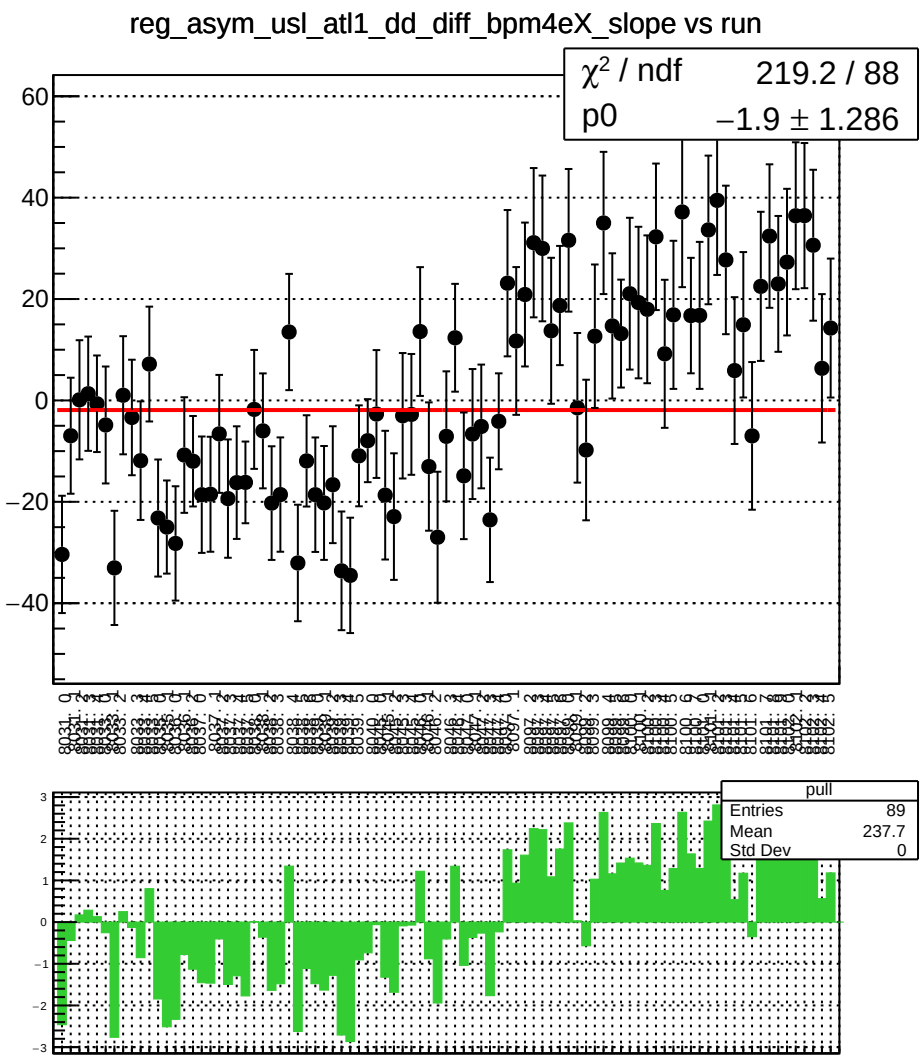

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 8590 / 88
p0 −4.983 ± 0.1251
pull
Entries 89
Mean −44.06
Std Dev 0
pull1D
Entries 89
Mean 4.244
Std Dev 5.946

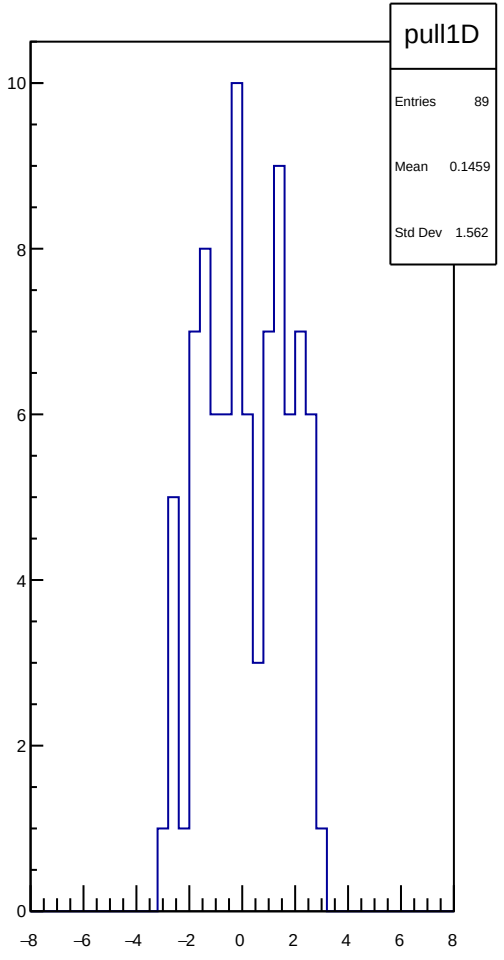

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 195.9 / 88
p0 −45.49 ± 1.19
−20
−40
−60
−80
−100
pull
Entries 89
Mean 155.2
Std Dev 0
2
1
0
−1
−2
−3

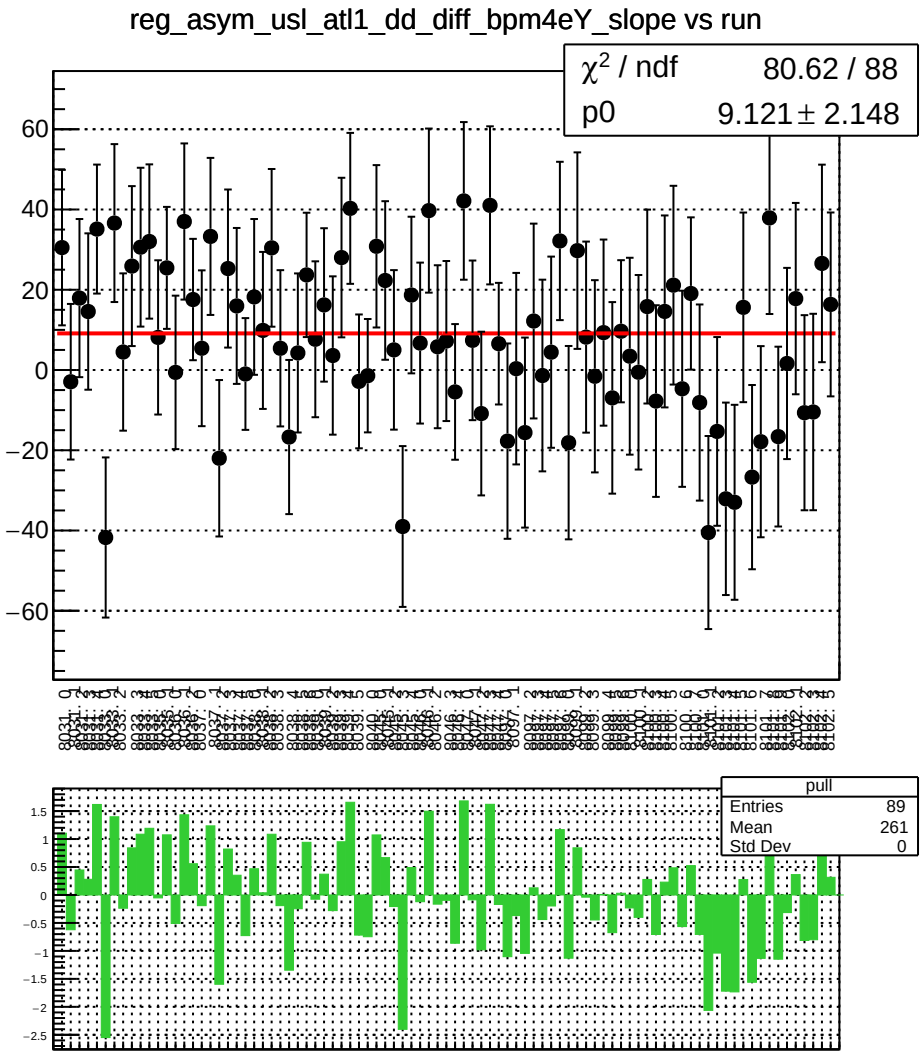

pull1D
Entries 89
Mean −0.2268
Std Dev 1.466
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

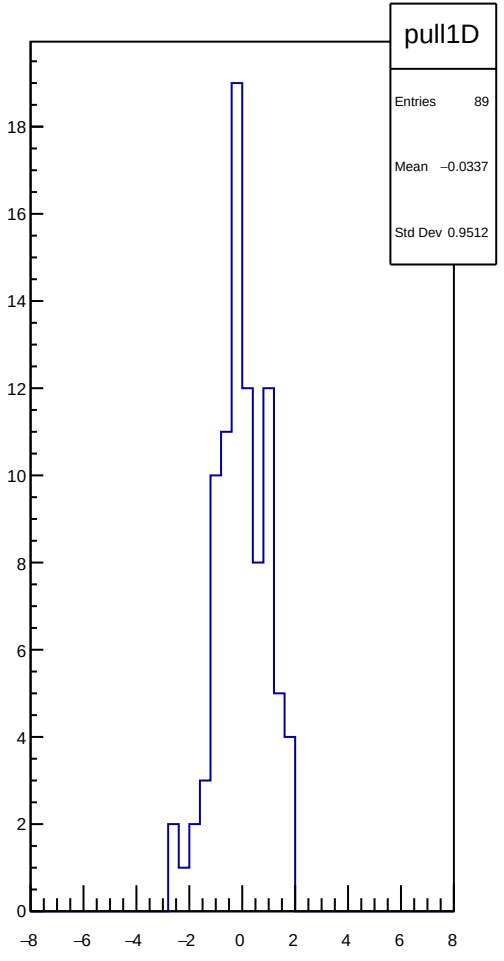

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 85.69 / 88
p0 8.458 ± 2.024
pull
Entries 89
Mean 272.3
Std Dev 0

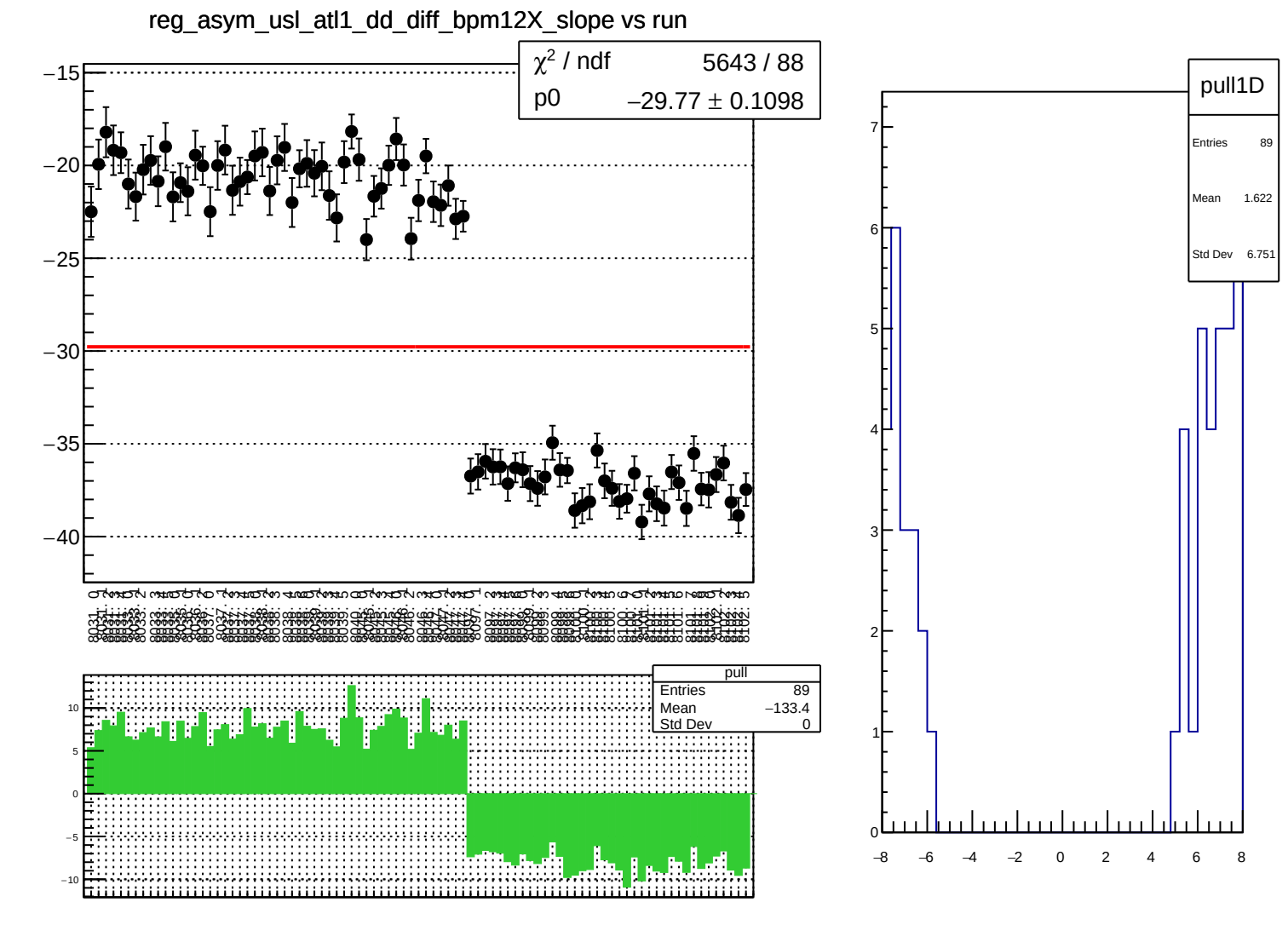

pull1D
Entries 89
Mean 0.04017
Std Dev 0.9804

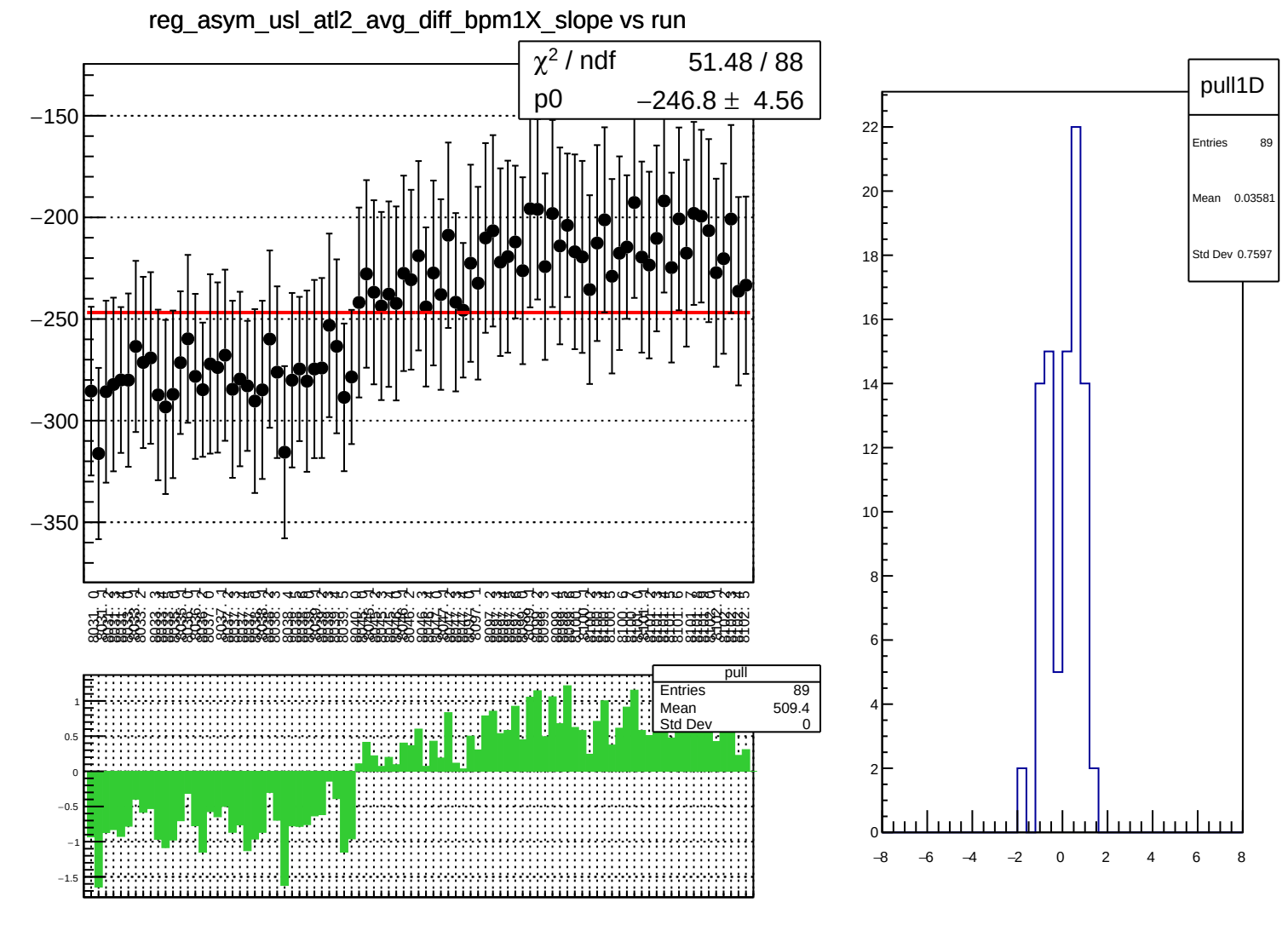

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 219.2 / 88
p0 −1.9 ± 1.286
pull
Entries 89
Mean 237.7
Std Dev 0

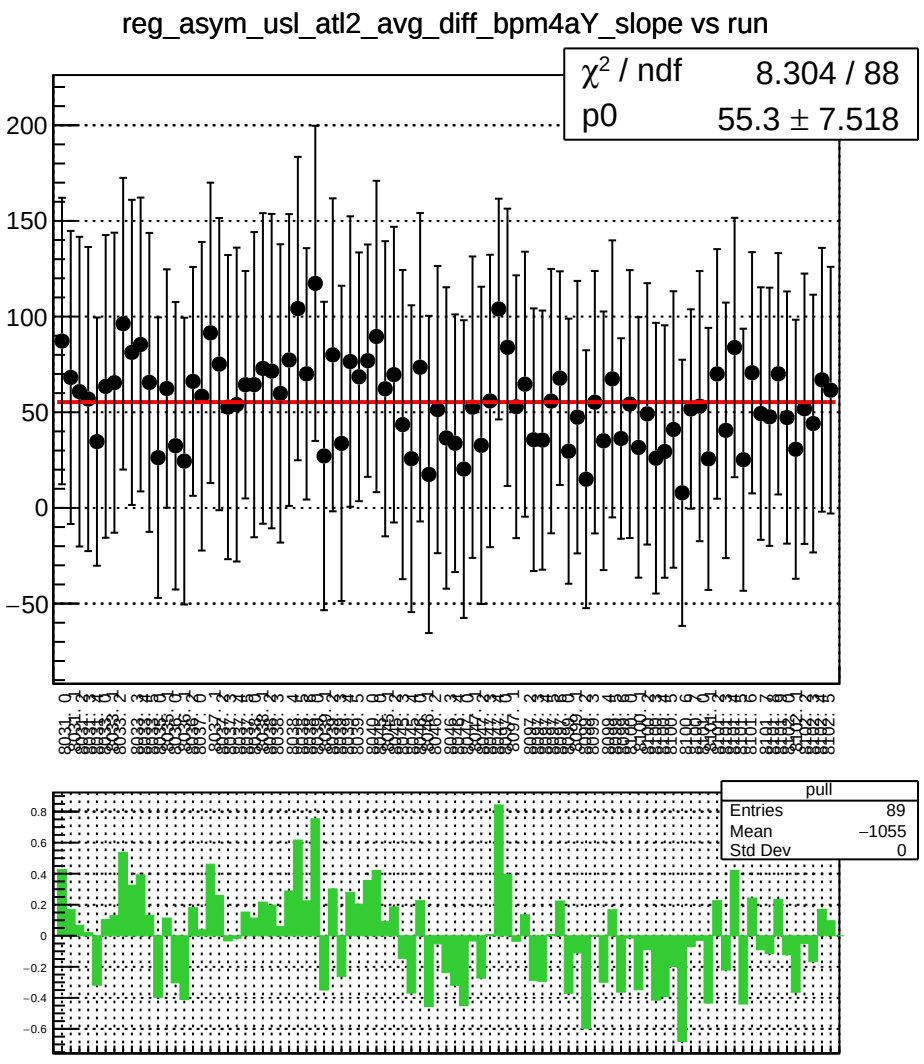

pull1D
Entries 89
Mean 0.1459
Std Dev 1.562

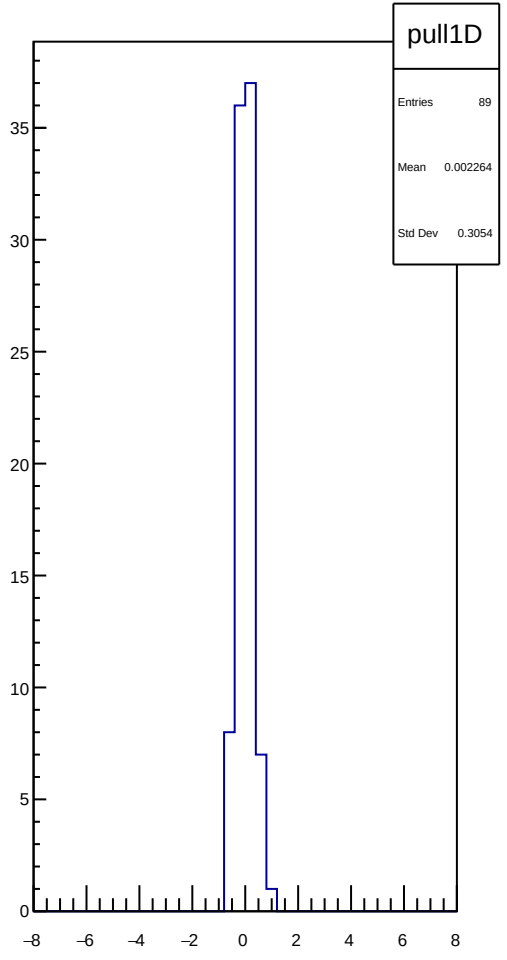

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 80.62 / 88
p0 9.121 ± 2.148
pull
Entries 89
Mean 261
Std Dev 0

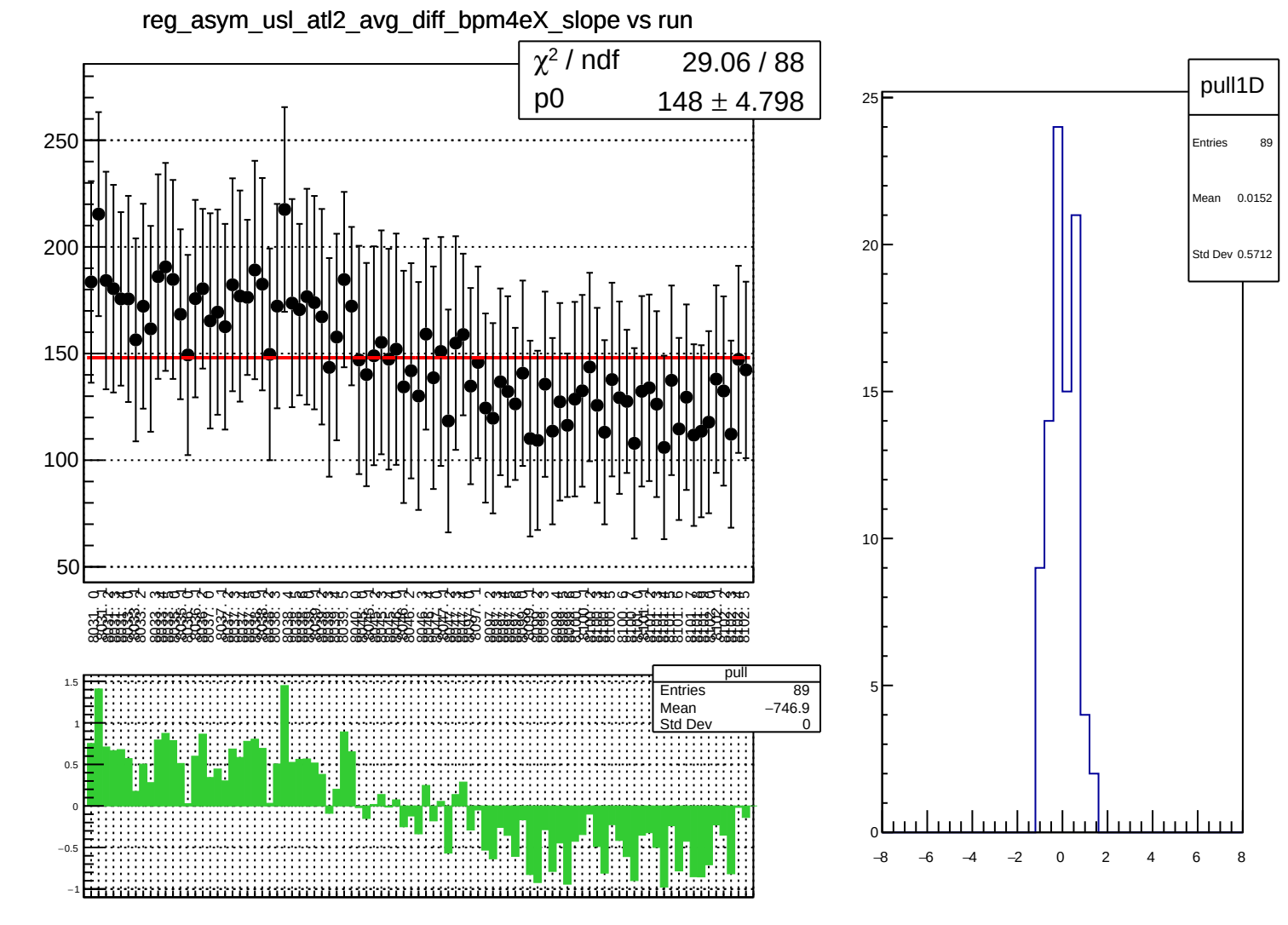

pull1D
Entries 89
Mean −0.0337
Std Dev 0.9512

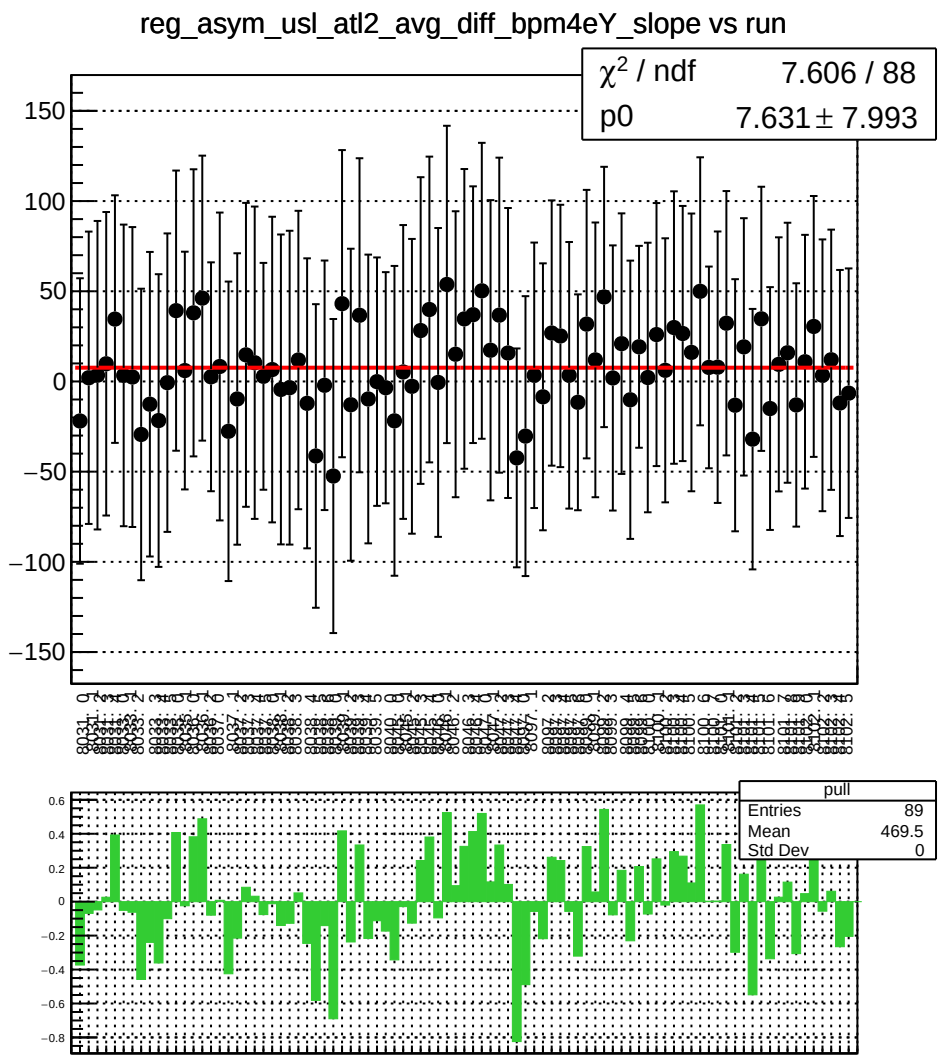

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 5643 / 88
p0 −29.77 ± 0.1098
pull
Entries 89
Mean −133.4
Std Dev 0
pull1D
Entries 89
Mean 1.622
Std Dev 6.751

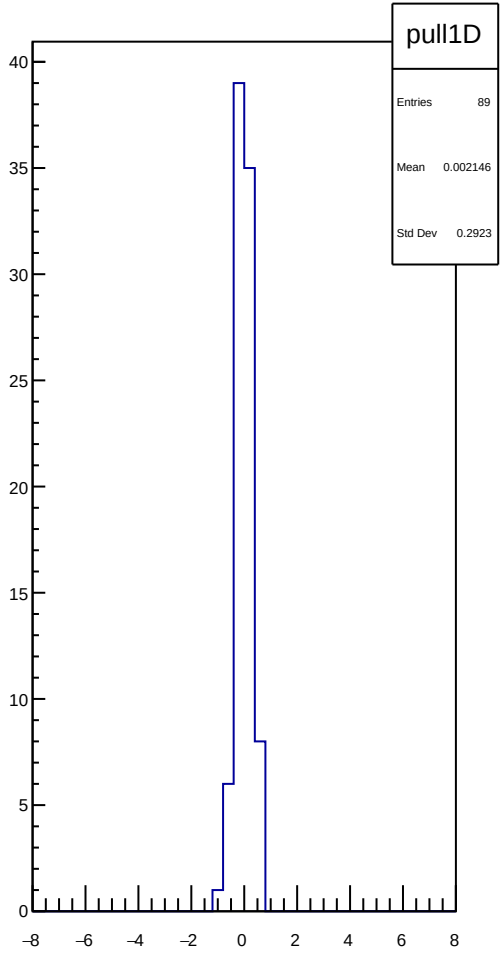

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 51.48 / 88
p0 −246.8 ± 4.56
−150
−200
−250
−300
−350
pull
Entries 89
Mean 509.4
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 89
Mean 0.03581
Std Dev 0.7597
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

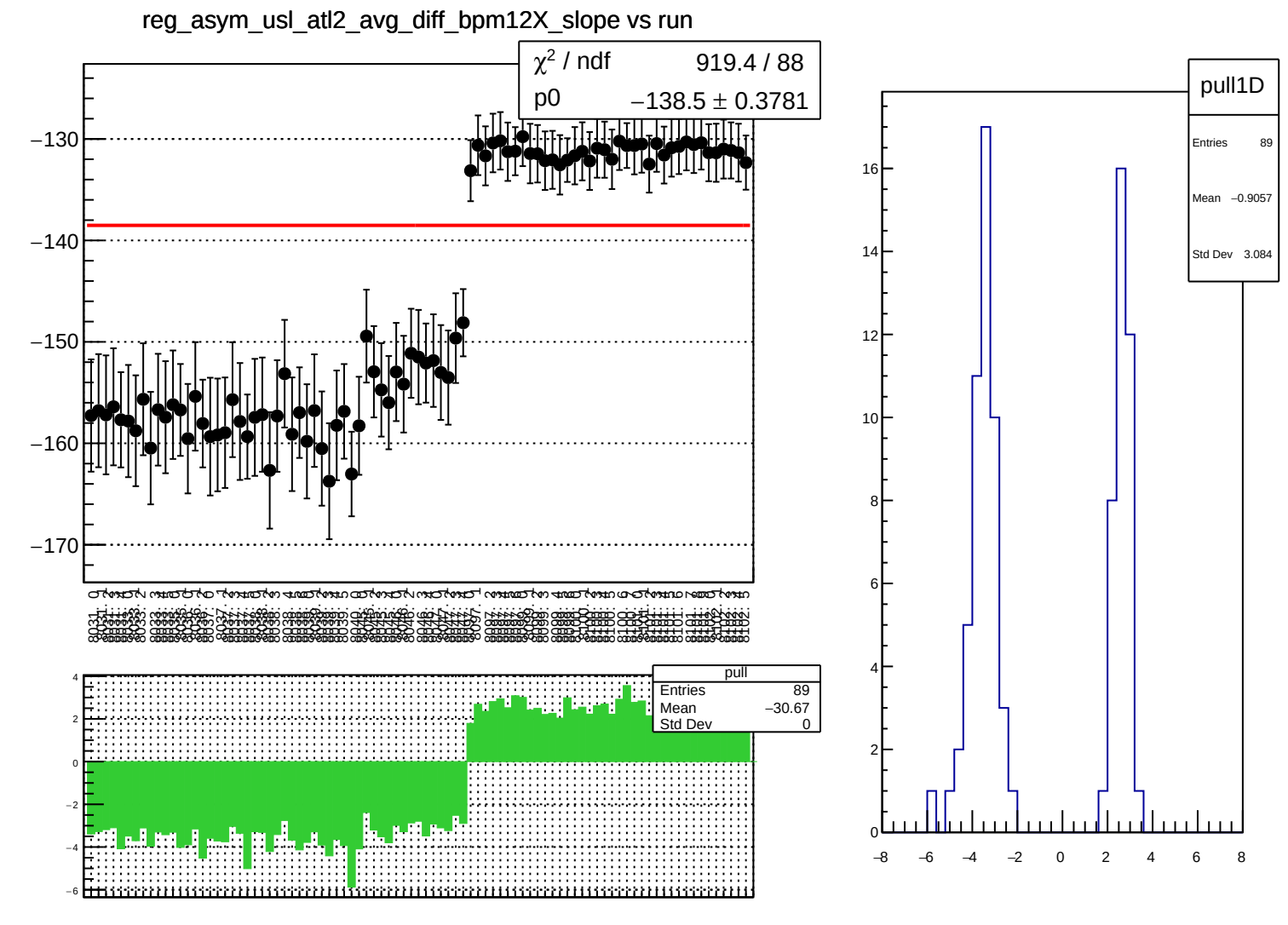

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.304 / 88
p0 55.3 ± 7.518
200
150
100
50
0
−50
pull
Entries 89
Mean −1055
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

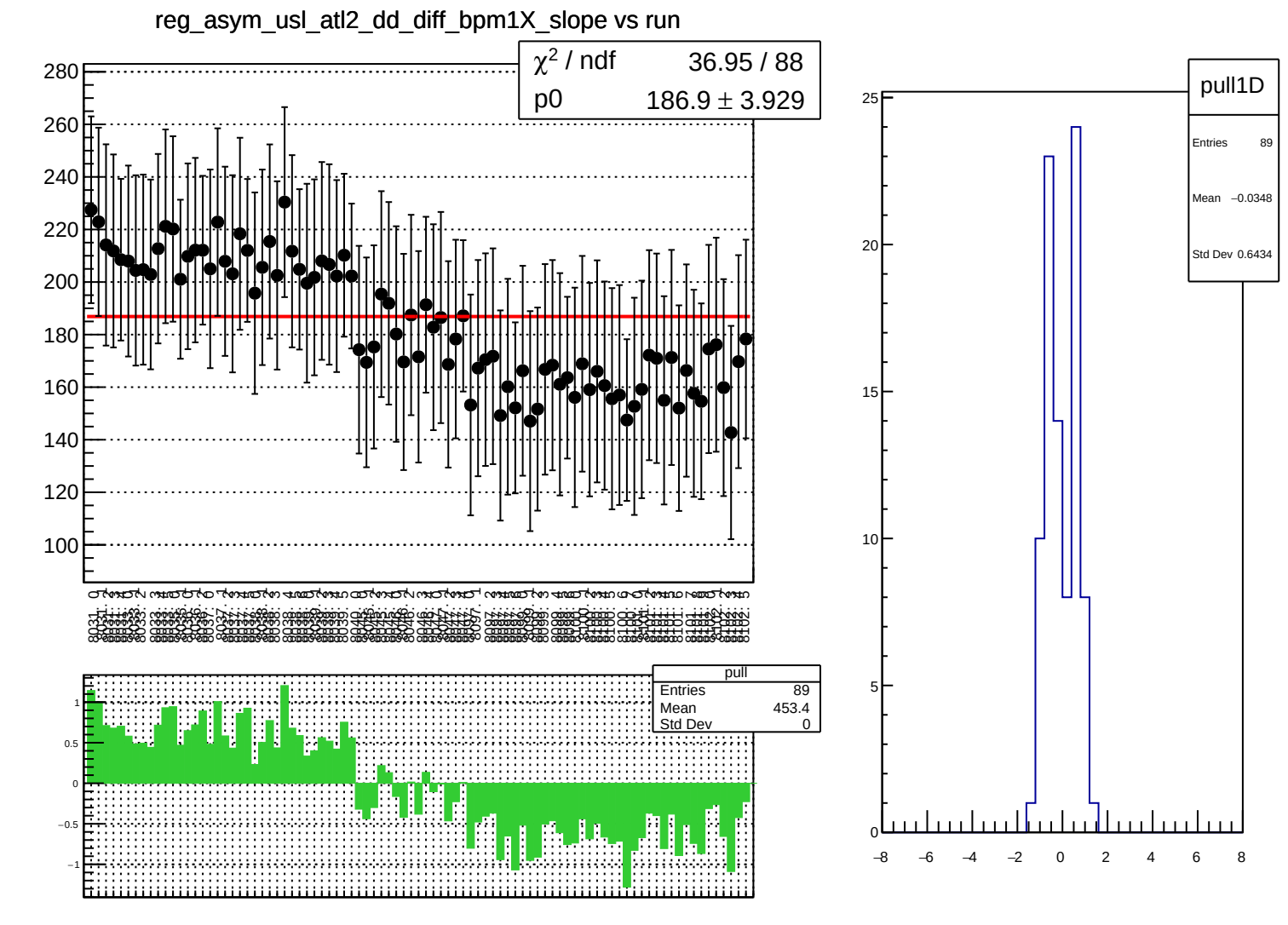

pull1D
Entries 89
Mean 0.002264
Std Dev 0.3054
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

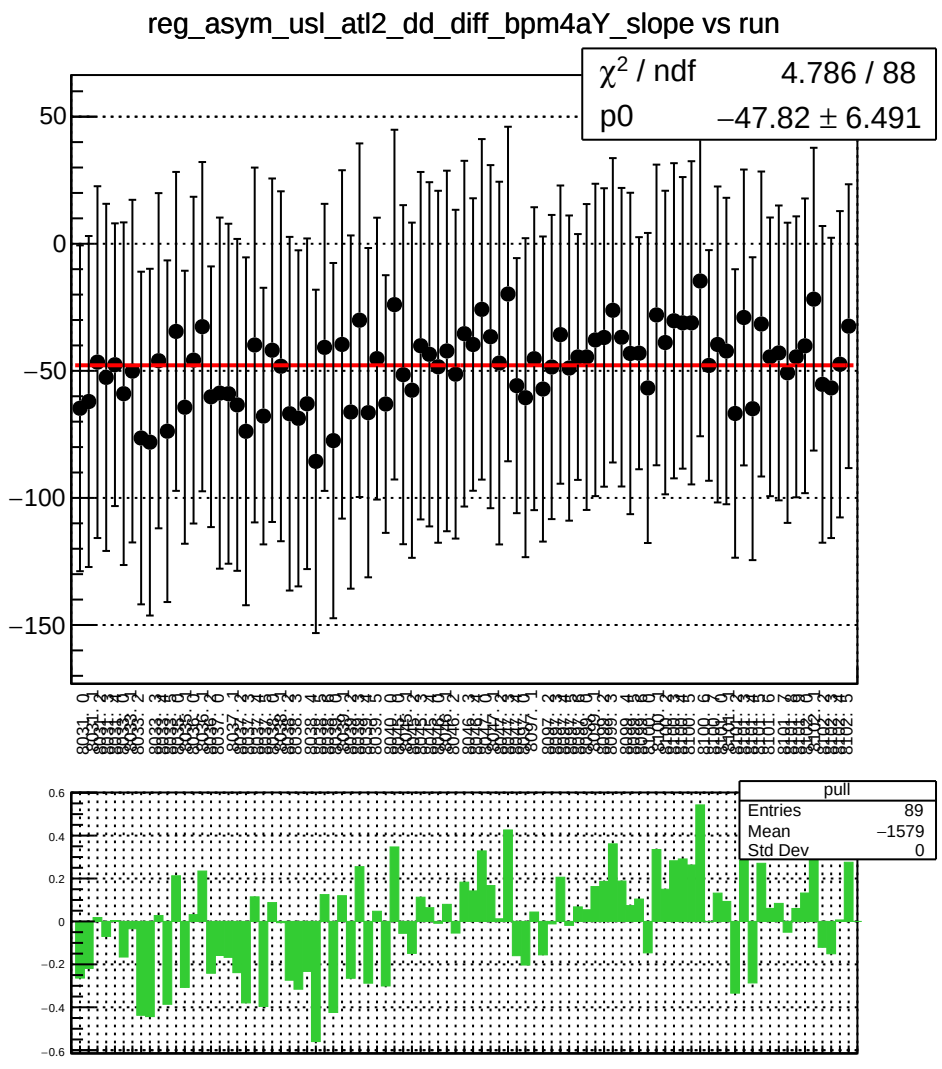

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 29.06 / 88
p0 148 ± 4.798
250
200
150
100
50
pull
Entries 89
Mean −746.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean 0.0152
Std Dev 0.5712
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

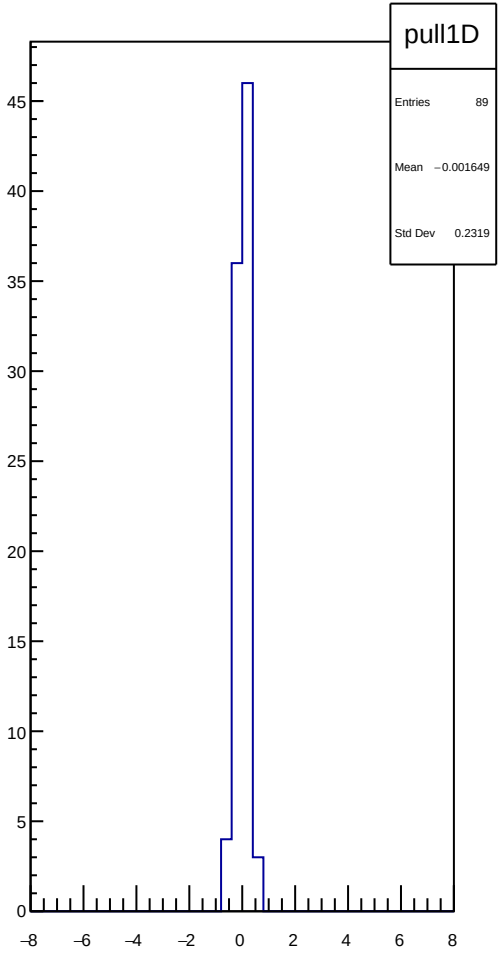

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.606 / 88
p0 7.631 ± 7.993
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean 469.5
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

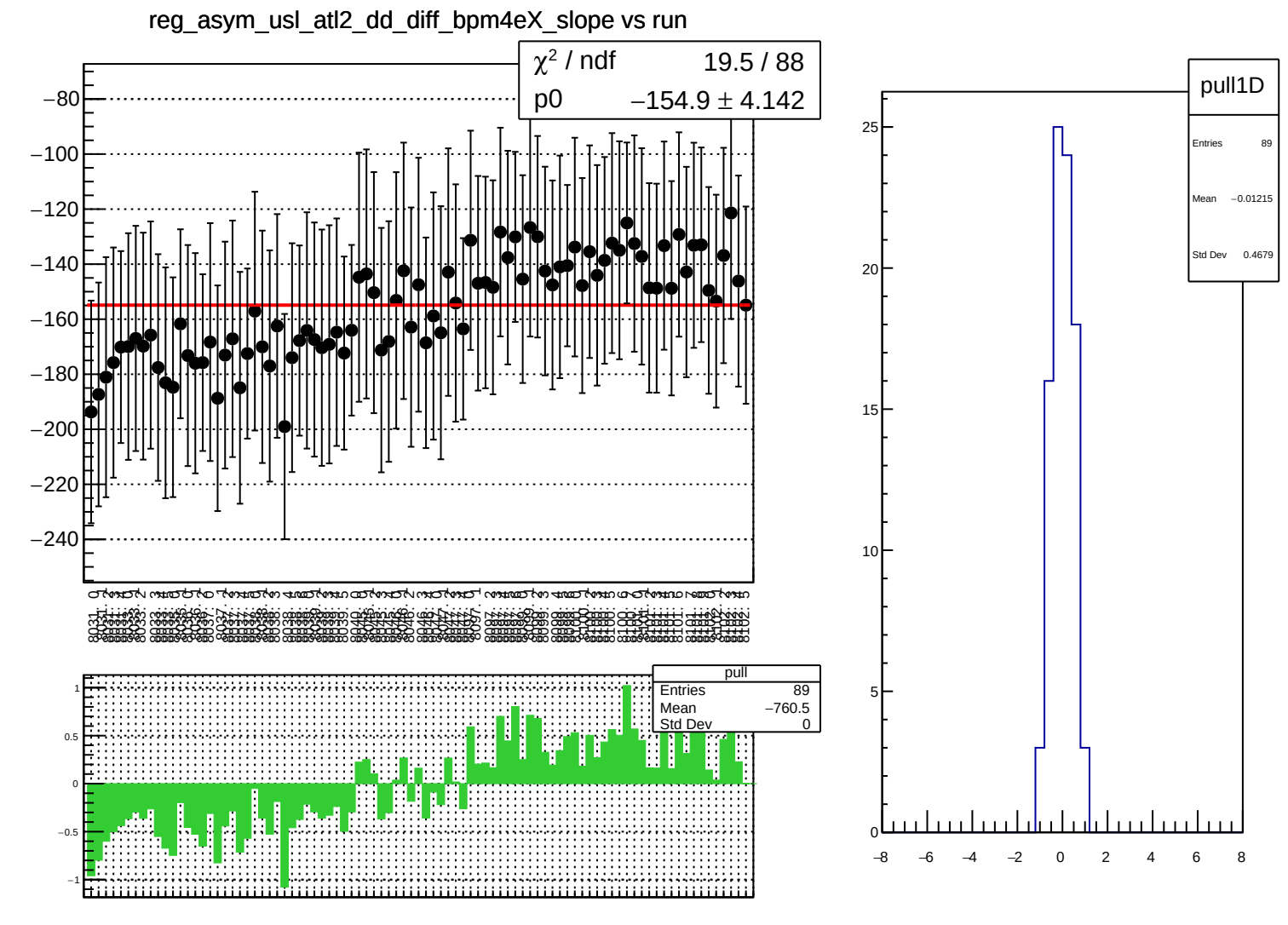

pull1D
Entries 89
Mean 0.002146
Std Dev 0.2923
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

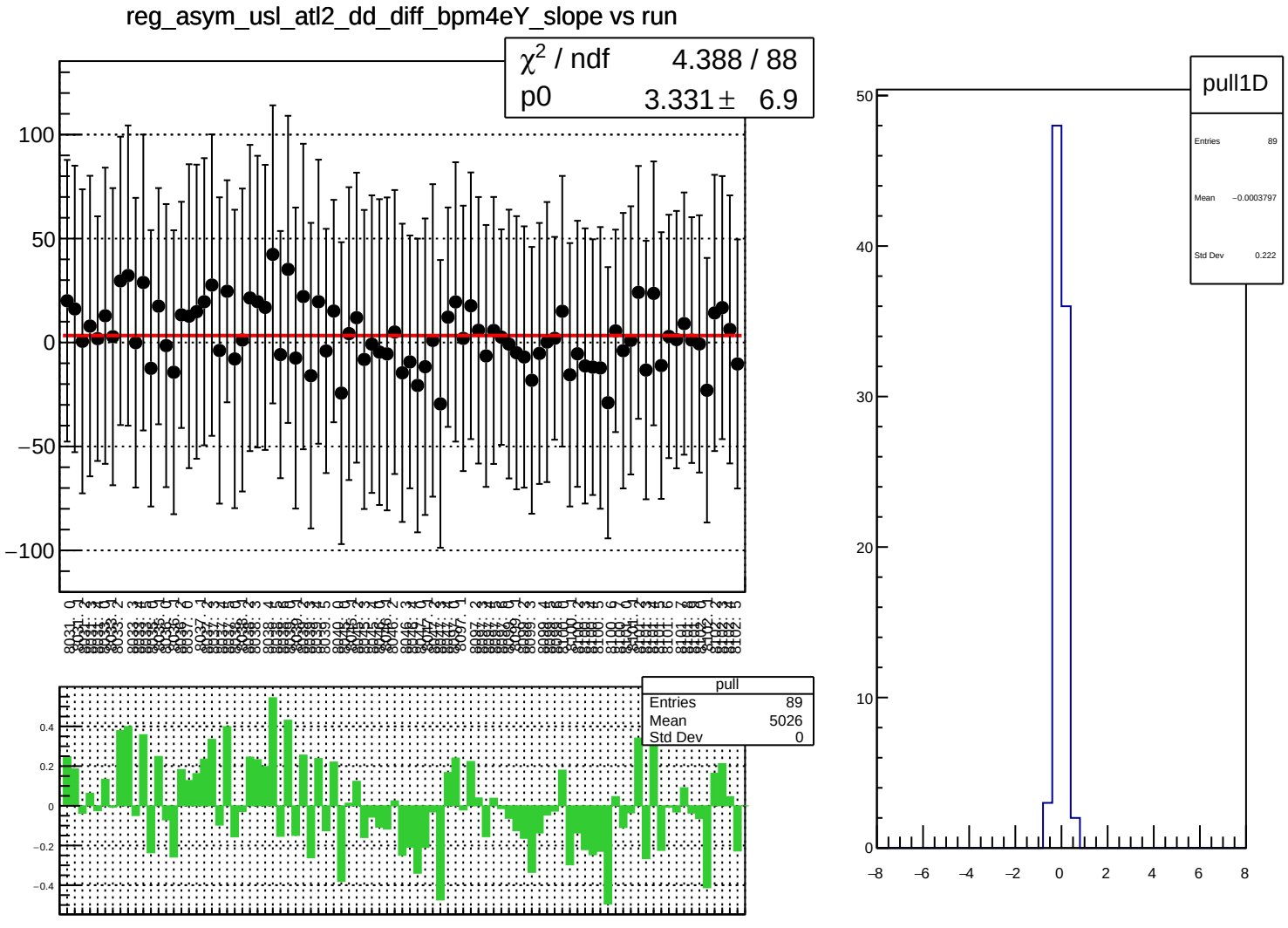

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 919.4 / 88
p0 −138.5 ± 0.3781
−130
−140
−150
−160
−170
pull
Entries 89
Mean −30.67
Std Dev 0
4
2
0
−2
−4
−6
pull1D
Entries 89
Mean −0.9057
Std Dev 3.084
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

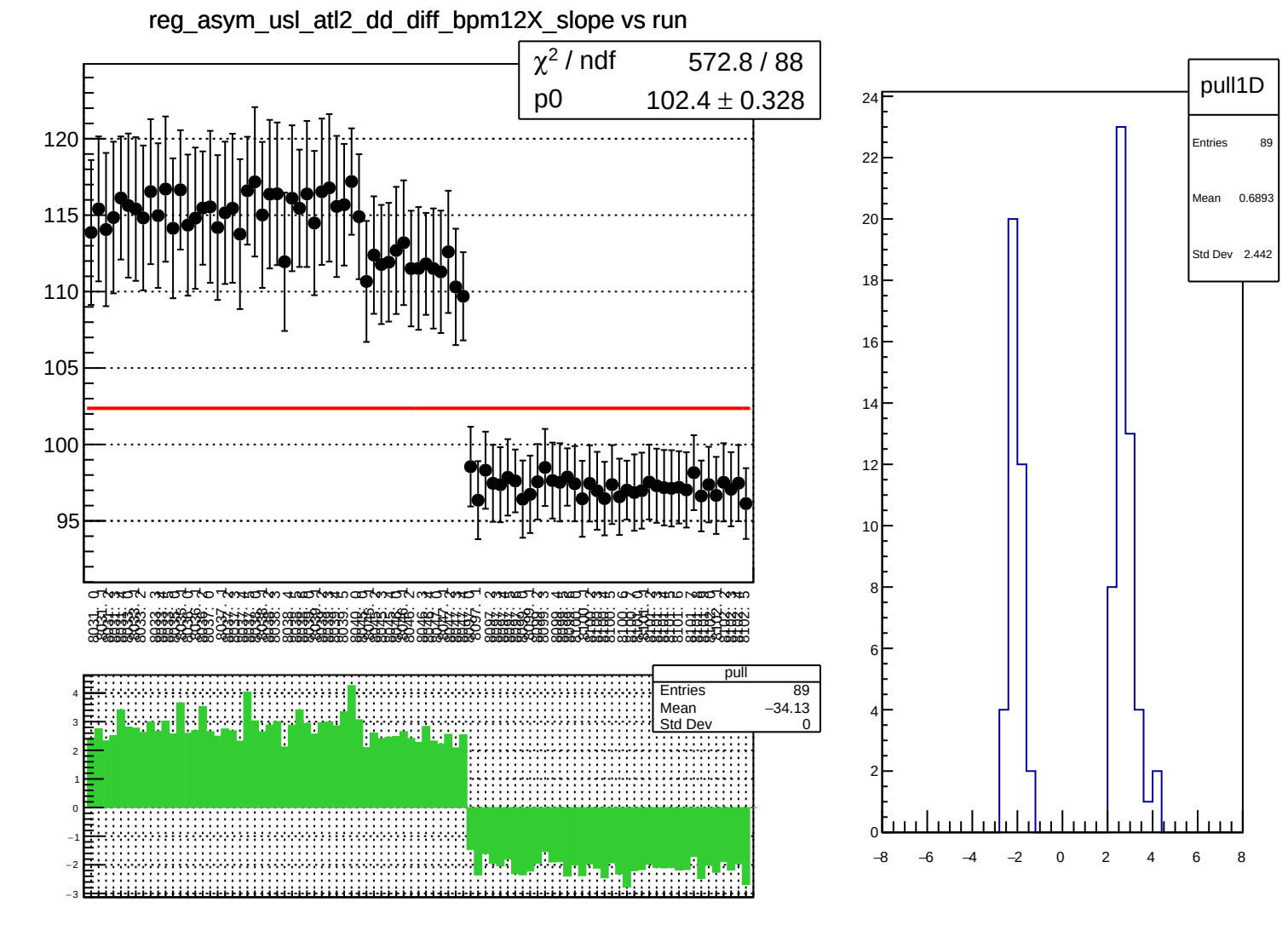

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 36.95 / 88
p0 186.9 ± 3.929
pull
Entries 89
Mean 453.4
Std Dev 0
pull1D
Entries 89
Mean −0.0348
Std Dev 0.6434

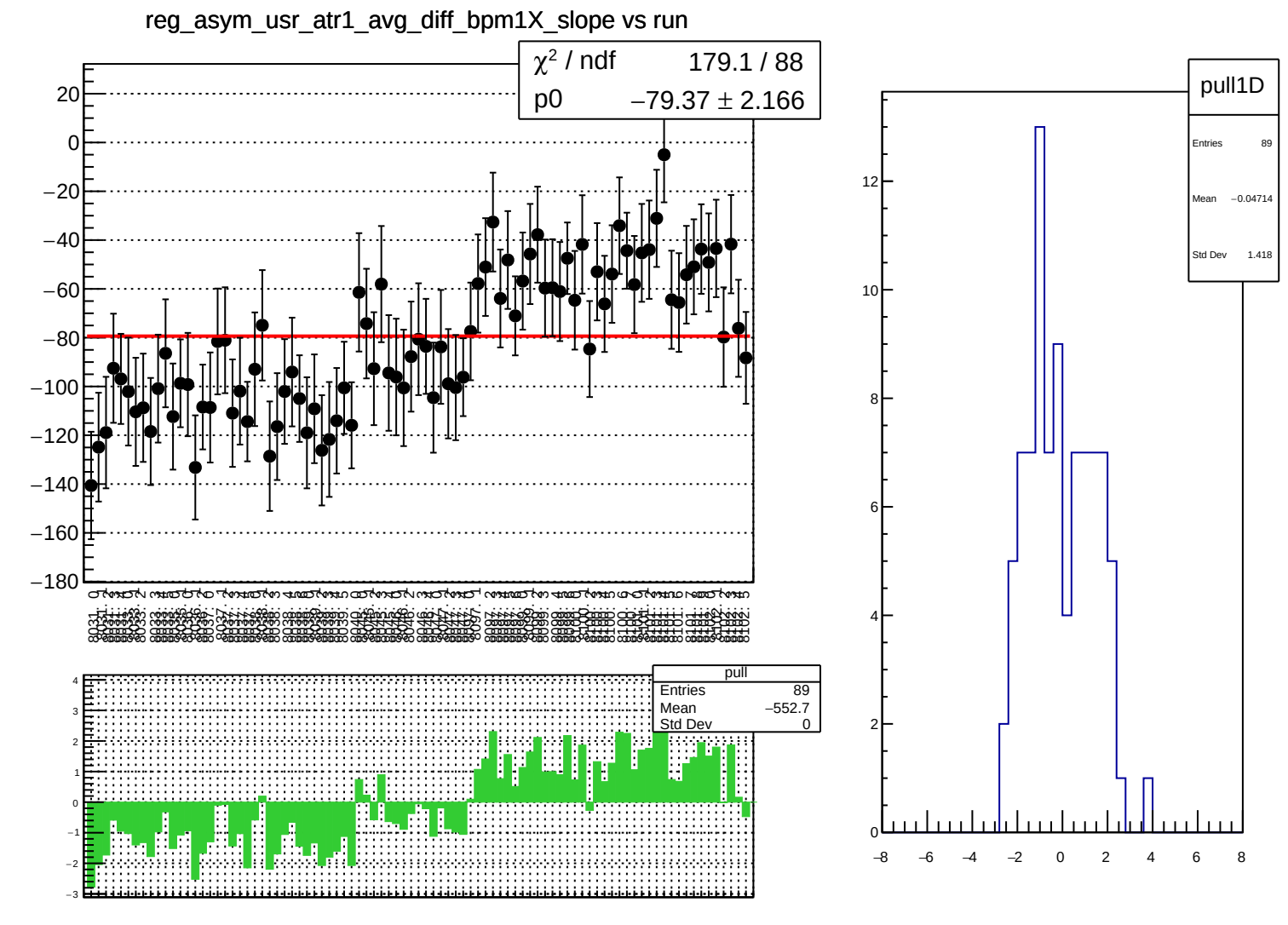

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.786 / 88
p0 −47.82 ± 6.491
50
0
−50
−100
−150
pull
Entries 89
Mean −1579
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

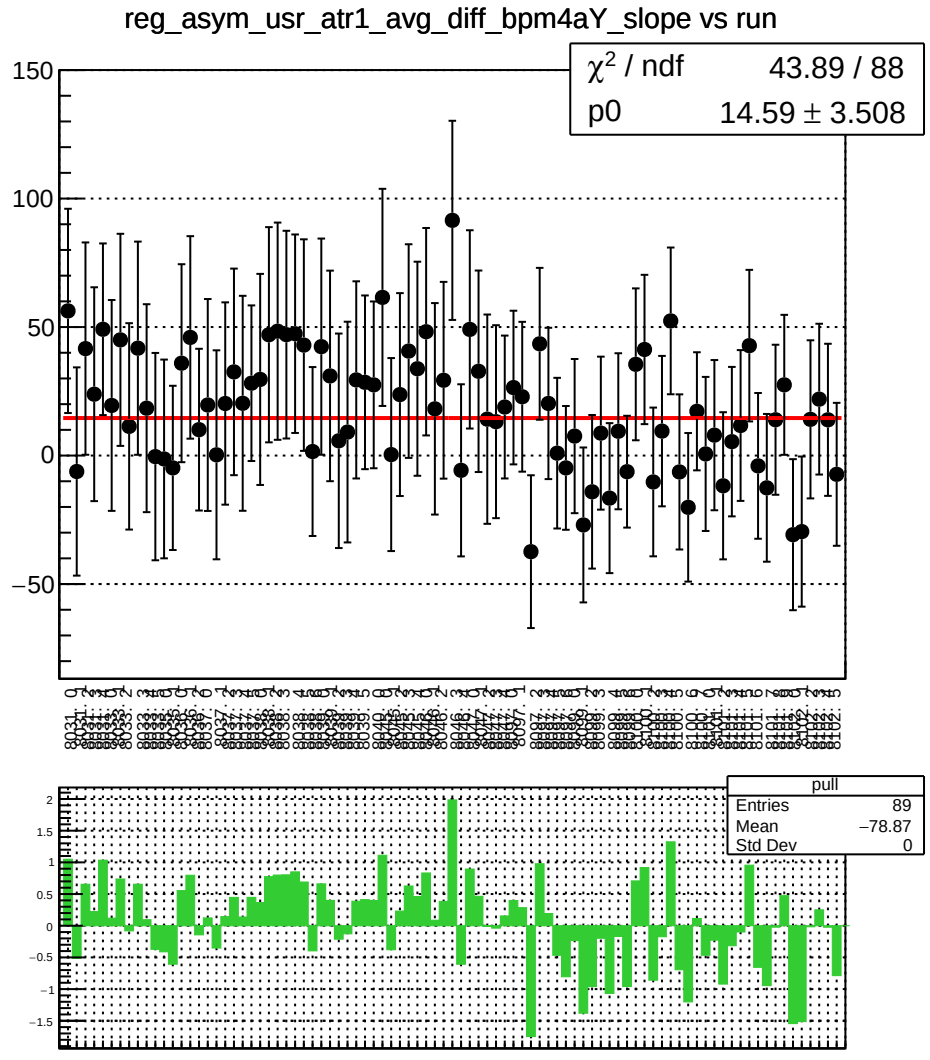

pull1D
Entries 89
Mean −0.001649
Std Dev 0.2319
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

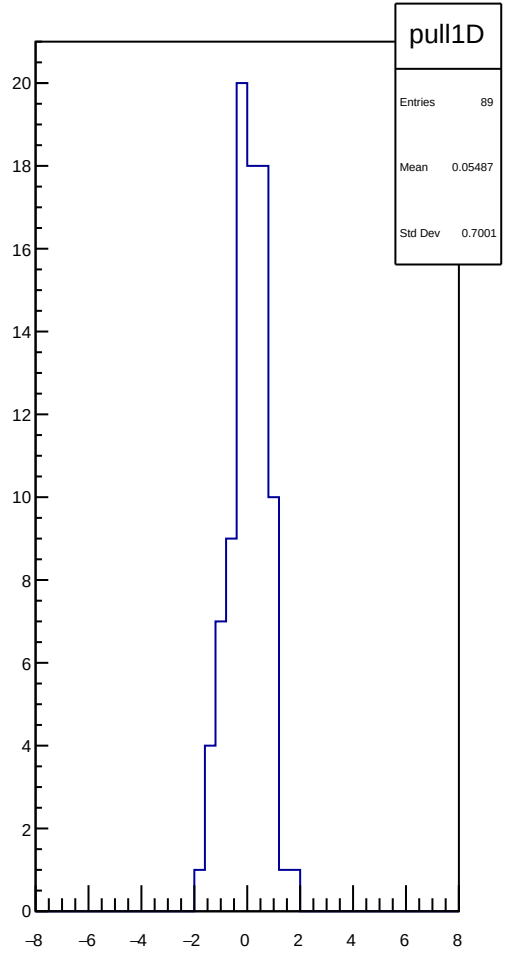

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.5 / 88
p0 −154.9 ± 4.142
pull
Entries 89
Mean −760.5
Std Dev 0
pull1D
Entries 89
Mean −0.01215
Std Dev 0.4679

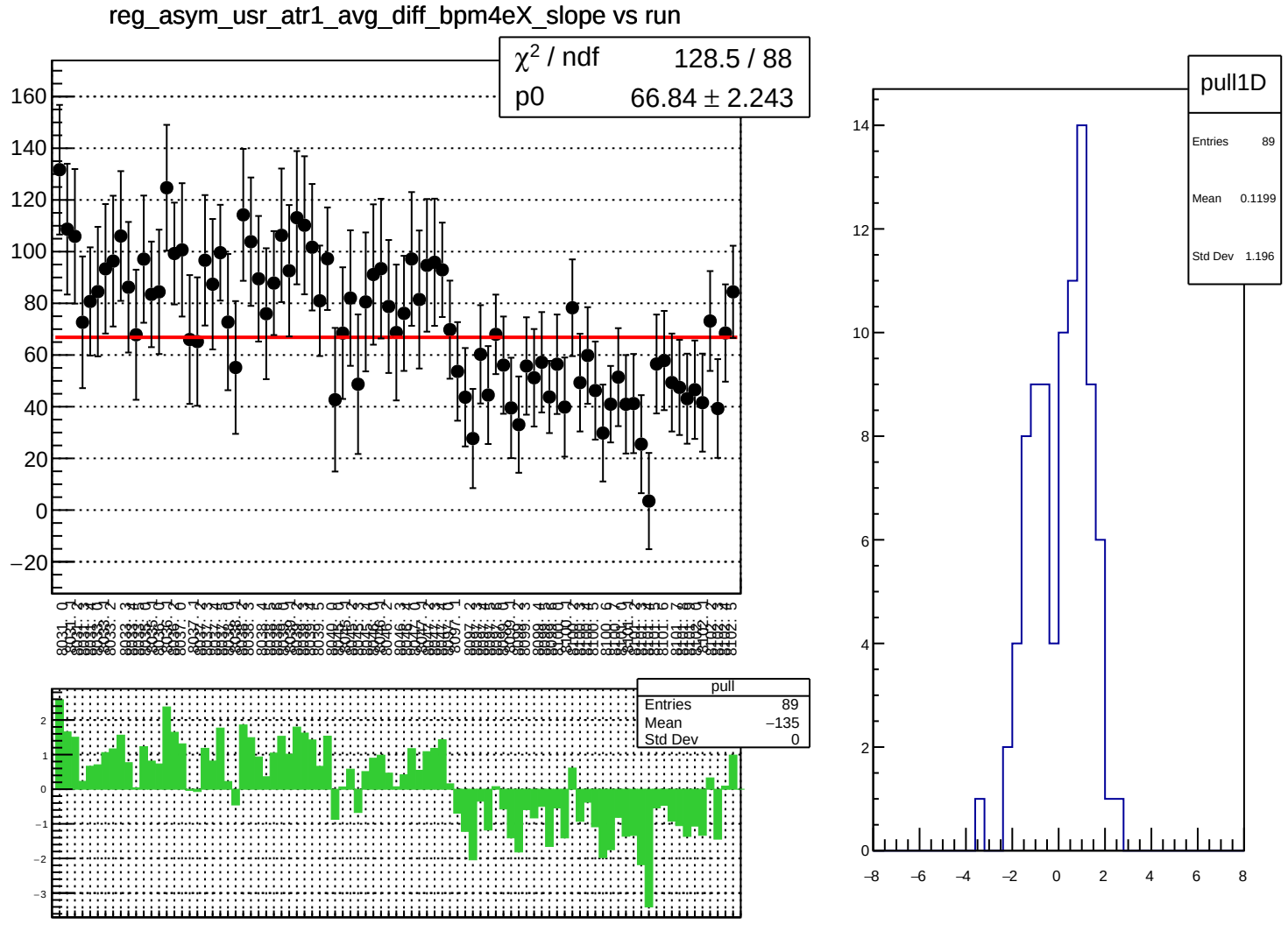

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.388 / 88
p0 3.331 ± 6.9
100
50
0
−50
−100
pull
Entries 89
Mean 5026
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 89
Mean −0.0003797
Std Dev 0.222
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

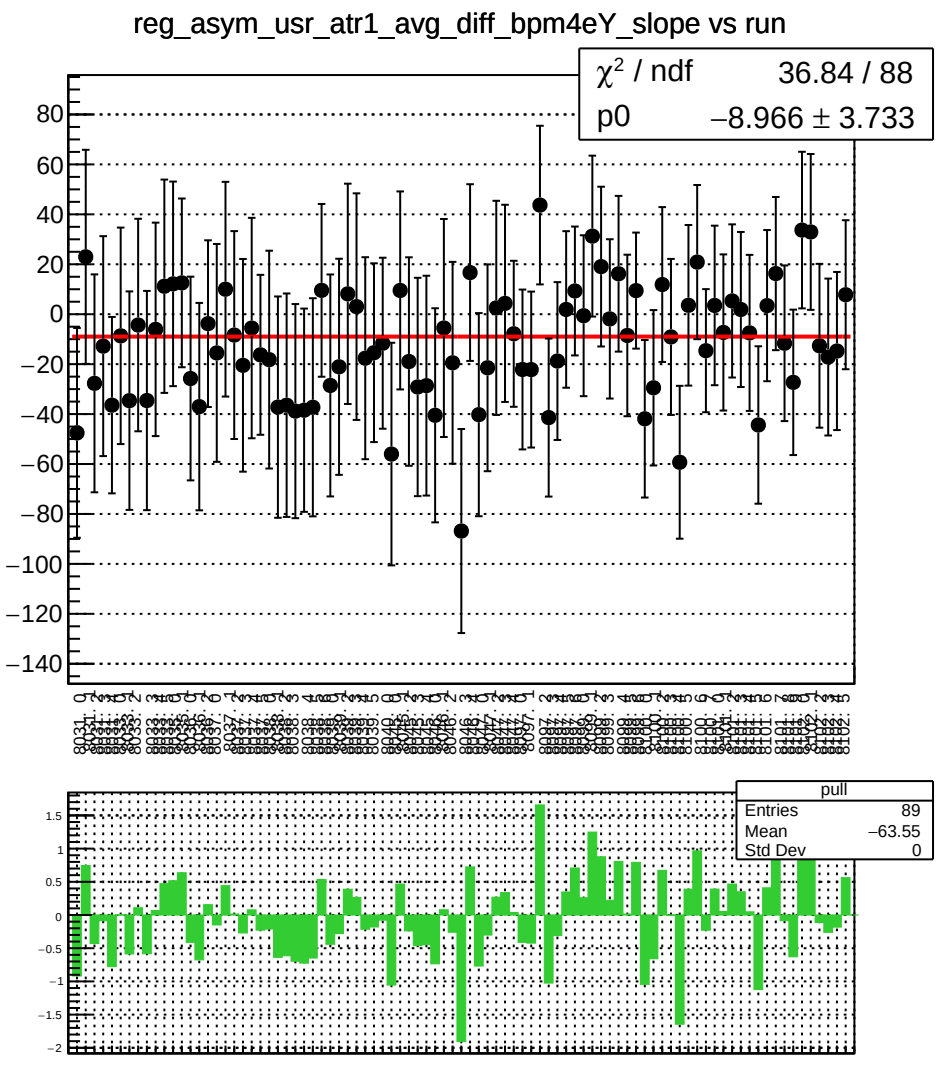

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 572.8 / 88
p0 102.4 ± 0.328
pull
Entries 89
Mean −34.13
Std Dev 0
pull1D
Entries 89
Mean 0.6893
Std Dev 2.442

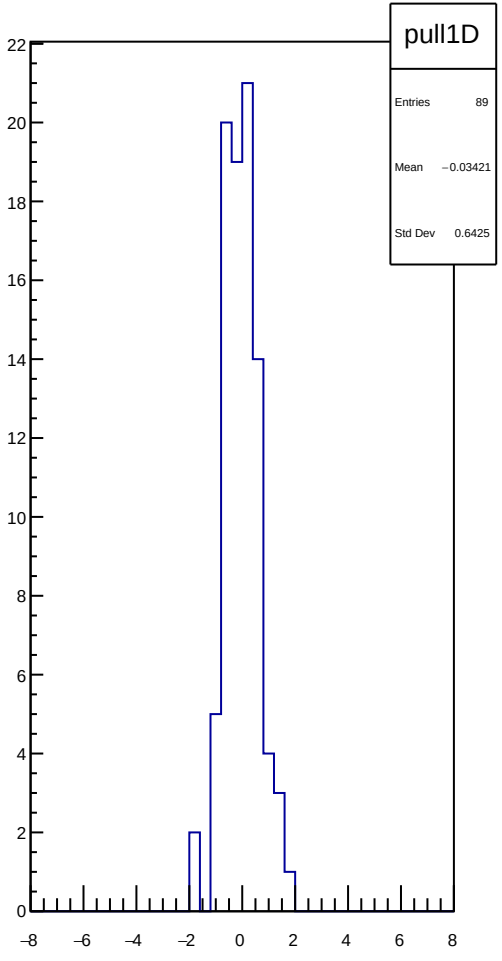

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 179.1 / 88
p0 −79.37 ± 2.166
pull
Entries 89
Mean −552.7
Std Dev 0
pull1D
Entries 89
Mean −0.04714
Std Dev 1.418

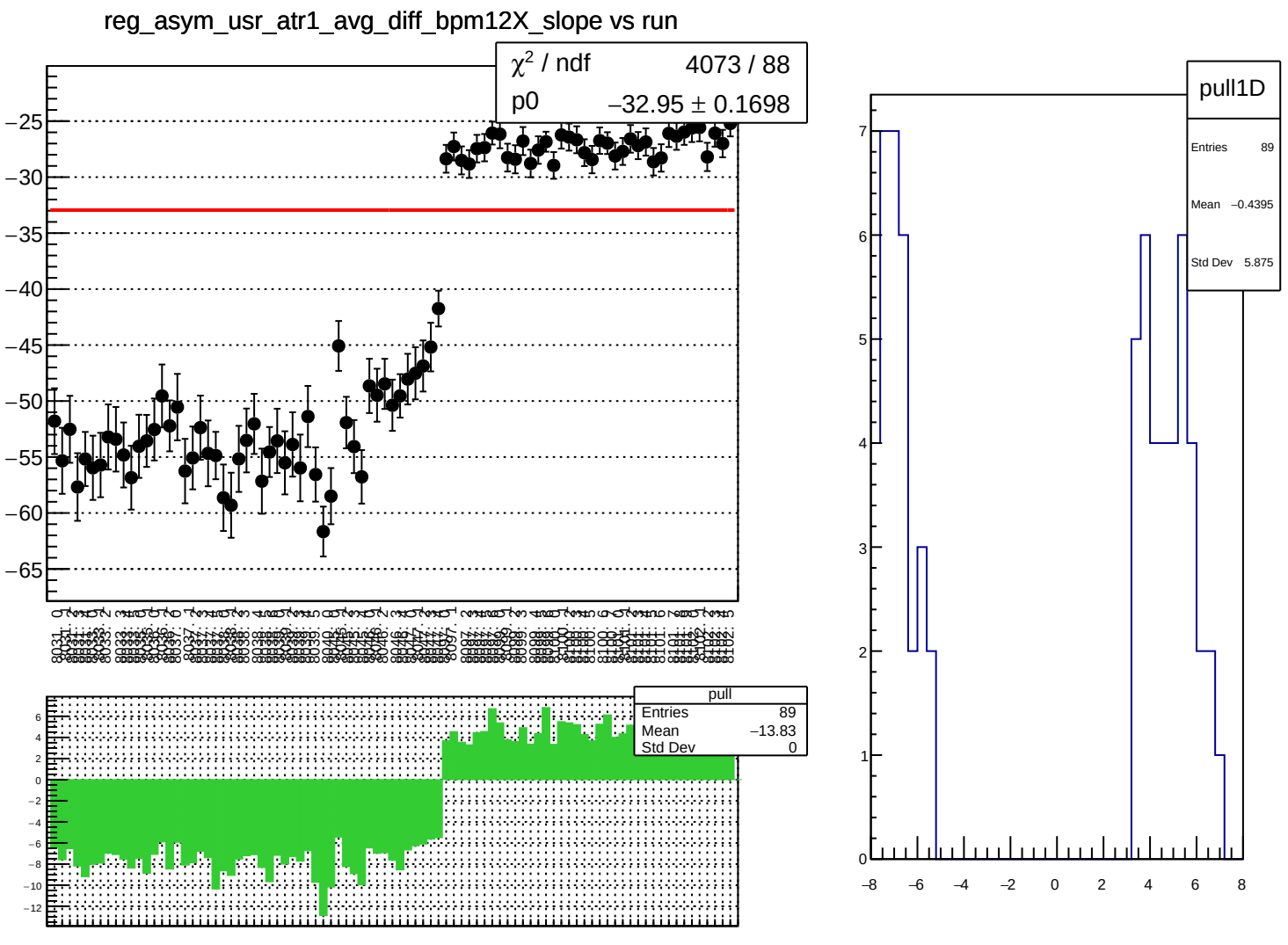

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 43.89 / 88
p0 14.59 ± 3.508
150
100
50
0
−50
pull
Entries 89
Mean −78.87
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

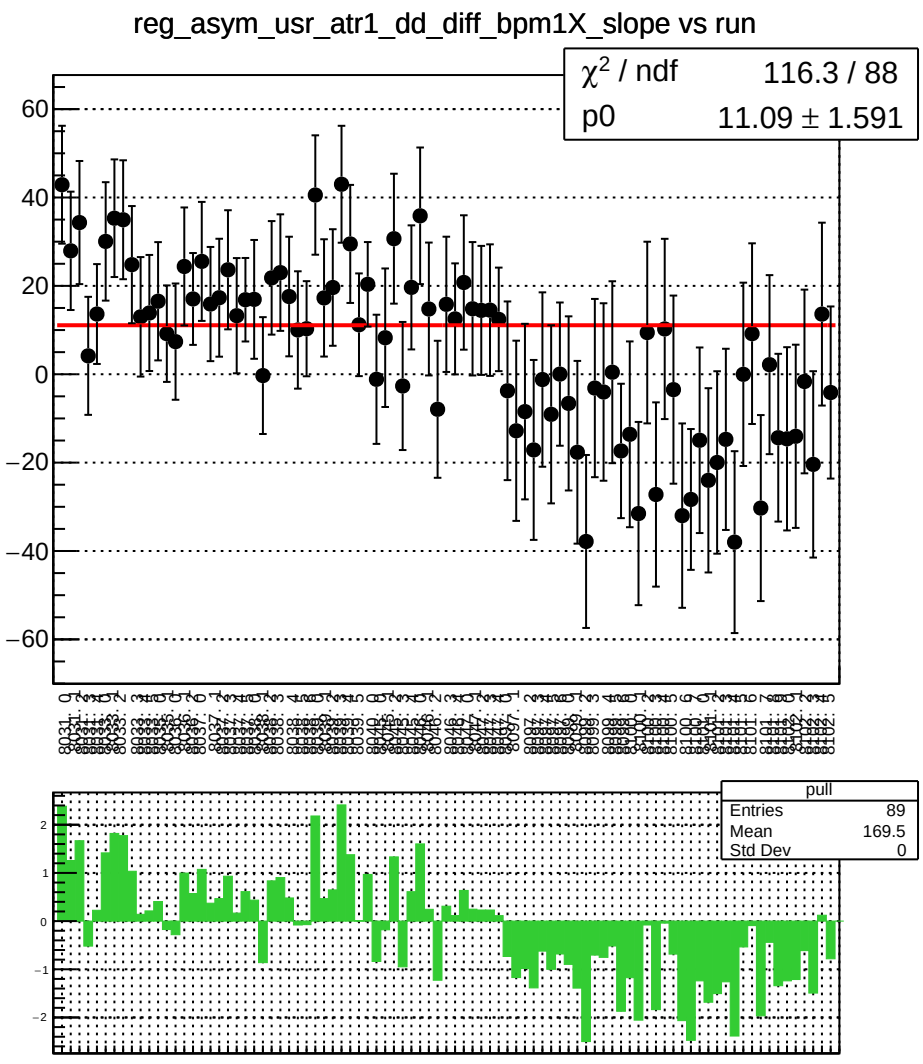

pull1D
Entries 89
Mean 0.05487
Std Dev 0.7001
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

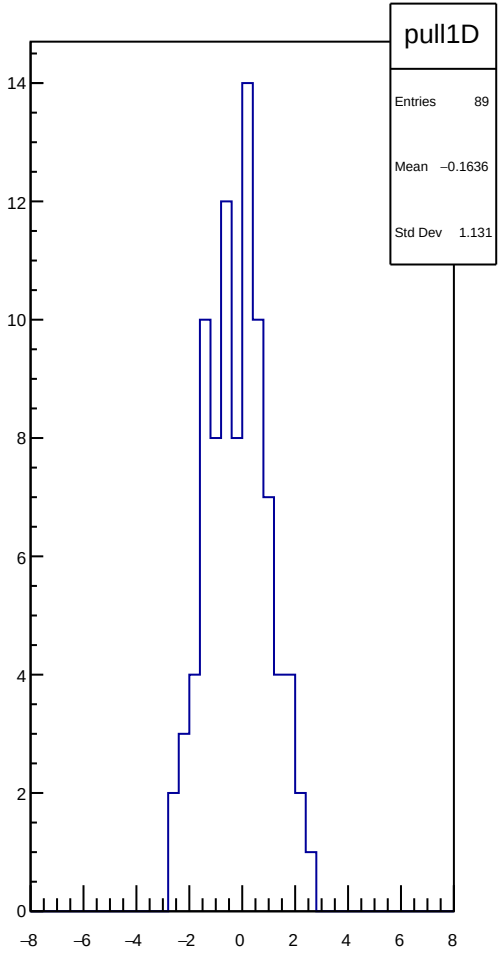

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 128.5 / 88
p0 66.84 ± 2.243
160
140
120
100
80
60
40
20
0
−20
pull
Entries 89
Mean −135
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.1199
Std Dev 1.196
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

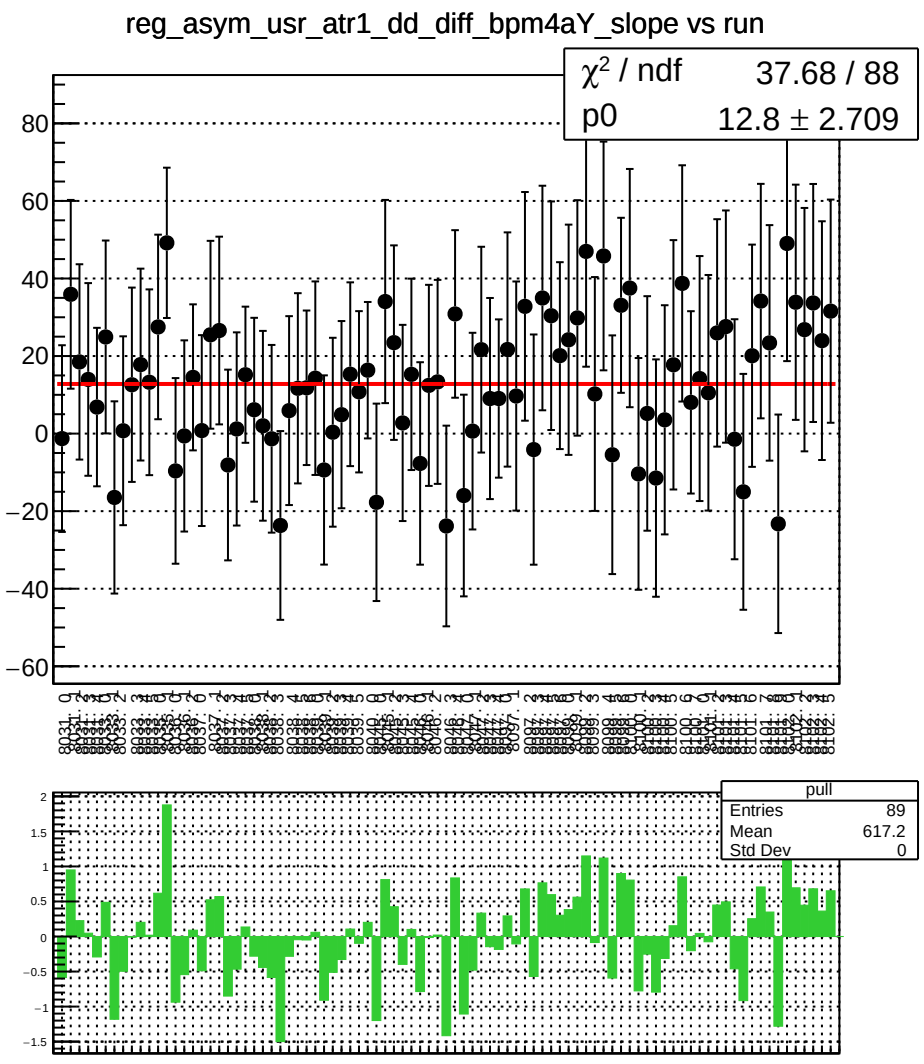

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 36.84 / 88
p0 −8.966 ± 3.733
pull
Entries 89
Mean −63.55
Std Dev 0

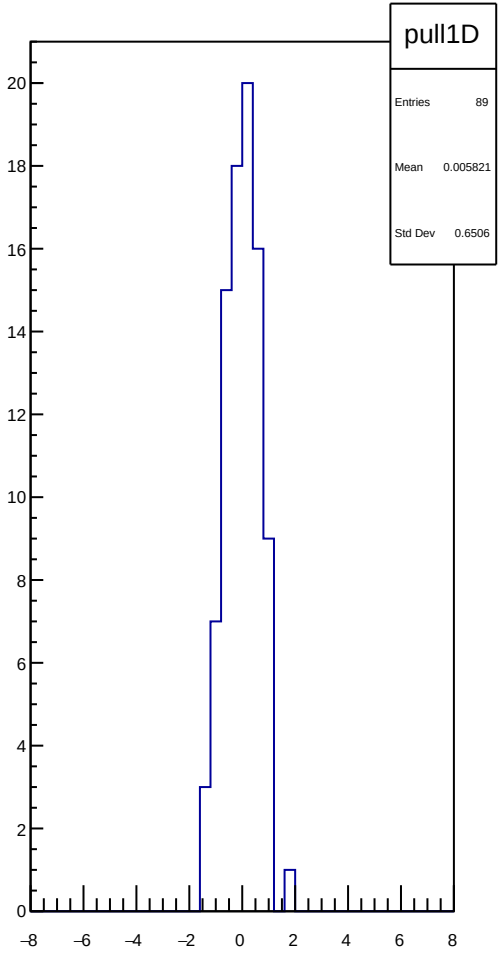

pull1D
Entries 89
Mean −0.03421
Std Dev 0.6425

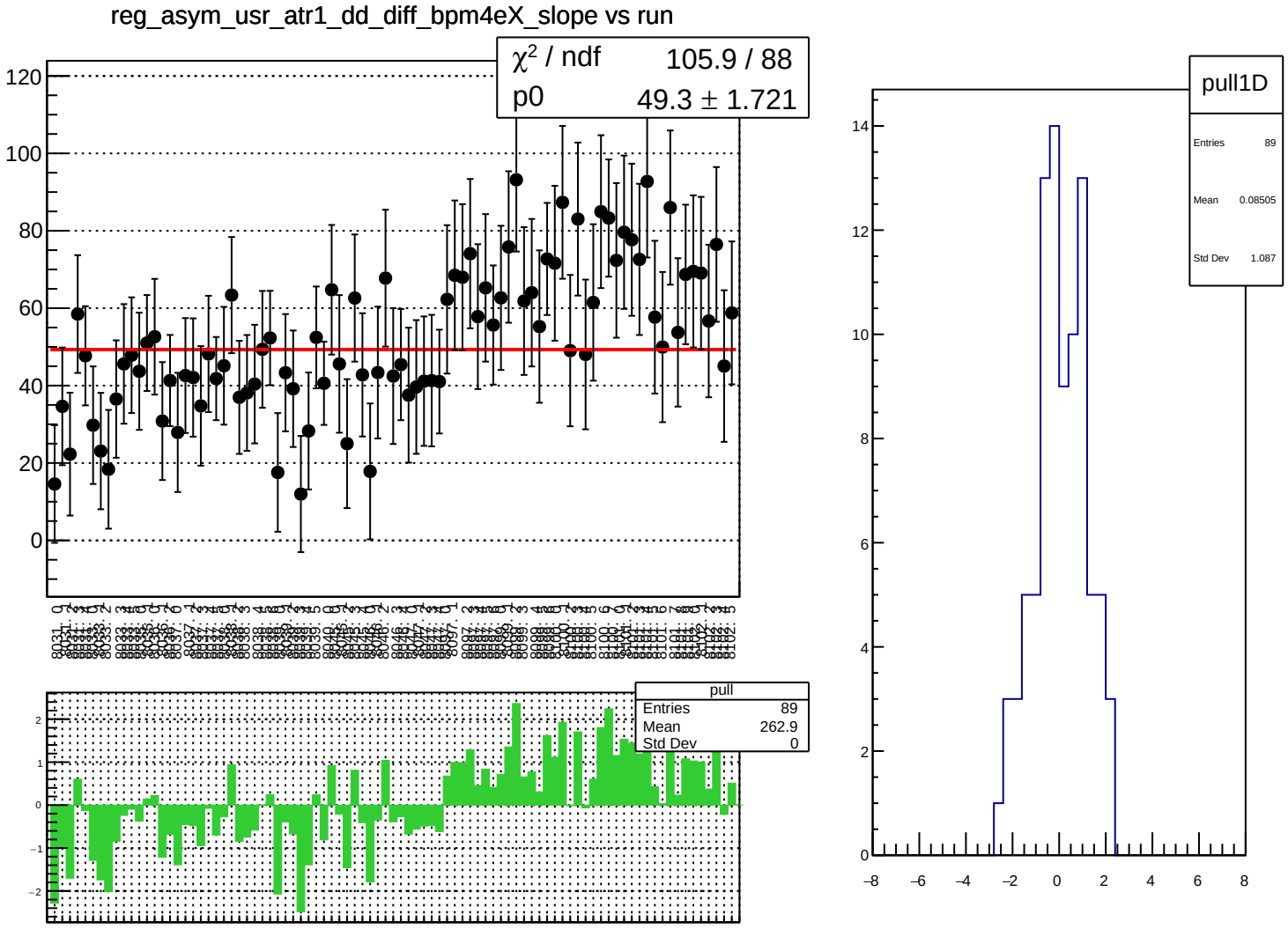

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 4073 / 88
p0 −32.95 ± 0.1698
pull
Entries 89
Mean −13.83
Std Dev 0
pull1D
Entries 89
Mean −0.4395
Std Dev 5.875

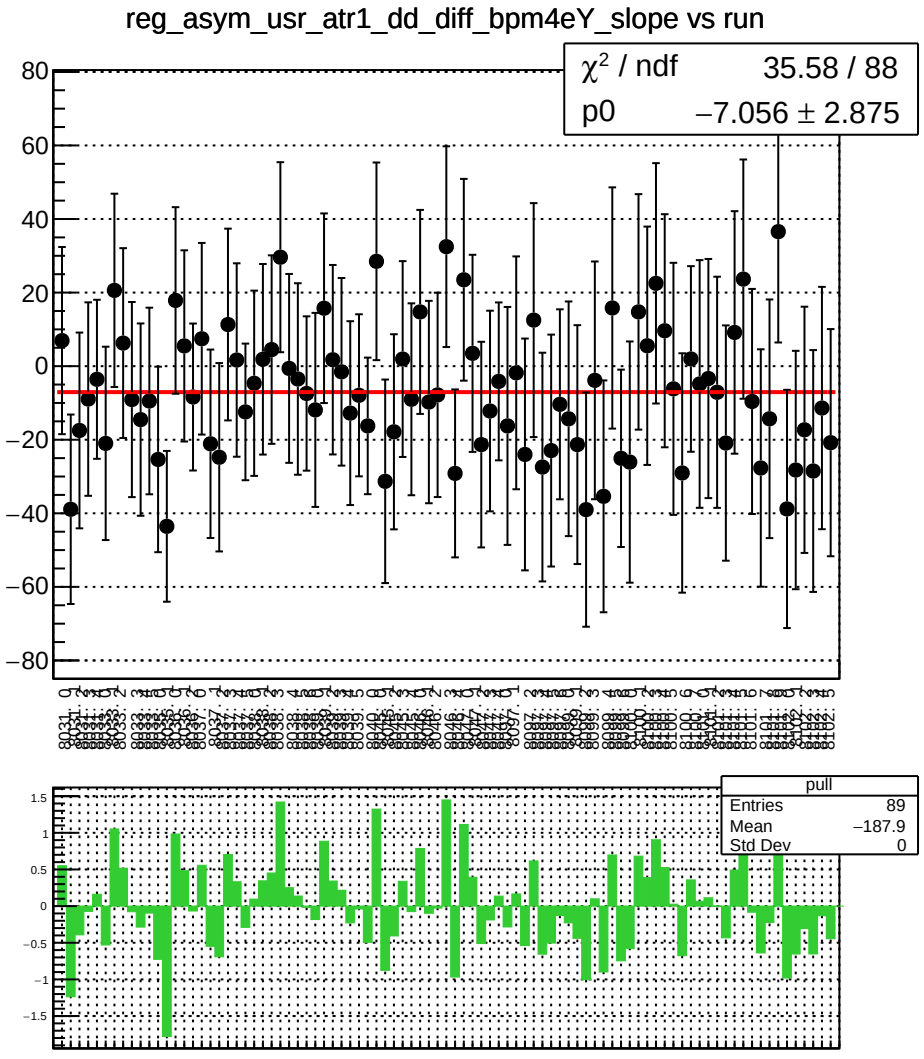

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 116.3 / 88
p0 11.09 ± 1.591
pull
Entries 89
Mean 169.5
Std Dev 0

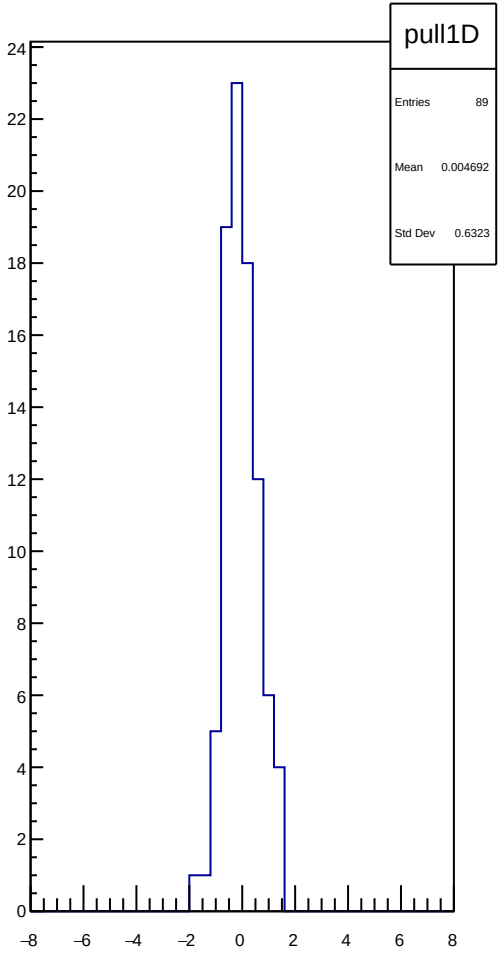

pull1D
Entries 89
Mean −0.1636
Std Dev 1.131

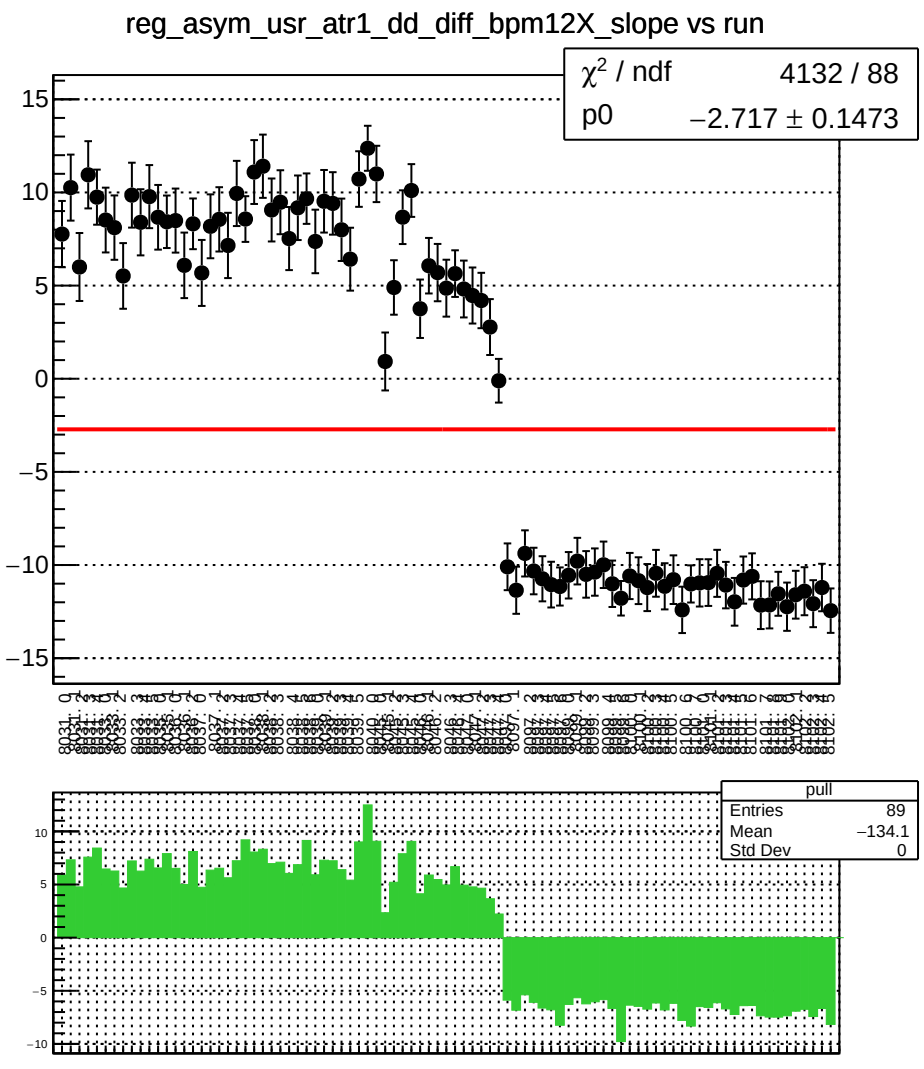

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 37.68 / 88
p0 12.8 ± 2.709
pull
Entries 89
Mean 617.2
Std Dev 0

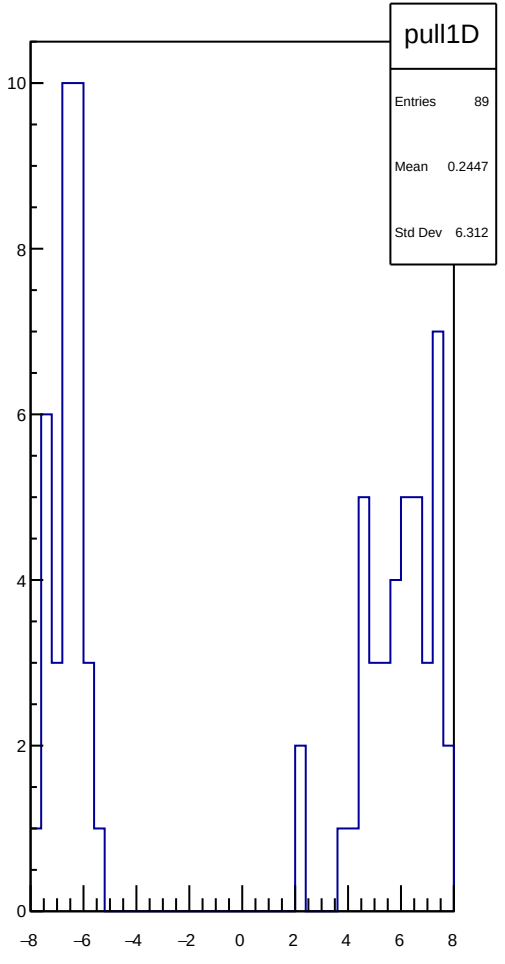

pull1D
Entries 89
Mean 0.005821
Std Dev 0.6506

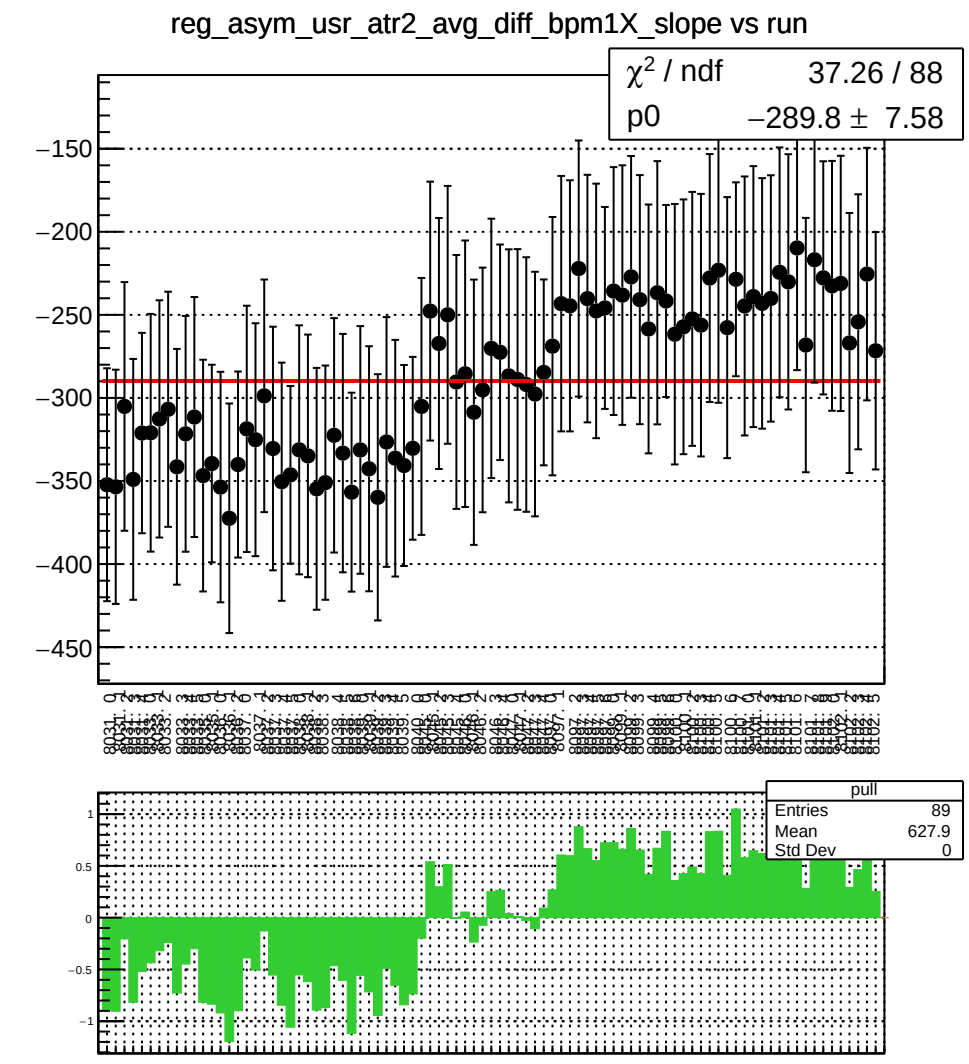

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 105.9 / 88
p0 49.3 ± 1.721
120
100
80
60
40
20
0
pull
Entries 89
Mean 262.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.08505
Std Dev 1.087
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

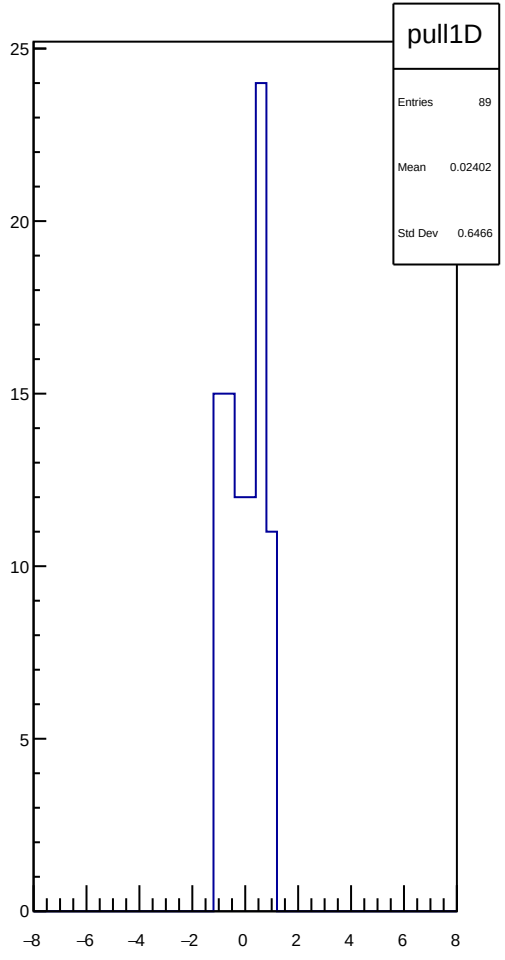

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 35.58 / 88
p0 −7.056 ± 2.875
pull
Entries 89
Mean −187.9
Std Dev 0

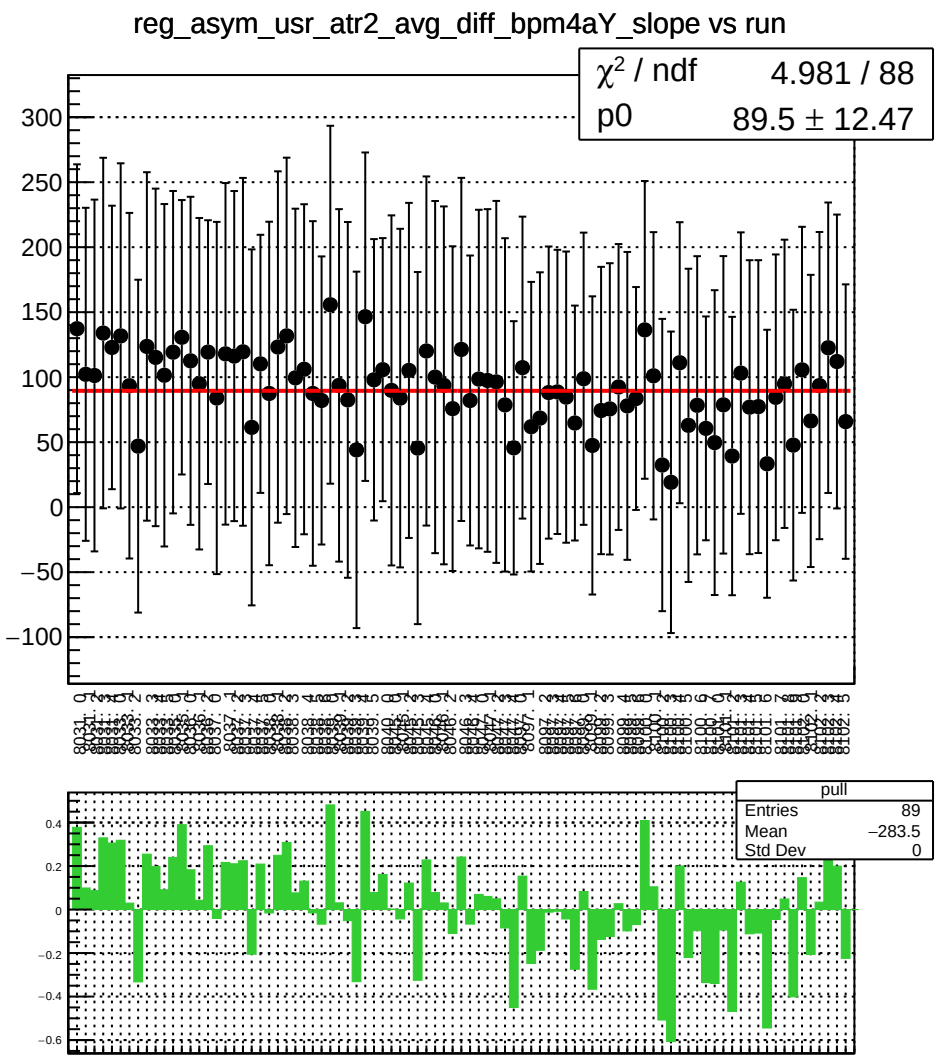

pull1D
Entries 89
Mean 0.004692
Std Dev 0.6323

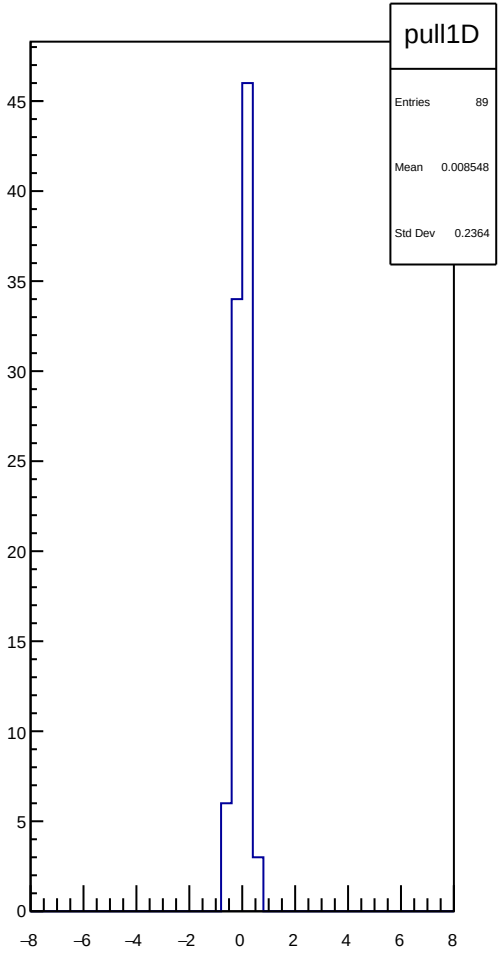

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 4132 / 88
p0 −2.717 ± 0.1473
pull
Entries 89
Mean −134.1
Std Dev 0

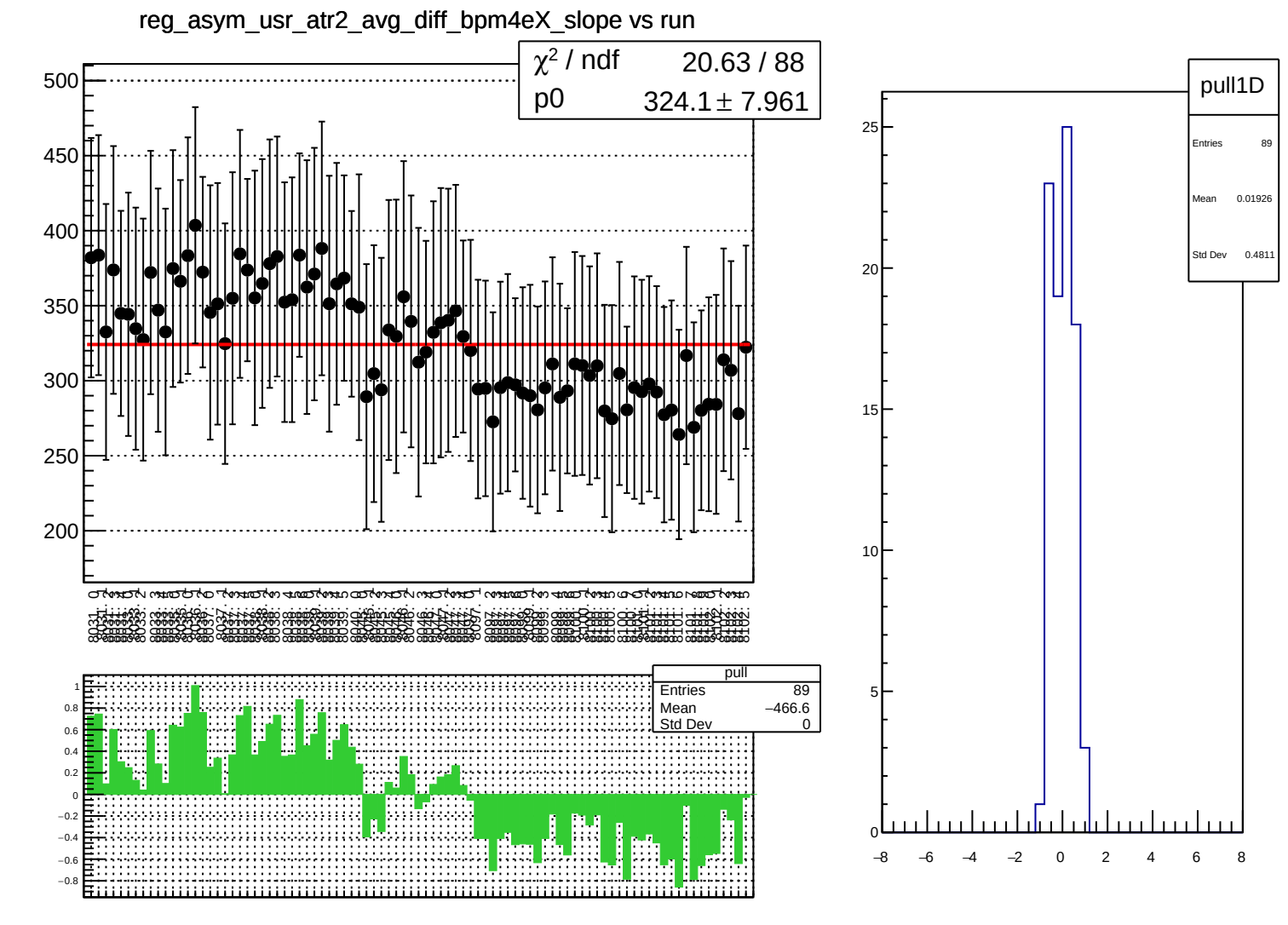

pull1D
Entries 89
Mean 0.2447
Std Dev 6.312

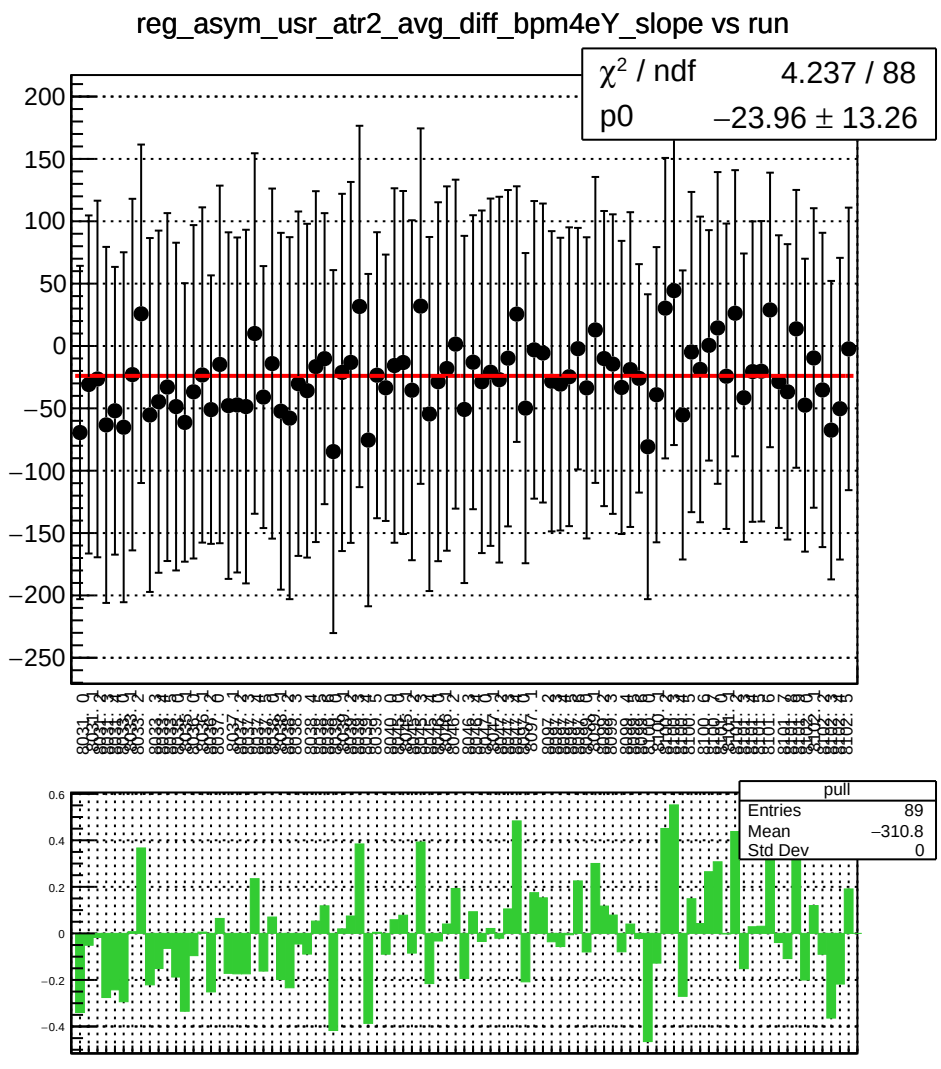

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 37.26 / 88
p0 −289.8 ± 7.58
−150
−200
−250
−300
−350
−400
−450
pull
Entries 89
Mean 627.9
Std Dev 0
1
0.5
0
−0.5
−1

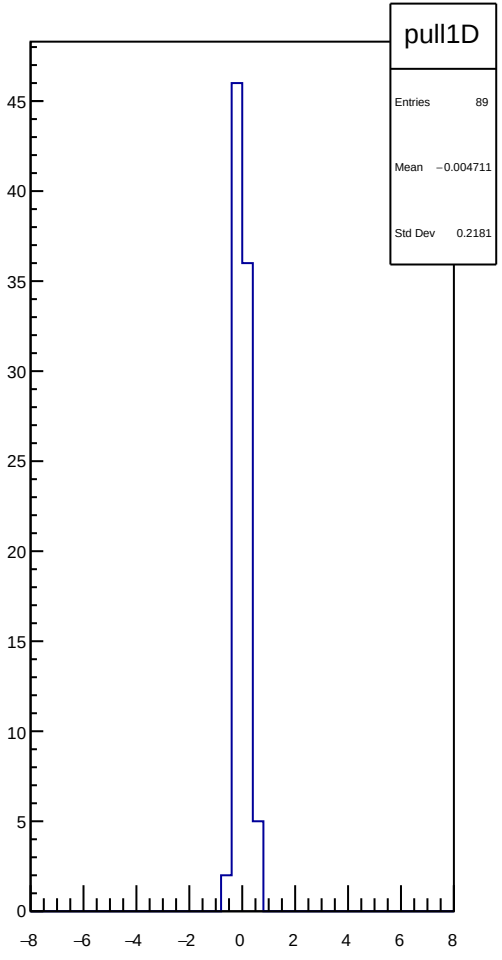

pull1D
Entries 89
Mean 0.02402
Std Dev 0.6466
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

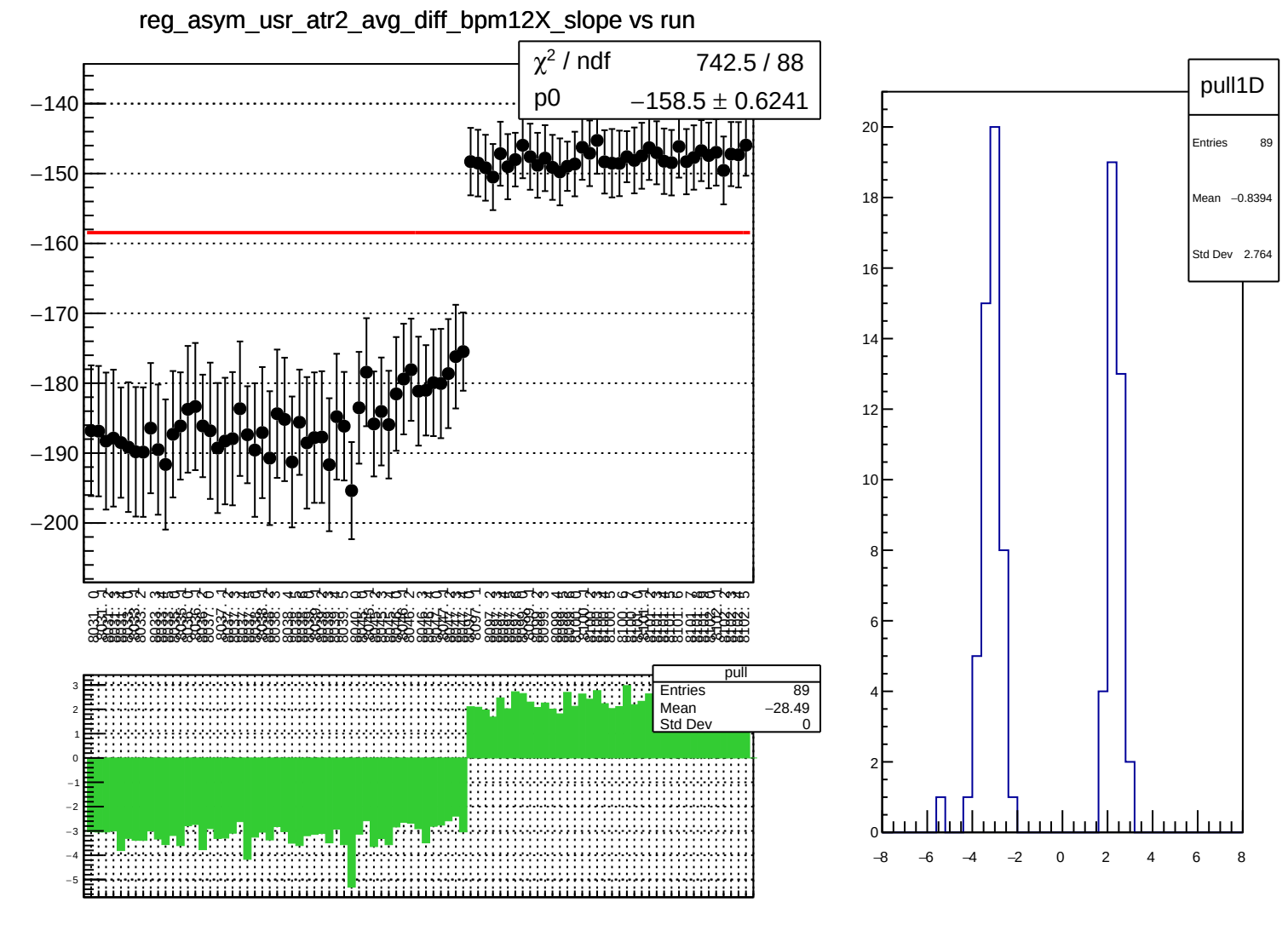

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.981 / 88
p0 89.5 ± 12.47
pull
Entries 89
Mean −283.5
Std Dev 0

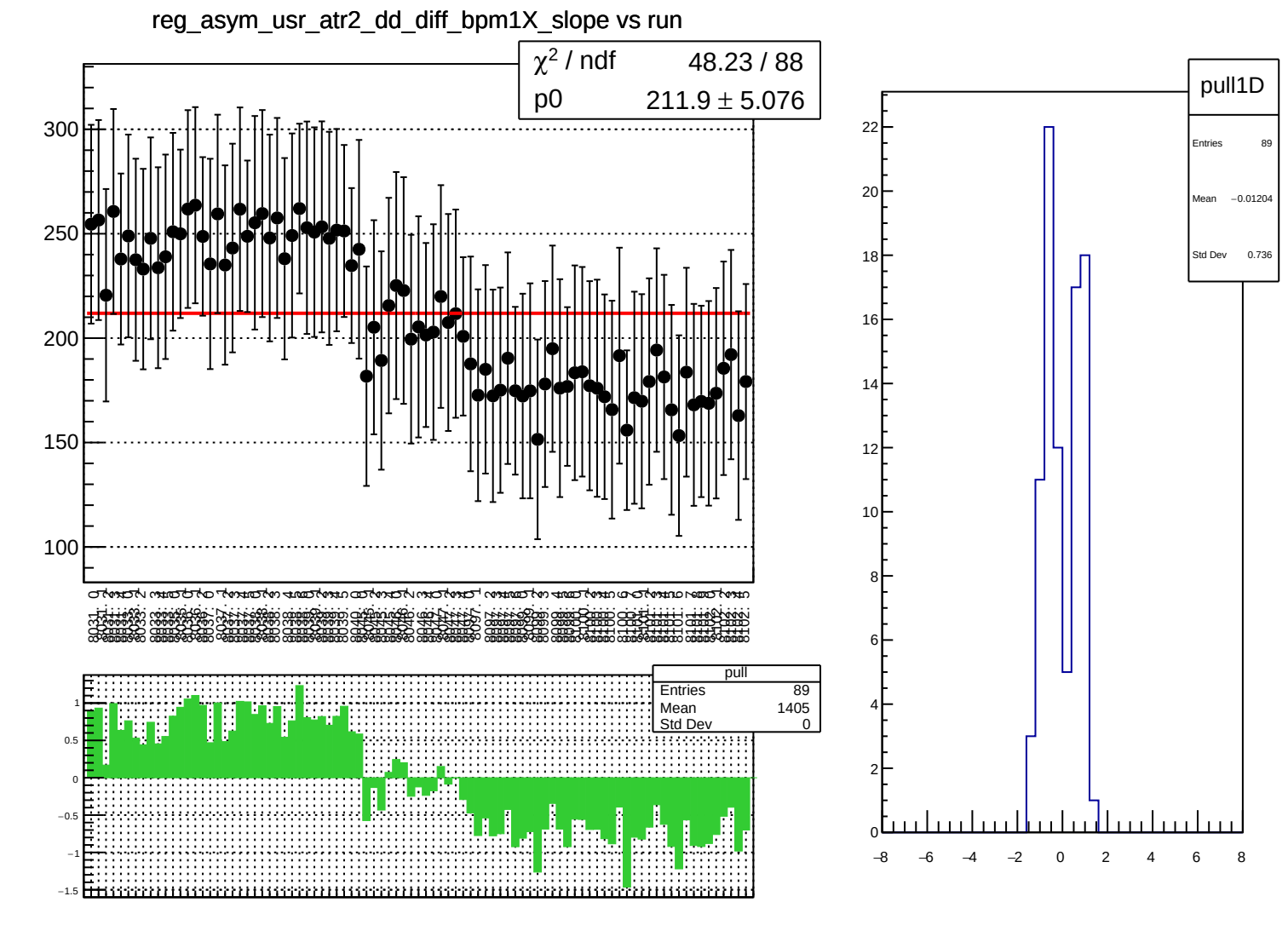

pull1D
Entries 89
Mean 0.008548
Std Dev 0.2364

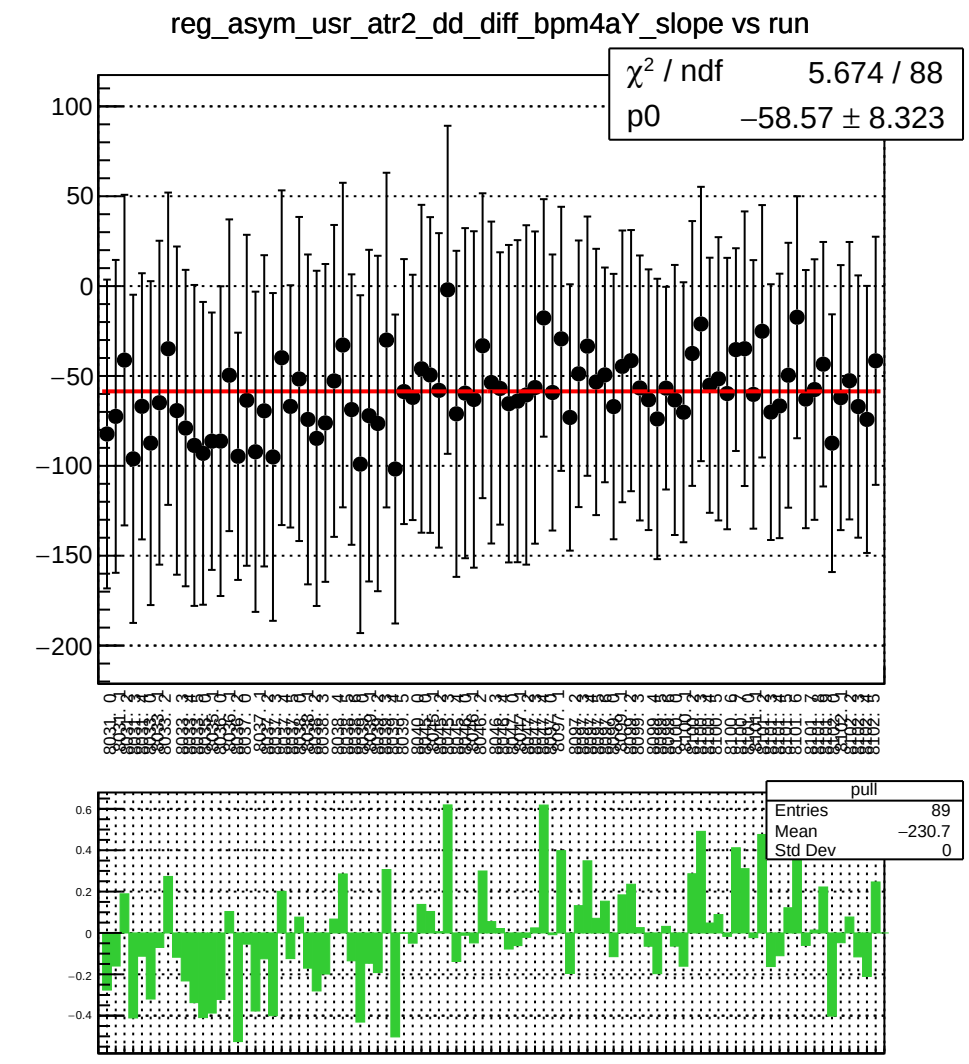

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 20.63 / 88
p0 324.1 ± 7.961
pull
Entries 89
Mean −466.6
Std Dev 0
pull1D
Entries 89
Mean 0.01926
Std Dev 0.4811

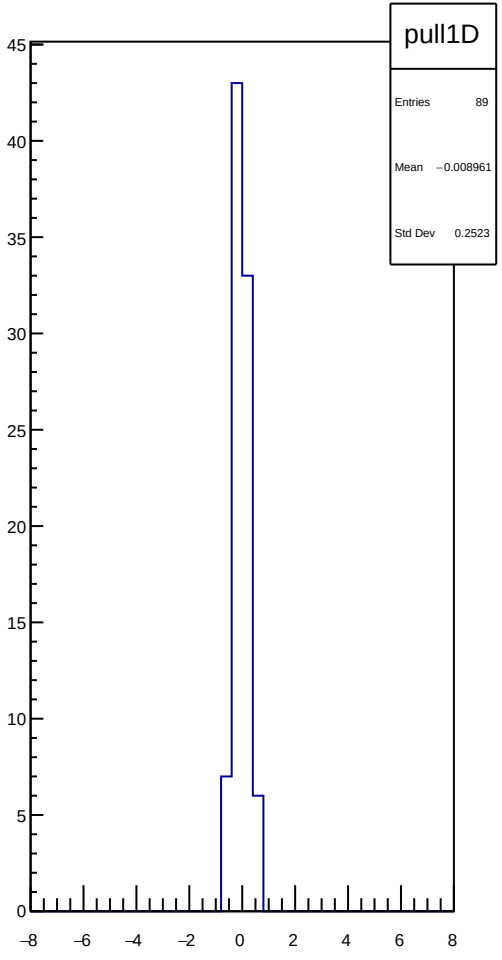

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.237 / 88
p0 −23.96 ± 13.26
pull
Entries 89
Mean −310.8
Std Dev 0

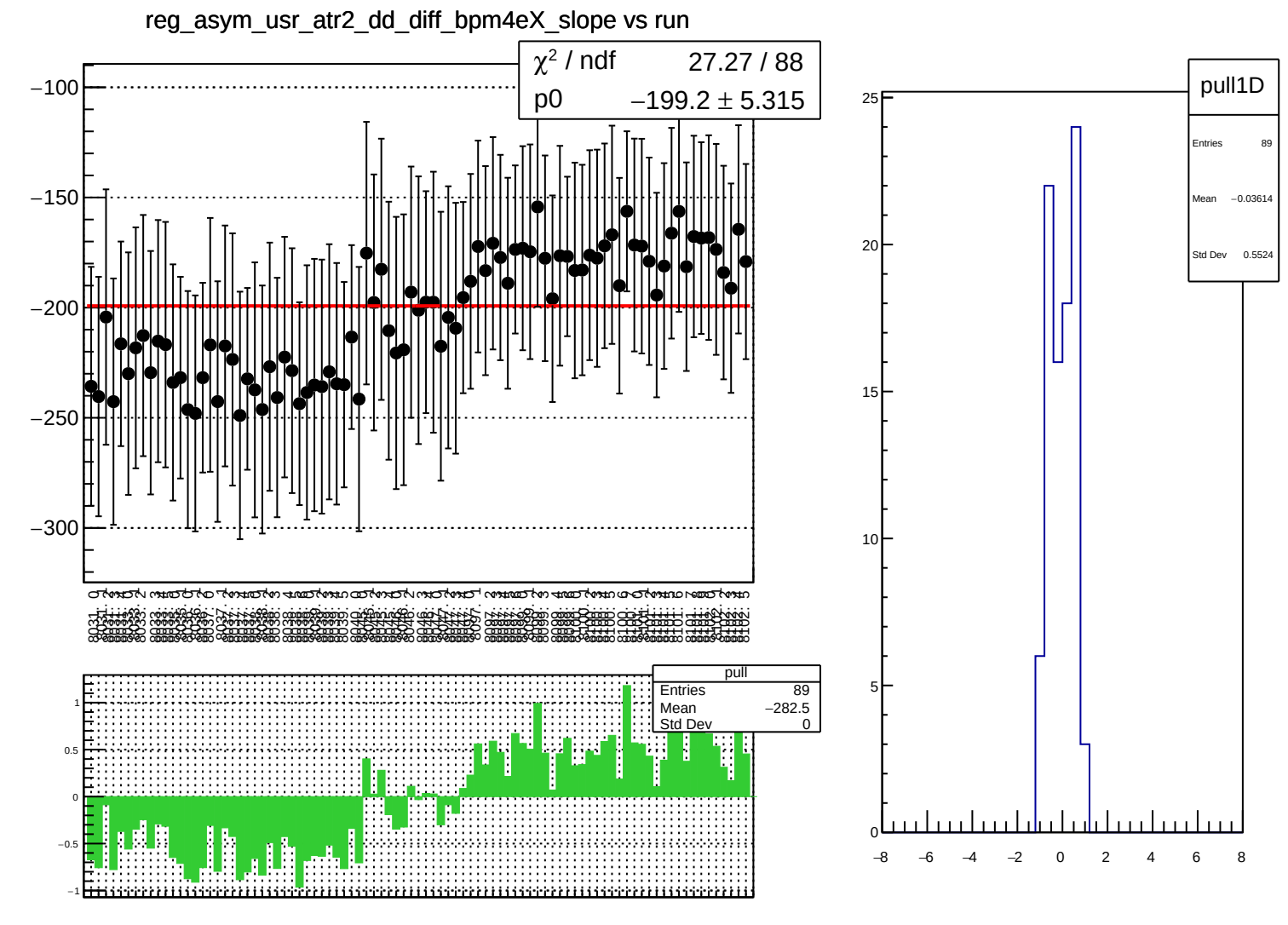

pull1D
Entries 89
Mean −0.004711
Std Dev 0.2181

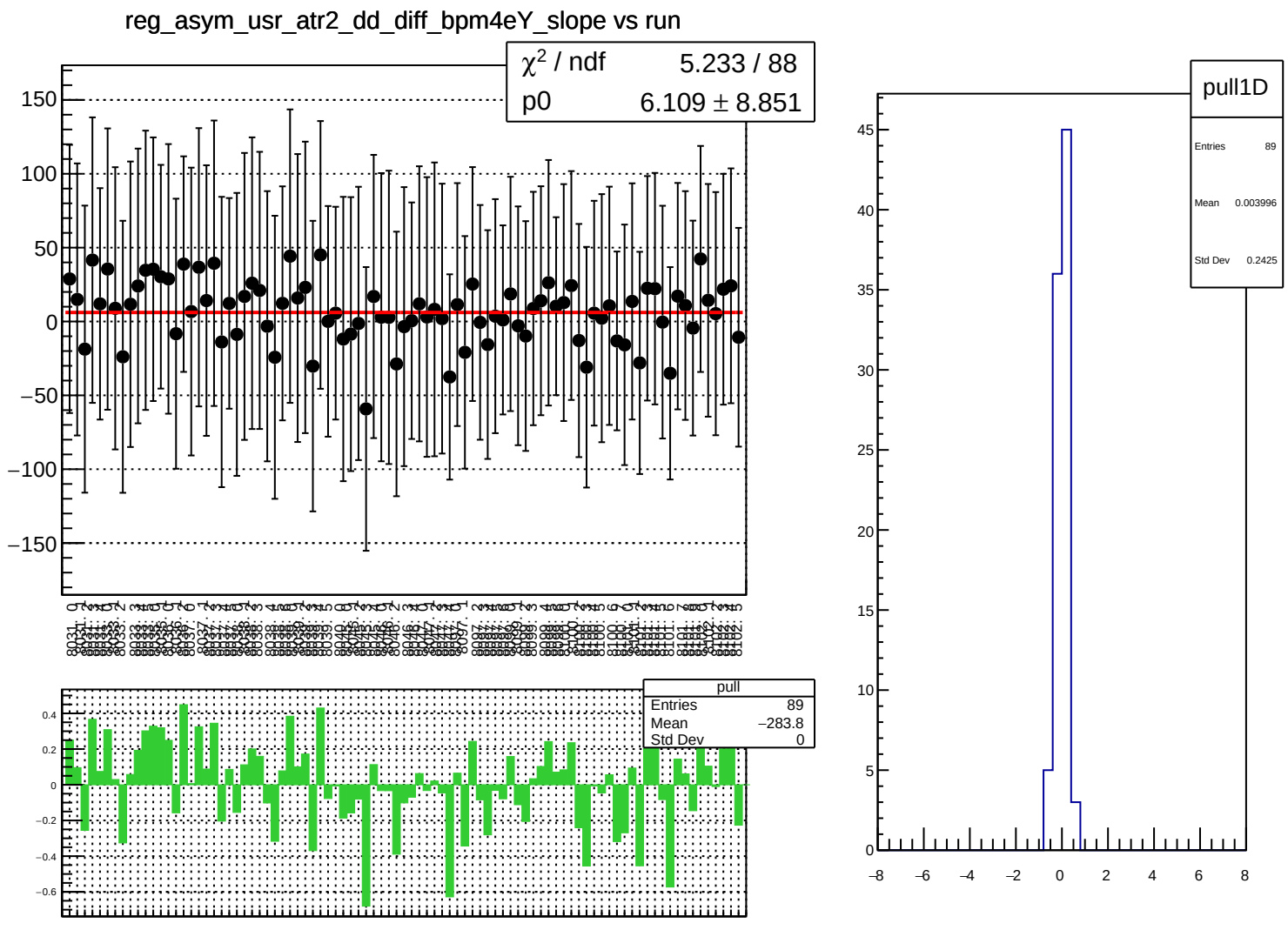

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 742.5 / 88
p0 −158.5 ± 0.6241
−140
−150
−160
−170
−180
−190
−200
pull
Entries 89
Mean −28.49
Std Dev 0
pull1D
Entries 89
Mean −0.8394
Std Dev 2.764

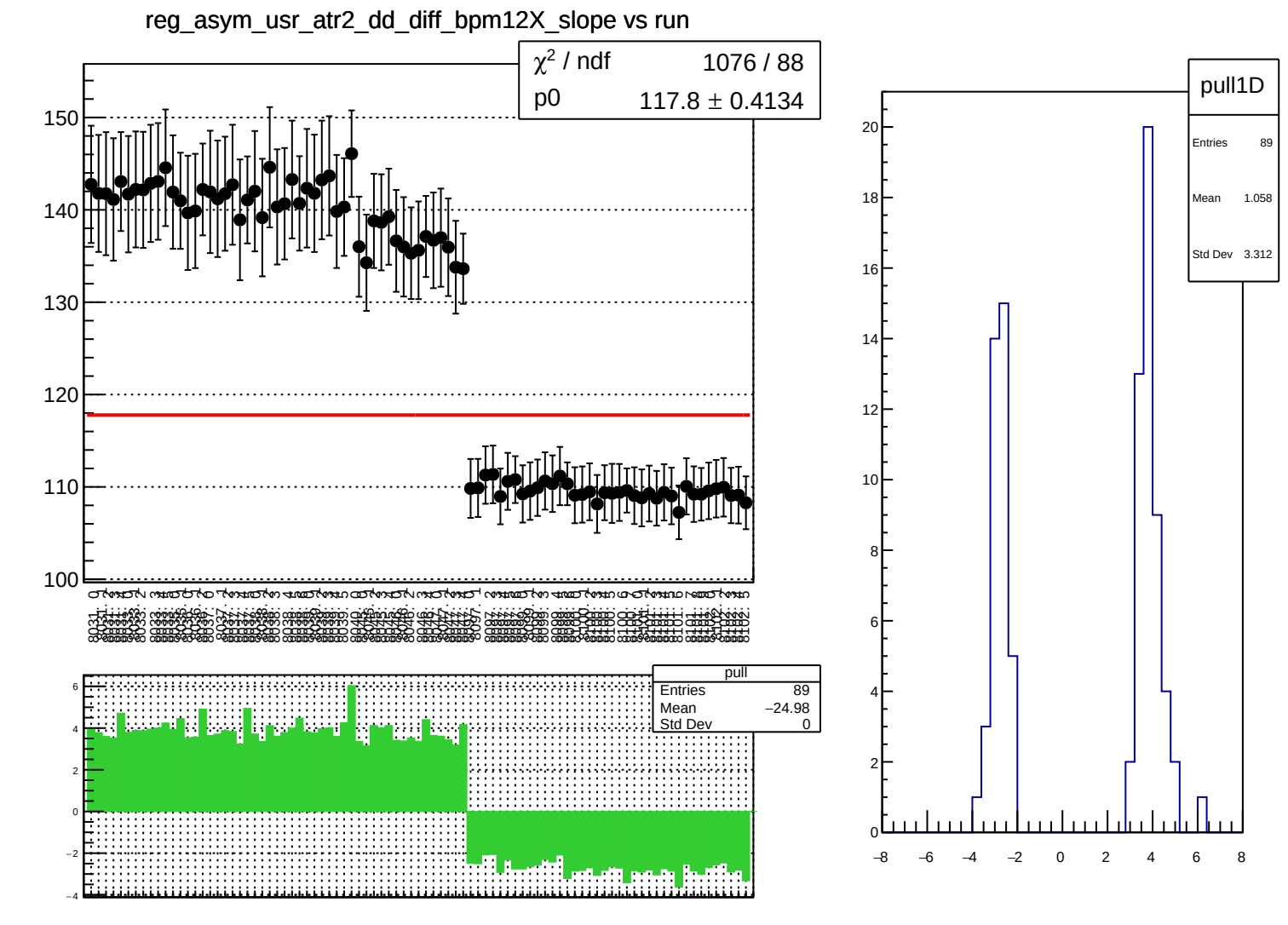

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 48.23 / 88
p0 211.9 ± 5.076
pull
Entries 89
Mean 1405
Std Dev 0
pull1D
Entries 89
Mean −0.01204
Std Dev 0.736

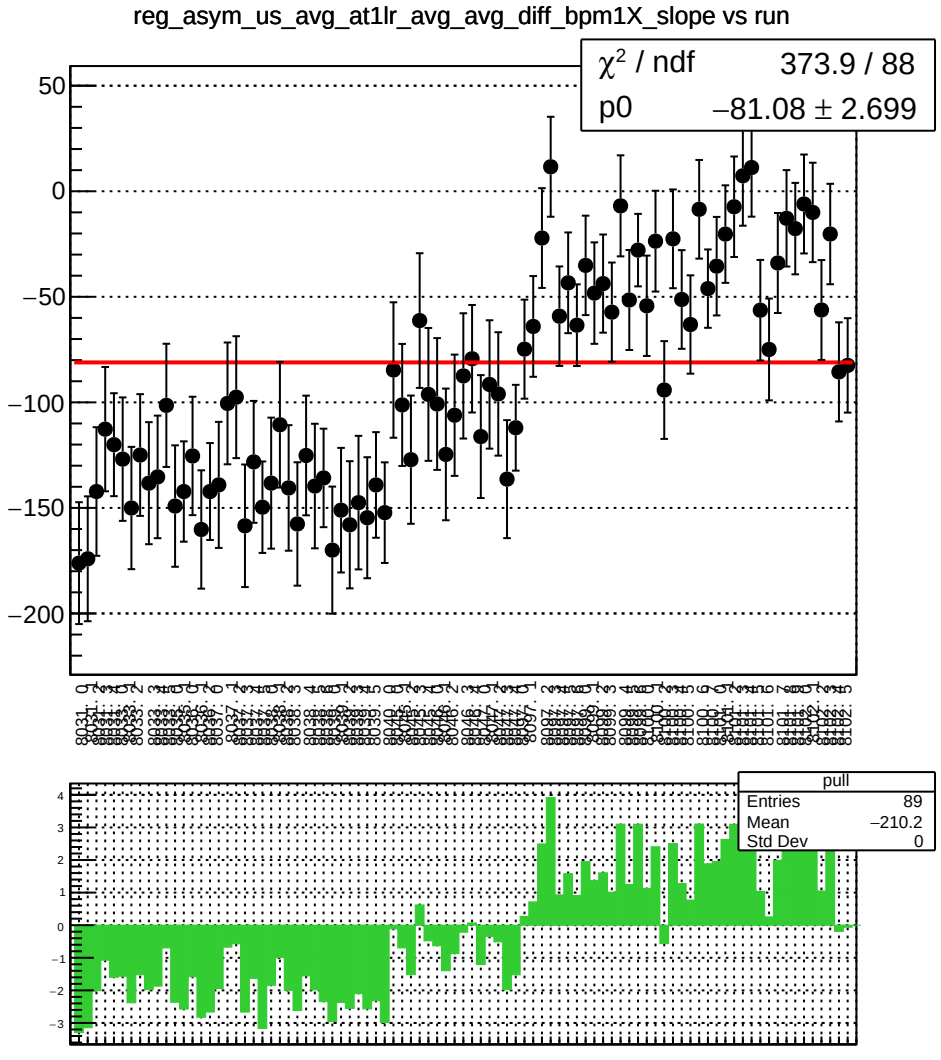

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.674 / 88
p0 −58.57 ± 8.323
pull
Entries 89
Mean −230.7
Std Dev 0

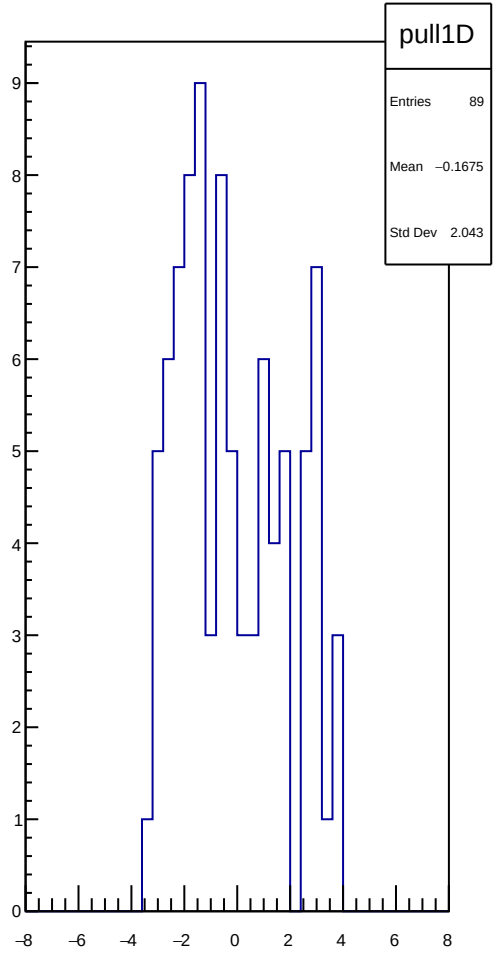

pull1D
Entries 89
Mean −0.008961
Std Dev 0.2523

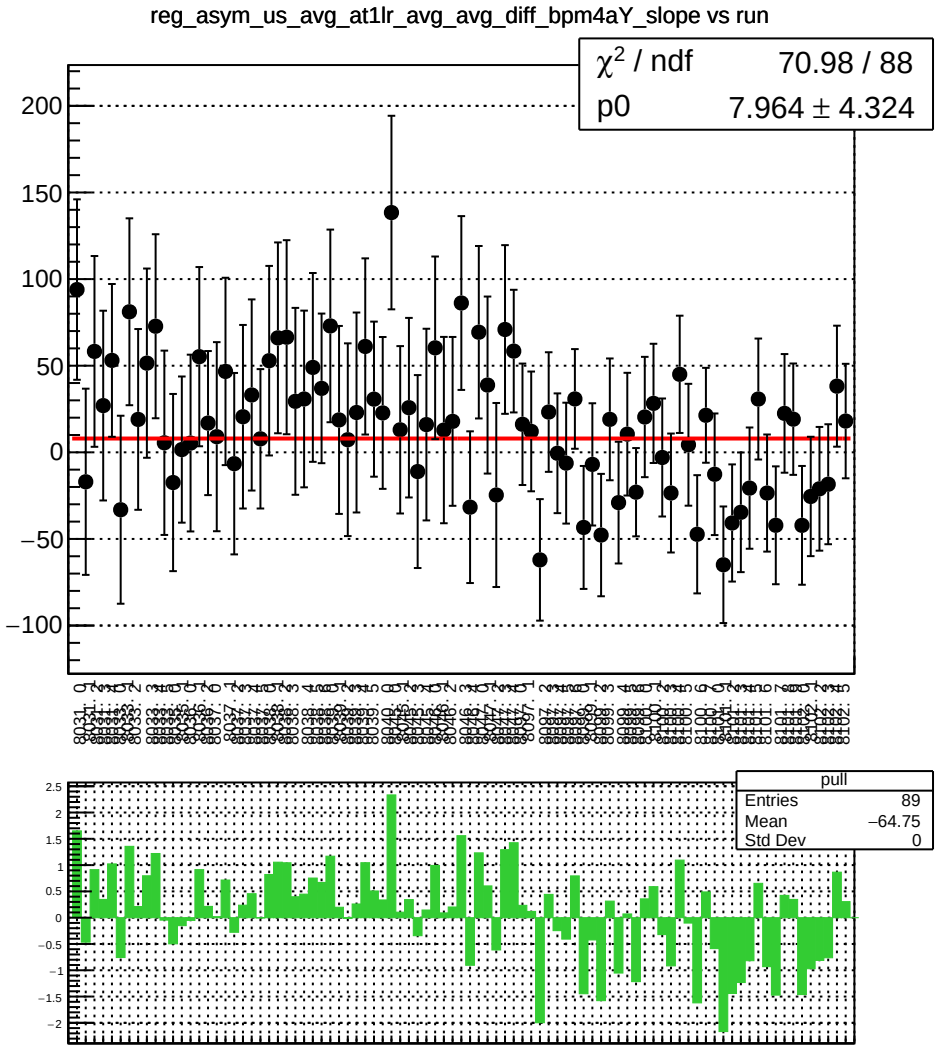

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 27.27 / 88
p0 −199.2 ± 5.315
−100
−150
−200
−250
−300
pull
Entries 89
Mean −282.5
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean −0.03614
Std Dev 0.5524
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

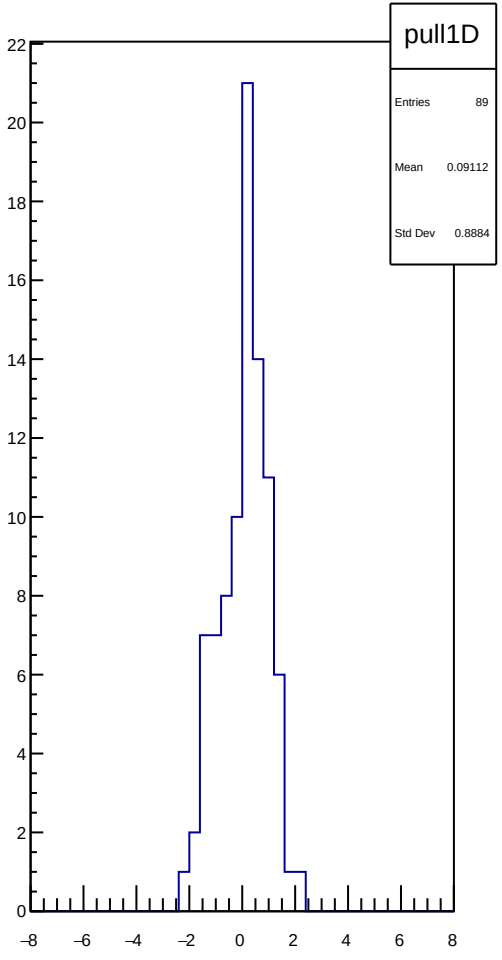

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.233 / 88
p0 6.109 ± 8.851
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −283.8
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 89
Mean 0.003996
Std Dev 0.2425
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

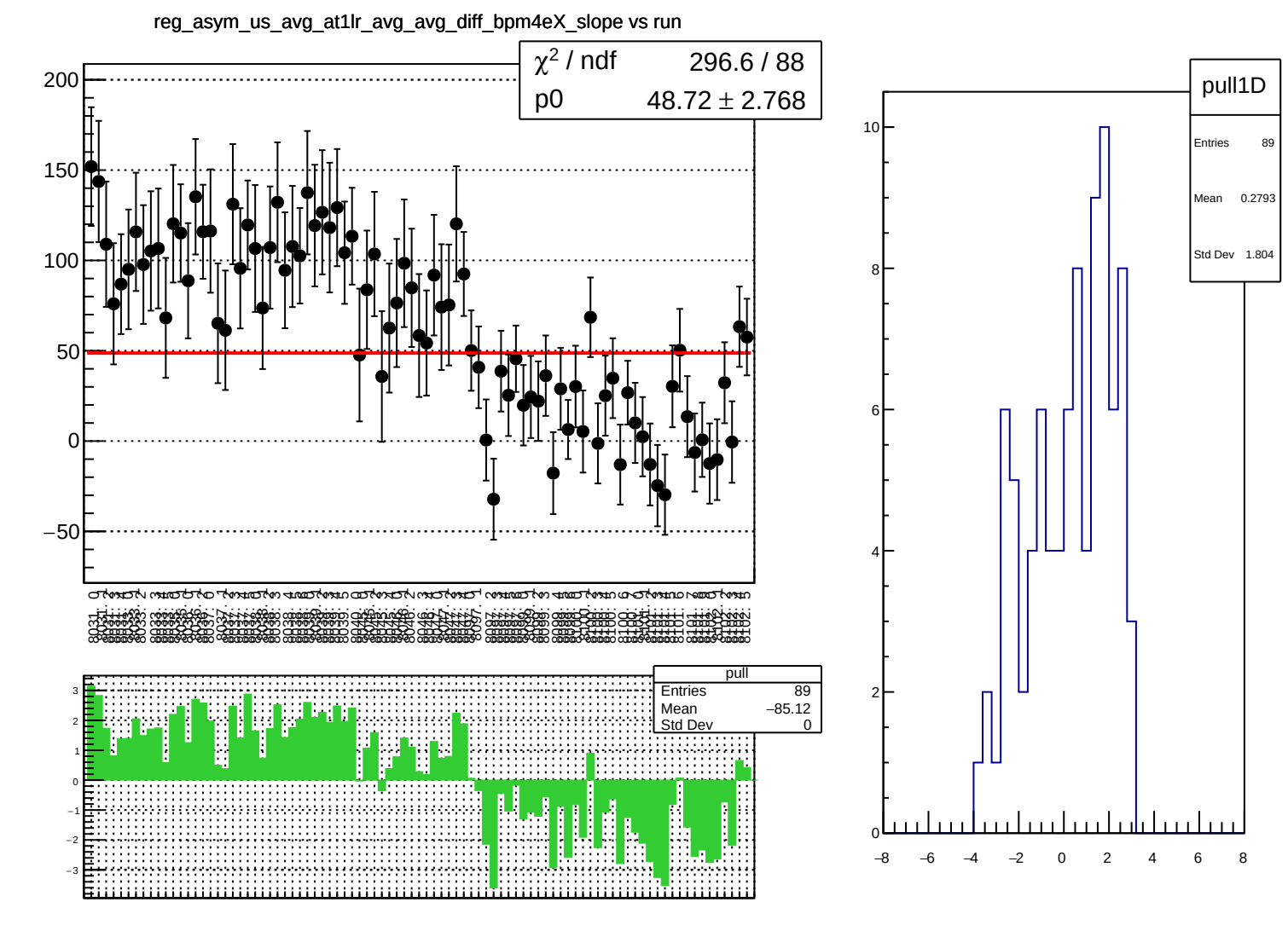

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 1076 / 88
p0 117.8 ± 0.4134
150
140
130
120
110
100
pull
Entries 89
Mean −24.98
Std Dev 0
6
4
2
0
−2
−4
pull1D
Entries 89
Mean 1.058
Std Dev 3.312
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

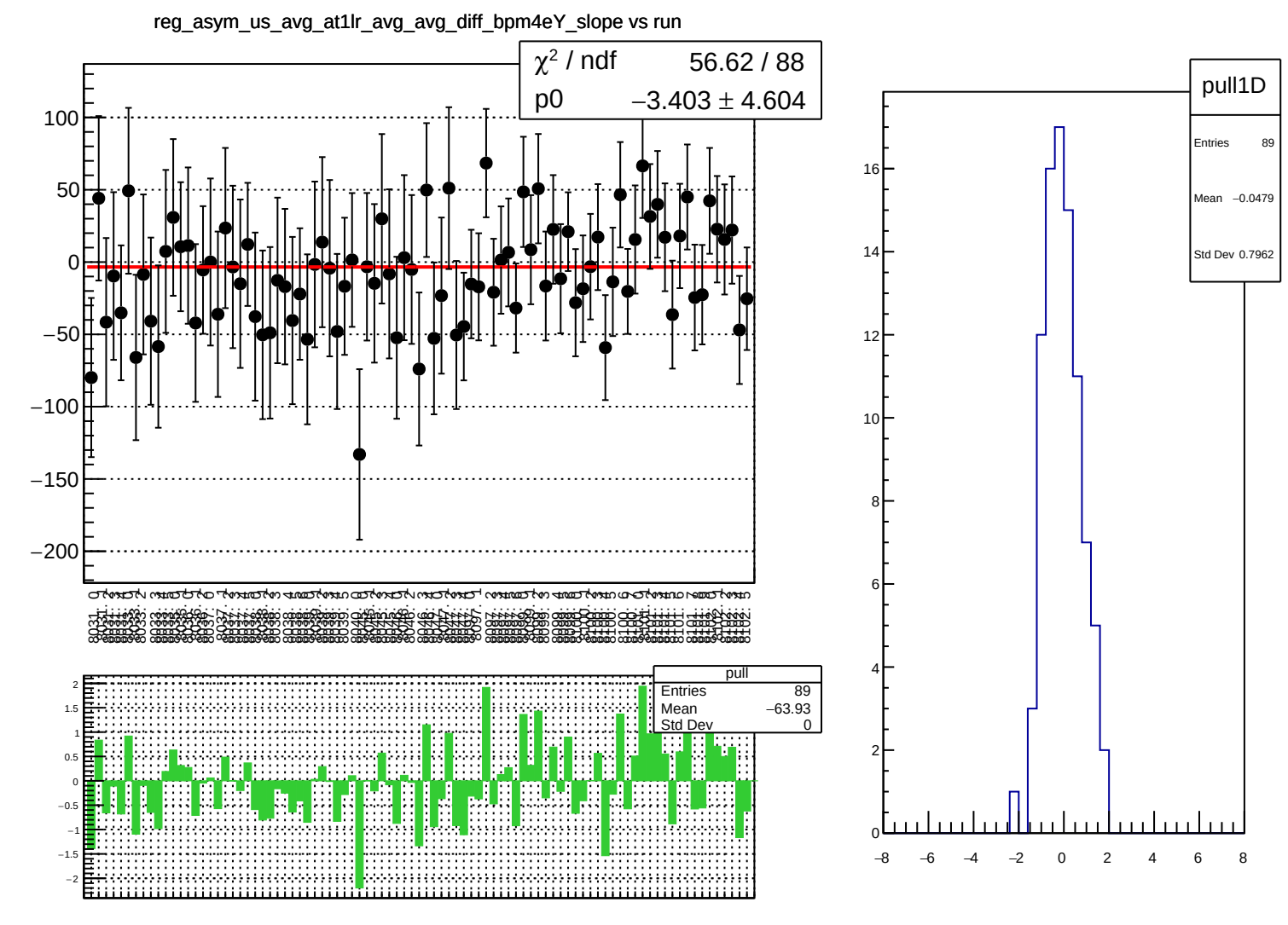

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 373.9 / 88
p0 −81.08 ± 2.699
pull
Entries 89
Mean −210.2
Std Dev 0

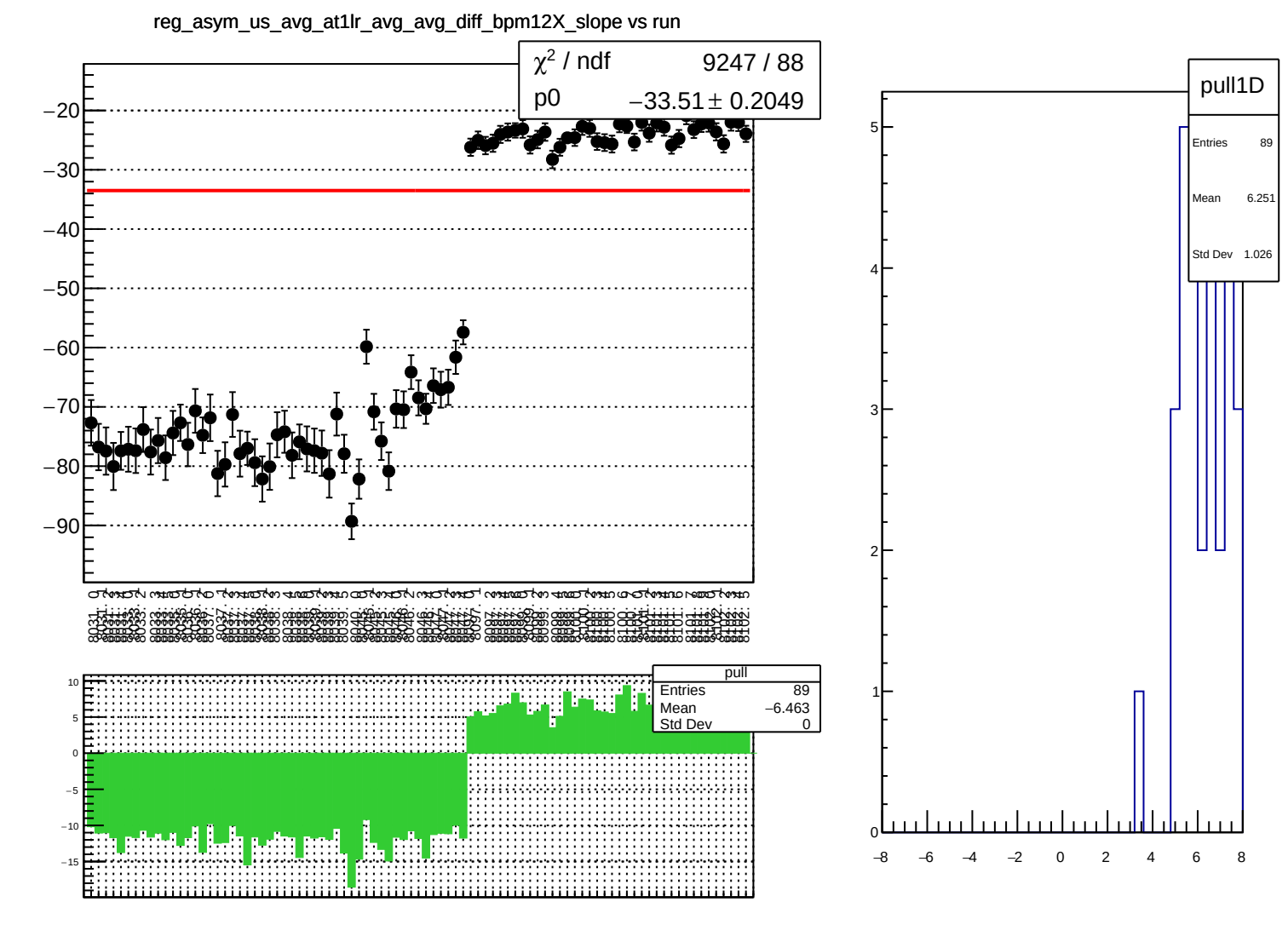

pull1D
Entries 89
Mean −0.1675
Std Dev 2.043

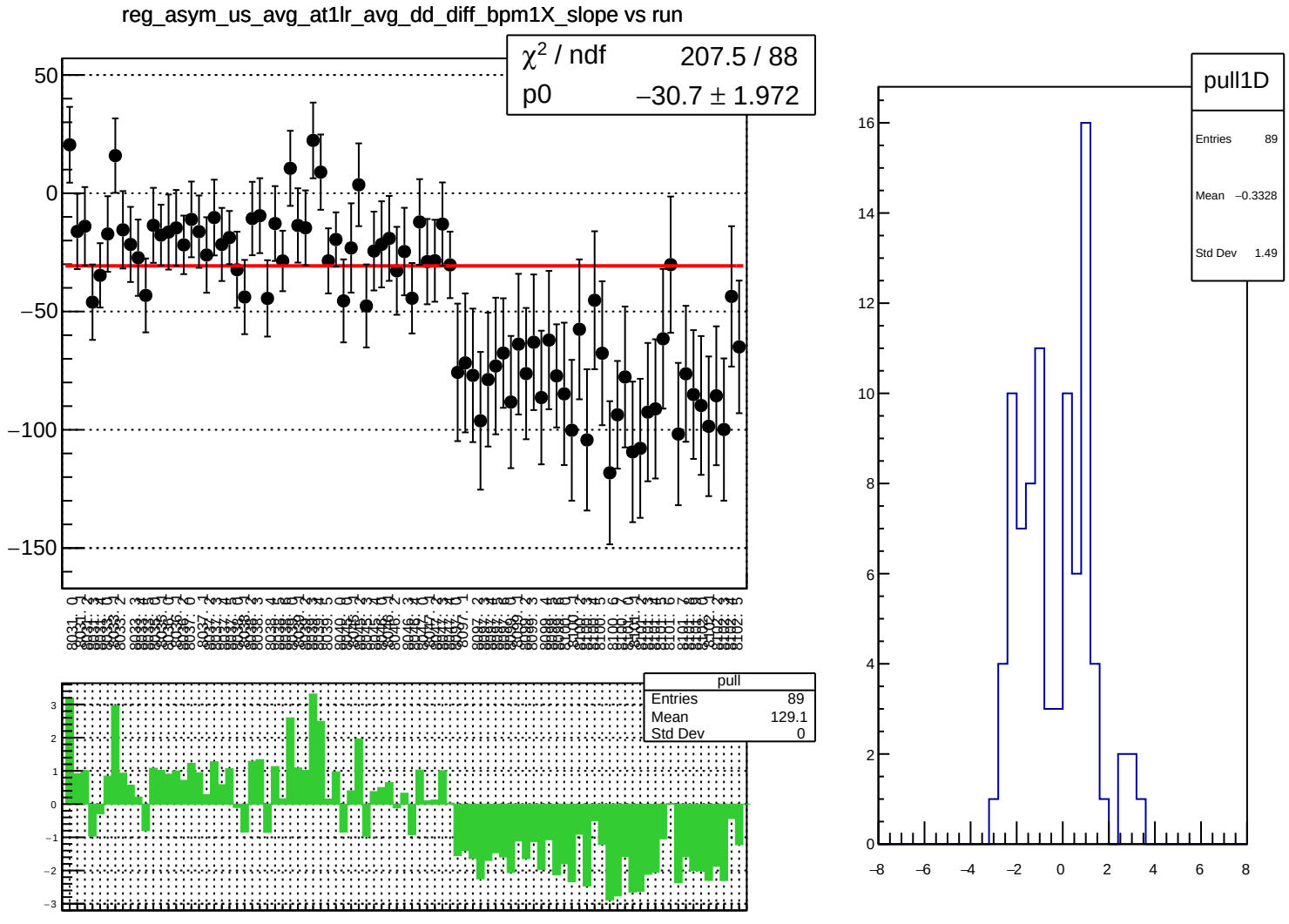

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 70.98 / 88
p0 7.964 ± 4.324
pull
Entries 89
Mean −64.75
Std Dev 0

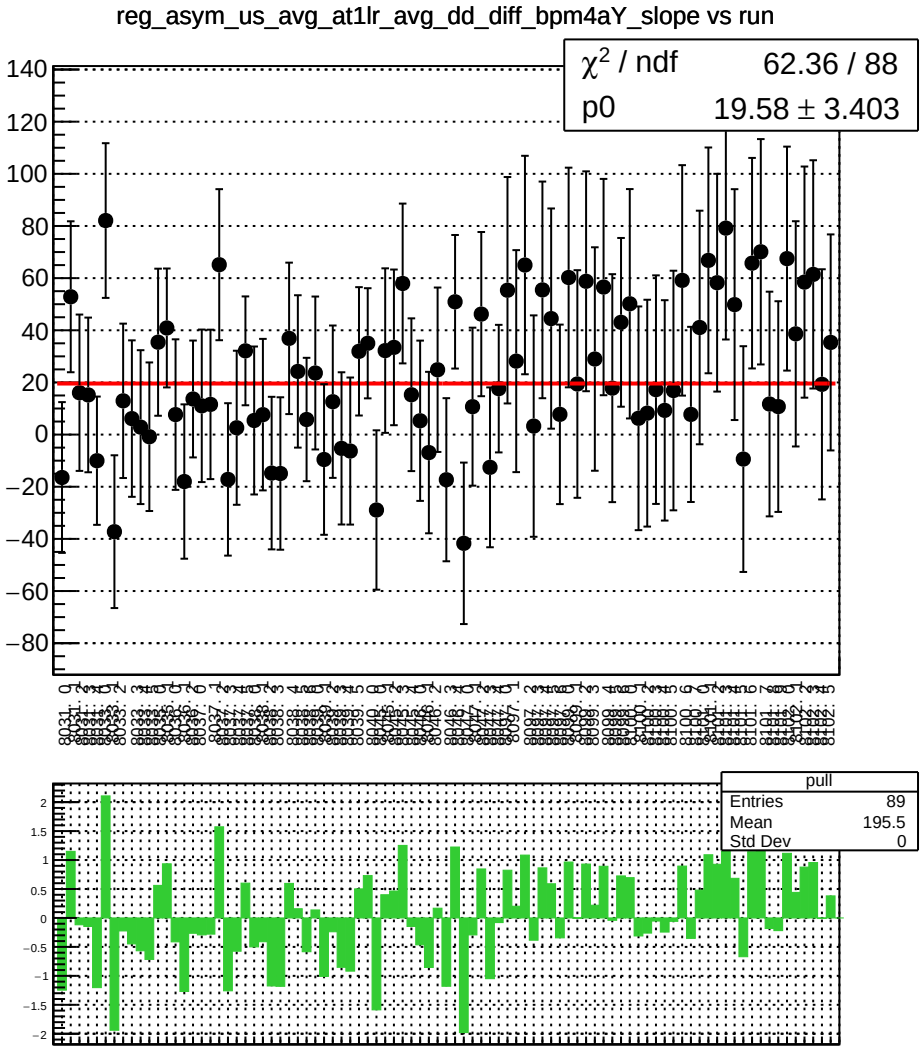

pull1D
Entries 89
Mean 0.09112
Std Dev 0.8884

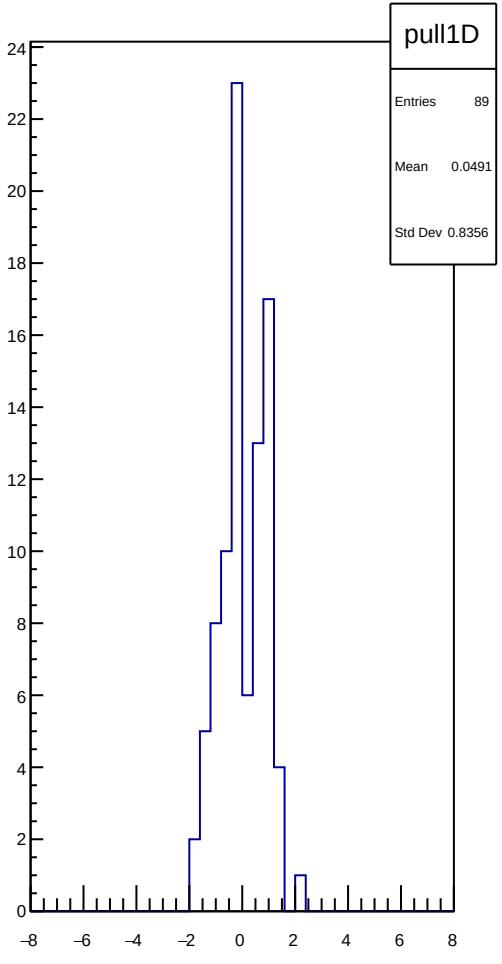

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 296.6 / 88
p0 48.72 ± 2.768
200
150
100
50
0
−50
pull
Entries 89
Mean −85.12
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.2793
Std Dev 1.804
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

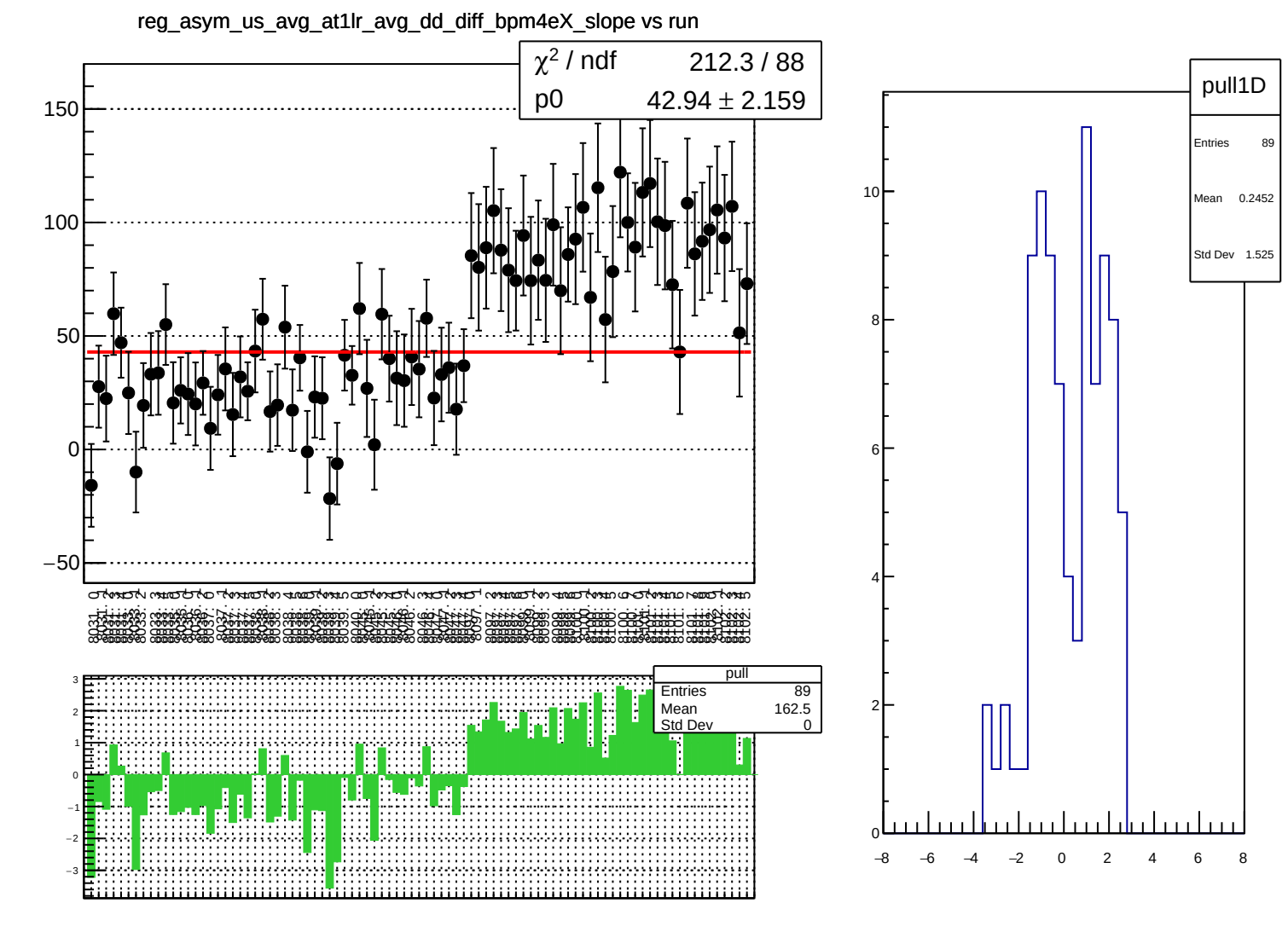

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 56.62 / 88
p0 −3.403 ± 4.604
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean −63.93
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.0479
Std Dev 0.7962
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

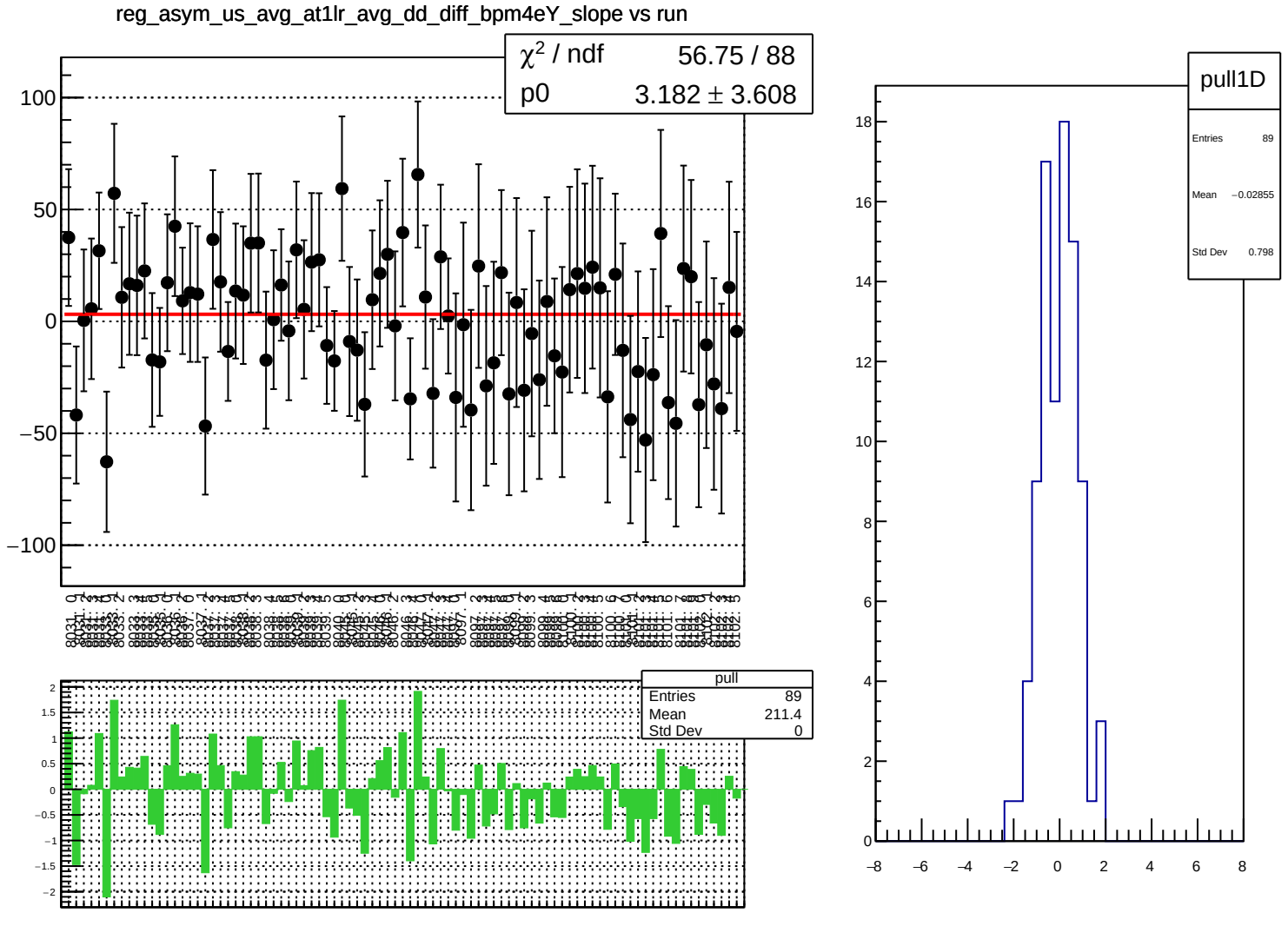

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 9247 / 88
p0 −33.51 ± 0.2049
pull
Entries 89
Mean −6.463
Std Dev 0
pull1D
Entries 89
Mean 6.251
Std Dev 1.026

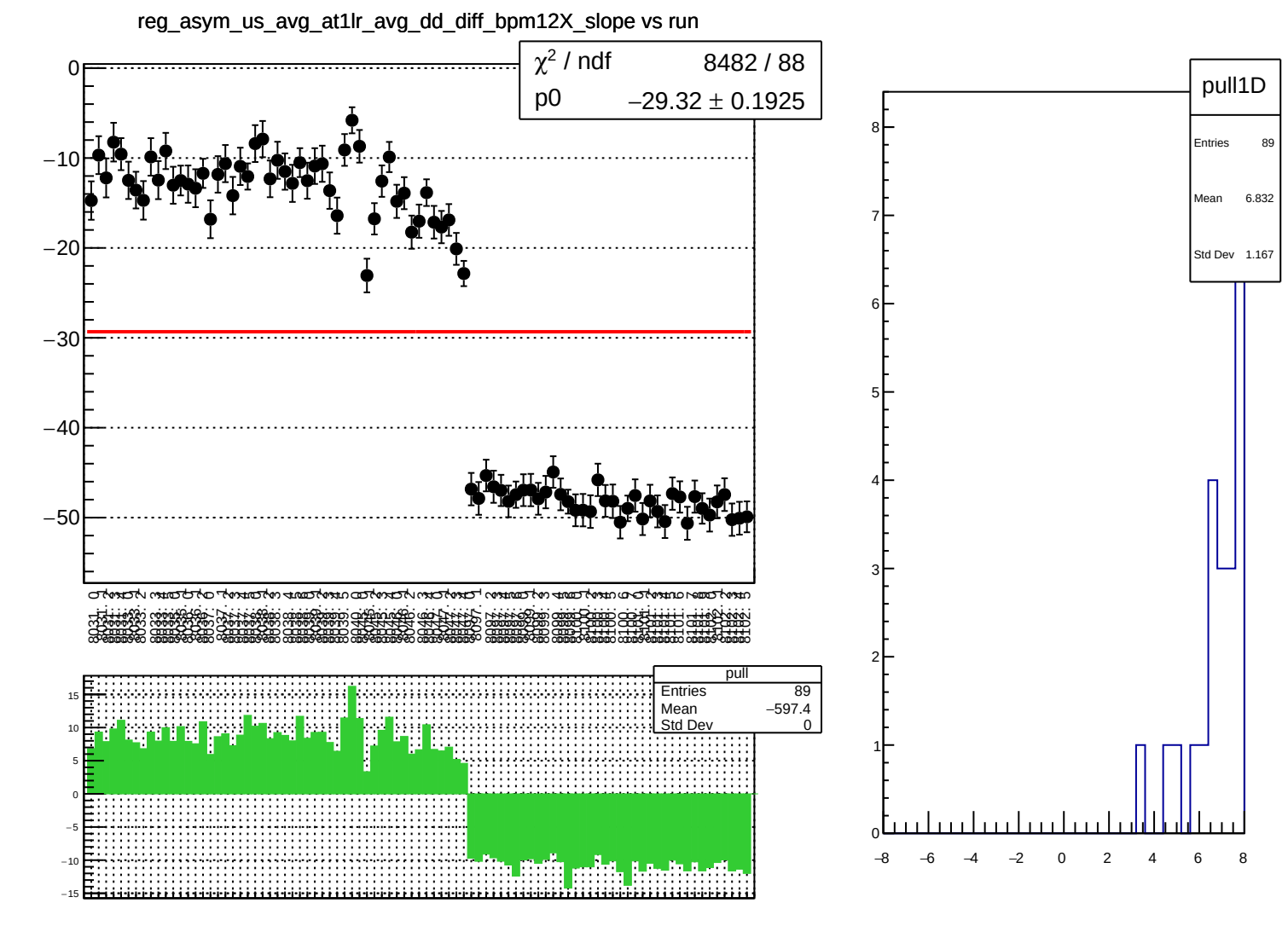

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 207.5 / 88
p0 −30.7 ± 1.972
50
0
−50
−100
−150
pull
Entries 89
Mean 129.1
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.3328
Std Dev 1.49
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

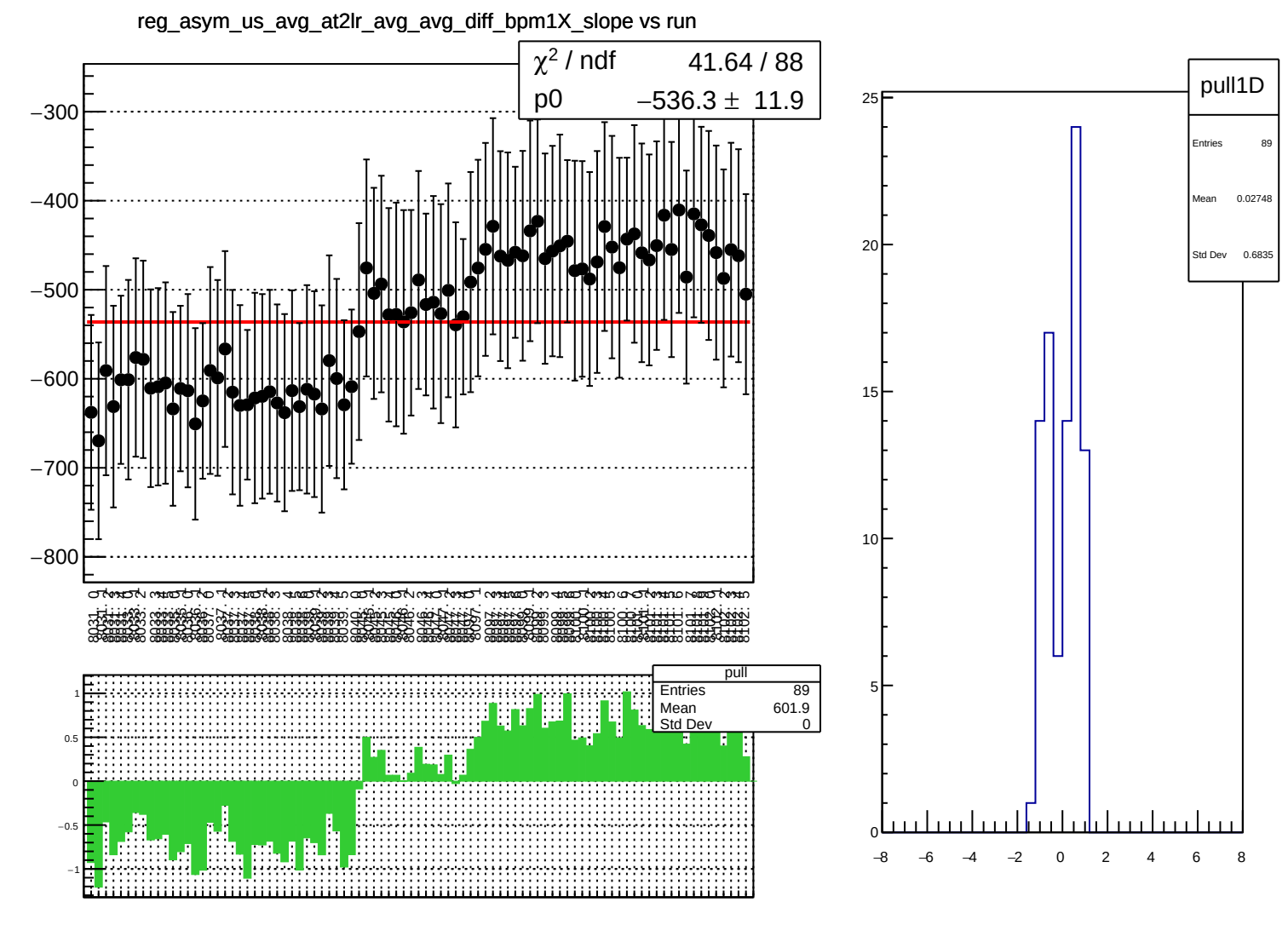

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 62.36 / 88
p0 19.58 ± 3.403
pull
Entries 89
Mean 195.5
Std Dev 0

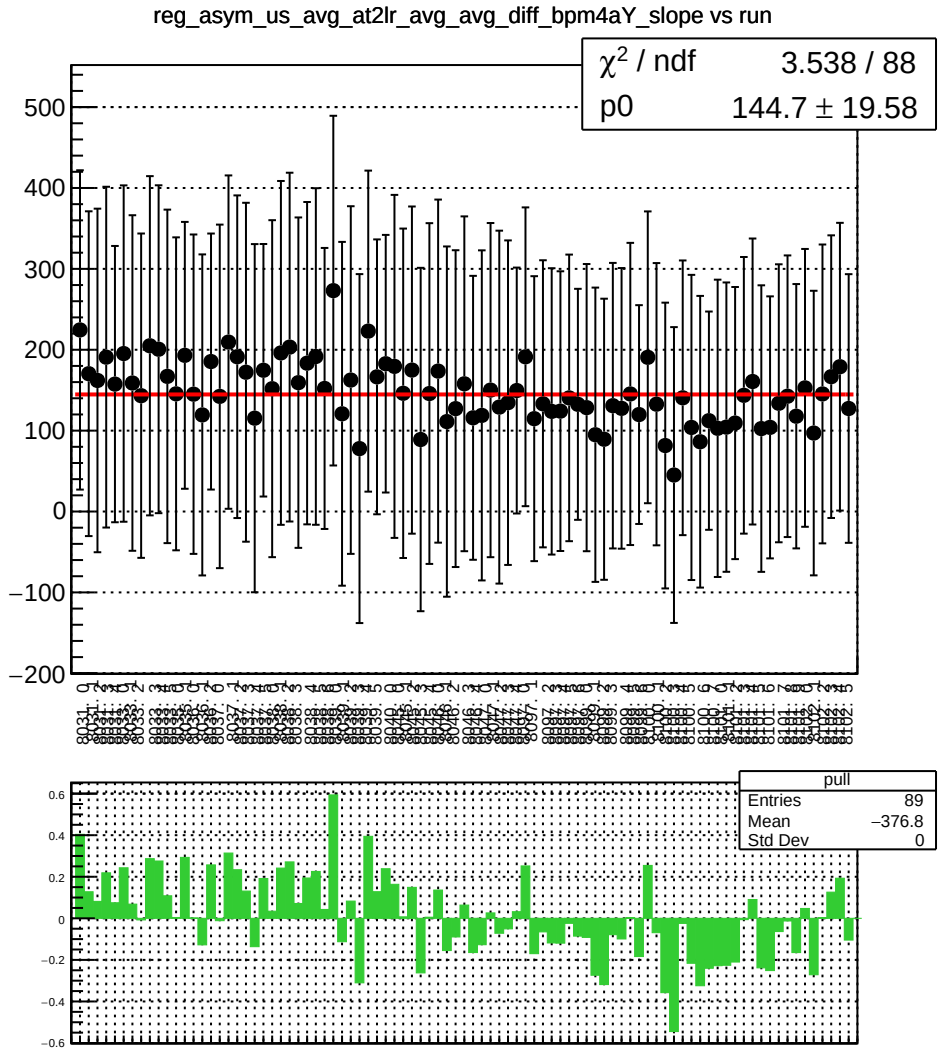

pull1D
Entries 89
Mean 0.0491
Std Dev 0.8356

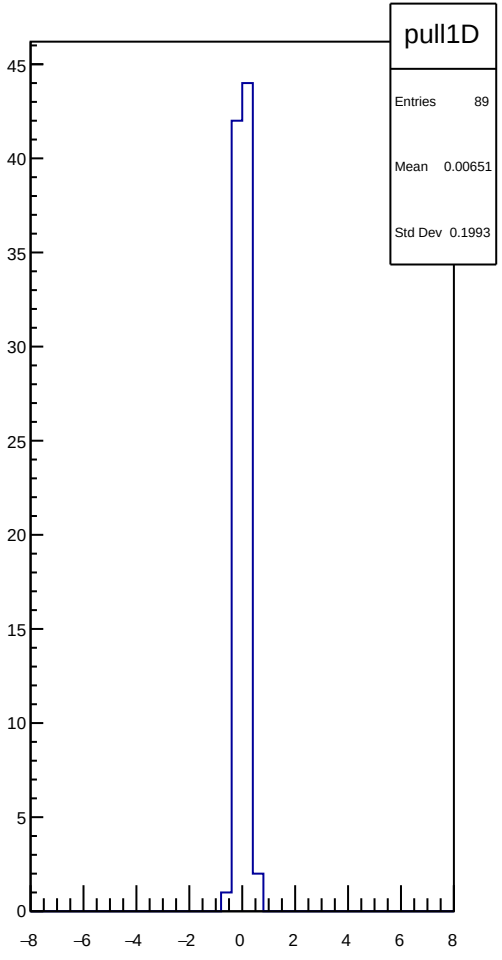

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 212.3 / 88
p0 42.94 ± 2.159
150
100
50
0
−50
pull
Entries 89
Mean 162.5
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.2452
Std Dev 1.525
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

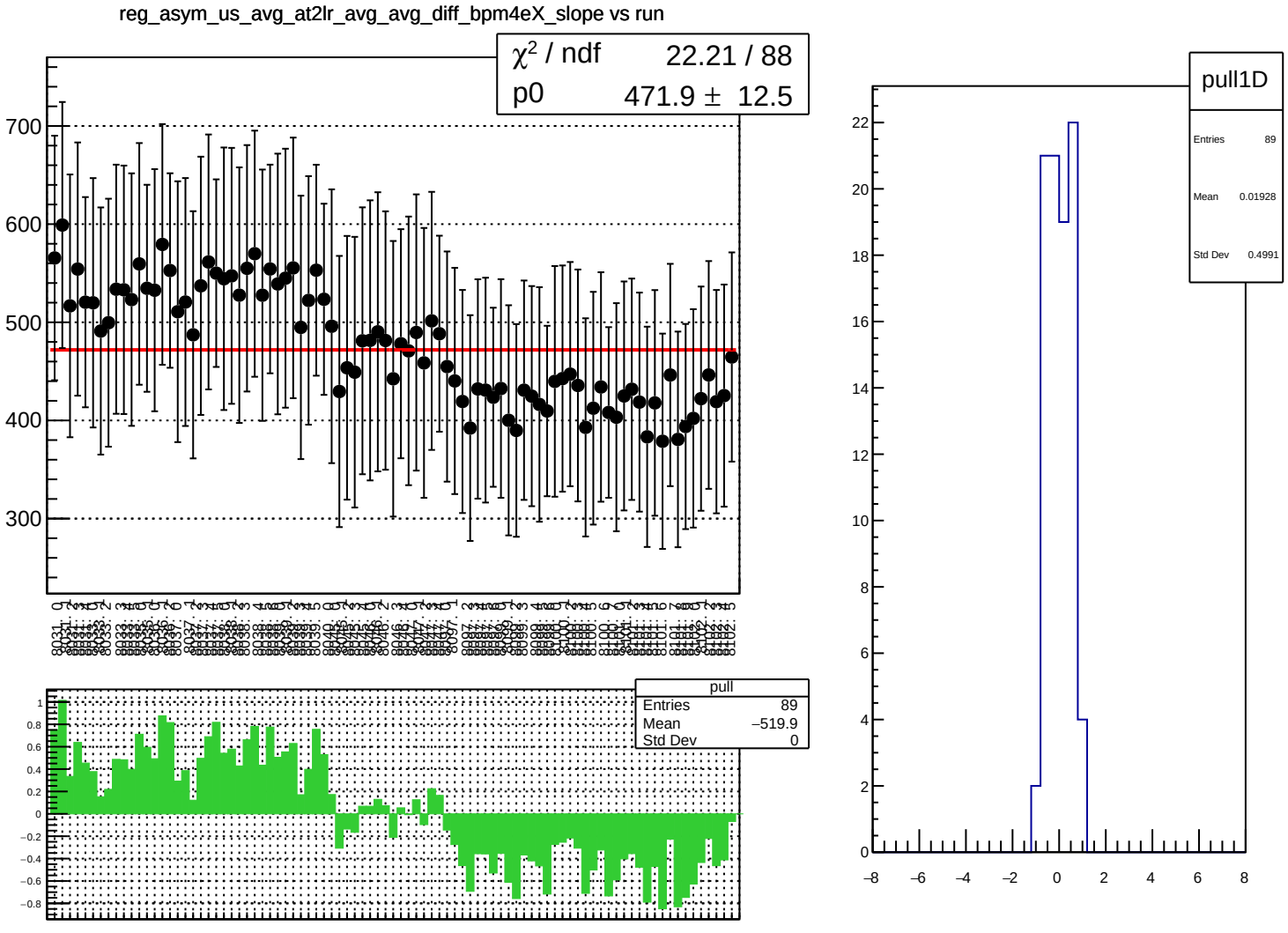

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 56.75 / 88
p0 3.182 ± 3.608
100
50
0
−50
−100
pull
Entries 89
Mean 211.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.02855
Std Dev 0.798
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

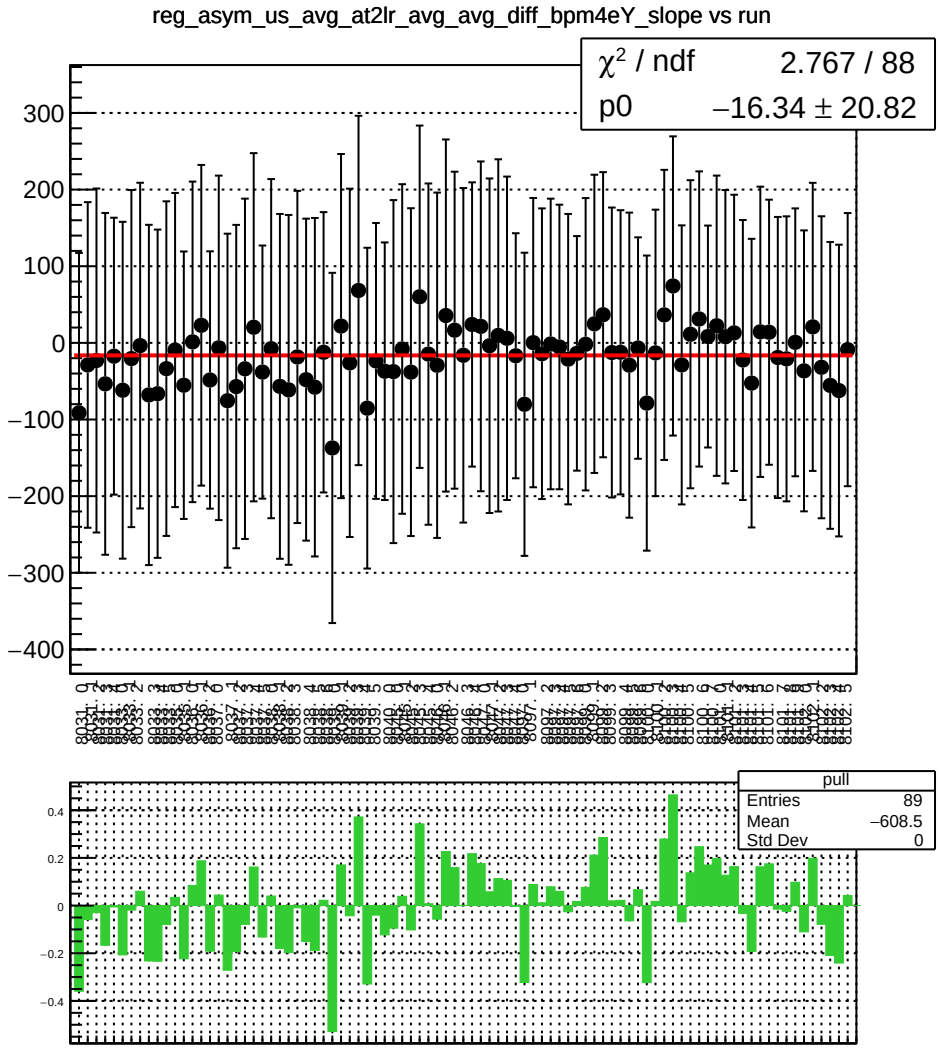

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 8482 / 88
p0 −29.32 ± 0.1925
pull
Entries 89
Mean −597.4
Std Dev 0
pull1D
Entries 89
Mean 6.832
Std Dev 1.167

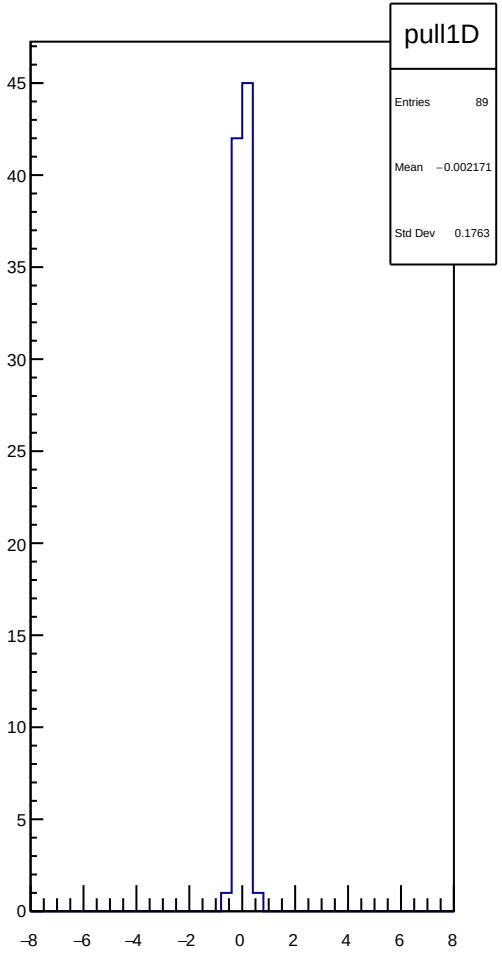

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 41.64 / 88
p0 −536.3 ± 11.9
−300
−400
−500
−600
−700
−800
pull
Entries 89
Mean 601.9
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean 0.02748
Std Dev 0.6835
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

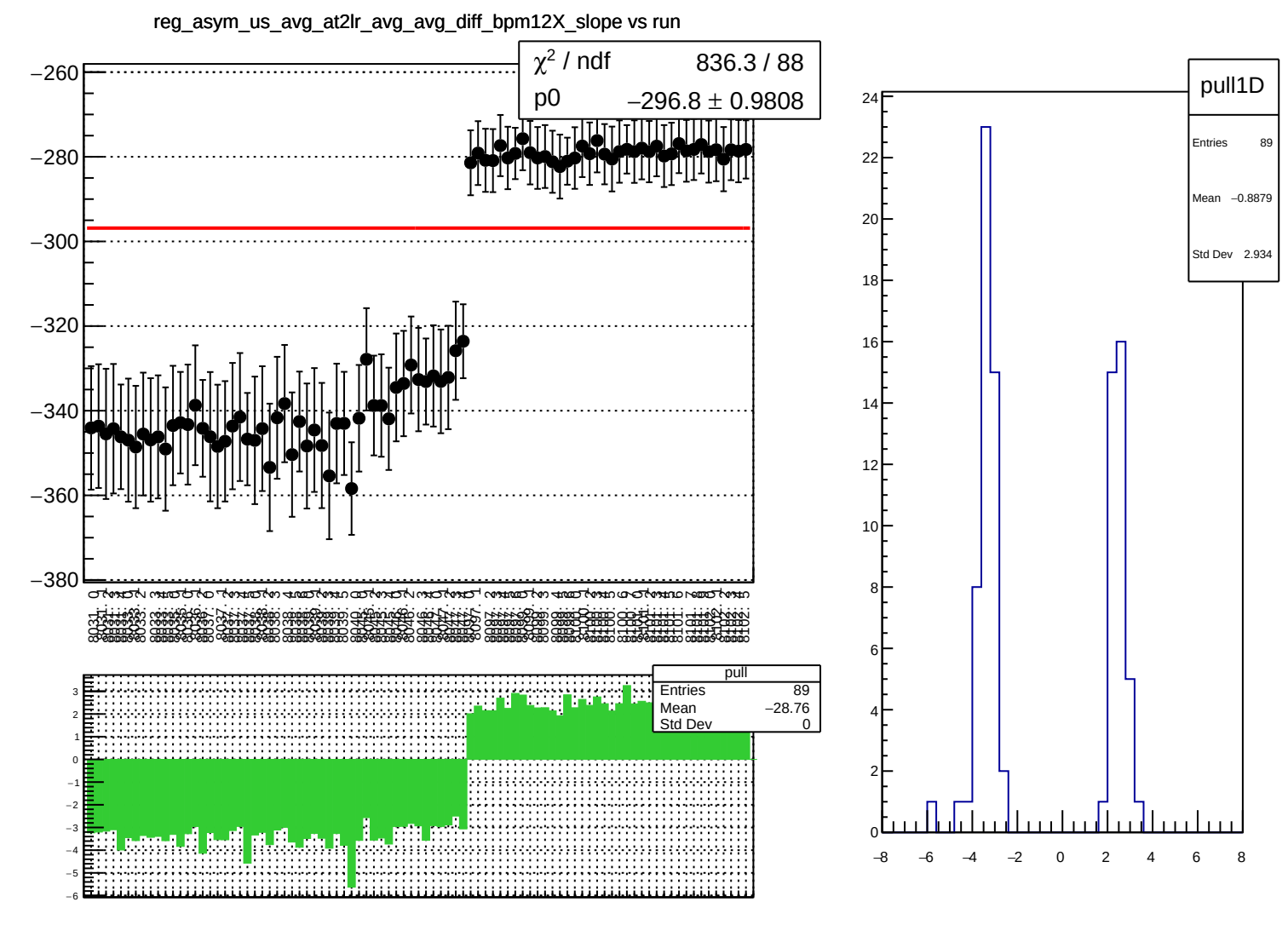

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.538 / 88
p0 144.7 ± 19.58
pull
Entries 89
Mean −376.8
Std Dev 0

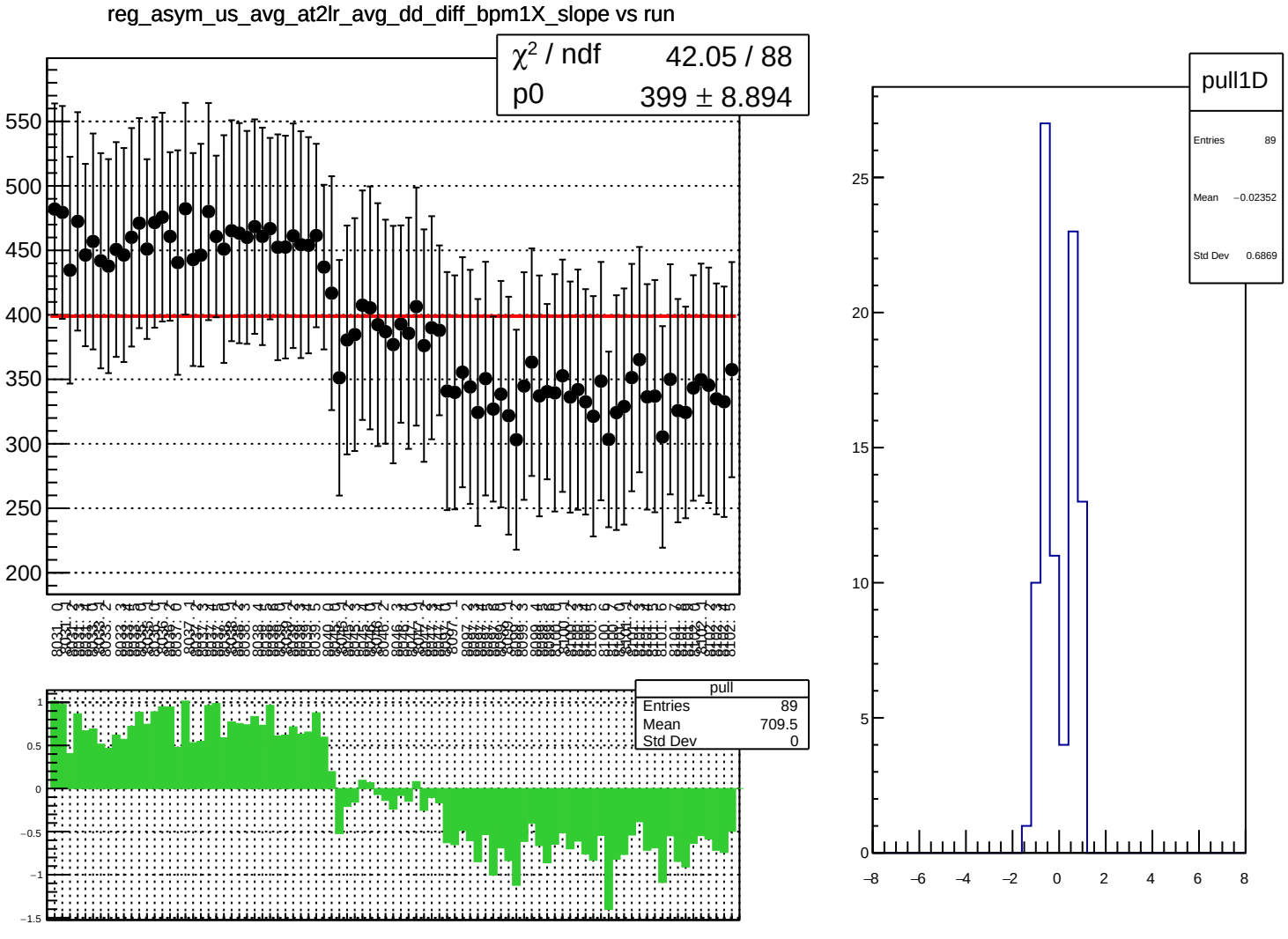

pull1D
Entries 89
Mean 0.00651
Std Dev 0.1993

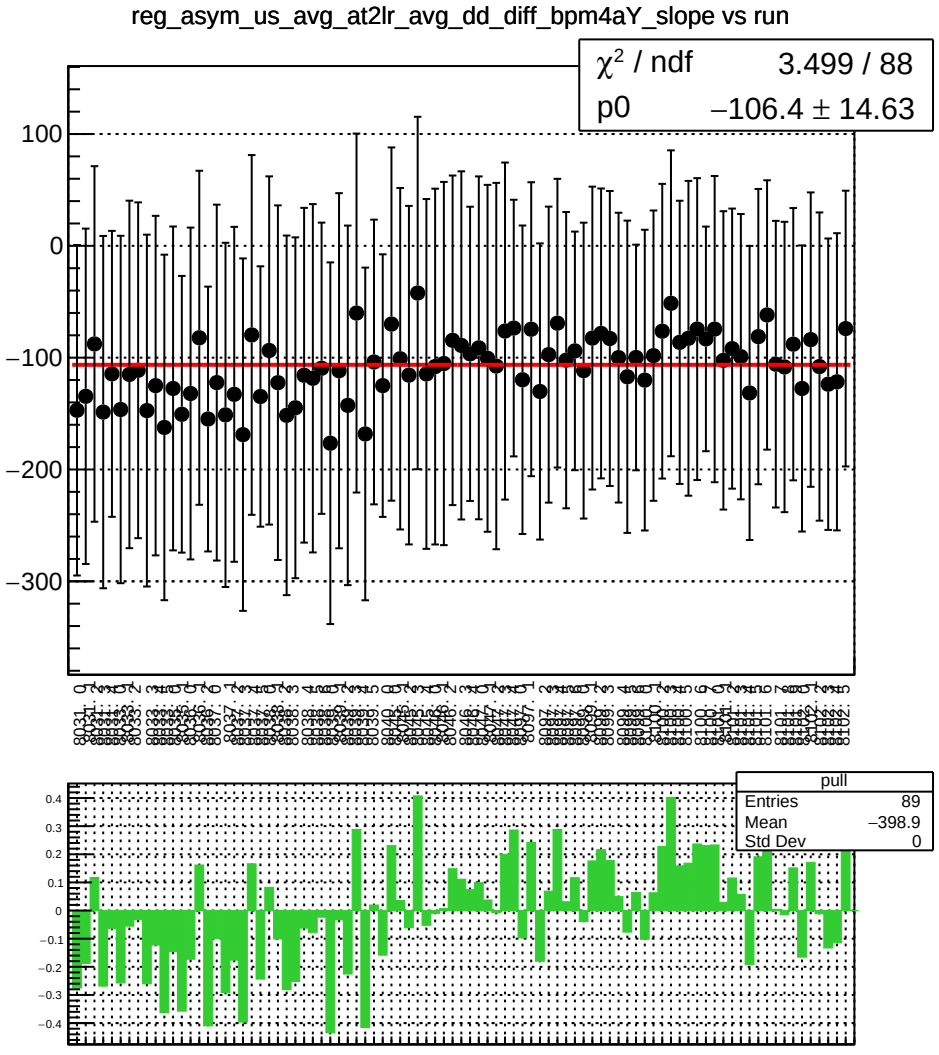

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 22.21 / 88
p0 471.9 ± 12.5
700
600
500
400
300
pull
Entries 89
Mean –519.9
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–0.2
–0.4
–0.6
–0.8
pull1D
Entries 89
Mean 0.01928
Std Dev 0.4991
22
20
18
16
14
12
10
8
6
4
2
0
–8
–6
–4
–2
0
2
4
6
8

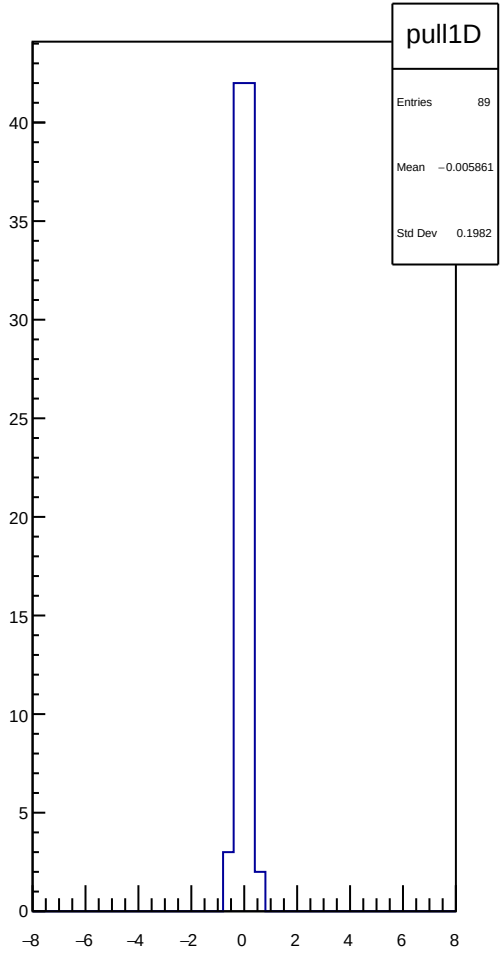

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.767 / 88
p0 −16.34 ± 20.82
pull
Entries 89
Mean −608.5
Std Dev 0

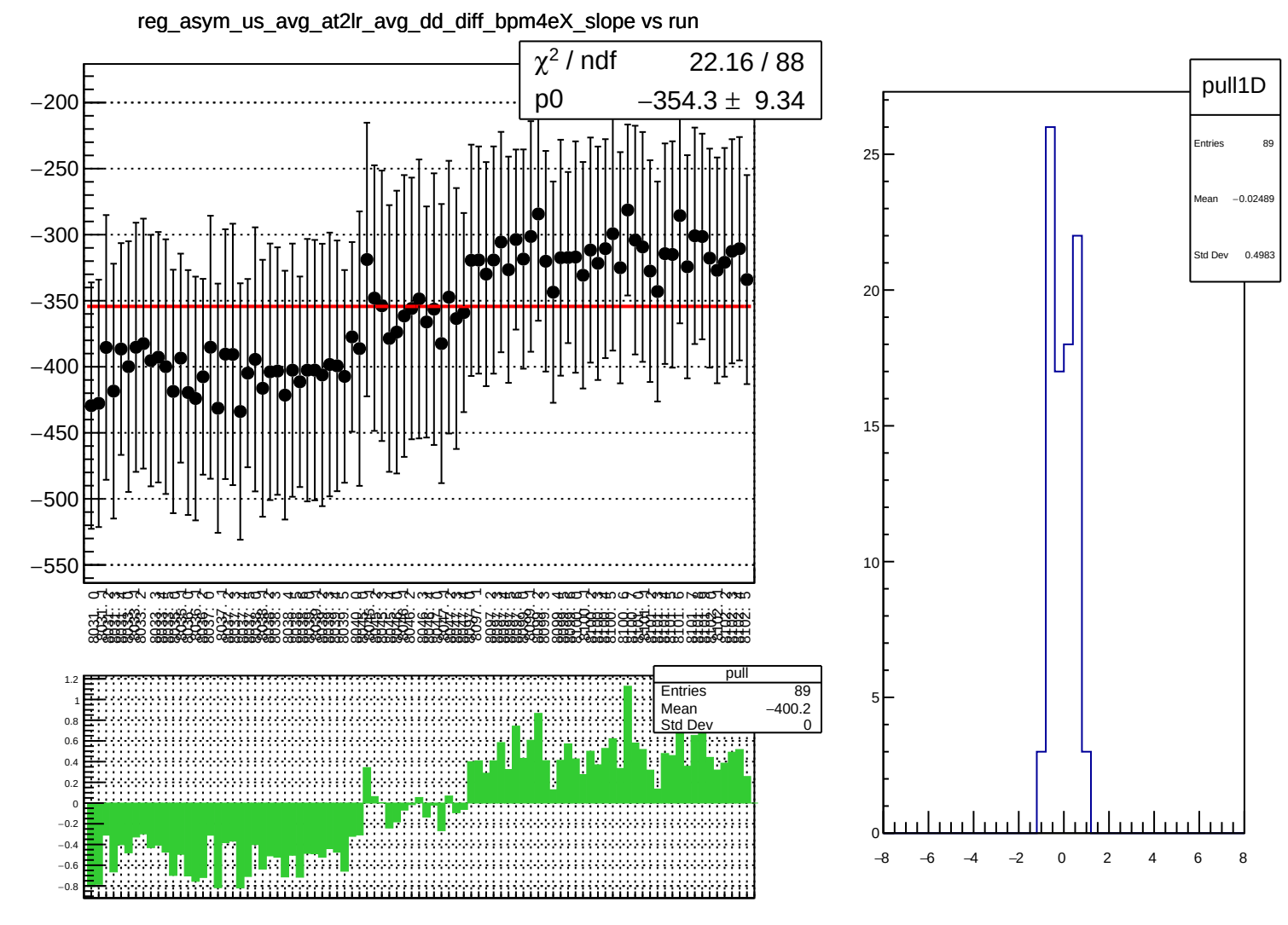

pull1D
Entries 89
Mean −0.002171
Std Dev 0.1763

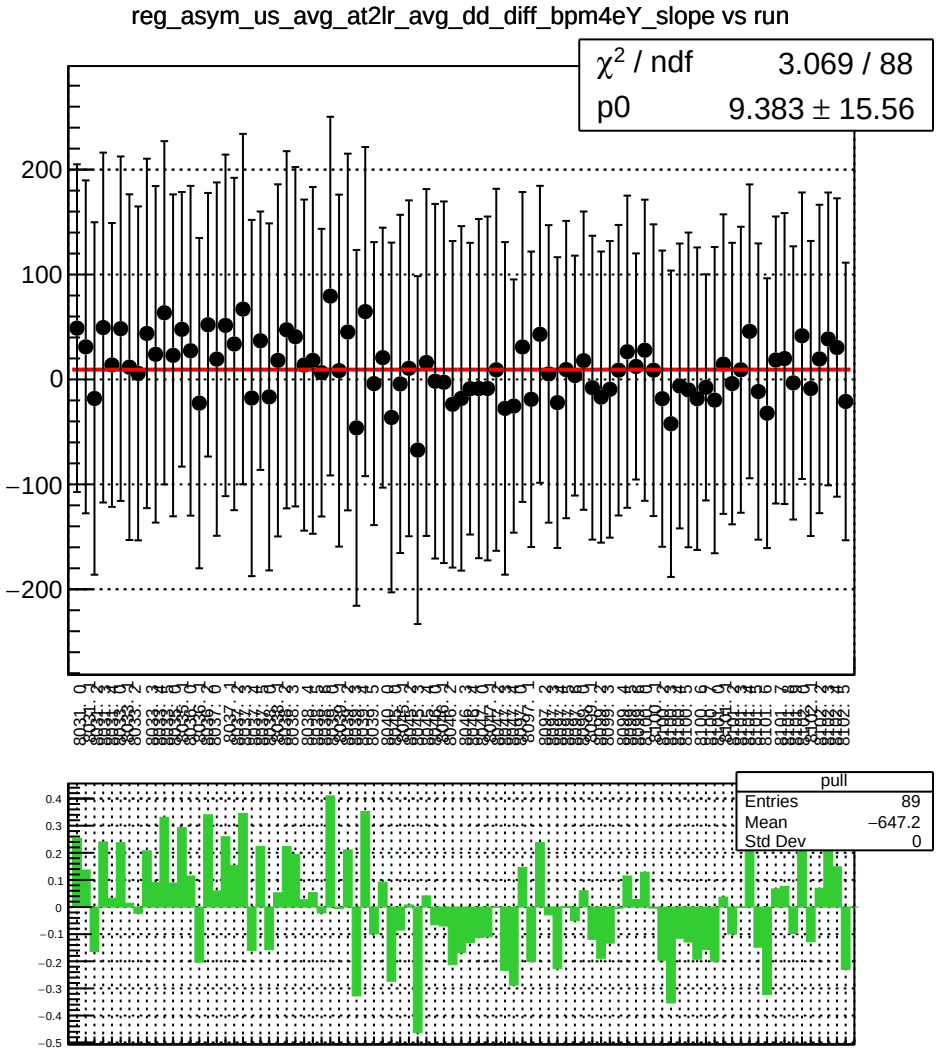

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 836.3 / 88
p0 −296.8 ± 0.9808
pull
Entries 89
Mean −28.76
Std Dev 0
pull1D
Entries 89
Mean −0.8879
Std Dev 2.934

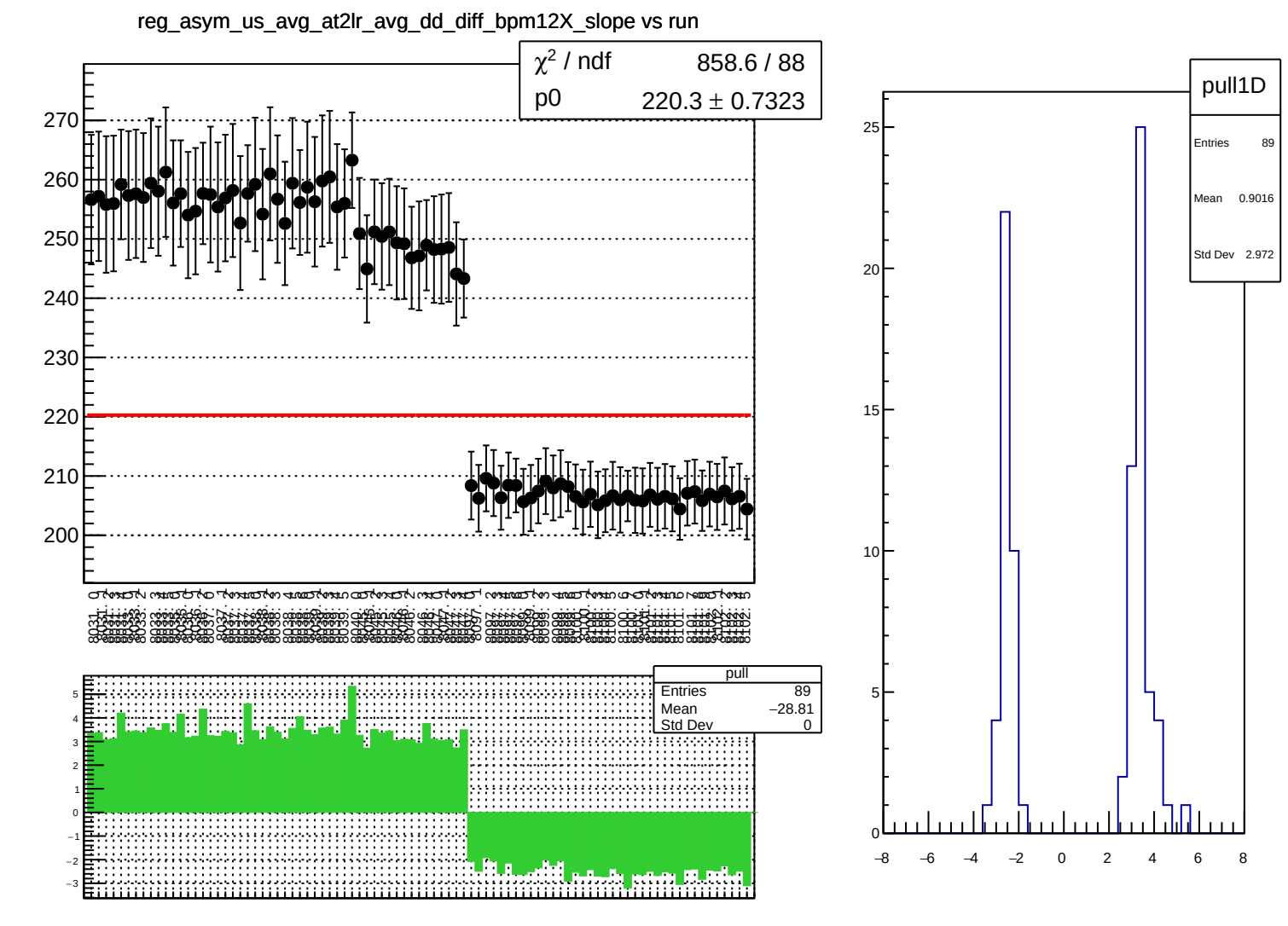

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 42.05 / 88
p0 399 ± 8.894
550
500
450
400
350
300
250
200
pull
Entries 89
Mean 709.5
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 89
Mean −0.02352
Std Dev 0.6869
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

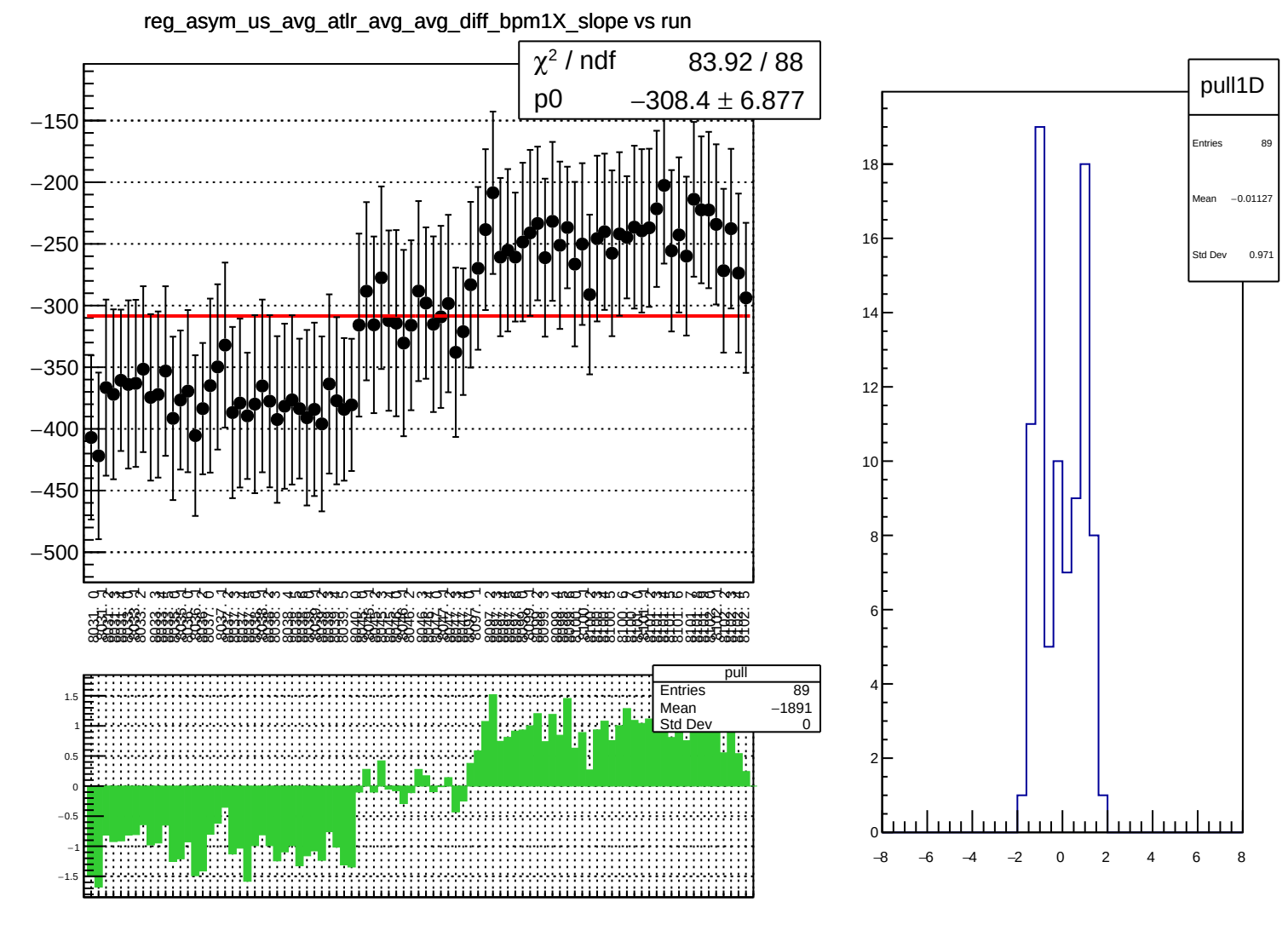

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.499 / 88
p0 −106.4 ± 14.63
100
0
−100
−200
−300
pull
Entries 89
Mean −398.9
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

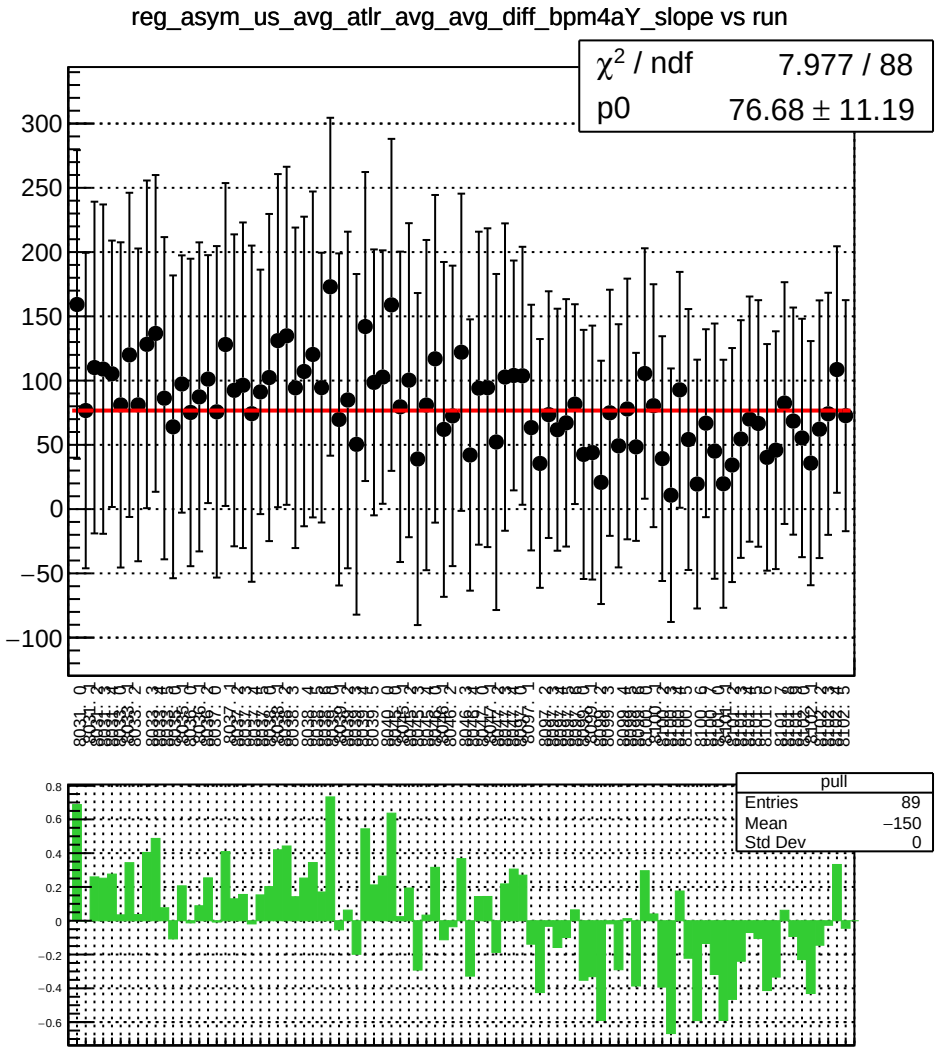

pull1D
Entries 89
Mean −0.005861
Std Dev 0.1982
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

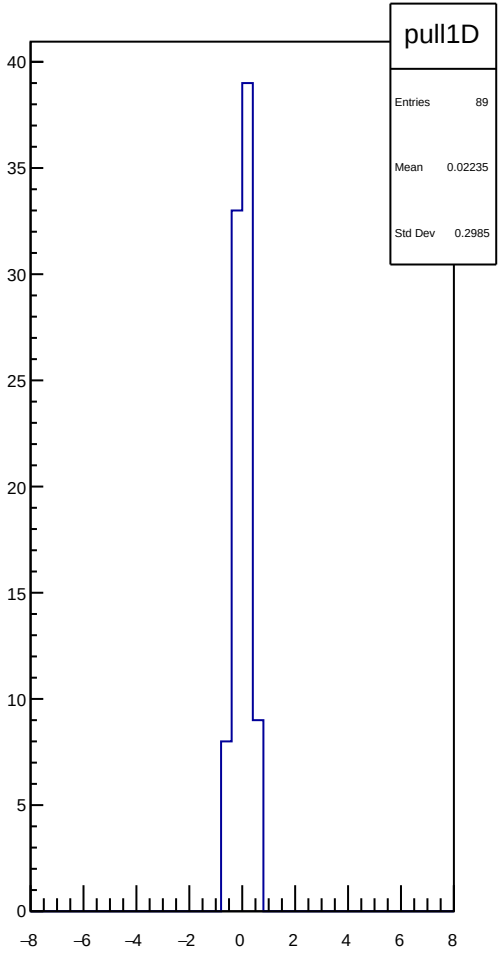

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 22.16 / 88
p0 −354.3 ± 9.34
−200
−250
−300
−350
−400
−450
−500
−550
pull
Entries 89
Mean −400.2
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 89
Mean −0.02489
Std Dev 0.4983
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

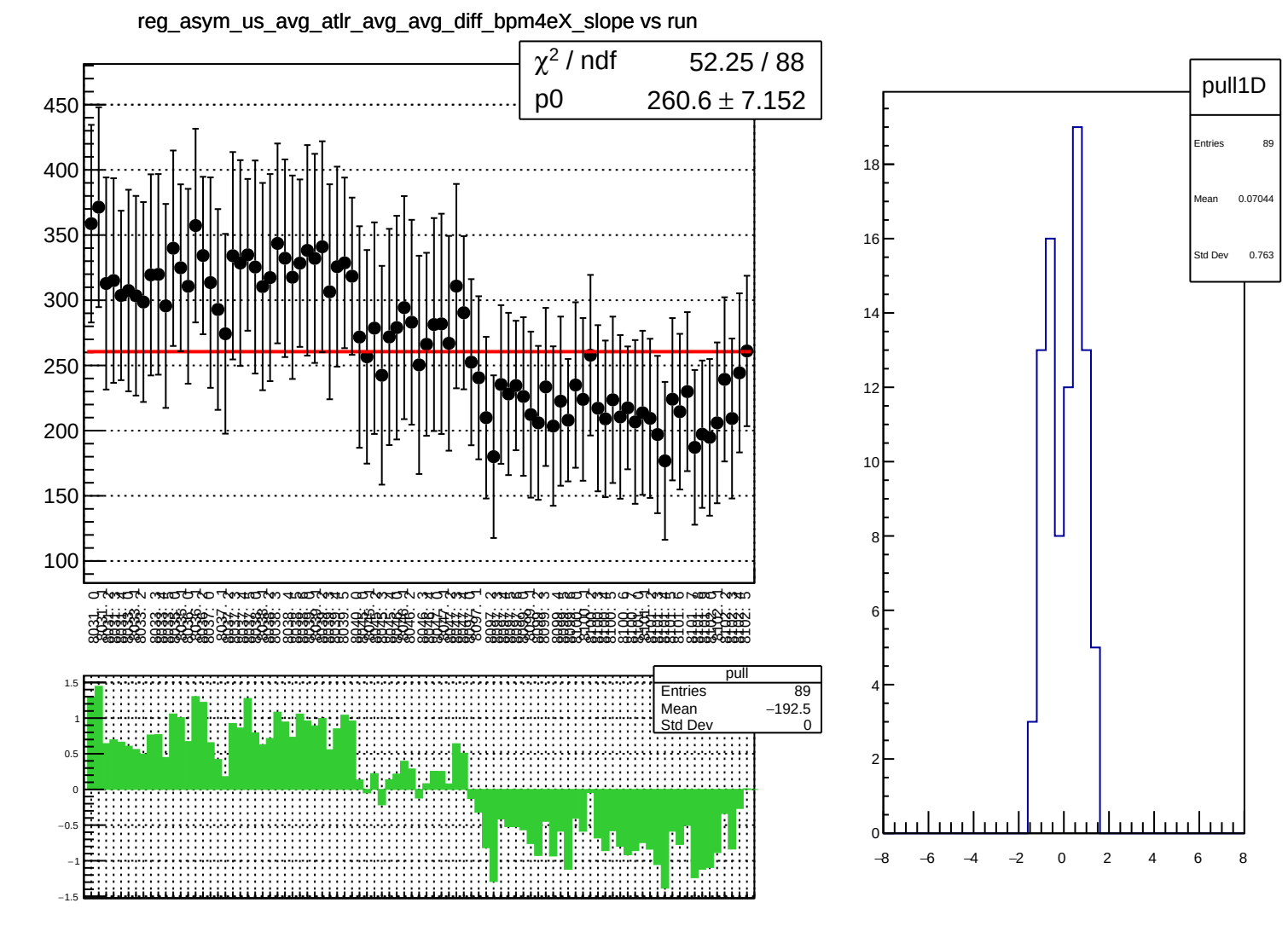

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.069 / 88
p0 9.383 ± 15.56
200
100
0
−100
−200
pull
Entries 89
Mean −647.2
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull1D
Entries 89
Mean 0.002301
Std Dev 0.1857
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

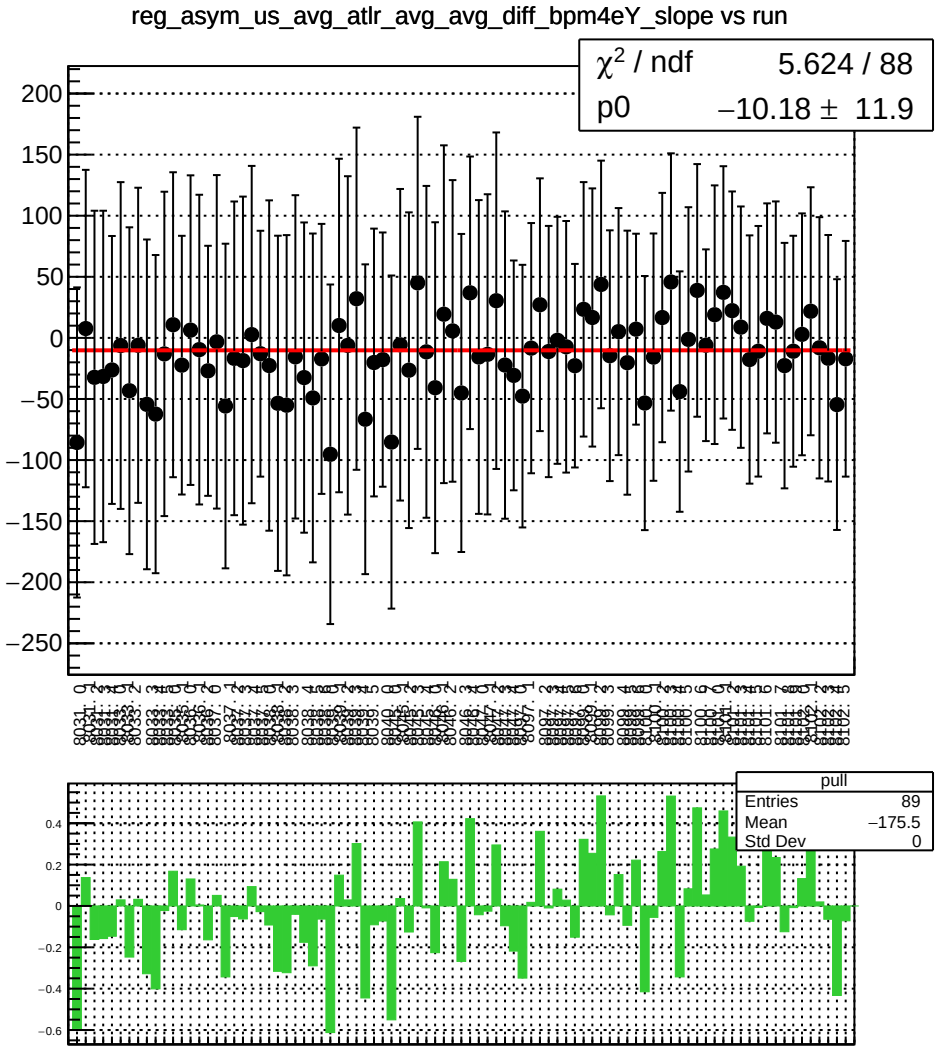

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 858.6 / 88
p0 220.3 ± 0.7323
270
260
250
240
230
220
210
200
pull
Entries 89
Mean −28.81
Std Dev 0
5
4
3
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.9016
Std Dev 2.972
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

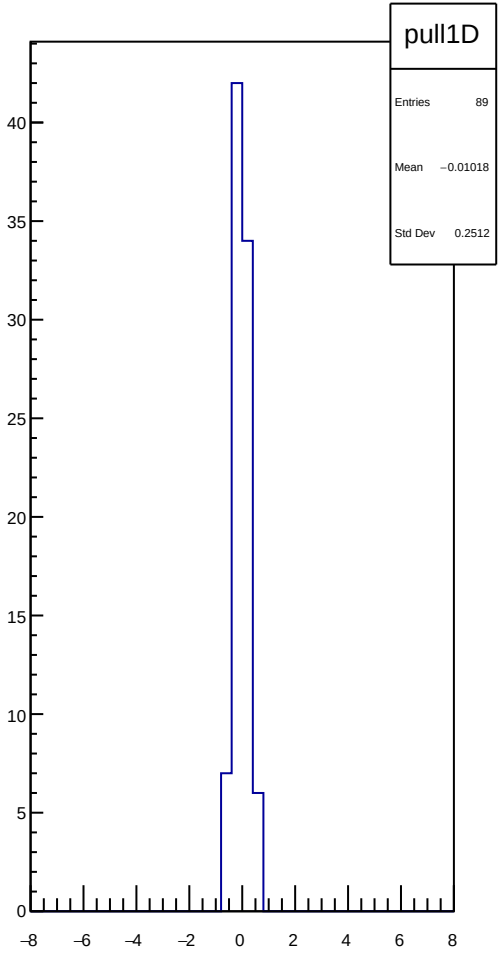

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 83.92 / 88
p0 −308.4 ± 6.877
pull
Entries 89
Mean −1891
Std Dev 0
pull1D
Entries 89
Mean −0.01127
Std Dev 0.971

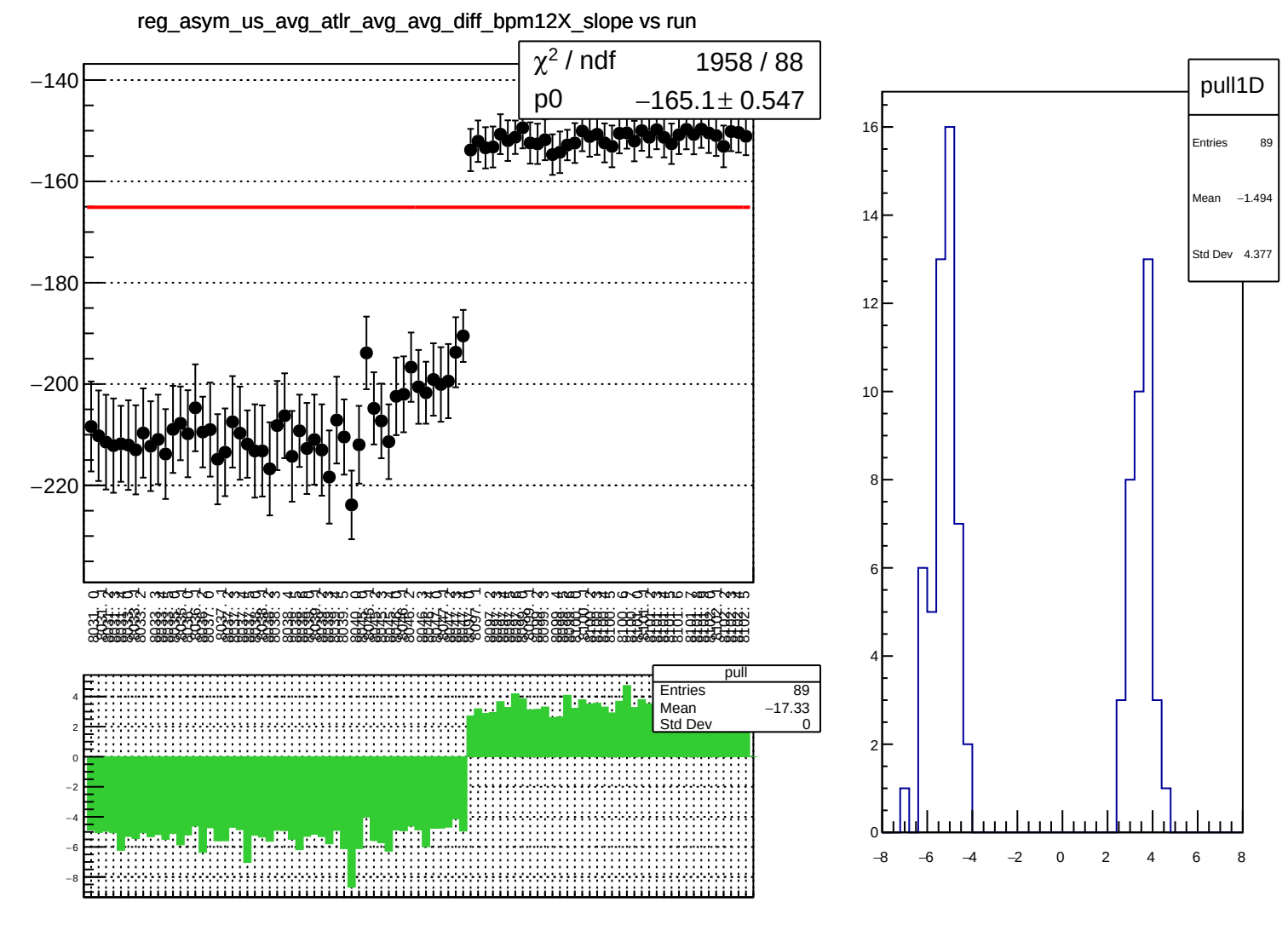

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.977 / 88
p0 76.68 ± 11.19
pull
Entries 89
Mean −150
Std Dev 0

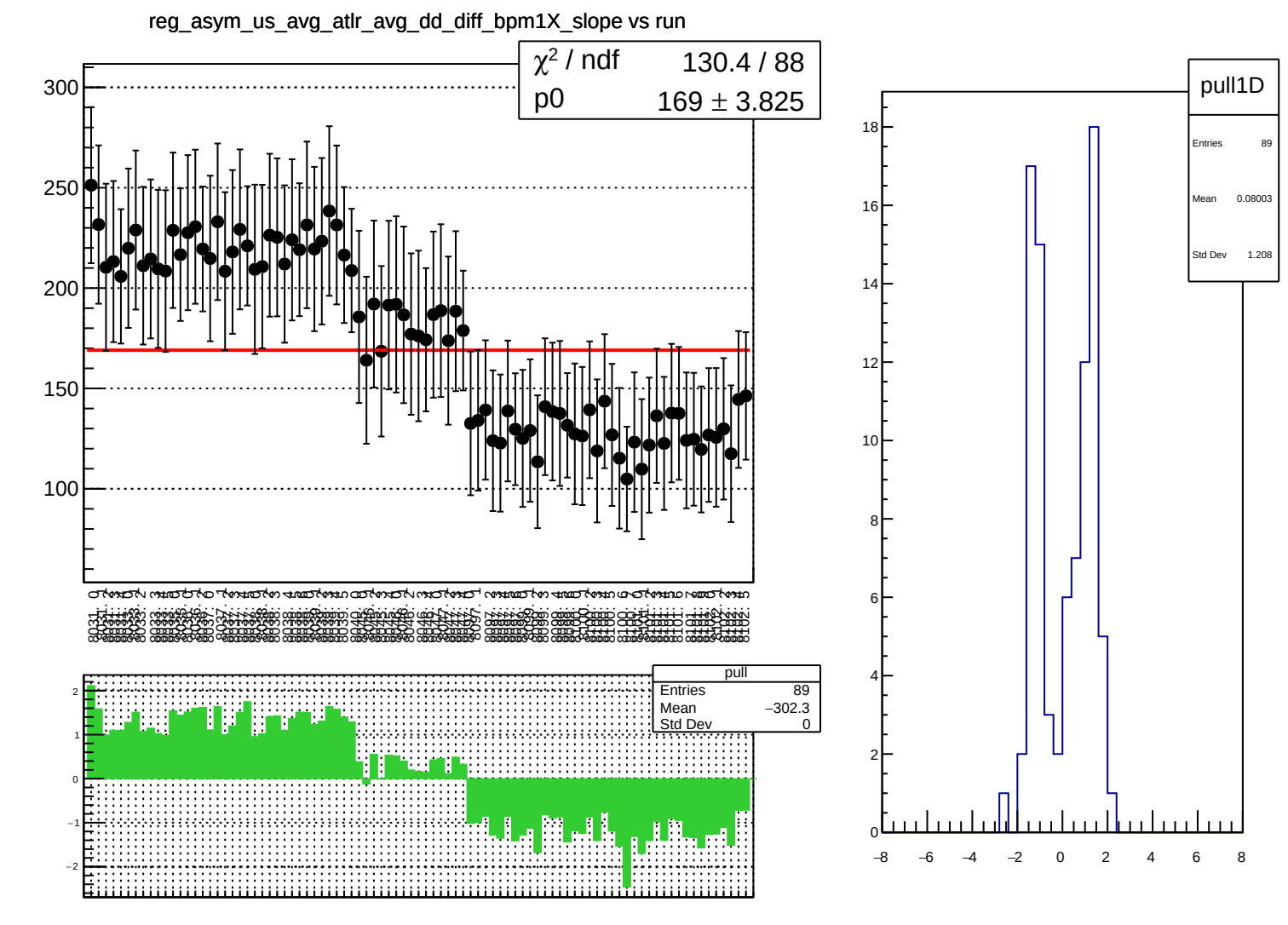

pull1D
Entries 89
Mean 0.02235
Std Dev 0.2985

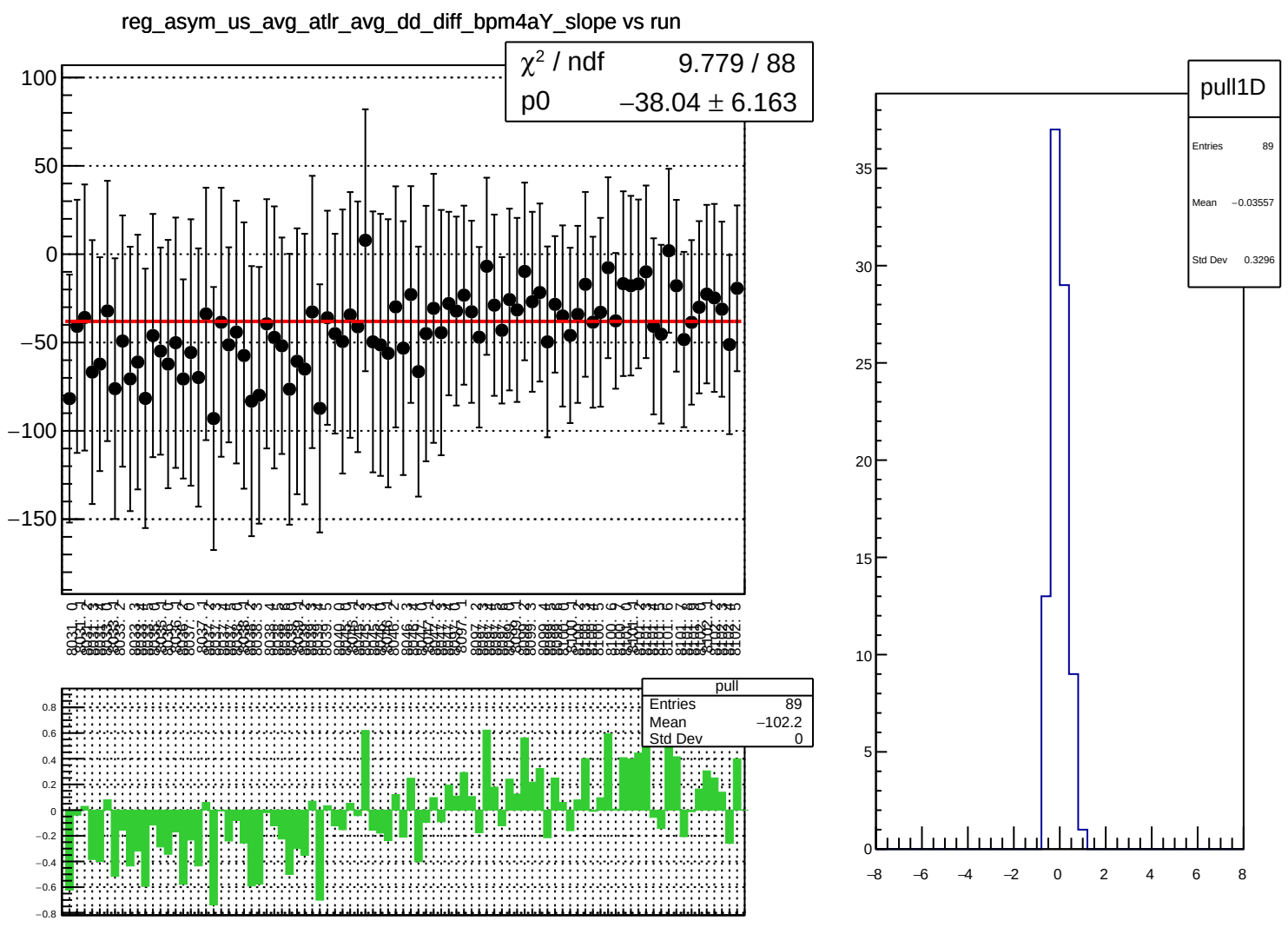

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 52.25 / 88
p0 260.6 ± 7.152
pull
Entries 89
Mean −192.5
Std Dev 0
pull1D
Entries 89
Mean 0.07044
Std Dev 0.763

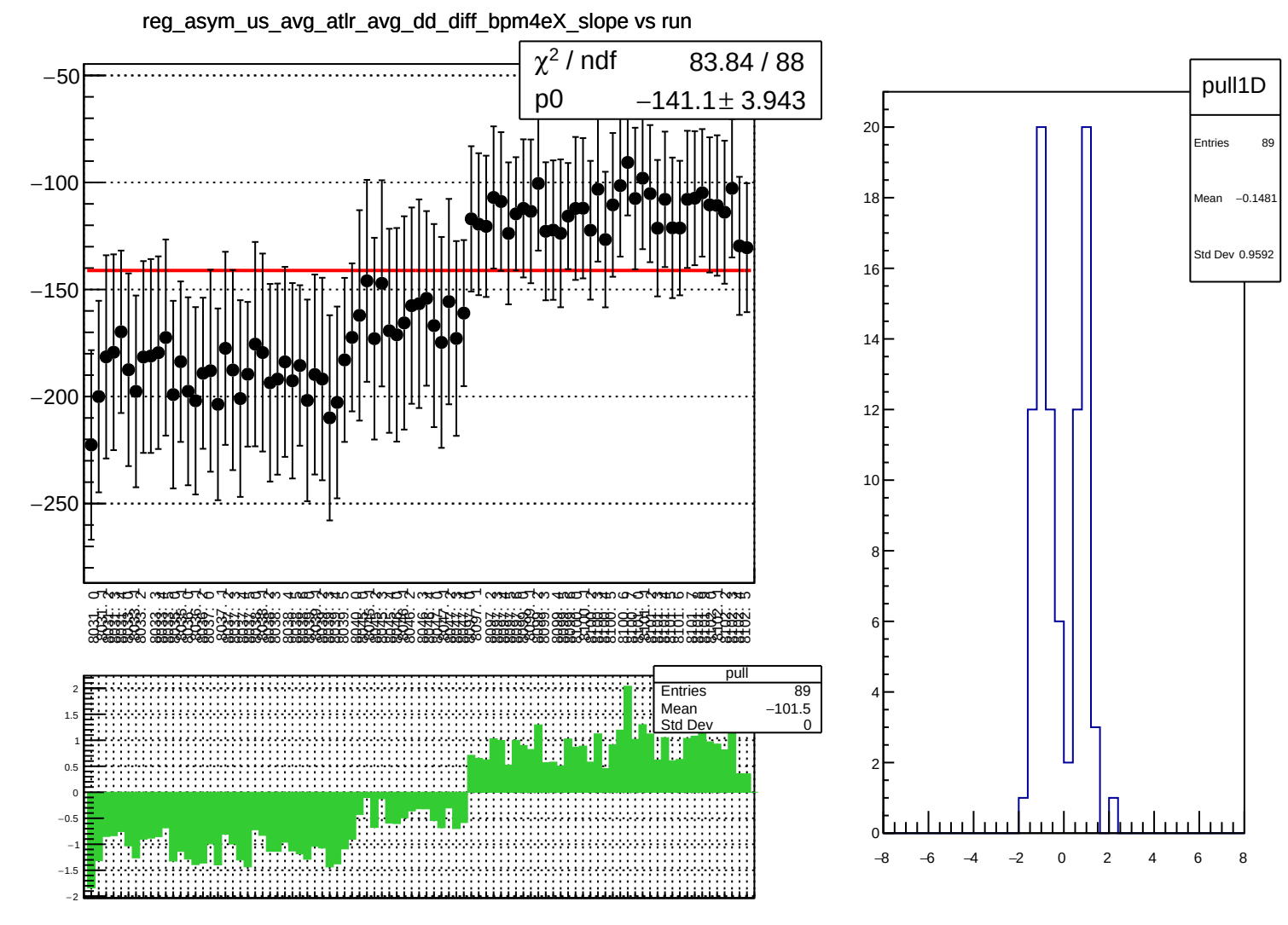

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.624 / 88
p0 −10.18 ± 11.9
pull
Entries 89
Mean −175.5
Std Dev 0

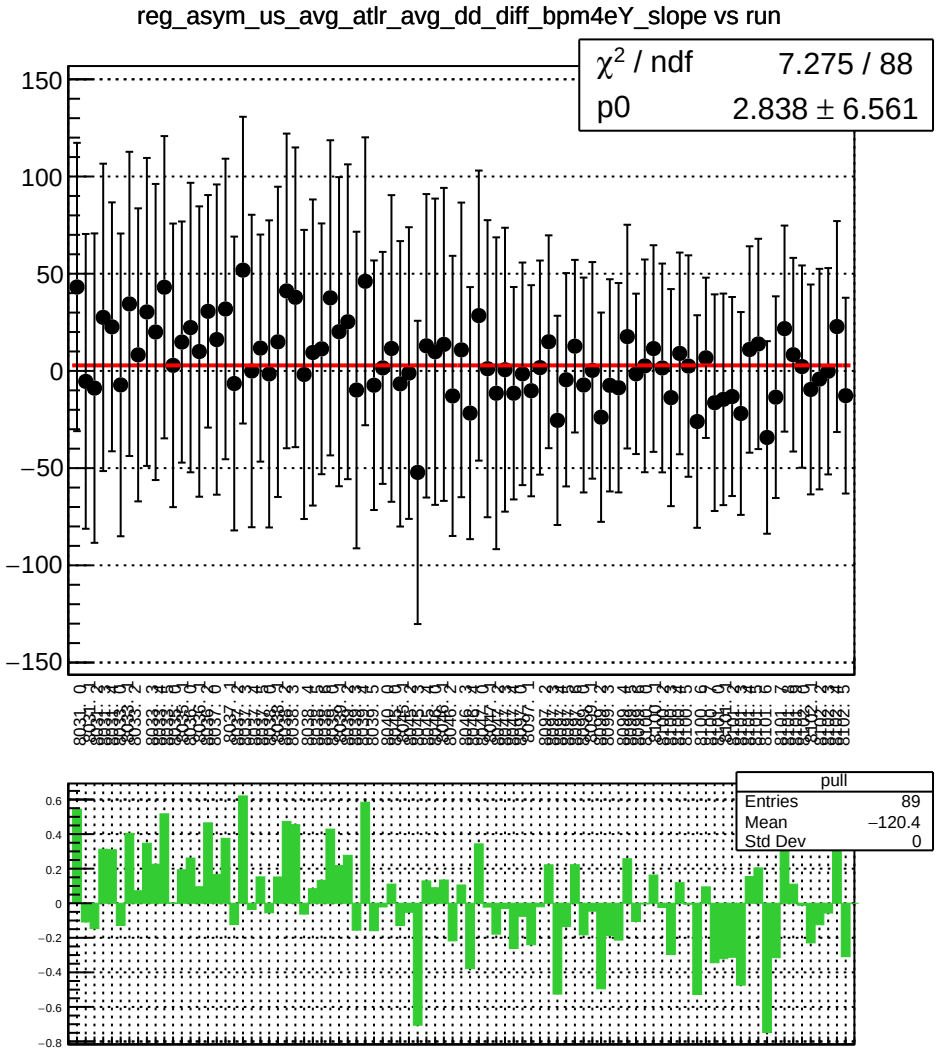

pull1D
Entries 89
Mean −0.01018
Std Dev 0.2512

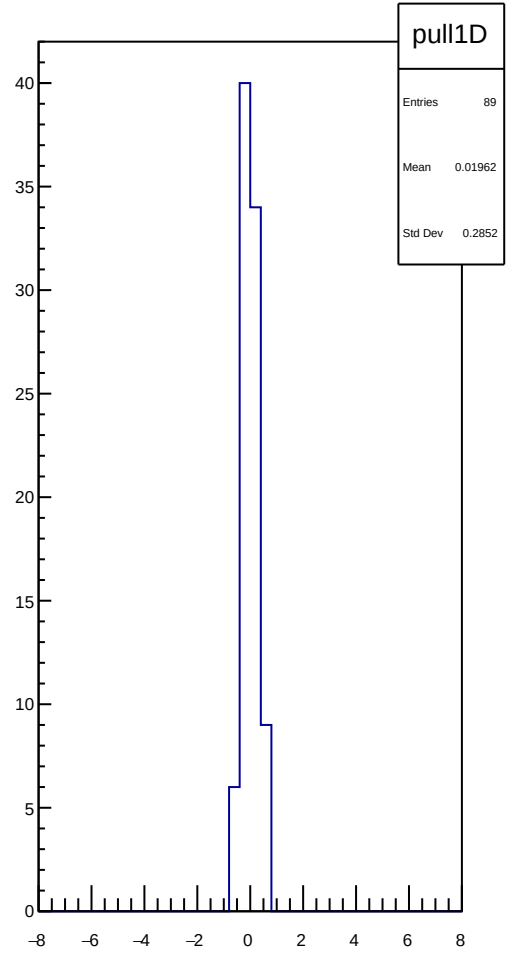

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 1958 / 88
p0 −165.1 ± 0.547
−140
−160
−180
−200
−220
pull
Entries 89
Mean −17.33
Std Dev 0
4
2
0
−2
−4
−6
−8
pull1D
Entries 89
Mean −1.494
Std Dev 4.377
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

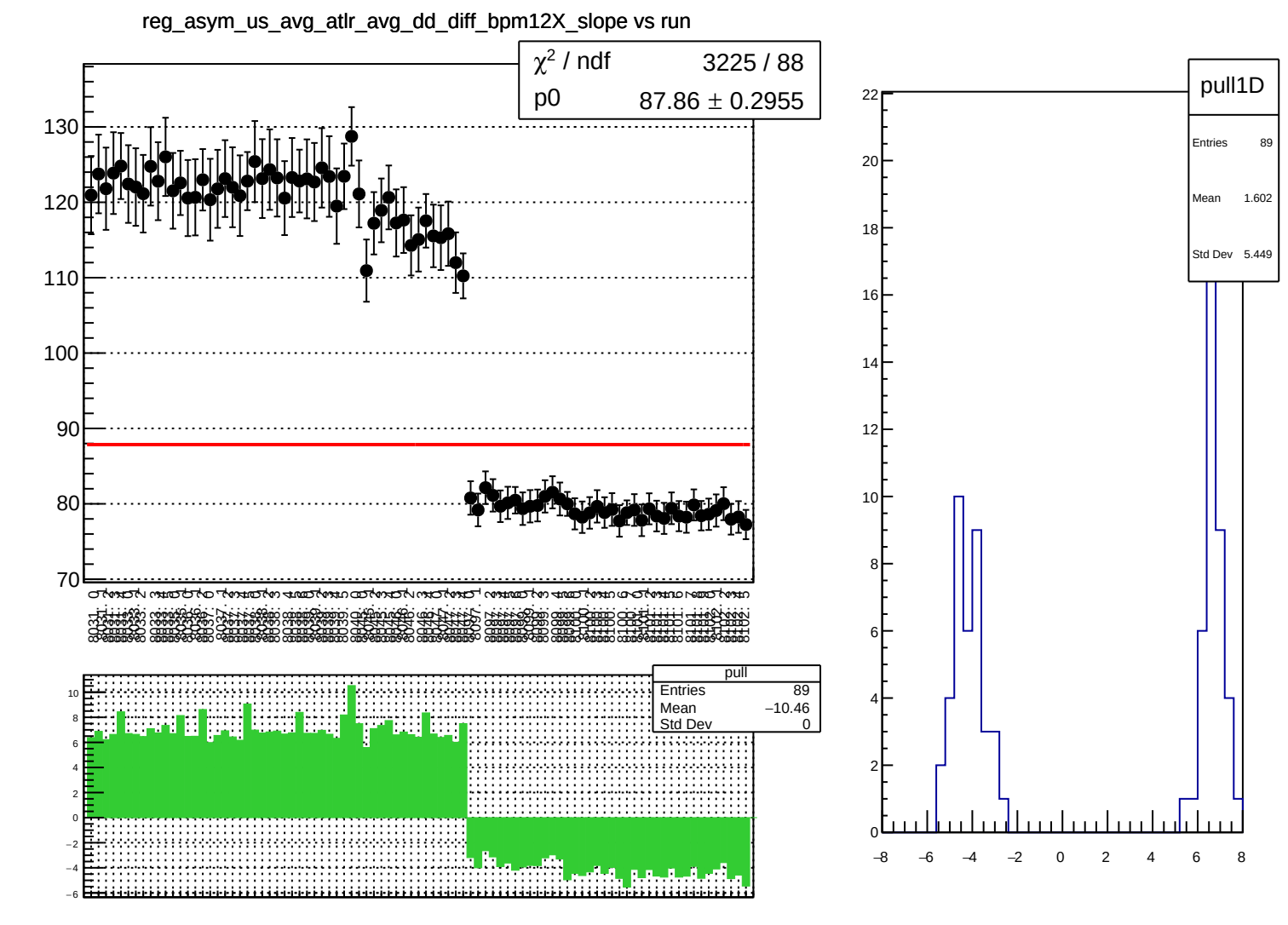

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 130.4 / 88
p0 169 ± 3.825
300
250
200
150
100
pull
Entries 89
Mean −302.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.08003
Std Dev 1.208
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

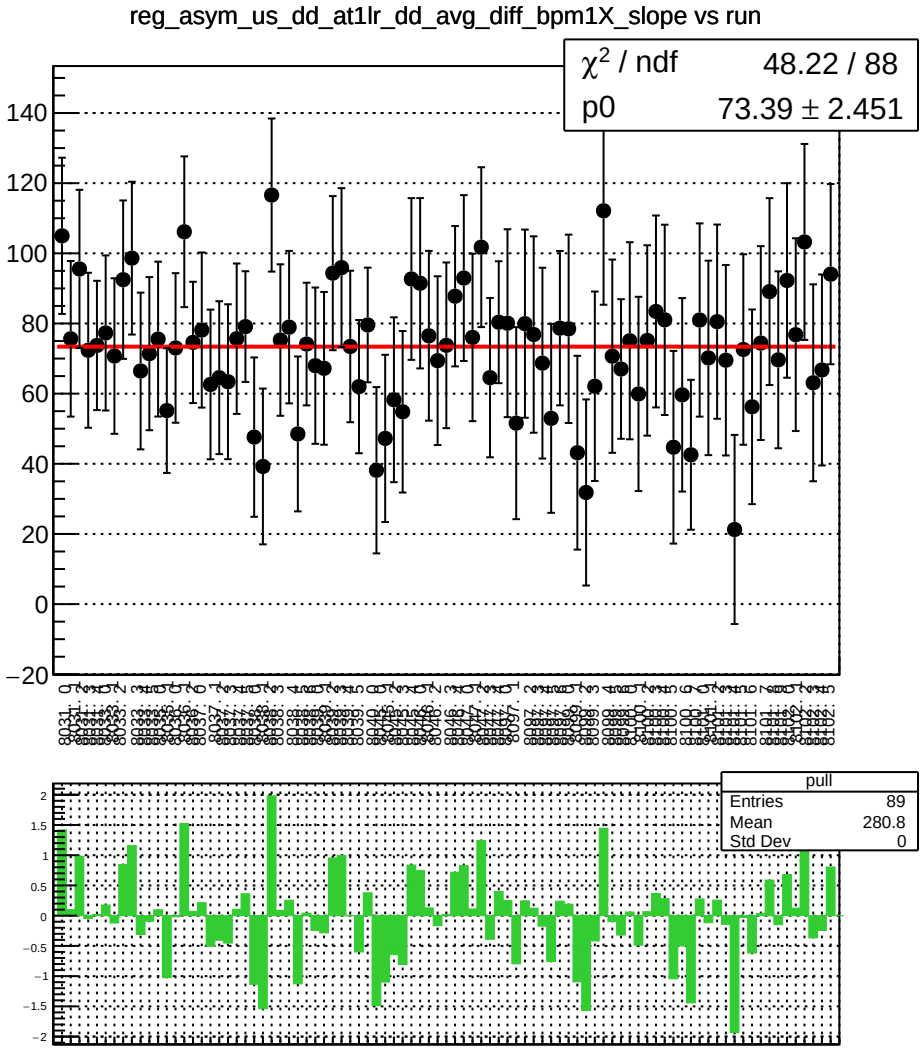

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.779 / 88
p0 −38.04 ± 6.163
pull
Entries 89
Mean −102.2
Std Dev 0
pull1D
Entries 89
Mean −0.03557
Std Dev 0.3296

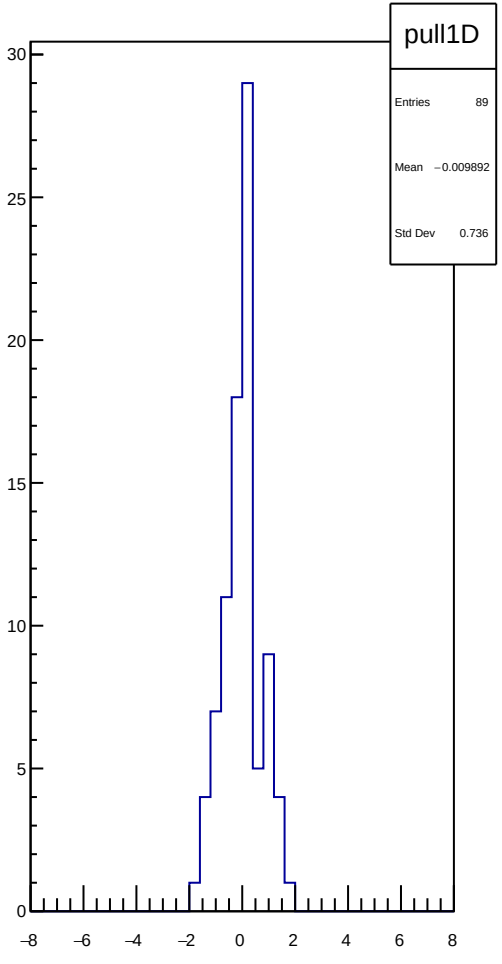

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 83.84 / 88
p0 −141.1± 3.943
−50
−100
−150
−200
−250
pull
Entries 89
Mean −101.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.1481
Std Dev 0.9592
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

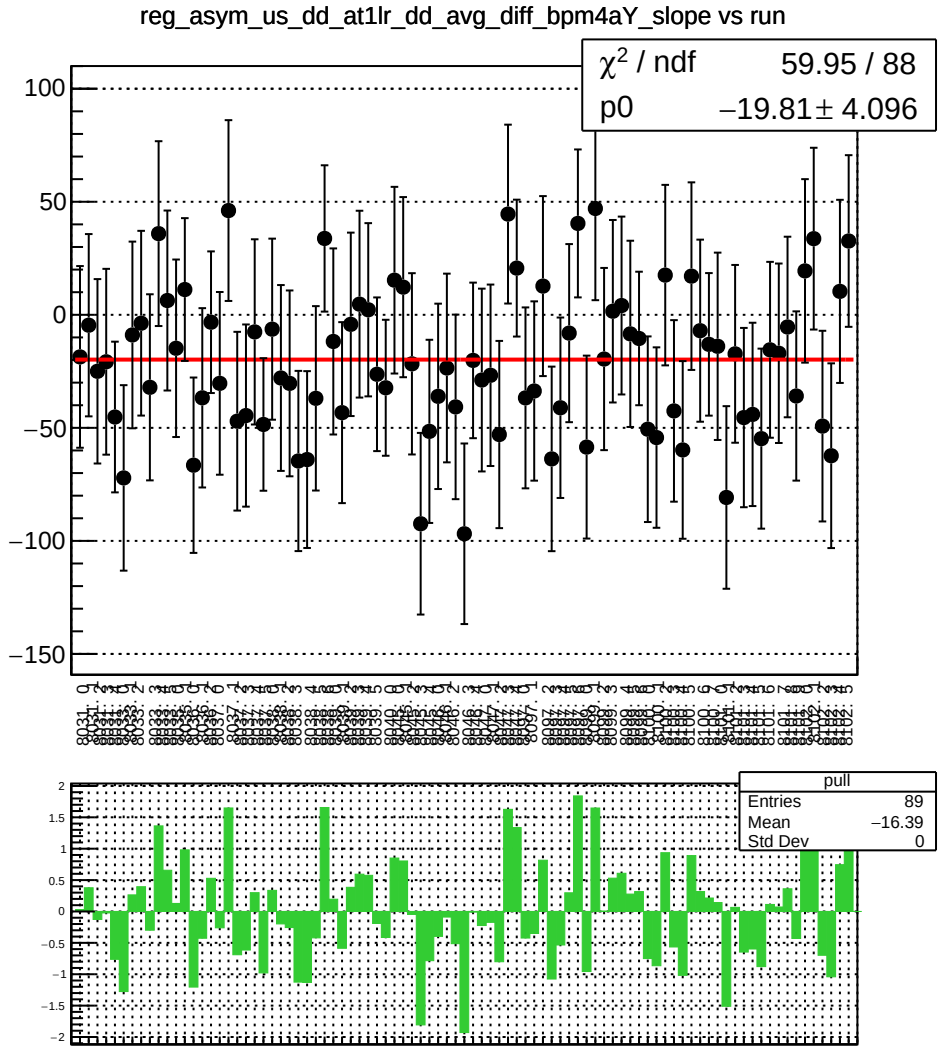

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.275 / 88
p0 2.838 ± 6.561
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −120.4
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

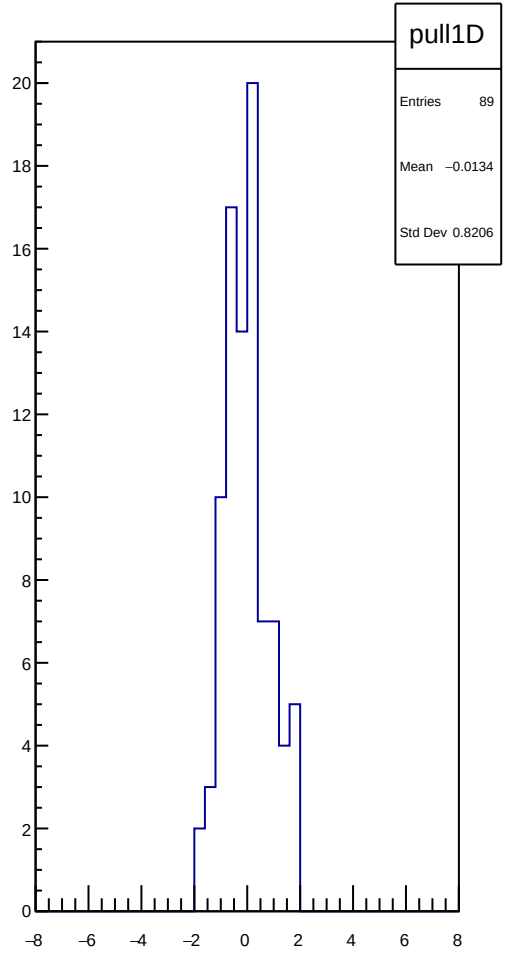

pull1D
Entries 89
Mean 0.01962
Std Dev 0.2852
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

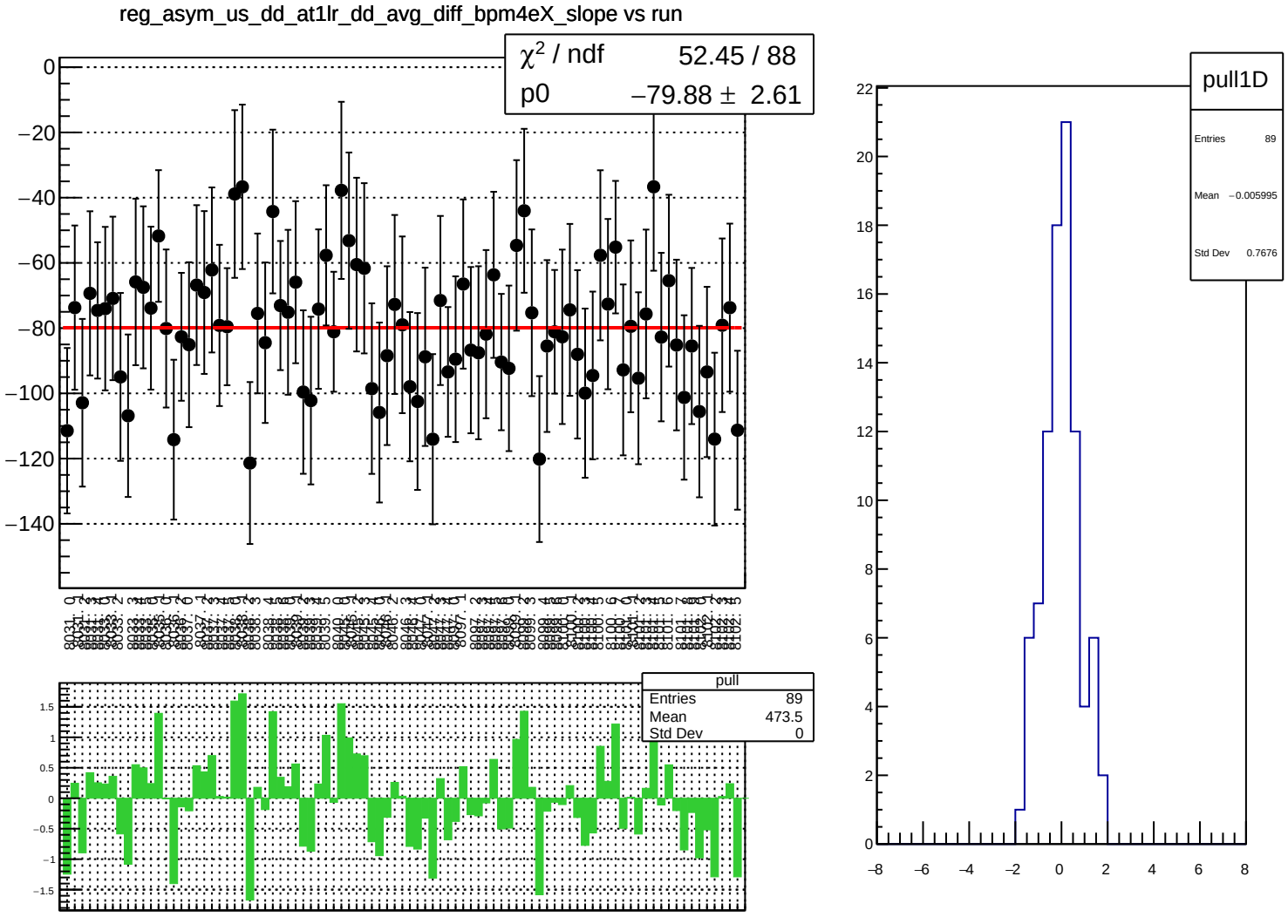

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 3225 / 88
p0 87.86 ± 0.2955
pull
Entries 89
Mean −10.46
Std Dev 0
pull1D
Entries 89
Mean 1.602
Std Dev 5.449

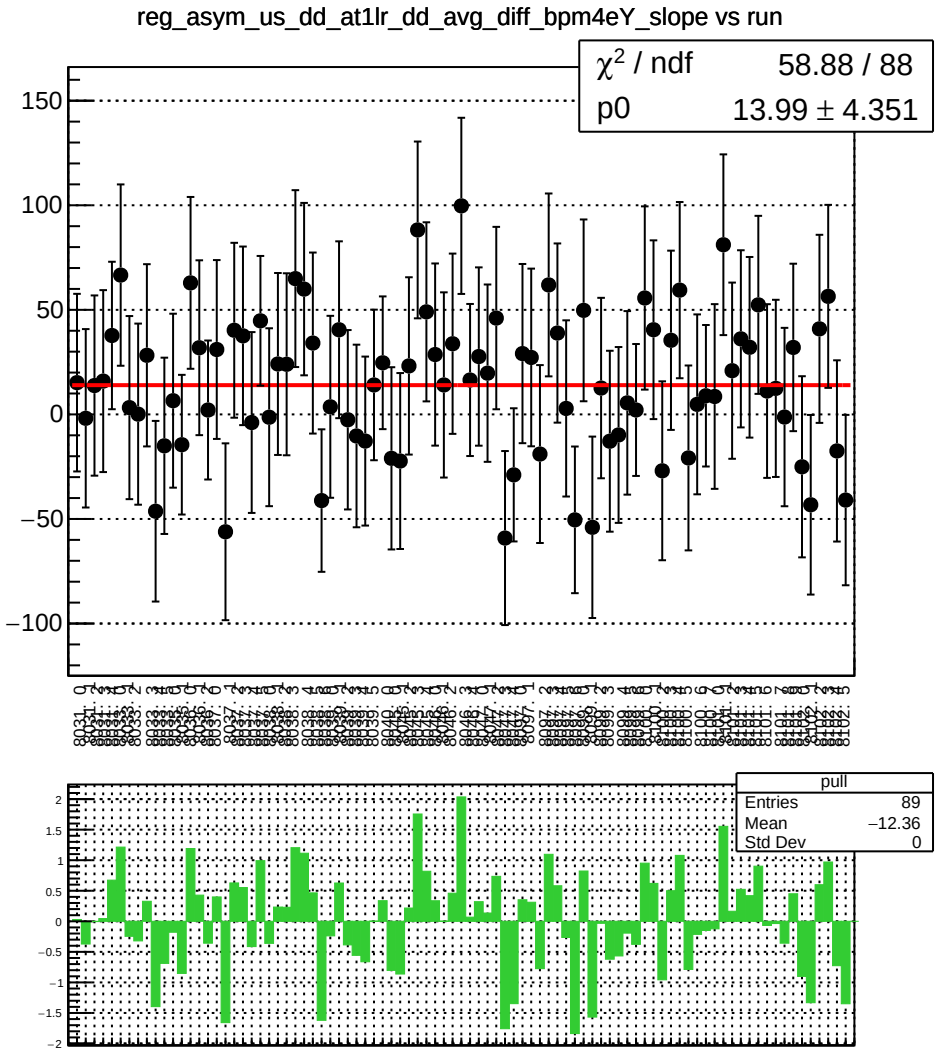

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 48.22 / 88
p0 73.39 ± 2.451
pull
Entries 89
Mean 280.8
Std Dev 0

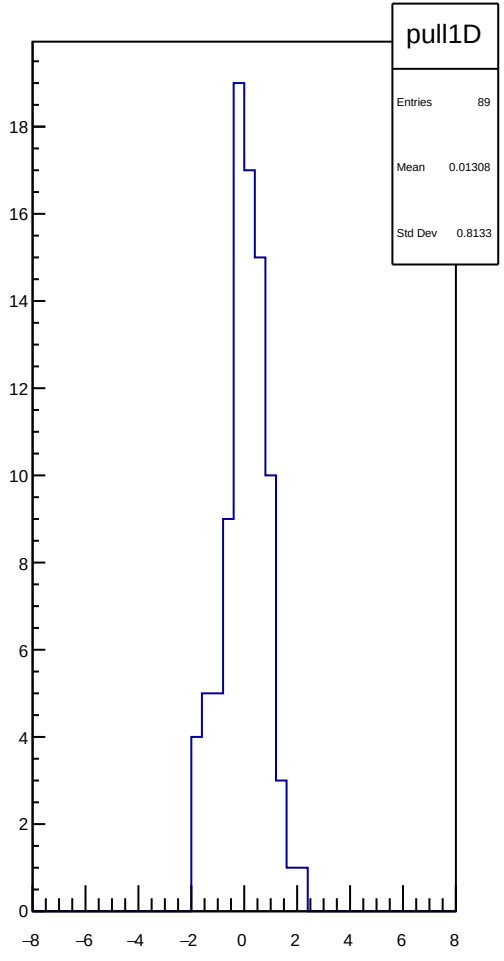

pull1D
Entries 89
Mean −0.009892
Std Dev 0.736

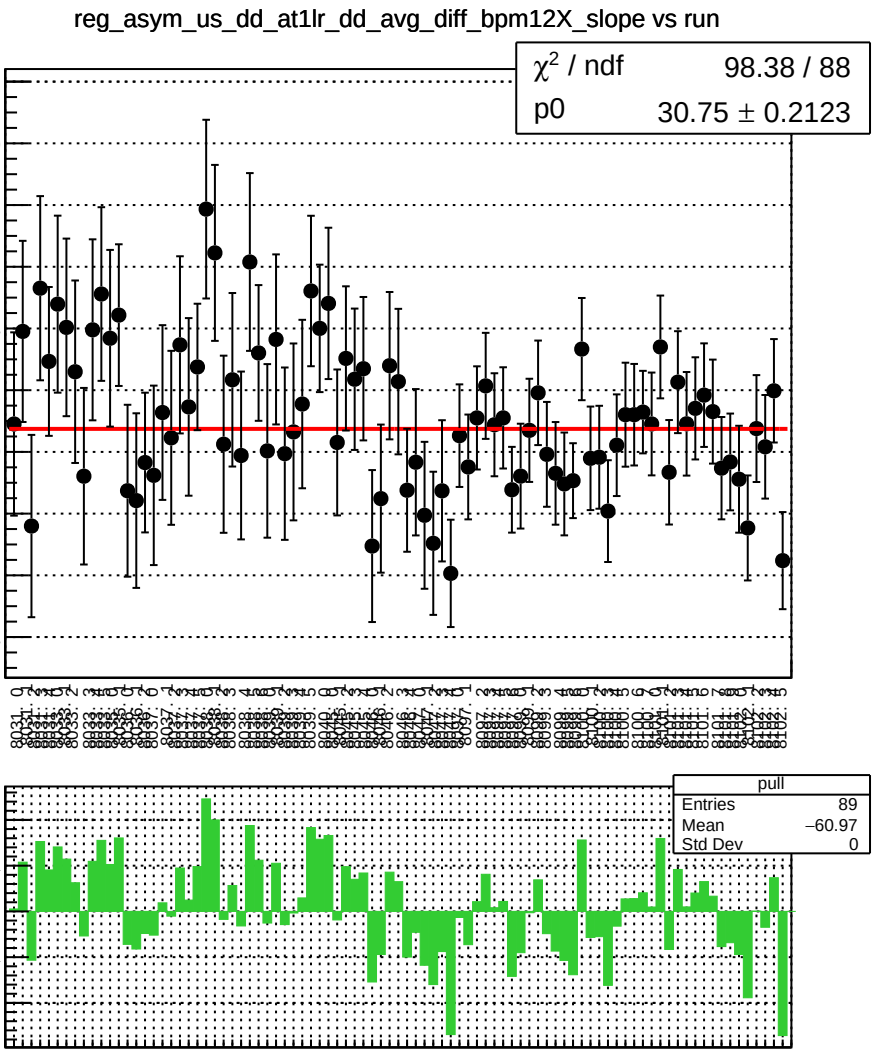

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 59.95 / 88
p0 −19.81 ± 4.096
pull
Entries 89
Mean −16.39
Std Dev 0

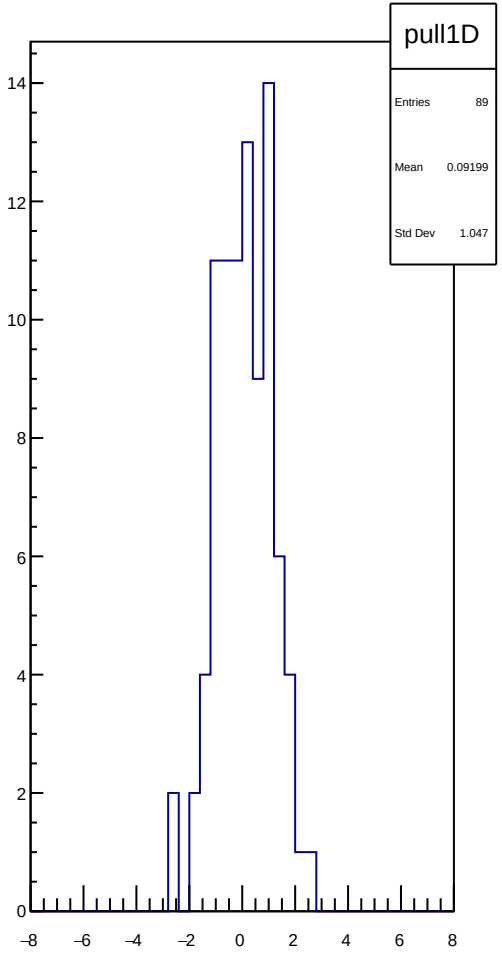

pull1D
Entries 89
Mean −0.0134
Std Dev 0.8206

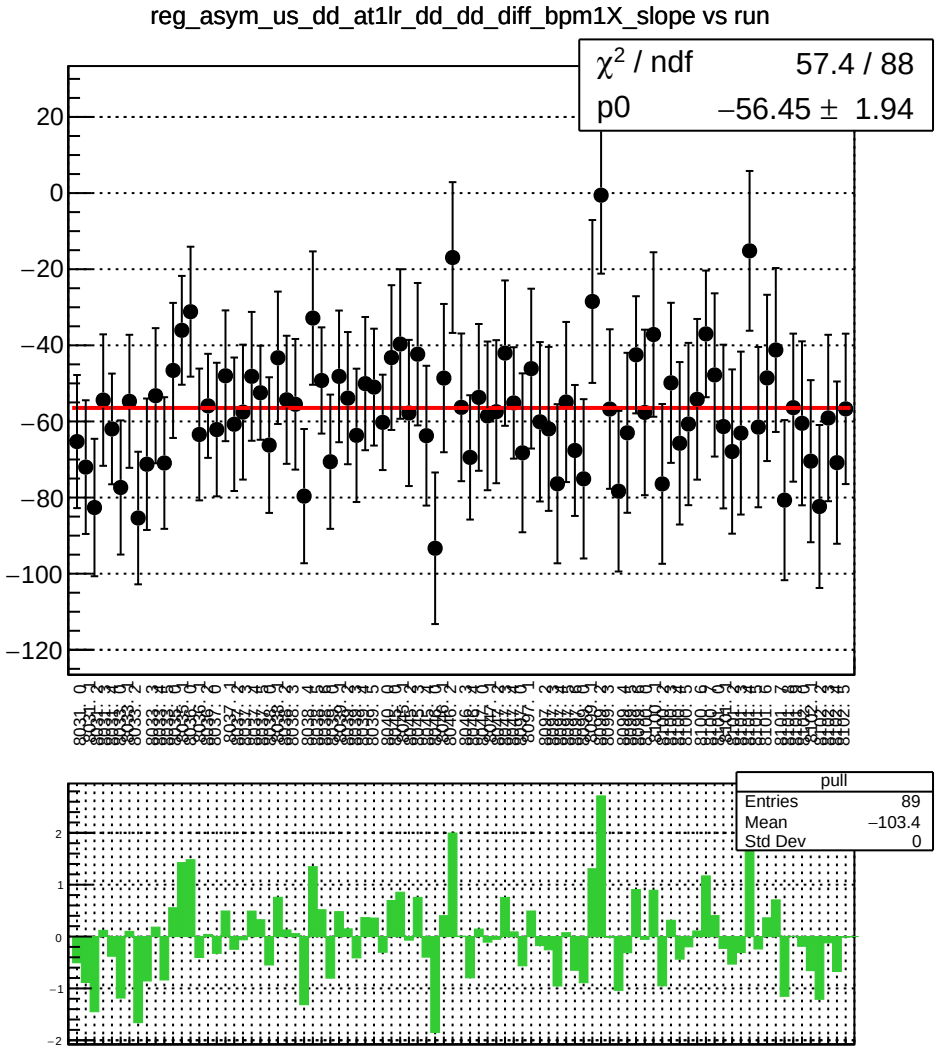

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 52.45 / 88
p0 −79.88 ± 2.61
pull
Entries 89
Mean 473.5
Std Dev 0
pull1D
Entries 89
Mean −0.005995
Std Dev 0.7676

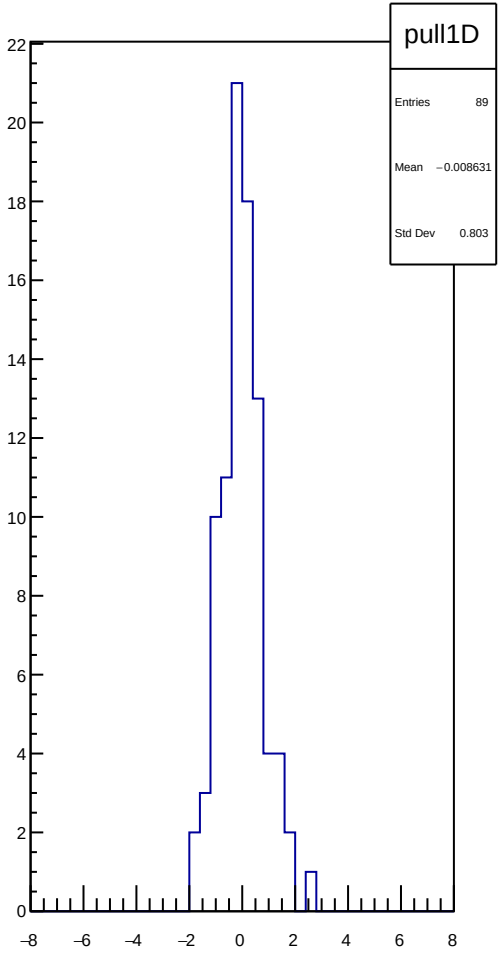

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 58.88 / 88
p0 13.99 ± 4.351
150
100
50
0
−50
−100
pull
Entries 89
Mean −12.36
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

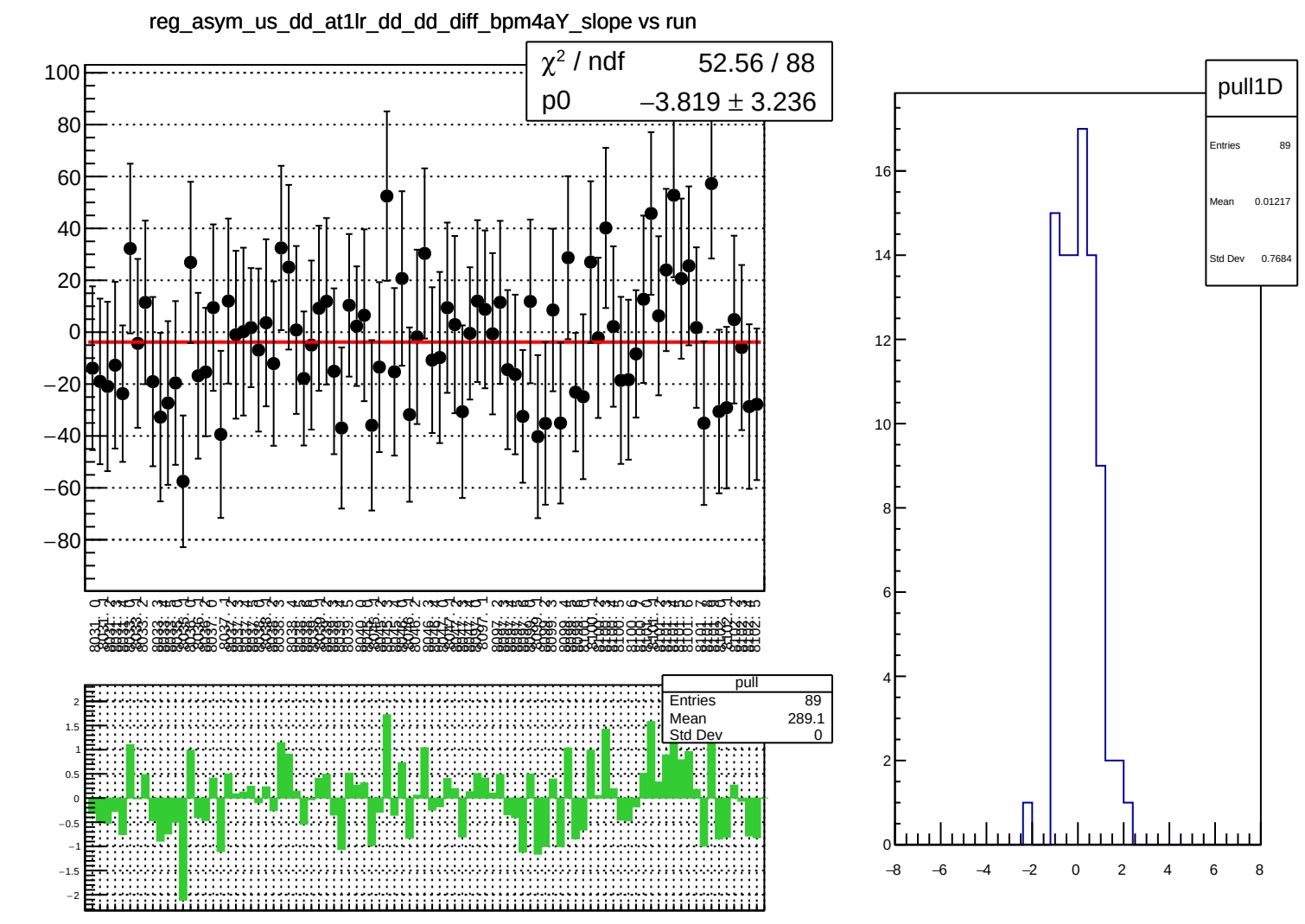

pull1D
Entries 89
Mean 0.01308
Std Dev 0.8133
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

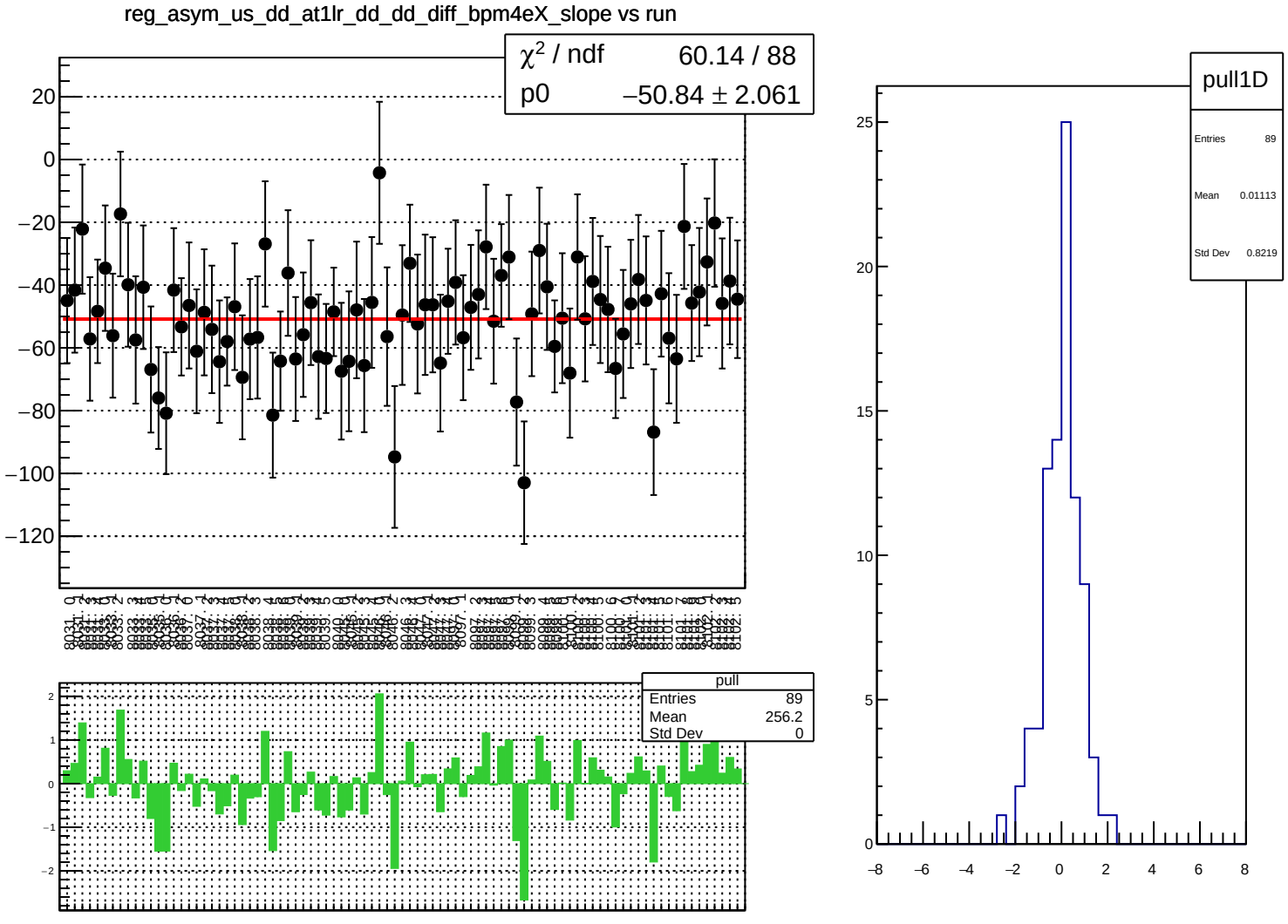

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 98.38 / 88
p0 30.75 ± 0.2123
pull
Entries 89
Mean −60.97
Std Dev 0

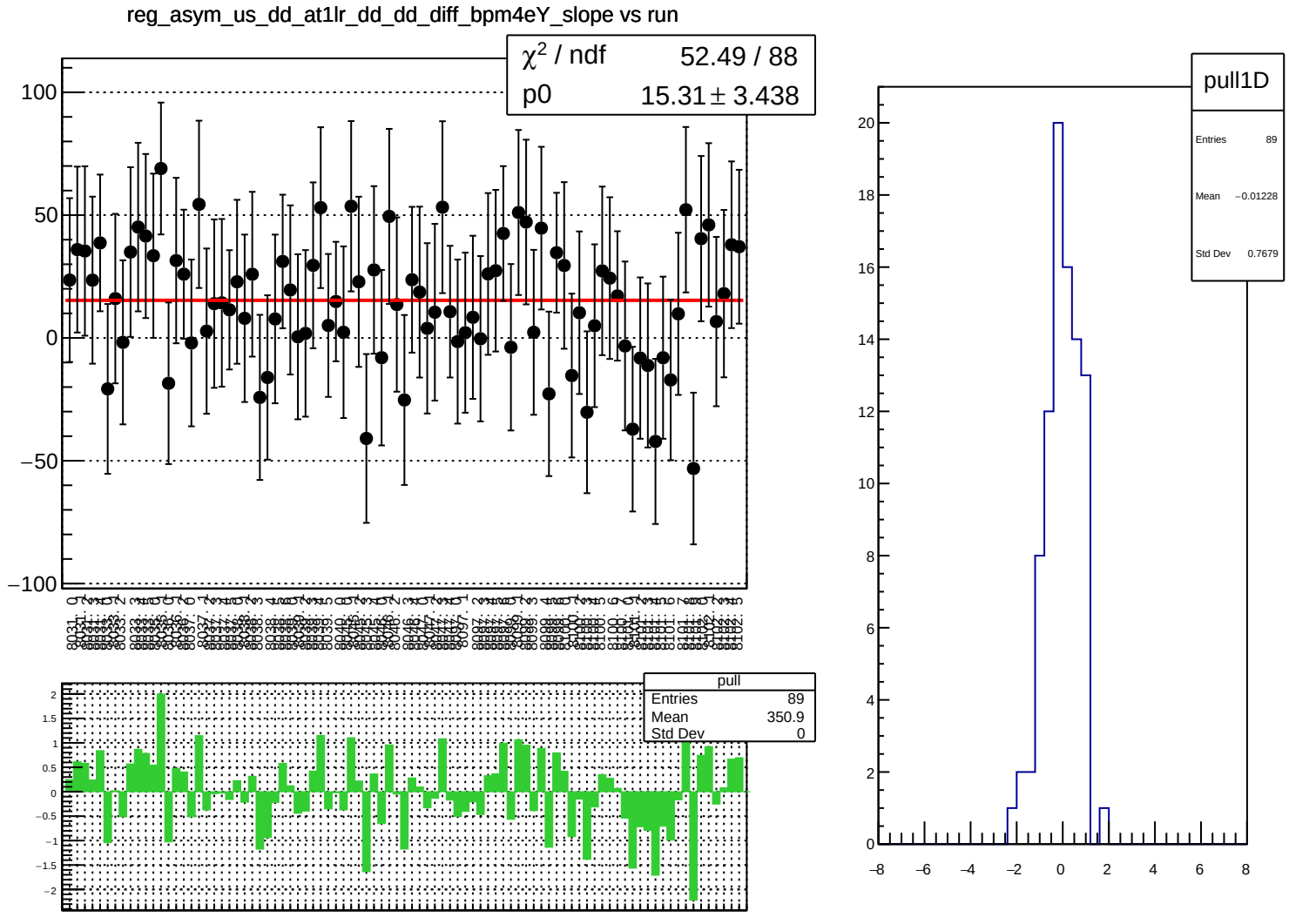

pull1D
Entries 89
Mean 0.09199
Std Dev 1.047

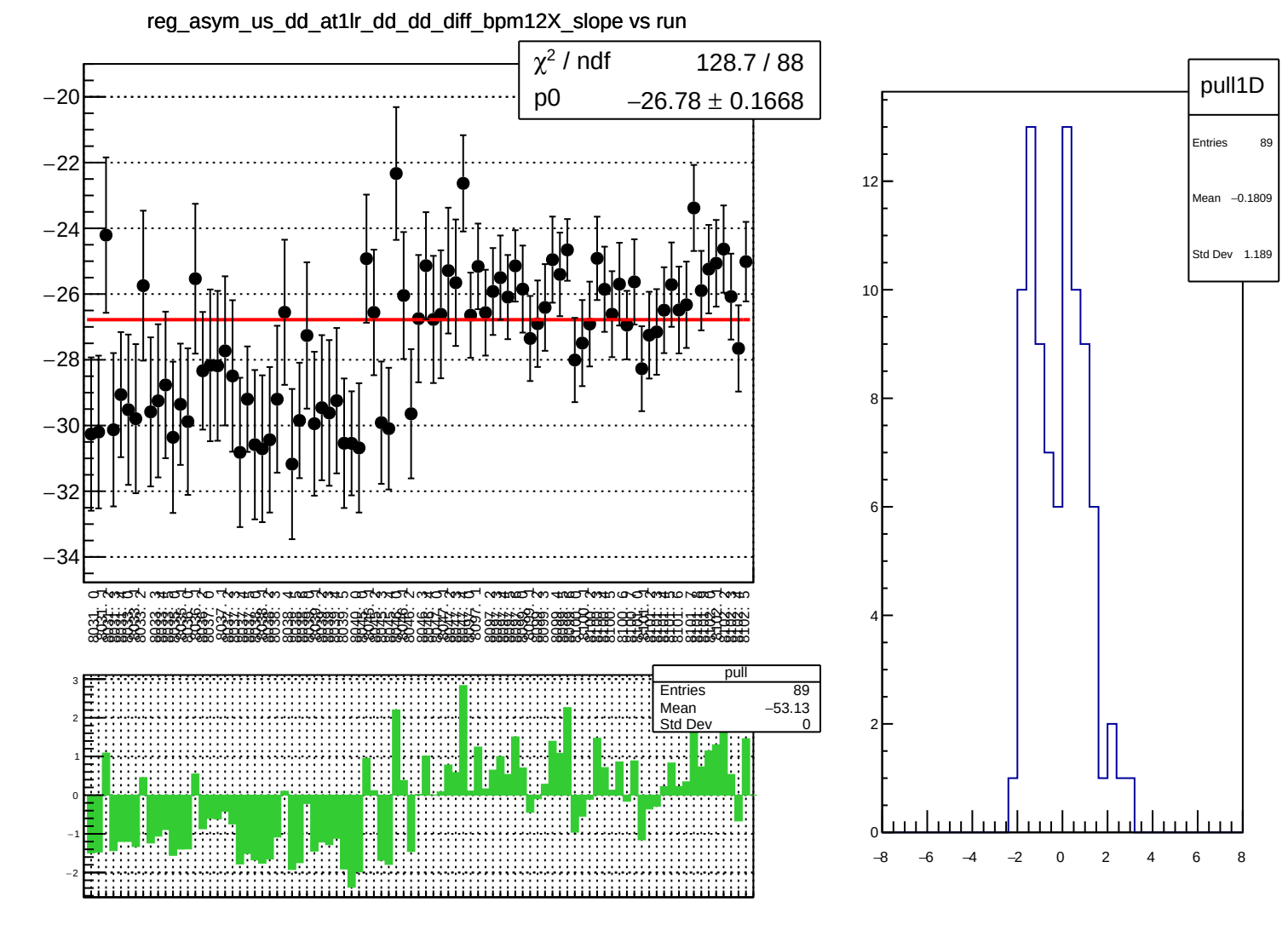

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 57.4 / 88
p0 −56.45 ± 1.94
pull
Entries 89
Mean −103.4
Std Dev 0

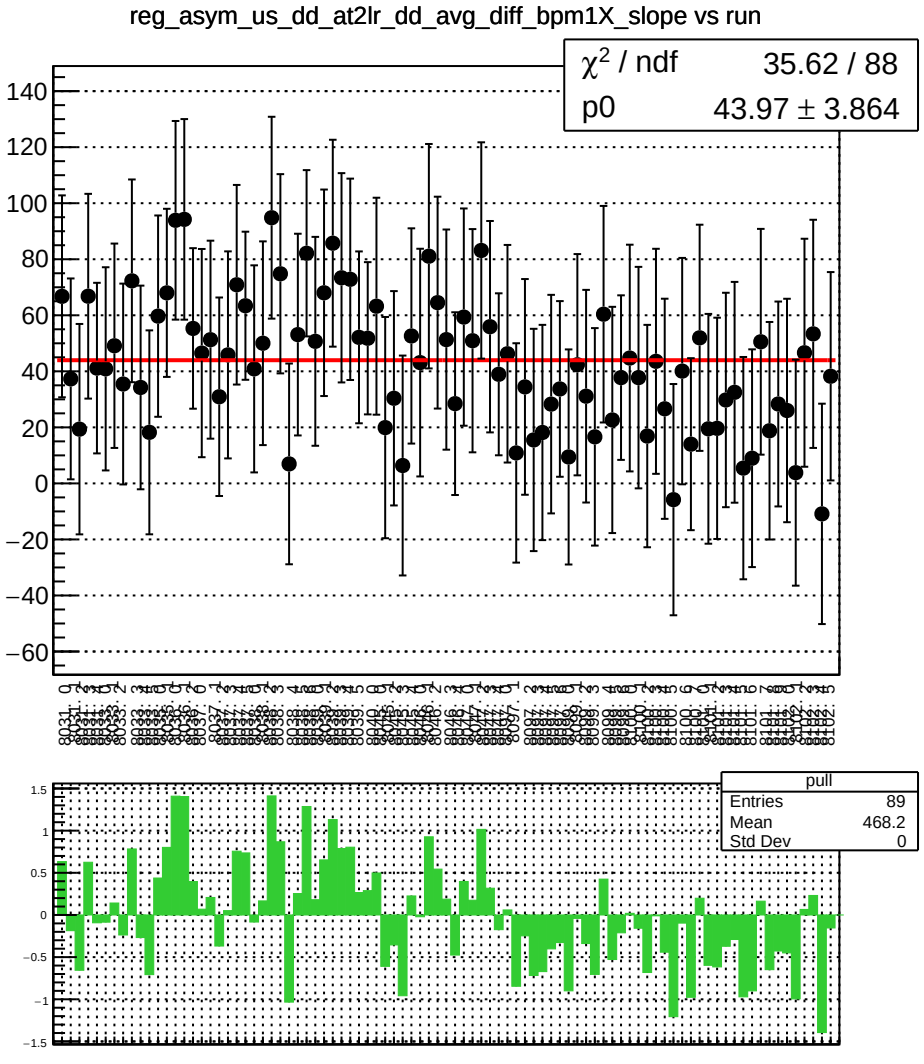

pull1D
Entries 89
Mean −0.008631
Std Dev 0.803

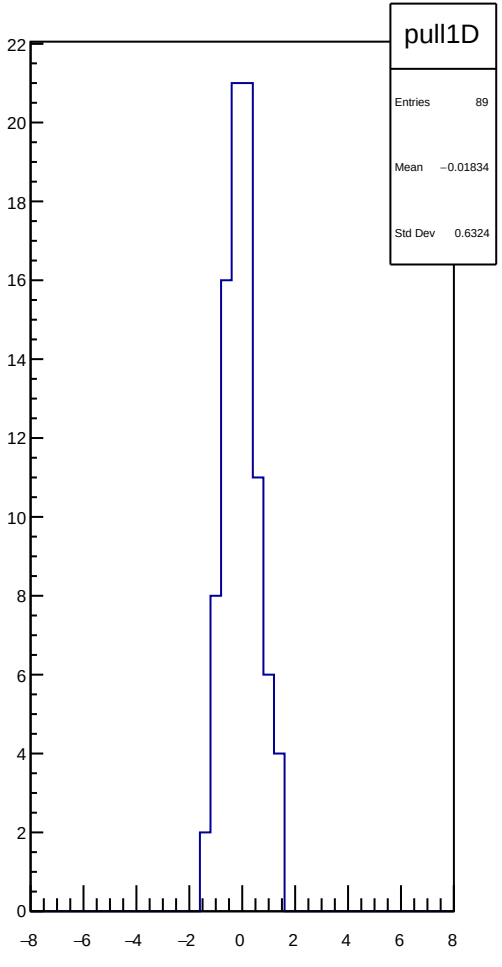

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 52.56 / 88
p0 −3.819 ± 3.236
pull
Entries 89
Mean 289.1
Std Dev 0
pull1D
Entries 89
Mean 0.01217
Std Dev 0.7684

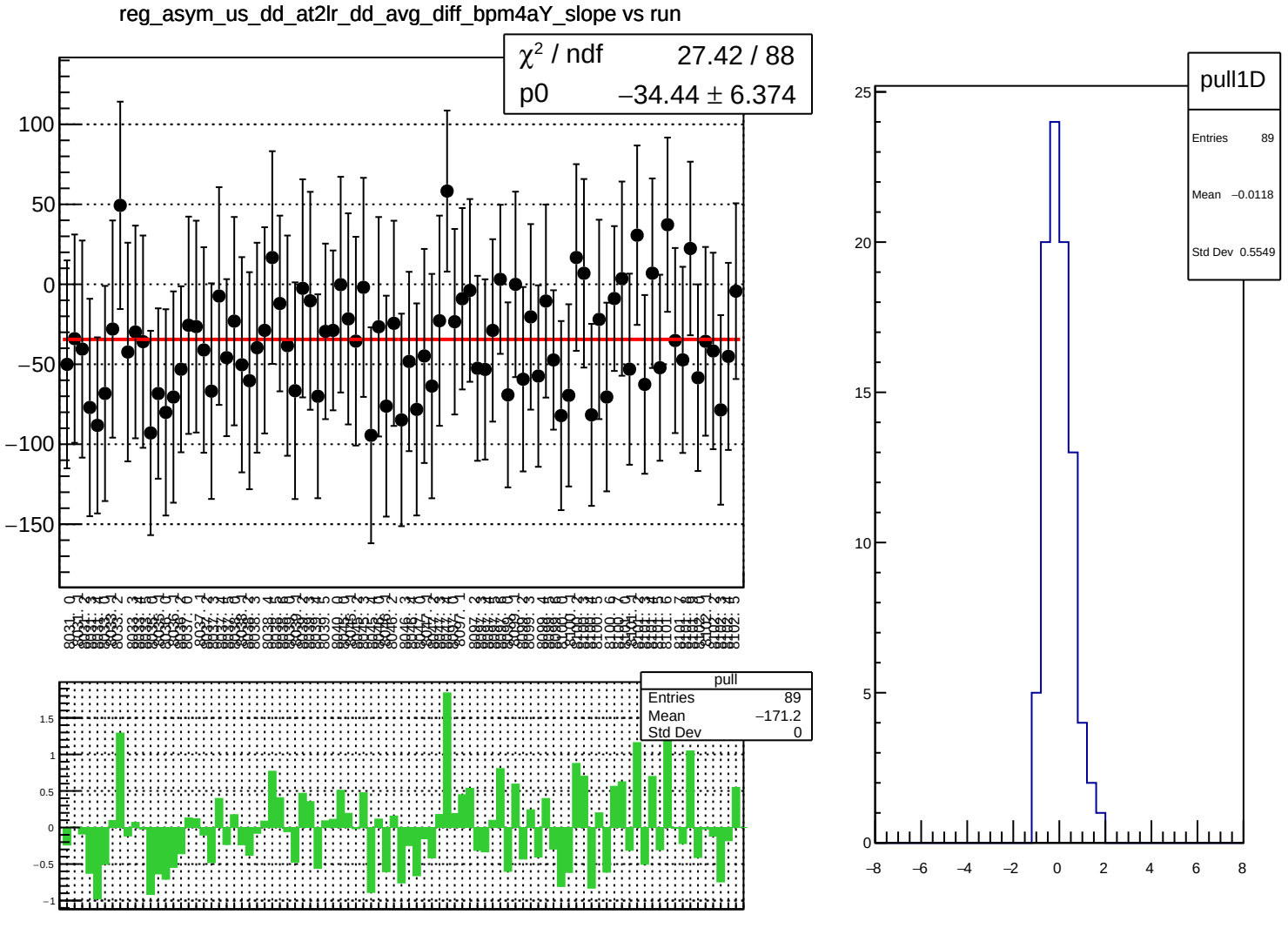

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 60.14 / 88
p0 −50.84 ± 2.061
pull
Entries 89
Mean 256.2
Std Dev 0
pull1D
Entries 89
Mean 0.01113
Std Dev 0.8219

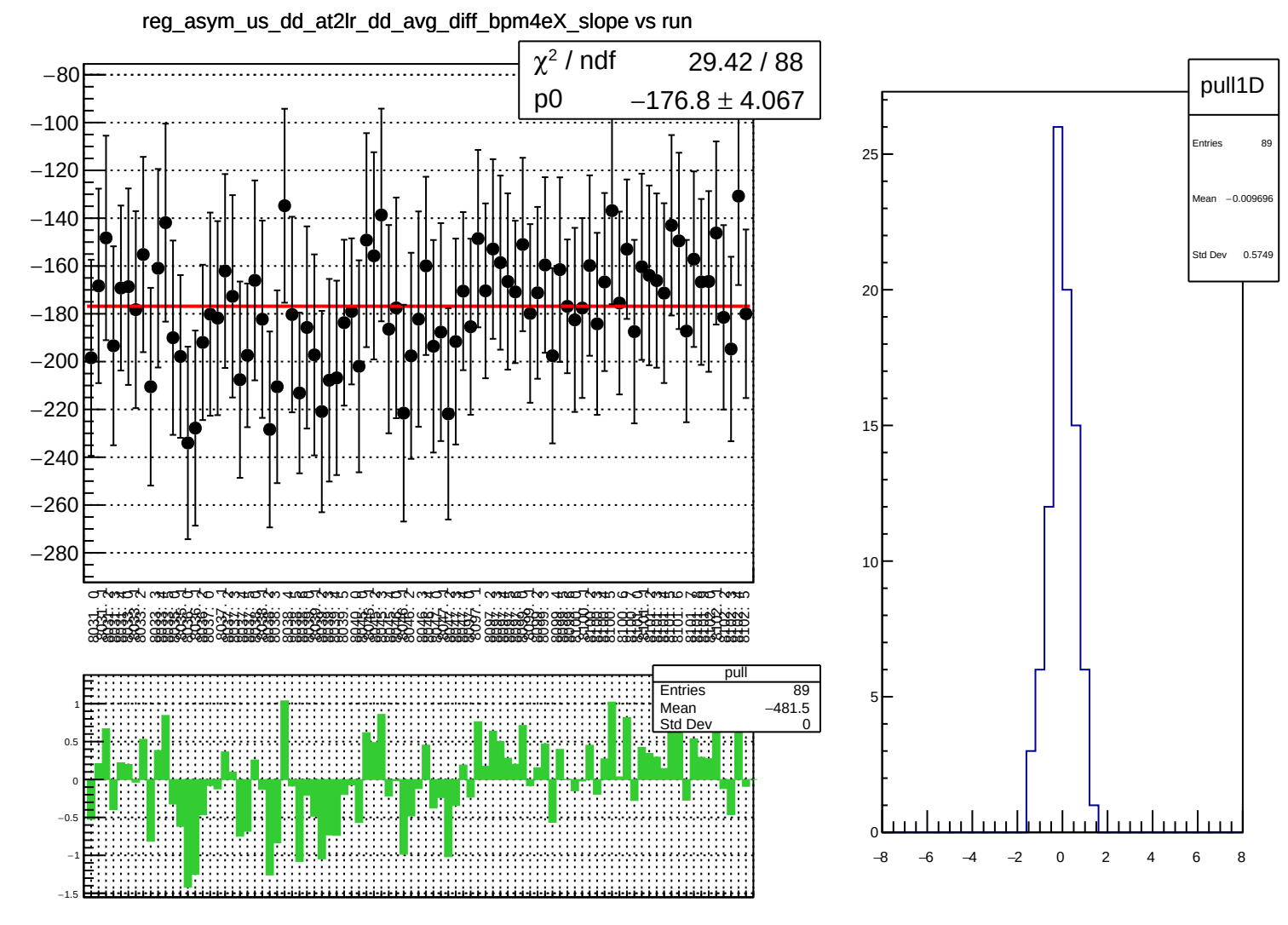

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 52.49 / 88
p0 15.31 ± 3.438
100
50
0
−50
−100
pull
Entries 89
Mean 350.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.01228
Std Dev 0.7679
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

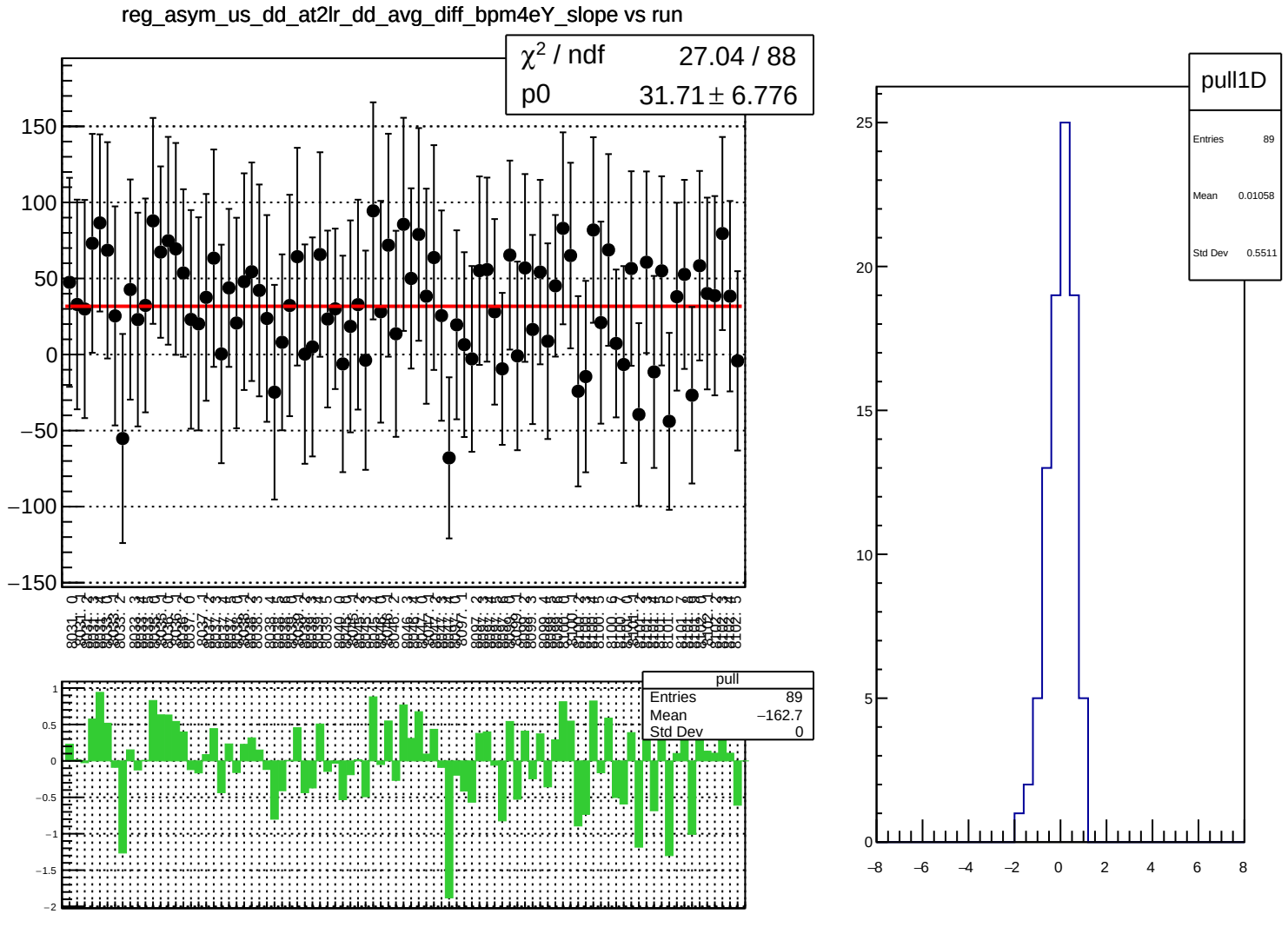

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 128.7 / 88
p0 −26.78 ± 0.1668
pull
Entries 89
Mean −53.13
Std Dev 0
pull1D
Entries 89
Mean −0.1809
Std Dev 1.189

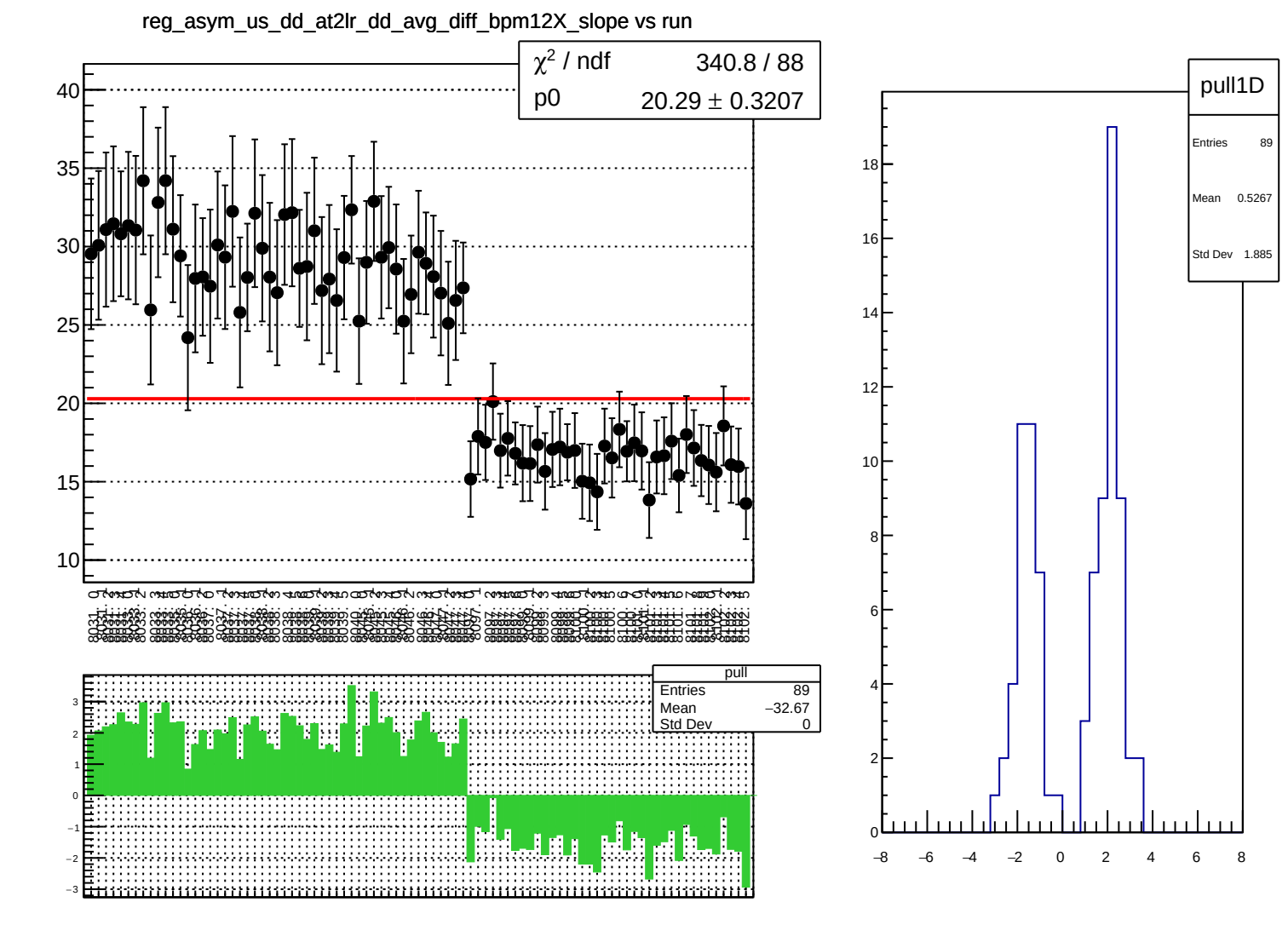

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 35.62 / 88
p0 43.97 ± 3.864
pull
Entries 89
Mean 468.2
Std Dev 0

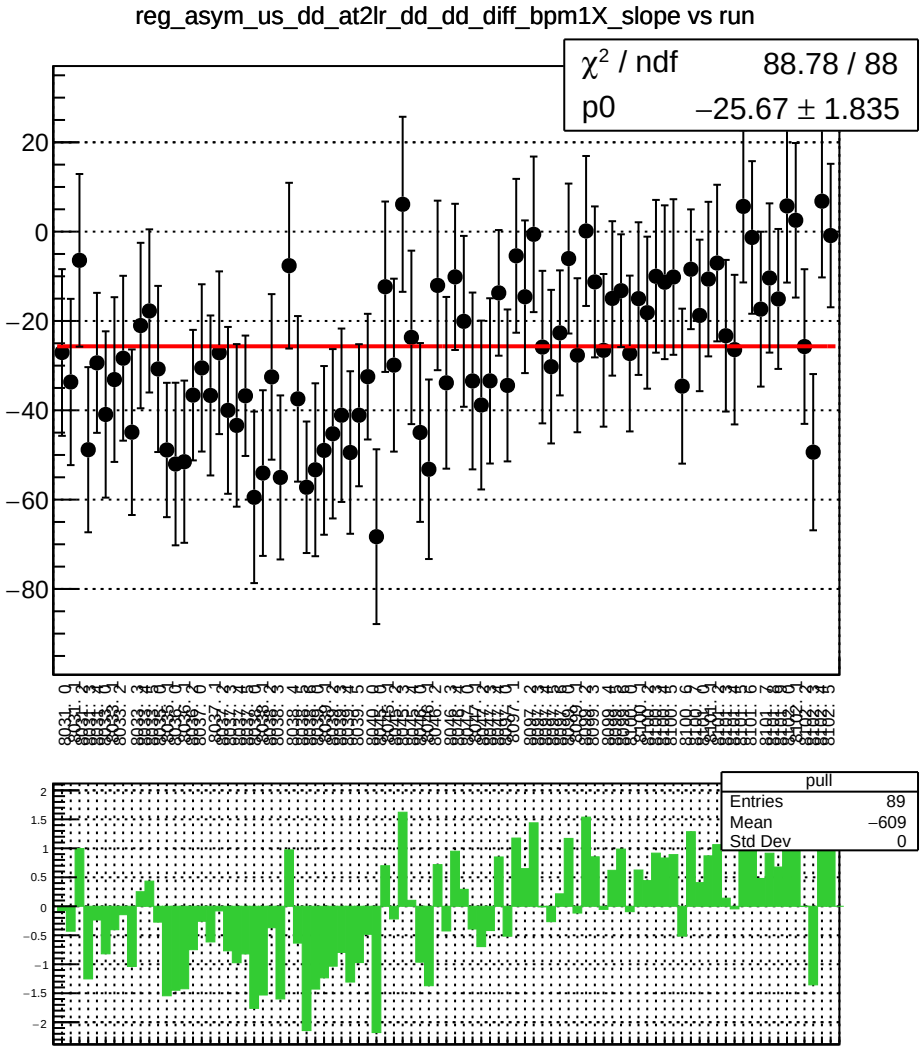

pull1D
Entries 89
Mean −0.01834
Std Dev 0.6324

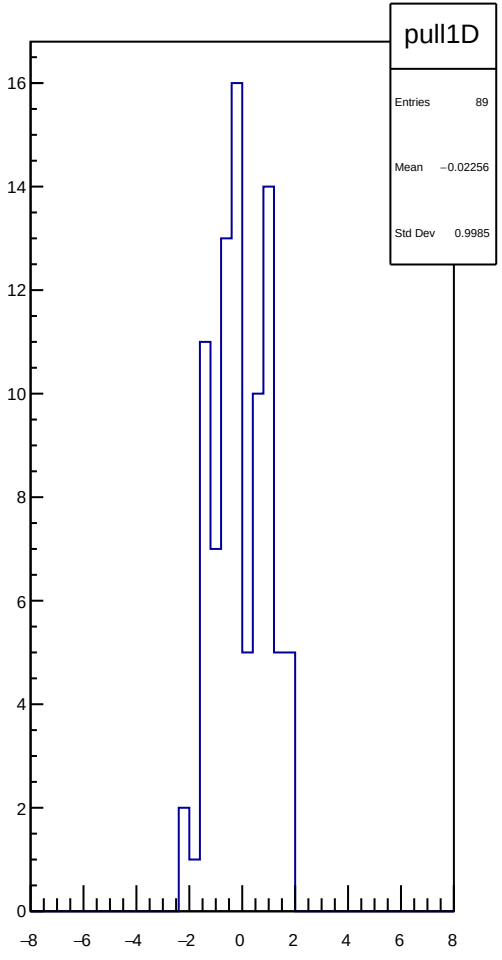

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 27.42 / 88
p0 −34.44 ± 6.374
100
50
0
−50
−100
−150
pull
Entries 89
Mean −171.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean −0.0118
Std Dev 0.5549
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

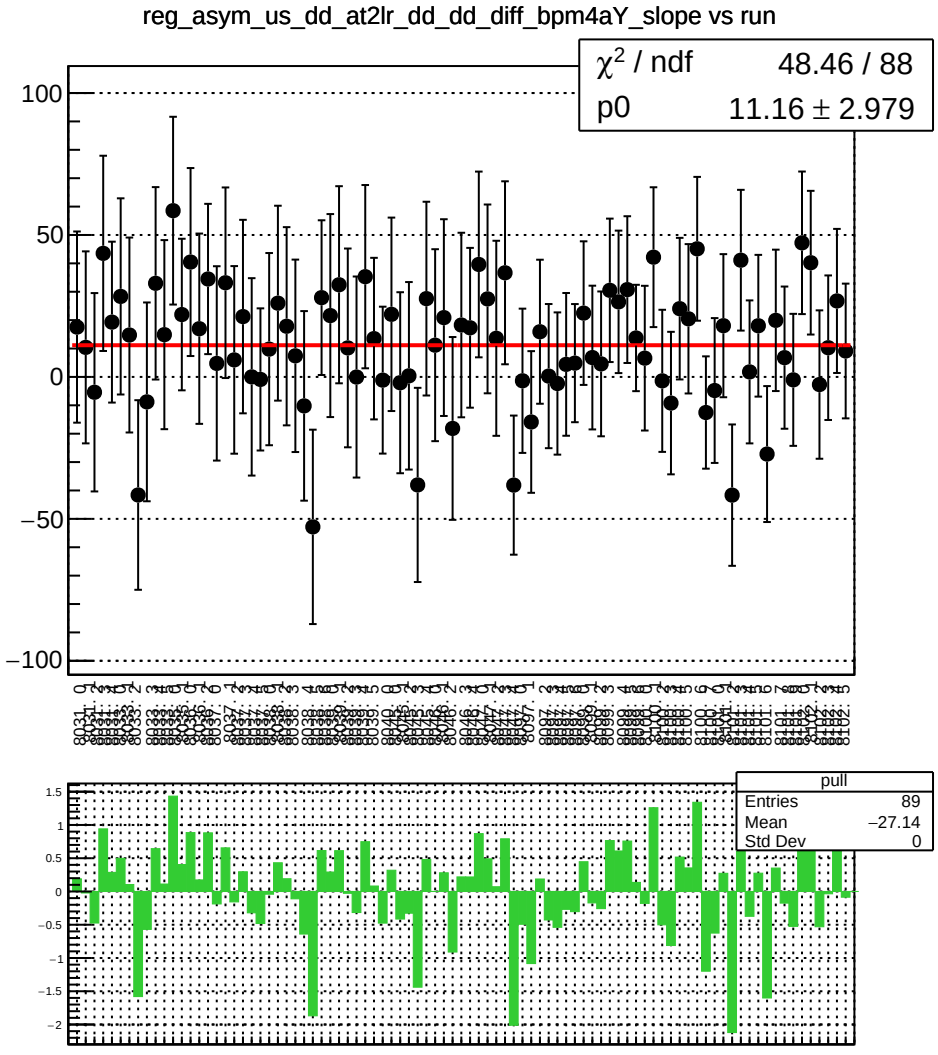

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 29.42 / 88
p0 −176.8 ± 4.067
pull
Entries 89
Mean −481.5
Std Dev 0
pull1D
Entries 89
Mean −0.009696
Std Dev 0.5749

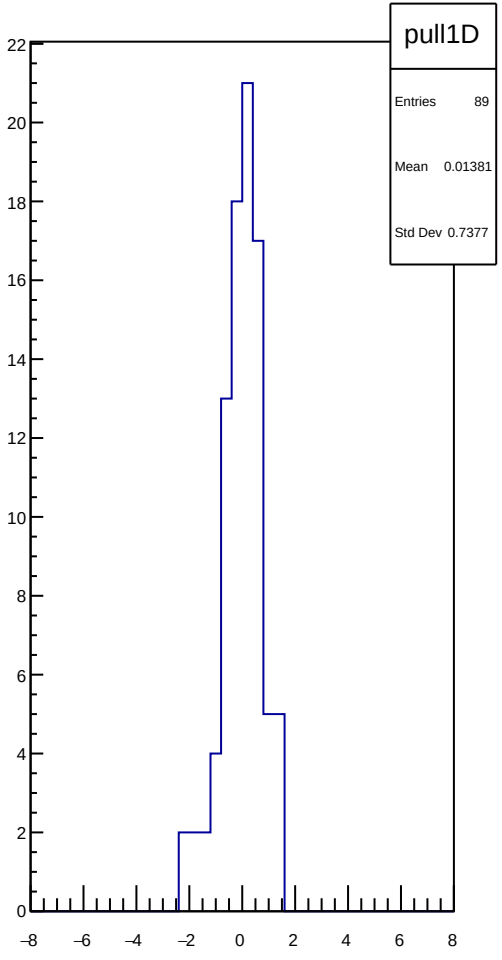

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 27.04 / 88
p0 31.71 ± 6.776
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −162.7
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean 0.01058
Std Dev 0.5511
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

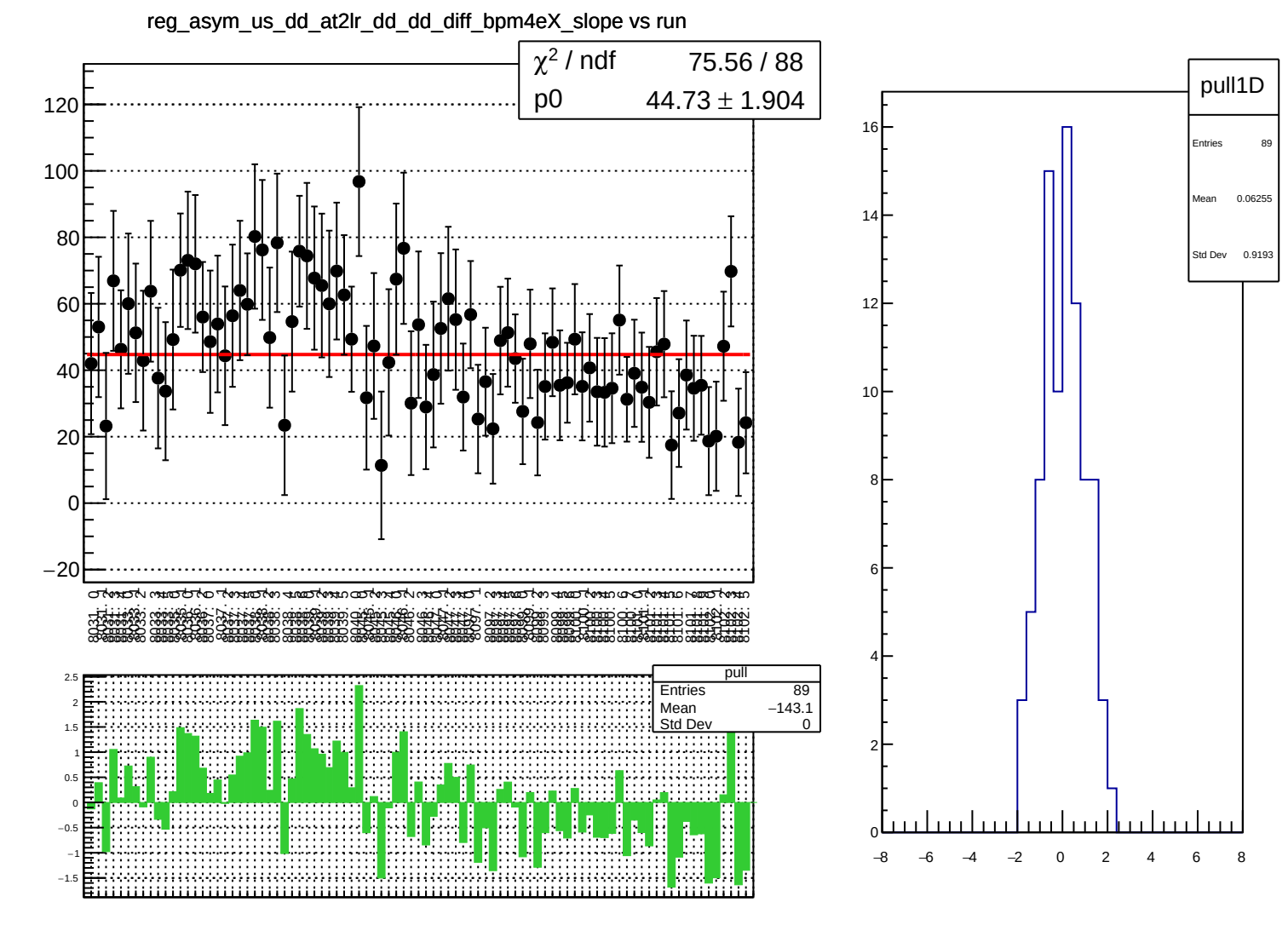

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 340.8 / 88
p0 20.29 ± 0.3207
pull
Entries 89
Mean −32.67
Std Dev 0
pull1D
Entries 89
Mean 0.5267
Std Dev 1.885

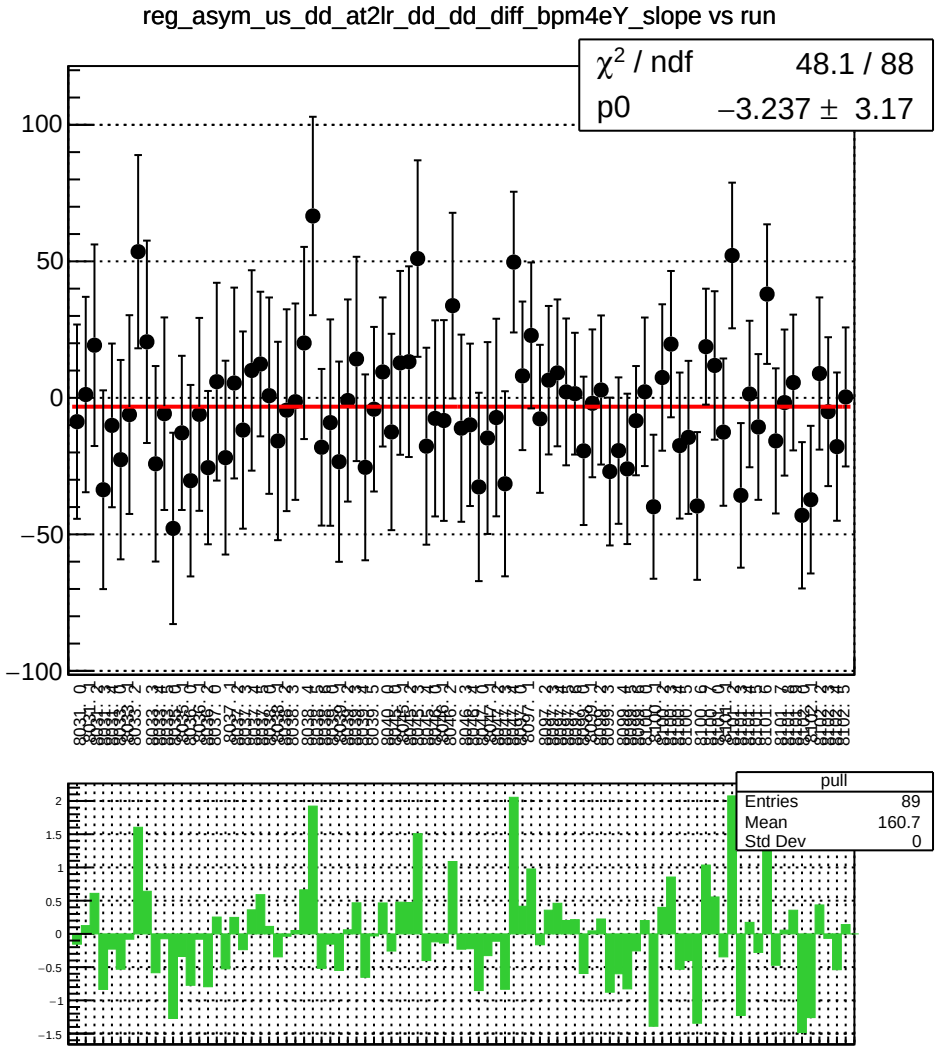

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 88.78 / 88
p0 −25.67 ± 1.835
pull
Entries 89
Mean −609
Std Dev 0

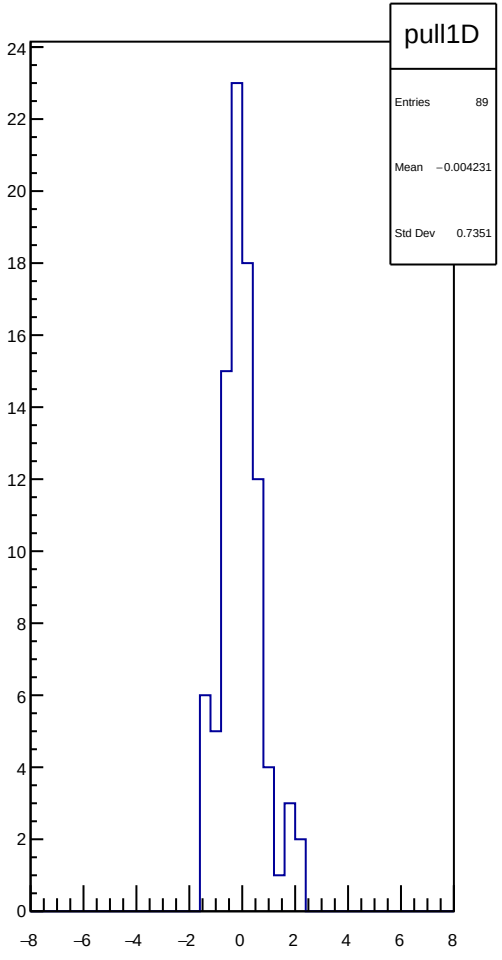

pull1D
Entries 89
Mean −0.02256
Std Dev 0.9985

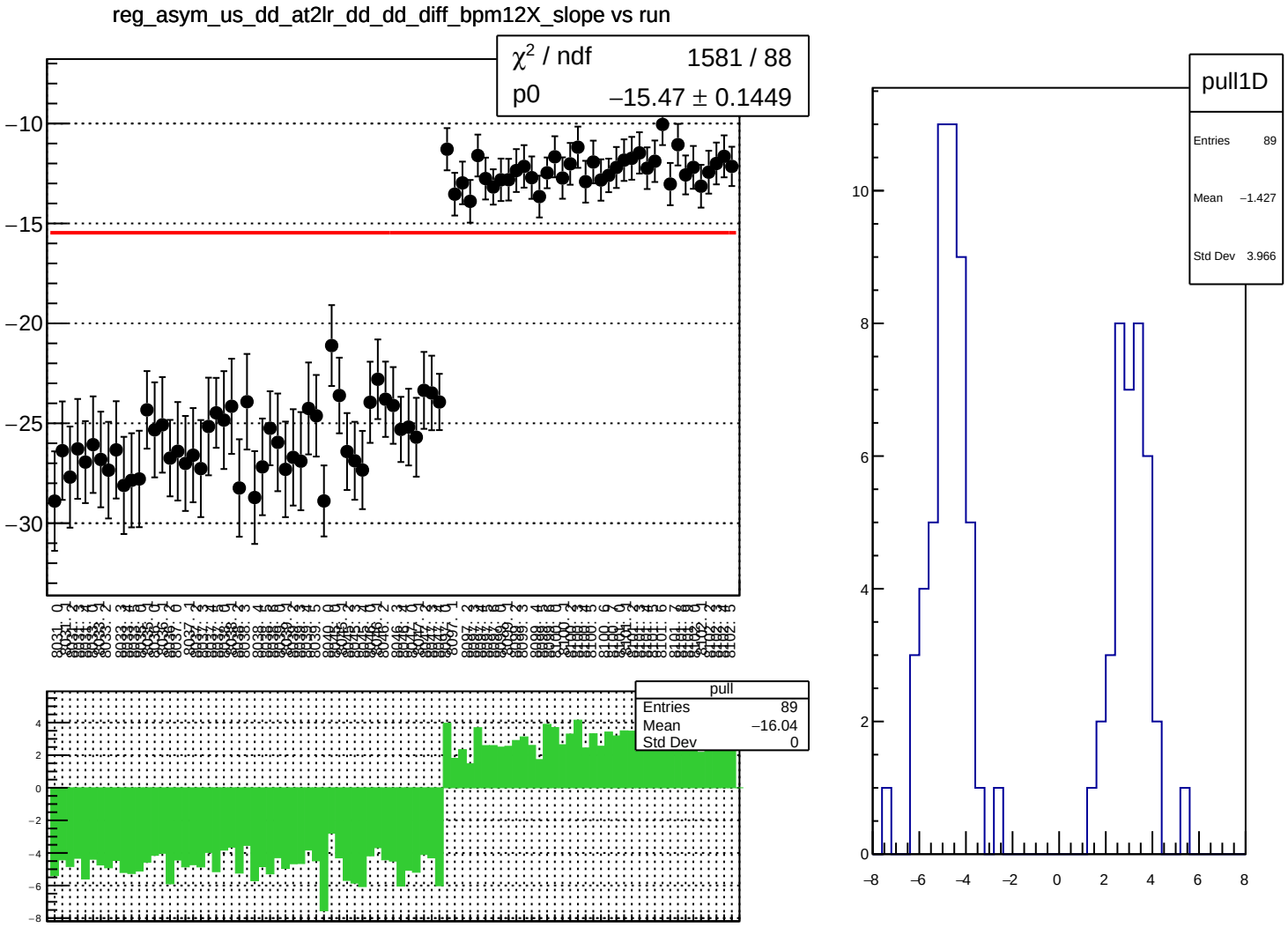

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 48.46 / 88
p0 11.16 ± 2.979
pull
Entries 89
Mean −27.14
Std Dev 0

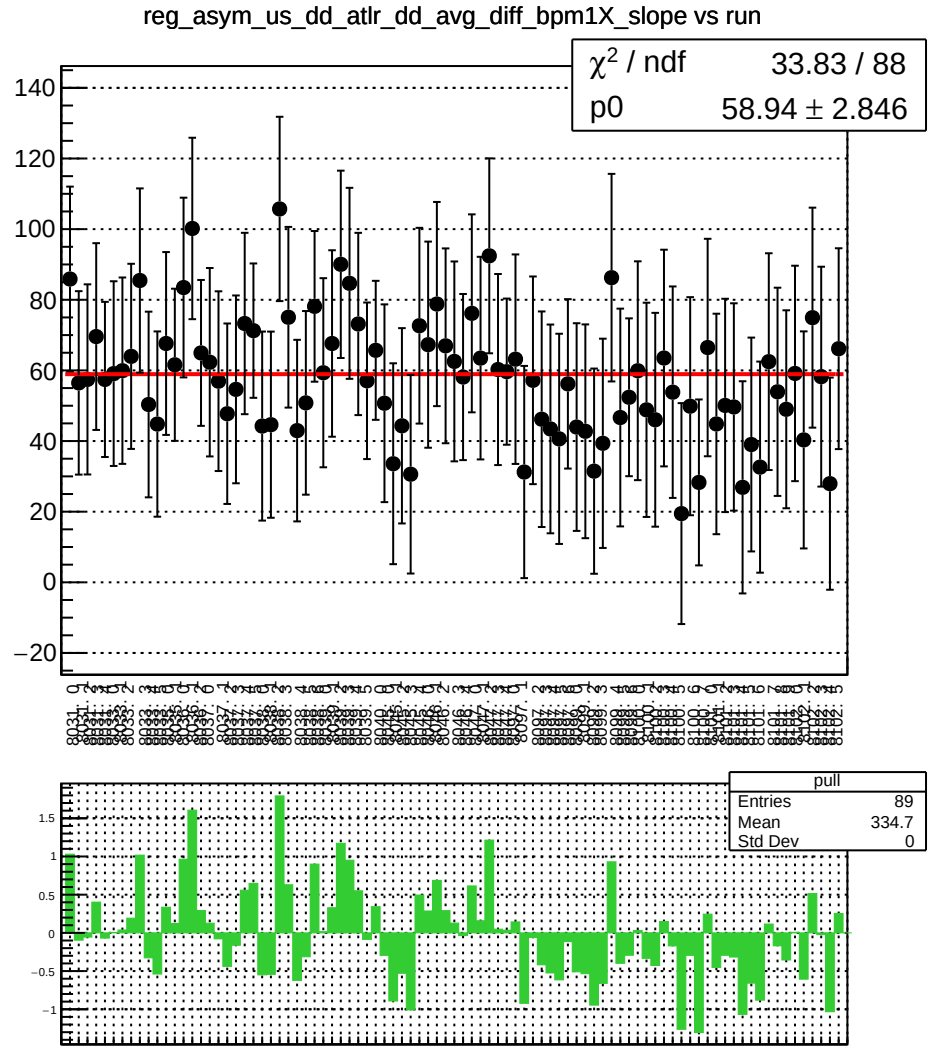

pull1D
Entries 89
Mean 0.01381
Std Dev 0.7377

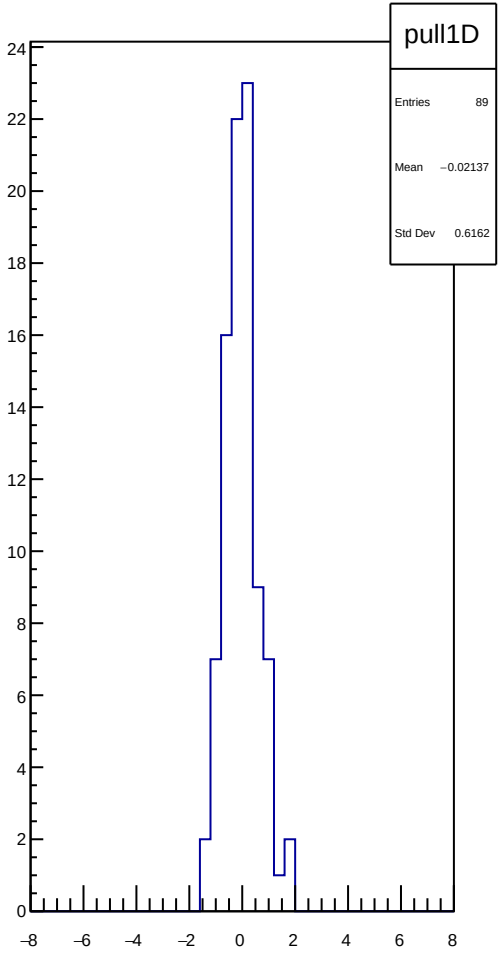

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 75.56 / 88
p0 44.73 ± 1.904
pull
Entries 89
Mean −143.1
Std Dev 0
pull1D
Entries 89
Mean 0.06255
Std Dev 0.9193

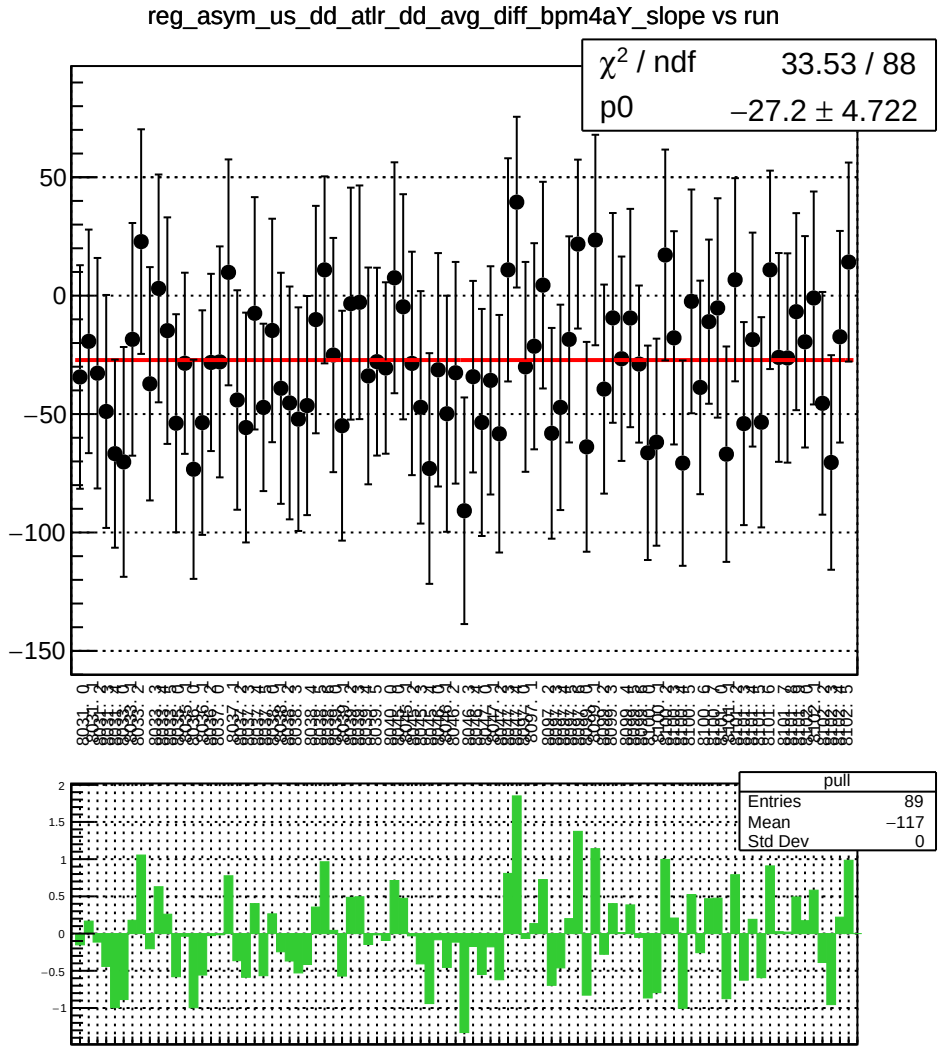

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 48.1 / 88
p0 −3.237 ± 3.17
100
50
0
−50
−100
pull
Entries 89
Mean 160.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

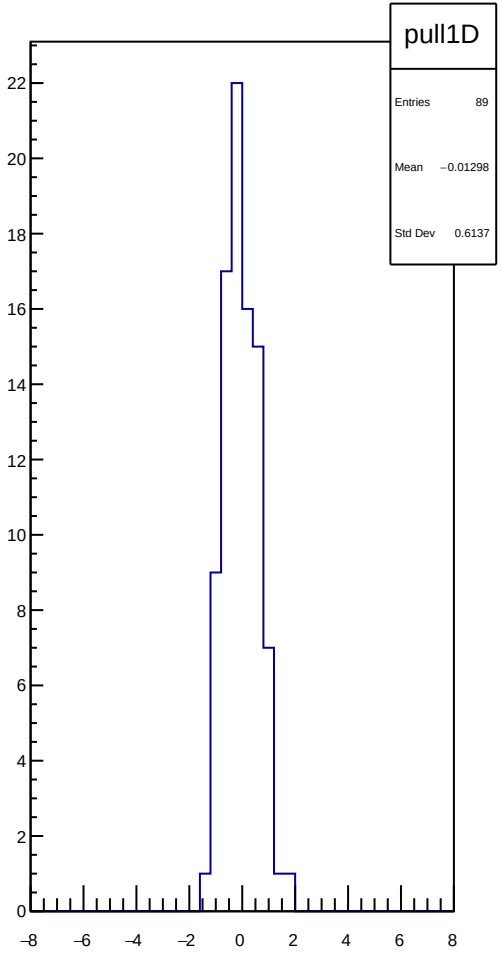

pull1D
Entries 89
Mean −0.004231
Std Dev 0.7351
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

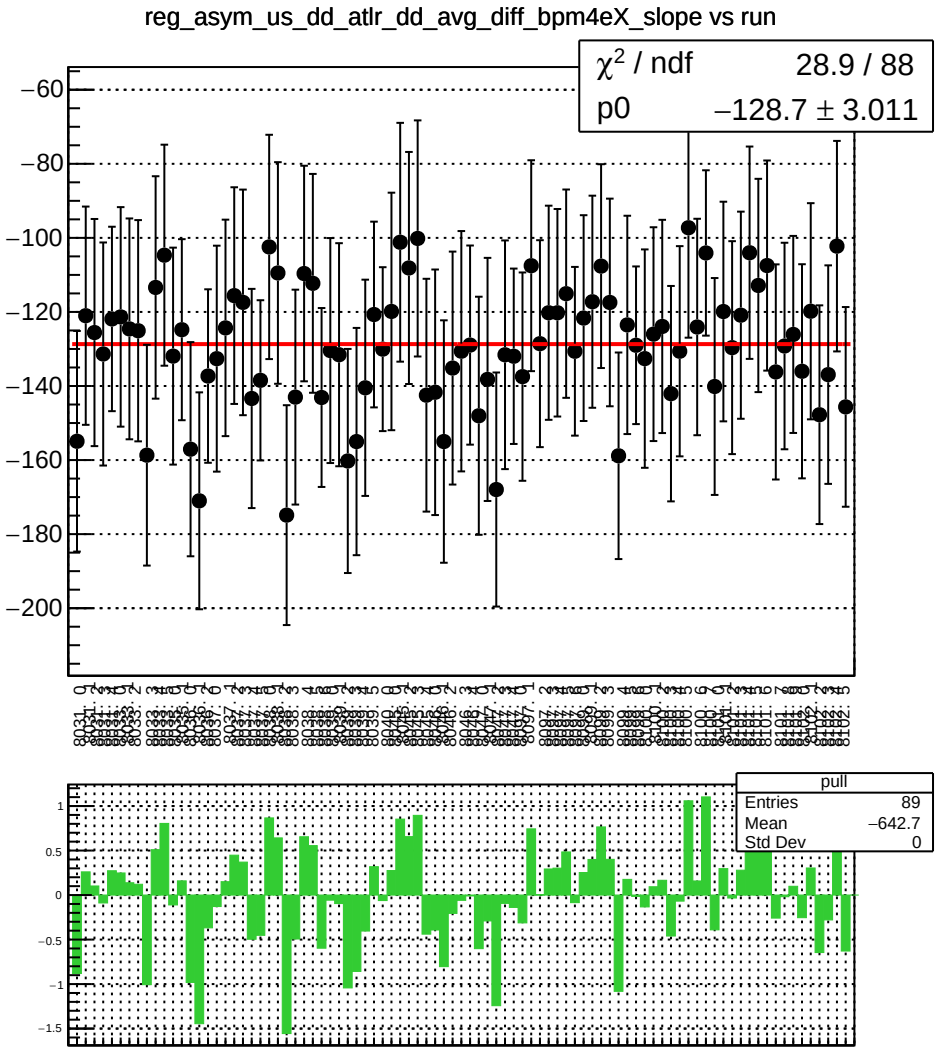

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 1581 / 88
p0 −15.47 ± 0.1449
pull
Entries 89
Mean −16.04
Std Dev 0
pull1D
Entries 89
Mean −1.427
Std Dev 3.966

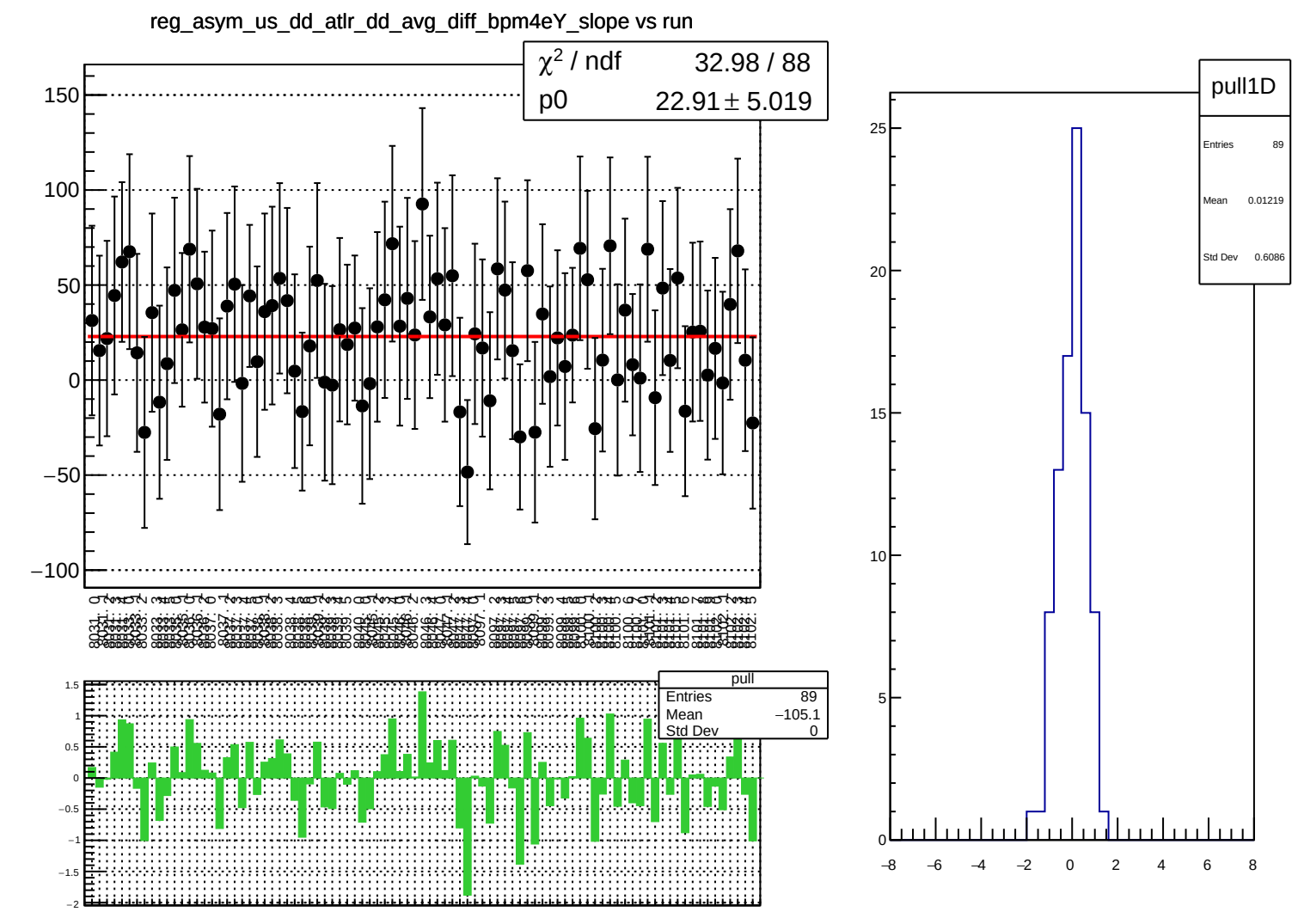

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 33.83 / 88
p0 58.94 ± 2.846
pull
Entries 89
Mean 334.7
Std Dev 0

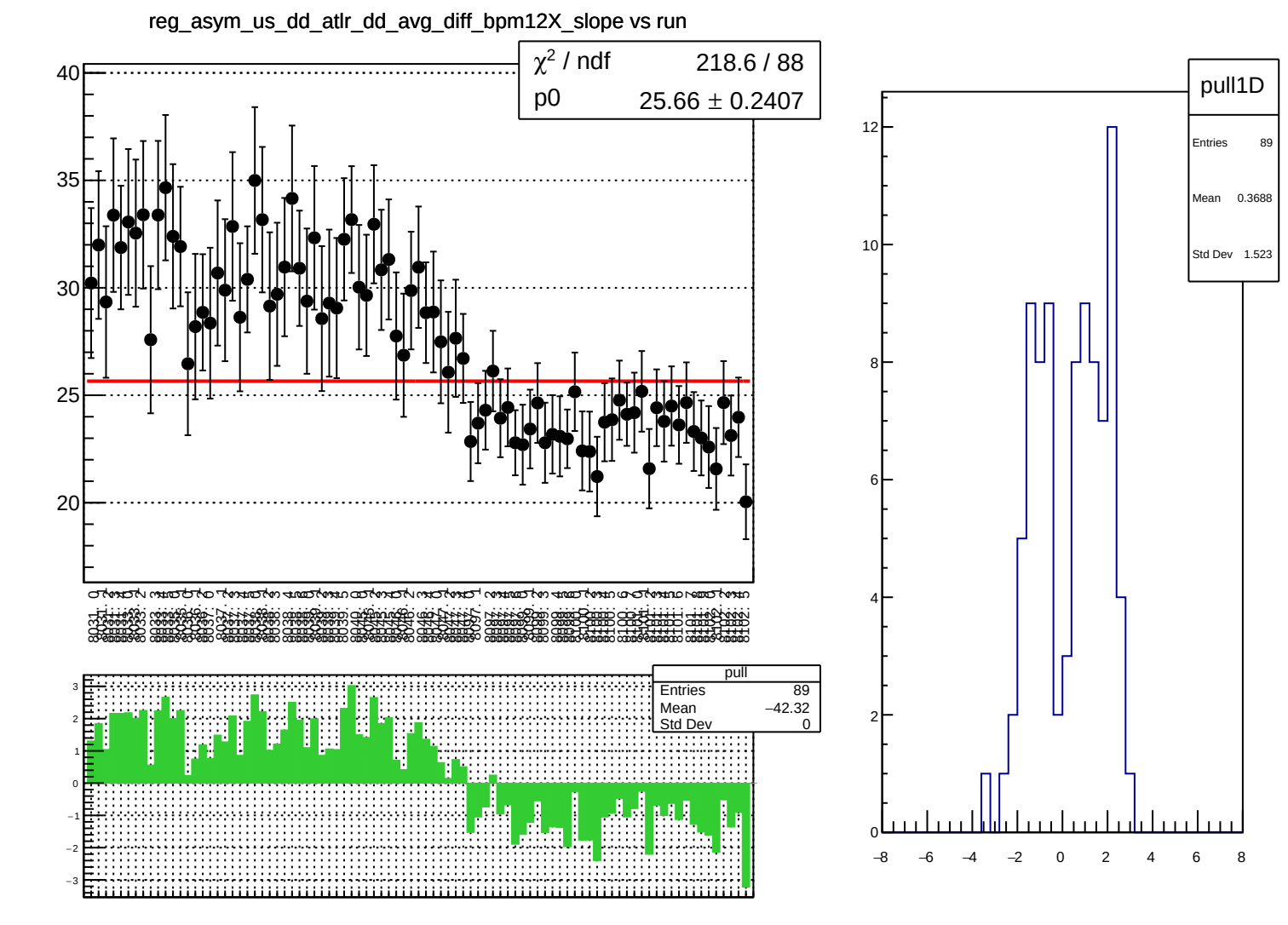

pull1D
Entries 89
Mean −0.02137
Std Dev 0.6162

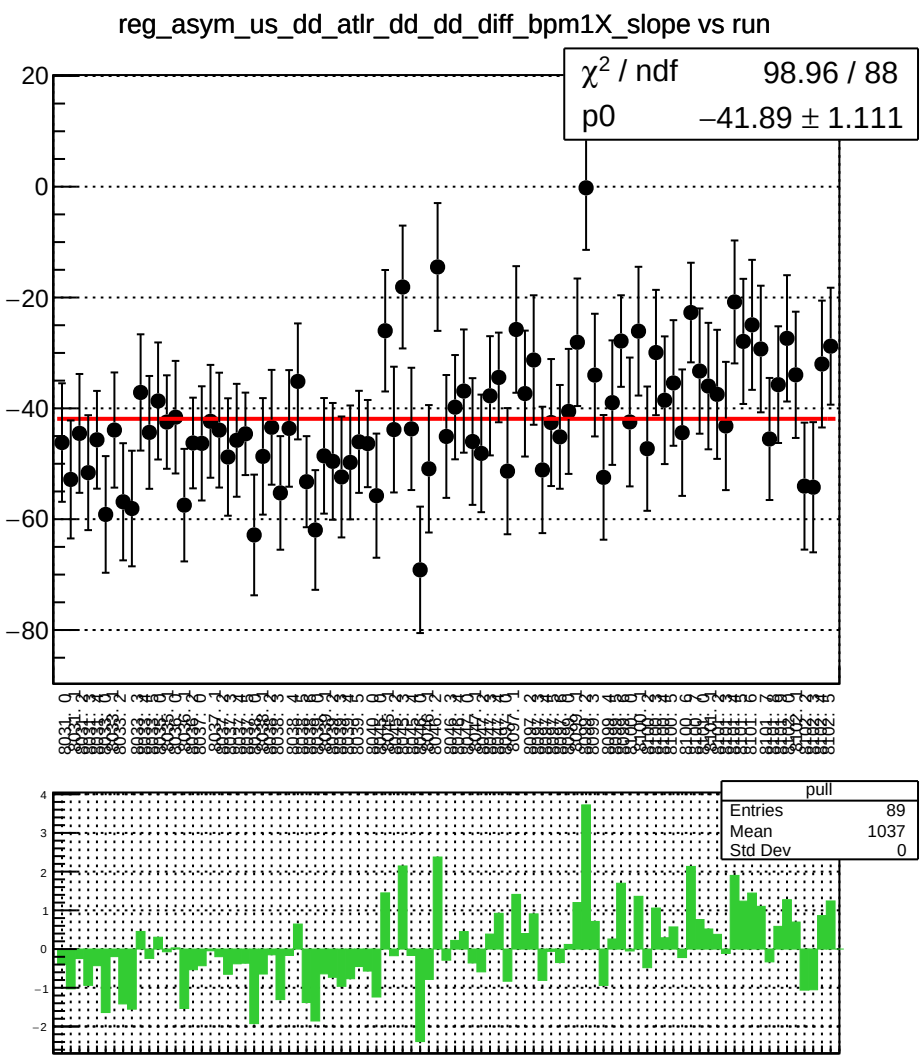

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 33.53 / 88
p0 −27.2 ± 4.722
50
0
−50
−100
−150
pull
Entries 89
Mean −117
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

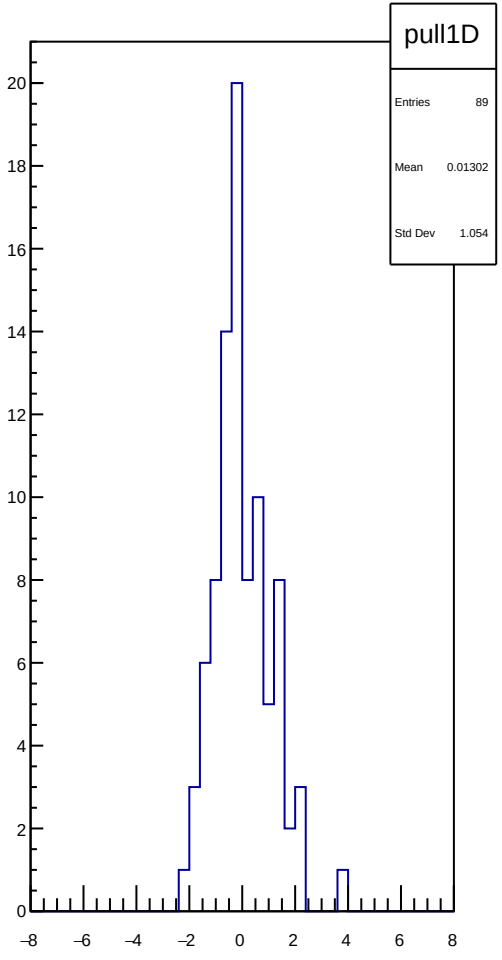

pull1D
Entries 89
Mean −0.01298
Std Dev 0.6137
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

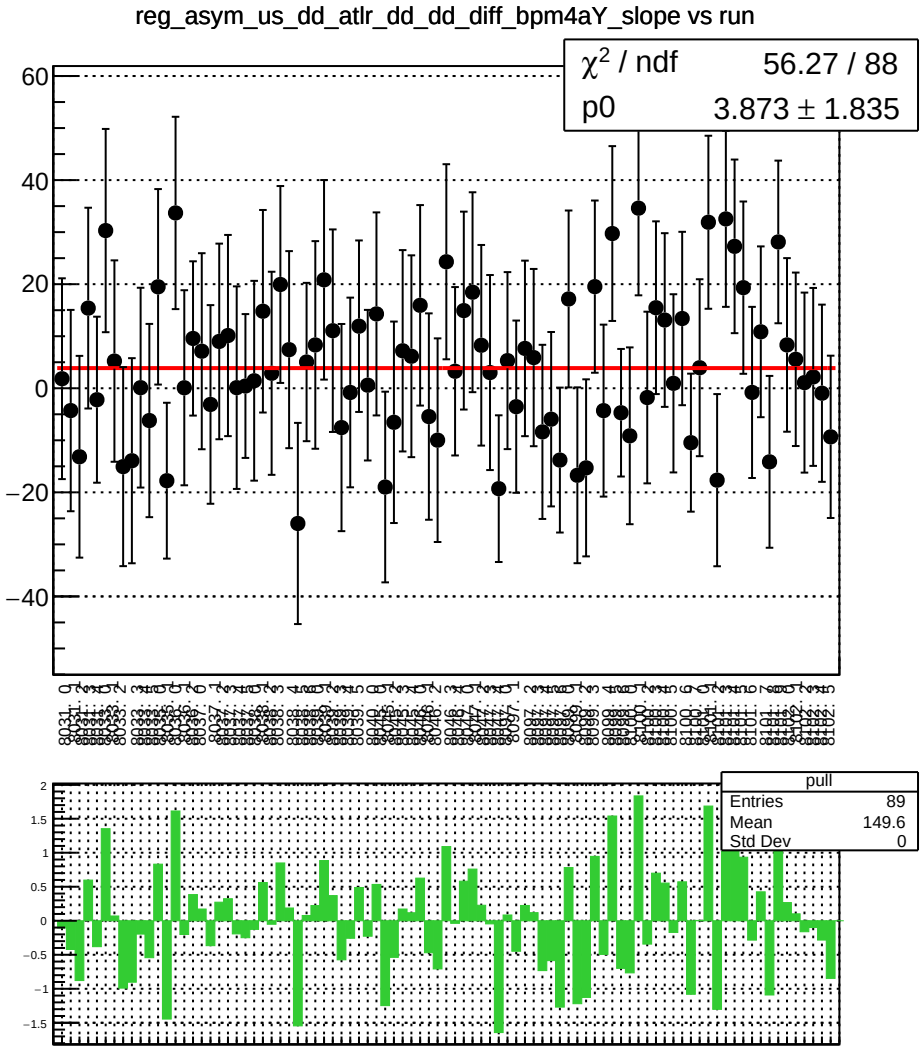

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 28.9 / 88
p0 −128.7 ± 3.011
pull
Entries 89
Mean −642.7
Std Dev 0
pull1D
Entries 89
Mean −0.003342
Std Dev 0.5698

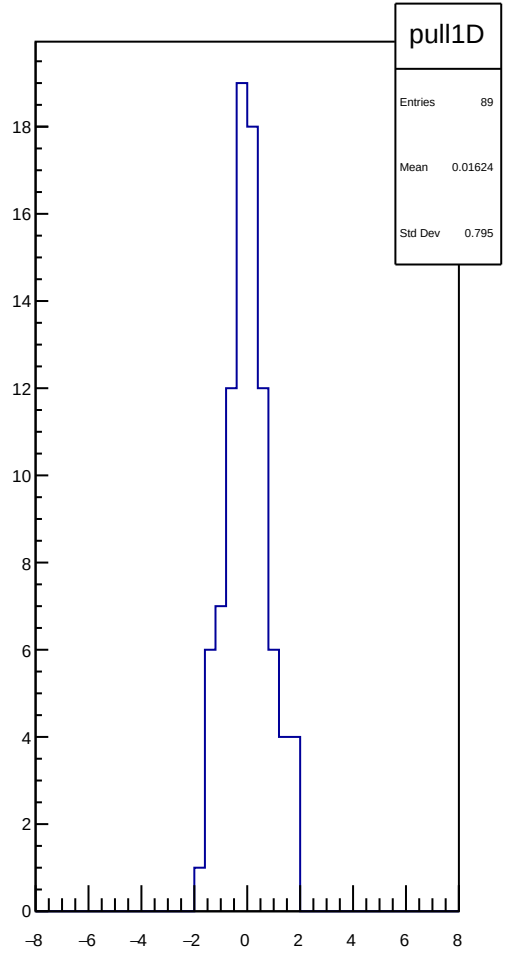

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 32.98 / 88
p0 22.91 ± 5.019
150
100
50
0
−50
−100
pull
Entries 89
Mean −105.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean 0.01219
Std Dev 0.6086
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

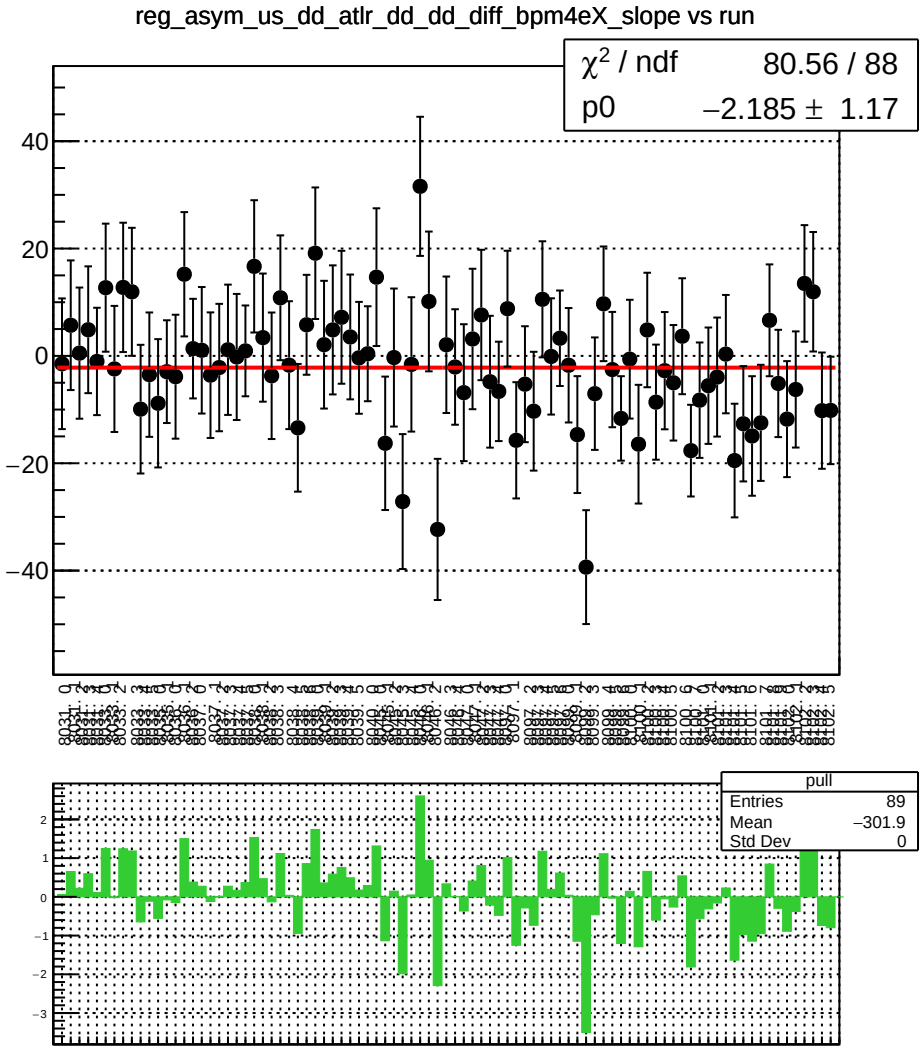

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 218.6 / 88
p0 25.66 ± 0.2407
40
35
30
25
20
pull
Entries 89
Mean −42.32
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.3688
Std Dev 1.523
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

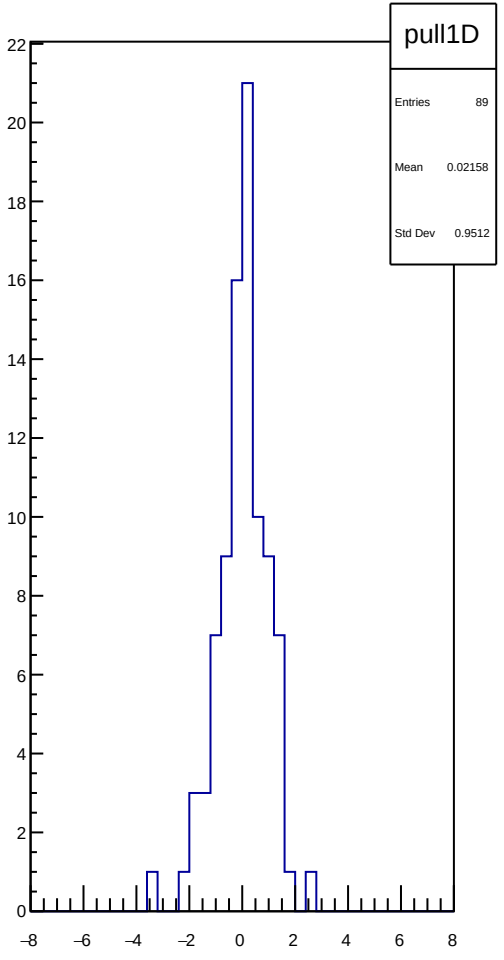

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 98.96 / 88
p0 −41.89 ± 1.111
pull
Entries 89
Mean 1037
Std Dev 0

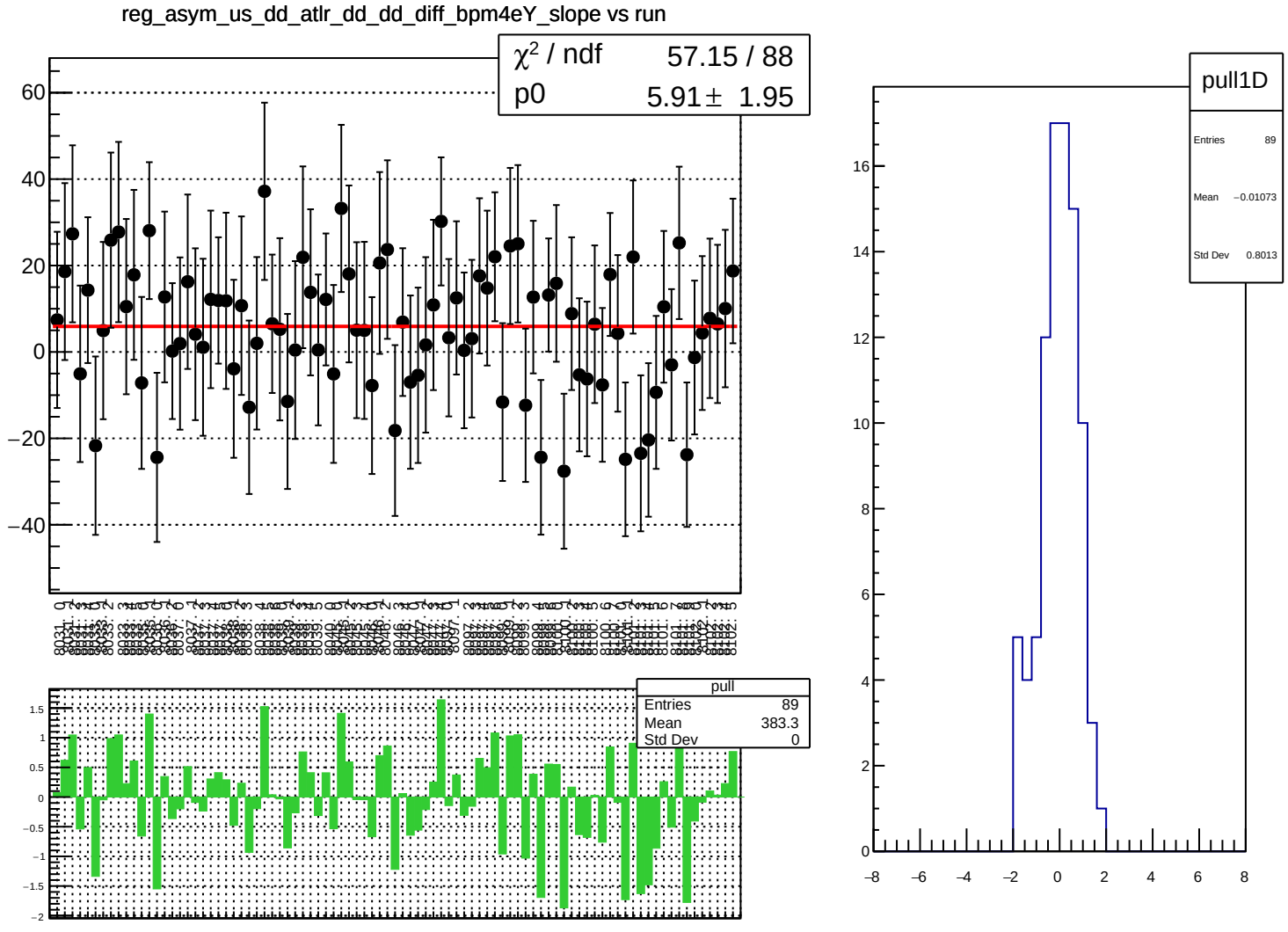

pull1D
Entries 89
Mean 0.01302
Std Dev 1.054

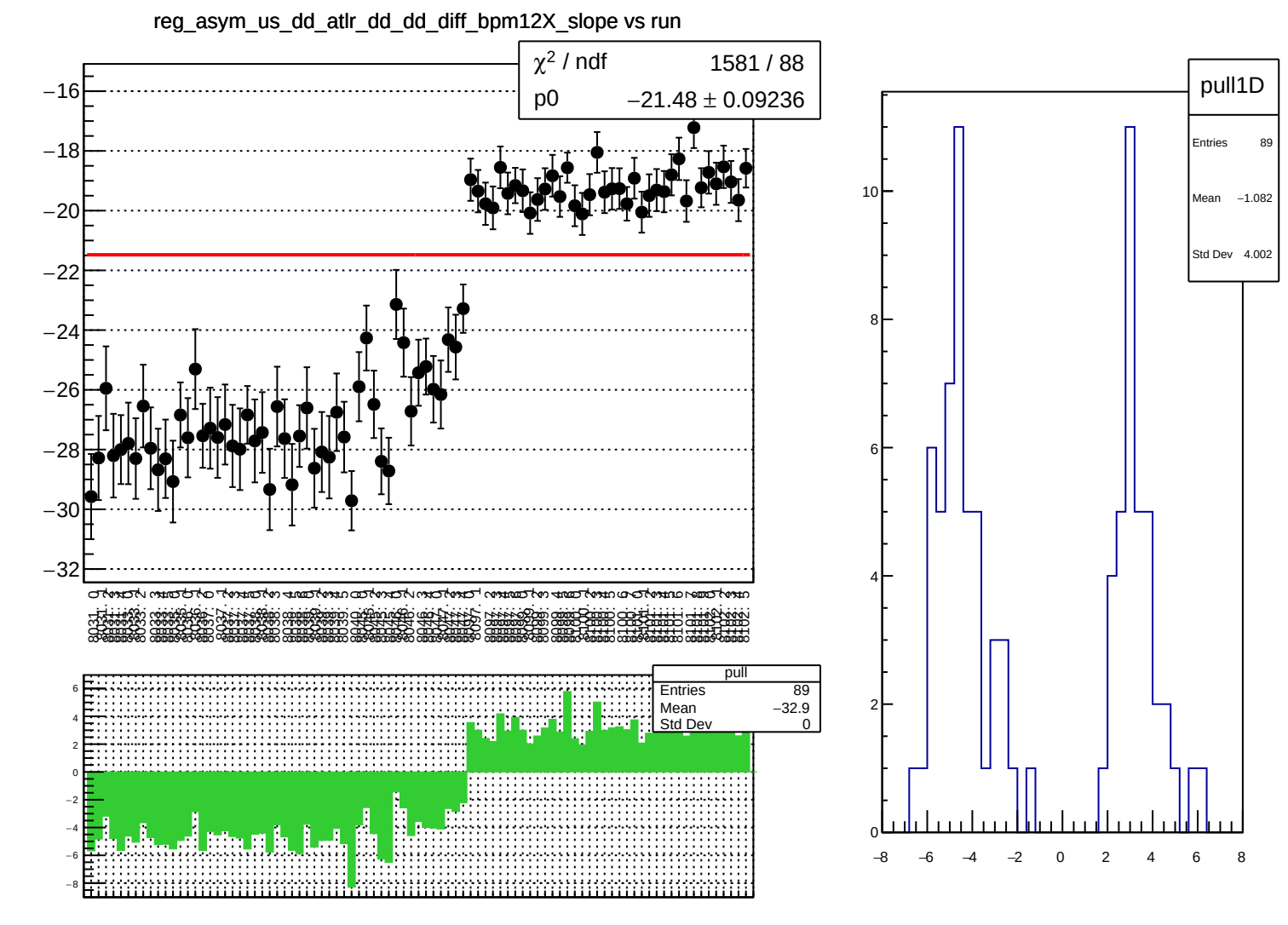

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 56.27 / 88
p0 3.873 ± 1.835
pull
Entries 89
Mean 149.6
Std Dev 0

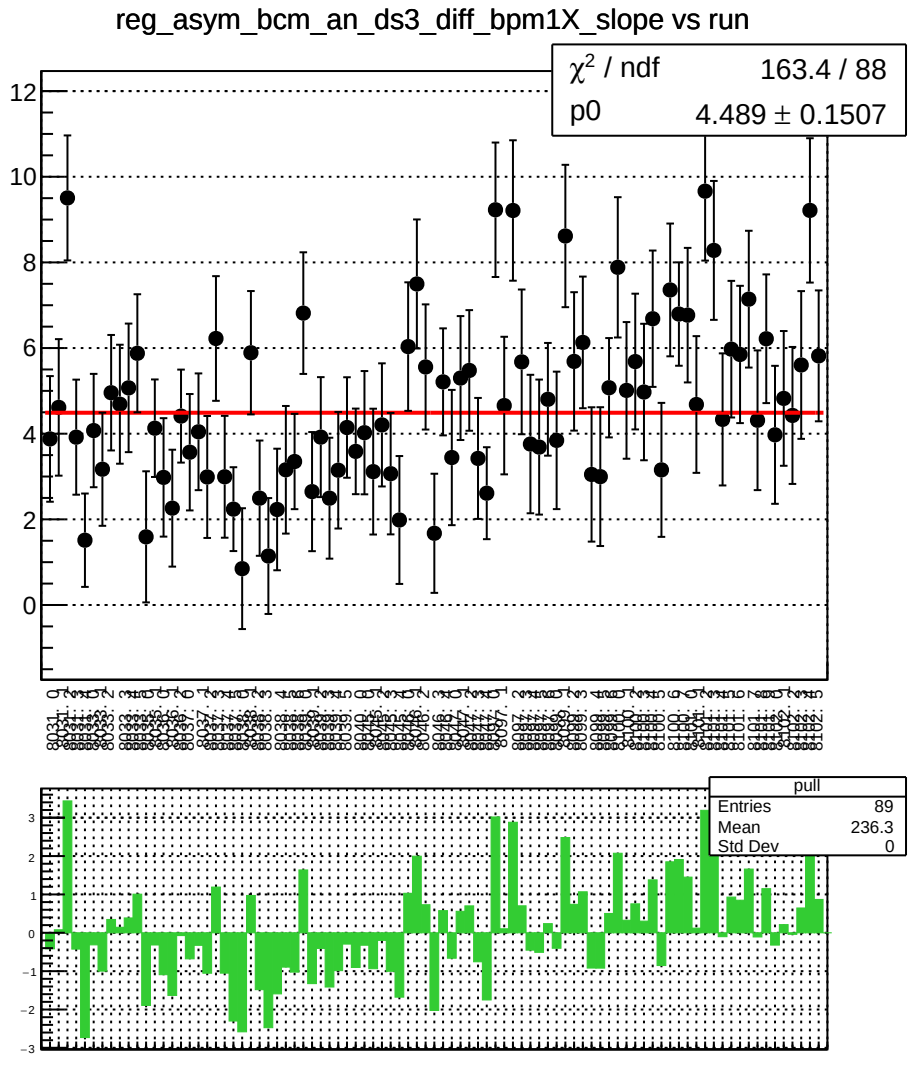

pull1D
Entries 89
Mean 0.01624
Std Dev 0.795

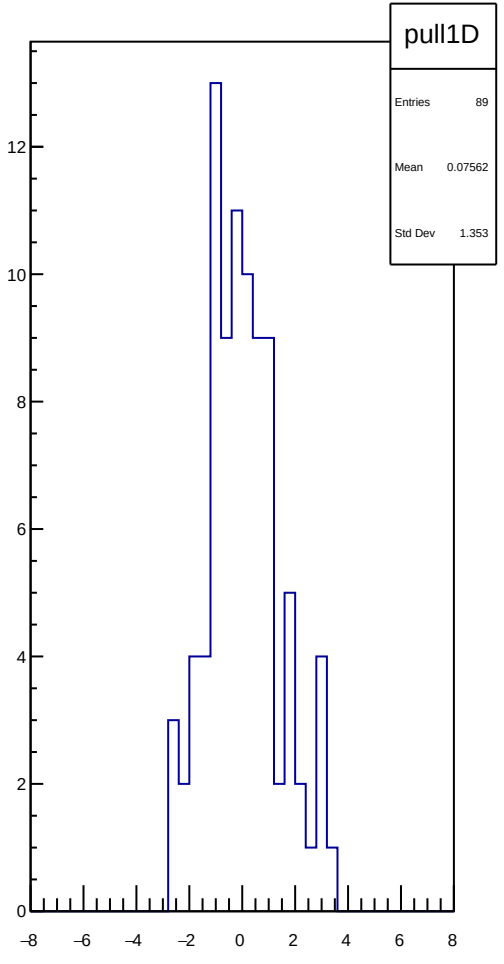

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 80.56 / 88
p0 −2.185 ± 1.17
pull
Entries 89
Mean −301.9
Std Dev 0

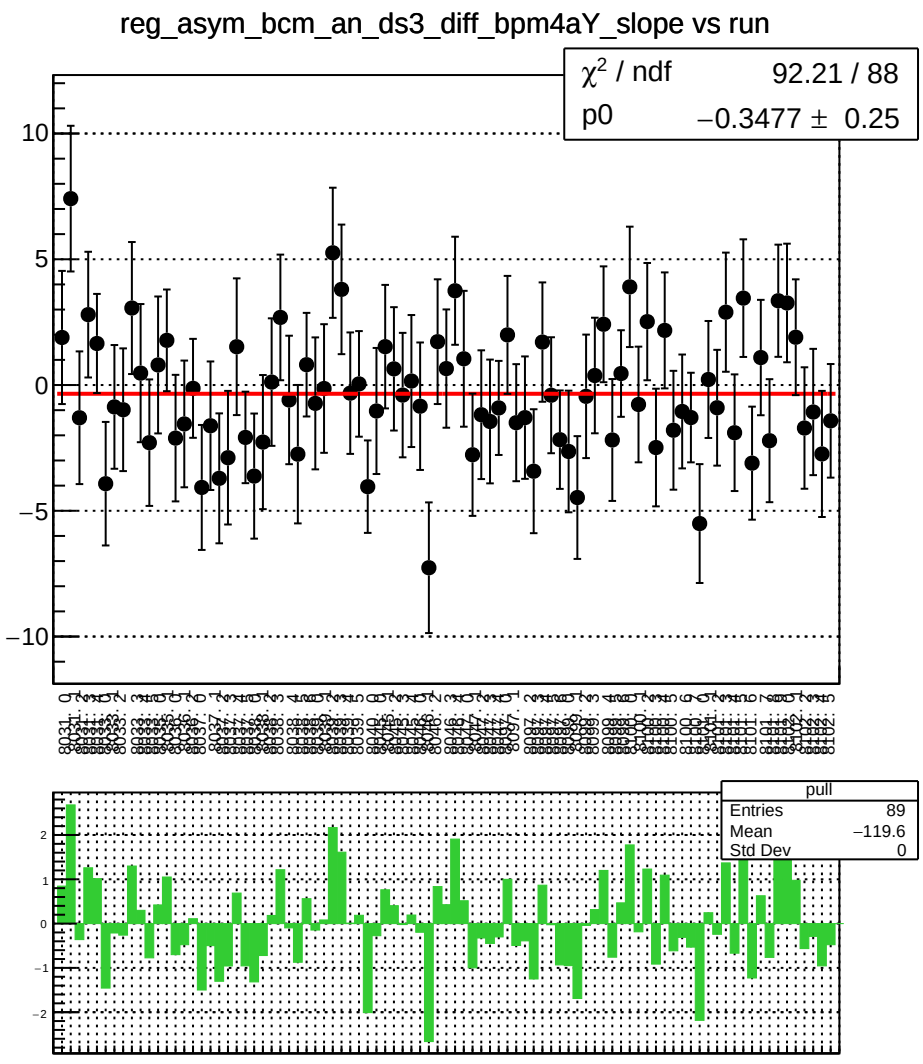

pull1D
Entries 89
Mean 0.02158
Std Dev 0.9512

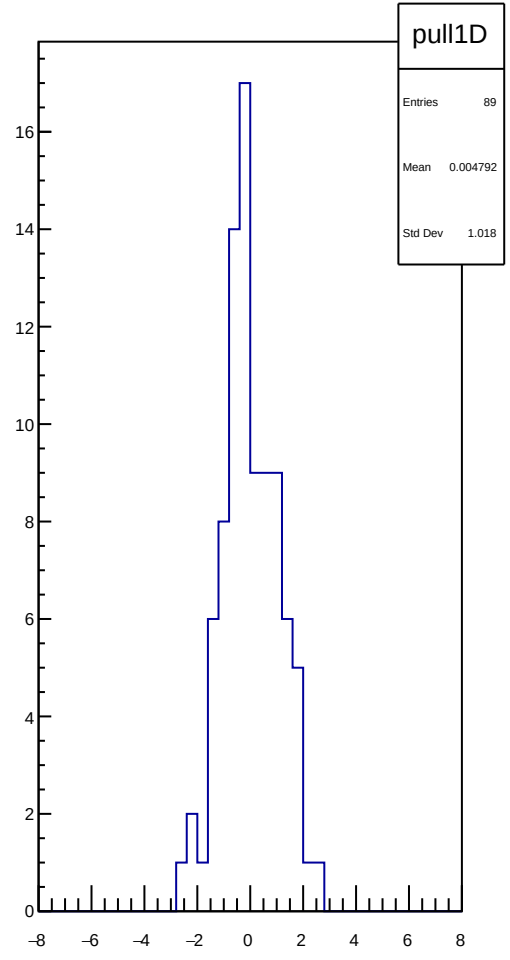

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 57.15 / 88
p0 5.91 ± 1.95
pull
Entries 89
Mean 383.3
Std Dev 0
pull1D
Entries 89
Mean −0.01073
Std Dev 0.8013

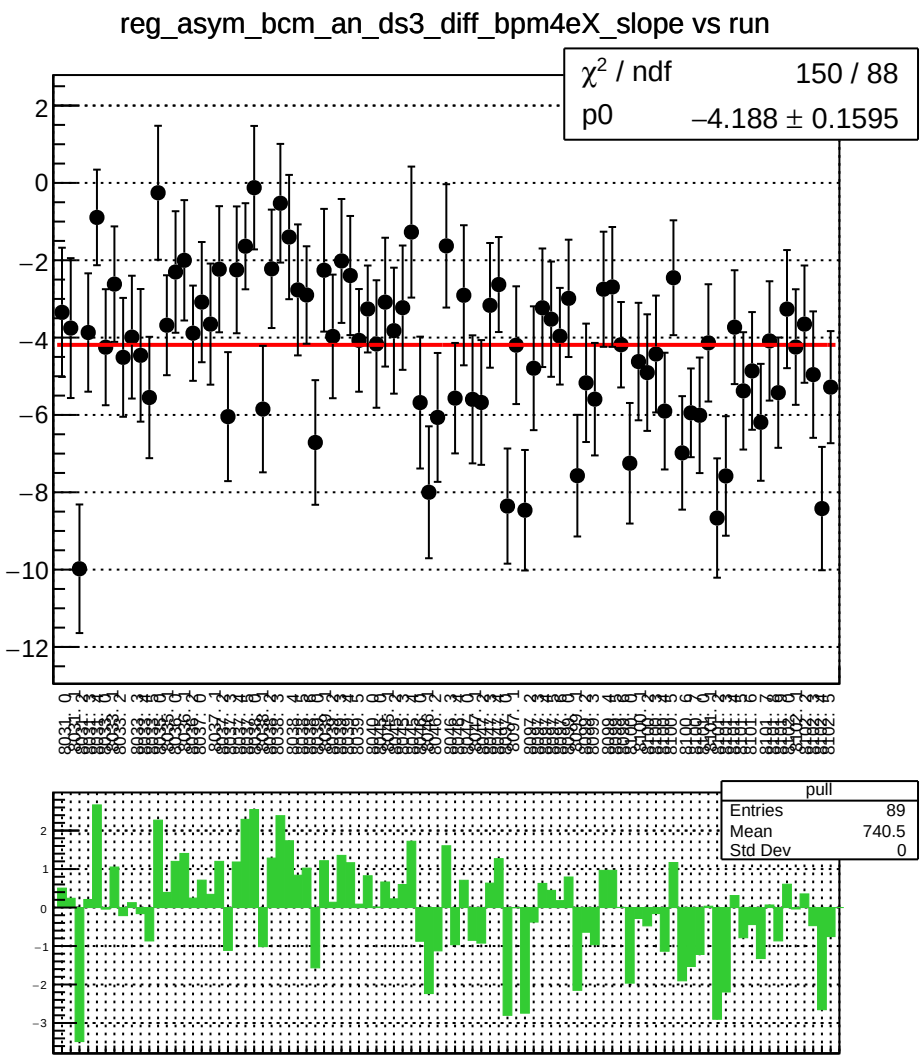

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 1581 / 88
p0 −21.48 ± 0.09236
pull
Entries 89
Mean −32.9
Std Dev 0
pull1D
Entries 89
Mean −1.082
Std Dev 4.002

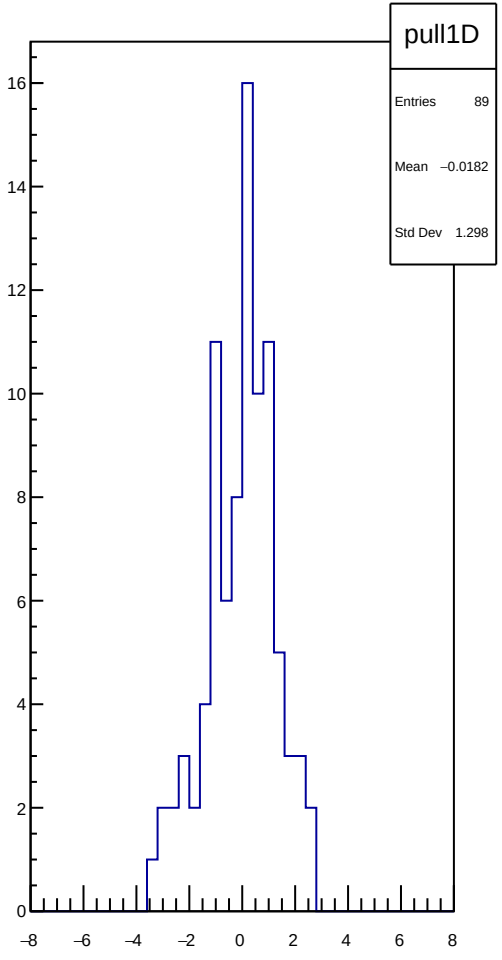

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 163.4 / 88
p0 4.489 ± 0.1507
pull
Entries 89
Mean 236.3
Std Dev 0

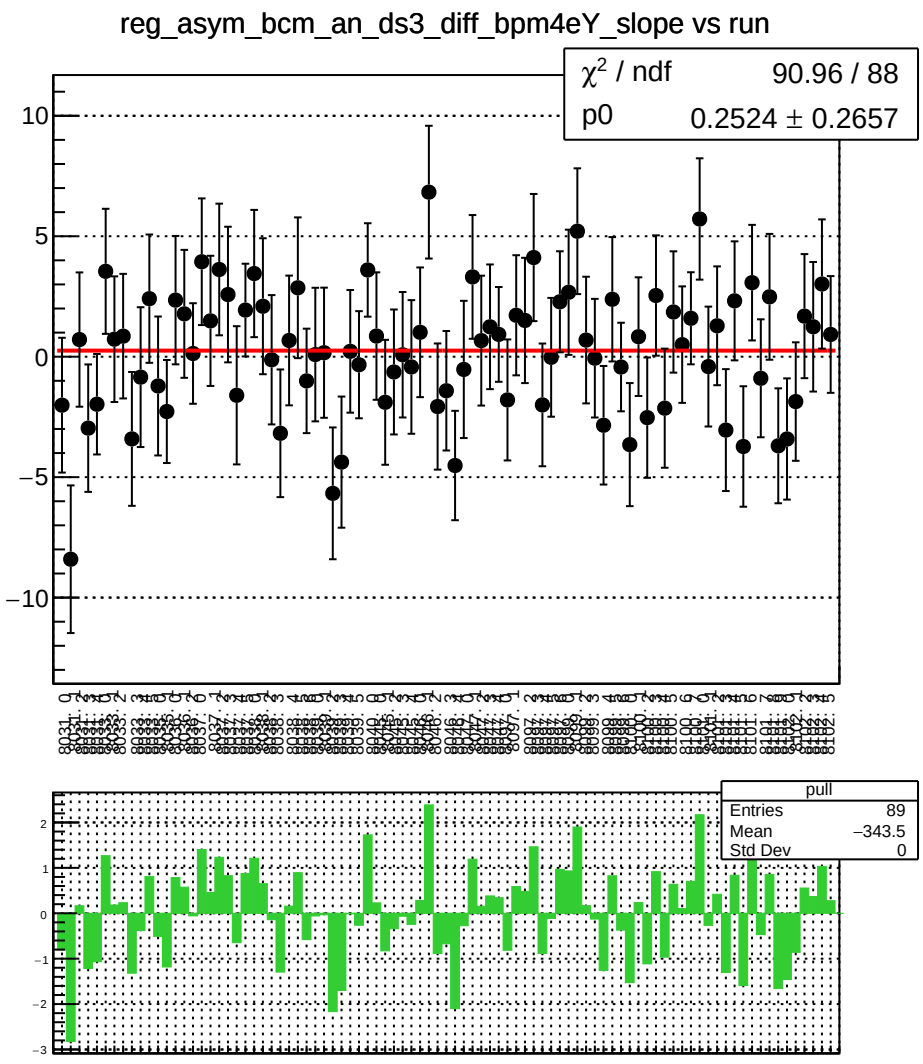

pull1D
Entries 89
Mean 0.07562
Std Dev 1.353

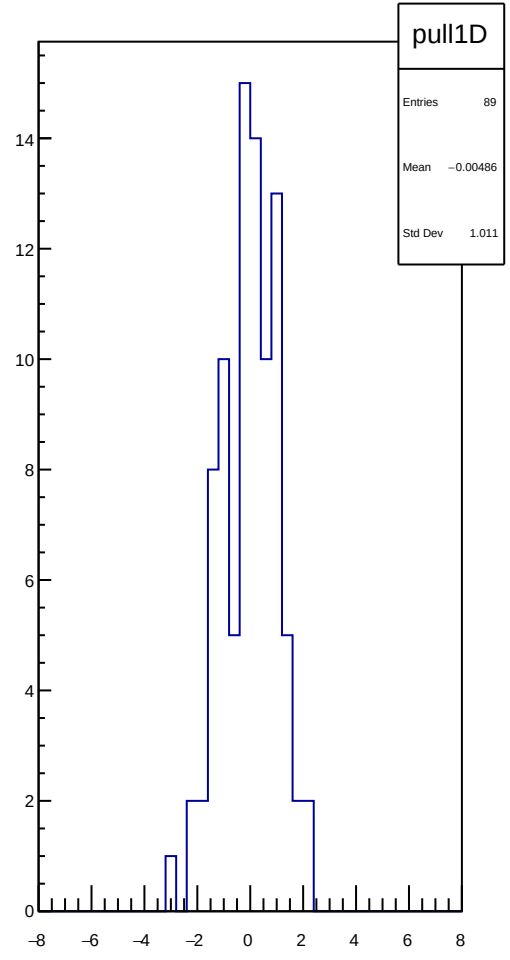

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 92.21 / 88
p0 −0.3477 ± 0.25
pull
Entries 89
Mean −119.6
Std Dev 0

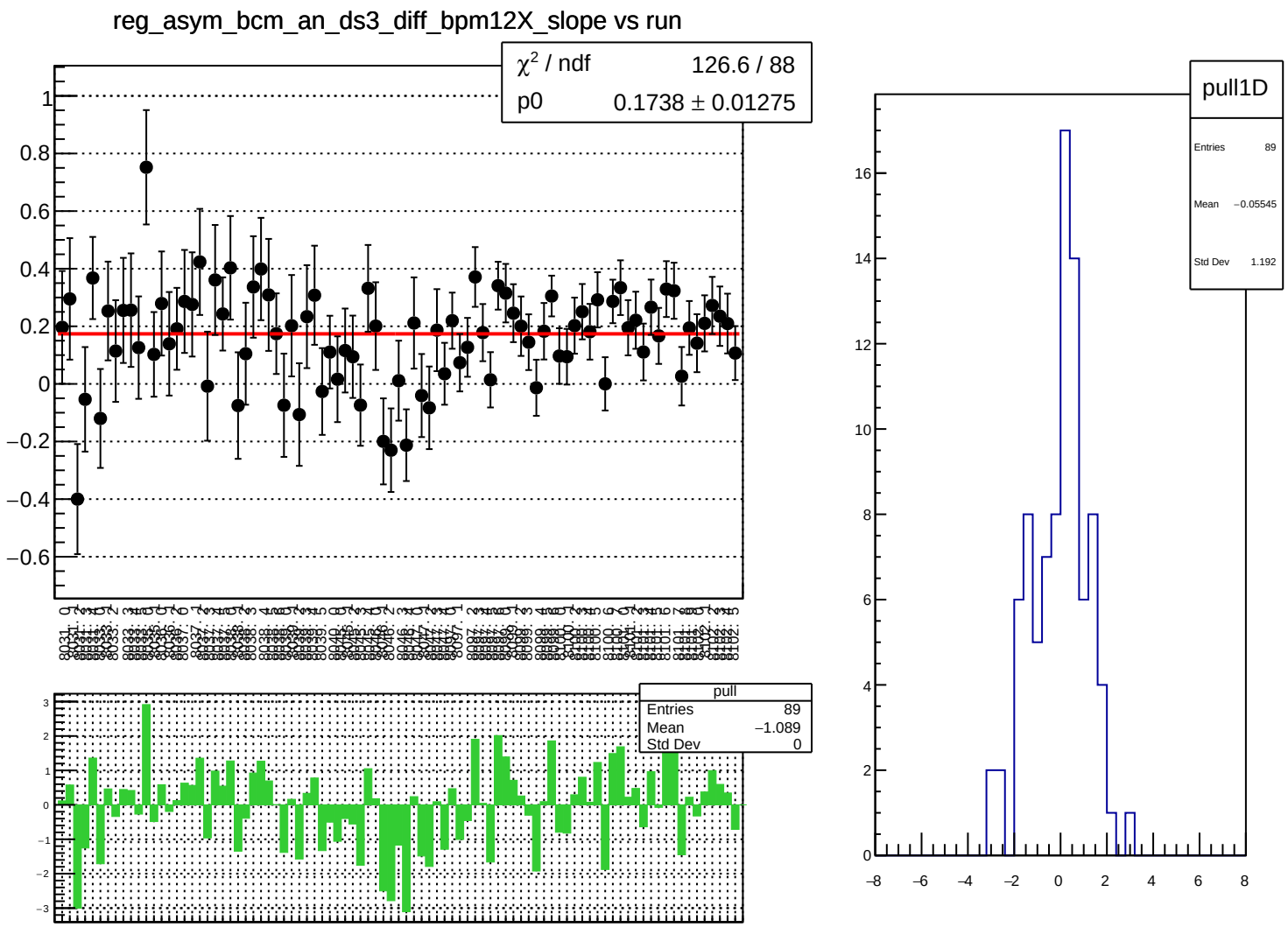

pull1D
Entries 89
Mean 0.004792
Std Dev 1.018

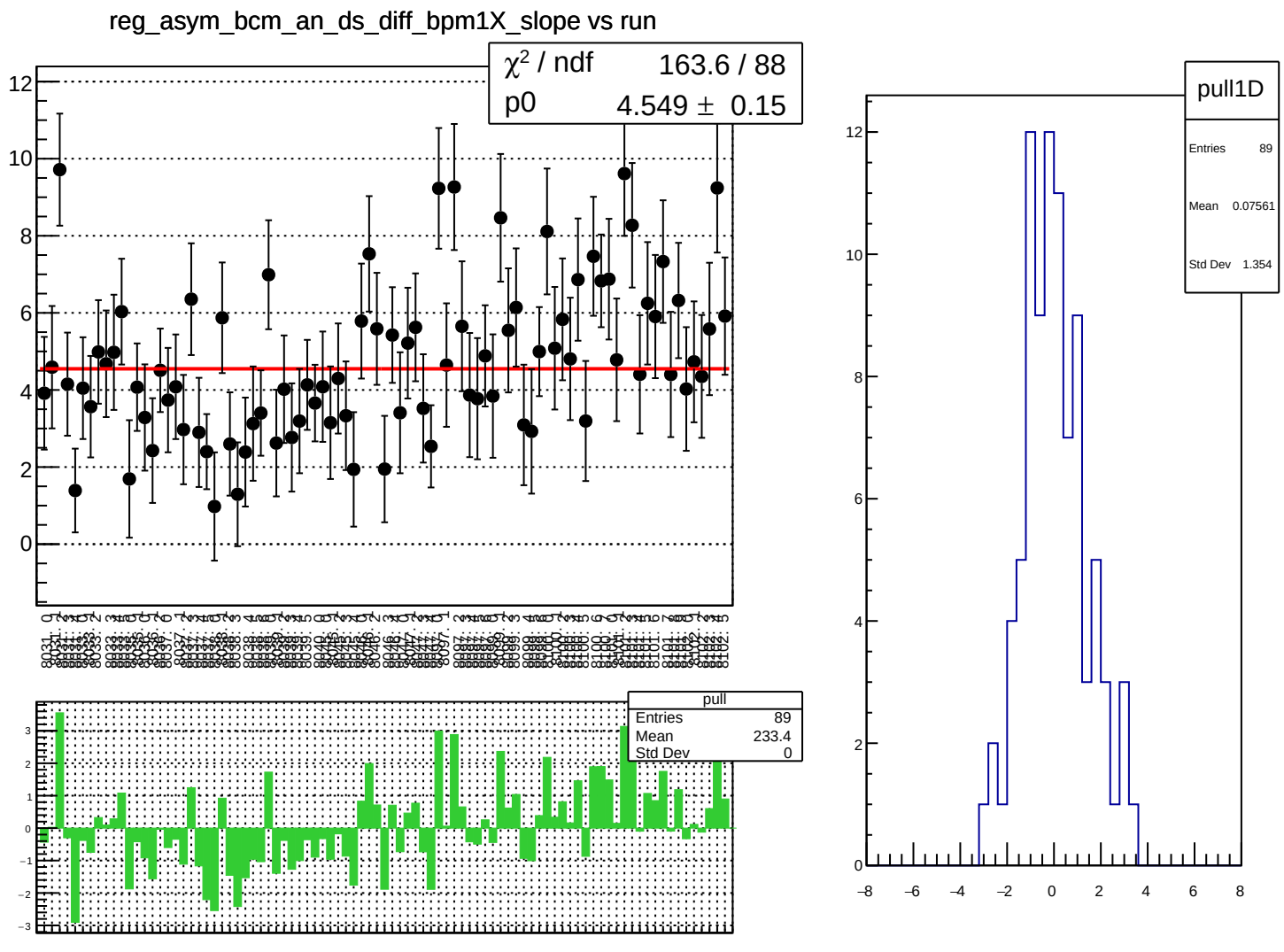

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 150 / 88
p0 −4.188 ± 0.1595
pull
Entries 89
Mean 740.5
Std Dev 0

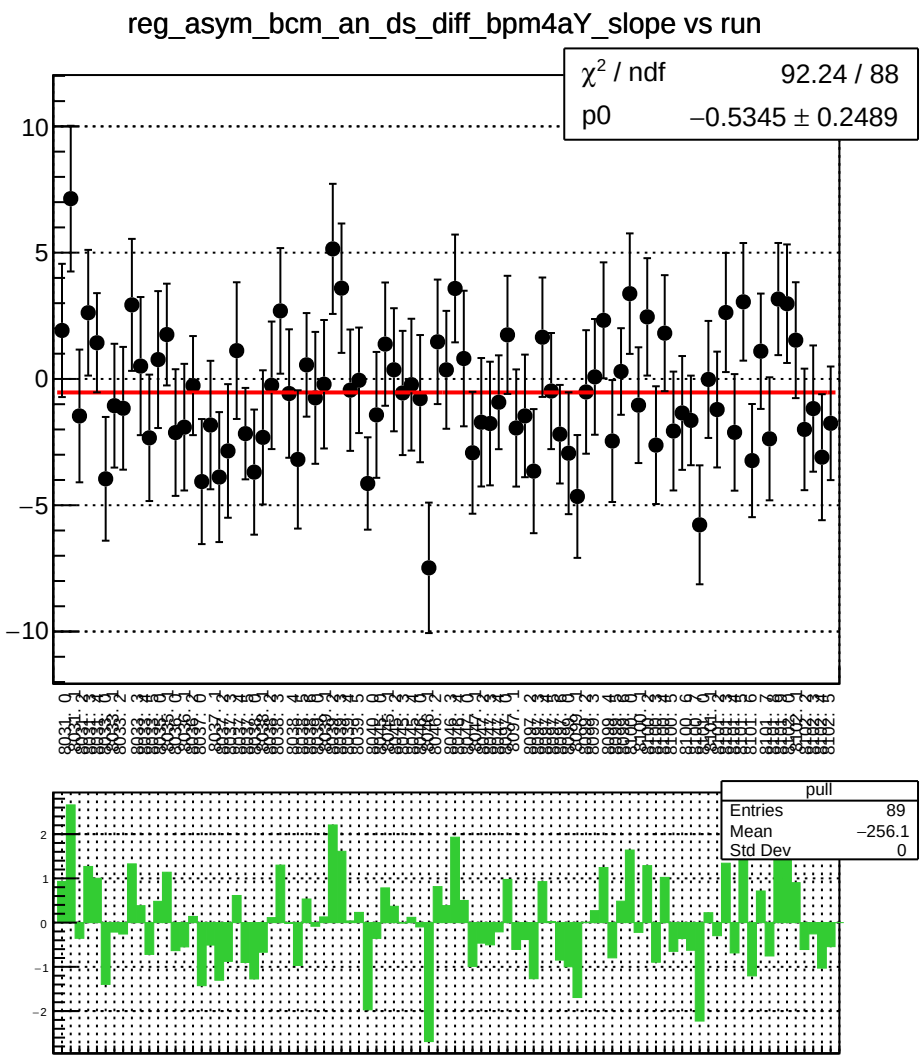

pull1D
Entries 89
Mean −0.0182
Std Dev 1.298

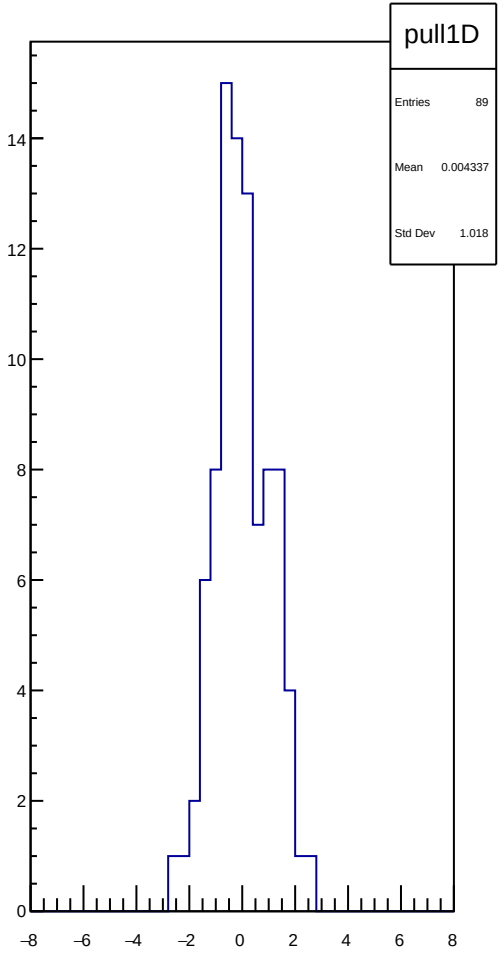

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 90.96 / 88
p0 0.2524 ± 0.2657
pull
Entries 89
Mean −343.5
Std Dev 0

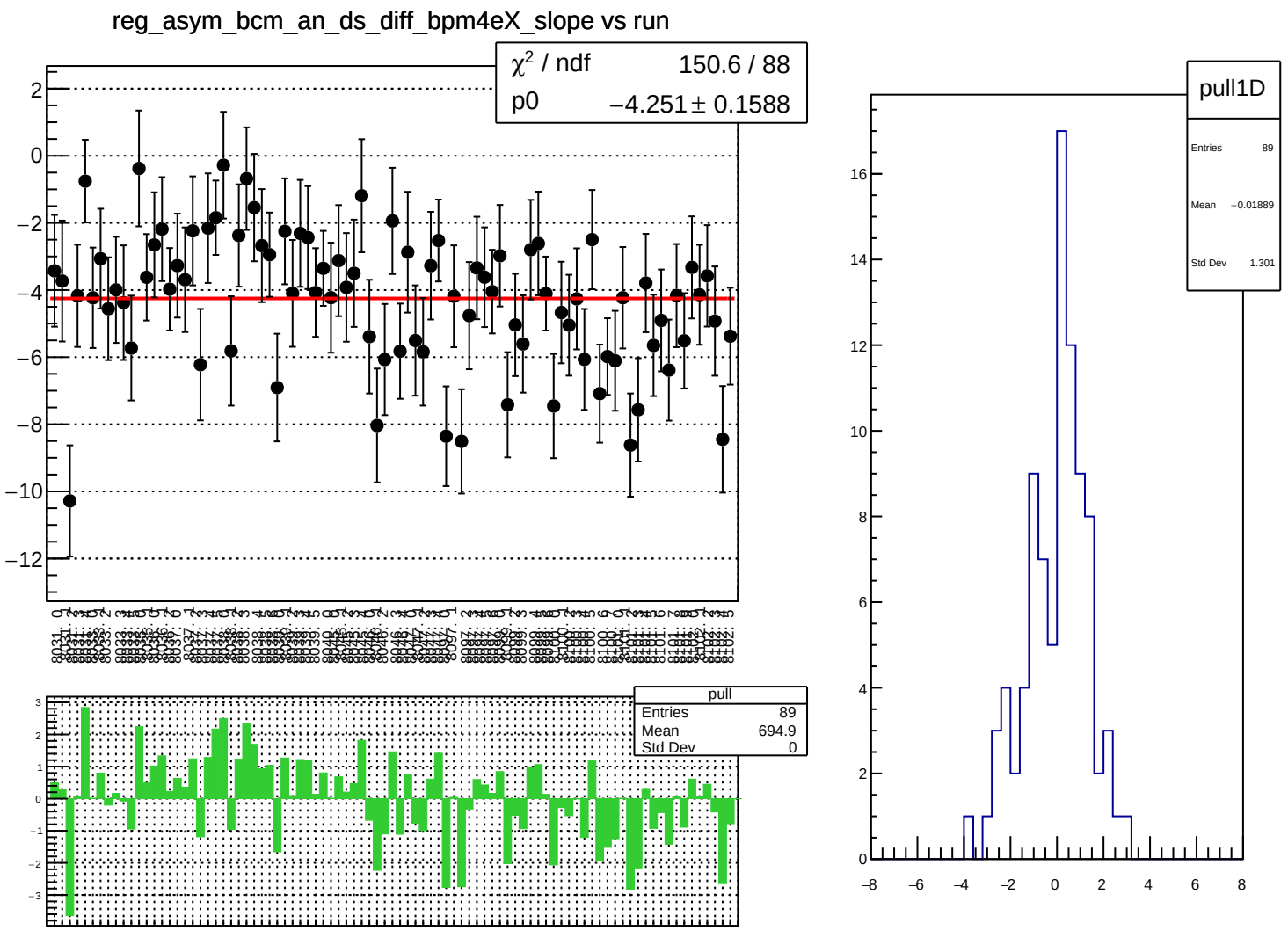

pull1D
Entries 89
Mean −0.00486
Std Dev 1.011

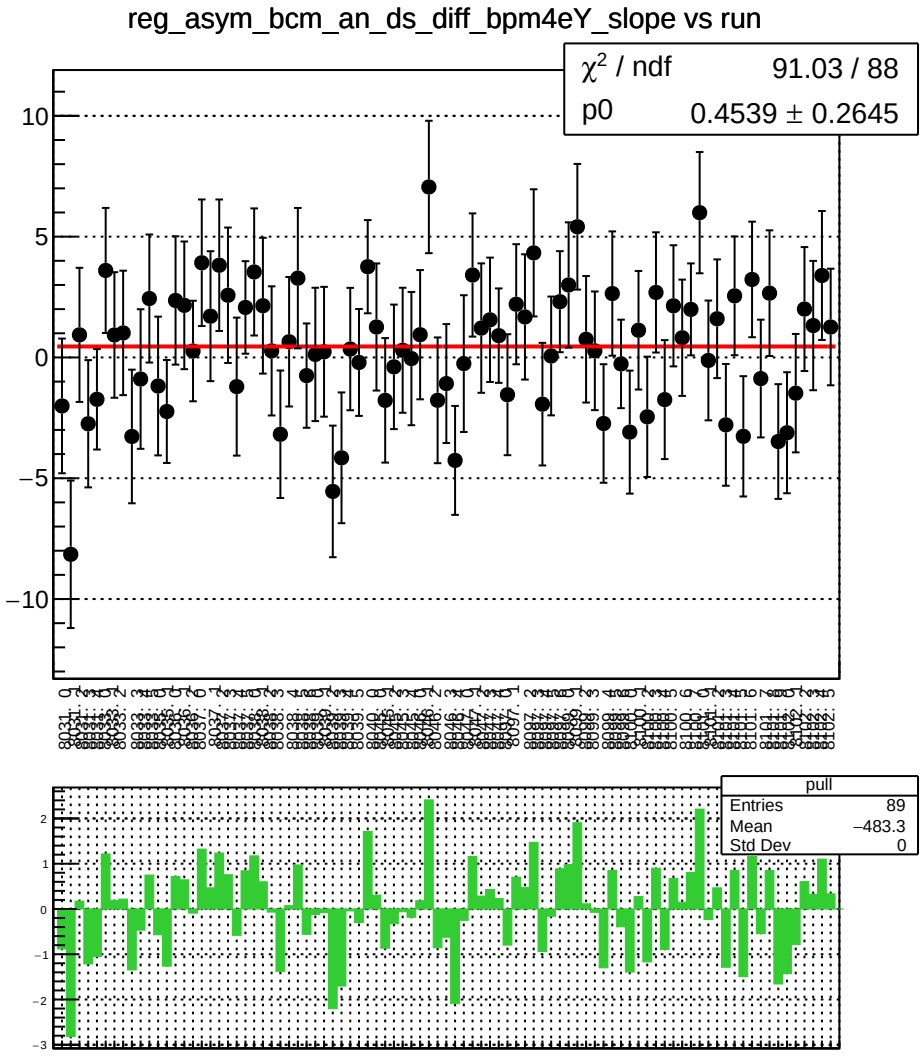

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 126.6 / 88
p0 0.1738 ± 0.01275
pull
Entries 89
Mean −1.089
Std Dev 0
pull1D
Entries 89
Mean −0.05545
Std Dev 1.192

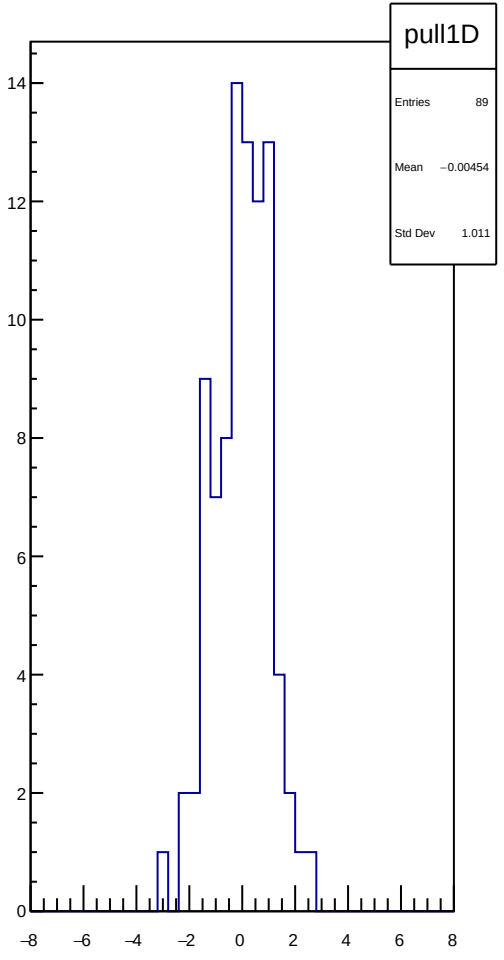

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 163.6 / 88
p0 4.549 ± 0.15
pull
Entries 89
Mean 233.4
Std Dev 0
pull1D
Entries 89
Mean 0.07561
Std Dev 1.354

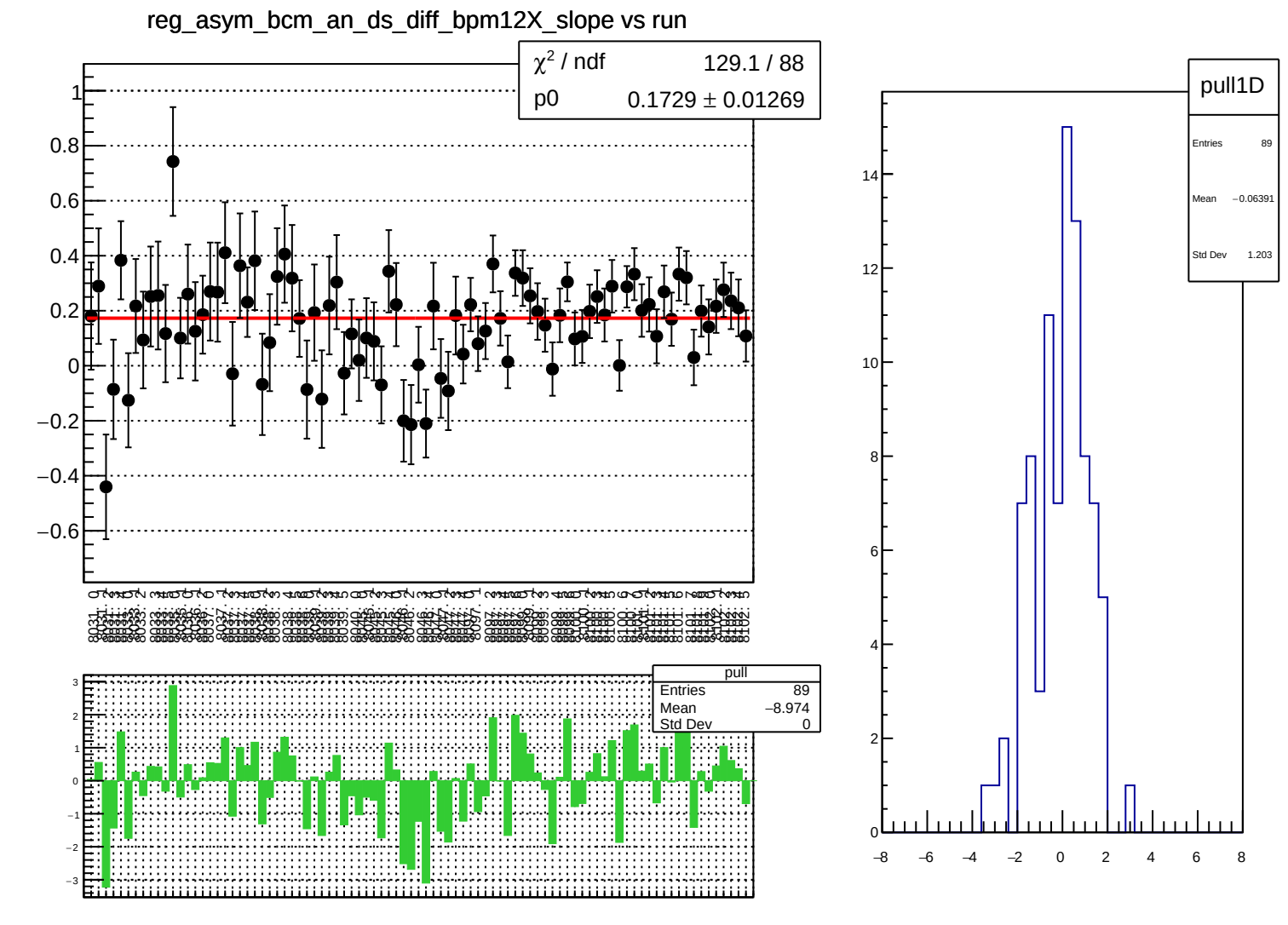

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 92.24 / 88
p0 −0.5345 ± 0.2489
pull
Entries 89
Mean −256.1
Std Dev 0

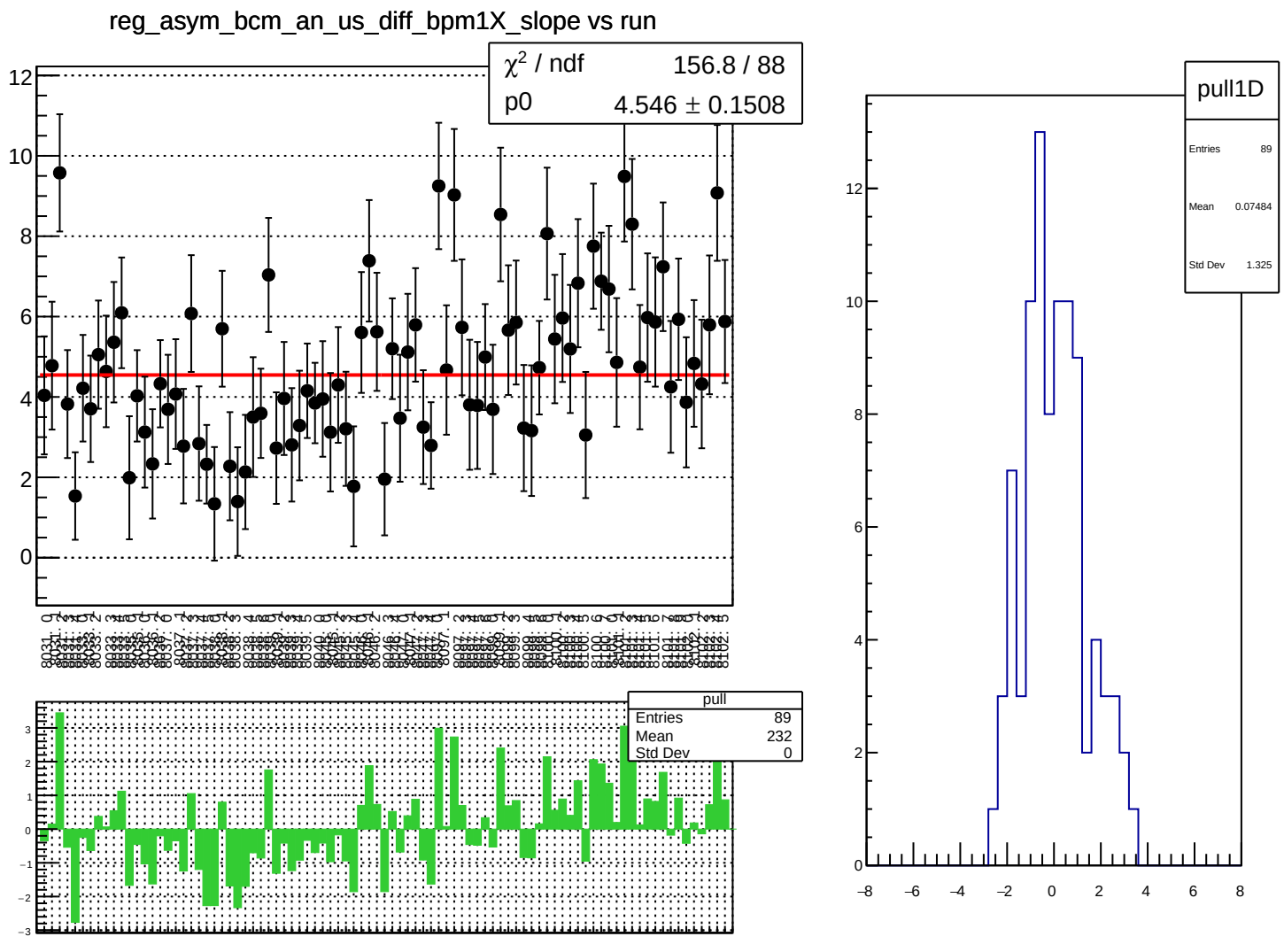

pull1D
Entries 89
Mean 0.004337
Std Dev 1.018

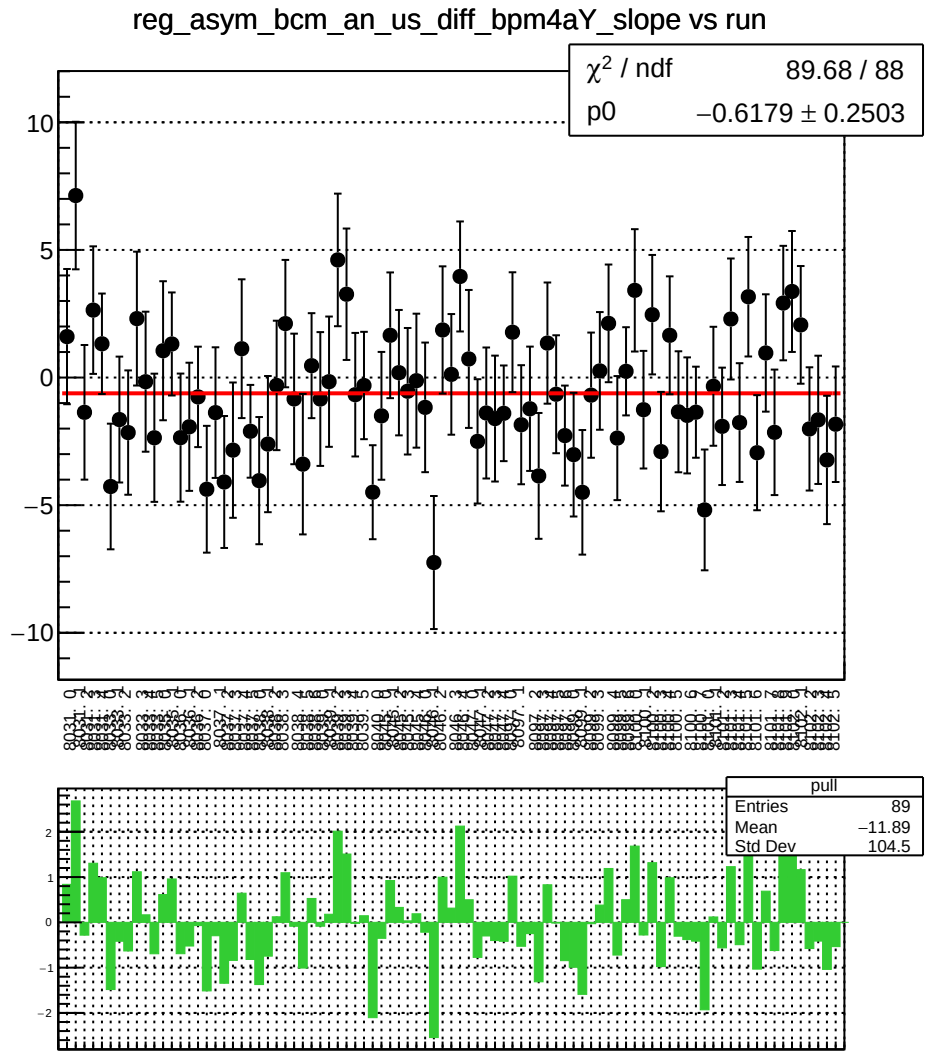

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 150.6 / 88
p0 −4.251 ± 0.1588
pull
Entries 89
Mean 694.9
Std Dev 0
pull1D
Entries 89
Mean −0.01889
Std Dev 1.301

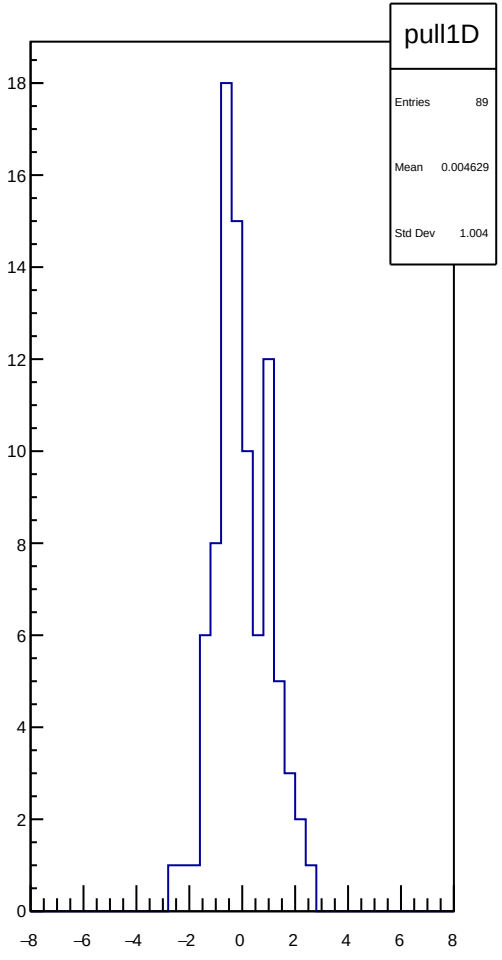

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 91.03 / 88
p0 0.4539 ± 0.2645
pull
Entries 89
Mean −483.3
Std Dev 0

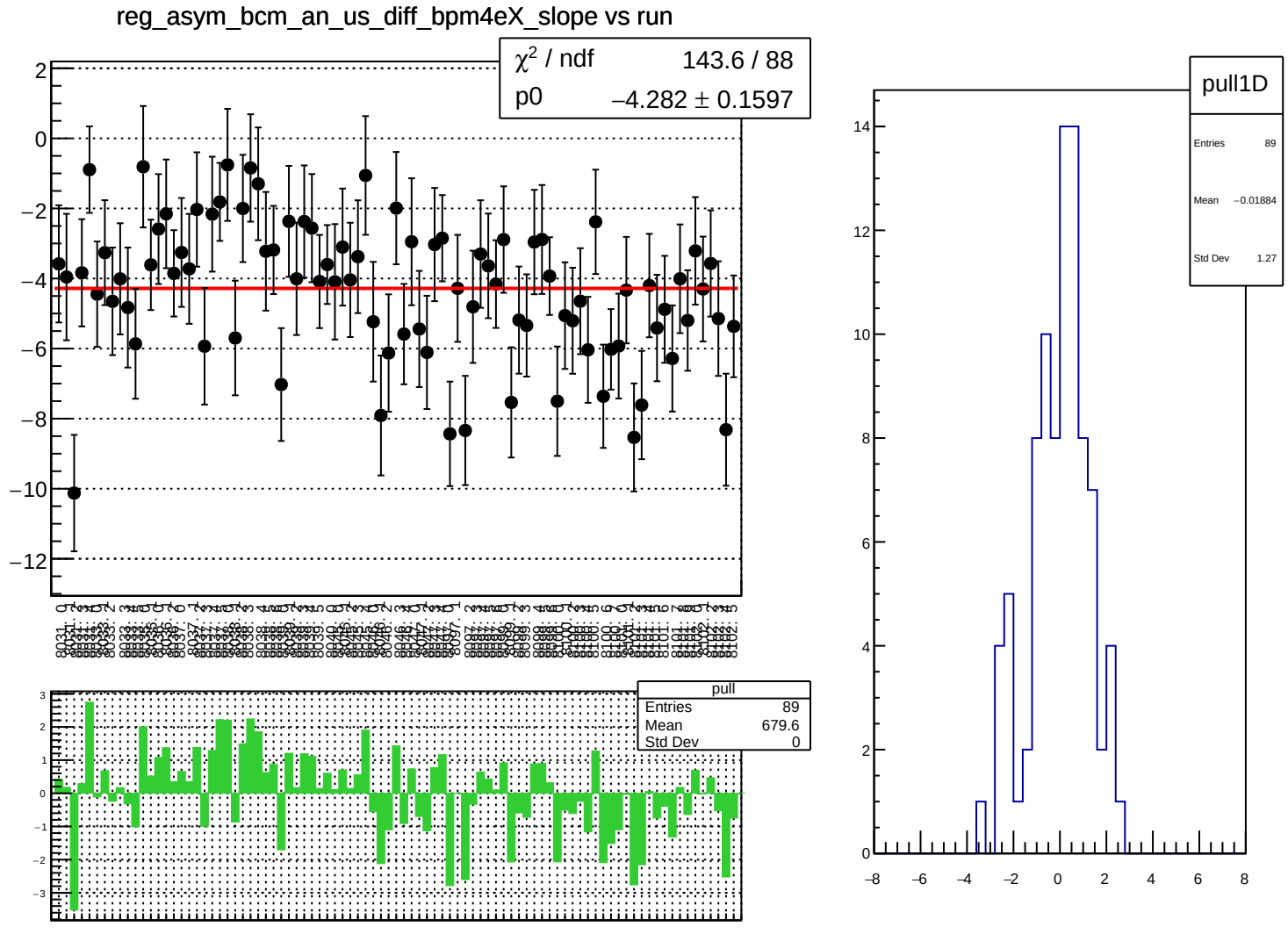

pull1D
Entries 89
Mean −0.00454
Std Dev 1.011

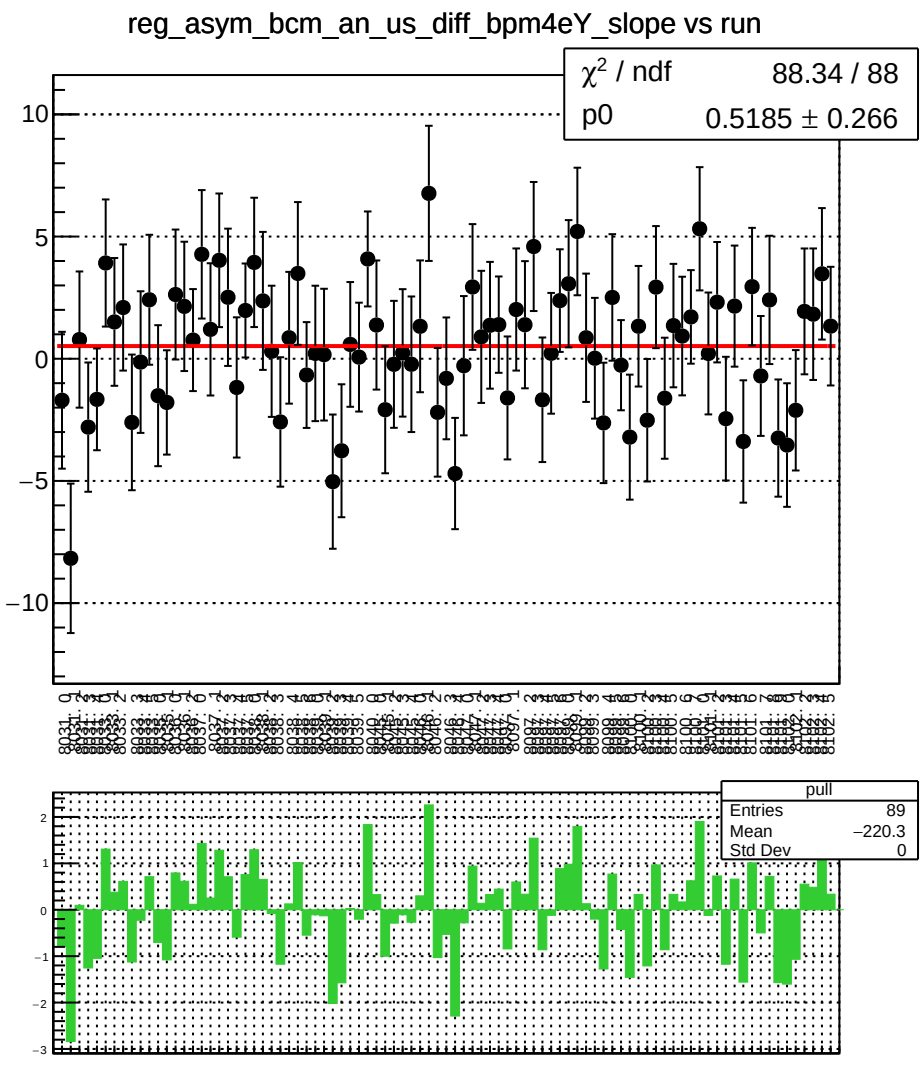

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 129.1 / 88
p0 0.1729 ± 0.01269
pull
Entries 89
Mean −8.974
Std Dev 0
pull1D
Entries 89
Mean −0.06391
Std Dev 1.203

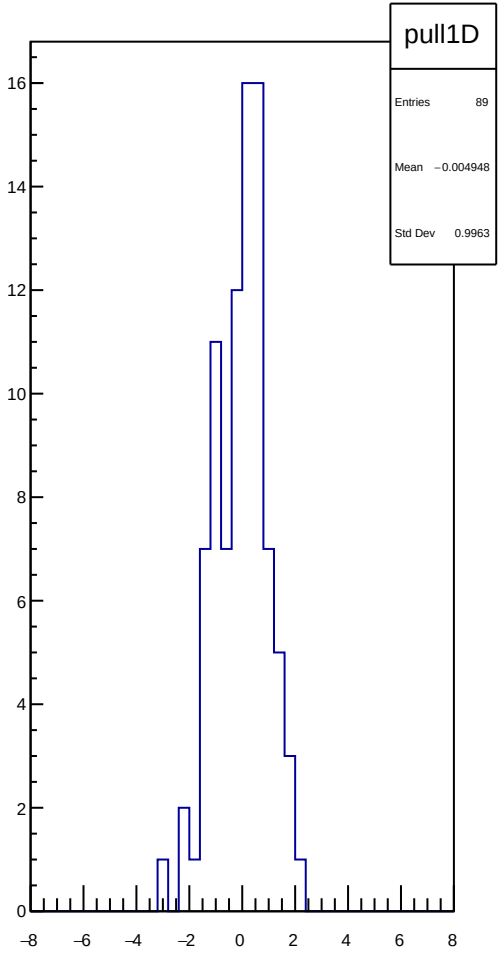

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 156.8 / 88
p0 4.546 ± 0.1508
pull
Entries 89
Mean 232
Std Dev 0
pull1D
Entries 89
Mean 0.07484
Std Dev 1.325

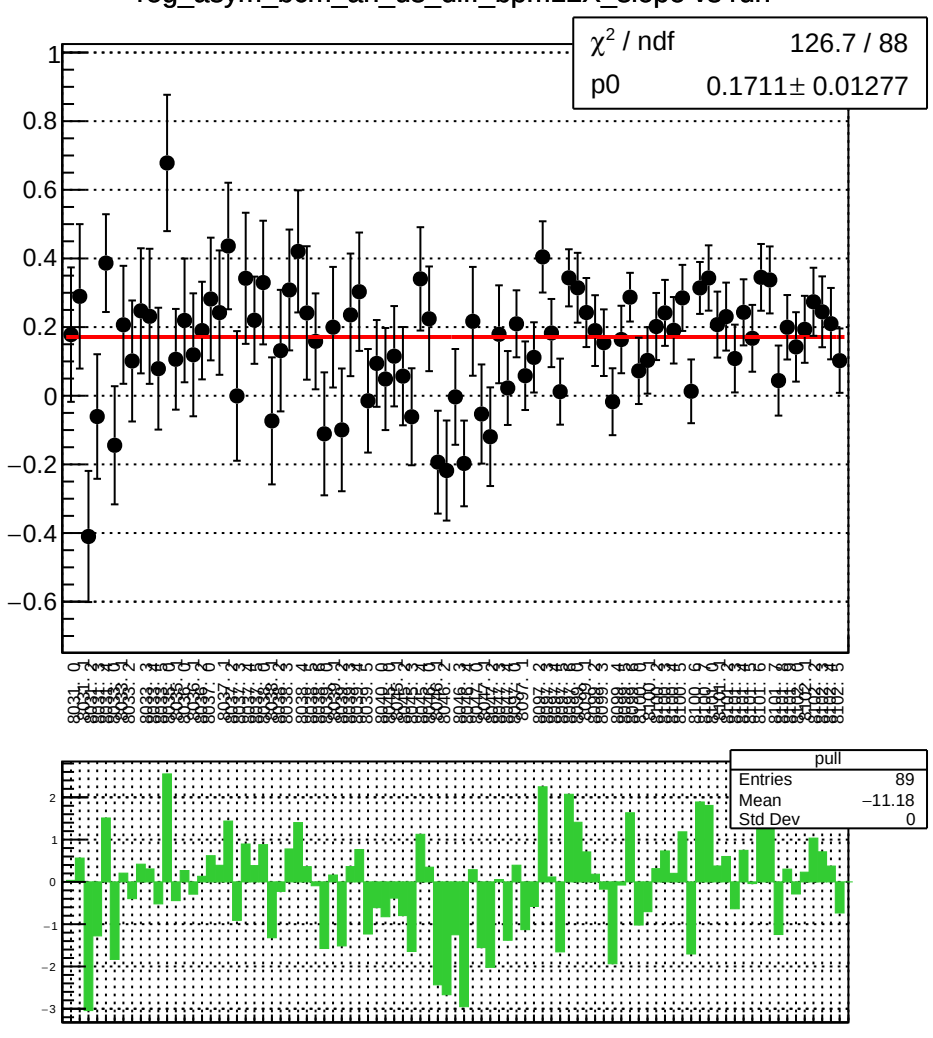

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 89.68 / 88
p0 −0.6179 ± 0.2503
pull
Entries 89
Mean −11.89
Std Dev 104.5

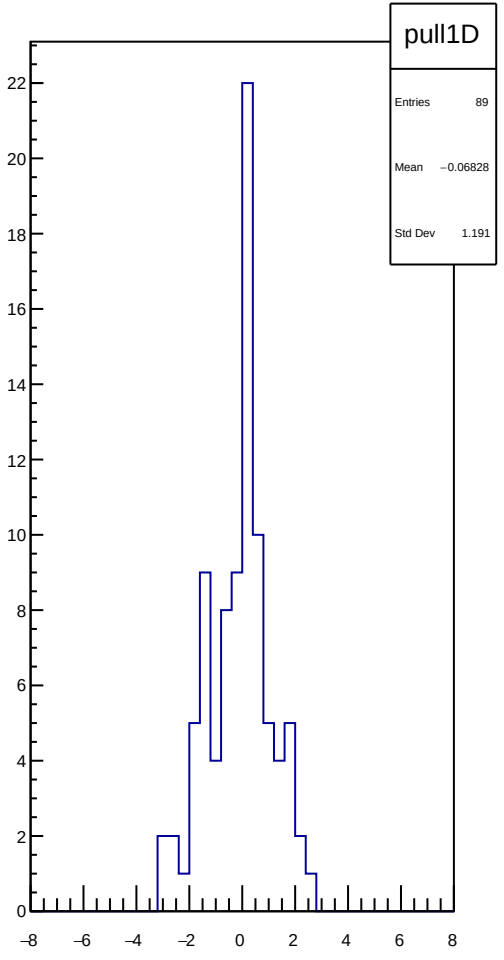

pull1D
Entries 89
Mean 0.004629
Std Dev 1.004

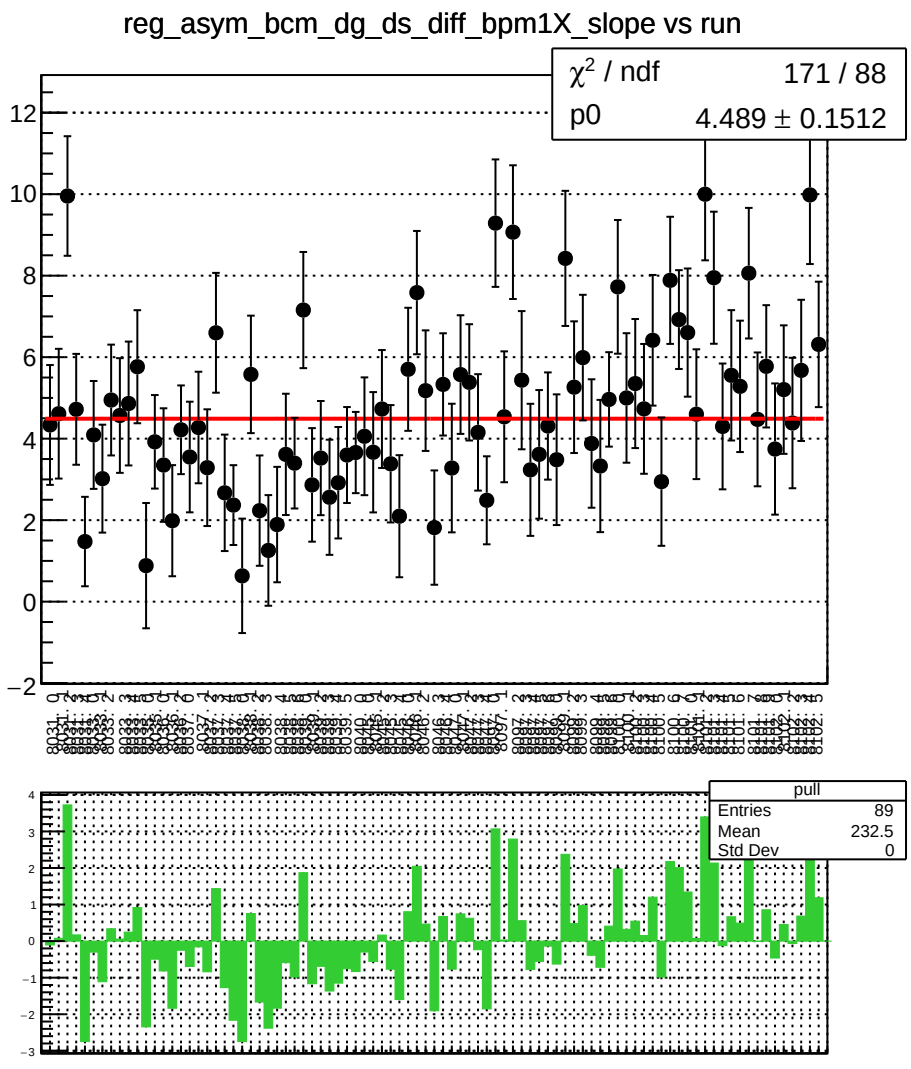

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 143.6 / 88
p0 −4.282 ± 0.1597
pull
Entries 89
Mean 679.6
Std Dev 0
pull1D
Entries 89
Mean −0.01884
Std Dev 1.27

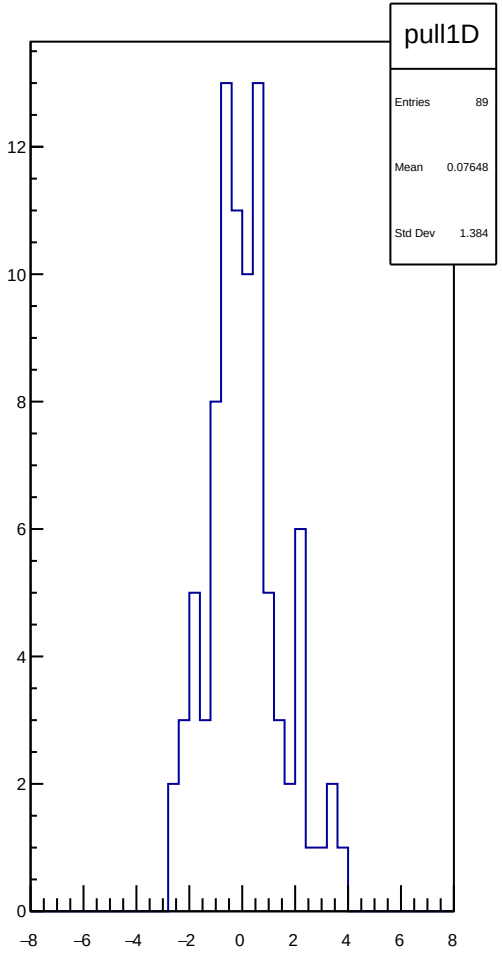

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 88.34 / 88
p0 0.5185 ± 0.266
pull
Entries 89
Mean −220.3
Std Dev 0

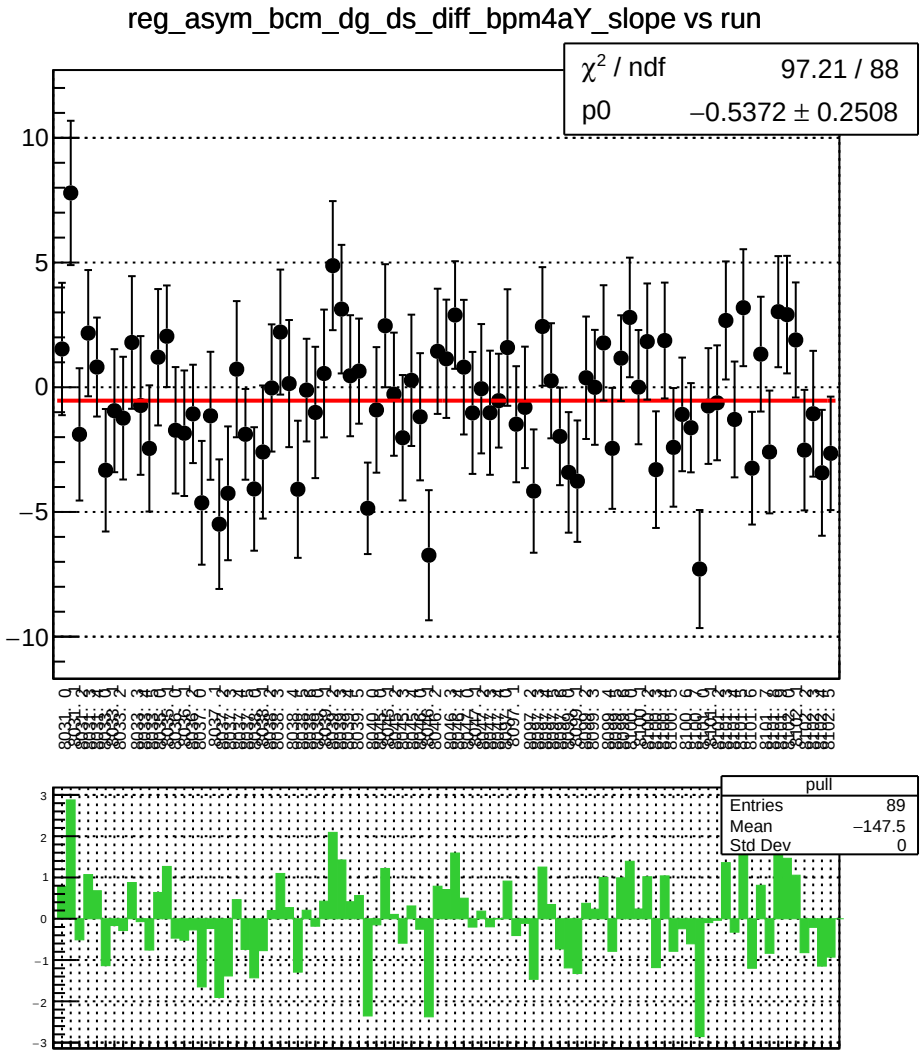

pull1D
Entries 89
Mean −0.004948
Std Dev 0.9963

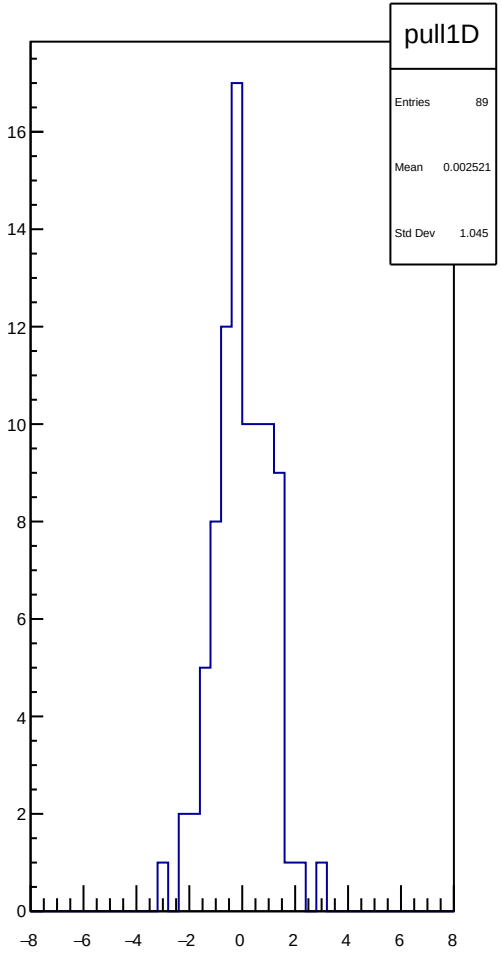

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 126.7 / 88
p0 0.1711± 0.01277
pull
Entries 89
Mean −11.18
Std Dev 0

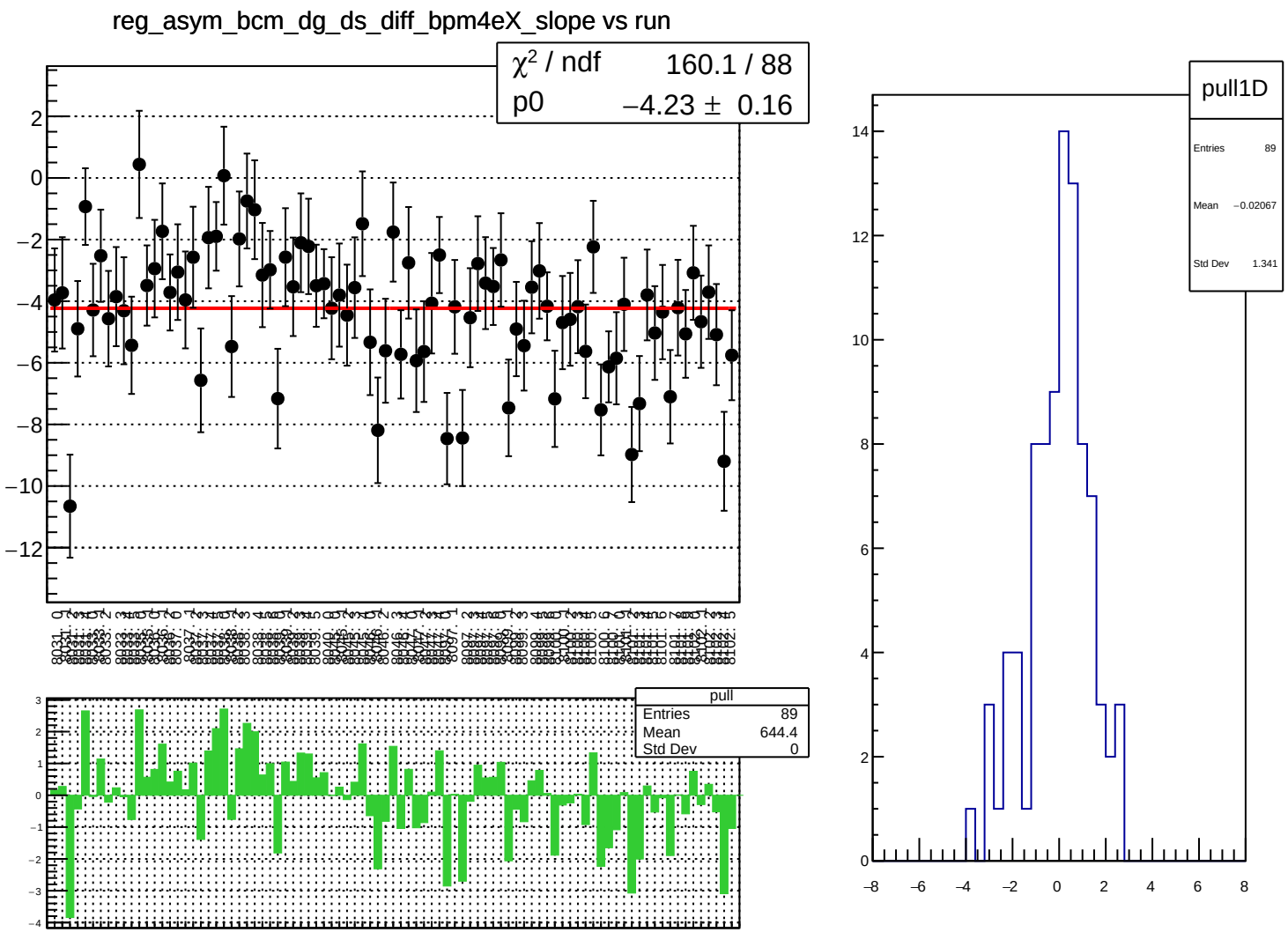

pull1D
Entries 89
Mean −0.06828
Std Dev 1.191

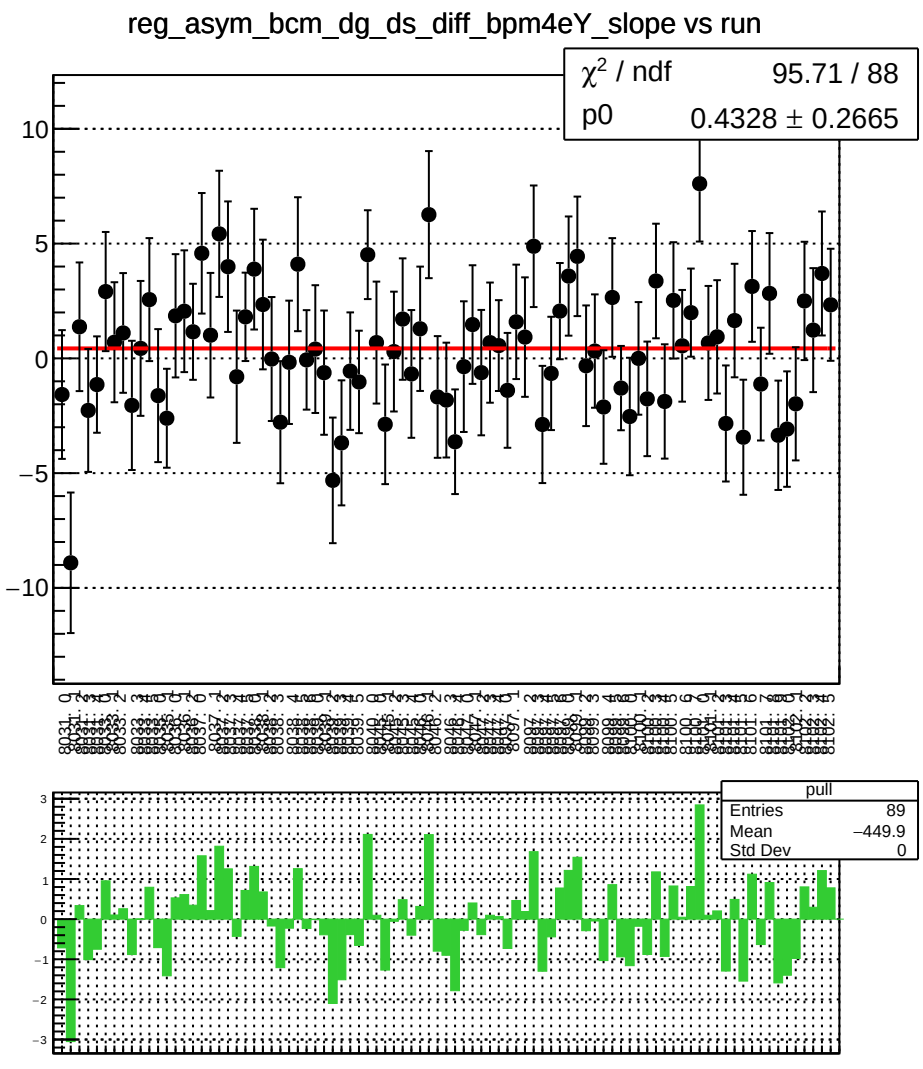

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 171 / 88
p0 4.489 ± 0.1512
pull
Entries 89
Mean 232.5
Std Dev 0

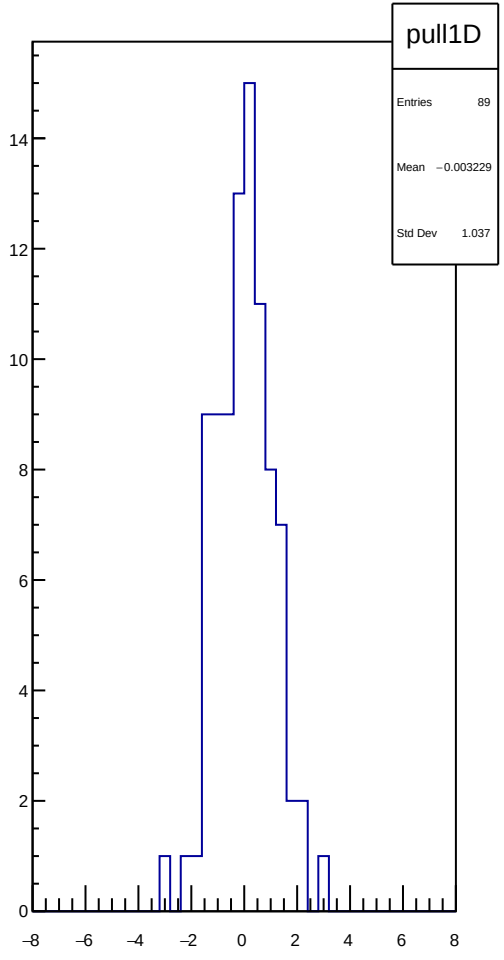

pull1D
Entries 89
Mean 0.07648
Std Dev 1.384

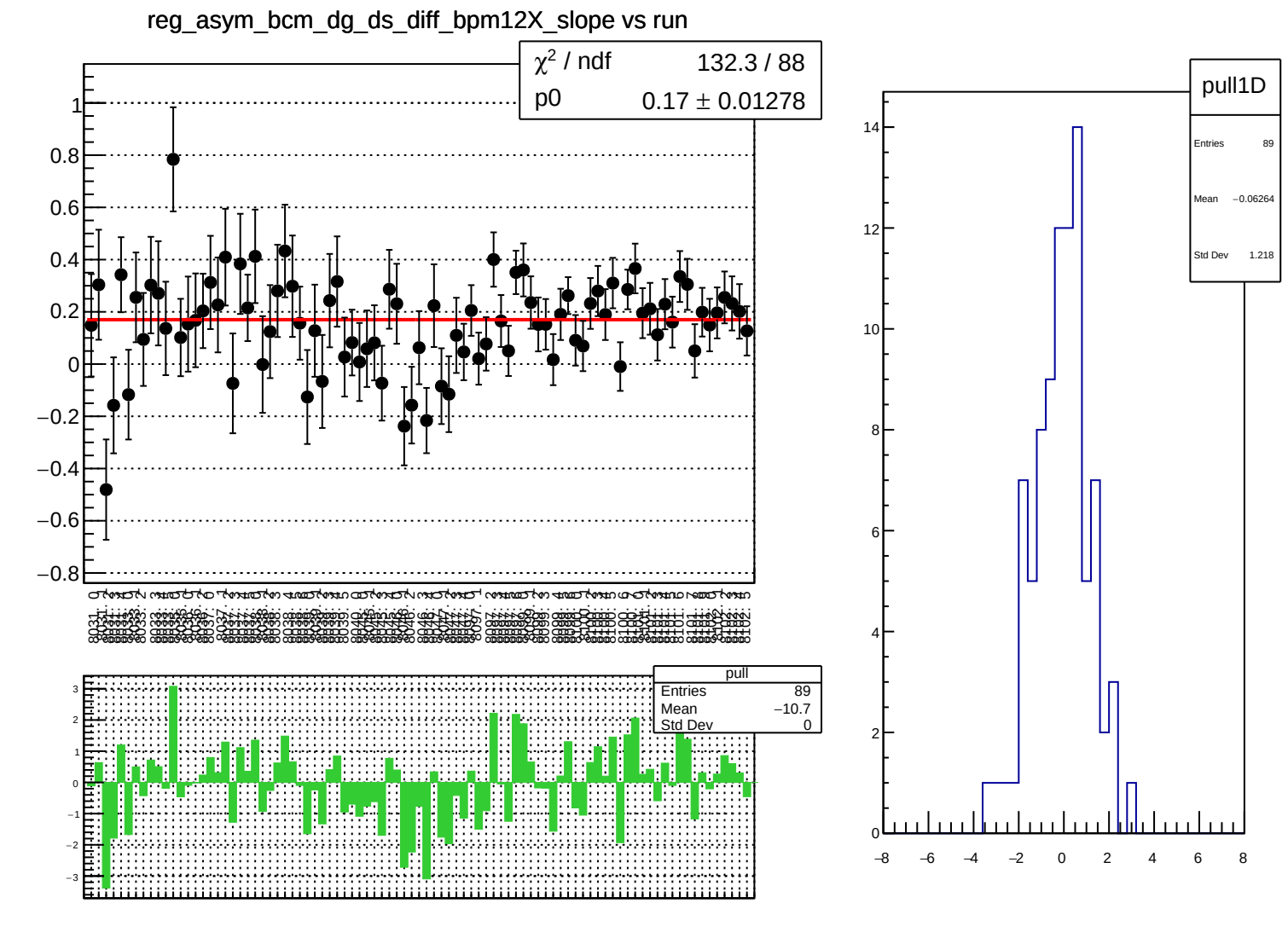

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 97.21 / 88
p0 −0.5372 ± 0.2508
10
5
0
−5
−10
pull
Entries 89
Mean −147.5
Std Dev 0
3
2
1
0
−1
−2
−3

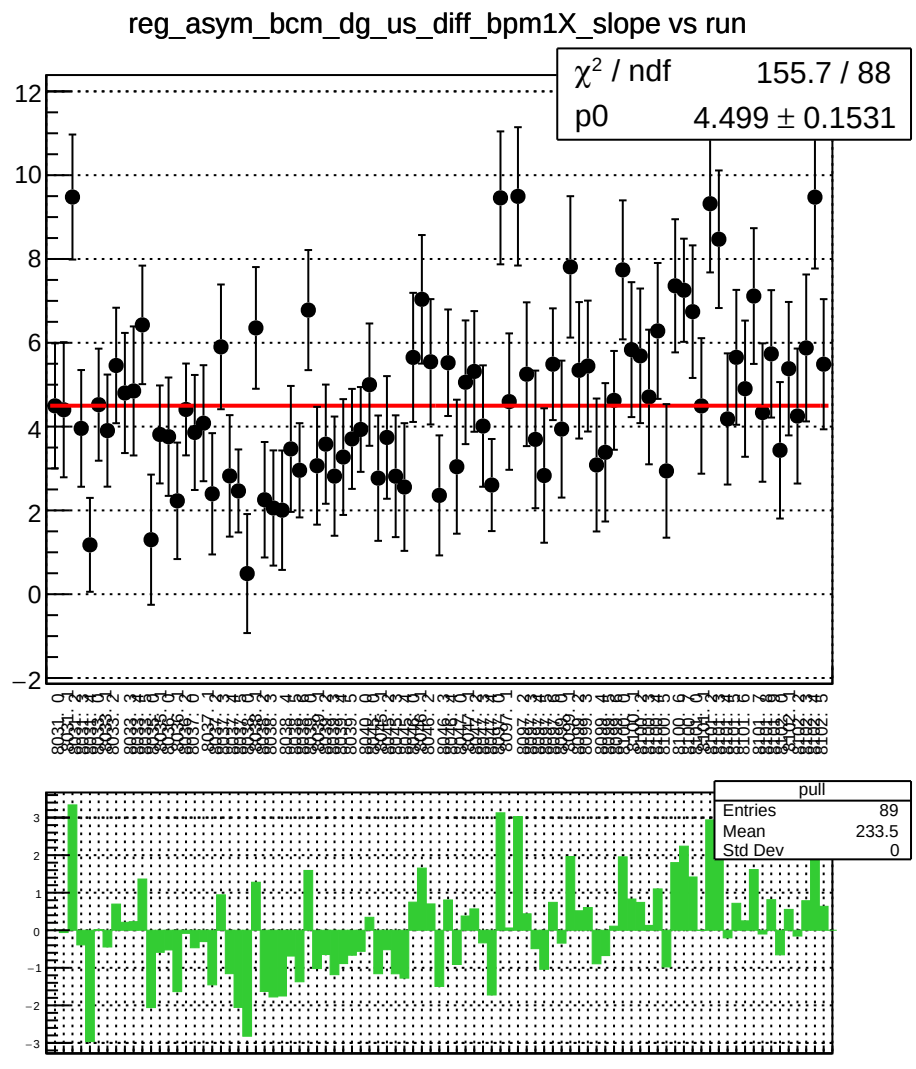

pull1D
Entries 89
Mean 0.002521
Std Dev 1.045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

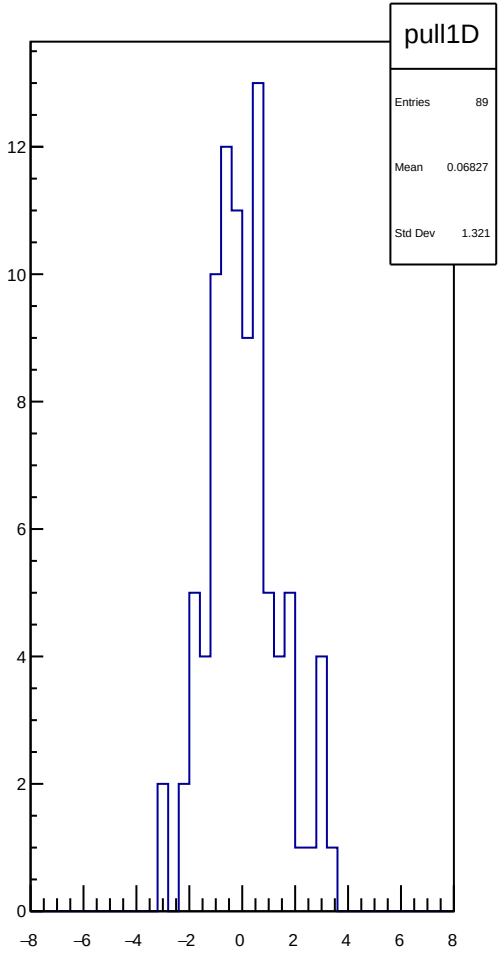

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 160.1 / 88
p0 −4.23 ± 0.16
pull
Entries 89
Mean 644.4
Std Dev 0
pull1D
Entries 89
Mean −0.02067
Std Dev 1.341

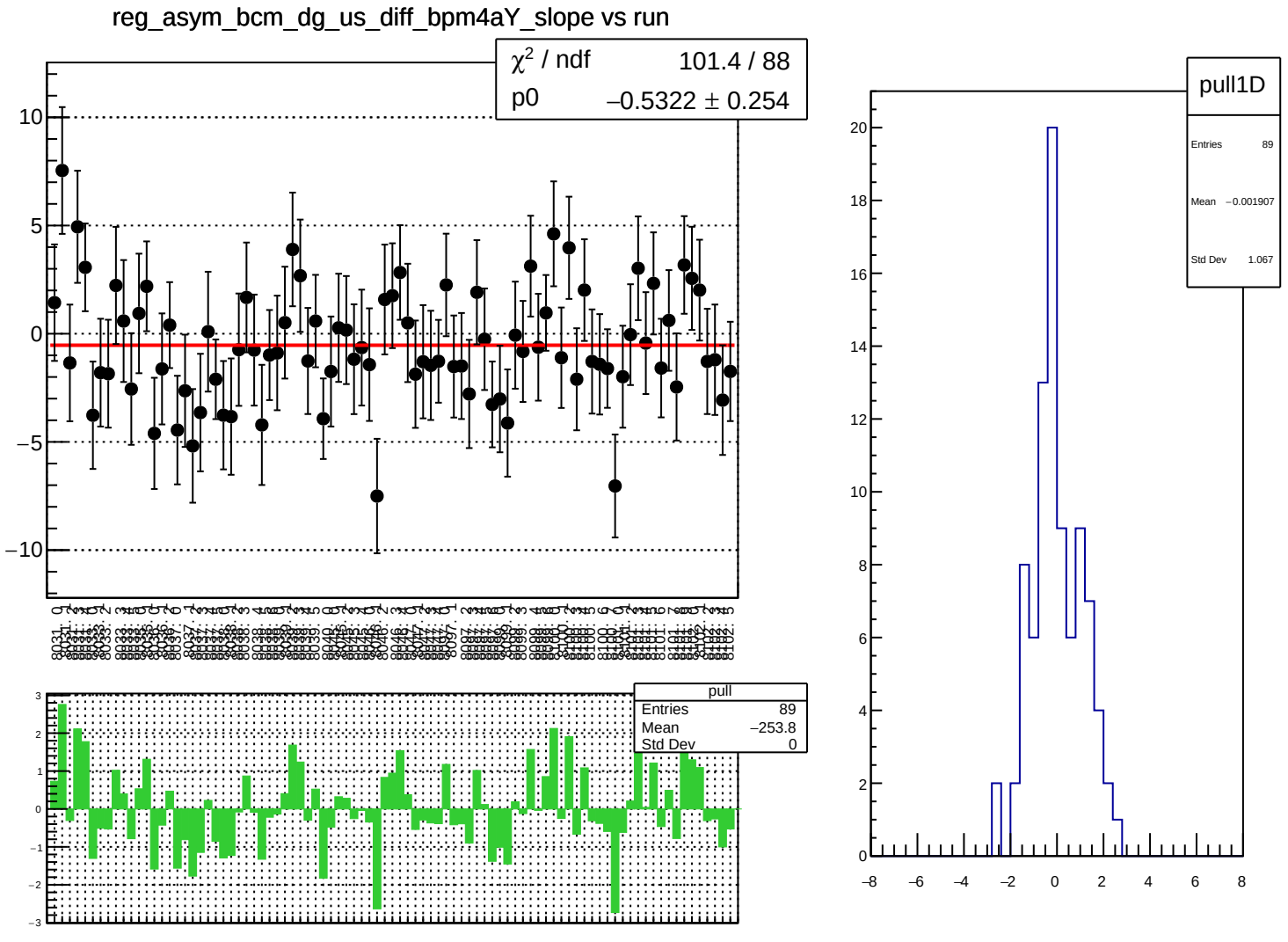

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 95.71 / 88
p0 0.4328 ± 0.2665
pull
Entries 89
Mean −449.9
Std Dev 0

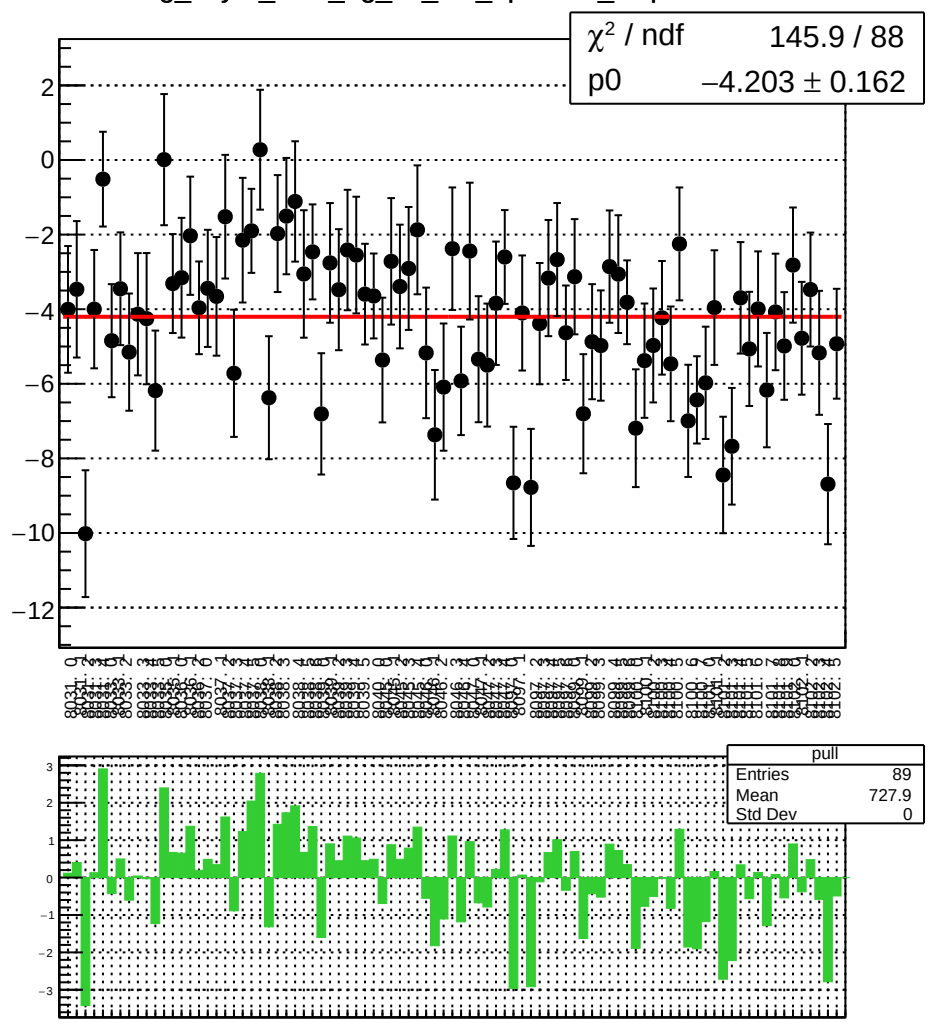

pull1D
Entries 89
Mean −0.003229
Std Dev 1.037

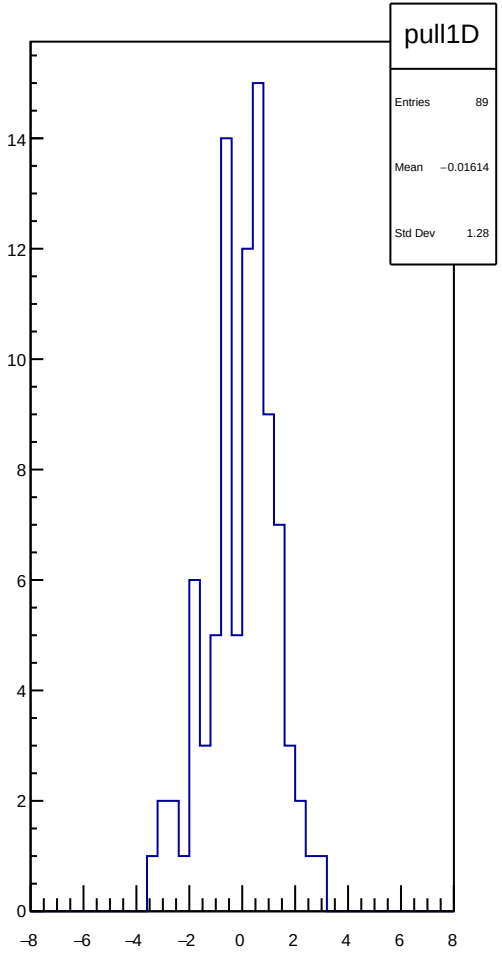

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 132.3 / 88
p0 0.17 ± 0.01278
pull
Entries 89
Mean −10.7
Std Dev 0
pull1D
Entries 89
Mean −0.06264
Std Dev 1.218

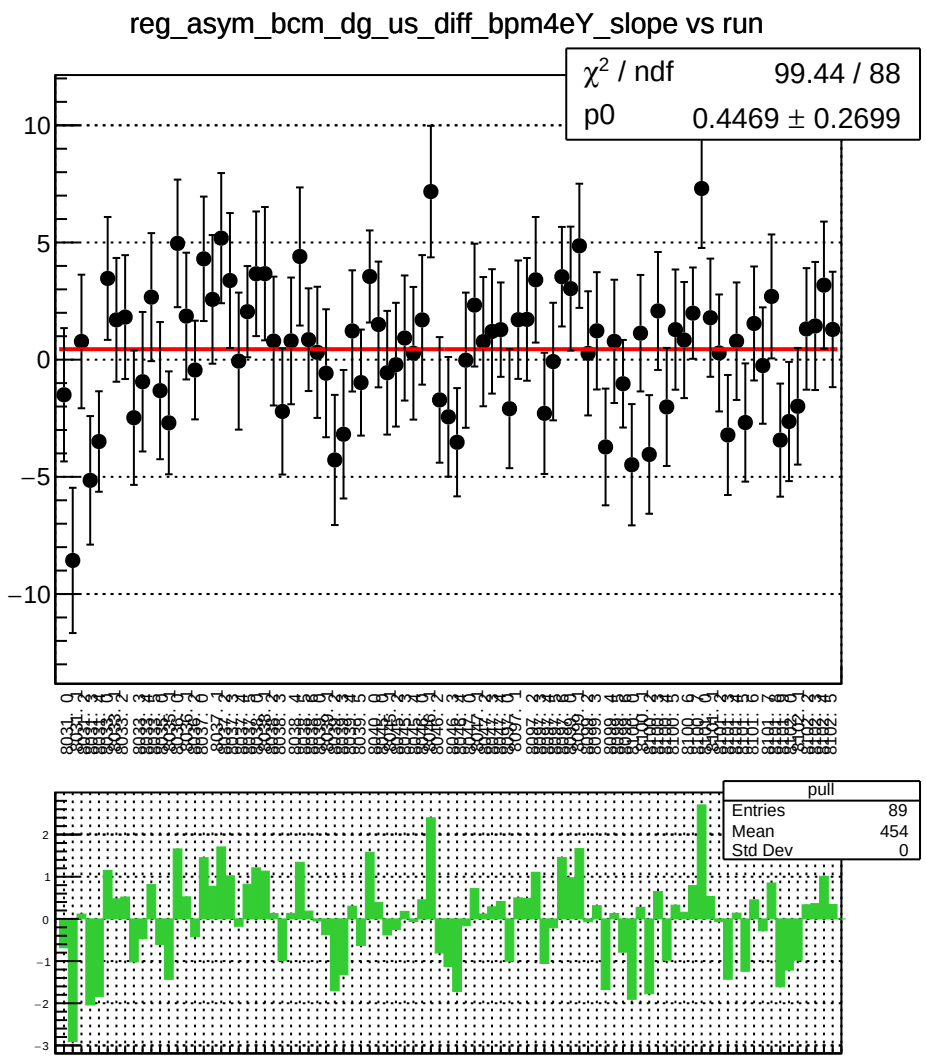

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 155.7 / 88
p0 4.499 ± 0.1531
pull
Entries 89
Mean 233.5
Std Dev 0

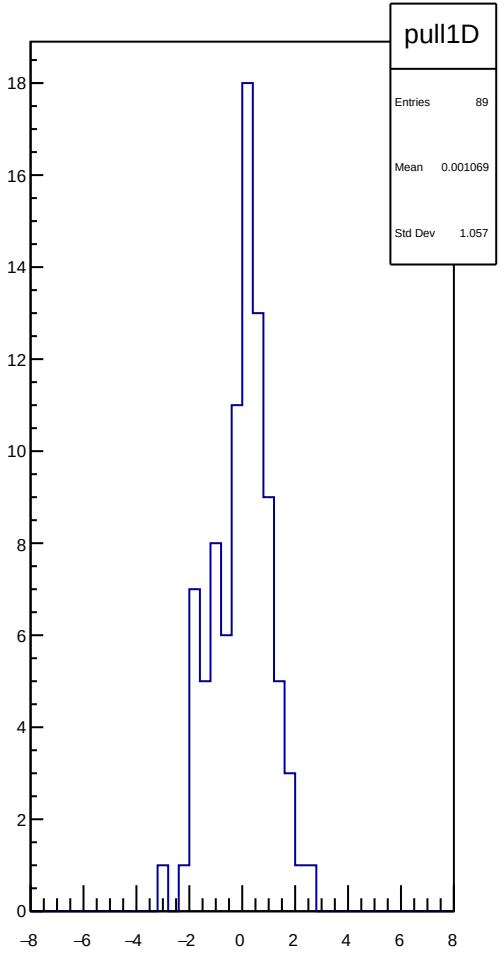

pull1D
Entries 89
Mean 0.06827
Std Dev 1.321

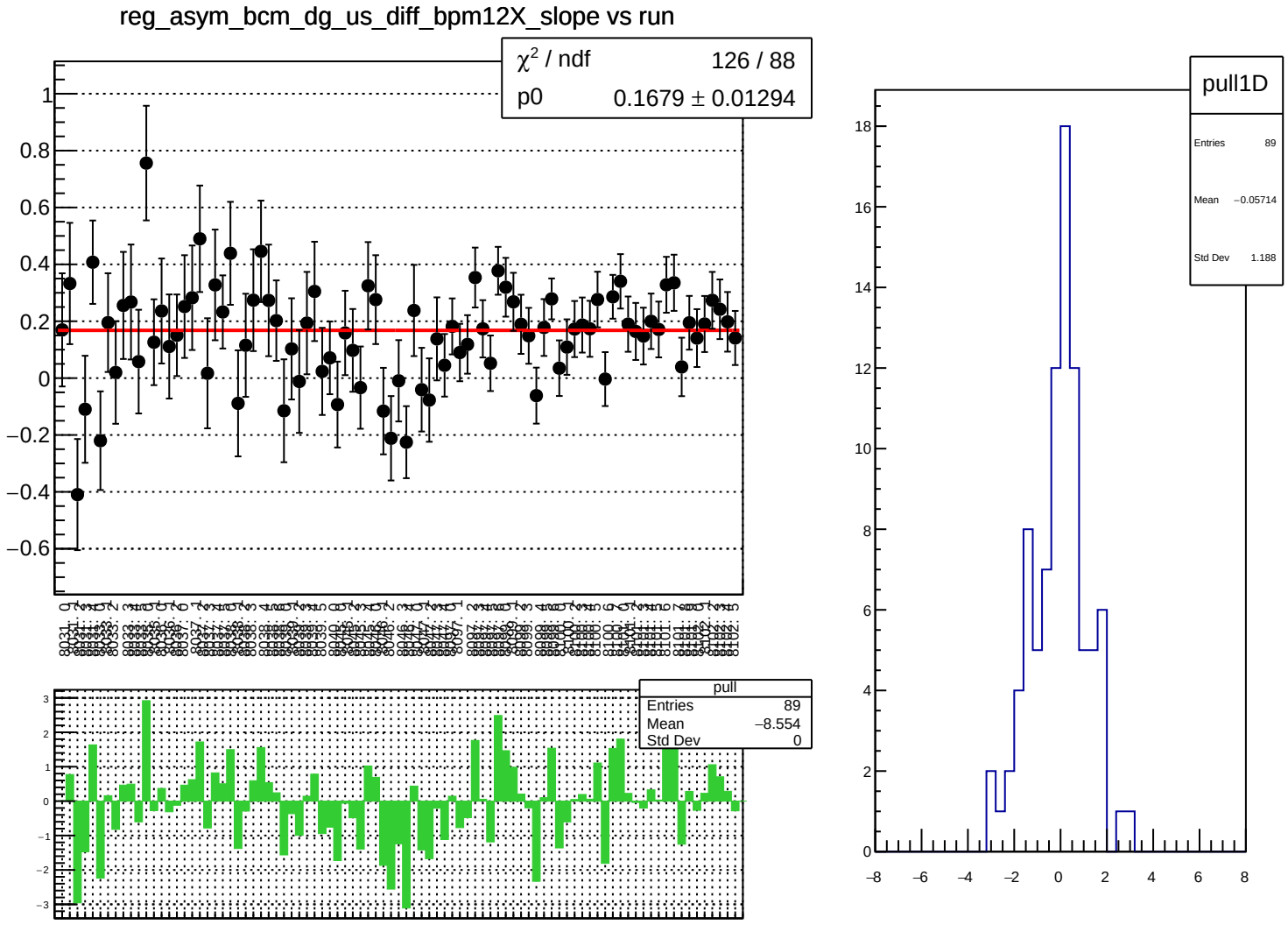

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 101.4 / 88
p0 −0.5322 ± 0.254
pull
Entries 89
Mean −253.8
Std Dev 0
pull1D
Entries 89
Mean −0.001907
Std Dev 1.067

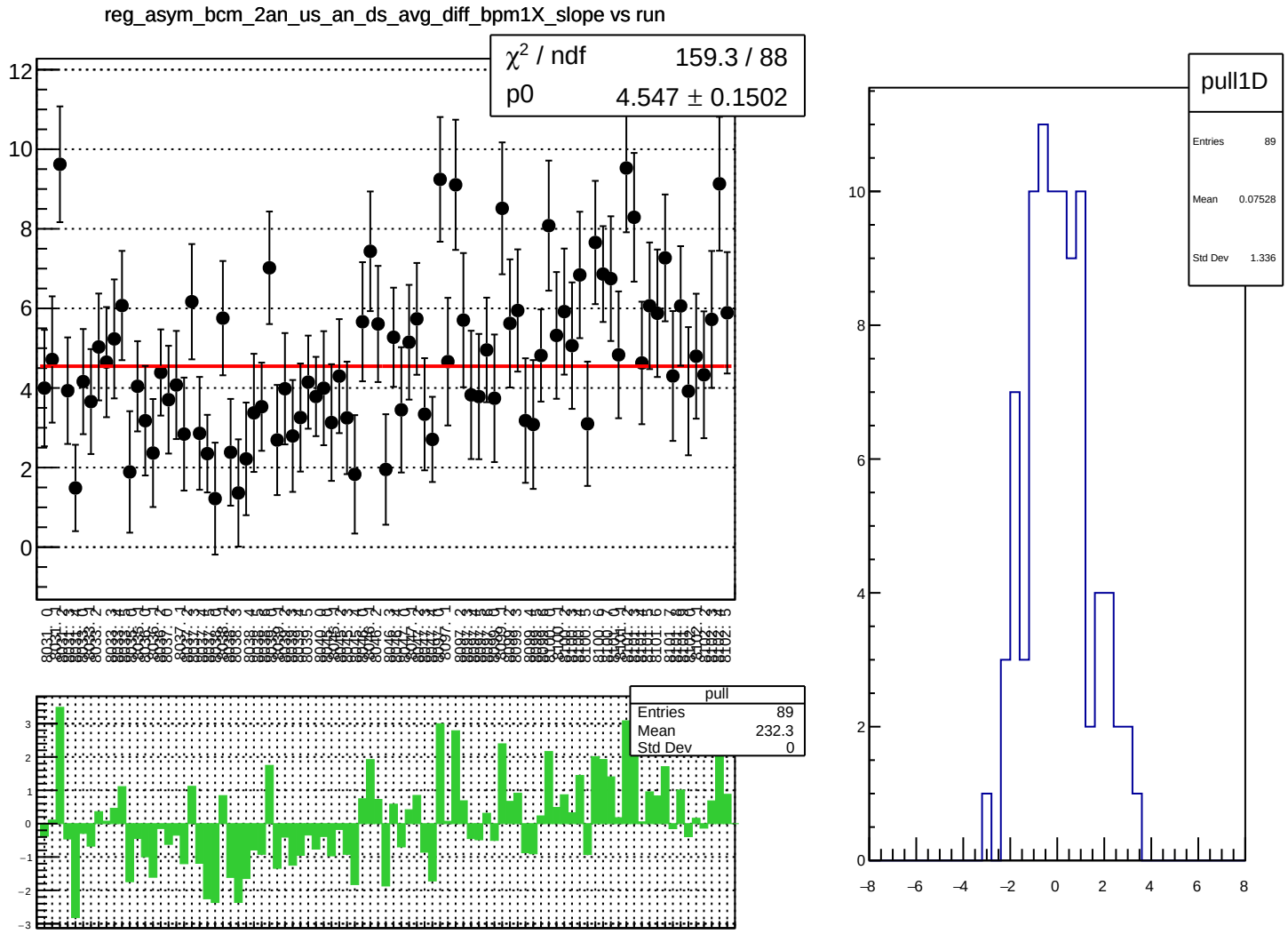

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 145.9 / 88
p0 −4.203 ± 0.162
pull
Entries 89
Mean 727.9
Std Dev 0

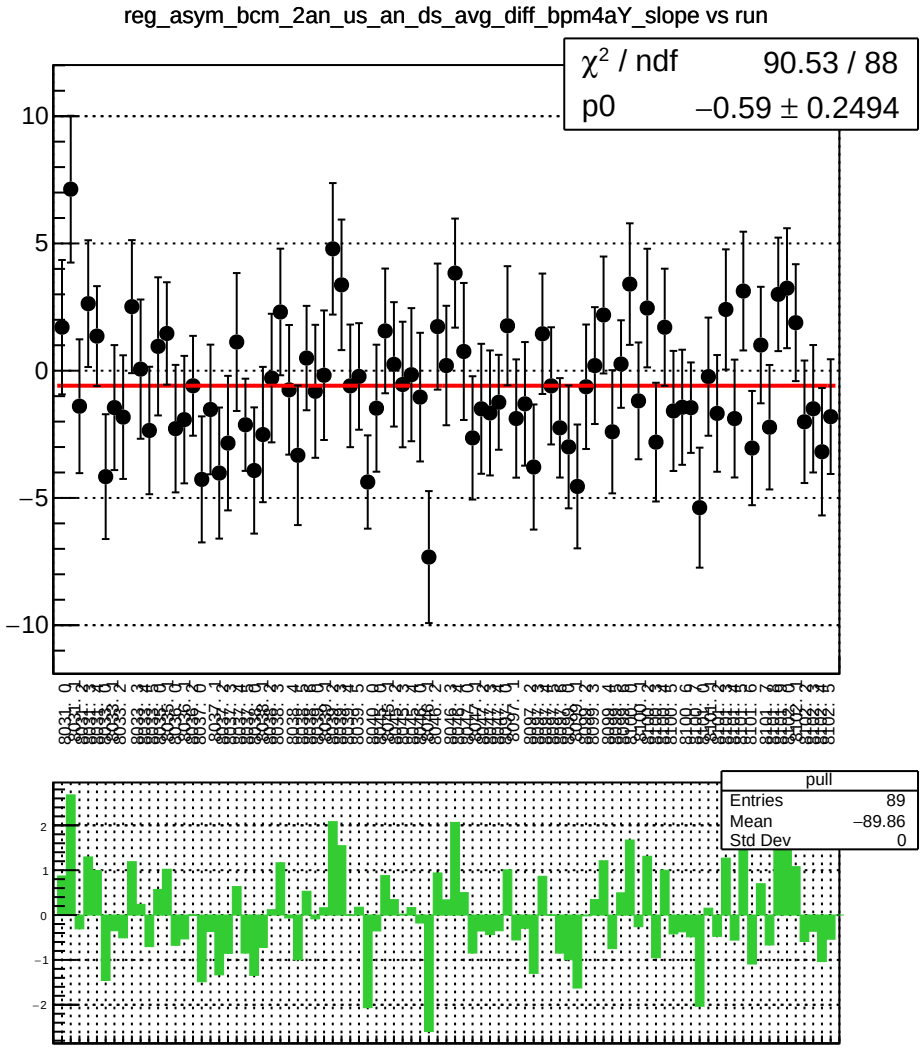

pull1D
Entries 89
Mean −0.01614
Std Dev 1.28

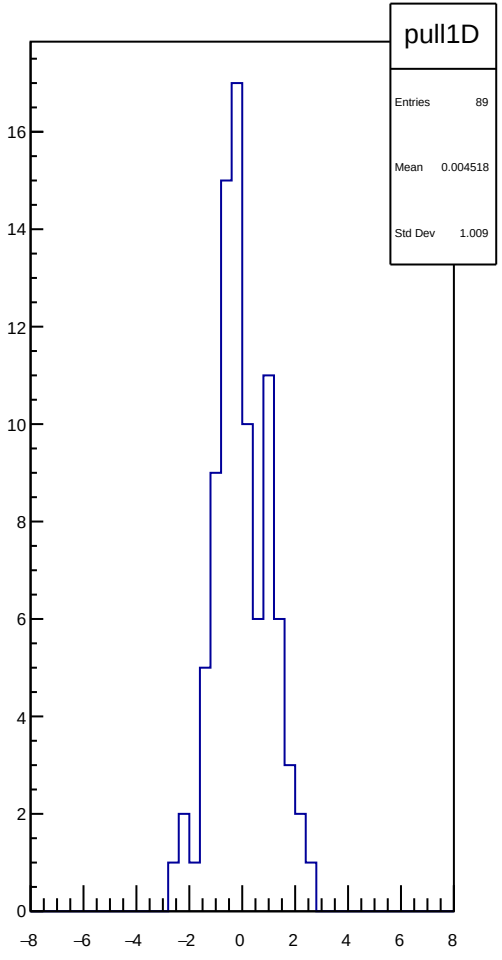

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 99.44 / 88
p0 0.4469 ± 0.2699
pull
Entries 89
Mean 454
Std Dev 0

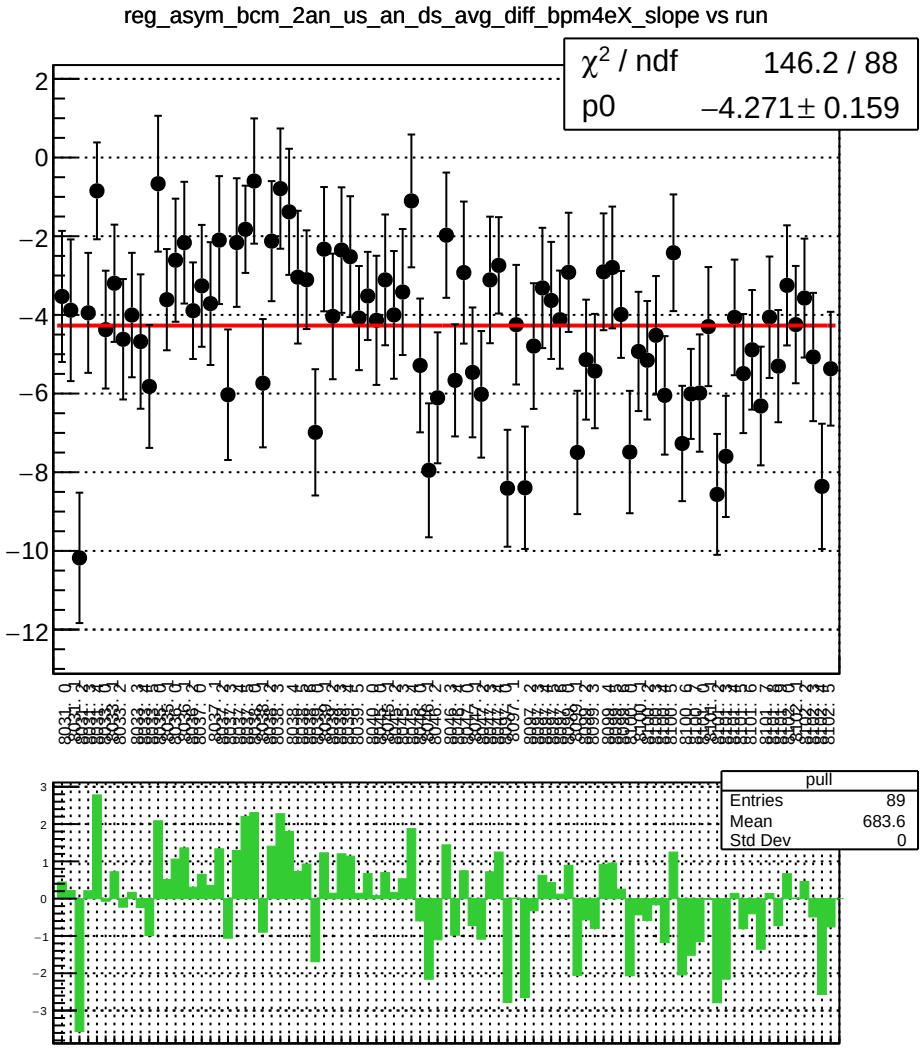

pull1D
Entries 89
Mean 0.001069
Std Dev 1.057

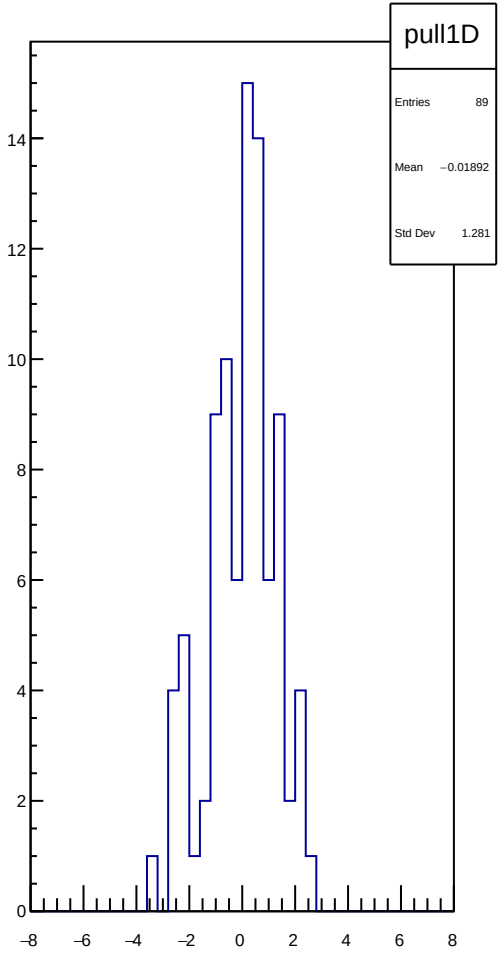

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 126 / 88
p0 0.1679 ± 0.01294
pull
Entries 89
Mean −8.554
Std Dev 0
pull1D
Entries 89
Mean −0.05714
Std Dev 1.188

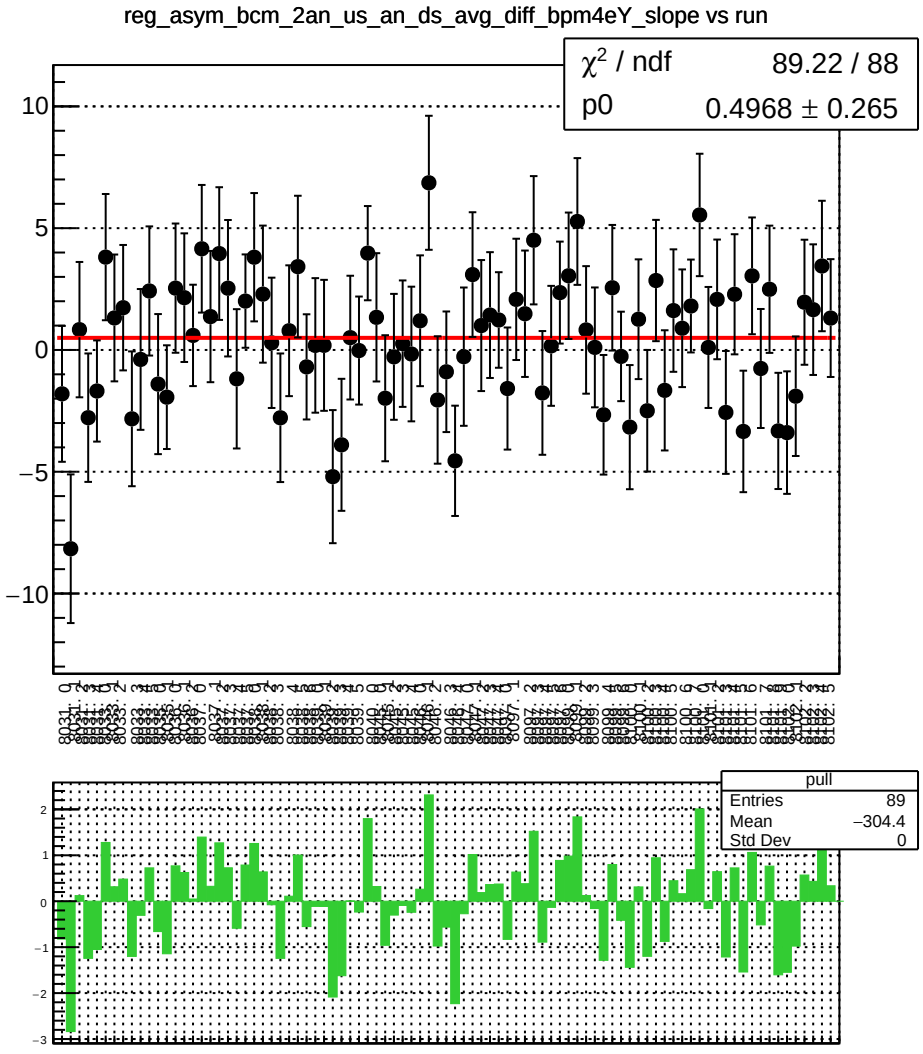

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 159.3 / 88
p0 4.547 ± 0.1502
pull
Entries 89
Mean 232.3
Std Dev 0
pull1D
Entries 89
Mean 0.07528
Std Dev 1.336

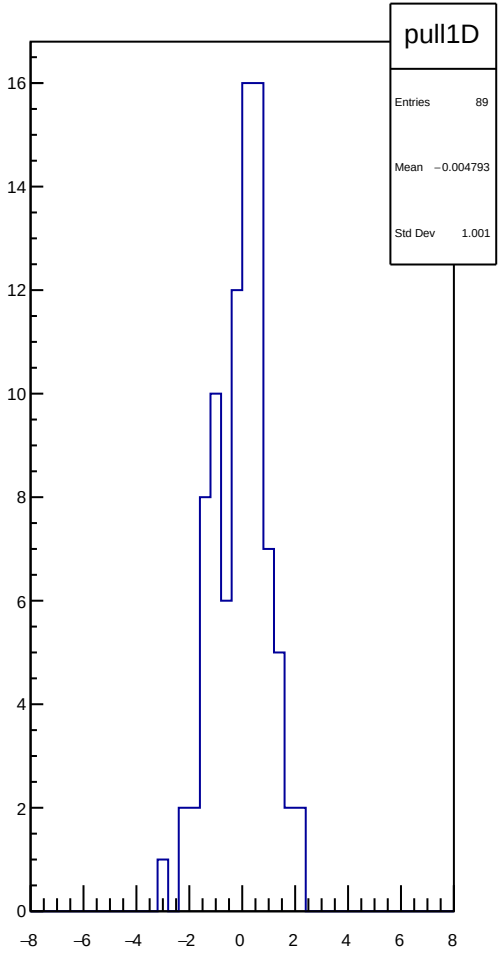

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 90.53 / 88
p0 −0.59 ± 0.2494
pull
Entries 89
Mean −89.86
Std Dev 0

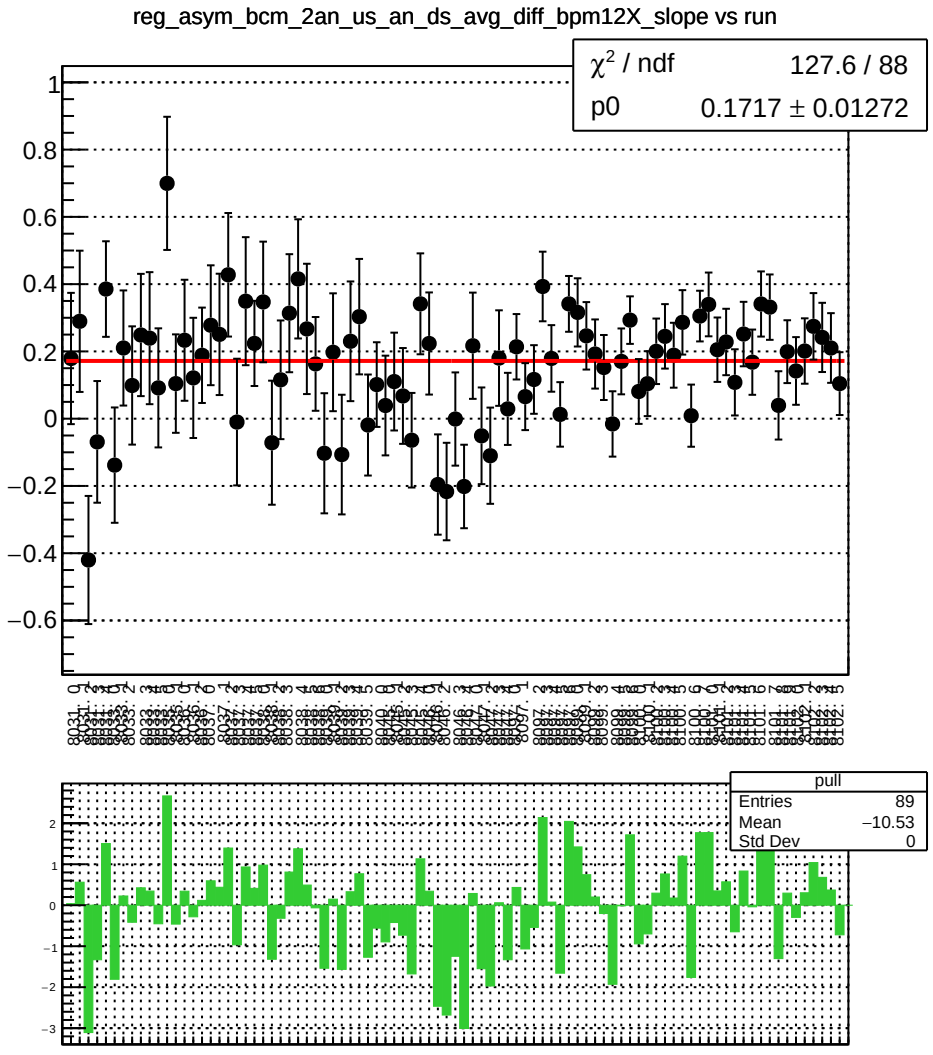

pull1D
Entries 89
Mean 0.004518
Std Dev 1.009

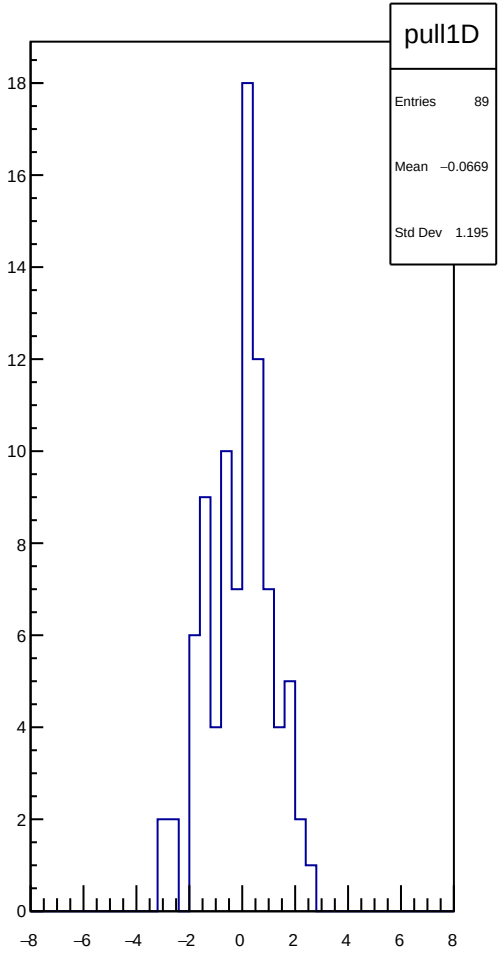

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 146.2 / 88
p0 −4.271 ± 0.159
pull
Entries 89
Mean 683.6
Std Dev 0

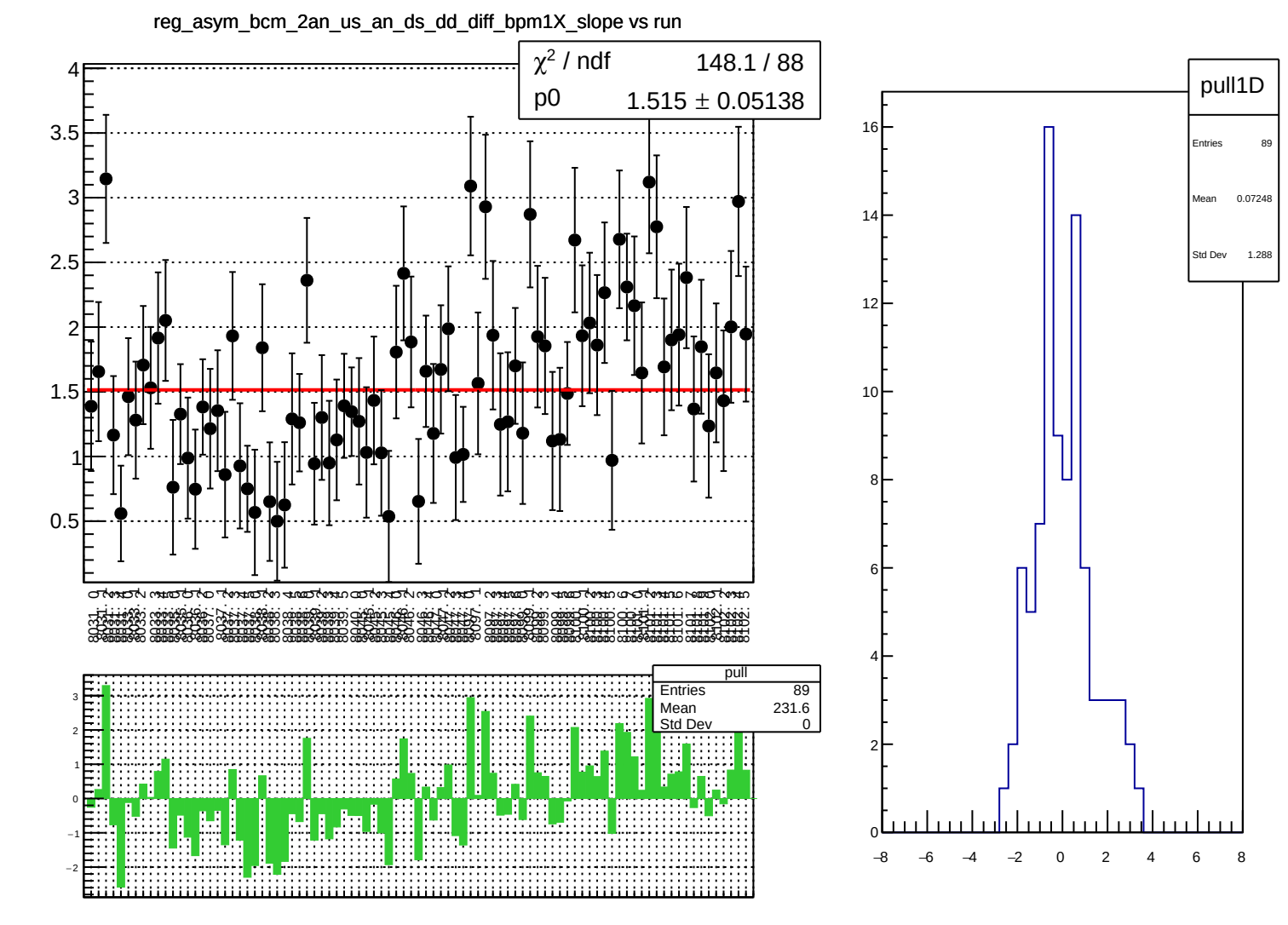

pull1D
Entries 89
Mean −0.01892
Std Dev 1.281

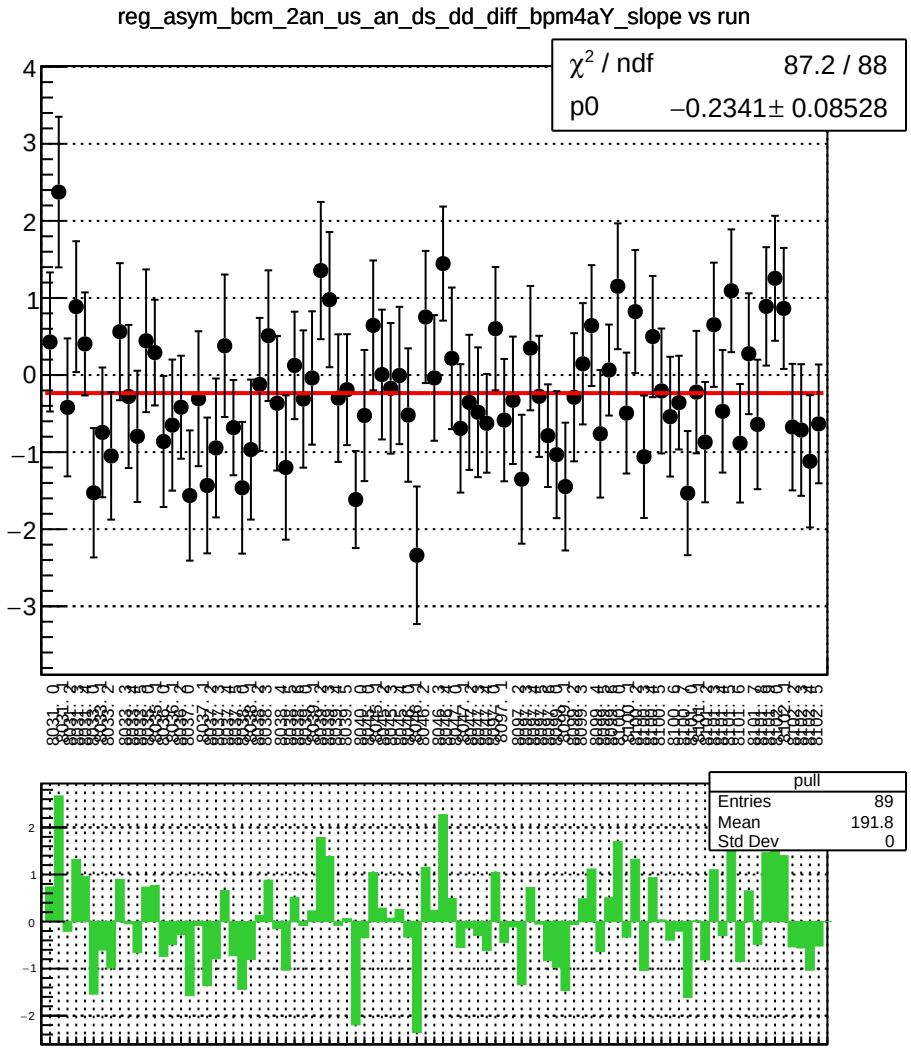

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 89.22 / 88
p0 0.4968 ± 0.265
pull
Entries 89
Mean −304.4
Std Dev 0

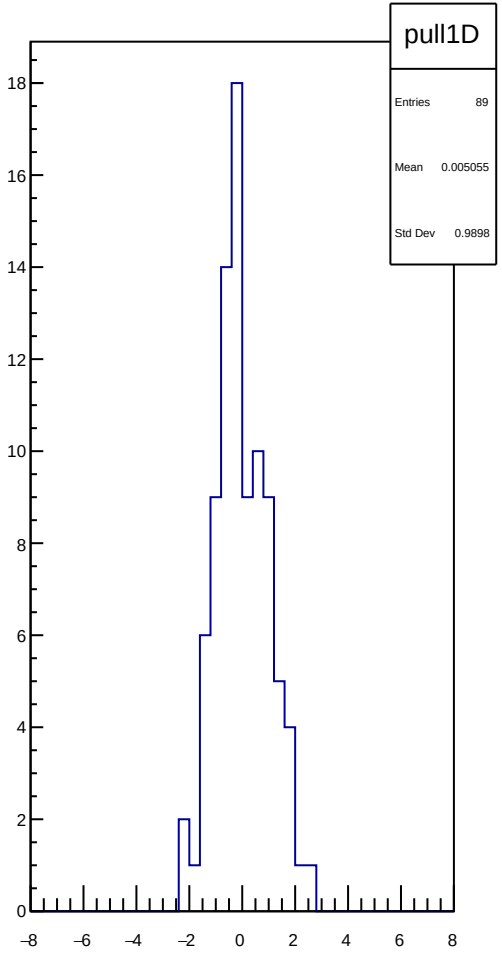

pull1D
Entries 89
Mean −0.004793
Std Dev 1.001

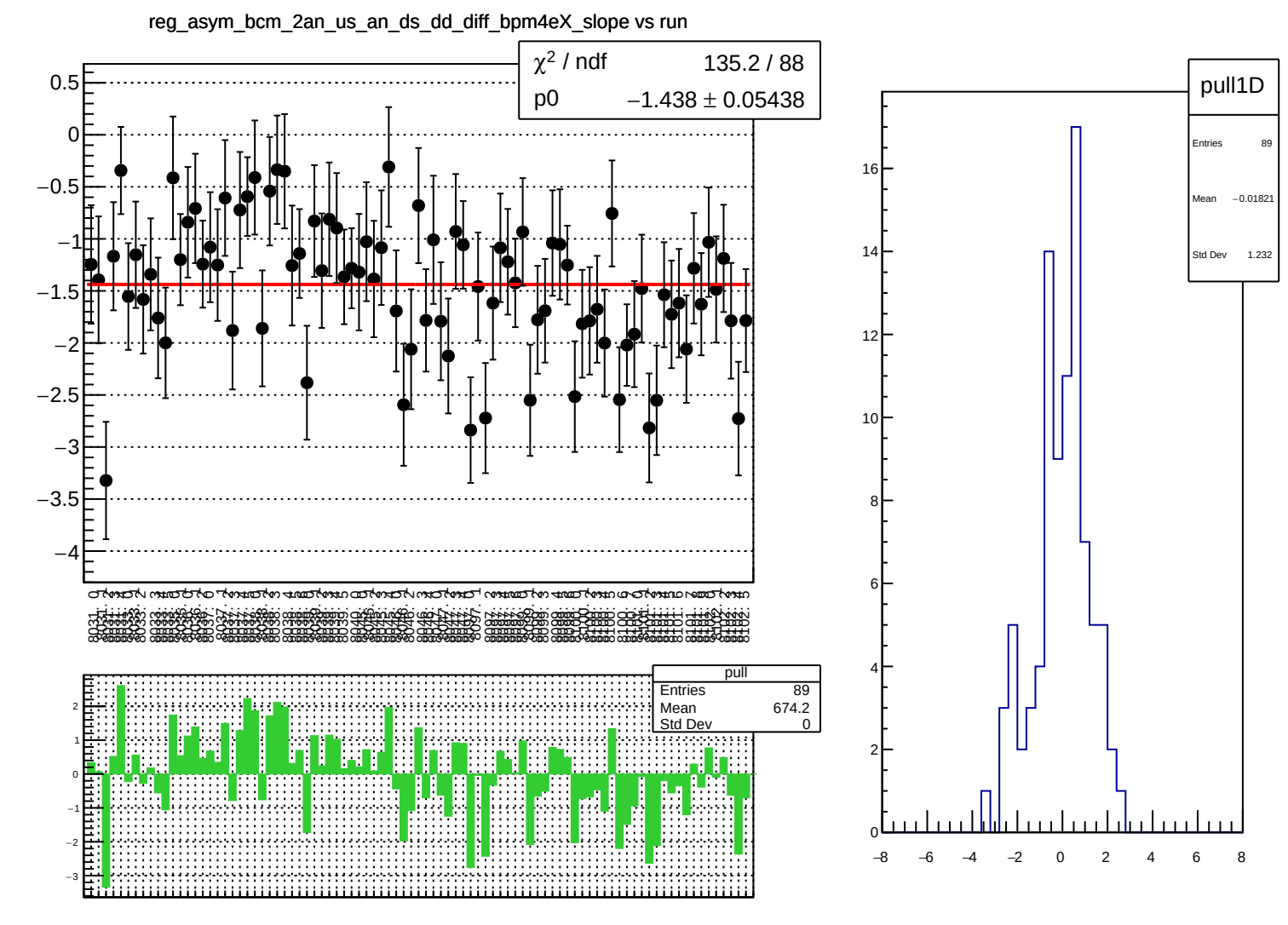

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 127.6 / 88
p0 0.1717 ± 0.01272
pull
Entries 89
Mean −10.53
Std Dev 0

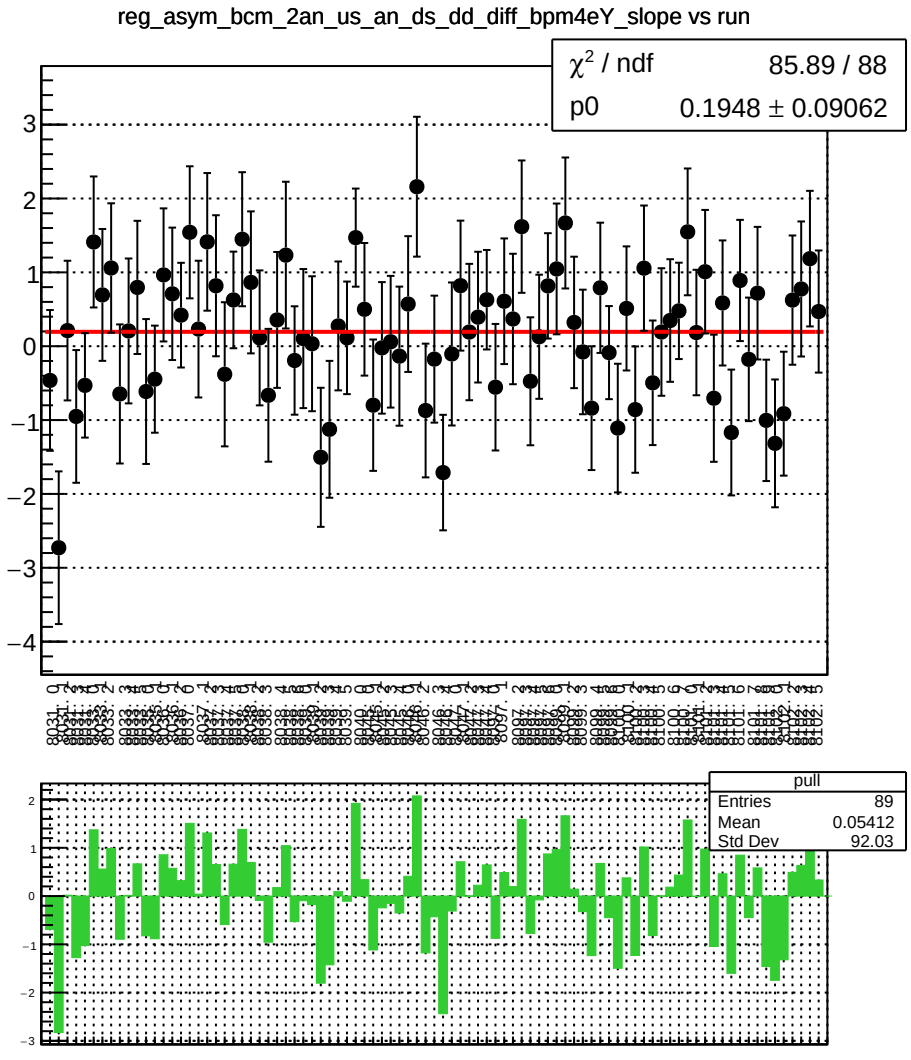

pull1D
Entries 89
Mean −0.0669
Std Dev 1.195

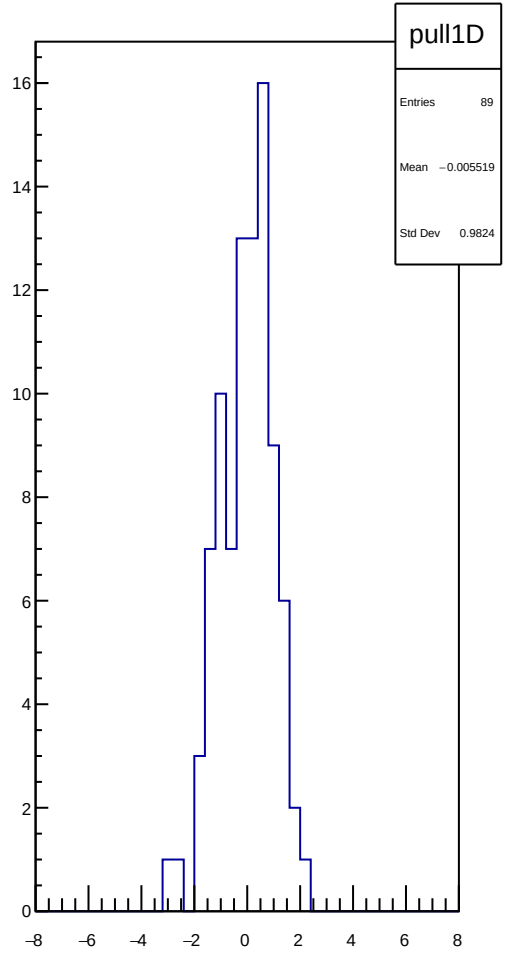

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 148.1 / 88
p0 1.515 ± 0.05138
pull
Entries 89
Mean 231.6
Std Dev 0
pull1D
Entries 89
Mean 0.07248
Std Dev 1.288

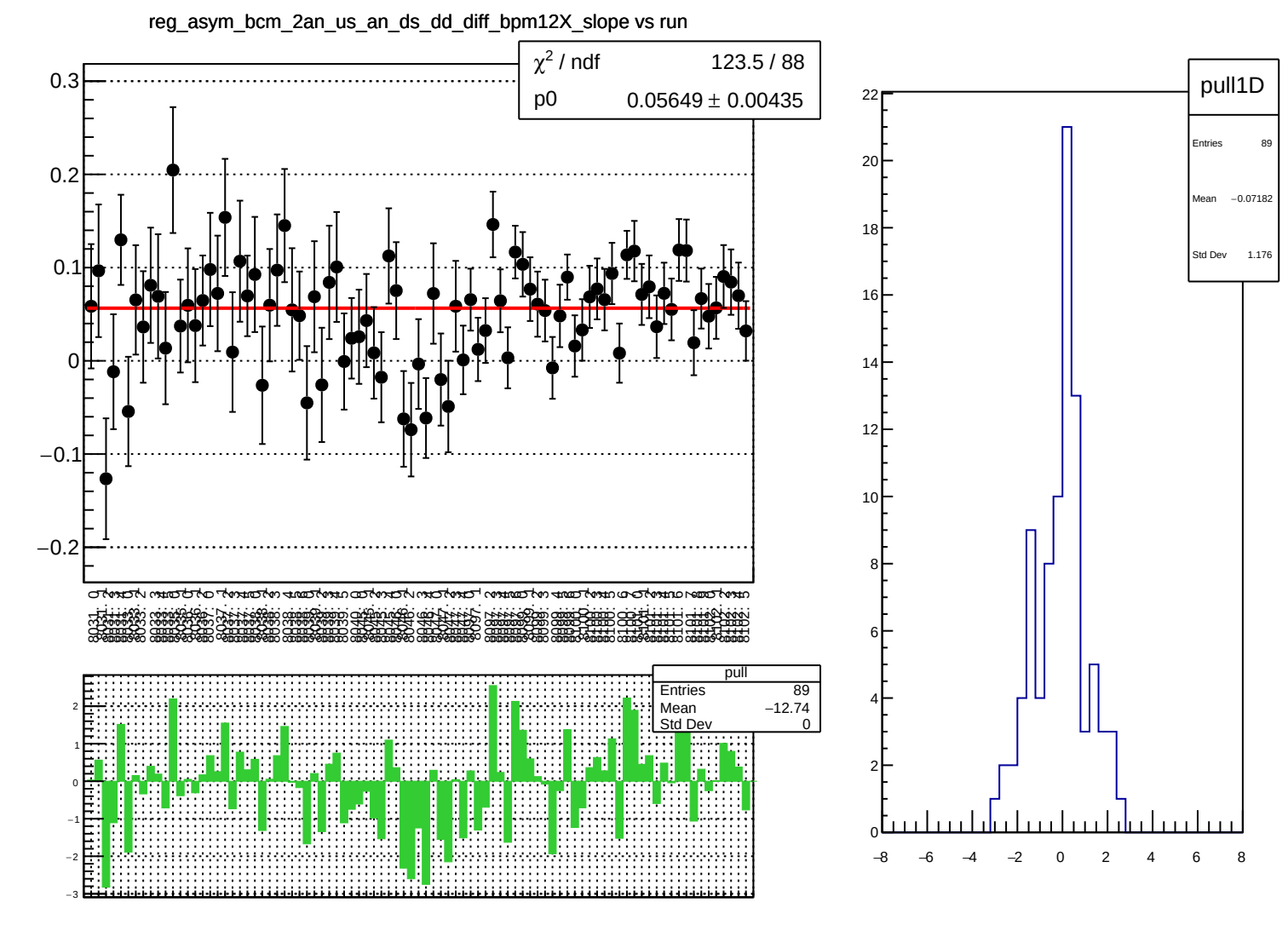

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 87.2 / 88
p0 −0.2341± 0.08528
pull
Entries 89
Mean 191.8
Std Dev 0

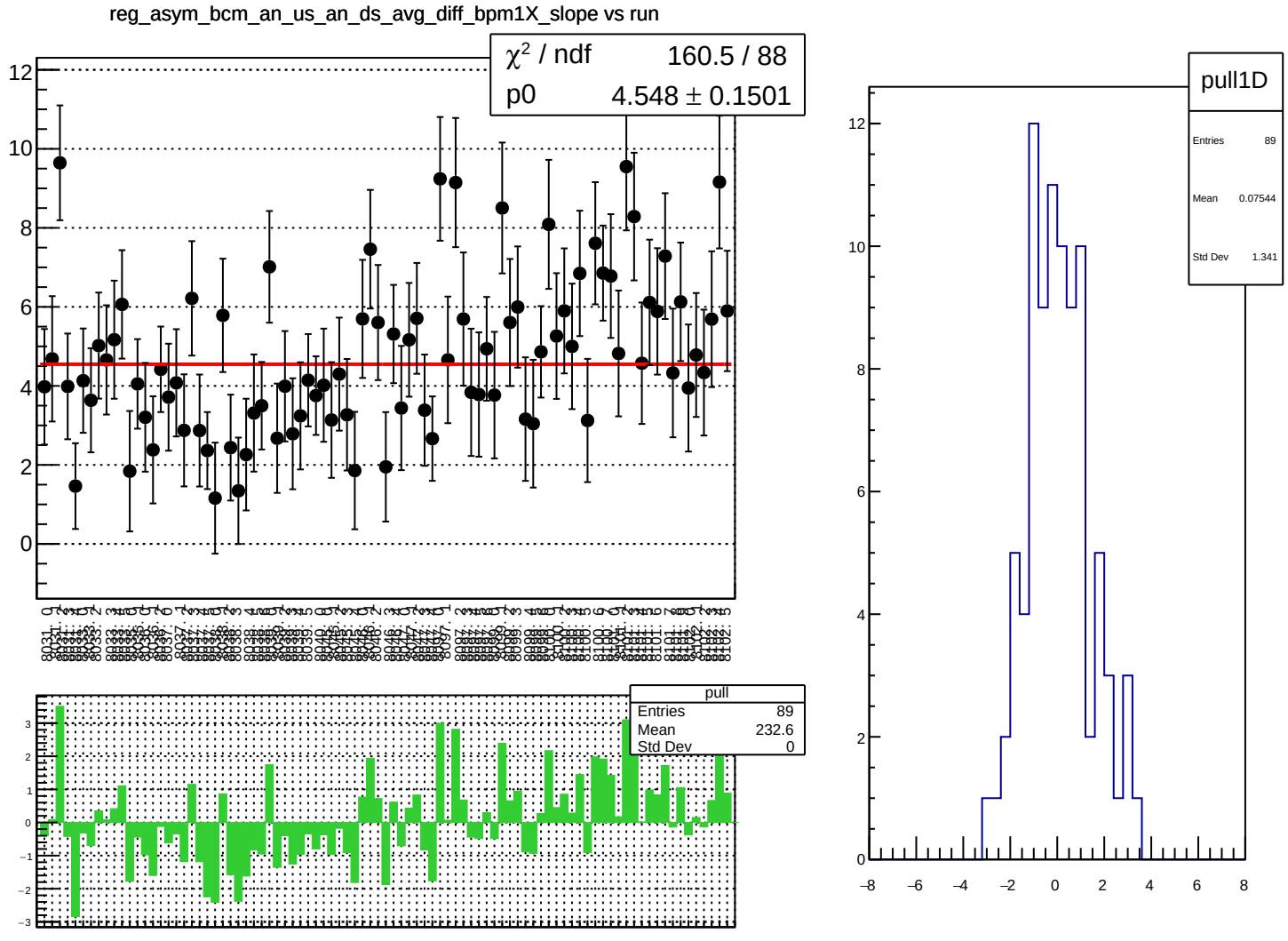

pull1D
Entries 89
Mean 0.005055
Std Dev 0.9898

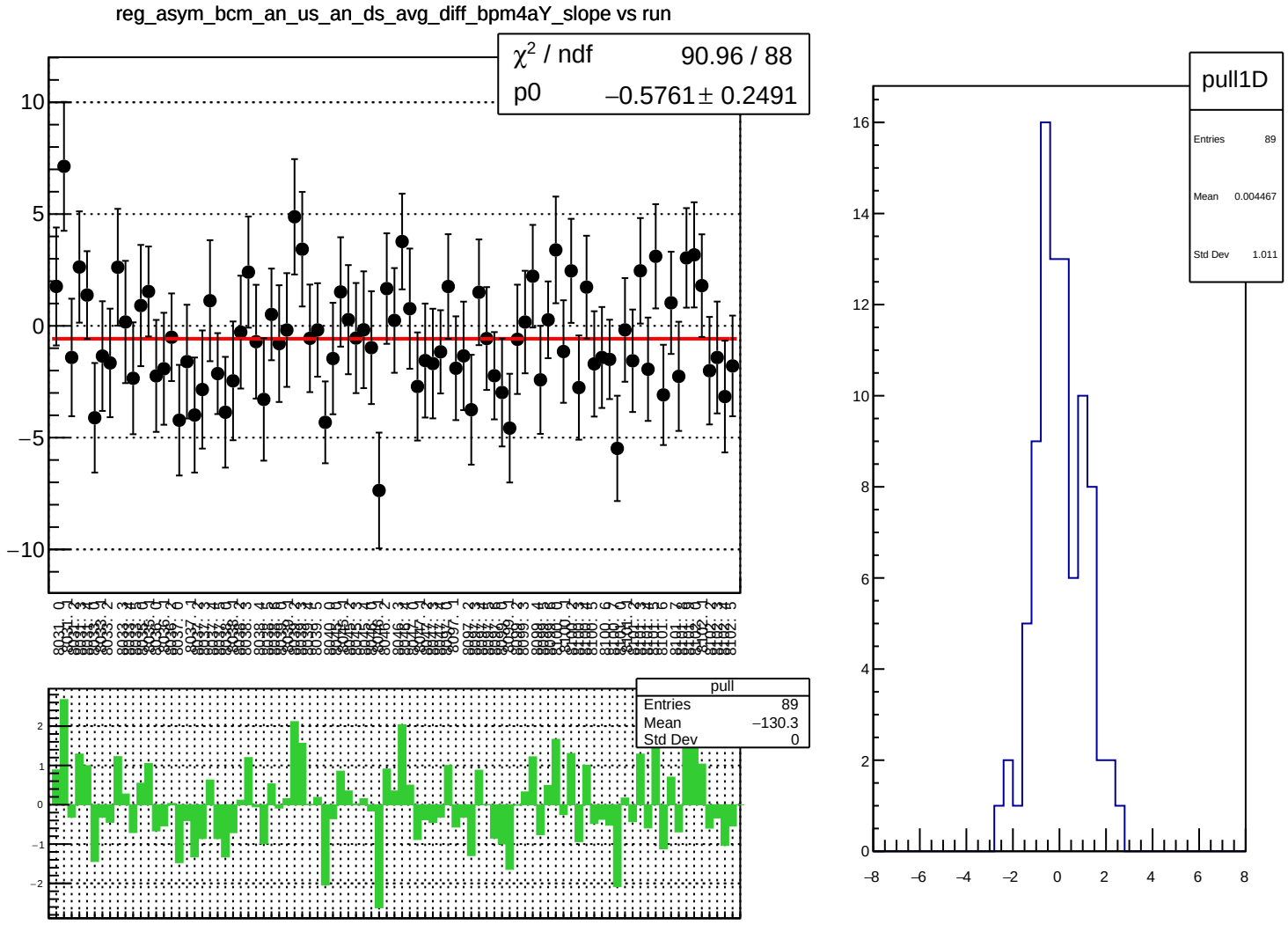

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 135.2 / 88
p0 −1.438 ± 0.05438
pull
Entries 89
Mean 674.2
Std Dev 0
pull1D
Entries 89
Mean −0.01821
Std Dev 1.232

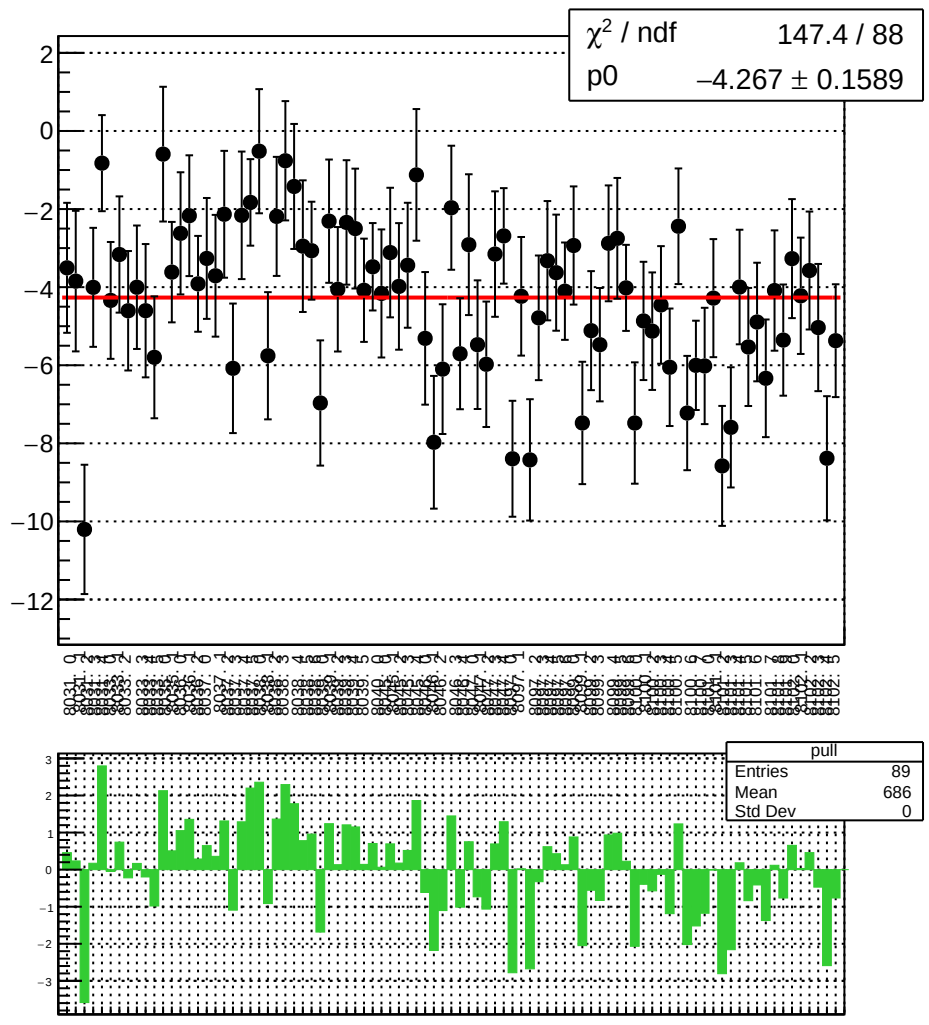

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 85.89 / 88
p0 0.1948 ± 0.09062
pull
Entries 89
Mean 0.05412
Std Dev 92.03

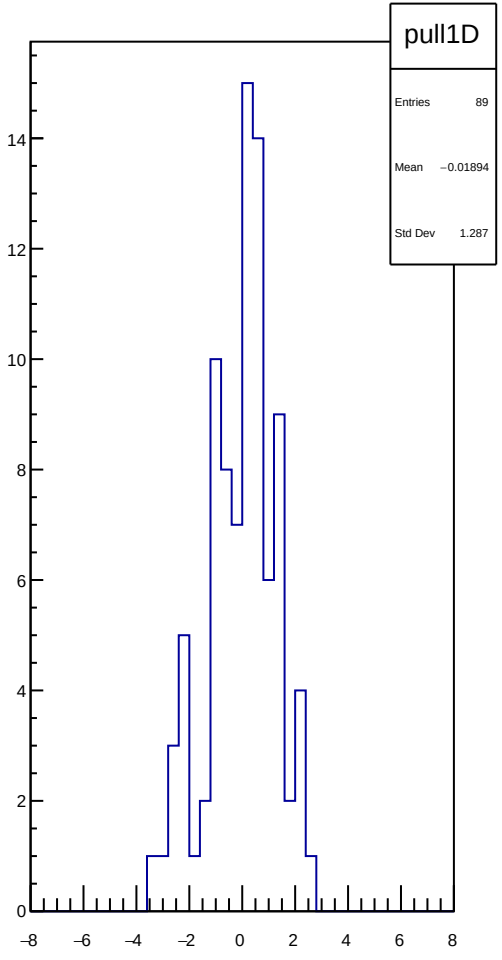

pull1D
Entries 89
Mean −0.005519
Std Dev 0.9824

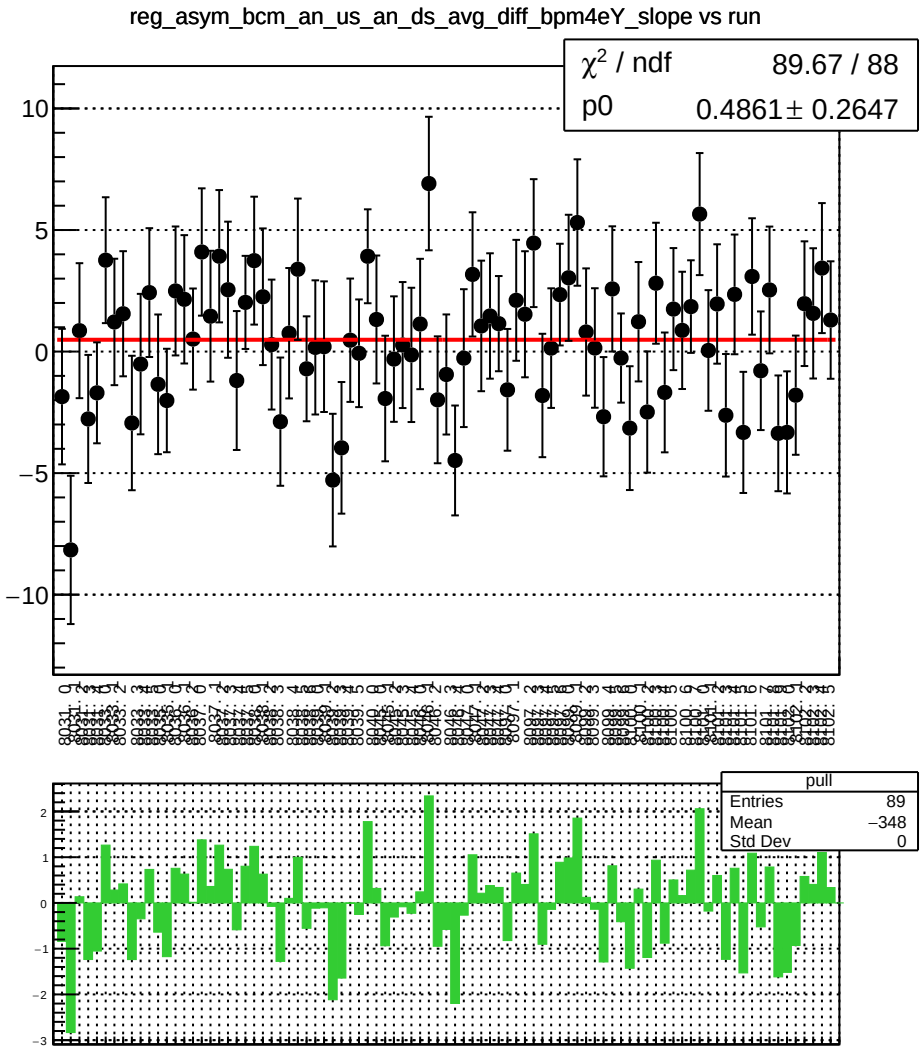

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 123.5 / 88
p0 0.05649 ± 0.00435
pull
Entries 89
Mean −12.74
Std Dev 0
pull1D
Entries 89
Mean −0.07182
Std Dev 1.176

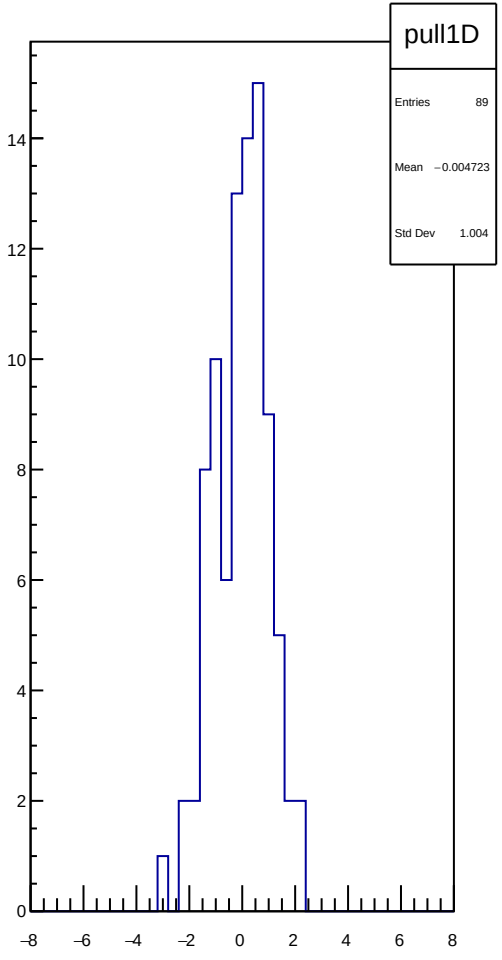

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 160.5 / 88
p0 4.548 ± 0.1501
pull
Entries 89
Mean 232.6
Std Dev 0
pull1D
Entries 89
Mean 0.07544
Std Dev 1.341

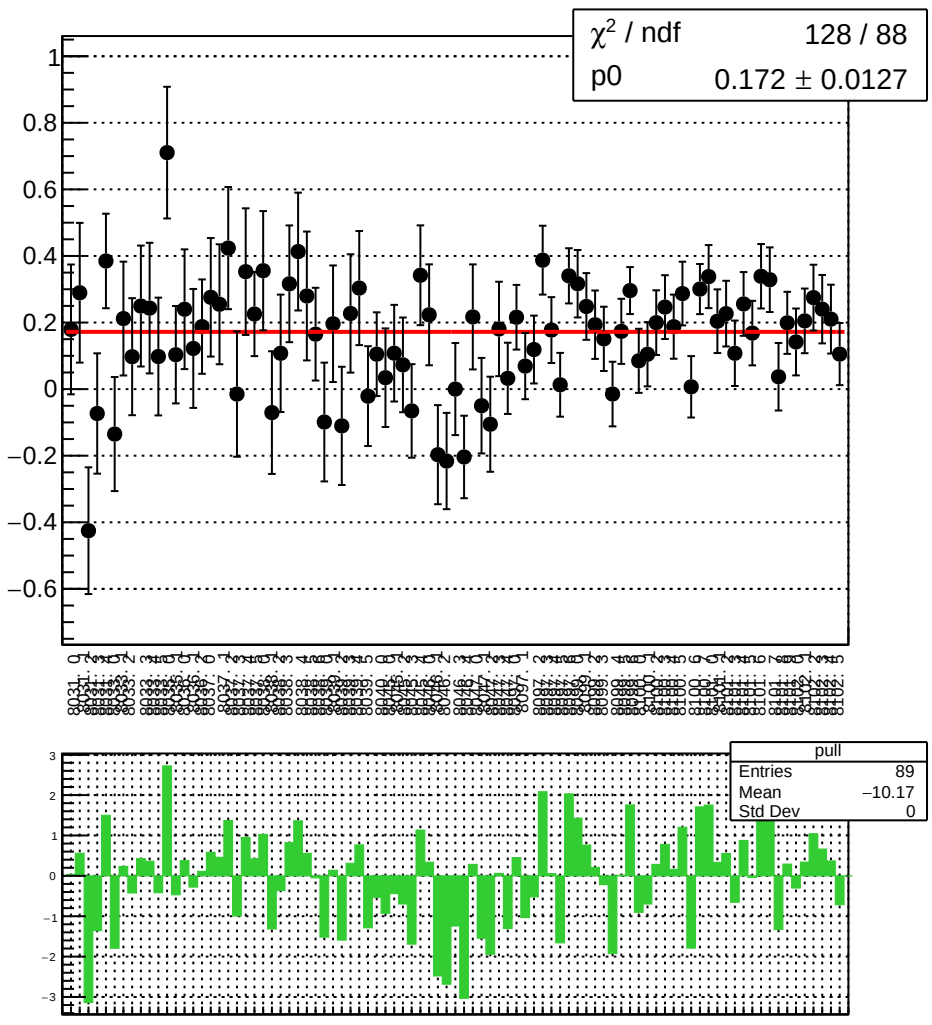

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 90.96 / 88
p0 −0.5761 ± 0.2491
pull
Entries 89
Mean −130.3
Std Dev 0
pull1D
Entries 89
Mean 0.004467
Std Dev 1.011

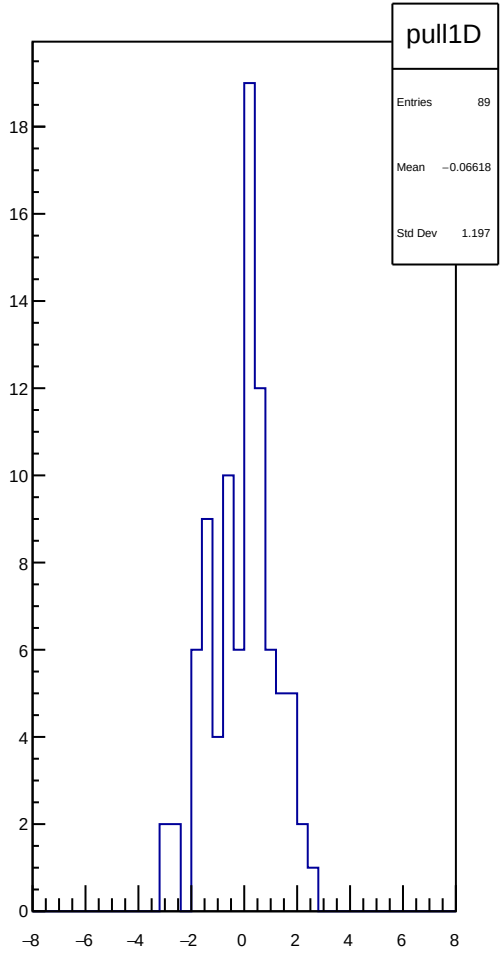

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 147.4 / 88
p0 −4.267 ± 0.1589
pull
Entries 89
Mean 686
Std Dev 0

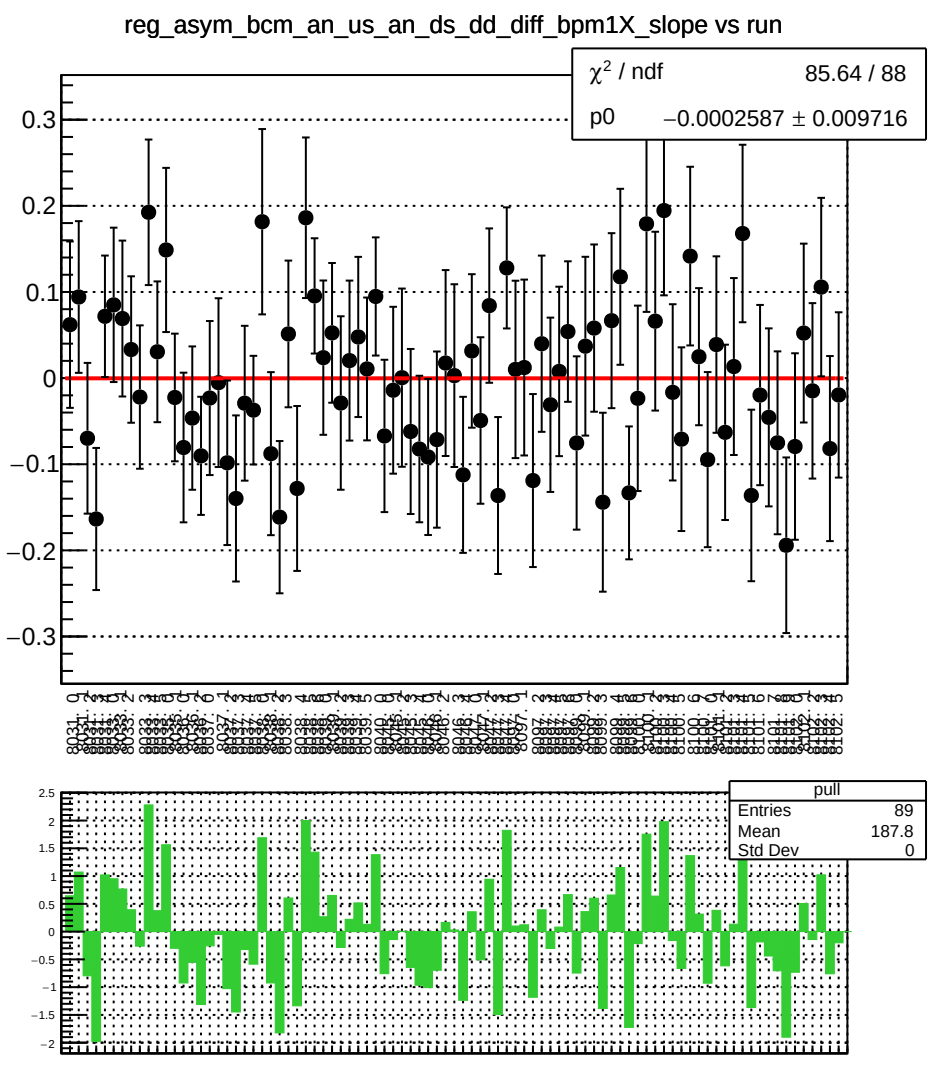

pull1D
Entries 89
Mean −0.01894
Std Dev 1.287

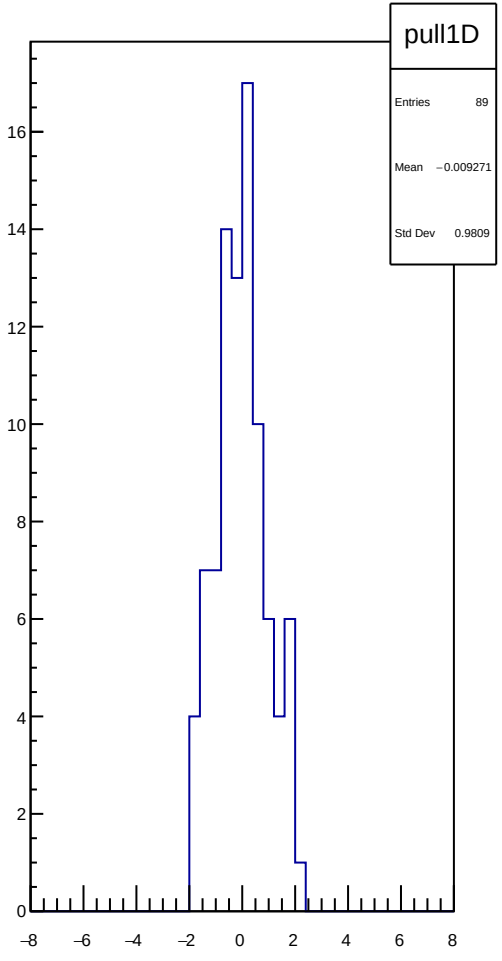

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 89.67 / 88
p0 0.4861± 0.2647
pull
Entries 89
Mean −348
Std Dev 0

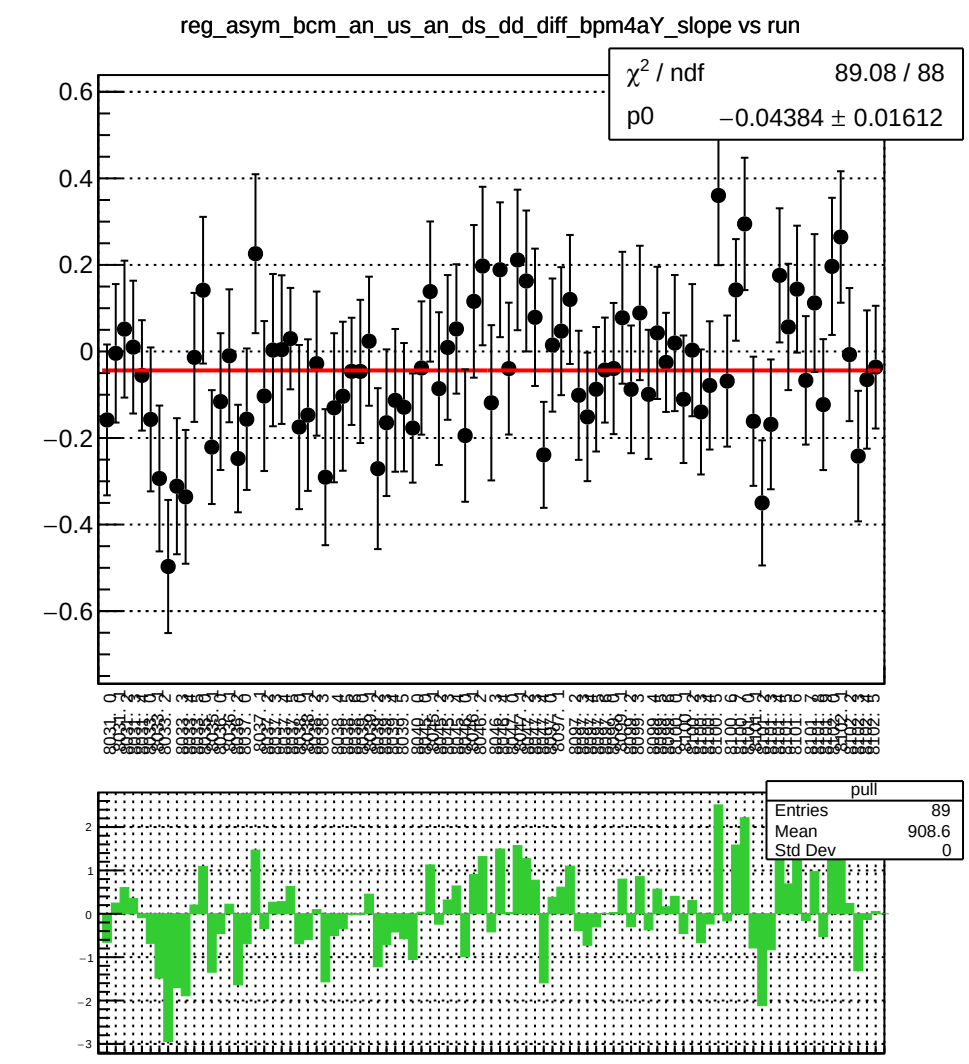

pull1D
Entries 89
Mean −0.004723
Std Dev 1.004

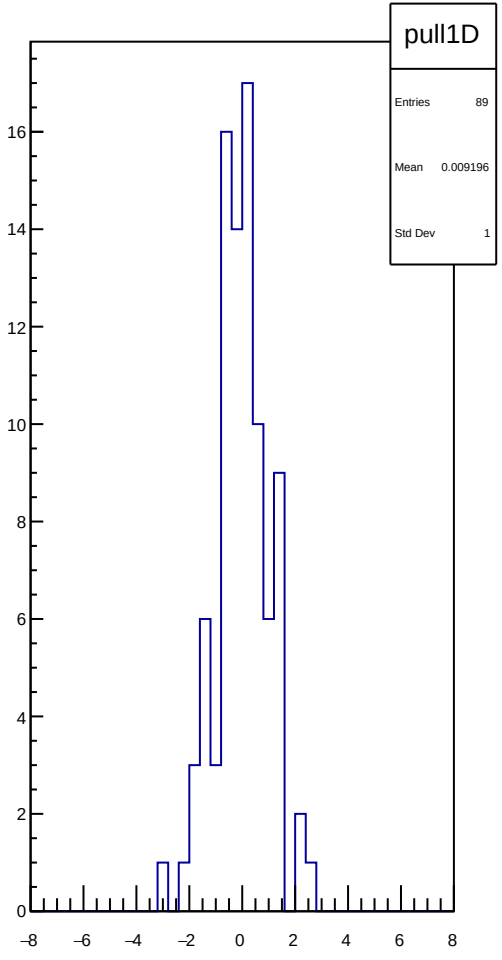

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 128 / 88
p0 0.172 ± 0.0127
pull
Entries 89
Mean −10.17
Std Dev 0

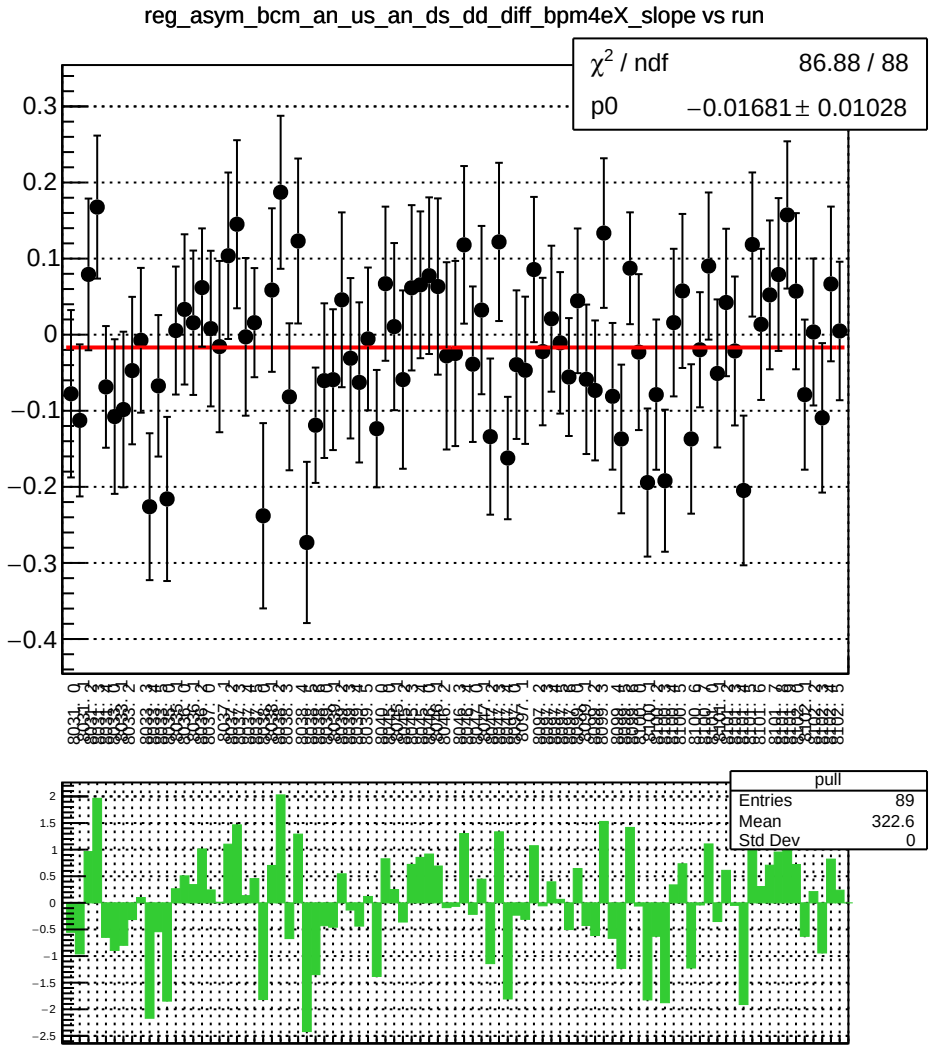

pull1D
Entries 89
Mean −0.06618
Std Dev 1.197

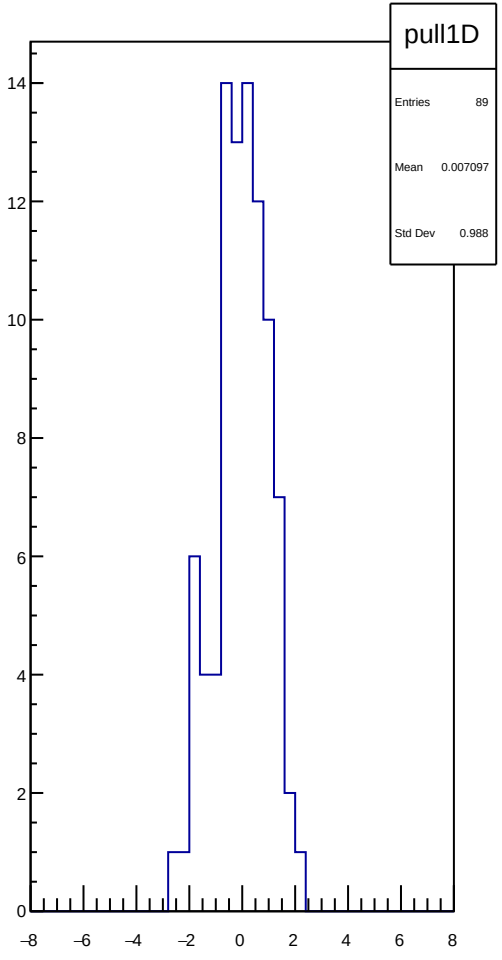

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 85.64 / 88
p0 −0.0002587 ± 0.009716
pull
Entries 89
Mean 187.8
Std Dev 0

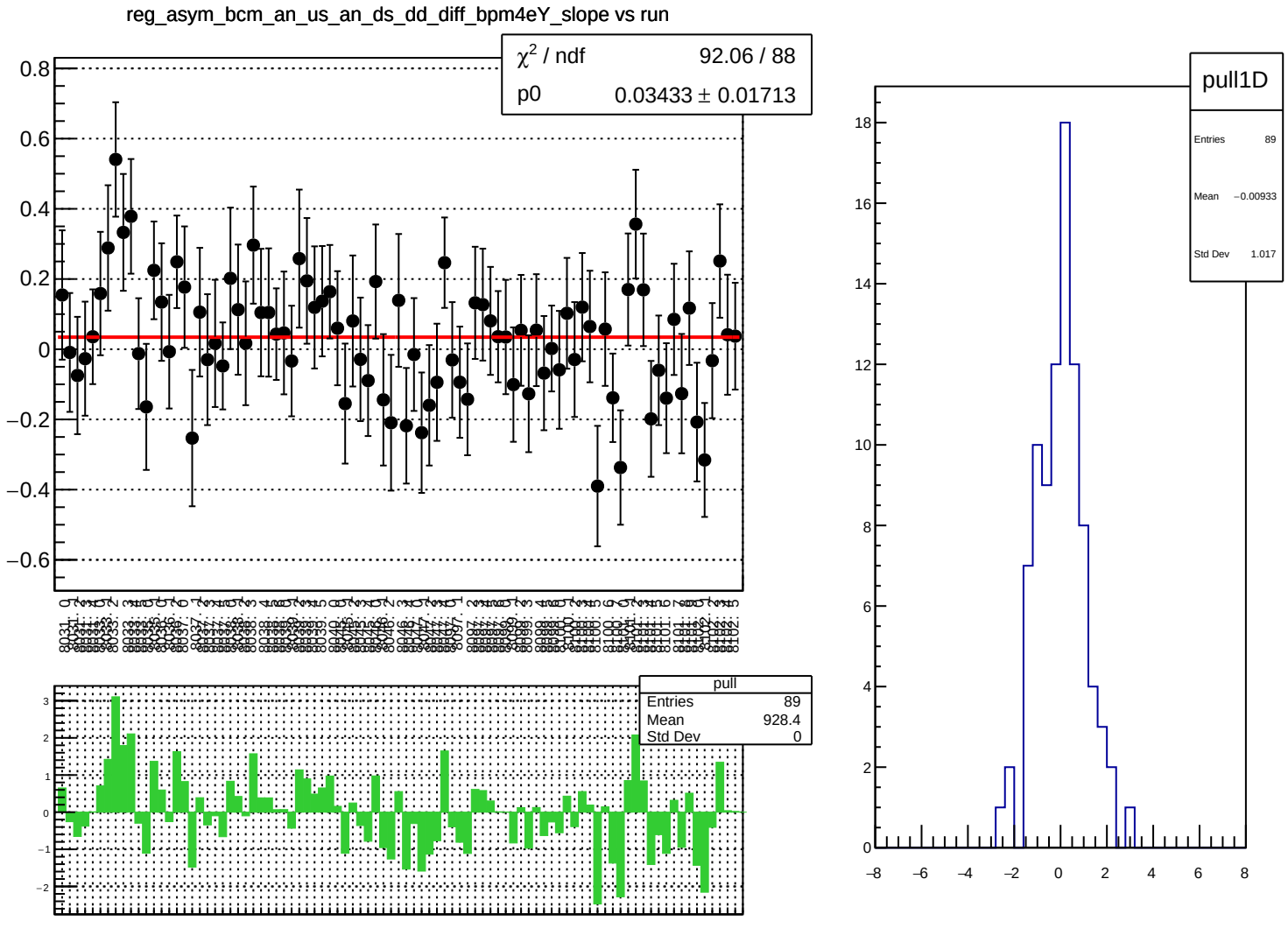

pull1D
Entries 89
Mean −0.009271
Std Dev 0.9809

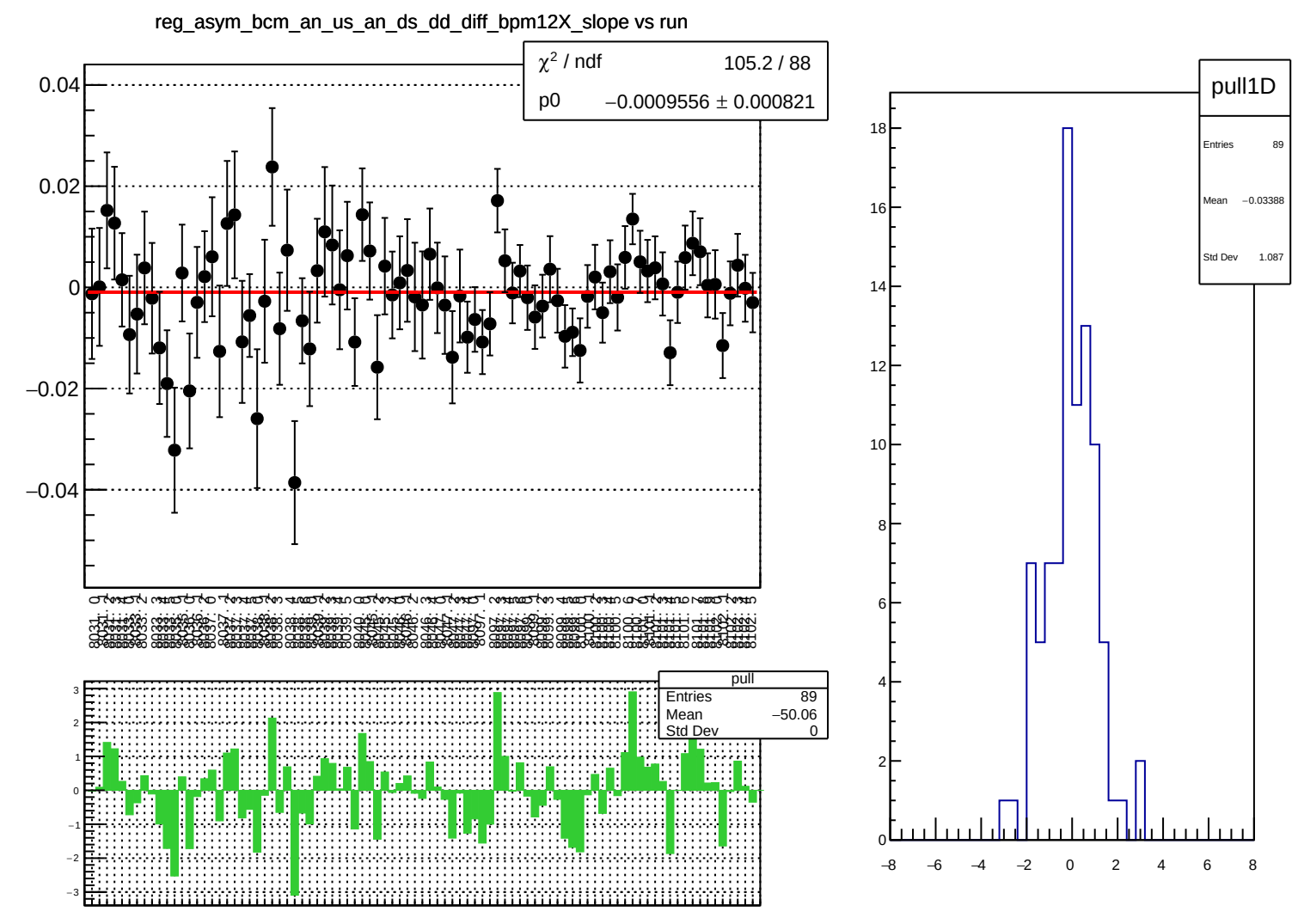

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 89.08 / 88
p0 −0.04384 ± 0.01612
pull
Entries 89
Mean 908.6
Std Dev 0

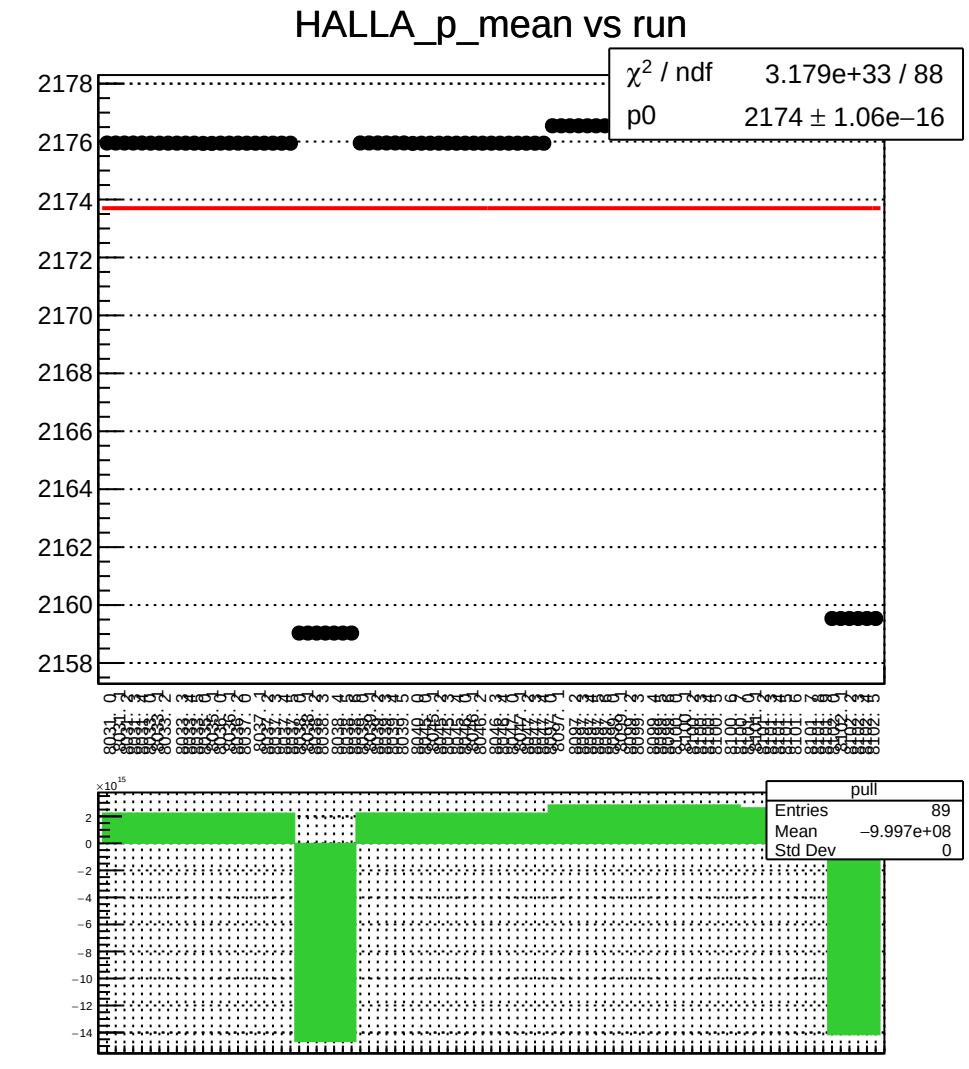

pull1D
Entries 89
Mean 0.009196
Std Dev 1

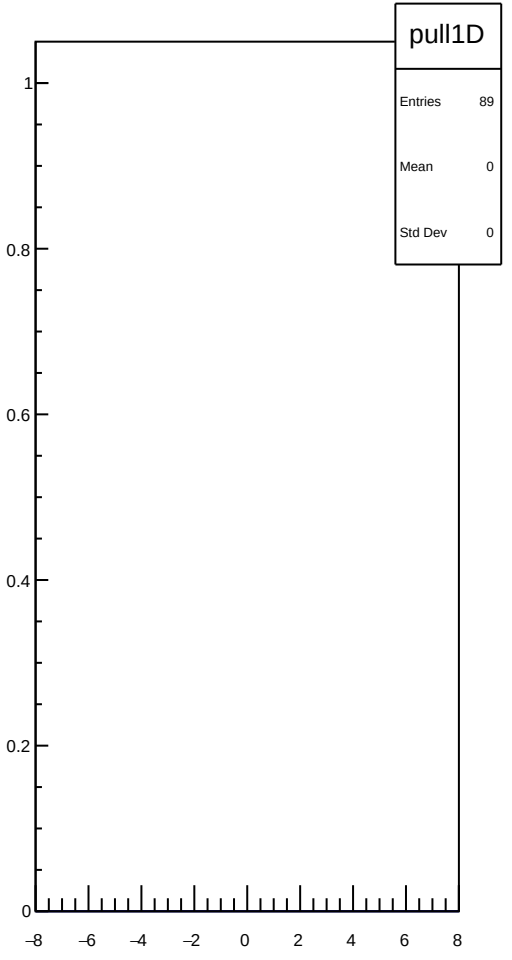

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 86.88 / 88
p0 −0.01681 ± 0.01028
pull
Entries 89
Mean 322.6
Std Dev 0

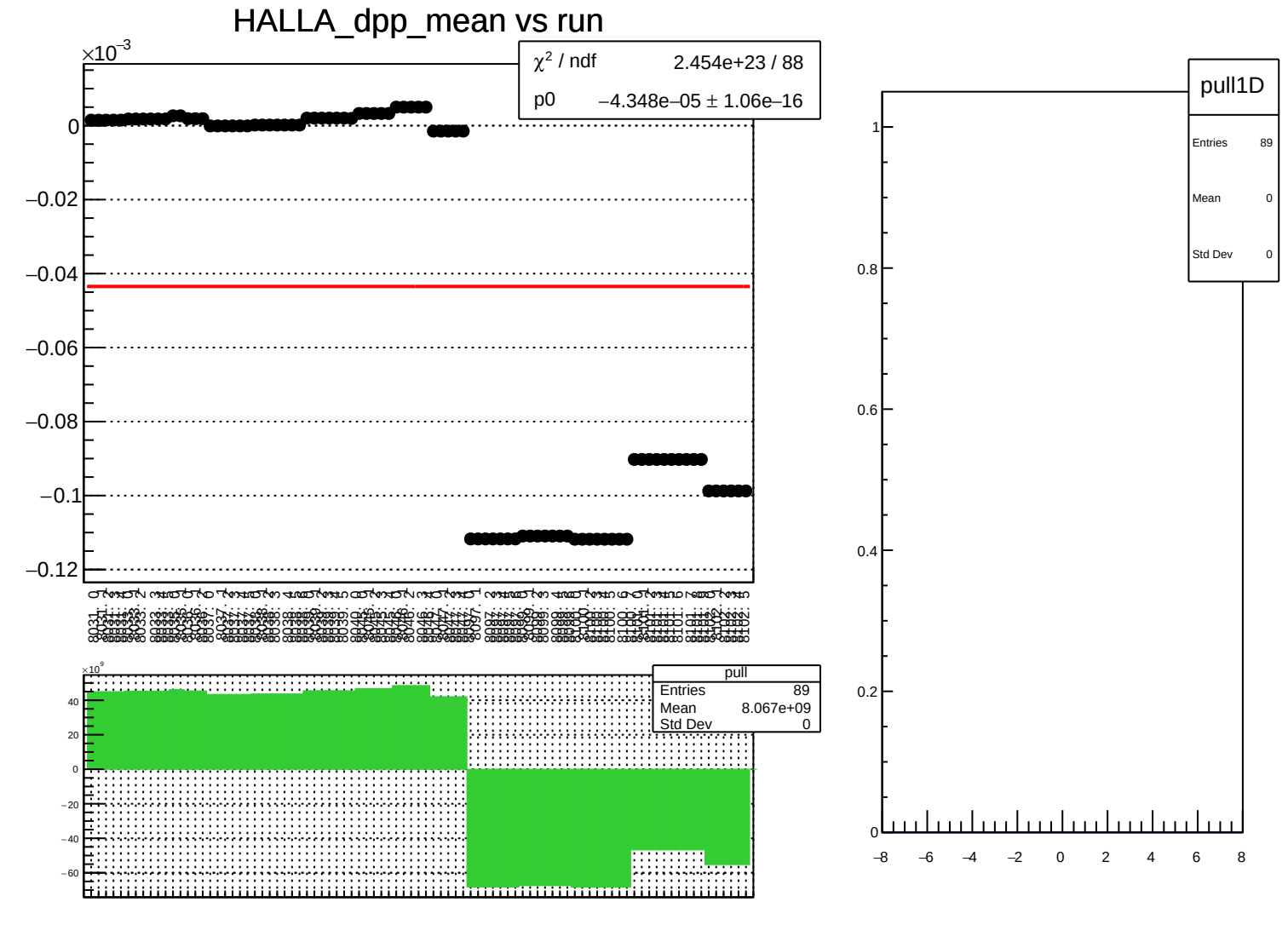

pull1D
Entries 89
Mean 0.007097
Std Dev 0.988

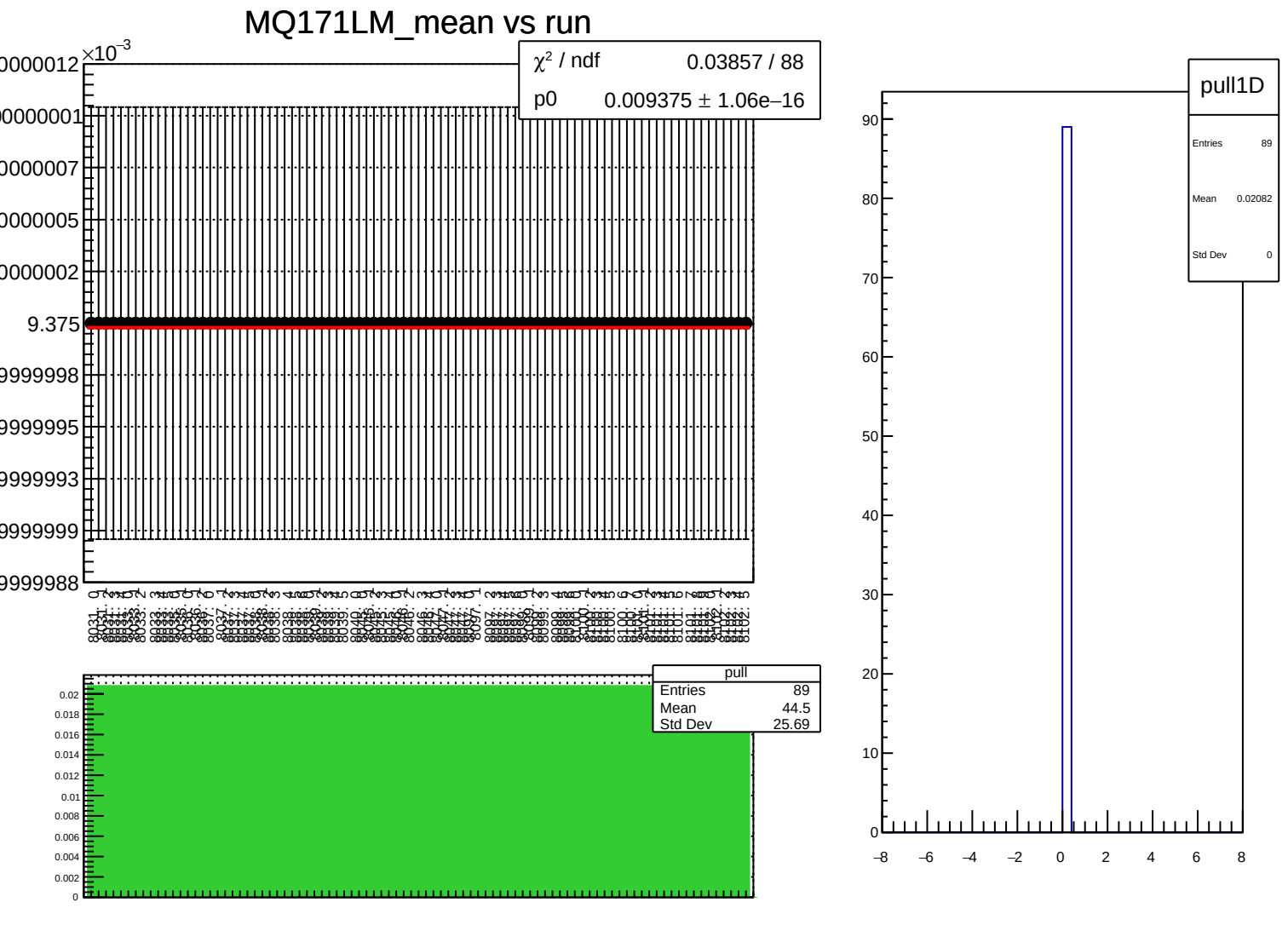

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 92.06 / 88
p0 0.03433 ± 0.01713
pull
Entries 89
Mean 928.4
Std Dev 0
pull1D
Entries 89
Mean −0.00933
Std Dev 1.017

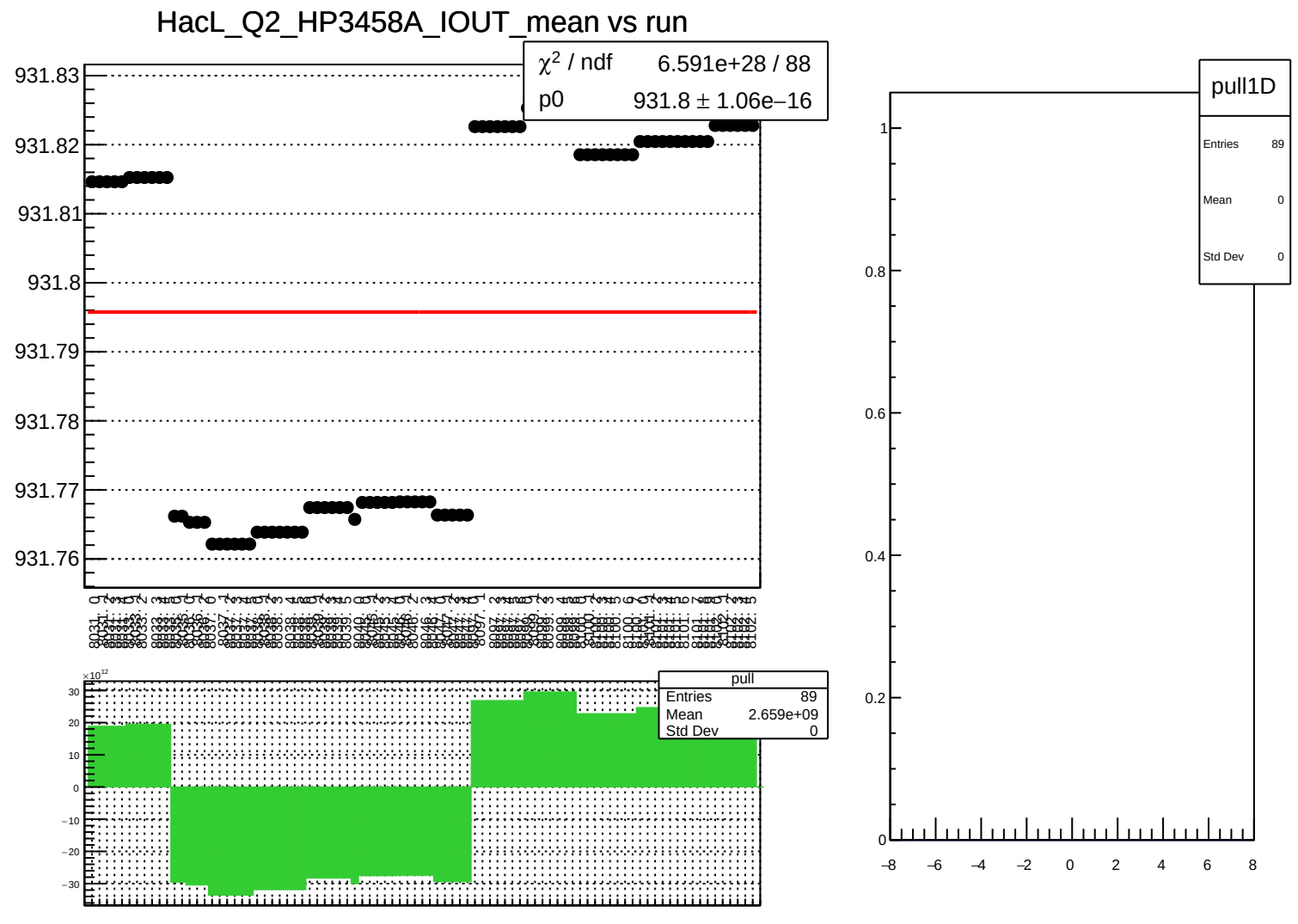

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 105.2 / 88
p0 −0.0009556 ± 0.000821
0.04
0.02
0
−0.02
−0.04
pull
Entries 89
Mean −50.06
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.03388
Std Dev 1.087
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

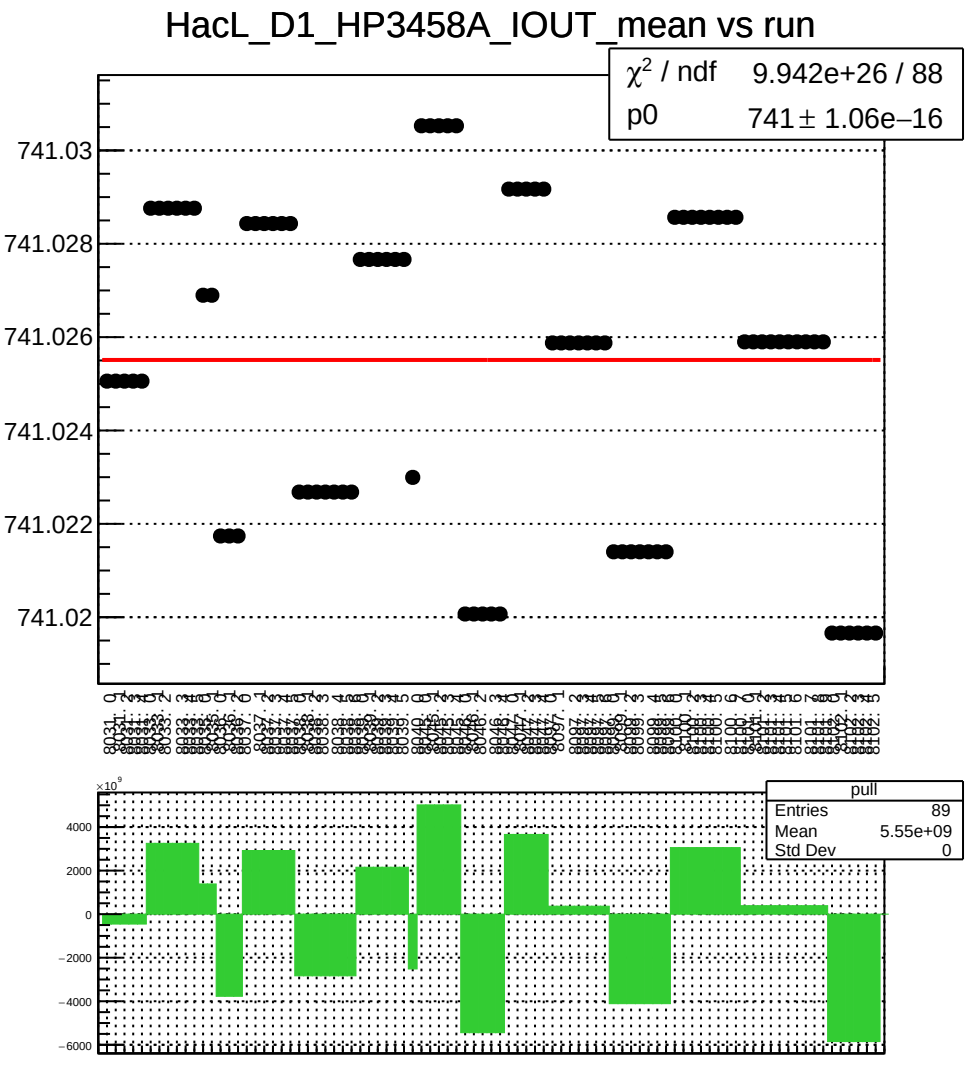

HALLA_p_mean vs run
χ² / ndf 3.179e+33 / 88
p0 2174 ± 1.06e−16
2178
2176
2174
2172
2170
2168
2166
2164
2162
2160
2158
pull
Entries 89
Mean −9.997e+08
Std Dev 0
×10¹⁵
2
0
−2
−4
−6
−8
−10
−12
−14

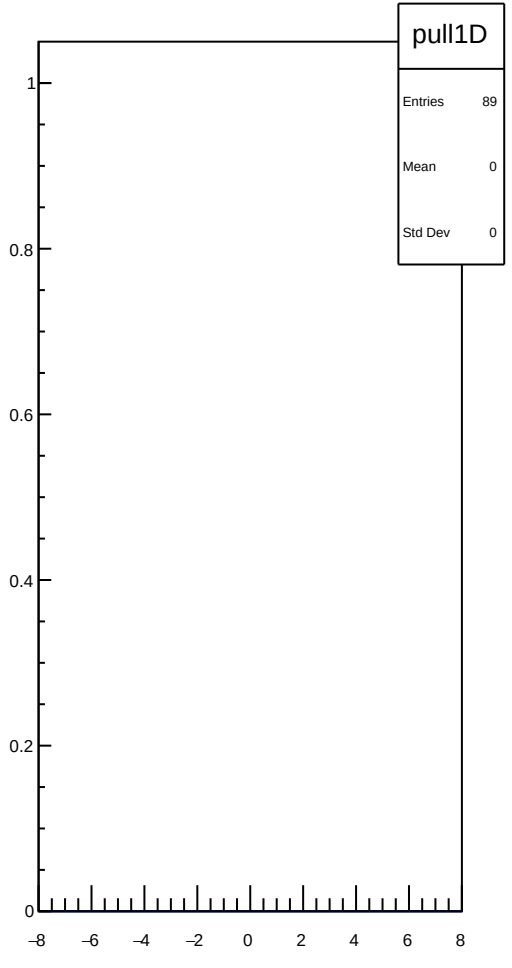

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

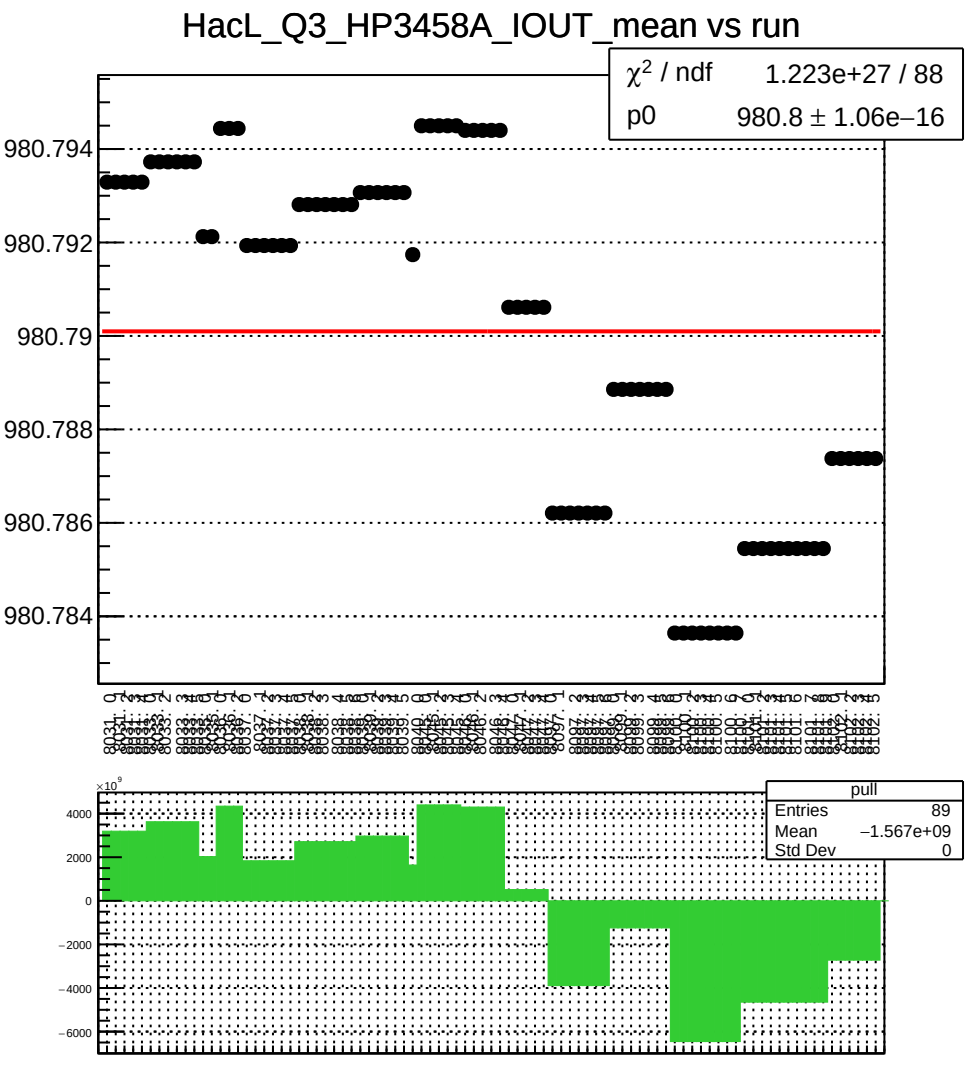

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 2.454e+23 / 88
p0 −4.348e−05 ± 1.06e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
×10⁹
40
20
0
−20
−40
−60
pull
Entries 89
Mean 8.067e+09
Std Dev 0
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

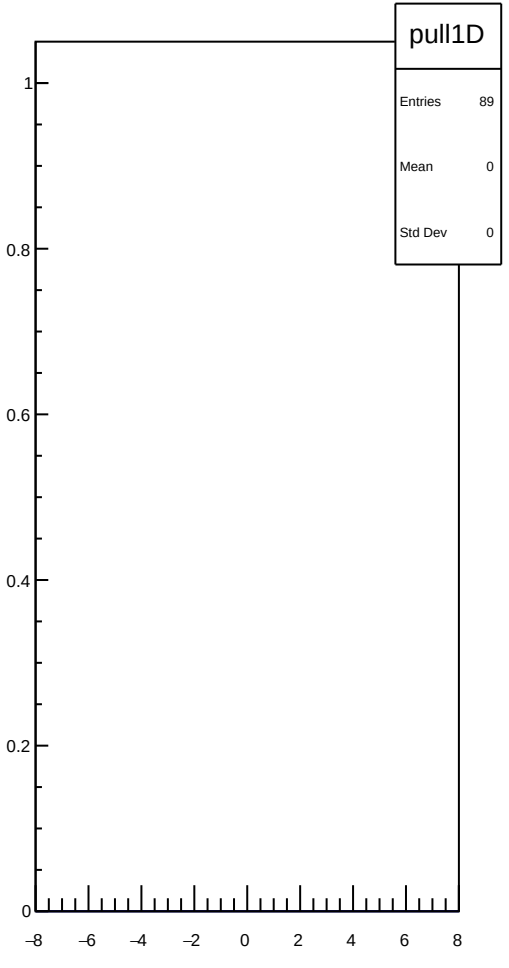

MQ171LM_mean vs run
χ² / ndf 0.03857 / 88
p0 0.009375 ± 1.06e−16
×10⁻³
pull
Entries 89
Mean 44.5
Std Dev 25.69
pull1D
Entries 89
Mean 0.02082
Std Dev 0

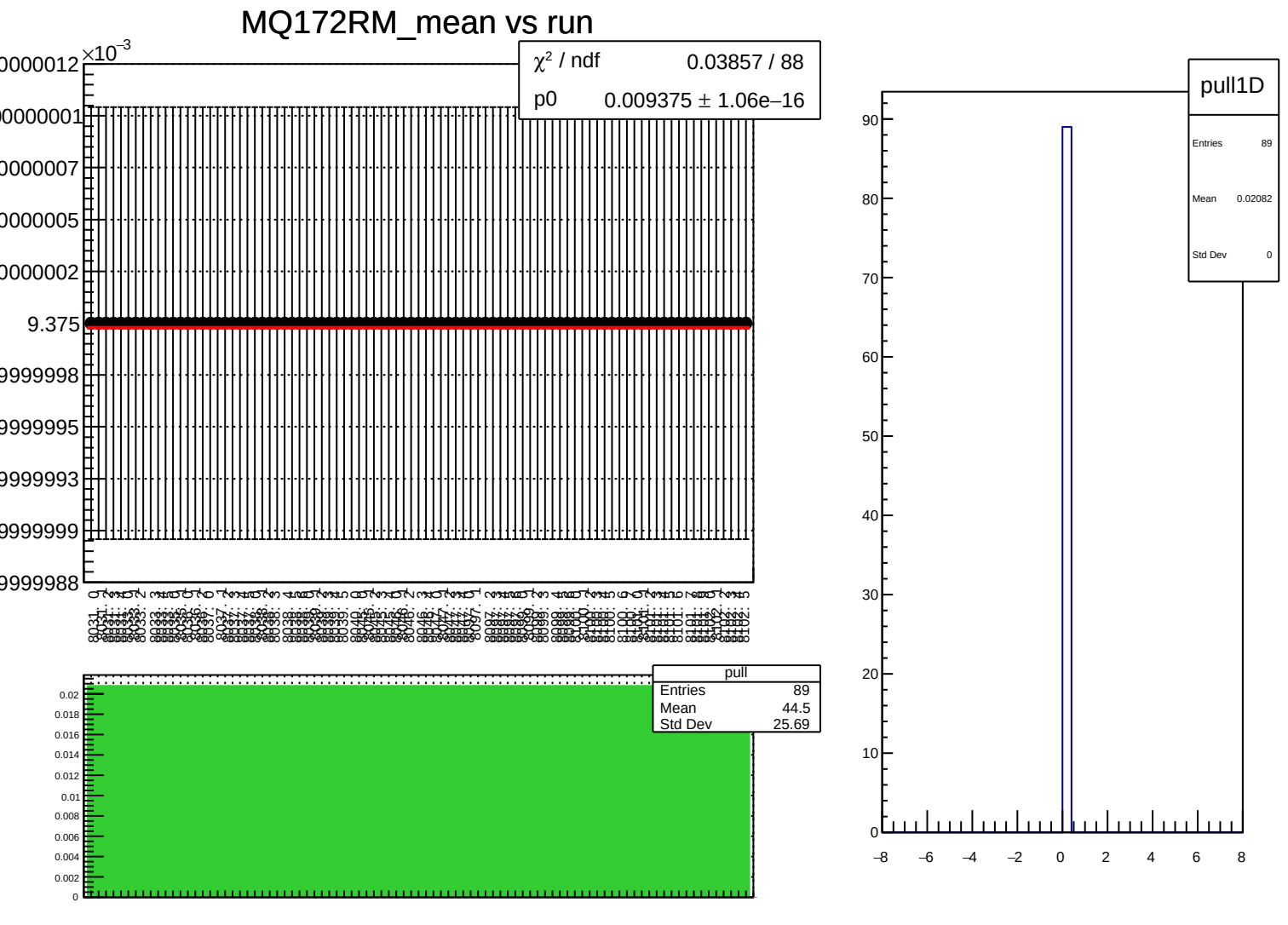

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 6.591e+28 / 88
p0 931.8 ± 1.06e−16
931.83
931.82
931.81
931.8
931.79
931.78
931.77
931.76
pull
Entries 89
Mean 2.659e+09
Std Dev 0
×10¹²
30
20
10
0
−10
−20
−30
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

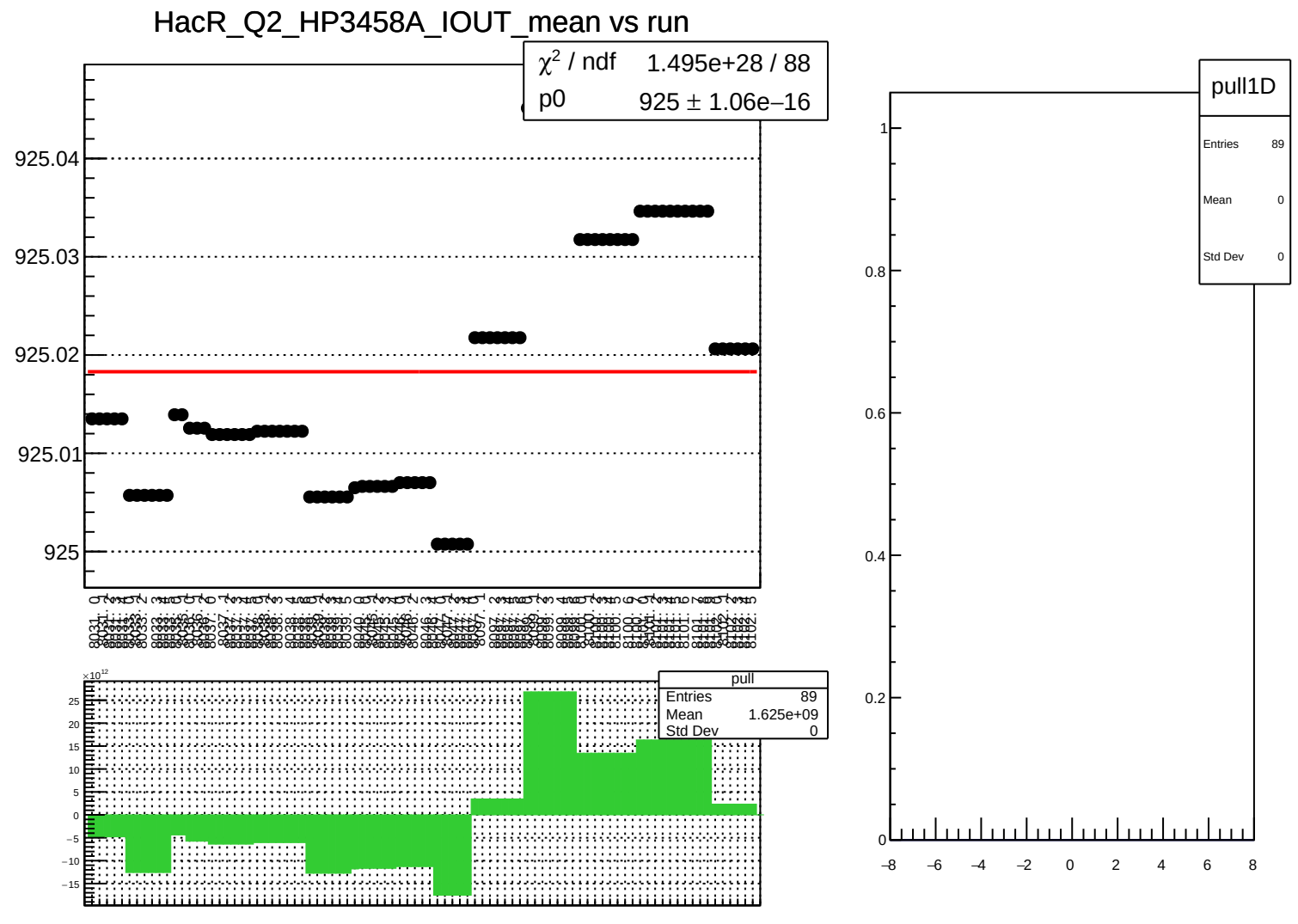

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 9.942e+26 / 88
p0 741 ± 1.06e−16
741.03
741.028
741.026
741.024
741.022
741.02
×10⁹
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 5.55e+09
Std Dev 0

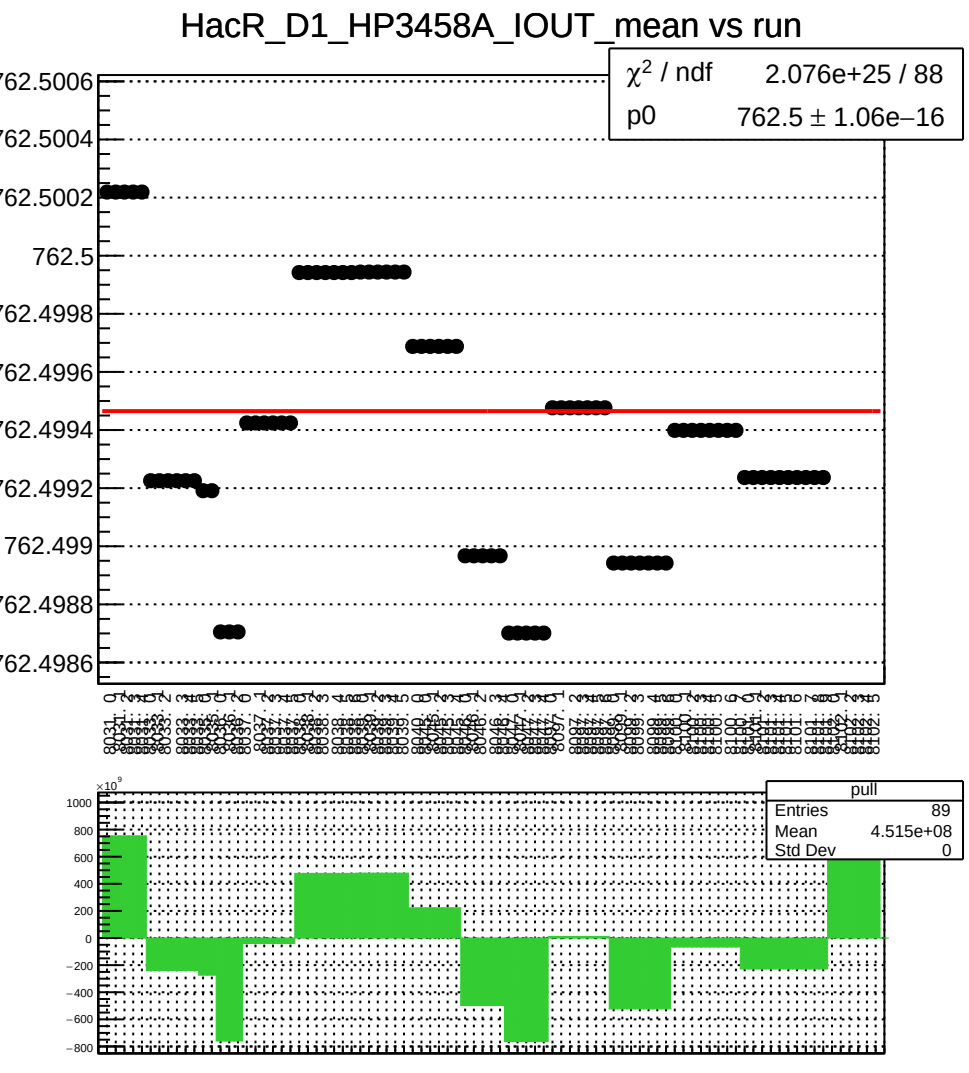

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

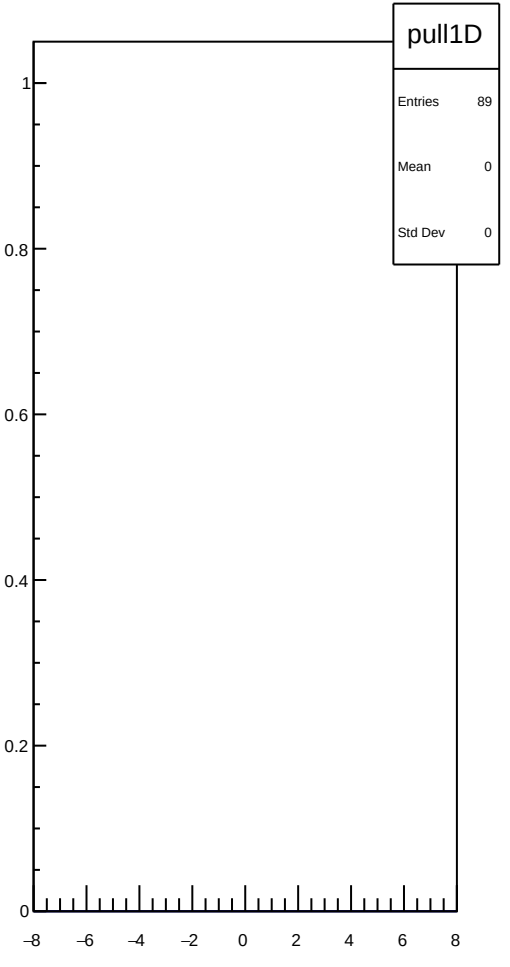

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.223e+27 / 88
p0 980.8 ± 1.06e−16
980.794
980.792
980.79
980.788
980.786
980.784
×10⁹
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −1.567e+09
Std Dev 0

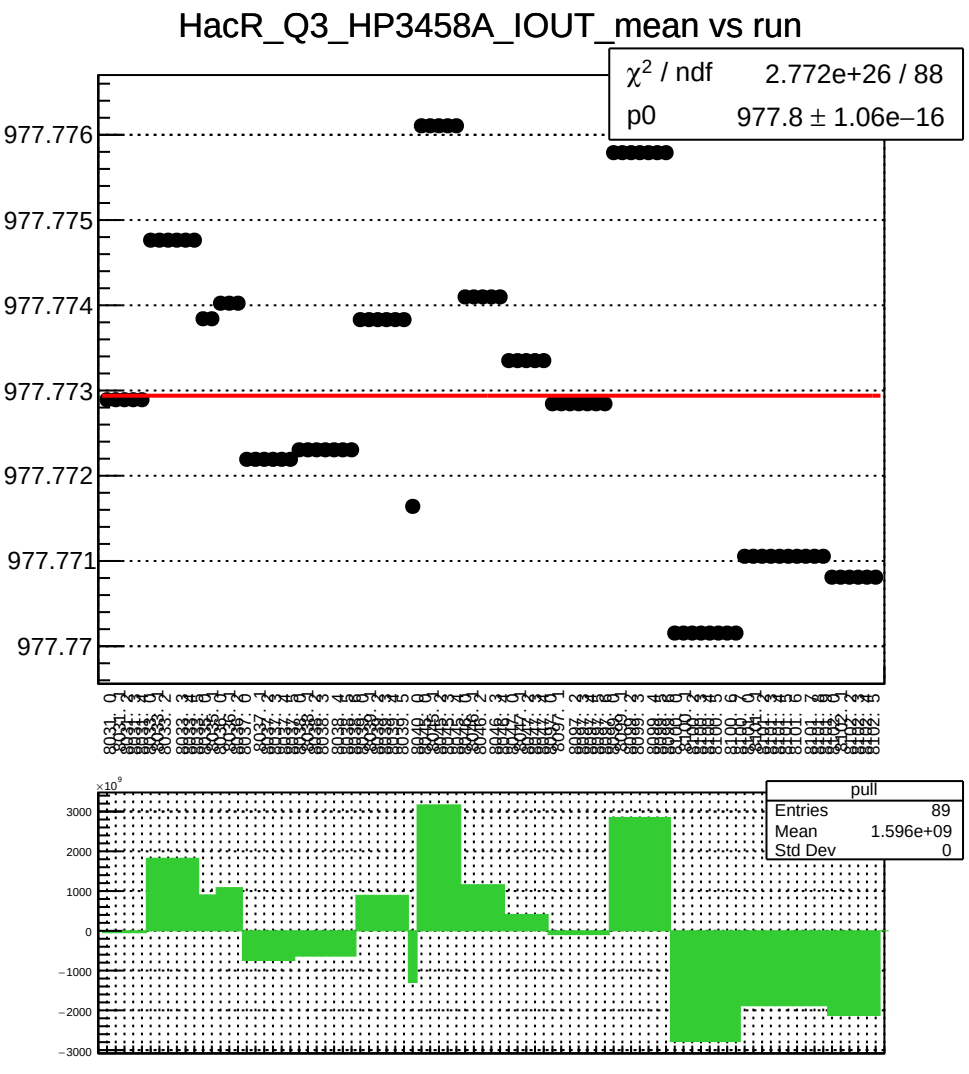

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

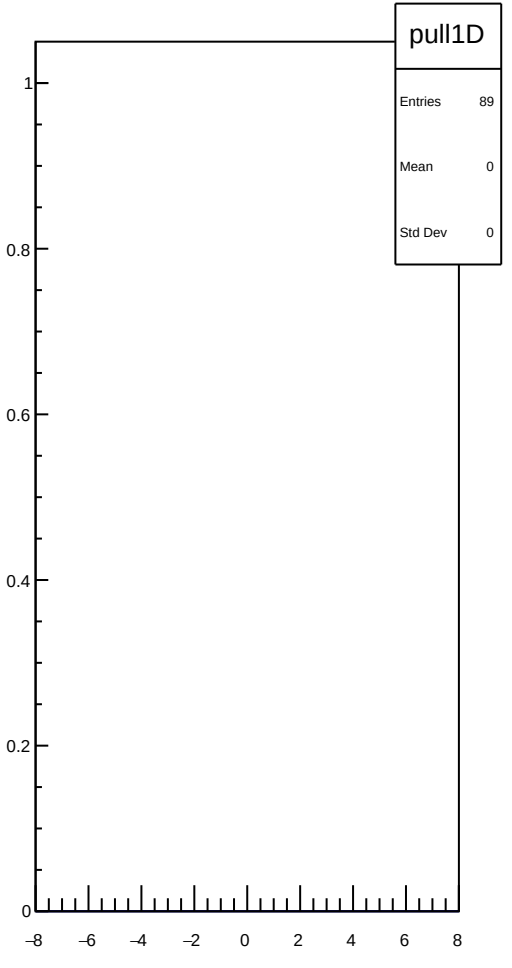

MQ172RM_mean vs run
×10⁻³
χ² / ndf 0.03857 / 88
p0 0.009375 ± 1.06e−16
pull
Entries 89
Mean 44.5
Std Dev 25.69
pull1D
Entries 89
Mean 0.02082
Std Dev 0

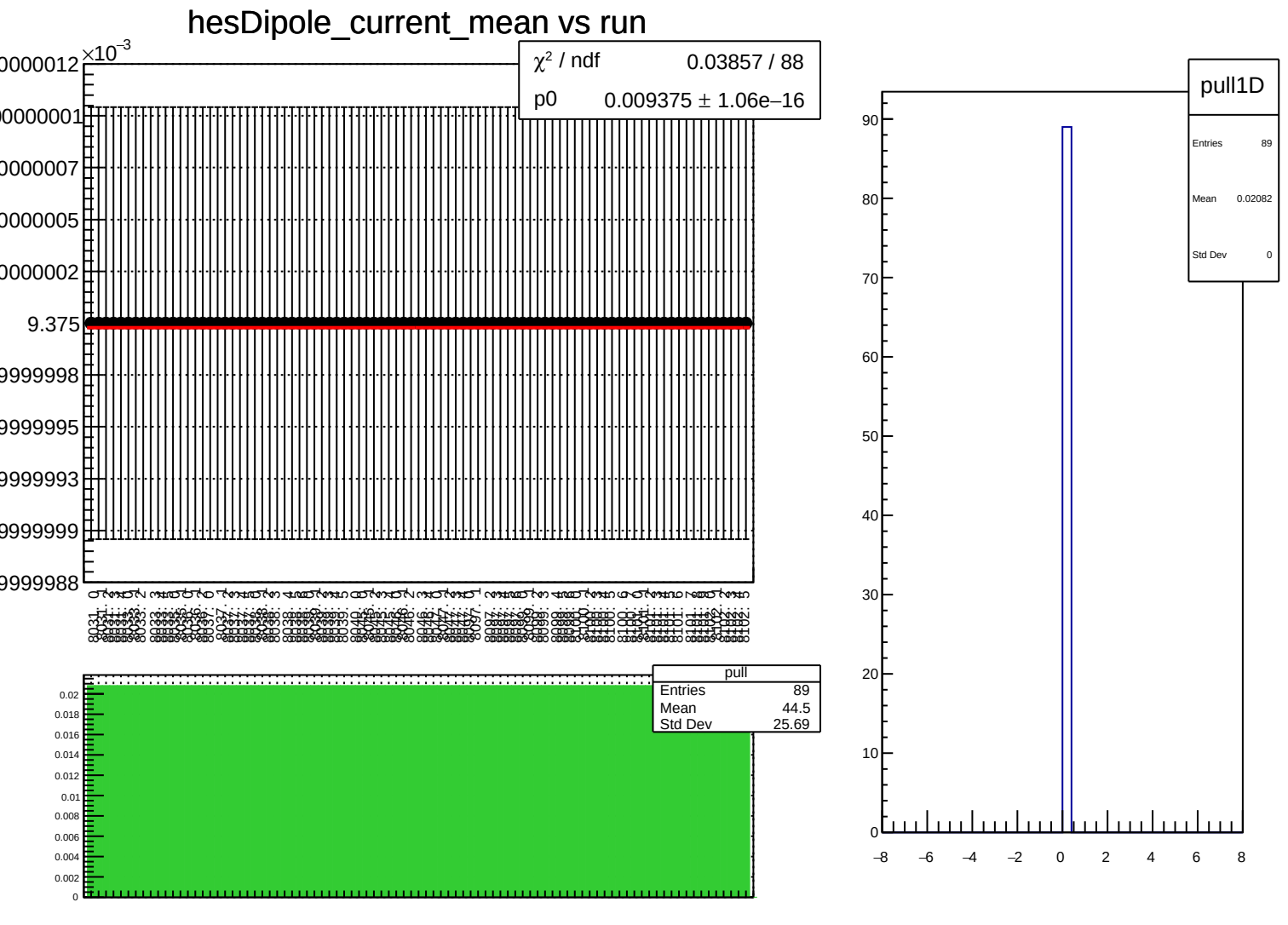

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 1.495e+28 / 88
p0 925 ± 1.06e−16
925.04
925.03
925.02
925.01
925
pull
Entries 89
Mean 1.625e+09
Std Dev 0
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

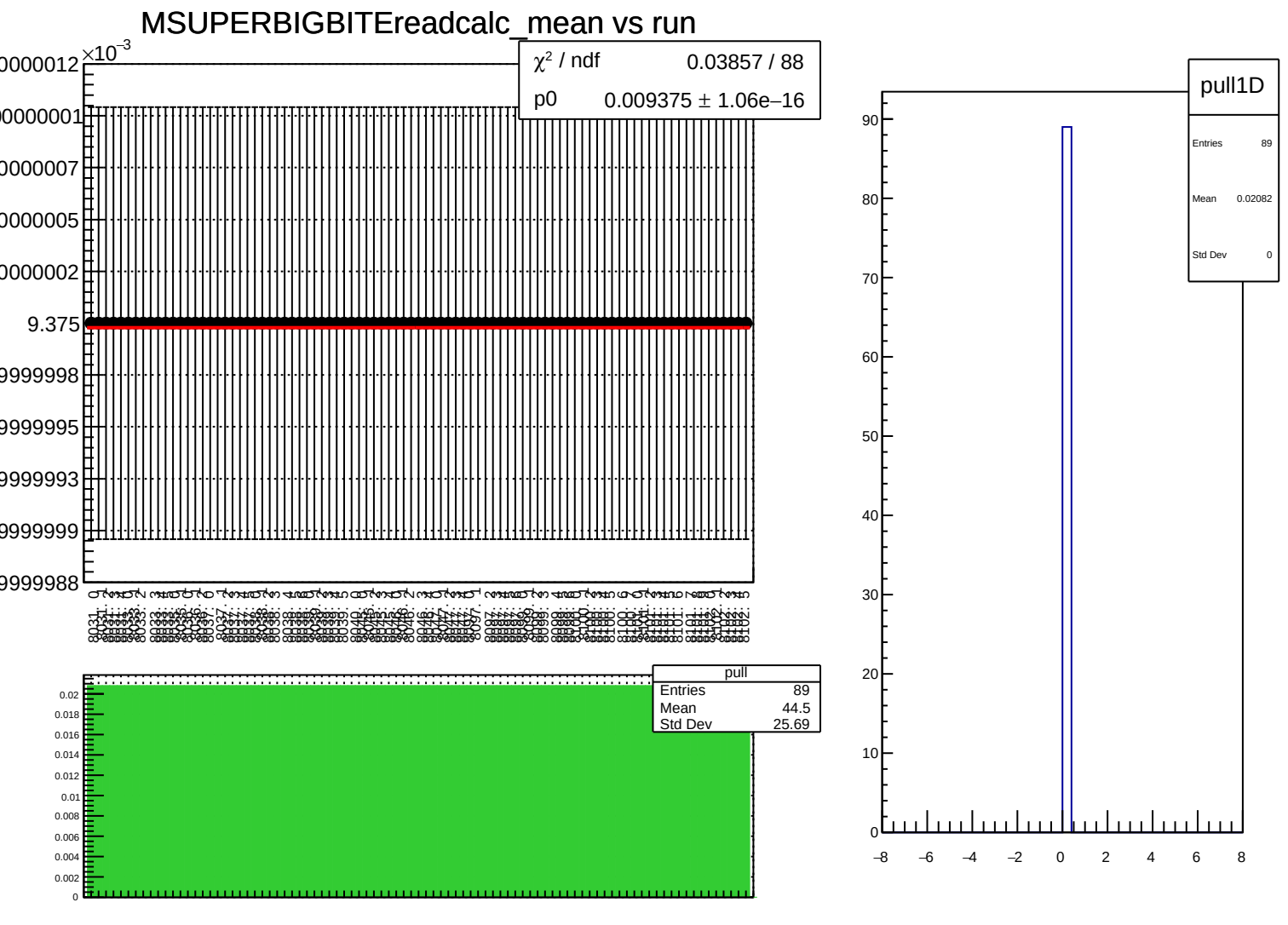

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 2.076e+25 / 88
p0 762.5 ± 1.06e−16
762.5006
762.5004
762.5002
762.5
762.4998
762.4996
762.4994
762.4992
762.499
762.4988
762.4986
pull
Entries 89
Mean 4.515e+08
Std Dev 0
×10⁹
1000
800
600
400
200
0
−200
−400
−600
−800

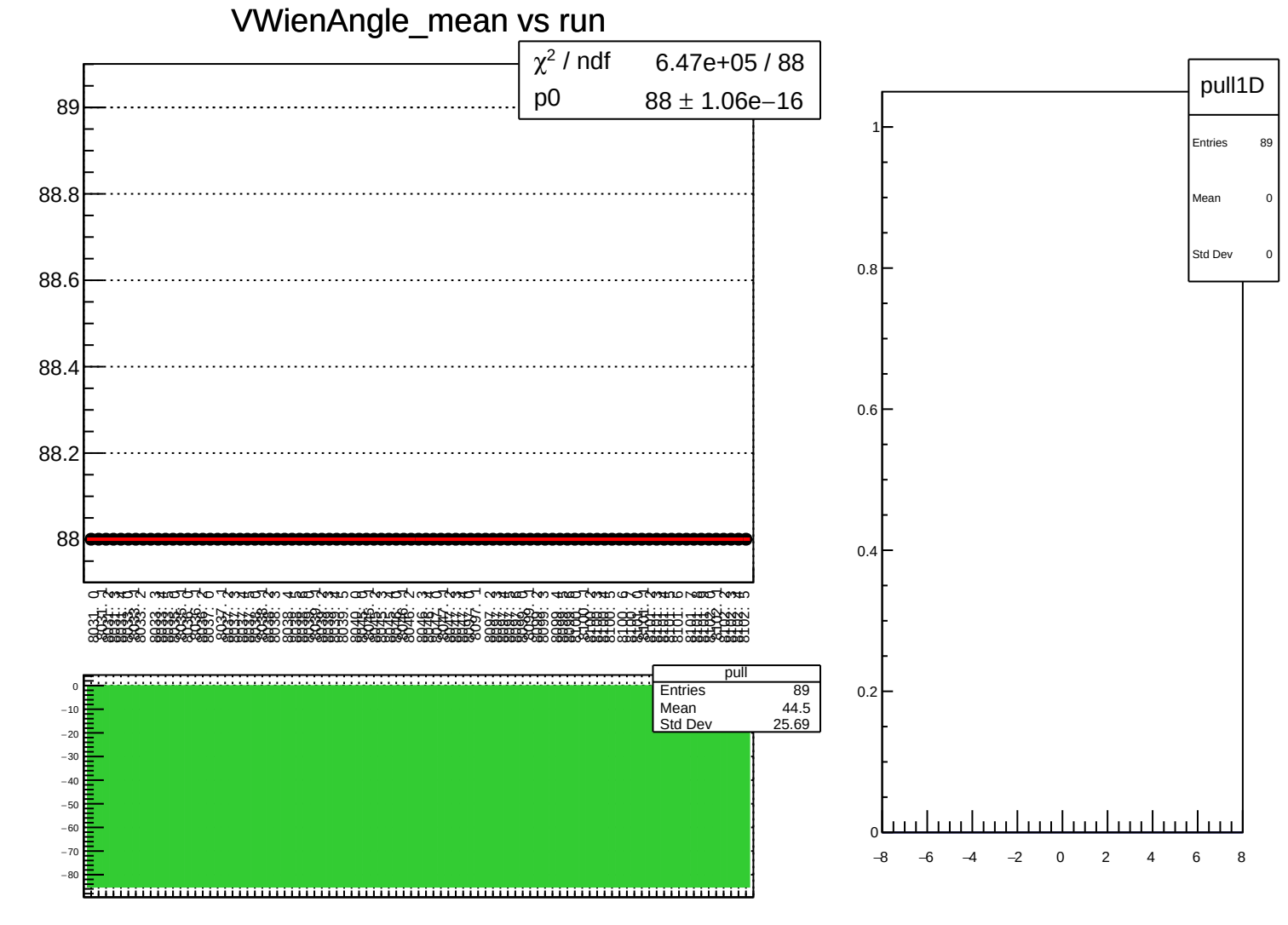

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

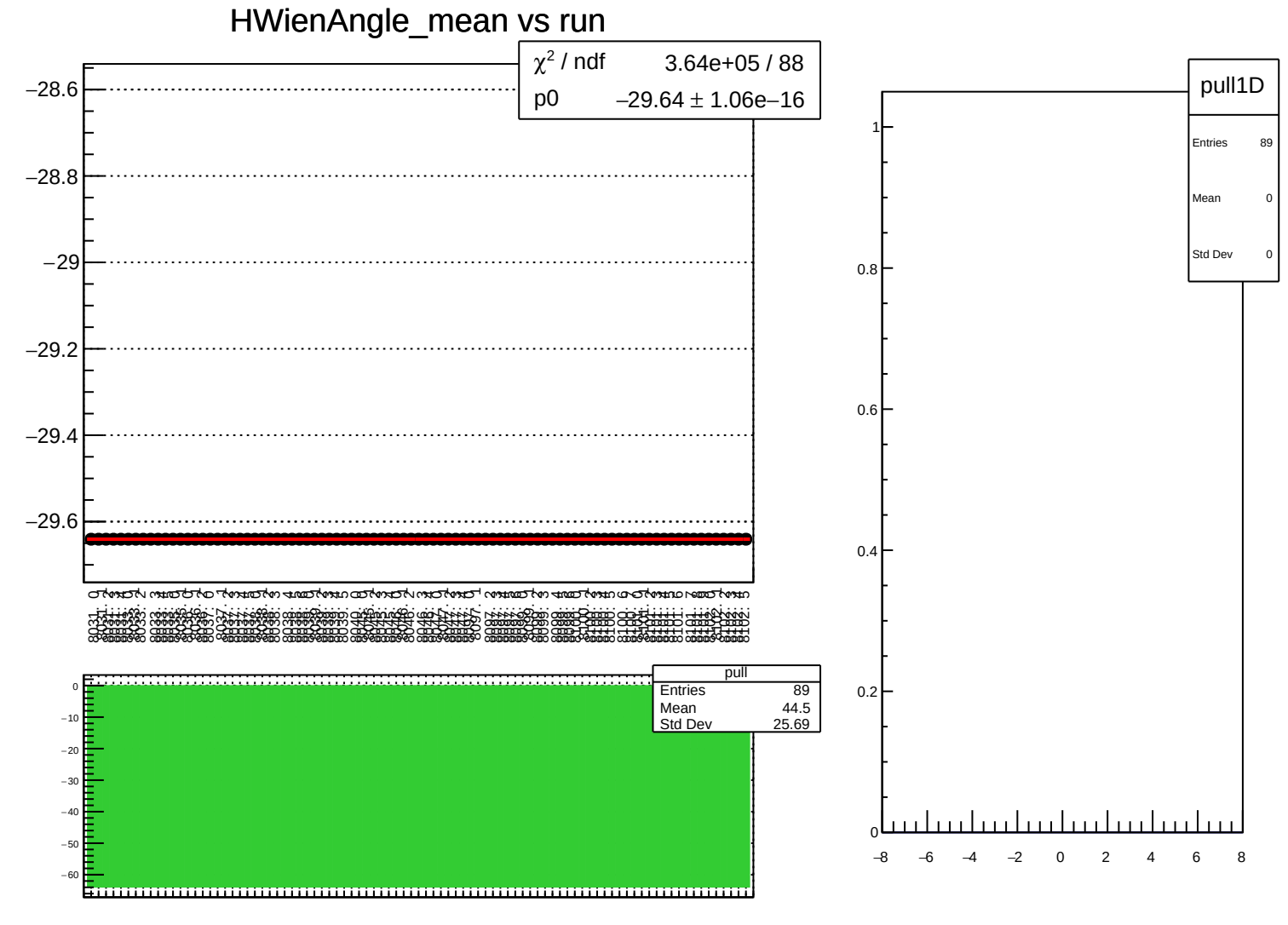

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 2.772e+26 / 88
p0 977.8 ± 1.06e−16
977.776
977.775
977.774
977.773
977.772
977.771
977.77
×10⁹
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean 1.596e+09
Std Dev 0

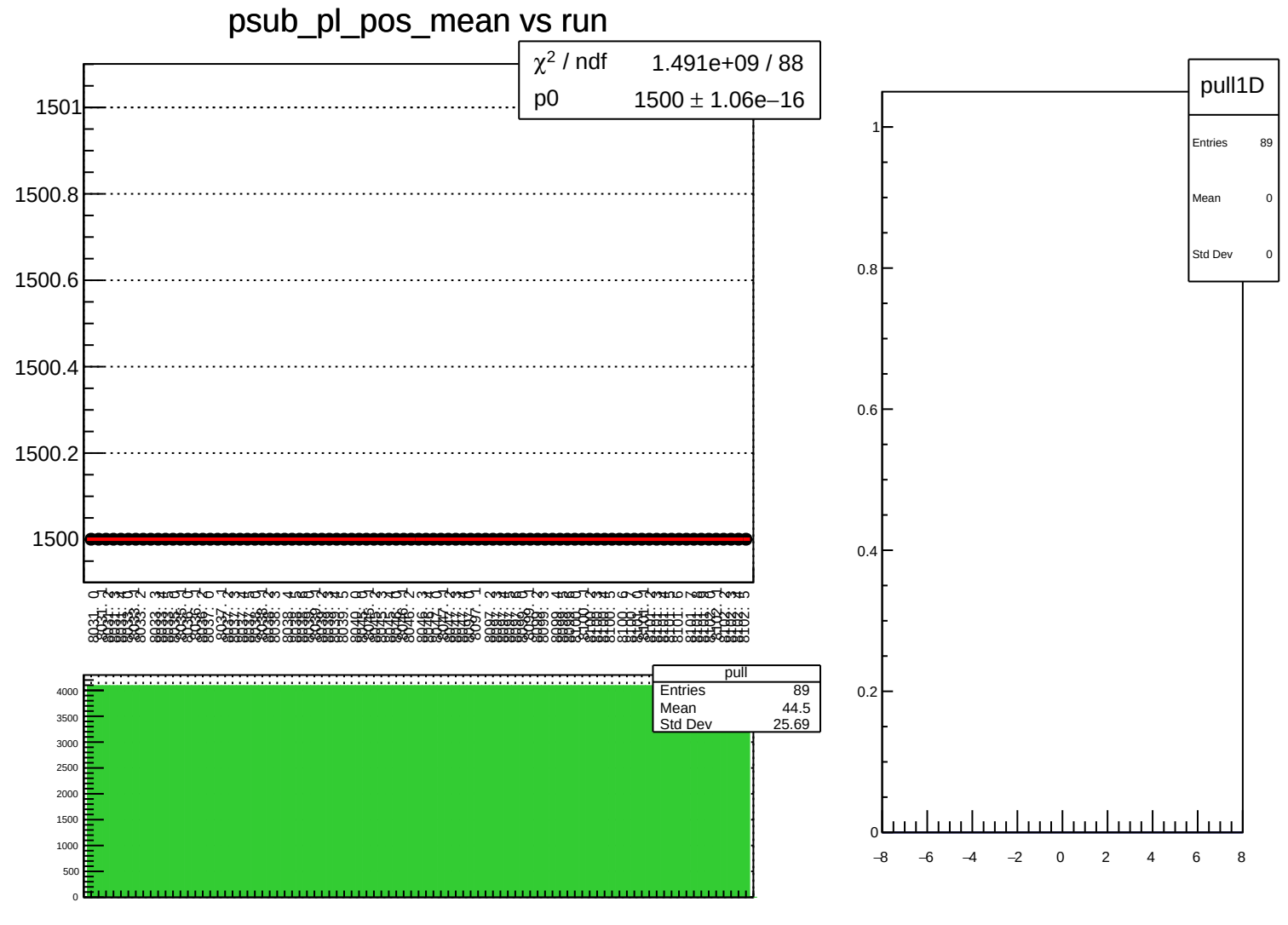

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

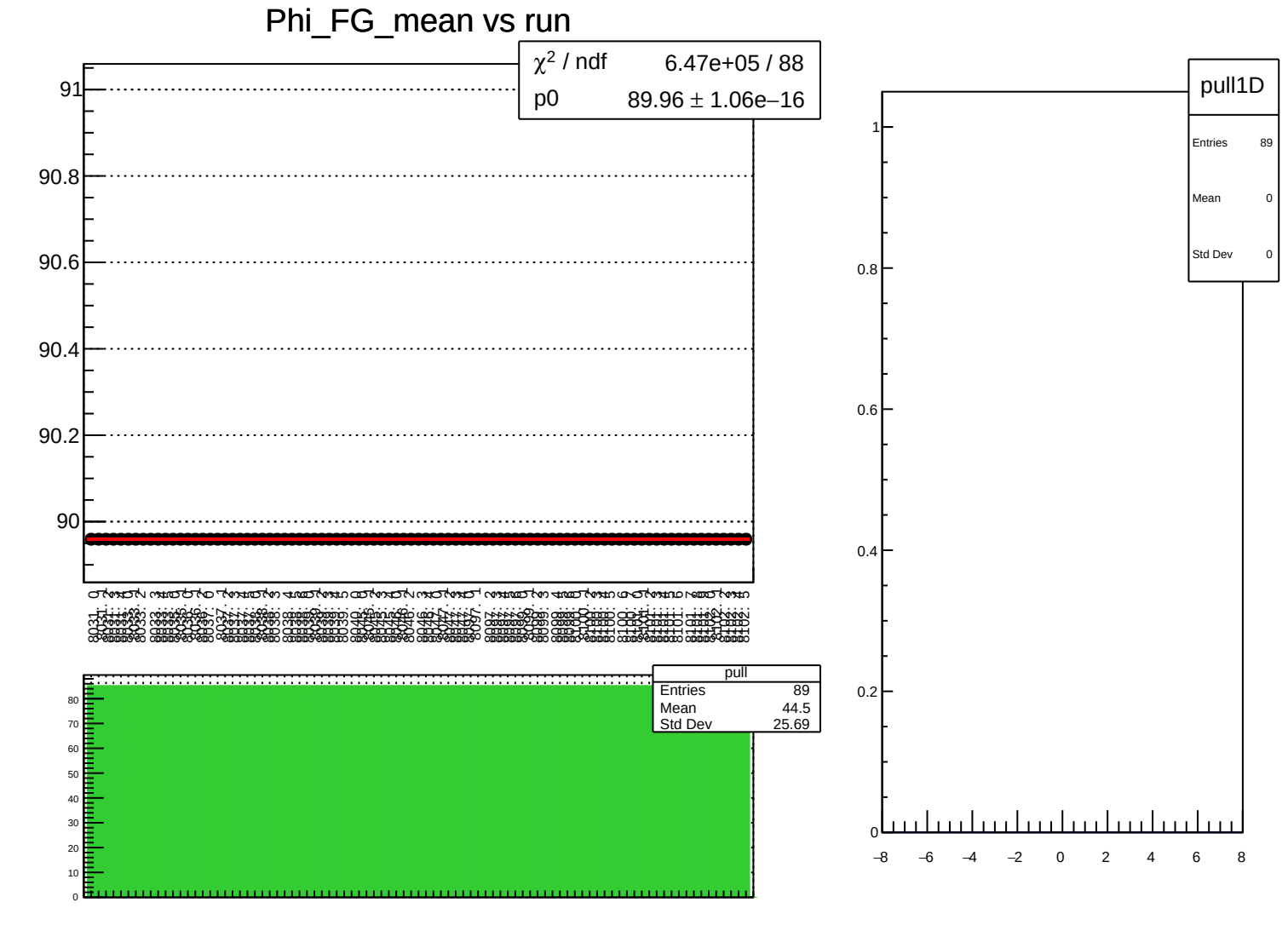

hesDipole_current_mean vs run
χ² / ndf 0.03857 / 88
p0 0.009375 ± 1.06e−16
×10⁻³
pull
Entries 89
Mean 44.5
Std Dev 25.69
pull1D
Entries 89
Mean 0.02082
Std Dev 0

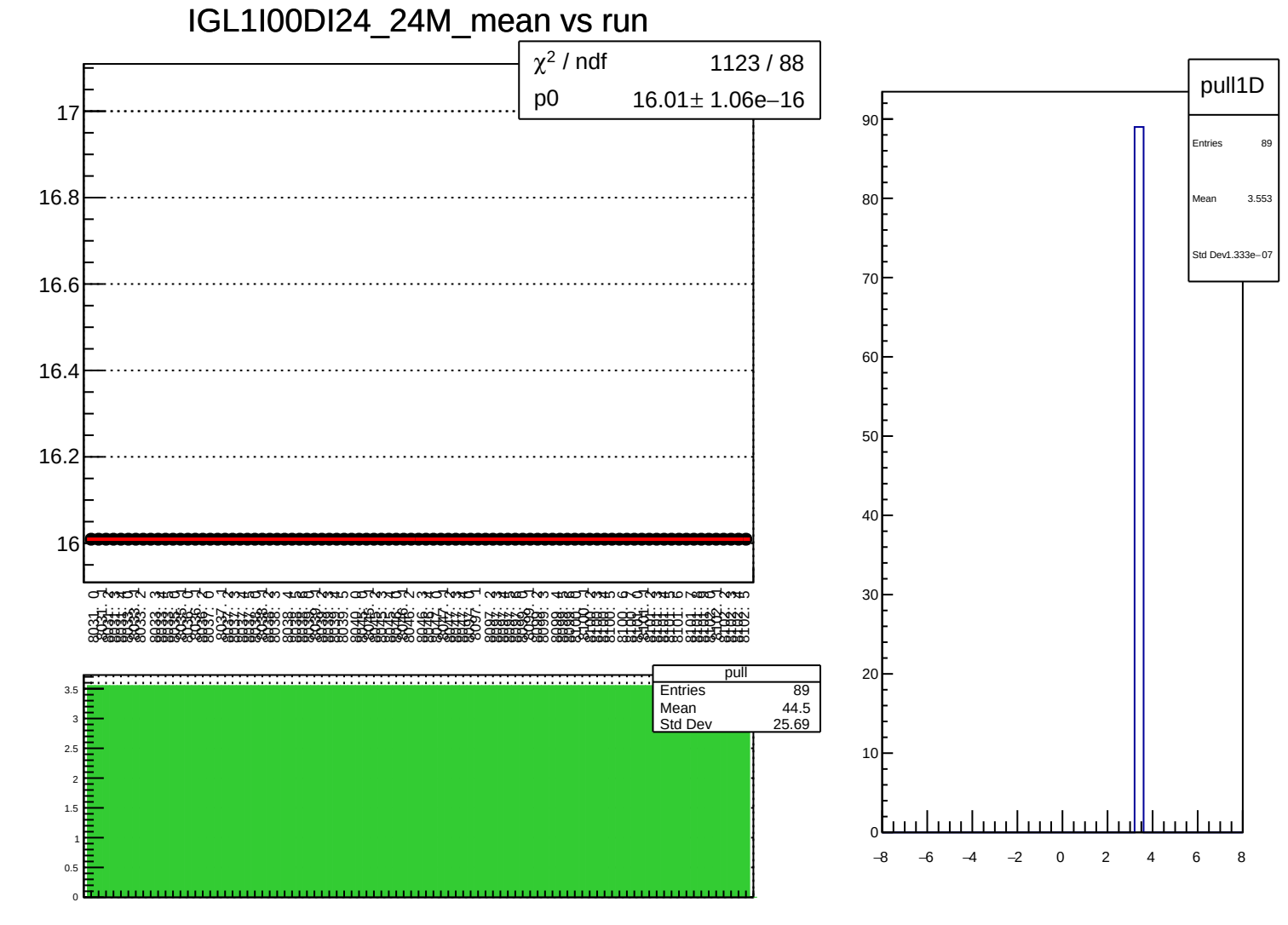

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.03857 / 88
p0 0.009375 ± 1.06e−16
×10⁻³
pull
Entries 89
Mean 44.5
Std Dev 25.69
pull1D
Entries 89
Mean 0.02082
Std Dev 0

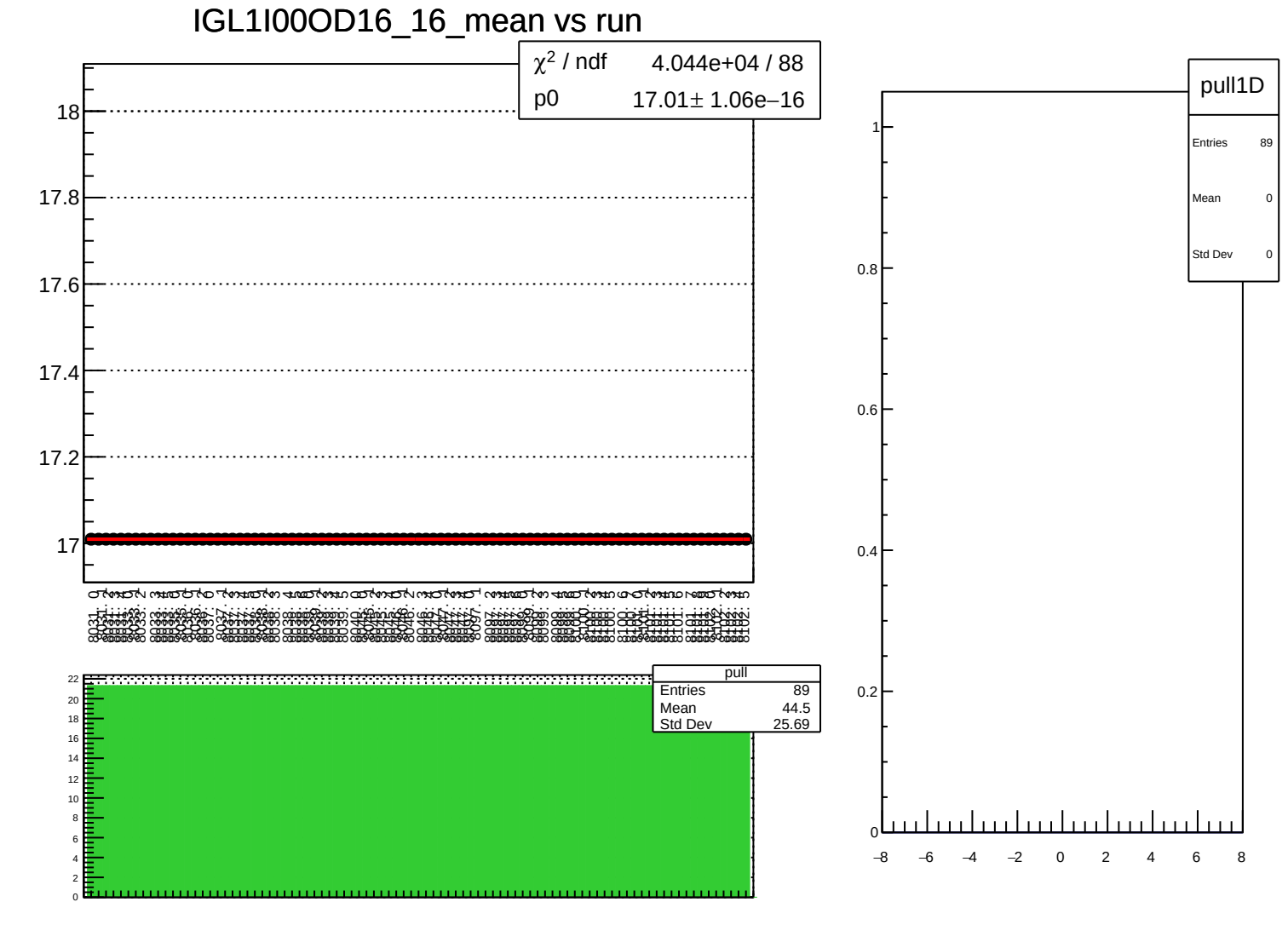

VWienAngle_mean vs run
χ² / ndf 6.47e+05 / 88
p0 88 ± 1.06e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 89
Mean 44.5
Std Dev 25.69
0
−10
−20
−30
−40
−50
−60
−70
−80
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

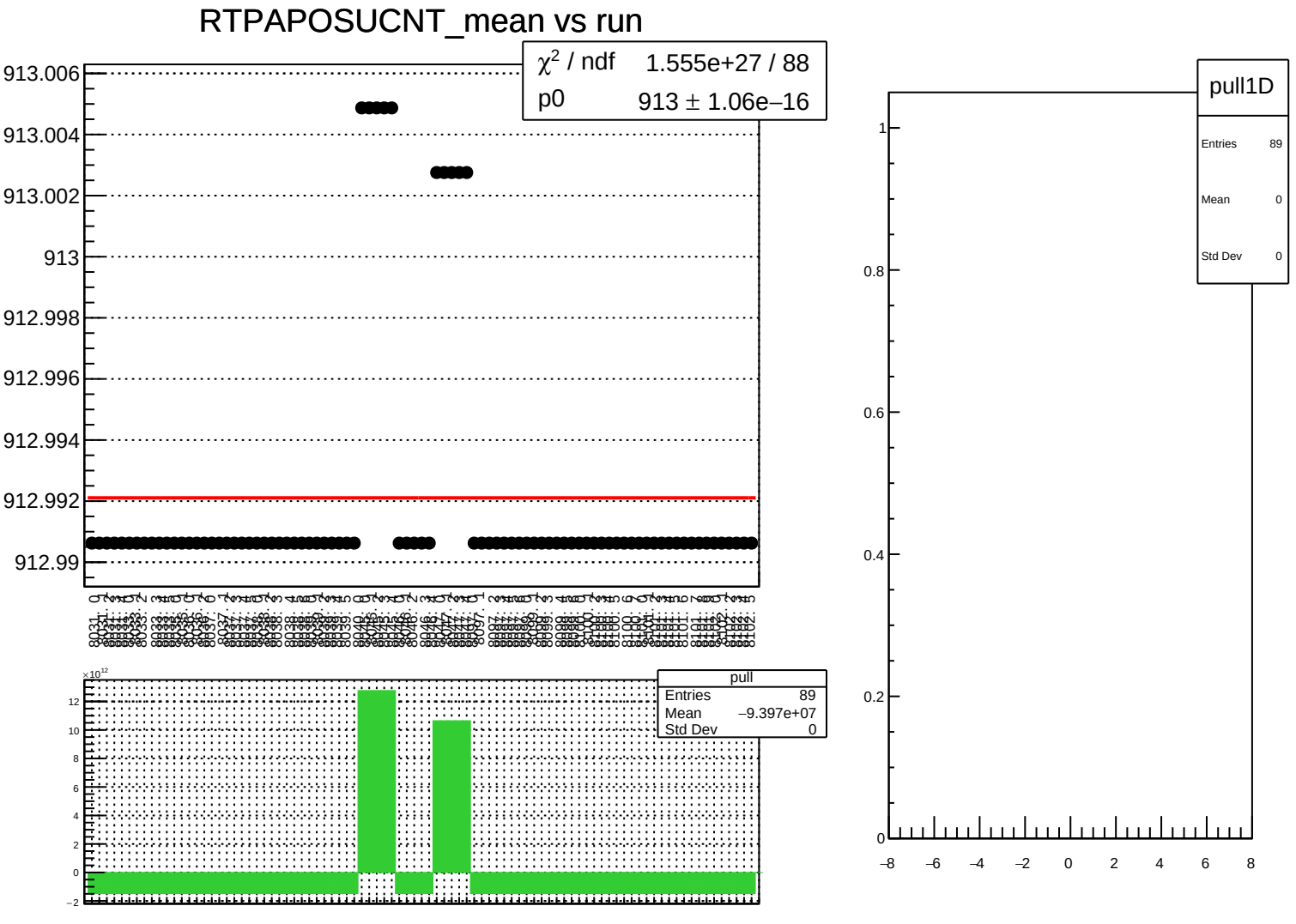

HWienAngle_mean vs run
χ² / ndf 3.64e+05 / 88
p0 −29.64 ± 1.06e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 89
Mean 44.5
Std Dev 25.69
0
−10
−20
−30
−40
−50
−60
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

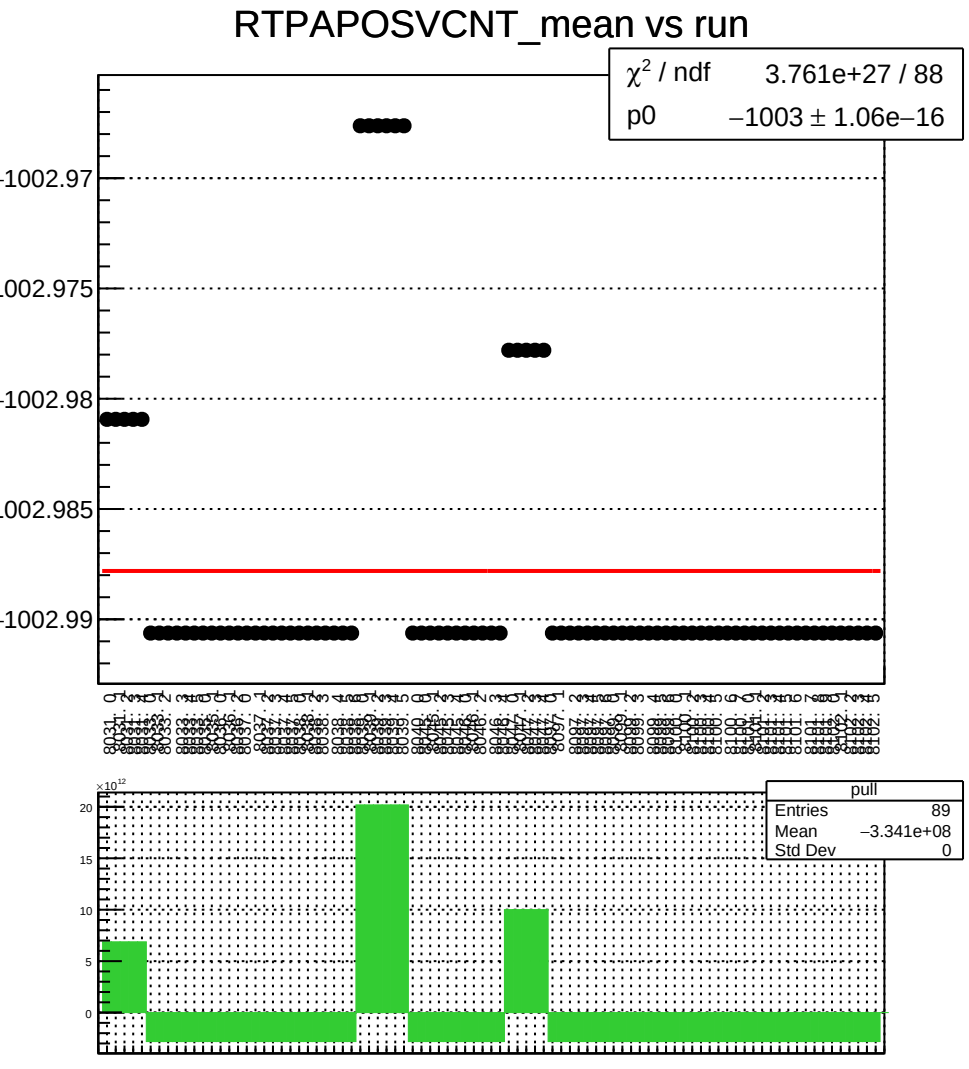

psub_pl_pos_mean vs run
χ² / ndf 1.491e+09 / 88
p0 1500 ± 1.06e−16
1501
1500.8
1500.6
1500.4
1500.2
1500
pull
Entries 89
Mean 44.5
Std Dev 25.69
4000
3500
3000
2500
2000
1500
1000
500
0
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

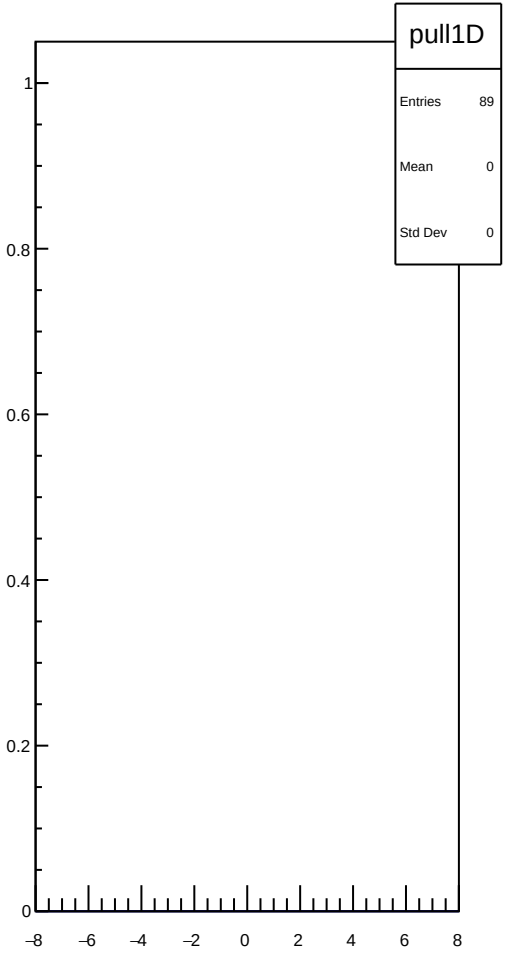

Phi_FG_mean vs run
χ² / ndf 6.47e+05 / 88
p0 89.96 ± 1.06e−16
91
90.8
90.6
90.4
90.2
90
pull
Entries 89
Mean 44.5
Std Dev 25.69
80
70
60
50
40
30
20
10
0
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

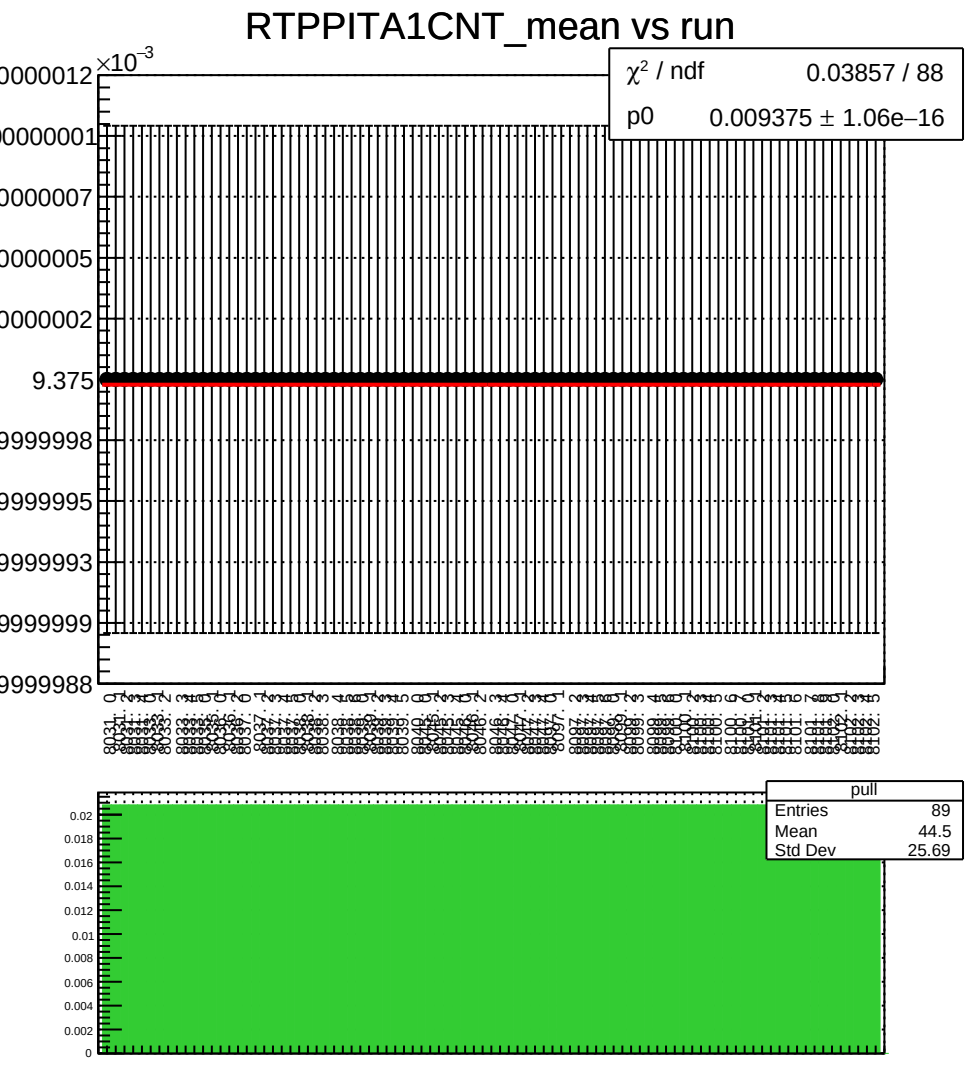

IGL1I00DI24_24M_mean vs run
χ² / ndf 1123 / 88
p0 16.01± 1.06e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 89
Mean 44.5
Std Dev 25.69
3.5
3
2.5
2
1.5
1
0.5
0
pull1D
Entries 89
Mean 3.553
Std Dev1.333e−07
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

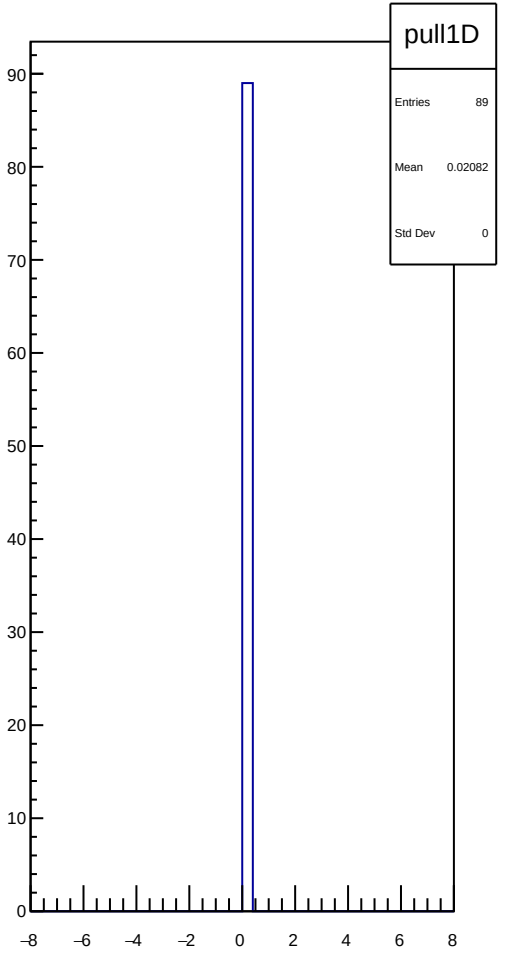

IGL1I00OD16_16_mean vs run
χ² / ndf 4.044e+04 / 88
p0 17.01± 1.06e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 89
Mean 44.5
Std Dev 25.69
22
20
18
16
14
12
10
8
6
4
2
0
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

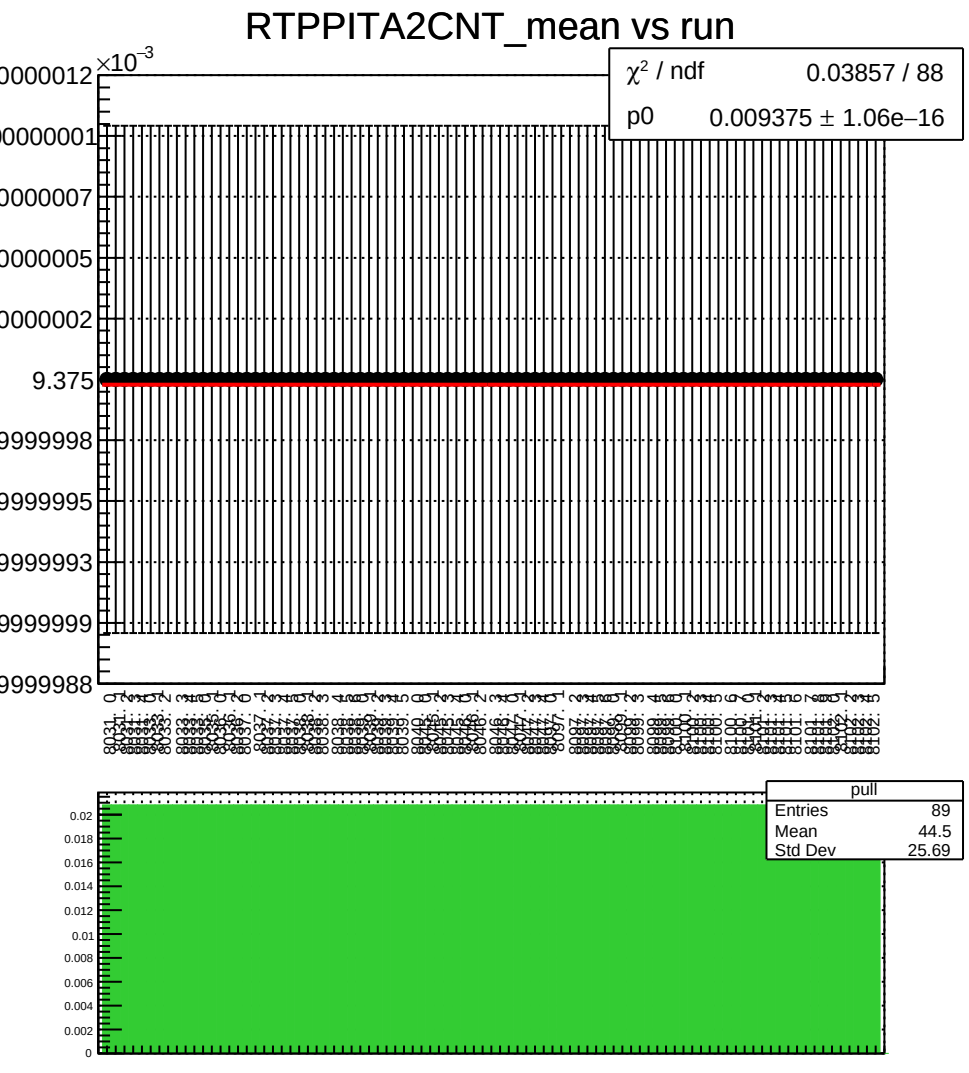

RTPAPOSUCNT_mean vs run
χ² / ndf 1.555e+27 / 88
p0 913 ± 1.06e−16
913.006
913.004
913.002
913
912.998
912.996
912.994
912.992
912.99
pull
Entries 89
Mean −9.397e+07
Std Dev 0
×10¹²
12
10
8
6
4
2
0
−2
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

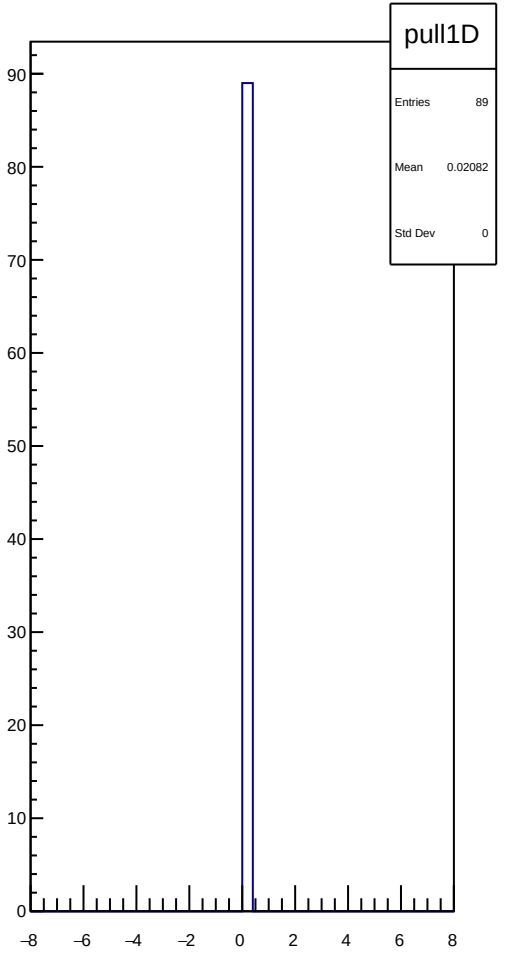

RTPAPOSVCNT_mean vs run
χ² / ndf 3.761e+27 / 88
p0 −1003 ± 1.06e−16
-1002.97
-1002.975
-1002.98
-1002.985
-1002.99
pull
Entries 89
Mean −3.341e+08
Std Dev 0
×10¹²
20
15
10
5
0


pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPPITA1CNT_mean vs run
χ² / ndf 0.03857 / 88
p0 0.009375 ± 1.06e−16
×10⁻³
pull
Entries 89
Mean 44.5
Std Dev 25.69


pull1D
Entries 89
Mean 0.02082
Std Dev 0


RTPPITA2CNT_mean vs run
χ² / ndf 0.03857 / 88
p0 0.009375 ± 1.06e−16
×10⁻³
pull
Entries 89
Mean 44.5
Std Dev 25.69


pull1D
Entries 89
Mean 0.02082
Std Dev 0