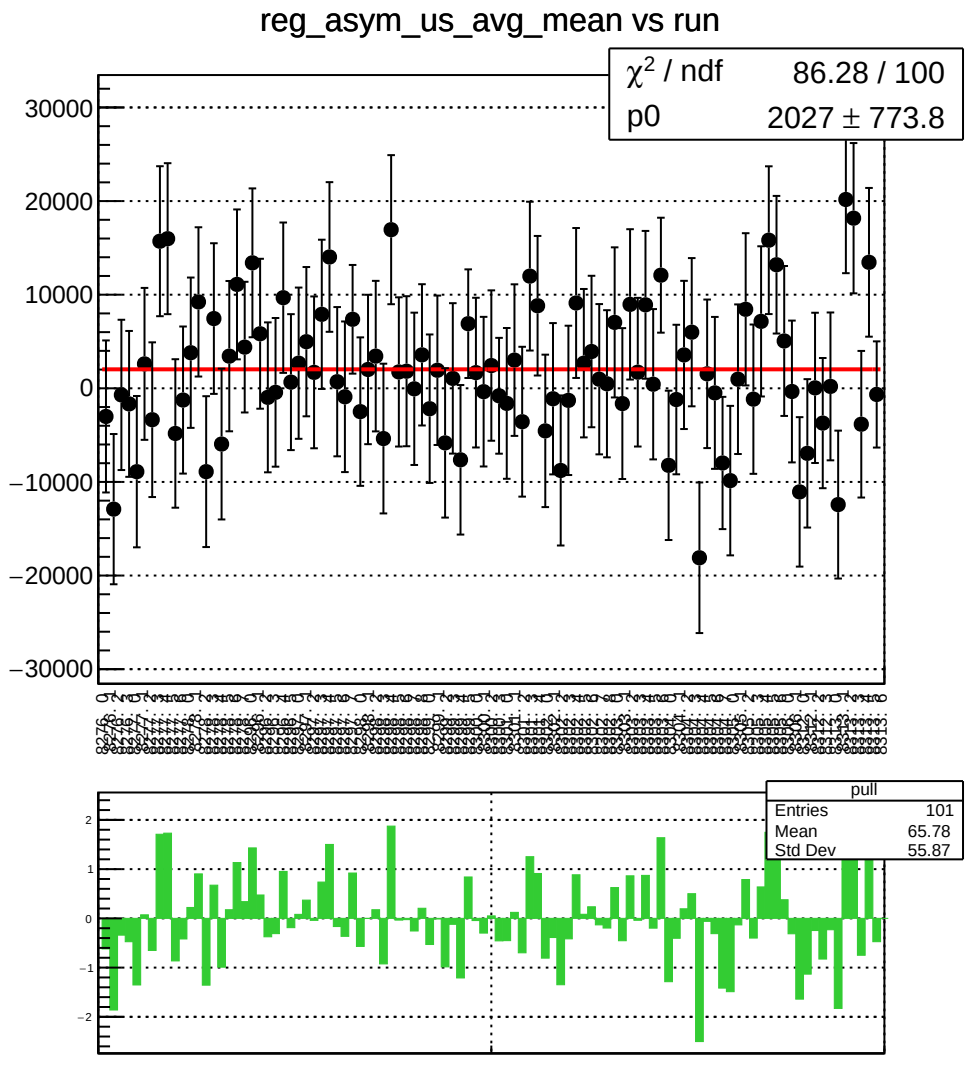
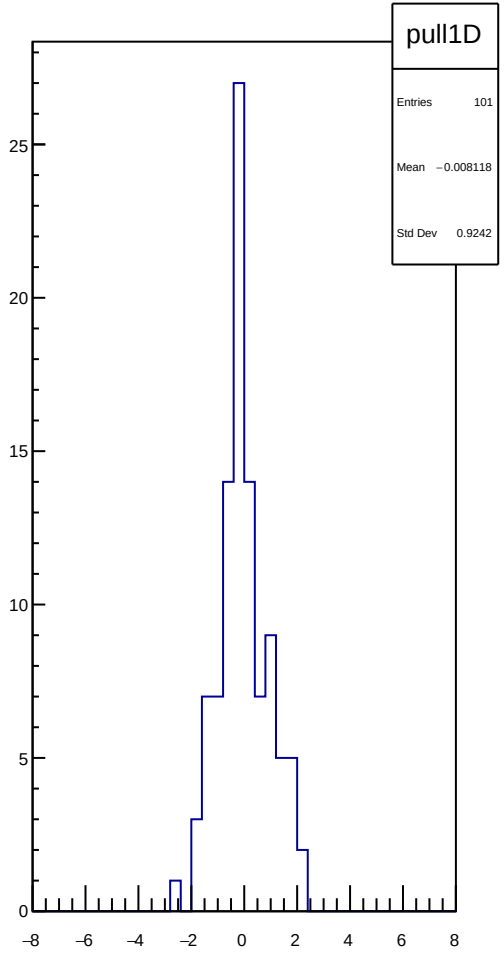
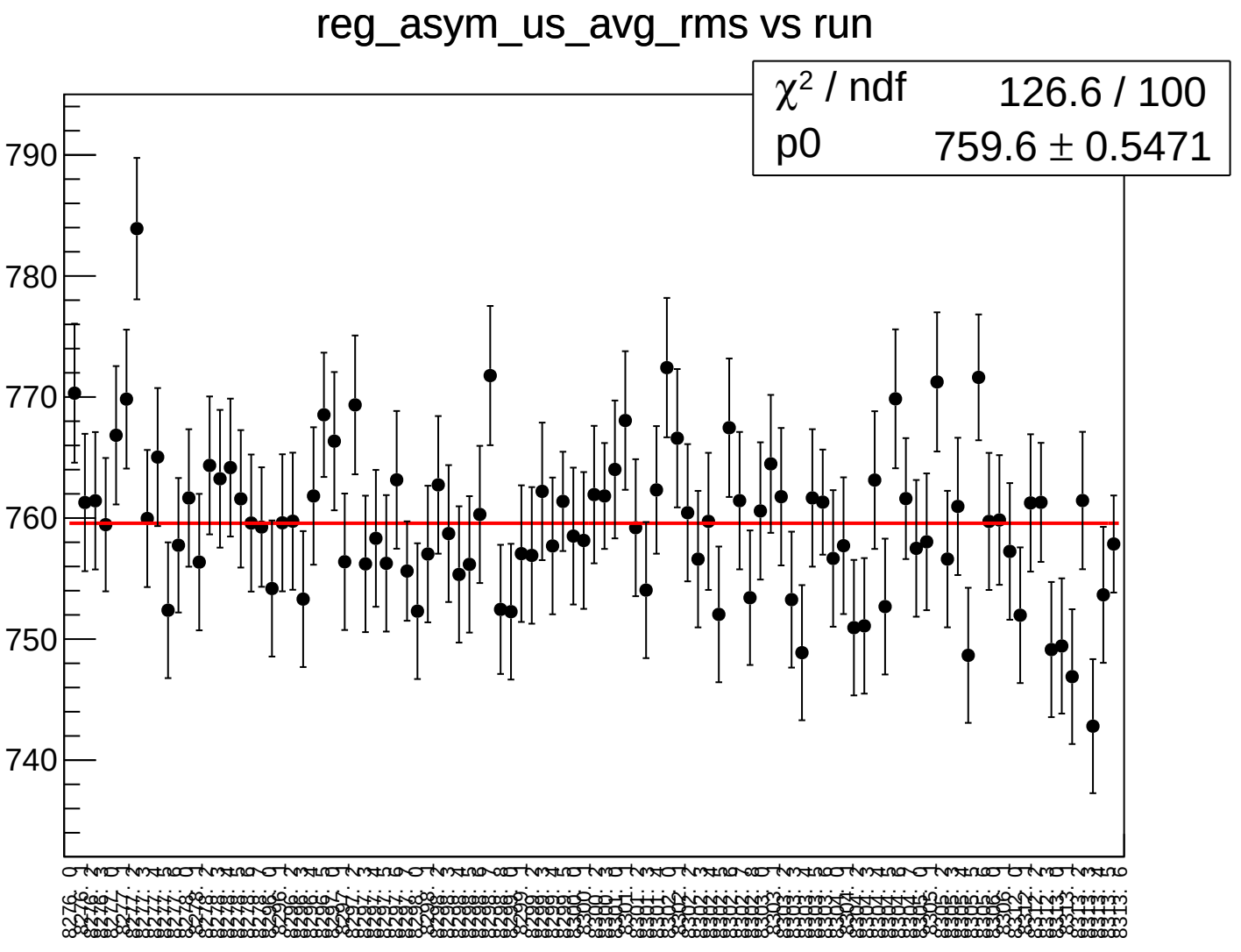
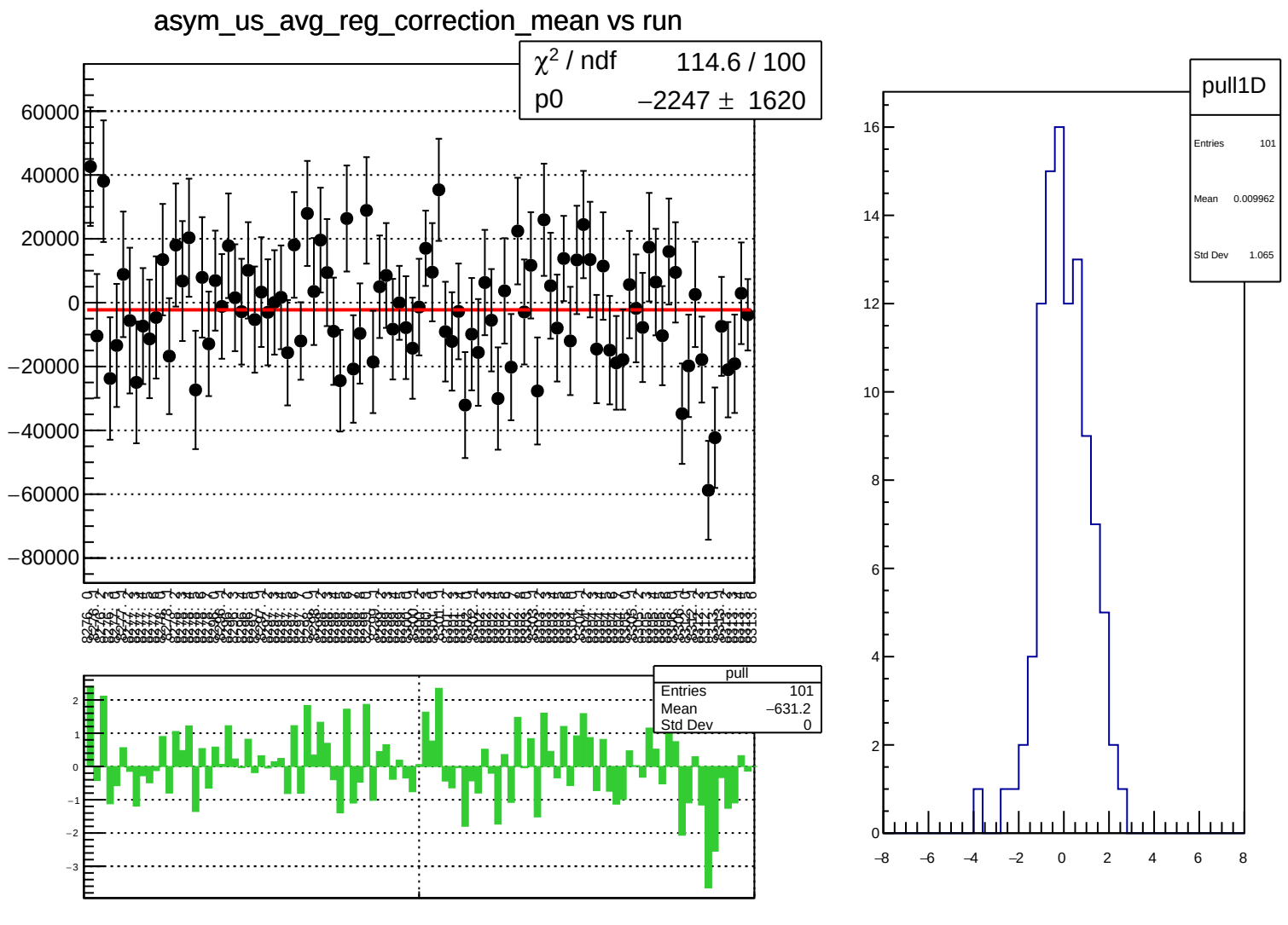
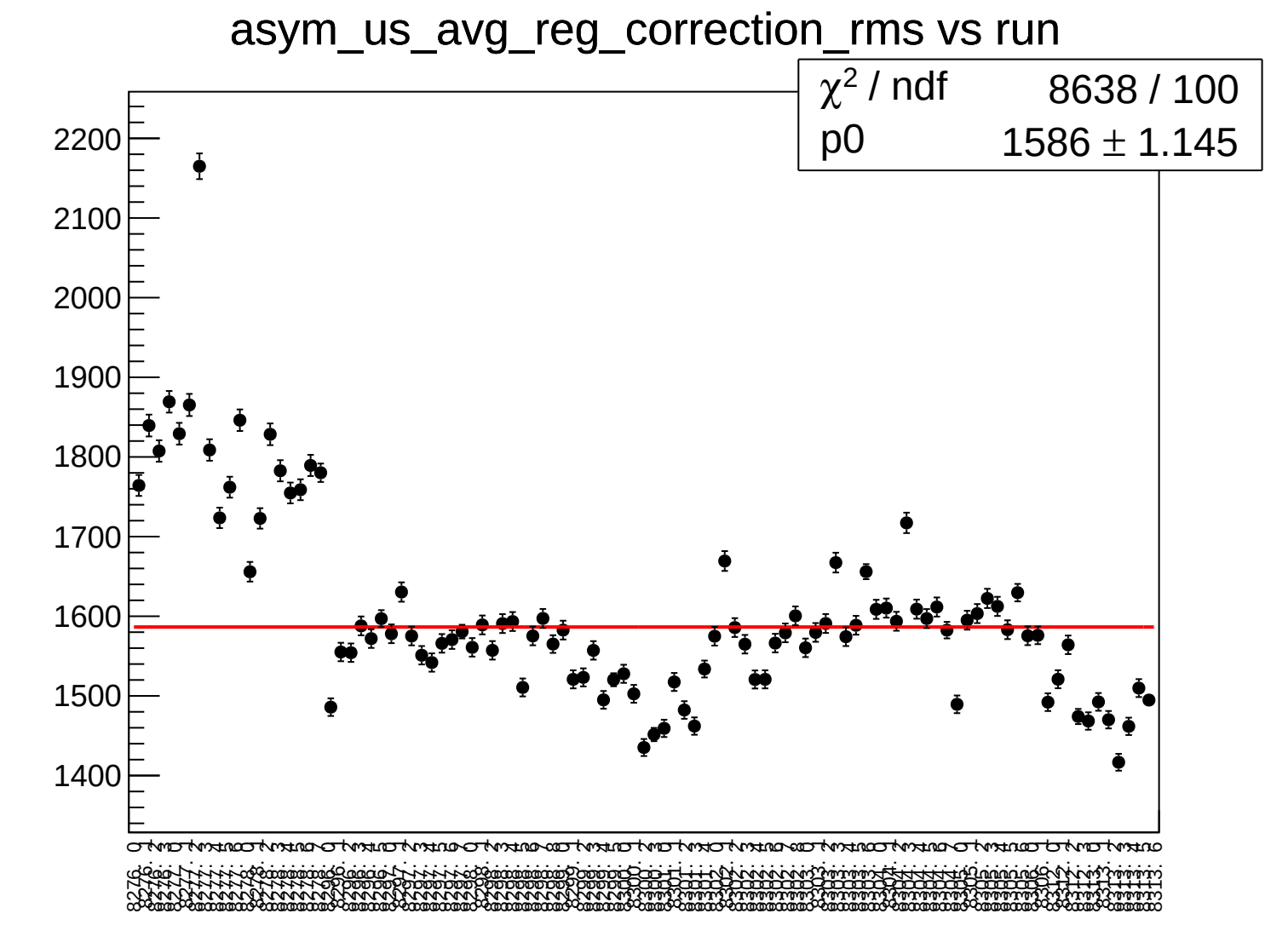
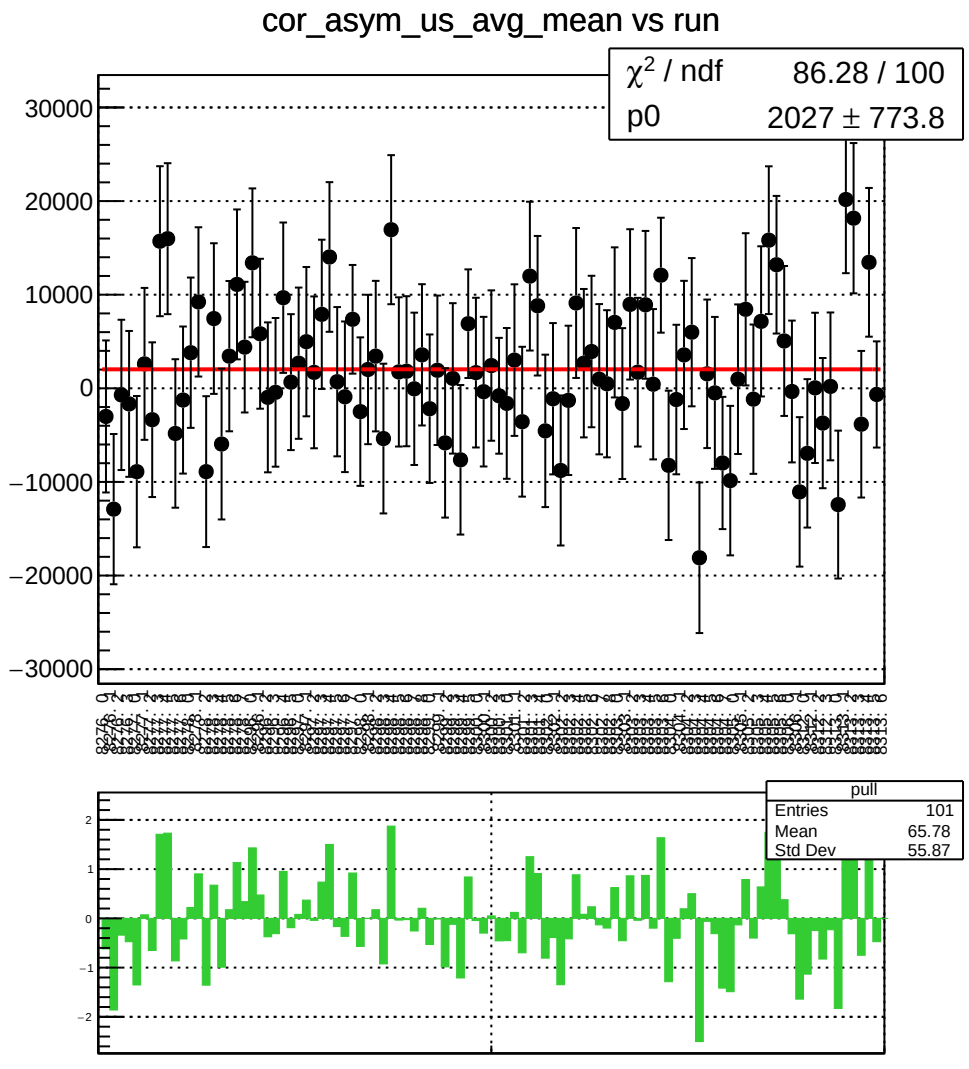

reg_asym_us_avg_mean vs run
χ² / ndf 86.28 / 100
p0 2027 ± 773.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 101
Mean 65.78
Std Dev 55.87
2
1
0
−1
−2

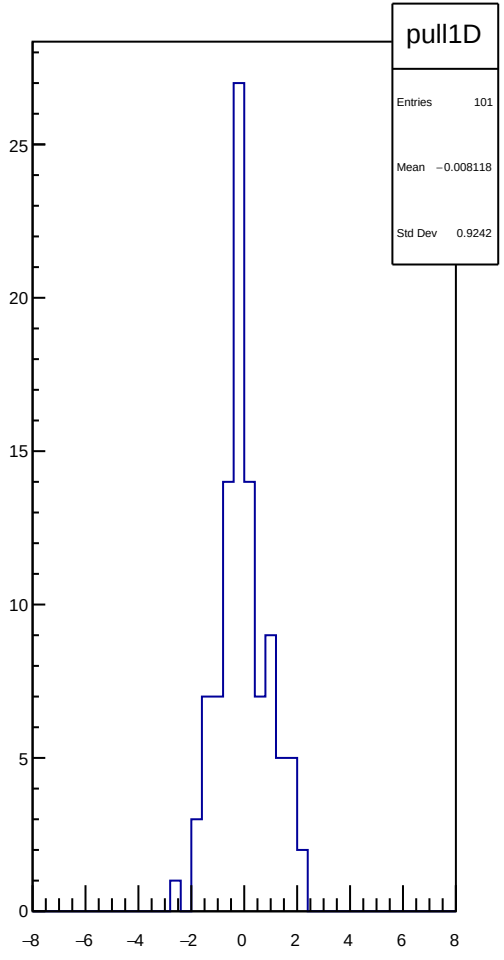

pull1D
Entries 101
Mean −0.008118
Std Dev 0.9242
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

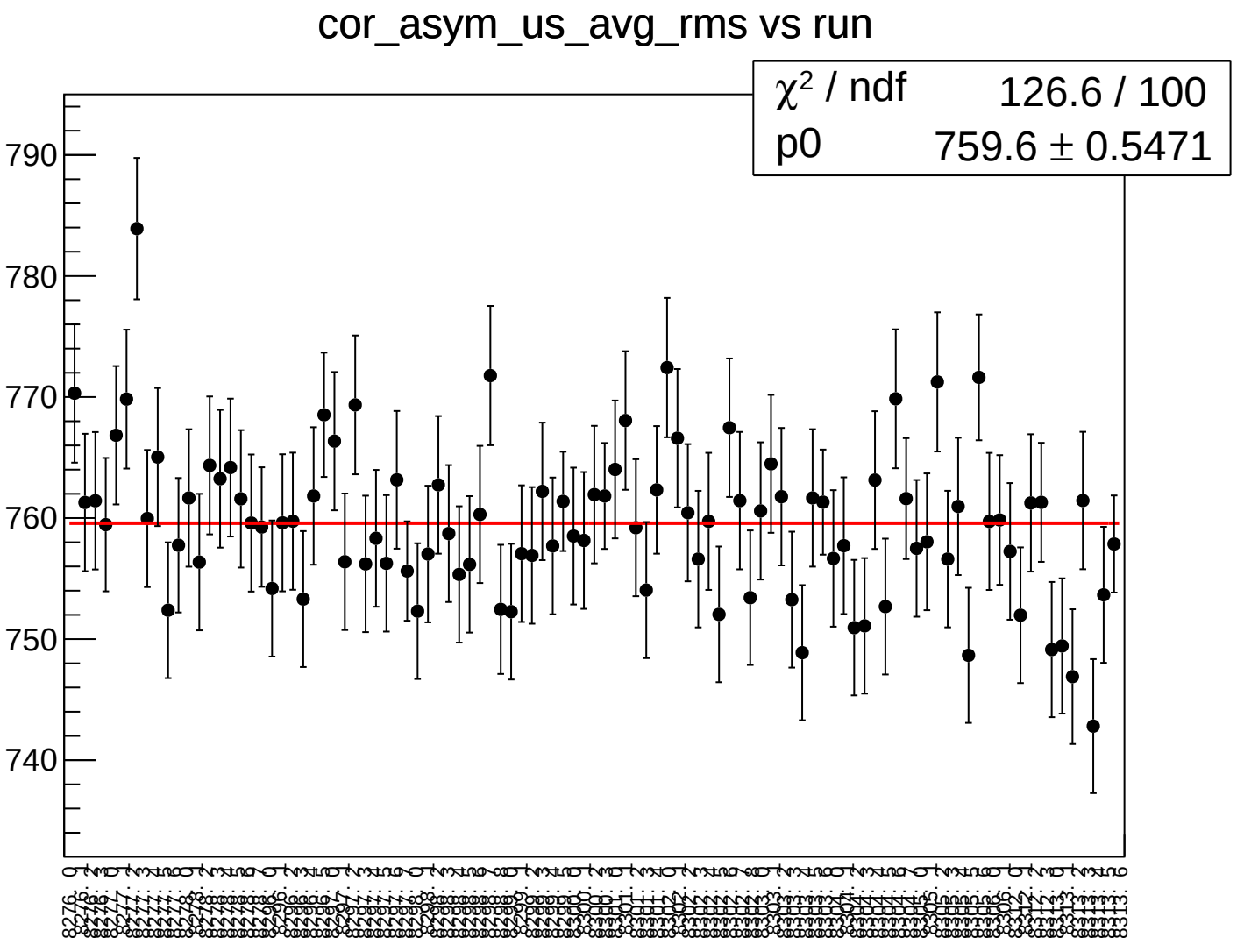

reg_asym_us_avg_rms vs run
χ² / ndf 126.6 / 100
p0 759.6 ± 0.5471
790
780
770
760
750
740

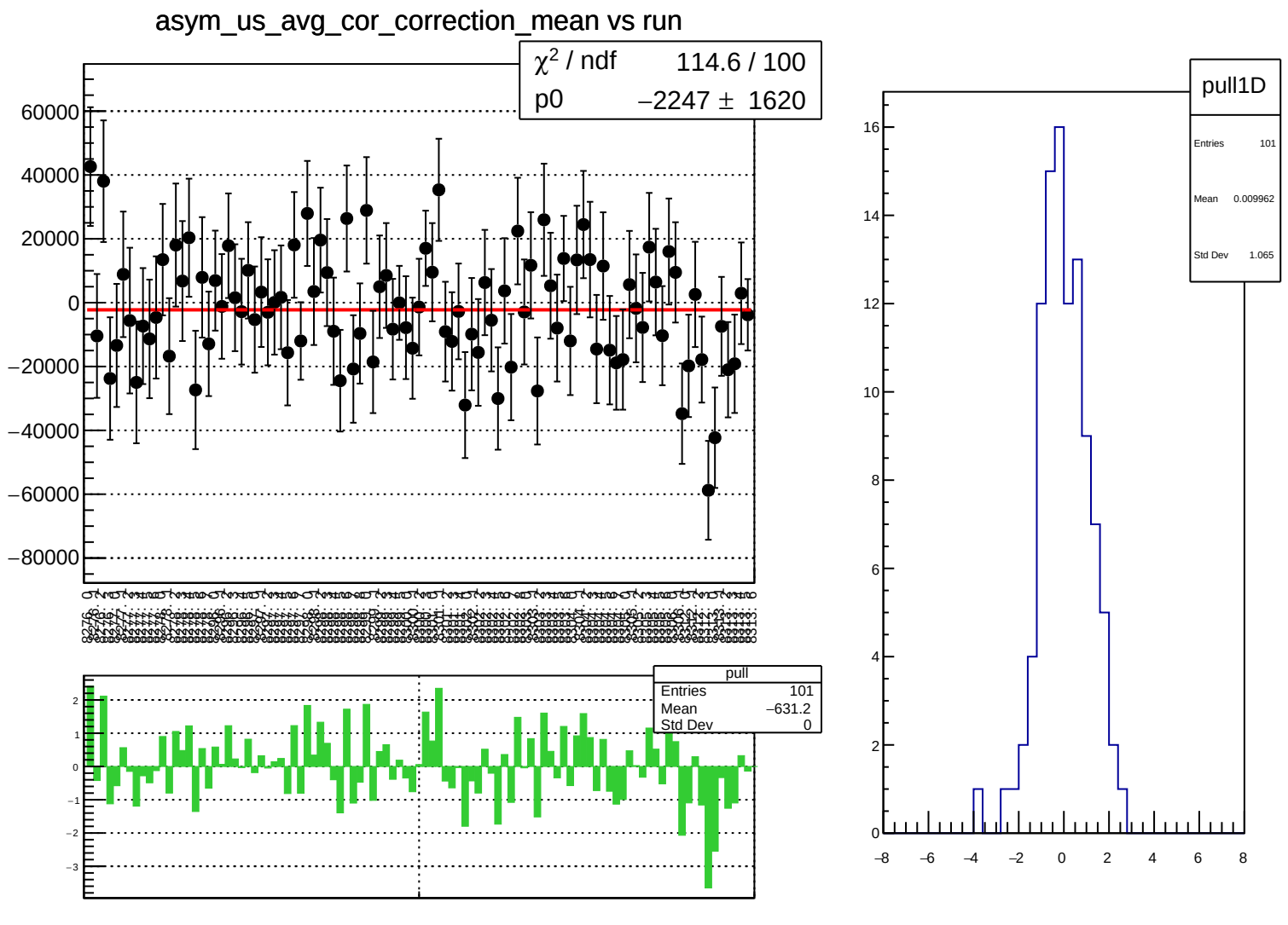

asym_us_avg_reg_correction_mean vs run
χ² / ndf 114.6 / 100
p0 −2247 ± 1620
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 101
Mean −631.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.009962
Std Dev 1.065
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_reg_correction_rms vs run
χ² / ndf 8638 / 100
p0 1586 ± 1.145
2200
2100
2000
1900
1800
1700
1600
1500
1400


cor_asym_us_avg_mean vs run
χ² / ndf 86.28 / 100
p0 2027 ± 773.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 101
Mean 65.78
Std Dev 55.87
2
1
0
−1
−2


pull1D
Entries 101
Mean −0.008118
Std Dev 0.9242
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_us_avg_rms vs run
χ² / ndf 126.6 / 100
p0 759.6 ± 0.5471
790
780
770
760
750
740


asym_us_avg_cor_correction_mean vs run
χ² / ndf 114.6 / 100
p0 −2247 ± 1620
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 101
Mean −631.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.009962
Std Dev 1.065
16
14
12
10
8
6
4
2
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−6
−4
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2
4
6
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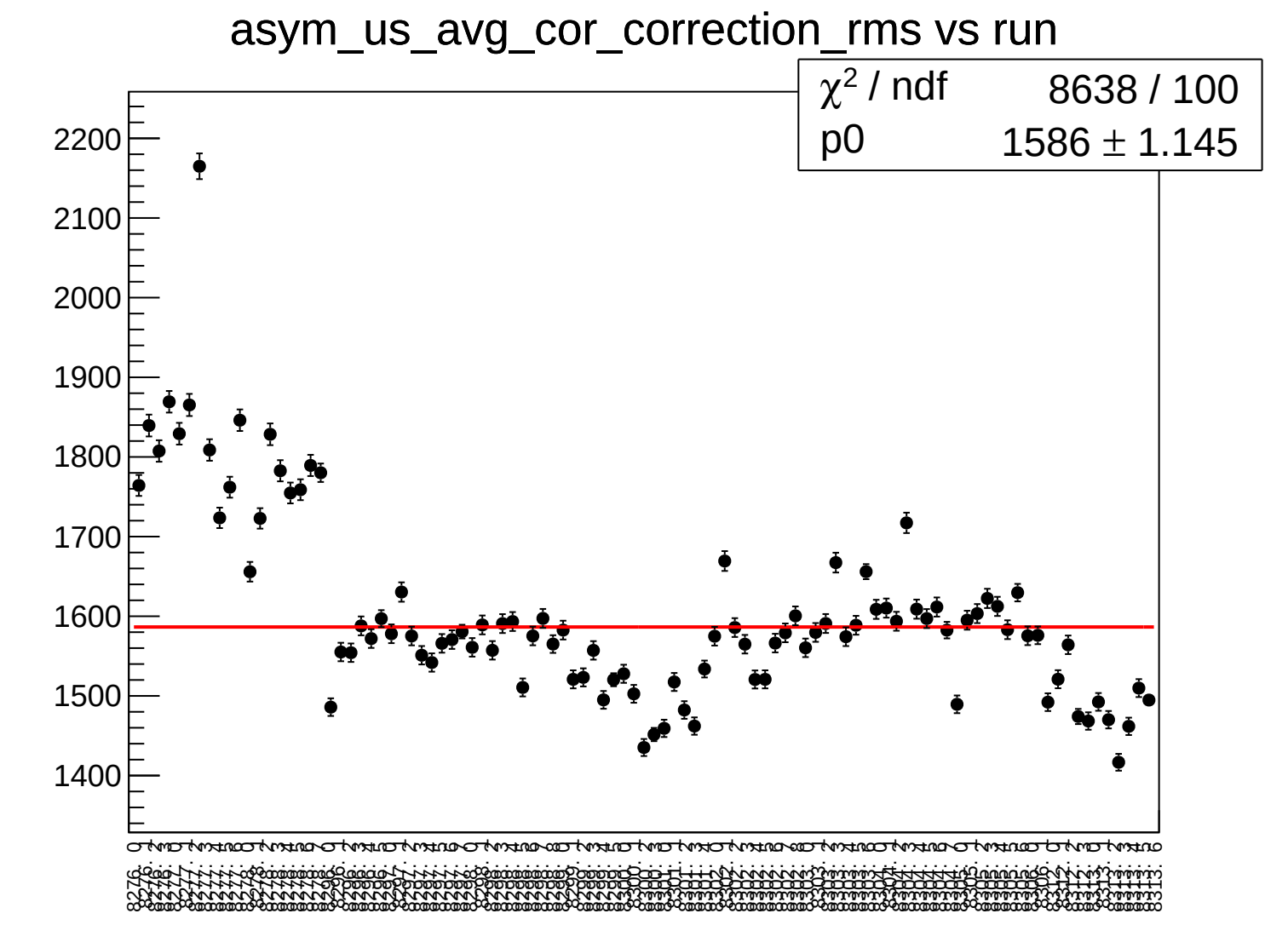
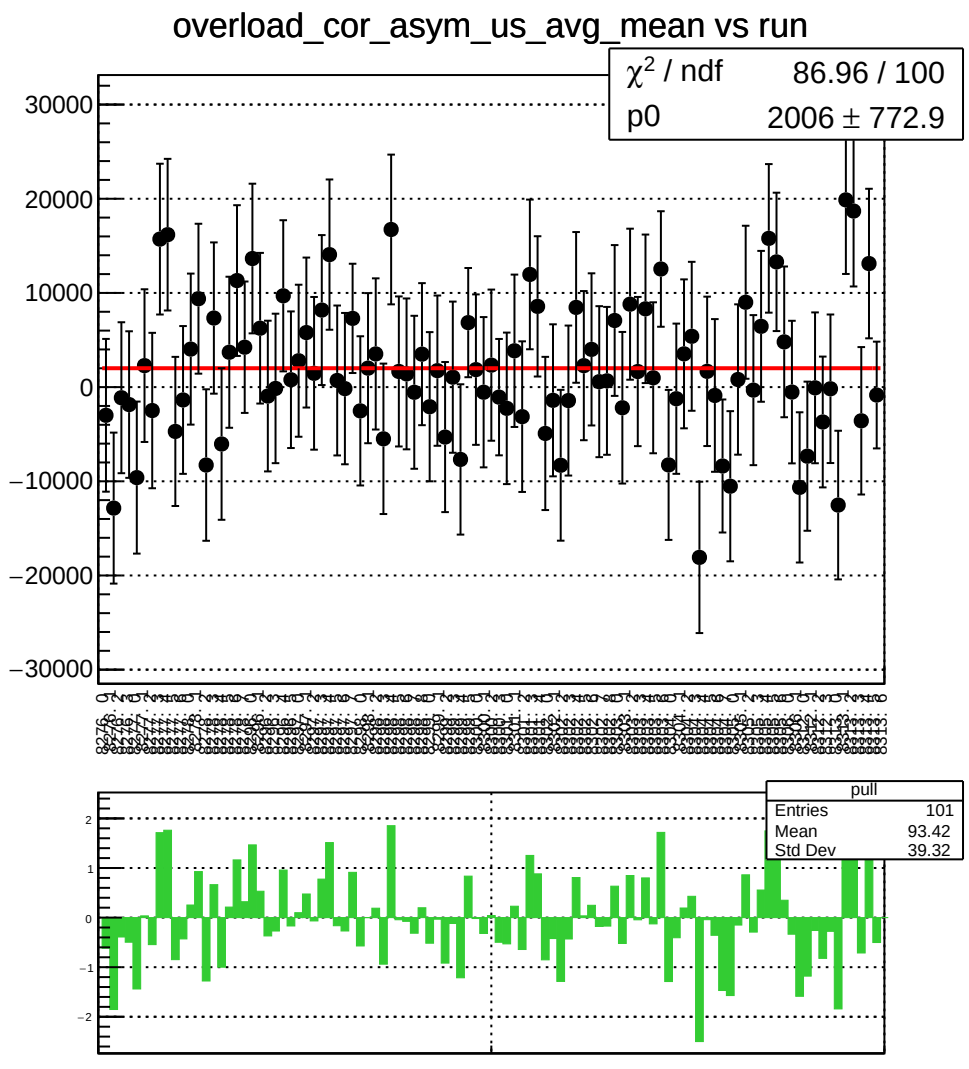
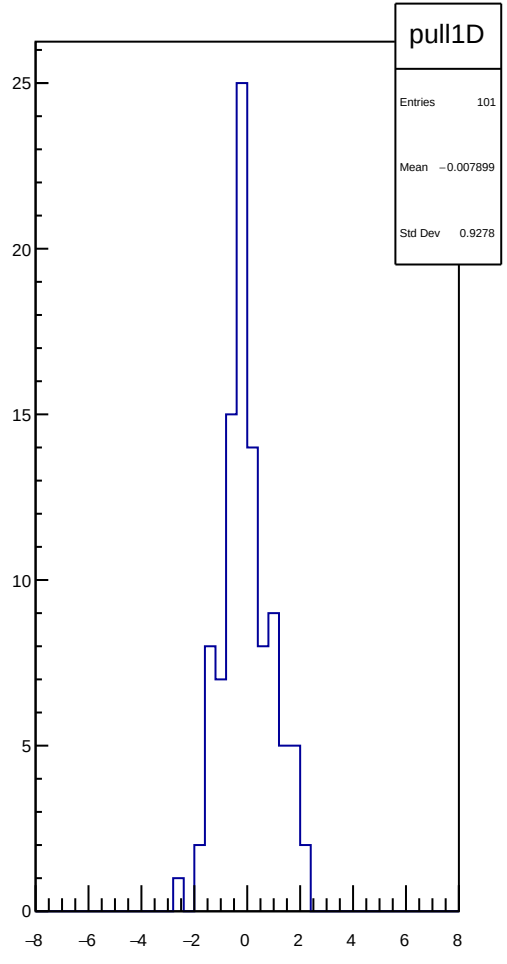

asym_us_avg_cor_correction_rms vs run
χ^2 / ndf 8638 / 100
p0 1586 ± 1.145
2200
2100
2000
1900
1800
1700
1600
1500
1400


overload_cor_asym_us_avg_mean vs run
χ² / ndf 86.96 / 100
p0 2006 ± 772.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 101
Mean 93.42
Std Dev 39.32
2
1
0
−1
−2


pull1D
Entries 101
Mean −0.007899
Std Dev 0.9278
25
20
15
10
5
0
−8
−6
−4
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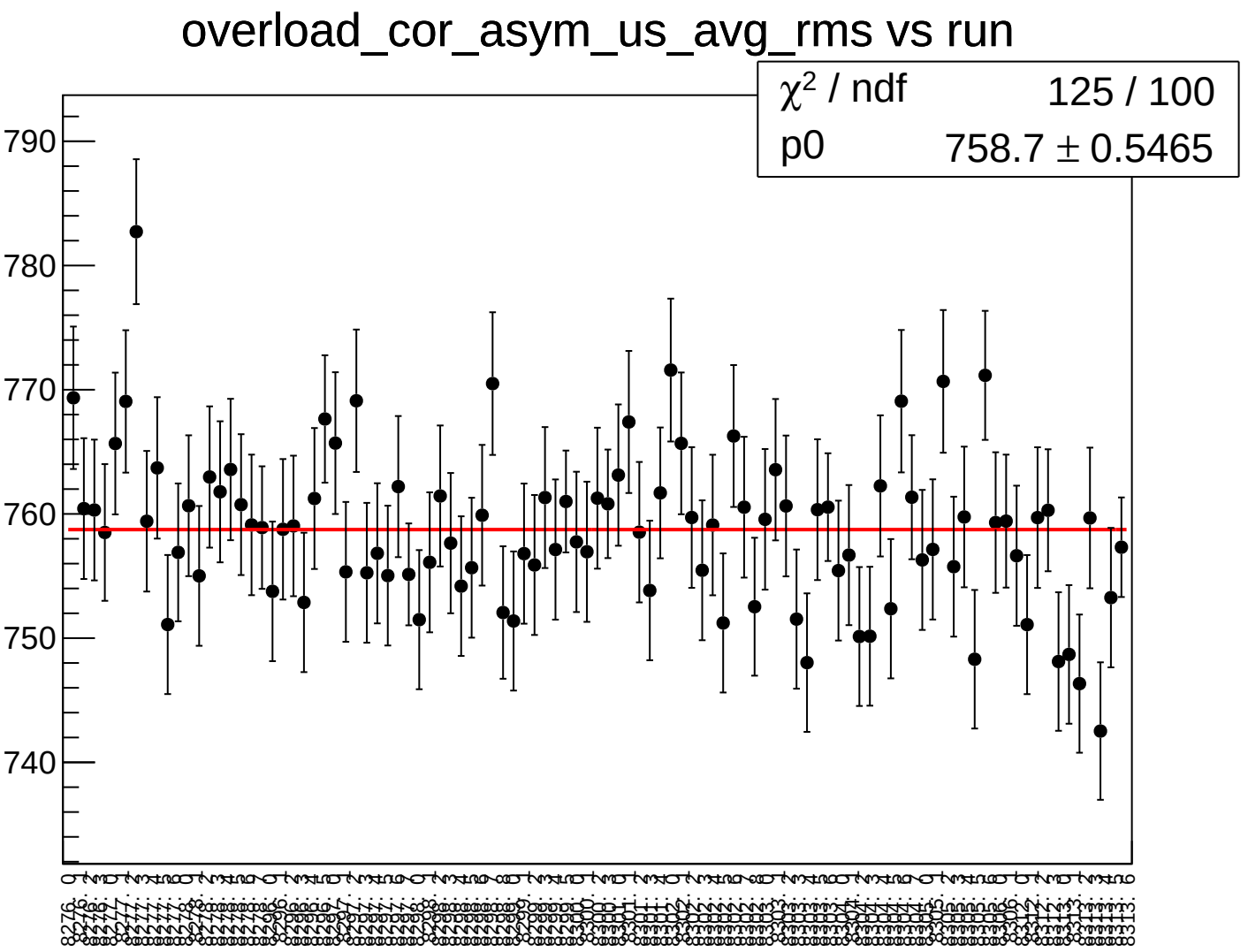
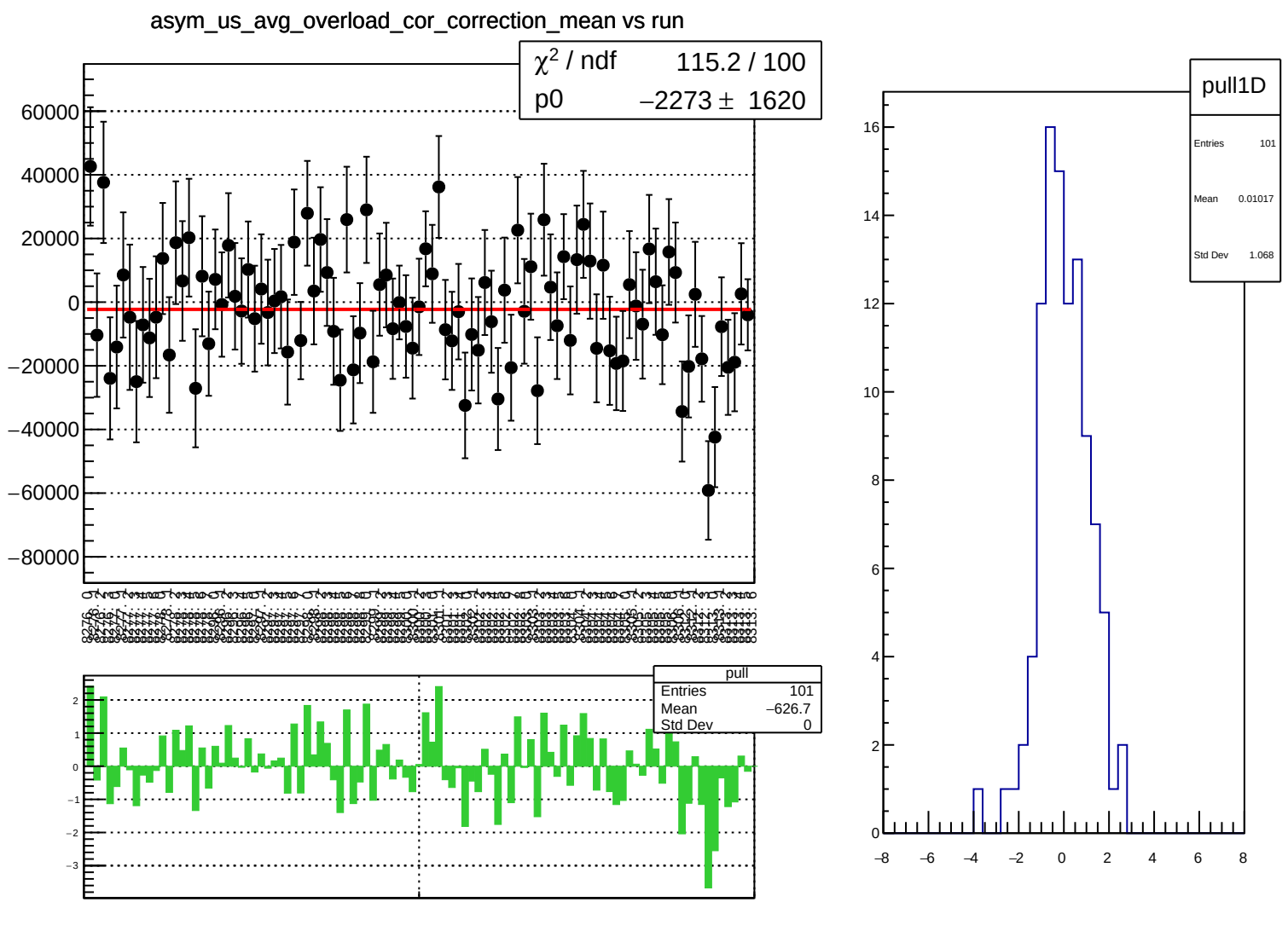
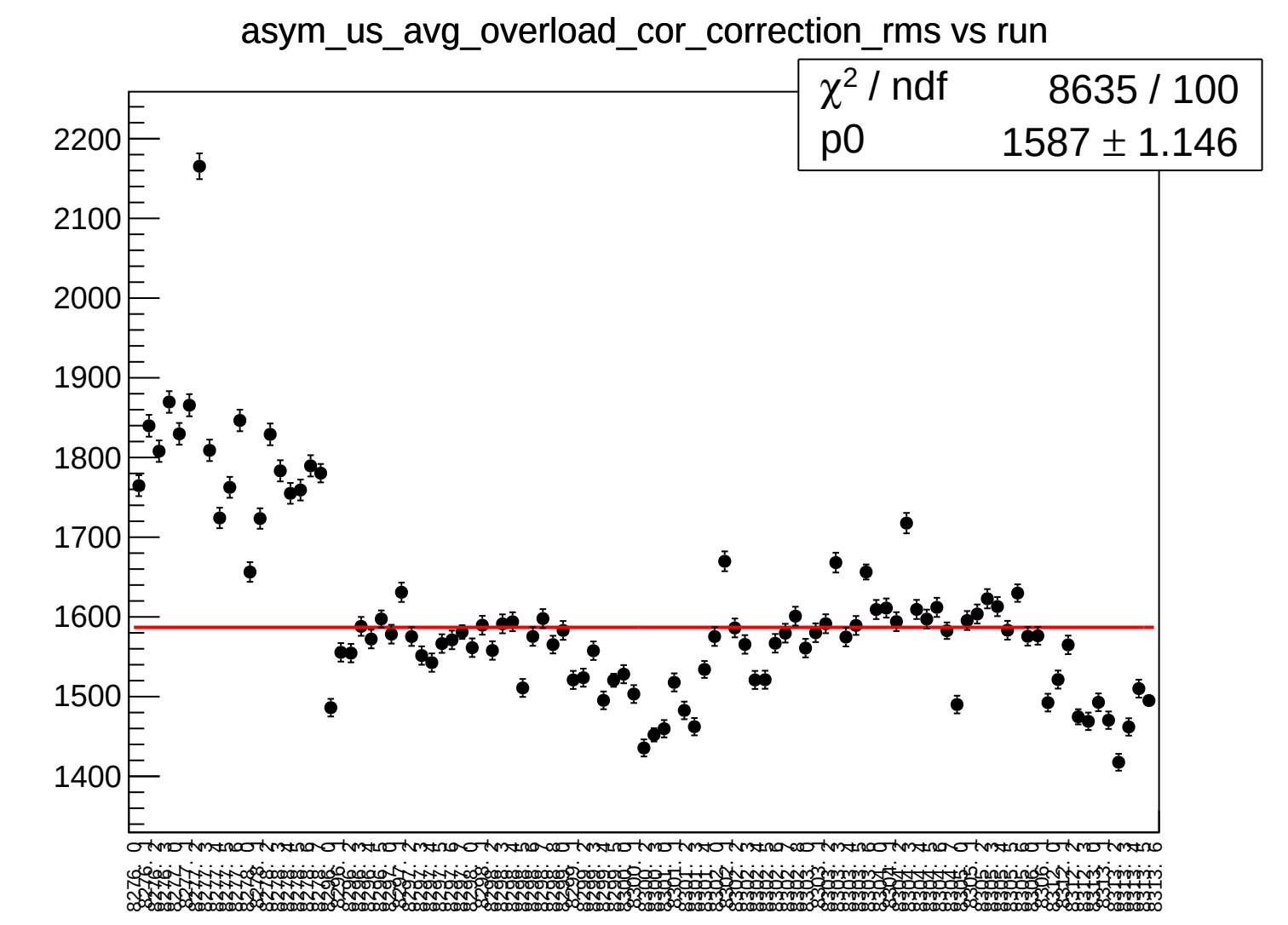
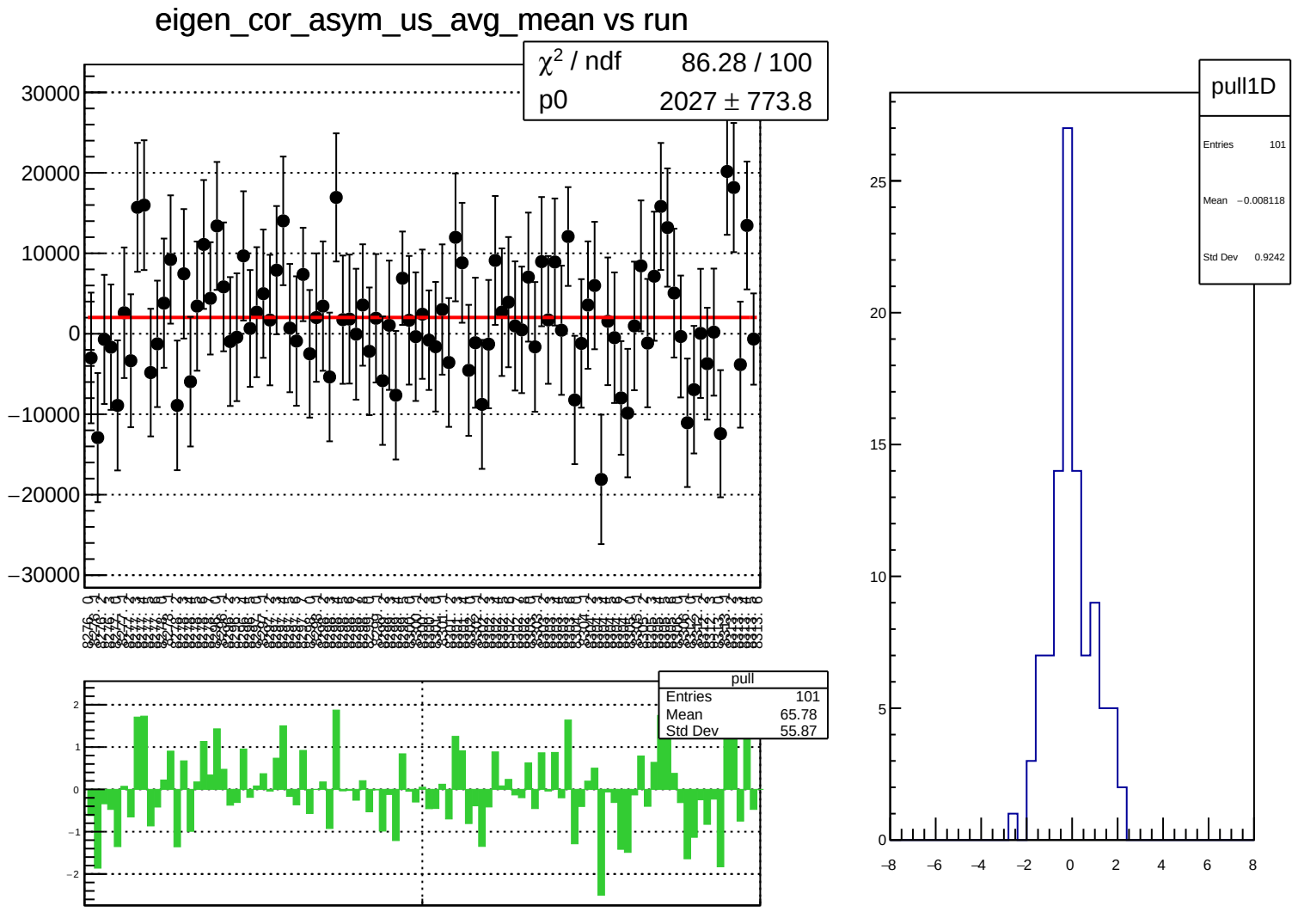
2
4
6
8


overload_cor_asym_us_avg_rms vs run
χ^2 / ndf 125 / 100
p0 758.7 ± 0.5465
790
780
770
760
750
740


asym_us_avg_overload_cor_correction_mean vs run
χ² / ndf 115.2 / 100
p0 −2273 ± 1620
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 101
Mean −626.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.01017
Std Dev 1.068
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 8635 / 100
p0 1587 ± 1.146
2200
2100
2000
1900
1800
1700
1600
1500
1400


eigen_cor_asym_us_avg_mean vs run
χ² / ndf 86.28 / 100
p0 2027 ± 773.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 101
Mean 65.78
Std Dev 55.87
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.008118
Std Dev 0.9242
25
20
15
10
5
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−8
−6
−4
−2
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2
4
6
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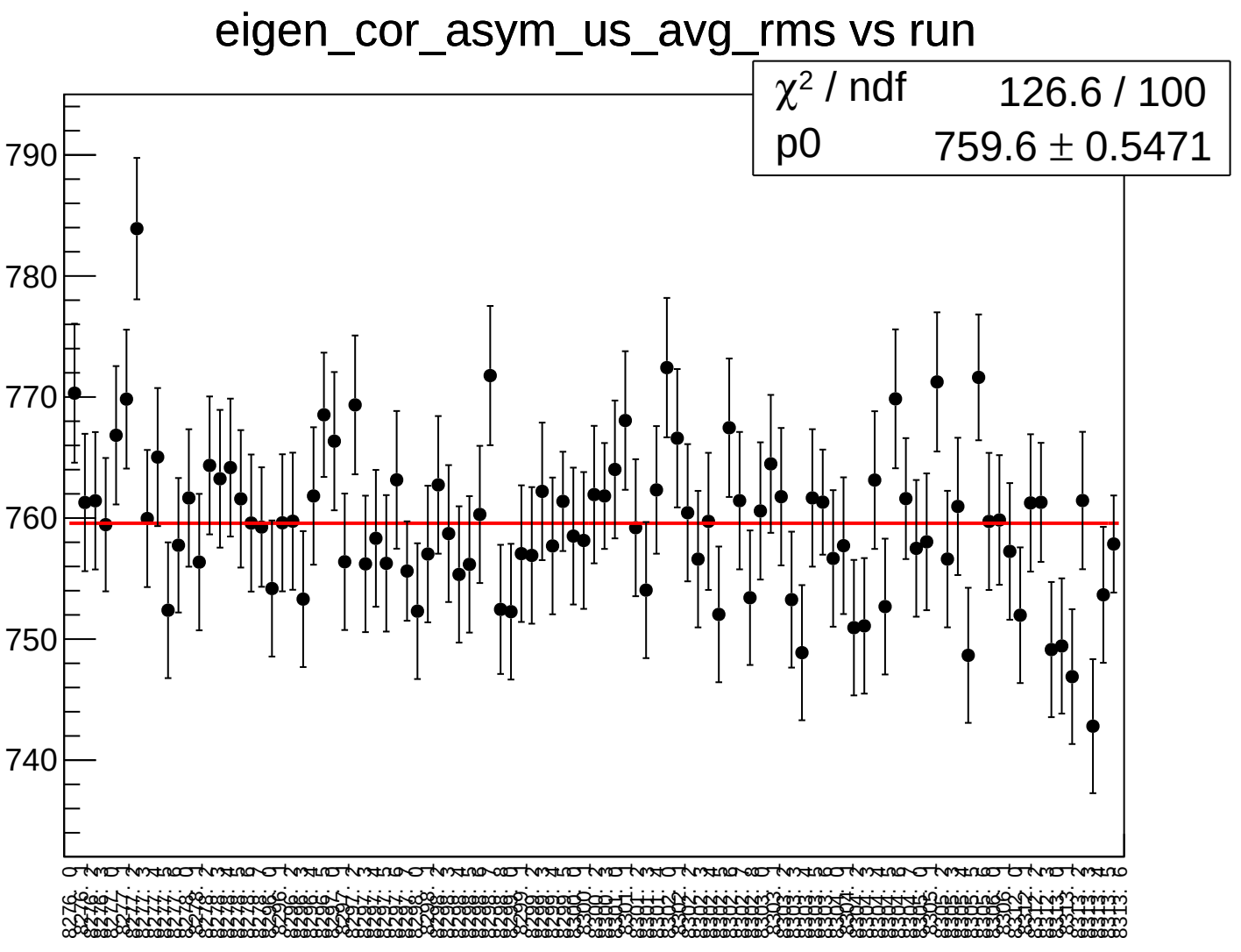
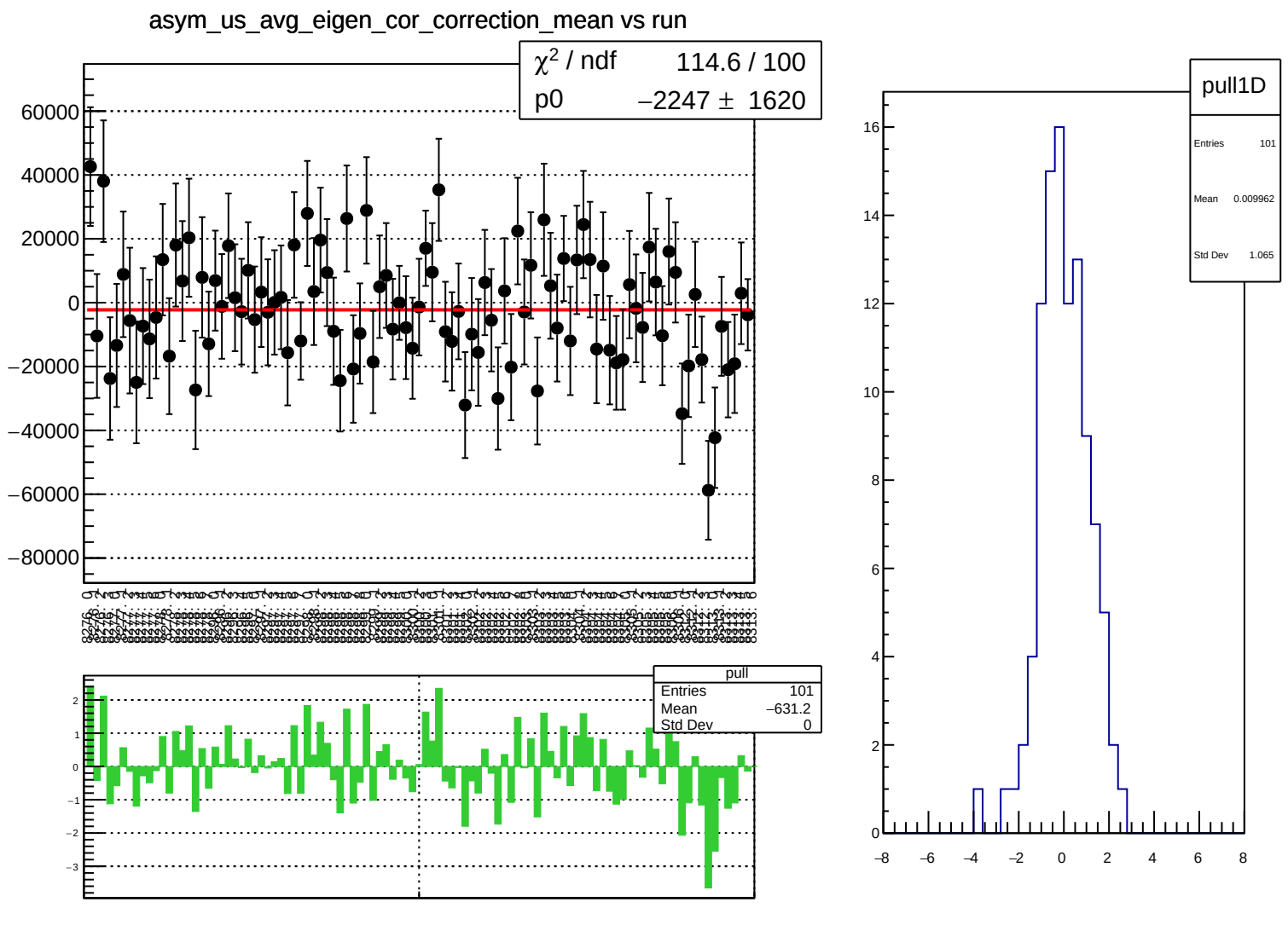
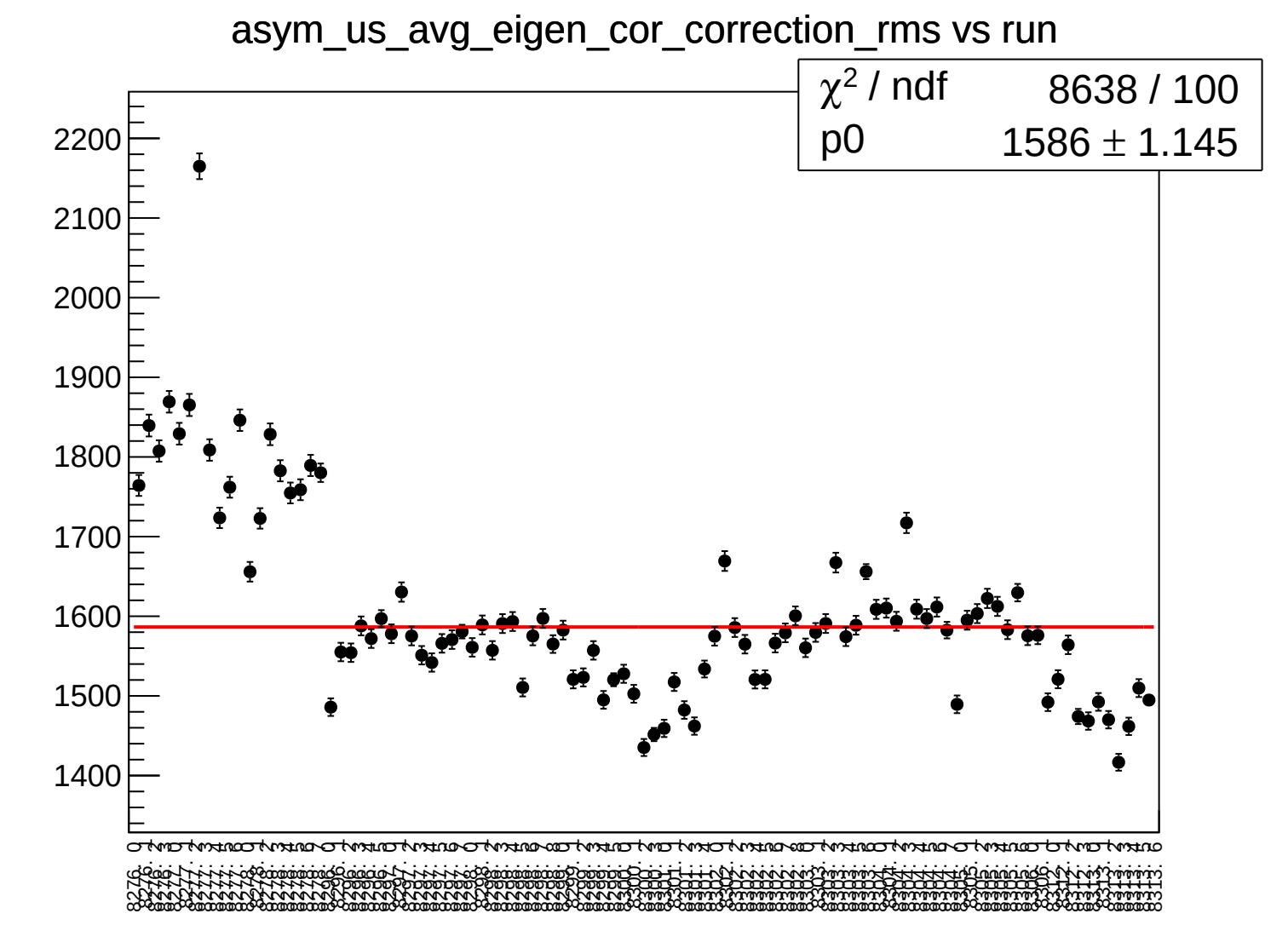
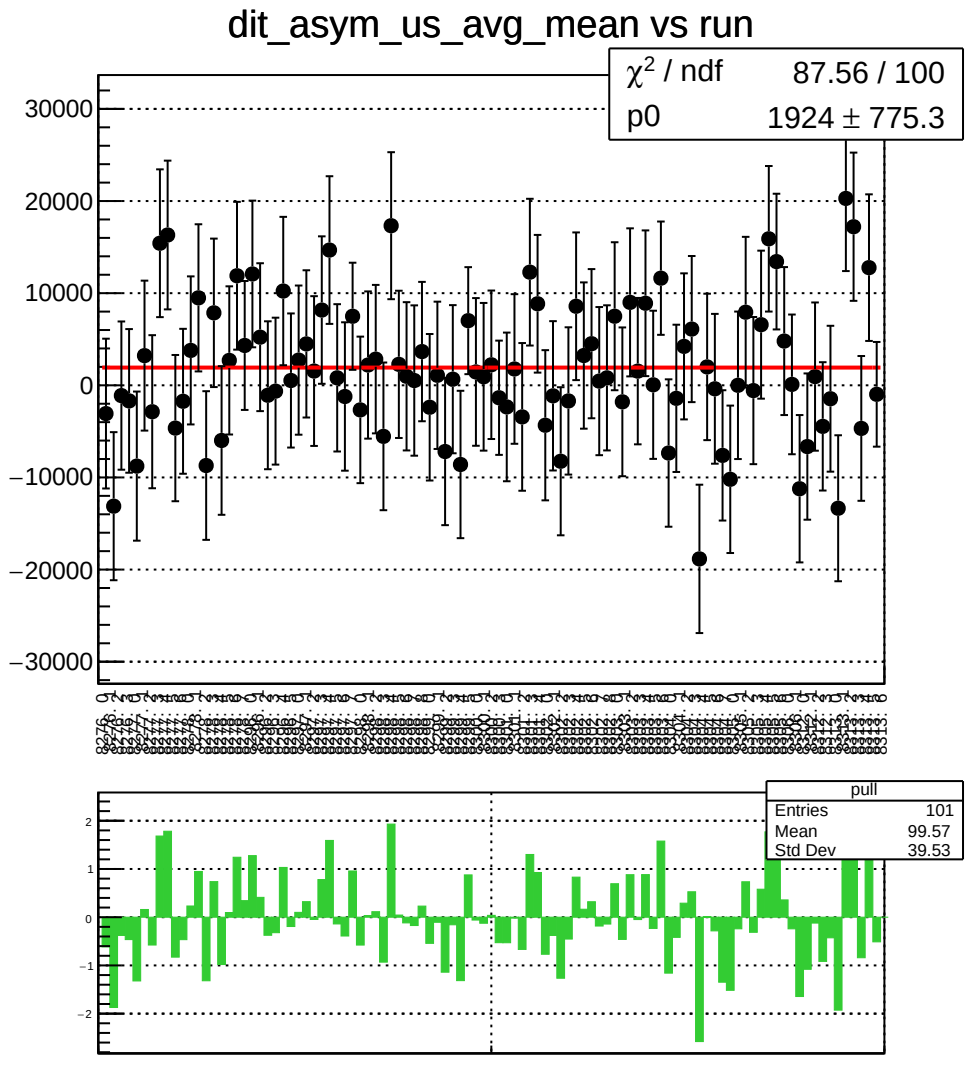
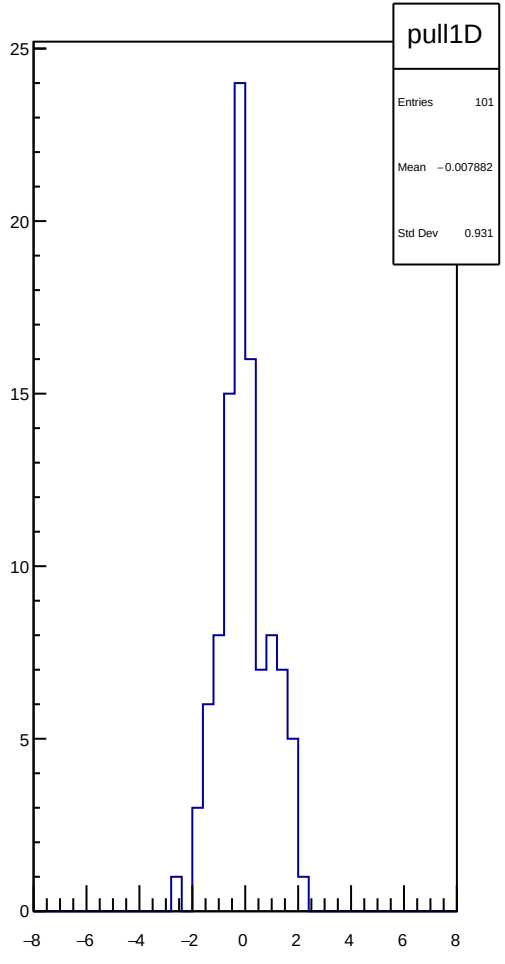
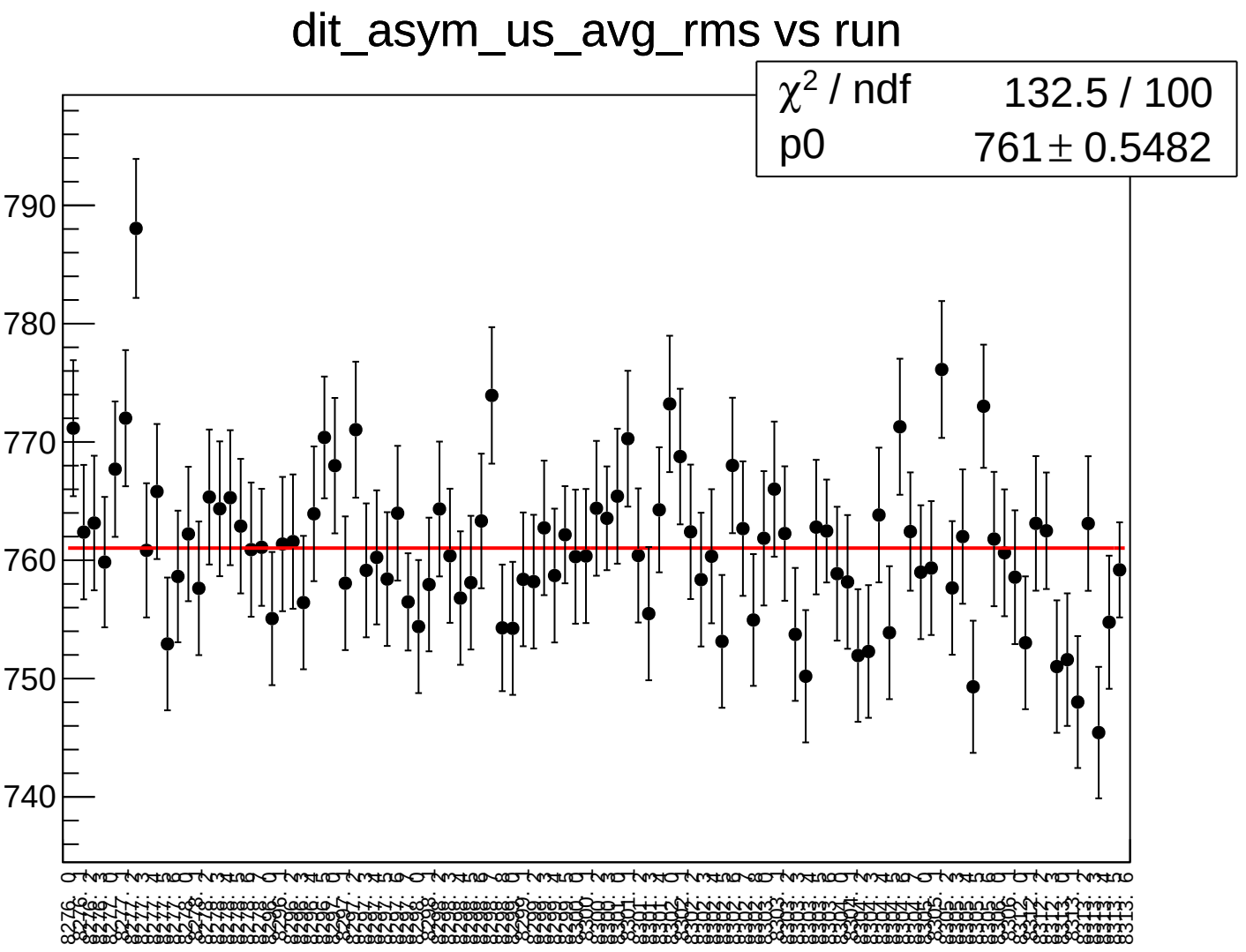

eigen_cor_asym_us_avg_rms vs run
χ² / ndf 126.6 / 100
p0 759.6 ± 0.5471
790
780
770
760
750
740

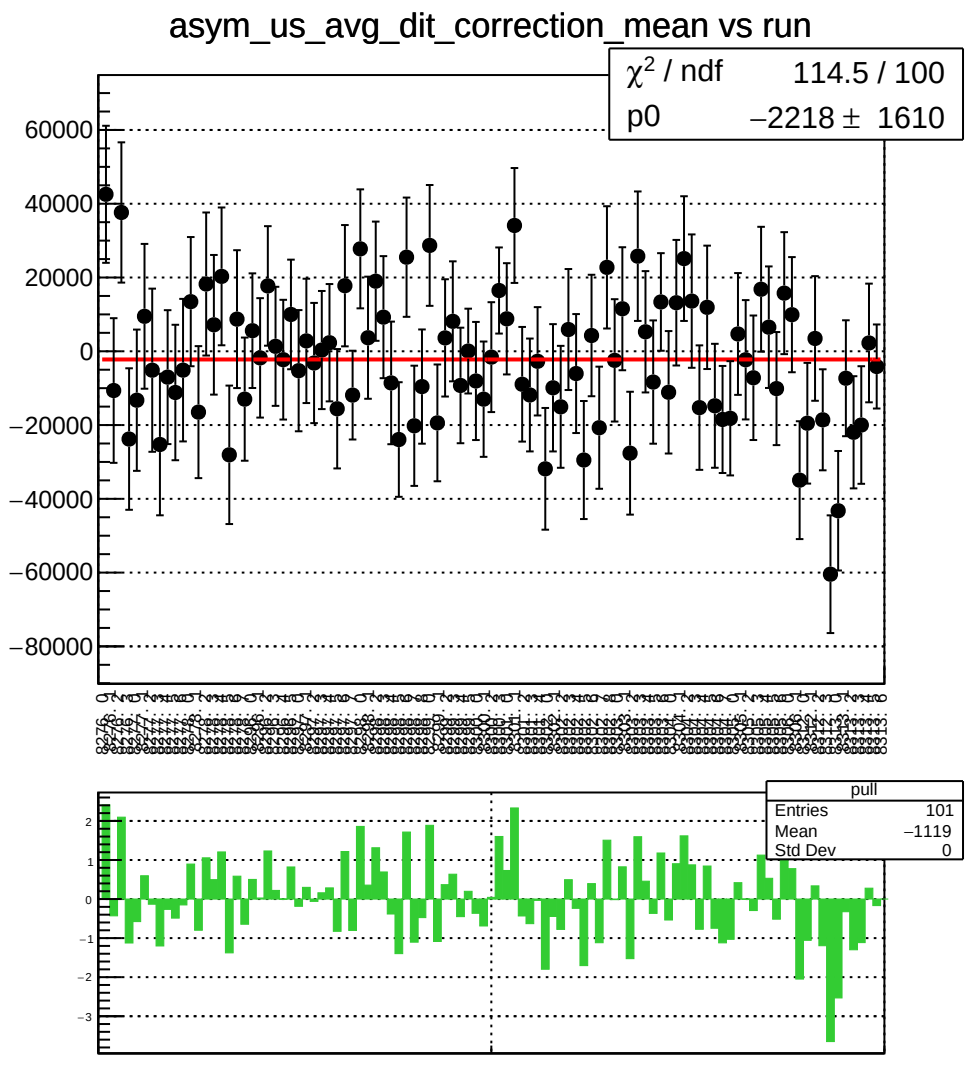

asym_us_avg_eigen_cor_correction_mean vs run
χ² / ndf 114.6 / 100
p0 −2247 ± 1620
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 101
Mean −631.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.009962
Std Dev 1.065
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

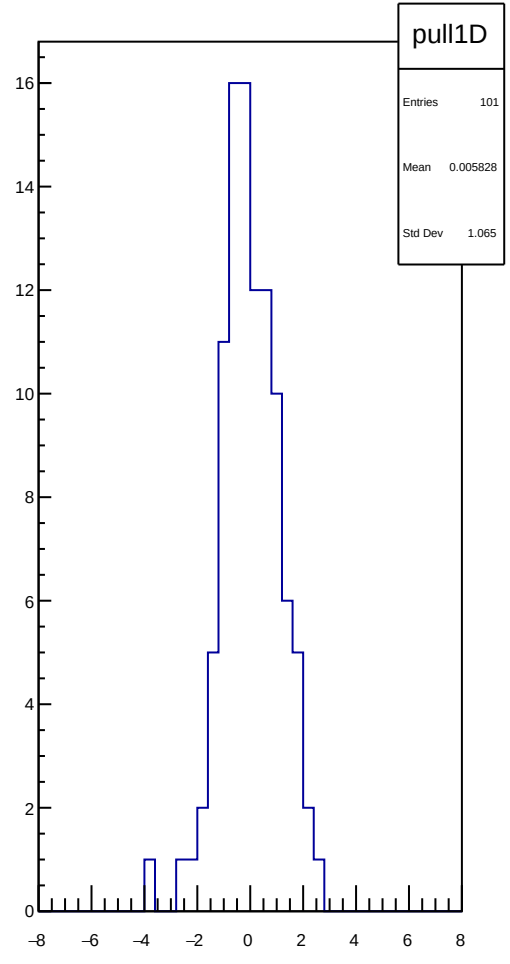

asym_us_avg_eigen_cor_correction_rms vs run
χ² / ndf 8638 / 100
p0 1586 ± 1.145
2200
2100
2000
1900
1800
1700
1600
1500
1400

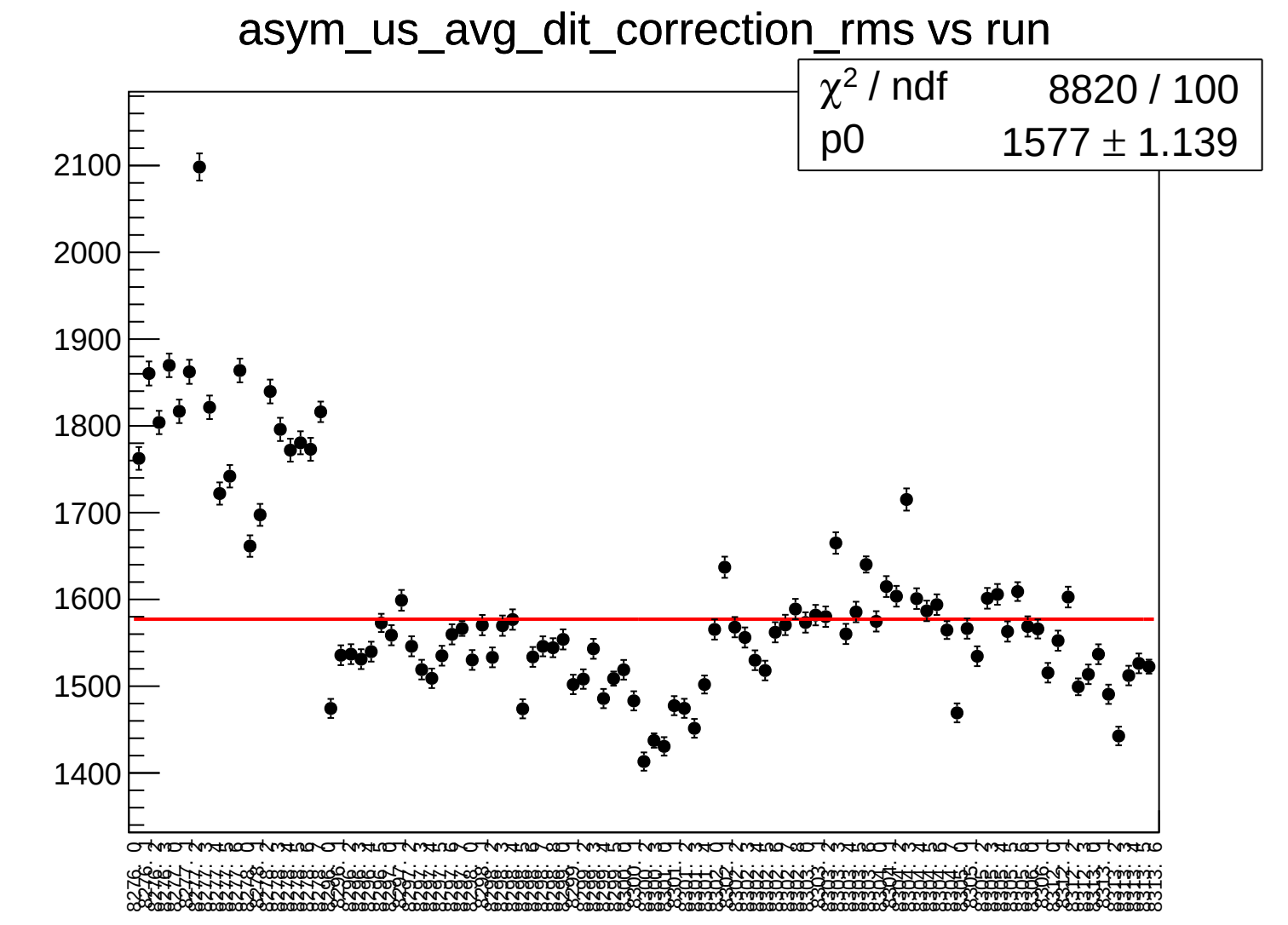

dit_asym_us_avg_mean vs run
χ² / ndf 87.56 / 100
p0 1924 ± 775.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 101
Mean 99.57
Std Dev 39.53
2
1
0
−1
−2

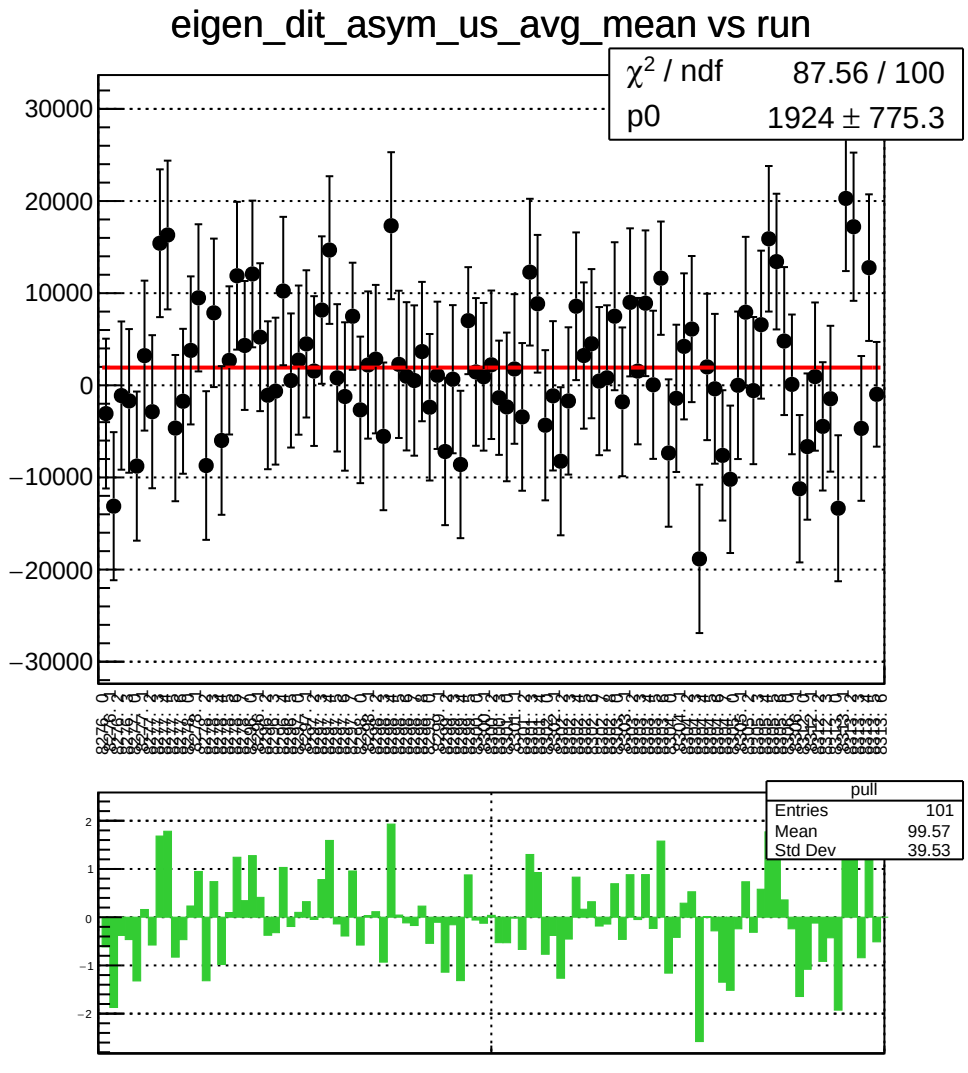

pull1D
Entries 101
Mean −0.007882
Std Dev 0.931
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

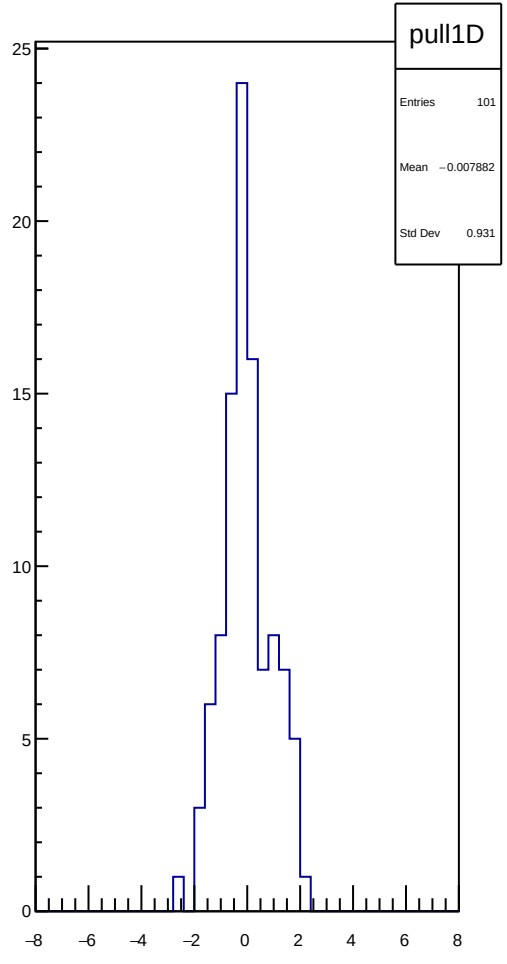

dit_asym_us_avg_rms vs run
χ² / ndf 132.5 / 100
p0 761 ± 0.5482
790
780
770
760
750
740


asym_us_avg_dit_correction_mean vs run
χ² / ndf 114.5 / 100
p0 −2218 ± 1610
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 101
Mean −1119
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 101
Mean 0.005828
Std Dev 1.065
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_dit_correction_rms vs run
χ² / ndf 8820 / 100
p0 1577 ± 1.139
2100
2000
1900
1800
1700
1600
1500
1400


eigen_dit_asym_us_avg_mean vs run
χ² / ndf 87.56 / 100
p0 1924 ± 775.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 101
Mean 99.57
Std Dev 39.53
2
1
0
−1
−2


pull1D
Entries 101
Mean −0.007882
Std Dev 0.931
25
20
15
10
5
0
−8
−6
−4
−2
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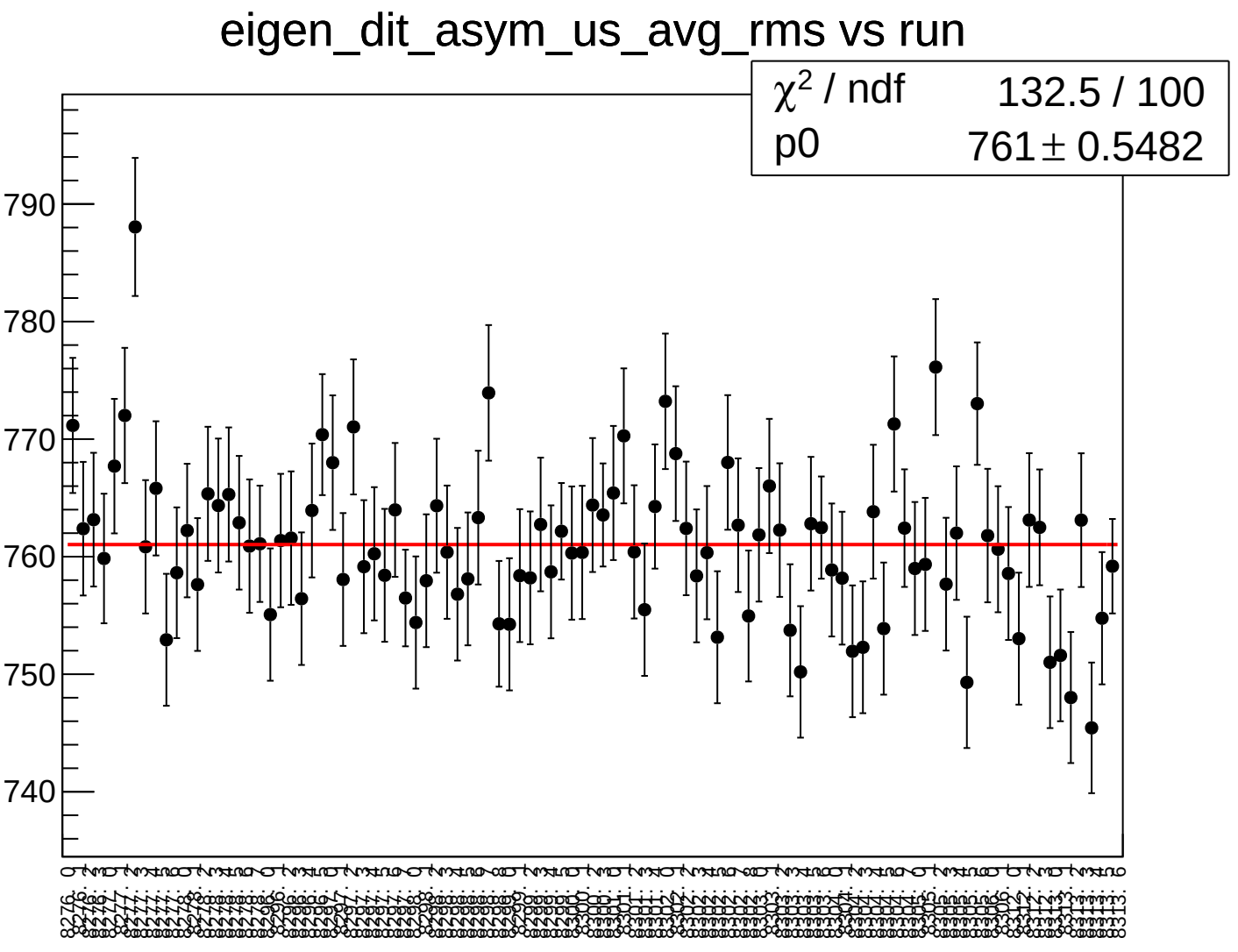
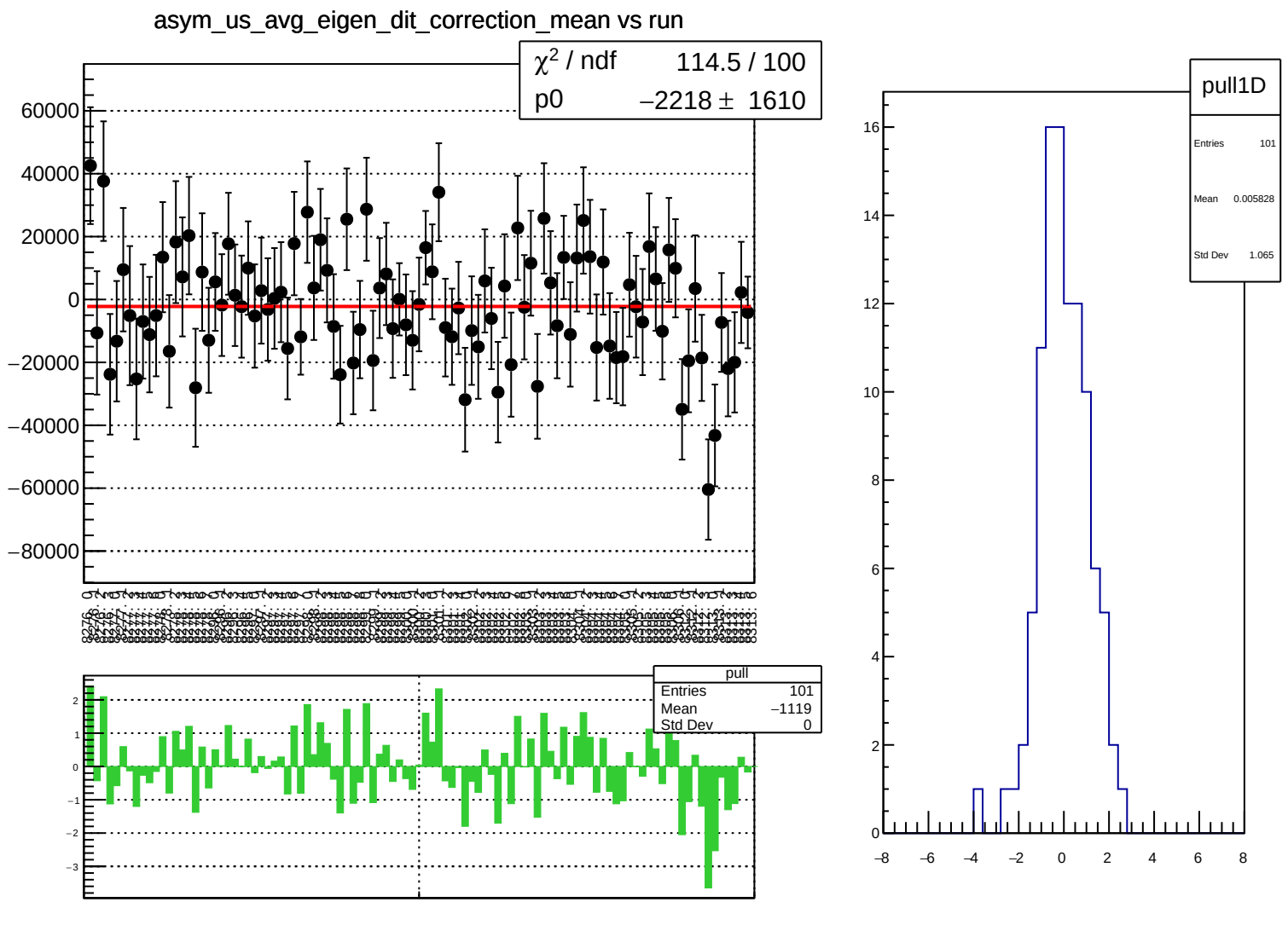
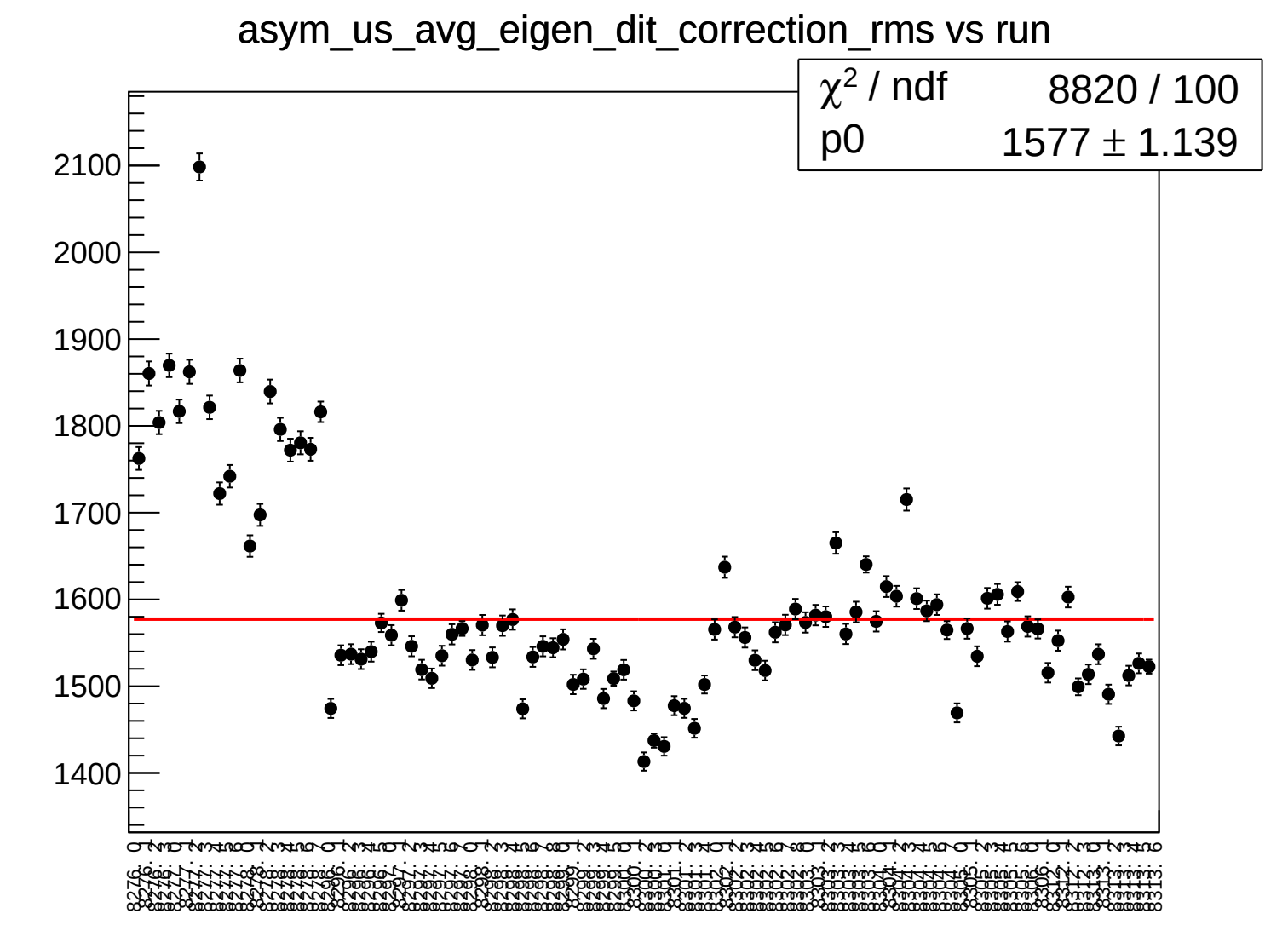
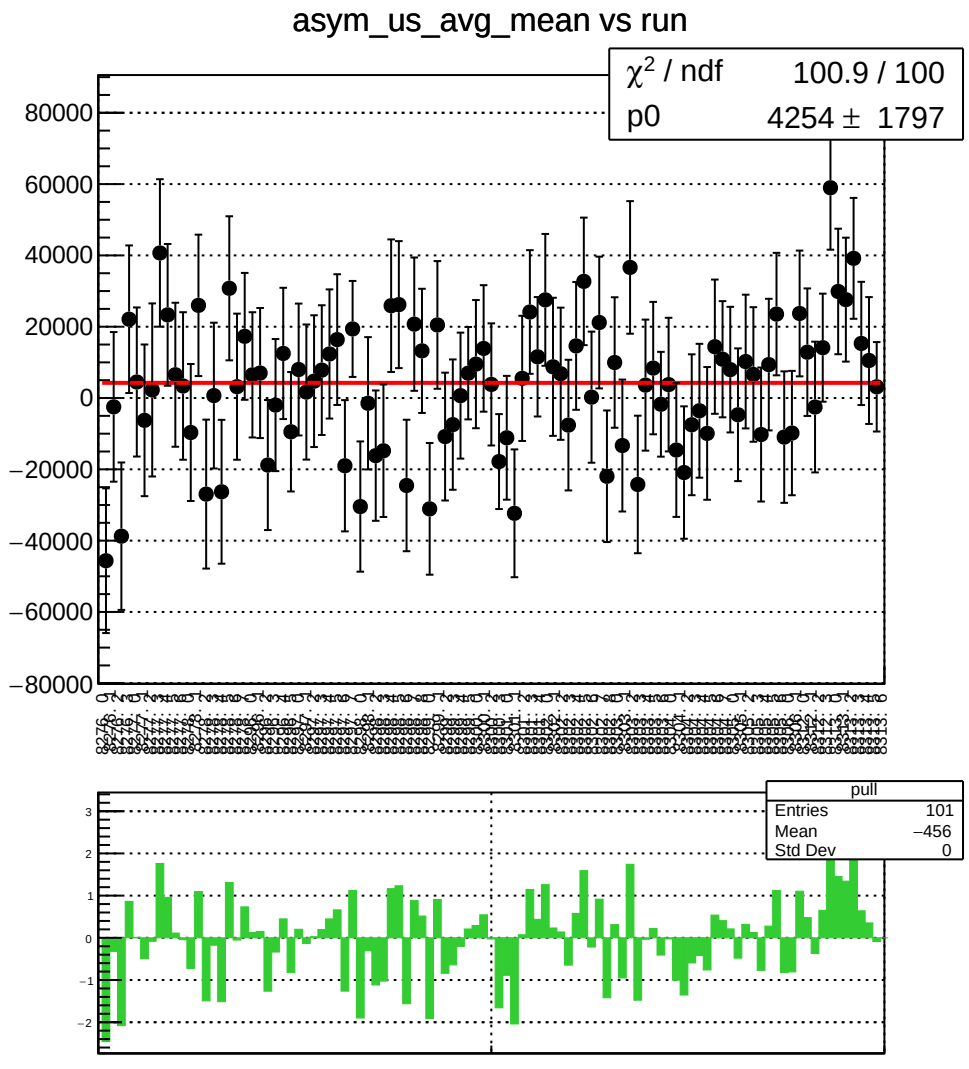
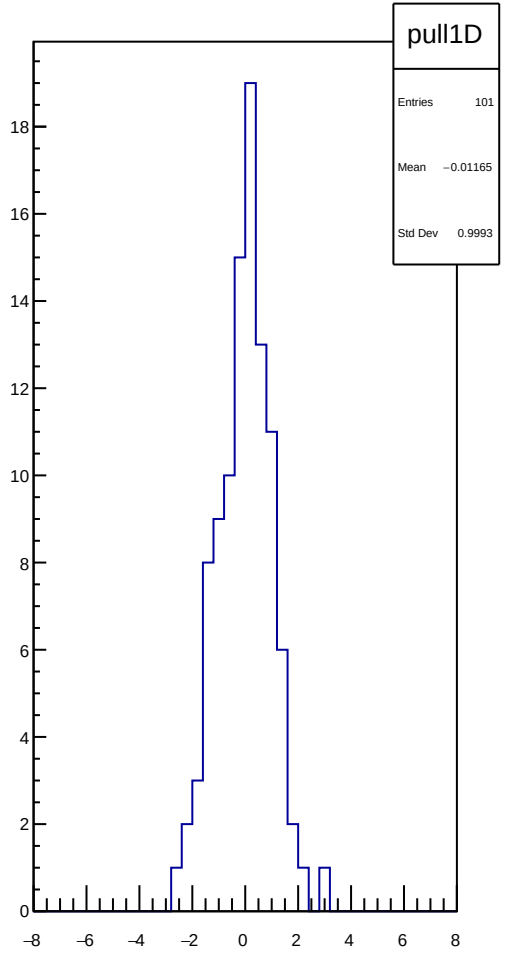
2
4
6
8

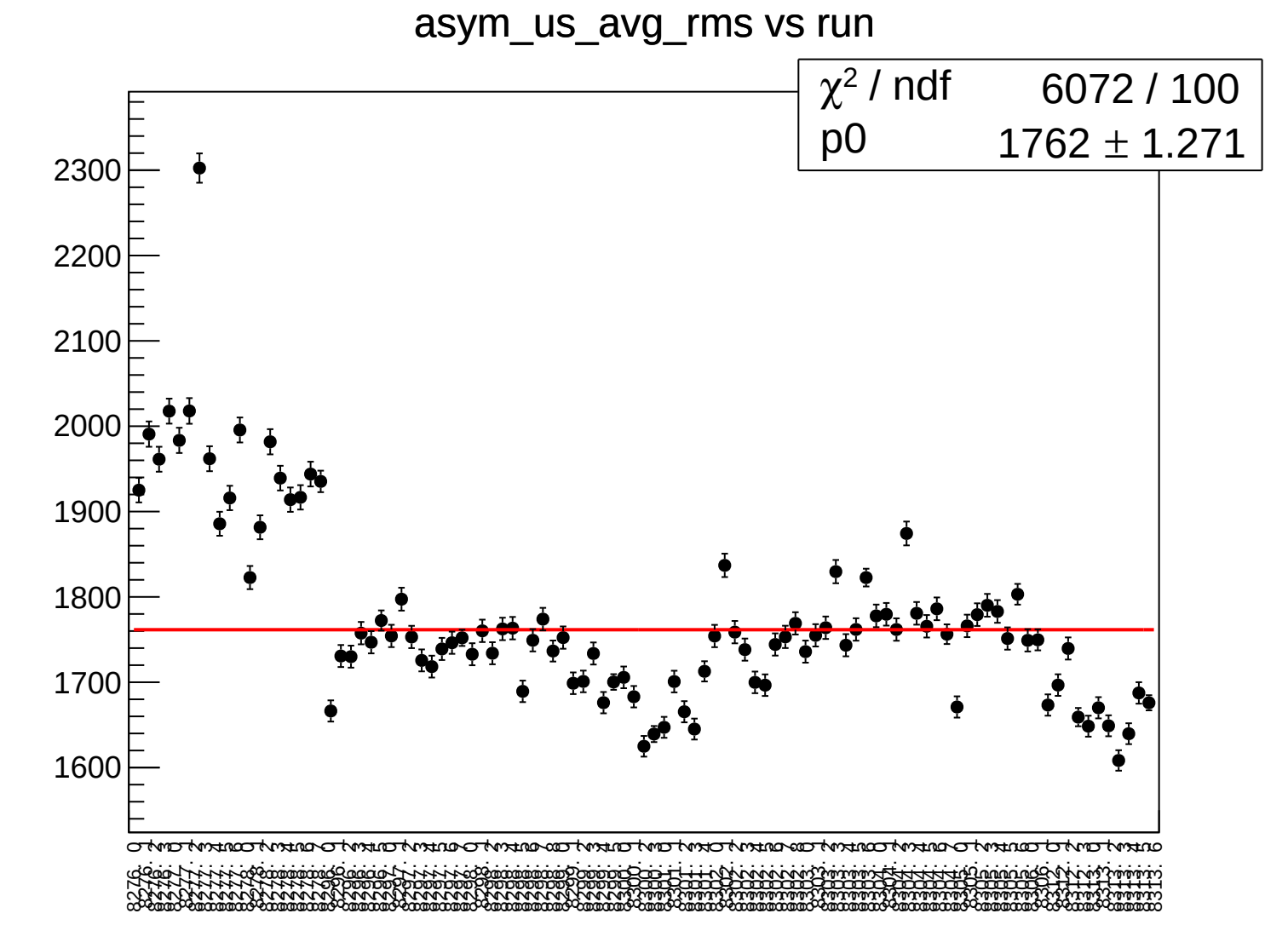

eigen_dit_asym_us_avg_rms vs run
χ² / ndf 132.5 / 100
p0 761 ± 0.5482
790
780
770
760
750
740

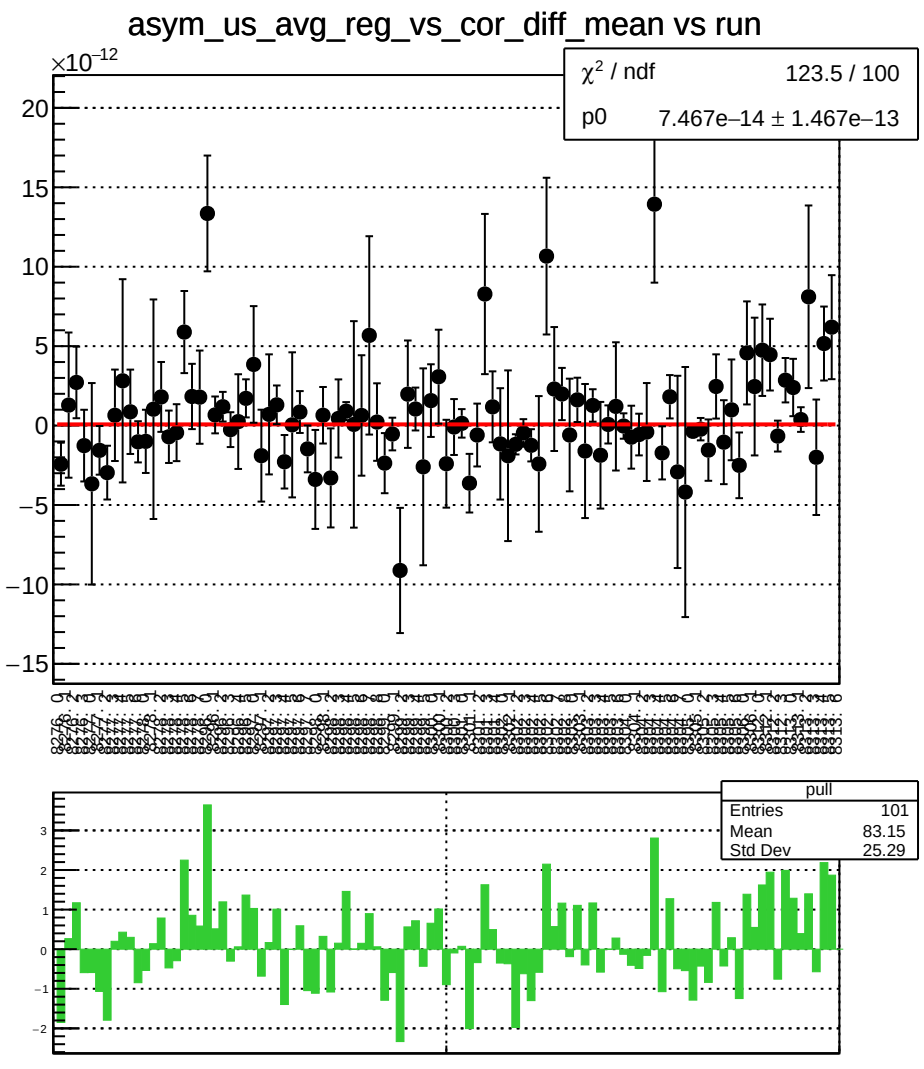

asym_us_avg_eigen_dit_correction_mean vs run
χ² / ndf 114.5 / 100
p0 −2218 ± 1610
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 101
Mean −1119
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.005828
Std Dev 1.065
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

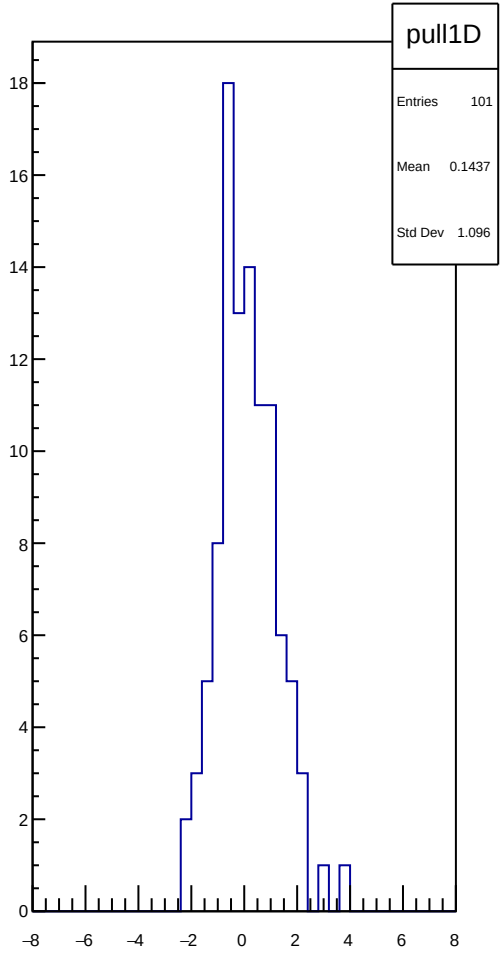

asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 8820 / 100
p0 1577 ± 1.139
2100
2000
1900
1800
1700
1600
1500
1400

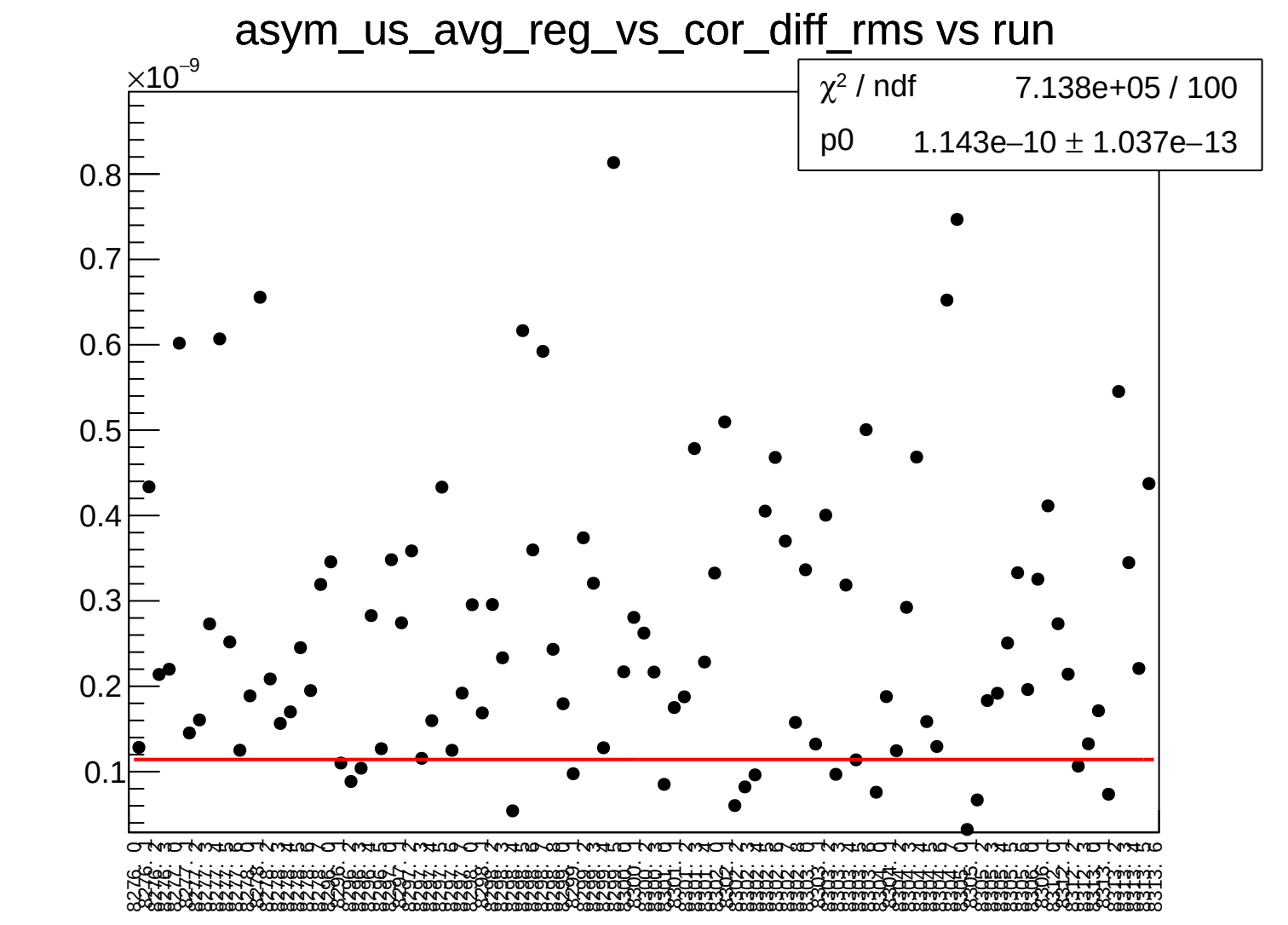

asym_us_avg_mean vs run
χ² / ndf 100.9 / 100
p0 4254 ± 1797
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 101
Mean −456
Std Dev 0
3
2
1
0
−1
−2

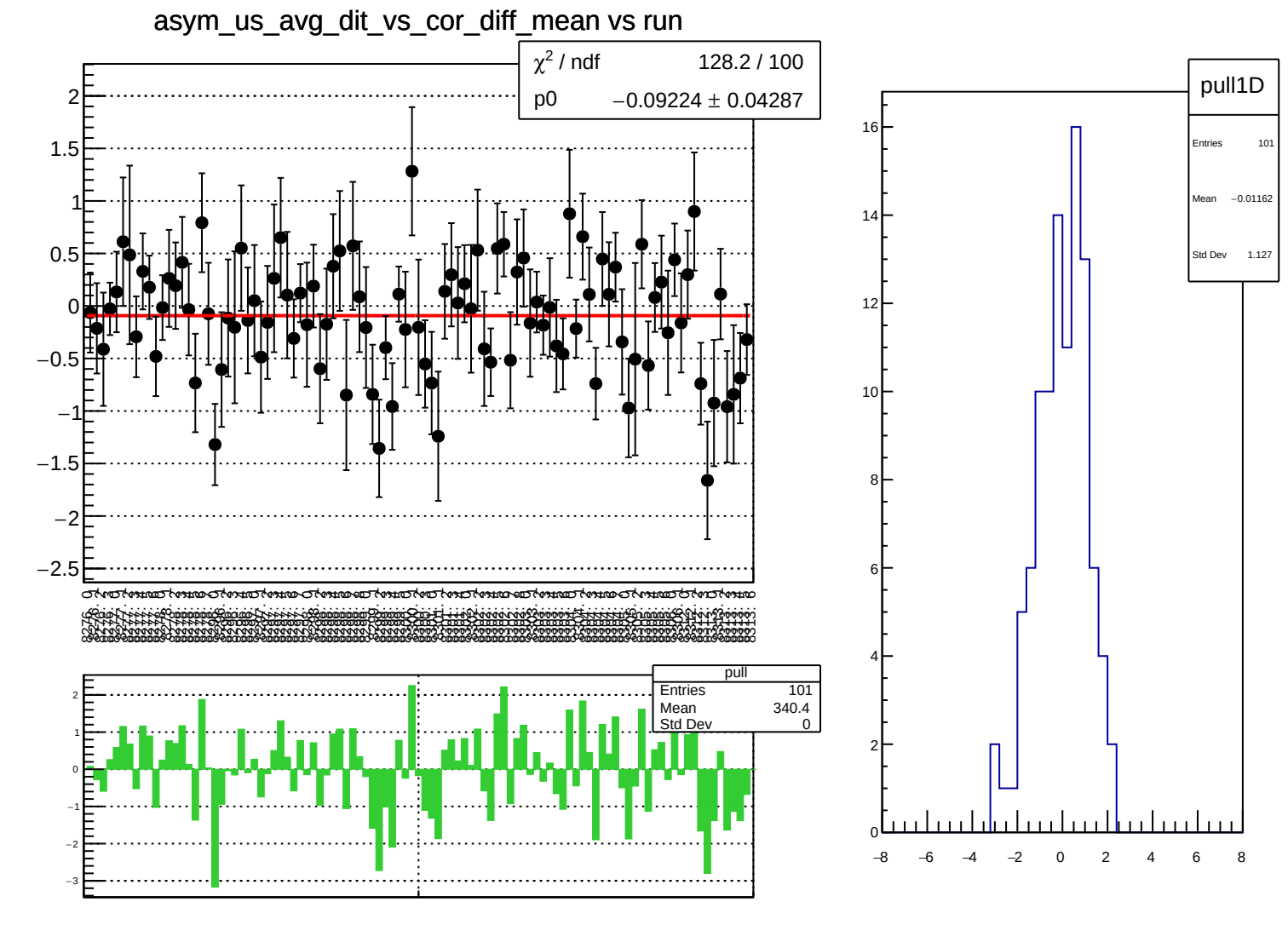

pull1D
Entries 101
Mean −0.01165
Std Dev 0.9993
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

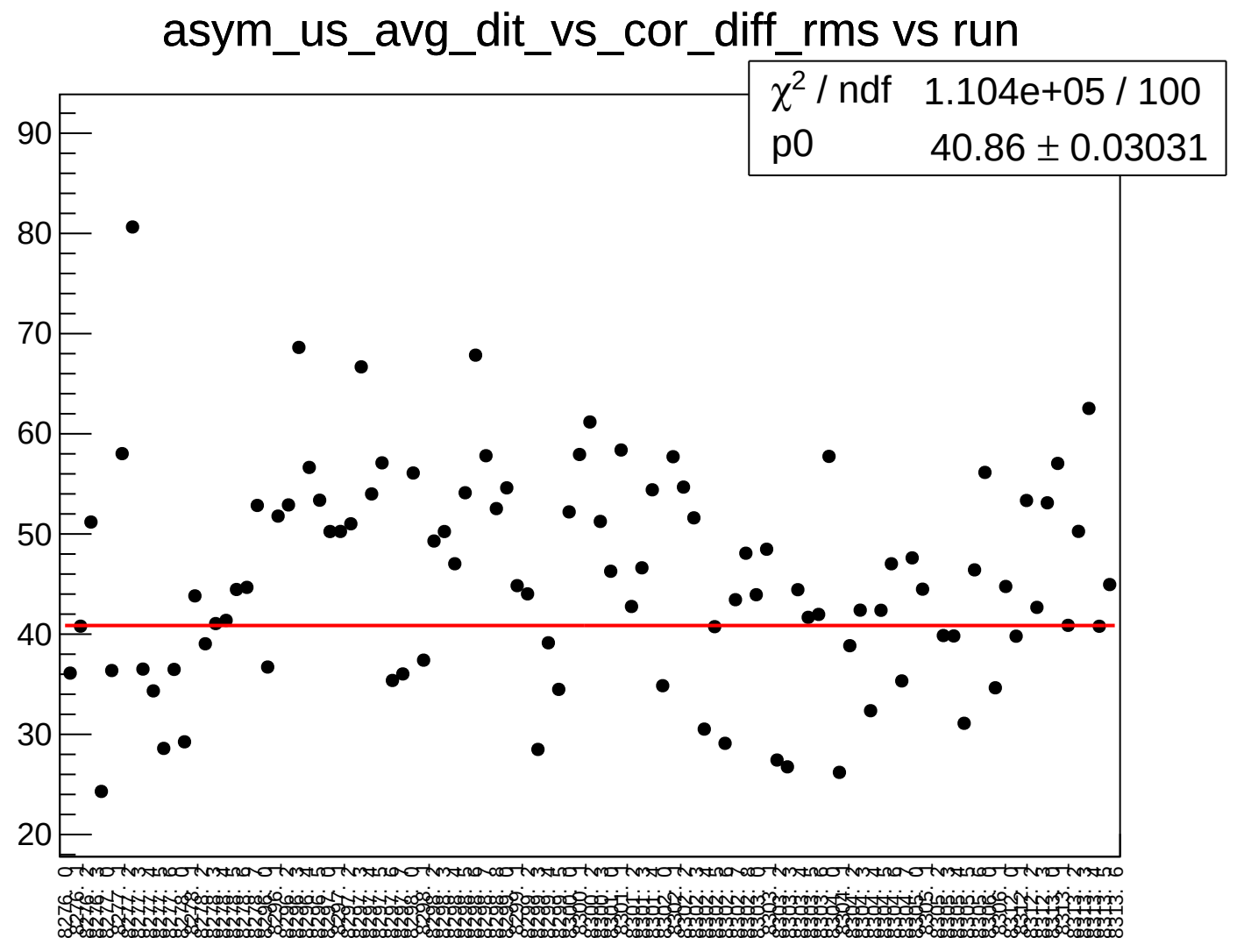

asym_us_avg_rms vs run
χ^2 / ndf 6072 / 100
p0 1762 ± 1.271
2300
2200
2100
2000
1900
1800
1700
1600

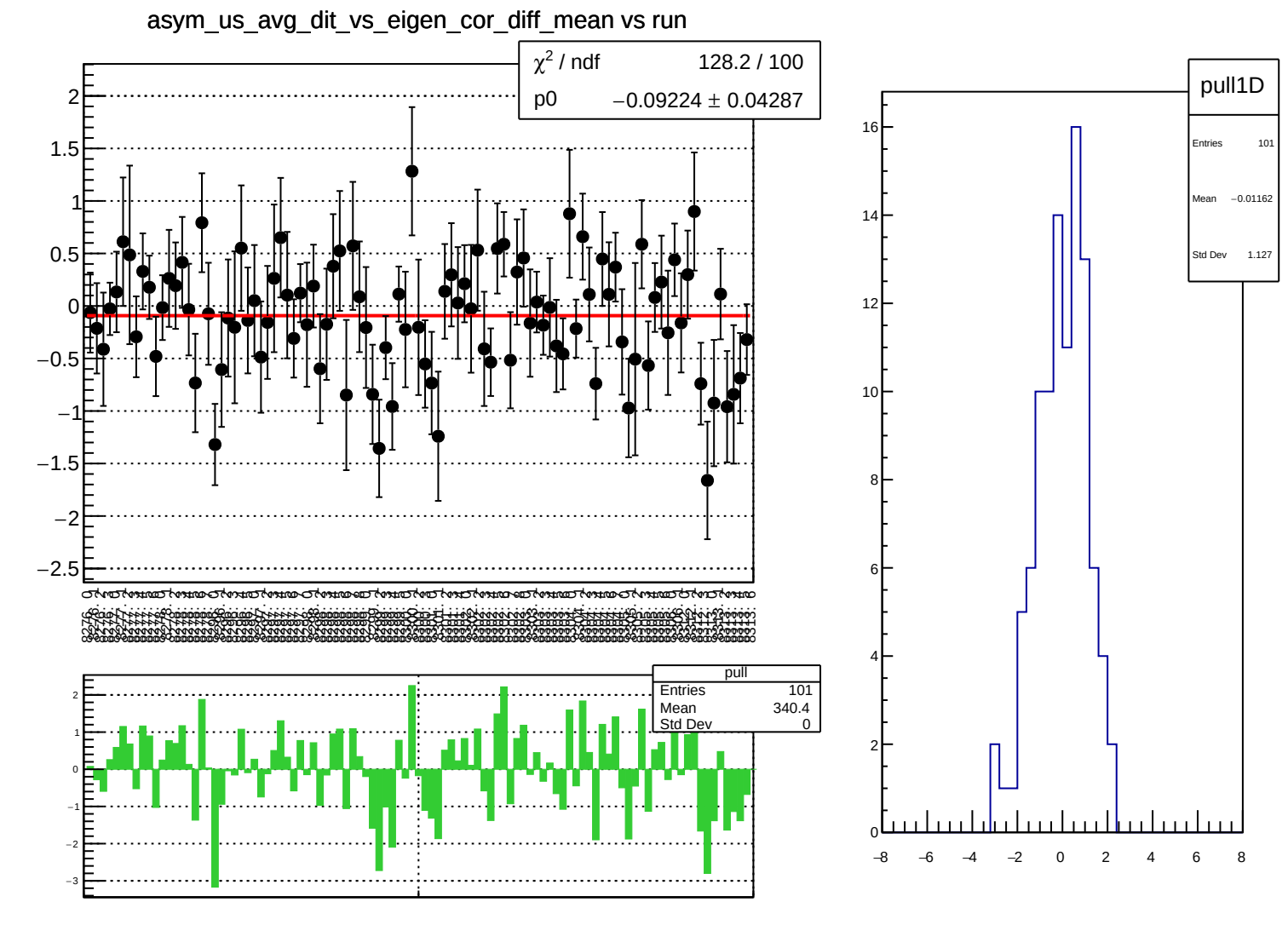

asym_us_avg_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 123.5 / 100
p0 7.467e−14 ± 1.467e−13
pull
Entries 101
Mean 83.15
Std Dev 25.29

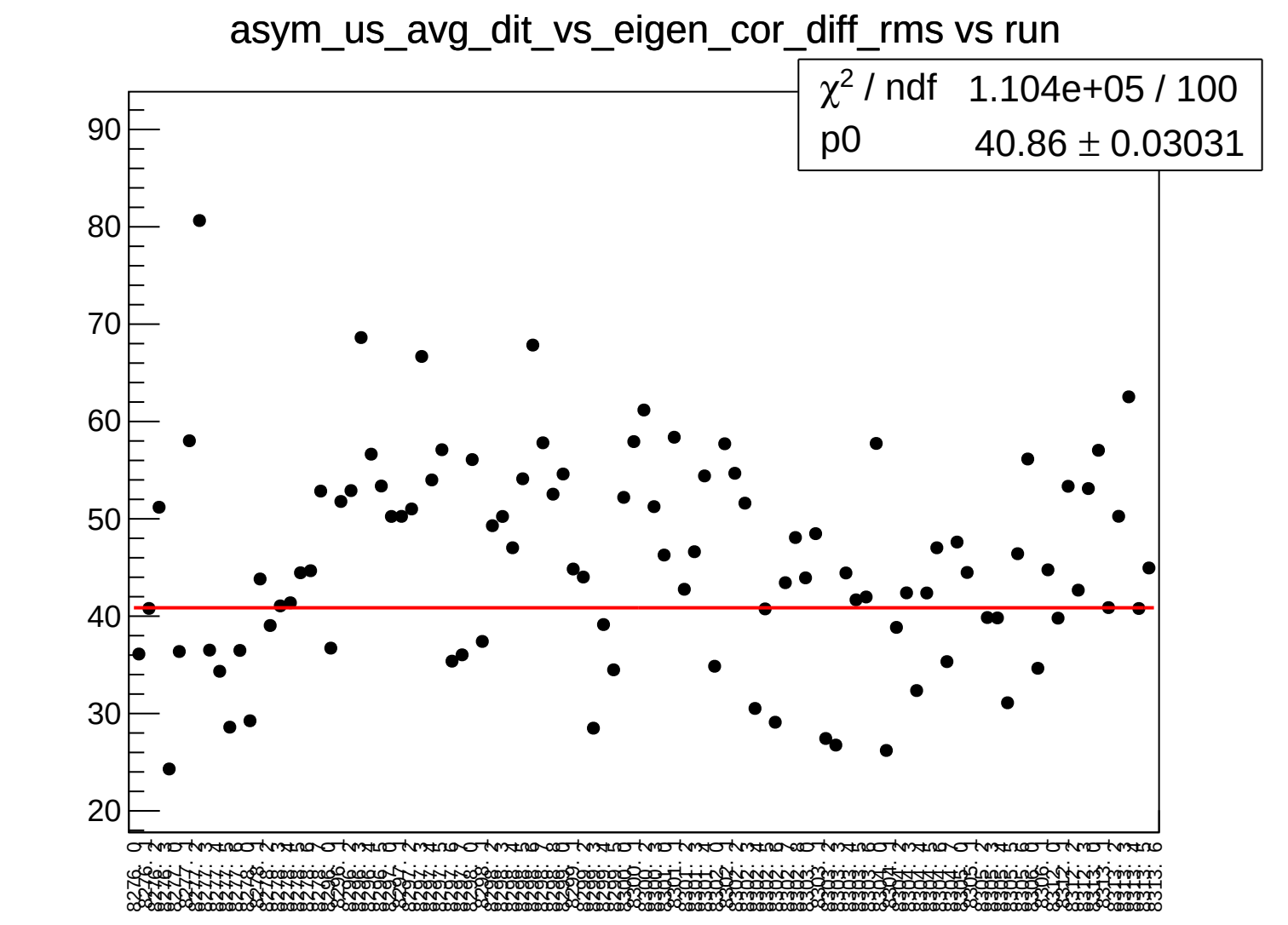

pull1D
Entries 101
Mean 0.1437
Std Dev 1.096

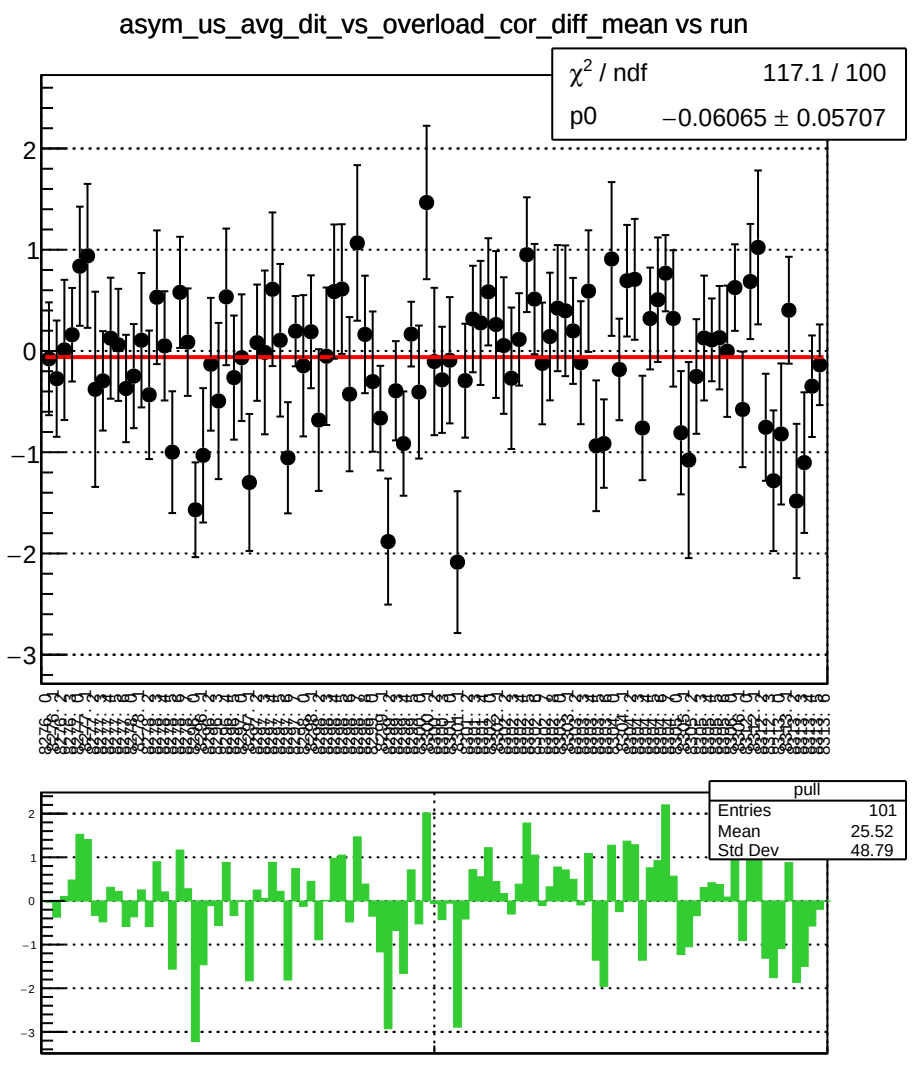

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.138e+05 / 100
p0 1.143e−10 ± 1.037e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

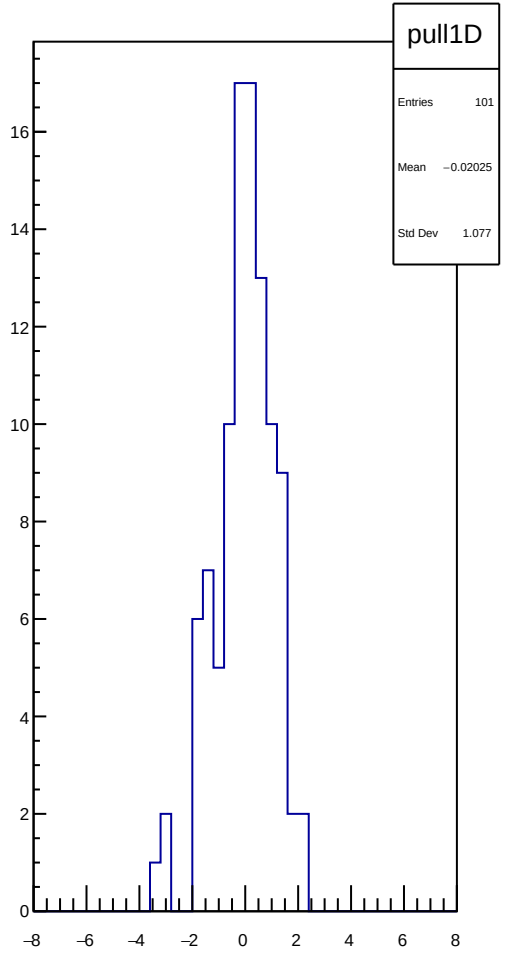

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 128.2 / 100
p0 −0.09224 ± 0.04287
pull
Entries 101
Mean 340.4
Std Dev 0
pull1D
Entries 101
Mean −0.01162
Std Dev 1.127

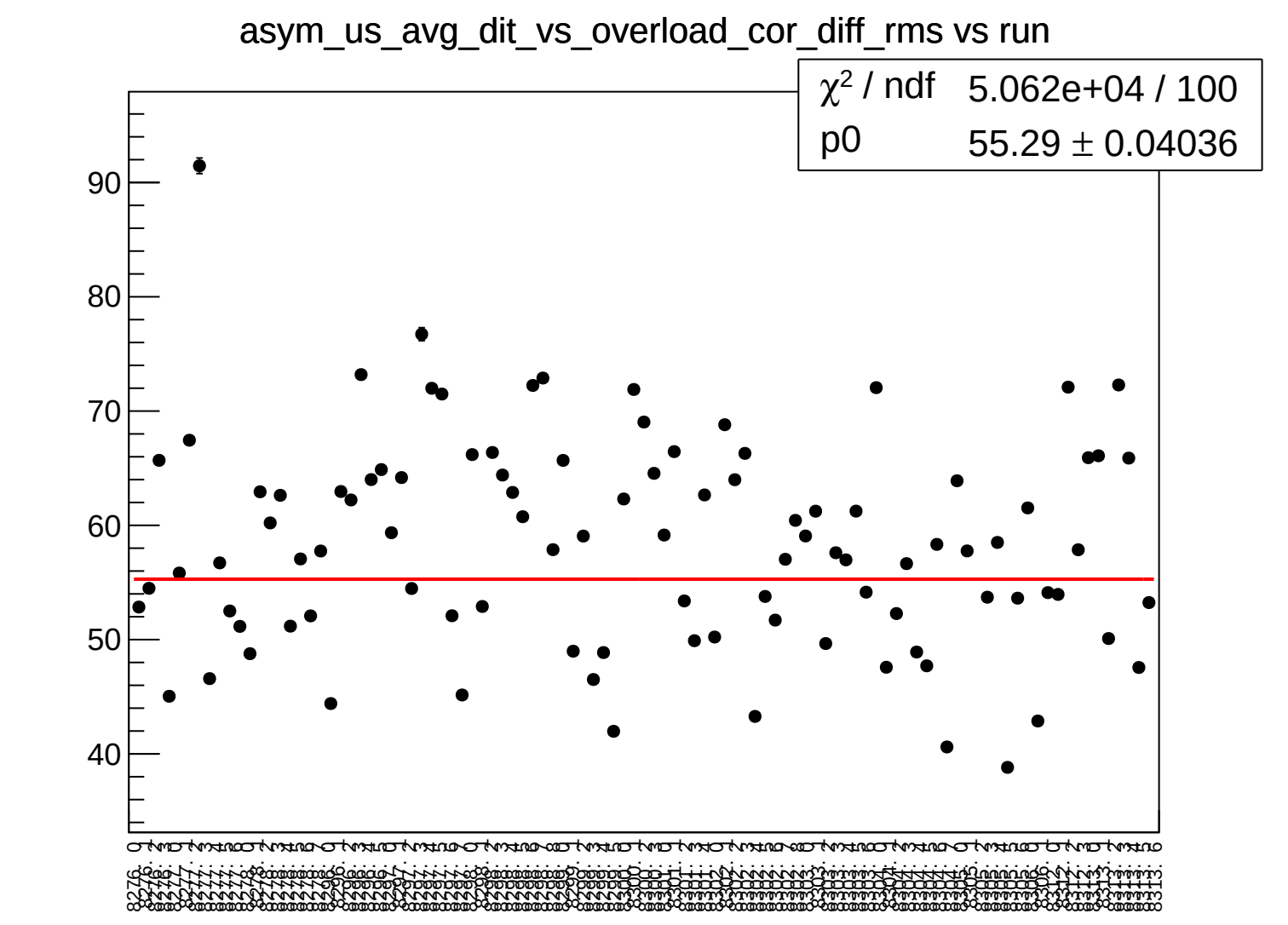

asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.104e+05 / 100
p0 40.86 ± 0.03031
90
80
70
60
50
40
30
20

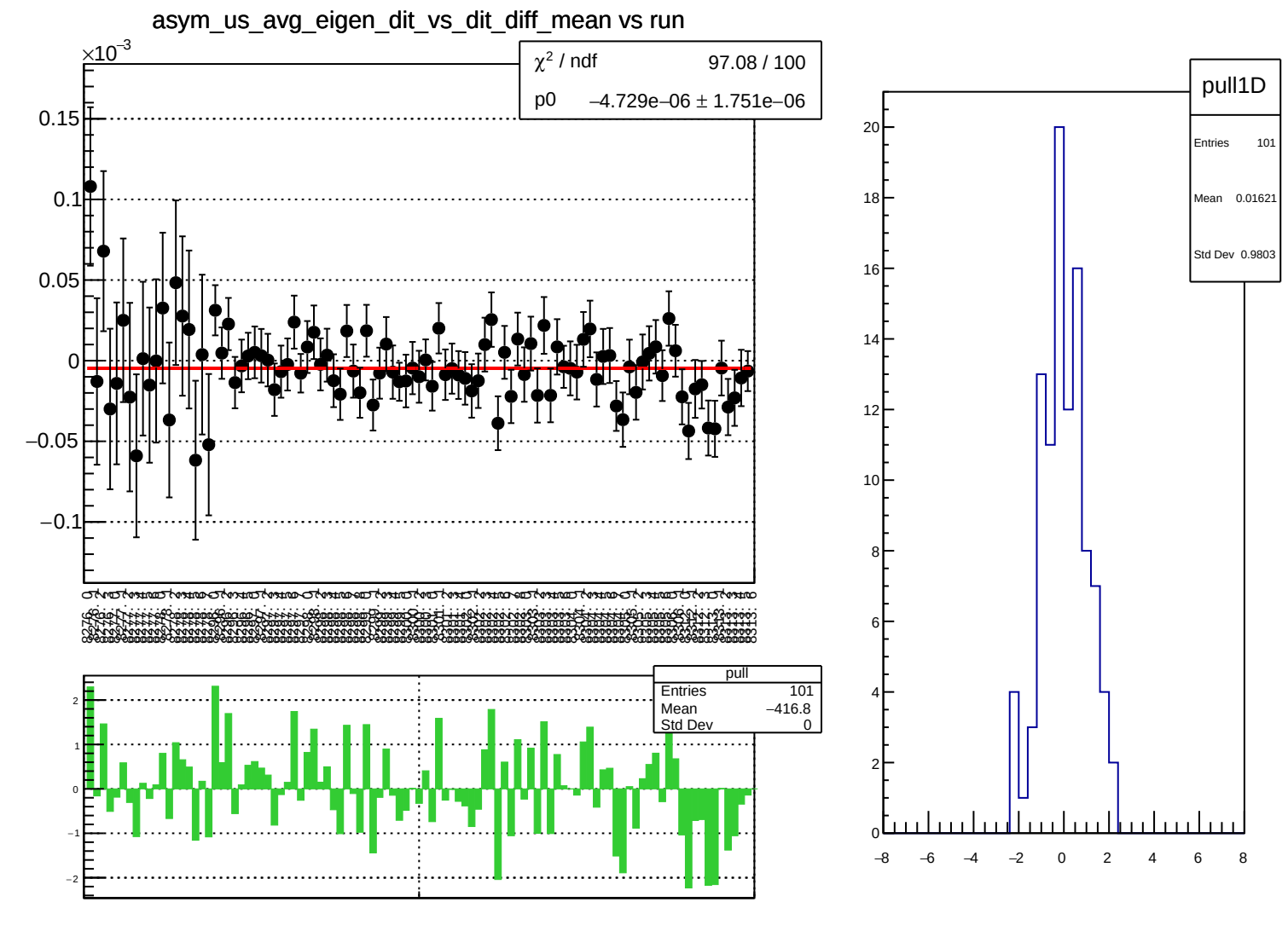

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 128.2 / 100
p0 −0.09224 ± 0.04287
pull
Entries 101
Mean 340.4
Std Dev 0
pull1D
Entries 101
Mean −0.01162
Std Dev 1.127

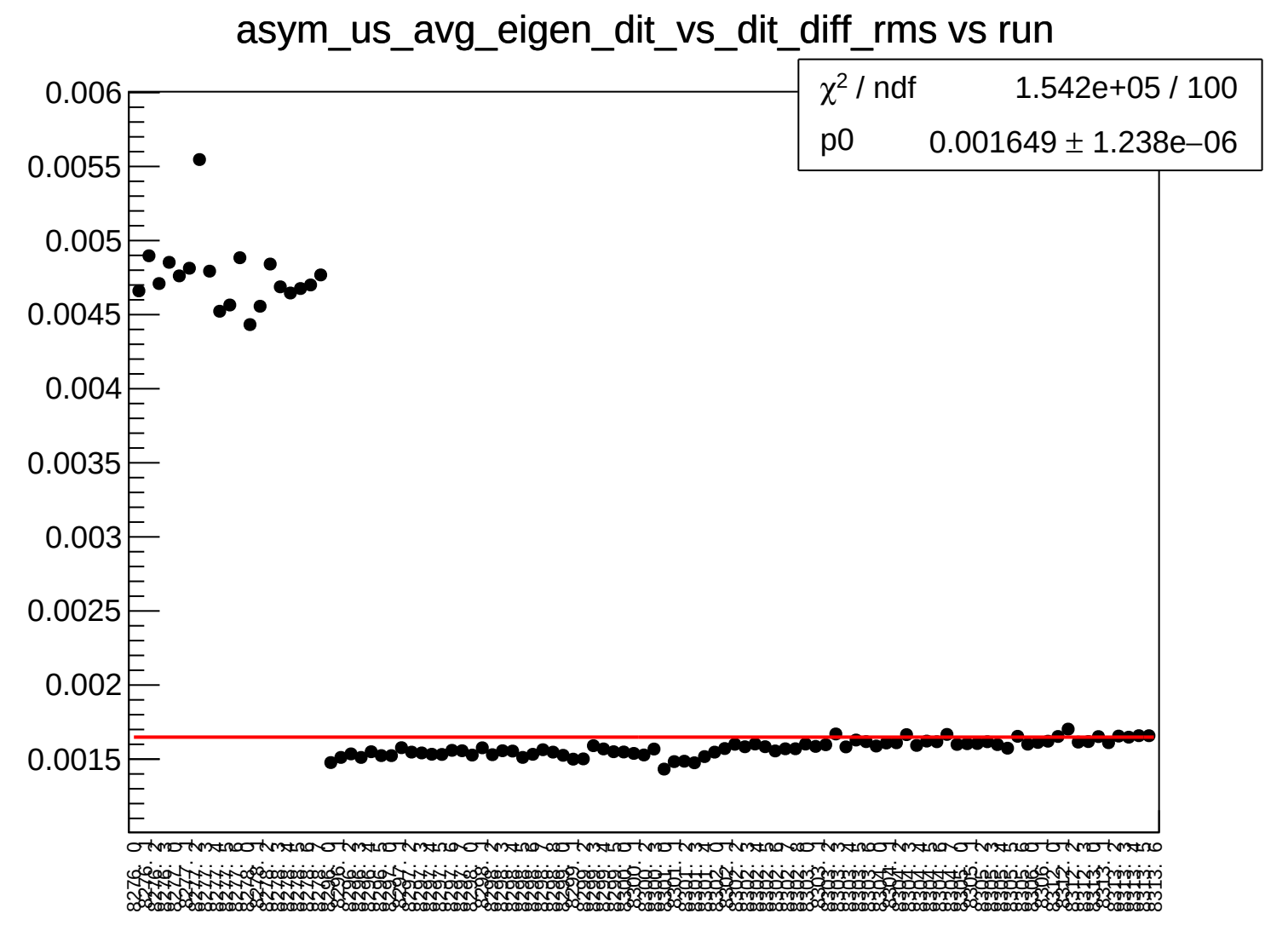

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.104e+05 / 100
p0 40.86 ± 0.03031
90
80
70
60
50
40
30
20

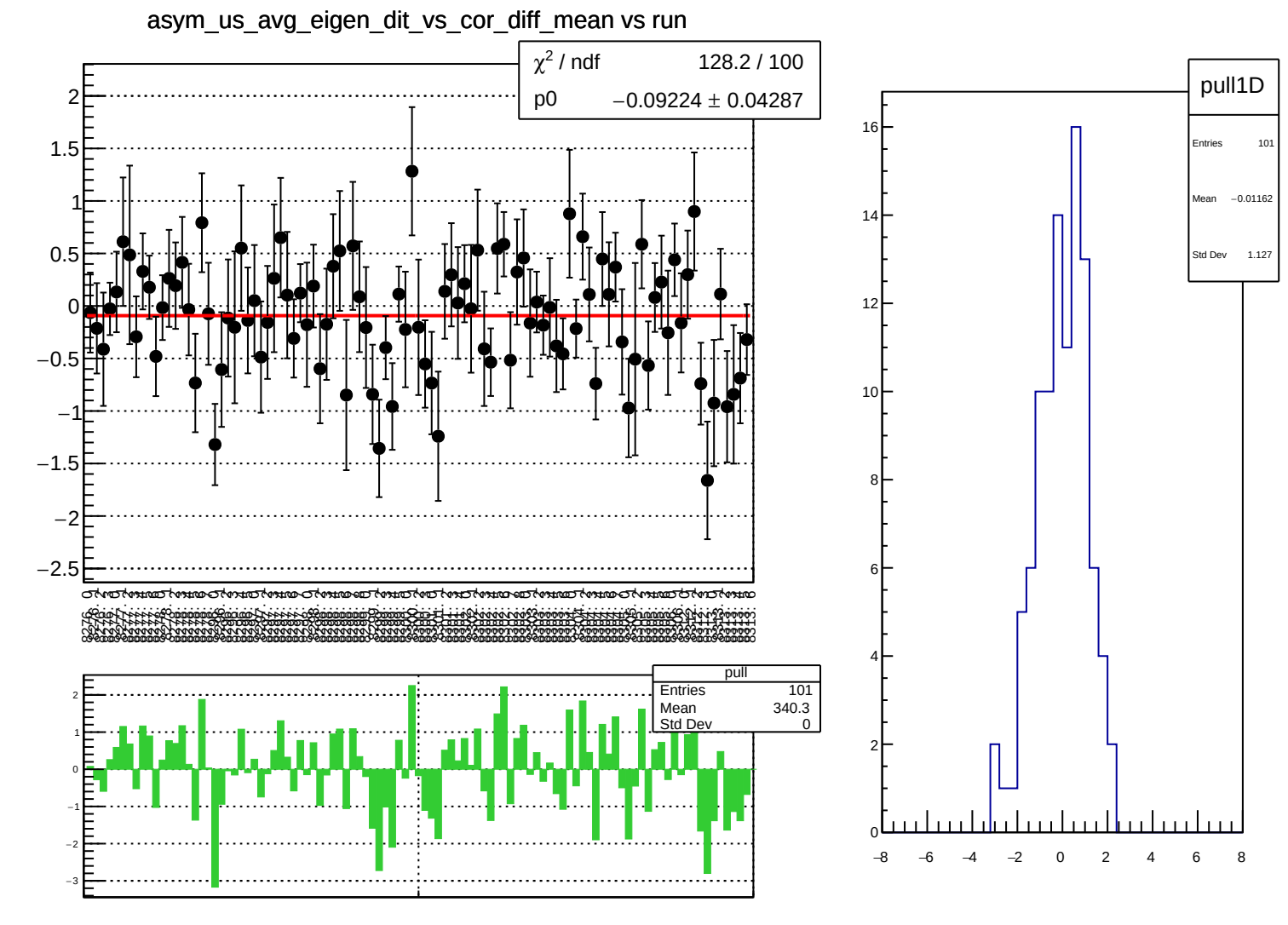

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 117.1 / 100
p0 −0.06065 ± 0.05707
pull
Entries 101
Mean 25.52
Std Dev 48.79

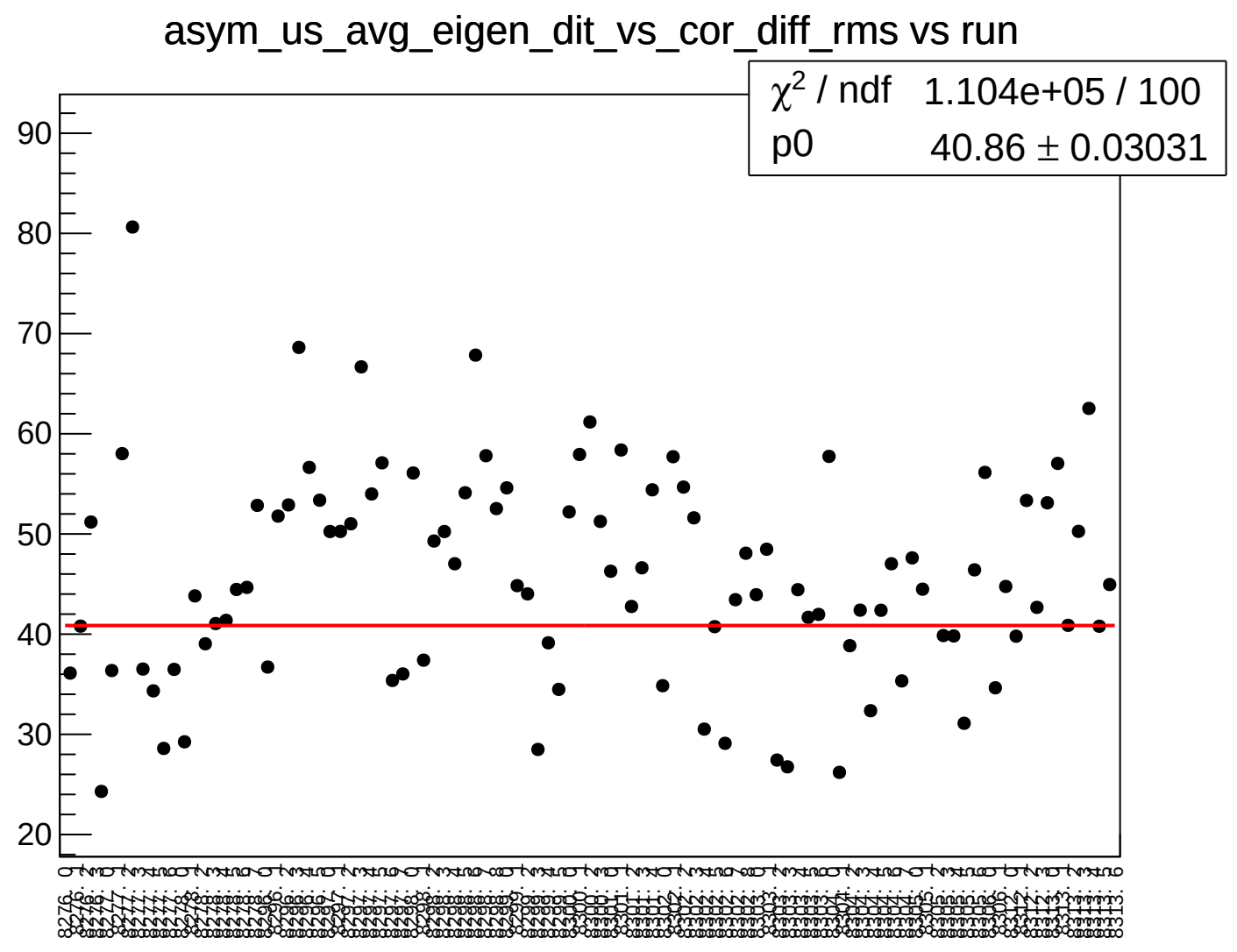

pull1D
Entries 101
Mean −0.02025
Std Dev 1.077

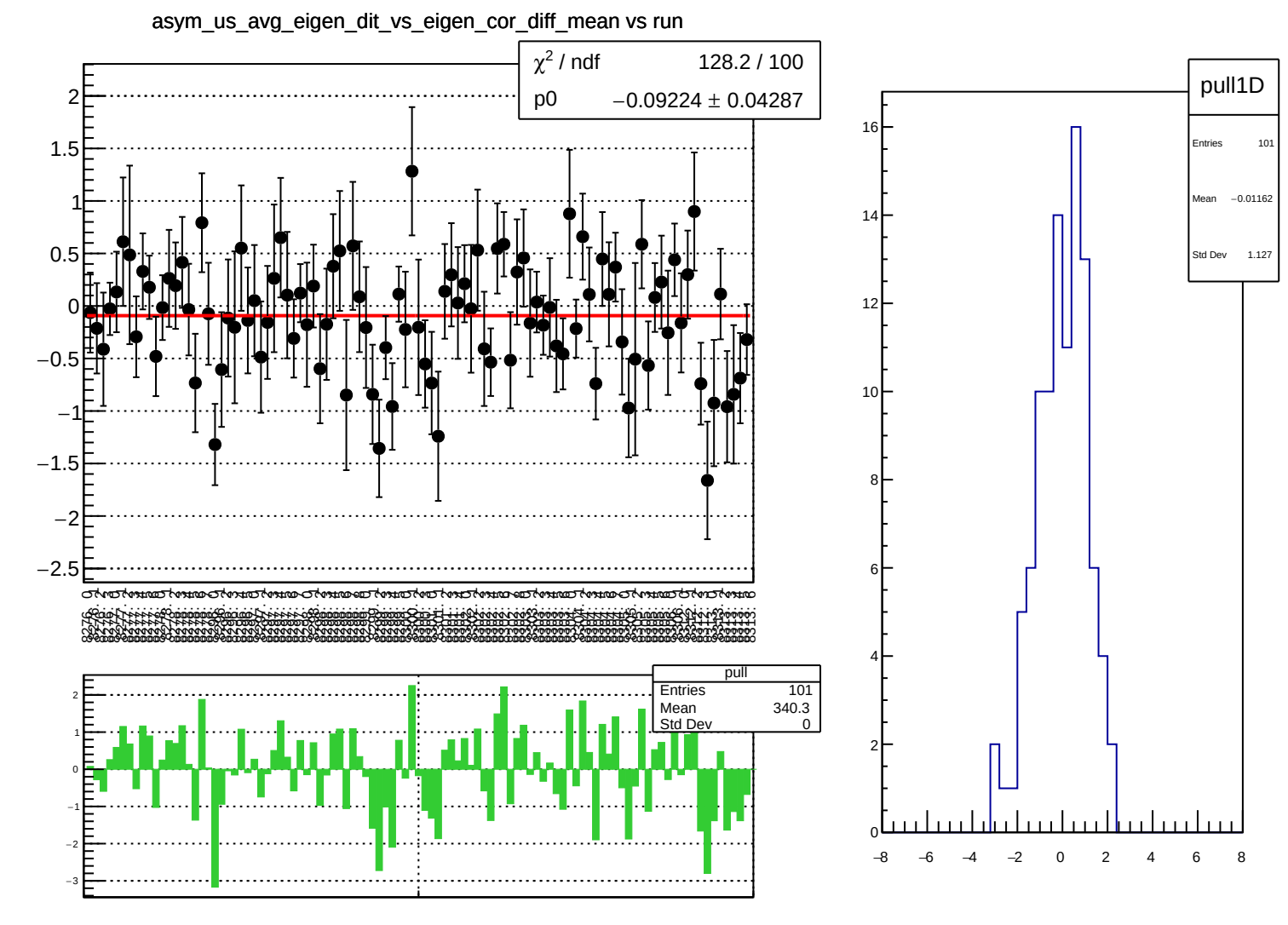

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 5.062e+04 / 100
p0 55.29 ± 0.04036
90
80
70
60
50
40

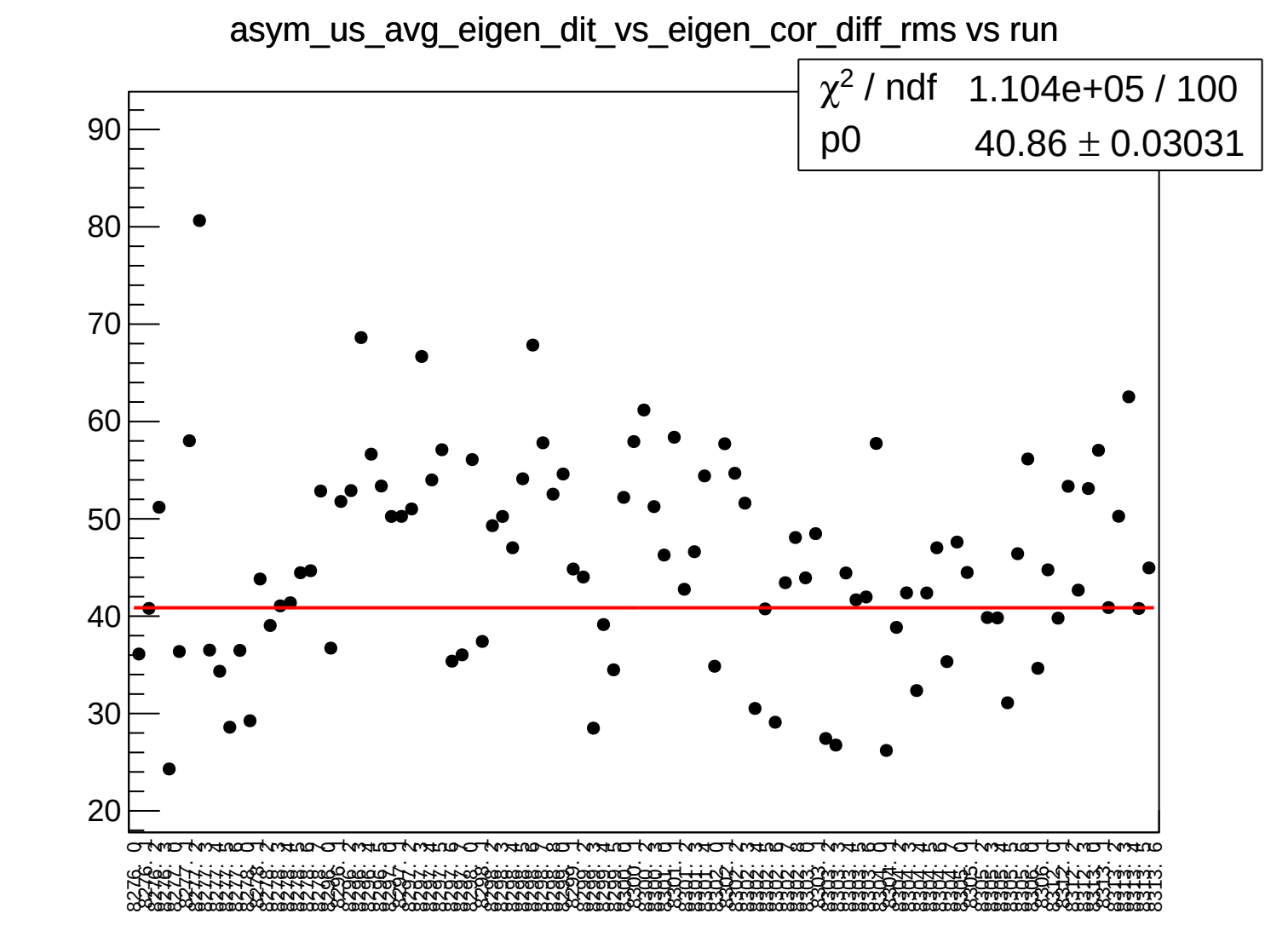

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.08 / 100
p0 −4.729e−06 ± 1.751e−06
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 101
Mean −416.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.01621
Std Dev 0.9803
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

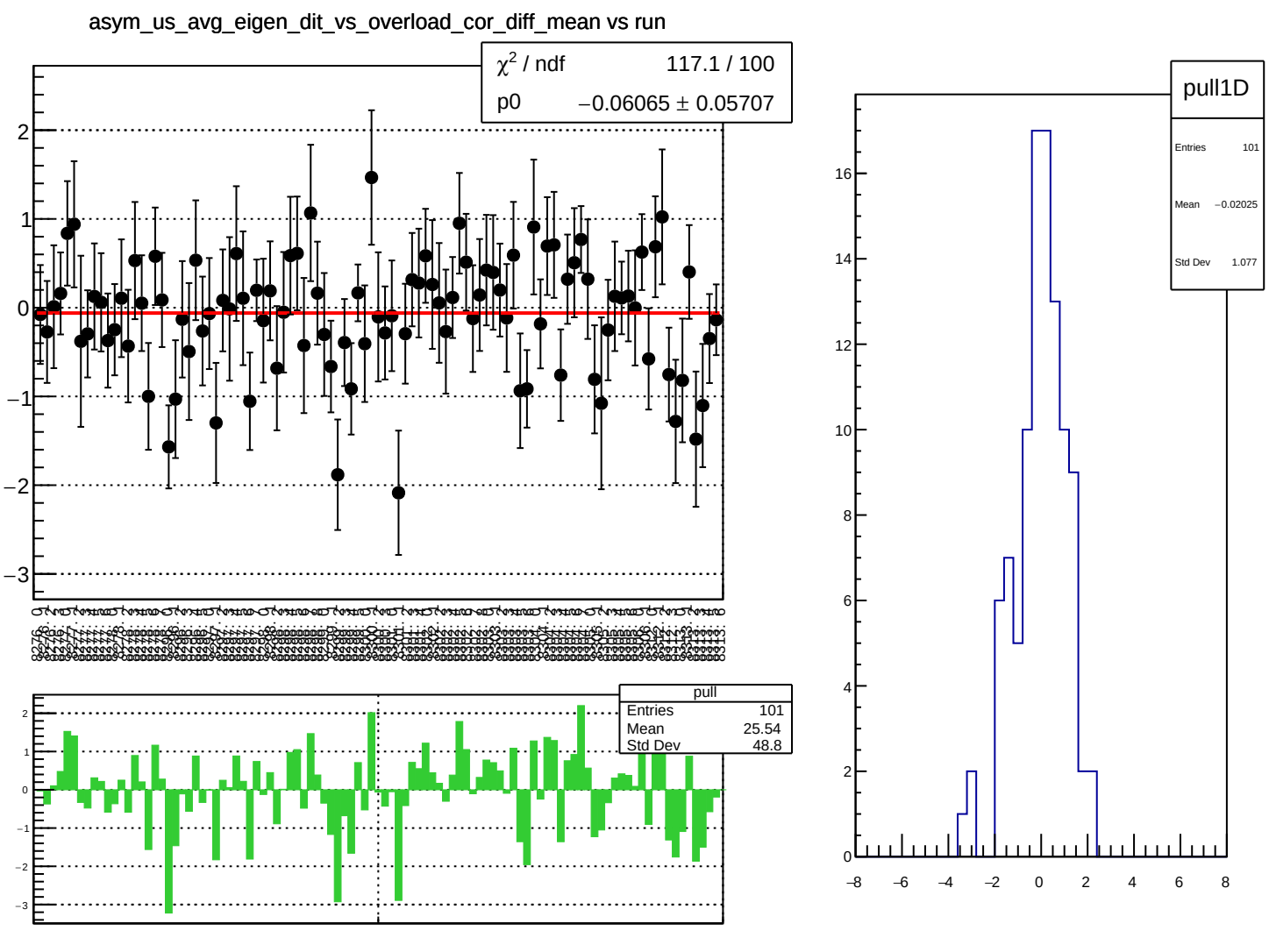

asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.542e+05 / 100
p0 0.001649 ± 1.238e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015

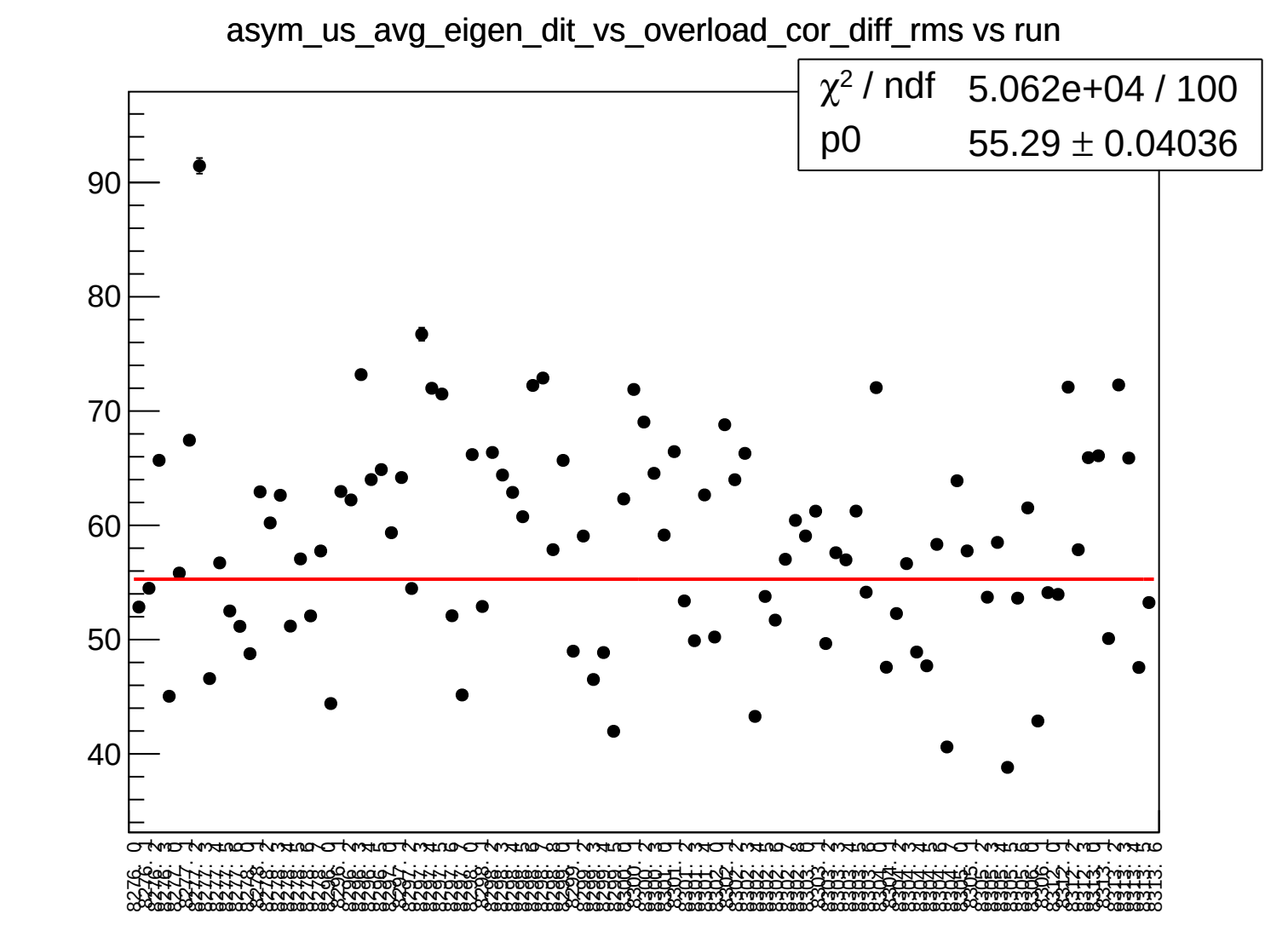

asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 128.2 / 100
p0 −0.09224 ± 0.04287
pull
Entries 101
Mean 340.3
Std Dev 0
pull1D
Entries 101
Mean −0.01162
Std Dev 1.127

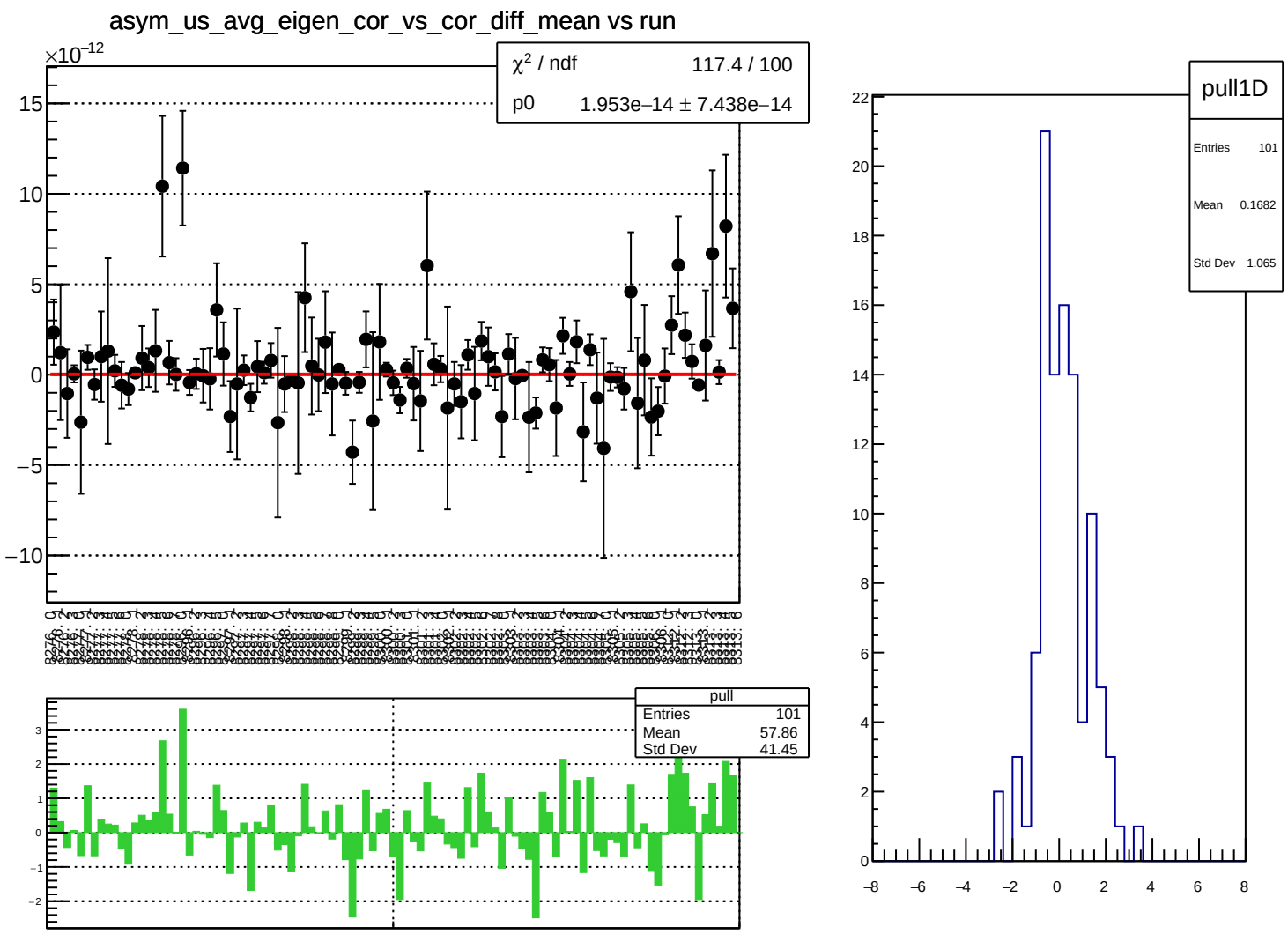

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.104e+05 / 100
p0 40.86 ± 0.03031
90
80
70
60
50
40
30
20

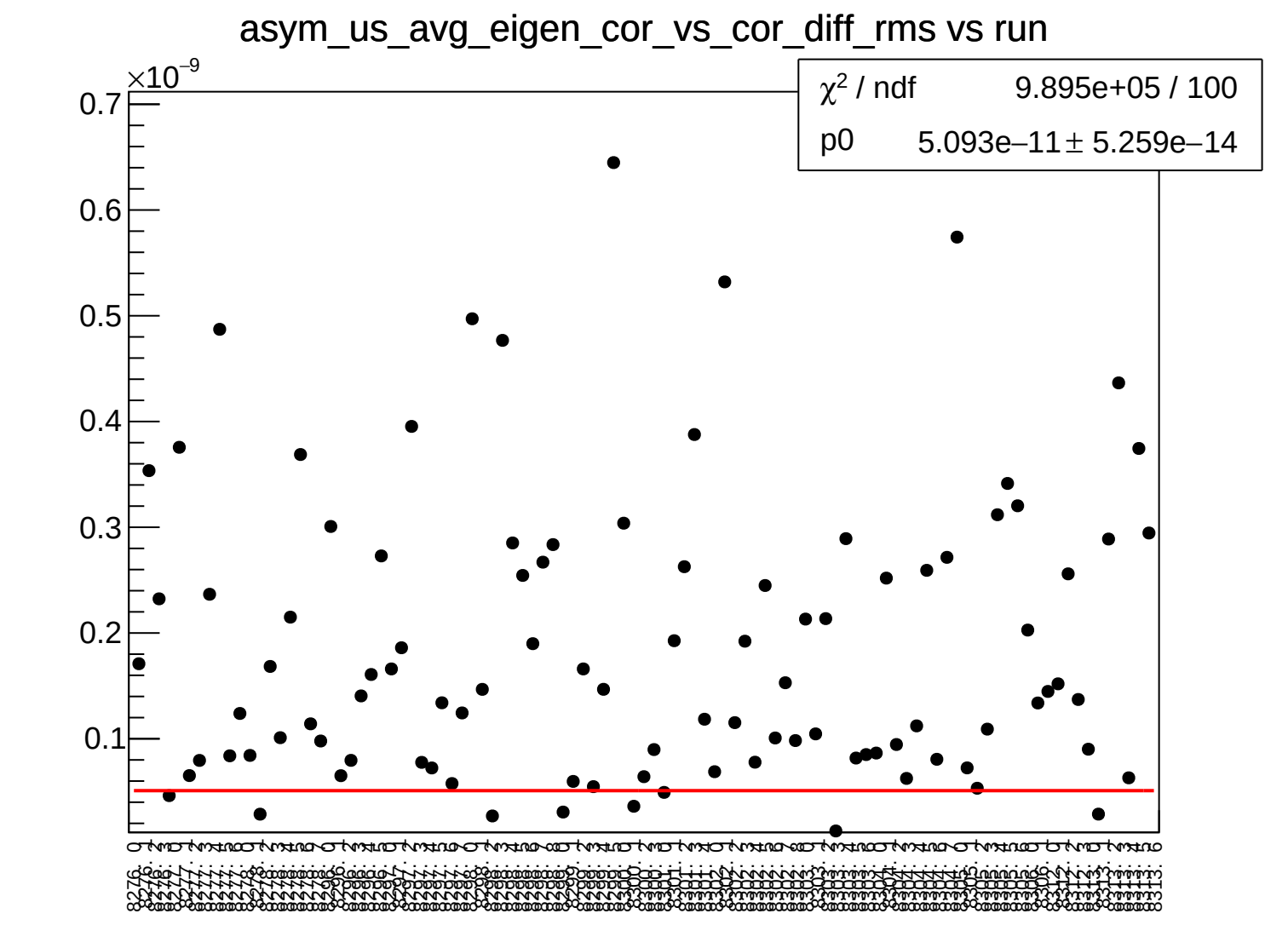

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 128.2 / 100
p0 −0.09224 ± 0.04287
pull
Entries 101
Mean 340.3
Std Dev 0
pull1D
Entries 101
Mean −0.01162
Std Dev 1.127

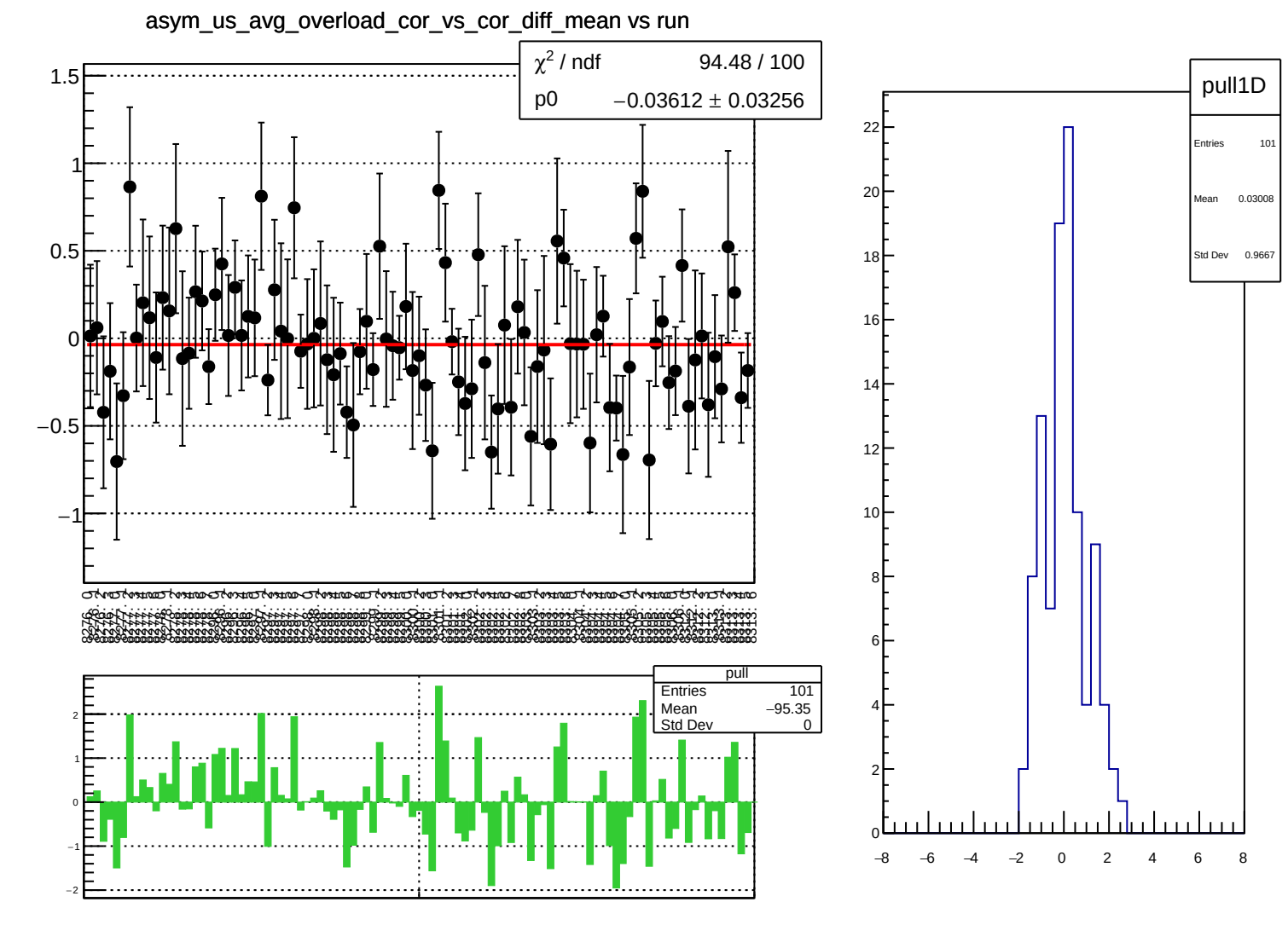

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.104e+05 / 100
p0 40.86 ± 0.03031
90
80
70
60
50
40
30
20

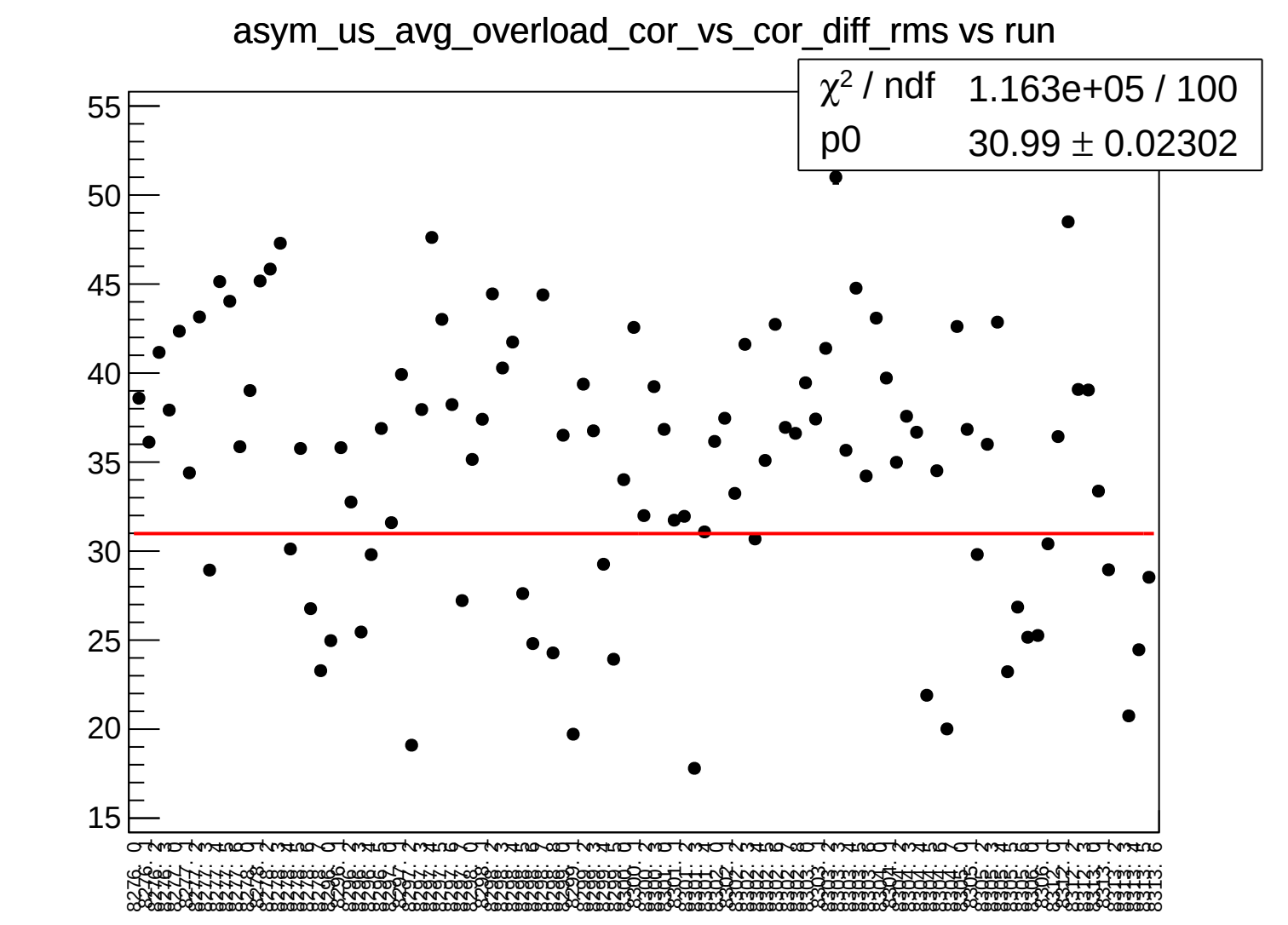

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 117.1 / 100
p0 −0.06065 ± 0.05707
pull
Entries 101
Mean 25.54
Std Dev 48.8
pull1D
Entries 101
Mean −0.02025
Std Dev 1.077

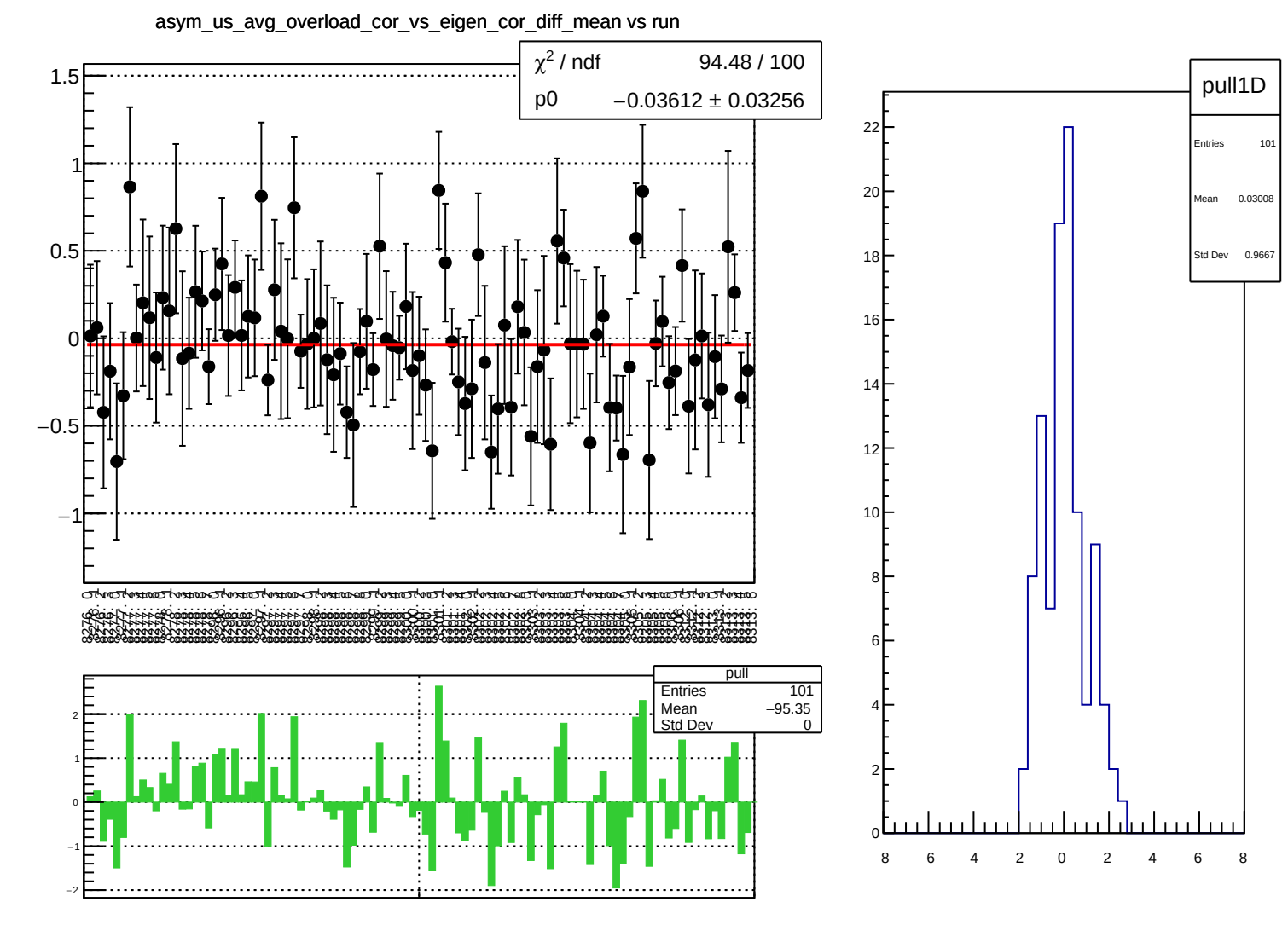

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 5.062e+04 / 100
p0 55.29 ± 0.04036
90
80
70
60
50
40

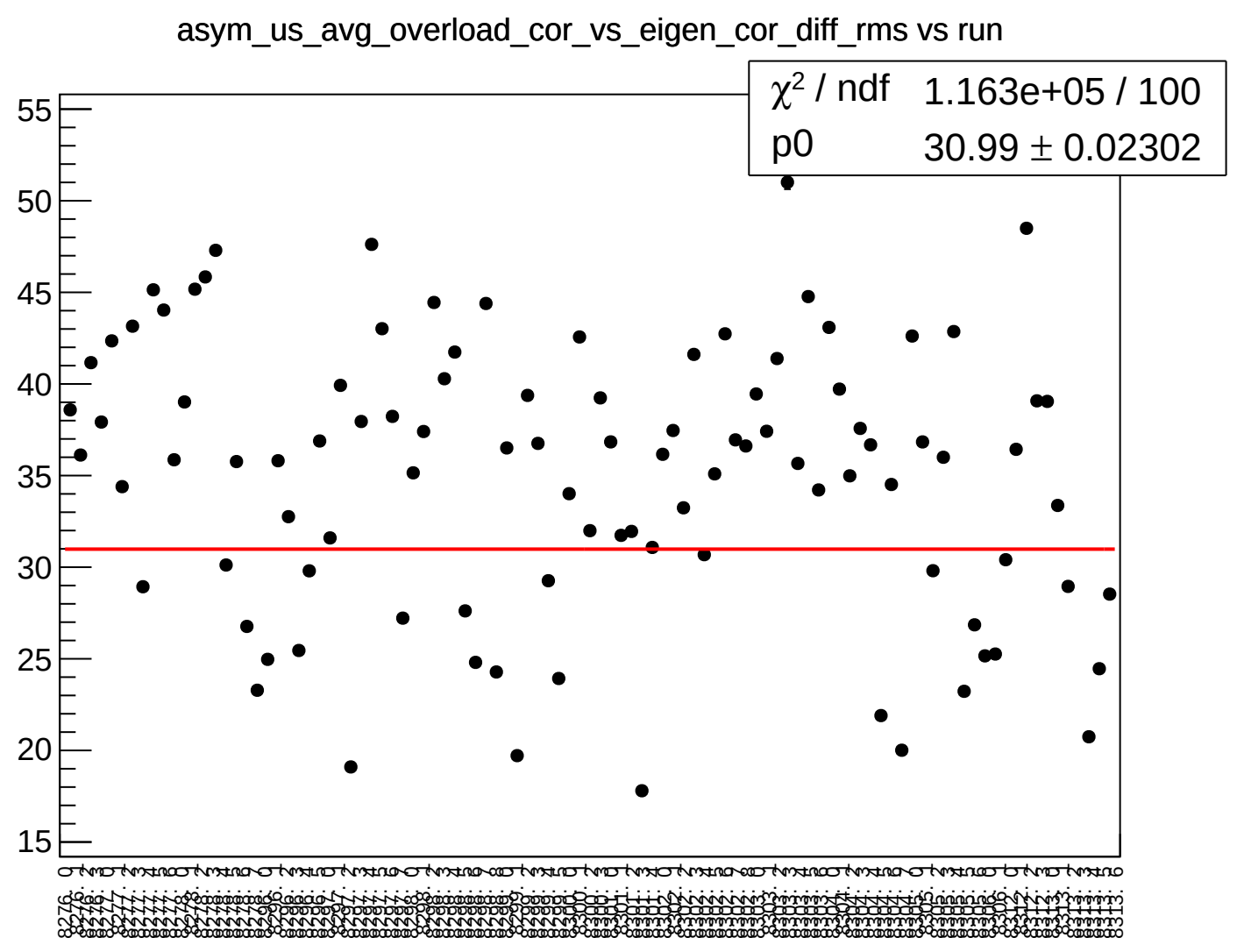

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 117.4 / 100
p0 1.953e−14 ± 7.438e−14
15
10
5
0
−5
−10
pull
Entries 101
Mean 57.86
Std Dev 41.45
3
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.1682
Std Dev 1.065
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

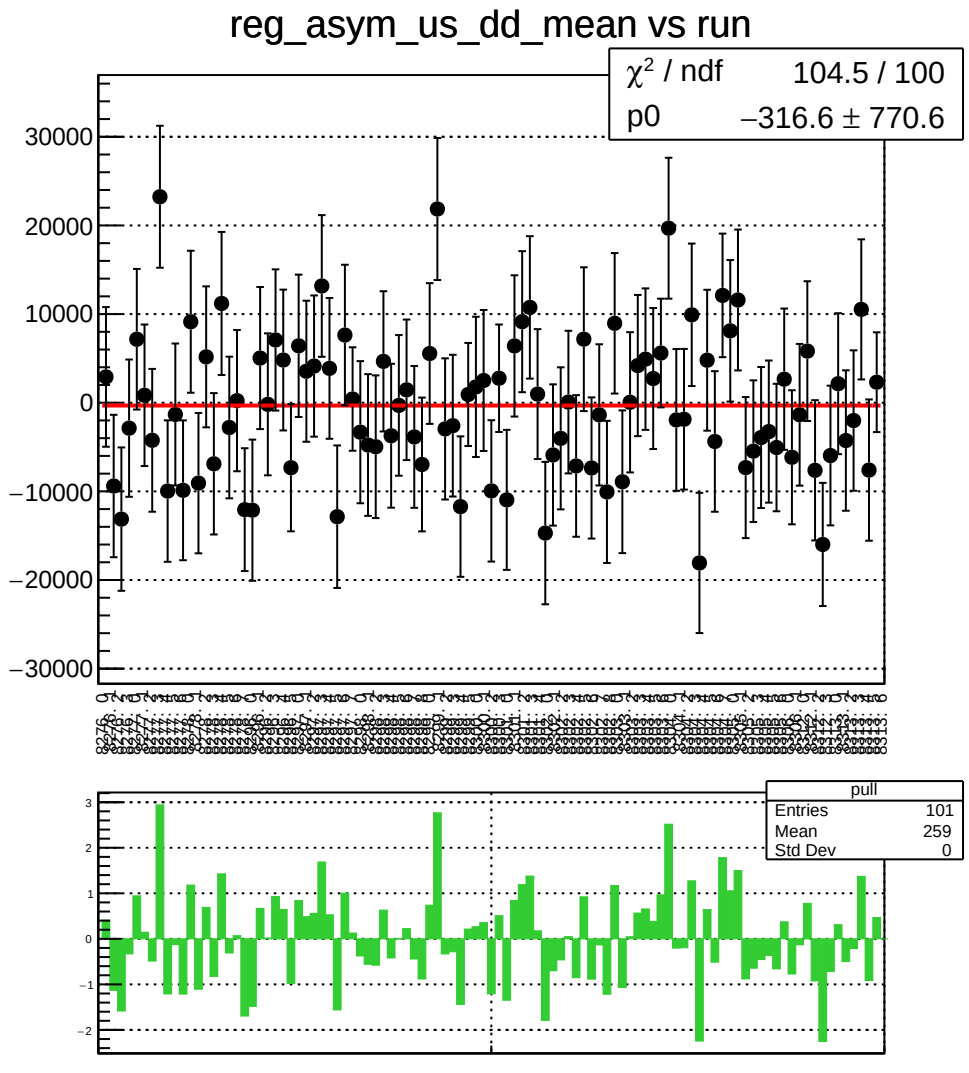

asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.7
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 9.895e+05 / 100
p0 5.093e−11 ± 5.259e−14

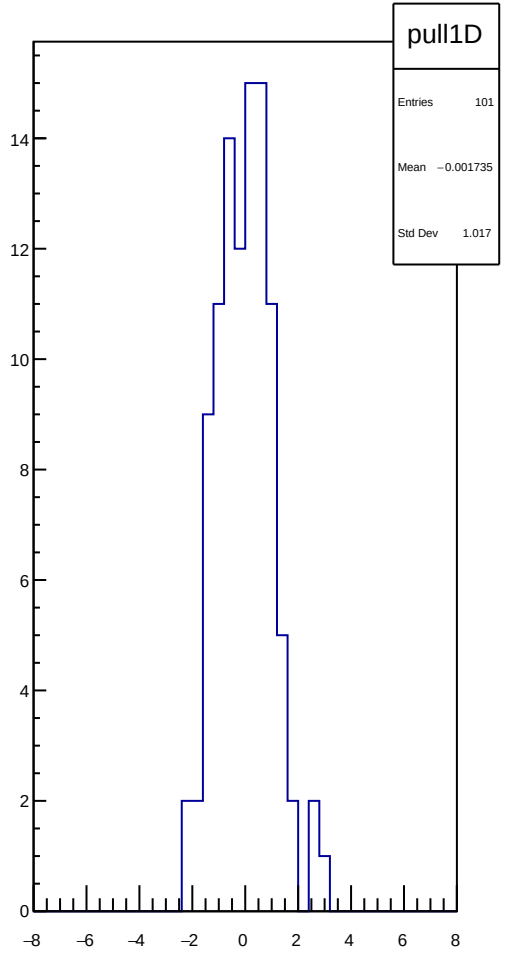

asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 94.48 / 100
p0 −0.03612 ± 0.03256
pull
Entries 101
Mean −95.35
Std Dev 0
pull1D
Entries 101
Mean 0.03008
Std Dev 0.9667

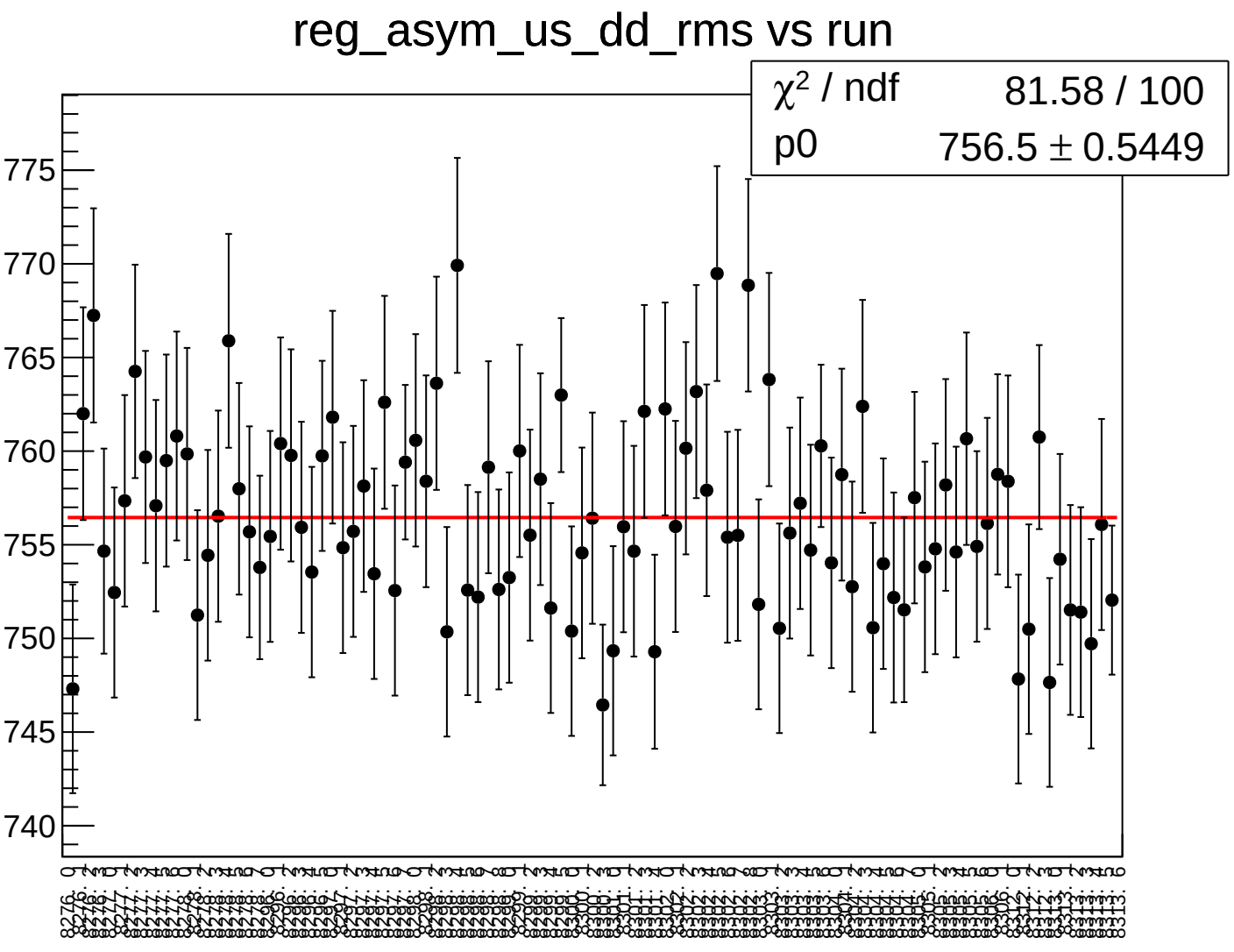

asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.163e+05 / 100
p0 30.99 ± 0.02302
55
50
45
40
35
30
25
20
15

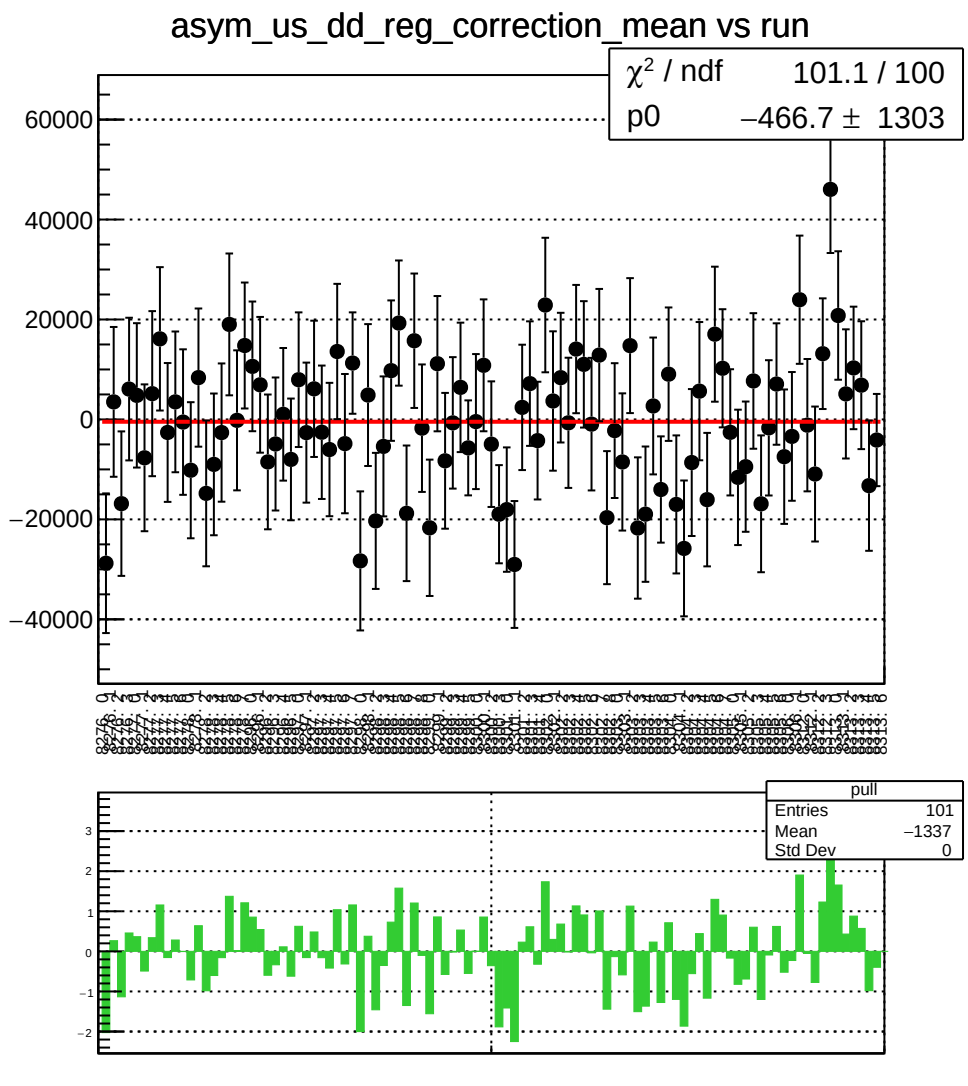

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.48 / 100
p0 −0.03612 ± 0.03256
pull
Entries 101
Mean −95.35
Std Dev 0
pull1D
Entries 101
Mean 0.03008
Std Dev 0.9667

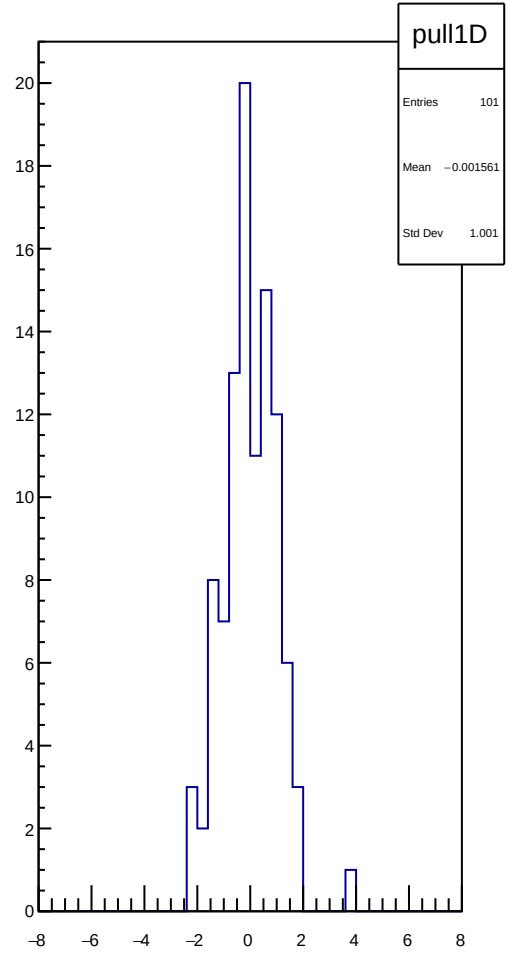

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.163e+05 / 100
p0 30.99 ± 0.02302
55
50
45
40
35
30
25
20
15

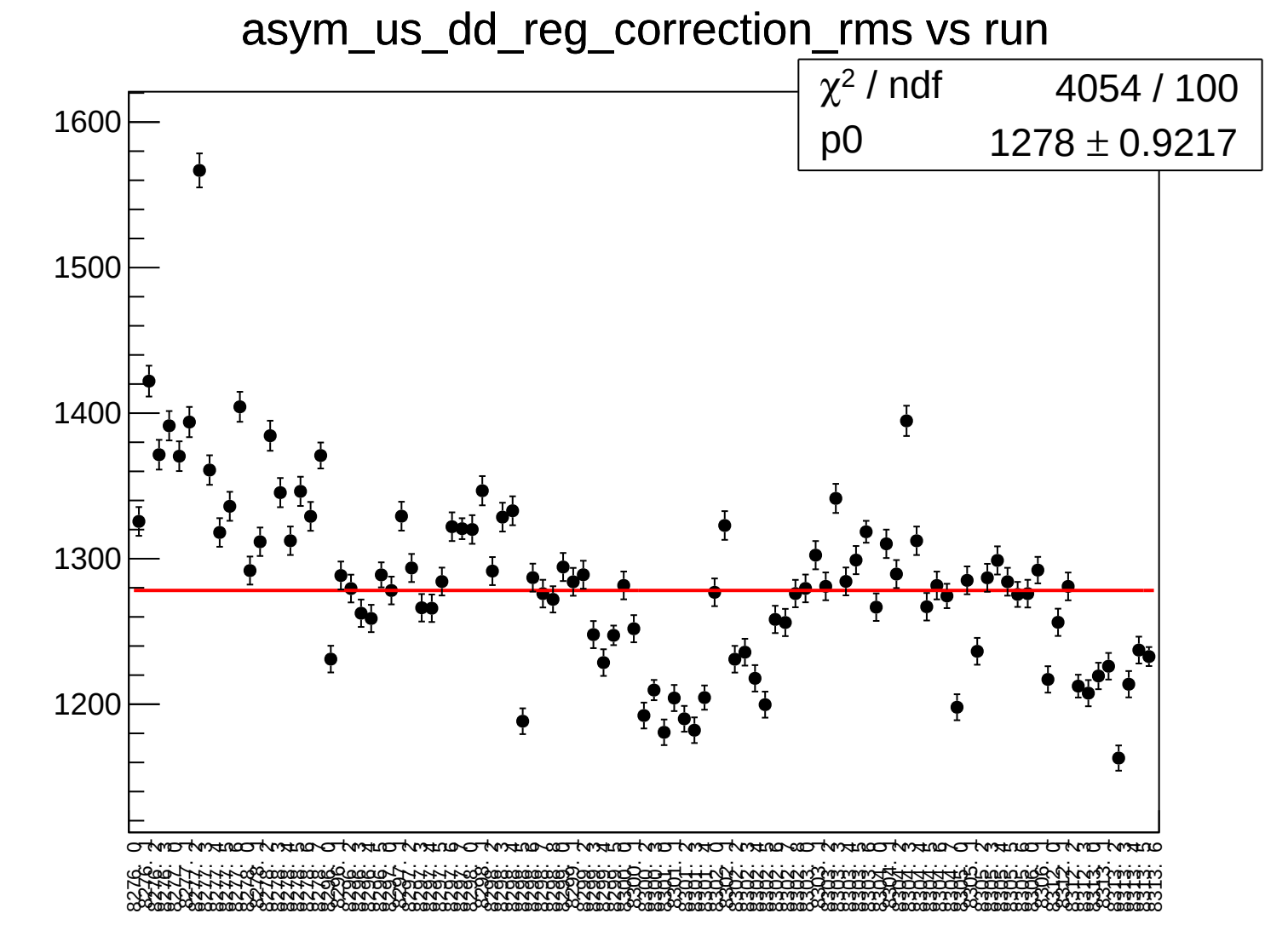

reg_asym_us_dd_mean vs run
χ² / ndf 104.5 / 100
p0 −316.6 ± 770.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 101
Mean 259
Std Dev 0
3
2
1
0
−1
−2

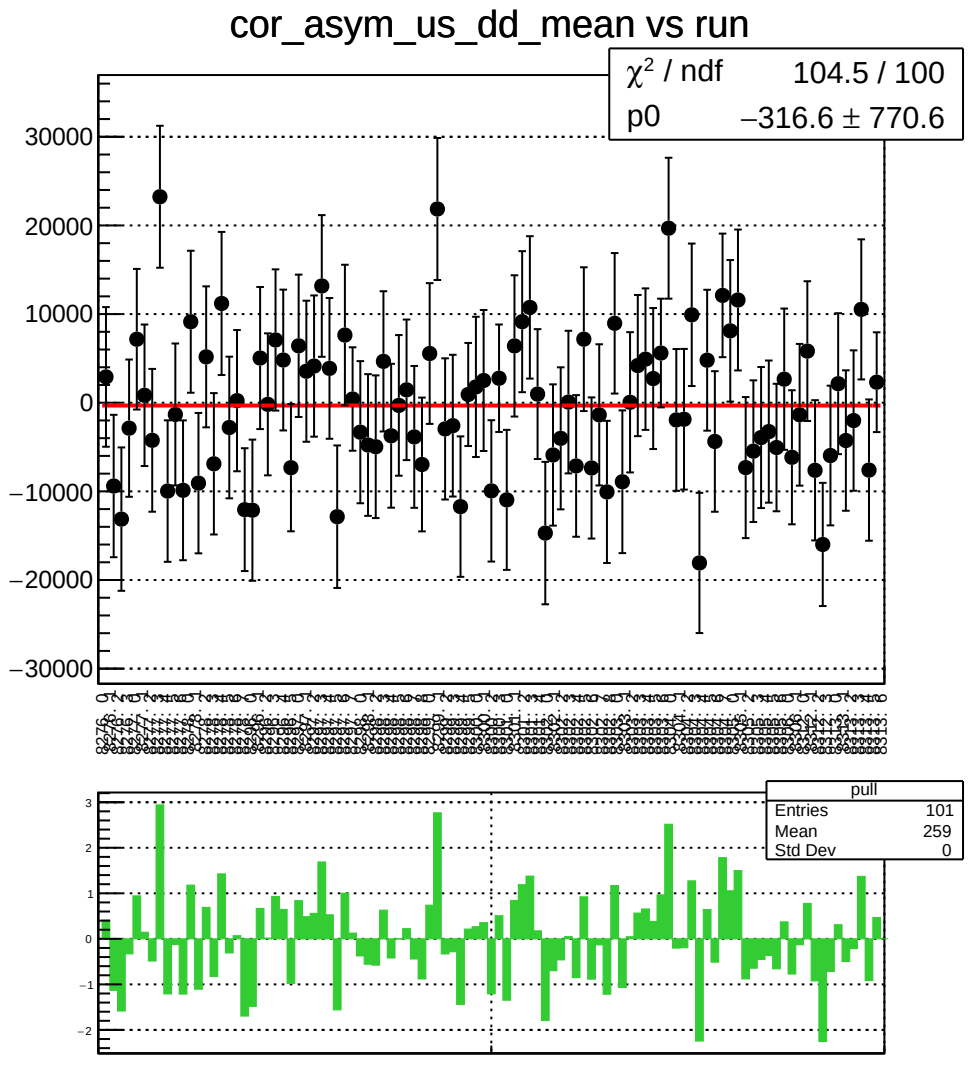

pull1D
Entries 101
Mean −0.001735
Std Dev 1.017
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

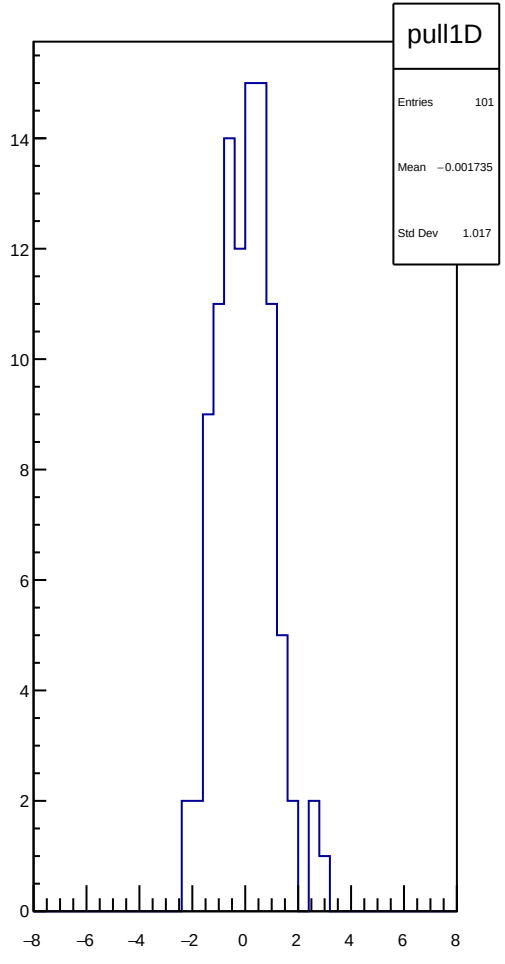

reg_asym_us_dd_rms vs run
χ² / ndf 81.58 / 100
p0 756.5 ± 0.5449
775
770
765
760
755
750
745
740

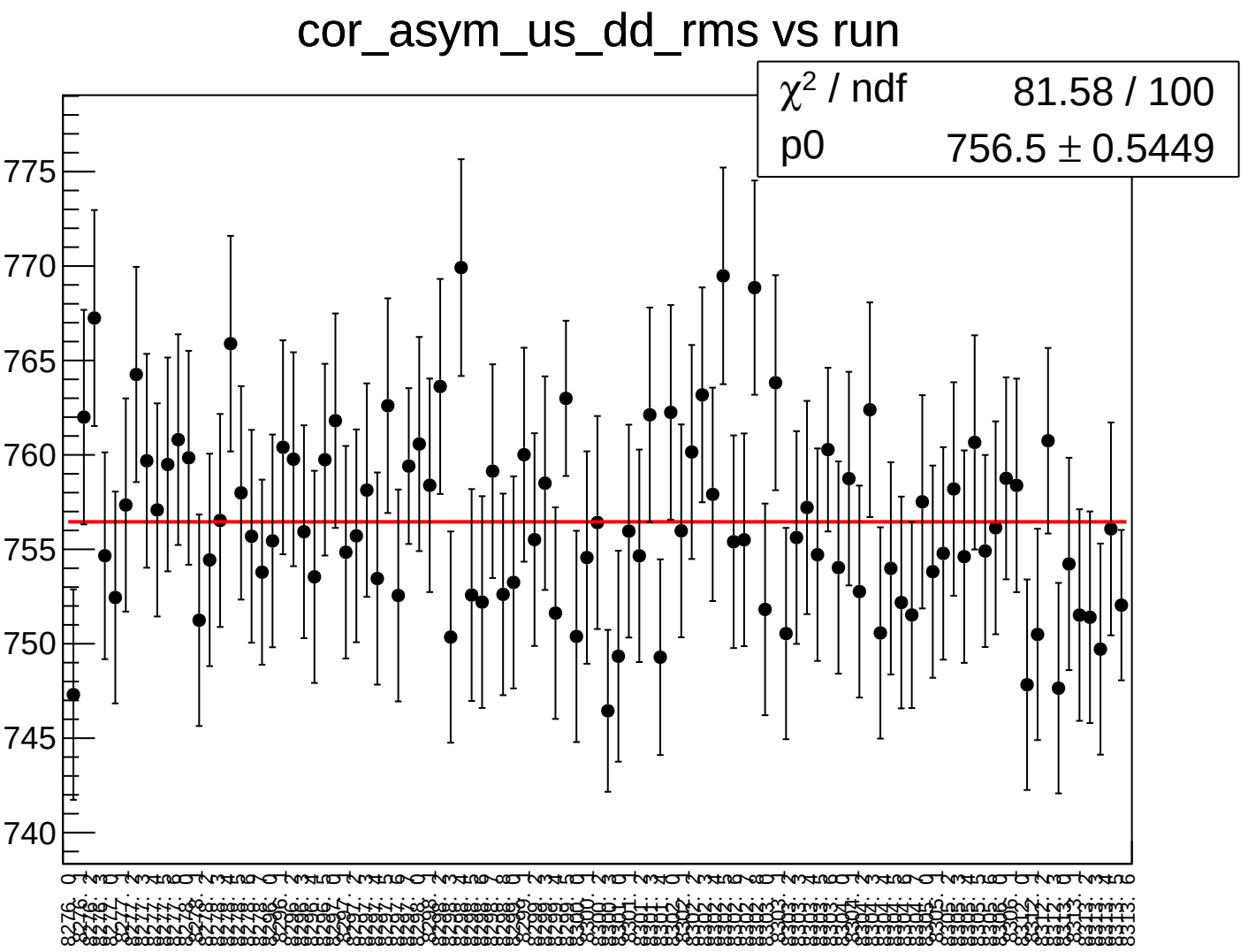

asym_us_dd_reg_correction_mean vs run
χ² / ndf 101.1 / 100
p0 −466.7 ± 1303
60000
40000
20000
0
−20000
−40000
pull
Entries 101
Mean −1337
Std Dev 0
3
2
1
0
−1
−2

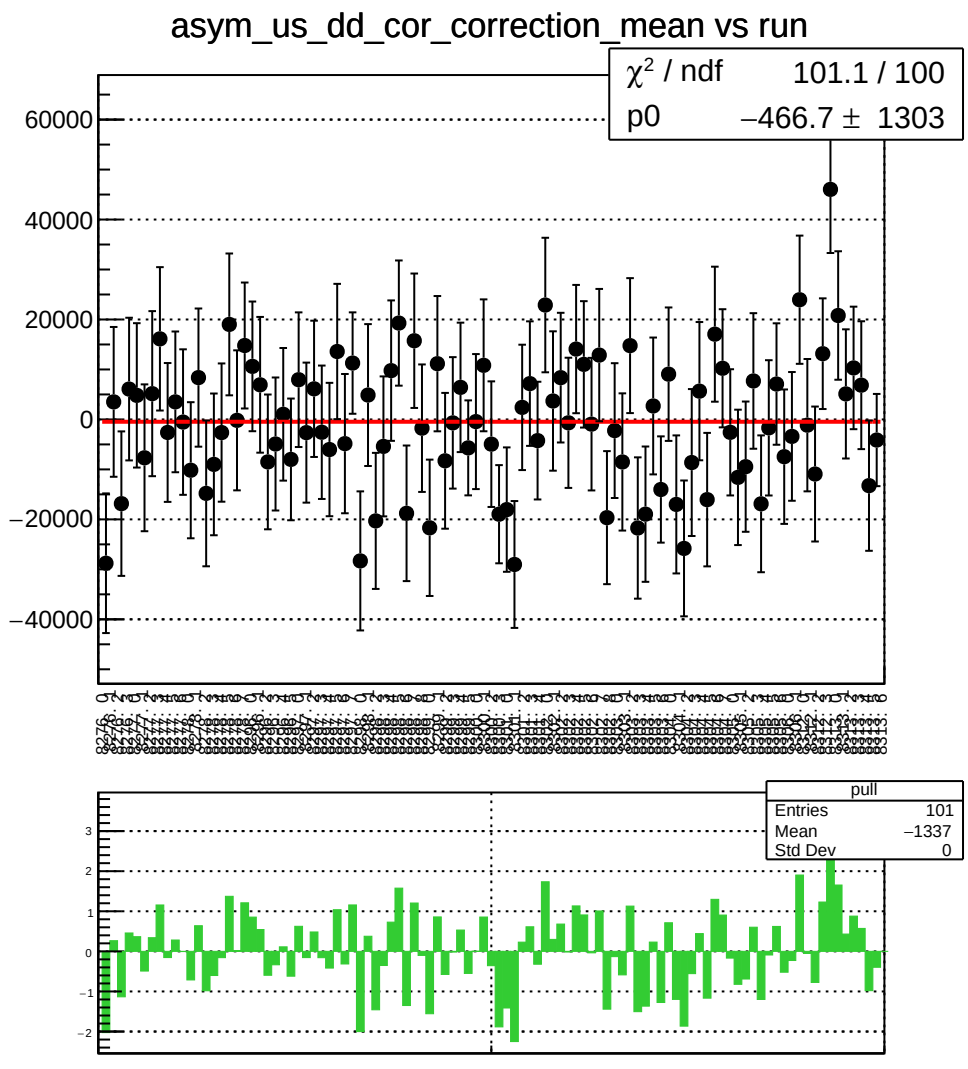

pull1D
Entries 101
Mean −0.001561
Std Dev 1.001
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

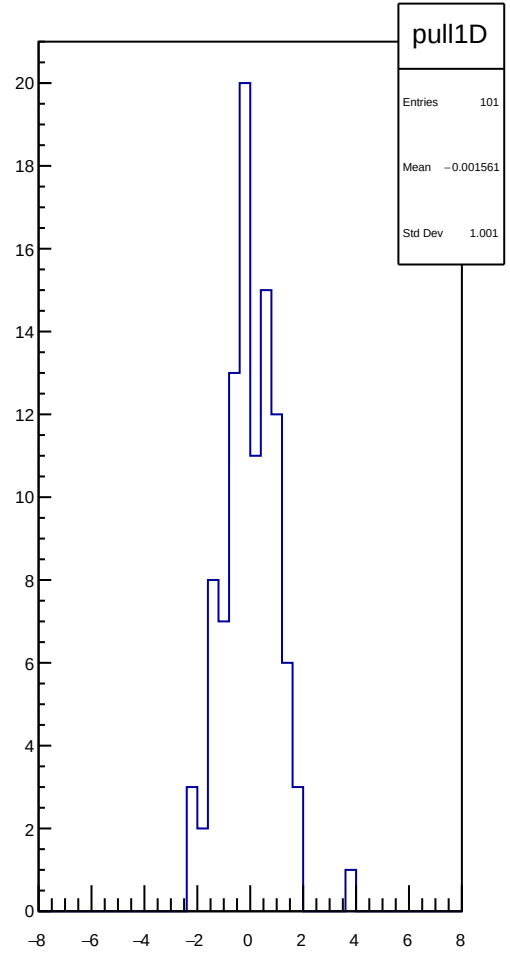

asym_us_dd_reg_correction_rms vs run
χ² / ndf 4054 / 100
p0 1278 ± 0.9217
1600
1500
1400
1300
1200

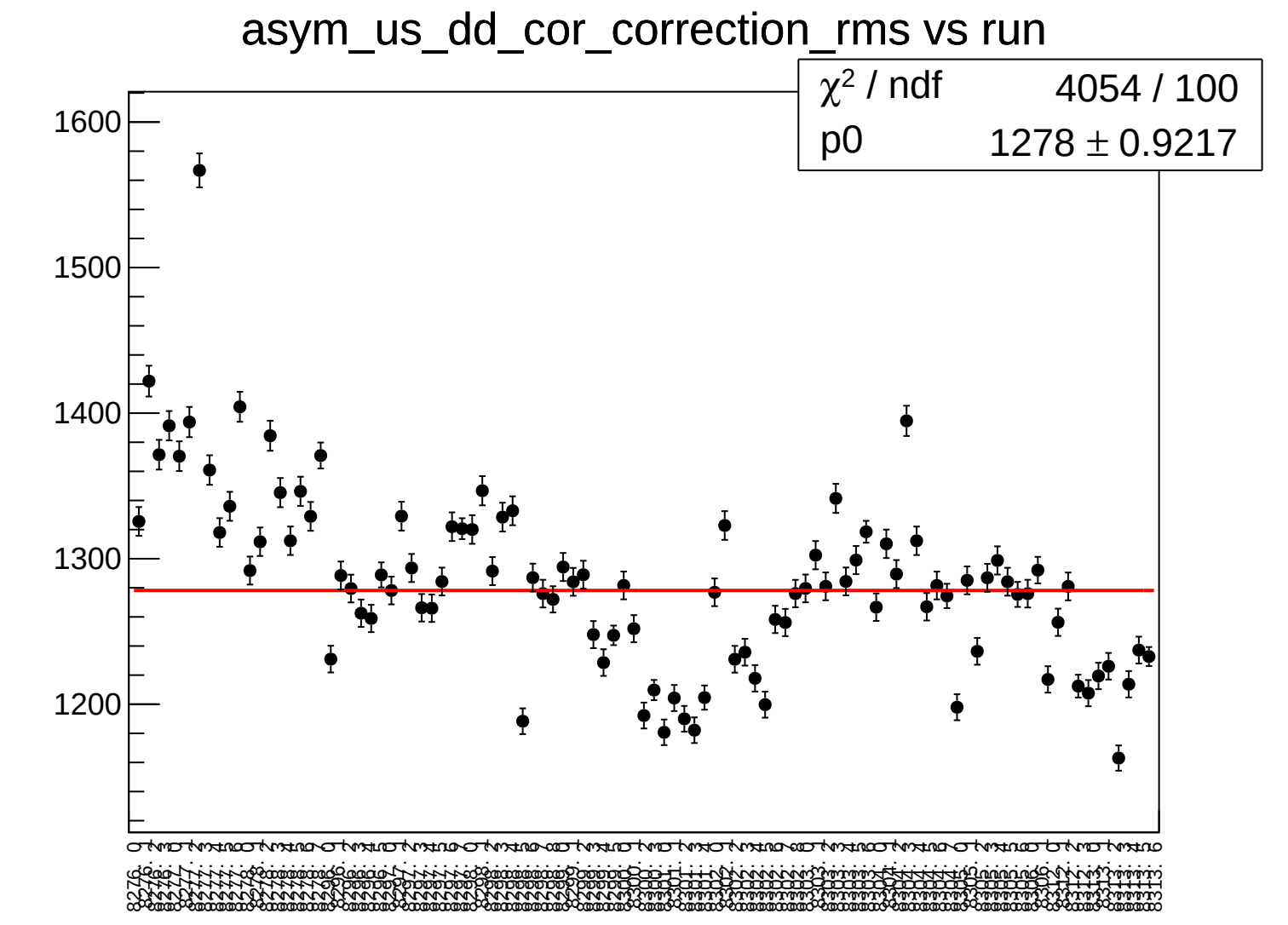

cor_asym_us_dd_mean vs run
χ² / ndf 104.5 / 100
p0 −316.6 ± 770.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 101
Mean 259
Std Dev 0
3
2
1
0
−1
−2

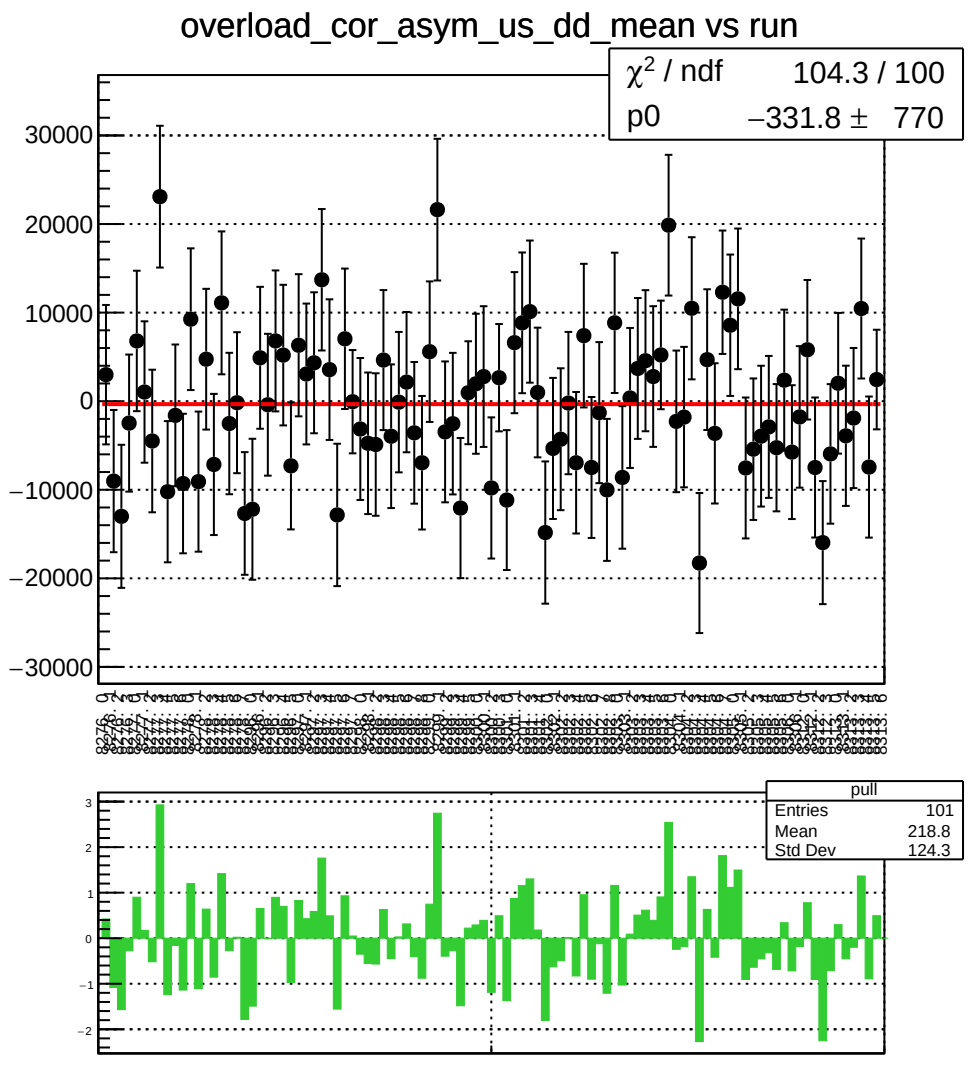

pull1D
Entries 101
Mean −0.001735
Std Dev 1.017
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

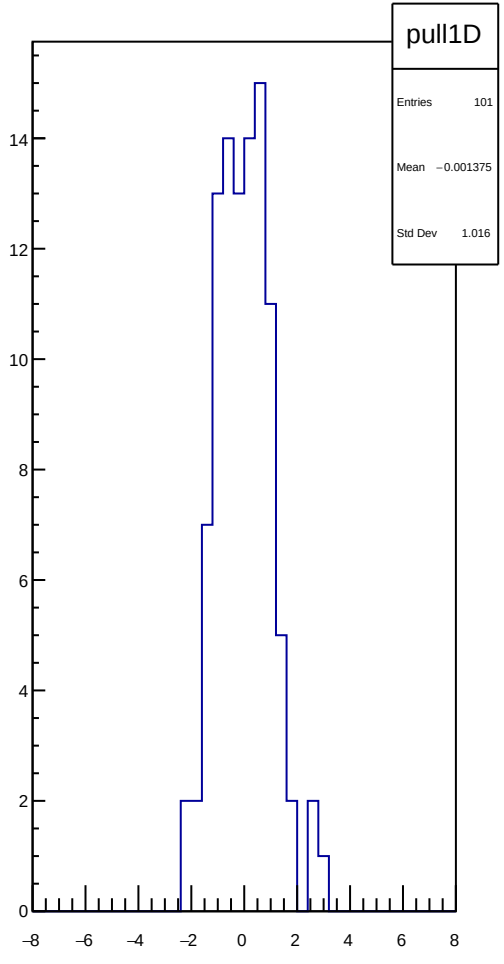

cor_asym_us_dd_rms vs run
χ² / ndf 81.58 / 100
p0 756.5 ± 0.5449
775
770
765
760
755
750
745
740

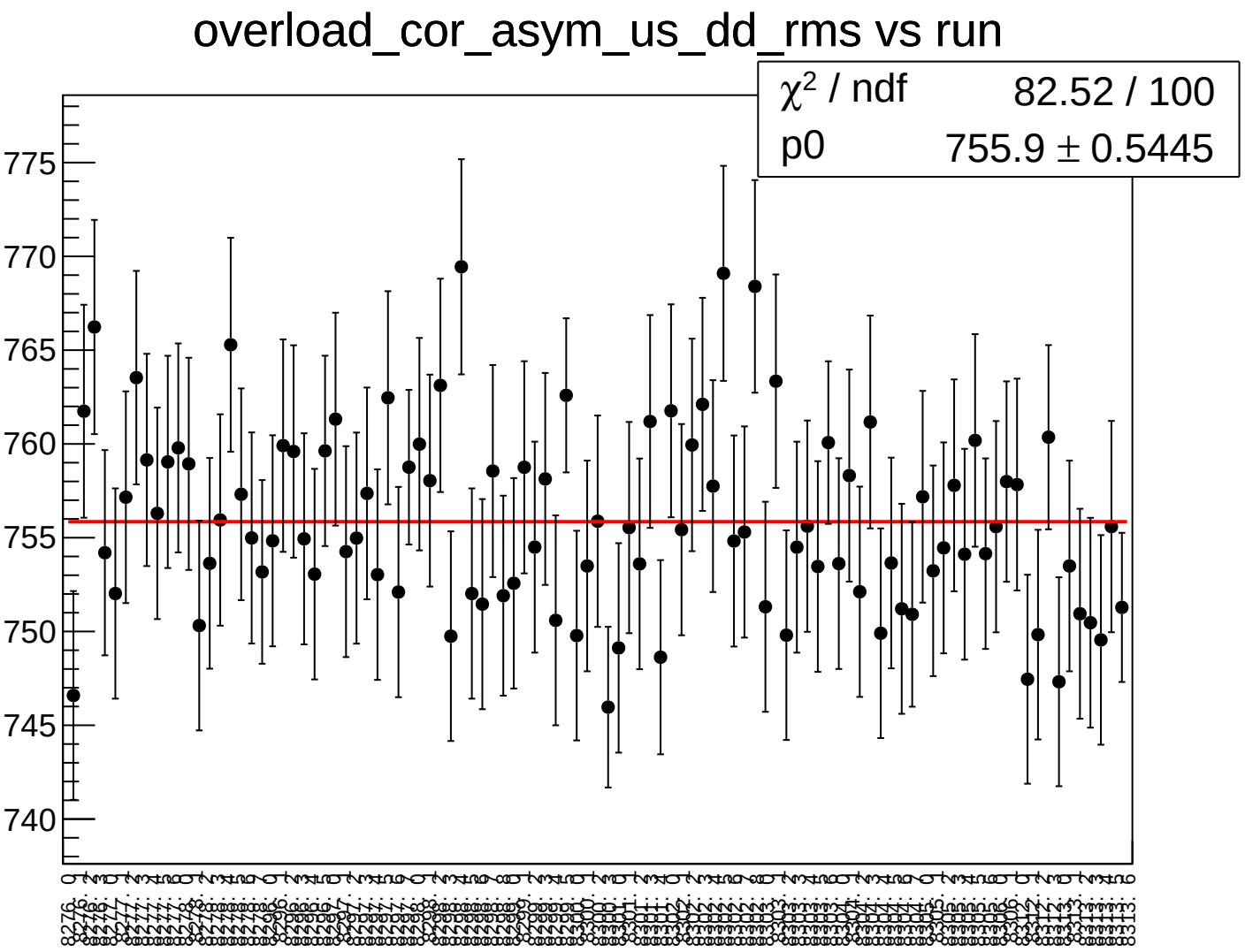

asym_us_dd_cor_correction_mean vs run
χ² / ndf 101.1 / 100
p0 −466.7 ± 1303
60000
40000
20000
0
−20000
−40000
pull
Entries 101
Mean −1337
Std Dev 0
3
2
1
0
−1
−2

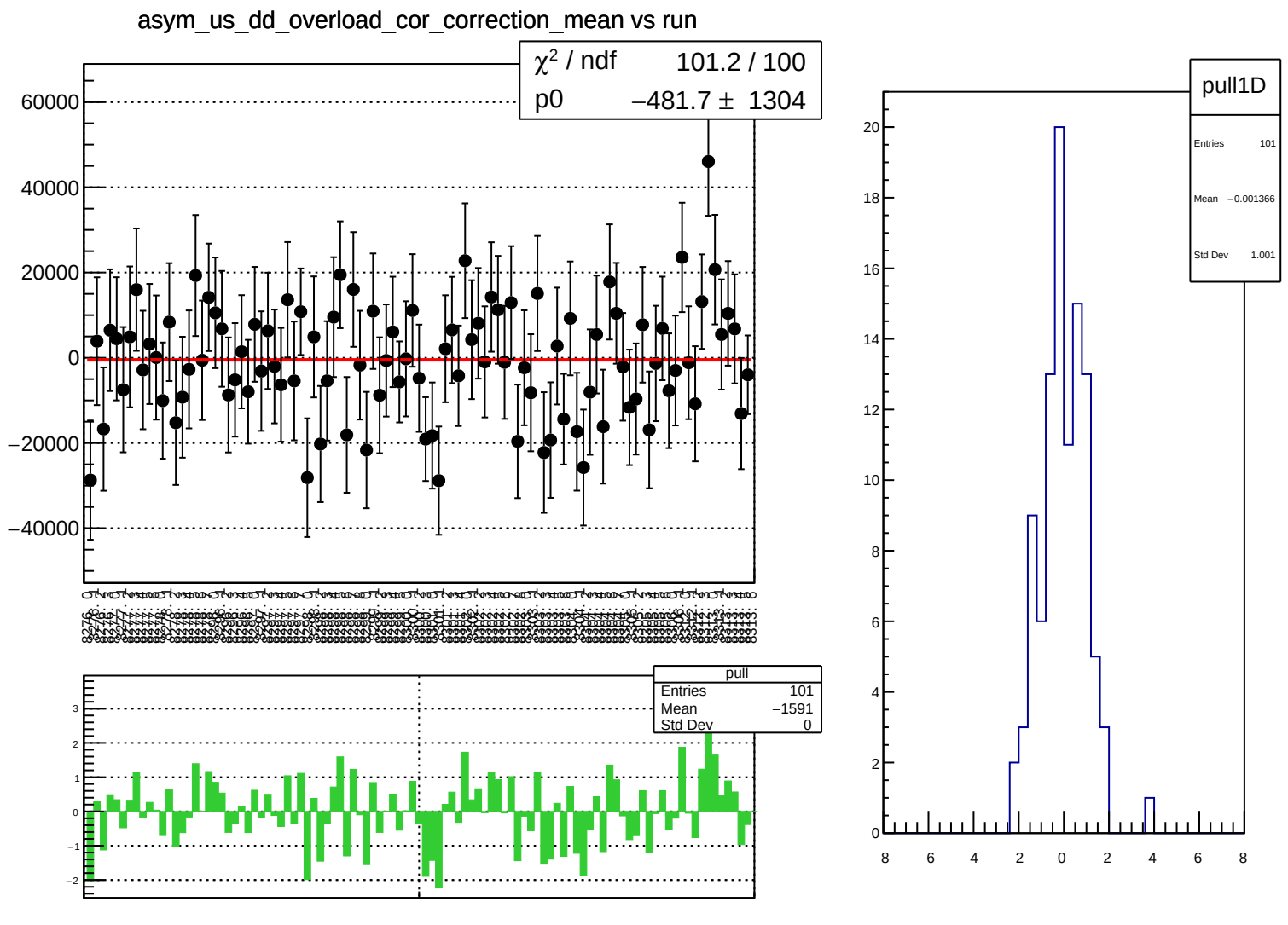

pull1D
Entries 101
Mean −0.001561
Std Dev 1.001
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

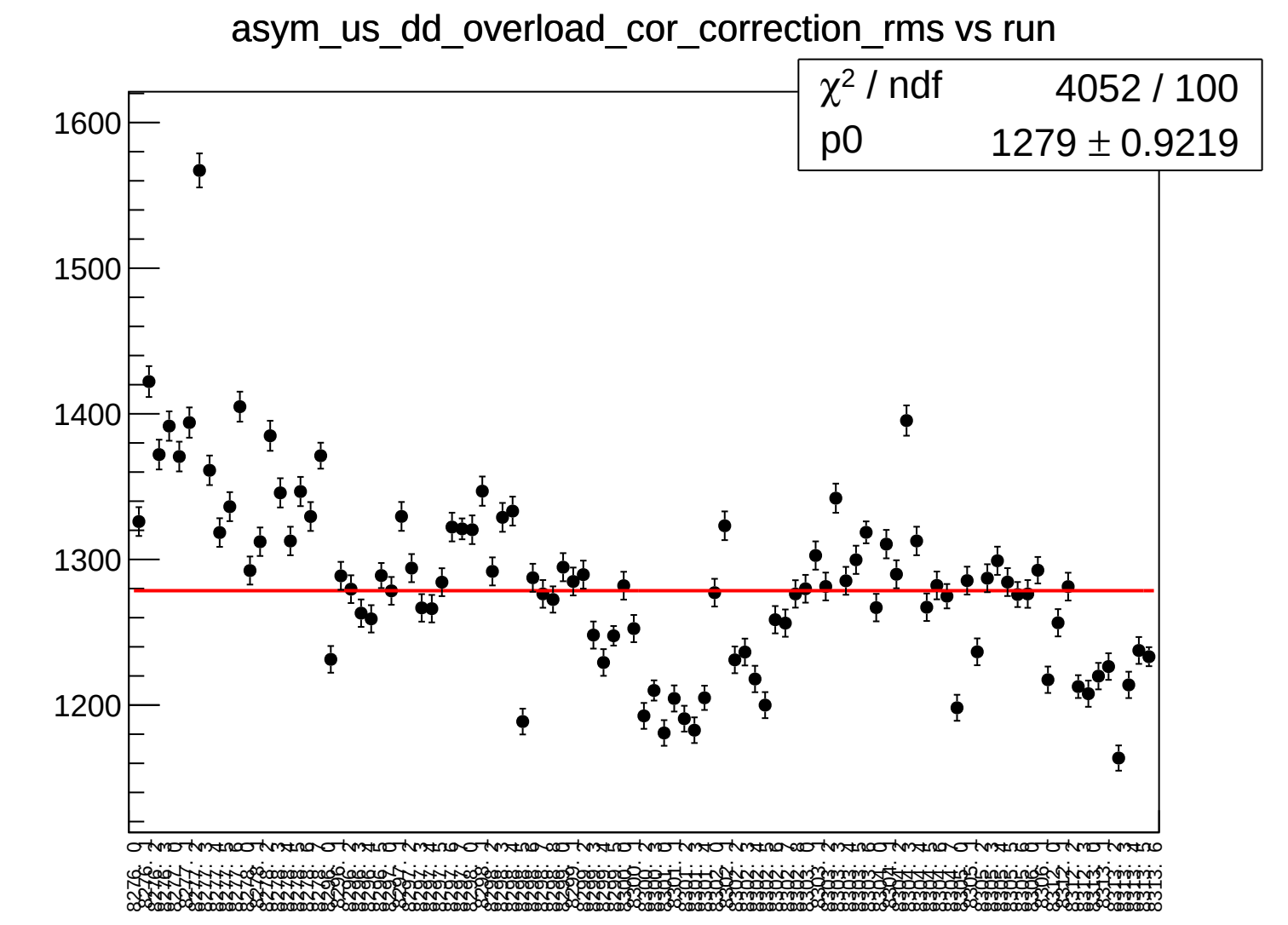

asym_us_dd_cor_correction_rms vs run
χ² / ndf 4054 / 100
p0 1278 ± 0.9217
1600
1500
1400
1300
1200

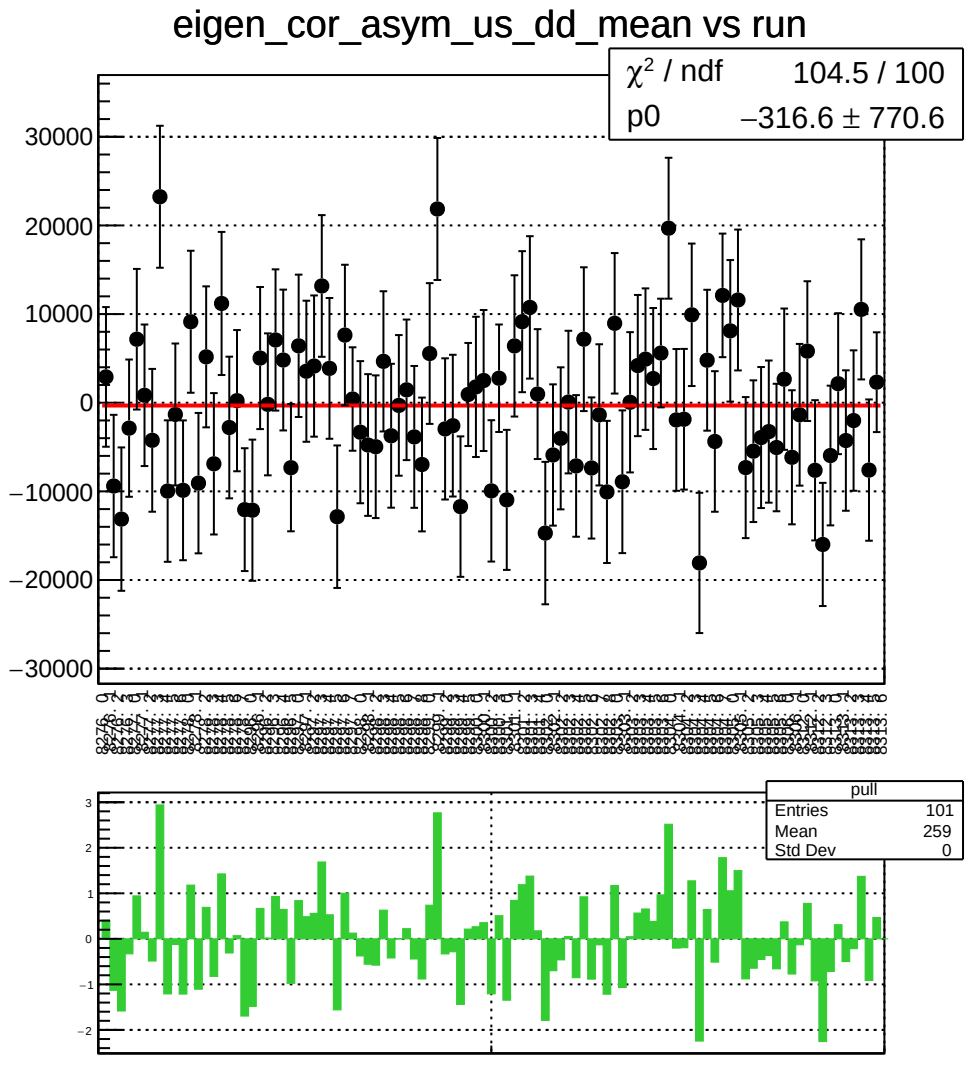

overload_cor_asym_us_dd_mean vs run
χ² / ndf 104.3 / 100
p0 −331.8 ± 770
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 101
Mean 218.8
Std Dev 124.3
3
2
1
0
−1
−2

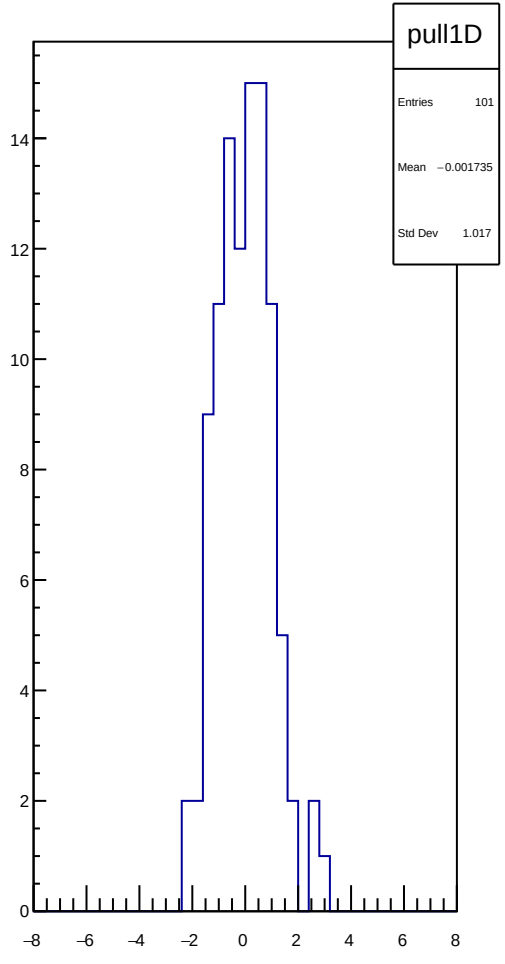

pull1D
Entries 101
Mean −0.001375
Std Dev 1.016
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

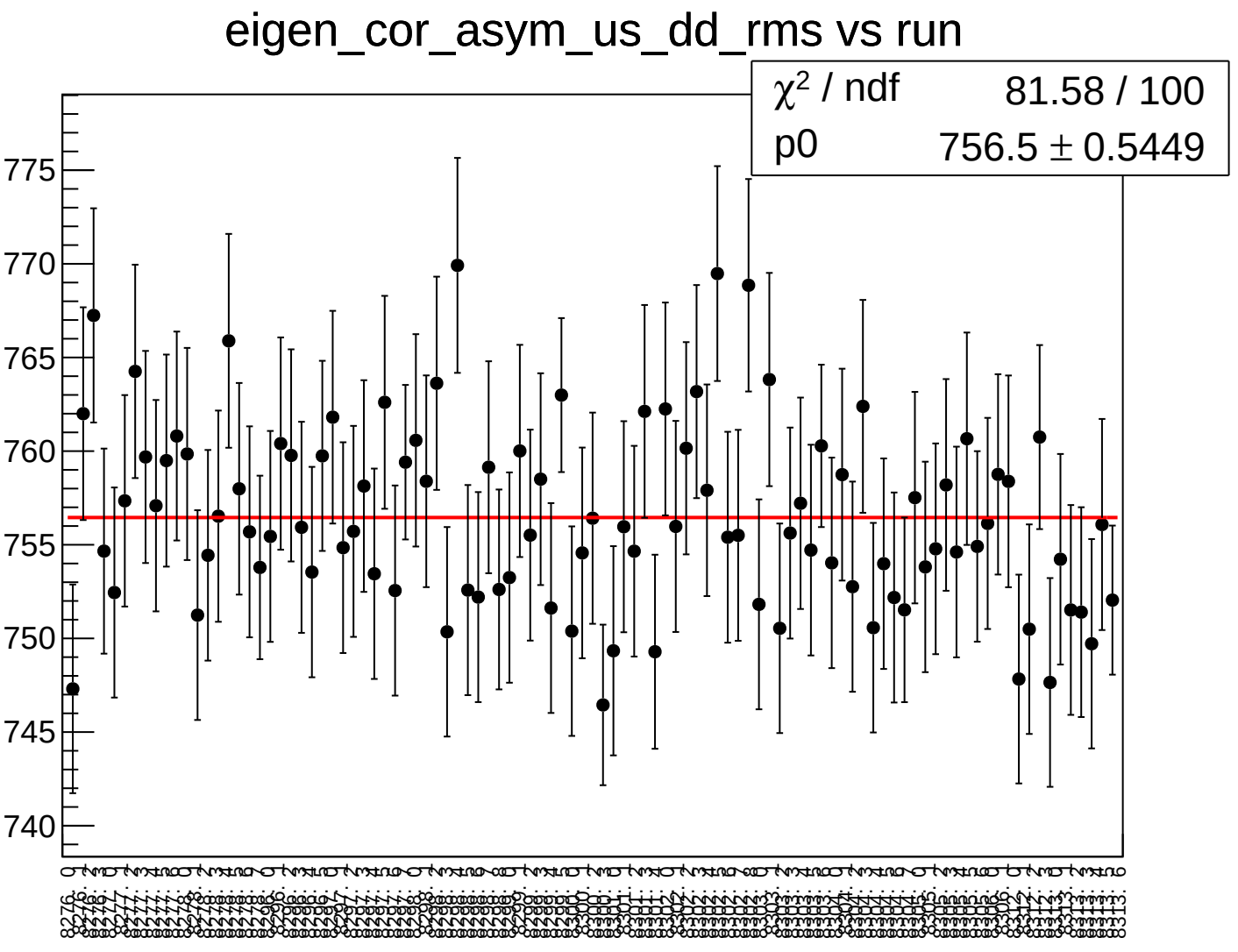

overload_cor_asym_us_dd_rms vs run
χ² / ndf 82.52 / 100
p0 755.9 ± 0.5445
775
770
765
760
755
750
745
740

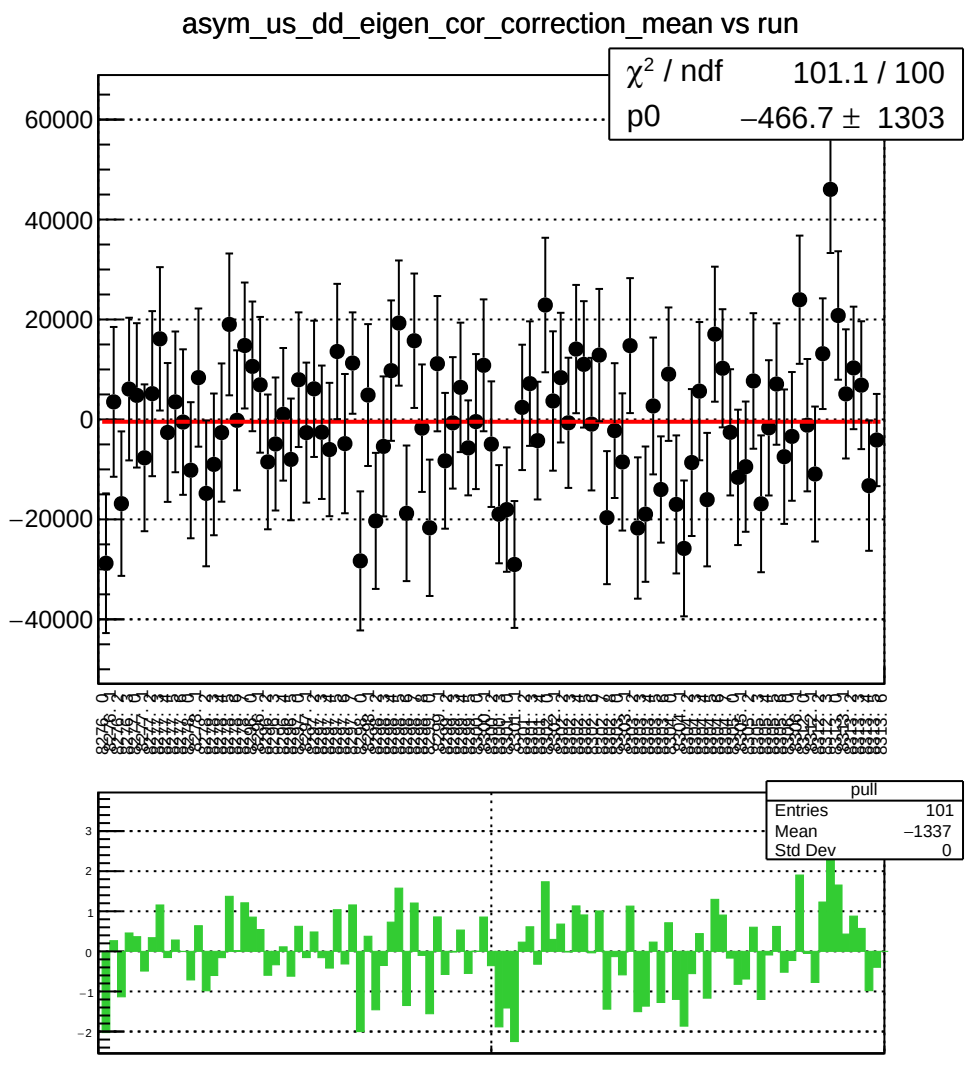

asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 101.2 / 100
p0 −481.7 ± 1304
60000
40000
20000
0
−20000
−40000
pull
Entries 101
Mean −1591
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.001366
Std Dev 1.001
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

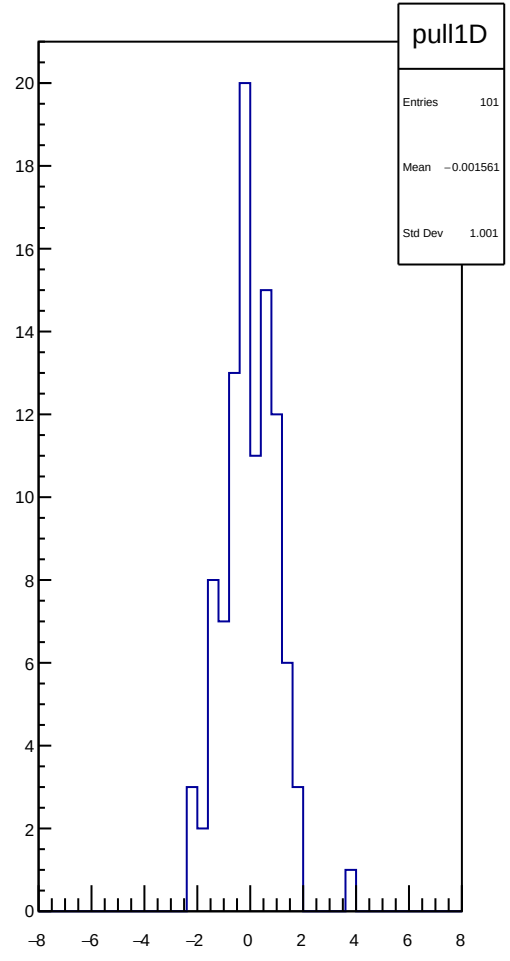

asym_us_dd_overload_cor_correction_rms vs run
χ^2 / ndf 4052 / 100
p0 1279 ± 0.9219
1600
1500
1400
1300
1200

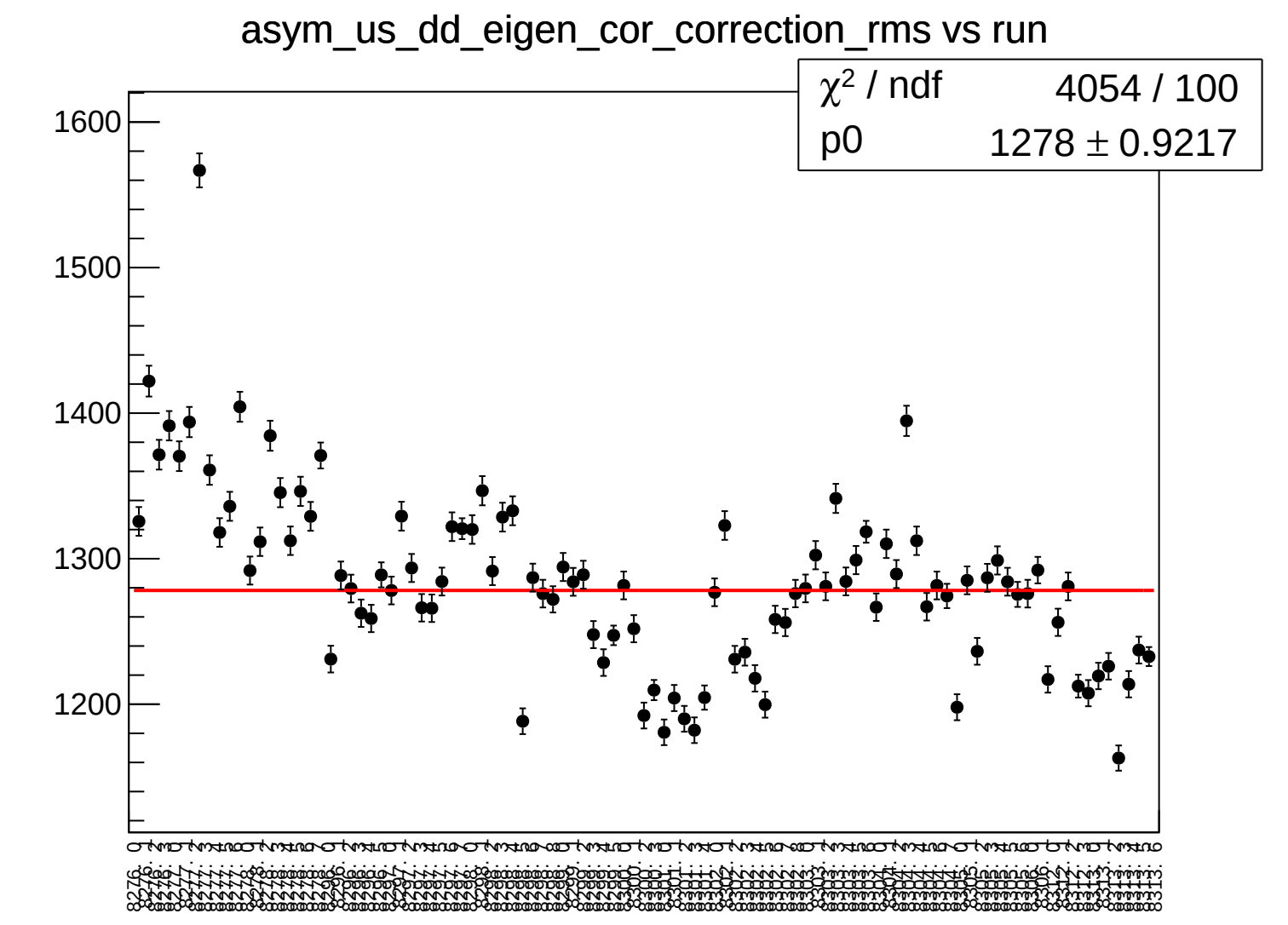

eigen_cor_asym_us_dd_mean vs run
χ² / ndf 104.5 / 100
p0 −316.6 ± 770.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 101
Mean 259
Std Dev 0
3
2
1
0
−1
−2

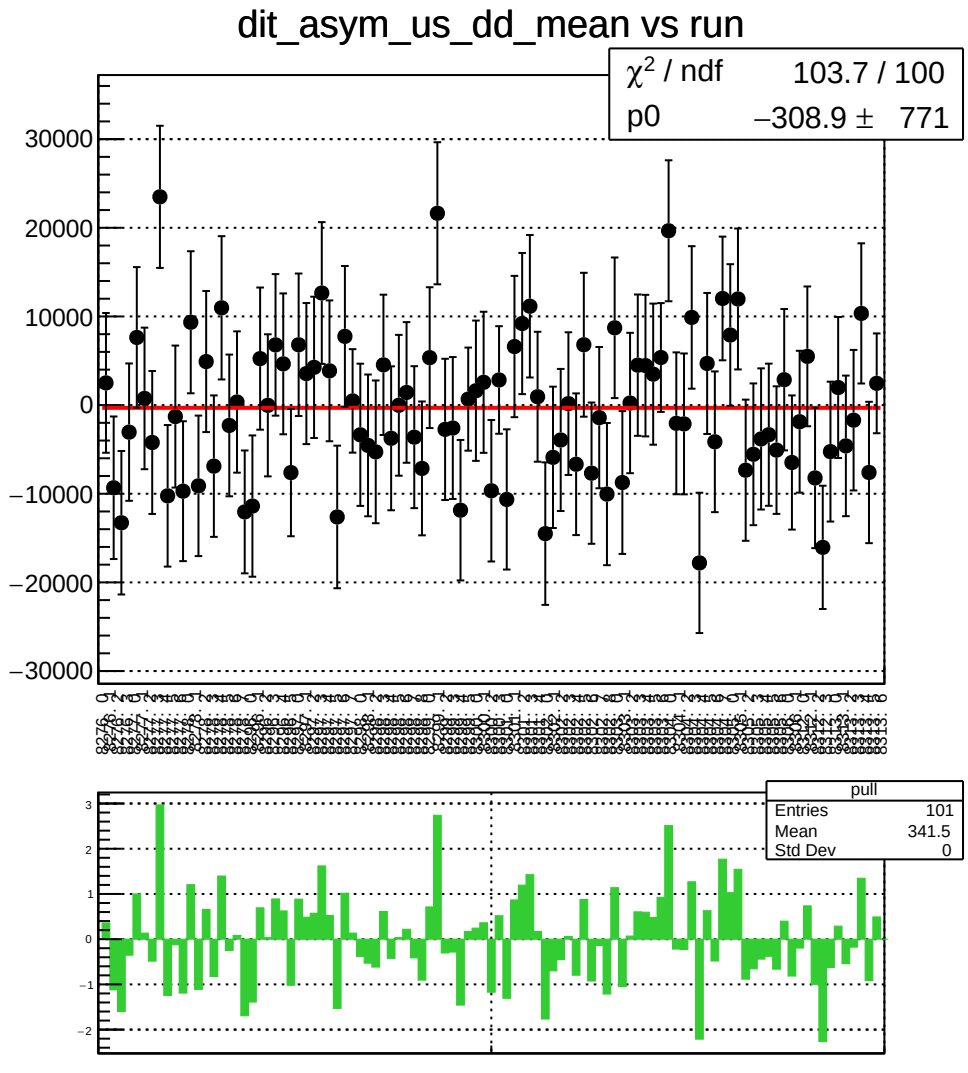

pull1D
Entries 101
Mean −0.001735
Std Dev 1.017
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

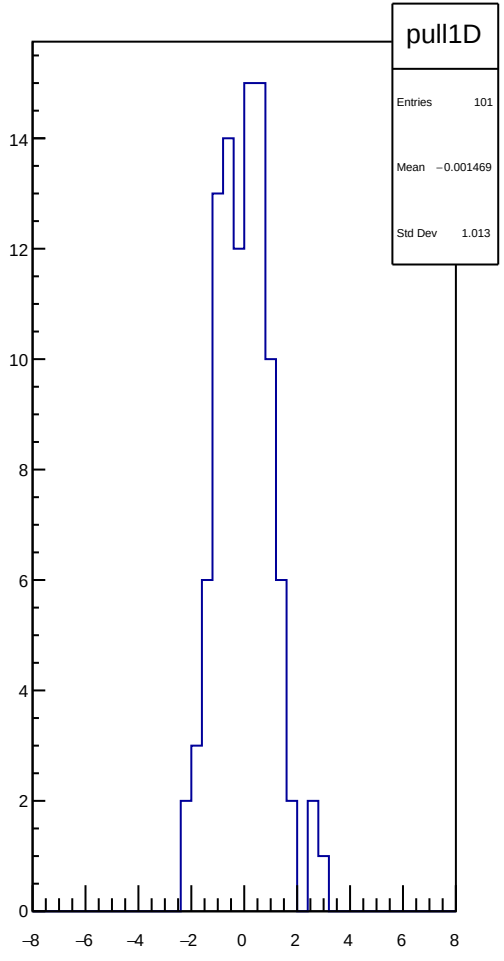

eigen_cor_asym_us_dd_rms vs run
χ² / ndf 81.58 / 100
p0 756.5 ± 0.5449
775
770
765
760
755
750
745
740

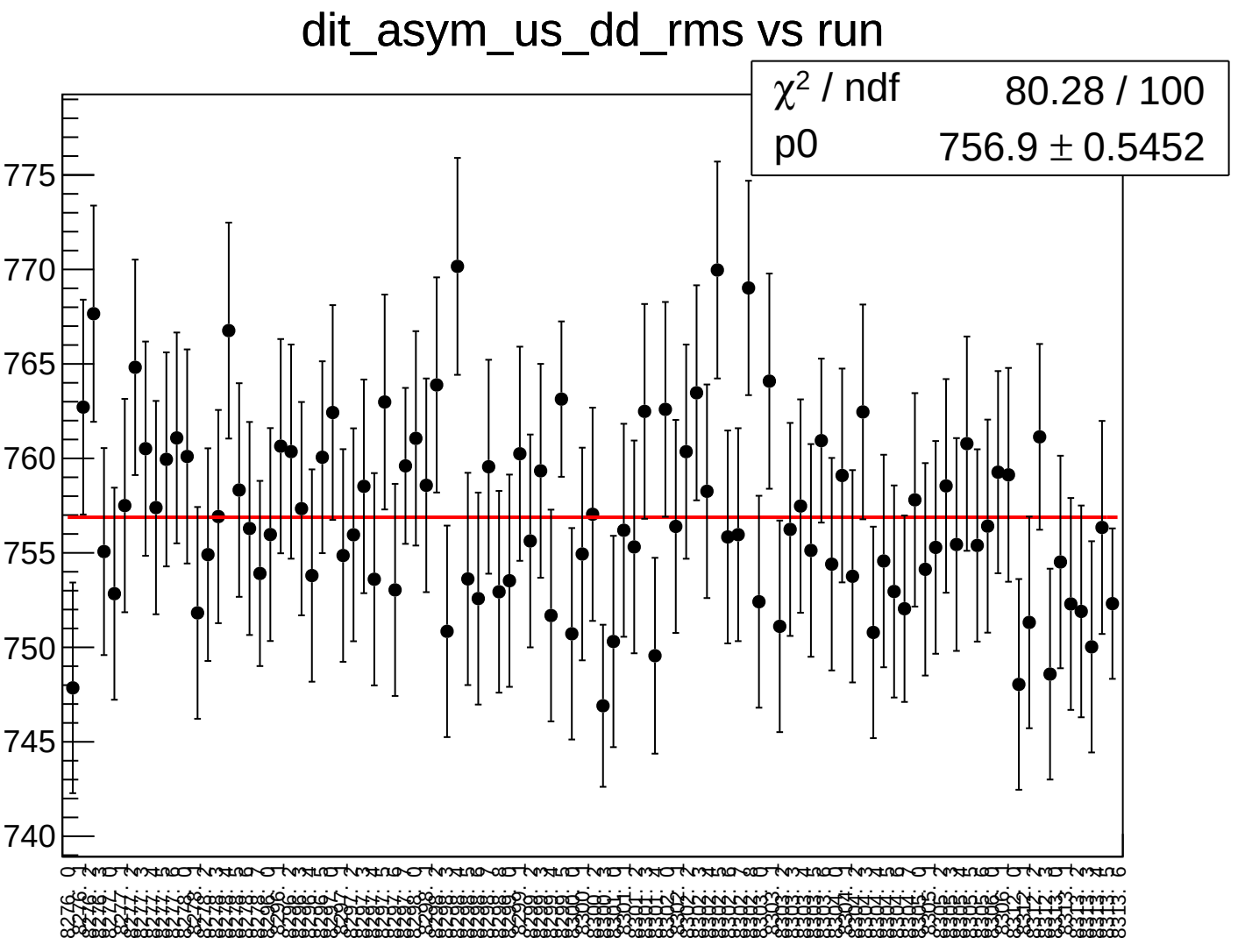

asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 101.1 / 100
p0 −466.7 ± 1303
60000
40000
20000
0
−20000
−40000
pull
Entries 101
Mean −1337
Std Dev 0
3
2
1
0
−1
−2

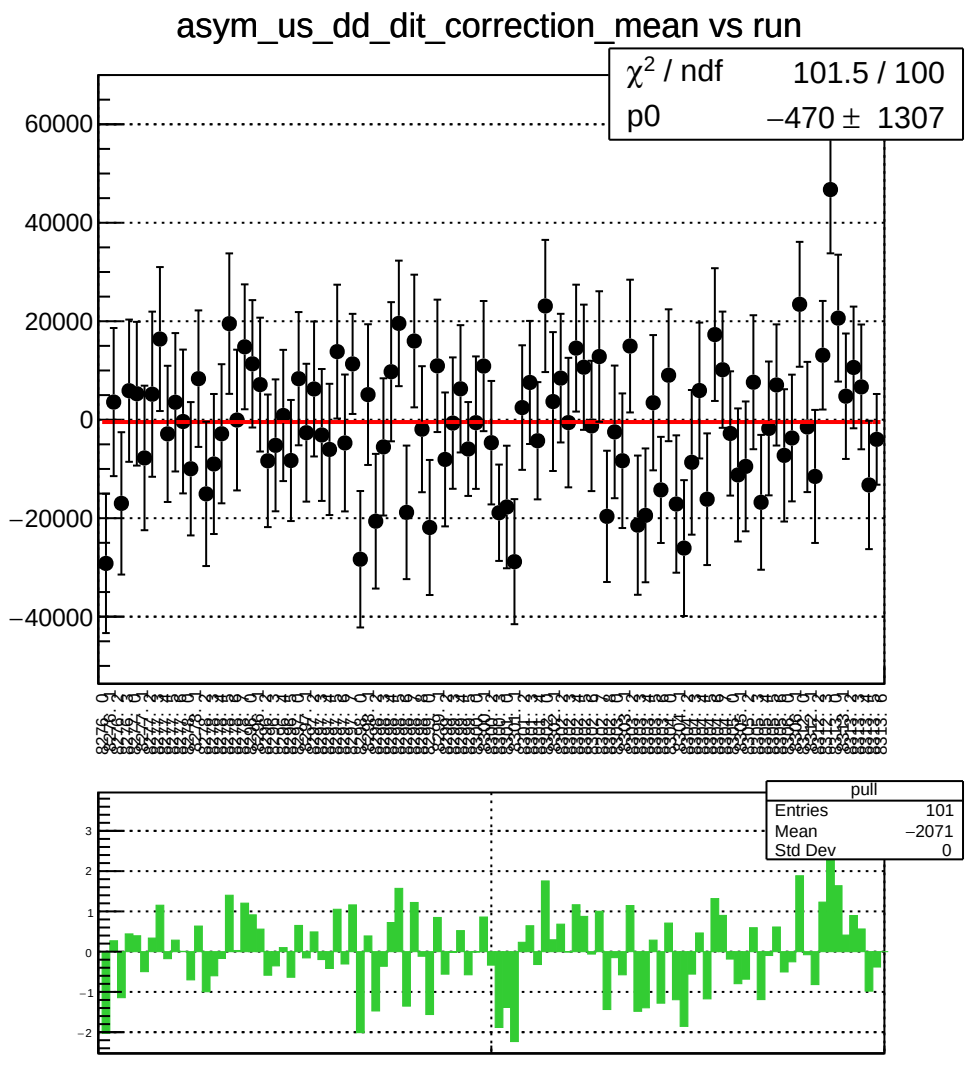

pull1D
Entries 101
Mean −0.001561
Std Dev 1.001
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

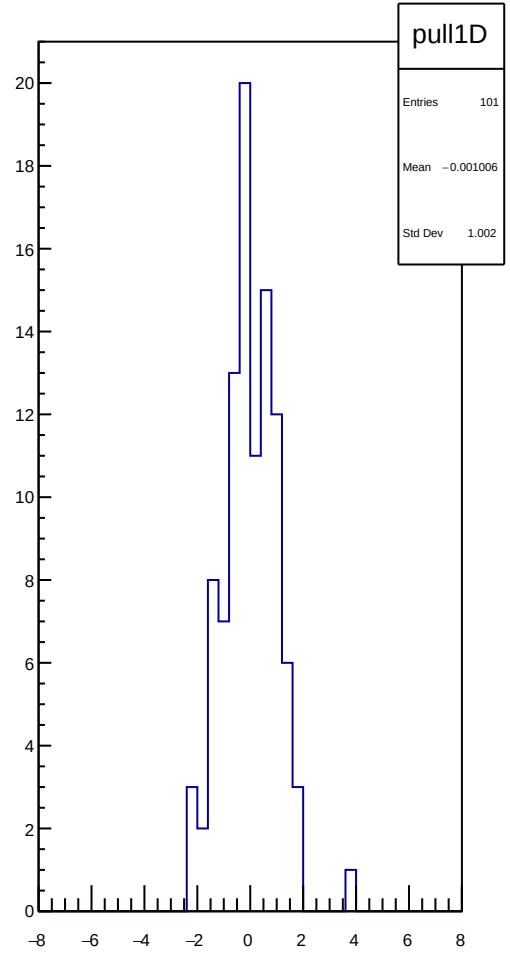

asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 4054 / 100
p0 1278 ± 0.9217
1600
1500
1400
1300
1200

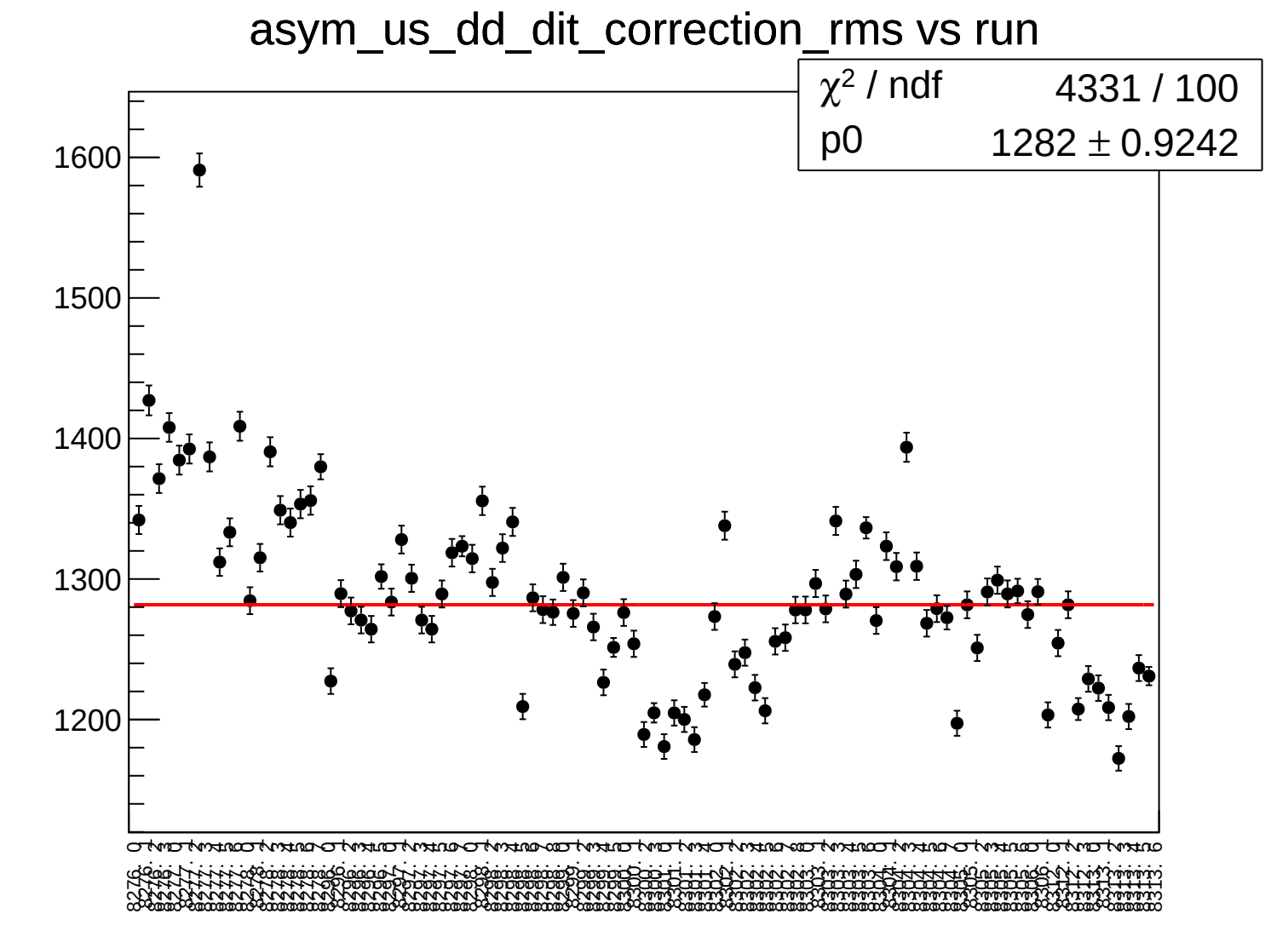

dit_asym_us_dd_mean vs run
χ² / ndf 103.7 / 100
p0 −308.9 ± 771
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 101
Mean 341.5
Std Dev 0
3
2
1
0
−1
−2

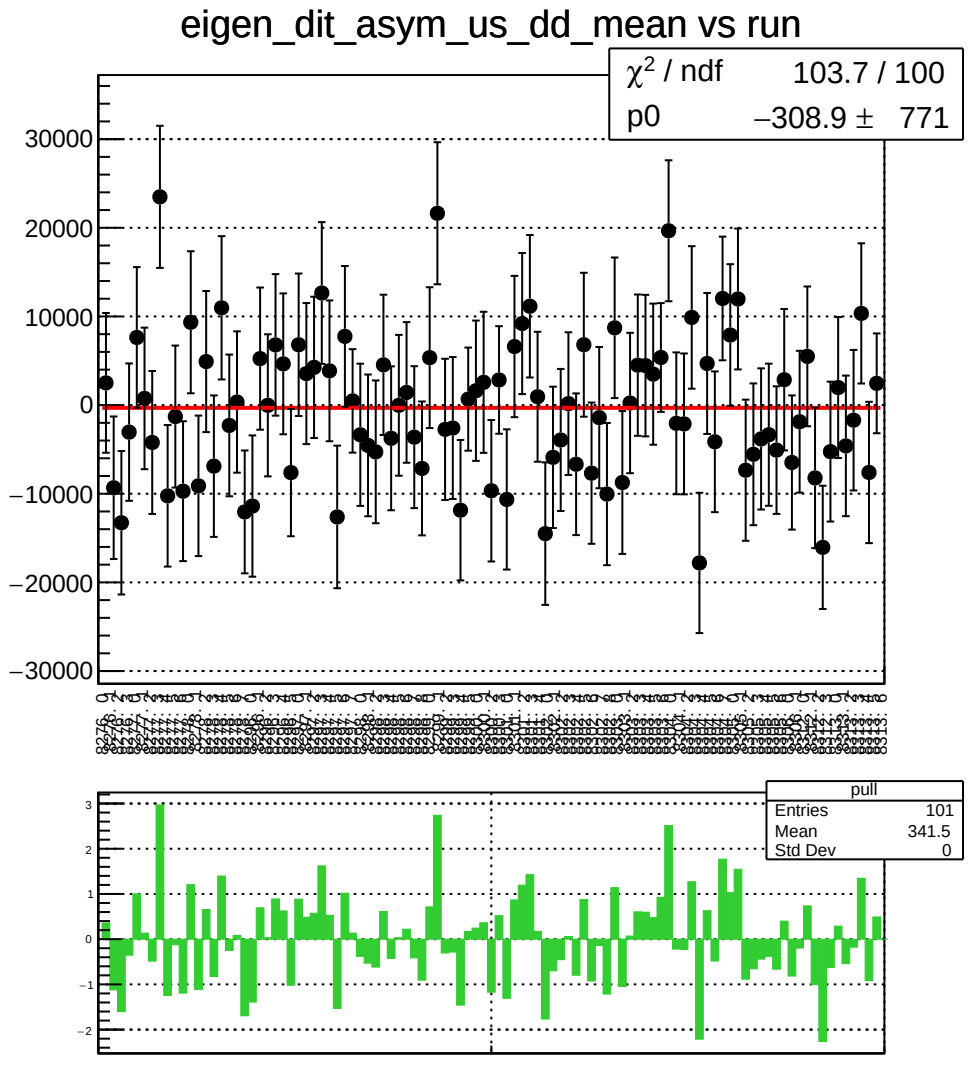

pull1D
Entries 101
Mean −0.001469
Std Dev 1.013
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

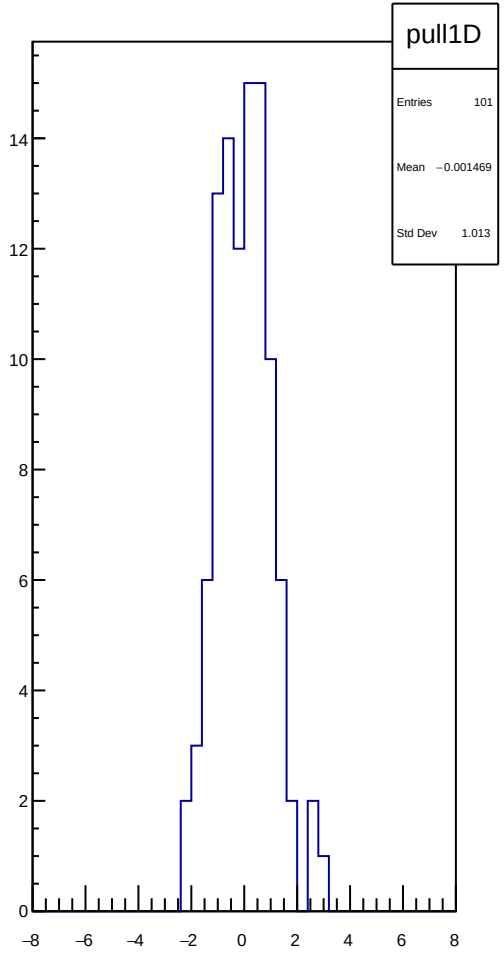

dit_asym_us_dd_rms vs run
χ^2 / ndf 80.28 / 100
p0 756.9 ± 0.5452
775
770
765
760
755
750
745
740

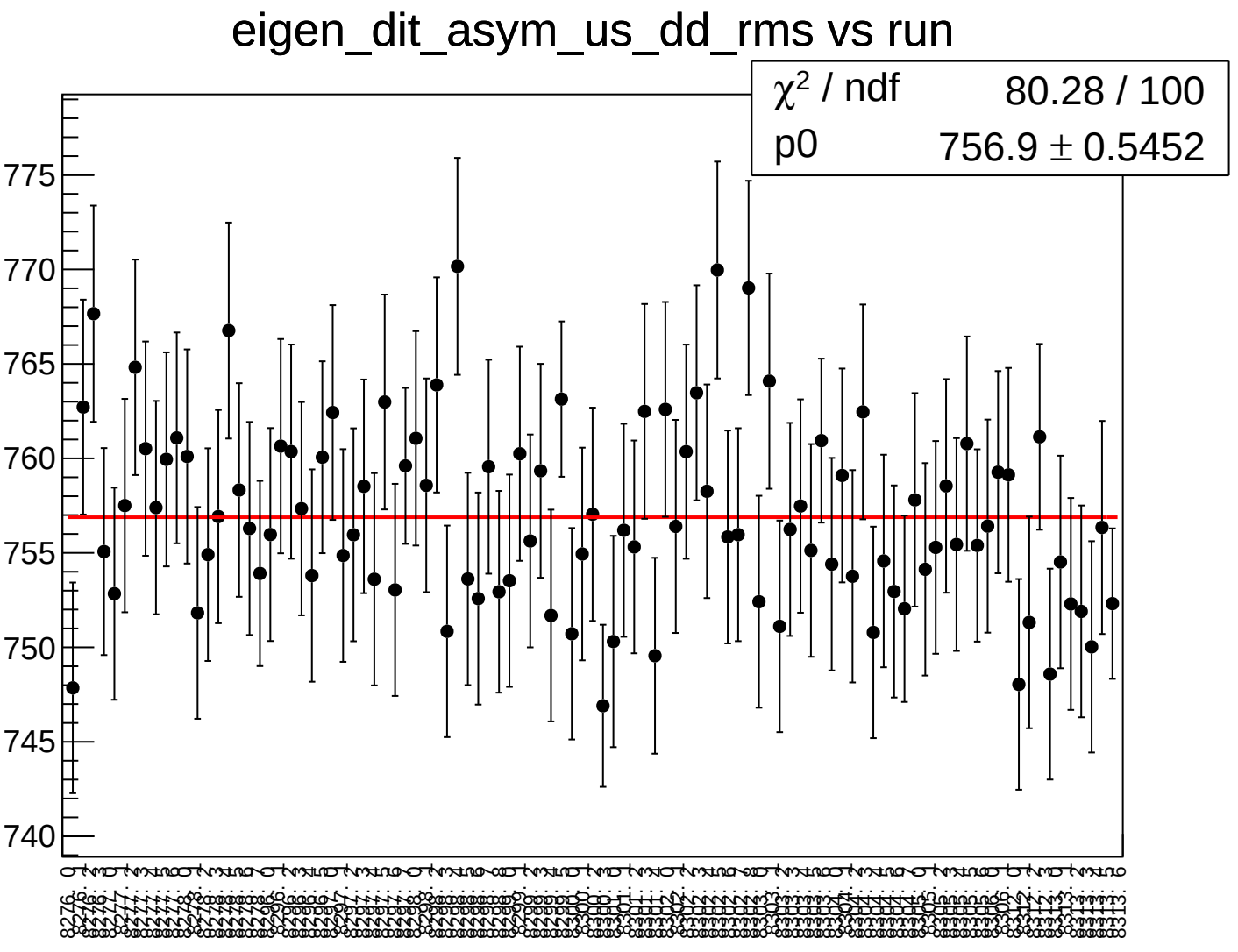

asym_us_dd_dit_correction_mean vs run
χ² / ndf 101.5 / 100
p0 −470 ± 1307
60000
40000
20000
0
−20000
−40000
pull
Entries 101
Mean −2071
Std Dev 0
3
2
1
0
−1
−2

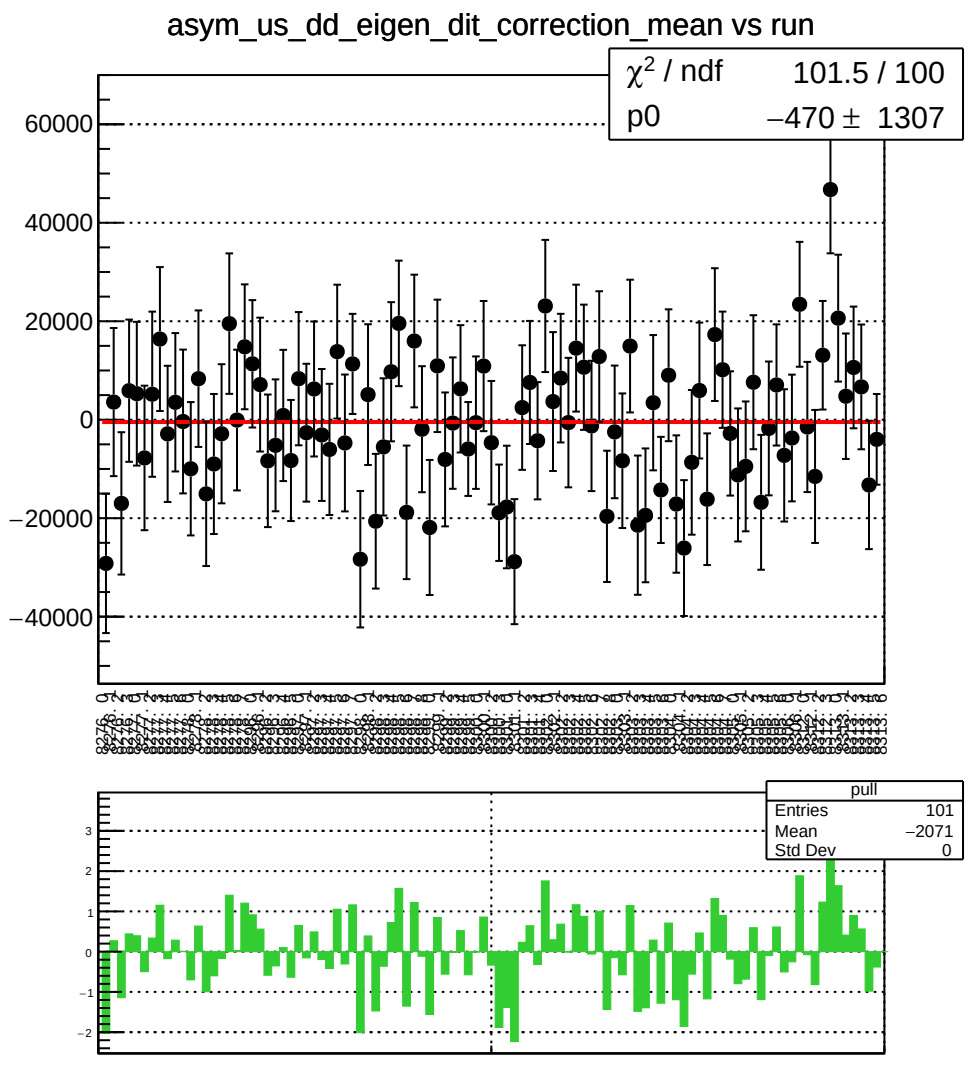

pull1D
Entries 101
Mean −0.001006
Std Dev 1.002
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

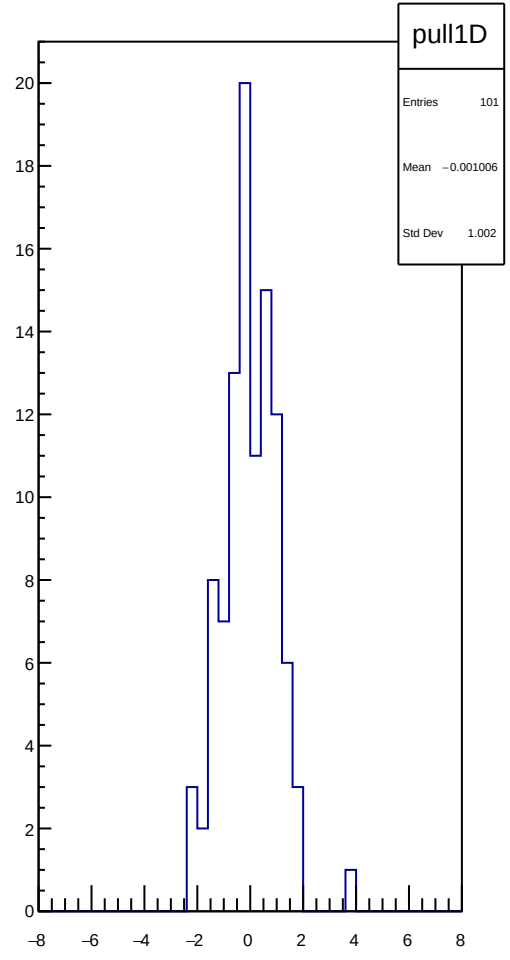

asym_us_dd_dit_correction_rms vs run
χ² / ndf 4331 / 100
p0 1282 ± 0.9242
1600
1500
1400
1300
1200

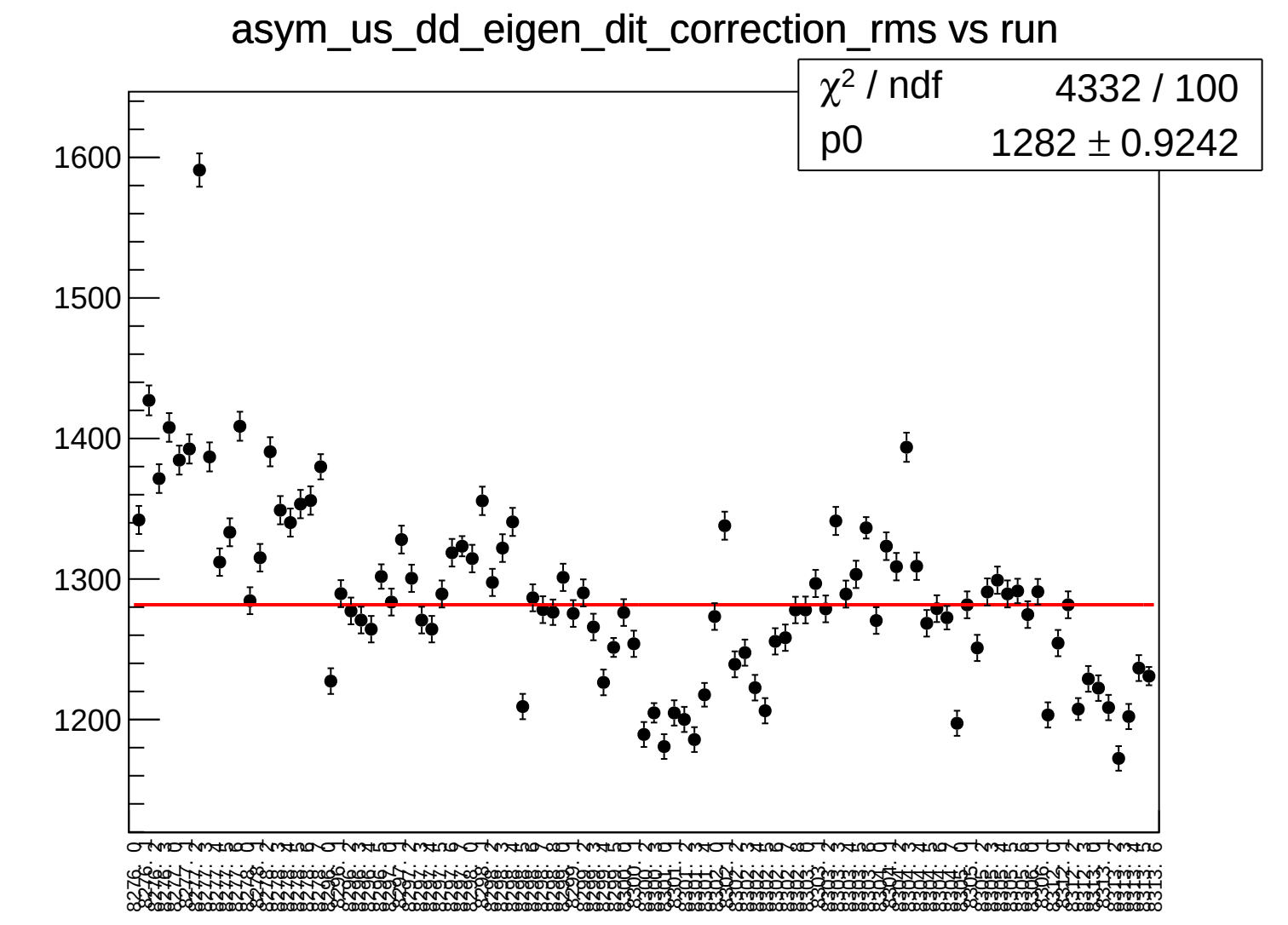

eigen_dit_asym_us_dd_mean vs run
χ² / ndf 103.7 / 100
p0 −308.9 ± 771
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 101
Mean 341.5
Std Dev 0
3
2
1
0
−1
−2

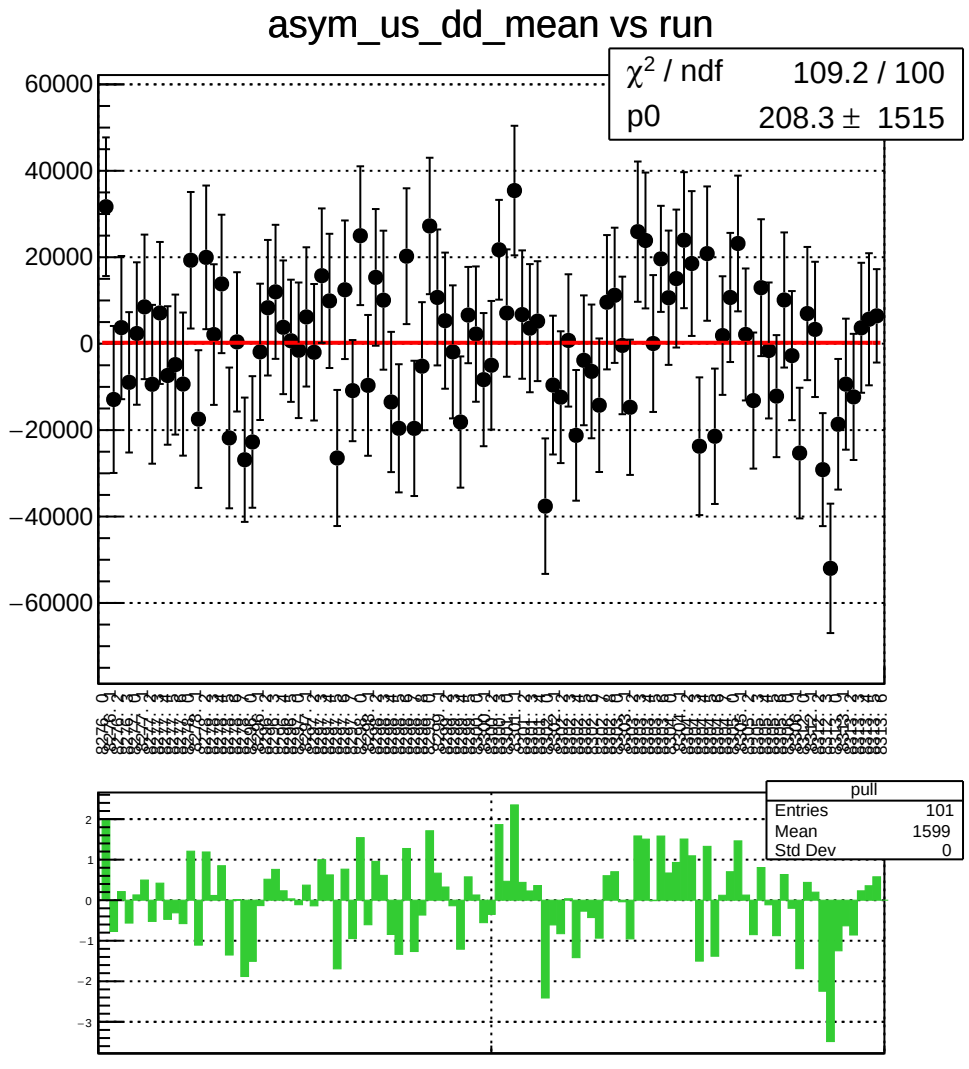

pull1D
Entries 101
Mean −0.001469
Std Dev 1.013
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

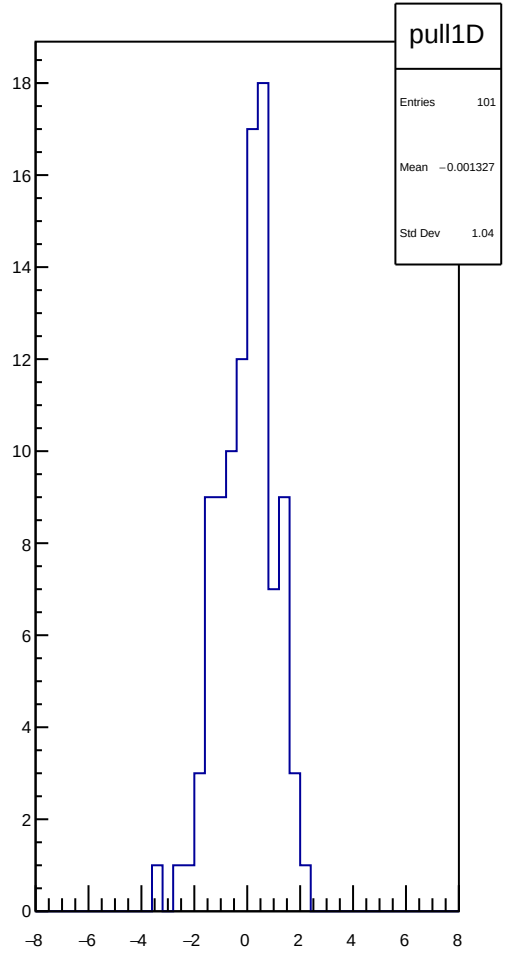

eigen_dit_asym_us_dd_rms vs run
χ² / ndf 80.28 / 100
p0 756.9 ± 0.5452
775
770
765
760
755
750
745
740

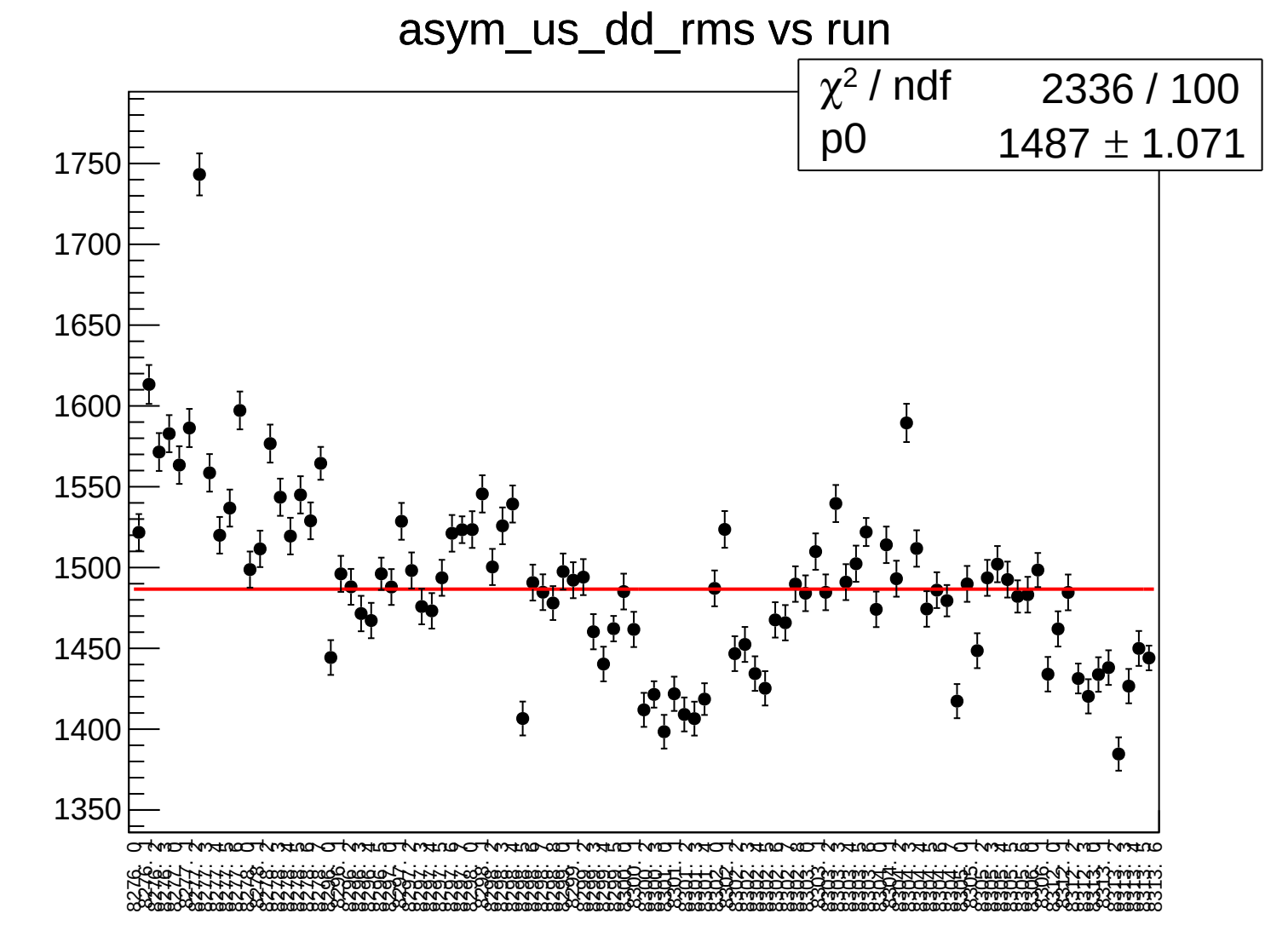

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 101.5 / 100
p0 −470 ± 1307
60000
40000
20000
0
−20000
−40000
pull
Entries 101
Mean −2071
Std Dev 0
3
2
1
0
−1
−2

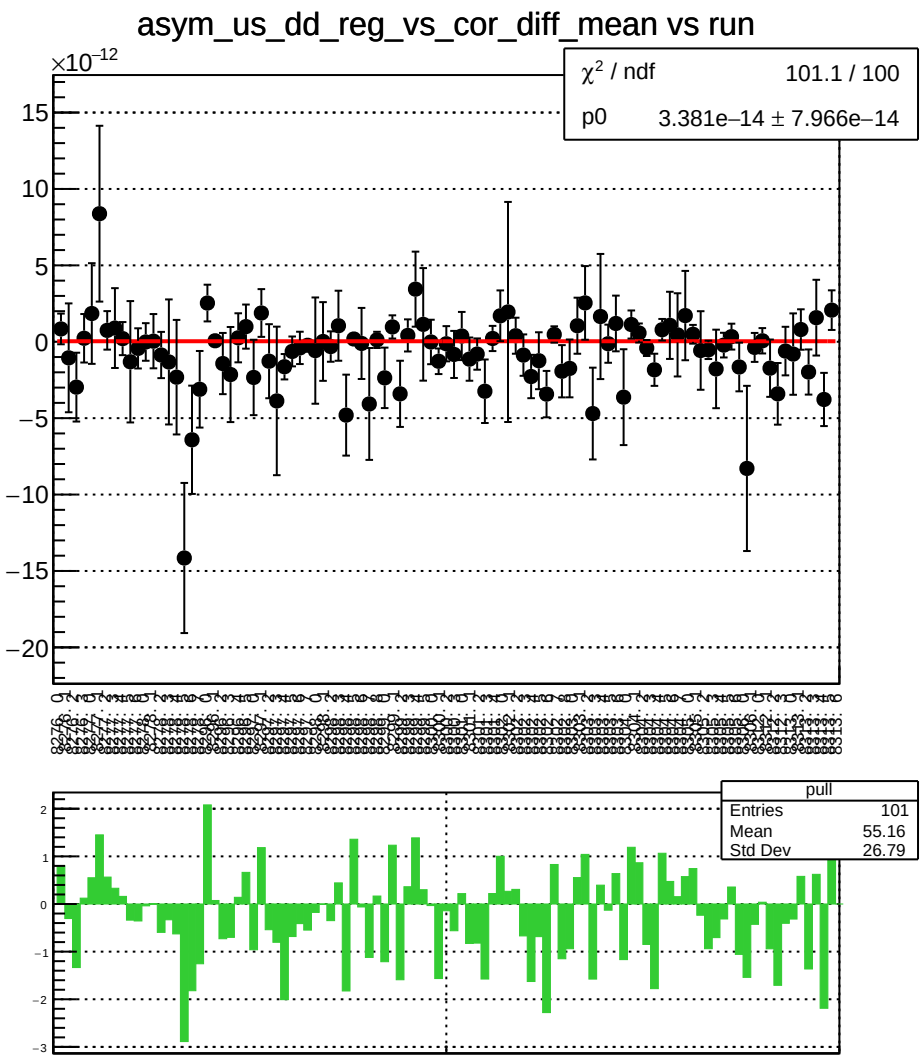

pull1D
Entries 101
Mean −0.001006
Std Dev 1.002
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

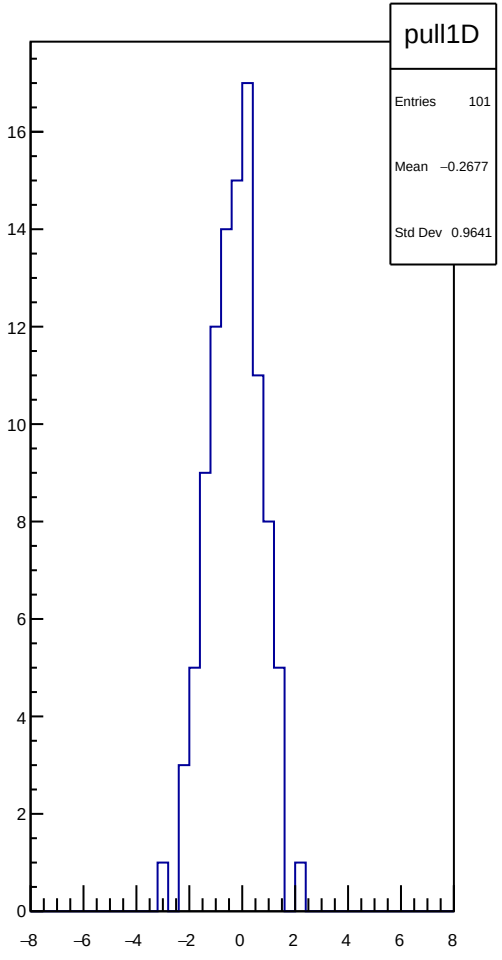

asym_us_dd_eigen_dit_correction_rms vs run
χ² / ndf 4332 / 100
p0 1282 ± 0.9242
1600
1500
1400
1300
1200

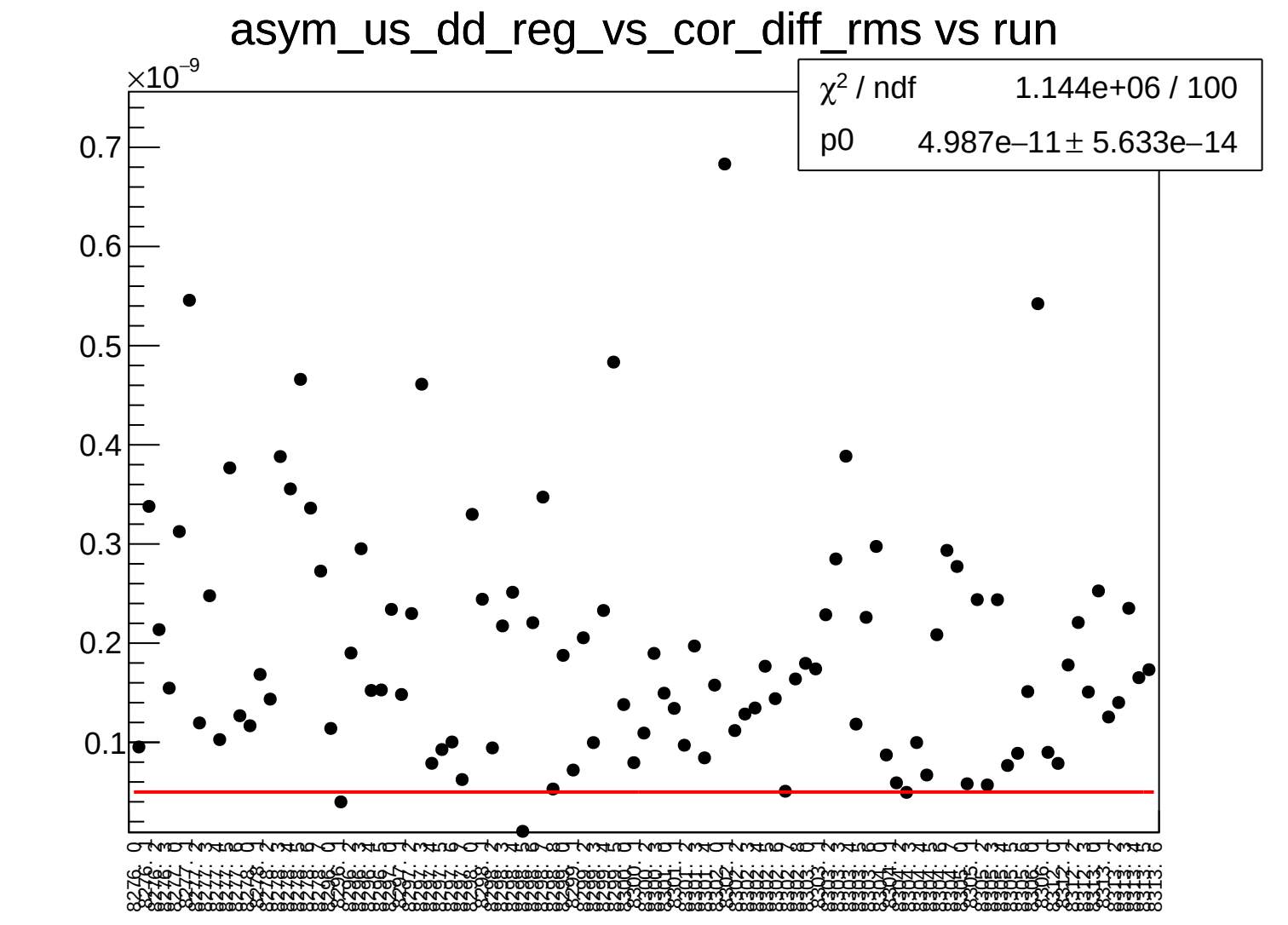

asym_us_dd_mean vs run
χ² / ndf 109.2 / 100
p0 208.3 ± 1515
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean 1599
Std Dev 0
2
1
0
−1
−2
−3

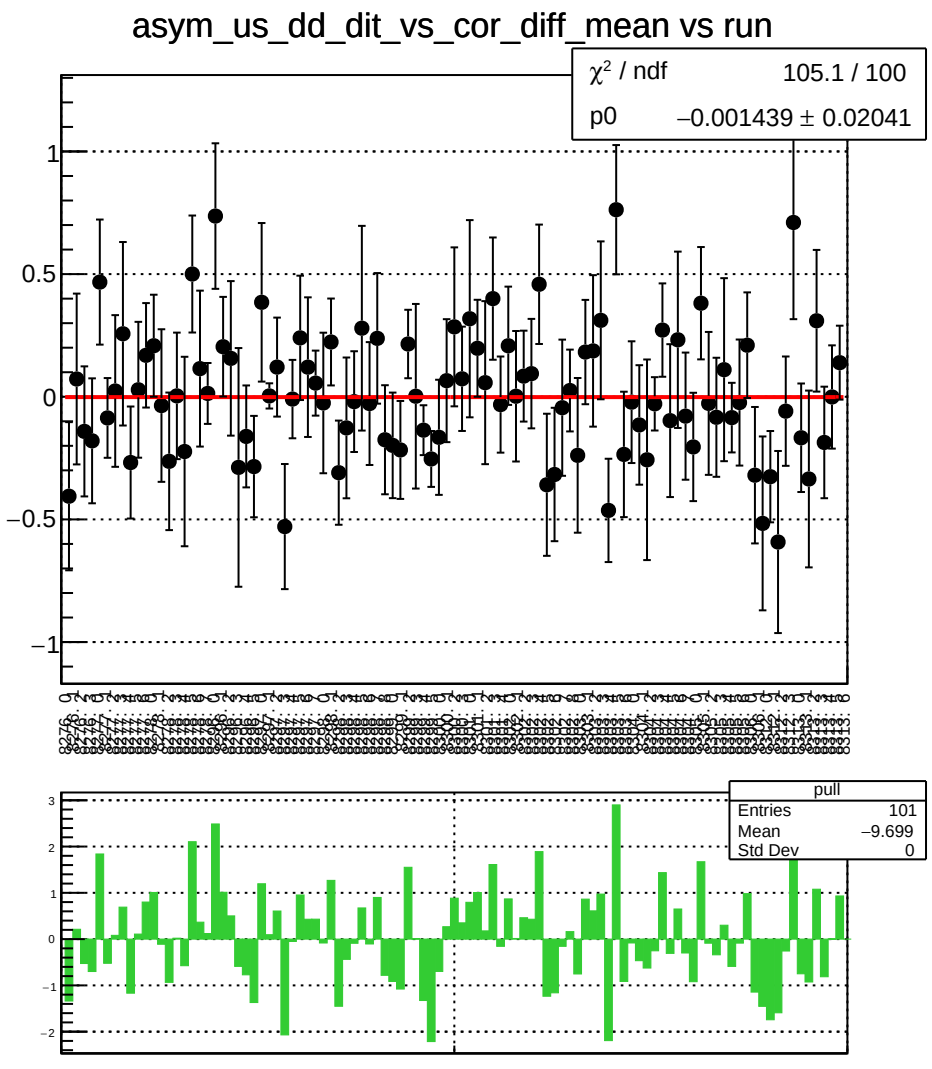

pull1D
Entries 101
Mean −0.001327
Std Dev 1.04
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

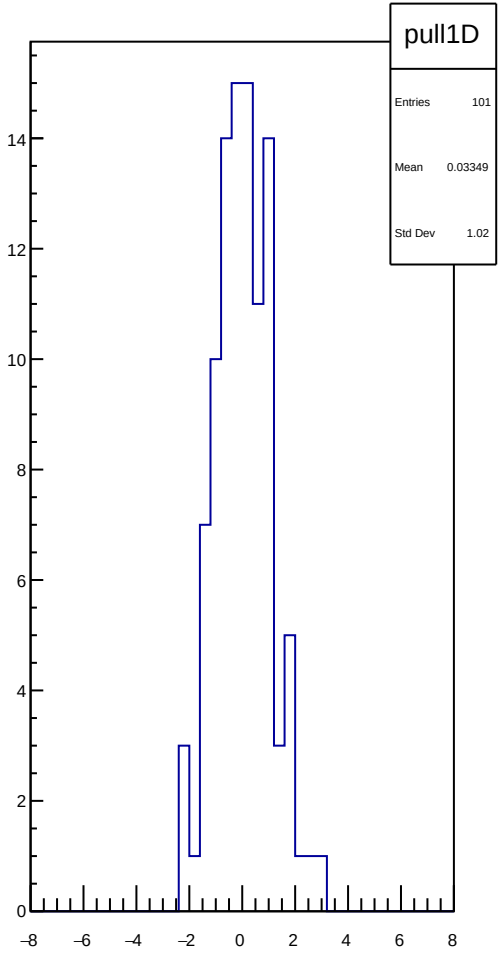

asym_us_dd_rms vs run
χ^2 / ndf 2336 / 100
p0 1487 ± 1.071
1750
1700
1650
1600
1550
1500
1450
1400
1350

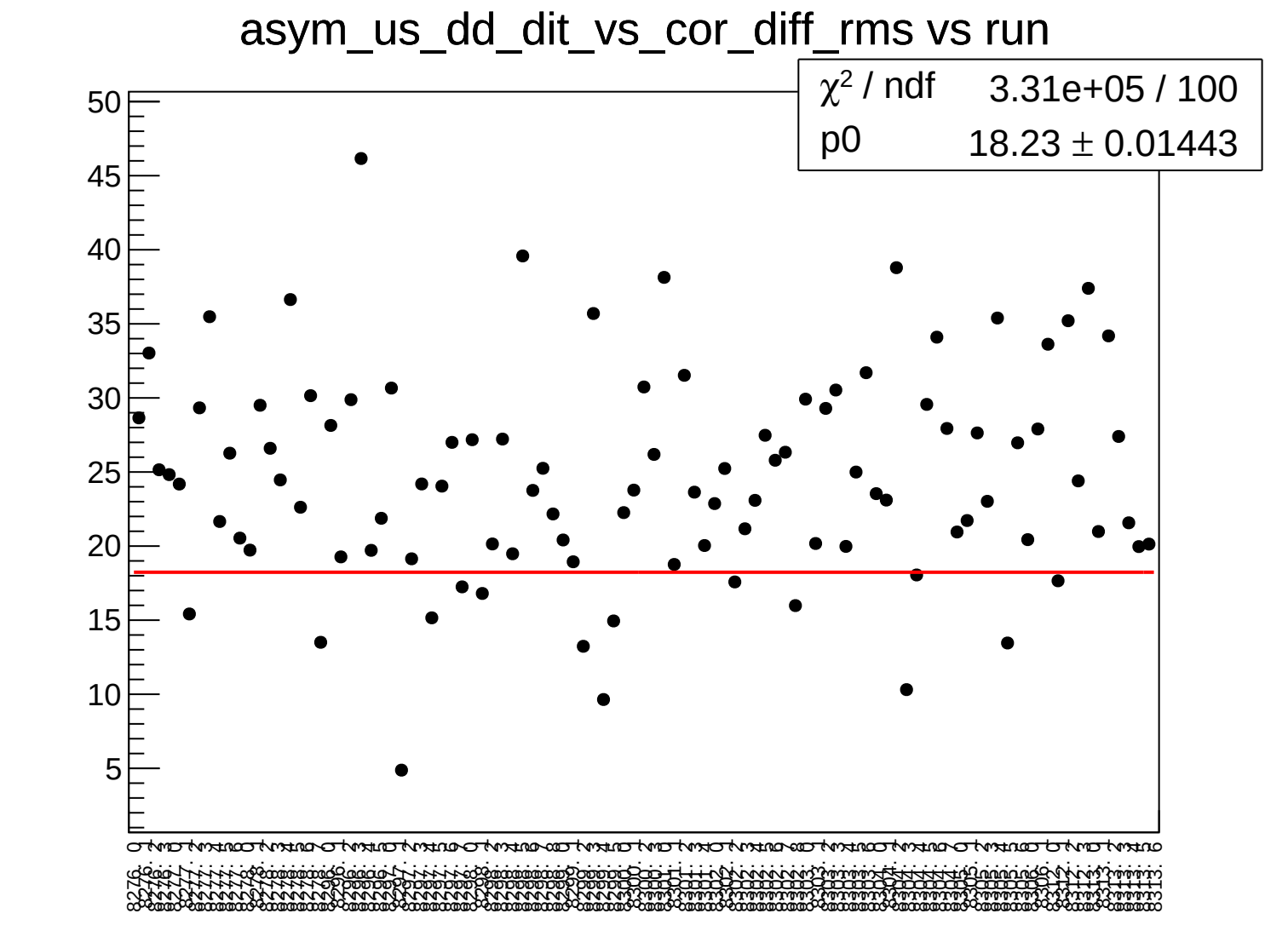

asym_us_dd_reg_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 101.1 / 100
p0 3.381e−14 ± 7.966e−14
pull
Entries 101
Mean 55.16
Std Dev 26.79

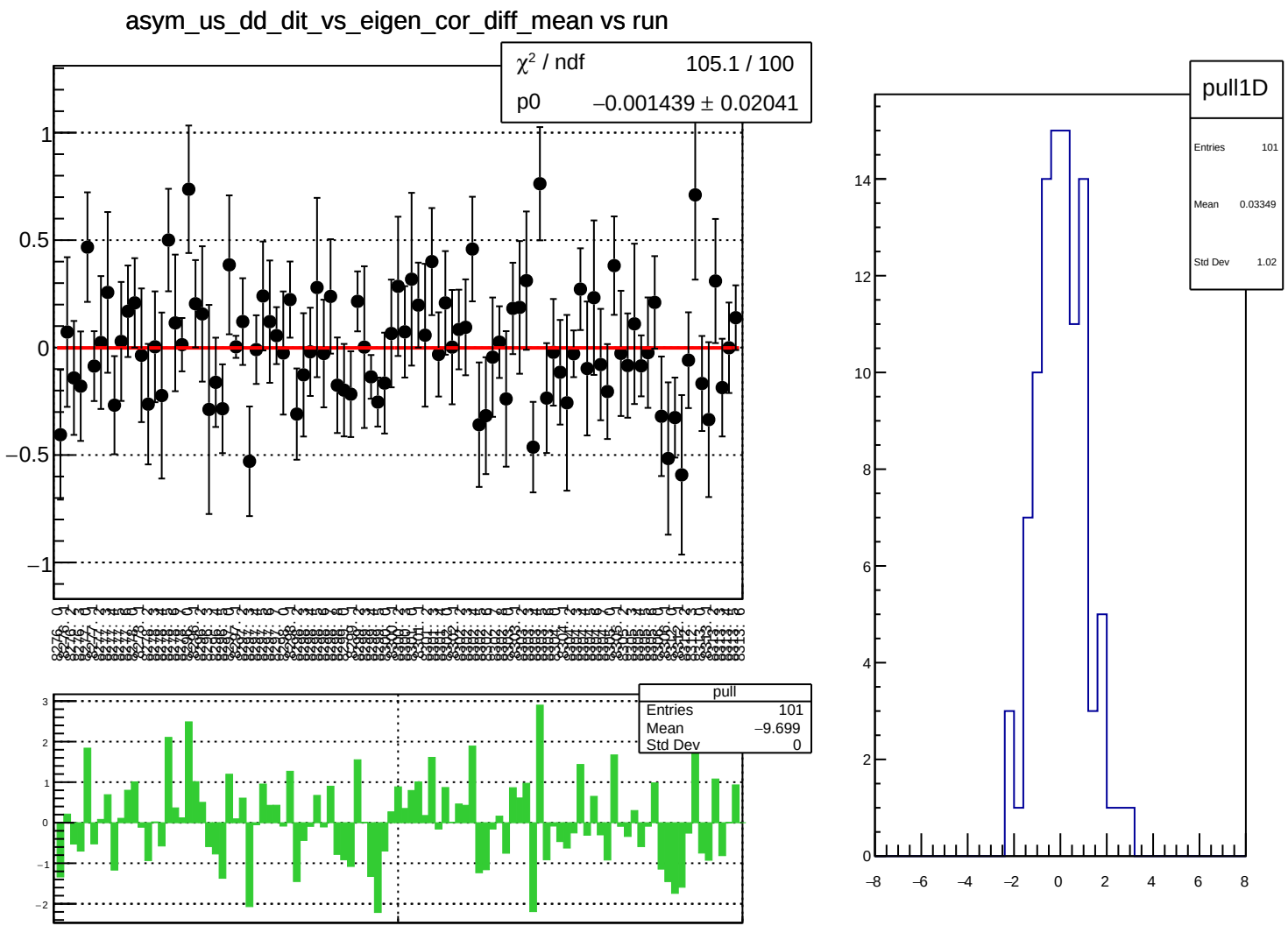

pull1D
Entries 101
Mean −0.2677
Std Dev 0.9641

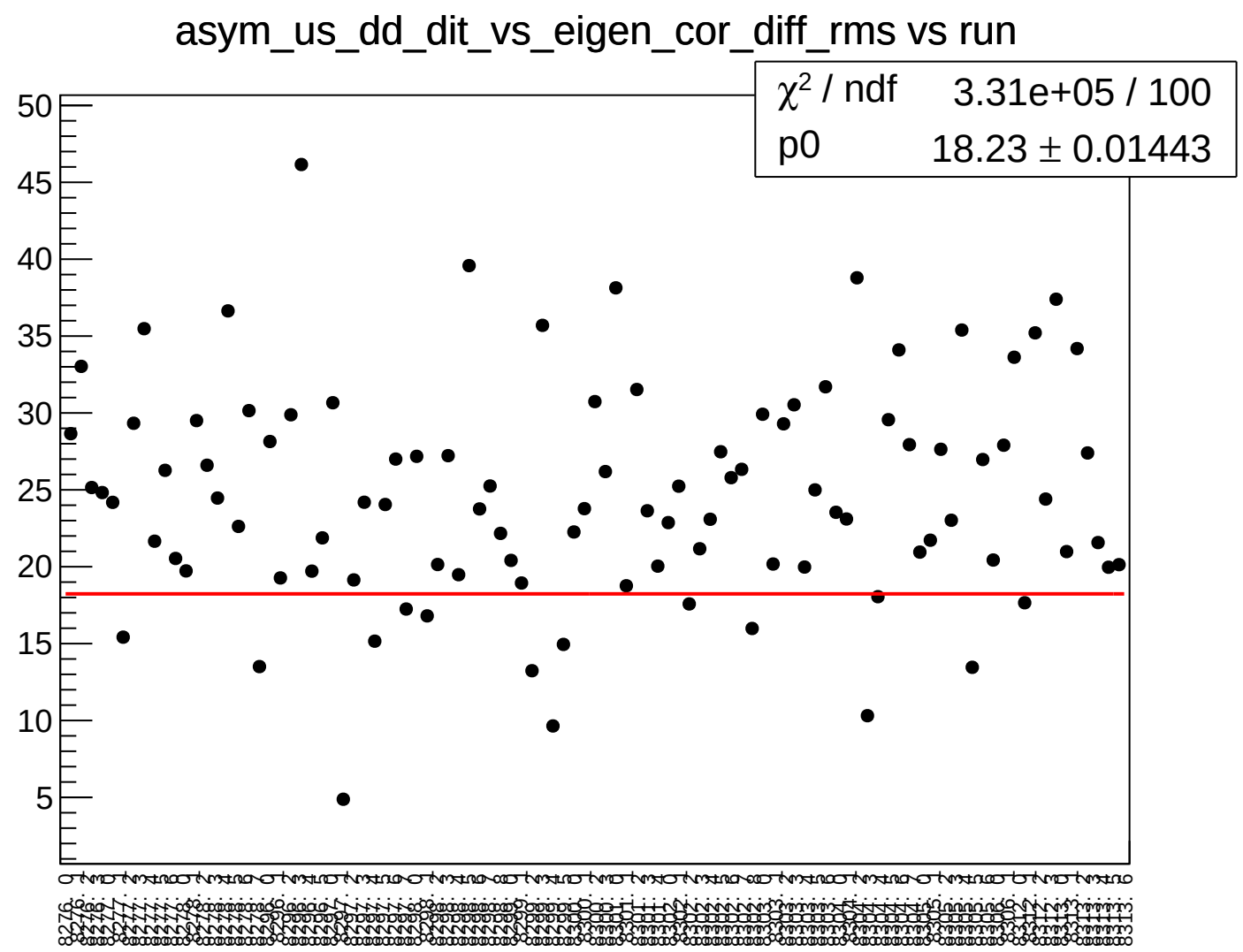

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.144e+06 / 100
p0 4.987e−11 ± 5.633e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

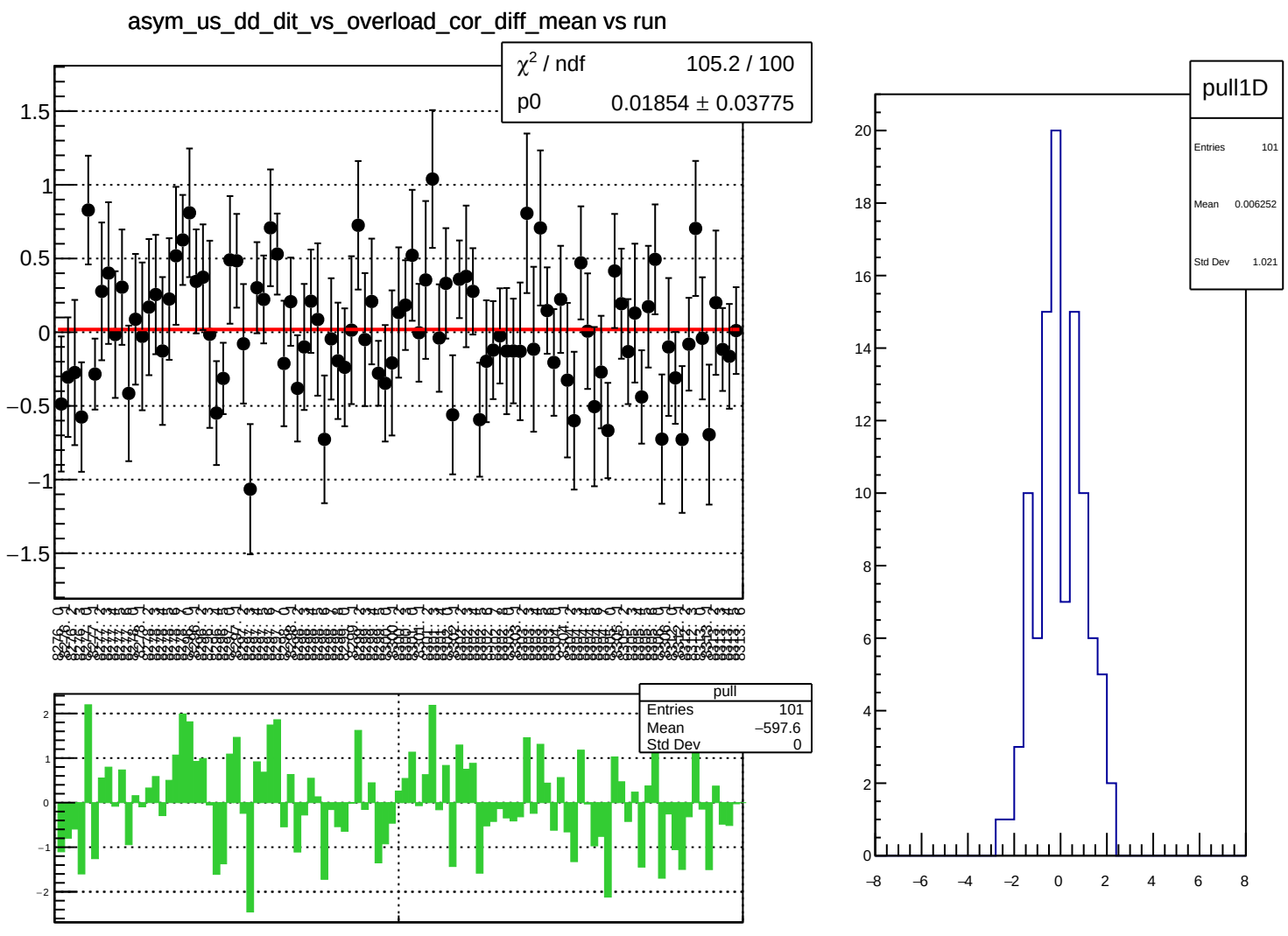

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 105.1 / 100
p0 −0.001439 ± 0.02041
pull
Entries 101
Mean −9.699
Std Dev 0

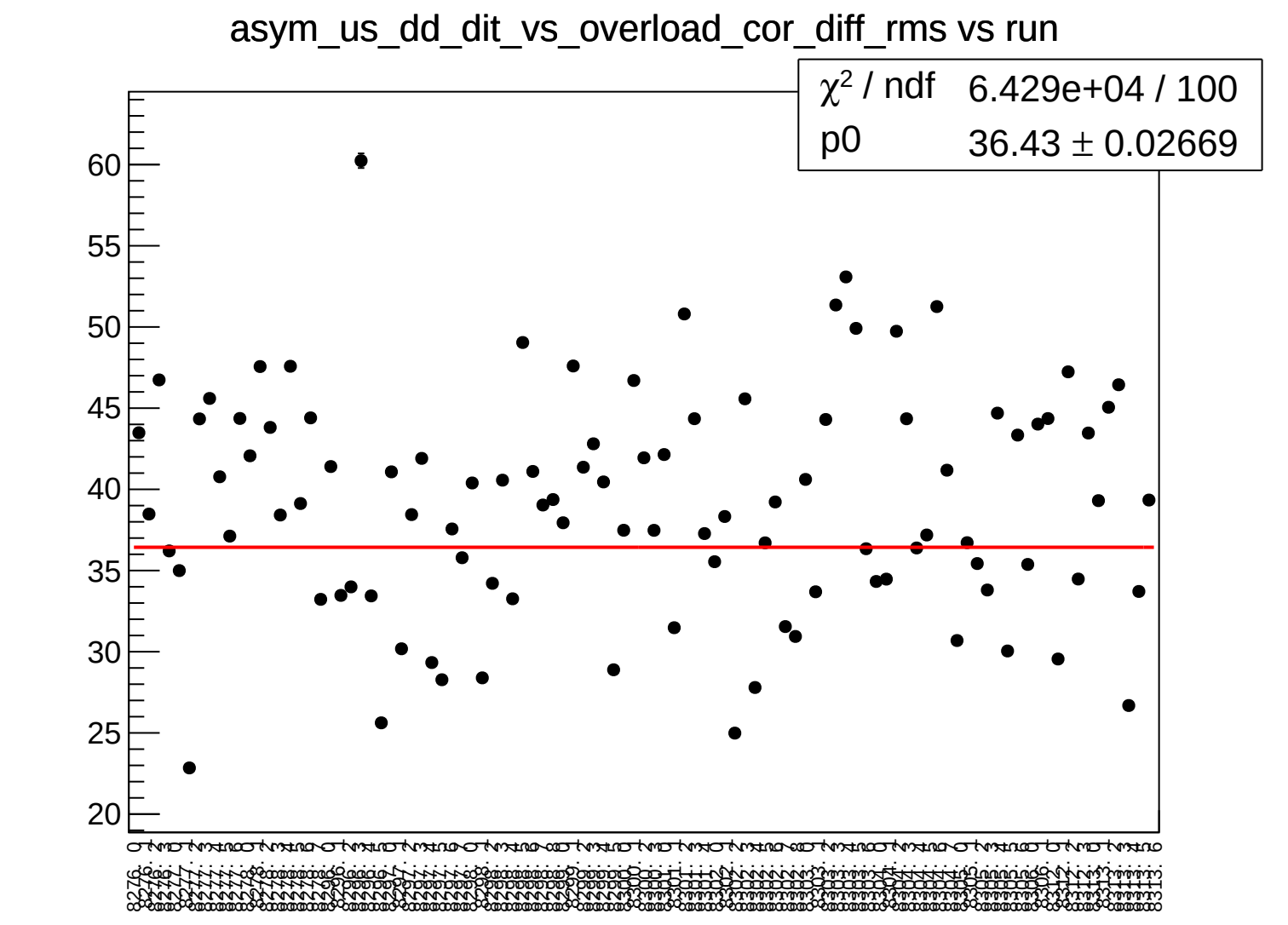

pull1D
Entries 101
Mean 0.03349
Std Dev 1.02

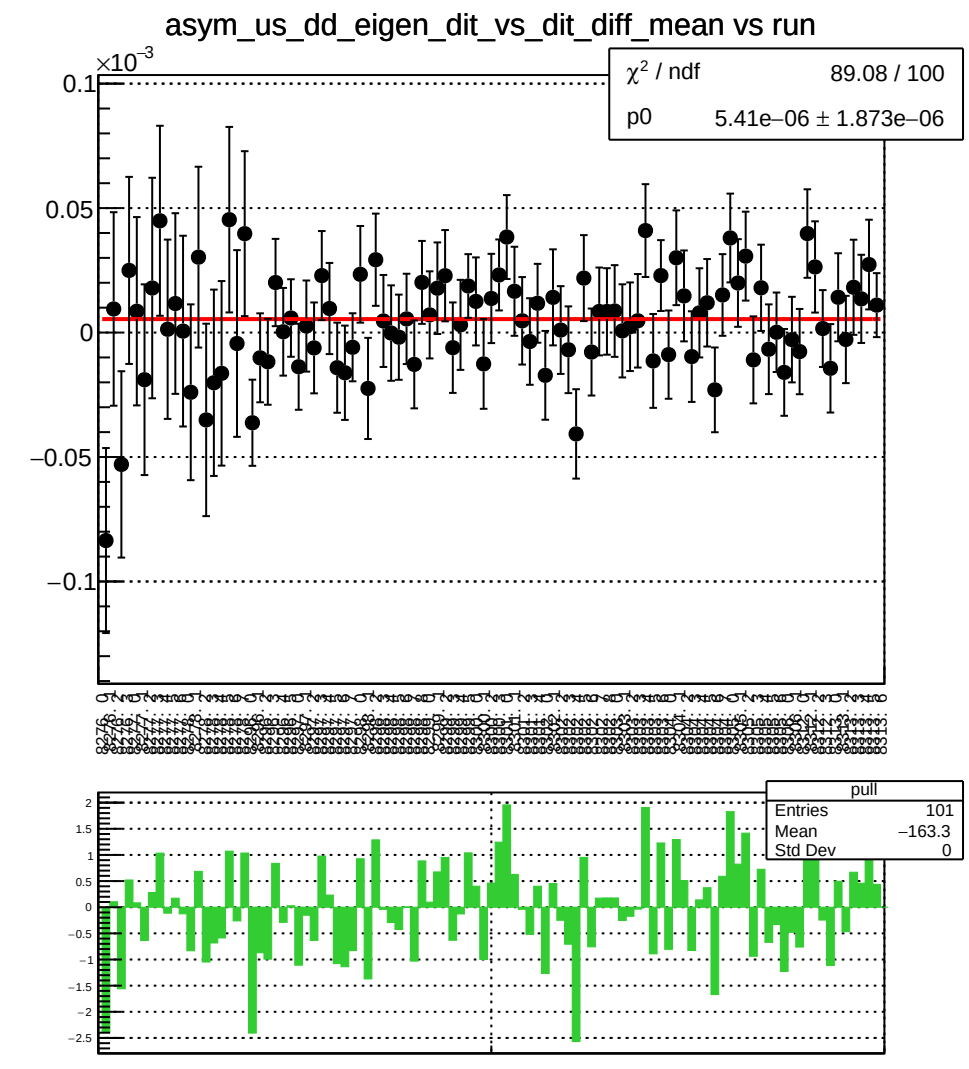

asym_us_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.31e+05 / 100
p0 18.23 ± 0.01443
50
45
40
35
30
25
20
15
10
5

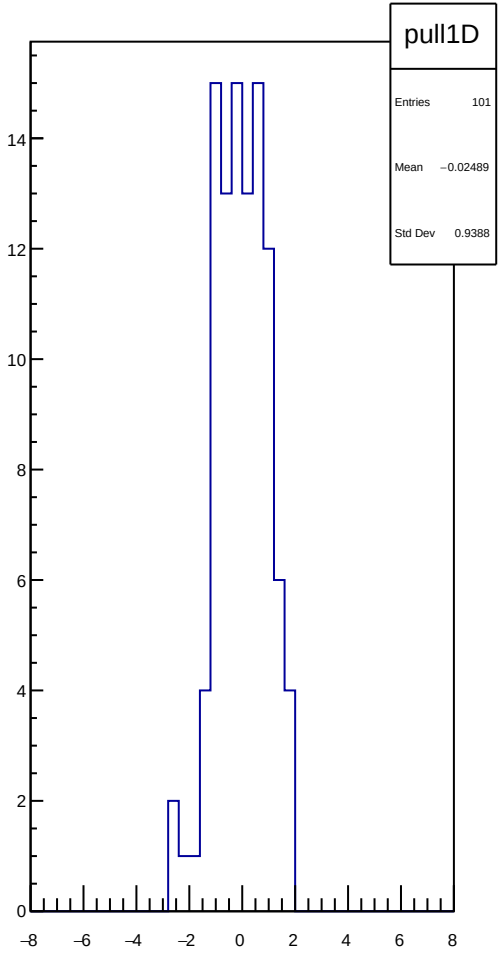

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.1 / 100
p0 −0.001439 ± 0.02041
pull
Entries 101
Mean −9.699
Std Dev 0
pull1D
Entries 101
Mean 0.03349
Std Dev 1.02

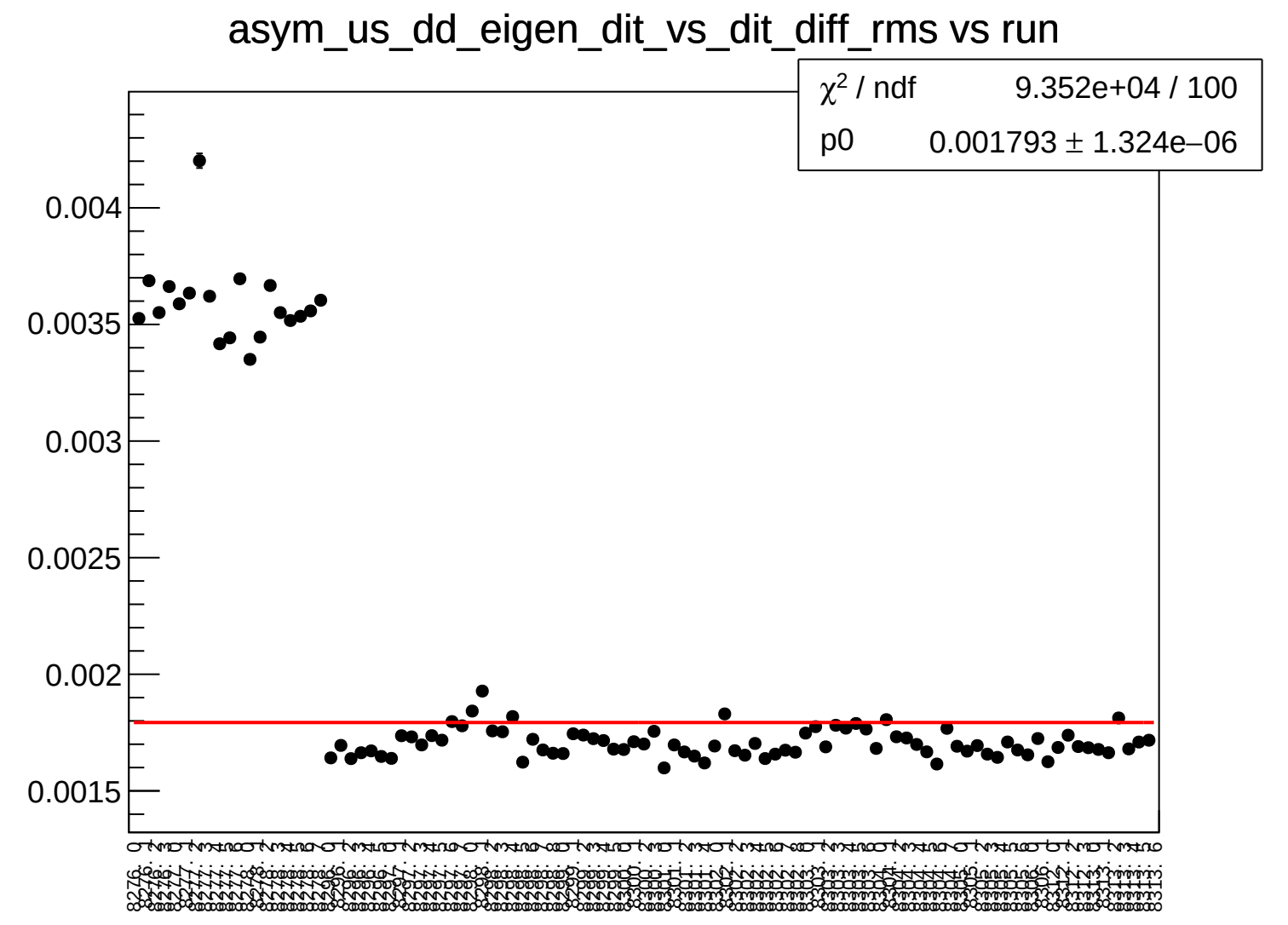

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 3.31e+05 / 100
p0 18.23 ± 0.01443
50
45
40
35
30
25
20
15
10
5

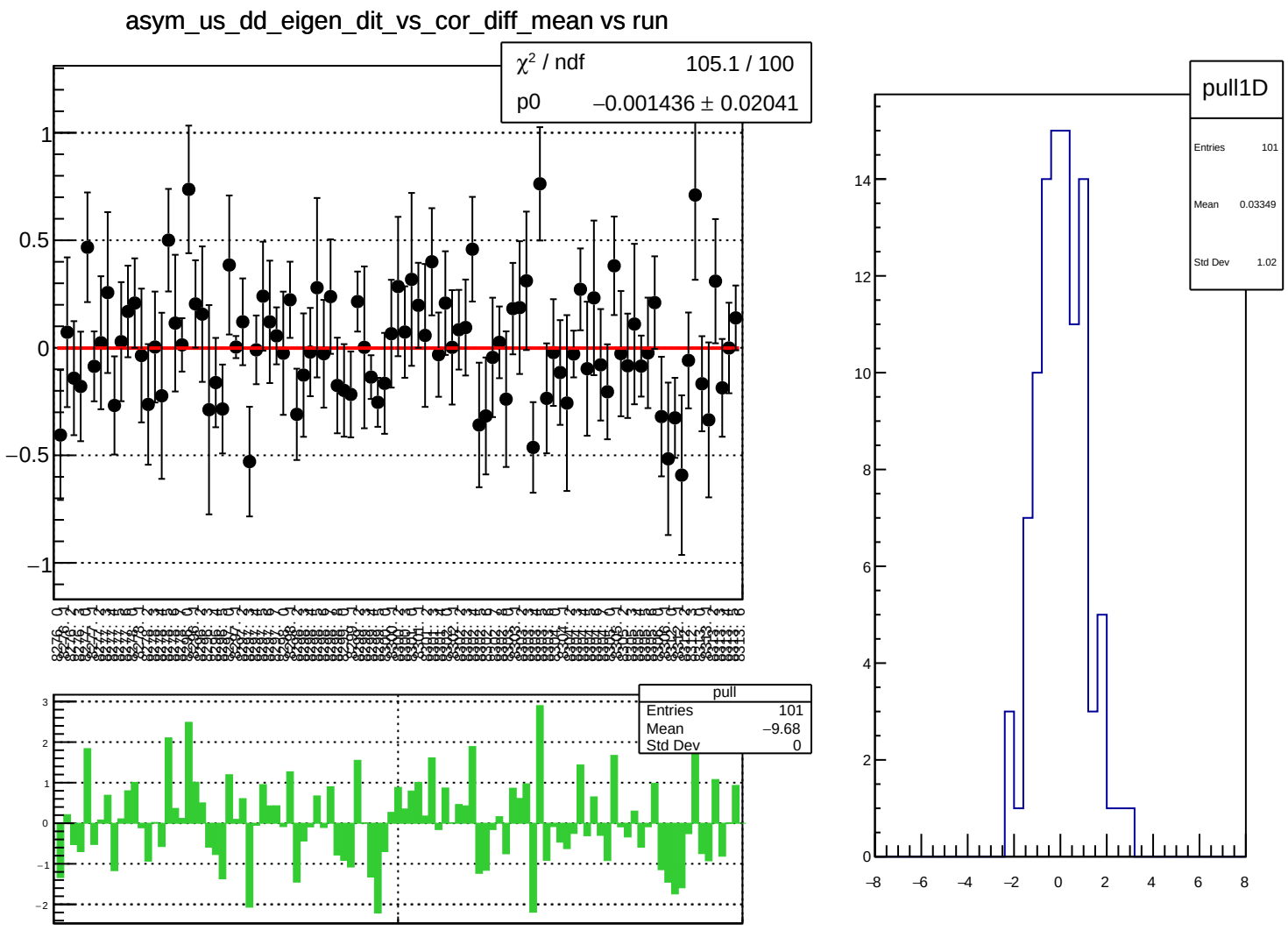

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 105.2 / 100
p0 0.01854 ± 0.03775
pull
Entries 101
Mean −597.6
Std Dev 0
pull1D
Entries 101
Mean 0.006252
Std Dev 1.021

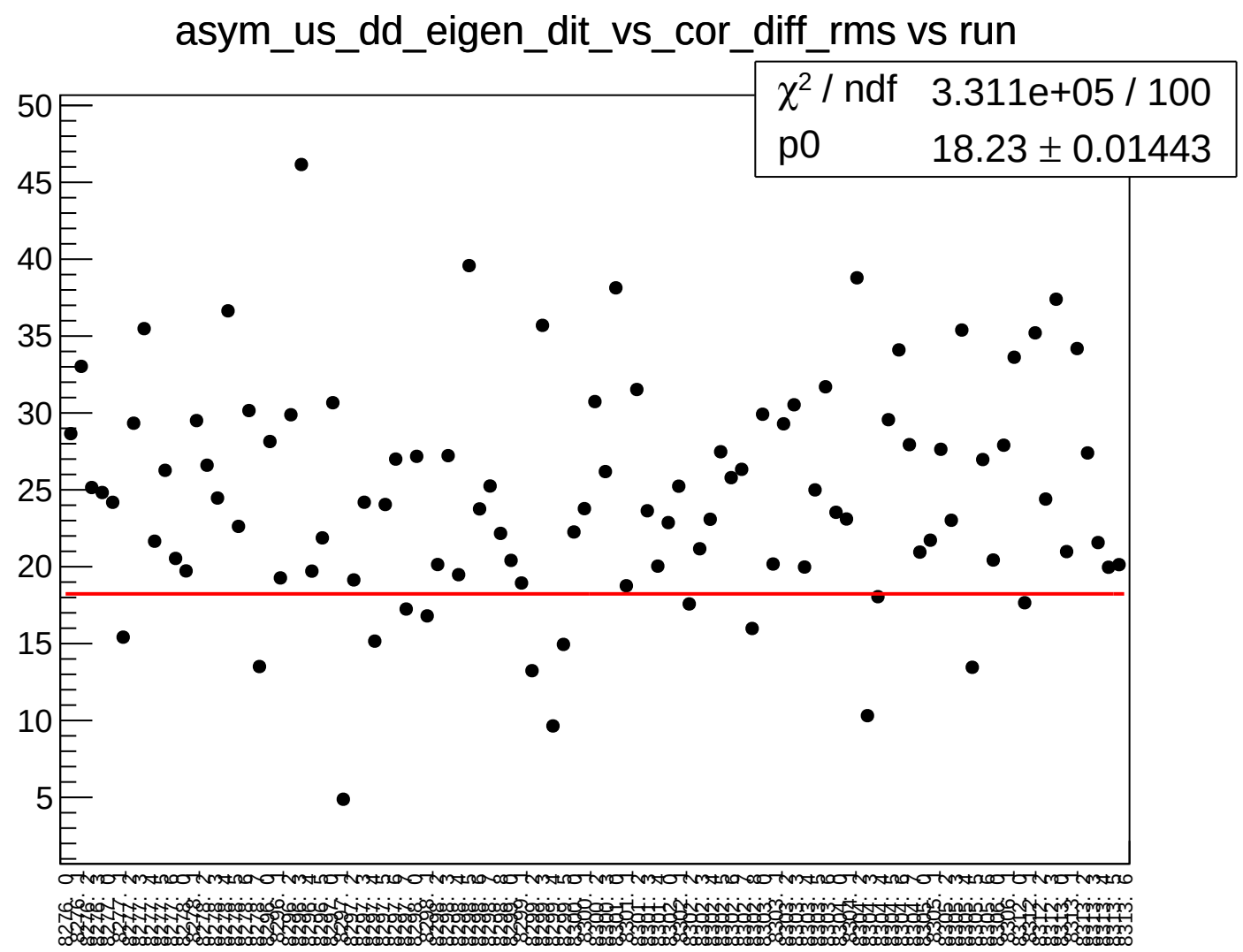

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 6.429e+04 / 100
p0 36.43 ± 0.02669
60
55
50
45
40
35
30
25
20

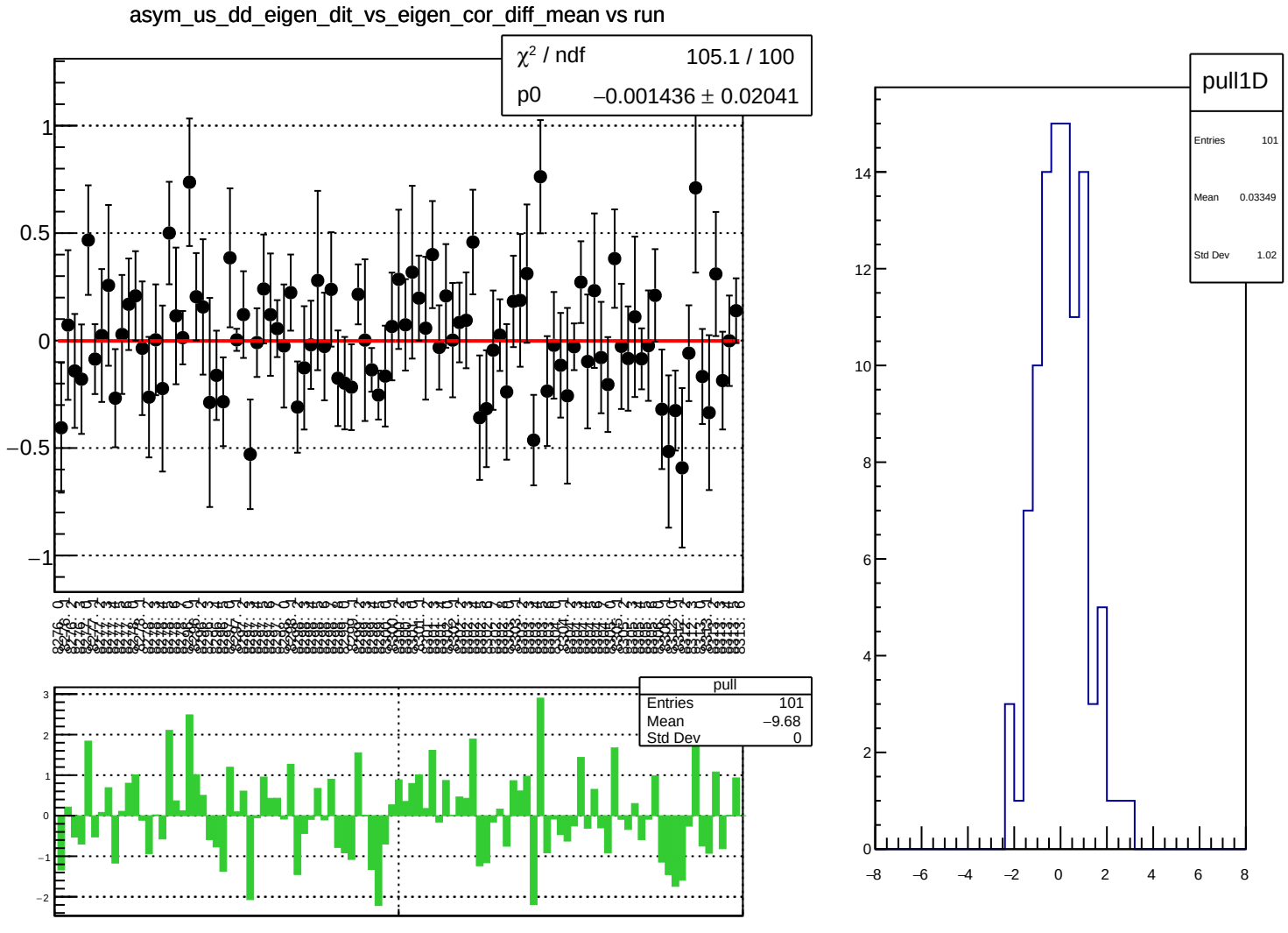

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.08 / 100
p0 5.41e−06 ± 1.873e−06
pull
Entries 101
Mean −163.3
Std Dev 0

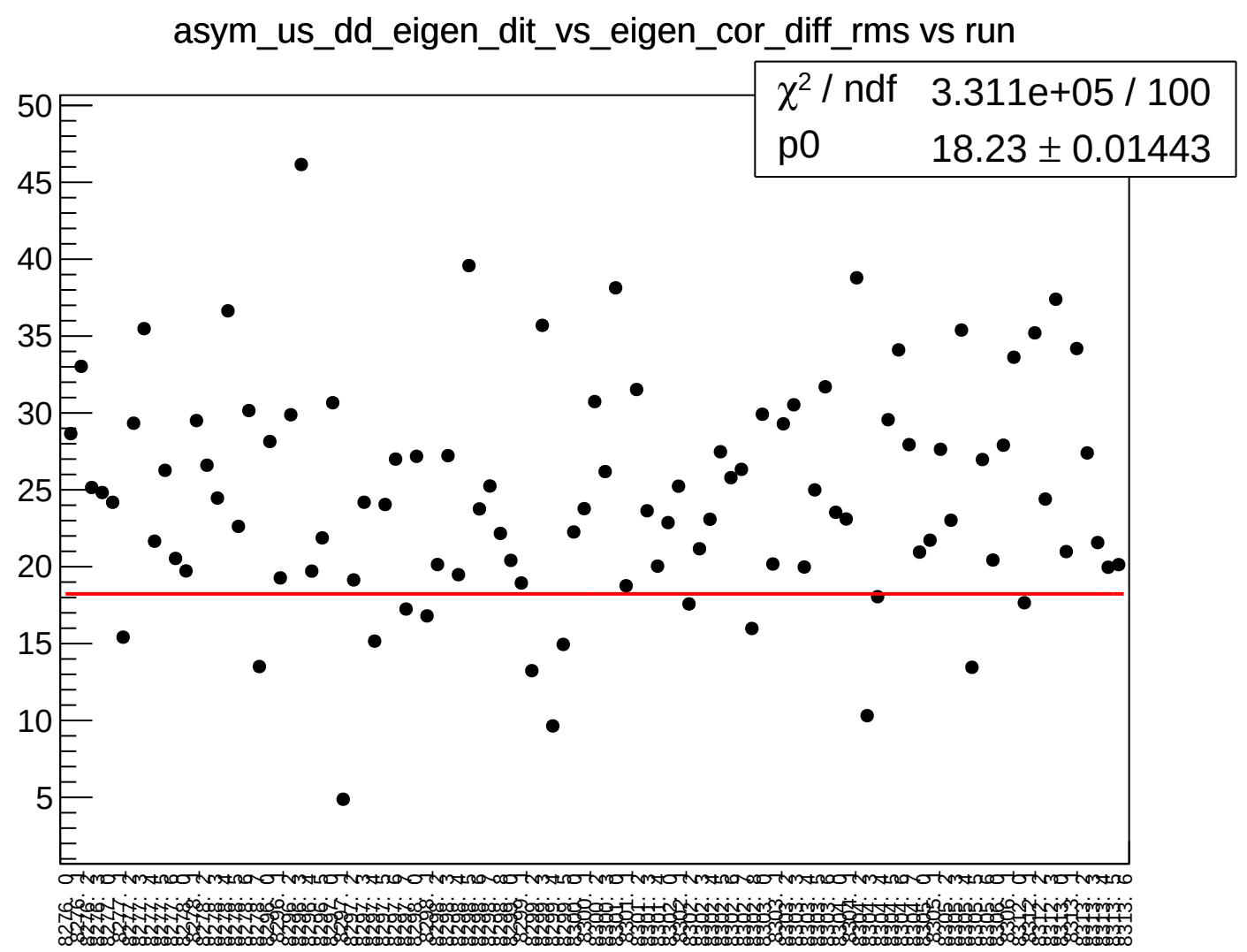

pull1D
Entries 101
Mean −0.02489
Std Dev 0.9388

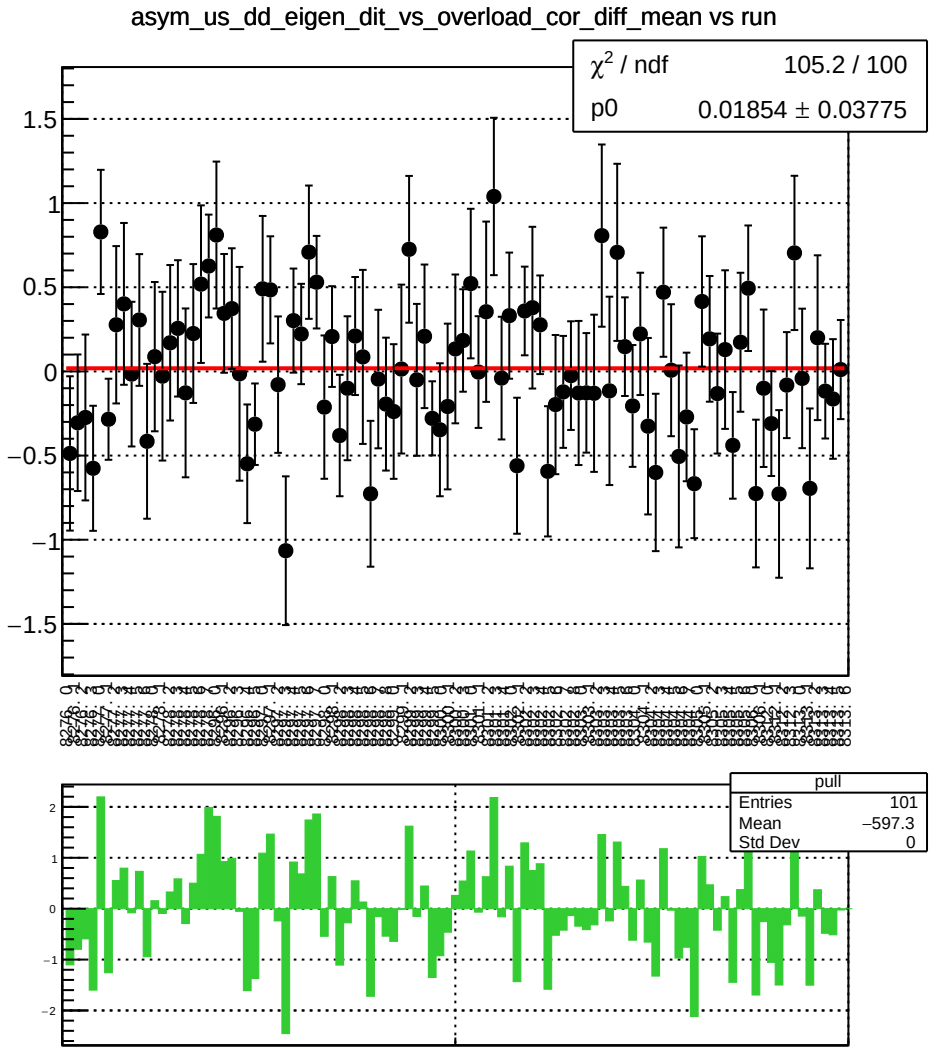

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.352e+04 / 100
p0 0.001793 ± 1.324e−06
0.004
0.0035
0.003
0.0025
0.002
0.0015

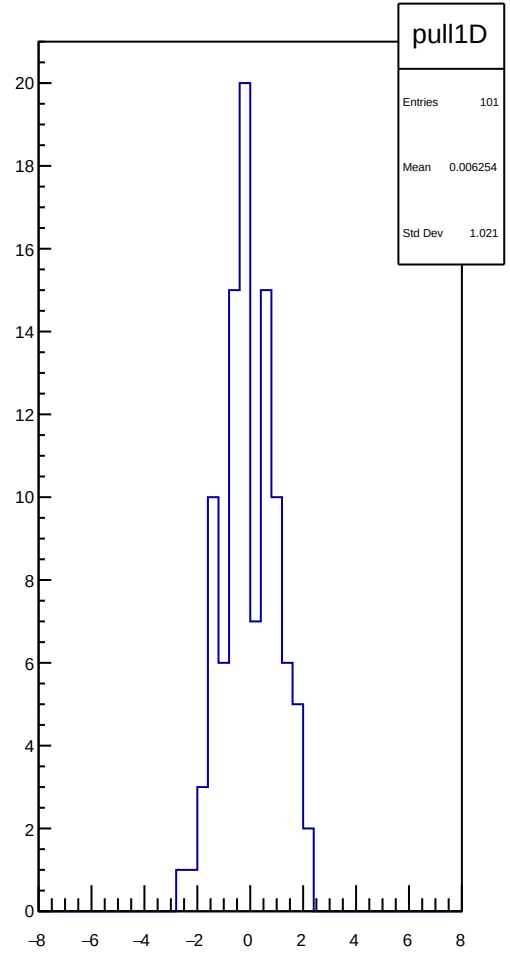

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 105.1 / 100
p0 −0.001436 ± 0.02041
1
0.5
0
−0.5
−1
pull
Entries 101
Mean −9.68
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.03349
Std Dev 1.02
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

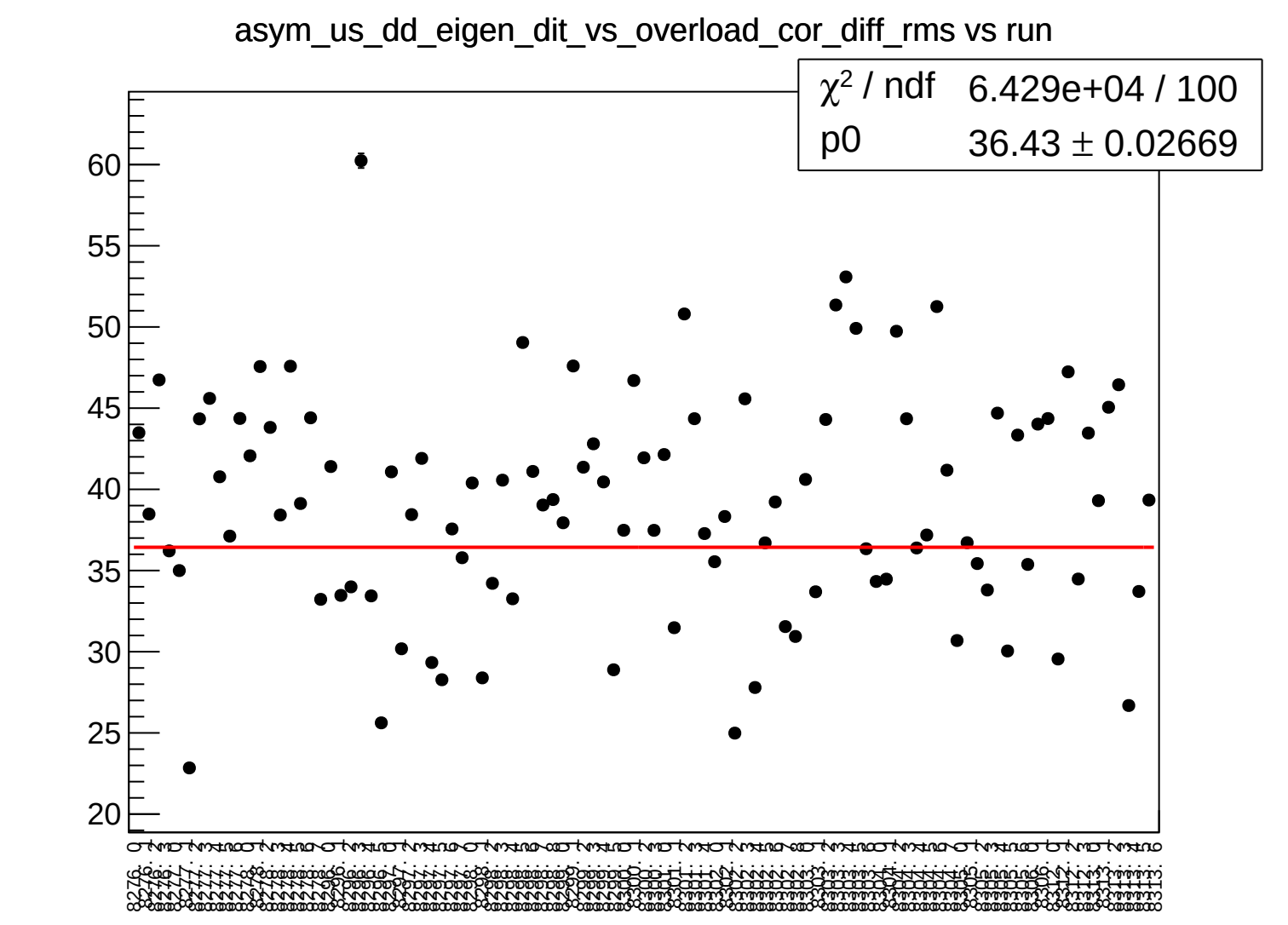

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.311e+05 / 100
p0 18.23 ± 0.01443
50
45
40
35
30
25
20
15
10
5

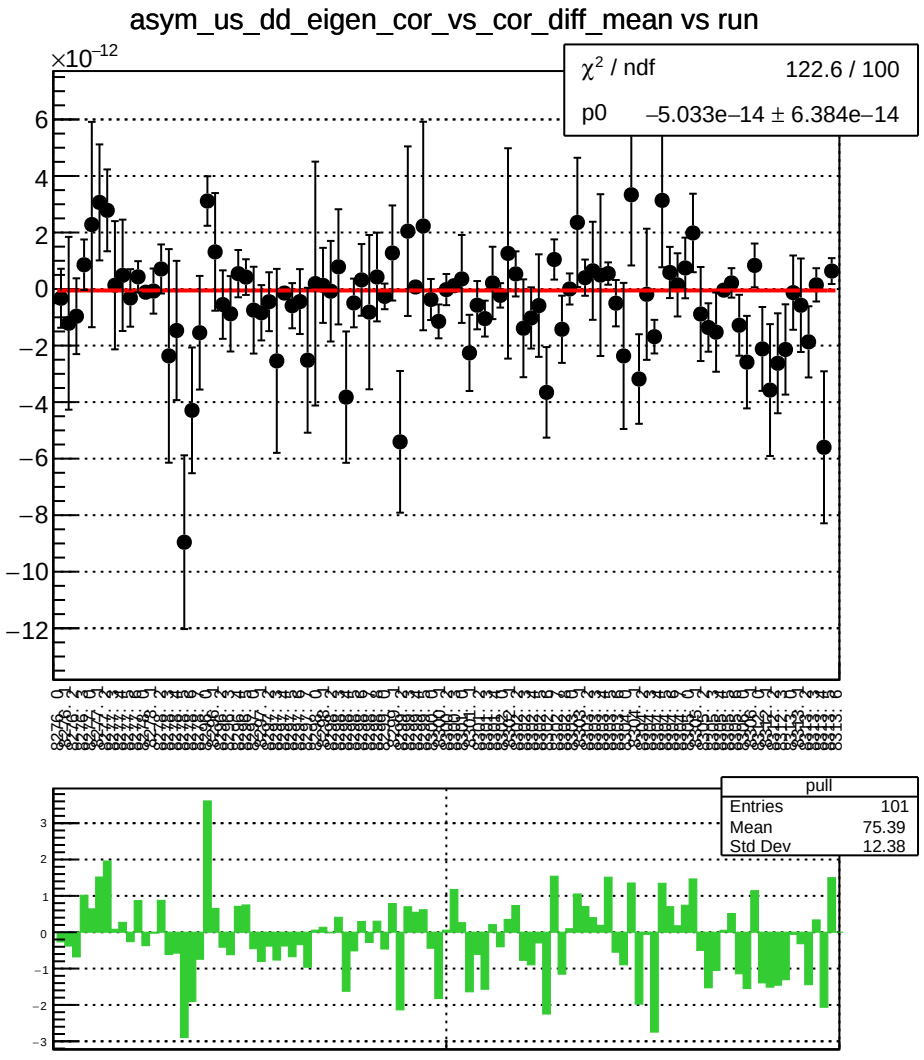

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.1 / 100
p0 −0.001436 ± 0.02041
pull
Entries 101
Mean −9.68
Std Dev 0
pull1D
Entries 101
Mean 0.03349
Std Dev 1.02

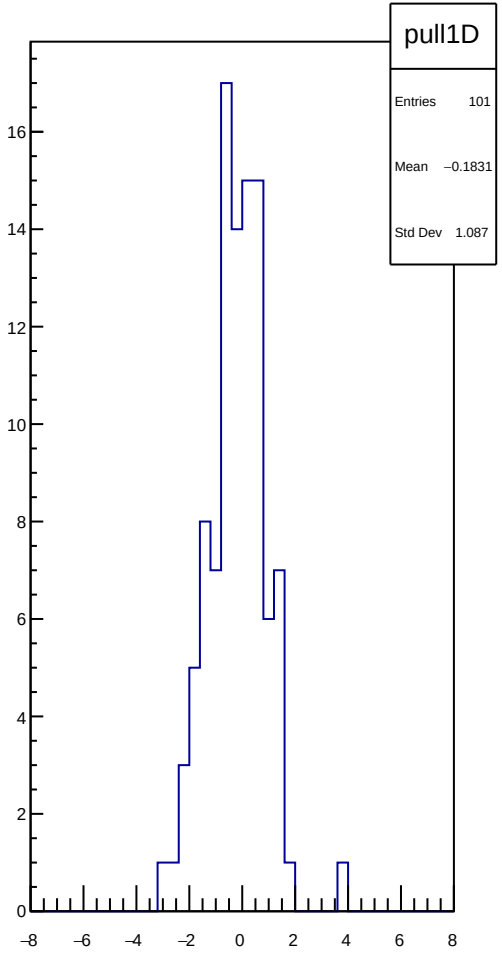

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.311e+05 / 100
p0 18.23 ± 0.01443
50
45
40
35
30
25
20
15
10
5

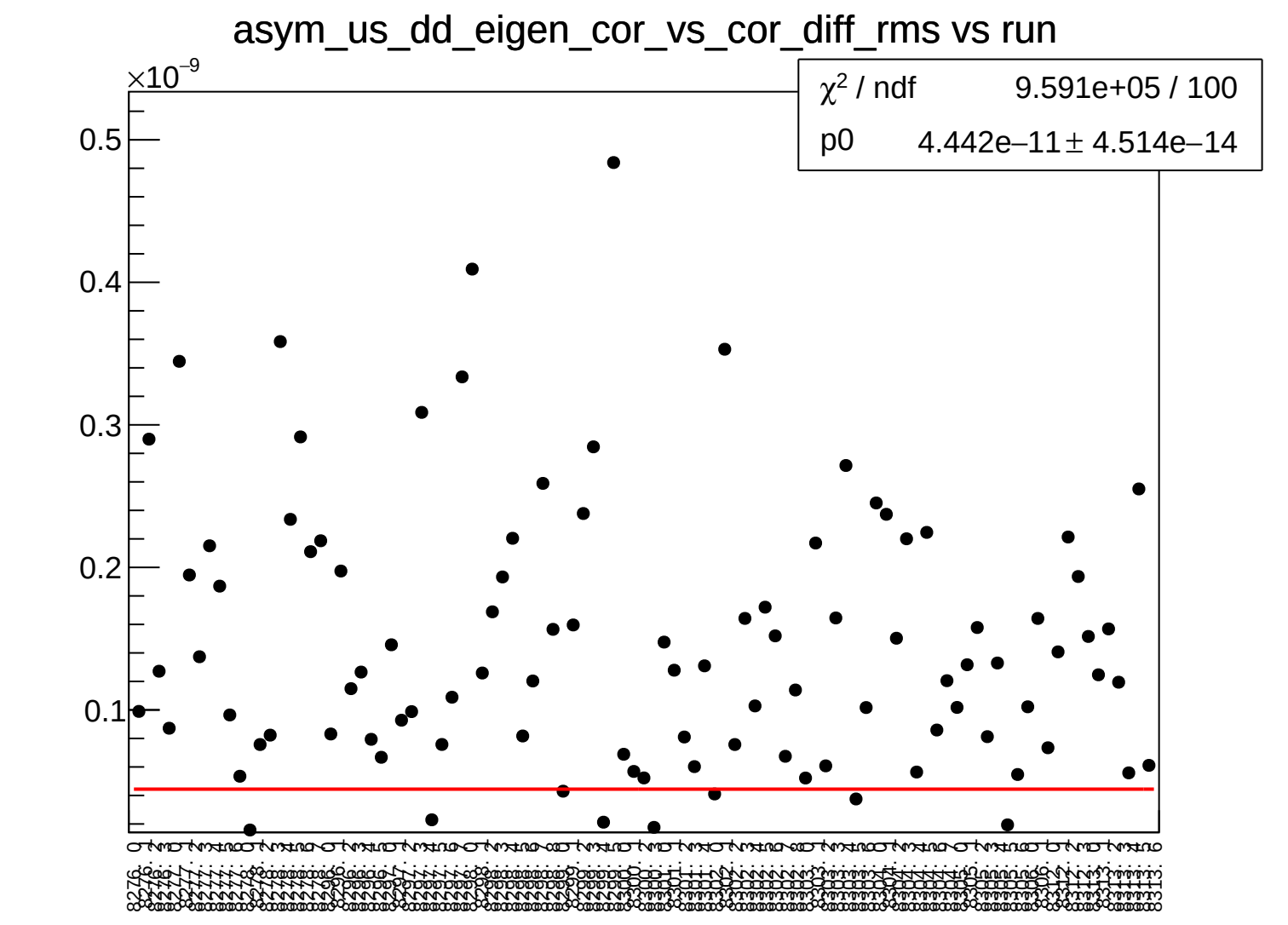

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 105.2 / 100
p0 0.01854 ± 0.03775
pull
Entries 101
Mean −597.3
Std Dev 0

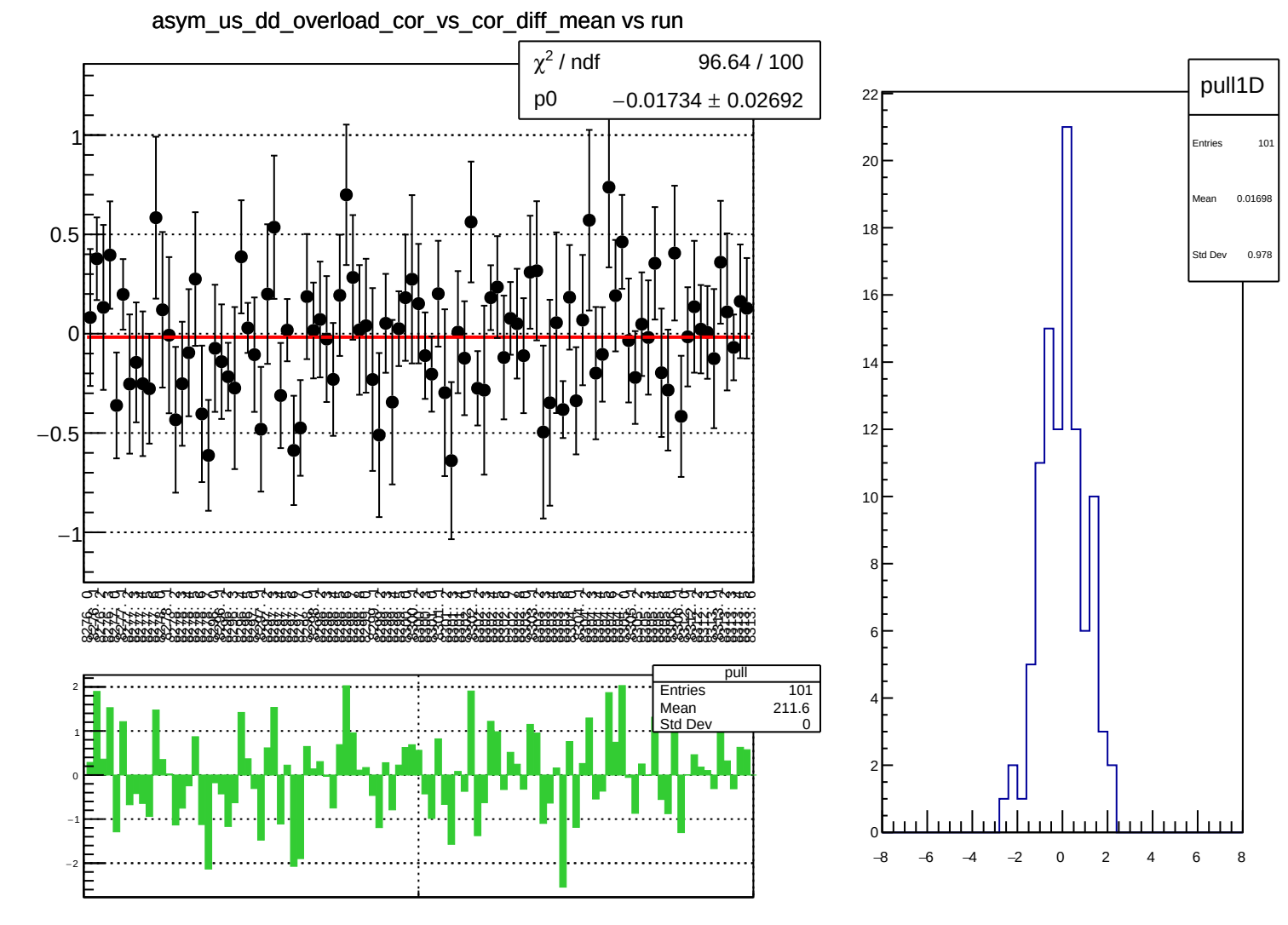

pull1D
Entries 101
Mean 0.006254
Std Dev 1.021

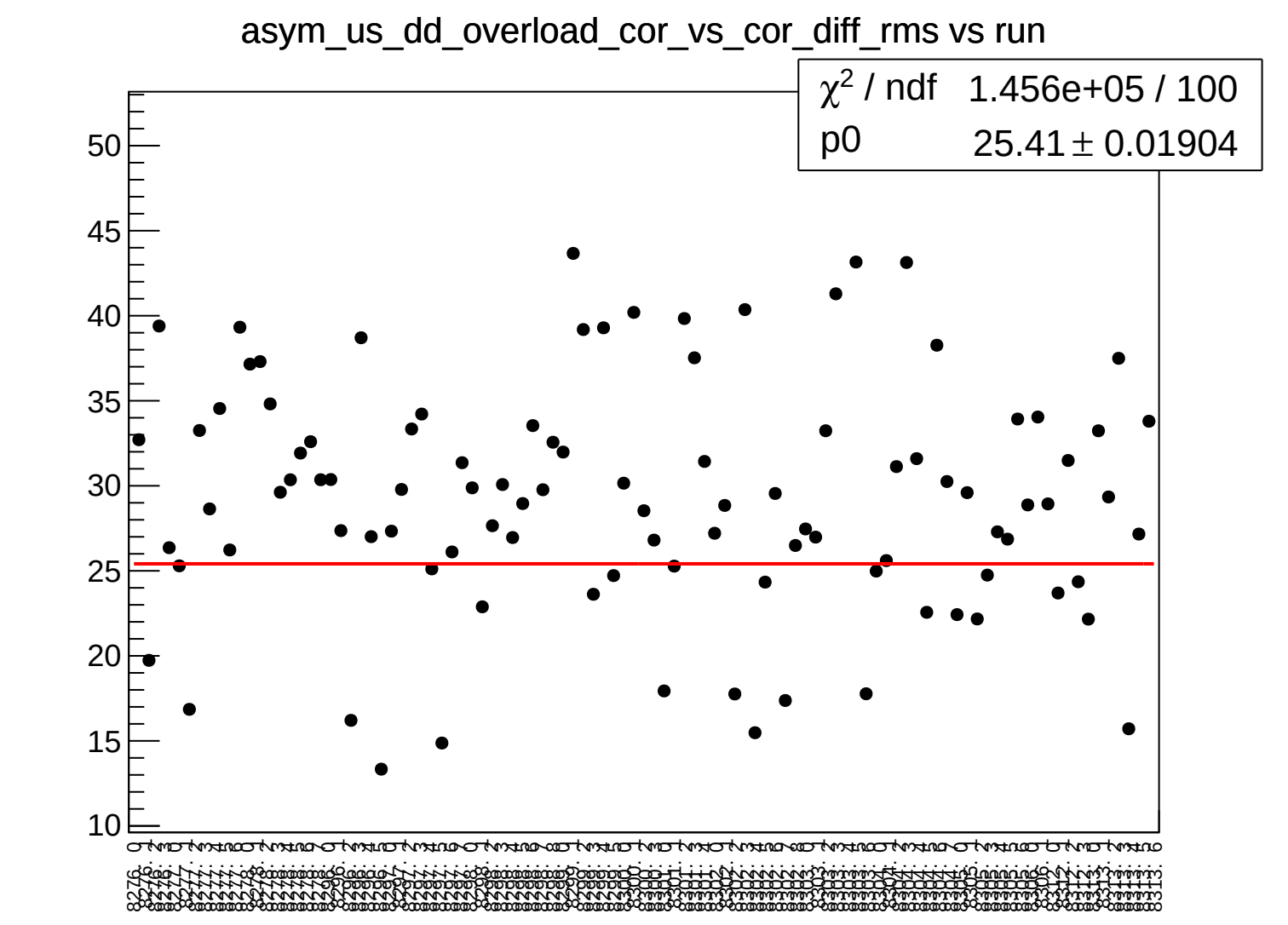

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 6.429e+04 / 100
p0 36.43 ± 0.02669
60
55
50
45
40
35
30
25
20

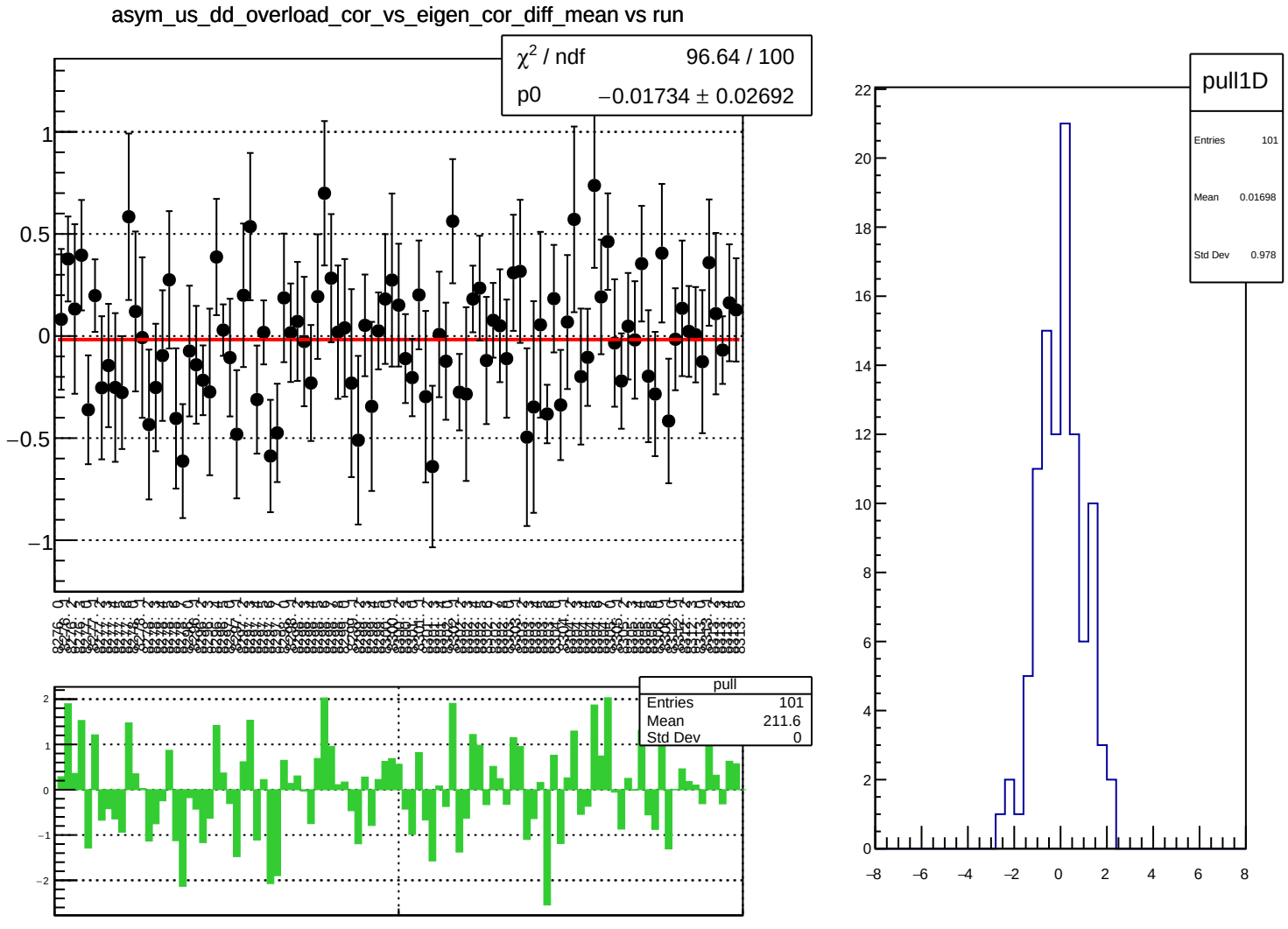

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 122.6 / 100
p0 −5.033e−14 ± 6.384e−14
pull
Entries 101
Mean 75.39
Std Dev 12.38

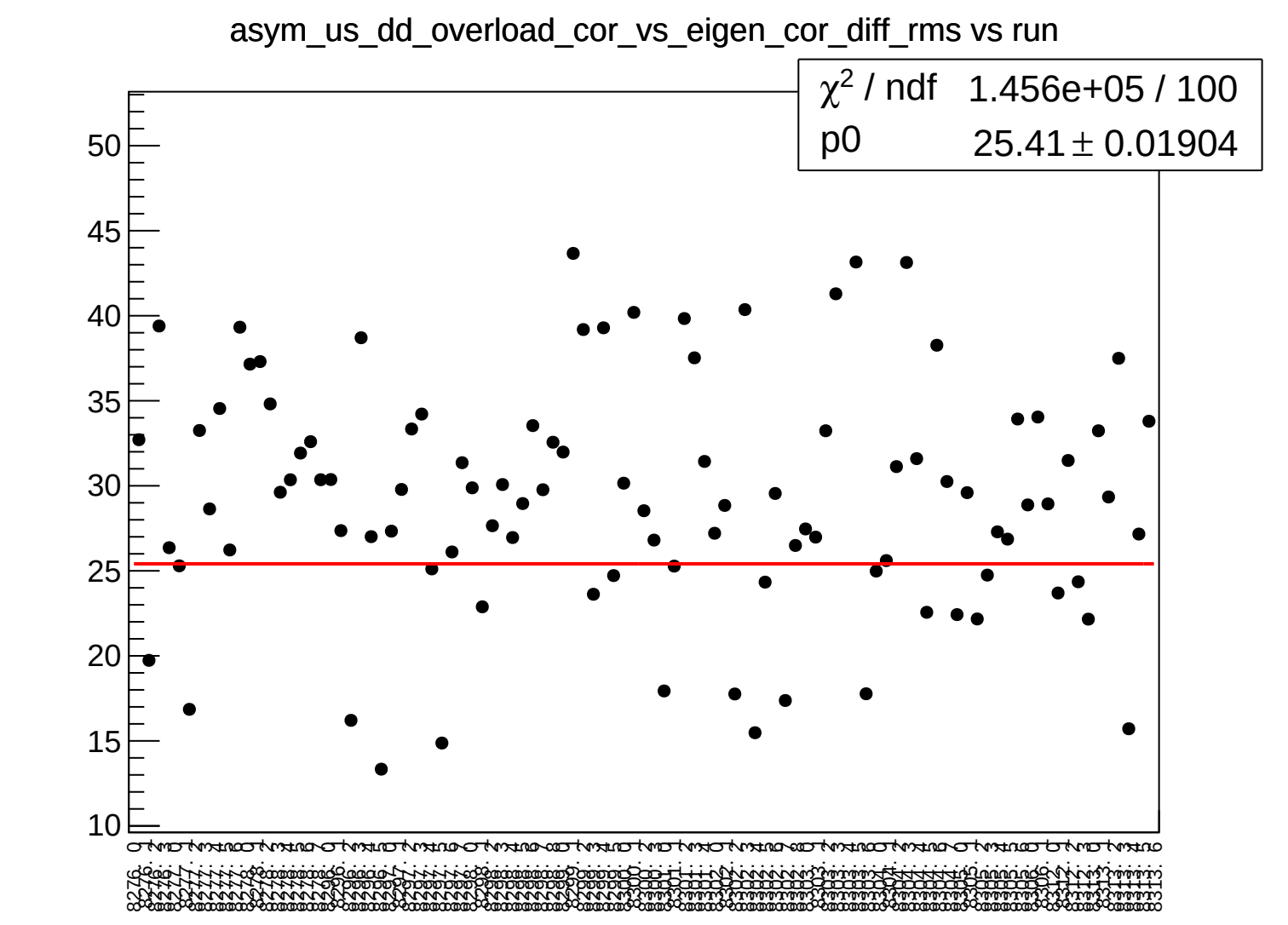

pull1D
Entries 101
Mean −0.1831
Std Dev 1.087

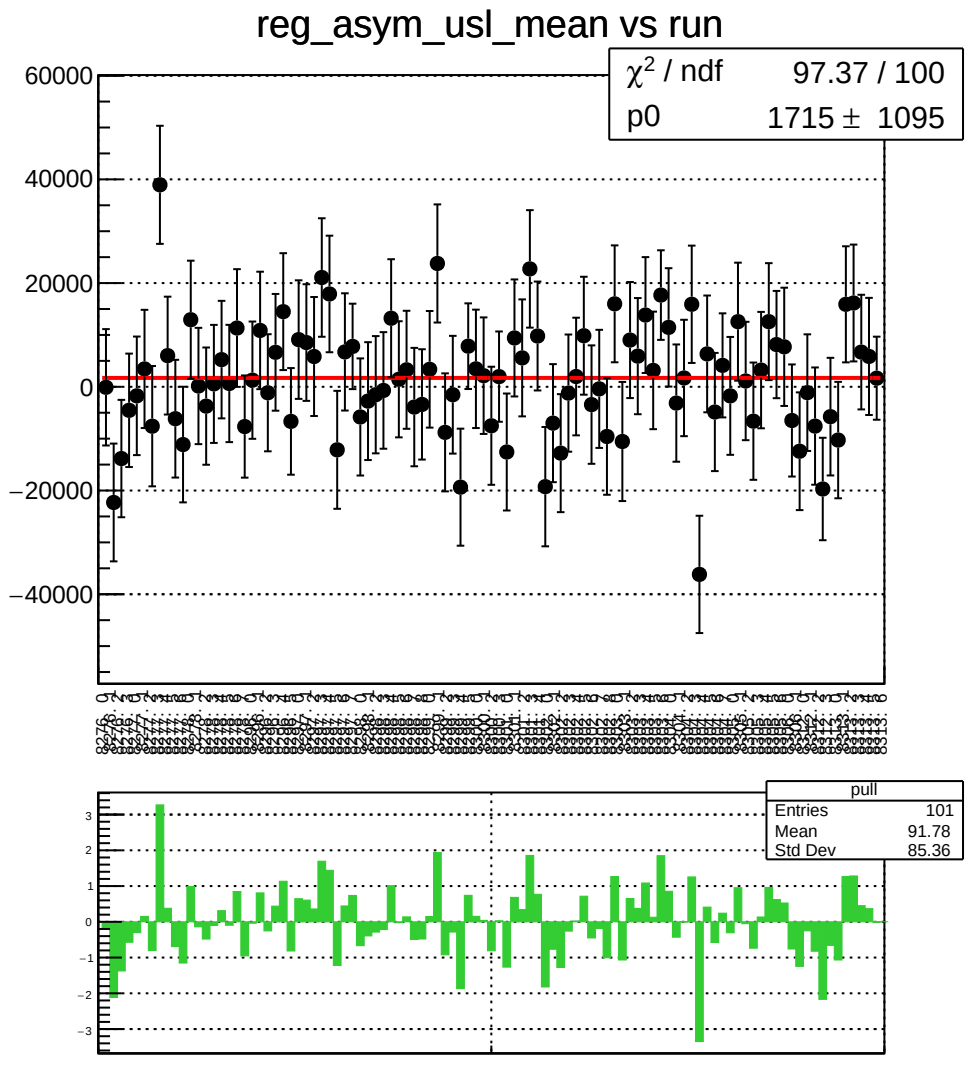

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.591e+05 / 100
p0 4.442e−11 ± 4.514e−14
0.5
0.4
0.3
0.2
0.1

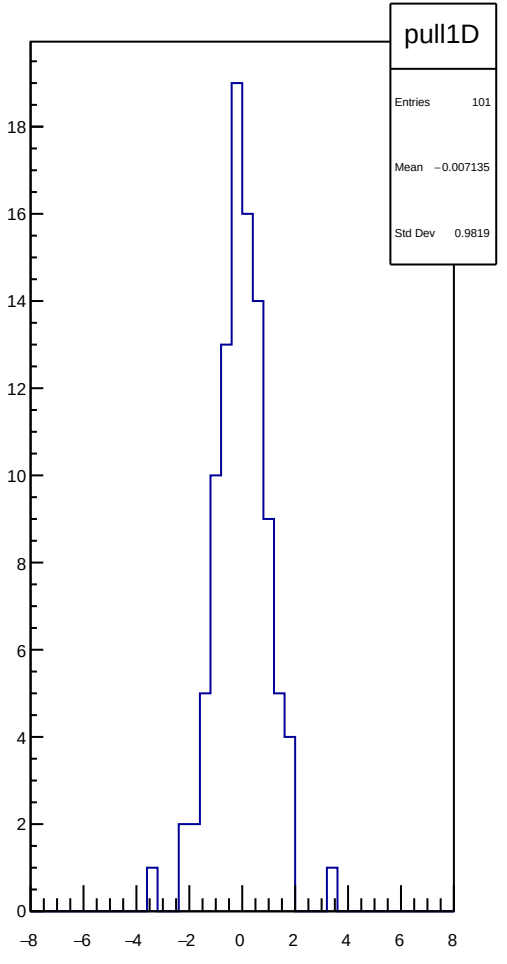

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 96.64 / 100
p0 −0.01734 ± 0.02692
pull
Entries 101
Mean 211.6
Std Dev 0
pull1D
Entries 101
Mean 0.01698
Std Dev 0.978

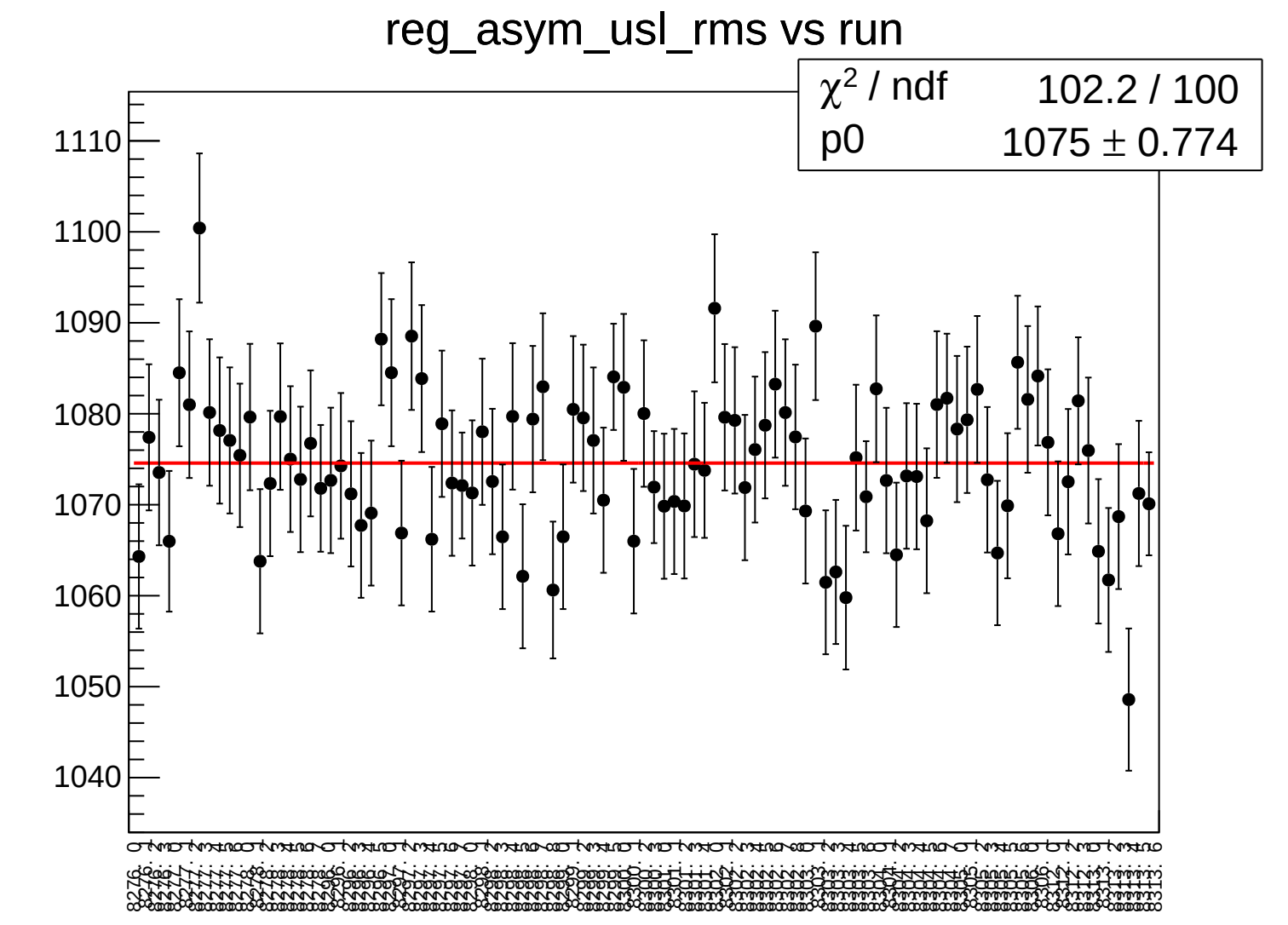

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 1.456e+05 / 100
p0 25.41 ± 0.01904
50
45
40
35
30
25
20
15
10

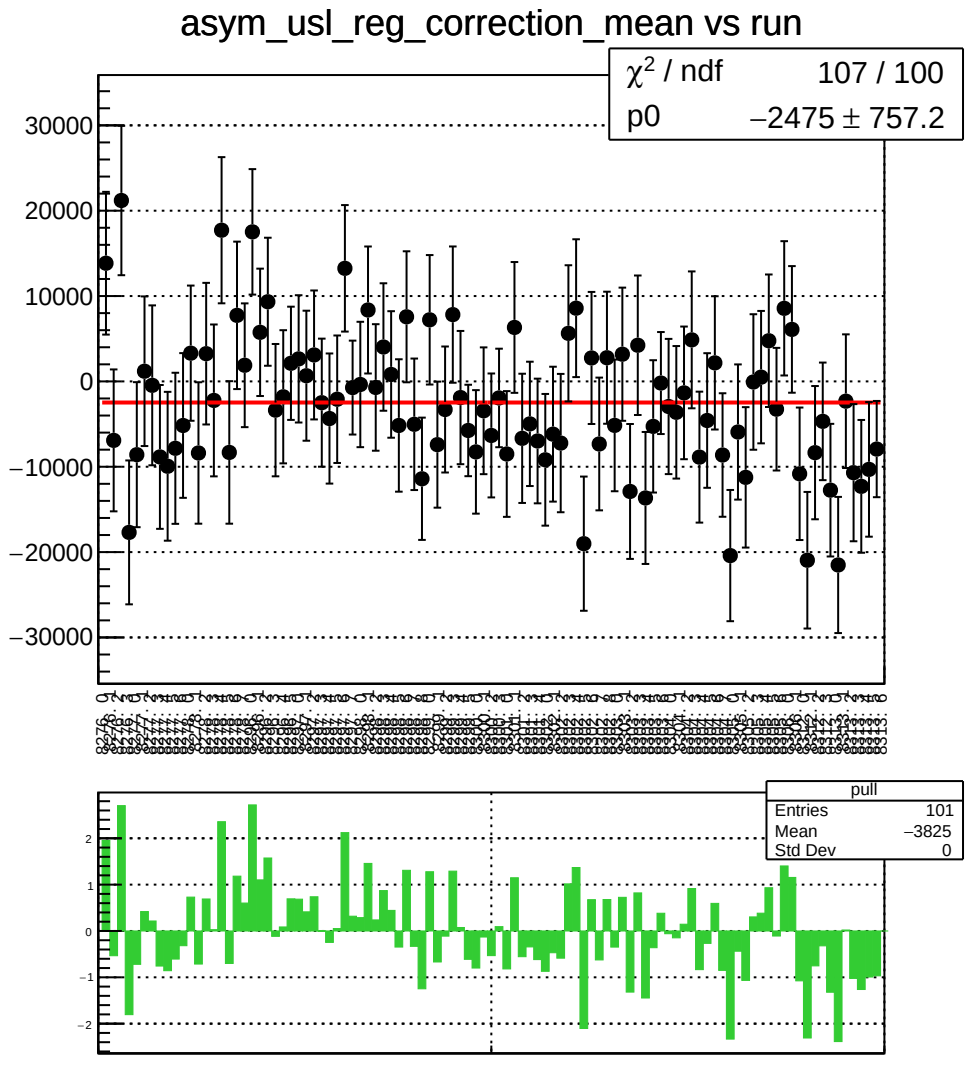

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.64 / 100
p0 −0.01734 ± 0.02692
pull
Entries 101
Mean 211.6
Std Dev 0
pull1D
Entries 101
Mean 0.01698
Std Dev 0.978

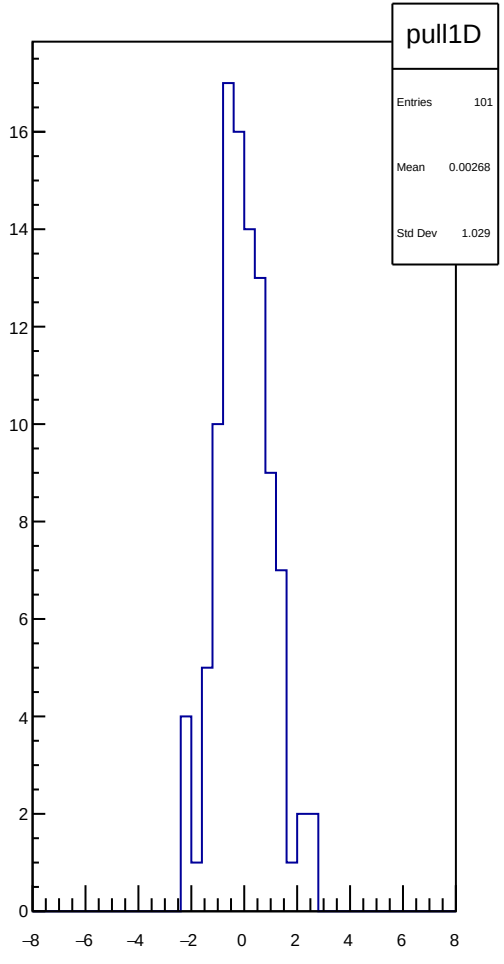

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.456e+05 / 100
p0 25.41 ± 0.01904
50
45
40
35
30
25
20
15
10

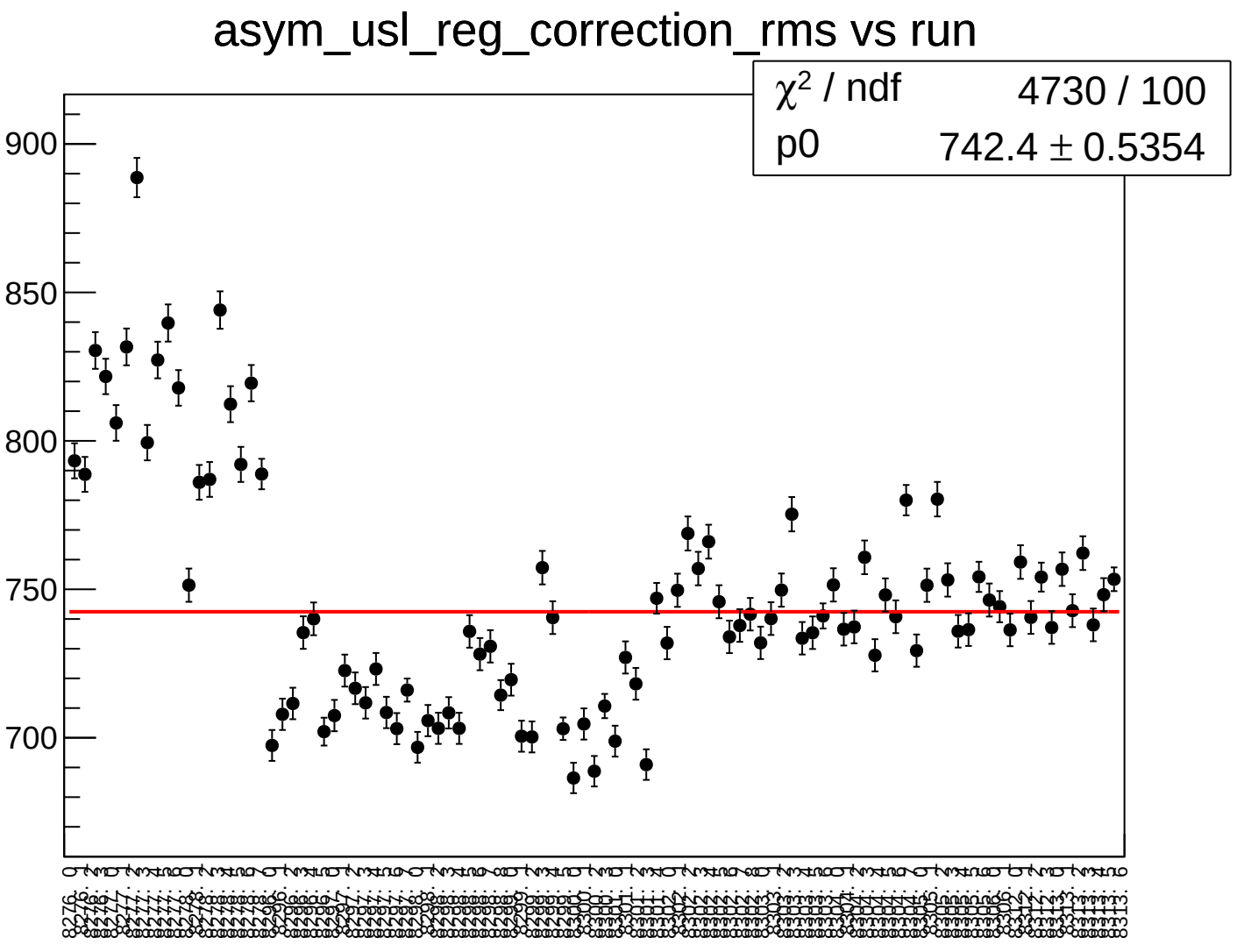

reg_asym_usl_mean vs run
χ² / ndf 97.37 / 100
p0 1715 ± 1095
60000
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 91.78
Std Dev 85.36
3
2
1
0
−1
−2
−3

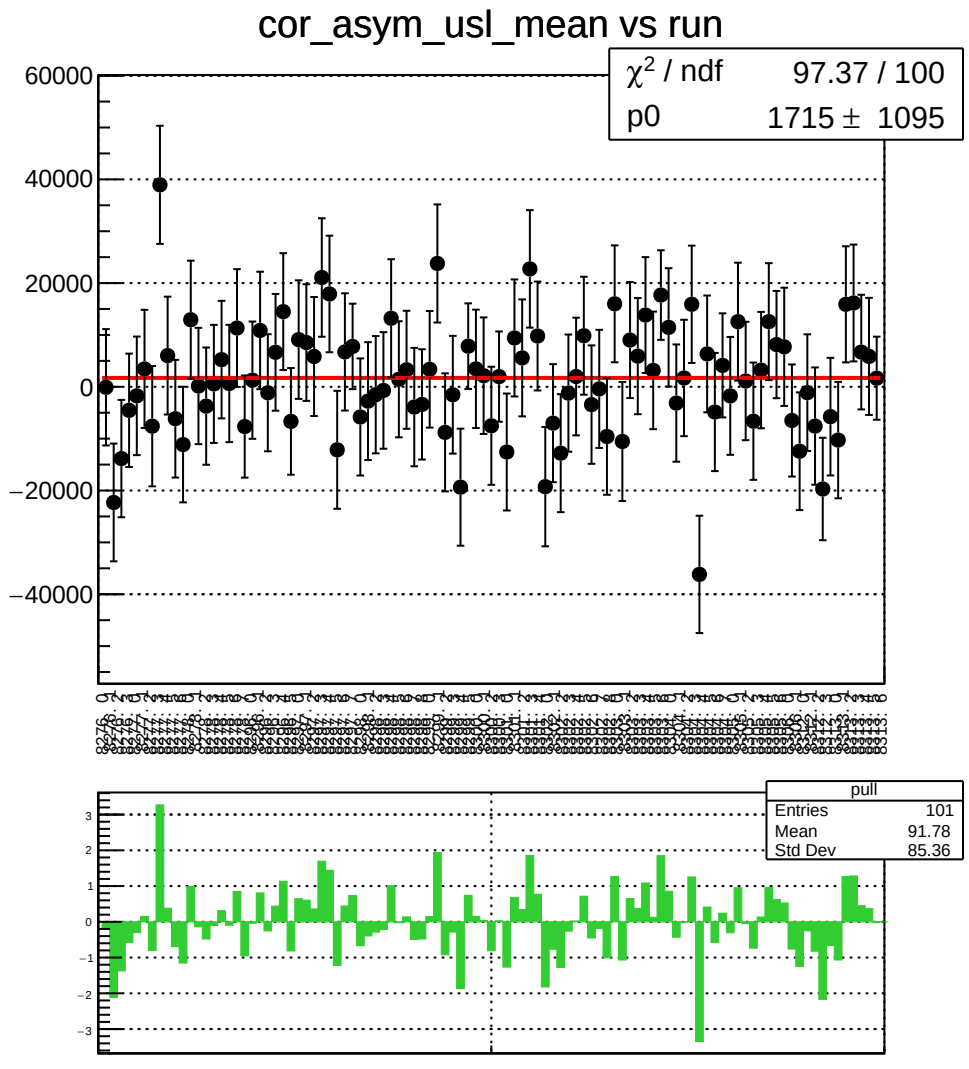

pull1D
Entries 101
Mean −0.007135
Std Dev 0.9819
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

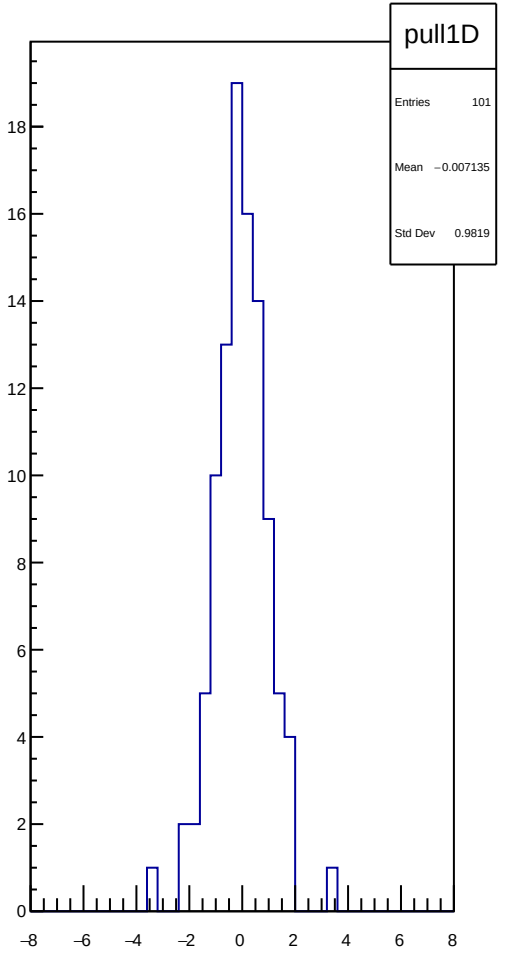

reg_asym_usl_rms vs run
χ² / ndf 102.2 / 100
p0 1075 ± 0.774
1110
1100
1090
1080
1070
1060
1050
1040

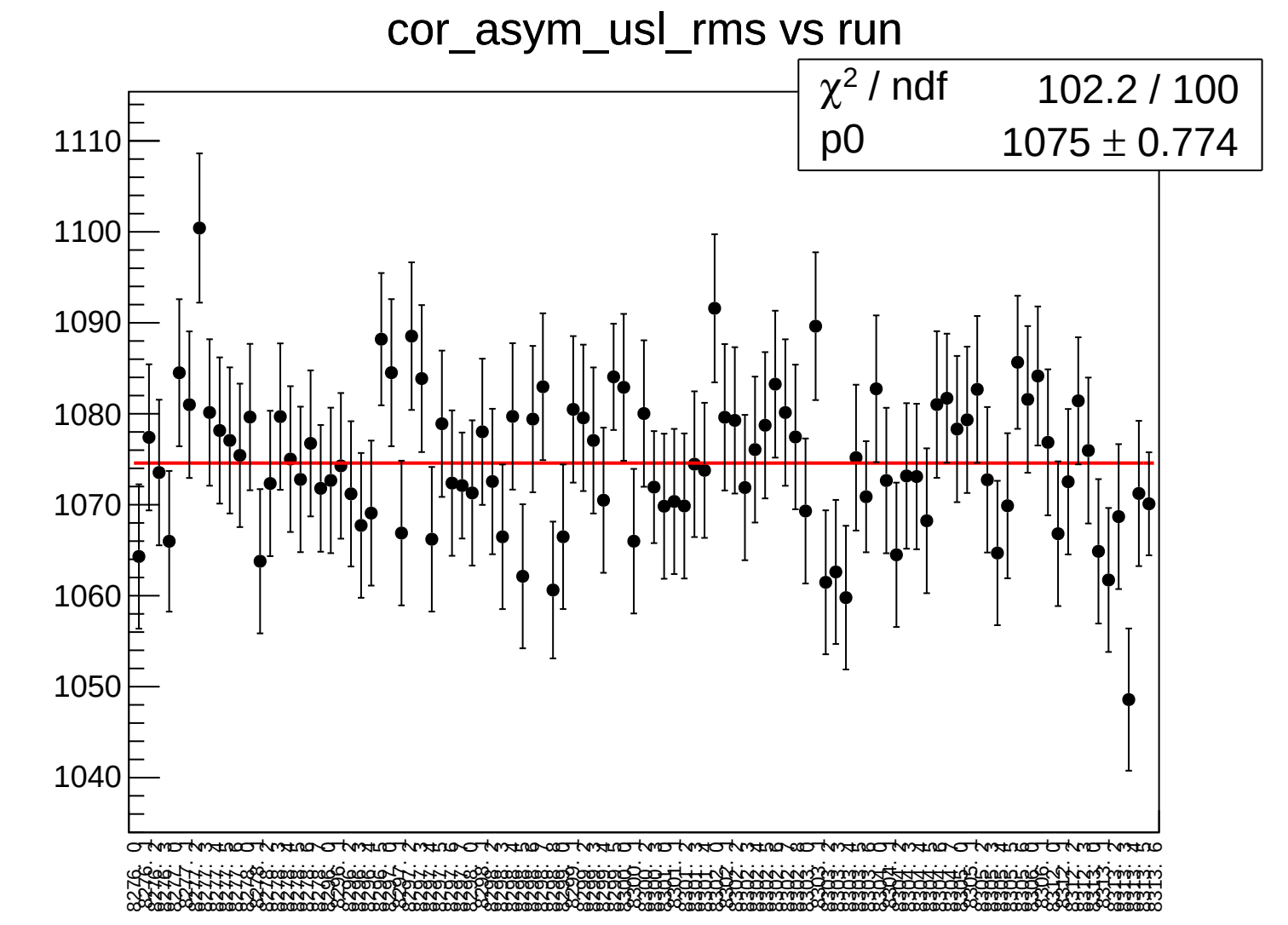

asym_usl_reg_correction_mean vs run
χ² / ndf 107 / 100
p0 −2475 ± 757.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 101
Mean −3825
Std Dev 0
2
1
0
−1
−2

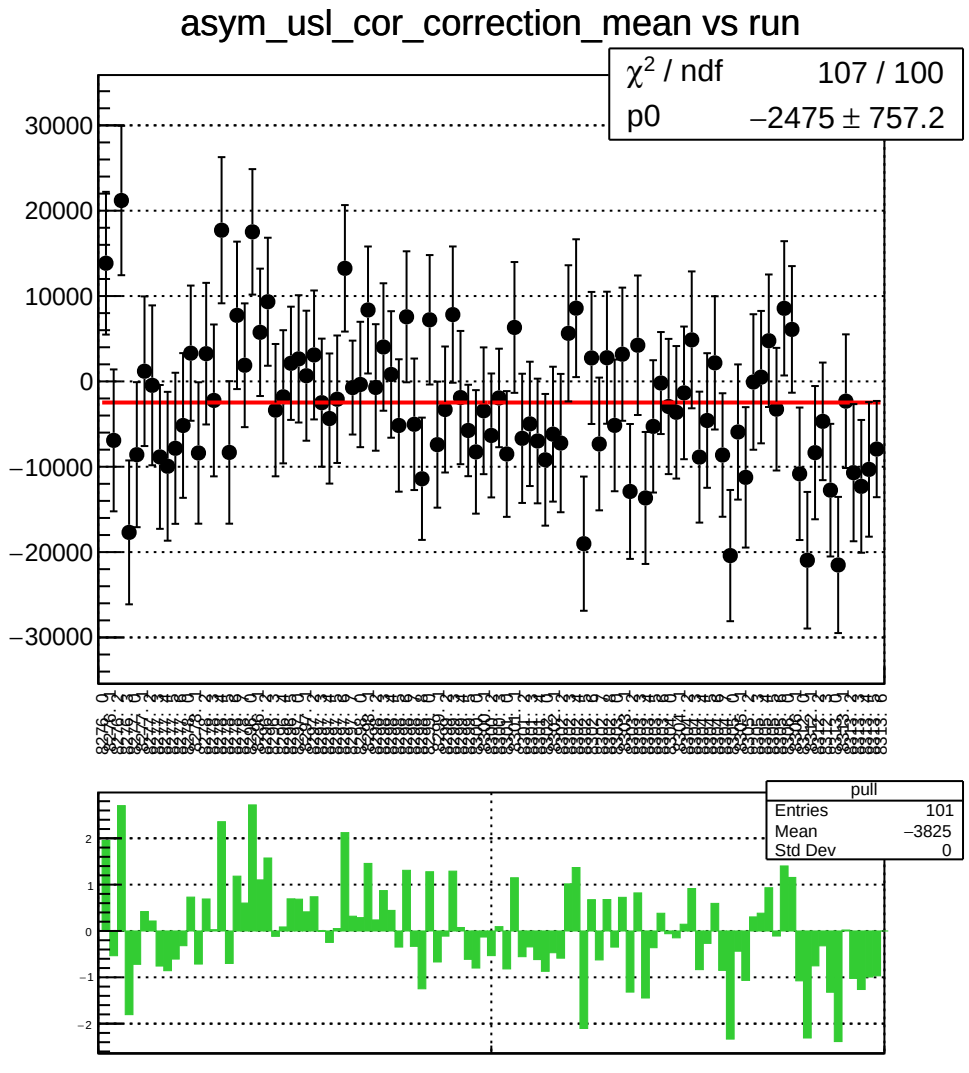

pull1D
Entries 101
Mean 0.00268
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

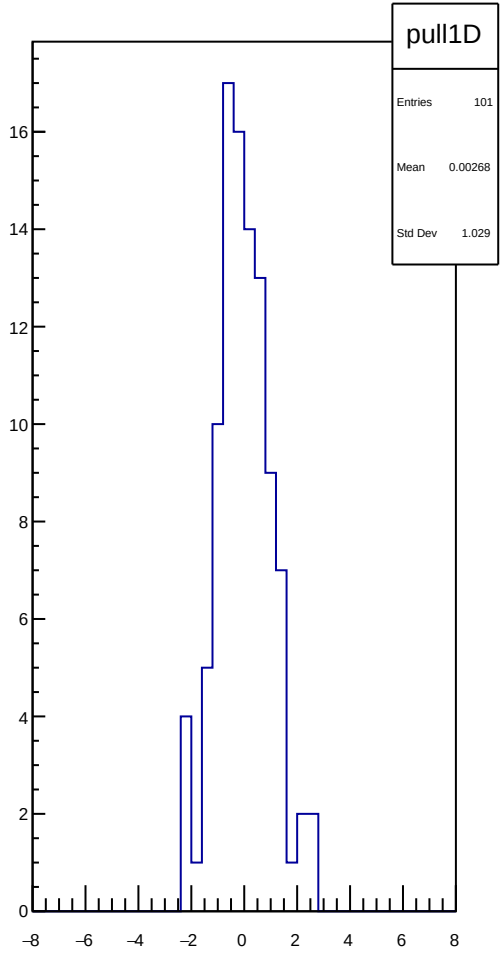

asym_usl_reg_correction_rms vs run
χ² / ndf 4730 / 100
p0 742.4 ± 0.5354
900
850
800
750
700

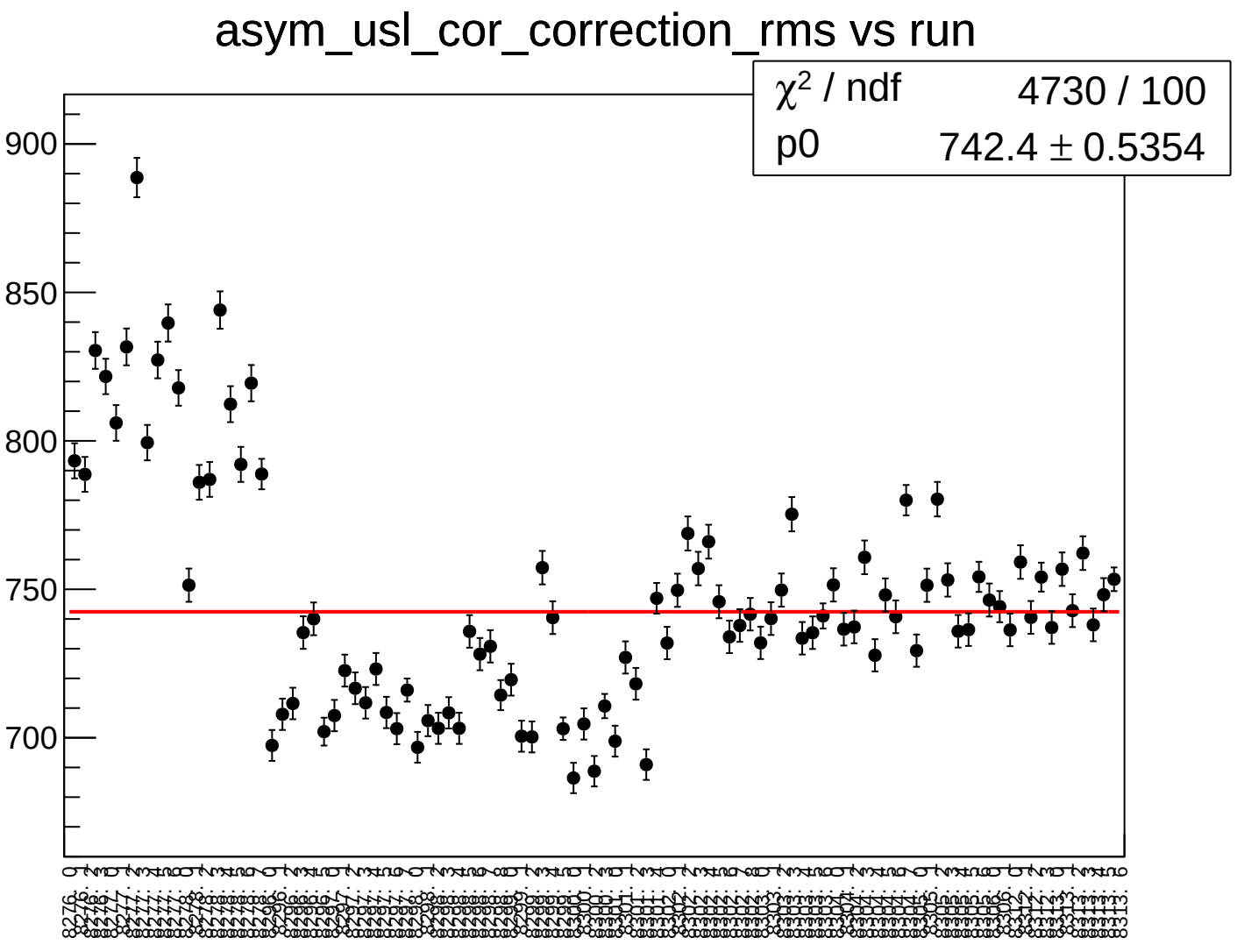

cor_asym_usl_mean vs run
χ² / ndf 97.37 / 100
p0 1715 ± 1095
60000
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 91.78
Std Dev 85.36
3
2
1
0
−1
−2
−3

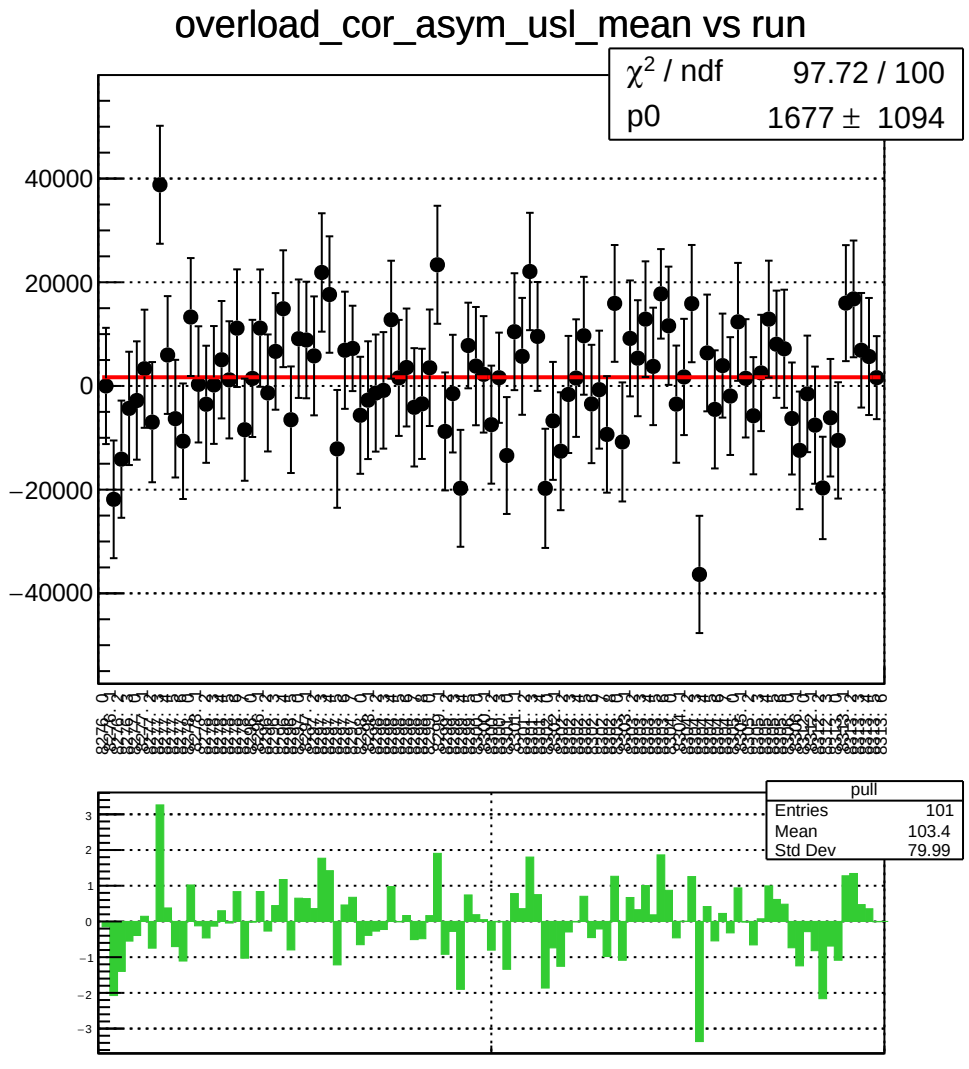

pull1D
Entries 101
Mean −0.007135
Std Dev 0.9819
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

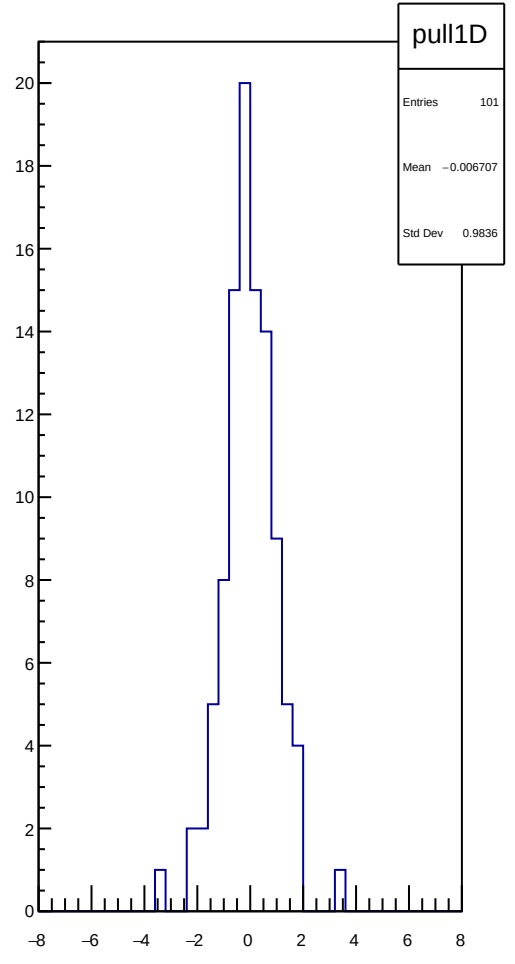

cor_asym_usl_rms vs run
χ^2 / ndf 102.2 / 100
p0 1075 ± 0.774
1110
1100
1090
1080
1070
1060
1050
1040

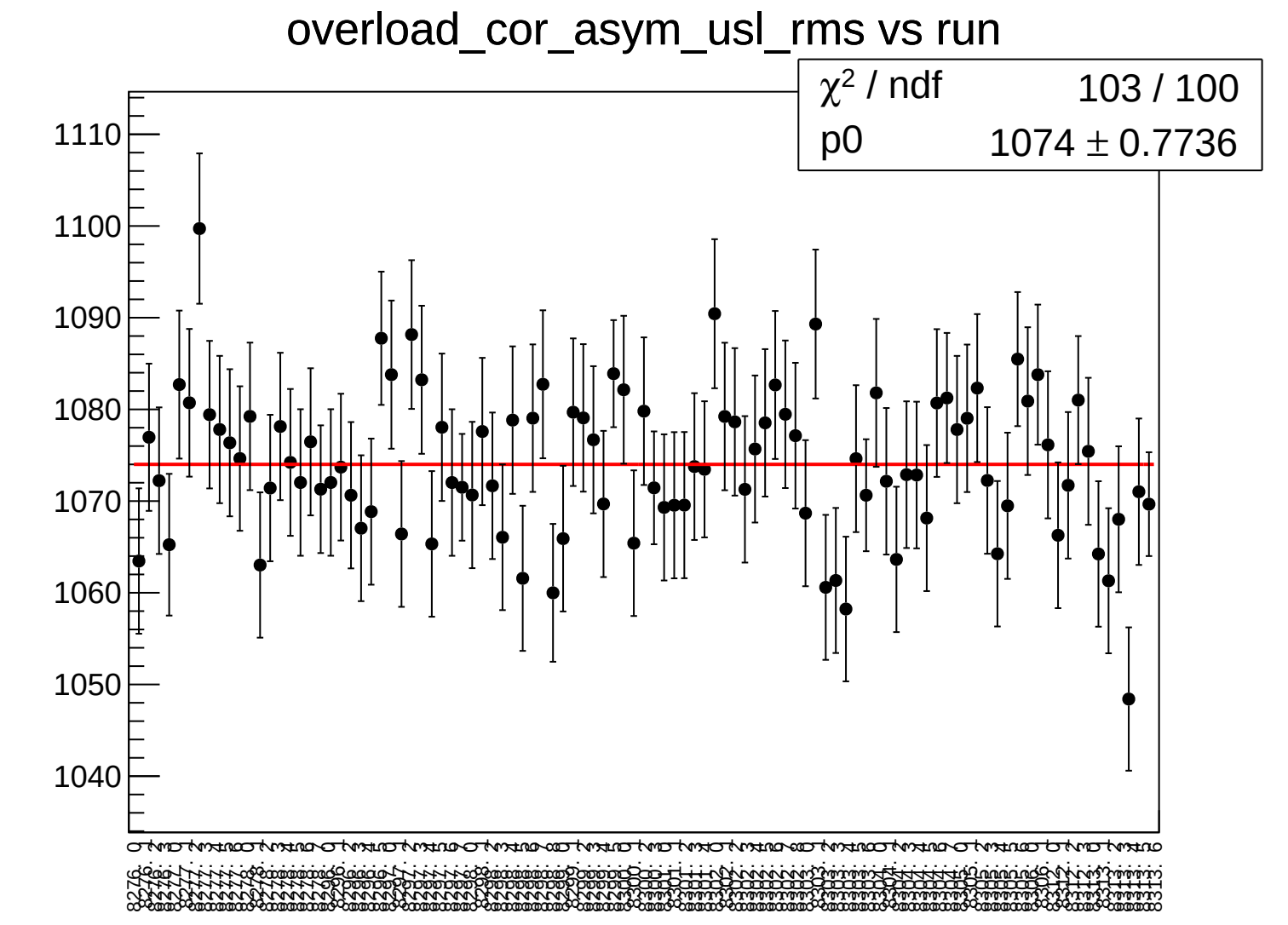

asym_usl_cor_correction_mean vs run
χ² / ndf 107 / 100
p0 −2475 ± 757.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 101
Mean −3825
Std Dev 0
2
1
0
−1
−2

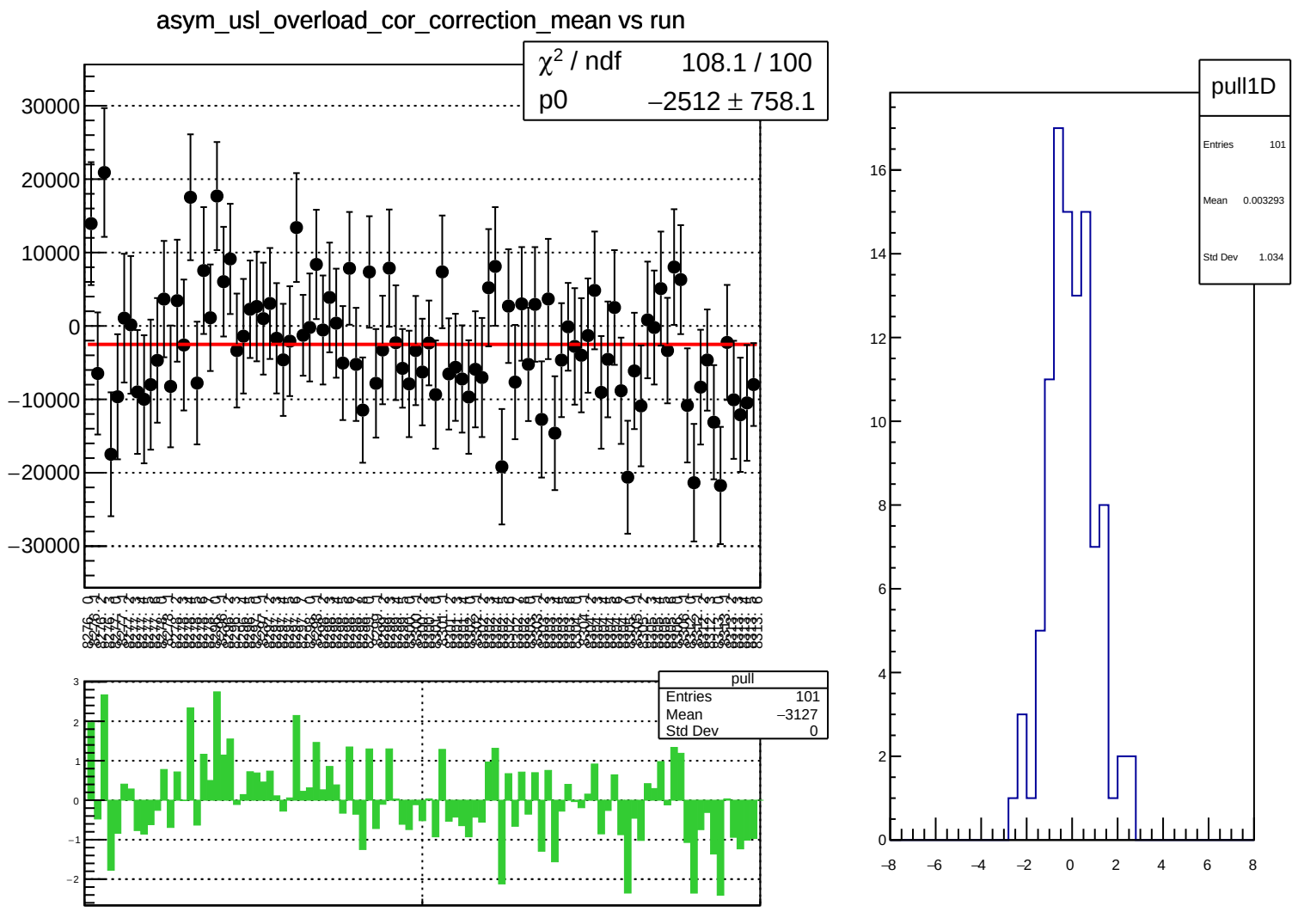

pull1D
Entries 101
Mean 0.00268
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

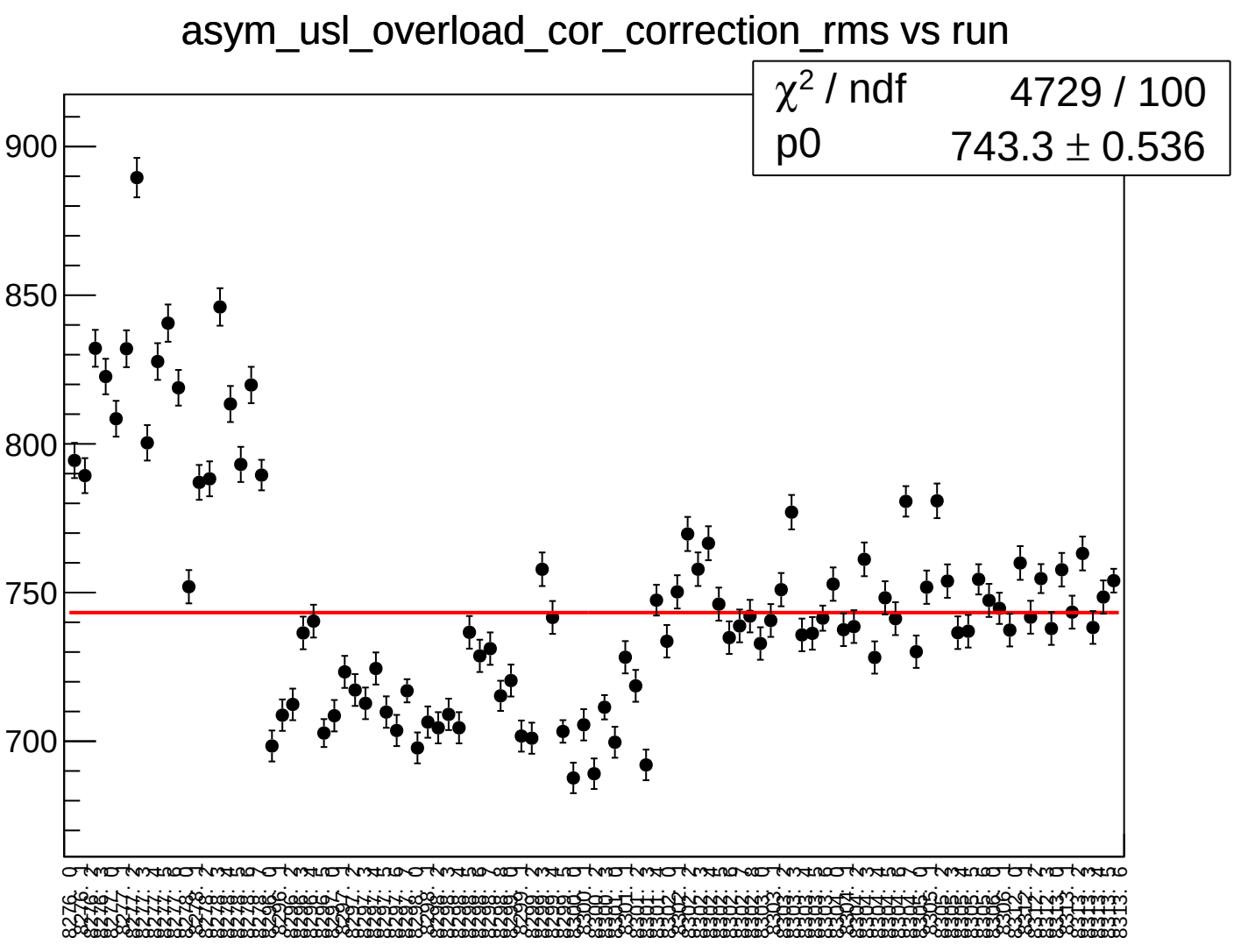

asym_usl_cor_correction_rms vs run
χ² / ndf 4730 / 100
p0 742.4 ± 0.5354
900
850
800
750
700

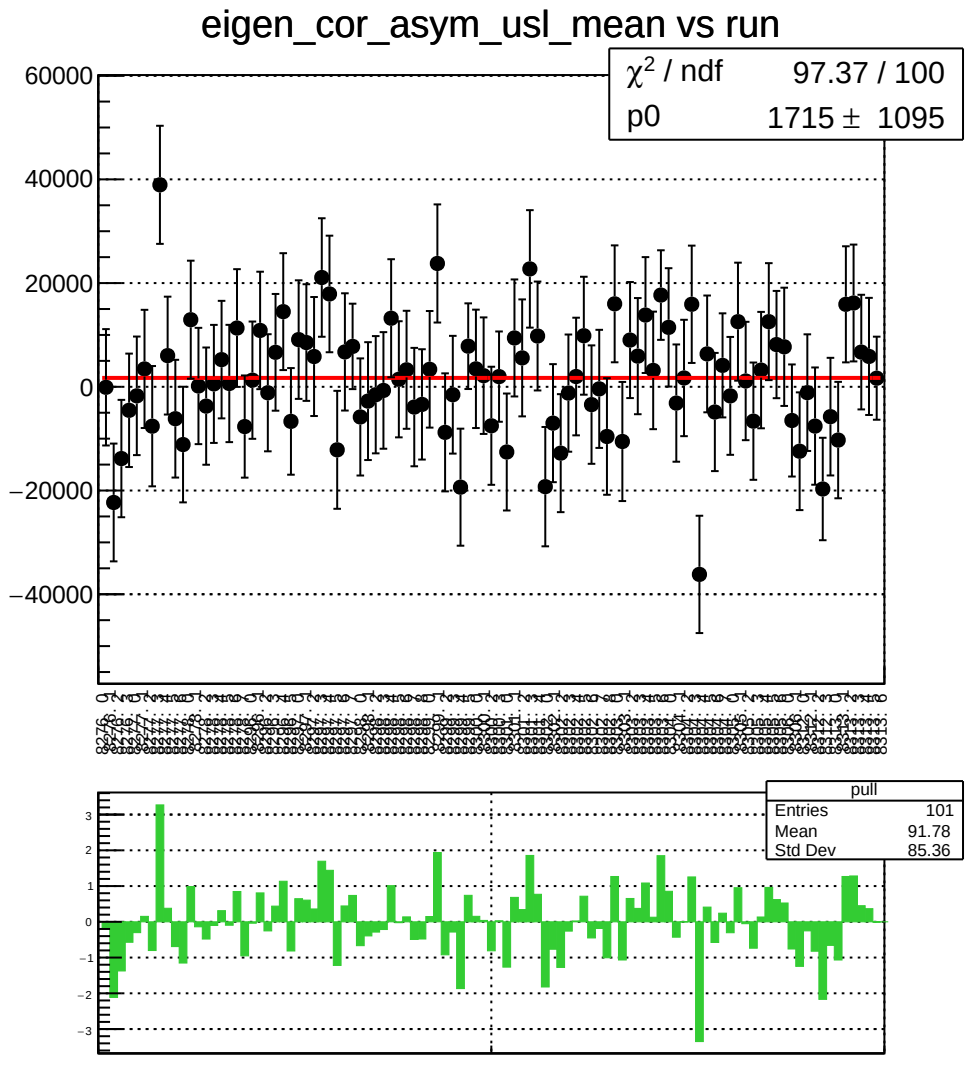

overload_cor_asym_usl_mean vs run
χ² / ndf 97.72 / 100
p0 1677 ± 1094
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 103.4
Std Dev 79.99
3
2
1
0
−1
−2
−3

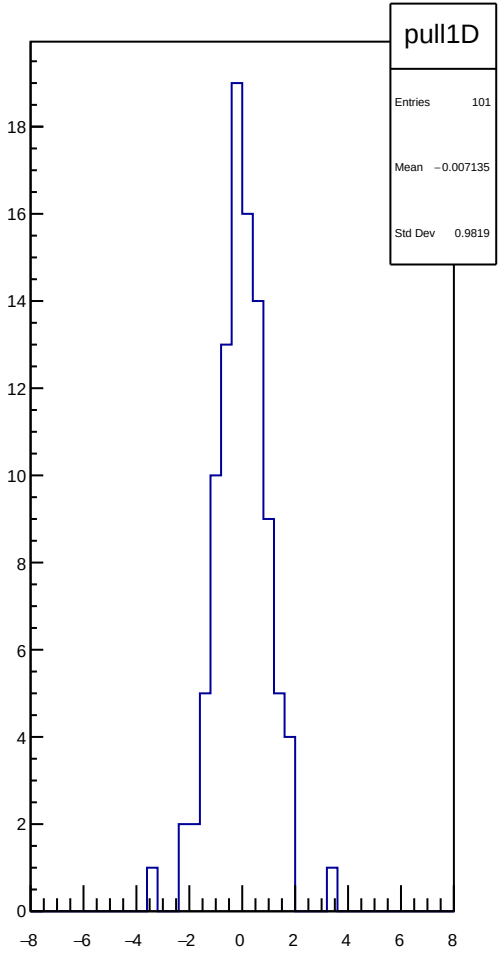

pull1D
Entries 101
Mean −0.006707
Std Dev 0.9836
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

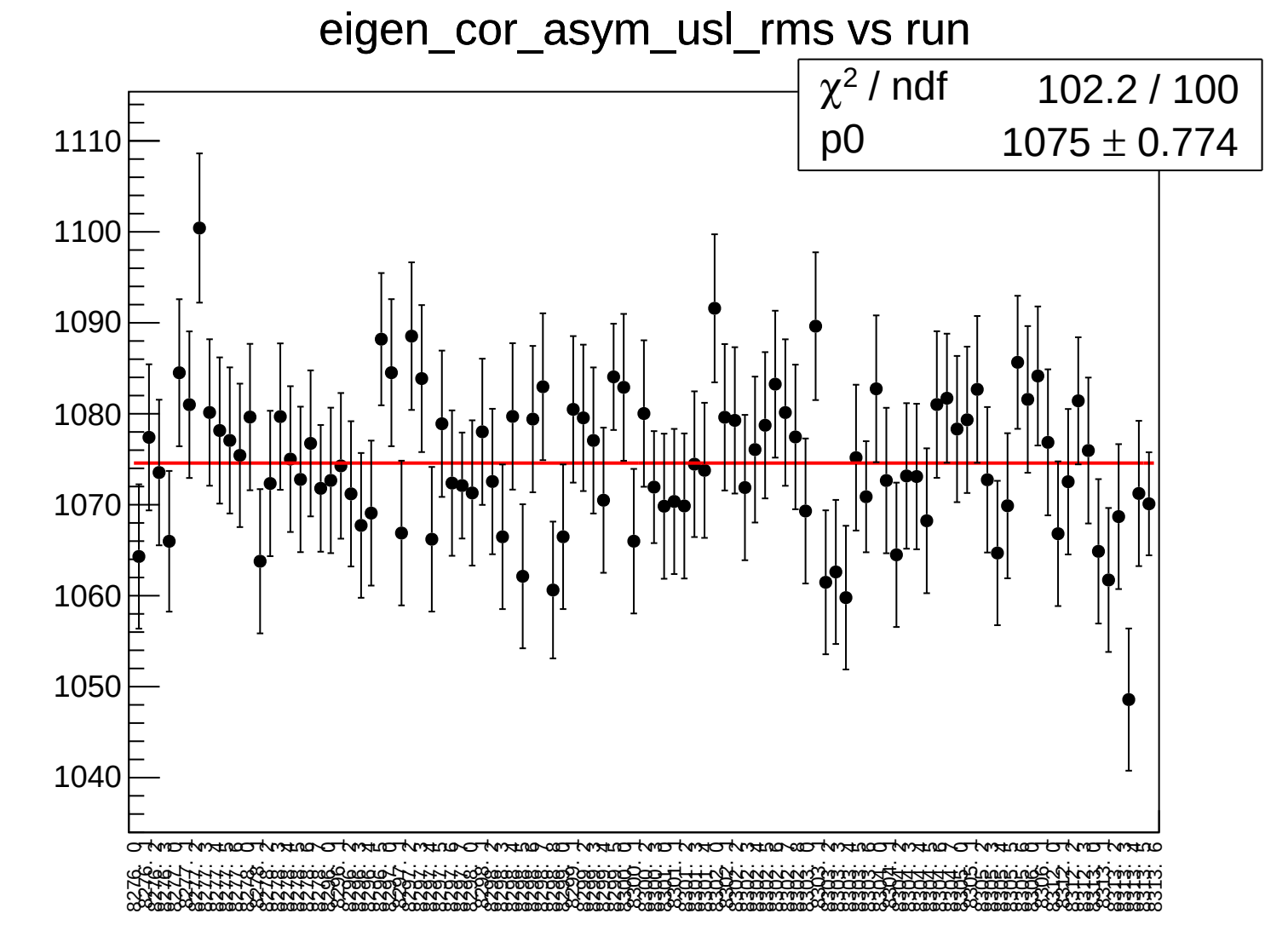

overload_cor_asym_usl_rms vs run
χ² / ndf 103 / 100
p0 1074 ± 0.7736
1110
1100
1090
1080
1070
1060
1050
1040

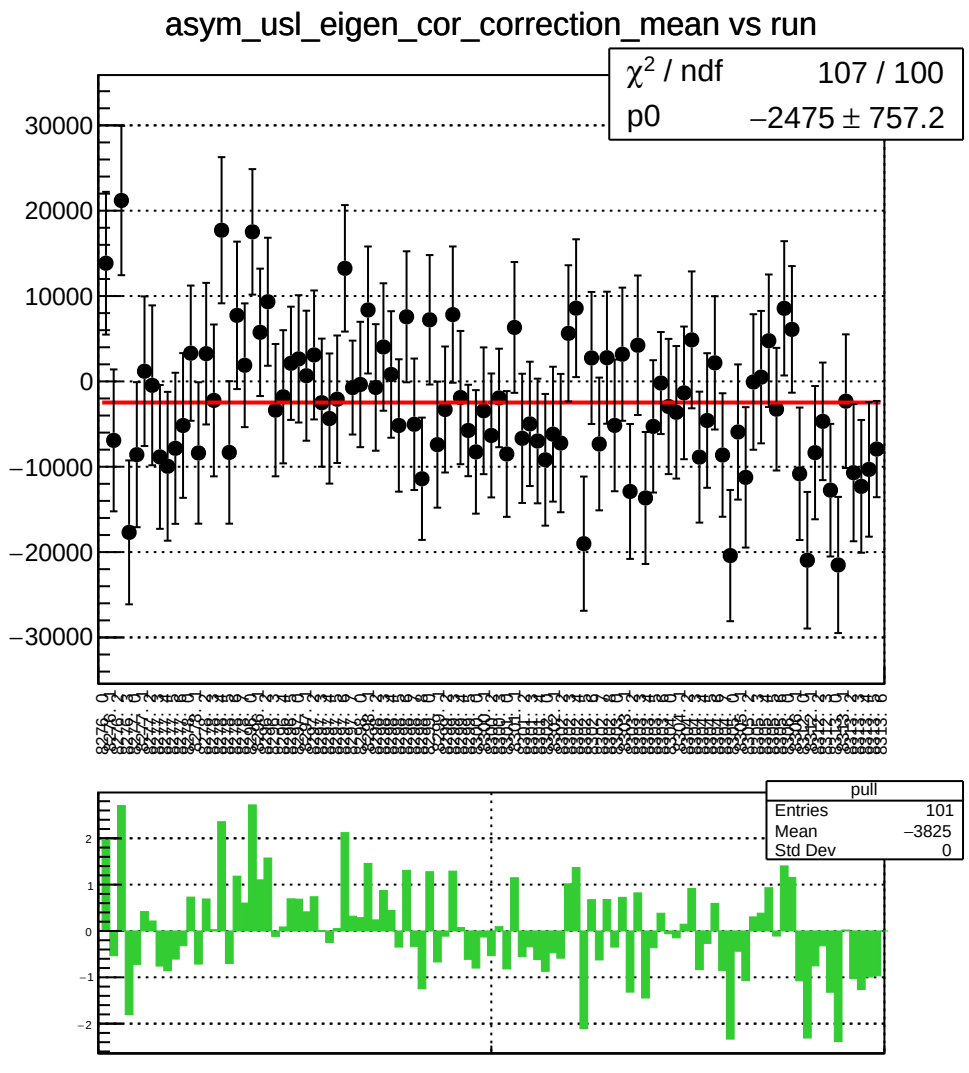

asym_usl_overload_cor_correction_mean vs run
χ² / ndf 108.1 / 100
p0 −2512 ± 758.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 101
Mean −3127
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.003293
Std Dev 1.034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

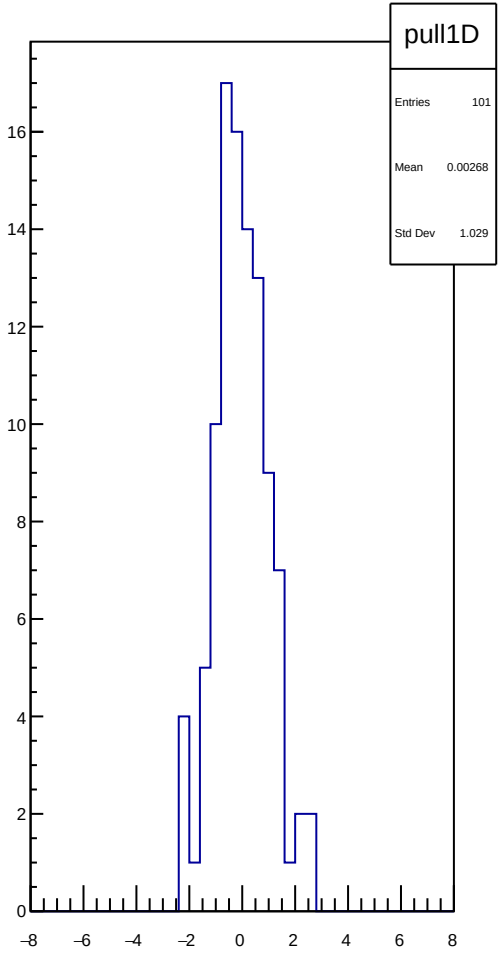

asym_usl_overload_cor_correction_rms vs run
χ² / ndf 4729 / 100
p0 743.3 ± 0.536
900
850
800
750
700

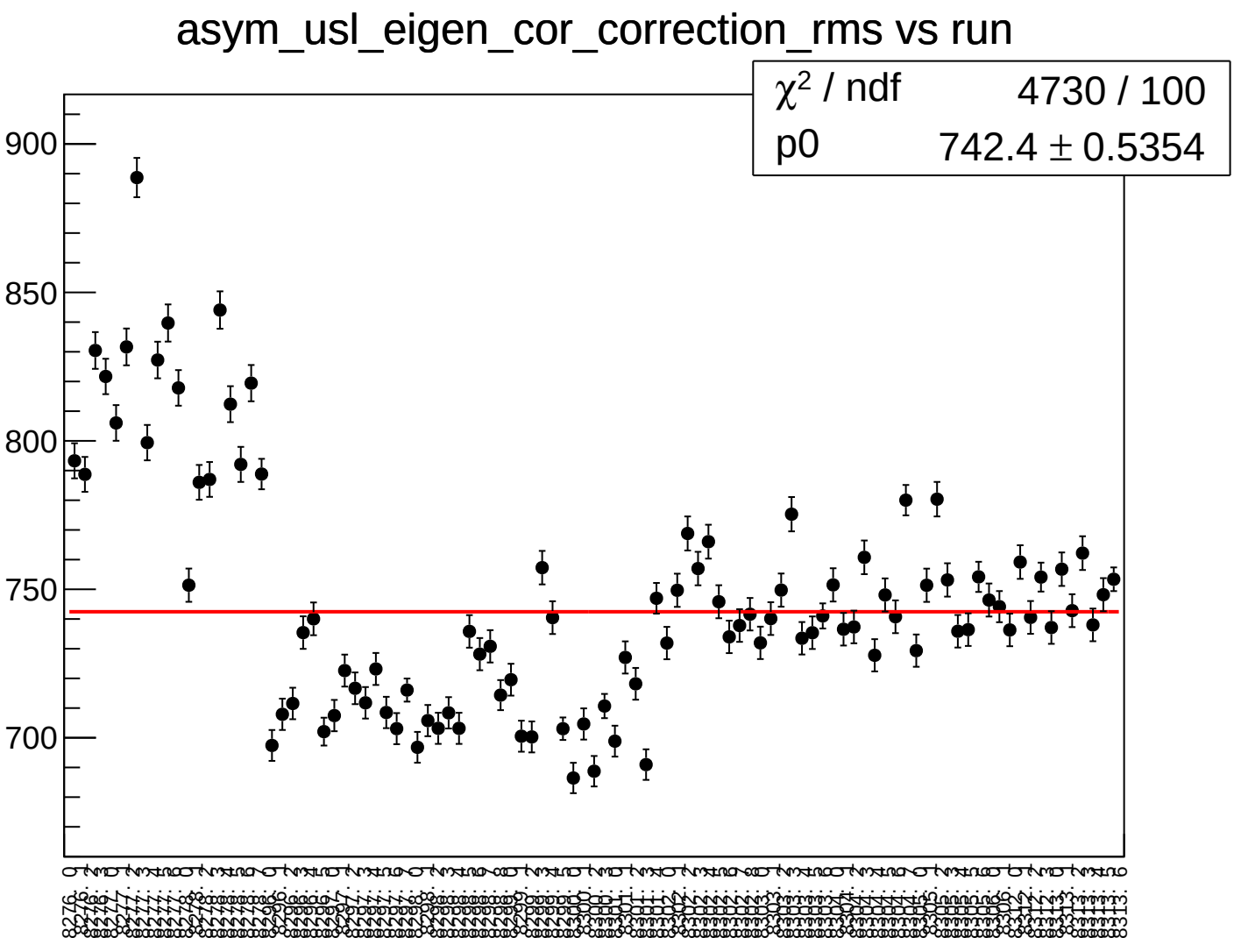

eigen_cor_asym_usl_mean vs run
χ² / ndf 97.37 / 100
p0 1715 ± 1095
60000
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 91.78
Std Dev 85.36
3
2
1
0
−1
−2
−3

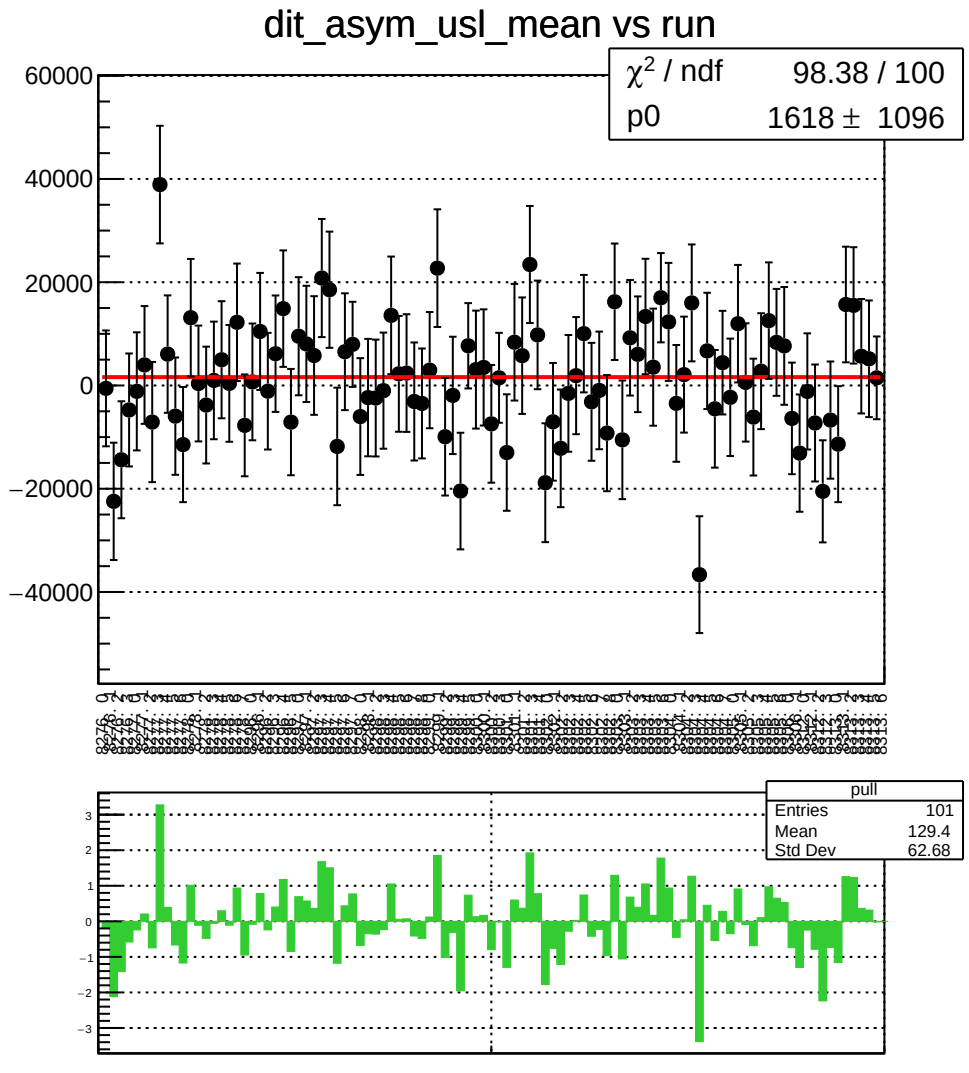

pull1D
Entries 101
Mean −0.007135
Std Dev 0.9819
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

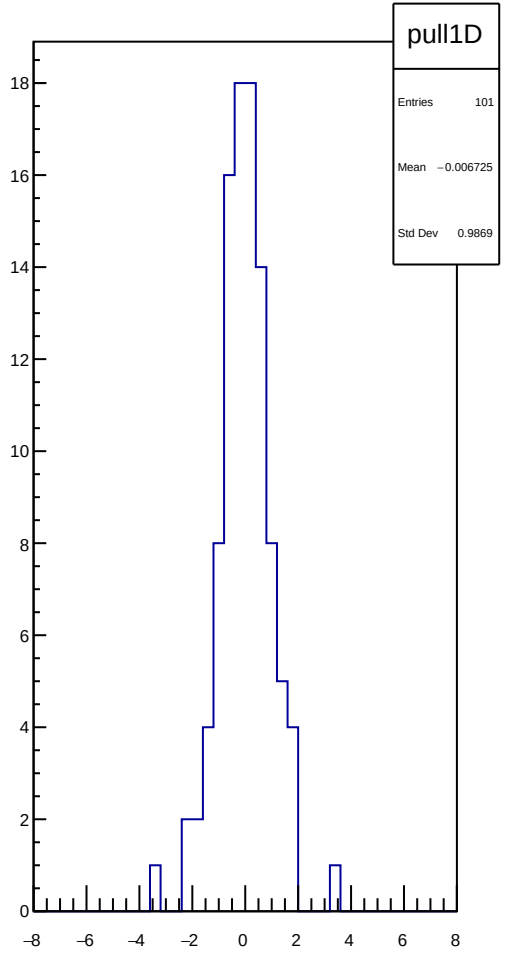

eigen_cor_asym_usl_rms vs run
χ² / ndf 102.2 / 100
p0 1075 ± 0.774
1110
1100
1090
1080
1070
1060
1050
1040

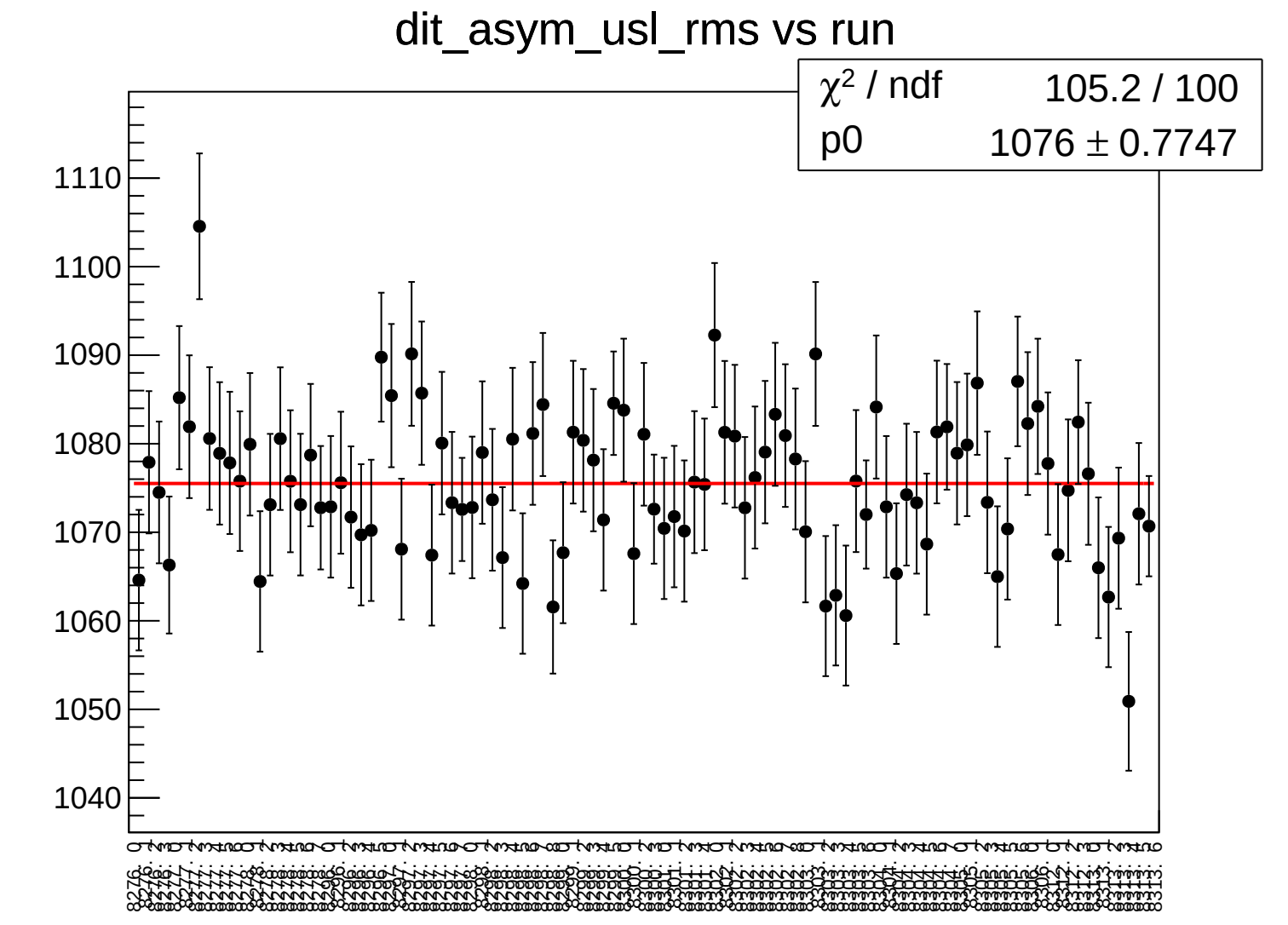

asym_usl_eigen_cor_correction_mean vs run
χ² / ndf 107 / 100
p0 −2475 ± 757.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 101
Mean −3825
Std Dev 0
2
1
0
−1
−2

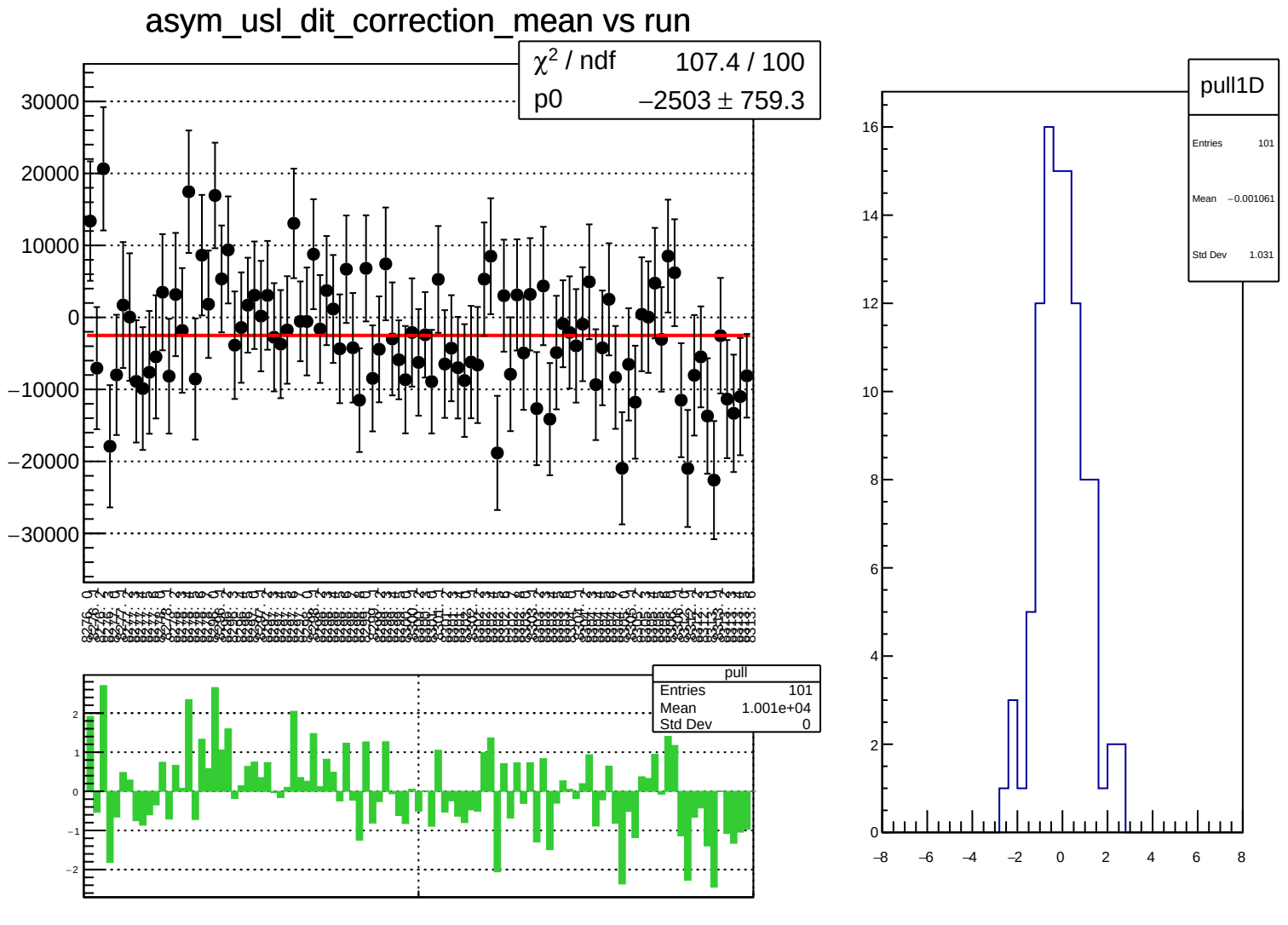

pull1D
Entries 101
Mean 0.00268
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

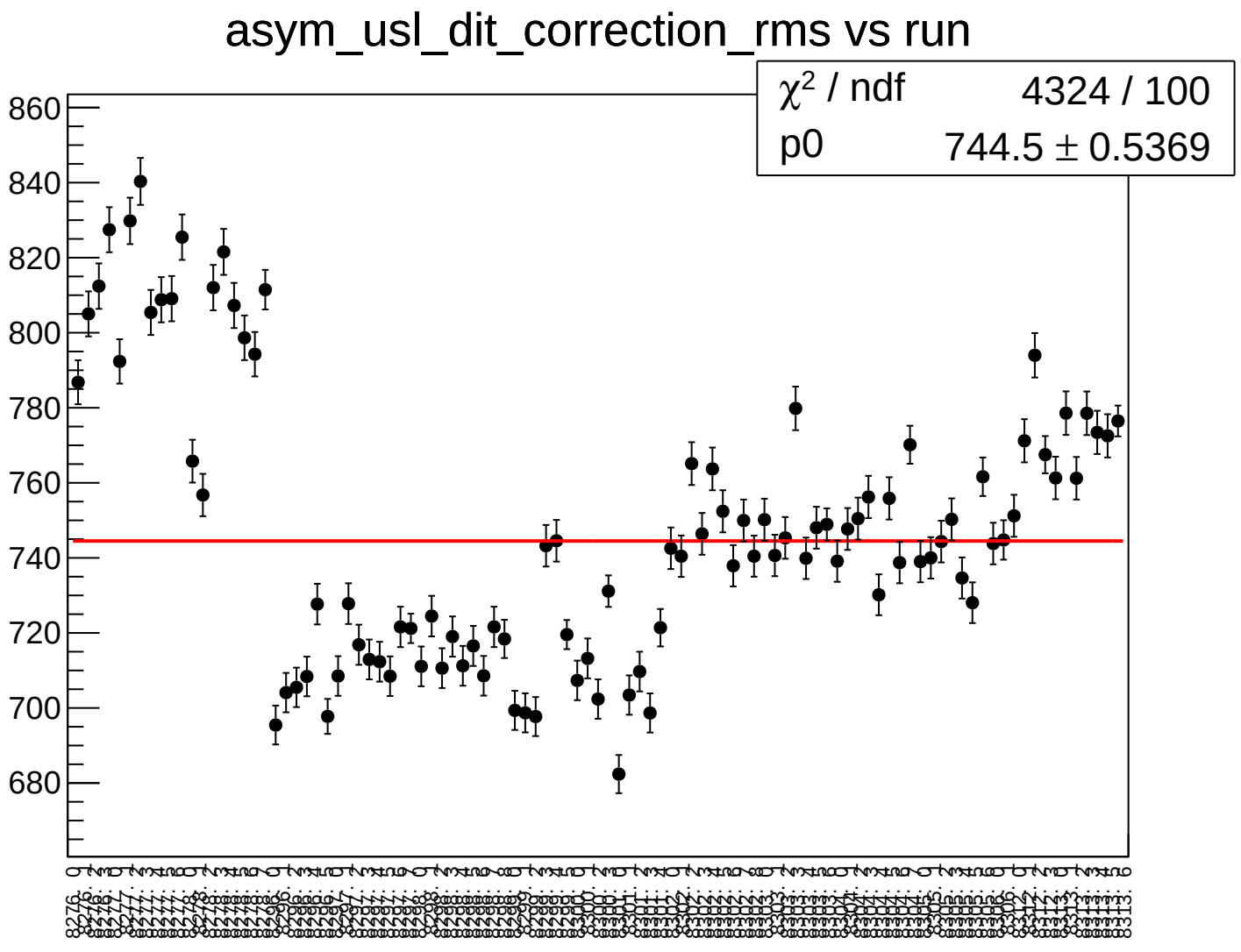

asym_usl_eigen_cor_correction_rms vs run
χ² / ndf 4730 / 100
p0 742.4 ± 0.5354
900
850
800
750
700

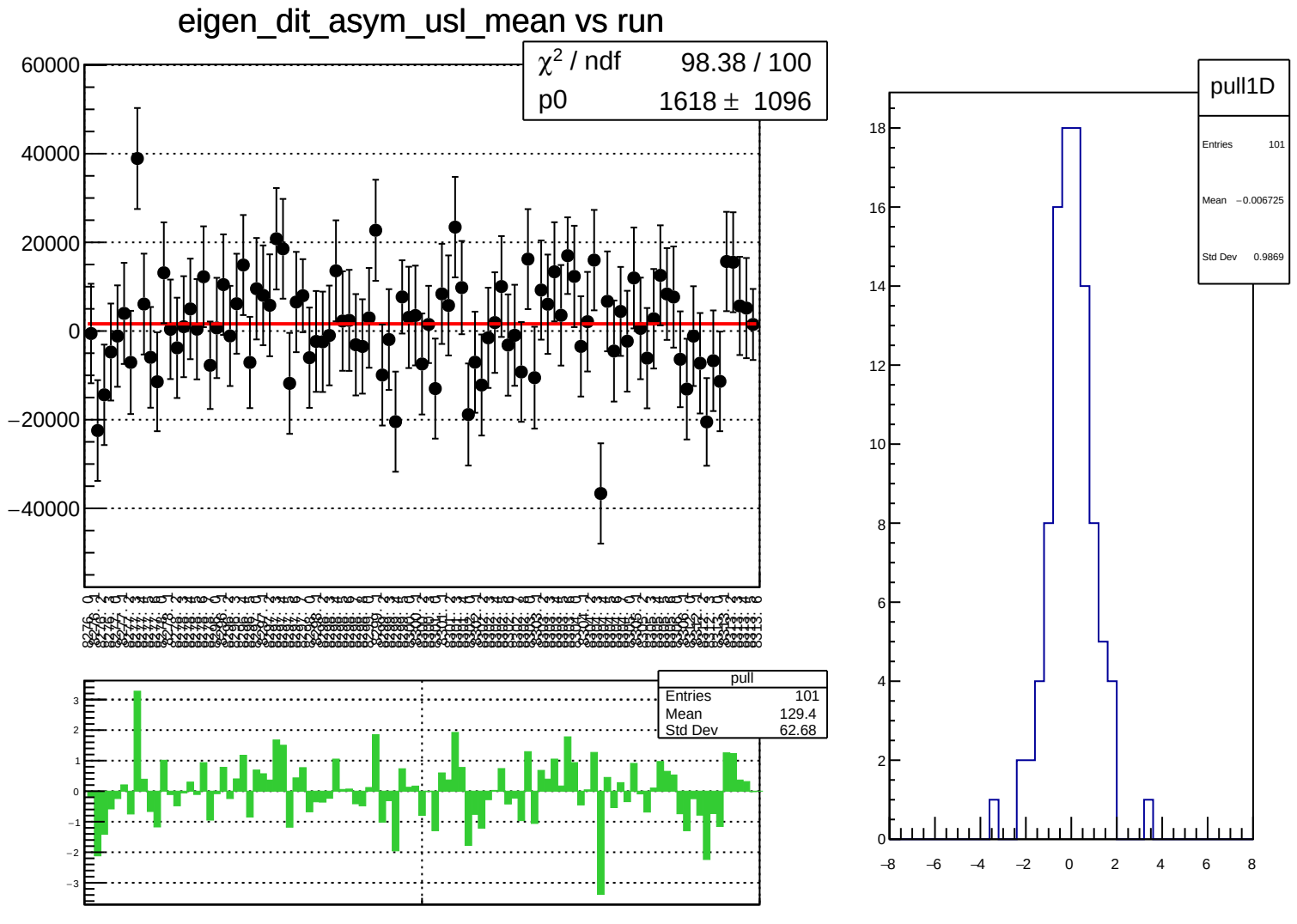

dit_asym_usl_mean vs run
χ² / ndf 98.38 / 100
p0 1618 ± 1096
60000
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 129.4
Std Dev 62.68
3
2
1
0
−1
−2
−3

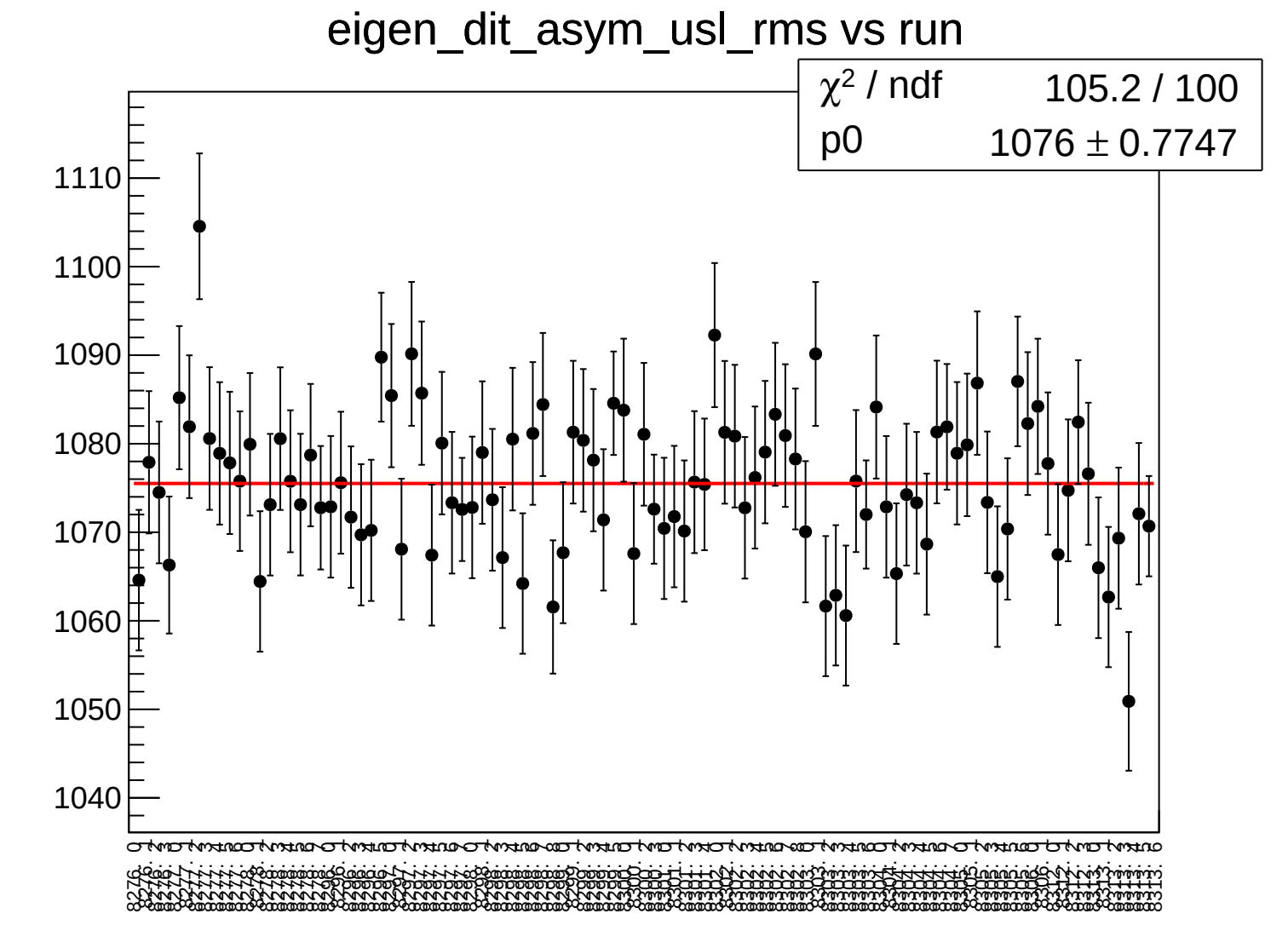

pull1D
Entries 101
Mean −0.006725
Std Dev 0.9869
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

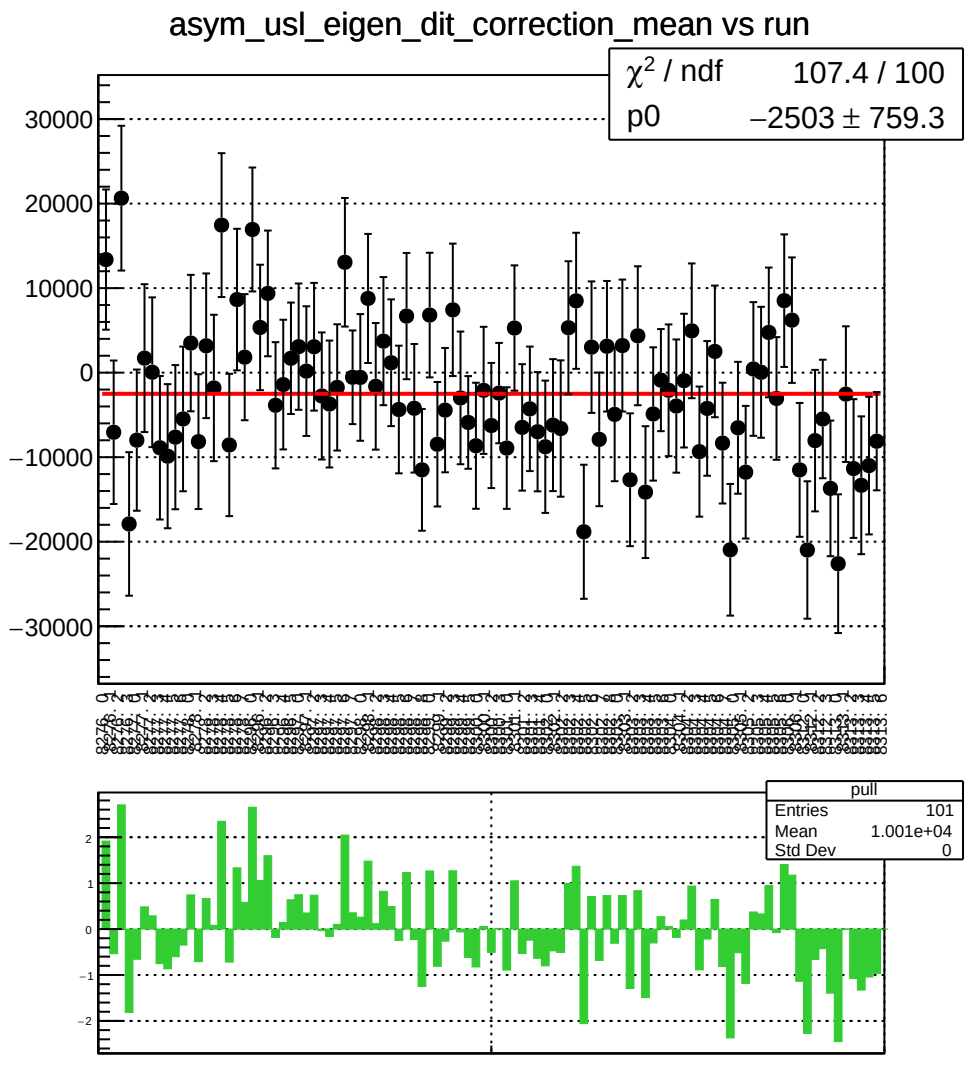

dit_asym_usl_rms vs run
χ² / ndf 105.2 / 100
p0 1076 ± 0.7747
1110
1100
1090
1080
1070
1060
1050
1040

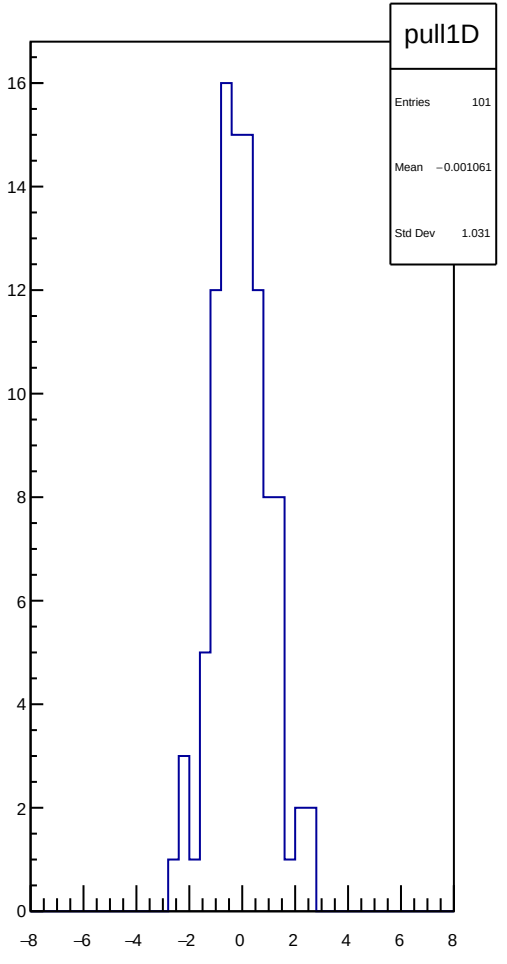

asym_usl_dit_correction_mean vs run
χ² / ndf 107.4 / 100
p0 −2503 ± 759.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 101
Mean 1.001e+04
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.001061
Std Dev 1.031
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

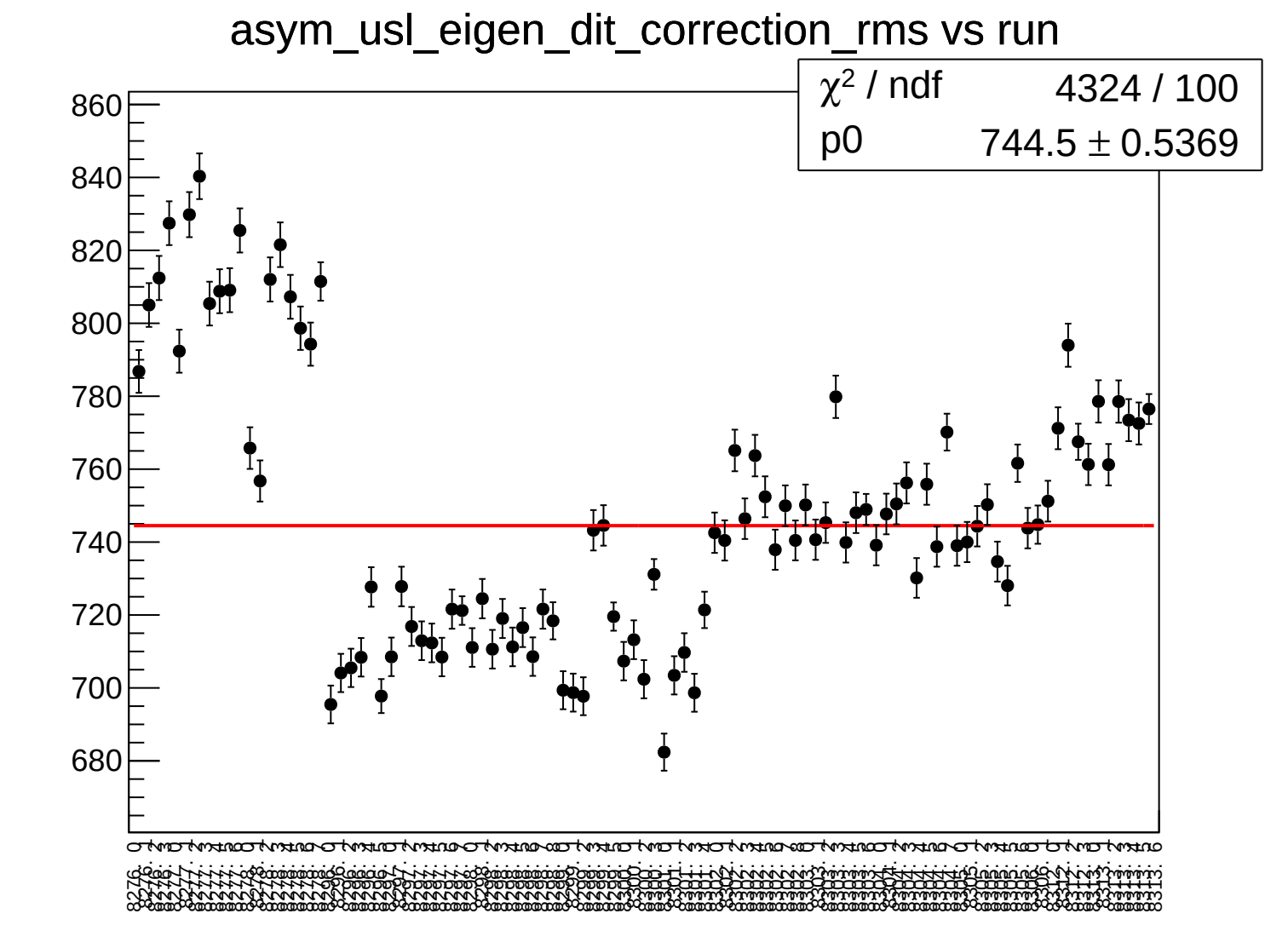

asym_usl_dit_correction_rms vs run
χ² / ndf 4324 / 100
p0 744.5 ± 0.5369
860
840
820
800
780
760
740
720
700
680

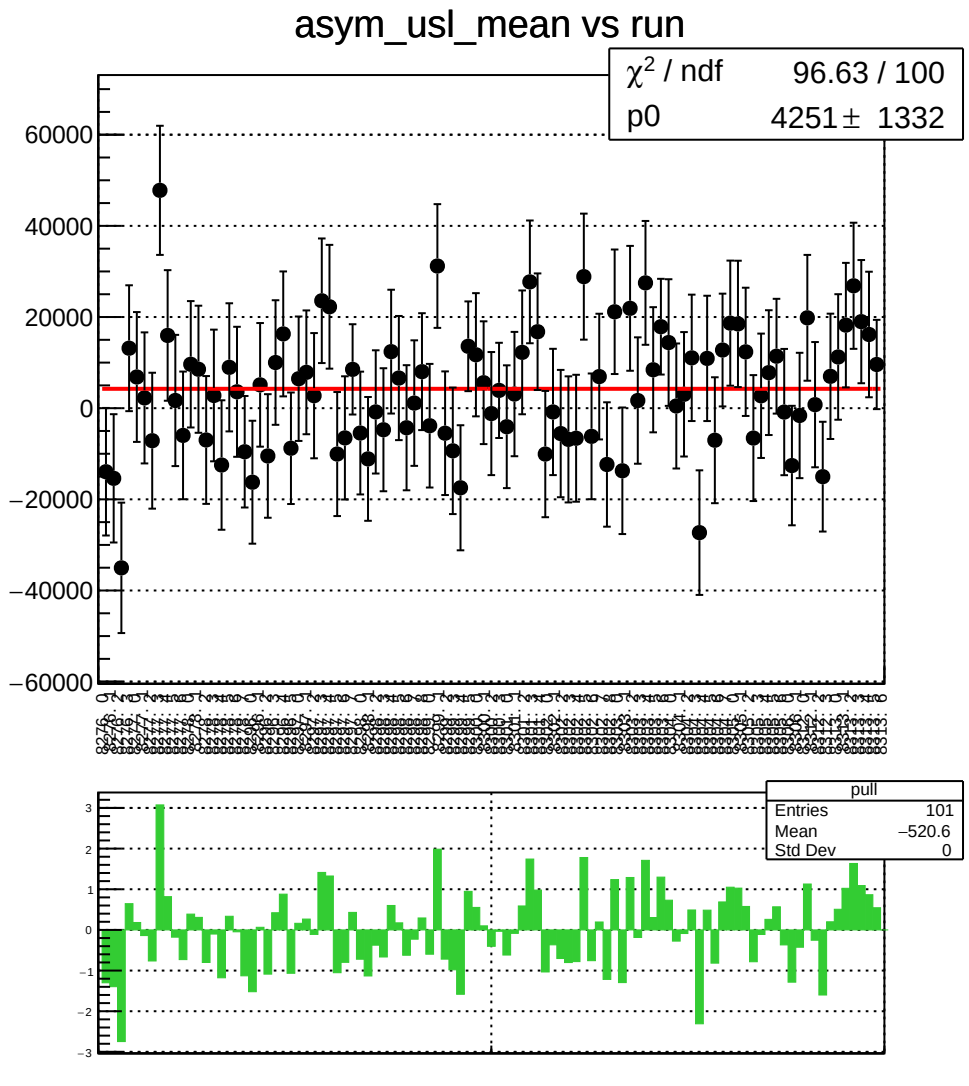

eigen_dit_asym_usl_mean vs run
χ² / ndf 98.38 / 100
p0 1618 ± 1096
60000
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 129.4
Std Dev 62.68
3
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean −0.006725
Std Dev 0.9869
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

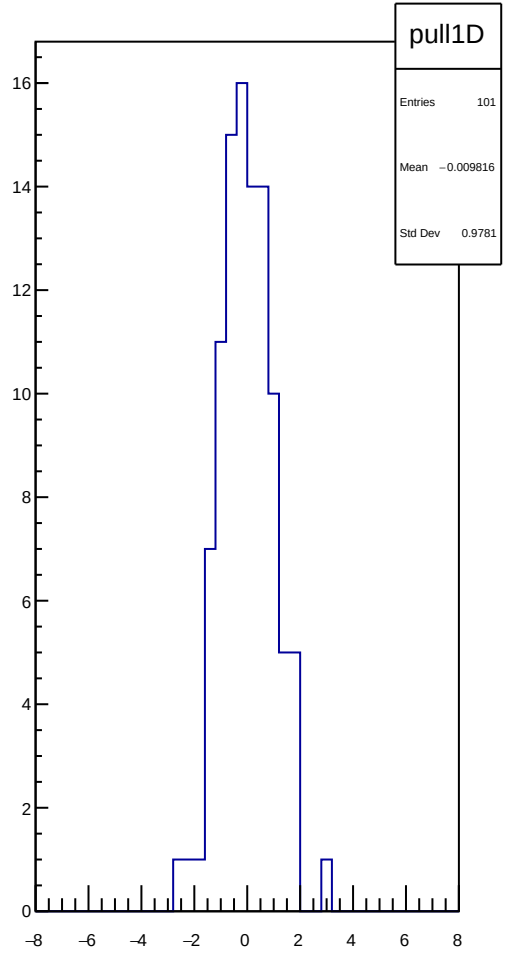

eigen_dit_asym_usl_rms vs run
χ² / ndf 105.2 / 100
p0 1076 ± 0.7747
1110
1100
1090
1080
1070
1060
1050
1040

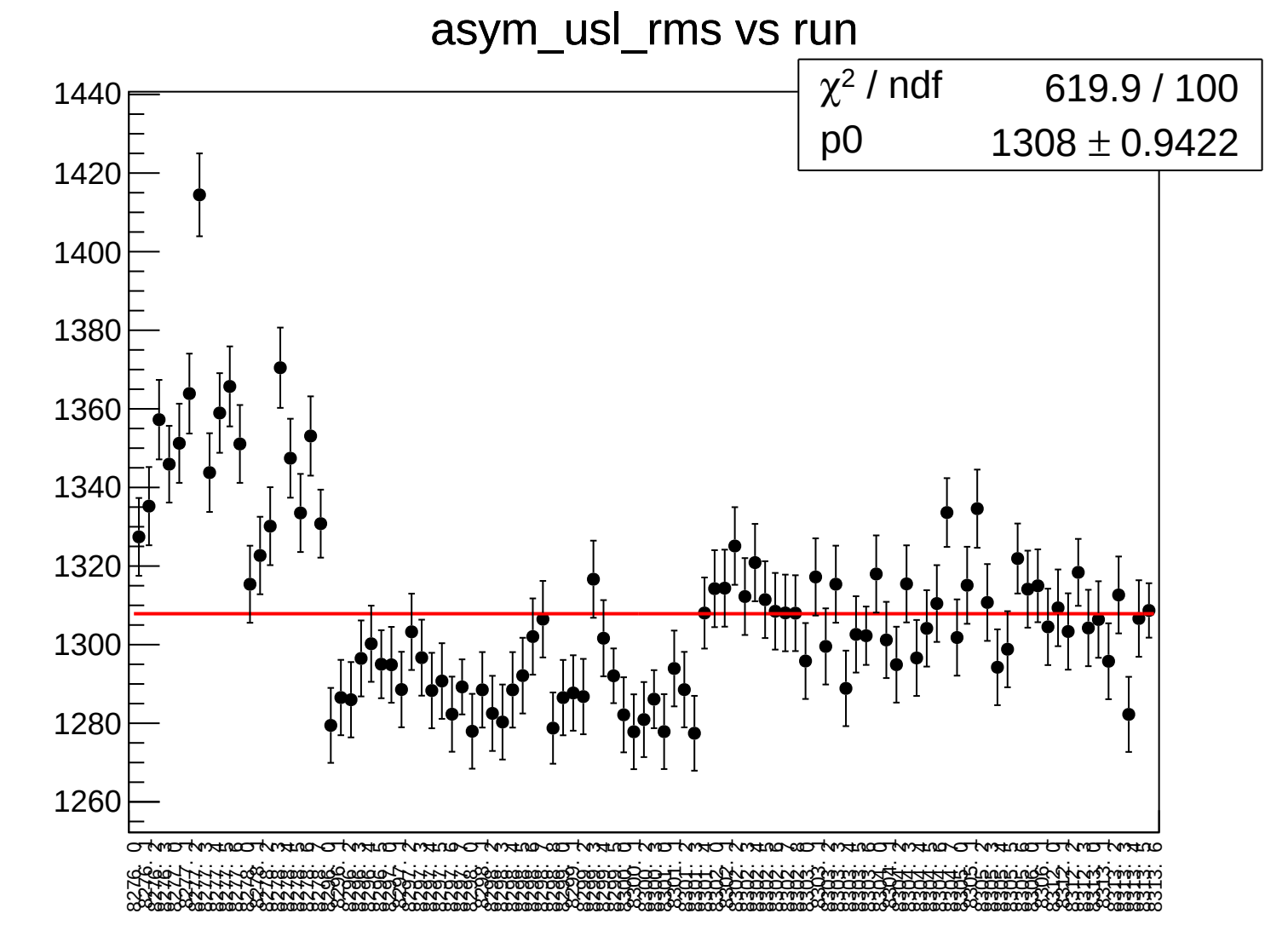

asym_usl_eigen_dit_correction_mean vs run
χ² / ndf 107.4 / 100
p0 −2503 ± 759.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 101
Mean 1.001e+04
Std Dev 0
2
1
0
−1
−2

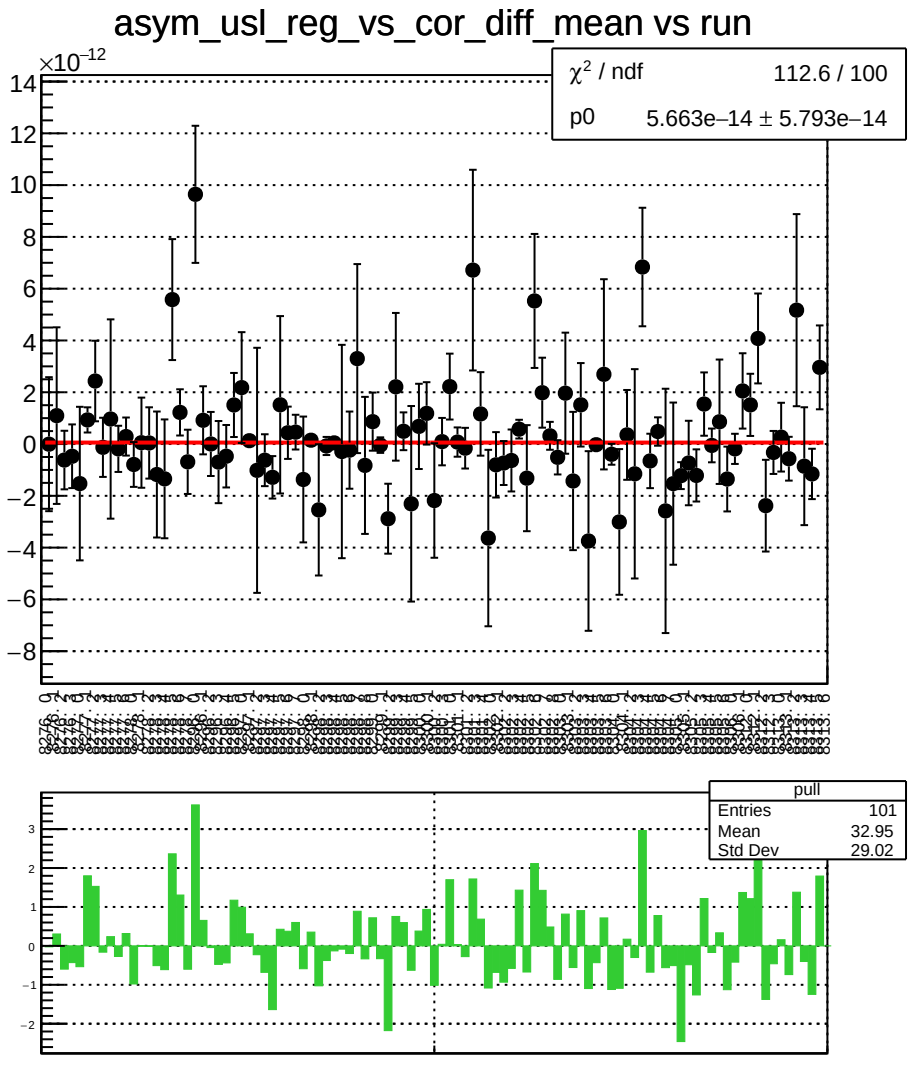

pull1D
Entries 101
Mean −0.001061
Std Dev 1.031
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

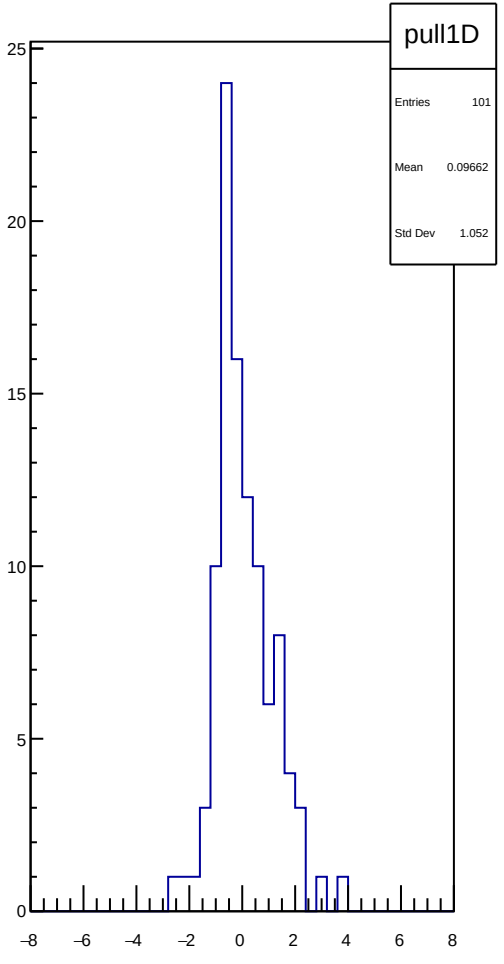

asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 4324 / 100
p0 744.5 ± 0.5369
860
840
820
800
780
760
740
720
700
680

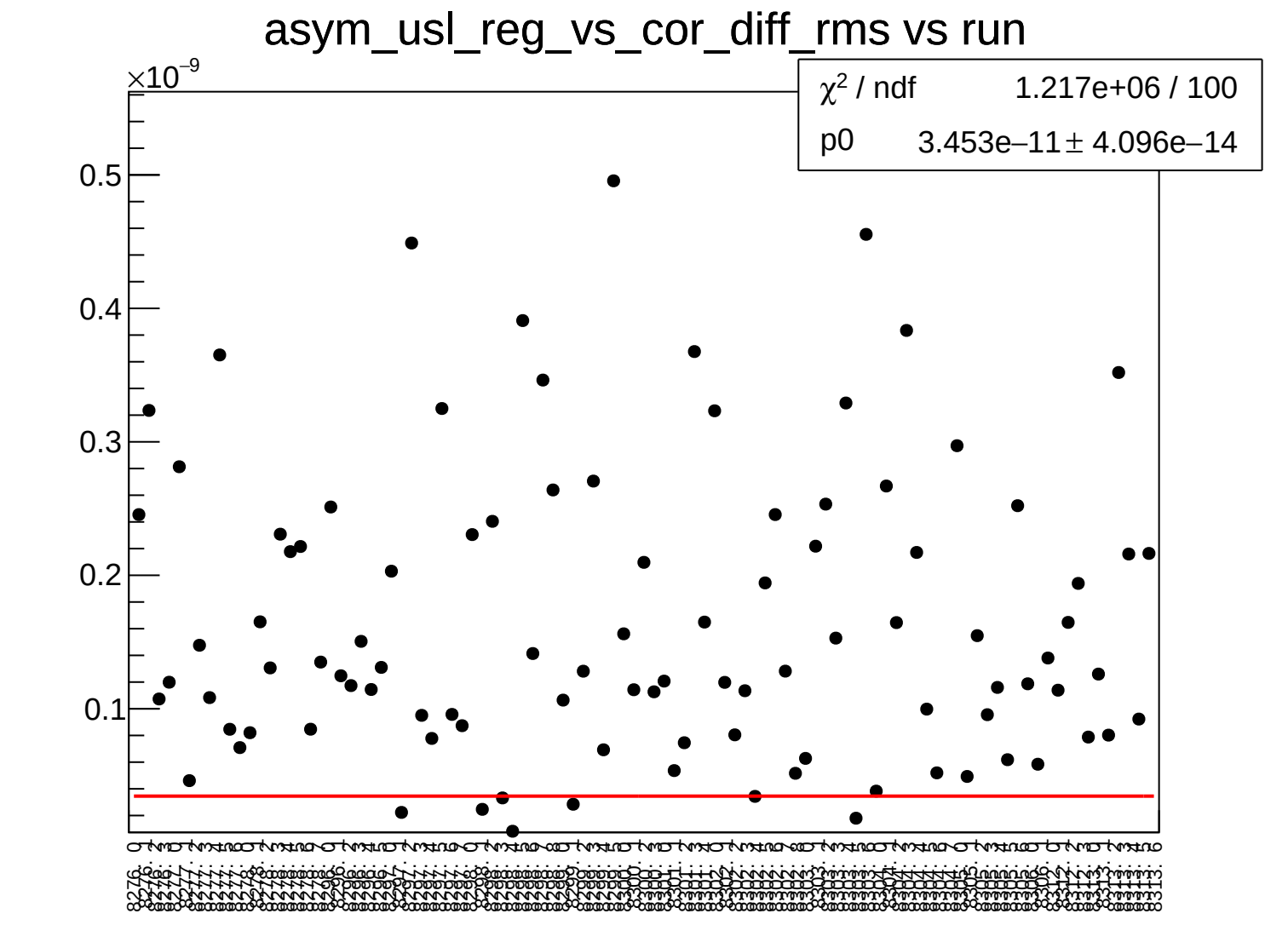

asym_usl_mean vs run
χ² / ndf 96.63 / 100
p0 4251 ± 1332
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −520.6
Std Dev 0
3
2
1
0
−1
−2
−3

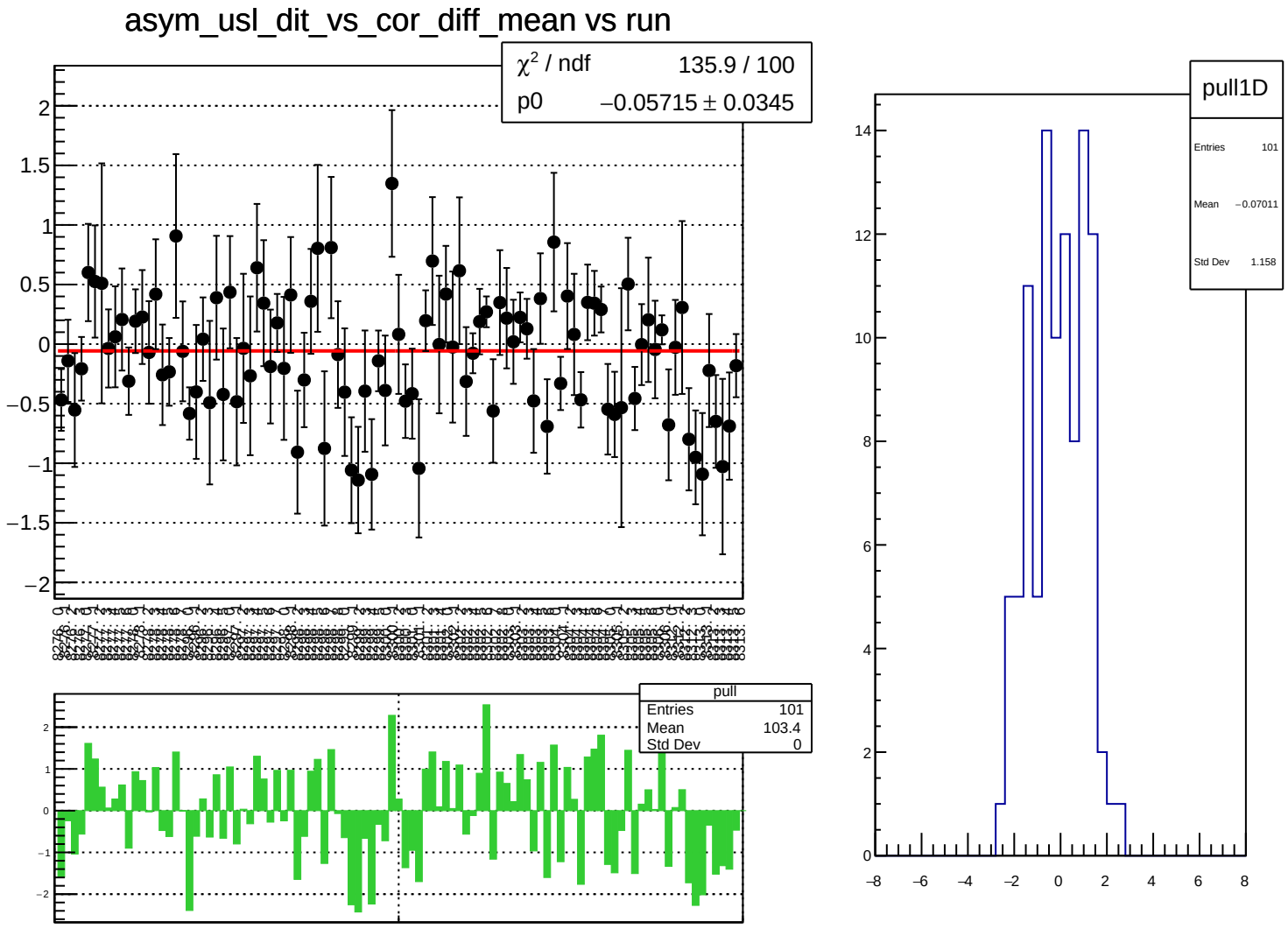

pull1D
Entries 101
Mean −0.009816
Std Dev 0.9781
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

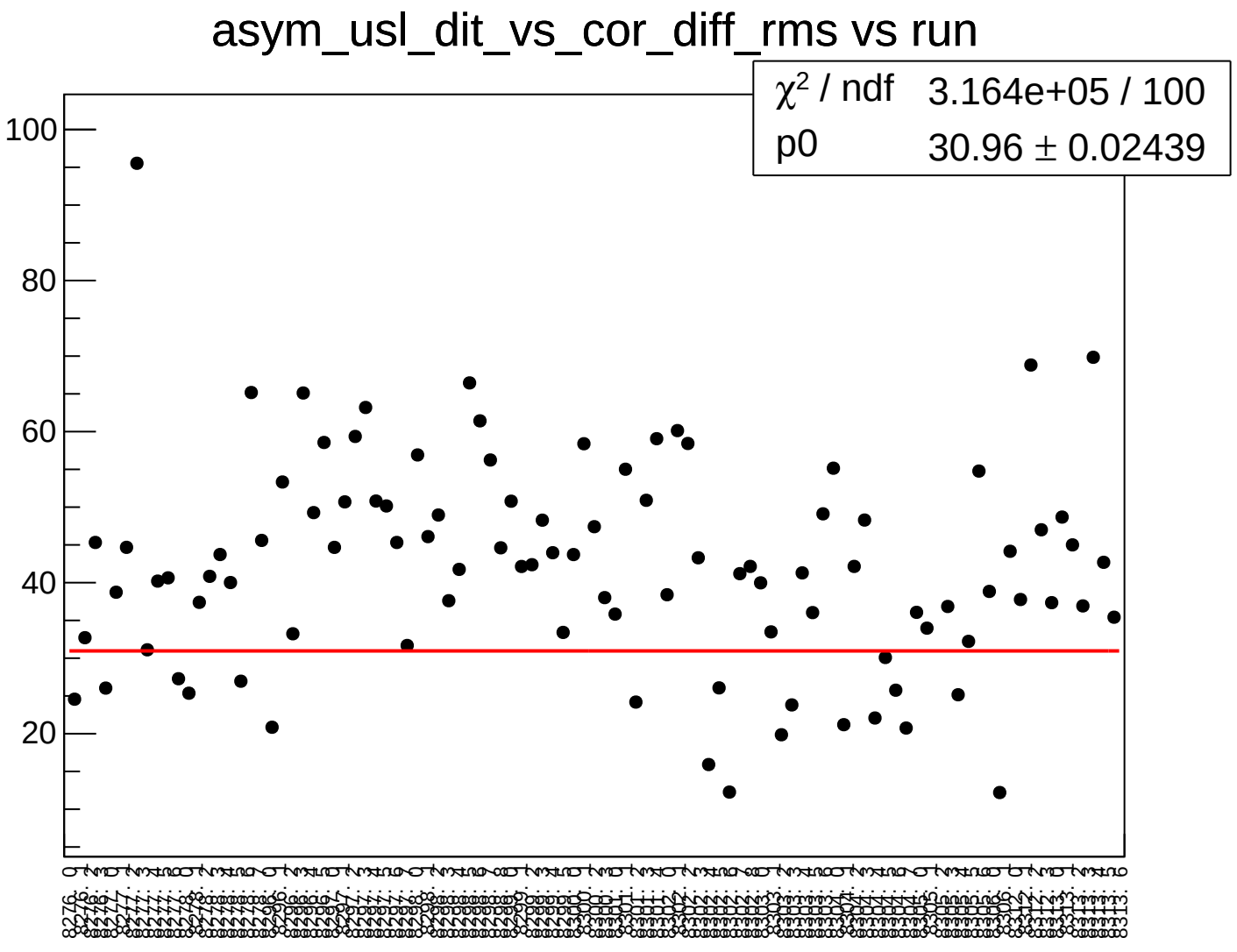

asym_usl_rms vs run
χ² / ndf 619.9 / 100
p0 1308 ± 0.9422
1440
1420
1400
1380
1360
1340
1320
1300
1280
1260

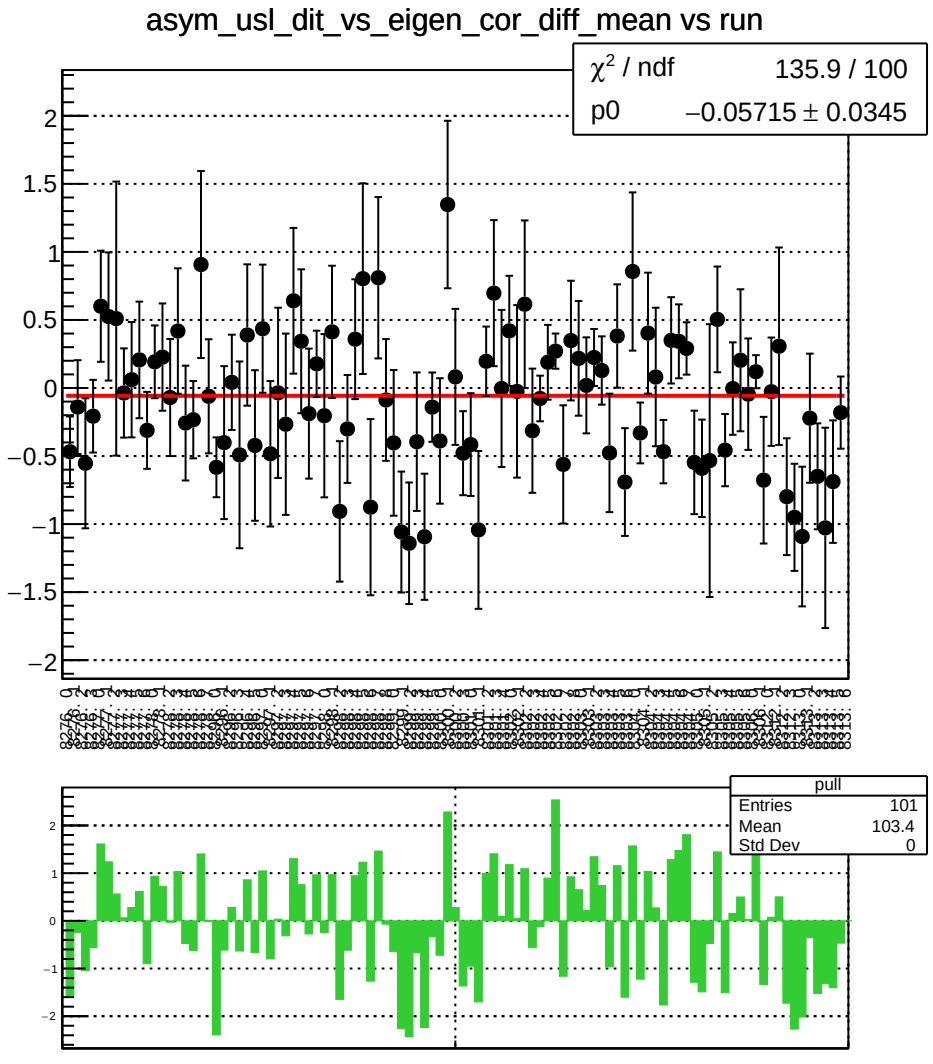

asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 112.6 / 100
p0 5.663e−14 ± 5.793e−14
pull
Entries 101
Mean 32.95
Std Dev 29.02

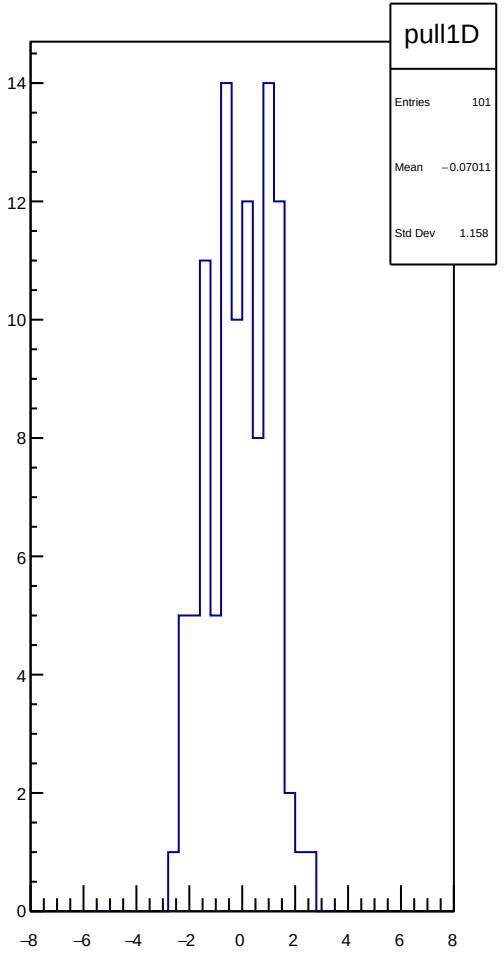

pull1D
Entries 101
Mean 0.09662
Std Dev 1.052

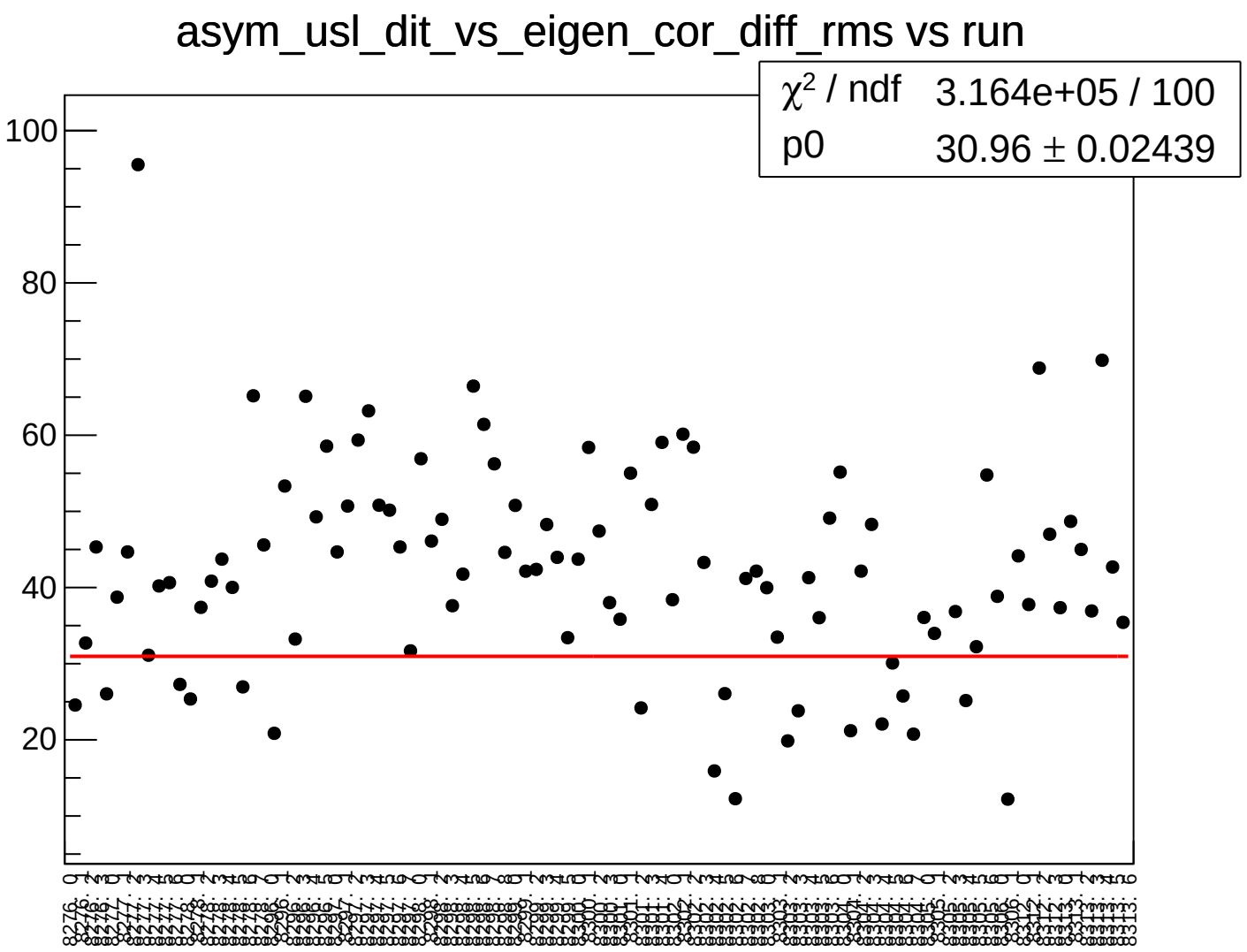

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.217e+06 / 100
p0 3.453e−11 ± 4.096e−14
0.5
0.4
0.3
0.2
0.1

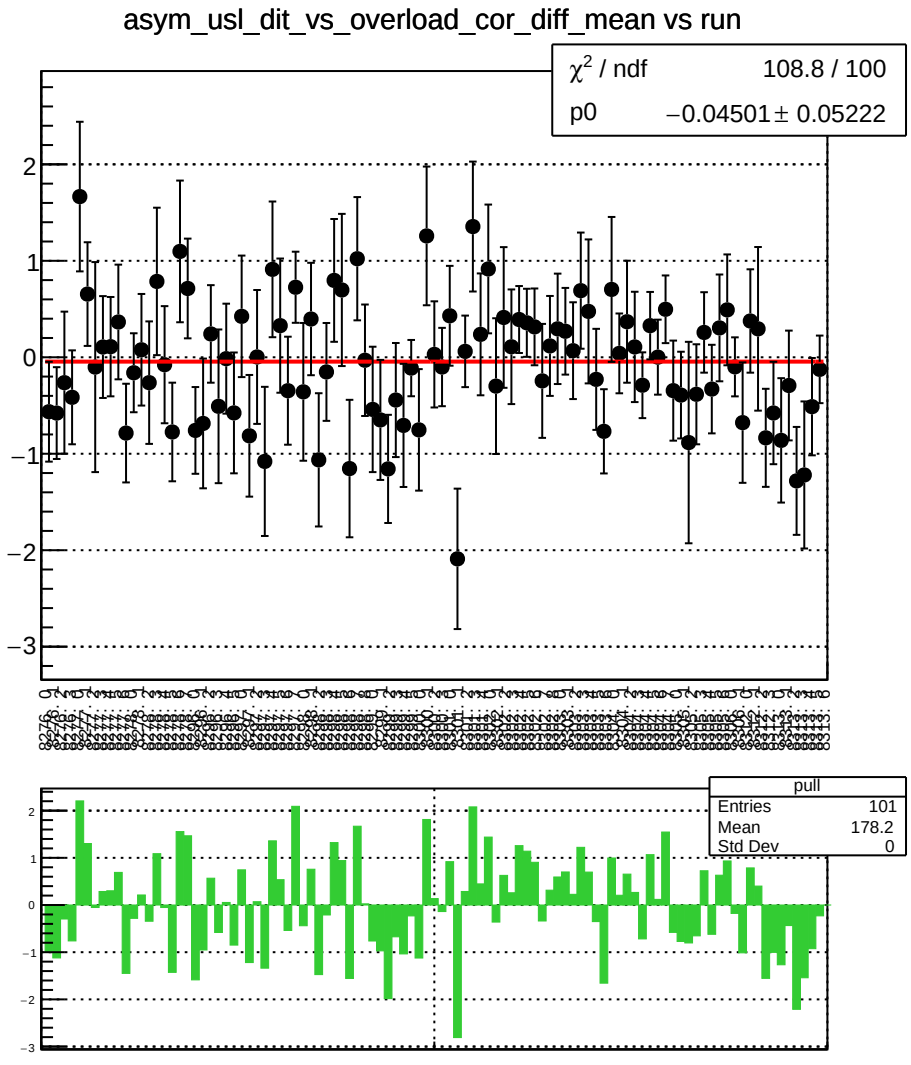

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 135.9 / 100
p0 −0.05715 ± 0.0345
pull
Entries 101
Mean 103.4
Std Dev 0
pull1D
Entries 101
Mean −0.07011
Std Dev 1.158

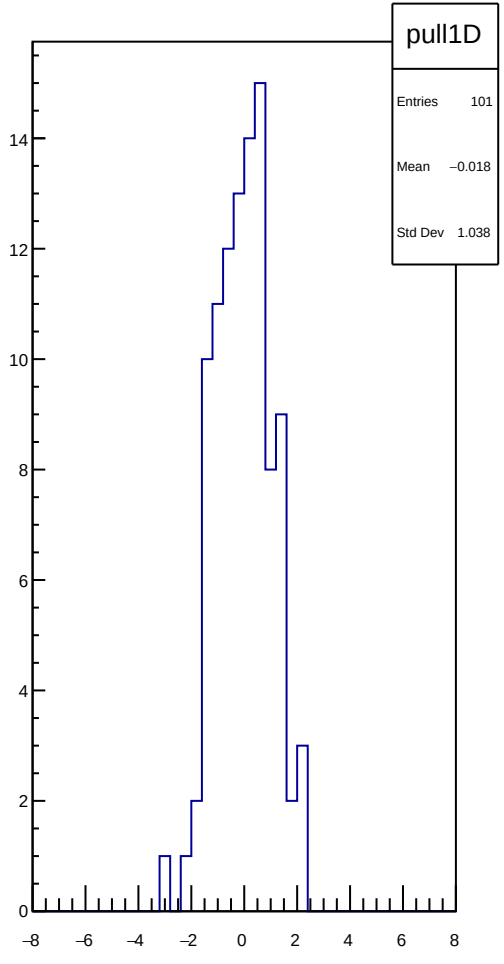

asym_usl_dit_vs_cor_diff_rms vs run
χ² / ndf 3.164e+05 / 100
p0 30.96 ± 0.02439
100
80
60
40
20

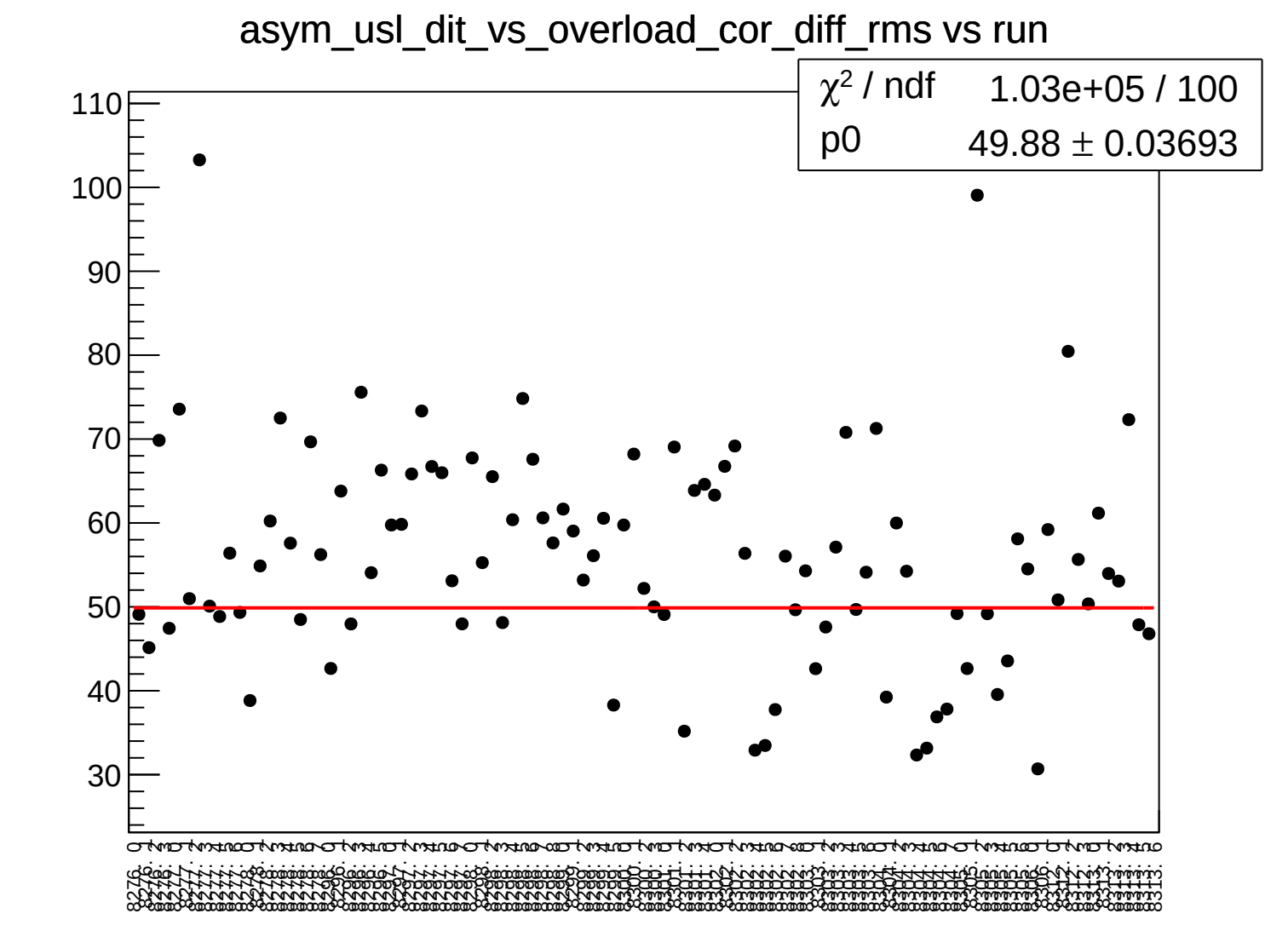

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 135.9 / 100
p0 −0.05715 ± 0.0345
pull
Entries 101
Mean 103.4
Std Dev 0

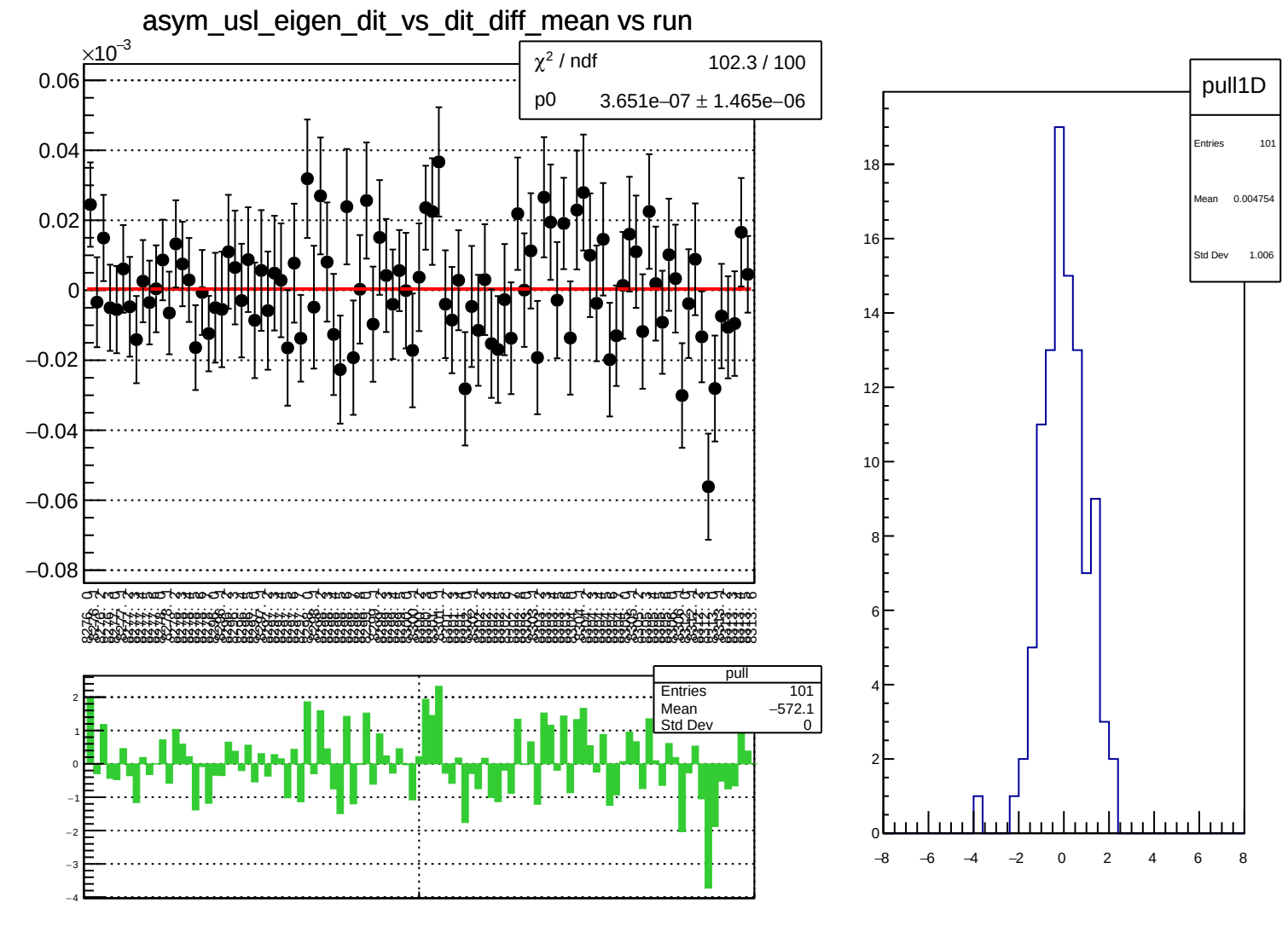

pull1D
Entries 101
Mean −0.07011
Std Dev 1.158

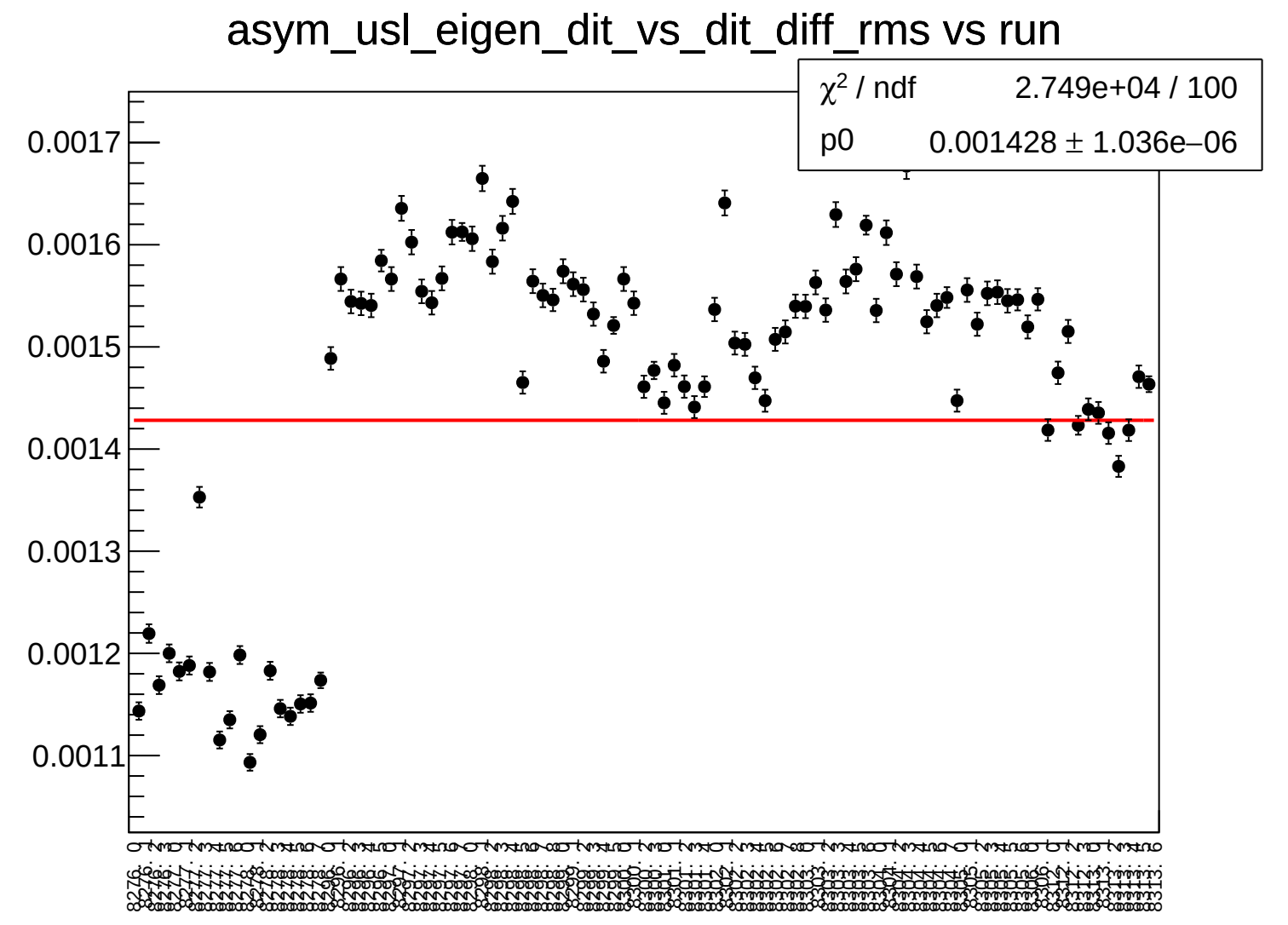

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.164e+05 / 100
p0 30.96 ± 0.02439
100
80
60
40
20

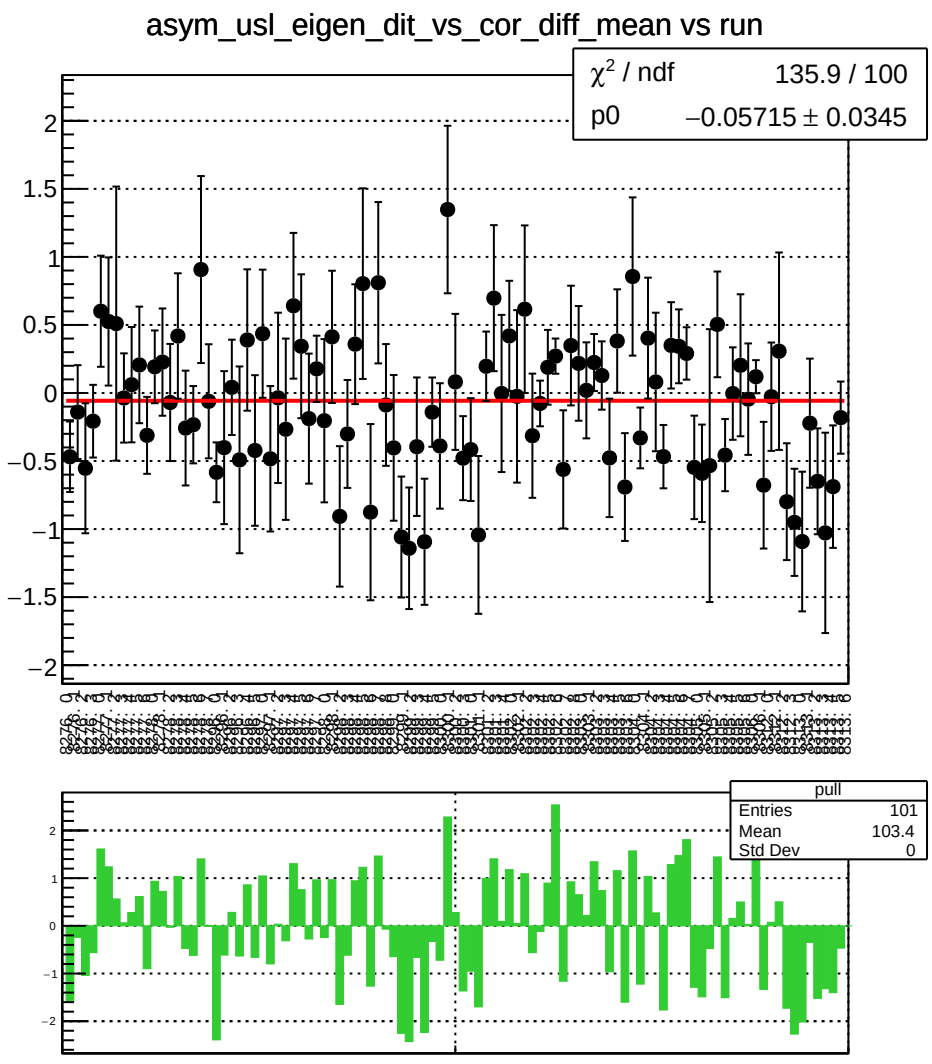

asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 108.8 / 100
p0 −0.04501 ± 0.05222
pull
Entries 101
Mean 178.2
Std Dev 0

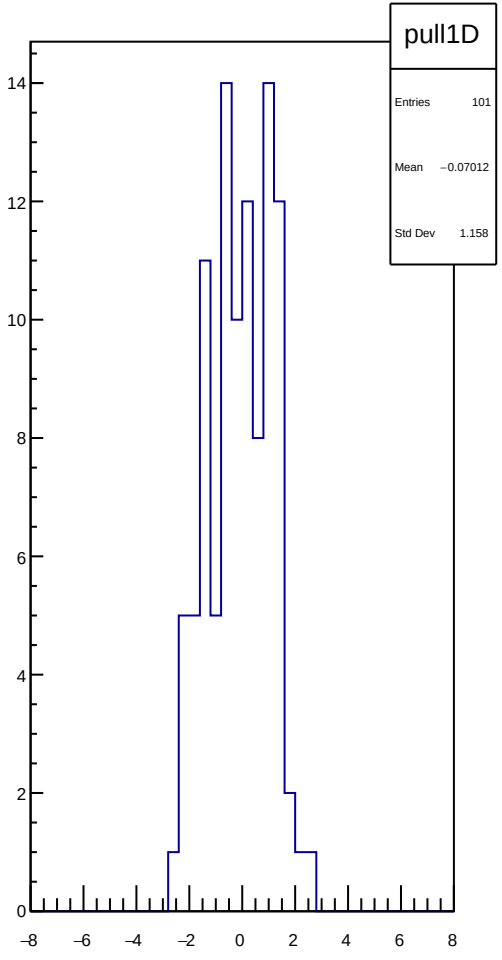

pull1D
Entries 101
Mean −0.018
Std Dev 1.038

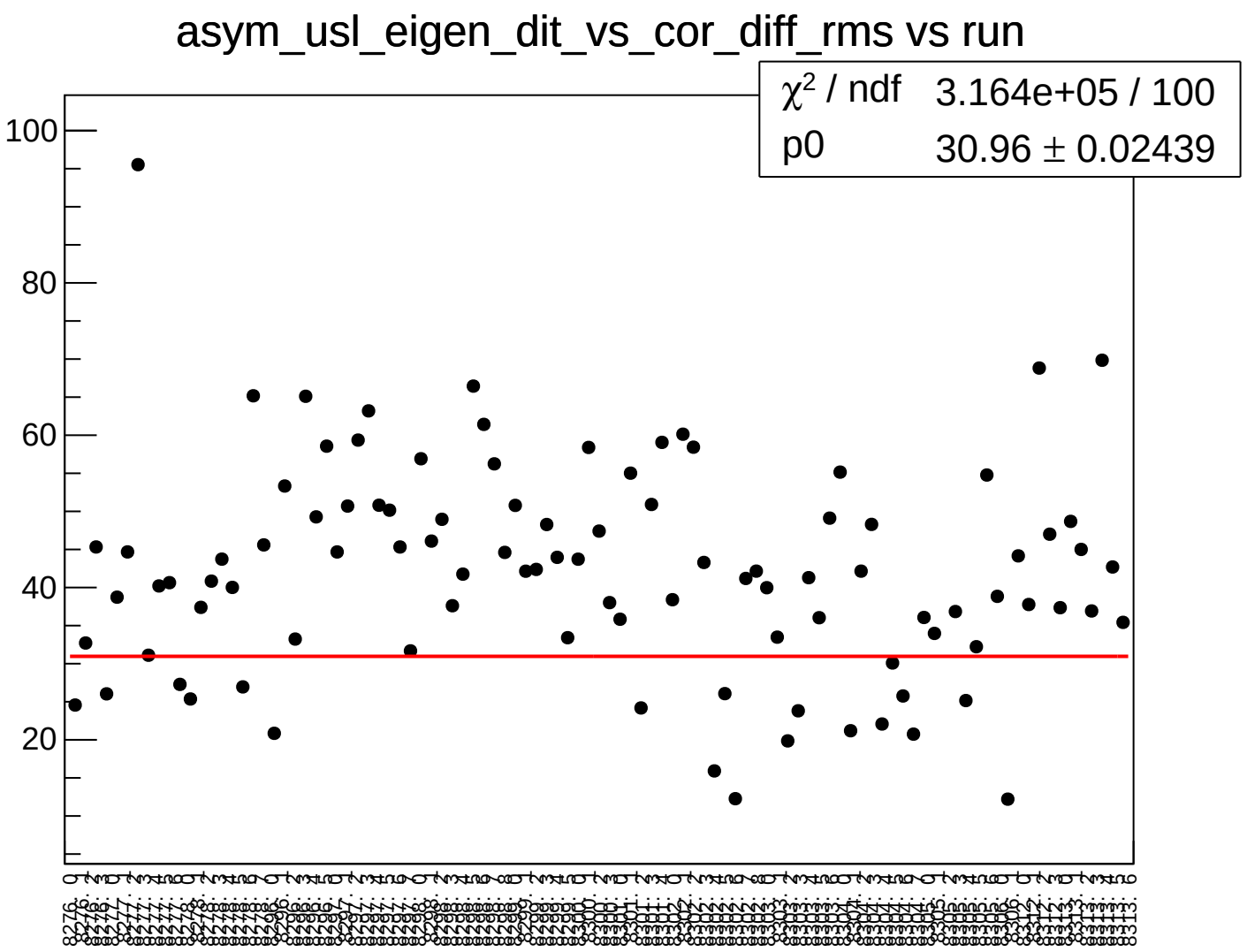

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.03e+05 / 100
p0 49.88 ± 0.03693
110
100
90
80
70
60
50
40
30

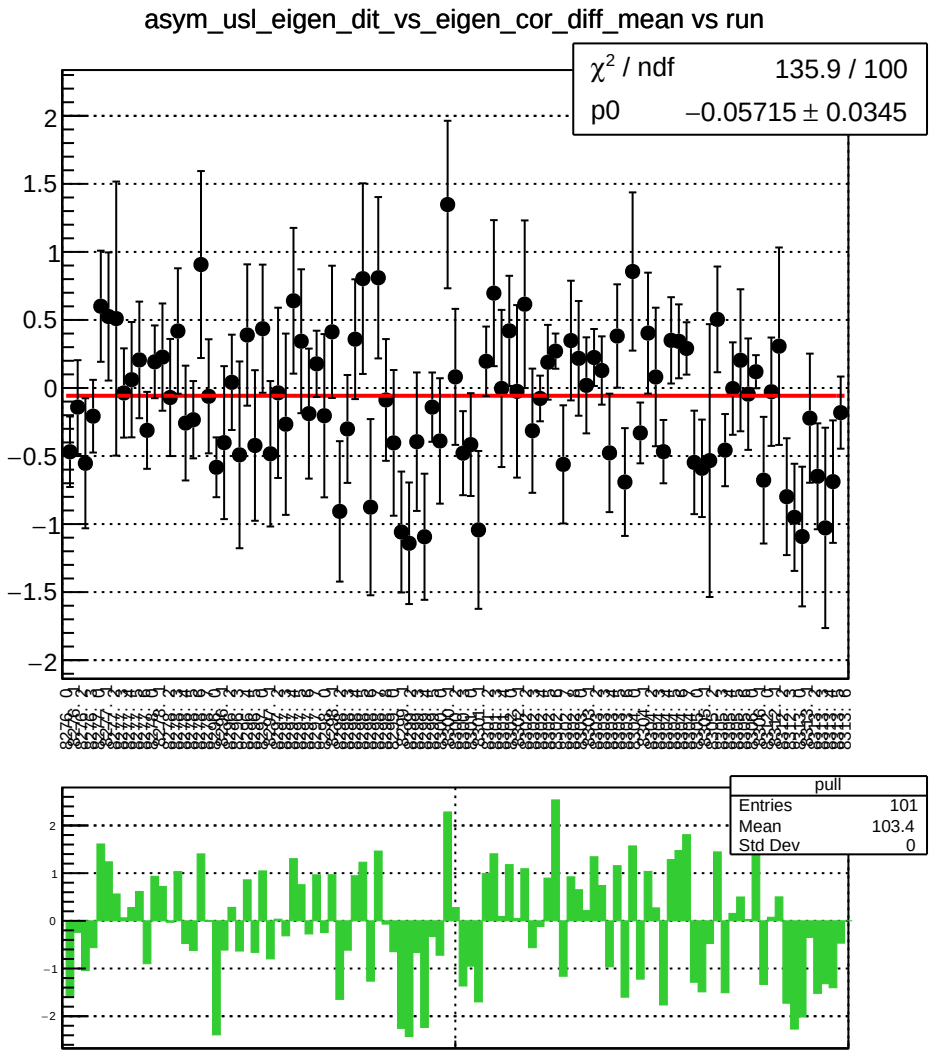

asym_usl_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 102.3 / 100
p0 3.651e−07 ± 1.465e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 101
Mean −572.1
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 101
Mean 0.004754
Std Dev 1.006
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

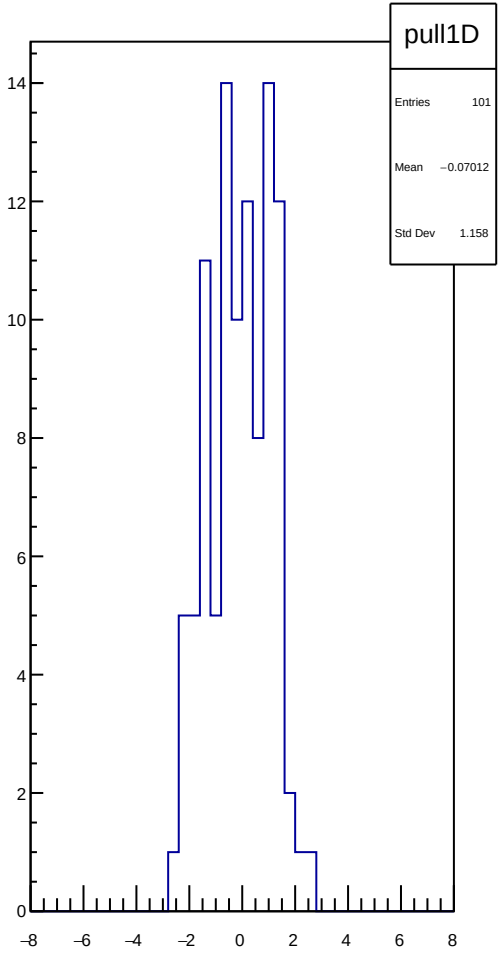

asym_usl_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.749e+04 / 100
p0 0.001428 ± 1.036e−06
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012
0.0011

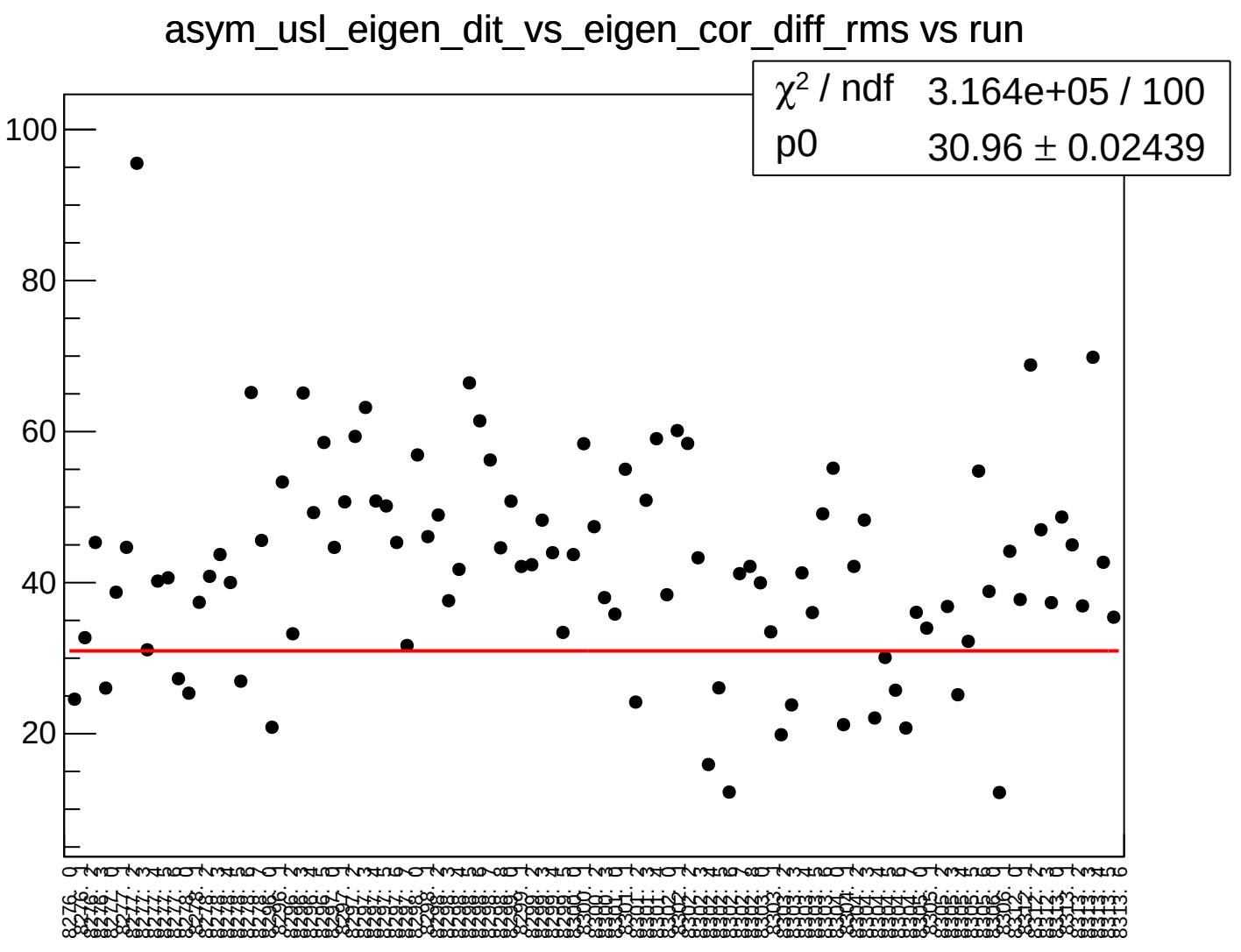

asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 135.9 / 100
p0 −0.05715 ± 0.0345
pull
Entries 101
Mean 103.4
Std Dev 0

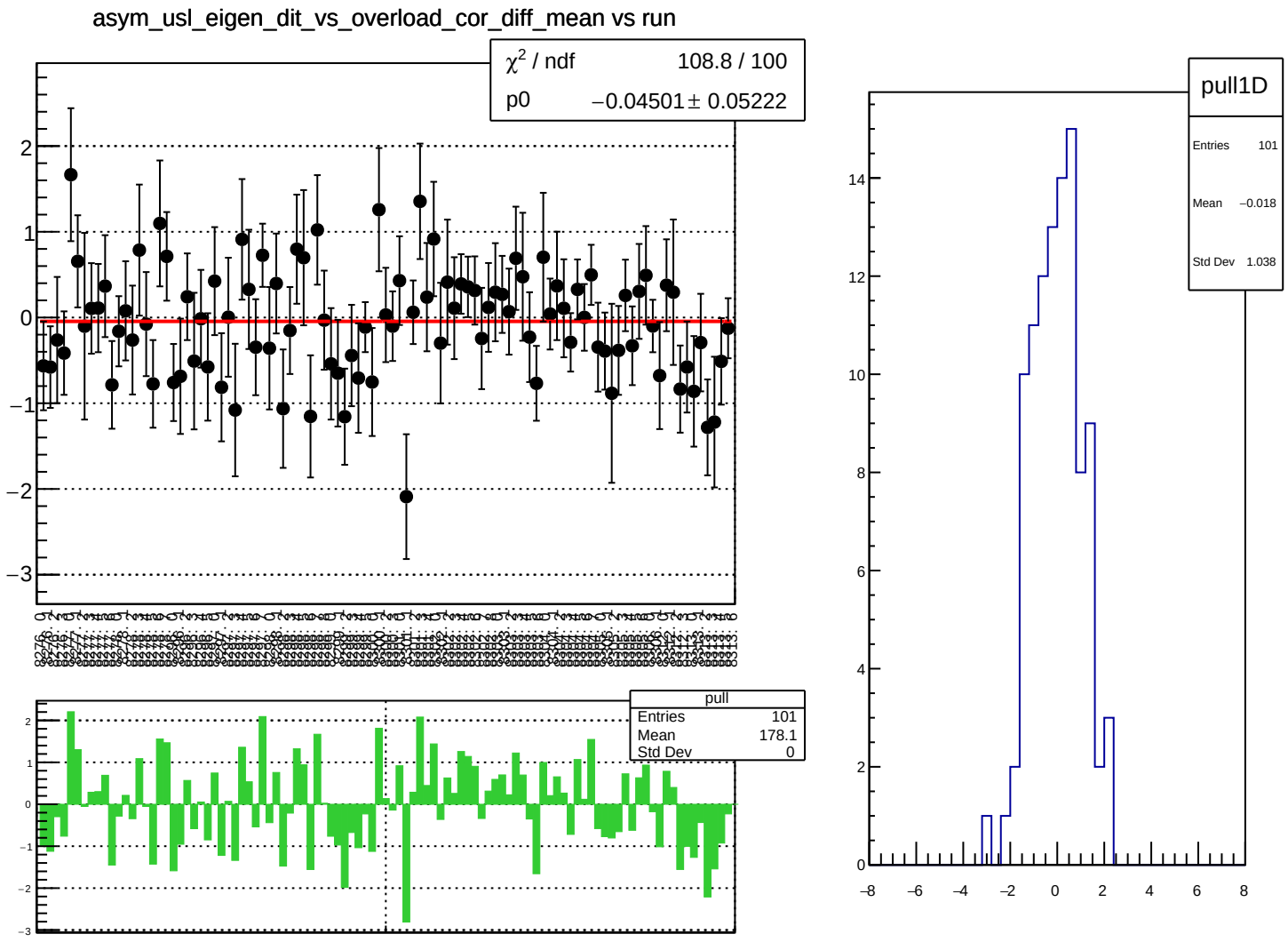

pull1D
Entries 101
Mean −0.07012
Std Dev 1.158

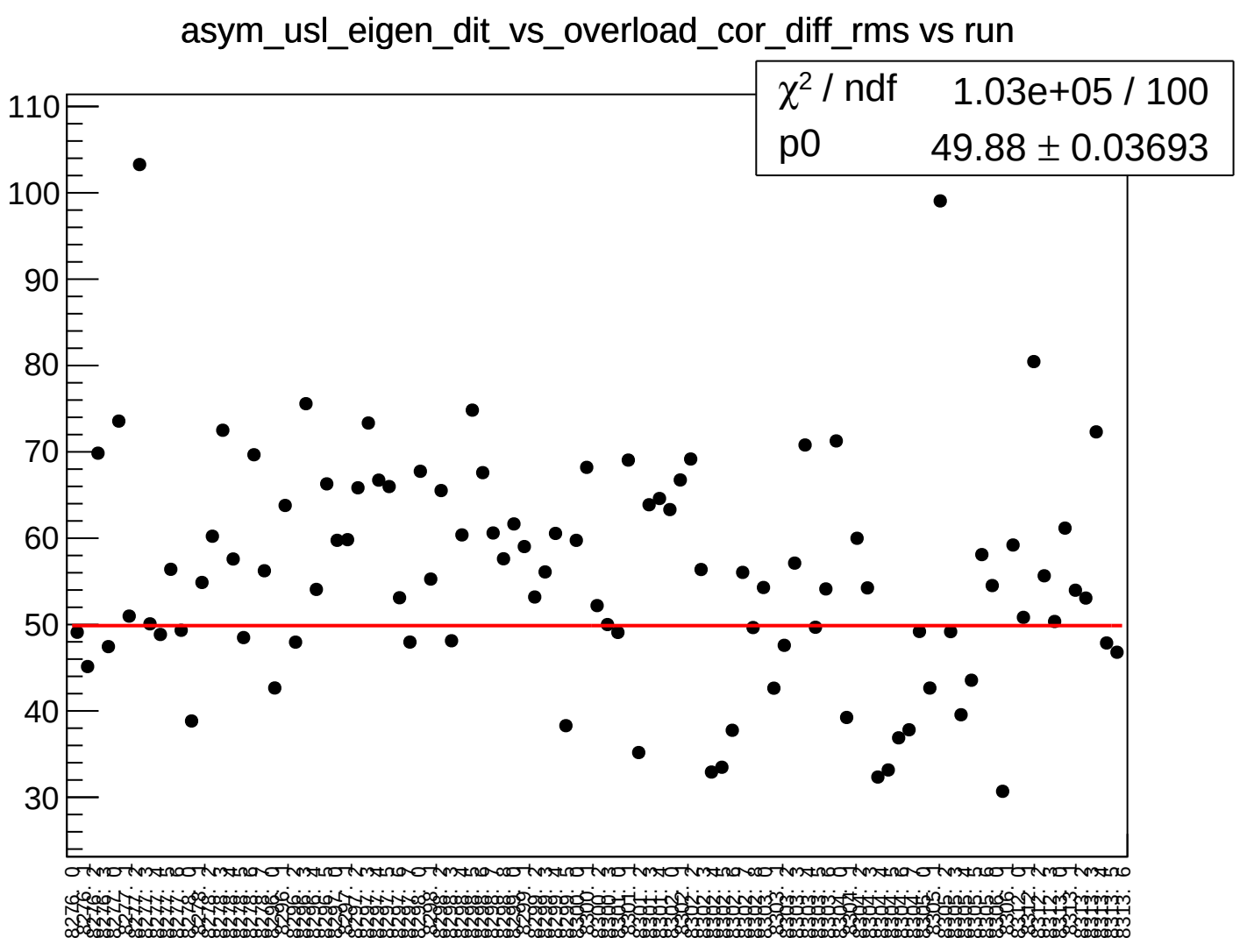

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.164e+05 / 100
p0 30.96 ± 0.02439
100
80
60
40
20

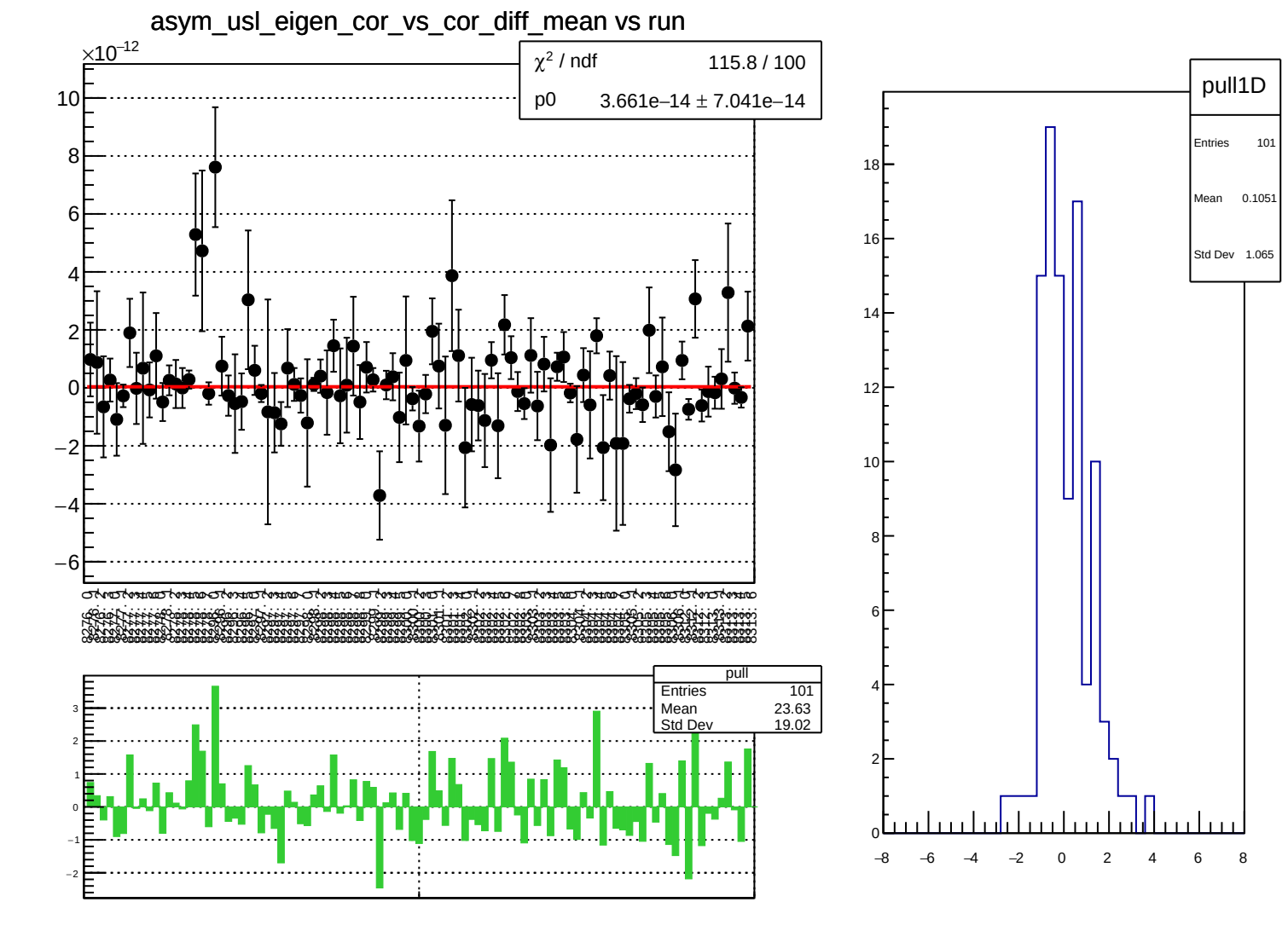

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 135.9 / 100
p0 −0.05715 ± 0.0345
pull
Entries 101
Mean 103.4
Std Dev 0

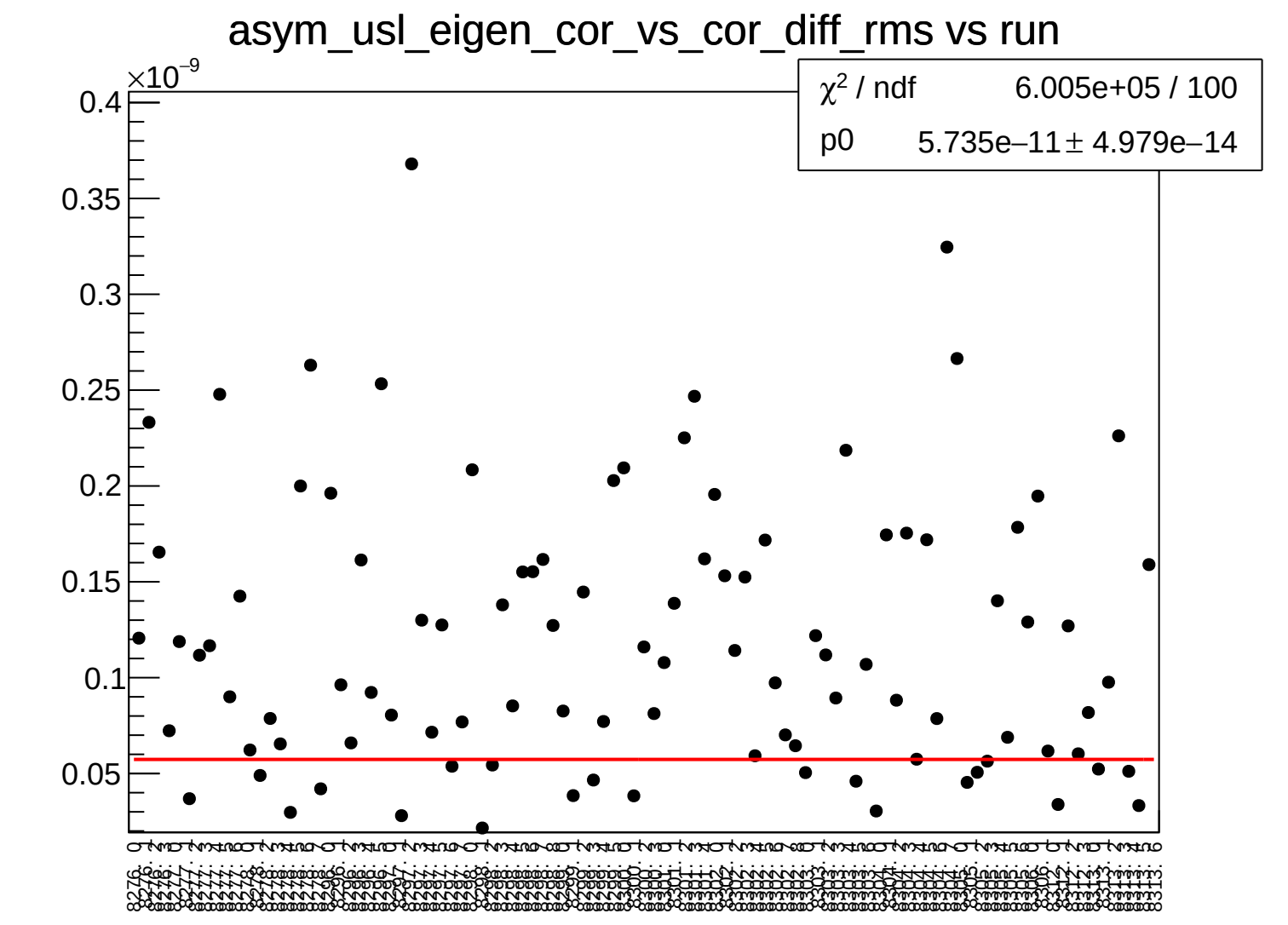

pull1D
Entries 101
Mean −0.07012
Std Dev 1.158

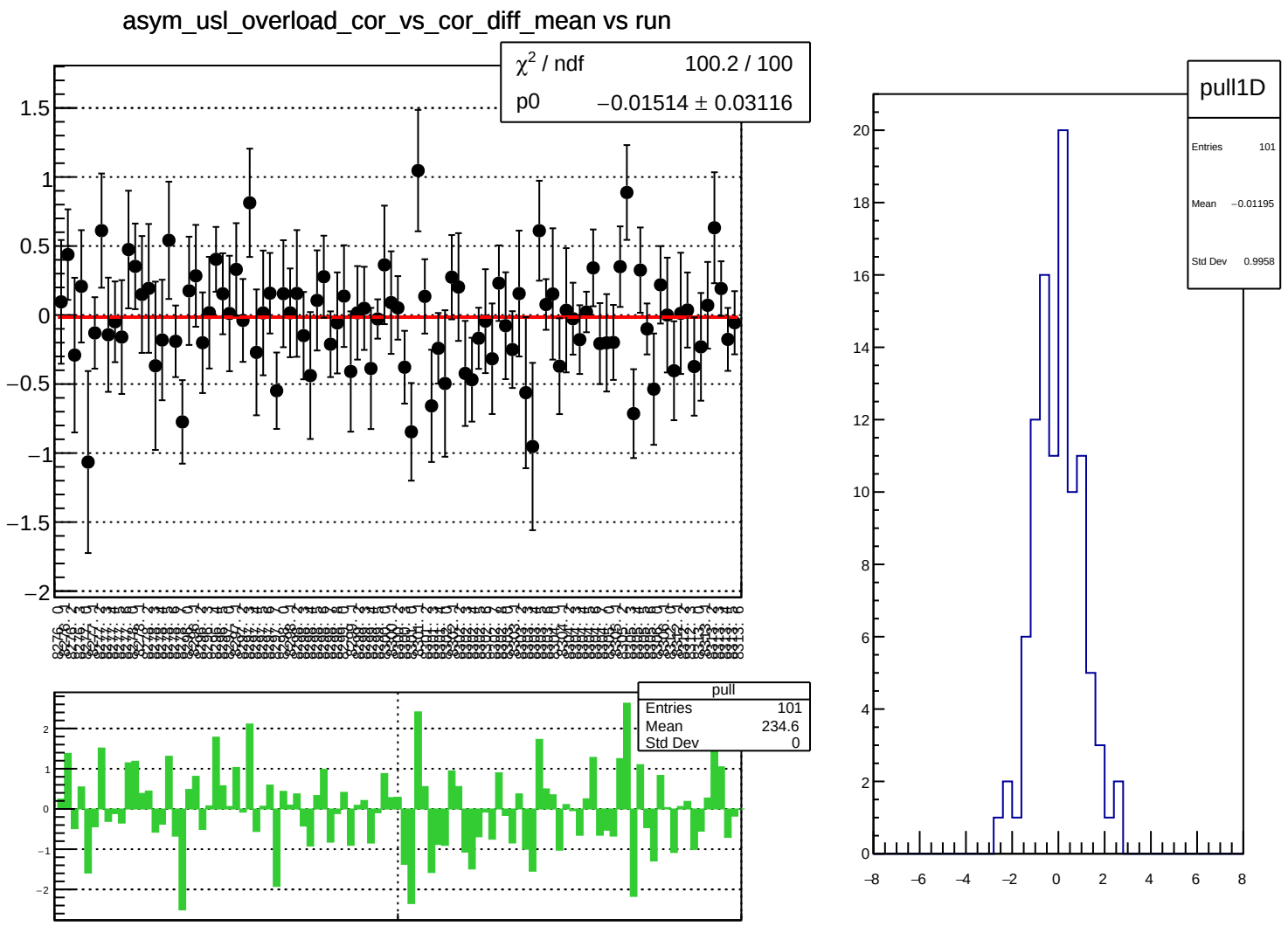

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.164e+05 / 100
p0 30.96 ± 0.02439
100
80
60
40
20

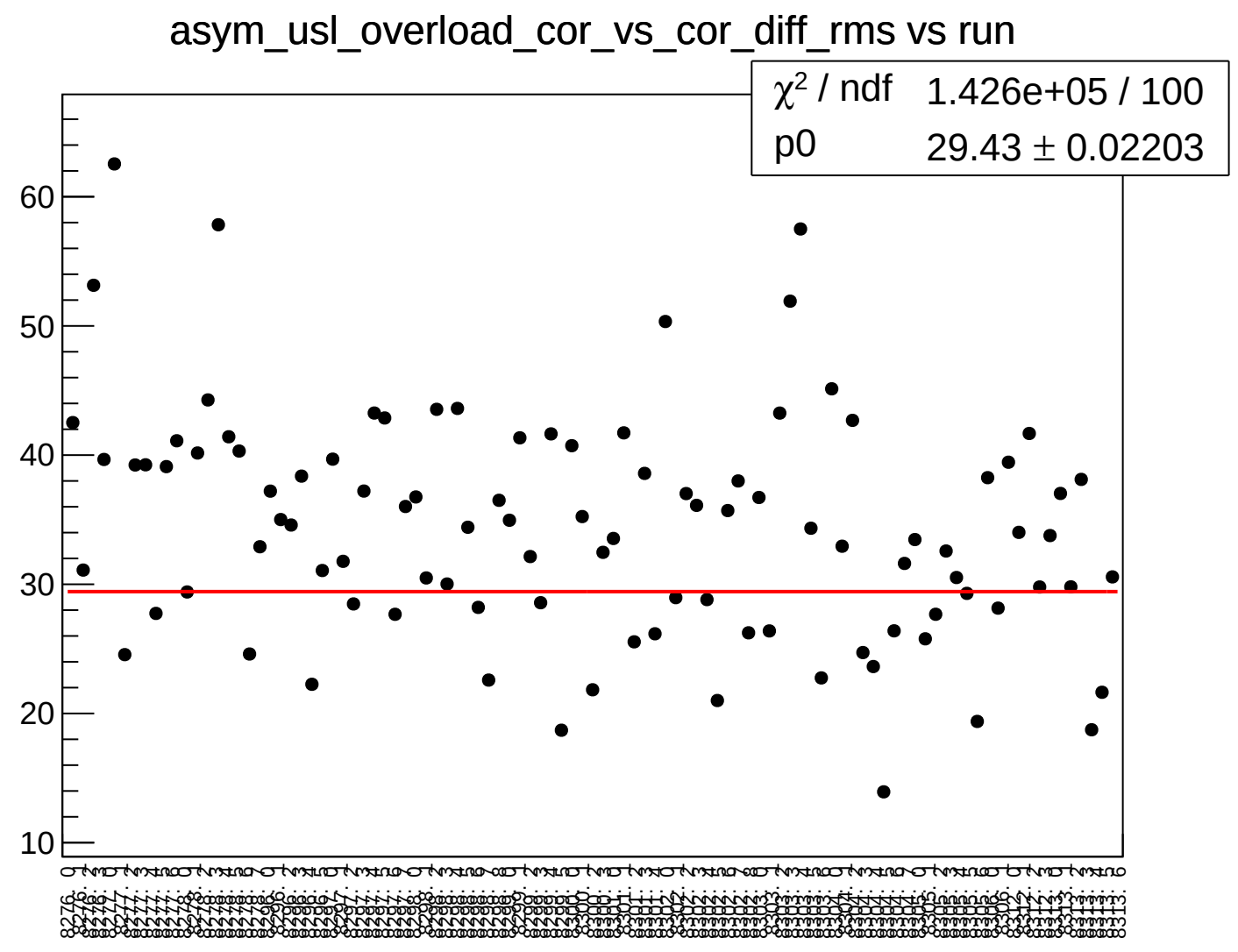

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 108.8 / 100
p0 −0.04501 ± 0.05222
pull
Entries 101
Mean 178.1
Std Dev 0
pull1D
Entries 101
Mean −0.018
Std Dev 1.038

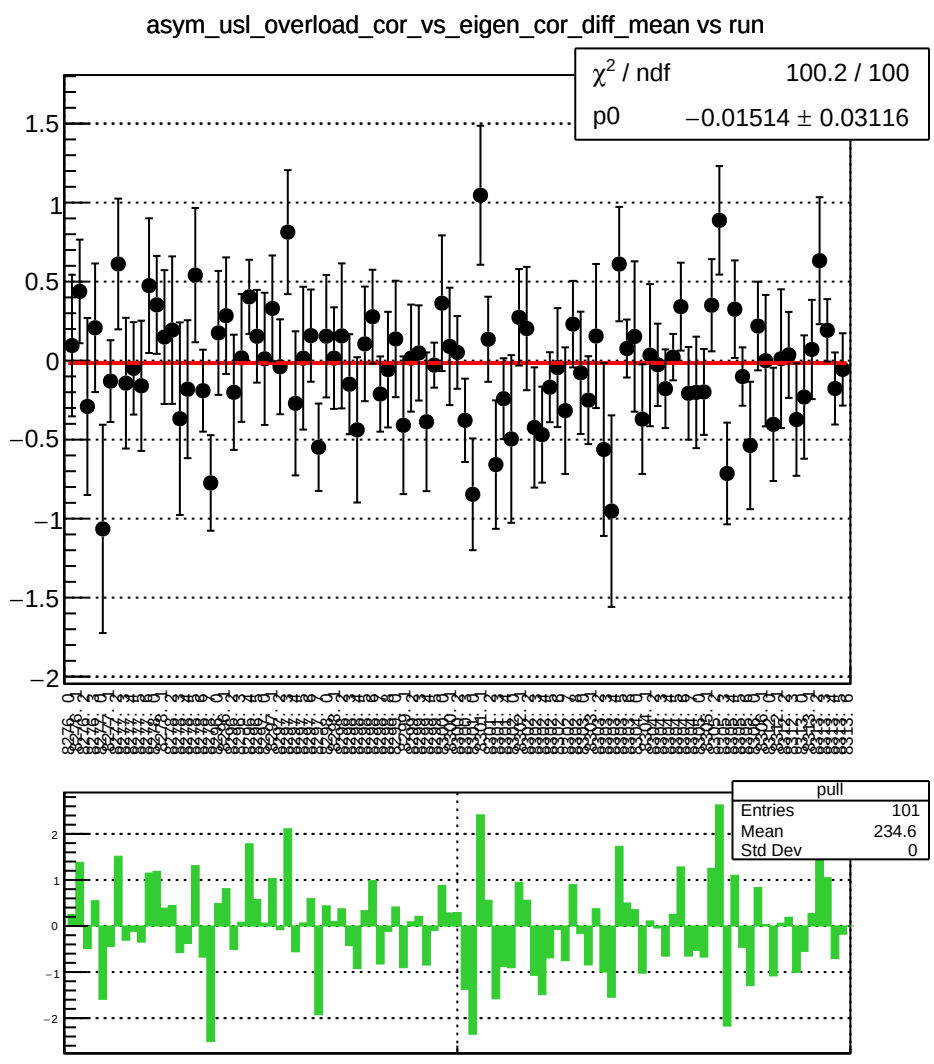

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.03e+05 / 100
p0 49.88 ± 0.03693
110
100
90
80
70
60
50
40
30

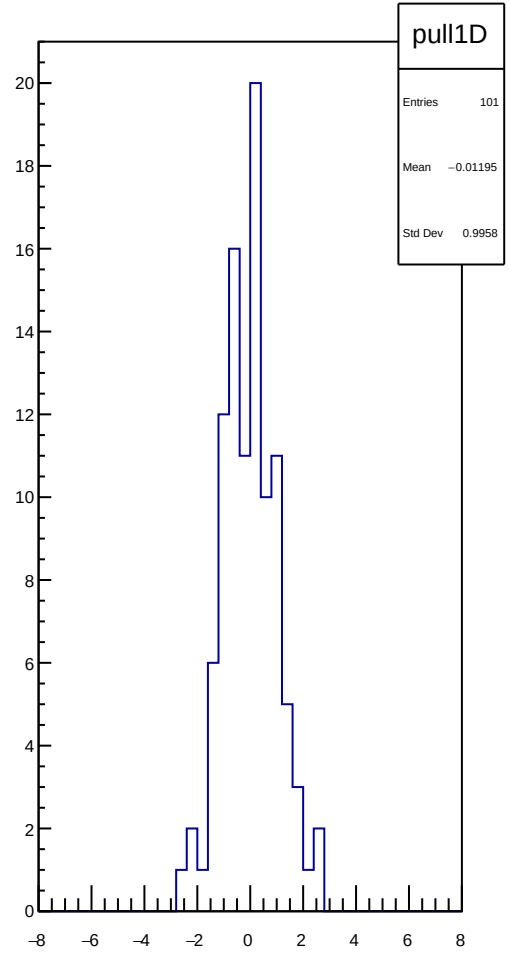

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 115.8 / 100
p0 3.661e−14 ± 7.041e−14
pull
Entries 101
Mean 23.63
Std Dev 19.02
pull1D
Entries 101
Mean 0.1051
Std Dev 1.065

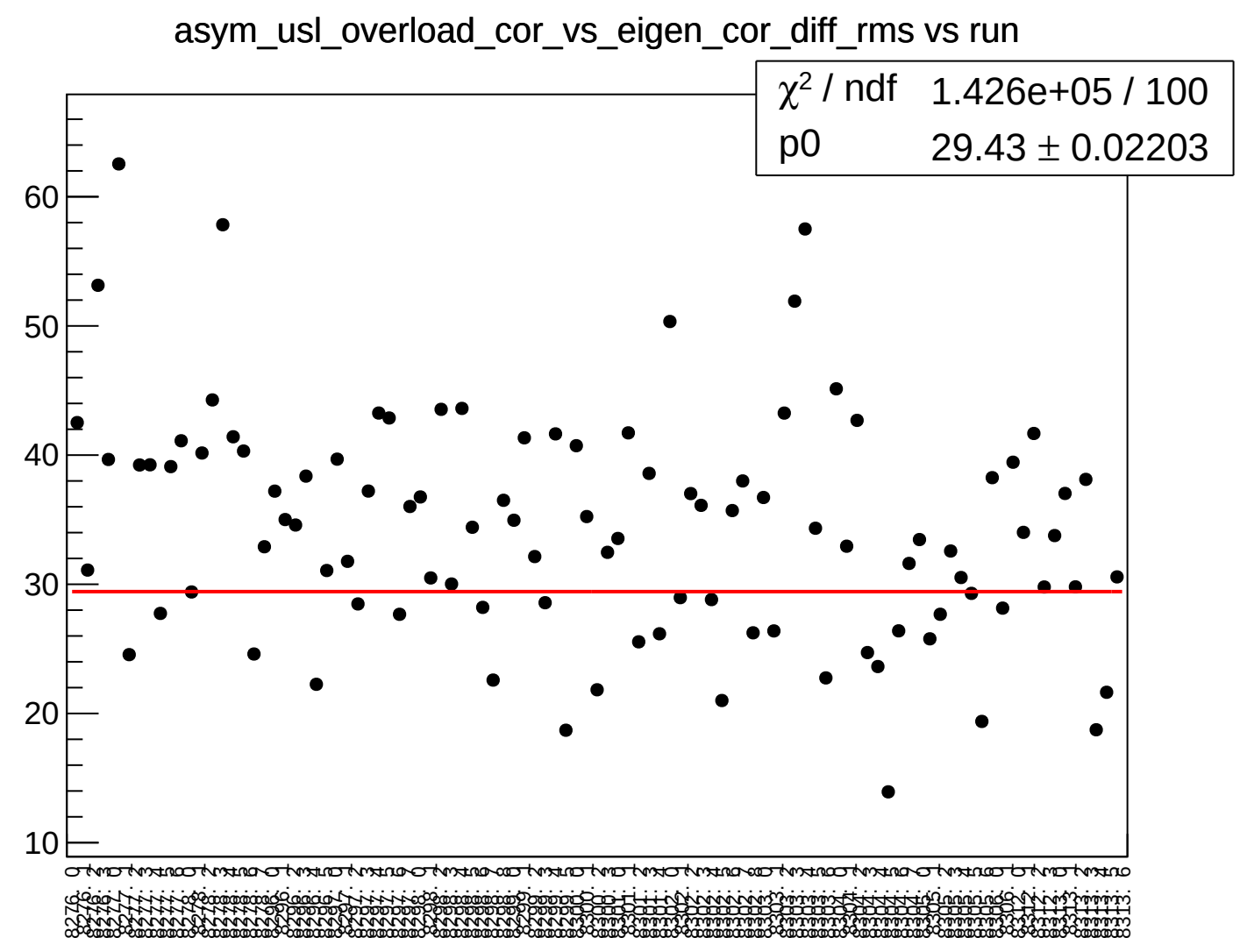

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.005e+05 / 100
p0 5.735e−11 ± 4.979e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

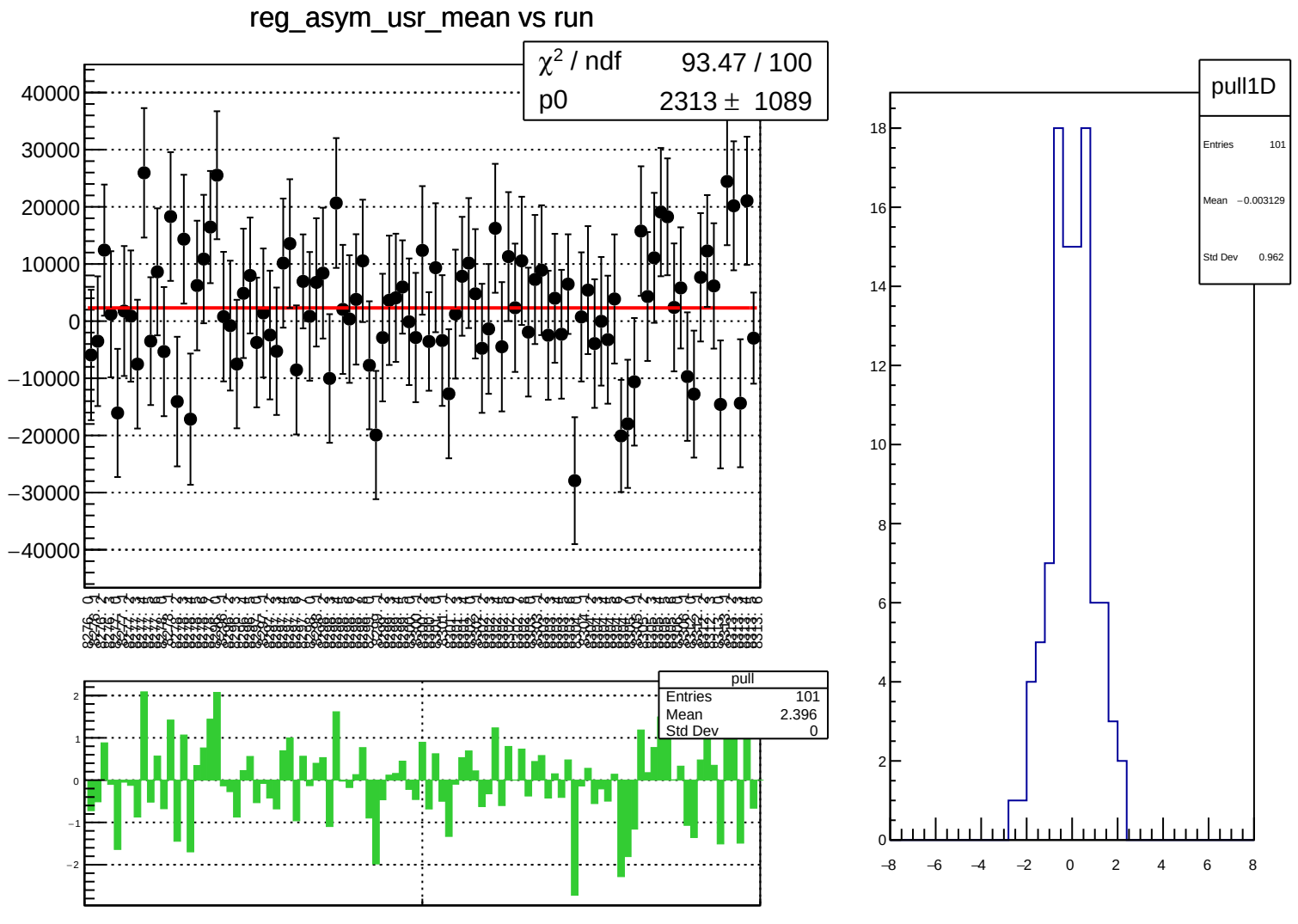

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 100.2 / 100
p0 −0.01514 ± 0.03116
pull
Entries 101
Mean 234.6
Std Dev 0
pull1D
Entries 101
Mean −0.01195
Std Dev 0.9958

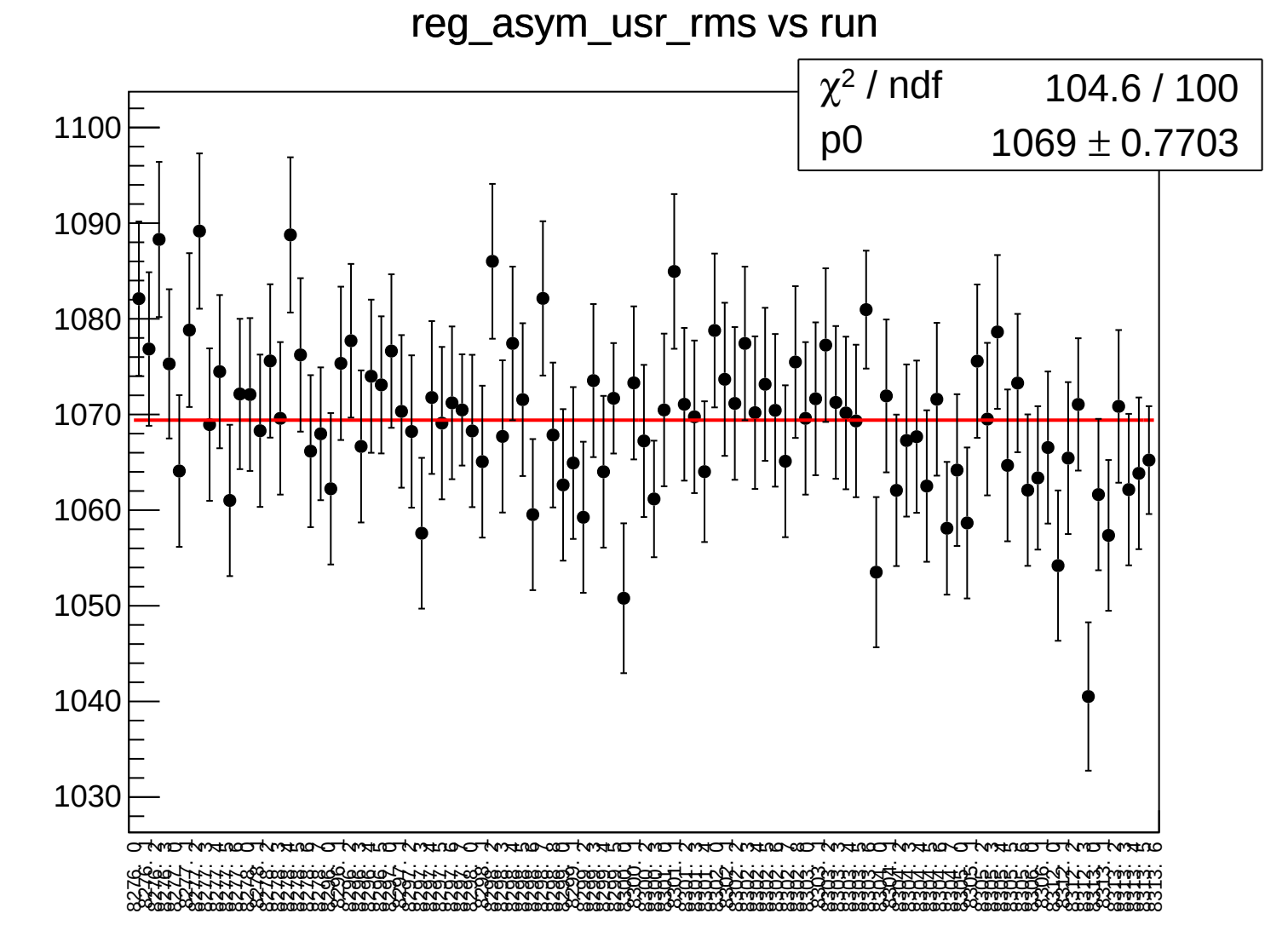

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.426e+05 / 100
p0 29.43 ± 0.02203
60
50
40
30
20
10

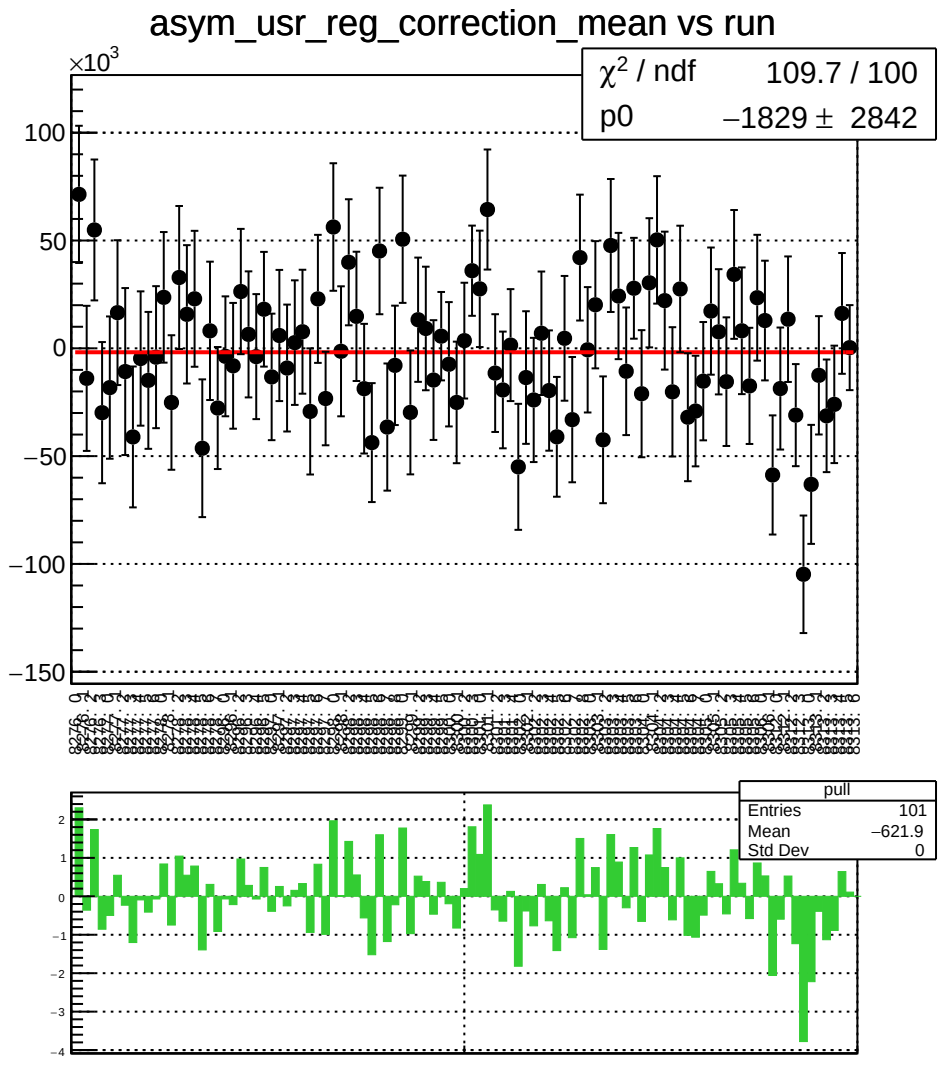

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.2 / 100
p0 −0.01514 ± 0.03116
pull
Entries 101
Mean 234.6
Std Dev 0

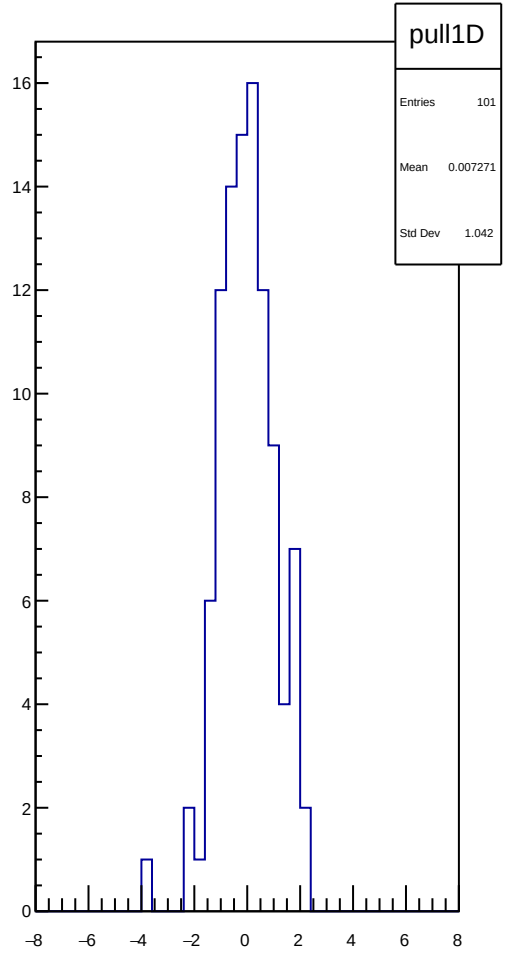

pull1D
Entries 101
Mean −0.01195
Std Dev 0.9958


asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.426e+05 / 100
p0 29.43 ± 0.02203
60
50
40
30
20
10


reg_asym_usr_mean vs run
χ² / ndf 93.47 / 100
p0 2313 ± 1089
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 101
Mean 2.396
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.003129
Std Dev 0.962
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 104.6 / 100
p0 1069 ± 0.7703
1100
1090
1080
1070
1060
1050
1040
1030


asym_usr_reg_correction_mean vs run
×10^3
χ^2 / ndf 109.7 / 100
p0 −1829 ± 2842
100
50
0
−50
−100
−150
pull
Entries 101
Mean −621.9
Std Dev 0
2
1
0
−1
−2
−3
−4


pull1D
Entries 101
Mean 0.007271
Std Dev 1.042
16
14
12
10
8
6
4
2
0
−8
−6
−4
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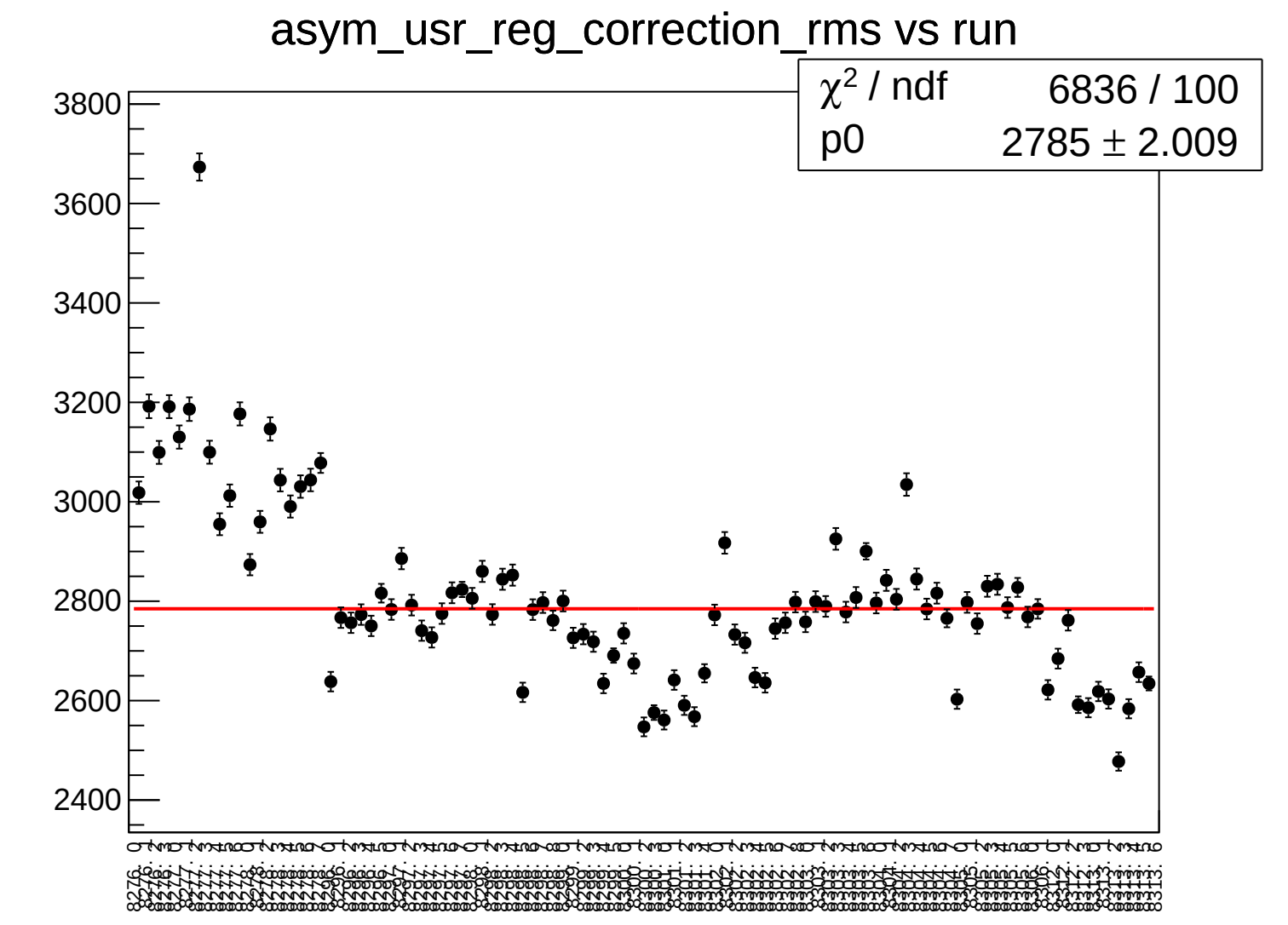
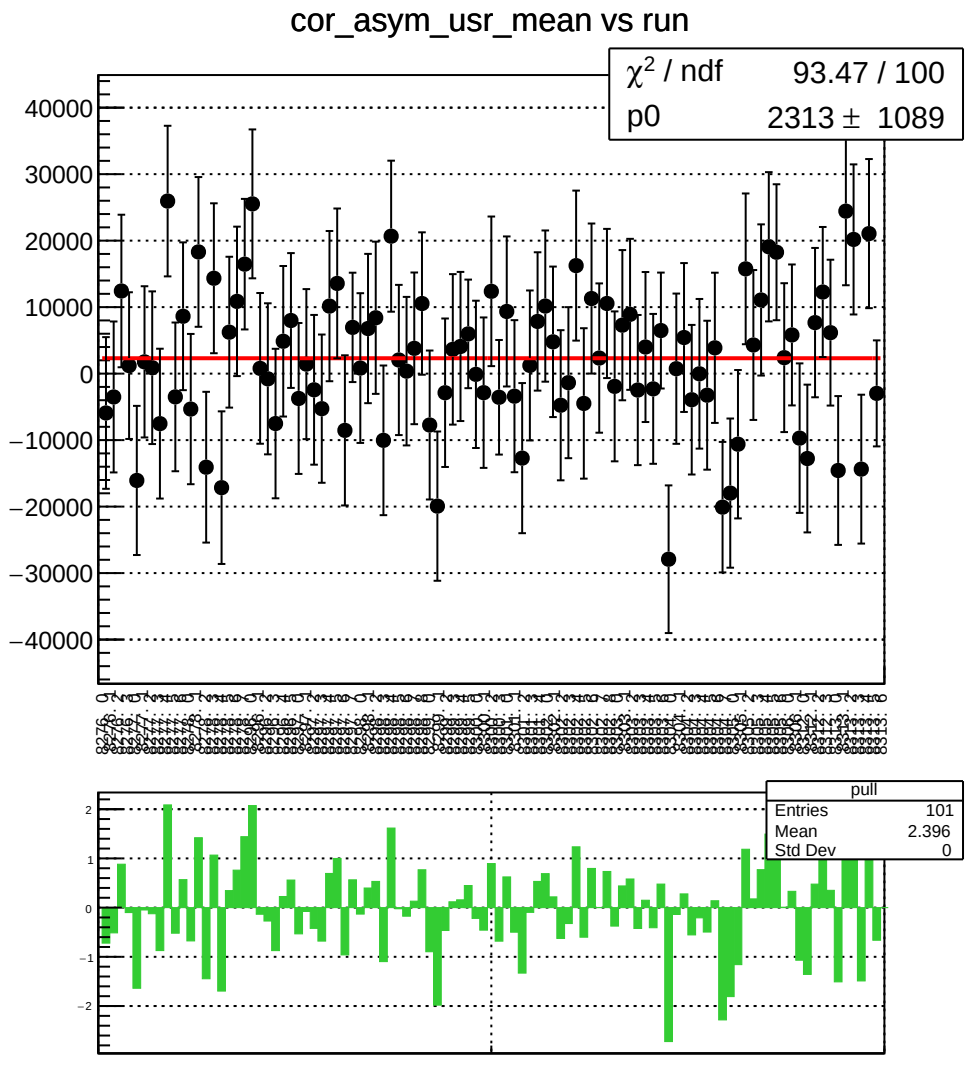
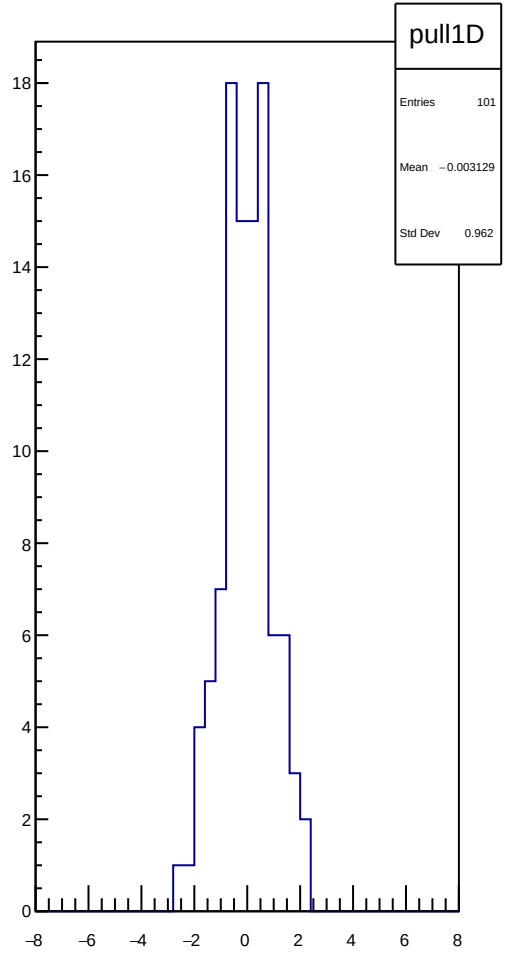
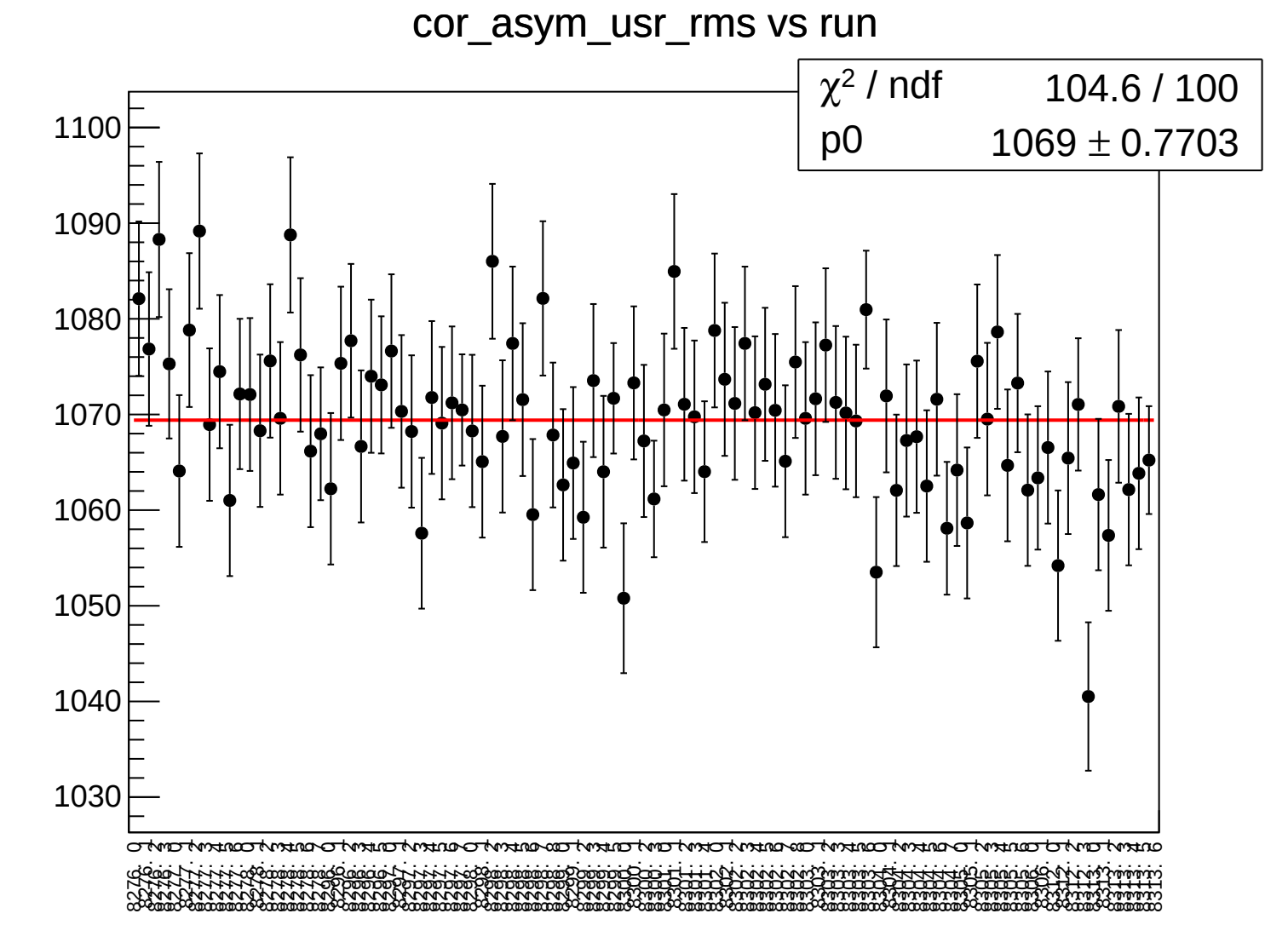
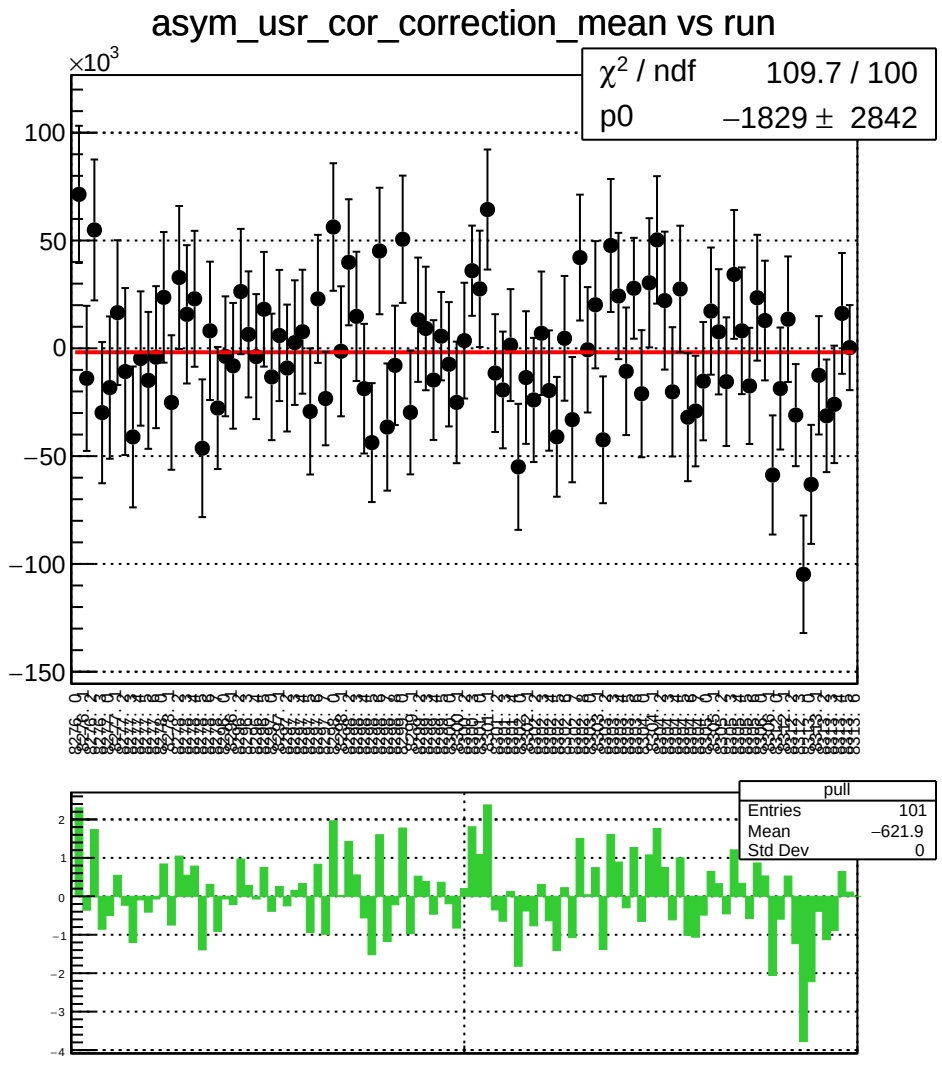
0
2
4
6
8

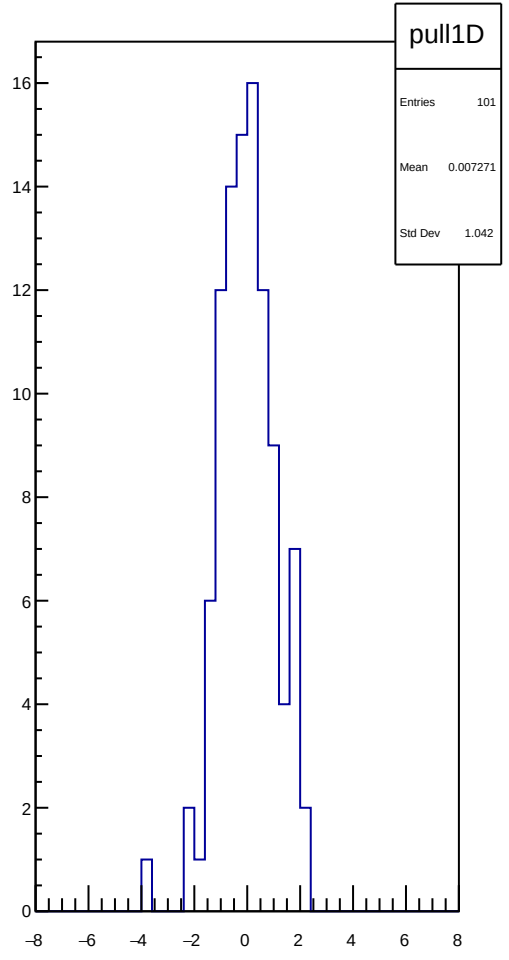

asym_usr_reg_correction_rms vs run
χ^2 / ndf 6836 / 100
p0 2785 ± 2.009
3800
3600
3400
3200
3000
2800
2600
2400


cor_asym_usr_mean vs run
χ² / ndf 93.47 / 100
p0 2313 ± 1089
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 101
Mean 2.396
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 101
Mean −0.003129
Std Dev 0.962
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 104.6 / 100
p0 1069 ± 0.7703
1100
1090
1080
1070
1060
1050
1040
1030


asym_usr_cor_correction_mean vs run
×10^3
χ^2 / ndf 109.7 / 100
p0 −1829 ± 2842
100
50
0
−50
−100
−150
pull
Entries 101
Mean −621.9
Std Dev 0
2
1
0
−1
−2
−3
−4


pull1D
Entries 101
Mean 0.007271
Std Dev 1.042
16
14
12
10
8
6
4
2
0
−8
−6
−4
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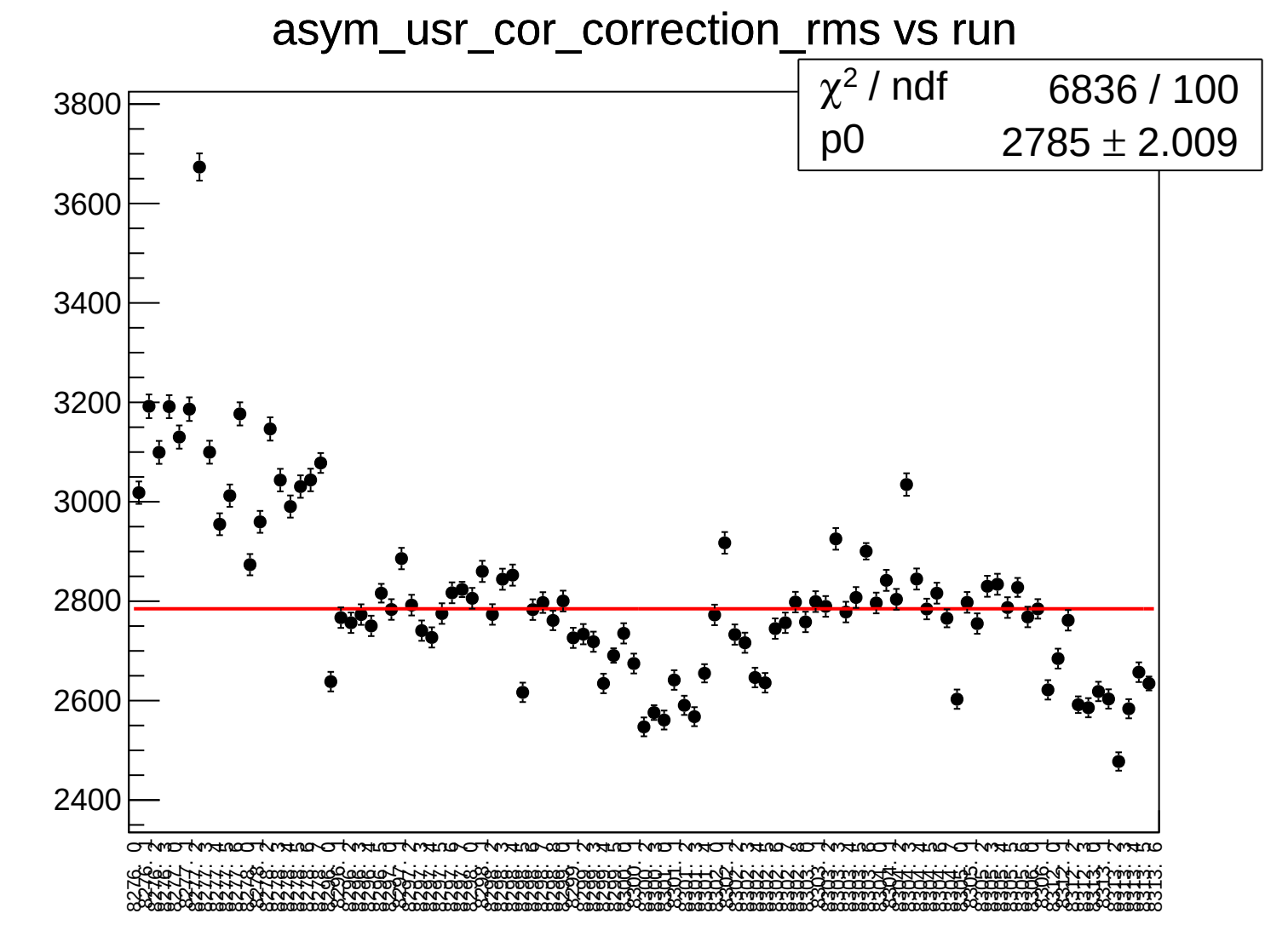
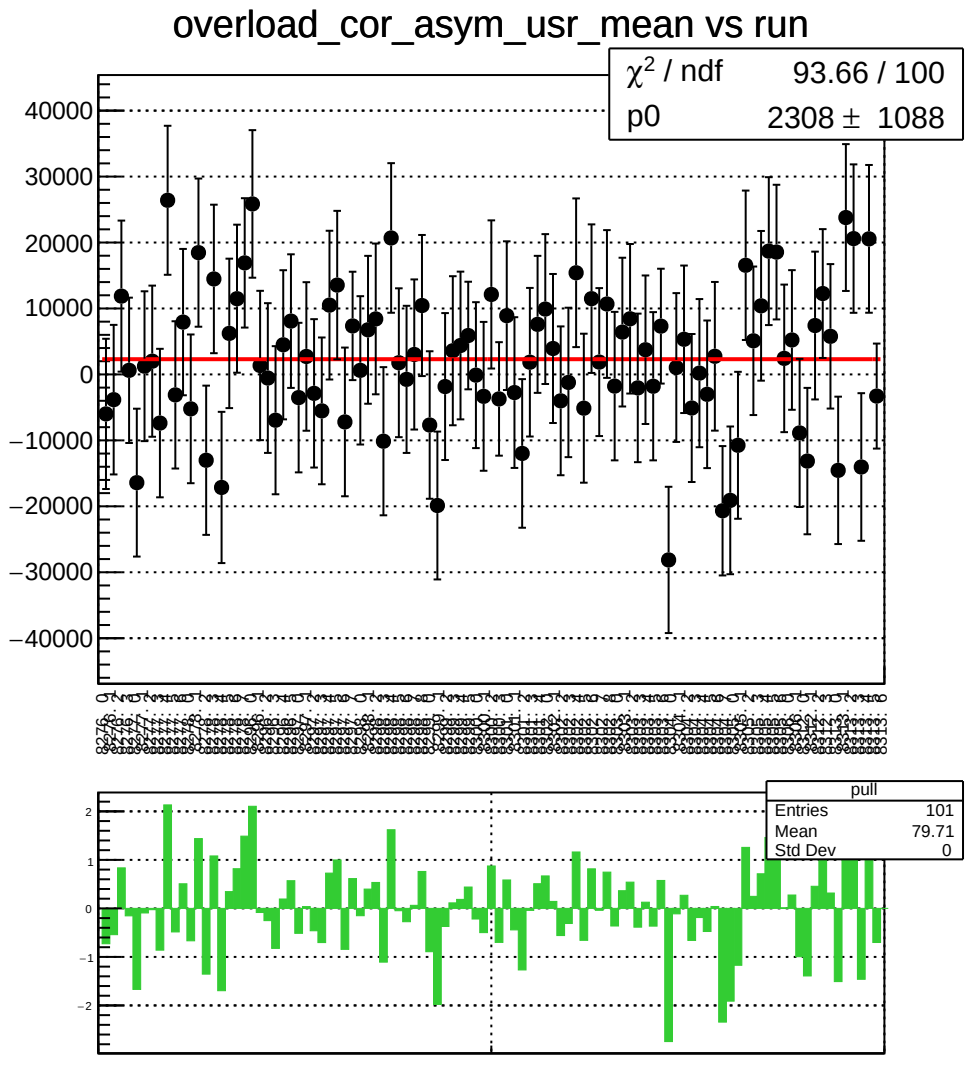
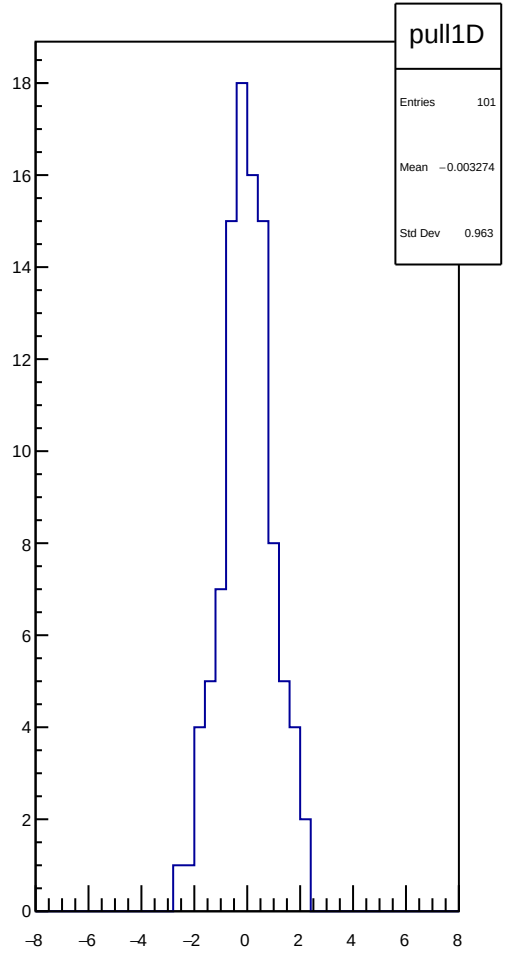
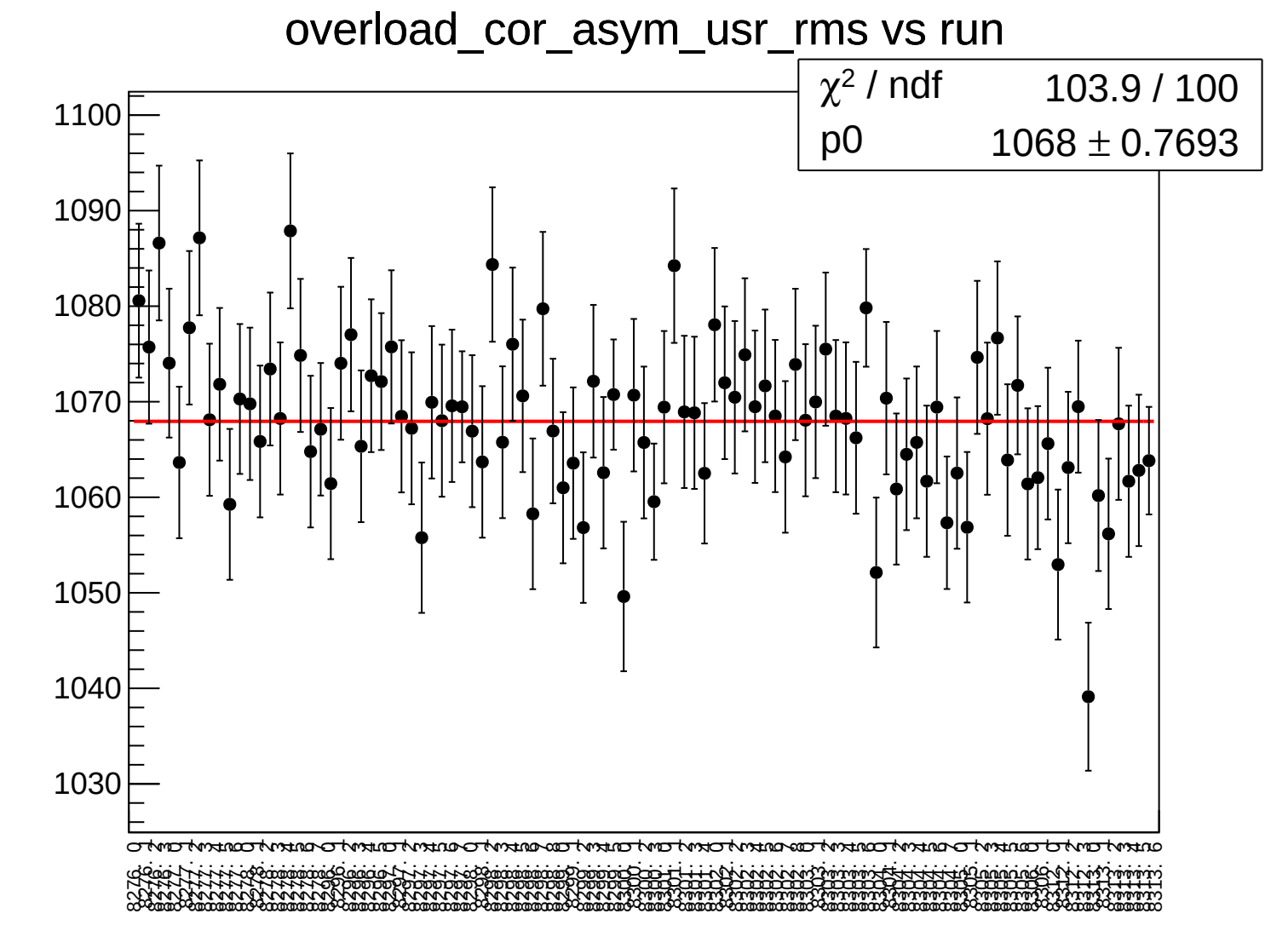
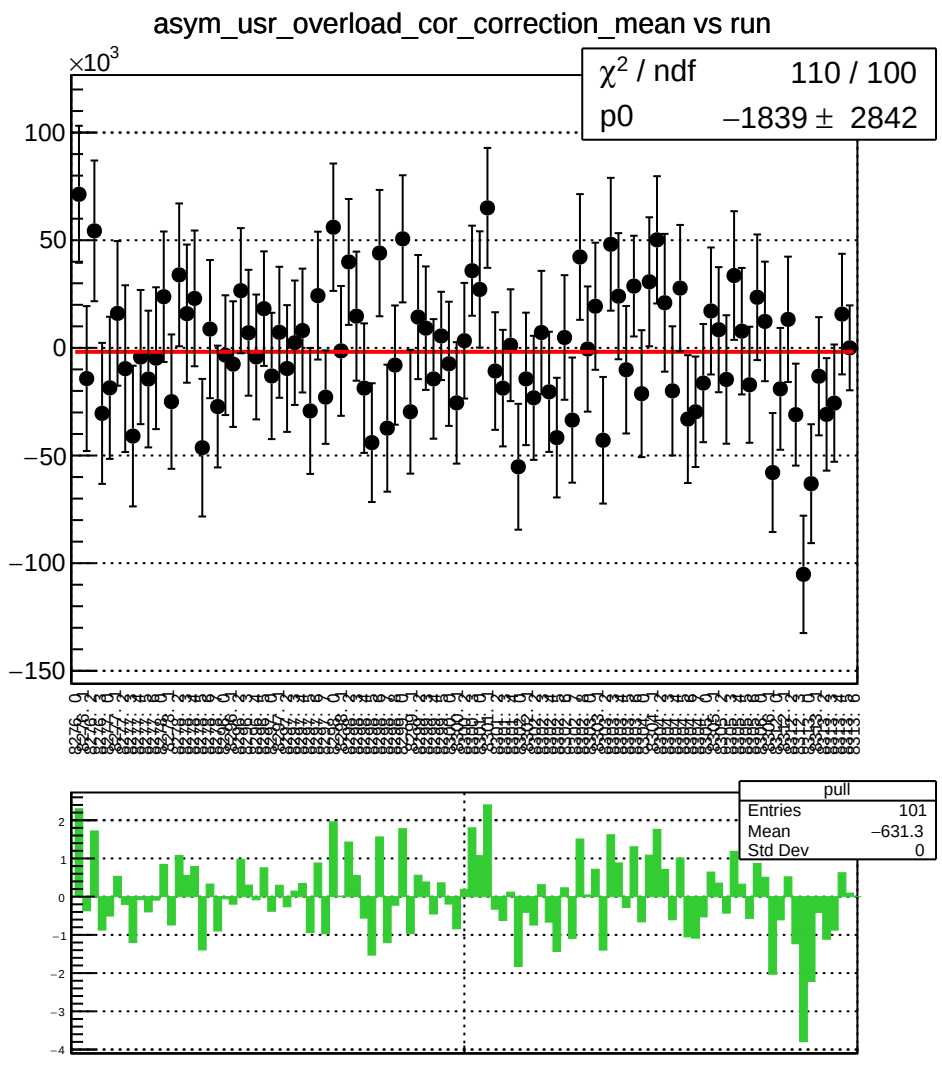
0
2
4
6
8

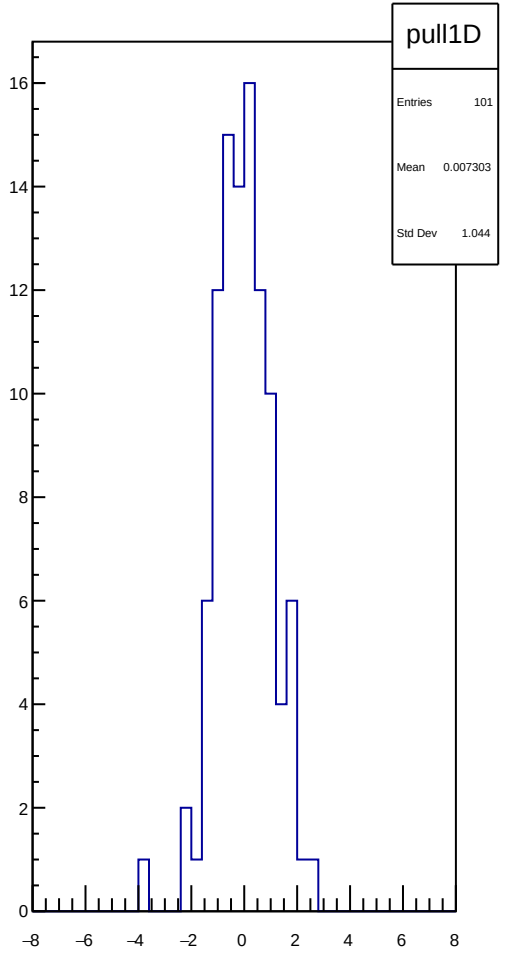

asym_usr_cor_correction_rms vs run
χ^2 / ndf 6836 / 100
p0 2785 ± 2.009
3800
3600
3400
3200
3000
2800
2600
2400

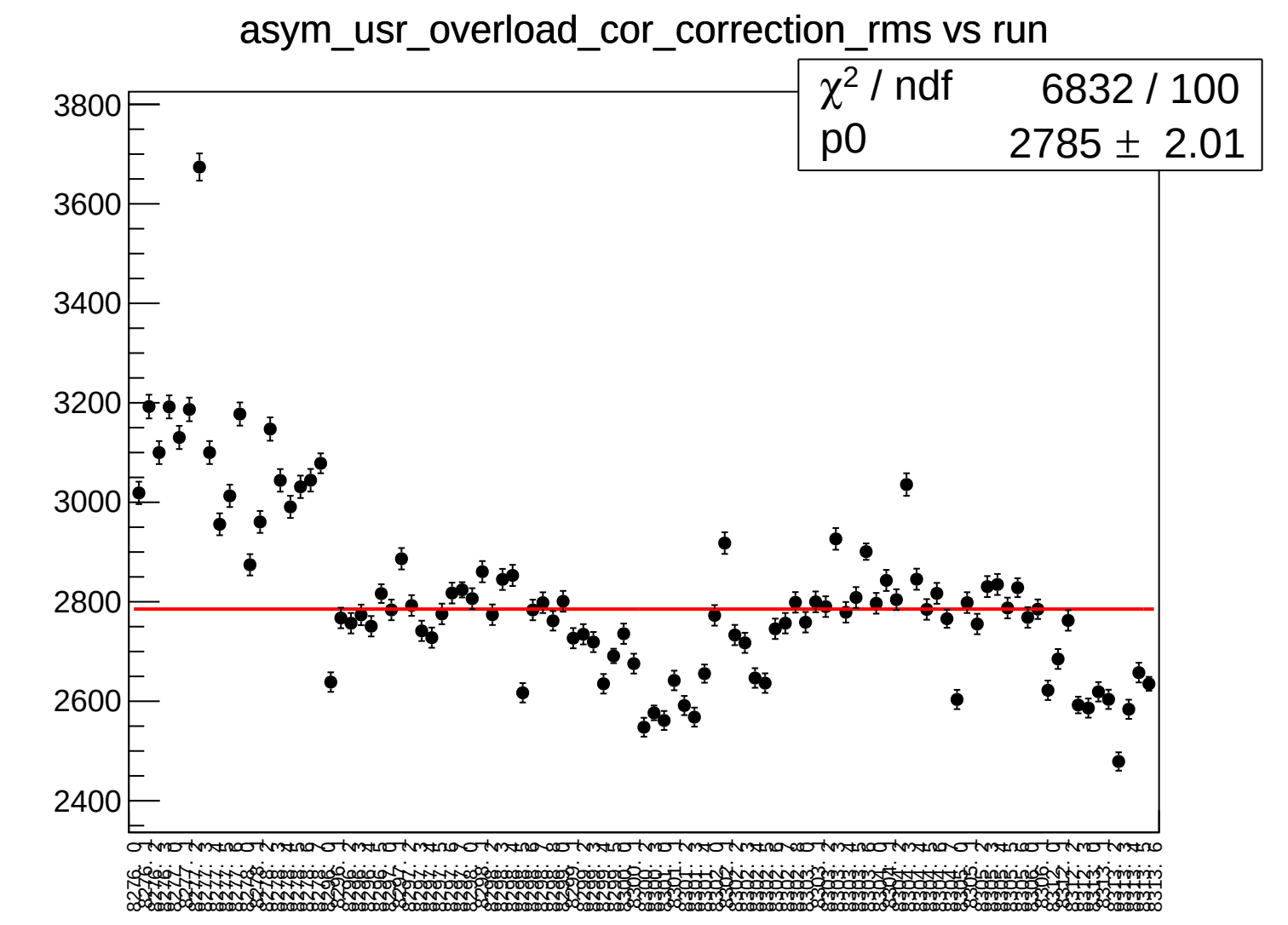

overload_cor_asym_usr_mean vs run
χ² / ndf 93.66 / 100
p0 2308 ± 1088
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 101
Mean 79.71
Std Dev 0
2
1
0
−1
−2

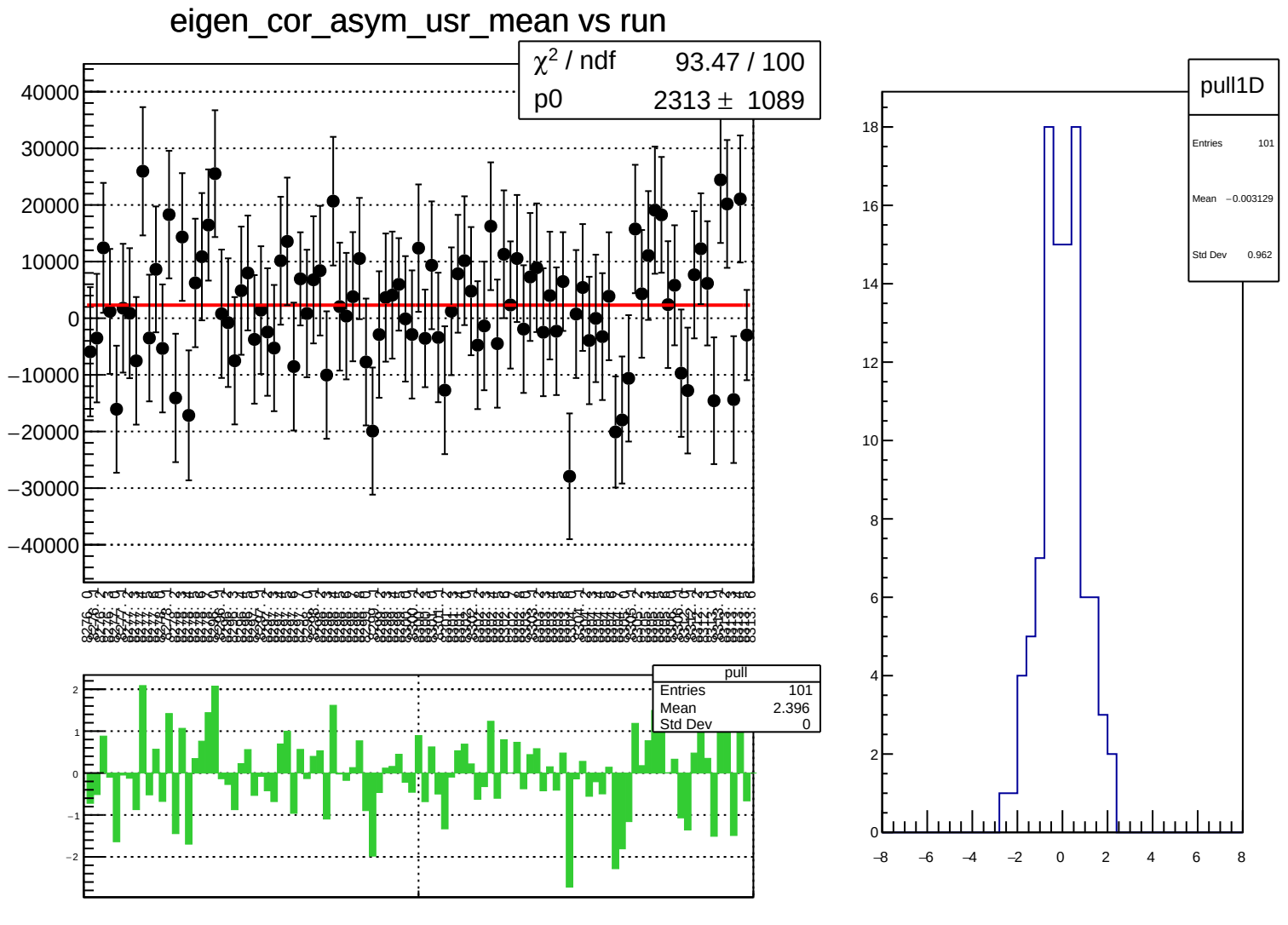

pull1D
Entries 101
Mean −0.003274
Std Dev 0.963
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

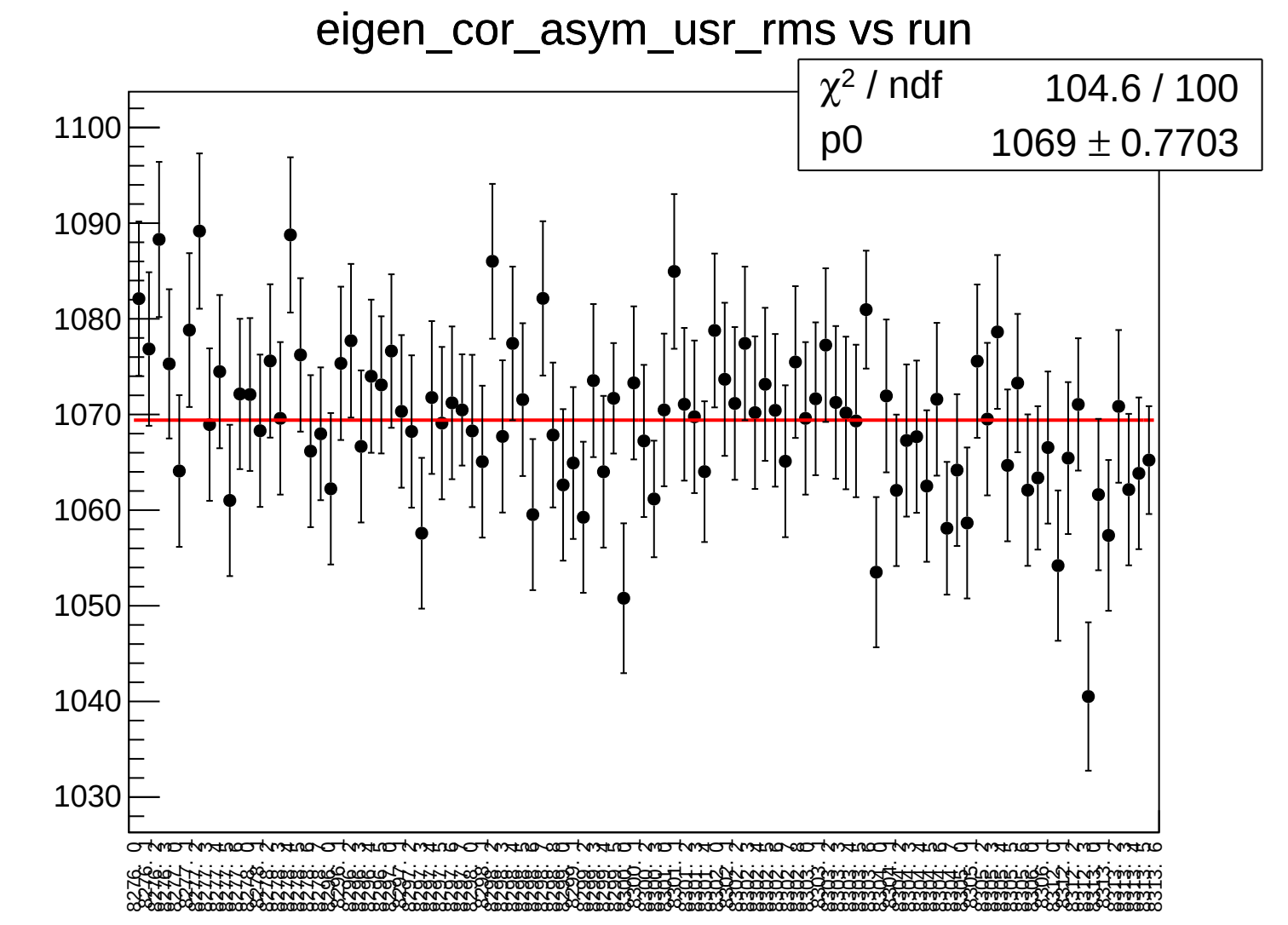

overload_cor_asym_usr_rms vs run
χ² / ndf 103.9 / 100
p0 1068 ± 0.7693
1100
1090
1080
1070
1060
1050
1040
1030

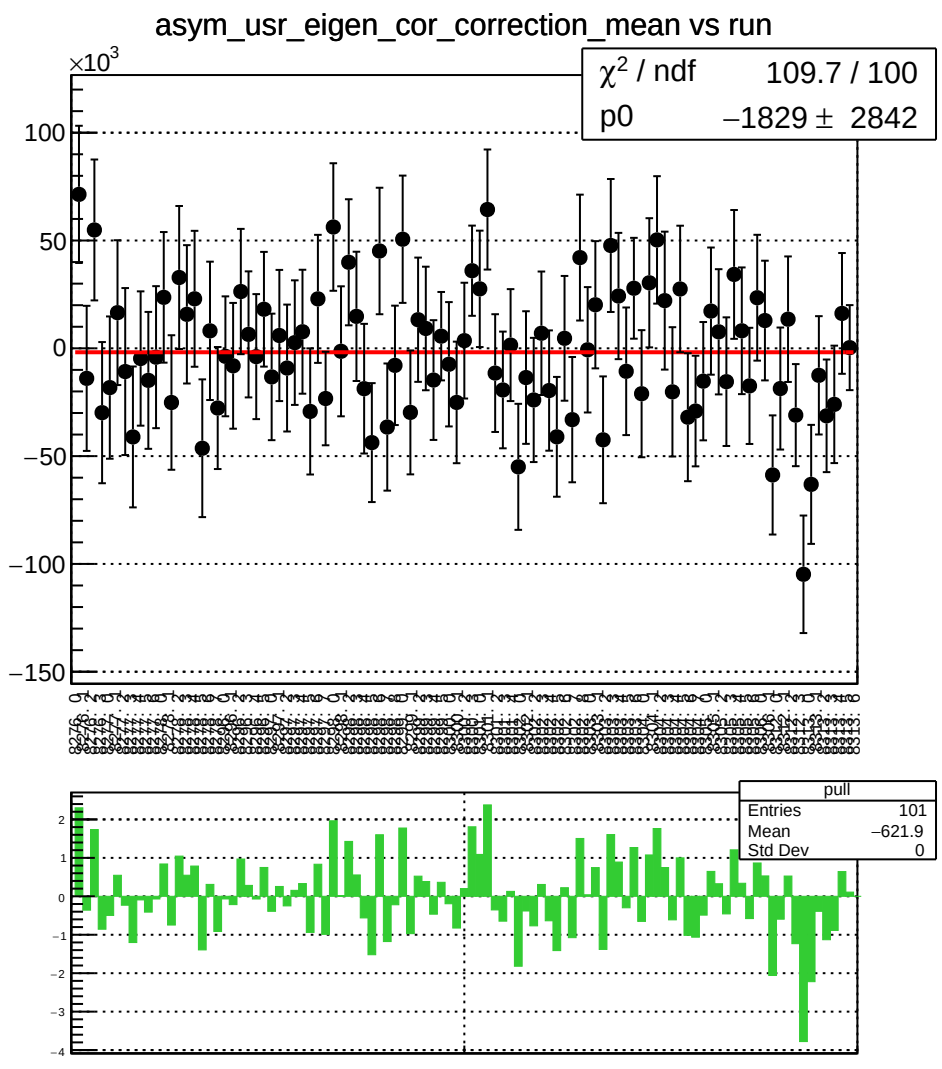

asym_usr_overload_cor_correction_mean vs run
×10^3
χ^2 / ndf 110 / 100
p0 −1839 ± 2842
100
50
0
−50
−100
−150
pull
Entries 101
Mean −631.3
Std Dev 0
2
1
0
−1
−2
−3
−4

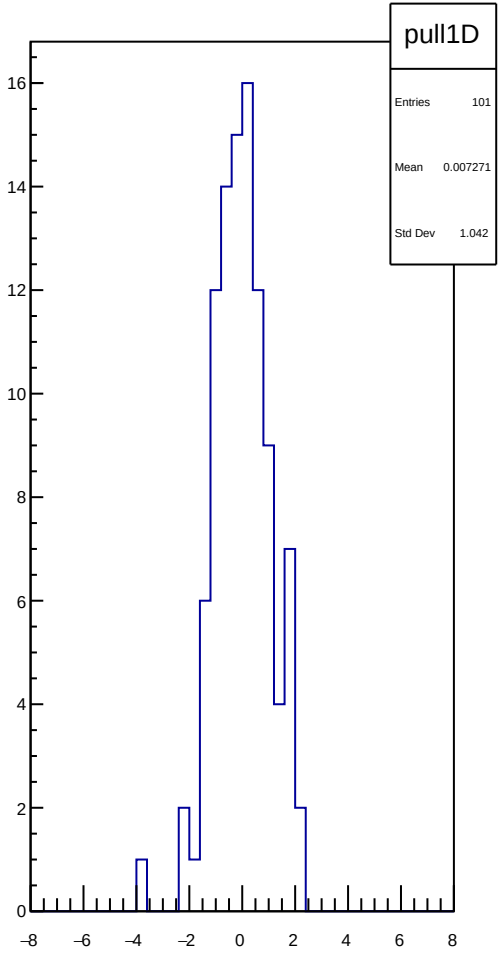

pull1D
Entries 101
Mean 0.007303
Std Dev 1.044
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

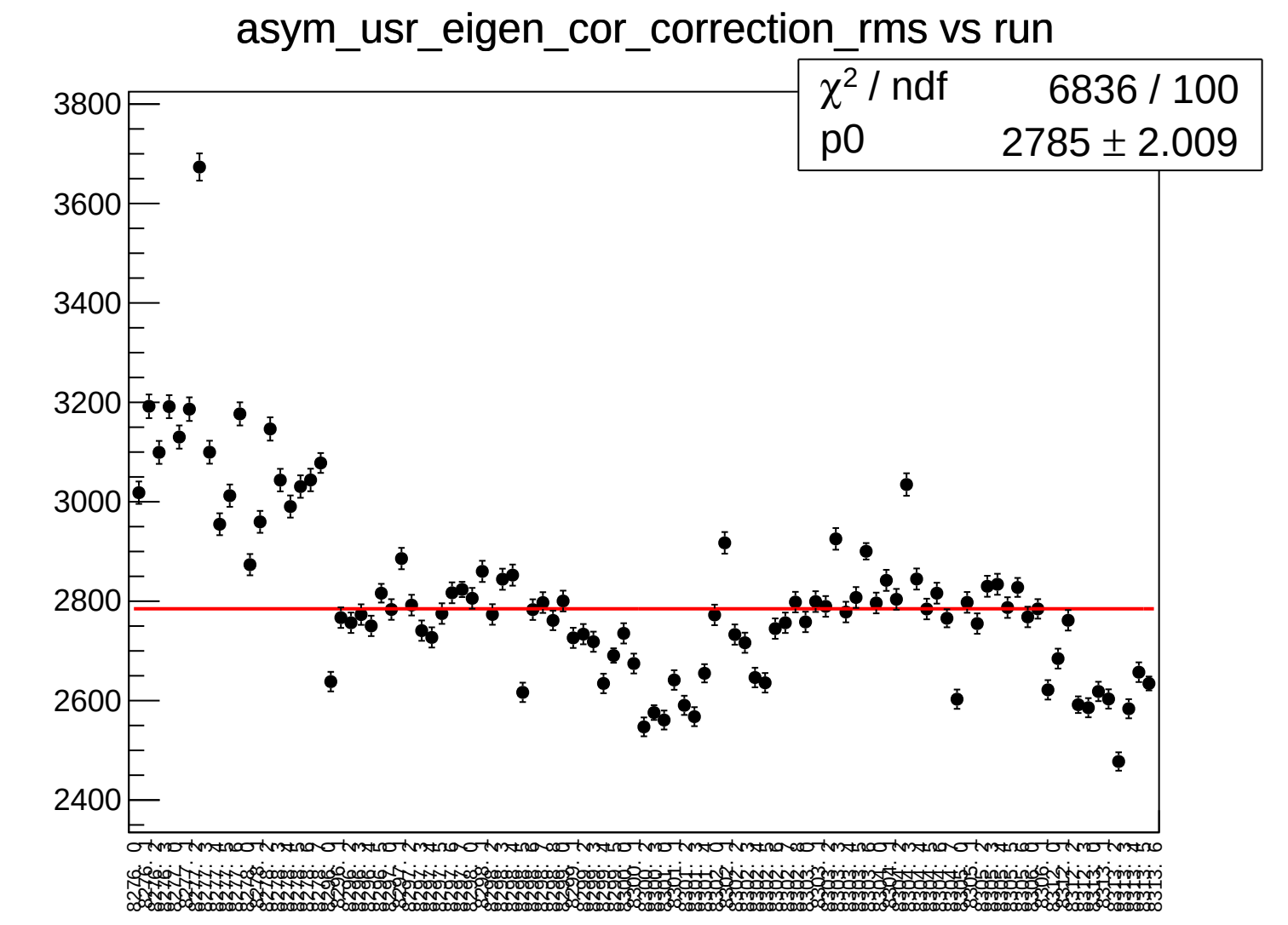

asym_usr_overload_cor_correction_rms vs run
χ² / ndf 6832 / 100
p0 2785 ± 2.01
3800
3600
3400
3200
3000
2800
2600
2400

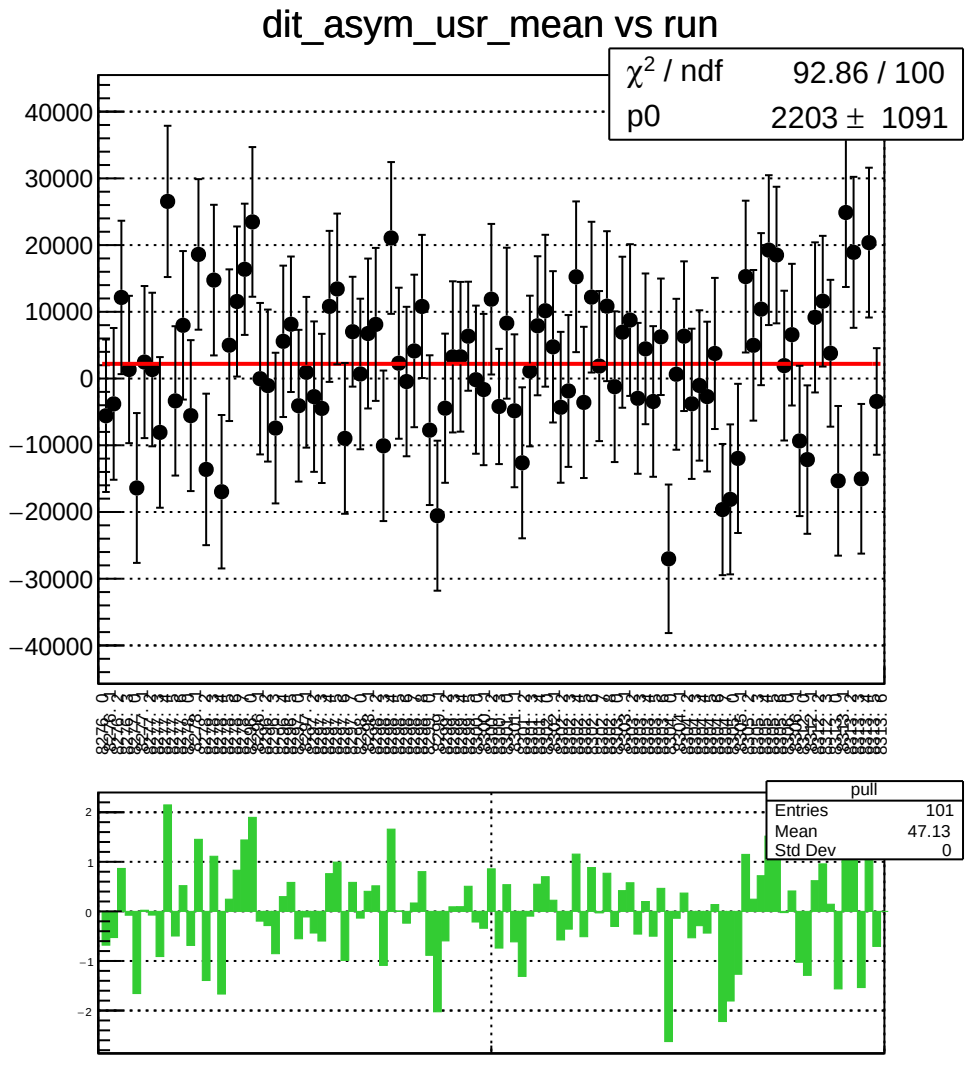

eigen_cor_asym_usr_mean vs run
χ² / ndf 93.47 / 100
p0 2313 ± 1089
pull
Entries 101
Mean 2.396
Std Dev 0
pull1D
Entries 101
Mean −0.003129
Std Dev 0.962

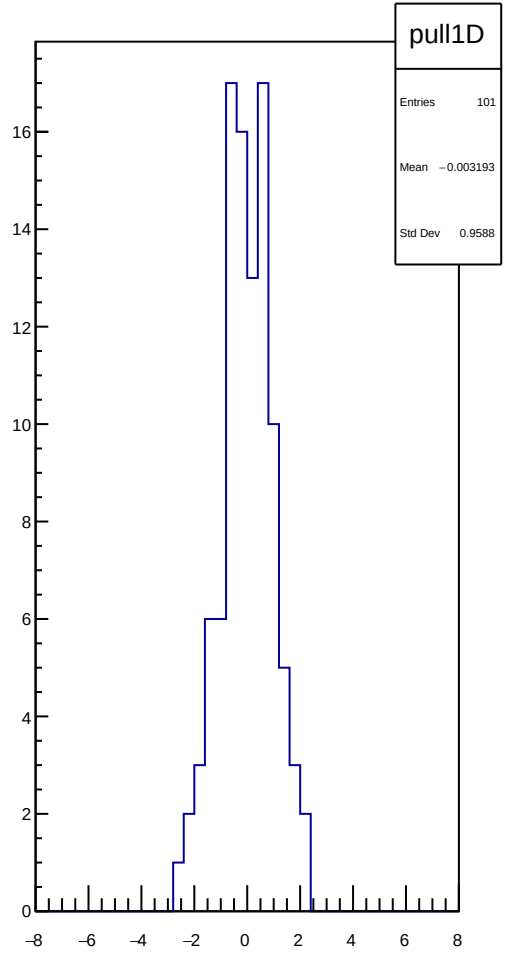

eigen_cor_asym_usr_rms vs run
χ² / ndf 104.6 / 100
p0 1069 ± 0.7703
1100
1090
1080
1070
1060
1050
1040
1030

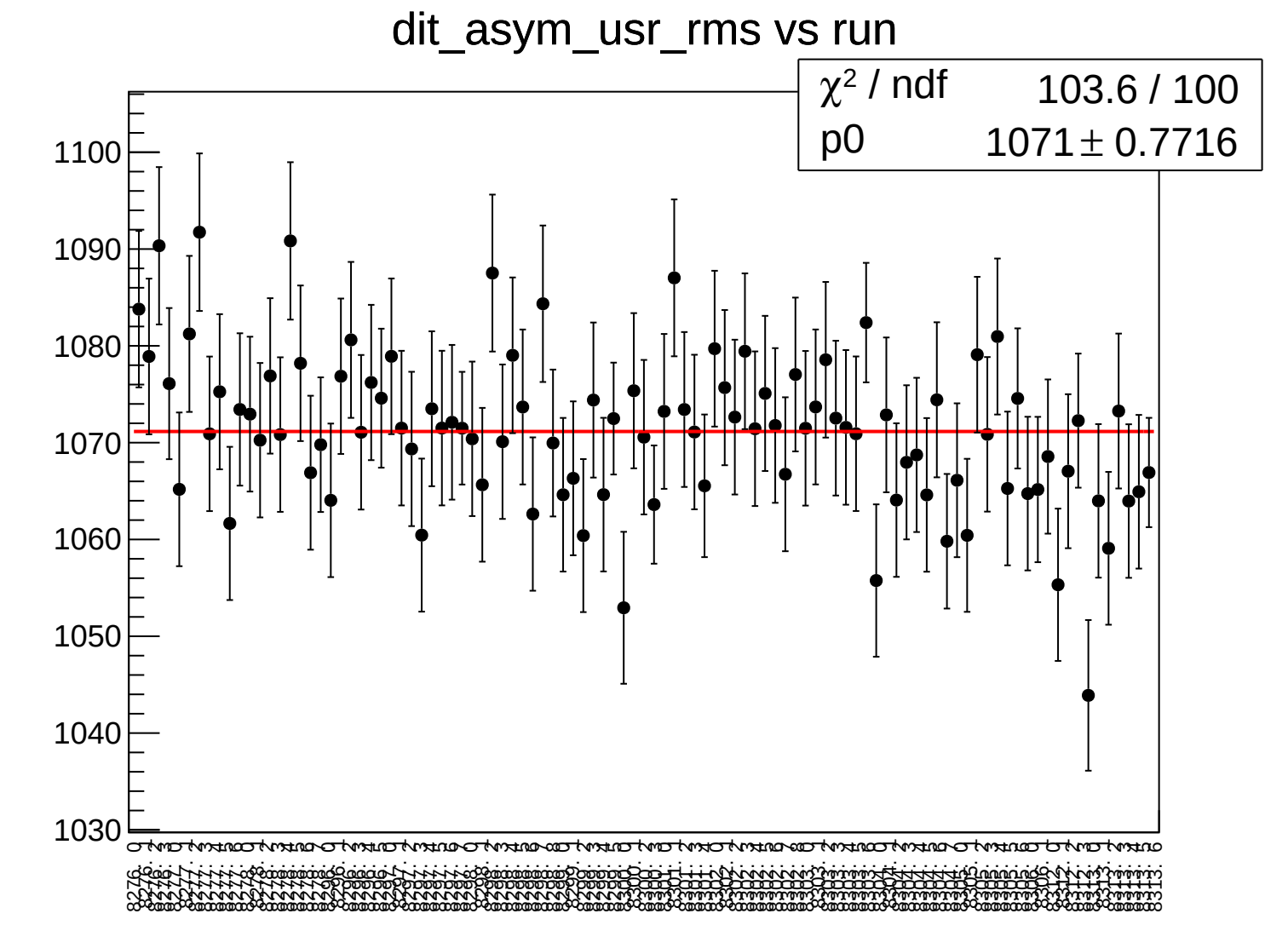

asym_usr_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 109.7 / 100
p0 −1829 ± 2842
100
50
0
−50
−100
−150
pull
Entries 101
Mean −621.9
Std Dev 0
2
1
0
−1
−2
−3
−4

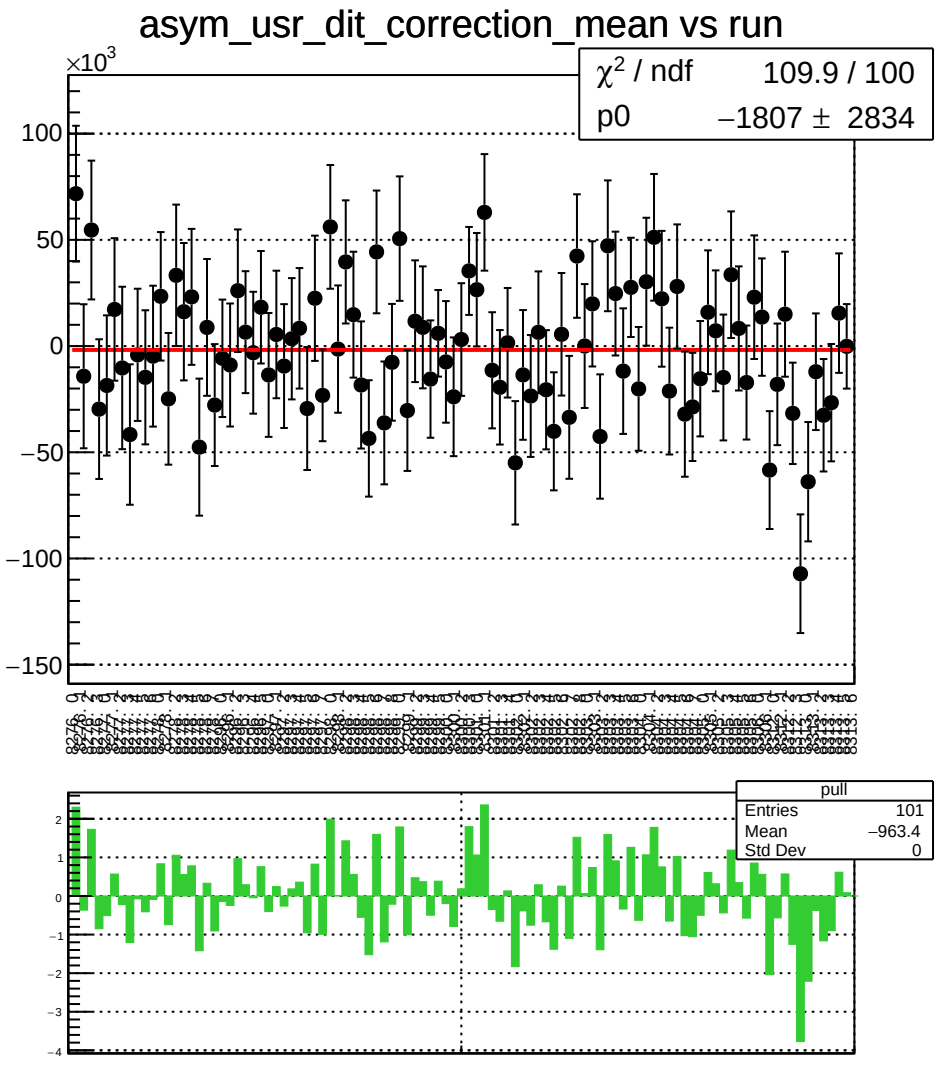

pull1D
Entries 101
Mean 0.007271
Std Dev 1.042
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

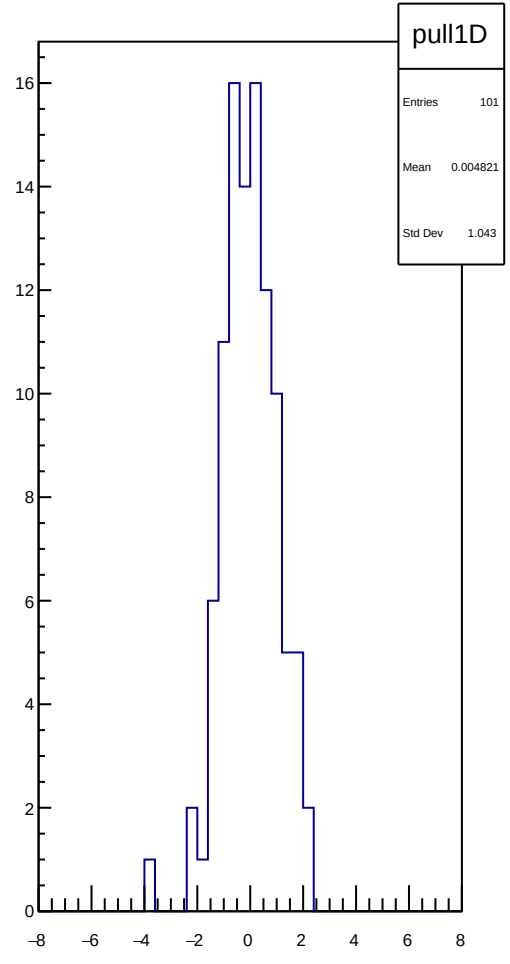

asym_usr_eigen_cor_correction_rms vs run
χ^2 / ndf 6836 / 100
p0 2785 ± 2.009
3800
3600
3400
3200
3000
2800
2600
2400


dit_asym_usr_mean vs run
χ² / ndf 92.86 / 100
p0 2203 ± 1091
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 101
Mean 47.13
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 101
Mean −0.003193
Std Dev 0.9588
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 103.6 / 100
p0 1071 ± 0.7716
1100
1090
1080
1070
1060
1050
1040
1030


asym_usr_dit_correction_mean vs run
×10^3
χ^2 / ndf 109.9 / 100
p0 −1807 ± 2834
100
50
0
−50
−100
−150
pull
Entries 101
Mean −963.4
Std Dev 0
2
1
0
−1
−2
−3
−4


pull1D
Entries 101
Mean 0.004821
Std Dev 1.043
16
14
12
10
8
6
4
2
0
−8
−6
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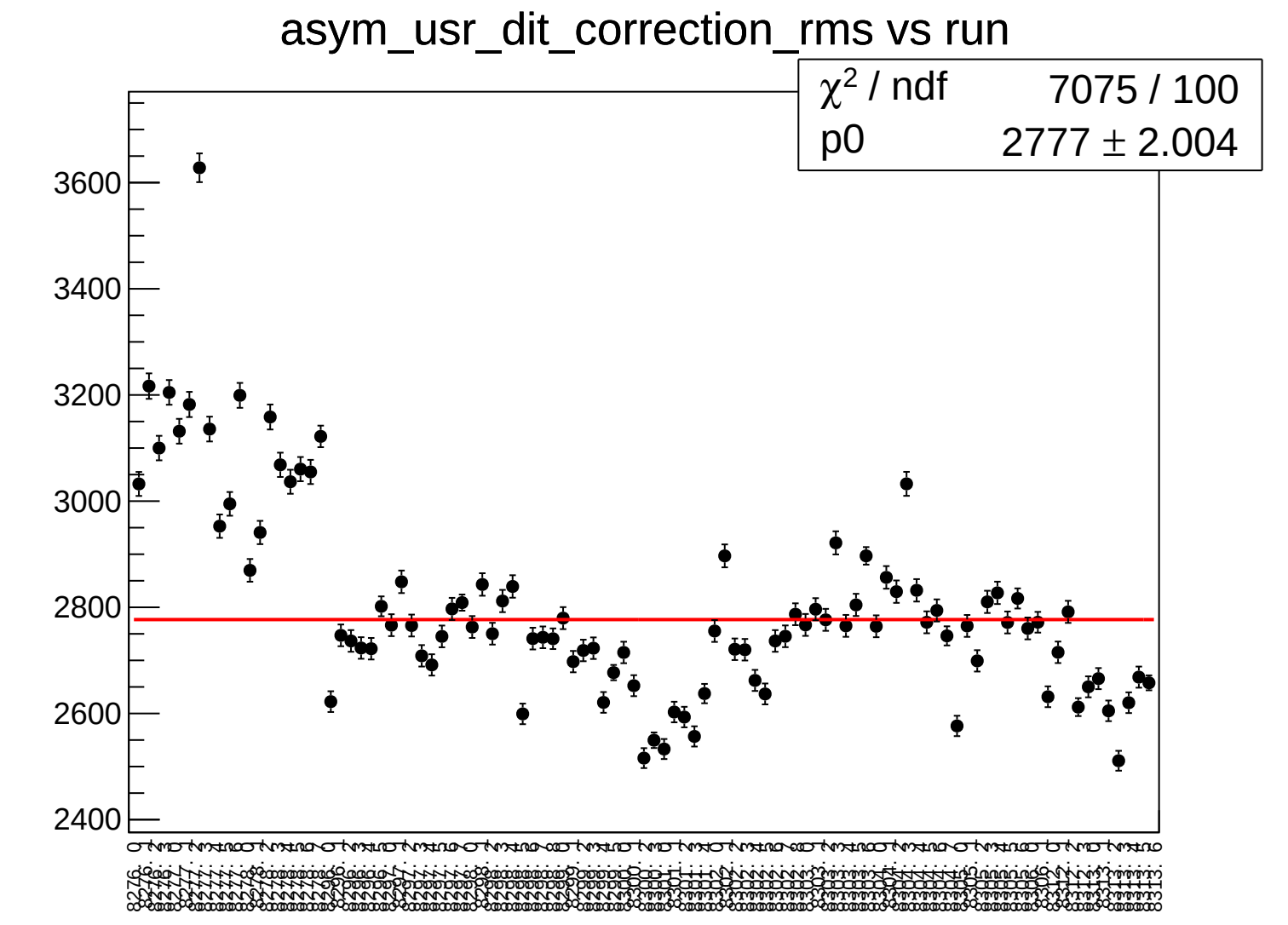
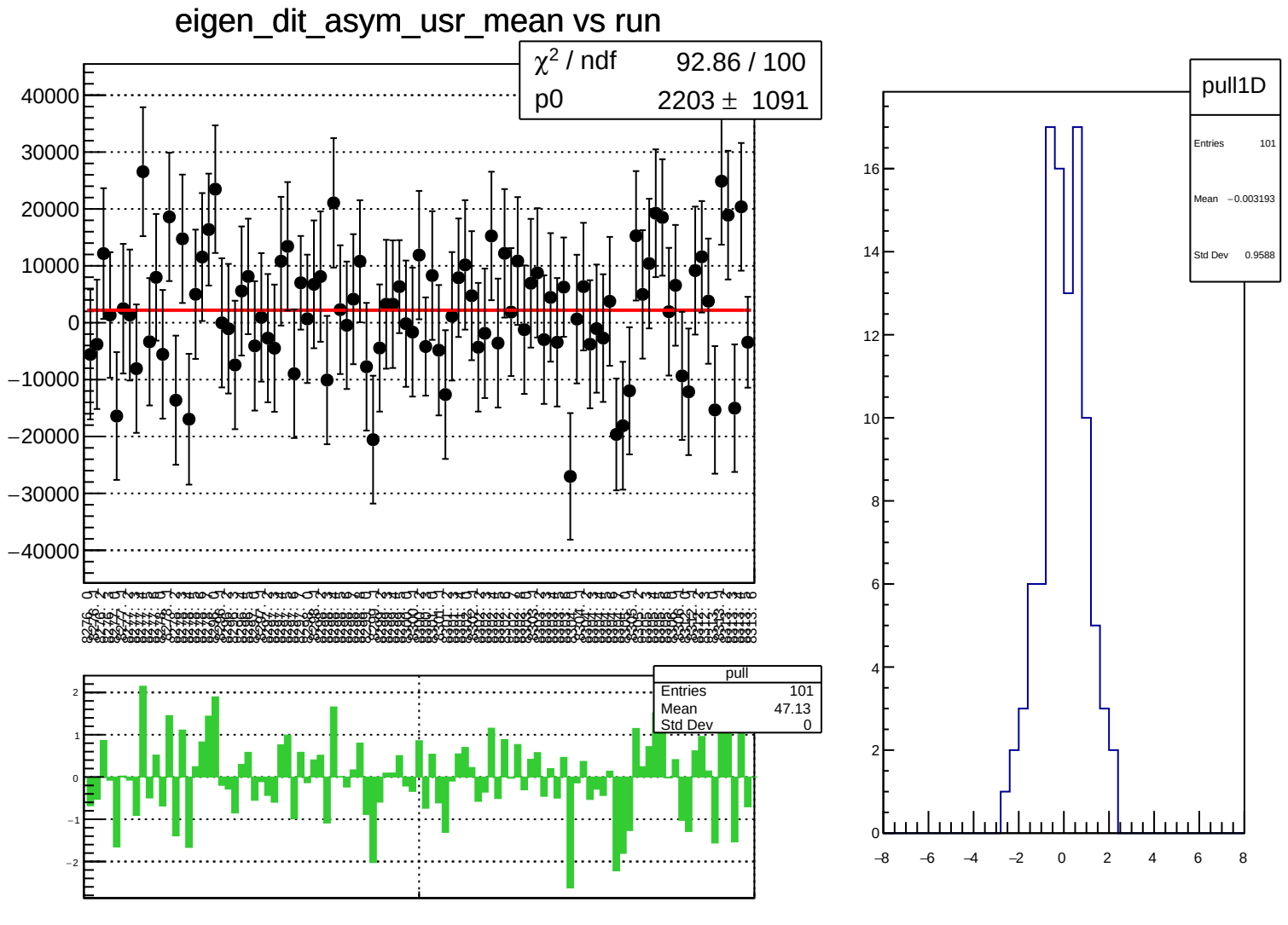
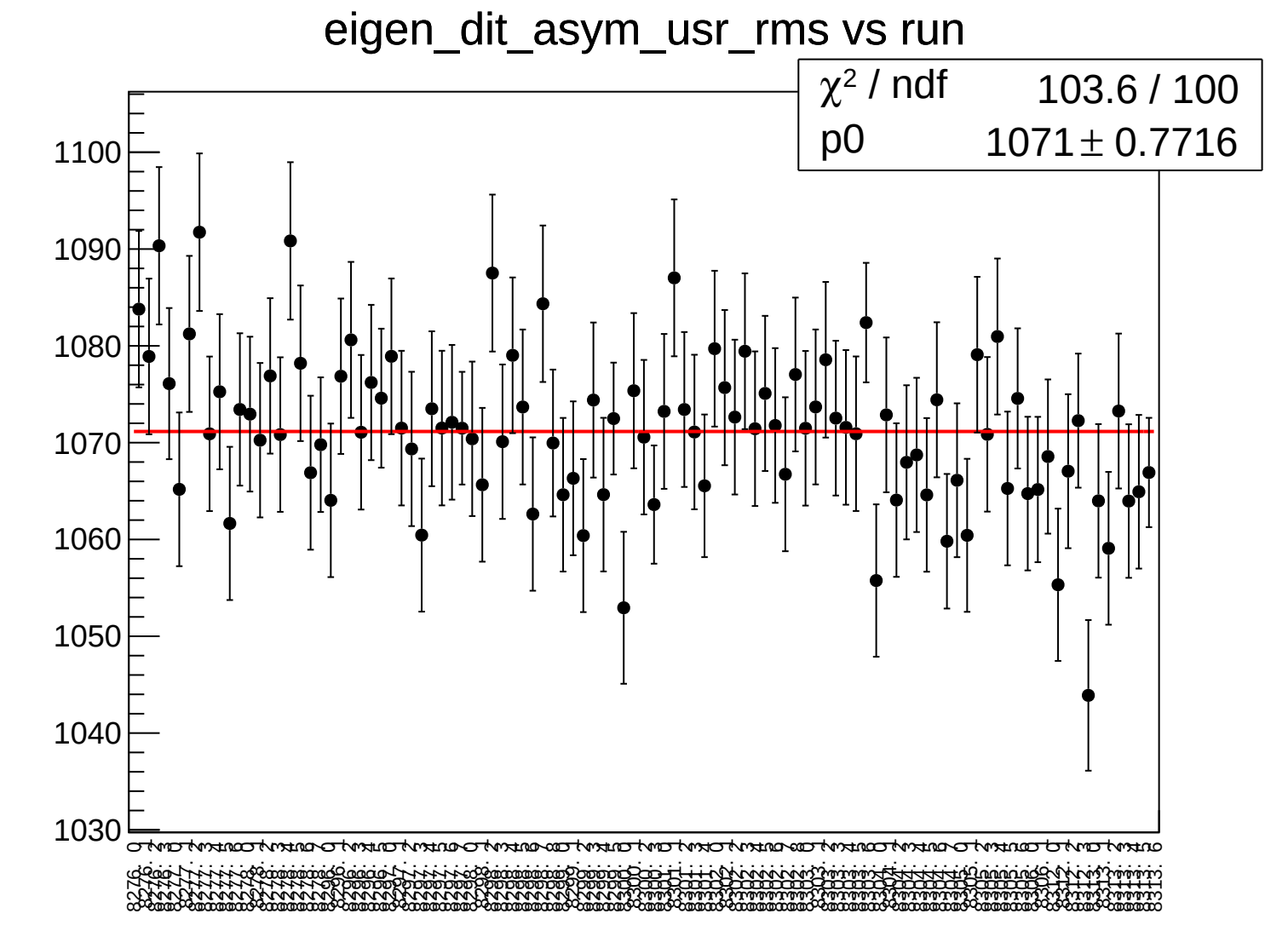
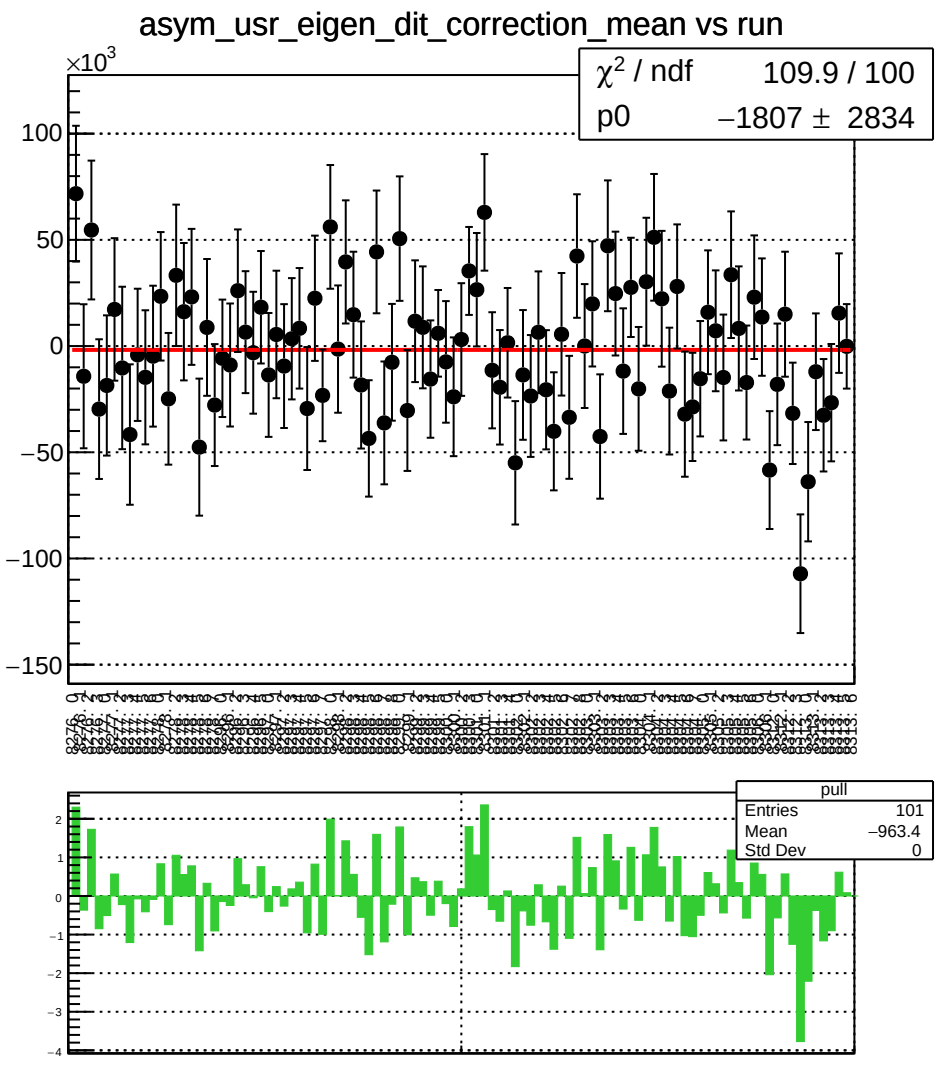
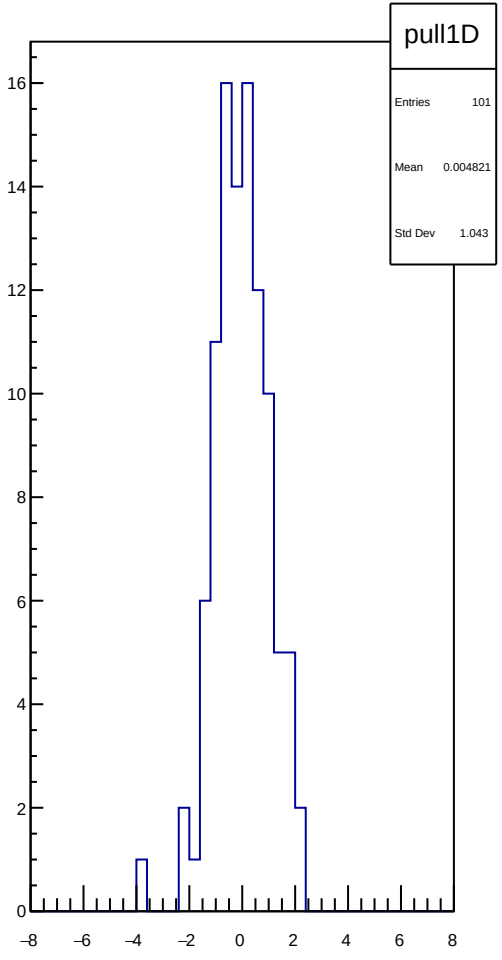
0
2
4
6
8

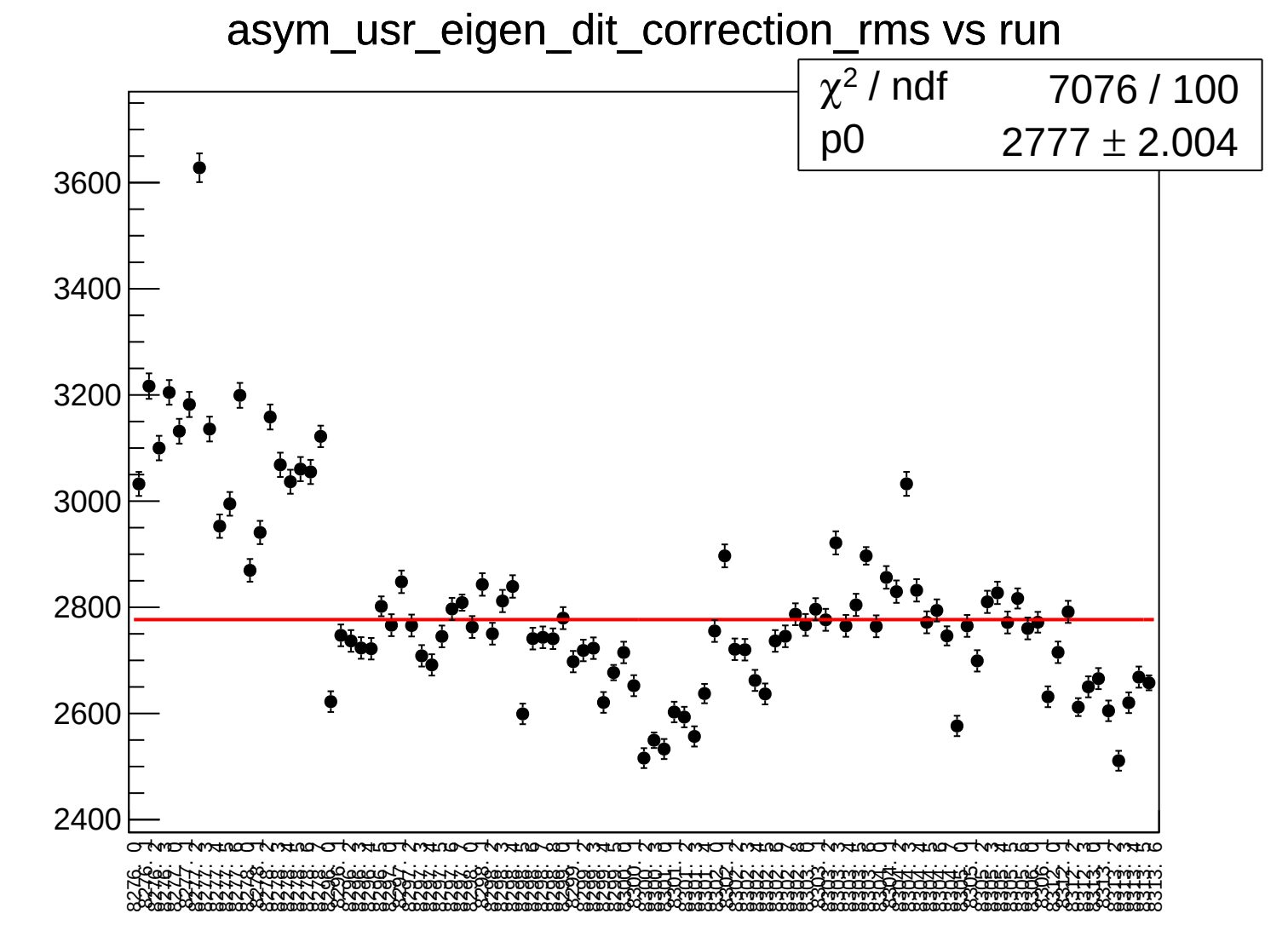

asym_usr_dit_correction_rms vs run
χ² / ndf 7075 / 100
p0 2777 ± 2.004
3600
3400
3200
3000
2800
2600
2400

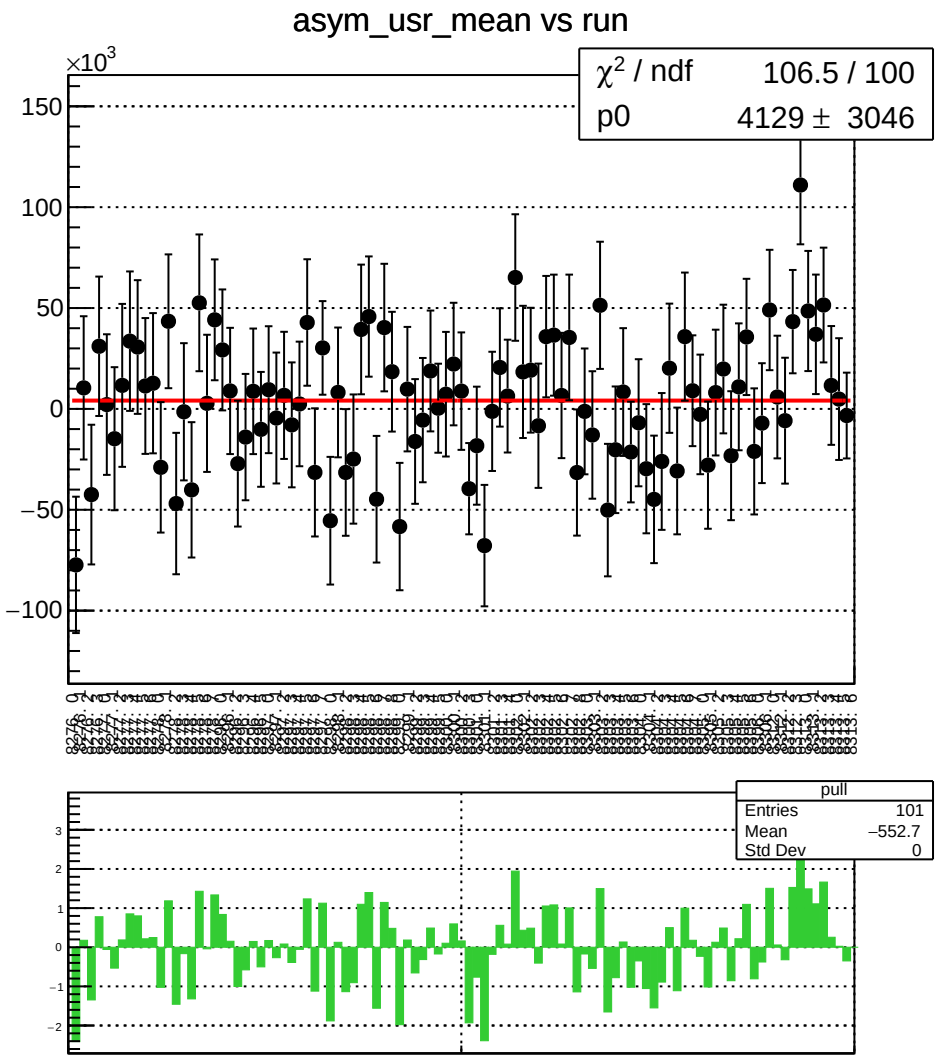

eigen_dit_asym_usr_mean vs run
χ² / ndf 92.86 / 100
p0 2203 ± 1091
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 101
Mean 47.13
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.003193
Std Dev 0.9588
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

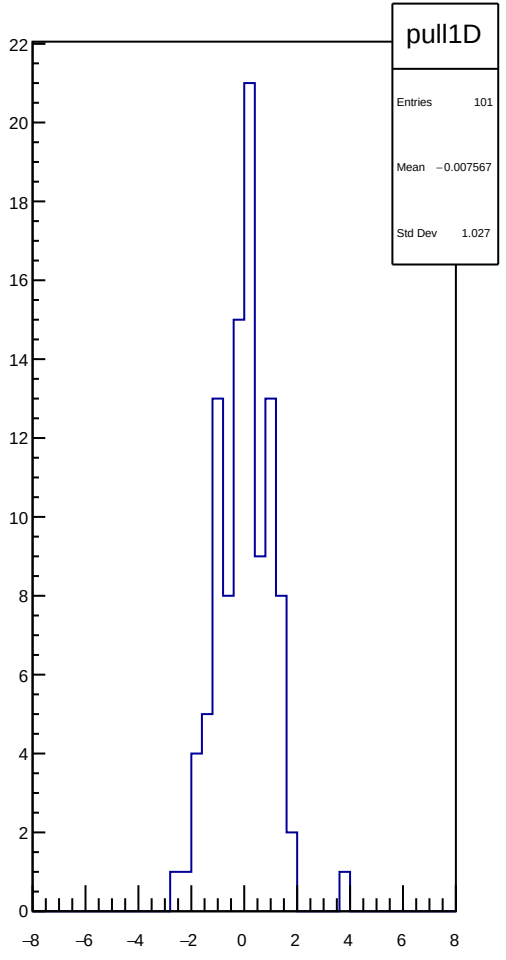

eigen_dit_asym_usr_rms vs run
χ² / ndf 103.6 / 100
p0 1071 ± 0.7716
1100
1090
1080
1070
1060
1050
1040
1030

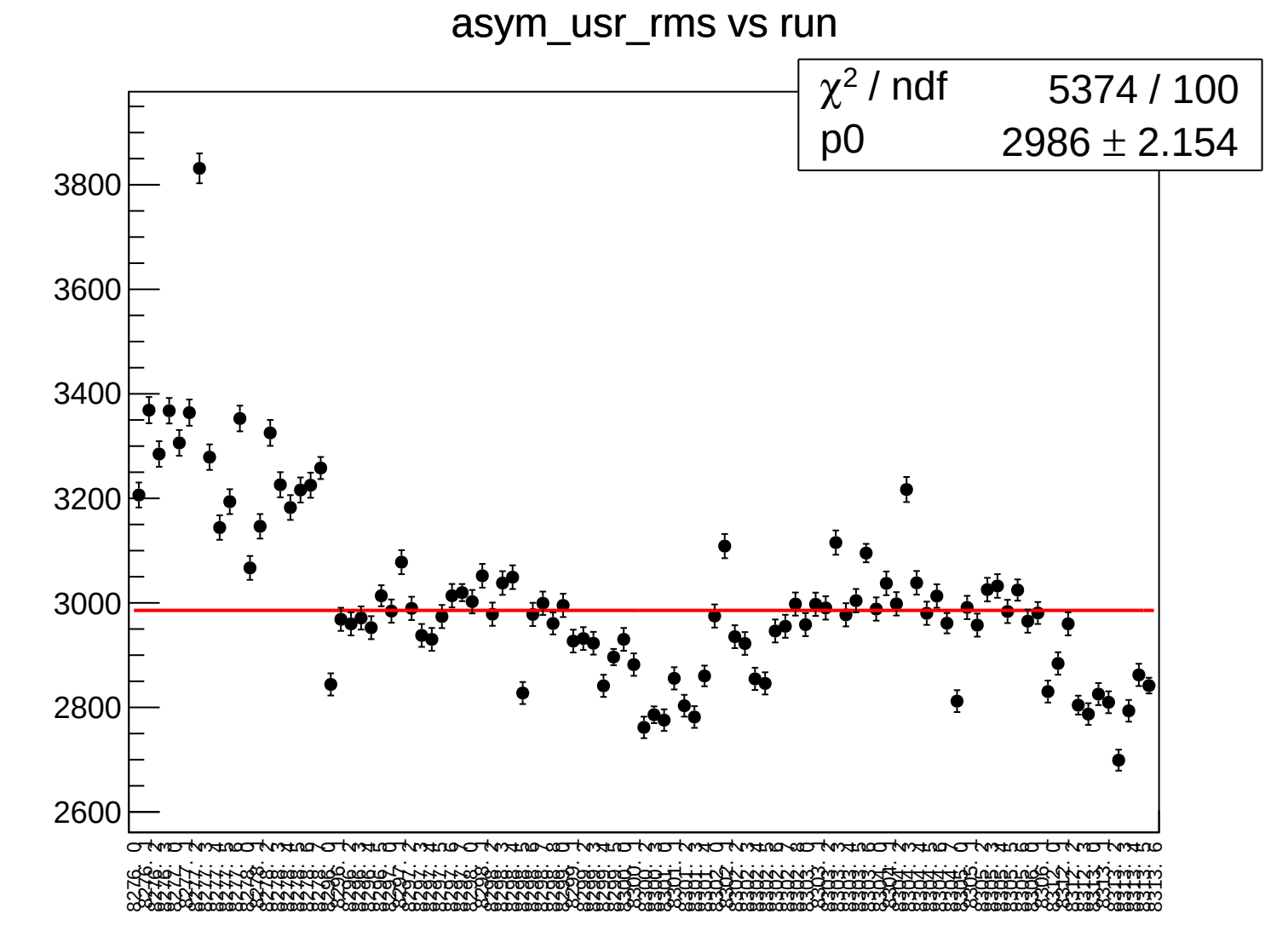

asym_usr_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 109.9 / 100
p0 −1807 ± 2834
100
50
0
−50
−100
−150
pull
Entries 101
Mean −963.4
Std Dev 0
2
1
0
−1
−2
−3
−4

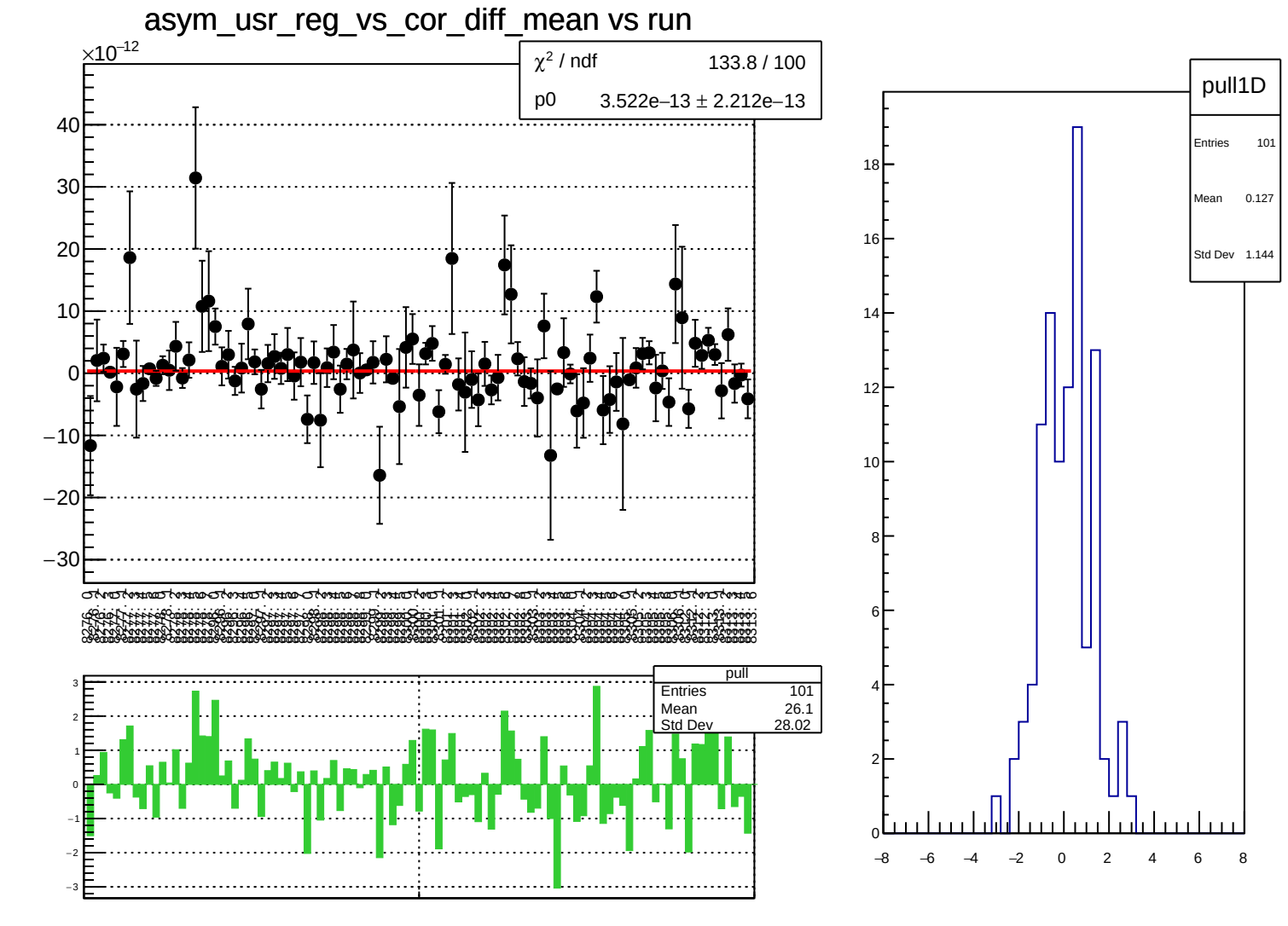

pull1D
Entries 101
Mean 0.004821
Std Dev 1.043
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

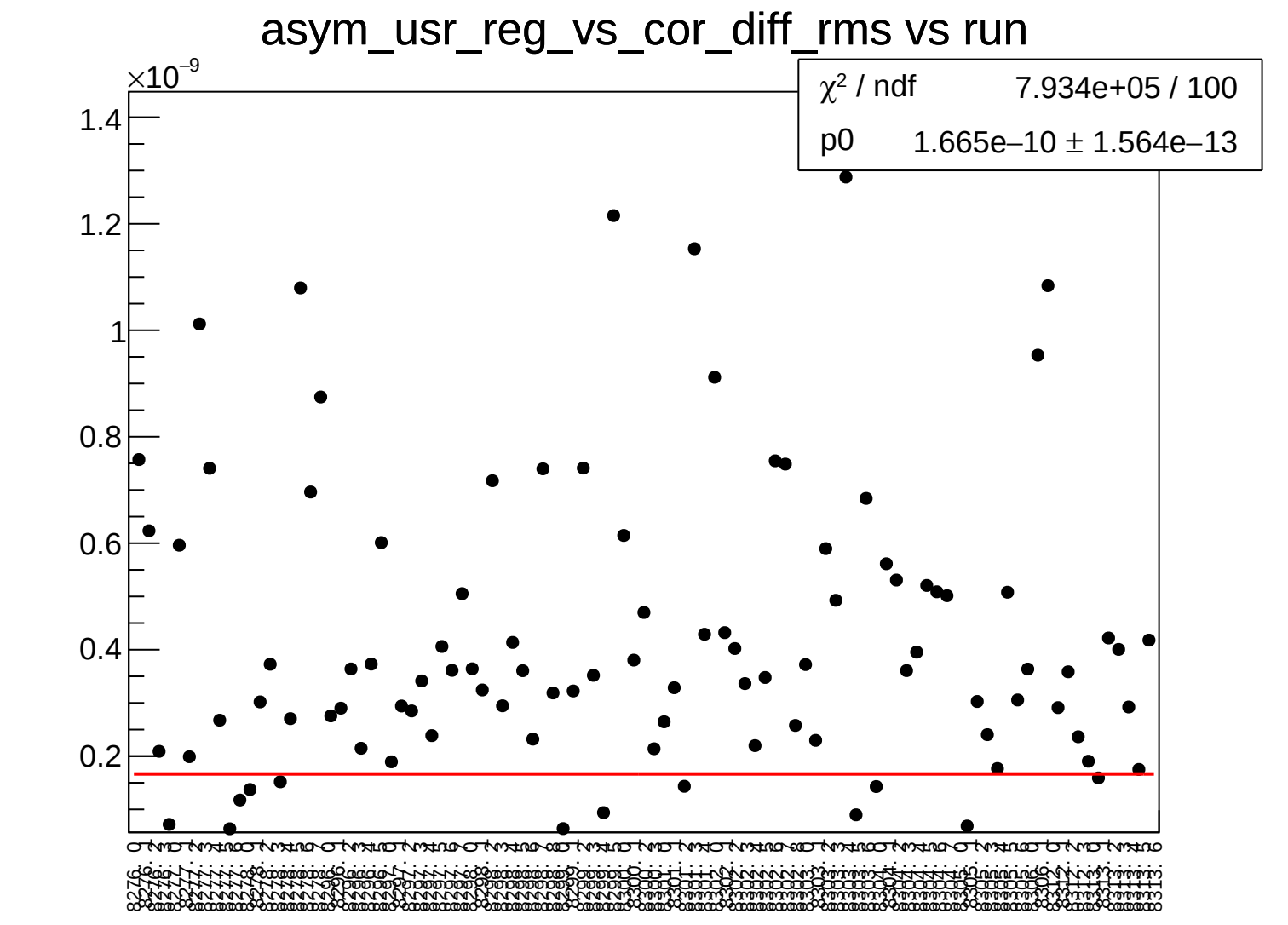

asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 7076 / 100
p0 2777 ± 2.004
3600
3400
3200
3000
2800
2600
2400

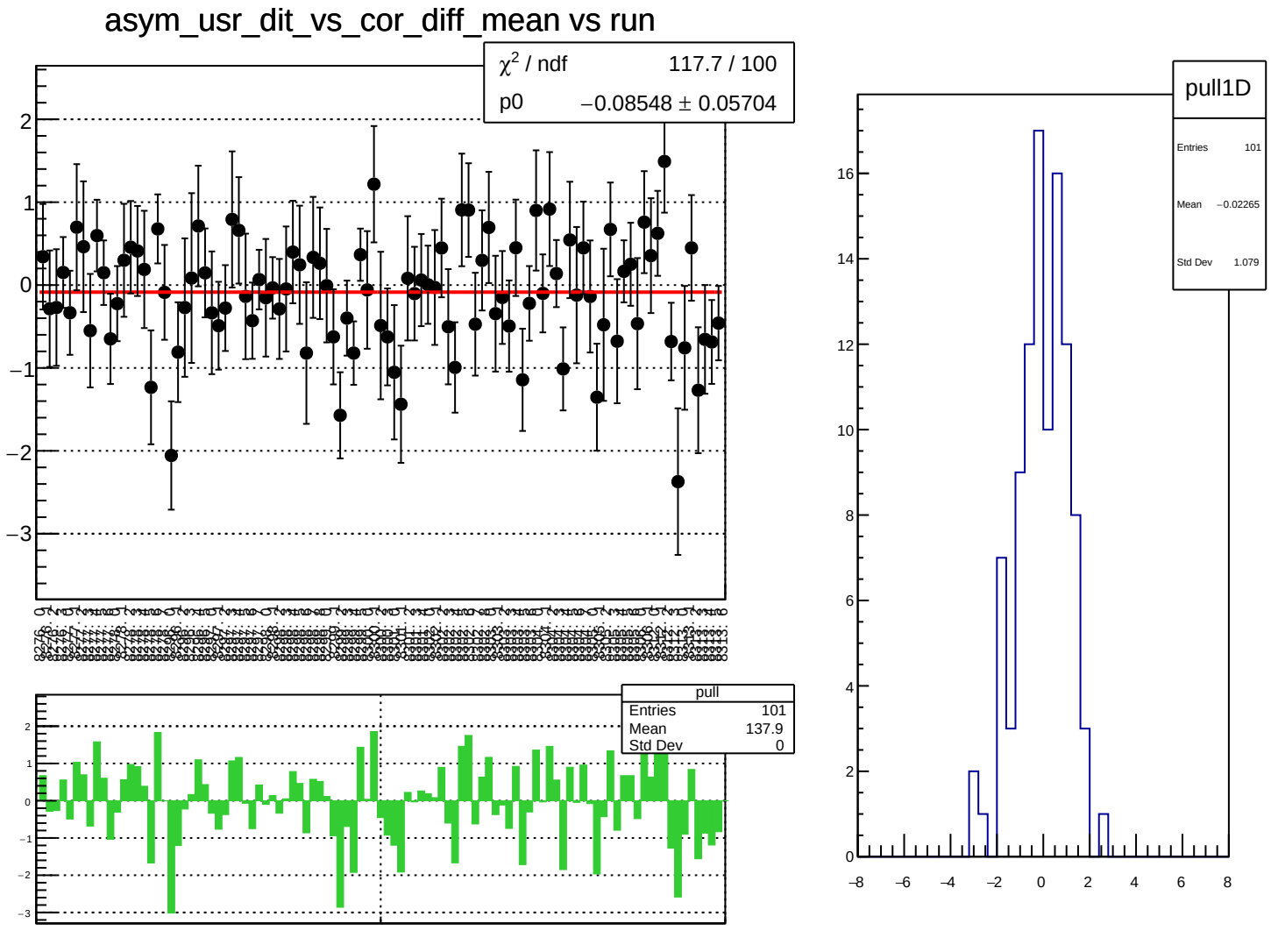

asym_usr_mean vs run
×10^3
χ^2 / ndf 106.5 / 100
p0 4129 ± 3046
150
100
50
0
−50
−100
pull
Entries 101
Mean −552.7
Std Dev 0
3
2
1
0
−1
−2

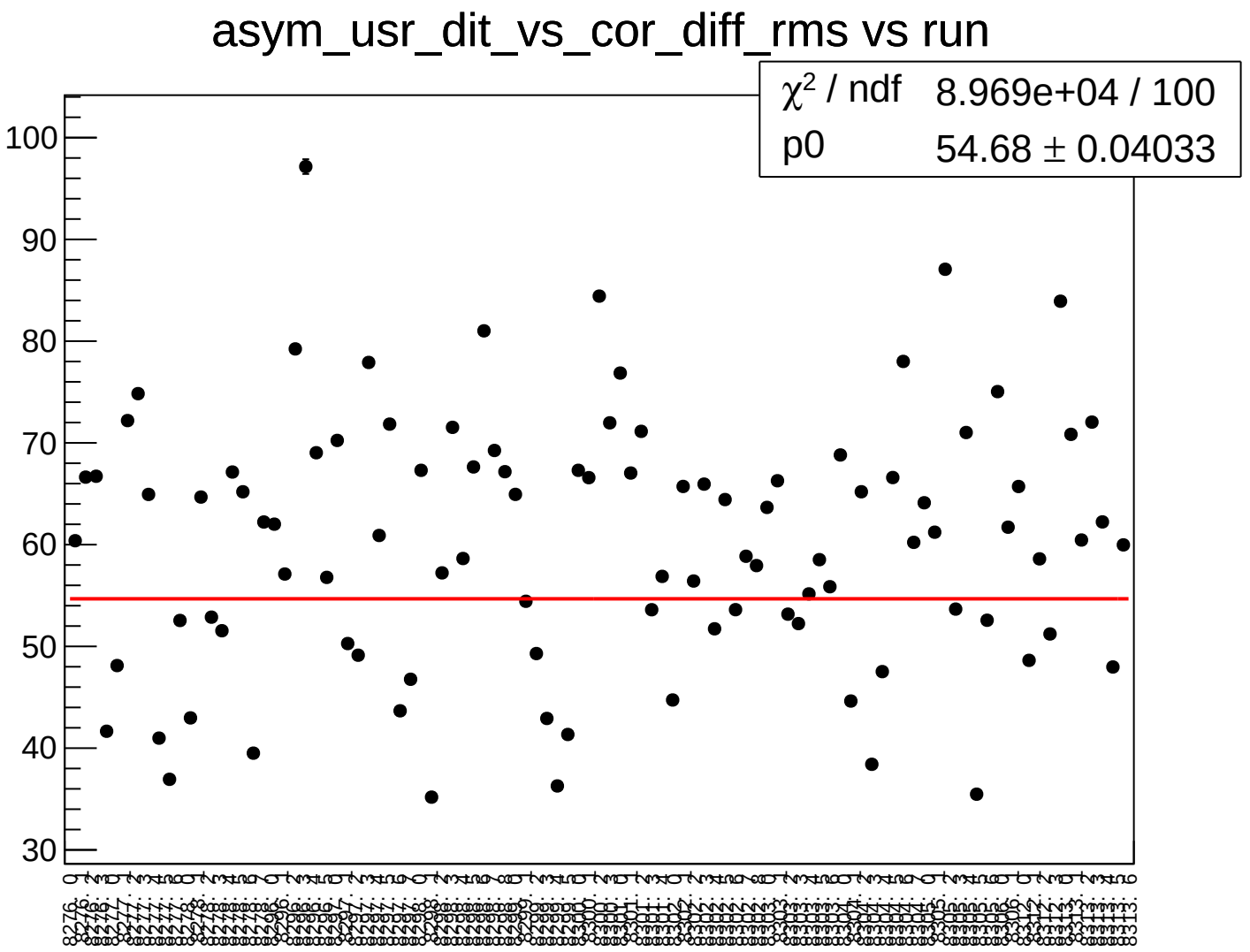

pull1D
Entries 101
Mean −0.007567
Std Dev 1.027
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

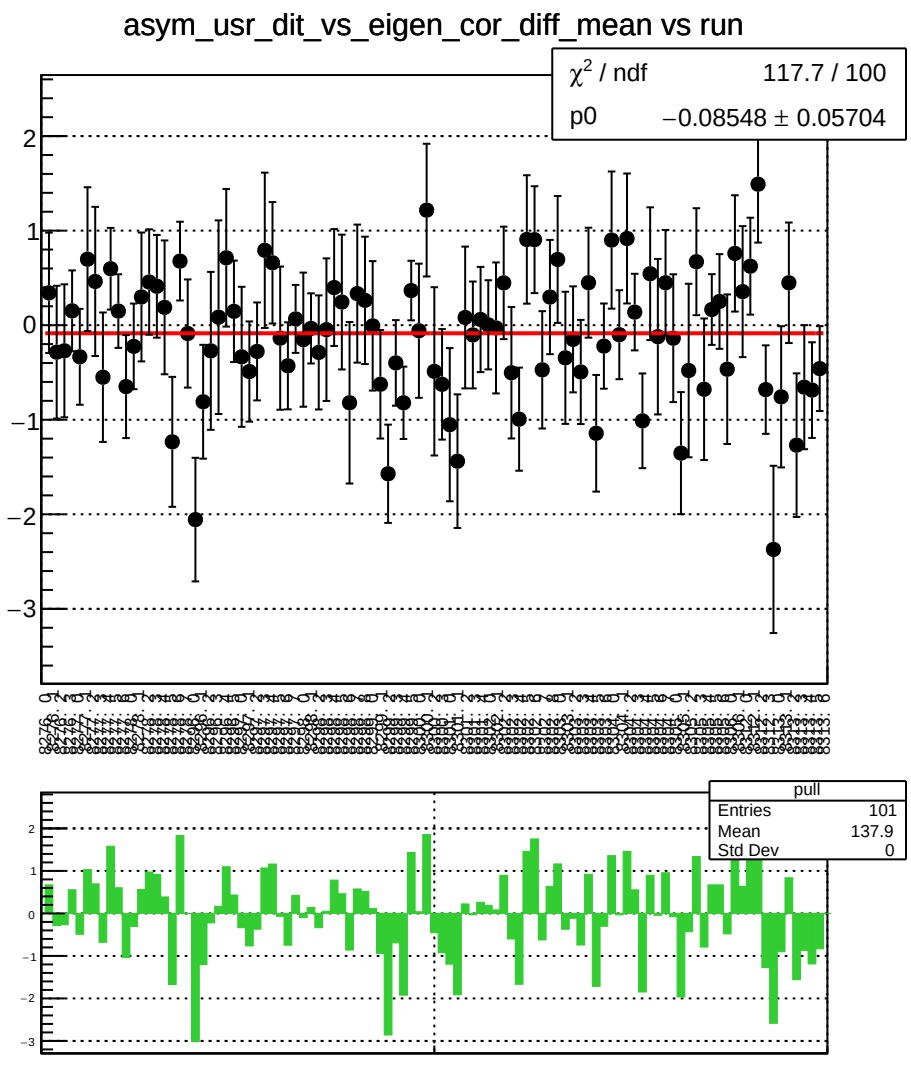

asym_usr_rms vs run
χ² / ndf 5374 / 100
p0 2986 ± 2.154
3800
3600
3400
3200
3000
2800
2600

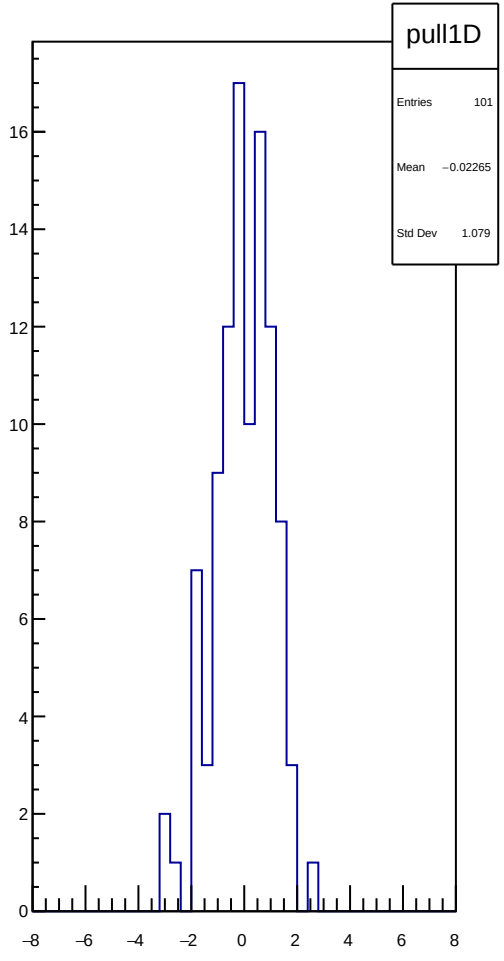

asym_usr_reg_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 133.8 / 100
p0 3.522e−13 ± 2.212e−13
40
30
20
10
0
−10
−20
−30
pull
Entries 101
Mean 26.1
Std Dev 28.02
3
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.127
Std Dev 1.144
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

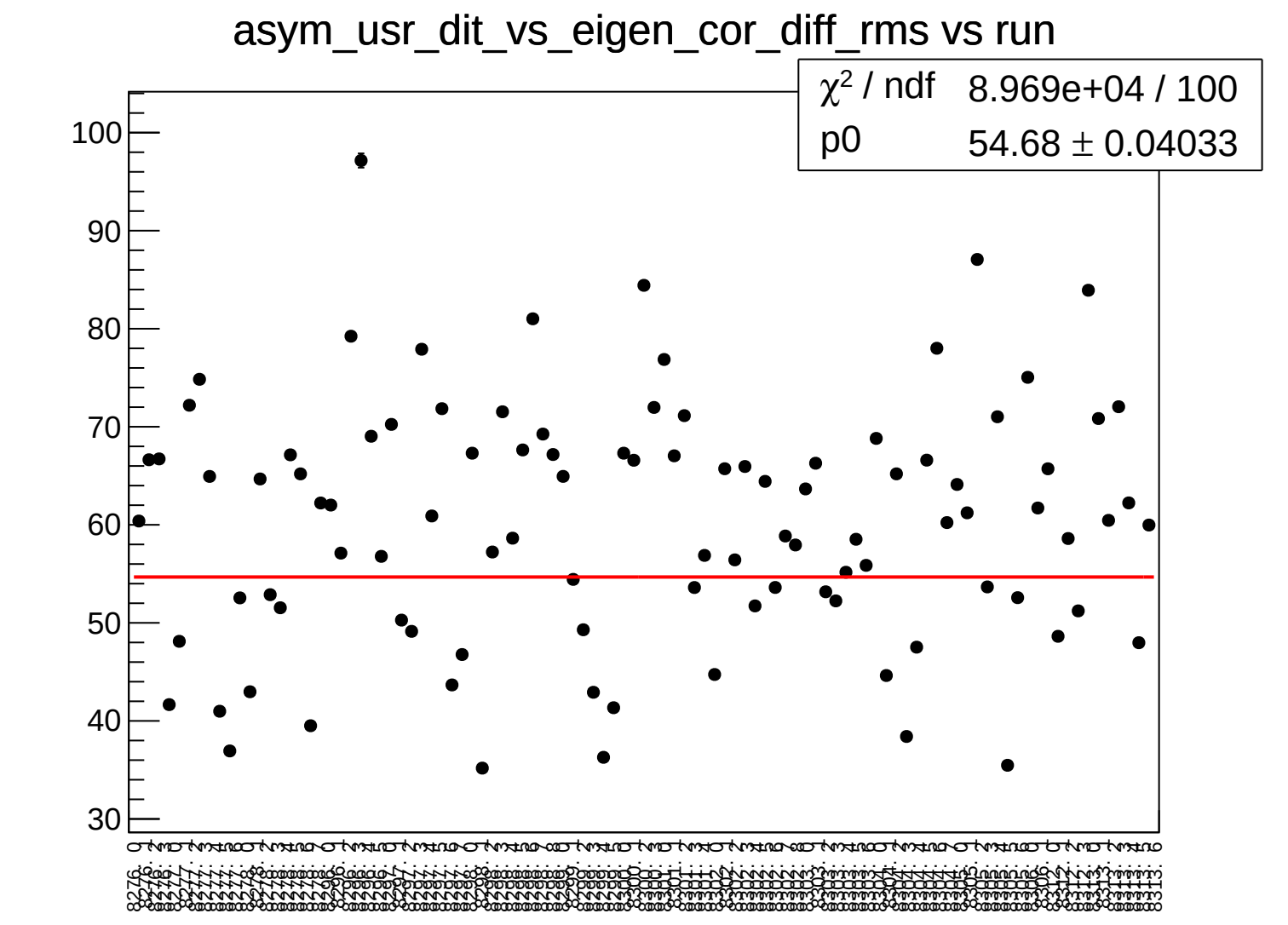

asym_usr_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.934e+05 / 100
p0 1.665e−10 ± 1.564e−13
1.4
1.2
1
0.8
0.6
0.4
0.2

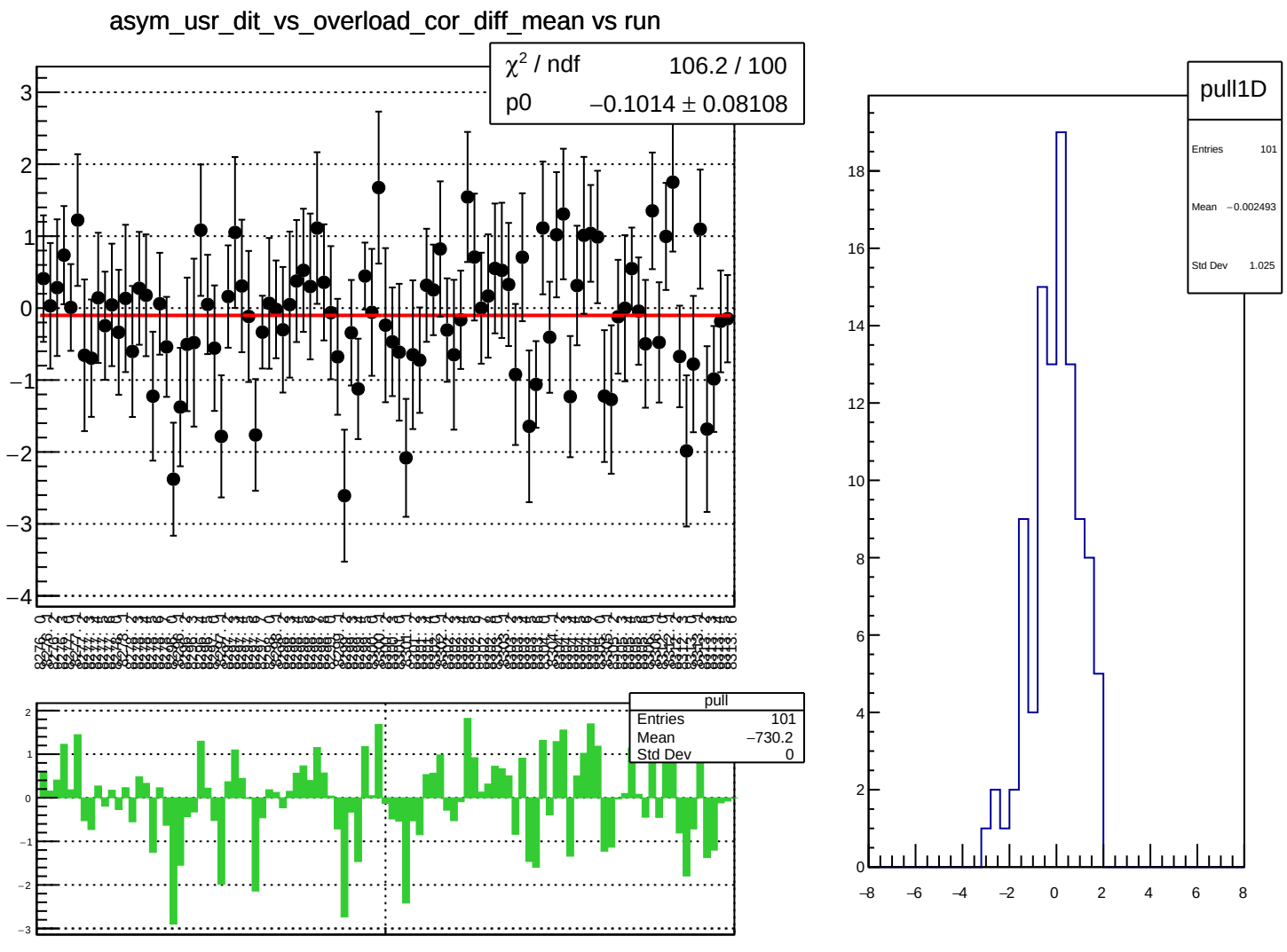

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 117.7 / 100
p0 −0.08548 ± 0.05704
pull
Entries 101
Mean 137.9
Std Dev 0
pull1D
Entries 101
Mean −0.02265
Std Dev 1.079

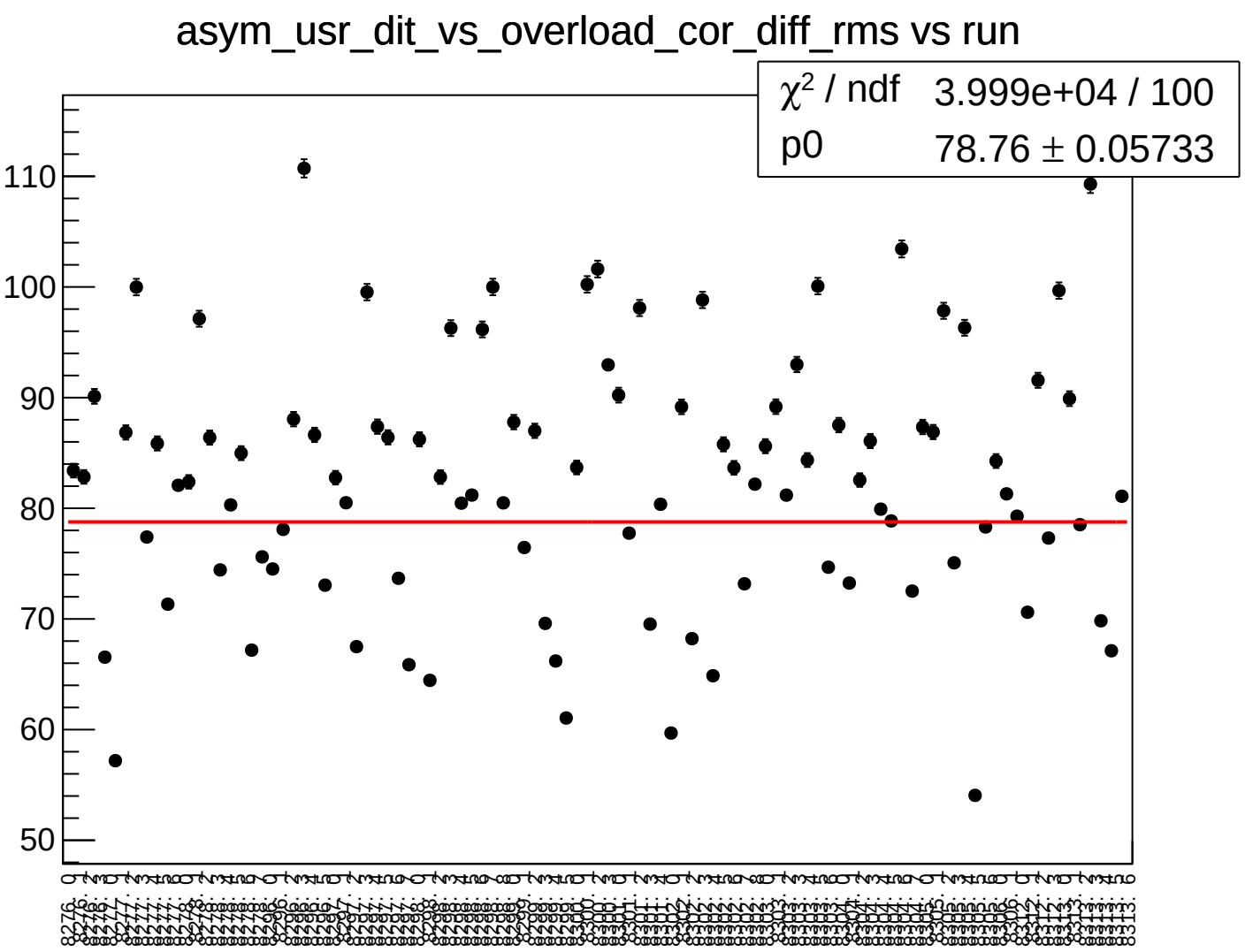

asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 8.969e+04 / 100
p0 54.68 ± 0.04033
100
90
80
70
60
50
40
30

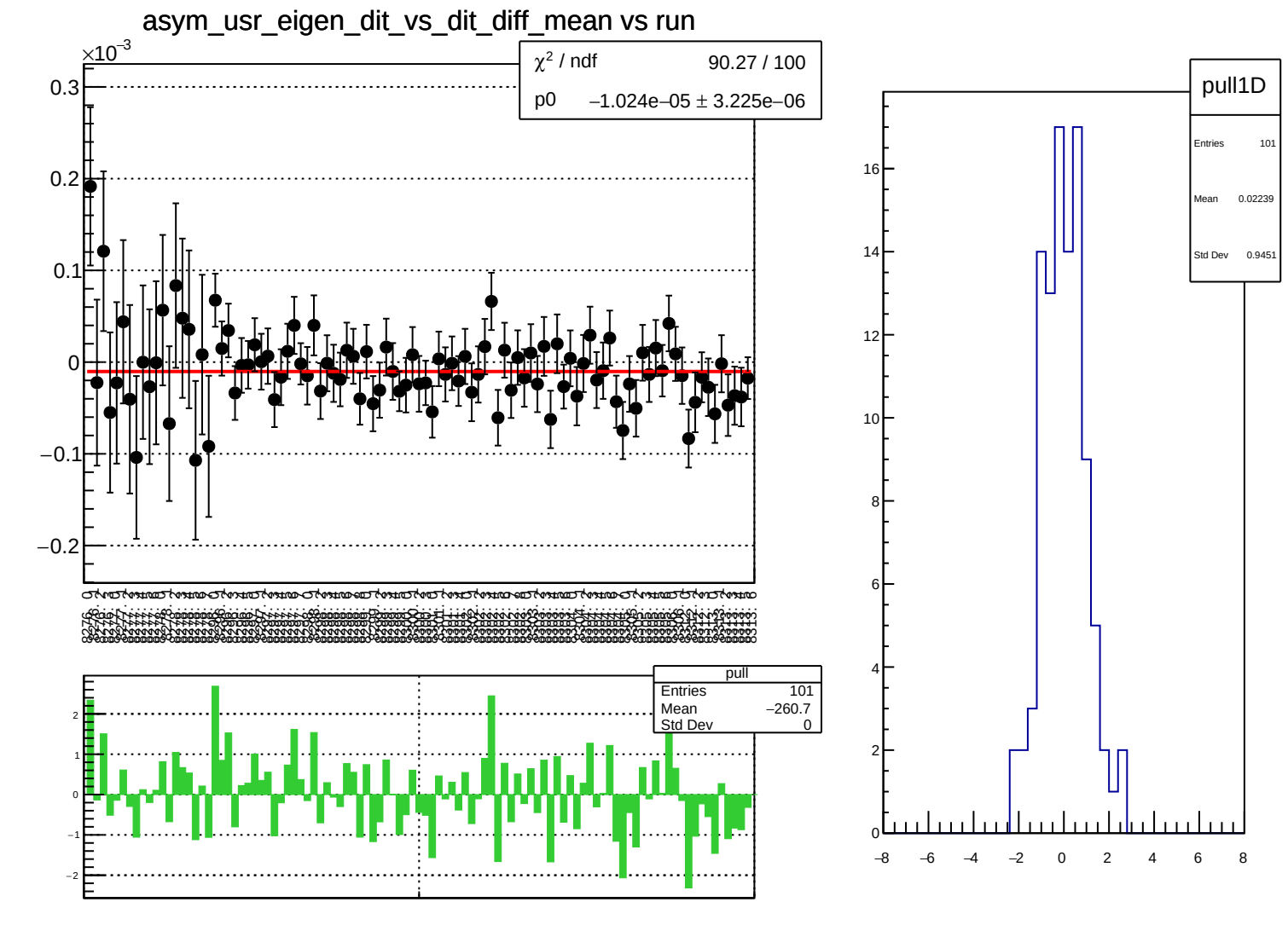

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 117.7 / 100
p0 −0.08548 ± 0.05704
pull
Entries 101
Mean 137.9
Std Dev 0

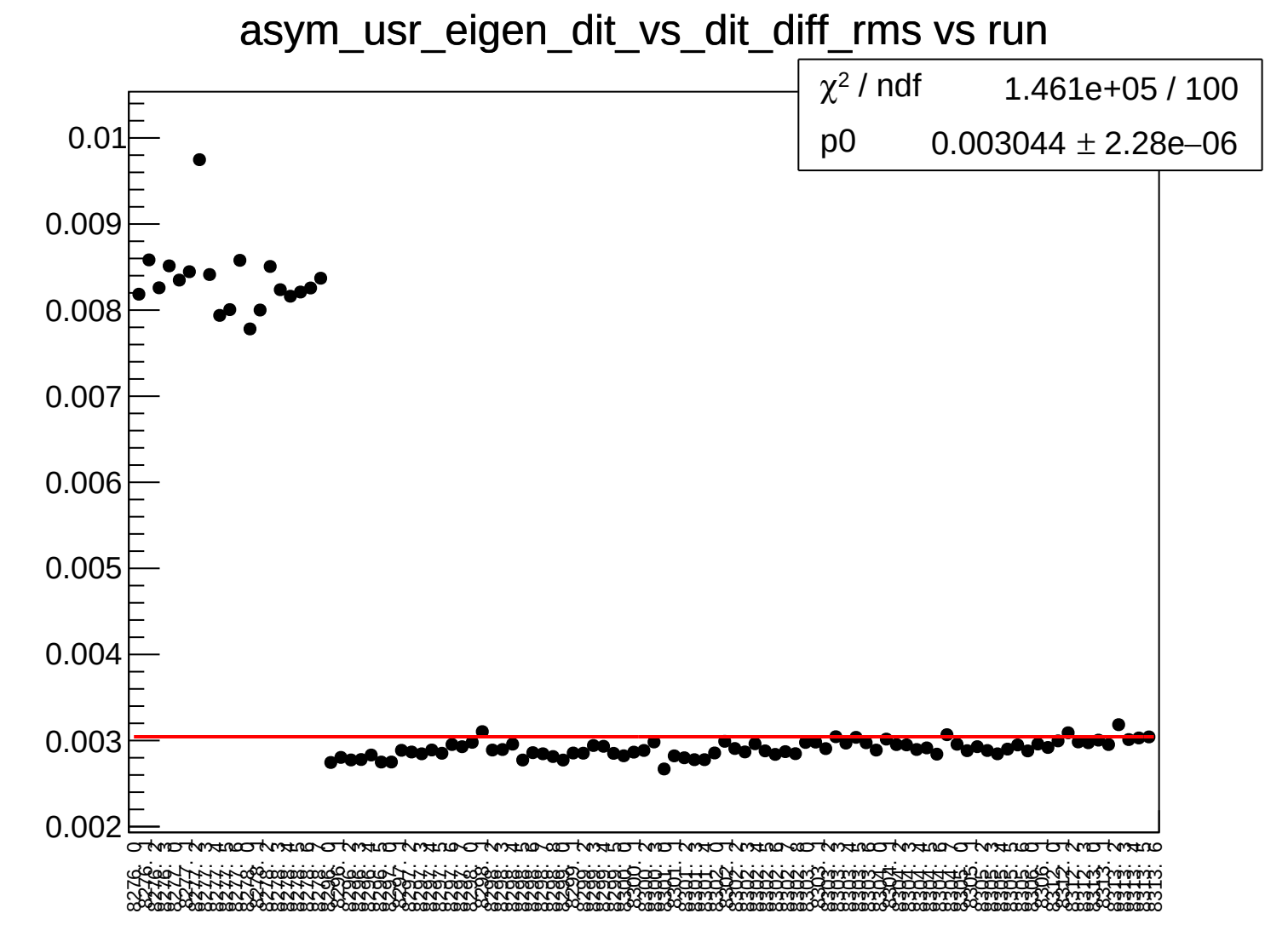

pull1D
Entries 101
Mean −0.02265
Std Dev 1.079

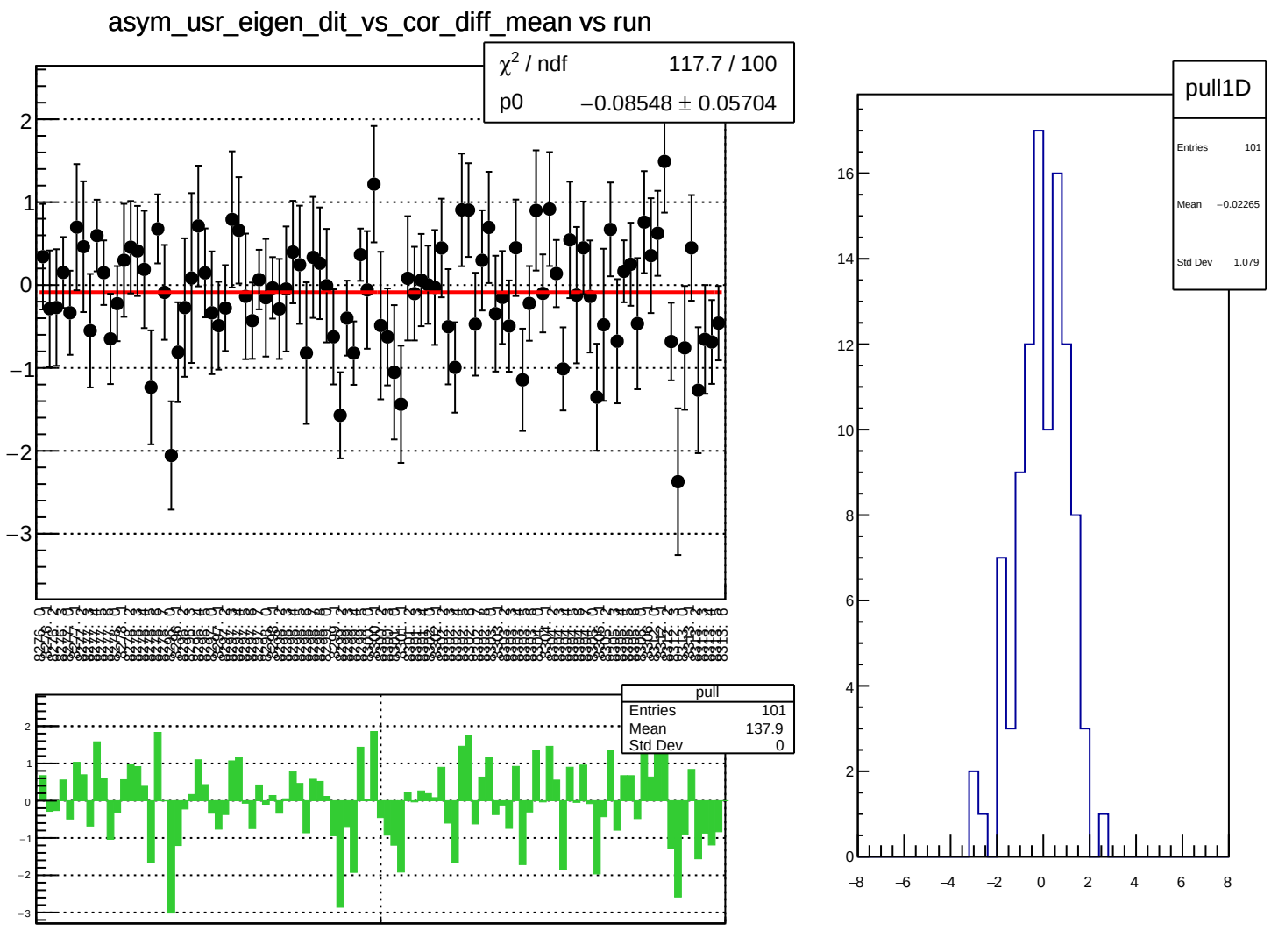

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.969e+04 / 100
p0 54.68 ± 0.04033
100
90
80
70
60
50
40
30

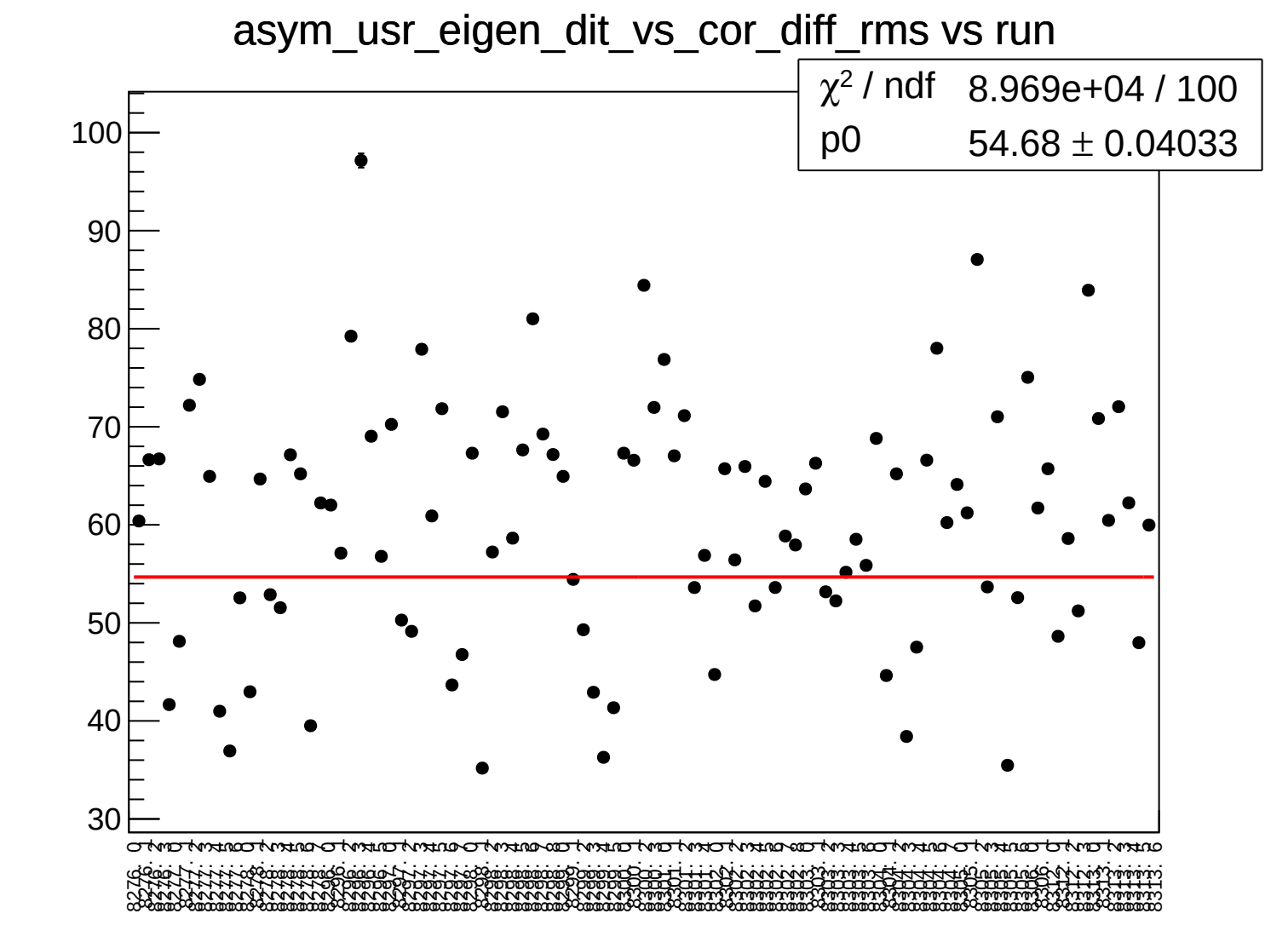

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 106.2 / 100
p0 −0.1014 ± 0.08108
pull
Entries 101
Mean −730.2
Std Dev 0
pull1D
Entries 101
Mean −0.002493
Std Dev 1.025

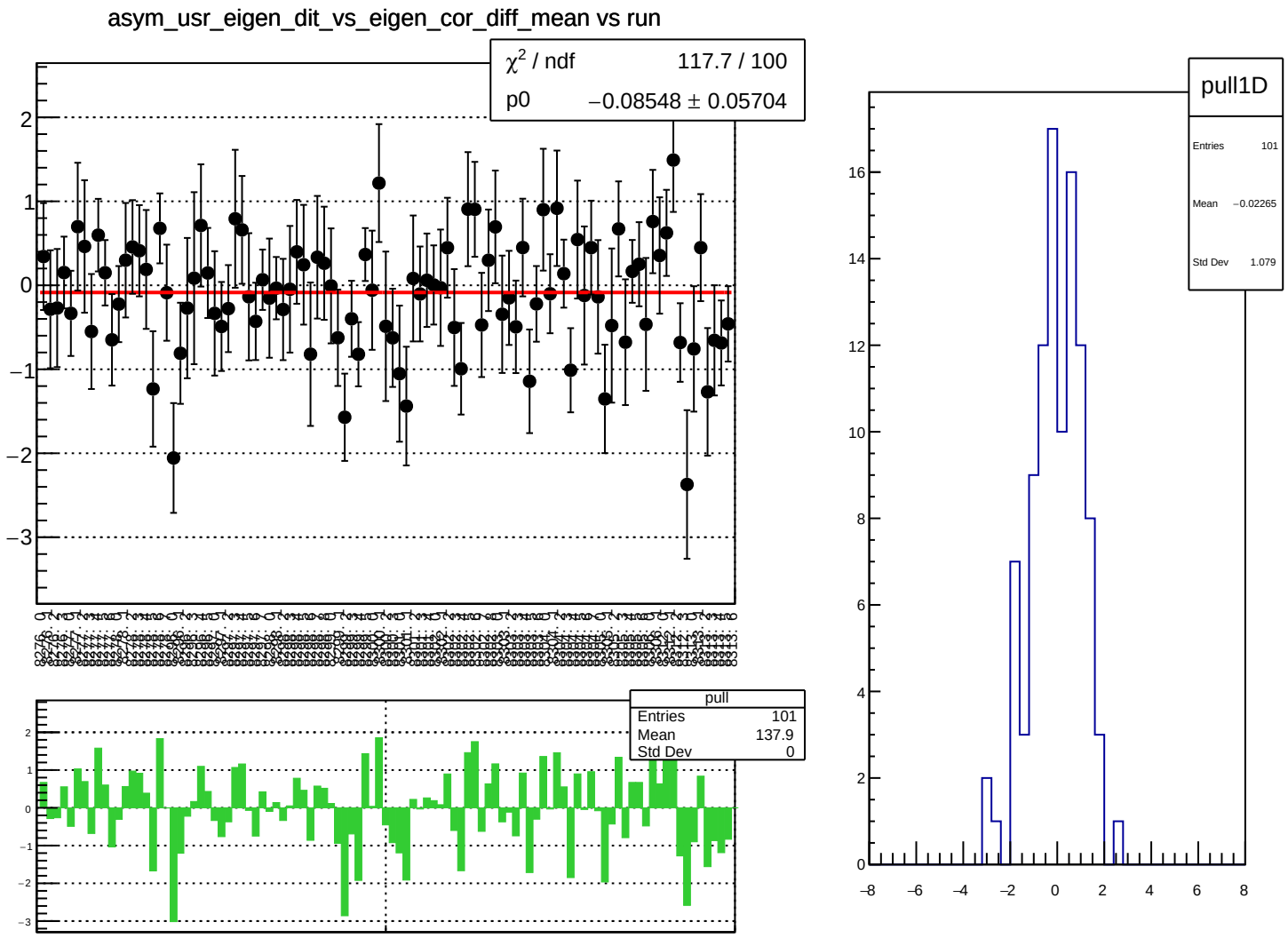

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ^2 / ndf 3.999e+04 / 100
p0 78.76 ± 0.05733
110
100
90
80
70
60
50

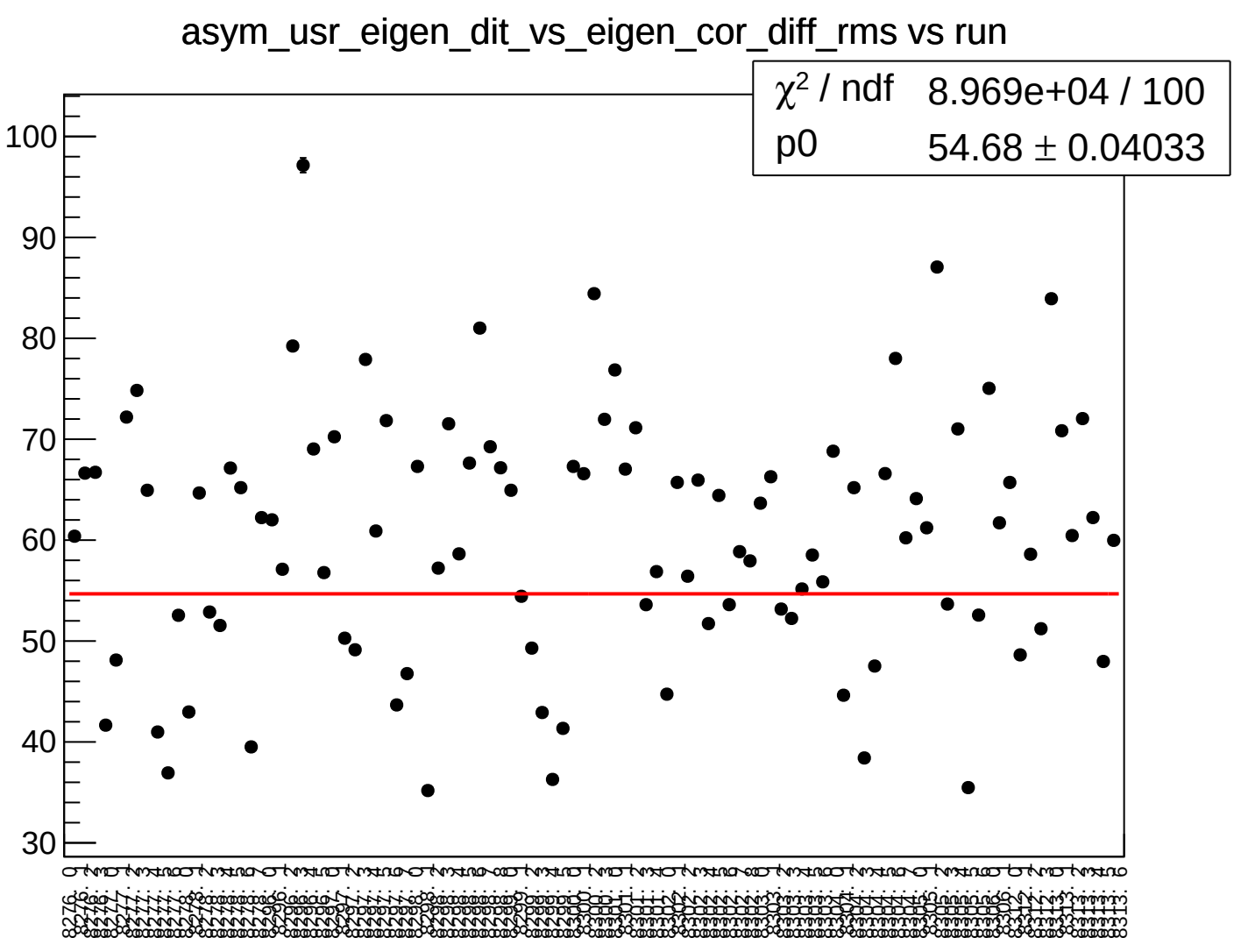

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.27 / 100
p0 −1.024e−05 ± 3.225e−06
pull
Entries 101
Mean −260.7
Std Dev 0
pull1D
Entries 101
Mean 0.02239
Std Dev 0.9451

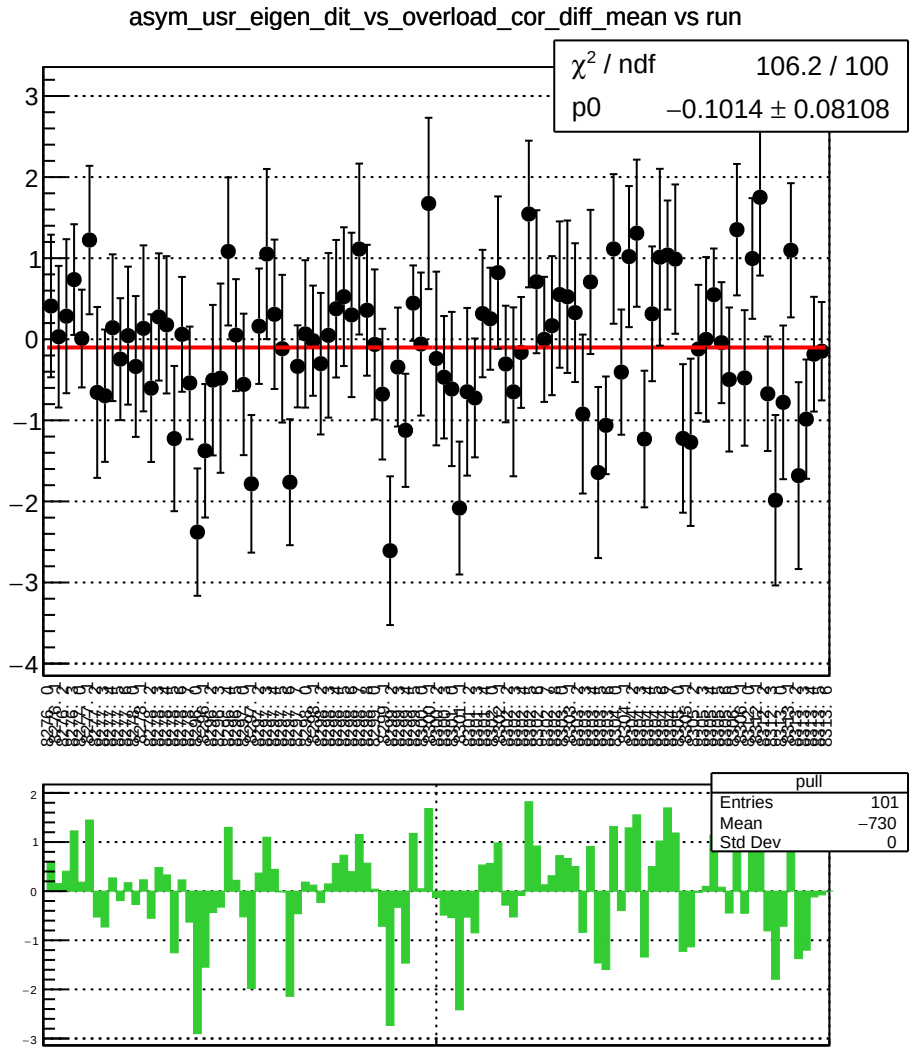

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.461e+05 / 100
p0 0.003044 ± 2.28e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

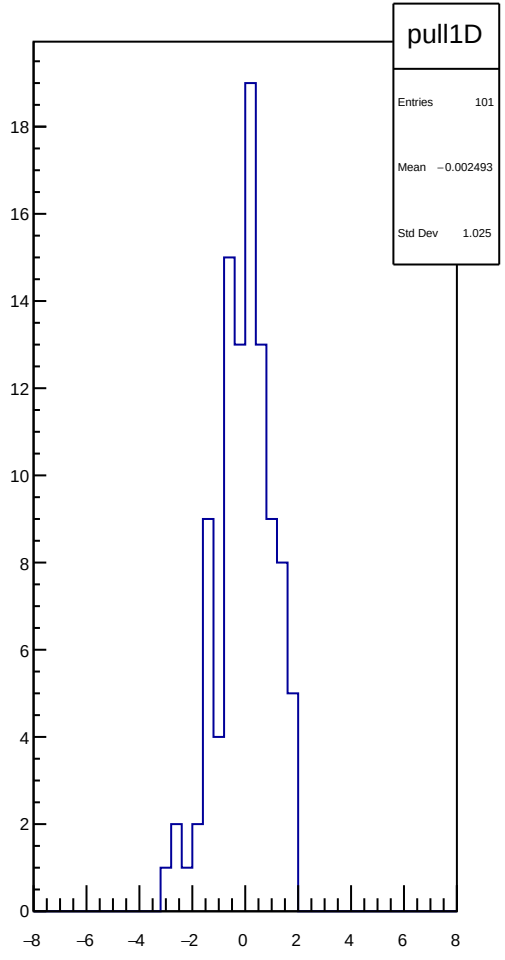

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 117.7 / 100
p0 −0.08548 ± 0.05704
pull
Entries 101
Mean 137.9
Std Dev 0
pull1D
Entries 101
Mean −0.02265
Std Dev 1.079

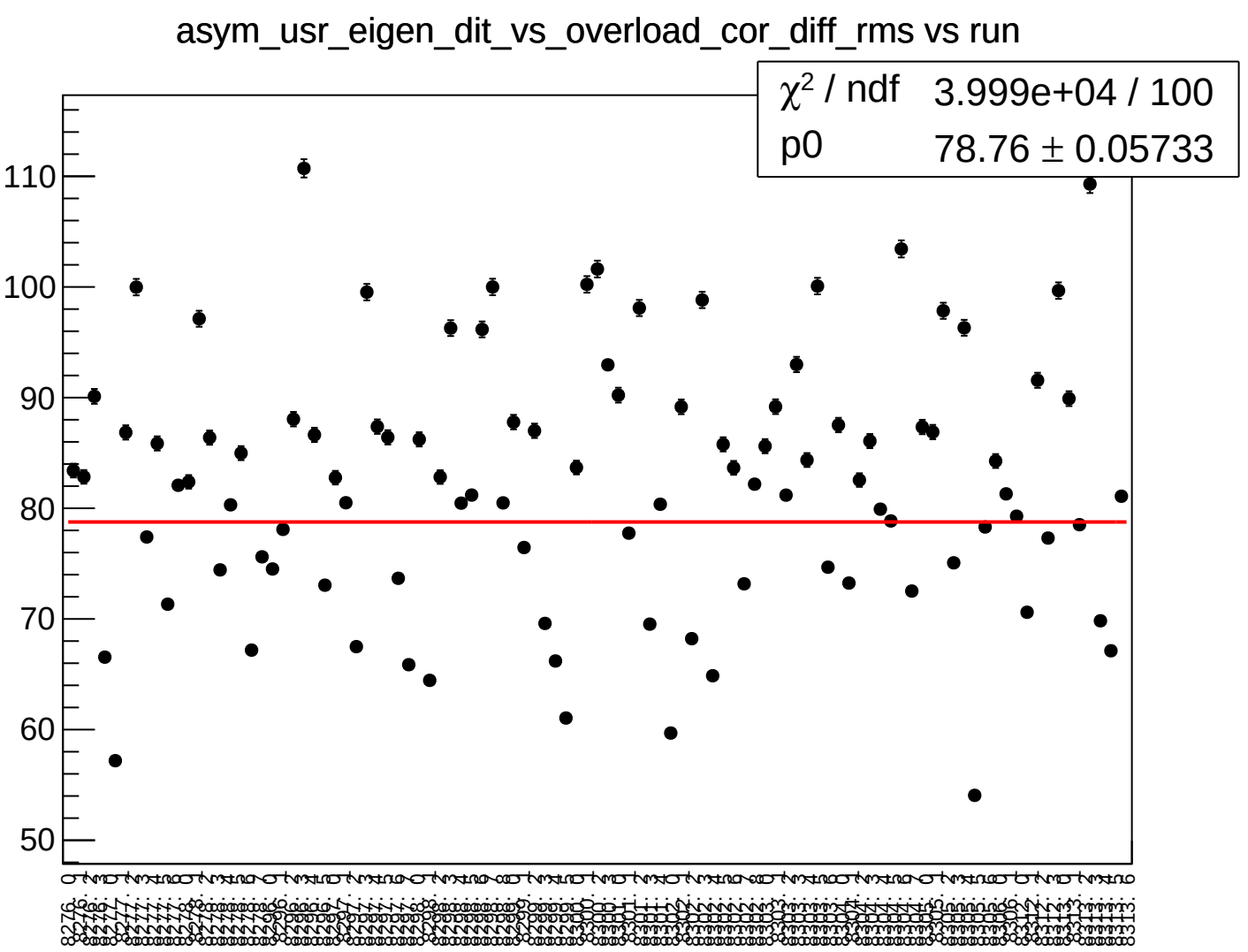

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.969e+04 / 100
p0 54.68 ± 0.04033
100
90
80
70
60
50
40
30

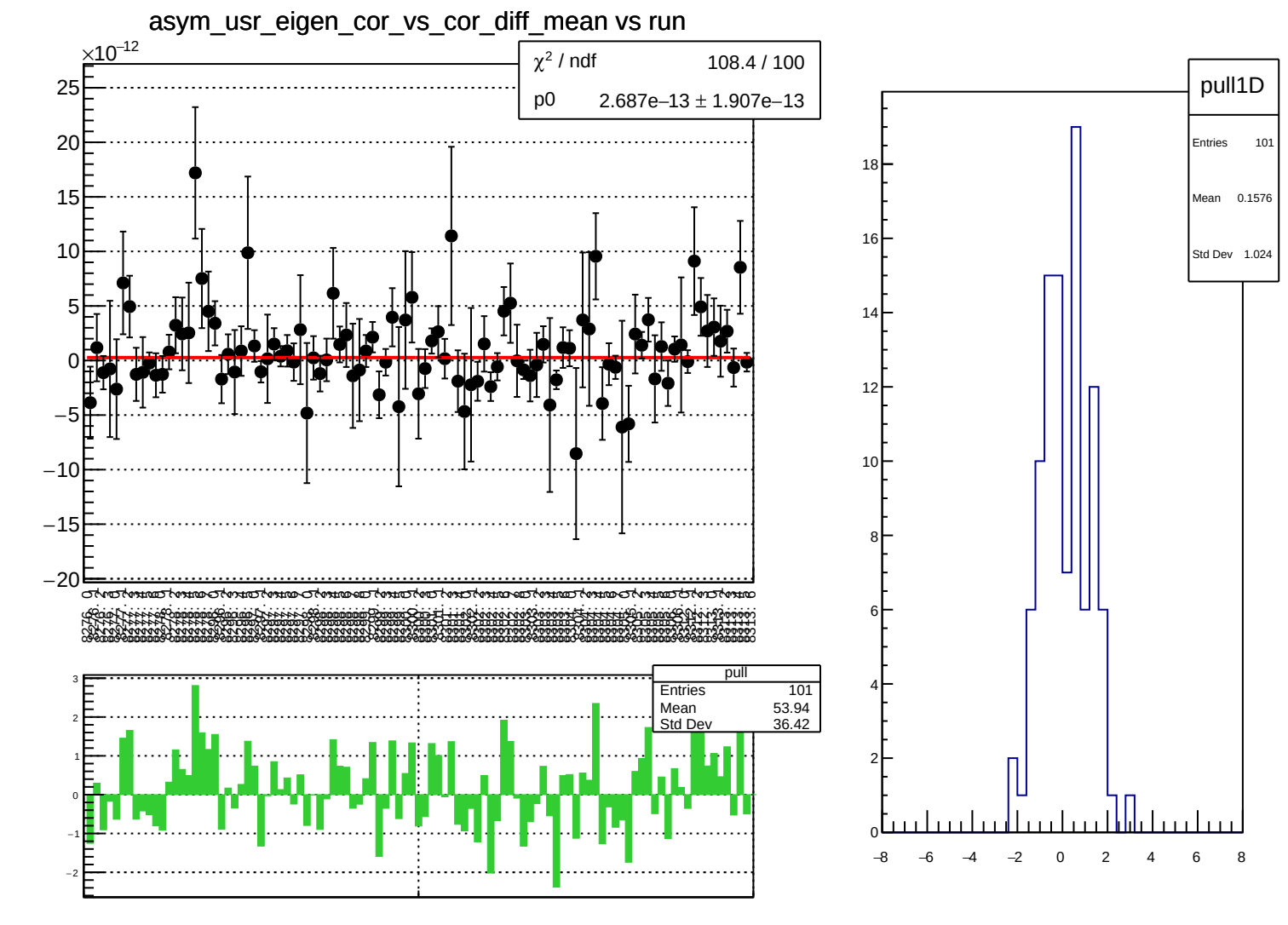

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 117.7 / 100
p0 −0.08548 ± 0.05704
pull
Entries 101
Mean 137.9
Std Dev 0
pull1D
Entries 101
Mean −0.02265
Std Dev 1.079

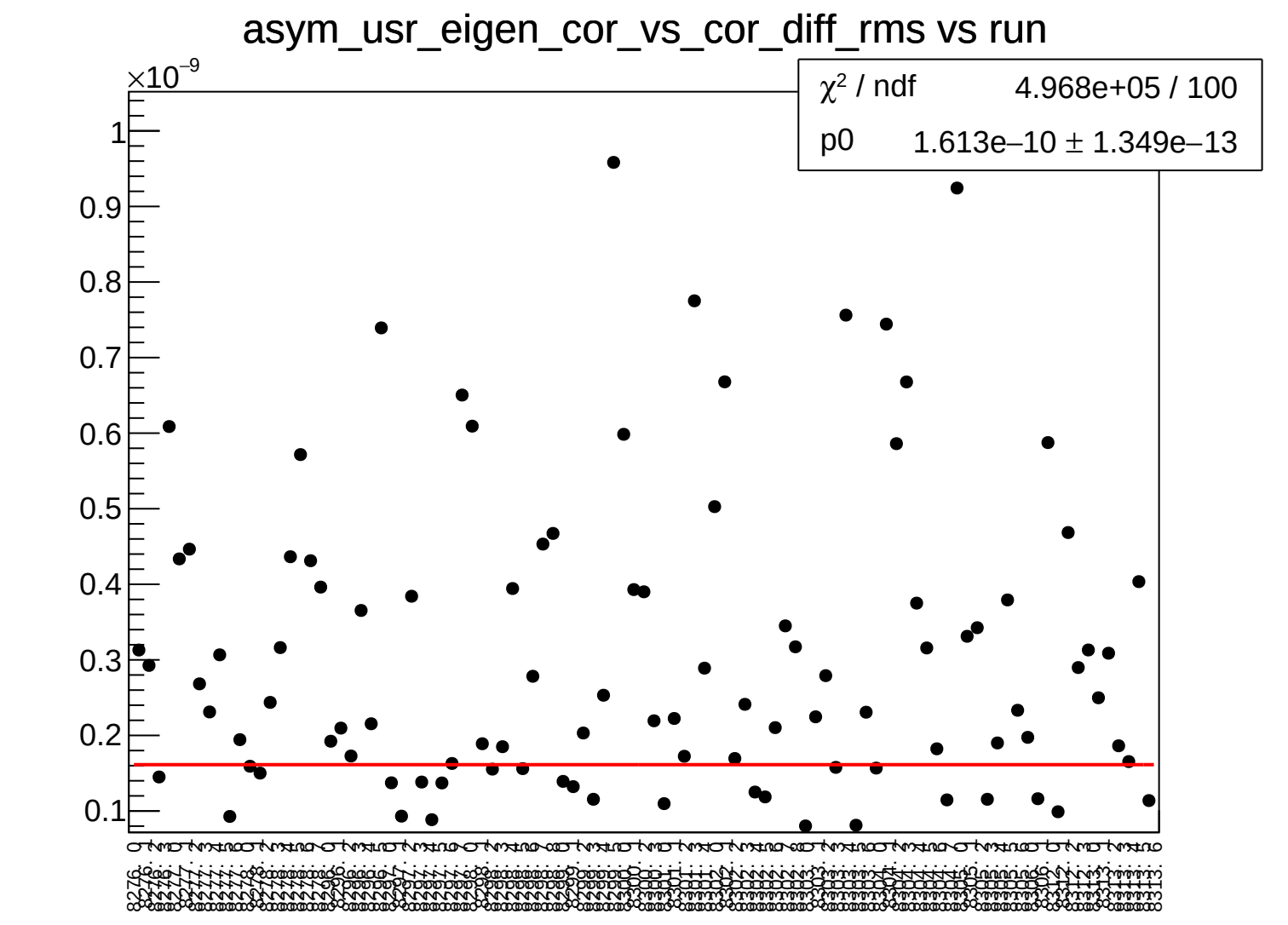

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.969e+04 / 100
p0 54.68 ± 0.04033
100
90
80
70
60
50
40
30

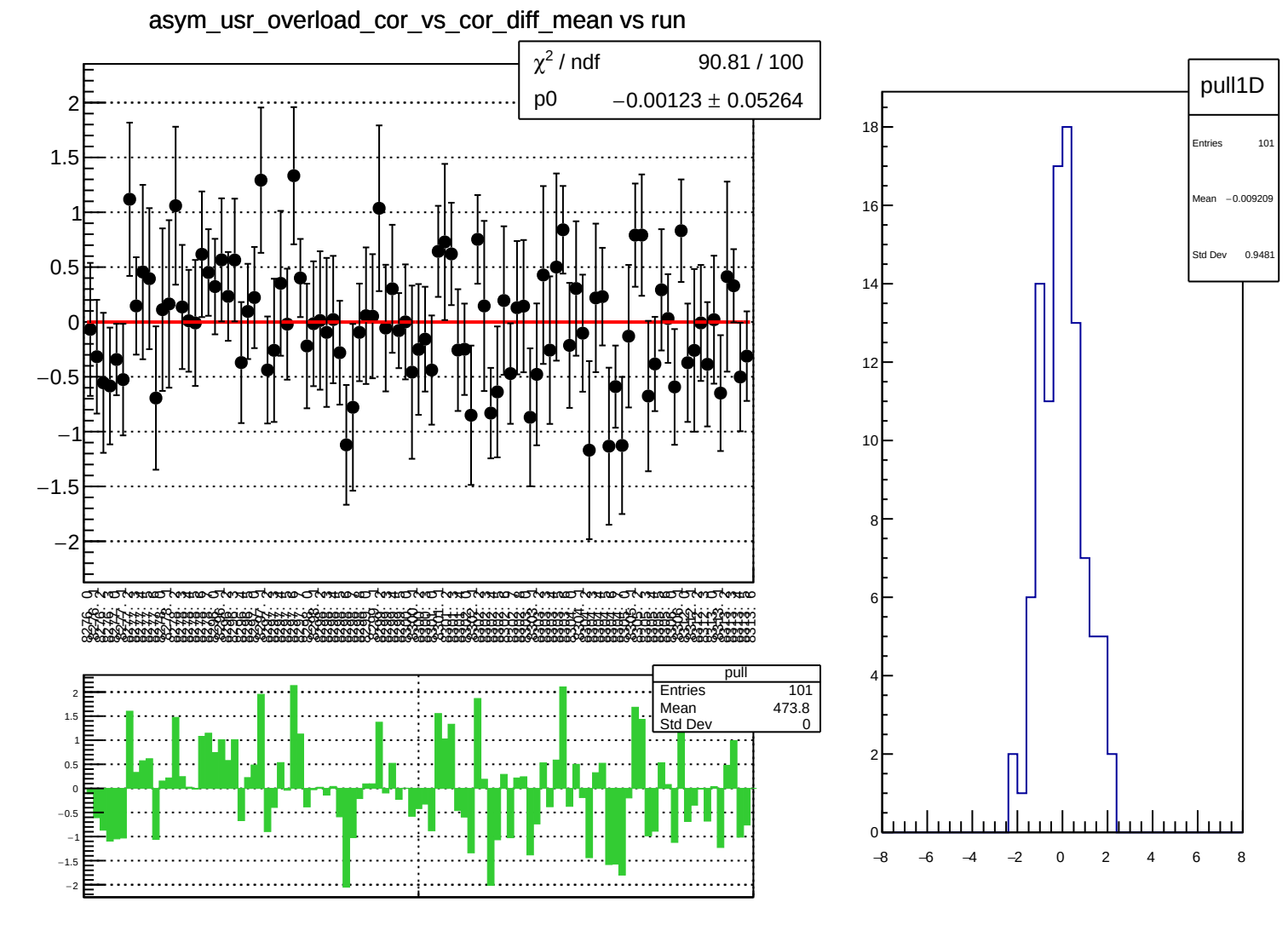

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 106.2 / 100
p0 −0.1014 ± 0.08108
pull
Entries 101
Mean −730
Std Dev 0

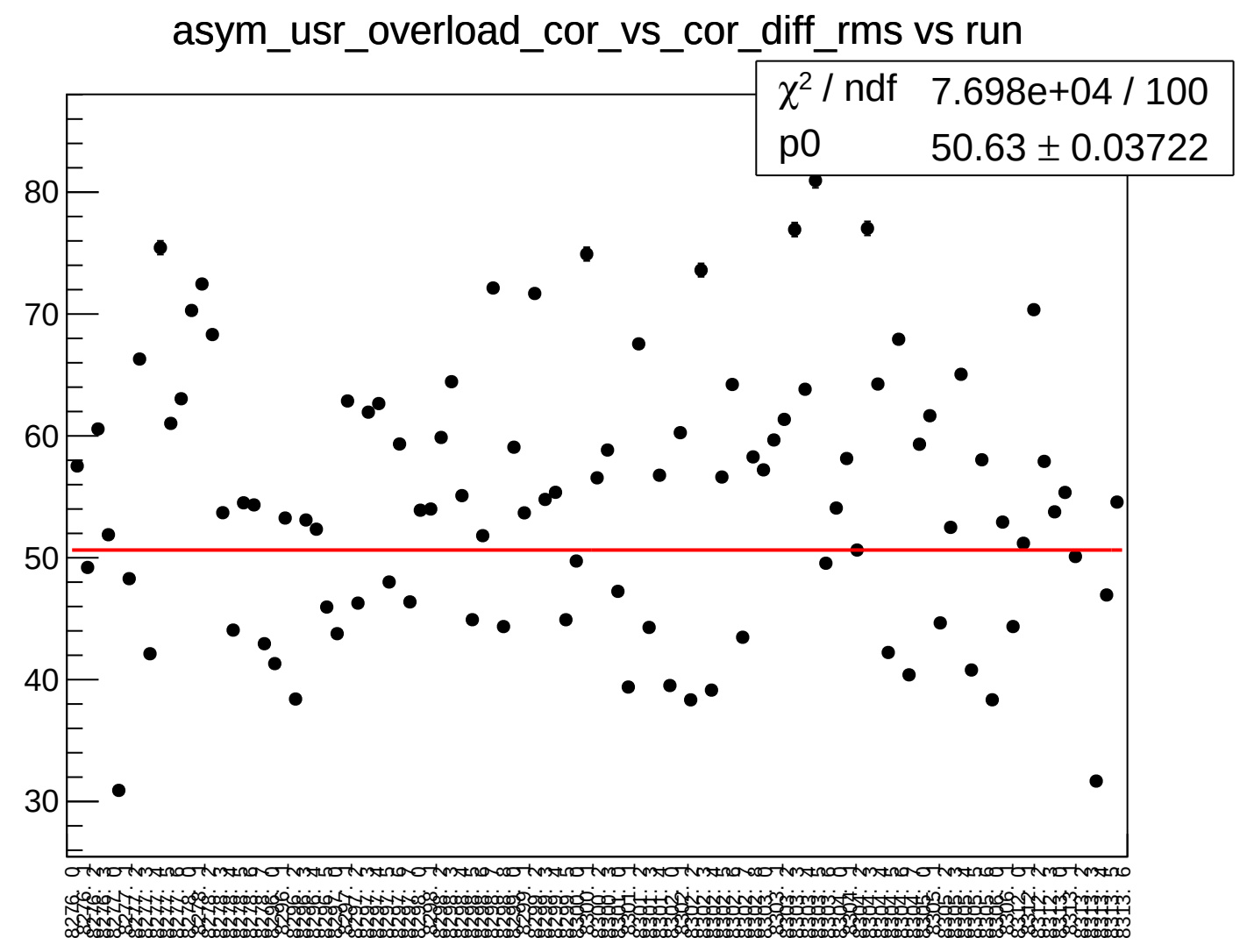

pull1D
Entries 101
Mean −0.002493
Std Dev 1.025

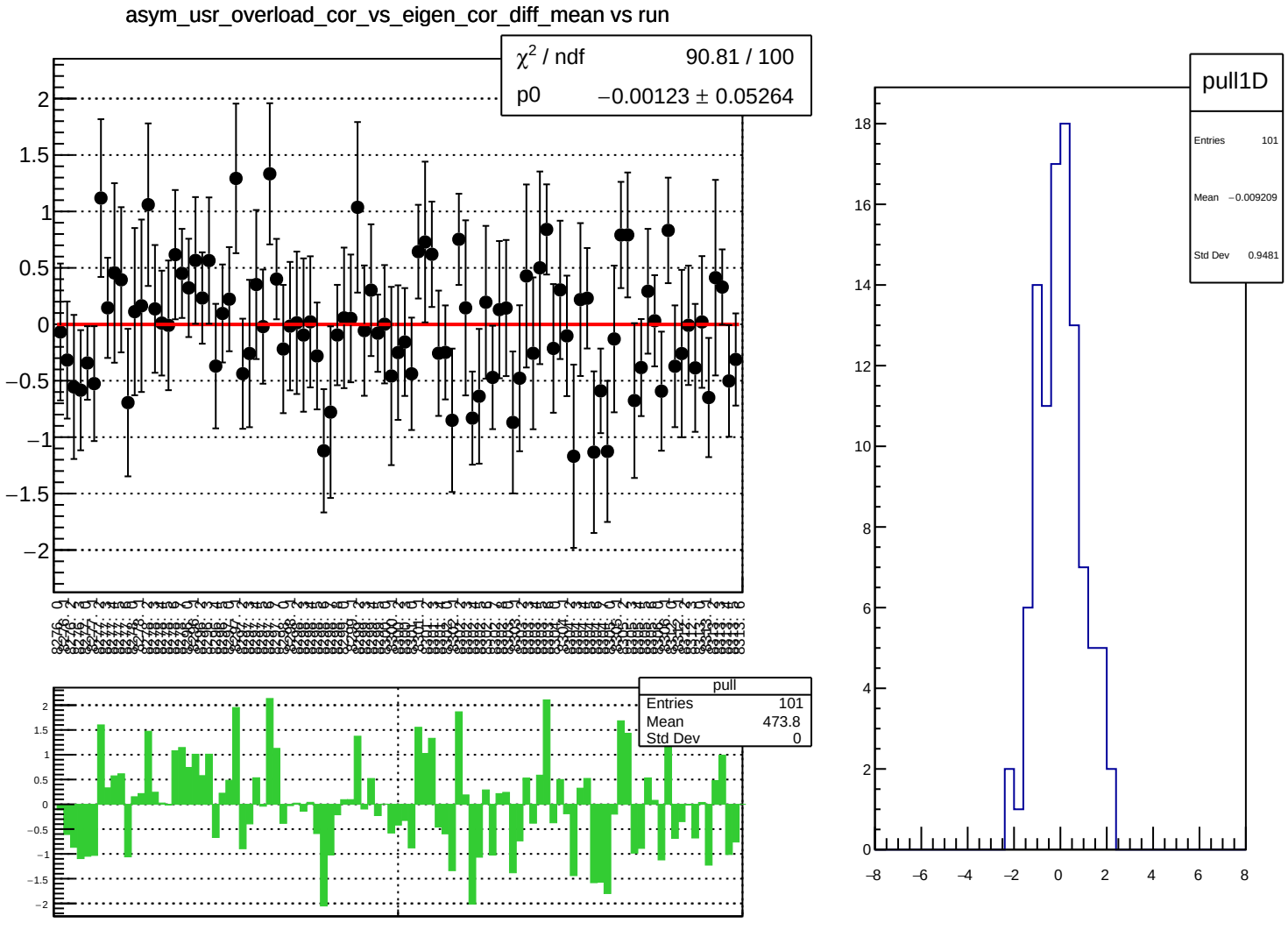

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 3.999e+04 / 100
p0 78.76 ± 0.05733
110
100
90
80
70
60
50

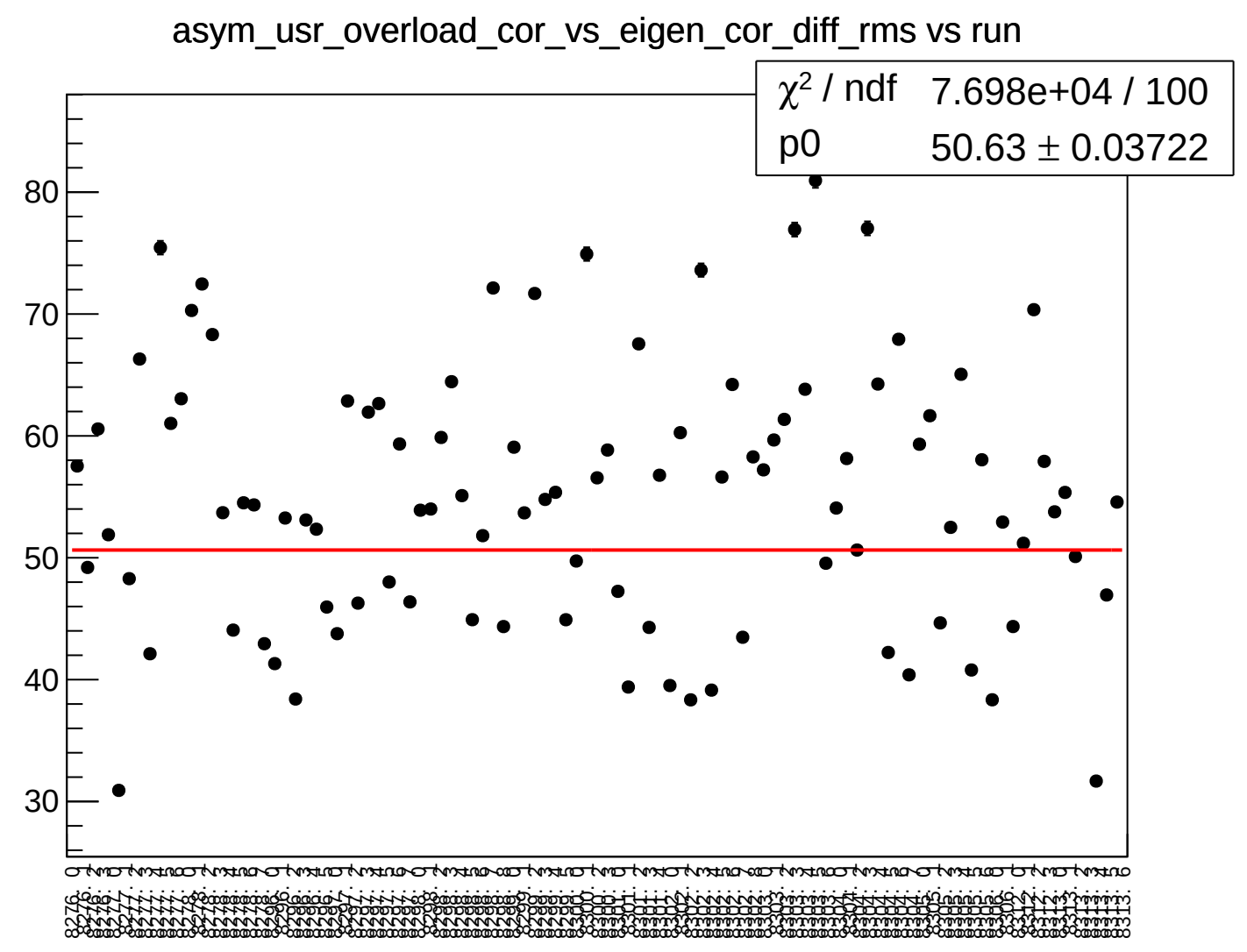

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 108.4 / 100
p0 2.687e−13 ± 1.907e−13
pull
Entries 101
Mean 53.94
Std Dev 36.42
pull1D
Entries 101
Mean 0.1576
Std Dev 1.024

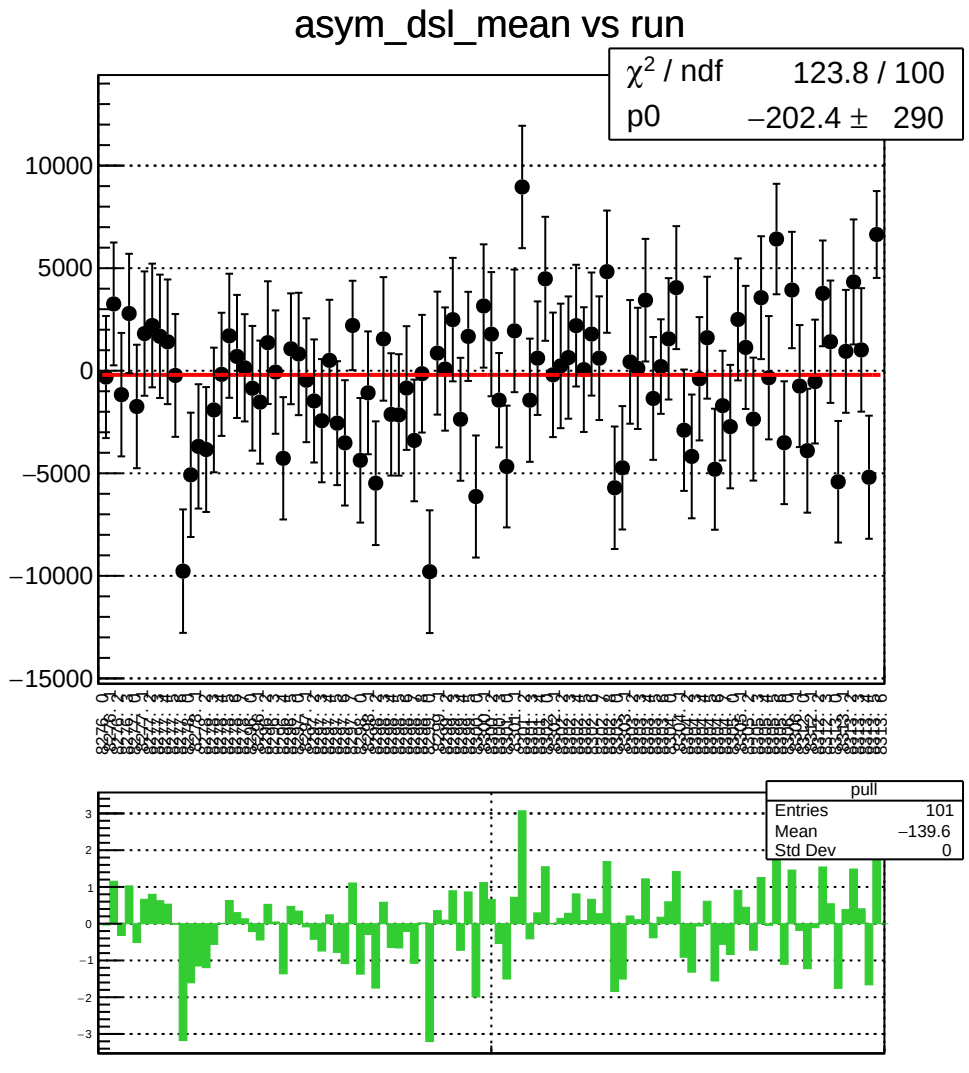

asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.968e+05 / 100
p0 1.613e−10 ± 1.349e−13
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

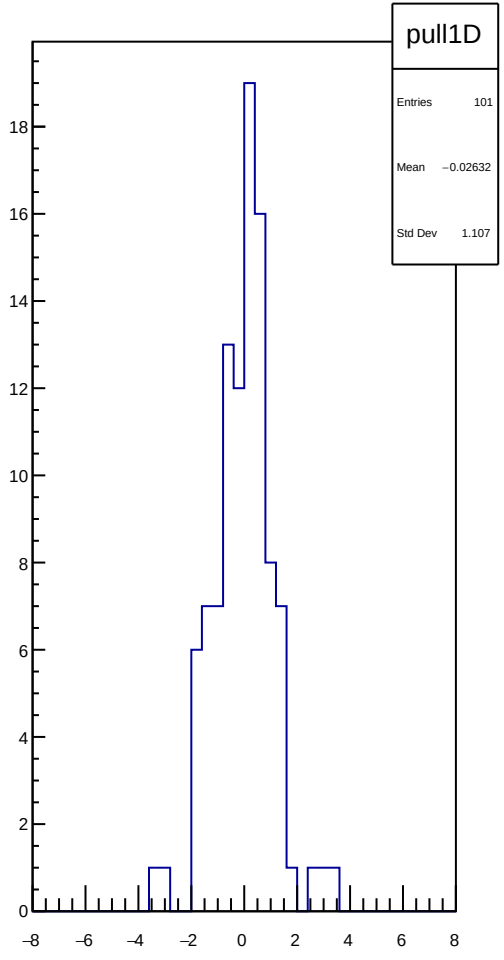

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 90.81 / 100
p0 −0.00123 ± 0.05264
pull
Entries 101
Mean 473.8
Std Dev 0
pull1D
Entries 101
Mean −0.009209
Std Dev 0.9481

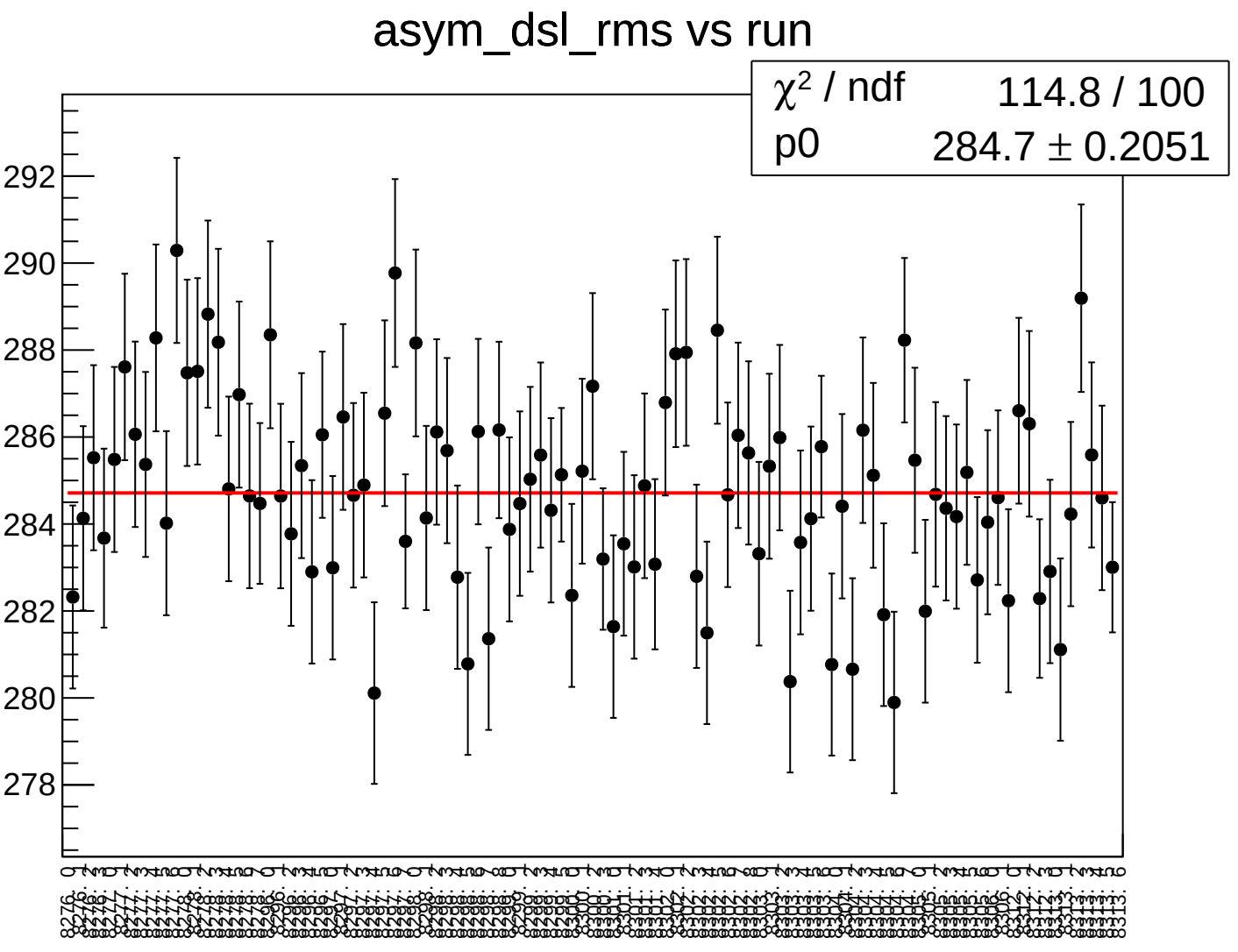

asym_usr_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 7.698e+04 / 100
p0 50.63 ± 0.03722
80
70
60
50
40
30

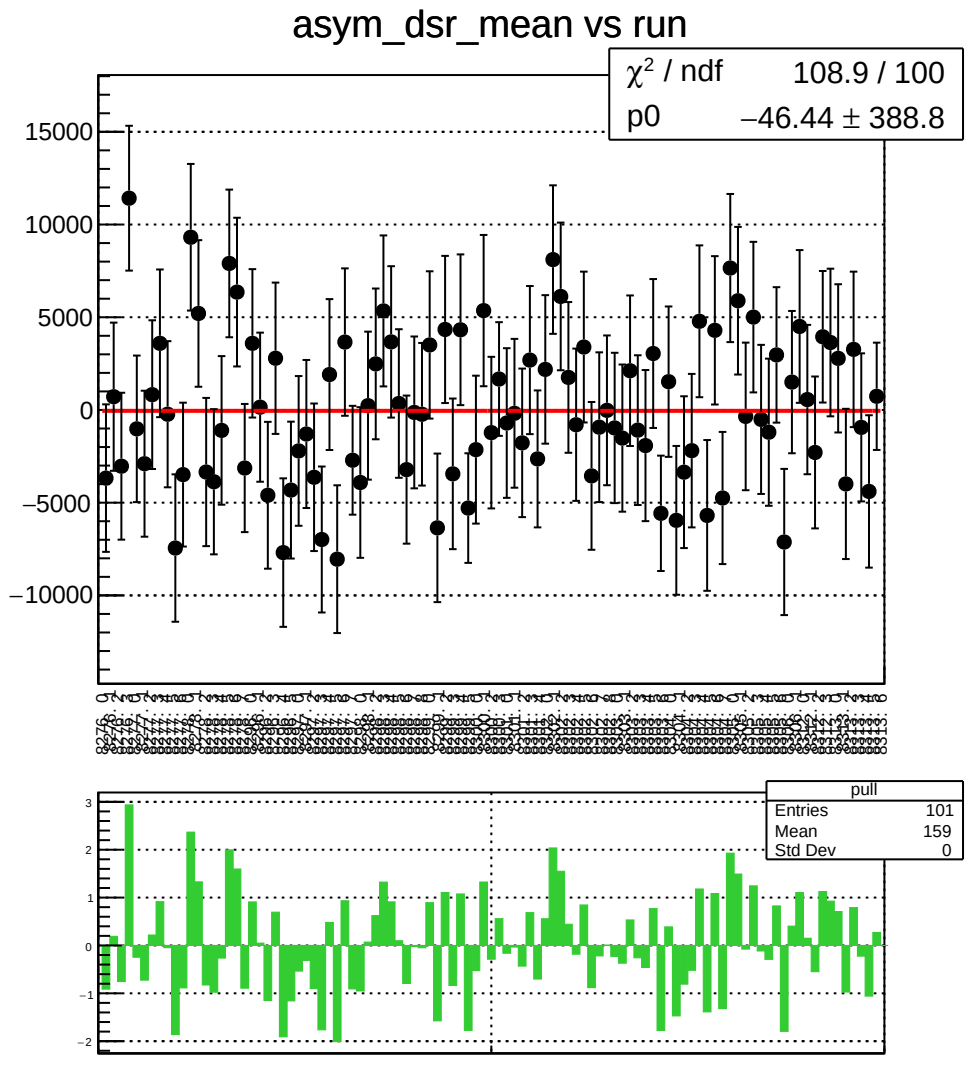

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.81 / 100
p0 −0.00123 ± 0.05264
pull
Entries 101
Mean 473.8
Std Dev 0
pull1D
Entries 101
Mean −0.009209
Std Dev 0.9481

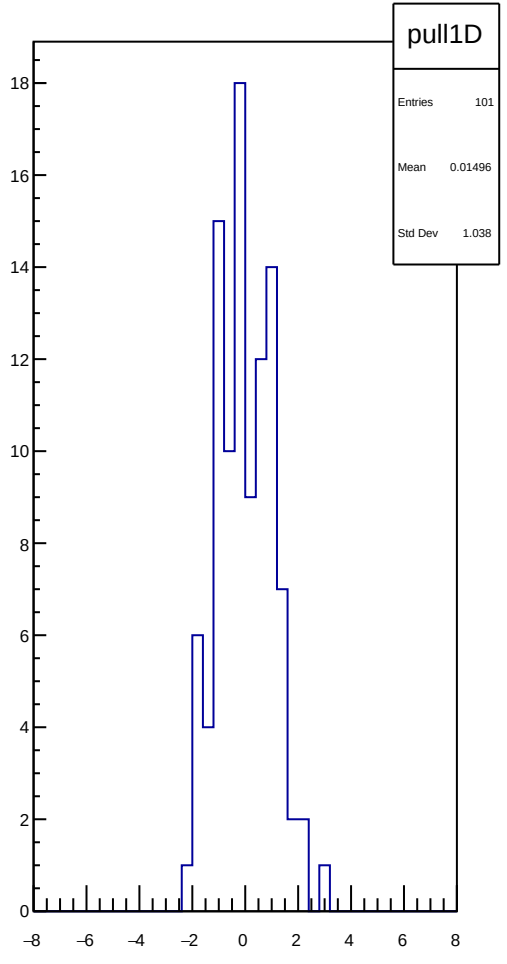

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.698e+04 / 100
p0 50.63 ± 0.03722
80
70
60
50
40
30

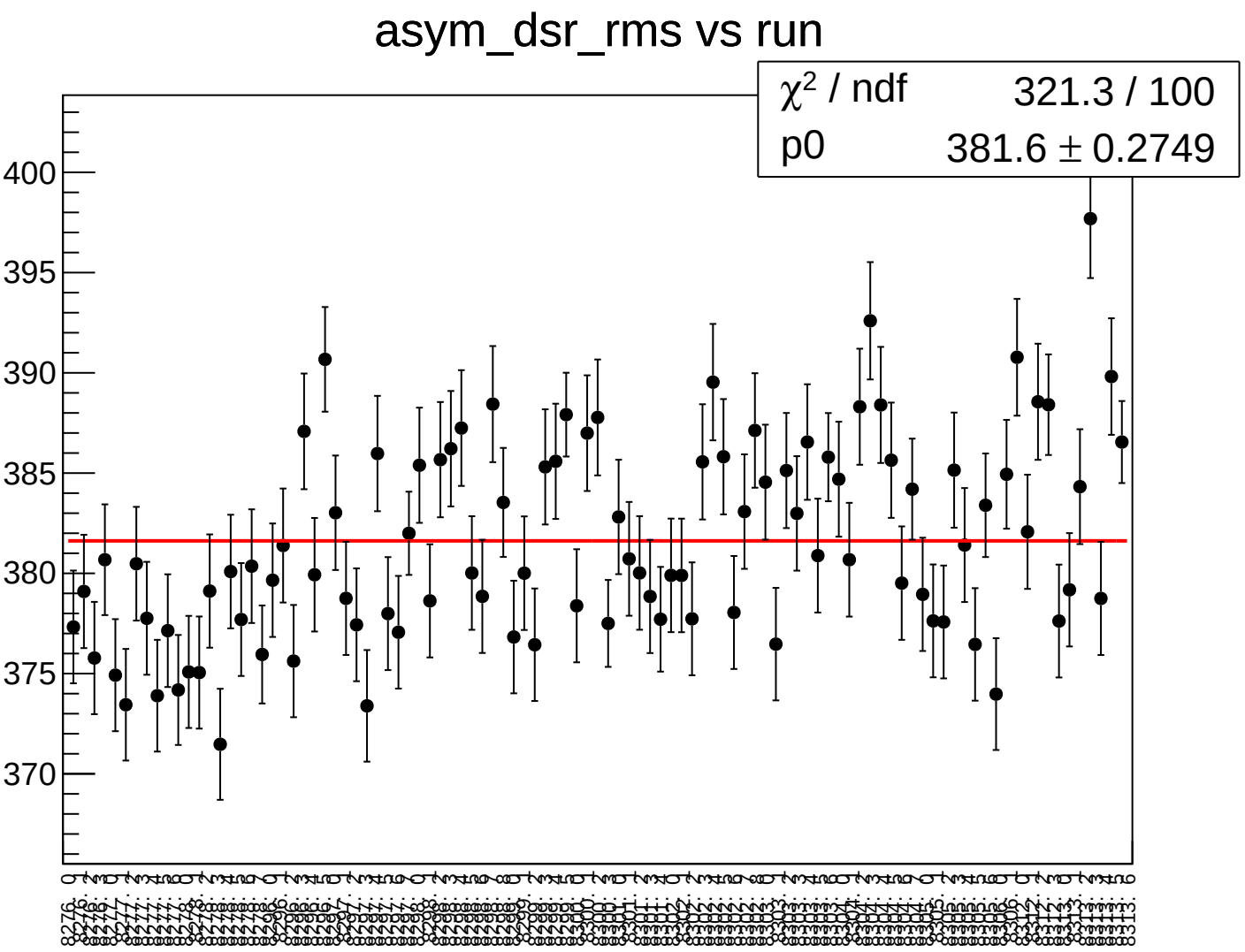

asym_dsl_mean vs run
χ² / ndf 123.8 / 100
p0 −202.4 ± 290
10000
5000
0
−5000
−10000
−15000
pull
Entries 101
Mean −139.6
Std Dev 0
3
2
1
0
−1
−2
−3

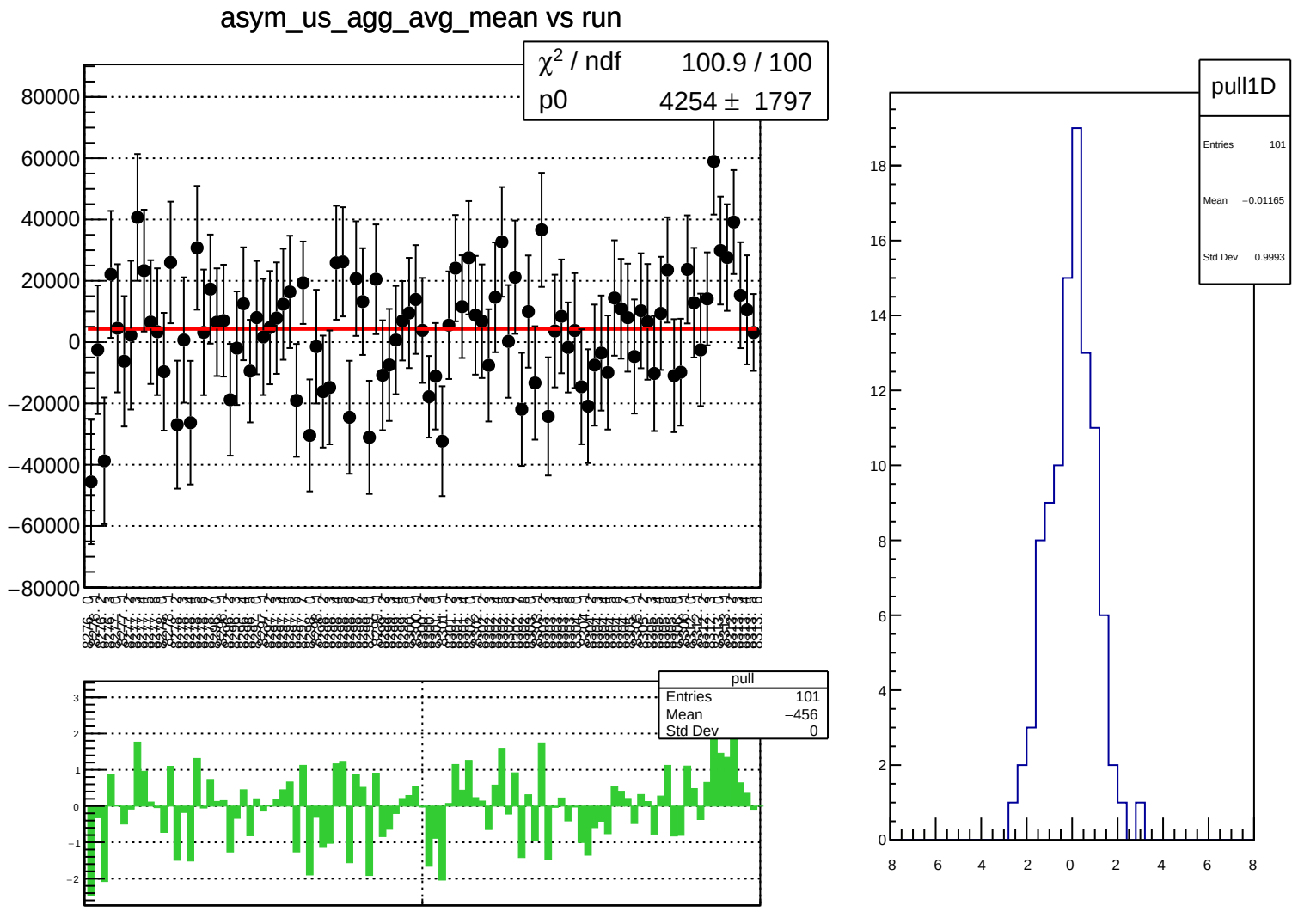

pull1D
Entries 101
Mean −0.02632
Std Dev 1.107
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

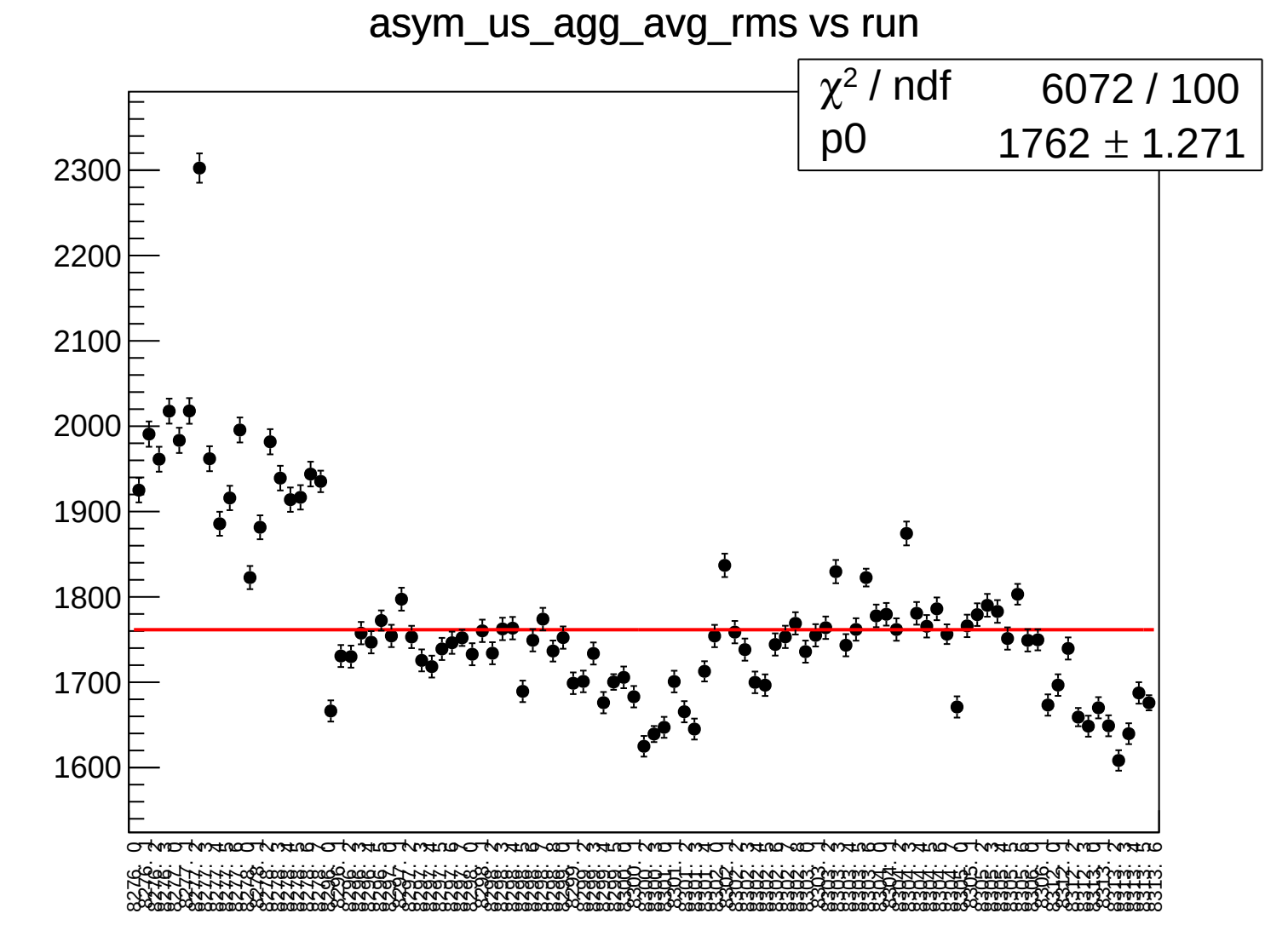

asym_dsl_rms vs run
χ² / ndf 114.8 / 100
p0 284.7 ± 0.2051
292
290
288
286
284
282
280
278

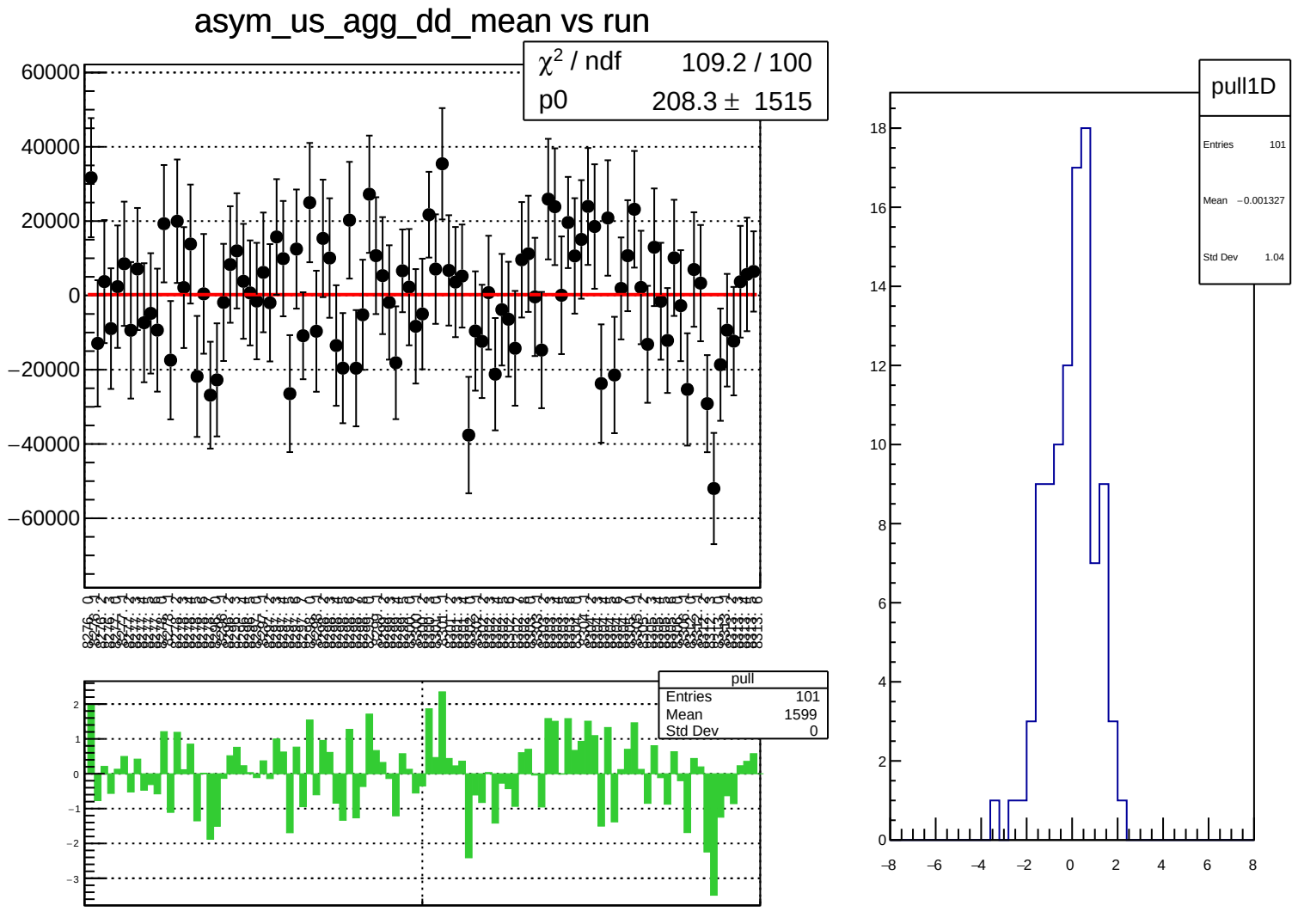

asym_dsr_mean vs run
χ² / ndf 108.9 / 100
p0 −46.44 ± 388.8
15000
10000
5000
0
−5000
−10000
pull
Entries 101
Mean 159
Std Dev 0
3
2
1
0
−1
−2

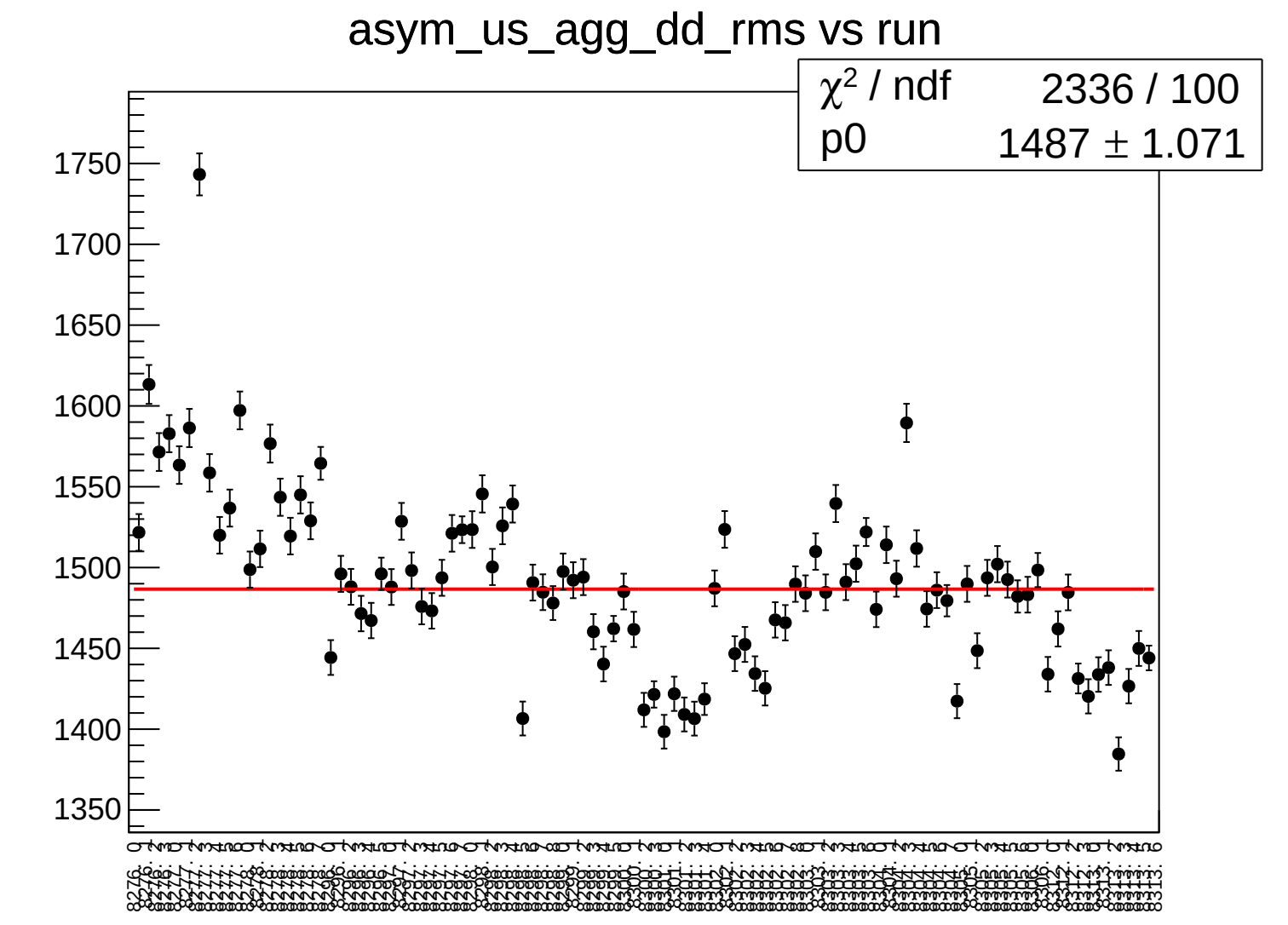

pull1D
Entries 101
Mean 0.01496
Std Dev 1.038
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

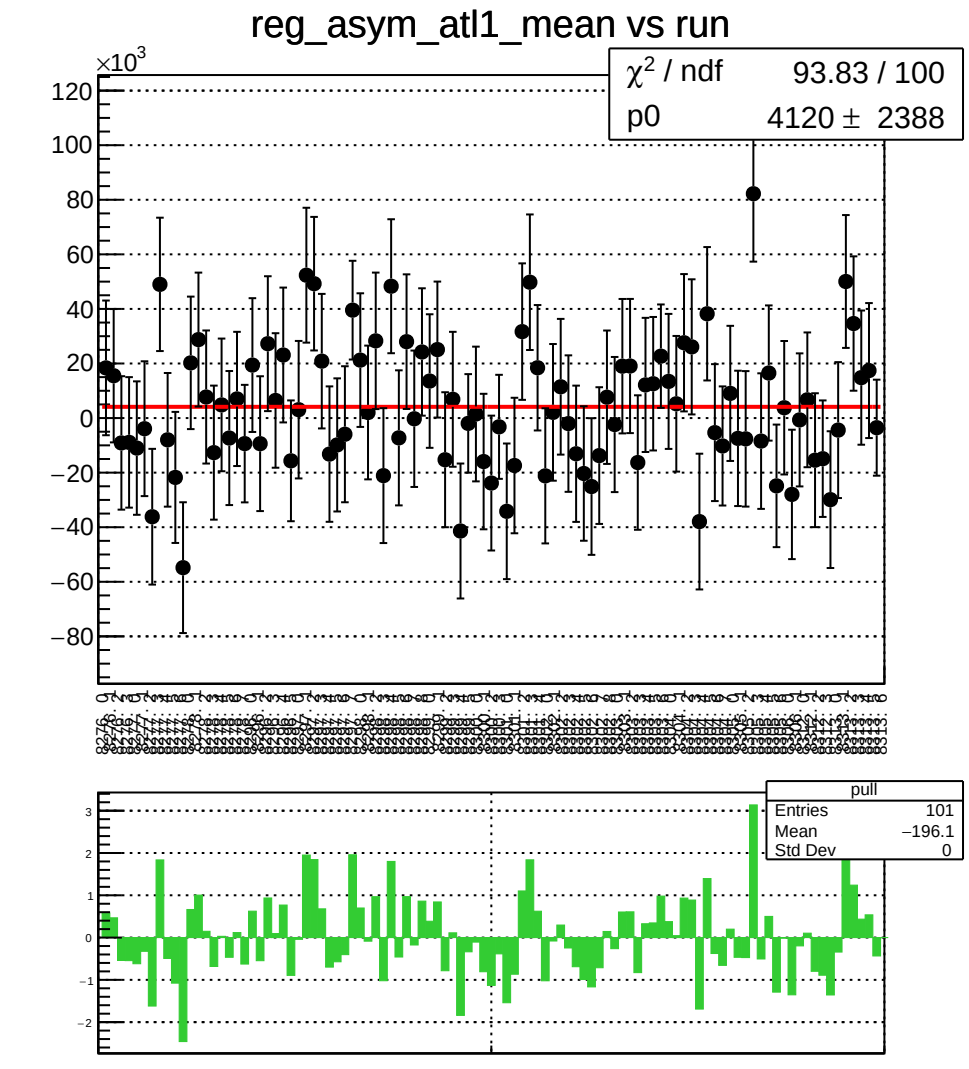

asym_dsr_rms vs run
χ² / ndf 321.3 / 100
p0 381.6 ± 0.2749
400
395
390
385
380
375
370

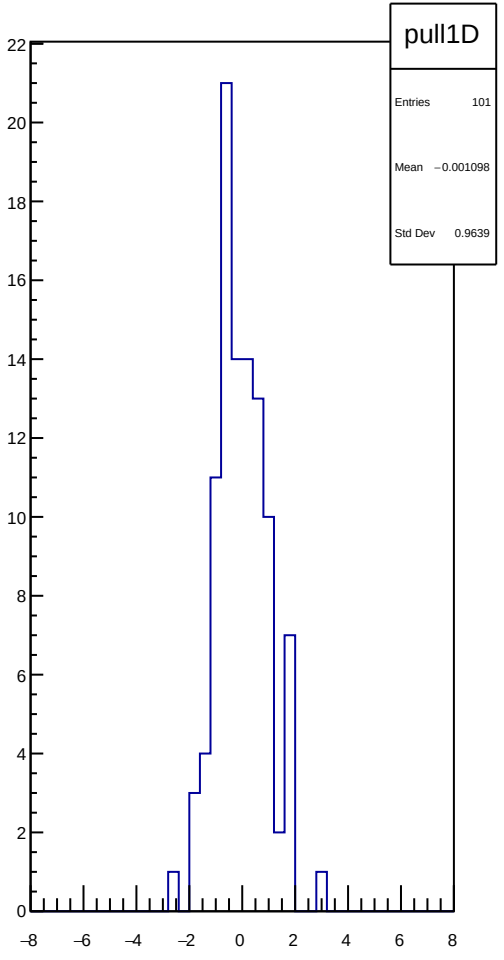

asym_us_agg_avg_mean vs run
χ² / ndf 100.9 / 100
p0 4254 ± 1797
pull
Entries 101
Mean −456
Std Dev 0
pull1D
Entries 101
Mean −0.01165
Std Dev 0.9993

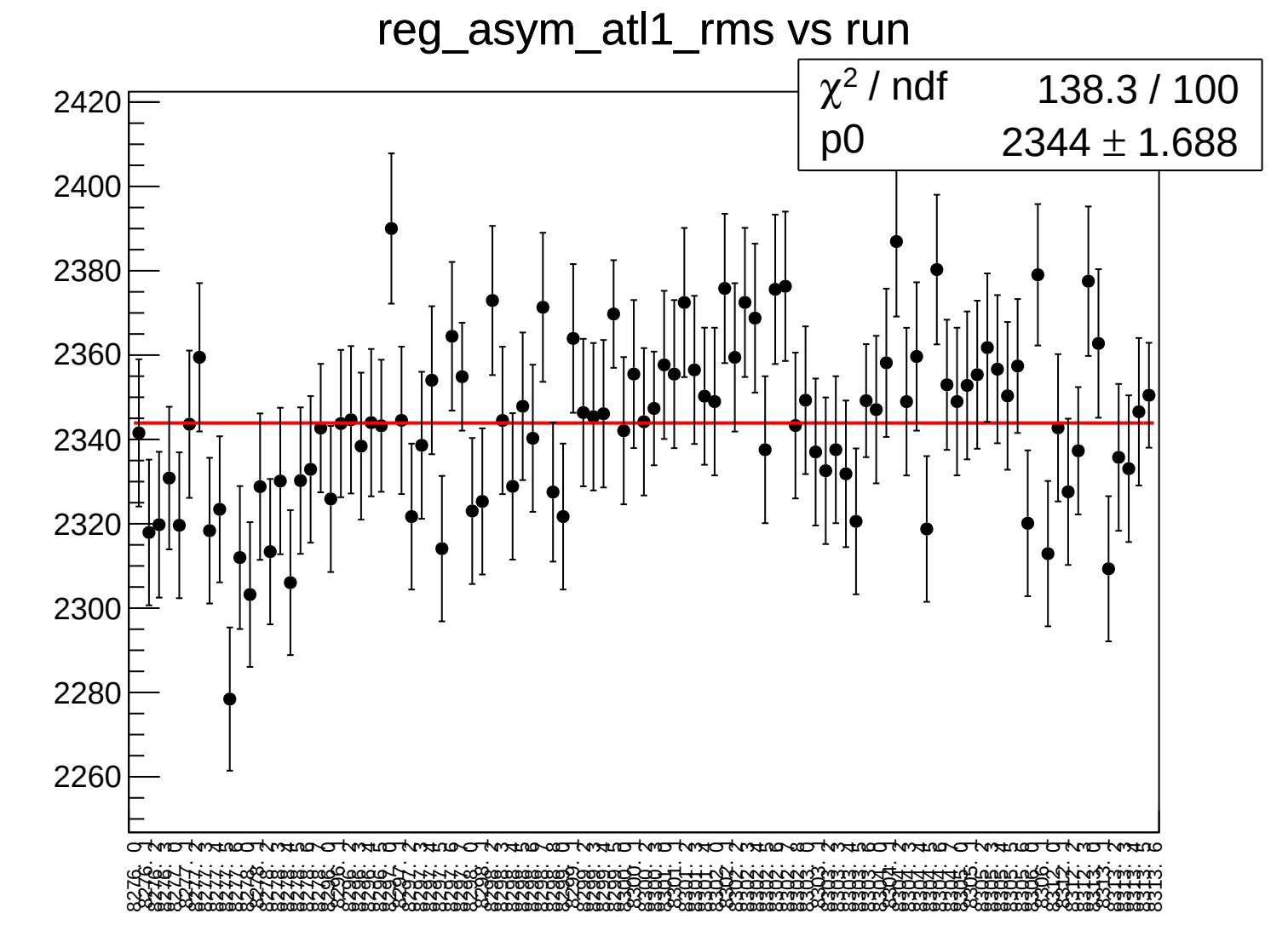

asym_us_agg_avg_rms vs run
χ^2 / ndf 6072 / 100
p0 1762 ± 1.271
2300
2200
2100
2000
1900
1800
1700
1600

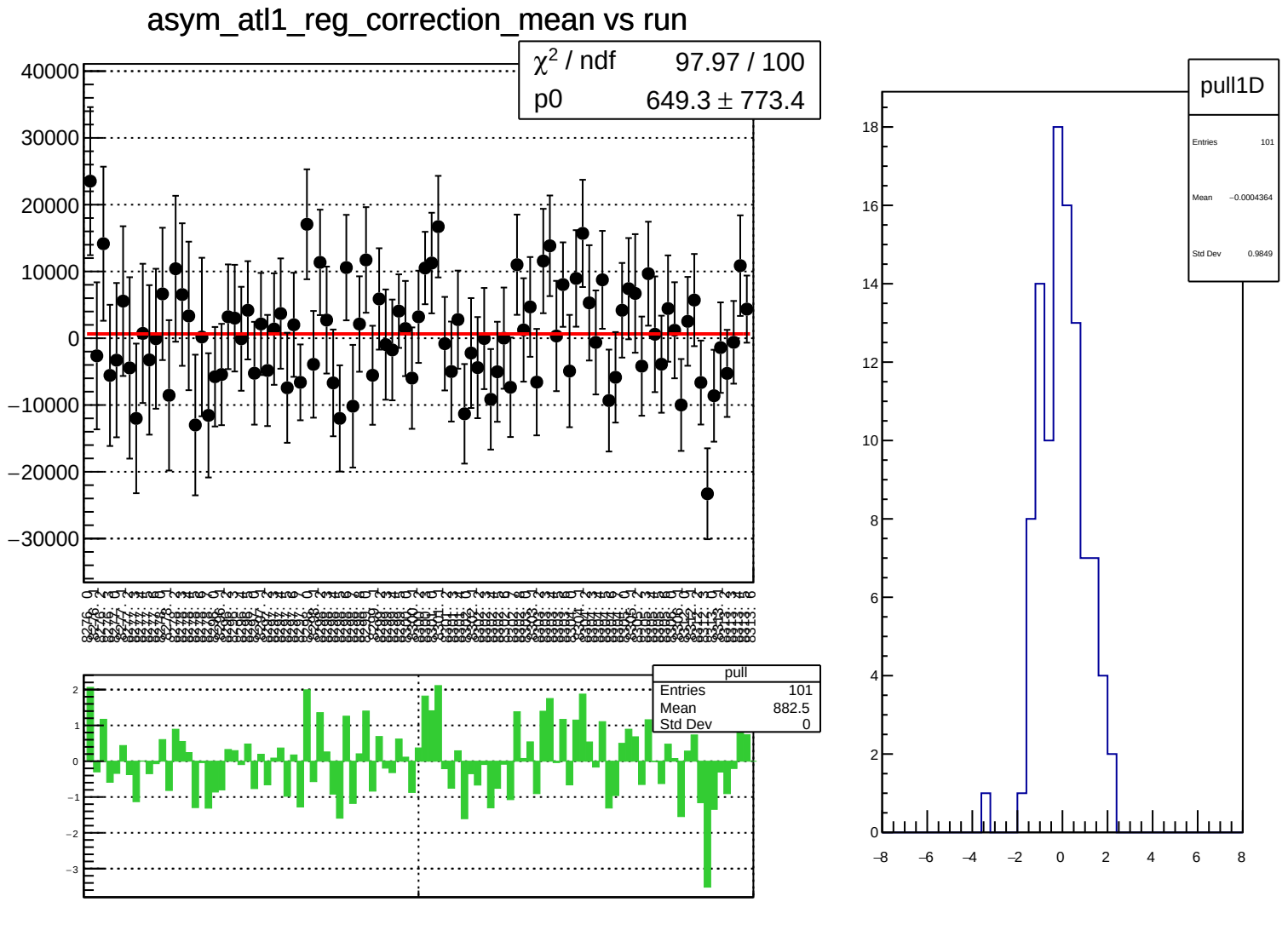

asym_us_agg_dd_mean vs run
χ² / ndf 109.2 / 100
p0 208.3 ± 1515
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean 1599
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean −0.001327
Std Dev 1.04
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

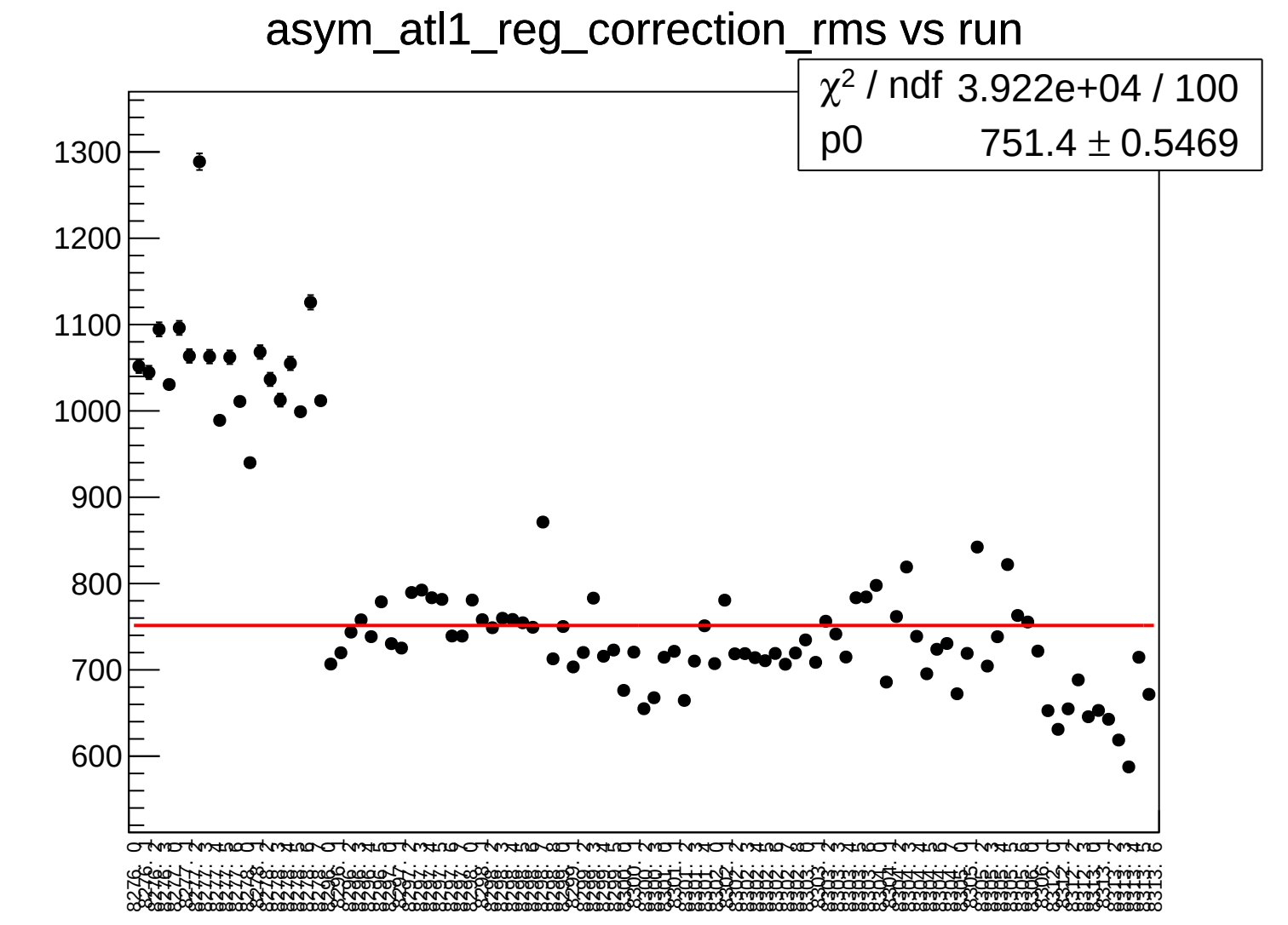

asym_us_agg_dd_rms vs run
χ² / ndf 2336 / 100
p0 1487 ± 1.071
1750
1700
1650
1600
1550
1500
1450
1400
1350

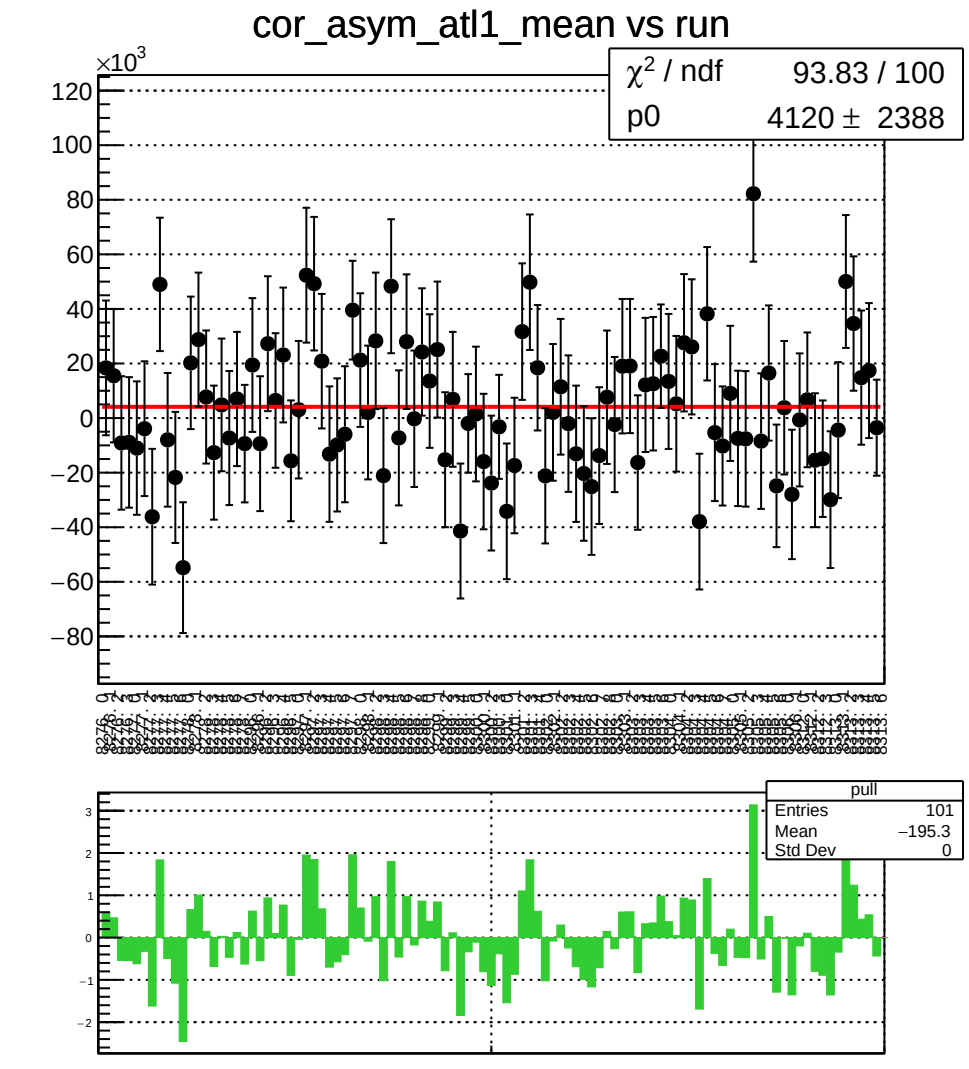

reg_asym_atl1_mean vs run
×10^3
χ^2 / ndf 93.83 / 100
p0 4120 ± 2388
pull
Entries 101
Mean −196.1
Std Dev 0

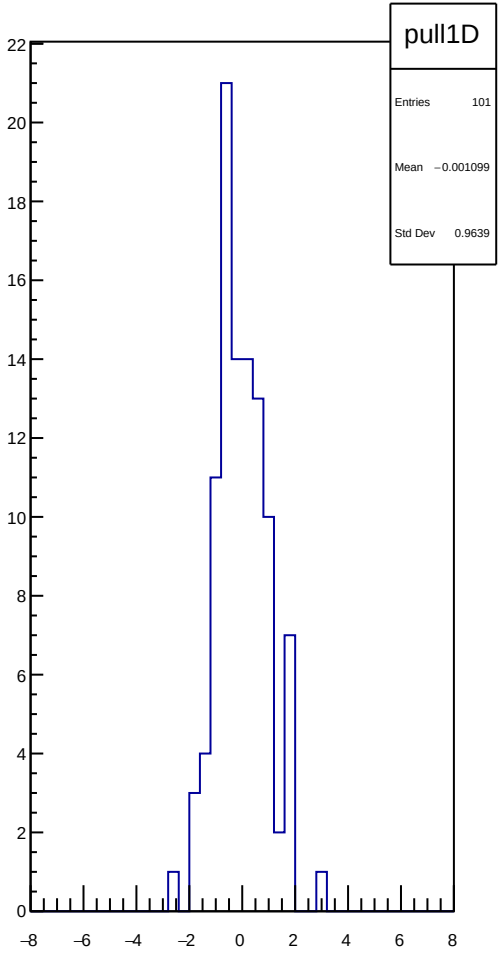

pull1D
Entries 101
Mean −0.001098
Std Dev 0.9639

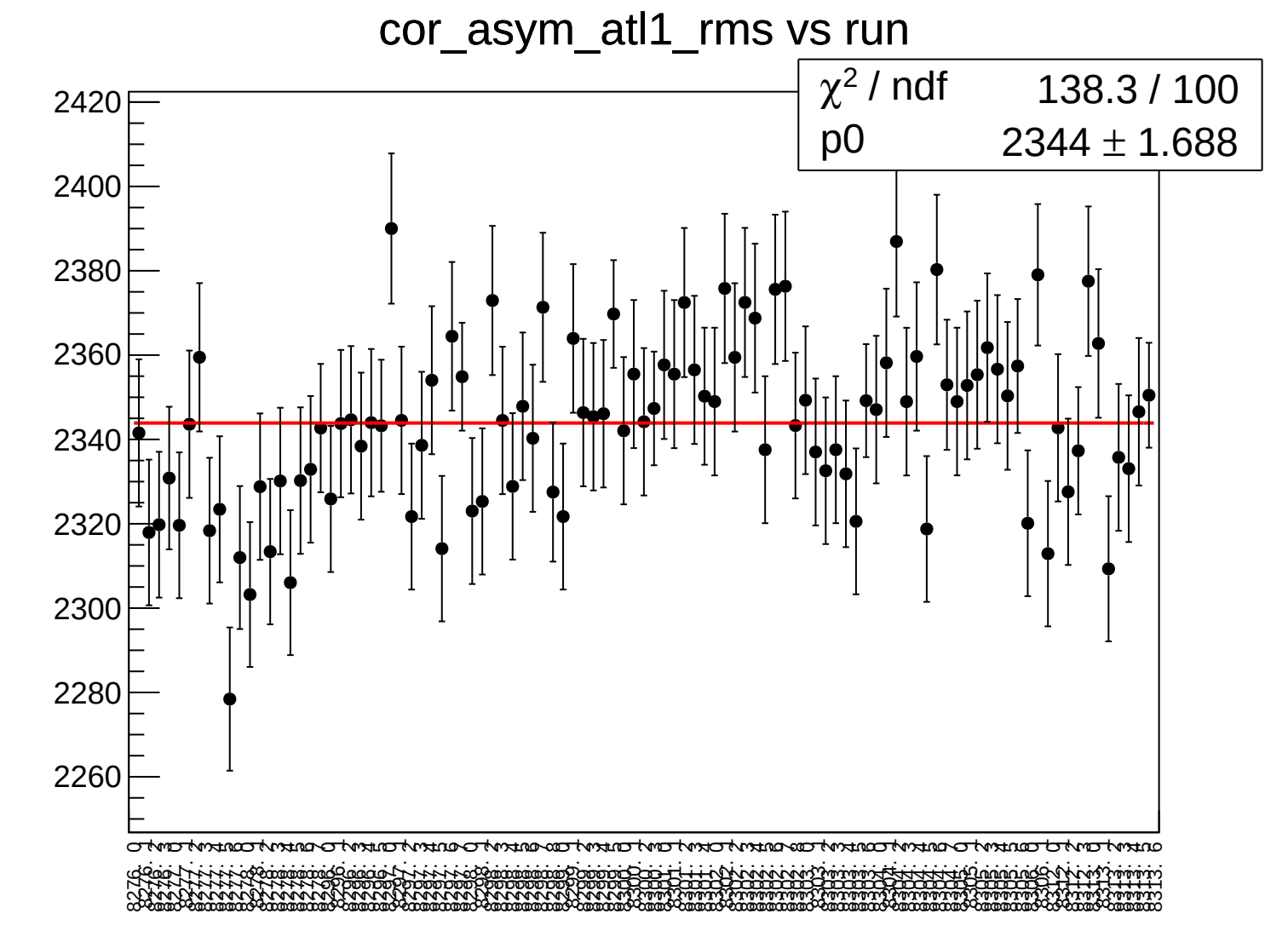

reg_asym_atl1_rms vs run
χ² / ndf 138.3 / 100
p0 2344 ± 1.688
2420
2400
2380
2360
2340
2320
2300
2280
2260

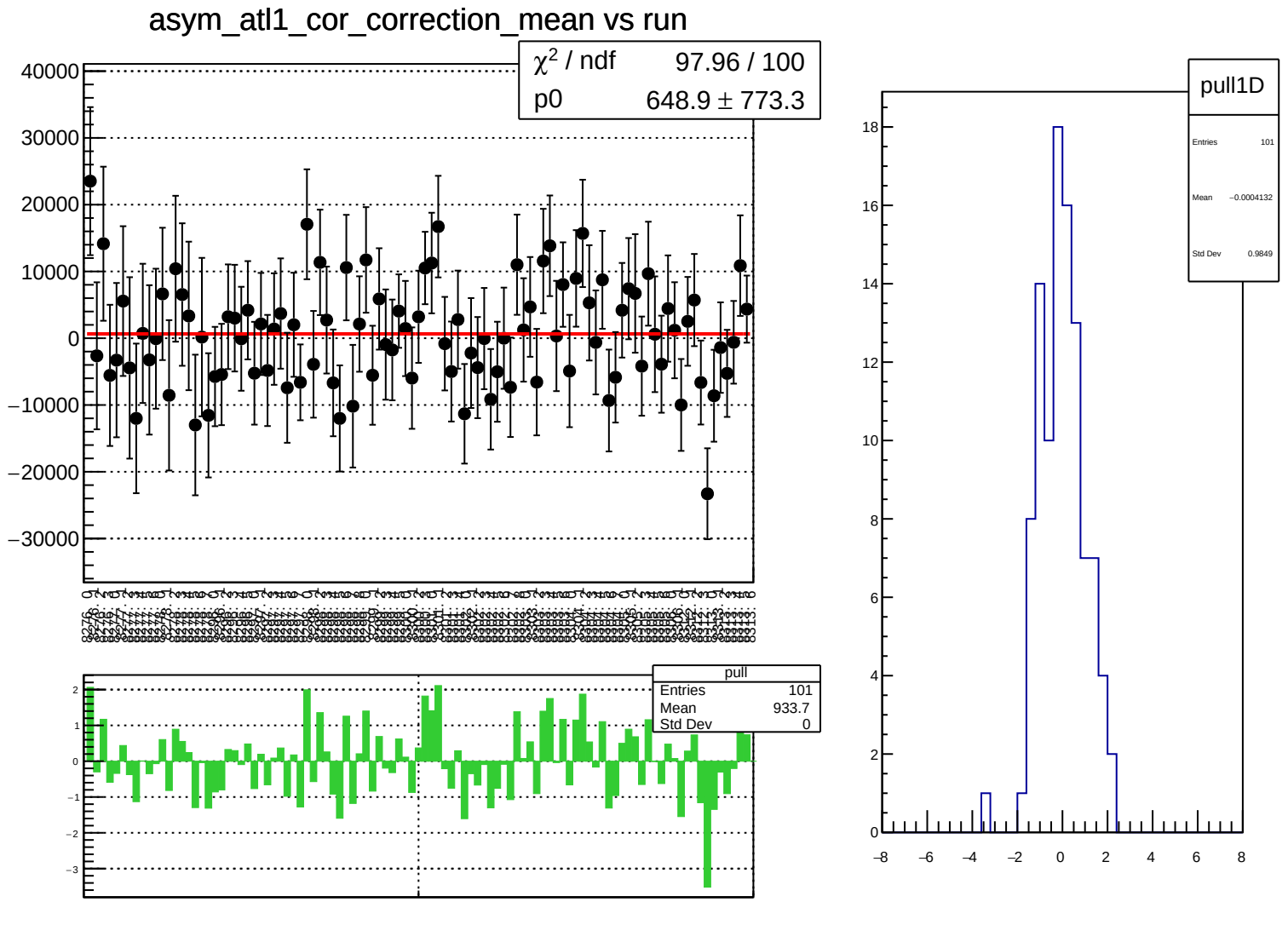

asym_atl1_reg_correction_mean vs run
χ² / ndf 97.97 / 100
p0 649.3 ± 773.4
pull
Entries 101
Mean 882.5
Std Dev 0
pull1D
Entries 101
Mean −0.0004364
Std Dev 0.9849

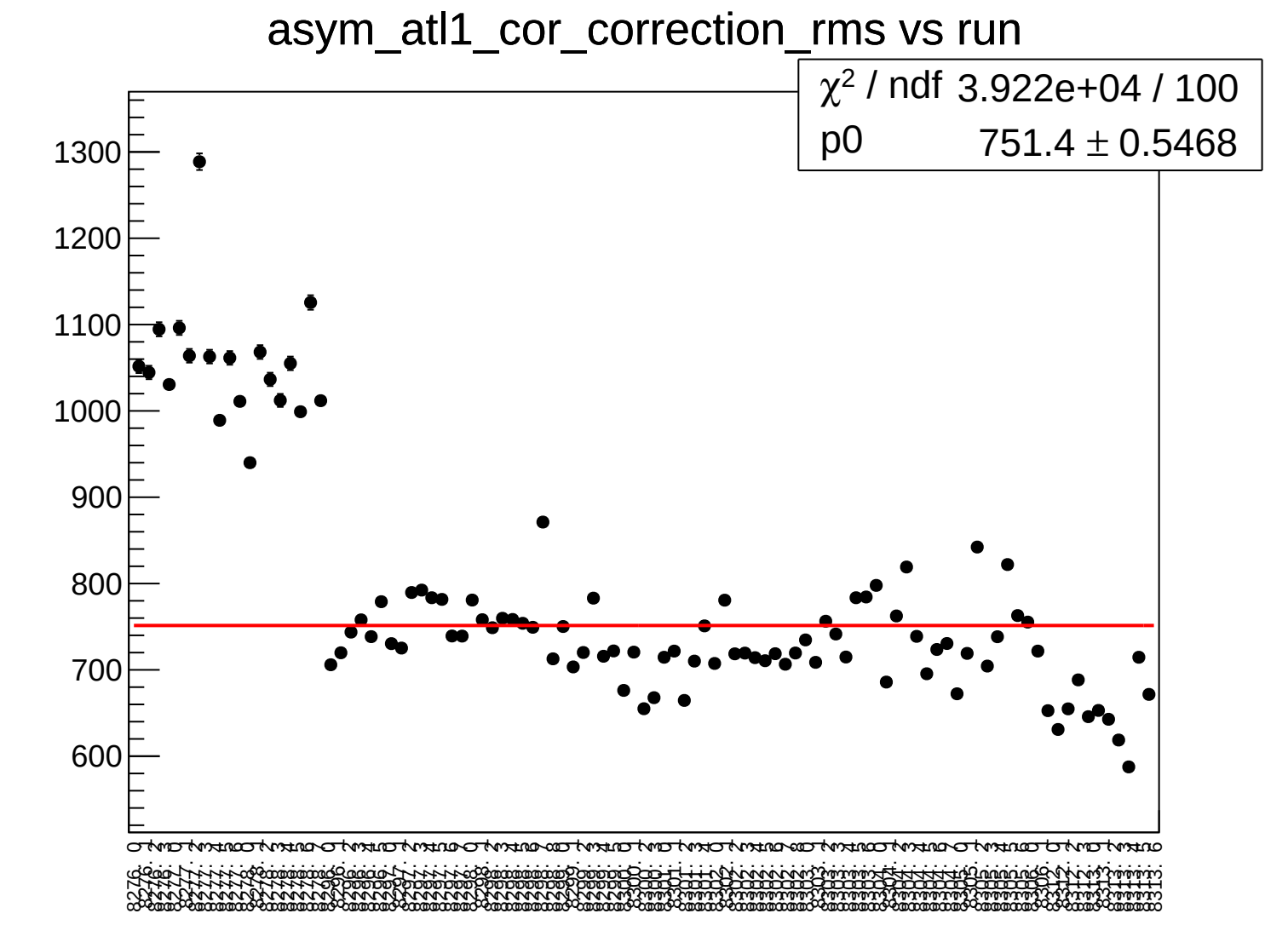

asym_atl1_reg_correction_rms vs run
χ² / ndf 3.922e+04 / 100
p0 751.4 ± 0.5469
1300
1200
1100
1000
900
800
700
600

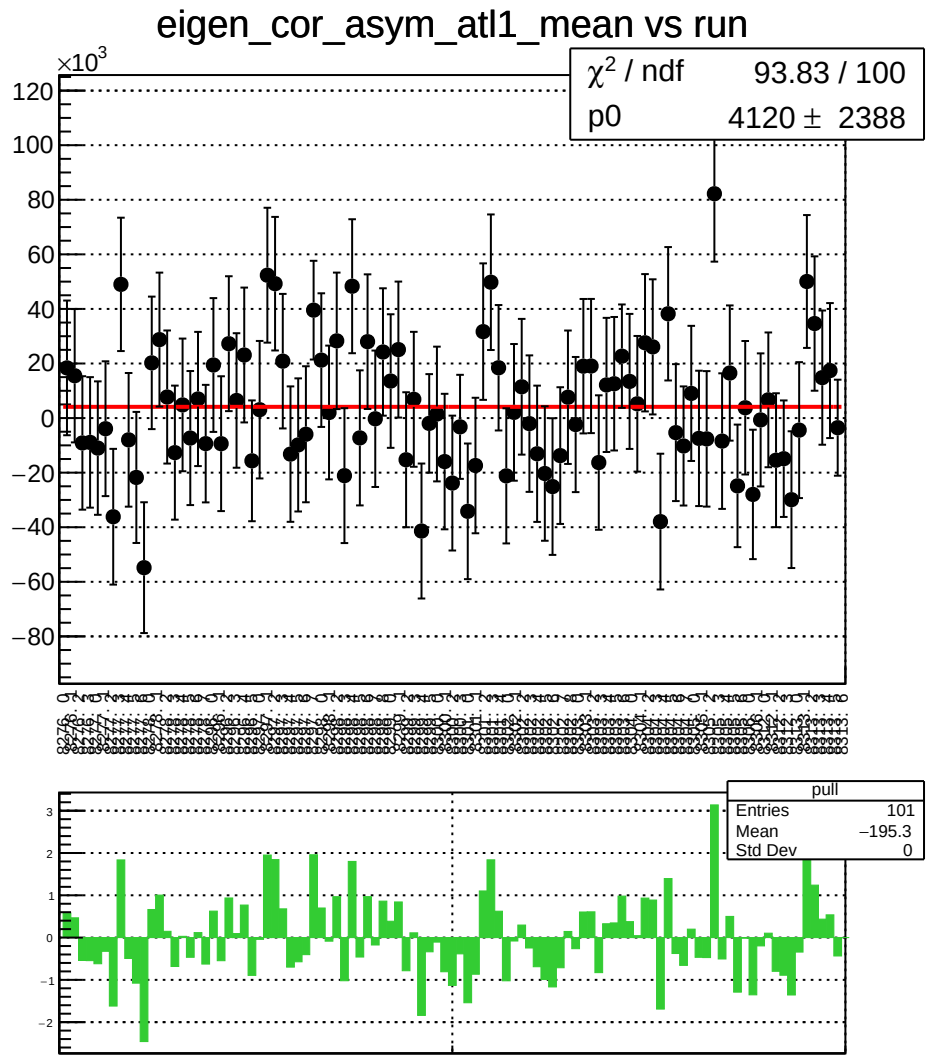

cor_asym_atl1_mean vs run
×10^3
χ^2 / ndf 93.83 / 100
p0 4120 ± 2388
pull
Entries 101
Mean −195.3
Std Dev 0

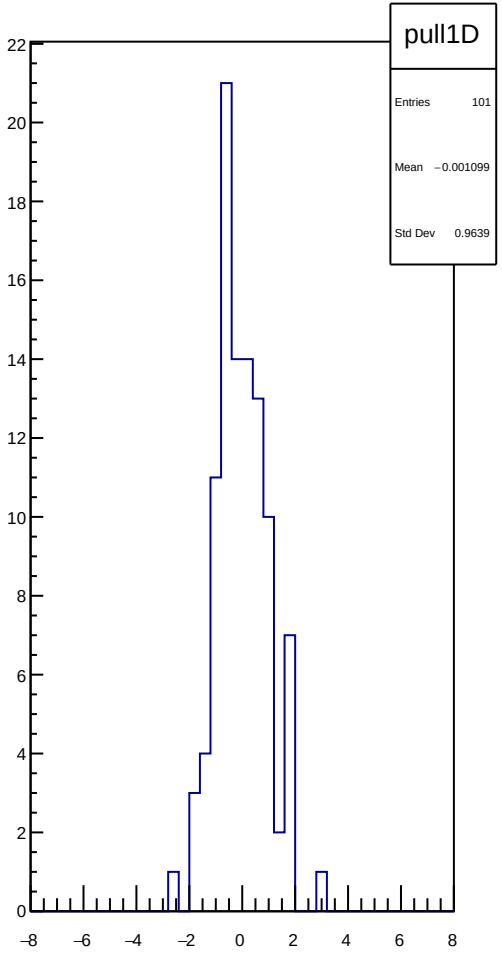

pull1D
Entries 101
Mean −0.001099
Std Dev 0.9639

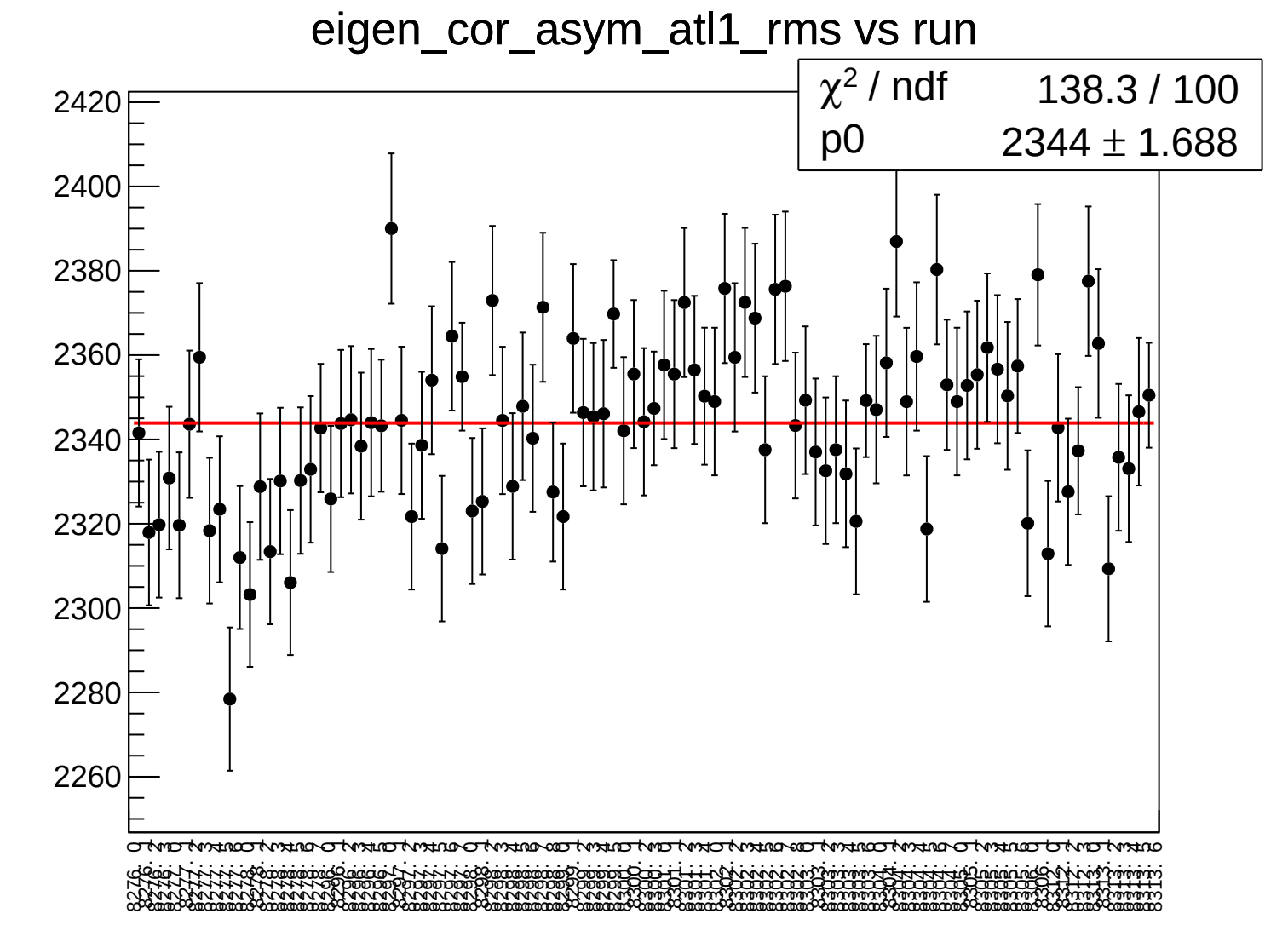

cor_asym_atl1_rms vs run
χ² / ndf 138.3 / 100
p0 2344 ± 1.688
2420
2400
2380
2360
2340
2320
2300
2280
2260

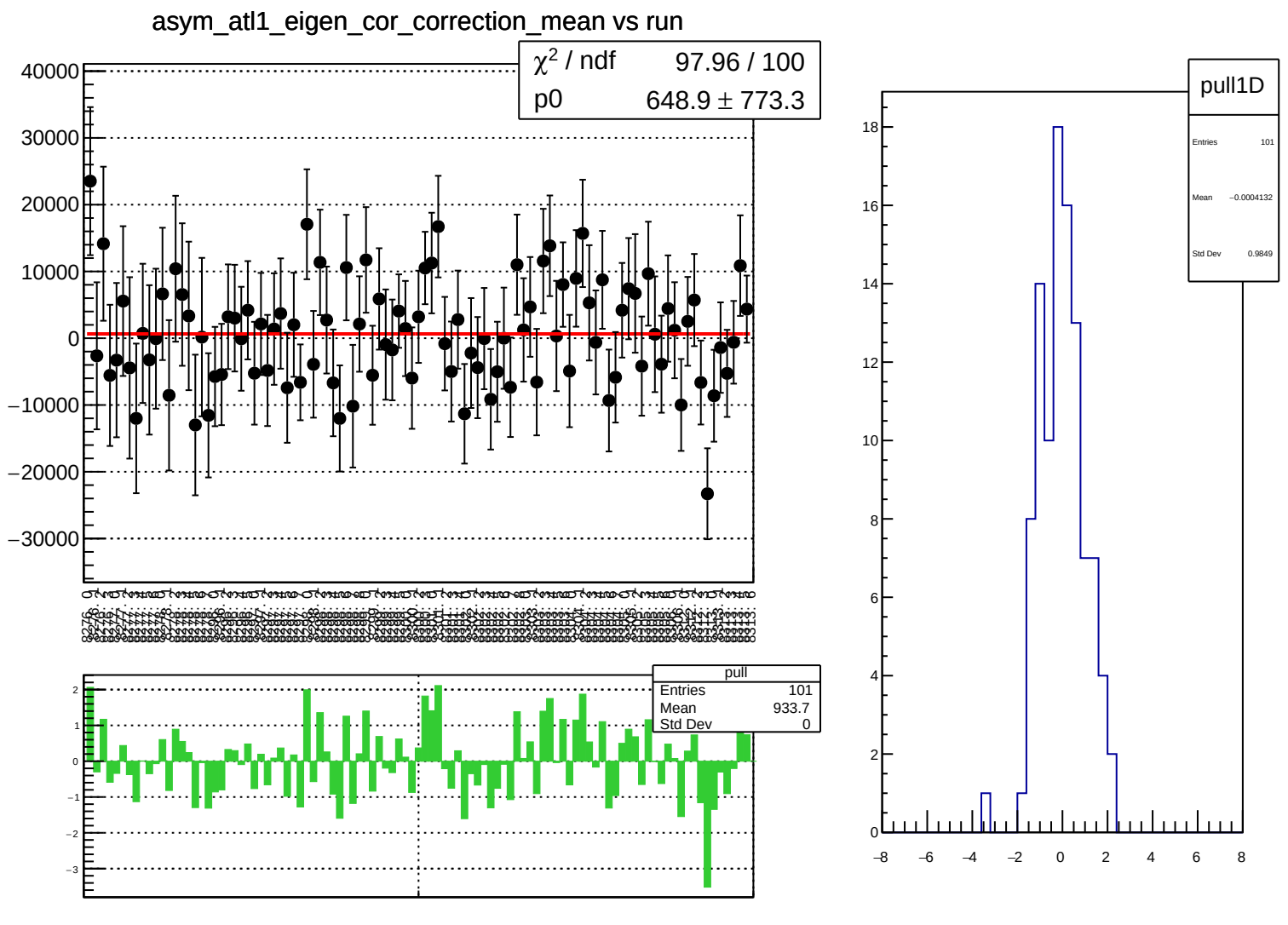

asym_atl1_cor_correction_mean vs run
χ² / ndf 97.96 / 100
p0 648.9 ± 773.3
pull
Entries 101
Mean 933.7
Std Dev 0
pull1D
Entries 101
Mean −0.0004132
Std Dev 0.9849

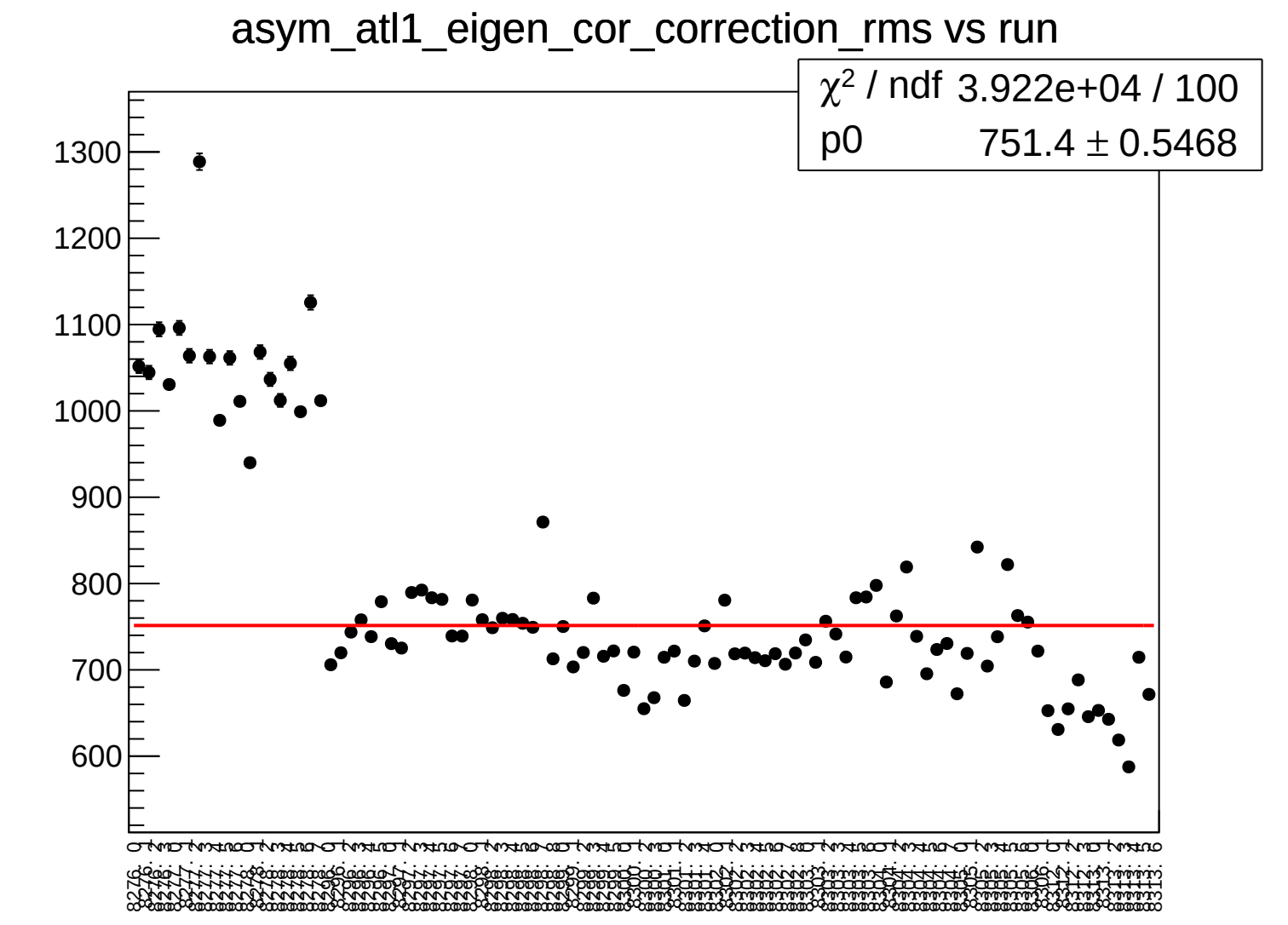

asym_atl1_cor_correction_rms vs run
χ² / ndf 3.922e+04 / 100
p0 751.4 ± 0.5468
1300
1200
1100
1000
900
800
700
600

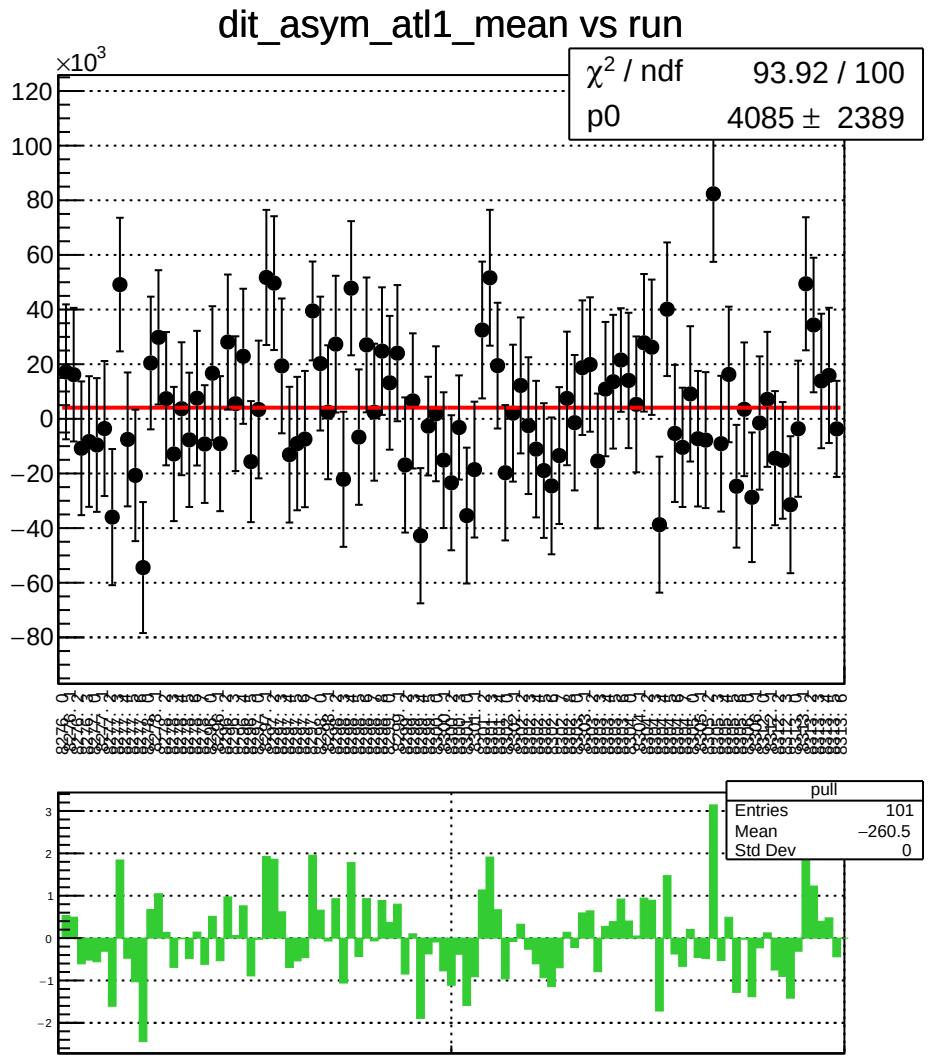

eigen_cor_asym_atl1_mean vs run
×10^3
χ^2 / ndf 93.83 / 100
p0 4120 ± 2388
pull
Entries 101
Mean −195.3
Std Dev 0

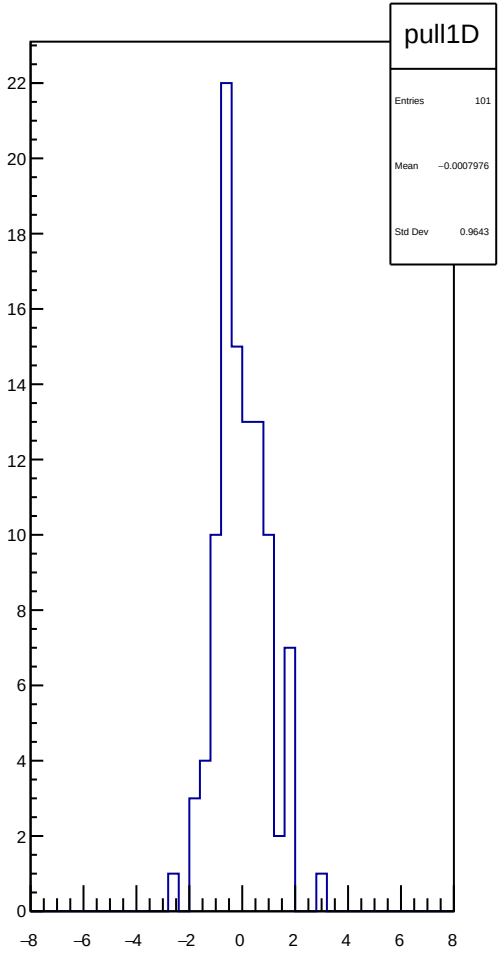

pull1D
Entries 101
Mean −0.001099
Std Dev 0.9639

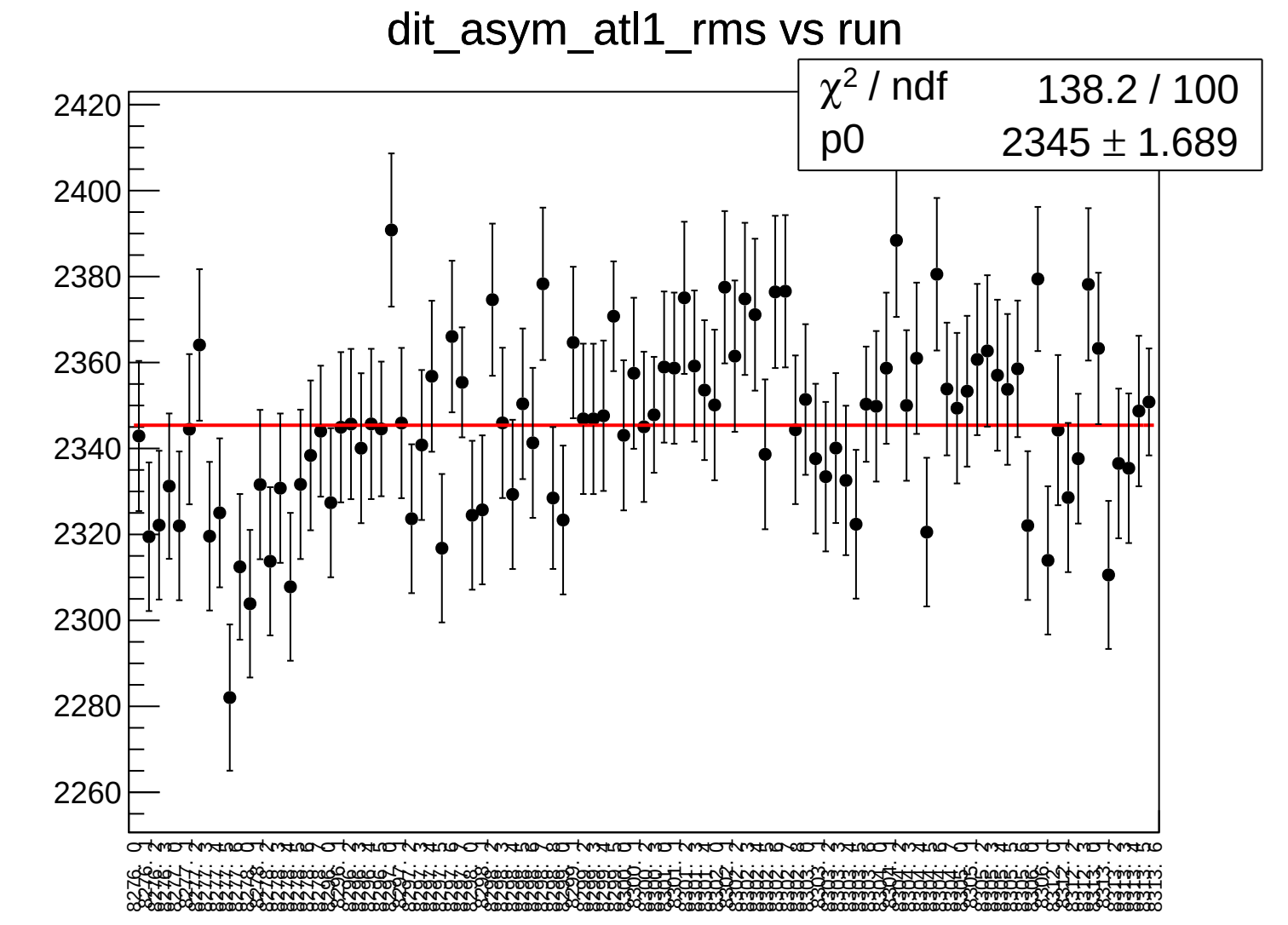

eigen_cor_asym_atl1_rms vs run
χ² / ndf 138.3 / 100
p0 2344 ± 1.688
2420
2400
2380
2360
2340
2320
2300
2280
2260

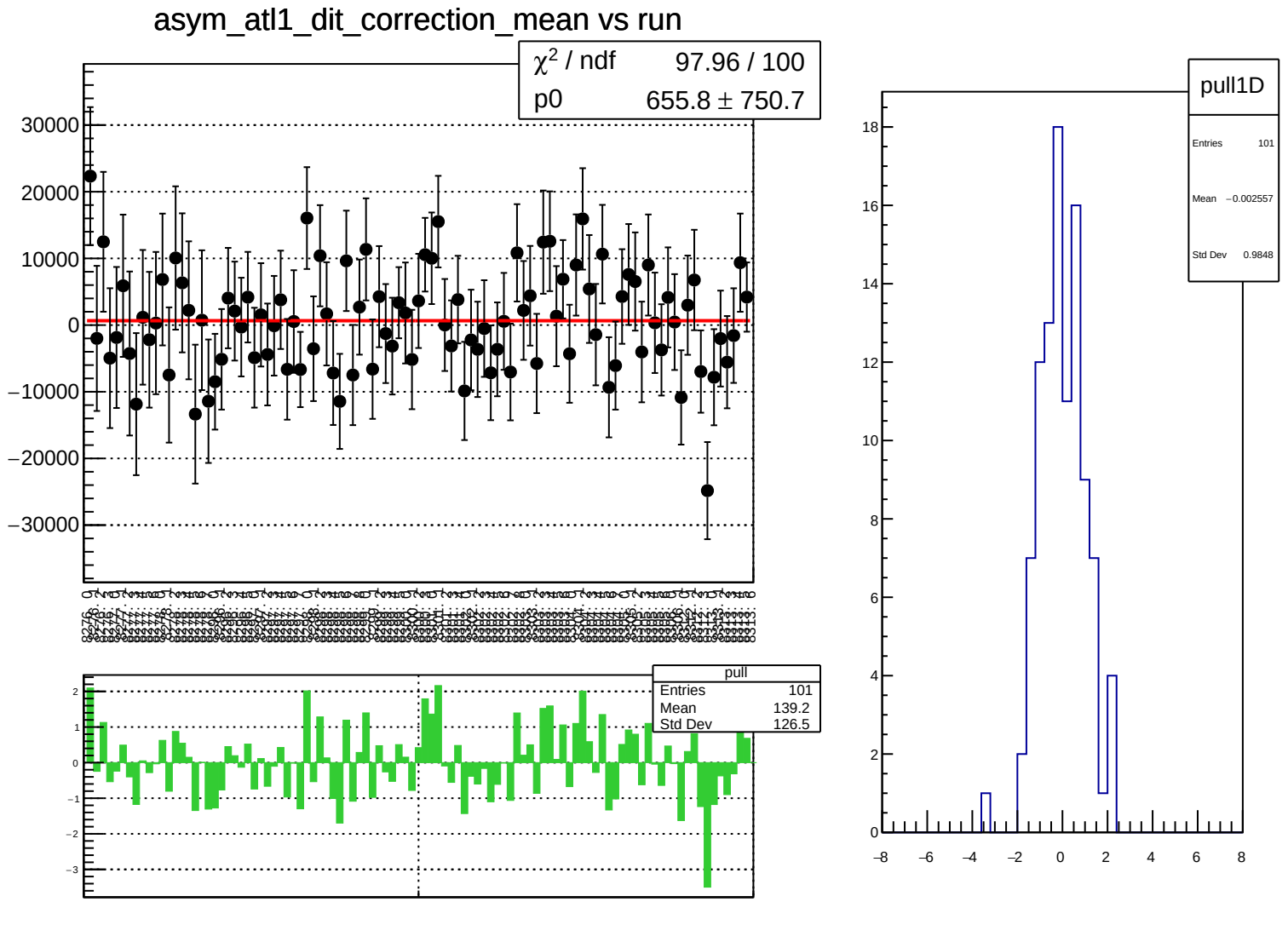

asym_atl1_eigen_cor_correction_mean vs run
χ^2 / ndf 97.96 / 100
p0 648.9 ± 773.3
pull
Entries 101
Mean 933.7
Std Dev 0
pull1D
Entries 101
Mean −0.0004132
Std Dev 0.9849

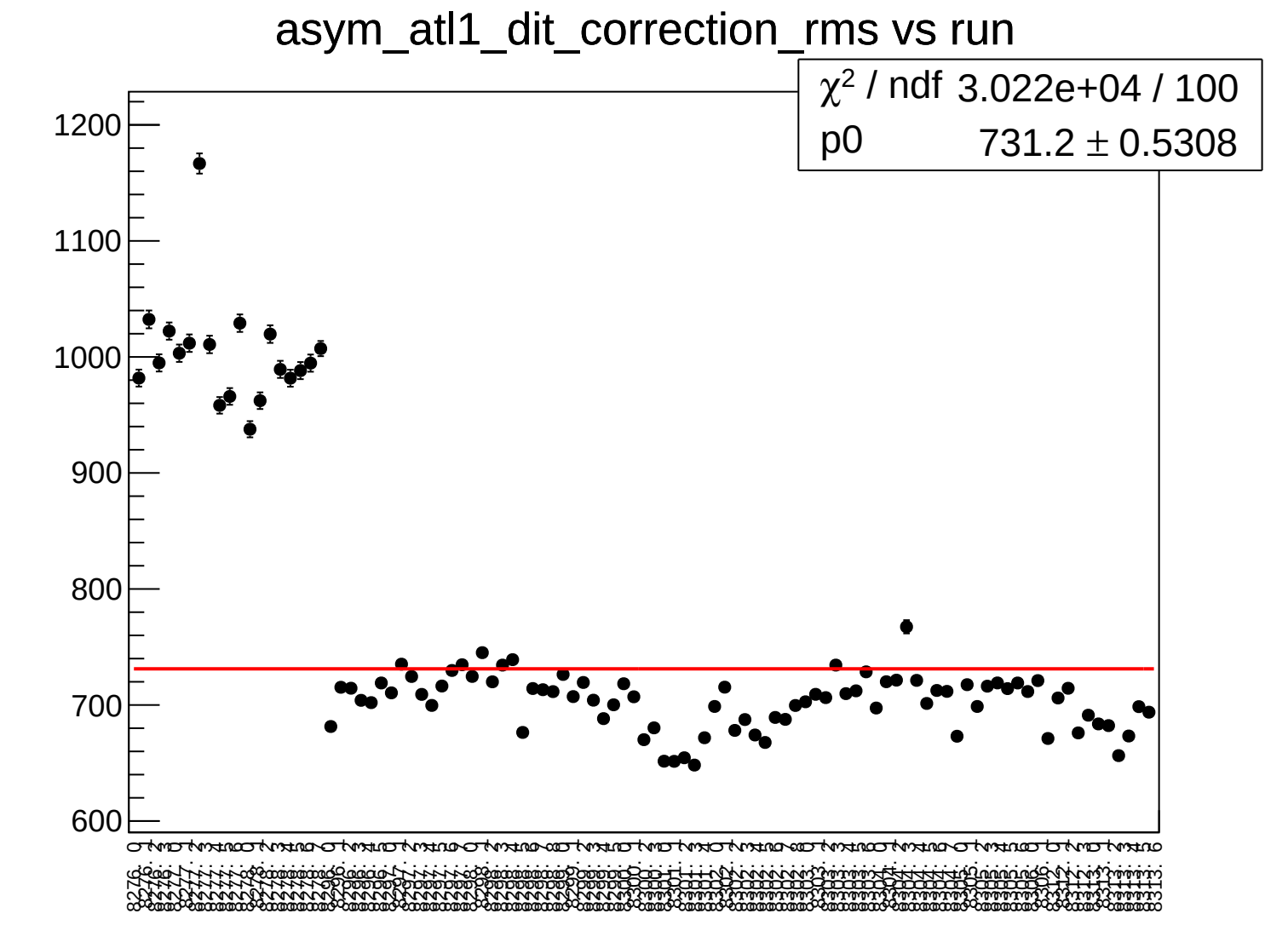

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 3.922e+04 / 100
p0 751.4 ± 0.5468
1300
1200
1100
1000
900
800
700
600

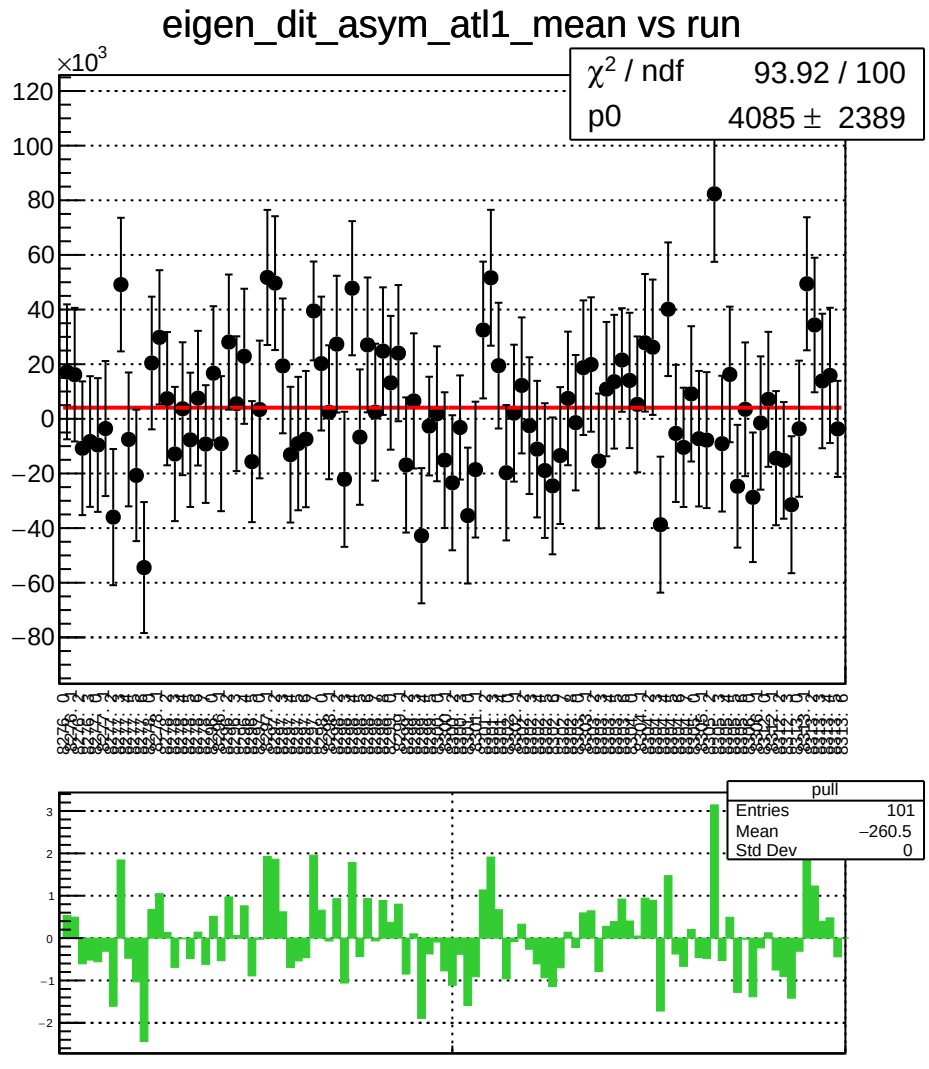

dit_asym_atl1_mean vs run
×10^3
χ^2 / ndf 93.92 / 100
p0 4085 ± 2389
pull
Entries 101
Mean −260.5
Std Dev 0

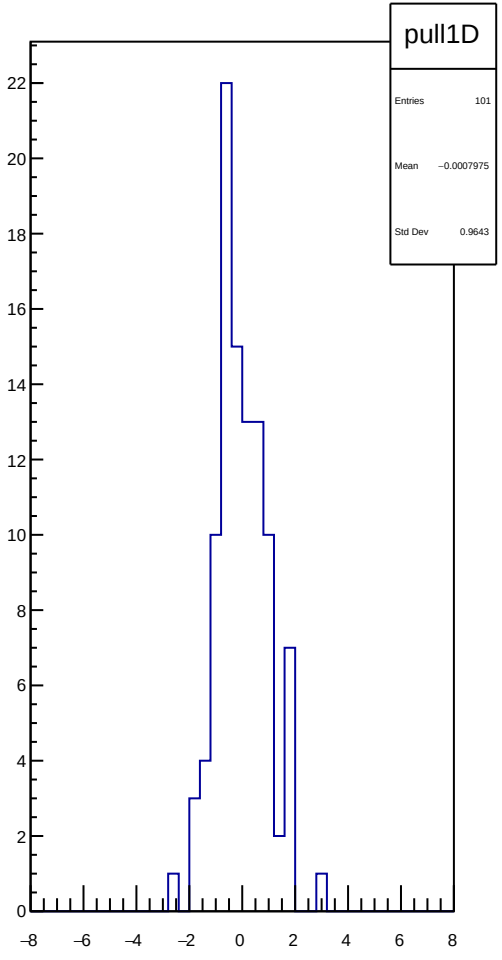

pull1D
Entries 101
Mean −0.0007976
Std Dev 0.9643

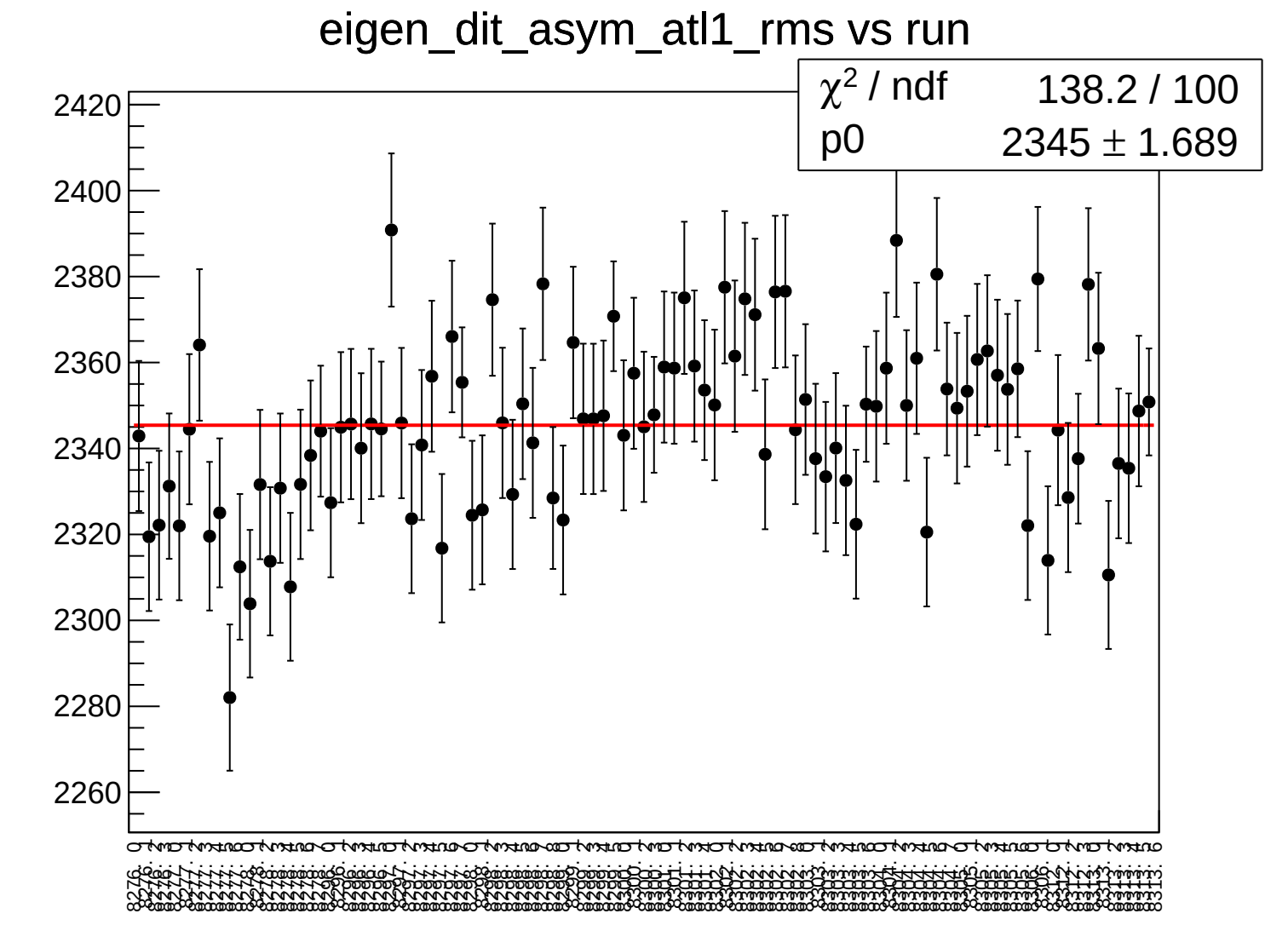

dit_asym_atl1_rms vs run
χ² / ndf 138.2 / 100
p0 2345 ± 1.689
2420
2400
2380
2360
2340
2320
2300
2280
2260

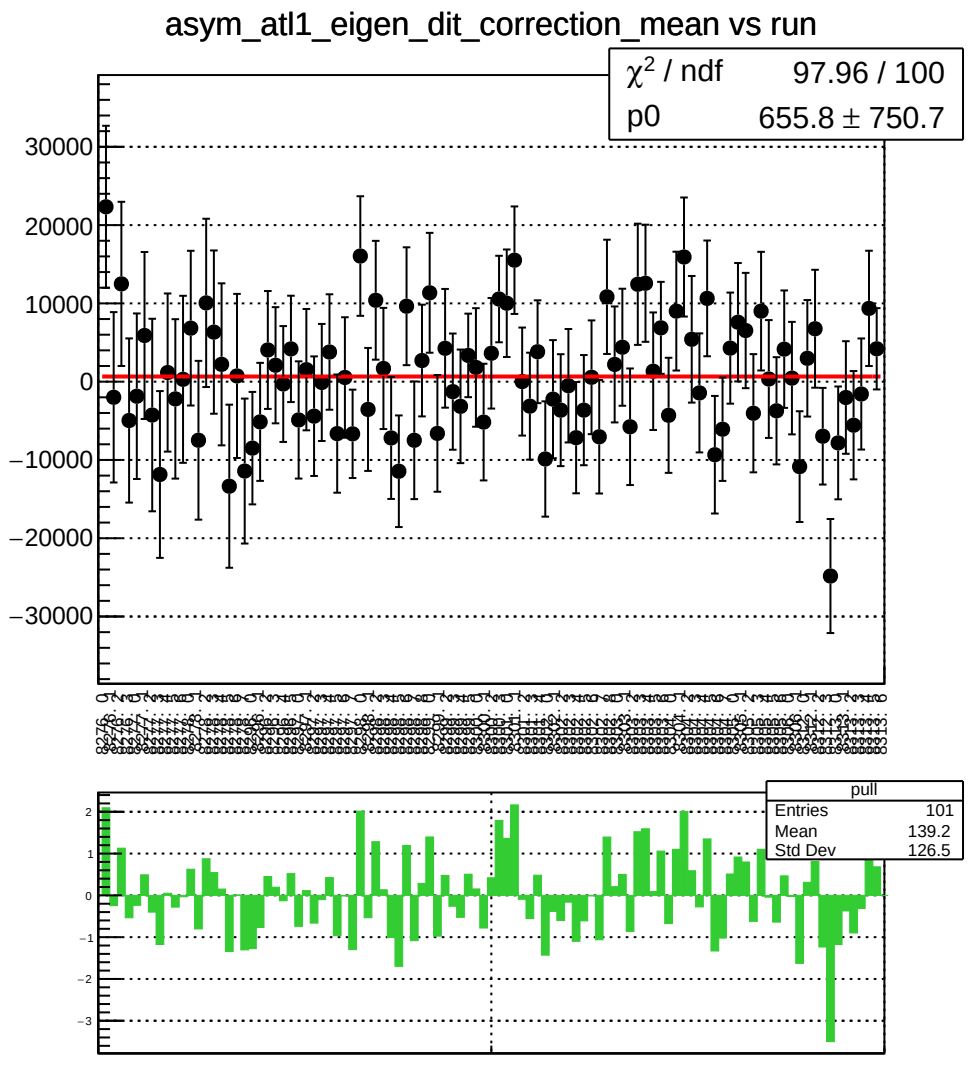

asym_atl1_dit_correction_mean vs run
χ² / ndf 97.96 / 100
p0 655.8 ± 750.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 101
Mean 139.2
Std Dev 126.5
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean −0.002557
Std Dev 0.9848
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

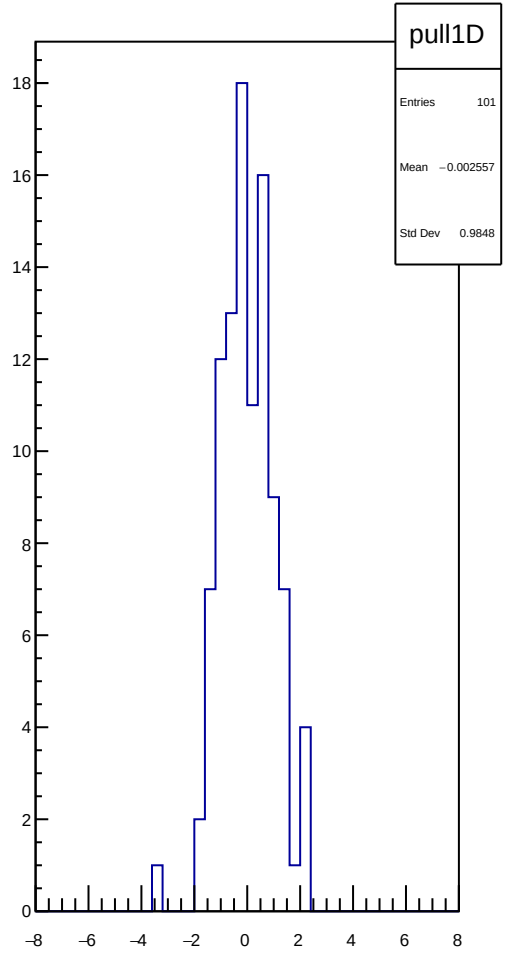

asym_atl1_dit_correction_rms vs run
χ² / ndf 3.022e+04 / 100
p0 731.2 ± 0.5308
1200
1100
1000
900
800
700
600

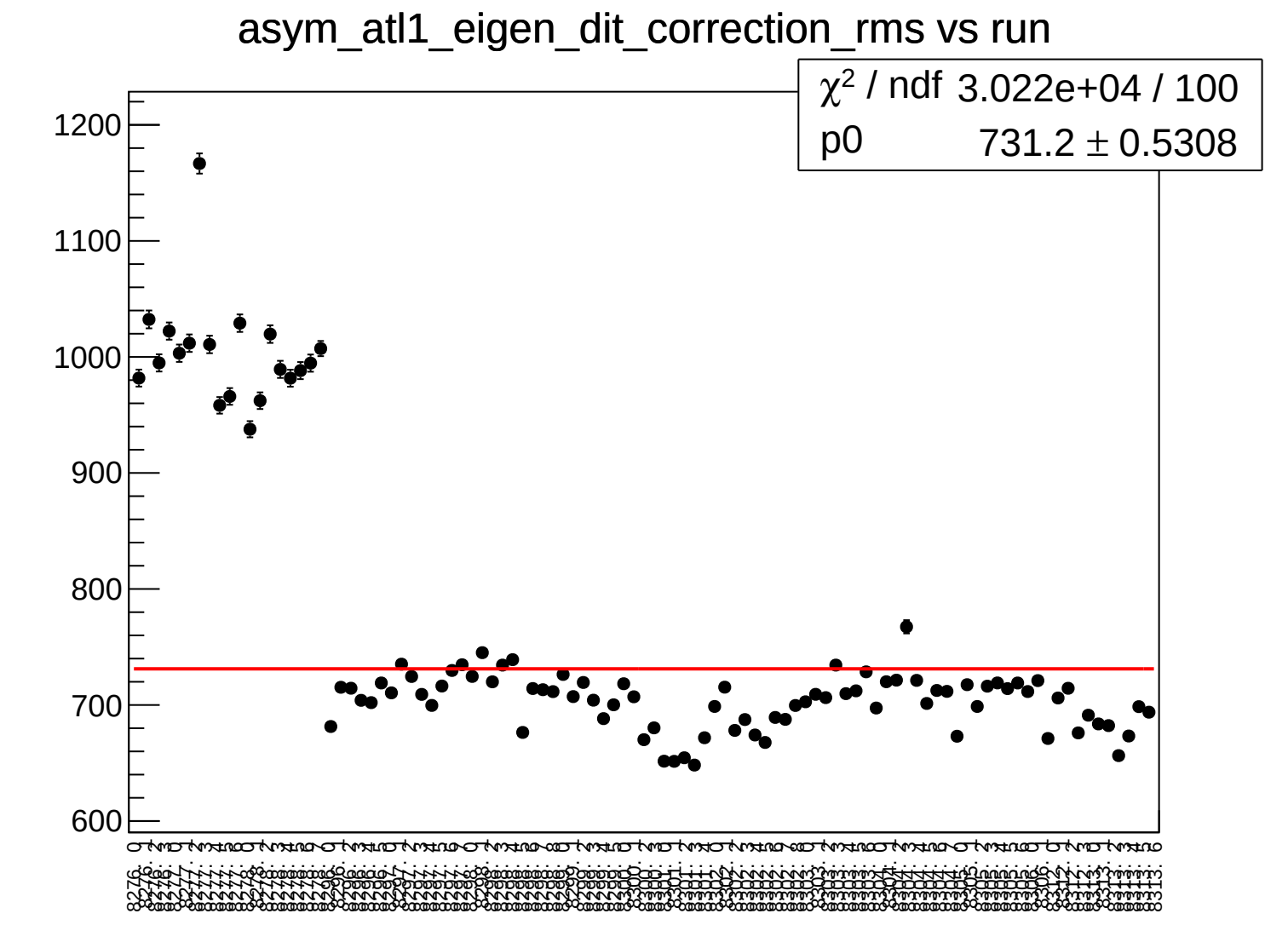

eigen_dit_asym_atl1_mean vs run
×10^3
χ^2 / ndf 93.92 / 100
p0 4085 ± 2389
pull
Entries 101
Mean −260.5
Std Dev 0

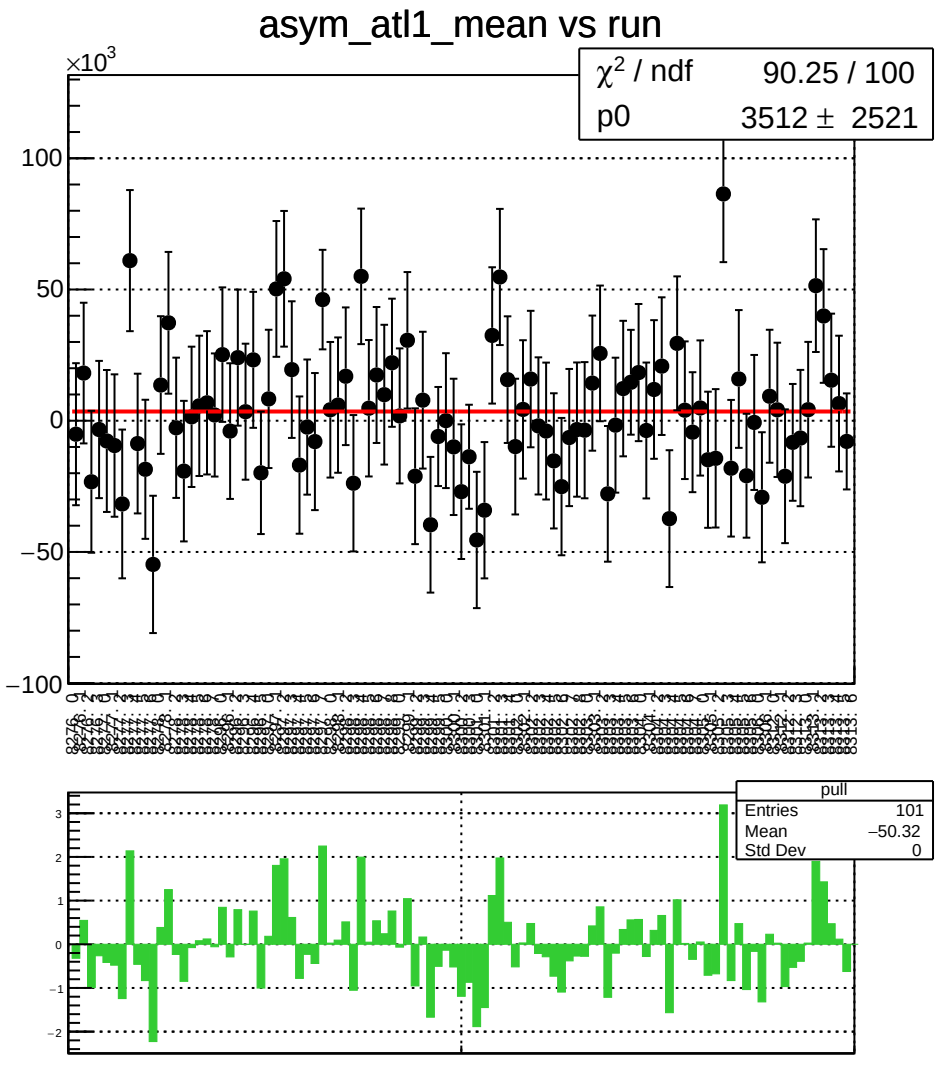

pull1D
Entries 101
Mean −0.0007975
Std Dev 0.9643

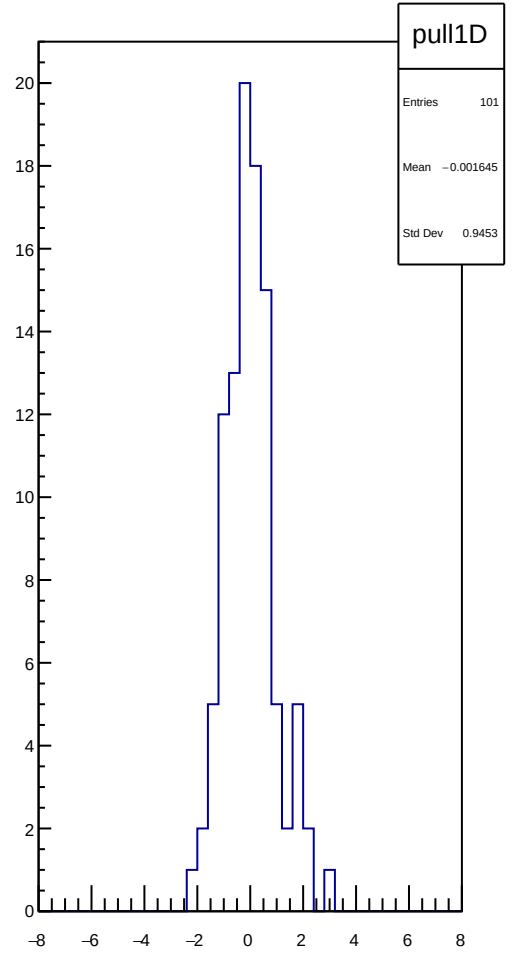

eigen_dit_asym_atl1_rms vs run
χ² / ndf 138.2 / 100
p0 2345 ± 1.689
2420
2400
2380
2360
2340
2320
2300
2280
2260

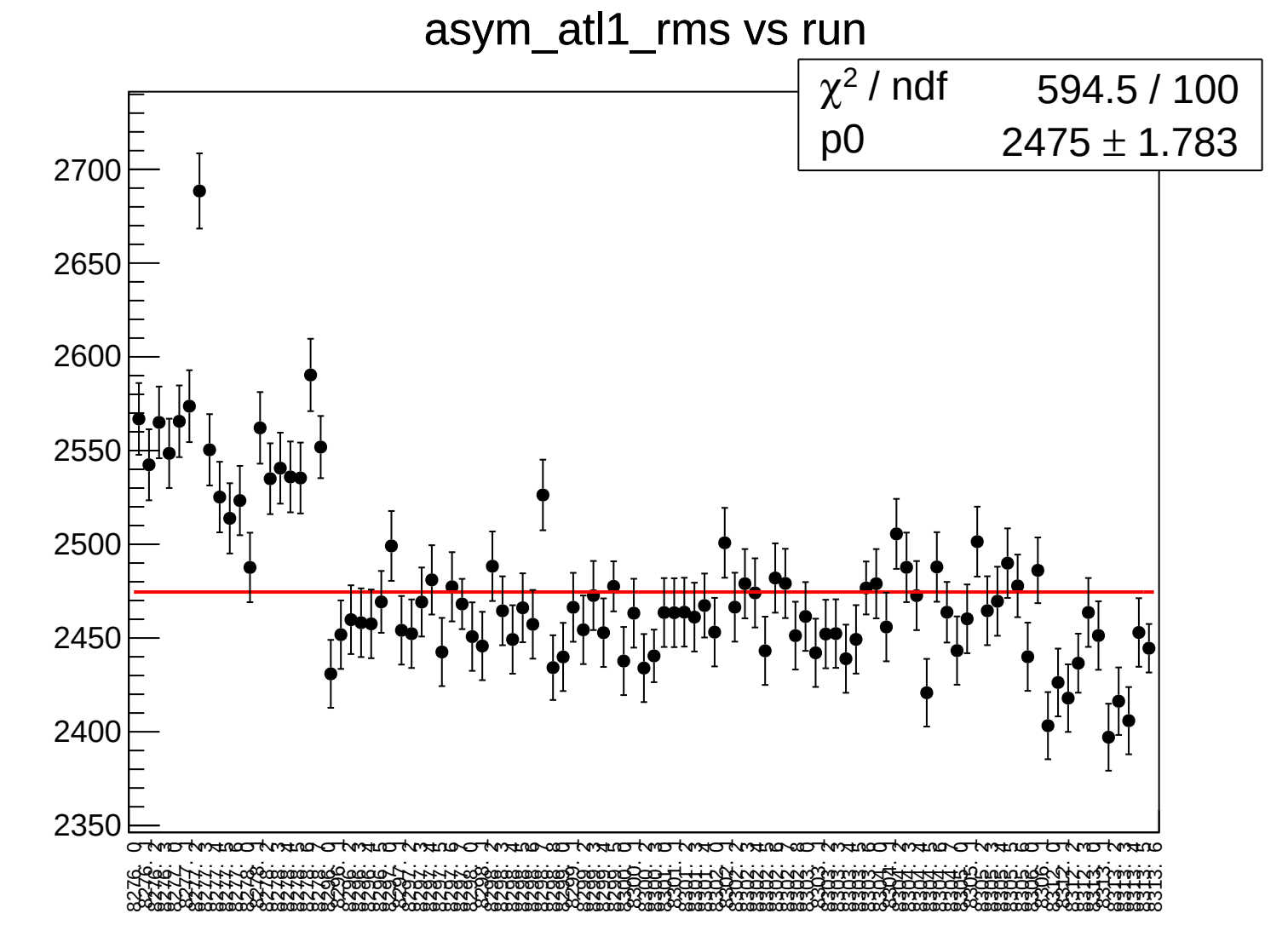

asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 97.96 / 100
p0 655.8 ± 750.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 101
Mean 139.2
Std Dev 126.5
2
1
0
−1
−2
−3

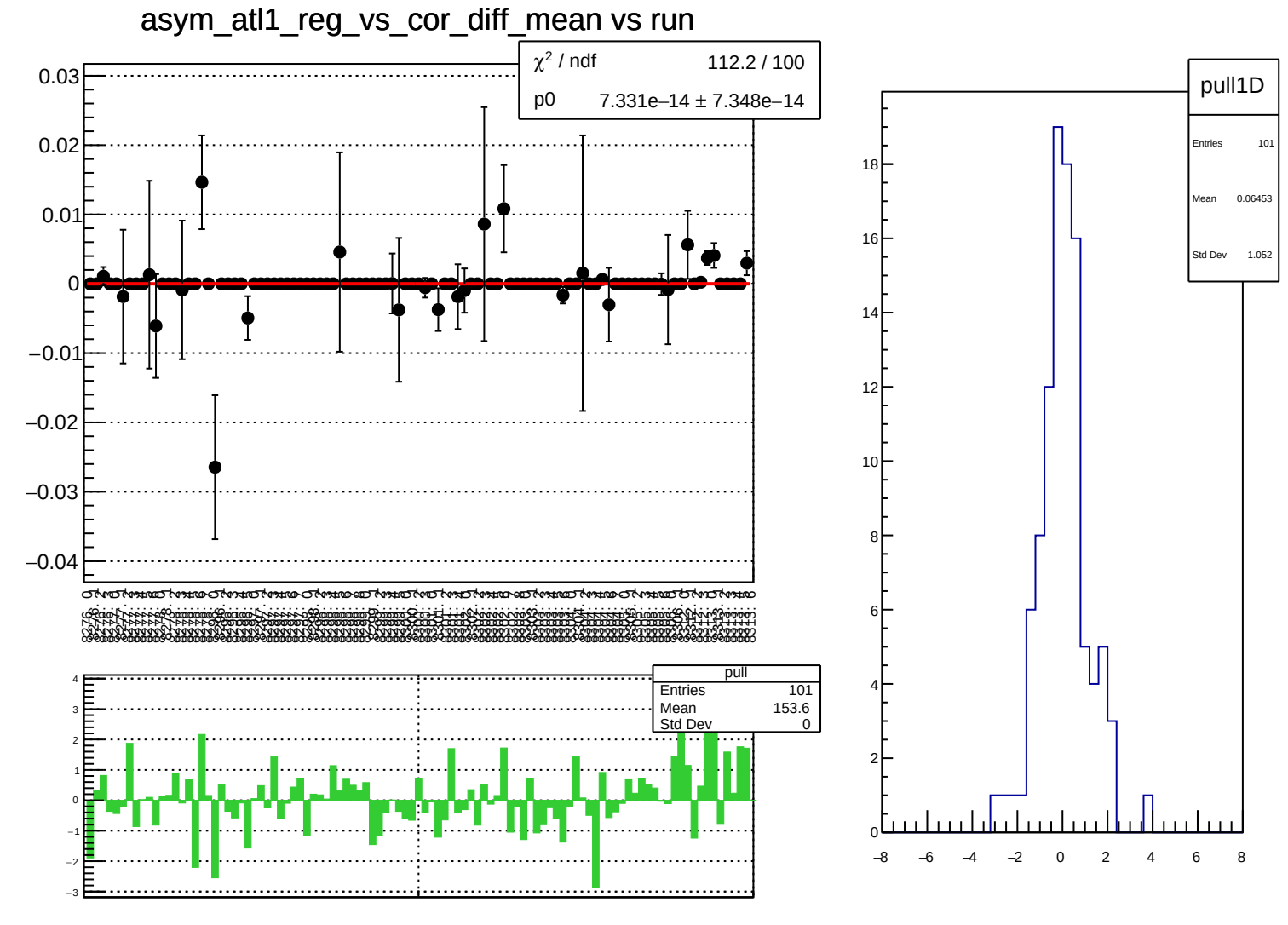

pull1D
Entries 101
Mean −0.002557
Std Dev 0.9848
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

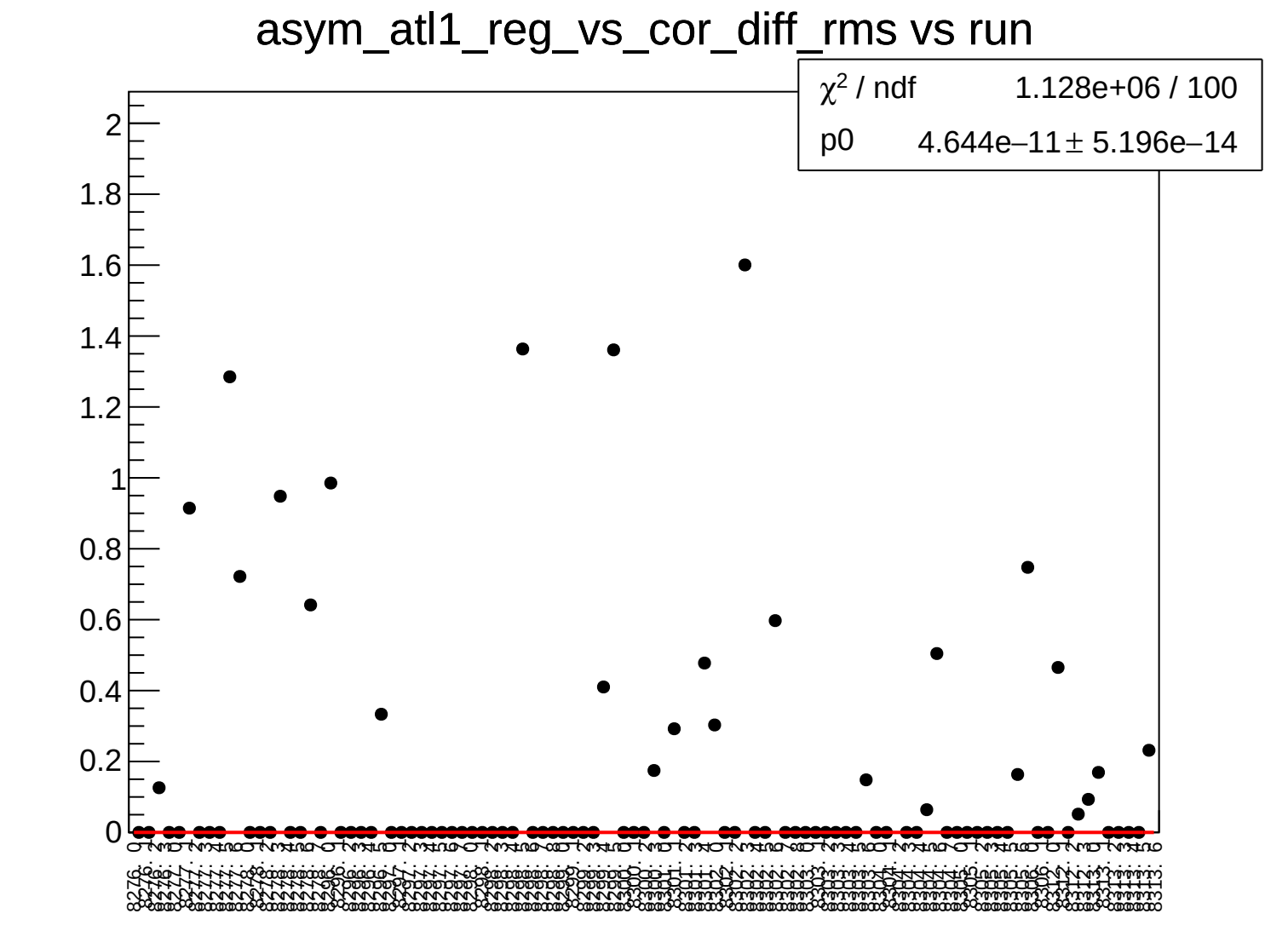

asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 3.022e+04 / 100
p0 731.2 ± 0.5308
1200
1100
1000
900
800
700
600

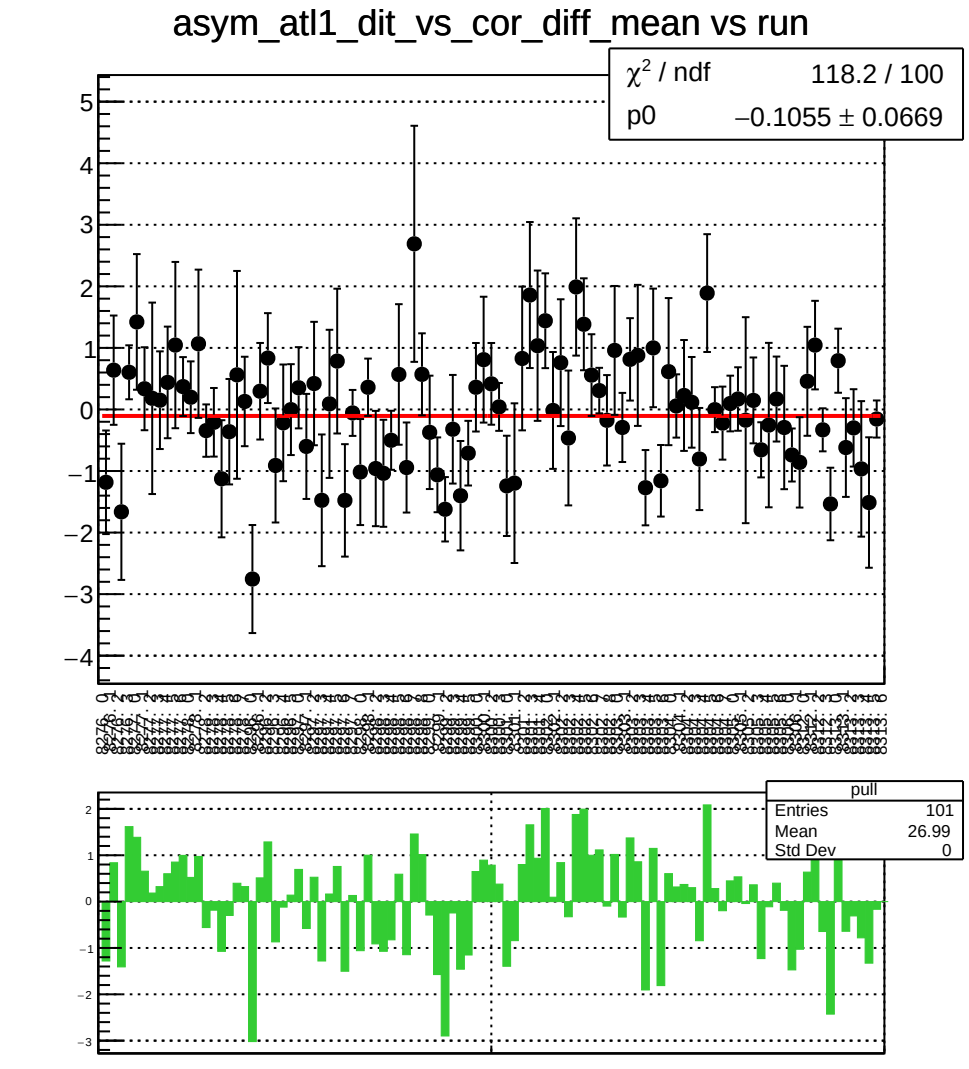

asym_atl1_mean vs run
×10^3
χ^2 / ndf 90.25 / 100
p0 3512 ± 2521
100
50
0
−50
−100
pull
Entries 101
Mean −50.32
Std Dev 0
3
2
1
0
−1
−2

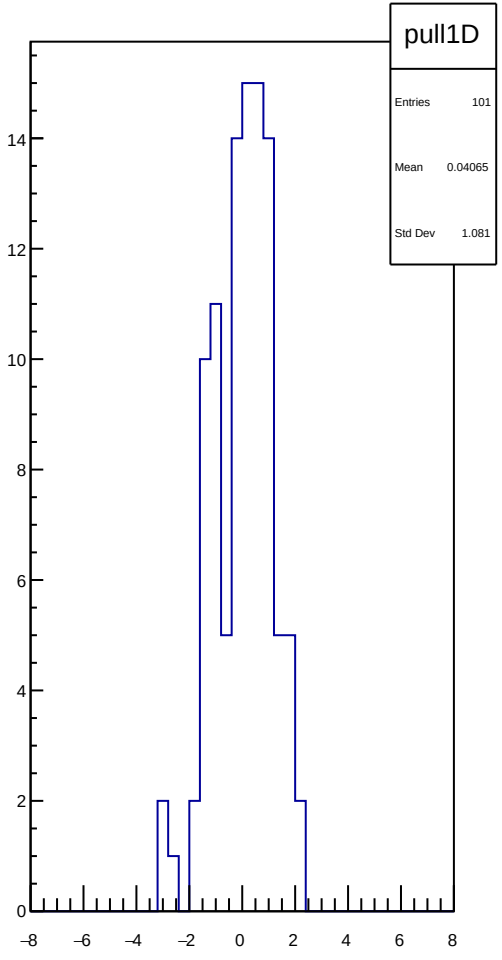

pull1D
Entries 101
Mean −0.001645
Std Dev 0.9453
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

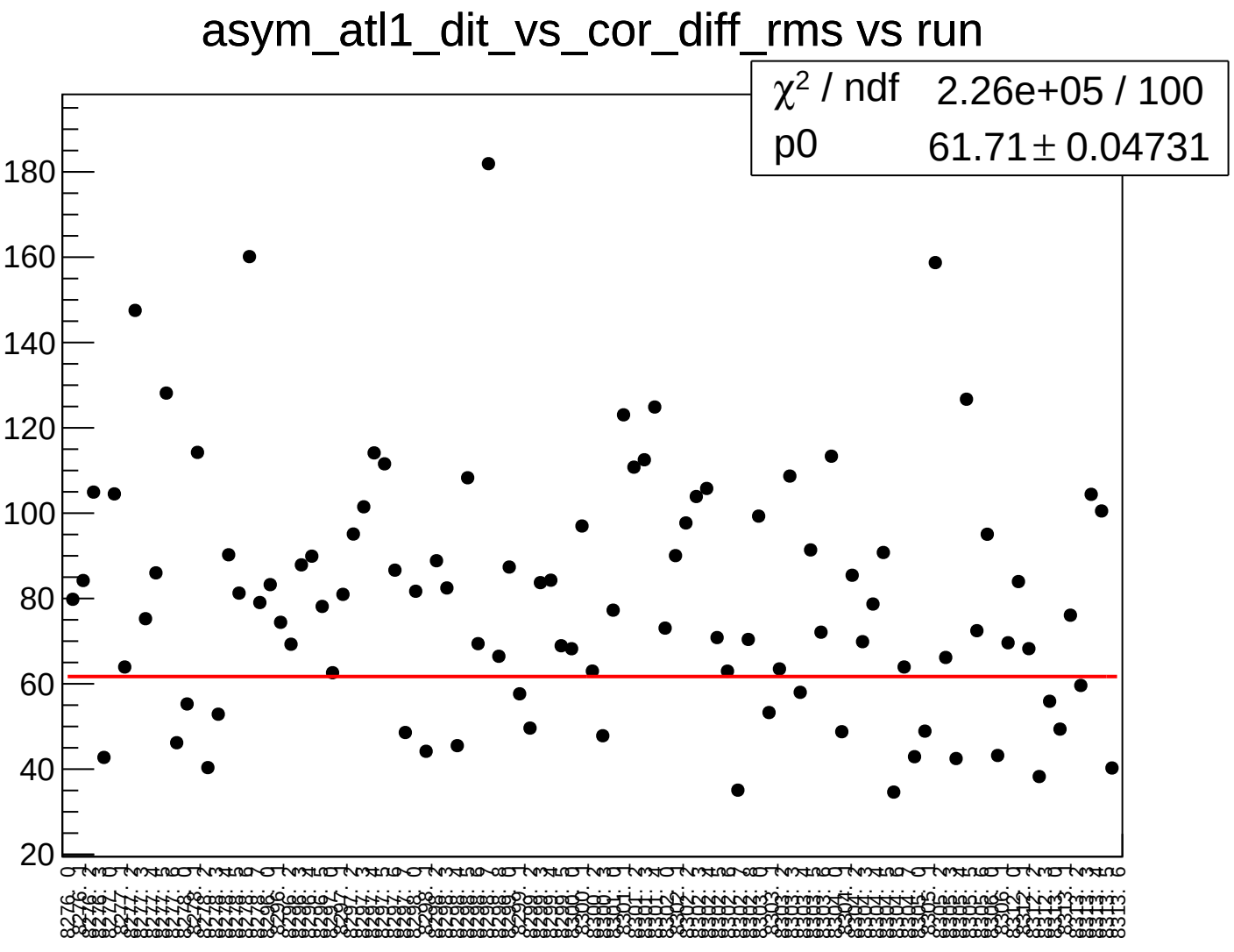

asym_atl1_rms vs run
χ^2 / ndf 594.5 / 100
p0 2475 ± 1.783
2700
2650
2600
2550
2500
2450
2400
2350

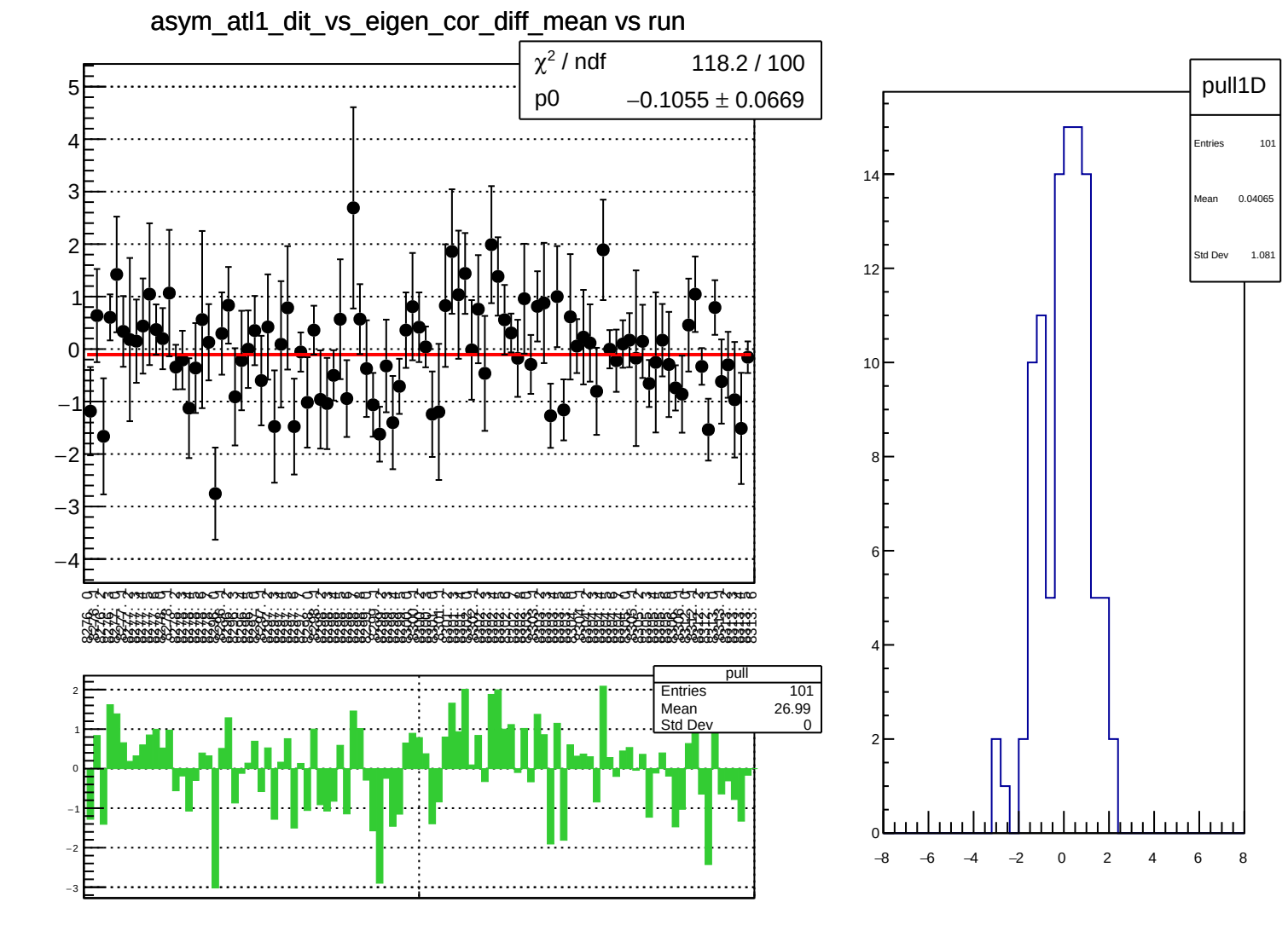

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 112.2 / 100
p0 7.331e−14 ± 7.348e−14
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 101
Mean 153.6
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.06453
Std Dev 1.052
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

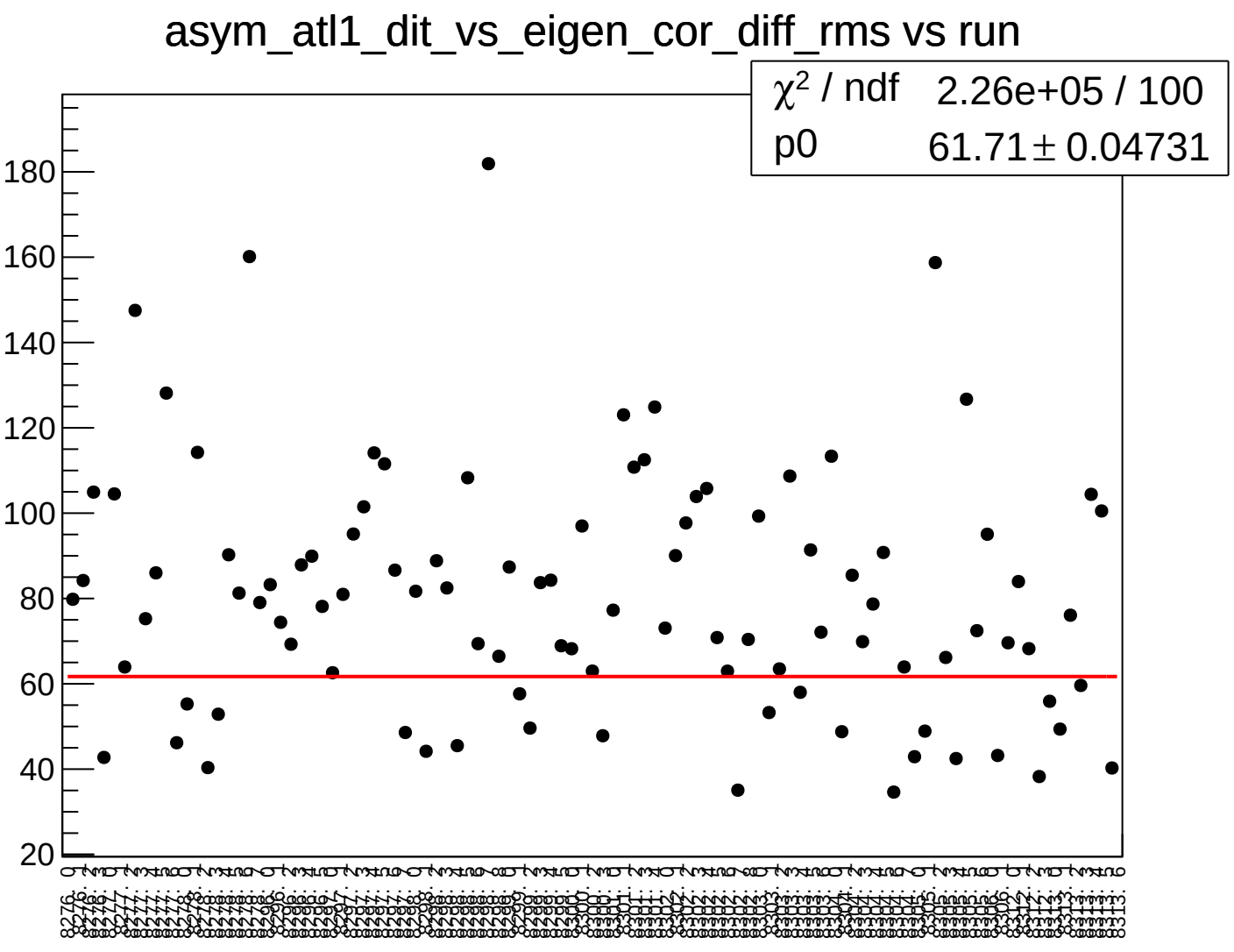

asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.128e+06 / 100
p0 4.644e−11 ± 5.196e−14
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

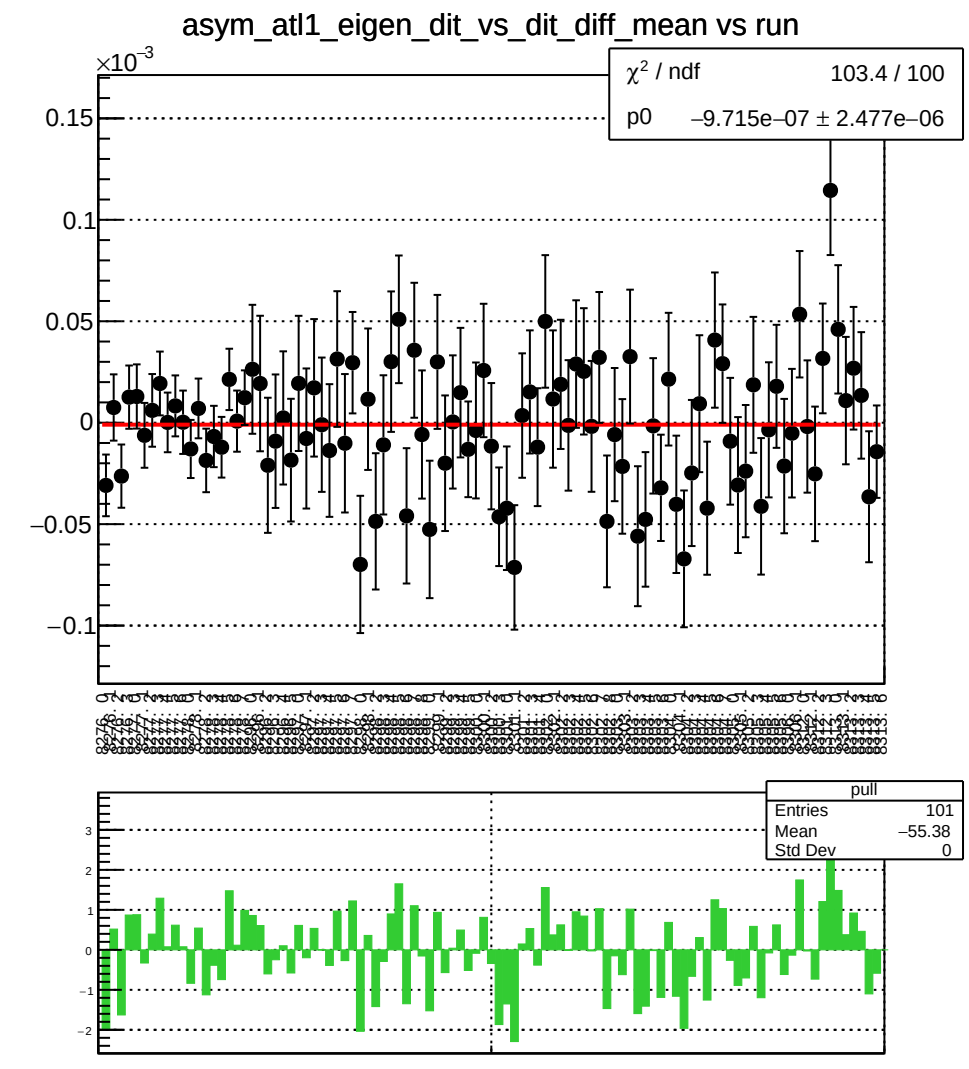

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 118.2 / 100
p0 −0.1055 ± 0.0669
pull
Entries 101
Mean 26.99
Std Dev 0

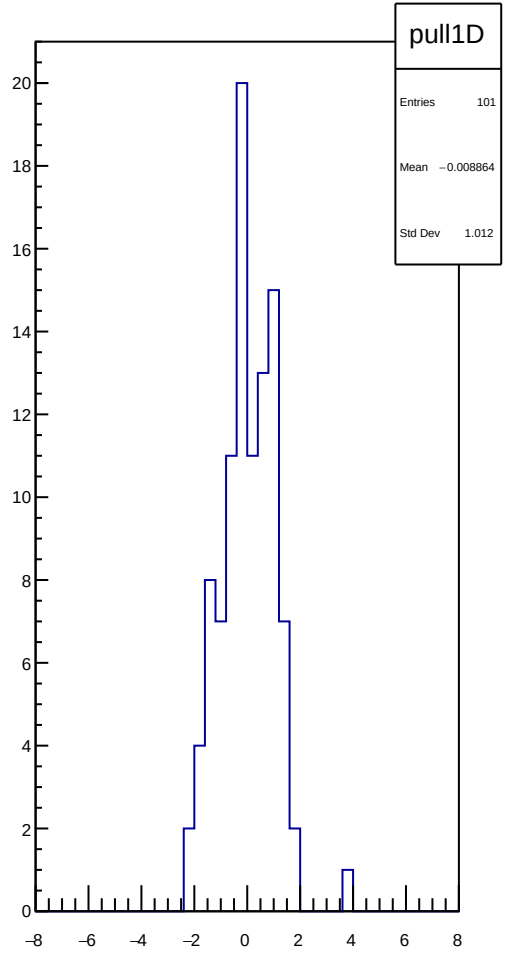

pull1D
Entries 101
Mean 0.04065
Std Dev 1.081

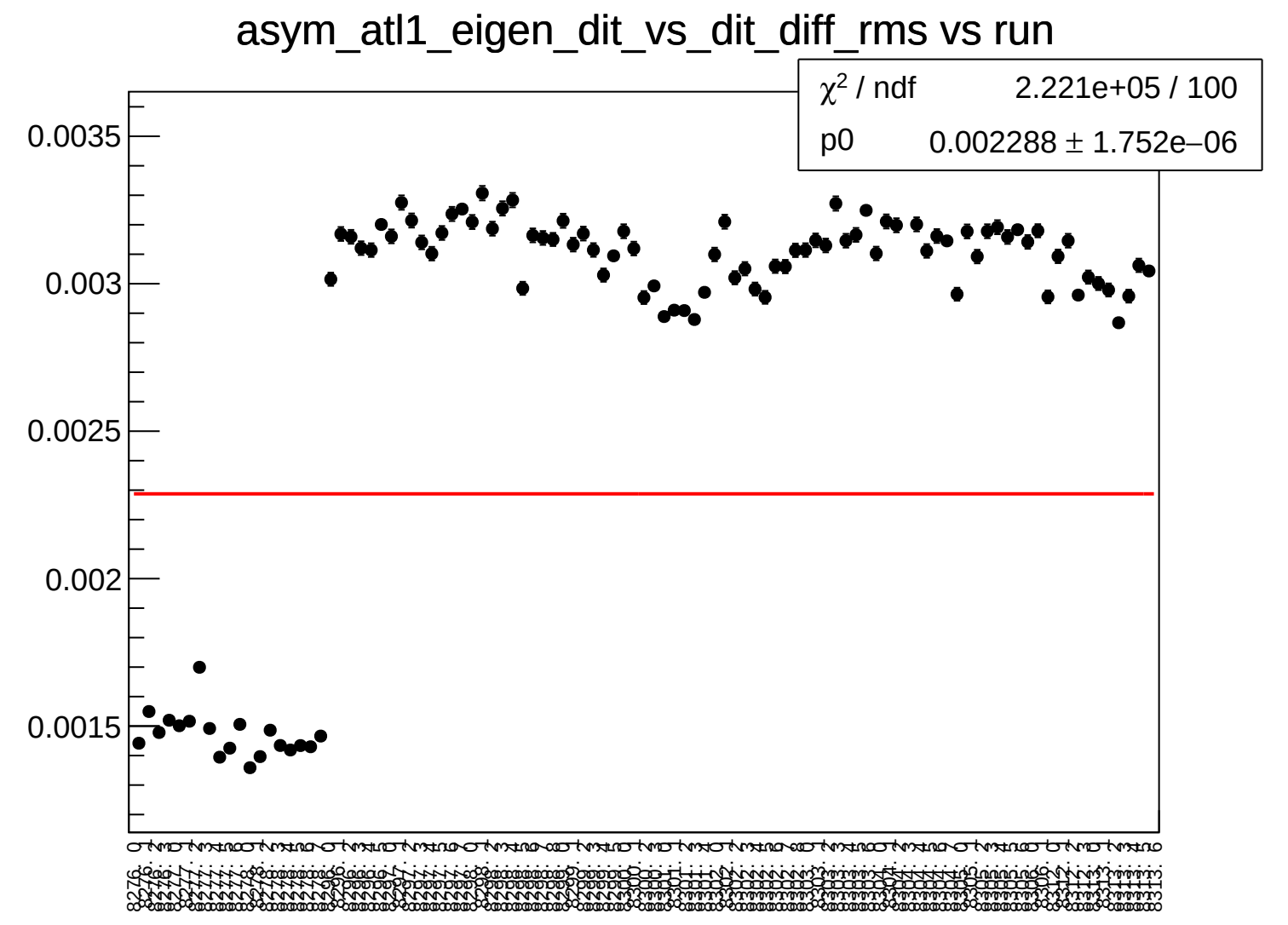

asym_atl1_dit_vs_cor_diff_rms vs run
χ² / ndf 2.26e+05 / 100
p0 61.71 ± 0.04731
180
160
140
120
100
80
60
40
20

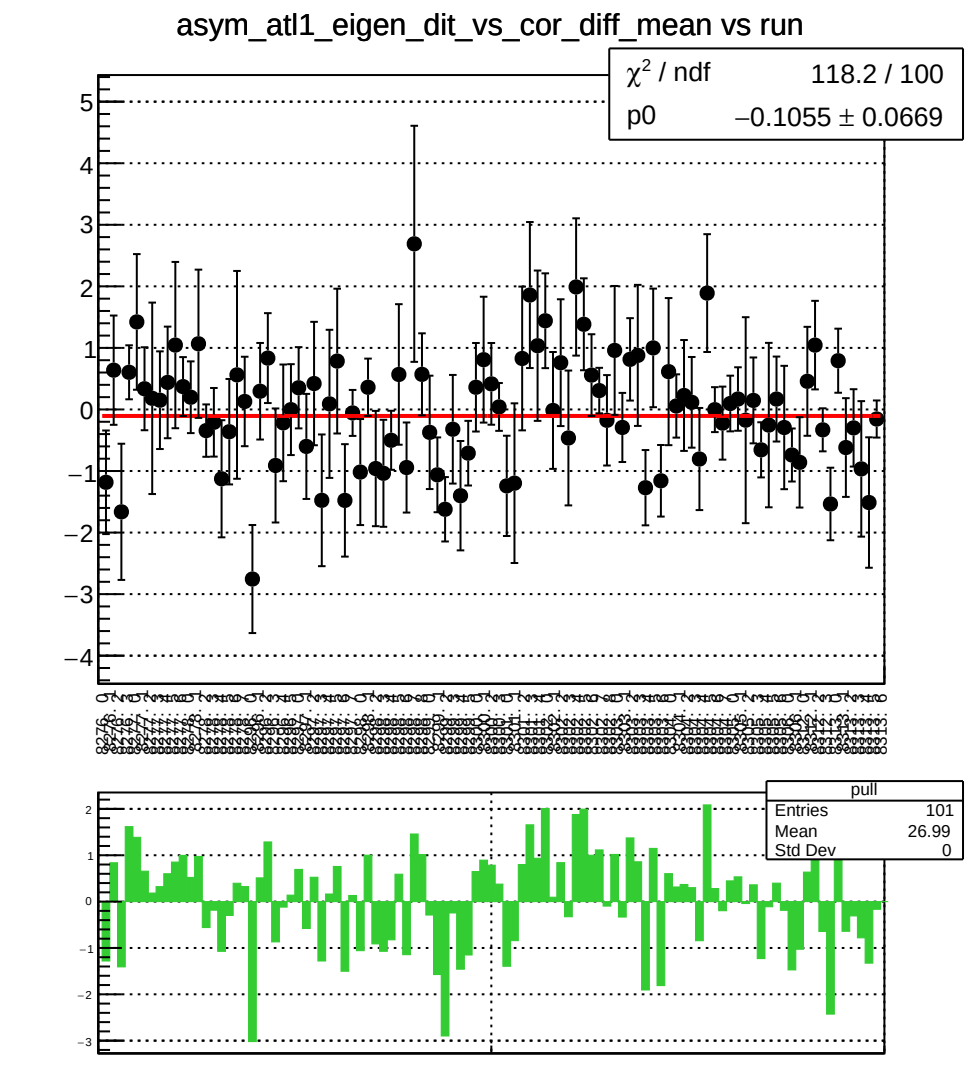

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 118.2 / 100
p0 −0.1055 ± 0.0669
pull
Entries 101
Mean 26.99
Std Dev 0
pull1D
Entries 101
Mean 0.04065
Std Dev 1.081

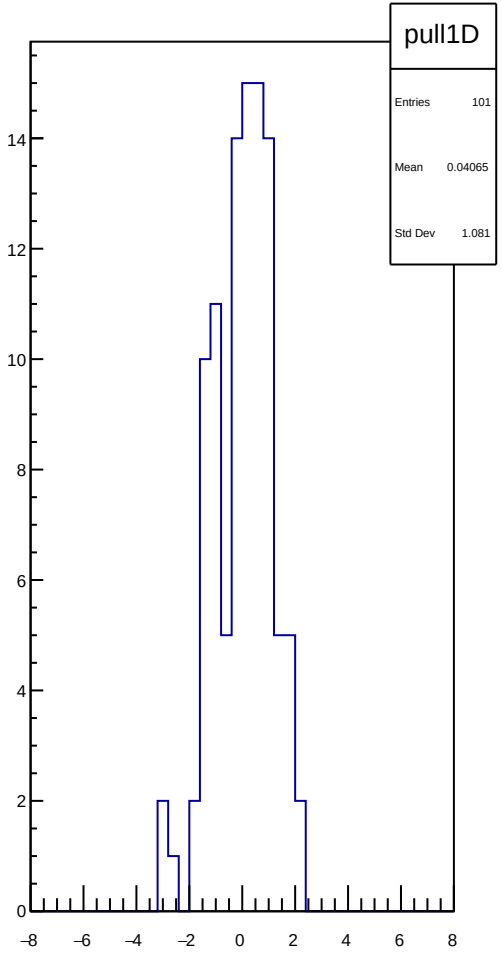

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.26e+05 / 100
p0 61.71 ± 0.04731
180
160
140
120
100
80
60
40
20

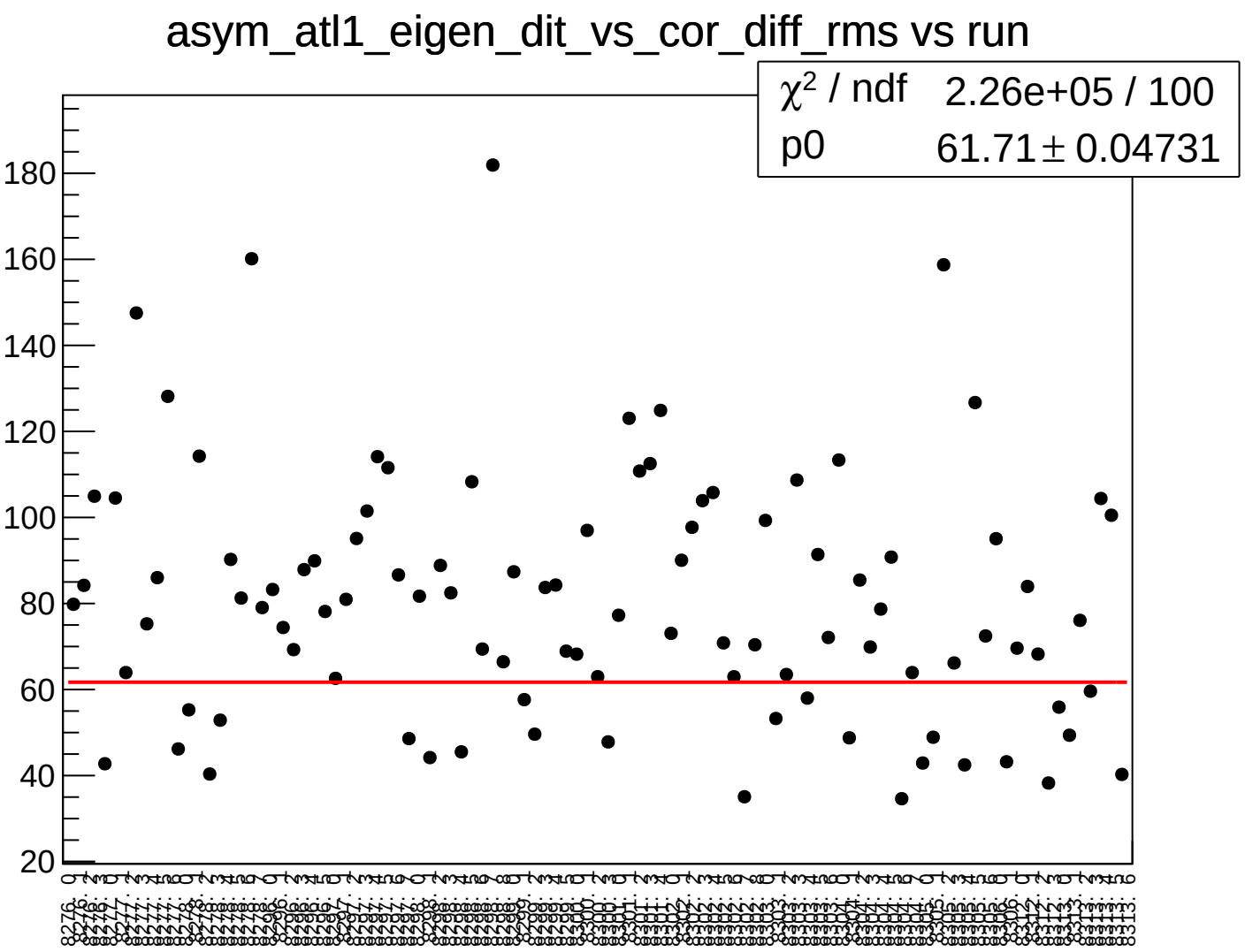

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103.4 / 100
p0 −9.715e−07 ± 2.477e−06
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 101
Mean −55.38
Std Dev 0
3
2
1
0
−1
−2

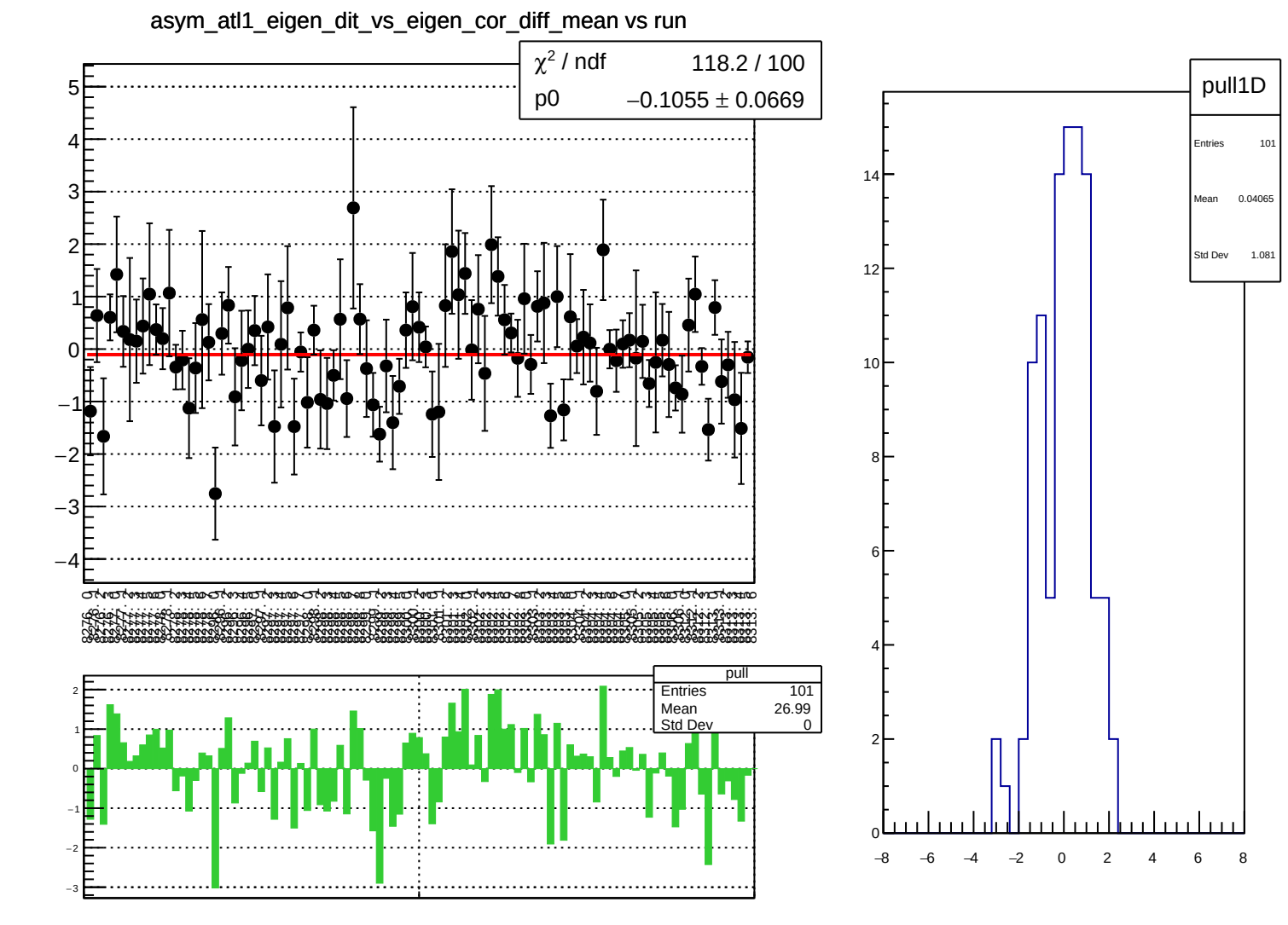

pull1D
Entries 101
Mean −0.008864
Std Dev 1.012
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

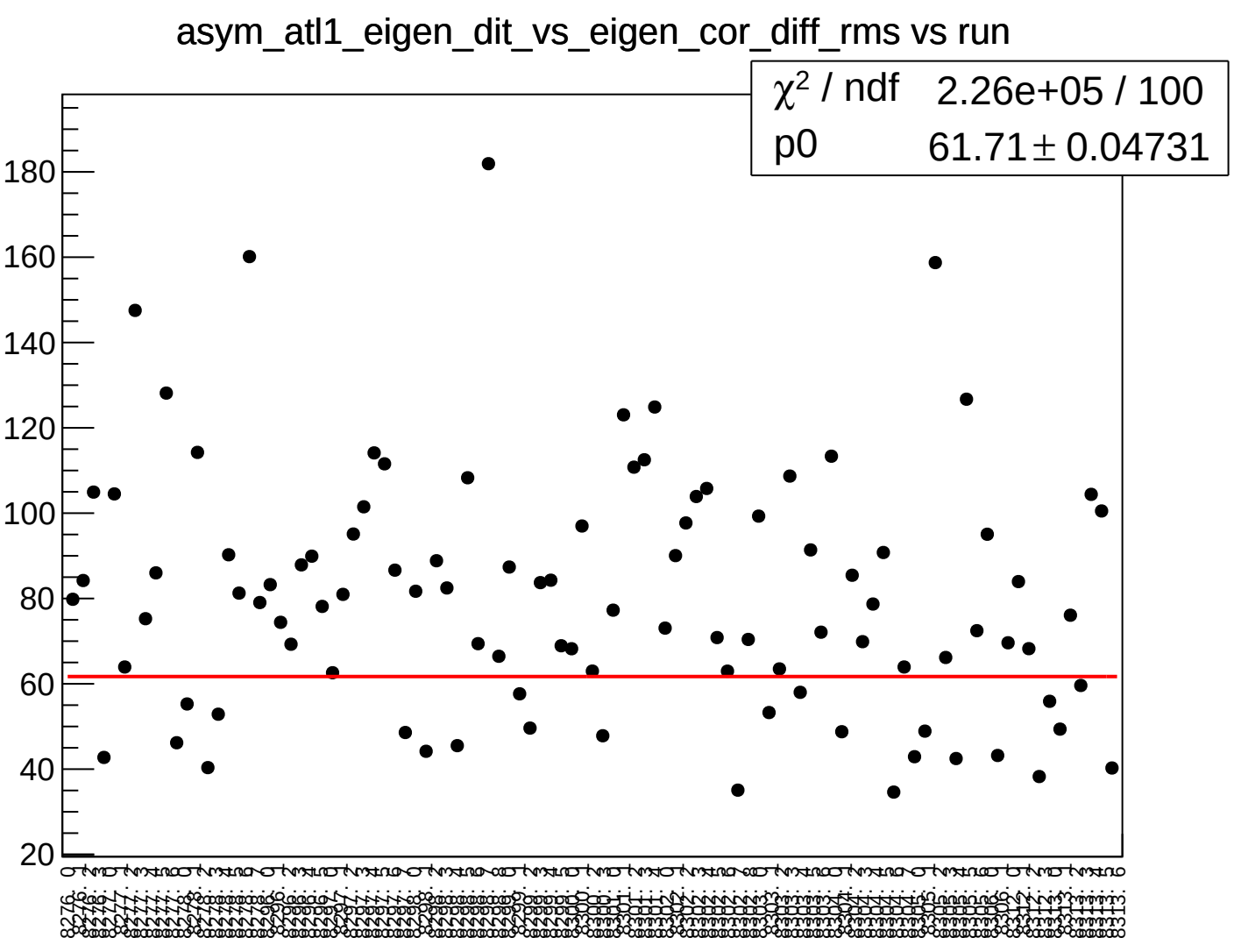

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.221e+05 / 100
p0 0.002288 ± 1.752e−06
0.0035
0.003
0.0025
0.002
0.0015

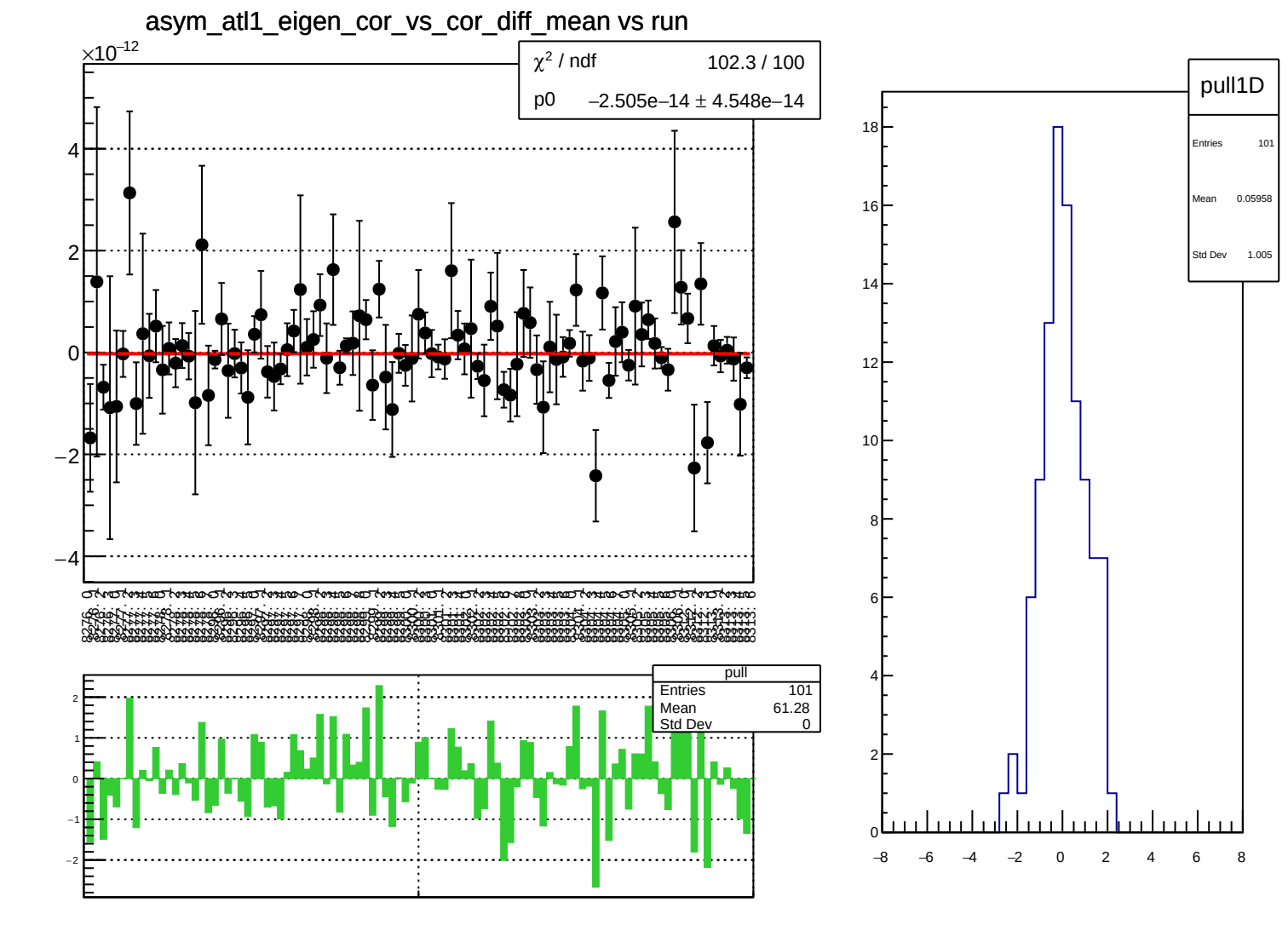

asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 118.2 / 100
p0 −0.1055 ± 0.0669
pull
Entries 101
Mean 26.99
Std Dev 0

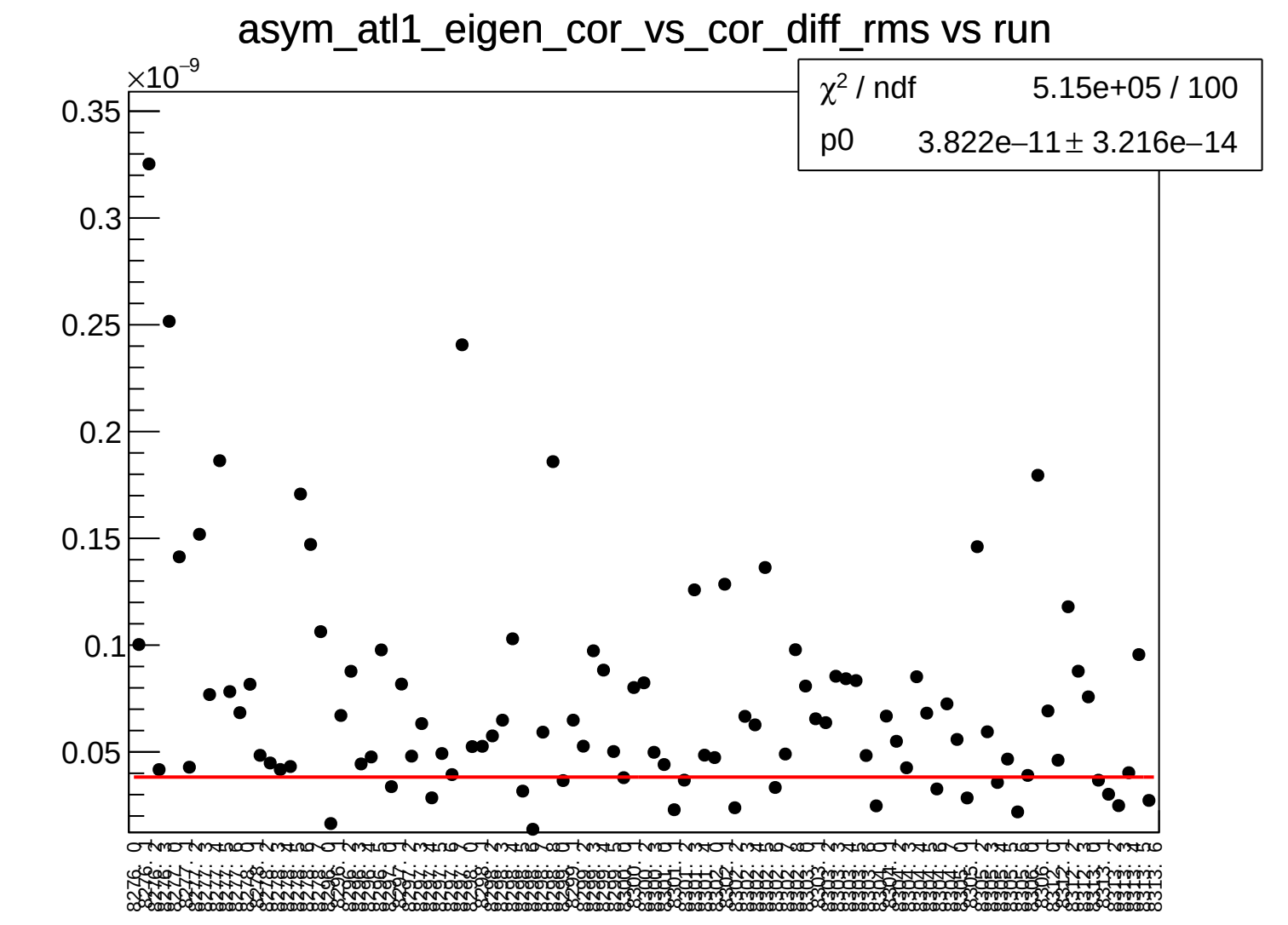

pull1D
Entries 101
Mean 0.04065
Std Dev 1.081

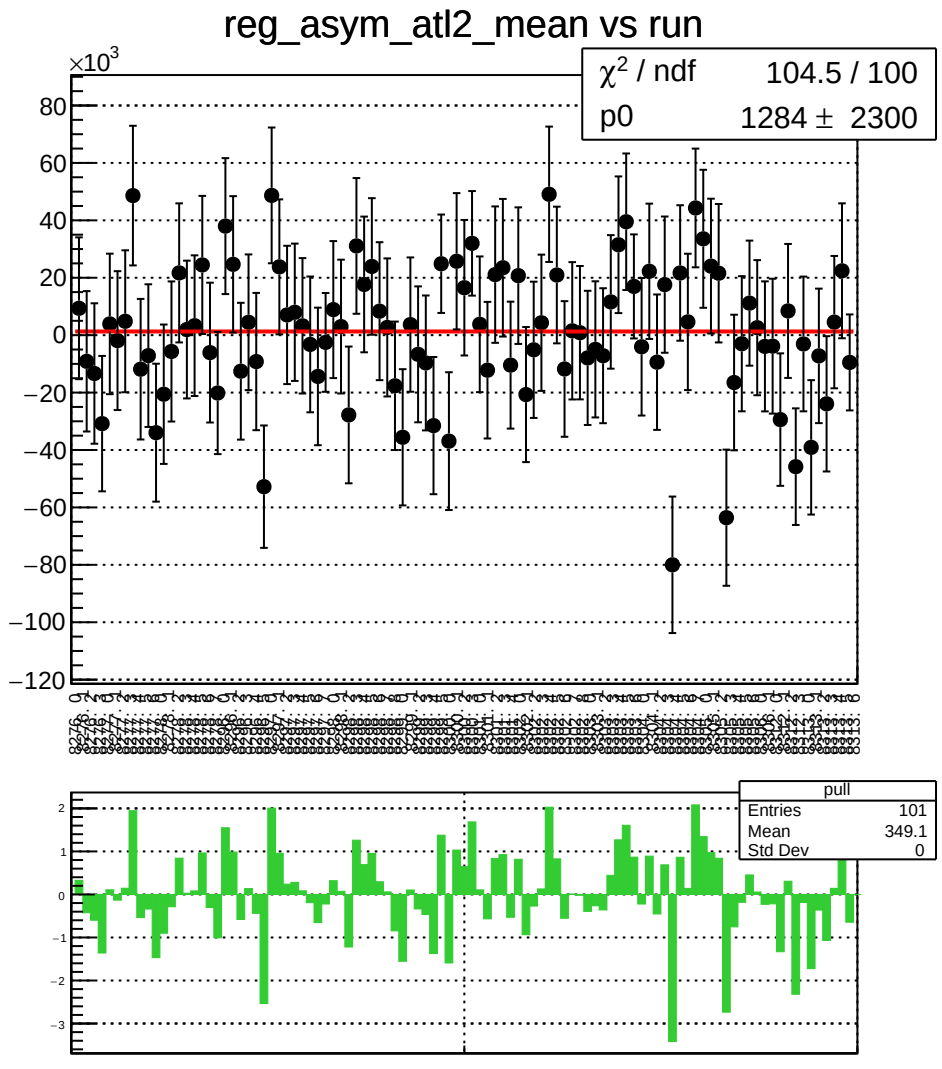

asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.26e+05 / 100
p0 61.71 ± 0.04731
180
160
140
120
100
80
60
40
20

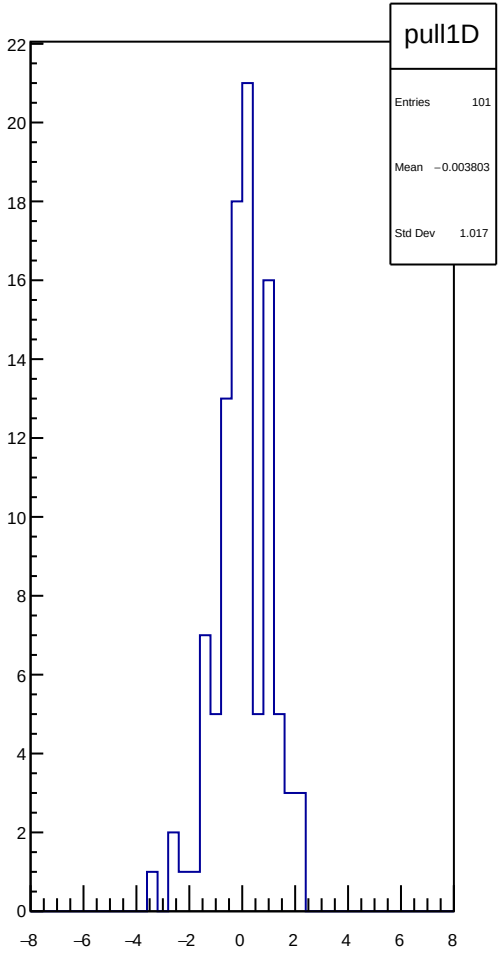

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 118.2 / 100
p0 −0.1055 ± 0.0669
pull
Entries 101
Mean 26.99
Std Dev 0
pull1D
Entries 101
Mean 0.04065
Std Dev 1.081

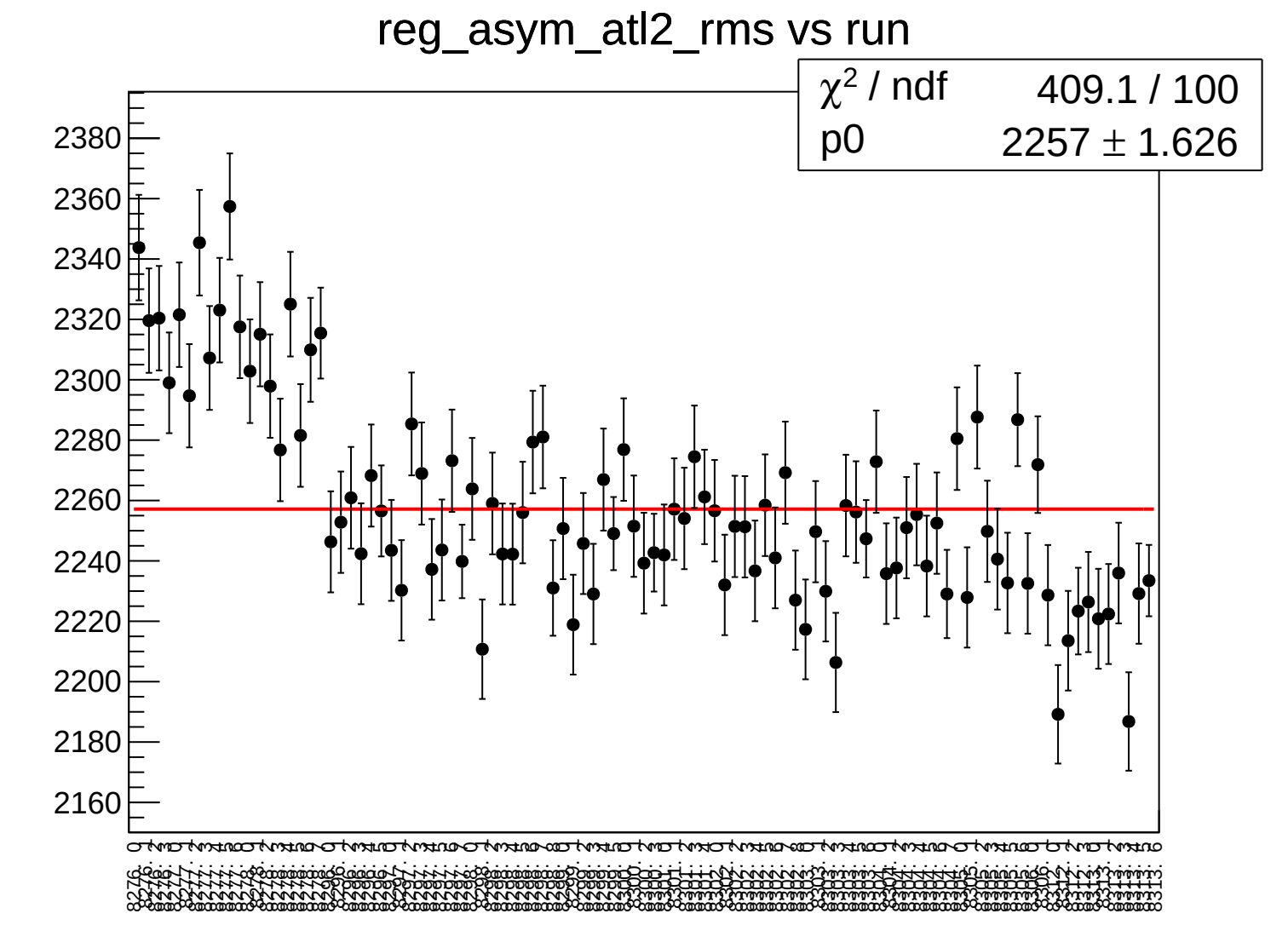

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.26e+05 / 100
p0 61.71 ± 0.04731
180
160
140
120
100
80
60
40
20

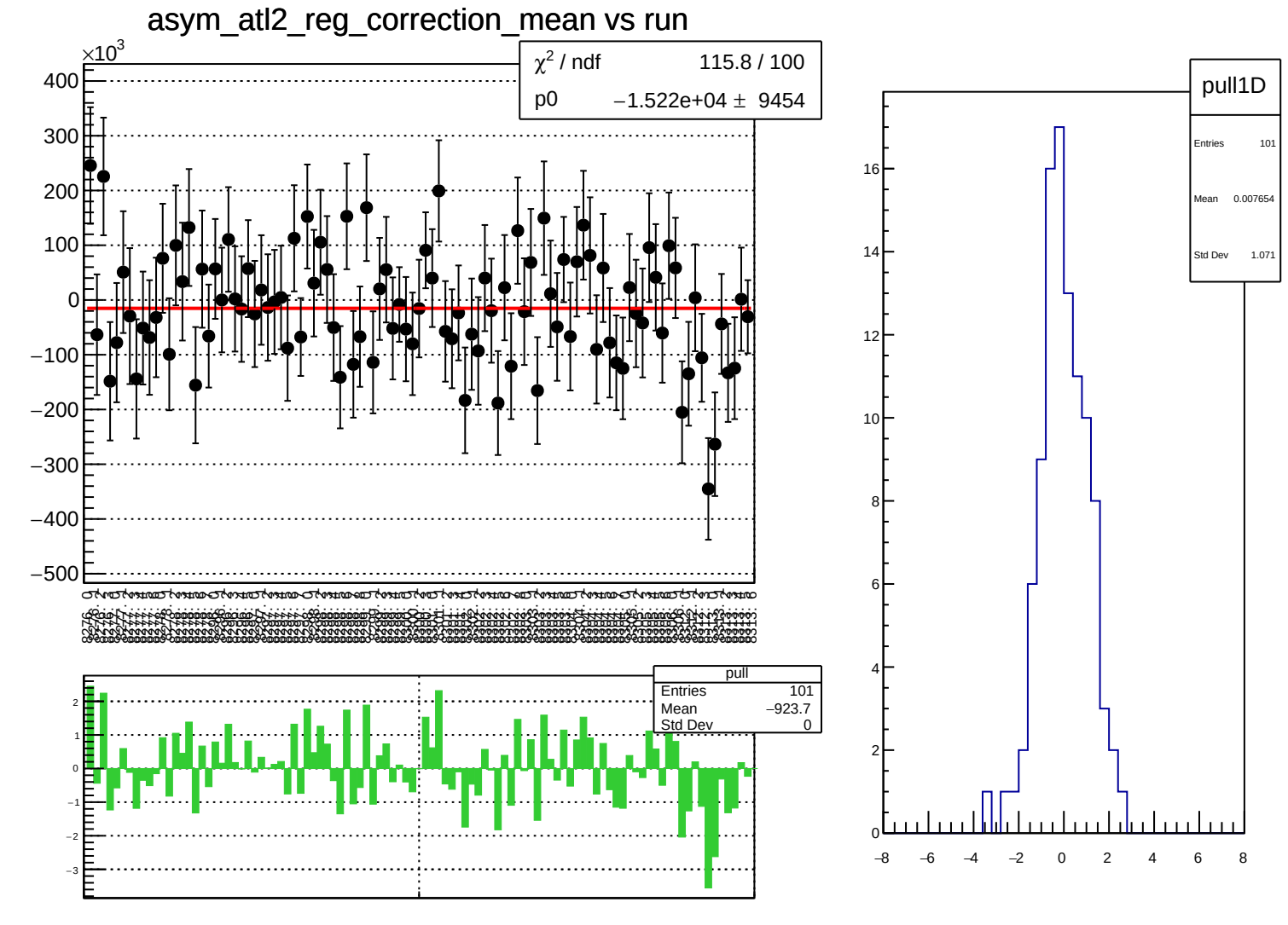

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 102.3 / 100
p0 −2.505e−14 ± 4.548e−14
pull
Entries 101
Mean 61.28
Std Dev 0
pull1D
Entries 101
Mean 0.05958
Std Dev 1.005

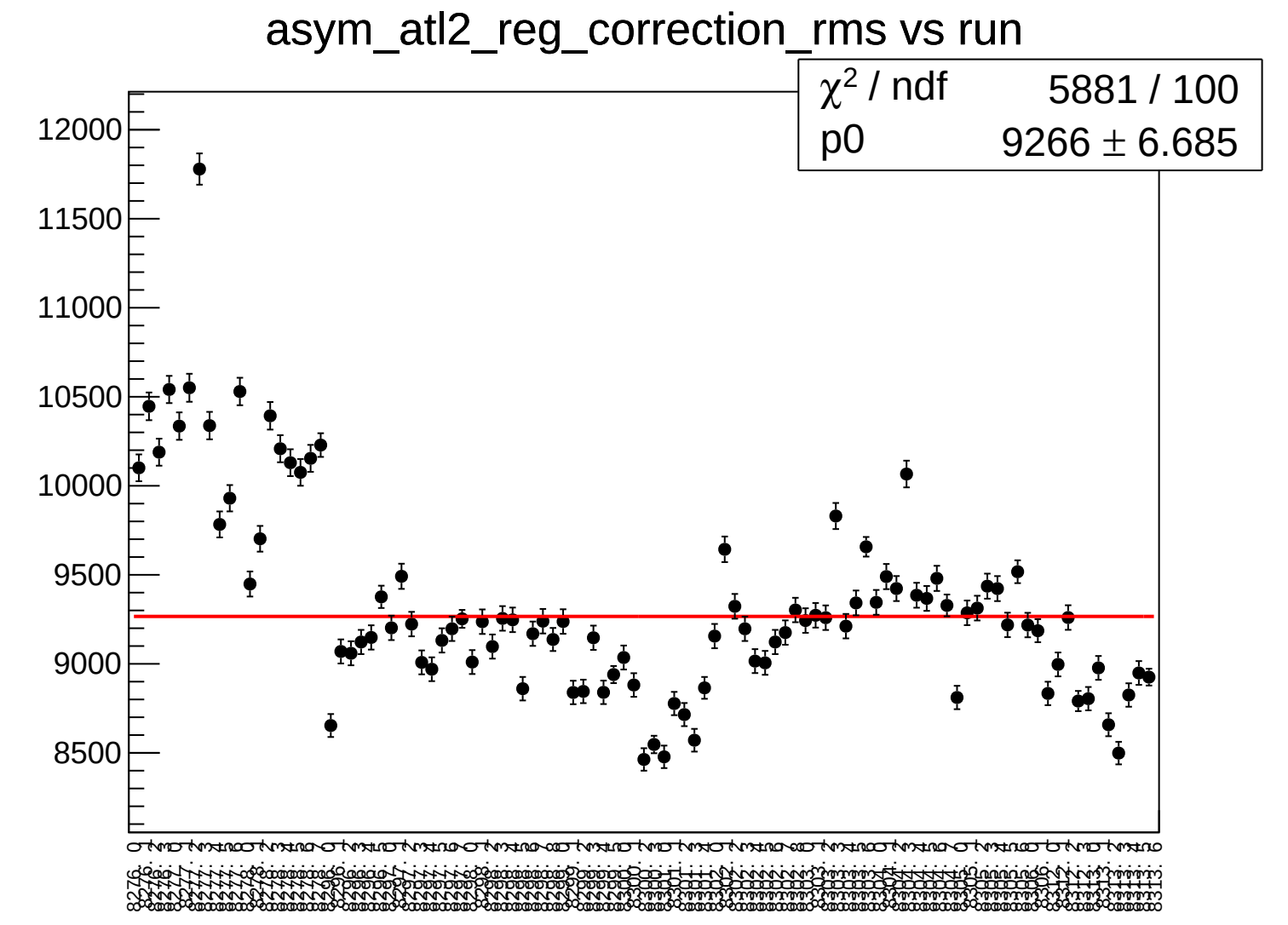

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.35
0.3
0.25
0.2
0.15
0.1
0.05
χ² / ndf 5.15e+05 / 100
p0 3.822e−11 ± 3.216e−14

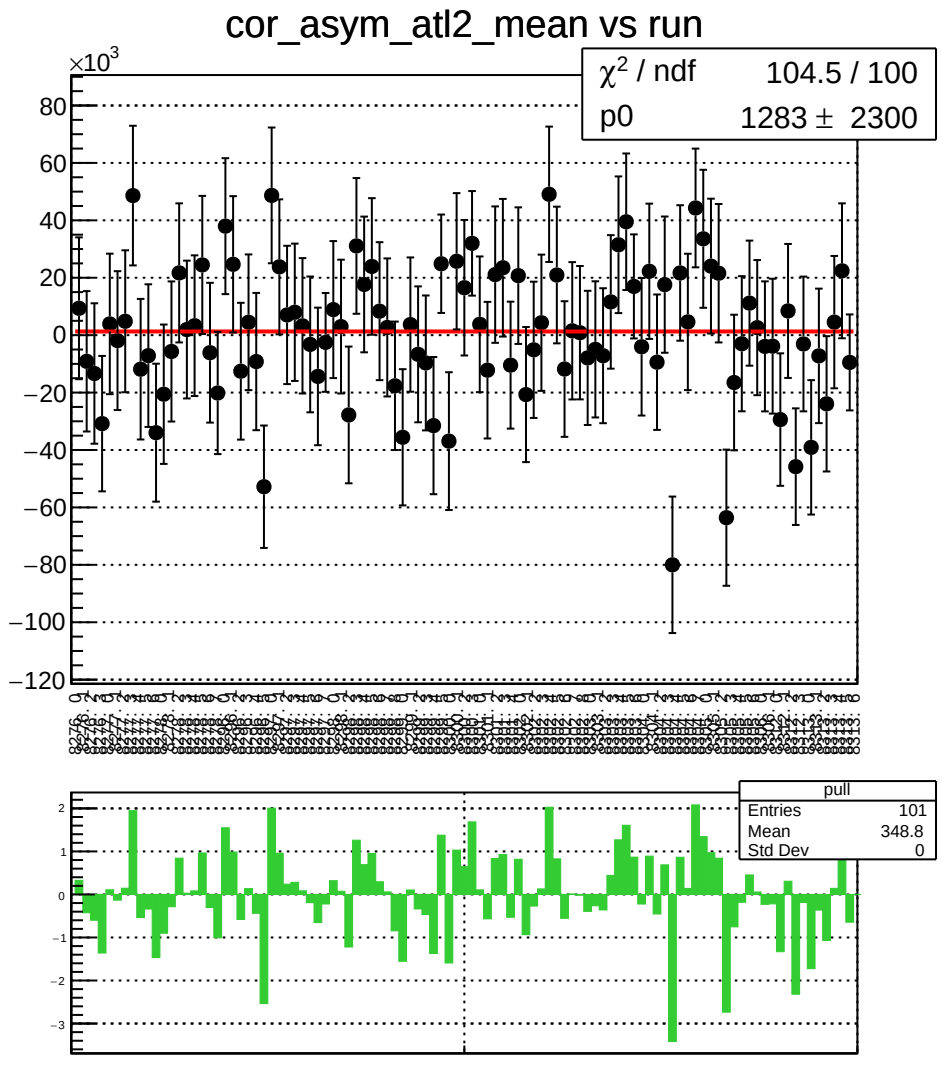

reg_asym_atl2_mean vs run
×10^3
χ^2 / ndf 104.5 / 100
p0 1284 ± 2300
pull
Entries 101
Mean 349.1
Std Dev 0

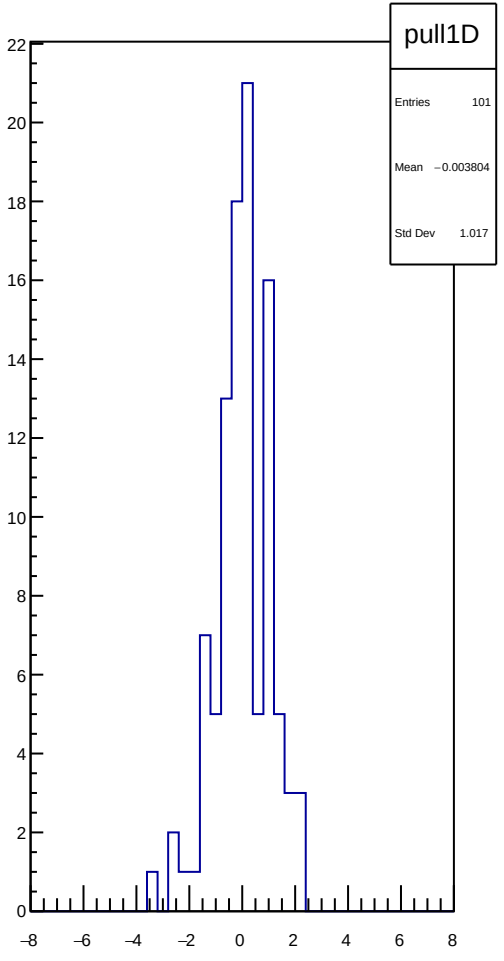

pull1D
Entries 101
Mean −0.003803
Std Dev 1.017

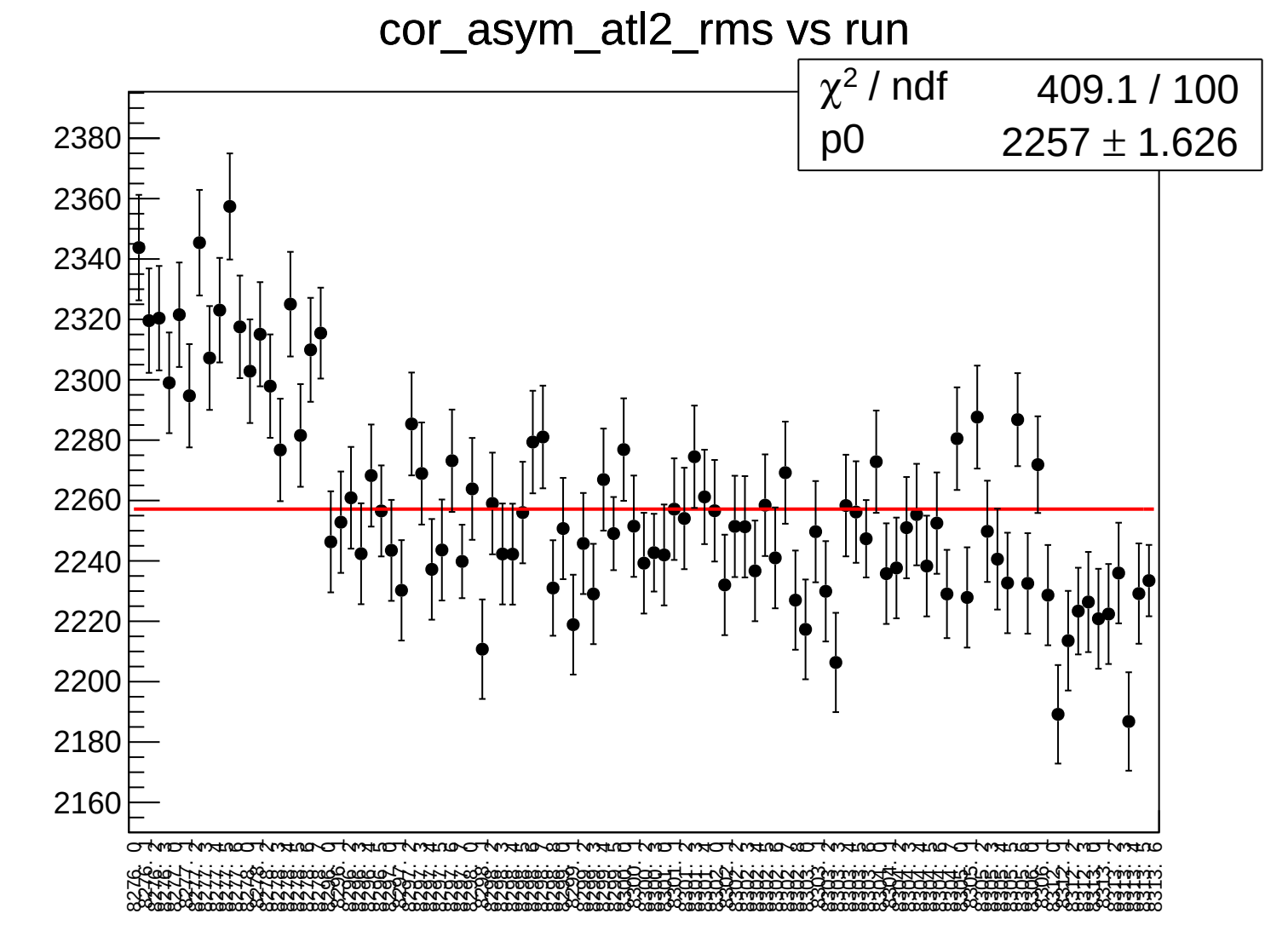

reg_asym_atl2_rms vs run
χ² / ndf 409.1 / 100
p0 2257 ± 1.626
2380
2360
2340
2320
2300
2280
2260
2240
2220
2200
2180
2160

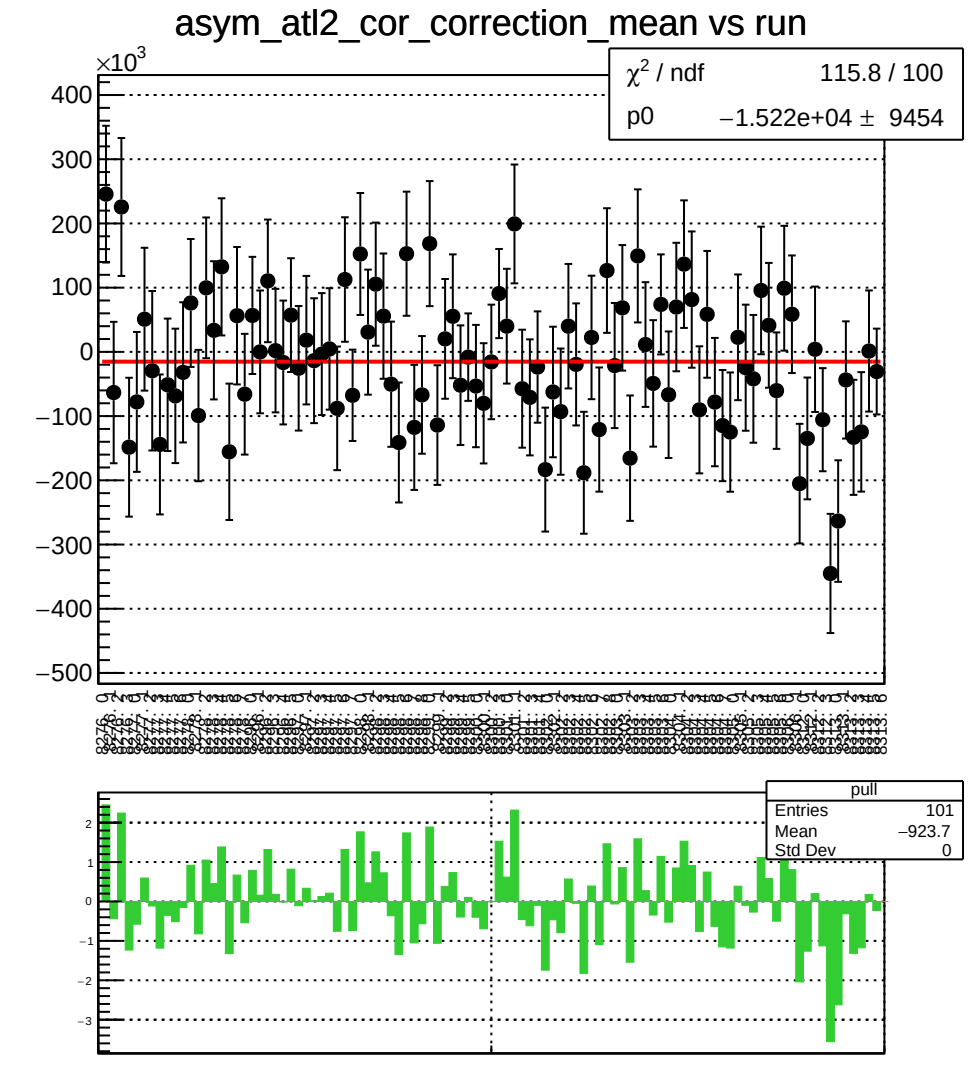

asym_atl2_reg_correction_mean vs run
×10^3
χ² / ndf 115.8 / 100
p0 −1.522e+04 ± 9454
pull
Entries 101
Mean −923.7
Std Dev 0
pull1D
Entries 101
Mean 0.007654
Std Dev 1.071

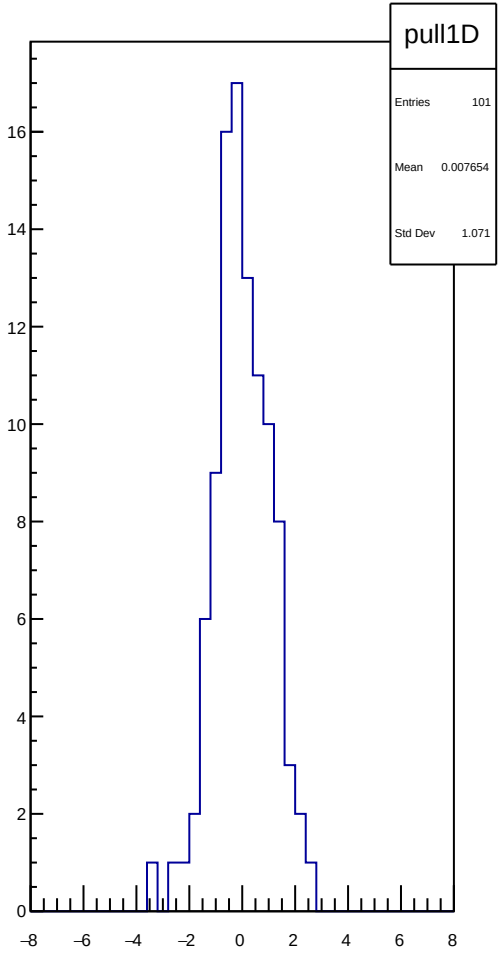

asym_atl2_reg_correction_rms vs run
χ² / ndf 5881 / 100
p0 9266 ± 6.685
12000
11500
11000
10500
10000
9500
9000
8500

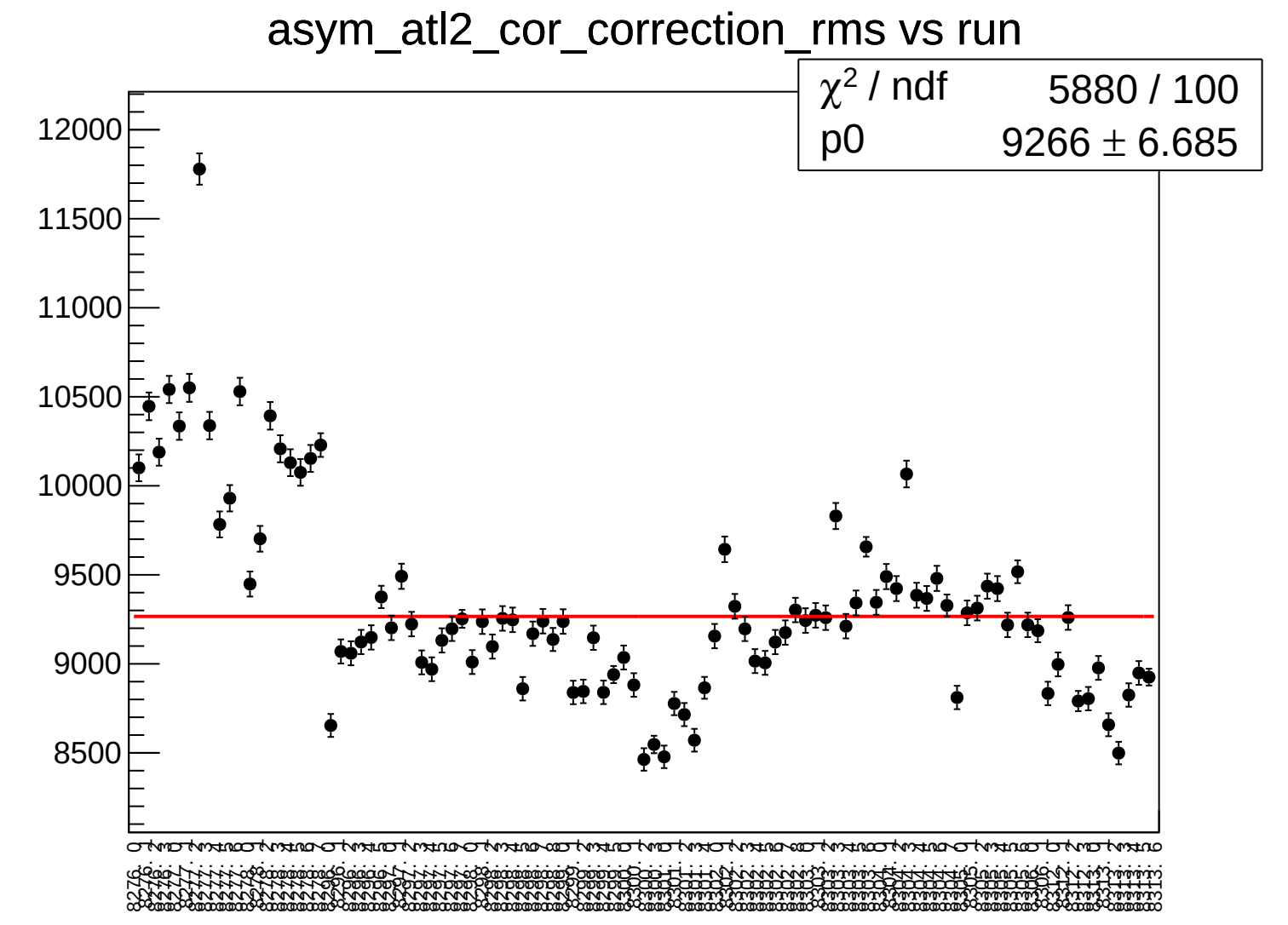

cor_asym_atl2_mean vs run
×10^3
χ^2 / ndf 104.5 / 100
p0 1283 ± 2300
pull
Entries 101
Mean 348.8
Std Dev 0

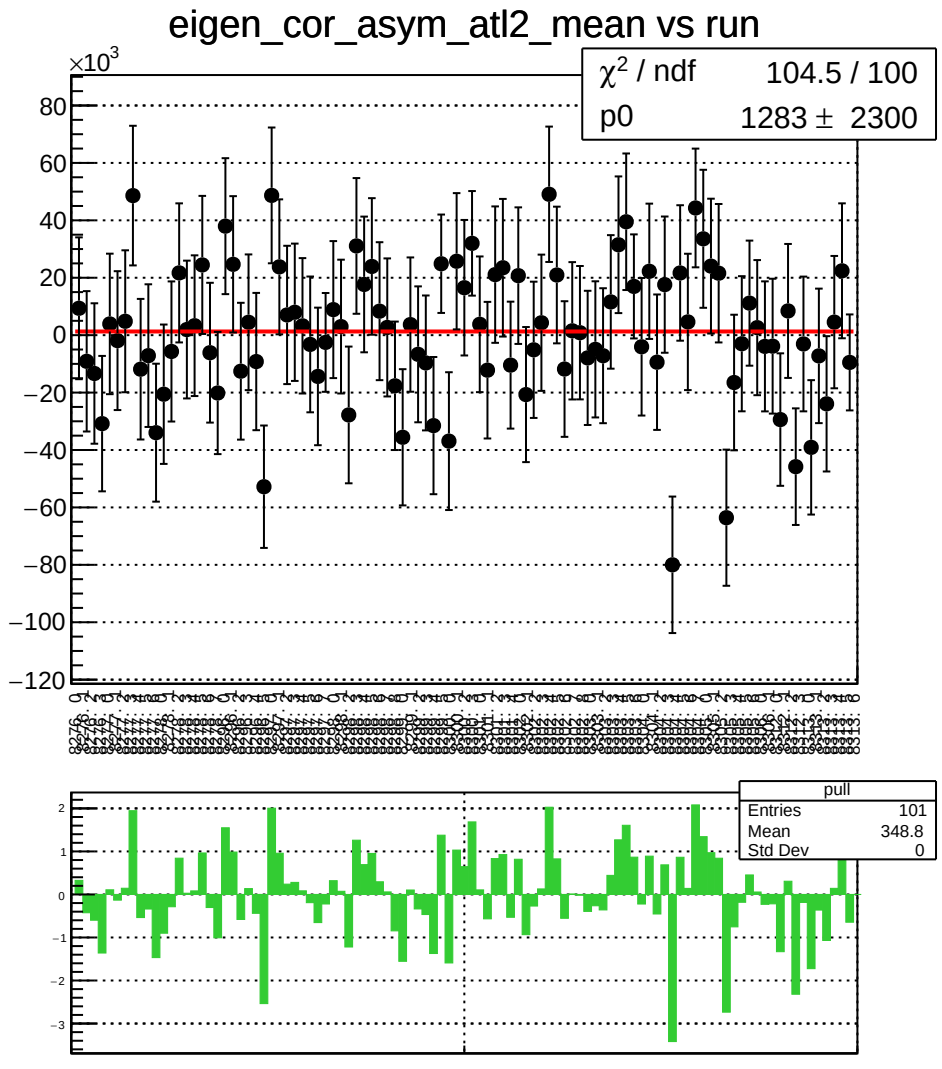

pull1D
Entries 101
Mean −0.003804
Std Dev 1.017

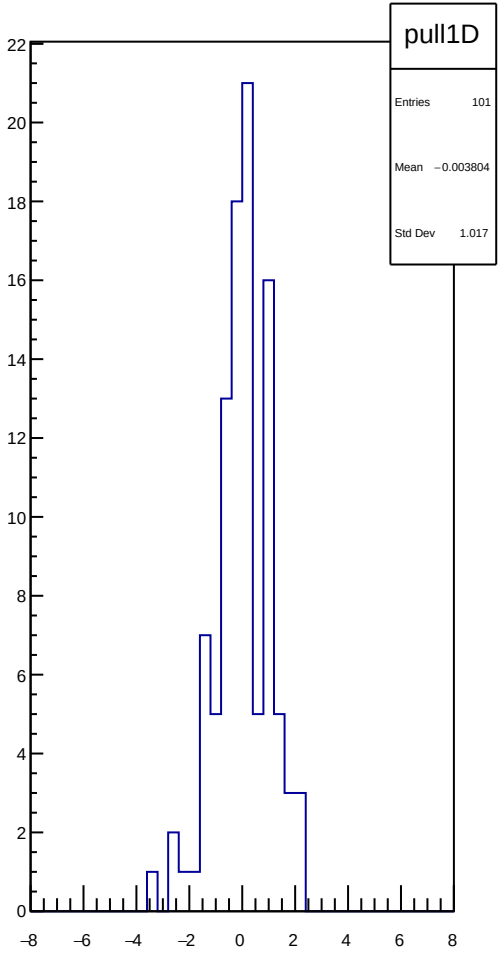

cor_asym_atl2_rms vs run
χ² / ndf 409.1 / 100
p0 2257 ± 1.626
2380
2360
2340
2320
2300
2280
2260
2240
2220
2200
2180
2160

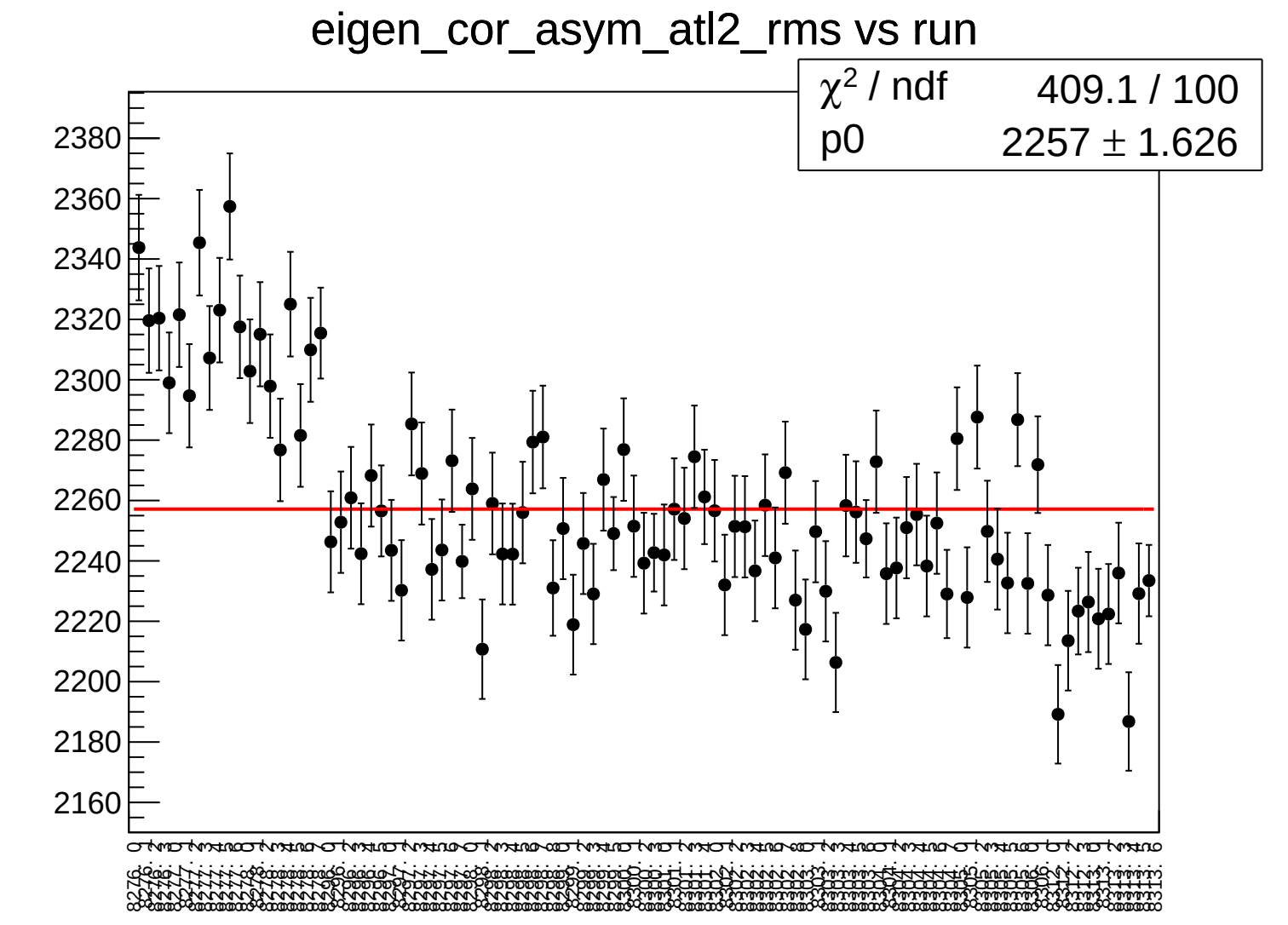

asym_atl2_cor_correction_mean vs run
×10^3
χ² / ndf 115.8 / 100
p0 −1.522e+04 ± 9454
pull
Entries 101
Mean −923.7
Std Dev 0

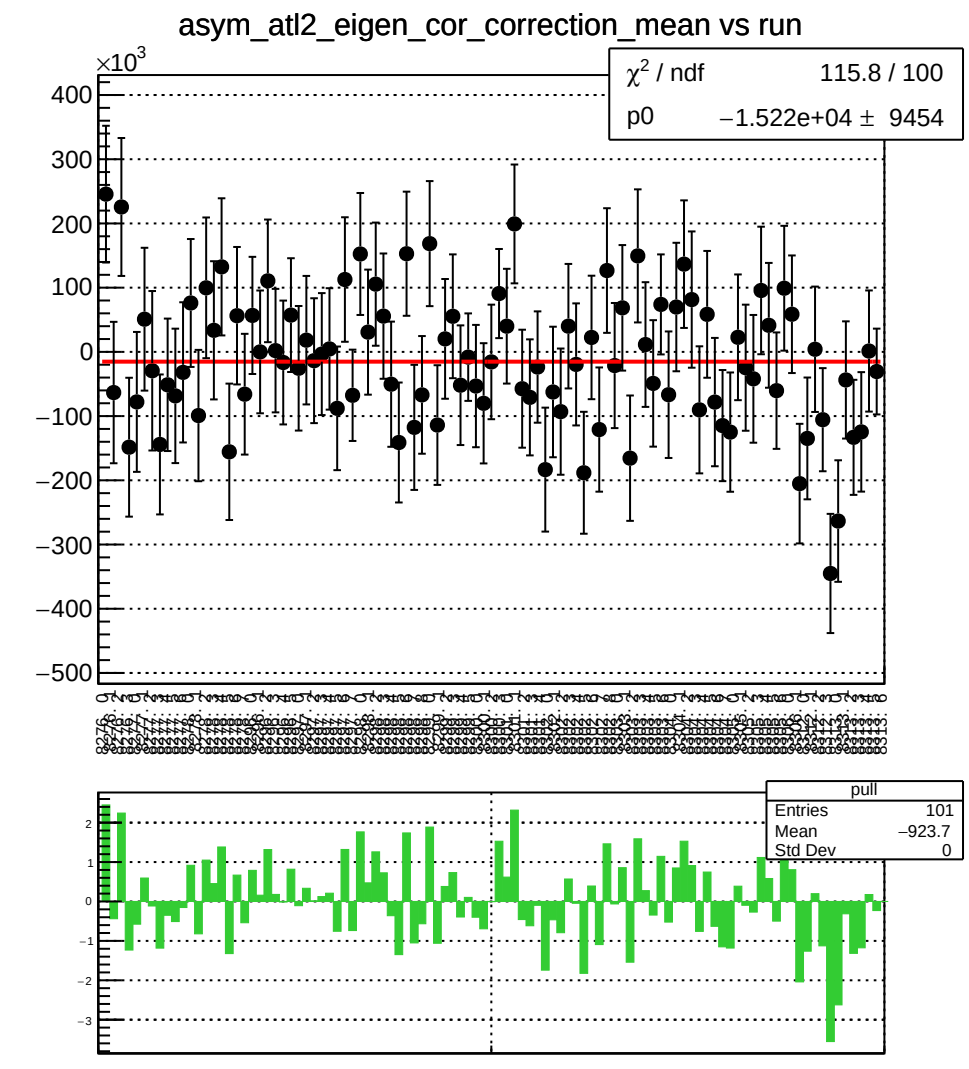

pull1D
Entries 101
Mean 0.007654
Std Dev 1.071

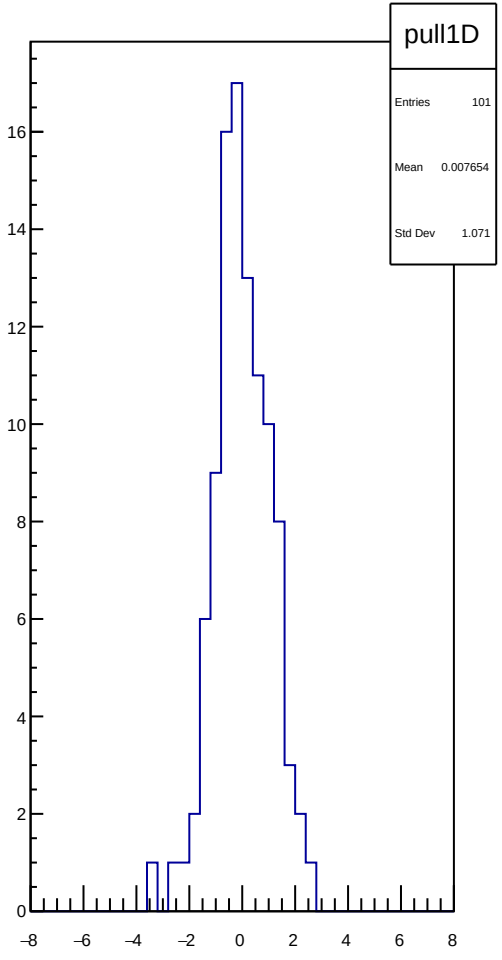

asym_atl2_cor_correction_rms vs run
χ^2 / ndf 5880 / 100
p0 9266 ± 6.685
12000
11500
11000
10500
10000
9500
9000
8500

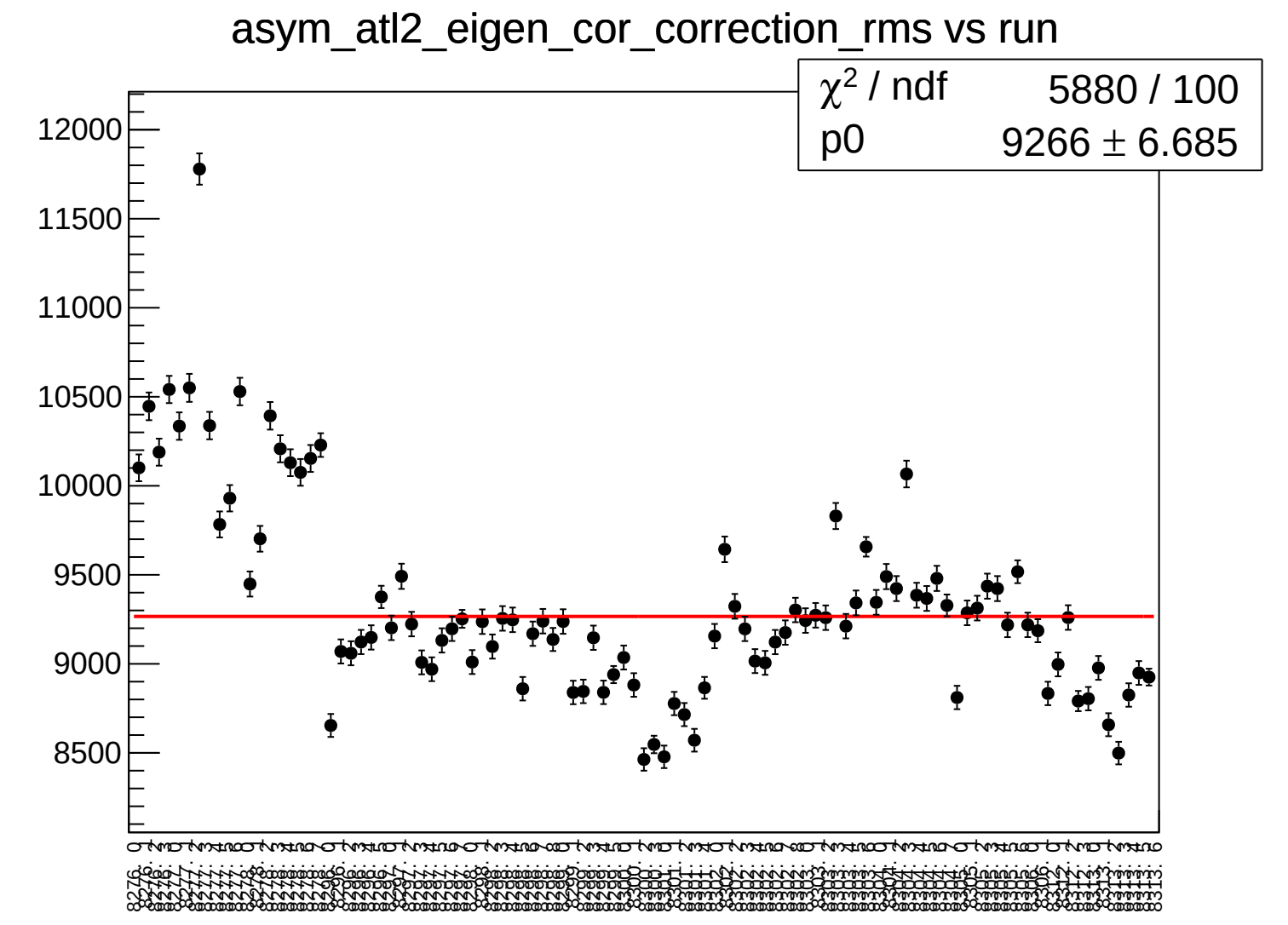

eigen_cor_asym_atl2_mean vs run
×10^3
χ^2 / ndf 104.5 / 100
p0 1283 ± 2300
pull
Entries 101
Mean 348.8
Std Dev 0

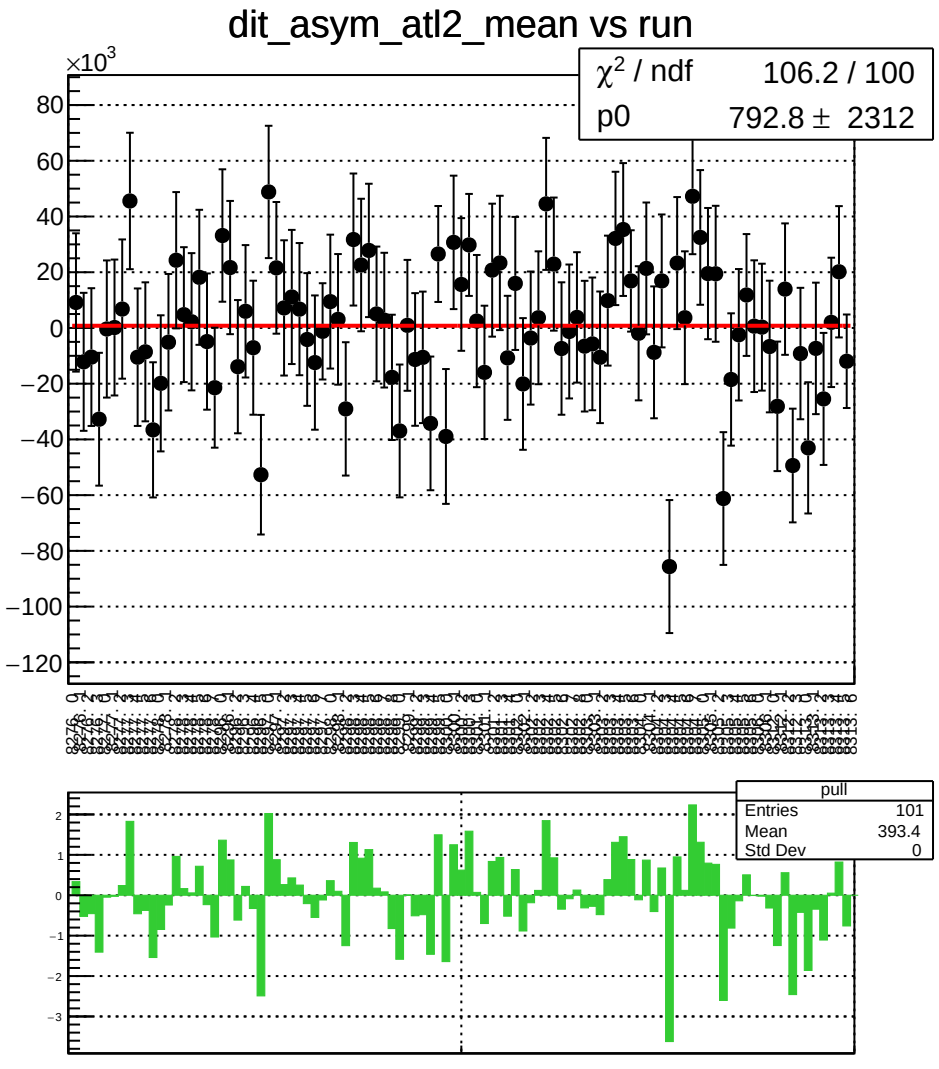

pull1D
Entries 101
Mean −0.003804
Std Dev 1.017

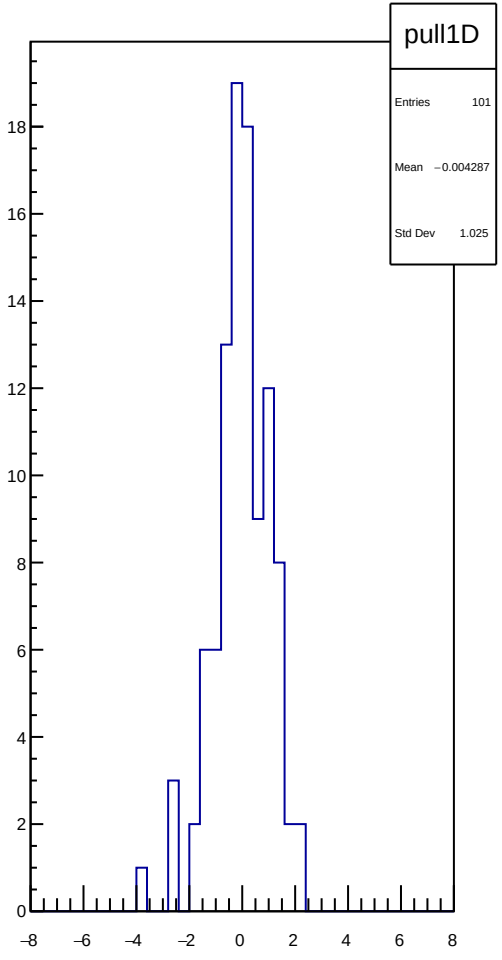

eigen_cor_asym_atl2_rms vs run
χ² / ndf 409.1 / 100
p0 2257 ± 1.626
2380
2360
2340
2320
2300
2280
2260
2240
2220
2200
2180
2160

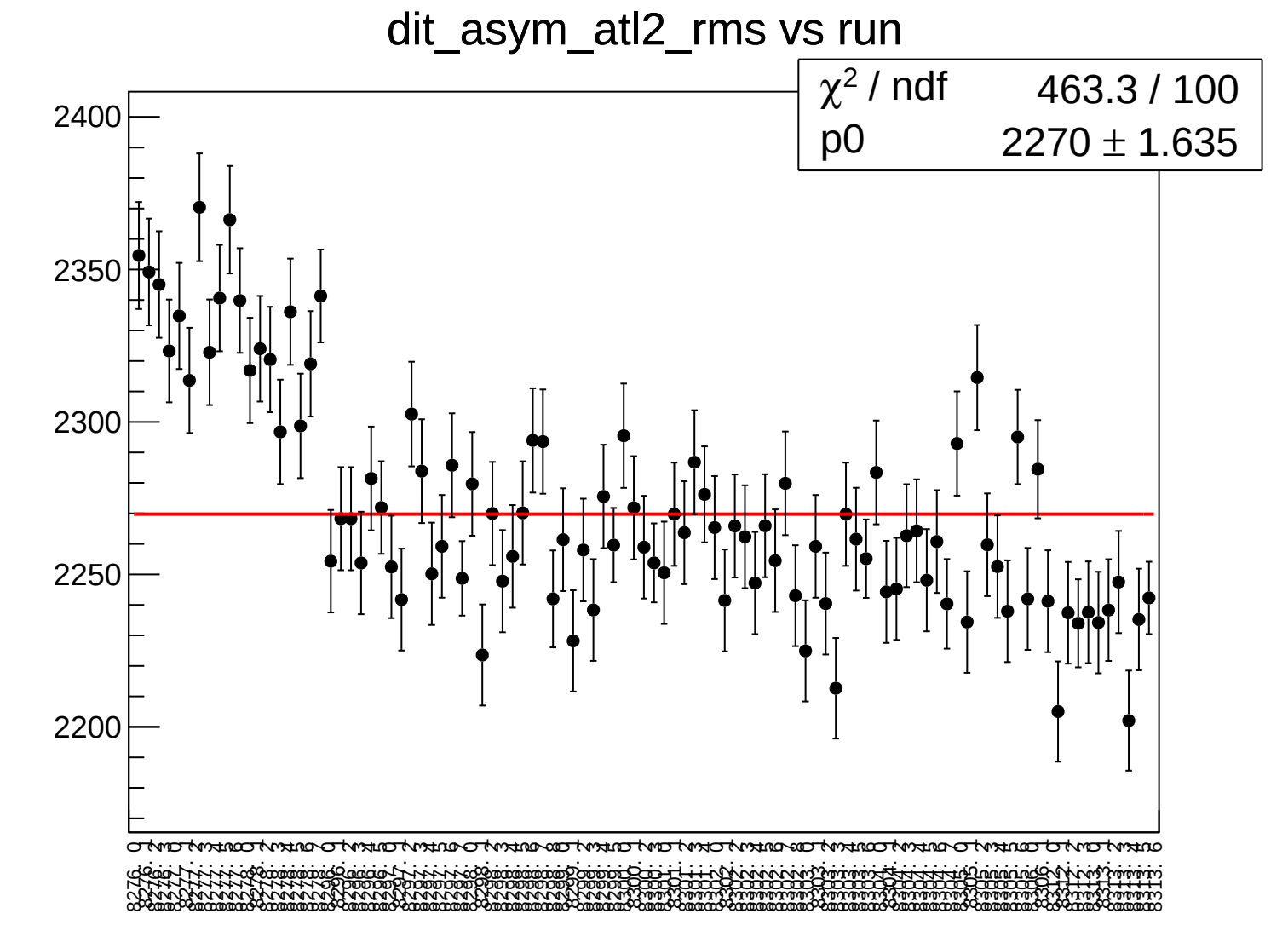

asym_atl2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 115.8 / 100
p0 −1.522e+04 ± 9454
pull
Entries 101
Mean −923.7
Std Dev 0

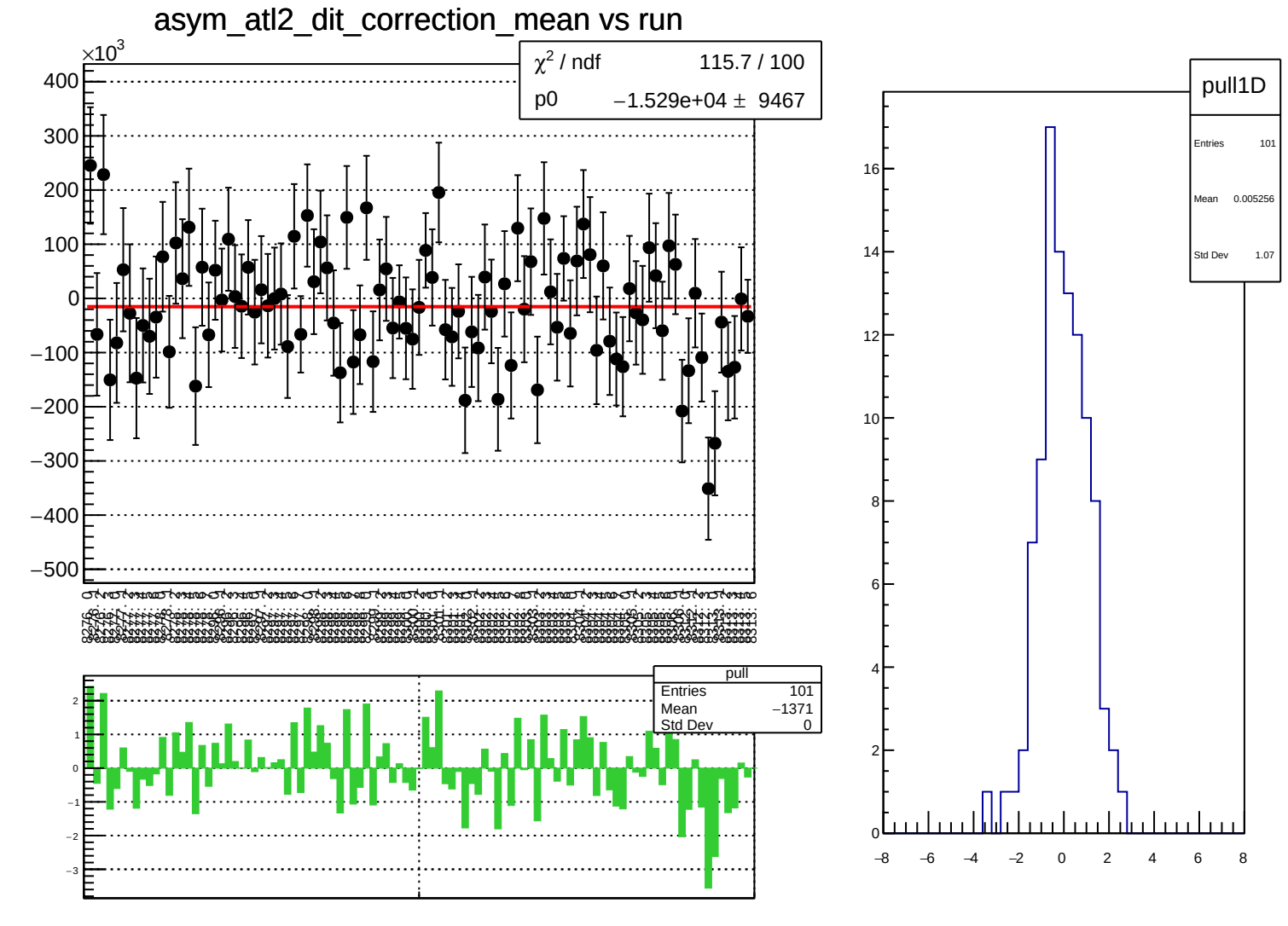

pull1D
Entries 101
Mean 0.007654
Std Dev 1.071

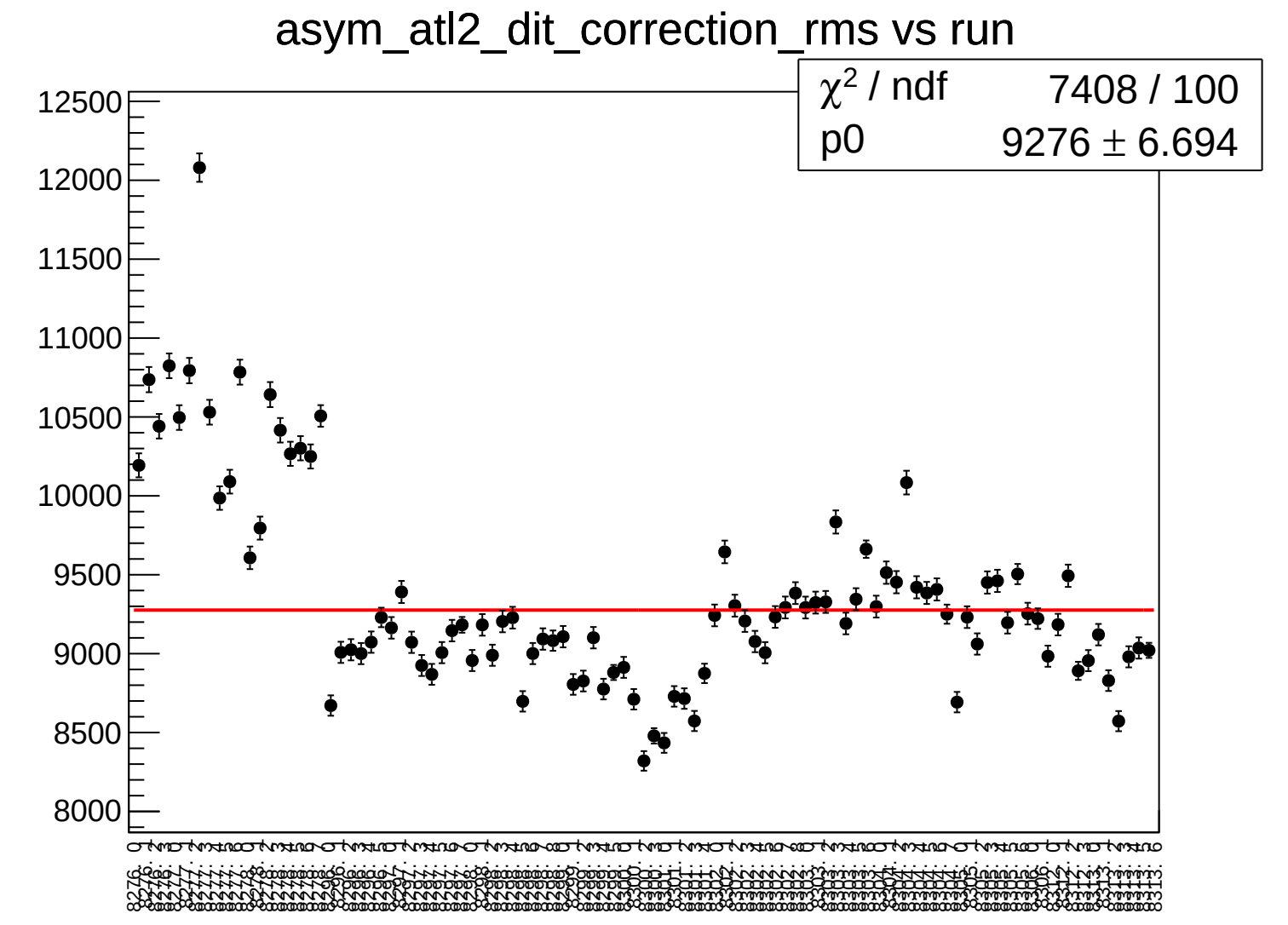

asym_atl2_eigen_cor_correction_rms vs run
χ^2 / ndf 5880 / 100
p0 9266 ± 6.685
12000
11500
11000
10500
10000
9500
9000
8500

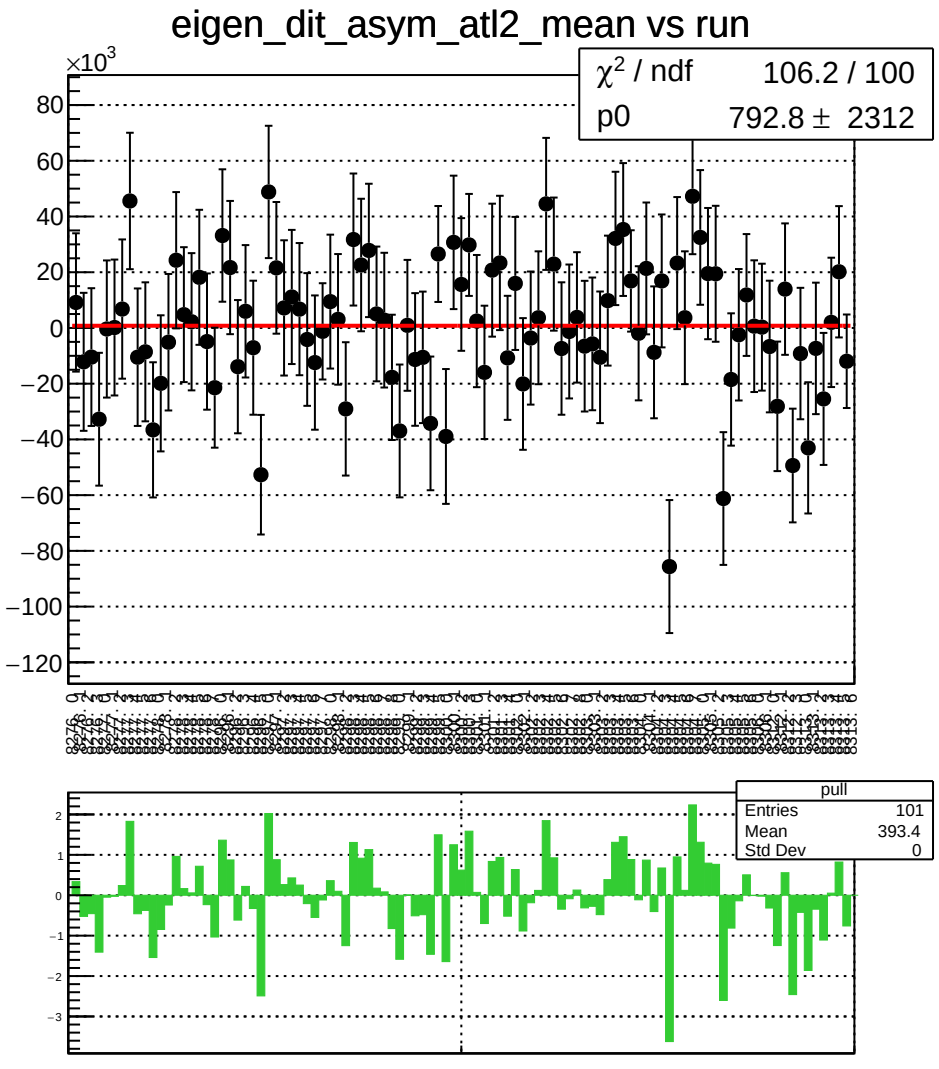

dit_asym_atl2_mean vs run
×10^3
χ^2 / ndf 106.2 / 100
p0 792.8 ± 2312
pull
Entries 101
Mean 393.4
Std Dev 0

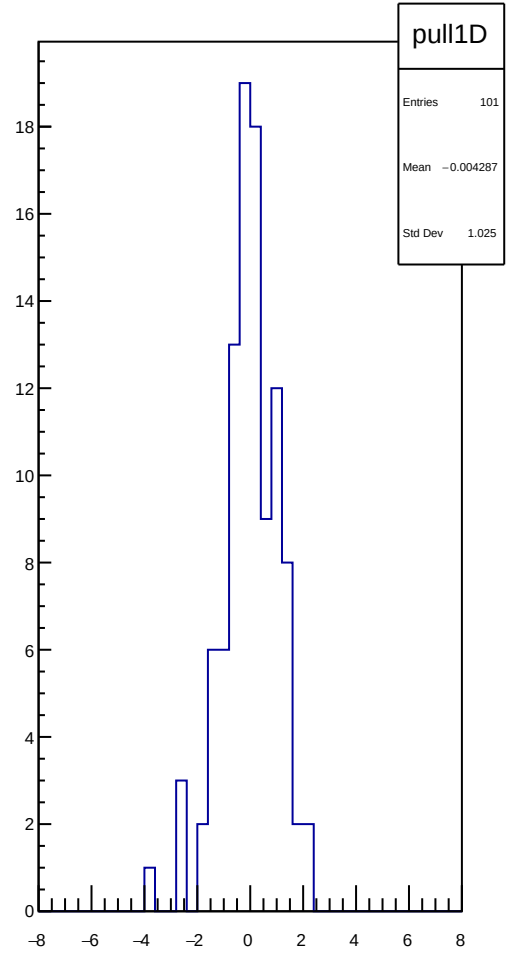

pull1D
Entries 101
Mean −0.004287
Std Dev 1.025

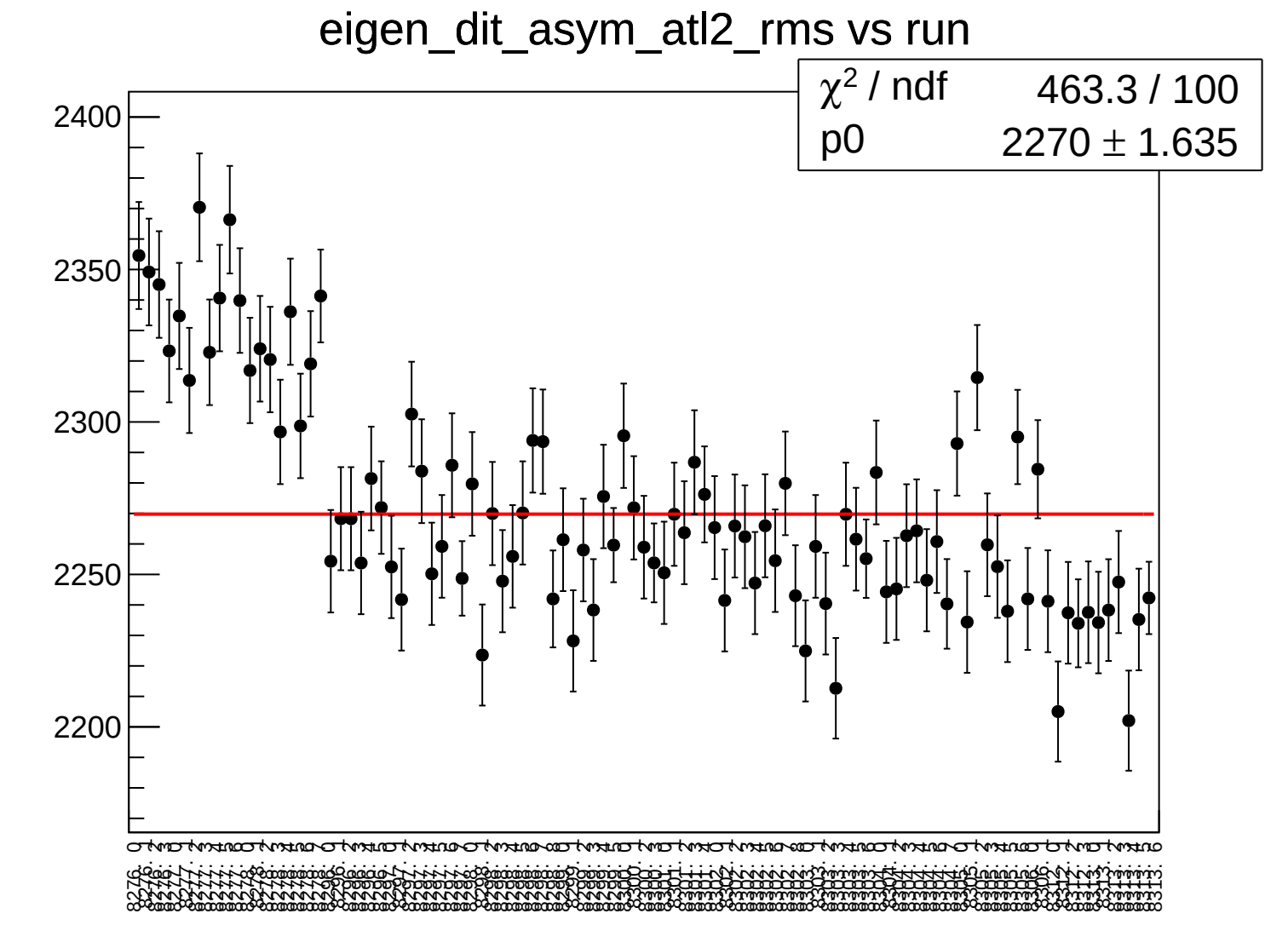

dit_asym_atl2_rms vs run
χ² / ndf 463.3 / 100
p0 2270 ± 1.635
2400
2350
2300
2250
2200

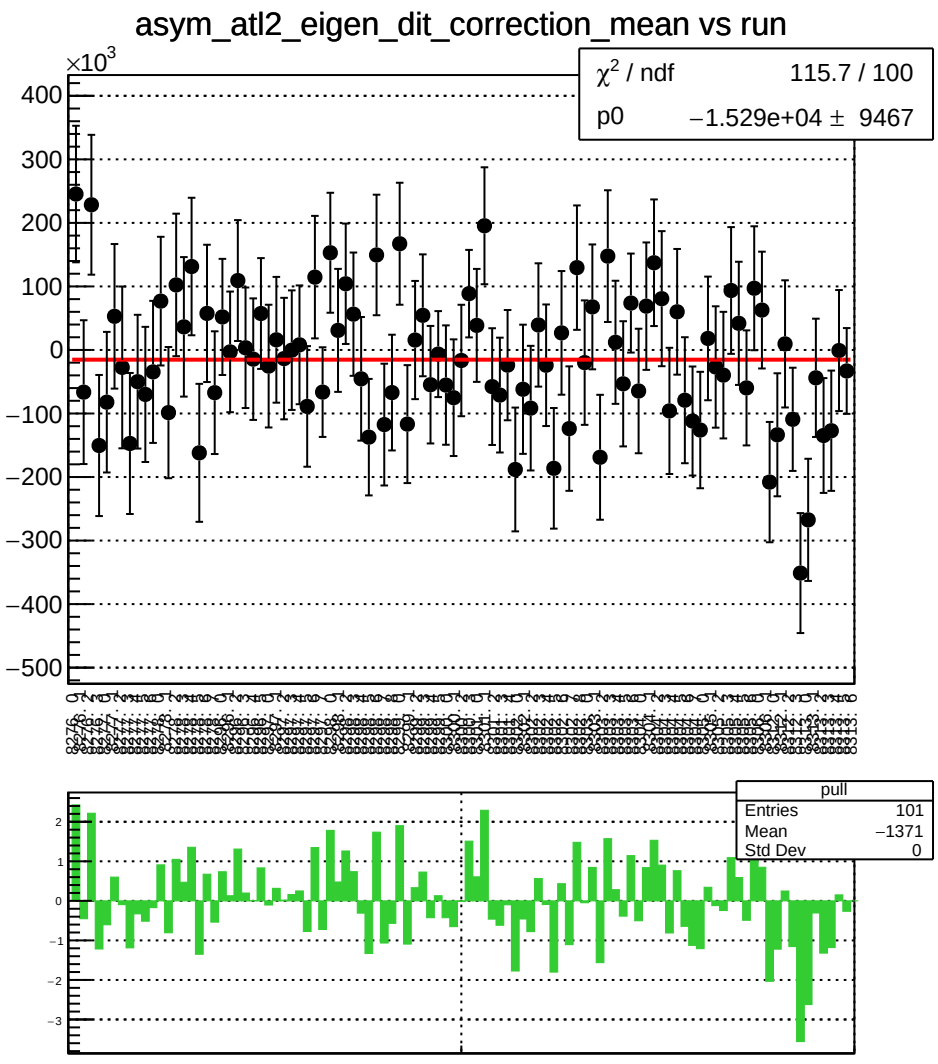

asym_atl2_dit_correction_mean vs run
×10^3
χ^2 / ndf 115.7 / 100
p0 −1.529e+04 ± 9467
pull
Entries 101
Mean −1371
Std Dev 0
pull1D
Entries 101
Mean 0.005256
Std Dev 1.07

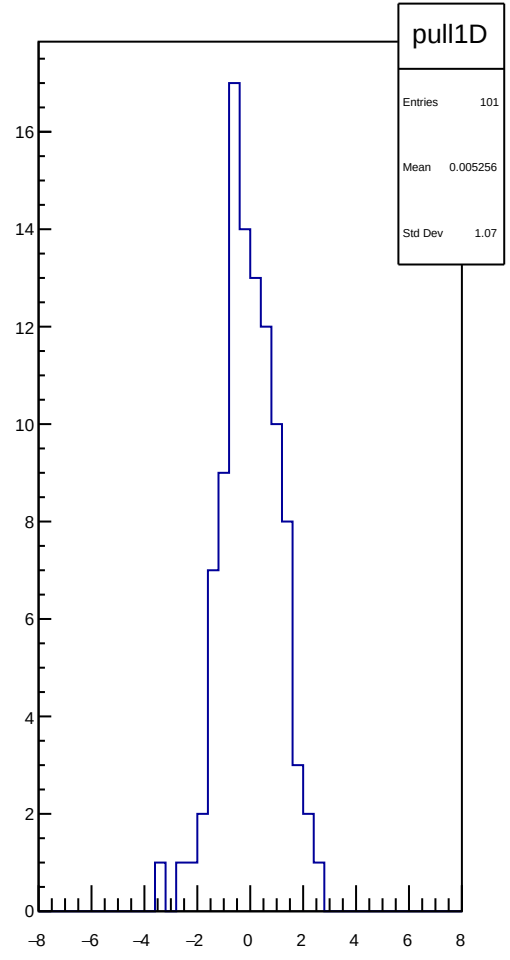

asym_atl2_dit_correction_rms vs run
χ² / ndf 7408 / 100
p0 9276 ± 6.694
12500
12000
11500
11000
10500
10000
9500
9000
8500
8000

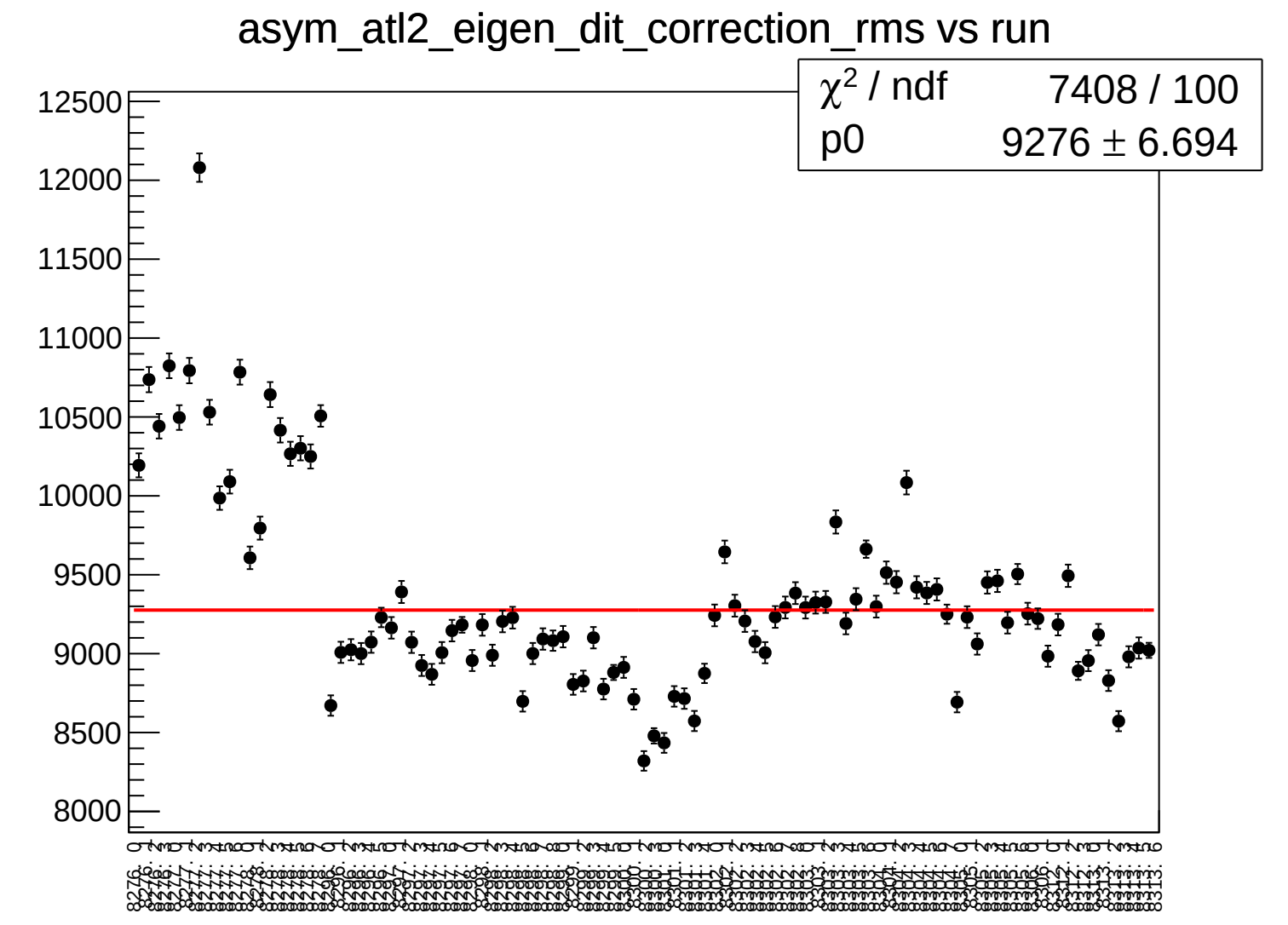

eigen_dit_asym_atl2_mean vs run
×10^3
χ^2 / ndf 106.2 / 100
p0 792.8 ± 2312
pull
Entries 101
Mean 393.4
Std Dev 0

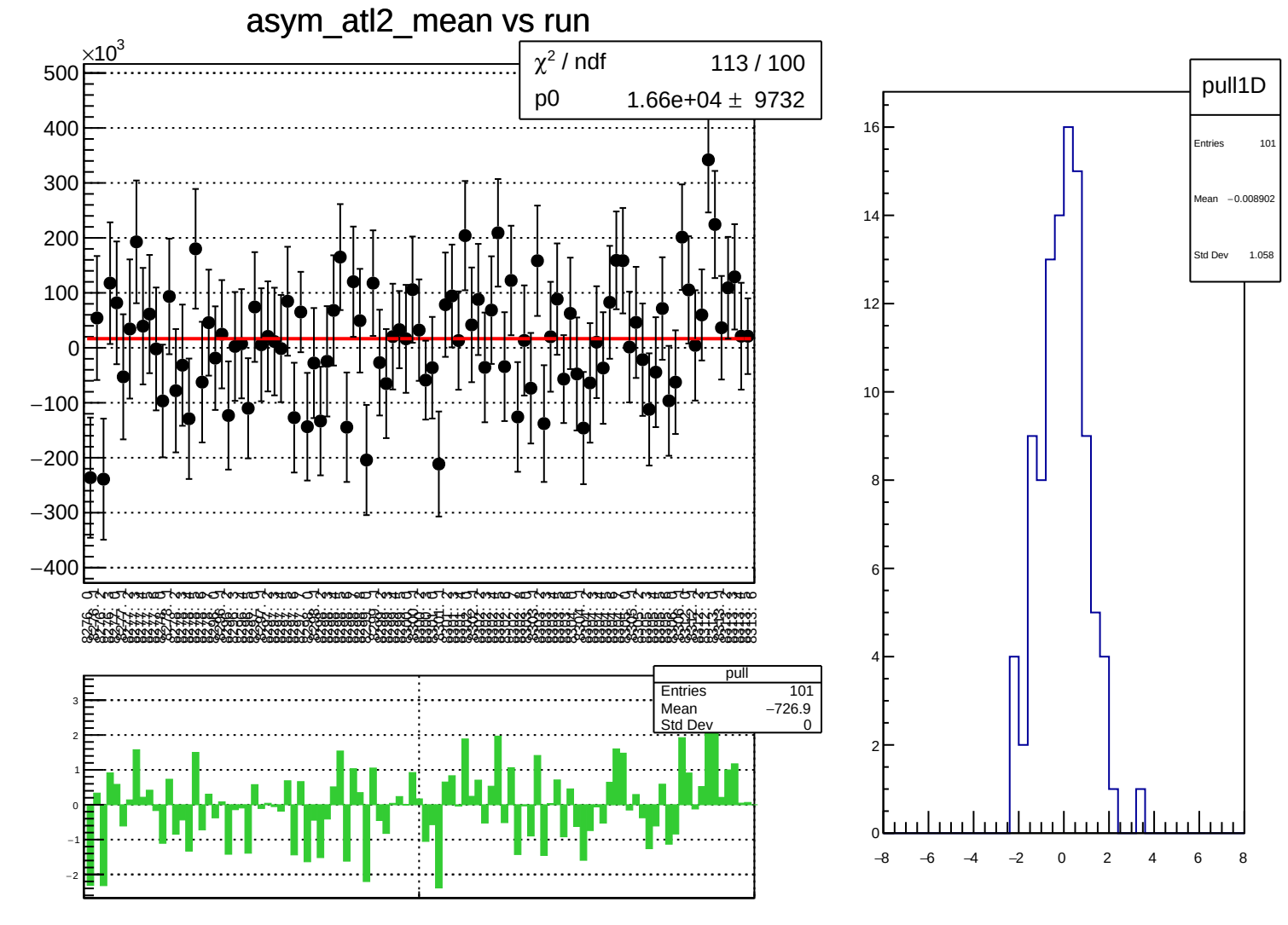

pull1D
Entries 101
Mean −0.004287
Std Dev 1.025

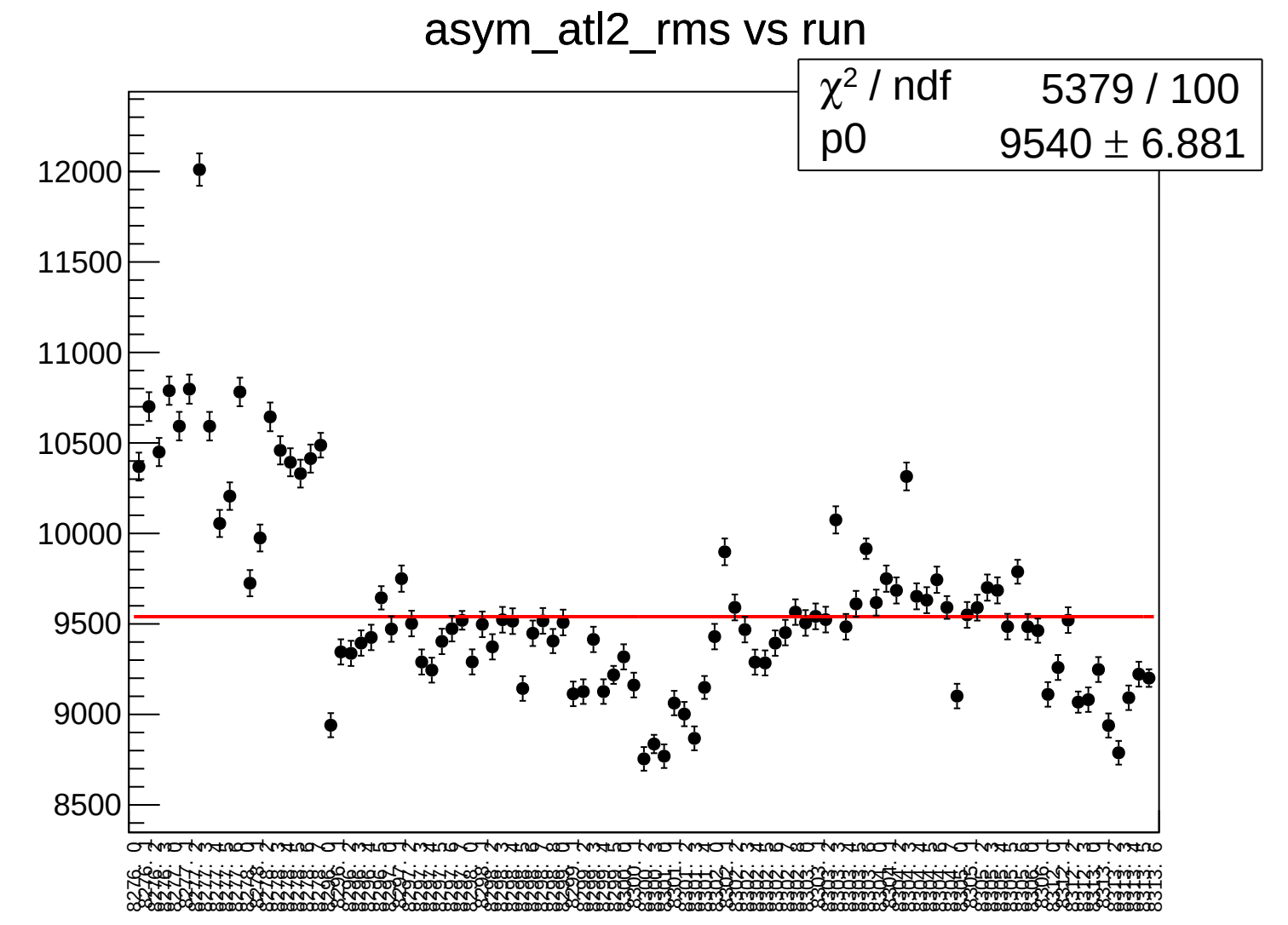

eigen_dit_asym_atl2_rms vs run
χ² / ndf 463.3 / 100
p0 2270 ± 1.635
2400
2350
2300
2250
2200

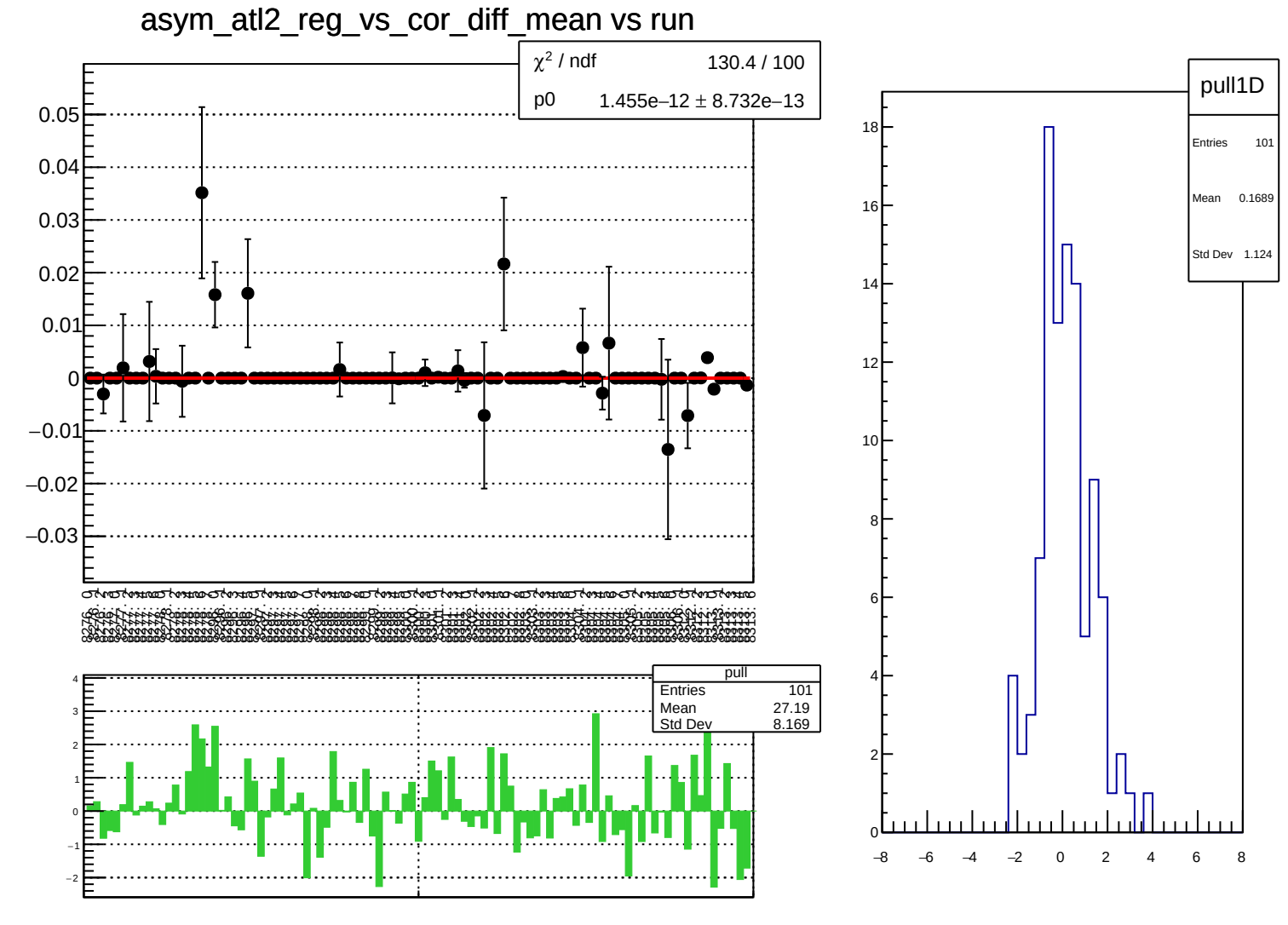

asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 115.7 / 100
p0 −1.529e+04 ± 9467
pull
Entries 101
Mean −1371
Std Dev 0

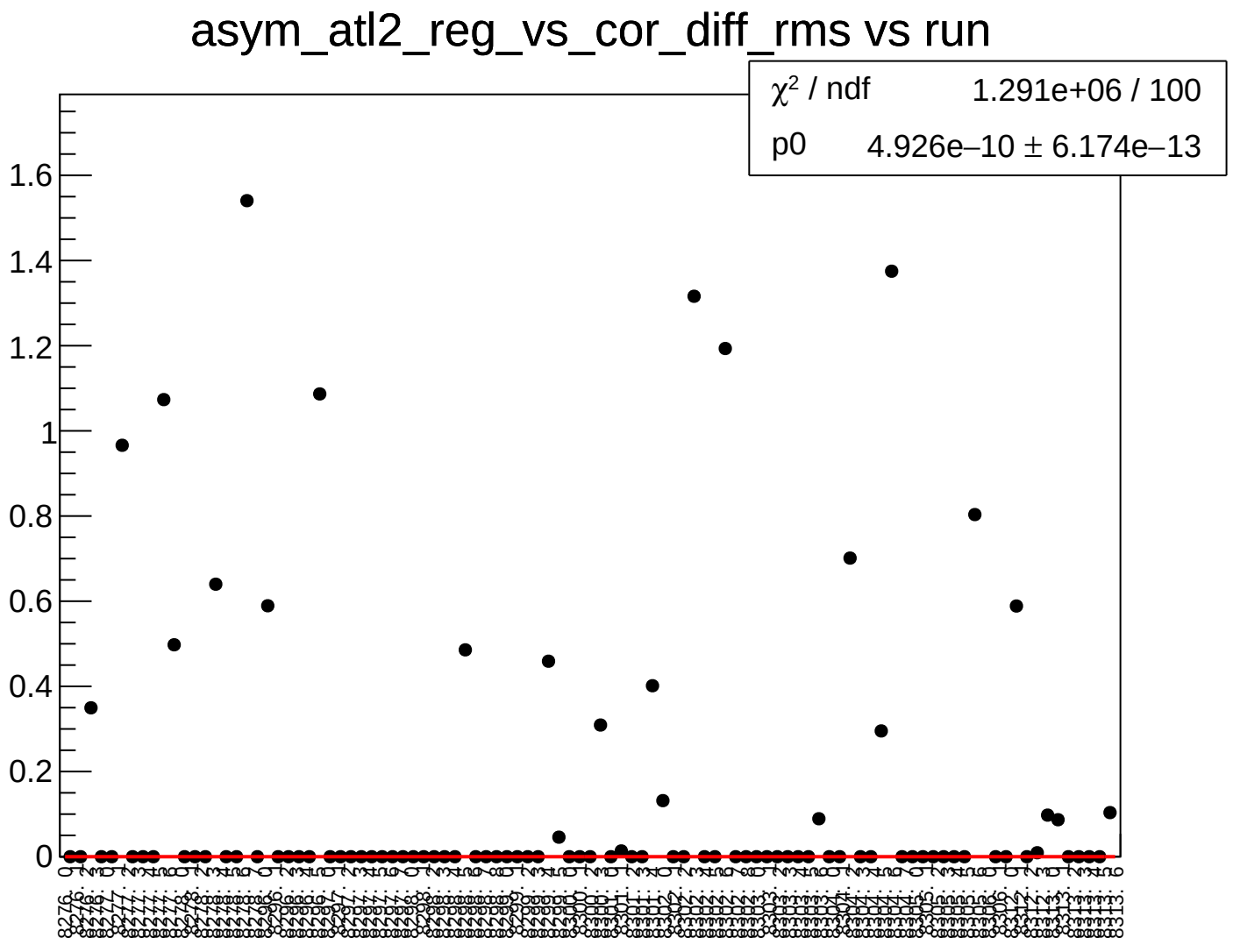

pull1D
Entries 101
Mean 0.005256
Std Dev 1.07

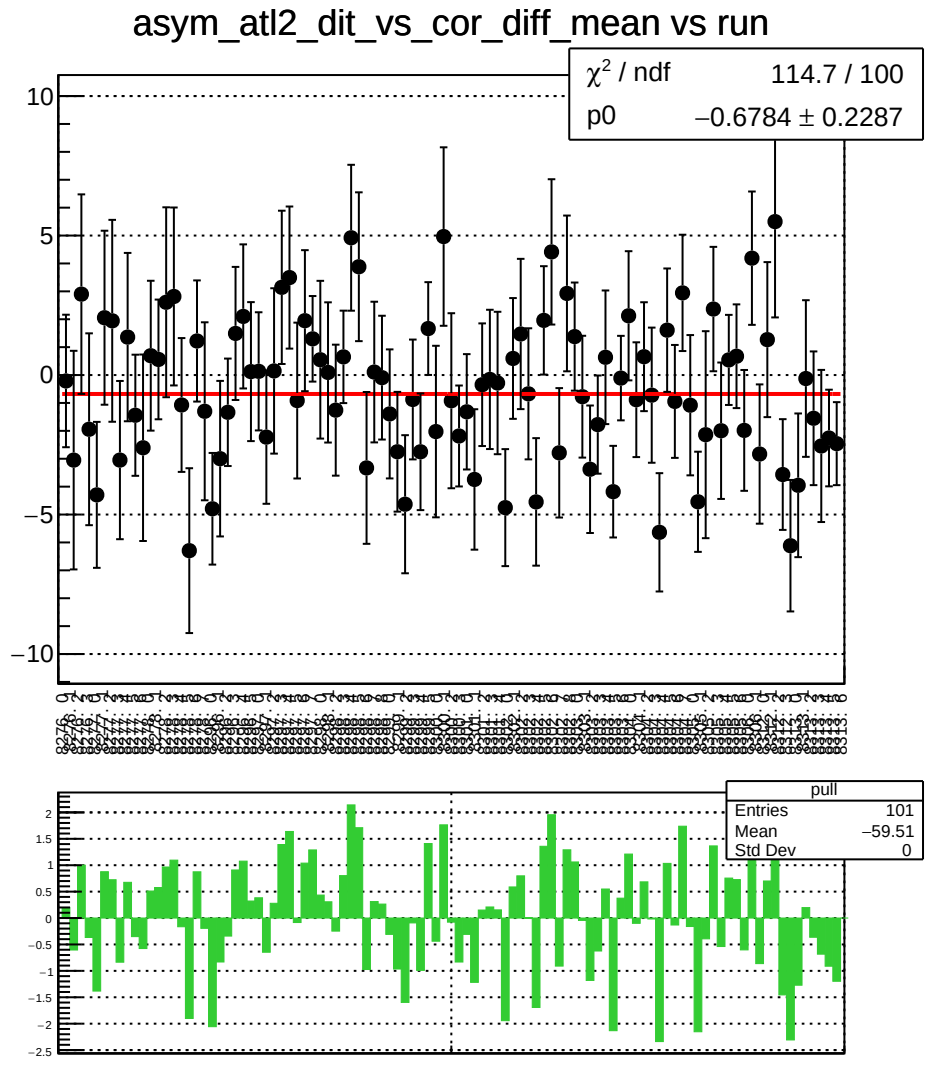

asym_atl2_eigen_dit_correction_rms vs run
χ² / ndf 7408 / 100
p0 9276 ± 6.694
12500
12000
11500
11000
10500
10000
9500
9000
8500
8000

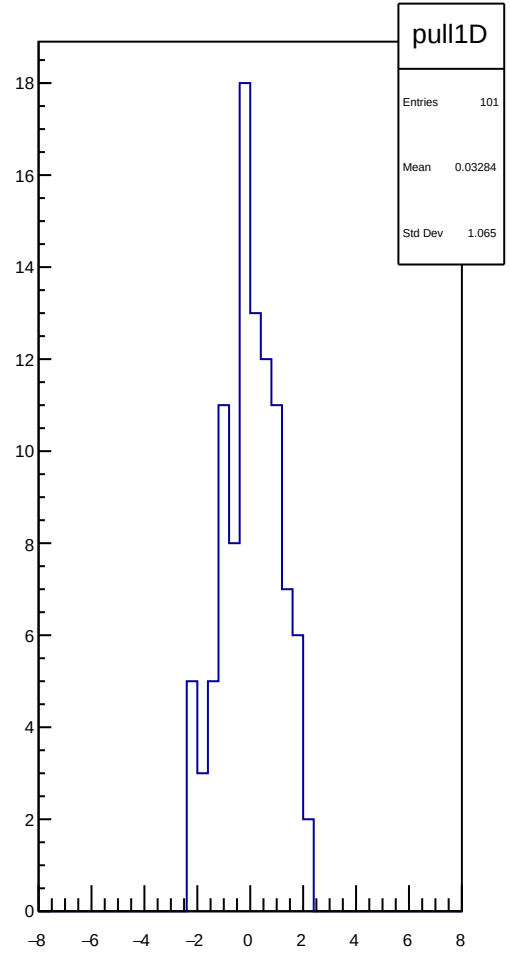

asym_atl2_mean vs run
×10^3
χ² / ndf 113 / 100
p0 1.66e+04 ± 9732
pull
Entries 101
Mean −726.9
Std Dev 0
pull1D
Entries 101
Mean −0.008902
Std Dev 1.058

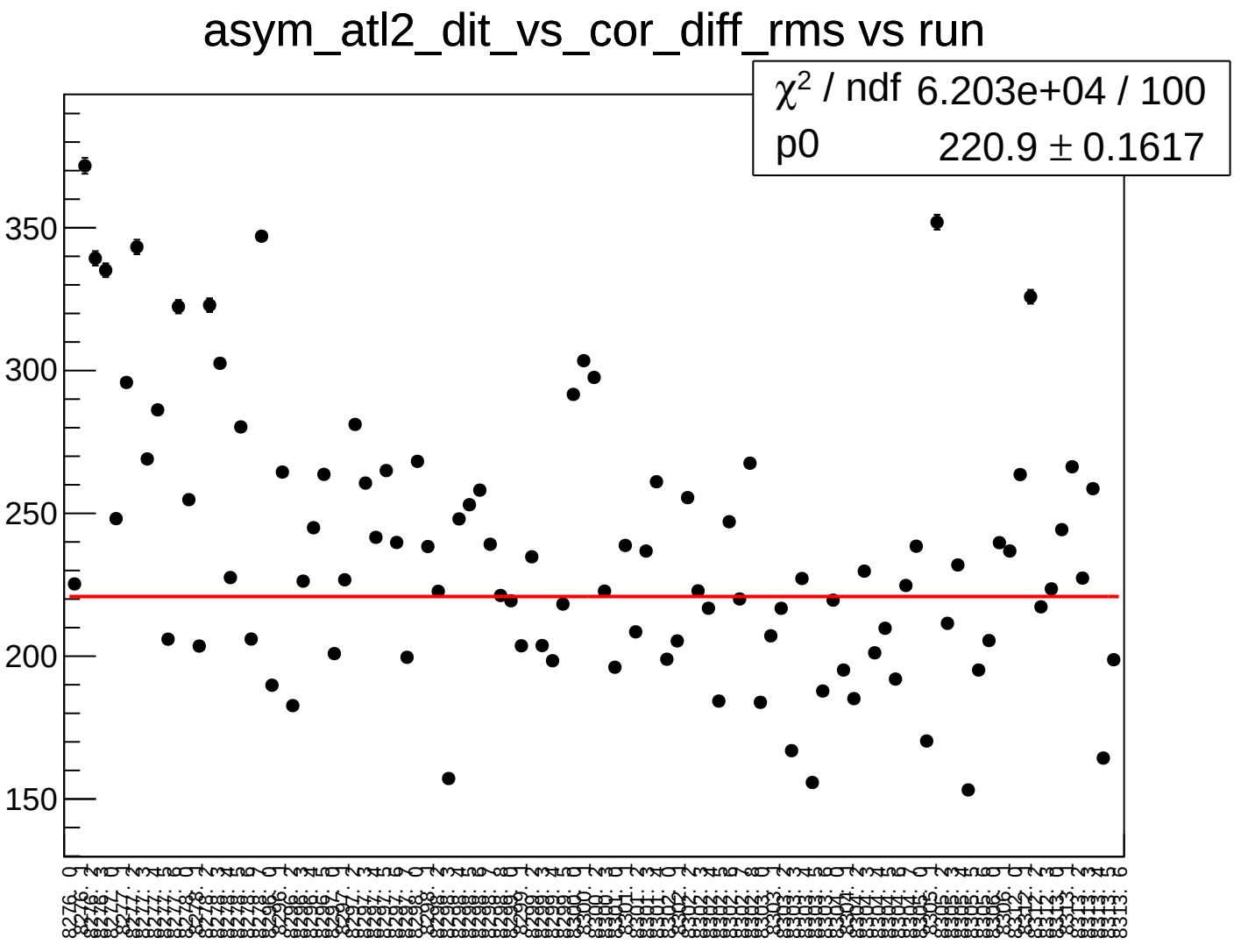

asym_atl2_rms vs run
χ² / ndf 5379 / 100
p0 9540 ± 6.881
12000
11500
11000
10500
10000
9500
9000
8500

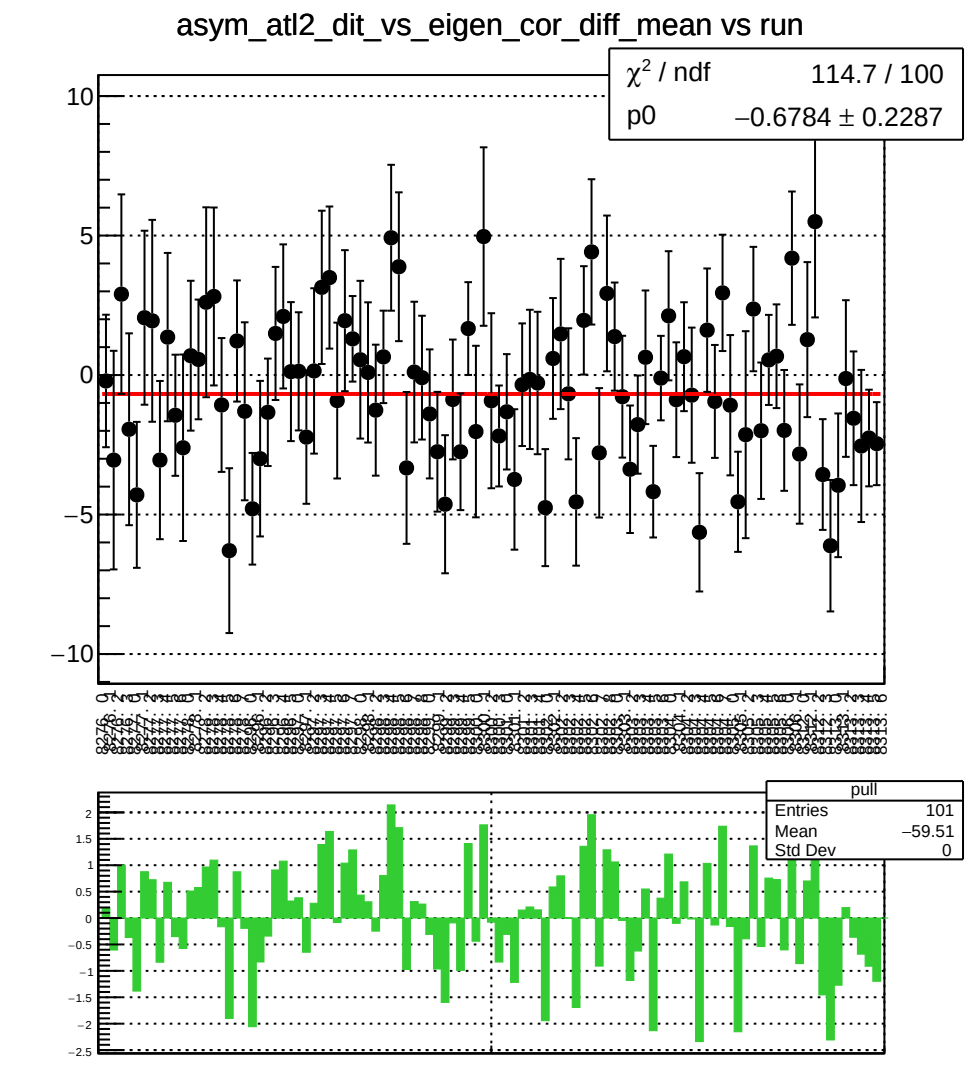

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 130.4 / 100
p0 1.455e−12 ± 8.732e−13
0.05
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 101
Mean 27.19
Std Dev 8.169
4
3
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.1689
Std Dev 1.124
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

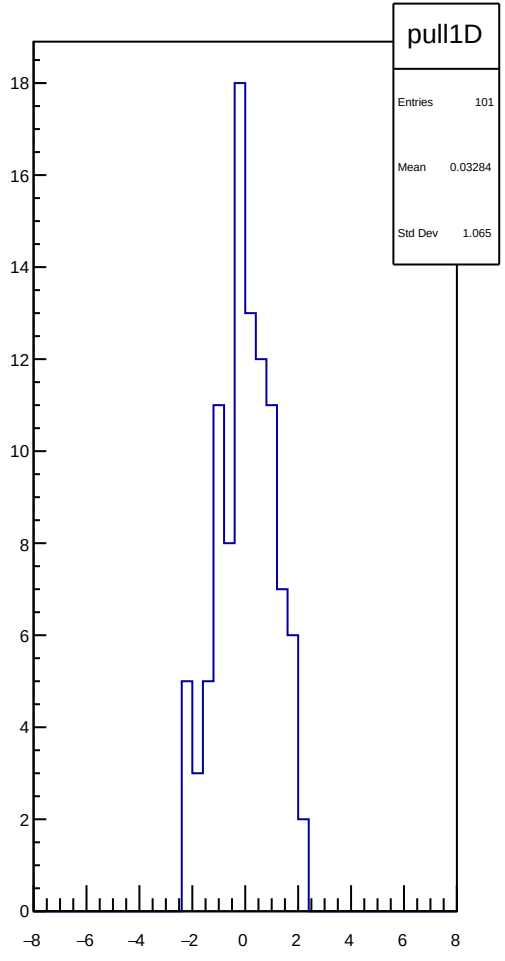

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.291e+06 / 100
p0 4.926e−10 ± 6.174e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

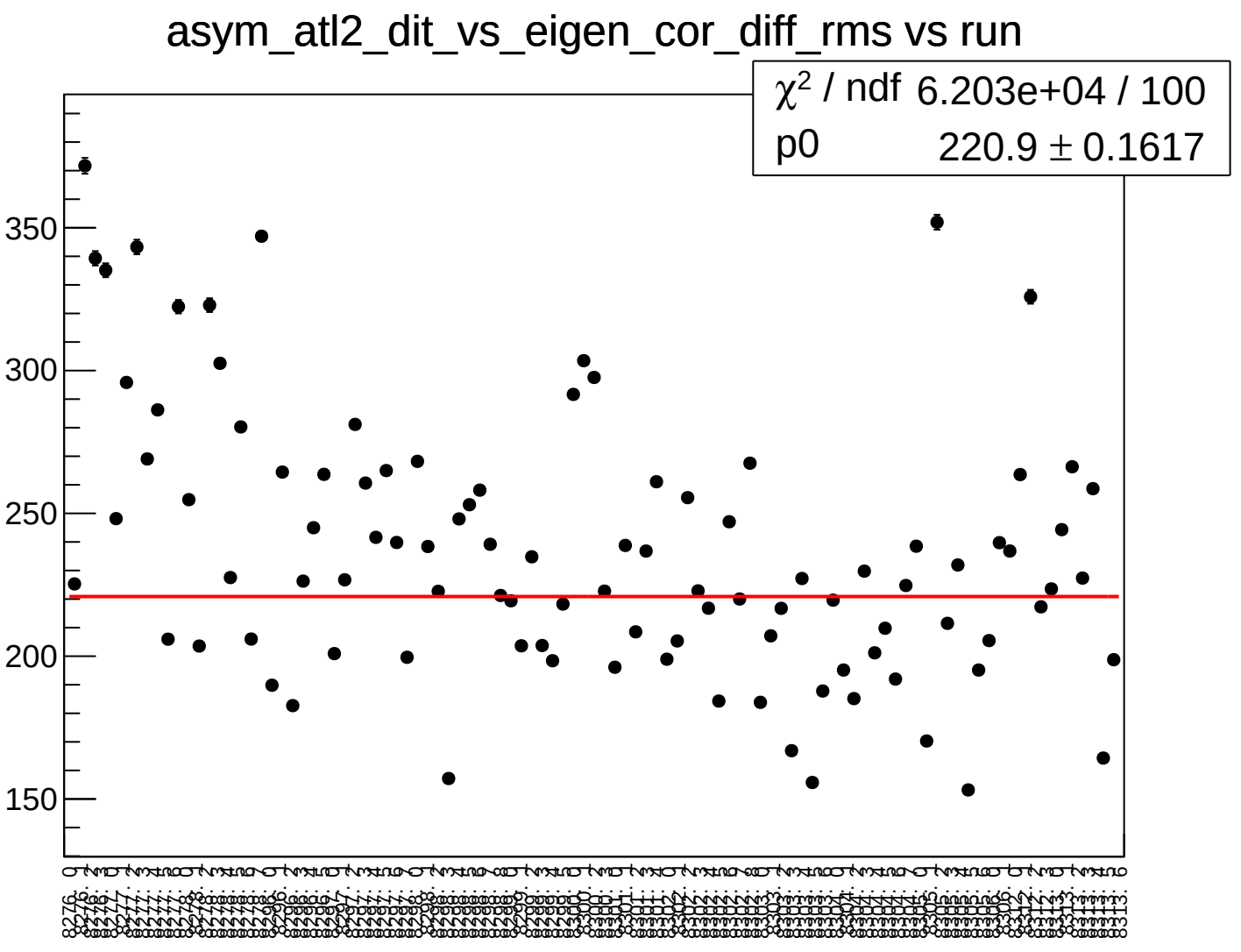

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 114.7 / 100
p0 −0.6784 ± 0.2287
pull
Entries 101
Mean −59.51
Std Dev 0

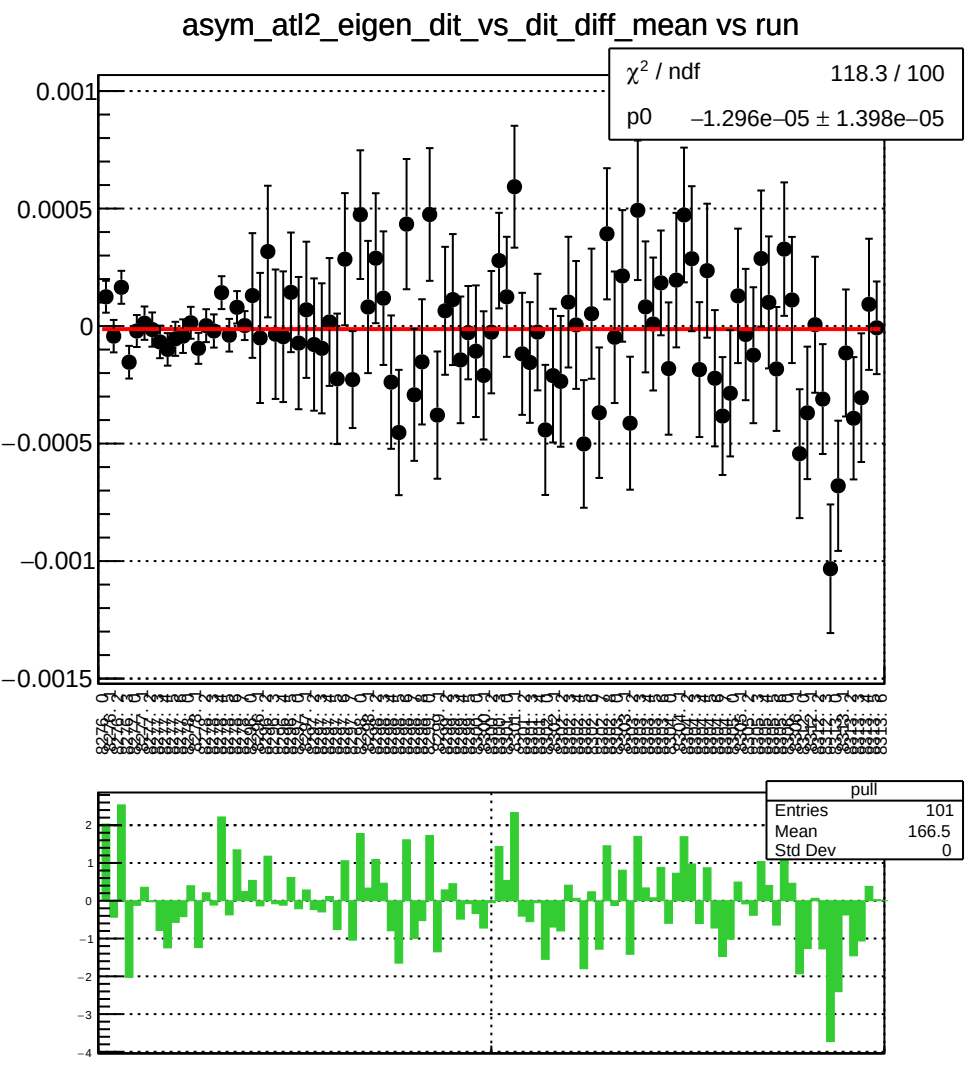

pull1D
Entries 101
Mean 0.03284
Std Dev 1.065

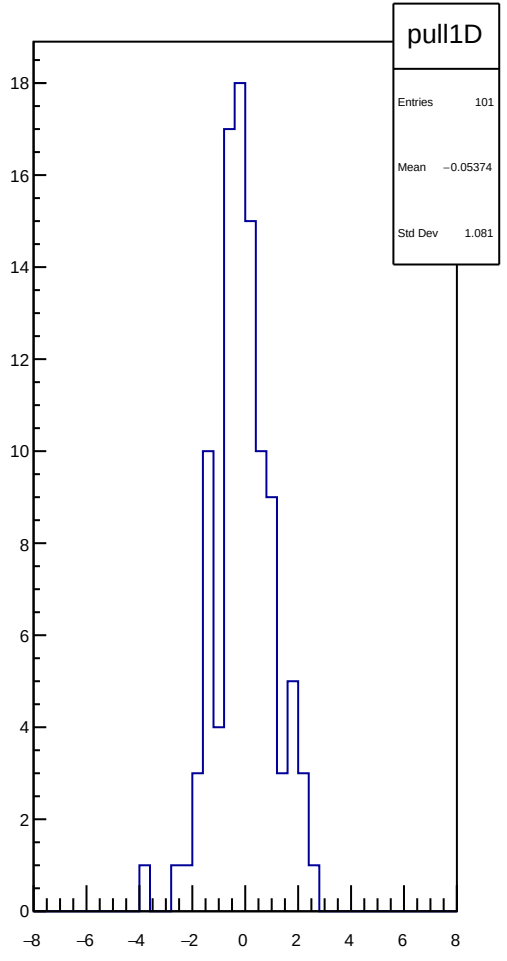

asym_atl2_dit_vs_cor_diff_rms vs run
χ² / ndf 6.203e+04 / 100
p0 220.9 ± 0.1617
350
300
250
200
150

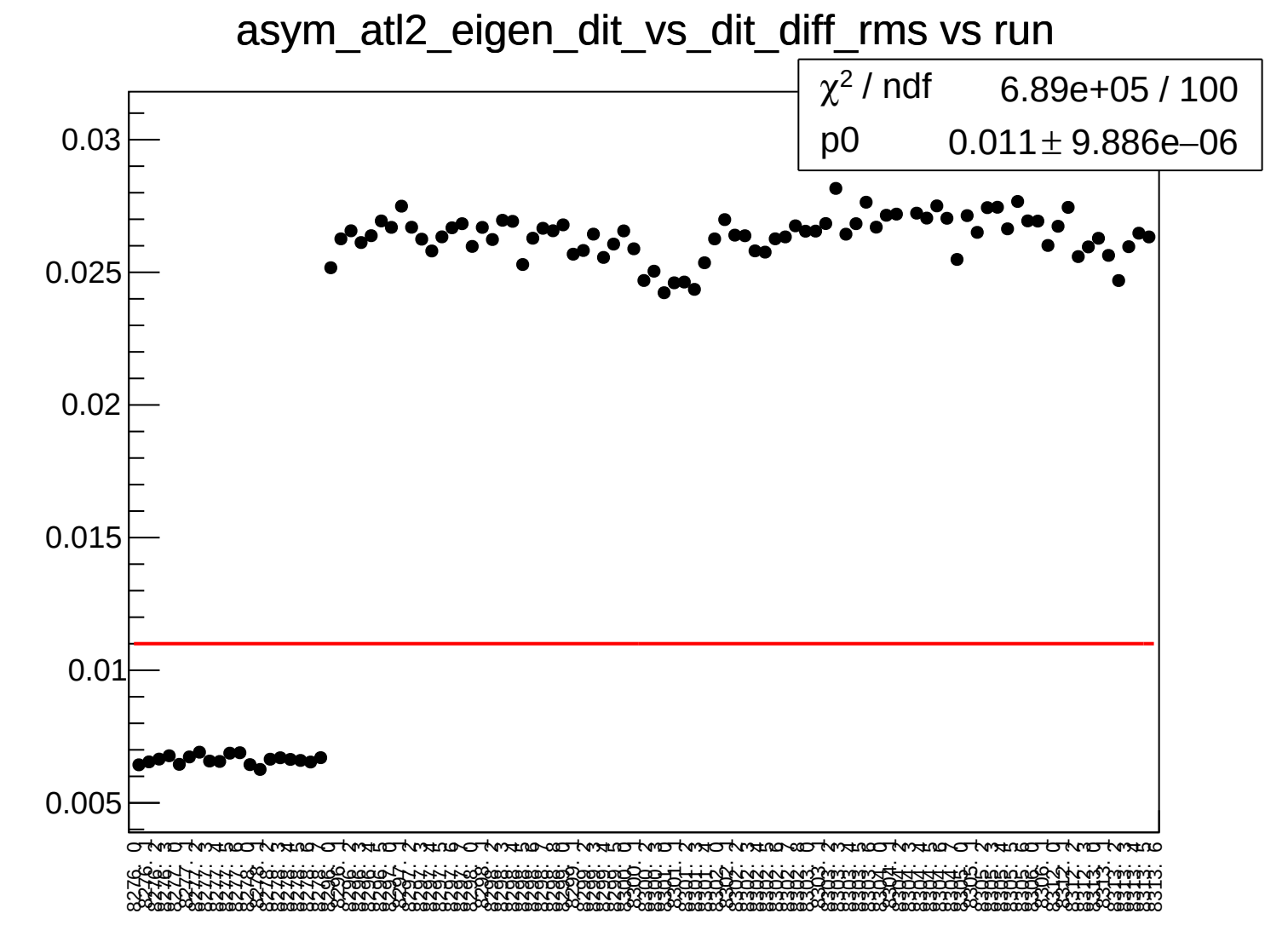

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 114.7 / 100
p0 −0.6784 ± 0.2287
pull
Entries 101
Mean −59.51
Std Dev 0

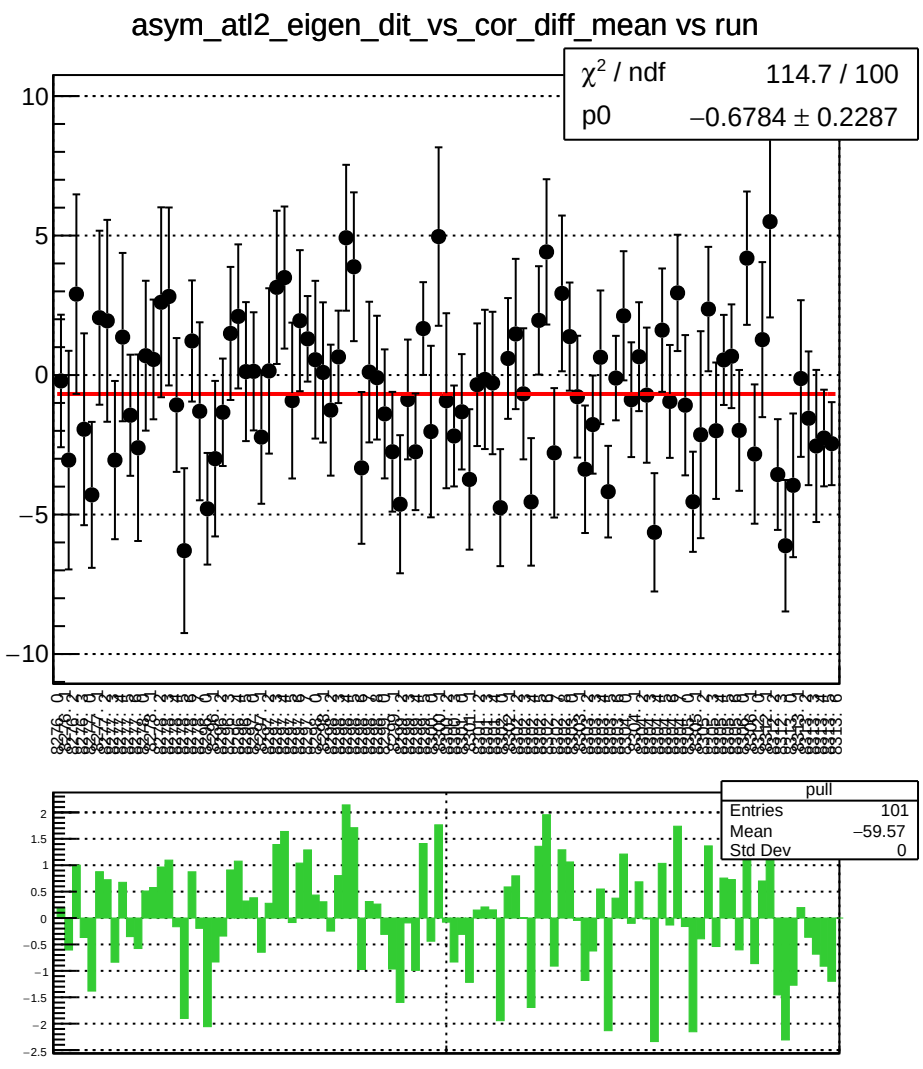

pull1D
Entries 101
Mean 0.03284
Std Dev 1.065

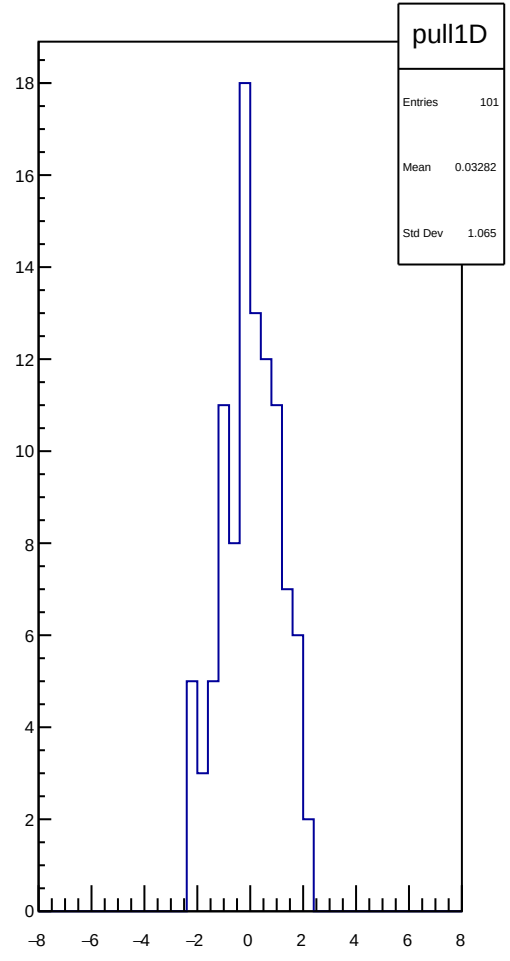

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.203e+04 / 100
p0 220.9 ± 0.1617
350
300
250
200
150

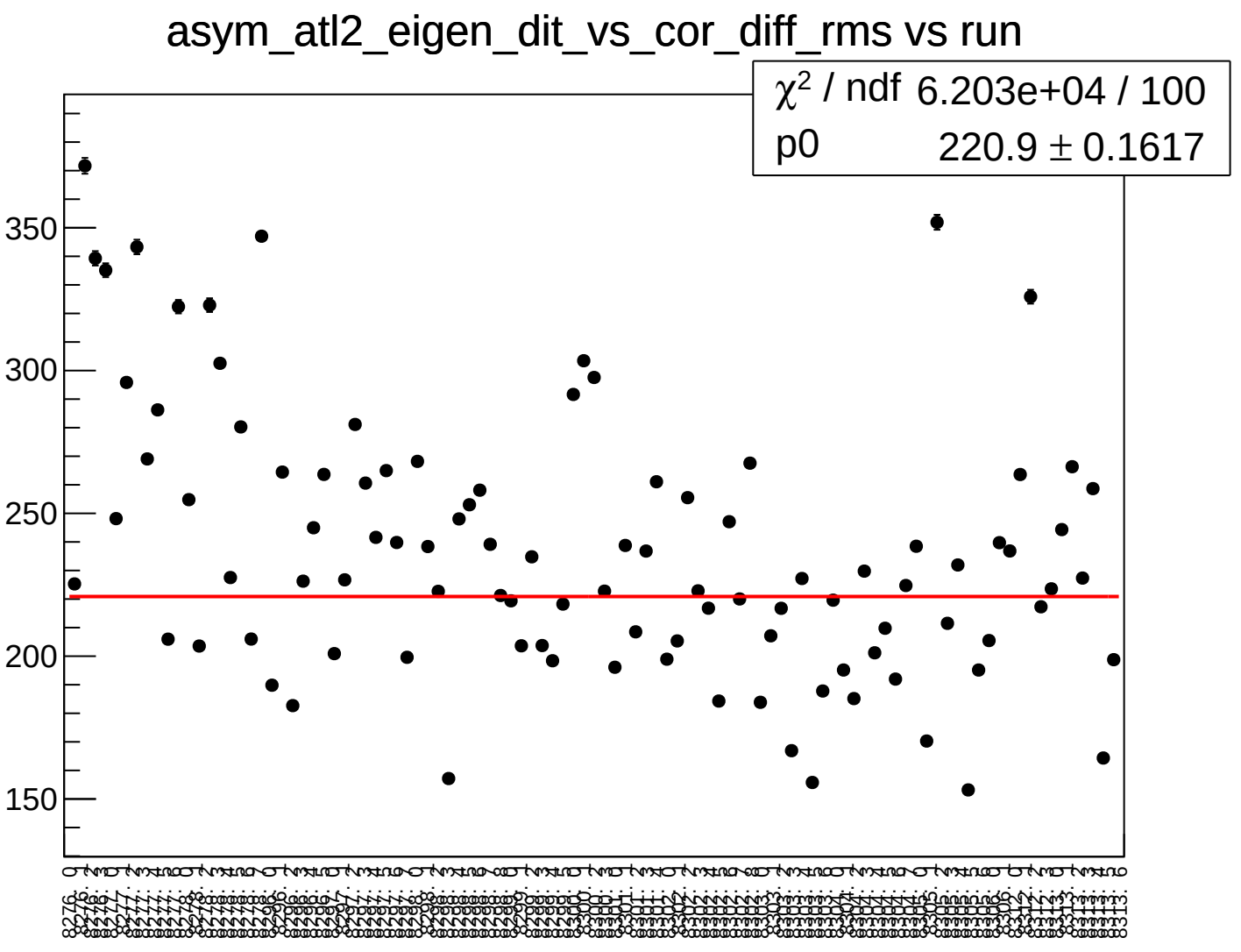

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 118.3 / 100
p0 −1.296e−05 ± 1.398e−05
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 101
Mean 166.5
Std Dev 0
2
1
0
−1
−2
−3
−4

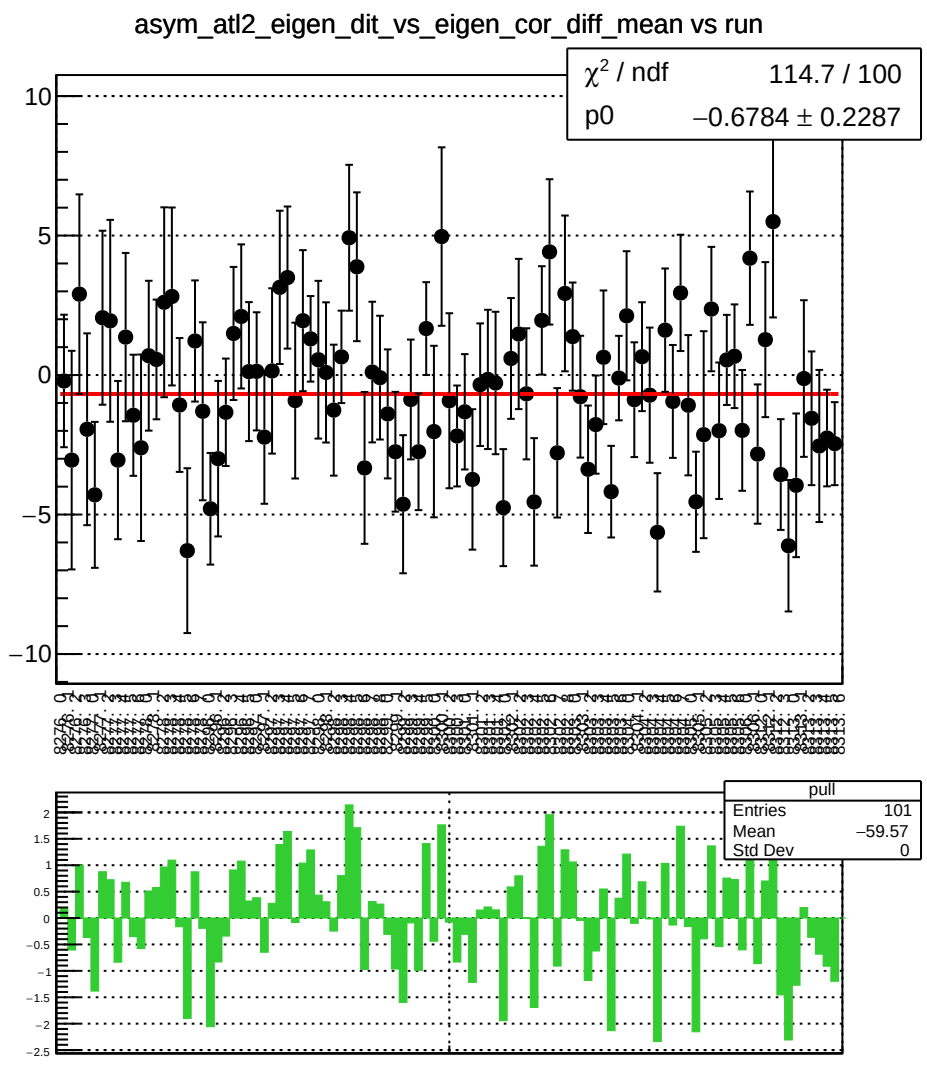

pull1D
Entries 101
Mean −0.05374
Std Dev 1.081
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

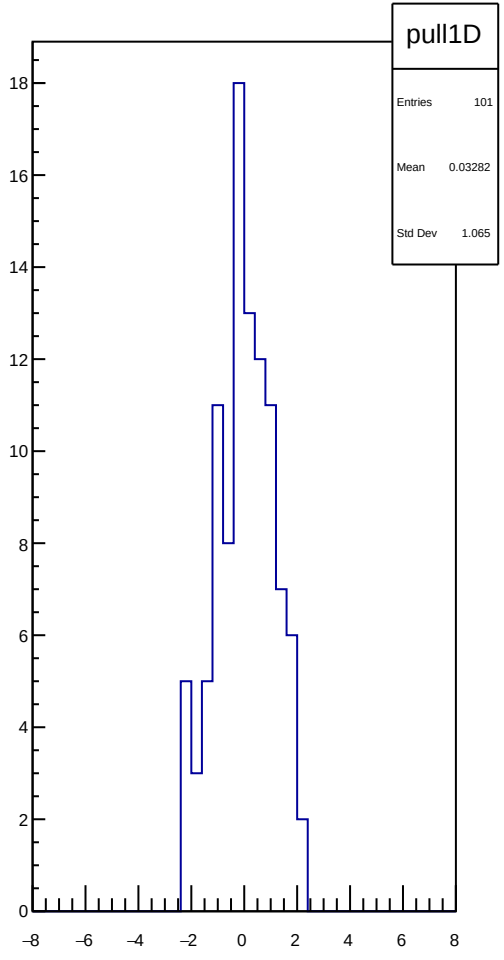

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.89e+05 / 100
p0 0.011 ± 9.886e−06
0.03
0.025
0.02
0.015
0.01
0.005

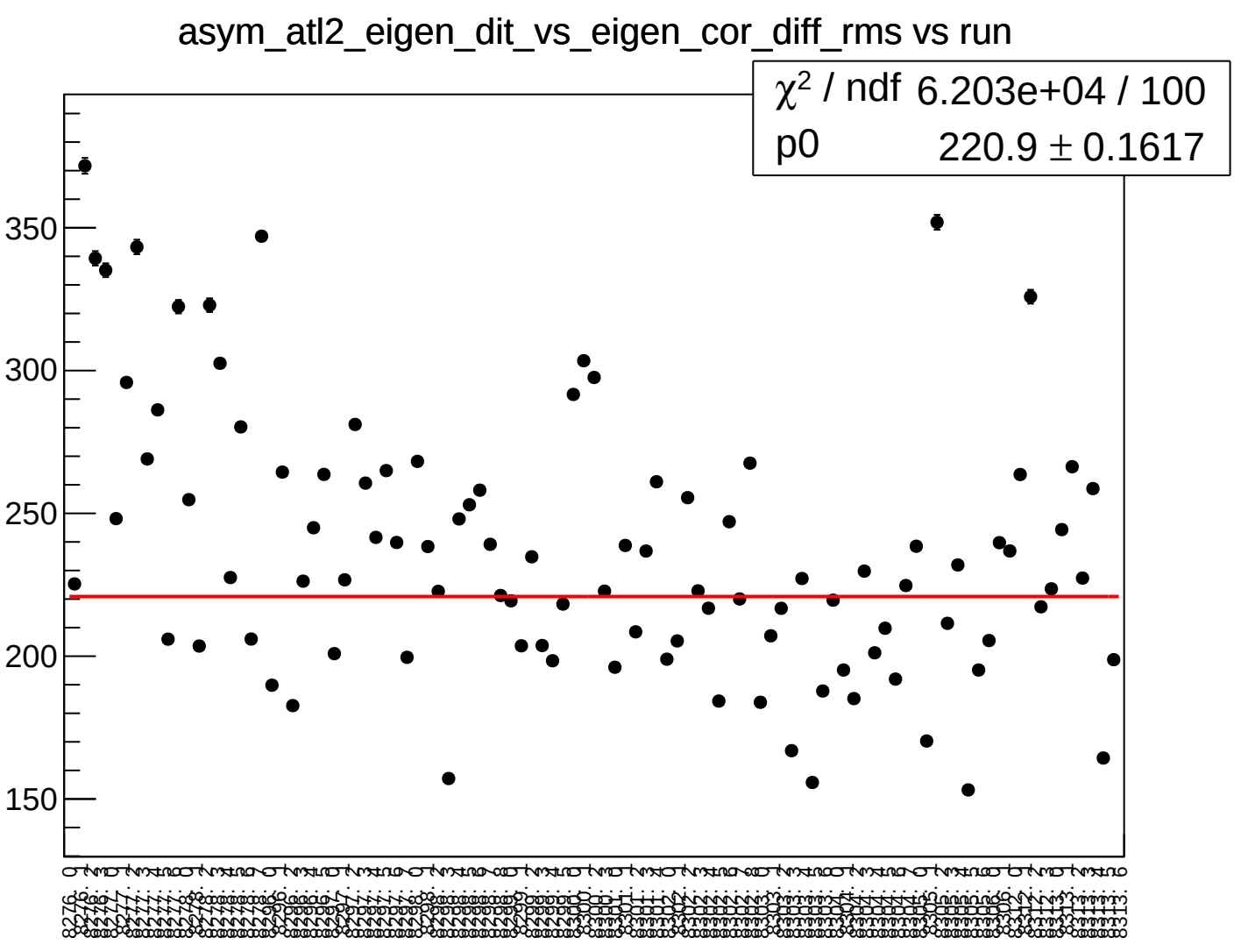

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 114.7 / 100
p0 −0.6784 ± 0.2287
pull
Entries 101
Mean −59.57
Std Dev 0

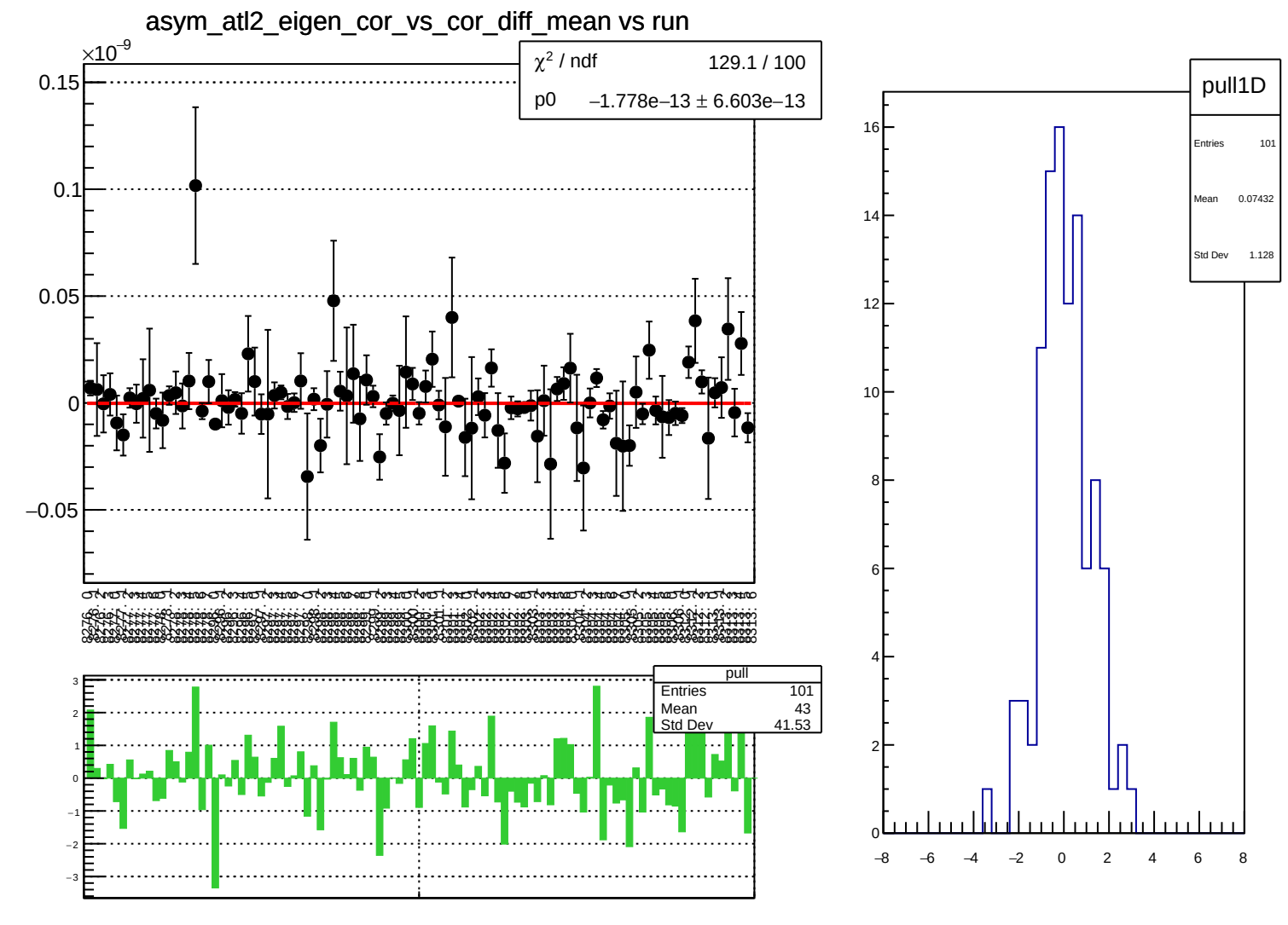

pull1D
Entries 101
Mean 0.03282
Std Dev 1.065

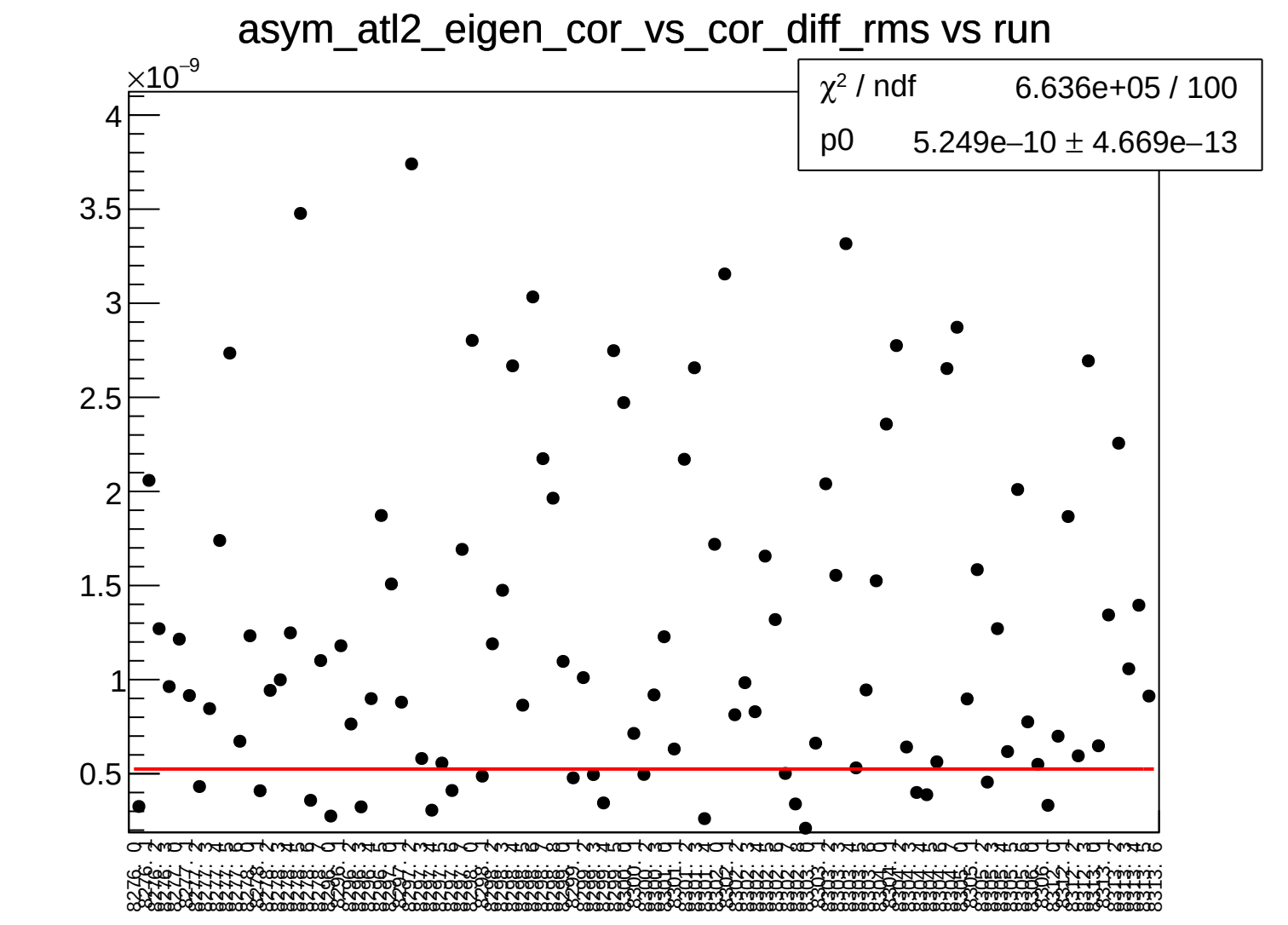

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.203e+04 / 100
p0 220.9 ± 0.1617
350
300
250
200
150

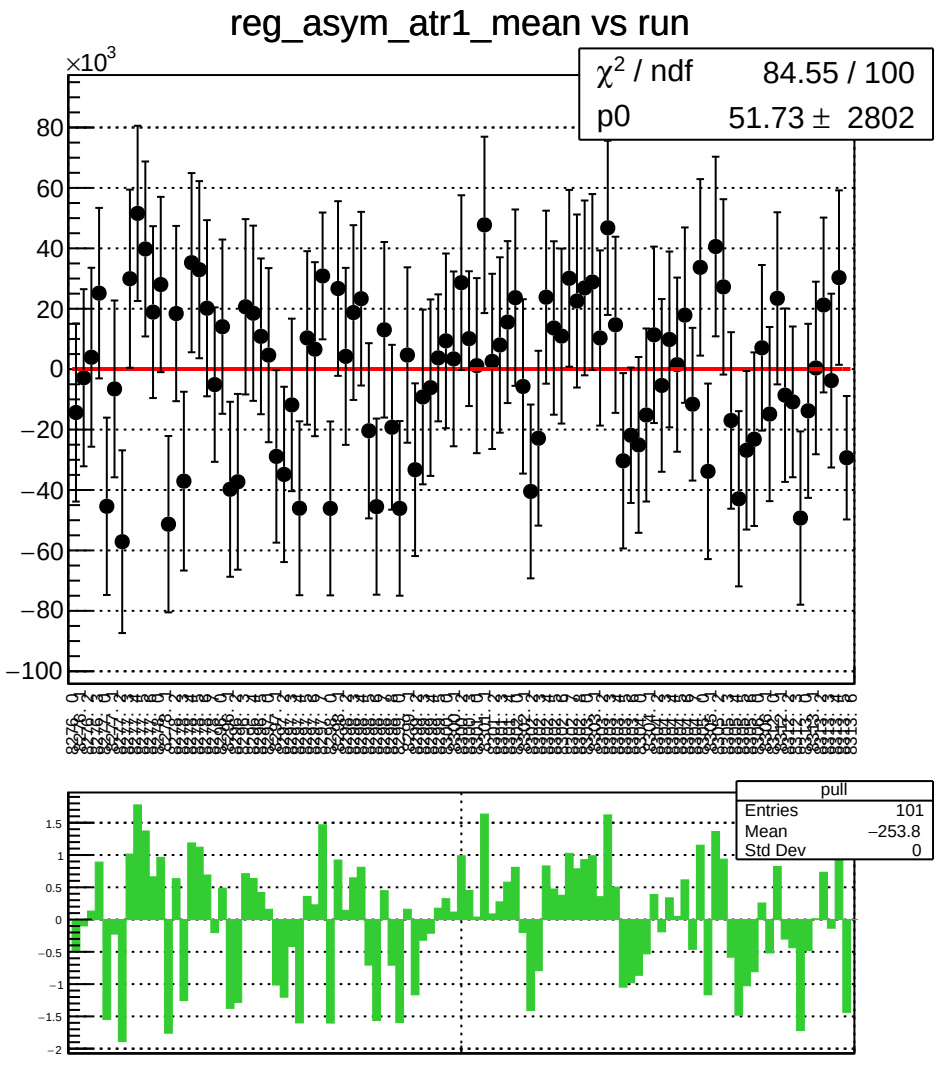

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 114.7 / 100
p0 −0.6784 ± 0.2287
pull
Entries 101
Mean −59.57
Std Dev 0

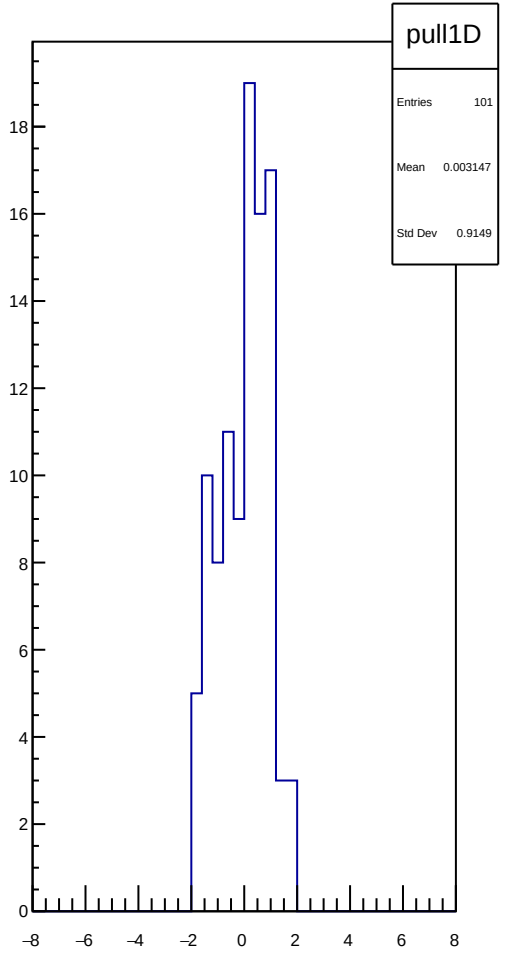

pull1D
Entries 101
Mean 0.03282
Std Dev 1.065

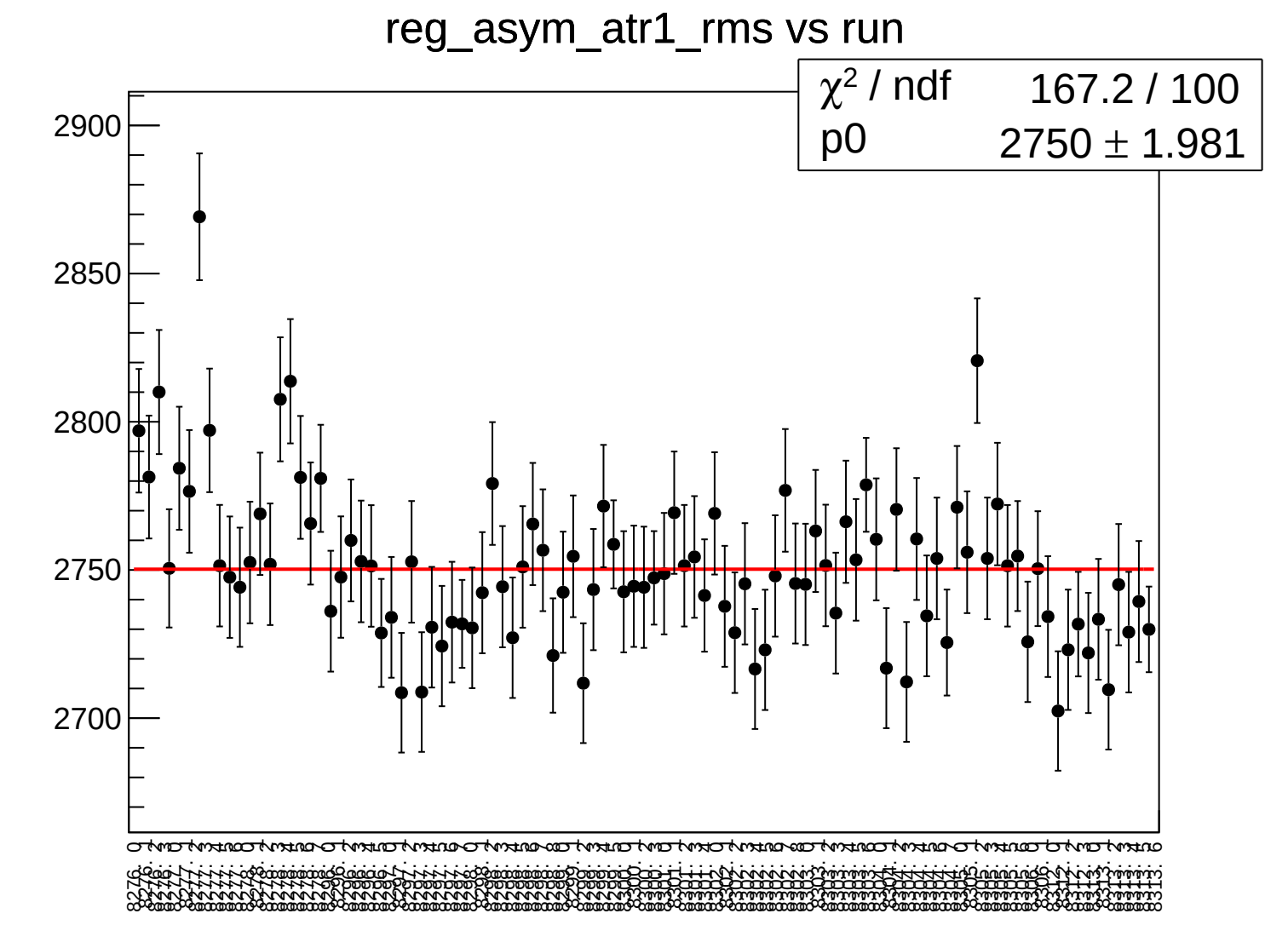

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.203e+04 / 100
p0 220.9 ± 0.1617
350
300
250
200
150

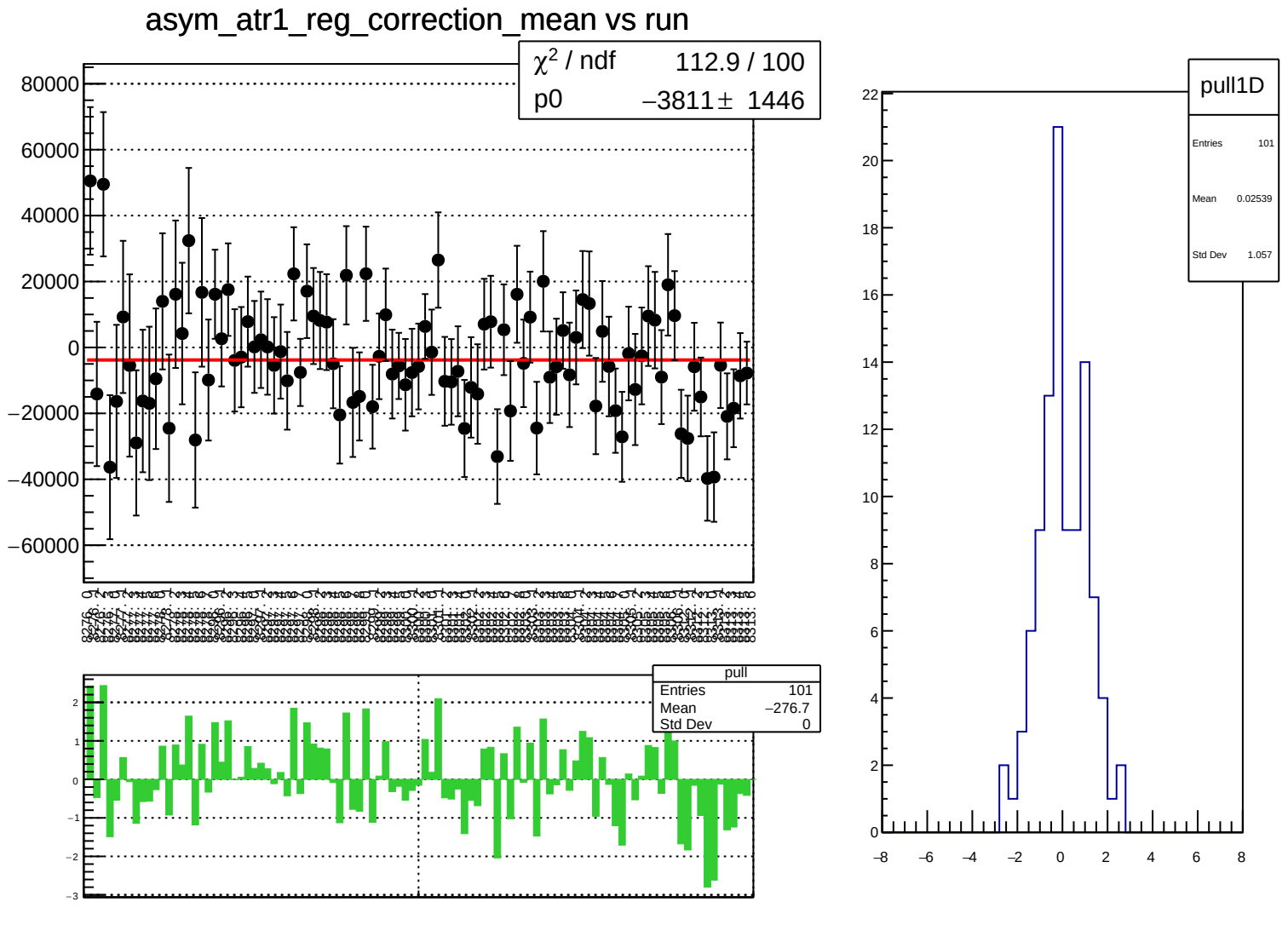

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 129.1 / 100
p0 −1.778e−13 ± 6.603e−13
0.15
0.1
0.05
0
−0.05
pull
Entries 101
Mean 43
Std Dev 41.53
3
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.07432
Std Dev 1.128
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

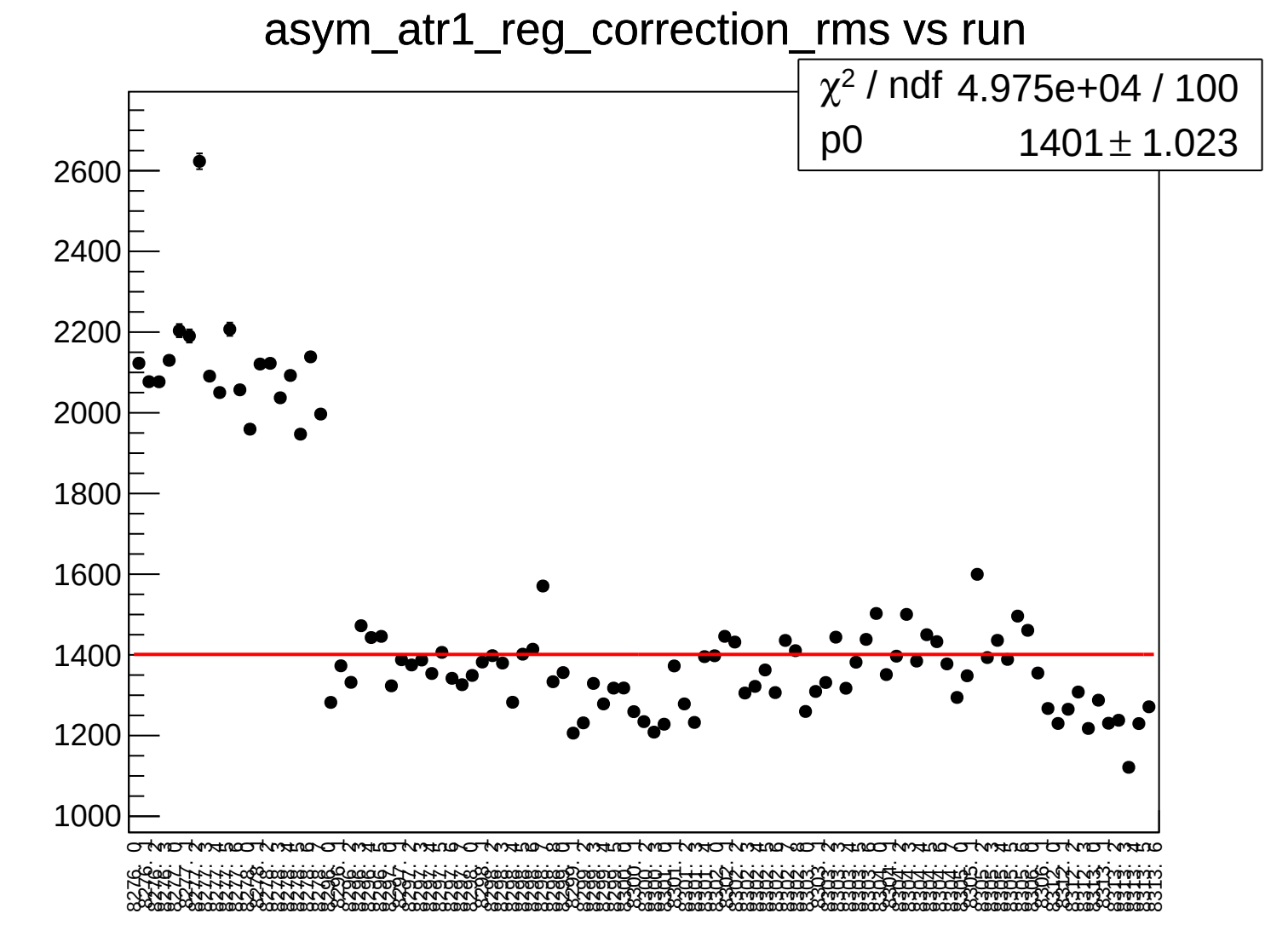

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.636e+05 / 100
p0 5.249e−10 ± 4.669e−13
4
3.5
3
2.5
2
1.5
1
0.5

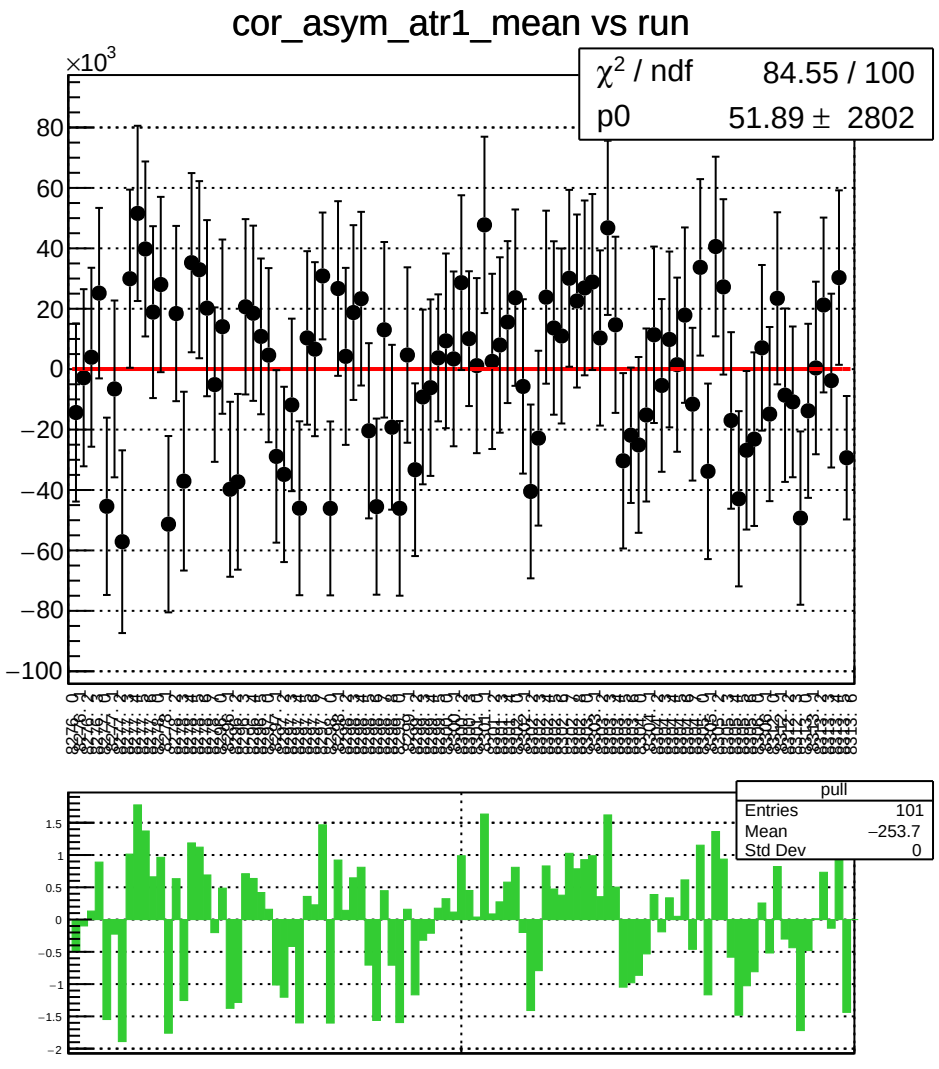

reg_asym_atr1_mean vs run
×10^3
χ^2 / ndf 84.55 / 100
p0 51.73 ± 2802
80
60
40
20
0
−20
−40
−60
−80
−100
pull
Entries 101
Mean −253.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

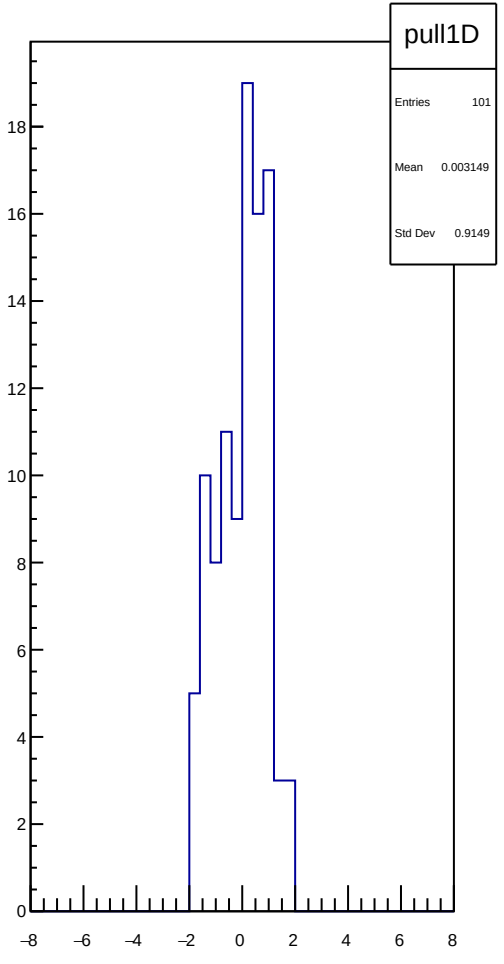

pull1D
Entries 101
Mean 0.003147
Std Dev 0.9149
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

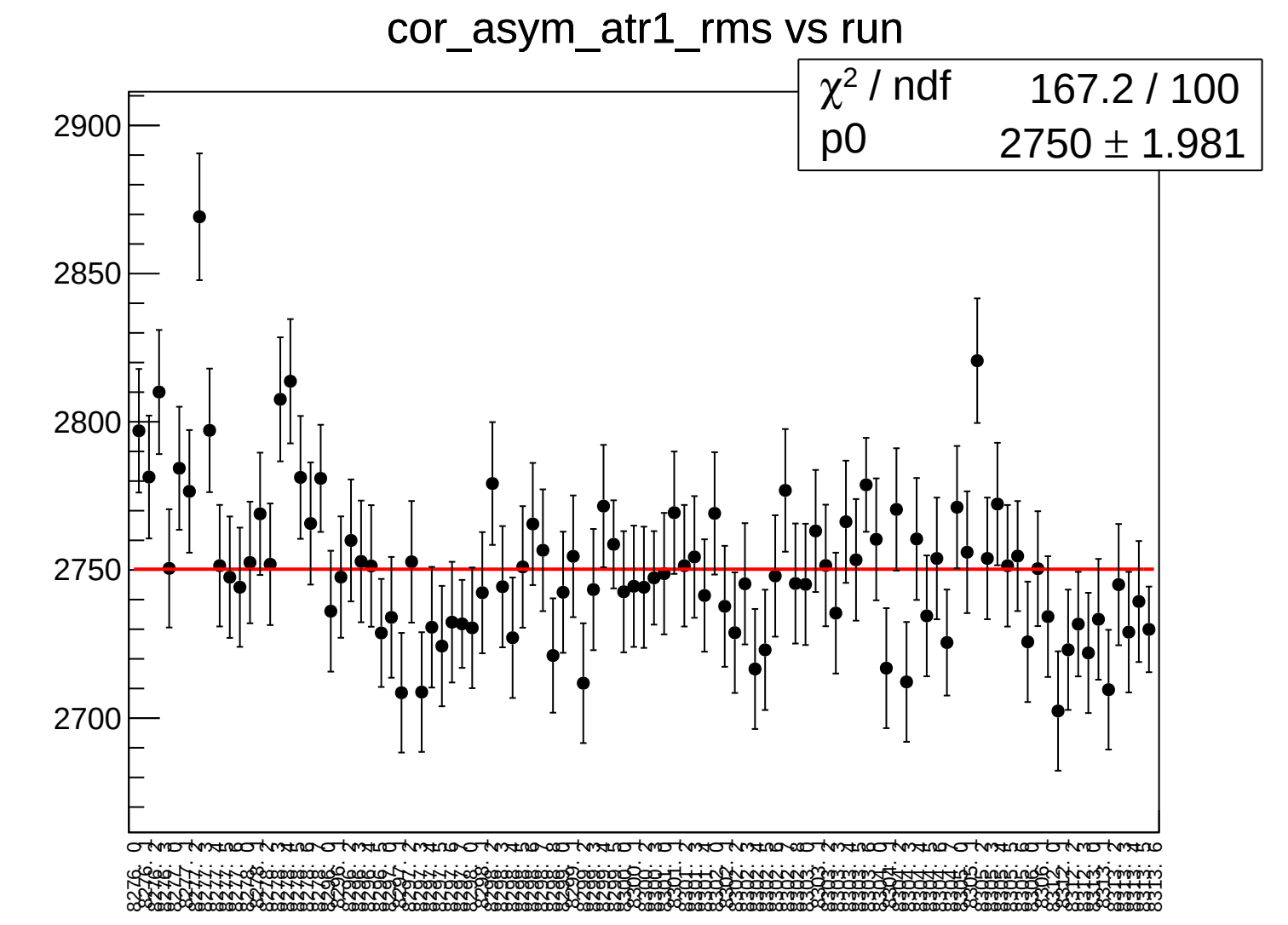

reg_asym_atr1_rms vs run
χ^2 / ndf 167.2 / 100
p0 2750 ± 1.981
2900
2850
2800
2750
2700

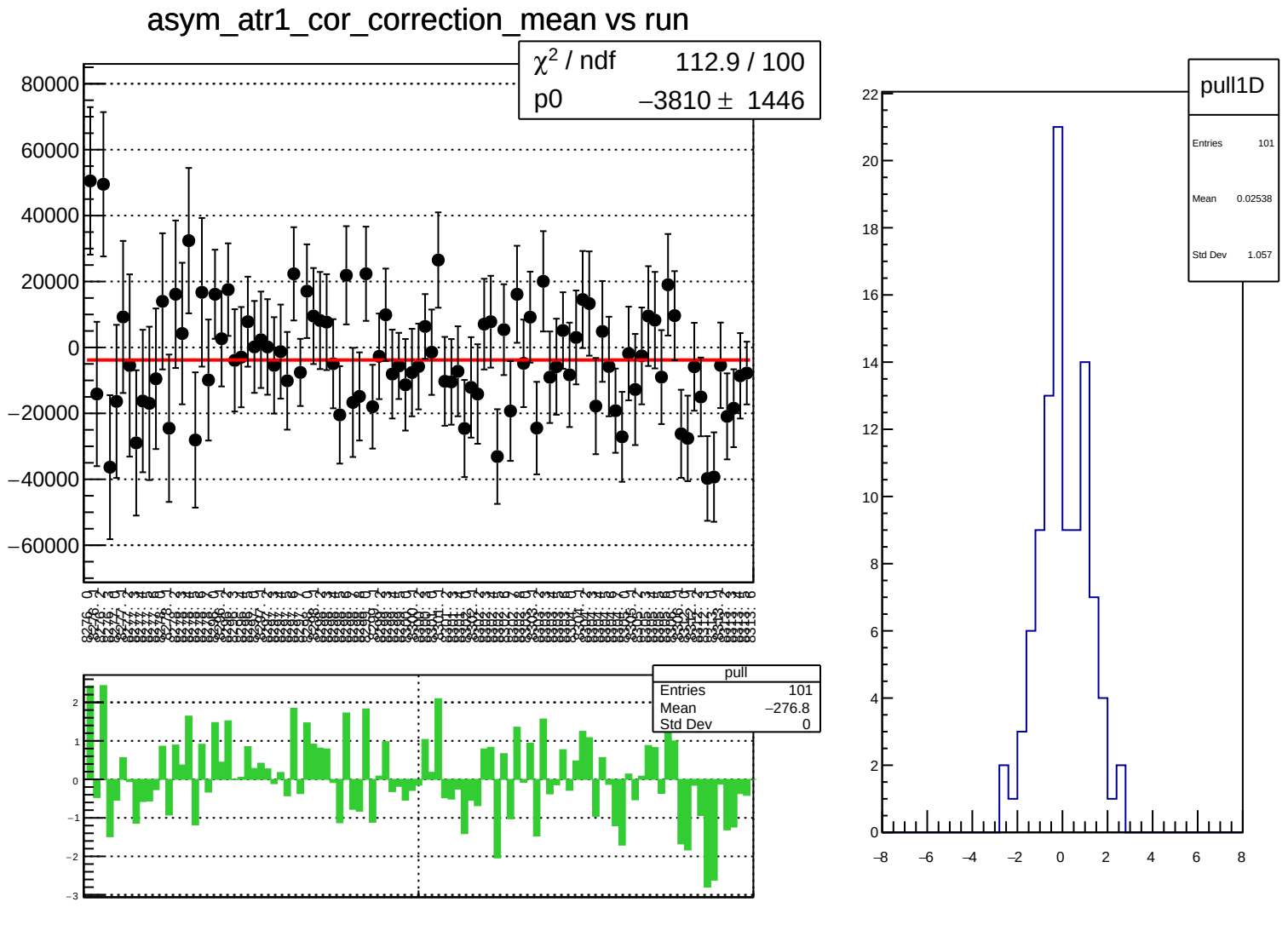

asym_atr1_reg_correction_mean vs run
χ² / ndf 112.9 / 100
p0 −3811 ± 1446
pull
Entries 101
Mean −276.7
Std Dev 0
pull1D
Entries 101
Mean 0.02539
Std Dev 1.057

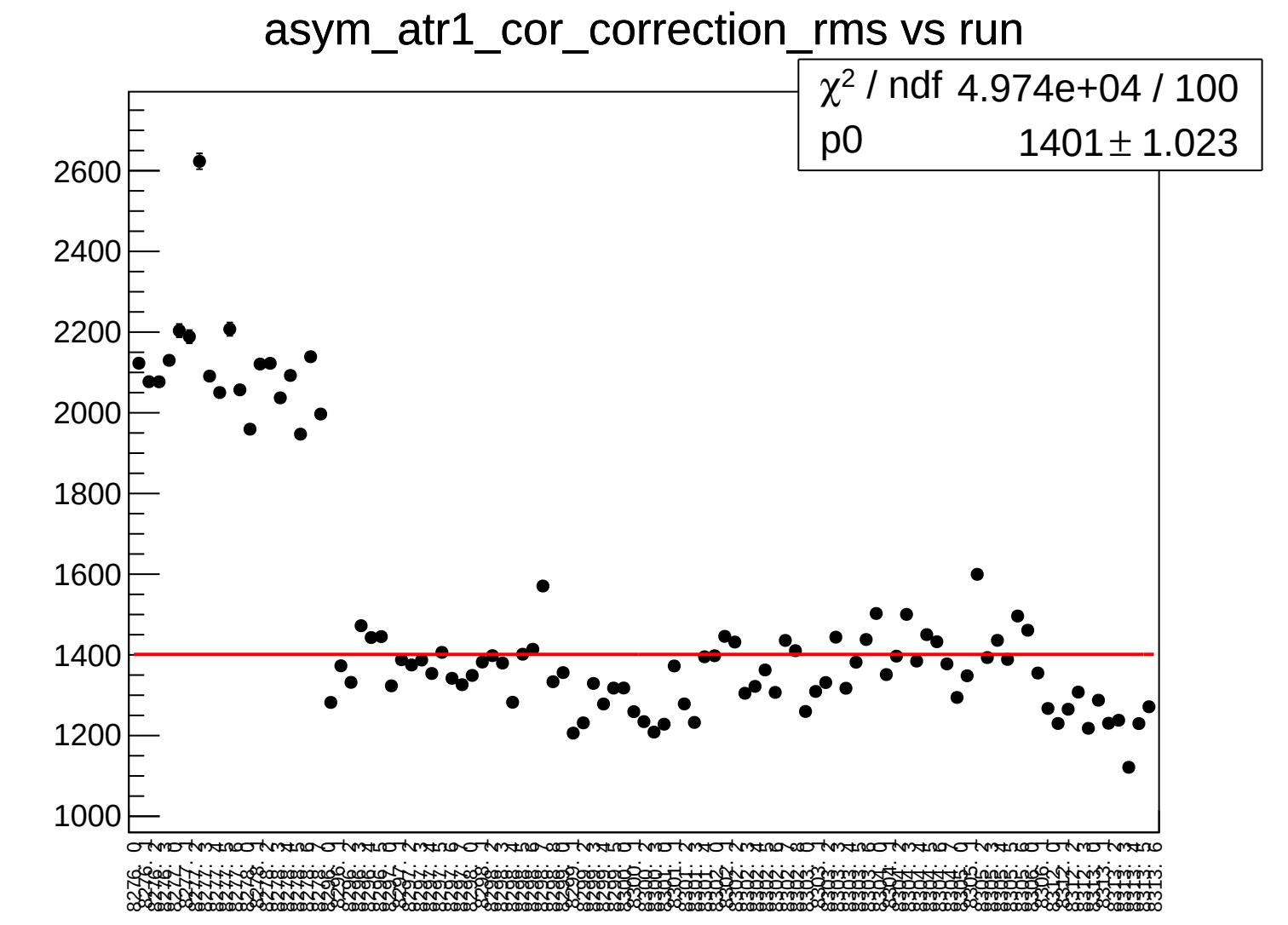

asym_atr1_reg_correction_rms vs run
χ² / ndf 4.975e+04 / 100
p0 1401 ± 1.023
2600
2400
2200
2000
1800
1600
1400
1200
1000

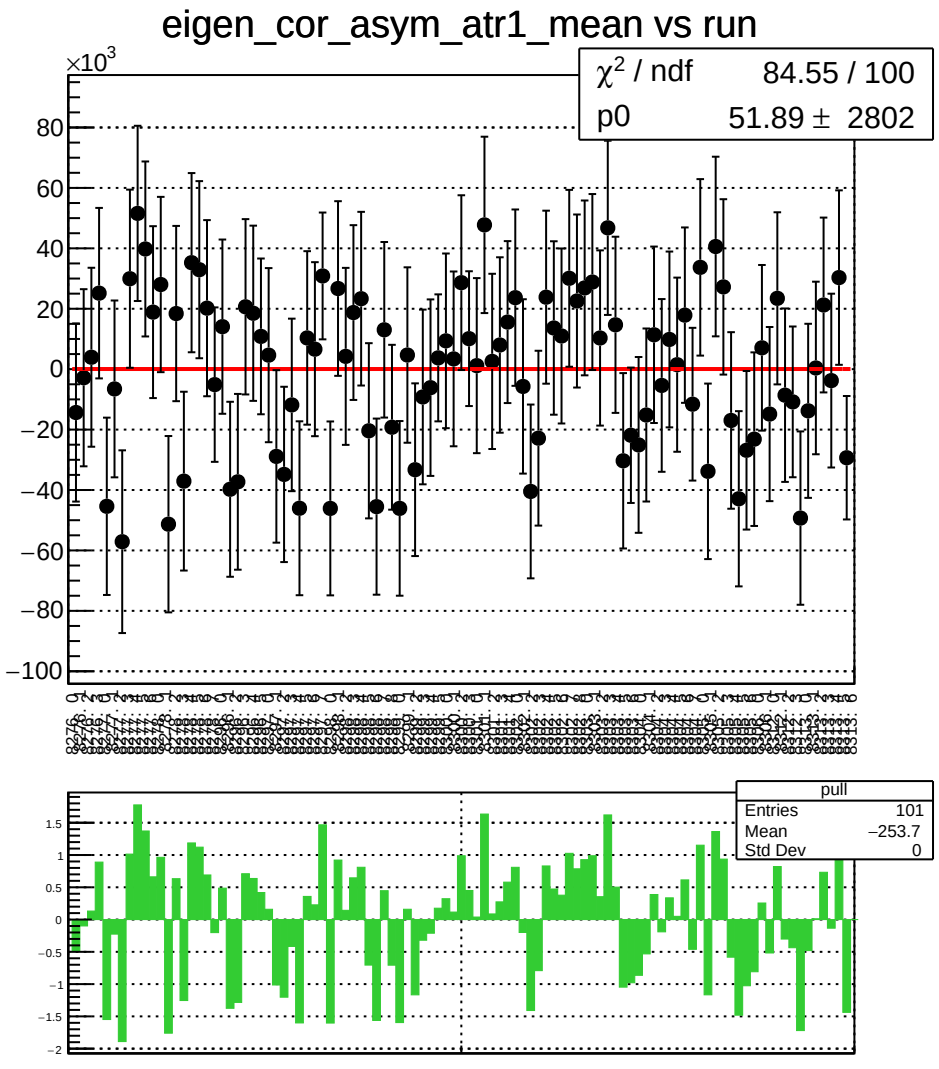

cor_asym_atr1_mean vs run
×10^3
χ^2 / ndf 84.55 / 100
p0 51.89 ± 2802
pull
Entries 101
Mean −253.7
Std Dev 0

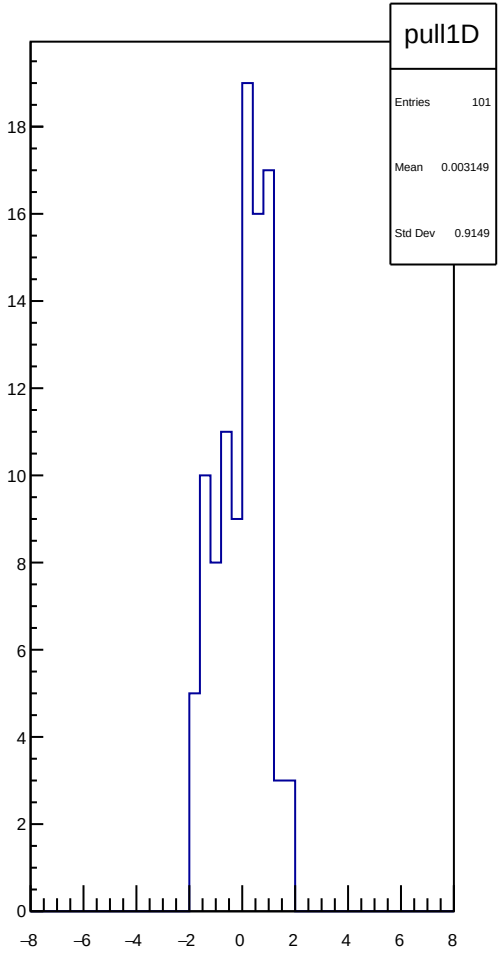

pull1D
Entries 101
Mean 0.003149
Std Dev 0.9149

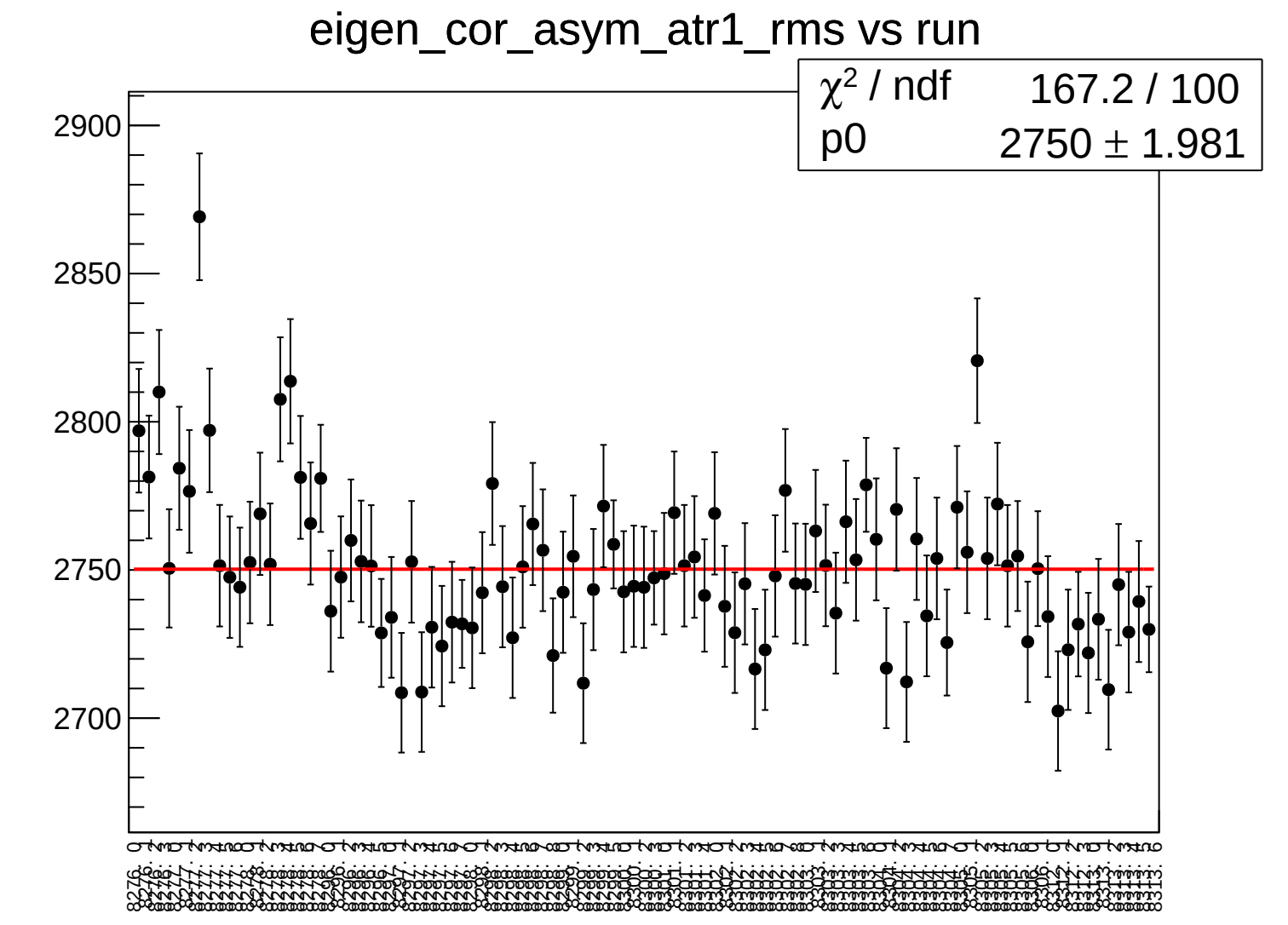

cor_asym_atr1_rms vs run
χ² / ndf 167.2 / 100
p0 2750 ± 1.981
2900
2850
2800
2750
2700

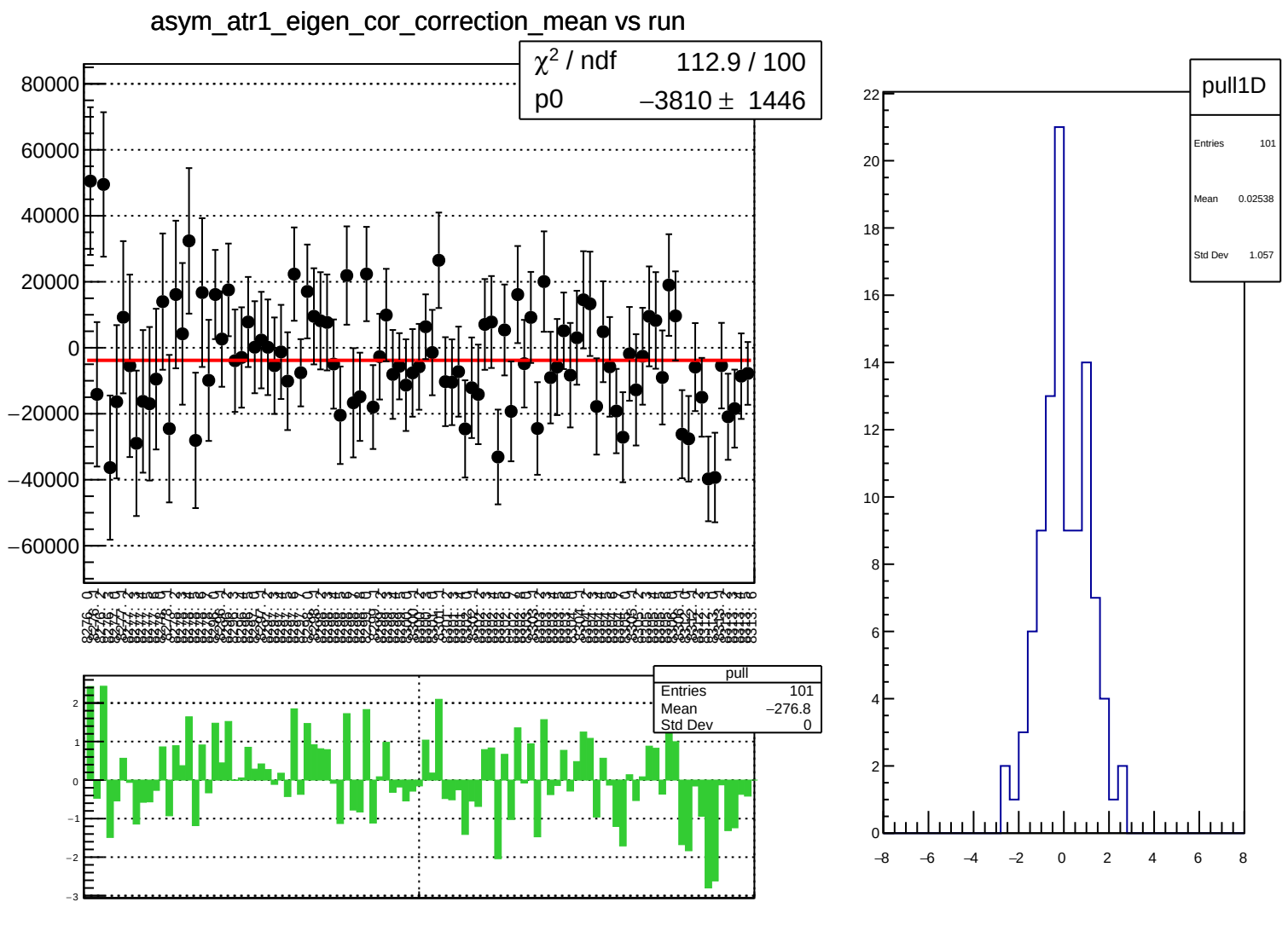

asym_atr1_cor_correction_mean vs run
χ² / ndf 112.9 / 100
p0 −3810 ± 1446
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −276.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.02538
Std Dev 1.057
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

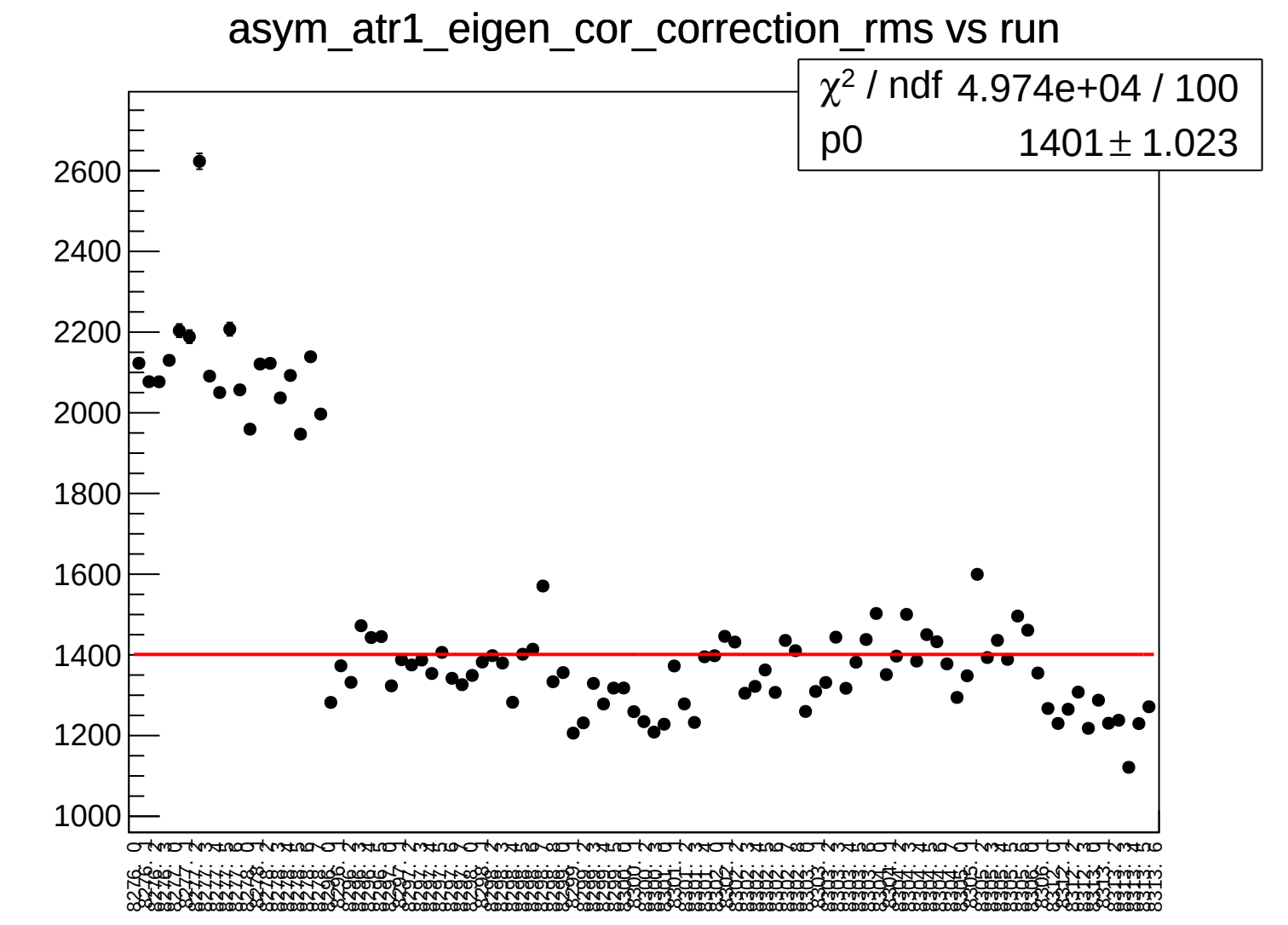

asym_atr1_cor_correction_rms vs run
χ² / ndf 4.974e+04 / 100
p0 1401 ± 1.023
2600
2400
2200
2000
1800
1600
1400
1200
1000

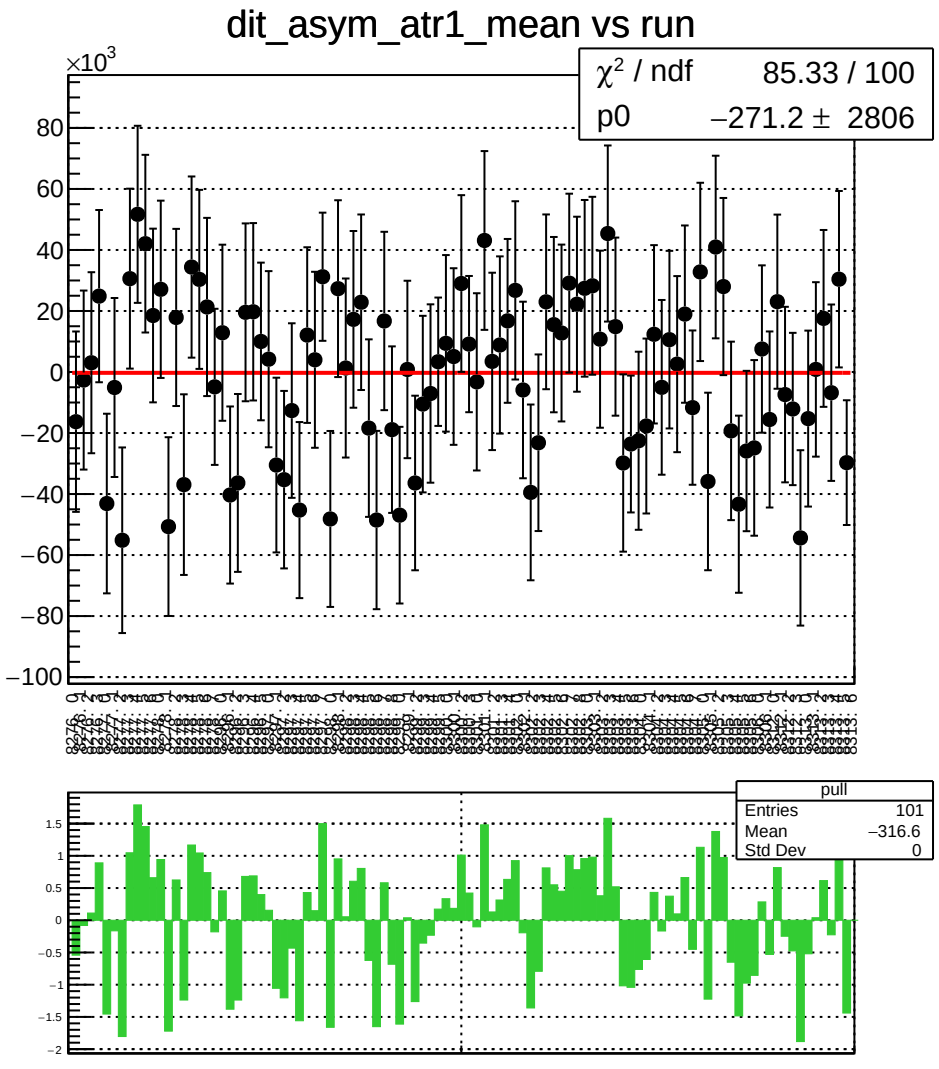

eigen_cor_asym_atr1_mean vs run
×10^3
χ^2 / ndf 84.55 / 100
p0 51.89 ± 2802
pull
Entries 101
Mean −253.7
Std Dev 0

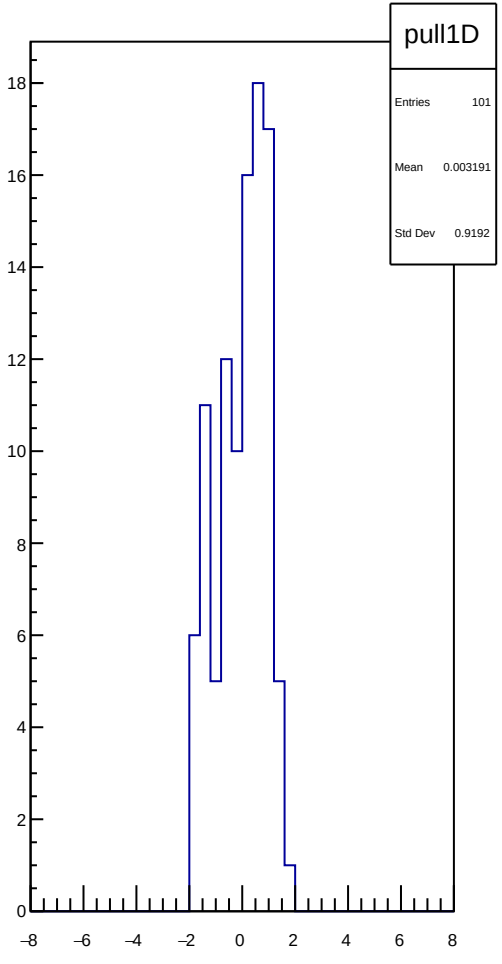

pull1D
Entries 101
Mean 0.003149
Std Dev 0.9149

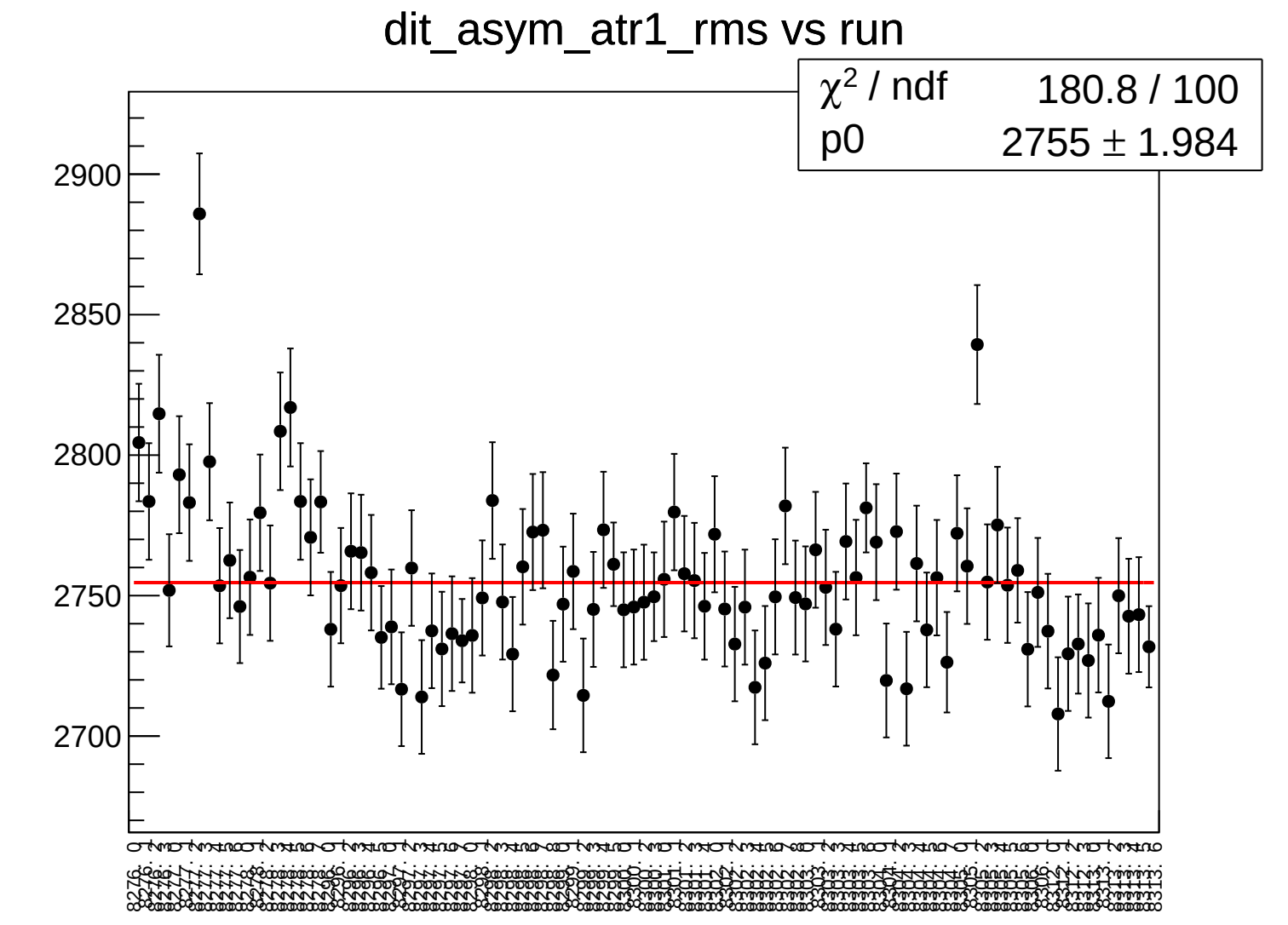

eigen_cor_asym_atr1_rms vs run
χ² / ndf 167.2 / 100
p0 2750 ± 1.981
2900
2850
2800
2750
2700

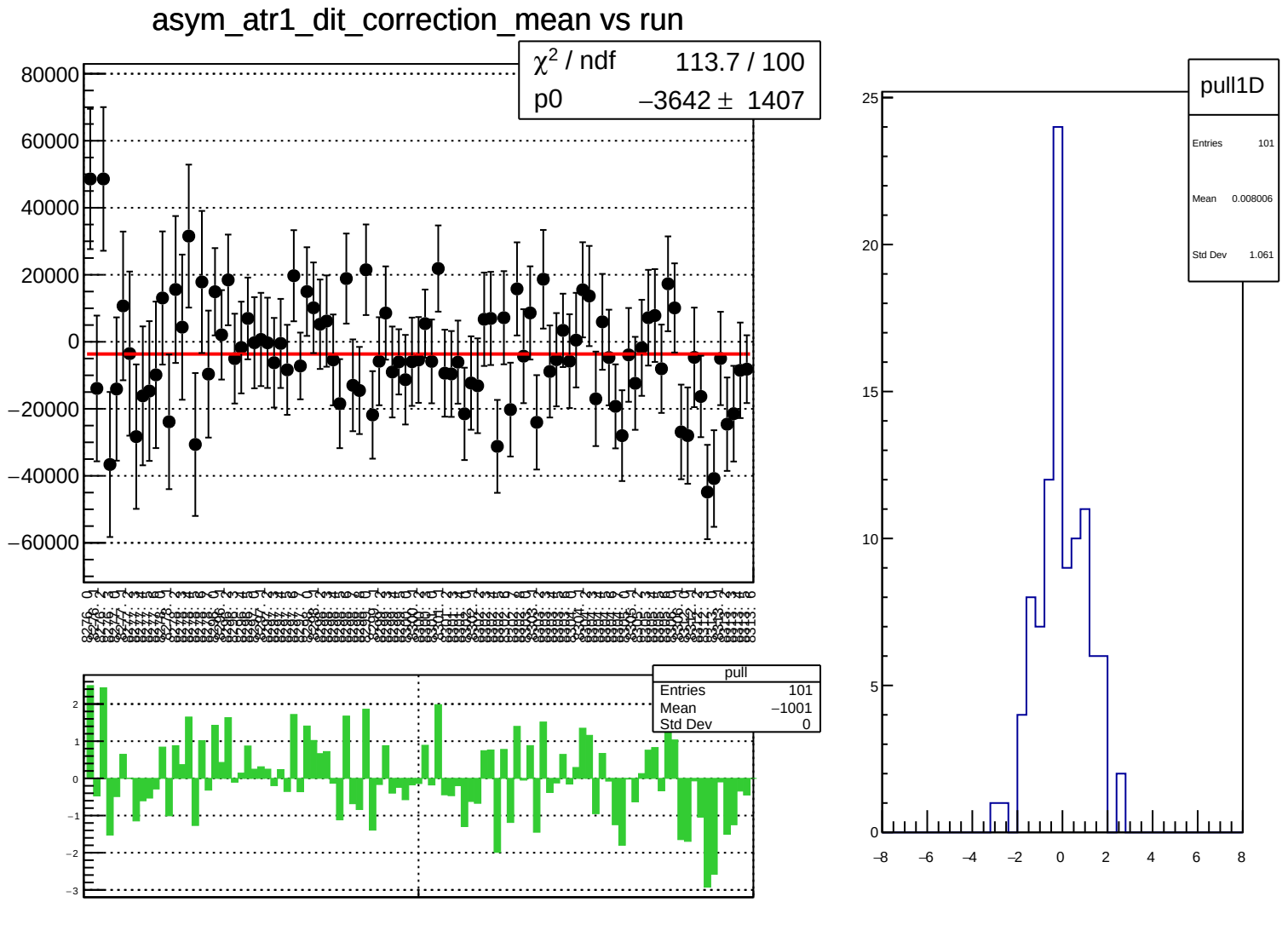

asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 112.9 / 100
p0 −3810 ± 1446
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −276.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.02538
Std Dev 1.057
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

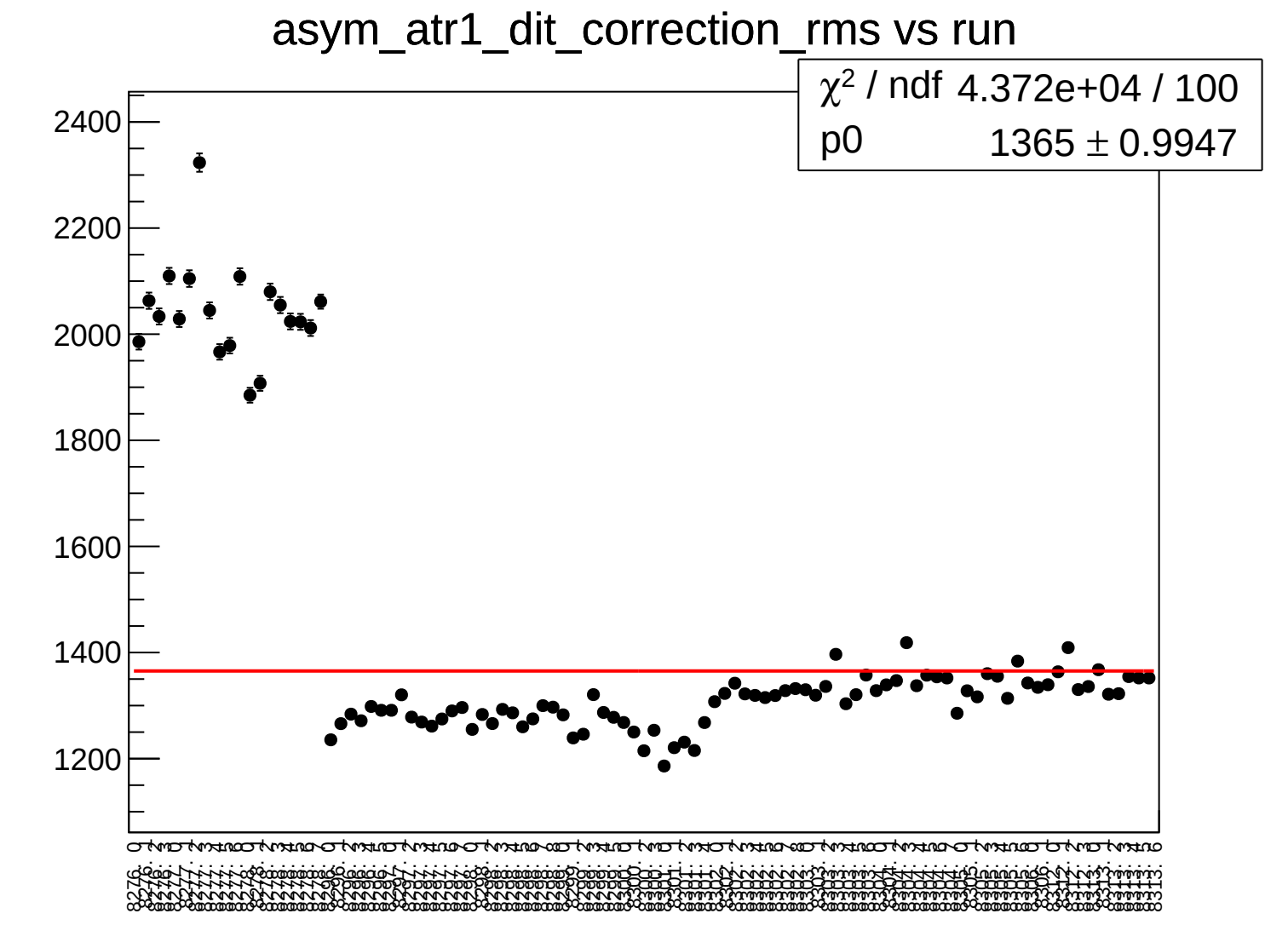

asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 4.974e+04 / 100
p0 1401 ± 1.023
2600
2400
2200
2000
1800
1600
1400
1200
1000

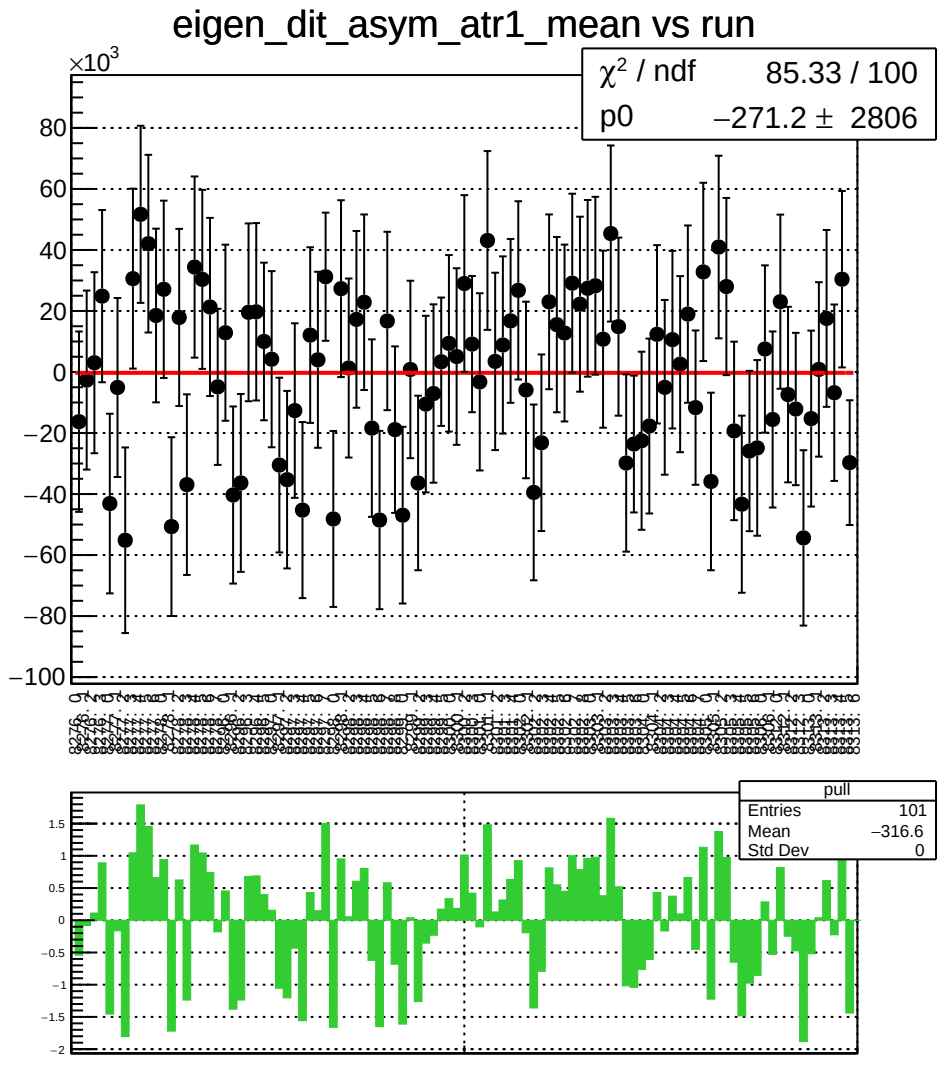

dit_asym_atr1_mean vs run
×10^3
χ² / ndf 85.33 / 100
p0 −271.2 ± 2806
pull
Entries 101
Mean −316.6
Std Dev 0

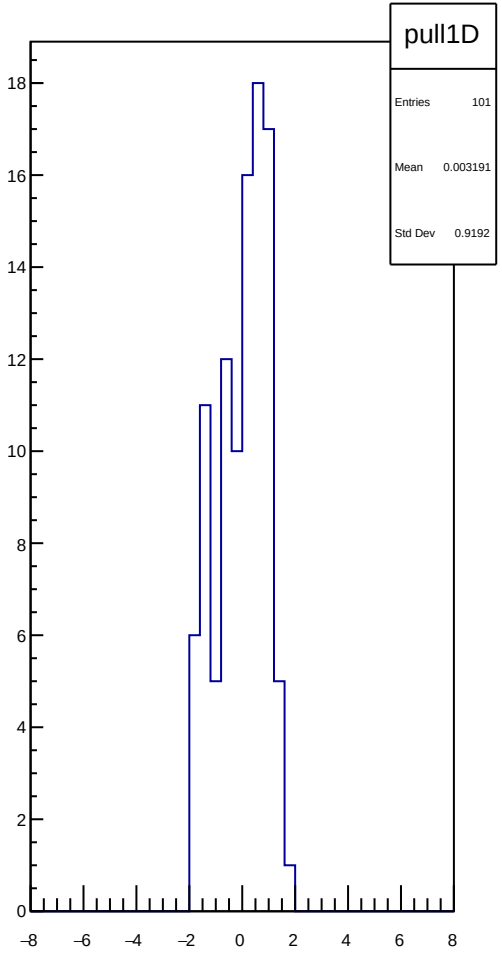

pull1D
Entries 101
Mean 0.003191
Std Dev 0.9192

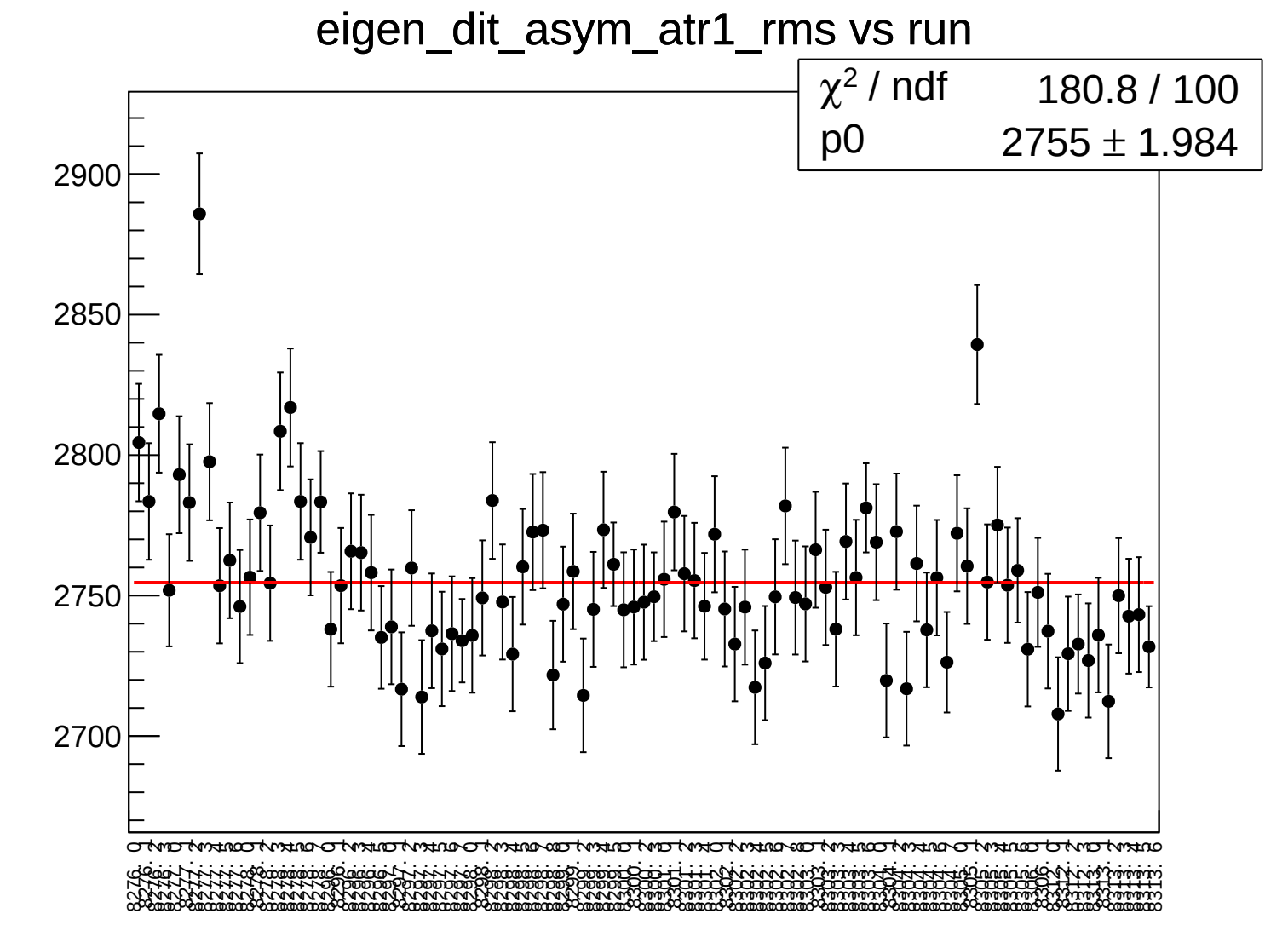

dit_asym_atr1_rms vs run
χ² / ndf 180.8 / 100
p0 2755 ± 1.984
2900
2850
2800
2750
2700

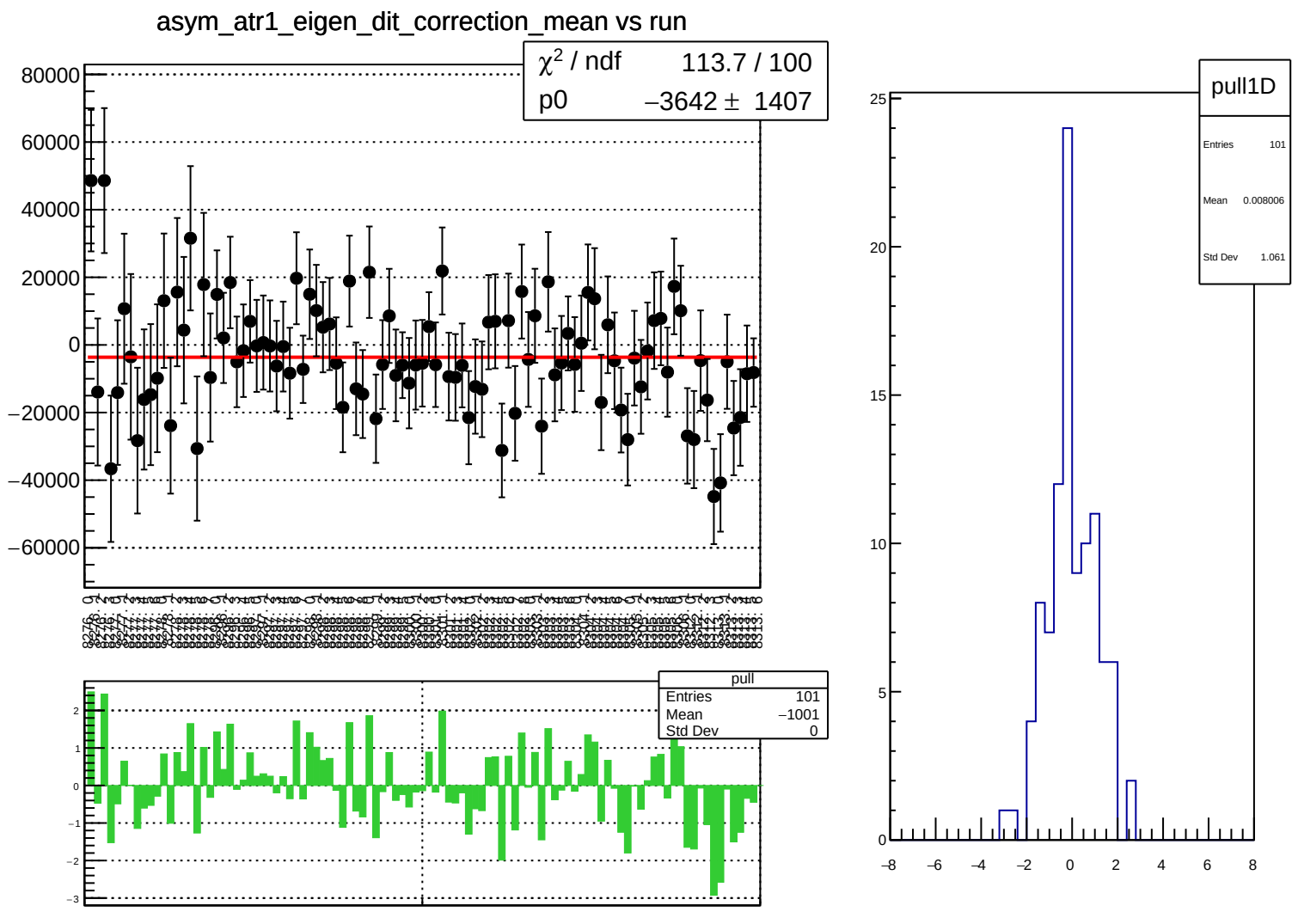

asym_atr1_dit_correction_mean vs run
χ² / ndf 113.7 / 100
p0 −3642 ± 1407
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −1001
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.008006
Std Dev 1.061
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

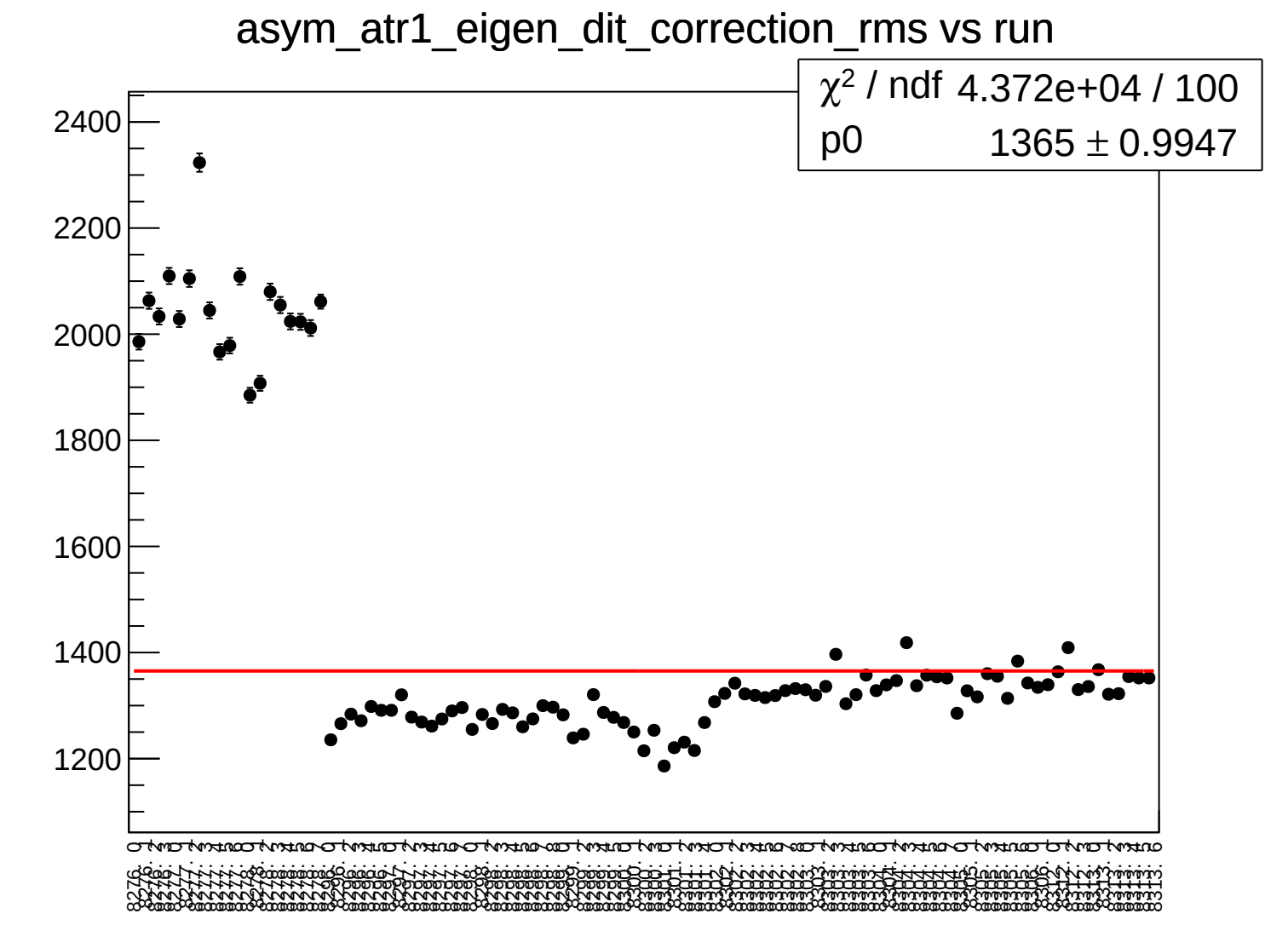

asym_atr1_dit_correction_rms vs run
χ² / ndf 4.372e+04 / 100
p0 1365 ± 0.9947
2400
2200
2000
1800
1600
1400
1200

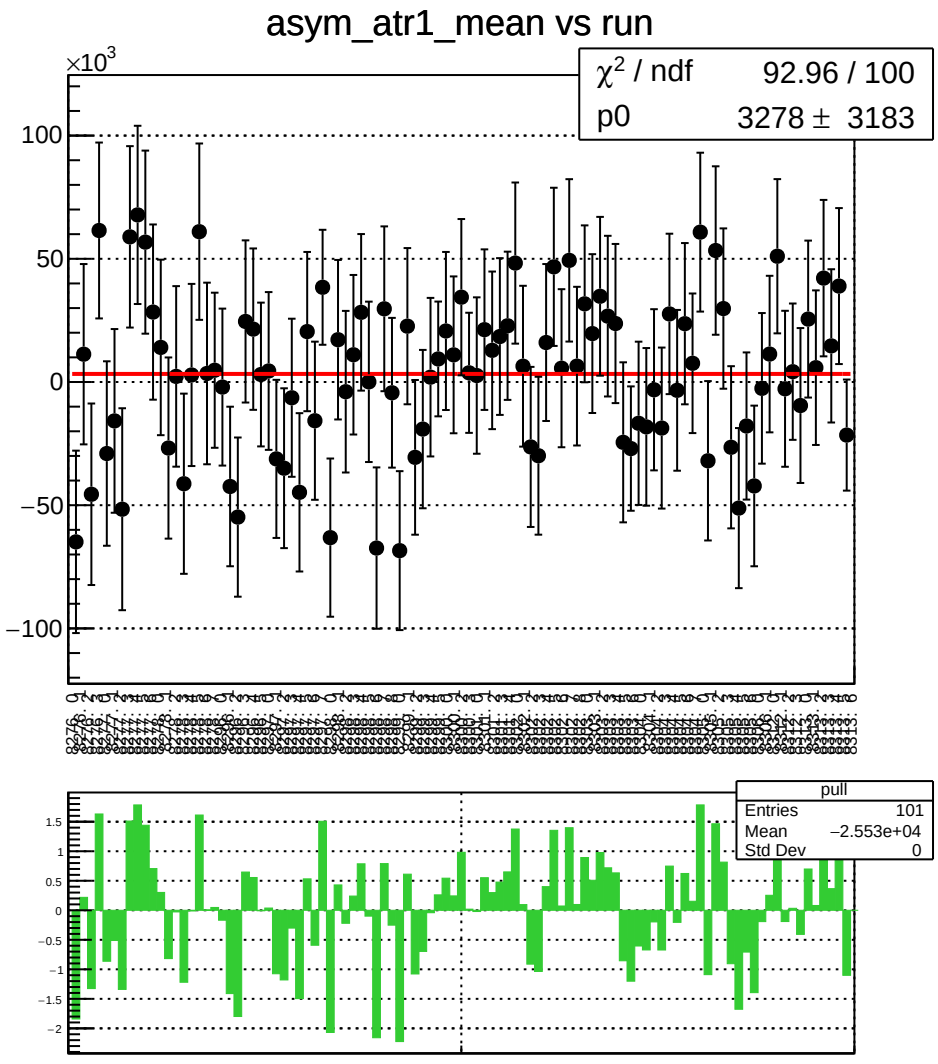

eigen_dit_asym_atr1_mean vs run
×10^3
χ² / ndf 85.33 / 100
p0 −271.2 ± 2806
pull
Entries 101
Mean −316.6
Std Dev 0

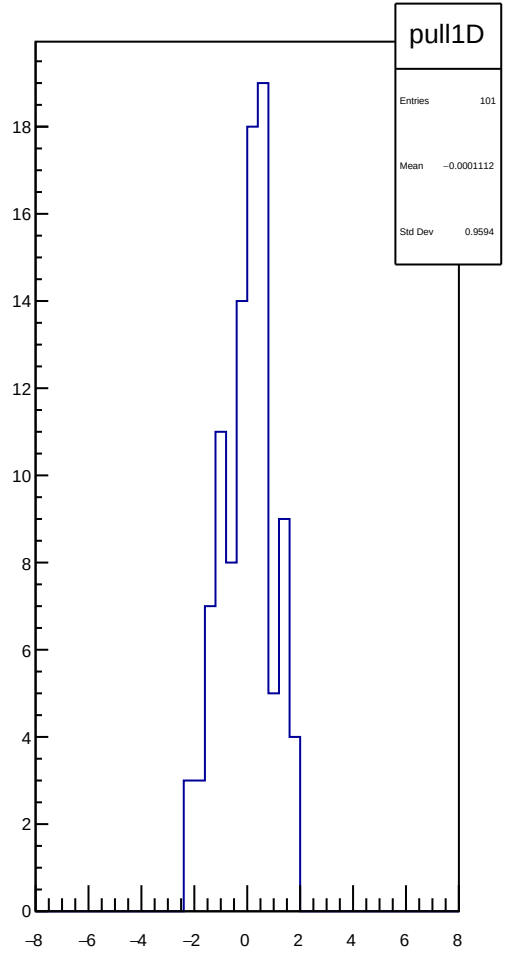

pull1D
Entries 101
Mean 0.003191
Std Dev 0.9192

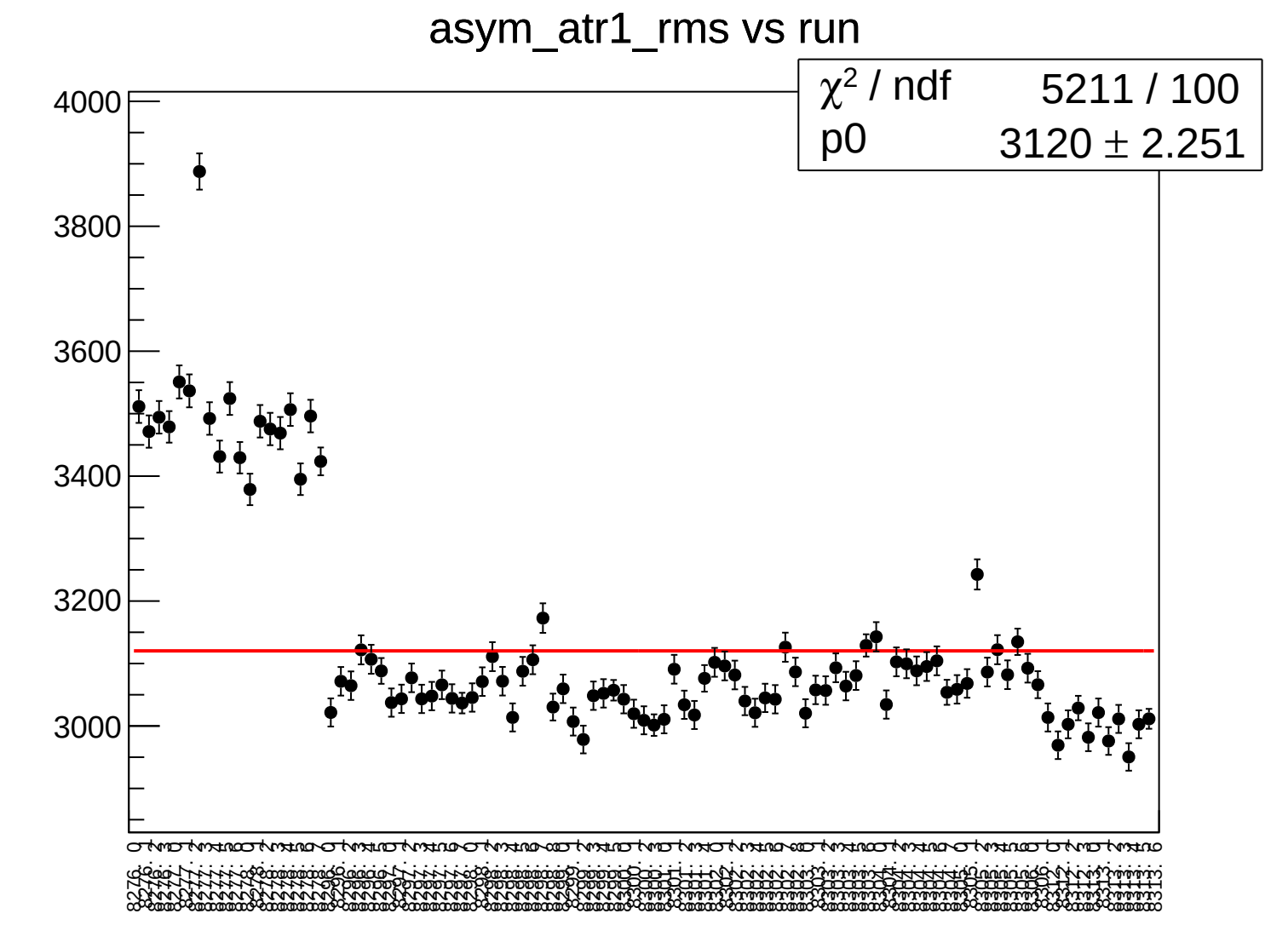

eigen_dit_asym_atr1_rms vs run
χ² / ndf 180.8 / 100
p0 2755 ± 1.984
2900
2850
2800
2750
2700

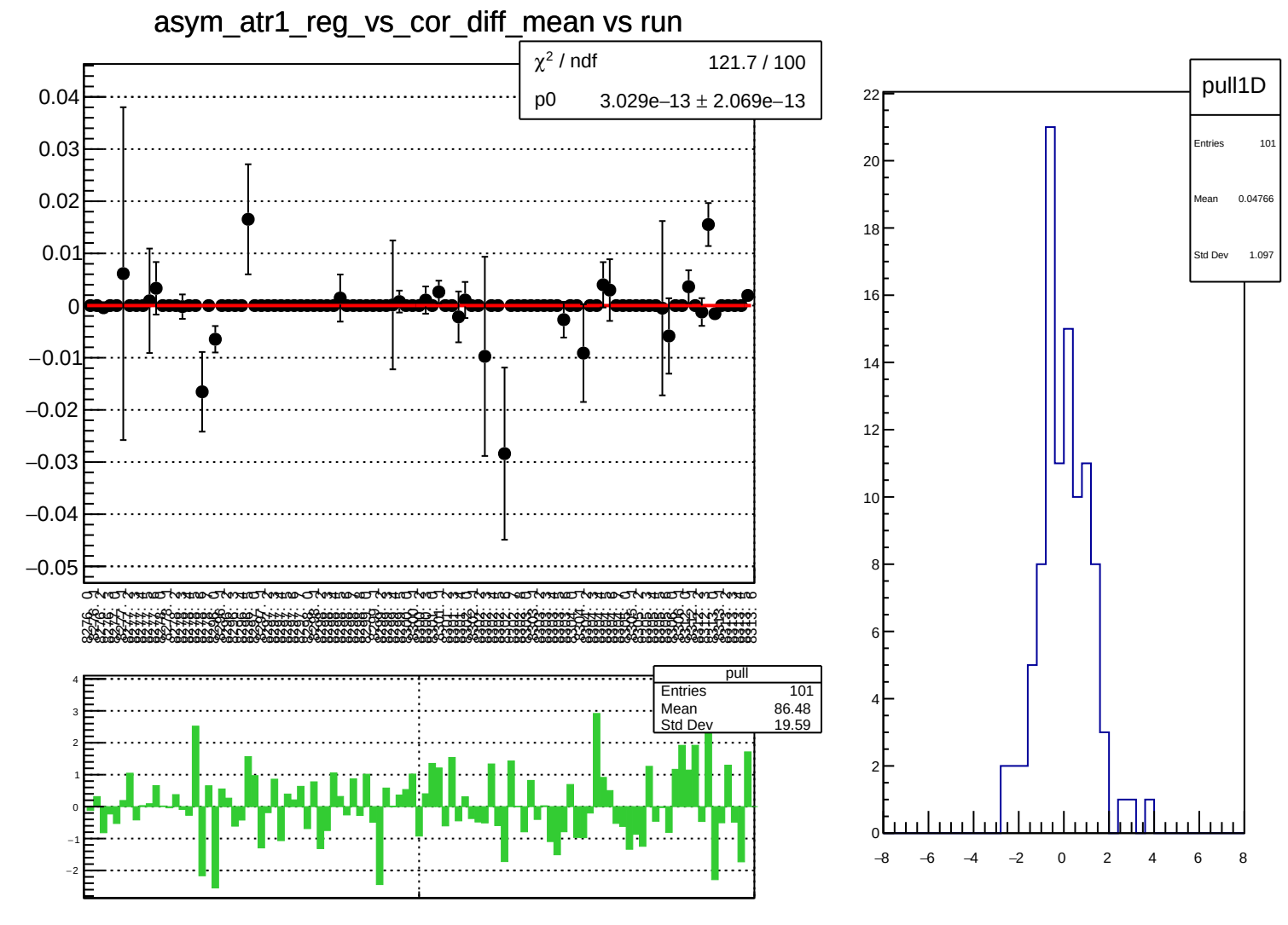

asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 113.7 / 100
p0 −3642 ± 1407
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −1001
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.008006
Std Dev 1.061
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

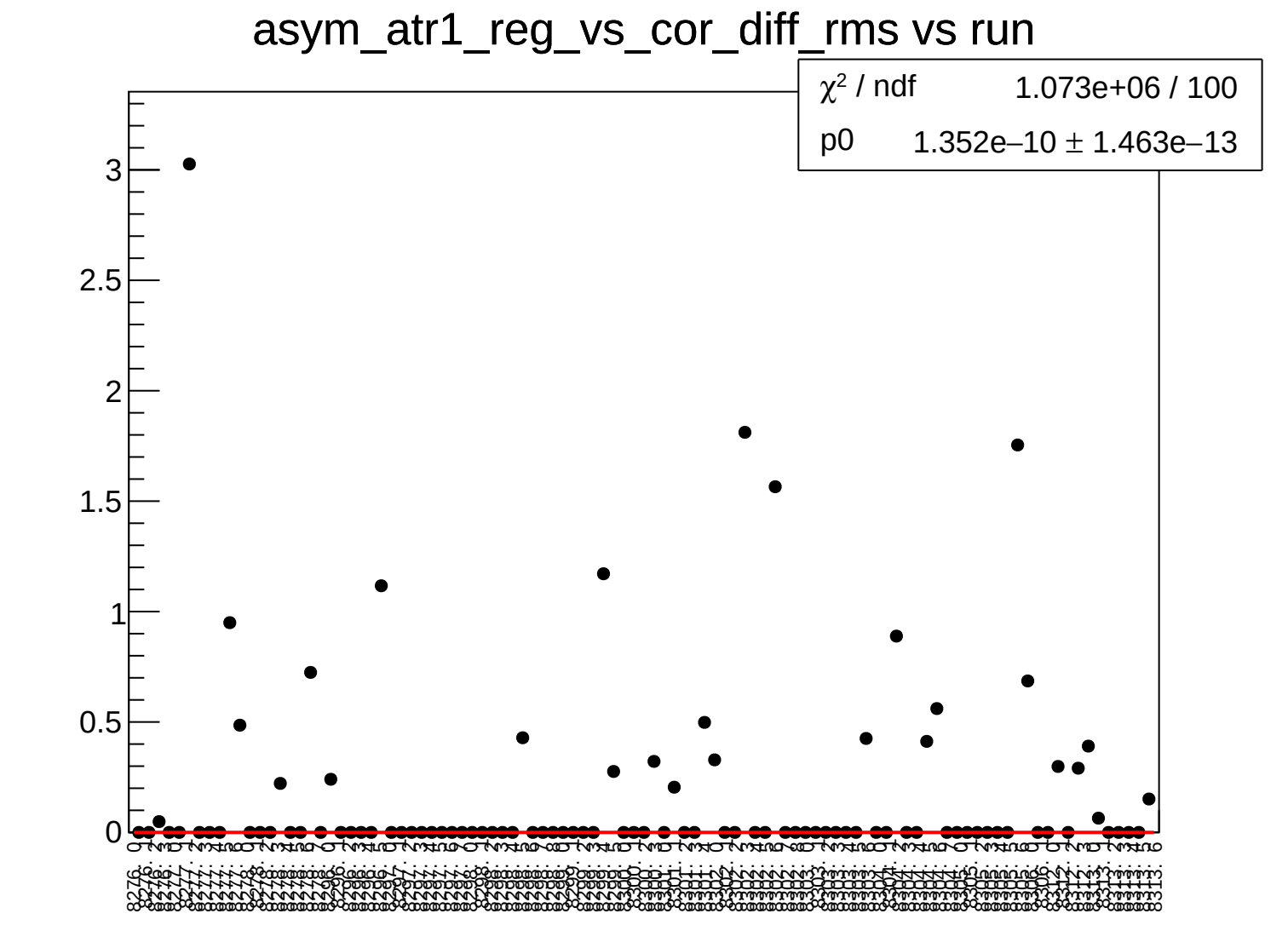

asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 4.372e+04 / 100
p0 1365 ± 0.9947
2400
2200
2000
1800
1600
1400
1200

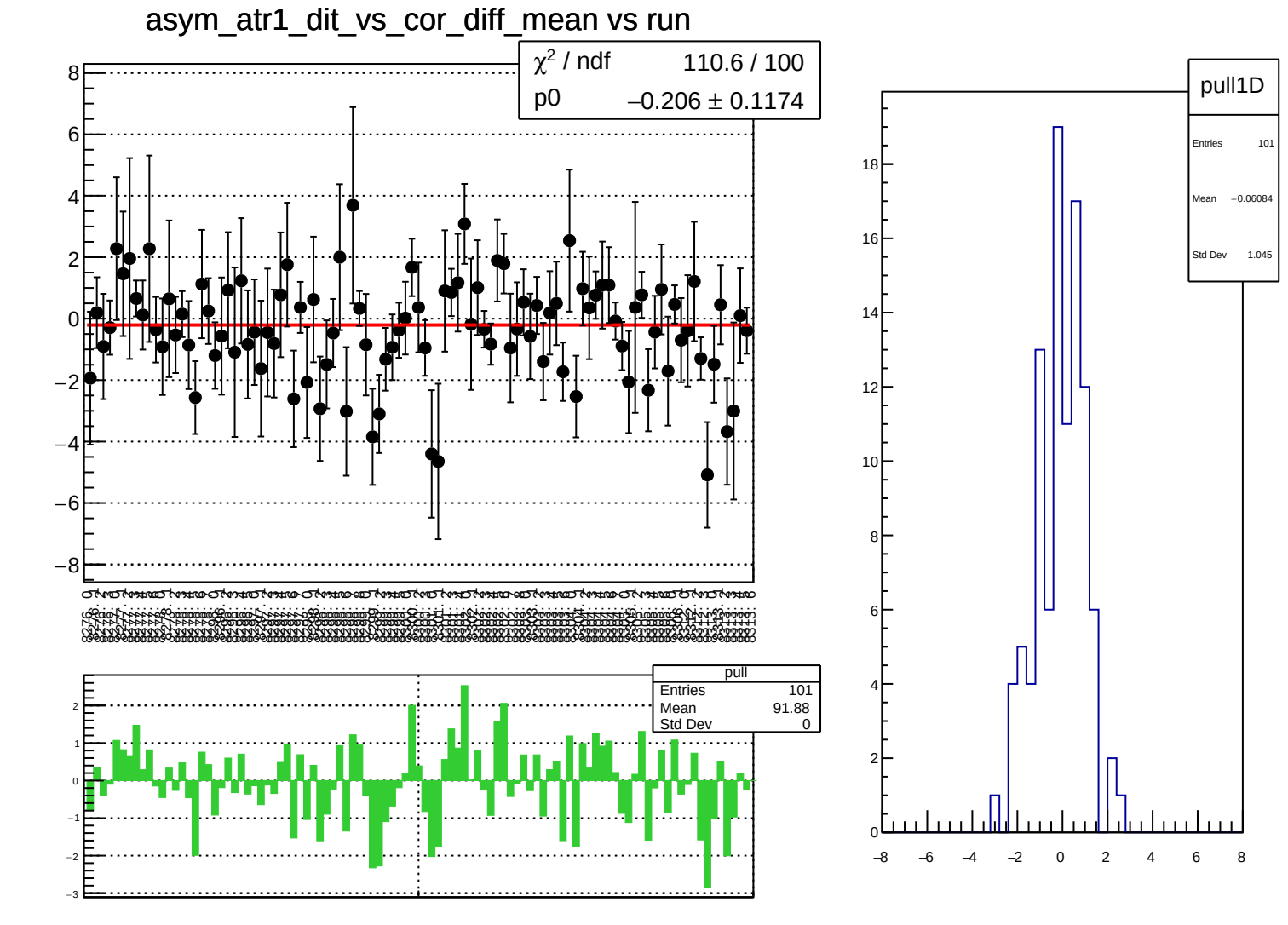

asym_atr1_mean vs run
×10^3
χ^2 / ndf 92.96 / 100
p0 3278 ± 3183
100
50
0
−50
−100
pull
Entries 101
Mean −2.553e+04
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

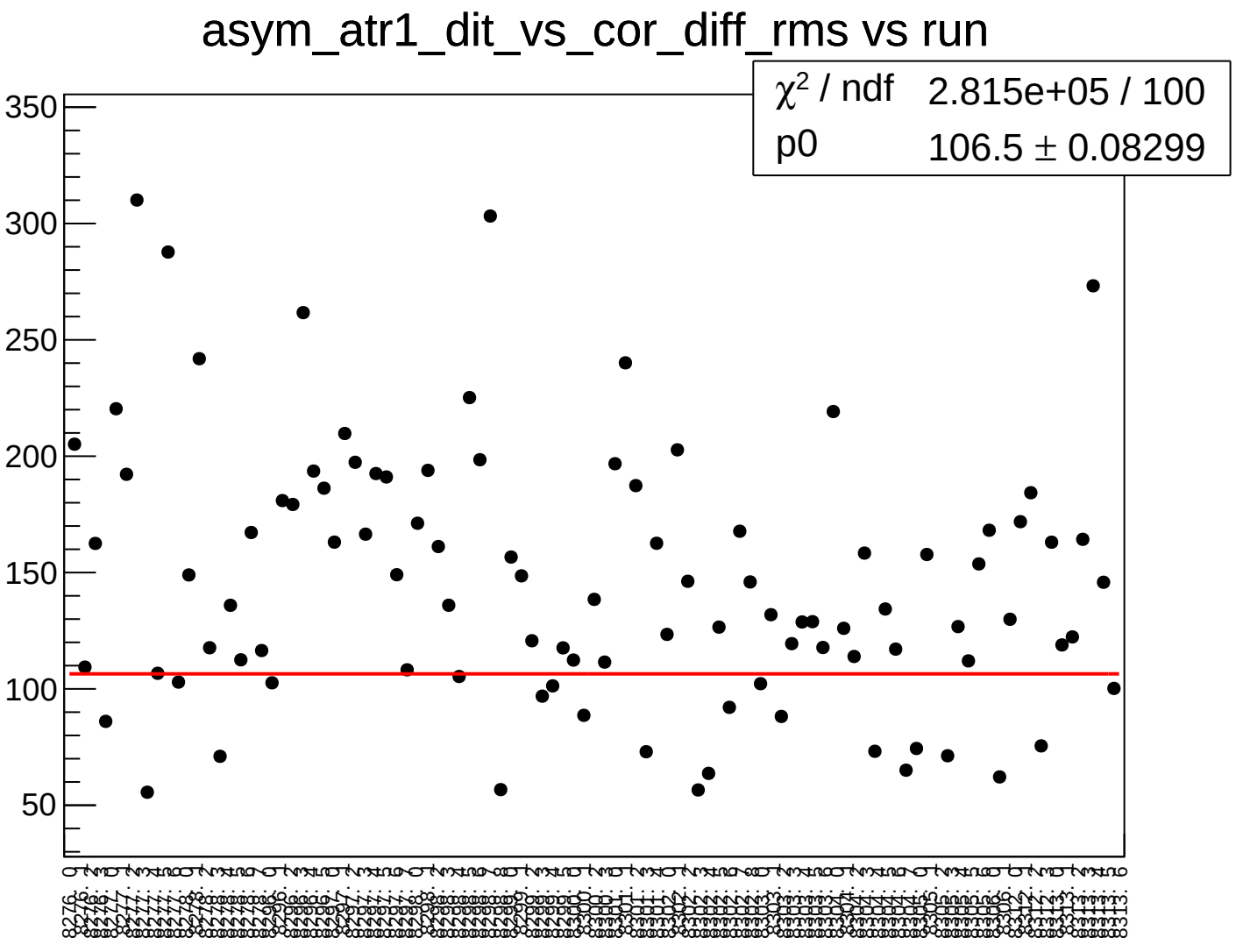

pull1D
Entries 101
Mean −0.0001112
Std Dev 0.9594
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

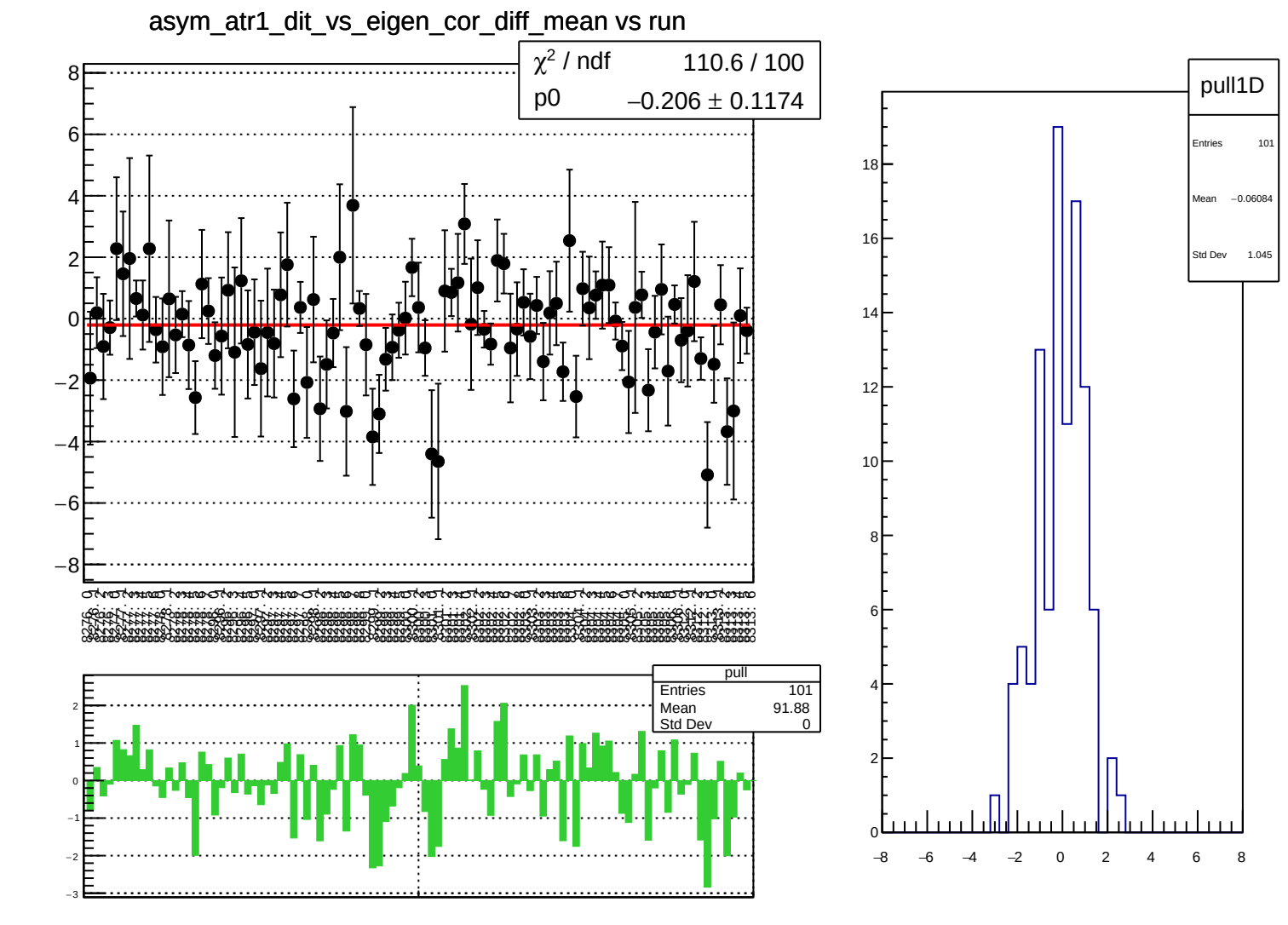

asym_atr1_rms vs run
χ² / ndf 5211 / 100
p0 3120 ± 2.251
4000
3800
3600
3400
3200
3000

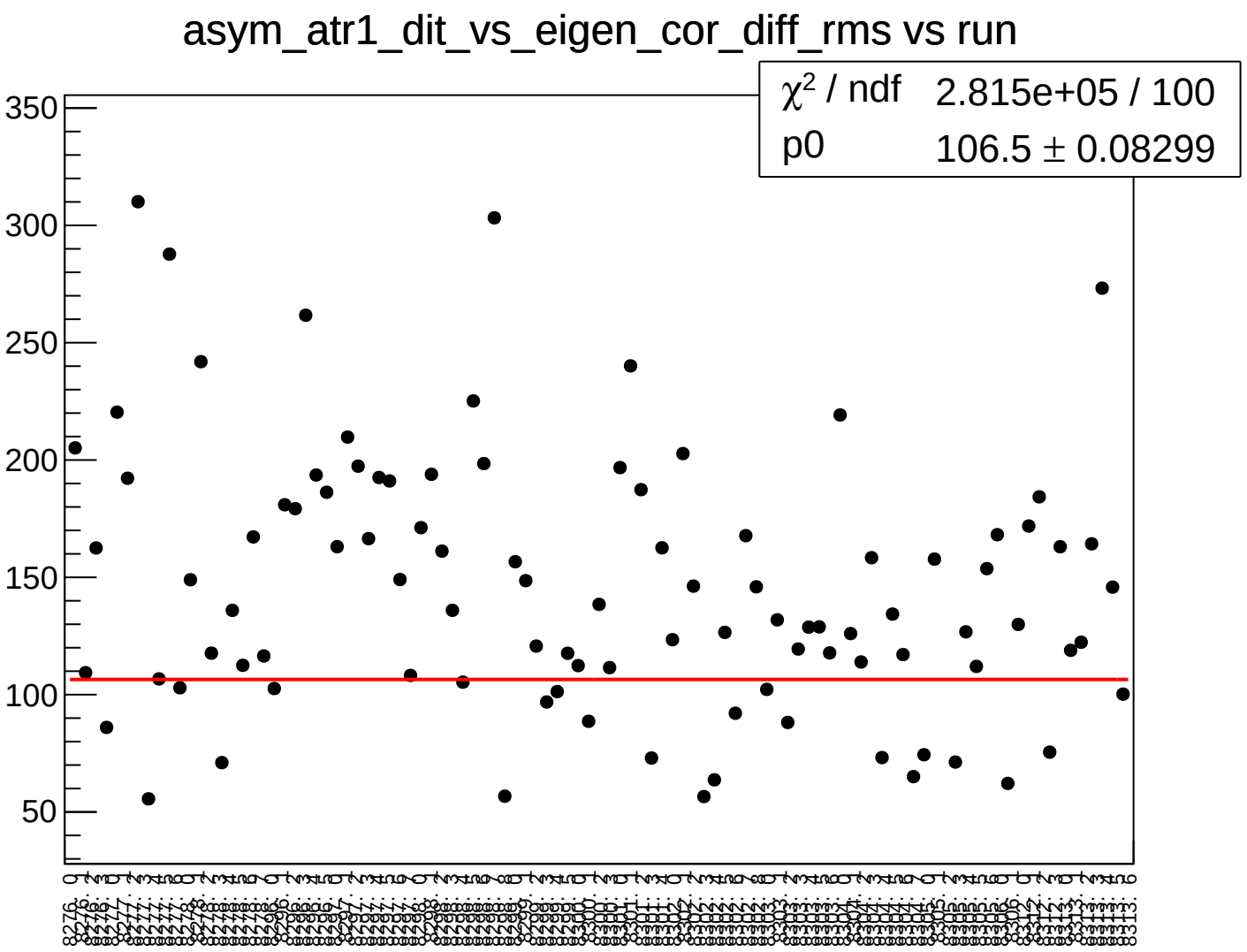

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 121.7 / 100
p0 3.029e−13 ± 2.069e−13
pull
Entries 101
Mean 86.48
Std Dev 19.59
pull1D
Entries 101
Mean 0.04766
Std Dev 1.097

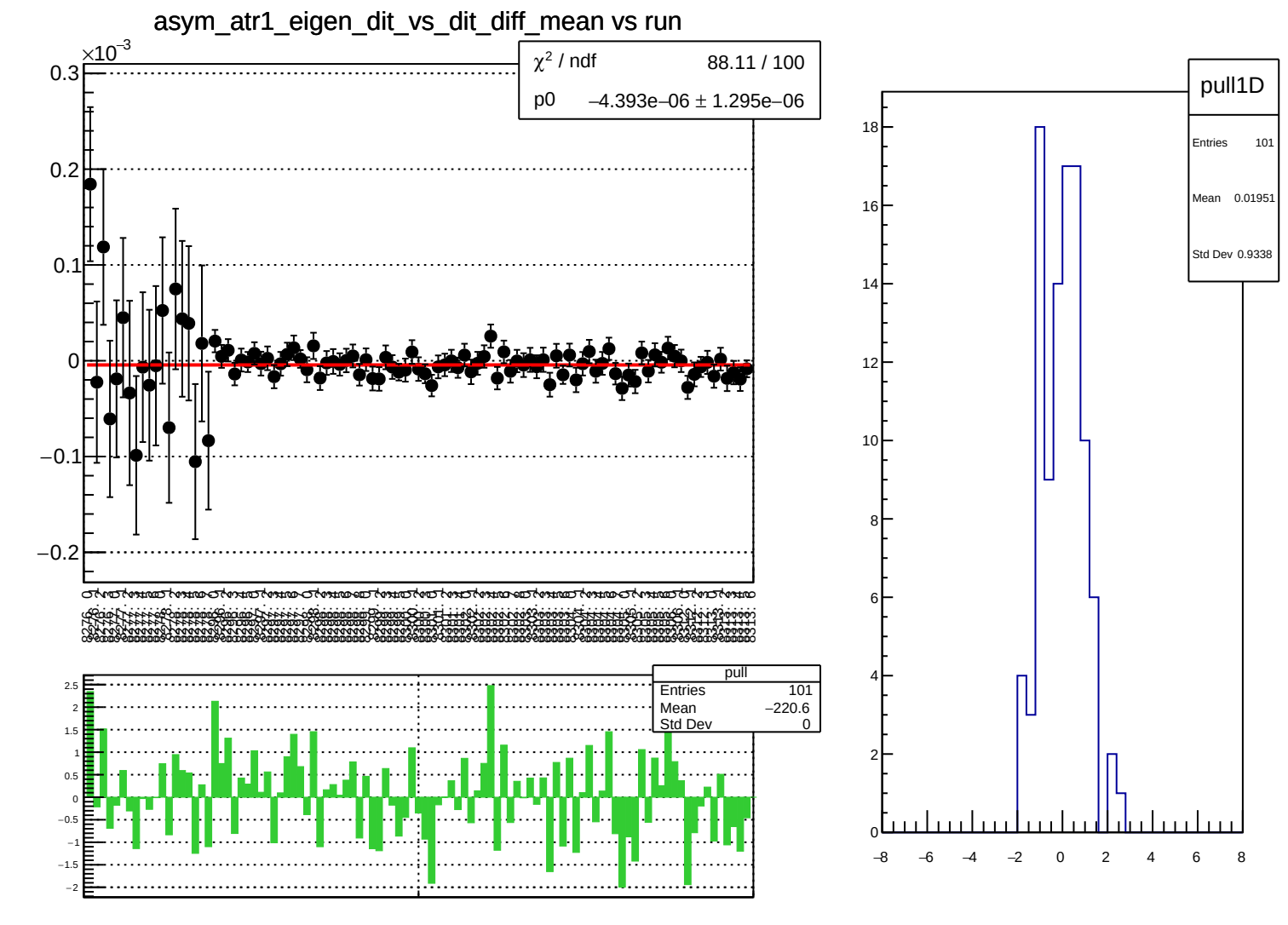

asym_atr1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.073e+06 / 100
p0 1.352e−10 ± 1.463e−13
3
2.5
2
1.5
1
0.5
0

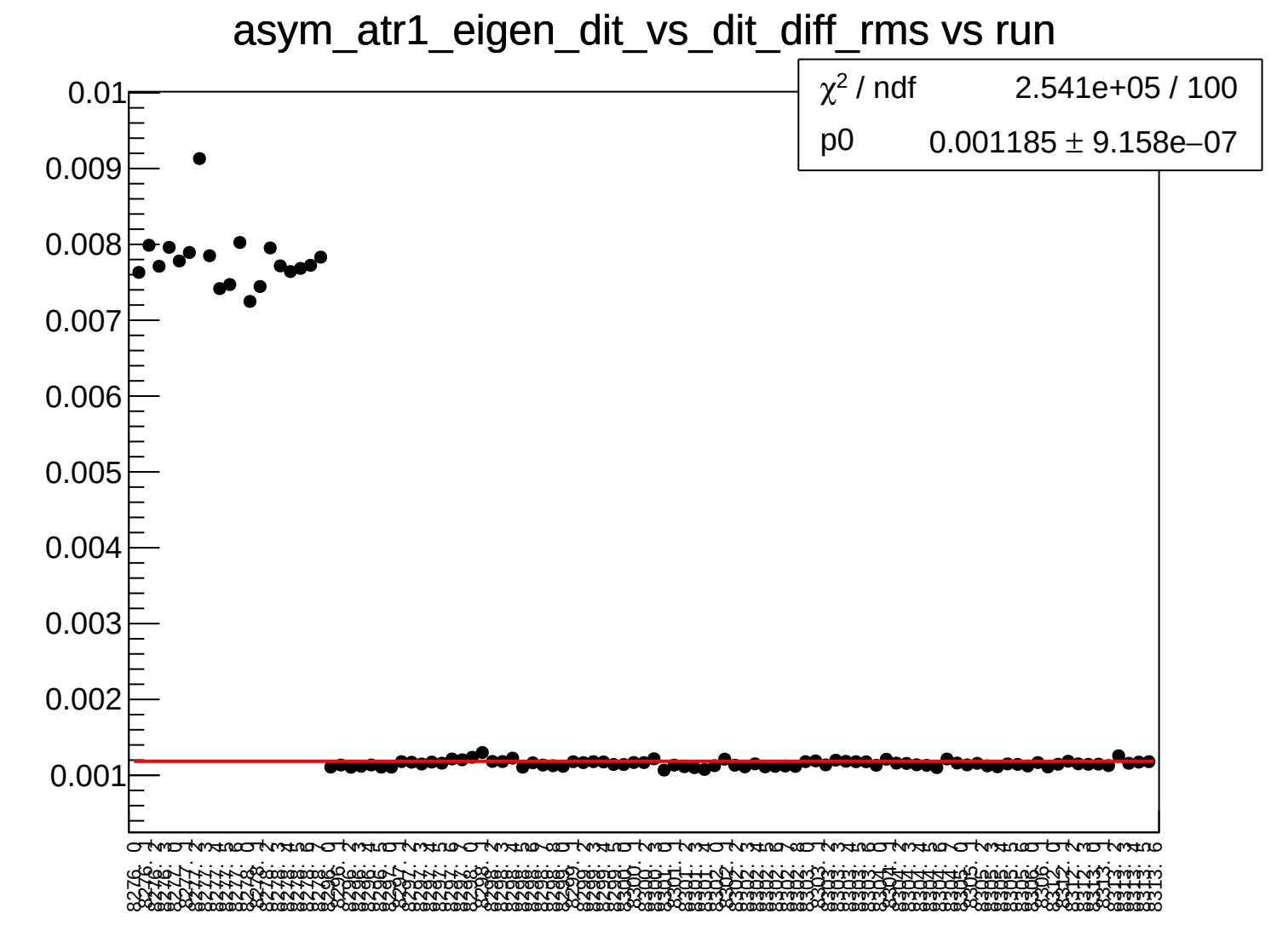

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 110.6 / 100
p0 −0.206 ± 0.1174
pull
Entries 101
Mean 91.88
Std Dev 0
pull1D
Entries 101
Mean −0.06084
Std Dev 1.045

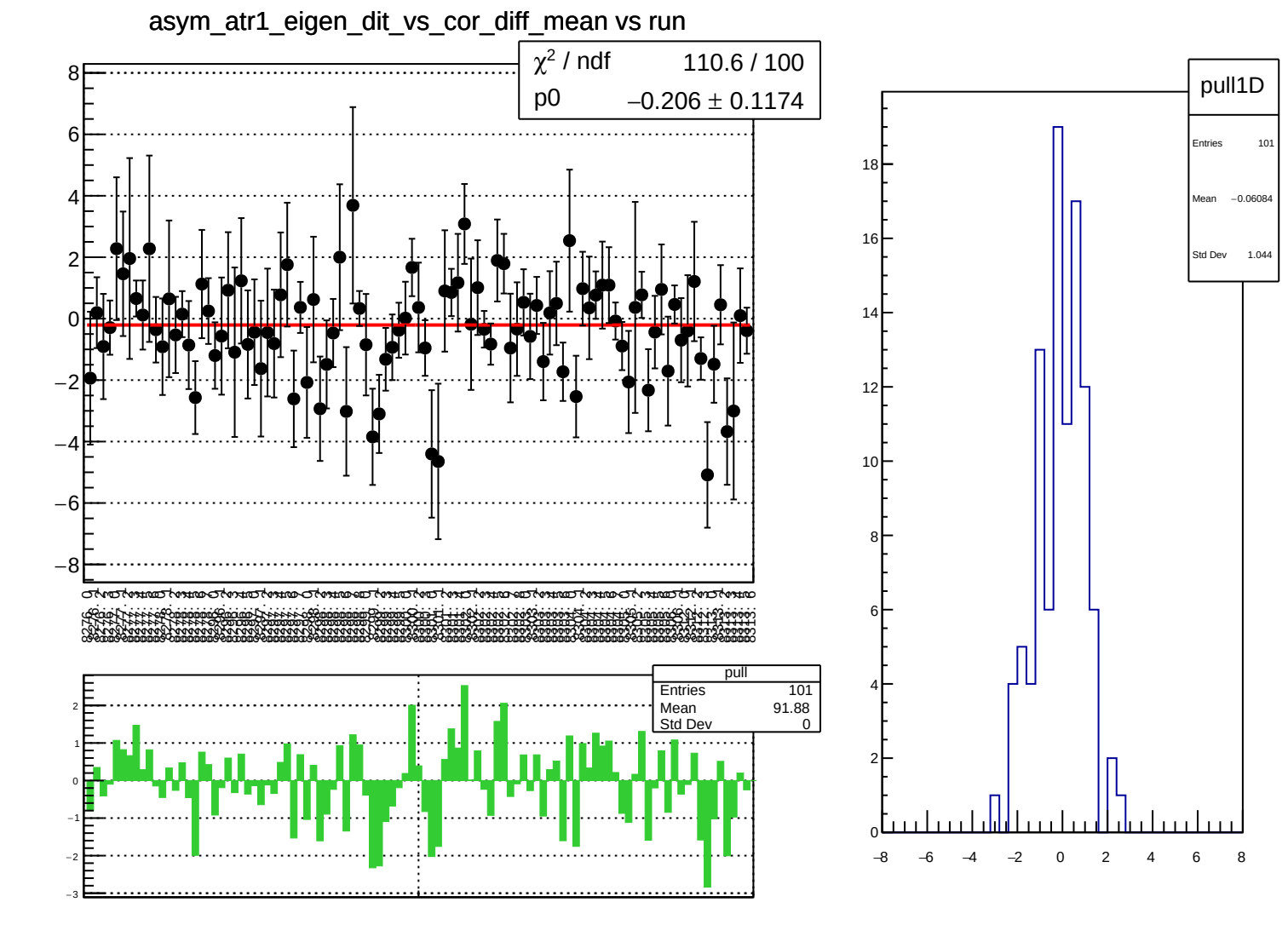

asym_atr1_dit_vs_cor_diff_rms vs run
χ² / ndf 2.815e+05 / 100
p0 106.5 ± 0.08299
350
300
250
200
150
100
50

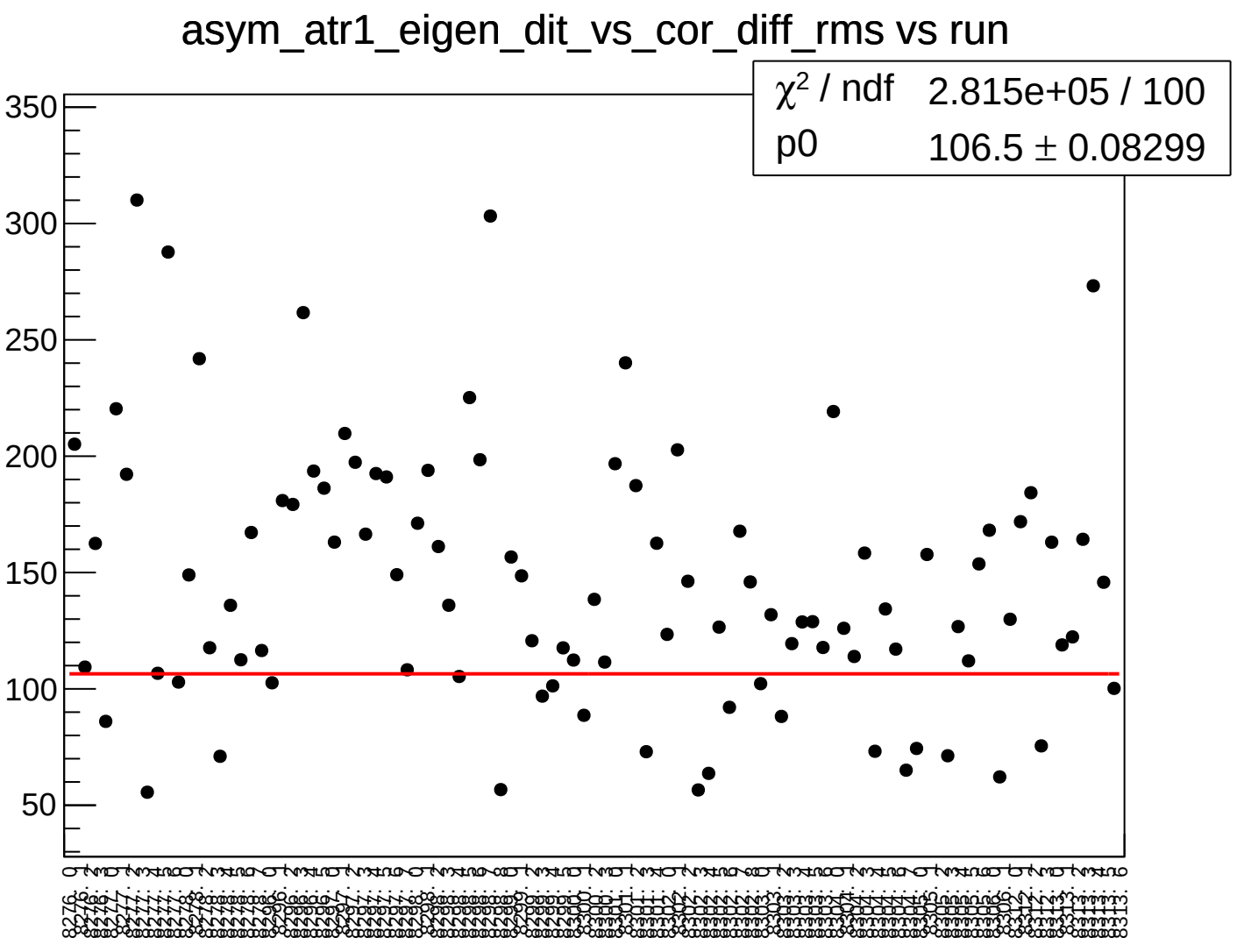

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 110.6 / 100
p0 −0.206 ± 0.1174
pull
Entries 101
Mean 91.88
Std Dev 0
pull1D
Entries 101
Mean −0.06084
Std Dev 1.045

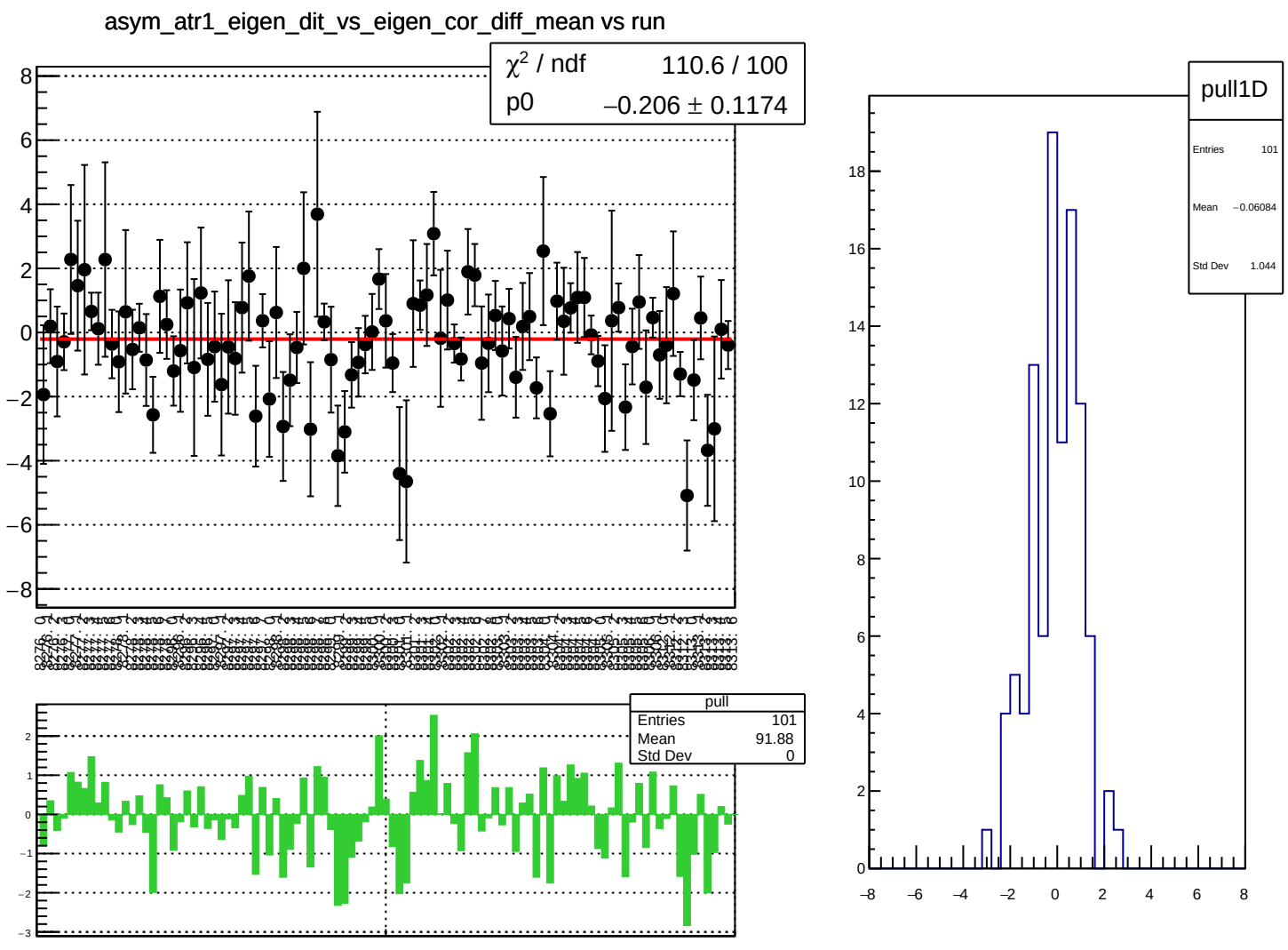

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.815e+05 / 100
p0 106.5 ± 0.08299
350
300
250
200
150
100
50

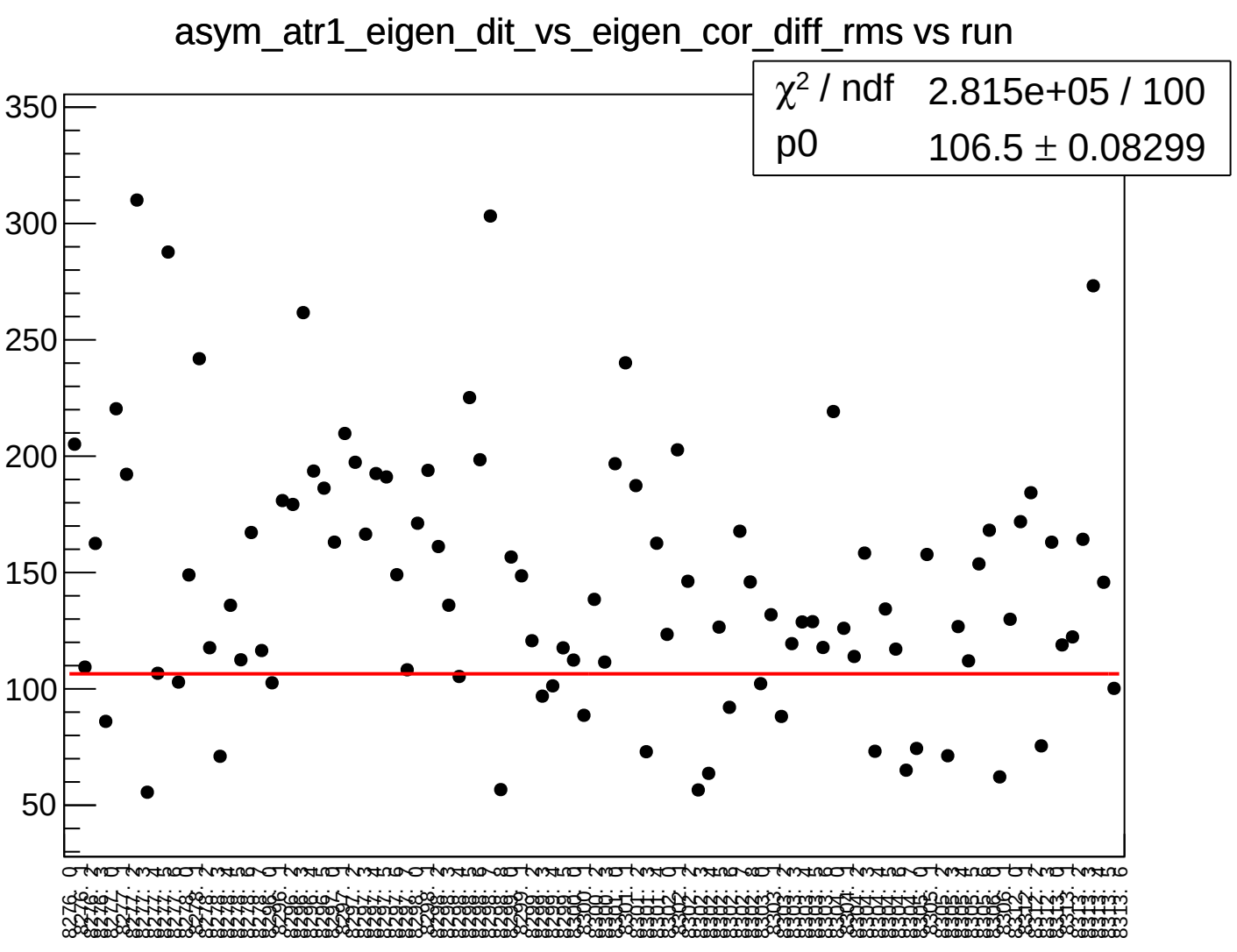

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.11 / 100
p0 −4.393e−06 ± 1.295e−06
0.3
0.2
0.1
0
−0.1
−0.2
pull
Entries 101
Mean −220.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 101
Mean 0.01951
Std Dev 0.9338
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

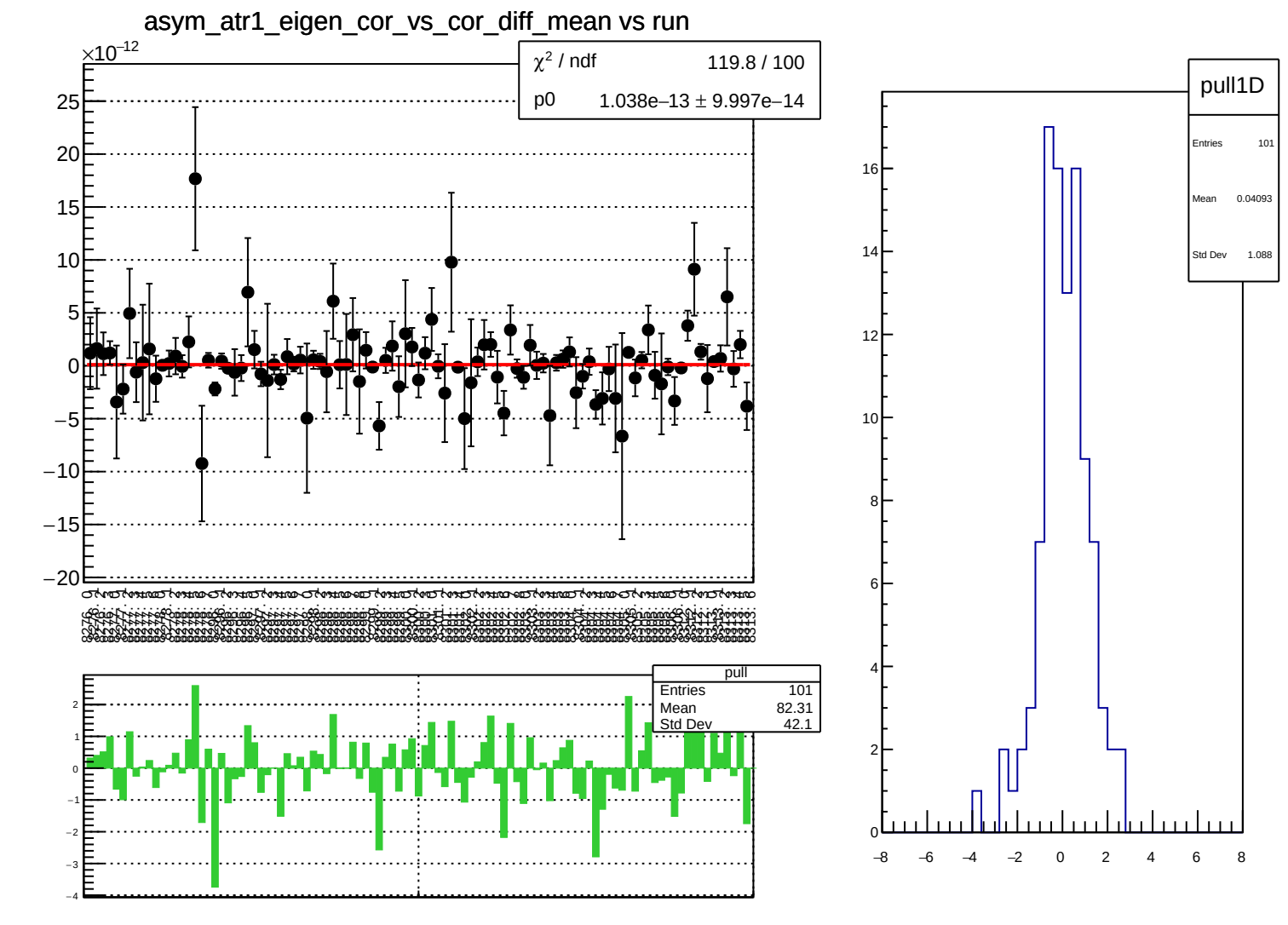

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.541e+05 / 100
p0 0.001185 ± 9.158e−07
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001

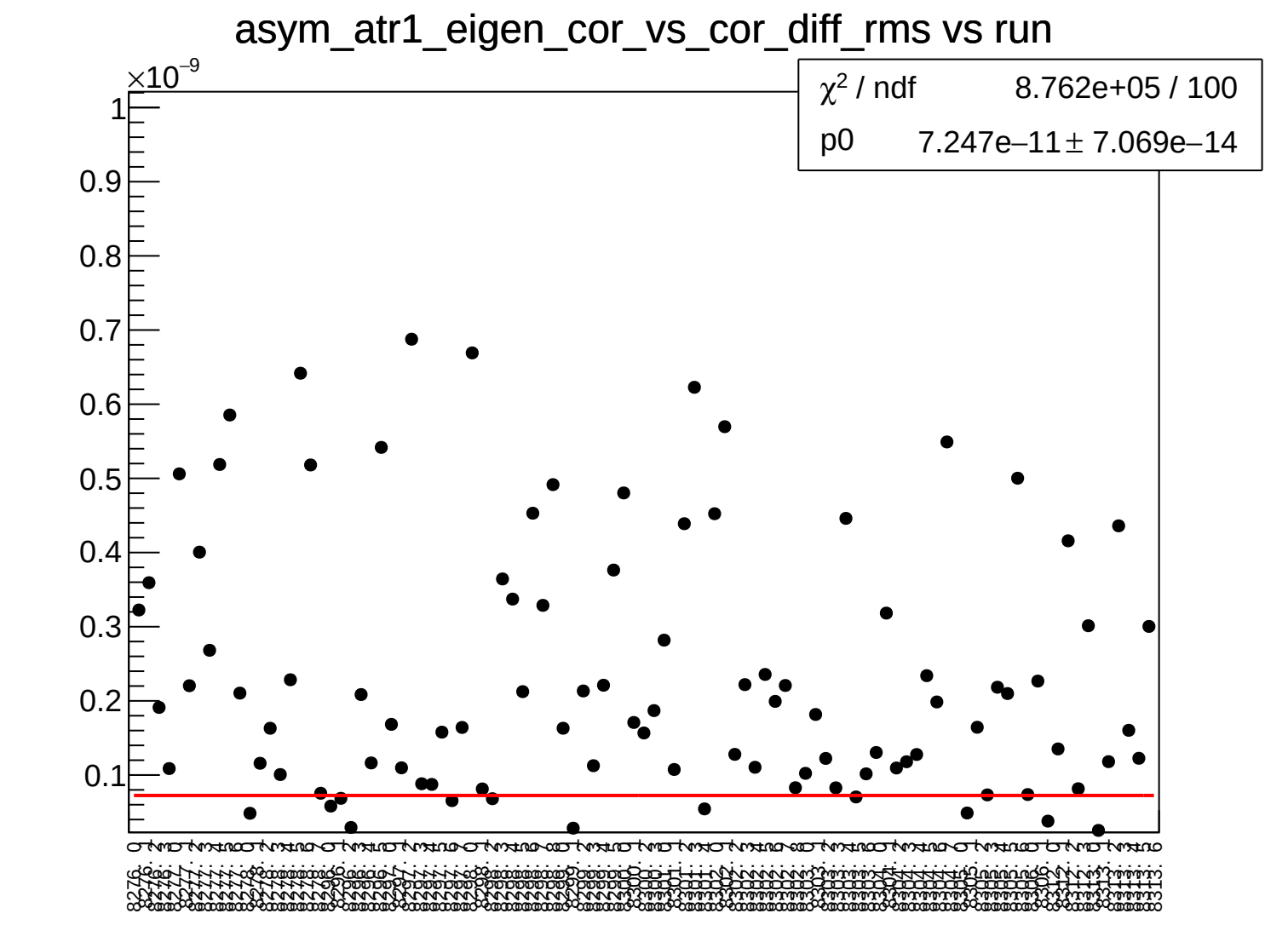

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 110.6 / 100
p0 −0.206 ± 0.1174
pull
Entries 101
Mean 91.88
Std Dev 0
pull1D
Entries 101
Mean −0.06084
Std Dev 1.044

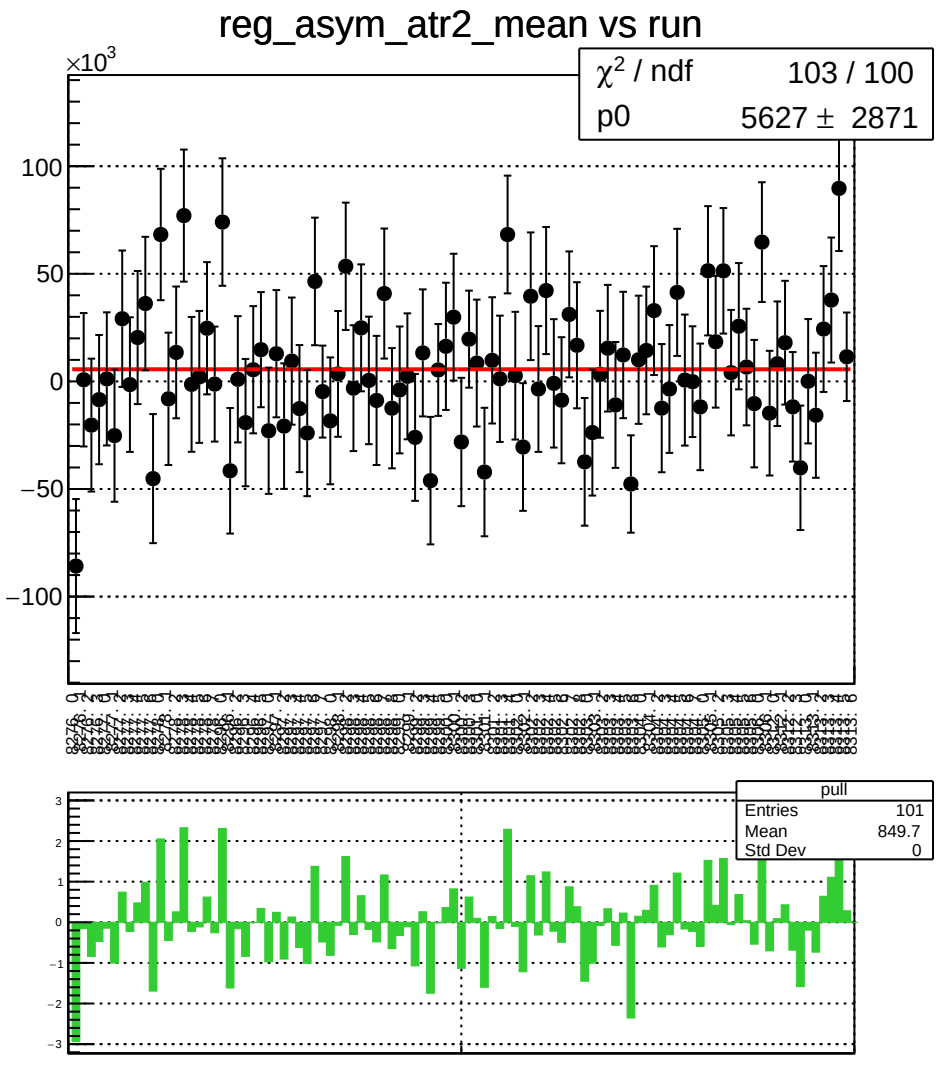

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.815e+05 / 100
p0 106.5 ± 0.08299
350
300
250
200
150
100
50

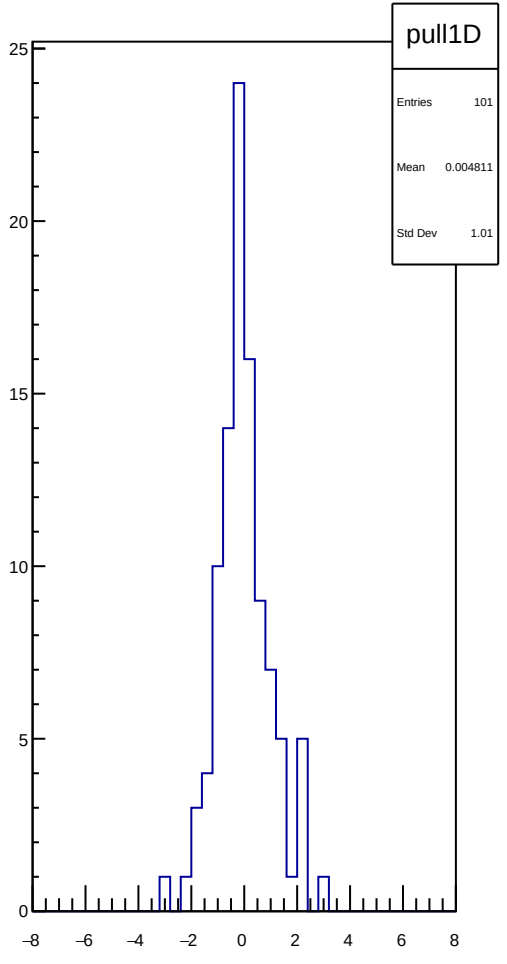

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 110.6 / 100
p0 −0.206 ± 0.1174
pull
Entries 101
Mean 91.88
Std Dev 0
pull1D
Entries 101
Mean −0.06084
Std Dev 1.044

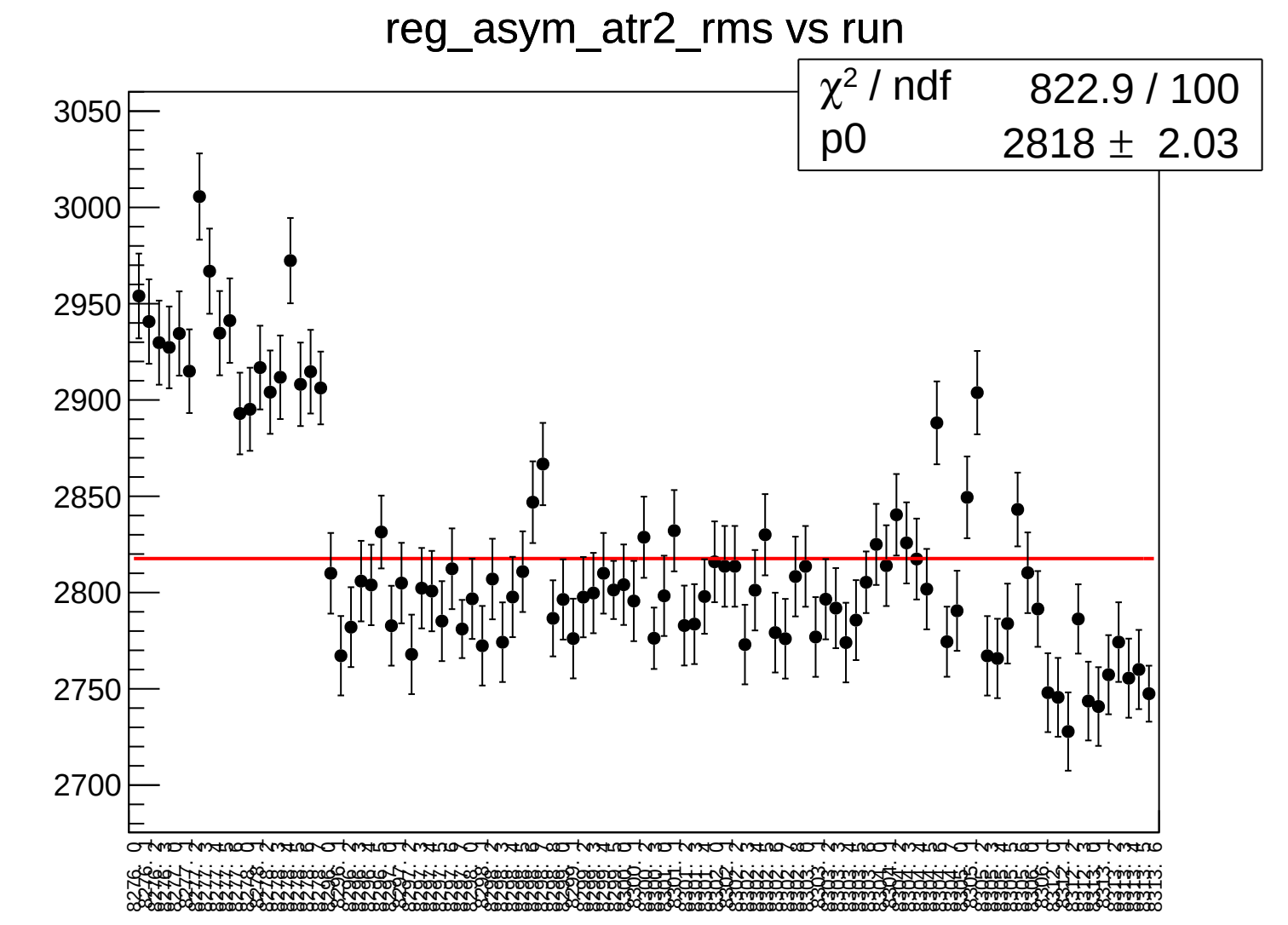

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.815e+05 / 100
p0 106.5 ± 0.08299
350
300
250
200
150
100
50

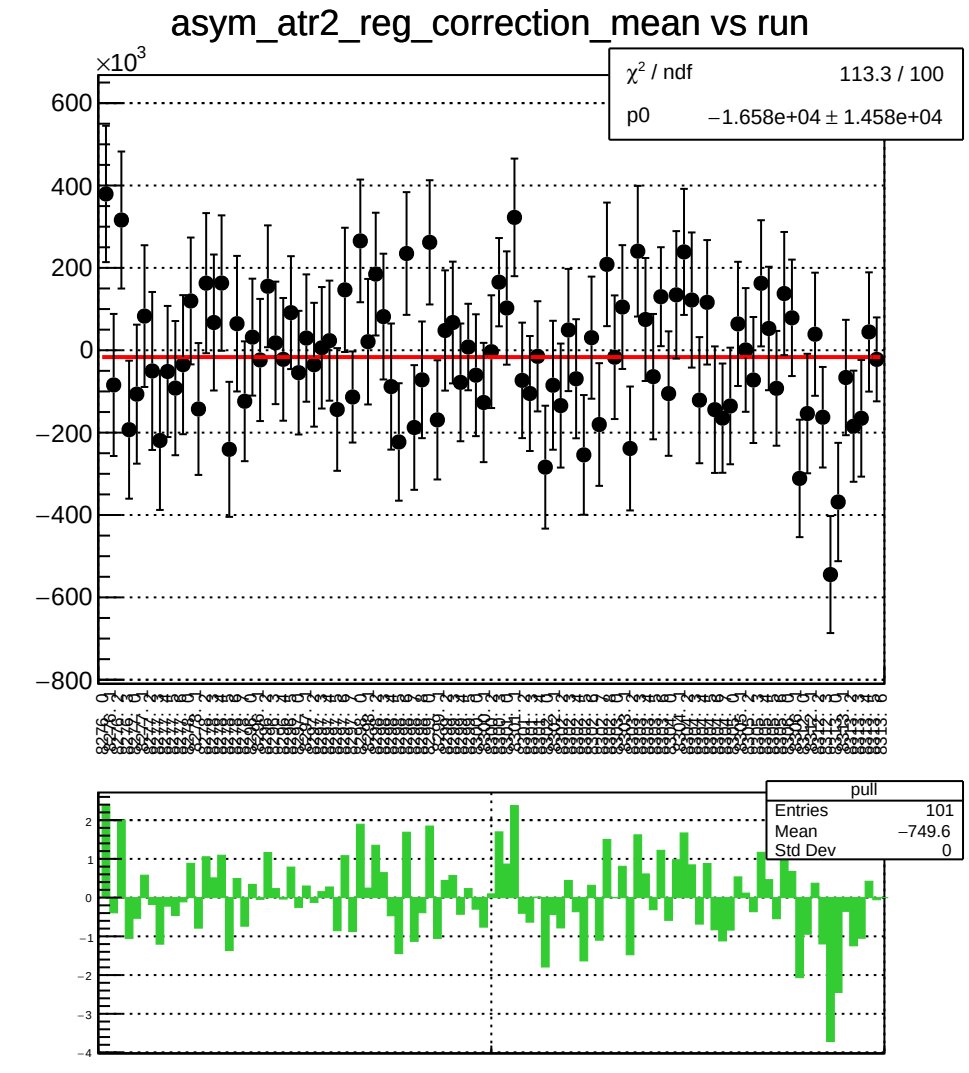

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 119.8 / 100
p0 1.038e−13 ± 9.997e−14
pull
Entries 101
Mean 82.31
Std Dev 42.1
pull1D
Entries 101
Mean 0.04093
Std Dev 1.088

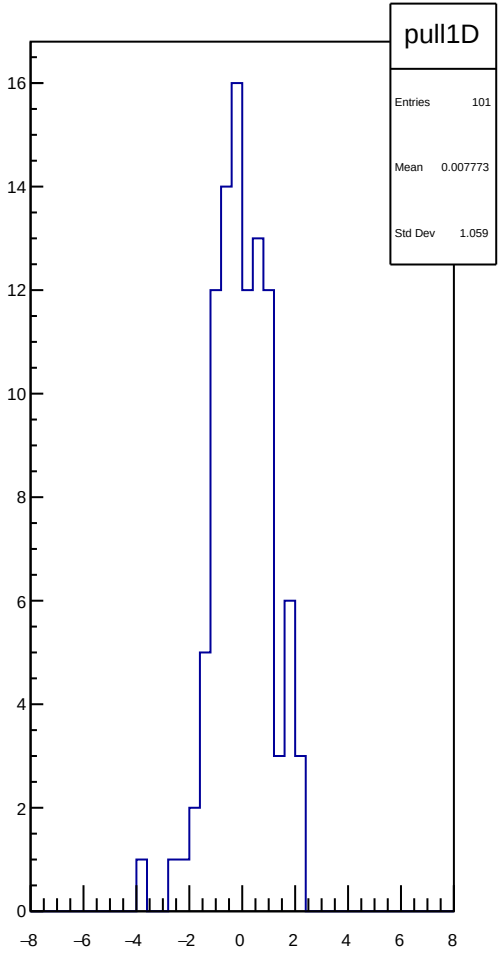

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.762e+05 / 100
p0 7.247e−11 ± 7.069e−14
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

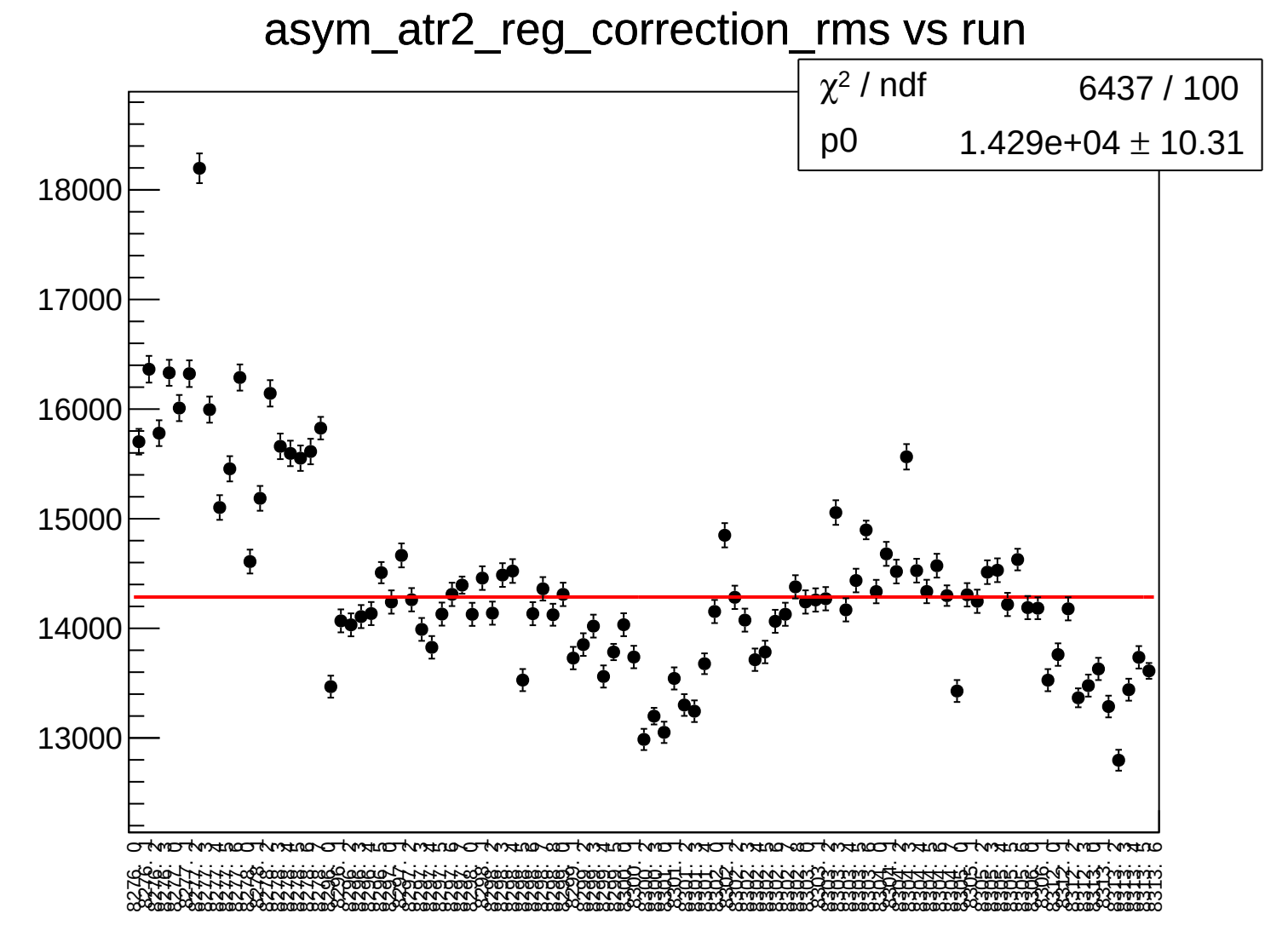

reg_asym_atr2_mean vs run
×10^3
χ^2 / ndf 103 / 100
p0 5627 ± 2871
100
50
0
−50
−100
pull
Entries 101
Mean 849.7
Std Dev 0
3
2
1
0
−1
−2
−3

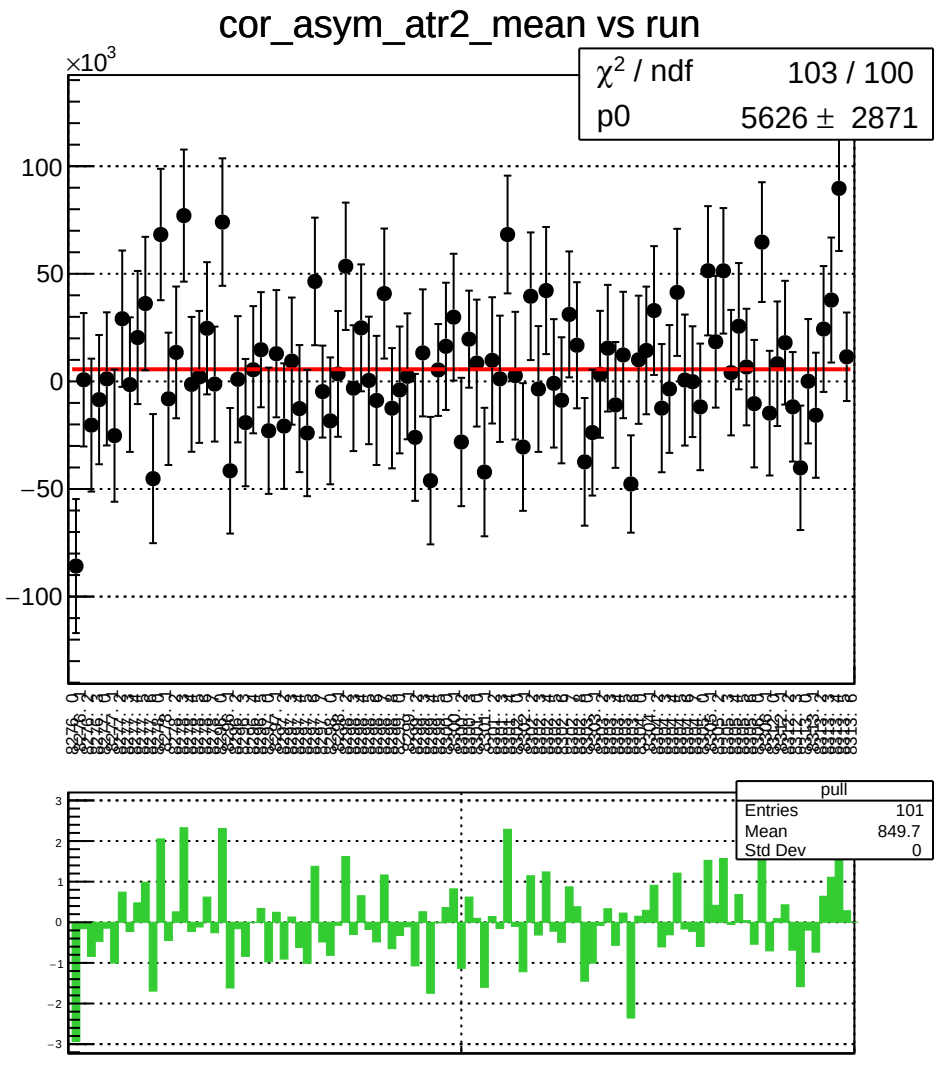

pull1D
Entries 101
Mean 0.004811
Std Dev 1.01
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

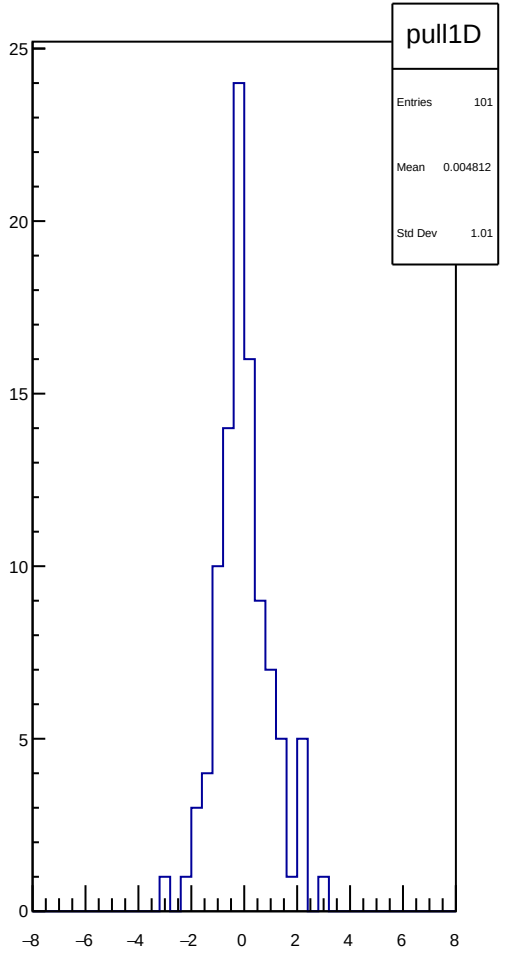

reg_asym_atr2_rms vs run
χ² / ndf 822.9 / 100
p0 2818 ± 2.03
3050
3000
2950
2900
2850
2800
2750
2700

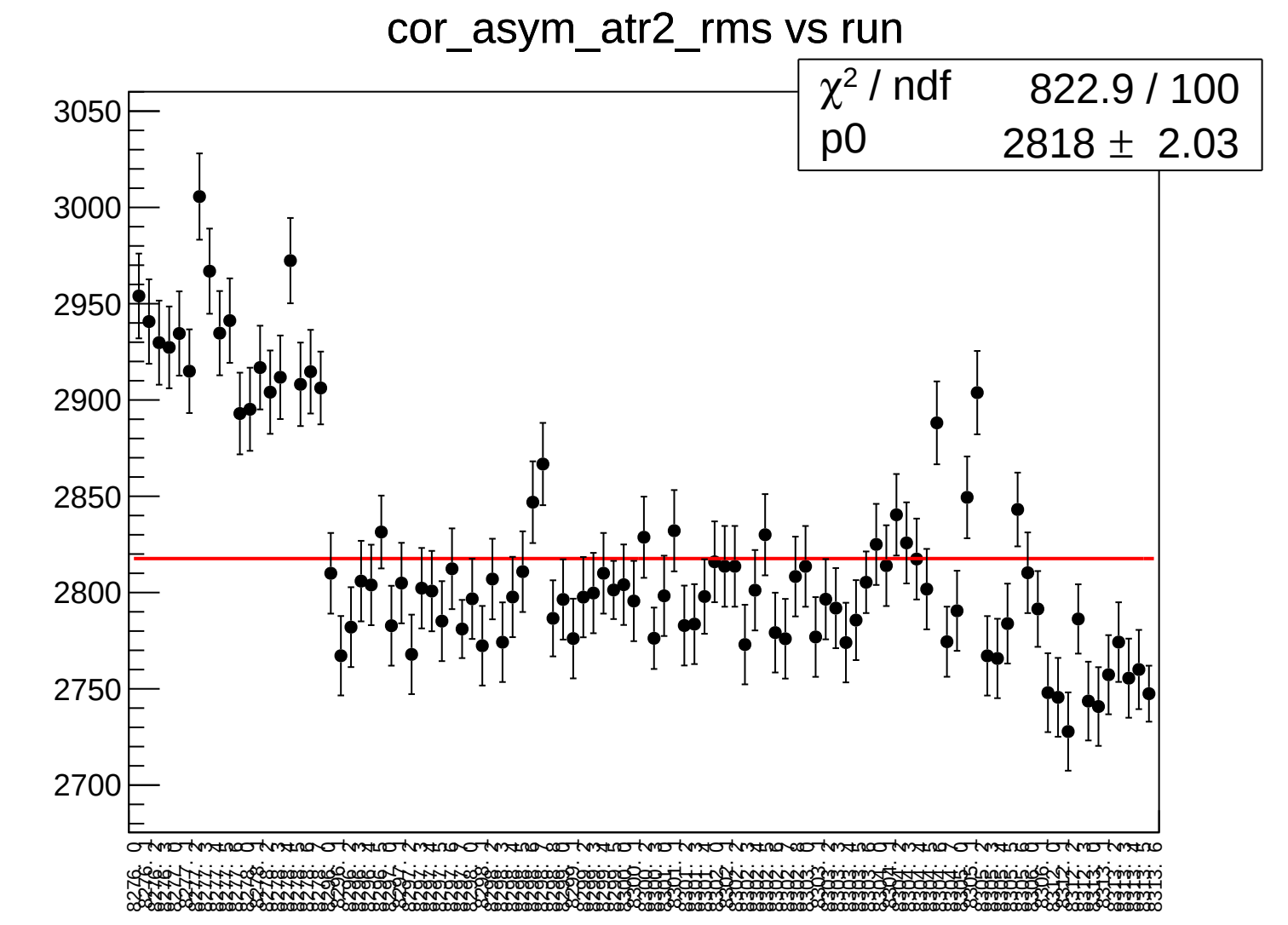

asym_atr2_reg_correction_mean vs run
×10^3
χ² / ndf 113.3 / 100
p0 −1.658e+04 ± 1.458e+04
pull
Entries 101
Mean −749.6
Std Dev 0

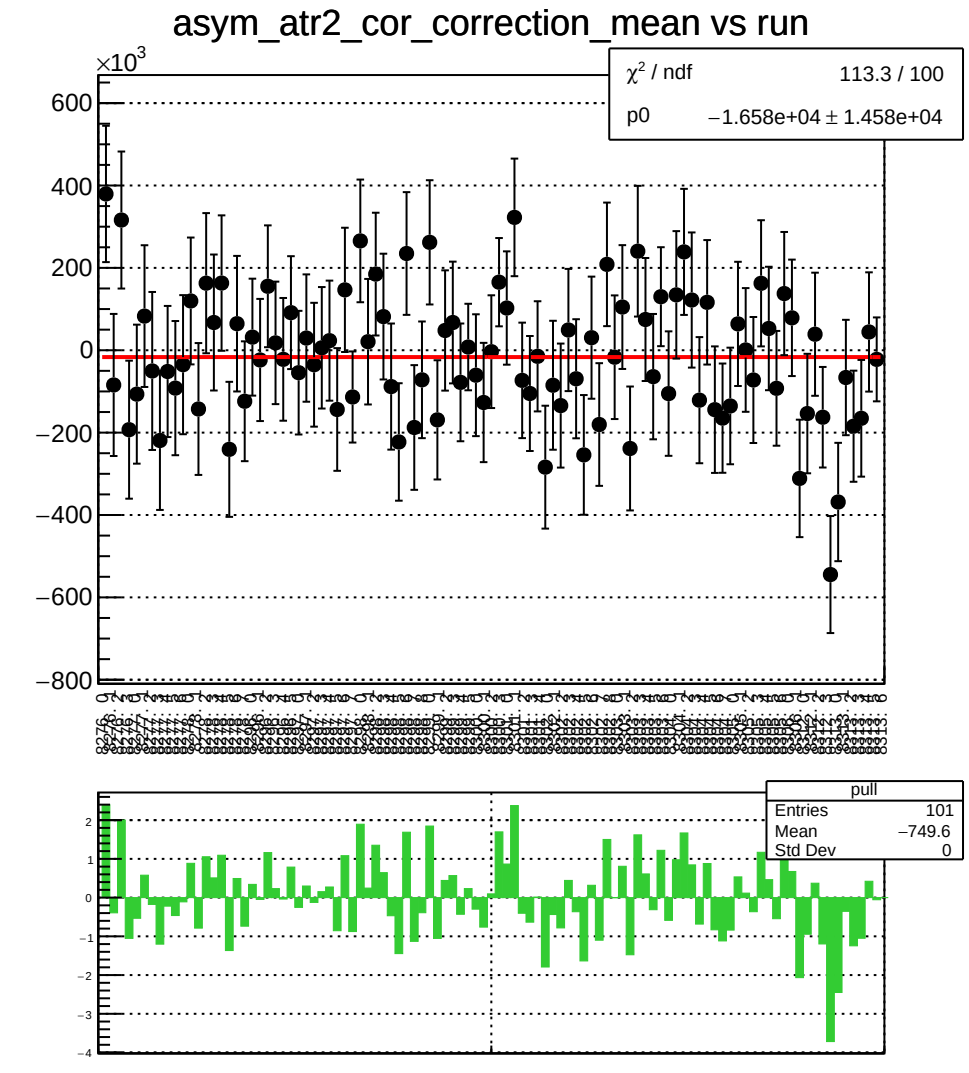

pull1D
Entries 101
Mean 0.007773
Std Dev 1.059

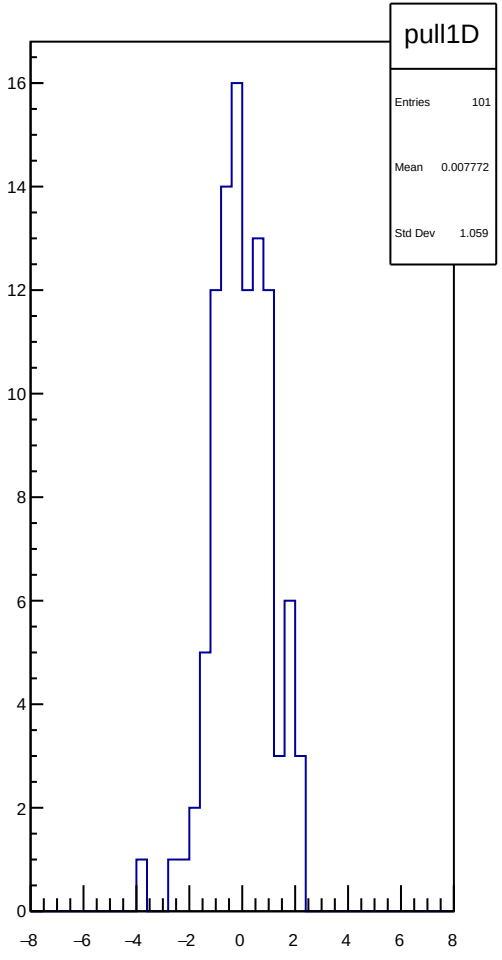

asym_atr2_reg_correction_rms vs run
χ² / ndf 6437 / 100
p0 1.429e+04 ± 10.31
18000
17000
16000
15000
14000
13000

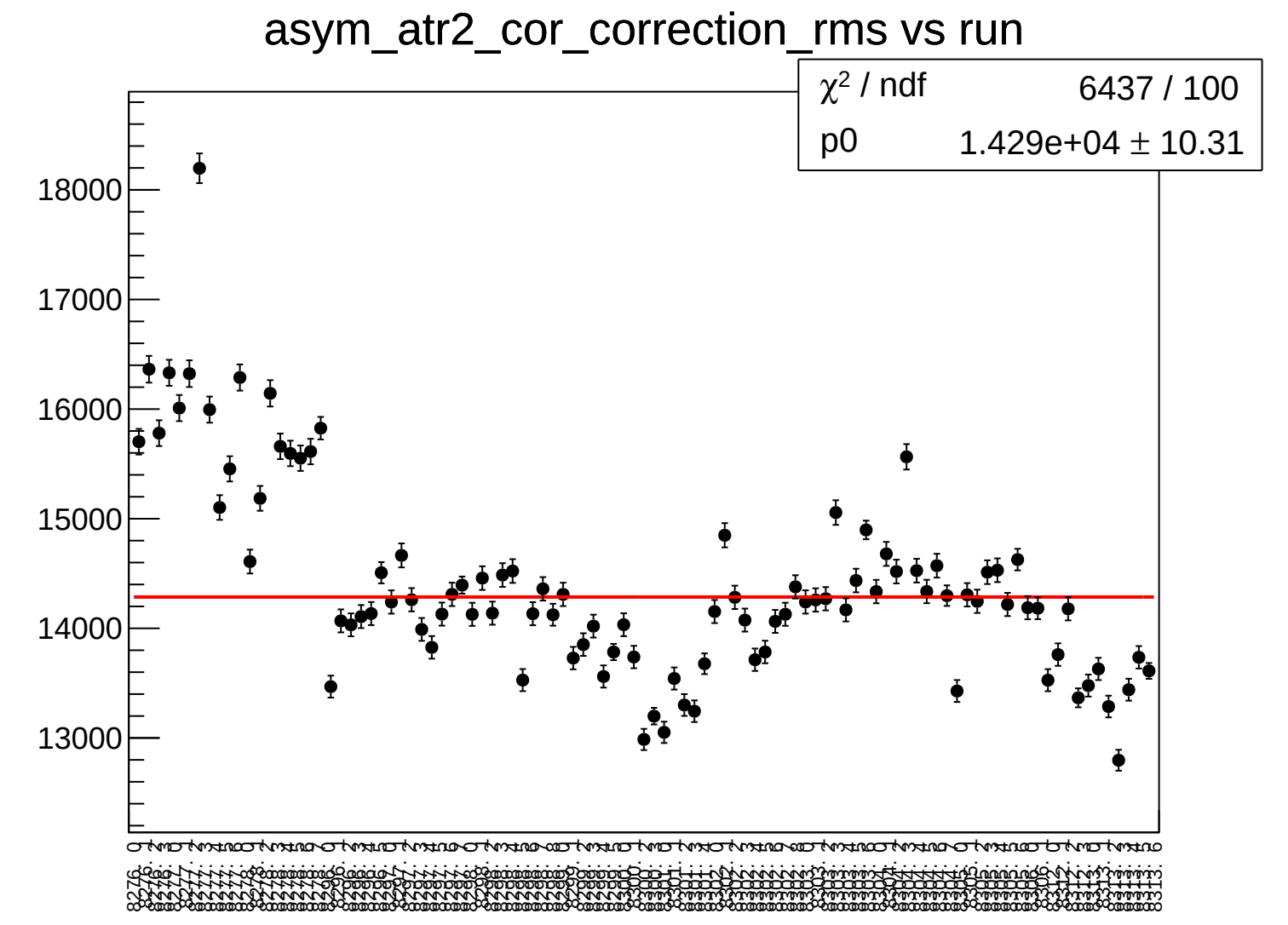

cor_asym_atr2_mean vs run
×10^3
χ^2 / ndf 103 / 100
p0 5626 ± 2871
100
50
0
−50
−100
pull
Entries 101
Mean 849.7
Std Dev 0
3
2
1
0
−1
−2
−3

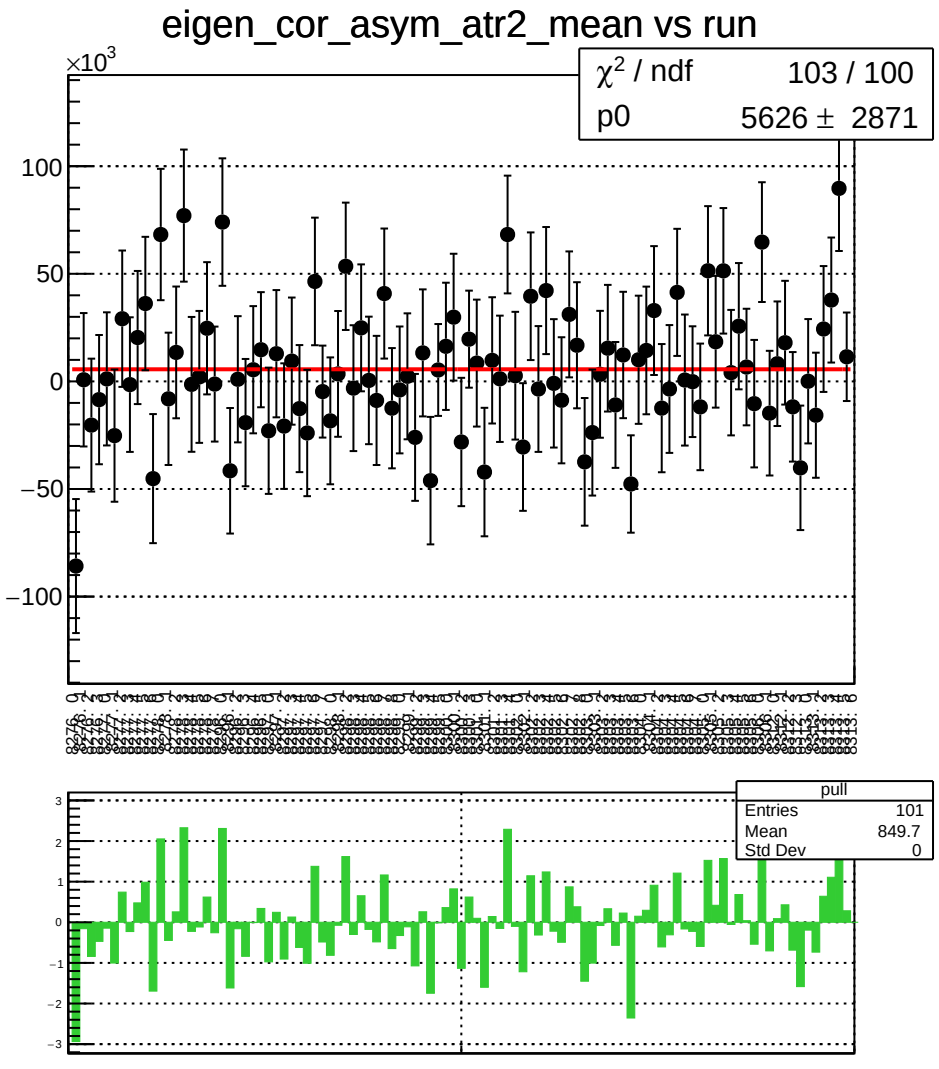

pull1D
Entries 101
Mean 0.004812
Std Dev 1.01
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

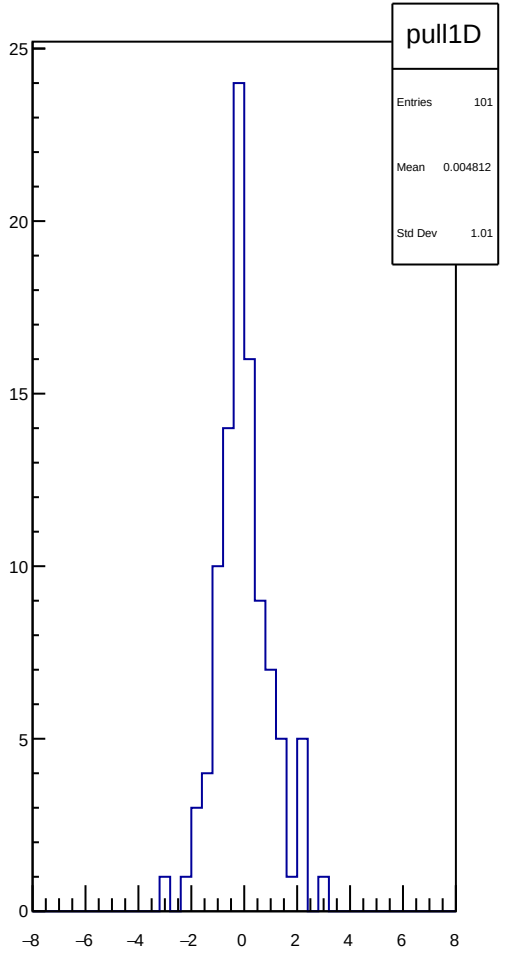

cor_asym_atr2_rms vs run
χ² / ndf 822.9 / 100
p0 2818 ± 2.03
3050
3000
2950
2900
2850
2800
2750
2700

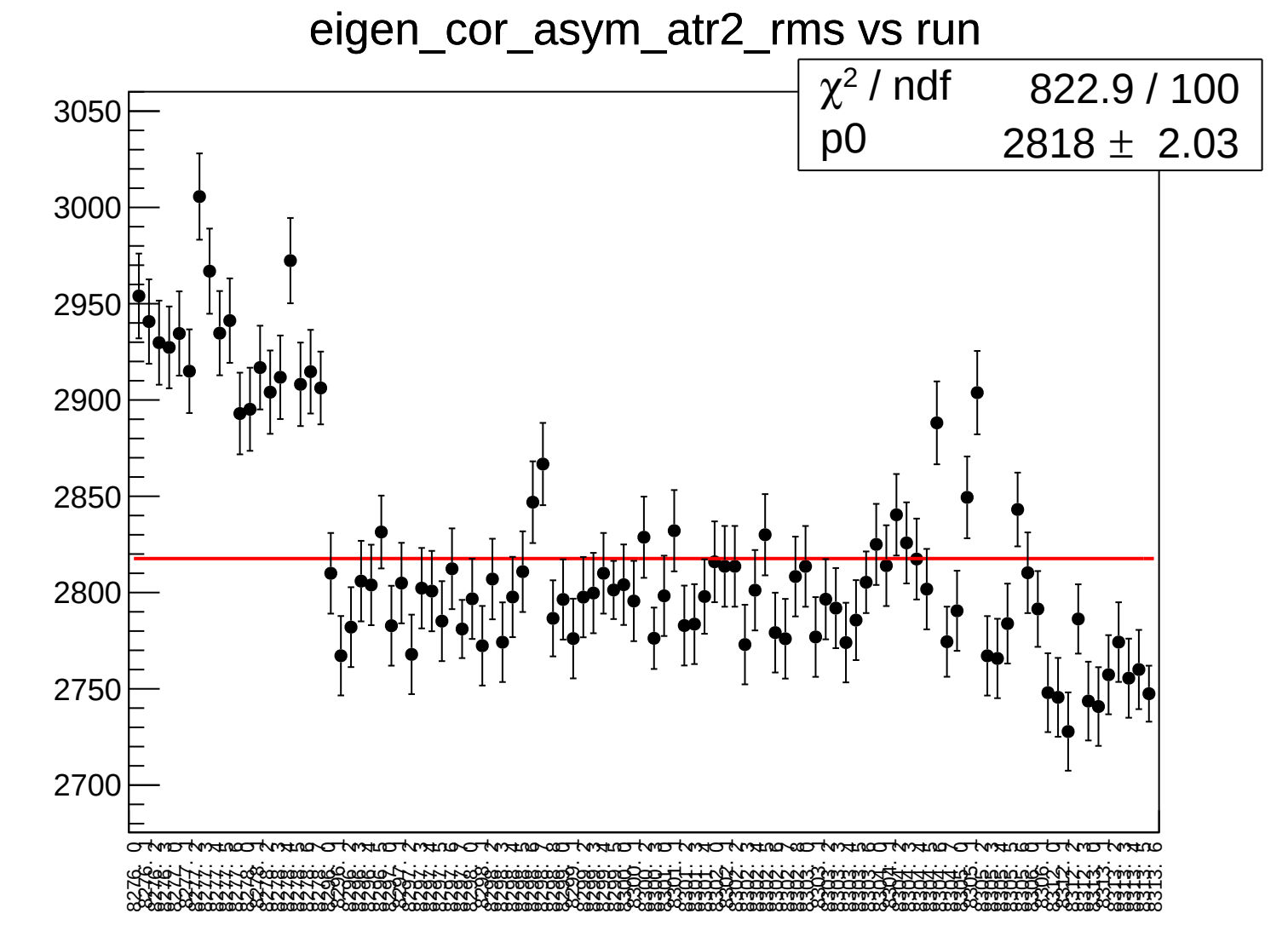

asym_atr2_cor_correction_mean vs run
×10^3
χ² / ndf 113.3 / 100
p0 −1.658e+04 ± 1.458e+04
pull
Entries 101
Mean −749.6
Std Dev 0

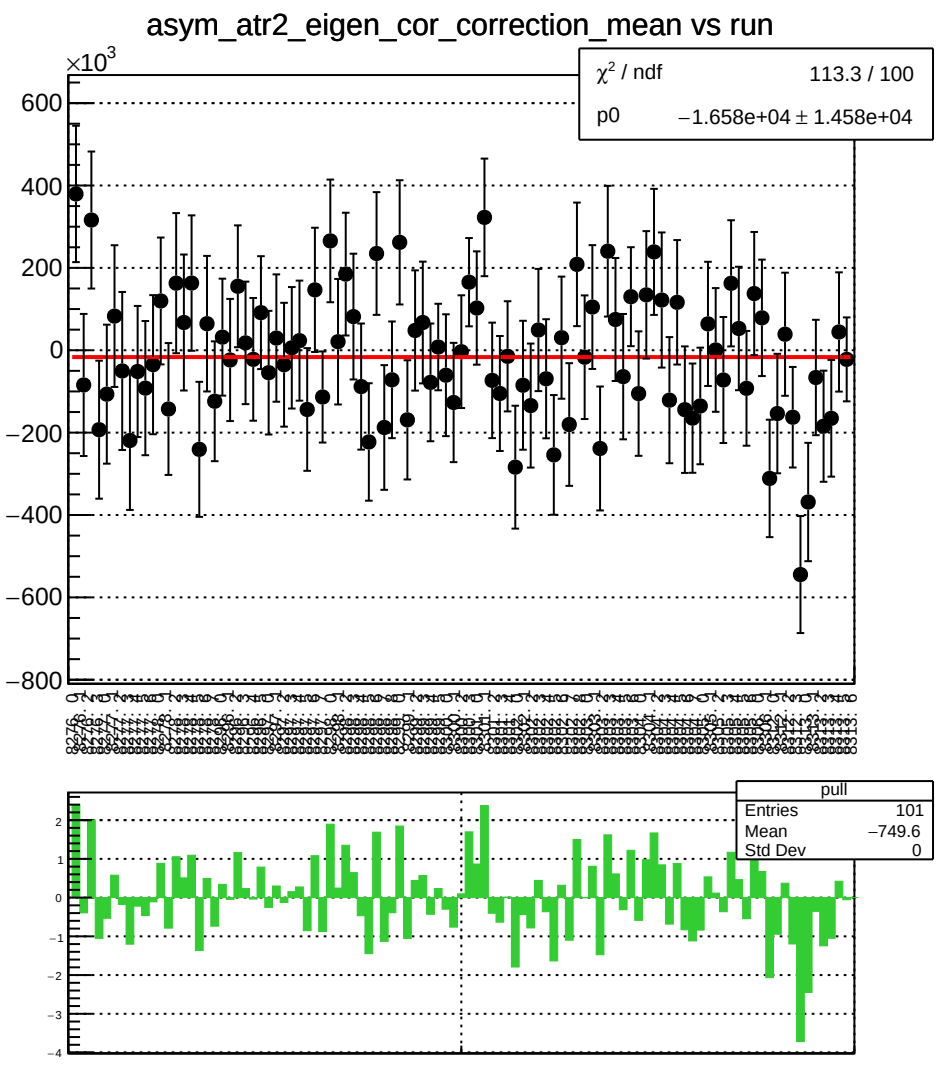

pull1D
Entries 101
Mean 0.007772
Std Dev 1.059

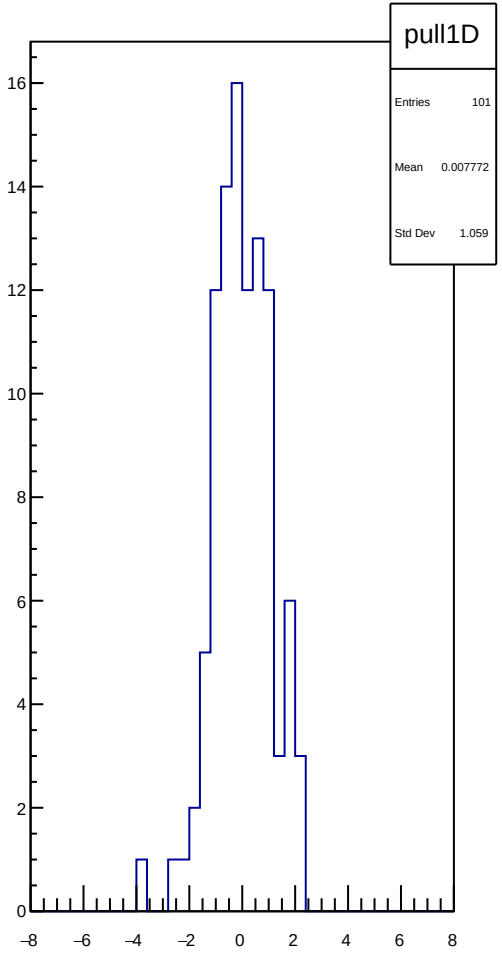

asym_atr2_cor_correction_rms vs run
χ² / ndf 6437 / 100
p0 1.429e+04 ± 10.31
18000
17000
16000
15000
14000
13000


eigen_cor_asym_atr2_mean vs run
×10^3
χ^2 / ndf 103 / 100
p0 5626 ± 2871
100
50
0
−50
−100
pull
Entries 101
Mean 849.7
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 101
Mean 0.004812
Std Dev 1.01
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_atr2_rms vs run
χ² / ndf 822.9 / 100
p0 2818 ± 2.03
3050
3000
2950
2900
2850
2800
2750
2700


asym_atr2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 113.3 / 100
p0 −1.658e+04 ± 1.458e+04
600
400
200
0
−200
−400
−600
−800
pull
Entries 101
Mean −749.6
Std Dev 0
2
1
0
−1
−2
−3
−4


pull1D
Entries 101
Mean 0.007772
Std Dev 1.059
16
14
12
10
8
6
4
2
0
−8
−6
−4
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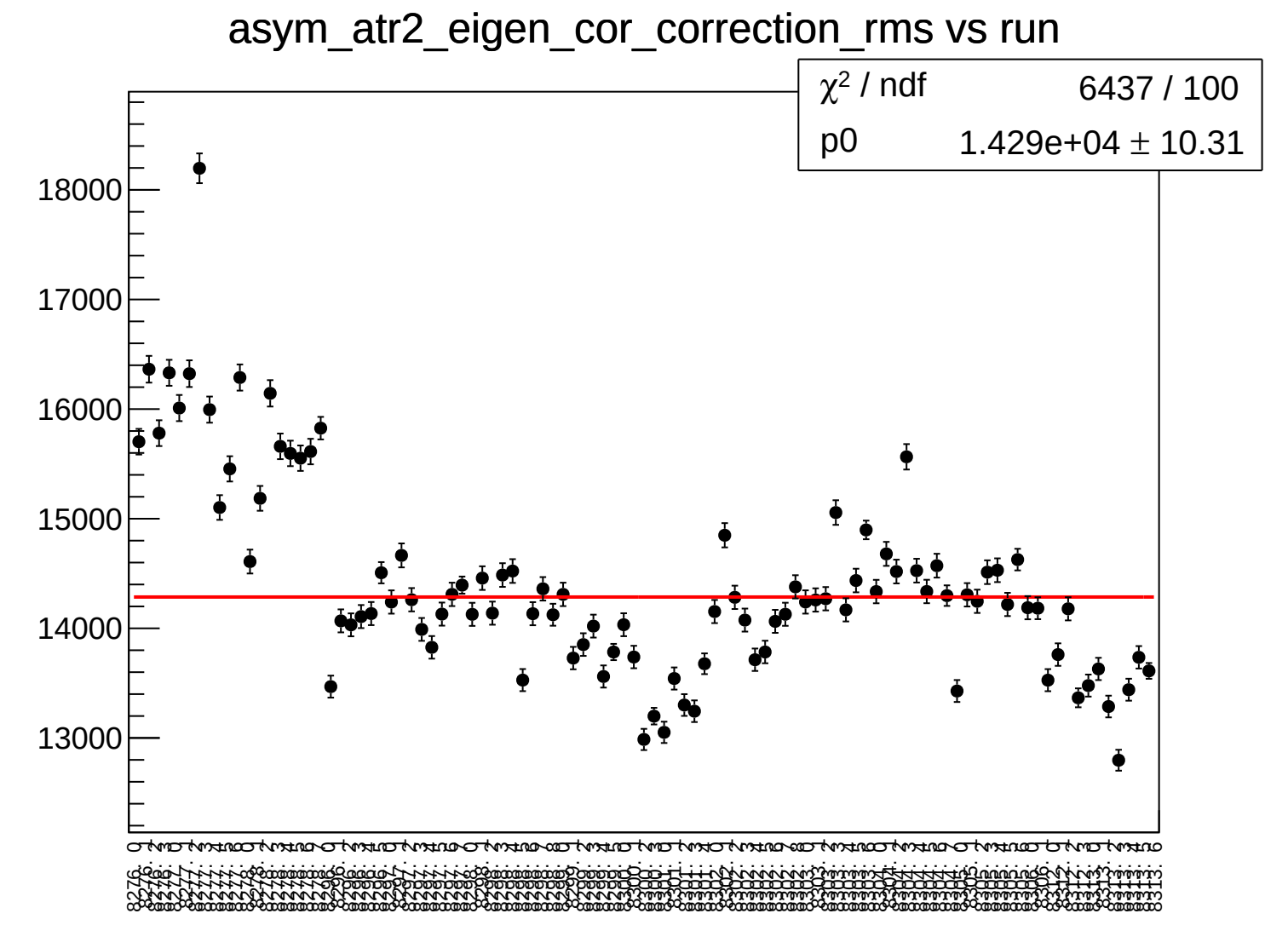
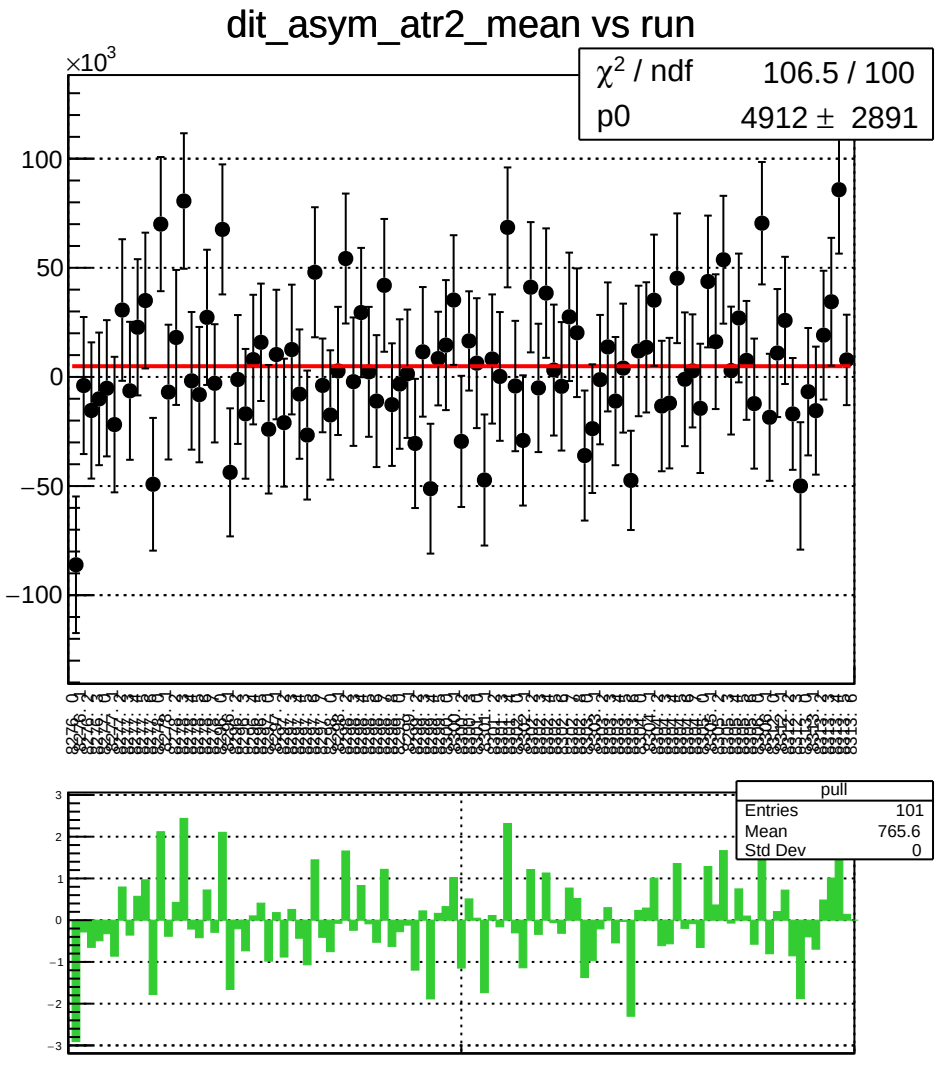
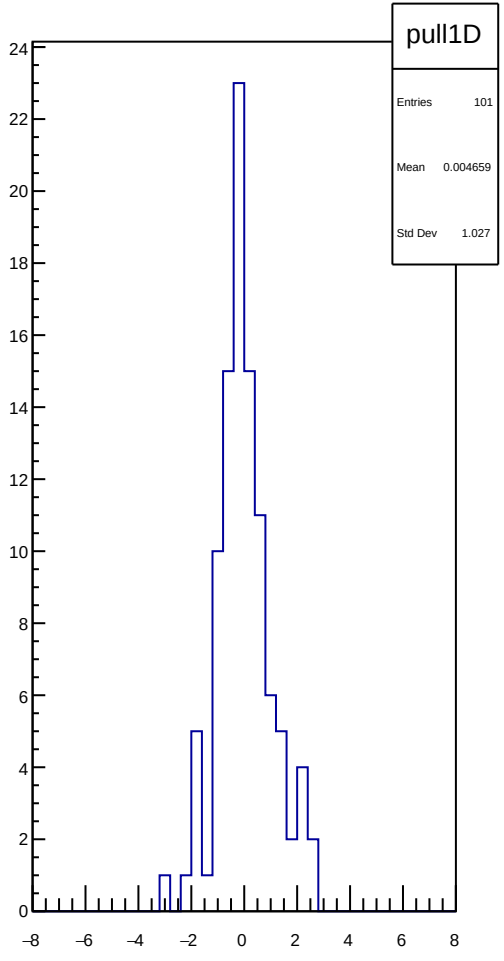
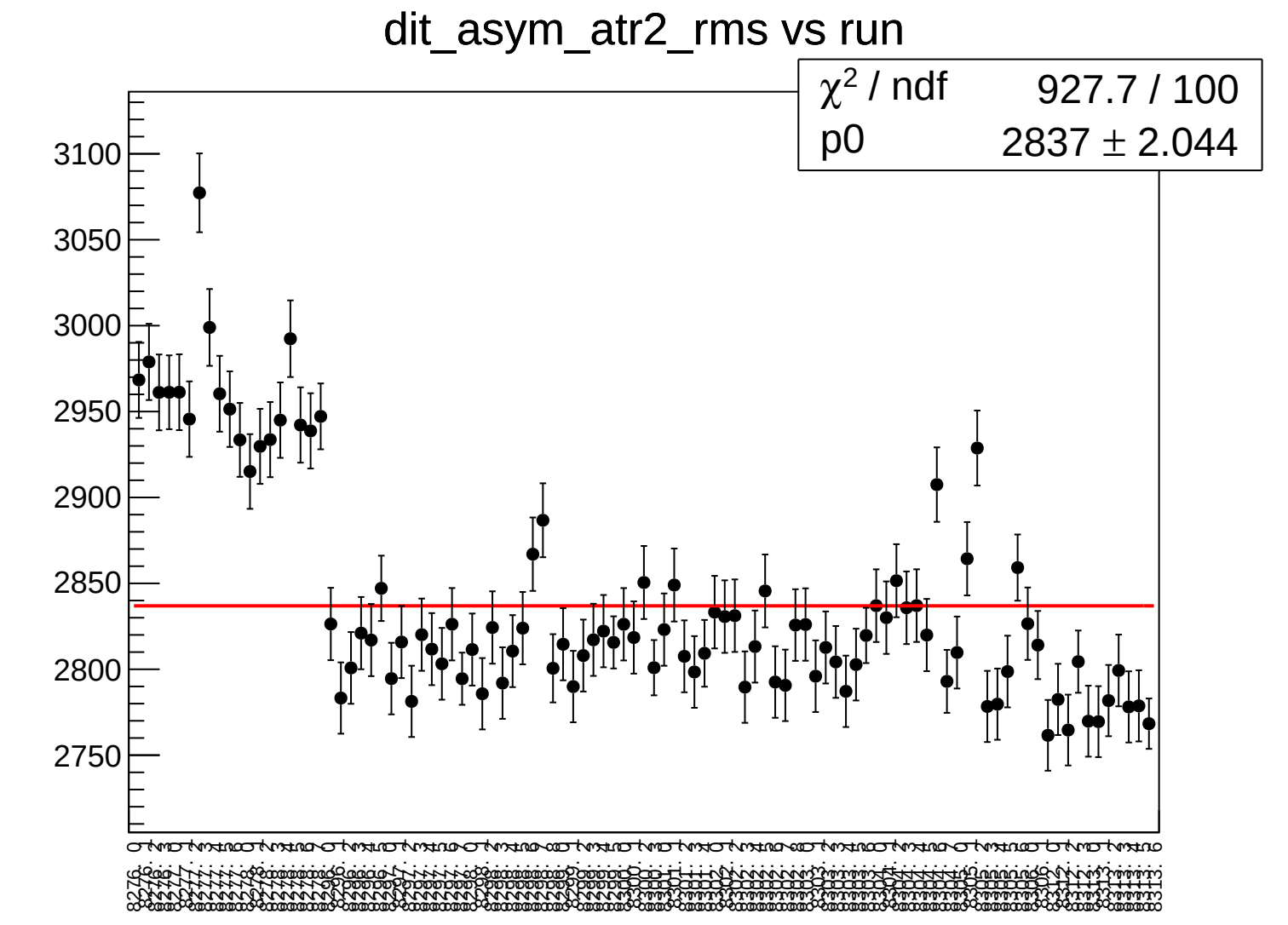
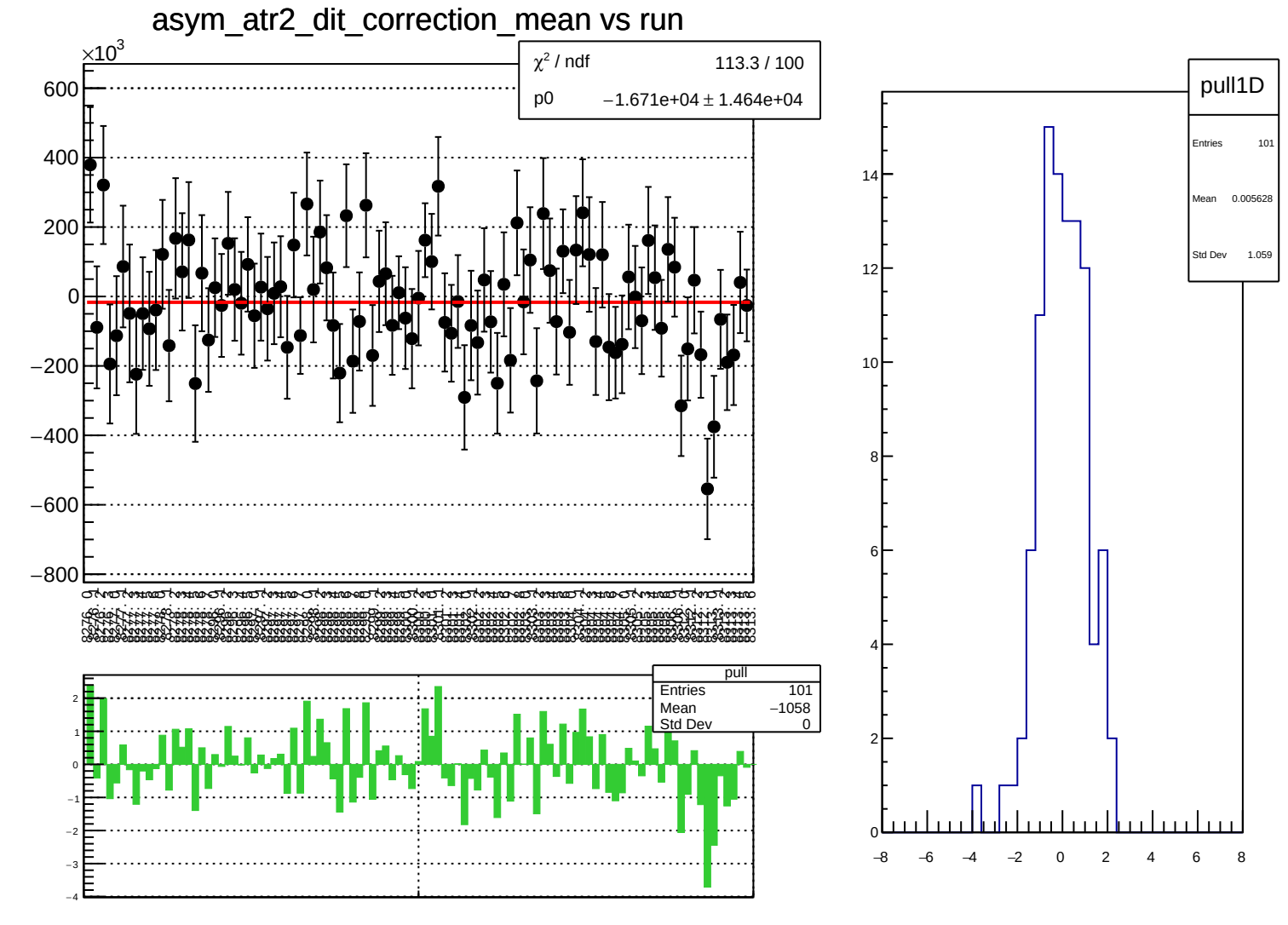
0
2
4
6
8

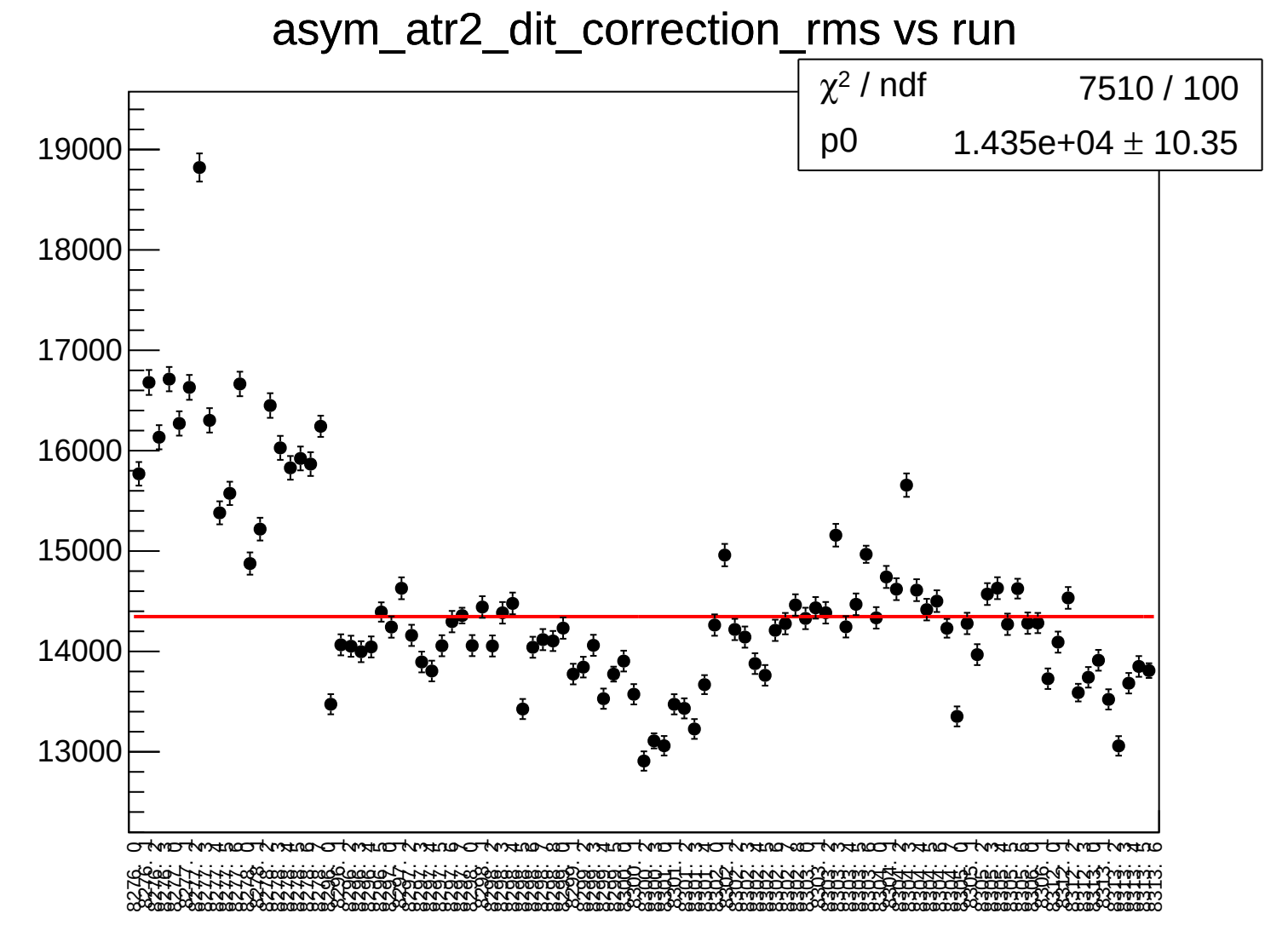

asym_atr2_eigen_cor_correction_rms vs run
χ² / ndf 6437 / 100
p0 1.429e+04 ± 10.31
18000
17000
16000
15000
14000
13000

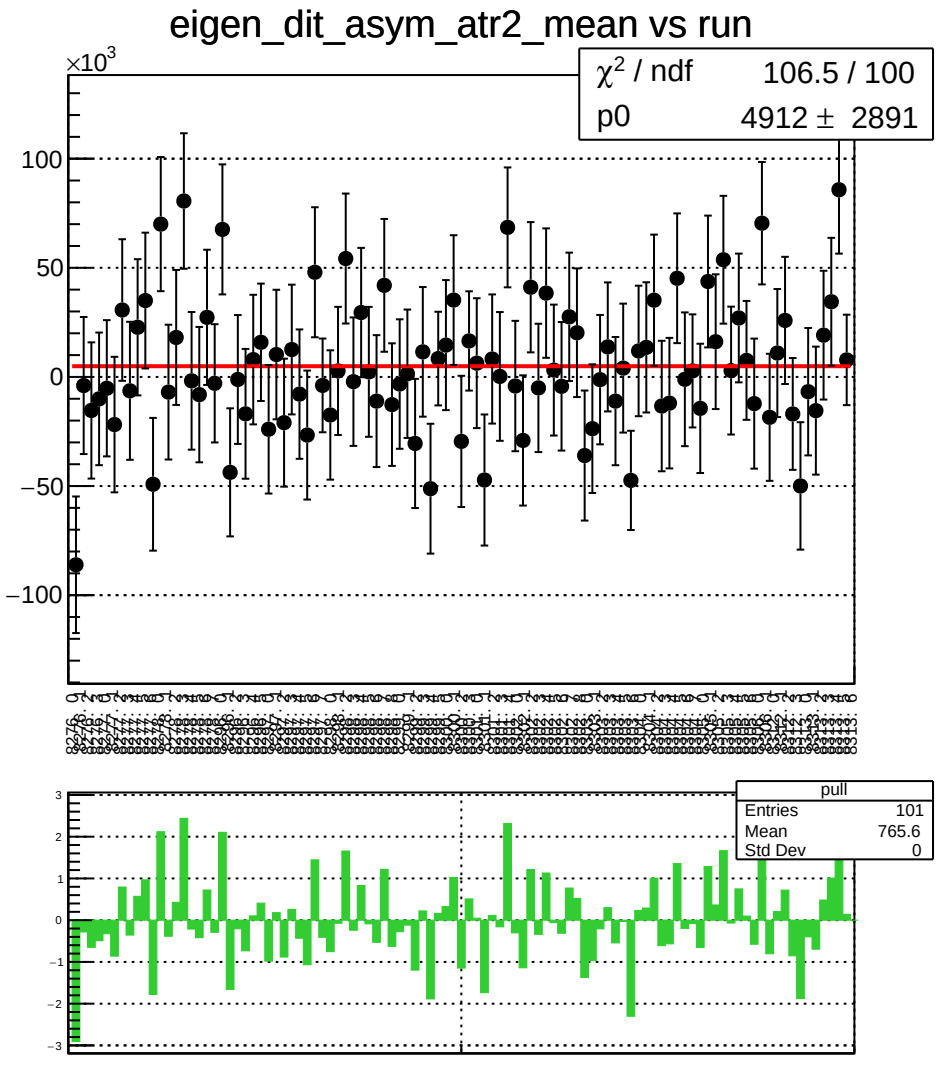

dit_asym_atr2_mean vs run
×10^3
χ^2 / ndf 106.5 / 100
p0 4912 ± 2891
100
50
0
−50
−100
pull
Entries 101
Mean 765.6
Std Dev 0
3
2
1
0
−1
−2
−3

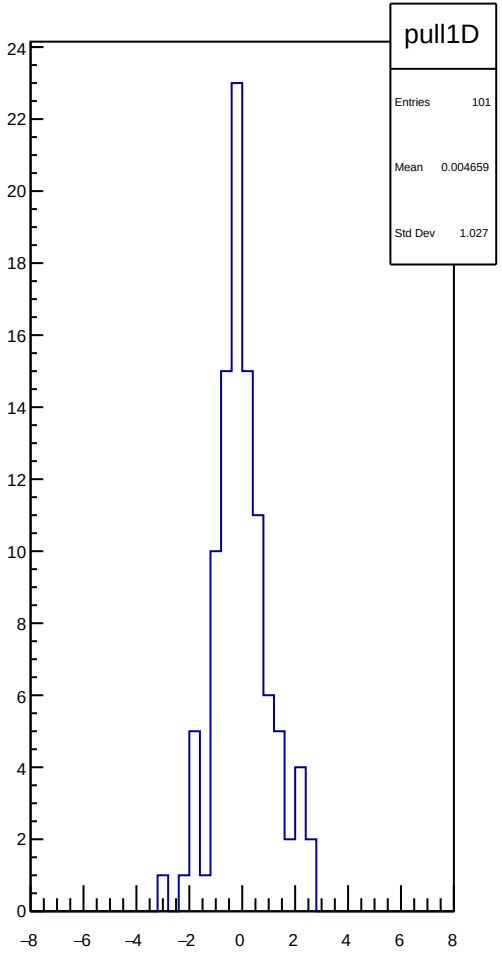

pull1D
Entries 101
Mean 0.004659
Std Dev 1.027
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

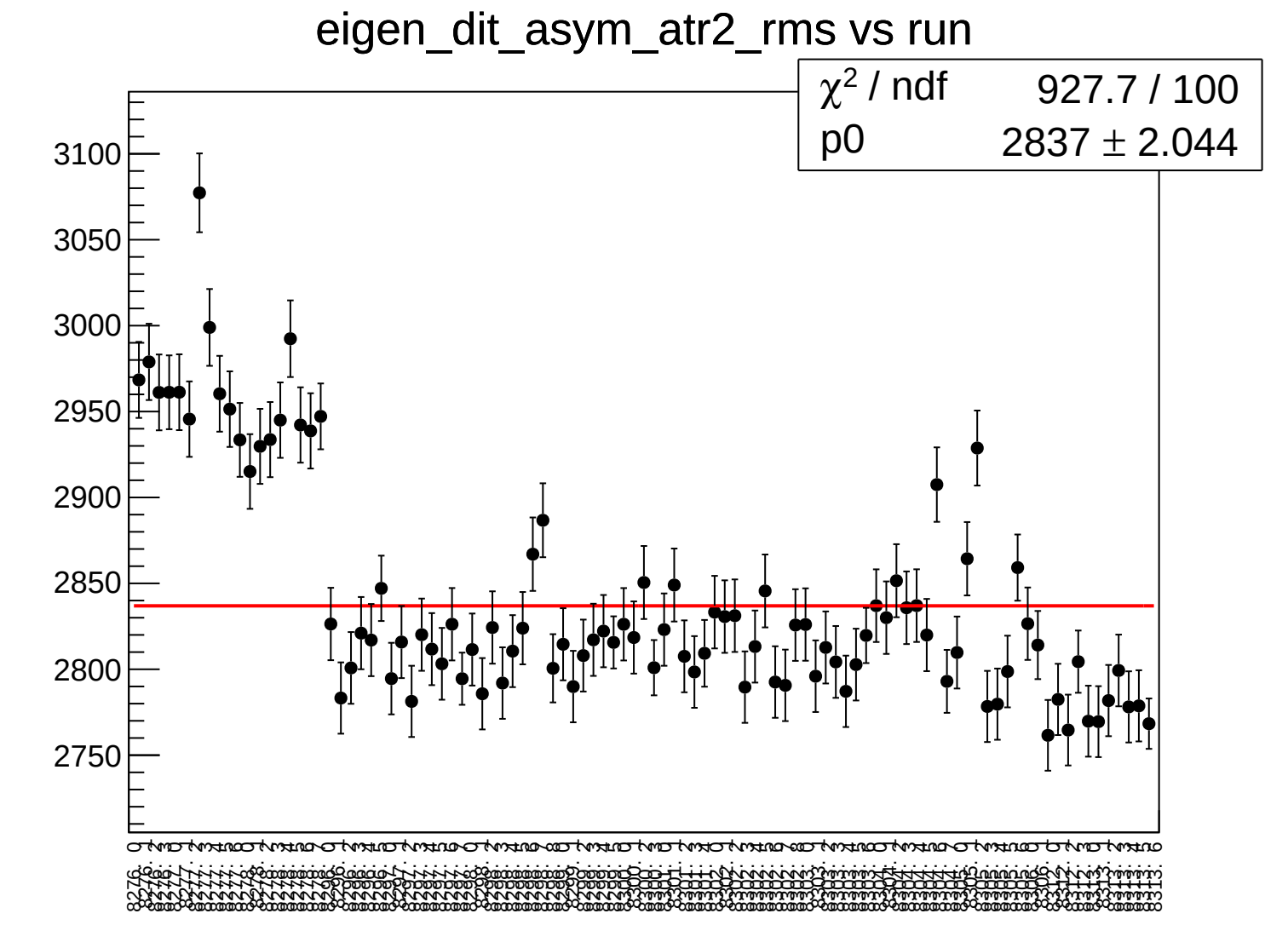

dit_asym_atr2_rms vs run
χ^2 / ndf 927.7 / 100
p0 2837 ± 2.044
3100
3050
3000
2950
2900
2850
2800
2750

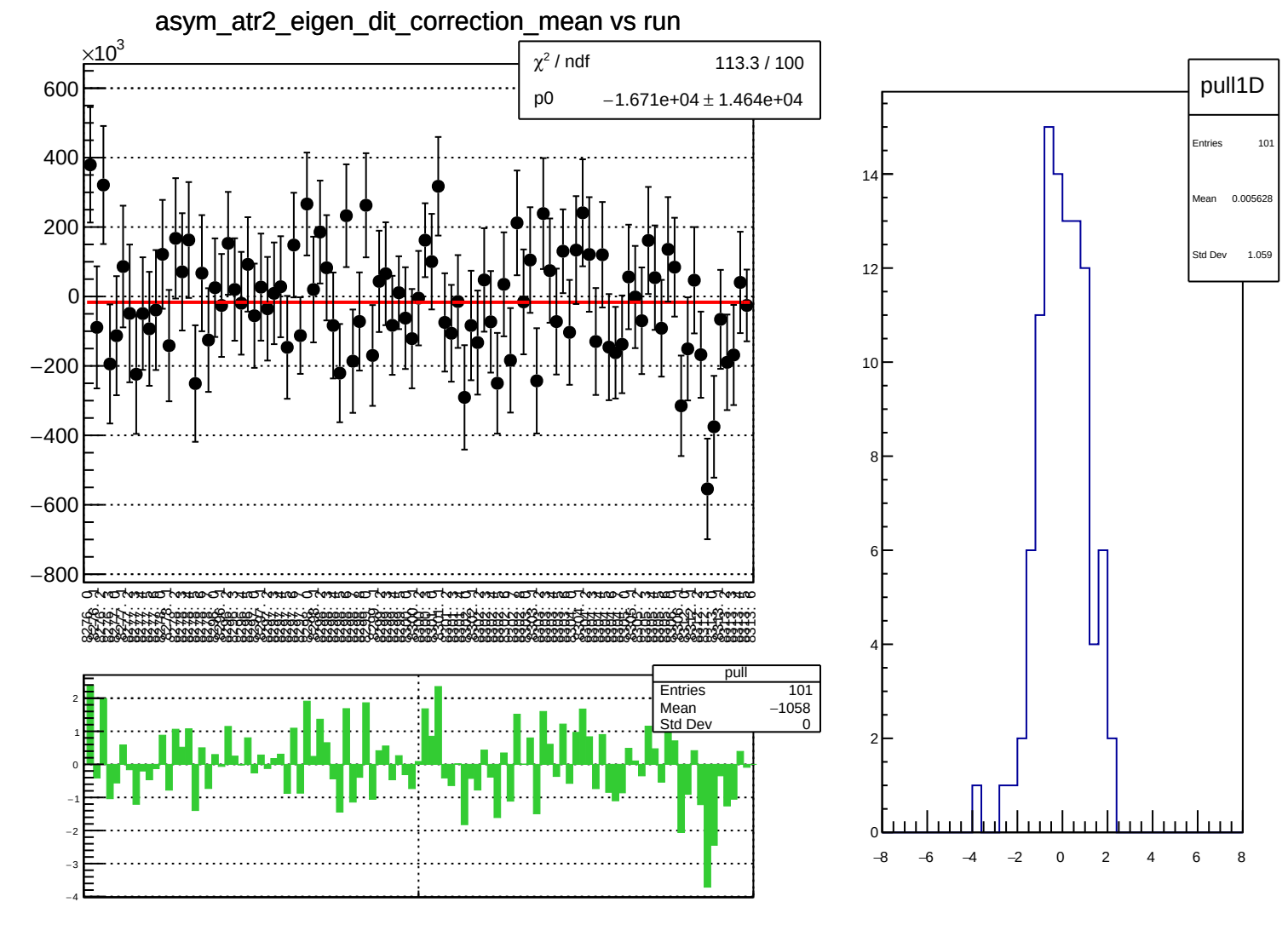

asym_atr2_dit_correction_mean vs run
×10^3
χ² / ndf 113.3 / 100
p0 −1.671e+04 ± 1.464e+04
pull
Entries 101
Mean −1058
Std Dev 0
pull1D
Entries 101
Mean 0.005628
Std Dev 1.059

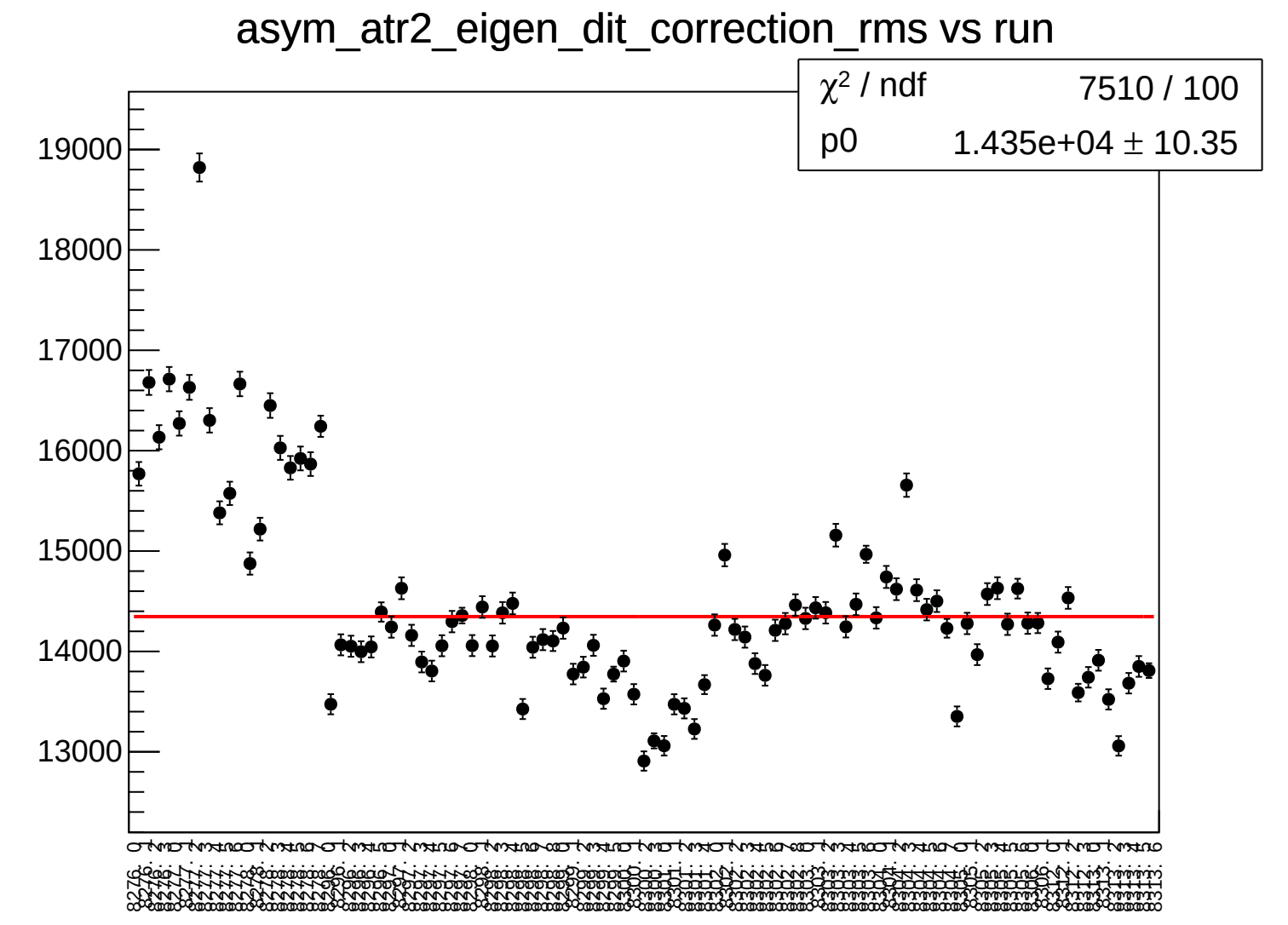

asym_atr2_dit_correction_rms vs run
χ² / ndf 7510 / 100
p0 1.435e+04 ± 10.35
19000
18000
17000
16000
15000
14000
13000

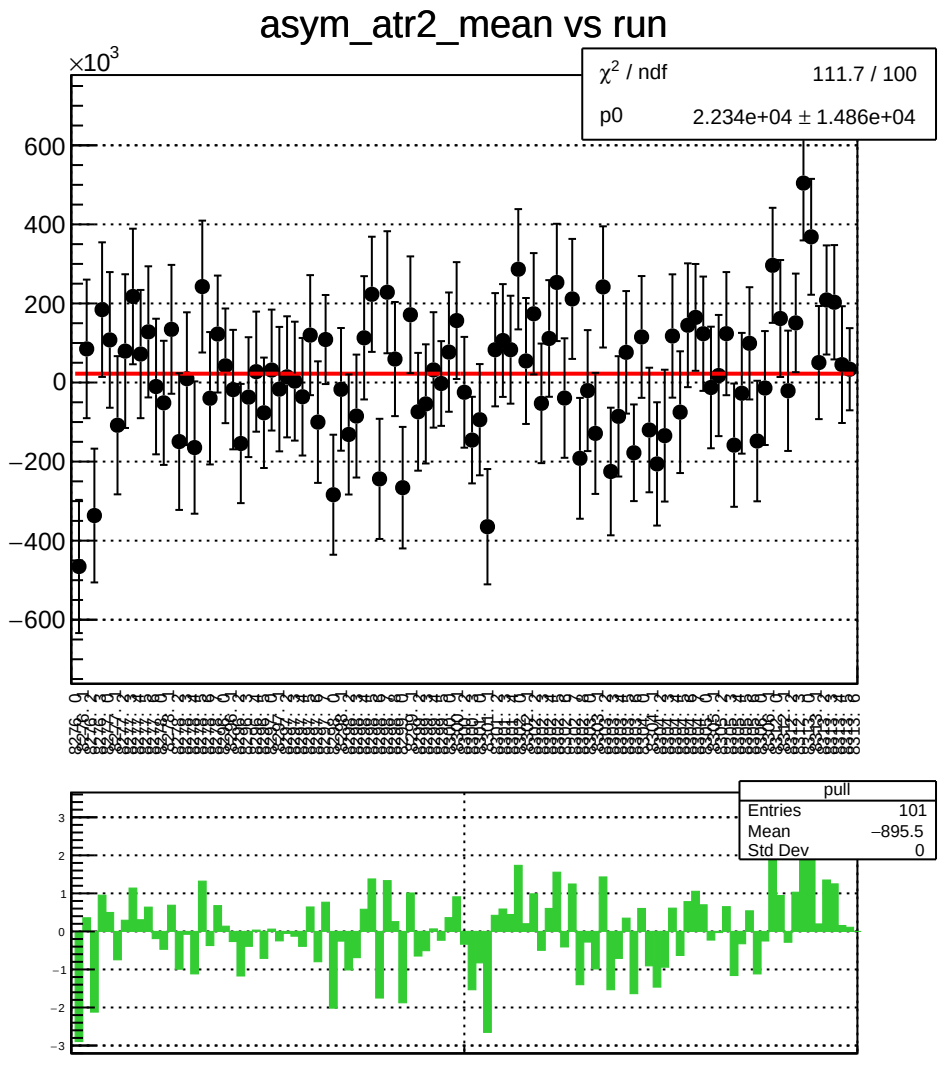

eigen_dit_asym_atr2_mean vs run
×10^3
χ^2 / ndf 106.5 / 100
p0 4912 ± 2891
100
50
0
−50
−100
pull
Entries 101
Mean 765.6
Std Dev 0
3
2
1
0
−1
−2
−3

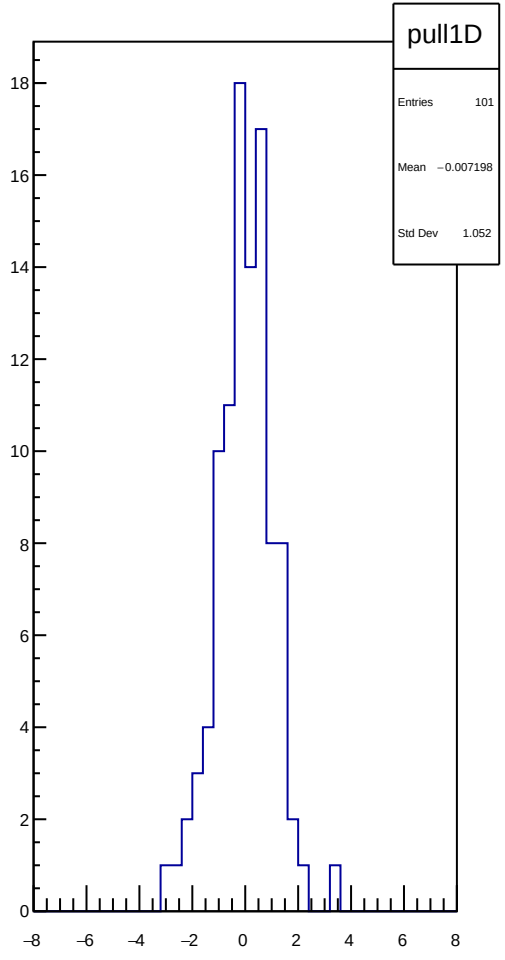

pull1D
Entries 101
Mean 0.004659
Std Dev 1.027
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

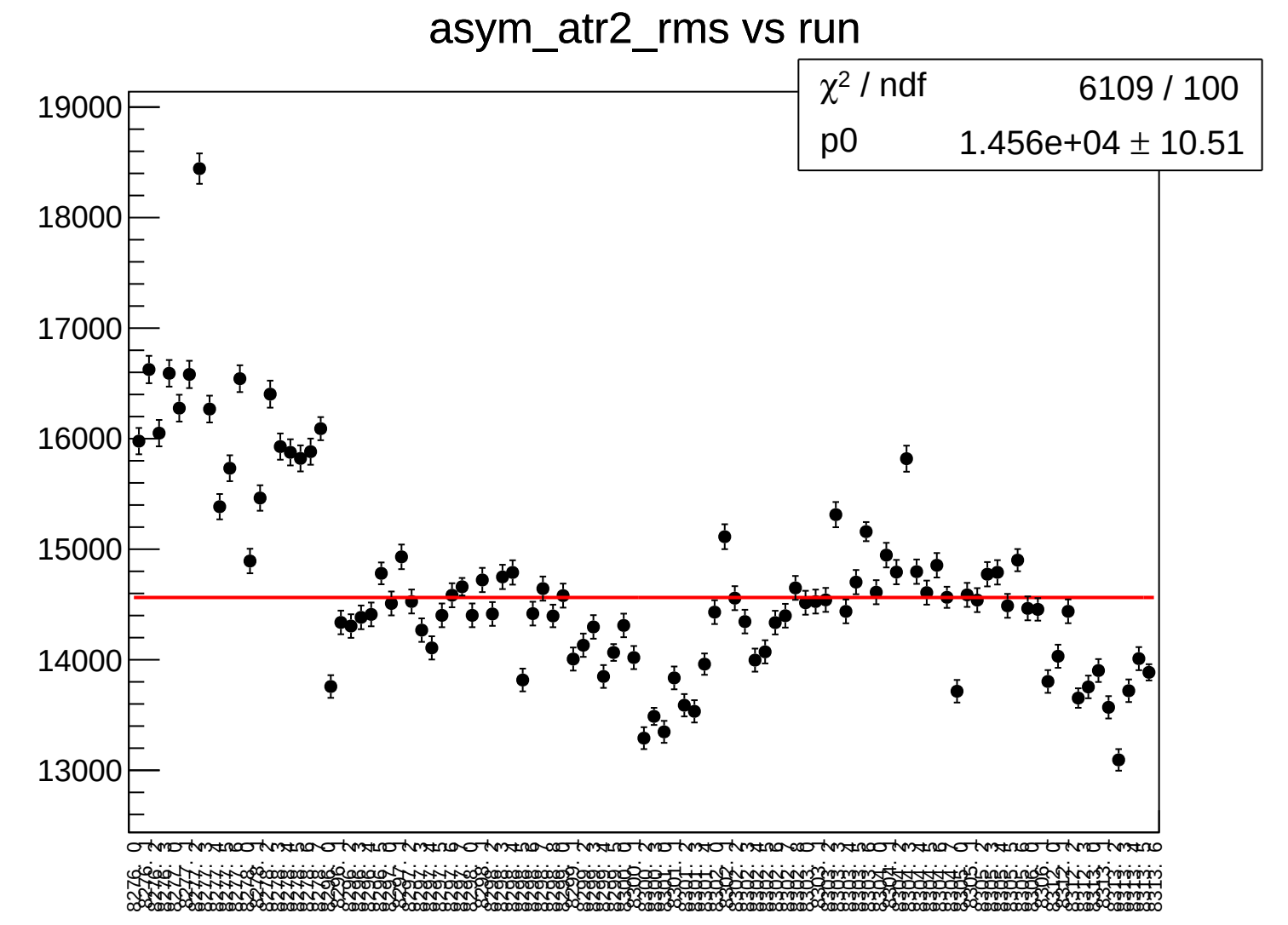

eigen_dit_asym_atr2_rms vs run
χ² / ndf 927.7 / 100
p0 2837 ± 2.044
3100
3050
3000
2950
2900
2850
2800
2750

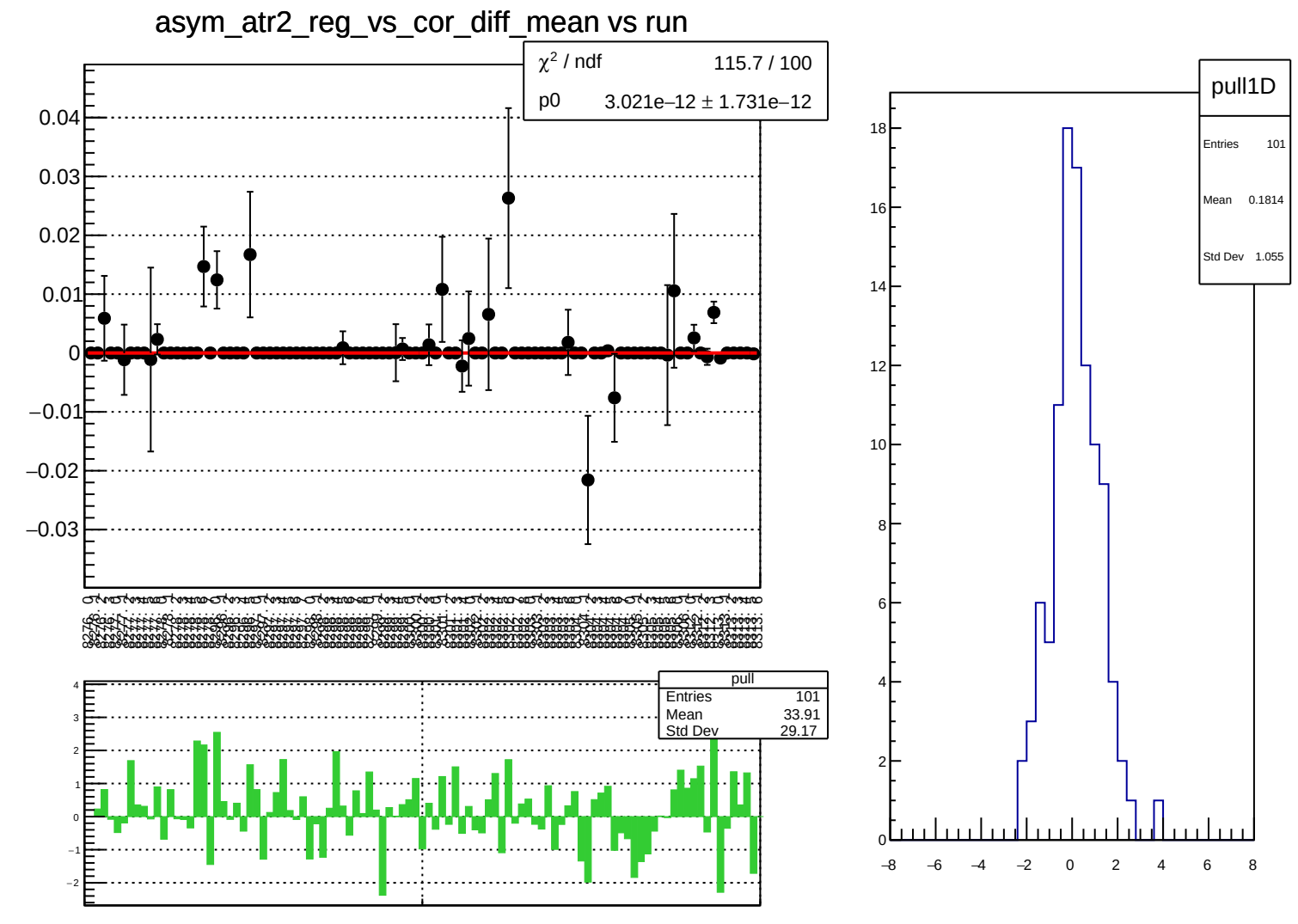

asym_atr2_eigen_dit_correction_mean vs run
×10^3
600
400
200
0
−200
−400
−600
−800
χ² / ndf 113.3 / 100
p0 −1.671e+04 ± 1.464e+04
pull
Entries 101
Mean −1058
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 101
Mean 0.005628
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

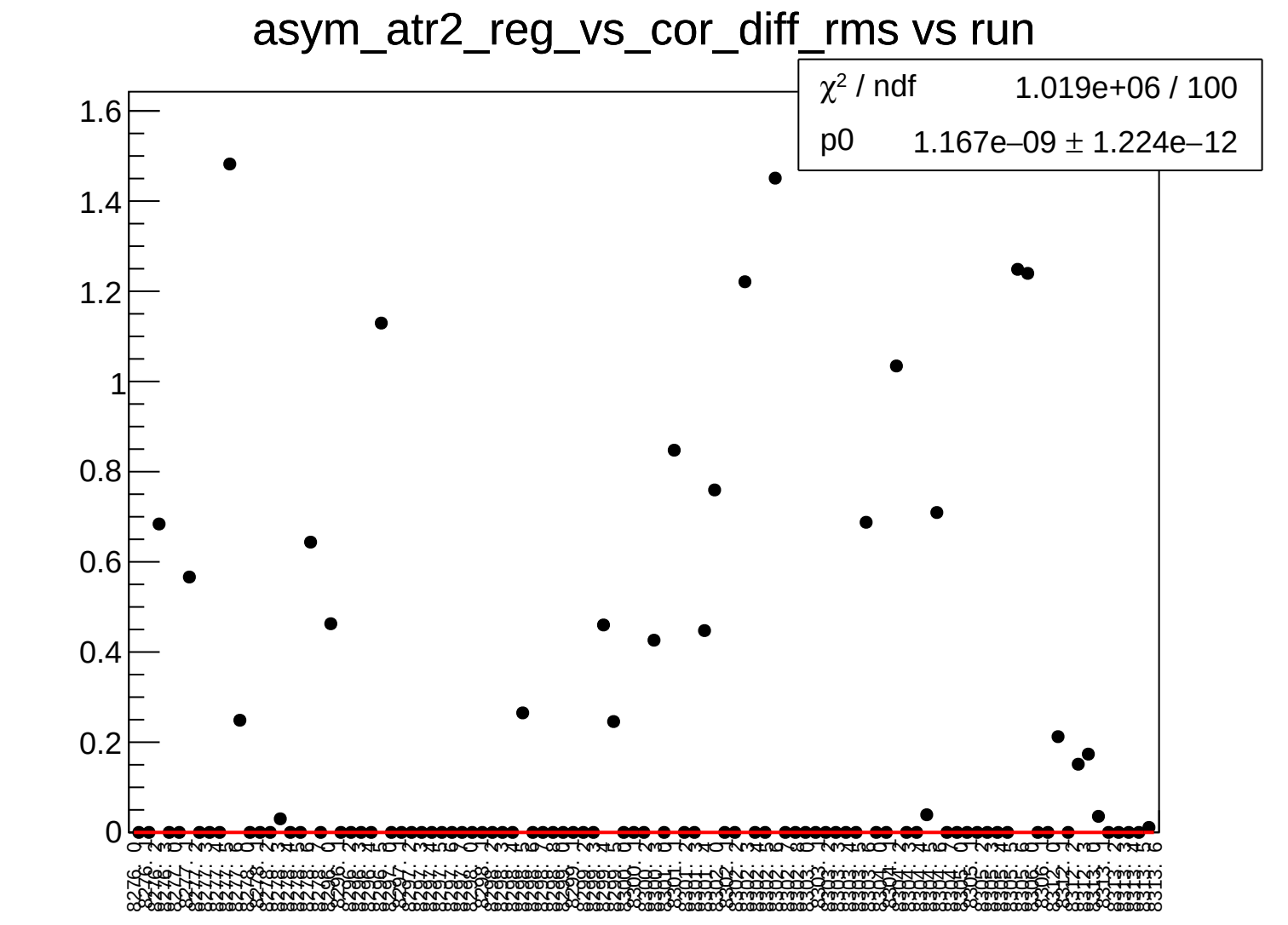

asym_atr2_eigen_dit_correction_rms vs run
χ² / ndf 7510 / 100
p0 1.435e+04 ± 10.35
19000
18000
17000
16000
15000
14000
13000

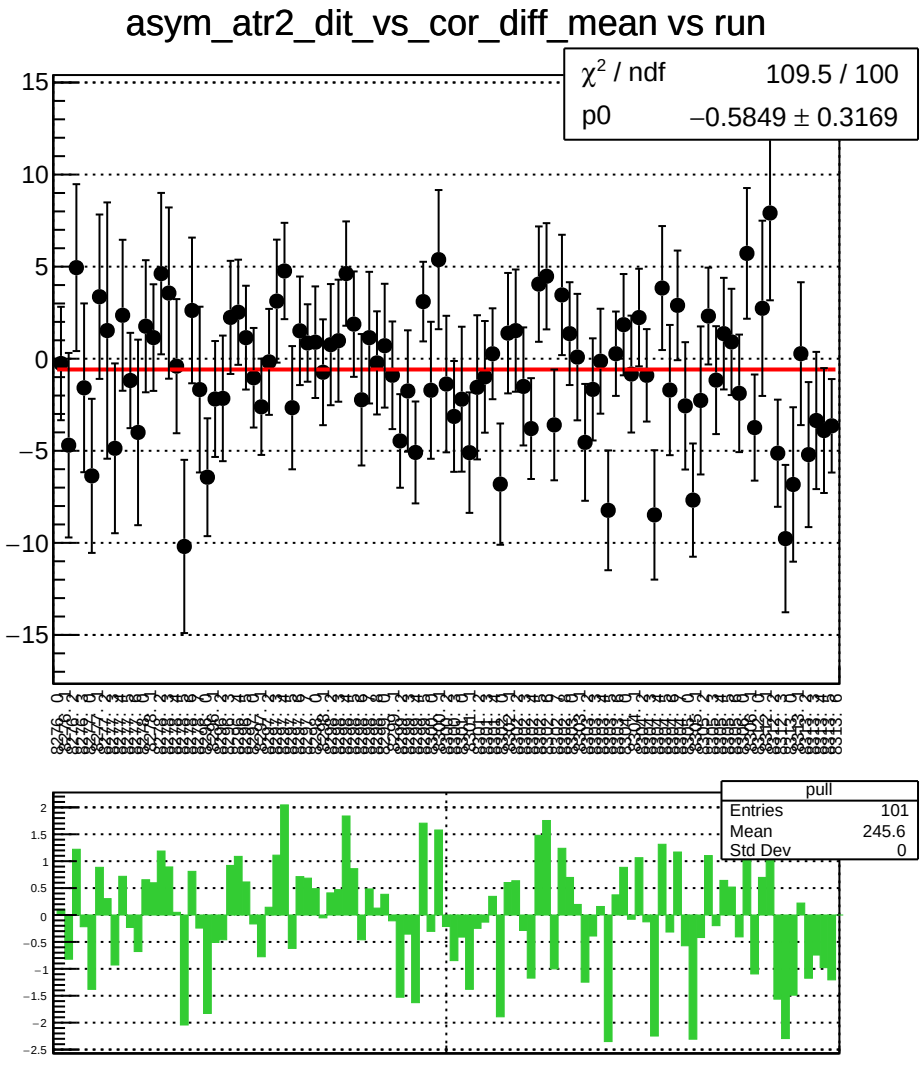

asym_atr2_mean vs run
×10^3
χ² / ndf 111.7 / 100
p0 2.234e+04 ± 1.486e+04
600
400
200
0
−200
−400
−600
pull
Entries 101
Mean −895.5
Std Dev 0
3
2
1
0
−1
−2
−3

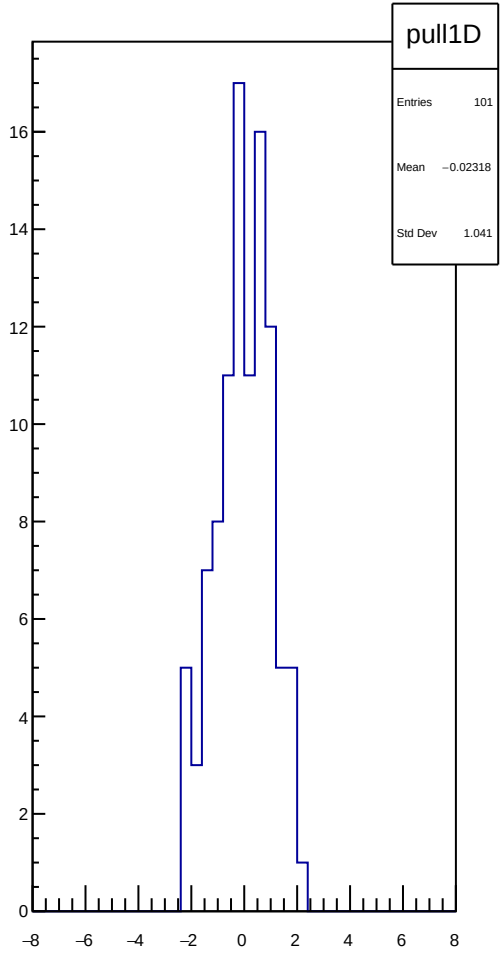

pull1D
Entries 101
Mean −0.007198
Std Dev 1.052
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

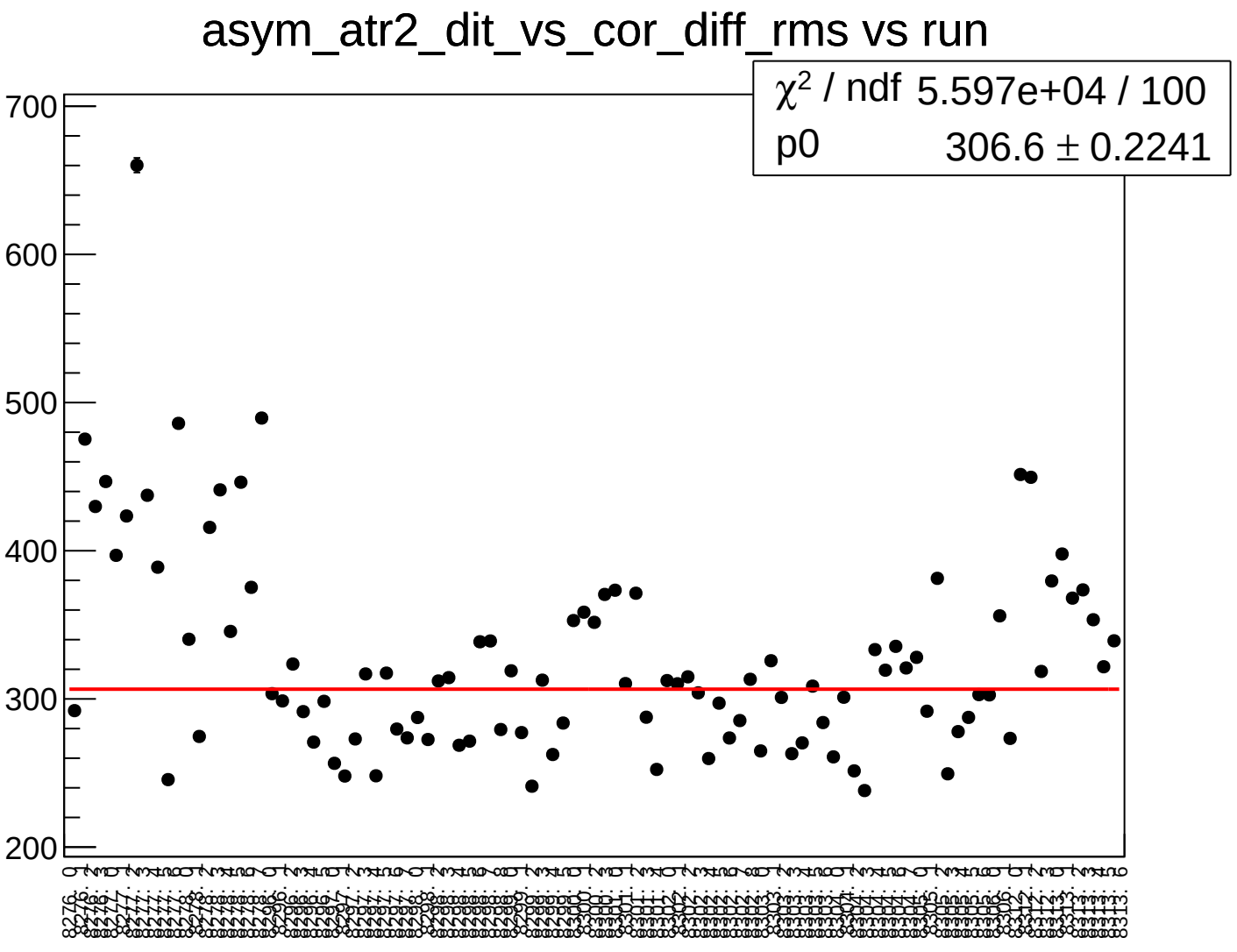

asym_atr2_rms vs run
χ² / ndf 6109 / 100
p0 1.456e+04 ± 10.51
19000
18000
17000
16000
15000
14000
13000

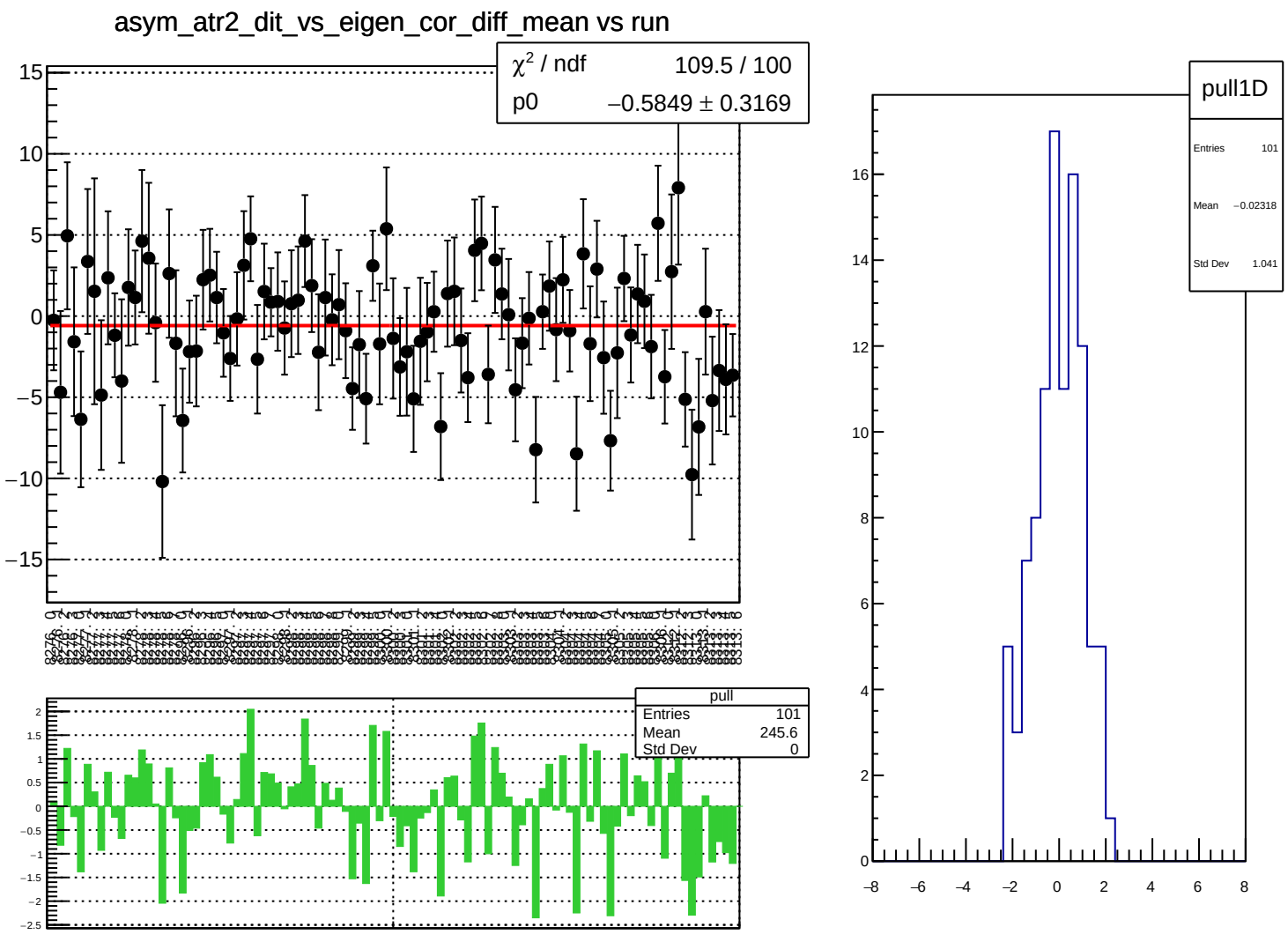

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 115.7 / 100
p0 3.021e−12 ± 1.731e−12
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 101
Mean 33.91
Std Dev 29.17
4
3
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.1814
Std Dev 1.055
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

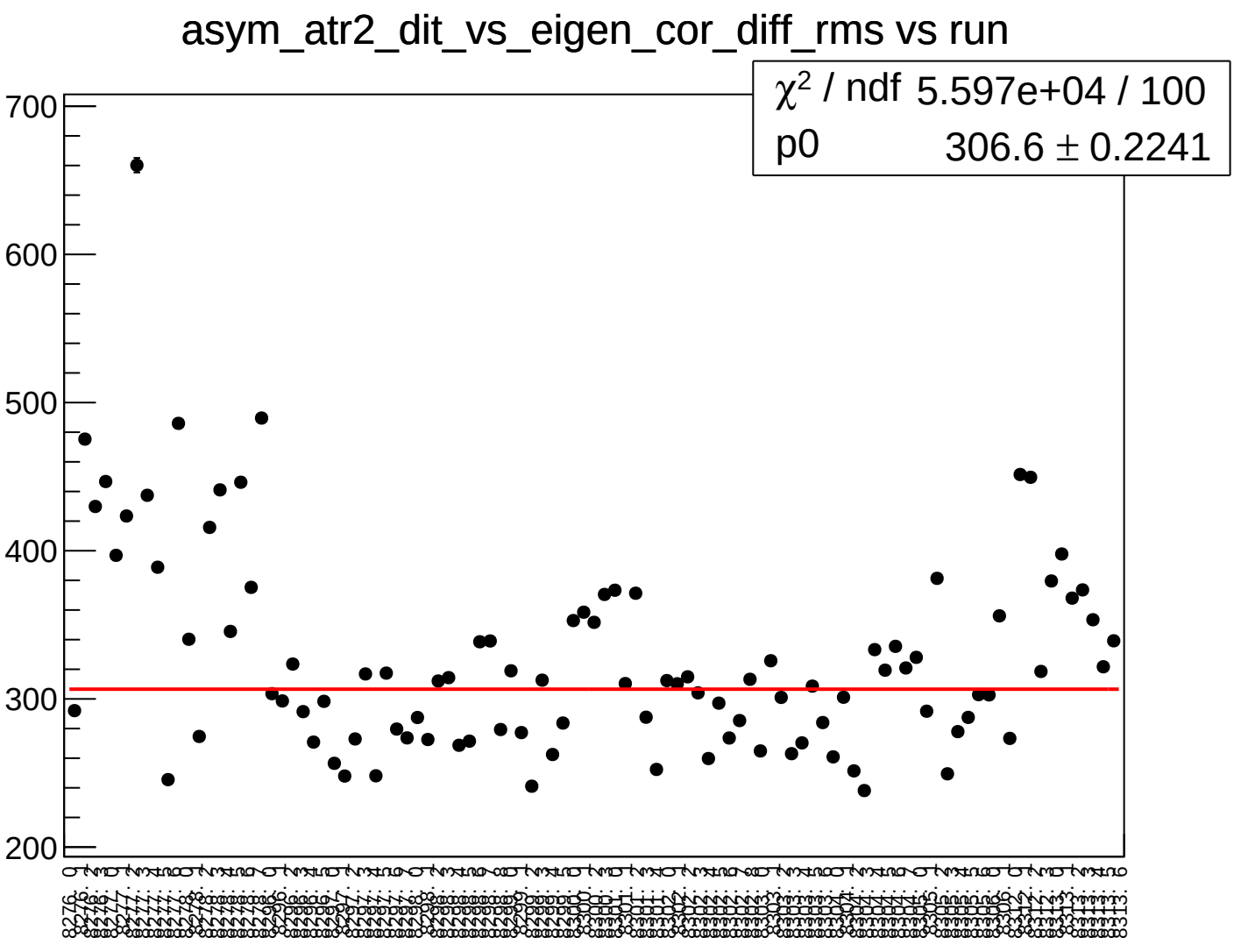

asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.019e+06 / 100
p0 1.167e−09 ± 1.224e−12
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

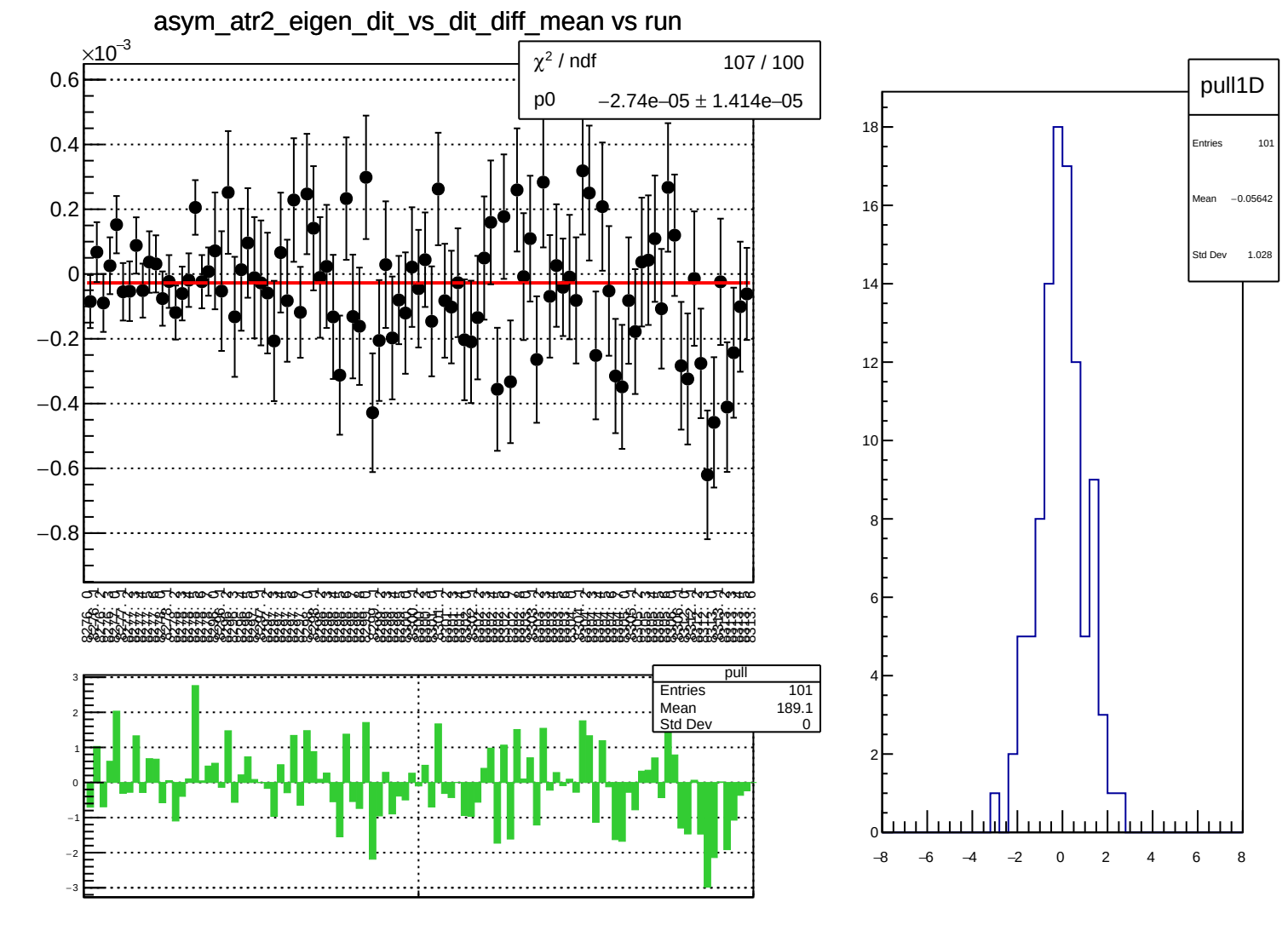

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 109.5 / 100
p0 −0.5849 ± 0.3169
pull
Entries 101
Mean 245.6
Std Dev 0

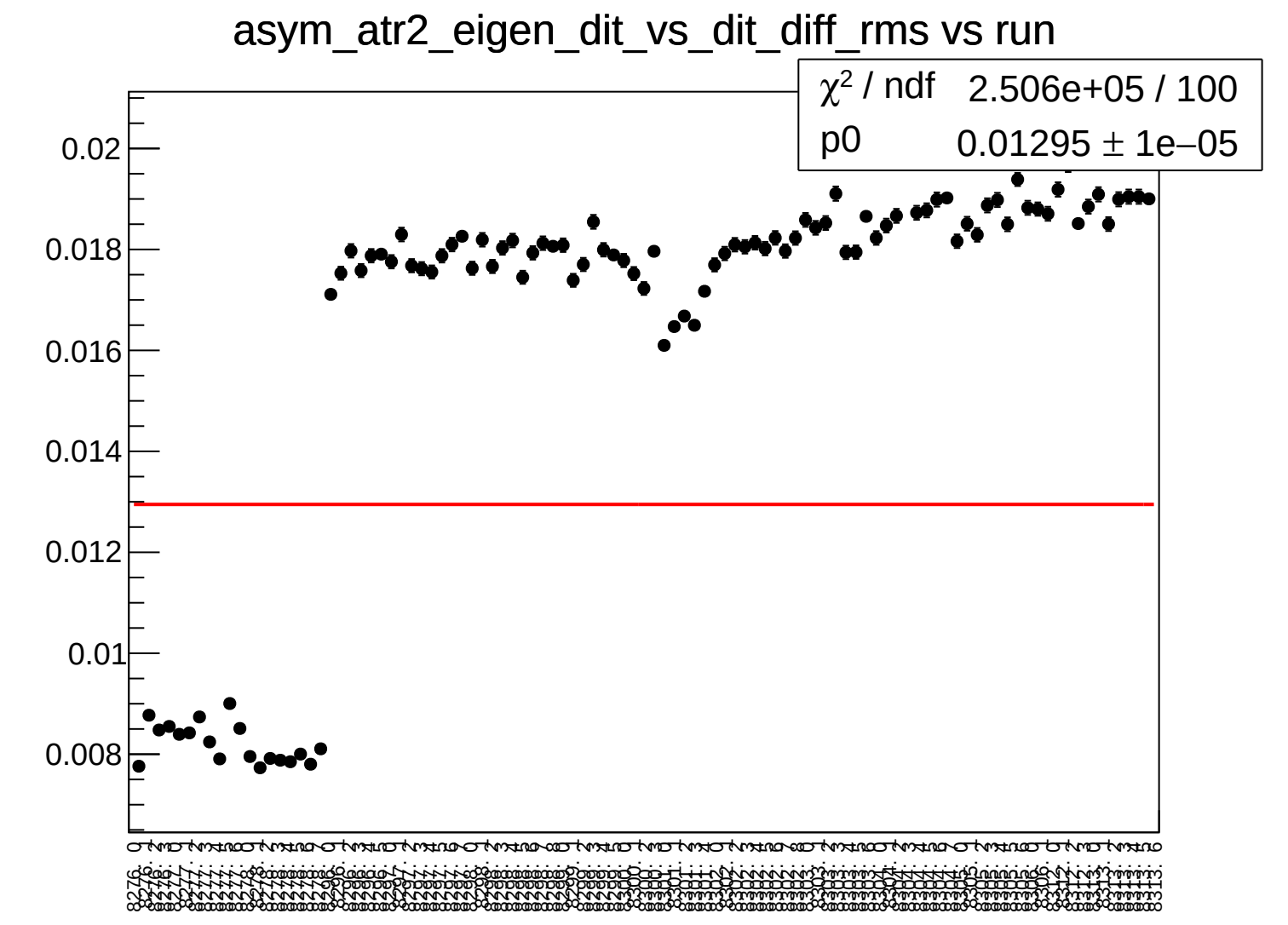

pull1D
Entries 101
Mean −0.02318
Std Dev 1.041

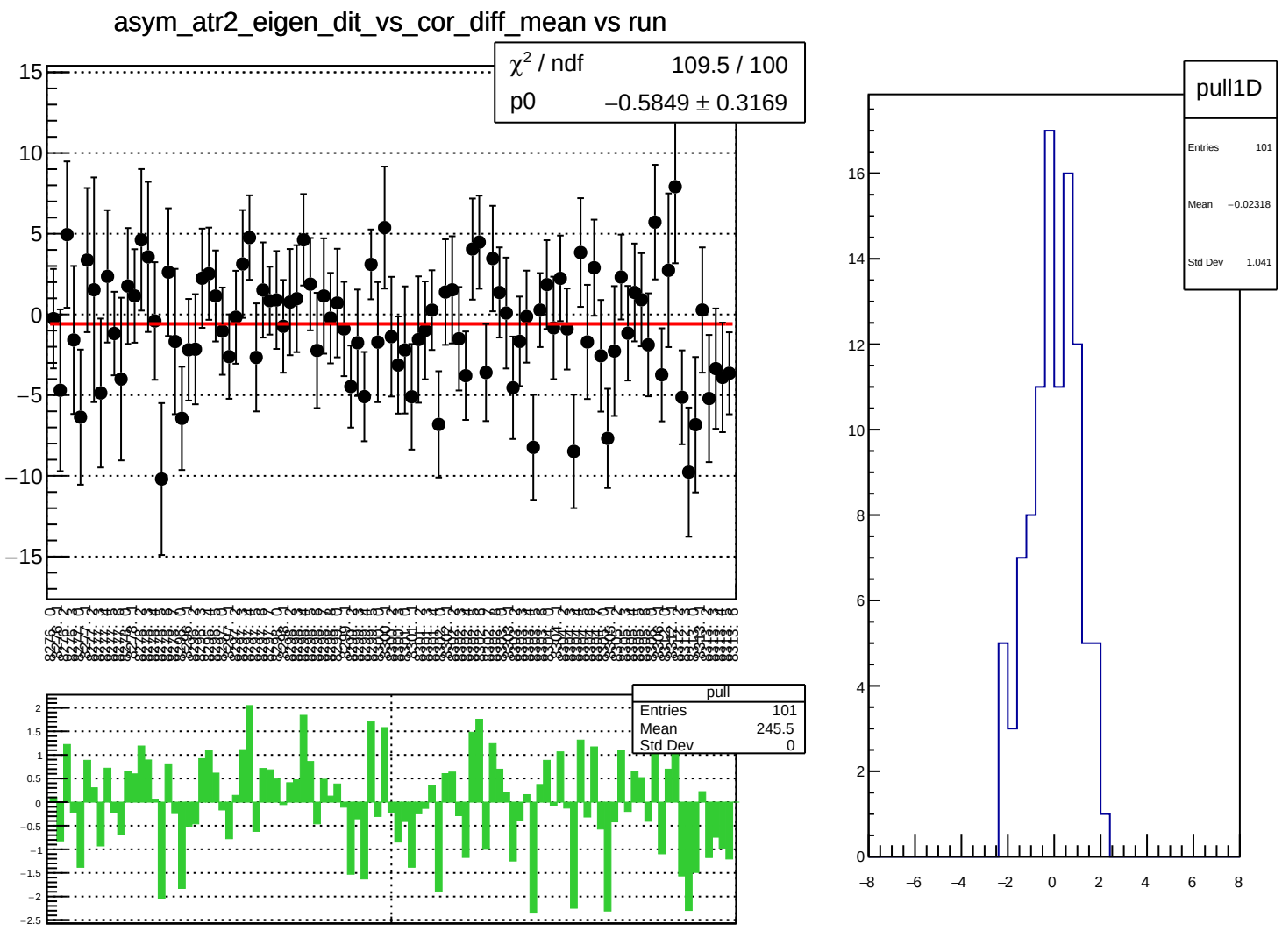

asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 5.597e+04 / 100
p0 306.6 ± 0.2241
700
600
500
400
300
200

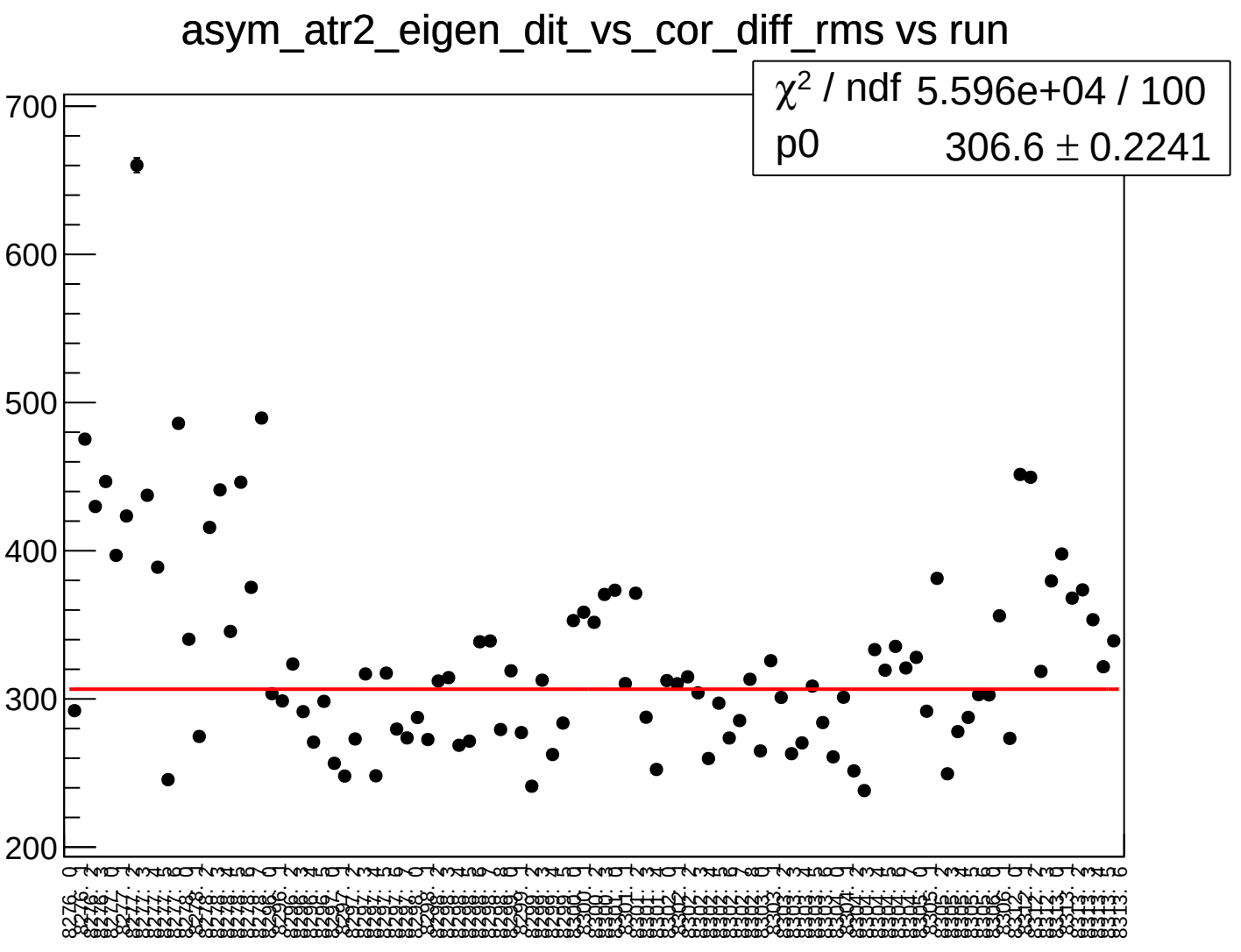

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.5 / 100
p0 −0.5849 ± 0.3169
pull
Entries 101
Mean 245.6
Std Dev 0
pull1D
Entries 101
Mean −0.02318
Std Dev 1.041

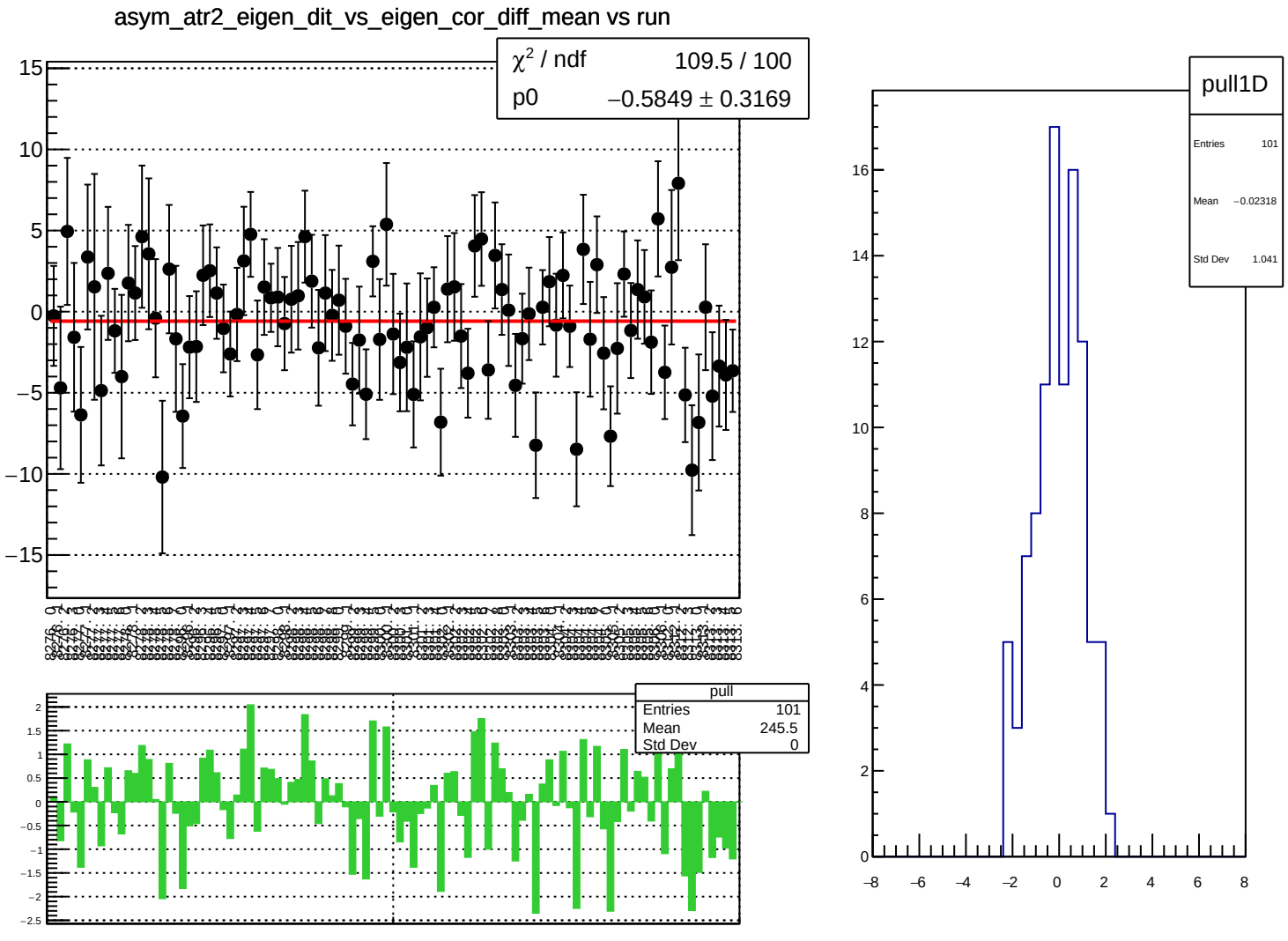

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.597e+04 / 100
p0 306.6 ± 0.2241
700
600
500
400
300
200

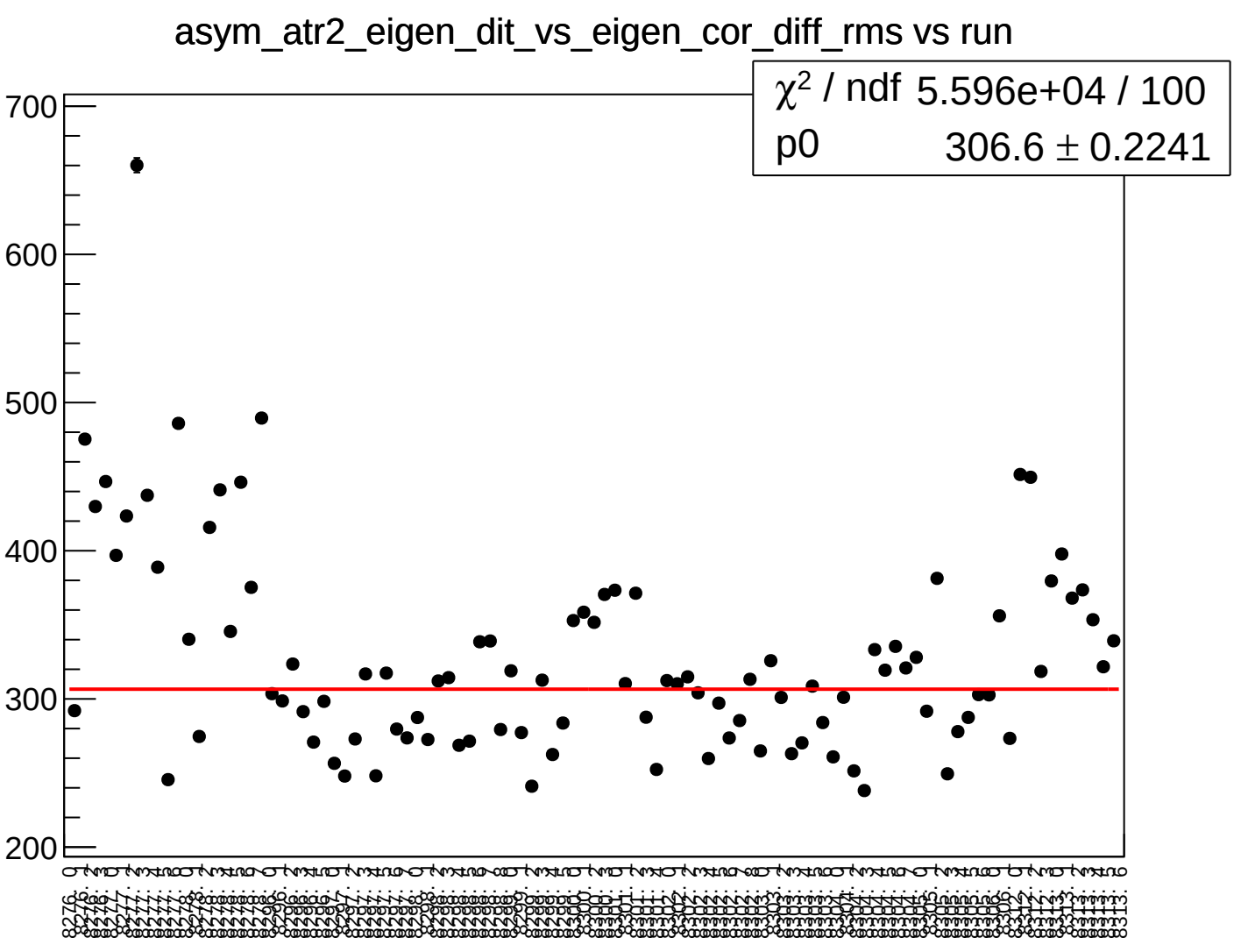

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 107 / 100
p0 −2.74e−05 ± 1.414e−05
pull
Entries 101
Mean 189.1
Std Dev 0
pull1D
Entries 101
Mean −0.05642
Std Dev 1.028

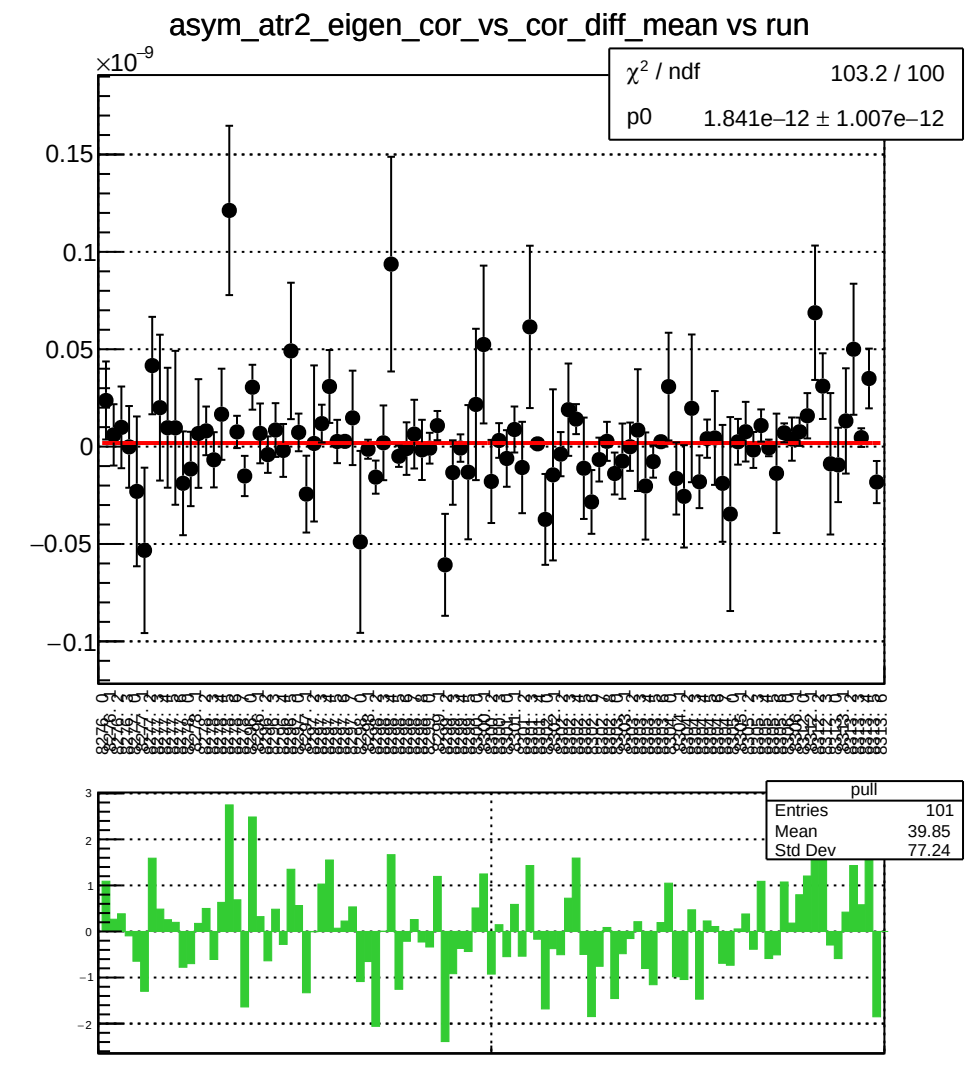

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.506e+05 / 100
p0 0.01295 ± 1e−05
0.02
0.018
0.016
0.014
0.012
0.01
0.008

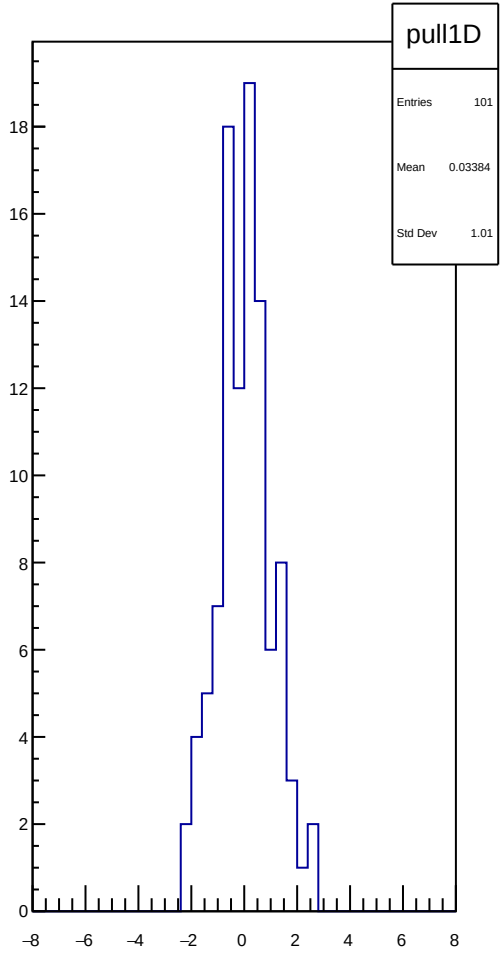

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 109.5 / 100
p0 −0.5849 ± 0.3169
pull
Entries 101
Mean 245.5
Std Dev 0
pull1D
Entries 101
Mean −0.02318
Std Dev 1.041

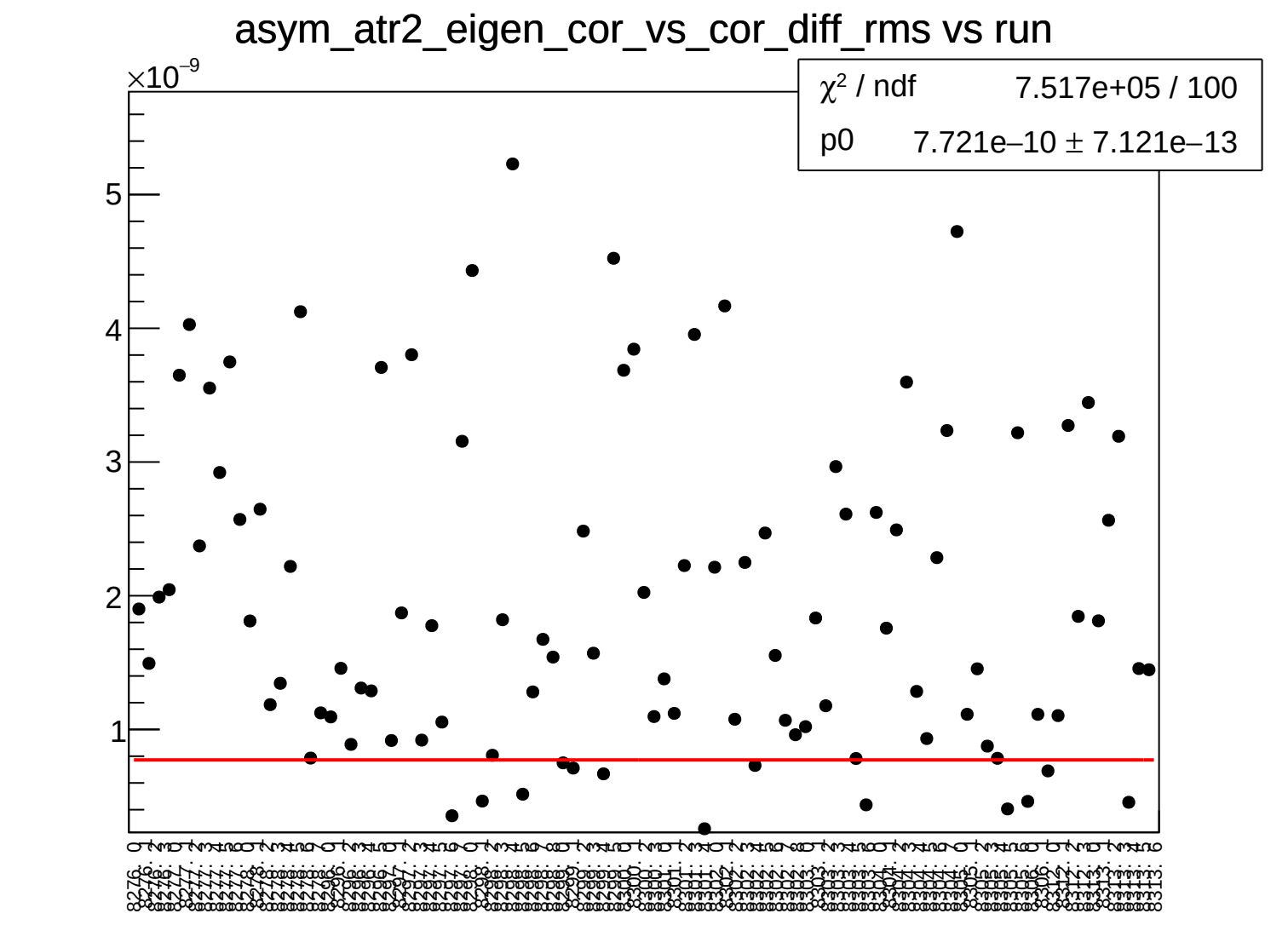

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.596e+04 / 100
p0 306.6 ± 0.2241
700
600
500
400
300
200

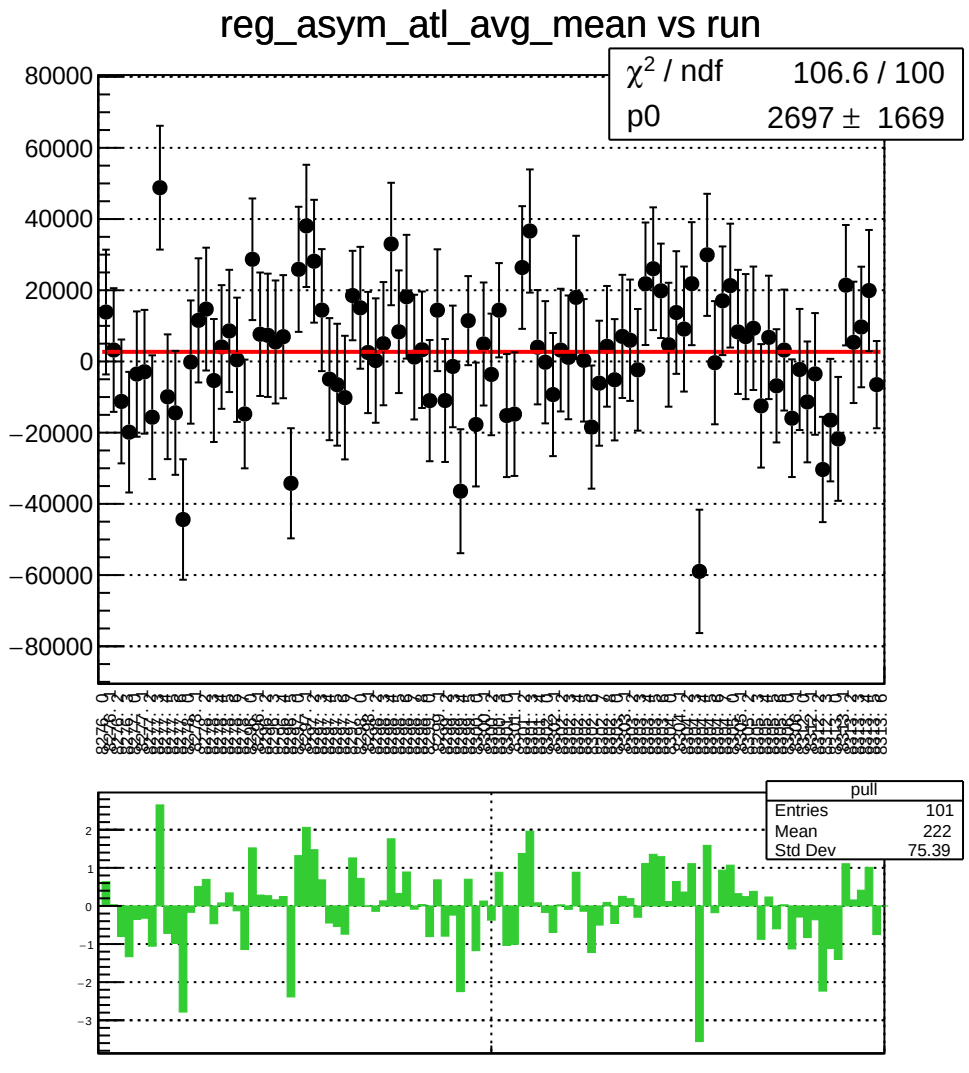

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.5 / 100
p0 −0.5849 ± 0.3169
pull
Entries 101
Mean 245.5
Std Dev 0
pull1D
Entries 101
Mean −0.02318
Std Dev 1.041

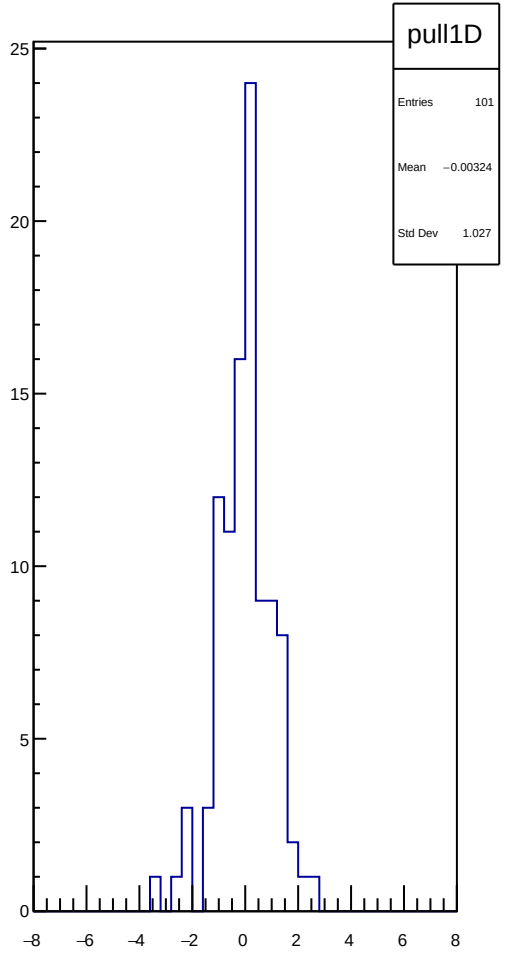

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.596e+04 / 100
p0 306.6 ± 0.2241
700
600
500
400
300
200

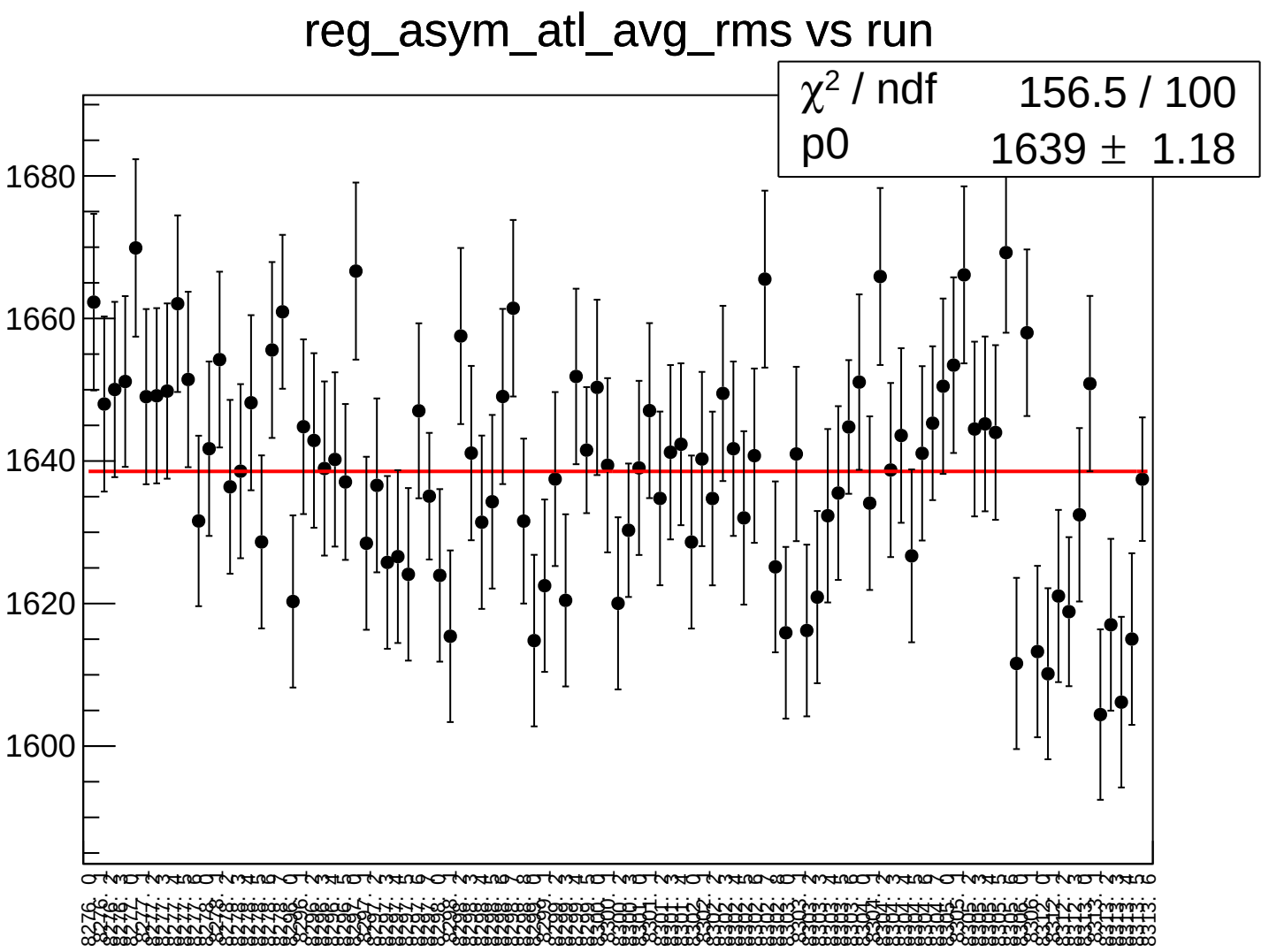

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 103.2 / 100
p0 1.841e−12 ± 1.007e−12
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 101
Mean 39.85
Std Dev 77.24
3
2
1
0
−1
−2

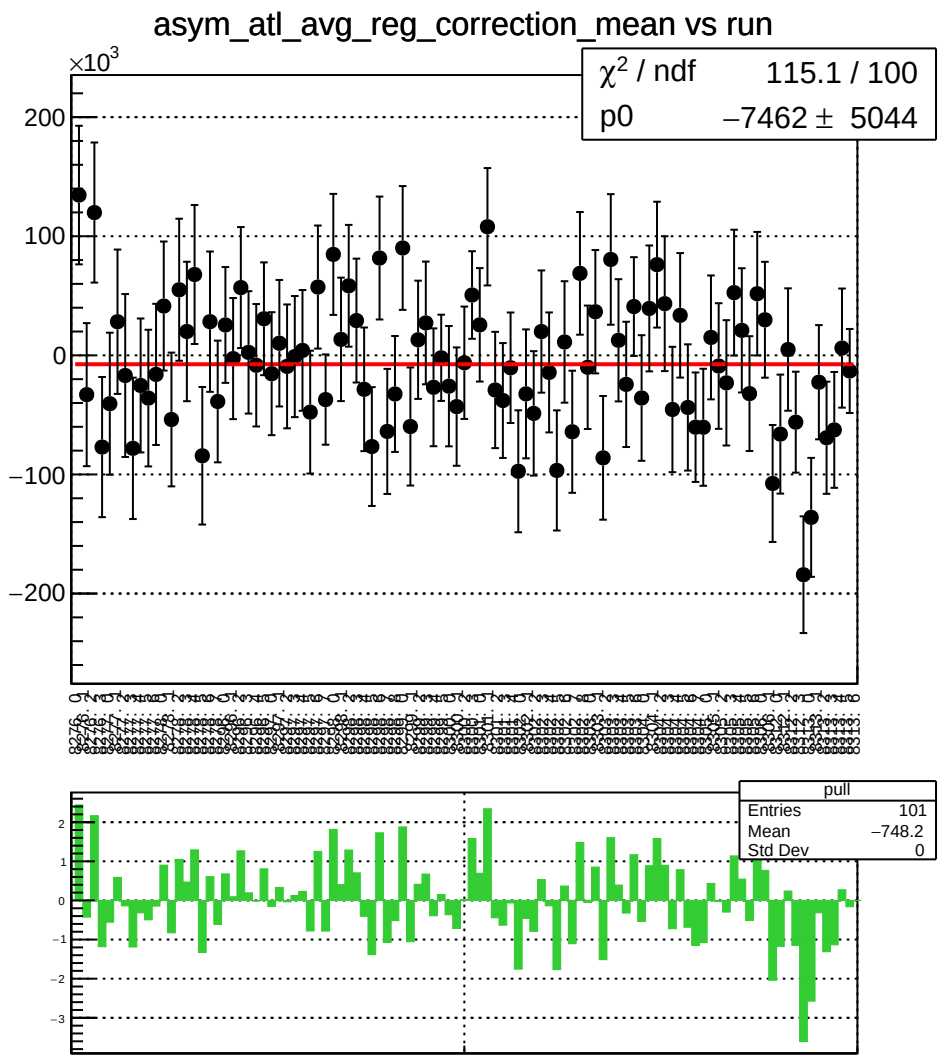

pull1D
Entries 101
Mean 0.03384
Std Dev 1.01
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

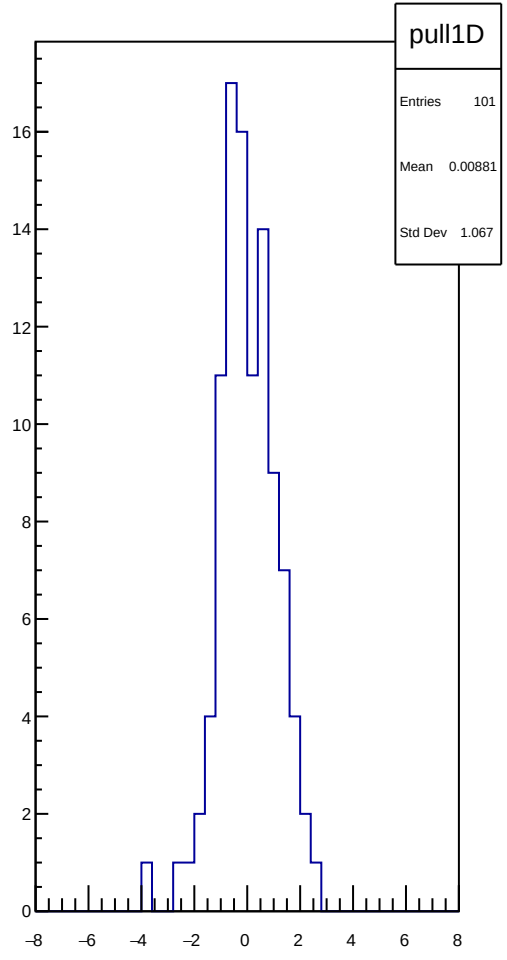

asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.517e+05 / 100
p0 7.721e−10 ± 7.121e−13
5
4
3
2
1

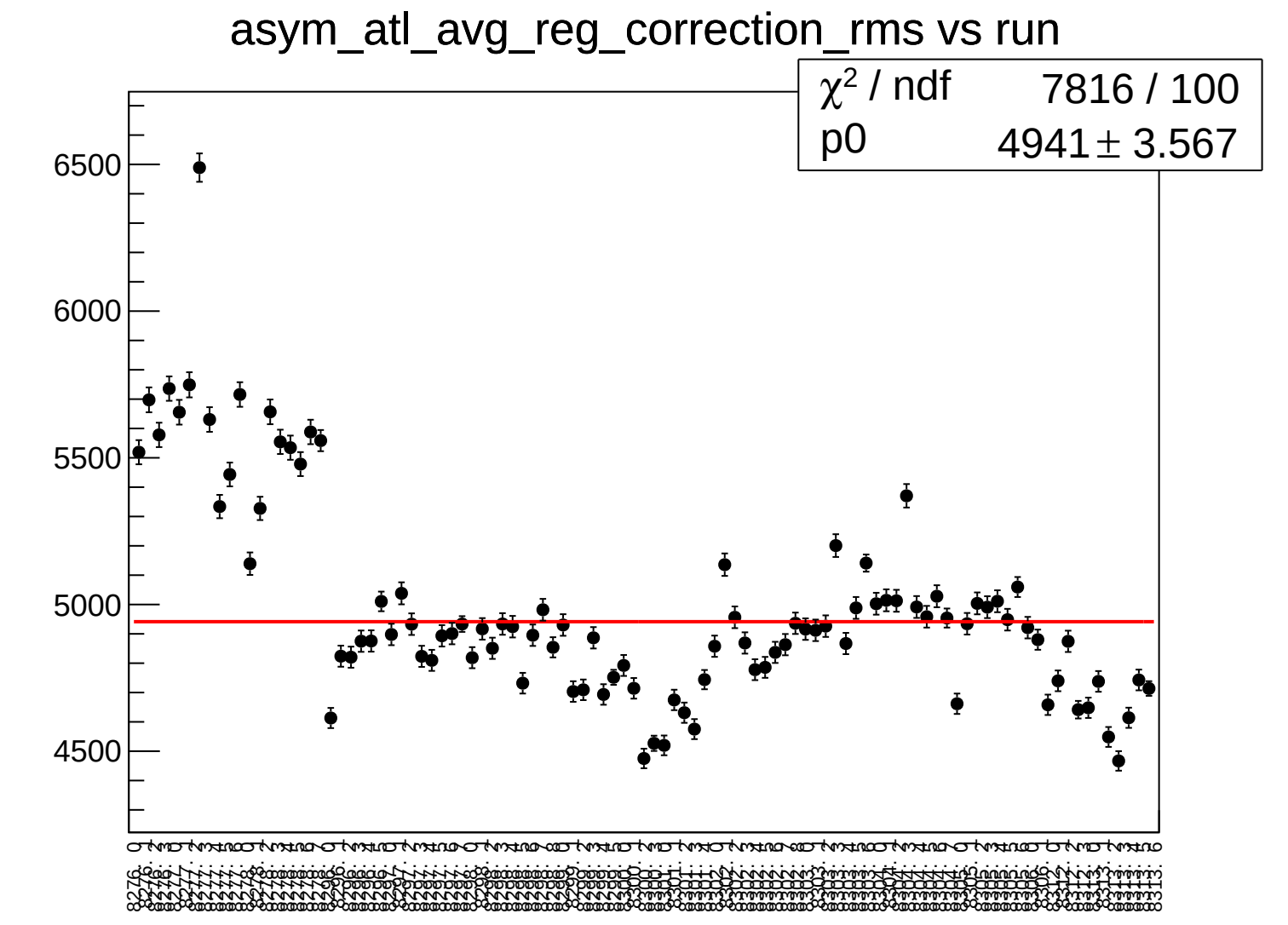

reg_asym_atl_avg_mean vs run
χ² / ndf 106.6 / 100
p0 2697 ± 1669
pull
Entries 101
Mean 222
Std Dev 75.39

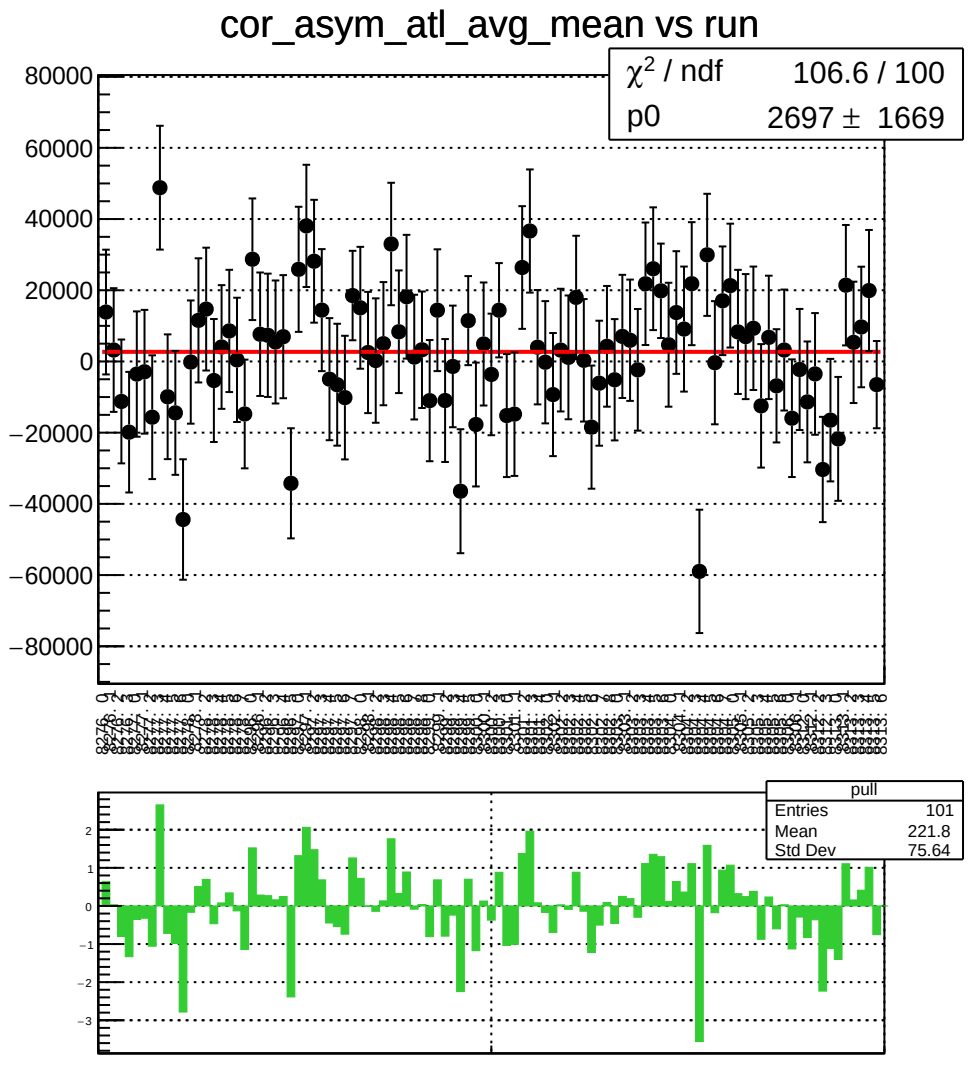

pull1D
Entries 101
Mean −0.00324
Std Dev 1.027

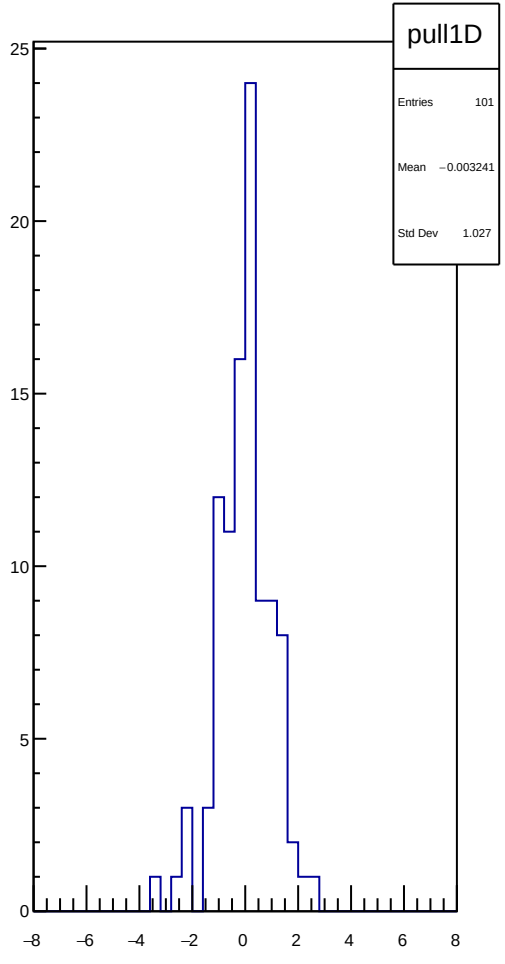

reg_asym_atl_avg_rms vs run
χ² / ndf 156.5 / 100
p0 1639 ± 1.18
1680
1660
1640
1620
1600

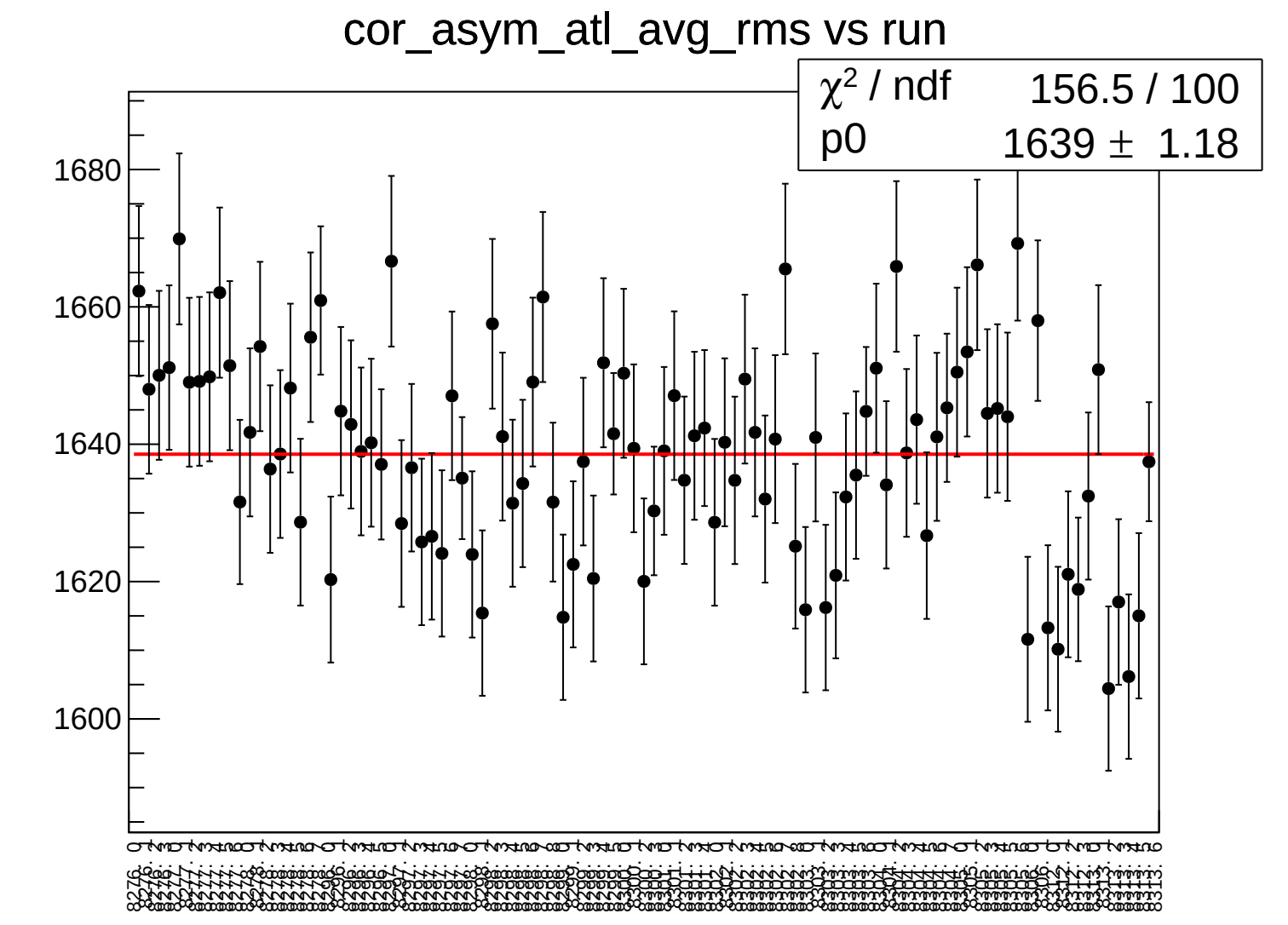

asym_atl_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 115.1 / 100
p0 −7462 ± 5044
200
100
0
−100
−200
pull
Entries 101
Mean −748.2
Std Dev 0
2
1
0
−1
−2
−3

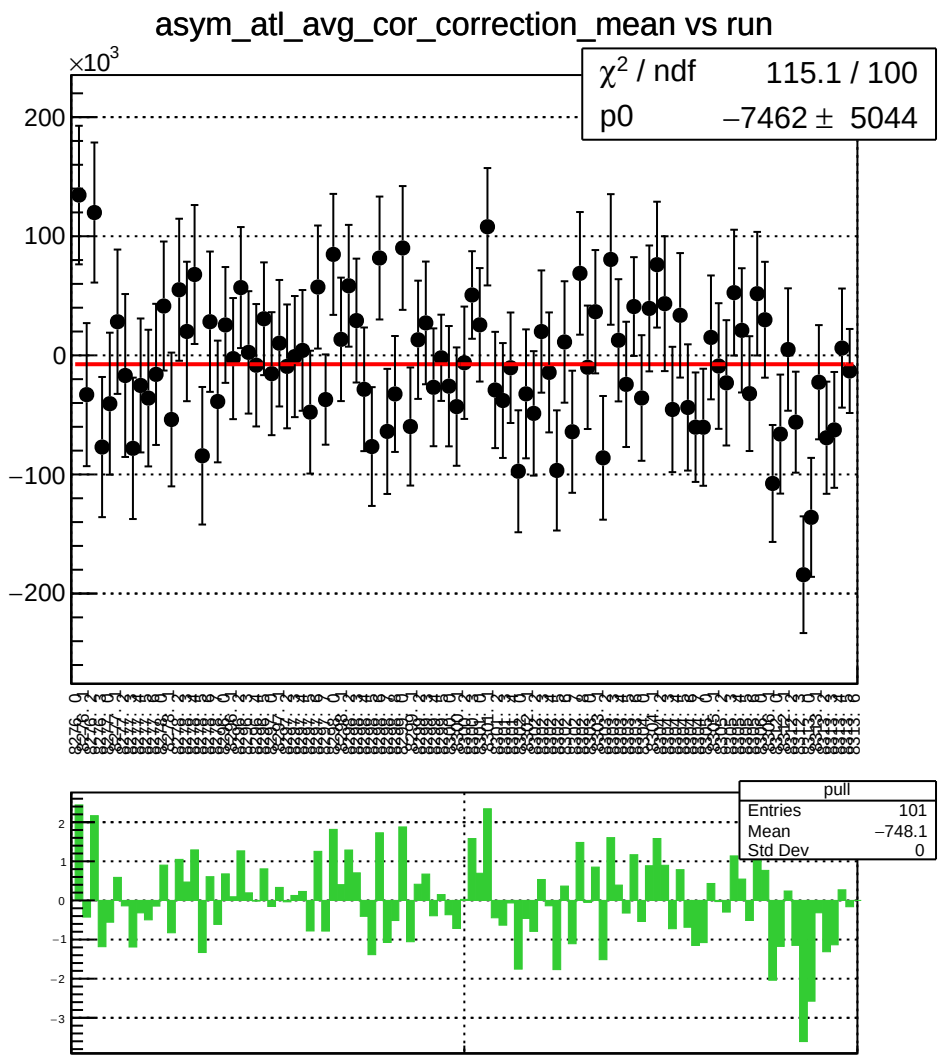

pull1D
Entries 101
Mean 0.00881
Std Dev 1.067
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

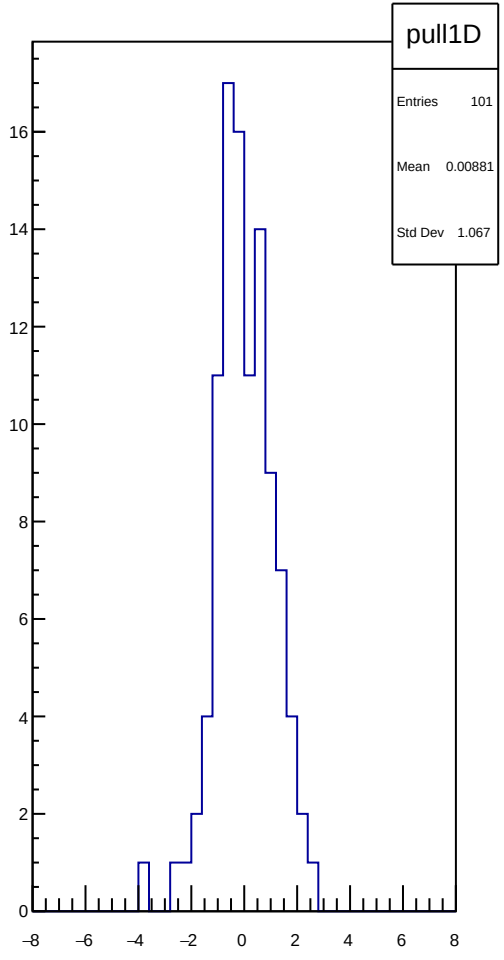

asym_atl_avg_reg_correction_rms vs run
χ² / ndf 7816 / 100
p0 4941 ± 3.567
6500
6000
5500
5000
4500

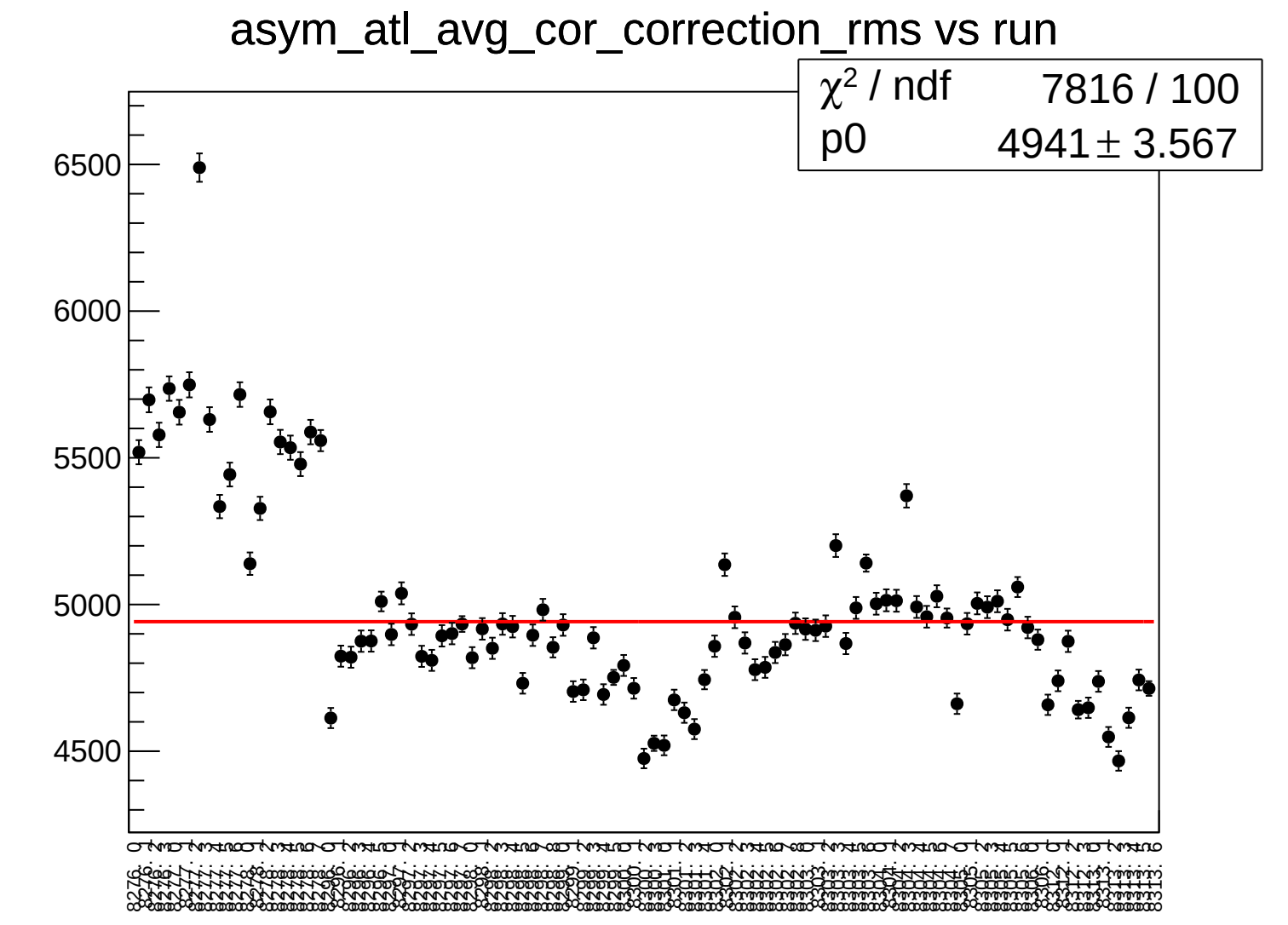

cor_asym_atl_avg_mean vs run
χ² / ndf 106.6 / 100
p0 2697 ± 1669
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 101
Mean 221.8
Std Dev 75.64
2
1
0
−1
−2
−3

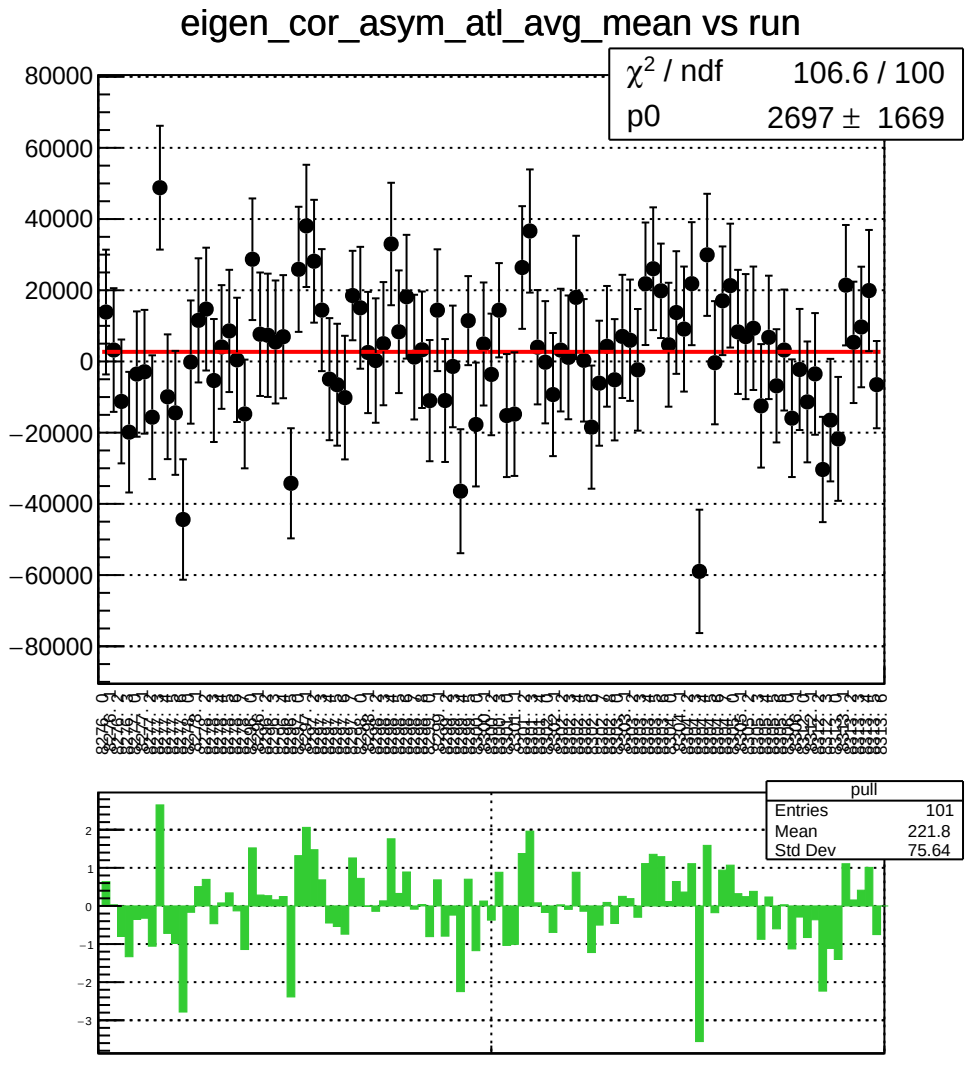

pull1D
Entries 101
Mean −0.003241
Std Dev 1.027
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

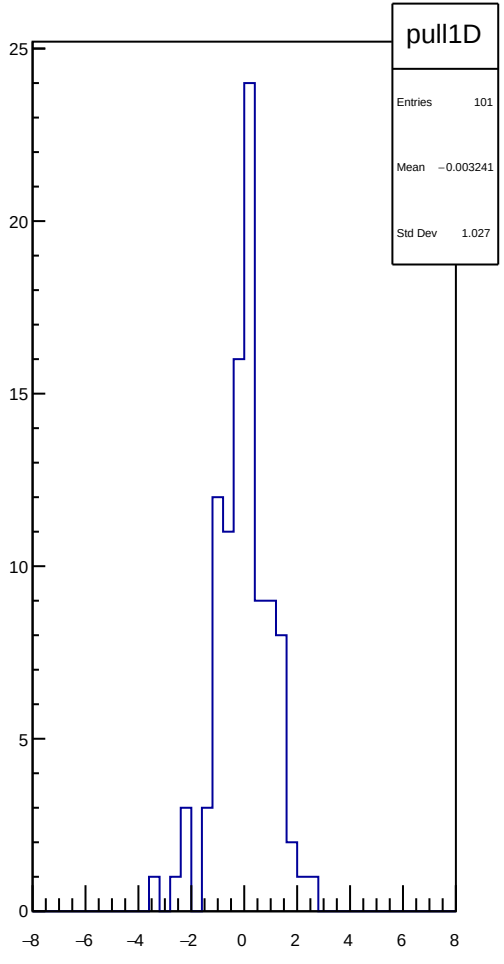

cor_asym_atl_avg_rms vs run
χ² / ndf 156.5 / 100
p0 1639 ± 1.18
1680
1660
1640
1620
1600

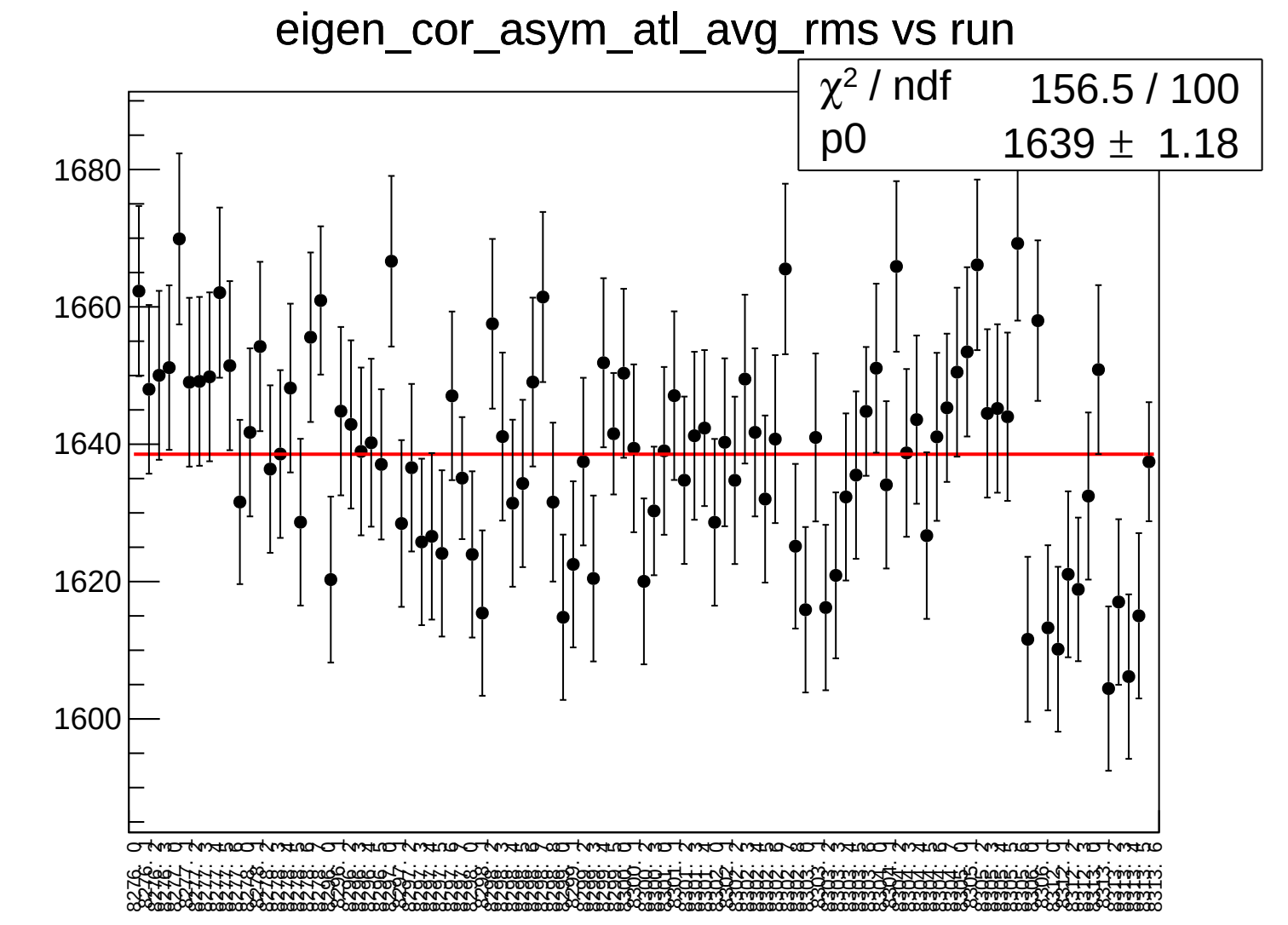

asym_atl_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 115.1 / 100
p0 −7462 ± 5044
200
100
0
−100
−200
pull
Entries 101
Mean −748.1
Std Dev 0
2
1
0
−1
−2
−3

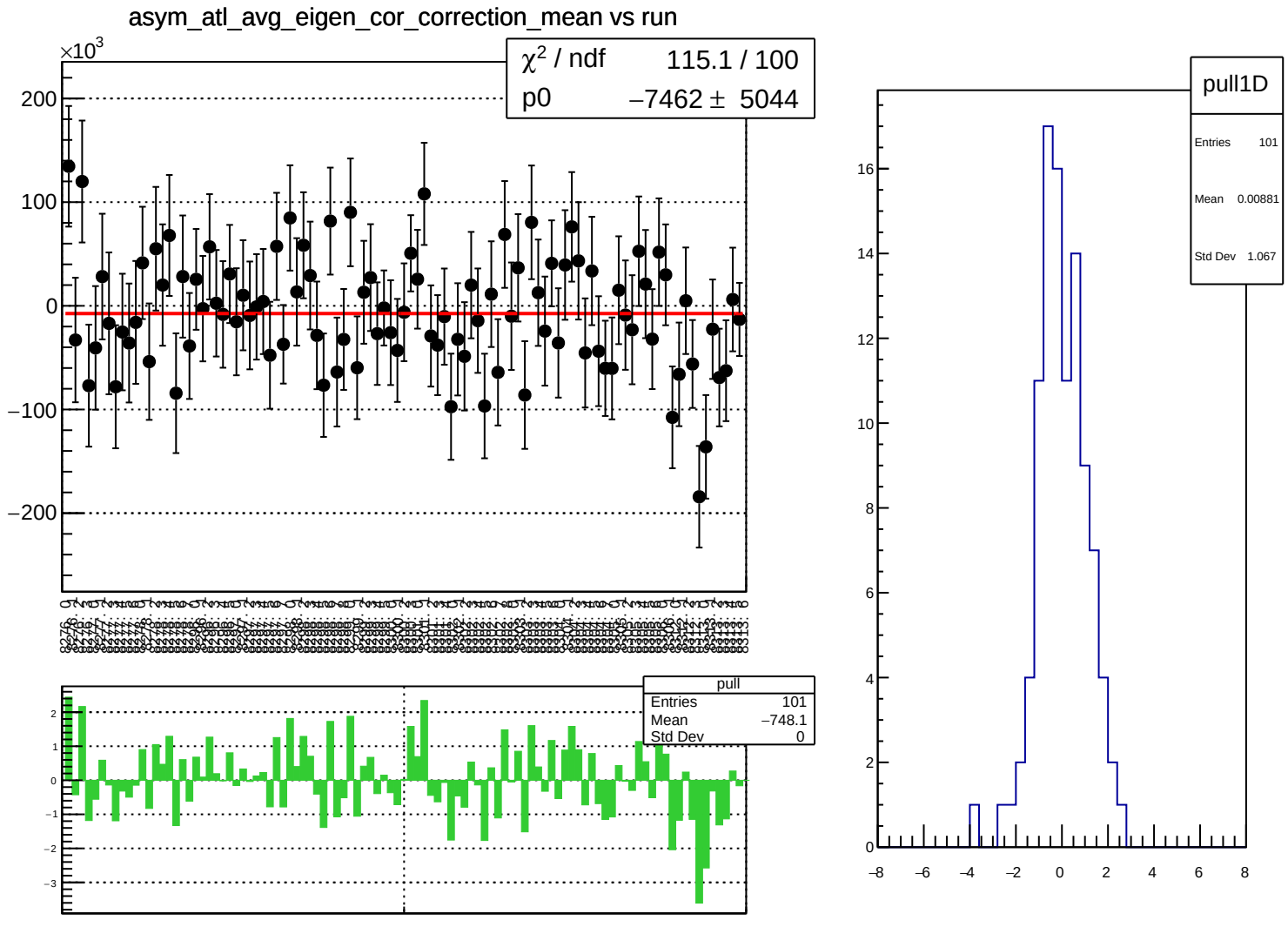

pull1D
Entries 101
Mean 0.00881
Std Dev 1.067
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

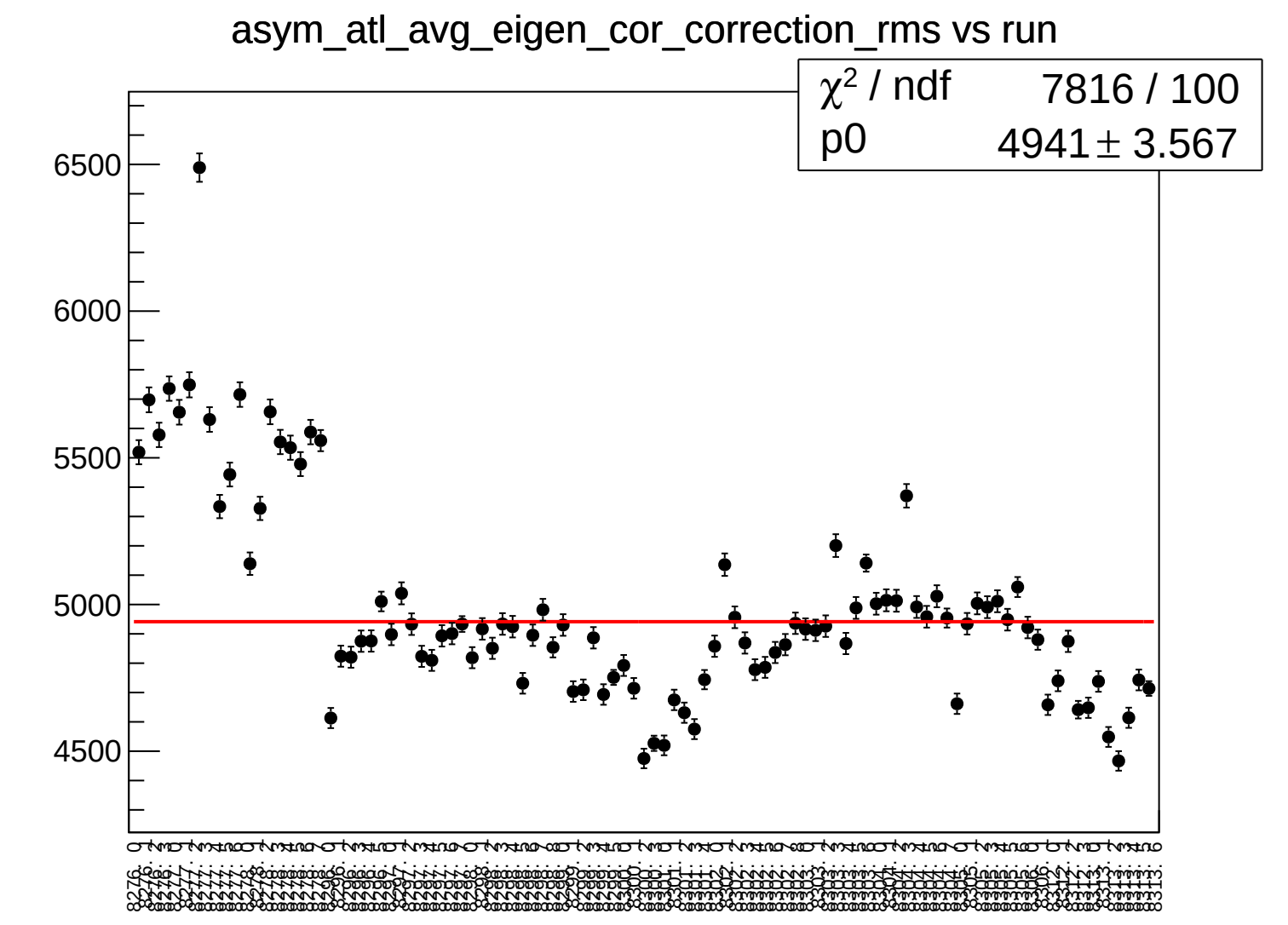

asym_atl_avg_cor_correction_rms vs run
χ² / ndf 7816 / 100
p0 4941 ± 3.567
6500
6000
5500
5000
4500

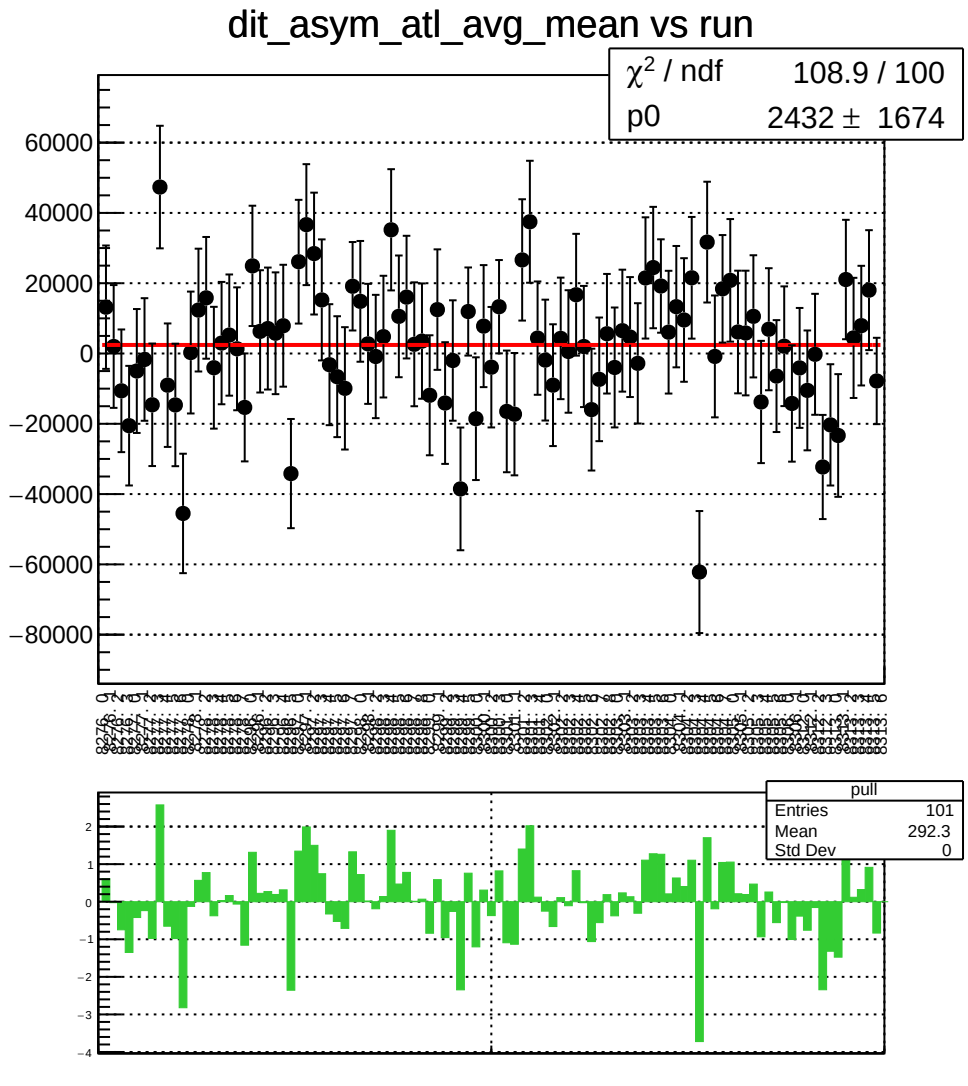

eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 106.6 / 100
p0 2697 ± 1669
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 101
Mean 221.8
Std Dev 75.64
2
1
0
−1
−2
−3

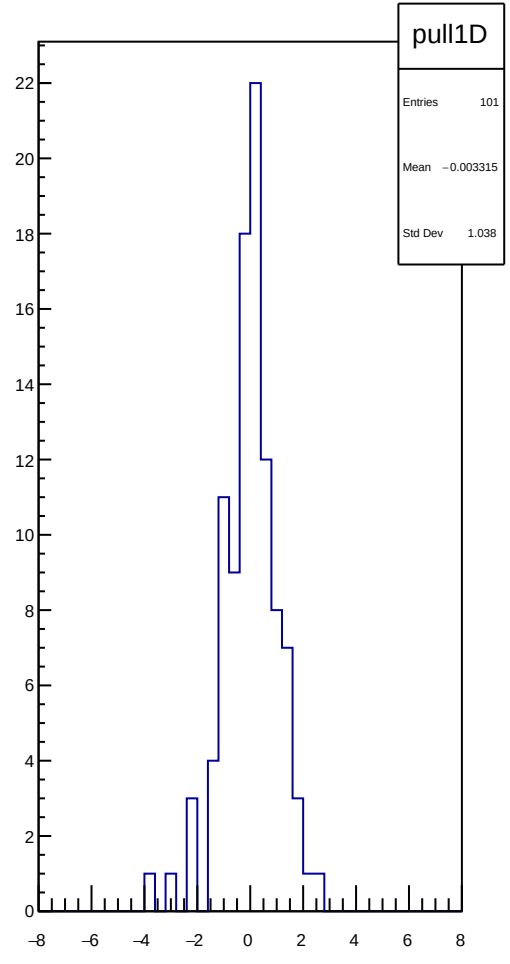

pull1D
Entries 101
Mean −0.003241
Std Dev 1.027
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

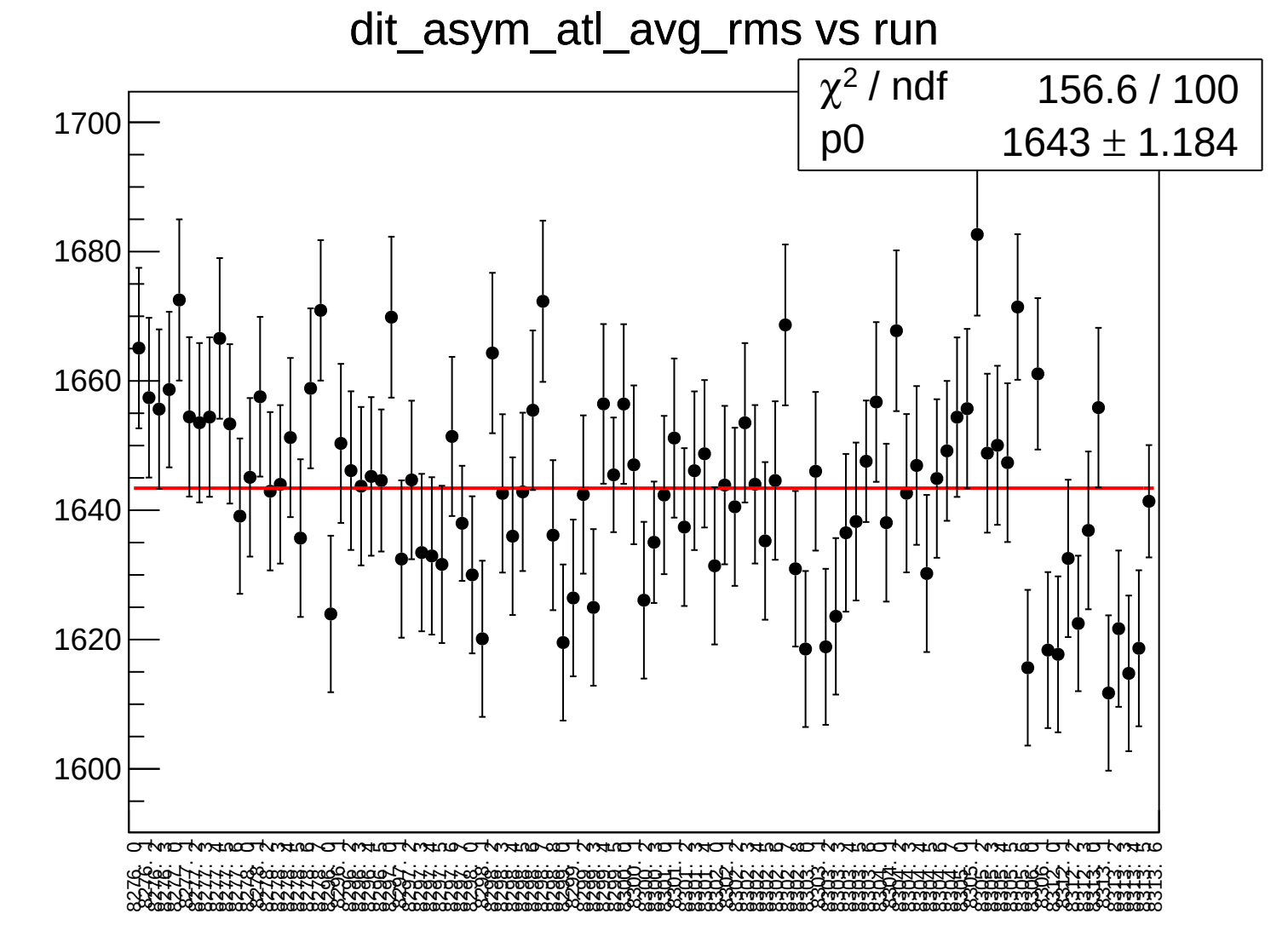

eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 156.5 / 100
p0 1639 ± 1.18
1680
1660
1640
1620
1600

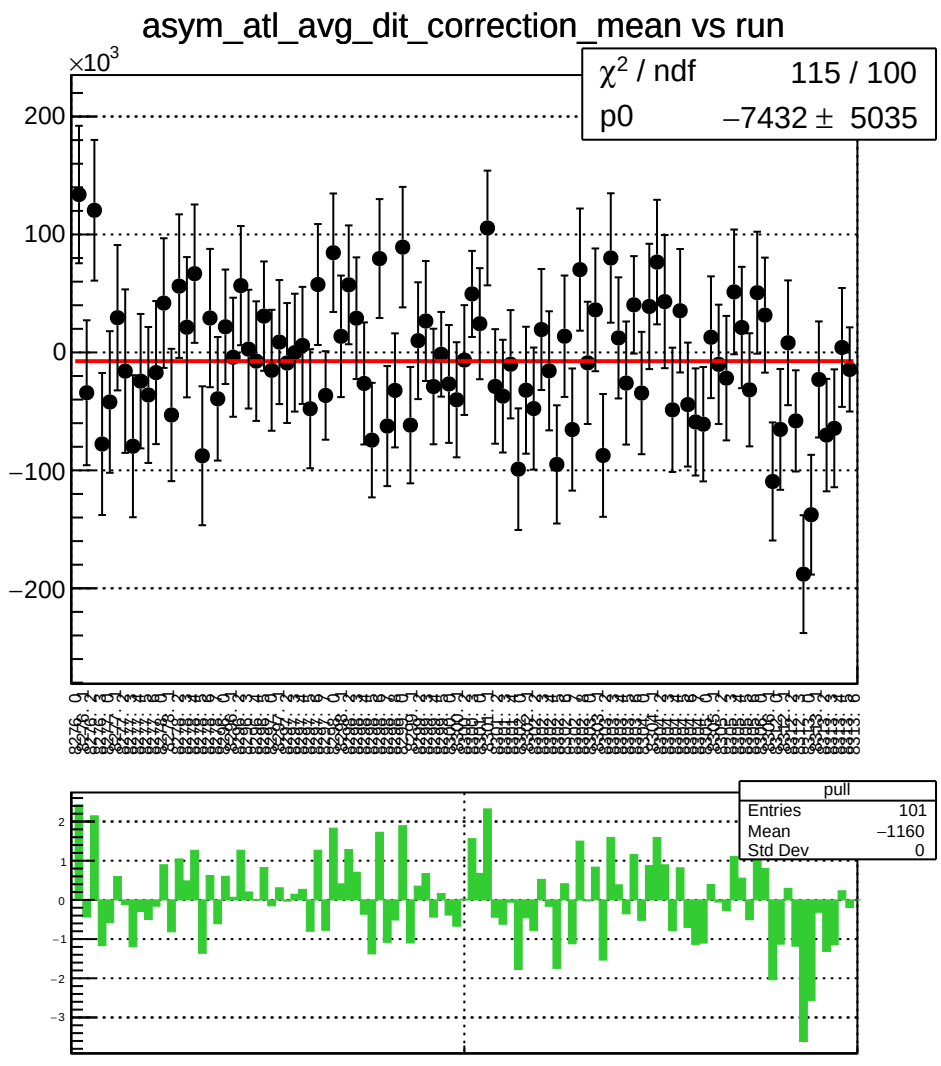

asym_atl_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 115.1 / 100
p0 −7462 ± 5044
200
100
0
−100
−200
pull
Entries 101
Mean −748.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.00881
Std Dev 1.067
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

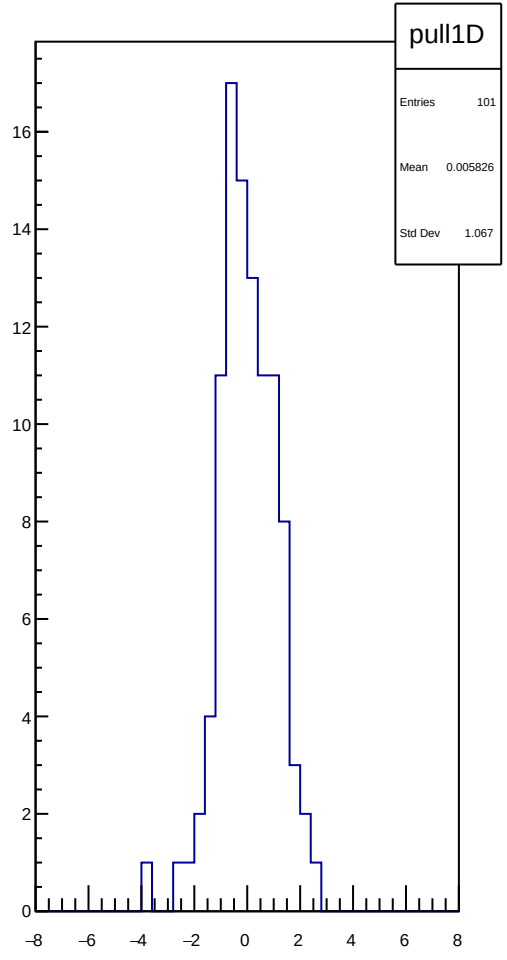

asym_atl_avg_eigen_cor_correction_rms vs run
χ² / ndf 7816 / 100
p0 4941 ± 3.567
6500
6000
5500
5000
4500

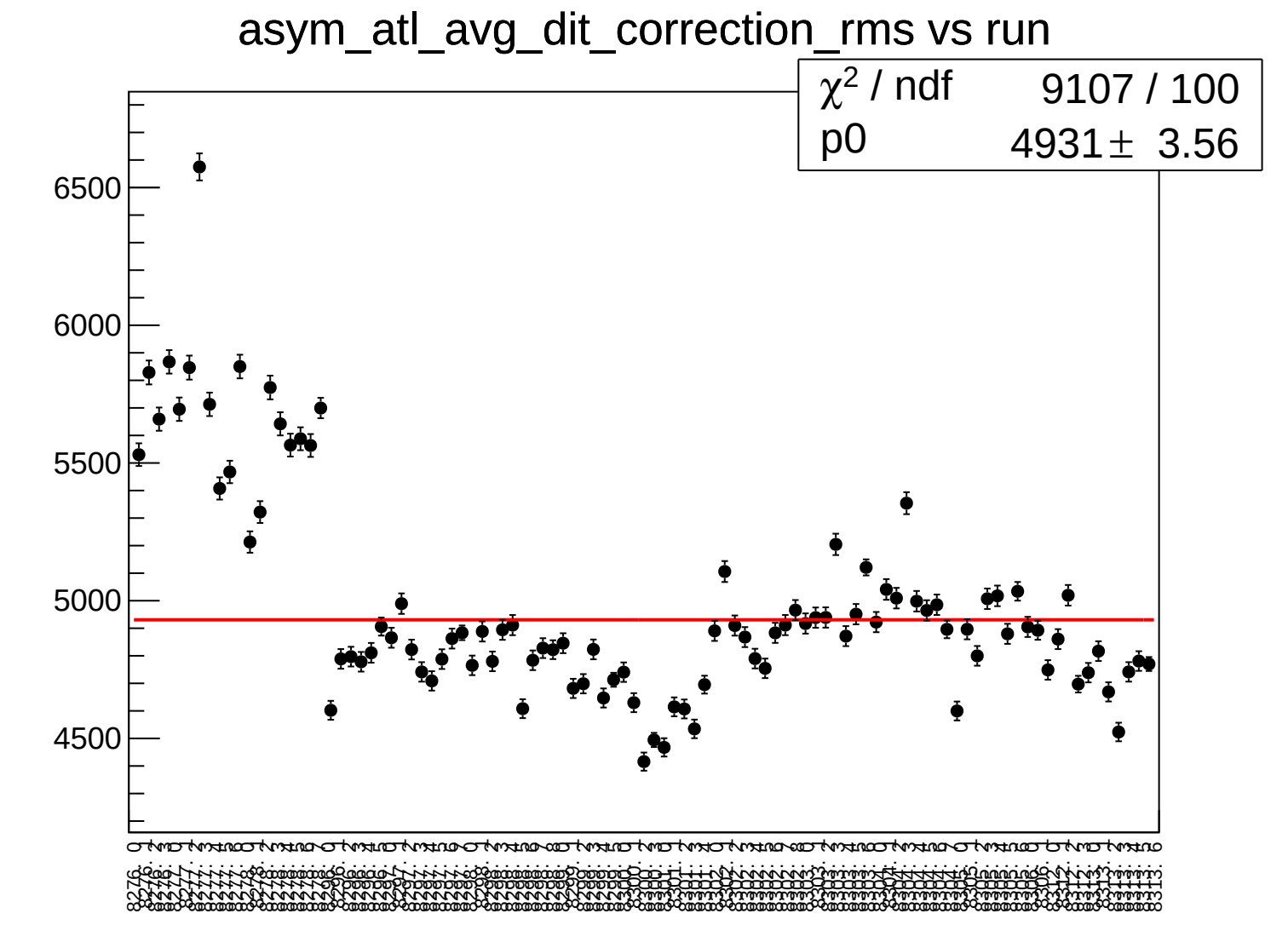

dit_asym_atl_avg_mean vs run
χ² / ndf 108.9 / 100
p0 2432 ± 1674
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 101
Mean 292.3
Std Dev 0
2
1
0
−1
−2
−3
−4

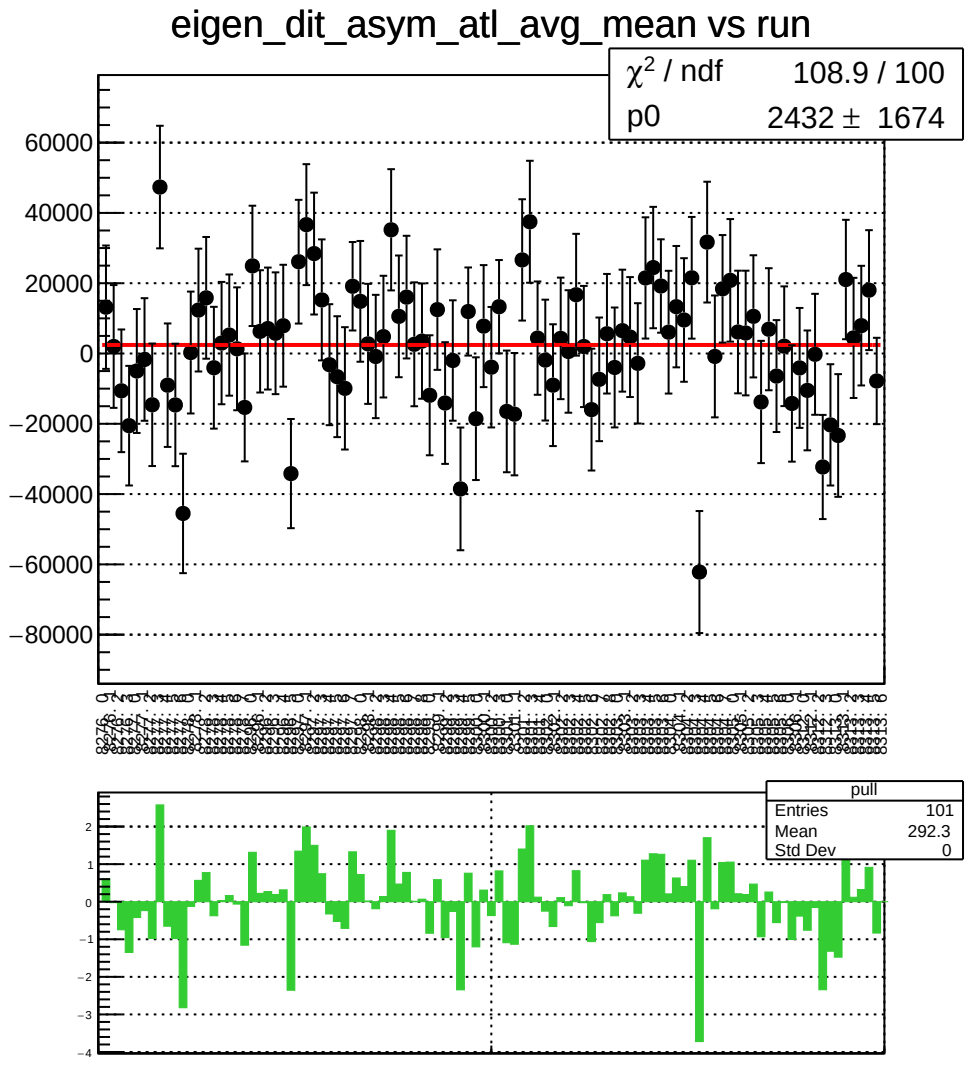

pull1D
Entries 101
Mean −0.003315
Std Dev 1.038
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

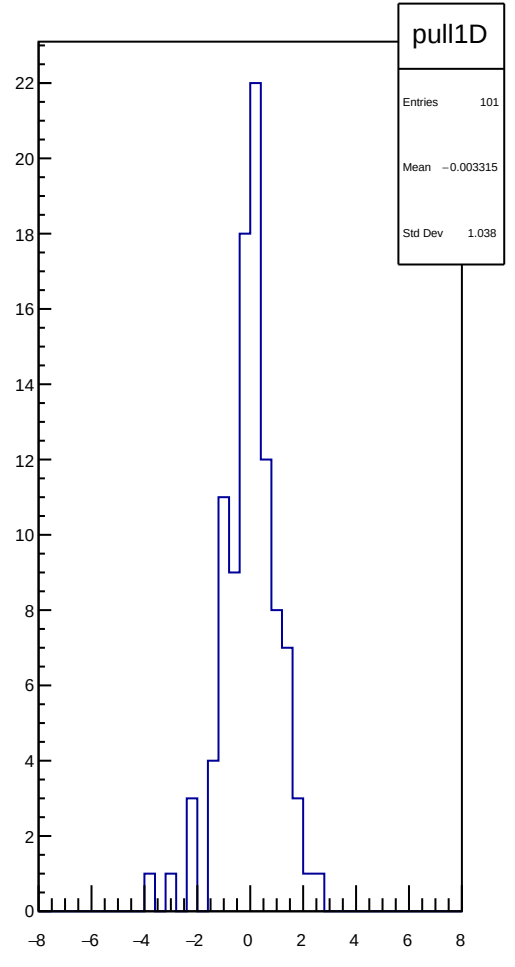

dit_asym_atl_avg_rms vs run
χ² / ndf 156.6 / 100
p0 1643 ± 1.184
1700
1680
1660
1640
1620
1600

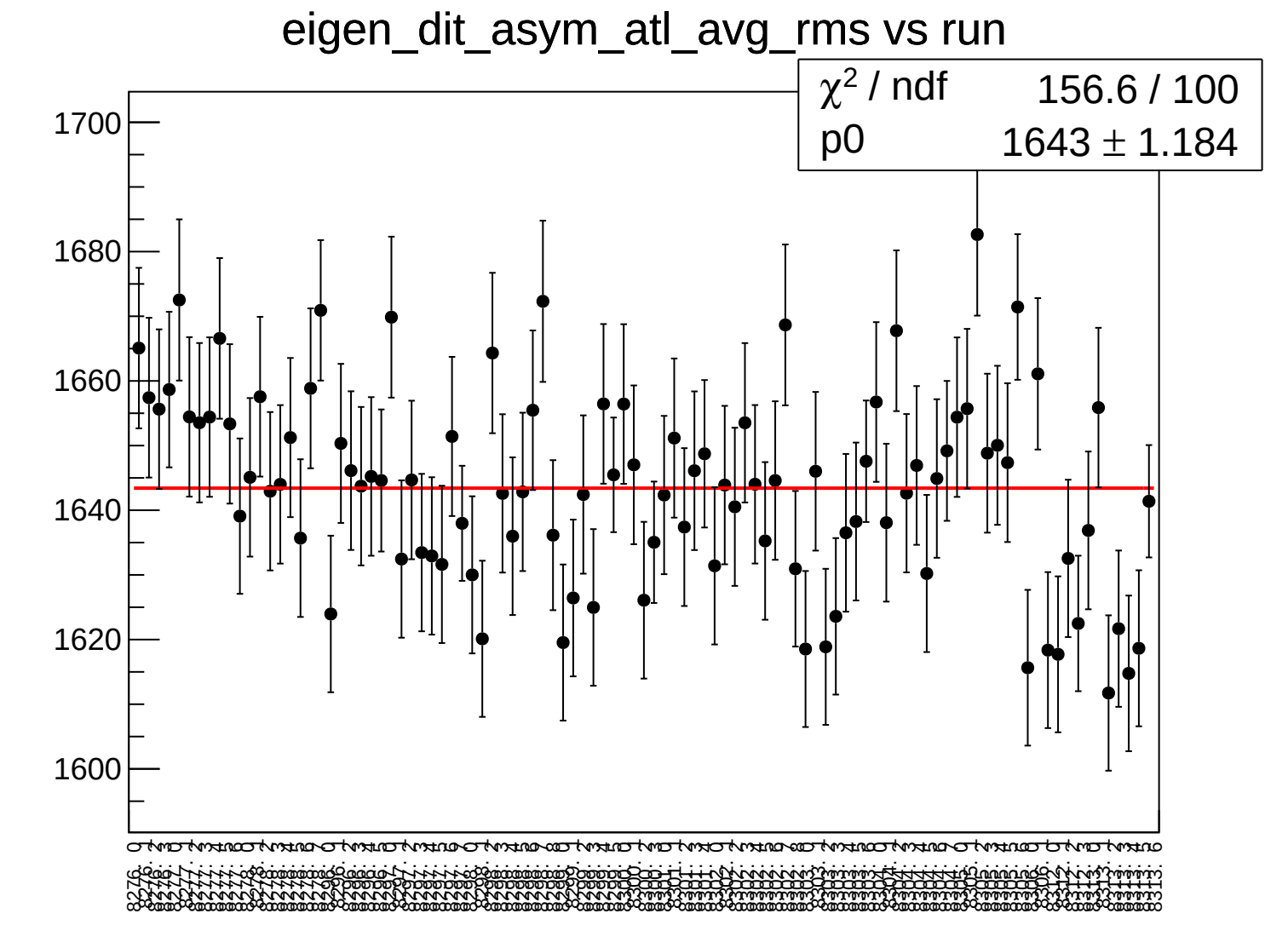

asym_atl_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 115 / 100
p0 −7432 ± 5035
200
100
0
−100
−200
pull
Entries 101
Mean −1160
Std Dev 0
2
1
0
−1
−2
−3

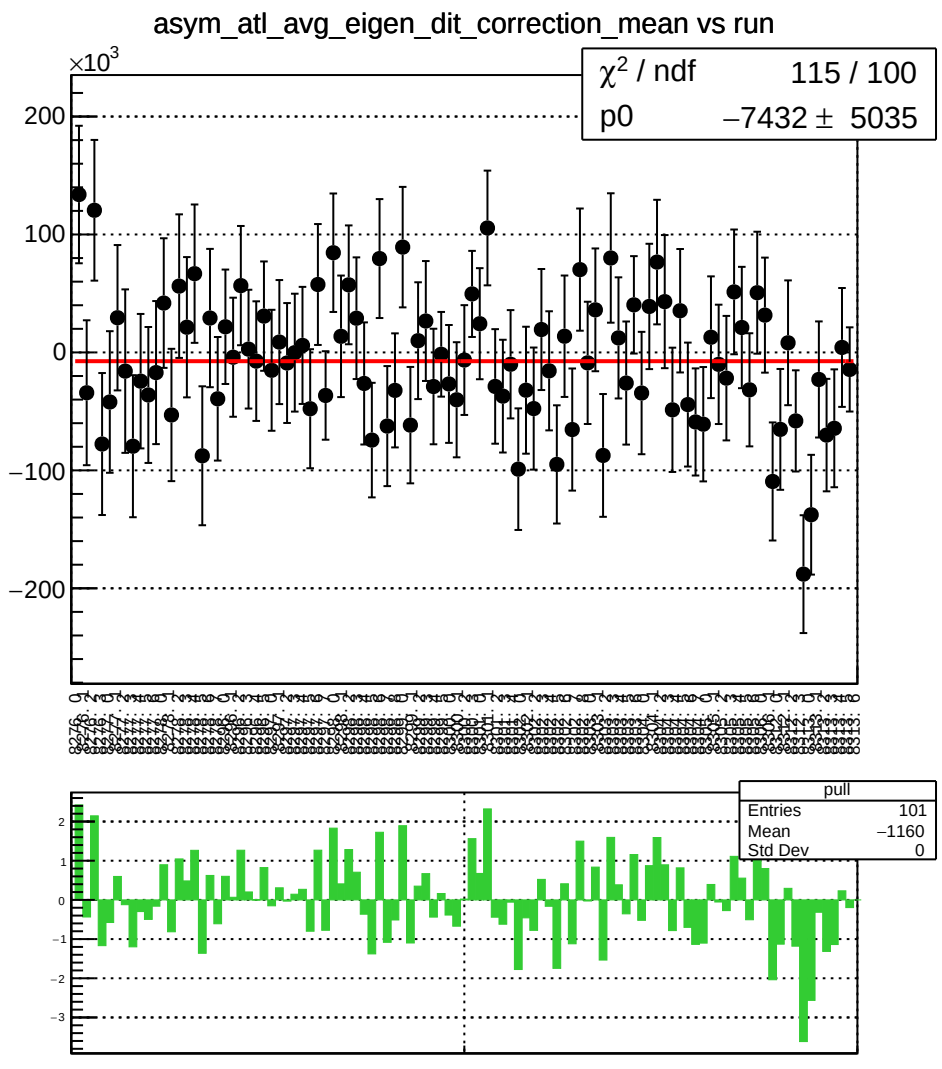

pull1D
Entries 101
Mean 0.005826
Std Dev 1.067
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

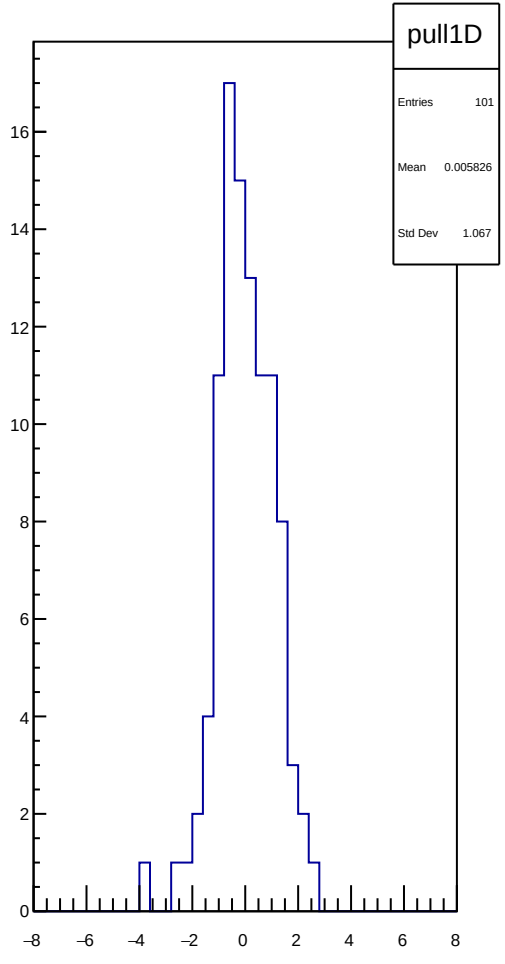

asym_atl_avg_dit_correction_rms vs run
χ² / ndf 9107 / 100
p0 4931 ± 3.56
6500
6000
5500
5000
4500

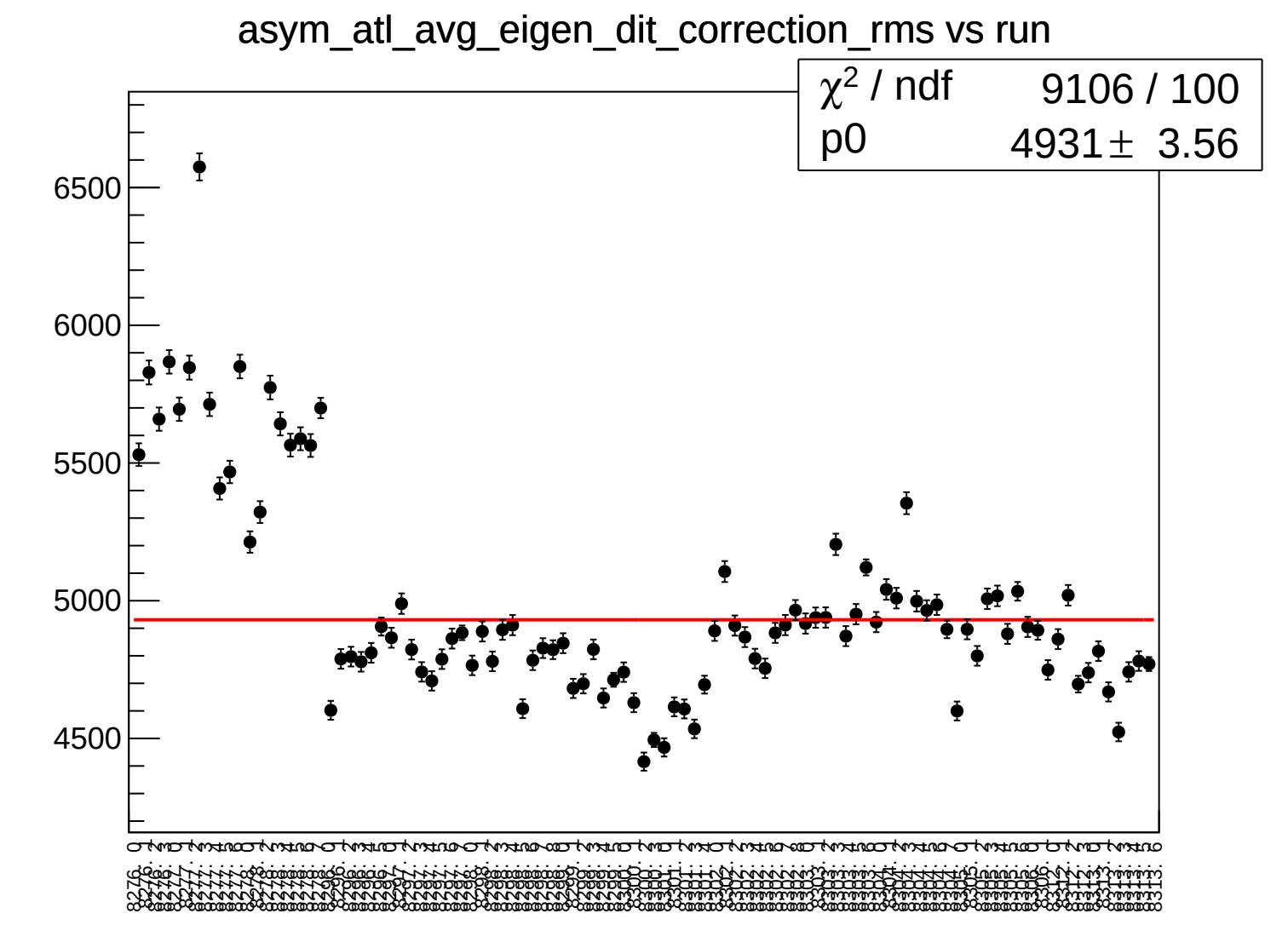

eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 108.9 / 100
p0 2432 ± 1674
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 101
Mean 292.3
Std Dev 0
2
1
0
−1
−2
−3
−4

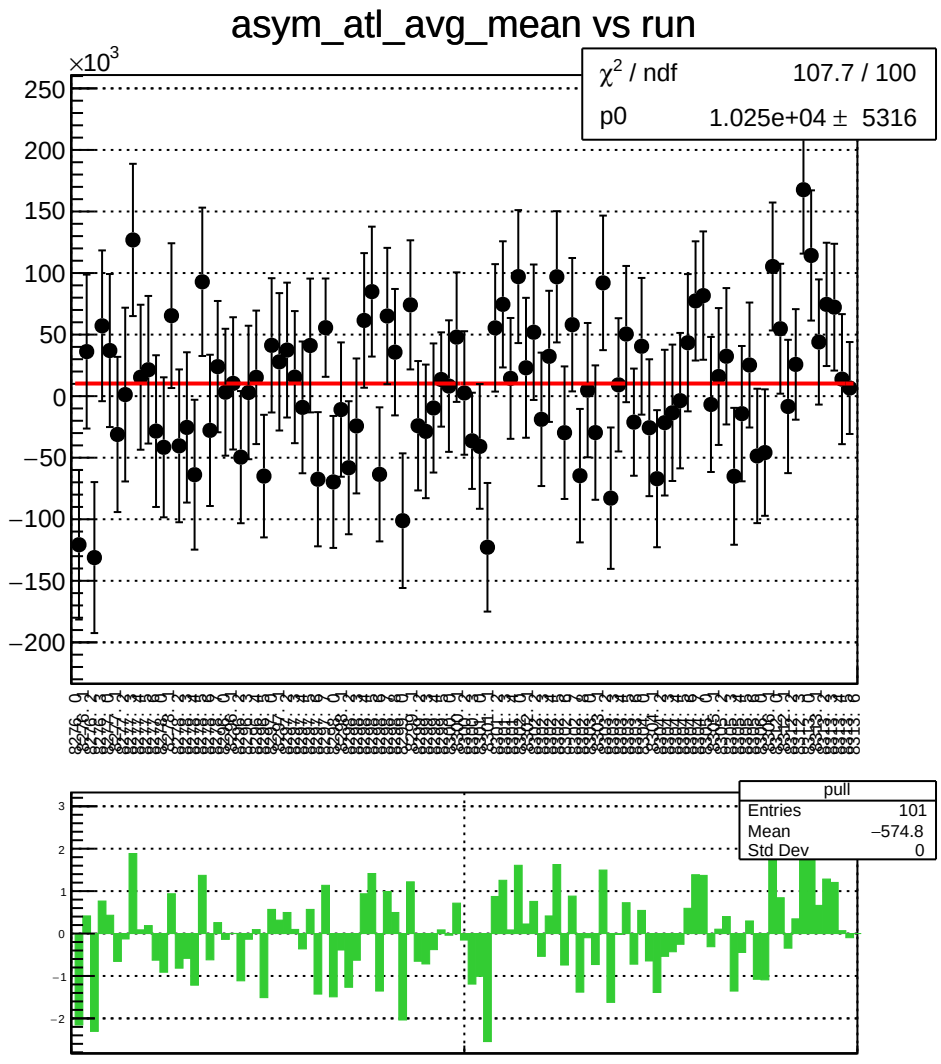

pull1D
Entries 101
Mean −0.003315
Std Dev 1.038
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

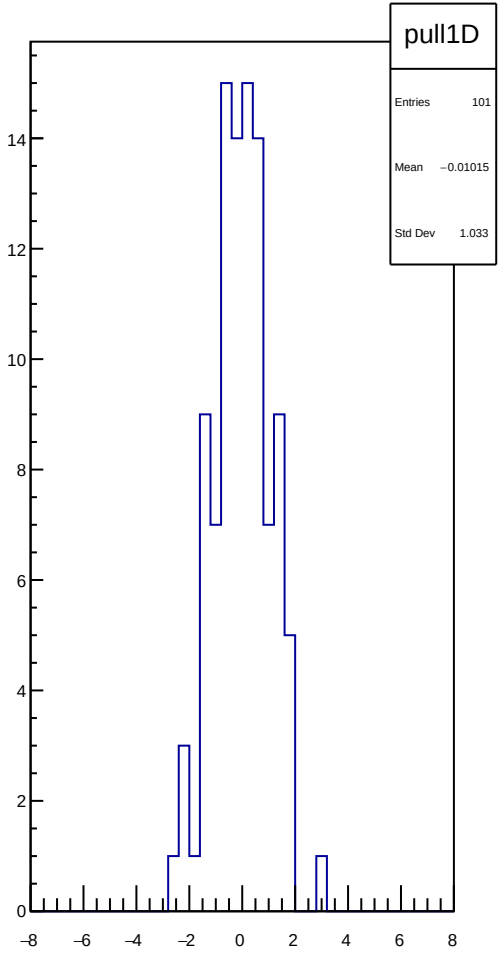

eigen_dit_asym_atl_avg_rms vs run
χ² / ndf 156.6 / 100
p0 1643 ± 1.184
1700
1680
1660
1640
1620
1600

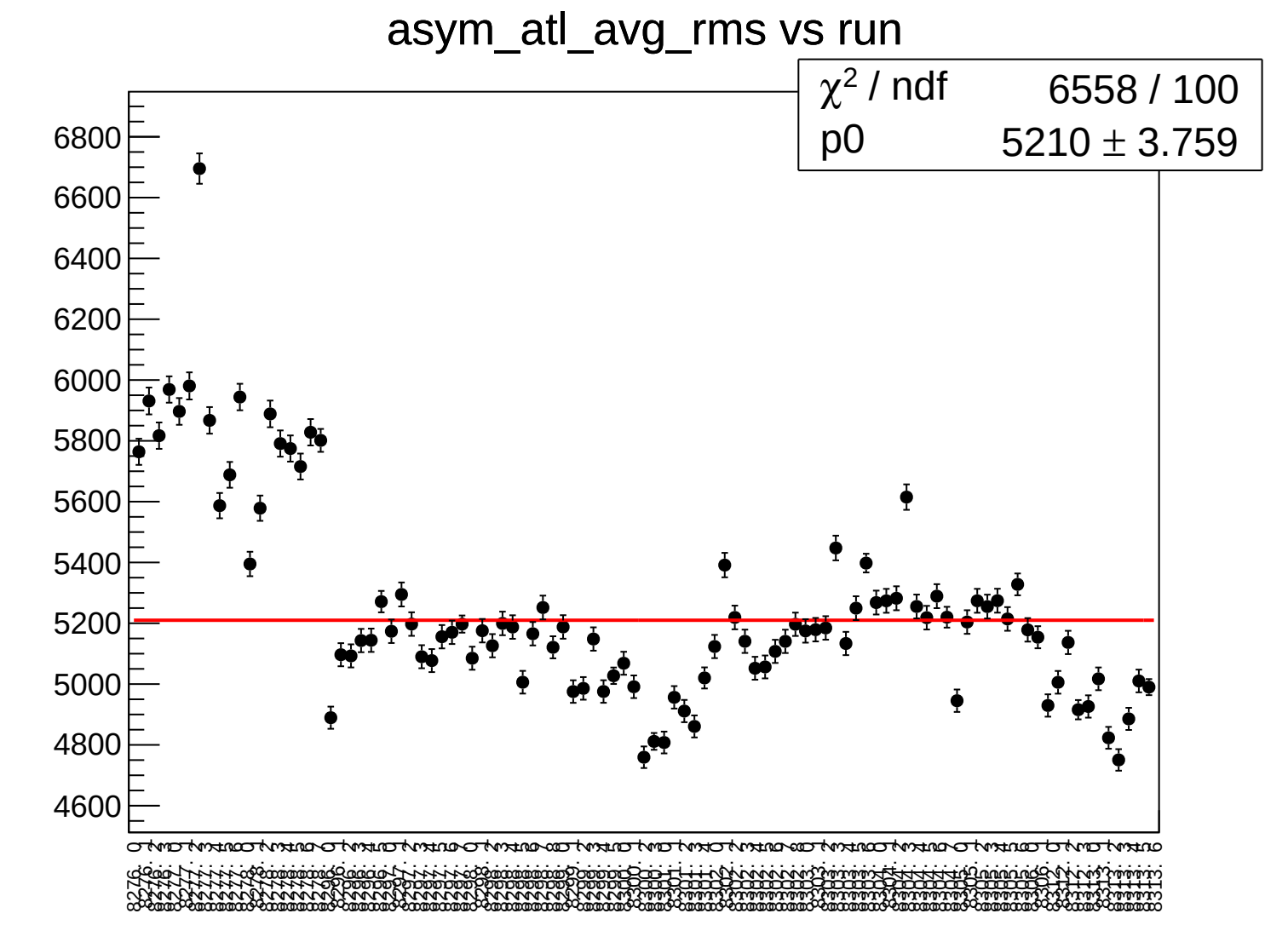

asym_atl_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 115 / 100
p0 −7432 ± 5035
200
100
0
−100
−200
pull
Entries 101
Mean −1160
Std Dev 0
2
1
0
−1
−2
−3

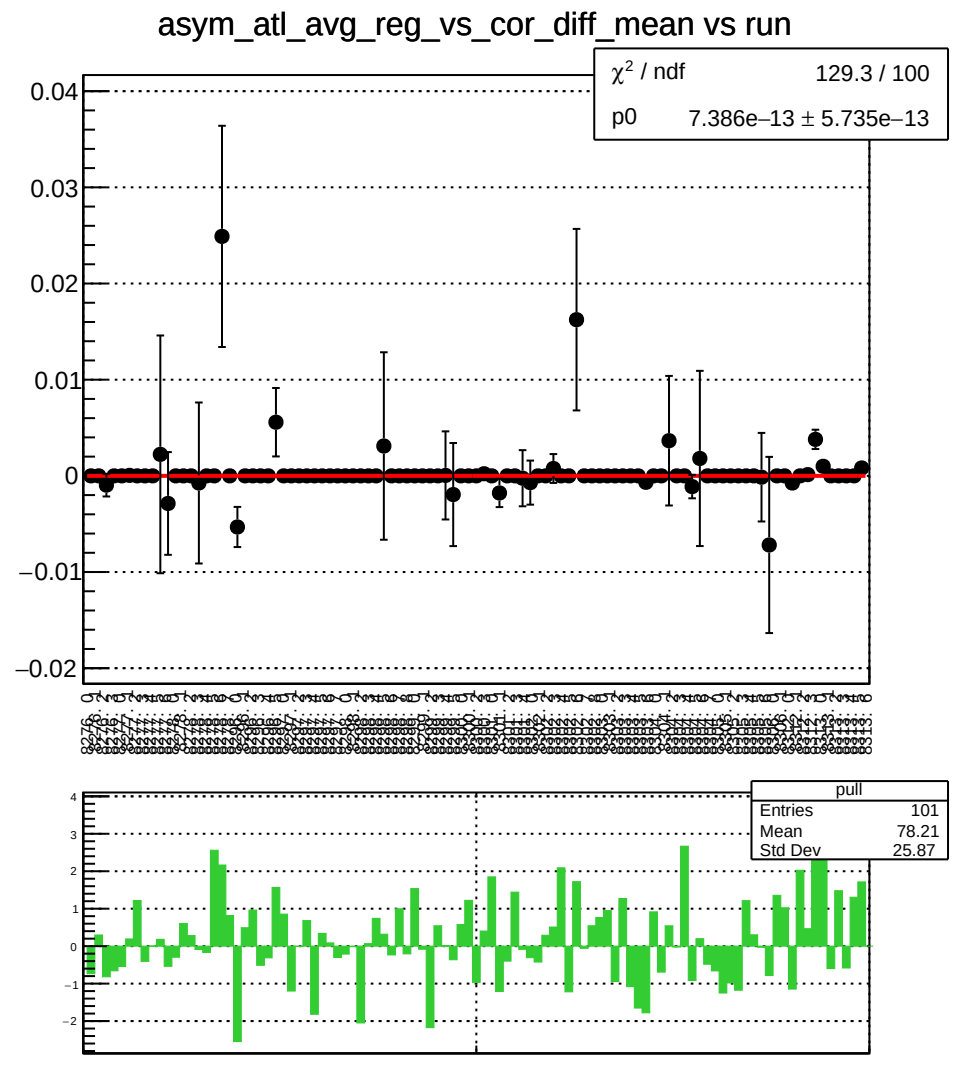

pull1D
Entries 101
Mean 0.005826
Std Dev 1.067
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

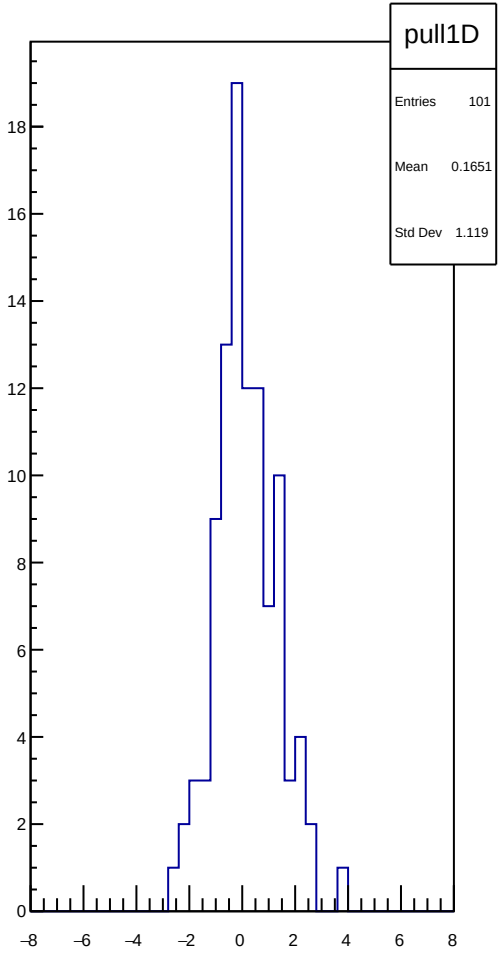

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 9106 / 100
p0 4931 ± 3.56
6500
6000
5500
5000
4500

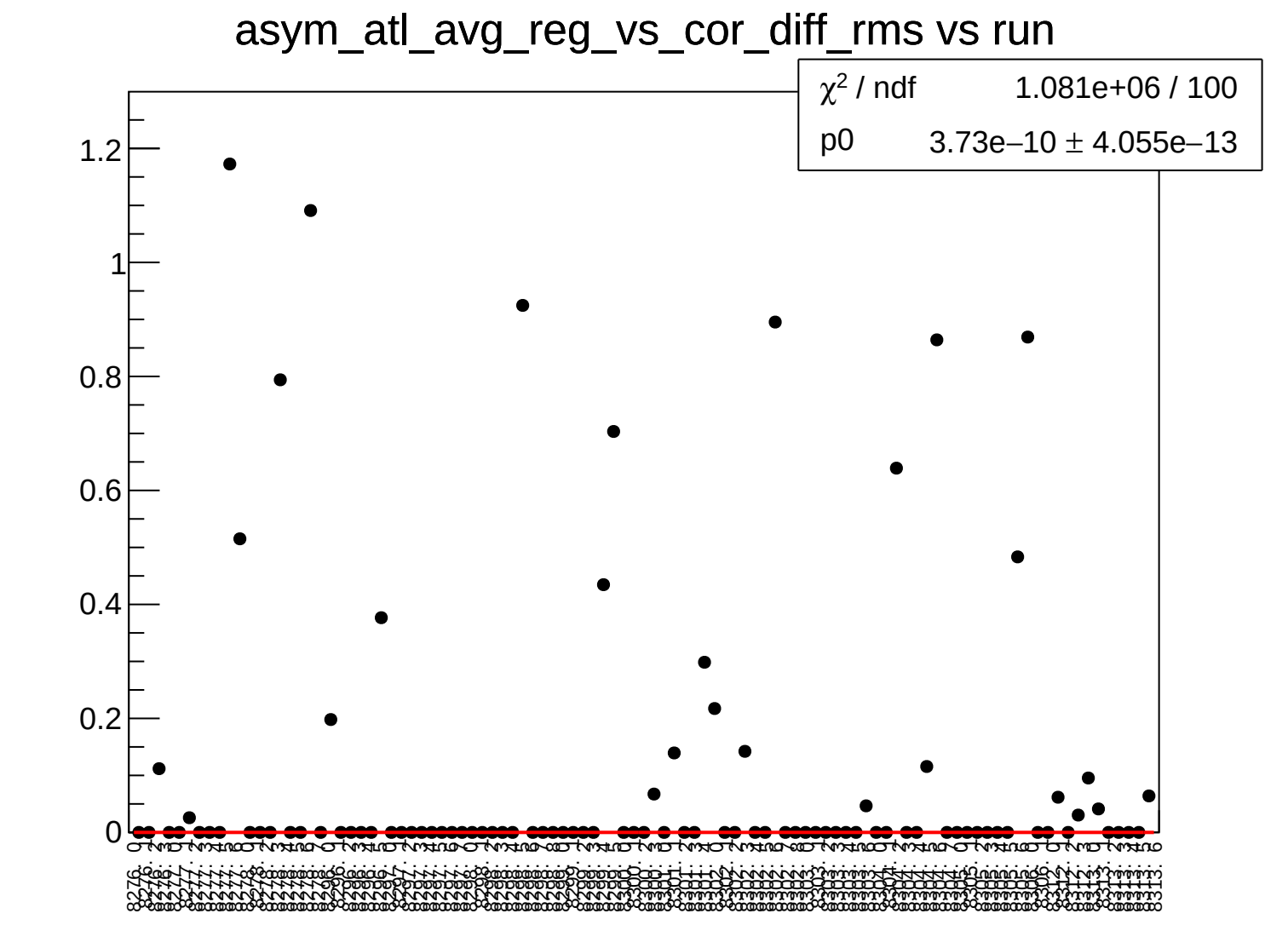

asym_atl_avg_mean vs run
×10^3
χ² / ndf 107.7 / 100
p0 1.025e+04 ± 5316
pull
Entries 101
Mean −574.8
Std Dev 0

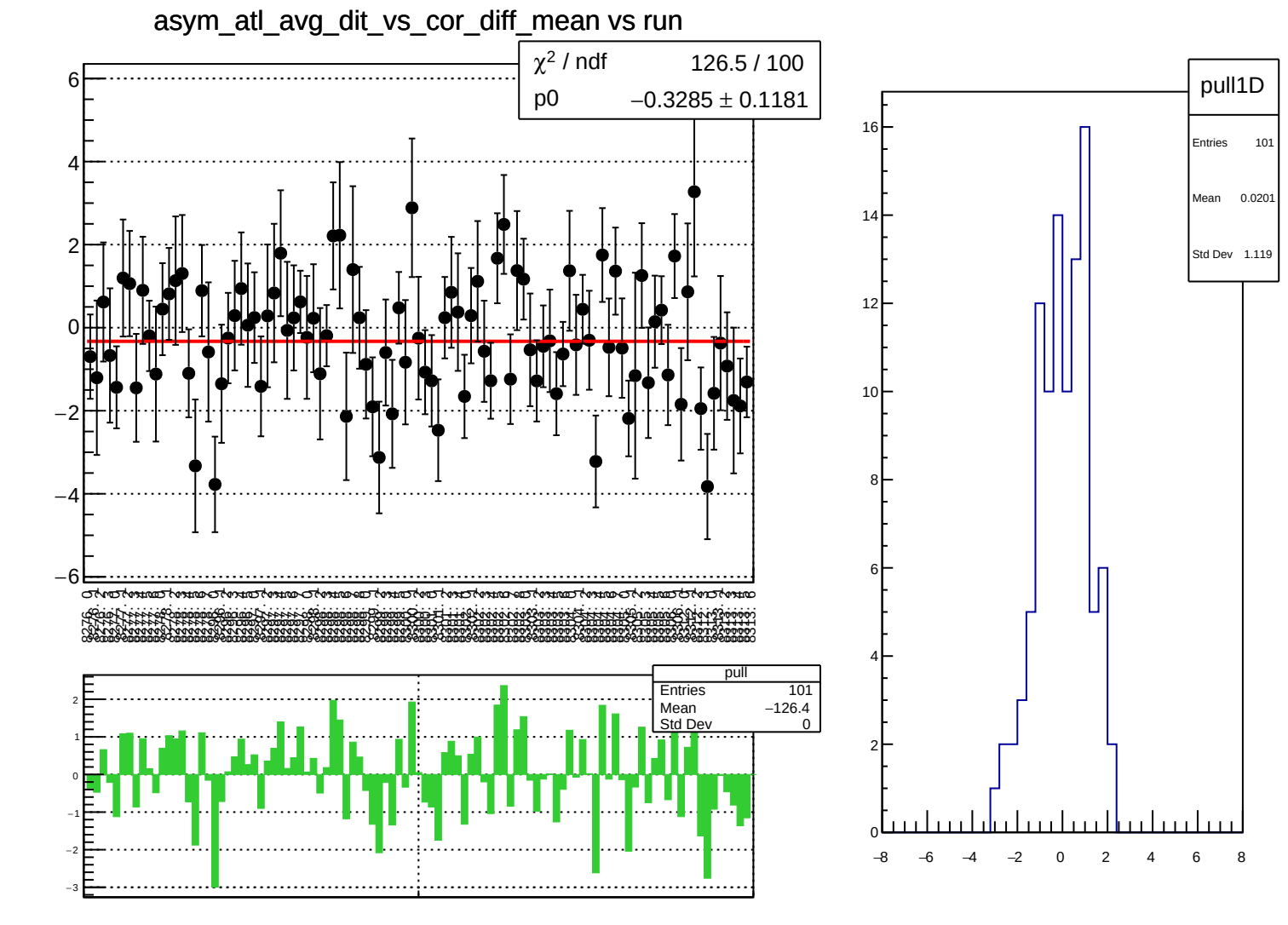

pull1D
Entries 101
Mean −0.01015
Std Dev 1.033

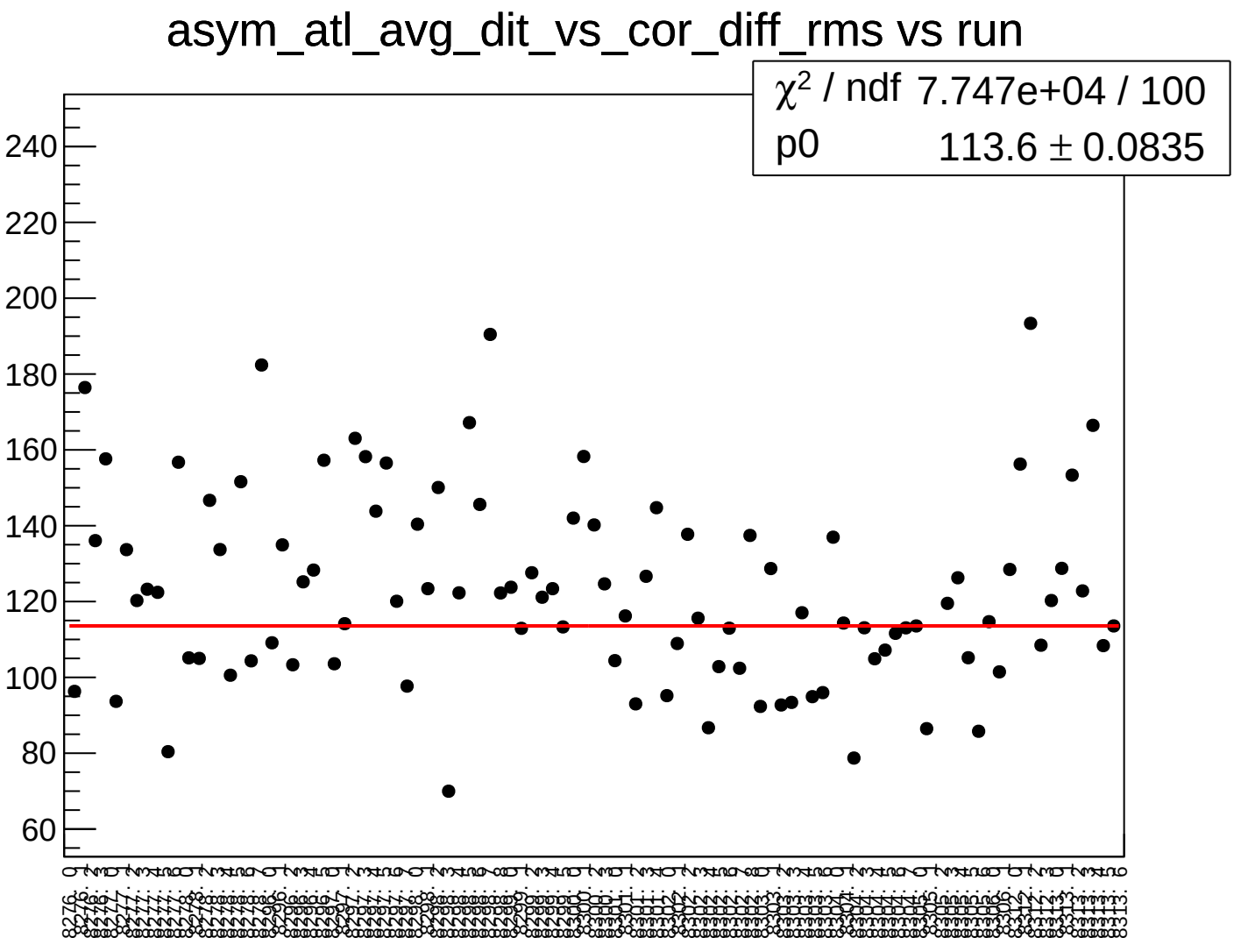

asym_atl_avg_rms vs run
χ^2 / ndf 6558 / 100
p0 5210 ± 3.759
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600

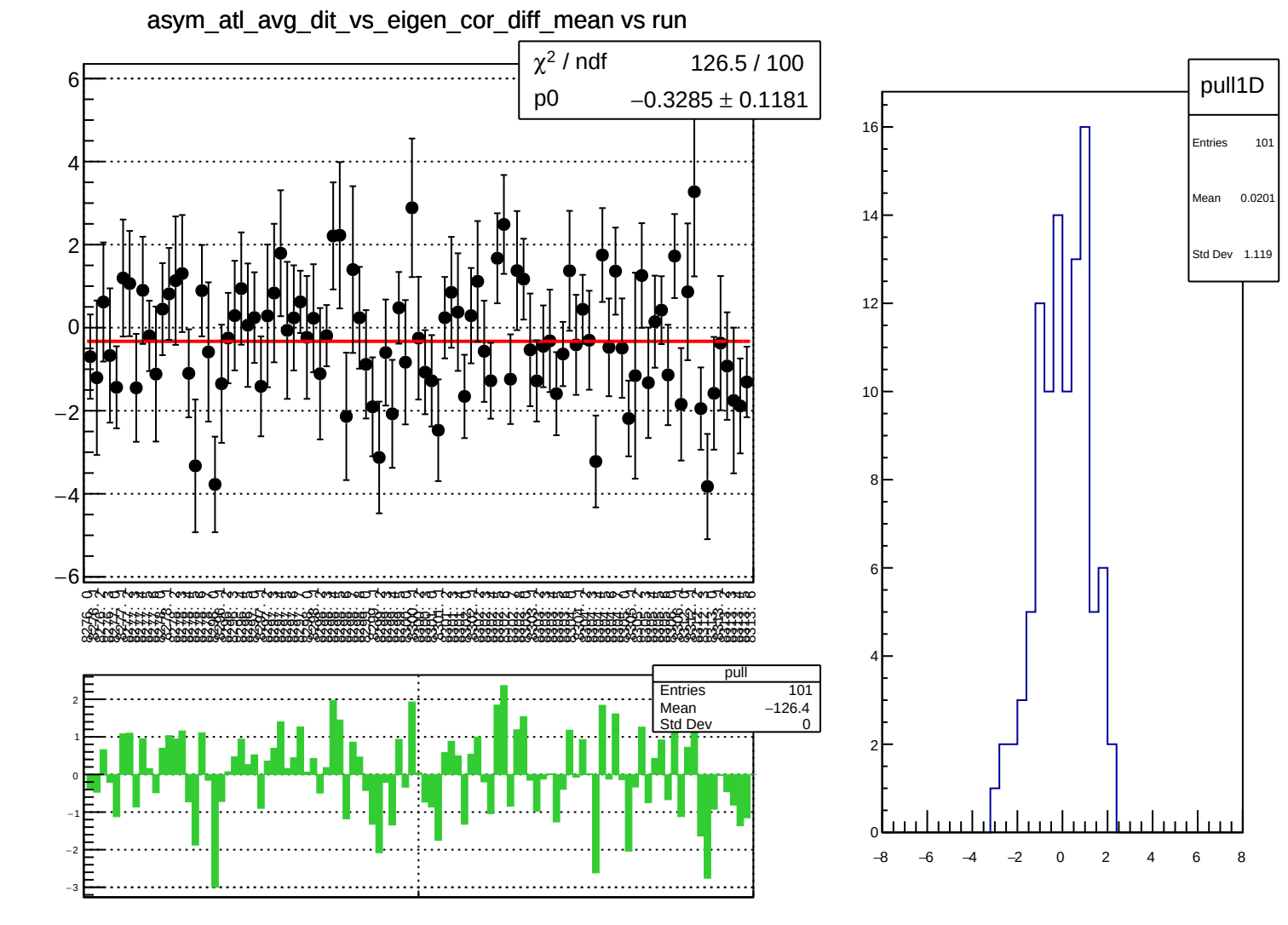

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 129.3 / 100
p0 7.386e−13 ± 5.735e−13
0.04
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 101
Mean 78.21
Std Dev 25.87
4
3
2
1
0
−1
−2

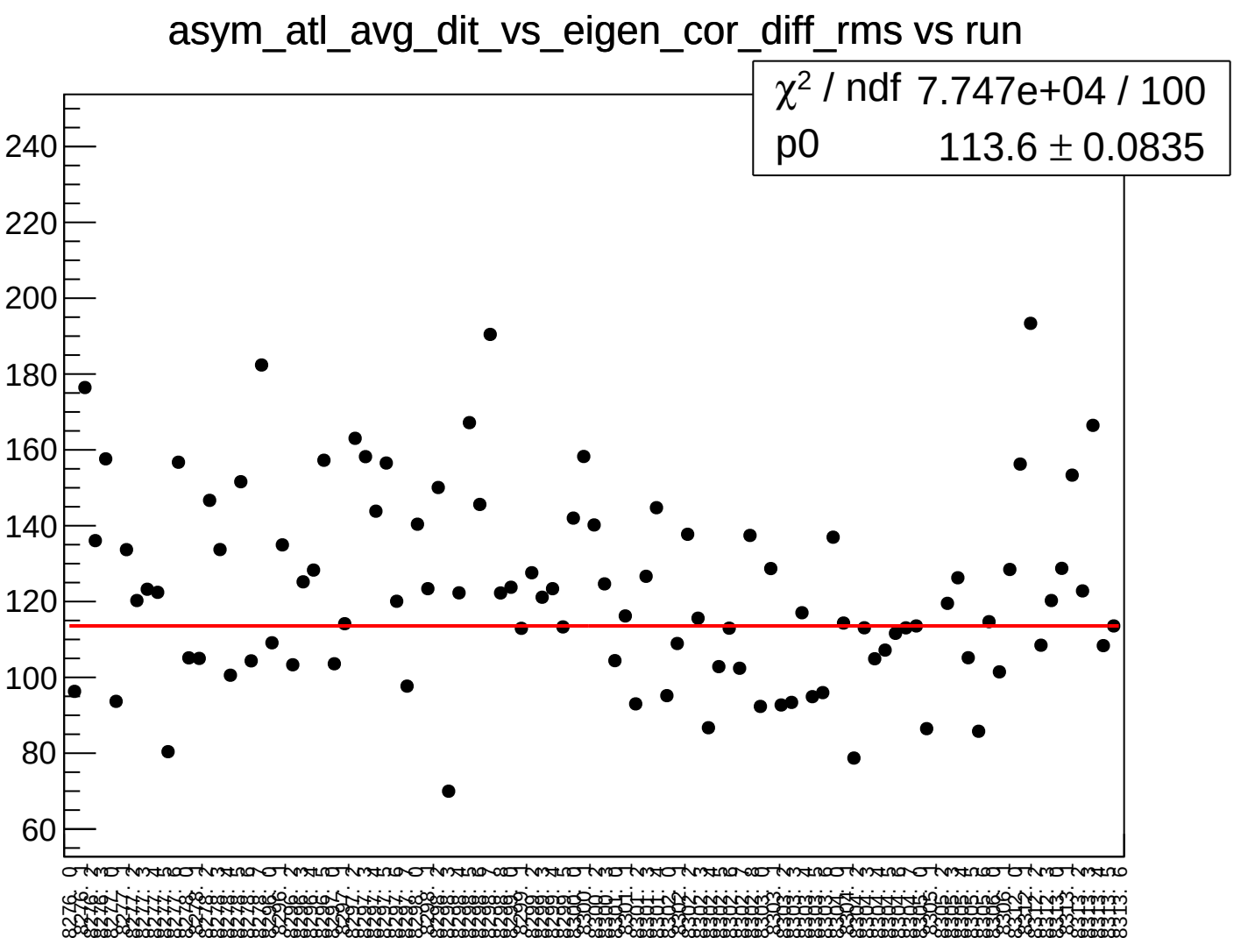

pull1D
Entries 101
Mean 0.1651
Std Dev 1.119
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

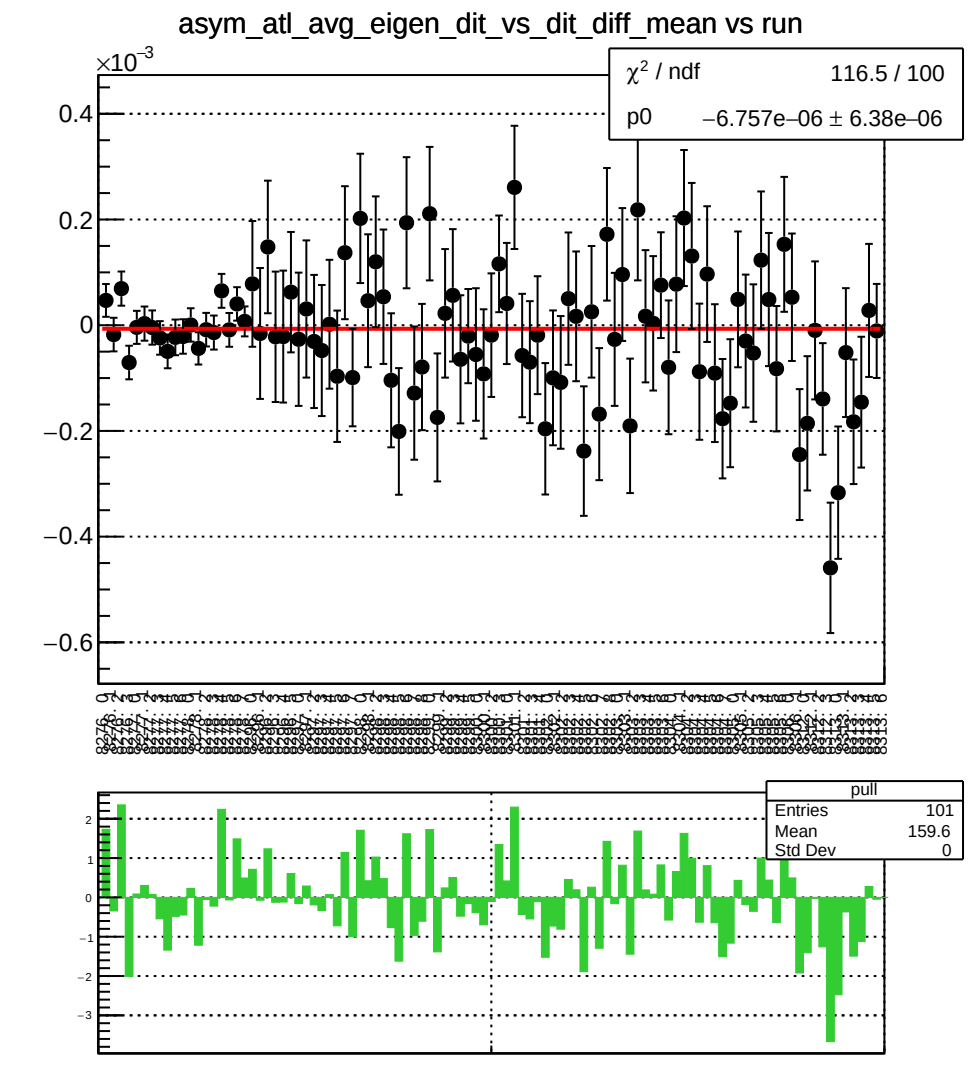

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.081e+06 / 100
p0 3.73e−10 ± 4.055e−13
1.2
1
0.8
0.6
0.4
0.2
0

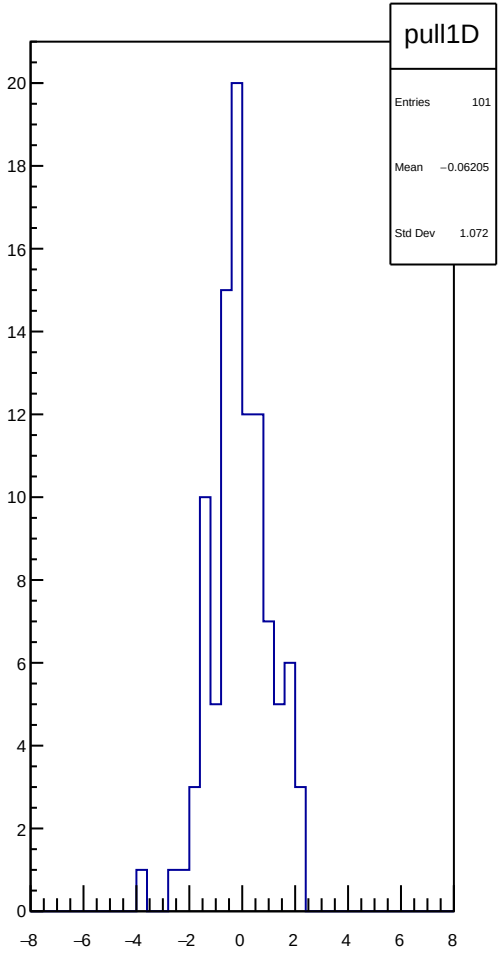

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 126.5 / 100
p0 −0.3285 ± 0.1181
pull
Entries 101
Mean −126.4
Std Dev 0
pull1D
Entries 101
Mean 0.0201
Std Dev 1.119

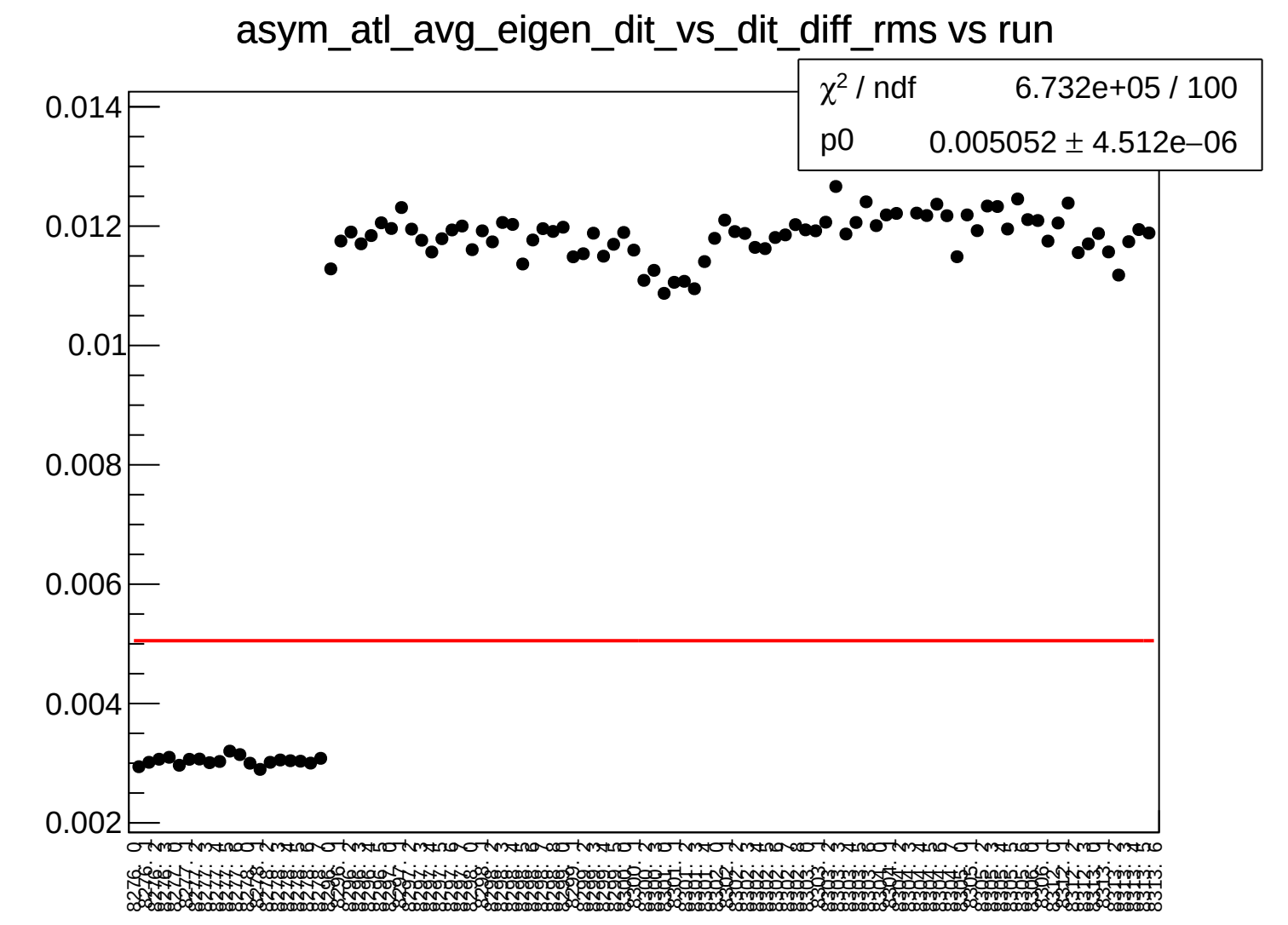

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.747e+04 / 100
p0 113.6 ± 0.0835
240
220
200
180
160
140
120
100
80
60

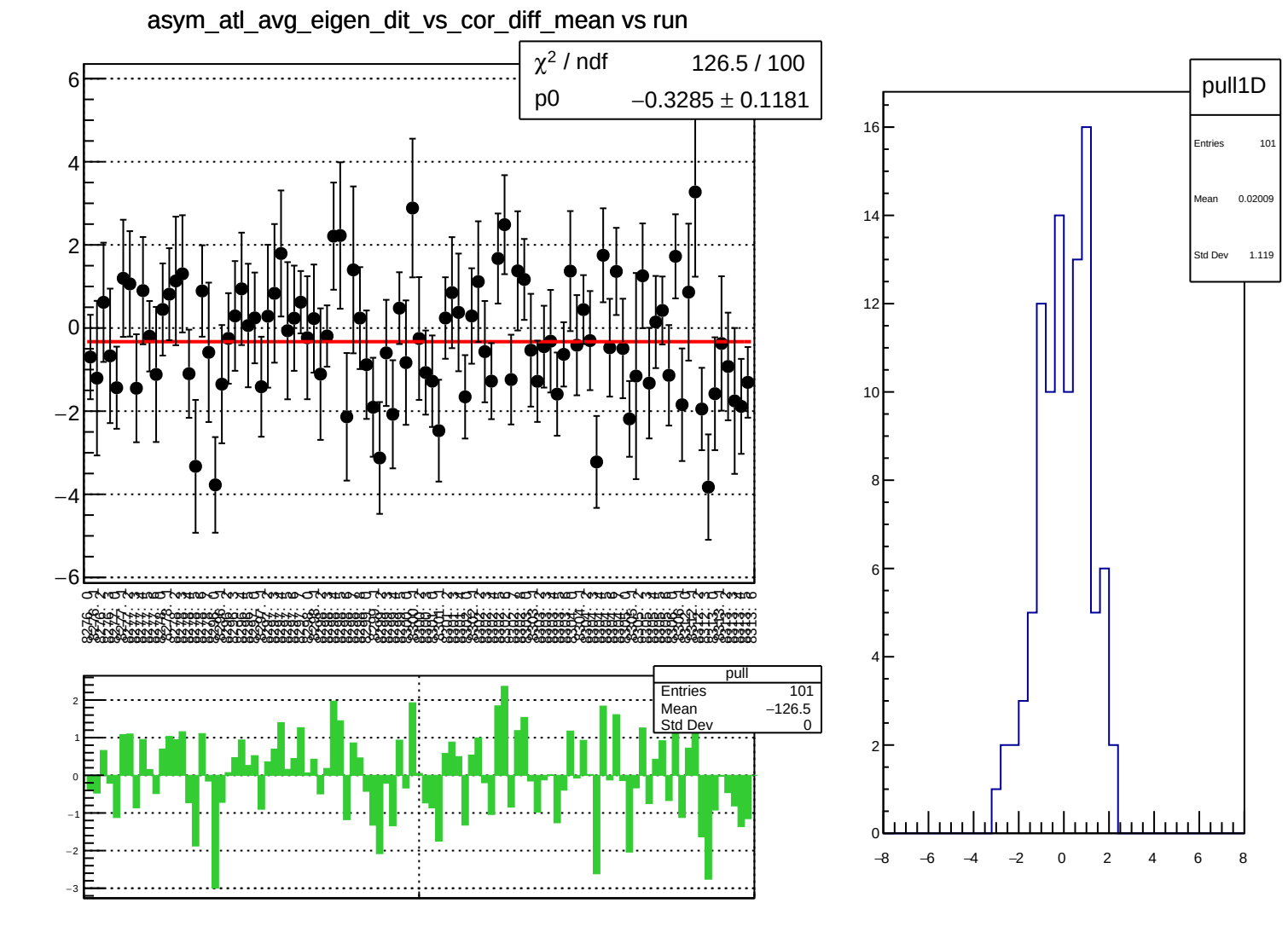

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 126.5 / 100
p0 −0.3285 ± 0.1181
pull
Entries 101
Mean −126.4
Std Dev 0
pull1D
Entries 101
Mean 0.0201
Std Dev 1.119

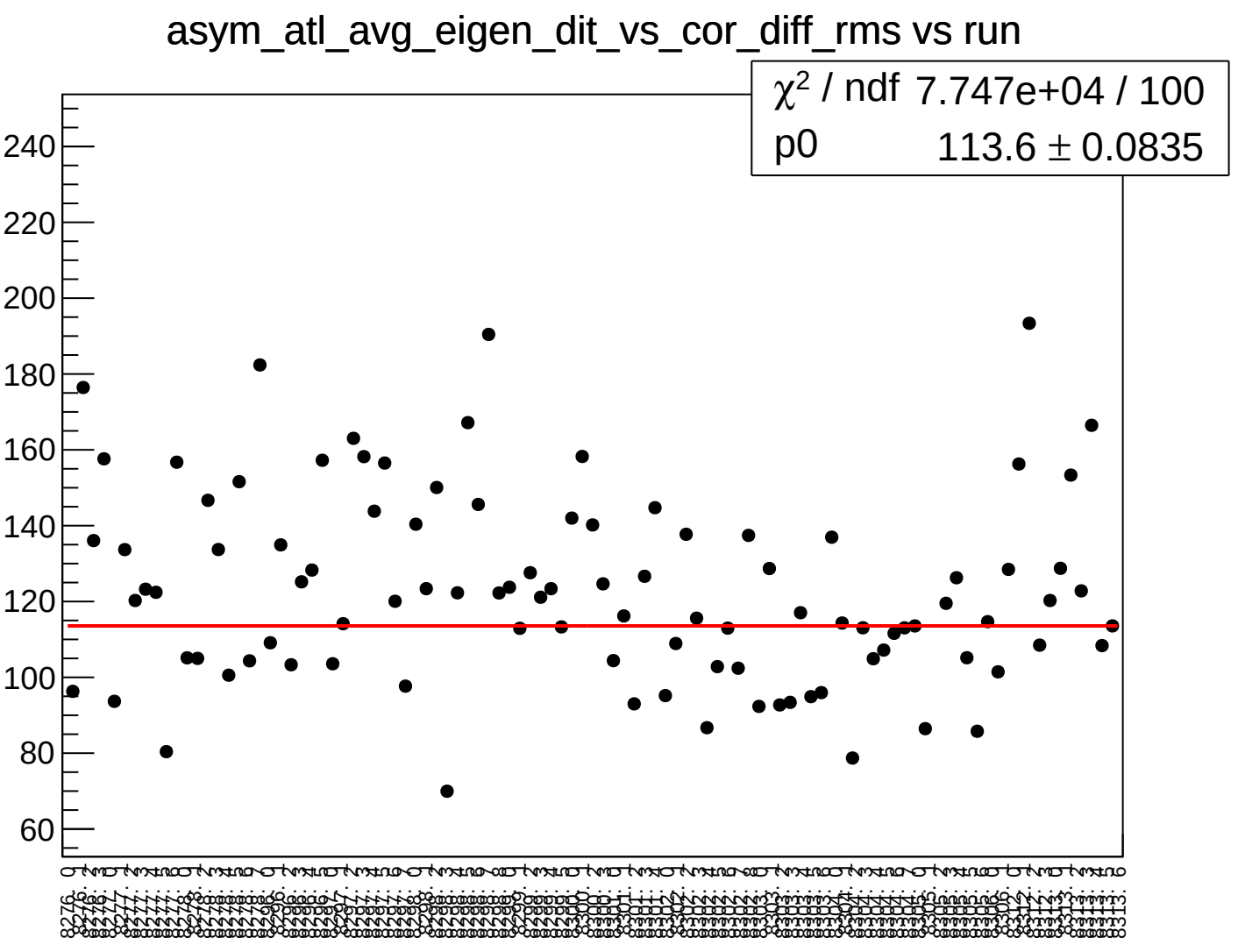

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.747e+04 / 100
p0 113.6 ± 0.0835
240
220
200
180
160
140
120
100
80
60

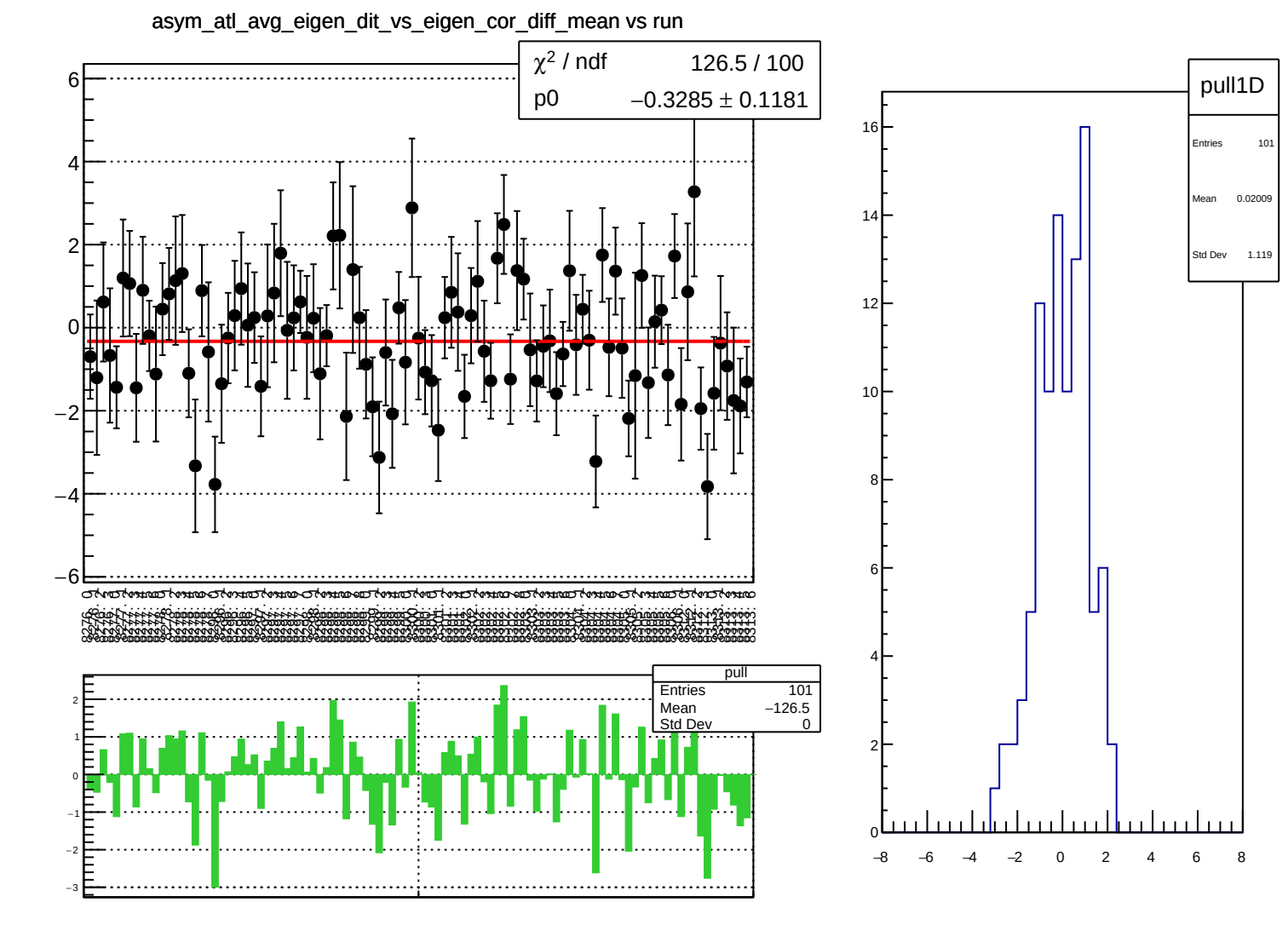

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 116.5 / 100
p0 −6.757e−06 ± 6.38e−06
pull
Entries 101
Mean 159.6
Std Dev 0

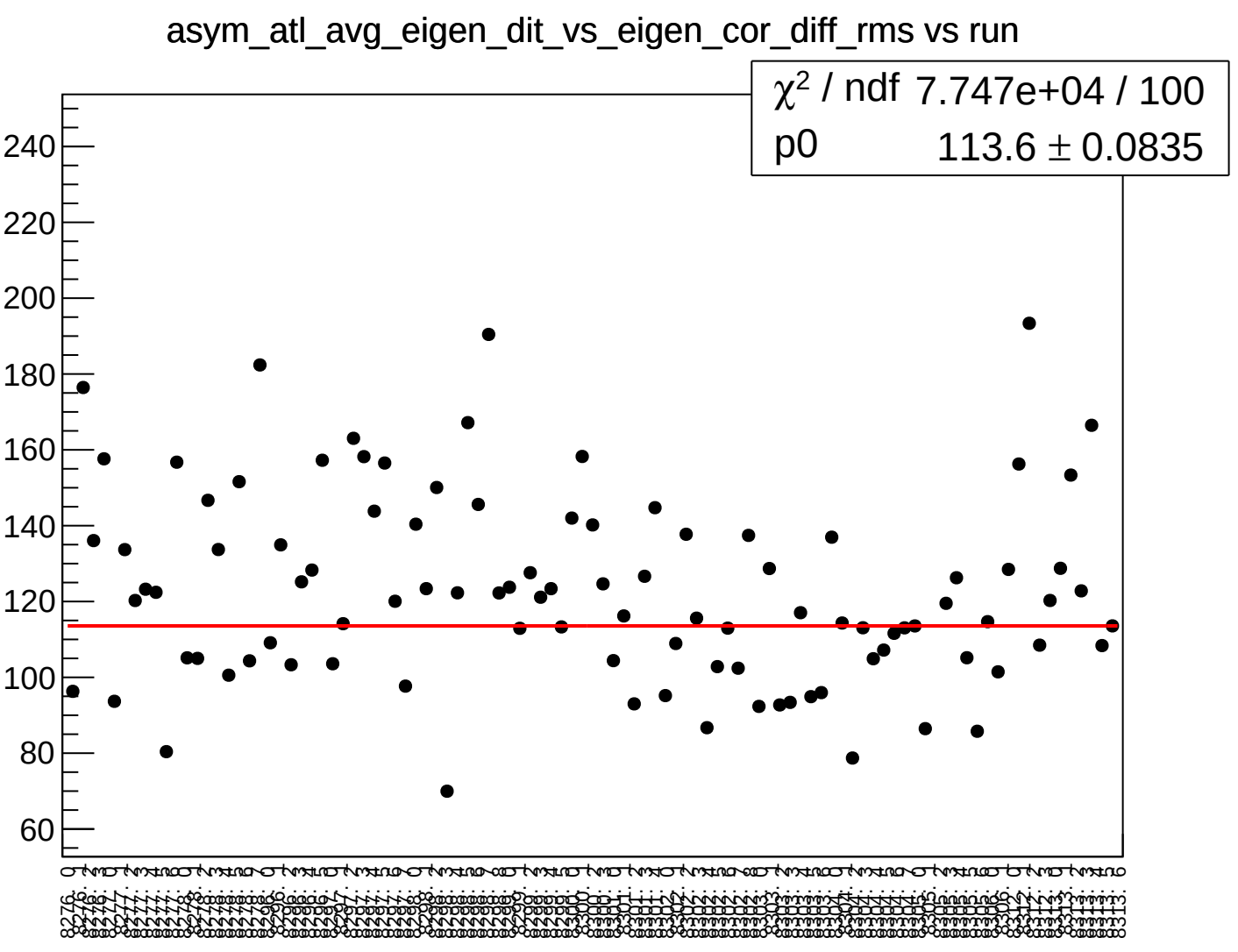

pull1D
Entries 101
Mean −0.06205
Std Dev 1.072

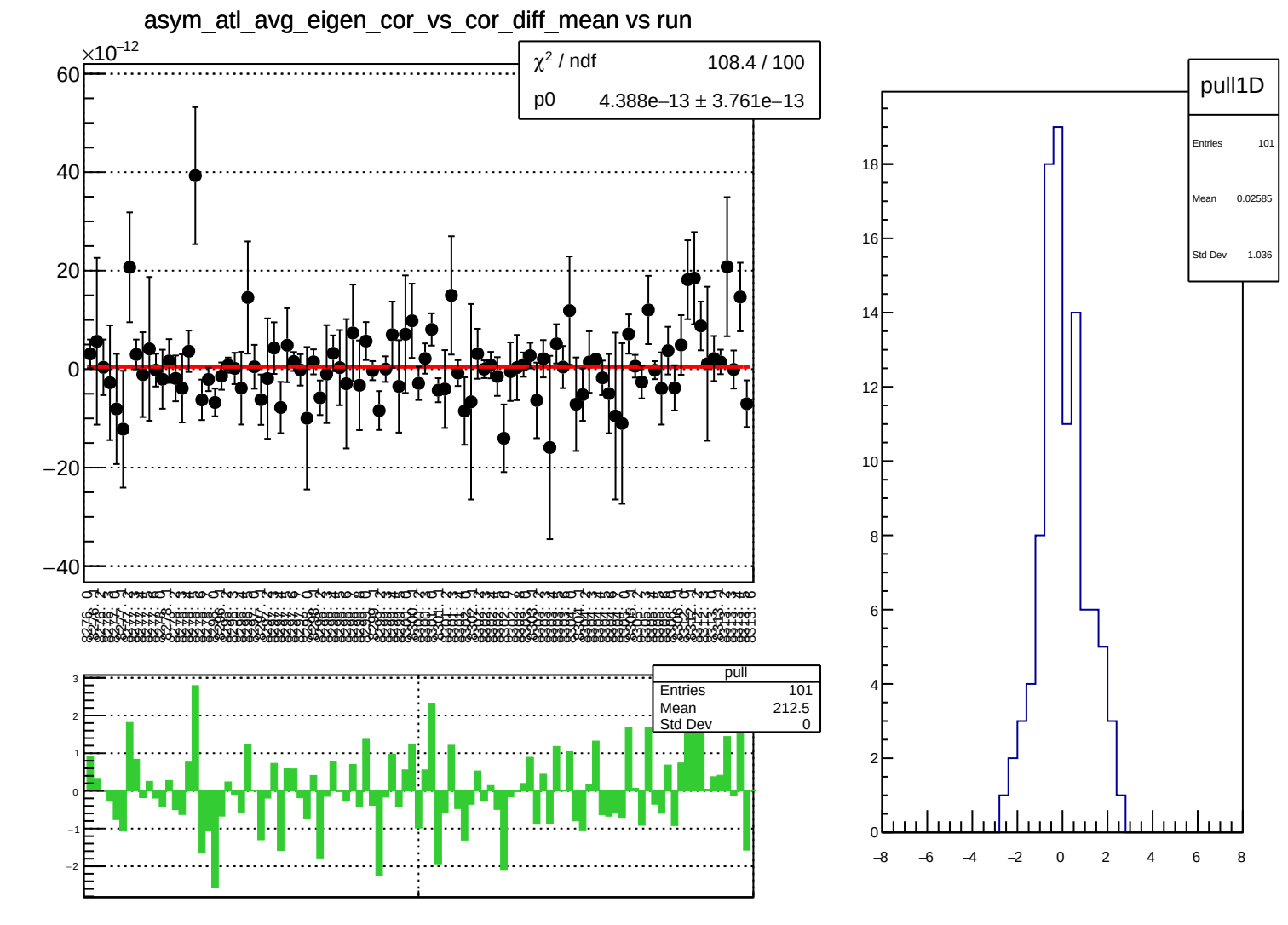

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.732e+05 / 100
p0 0.005052 ± 4.512e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002

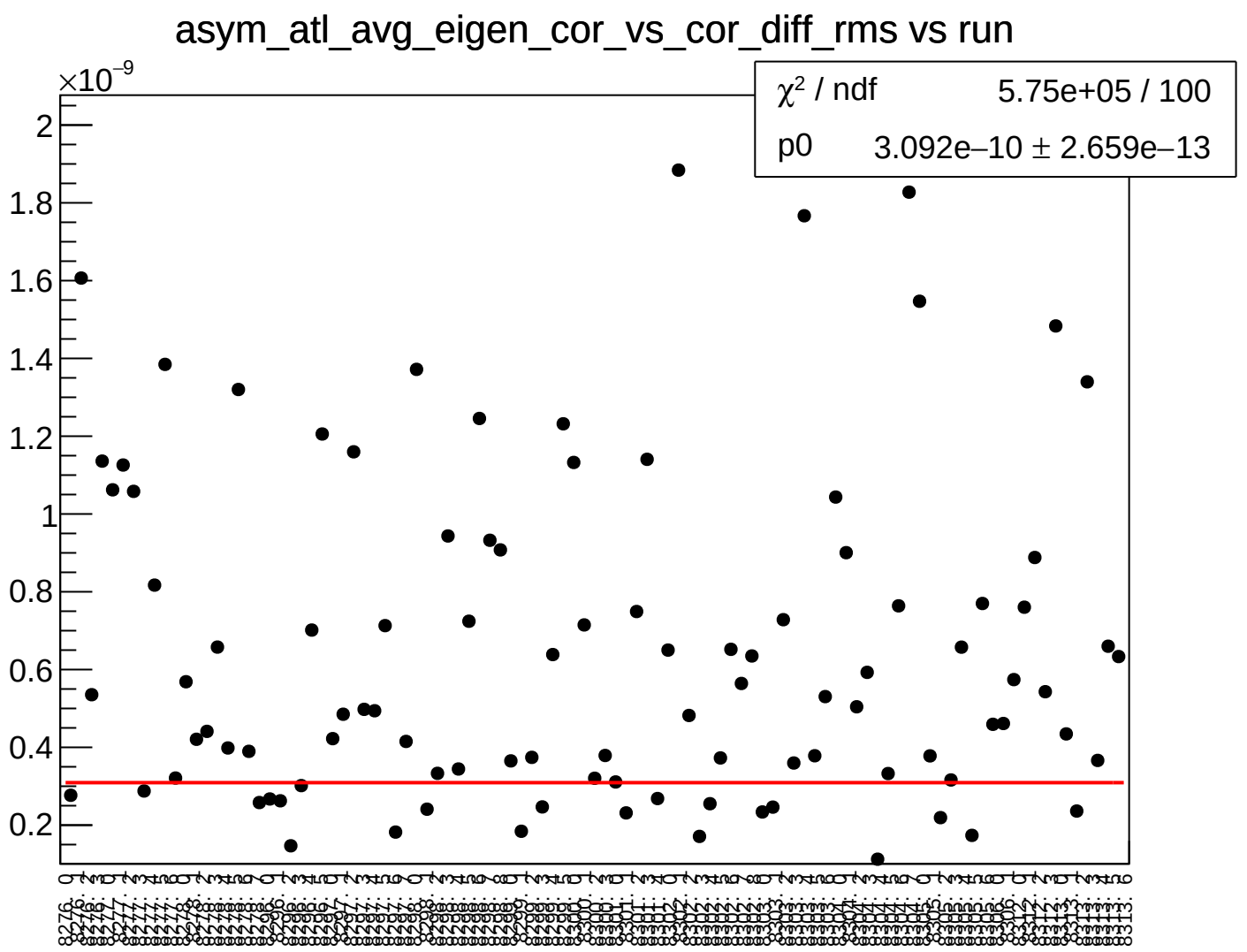

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 126.5 / 100
p0 −0.3285 ± 0.1181
pull
Entries 101
Mean −126.5
Std Dev 0
pull1D
Entries 101
Mean 0.02009
Std Dev 1.119

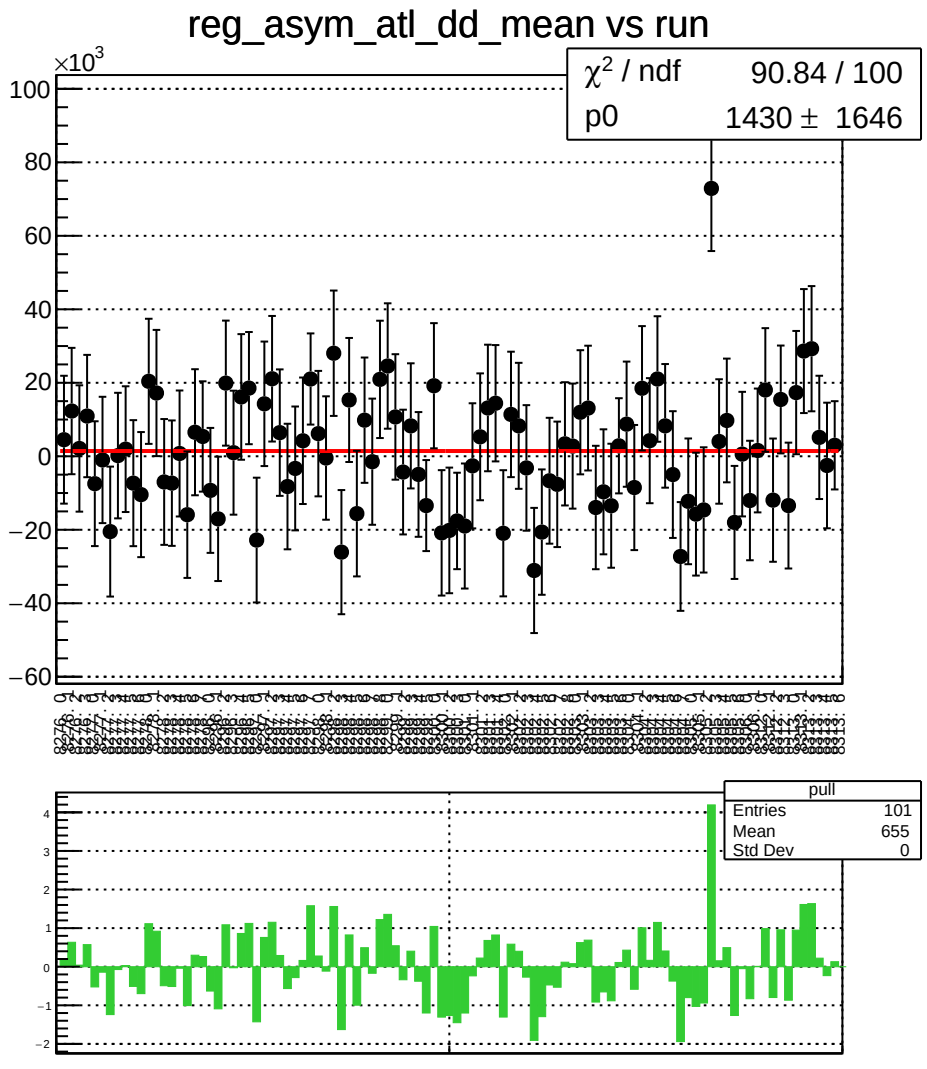

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.747e+04 / 100
p0 113.6 ± 0.0835
240
220
200
180
160
140
120
100
80
60

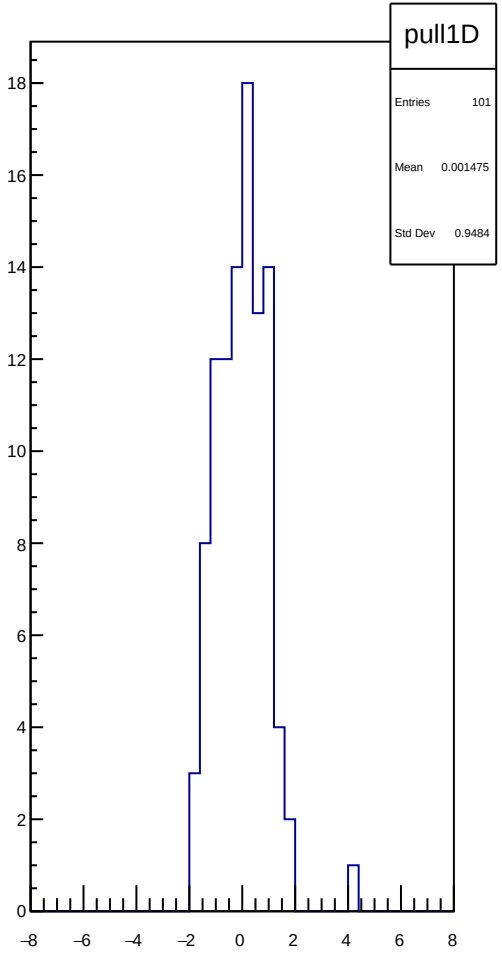

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 126.5 / 100
p0 −0.3285 ± 0.1181
pull
Entries 101
Mean −126.5
Std Dev 0
pull1D
Entries 101
Mean 0.02009
Std Dev 1.119

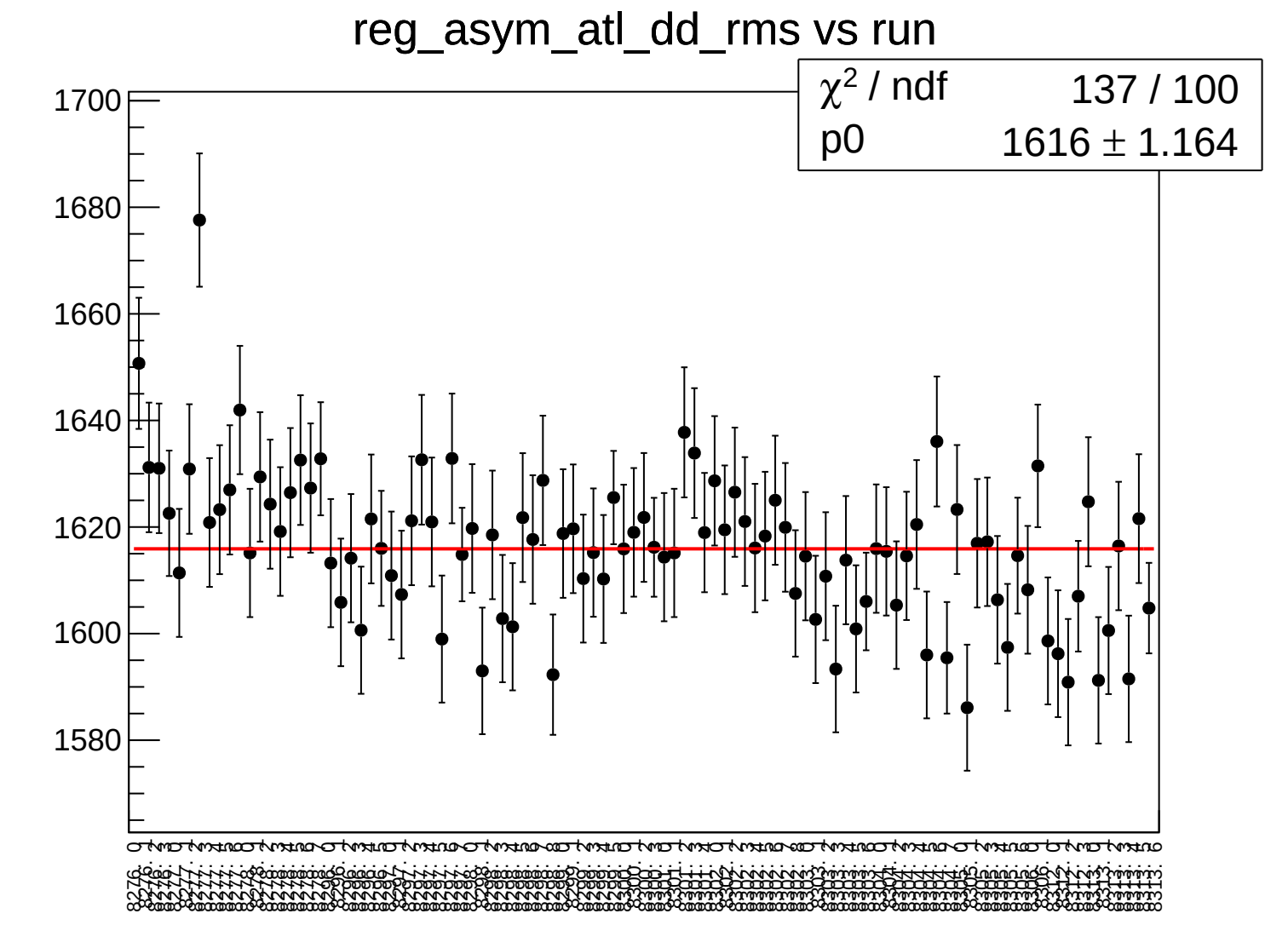

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.747e+04 / 100
p0 113.6 ± 0.0835
240
220
200
180
160
140
120
100
80
60

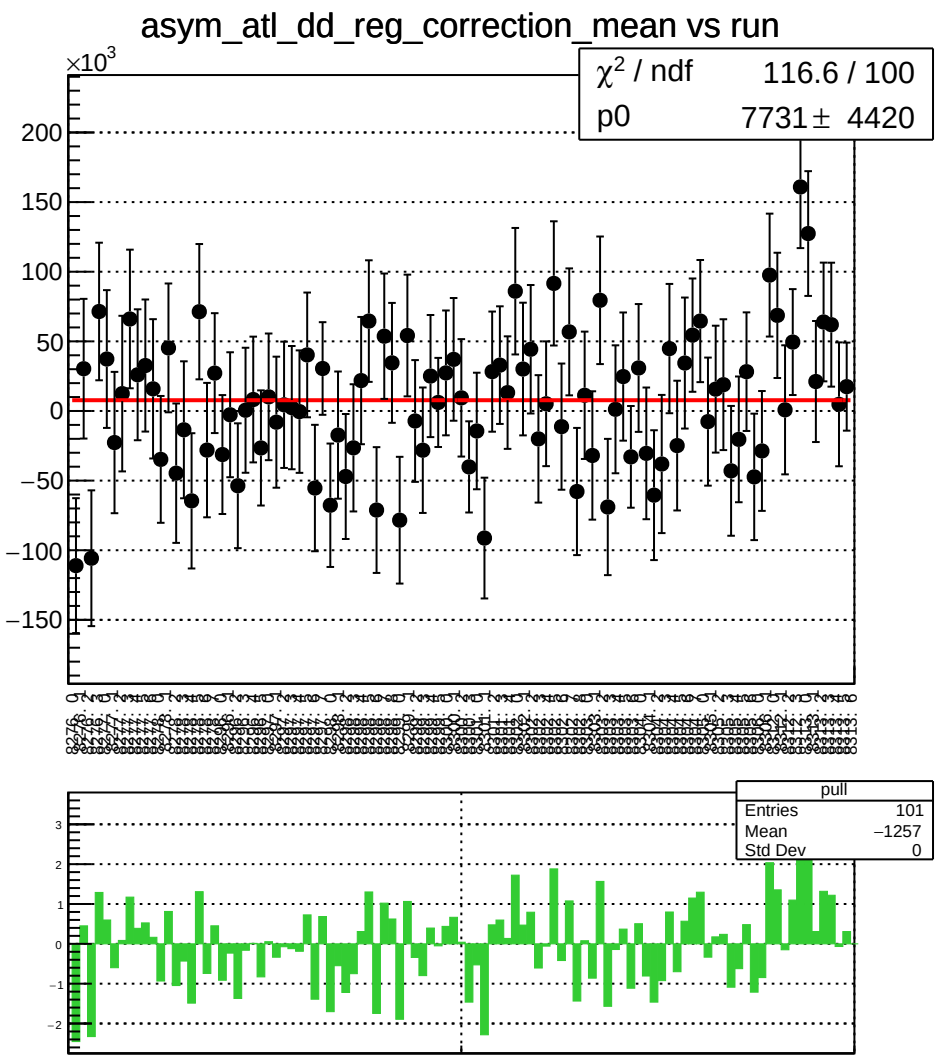

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 108.4 / 100
p0 4.388e−13 ± 3.761e−13
pull
Entries 101
Mean 212.5
Std Dev 0
pull1D
Entries 101
Mean 0.02585
Std Dev 1.036

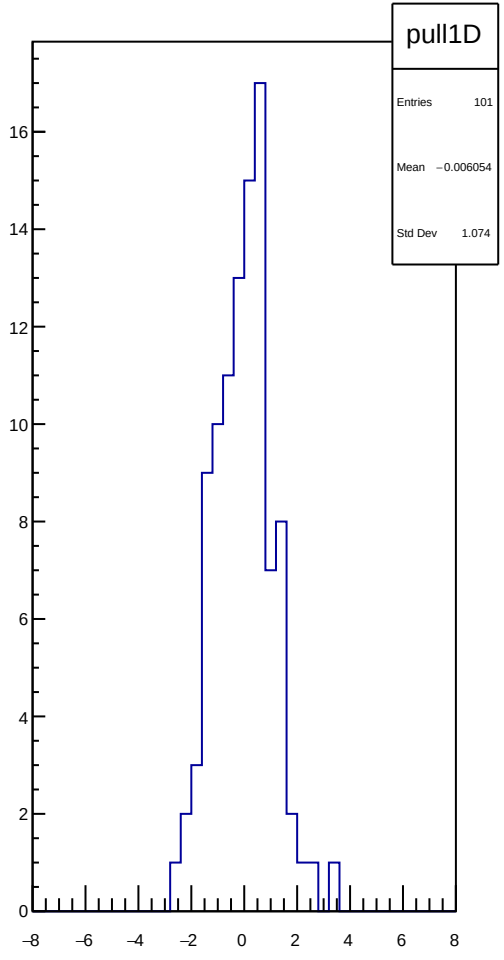

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.75e+05 / 100
p0 3.092e−10 ± 2.659e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2


reg_asym_atl_dd_mean vs run
×10^3
χ^2 / ndf 90.84 / 100
p0 1430 ± 1646
pull
Entries 101
Mean 655
Std Dev 0

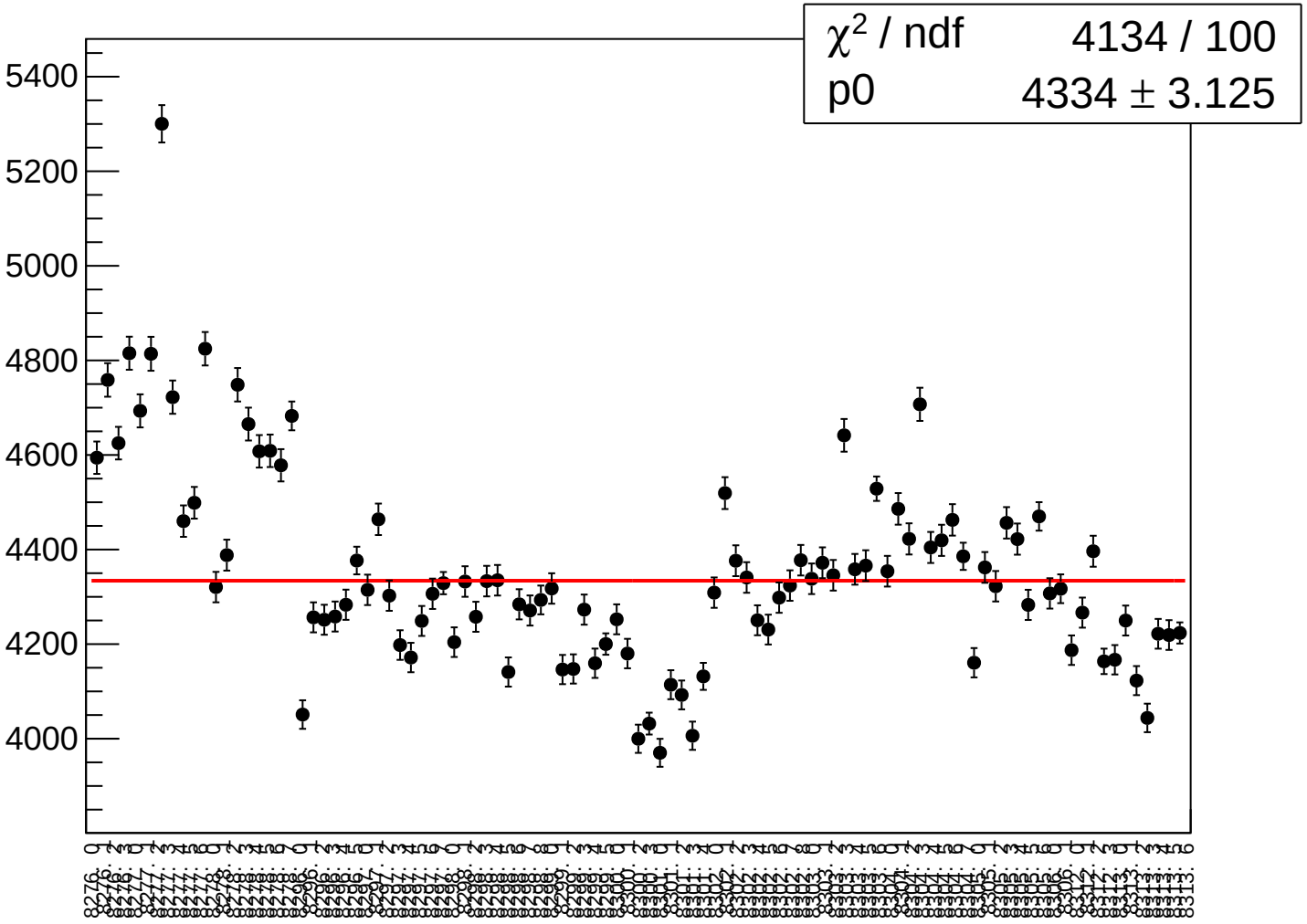

pull1D
Entries 101
Mean 0.001475
Std Dev 0.9484

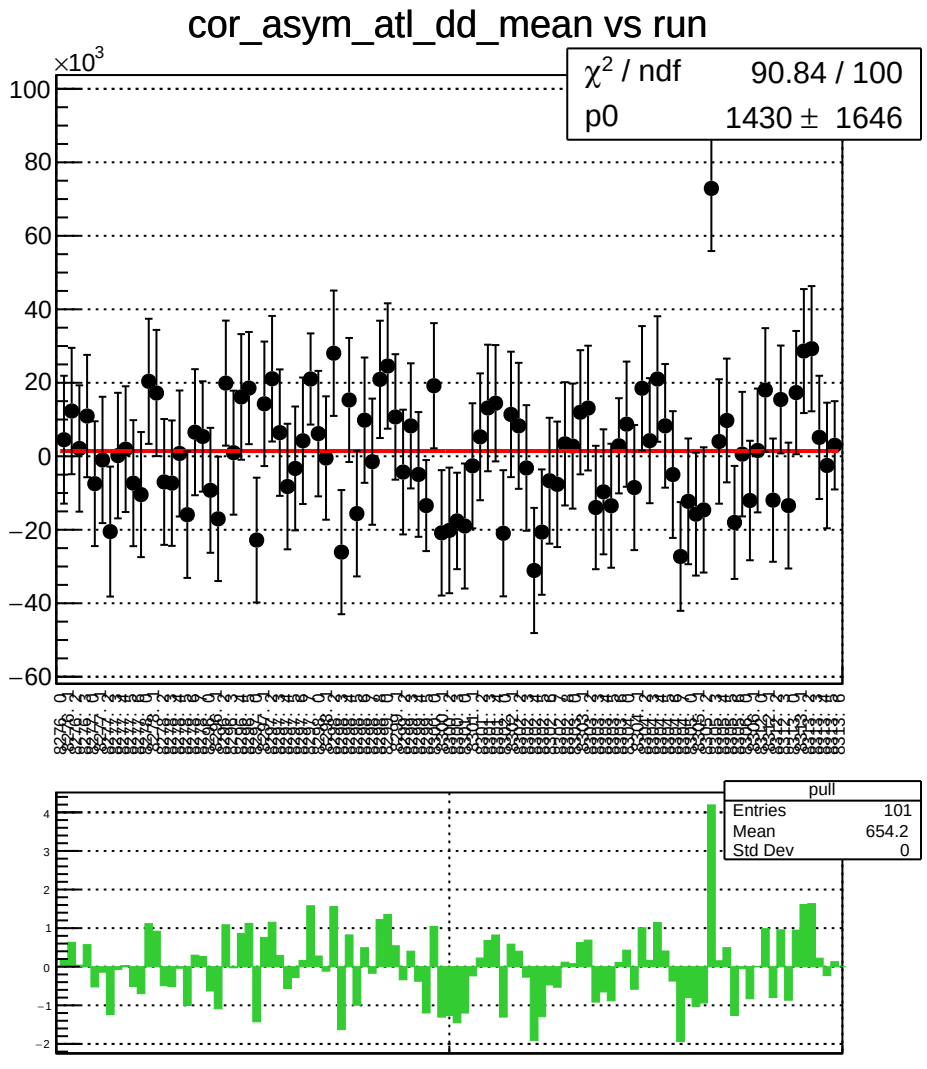

reg_asym_atl_dd_rms vs run
χ² / ndf 137 / 100
p0 1616 ± 1.164
1700
1680
1660
1640
1620
1600
1580

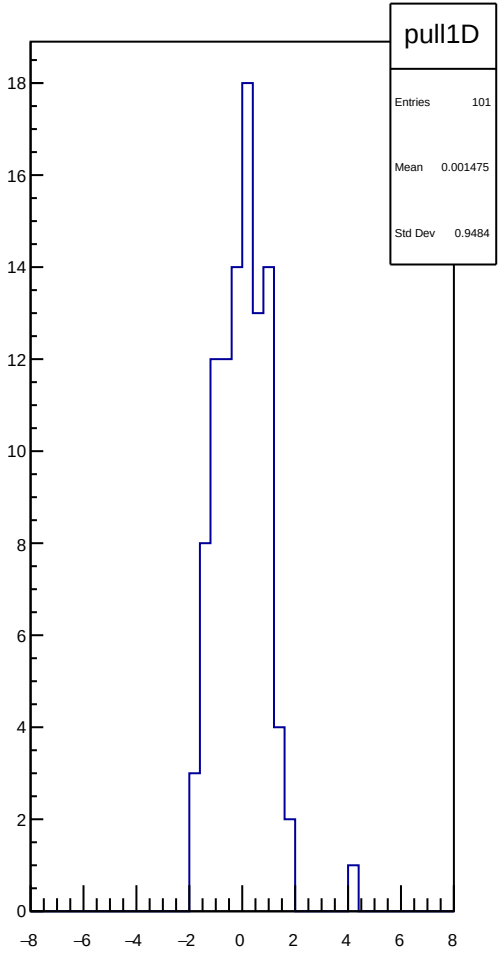

asym_atl_dd_reg_correction_mean vs run
×10^3
χ² / ndf 116.6 / 100
p0 7731 ± 4420
200
150
100
50
0
−50
−100
−150
pull
Entries 101
Mean −1257
Std Dev 0
3
2
1
0
−1
−2

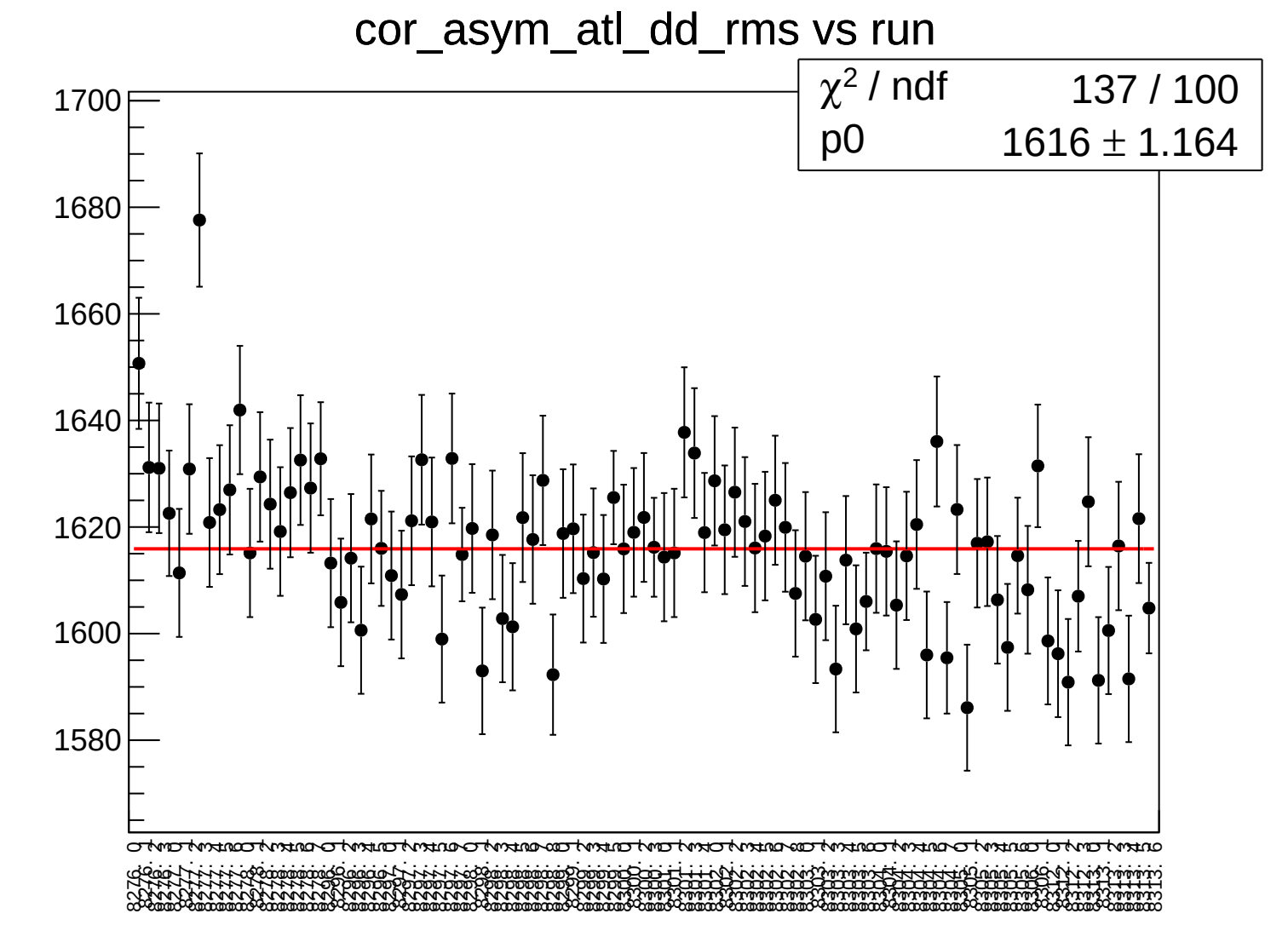

pull1D
Entries 101
Mean −0.006054
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

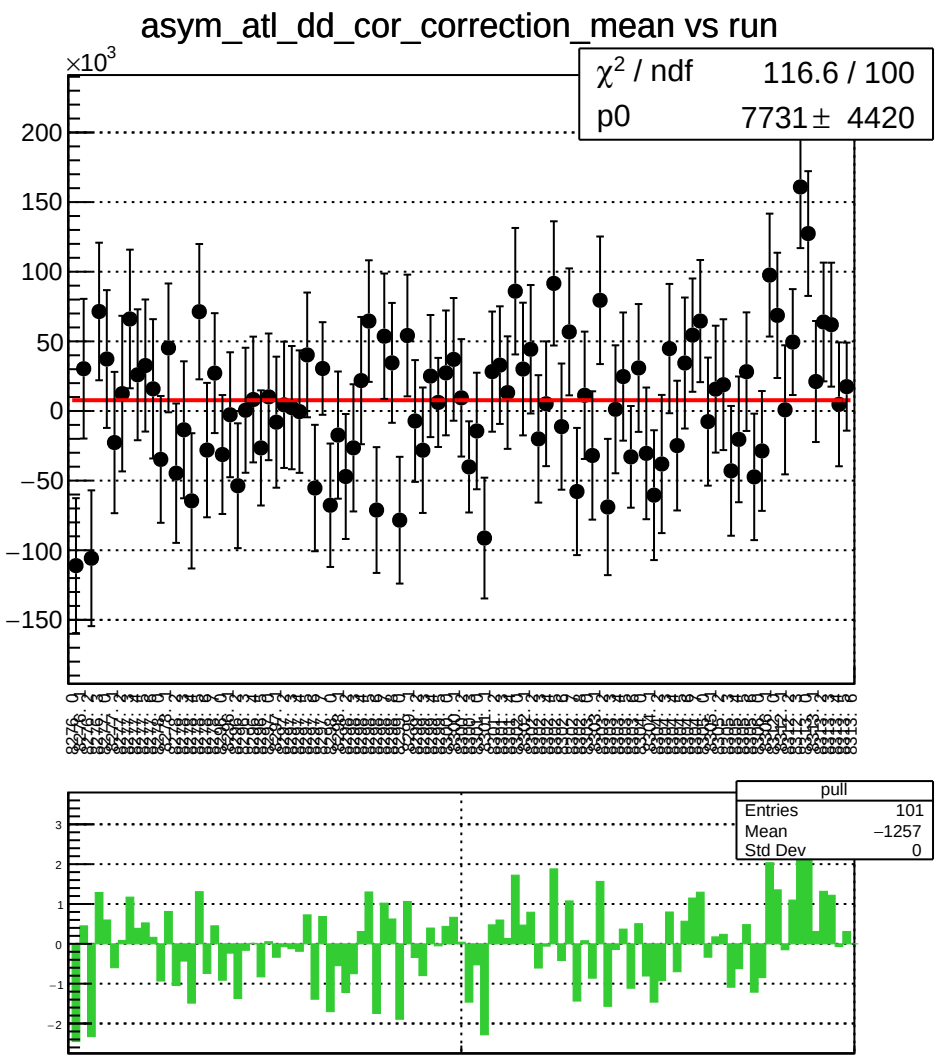
asym_atl_dd_reg_correction_rms vs run

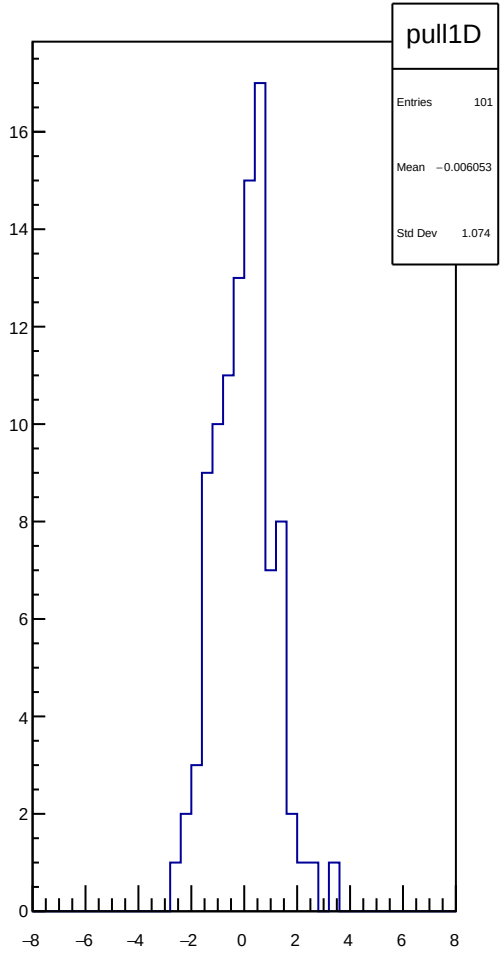


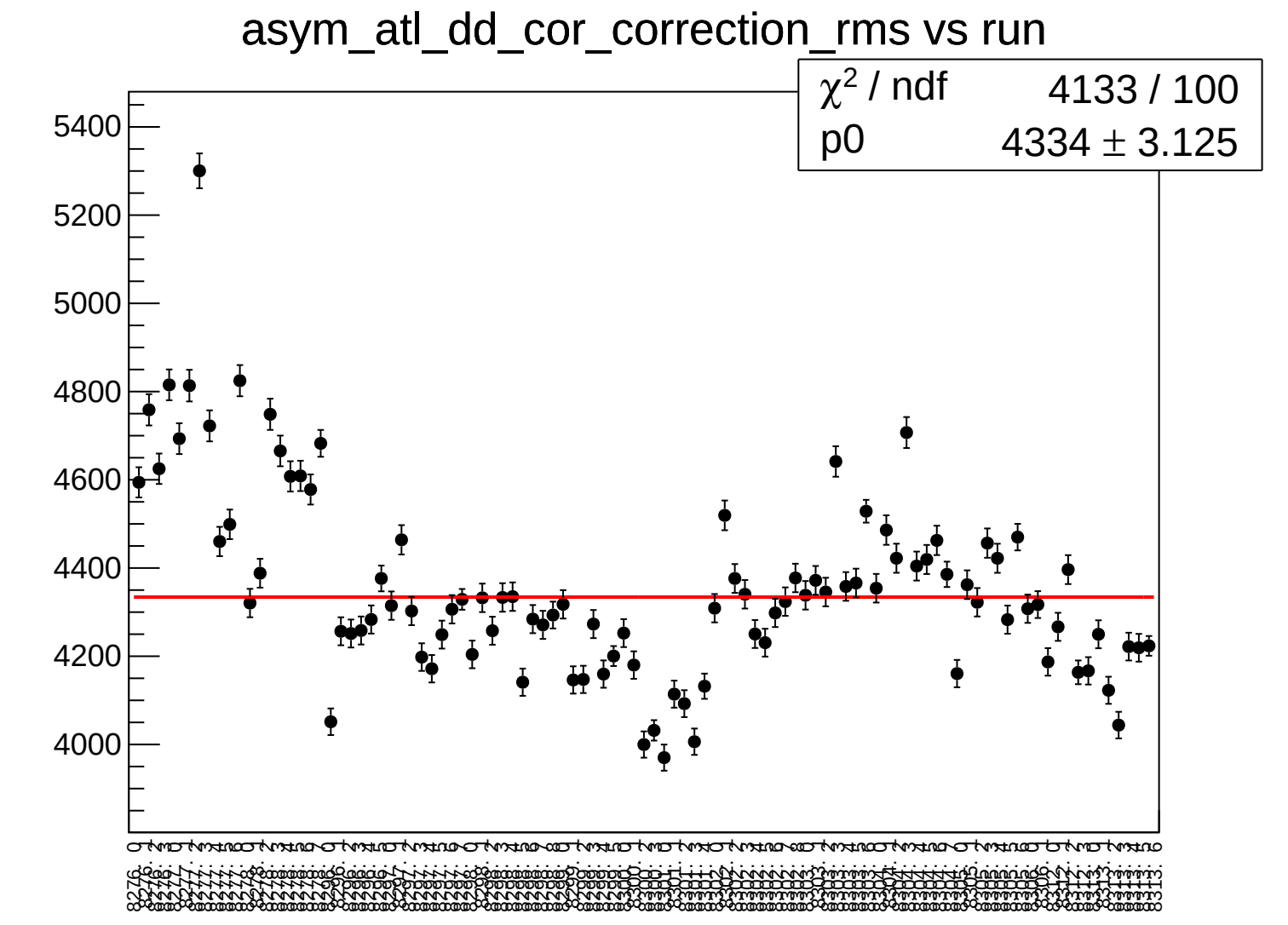

cor_asym_atl_dd_mean vs run
×10^3
χ^2 / ndf 90.84 / 100
p0 1430 ± 1646
pull
Entries 101
Mean 654.2
Std Dev 0

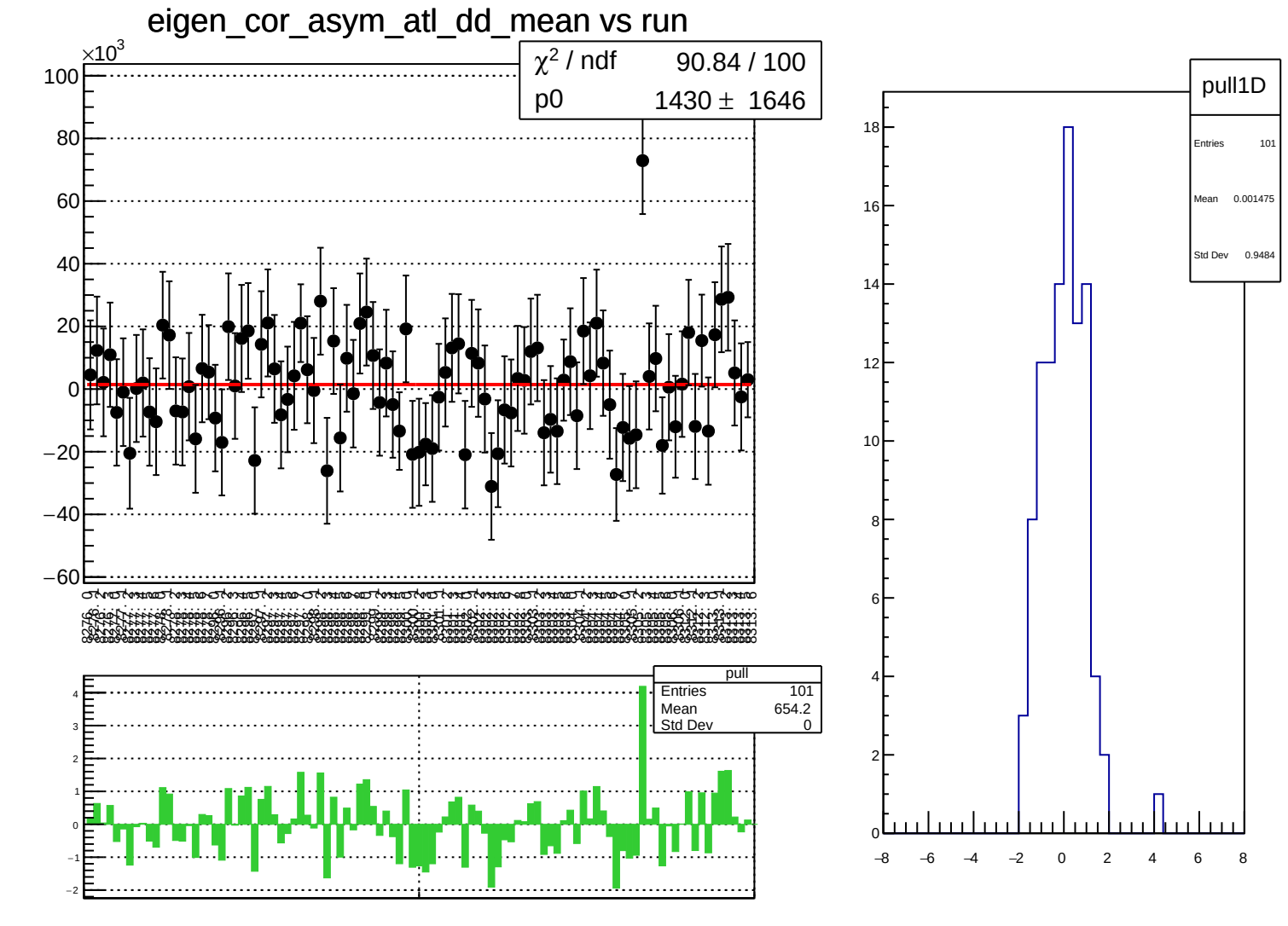

pull1D
Entries 101
Mean 0.001475
Std Dev 0.9484

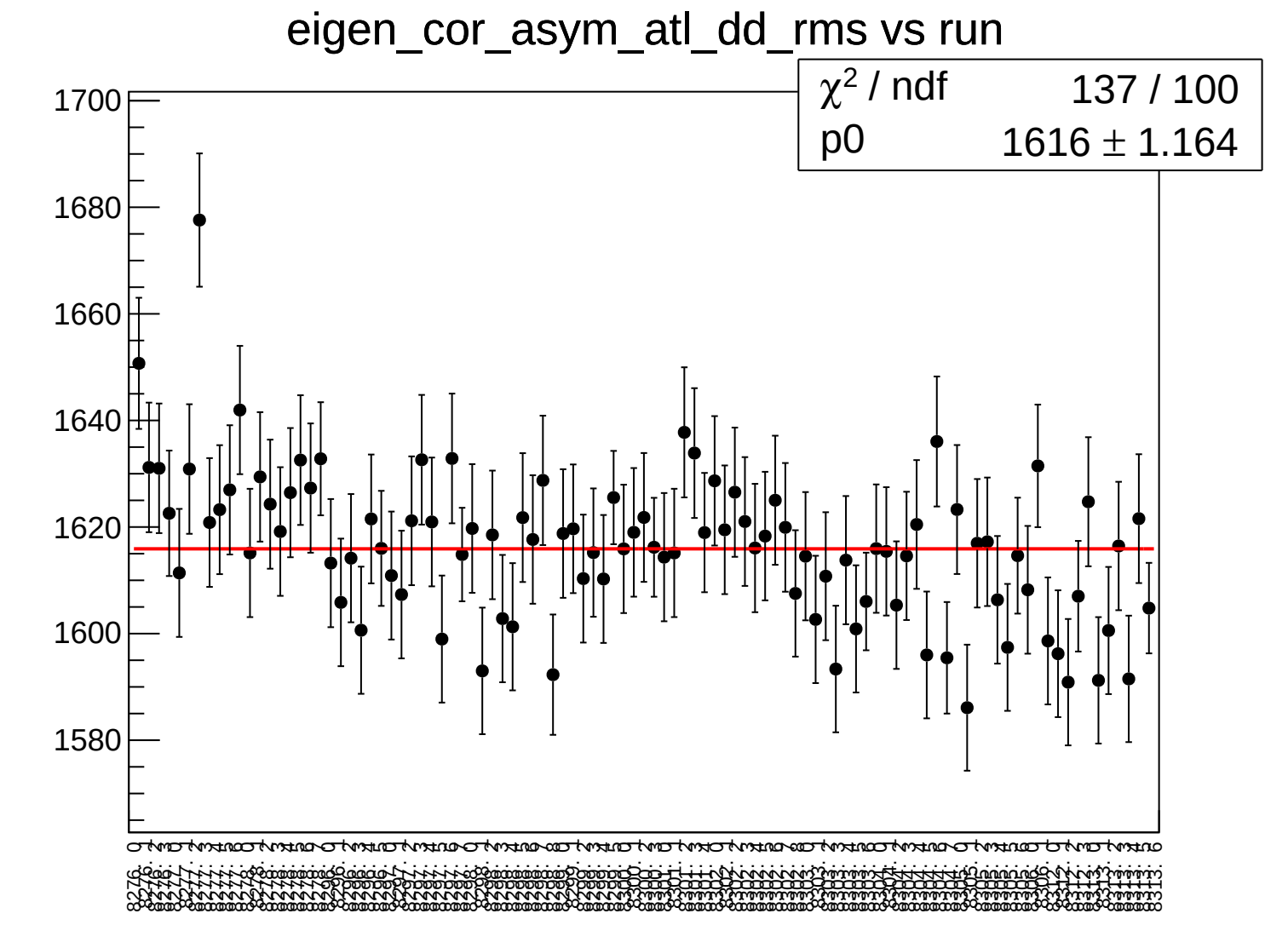

cor_asym_atl_dd_rms vs run
χ² / ndf 137 / 100
p0 1616 ± 1.164
1700
1680
1660
1640
1620
1600
1580

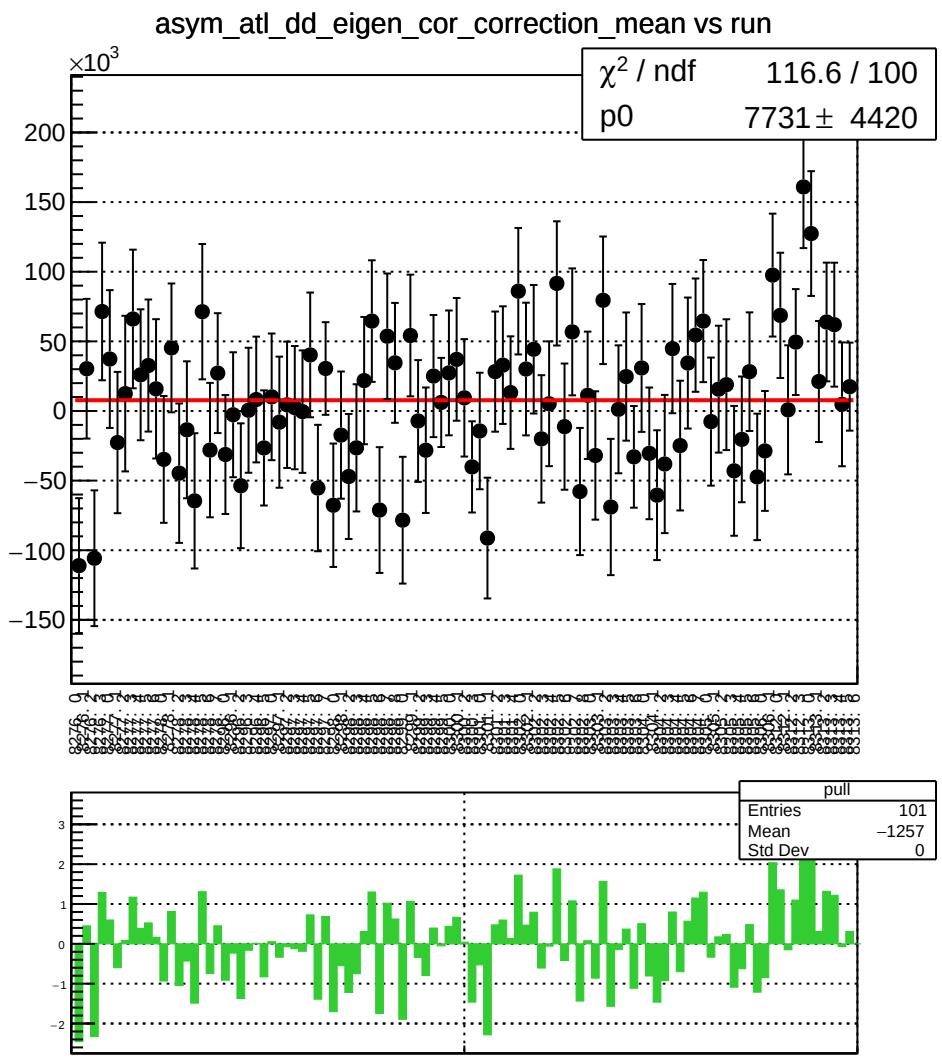

asym_atl_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 116.6 / 100
p0 7731 ± 4420
200
150
100
50
0
−50
−100
−150
pull
Entries 101
Mean −1257
Std Dev 0
3
2
1
0
−1
−2

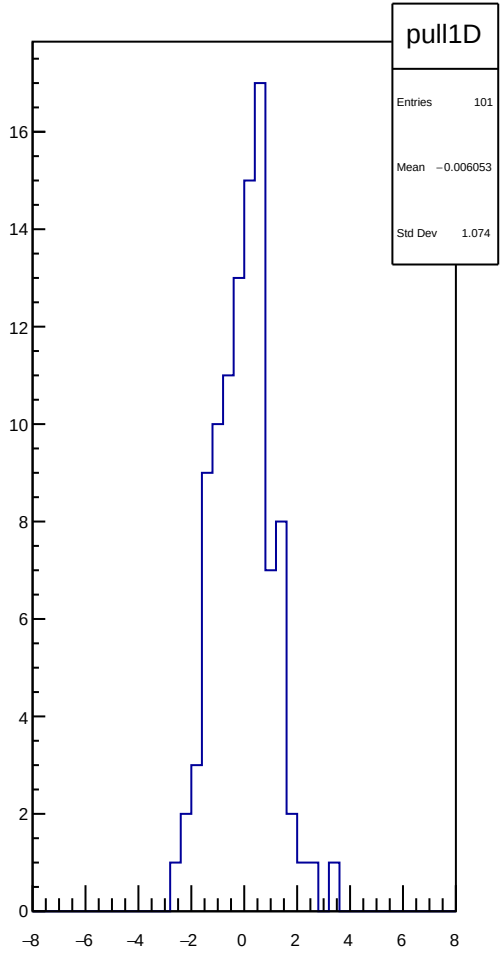

pull1D
Entries 101
Mean −0.006053
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

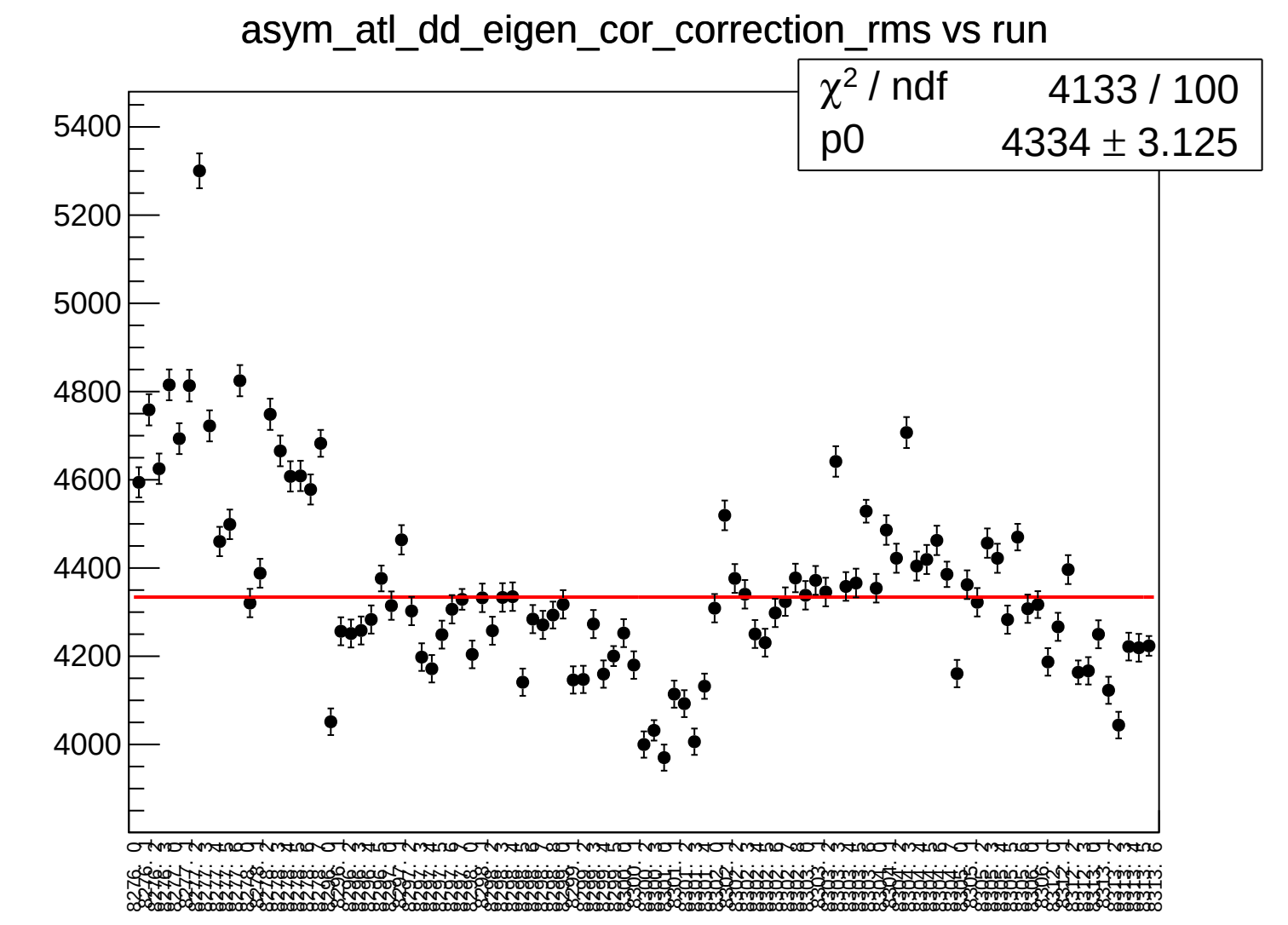

asym_atl_dd_cor_correction_rms vs run
χ^2 / ndf 4133 / 100
p0 4334 ± 3.125
5400
5200
5000
4800
4600
4400
4200
4000

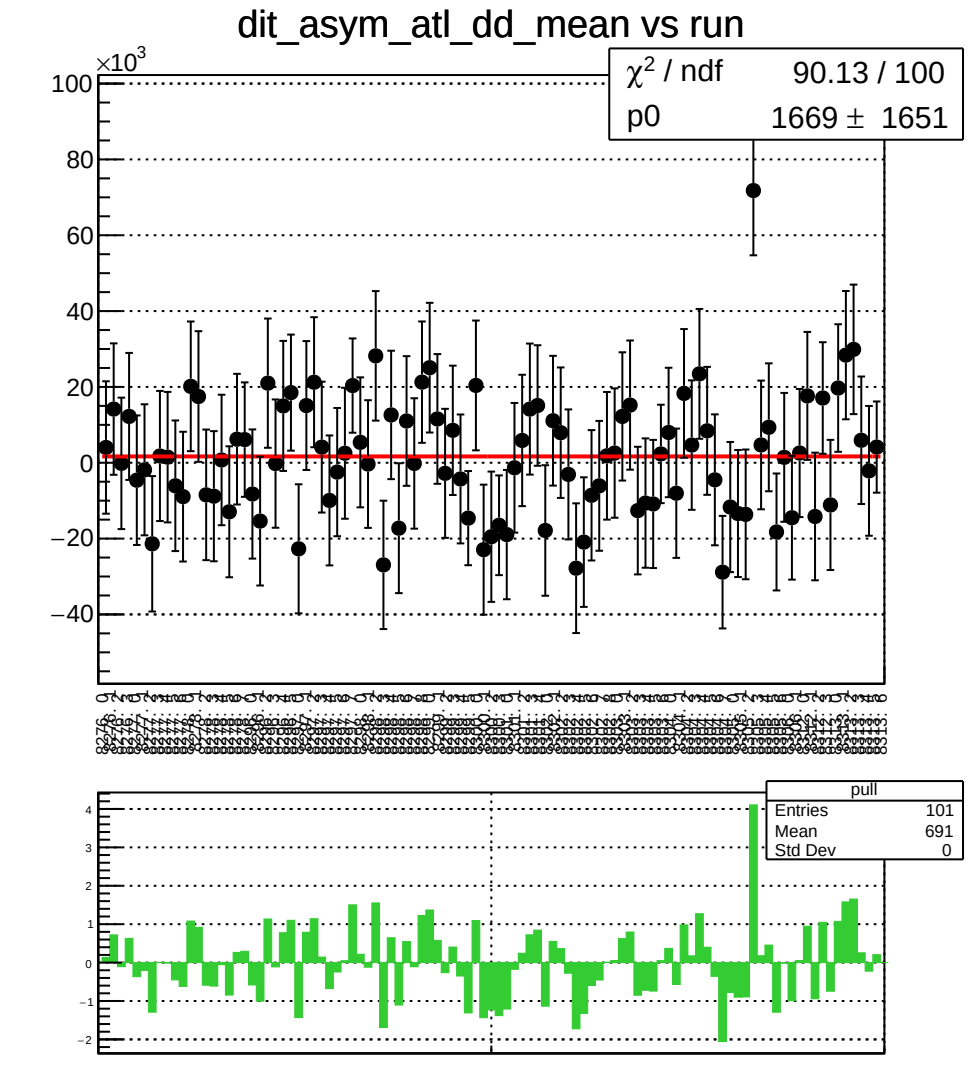

eigen_cor_asym_atl_dd_mean vs run
×10^3
χ^2 / ndf 90.84 / 100
p0 1430 ± 1646
pull
Entries 101
Mean 654.2
Std Dev 0
pull1D
Entries 101
Mean 0.001475
Std Dev 0.9484

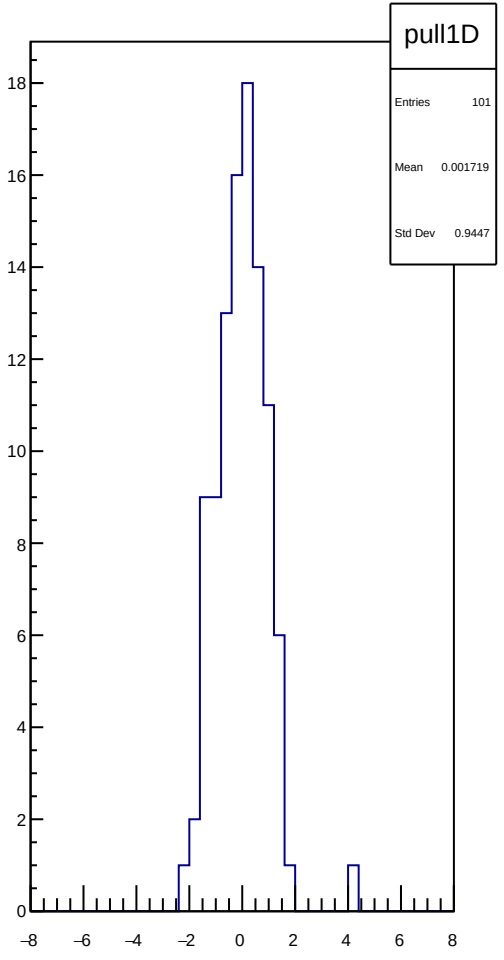

eigen_cor_asym_atl_dd_rms vs run
χ² / ndf 137 / 100
p0 1616 ± 1.164
1700
1680
1660
1640
1620
1600
1580

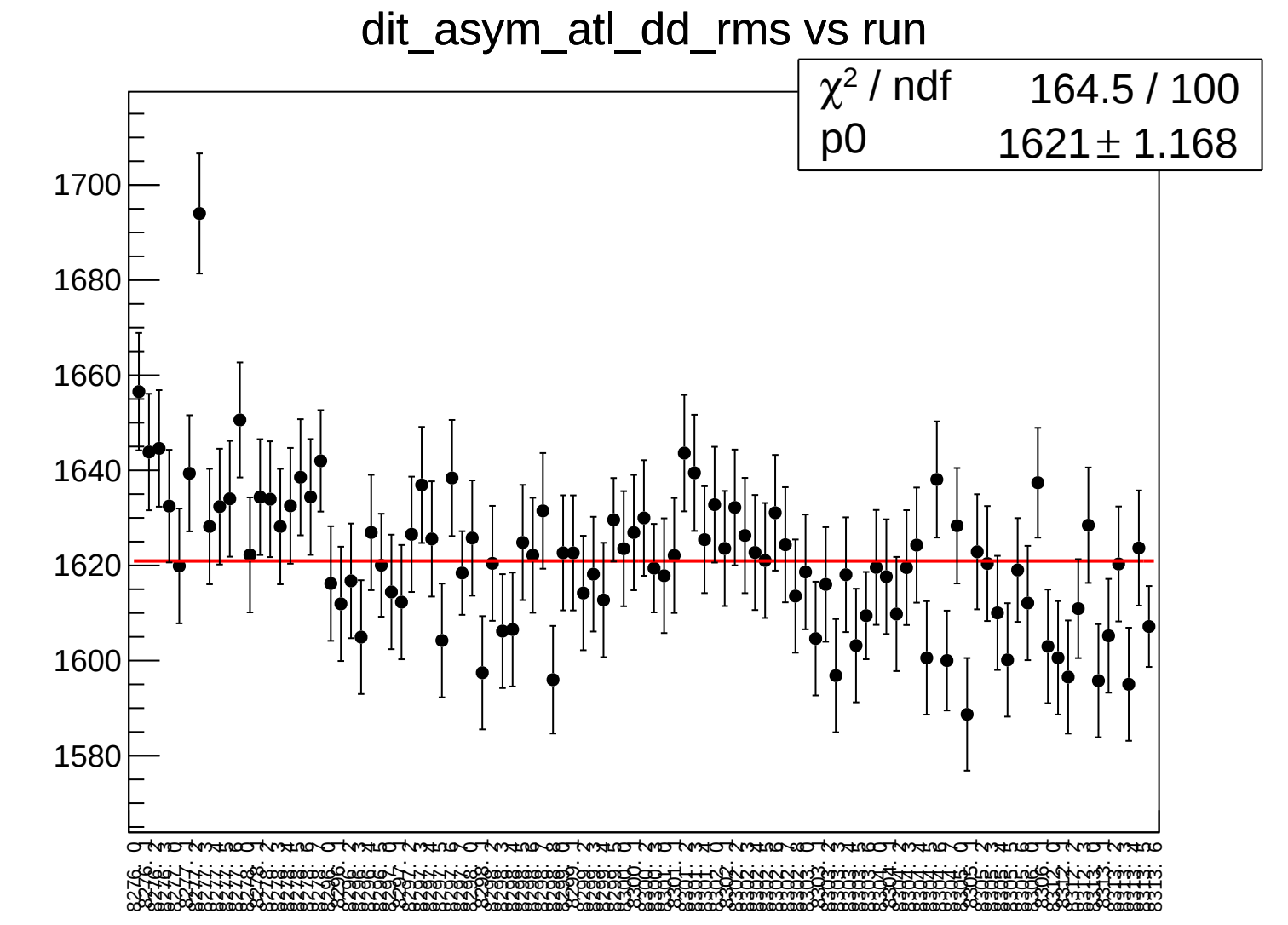

asym_atl_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 116.6 / 100
p0 7731 ± 4420
200
150
100
50
0
−50
−100
−150
pull
Entries 101
Mean −1257
Std Dev 0
3
2
1
0
−1
−2

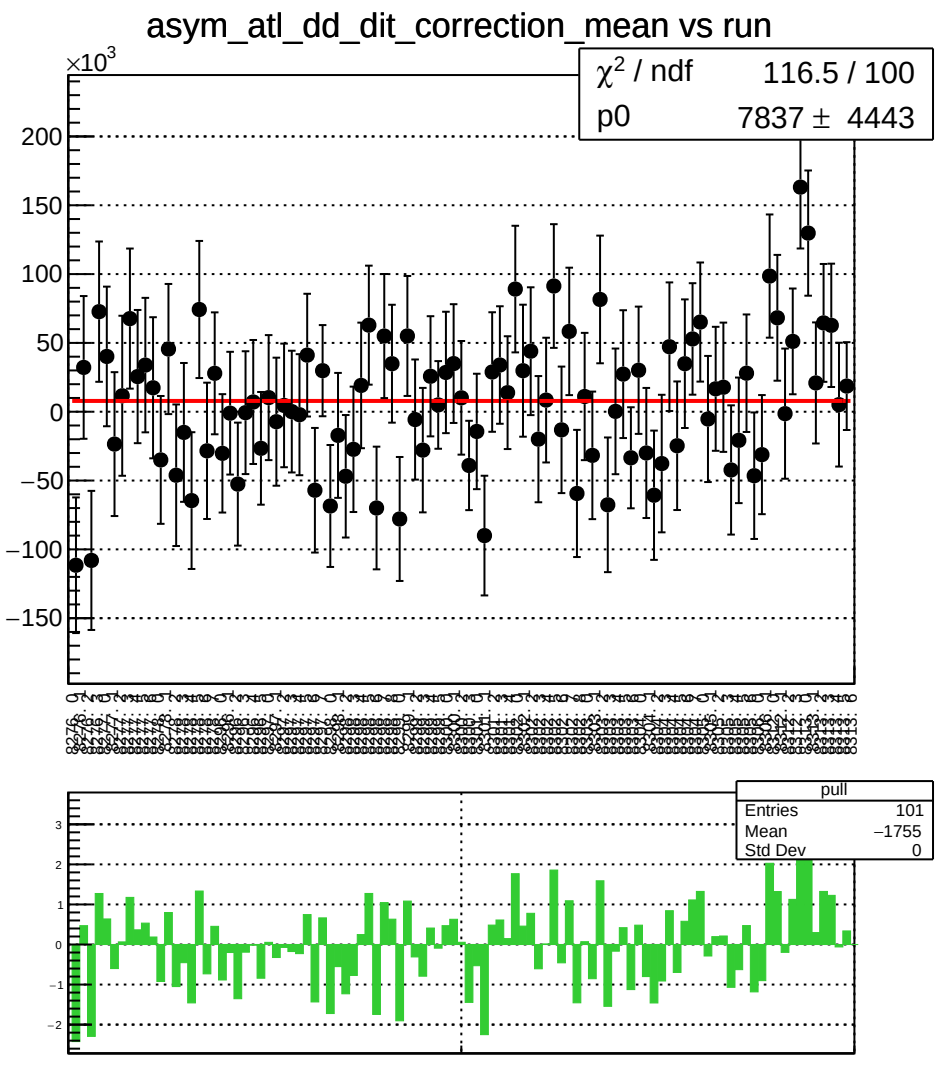

pull1D
Entries 101
Mean −0.006053
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

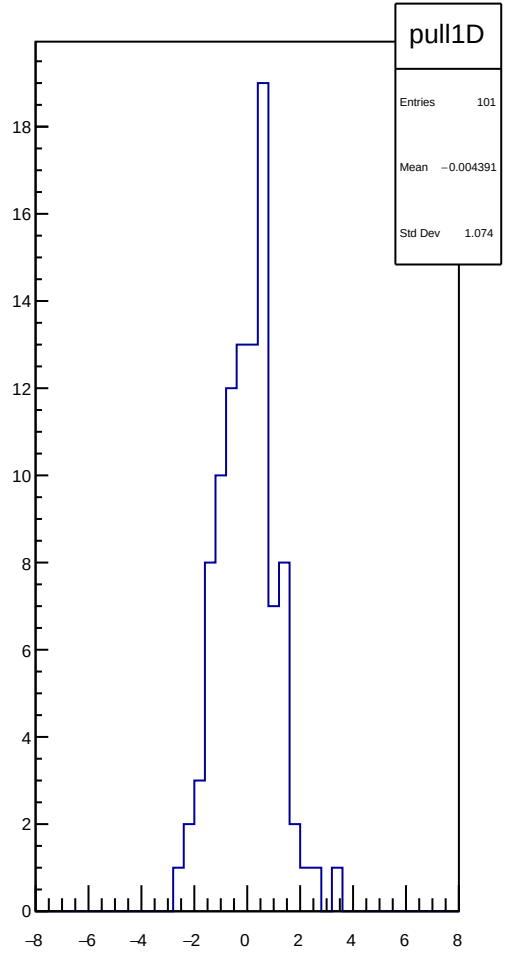

asym_atl_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 4133 / 100
p0 4334 ± 3.125
5400
5200
5000
4800
4600
4400
4200
4000

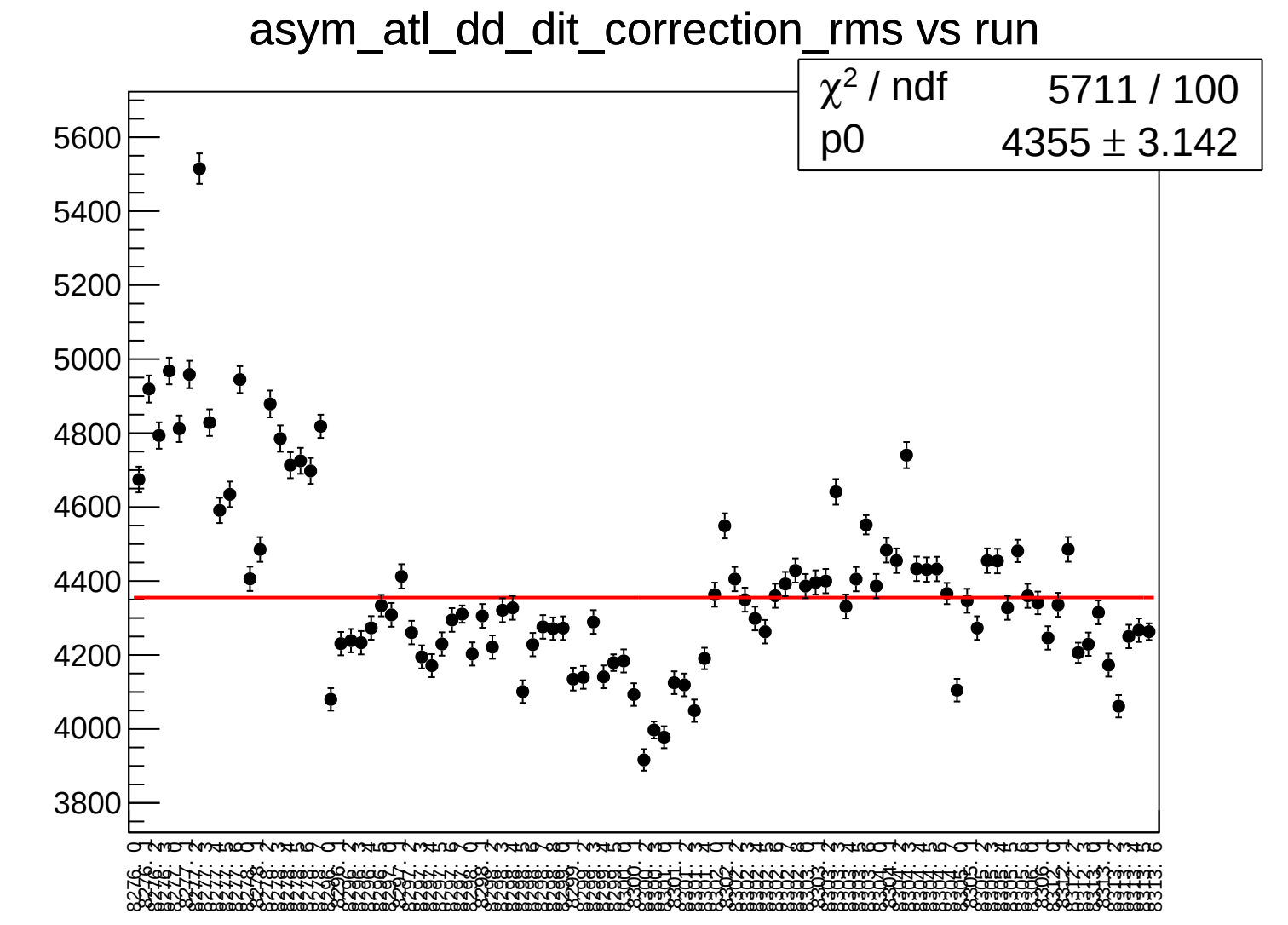

dit_asym_atl_dd_mean vs run
×10^3
χ^2 / ndf 90.13 / 100
p0 1669 ± 1651
pull
Entries 101
Mean 691
Std Dev 0

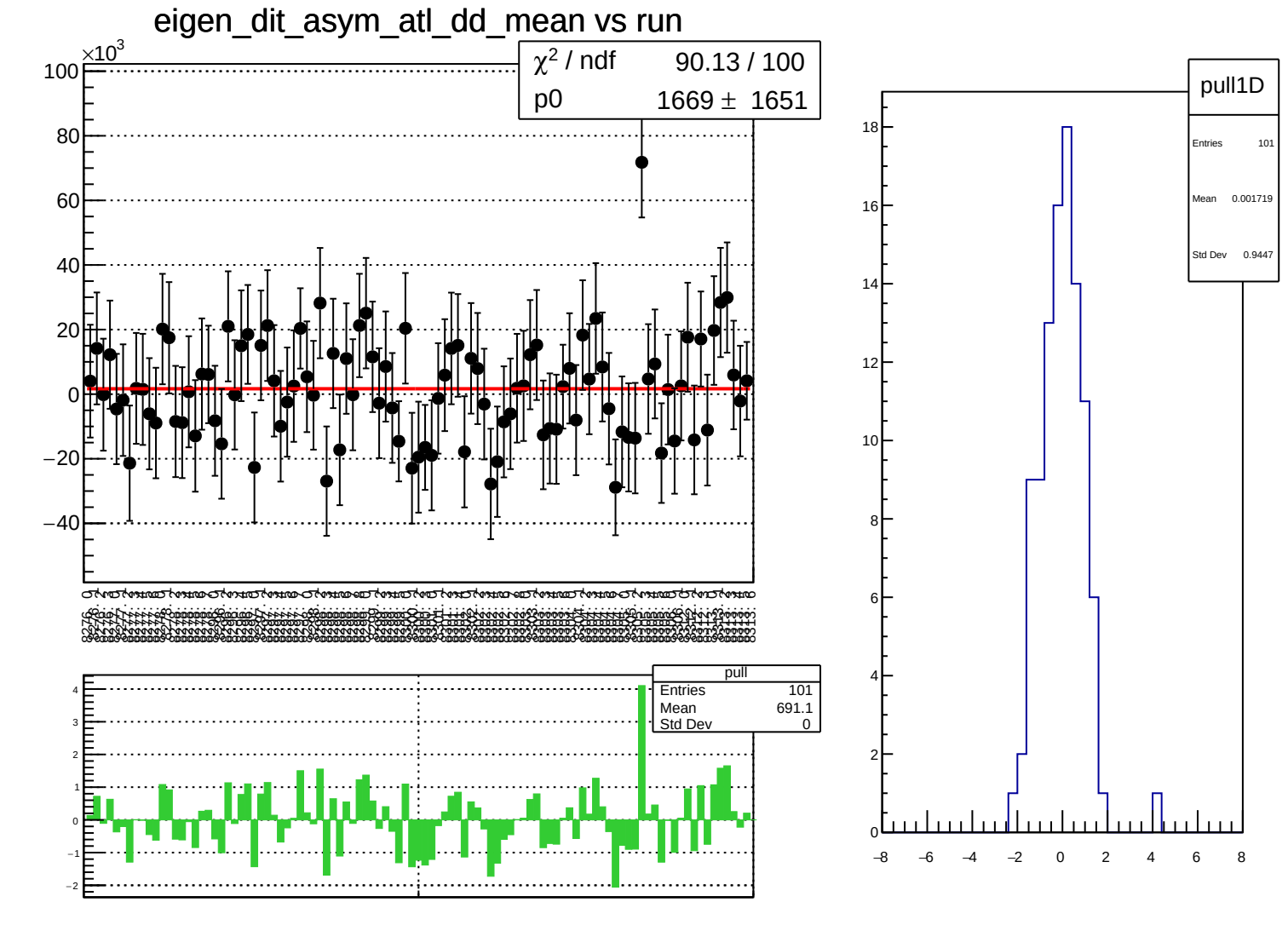

pull1D
Entries 101
Mean 0.001719
Std Dev 0.9447

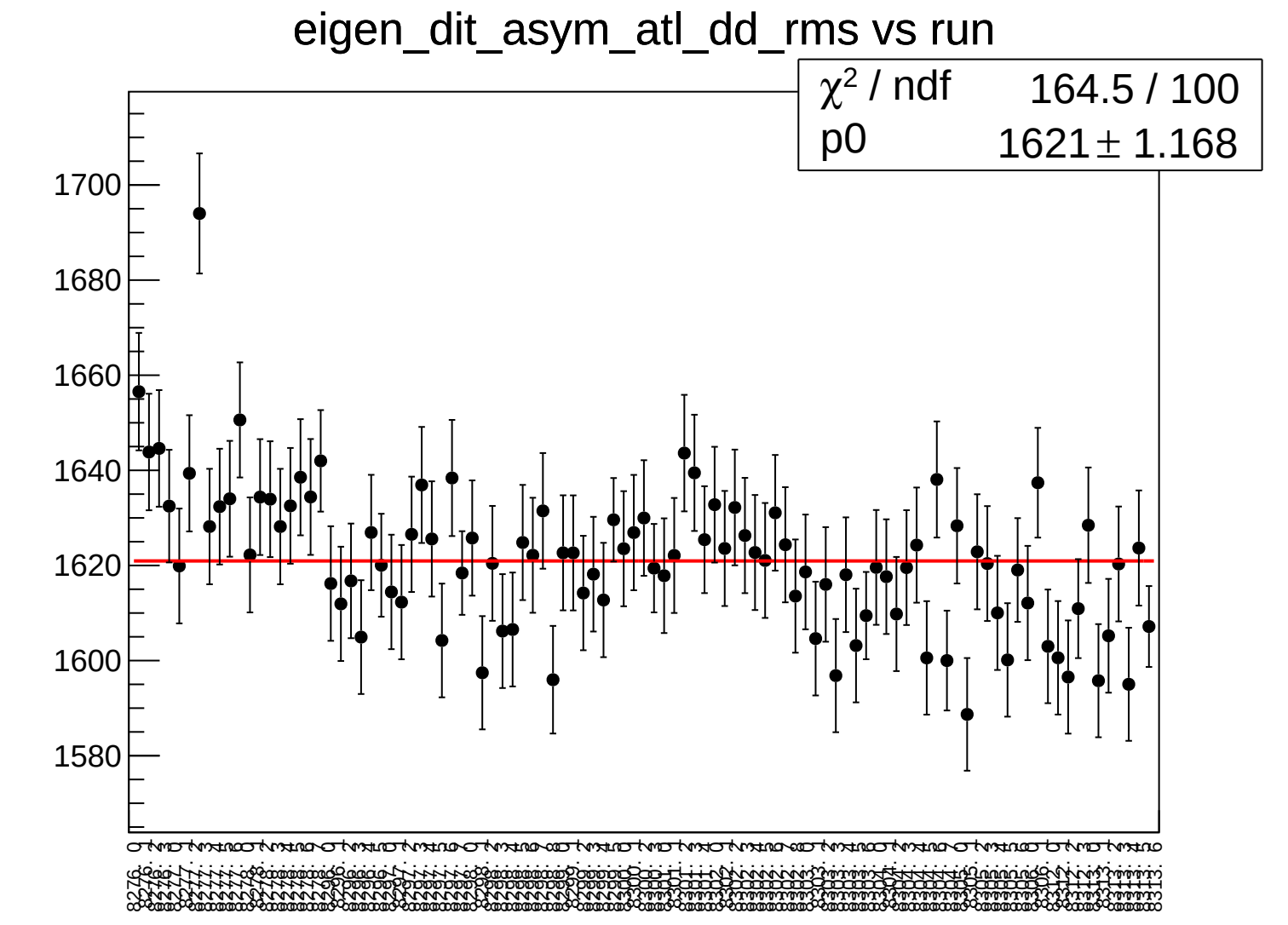

dit_asym_atl_dd_rms vs run
χ² / ndf 164.5 / 100
p0 1621 ± 1.168
1700
1680
1660
1640
1620
1600
1580

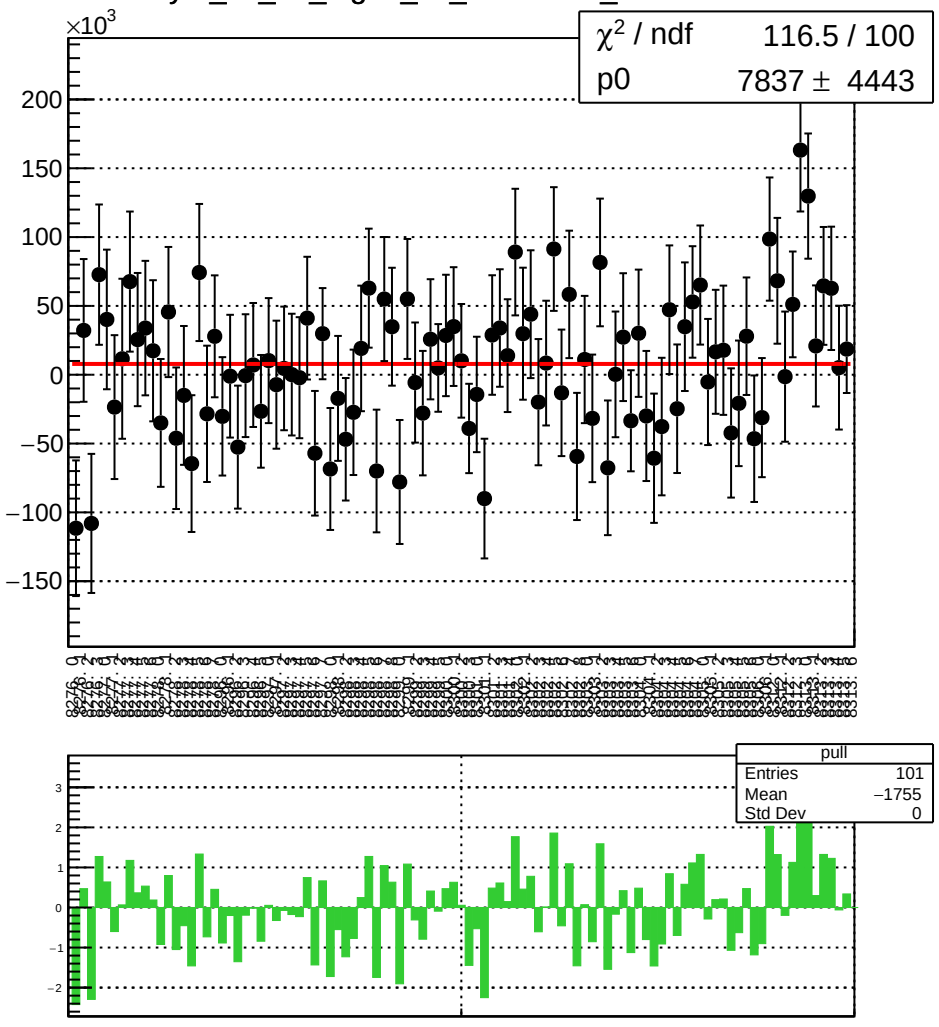

asym_atl_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 116.5 / 100
p0 7837 ± 4443
200
150
100
50
0
−50
−100
−150
pull
Entries 101
Mean −1755
Std Dev 0
3
2
1
0
−1
−2

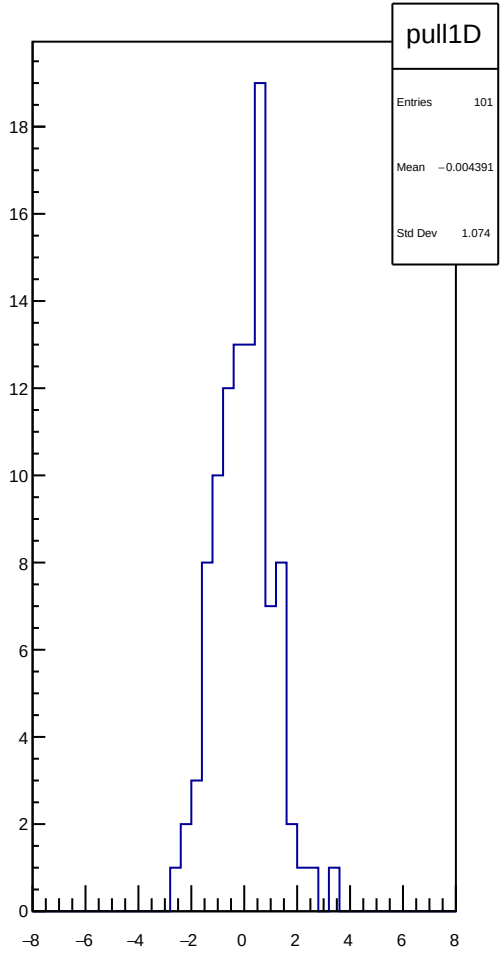

pull1D
Entries 101
Mean −0.004391
Std Dev 1.074
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

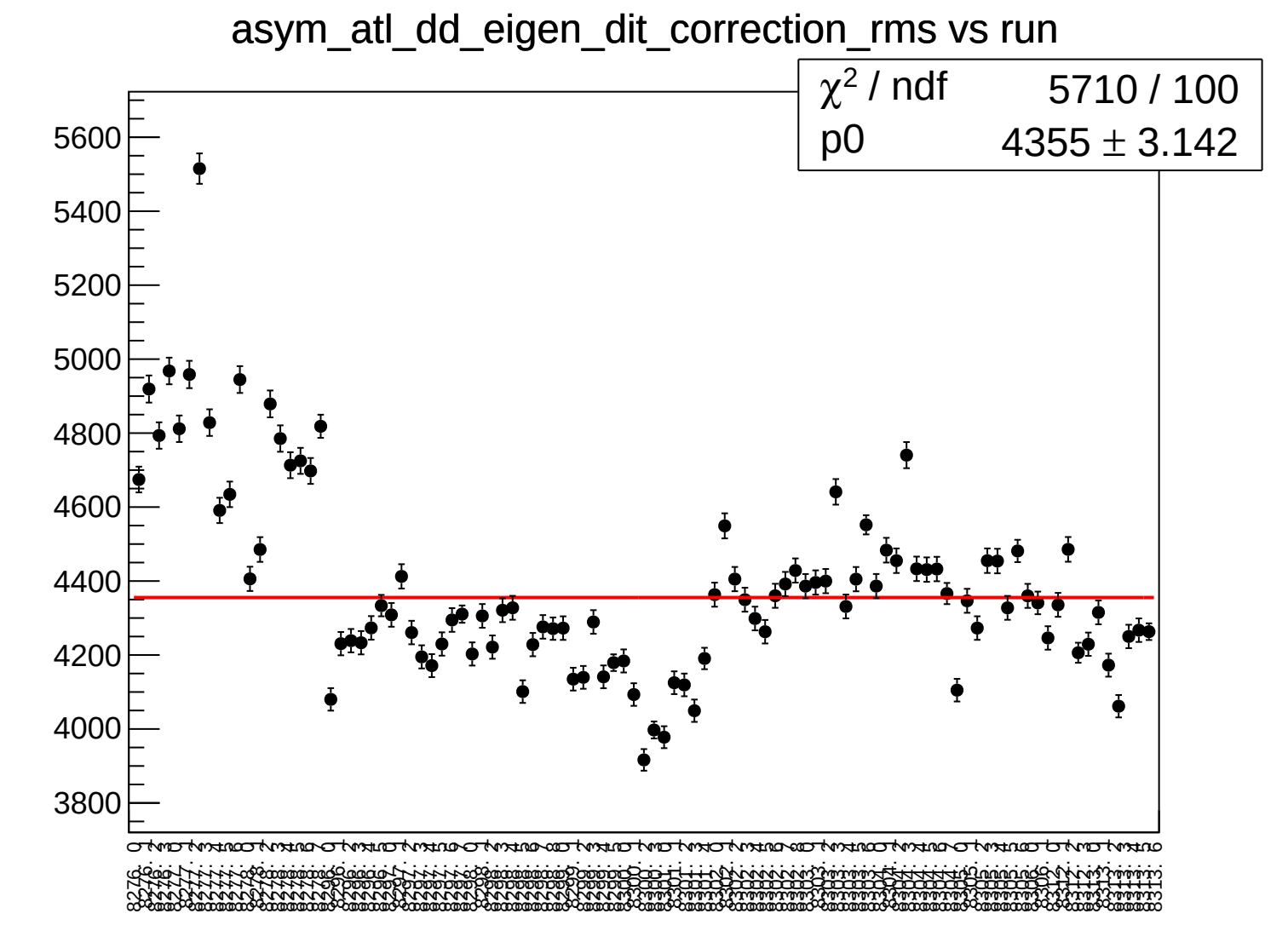

asym_atl_dd_dit_correction_rms vs run
χ² / ndf 5711 / 100
p0 4355 ± 3.142
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800

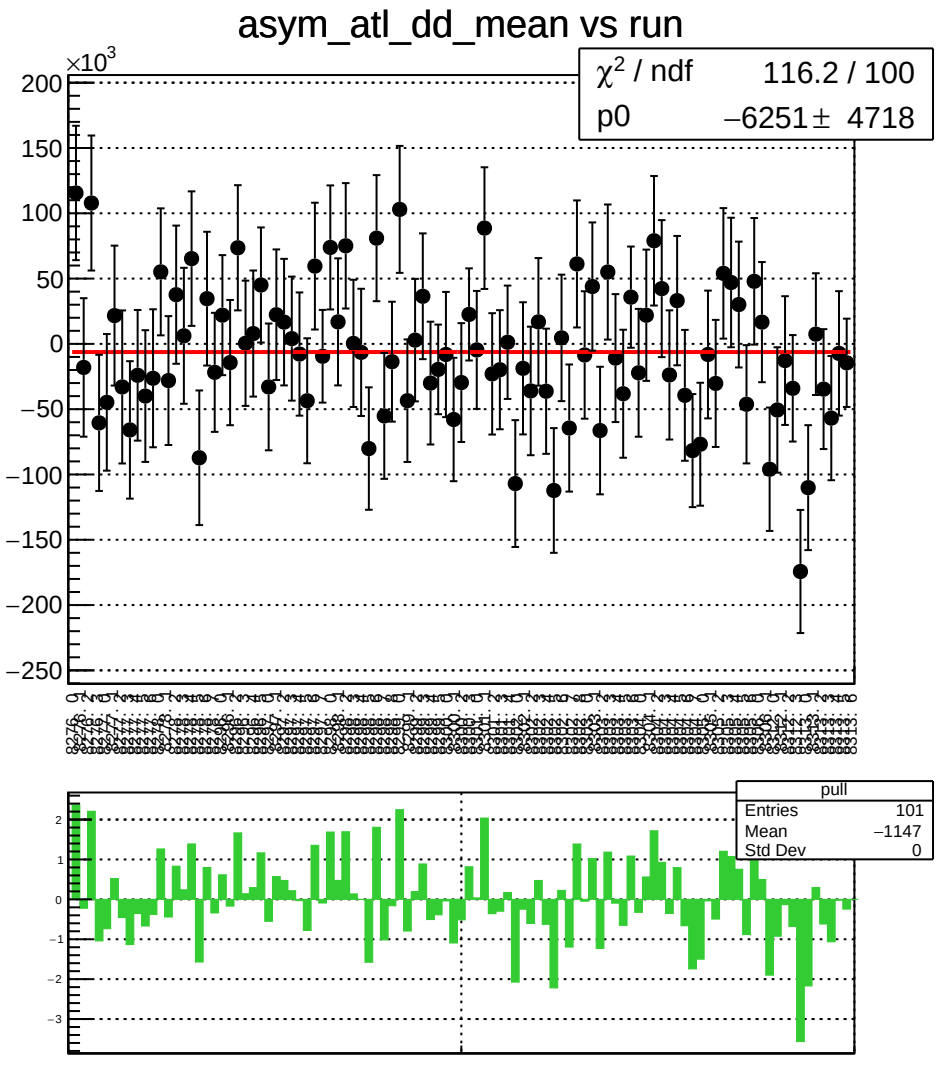

eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 90.13 / 100
p0 1669 ± 1651
×10³
pull
Entries 101
Mean 691.1
Std Dev 0
pull1D
Entries 101
Mean 0.001719
Std Dev 0.9447

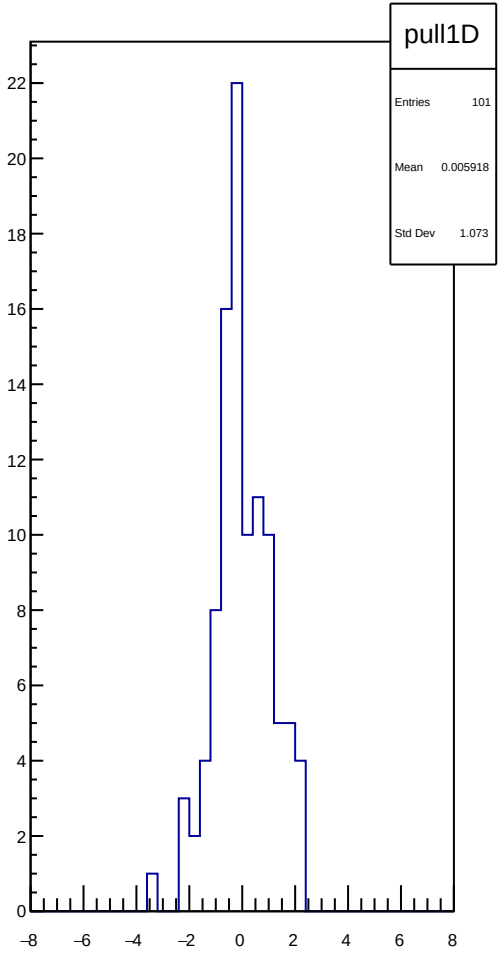

eigen_dit_asym_atl_dd_rms vs run
χ² / ndf 164.5 / 100
p0 1621 ± 1.168
1700
1680
1660
1640
1620
1600
1580

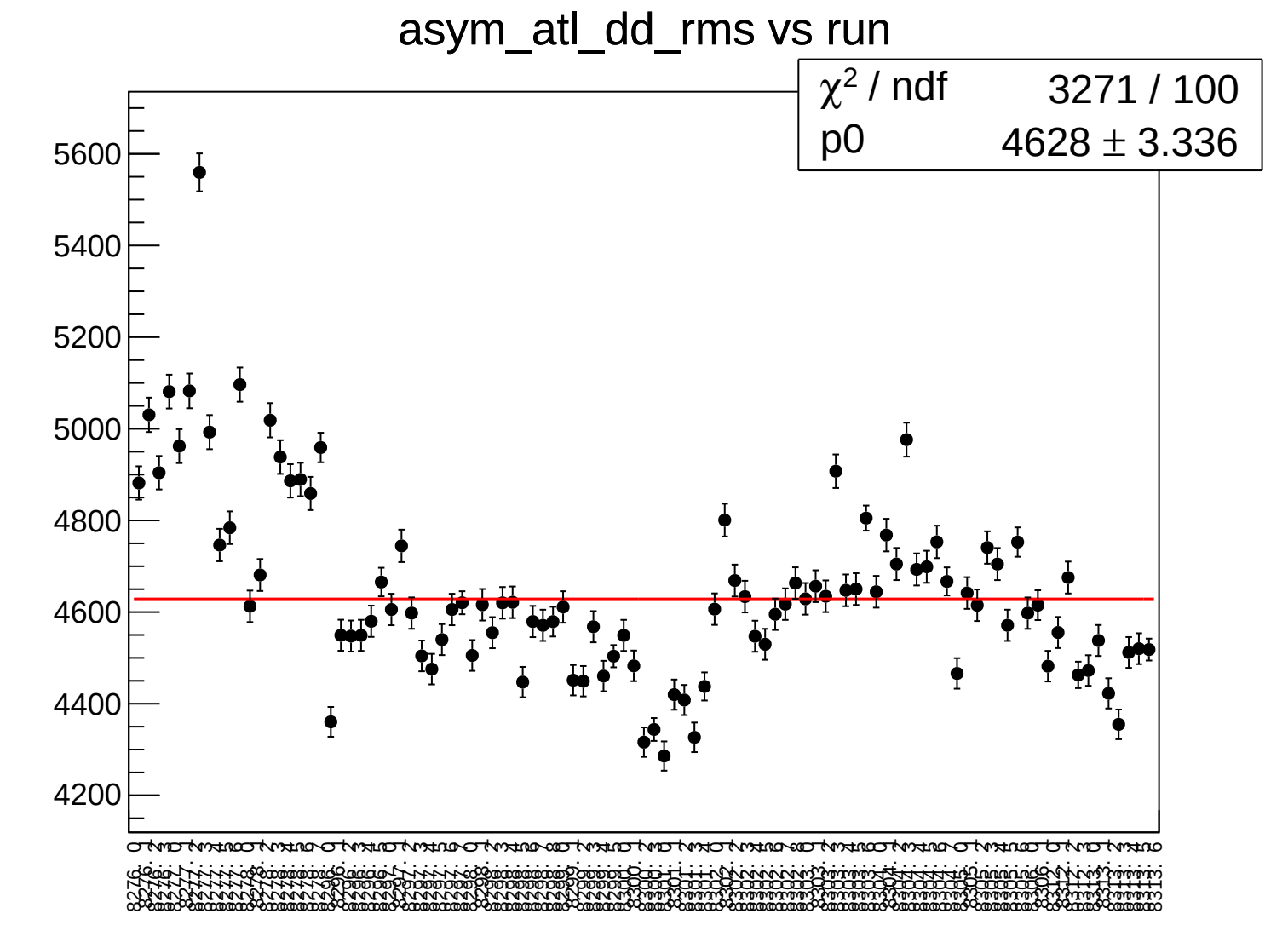

asym_atl_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 116.5 / 100
p0 7837 ± 4443
200
150
100
50
0
−50
−100
−150
pull
Entries 101
Mean −1755
Std Dev 0
3
2
1
0
−1
−2

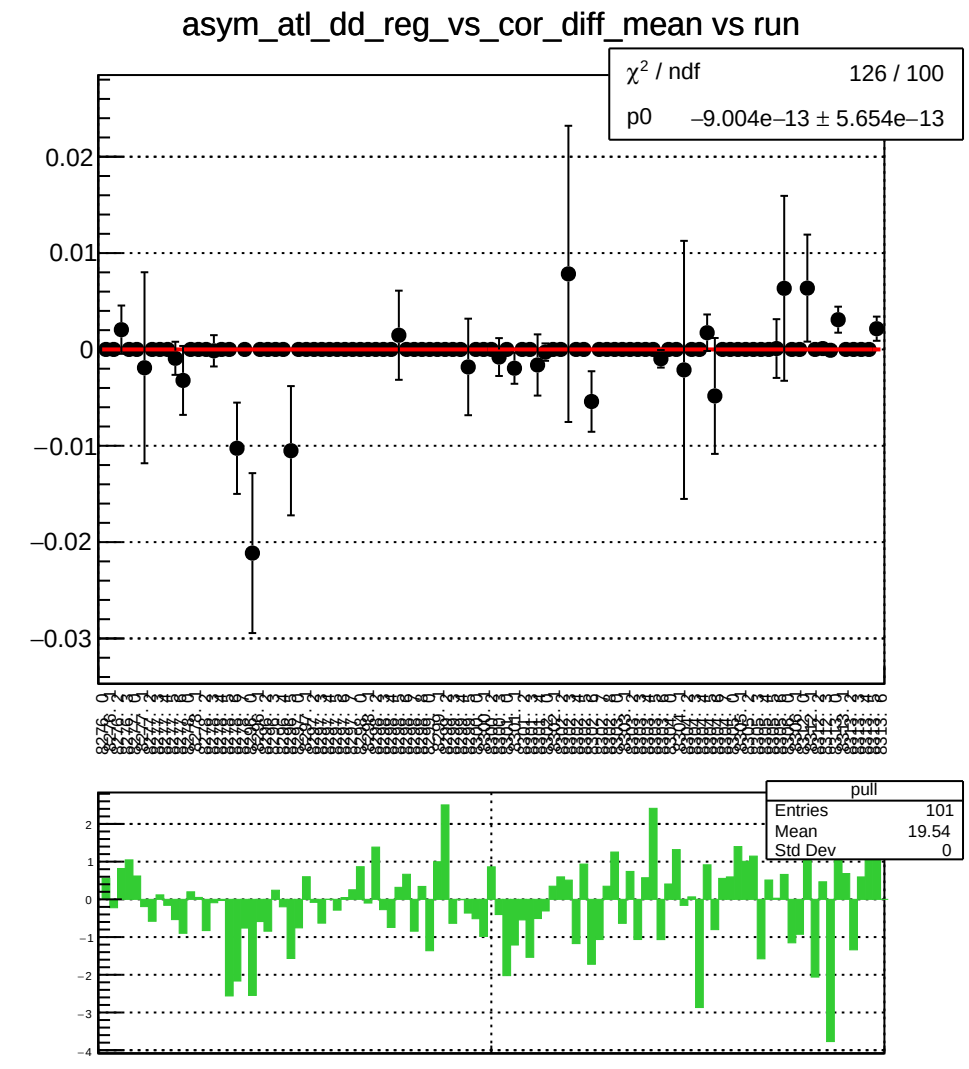

pull1D
Entries 101
Mean −0.004391
Std Dev 1.074
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

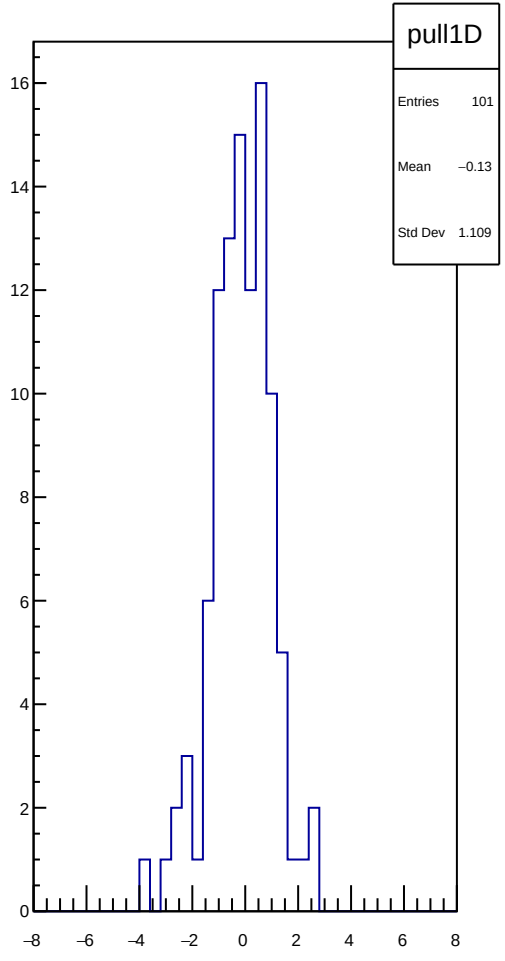

asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 5710 / 100
p0 4355 ± 3.142
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800

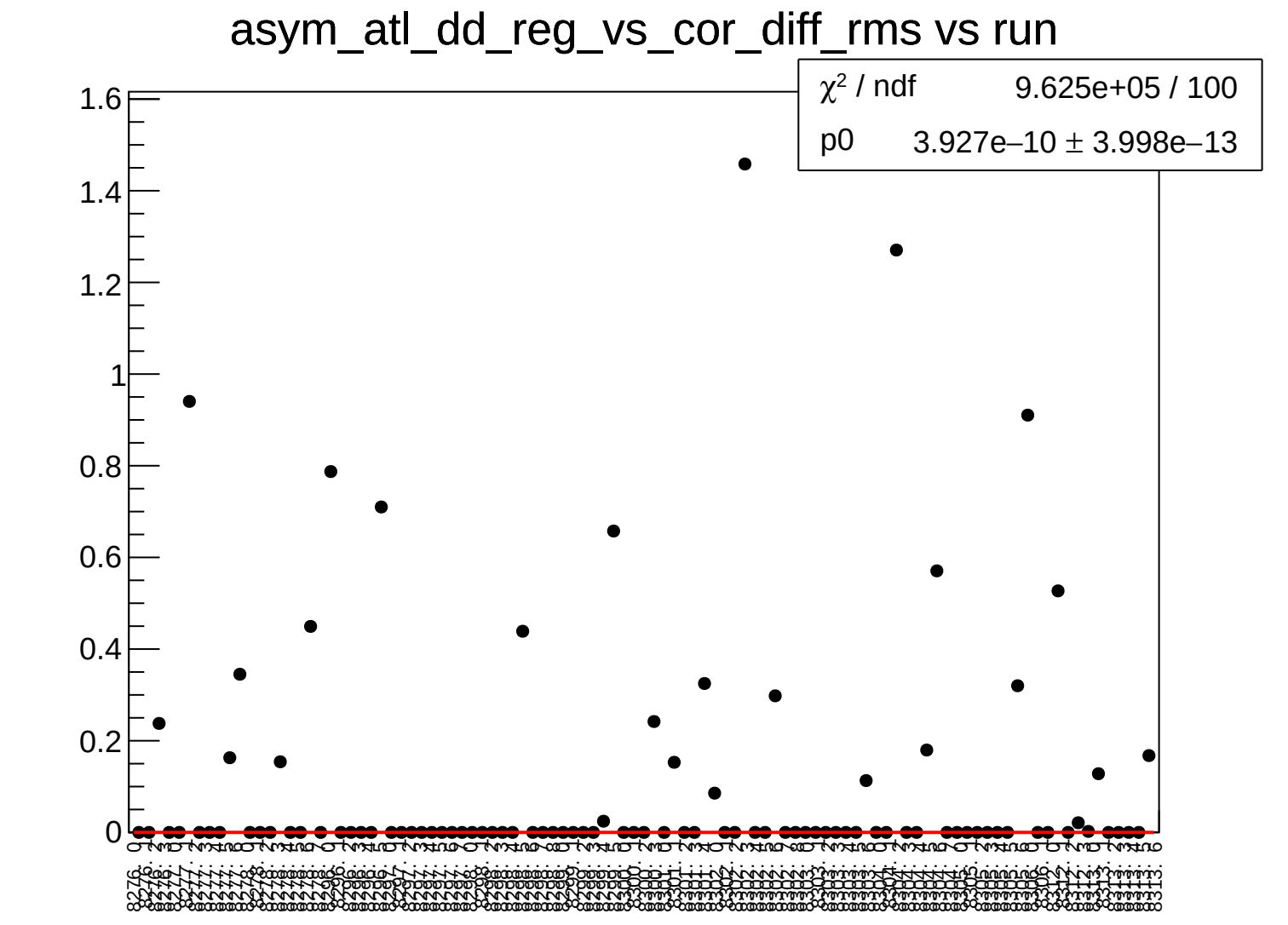

asym_atl_dd_mean vs run
χ² / ndf 116.2 / 100
p0 −6251 ± 4718
×10³
pull
Entries 101
Mean −1147
Std Dev 0

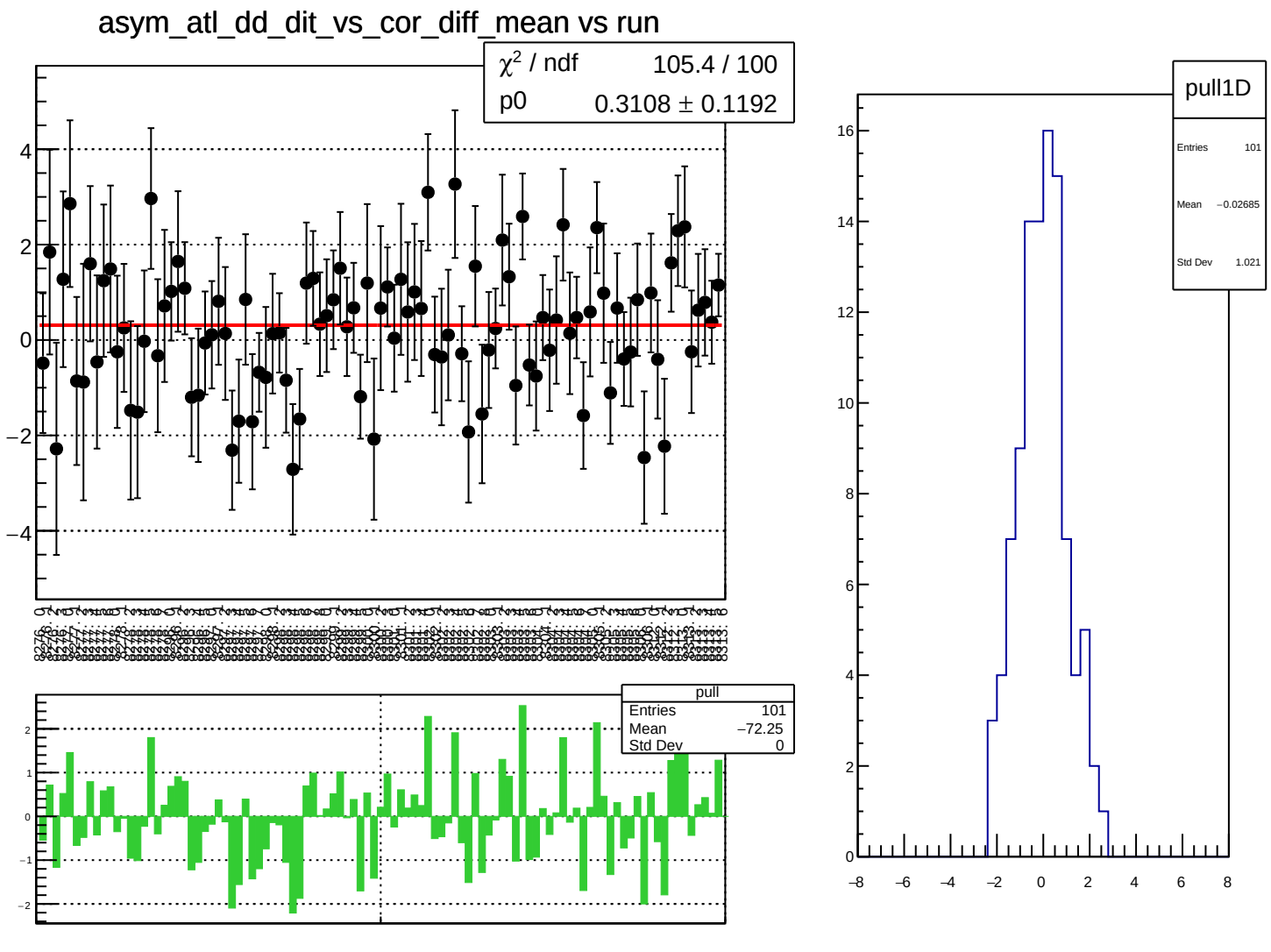

pull1D
Entries 101
Mean 0.005918
Std Dev 1.073

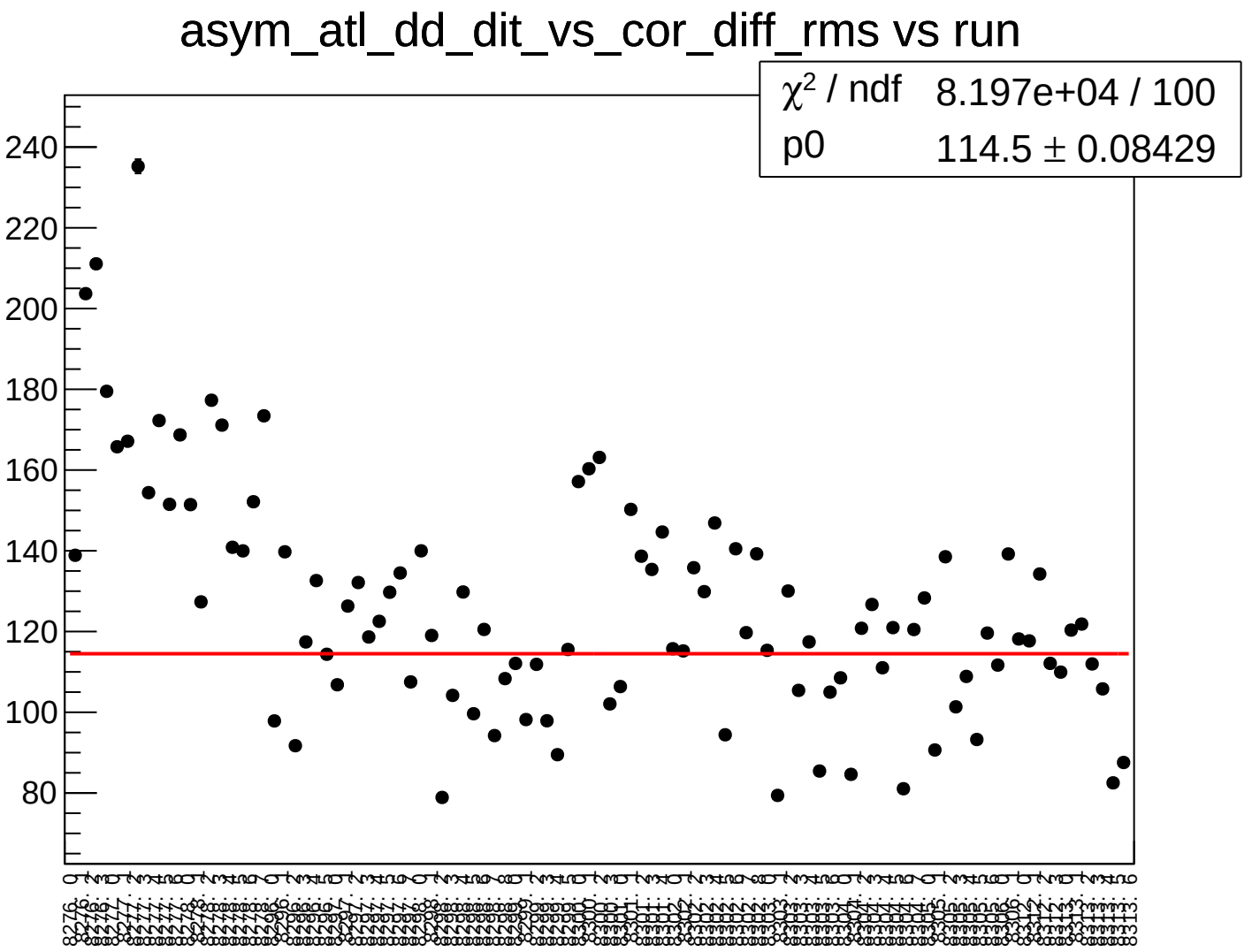

asym_atl_dd_rms vs run
χ^2 / ndf 3271 / 100
p0 4628 ± 3.336
5600
5400
5200
5000
4800
4600
4400
4200

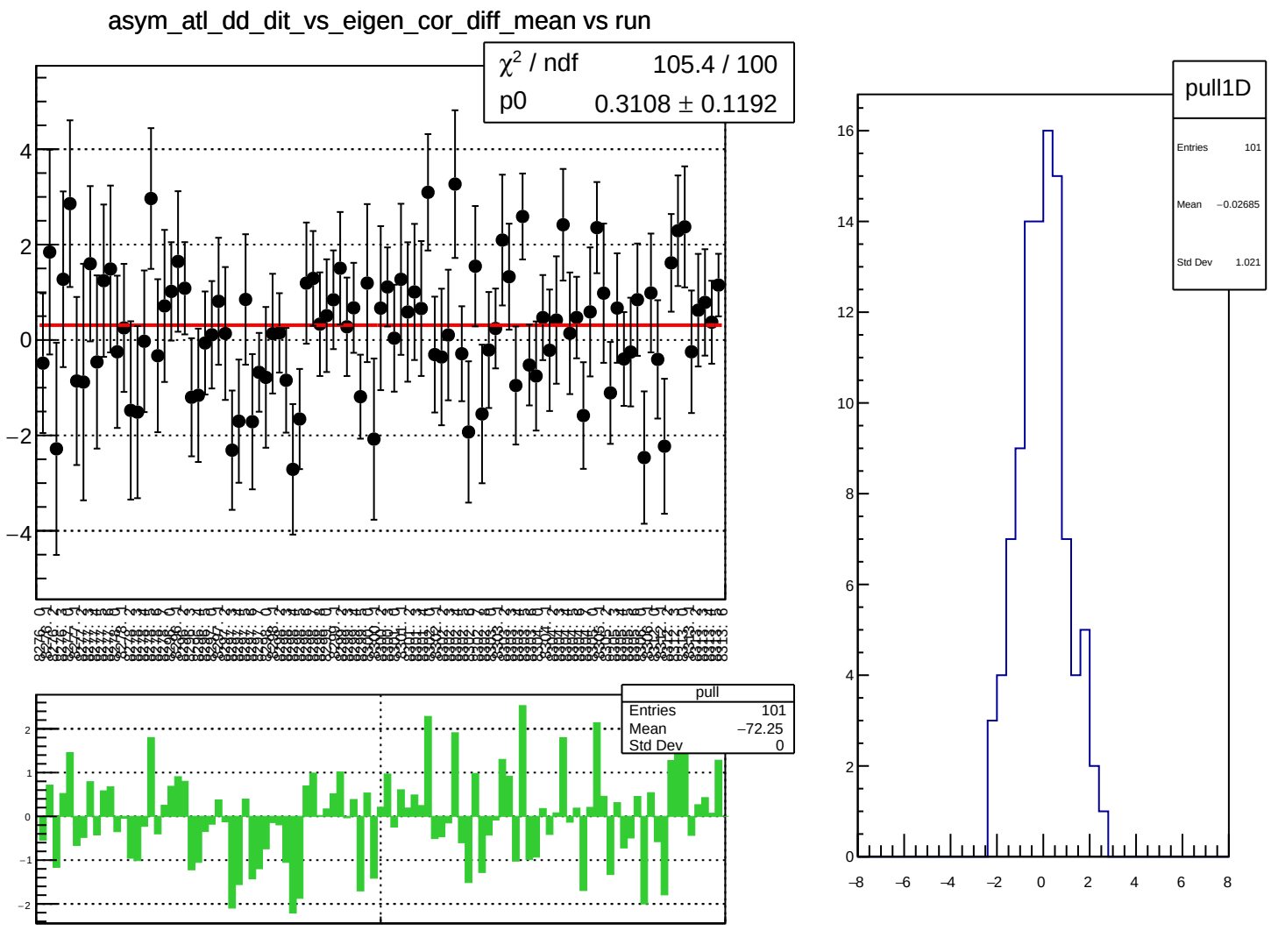

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 126 / 100
p0 −9.004e−13 ± 5.654e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 101
Mean 19.54
Std Dev 0
2
1
0
−1
−2
−3
−4

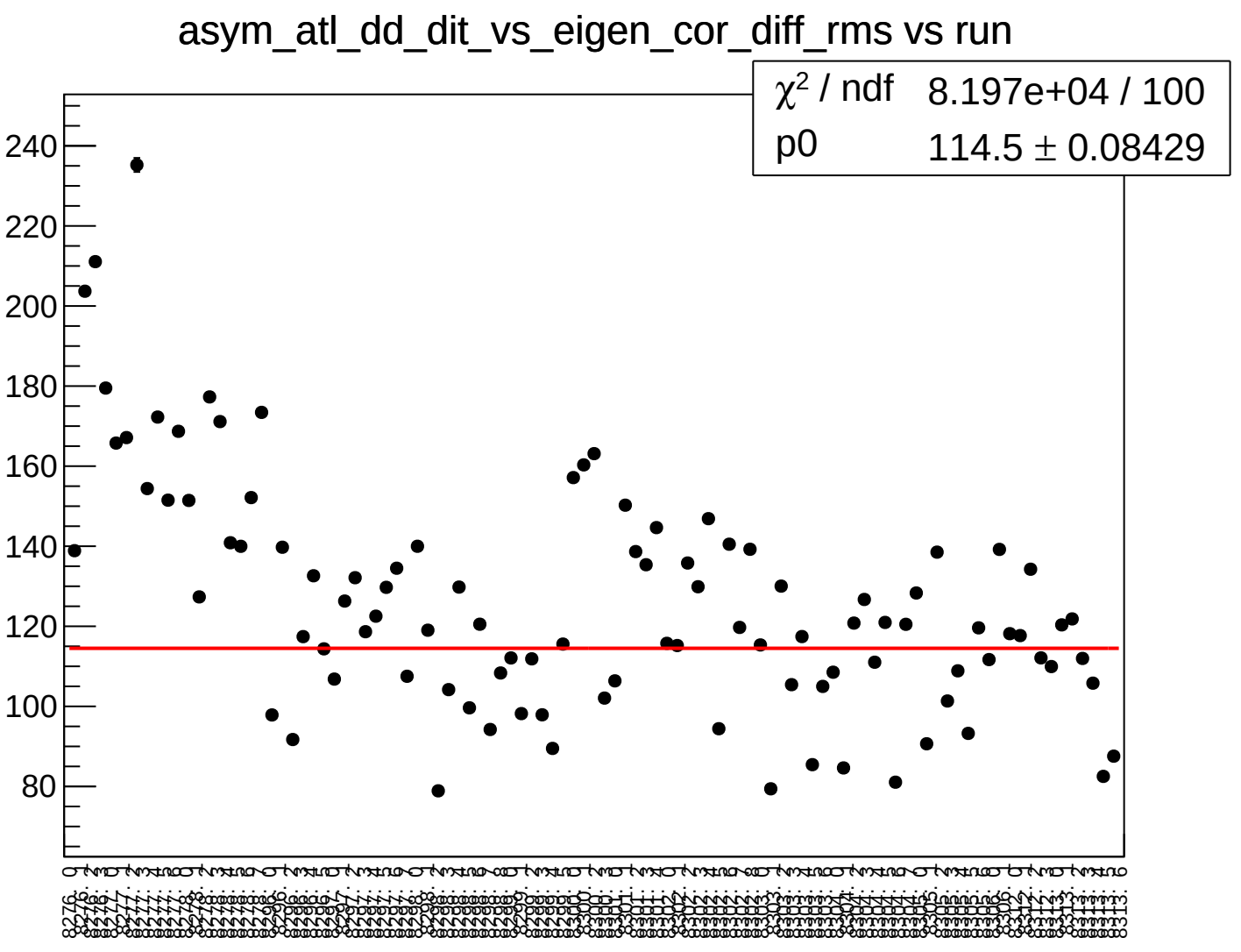

pull1D
Entries 101
Mean −0.13
Std Dev 1.109
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

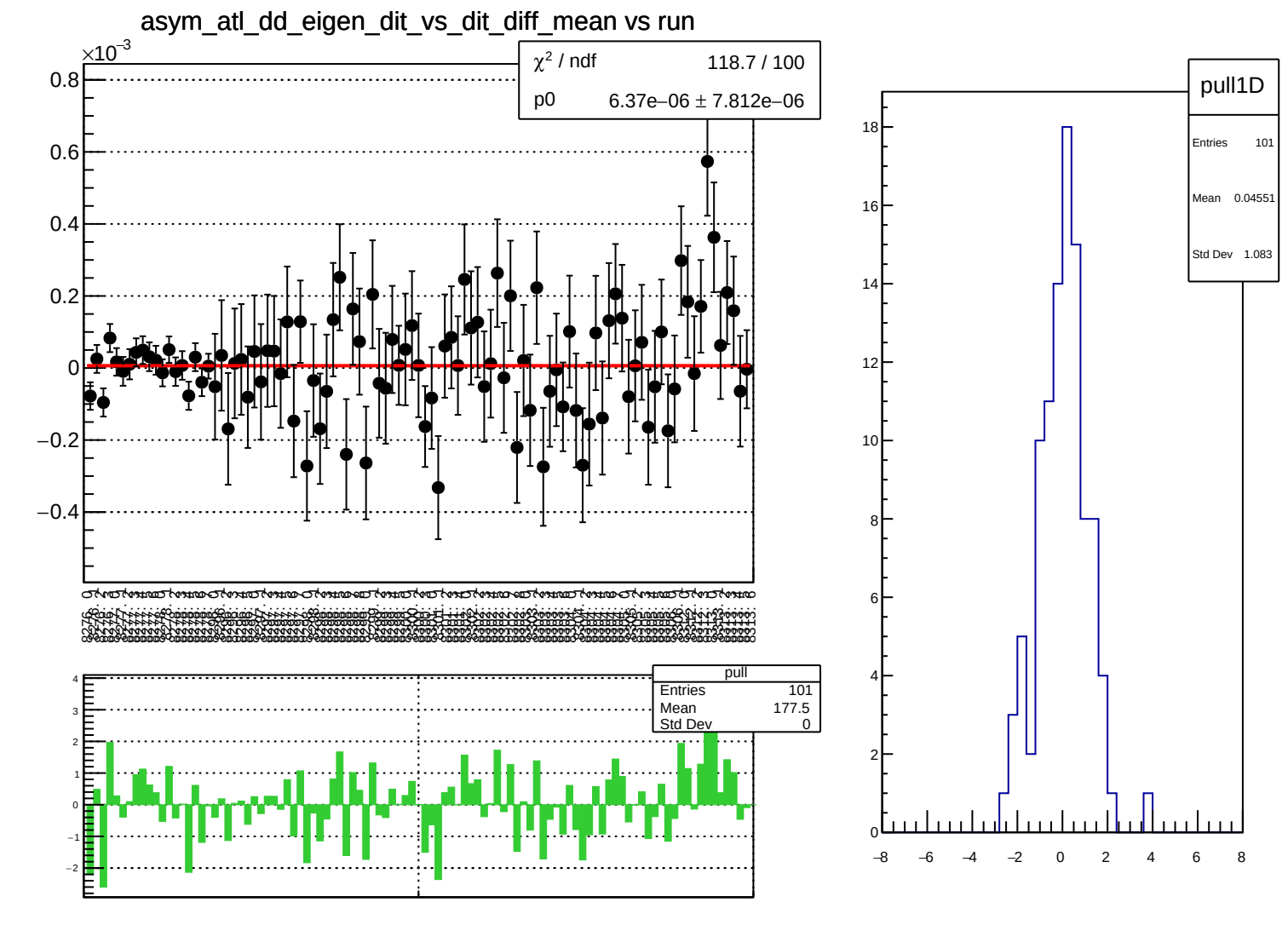

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.625e+05 / 100
p0 3.927e−10 ± 3.998e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

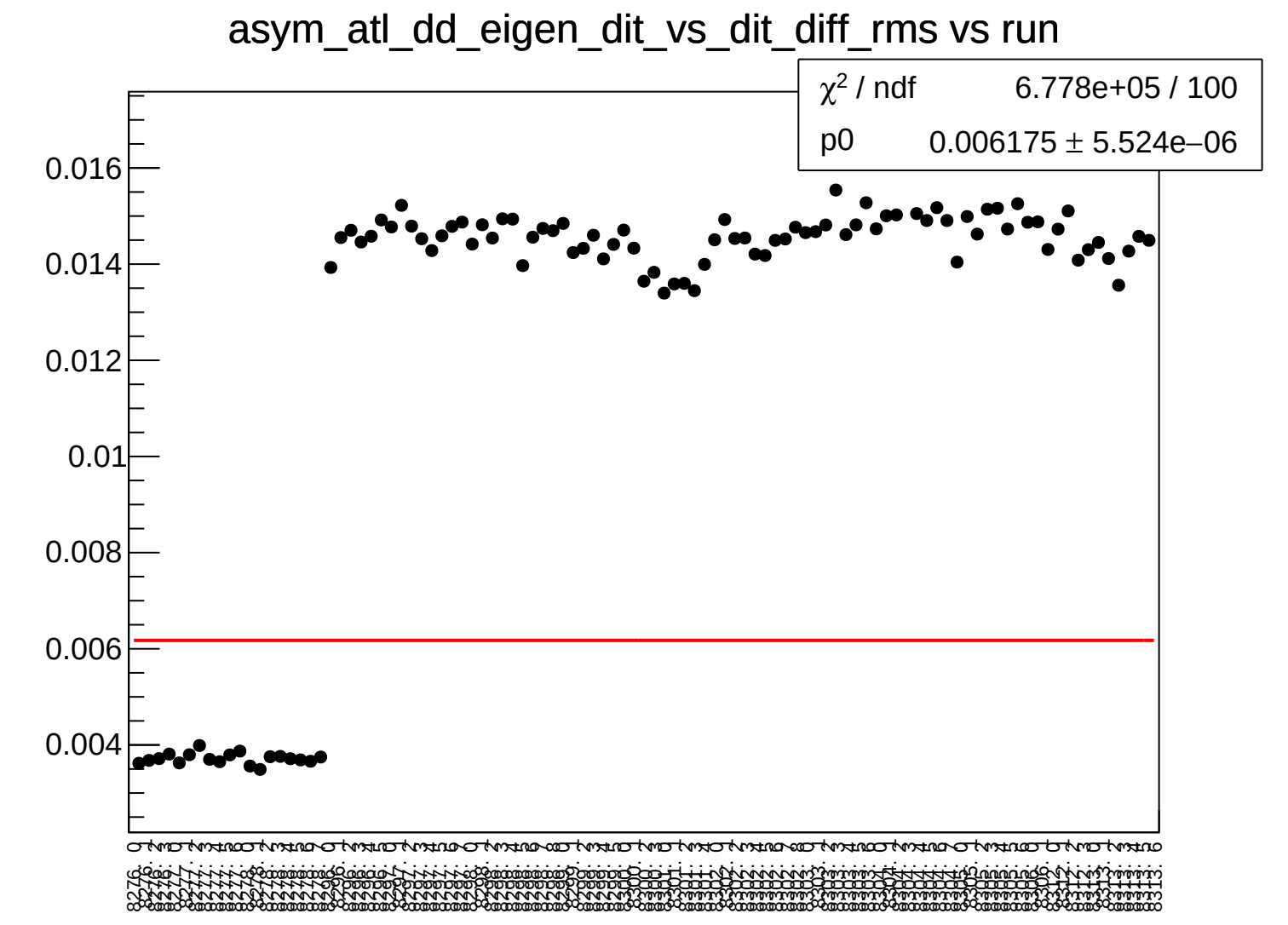

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 105.4 / 100
p0 0.3108 ± 0.1192
pull
Entries 101
Mean −72.25
Std Dev 0
pull1D
Entries 101
Mean −0.02685
Std Dev 1.021

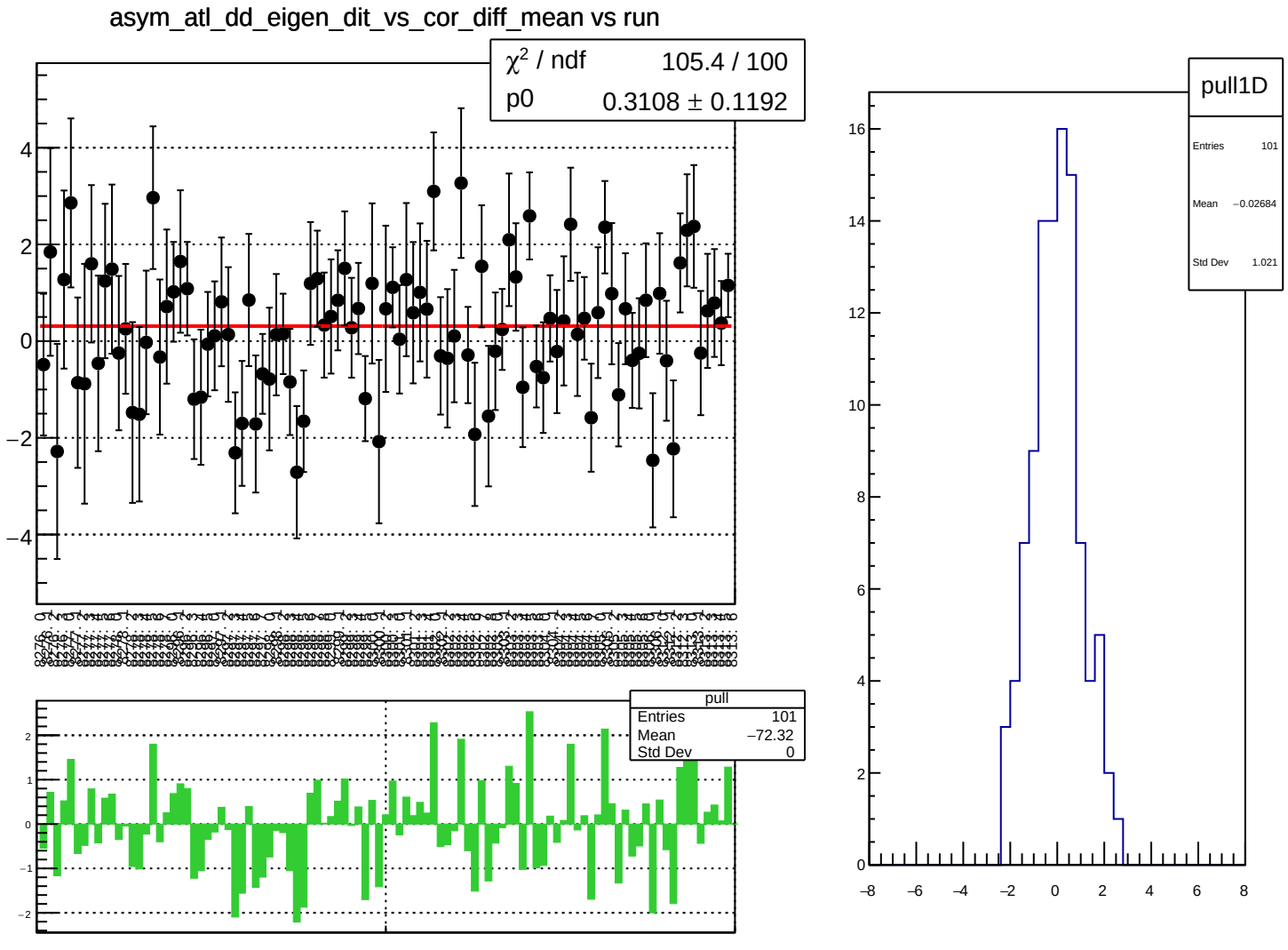

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.197e+04 / 100
p0 114.5 ± 0.08429
240
220
200
180
160
140
120
100
80

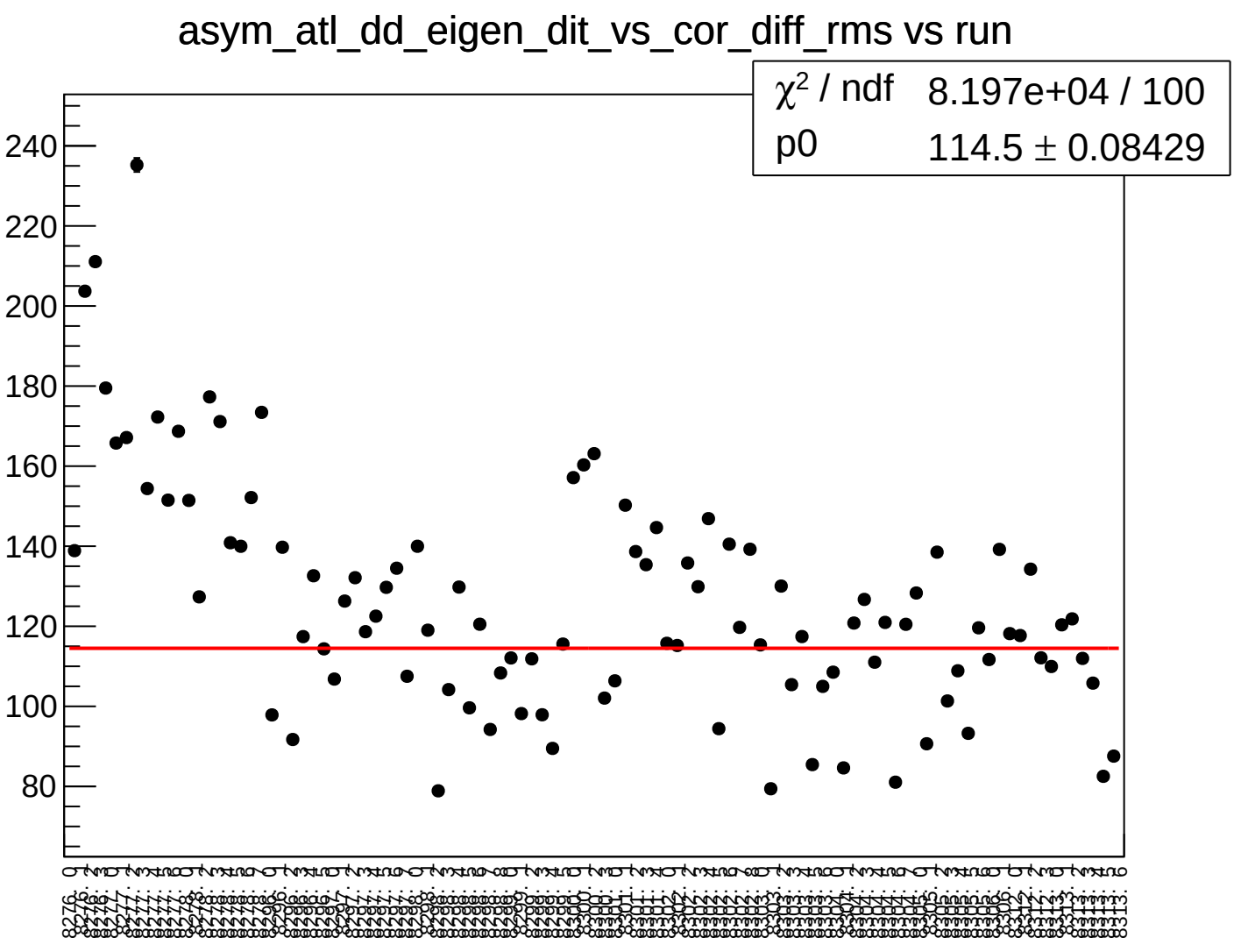

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.4 / 100
p0 0.3108 ± 0.1192
pull
Entries 101
Mean −72.25
Std Dev 0
pull1D
Entries 101
Mean −0.02685
Std Dev 1.021

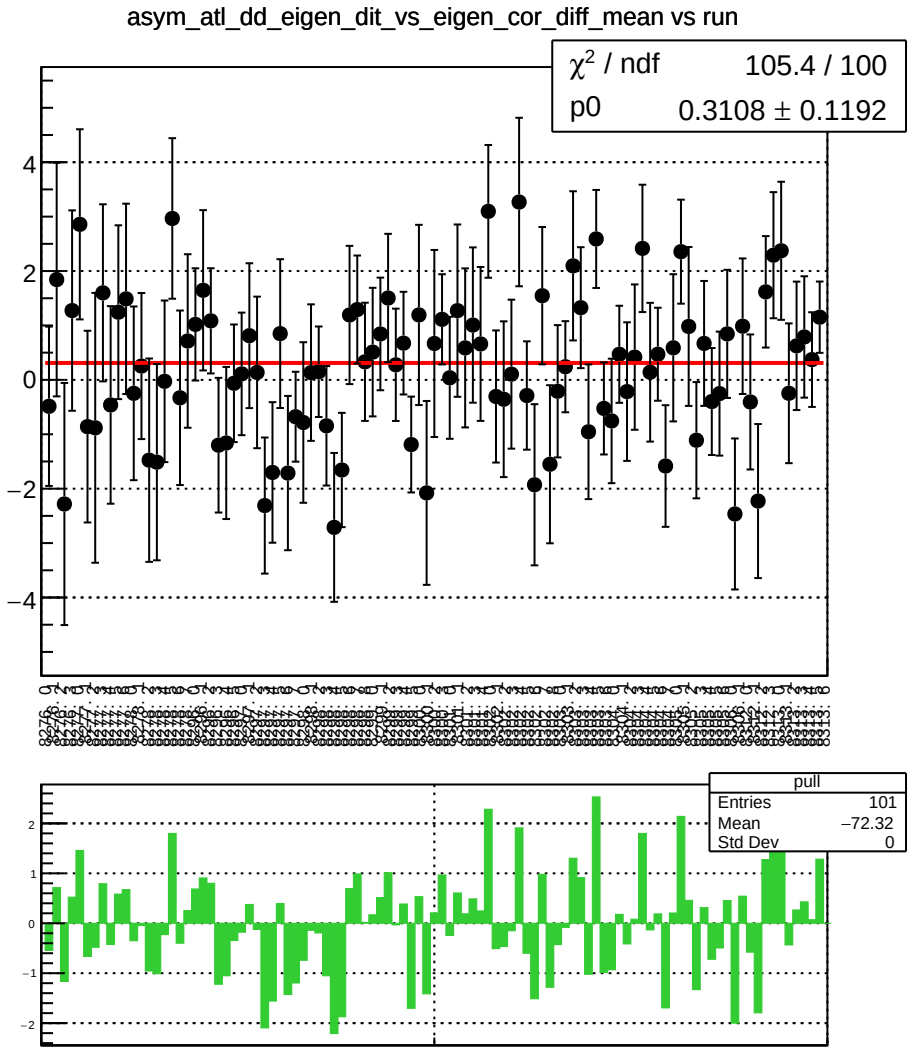

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.197e+04 / 100
p0 114.5 ± 0.08429
240
220
200
180
160
140
120
100
80

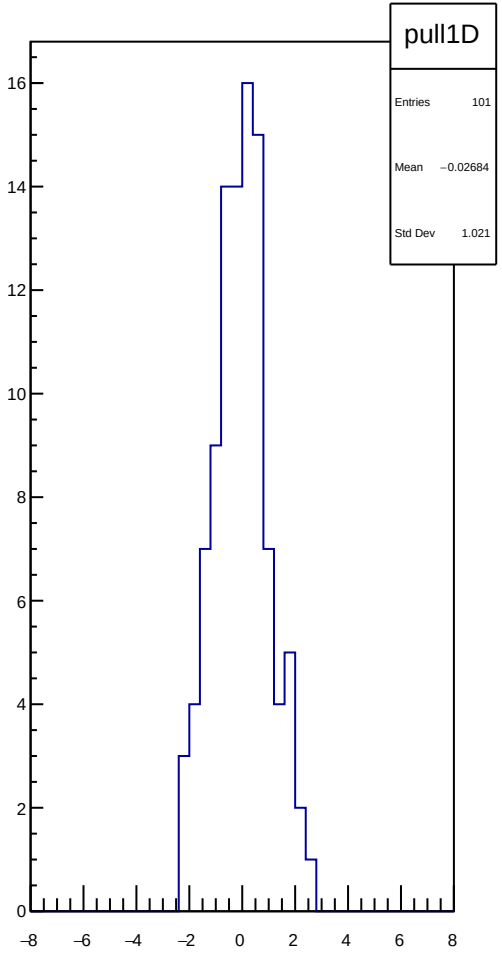

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 118.7 / 100
p0 6.37e−06 ± 7.812e−06
pull
Entries 101
Mean 177.5
Std Dev 0
pull1D
Entries 101
Mean 0.04551
Std Dev 1.083

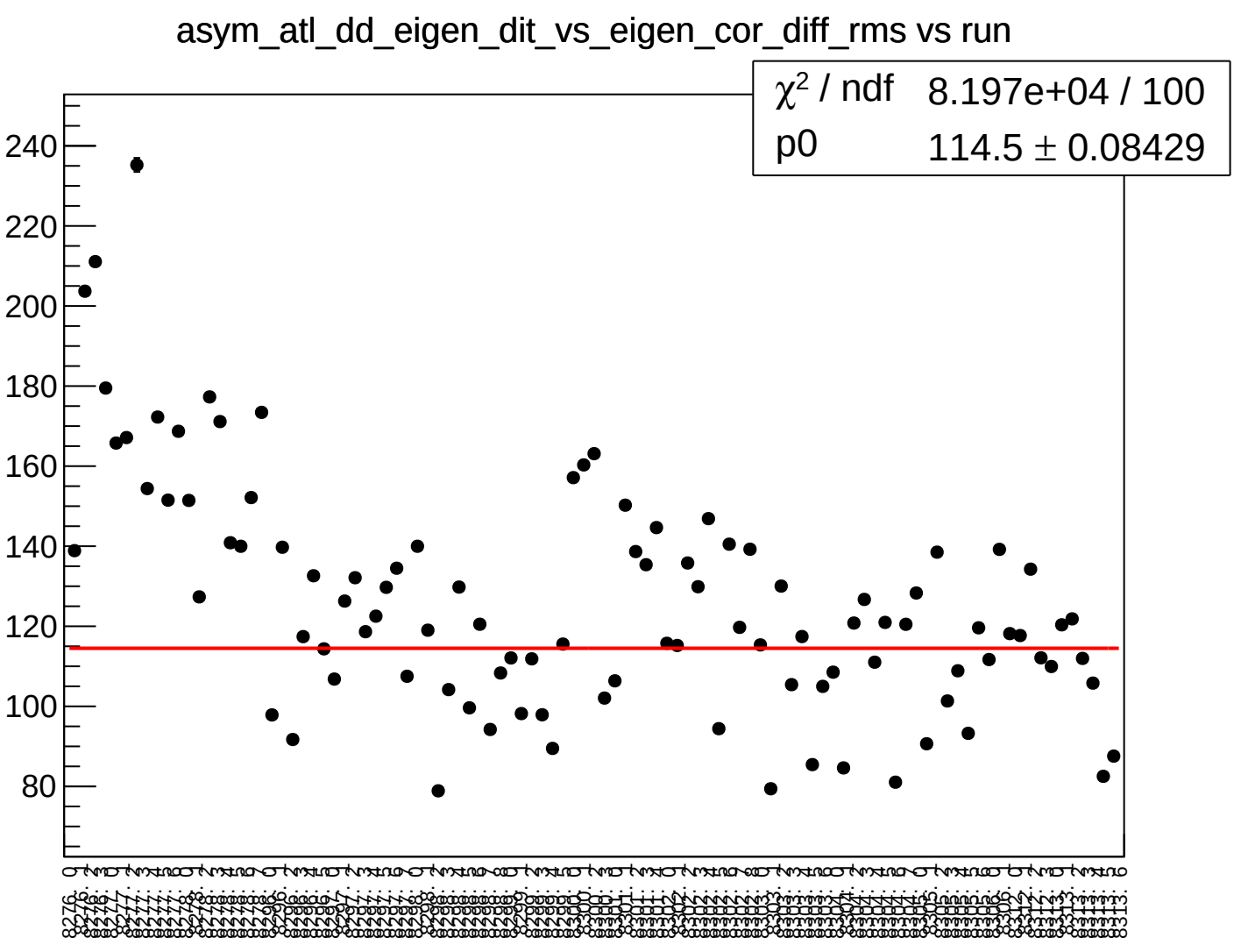

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.778e+05 / 100
p0 0.006175 ± 5.524e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

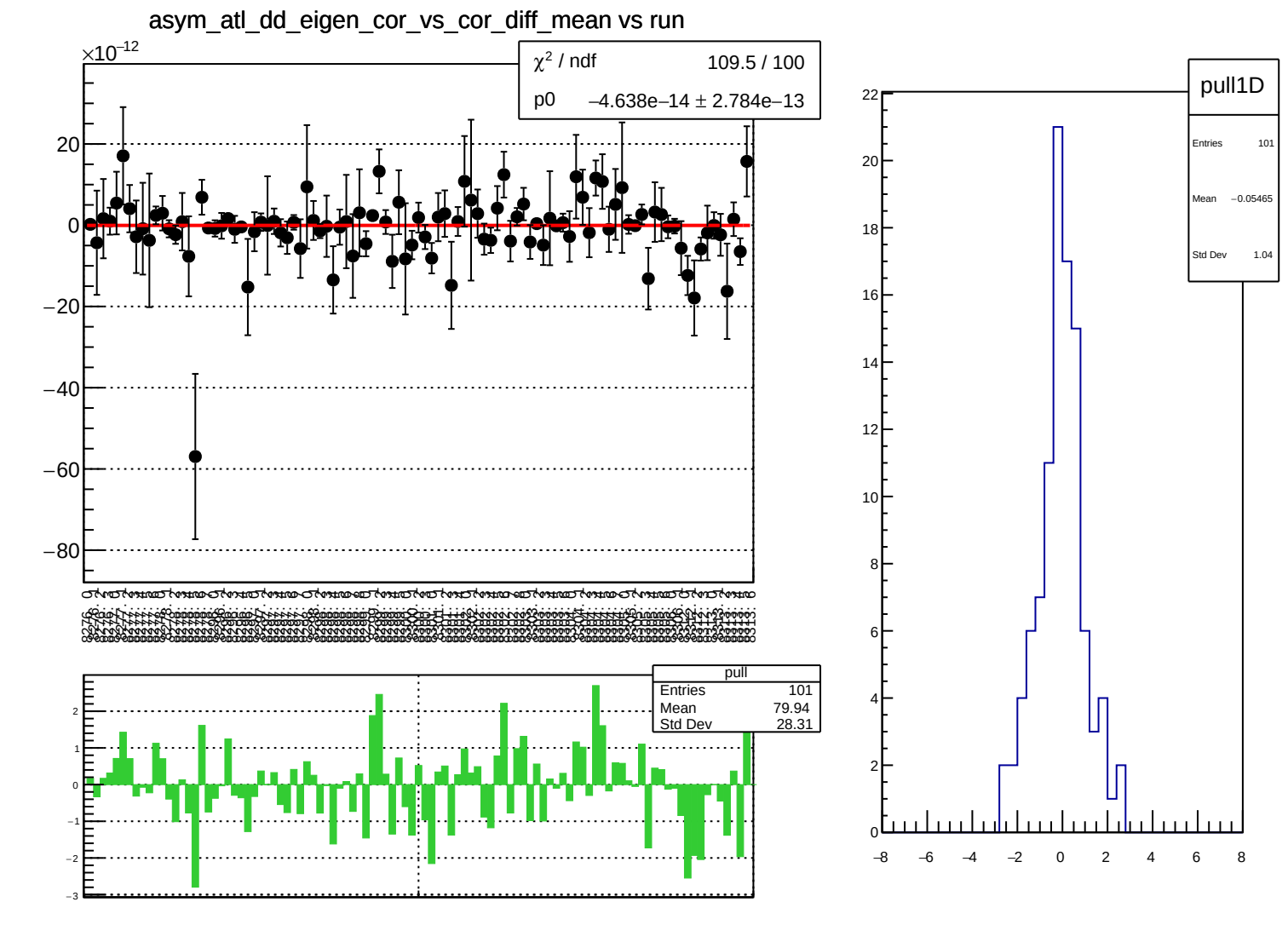

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 105.4 / 100
p0 0.3108 ± 0.1192
pull
Entries 101
Mean −72.32
Std Dev 0
pull1D
Entries 101
Mean −0.02684
Std Dev 1.021

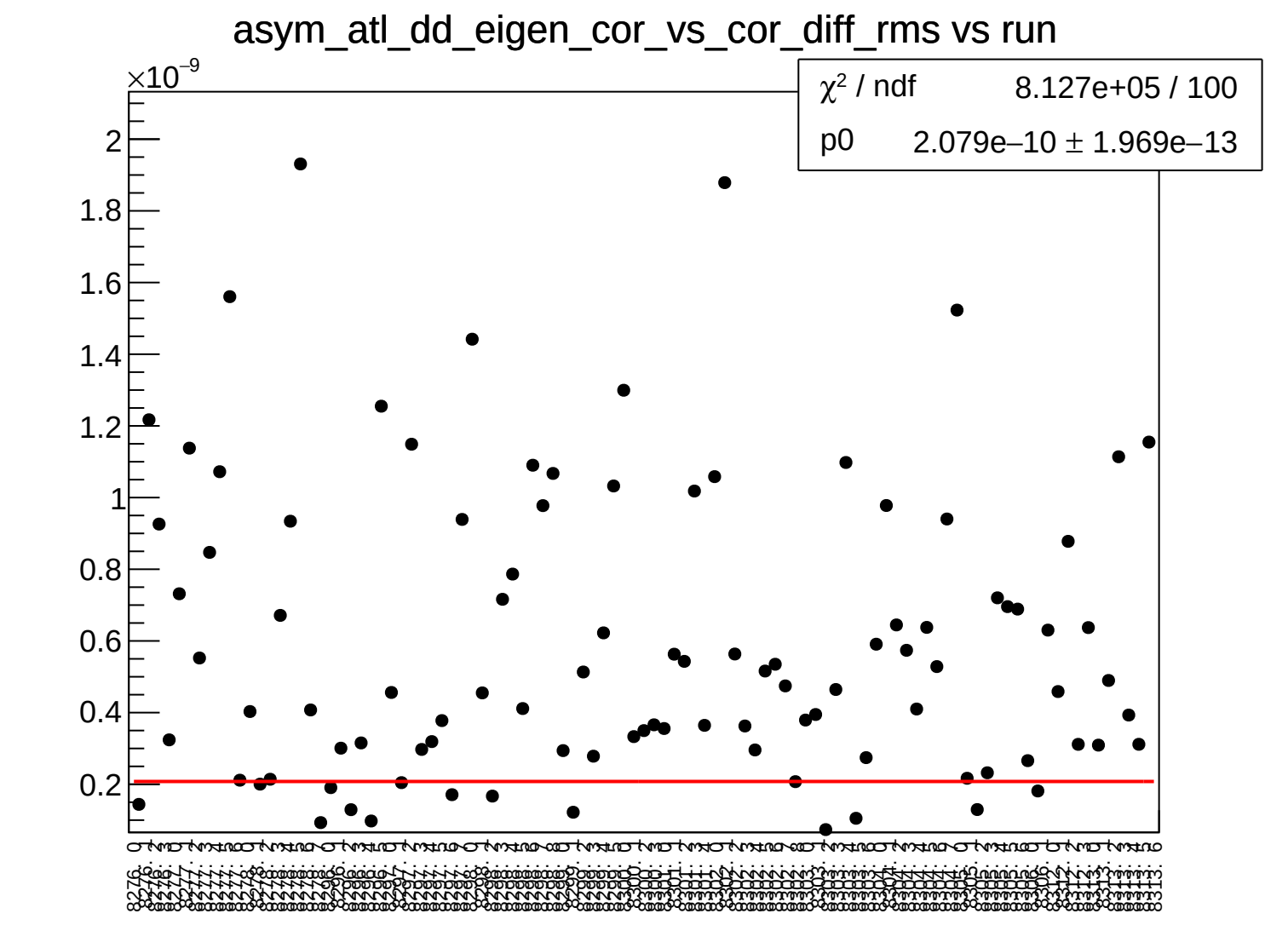

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.197e+04 / 100
p0 114.5 ± 0.08429
240
220
200
180
160
140
120
100
80

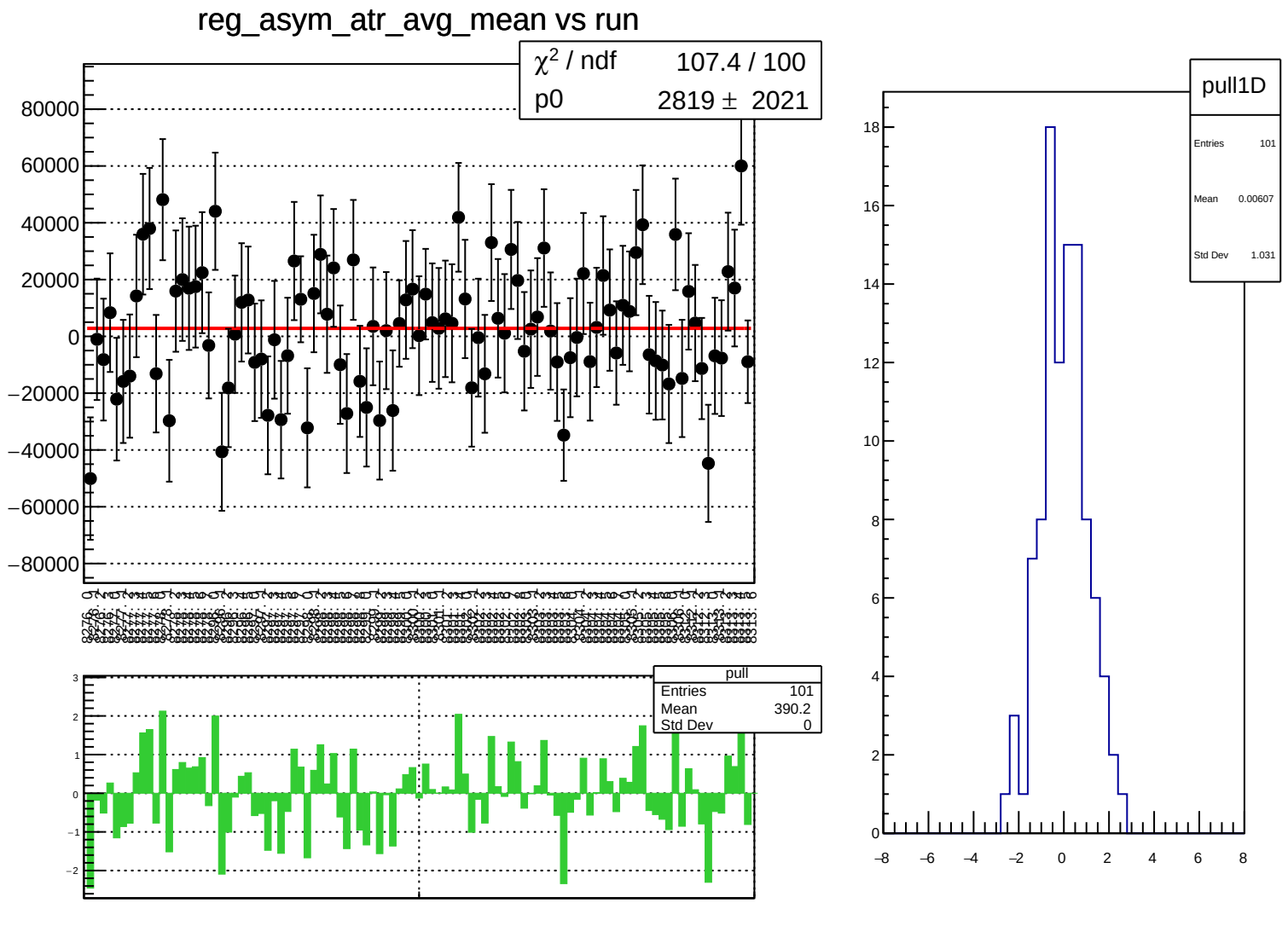

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.4 / 100
p0 0.3108 ± 0.1192
pull
Entries 101
Mean −72.32
Std Dev 0

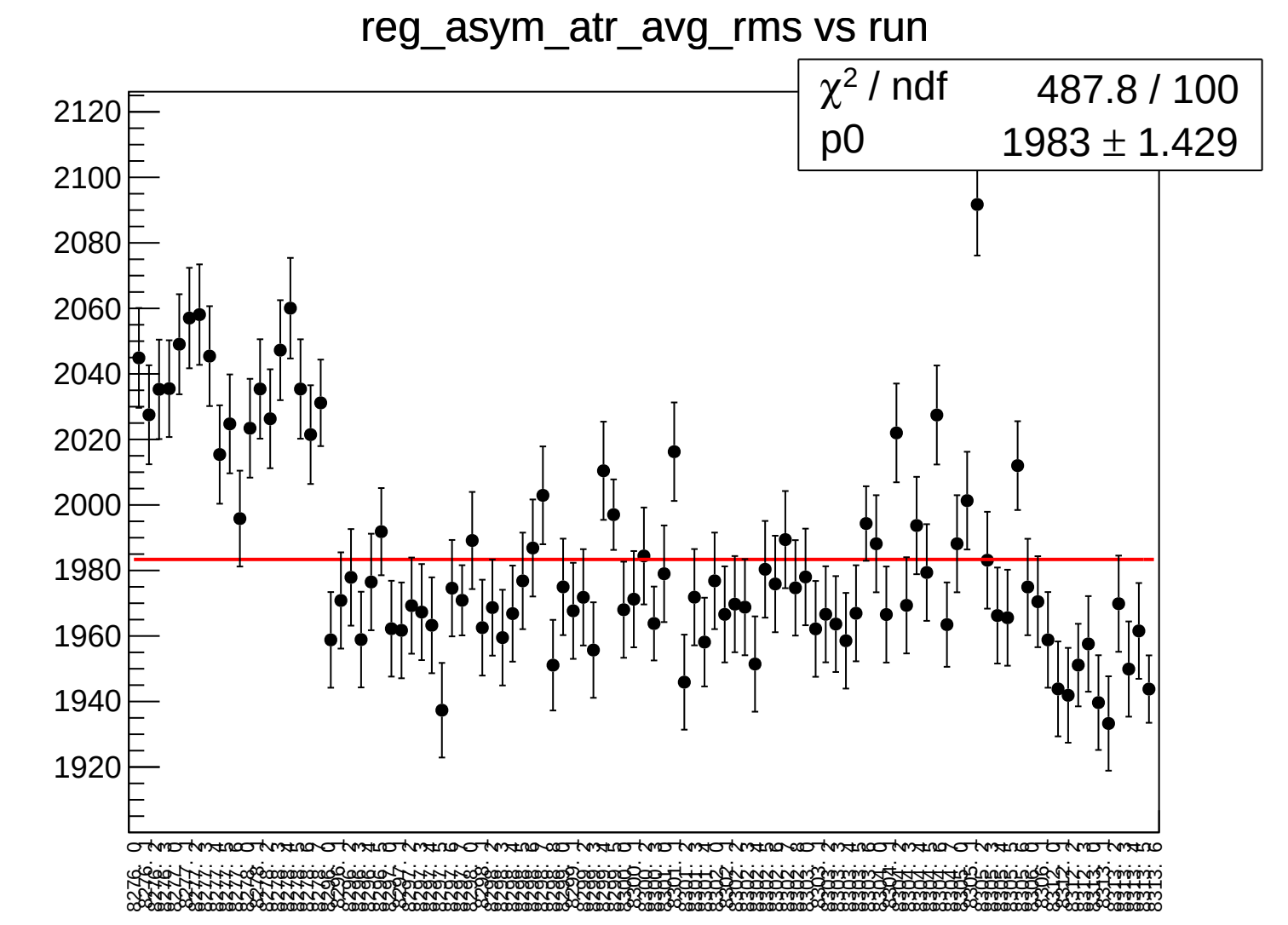

pull1D
Entries 101
Mean −0.02684
Std Dev 1.021

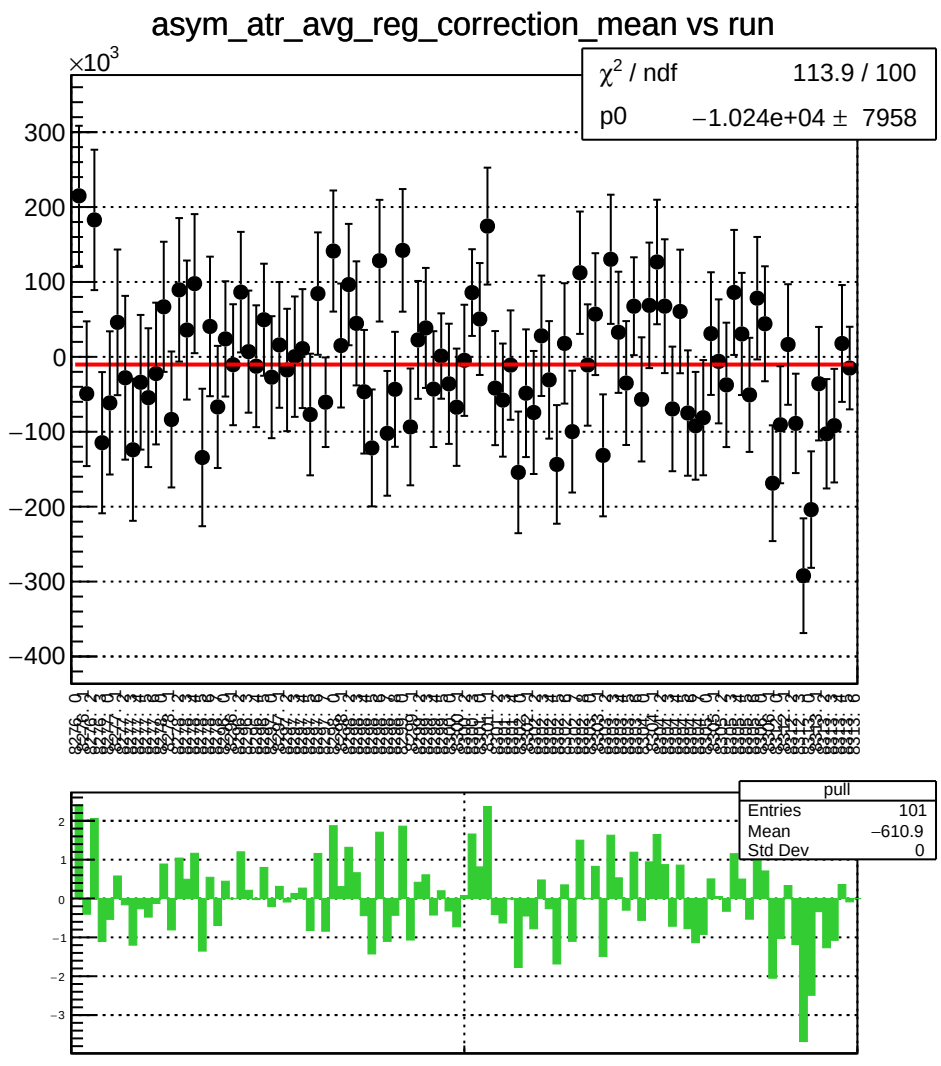

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.197e+04 / 100
p0 114.5 ± 0.08429
240
220
200
180
160
140
120
100
80

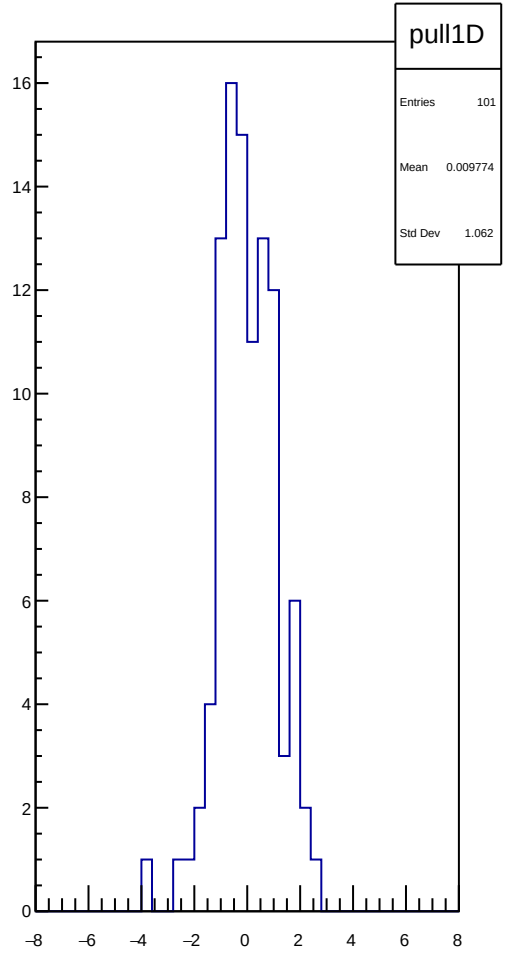

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 109.5 / 100
p0 −4.638e−14 ± 2.784e−13
pull
Entries 101
Mean 79.94
Std Dev 28.31
pull1D
Entries 101
Mean −0.05465
Std Dev 1.04

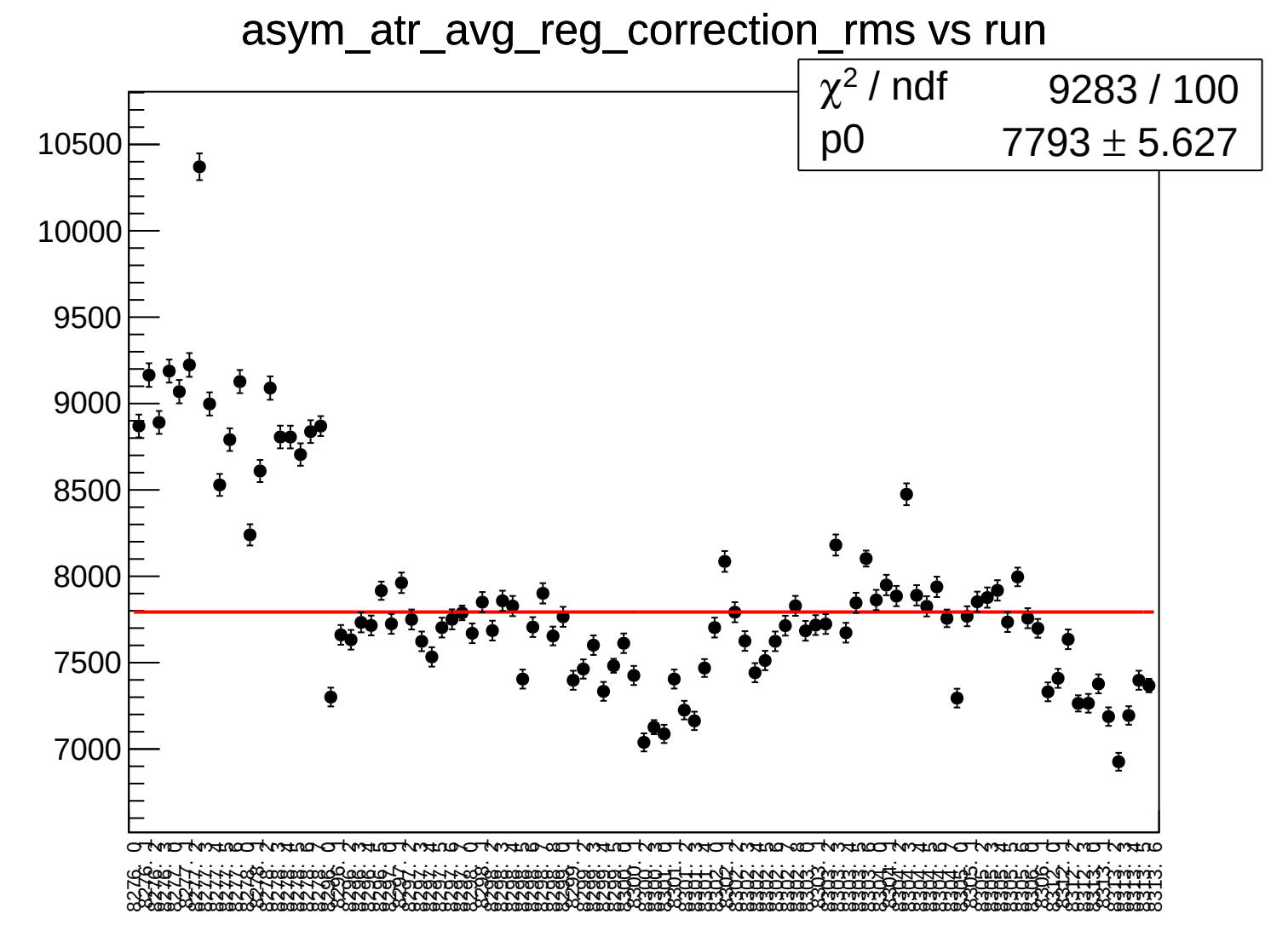

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.127e+05 / 100
p0 2.079e−10 ± 1.969e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

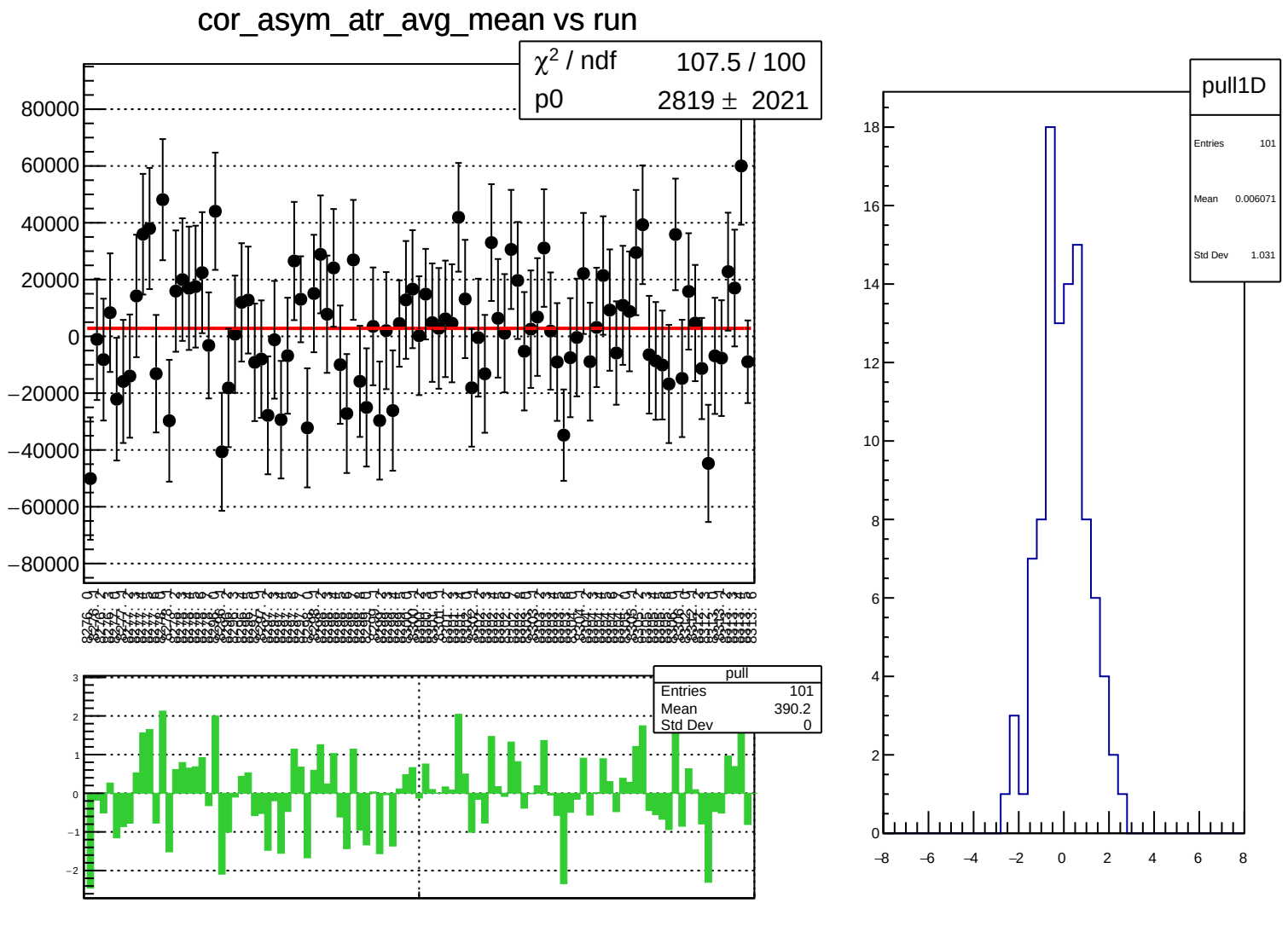

reg_asym_atr_avg_mean vs run
χ² / ndf 107.4 / 100
p0 2819 ± 2021
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 101
Mean 390.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.00607
Std Dev 1.031
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

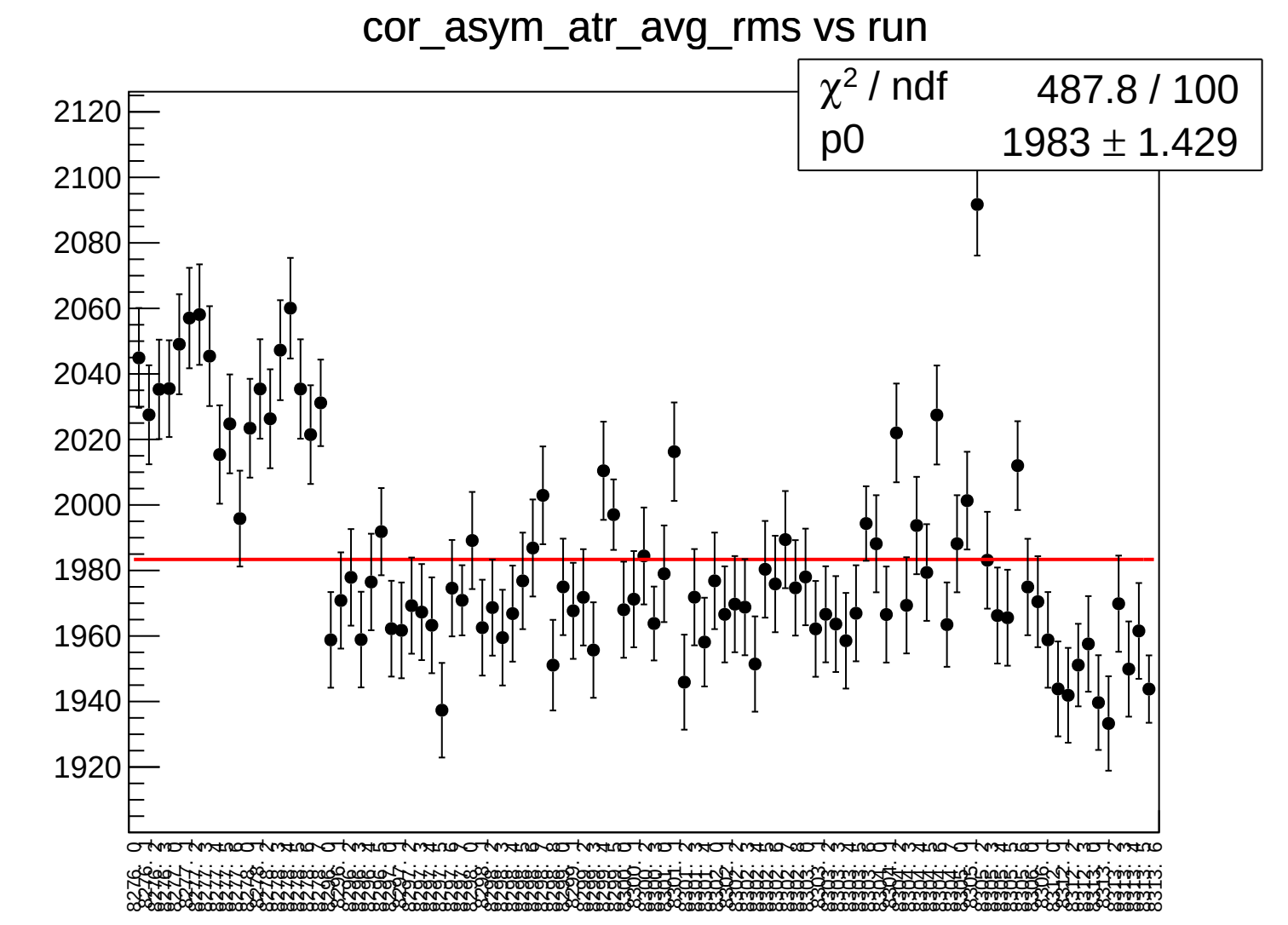

reg_asym_atr_avg_rms vs run
χ^2 / ndf 487.8 / 100
p0 1983 ± 1.429
2120
2100
2080
2060
2040
2020
2000
1980
1960
1940
1920

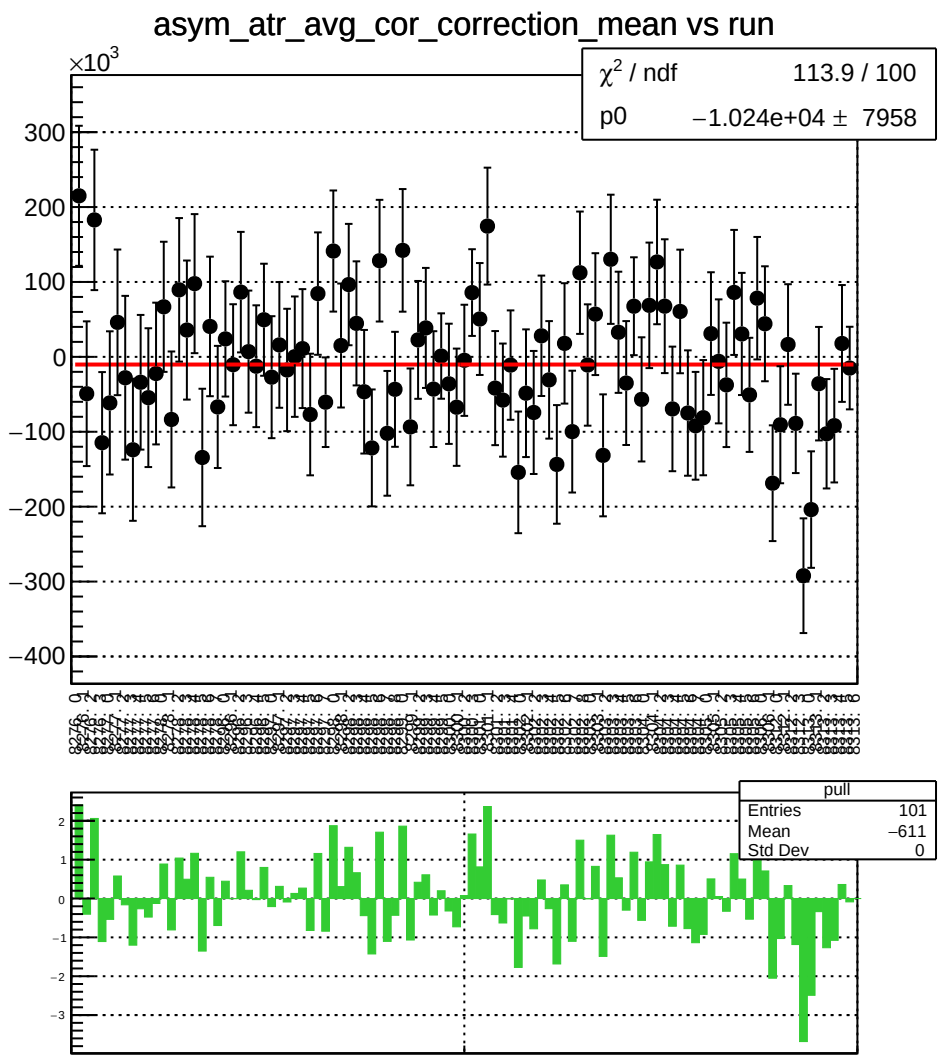

asym_atr_avg_reg_correction_mean vs run
×10^3
χ² / ndf 113.9 / 100
p0 −1.024e+04 ± 7958
300
200
100
0
−100
−200
−300
−400
pull
Entries 101
Mean −610.9
Std Dev 0
2
1
0
−1
−2
−3

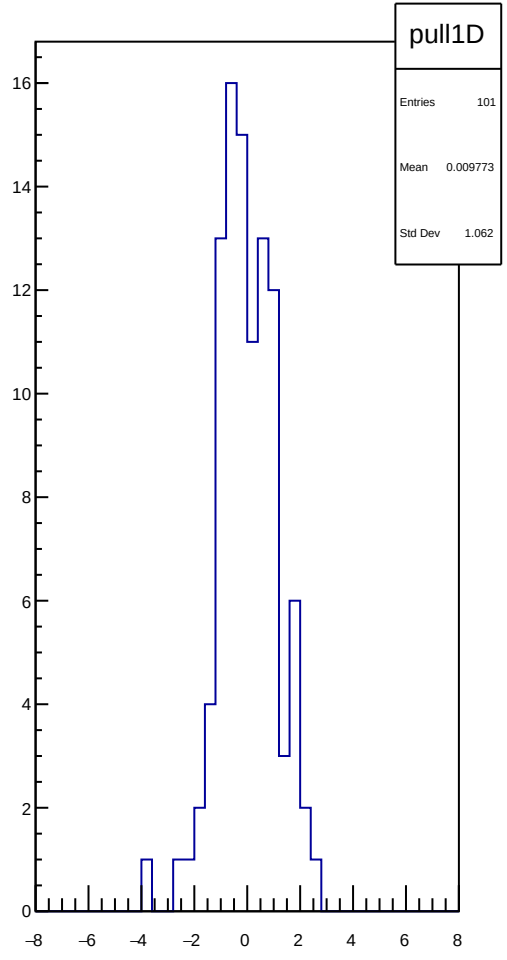

pull1D
Entries 101
Mean 0.009774
Std Dev 1.062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

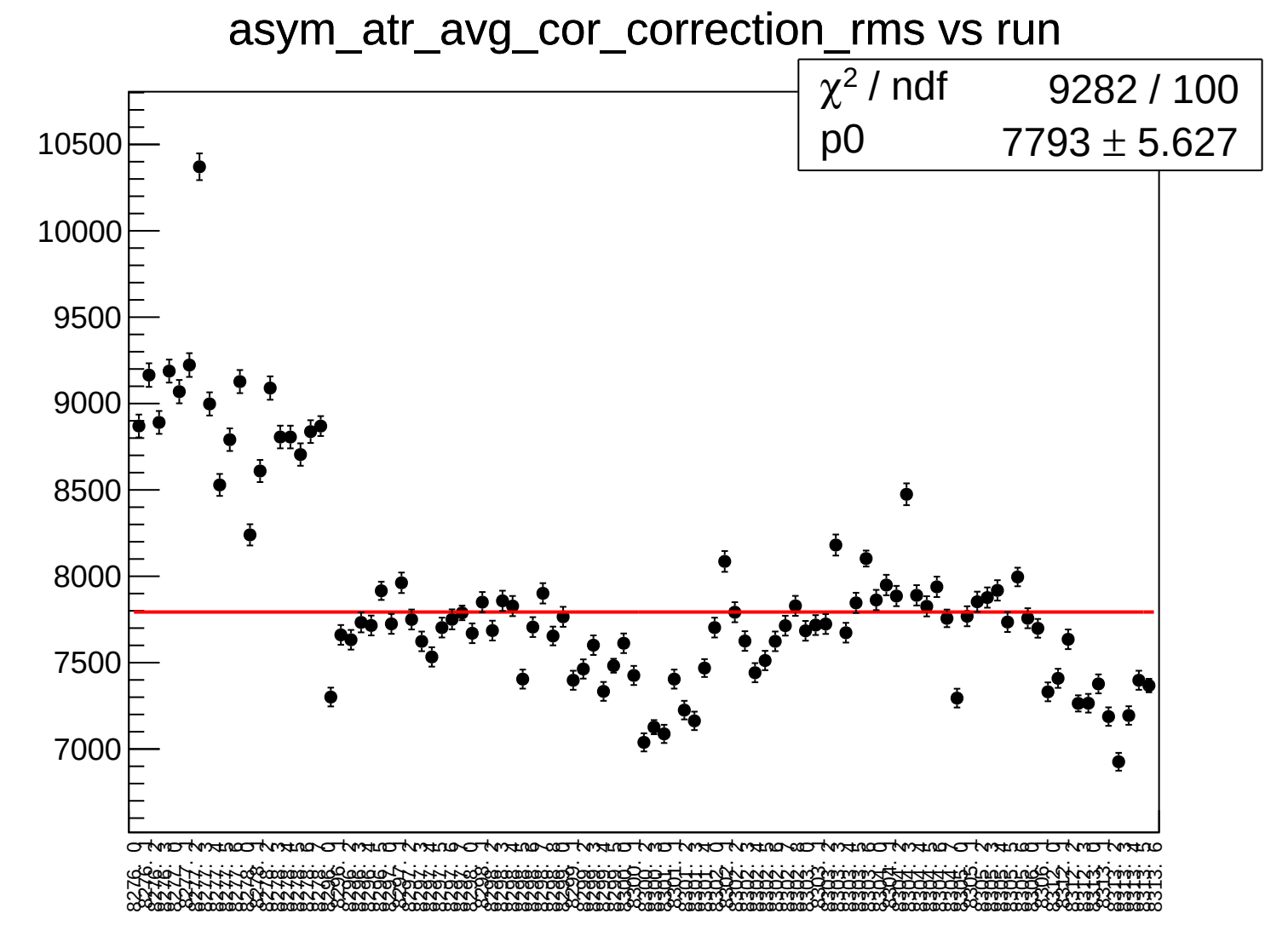

asym_atr_avg_reg_correction_rms vs run
χ^2 / ndf 9283 / 100
p0 7793 ± 5.627
10500
10000
9500
9000
8500
8000
7500
7000

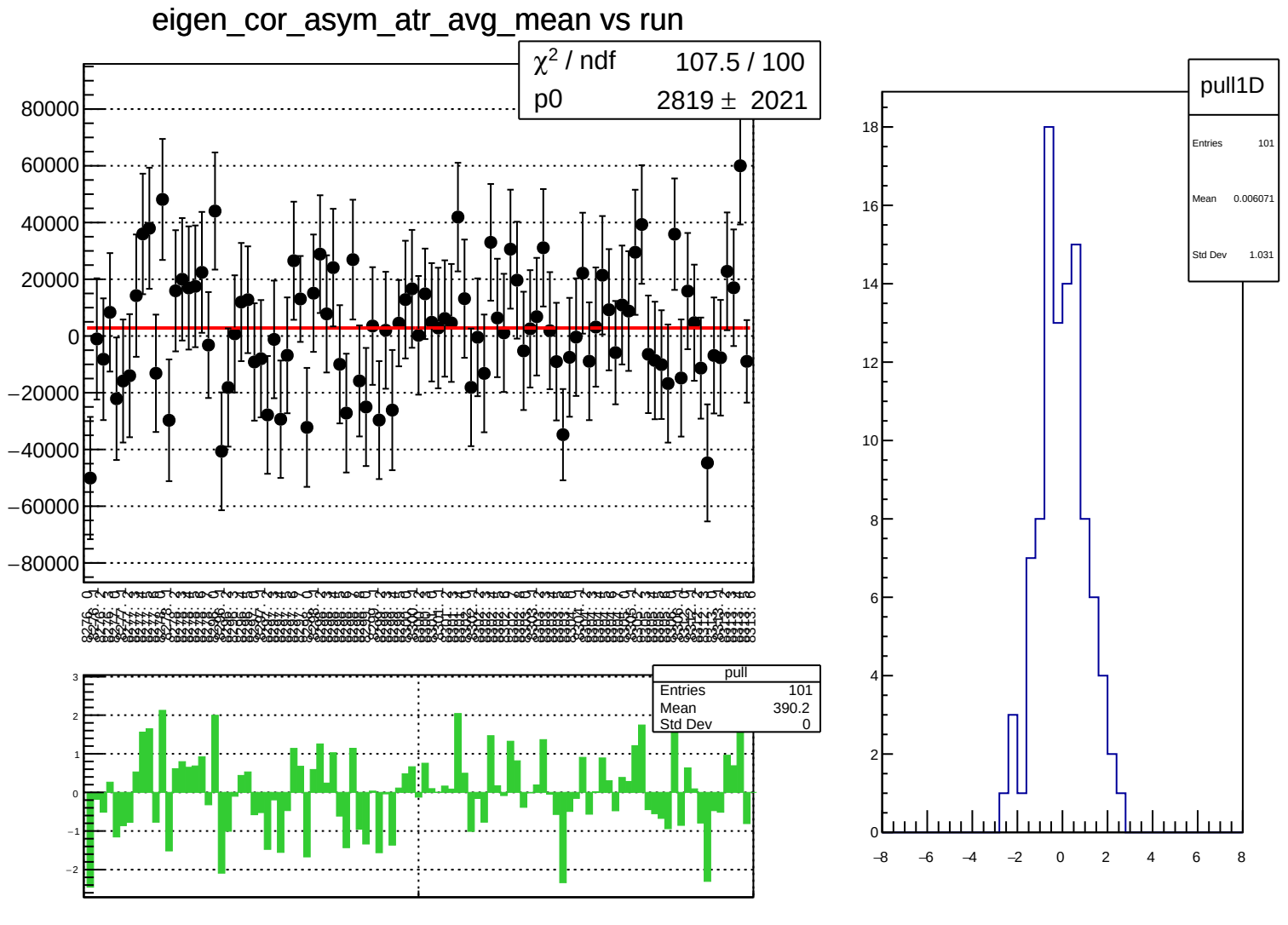

cor_asym_atr_avg_mean vs run
χ² / ndf 107.5 / 100
p0 2819 ± 2021
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 101
Mean 390.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.006071
Std Dev 1.031
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

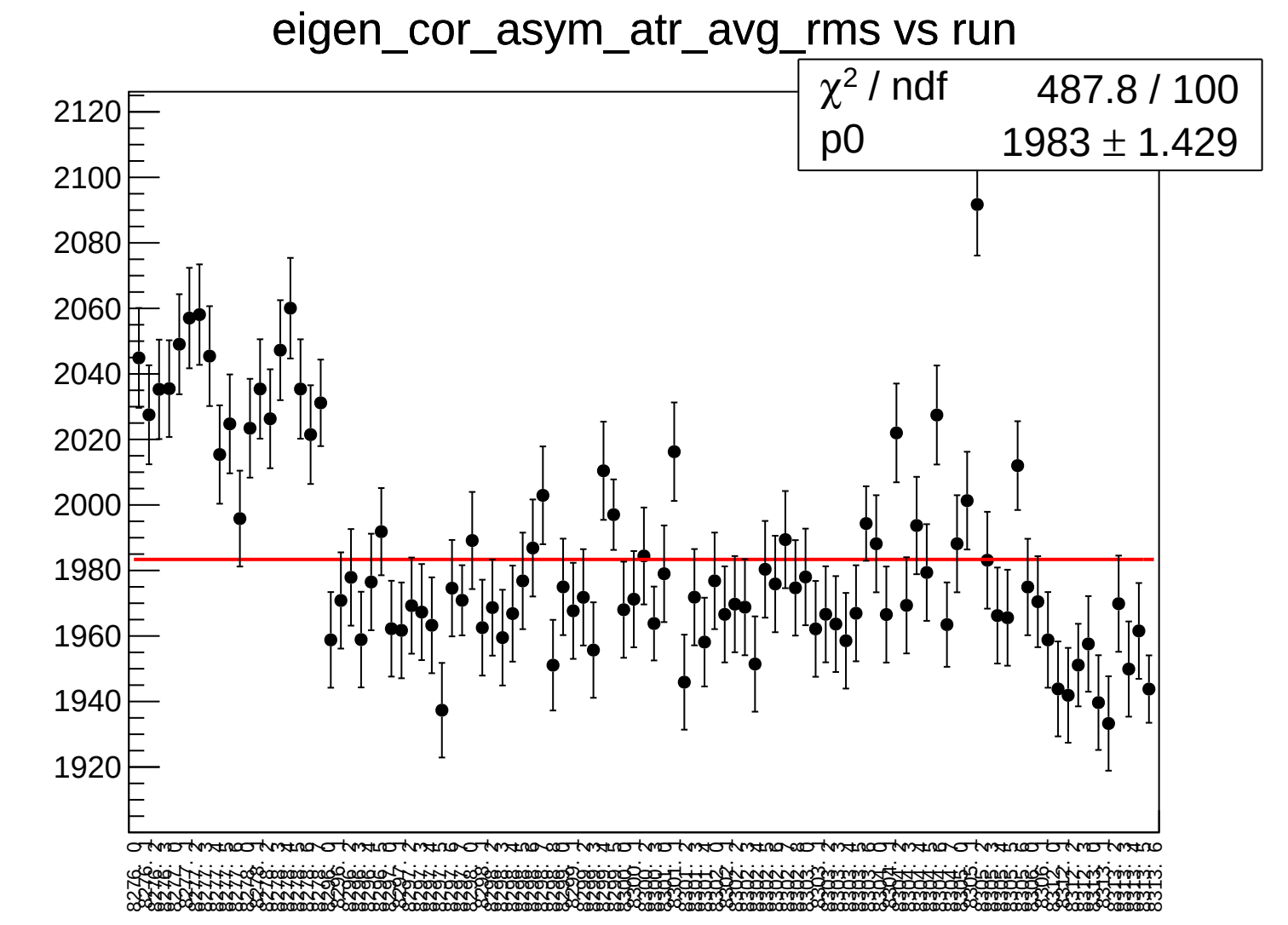

cor_asym_atr_avg_rms vs run
χ² / ndf 487.8 / 100
p0 1983 ± 1.429
2120
2100
2080
2060
2040
2020
2000
1980
1960
1940
1920

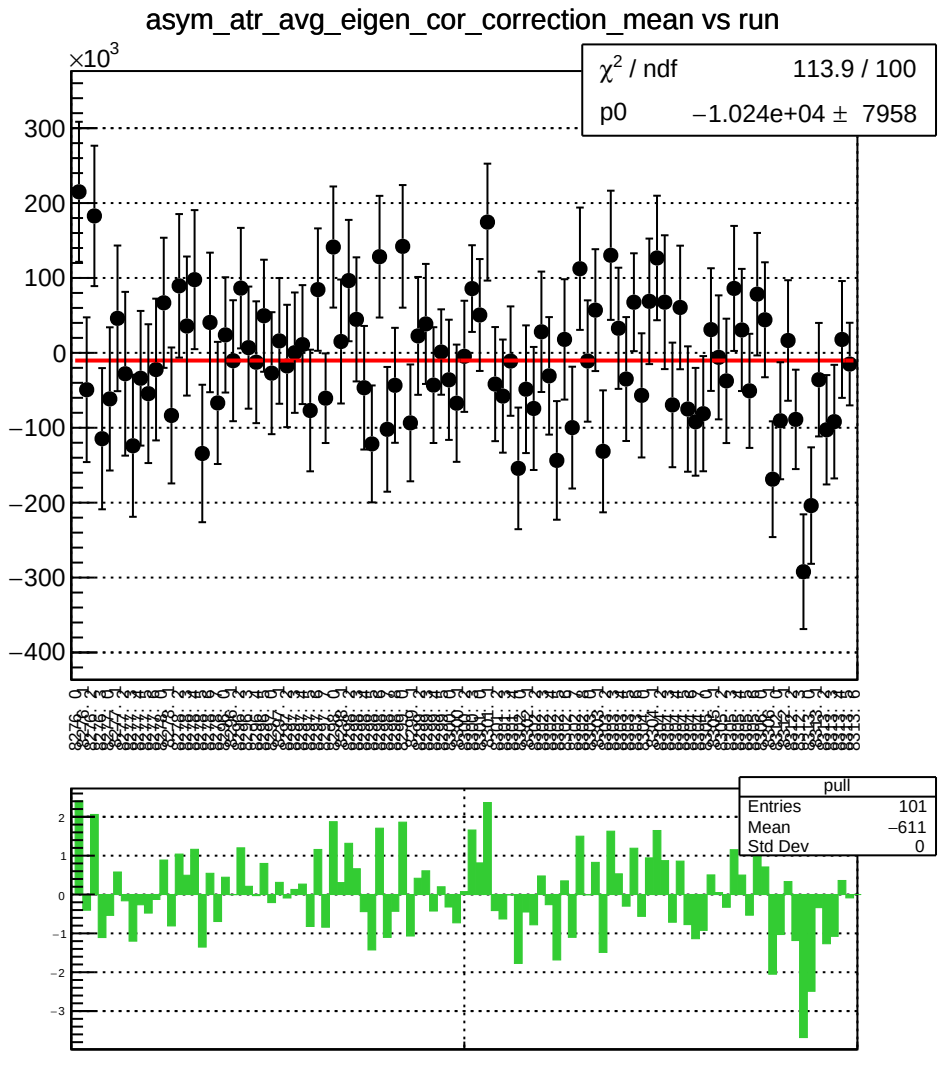

asym_atr_avg_cor_correction_mean vs run
χ² / ndf 113.9 / 100
p0 −1.024e+04 ± 7958
×10³
300
200
100
0
−100
−200
−300
−400
pull
Entries 101
Mean −611
Std Dev 0
2
1
0
−1
−2
−3

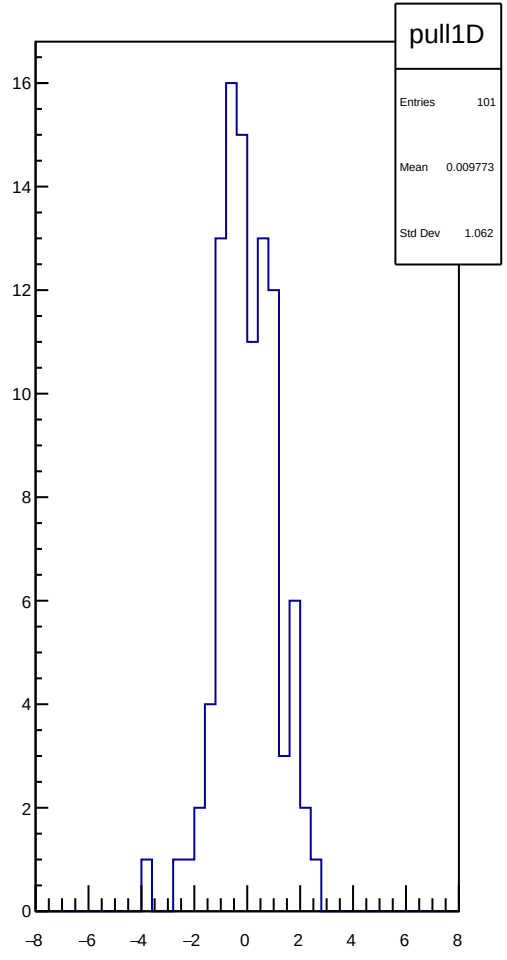

pull1D
Entries 101
Mean 0.009773
Std Dev 1.062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

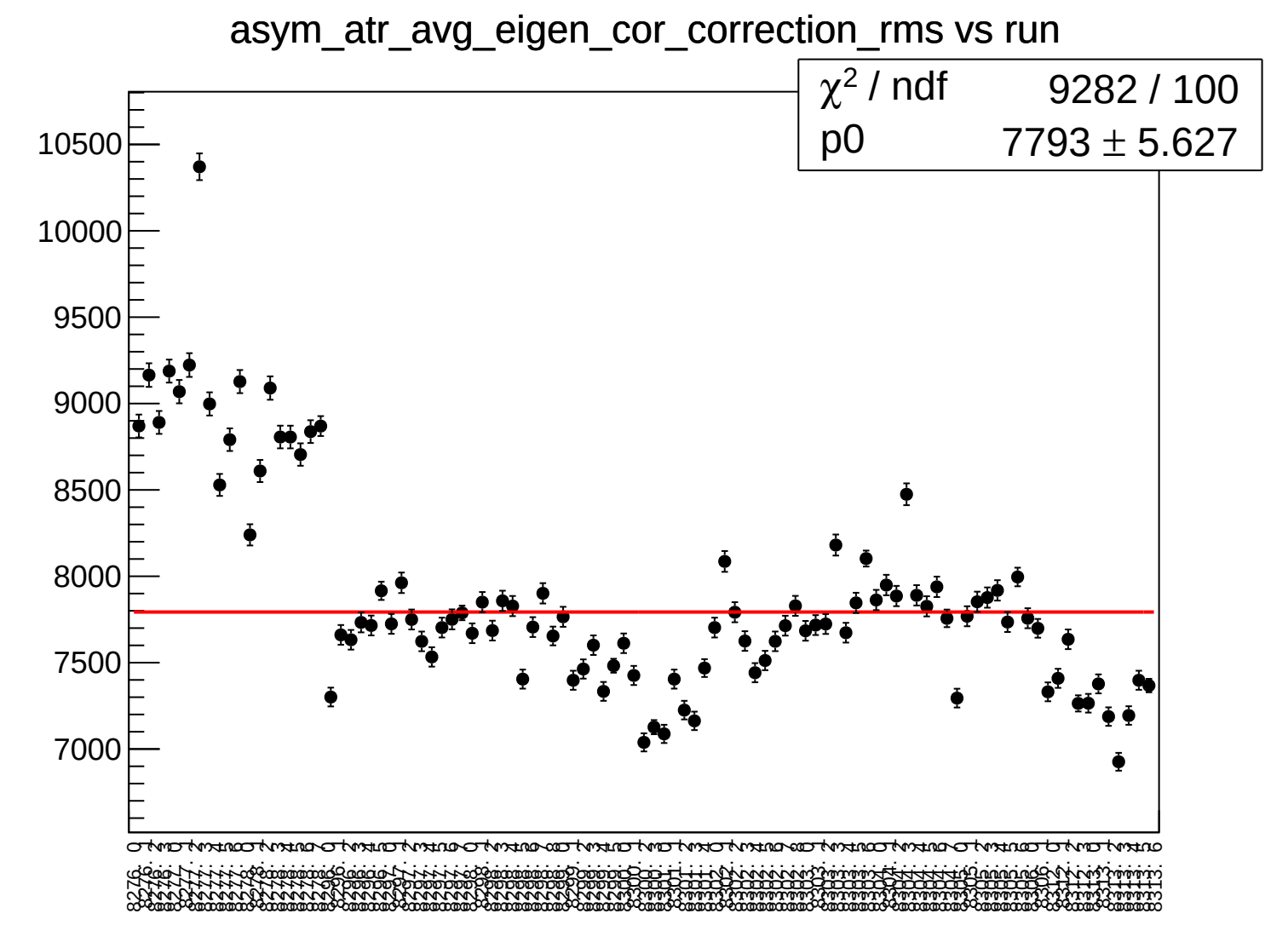

asym_atr_avg_cor_correction_rms vs run
χ^2 / ndf 9282 / 100
p0 7793 ± 5.627
10500
10000
9500
9000
8500
8000
7500
7000

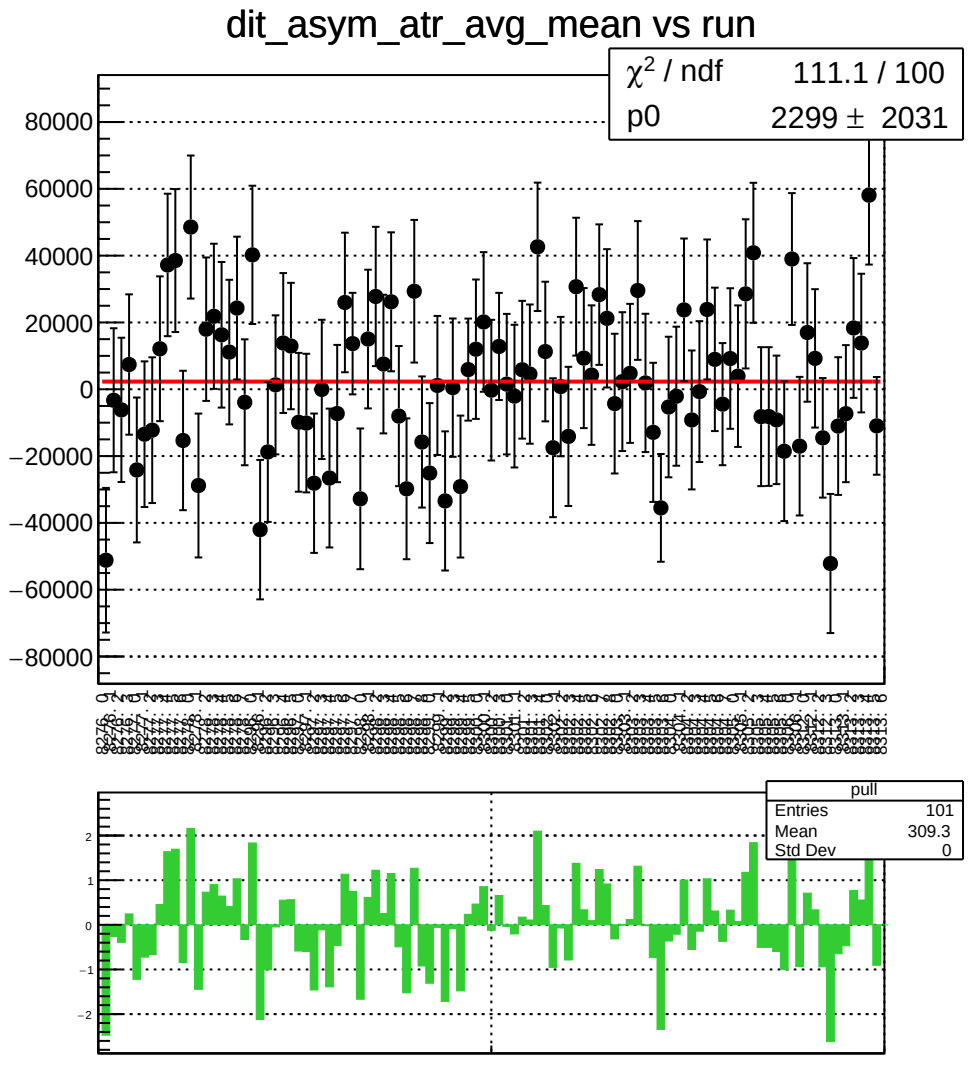

eigen_cor_asym_atr_avg_mean vs run
χ² / ndf 107.5 / 100
p0 2819 ± 2021
pull
Entries 101
Mean 390.2
Std Dev 0
pull1D
Entries 101
Mean 0.006071
Std Dev 1.031

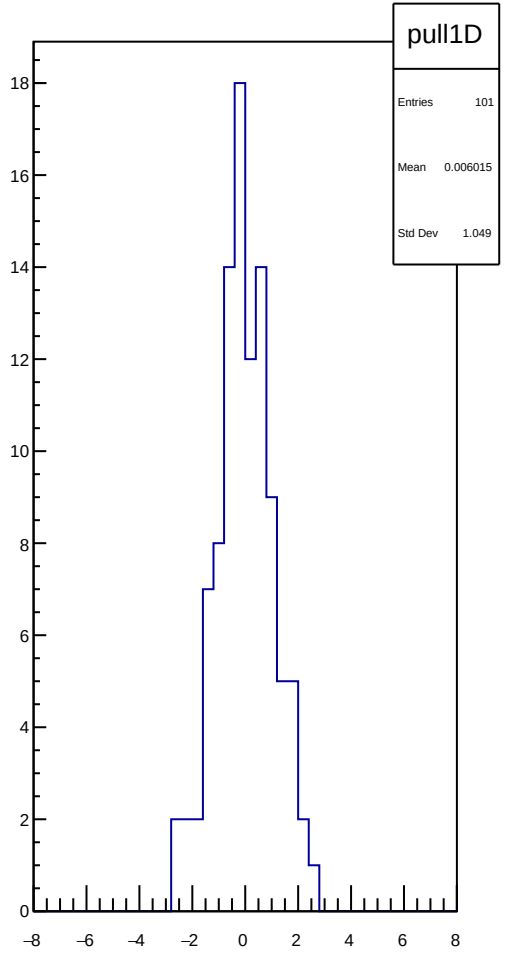

eigen_cor_asym_atr_avg_rms vs run
χ² / ndf 487.8 / 100
p0 1983 ± 1.429
2120
2100
2080
2060
2040
2020
2000
1980
1960
1940
1920

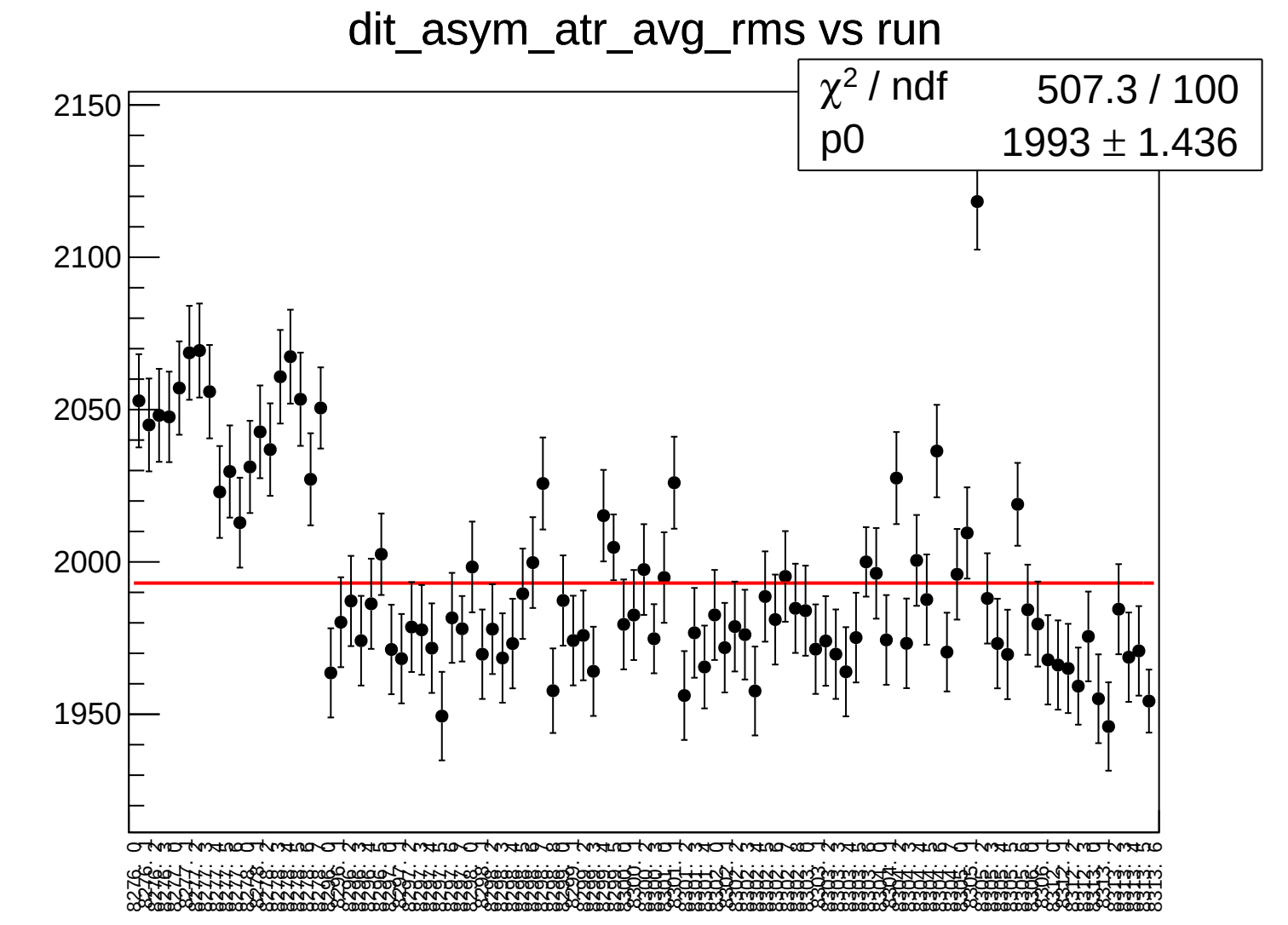

asym_atr_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 113.9 / 100
p0 −1.024e+04 ± 7958
300
200
100
0
−100
−200
−300
−400
pull
Entries 101
Mean −611
Std Dev 0
2
1
0
−1
−2
−3

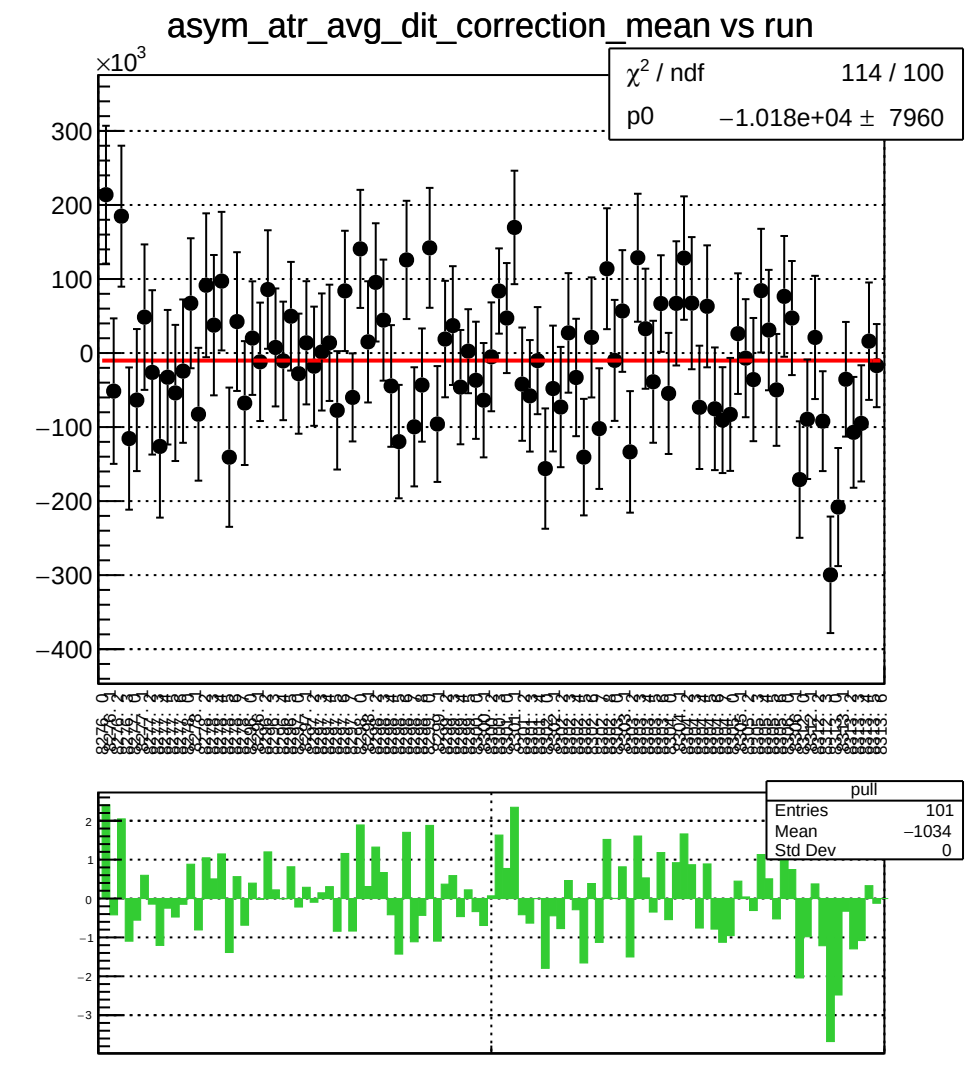

pull1D
Entries 101
Mean 0.009773
Std Dev 1.062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

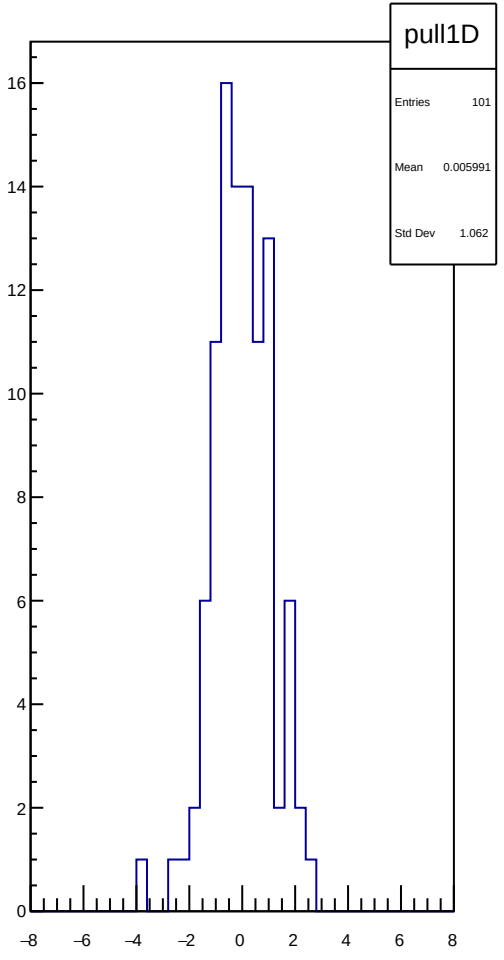

asym_atr_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 9282 / 100
p0 7793 ± 5.627
10500
10000
9500
9000
8500
8000
7500
7000

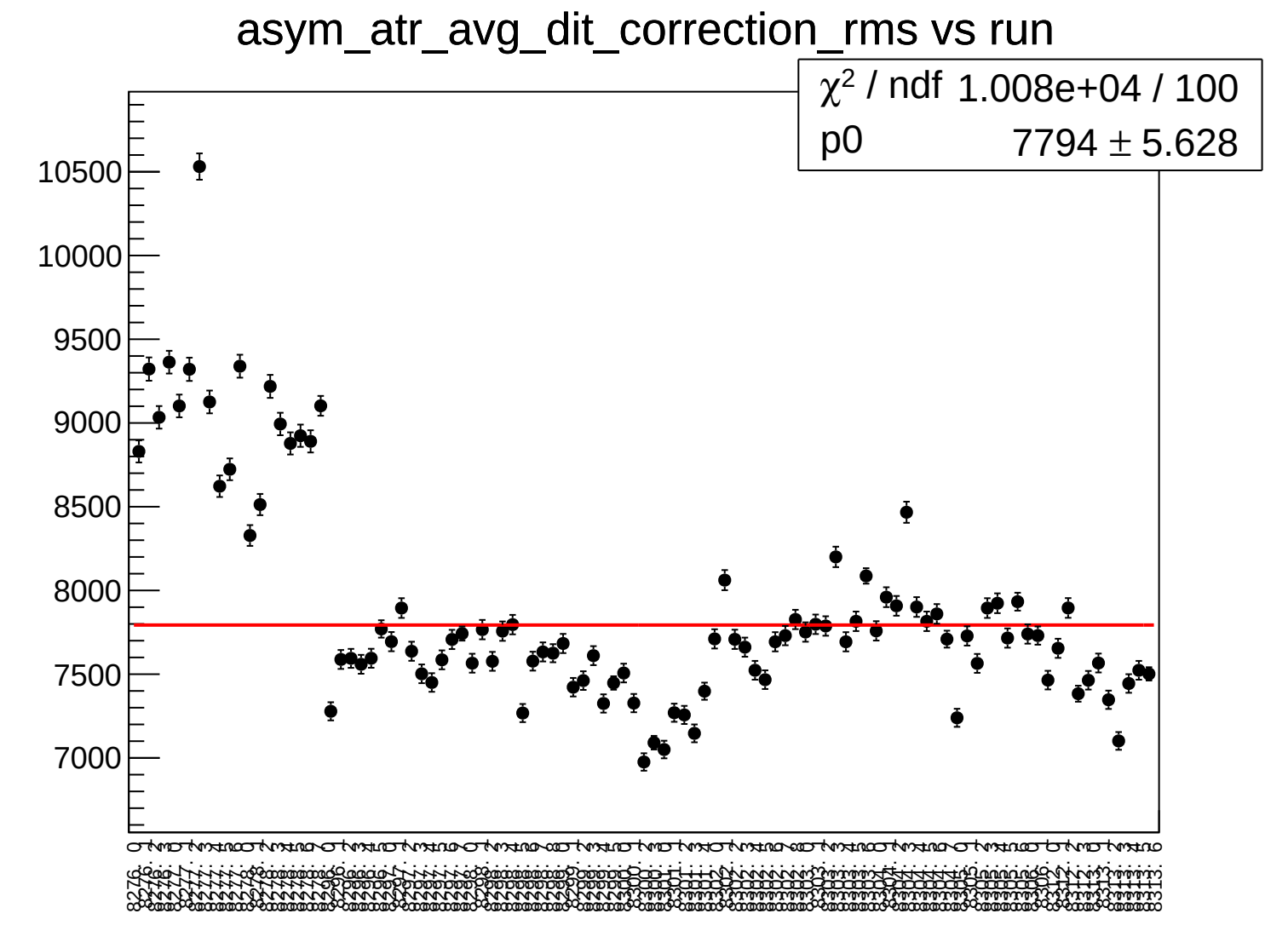

dit_asym_atr_avg_mean vs run
χ² / ndf 111.1 / 100
p0 2299 ± 2031
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 101
Mean 309.3
Std Dev 0
2
1
0
−1
−2

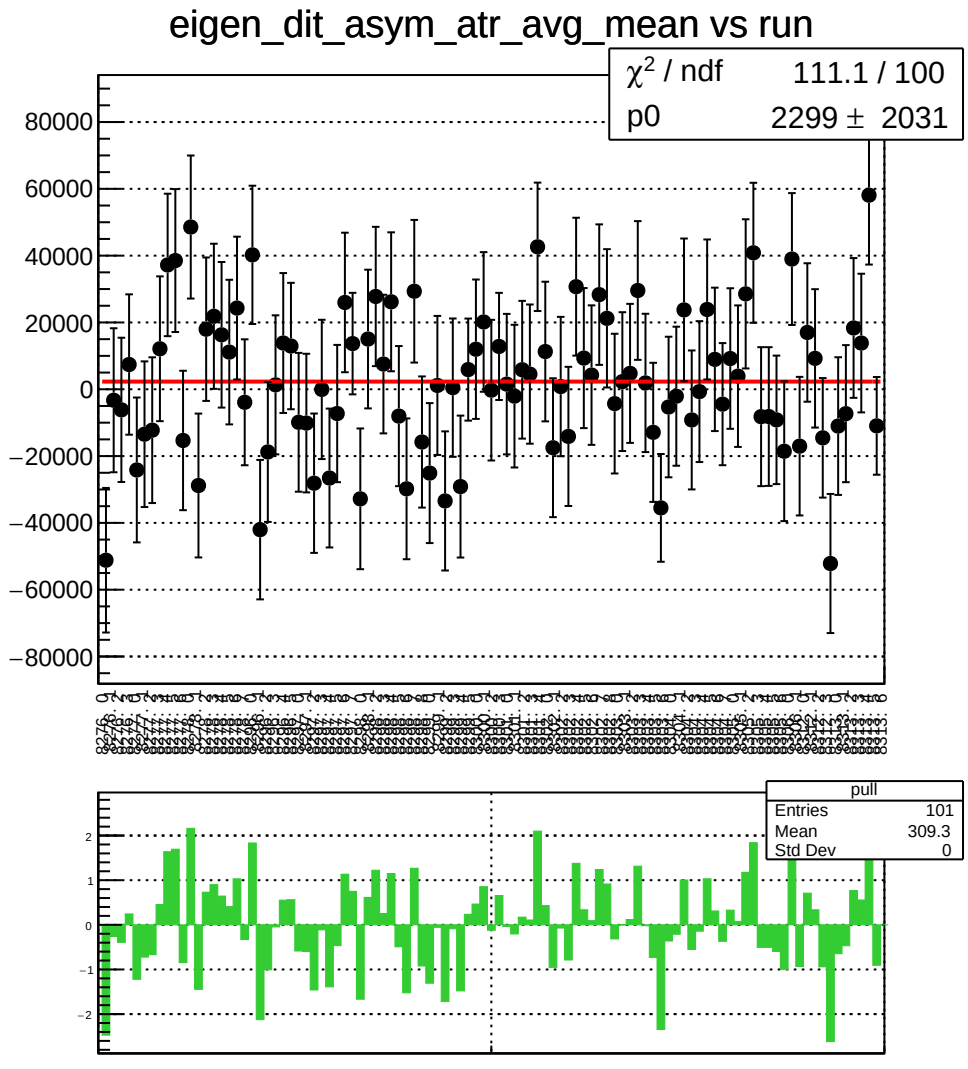

pull1D
Entries 101
Mean 0.006015
Std Dev 1.049
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

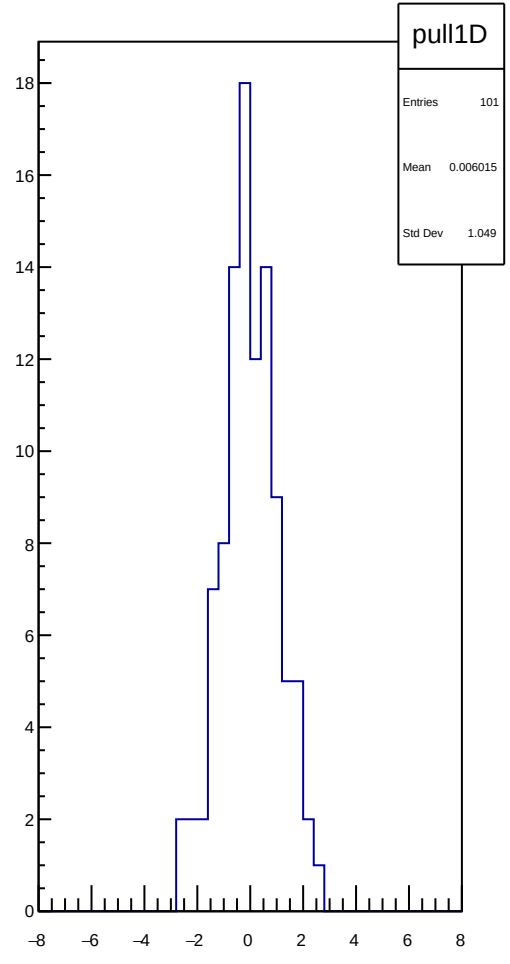

dit_asym_atr_avg_rms vs run
χ^2 / ndf 507.3 / 100
p0 1993 ± 1.436
2150
2100
2050
2000
1950


asym_atr_avg_dit_correction_mean vs run
×10^3
χ² / ndf 114 / 100
p0 −1.018e+04 ± 7960
300
200
100
0
−100
−200
−300
−400
pull
Entries 101
Mean −1034
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 101
Mean 0.005991
Std Dev 1.062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr_avg_dit_correction_rms vs run
χ² / ndf 1.008e+04 / 100
p0 7794 ± 5.628
10500
10000
9500
9000
8500
8000
7500
7000


eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 111.1 / 100
p0 2299 ± 2031
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 101
Mean 309.3
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 101
Mean 0.006015
Std Dev 1.049
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
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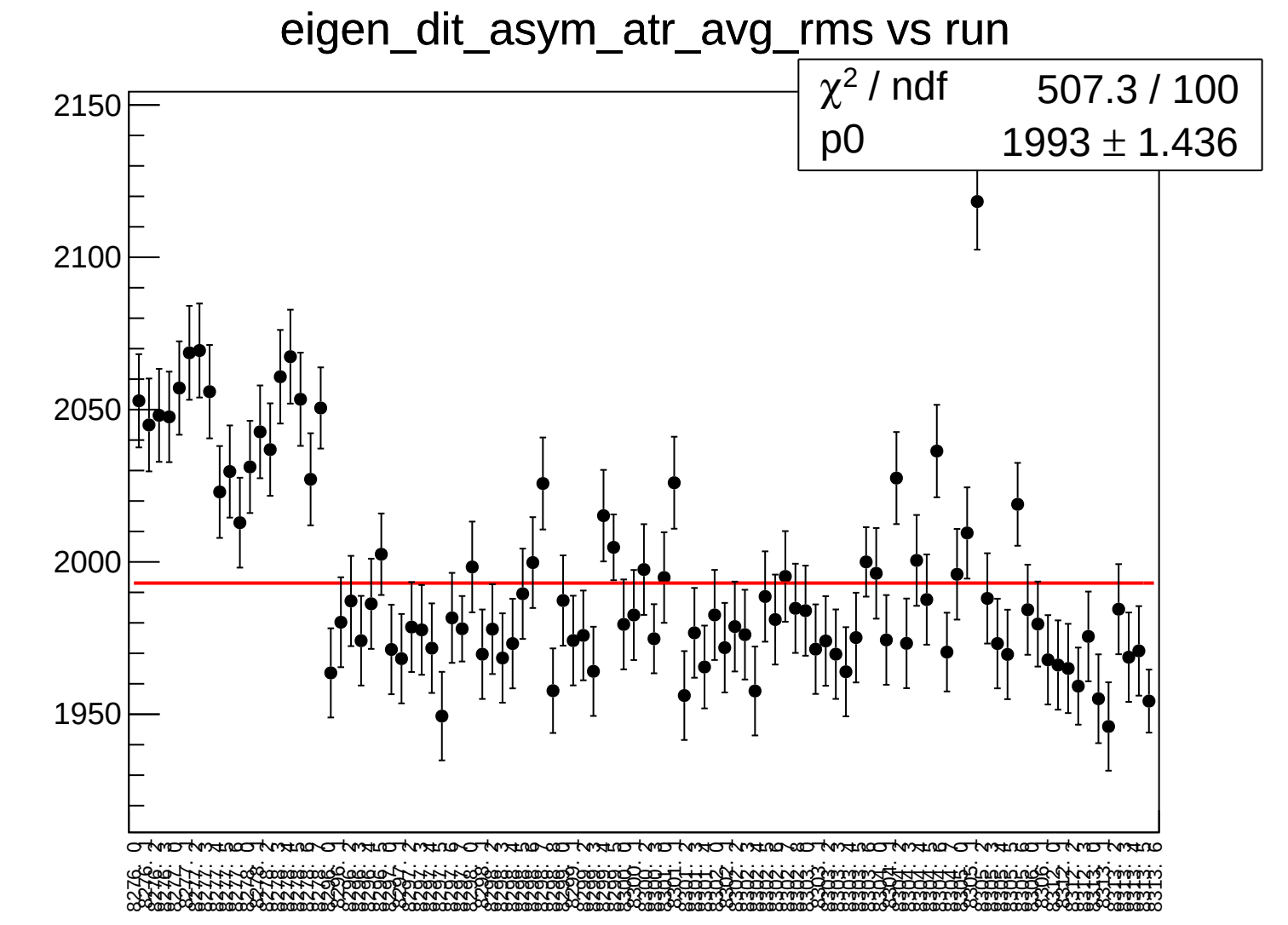
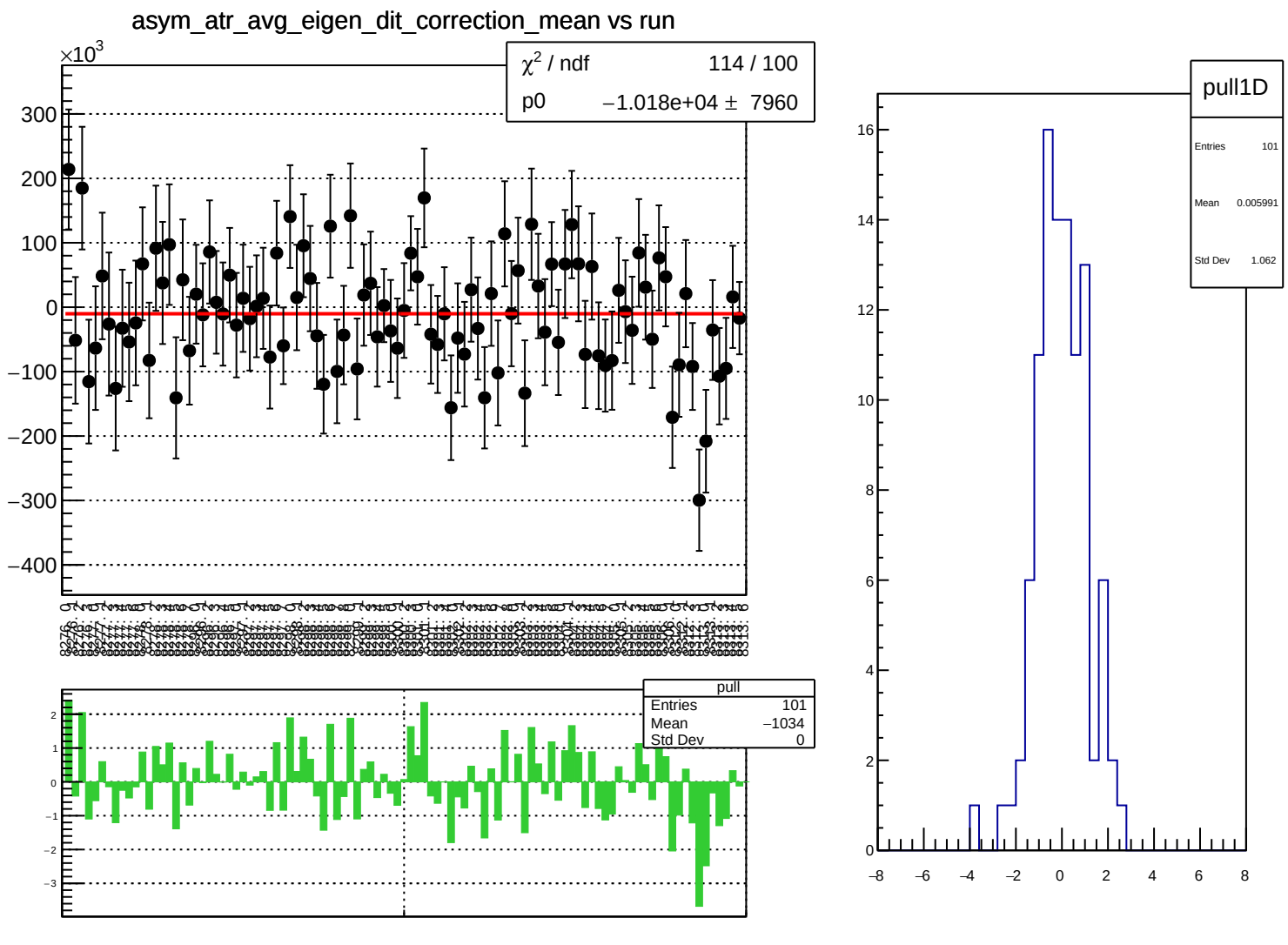
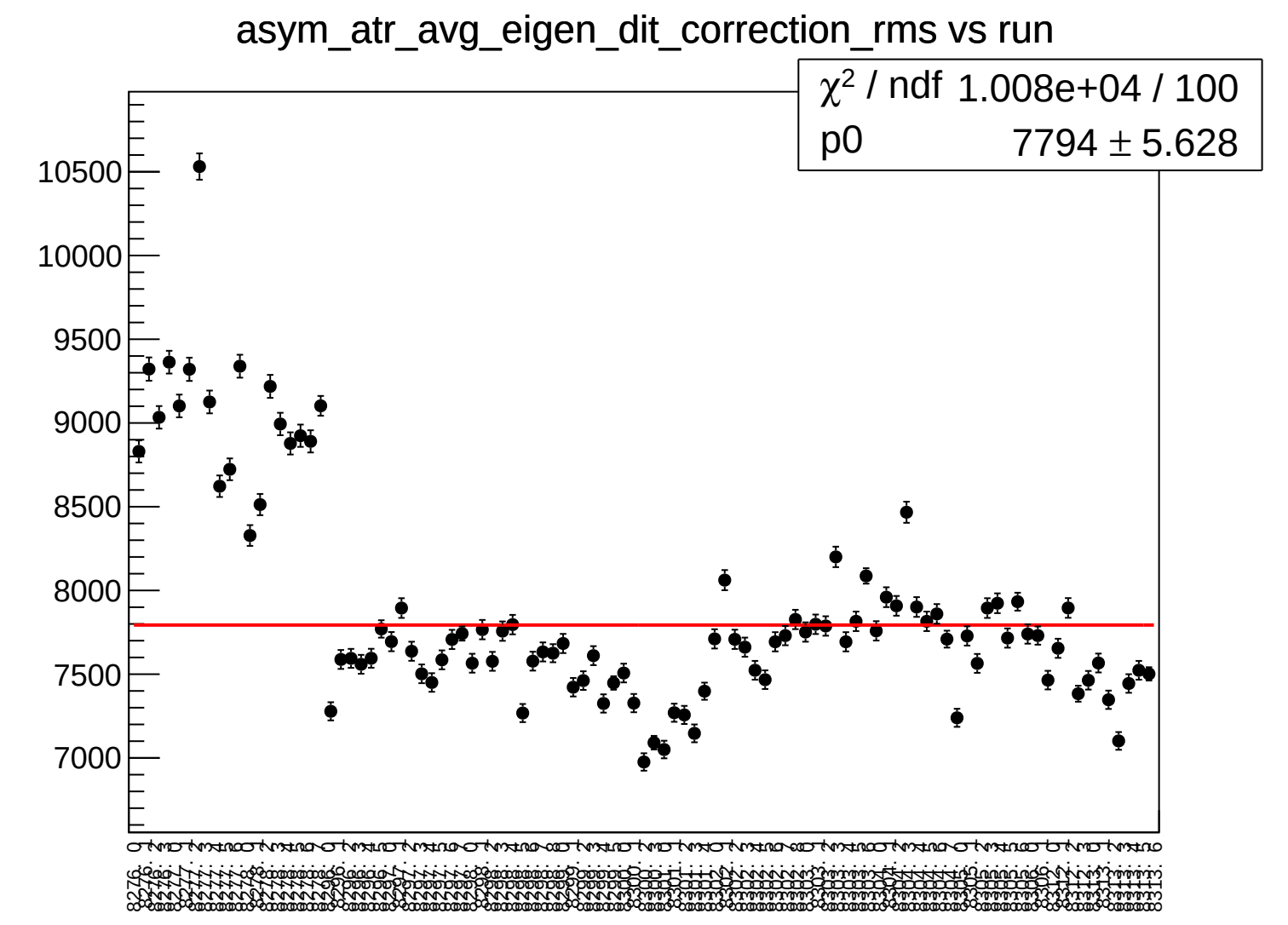
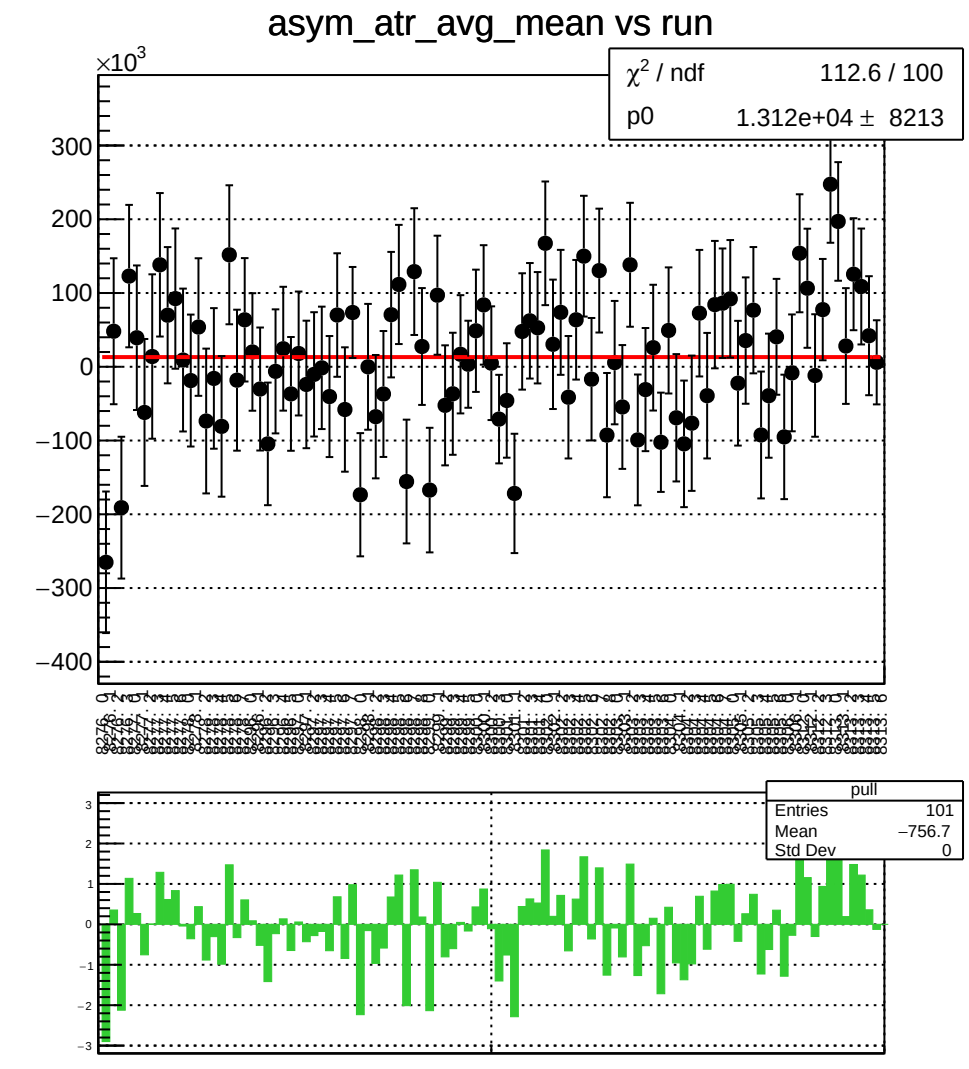
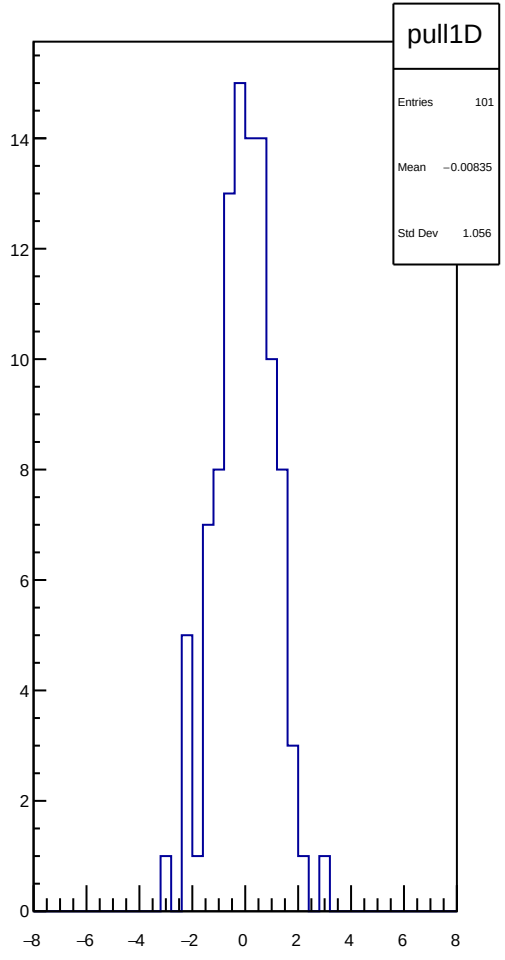
0
2
4
6
8

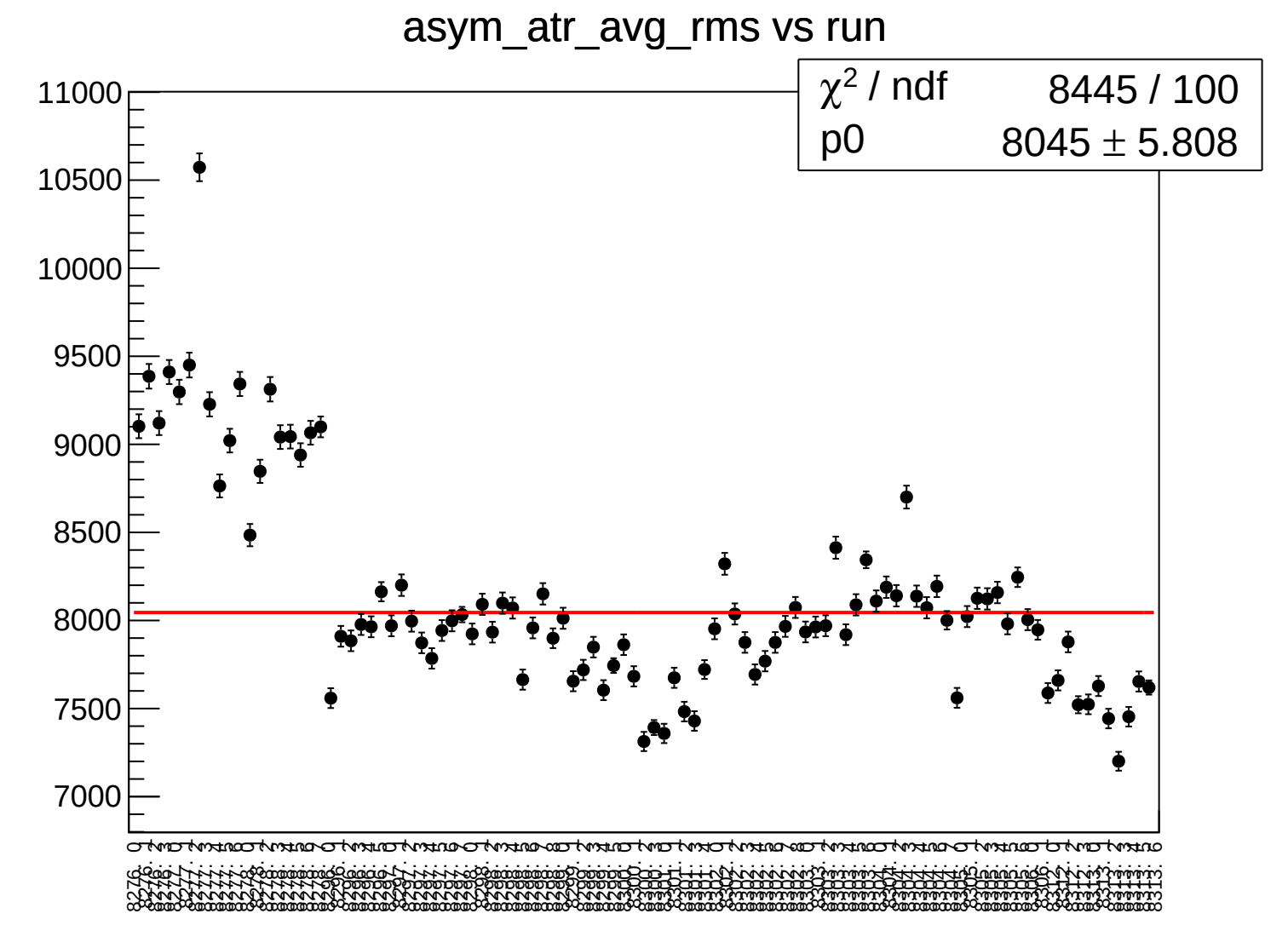

eigen_dit_asym_atr_avg_rms vs run
χ^2 / ndf 507.3 / 100
p0 1993 ± 1.436
2150
2100
2050
2000
1950

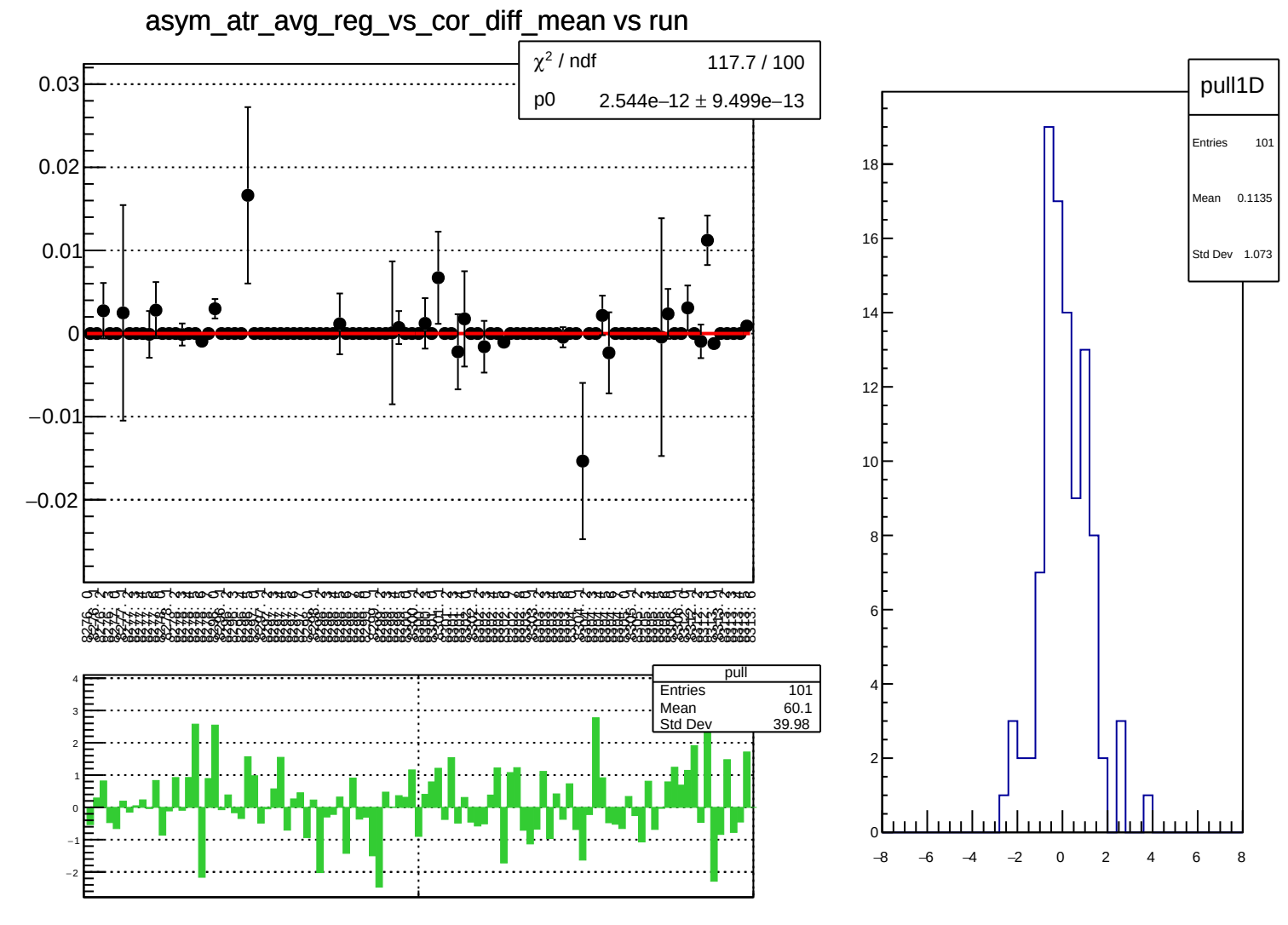

asym_atr_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 114 / 100
p0 −1.018e+04 ± 7960
300
200
100
0
−100
−200
−300
−400
pull
Entries 101
Mean −1034
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.005991
Std Dev 1.062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

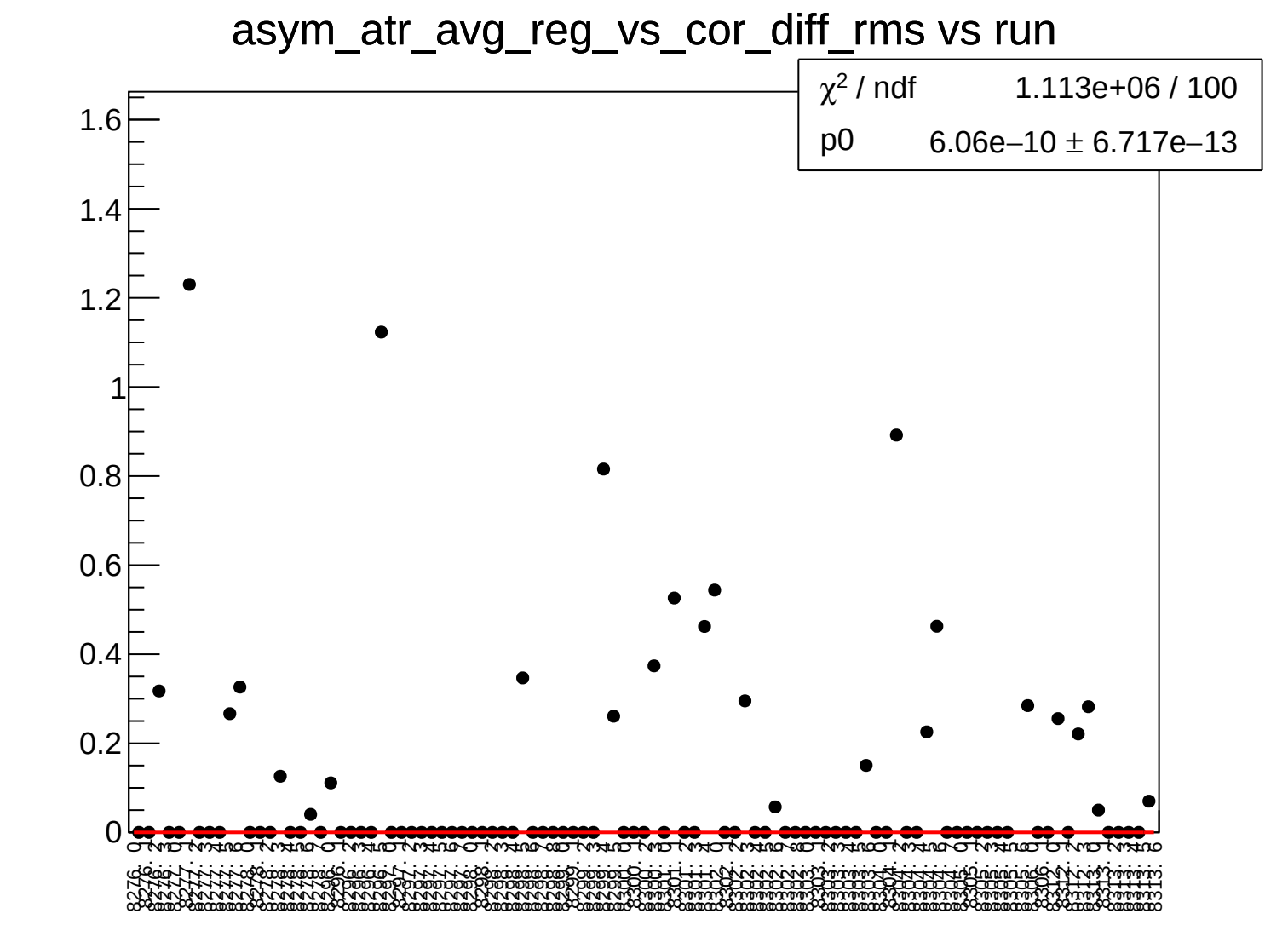

asym_atr_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.008e+04 / 100
p0 7794 ± 5.628
10500
10000
9500
9000
8500
8000
7500
7000

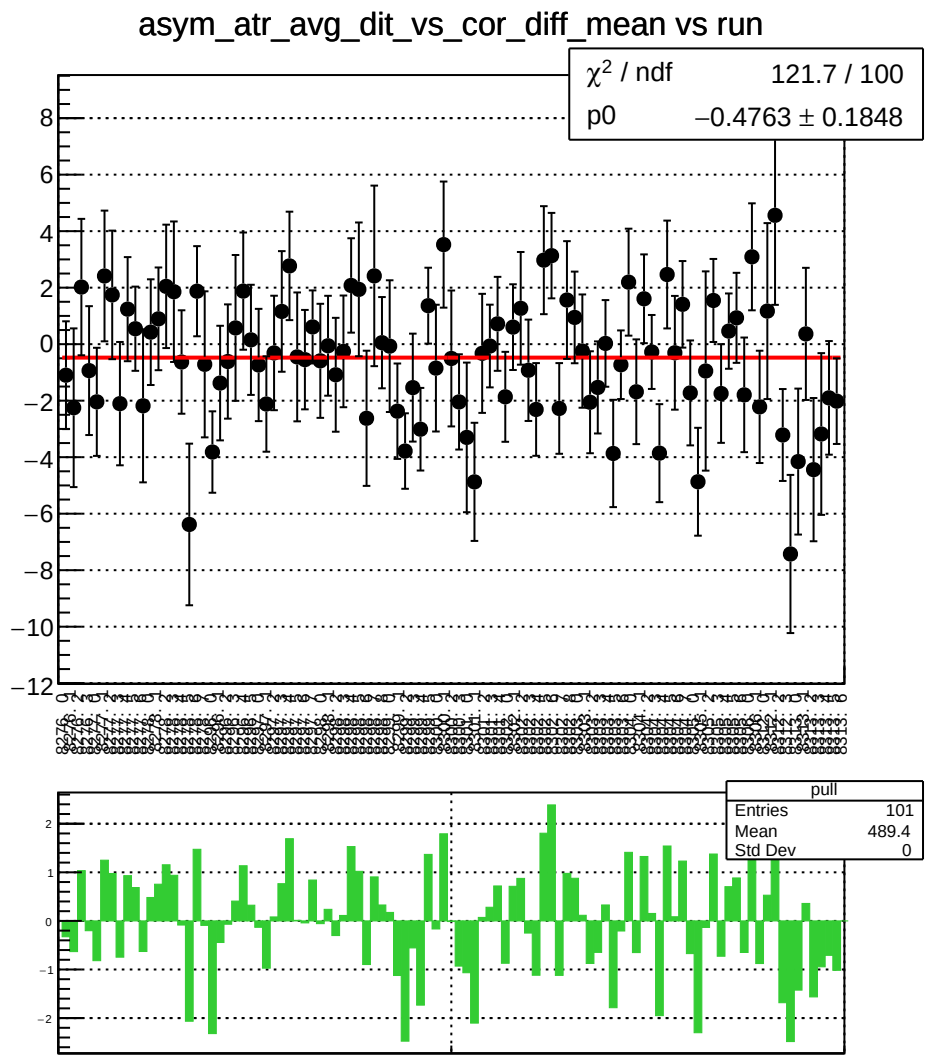

asym_atr_avg_mean vs run
×10^3
χ² / ndf 112.6 / 100
p0 1.312e+04 ± 8213
300
200
100
0
−100
−200
−300
−400
pull
Entries 101
Mean −756.7
Std Dev 0
3
2
1
0
−1
−2
−3

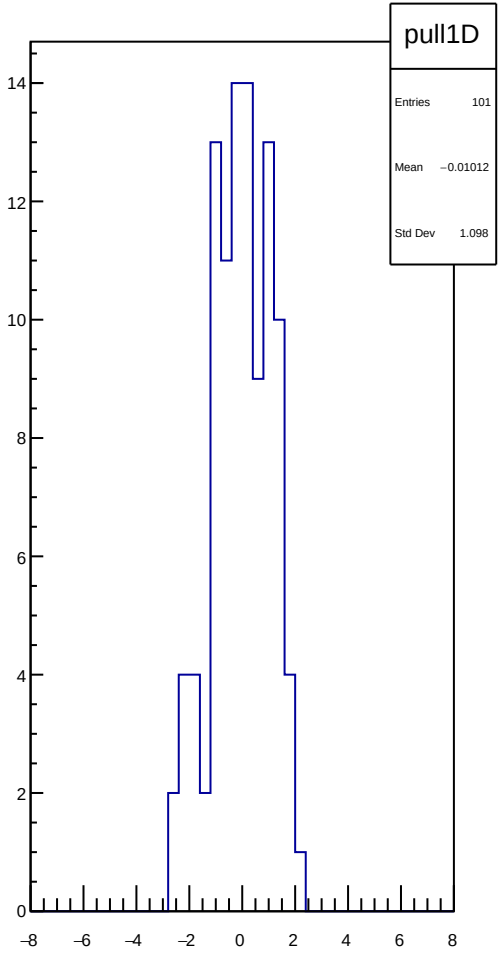

pull1D
Entries 101
Mean −0.00835
Std Dev 1.056
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

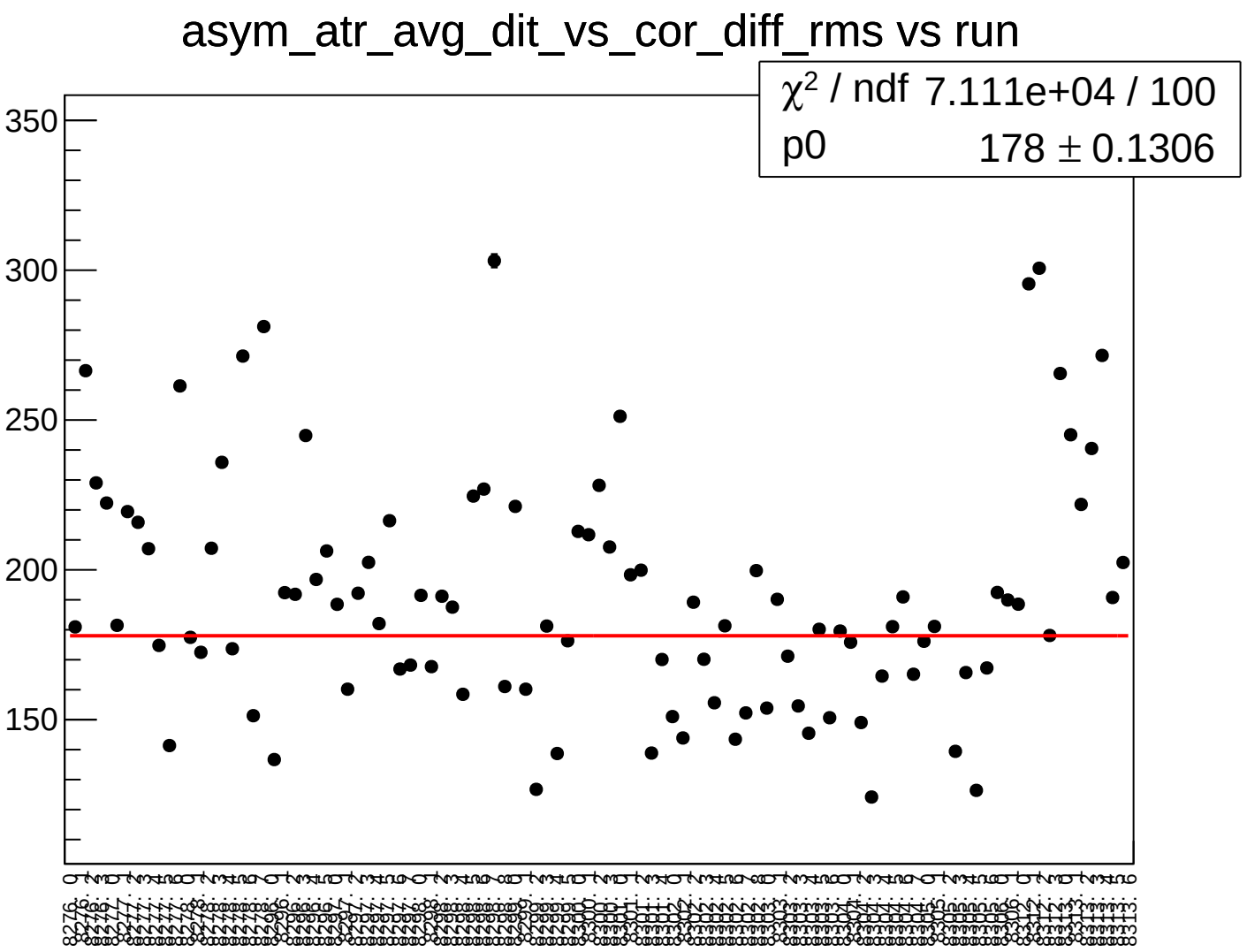

asym_atr_avg_rms vs run
χ^2 / ndf 8445 / 100
p0 8045 ± 5.808
11000
10500
10000
9500
9000
8500
8000
7500
7000

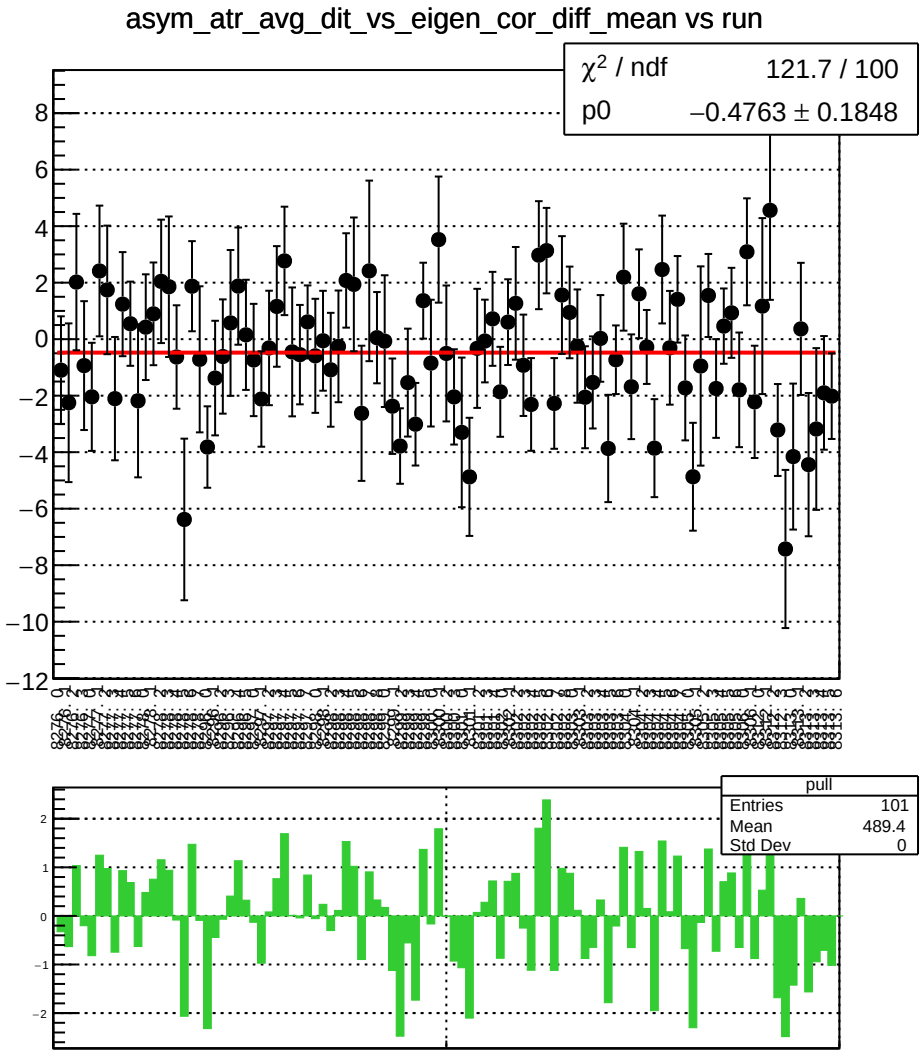

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 117.7 / 100
p0 2.544e−12 ± 9.499e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 101
Mean 60.1
Std Dev 39.98
4
3
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.1135
Std Dev 1.073
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

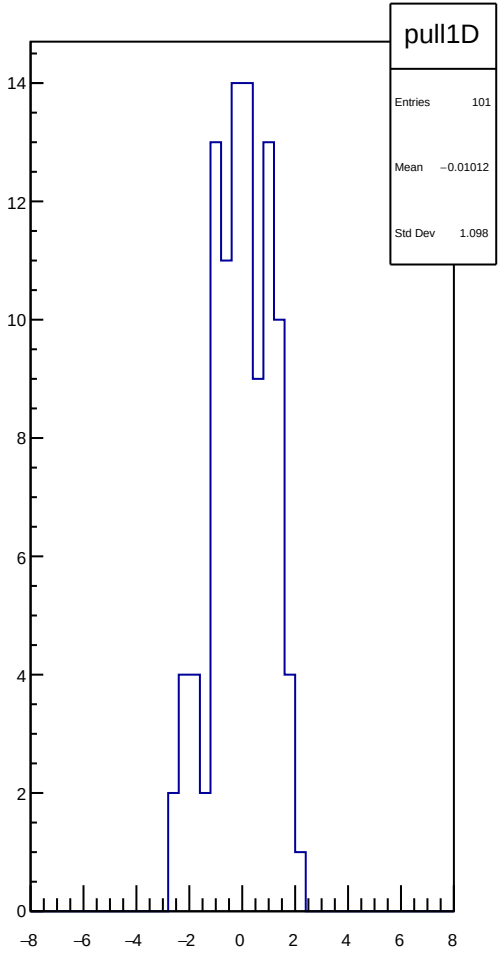

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.113e+06 / 100
p0 6.06e−10 ± 6.717e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

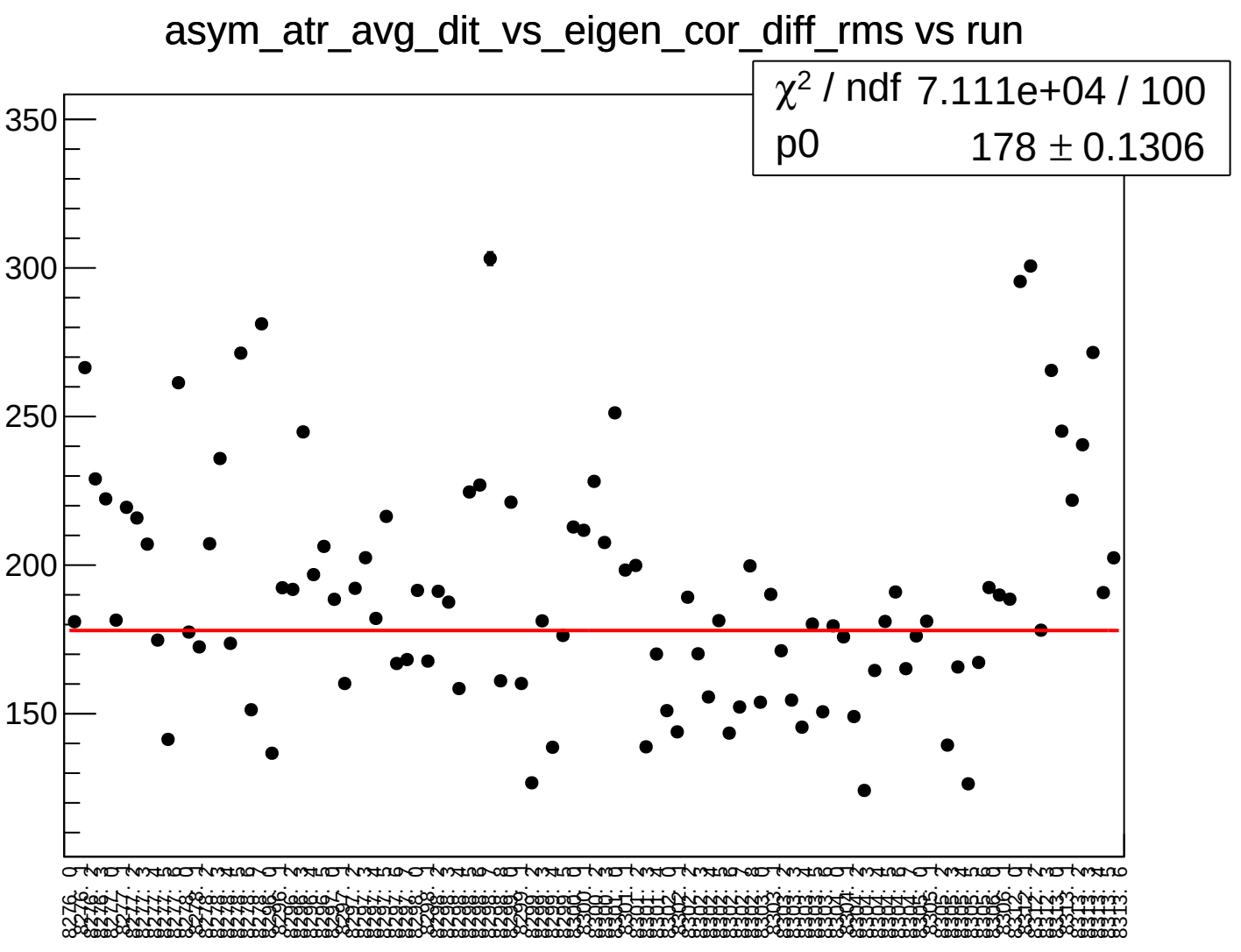

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 121.7 / 100
p0 −0.4763 ± 0.1848
pull
Entries 101
Mean 489.4
Std Dev 0

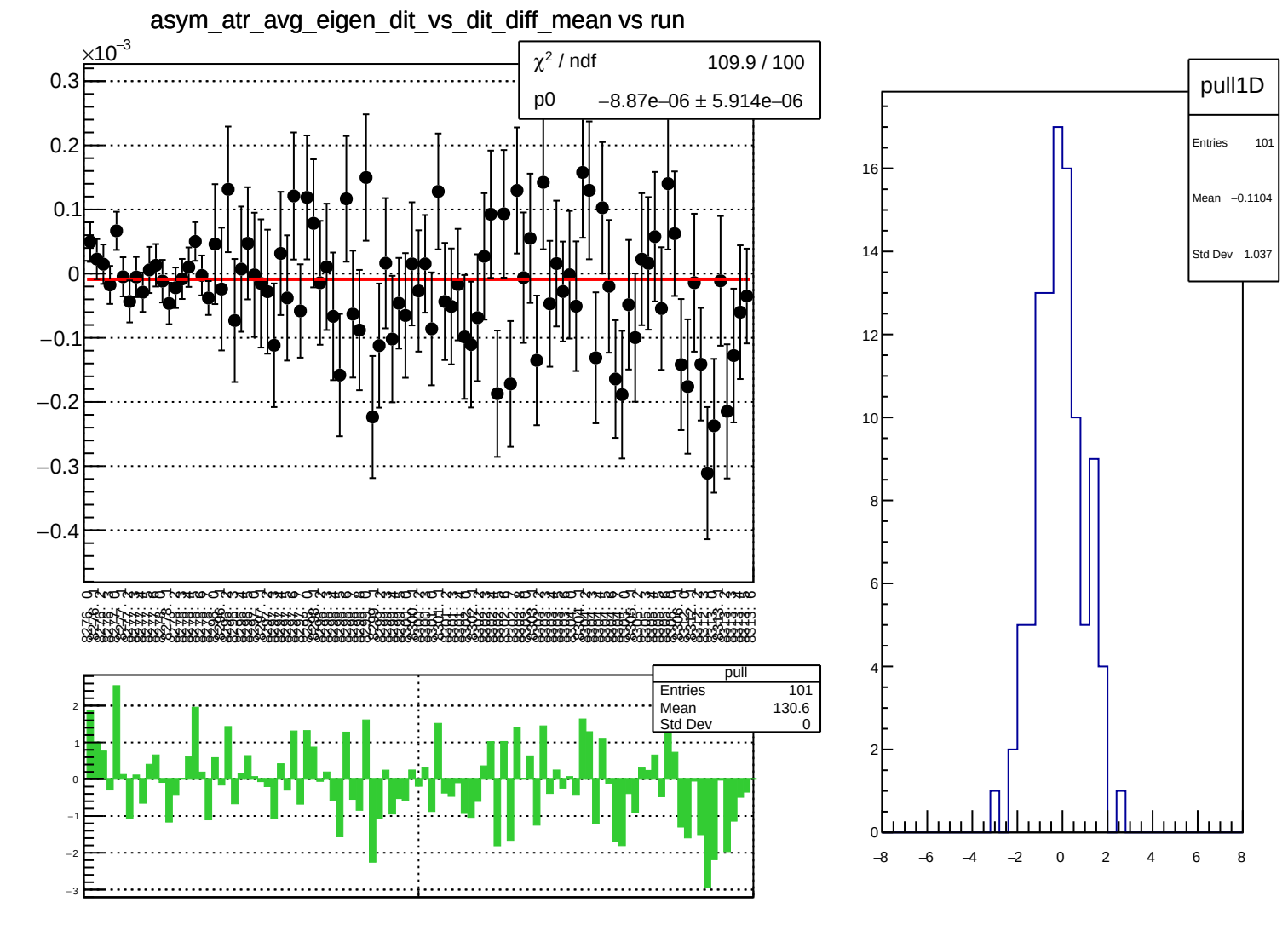

pull1D
Entries 101
Mean −0.01012
Std Dev 1.098

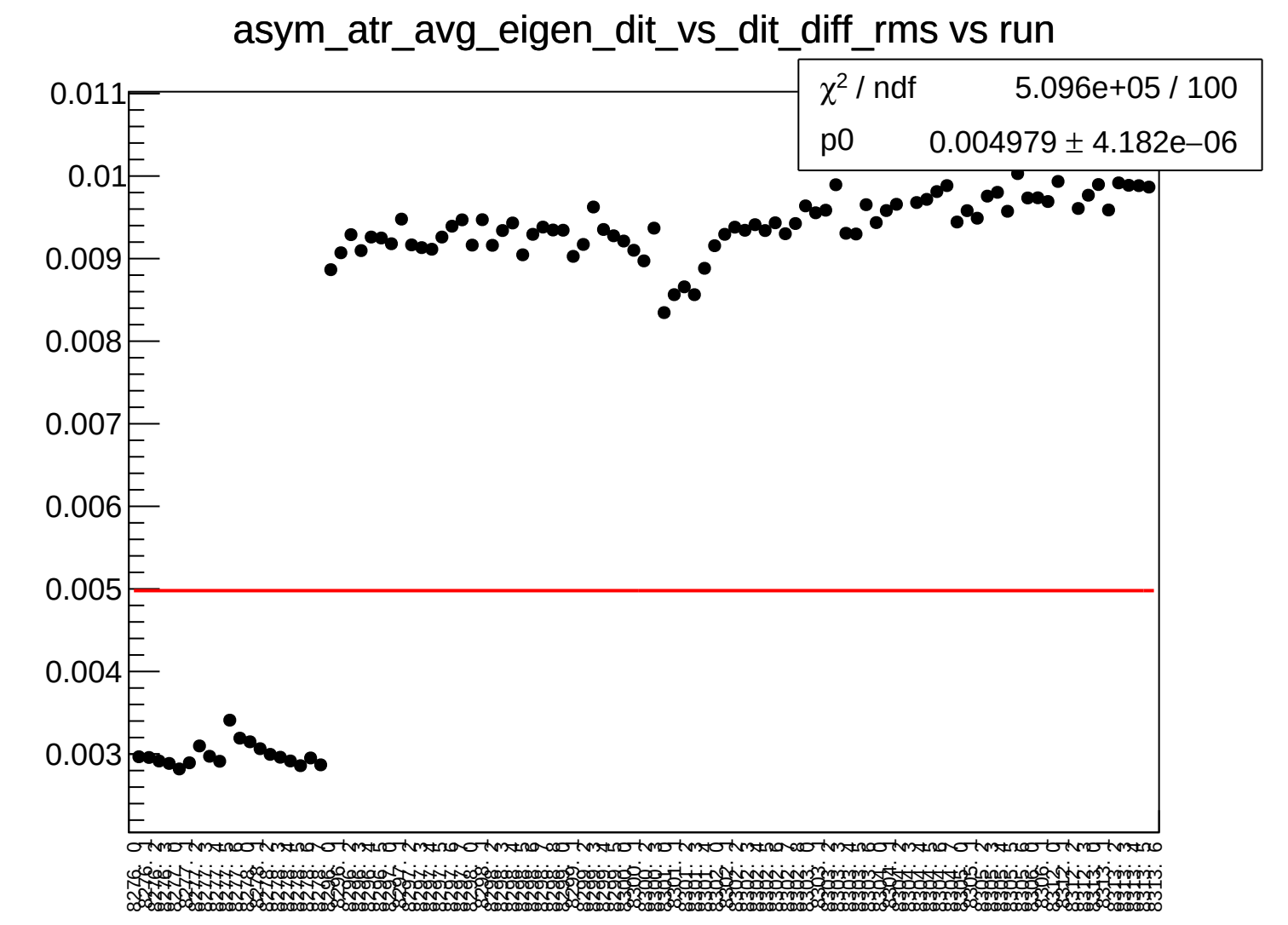

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.111e+04 / 100
p0 178 ± 0.1306
350
300
250
200
150

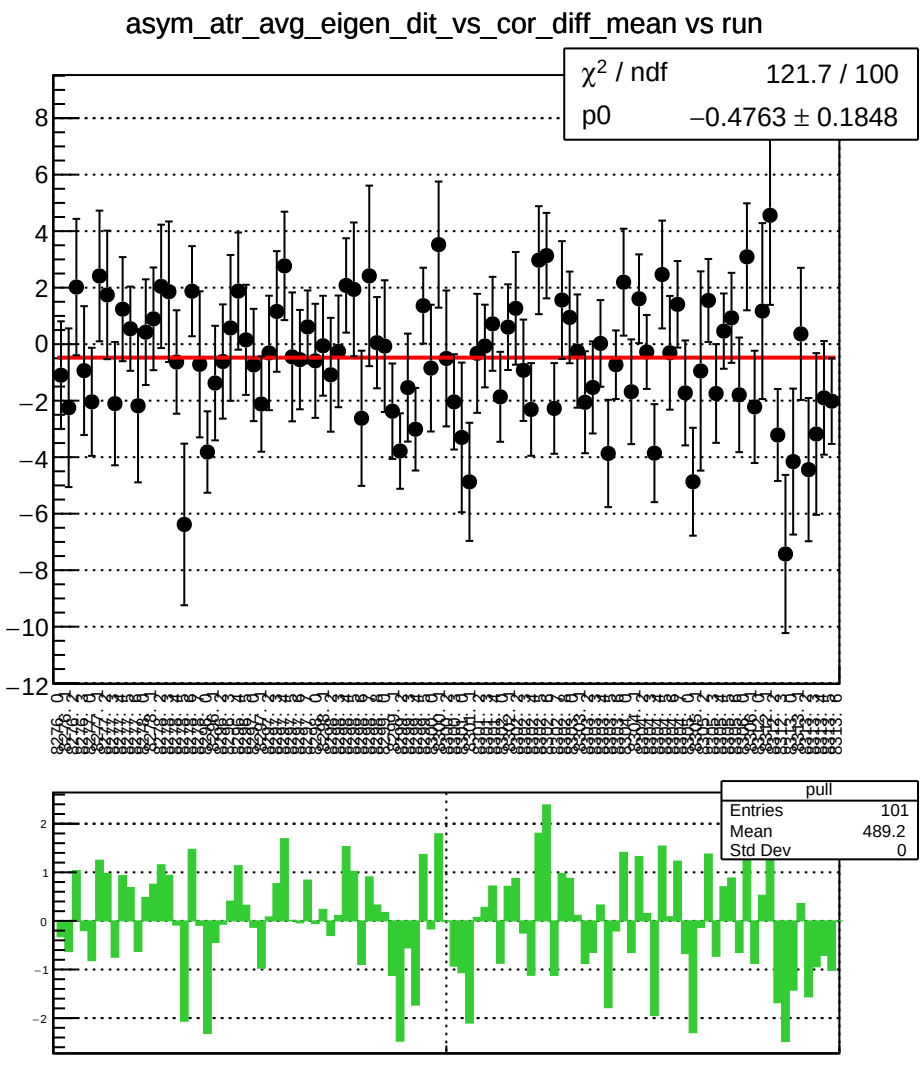

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 121.7 / 100
p0 −0.4763 ± 0.1848
pull
Entries 101
Mean 489.4
Std Dev 0

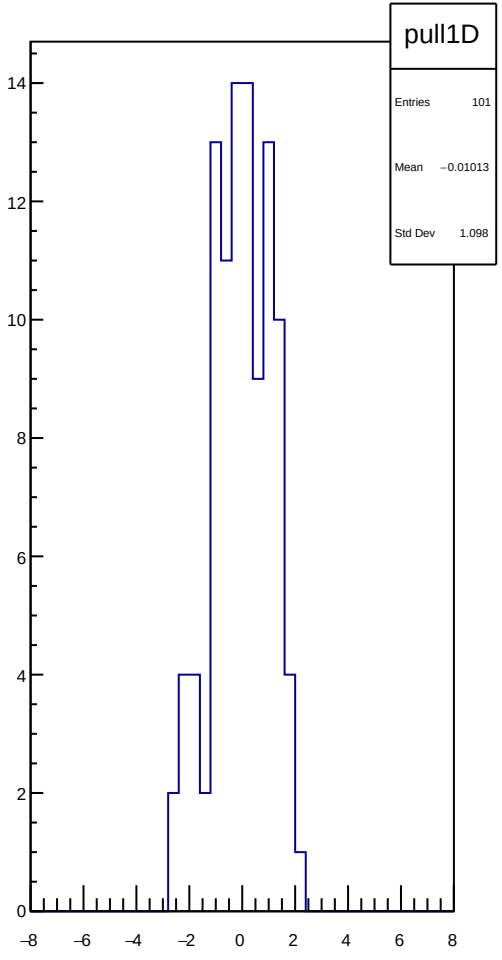

pull1D
Entries 101
Mean −0.01012
Std Dev 1.098

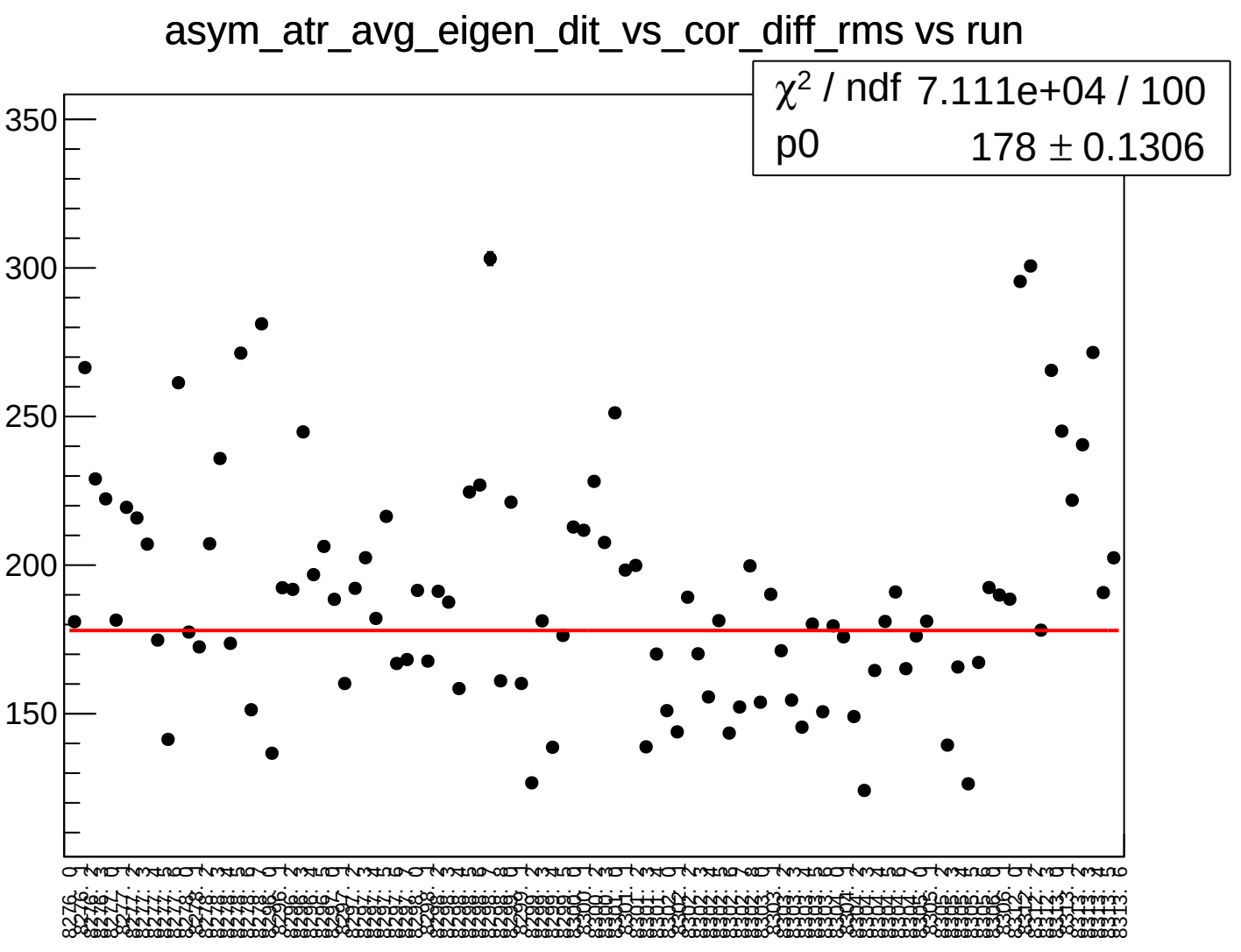

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.111e+04 / 100
p0 178 ± 0.1306
350
300
250
200
150

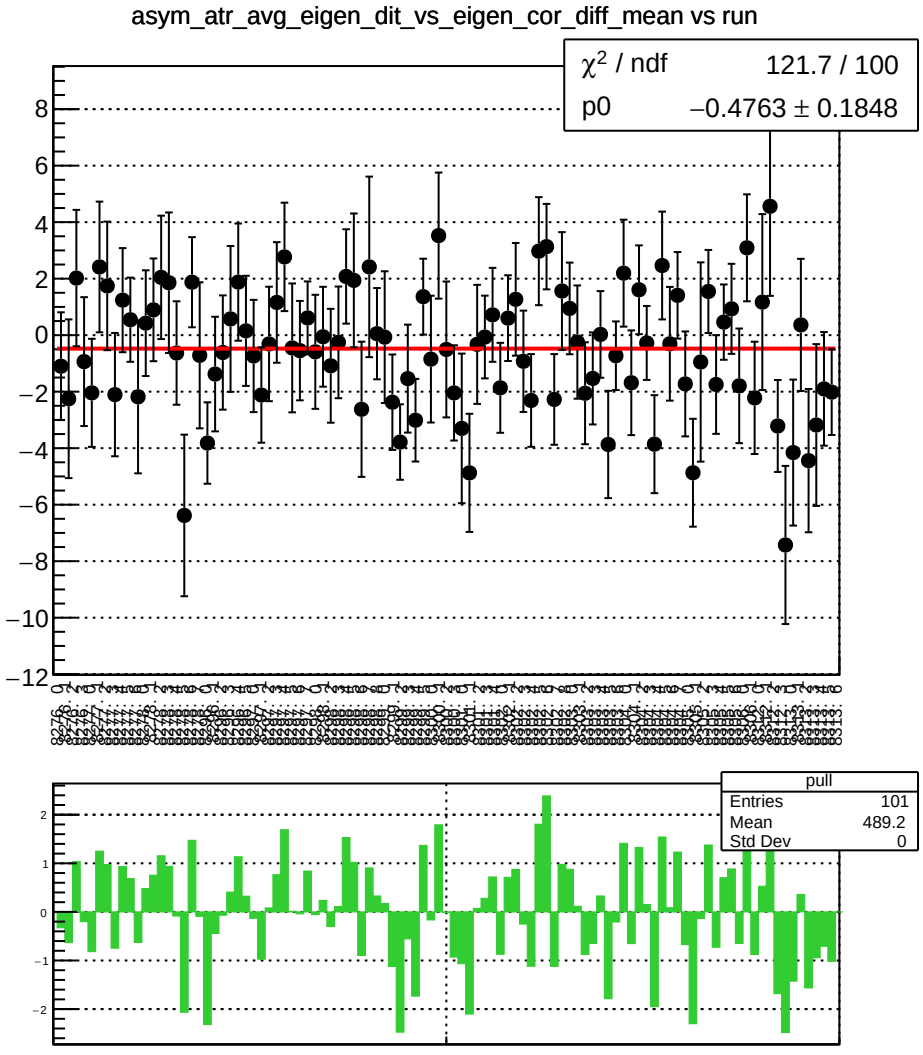

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 109.9 / 100
p0 −8.87e−06 ± 5.914e−06
pull
Entries 101
Mean 130.6
Std Dev 0
pull1D
Entries 101
Mean −0.1104
Std Dev 1.037

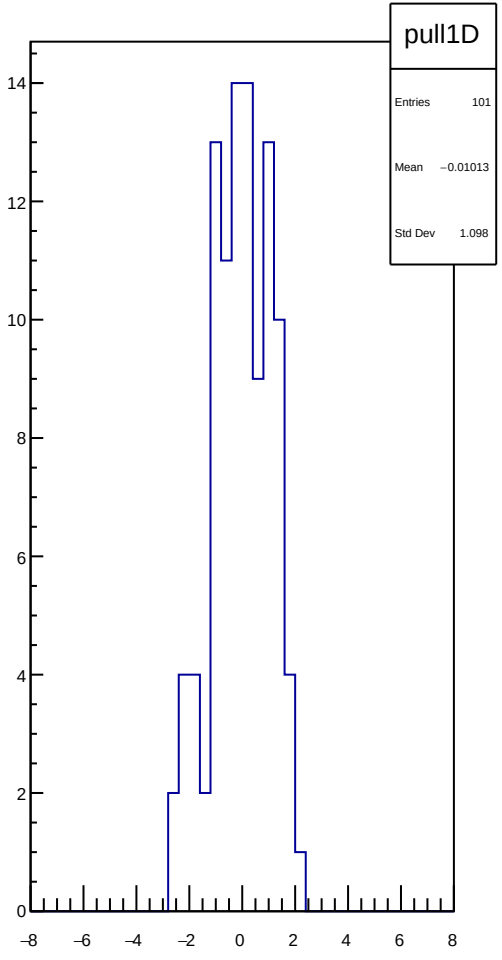

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.096e+05 / 100
p0 0.004979 ± 4.182e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

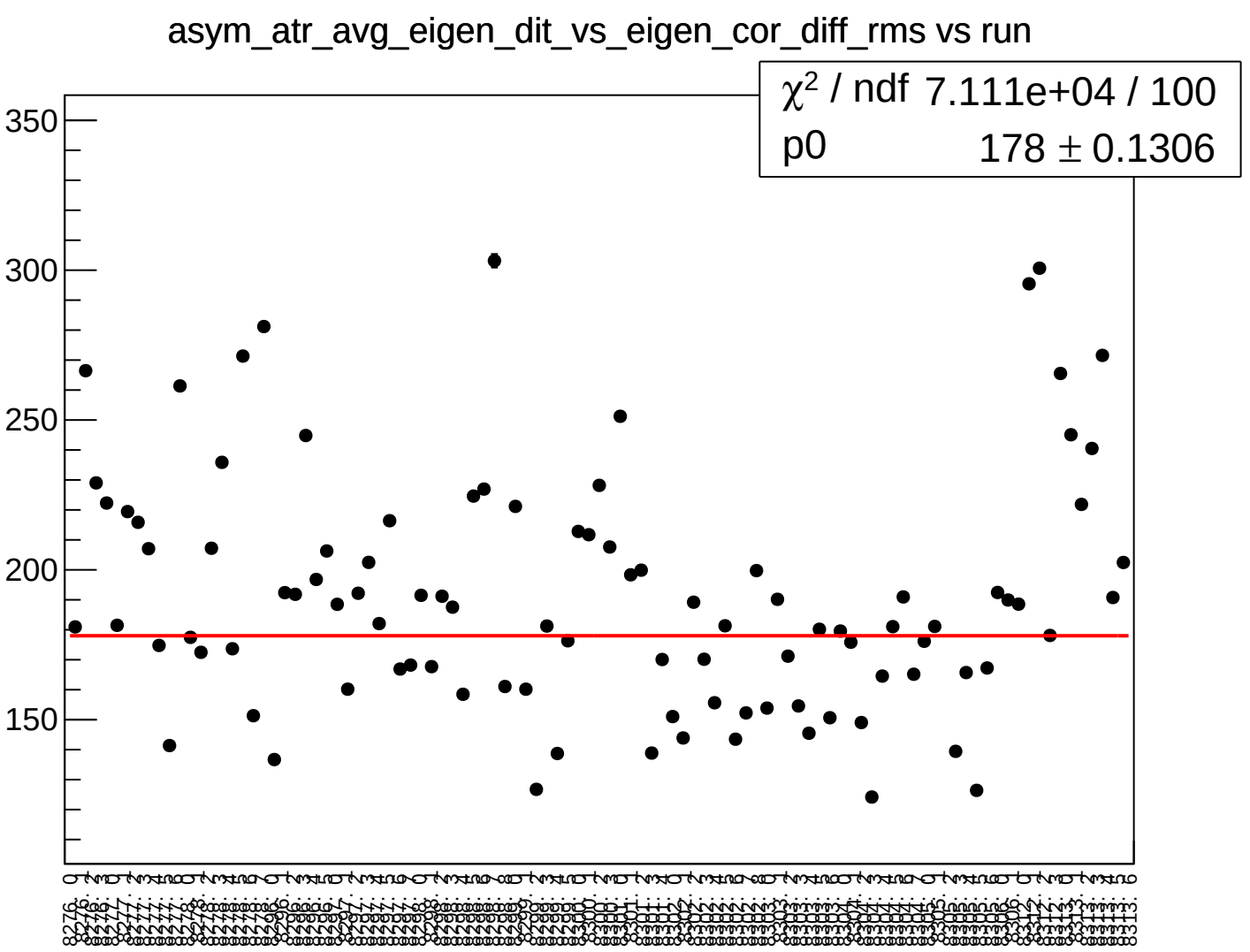

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 121.7 / 100
p0 −0.4763 ± 0.1848
pull
Entries 101
Mean 489.2
Std Dev 0

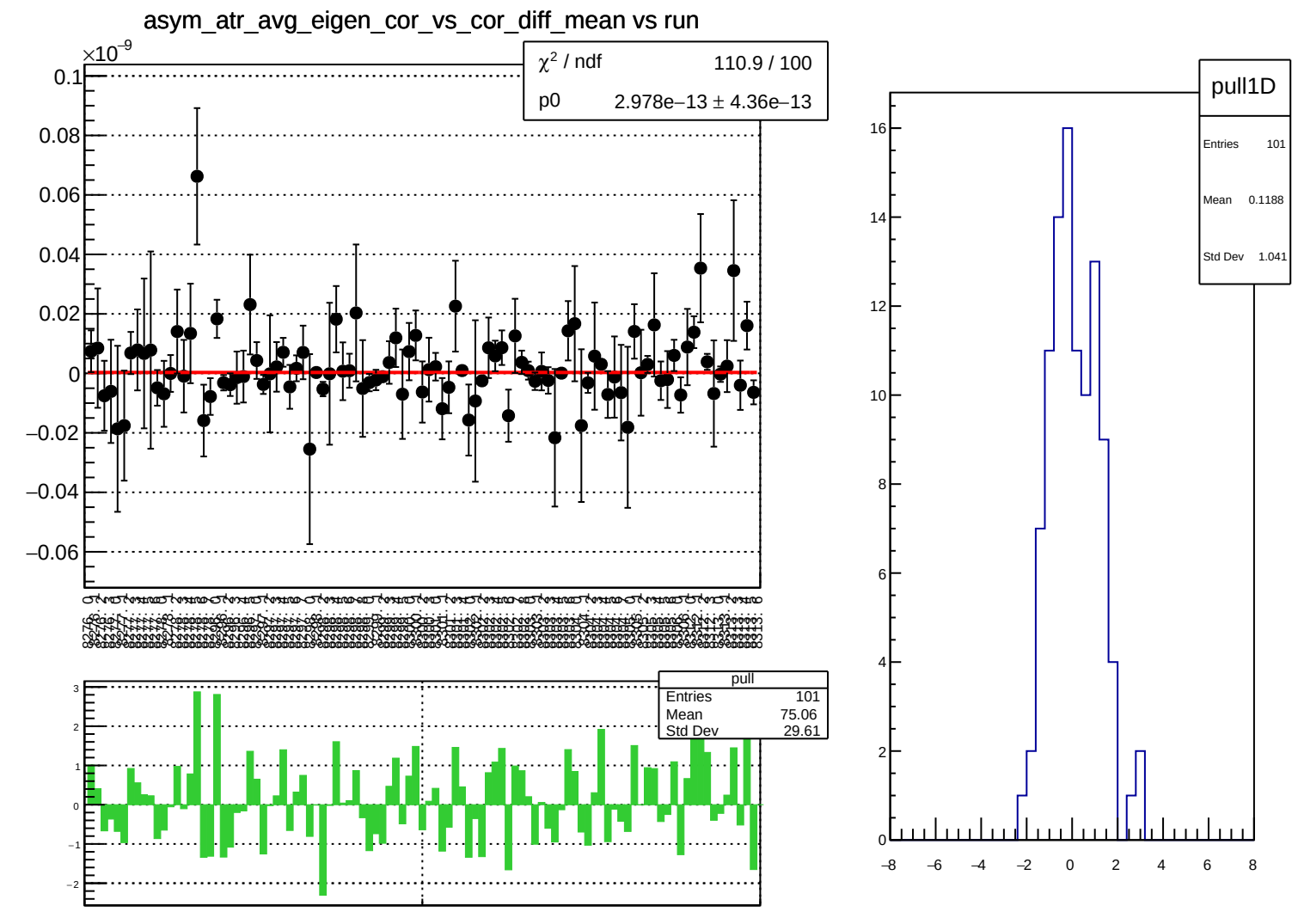

pull1D
Entries 101
Mean −0.01013
Std Dev 1.098

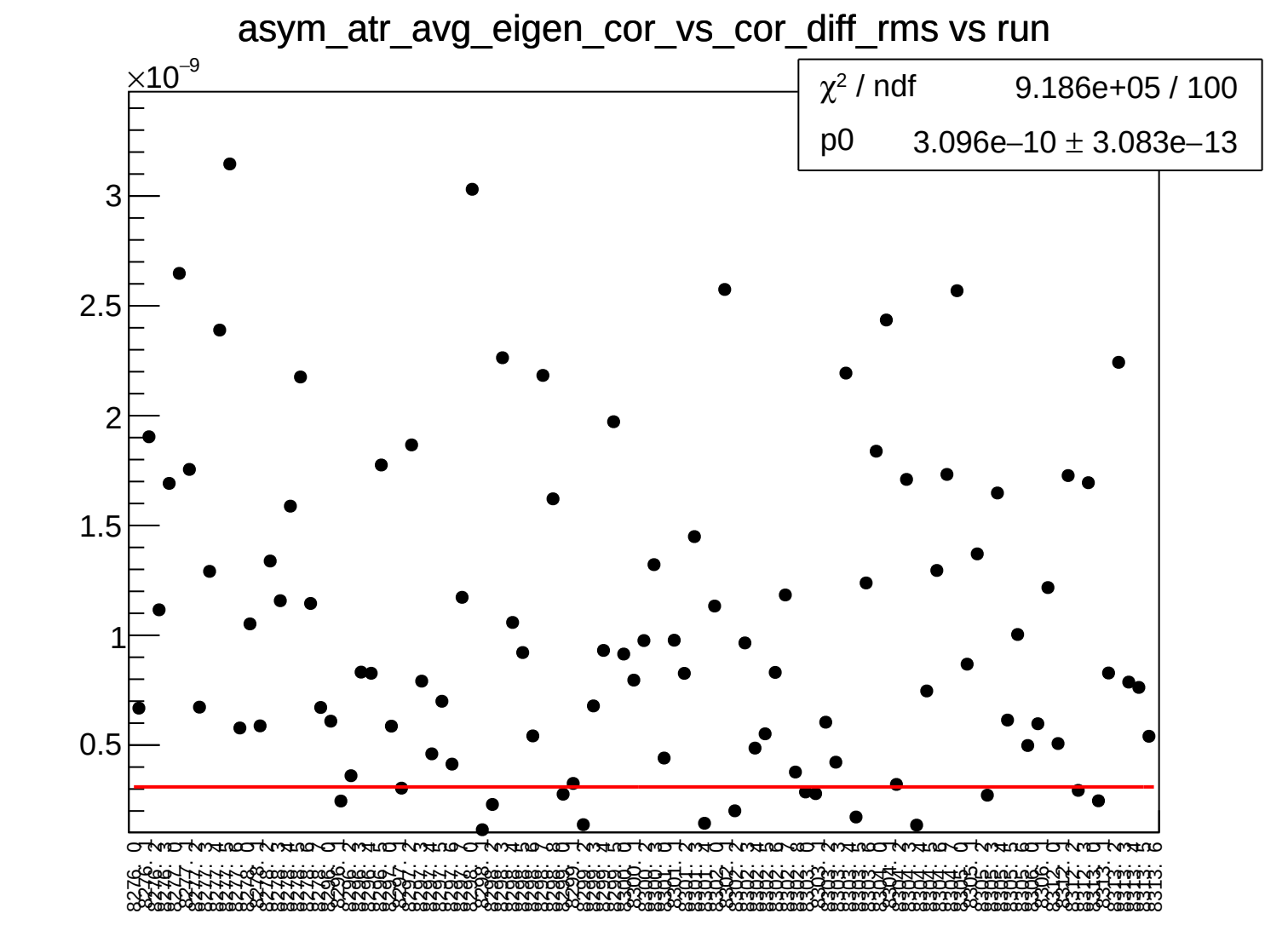

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.111e+04 / 100
p0 178 ± 0.1306
350
300
250
200
150

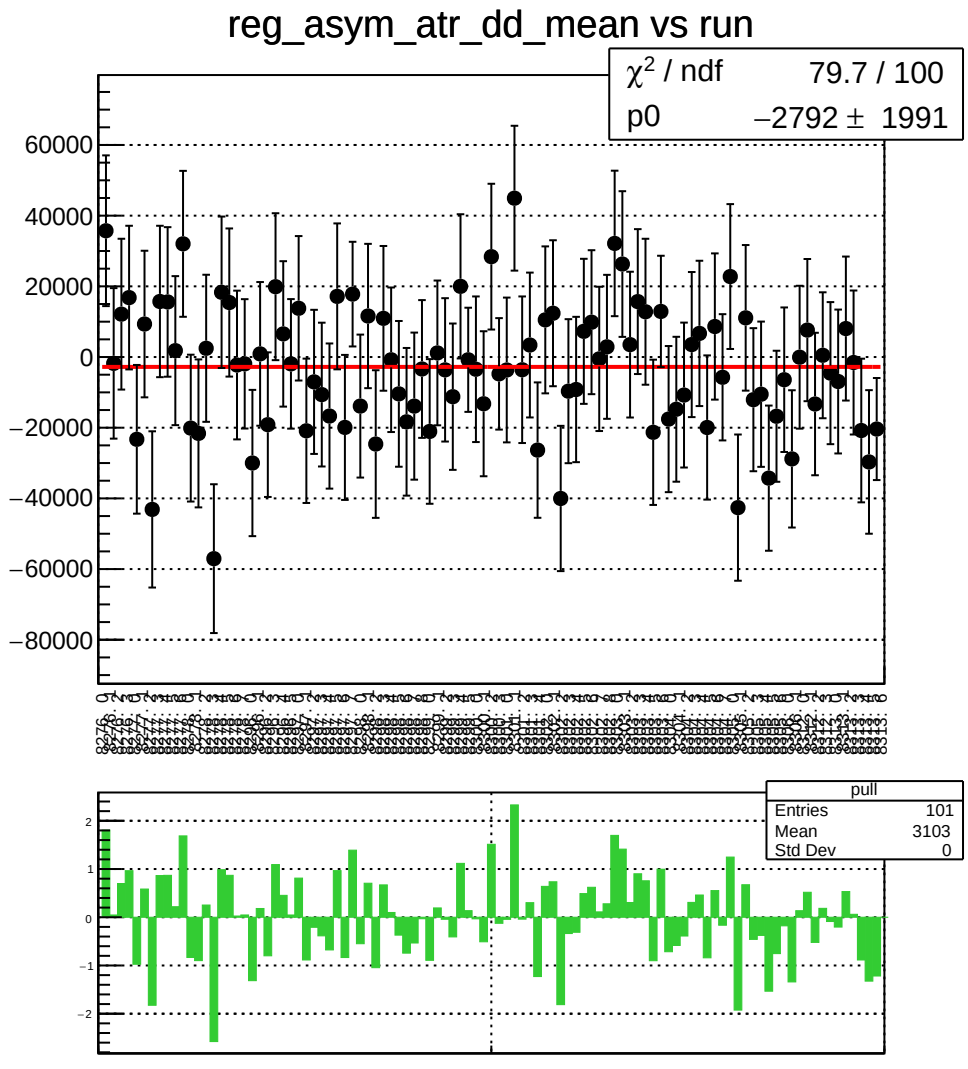

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 121.7 / 100
p0 −0.4763 ± 0.1848
pull
Entries 101
Mean 489.2
Std Dev 0

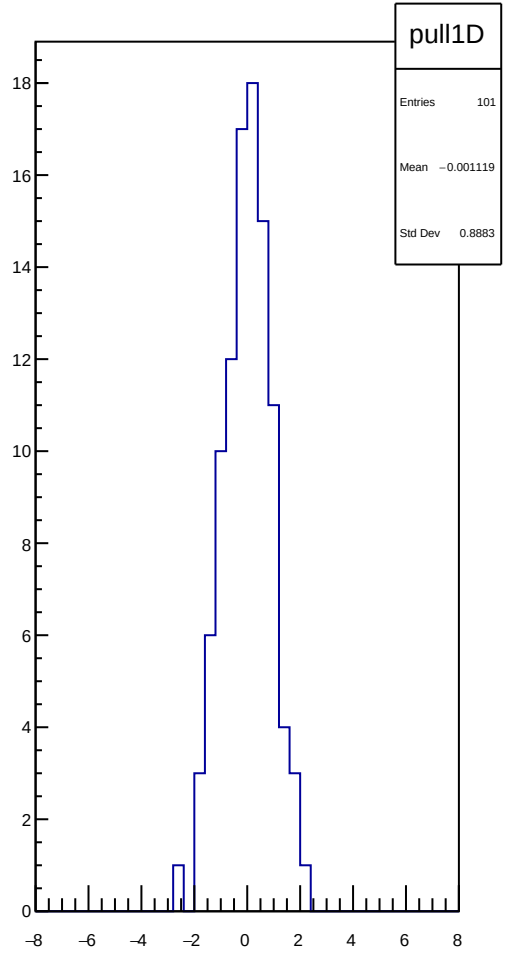

pull1D
Entries 101
Mean −0.01013
Std Dev 1.098

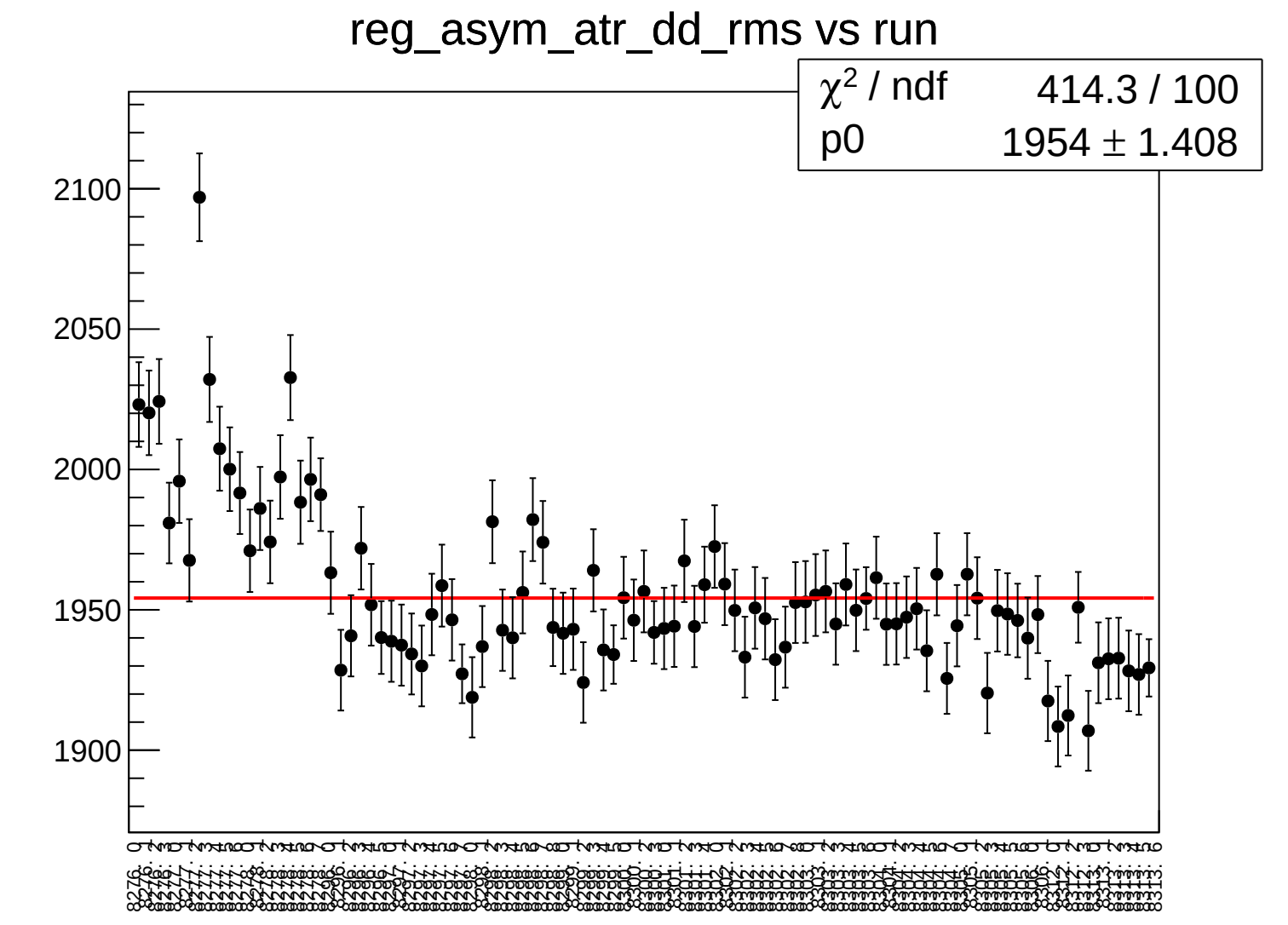

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.111e+04 / 100
p0 178 ± 0.1306
350
300
250
200
150

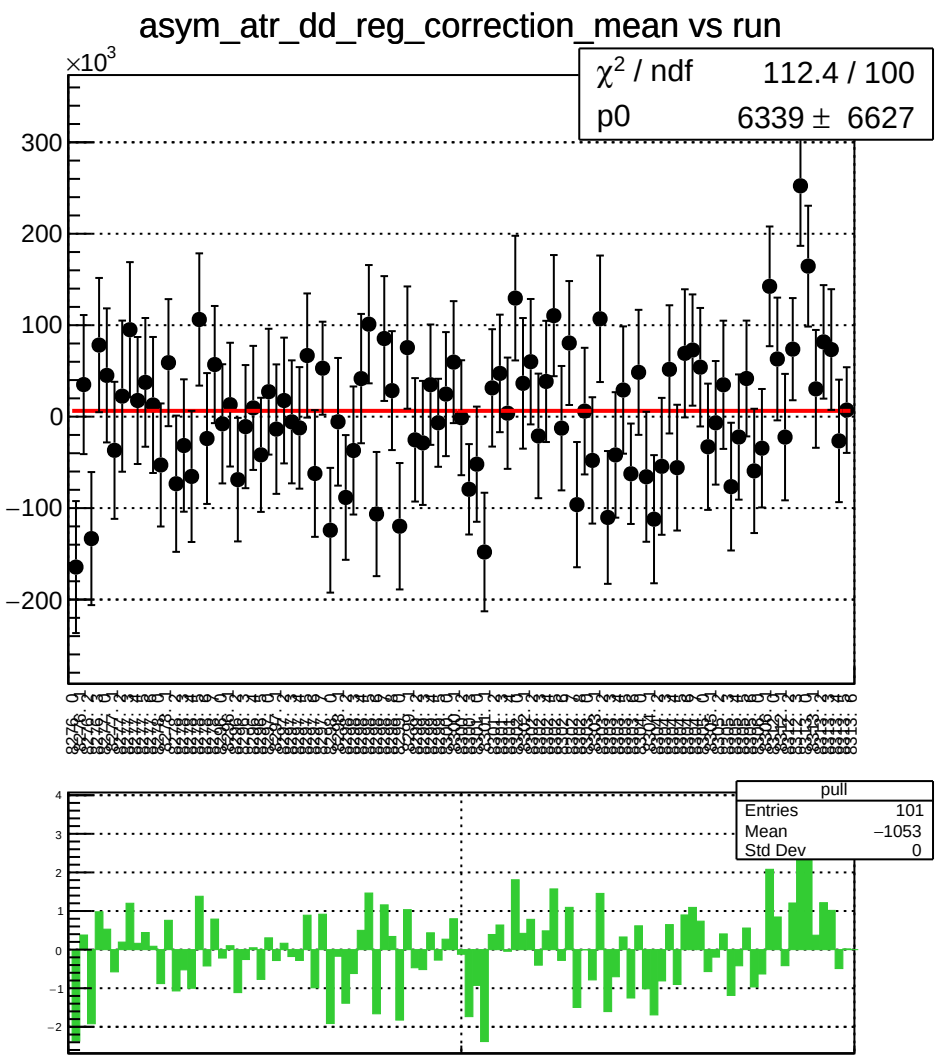

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 110.9 / 100
p0 2.978e−13 ± 4.36e−13
pull
Entries 101
Mean 75.06
Std Dev 29.61
pull1D
Entries 101
Mean 0.1188
Std Dev 1.041

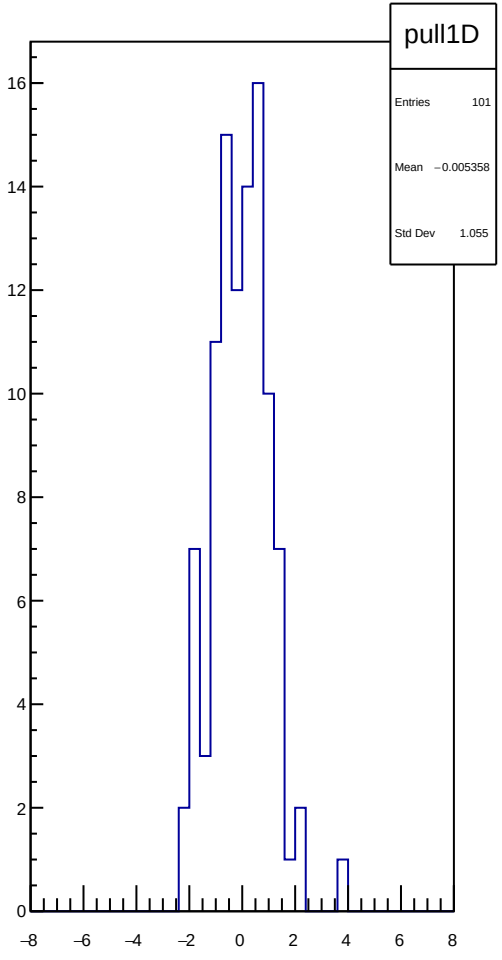

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.186e+05 / 100
p0 3.096e−10 ± 3.083e−13
3
2.5
2
1.5
1
0.5

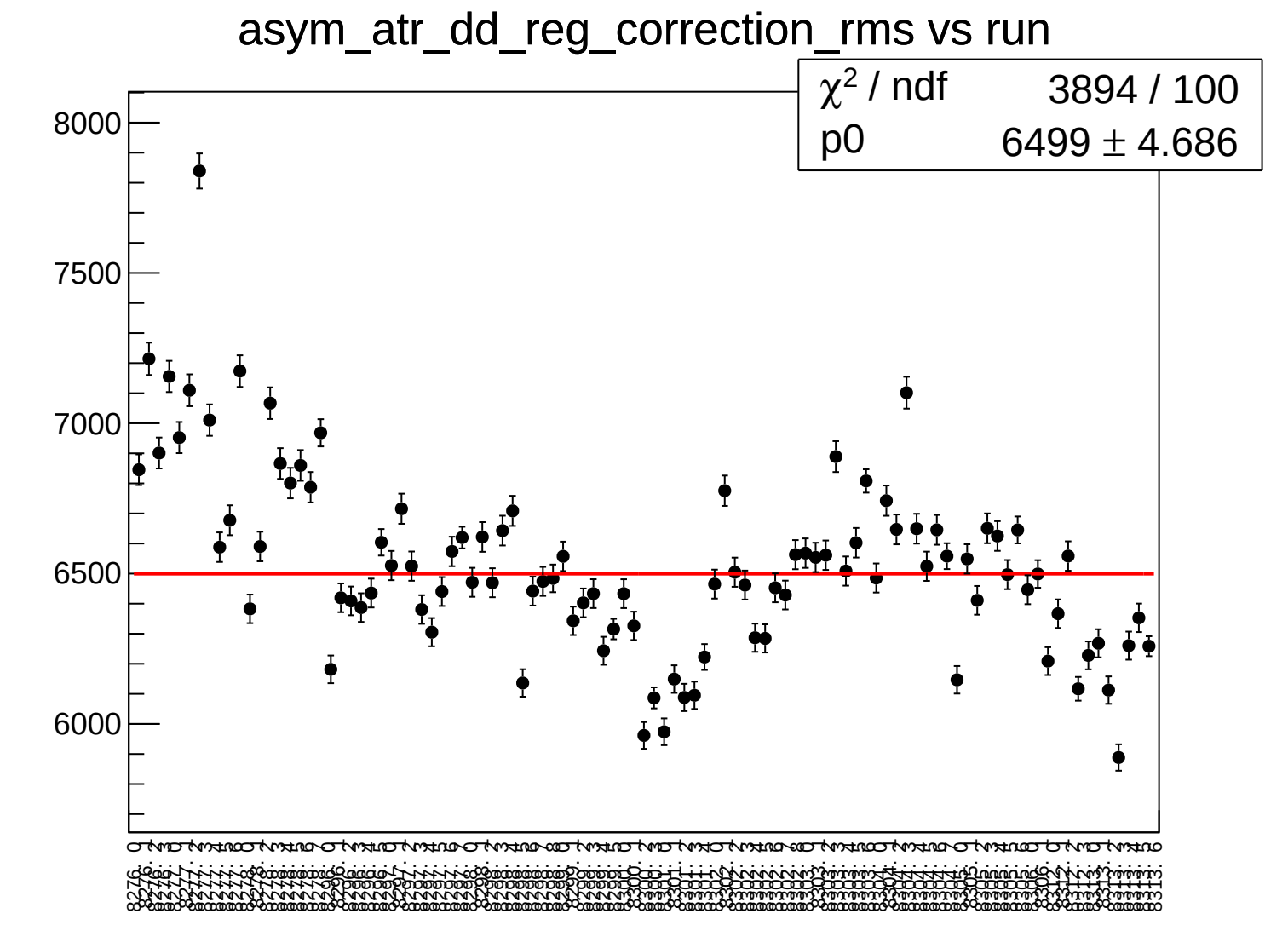

reg_asym_atr_dd_mean vs run
χ² / ndf 79.7 / 100
p0 −2792 ± 1991
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 101
Mean 3103
Std Dev 0
2
1
0
−1
−2

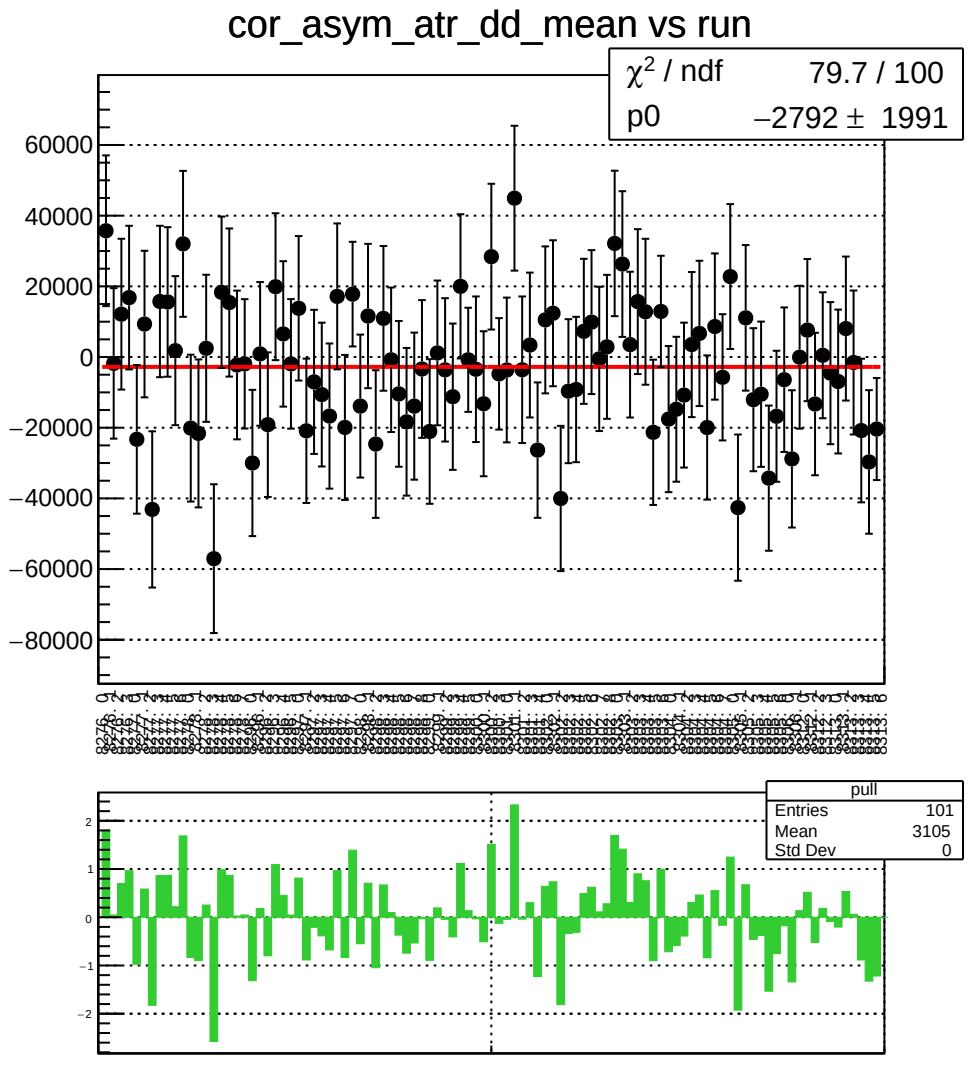

pull1D
Entries 101
Mean −0.001119
Std Dev 0.8883
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

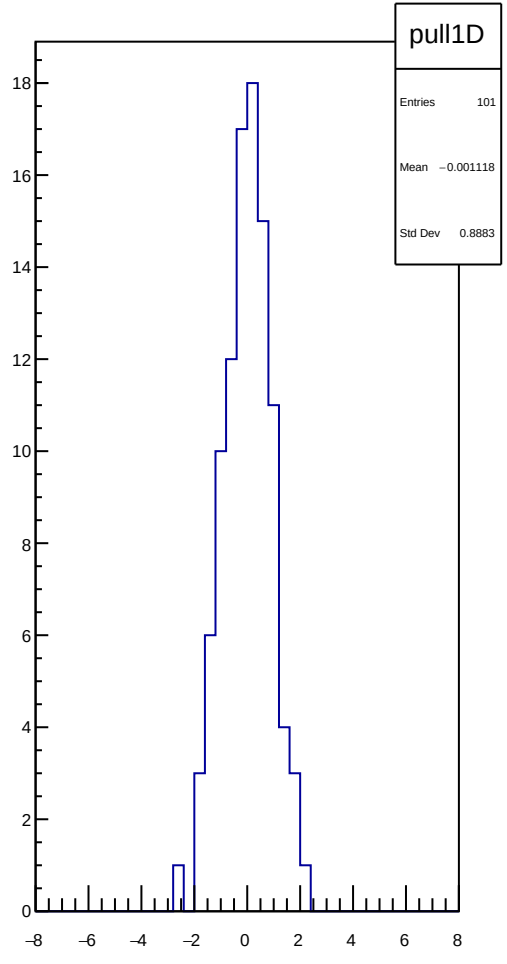

reg_asym_atr_dd_rms vs run
χ^2 / ndf 414.3 / 100
p0 1954 ± 1.408
2100
2050
2000
1950
1900

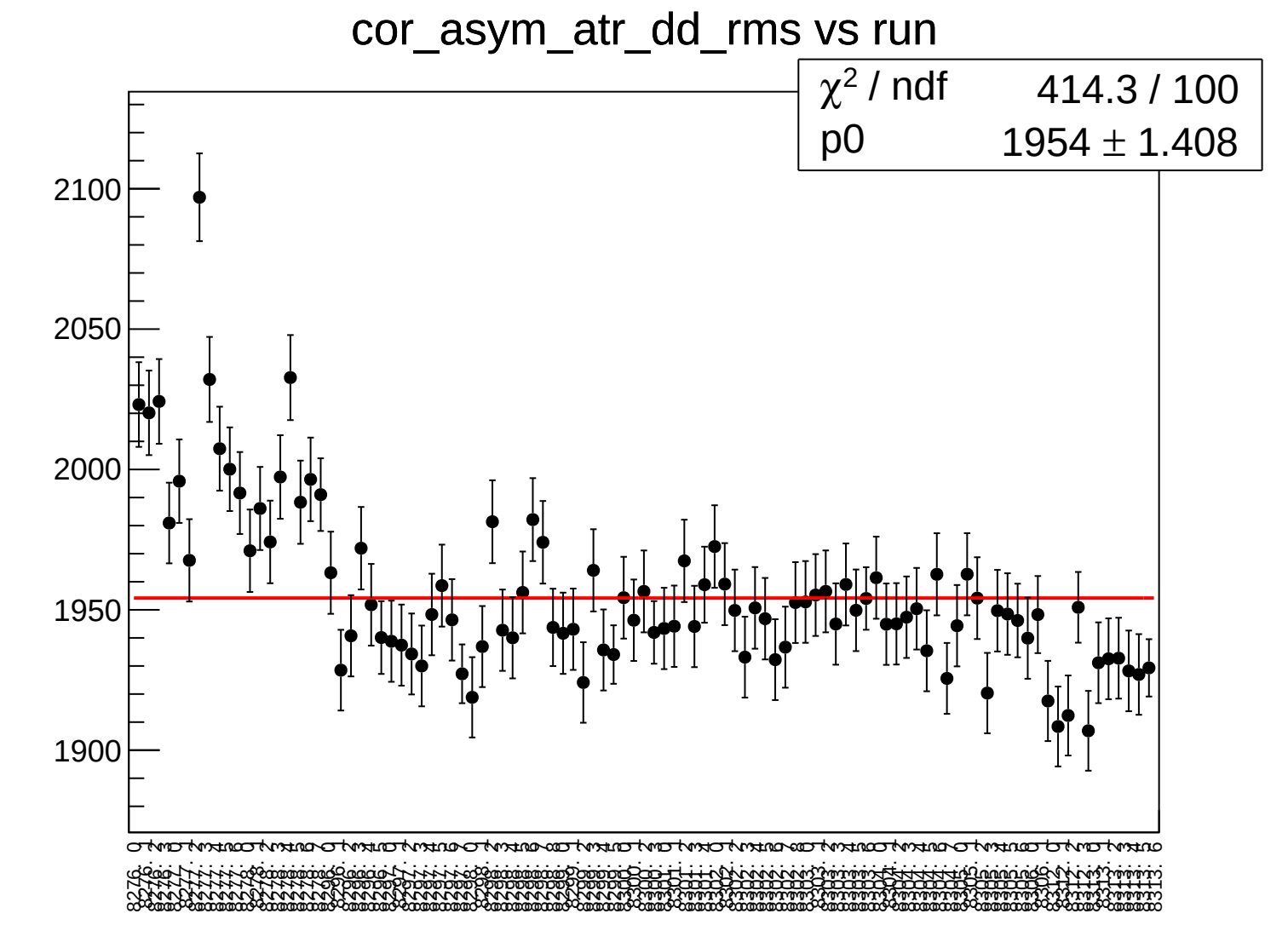

asym_atr_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 112.4 / 100
p0 6339 ± 6627
300
200
100
0
−100
−200
pull
Entries 101
Mean −1053
Std Dev 0
4
3
2
1
0
−1
−2

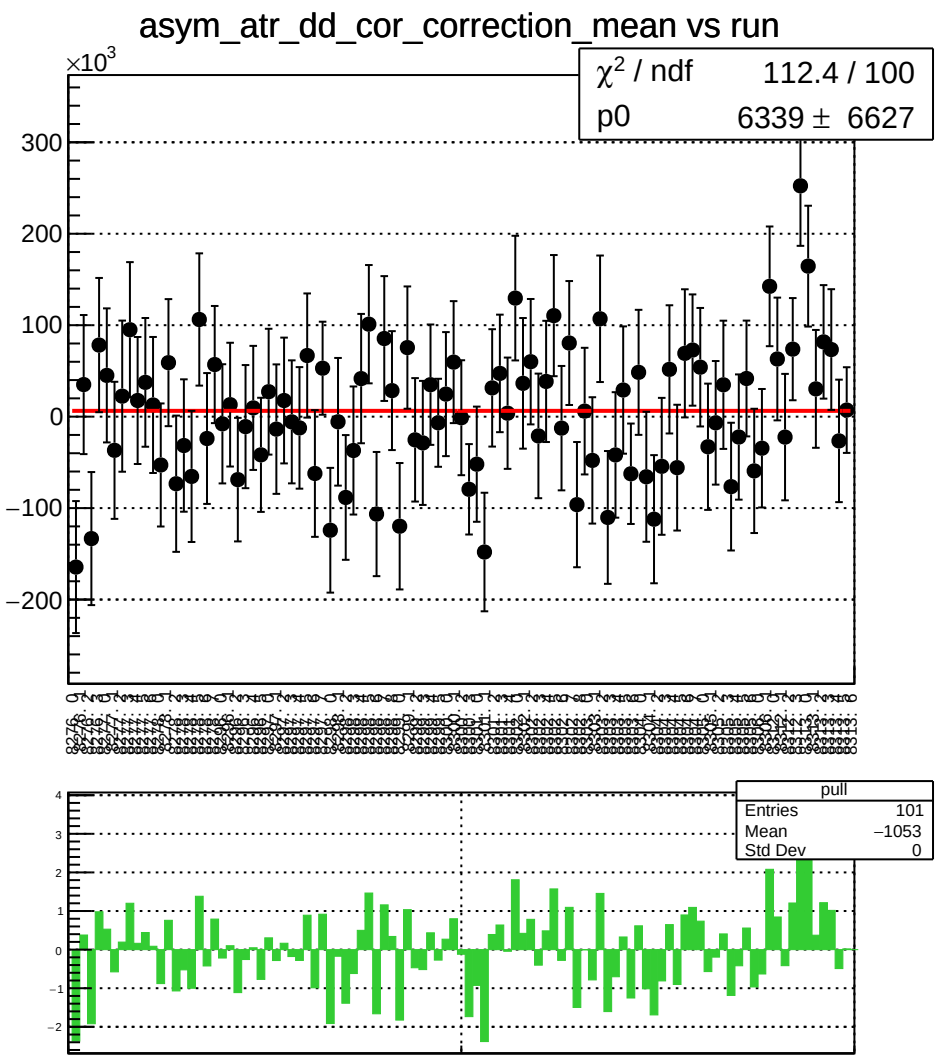

pull1D
Entries 101
Mean −0.005358
Std Dev 1.055
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

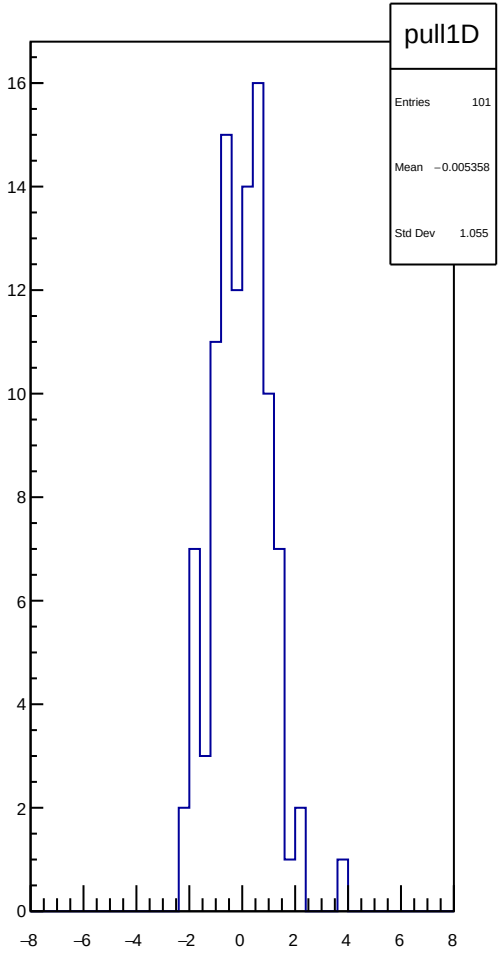

asym_atr_dd_reg_correction_rms vs run
χ² / ndf 3894 / 100
p0 6499 ± 4.686
8000
7500
7000
6500
6000

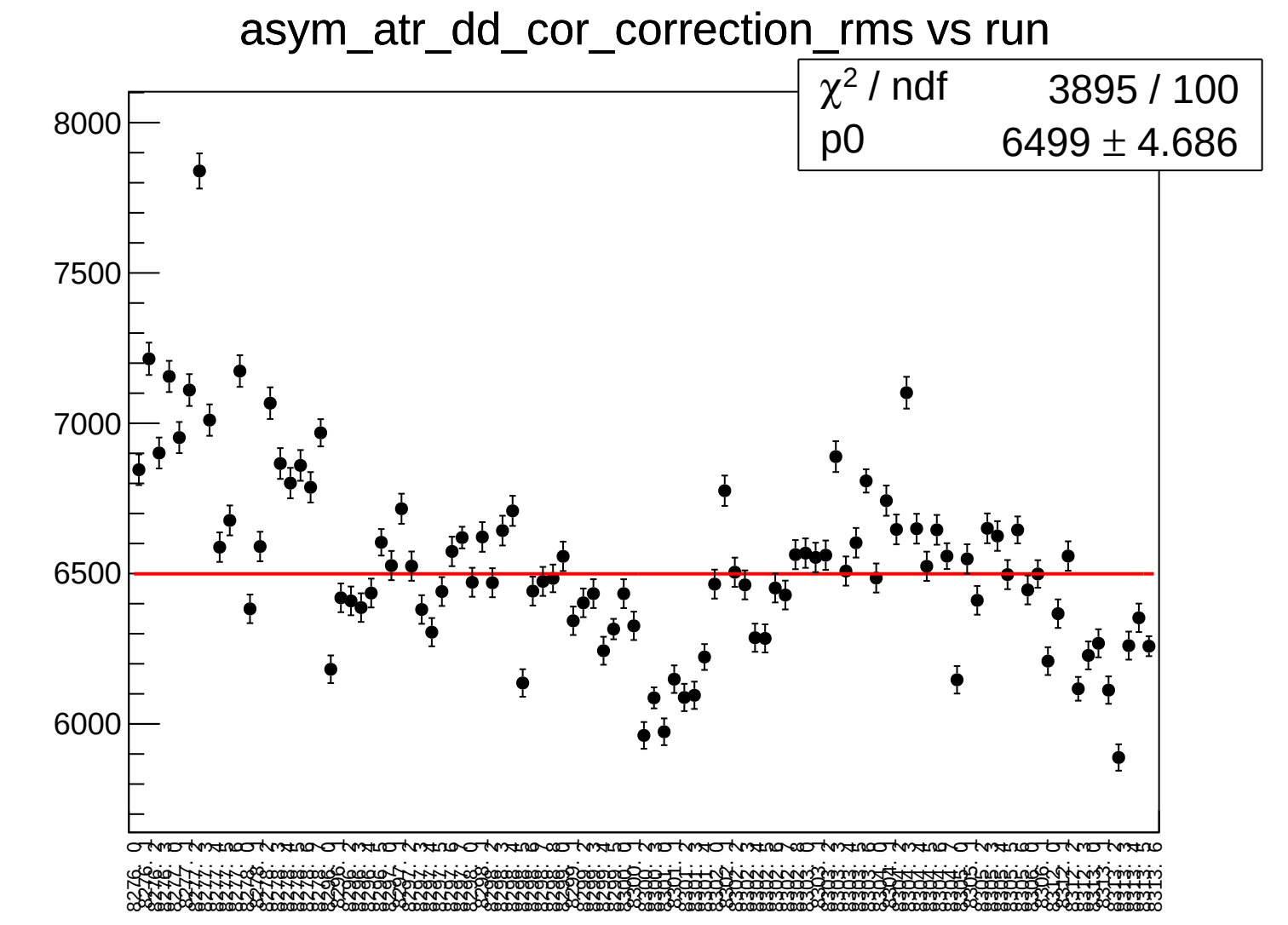

cor_asym_atr_dd_mean vs run
χ² / ndf 79.7 / 100
p0 −2792 ± 1991
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 101
Mean 3105
Std Dev 0
2
1
0
−1
−2

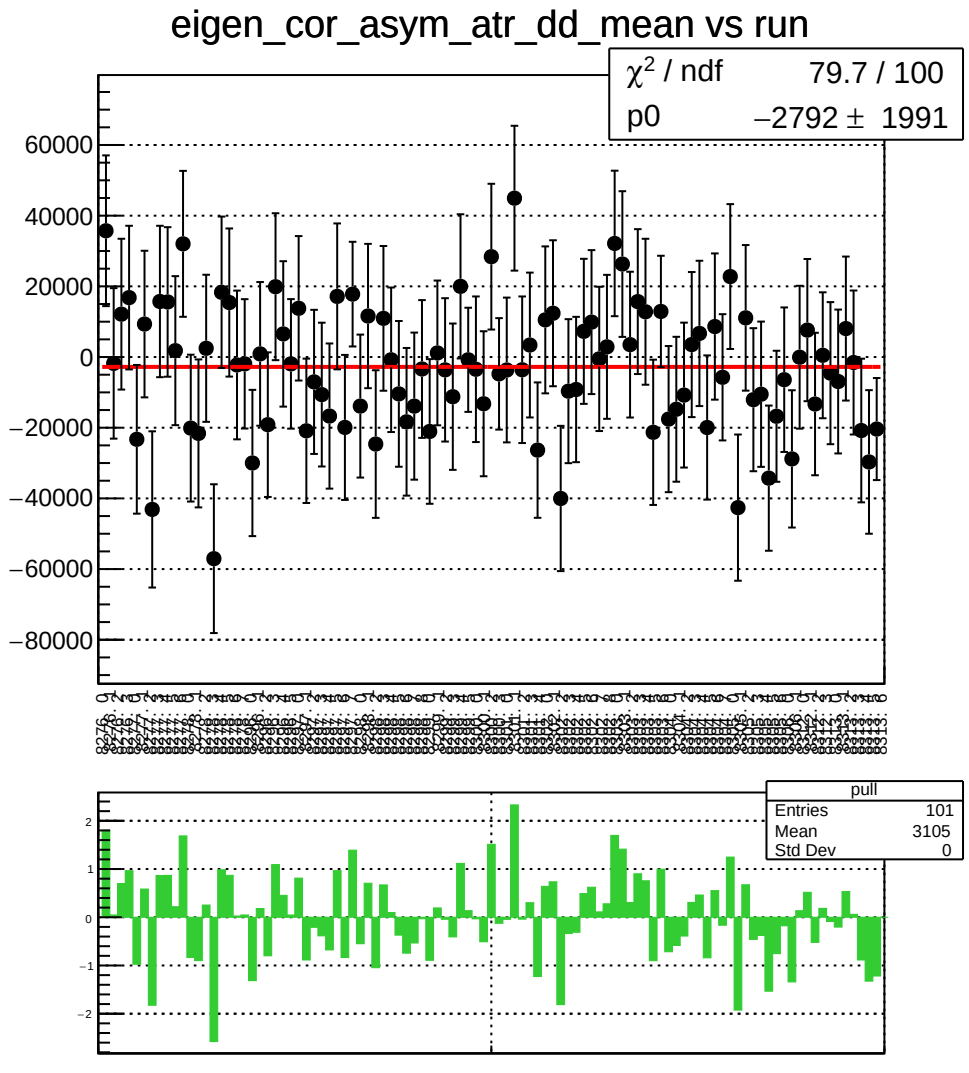

pull1D
Entries 101
Mean −0.001118
Std Dev 0.8883
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

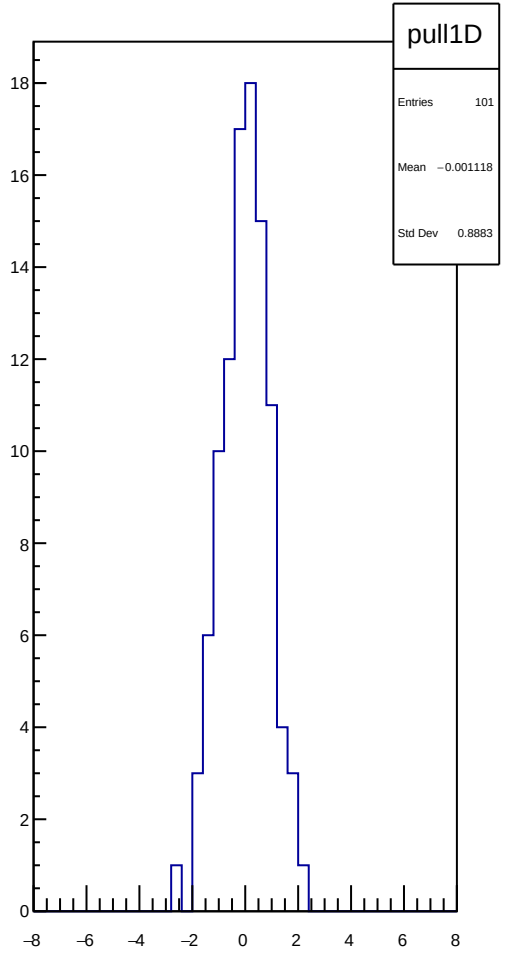

cor_asym_atr_dd_rms vs run
χ^2 / ndf 414.3 / 100
p0 1954 ± 1.408
2100
2050
2000
1950
1900

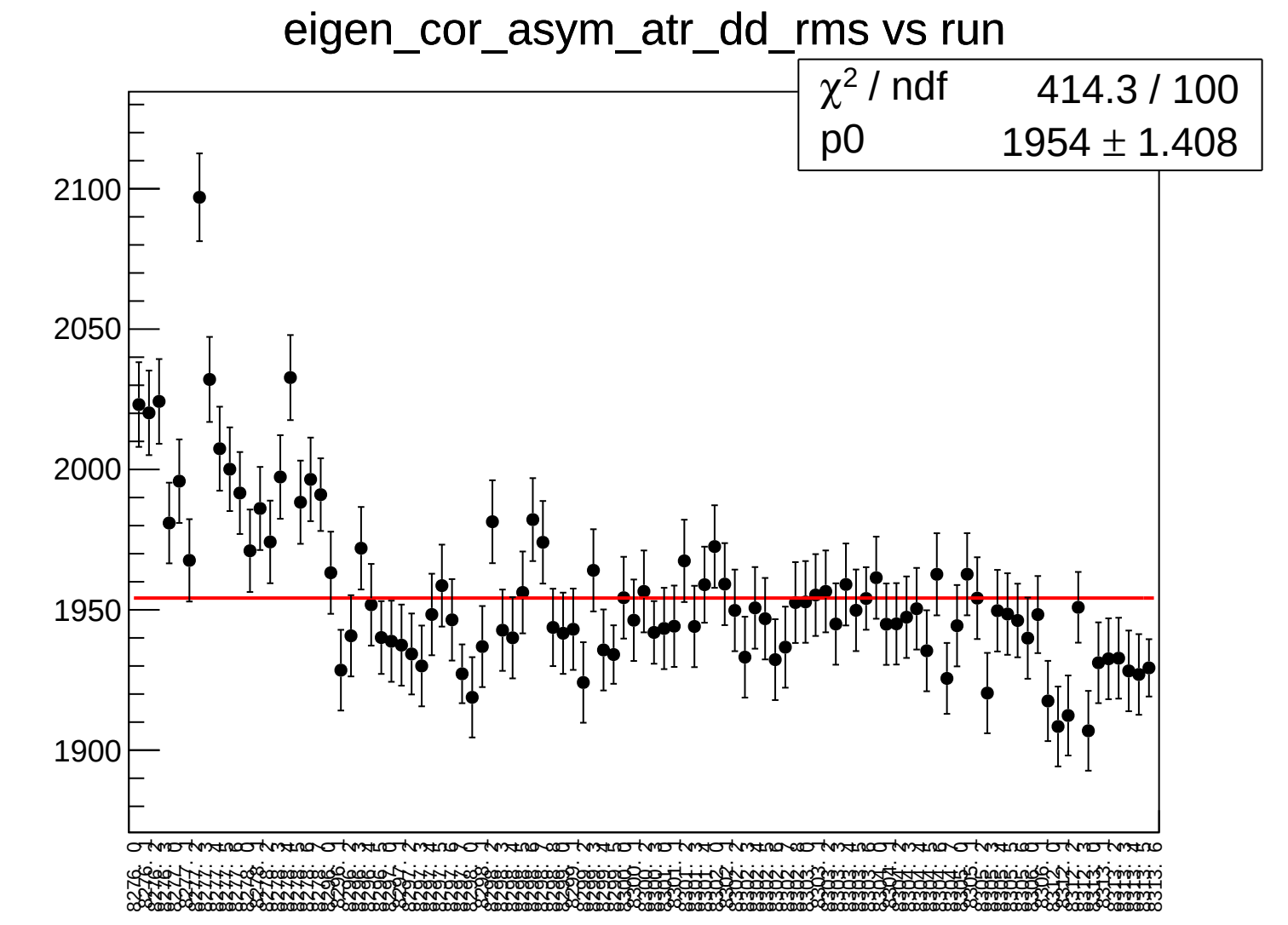

asym_atr_dd_cor_correction_mean vs run
×10^3
χ² / ndf 112.4 / 100
p0 6339 ± 6627
300
200
100
0
−100
−200
pull
Entries 101
Mean −1053
Std Dev 0
4
3
2
1
0
−1
−2

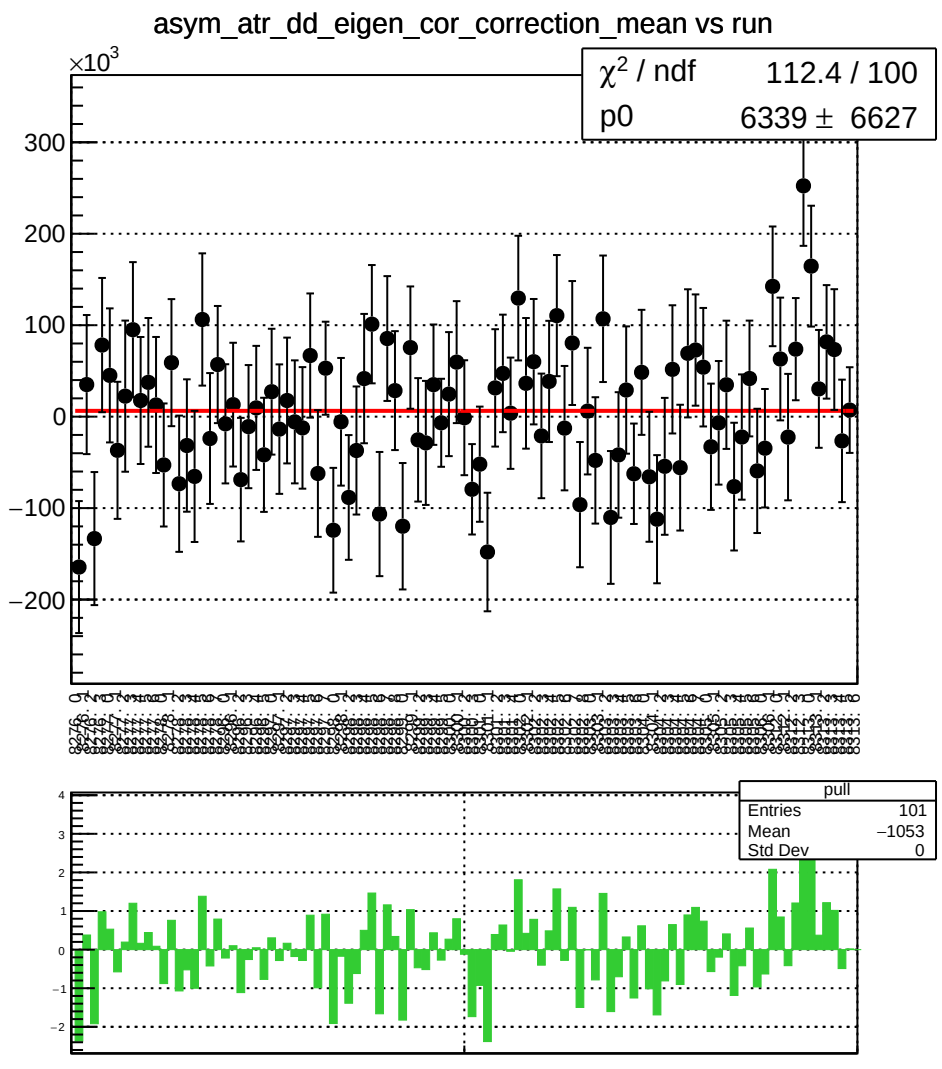

pull1D
Entries 101
Mean −0.005358
Std Dev 1.055
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

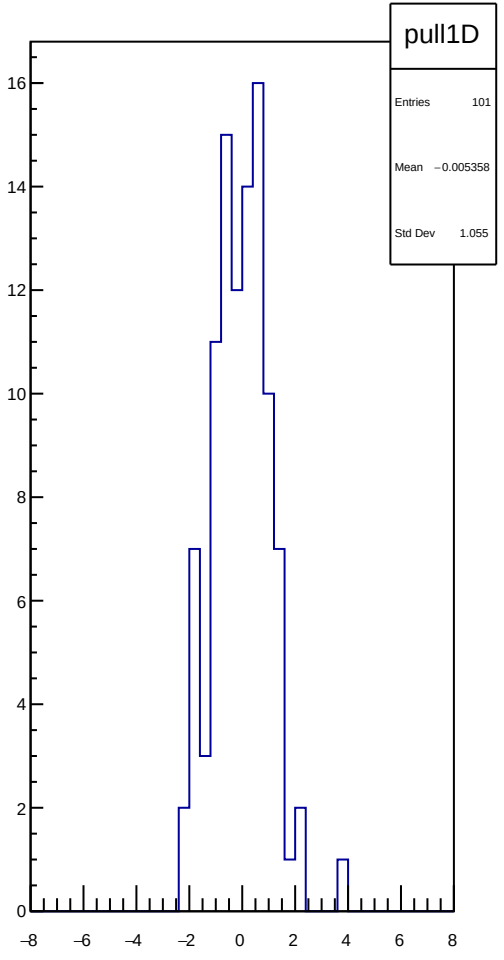

asym_atr_dd_cor_correction_rms vs run
χ² / ndf 3895 / 100
p0 6499 ± 4.686
8000
7500
7000
6500
6000

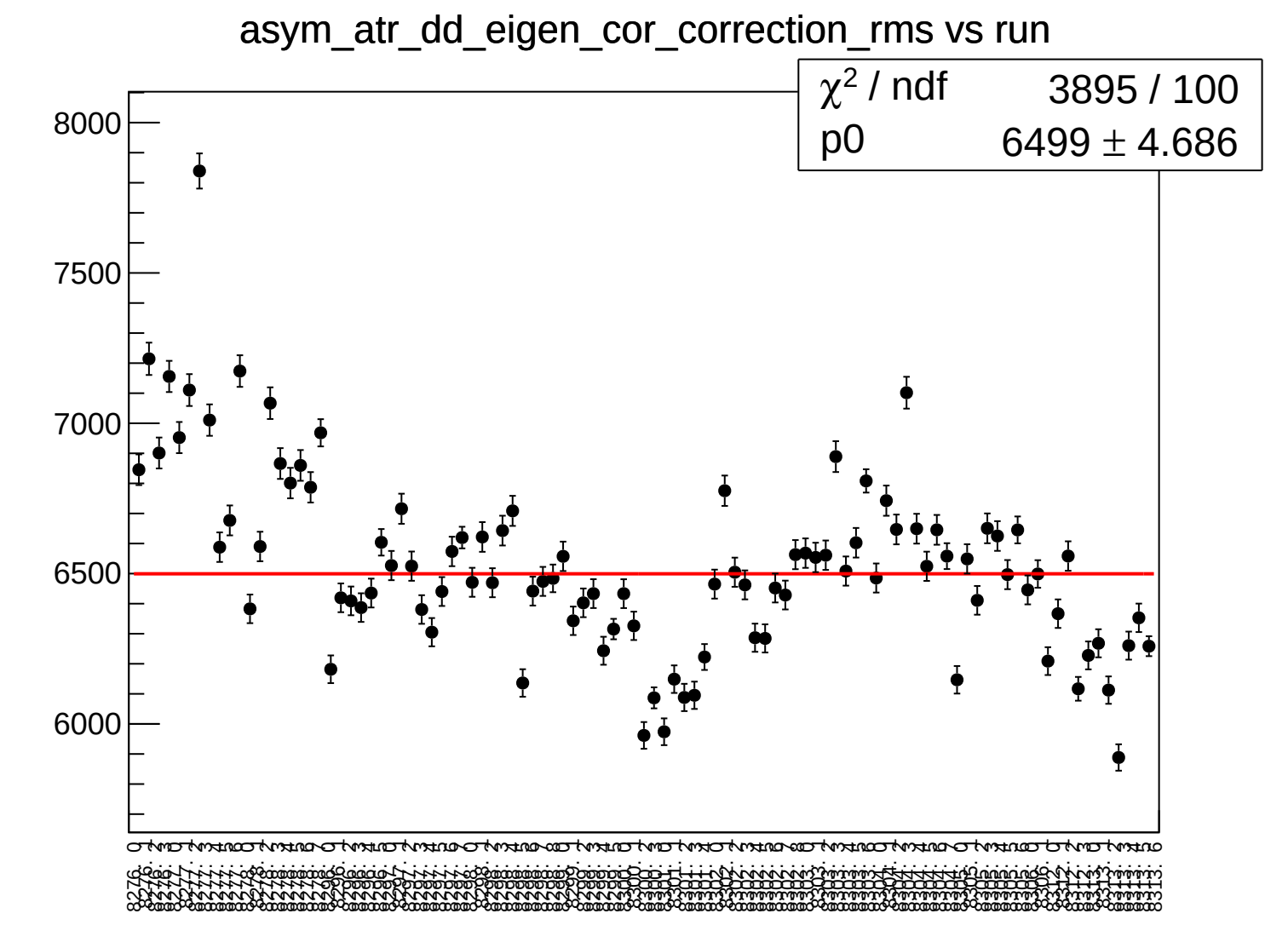

eigen_cor_asym_atr_dd_mean vs run
χ² / ndf 79.7 / 100
p0 −2792 ± 1991
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 101
Mean 3105
Std Dev 0
2
1
0
−1
−2

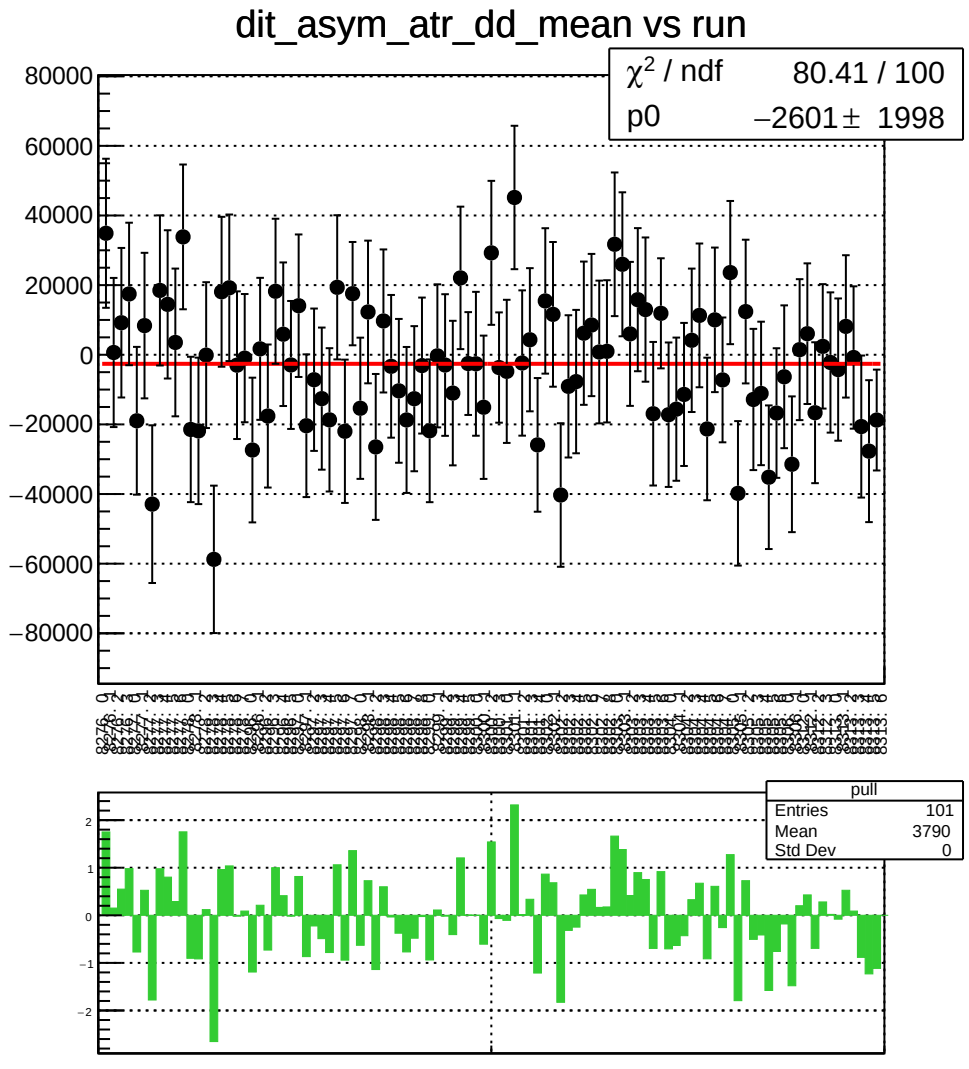

pull1D
Entries 101
Mean −0.001118
Std Dev 0.8883
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

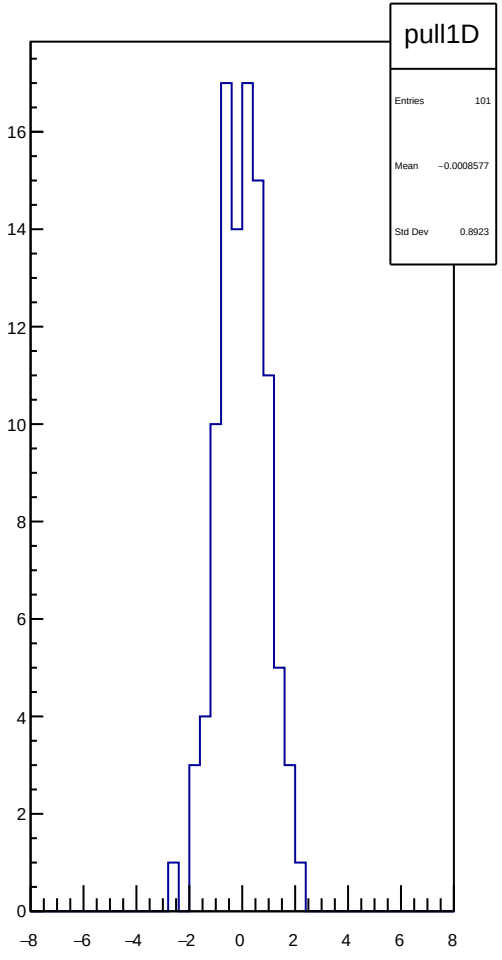

eigen_cor_asym_atr_dd_rms vs run
χ^2 / ndf 414.3 / 100
p0 1954 ± 1.408
2100
2050
2000
1950
1900

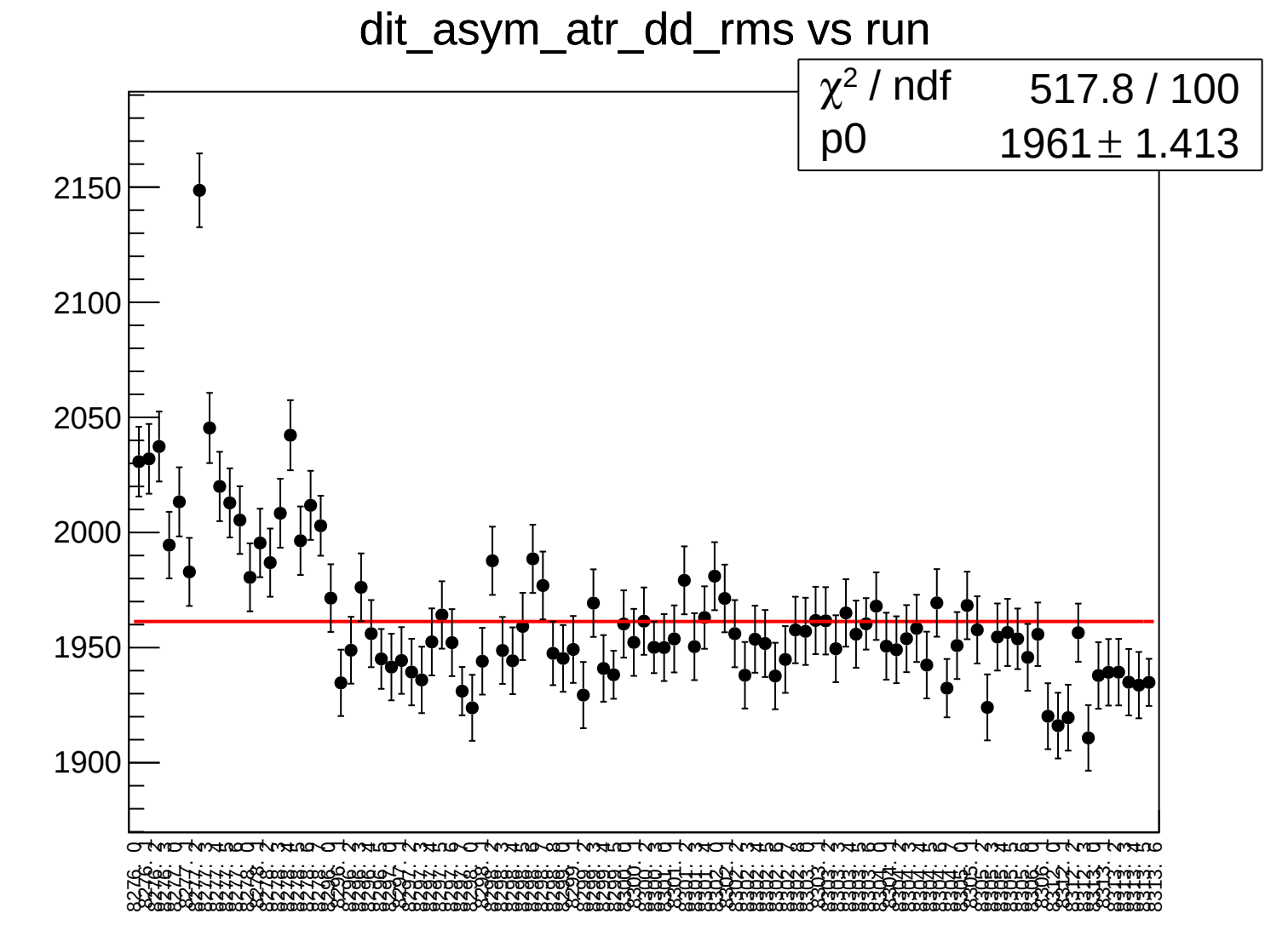

asym_atr_dd_eigen_cor_correction_mean vs run
χ² / ndf 112.4 / 100
p0 6339 ± 6627
×10³
300
200
100
0
−100
−200
pull
Entries 101
Mean −1053
Std Dev 0
4
3
2
1
0
−1
−2

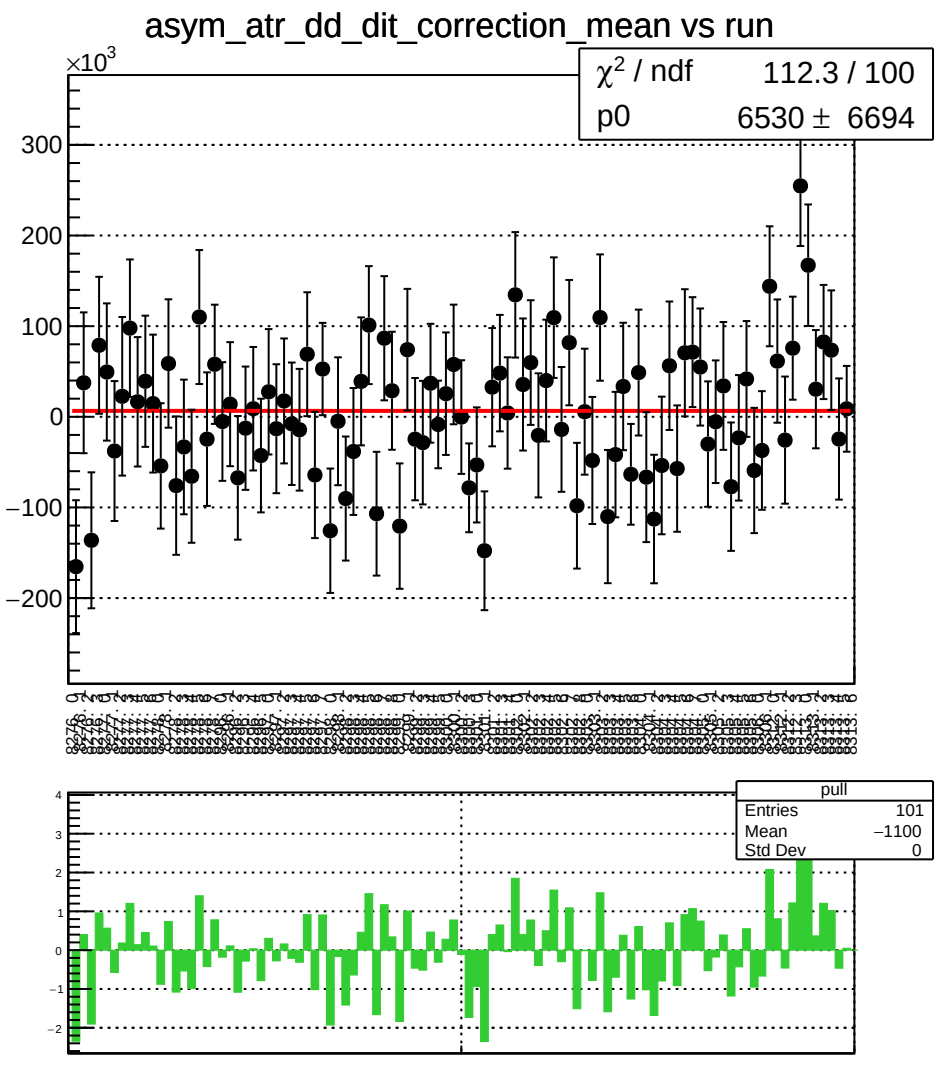

pull1D
Entries 101
Mean −0.005358
Std Dev 1.055
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

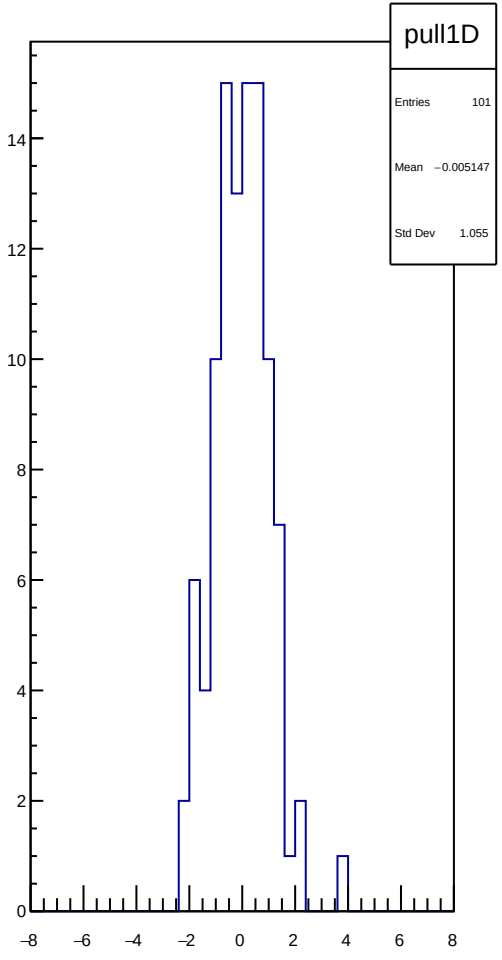

asym_atr_dd_eigen_cor_correction_rms vs run
χ² / ndf 3895 / 100
p0 6499 ± 4.686
8000
7500
7000
6500
6000


dit_asym_atr_dd_mean vs run
χ² / ndf 80.41 / 100
p0 −2601 ± 1998
pull
Entries 101
Mean 3790
Std Dev 0

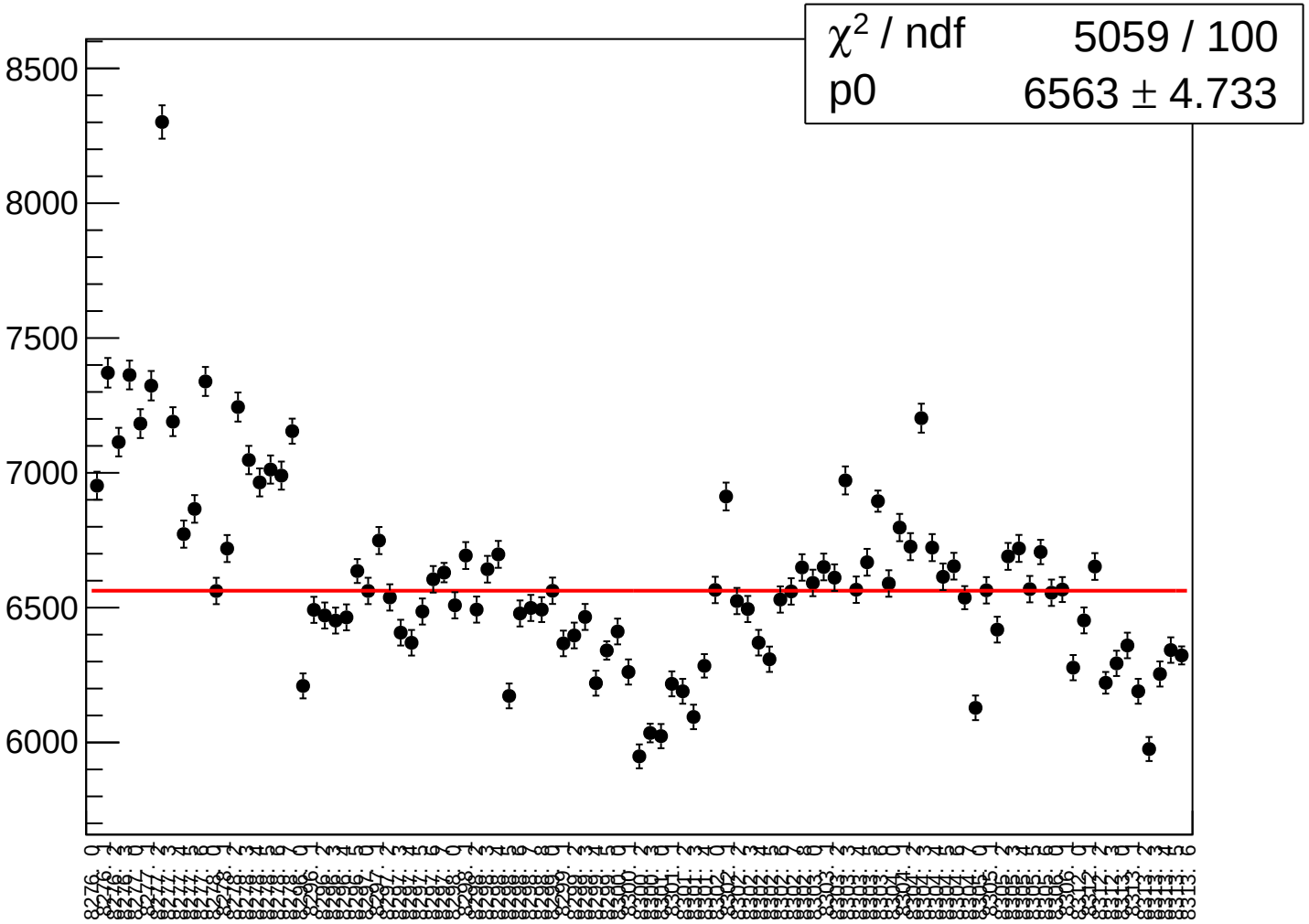

pull1D
Entries 101
Mean −0.0008577
Std Dev 0.8923

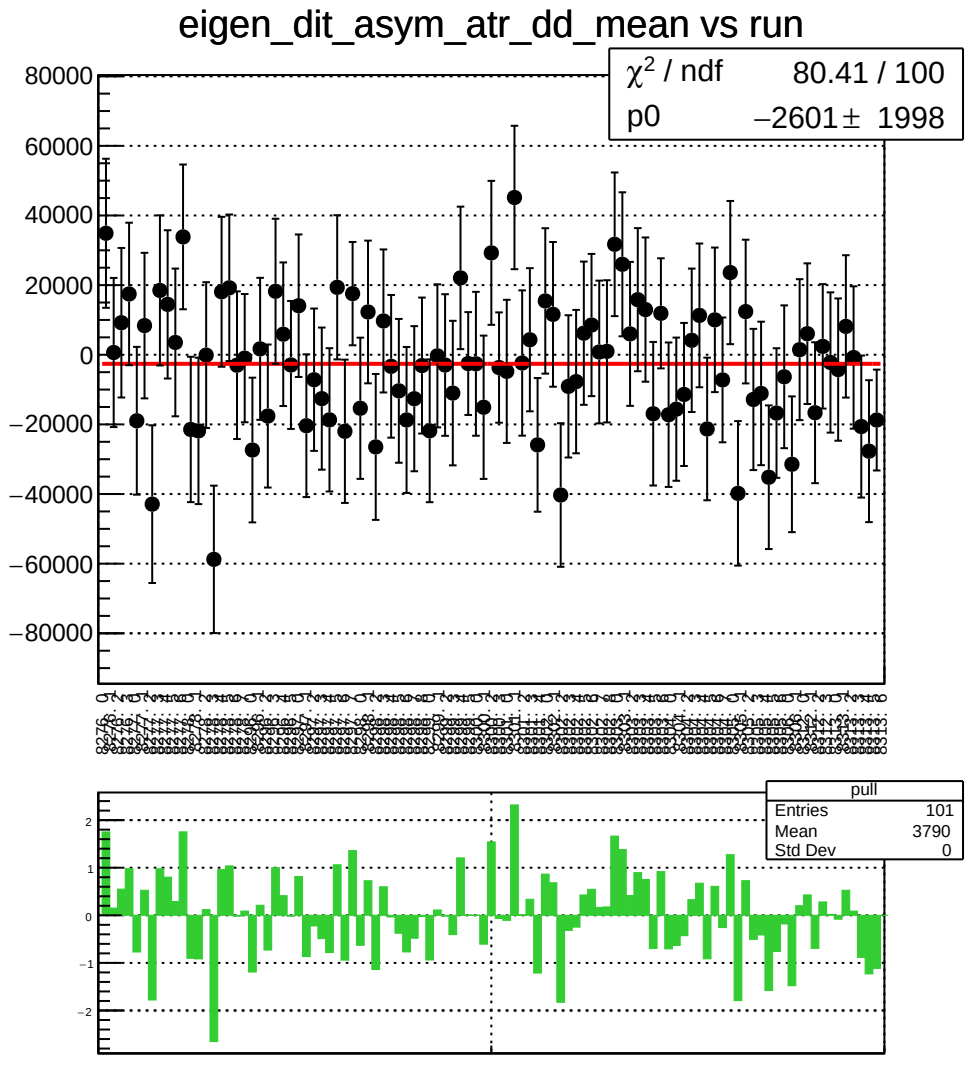

dit_asym_atr_dd_rms vs run
χ^2 / ndf 517.8 / 100
p0 1961 ± 1.413
2150
2100
2050
2000
1950
1900

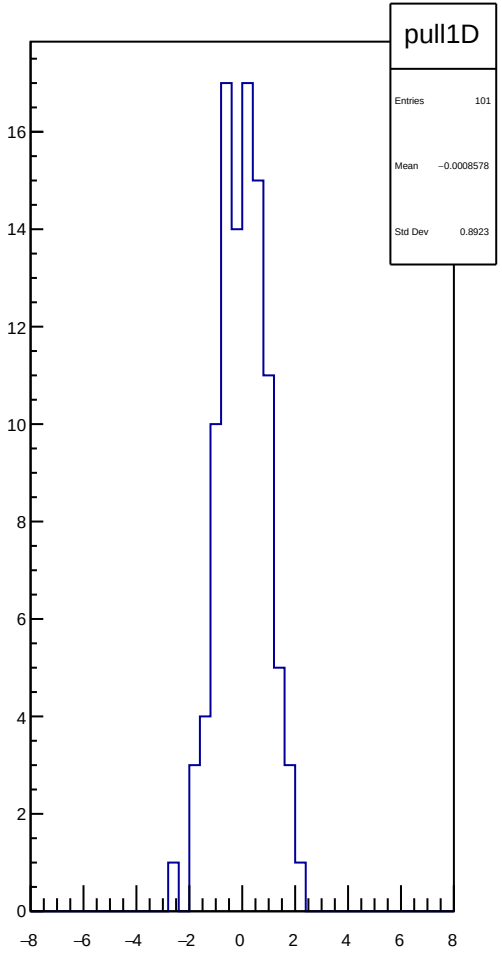

asym_atr_dd_dit_correction_mean vs run
×10^3
χ² / ndf 112.3 / 100
p0 6530 ± 6694
300
200
100
0
−100
−200
pull
Entries 101
Mean −1100
Std Dev 0
4
3
2
1
0
−1
−2

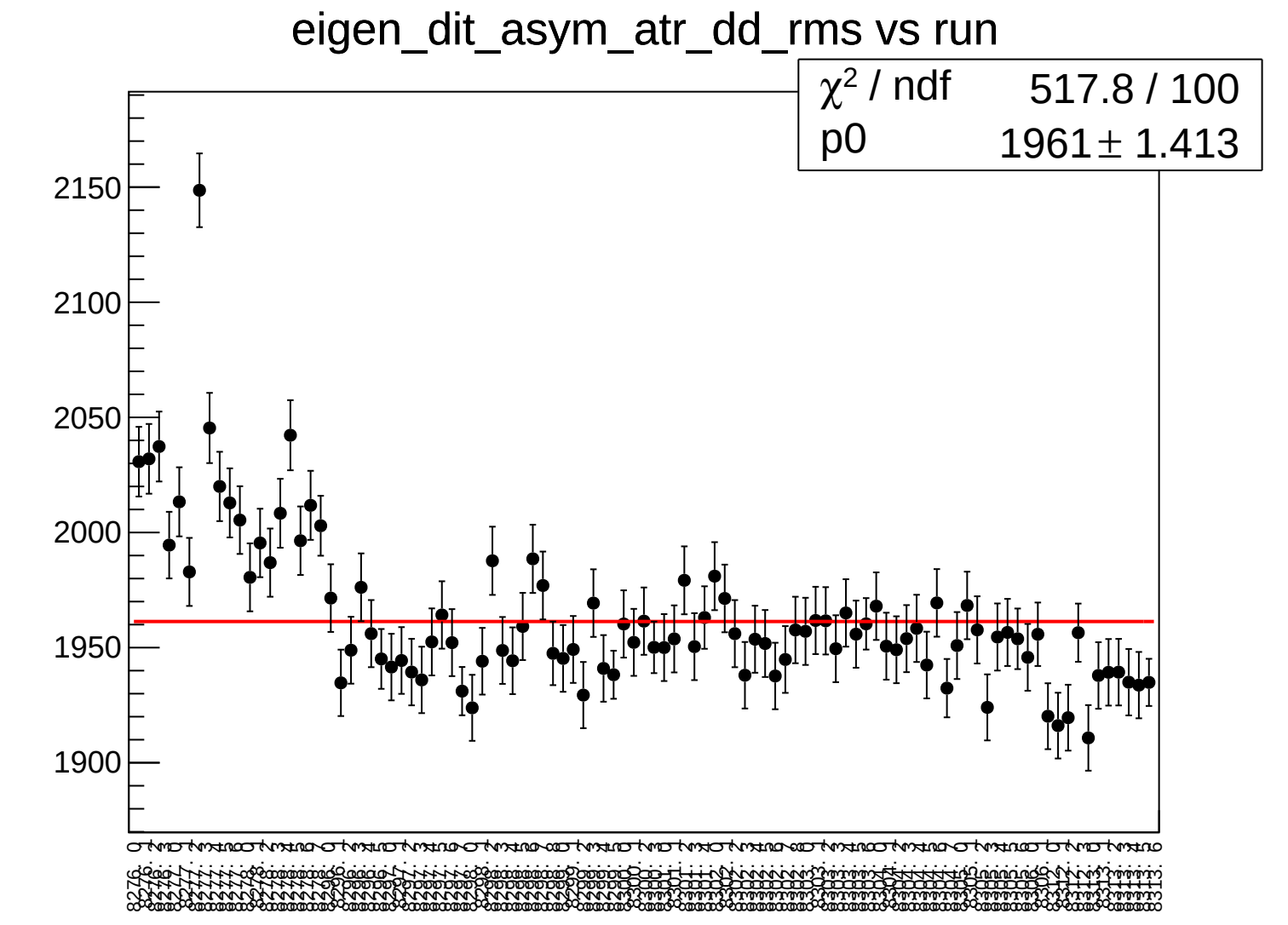

pull1D
Entries 101
Mean −0.005147
Std Dev 1.055
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

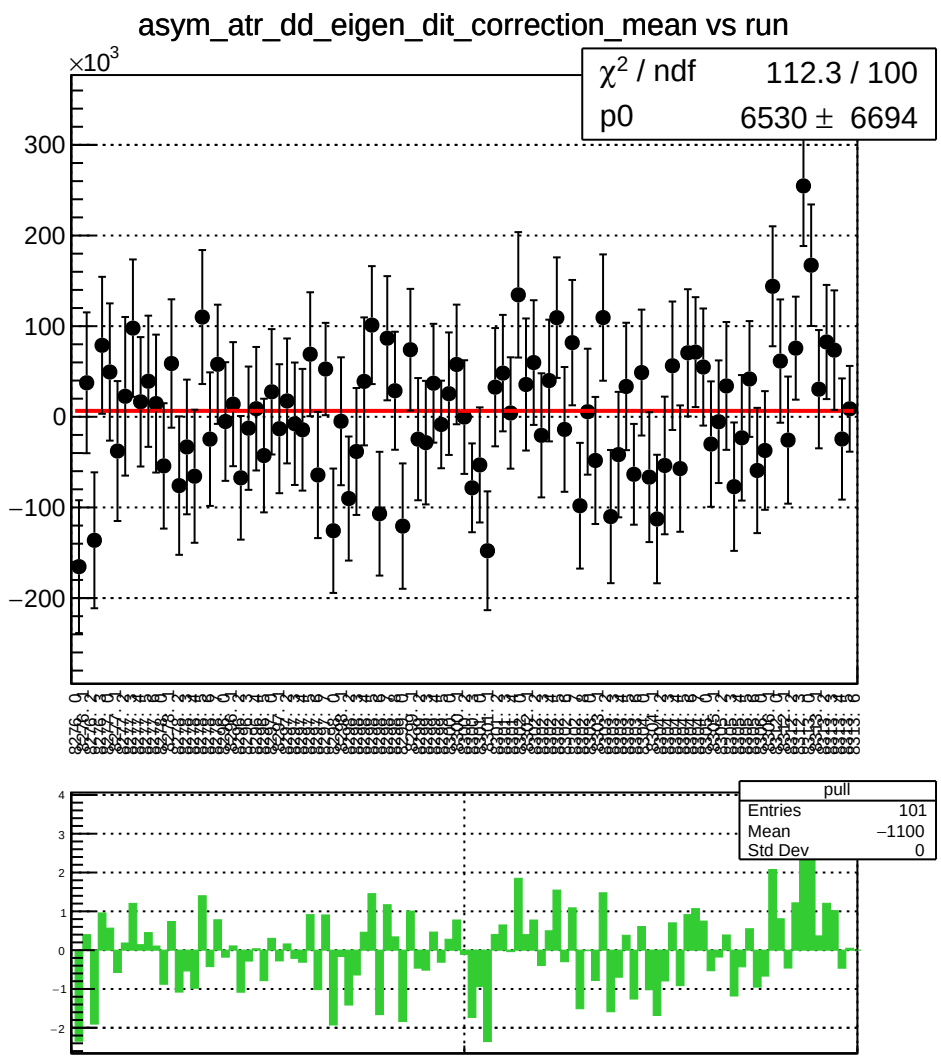
asym_atr_dd_dit_correction_rms vs run

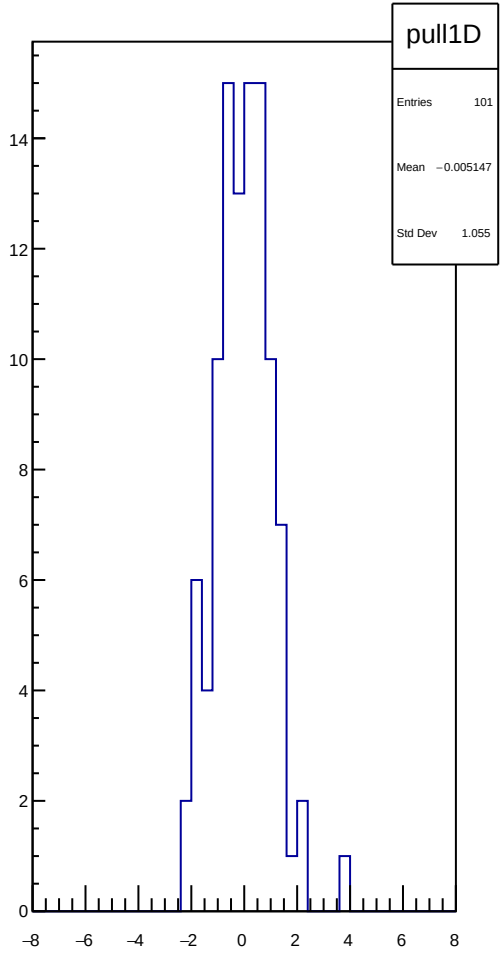


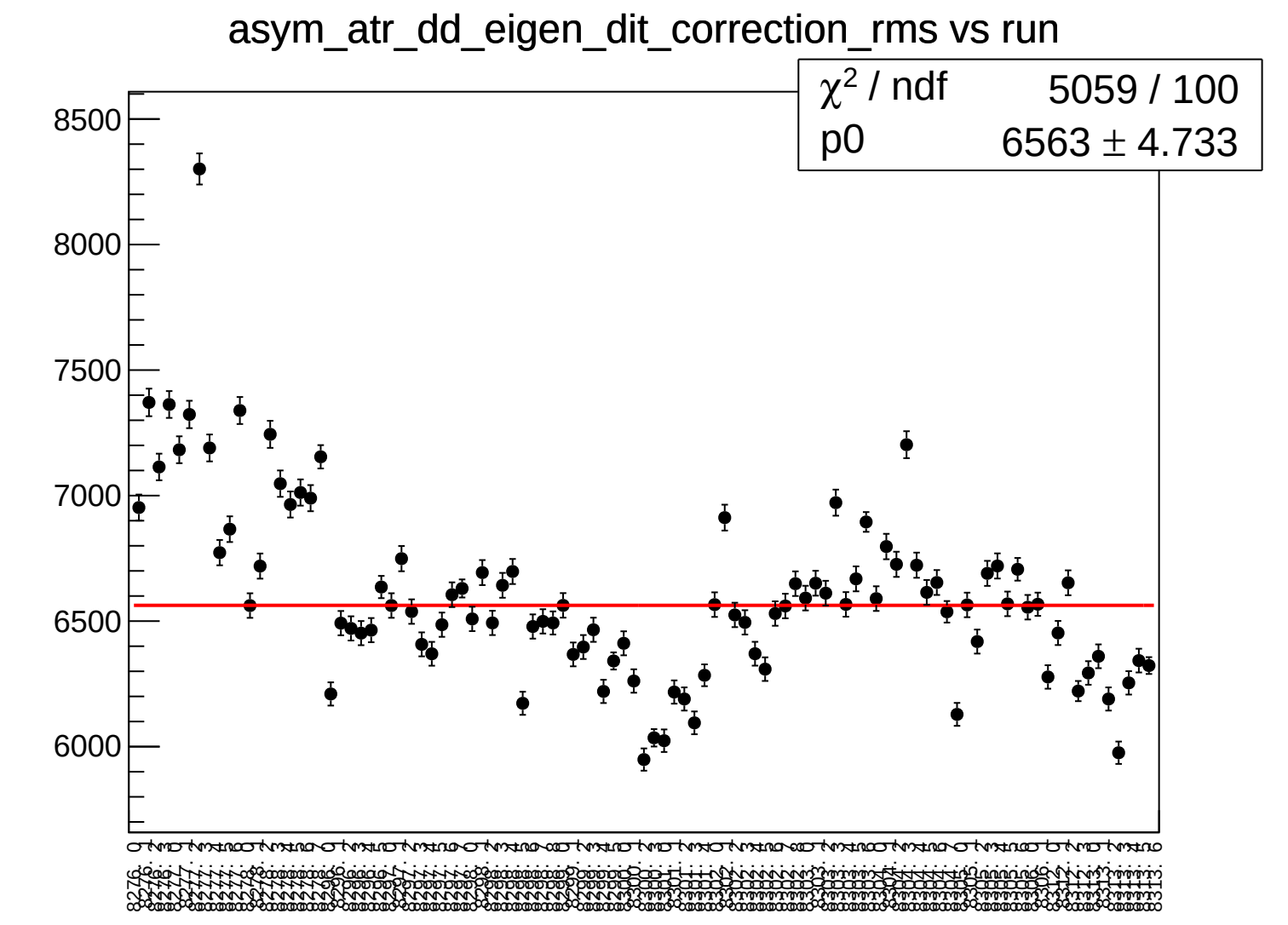

eigen_dit_asym_atr_dd_mean vs run
χ² / ndf 80.41 / 100
p0 −2601 ± 1998
pull
Entries 101
Mean 3790
Std Dev 0

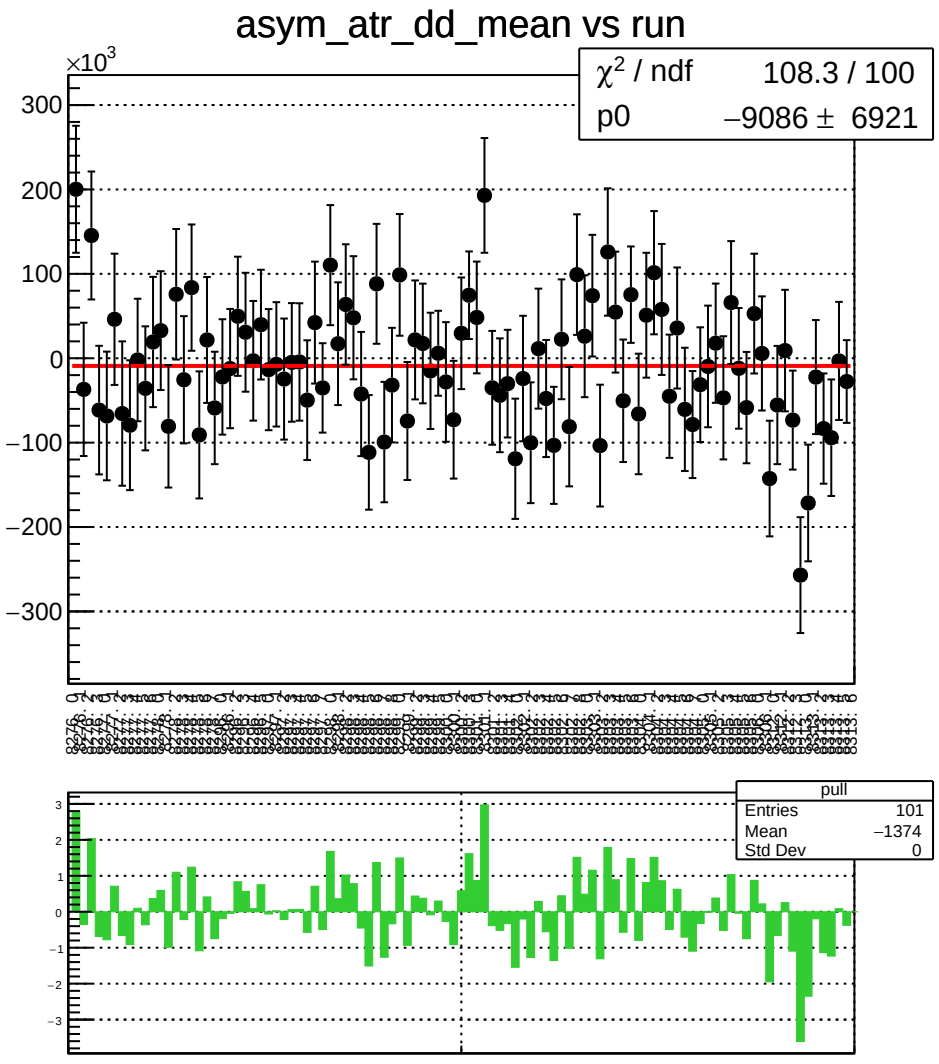

pull1D
Entries 101
Mean −0.0008578
Std Dev 0.8923

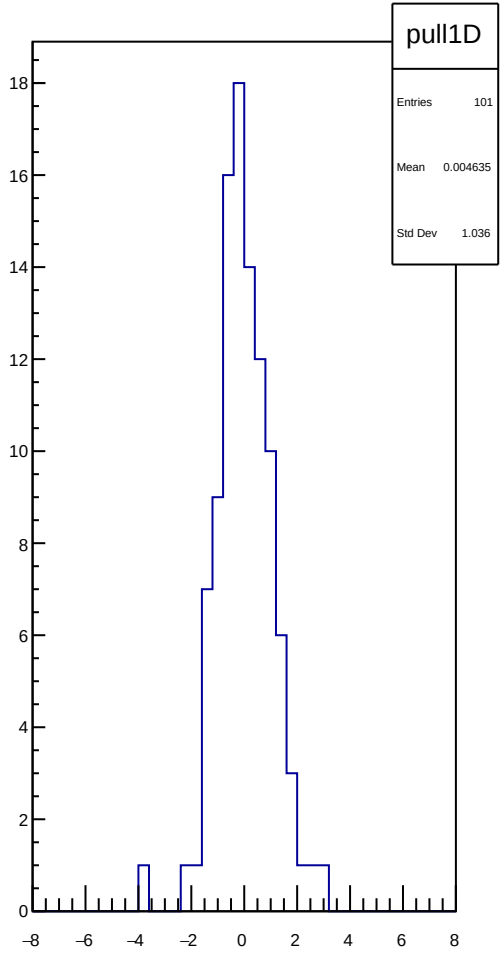

eigen_dit_asym_atr_dd_rms vs run
χ^2 / ndf 517.8 / 100
p0 1961 ± 1.413
2150
2100
2050
2000
1950
1900

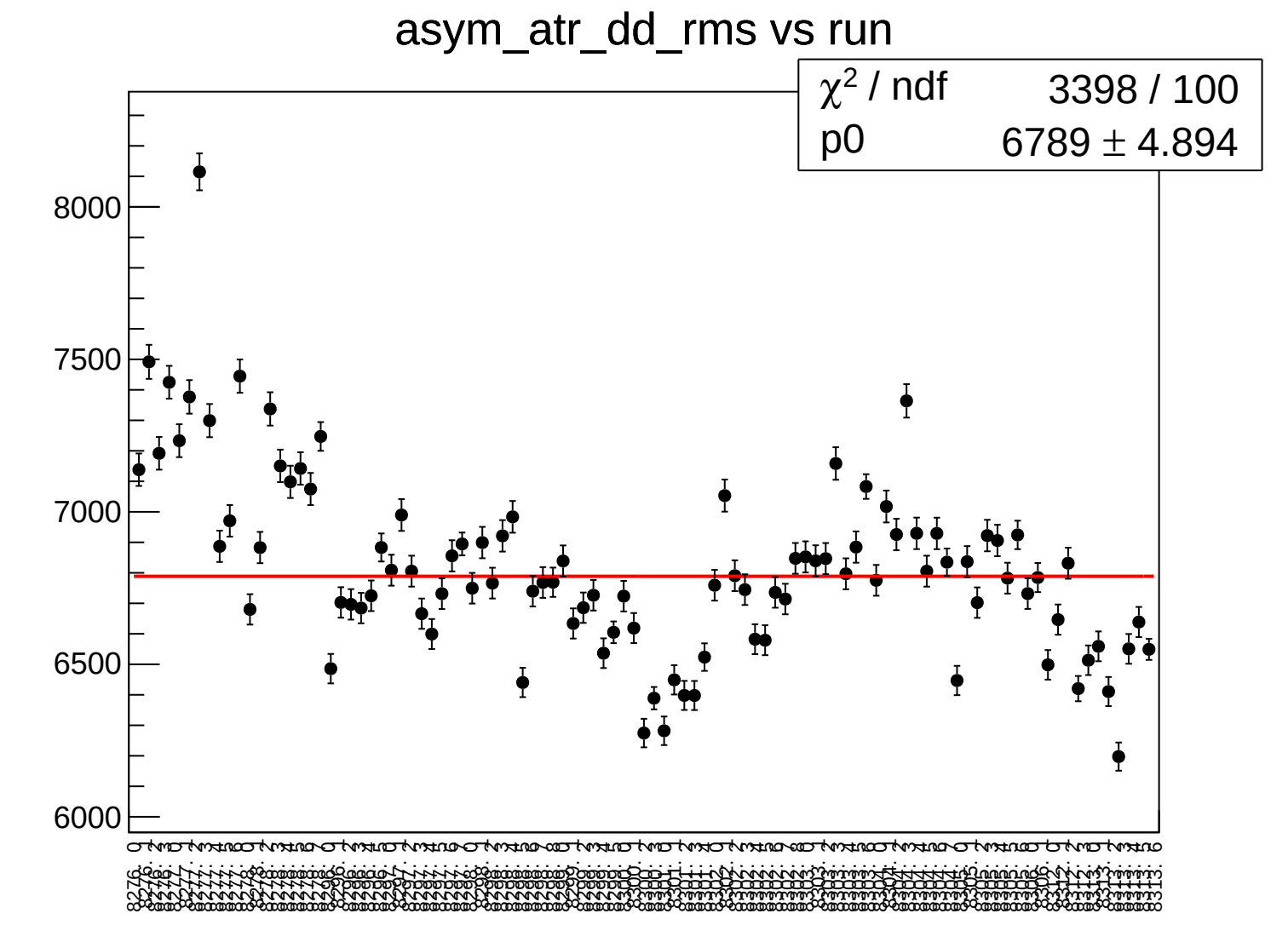

asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 112.3 / 100
p0 6530 ± 6694
300
200
100
0
−100
−200
pull
Entries 101
Mean −1100
Std Dev 0
4
3
2
1
0
−1
−2

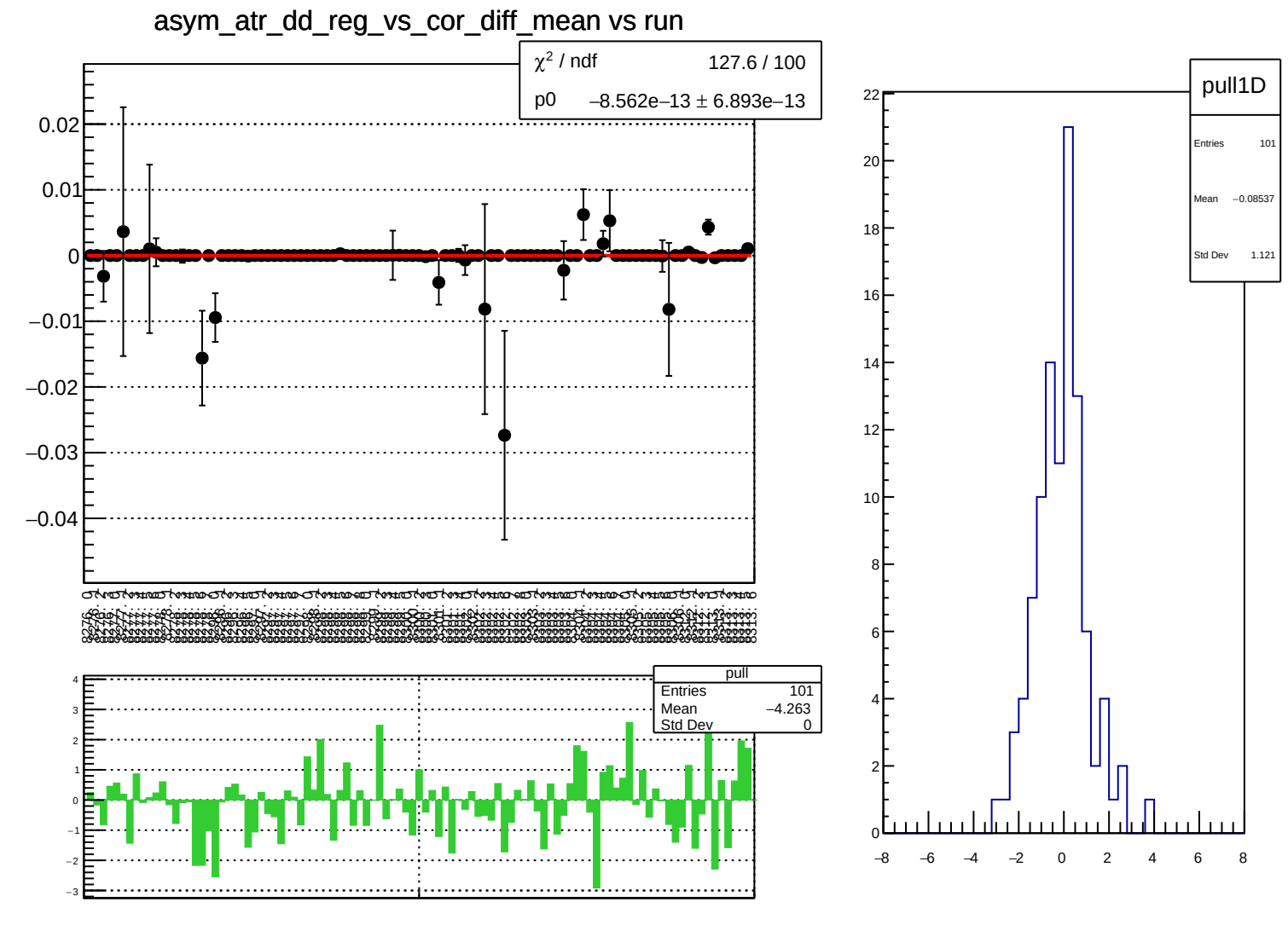

pull1D
Entries 101
Mean −0.005147
Std Dev 1.055
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

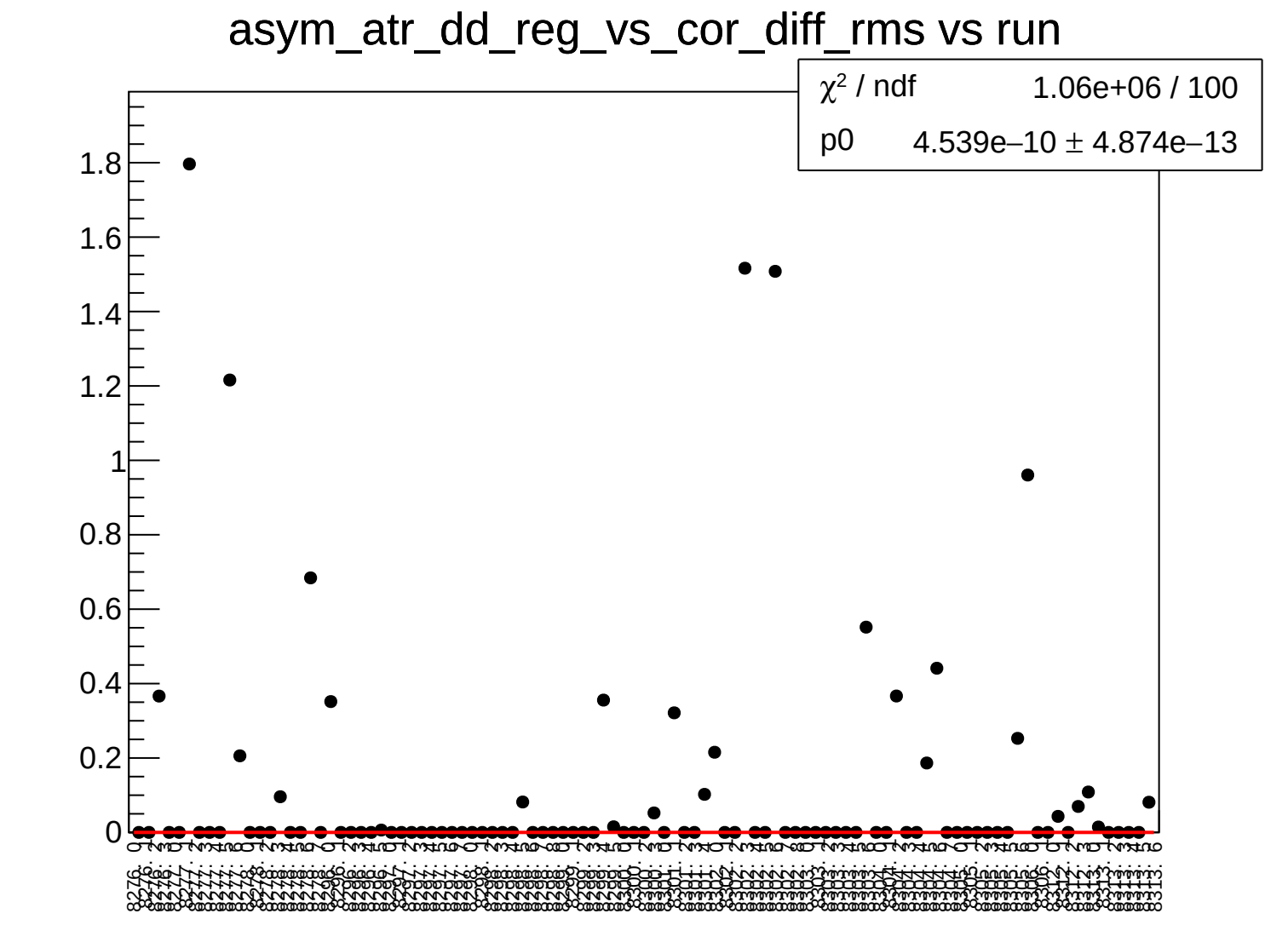

asym_atr_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 5059 / 100
p0 6563 ± 4.733
8500
8000
7500
7000
6500
6000

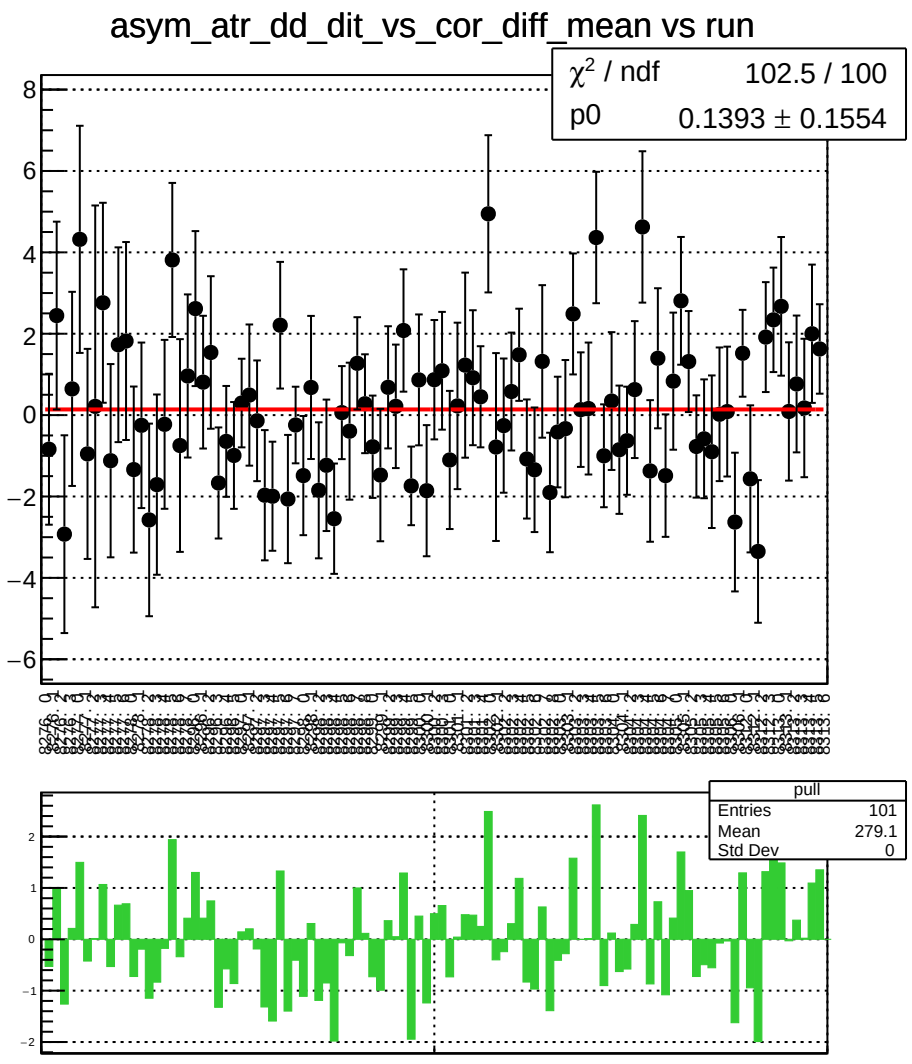

asym_atr_dd_mean vs run
×10^3
χ^2 / ndf 108.3 / 100
p0 −9086 ± 6921
300
200
100
0
−100
−200
−300
pull
Entries 101
Mean −1374
Std Dev 0
3
2
1
0
−1
−2
−3

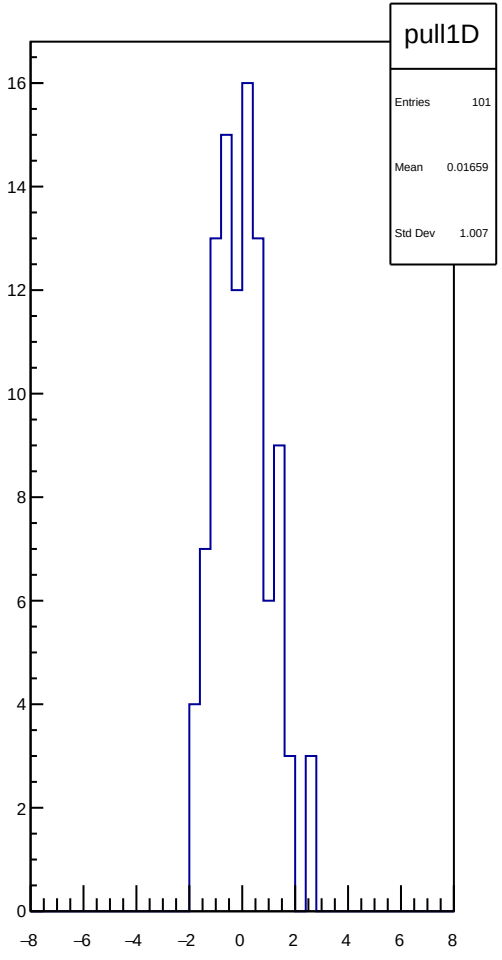

pull1D
Entries 101
Mean 0.004635
Std Dev 1.036
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

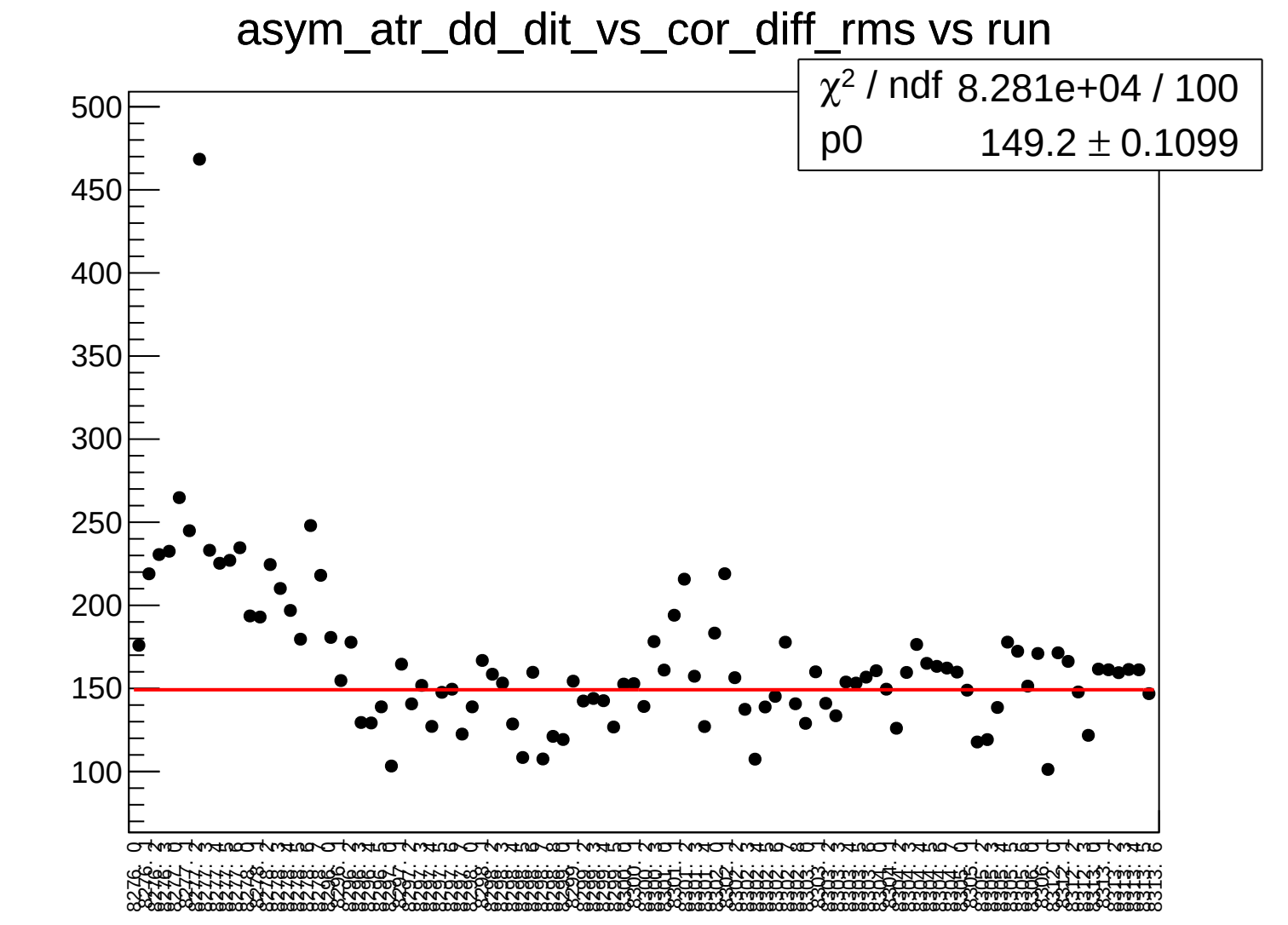

asym_atr_dd_rms vs run
χ^2 / ndf 3398 / 100
p0 6789 ± 4.894
8000
7500
7000
6500
6000

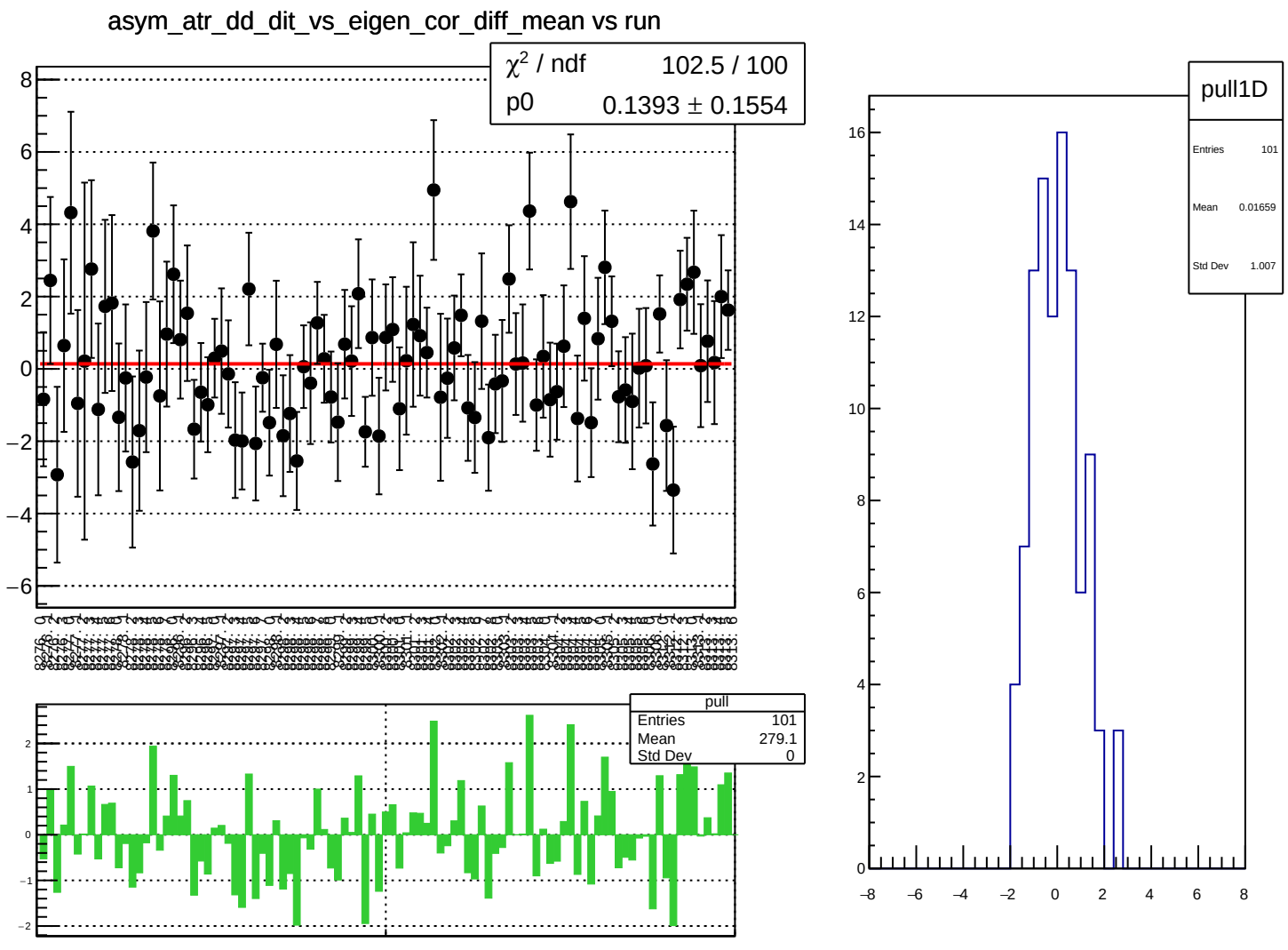

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 127.6 / 100
p0 −8.562e−13 ± 6.893e−13
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 101
Mean −4.263
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean −0.08537
Std Dev 1.121
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

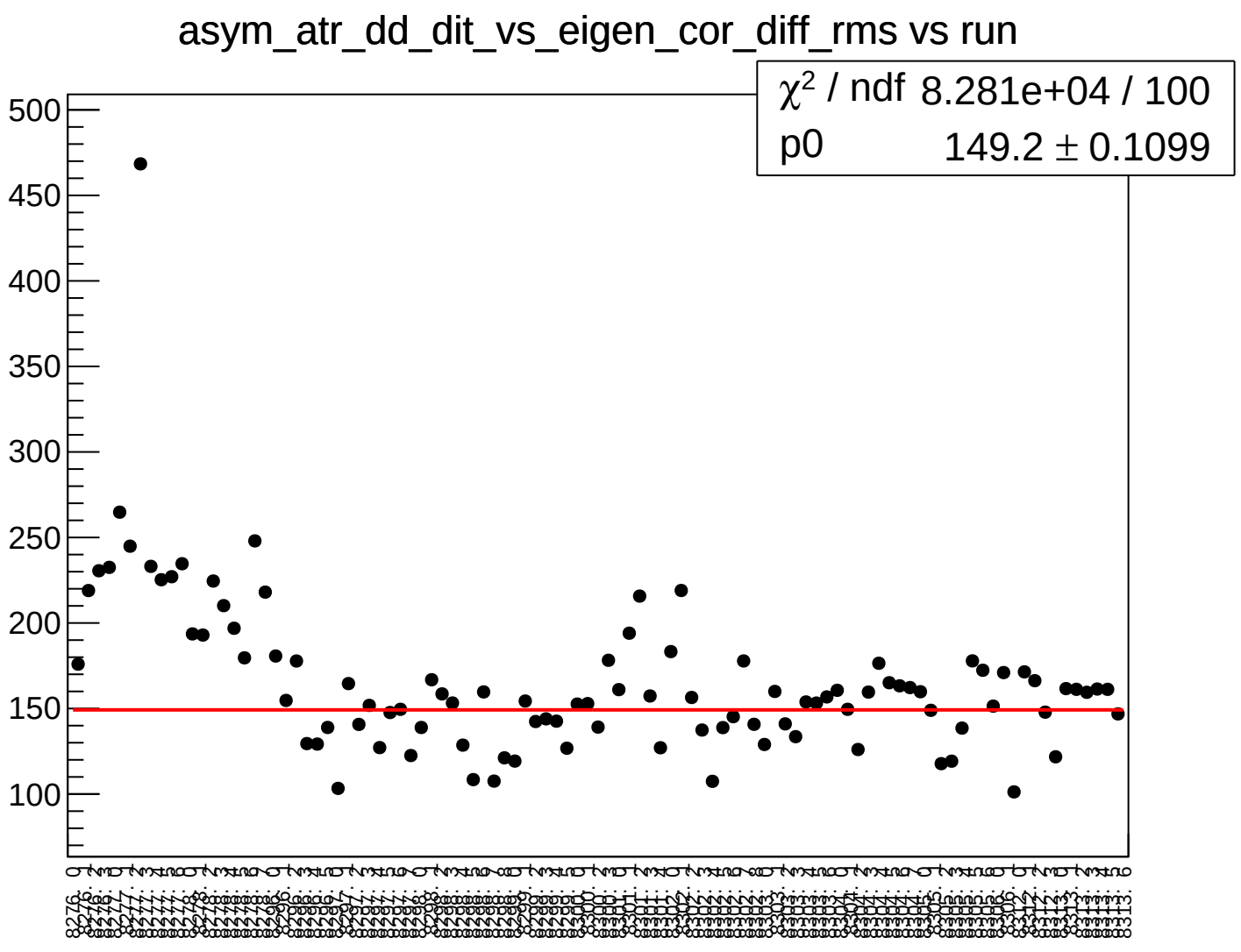

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.06e+06 / 100
p0 4.539e−10 ± 4.874e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

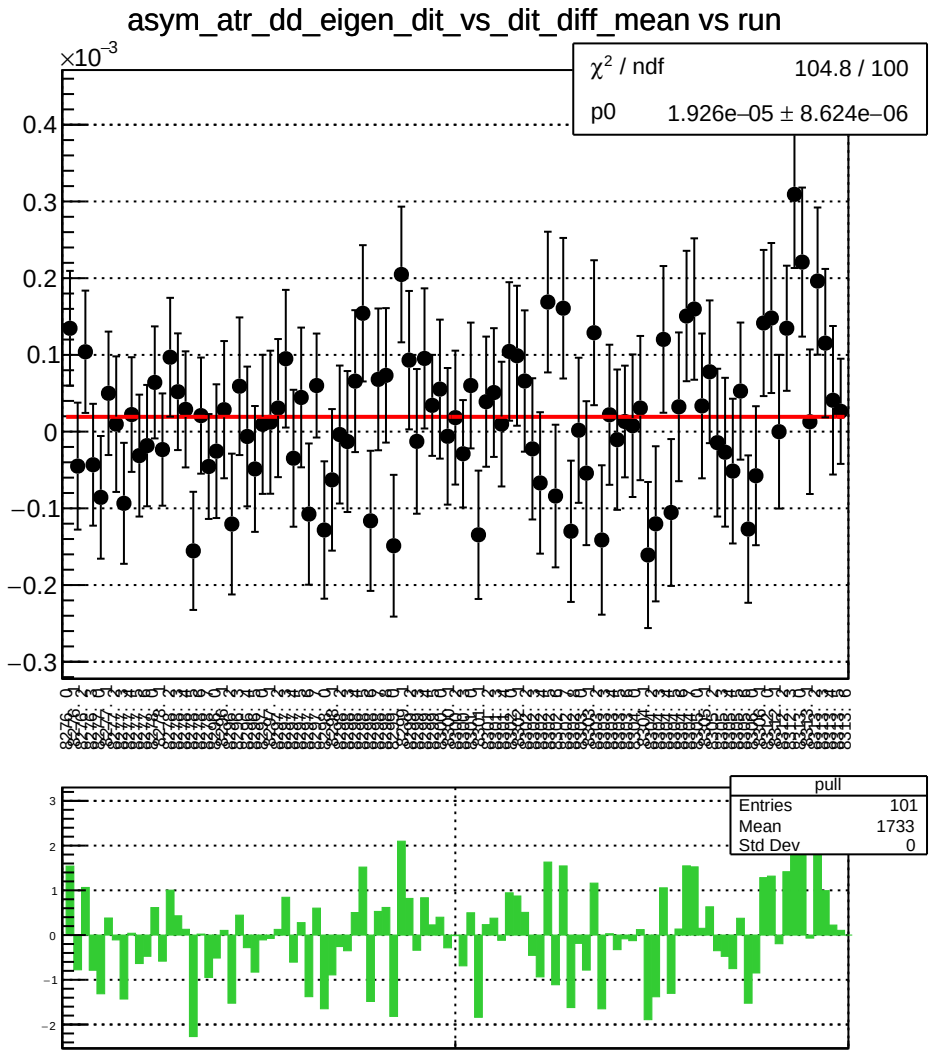

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 102.5 / 100
p0 0.1393 ± 0.1554
pull
Entries 101
Mean 279.1
Std Dev 0

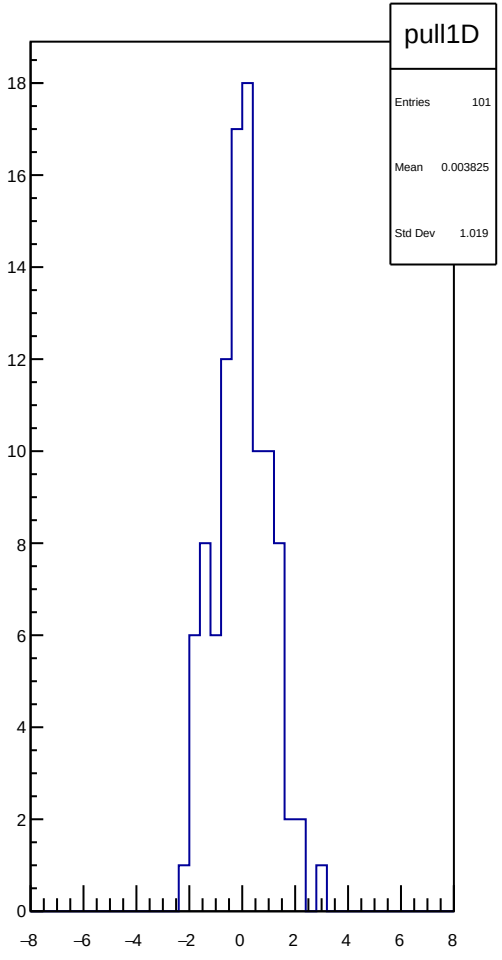

pull1D
Entries 101
Mean 0.01659
Std Dev 1.007

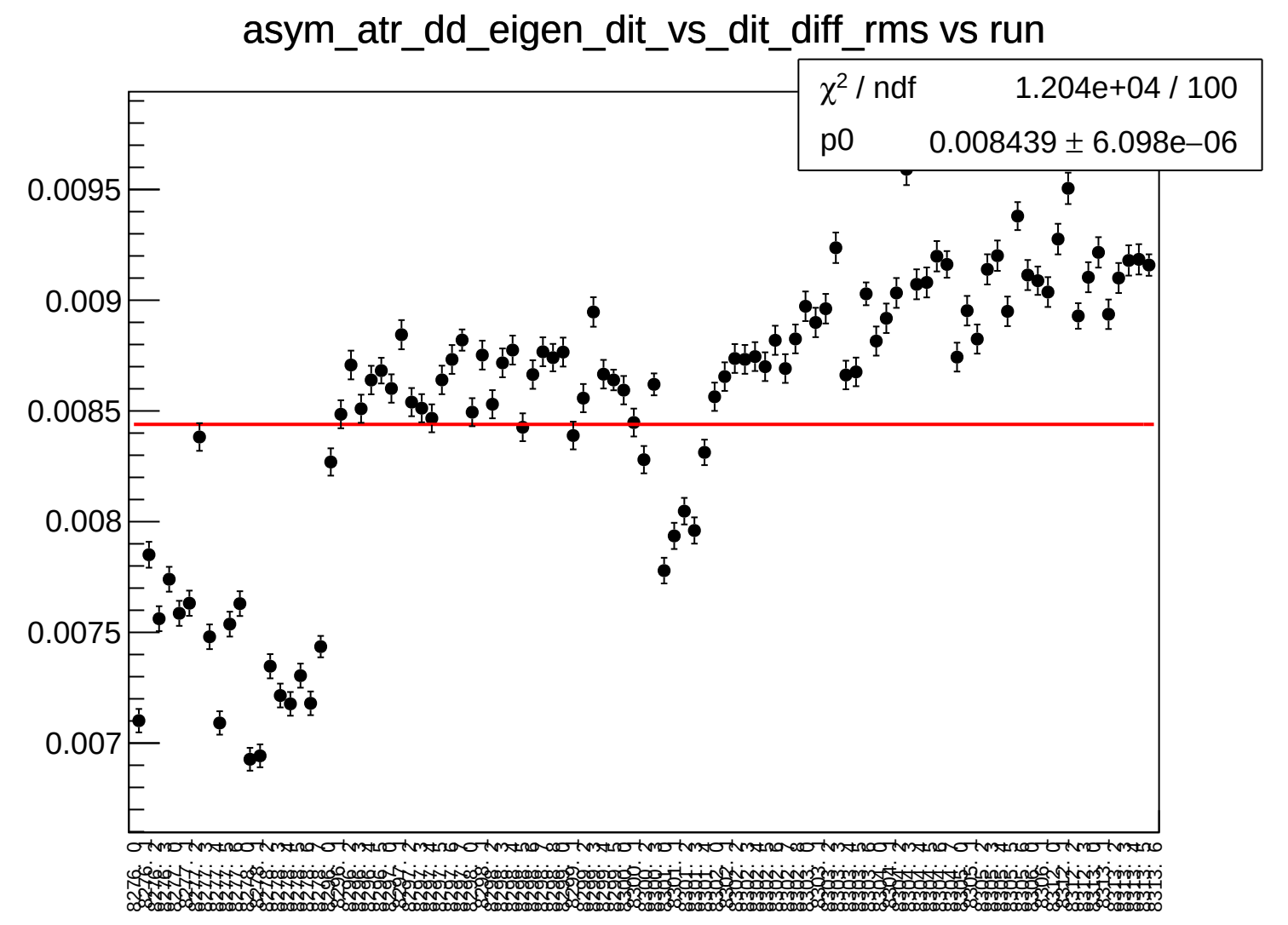

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.281e+04 / 100
p0 149.2 ± 0.1099
500
450
400
350
300
250
200
150
100

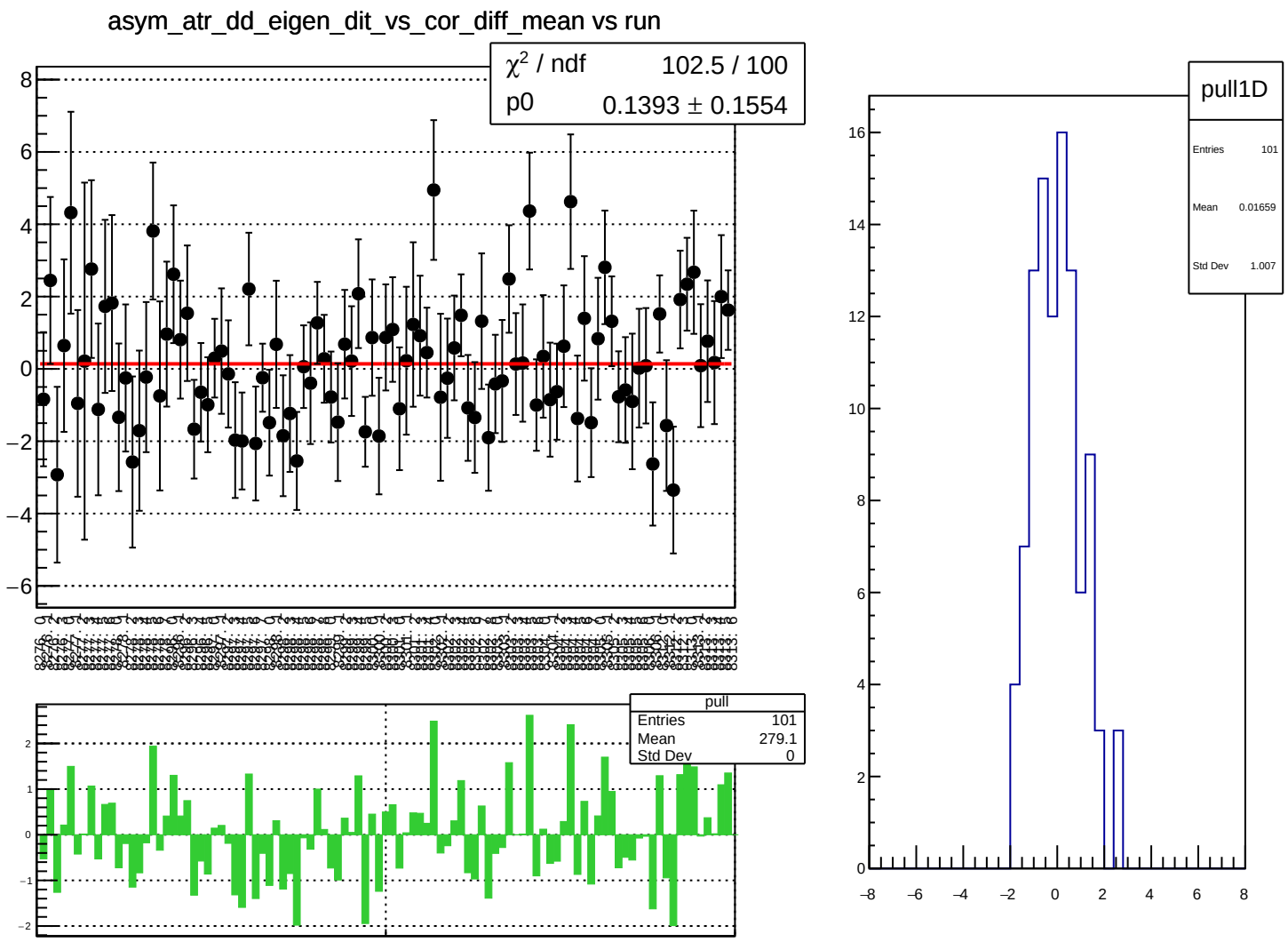

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.5 / 100
p0 0.1393 ± 0.1554
pull
Entries 101
Mean 279.1
Std Dev 0
pull1D
Entries 101
Mean 0.01659
Std Dev 1.007

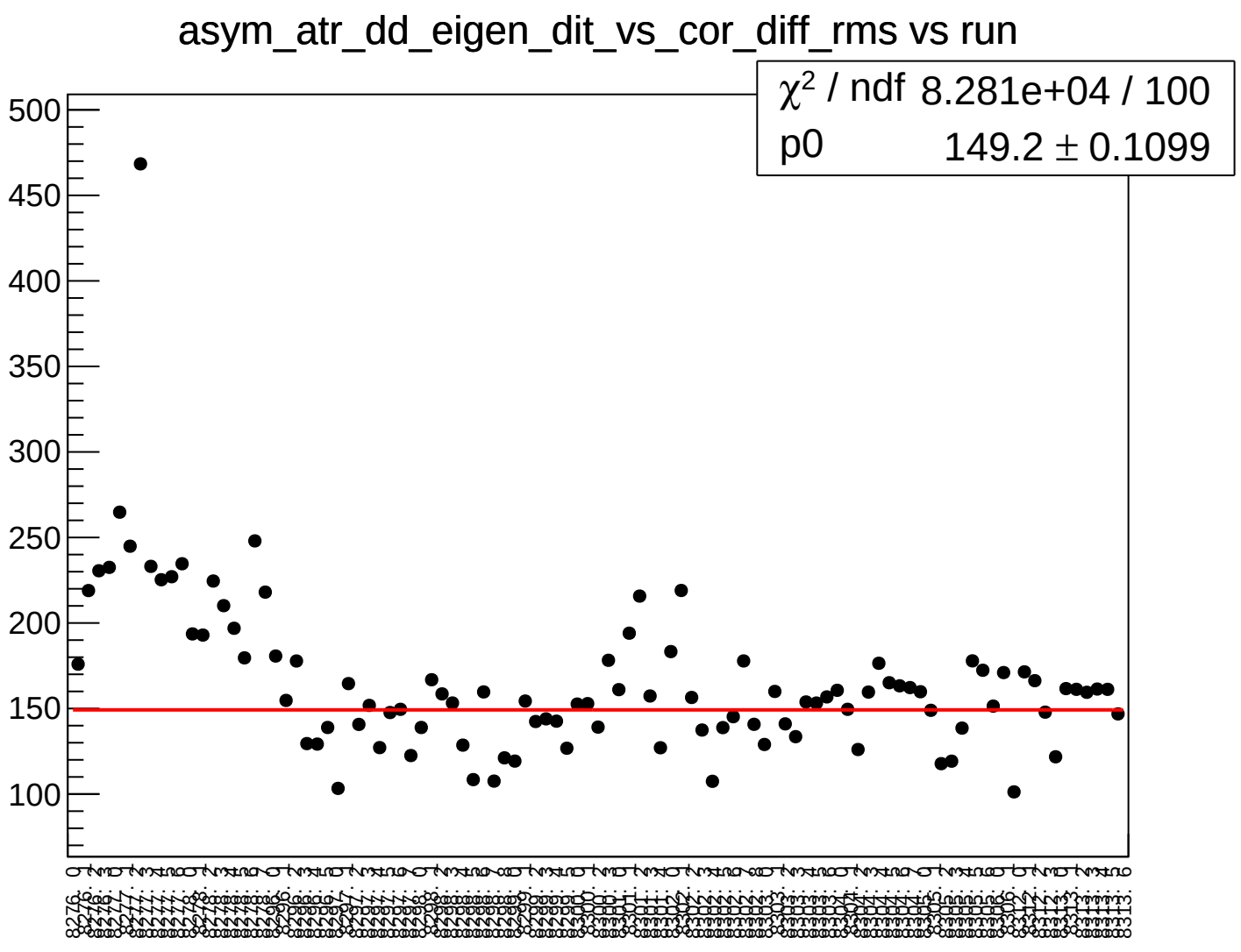

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.281e+04 / 100
p0 149.2 ± 0.1099
500
450
400
350
300
250
200
150
100

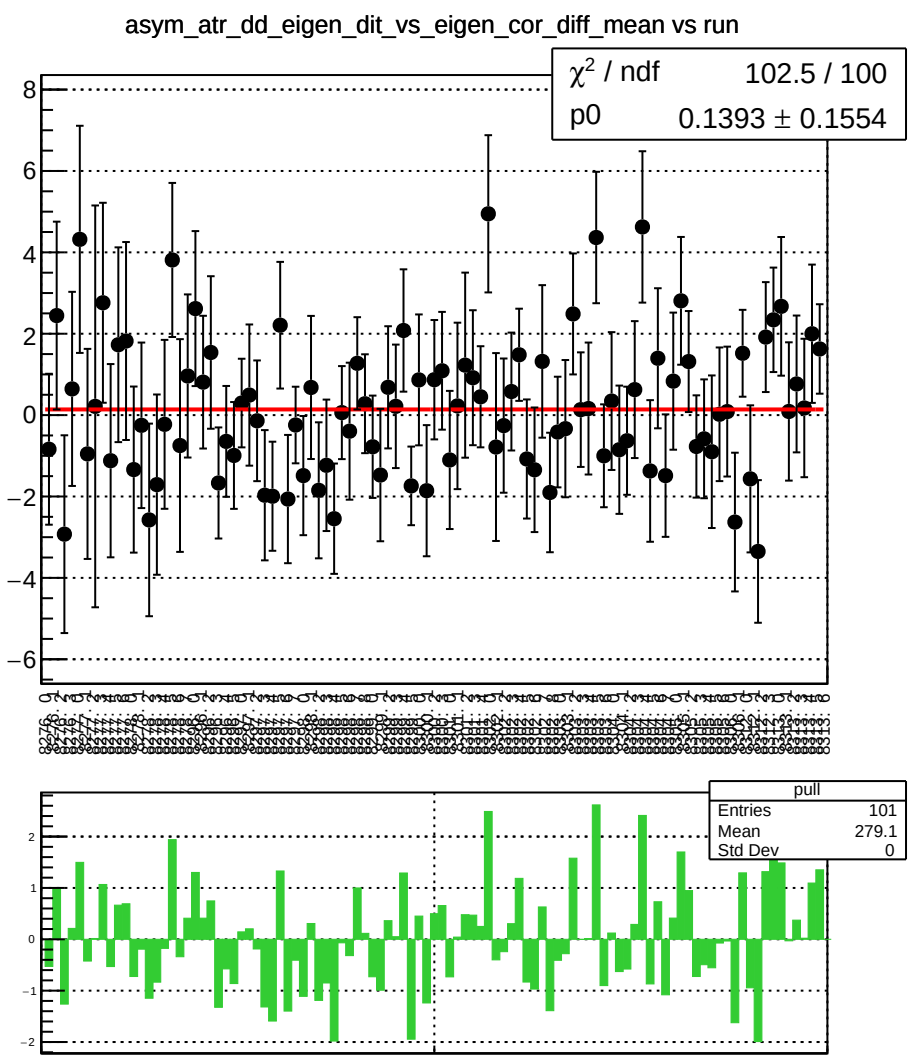

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 104.8 / 100
p0 1.926e−05 ± 8.624e−06
pull
Entries 101
Mean 1733
Std Dev 0

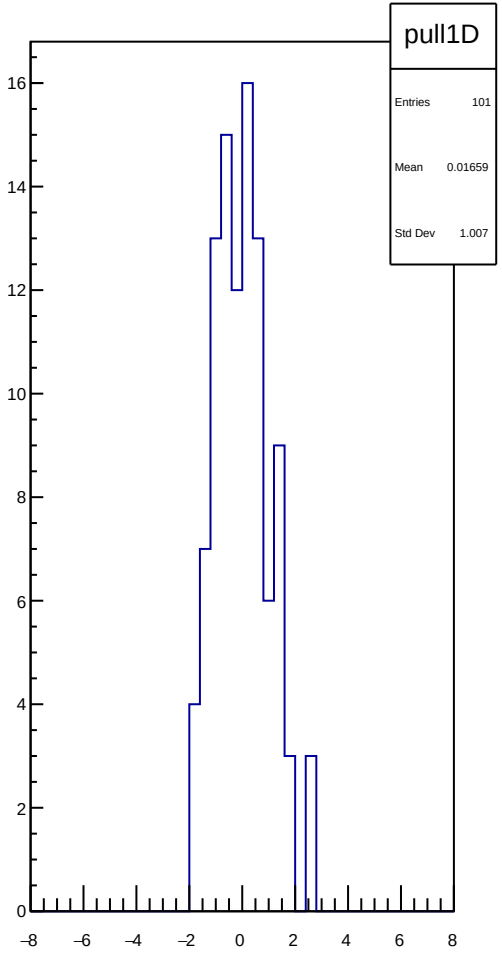

pull1D
Entries 101
Mean 0.003825
Std Dev 1.019

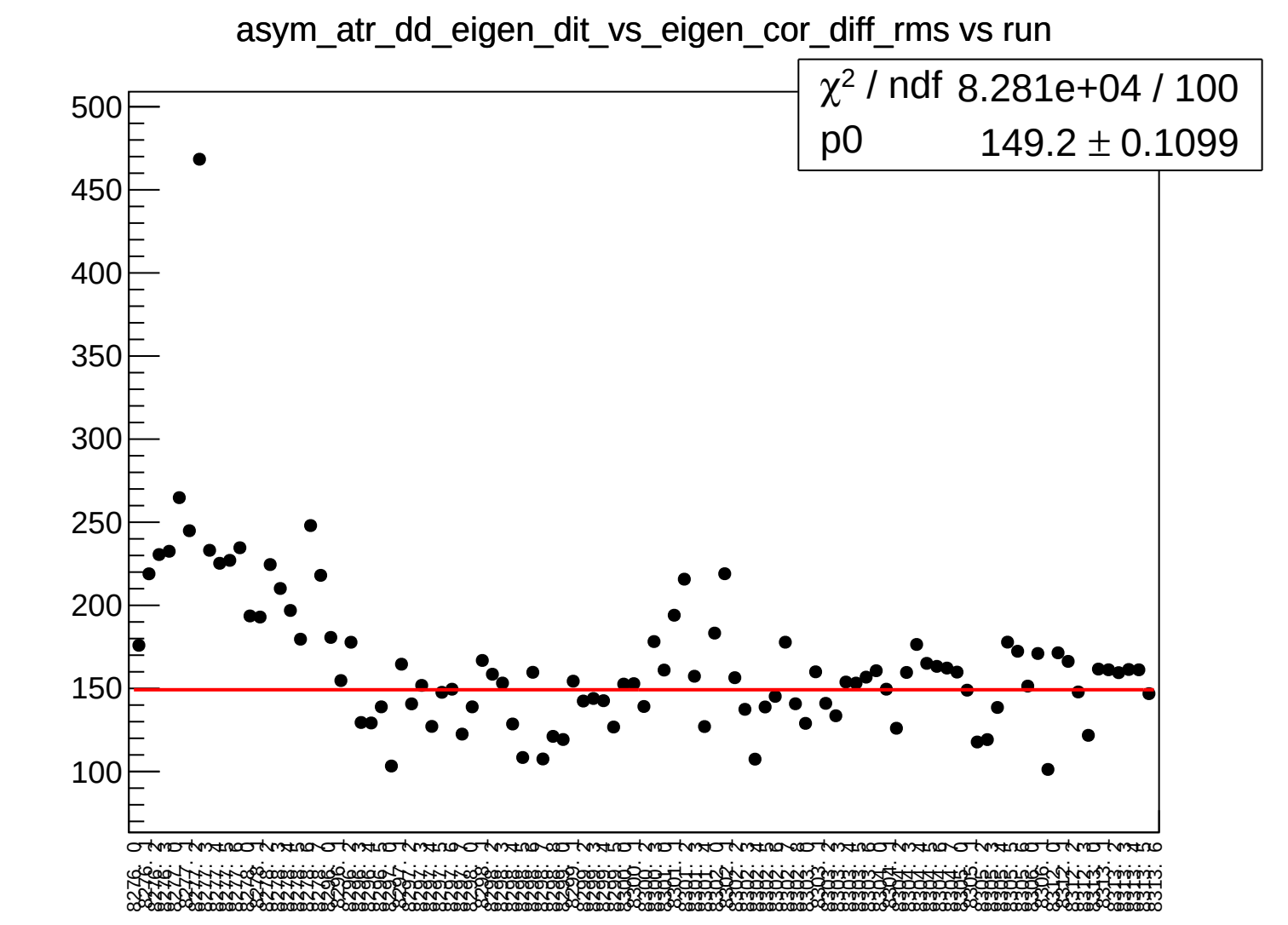

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.204e+04 / 100
p0 0.008439 ± 6.098e−06
0.0095
0.009
0.0085
0.008
0.0075
0.007

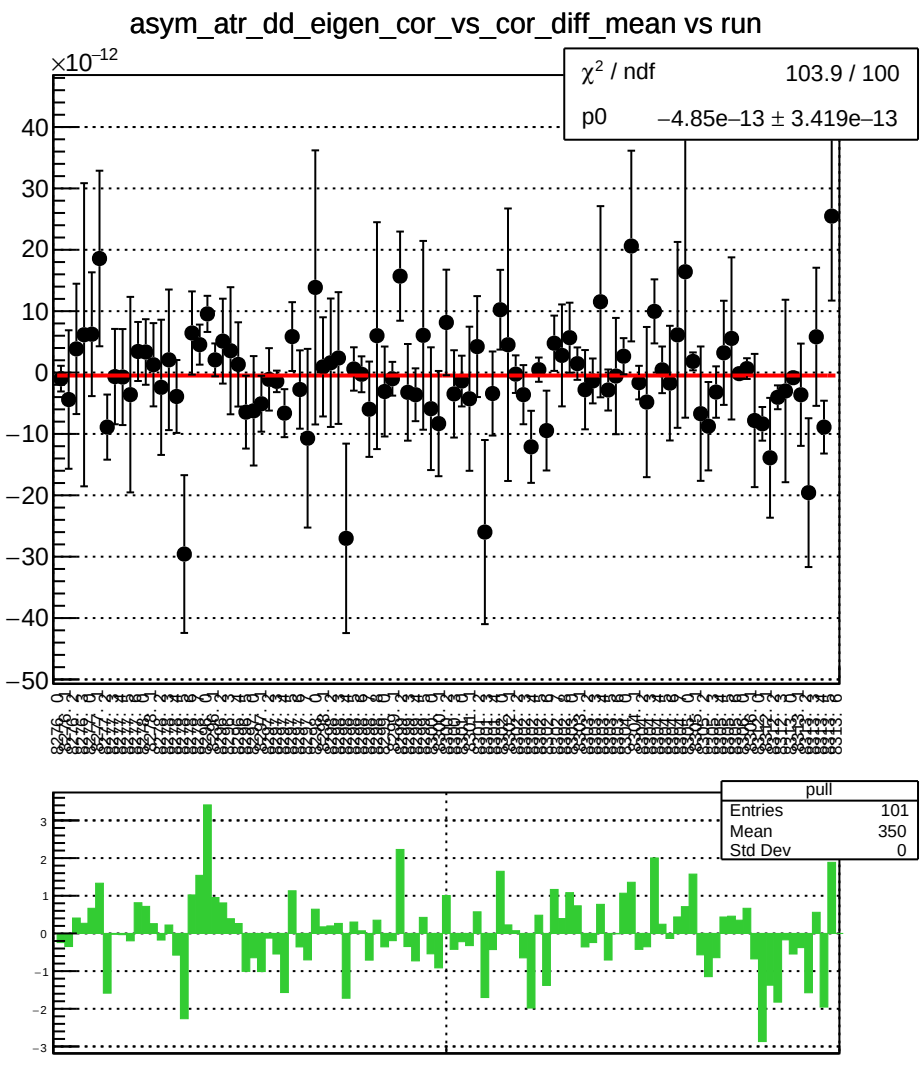

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 102.5 / 100
p0 0.1393 ± 0.1554
pull
Entries 101
Mean 279.1
Std Dev 0
pull1D
Entries 101
Mean 0.01659
Std Dev 1.007

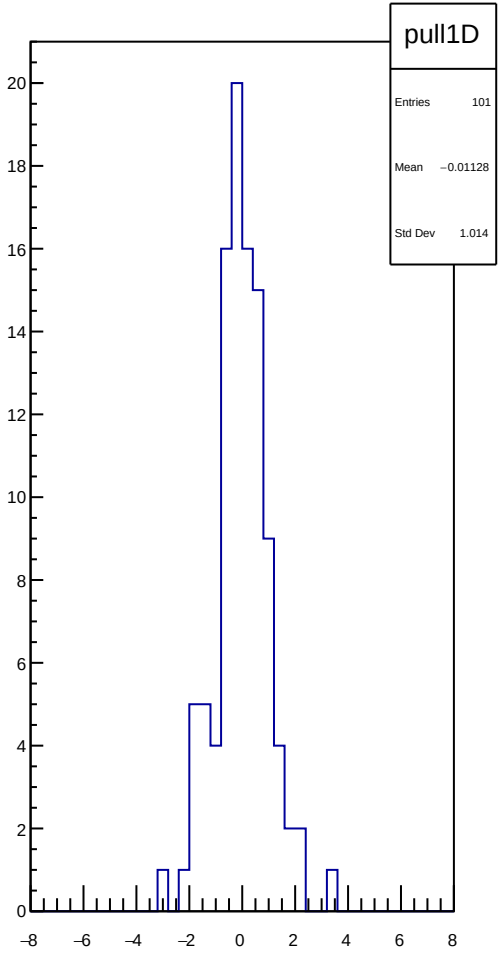

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.281e+04 / 100
p0 149.2 ± 0.1099
500
450
400
350
300
250
200
150
100

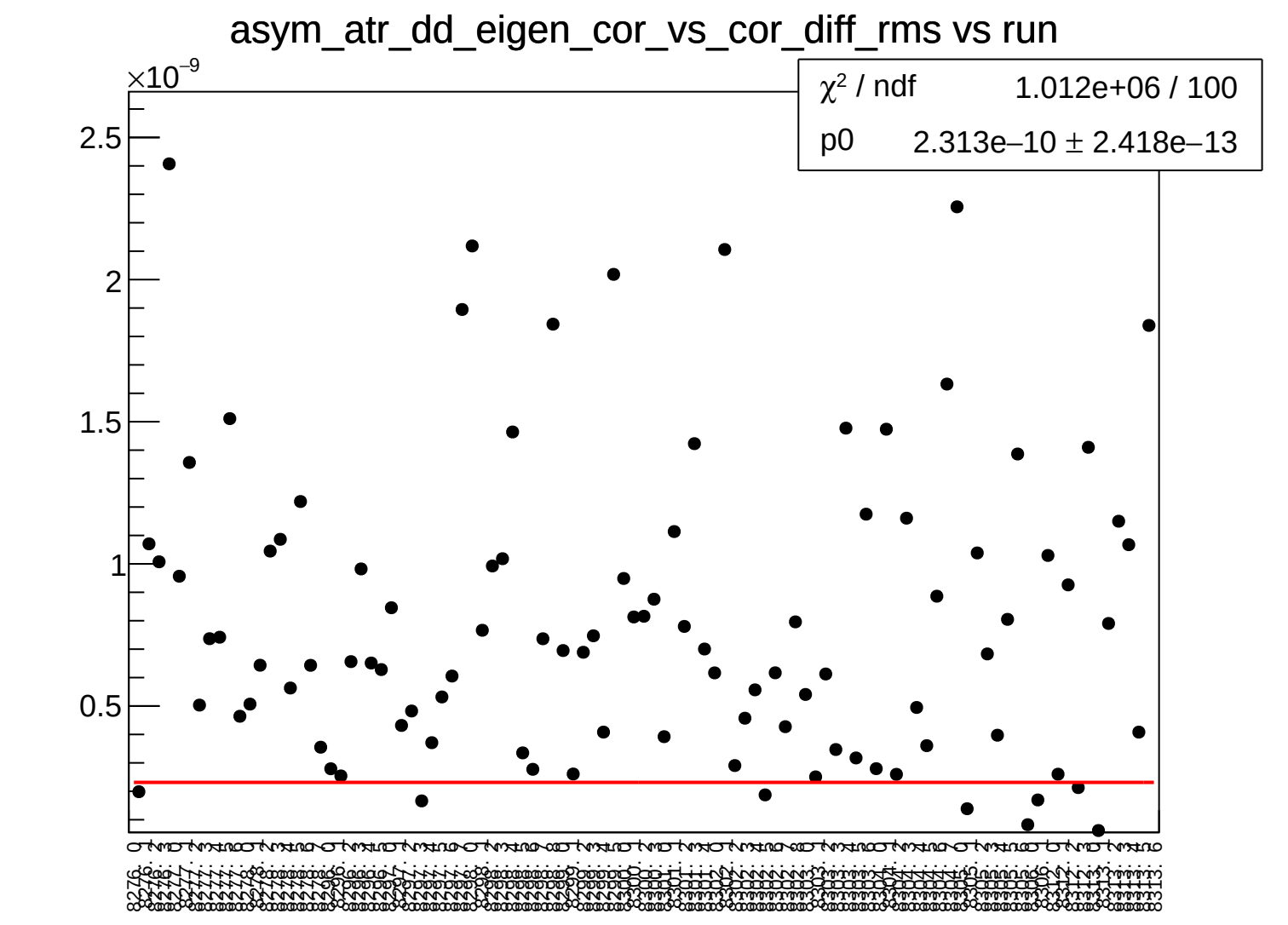

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.5 / 100
p0 0.1393 ± 0.1554
pull
Entries 101
Mean 279.1
Std Dev 0

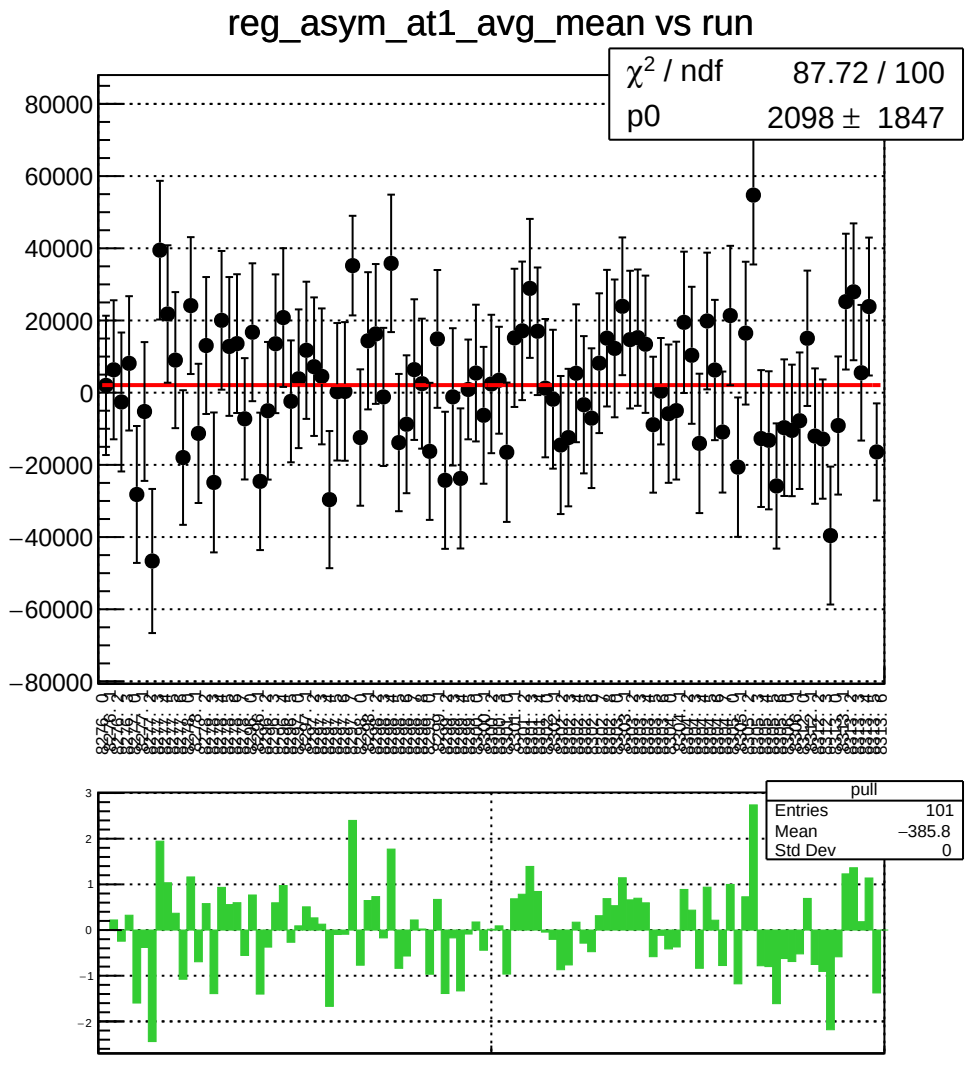

pull1D
Entries 101
Mean 0.01659
Std Dev 1.007

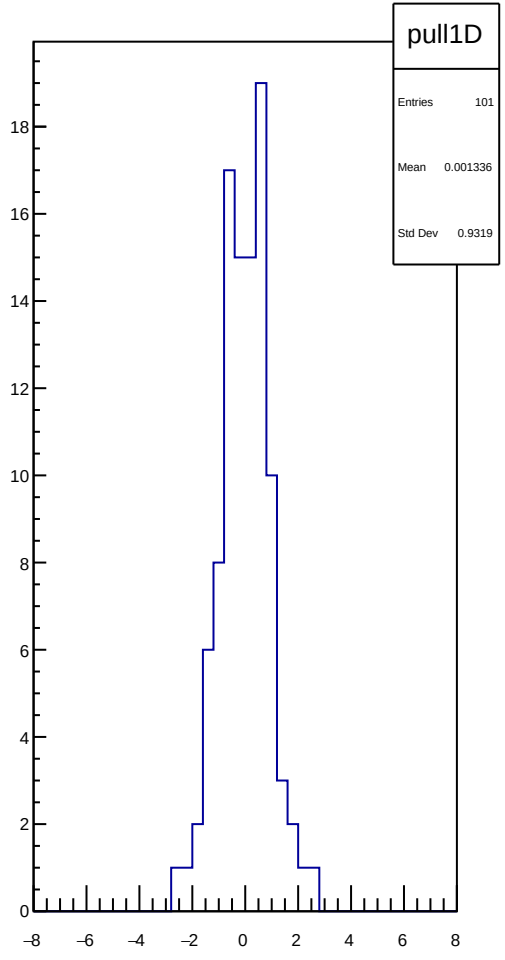

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.281e+04 / 100
p0 149.2 ± 0.1099
500
450
400
350
300
250
200
150
100

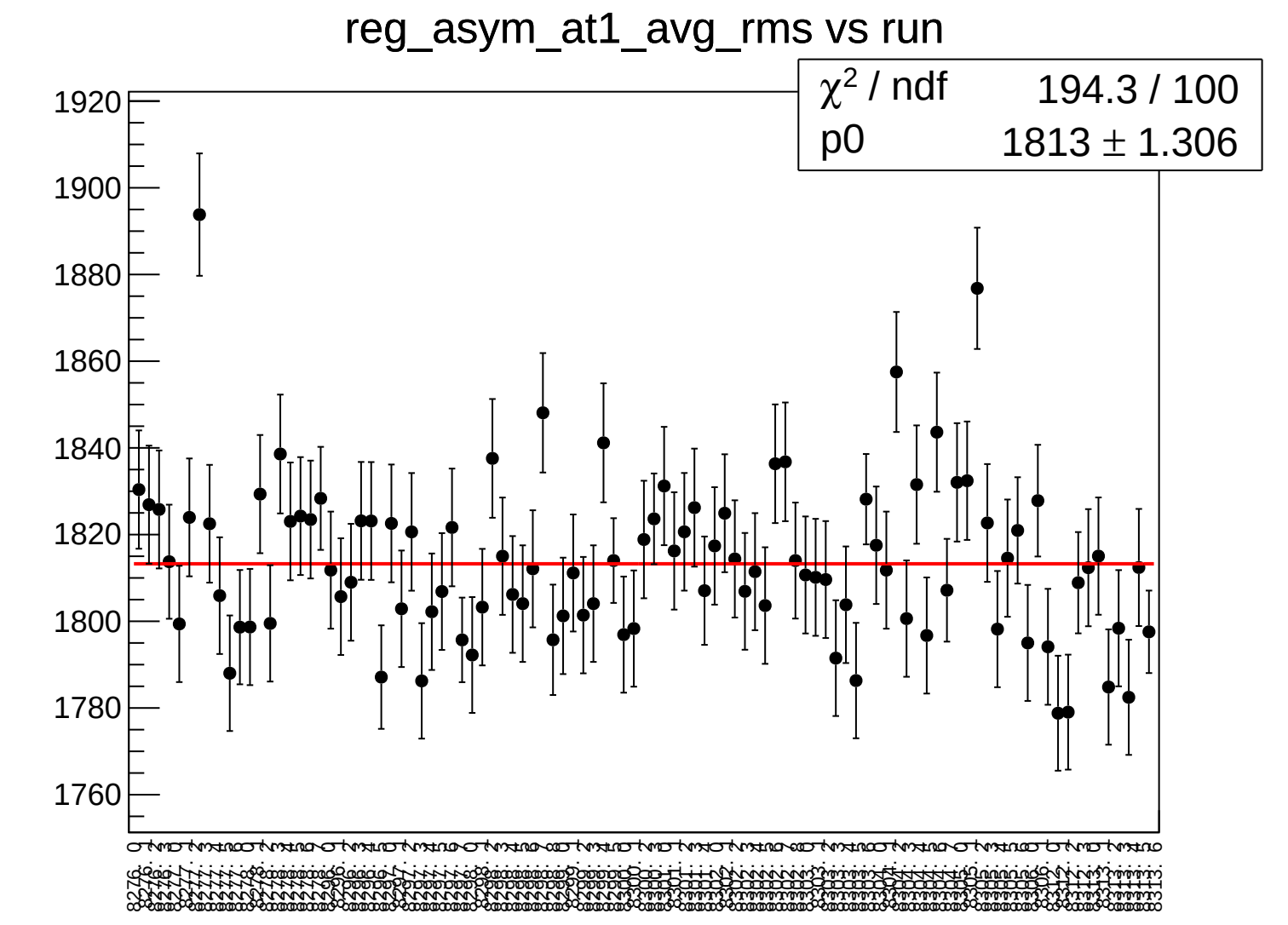

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 103.9 / 100
p0 −4.85e−13 ± 3.419e−13
pull
Entries 101
Mean 350
Std Dev 0

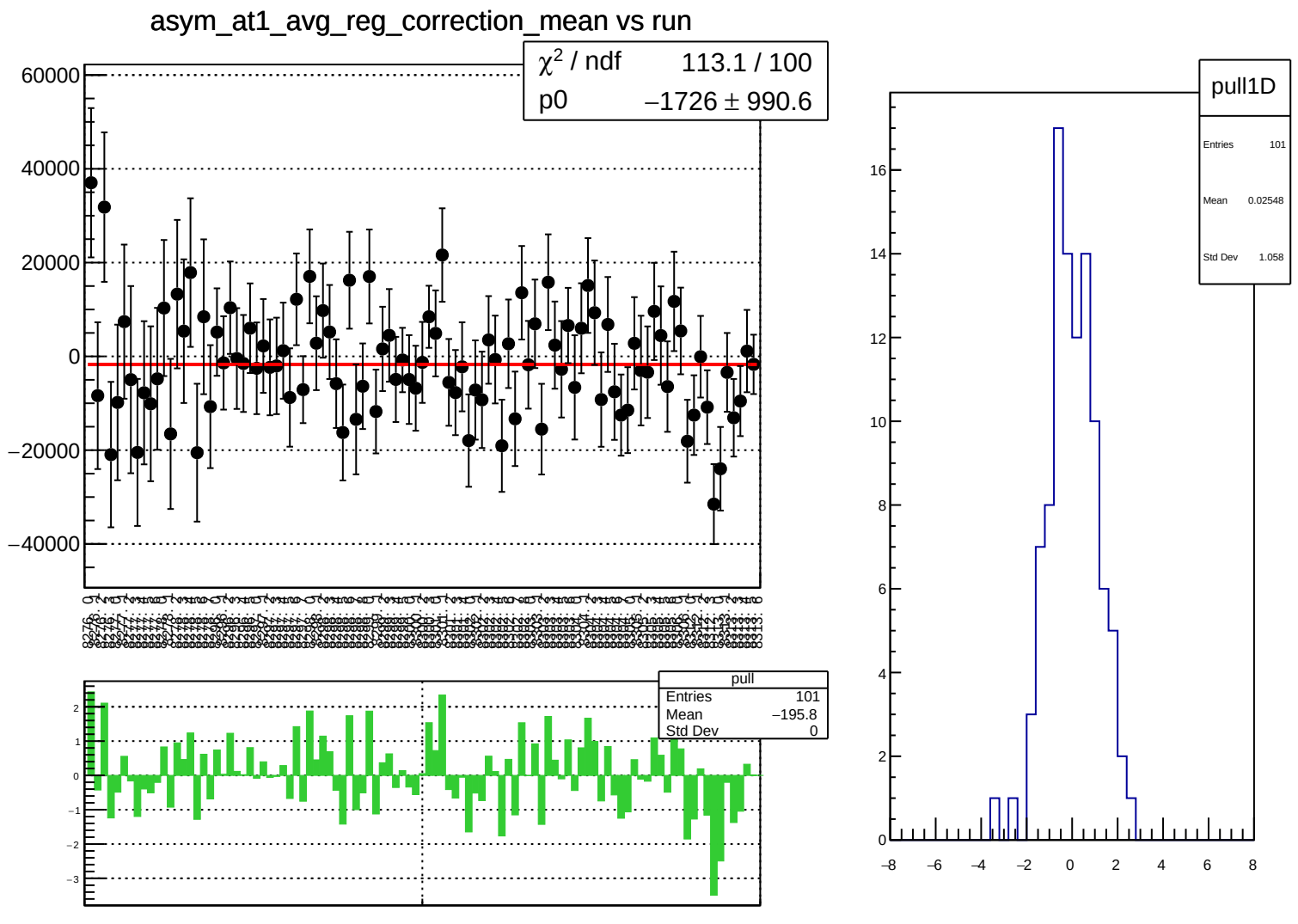

pull1D
Entries 101
Mean −0.01128
Std Dev 1.014

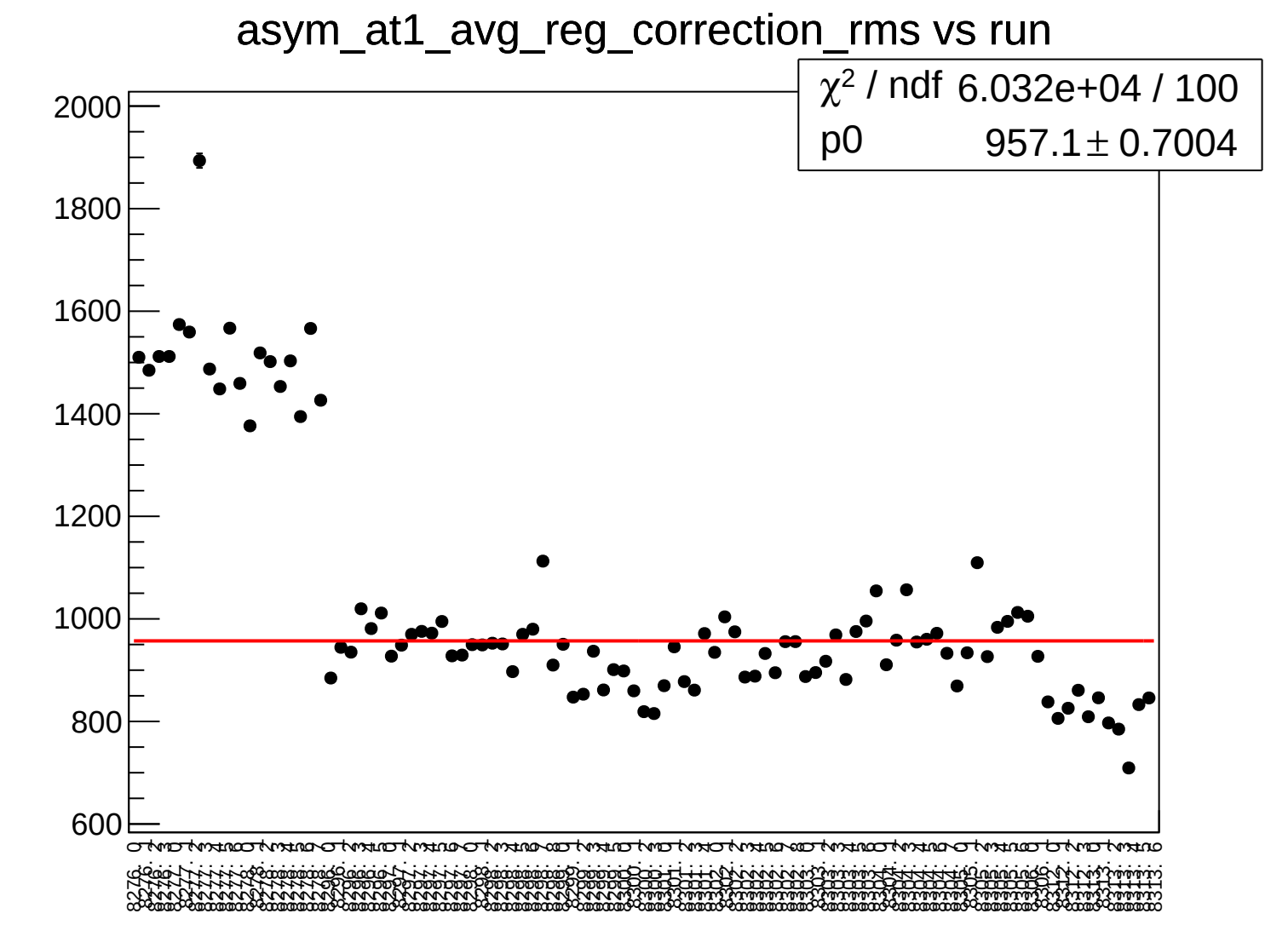

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.012e+06 / 100
p0 2.313e−10 ± 2.418e−13
2.5
2
1.5
1
0.5

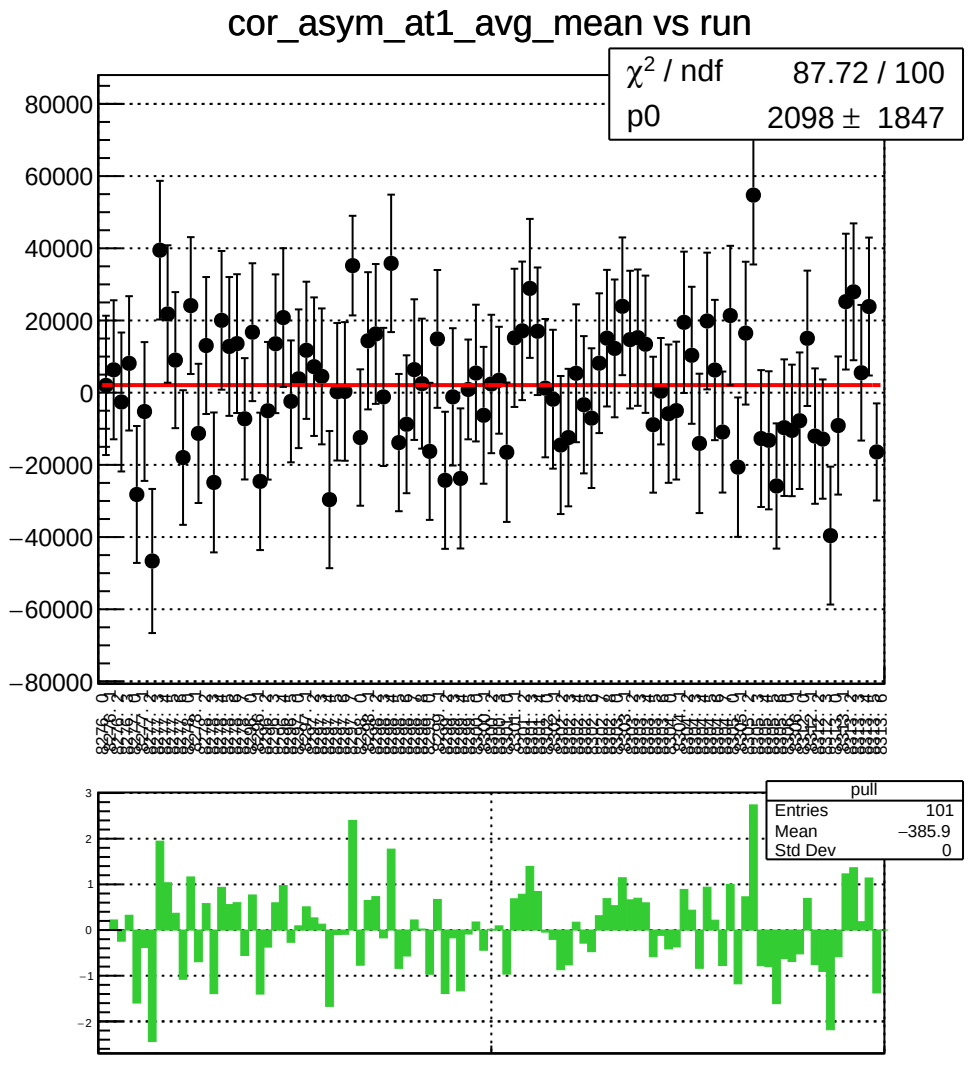

reg_asym_at1_avg_mean vs run
χ² / ndf 87.72 / 100
p0 2098 ± 1847
pull
Entries 101
Mean −385.8
Std Dev 0

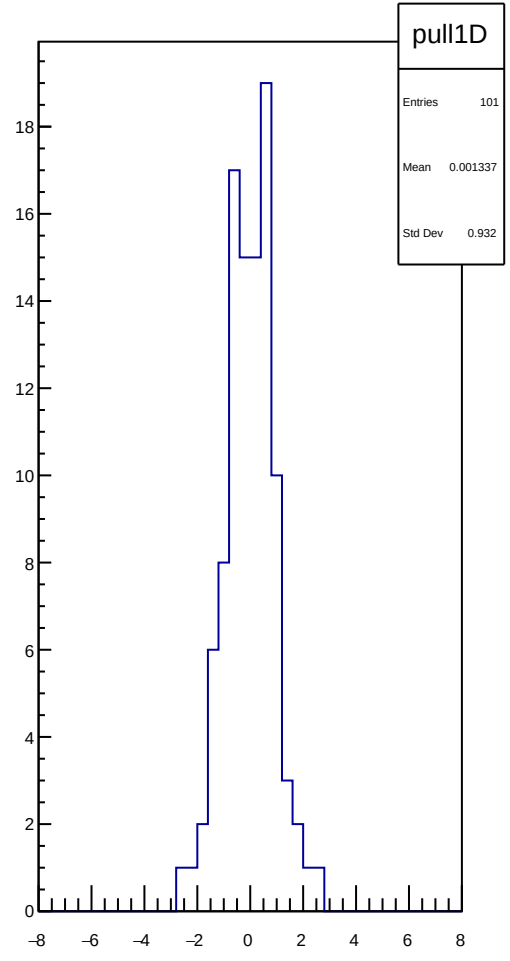

pull1D
Entries 101
Mean 0.001336
Std Dev 0.9319

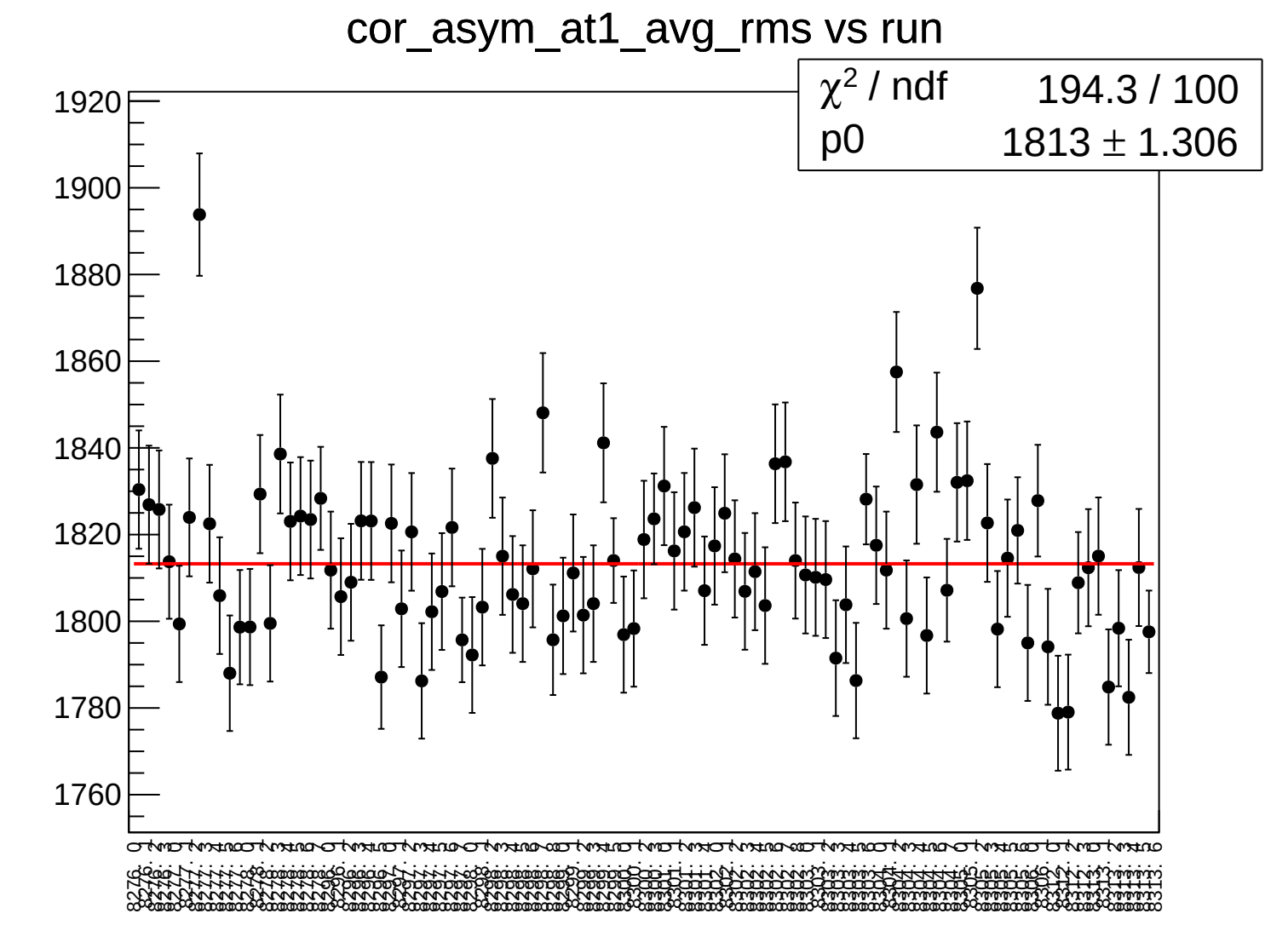

reg_asym_at1_avg_rms vs run
χ^2 / ndf 194.3 / 100
p0 1813 ± 1.306
1920
1900
1880
1860
1840
1820
1800
1780
1760

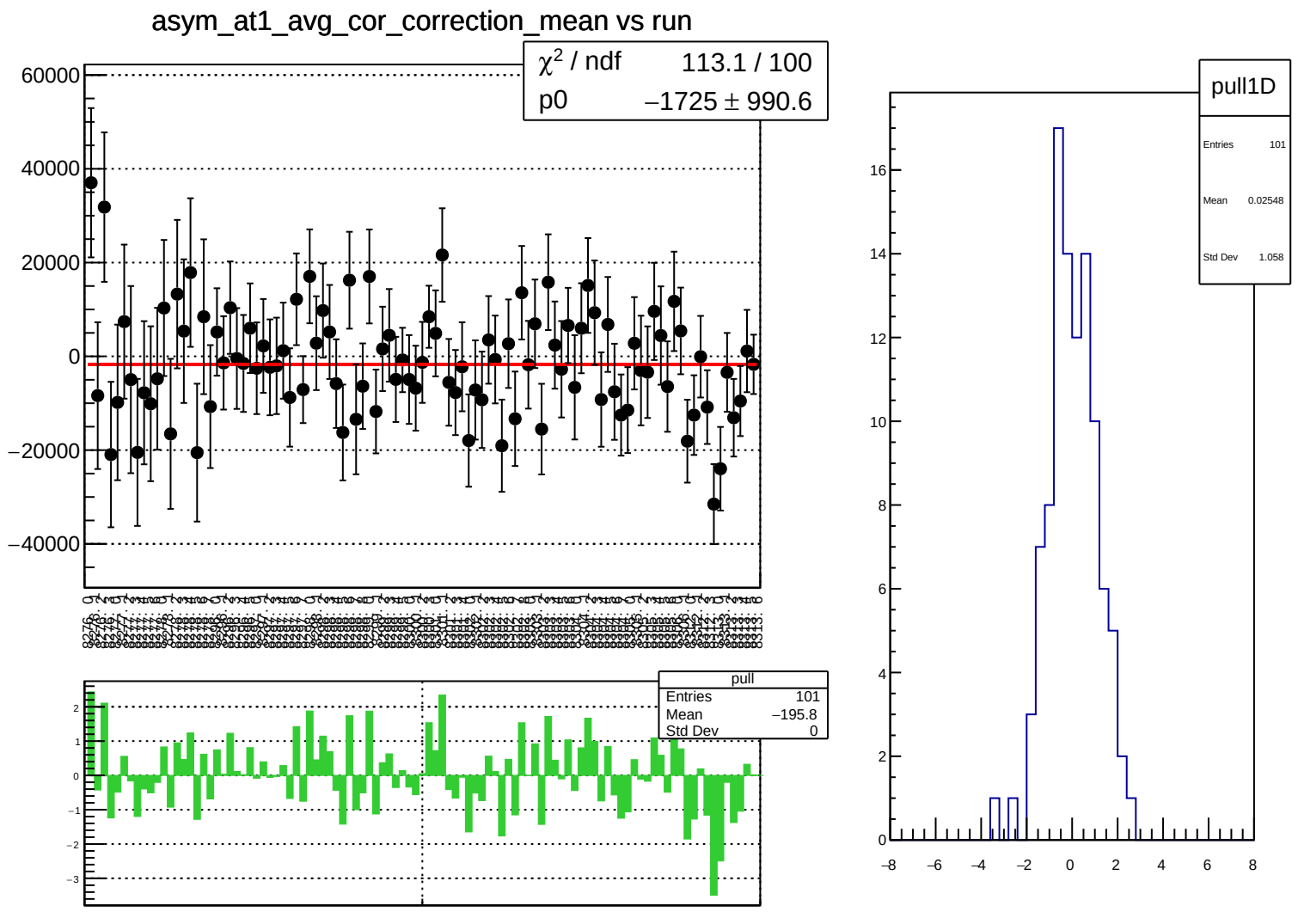

asym_at1_avg_reg_correction_mean vs run
χ² / ndf 113.1 / 100
p0 −1726 ± 990.6
60000
40000
20000
0
−20000
−40000
pull
Entries 101
Mean −195.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.02548
Std Dev 1.058
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

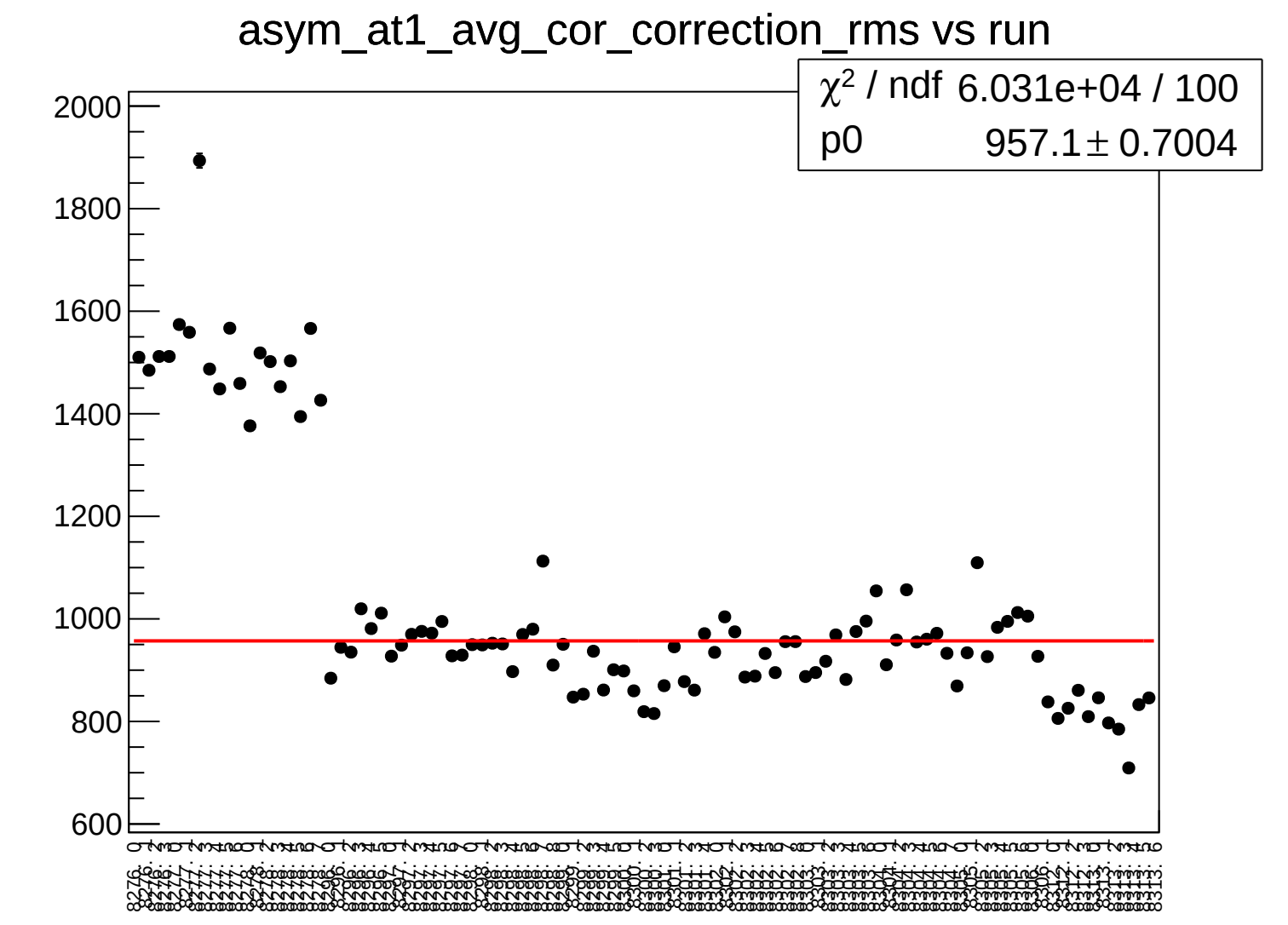

asym_at1_avg_reg_correction_rms vs run
χ² / ndf 6.032e+04 / 100
p0 957.1 ± 0.7004
2000
1800
1600
1400
1200
1000
800
600

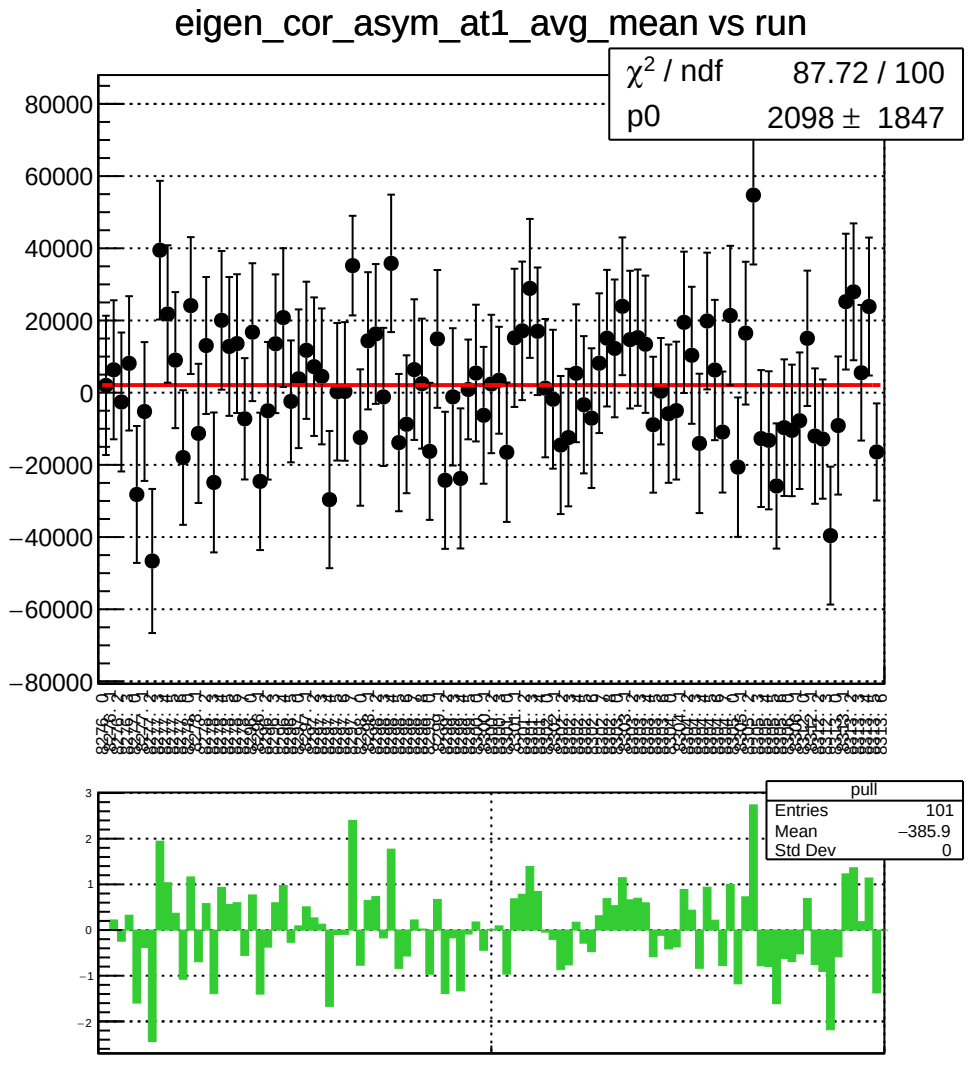

cor_asym_at1_avg_mean vs run
χ² / ndf 87.72 / 100
p0 2098 ± 1847
pull
Entries 101
Mean −385.9
Std Dev 0

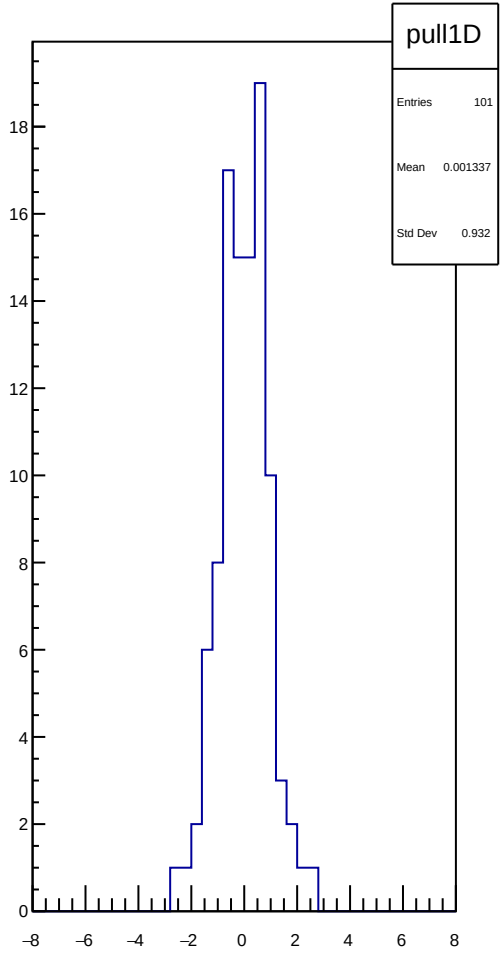

pull1D
Entries 101
Mean 0.001337
Std Dev 0.932


cor_asym_at1_avg_rms vs run
χ^2 / ndf 194.3 / 100
p0 1813 ± 1.306
1920
1900
1880
1860
1840
1820
1800
1780
1760

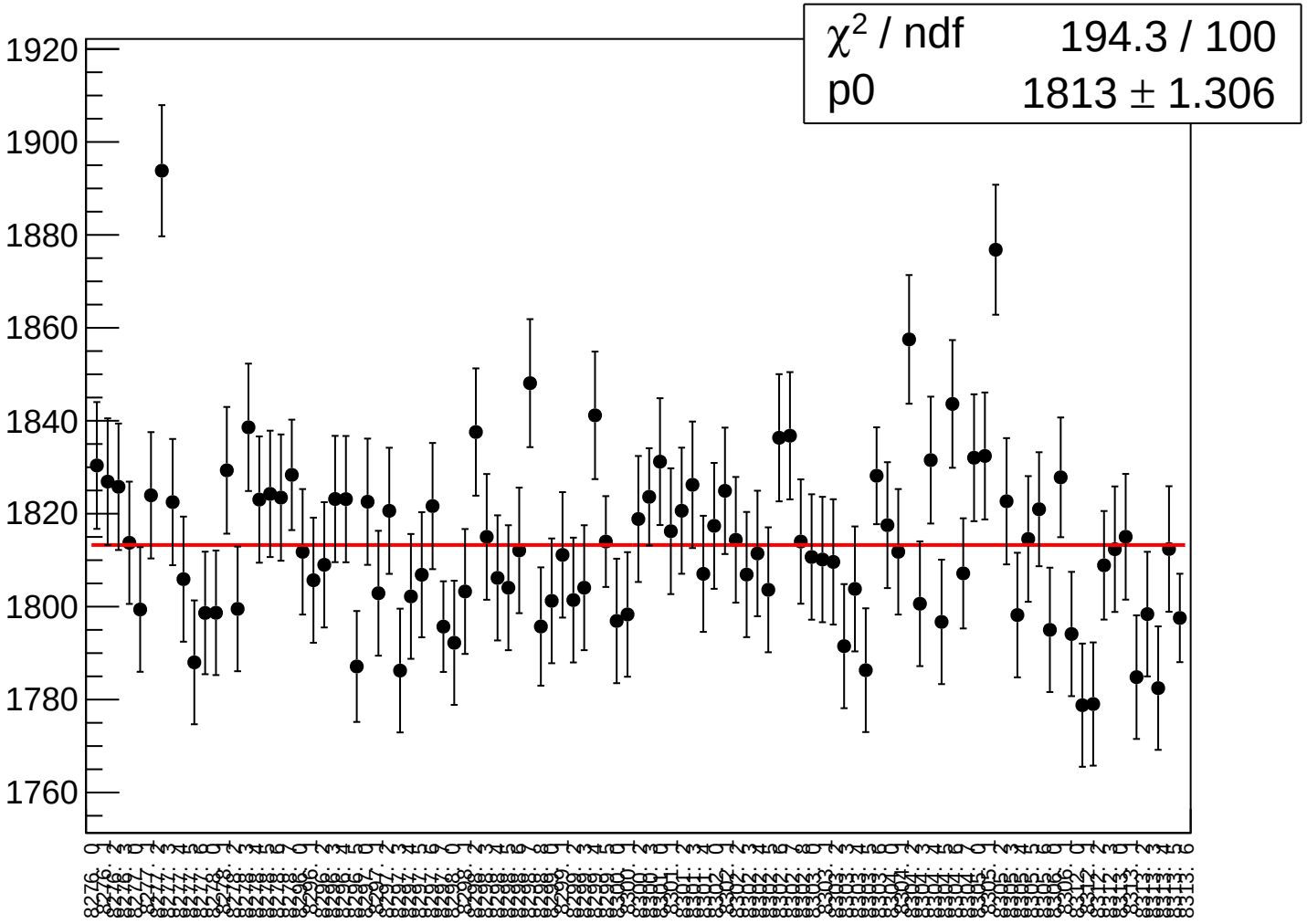

asym_at1_avg_cor_correction_mean vs run
χ² / ndf 113.1 / 100
p0 −1725 ± 990.6
60000
40000
20000
0
−20000
−40000
pull
Entries 101
Mean −195.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.02548
Std Dev 1.058
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

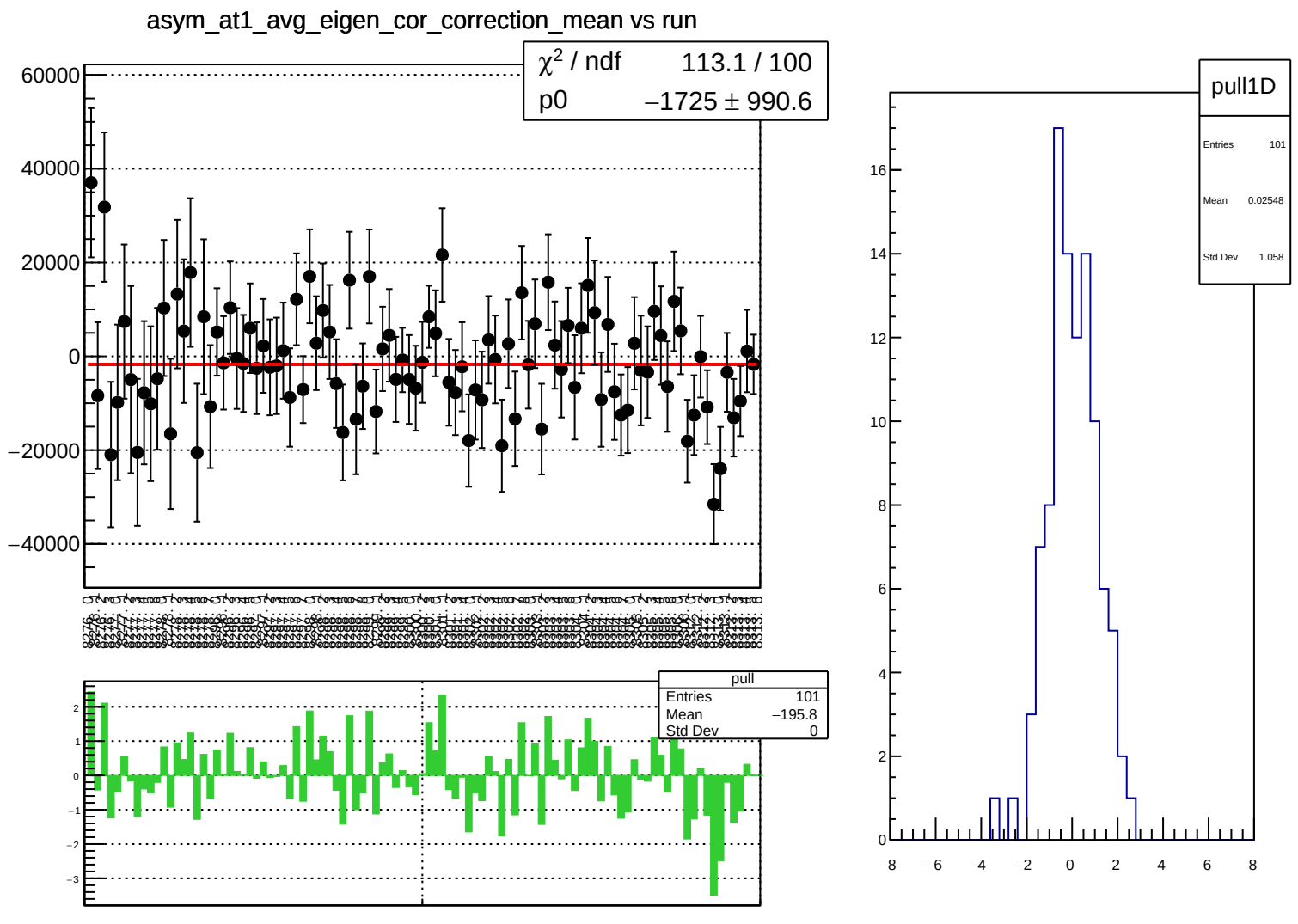

asym_at1_avg_cor_correction_rms vs run
χ² / ndf 6.031e+04 / 100
p0 957.1 ± 0.7004
2000
1800
1600
1400
1200
1000
800
600

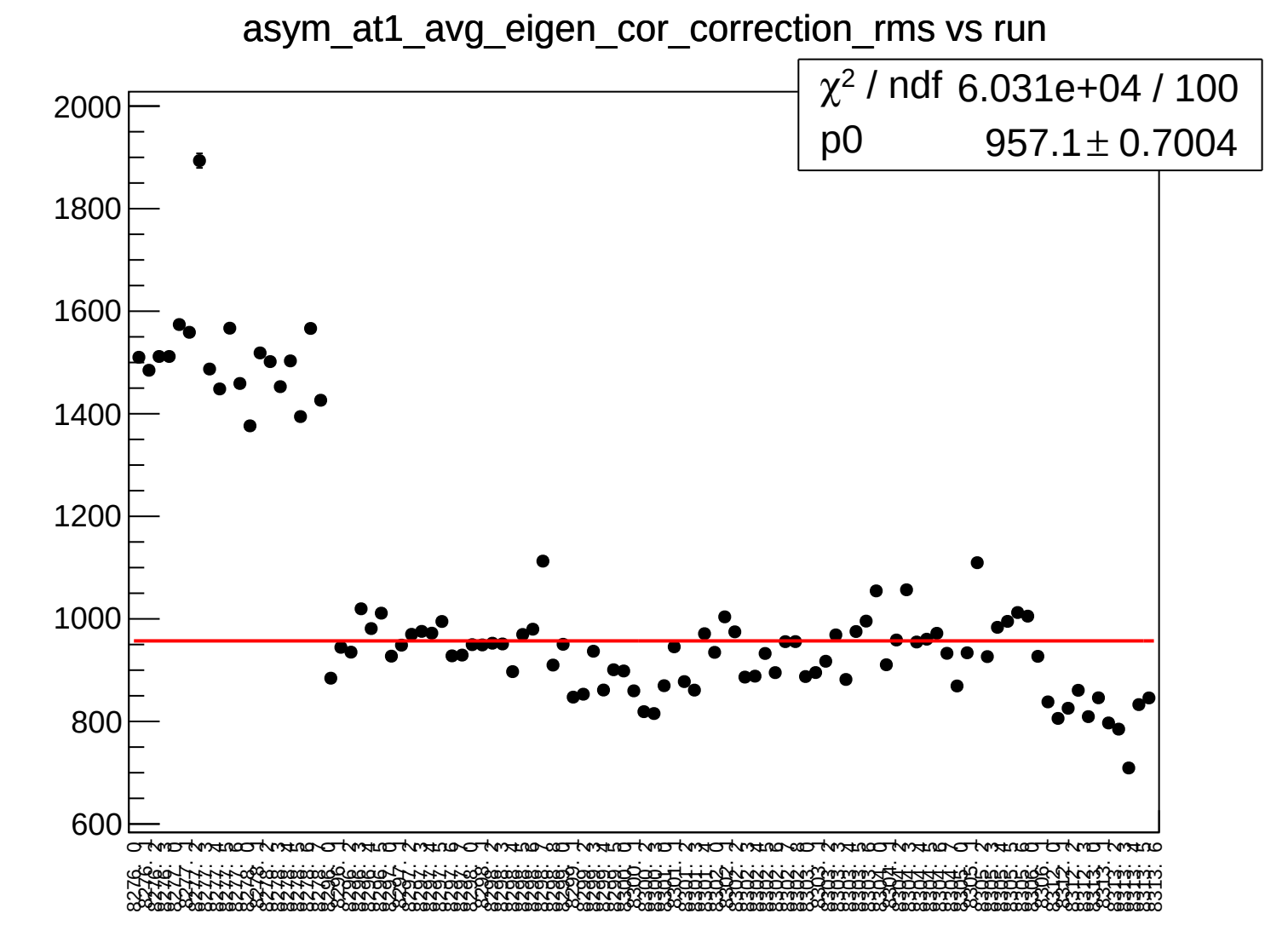

eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 87.72 / 100
p0 2098 ± 1847
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 101
Mean −385.9
Std Dev 0
3
2
1
0
−1
−2

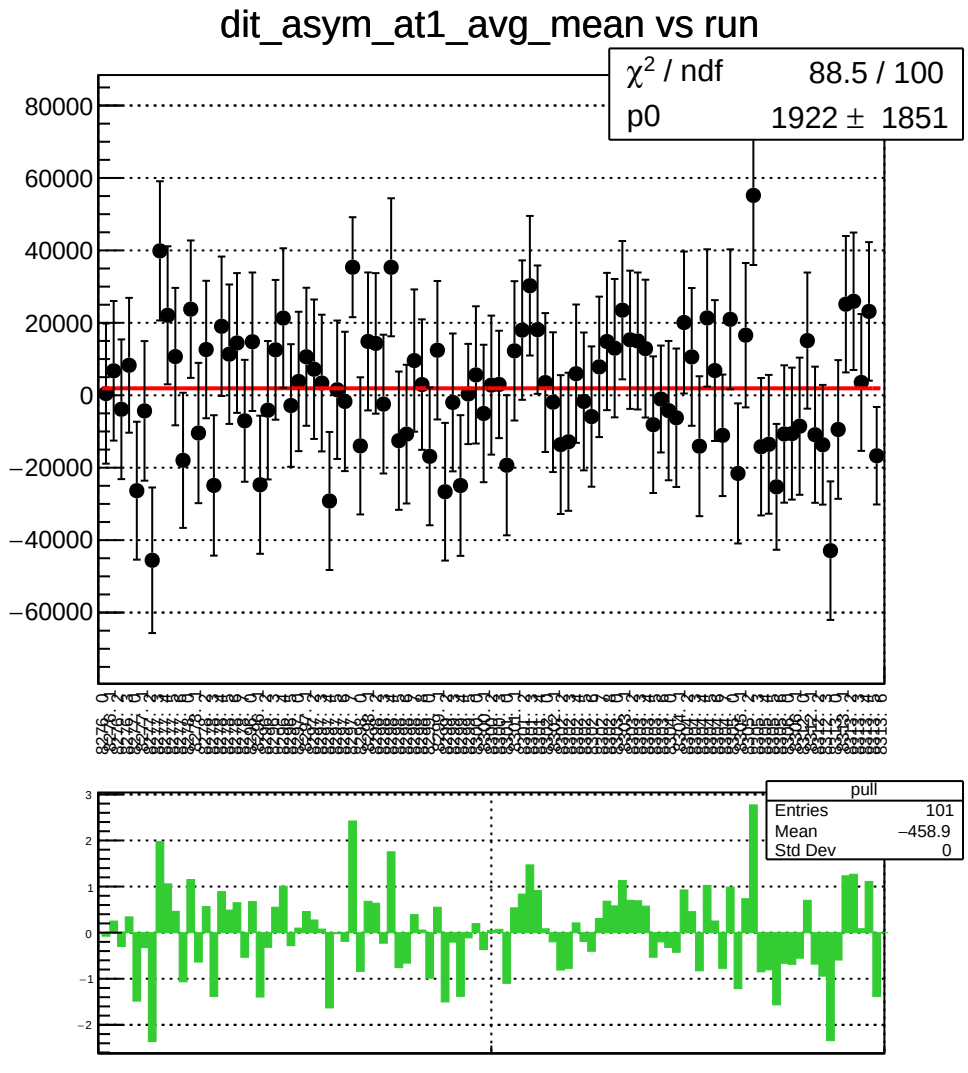

pull1D
Entries 101
Mean 0.001337
Std Dev 0.932
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

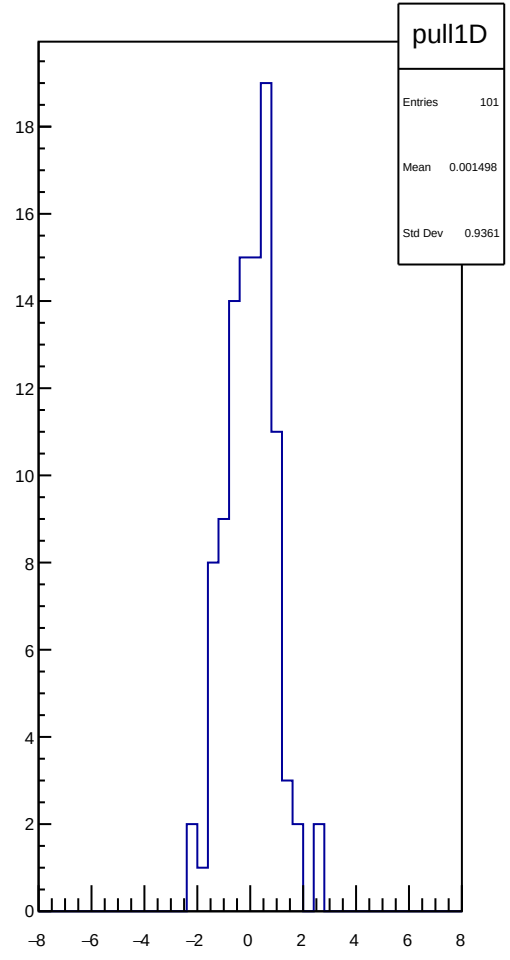
eigen_cor_asym_at1_avg_rms vs run

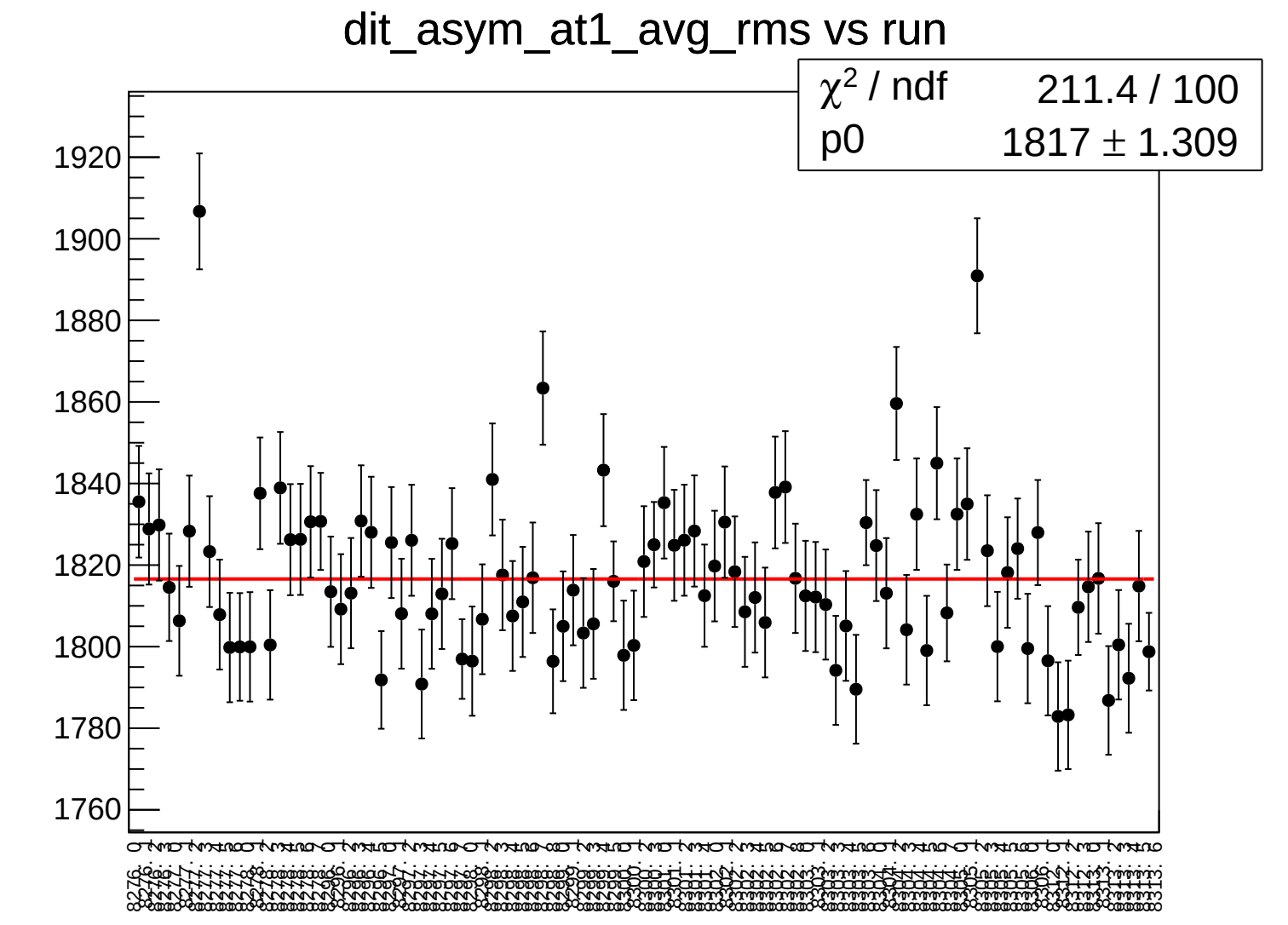


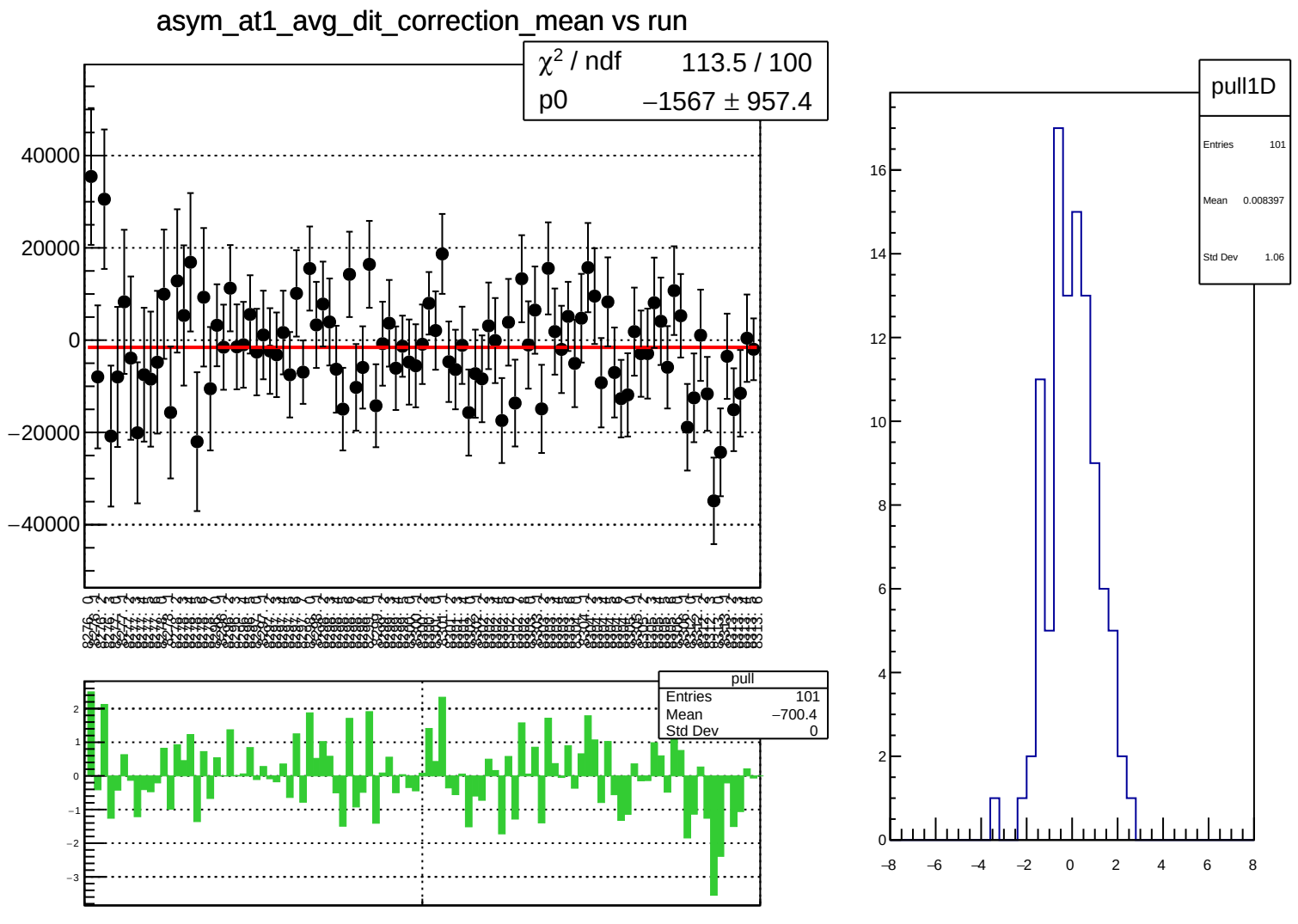

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 113.1 / 100
p0 −1725 ± 990.6
60000
40000
20000
0
−20000
−40000
pull
Entries 101
Mean −195.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.02548
Std Dev 1.058
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

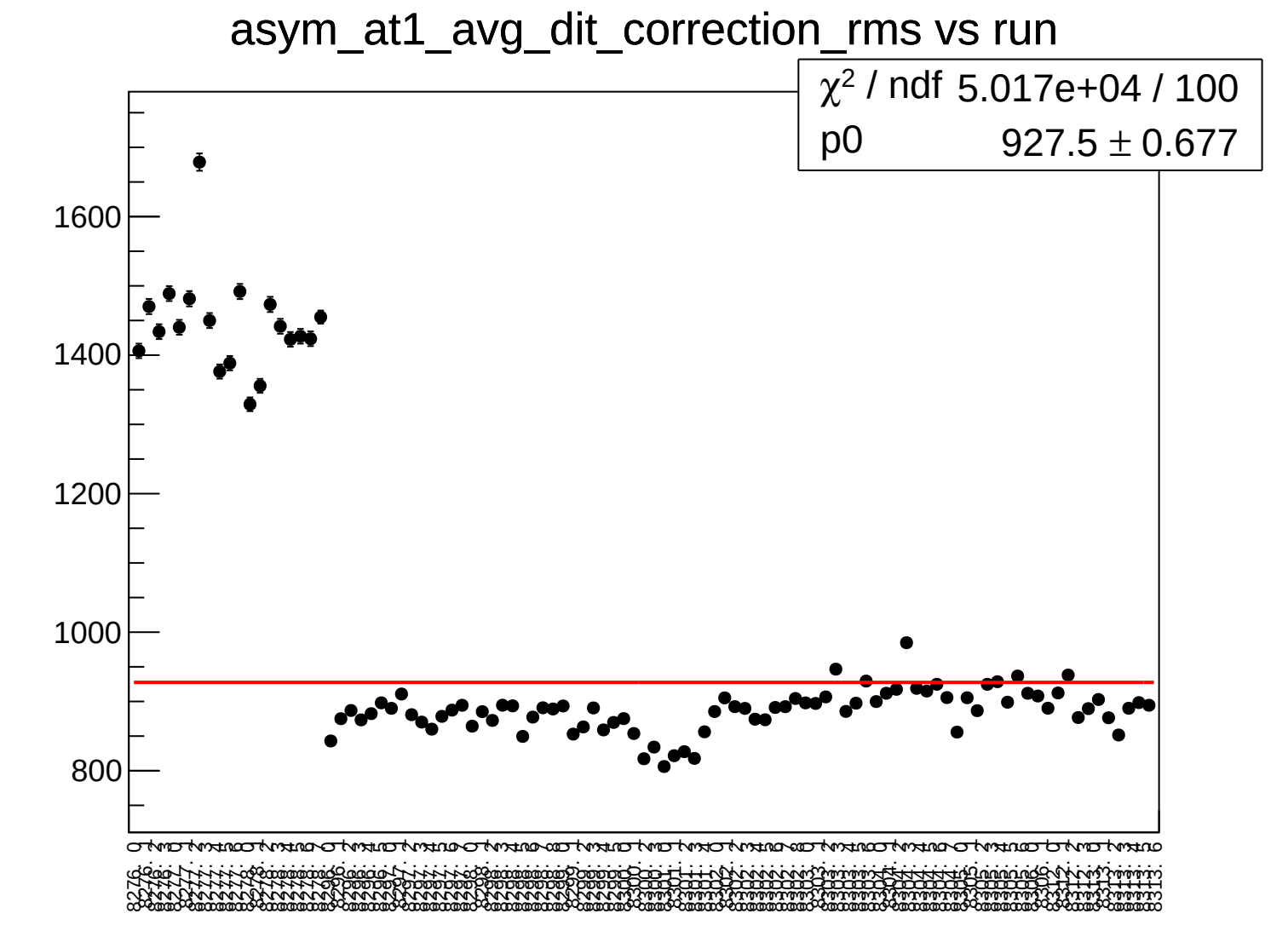

asym_at1_avg_eigen_cor_correction_rms vs run
χ² / ndf 6.031e+04 / 100
p0 957.1 ± 0.7004
2000
1800
1600
1400
1200
1000
800
600

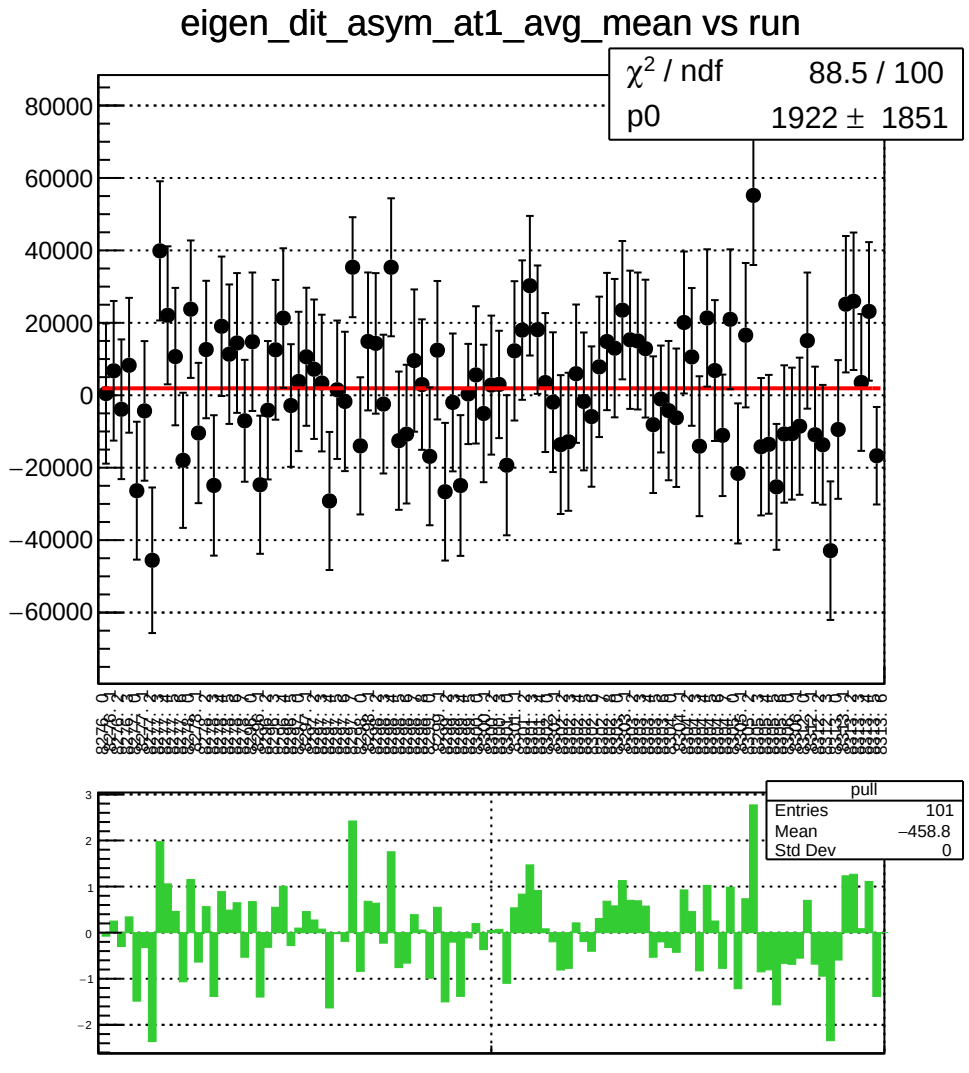

dit_asym_at1_avg_mean vs run
χ² / ndf 88.5 / 100
p0 1922 ± 1851
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −458.9
Std Dev 0
3
2
1
0
−1
−2

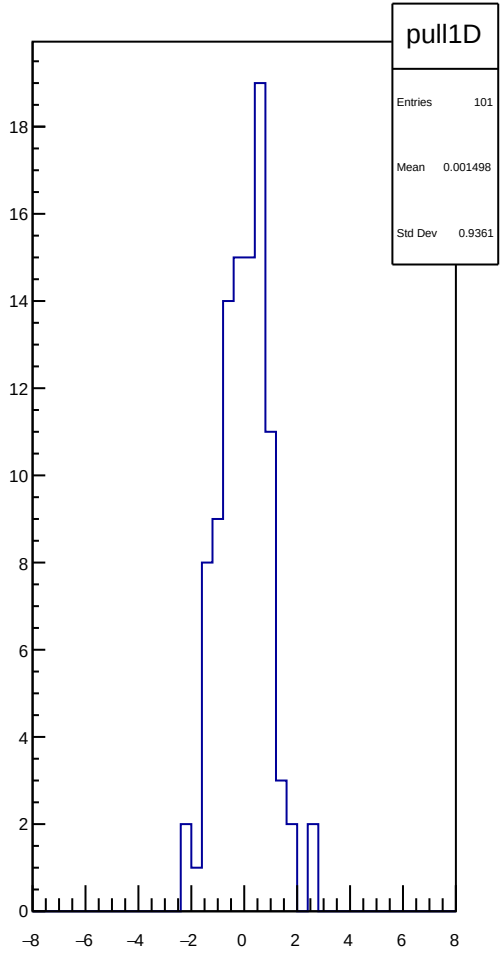

pull1D
Entries 101
Mean 0.001498
Std Dev 0.9361
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

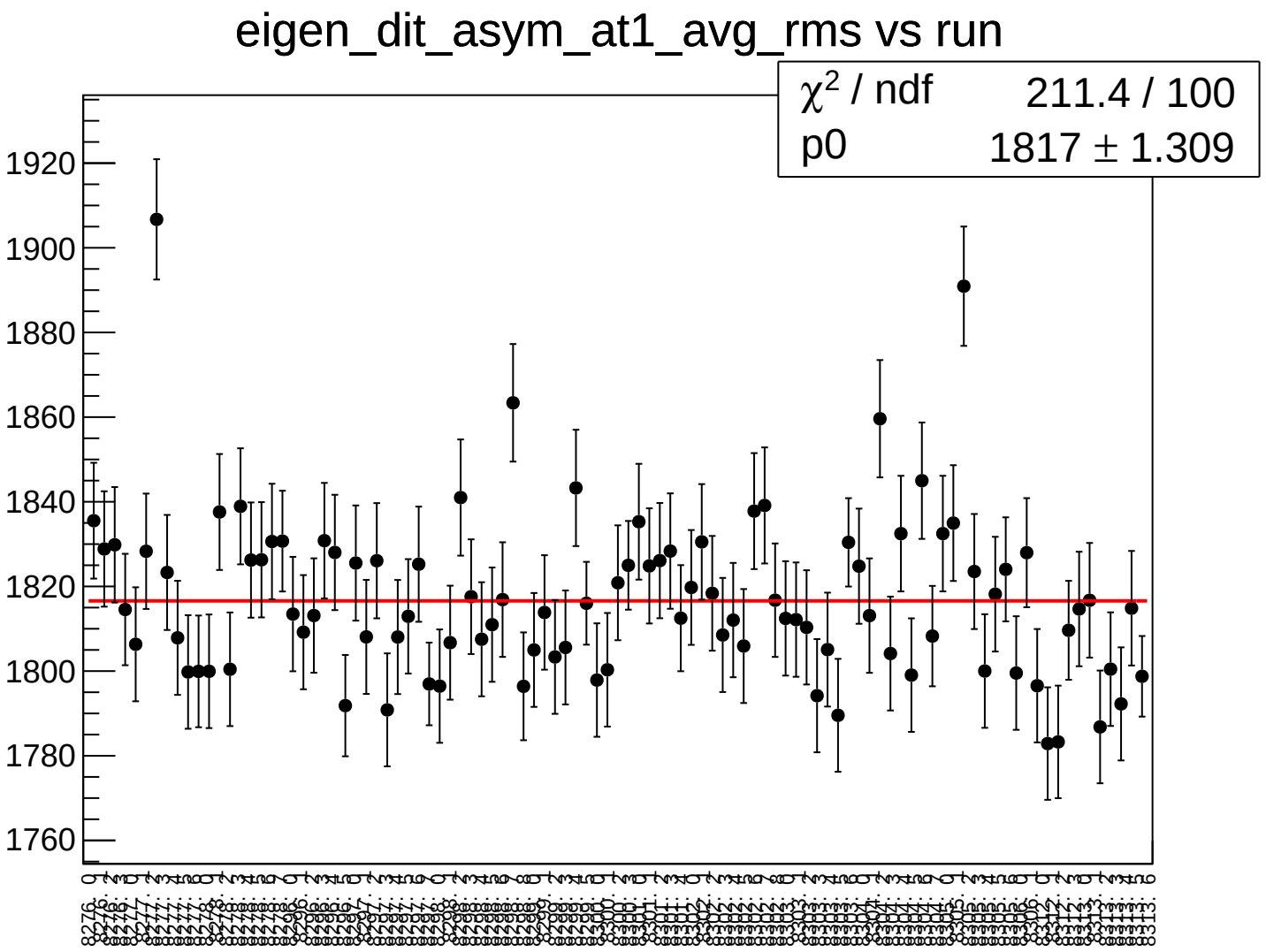

dit_asym_at1_avg_rms vs run
χ^2 / ndf 211.4 / 100
p0 1817 ± 1.309
1920
1900
1880
1860
1840
1820
1800
1780
1760

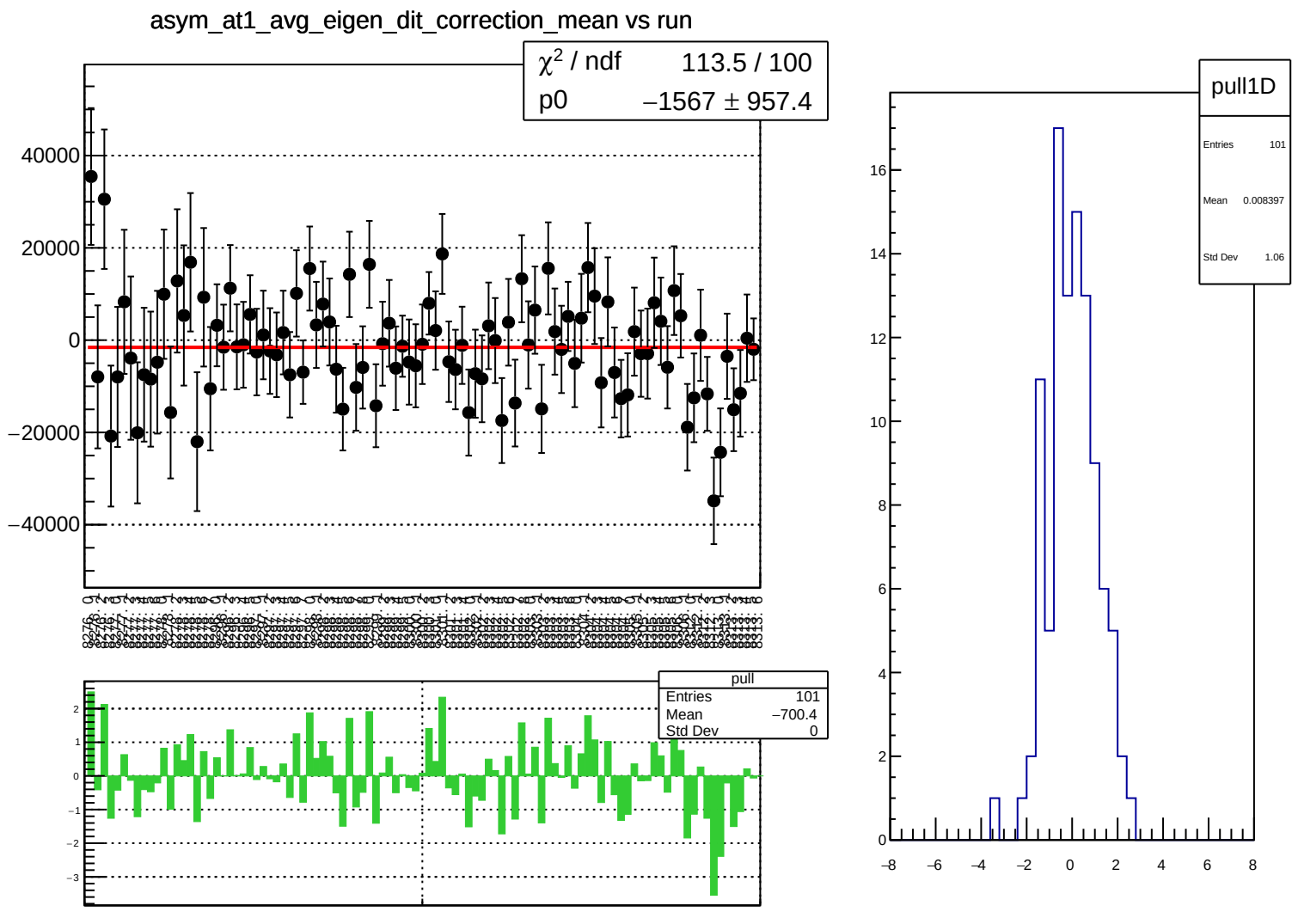

asym_at1_avg_dit_correction_mean vs run
χ² / ndf 113.5 / 100
p0 −1567 ± 957.4
40000
20000
0
−20000
−40000
pull
Entries 101
Mean −700.4
Std Dev 0
pull1D
Entries 101
Mean 0.008397
Std Dev 1.06

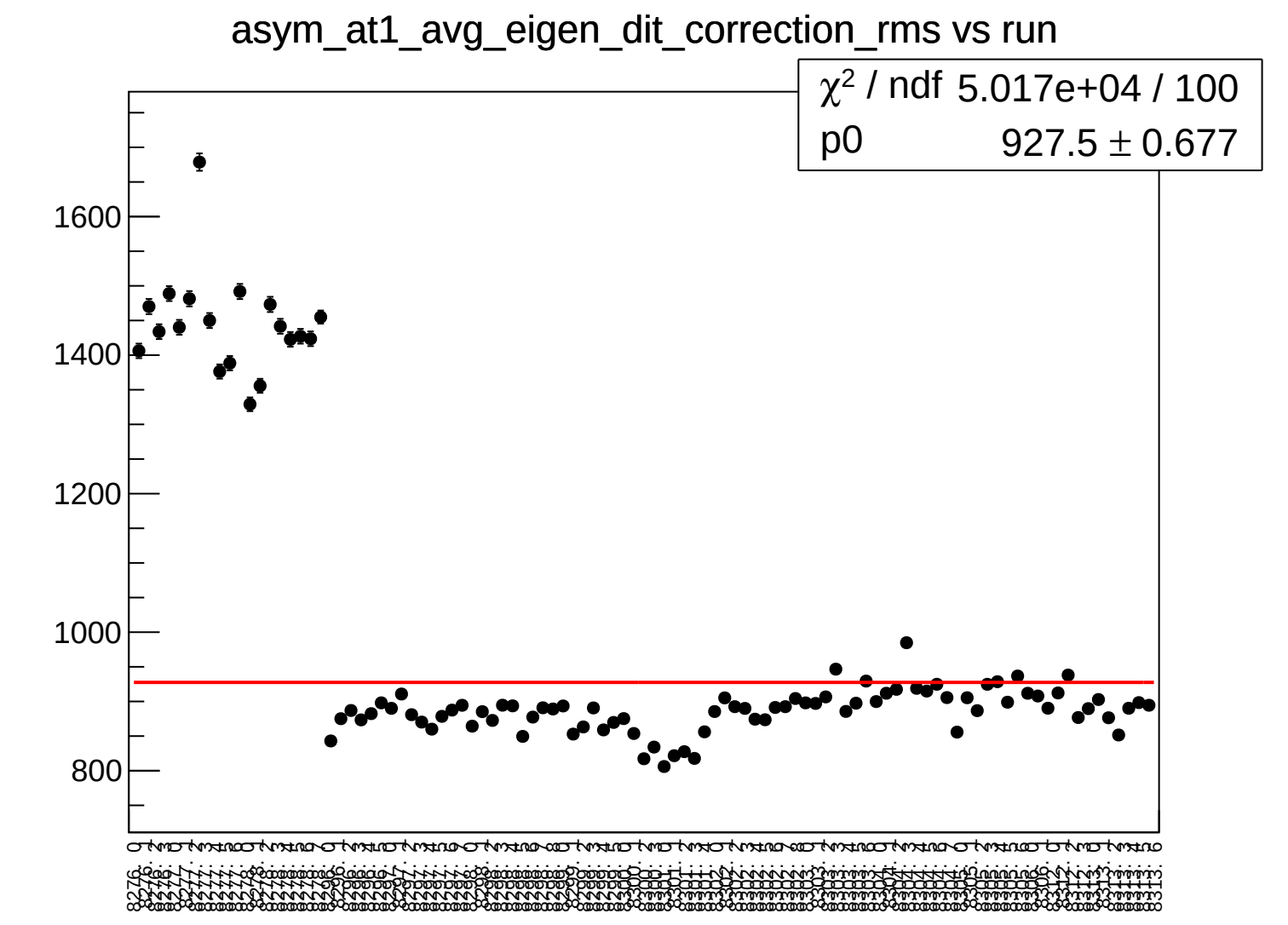

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 5.017e+04 / 100
p0 927.5 ± 0.677
1600
1400
1200
1000
800

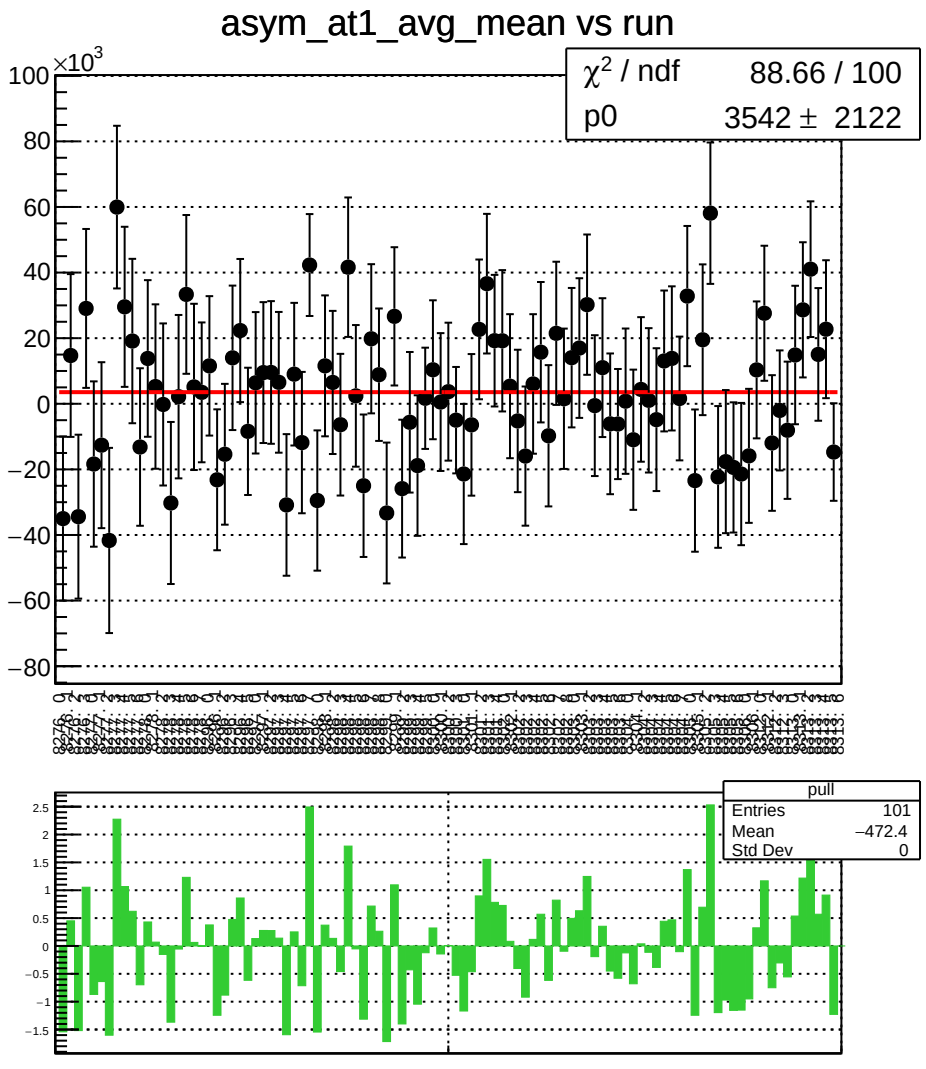

eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 88.5 / 100
p0 1922 ± 1851
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −458.8
Std Dev 0
3
2
1
0
−1
−2

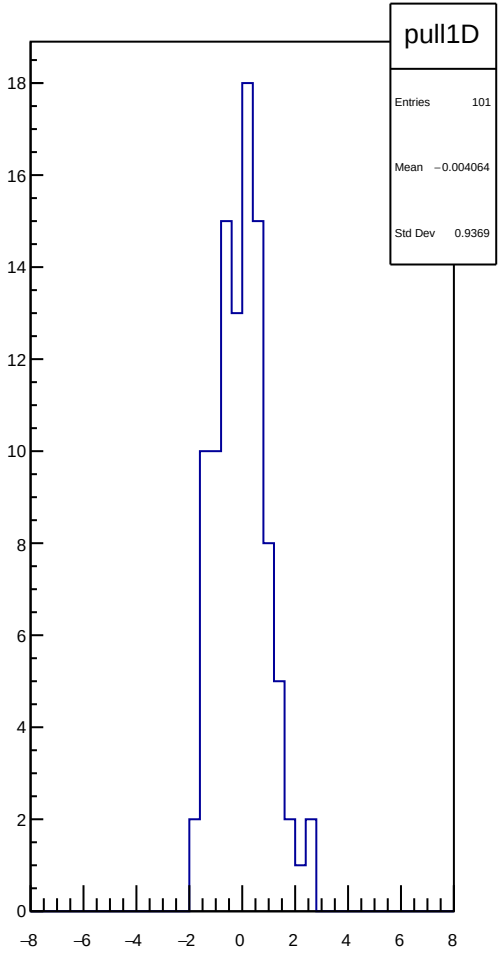

pull1D
Entries 101
Mean 0.001498
Std Dev 0.9361
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

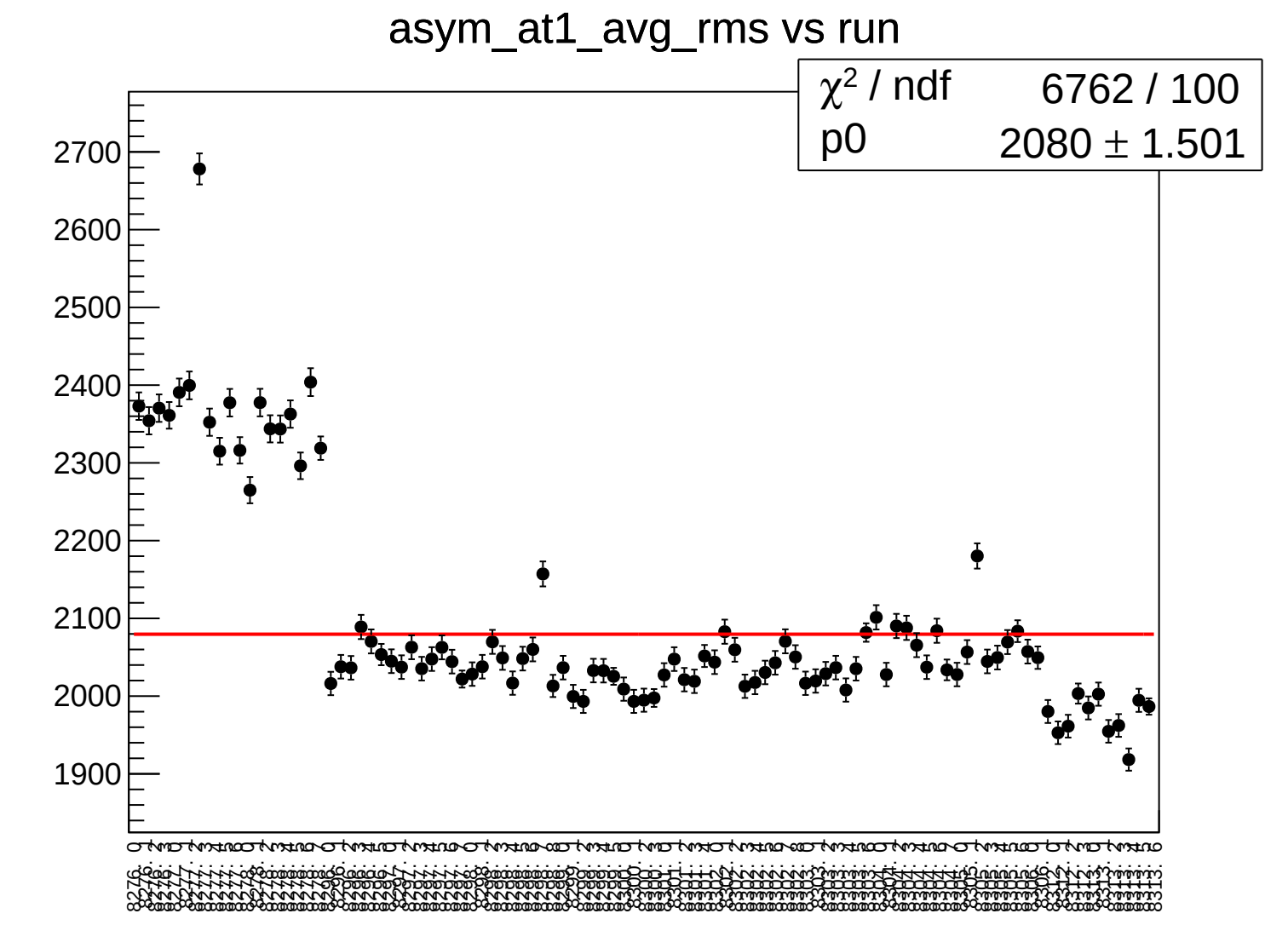

eigen_dit_asym_at1_avg_rms vs run
χ² / ndf 211.4 / 100
p0 1817 ± 1.309
1920
1900
1880
1860
1840
1820
1800
1780
1760

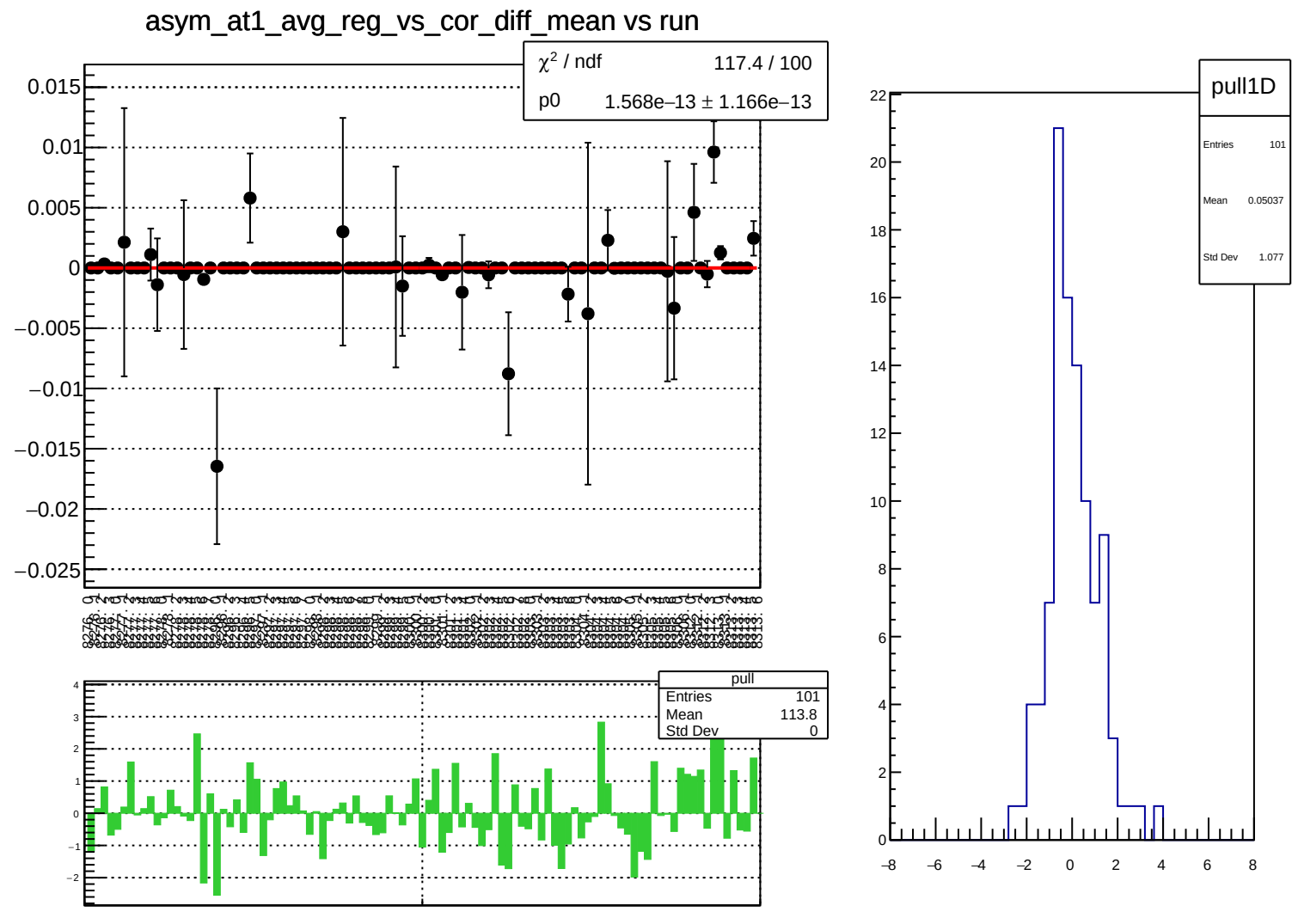

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 113.5 / 100
p0 −1567 ± 957.4
40000
20000
0
−20000
−40000
pull
Entries 101
Mean −700.4
Std Dev 0
pull1D
Entries 101
Mean 0.008397
Std Dev 1.06

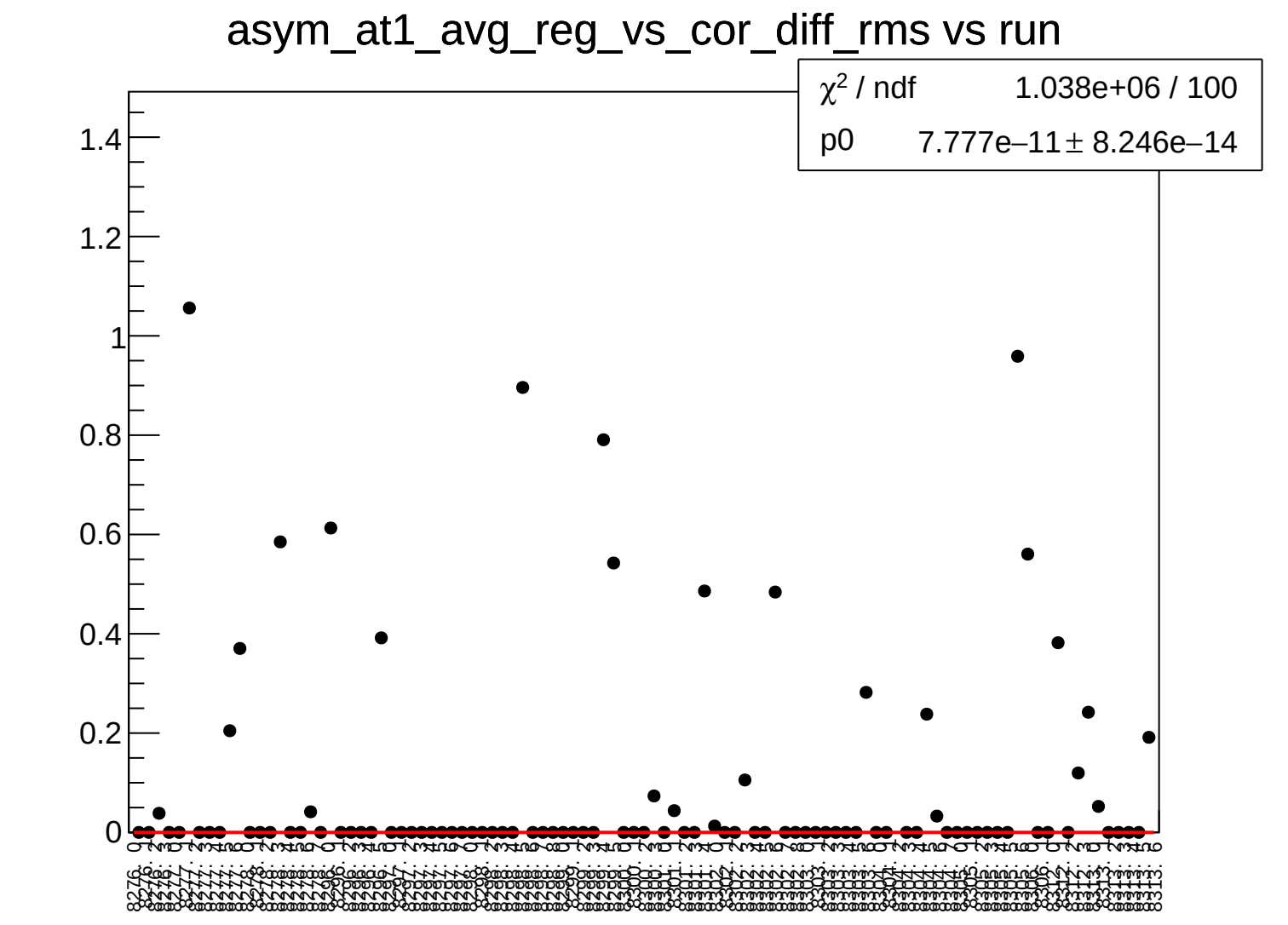

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 5.017e+04 / 100
p0 927.5 ± 0.677
1600
1400
1200
1000
800

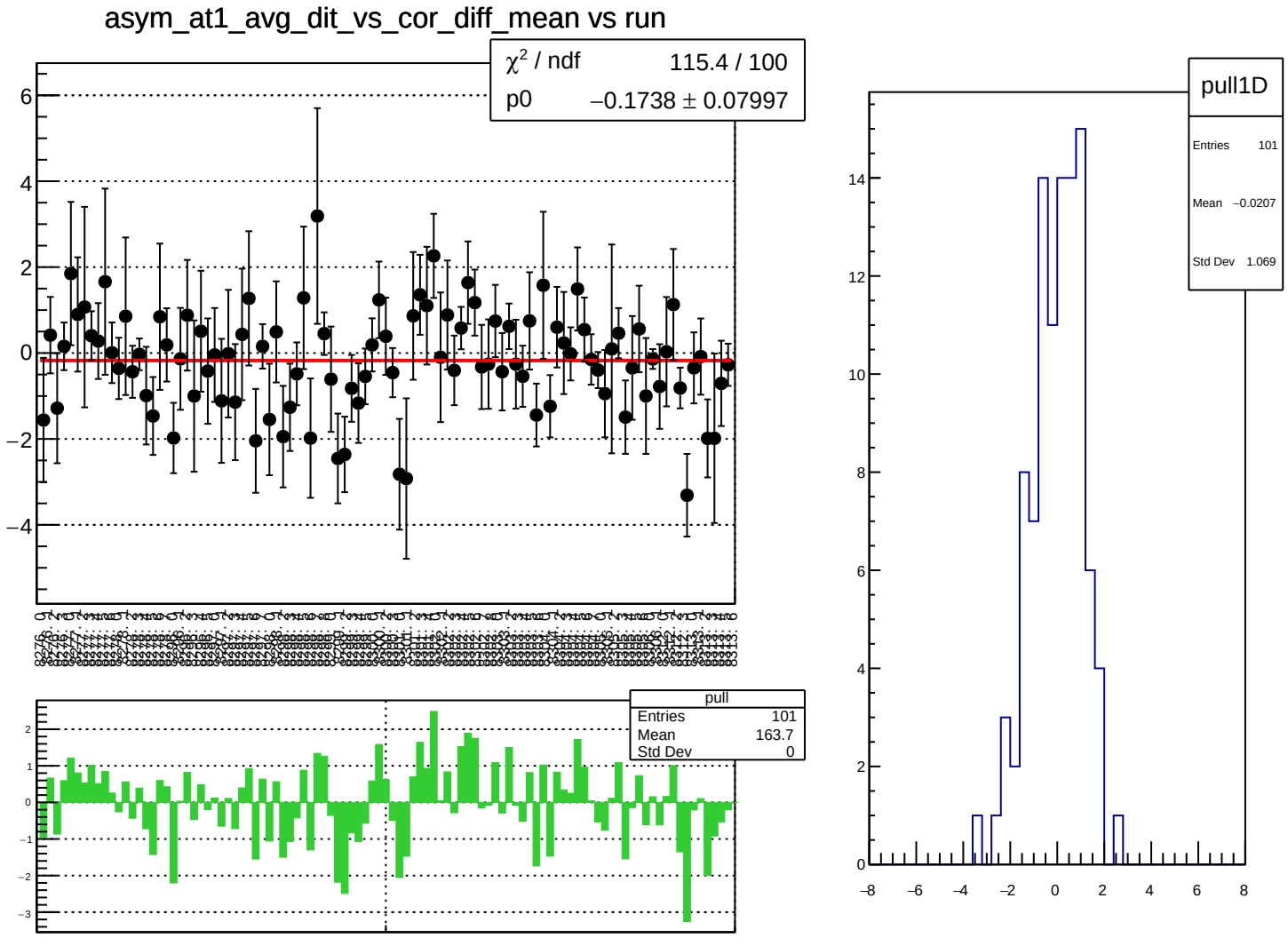

asym_at1_avg_mean vs run
×10^3
χ^2 / ndf 88.66 / 100
p0 3542 ± 2122
pull
Entries 101
Mean −472.4
Std Dev 0

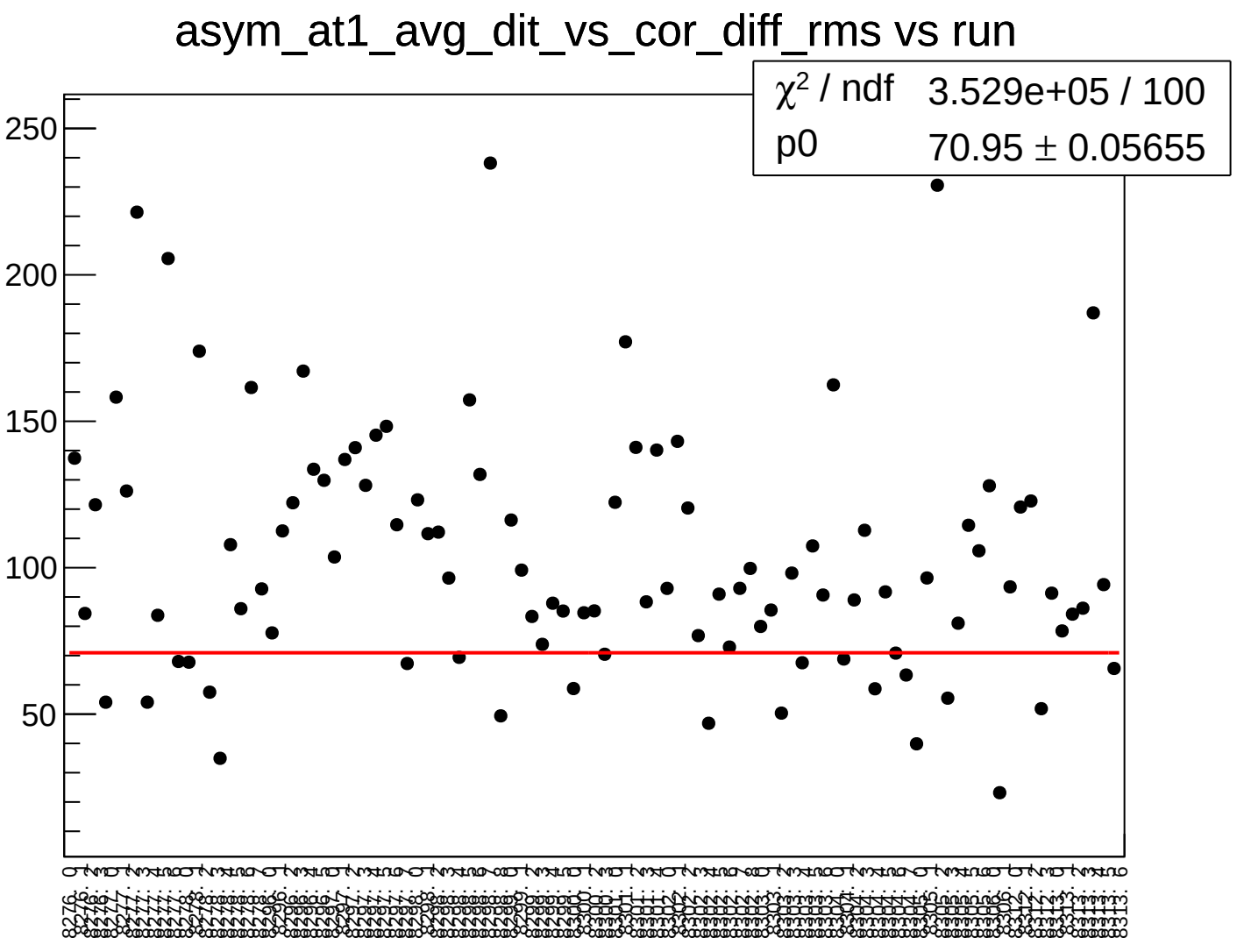

pull1D
Entries 101
Mean −0.004064
Std Dev 0.9369

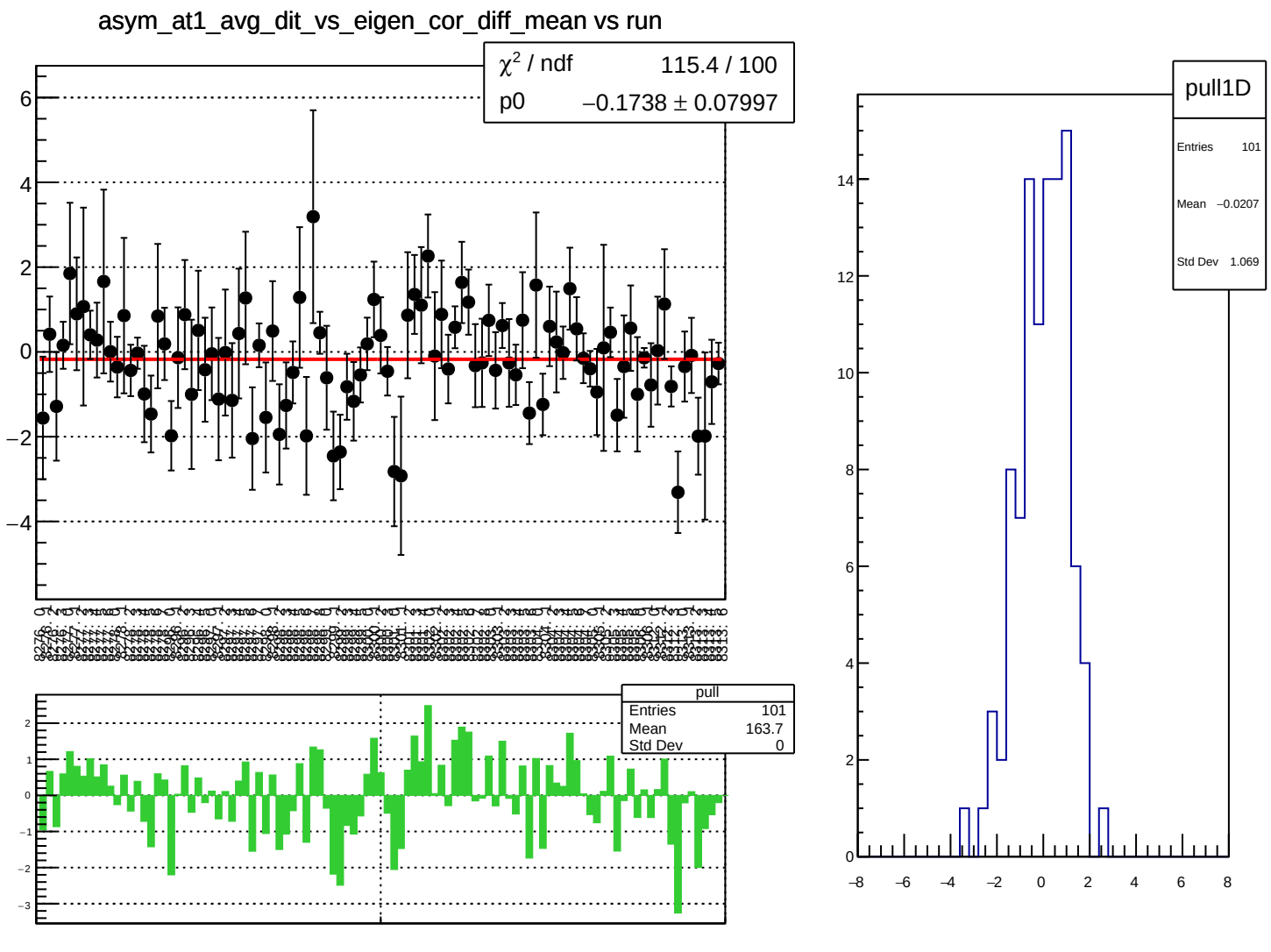

asym_at1_avg_rms vs run
χ² / ndf 6762 / 100
p0 2080 ± 1.501
2700
2600
2500
2400
2300
2200
2100
2000
1900

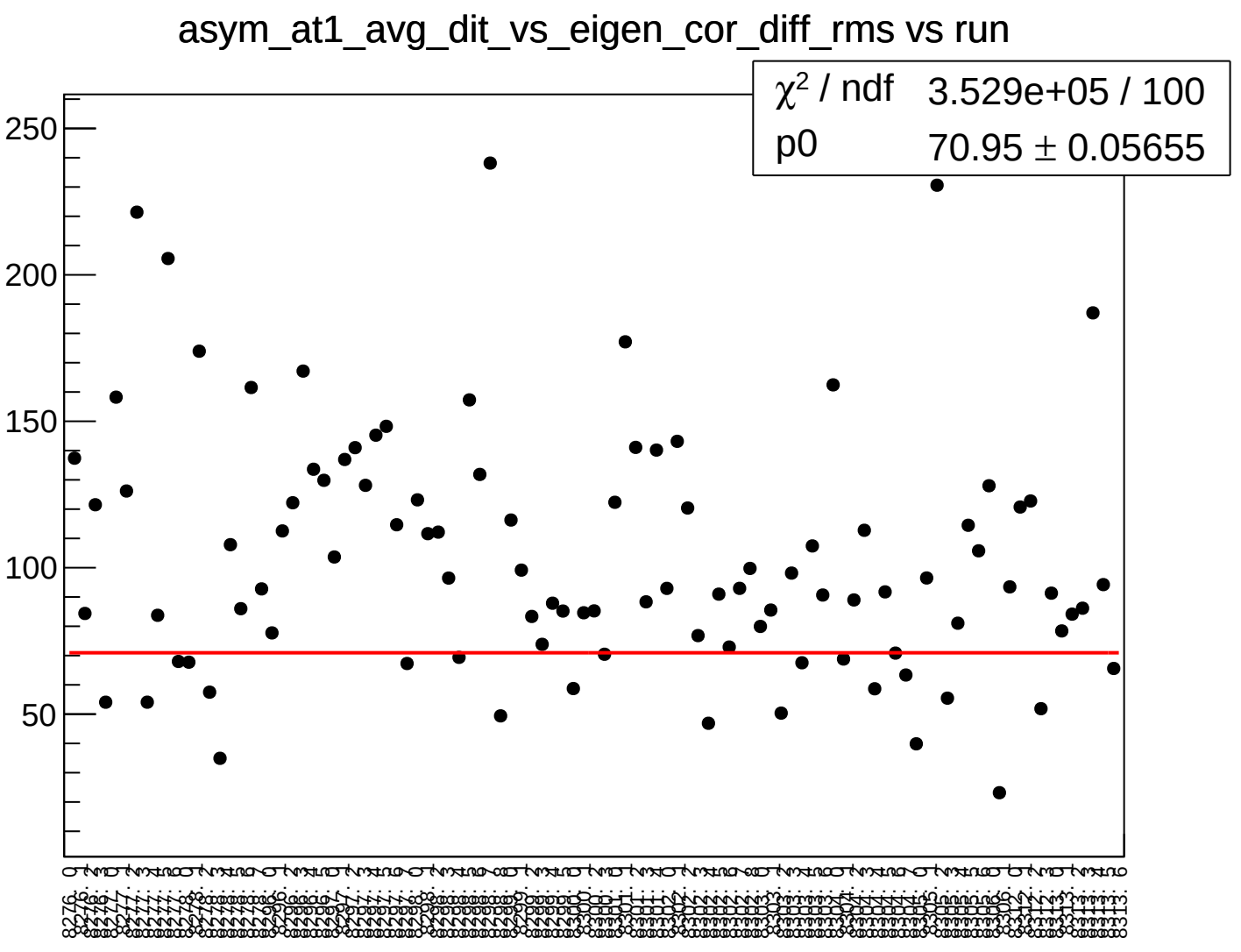

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 117.4 / 100
p0 1.568e−13 ± 1.166e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
pull
Entries 101
Mean 113.8
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.05037
Std Dev 1.077
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

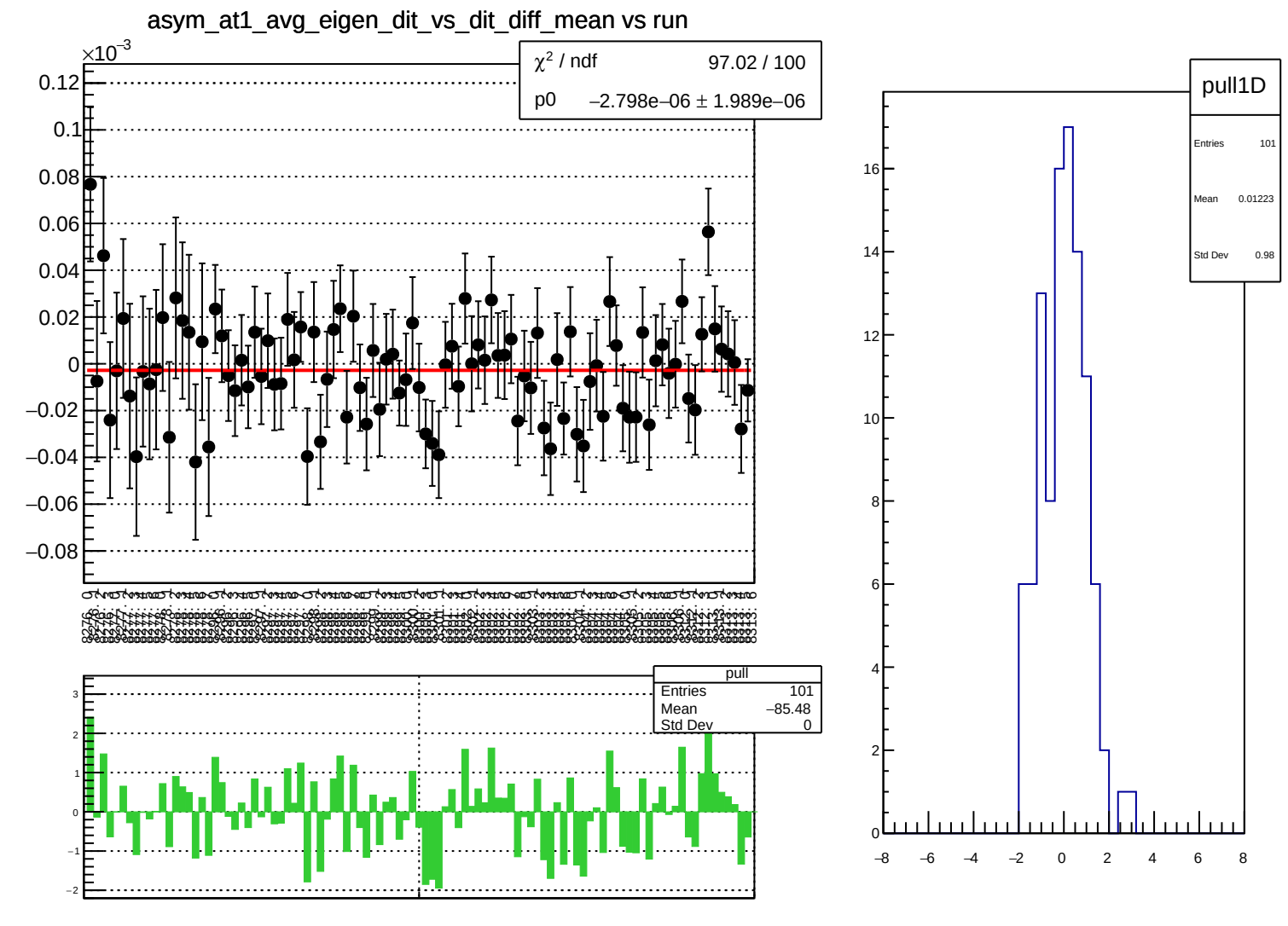

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.038e+06 / 100
p0 7.777e−11 ± 8.246e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

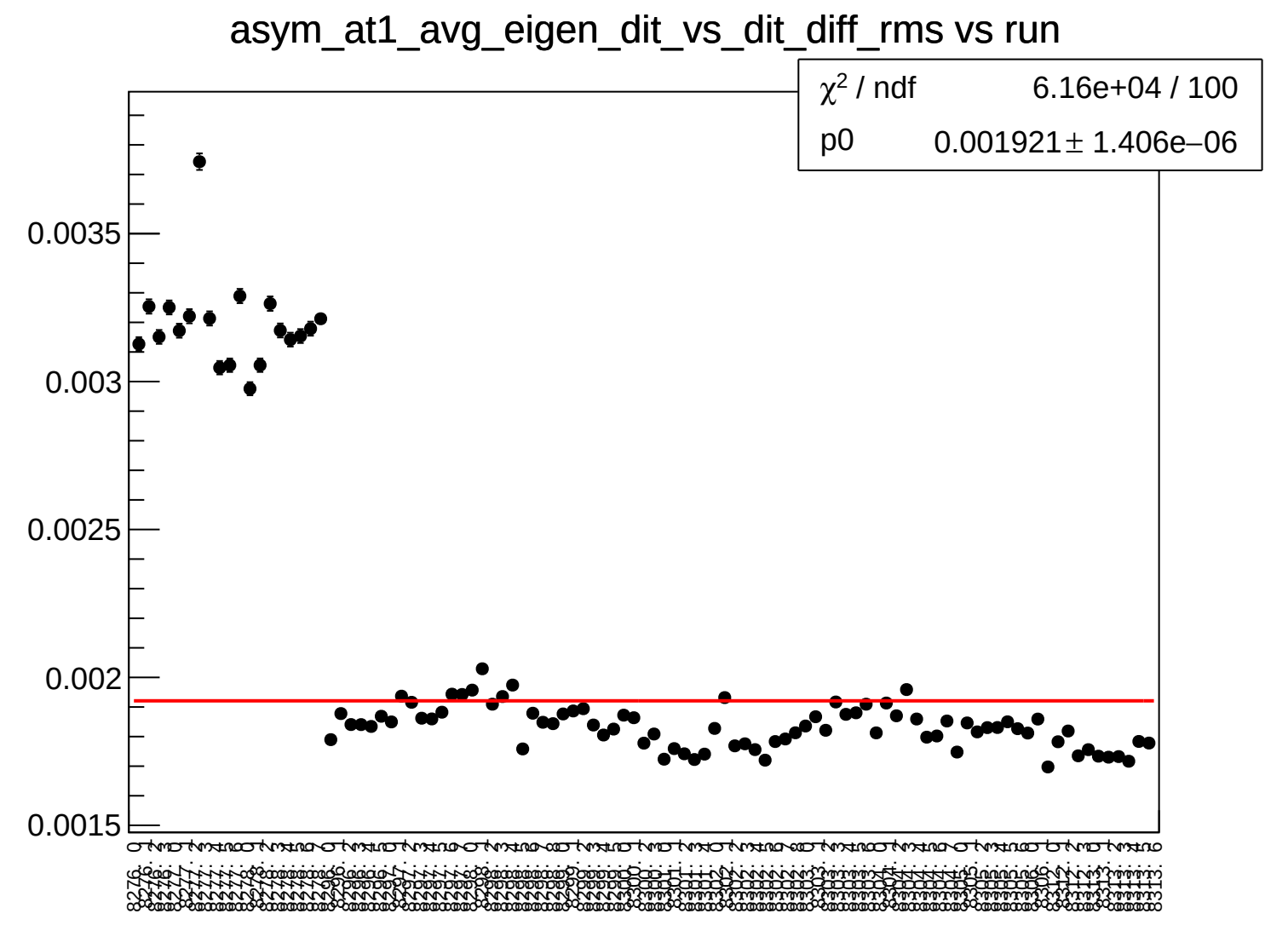

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 115.4 / 100
p0 −0.1738 ± 0.07997
pull
Entries 101
Mean 163.7
Std Dev 0
pull1D
Entries 101
Mean −0.0207
Std Dev 1.069

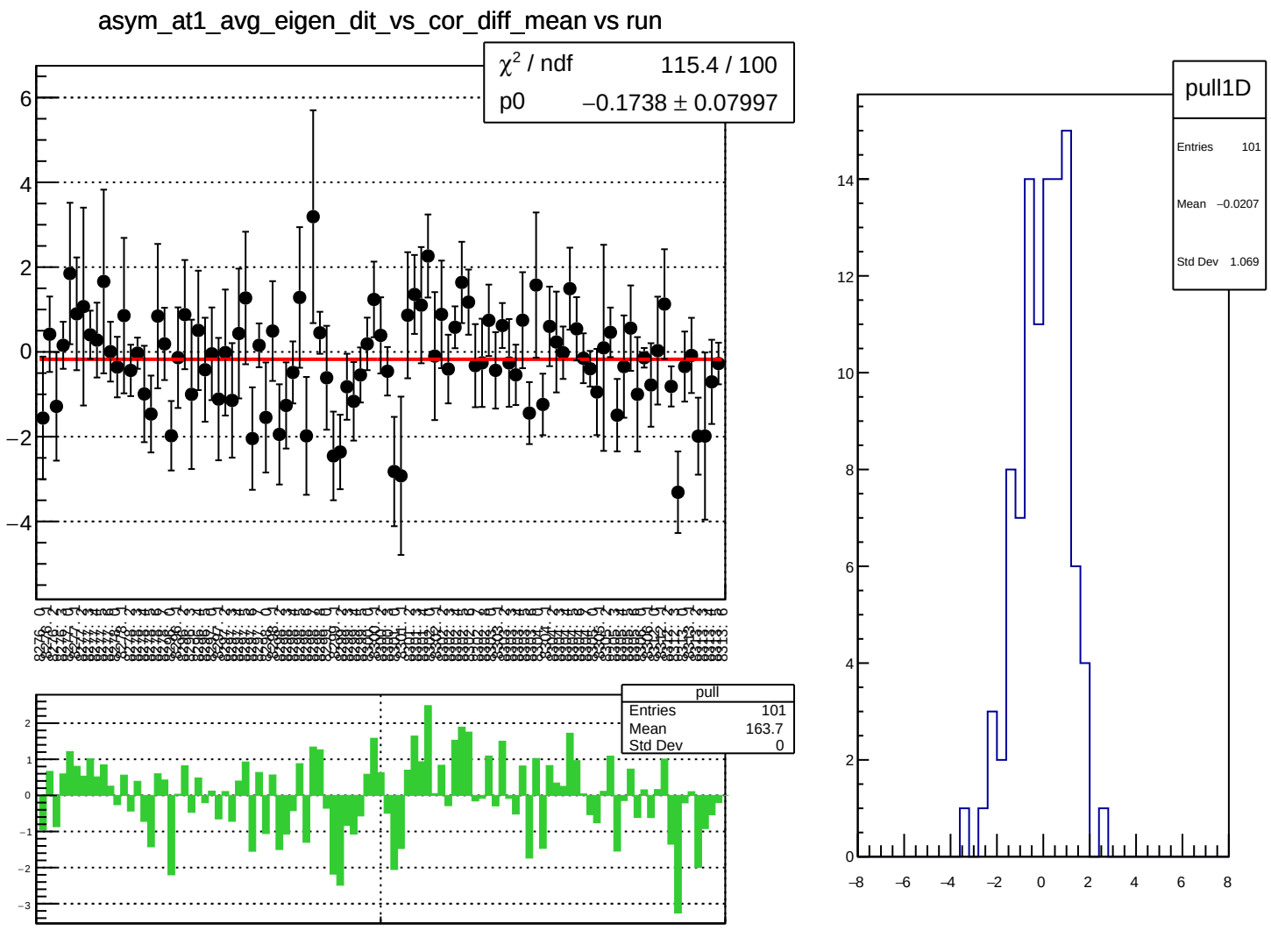

asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.529e+05 / 100
p0 70.95 ± 0.05655
250
200
150
100
50

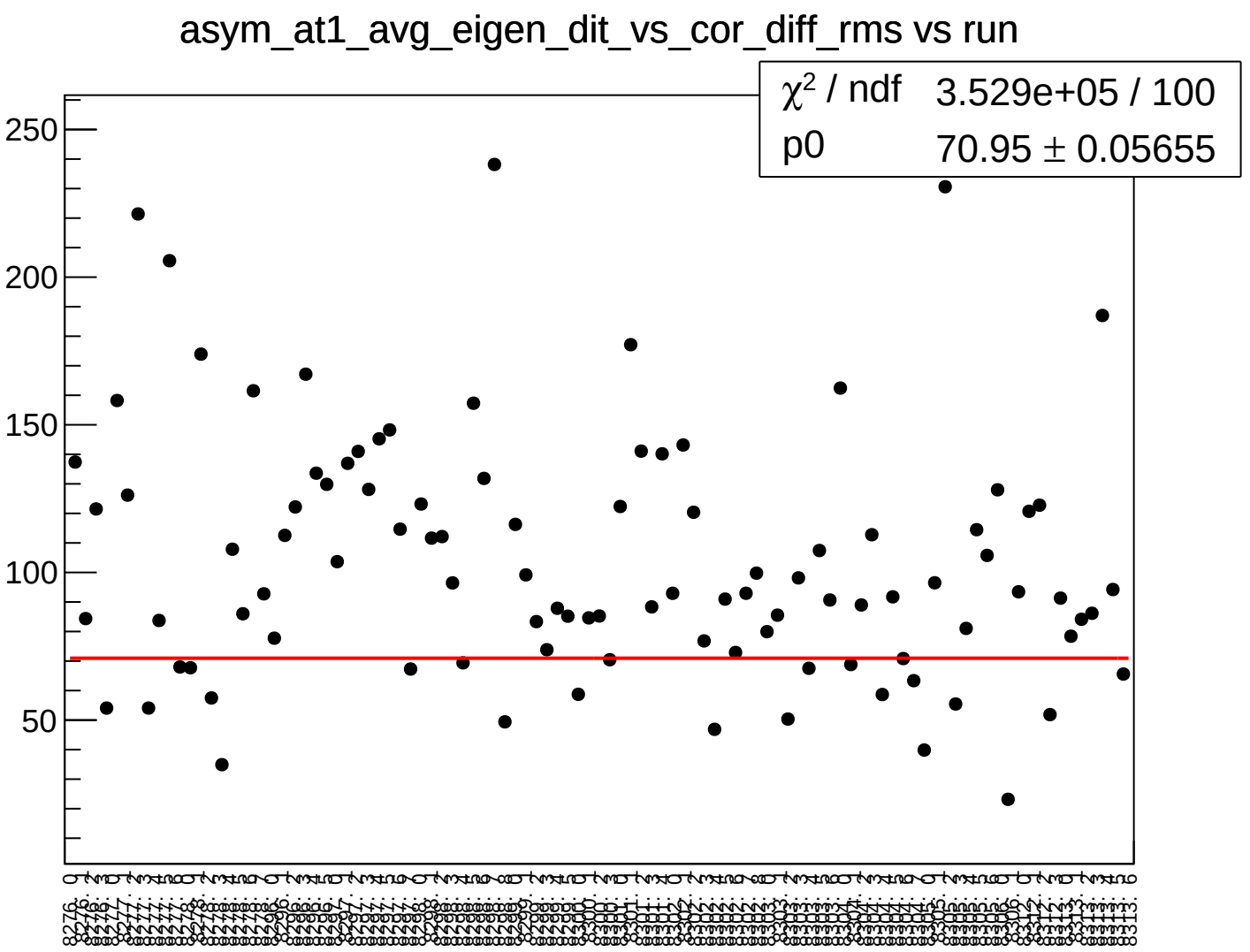

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 115.4 / 100
p0 −0.1738 ± 0.07997
pull
Entries 101
Mean 163.7
Std Dev 0
pull1D
Entries 101
Mean −0.0207
Std Dev 1.069

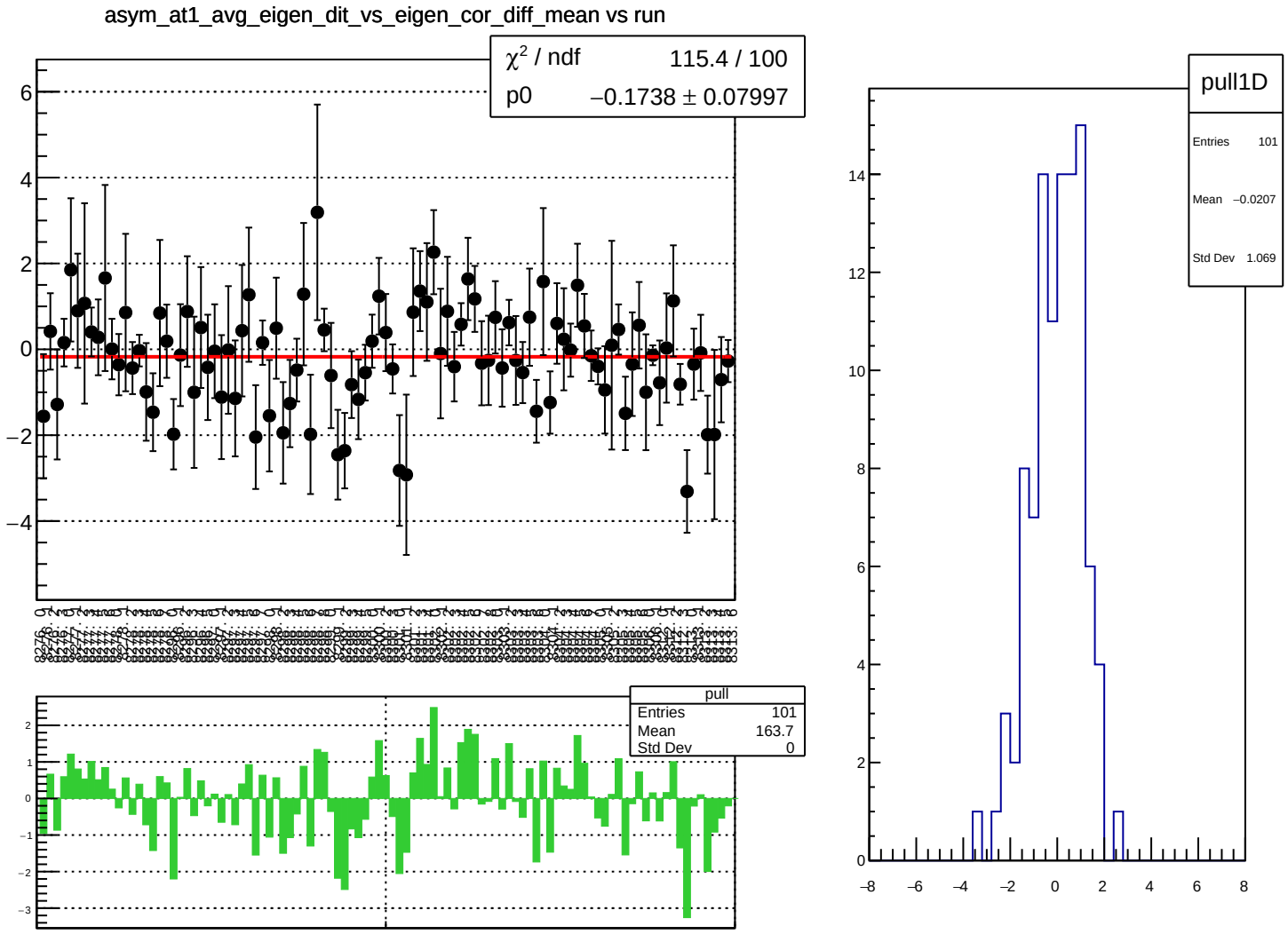

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.529e+05 / 100
p0 70.95 ± 0.05655
250
200
150
100
50

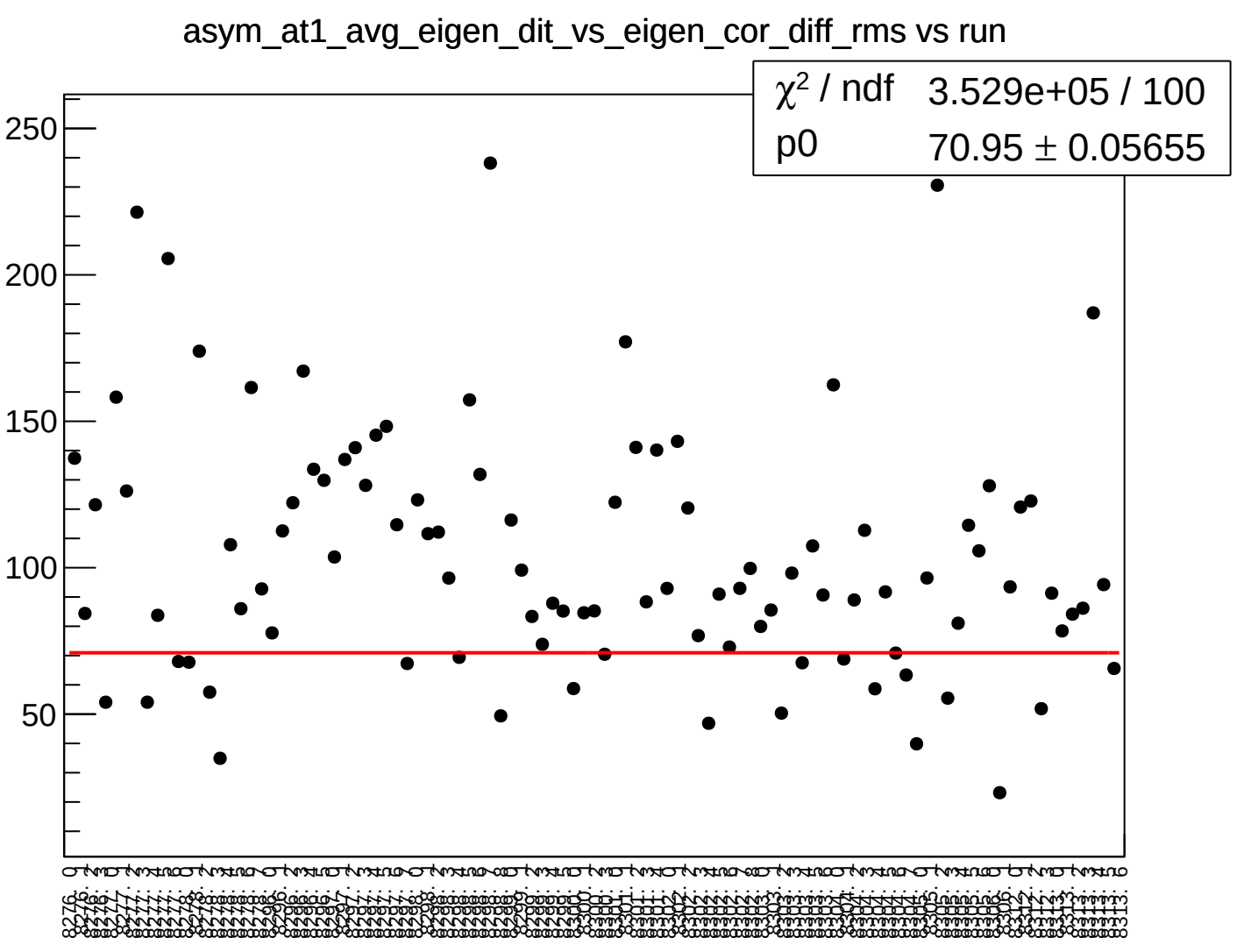

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.02 / 100
p0 −2.798e−06 ± 1.989e−06
pull
Entries 101
Mean −85.48
Std Dev 0
pull1D
Entries 101
Mean 0.01223
Std Dev 0.98

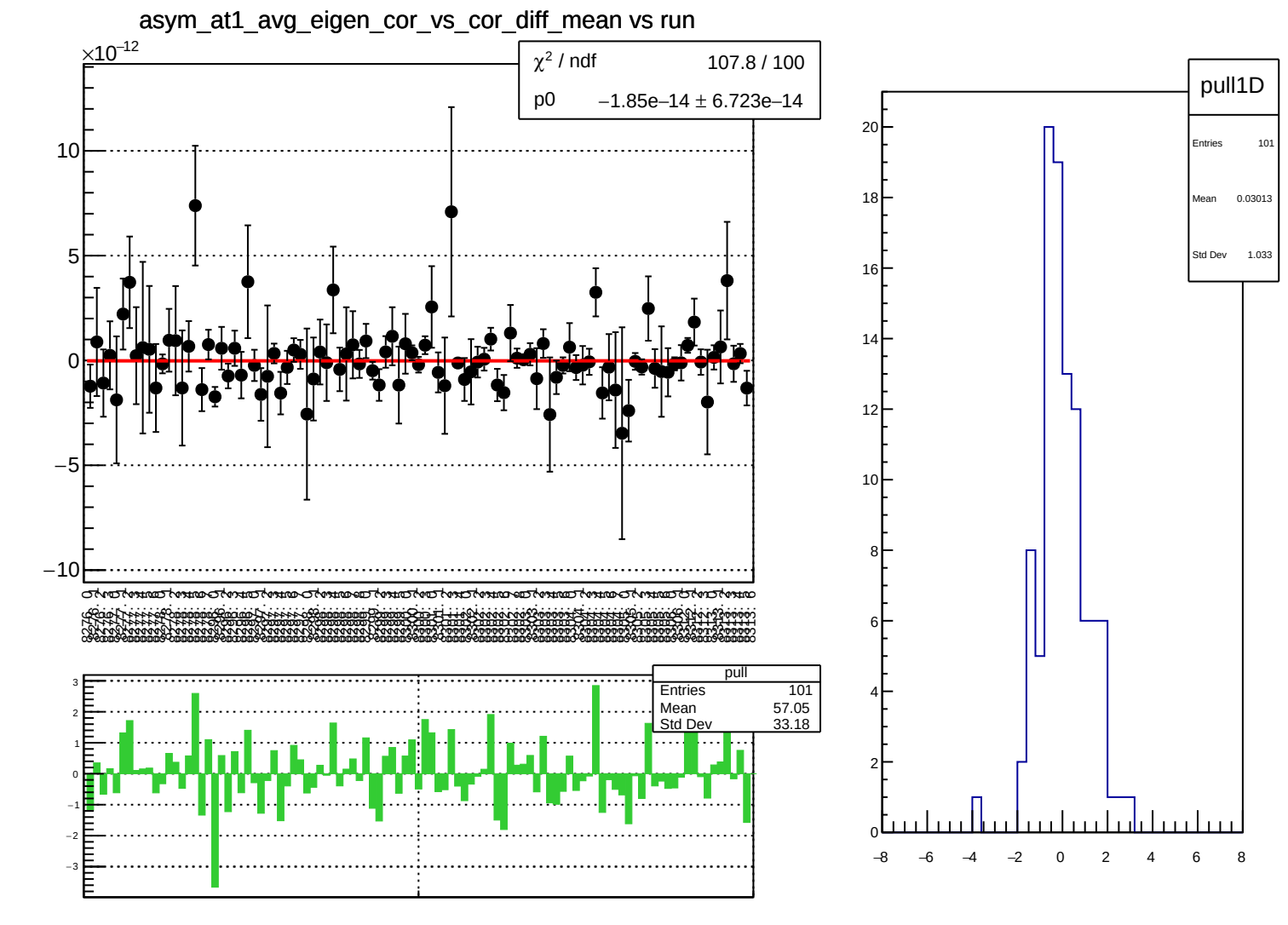

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.16e+04 / 100
p0 0.001921 ± 1.406e−06
0.0035
0.003
0.0025
0.002
0.0015

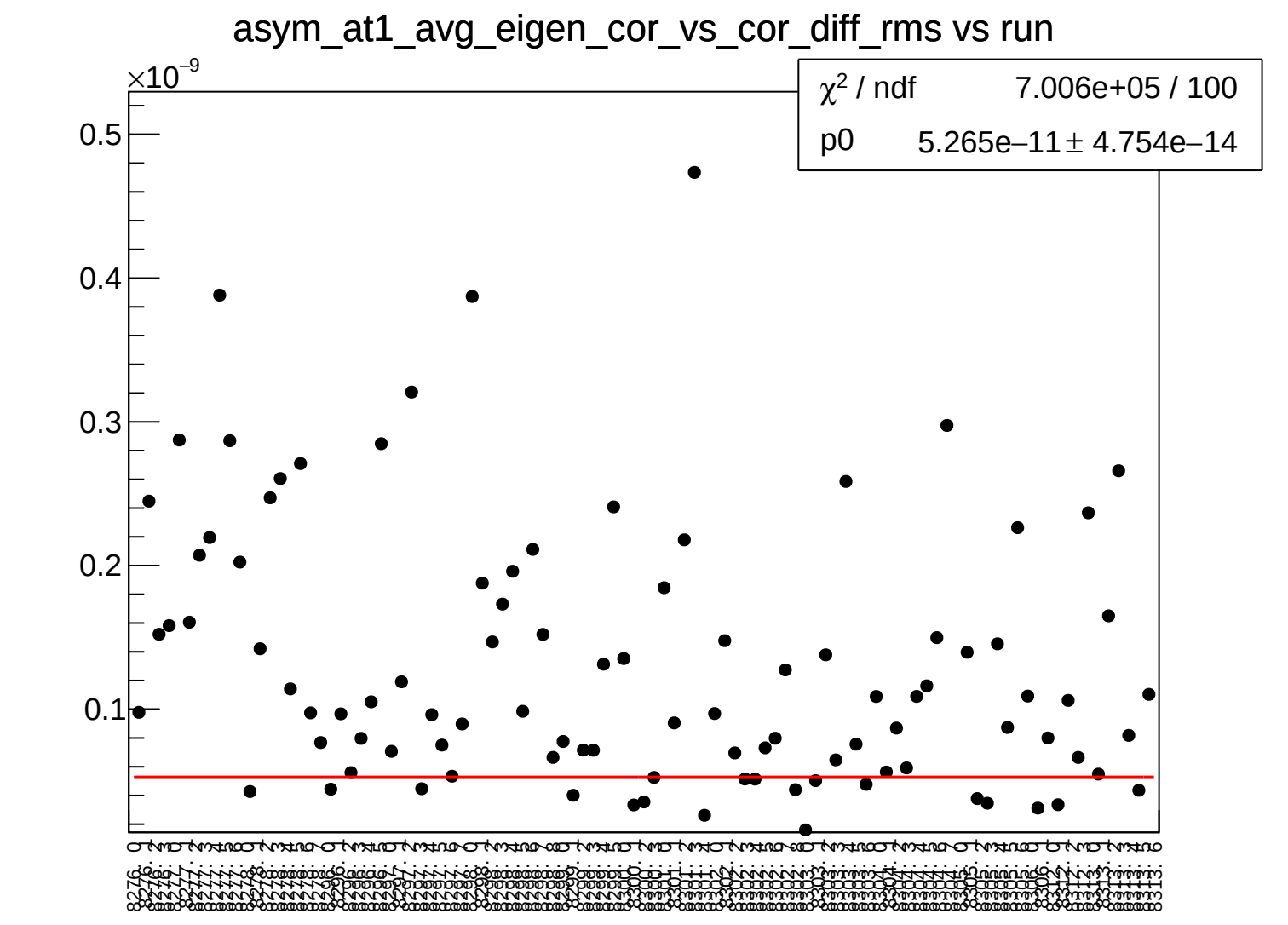

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 115.4 / 100
p0 −0.1738 ± 0.07997
pull
Entries 101
Mean 163.7
Std Dev 0
pull1D
Entries 101
Mean −0.0207
Std Dev 1.069

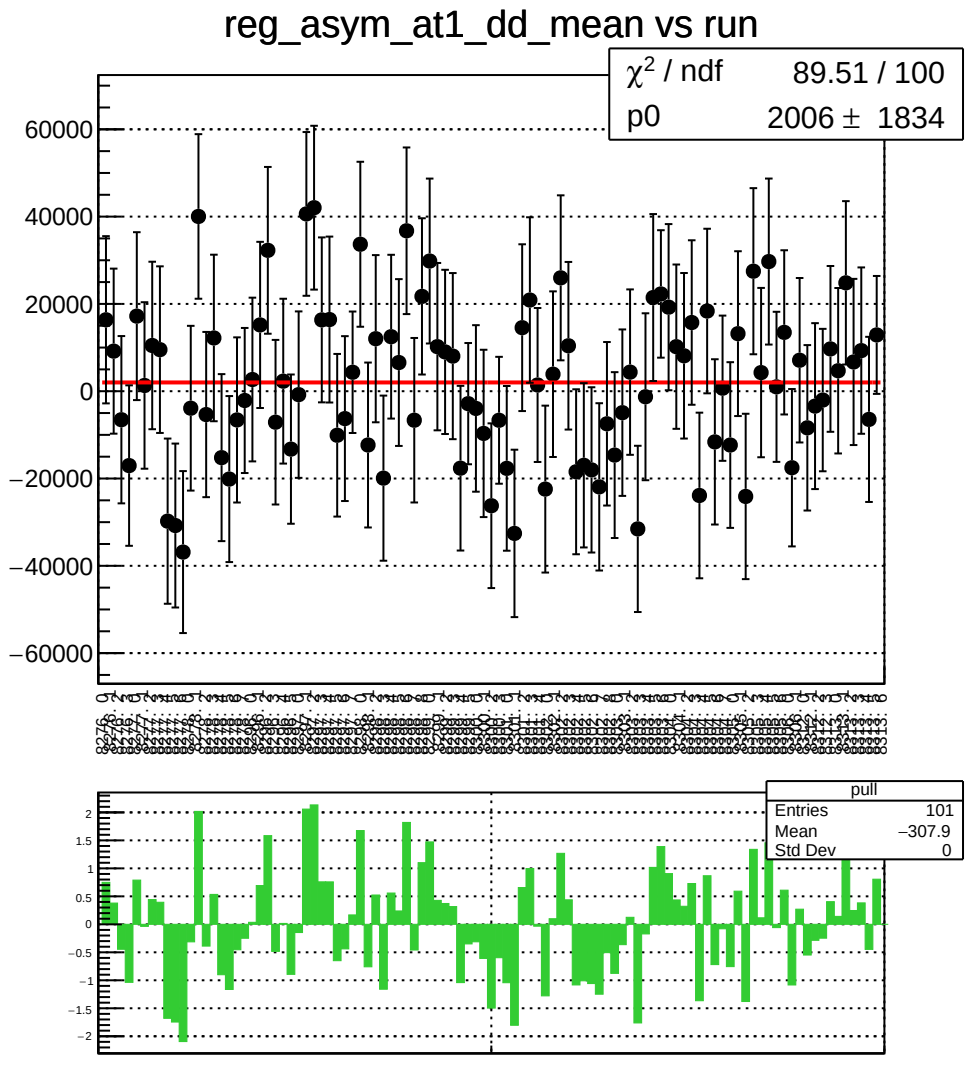

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.529e+05 / 100
p0 70.95 ± 0.05655
250
200
150
100
50

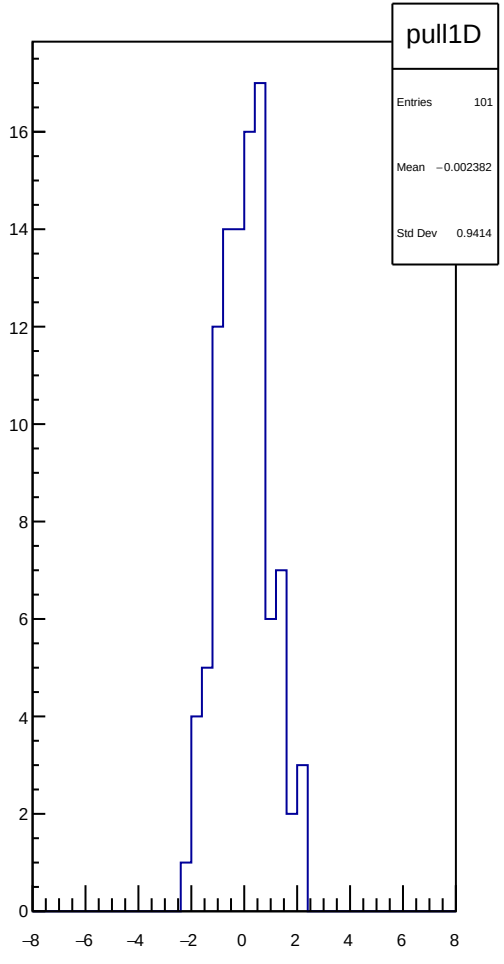

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 115.4 / 100
p0 −0.1738 ± 0.07997
pull
Entries 101
Mean 163.7
Std Dev 0
pull1D
Entries 101
Mean −0.0207
Std Dev 1.069

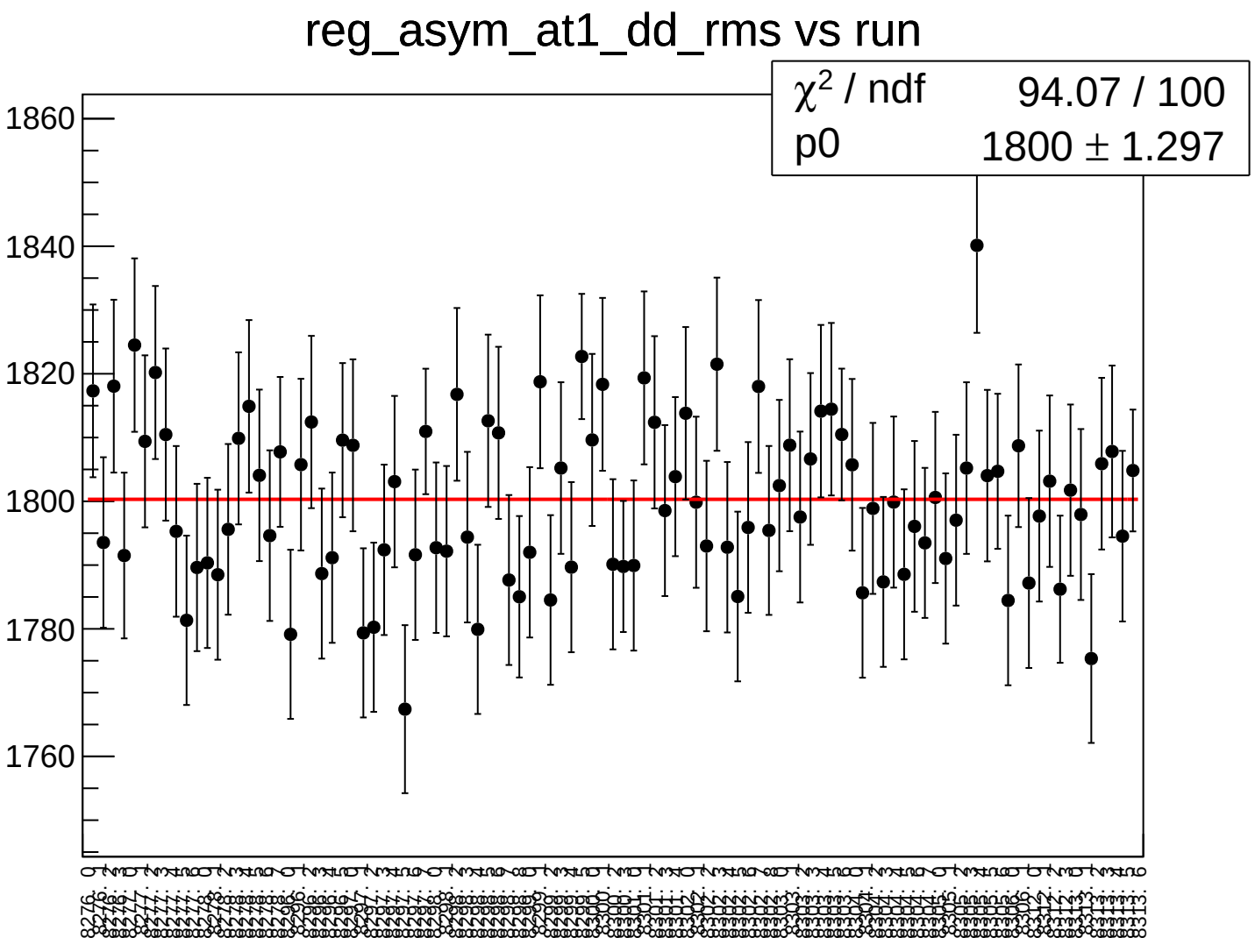

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.529e+05 / 100
p0 70.95 ± 0.05655
250
200
150
100
50

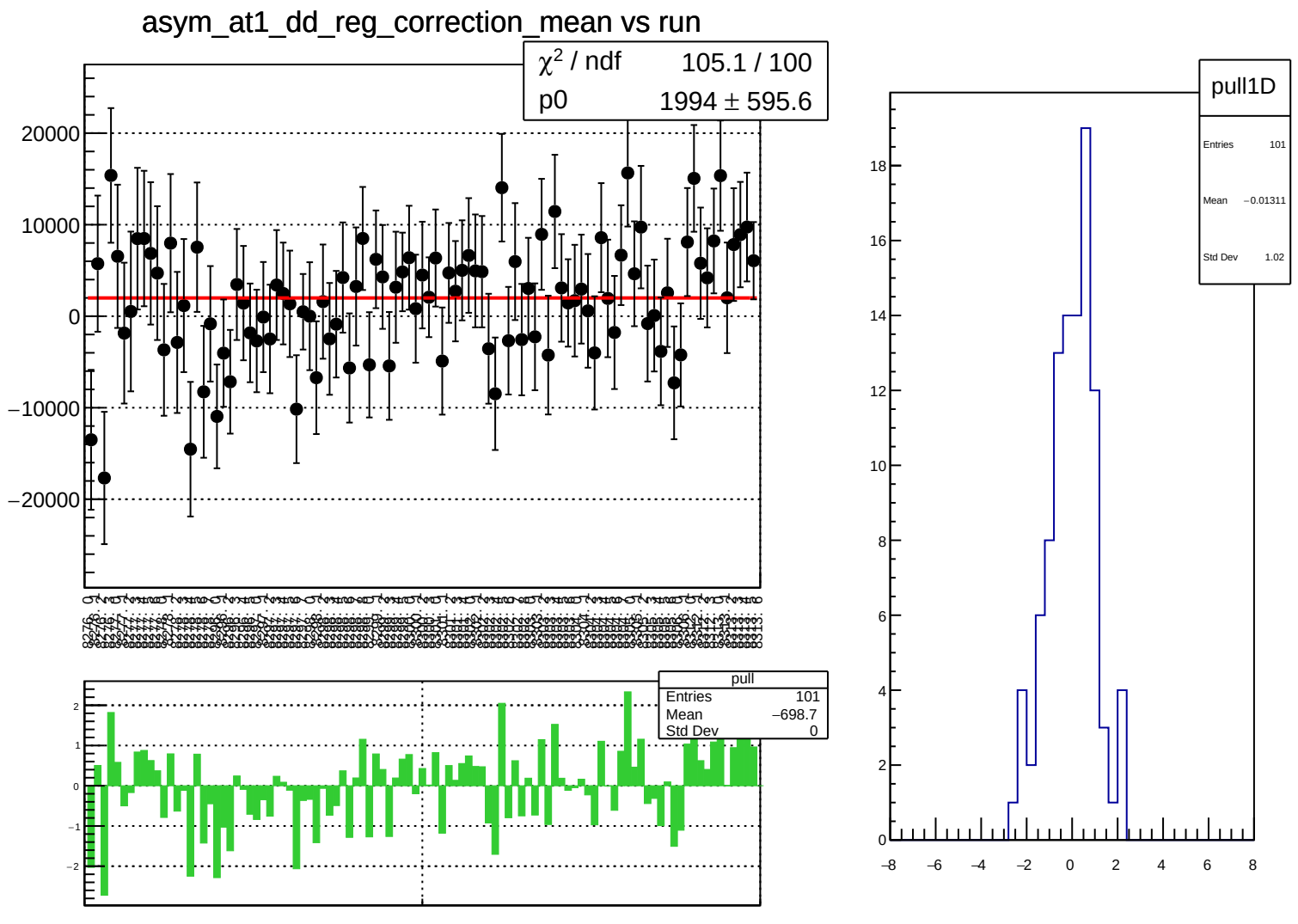

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 107.8 / 100
p0 −1.85e−14 ± 6.723e−14
pull
Entries 101
Mean 57.05
Std Dev 33.18
pull1D
Entries 101
Mean 0.03013
Std Dev 1.033

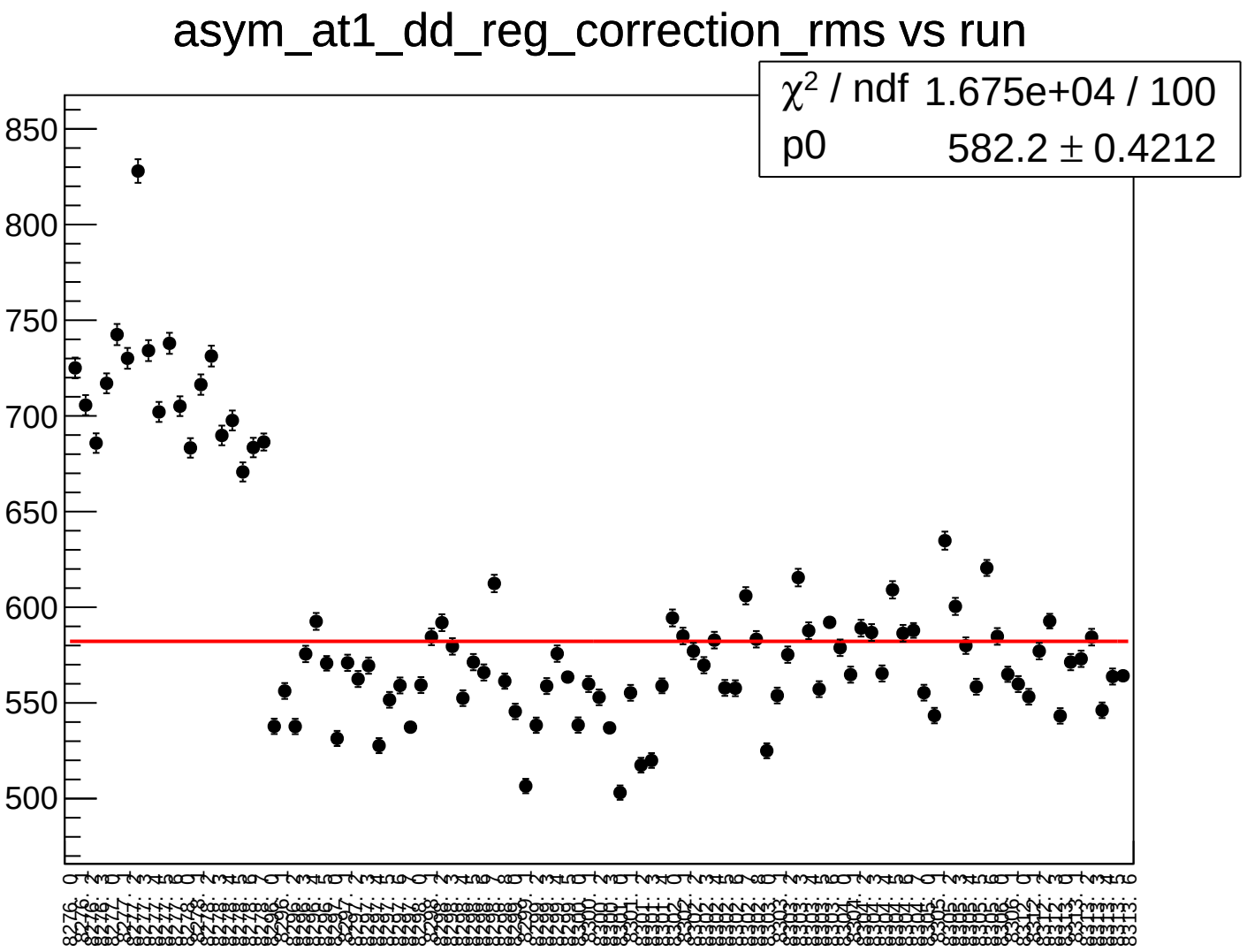

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.006e+05 / 100
p0 5.265e−11 ± 4.754e−14
0.5
0.4
0.3
0.2
0.1

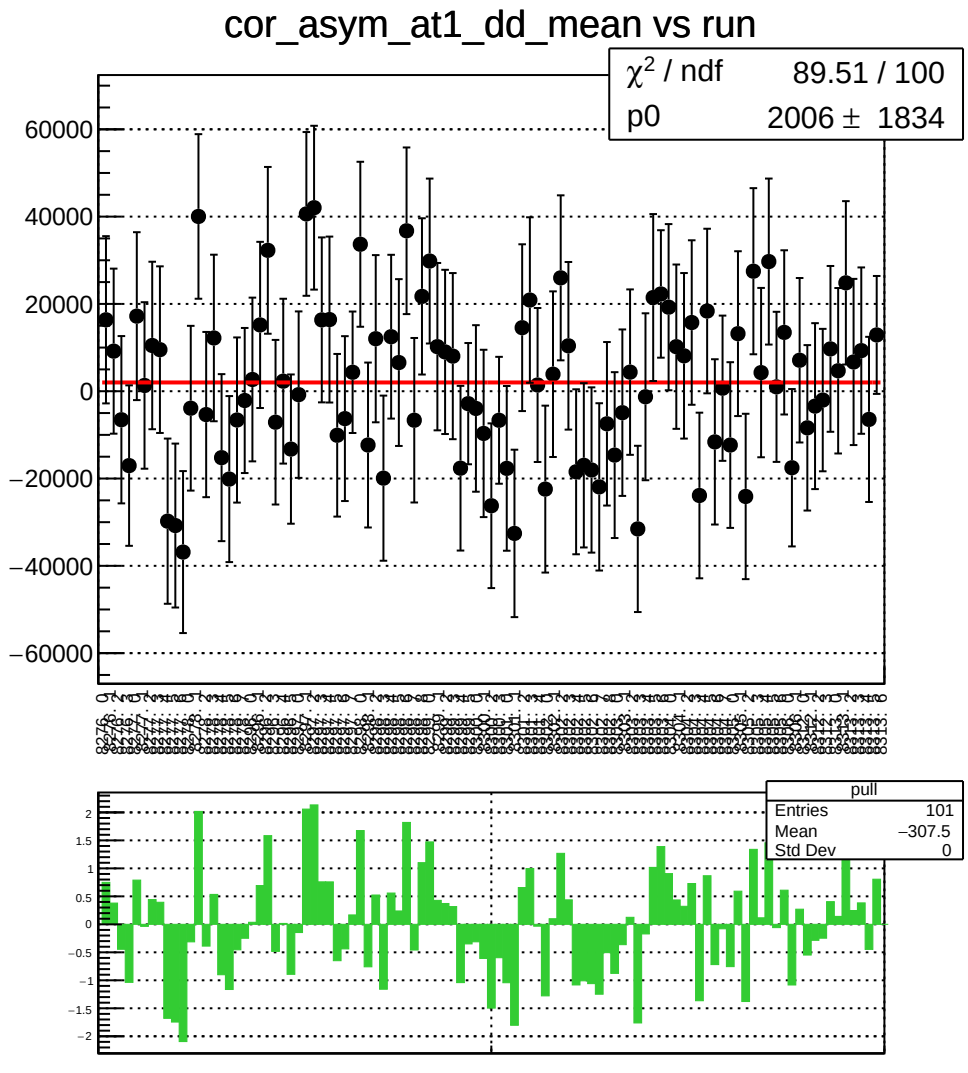

reg_asym_at1_dd_mean vs run
χ² / ndf 89.51 / 100
p0 2006 ± 1834
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −307.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

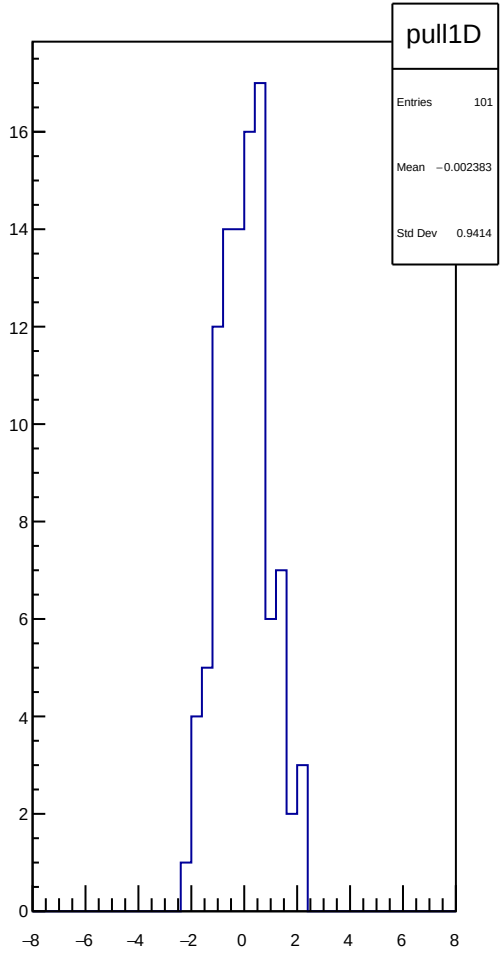

pull1D
Entries 101
Mean −0.002382
Std Dev 0.9414
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

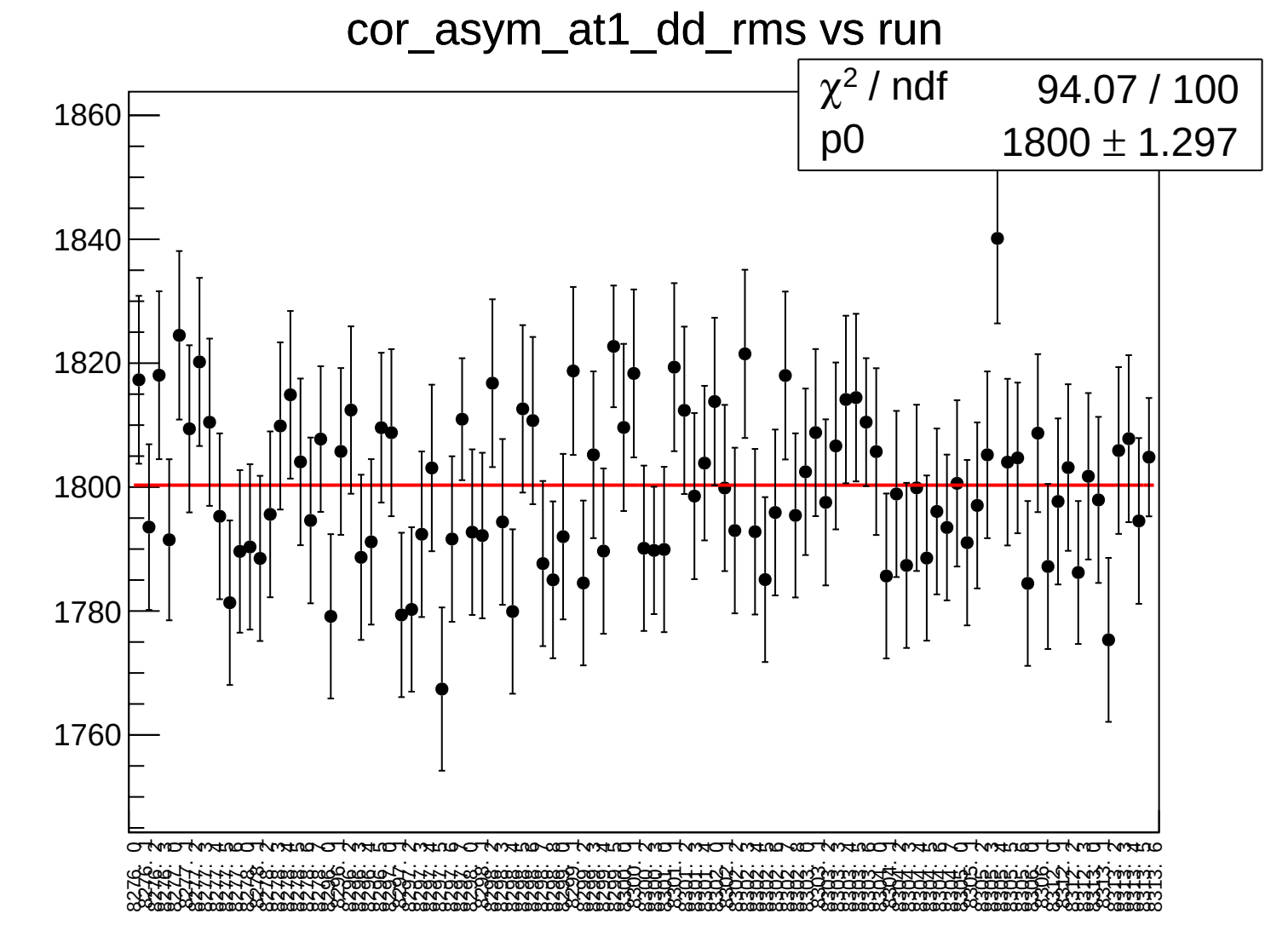

reg_asym_at1_dd_rms vs run
χ² / ndf 94.07 / 100
p0 1800 ± 1.297
1860
1840
1820
1800
1780
1760

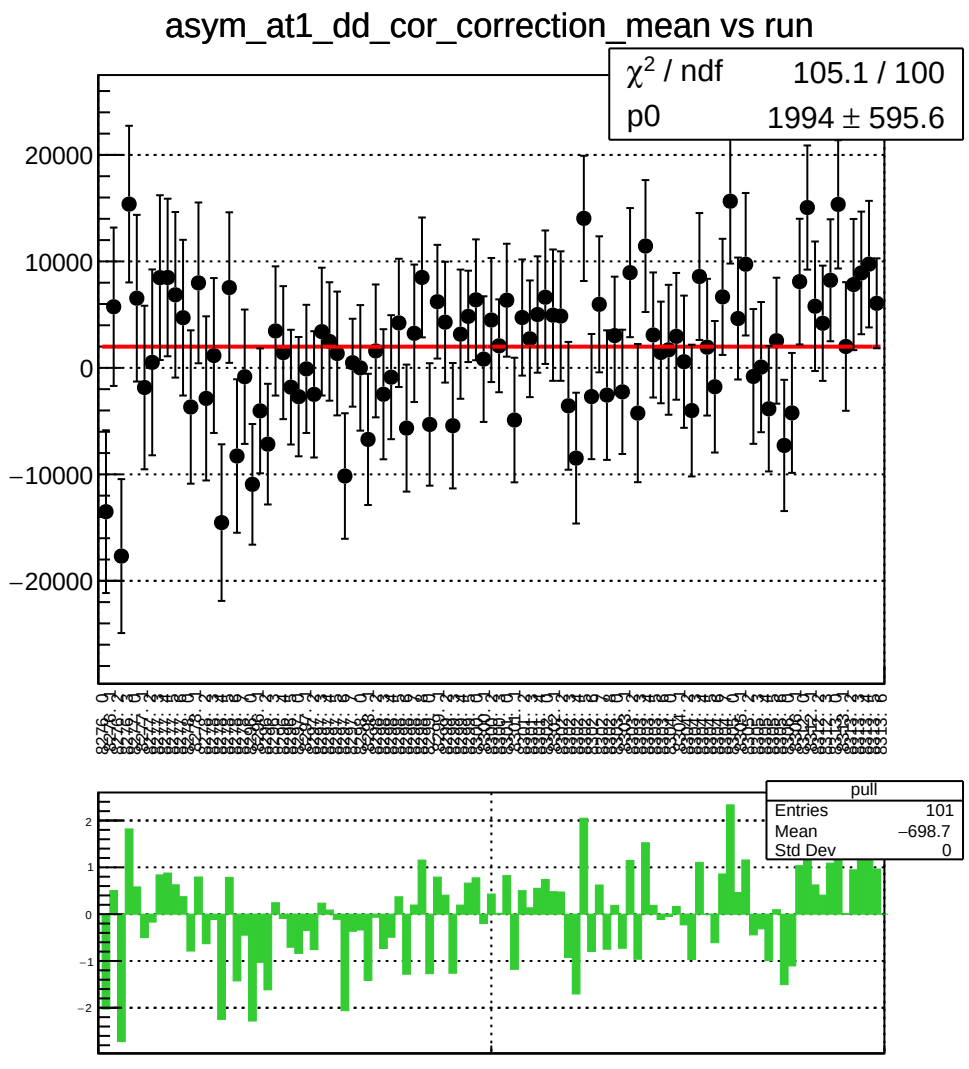

asym_at1_dd_reg_correction_mean vs run
χ² / ndf 105.1 / 100
p0 1994 ± 595.6
20000
10000
0
−10000
−20000
pull
Entries 101
Mean −698.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.01311
Std Dev 1.02
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

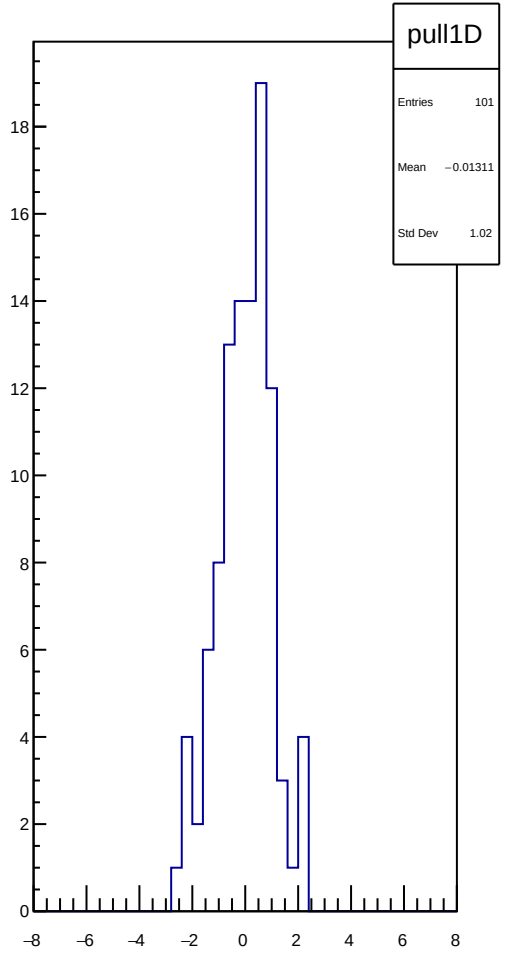

asym_at1_dd_reg_correction_rms vs run
χ² / ndf 1.675e+04 / 100
p0 582.2 ± 0.4212
850
800
750
700
650
600
550
500

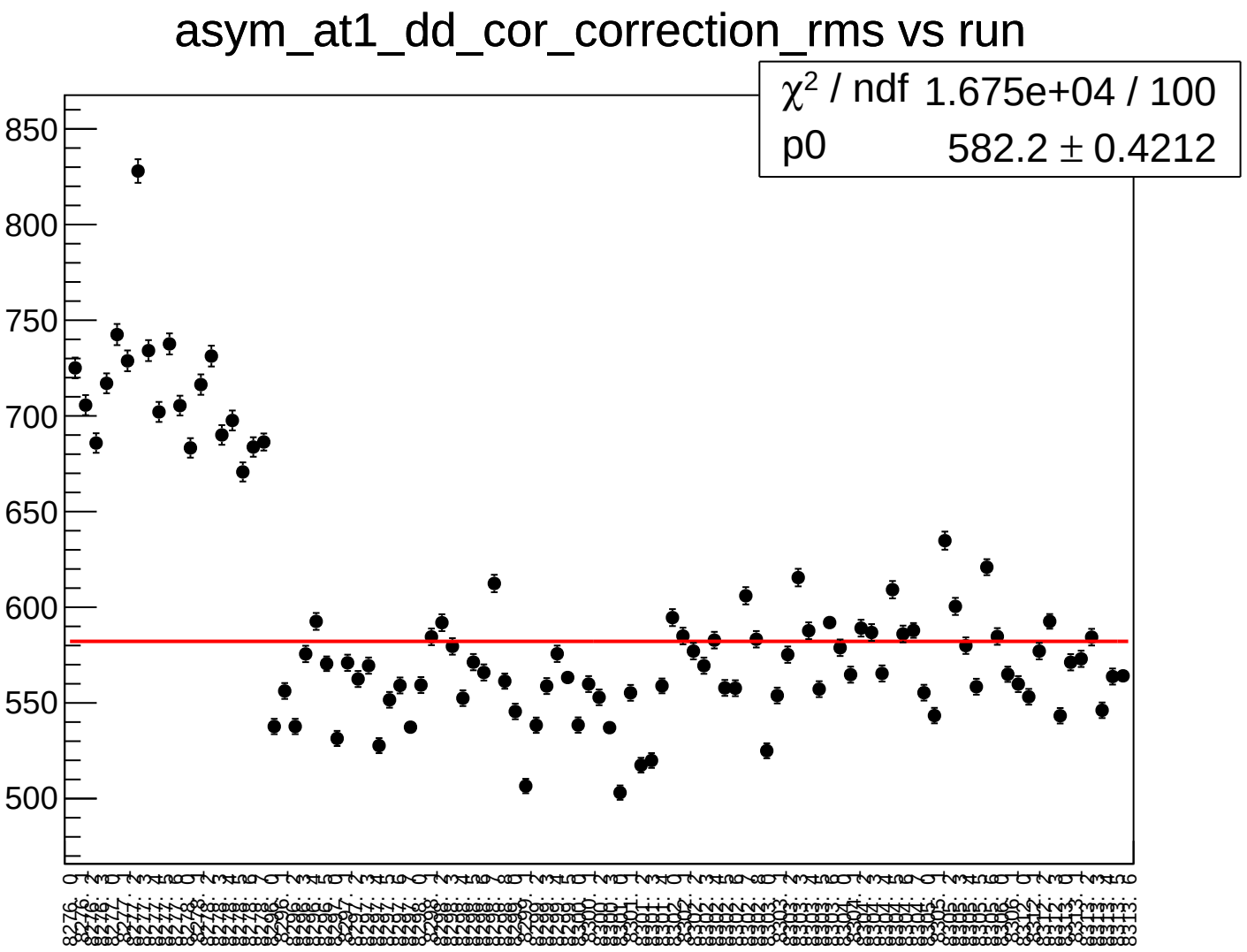

cor_asym_at1_dd_mean vs run
χ² / ndf 89.51 / 100
p0 2006 ± 1834
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −307.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

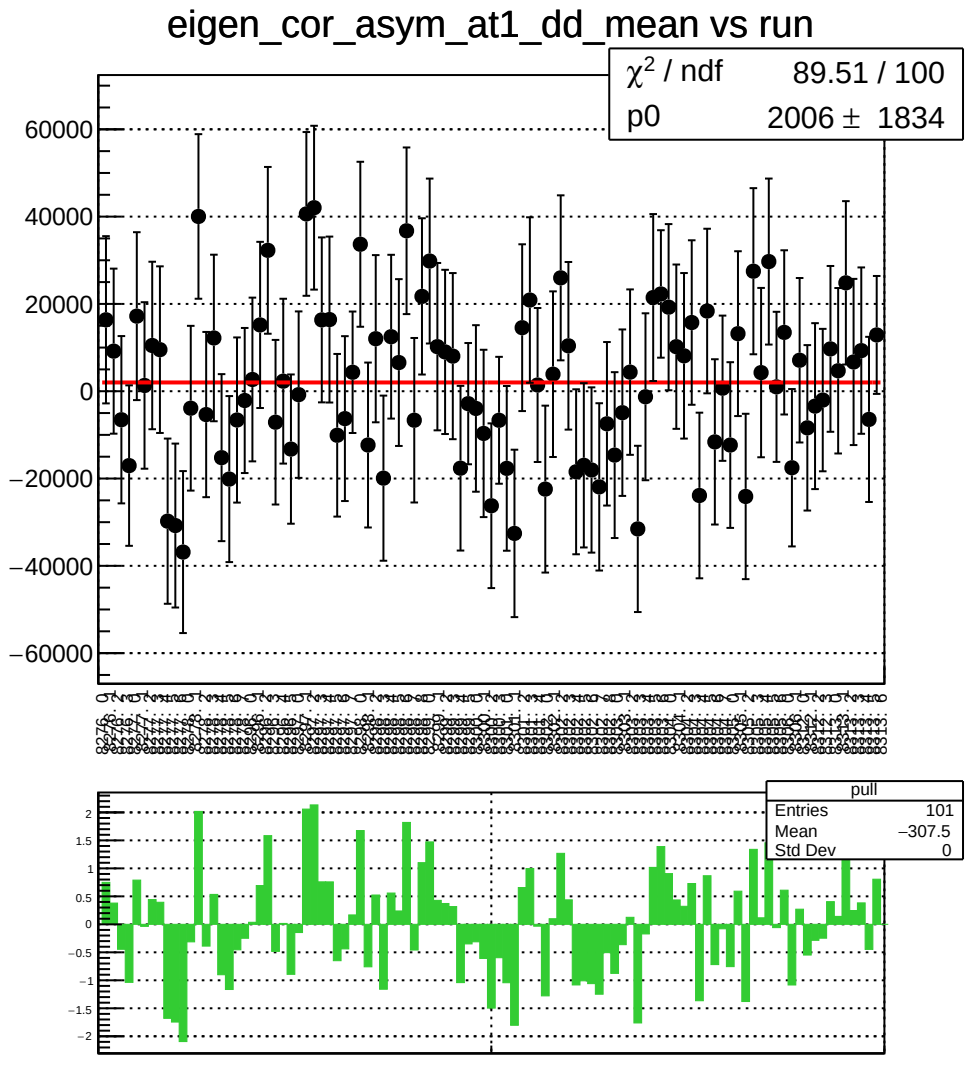

pull1D
Entries 101
Mean −0.002383
Std Dev 0.9414
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

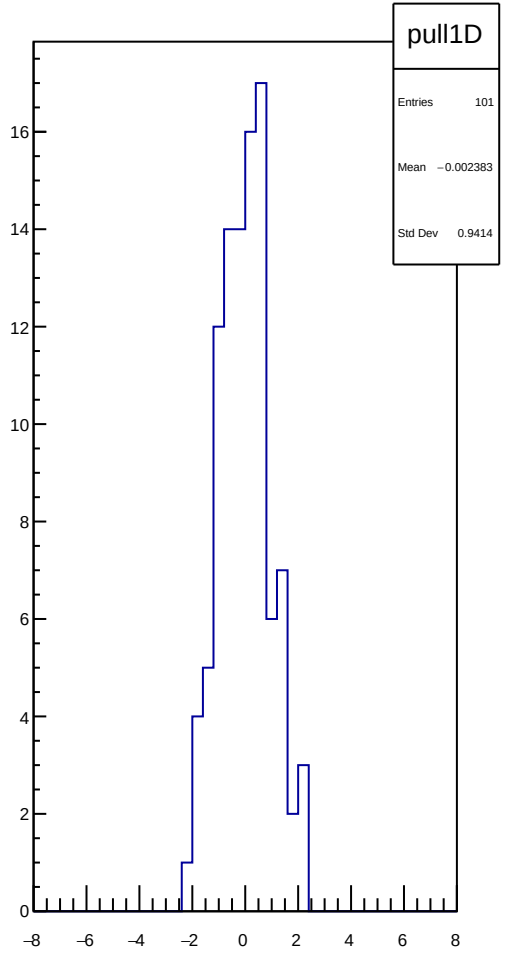

cor_asym_at1_dd_rms vs run
χ^2 / ndf 94.07 / 100
p0 1800 ± 1.297
1860
1840
1820
1800
1780
1760

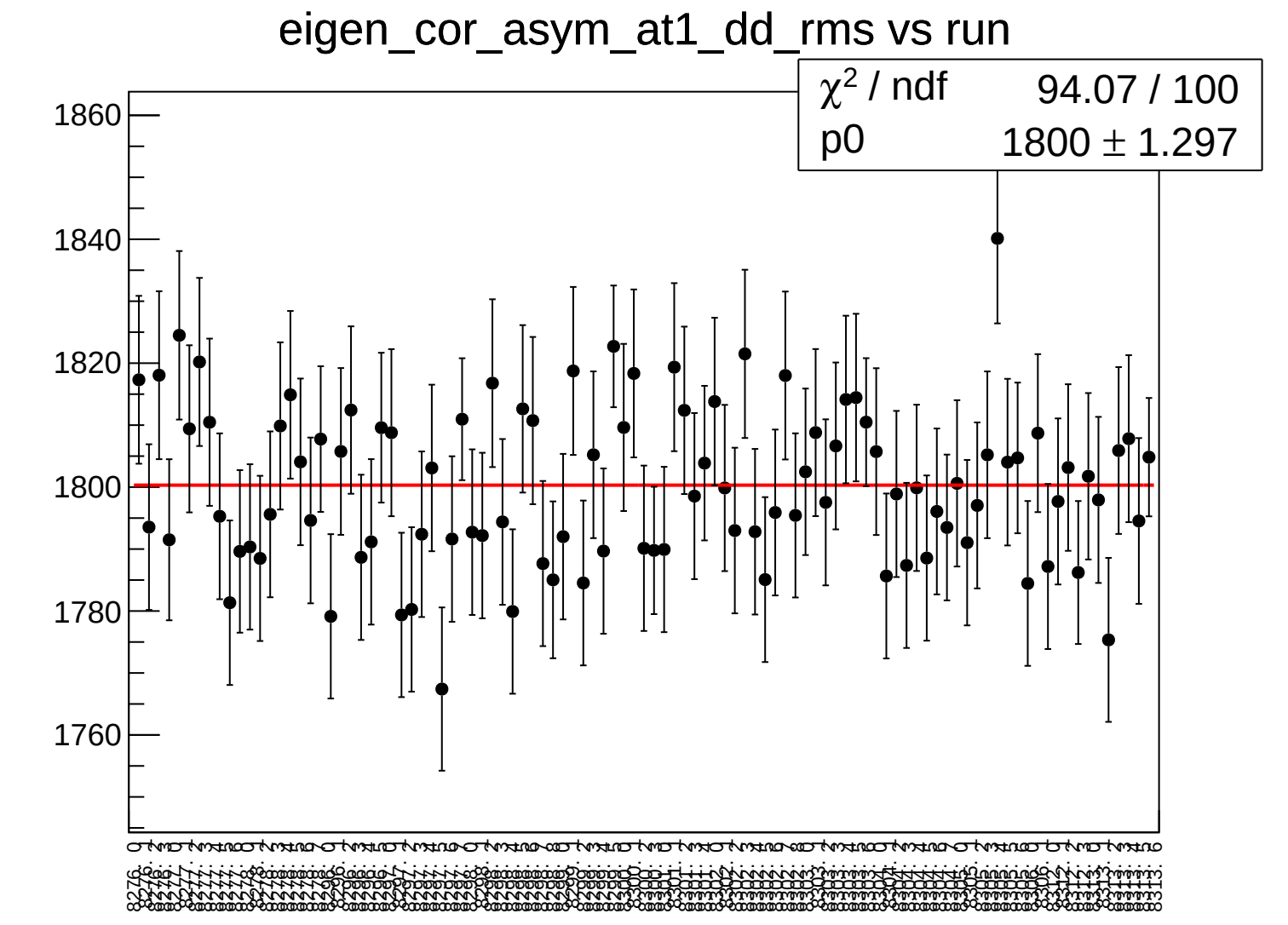

asym_at1_dd_cor_correction_mean vs run
χ² / ndf 105.1 / 100
p0 1994 ± 595.6
20000
10000
0
−10000
−20000
pull
Entries 101
Mean −698.7
Std Dev 0
2
1
0
−1
−2

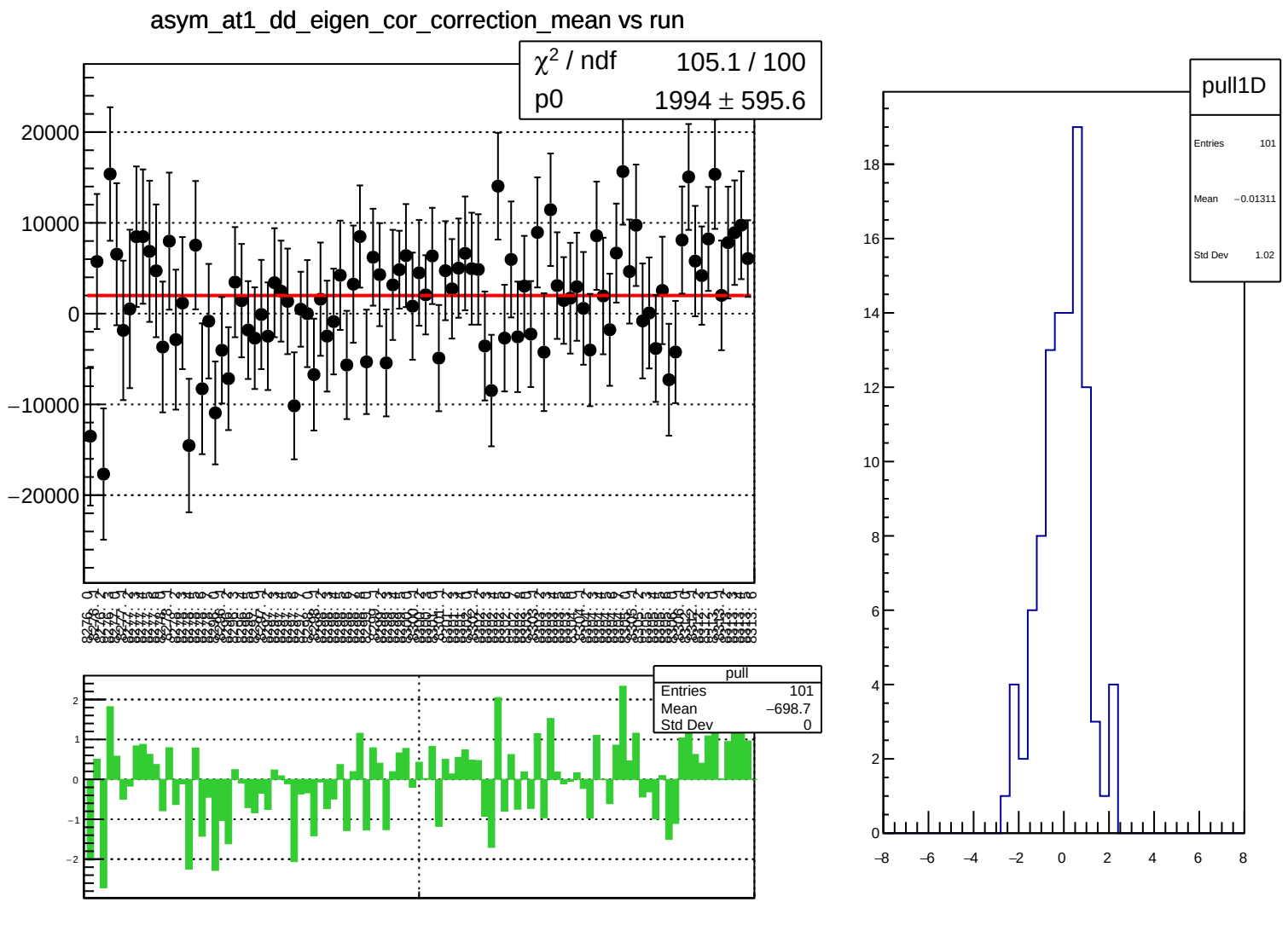

pull1D
Entries 101
Mean −0.01311
Std Dev 1.02
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

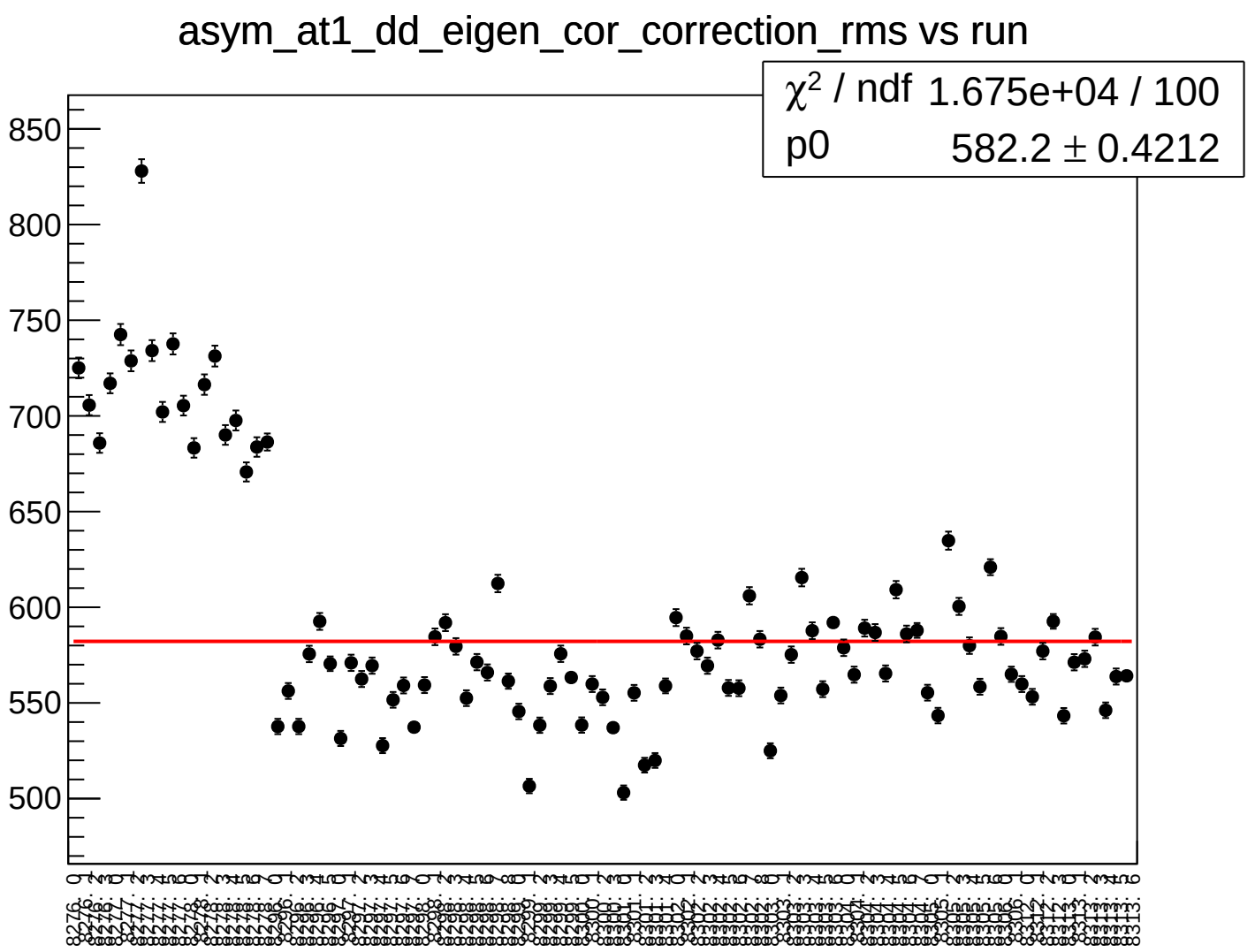

asym_at1_dd_cor_correction_rms vs run
χ² / ndf 1.675e+04 / 100
p0 582.2 ± 0.4212
850
800
750
700
650
600
550
500

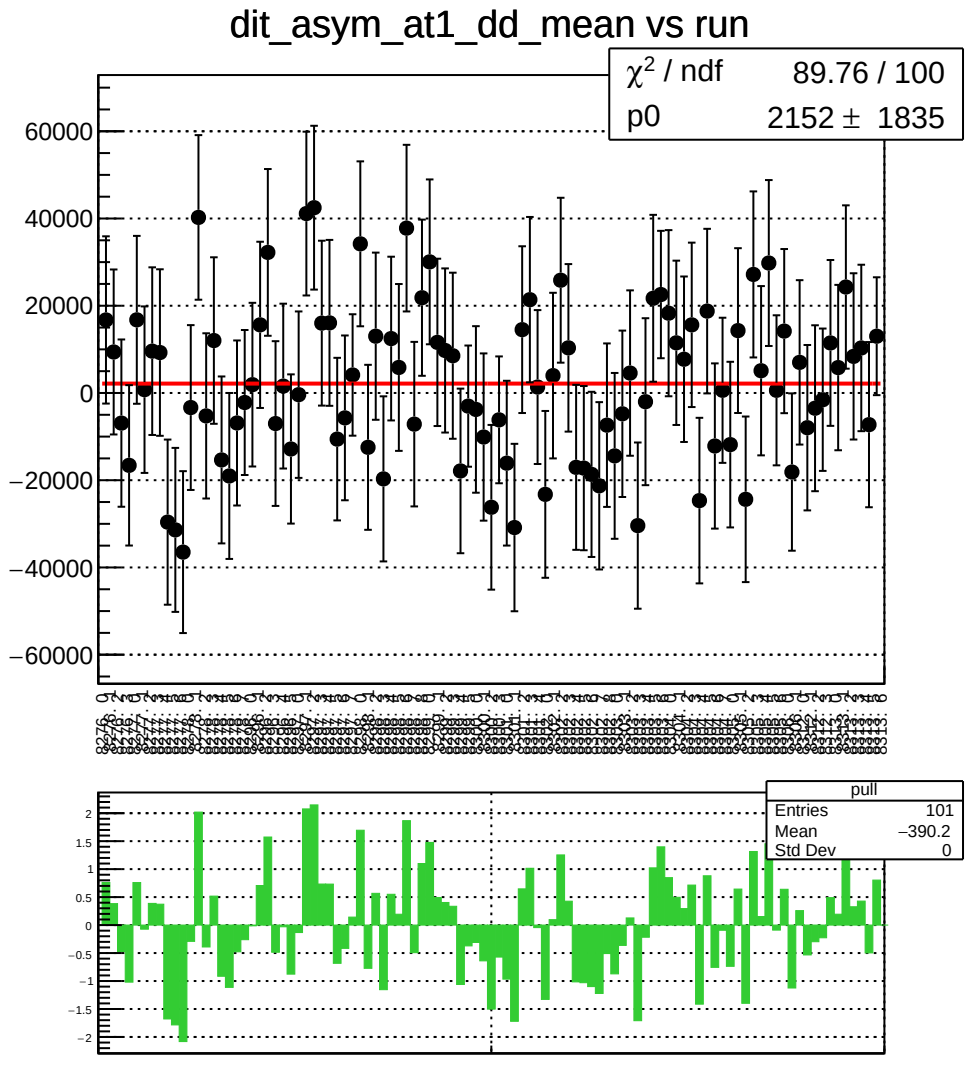

eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 89.51 / 100
p0 2006 ± 1834
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −307.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

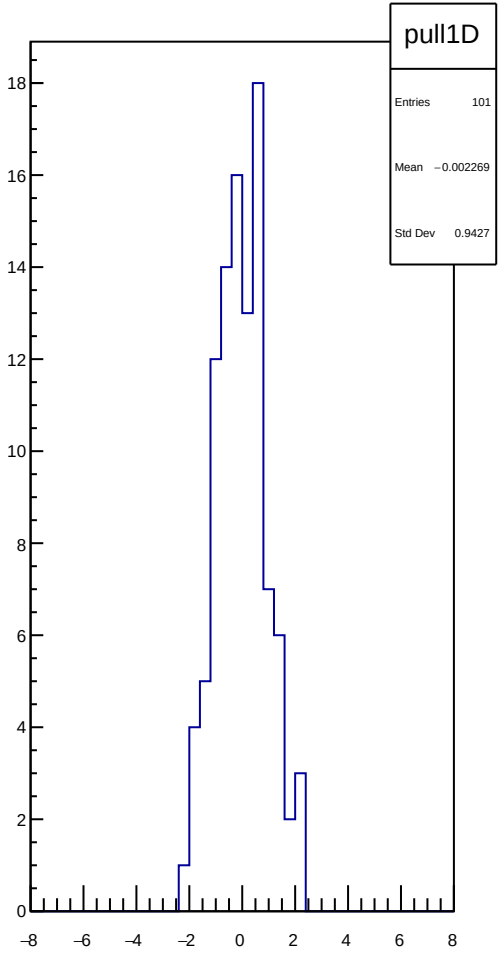

pull1D
Entries 101
Mean −0.002383
Std Dev 0.9414
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

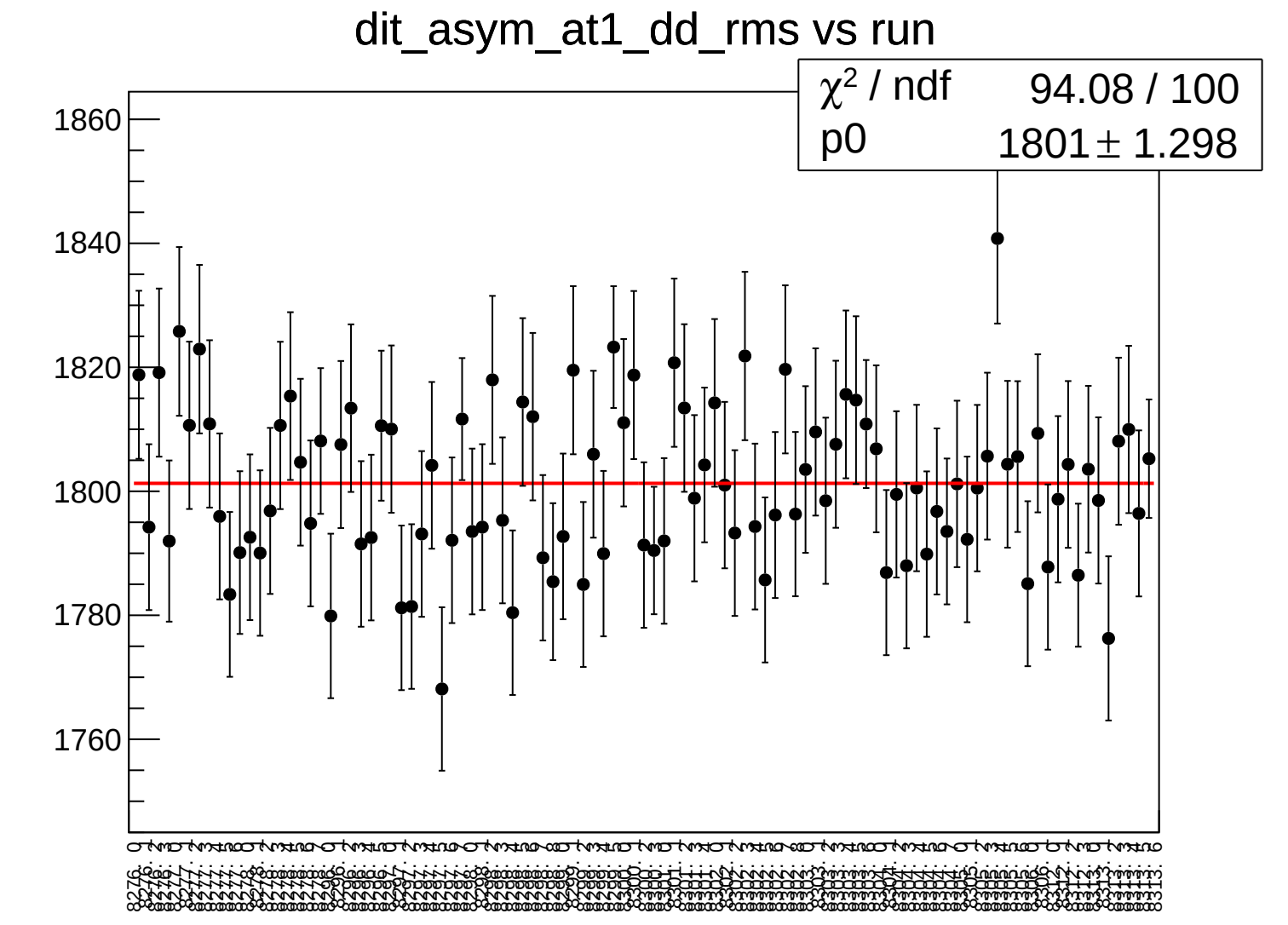

eigen_cor_asym_at1_dd_rms vs run
χ^2 / ndf 94.07 / 100
p0 1800 ± 1.297
1860
1840
1820
1800
1780
1760

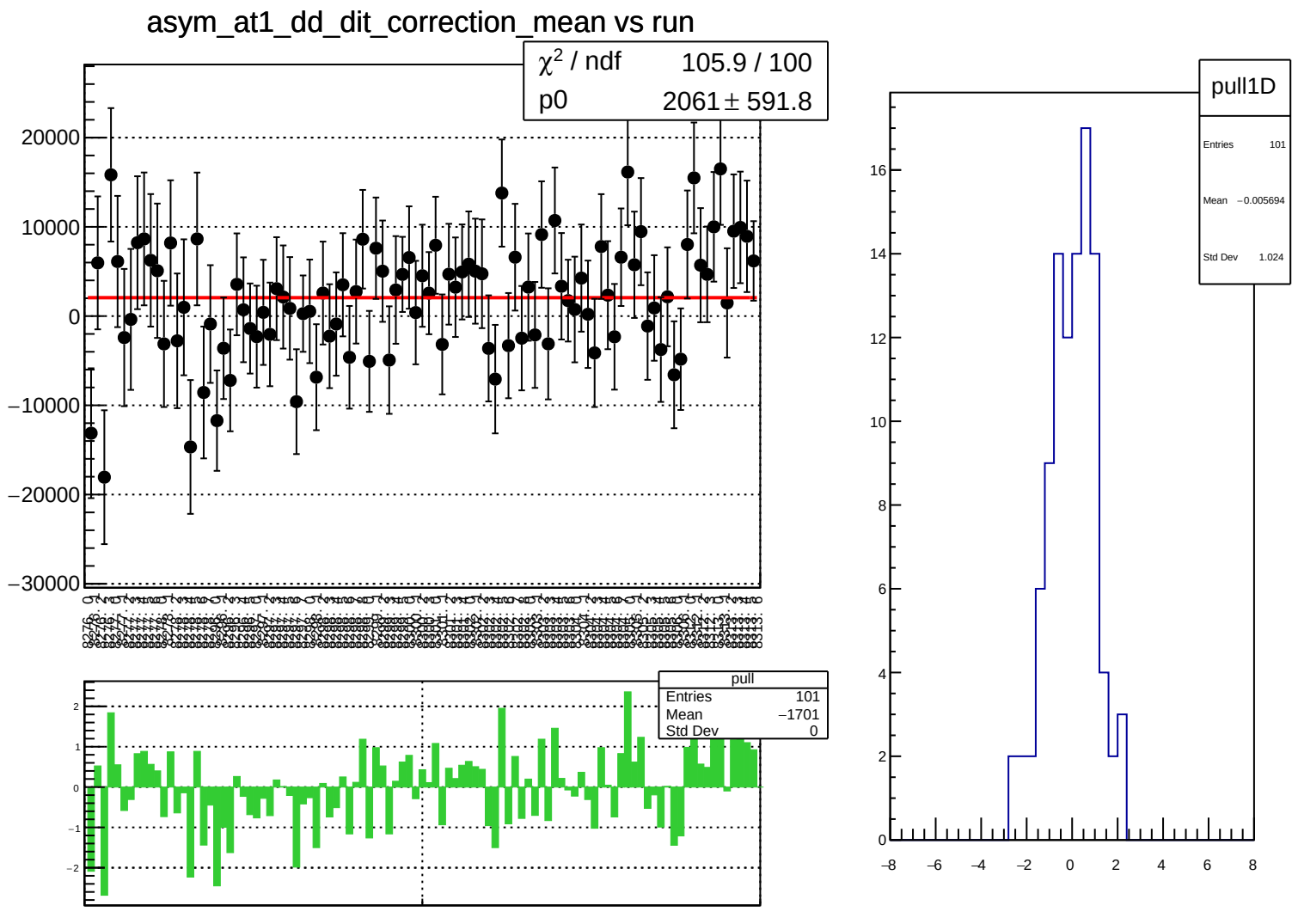

asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 105.1 / 100
p0 1994 ± 595.6
20000
10000
0
−10000
−20000
pull
Entries 101
Mean −698.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.01311
Std Dev 1.02
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

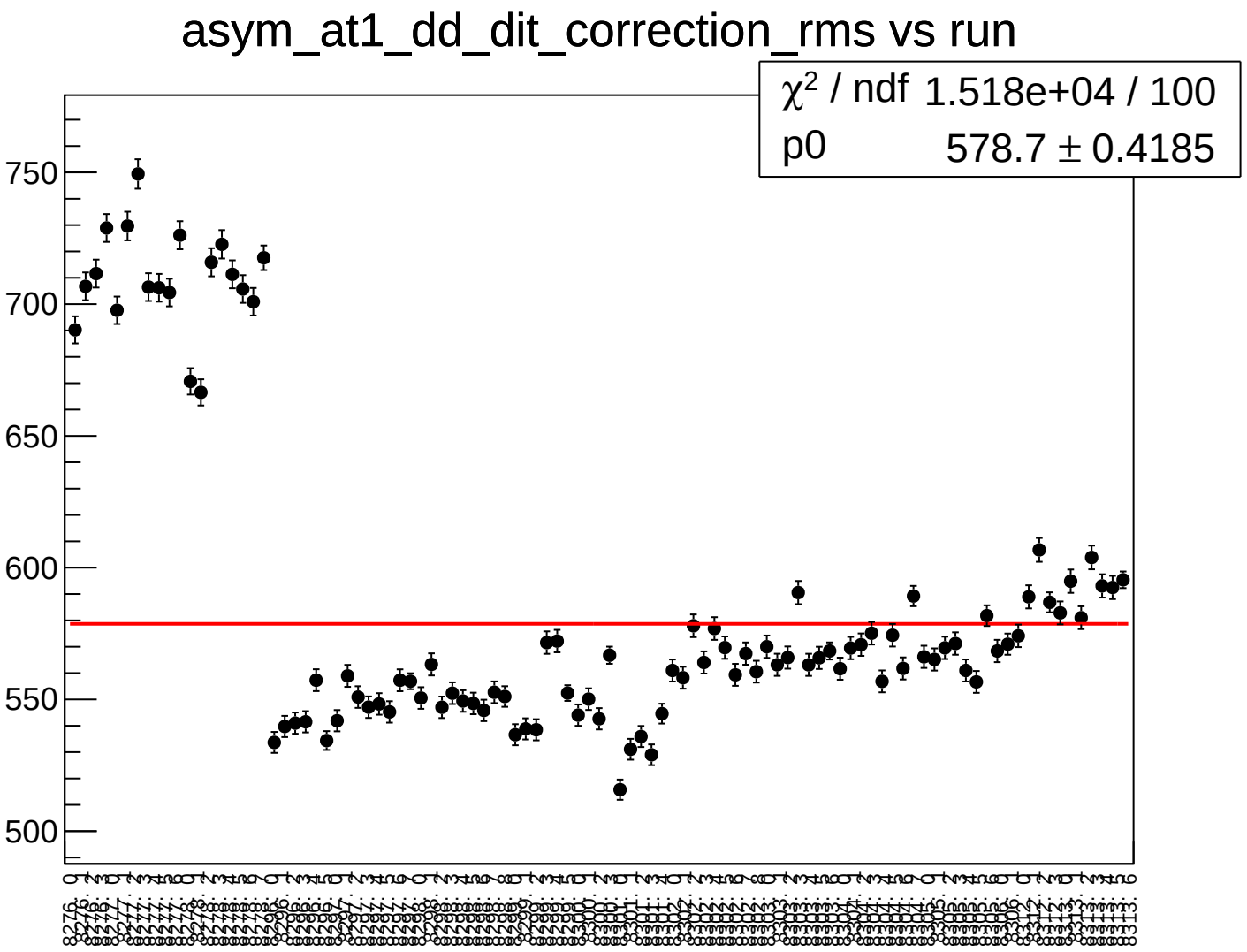

asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.675e+04 / 100
p0 582.2 ± 0.4212
850
800
750
700
650
600
550
500

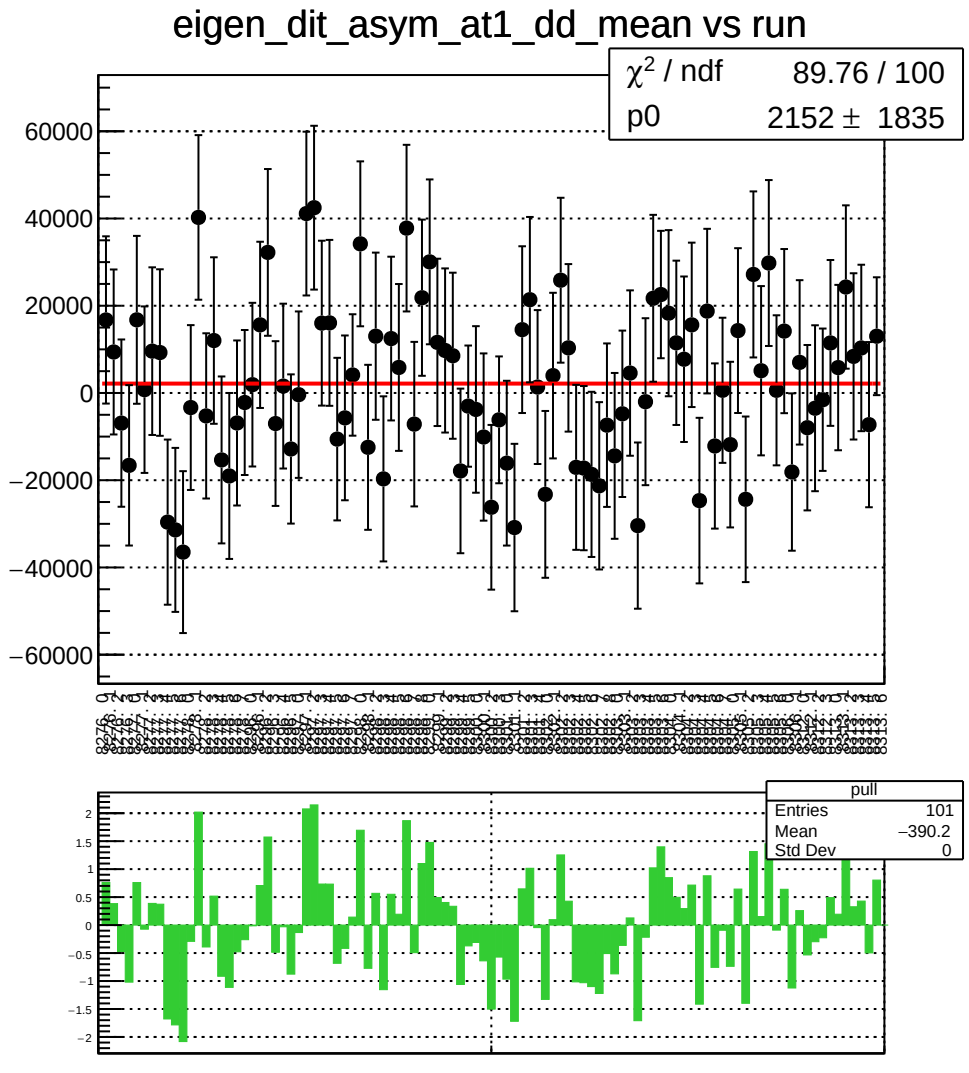

dit_asym_at1_dd_mean vs run
χ² / ndf 89.76 / 100
p0 2152 ± 1835
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −390.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

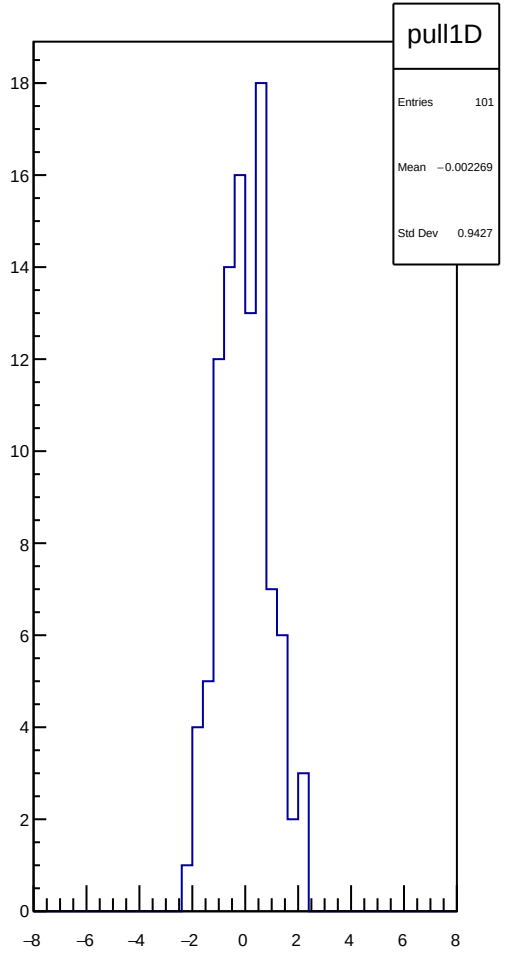

pull1D
Entries 101
Mean −0.002269
Std Dev 0.9427
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

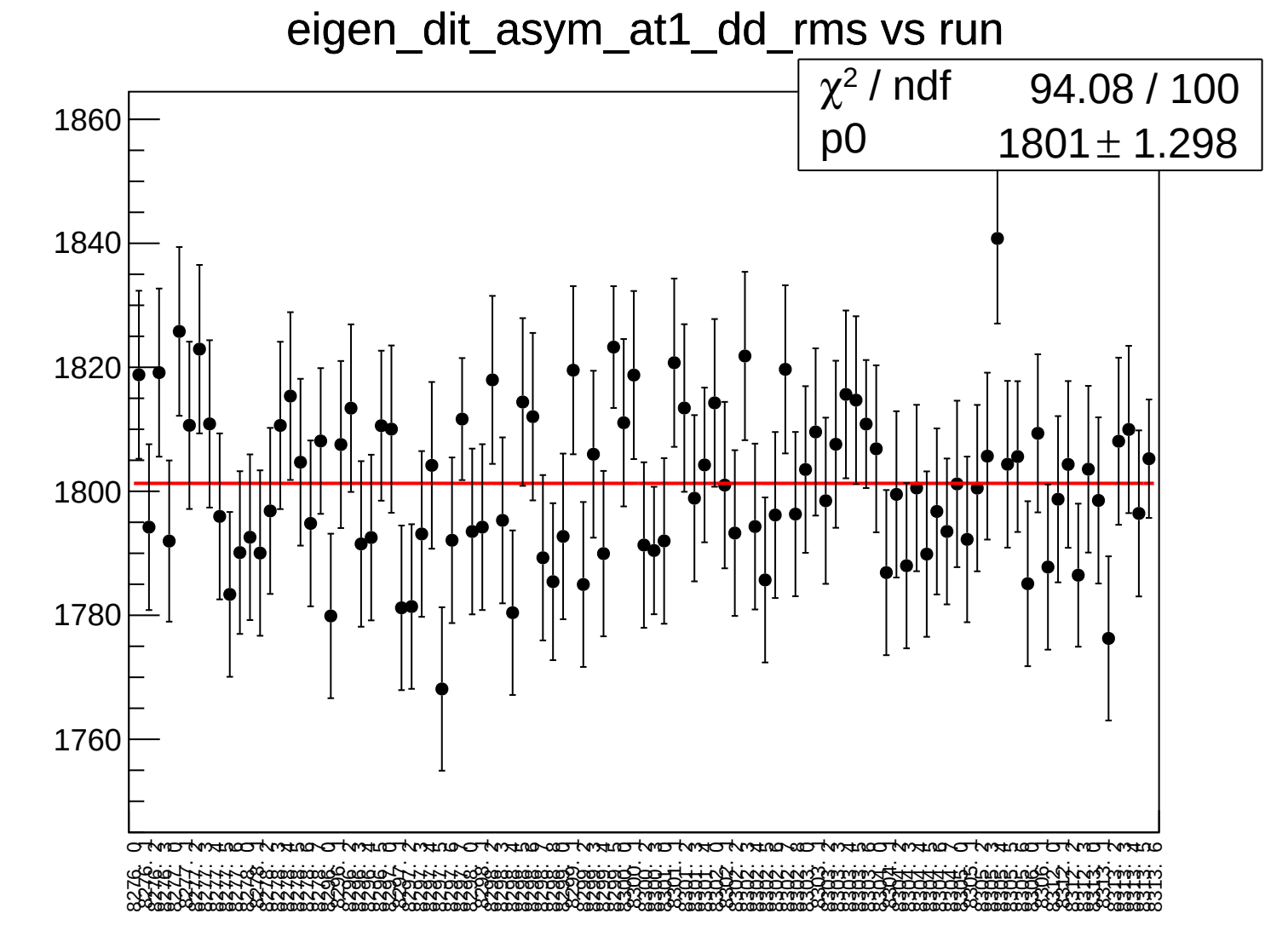

dit_asym_at1_dd_rms vs run
χ² / ndf 94.08 / 100
p0 1801 ± 1.298
1860
1840
1820
1800
1780
1760

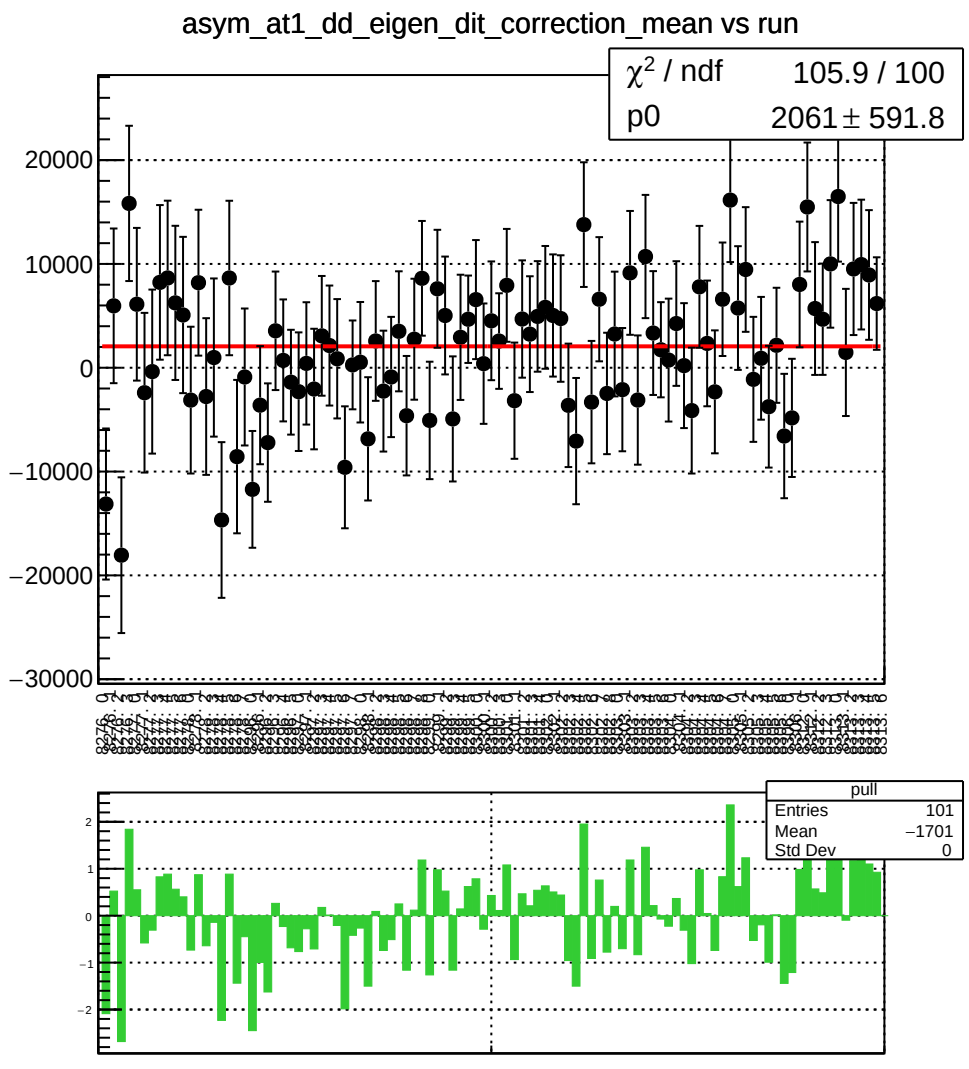

asym_at1_dd_dit_correction_mean vs run
χ² / ndf 105.9 / 100
p0 2061 ± 591.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 101
Mean −1701
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.005694
Std Dev 1.024
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

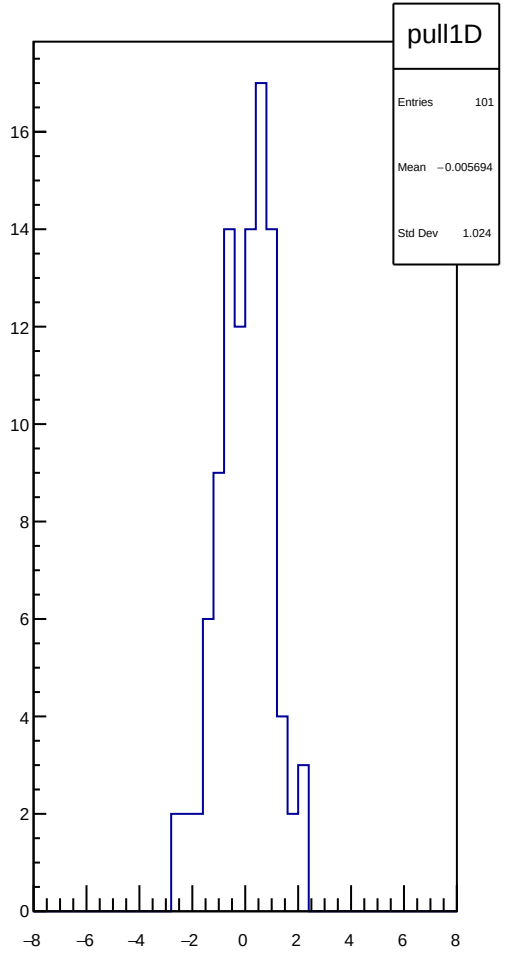

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 1.518e+04 / 100
p0 578.7 ± 0.4185
750
700
650
600
550
500

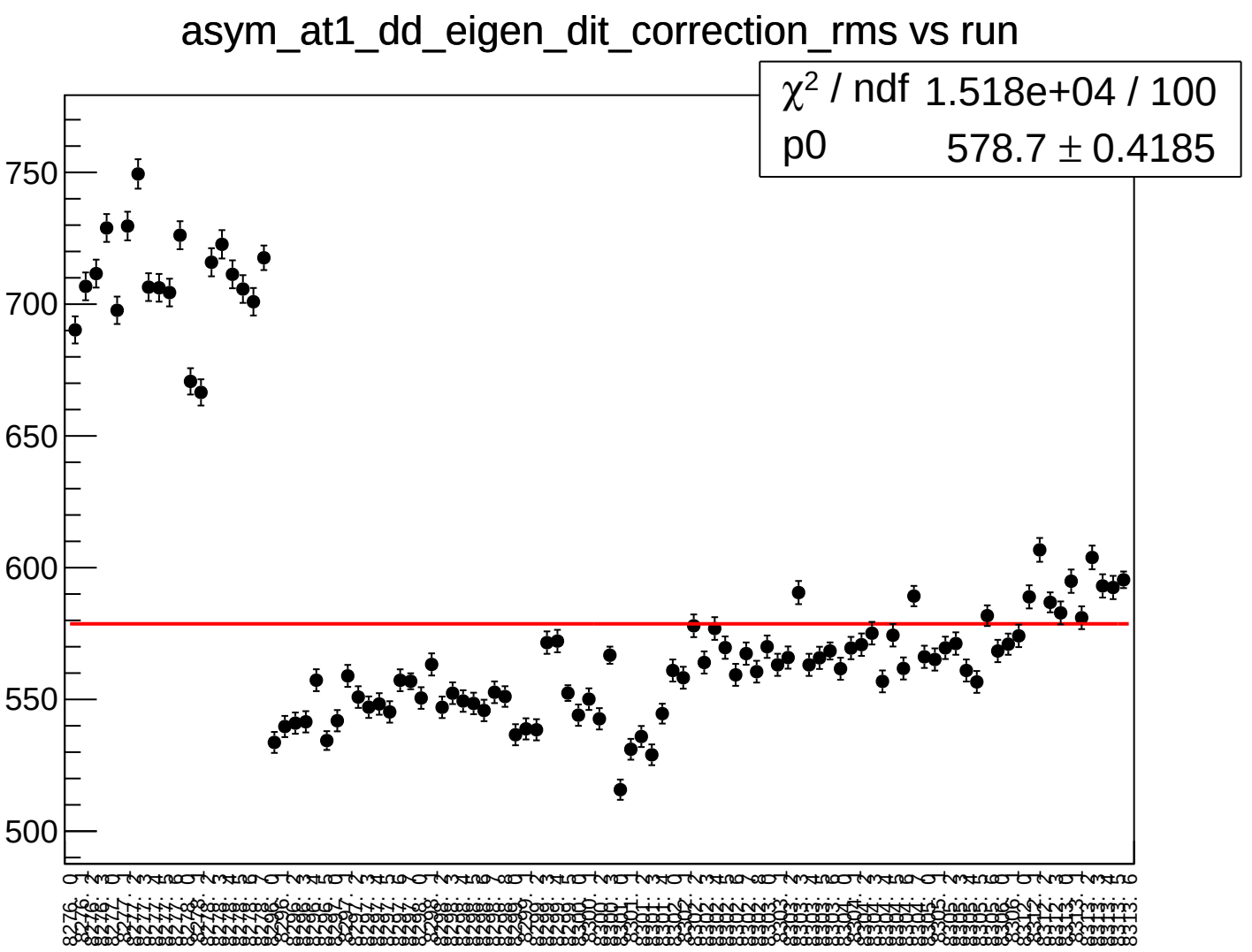

eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 89.76 / 100
p0 2152 ± 1835
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −390.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

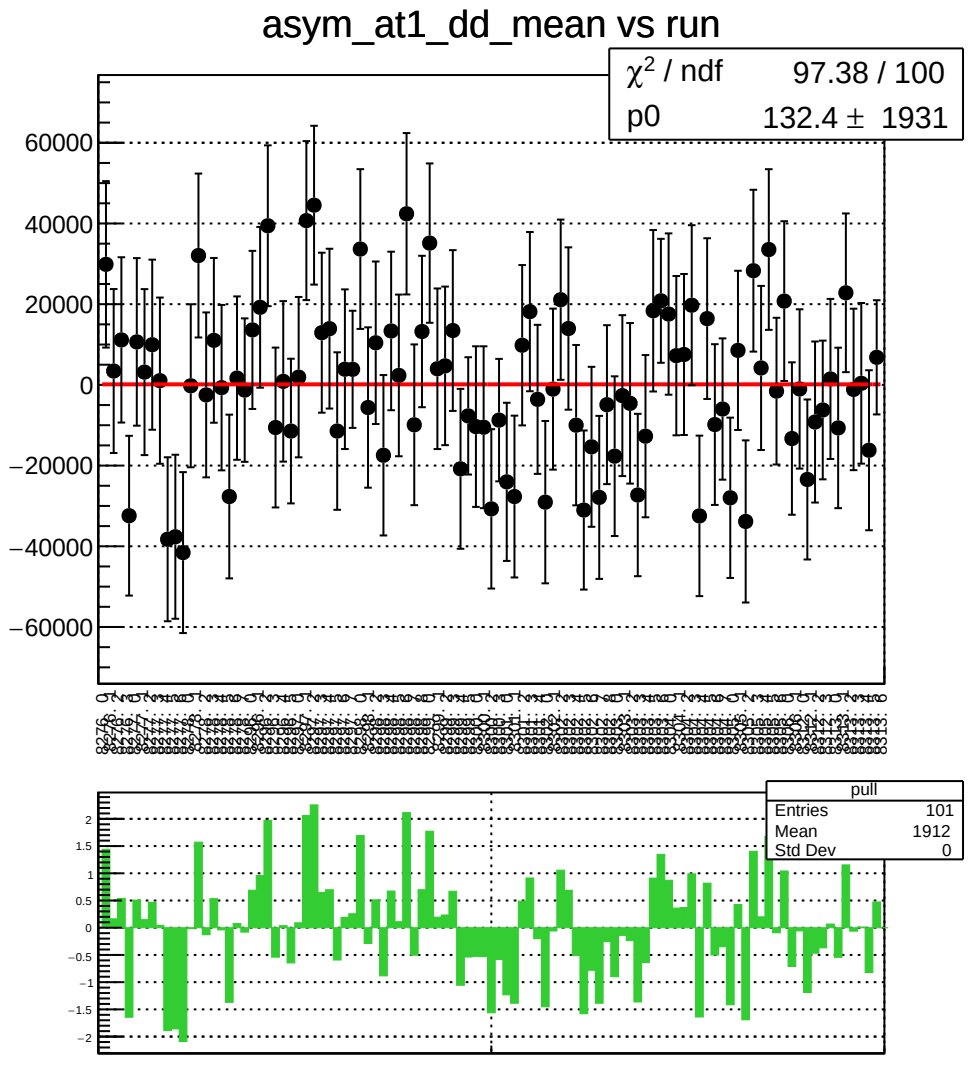

pull1D
Entries 101
Mean −0.002269
Std Dev 0.9427
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

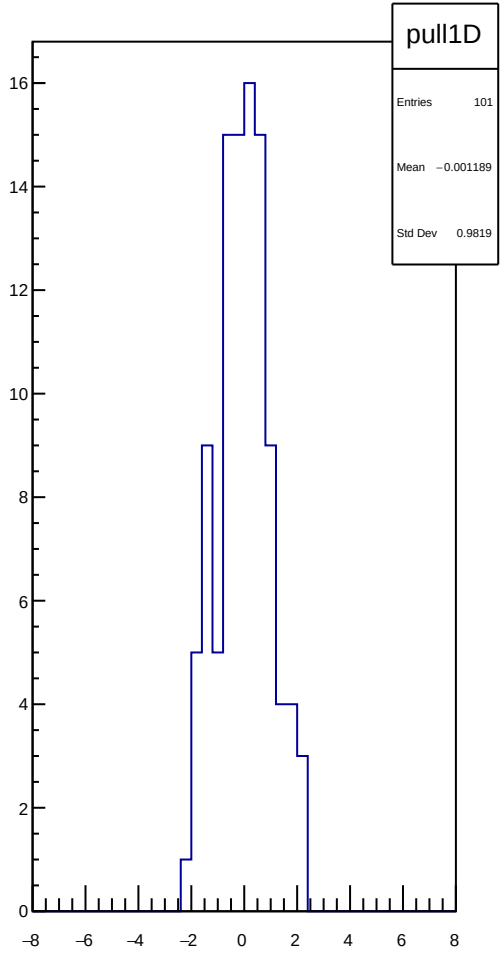

eigen_dit_asym_at1_dd_rms vs run
χ^2 / ndf 94.08 / 100
p0 1801 ± 1.298
1860
1840
1820
1800
1780
1760

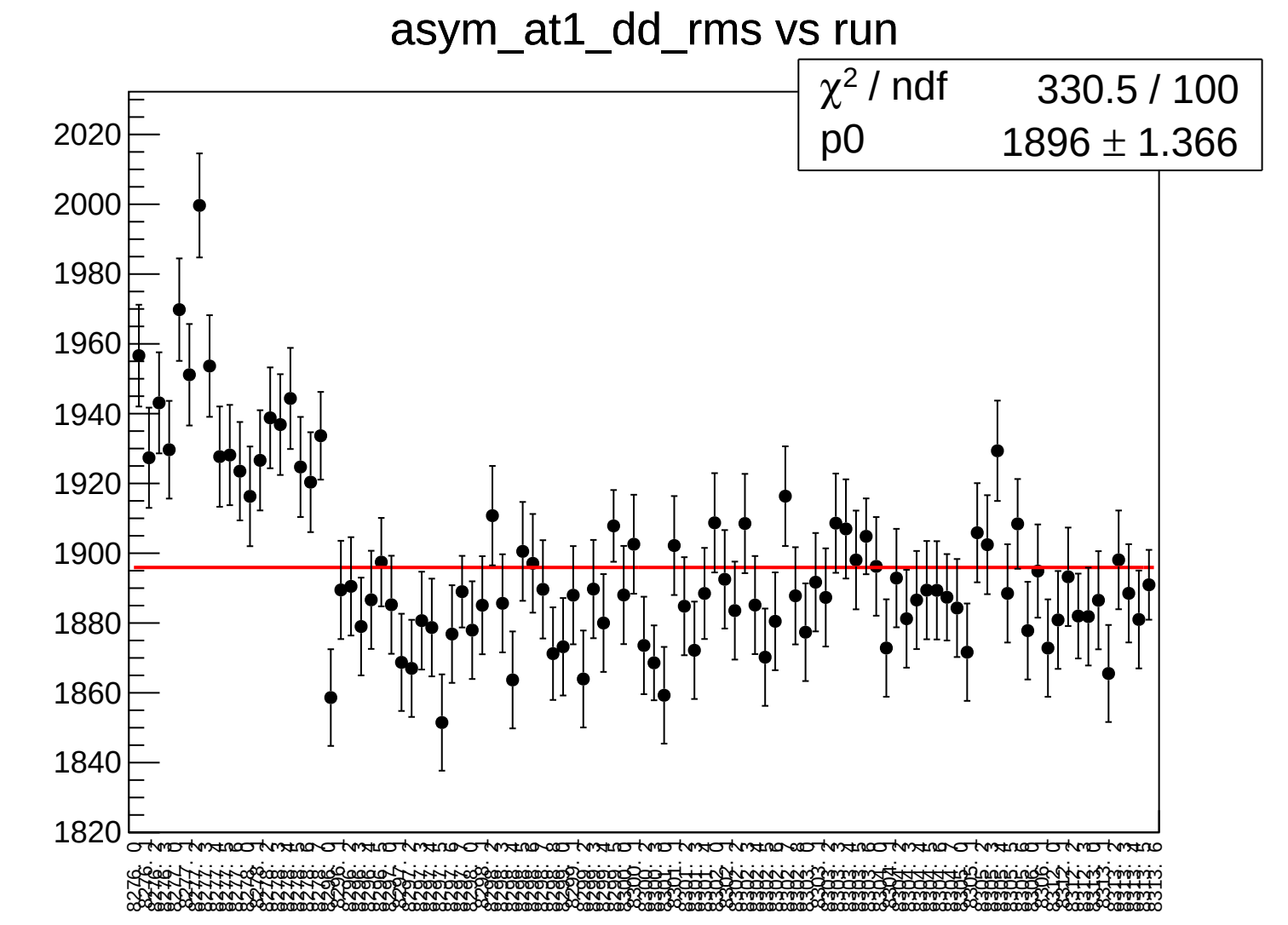

asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 105.9 / 100
p0 2061 ± 591.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 101
Mean −1701
Std Dev 0
2
1
0
−1
−2

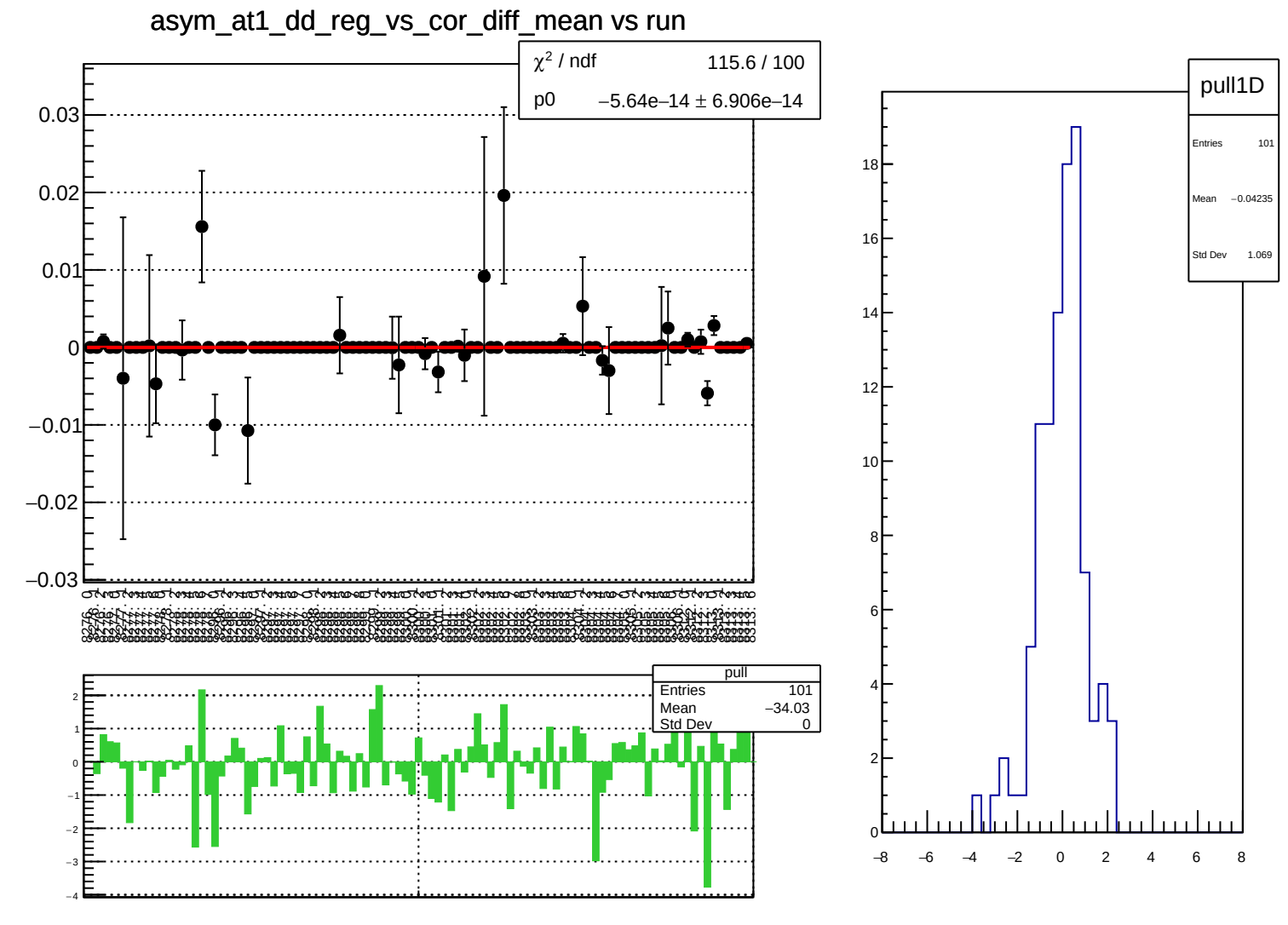

pull1D
Entries 101
Mean −0.005694
Std Dev 1.024
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

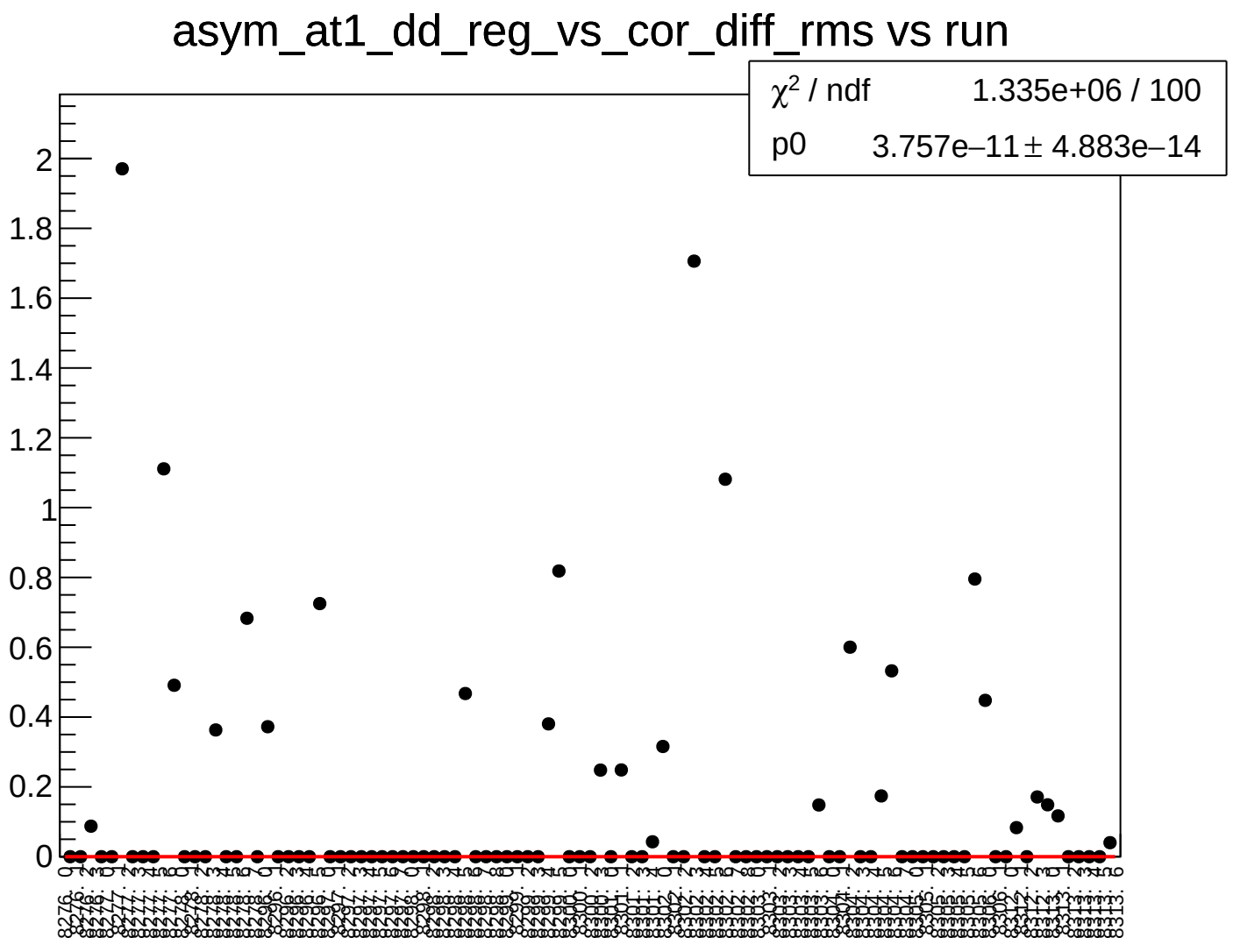

asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.518e+04 / 100
p0 578.7 ± 0.4185
750
700
650
600
550
500

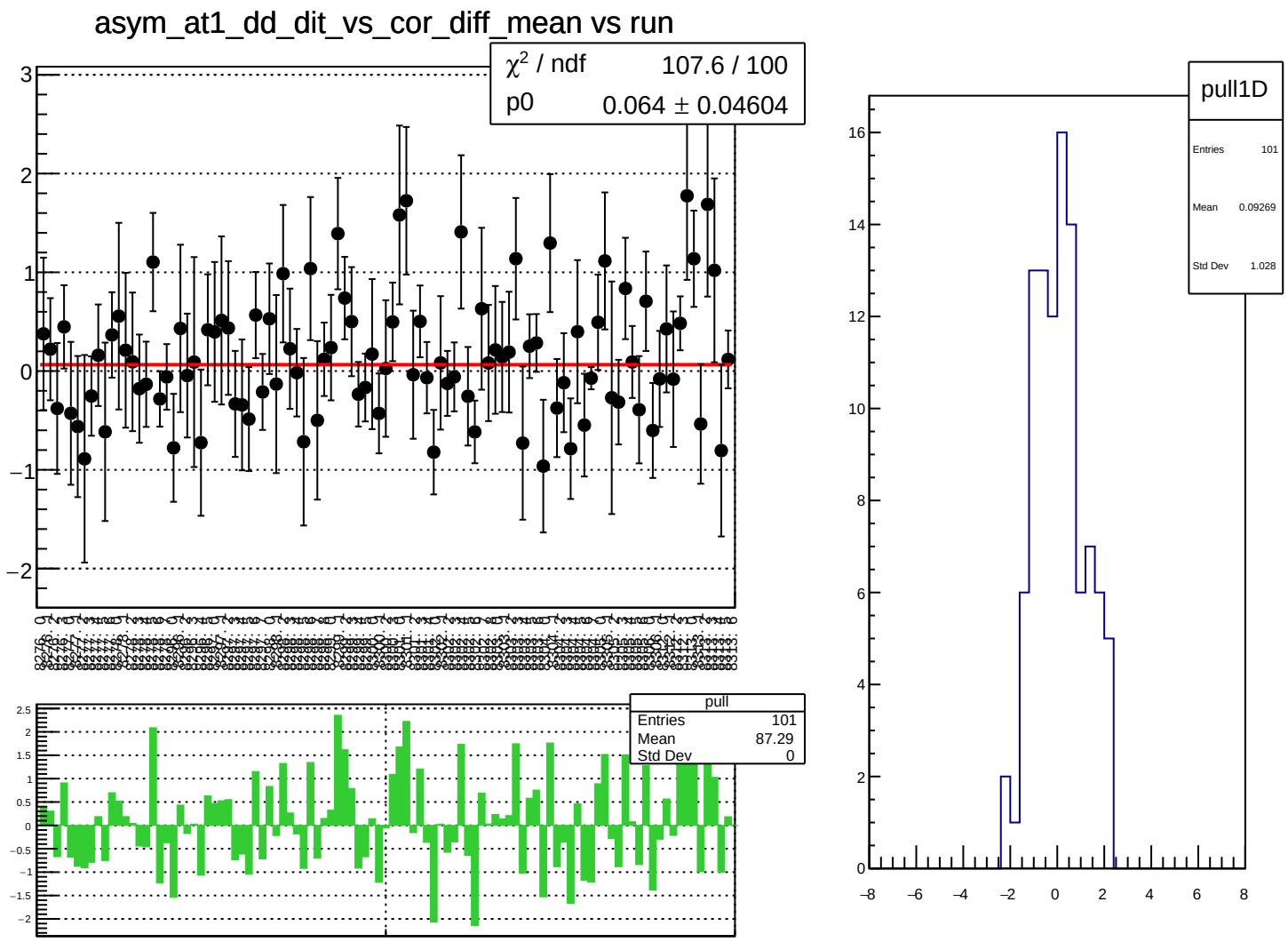

asym_at1_dd_mean vs run
χ² / ndf 97.38 / 100
p0 132.4 ± 1931
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean 1912
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

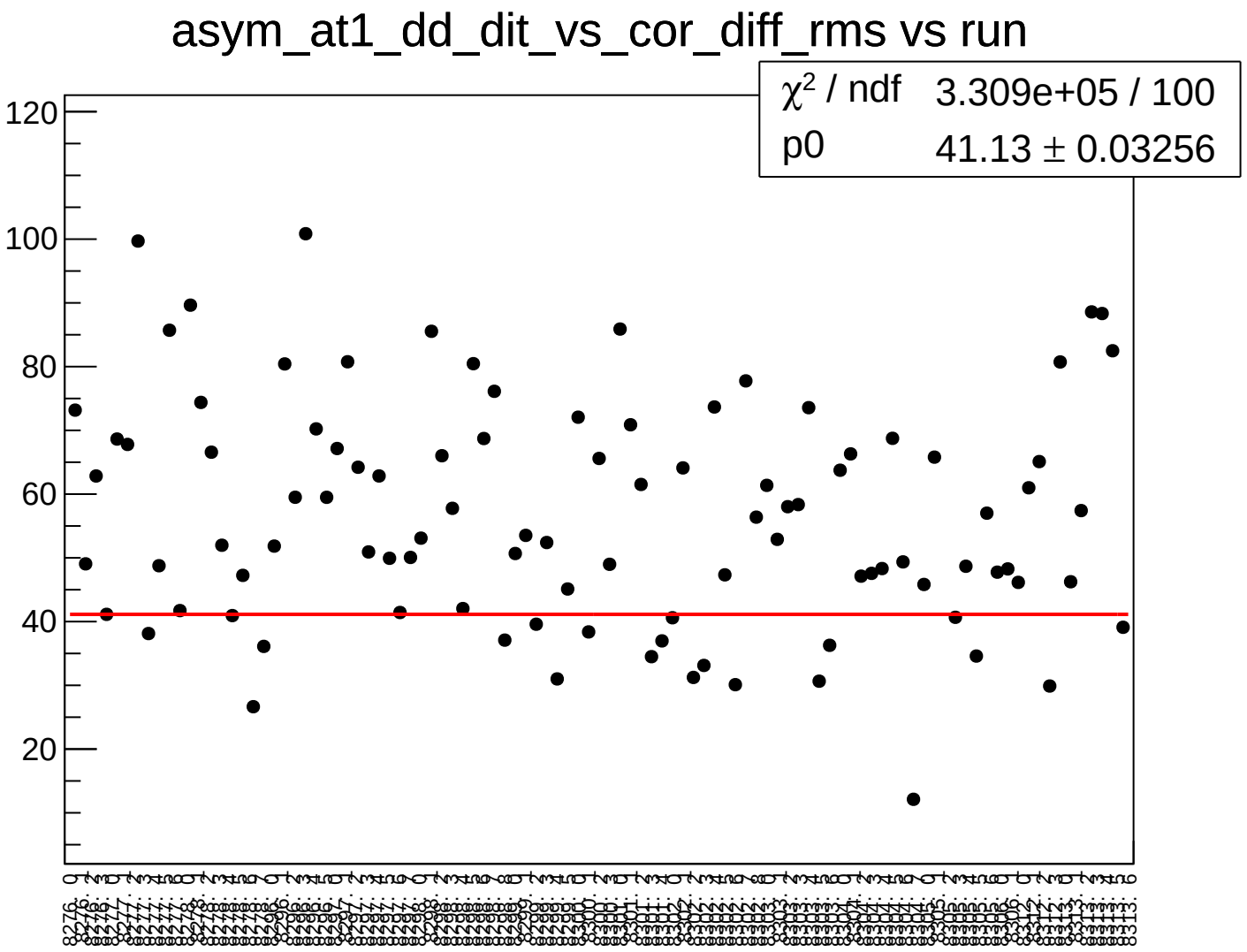

pull1D
Entries 101
Mean −0.001189
Std Dev 0.9819
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

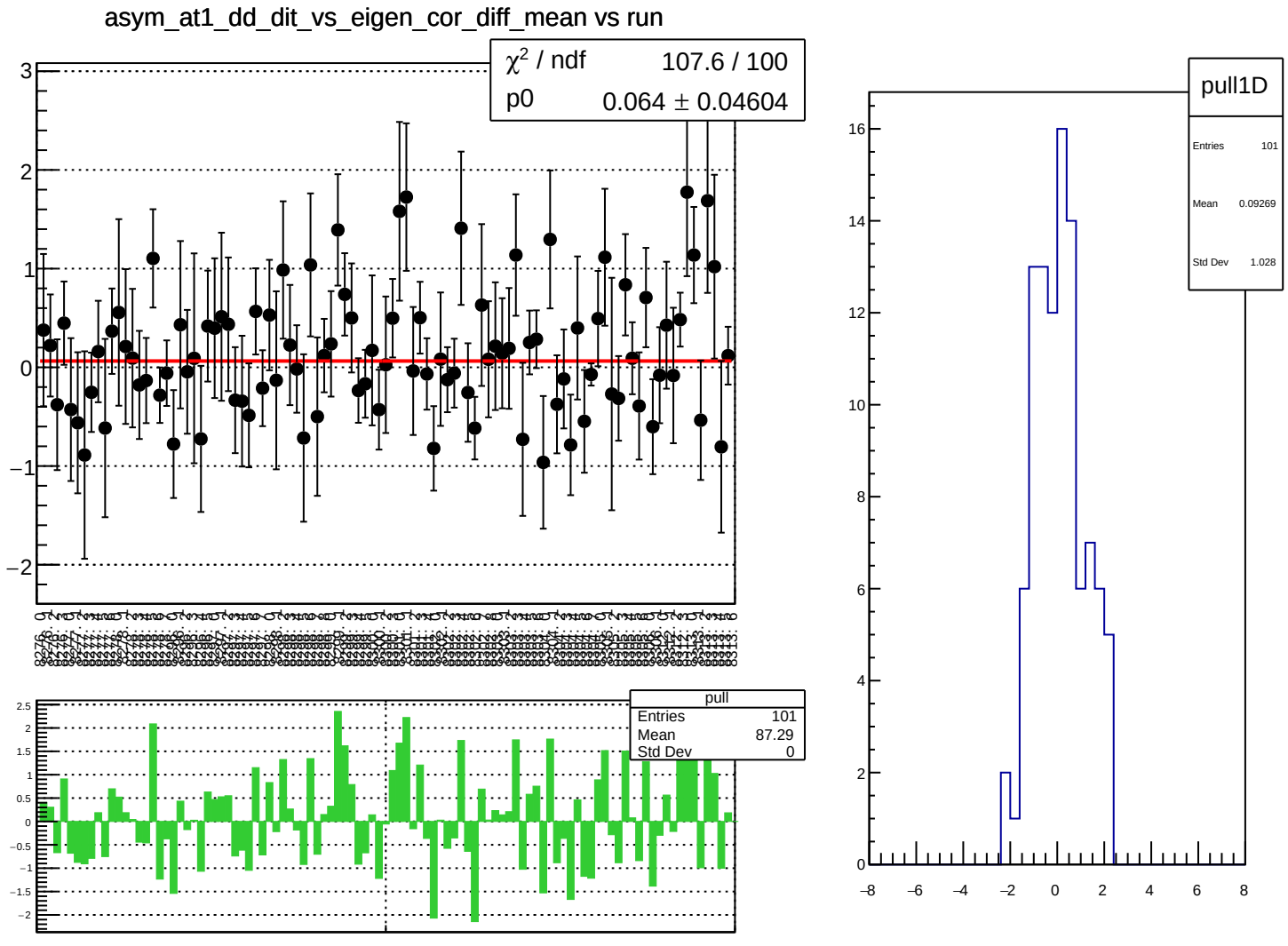

asym_at1_dd_rms vs run
χ^2 / ndf 330.5 / 100
p0 1896 ± 1.366
2020
2000
1980
1960
1940
1920
1900
1880
1860
1840
1820

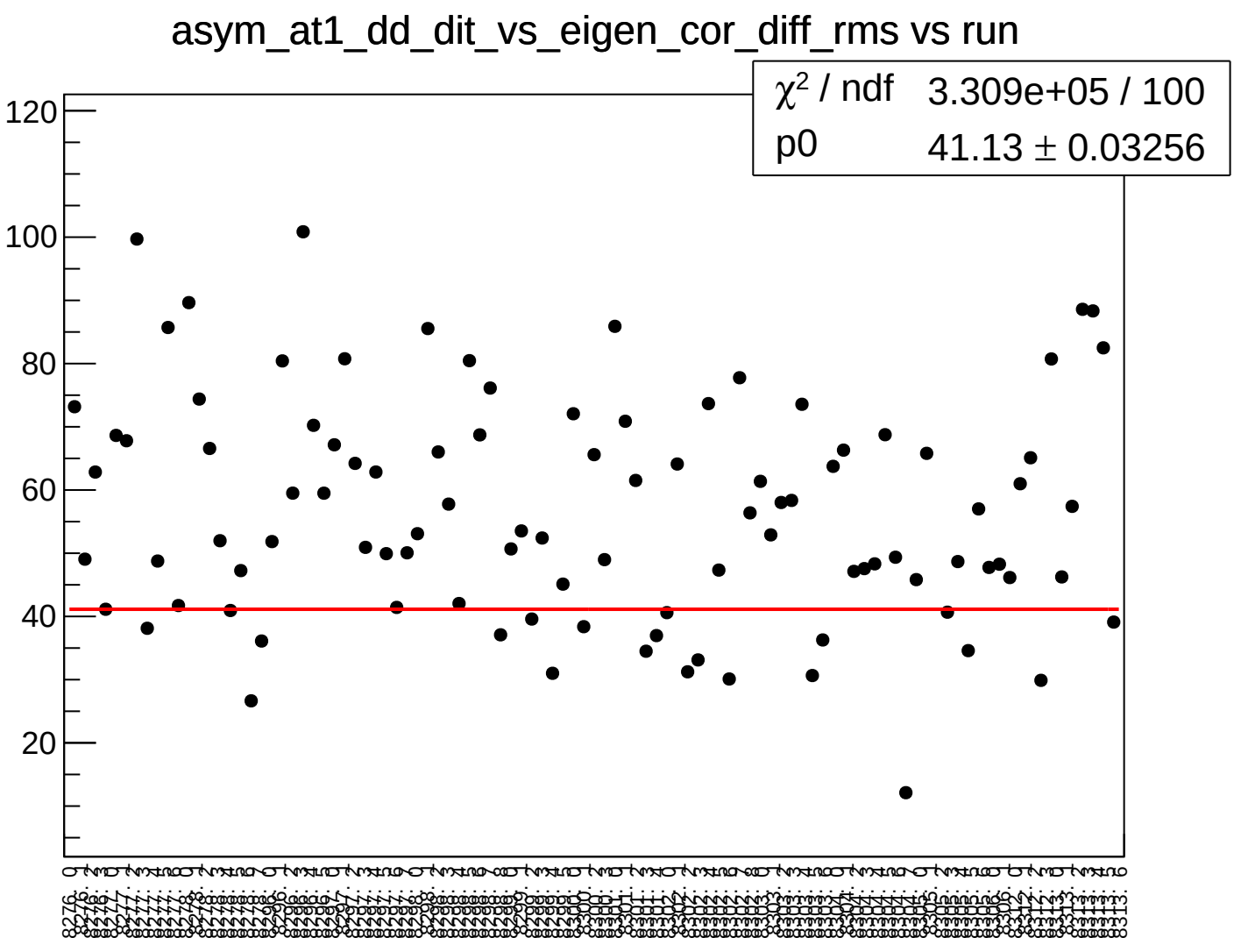

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 115.6 / 100
p0 −5.64e−14 ± 6.906e−14
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 101
Mean −34.03
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 101
Mean −0.04235
Std Dev 1.069
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

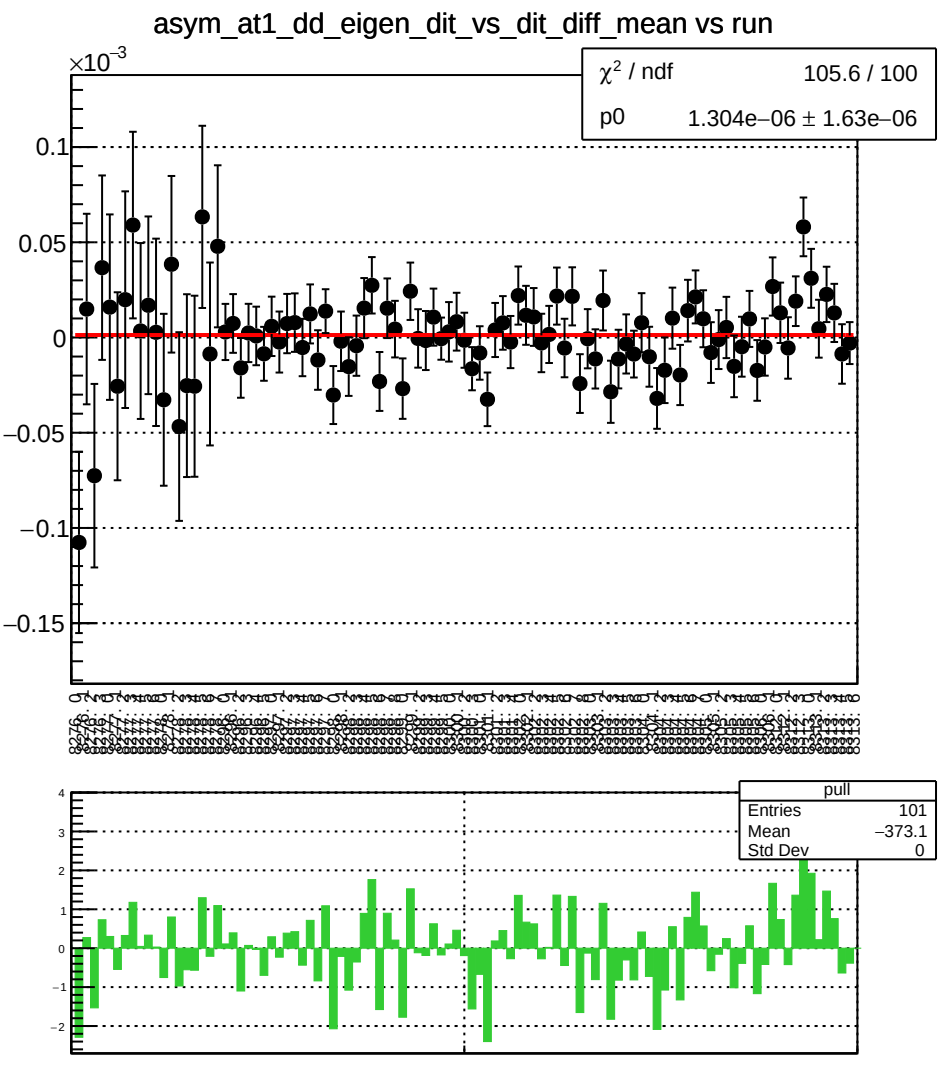

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.335e+06 / 100
p0 3.757e−11 ± 4.883e−14
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

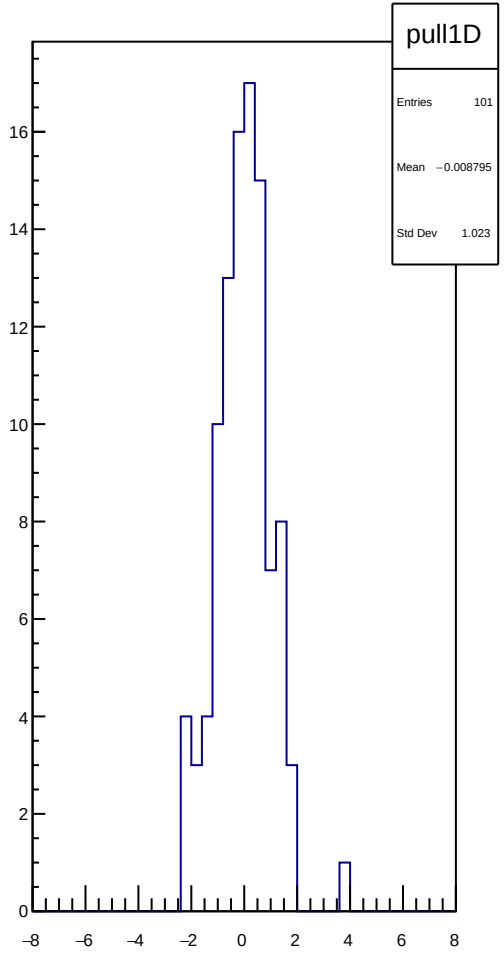

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 107.6 / 100
p0 0.064 ± 0.04604
pull
Entries 101
Mean 87.29
Std Dev 0
pull1D
Entries 101
Mean 0.09269
Std Dev 1.028

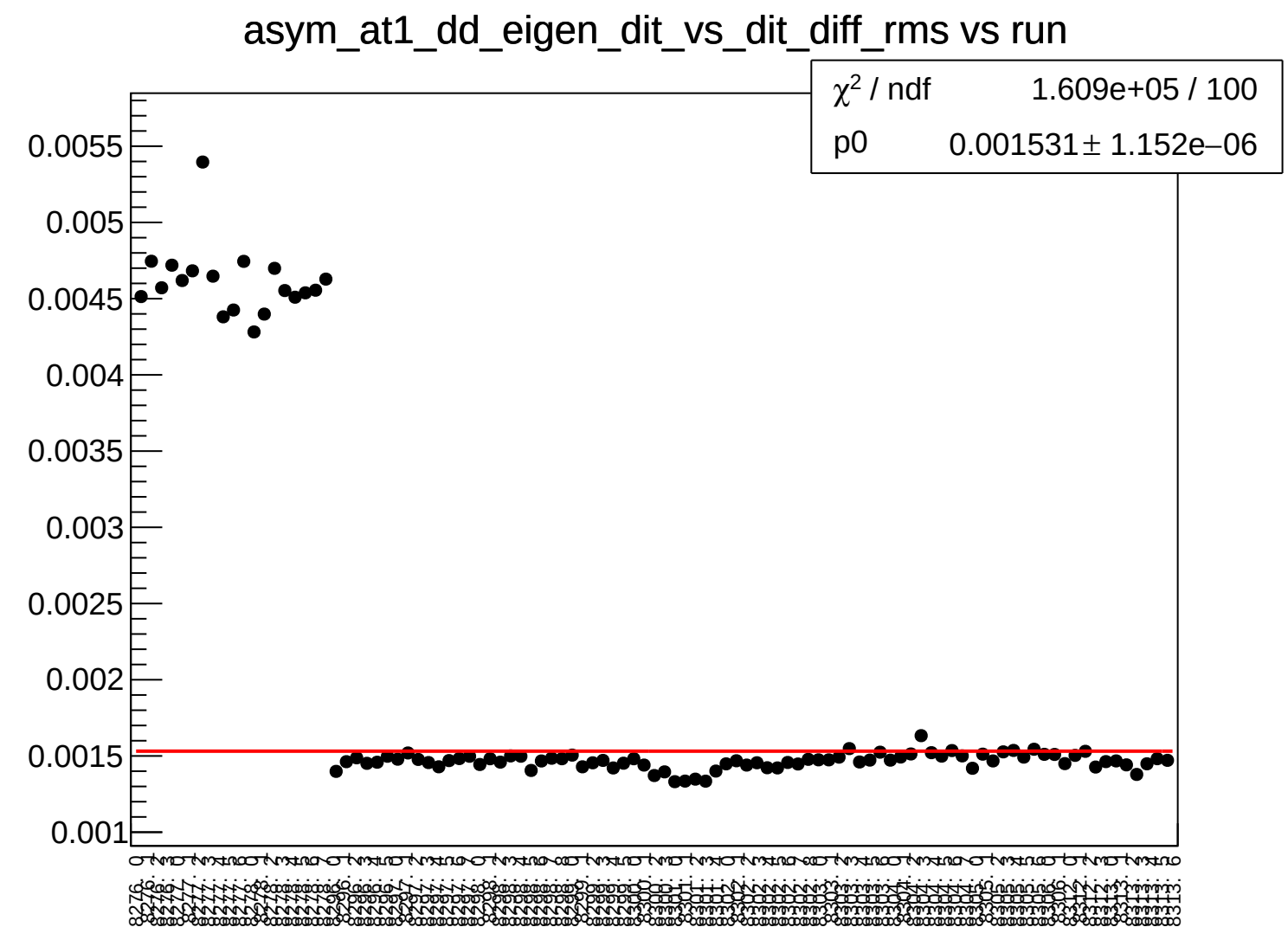

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.309e+05 / 100
p0 41.13 ± 0.03256
120
100
80
60
40
20

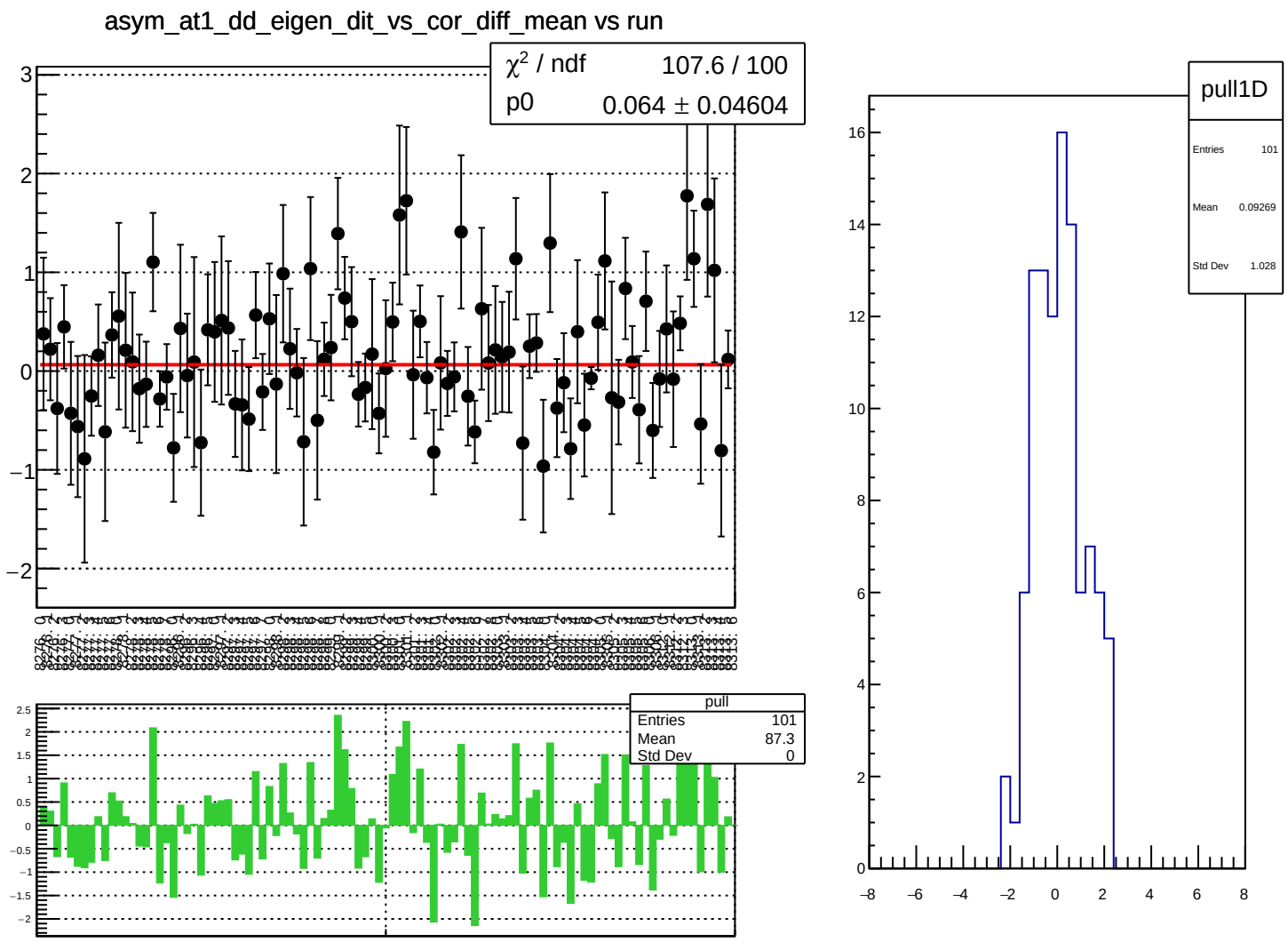

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.6 / 100
p0 0.064 ± 0.04604
pull
Entries 101
Mean 87.29
Std Dev 0
pull1D
Entries 101
Mean 0.09269
Std Dev 1.028

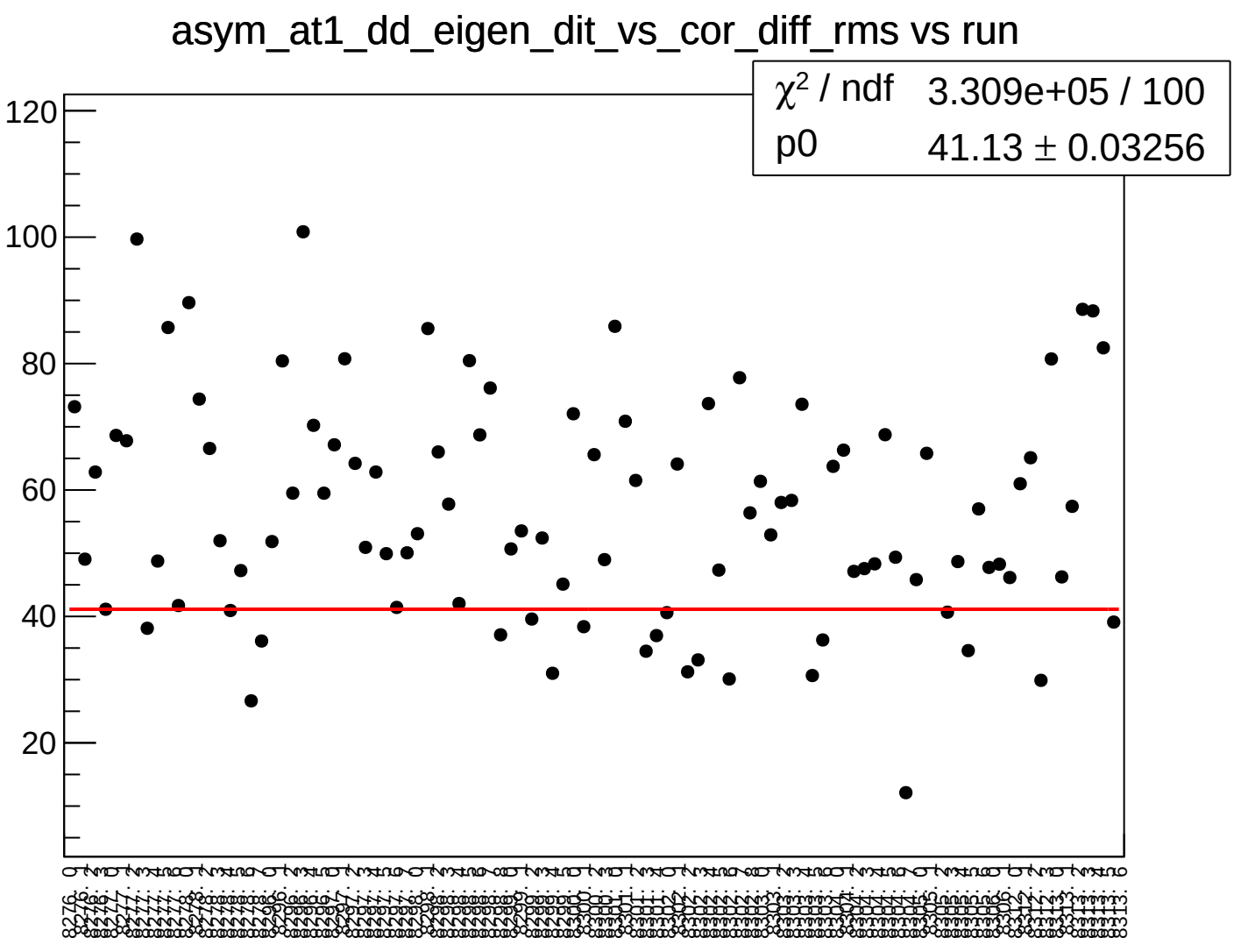

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 3.309e+05 / 100
p0 41.13 ± 0.03256
120
100
80
60
40
20

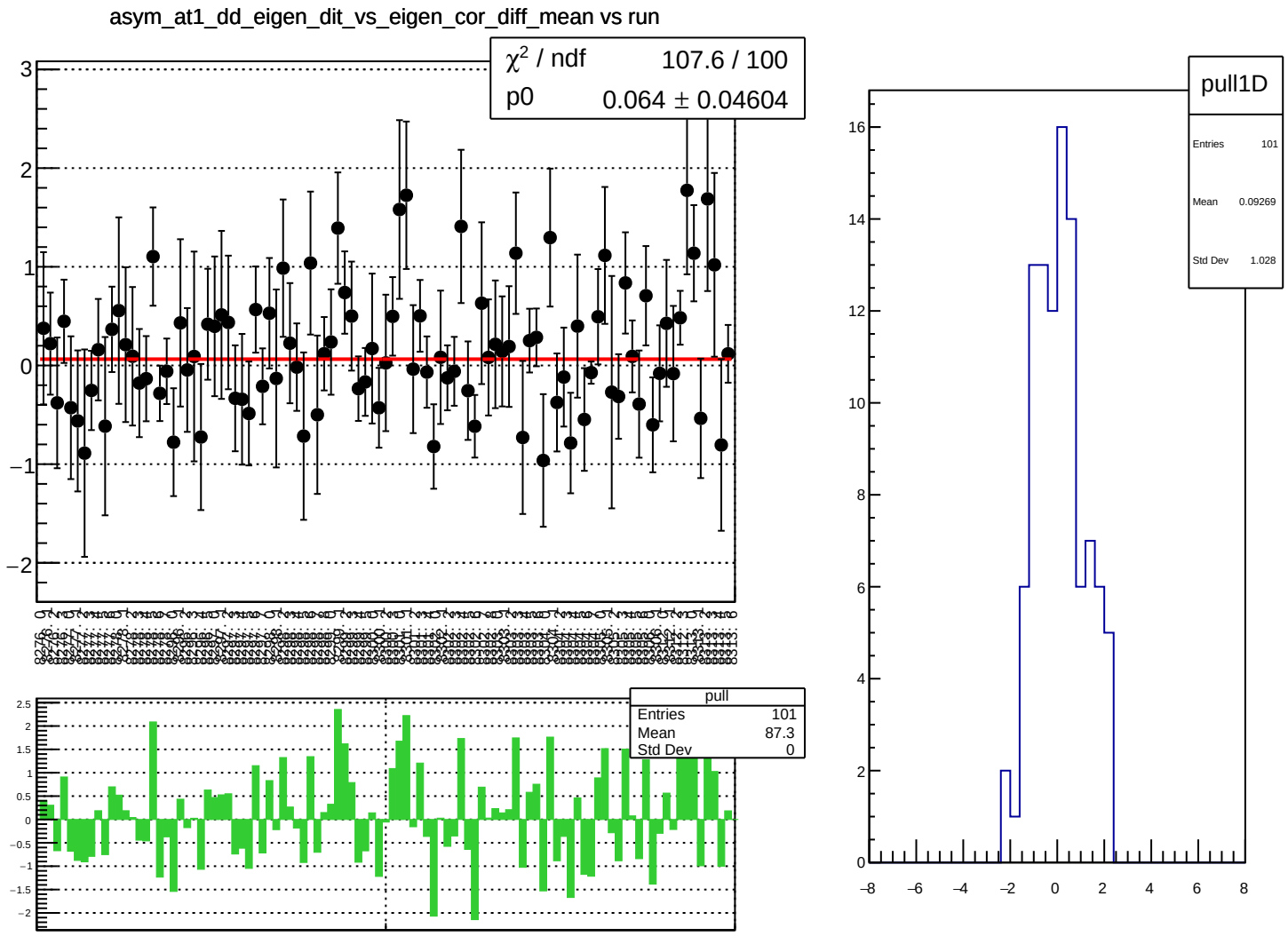

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 105.6 / 100
p0 1.304e−06 ± 1.63e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 101
Mean −373.1
Std Dev 0
4
3
2
1
0
−1
−2

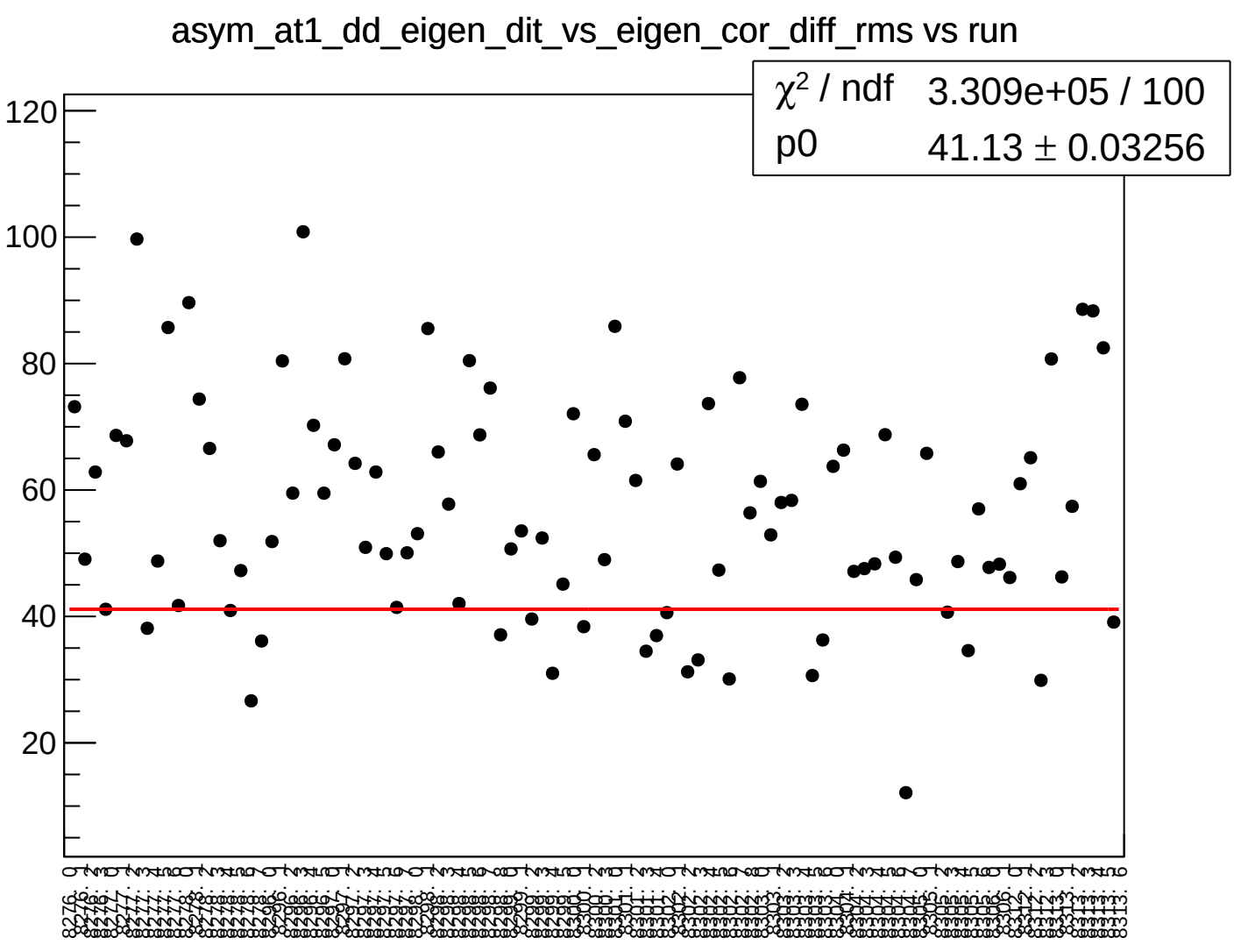

pull1D
Entries 101
Mean −0.008795
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

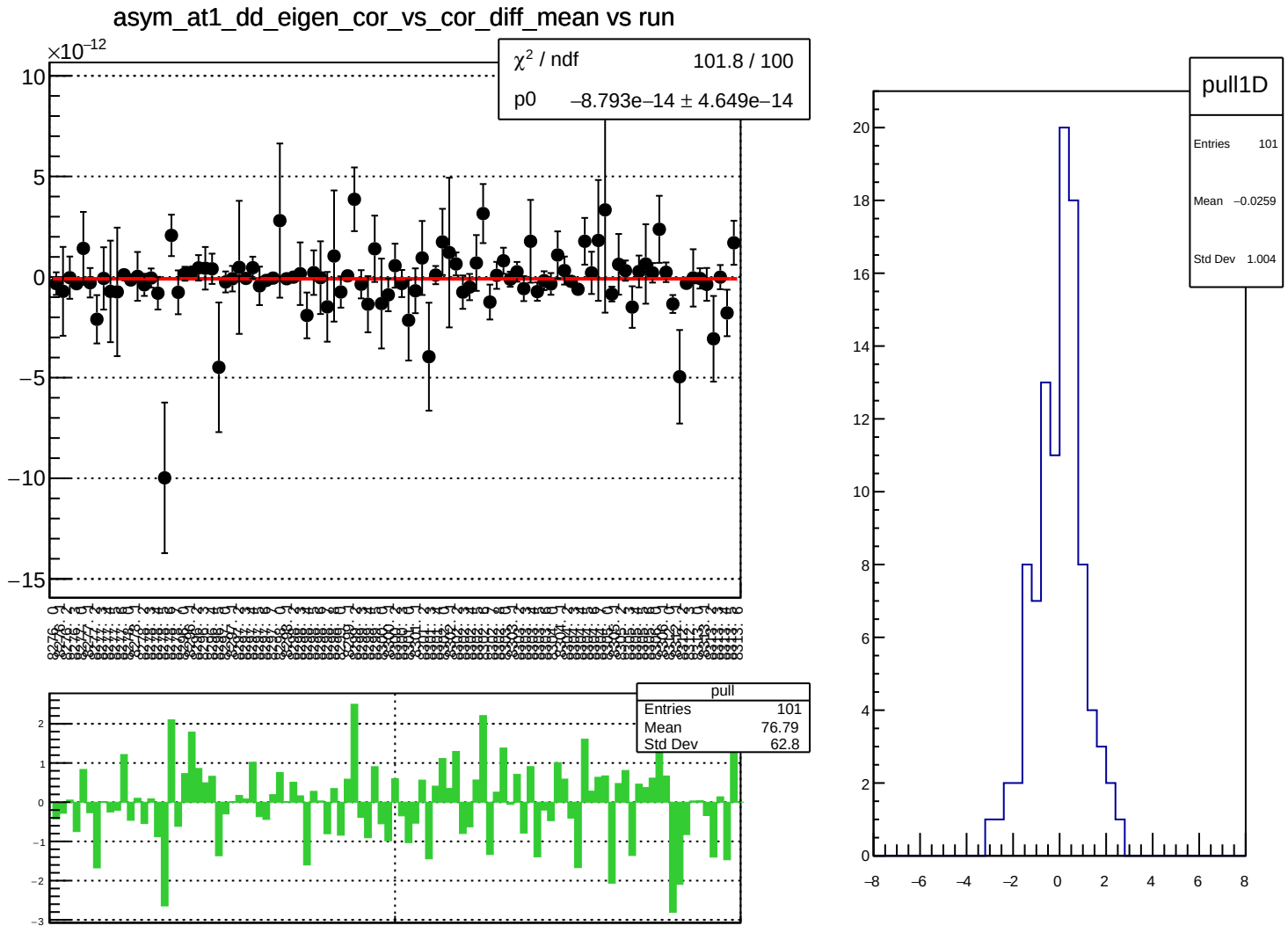

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.609e+05 / 100
p0 0.001531 ± 1.152e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

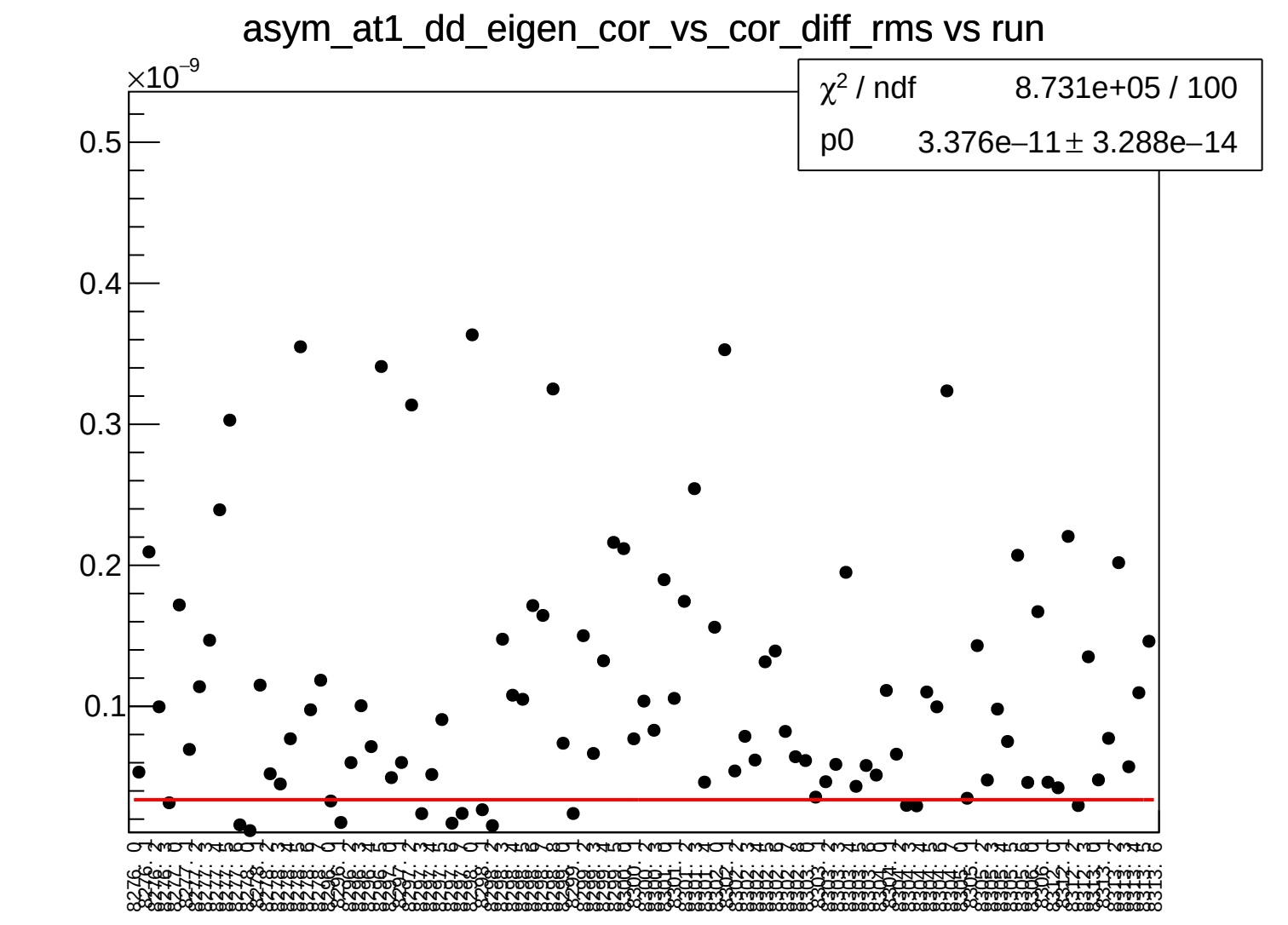

asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 107.6 / 100
p0 0.064 ± 0.04604
pull
Entries 101
Mean 87.3
Std Dev 0
pull1D
Entries 101
Mean 0.09269
Std Dev 1.028

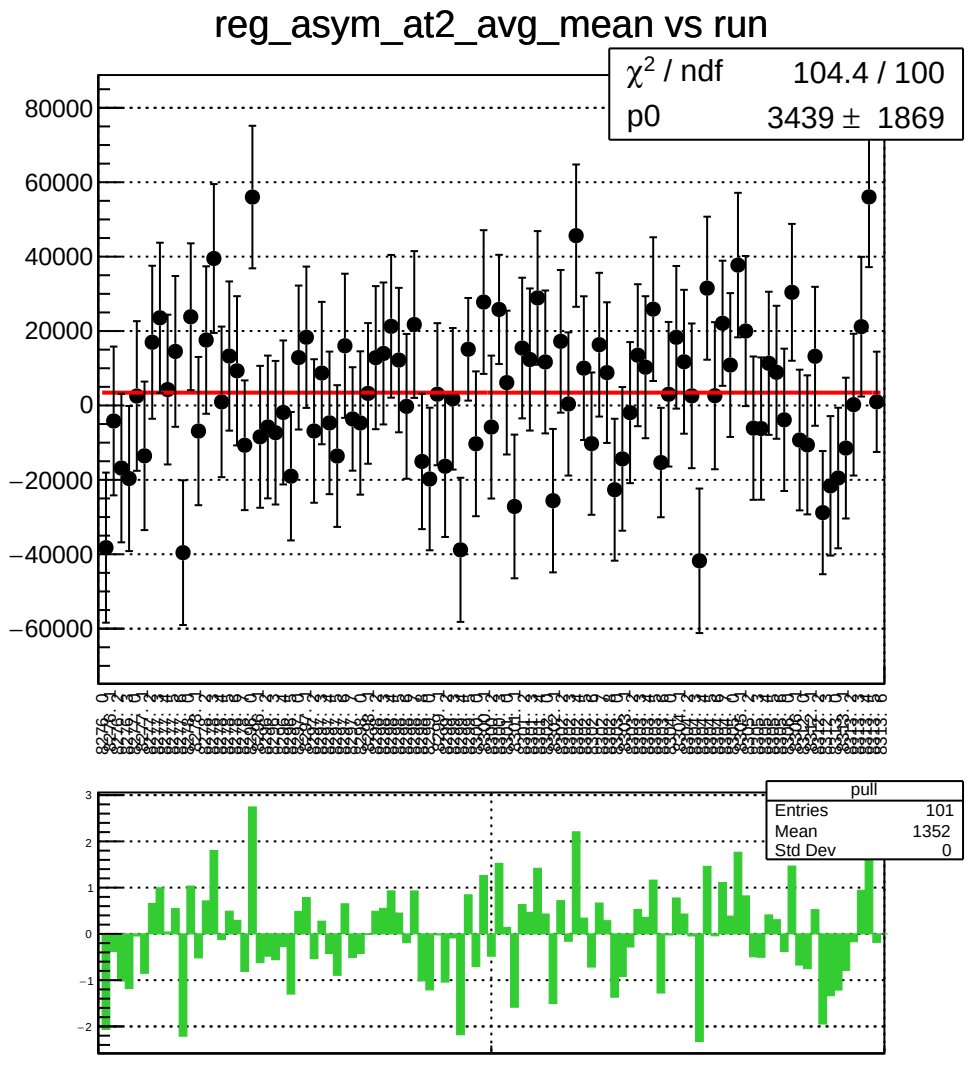

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.309e+05 / 100
p0 41.13 ± 0.03256
120
100
80
60
40
20

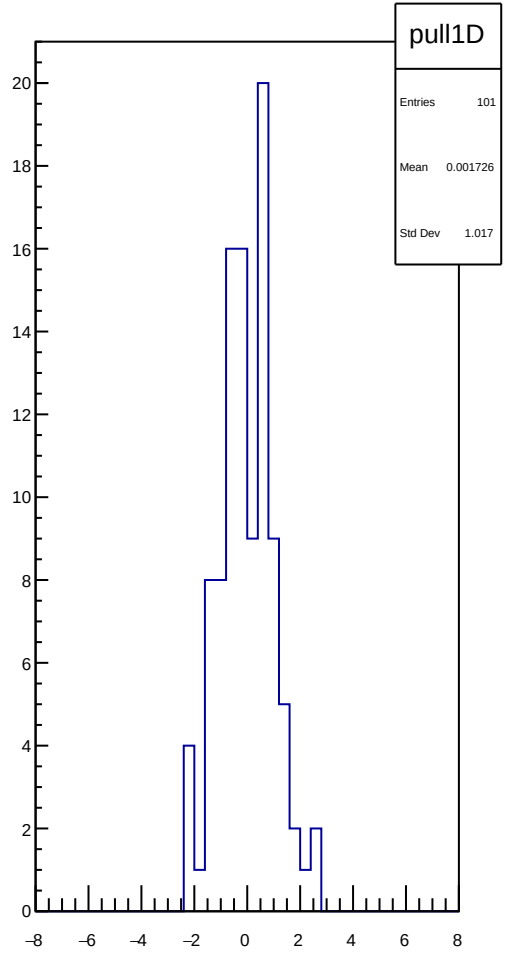

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.6 / 100
p0 0.064 ± 0.04604
pull
Entries 101
Mean 87.3
Std Dev 0
pull1D
Entries 101
Mean 0.09269
Std Dev 1.028

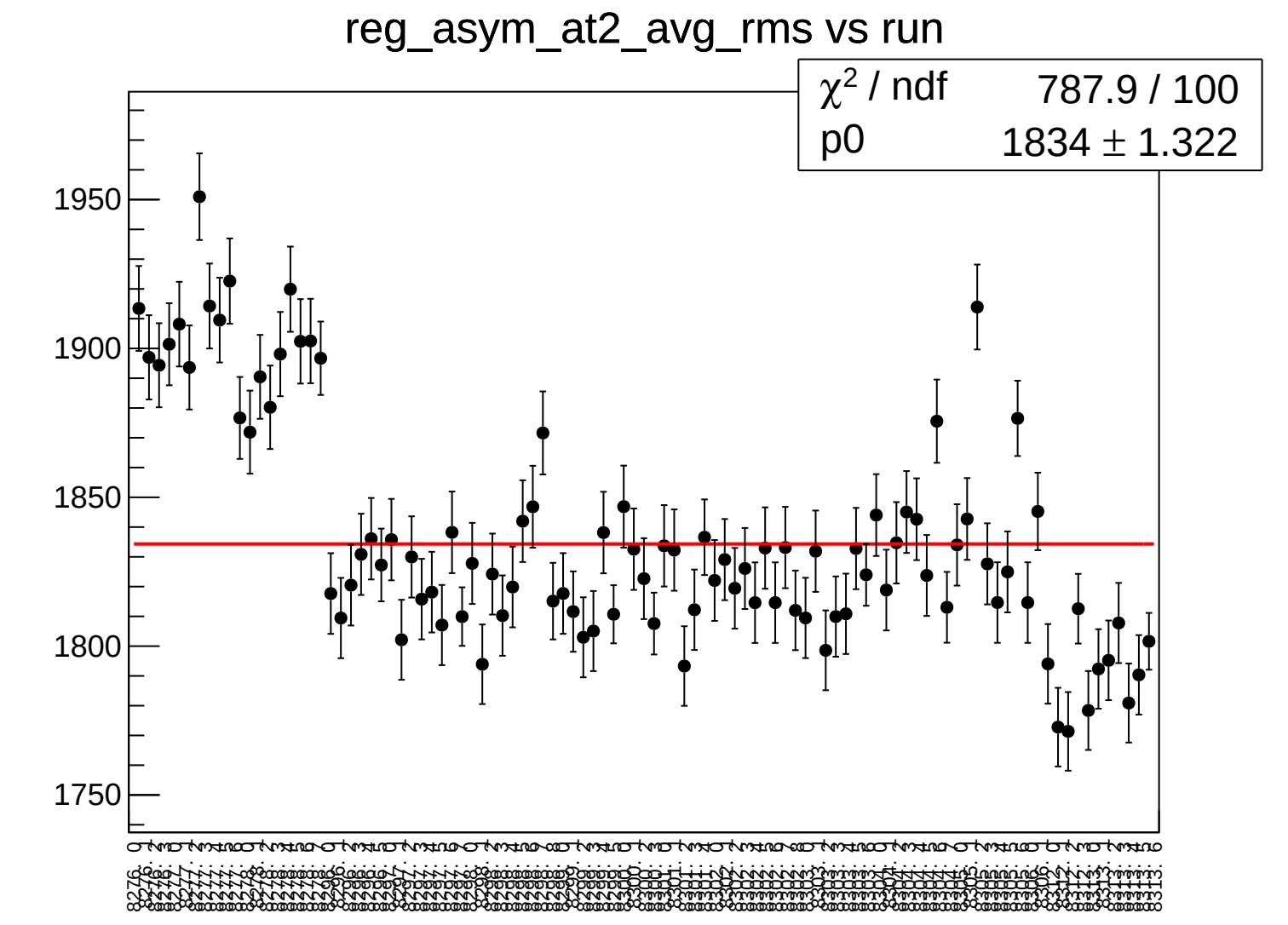

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 3.309e+05 / 100
p0 41.13 ± 0.03256
120
100
80
60
40
20

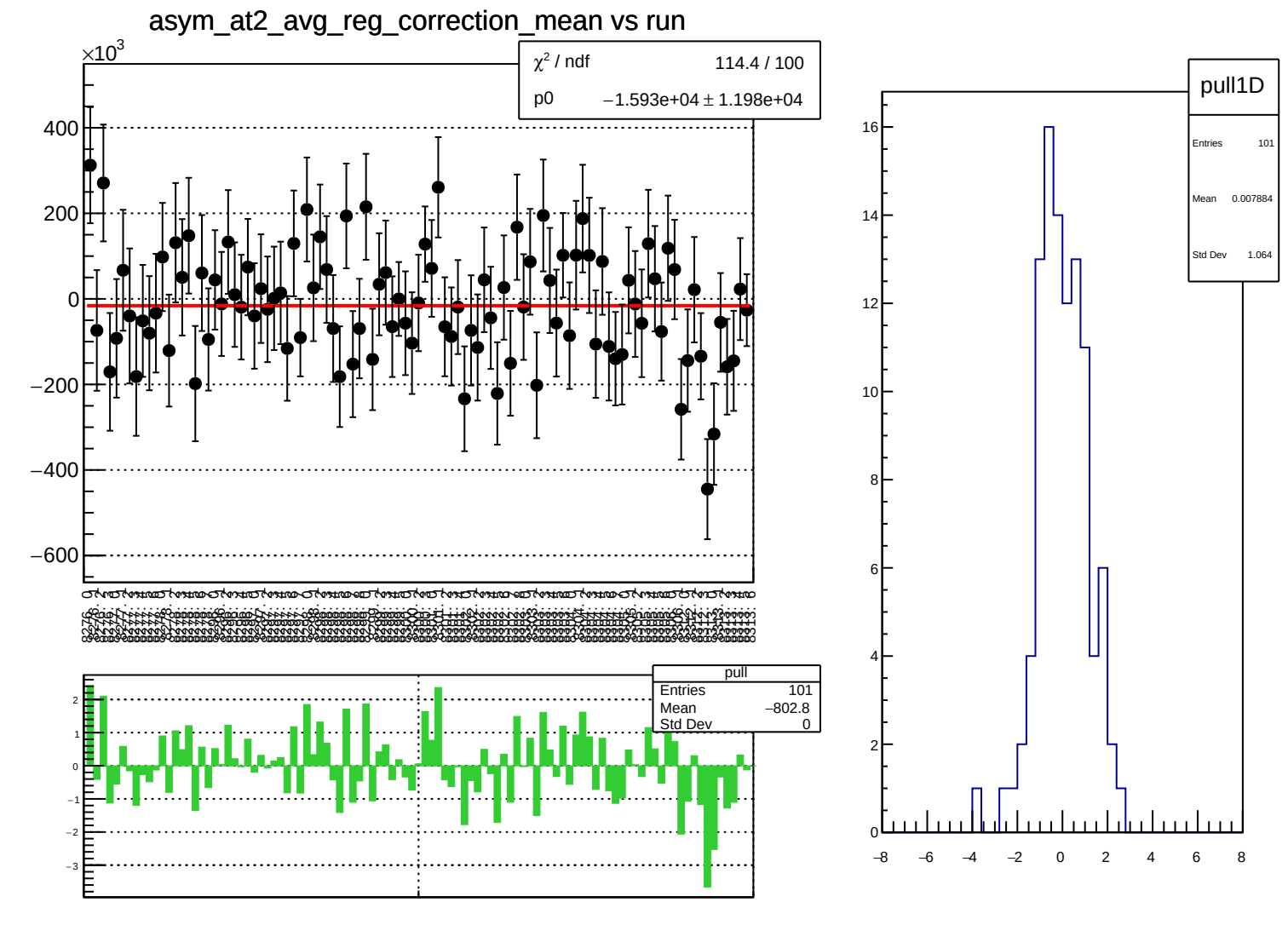

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 101.8 / 100
p0 −8.793e−14 ± 4.649e−14
pull
Entries 101
Mean 76.79
Std Dev 62.8
pull1D
Entries 101
Mean −0.0259
Std Dev 1.004

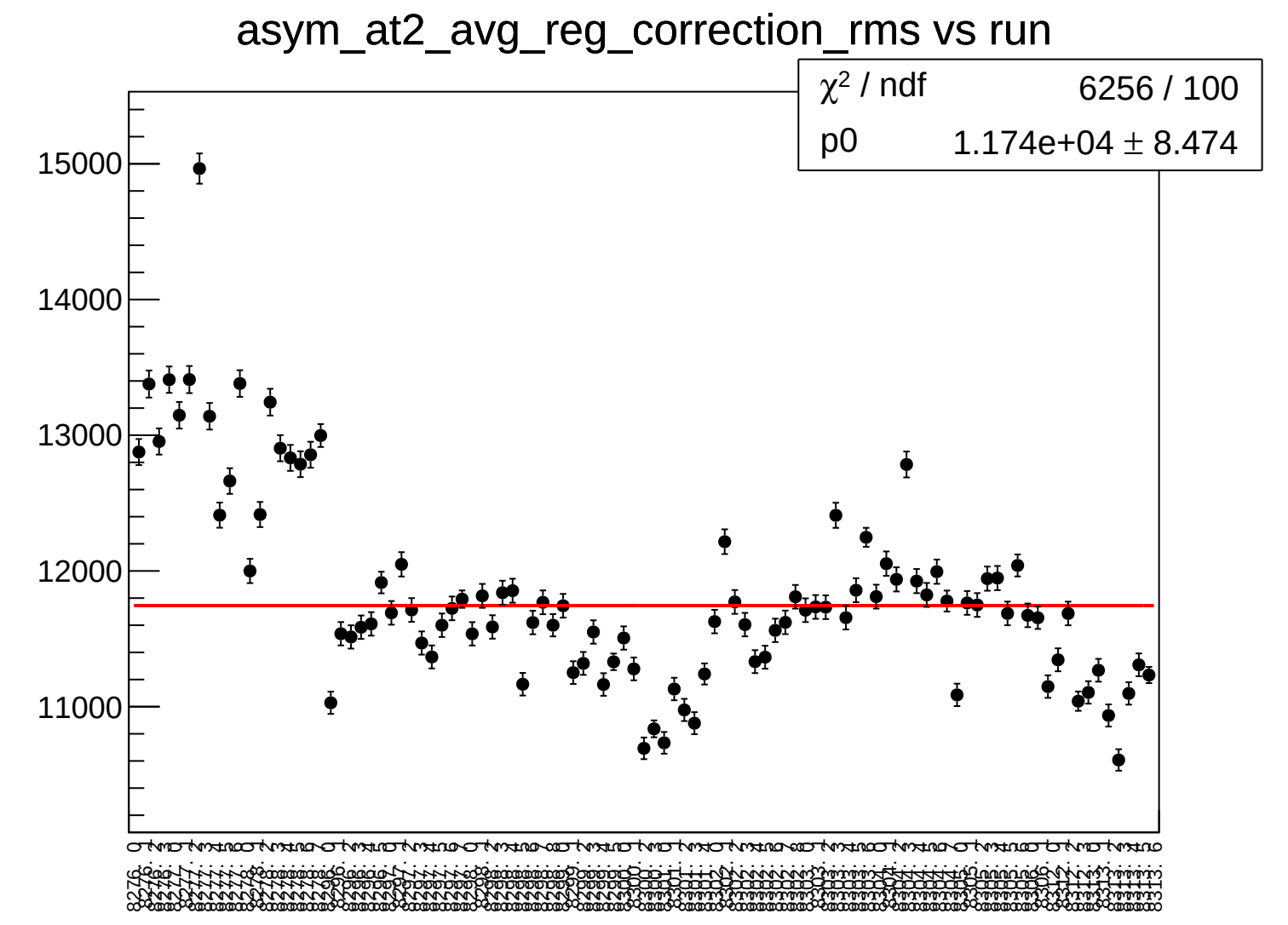

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.731e+05 / 100
p0 3.376e−11 ± 3.288e−14
0.5
0.4
0.3
0.2
0.1

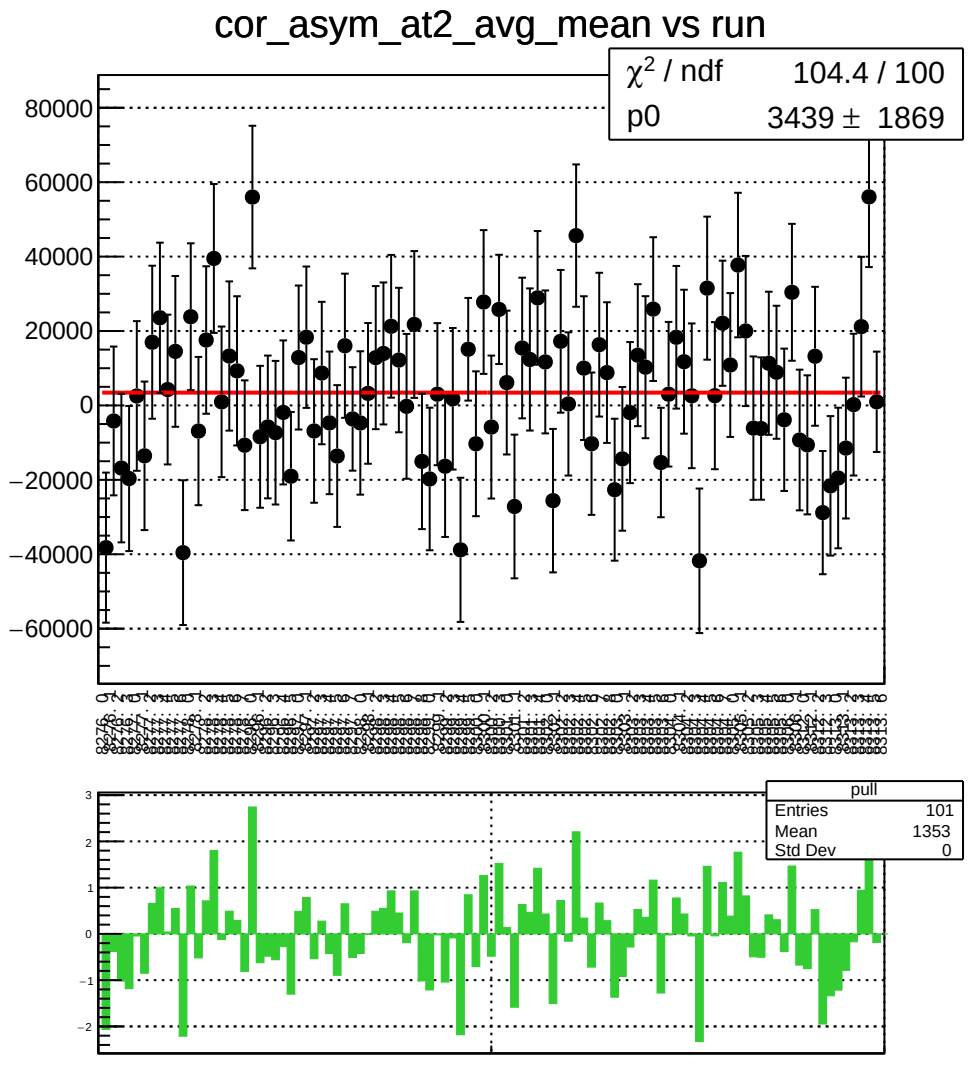

reg_asym_at2_avg_mean vs run
χ² / ndf 104.4 / 100
p0 3439 ± 1869
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean 1352
Std Dev 0
3
2
1
0
−1
−2

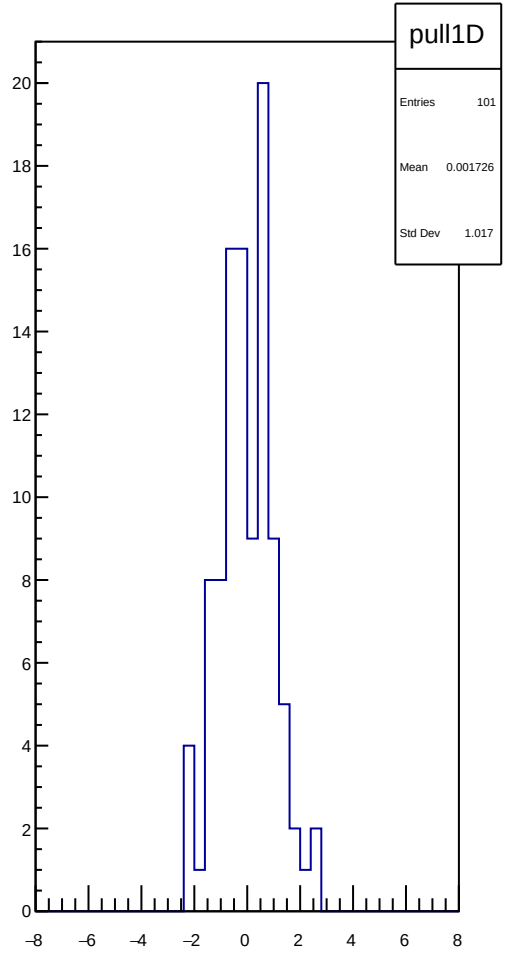

pull1D
Entries 101
Mean 0.001726
Std Dev 1.017
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

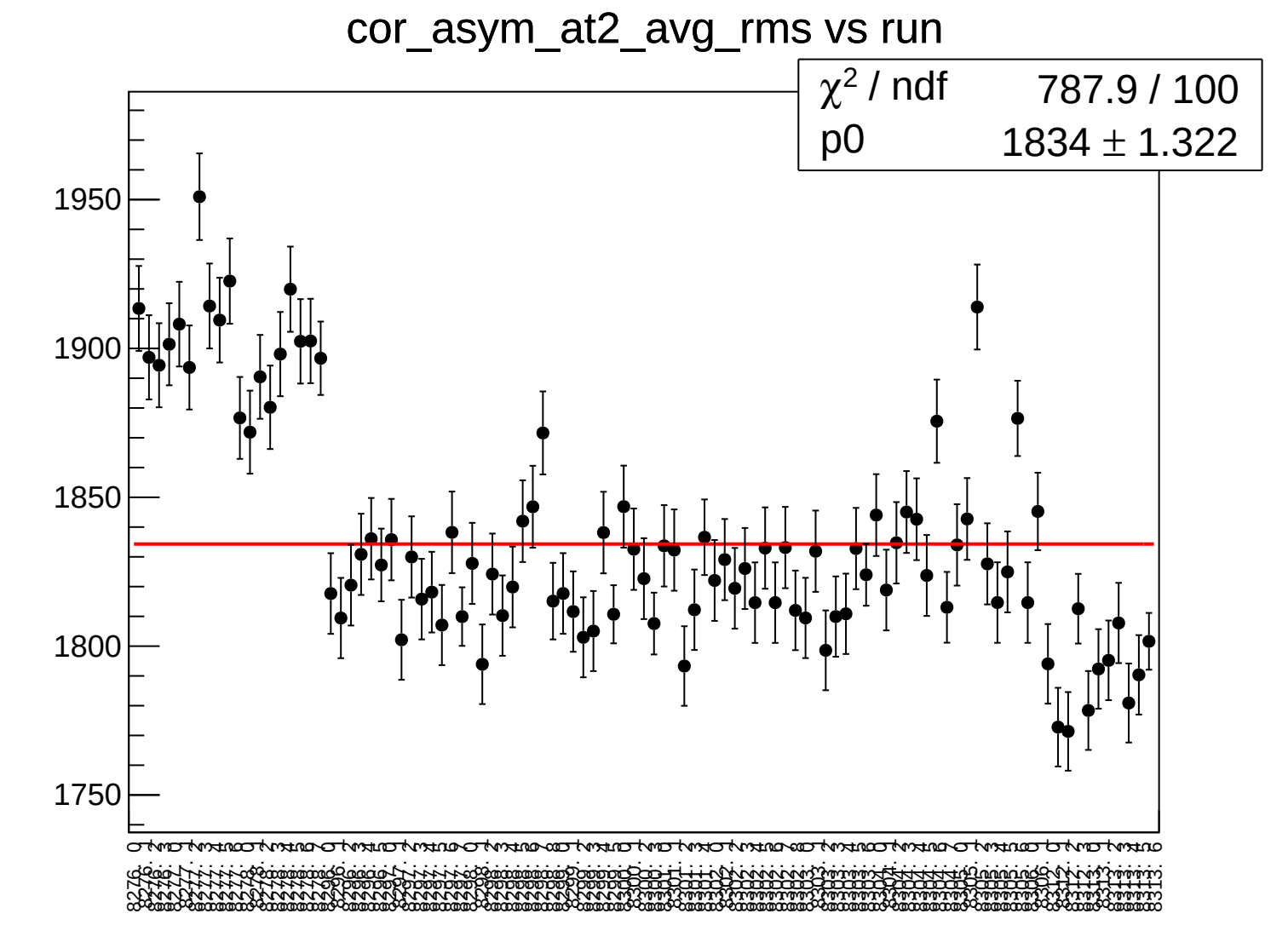

reg_asym_at2_avg_rms vs run
χ^2 / ndf 787.9 / 100
p0 1834 ± 1.322
1950
1900
1850
1800
1750

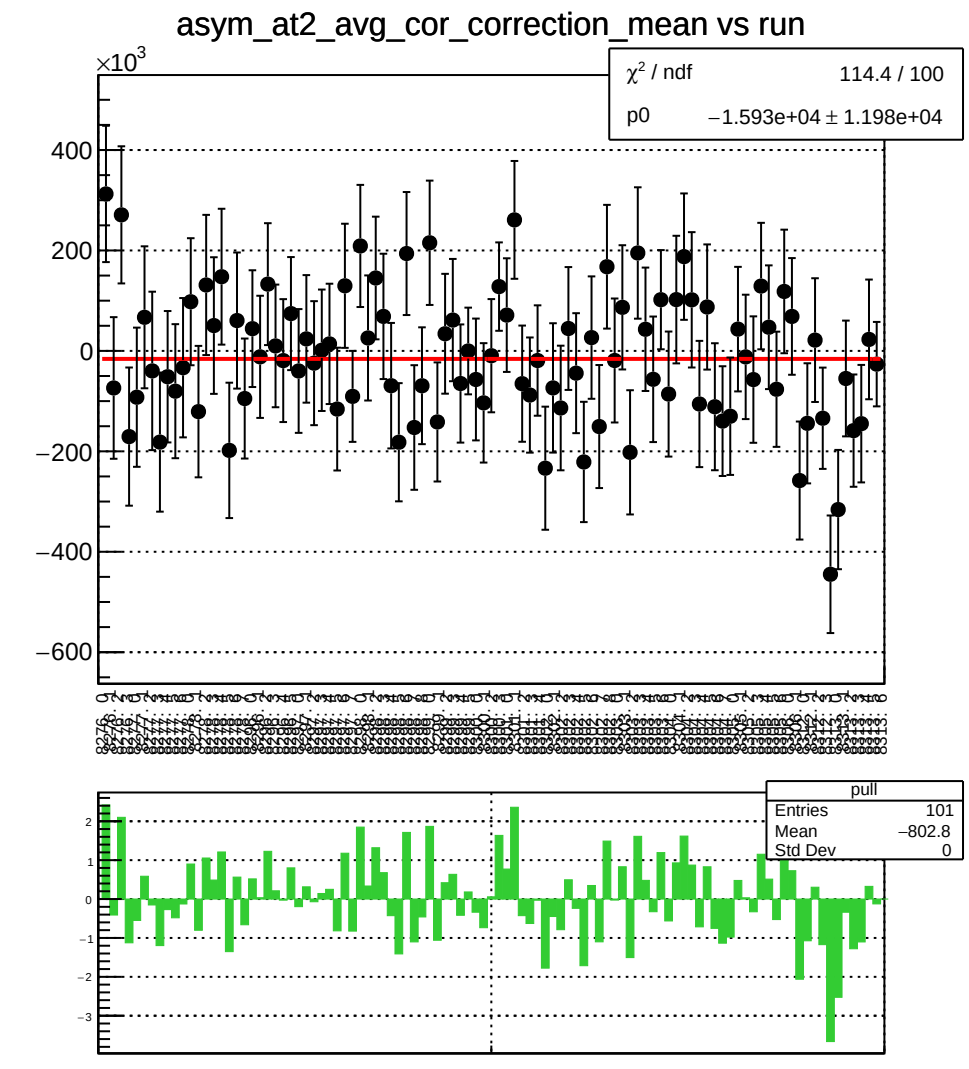

asym_at2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 114.4 / 100
p0 −1.593e+04 ± 1.198e+04
400
200
0
−200
−400
−600
pull
Entries 101
Mean −802.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.007884
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

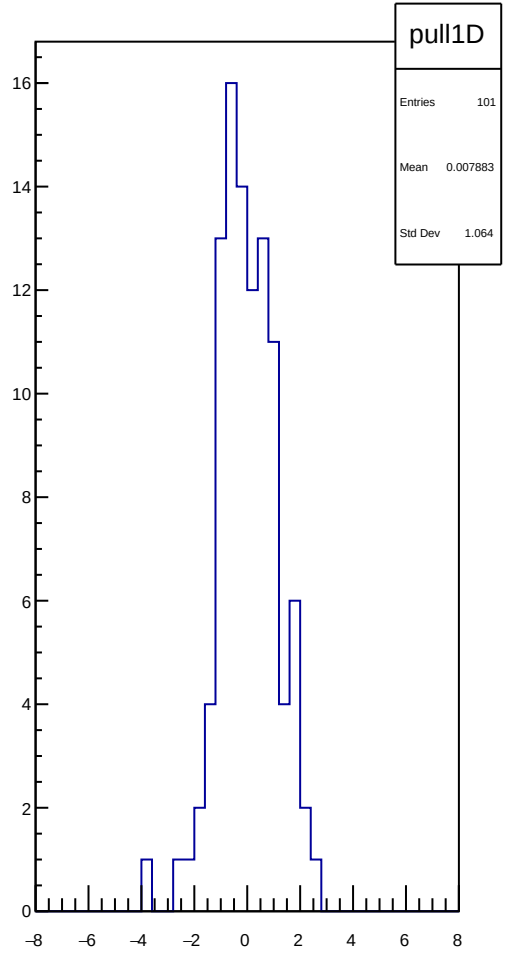

asym_at2_avg_reg_correction_rms vs run
χ² / ndf 6256 / 100
p0 1.174e+04 ± 8.474
15000
14000
13000
12000
11000

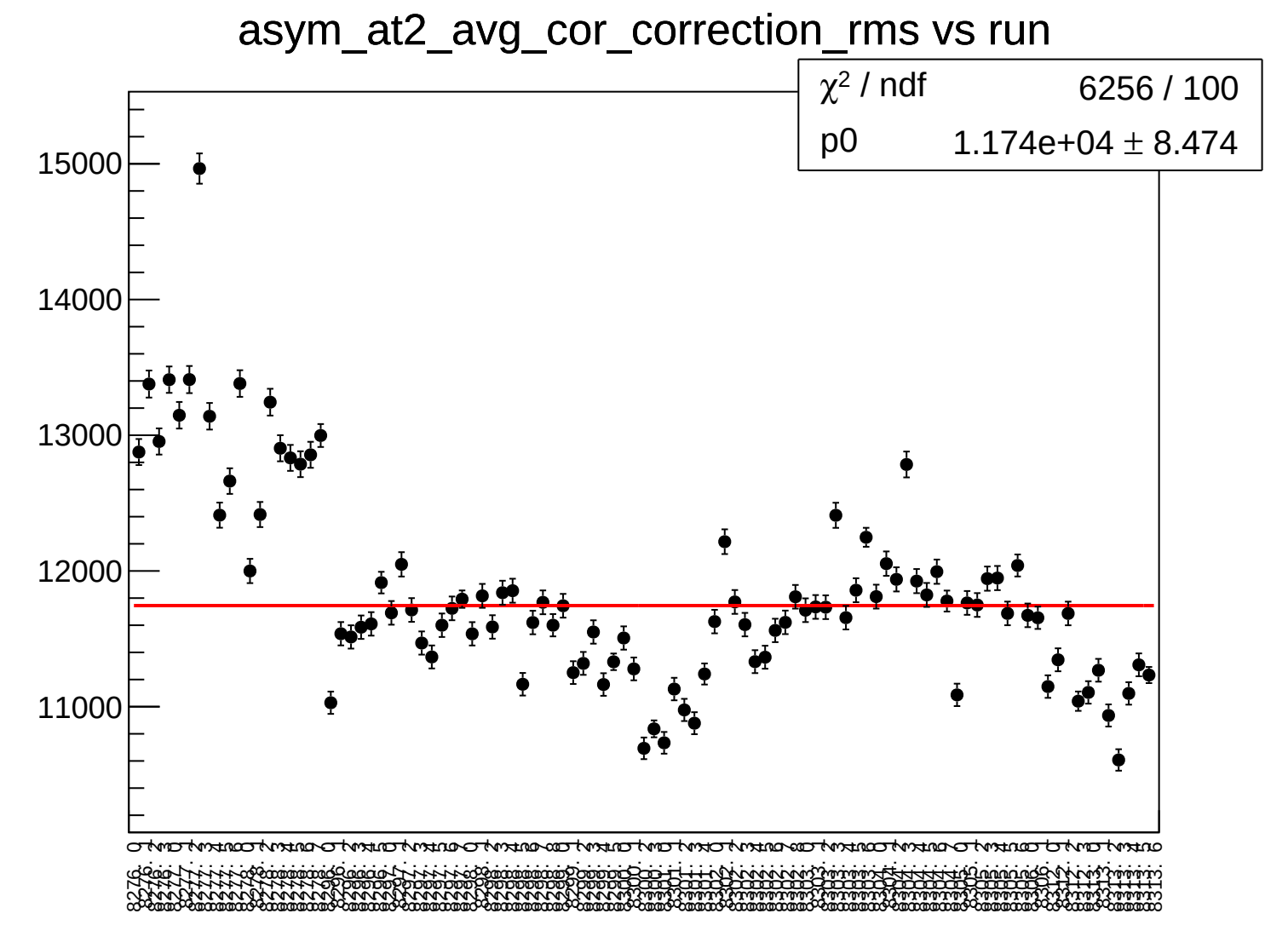

cor_asym_at2_avg_mean vs run
χ² / ndf 104.4 / 100
p0 3439 ± 1869
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean 1353
Std Dev 0
3
2
1
0
−1
−2

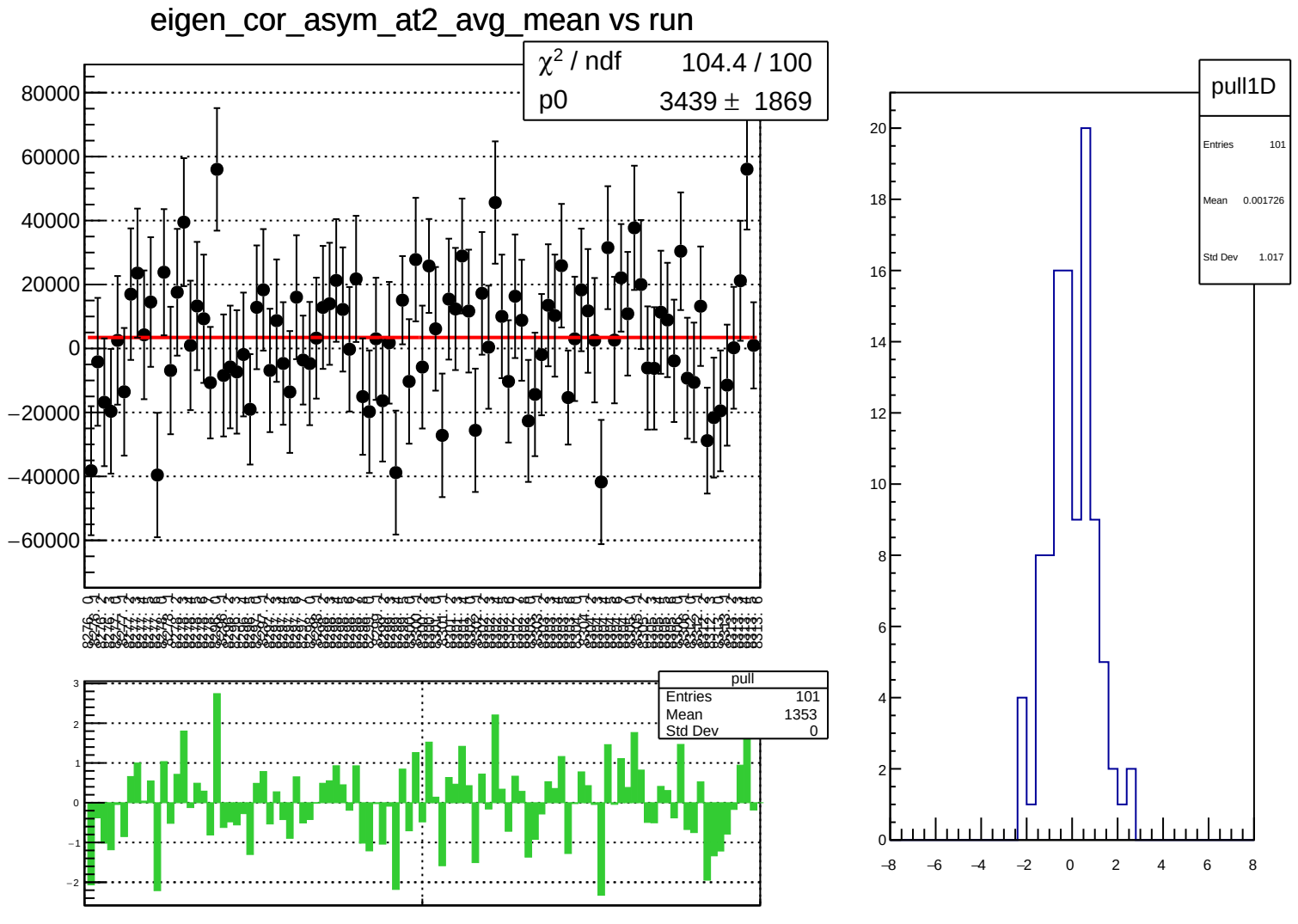

pull1D
Entries 101
Mean 0.001726
Std Dev 1.017
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

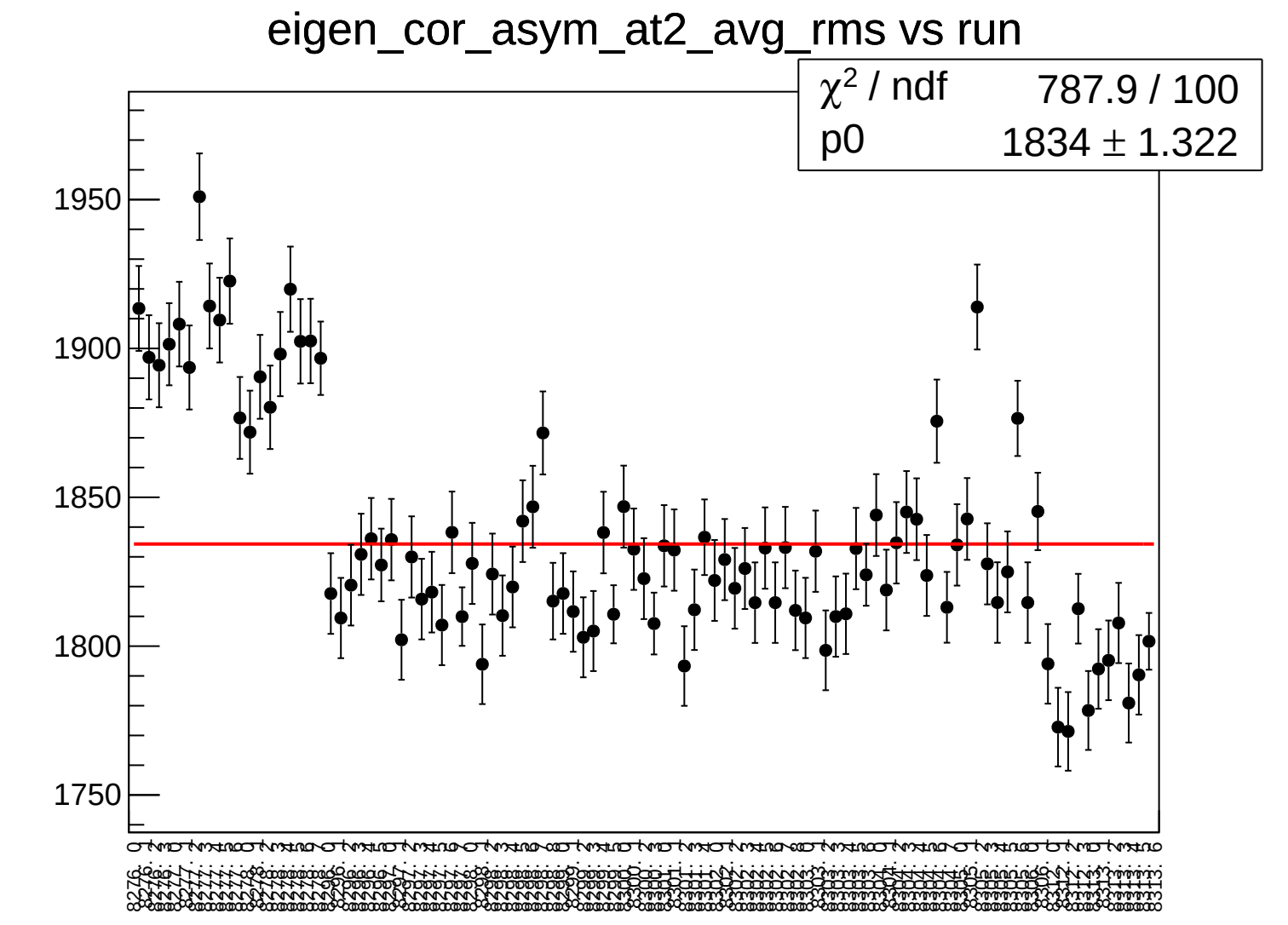

cor_asym_at2_avg_rms vs run
χ^2 / ndf 787.9 / 100
p0 1834 ± 1.322
1950
1900
1850
1800
1750

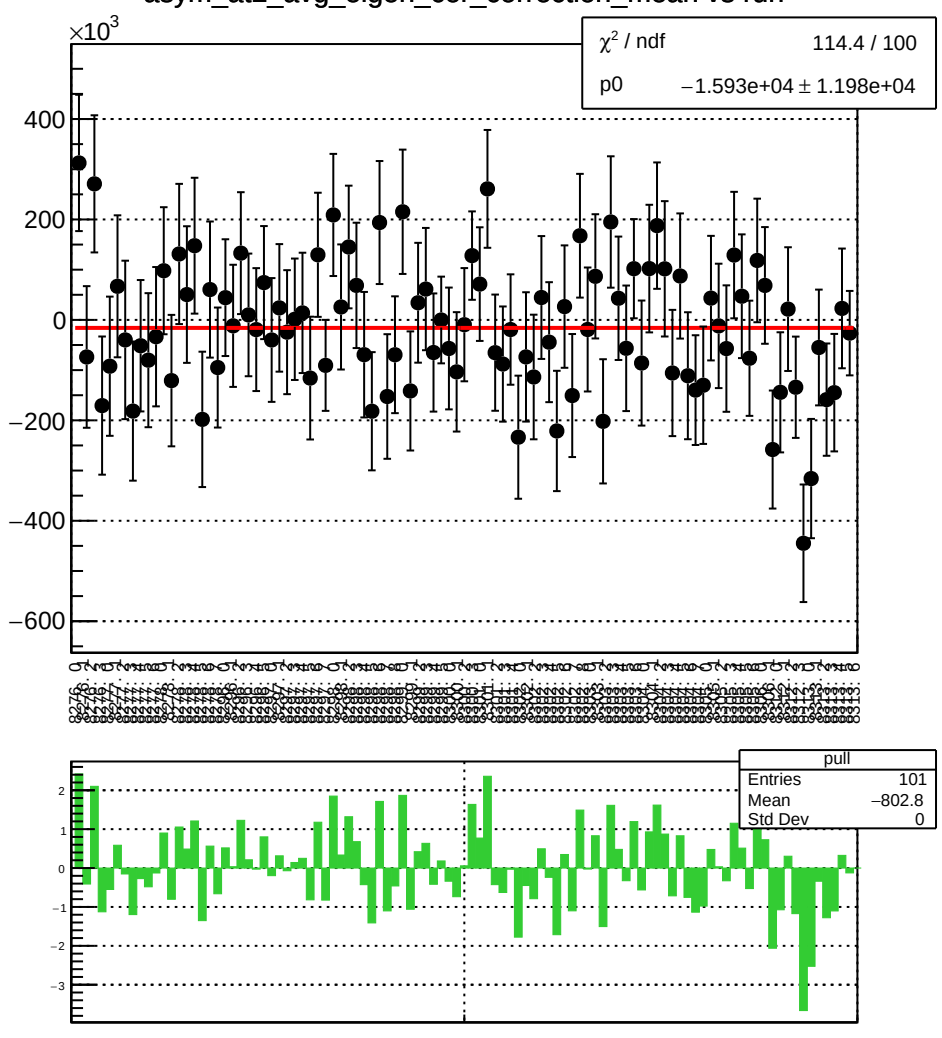

asym_at2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 114.4 / 100
p0 −1.593e+04 ± 1.198e+04
400
200
0
−200
−400
−600
pull
Entries 101
Mean −802.8
Std Dev 0
2
1
0
−1
−2
−3

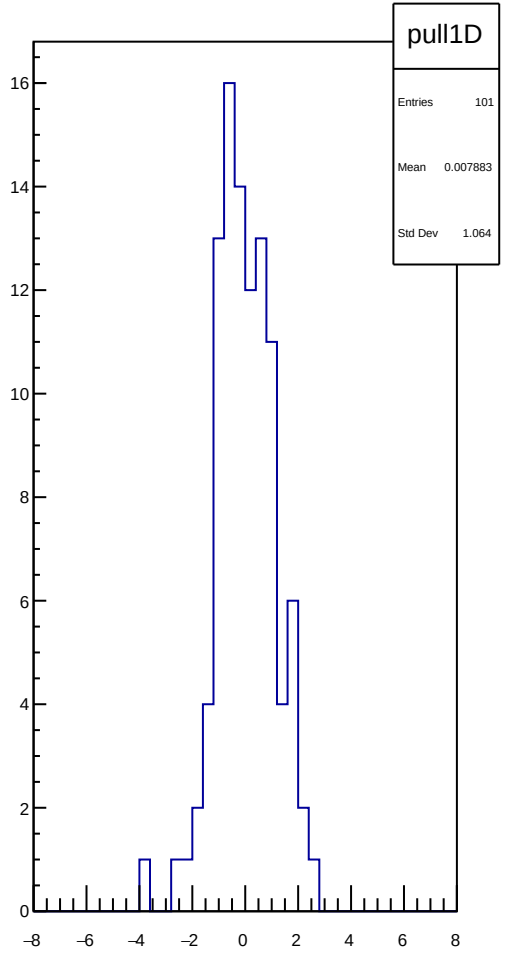

pull1D
Entries 101
Mean 0.007883
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_at2_avg_cor_correction_rms vs run
χ² / ndf 6256 / 100
p0 1.174e+04 ± 8.474
15000
14000
13000
12000
11000


eigen_cor_asym_at2_avg_mean vs run
χ² / ndf 104.4 / 100
p0 3439 ± 1869
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean 1353
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.001726
Std Dev 1.017
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_at2_avg_rms vs run
χ² / ndf 787.9 / 100
p0 1834 ± 1.322
1950
1900
1850
1800
1750


asym_at2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 114.4 / 100
p0 −1.593e+04 ± 1.198e+04
400
200
0
−200
−400
−600
pull
Entries 101
Mean −802.8
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 101
Mean 0.007883
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
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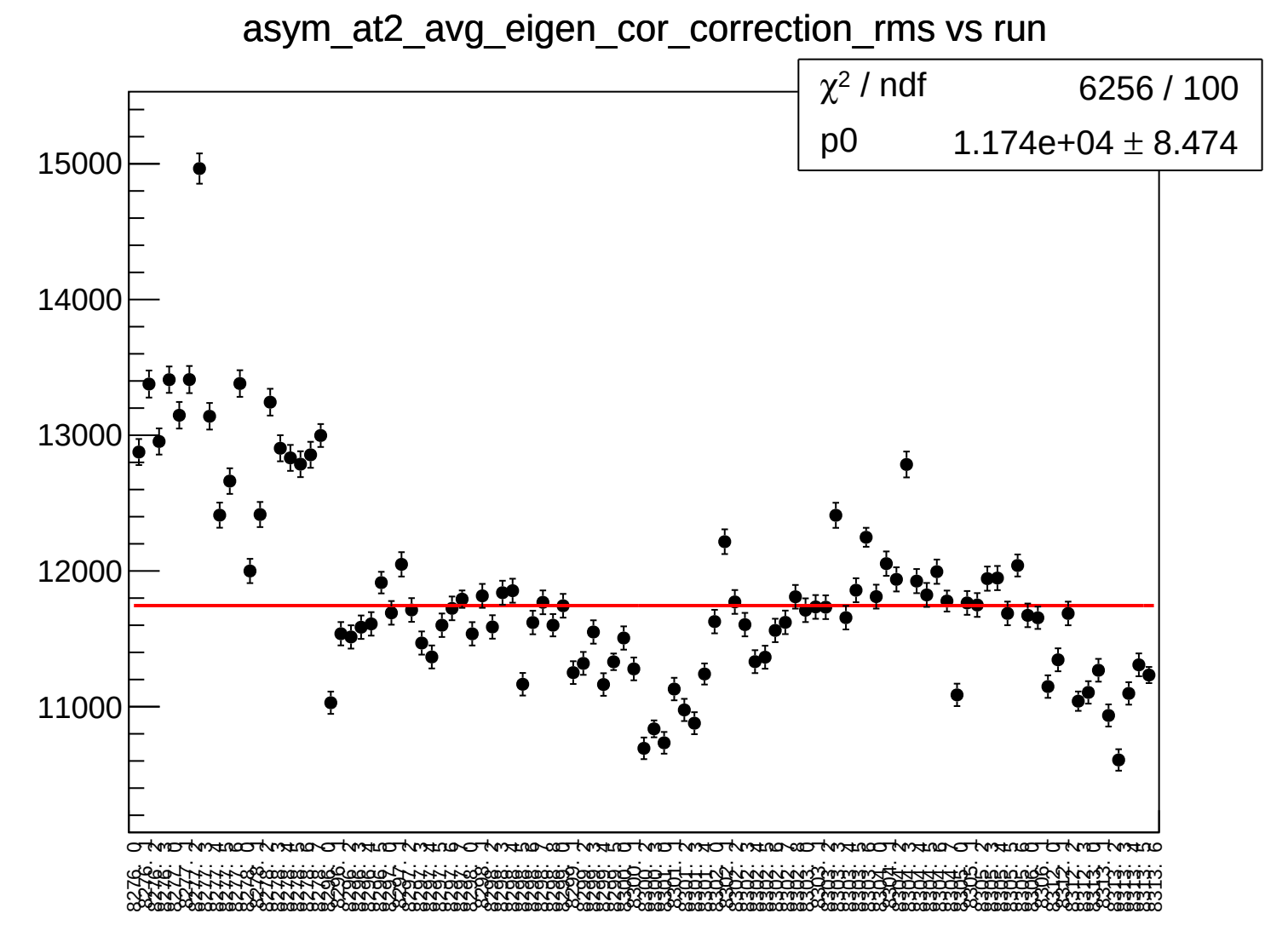
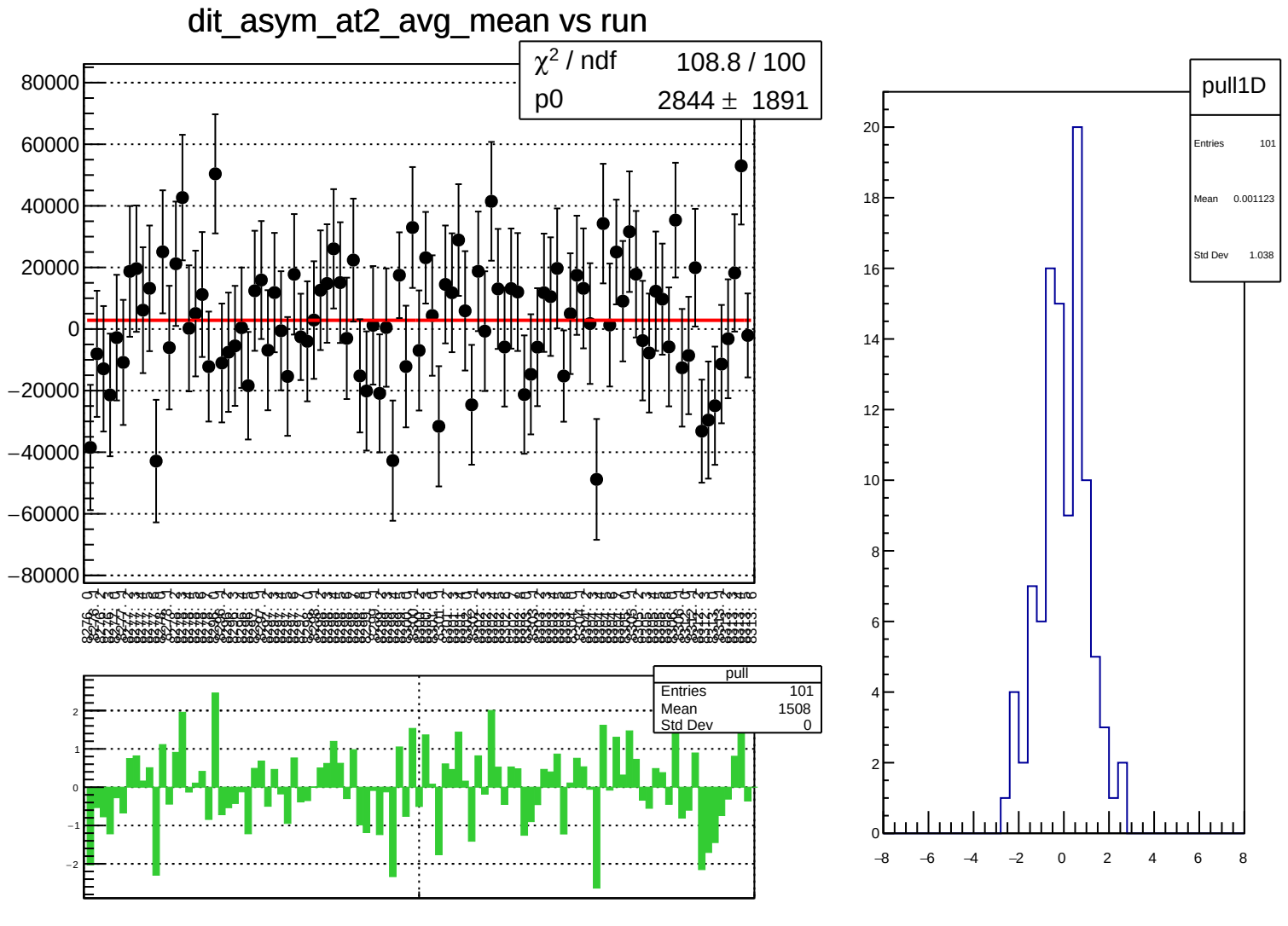
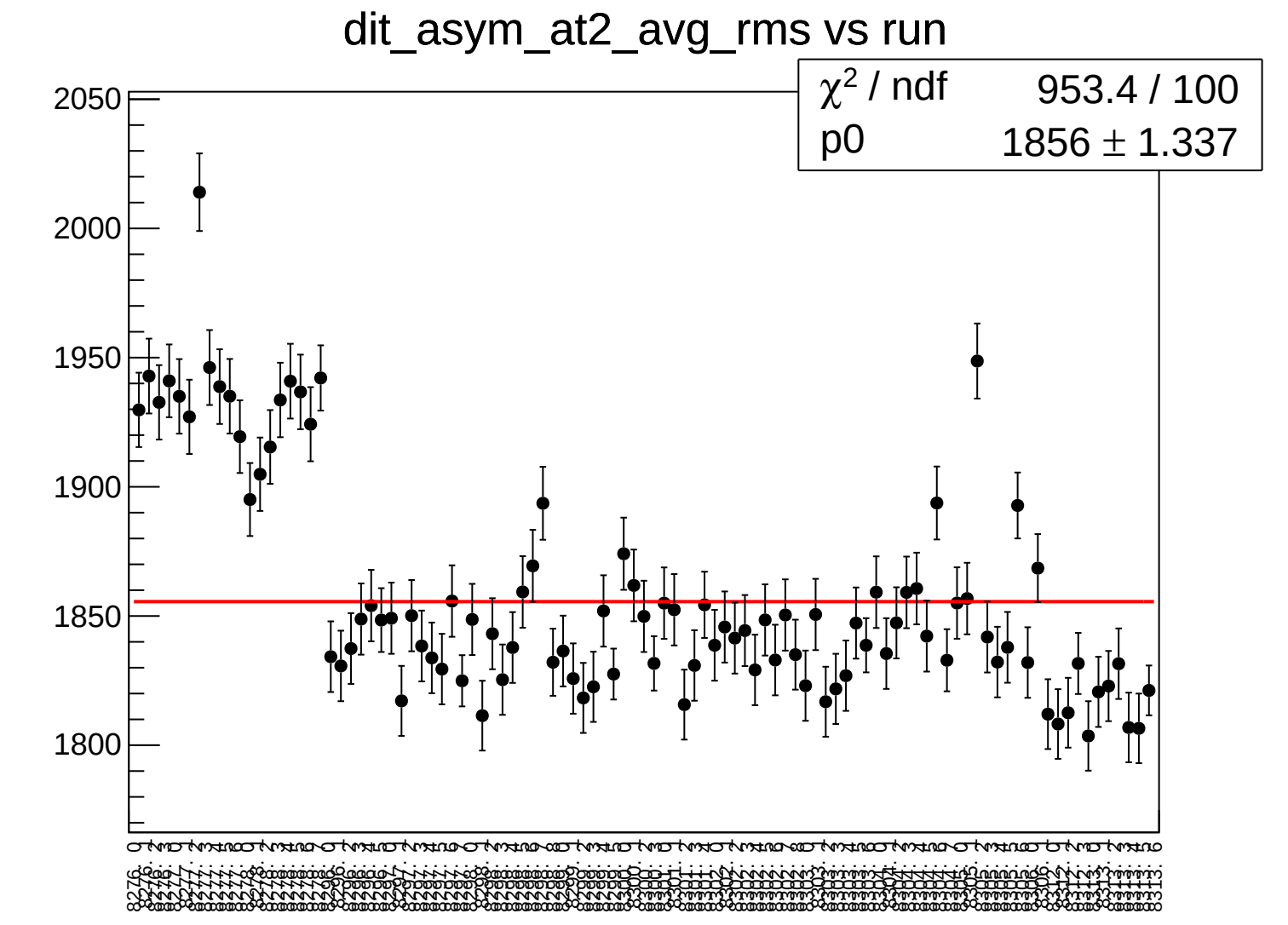
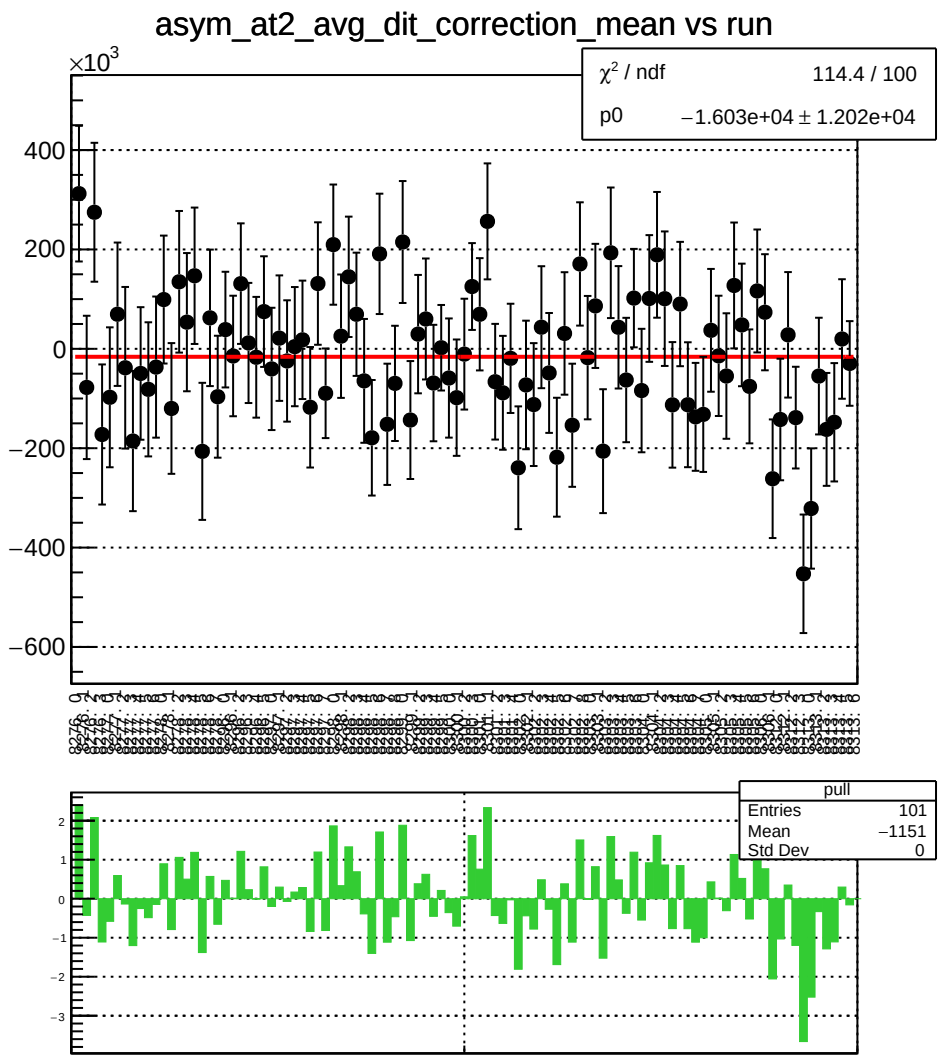
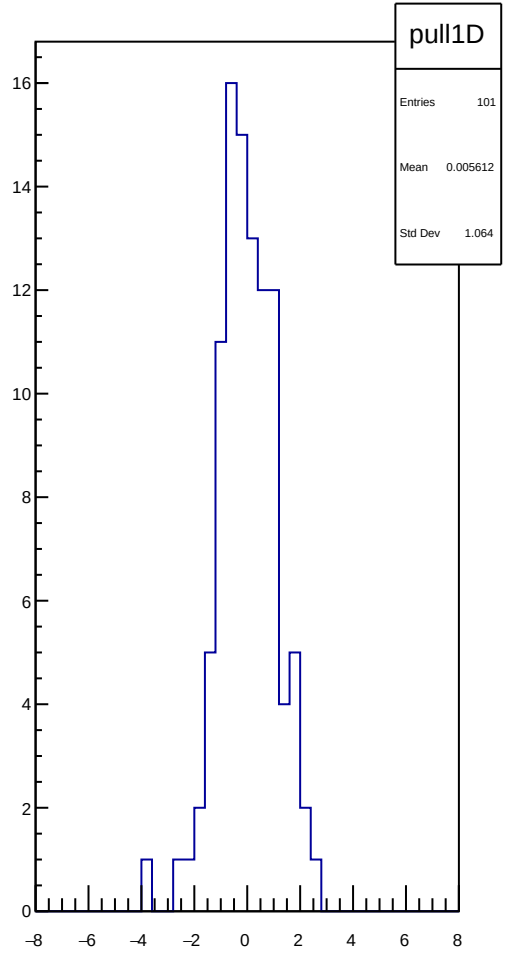
0
2
4
6
8

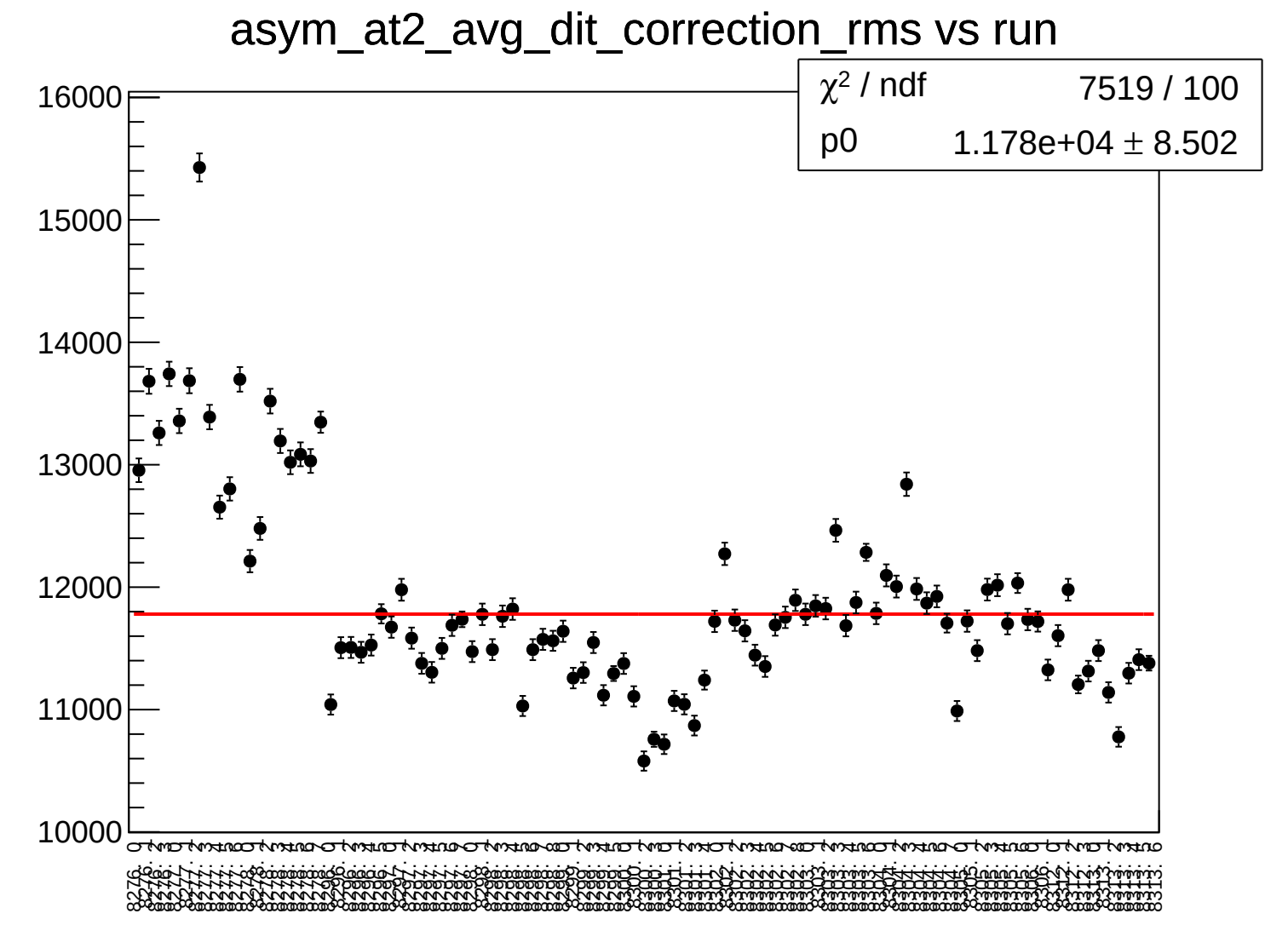

asym_at2_avg_eigen_cor_correction_rms vs run
χ² / ndf 6256 / 100
p0 1.174e+04 ± 8.474
15000
14000
13000
12000
11000

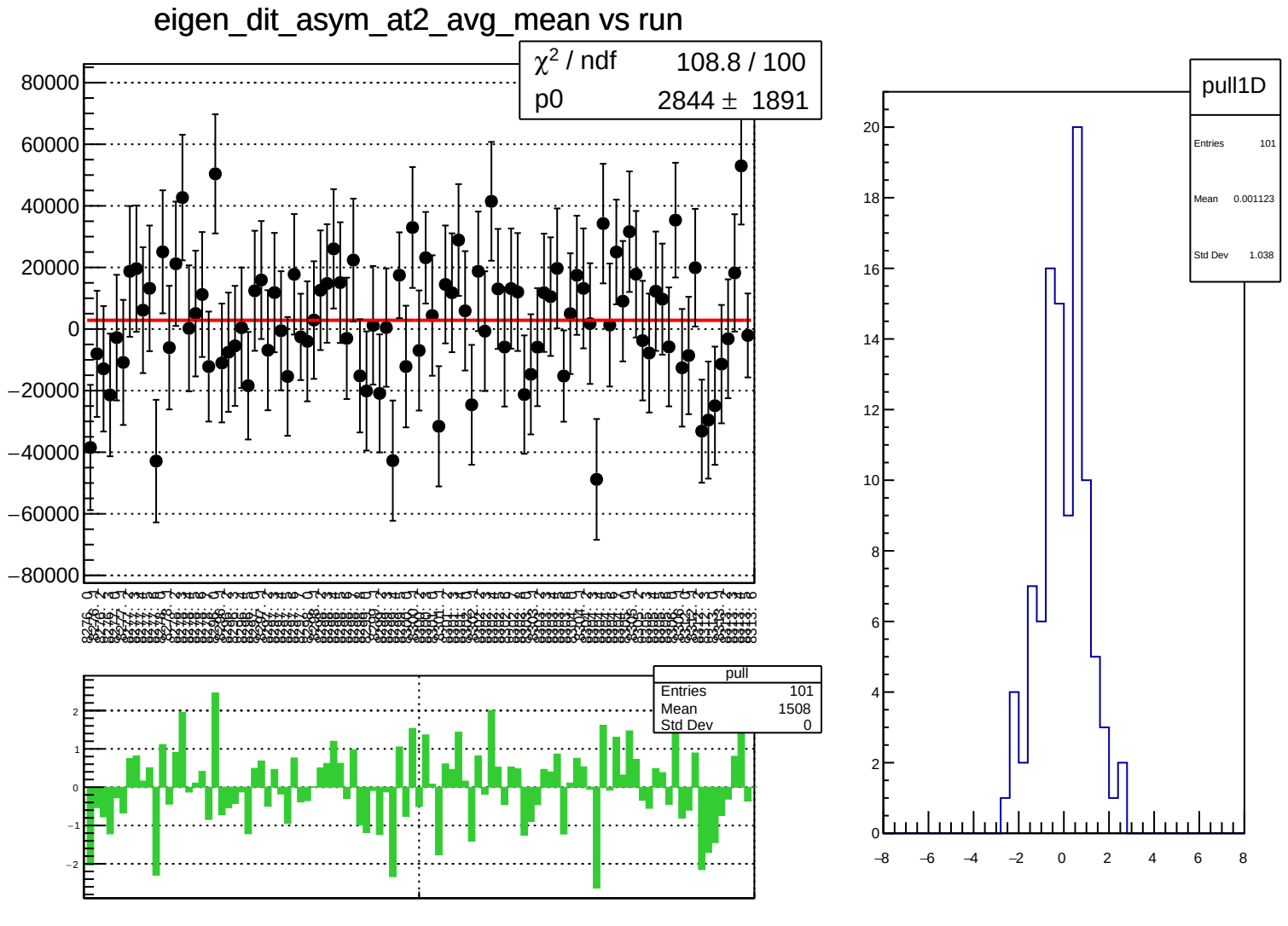

dit_asym_at2_avg_mean vs run
χ² / ndf 108.8 / 100
p0 2844 ± 1891
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 101
Mean 1508
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.001123
Std Dev 1.038
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

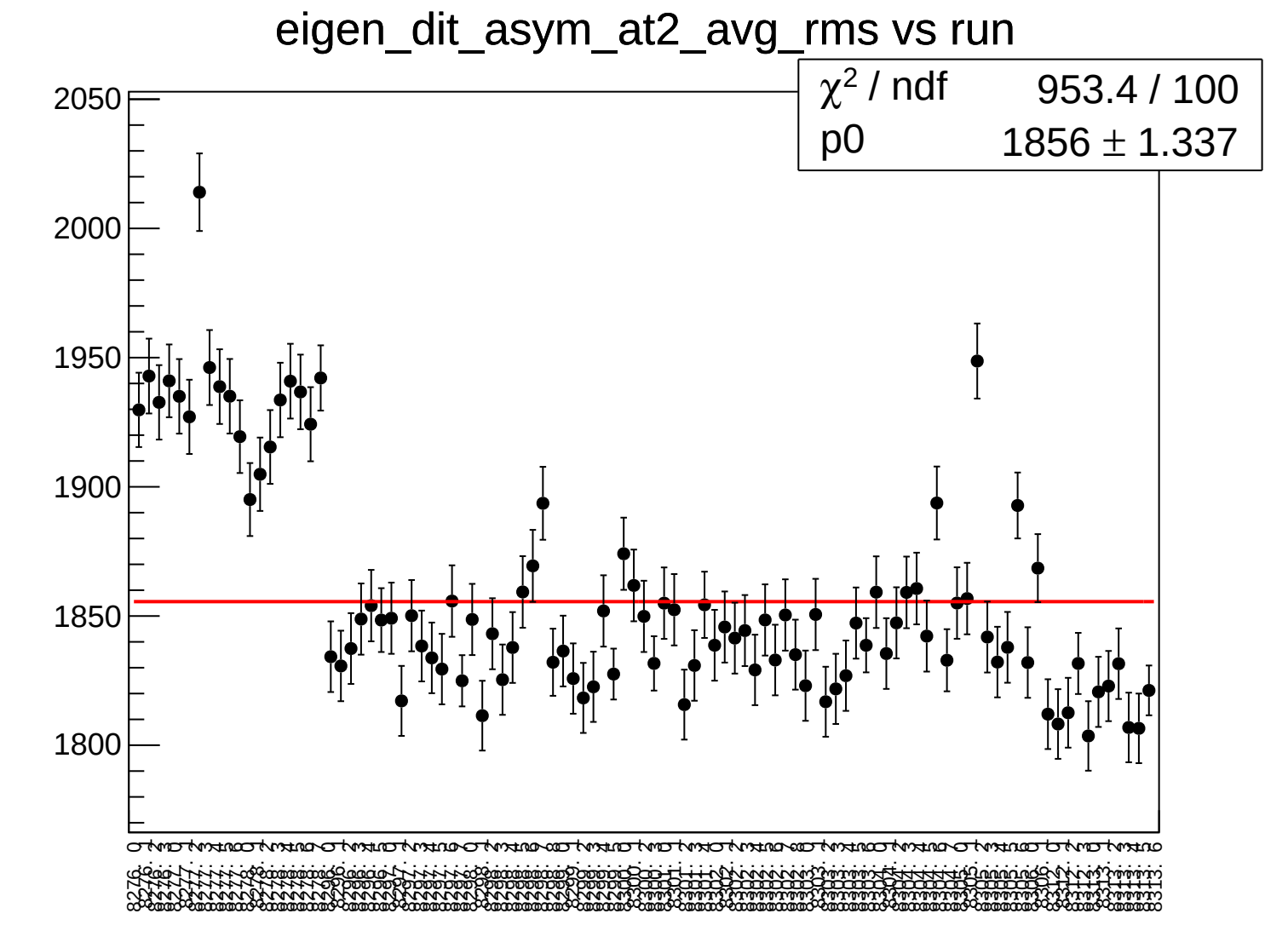

dit_asym_at2_avg_rms vs run
χ² / ndf 953.4 / 100
p0 1856 ± 1.337
2050
2000
1950
1900
1850
1800

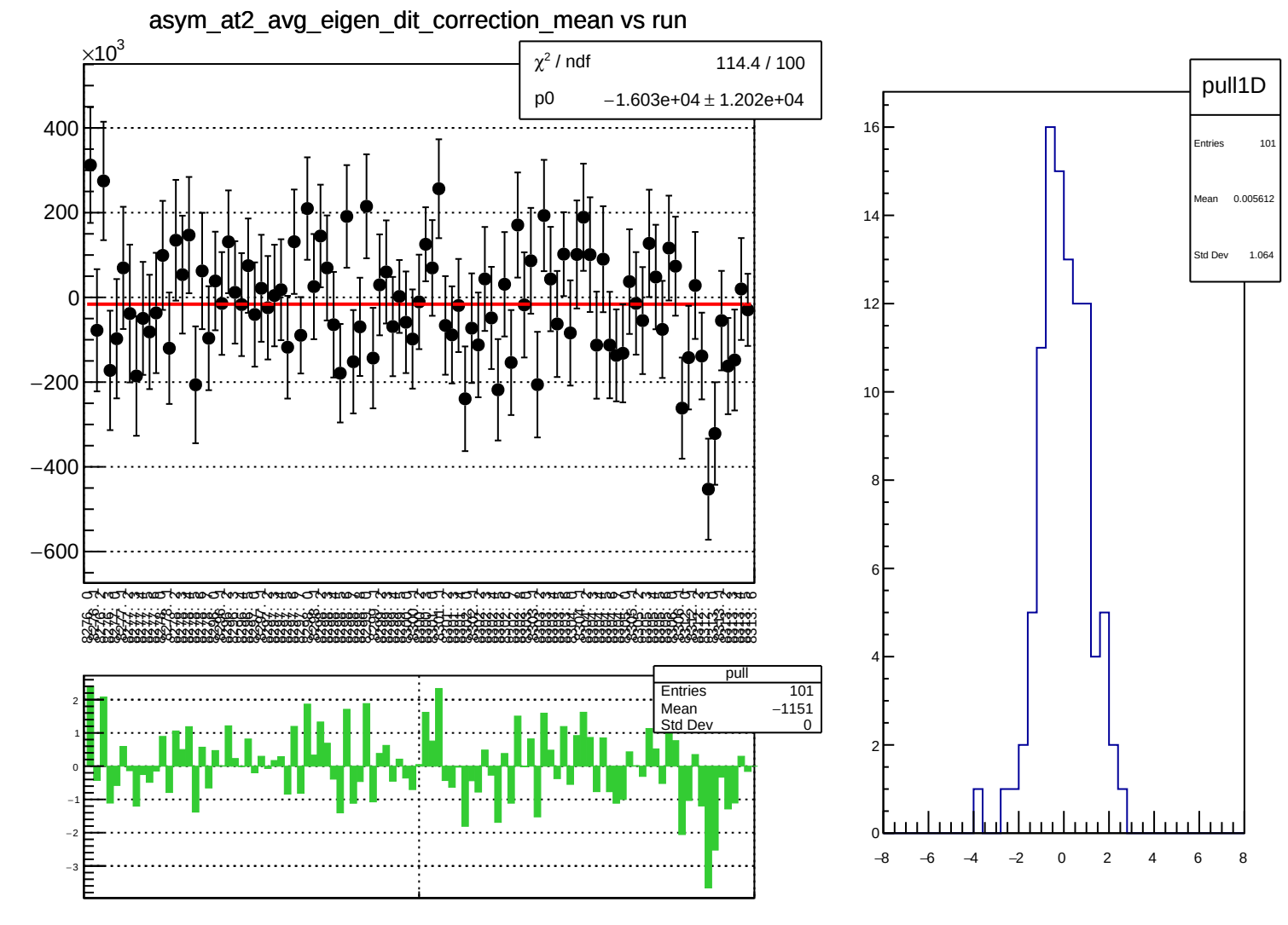

asym_at2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 114.4 / 100
p0 −1.603e+04 ± 1.202e+04
400
200
0
−200
−400
−600
pull
Entries 101
Mean −1151
Std Dev 0
2
1
0
−1
−2
−3

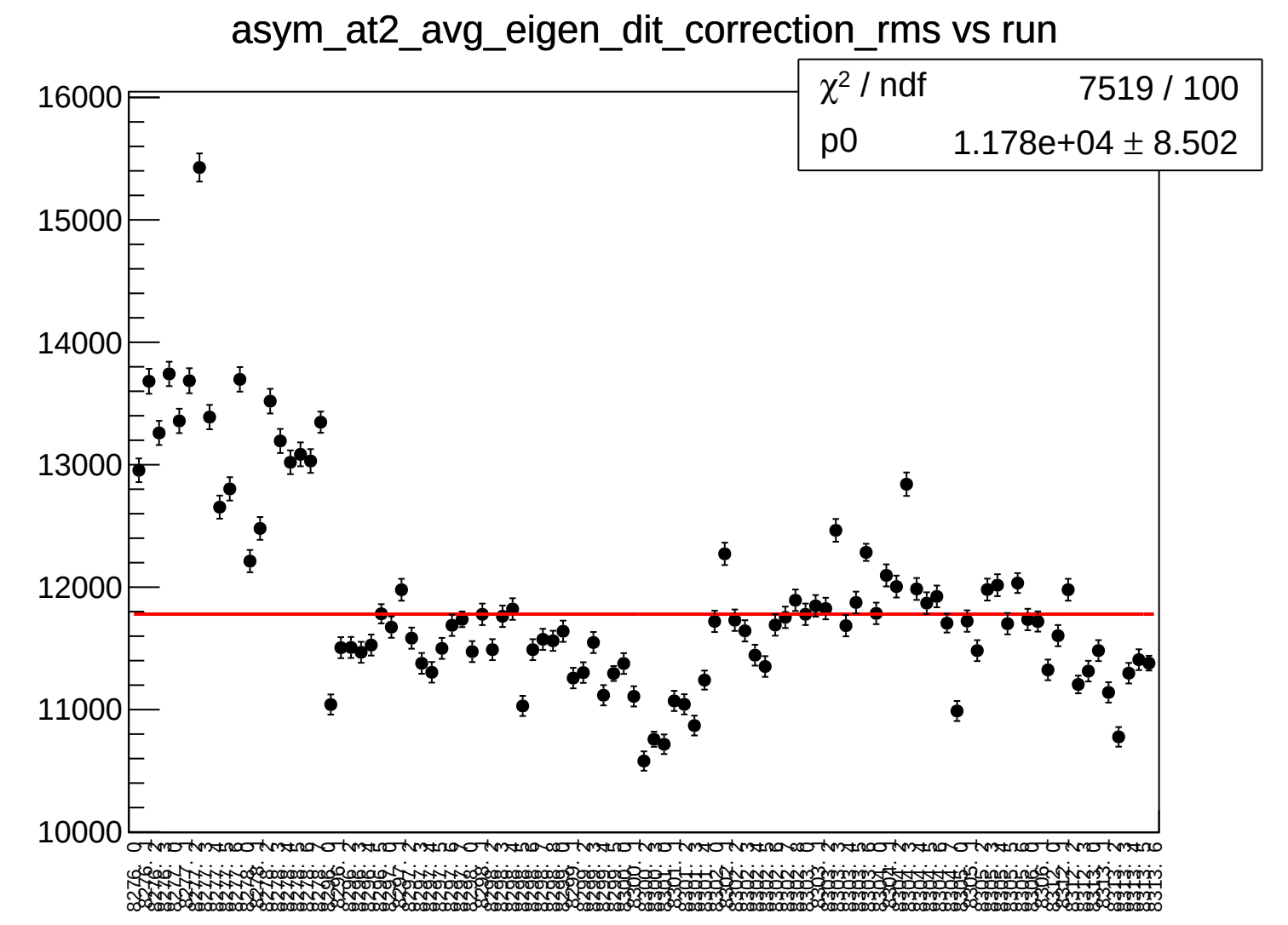

pull1D
Entries 101
Mean 0.005612
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

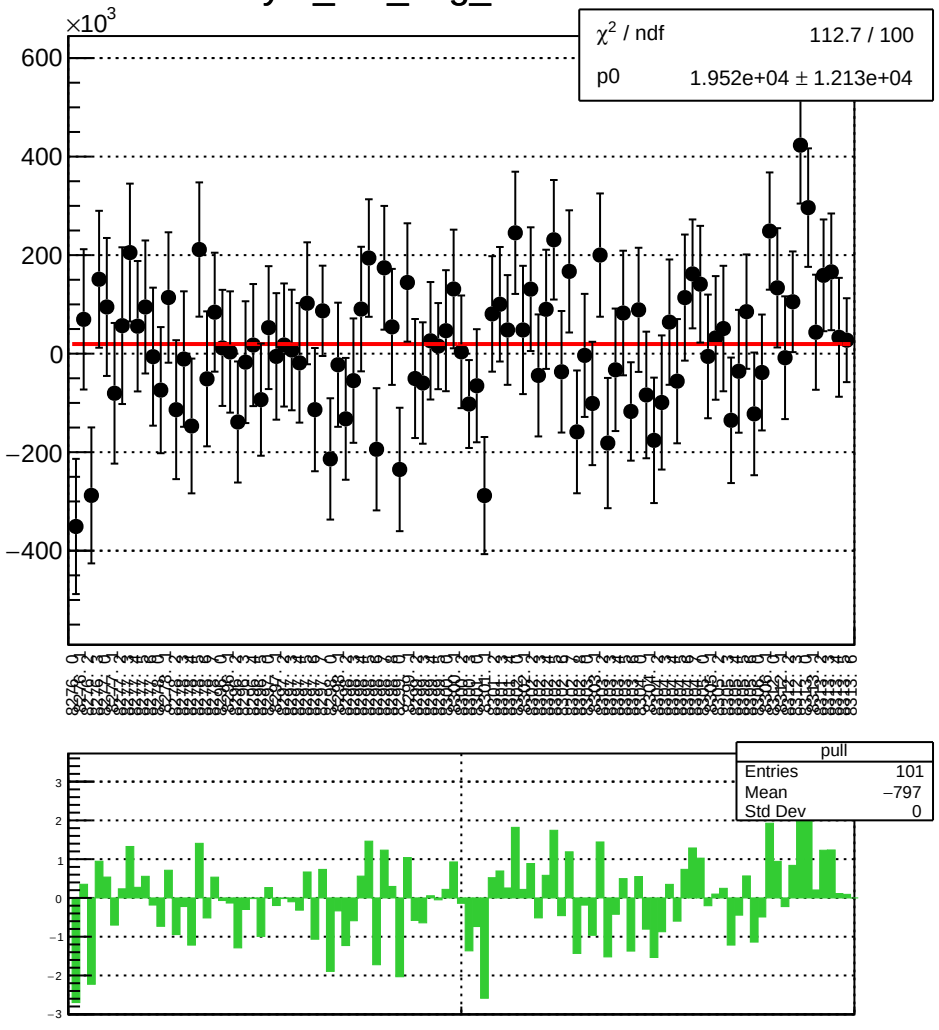

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 7519 / 100
p0 1.178e+04 ± 8.502
16000
15000
14000
13000
12000
11000
10000

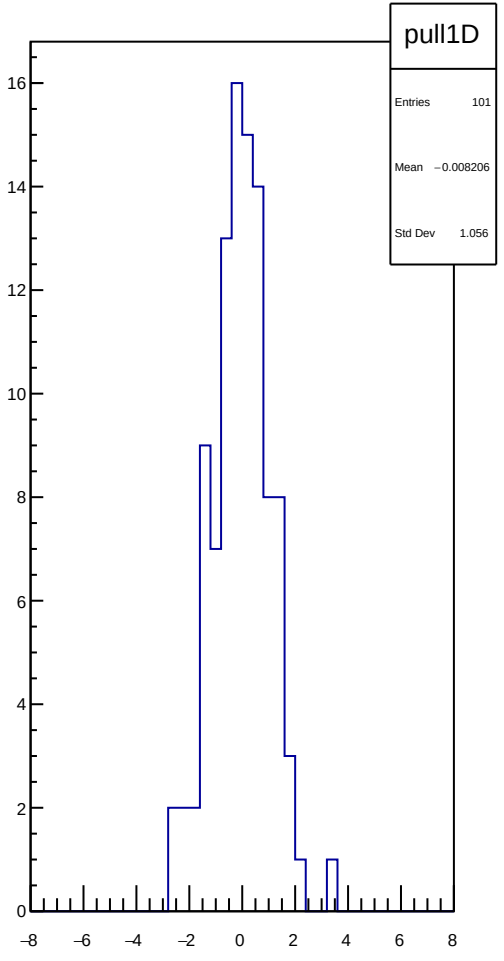

eigen_dit_asym_at2_avg_mean vs run
χ² / ndf 108.8 / 100
p0 2844 ± 1891
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 101
Mean 1508
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.001123
Std Dev 1.038
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

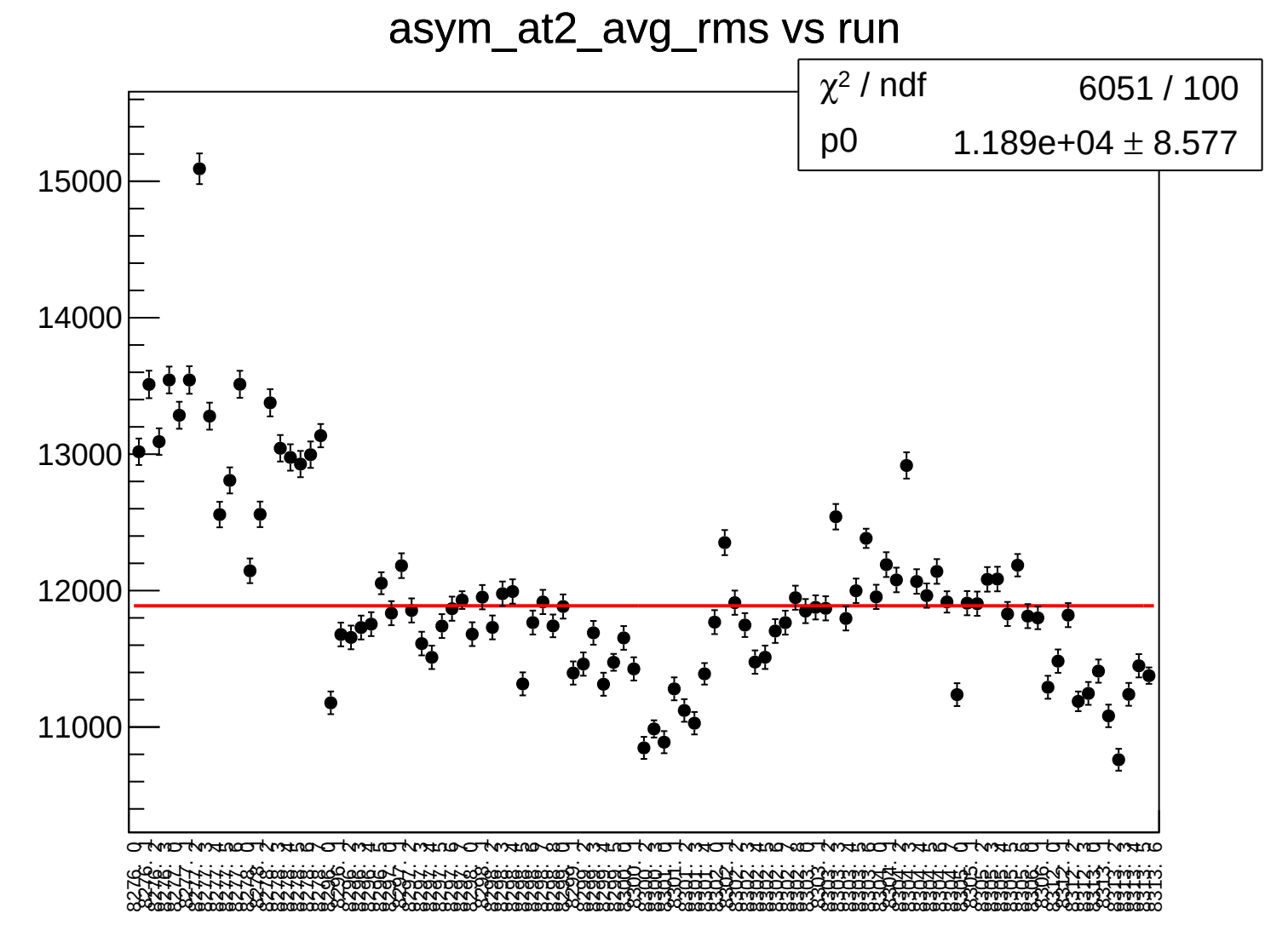

eigen_dit_asym_at2_avg_rms vs run
χ² / ndf 953.4 / 100
p0 1856 ± 1.337
2050
2000
1950
1900
1850
1800

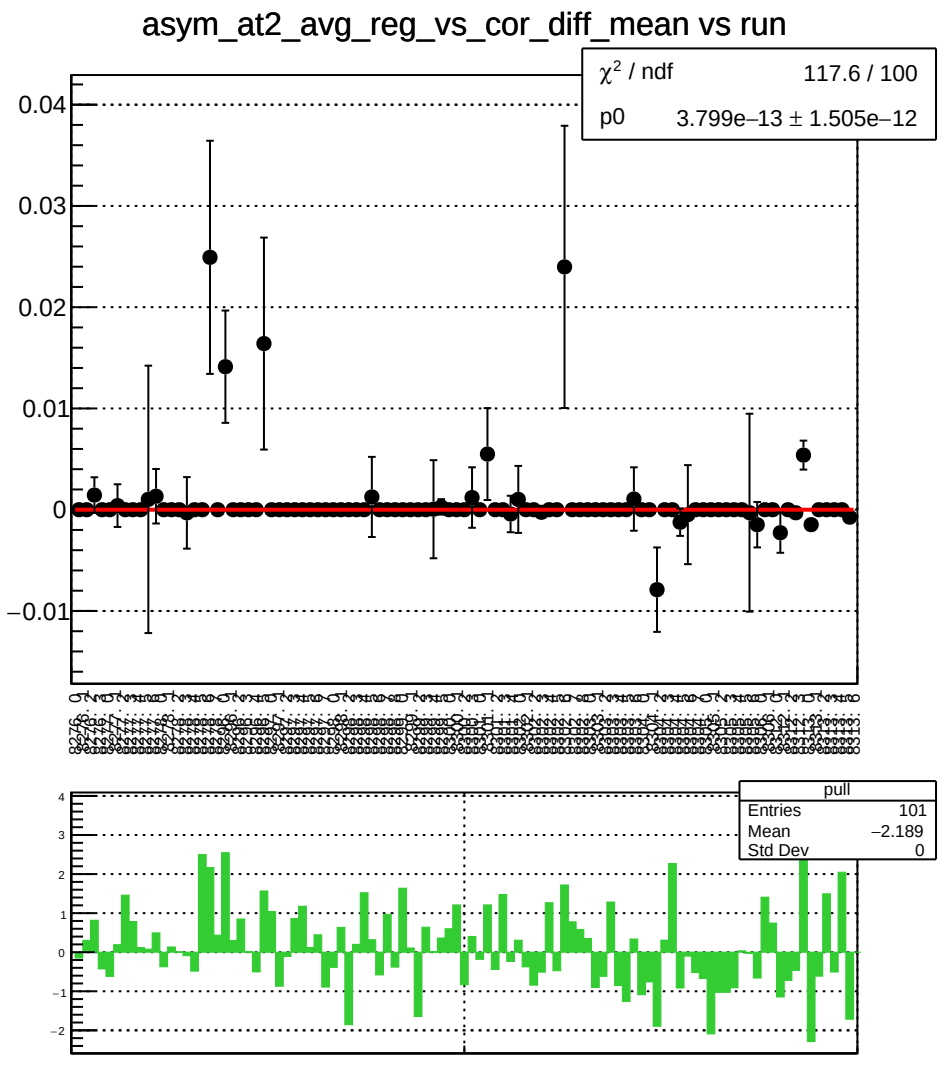

asym_at2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 114.4 / 100
p0 −1.603e+04 ± 1.202e+04
400
200
0
−200
−400
−600
pull
Entries 101
Mean −1151
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.005612
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

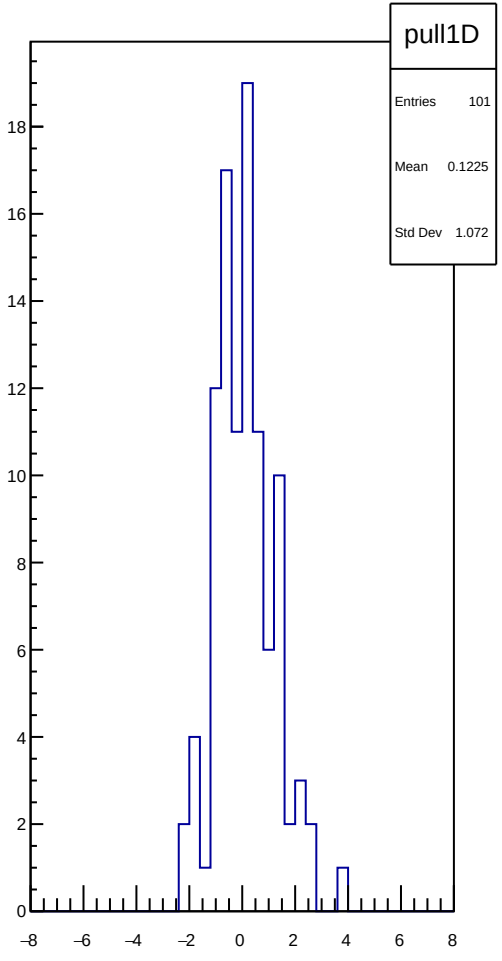

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 7519 / 100
p0 1.178e+04 ± 8.502
16000
15000
14000
13000
12000
11000
10000

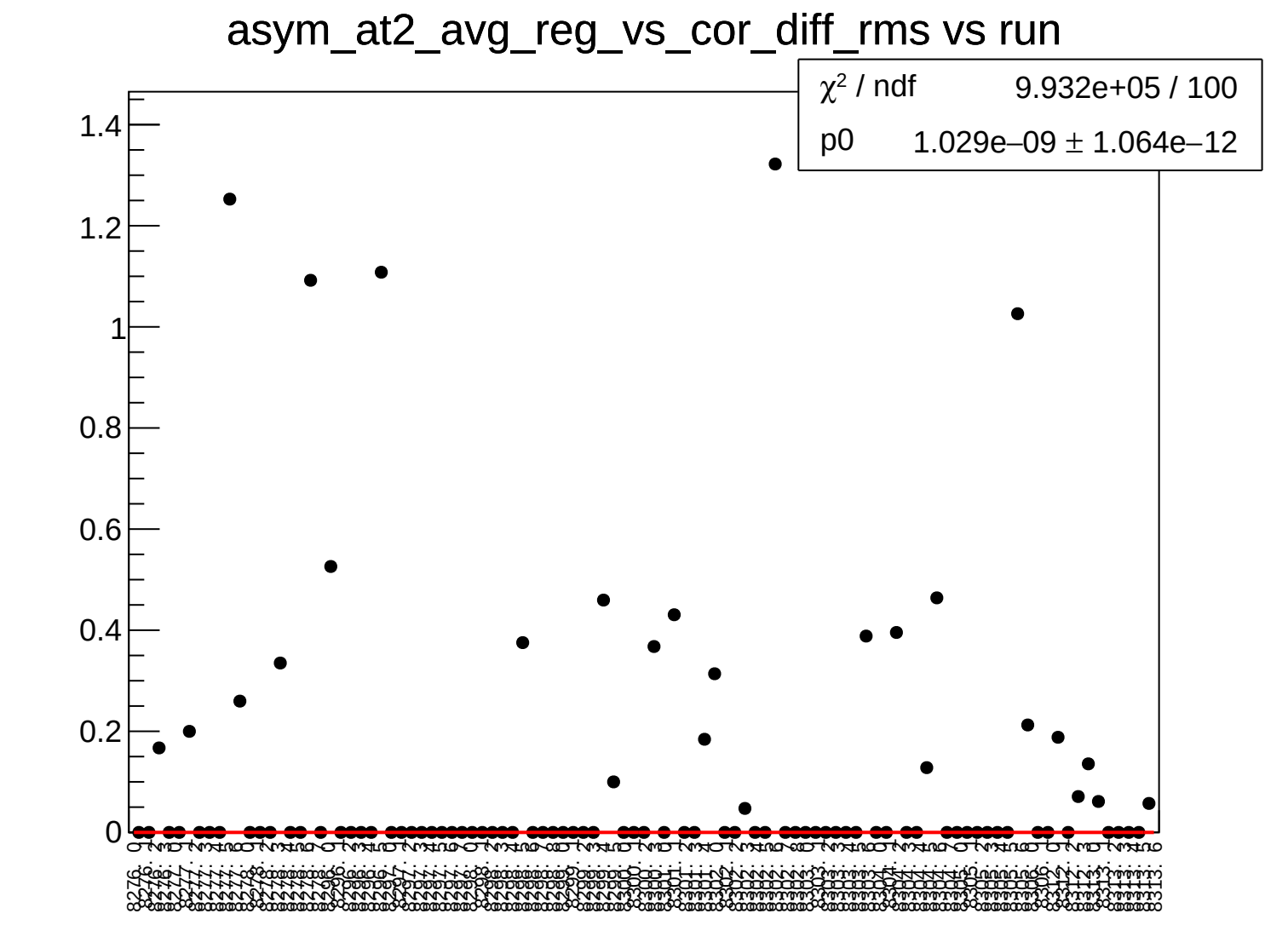

asym_at2_avg_mean vs run
×10^3
χ² / ndf 112.7 / 100
p0 1.952e+04 ± 1.213e+04
pull
Entries 101
Mean −797
Std Dev 0

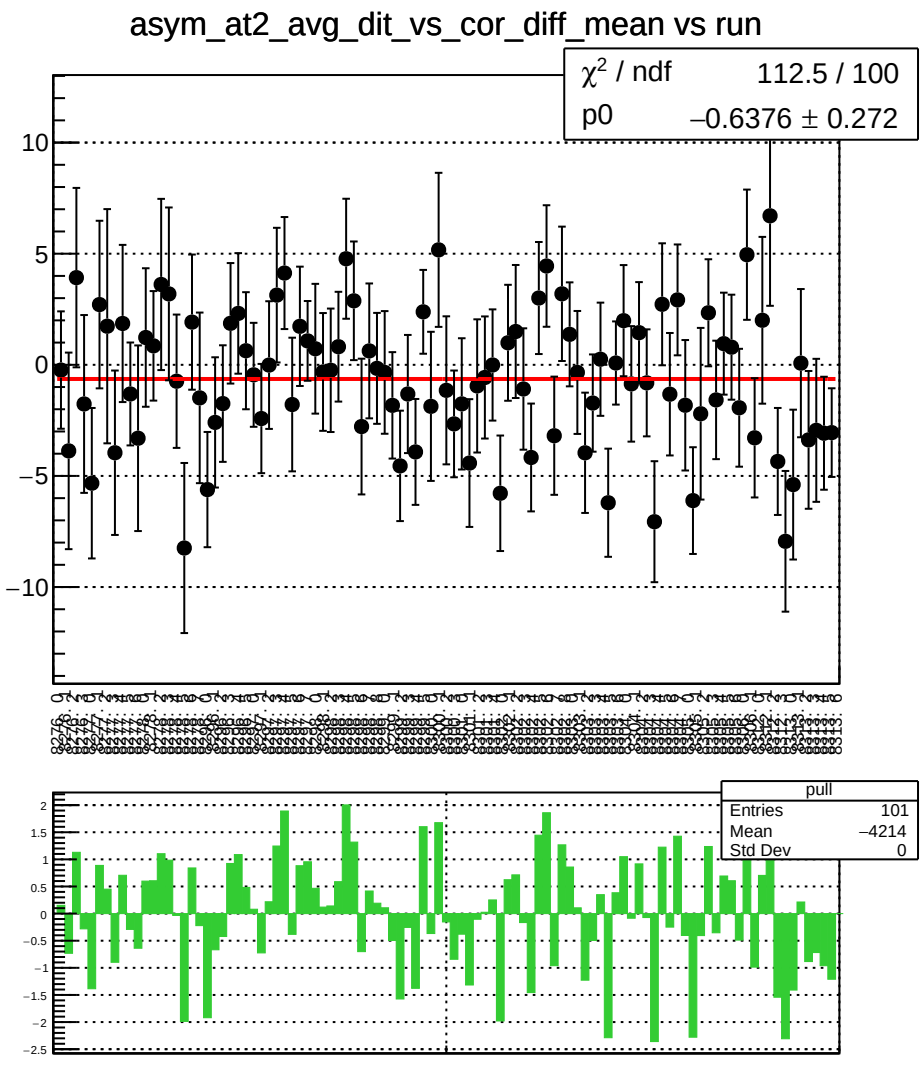

pull1D
Entries 101
Mean −0.008206
Std Dev 1.056

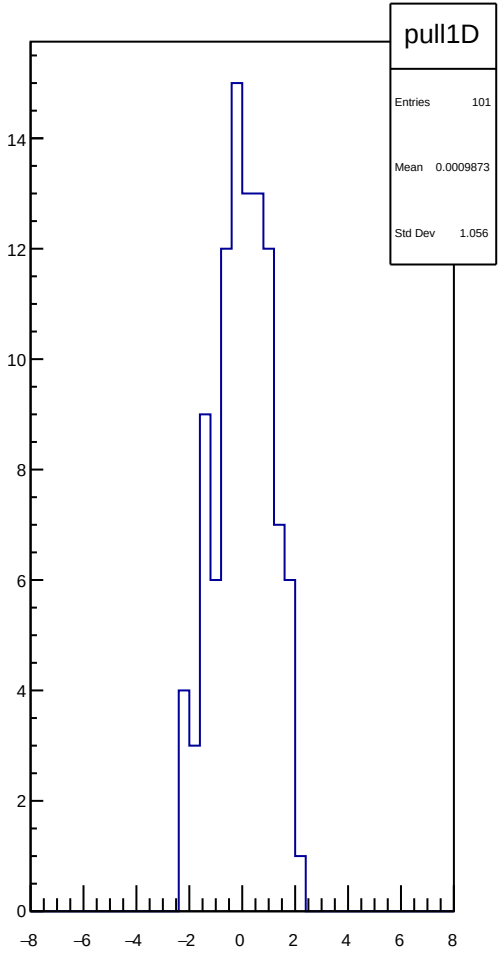

asym_at2_avg_rms vs run
χ² / ndf 6051 / 100
p0 1.189e+04 ± 8.577
15000
14000
13000
12000
11000

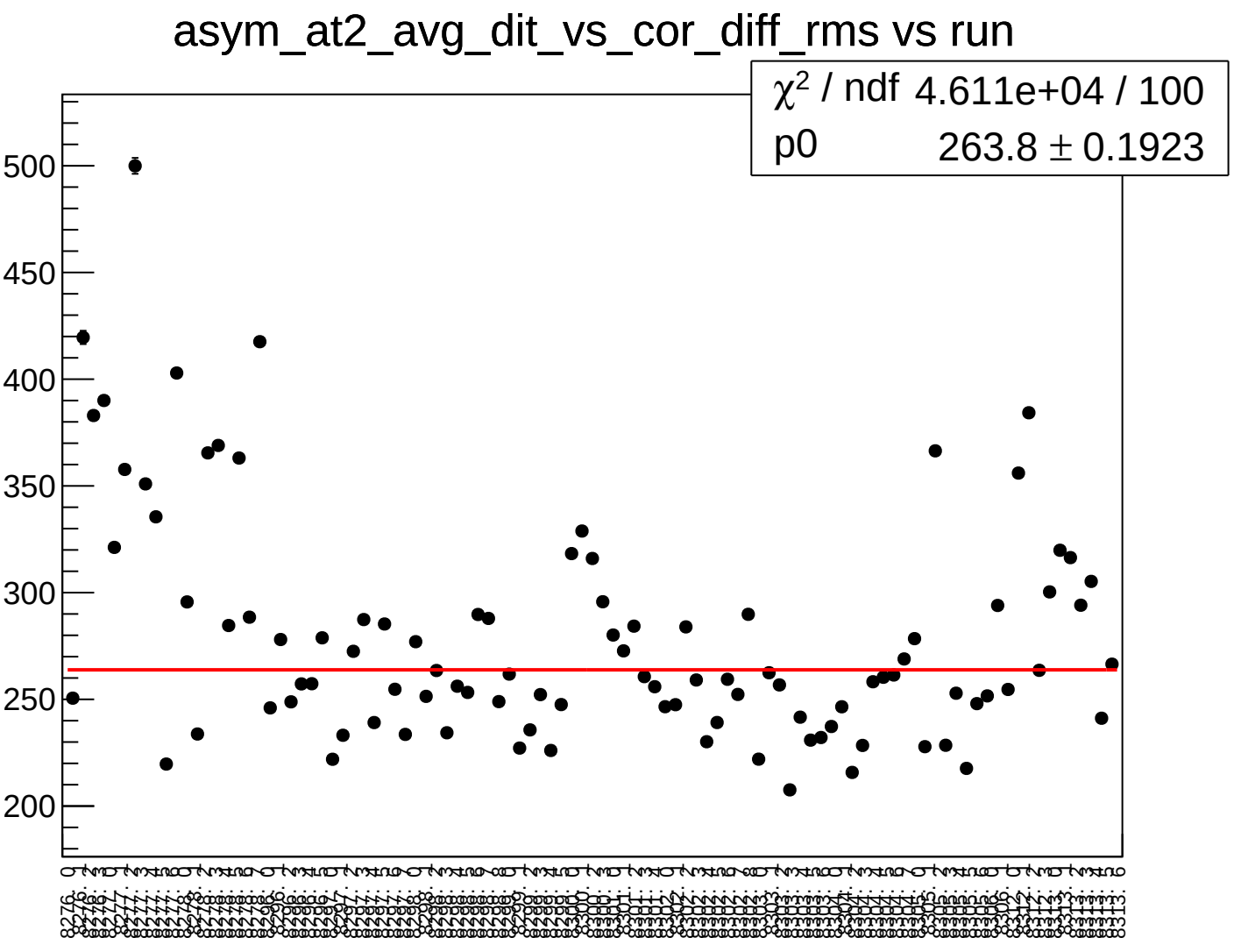

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 117.6 / 100
p0 3.799e−13 ± 1.505e−12
0.04
0.03
0.02
0.01
0
−0.01
pull
Entries 101
Mean −2.189
Std Dev 0
4
3
2
1
0
−1
−2

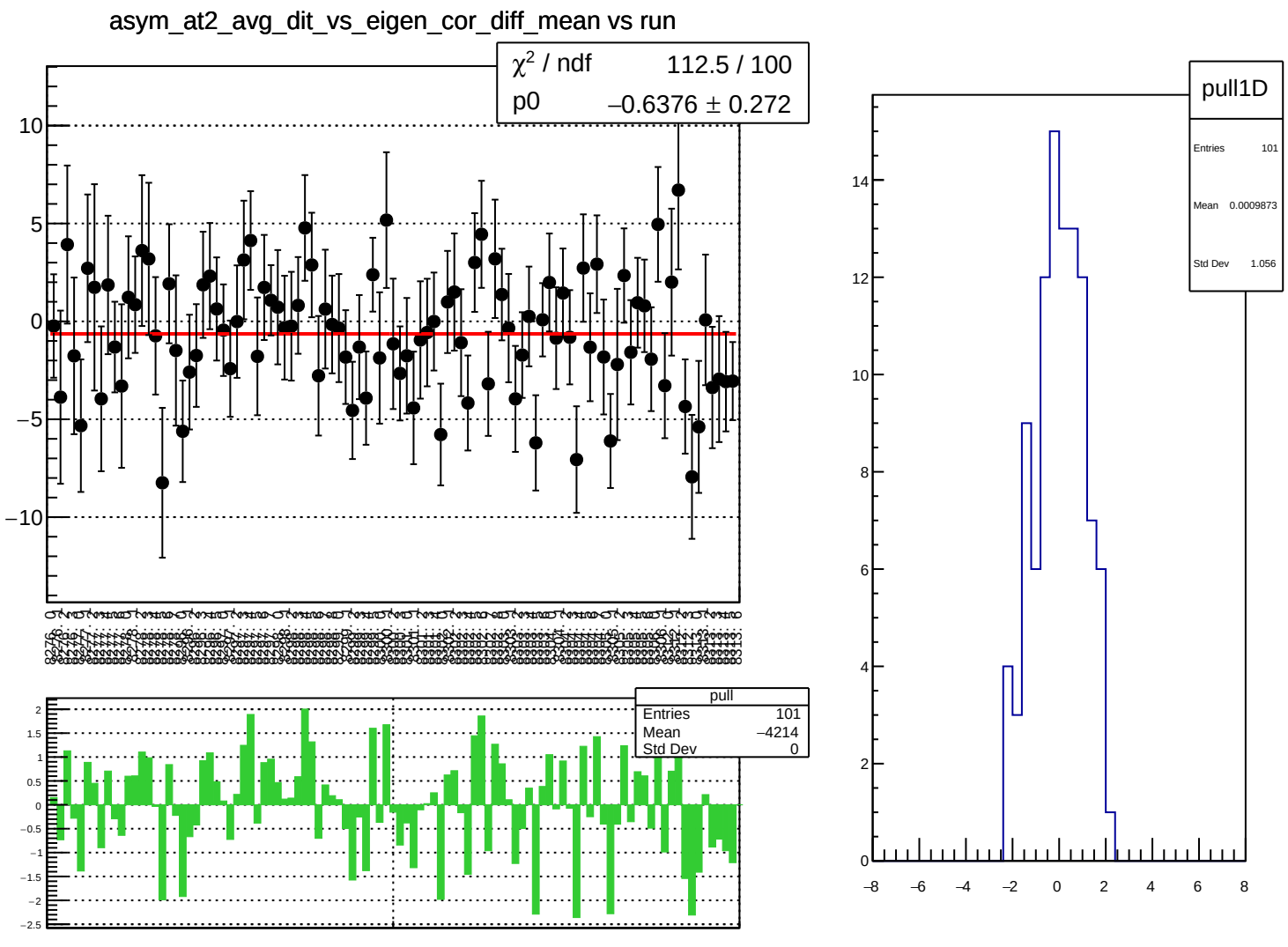

pull1D
Entries 101
Mean 0.1225
Std Dev 1.072
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

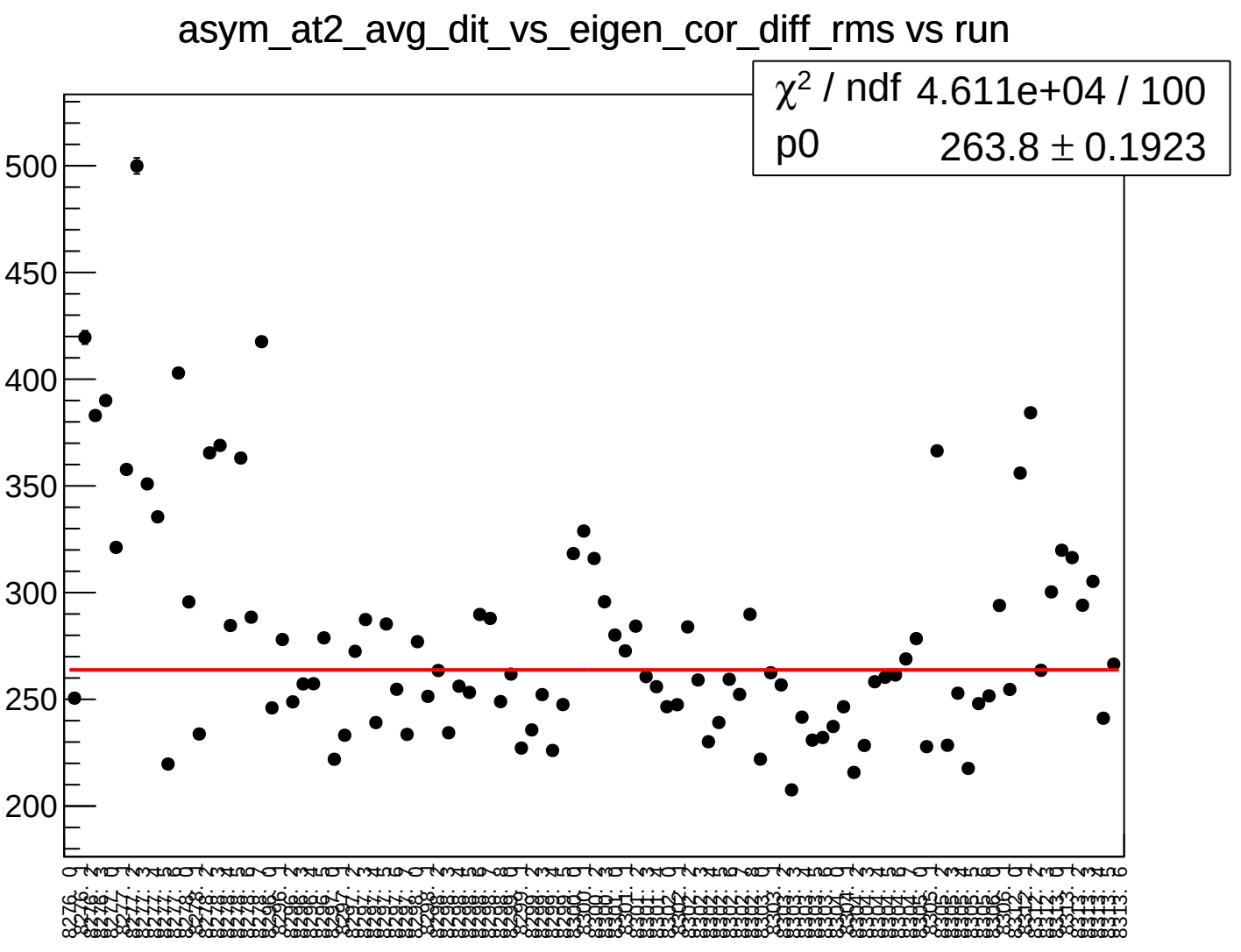

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.932e+05 / 100
p0 1.029e−09 ± 1.064e−12
1.4
1.2
1
0.8
0.6
0.4
0.2
0

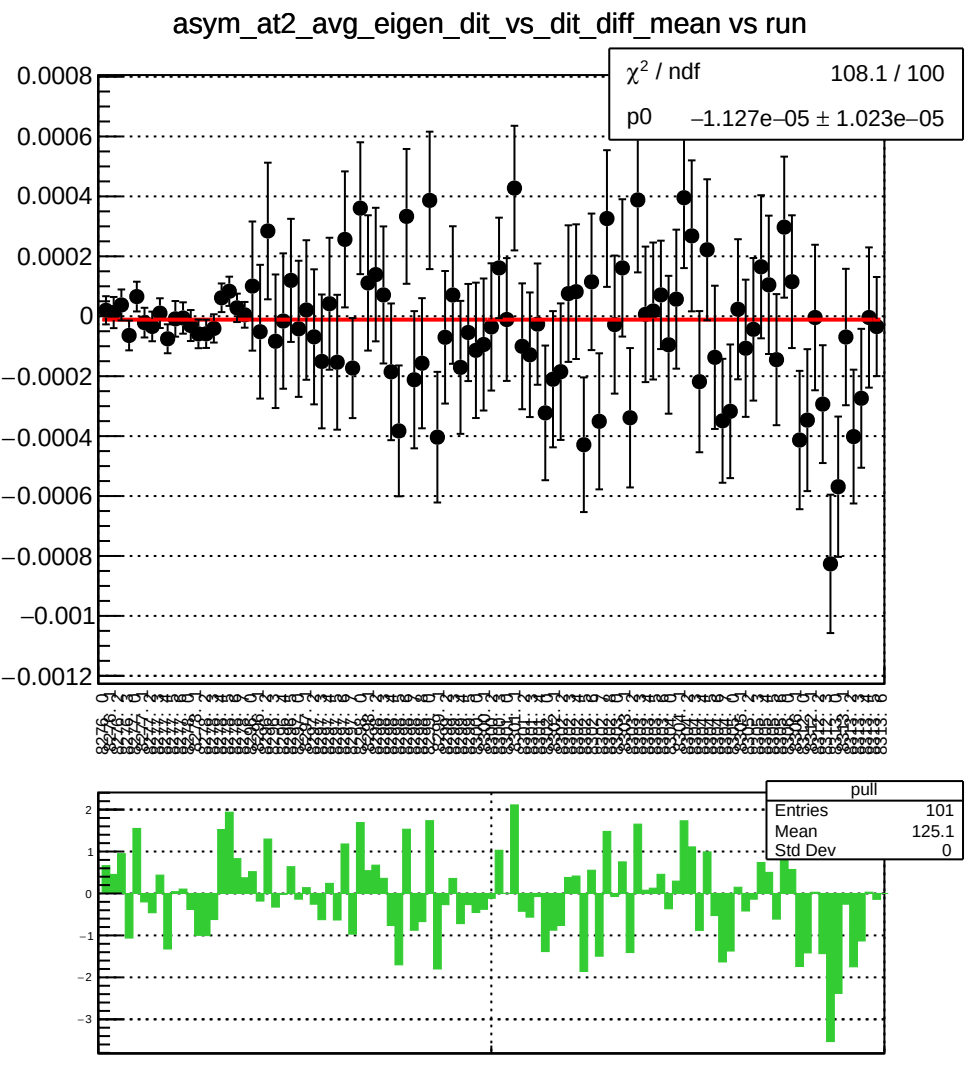

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 112.5 / 100
p0 −0.6376 ± 0.272
pull
Entries 101
Mean −4214
Std Dev 0

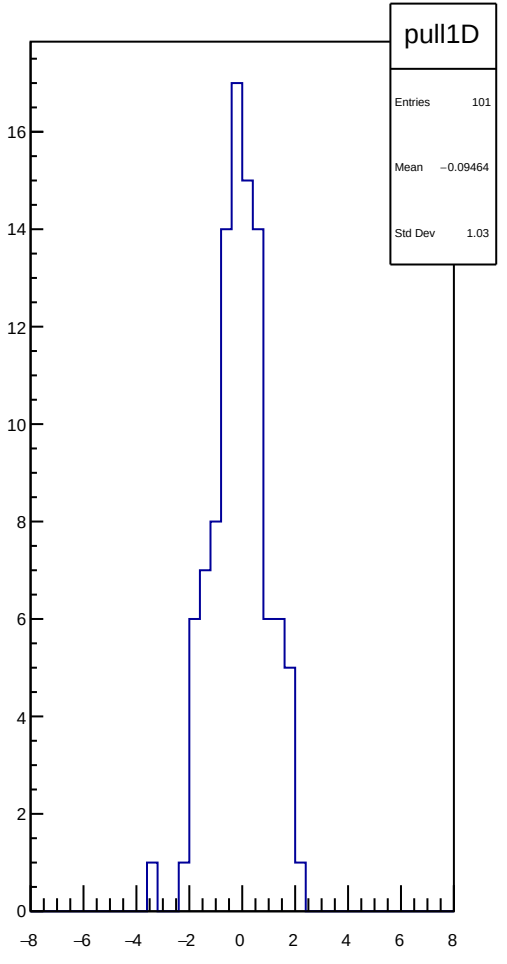

pull1D
Entries 101
Mean 0.0009873
Std Dev 1.056

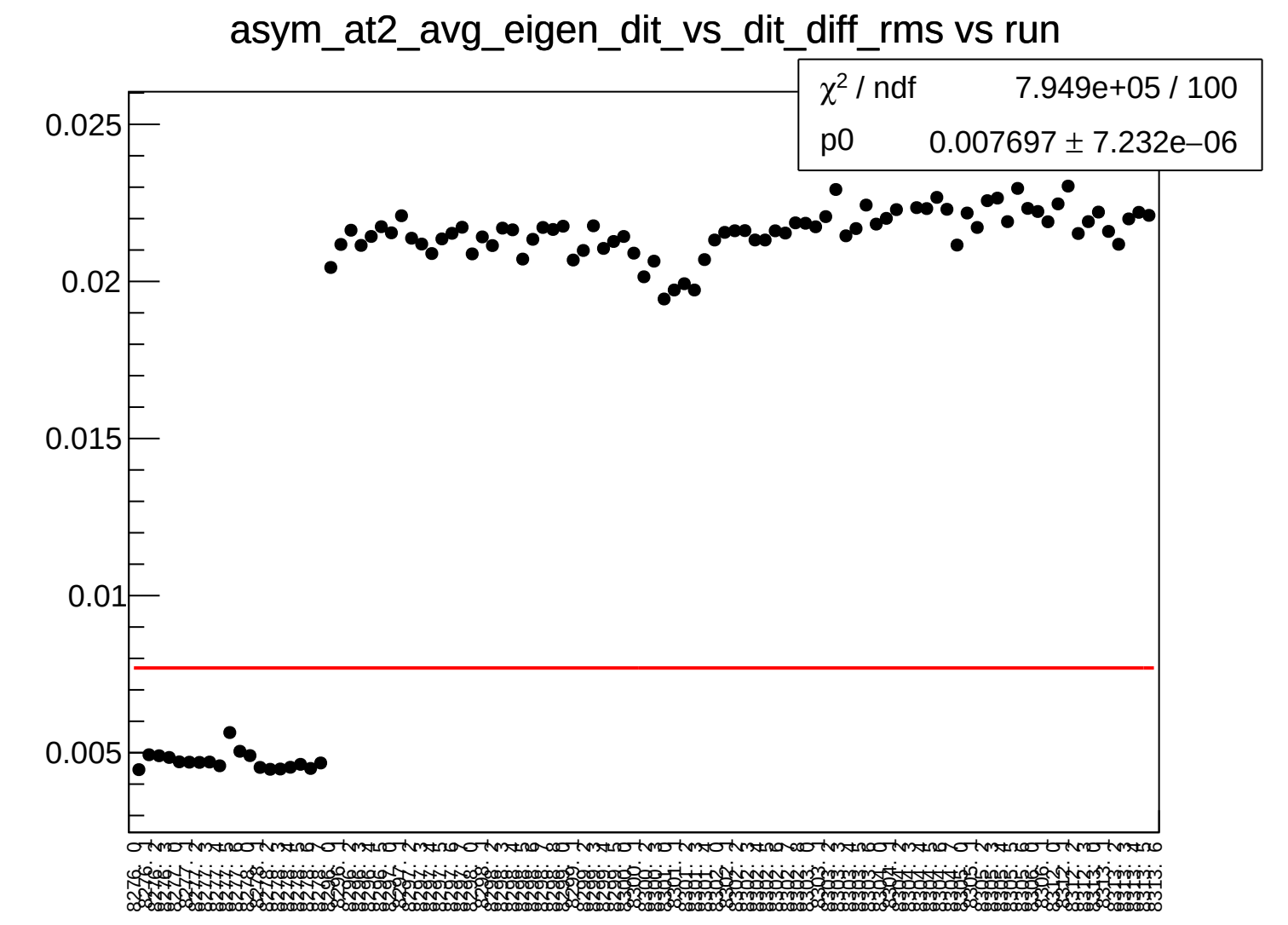

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.611e+04 / 100
p0 263.8 ± 0.1923
500
450
400
350
300
250
200

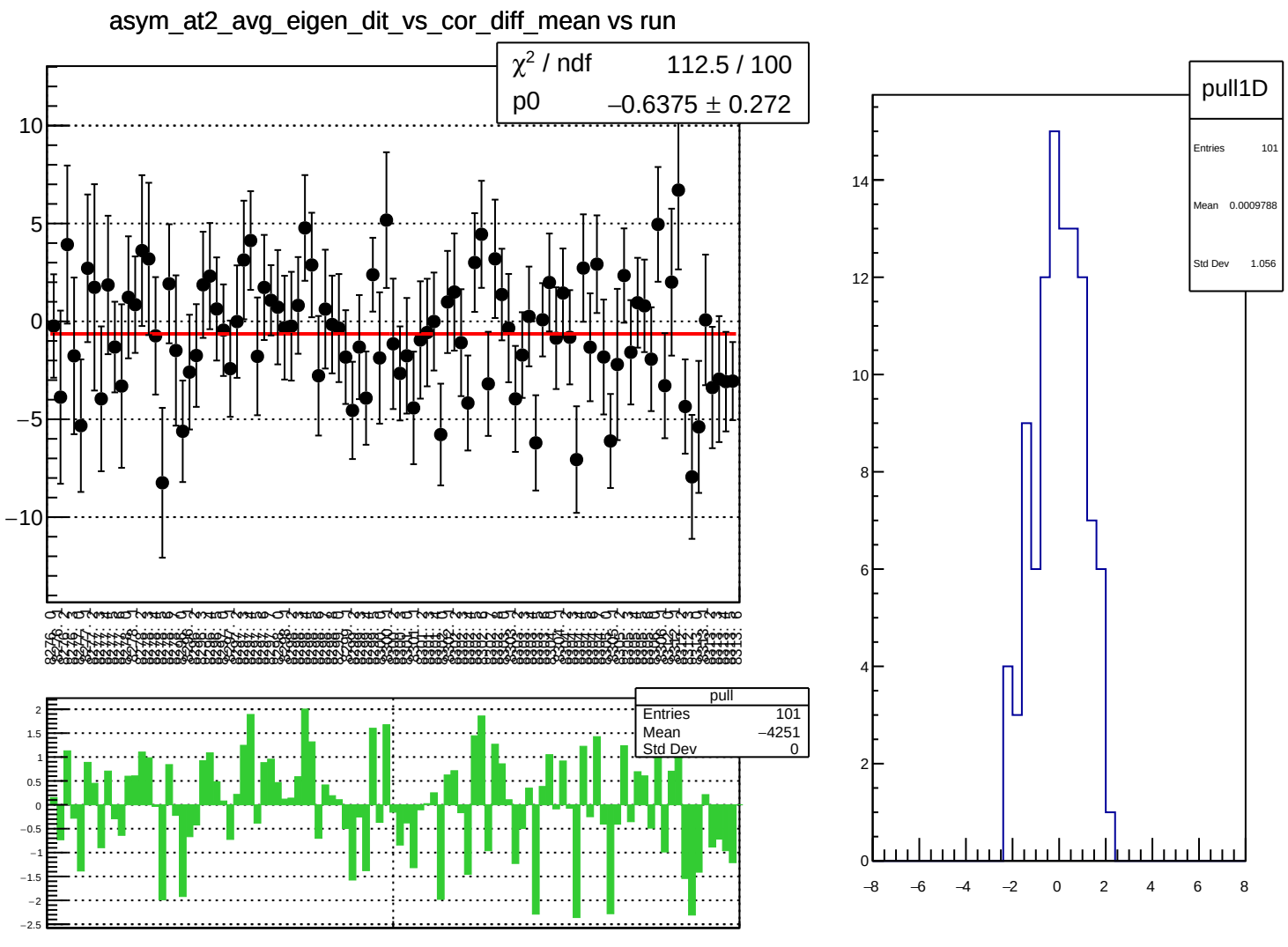

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.5 / 100
p0 −0.6376 ± 0.272
pull
Entries 101
Mean −4214
Std Dev 0
pull1D
Entries 101
Mean 0.0009873
Std Dev 1.056

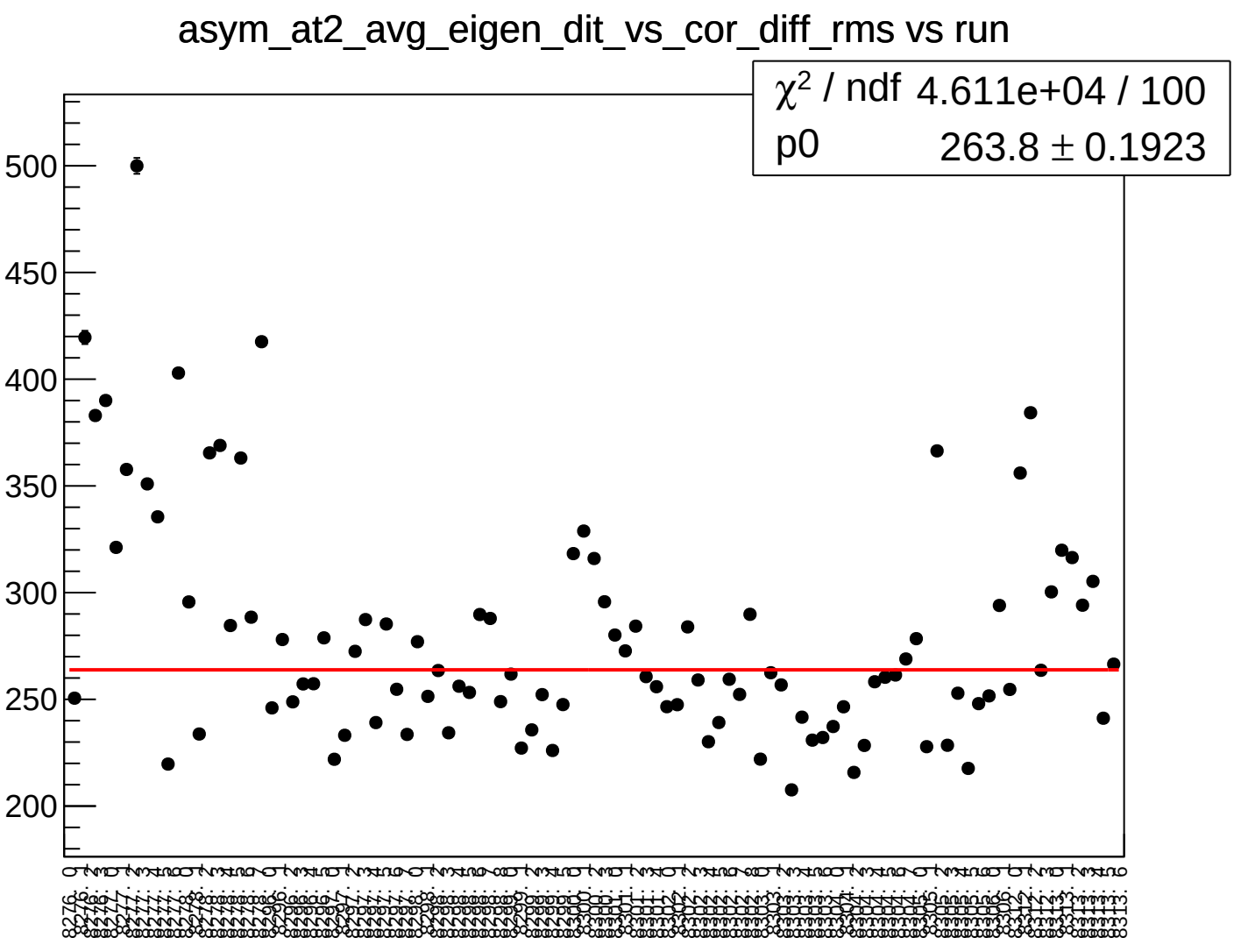

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.611e+04 / 100
p0 263.8 ± 0.1923
500
450
400
350
300
250
200

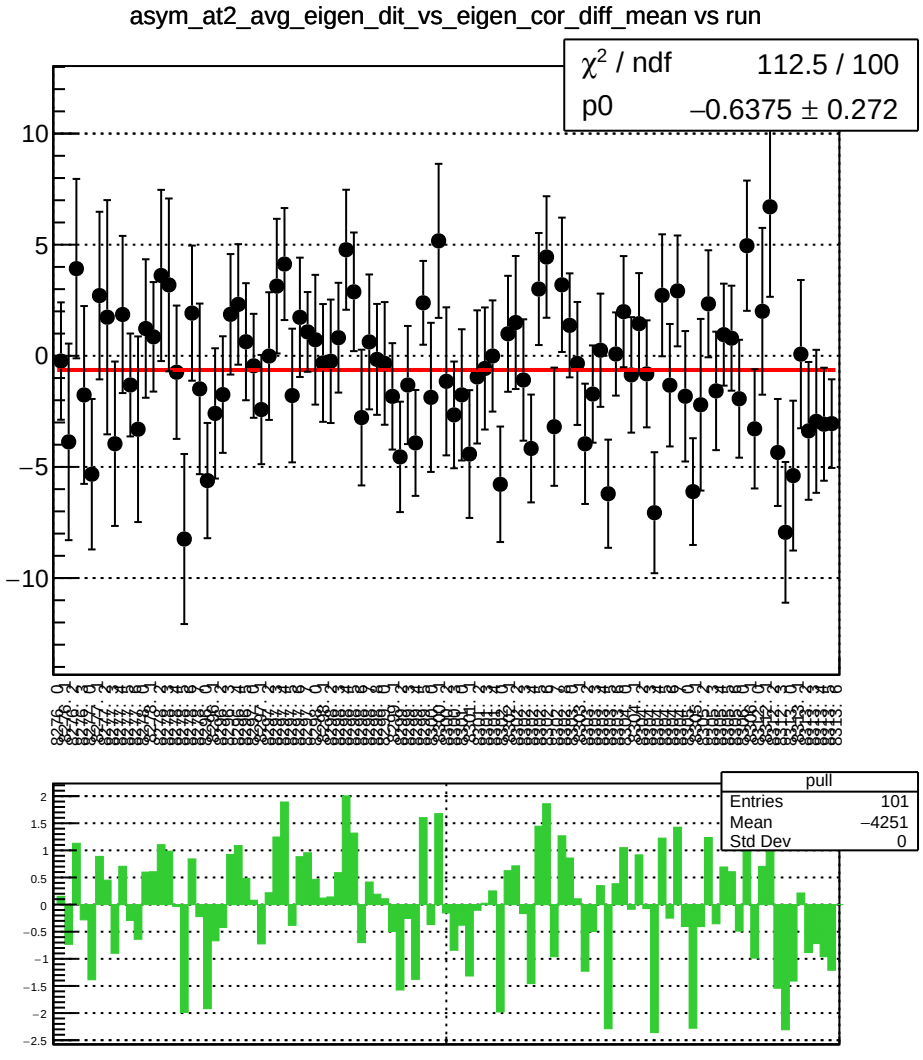

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 108.1 / 100
p0 −1.127e−05 ± 1.023e−05
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
pull
Entries 101
Mean 125.1
Std Dev 0
2
1
0
−1
−2
−3

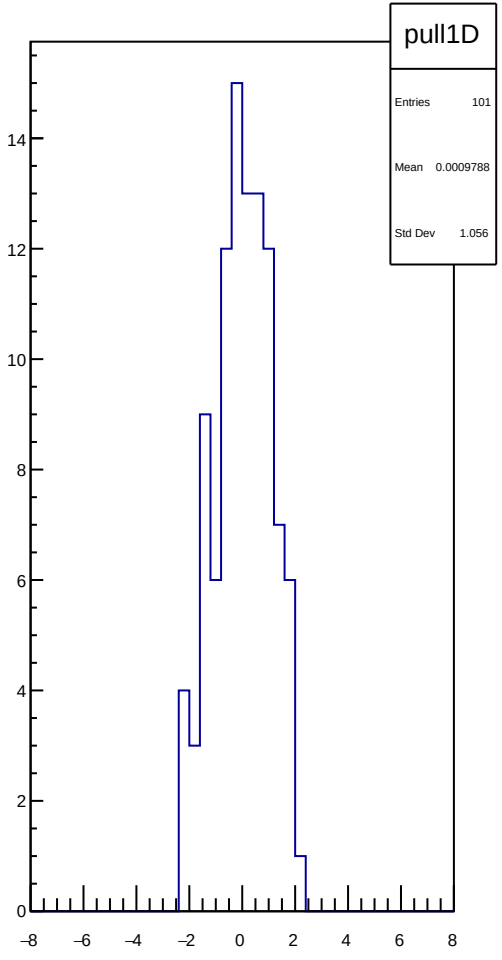

pull1D
Entries 101
Mean −0.09464
Std Dev 1.03
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

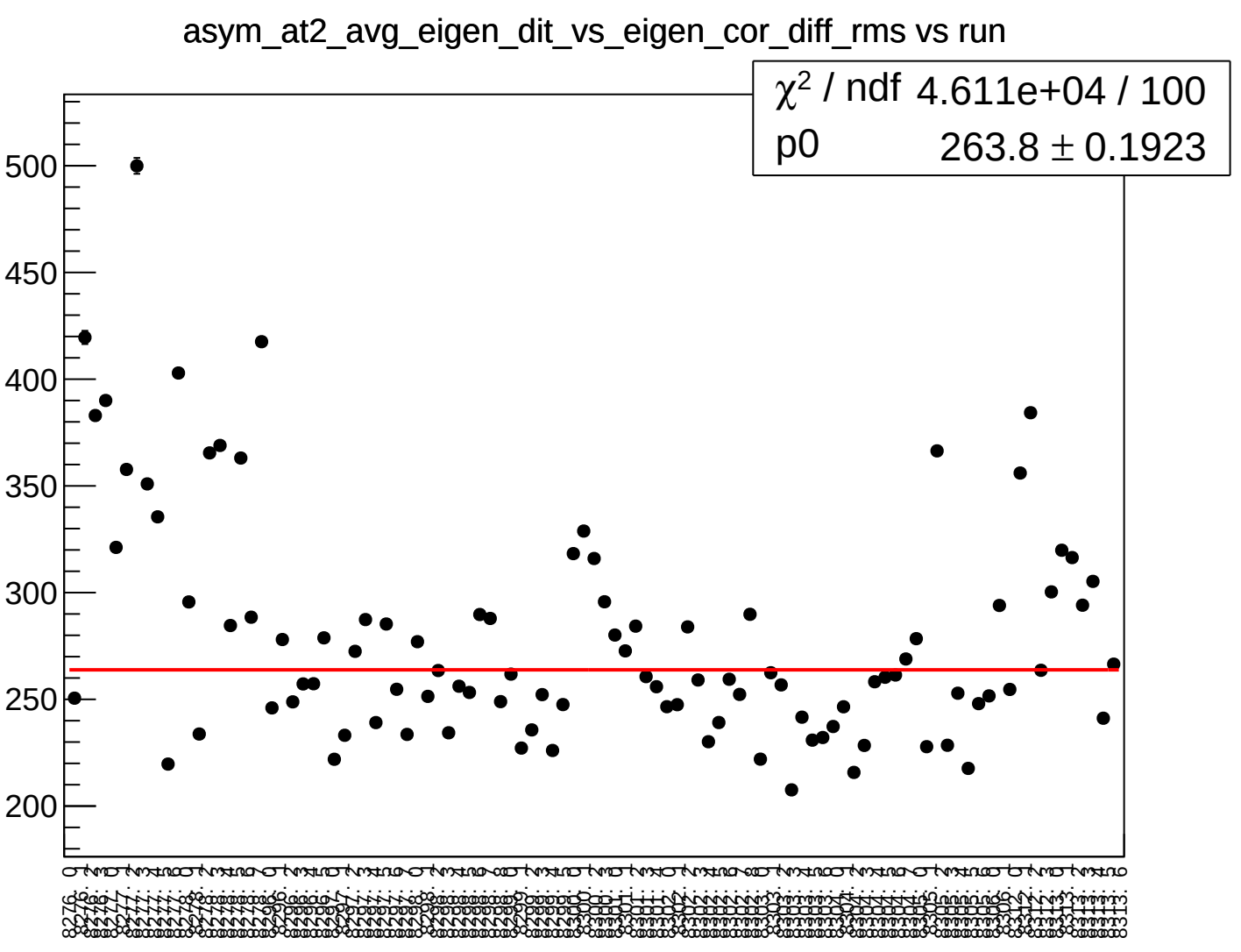

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.949e+05 / 100
p0 0.007697 ± 7.232e−06
0.025
0.02
0.015
0.01
0.005

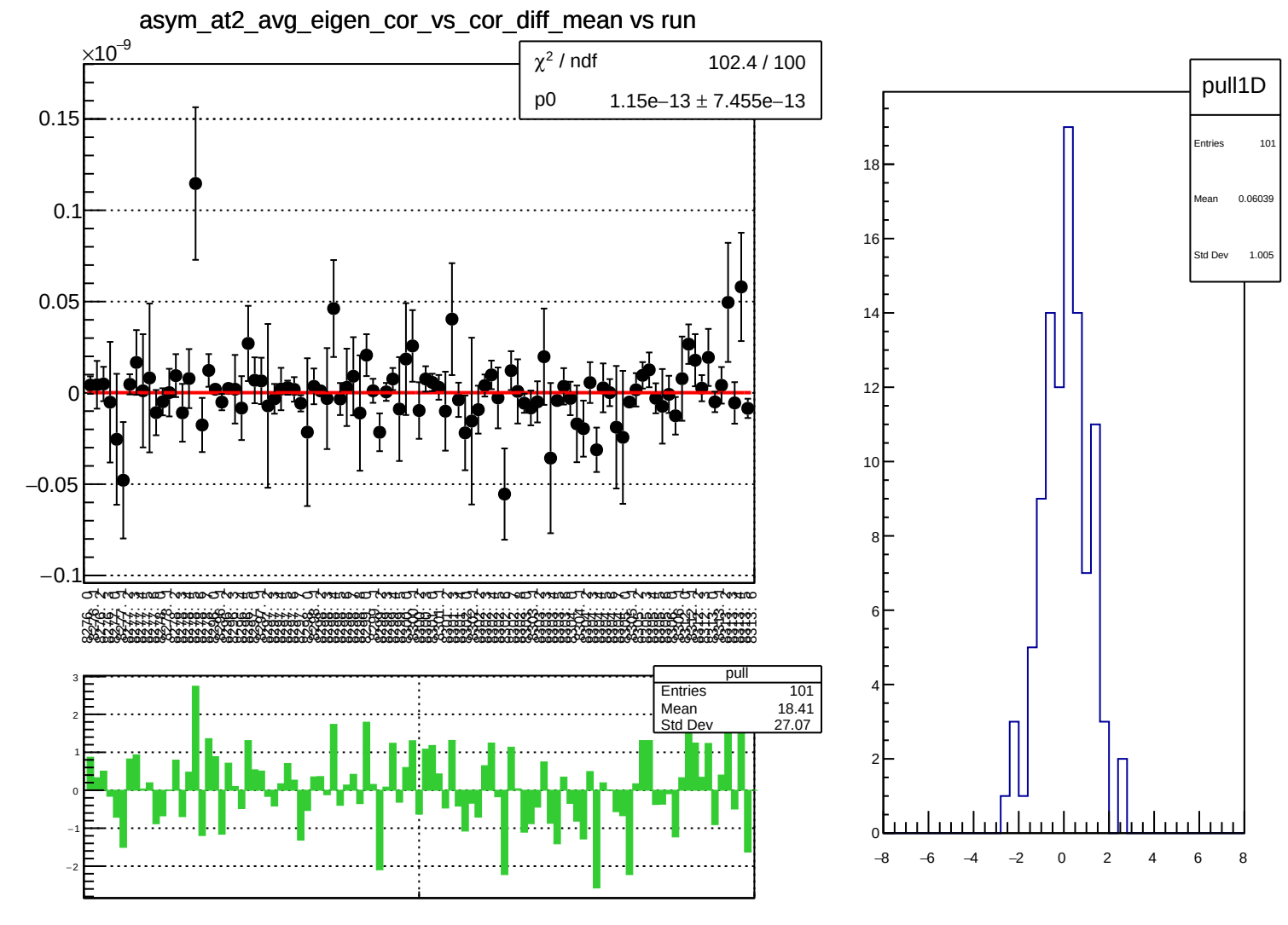

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 112.5 / 100
p0 −0.6375 ± 0.272
pull
Entries 101
Mean −4251
Std Dev 0
pull1D
Entries 101
Mean 0.0009788
Std Dev 1.056

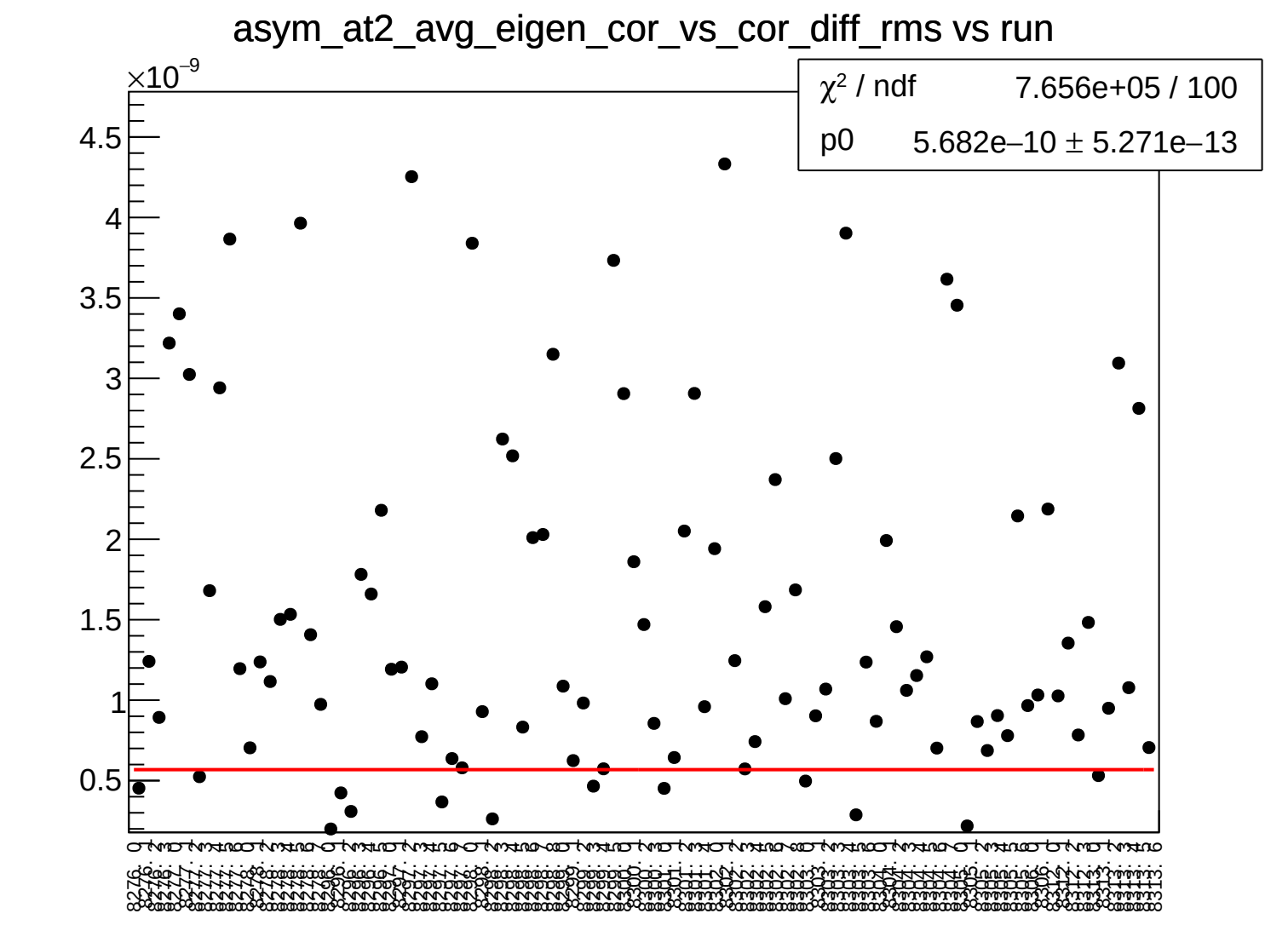

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.611e+04 / 100
p0 263.8 ± 0.1923
500
450
400
350
300
250
200

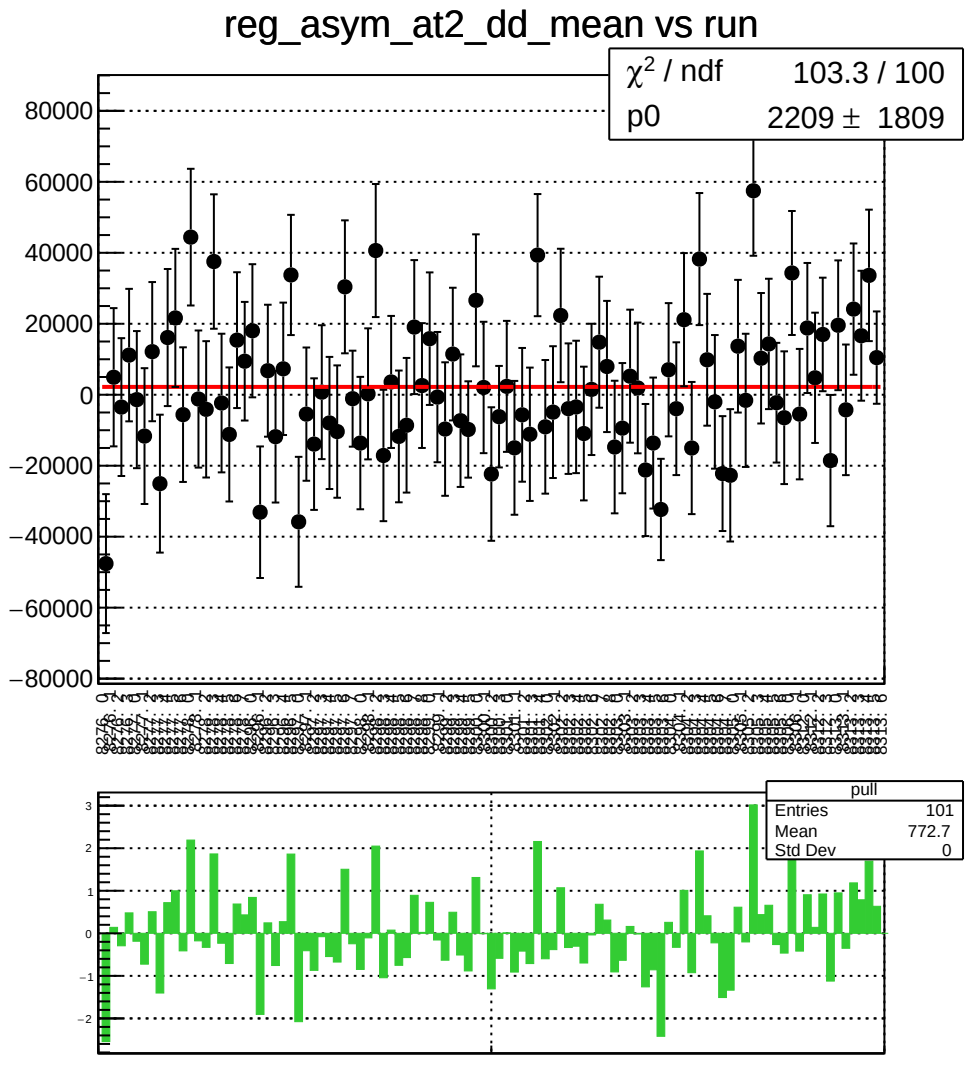

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.5 / 100
p0 −0.6375 ± 0.272
pull
Entries 101
Mean −4251
Std Dev 0

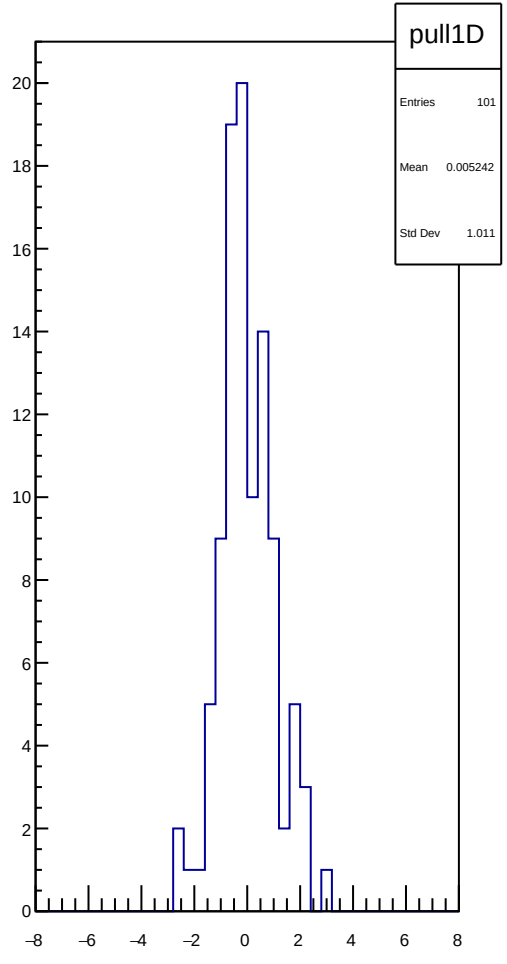

pull1D
Entries 101
Mean 0.0009788
Std Dev 1.056

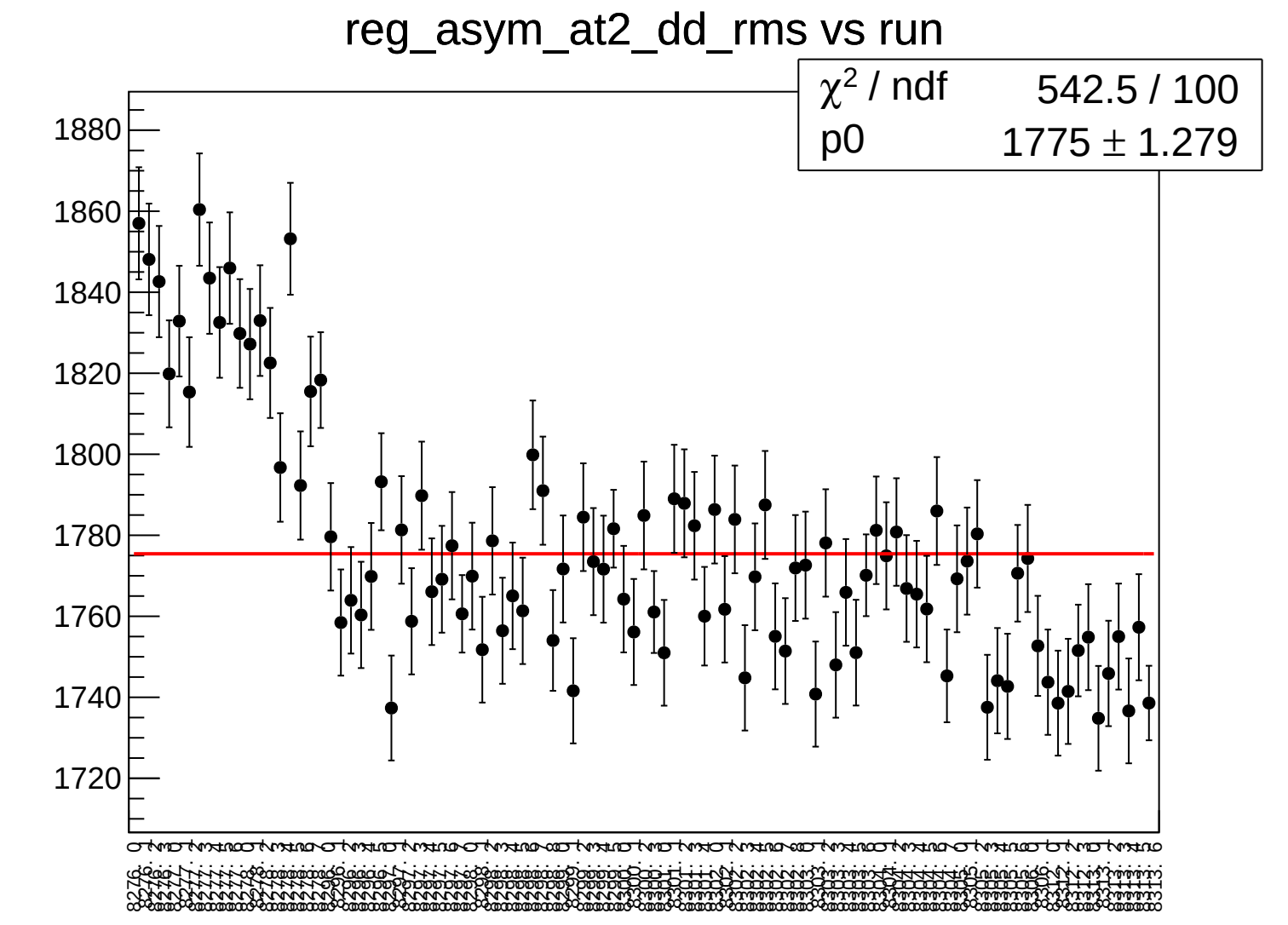

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.611e+04 / 100
p0 263.8 ± 0.1923
500
450
400
350
300
250
200

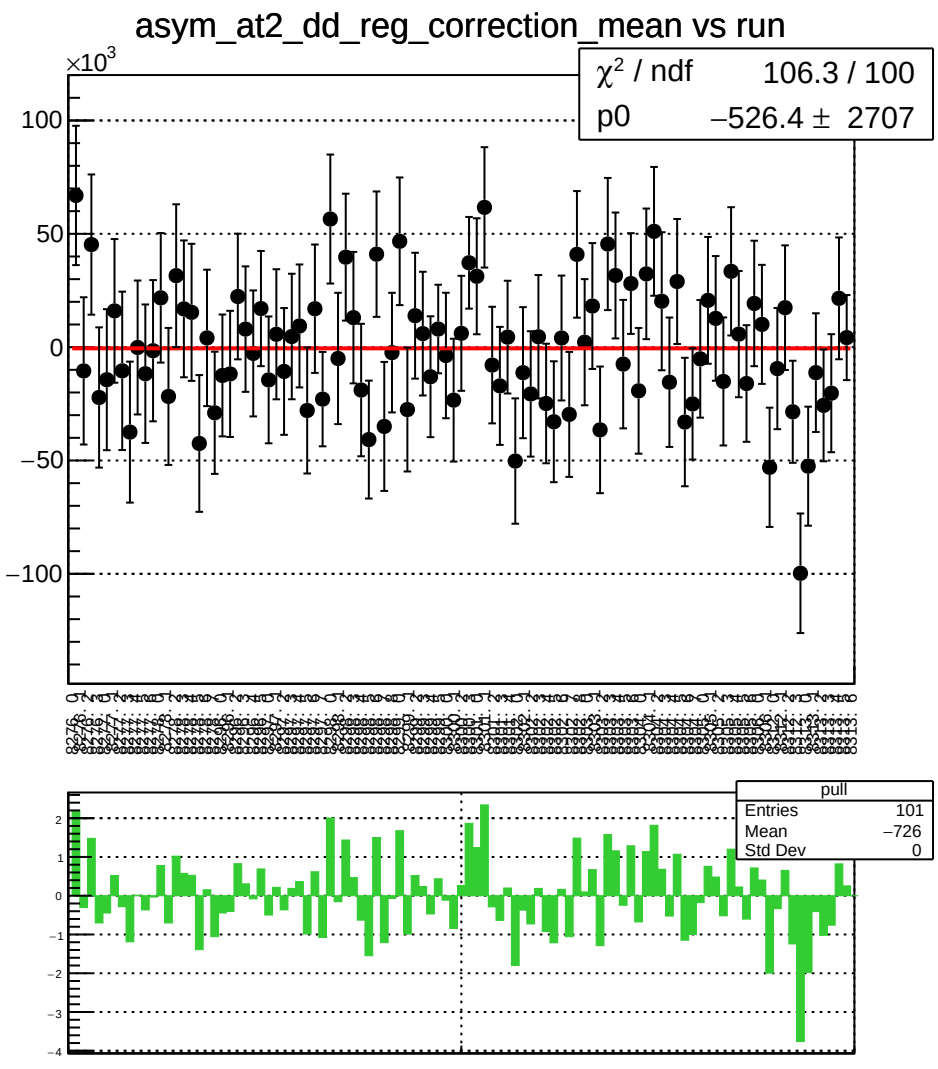

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 102.4 / 100
p0 1.15e−13 ± 7.455e−13
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 101
Mean 18.41
Std Dev 27.07
3
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.06039
Std Dev 1.005
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

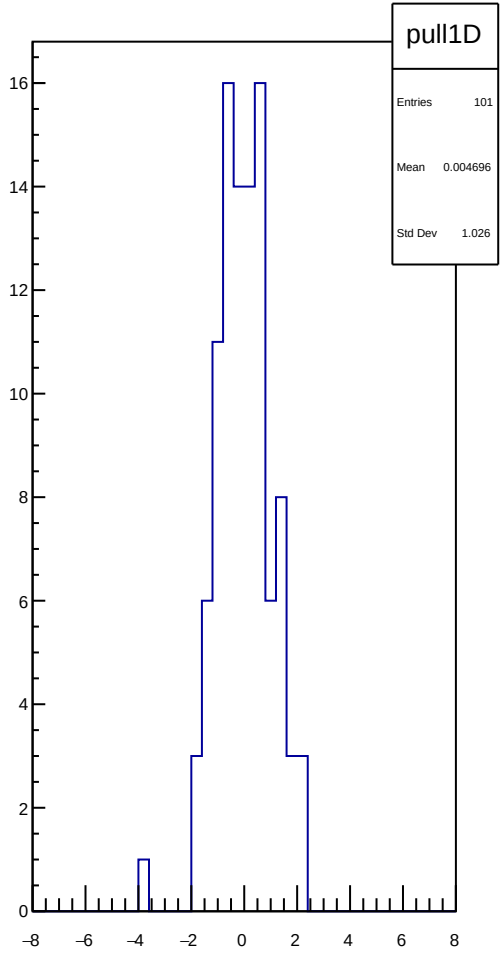

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.656e+05 / 100
p0 5.682e−10 ± 5.271e−13
4.5
4
3.5
3
2.5
2
1.5
1
0.5

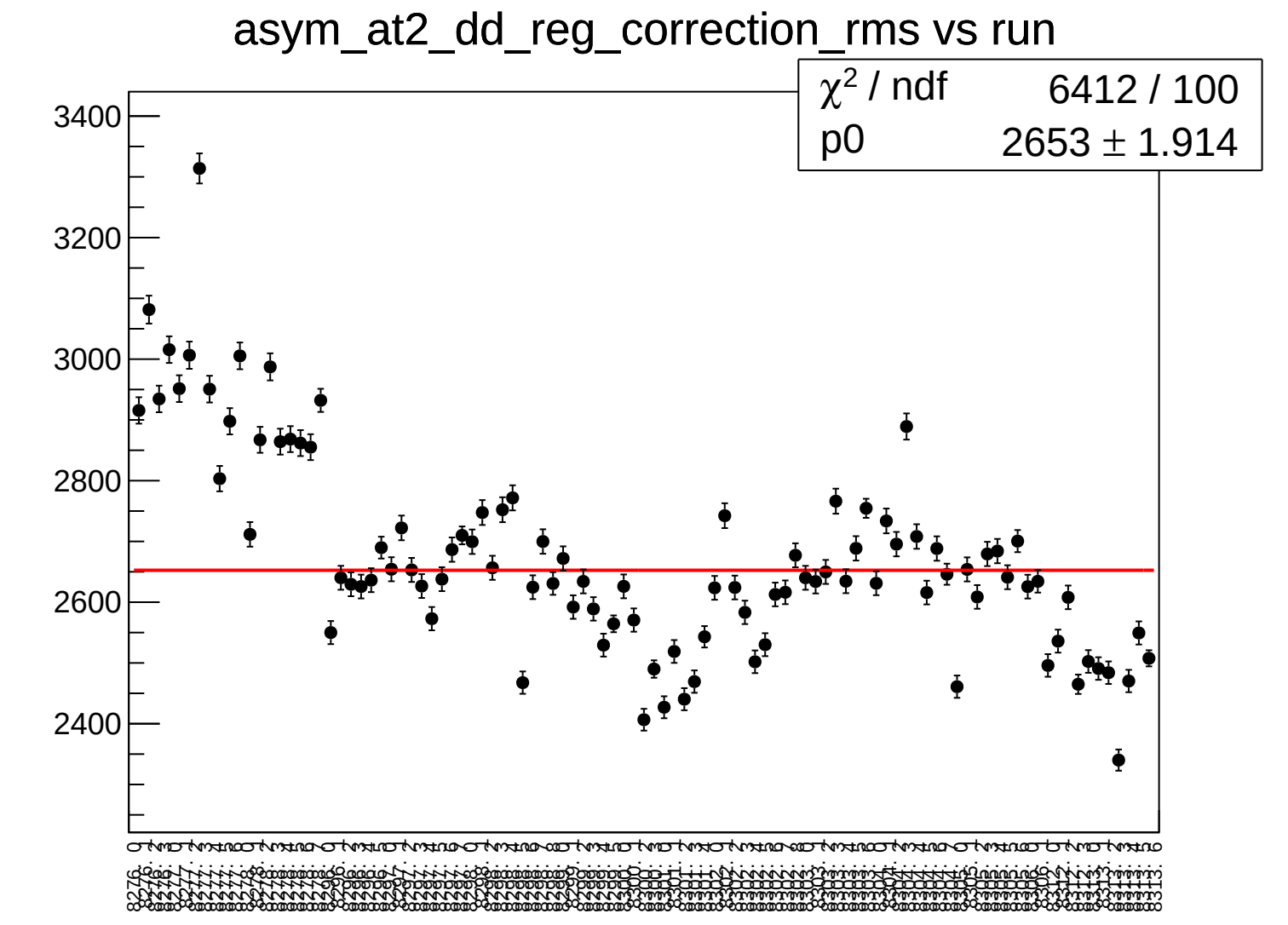

reg_asym_at2_dd_mean vs run
χ² / ndf 103.3 / 100
p0 2209 ± 1809
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 101
Mean 772.7
Std Dev 0
3
2
1
0
−1
−2

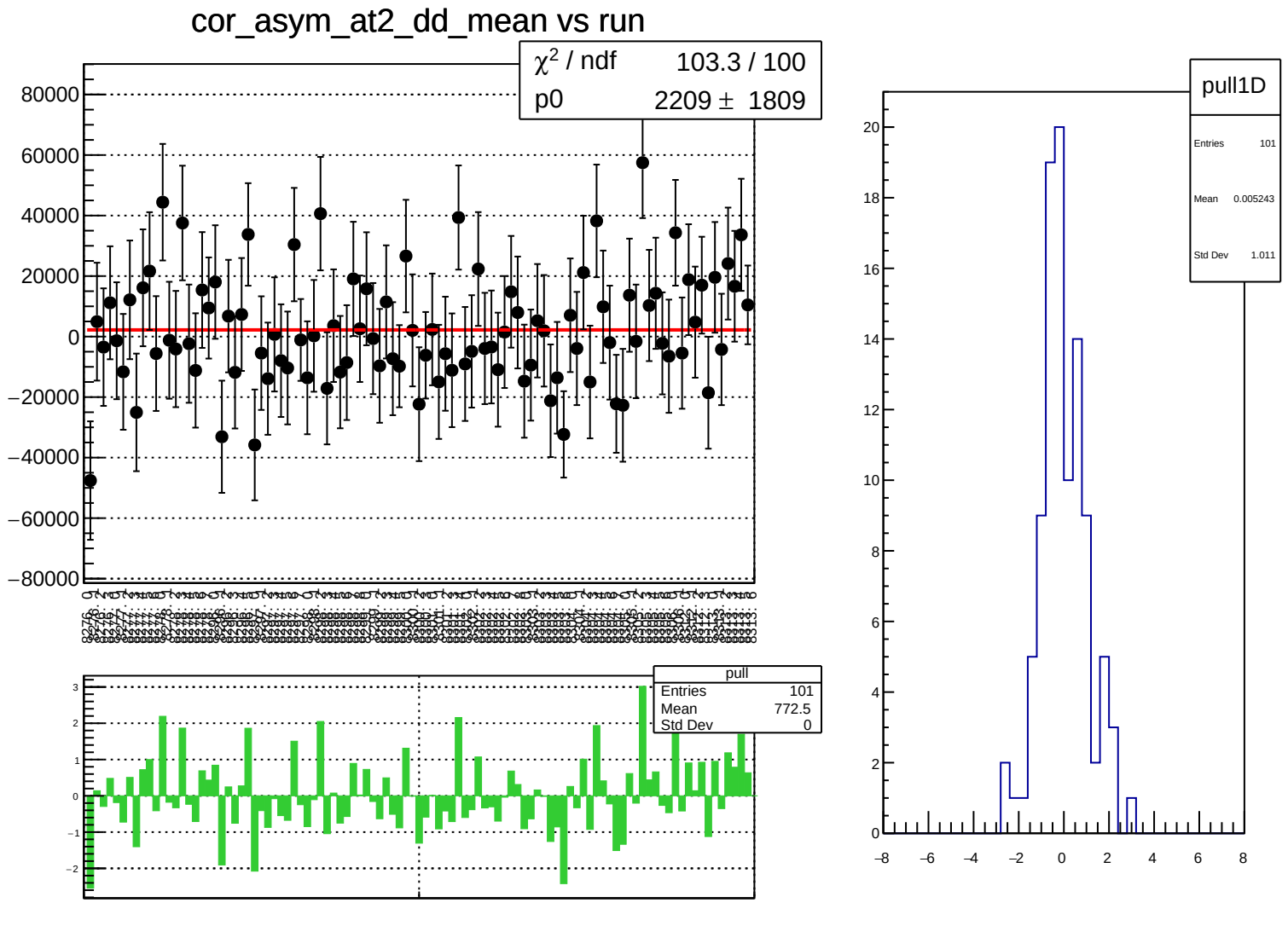

pull1D
Entries 101
Mean 0.005242
Std Dev 1.011
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

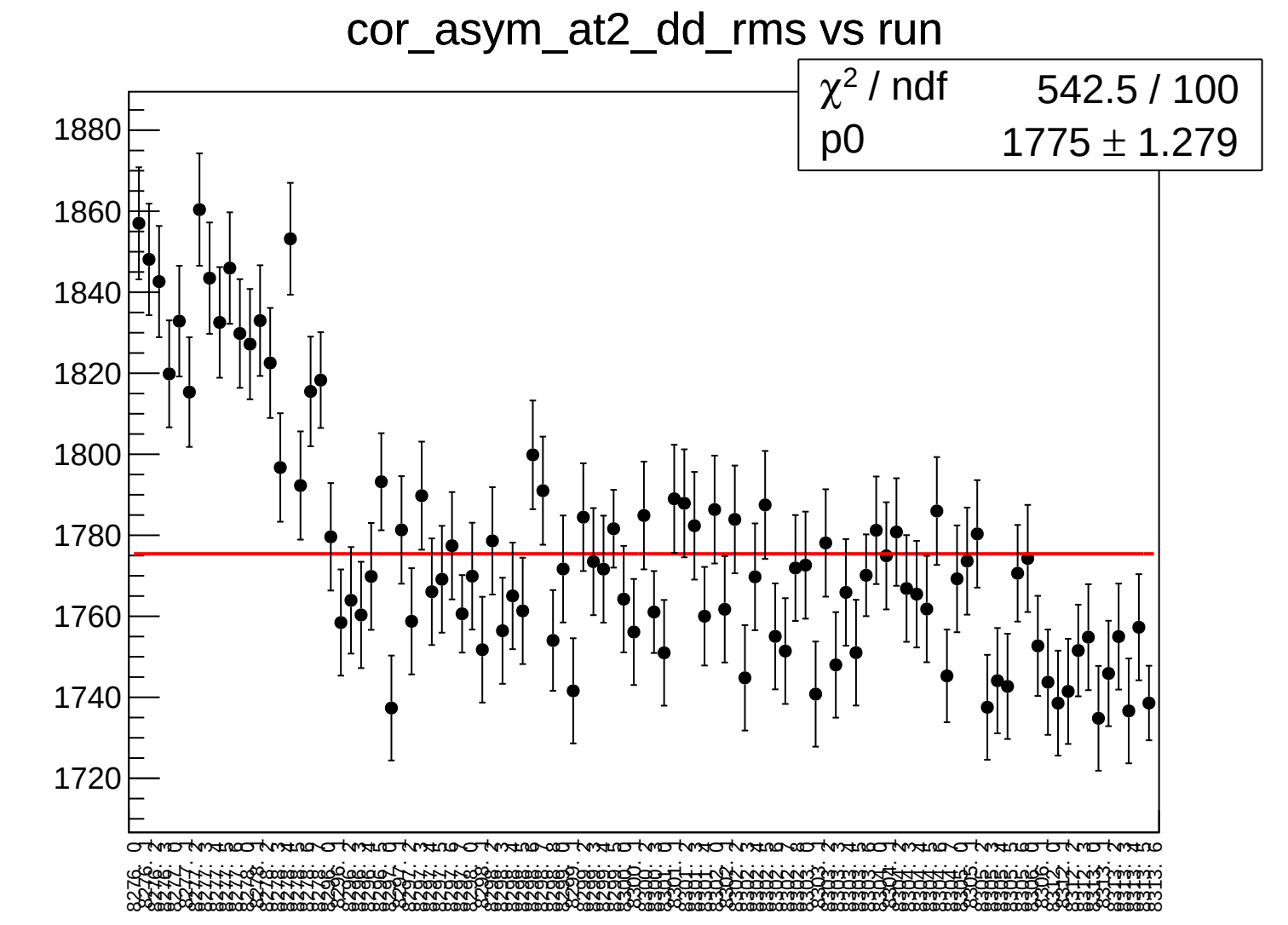

reg_asym_at2_dd_rms vs run
χ^2 / ndf 542.5 / 100
p0 1775 ± 1.279
1880
1860
1840
1820
1800
1780
1760
1740
1720

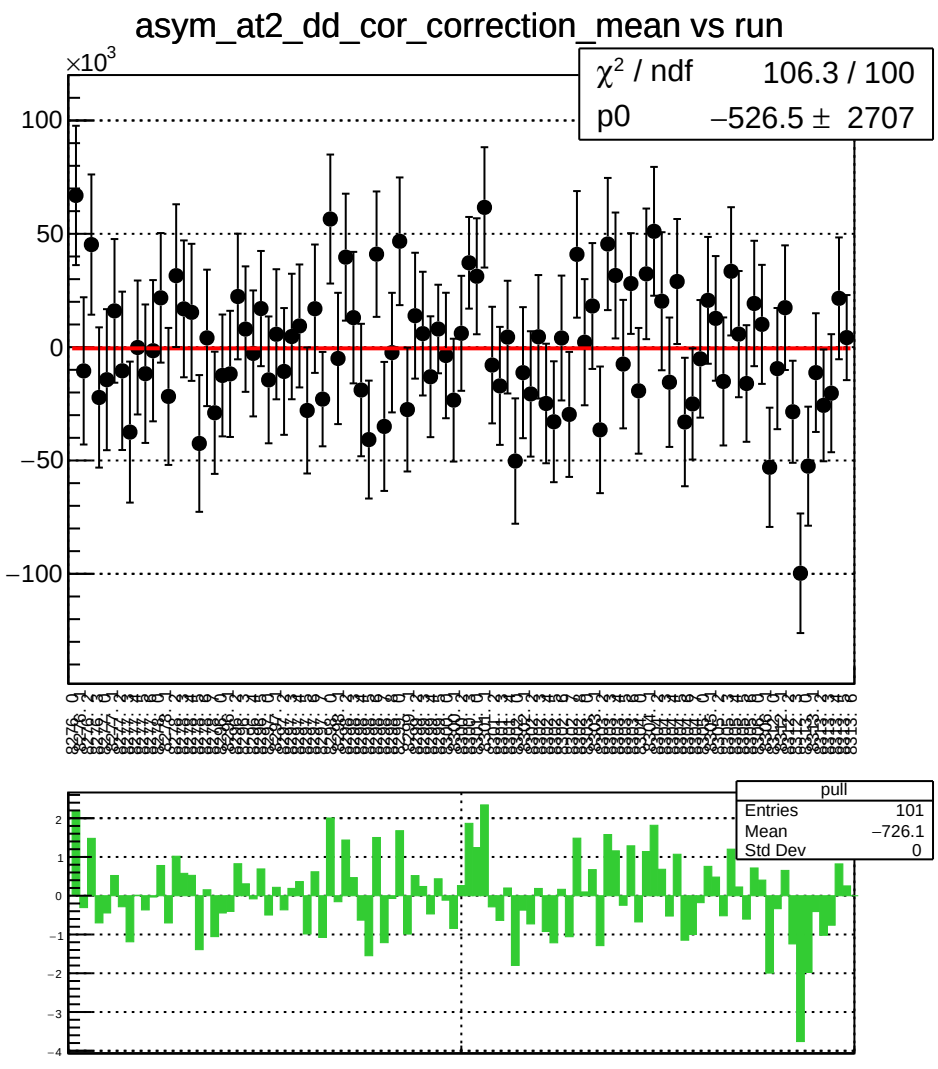

asym_at2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 106.3 / 100
p0 −526.4 ± 2707
100
50
0
−50
−100
pull
Entries 101
Mean −726
Std Dev 0
2
1
0
−1
−2
−3
−4

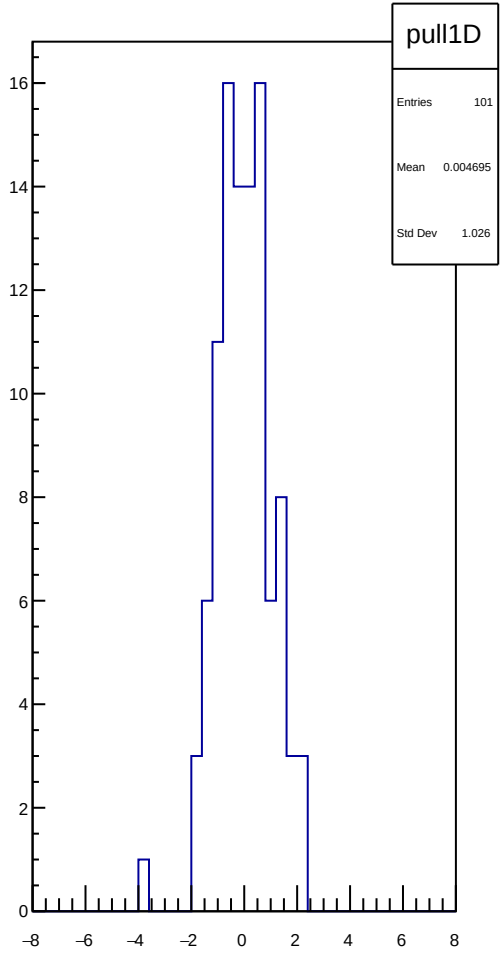

pull1D
Entries 101
Mean 0.004696
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_at2_dd_reg_correction_rms vs run
χ² / ndf 6412 / 100
p0 2653 ± 1.914
3400
3200
3000
2800
2600
2400


cor_asym_at2_dd_mean vs run
χ² / ndf 103.3 / 100
p0 2209 ± 1809
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 101
Mean 772.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.005243
Std Dev 1.011
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_at2_dd_rms vs run
χ² / ndf 542.5 / 100
p0 1775 ± 1.279
1880
1860
1840
1820
1800
1780
1760
1740
1720


asym_at2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 106.3 / 100
p0 −526.5 ± 2707
100
50
0
−50
−100
pull
Entries 101
Mean −726.1
Std Dev 0
2
1
0
−1
−2
−3
−4


pull1D
Entries 101
Mean 0.004695
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
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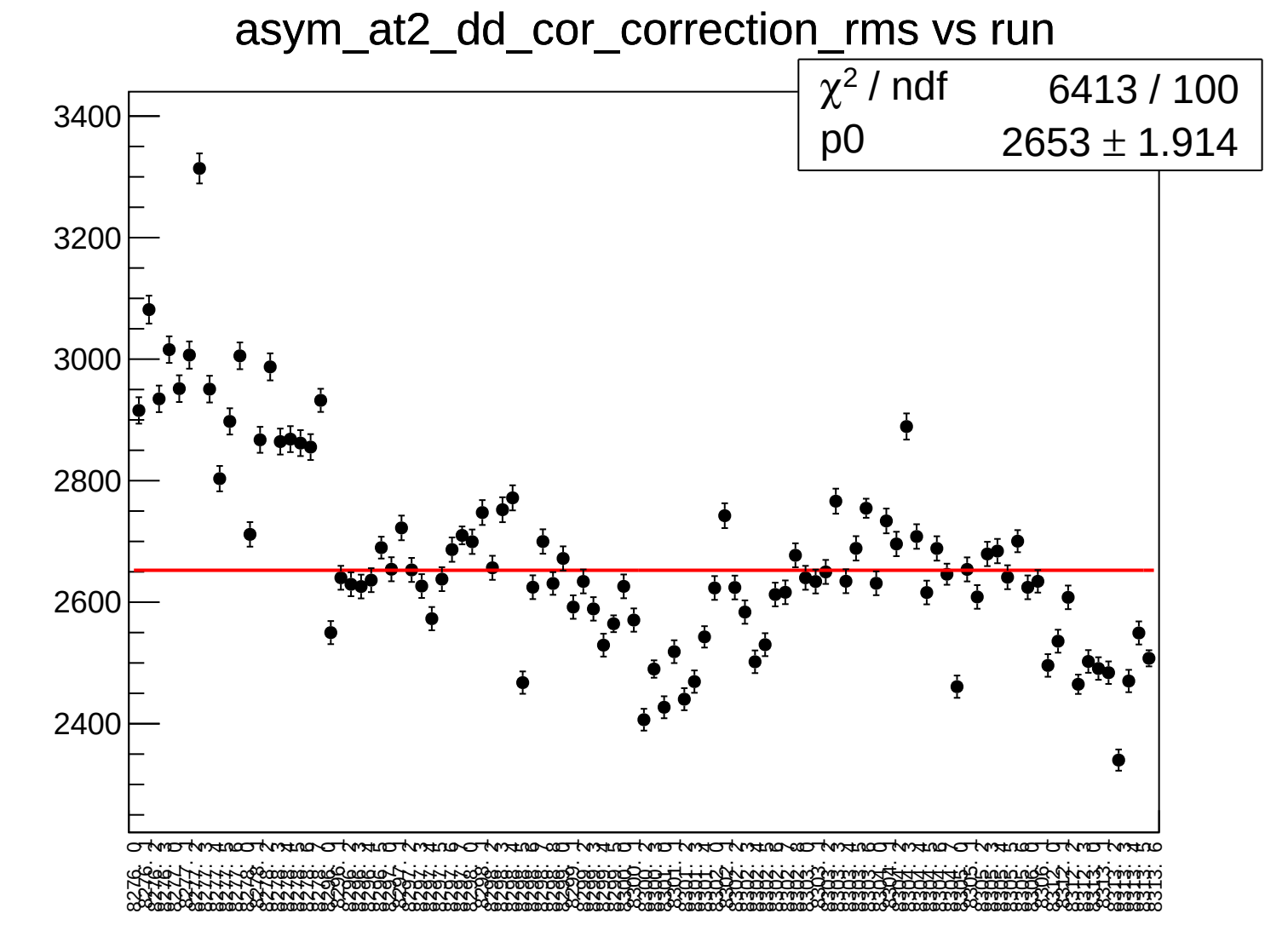
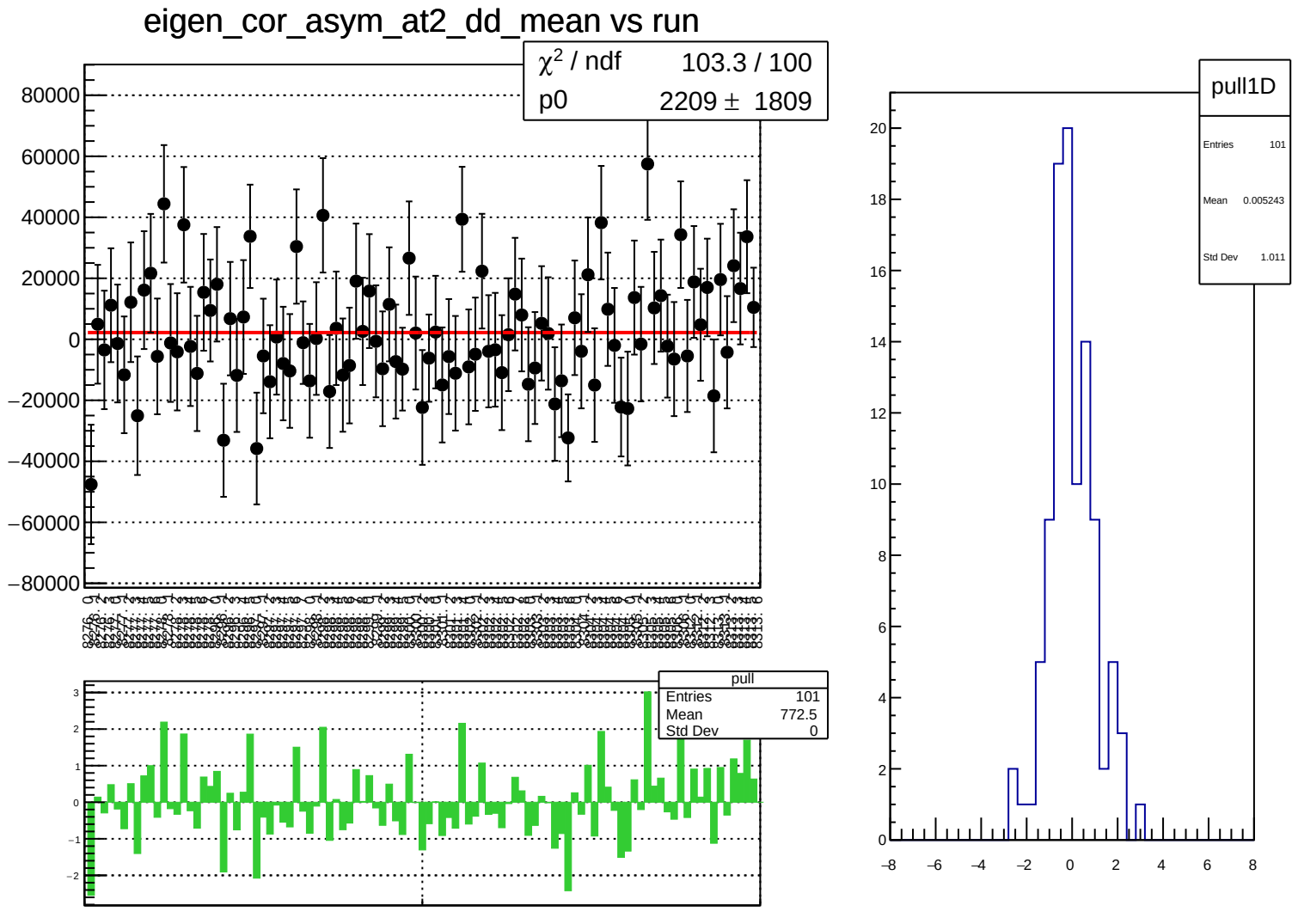
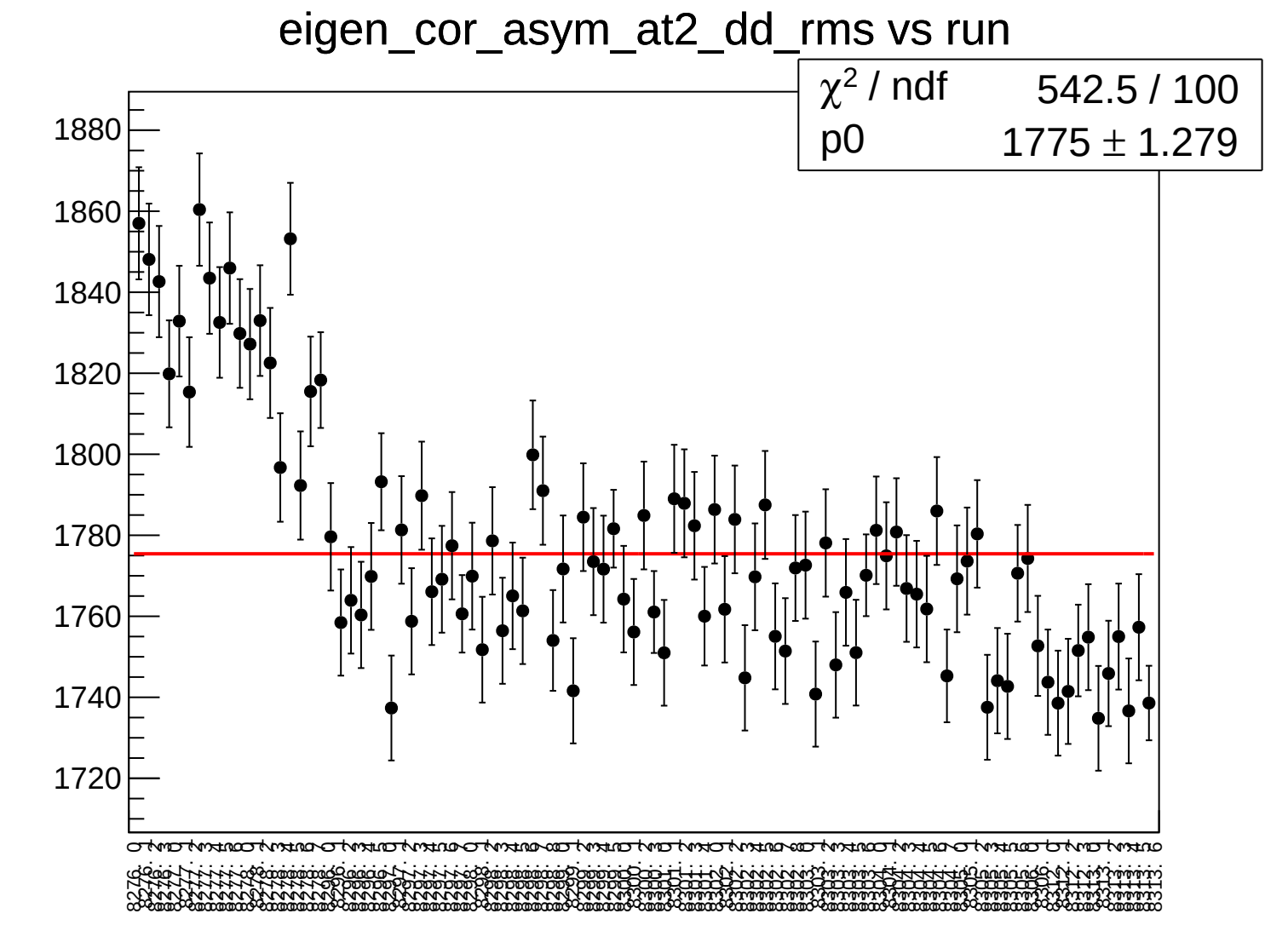
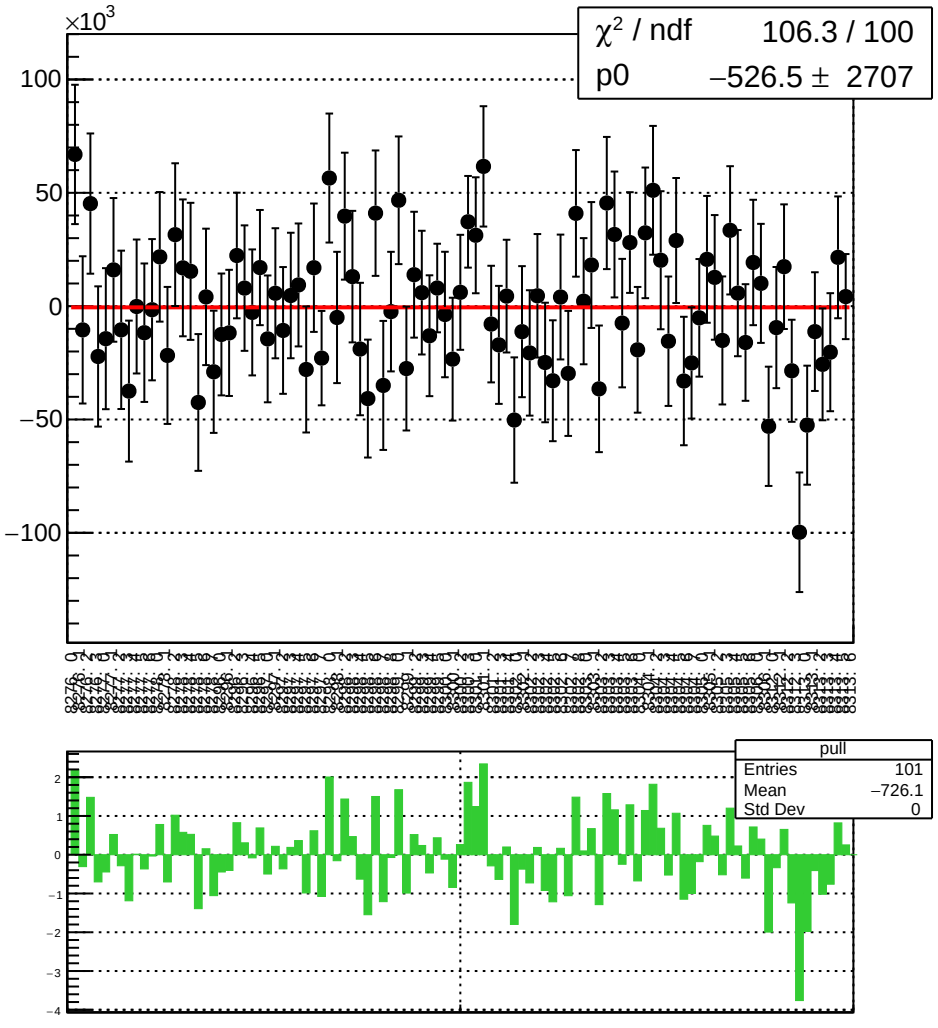
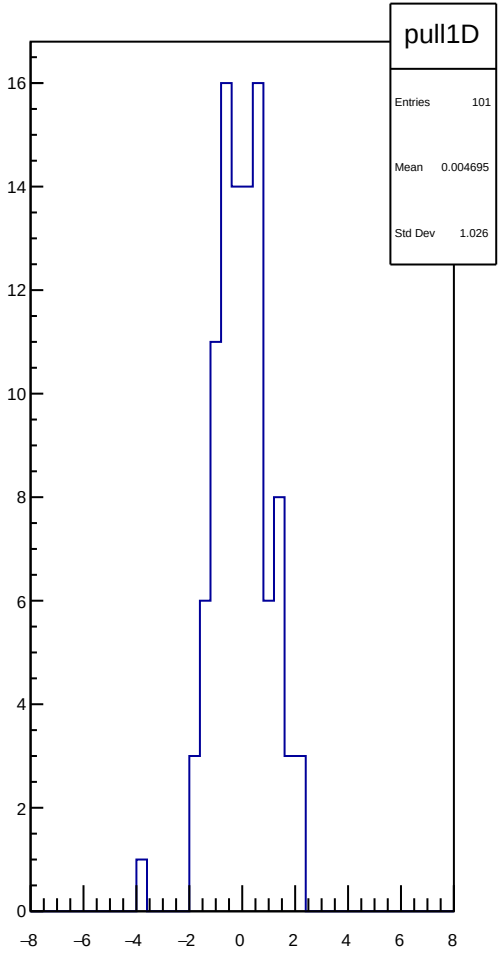
0
2
4
6
8

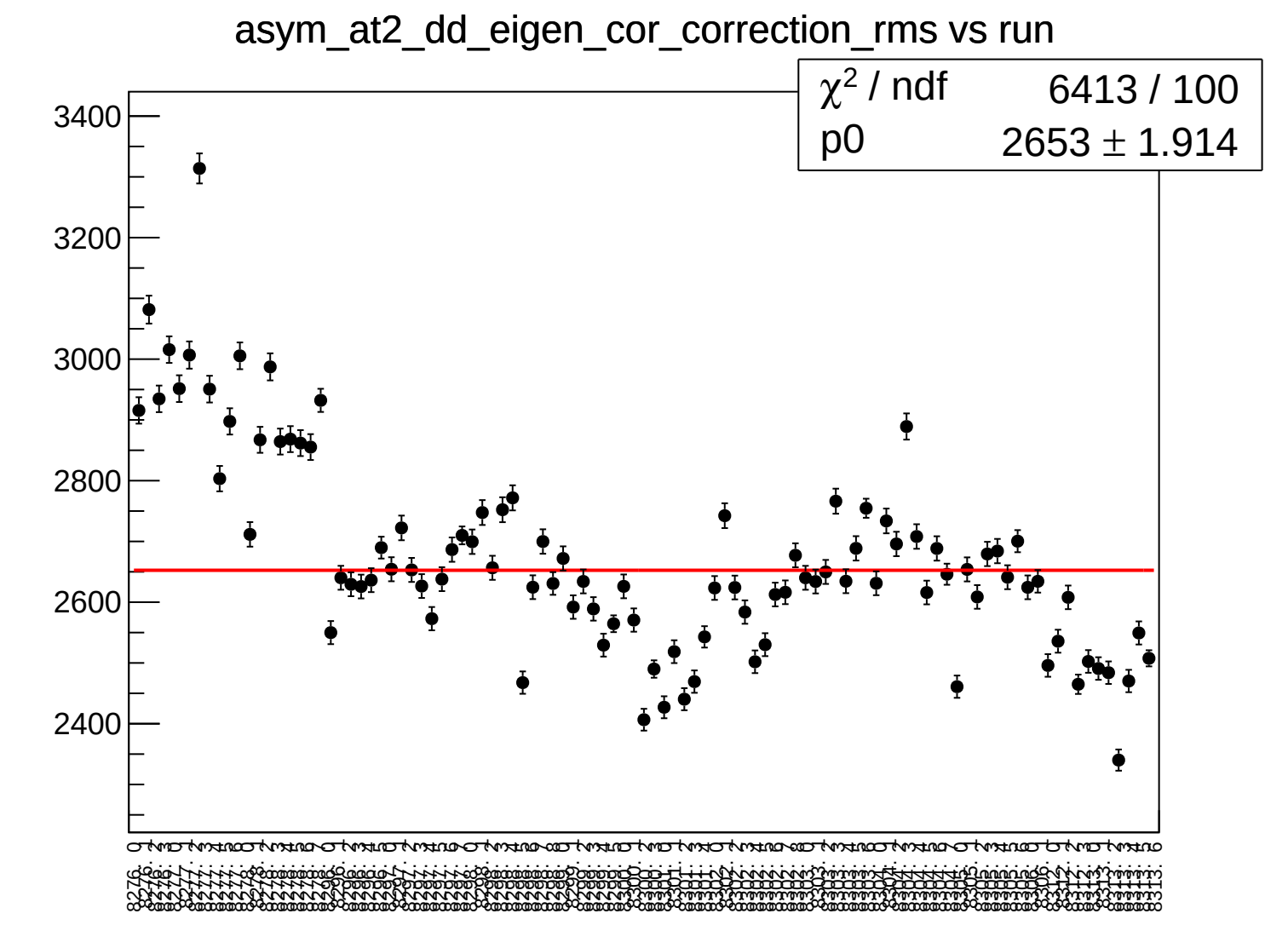

asym_at2_dd_cor_correction_rms vs run
χ² / ndf 6413 / 100
p0 2653 ± 1.914
3400
3200
3000
2800
2600
2400

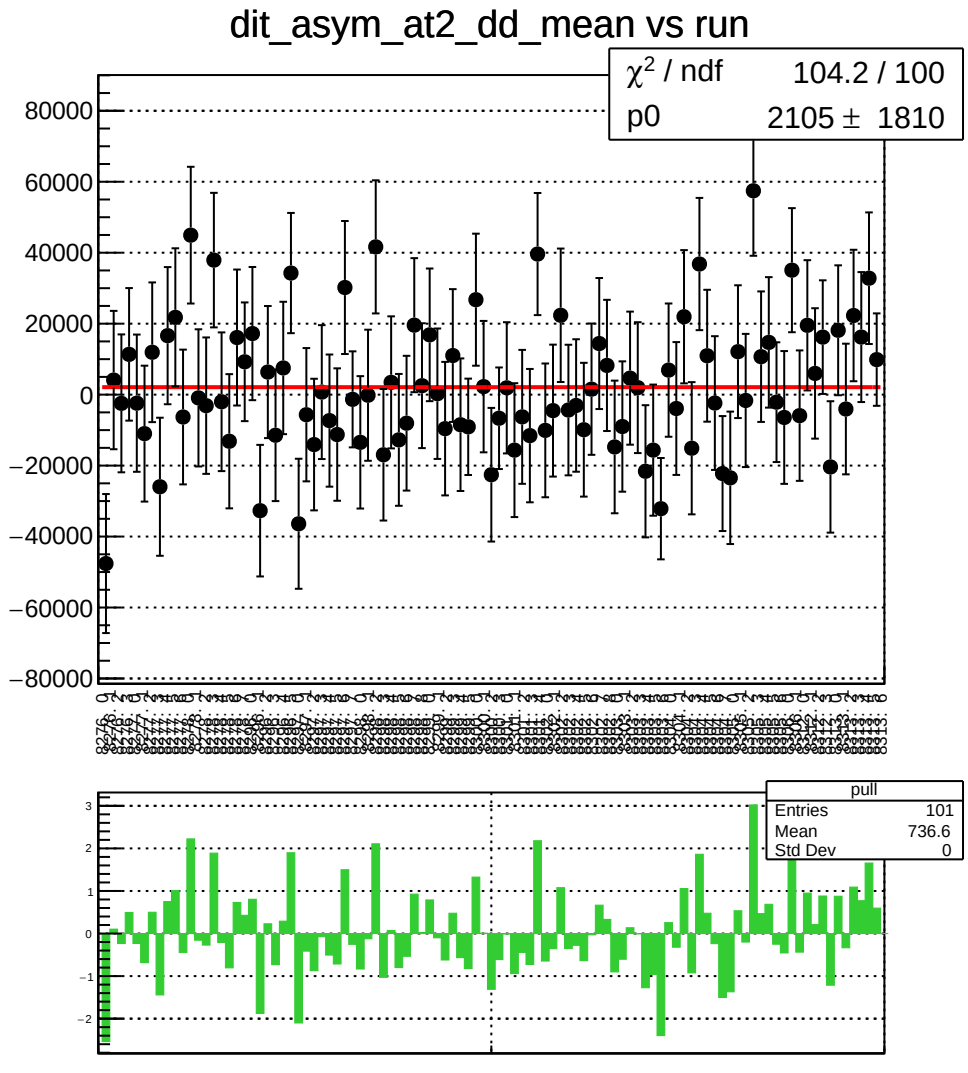

eigen_cor_asym_at2_dd_mean vs run
χ² / ndf 103.3 / 100
p0 2209 ± 1809
pull
Entries 101
Mean 772.5
Std Dev 0
pull1D
Entries 101
Mean 0.005243
Std Dev 1.011

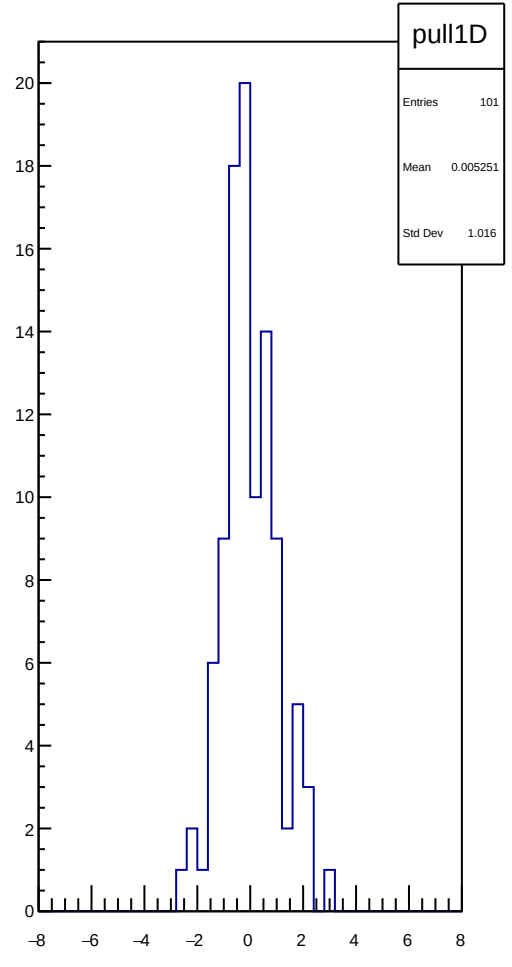

eigen_cor_asym_at2_dd_rms vs run
χ² / ndf 542.5 / 100
p0 1775 ± 1.279
1880
1860
1840
1820
1800
1780
1760
1740
1720

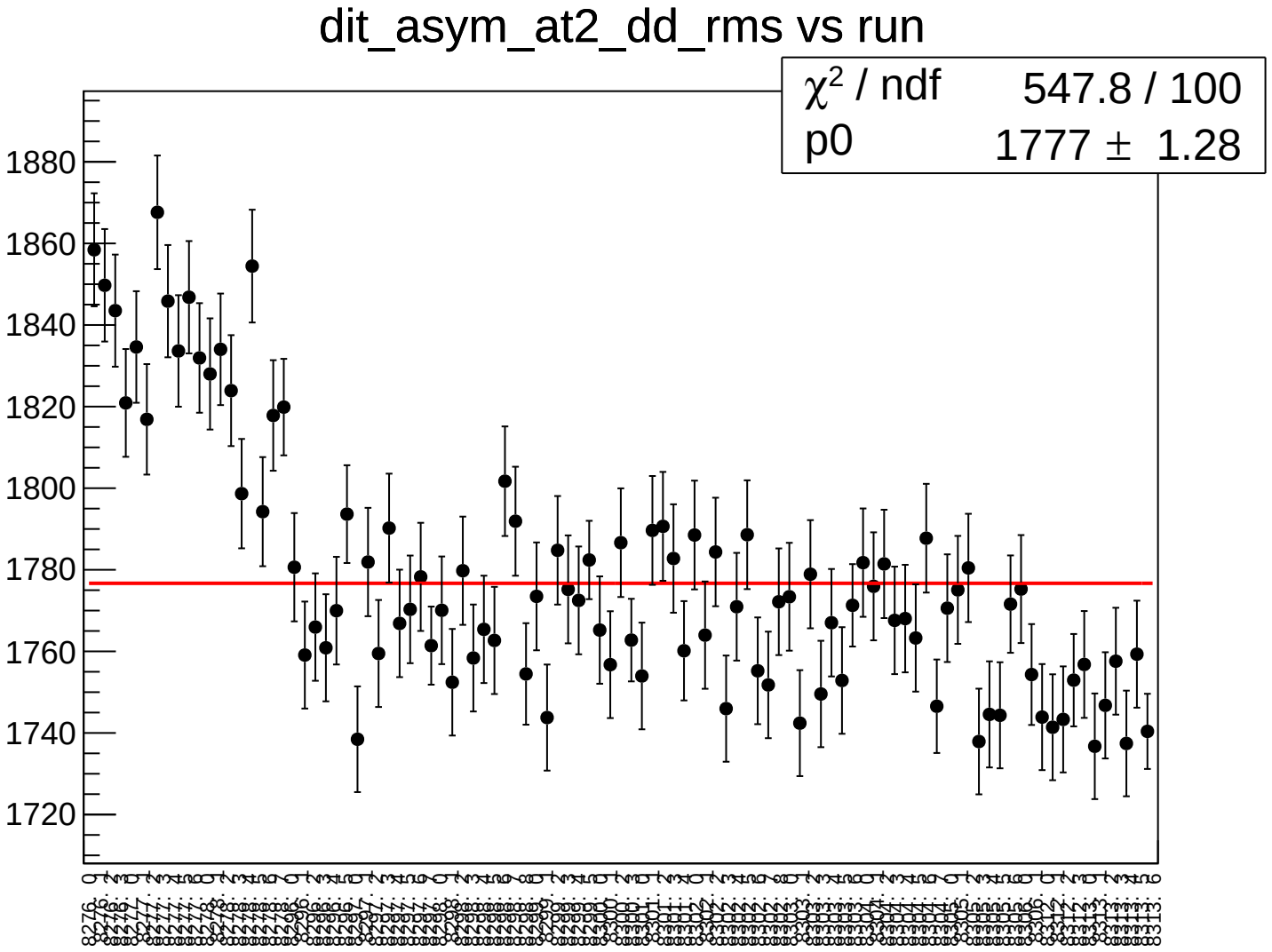

asym_at2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 106.3 / 100
p0 −526.5 ± 2707
100
50
0
−50
−100
pull
Entries 101
Mean −726.1
Std Dev 0
2
1
0
−1
−2
−3
−4

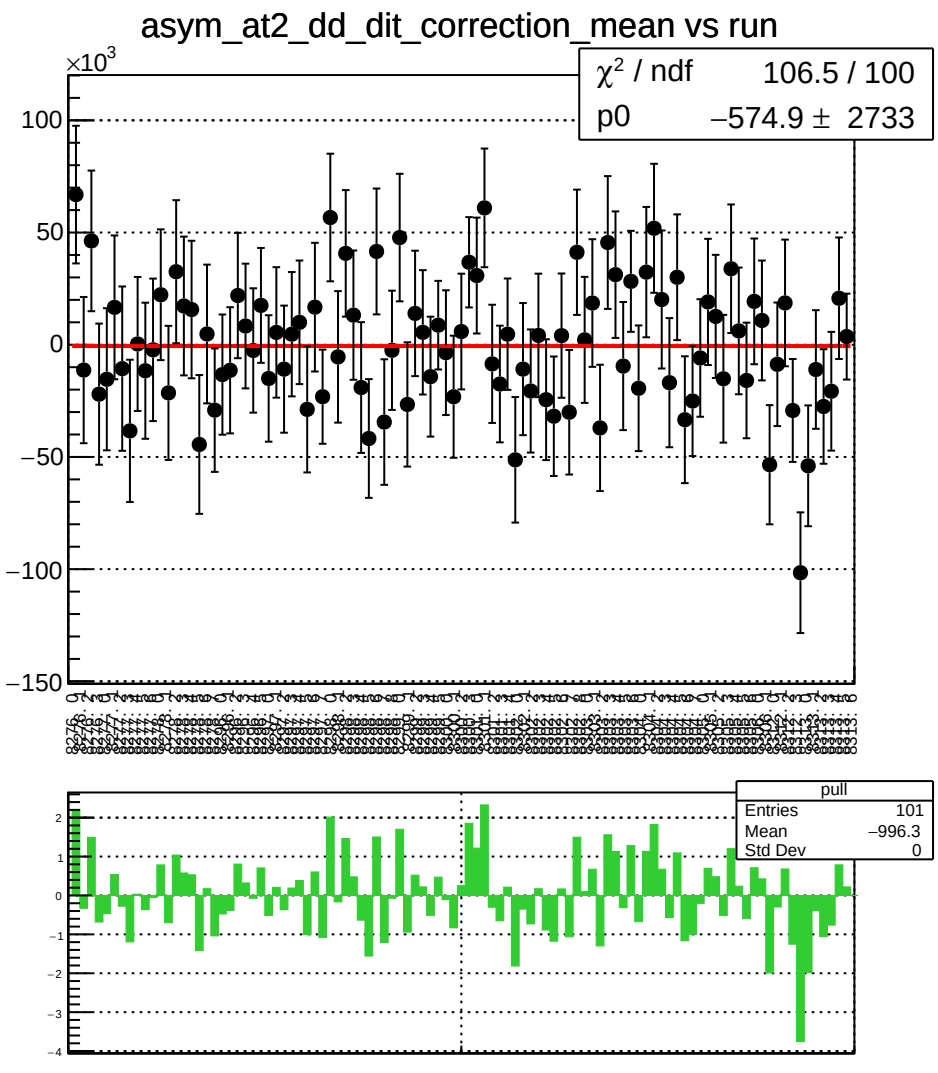

pull1D
Entries 101
Mean 0.004695
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

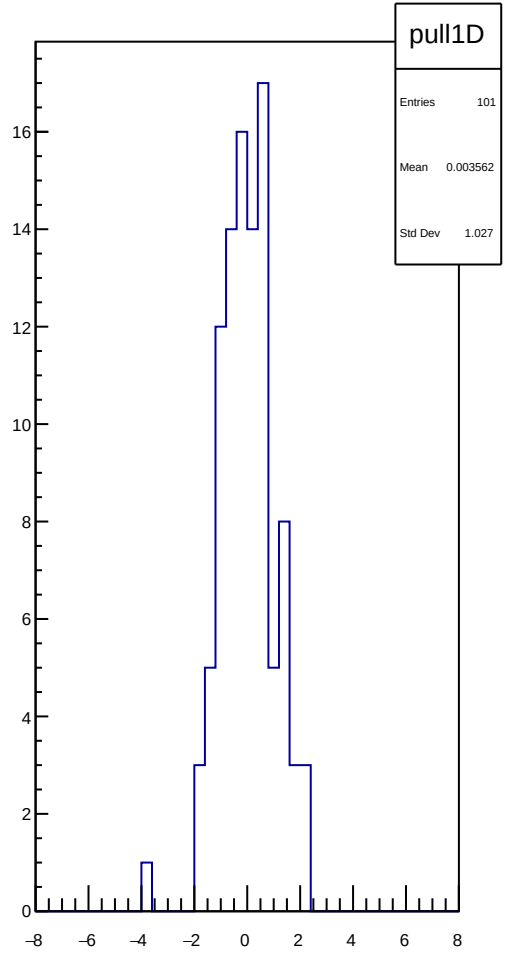

asym_at2_dd_eigen_cor_correction_rms vs run
χ² / ndf 6413 / 100
p0 2653 ± 1.914
3400
3200
3000
2800
2600
2400

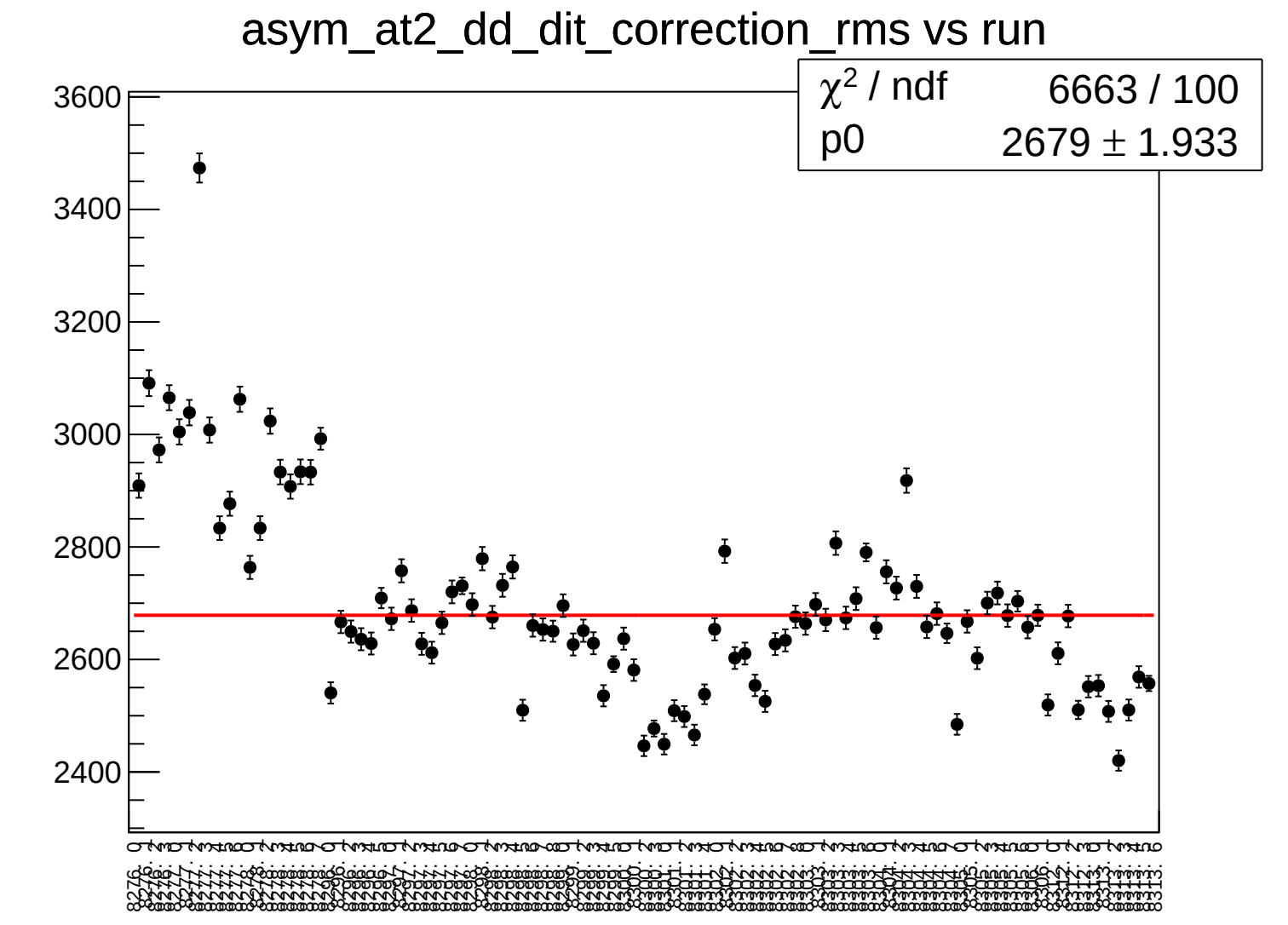

dit_asym_at2_dd_mean vs run
χ² / ndf 104.2 / 100
p0 2105 ± 1810
pull
Entries 101
Mean 736.6
Std Dev 0

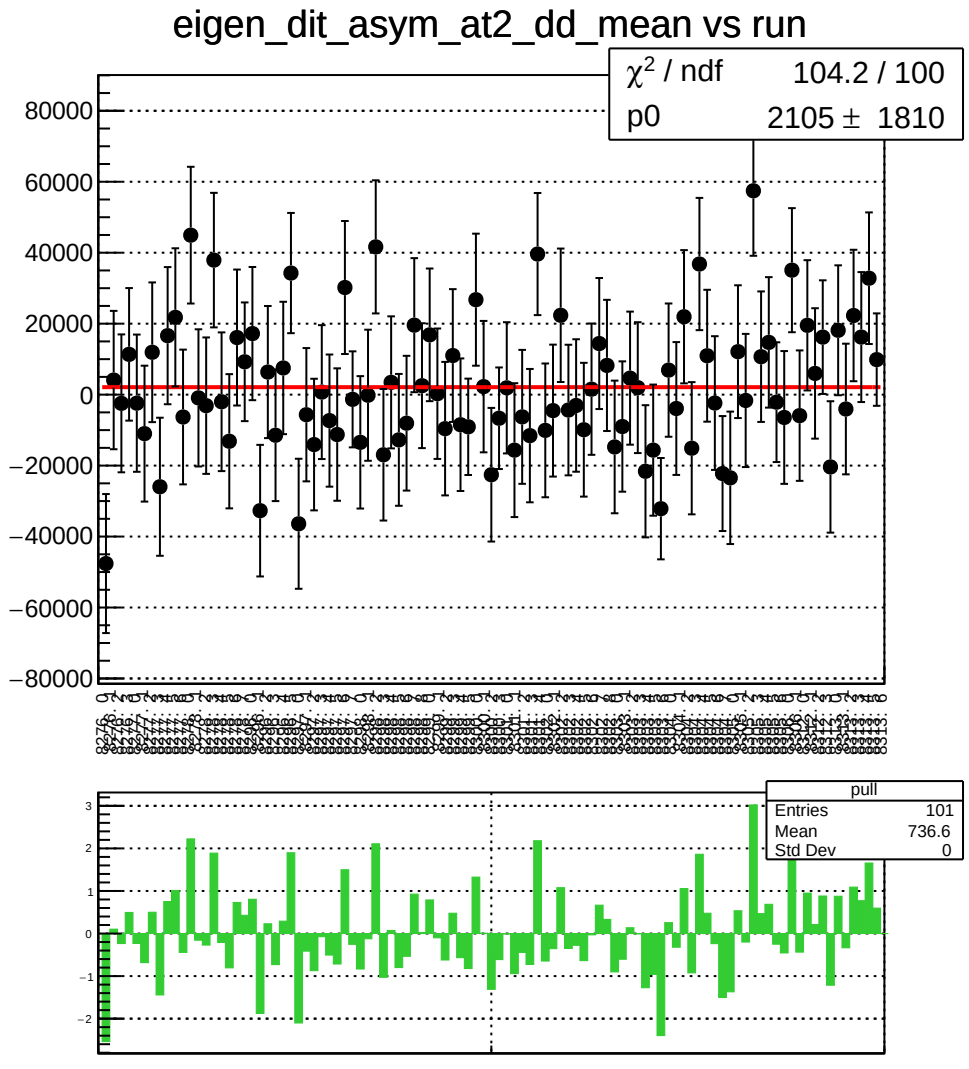

pull1D
Entries 101
Mean 0.005251
Std Dev 1.016

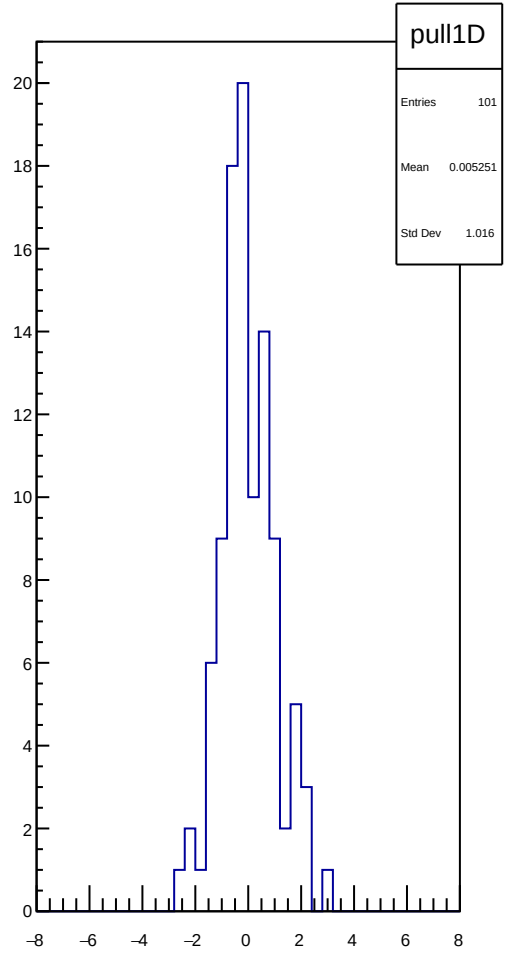

dit_asym_at2_dd_rms vs run
χ² / ndf 547.8 / 100
p0 1777 ± 1.28
1880
1860
1840
1820
1800
1780
1760
1740
1720

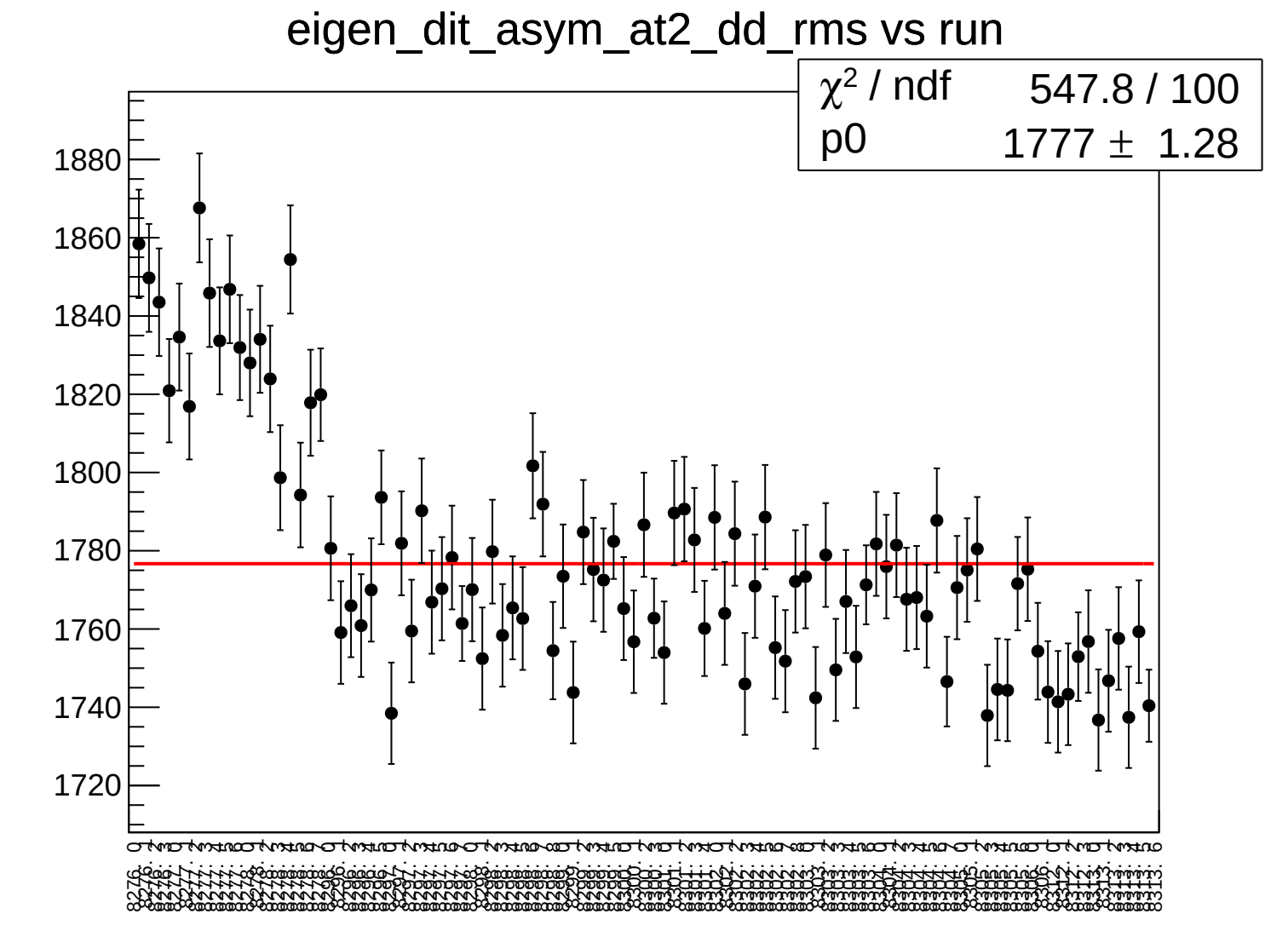

asym_at2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 106.5 / 100
p0 −574.9 ± 2733
100
50
0
−50
−100
−150
pull
Entries 101
Mean −996.3
Std Dev 0
2
1
0
−1
−2
−3
−4

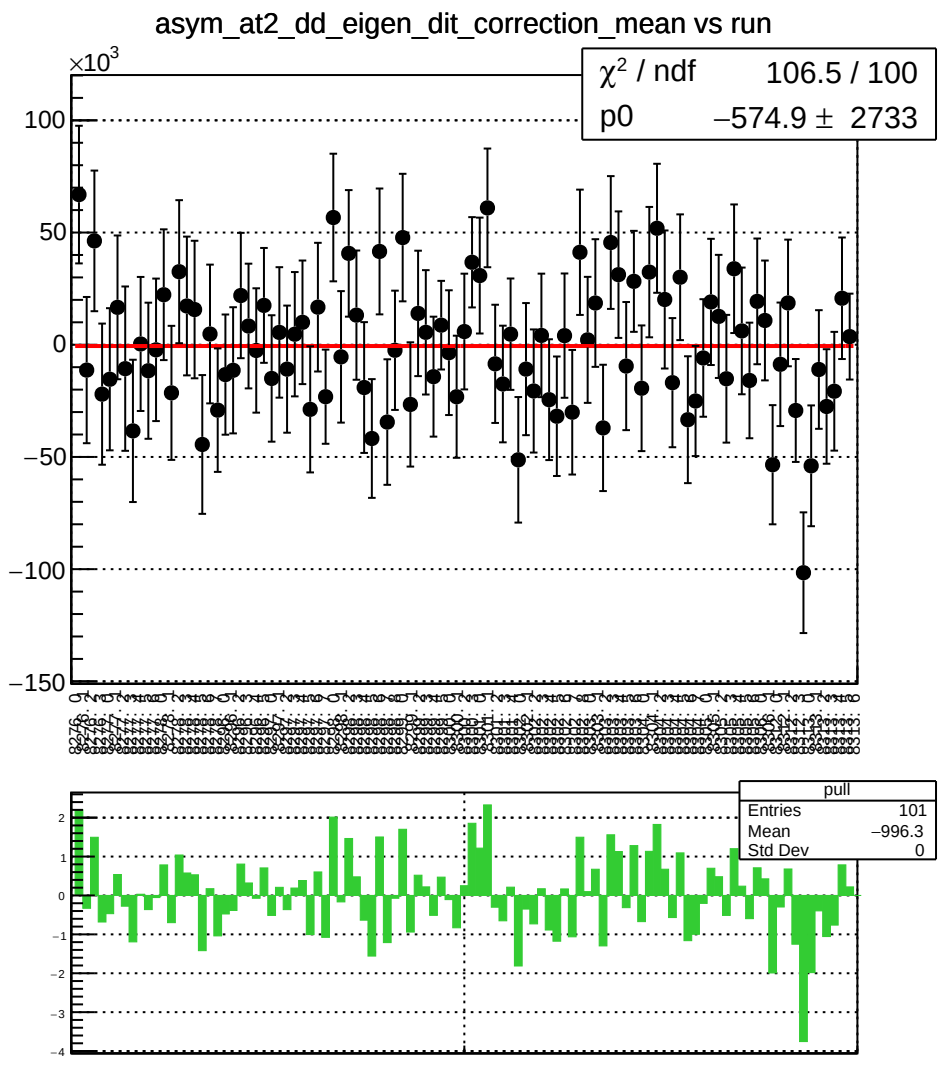

pull1D
Entries 101
Mean 0.003562
Std Dev 1.027
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

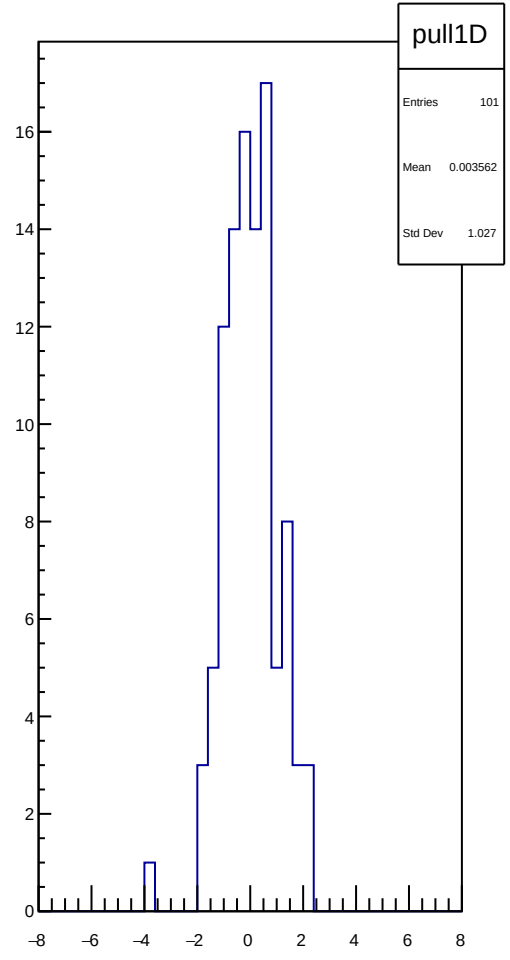

asym_at2_dd_dit_correction_rms vs run
χ² / ndf 6663 / 100
p0 2679 ± 1.933
3600
3400
3200
3000
2800
2600
2400

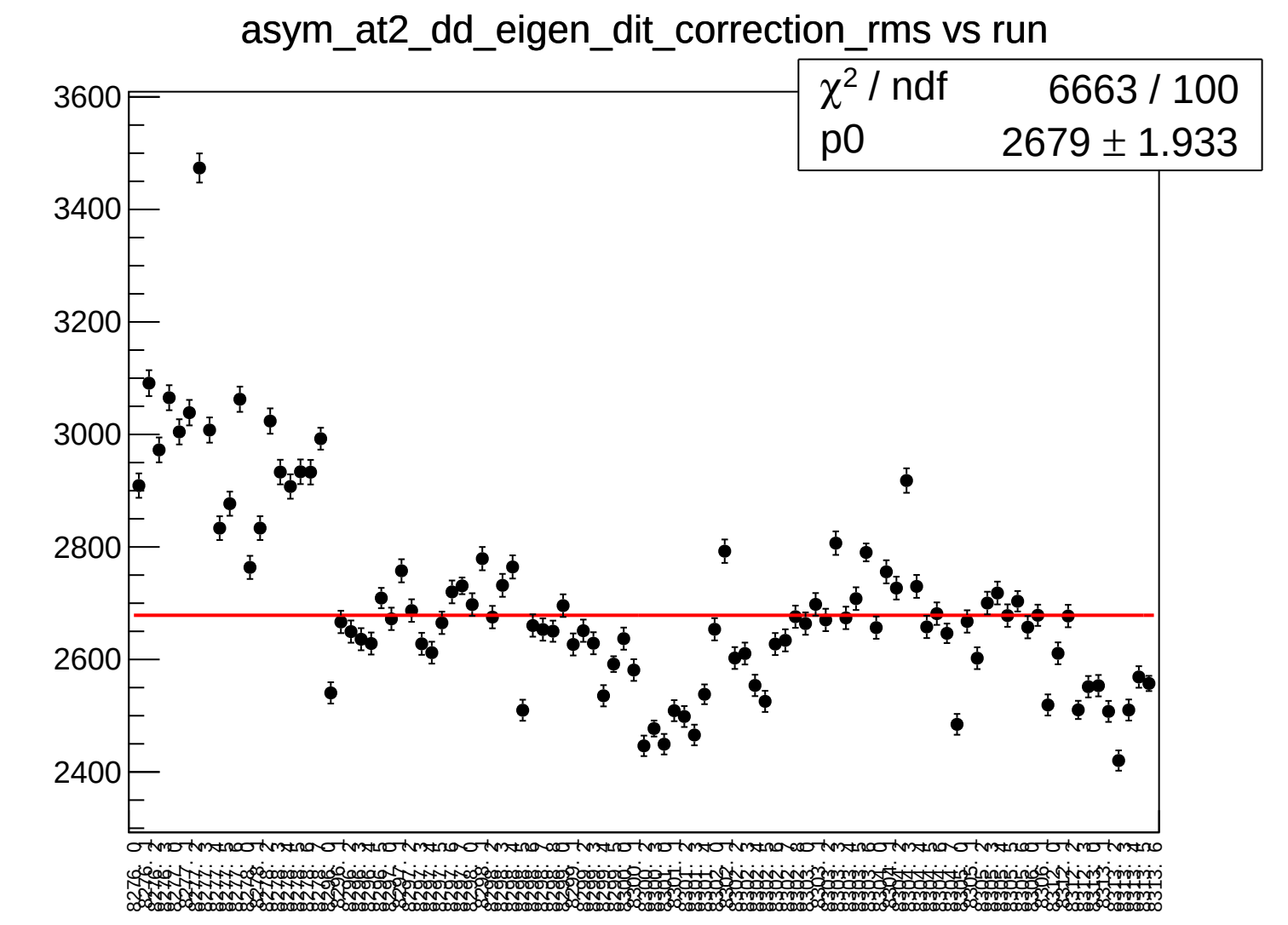

eigen_dit_asym_at2_dd_mean vs run
χ² / ndf 104.2 / 100
p0 2105 ± 1810
pull
Entries 101
Mean 736.6
Std Dev 0

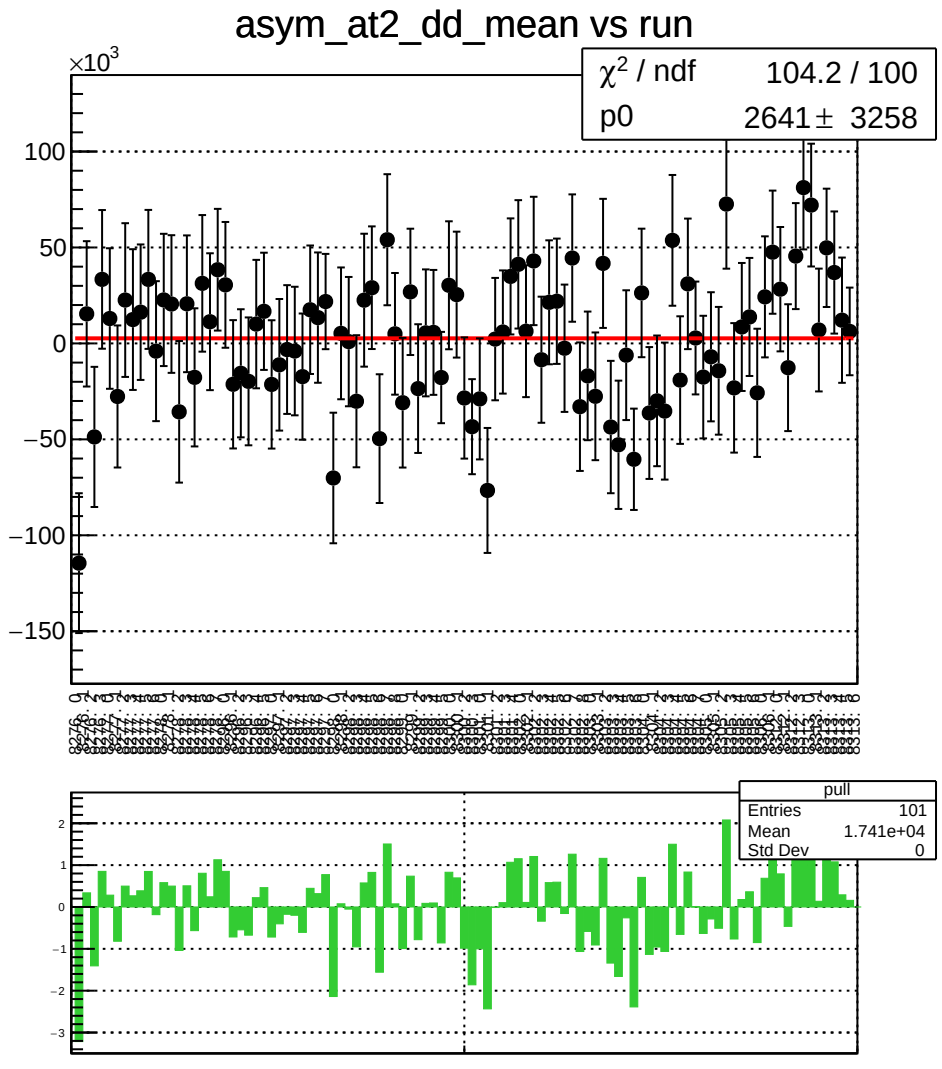

pull1D
Entries 101
Mean 0.005251
Std Dev 1.016

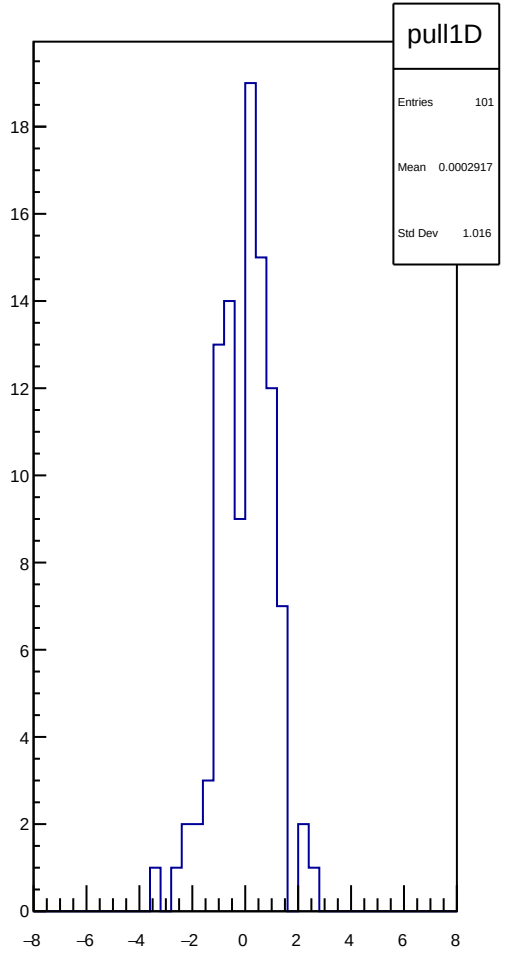

eigen_dit_asym_at2_dd_rms vs run
χ² / ndf 547.8 / 100
p0 1777 ± 1.28
1880
1860
1840
1820
1800
1780
1760
1740
1720


asym_at2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 106.5 / 100
p0 −574.9 ± 2733
pull
Entries 101
Mean −996.3
Std Dev 0


pull1D
Entries 101
Mean 0.003562
Std Dev 1.027


asym_at2_dd_eigen_dit_correction_rms vs run
χ² / ndf 6663 / 100
p0 2679 ± 1.933
3600
3400
3200
3000
2800
2600
2400


asym_at2_dd_mean vs run
×10^3
χ^2 / ndf 104.2 / 100
p0 2641 ± 3258
100
50
0
−50
−100
−150
pull
Entries 101
Mean 1.741e+04
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 101
Mean 0.0002917
Std Dev 1.016
18
16
14
12
10
8
6
4
2
0
−8
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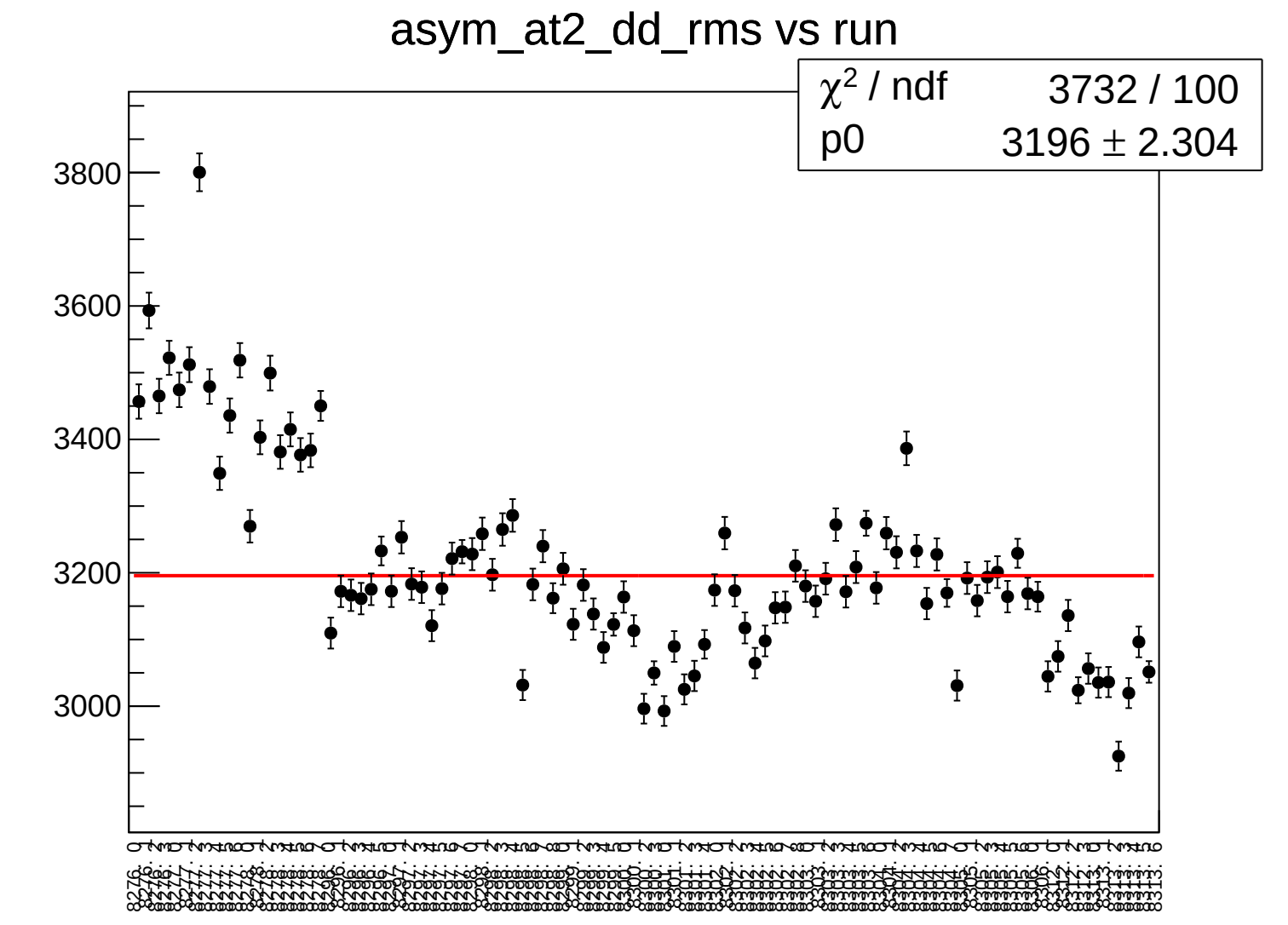
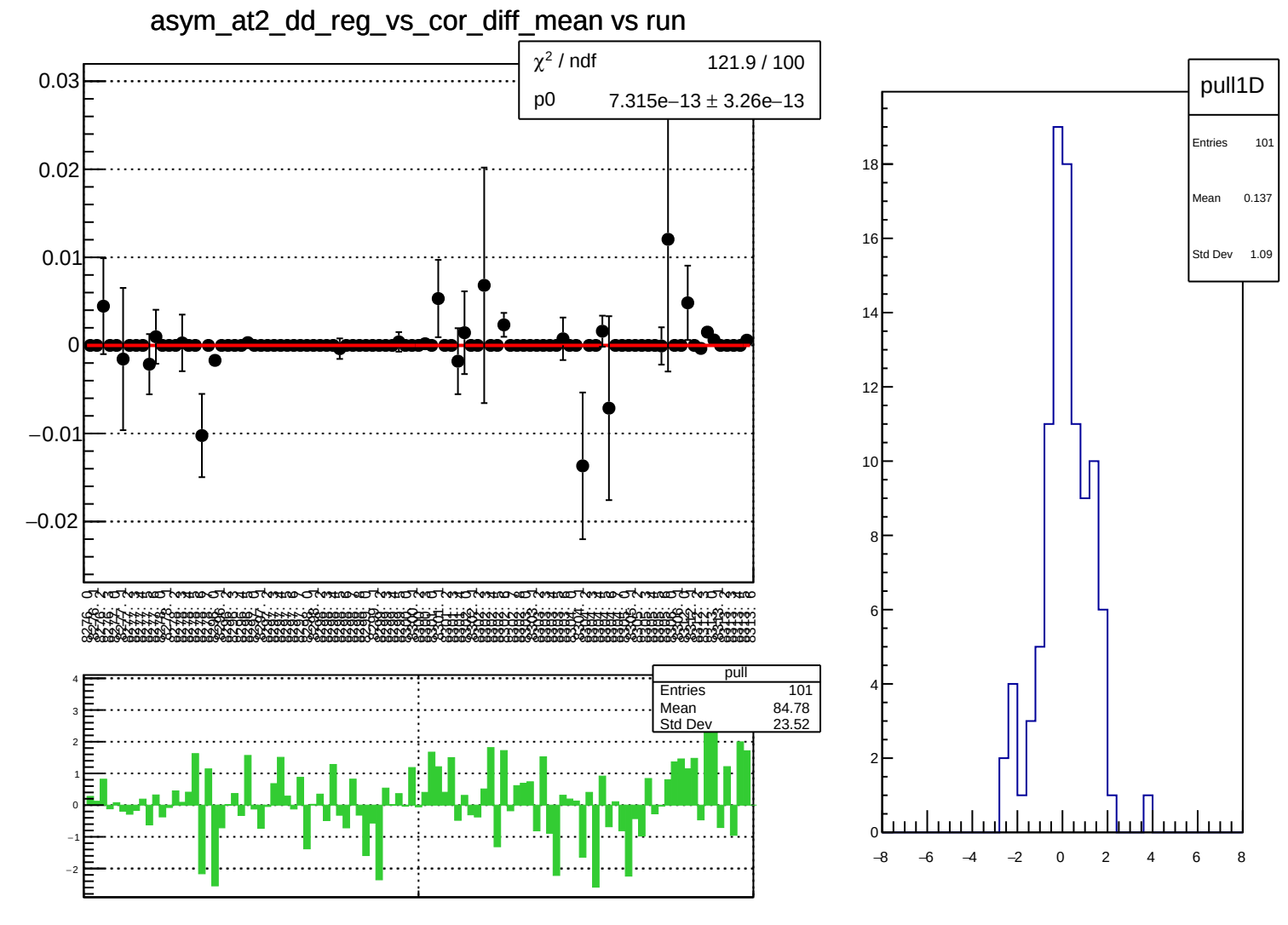
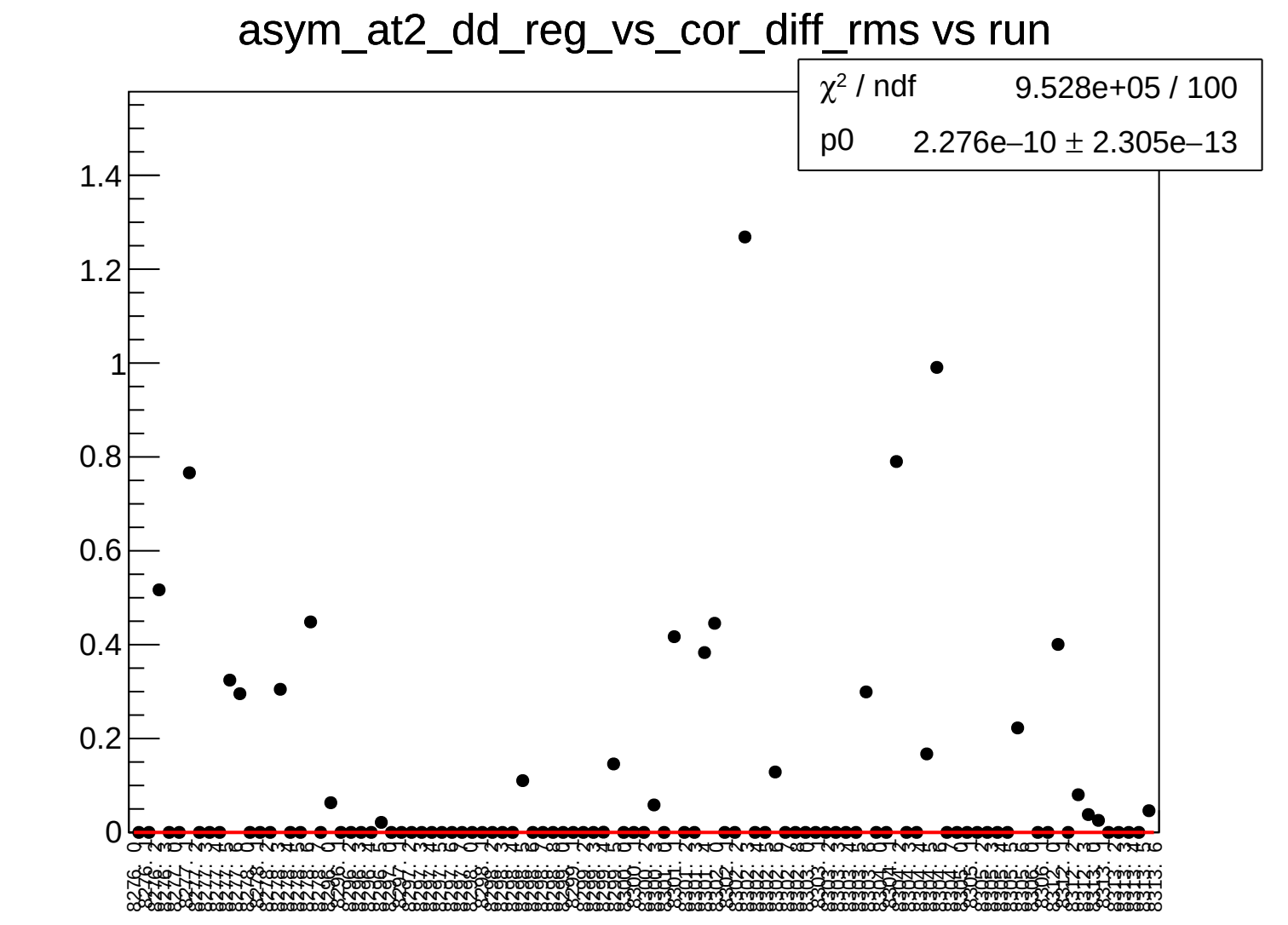
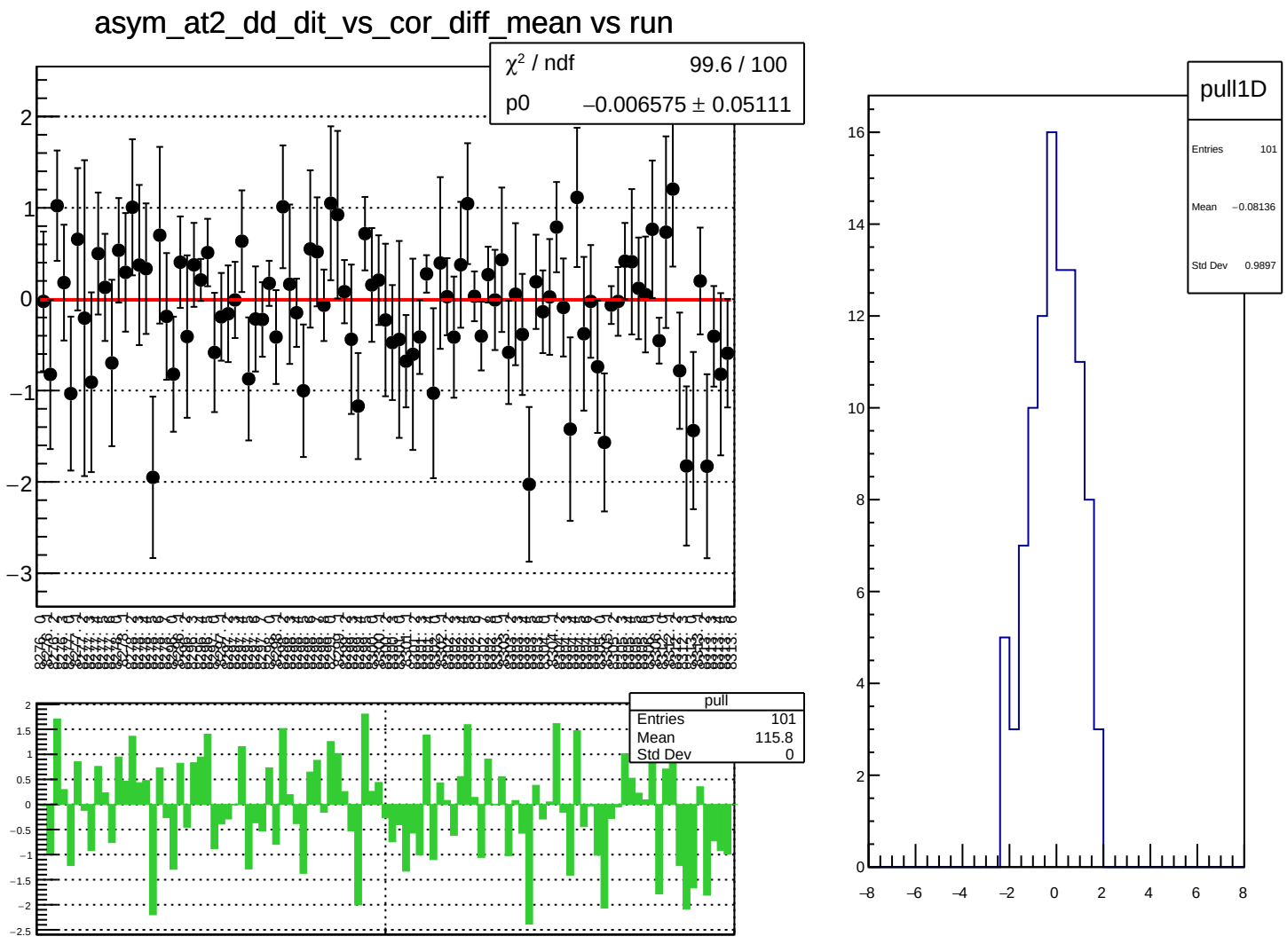
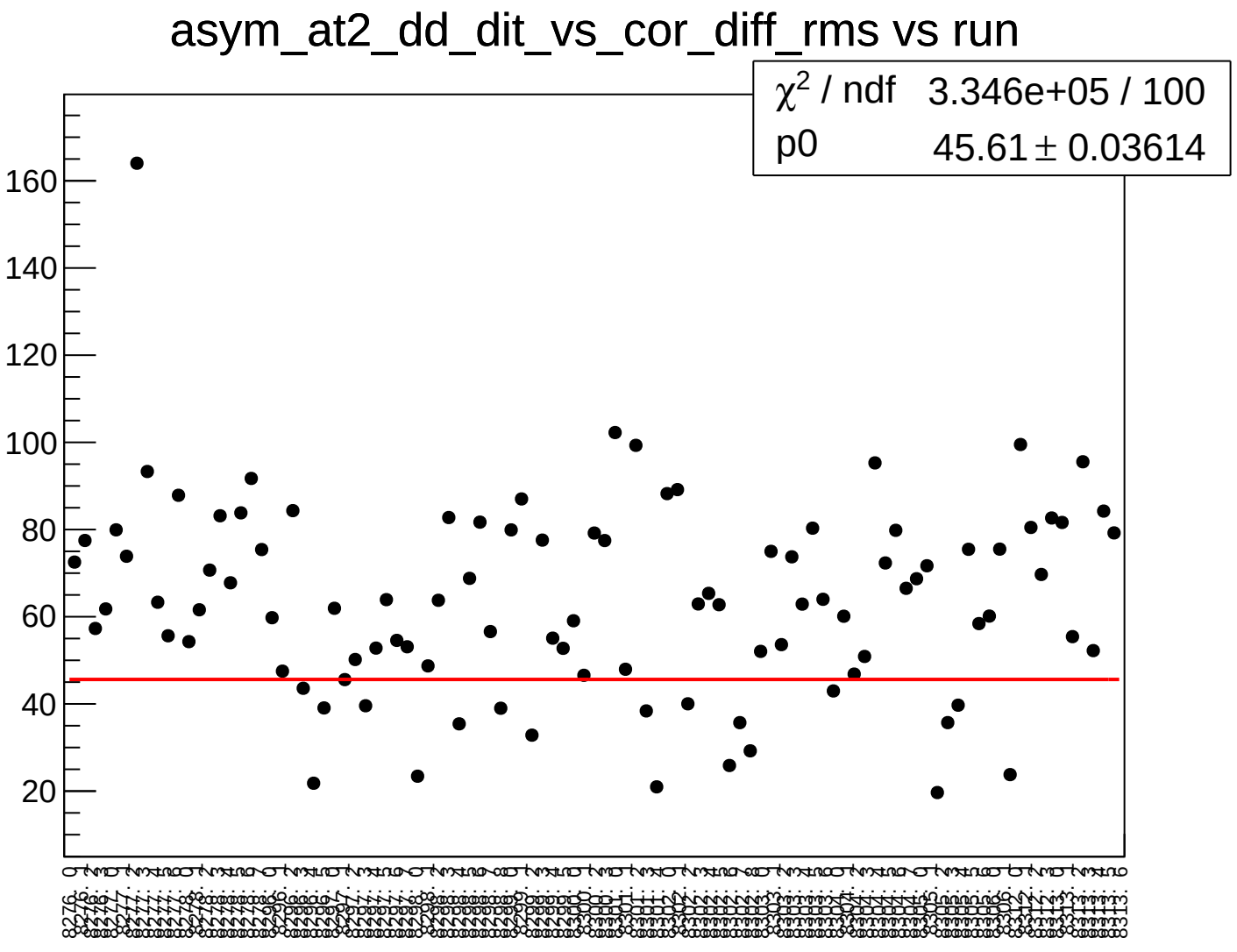
0
2
4
6
8

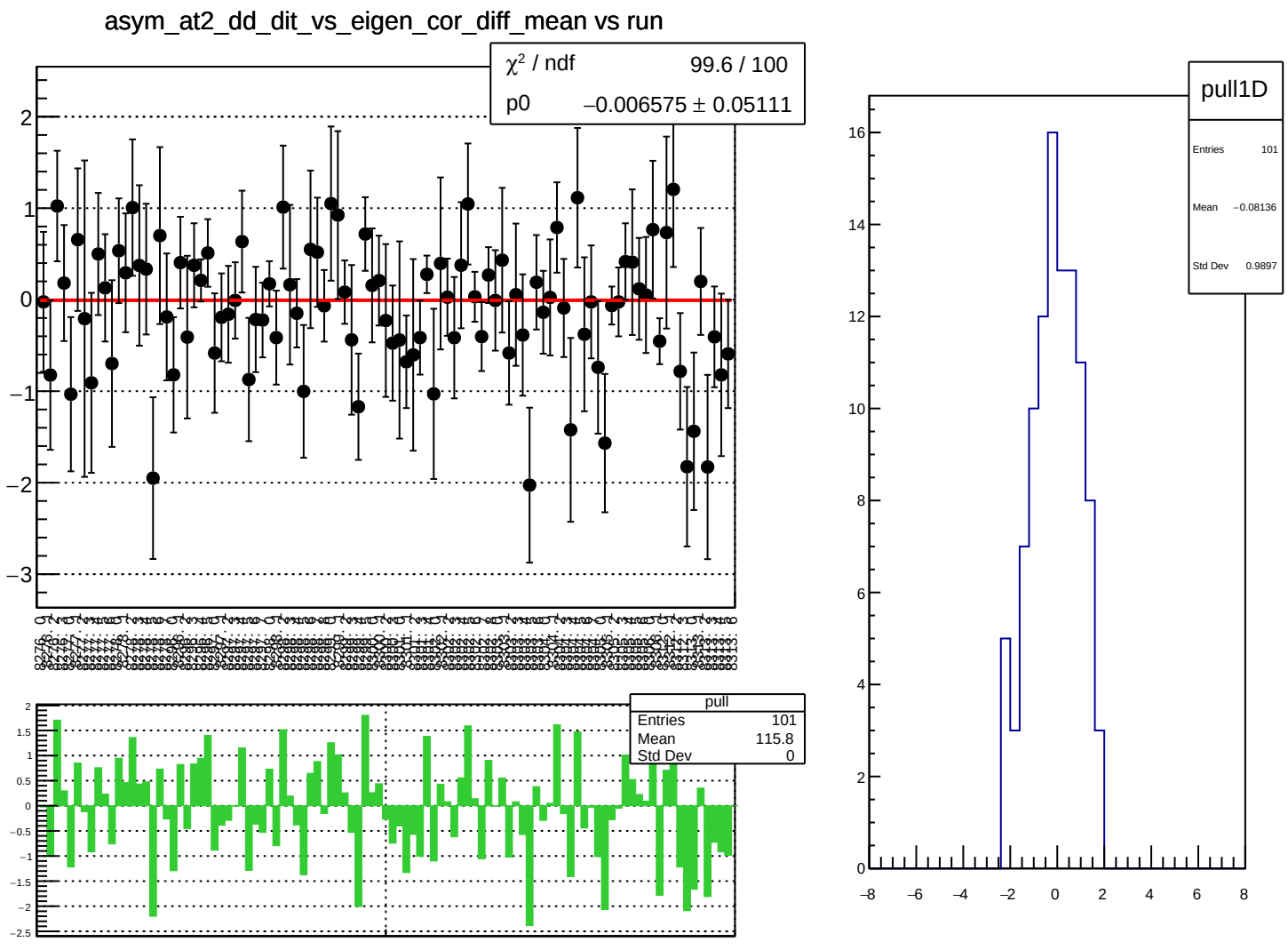

asym_at2_dd_rms vs run
χ² / ndf 3732 / 100
p0 3196 ± 2.304
3800
3600
3400
3200
3000

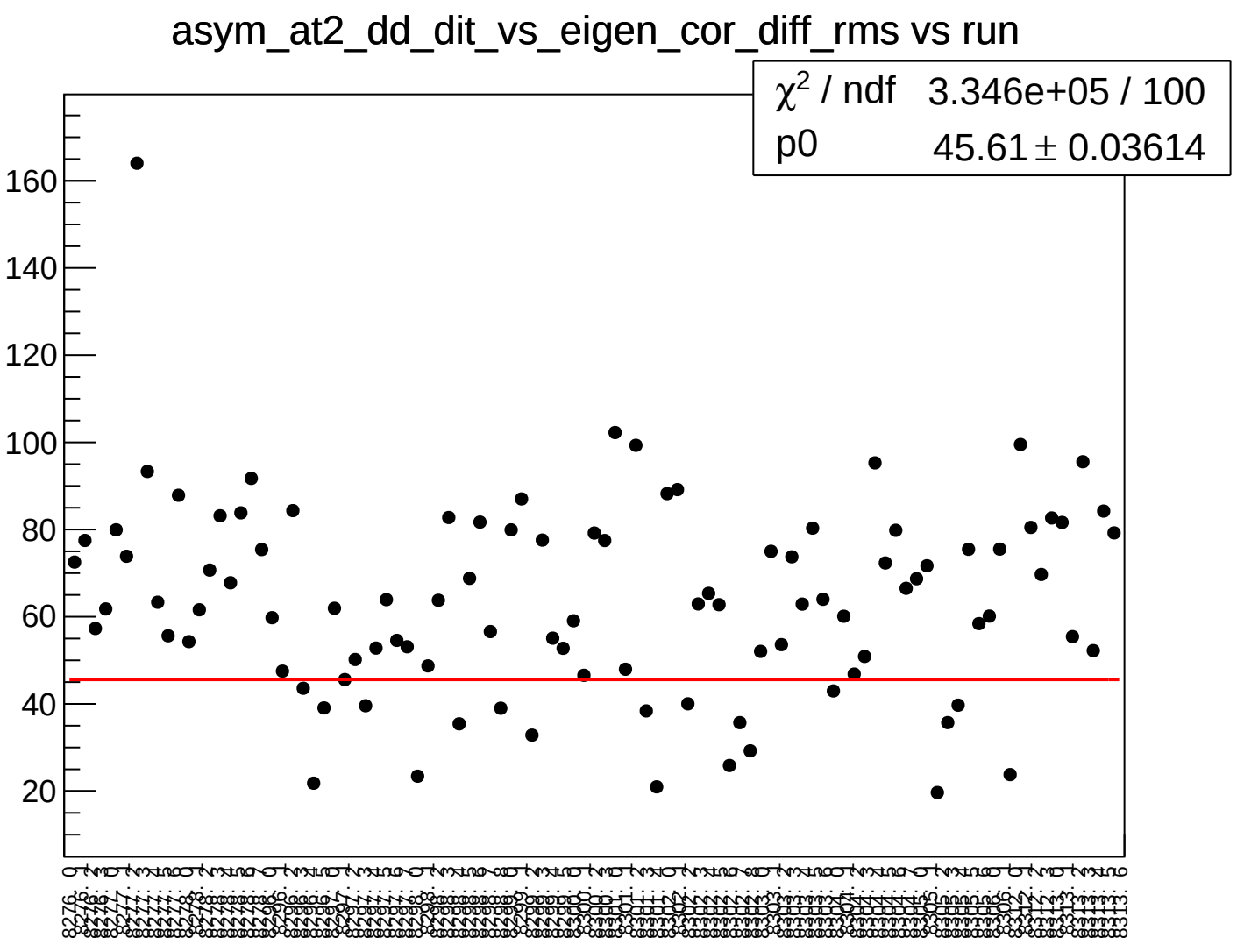

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 121.9 / 100
p0 7.315e−13 ± 3.26e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 101
Mean 84.78
Std Dev 23.52
4
3
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.137
Std Dev 1.09
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

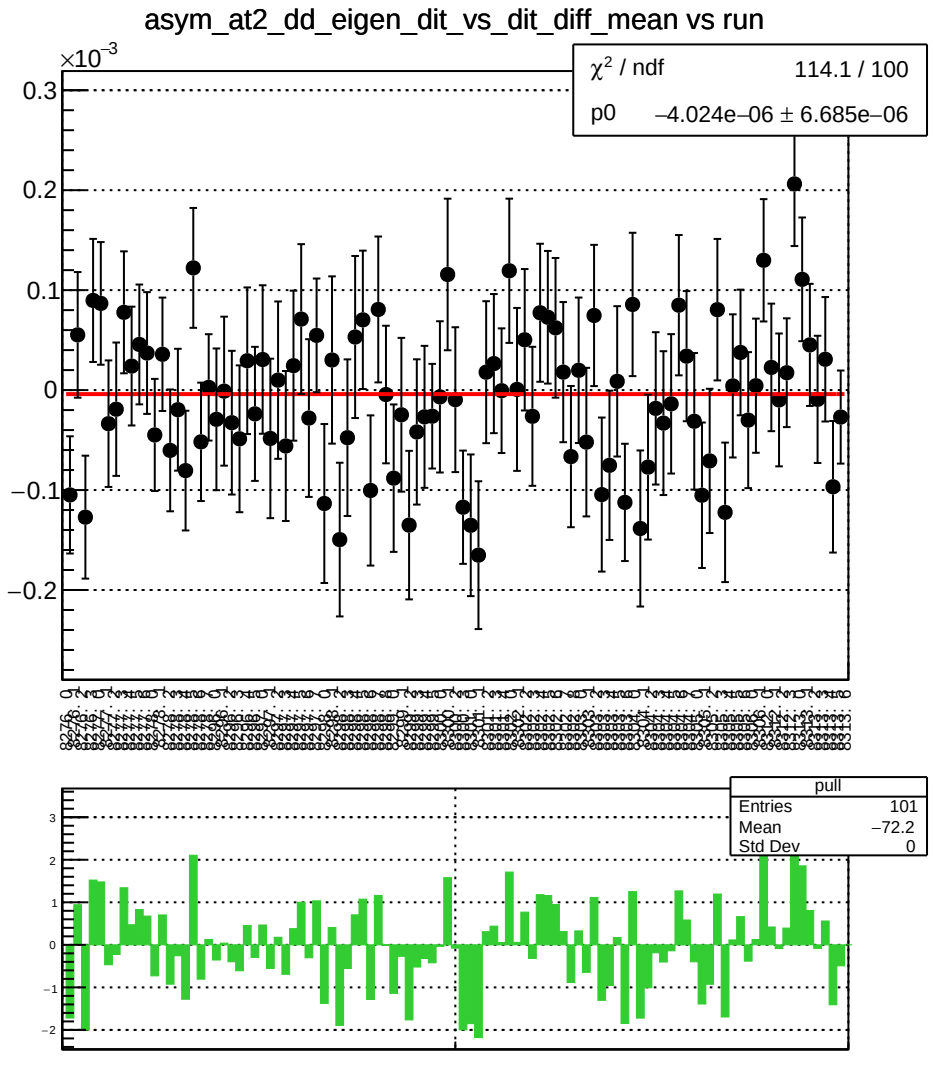

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.528e+05 / 100
p0 2.276e−10 ± 2.305e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

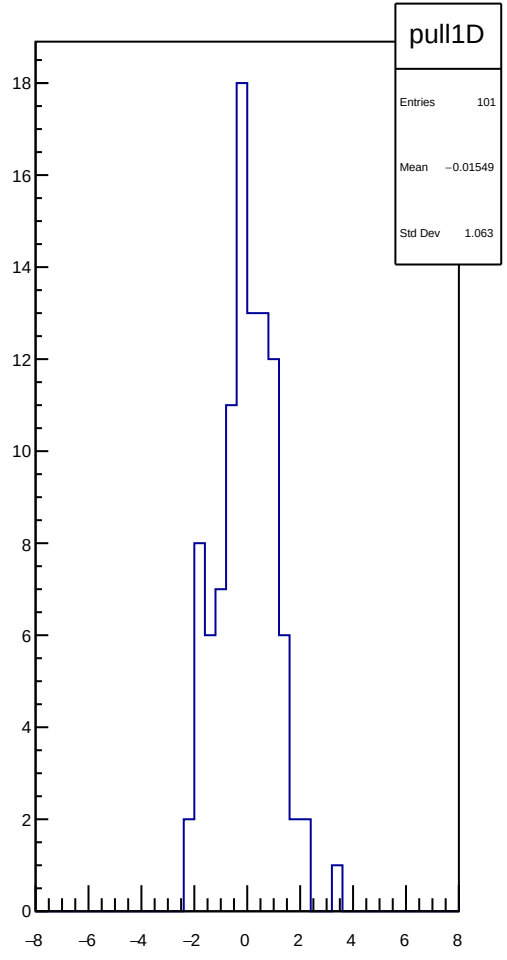

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 99.6 / 100
p0 −0.006575 ± 0.05111
pull
Entries 101
Mean 115.8
Std Dev 0
pull1D
Entries 101
Mean −0.08136
Std Dev 0.9897

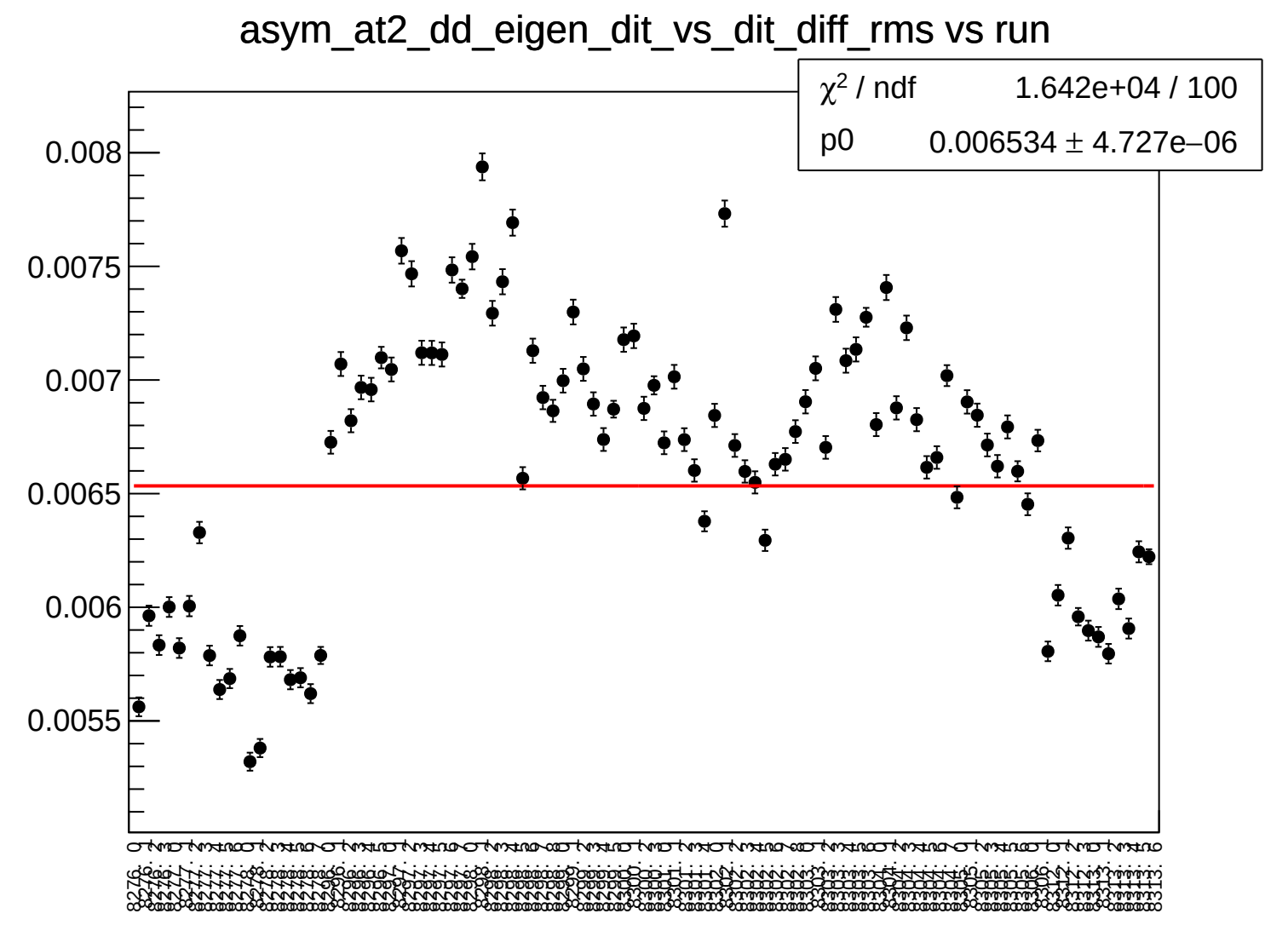

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.346e+05 / 100
p0 45.61 ± 0.03614
160
140
120
100
80
60
40
20

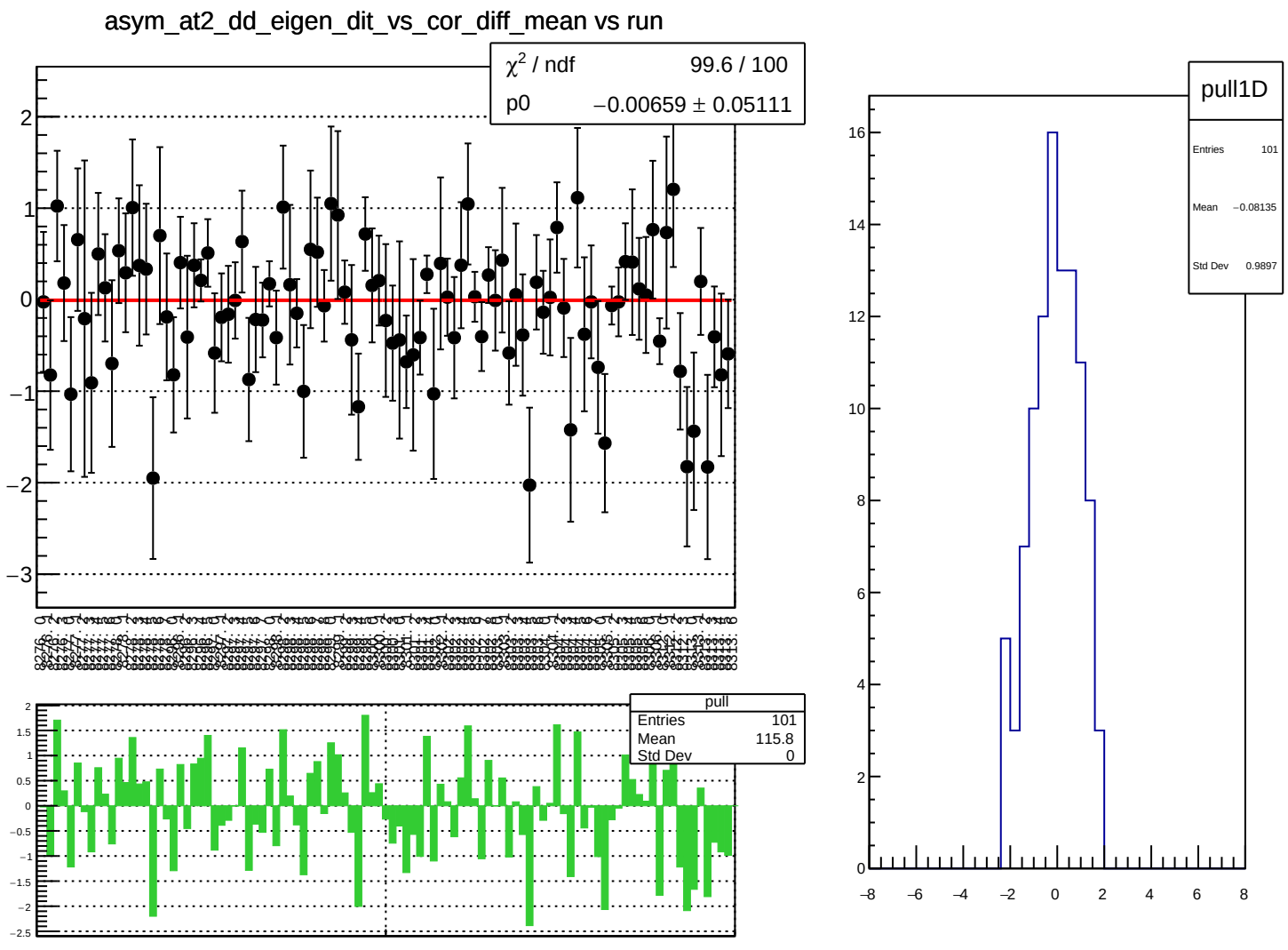

asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.6 / 100
p0 −0.006575 ± 0.05111
pull
Entries 101
Mean 115.8
Std Dev 0
pull1D
Entries 101
Mean −0.08136
Std Dev 0.9897

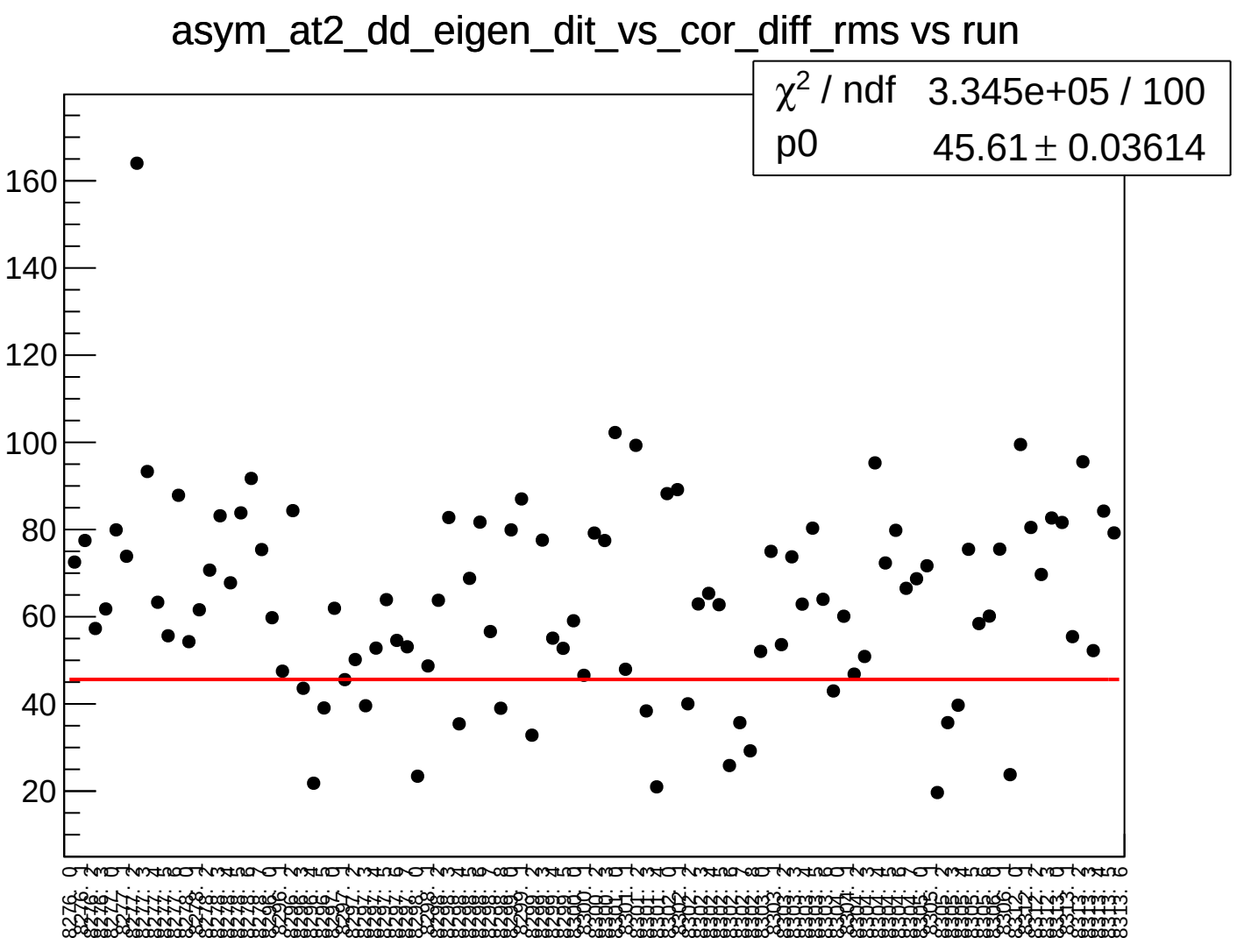

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.346e+05 / 100
p0 45.61 ± 0.03614
160
140
120
100
80
60
40
20

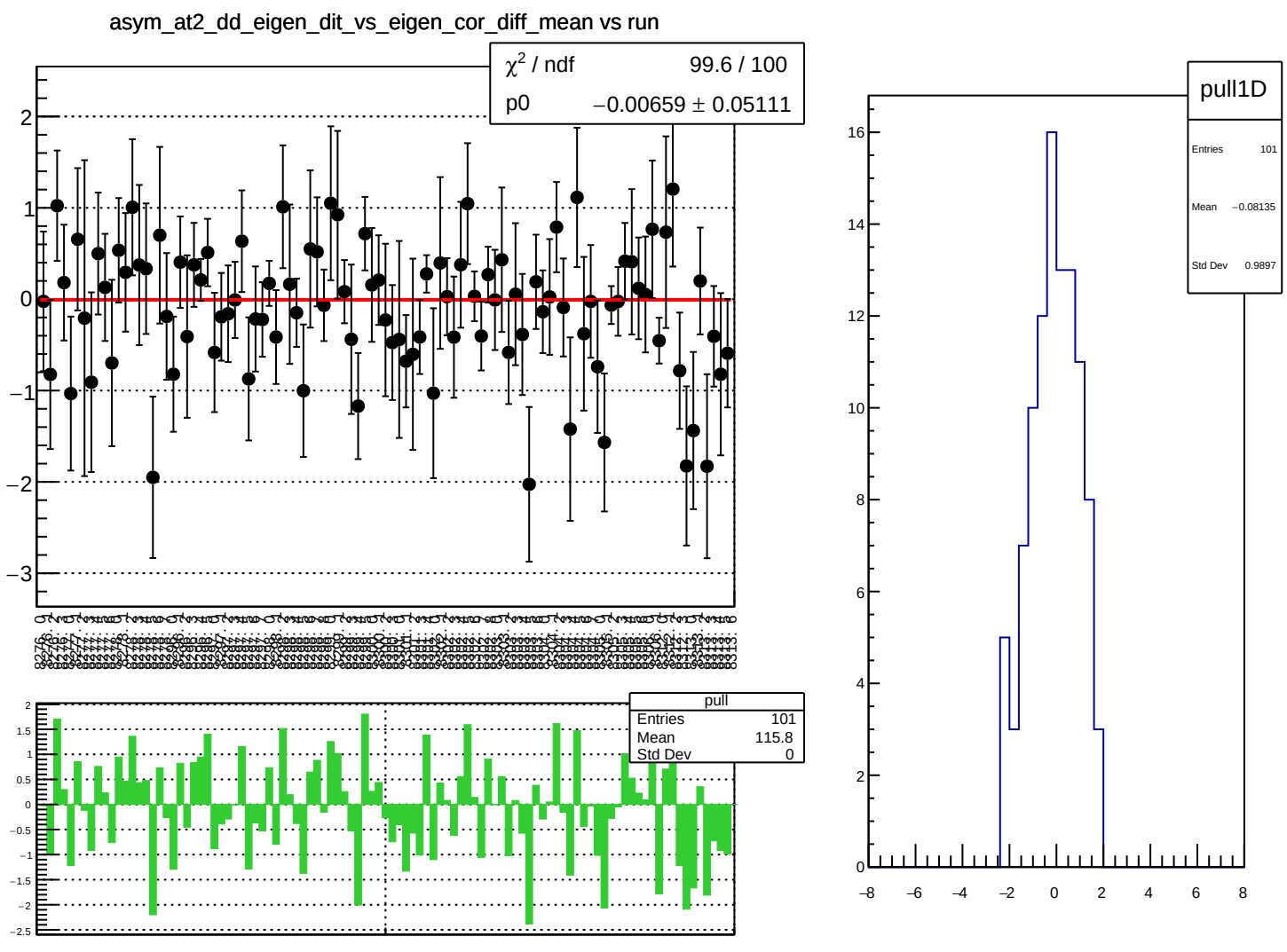

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 114.1 / 100
p0 −4.024e−06 ± 6.685e−06
pull
Entries 101
Mean −72.2
Std Dev 0

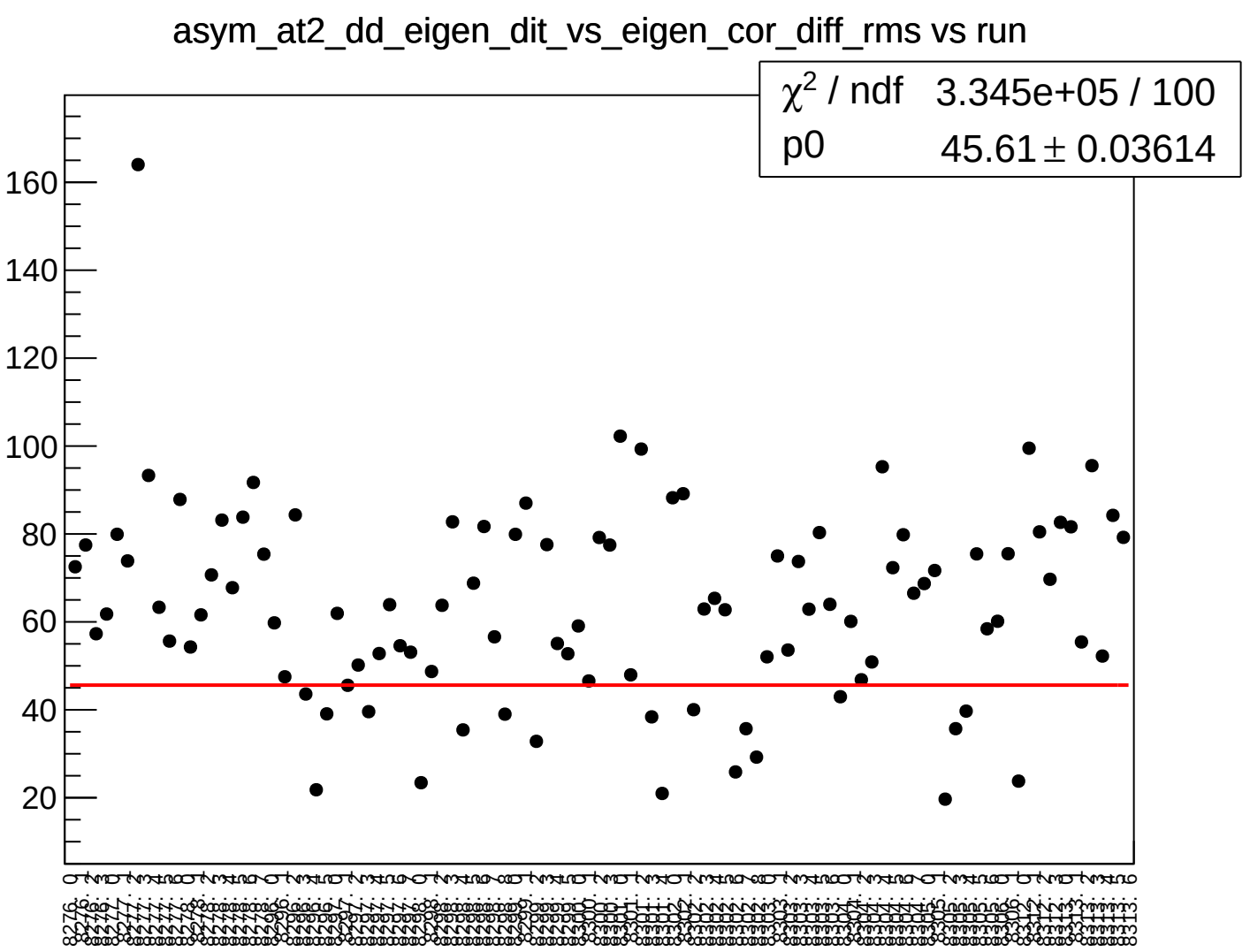

pull1D
Entries 101
Mean −0.01549
Std Dev 1.063

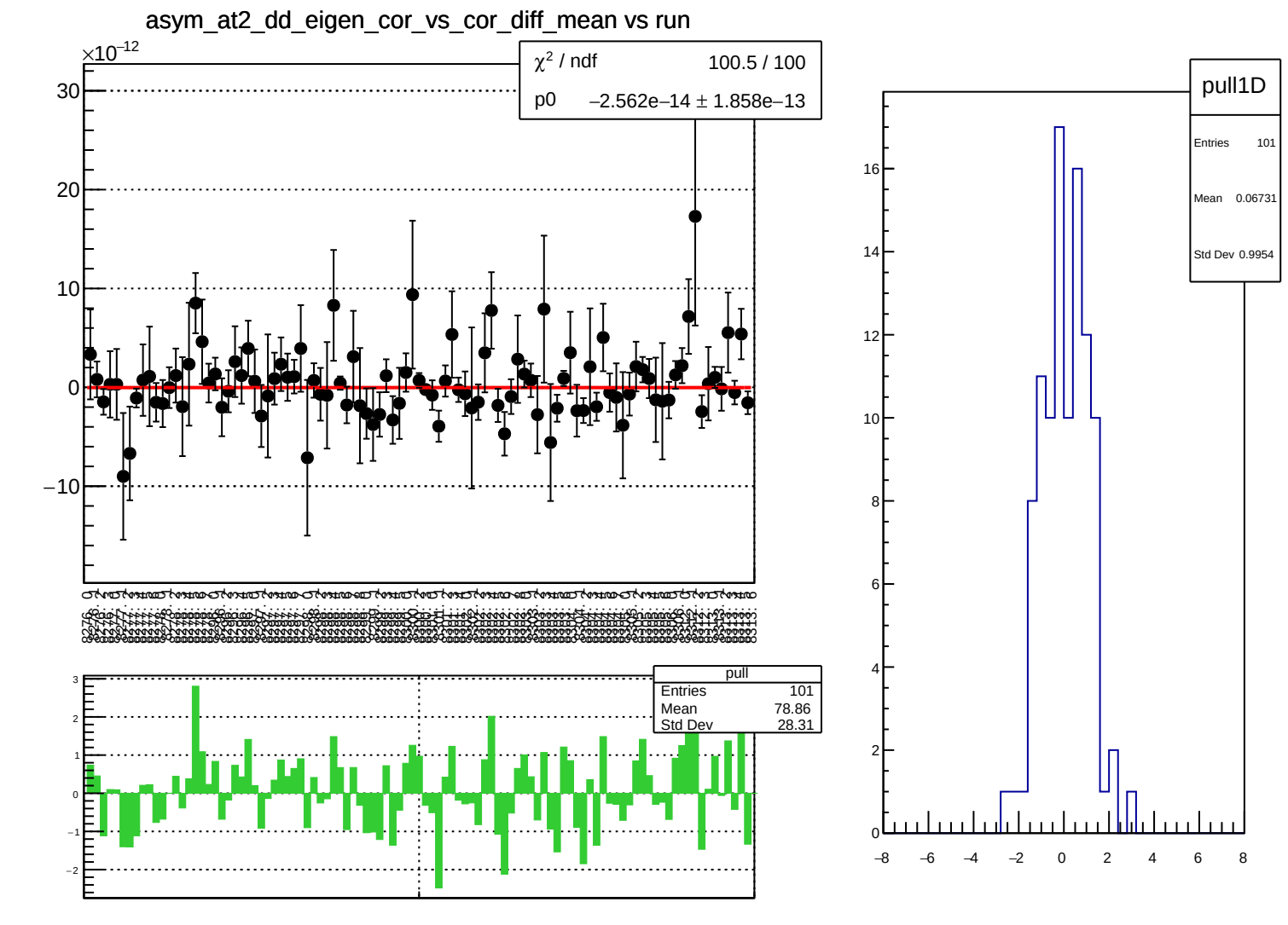

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.642e+04 / 100
p0 0.006534 ± 4.727e−06
0.008
0.0075
0.007
0.0065
0.006
0.0055

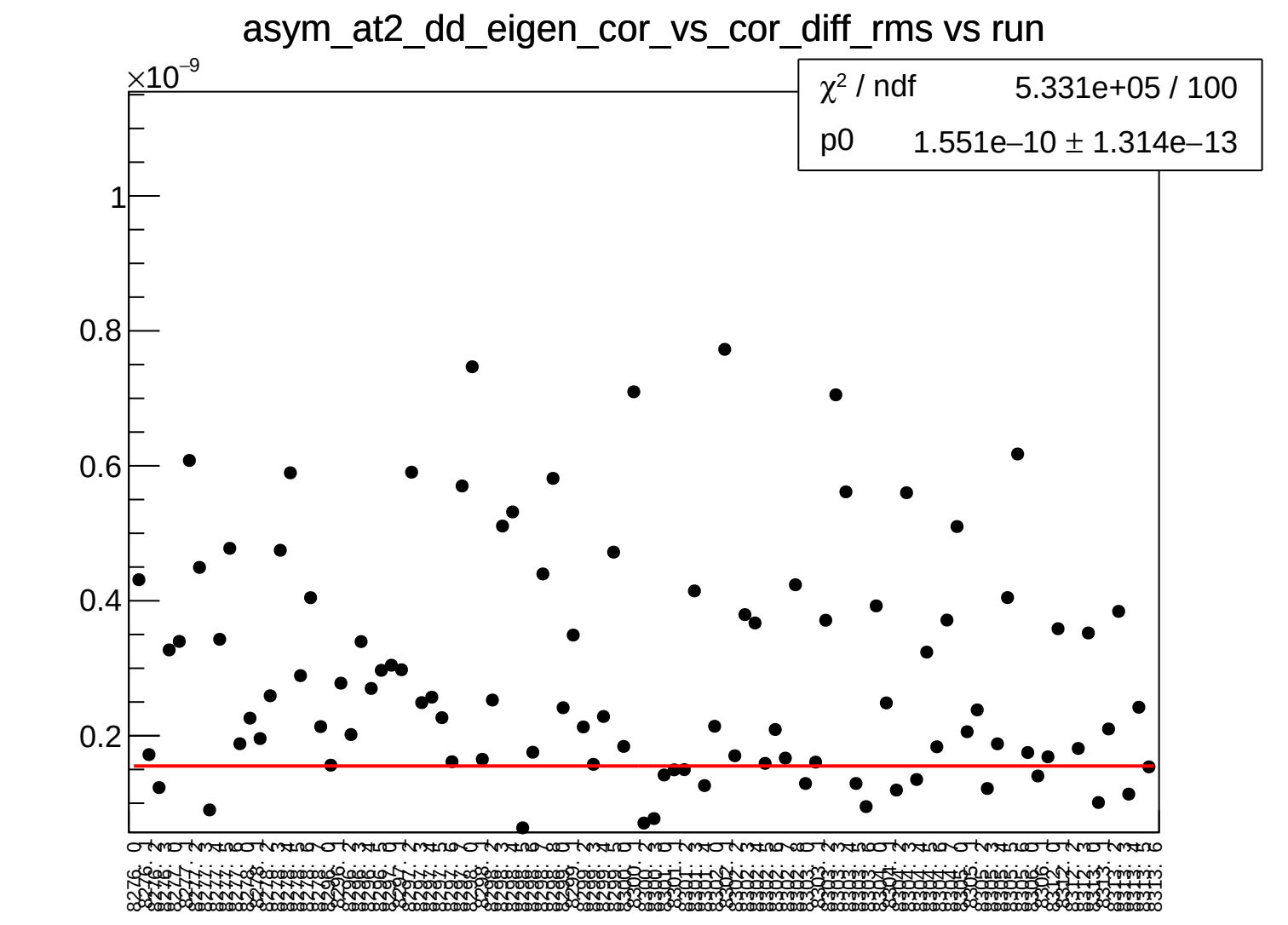

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.6 / 100
p0 −0.00659 ± 0.05111
pull
Entries 101
Mean 115.8
Std Dev 0
pull1D
Entries 101
Mean −0.08135
Std Dev 0.9897

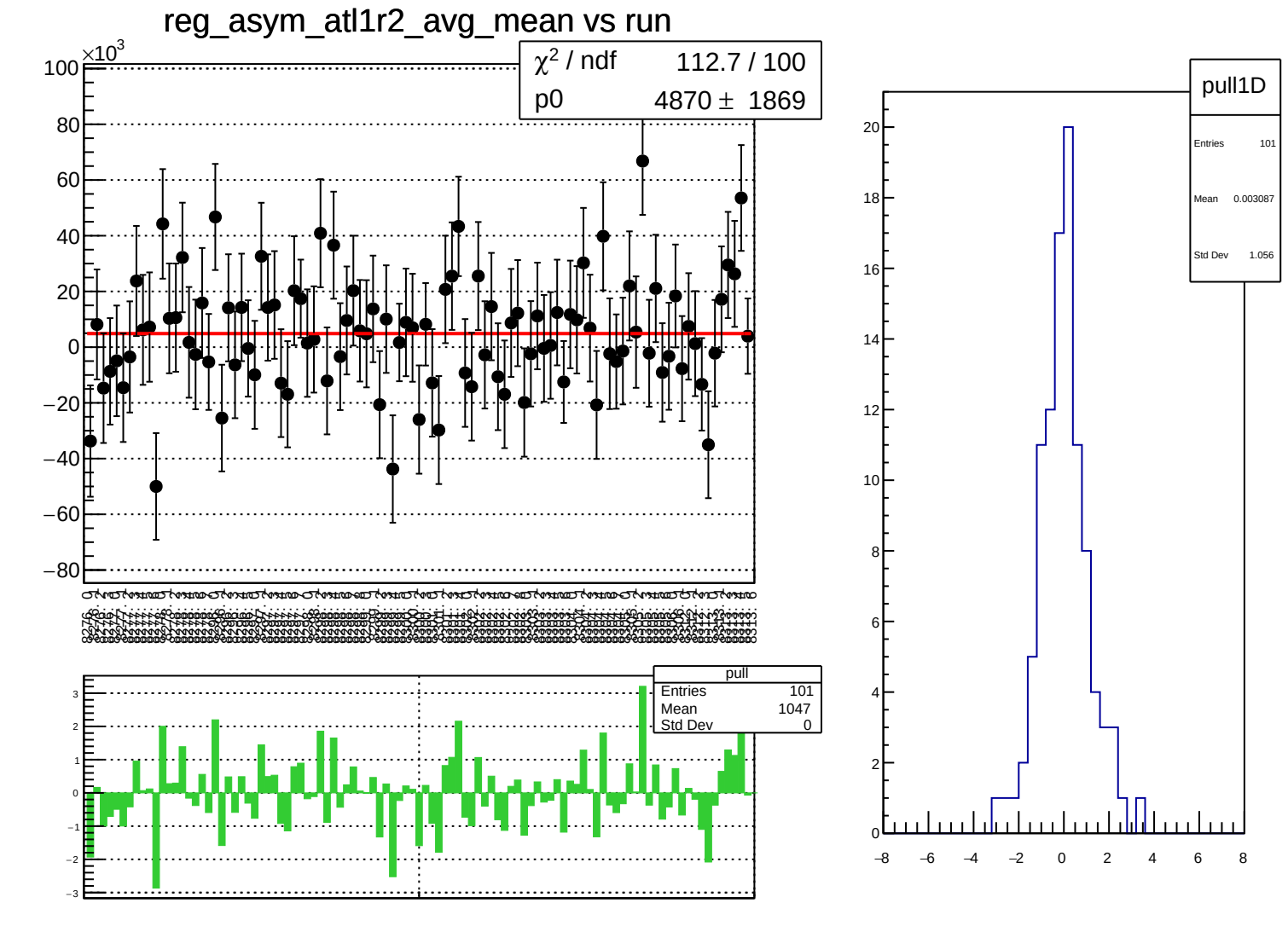

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.345e+05 / 100
p0 45.61 ± 0.03614
160
140
120
100
80
60
40
20

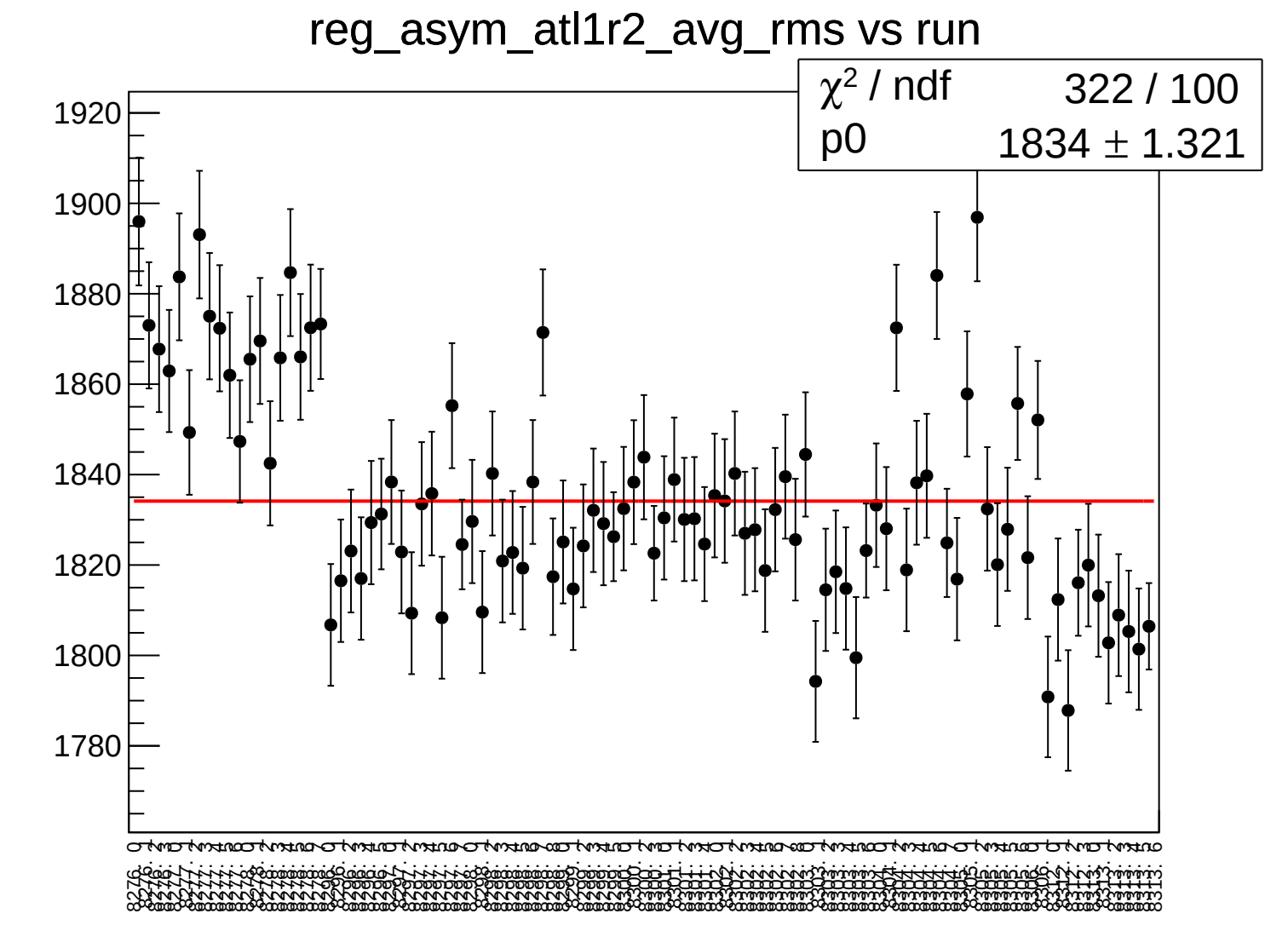

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.6 / 100
p0 −0.00659 ± 0.05111
pull
Entries 101
Mean 115.8
Std Dev 0
pull1D
Entries 101
Mean −0.08135
Std Dev 0.9897

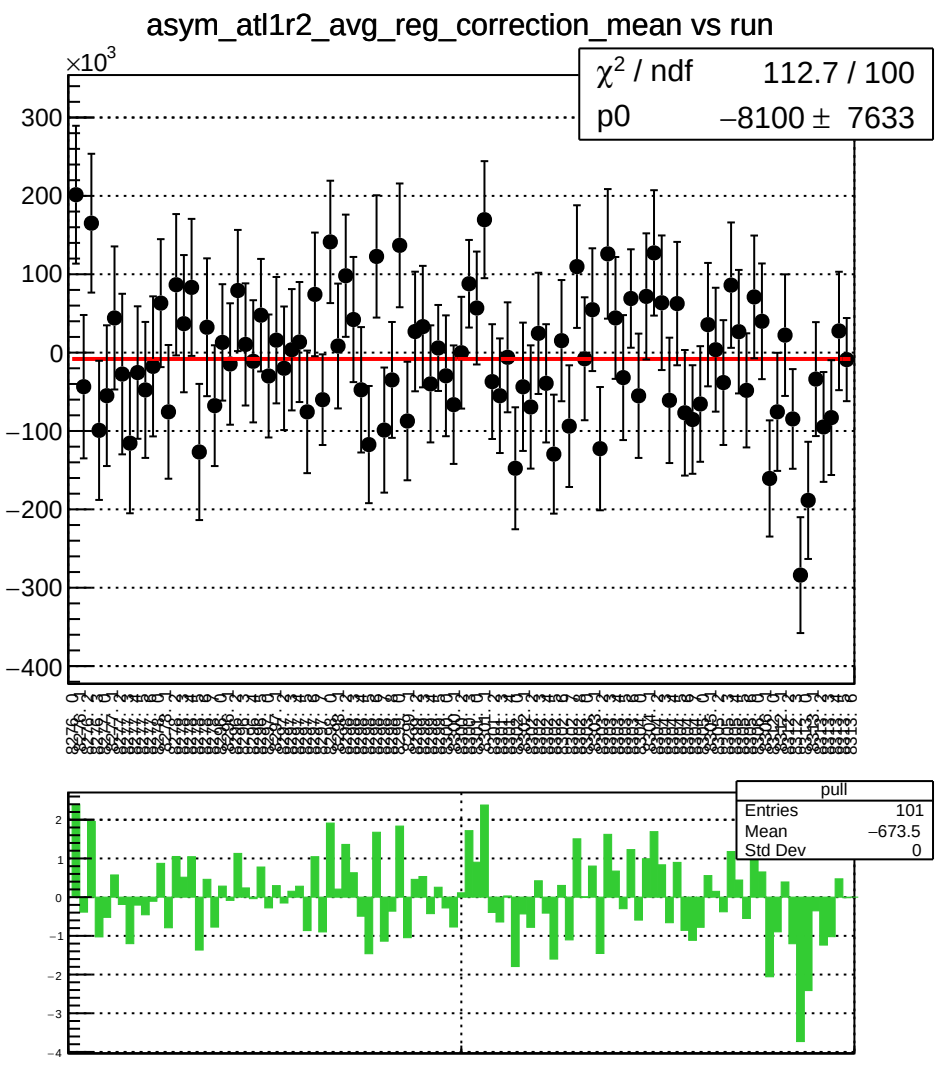

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 3.345e+05 / 100
p0 45.61 ± 0.03614
160
140
120
100
80
60
40
20

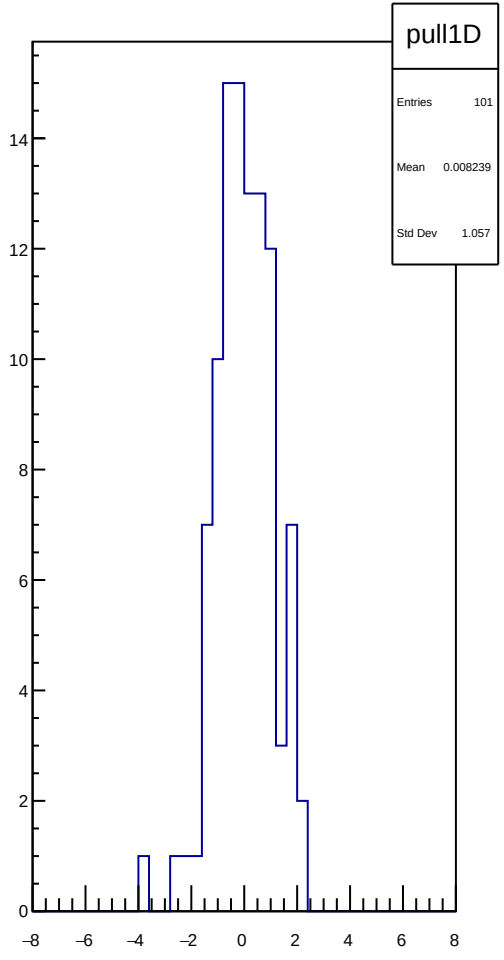

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10^-12
χ² / ndf 100.5 / 100
p0 −2.562e−14 ± 1.858e−13
pull
Entries 101
Mean 78.86
Std Dev 28.31
pull1D
Entries 101
Mean 0.06731
Std Dev 0.9954

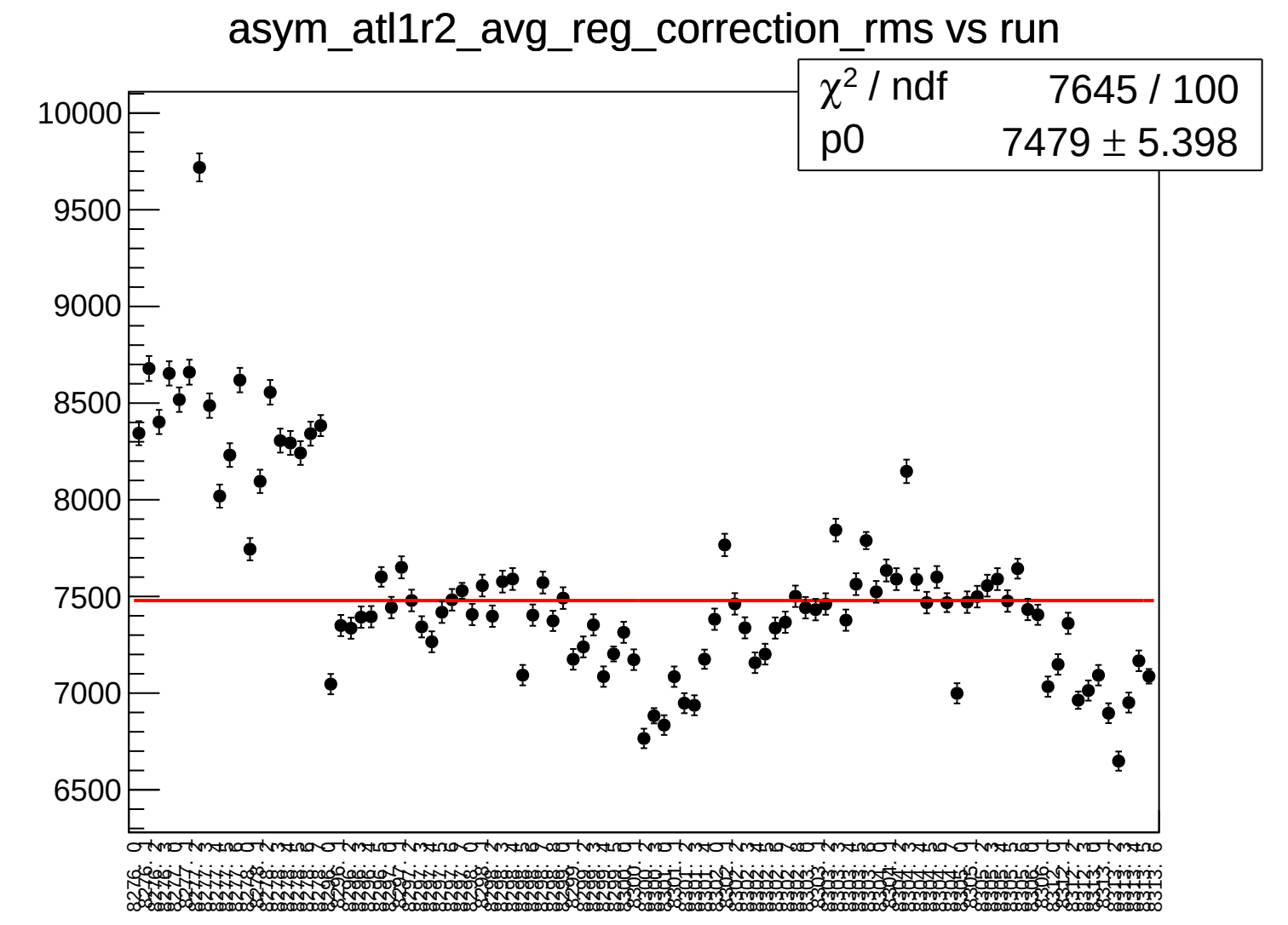

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.331e+05 / 100
p0 1.551e−10 ± 1.314e−13
1
0.8
0.6
0.4
0.2

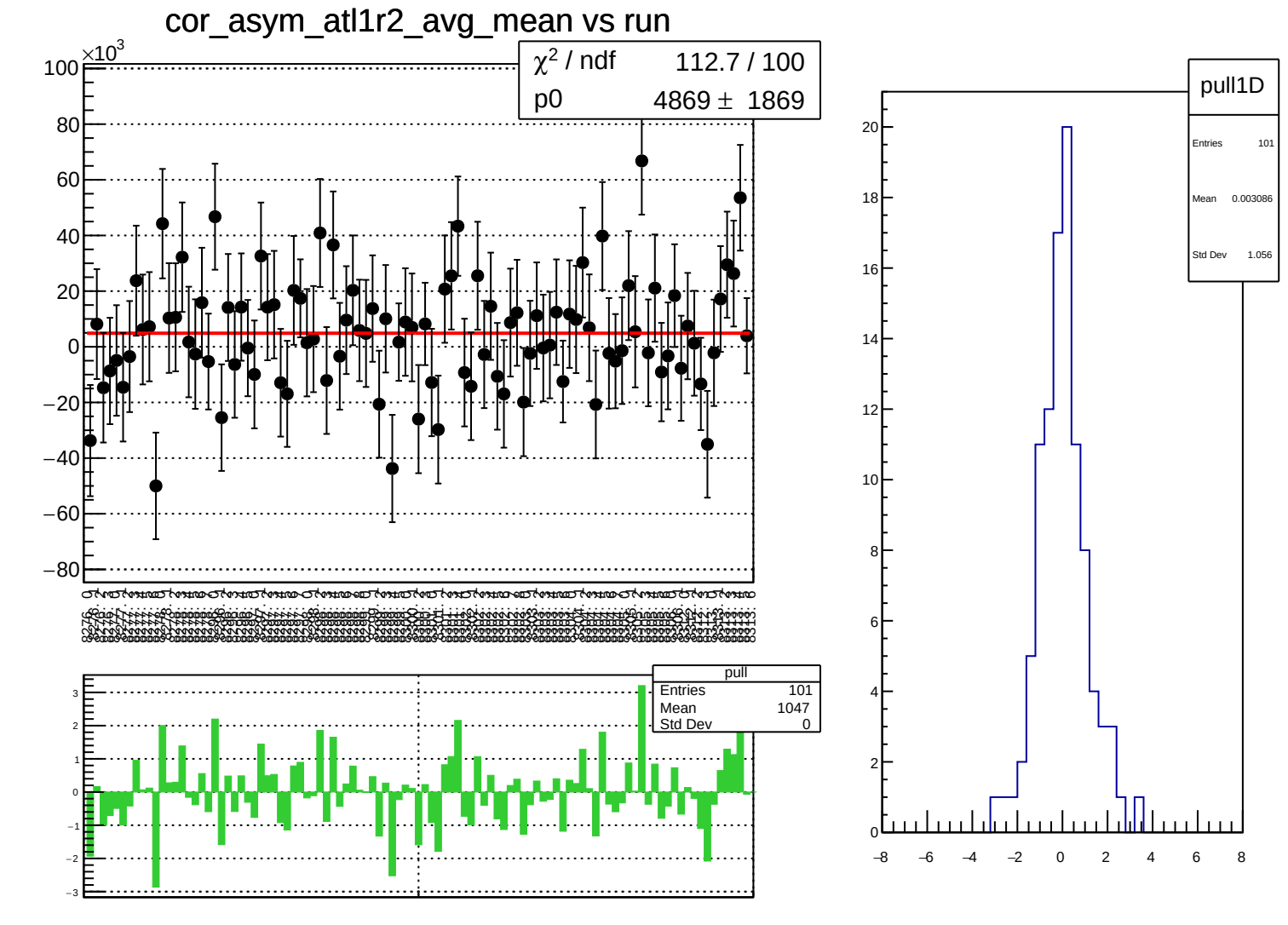

reg_asym_atl1r2_avg_mean vs run
×10^3
χ^2 / ndf 112.7 / 100
p0 4870 ± 1869
pull
Entries 101
Mean 1047
Std Dev 0
pull1D
Entries 101
Mean 0.003087
Std Dev 1.056

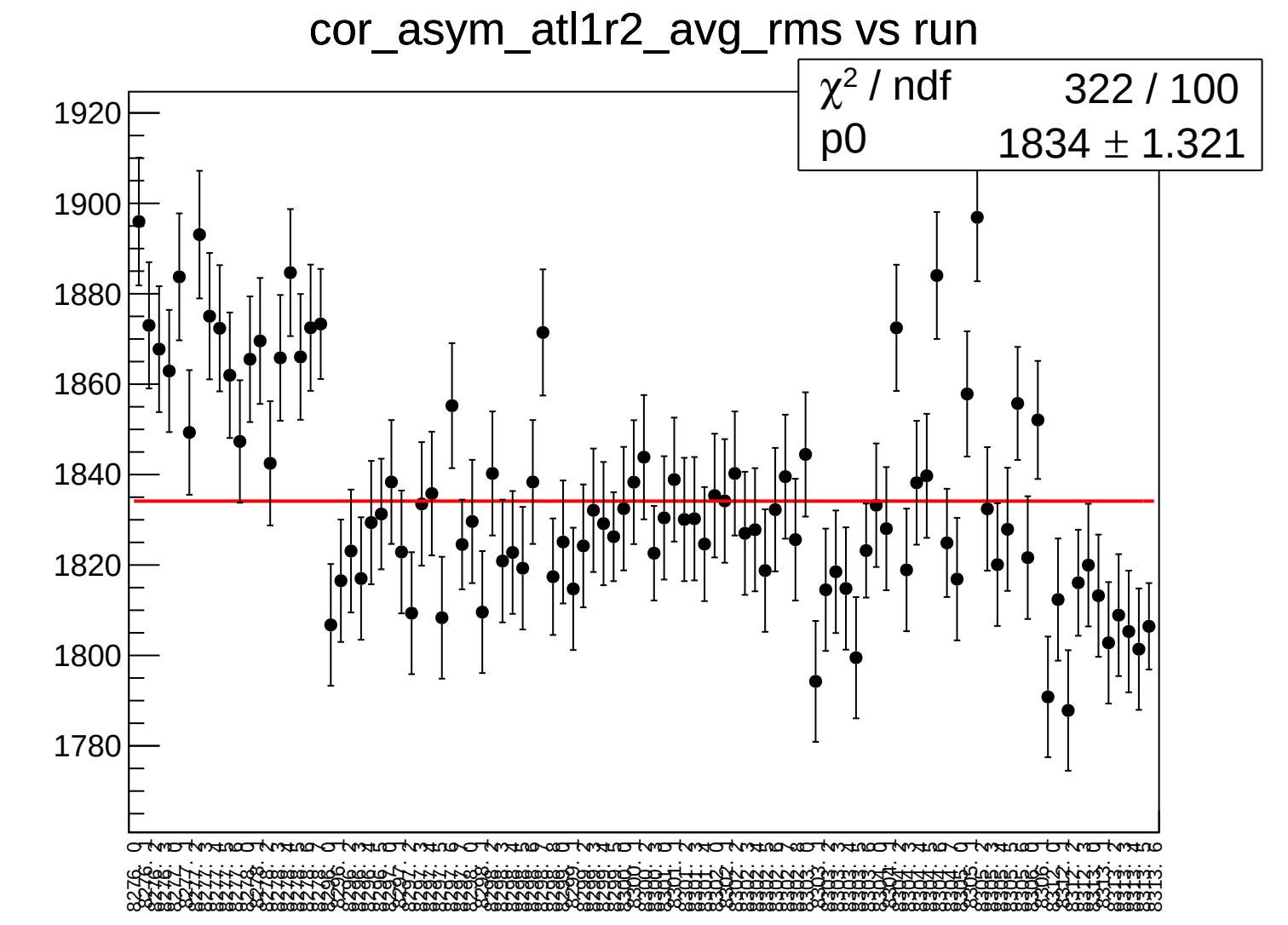

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 322 / 100
p0 1834 ± 1.321
1920
1900
1880
1860
1840
1820
1800
1780

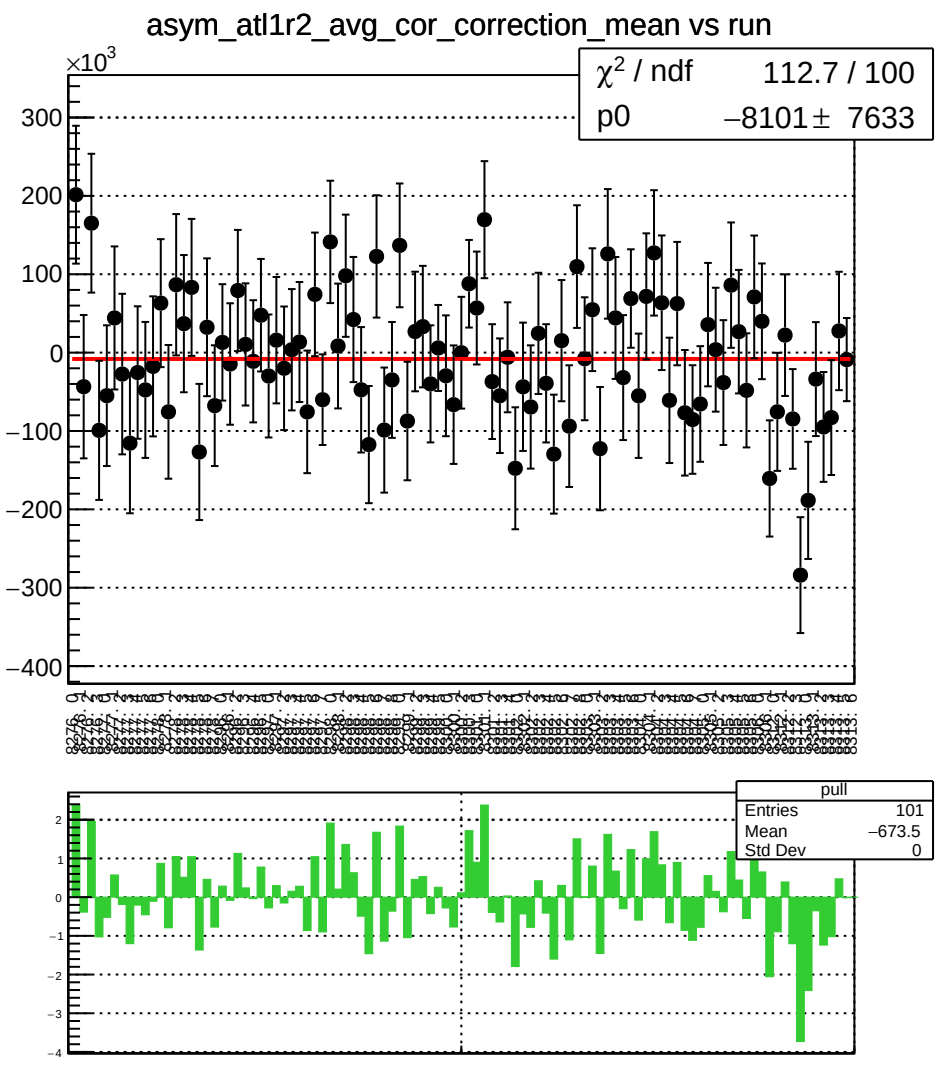

asym_atl1r2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 112.7 / 100
p0 −8100 ± 7633
300
200
100
0
−100
−200
−300
−400
pull
Entries 101
Mean −673.5
Std Dev 0
2
1
0
−1
−2
−3
−4

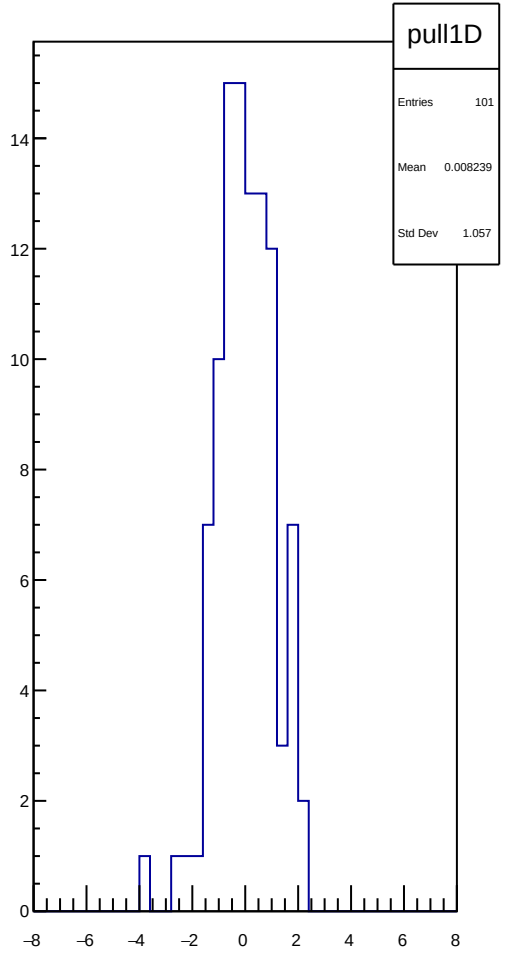

pull1D
Entries 101
Mean 0.008239
Std Dev 1.057
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

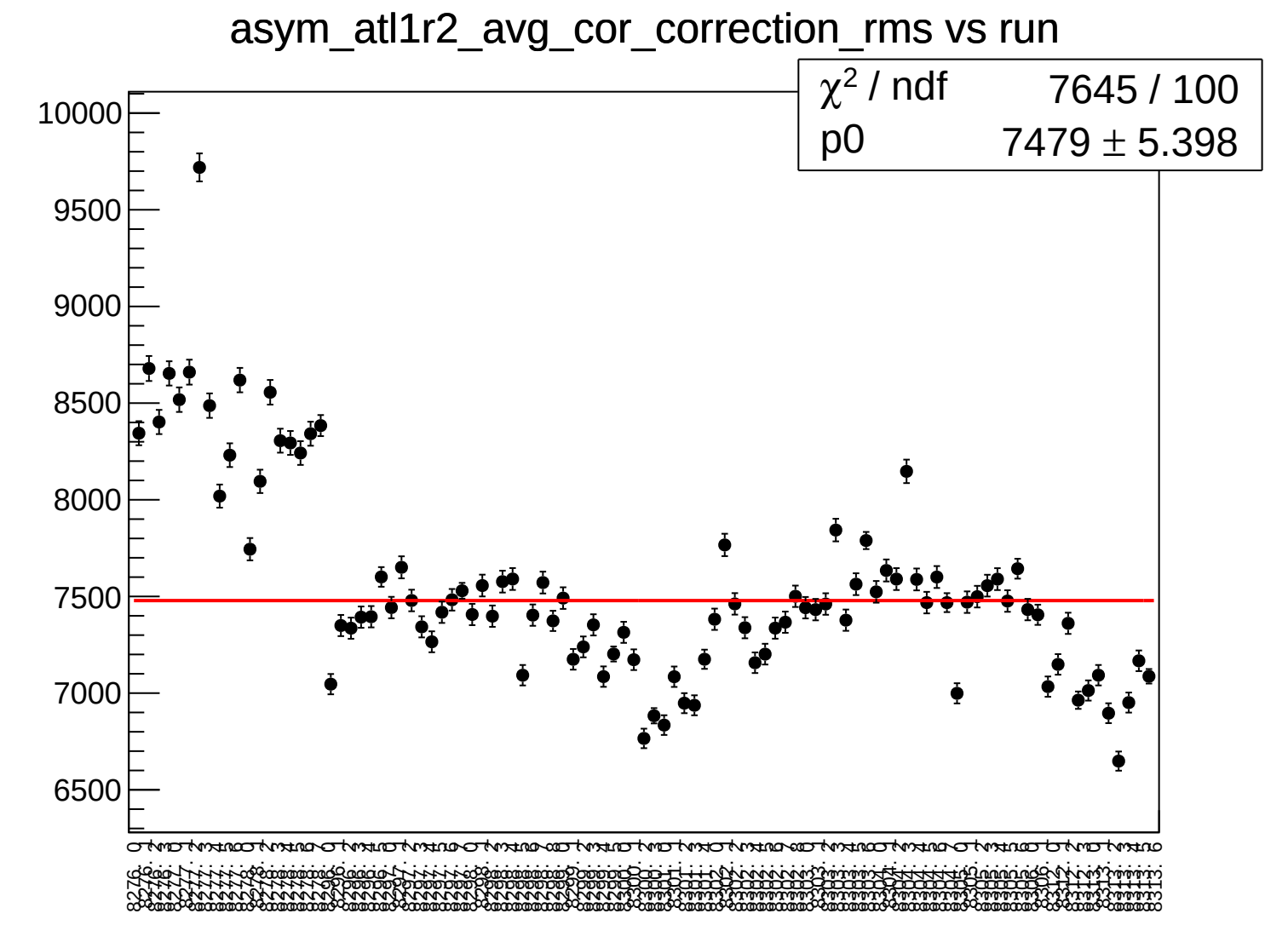

asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 7645 / 100
p0 7479 ± 5.398
10000
9500
9000
8500
8000
7500
7000
6500

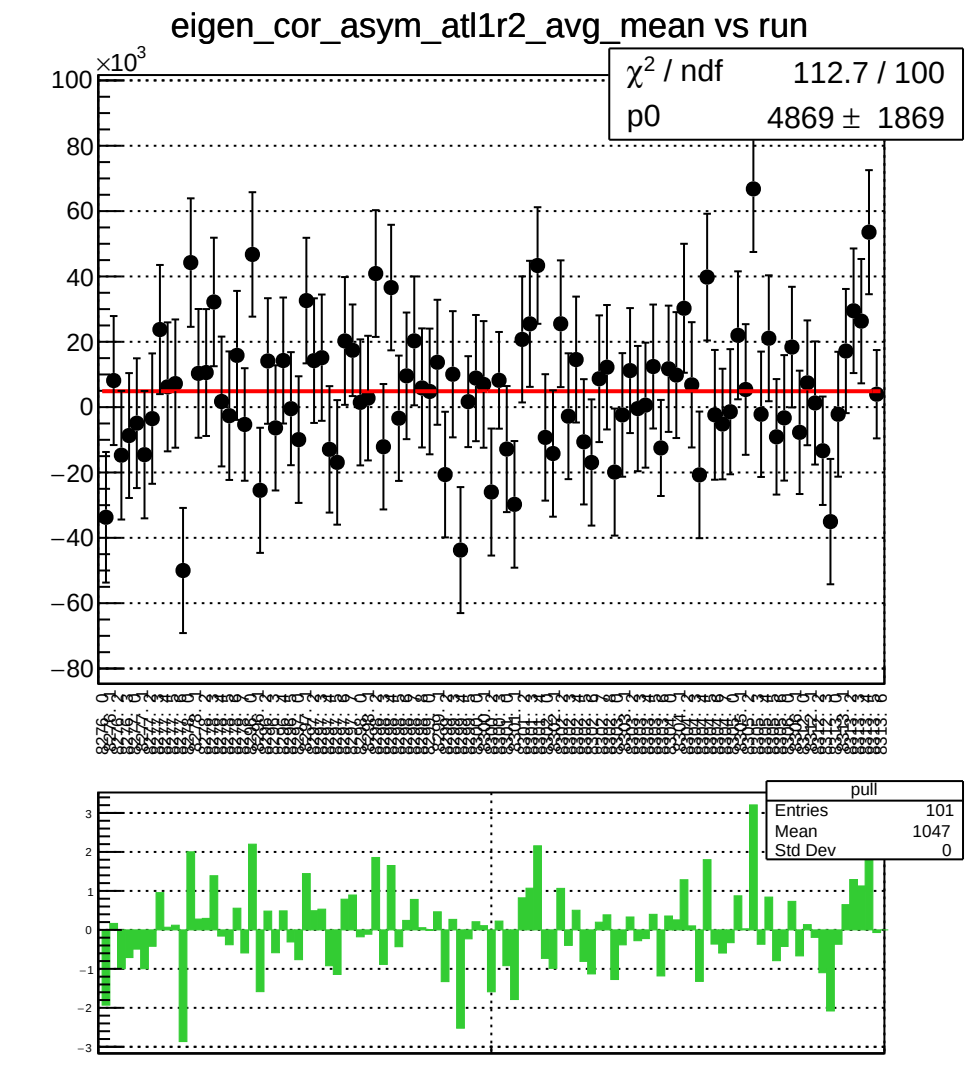

cor_asym_atl1r2_avg_mean vs run
×10^3
χ^2 / ndf 112.7 / 100
p0 4869 ± 1869
pull
Entries 101
Mean 1047
Std Dev 0
pull1D
Entries 101
Mean 0.003086
Std Dev 1.056

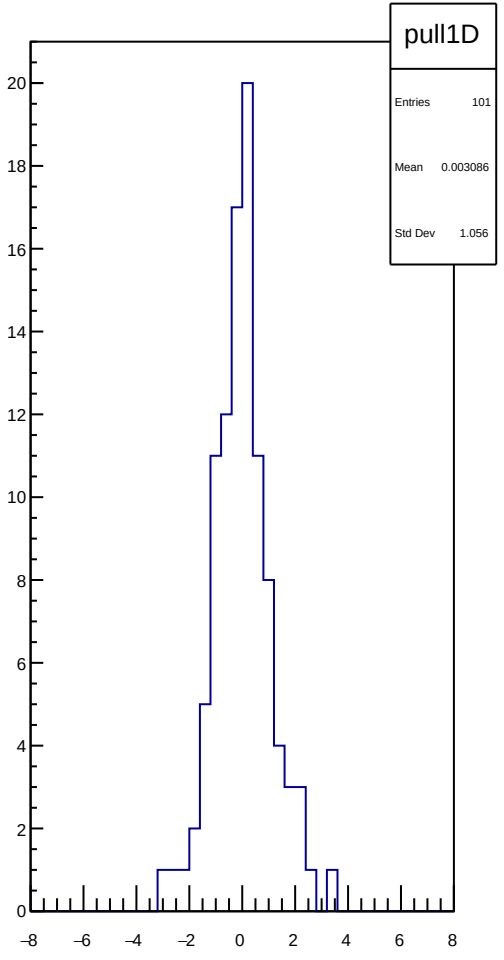

cor_asym_atl1r2_avg_rms vs run
χ² / ndf 322 / 100
p0 1834 ± 1.321
1920
1900
1880
1860
1840
1820
1800
1780

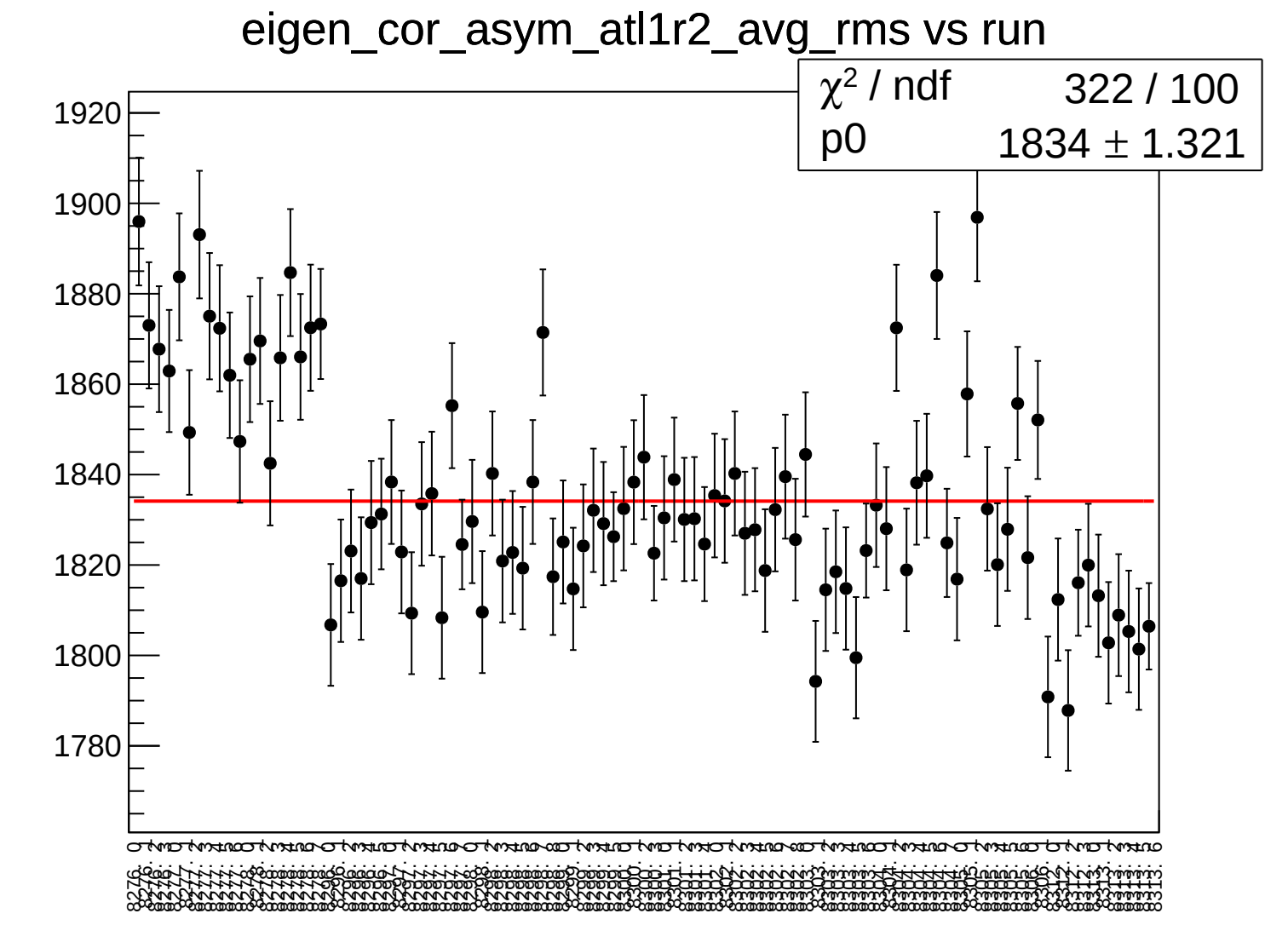

asym_atl1r2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 112.7 / 100
p0 −8101 ± 7633
300
200
100
0
−100
−200
−300
−400
pull
Entries 101
Mean −673.5
Std Dev 0
2
1
0
−1
−2
−3
−4

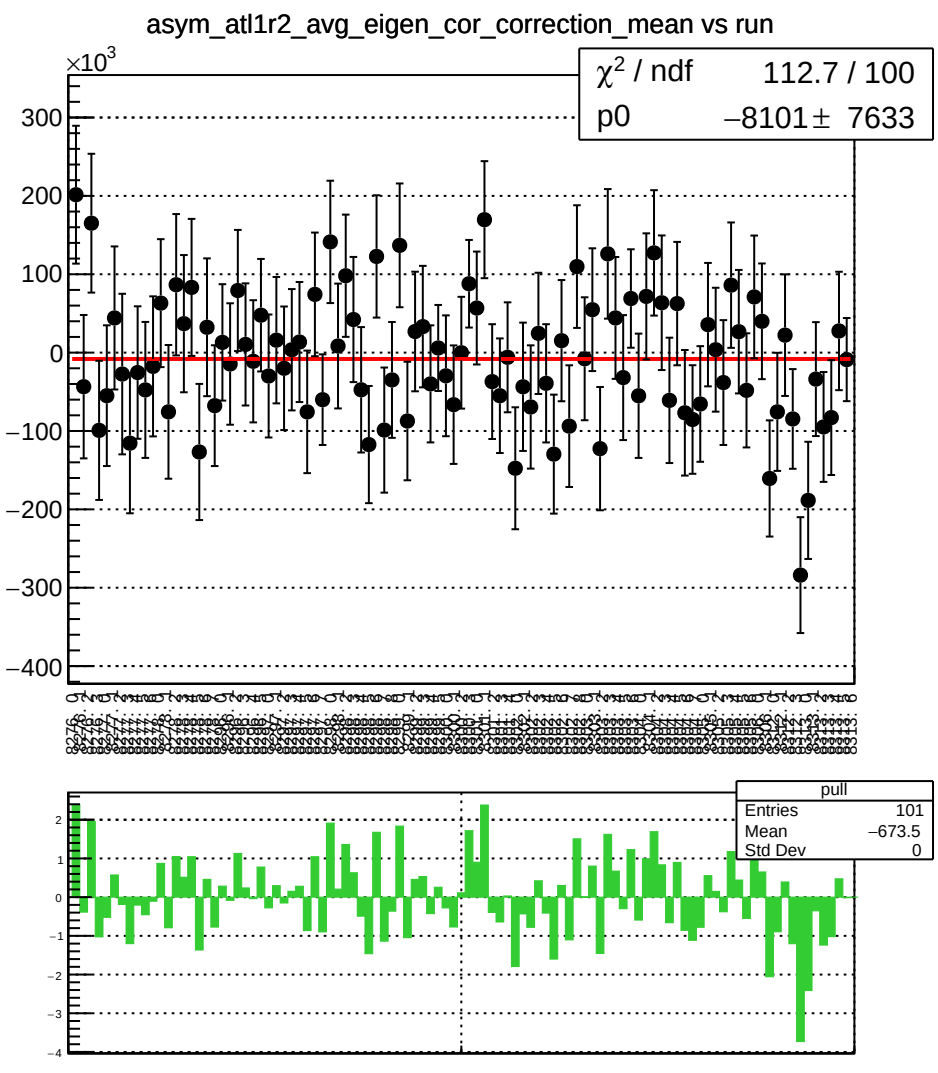

pull1D
Entries 101
Mean 0.008239
Std Dev 1.057
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

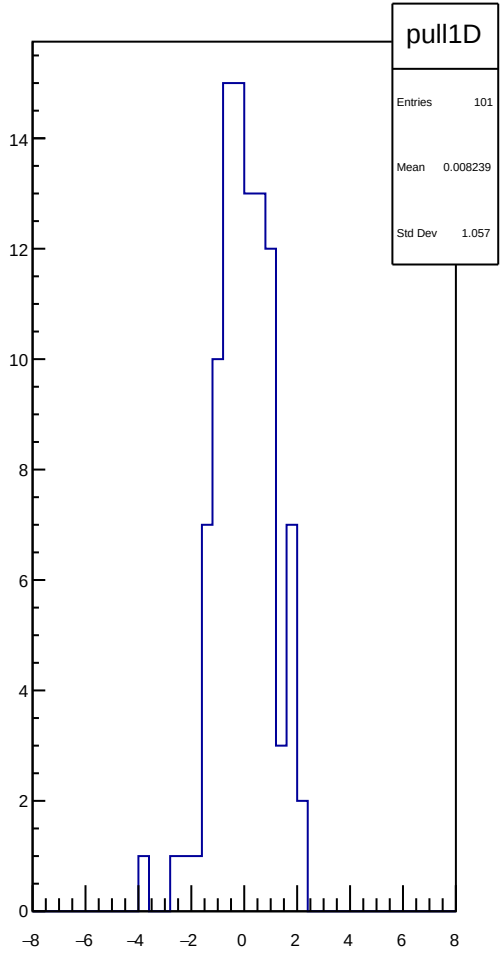

asym_atl1r2_avg_cor_correction_rms vs run
χ² / ndf 7645 / 100
p0 7479 ± 5.398
10000
9500
9000
8500
8000
7500
7000
6500

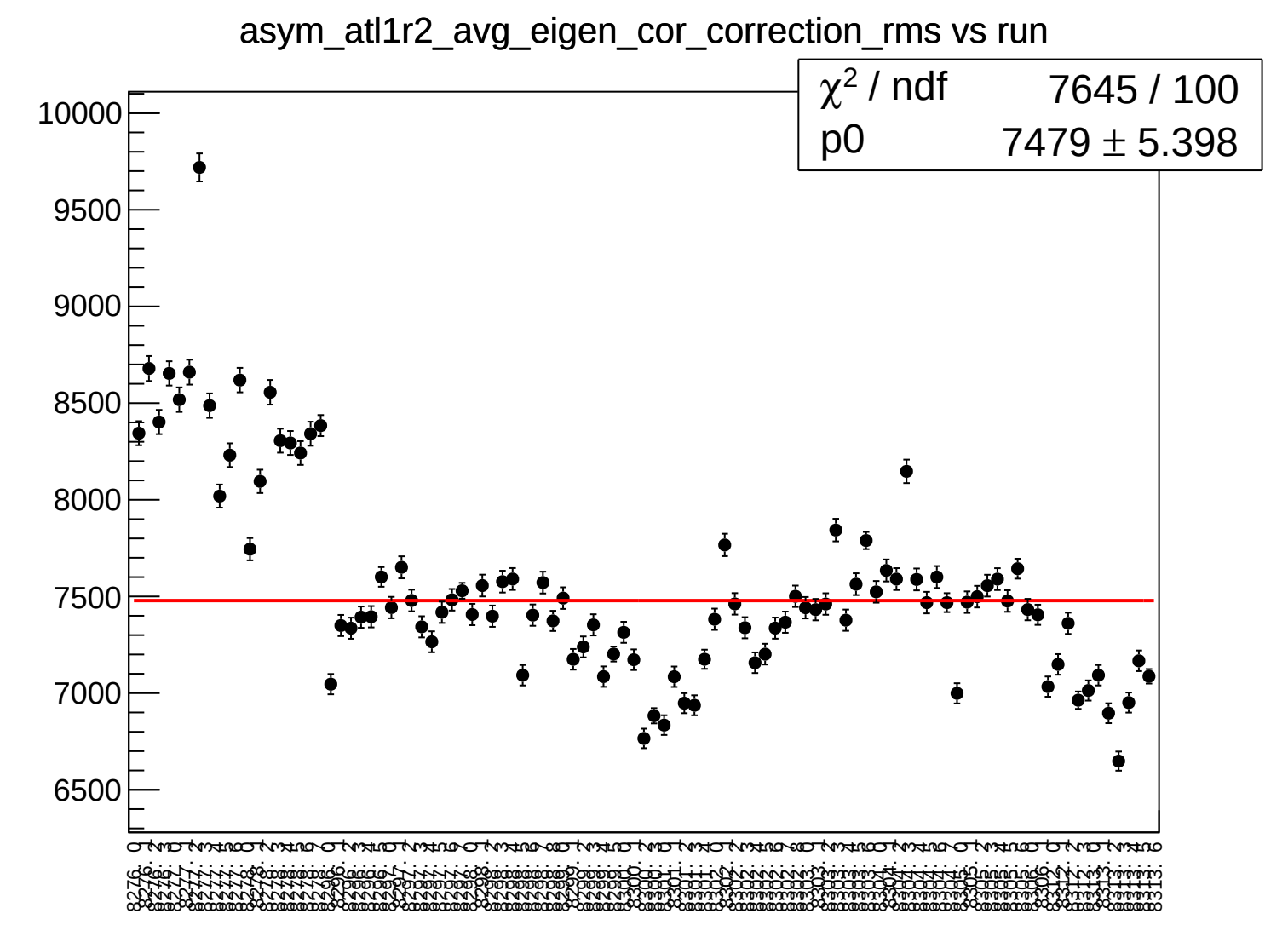

eigen_cor_asym_atl1r2_avg_mean vs run
×10^3
χ^2 / ndf 112.7 / 100
p0 4869 ± 1869
pull
Entries 101
Mean 1047
Std Dev 0

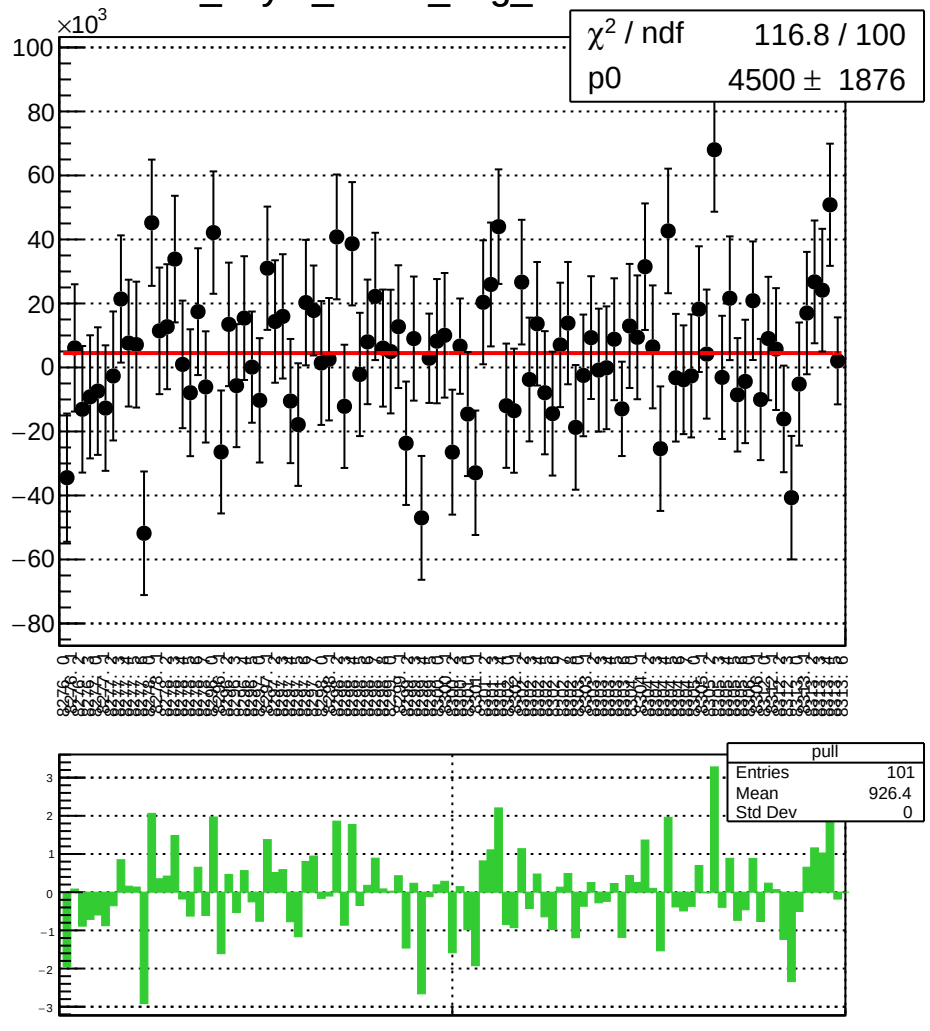

pull1D
Entries 101
Mean 0.003086
Std Dev 1.056

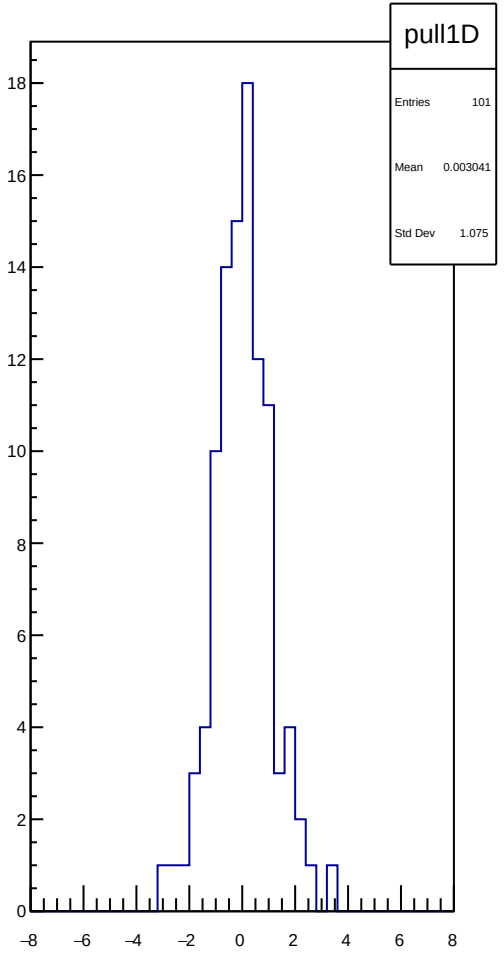

eigen_cor_asym_atl1r2_avg_rms vs run
χ² / ndf 322 / 100
p0 1834 ± 1.321
1920
1900
1880
1860
1840
1820
1800
1780

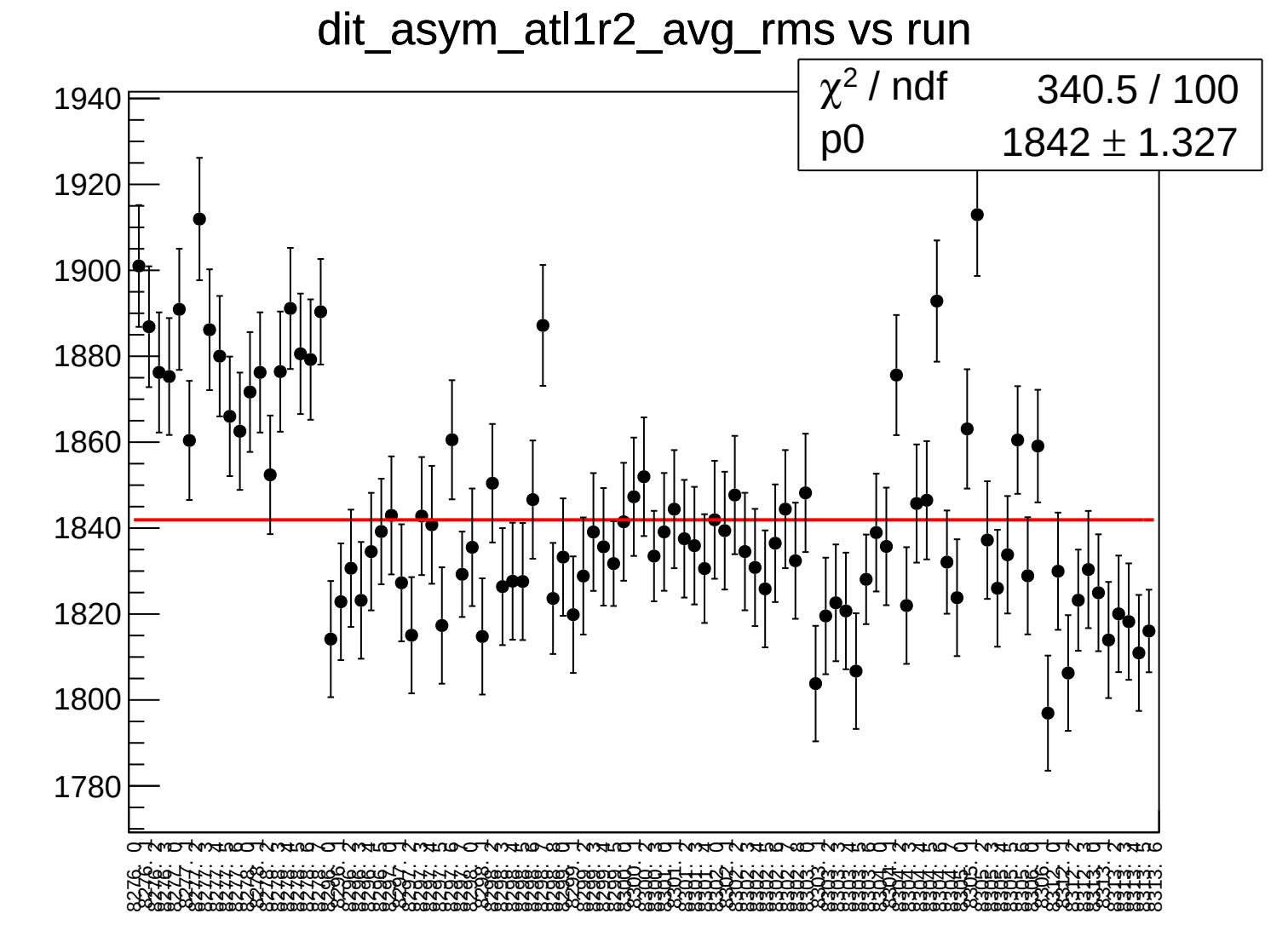

asym_atl1r2_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 112.7 / 100
p0 −8101 ± 7633
300
200
100
0
−100
−200
−300
−400
pull
Entries 101
Mean −673.5
Std Dev 0
2
1
0
−1
−2
−3
−4

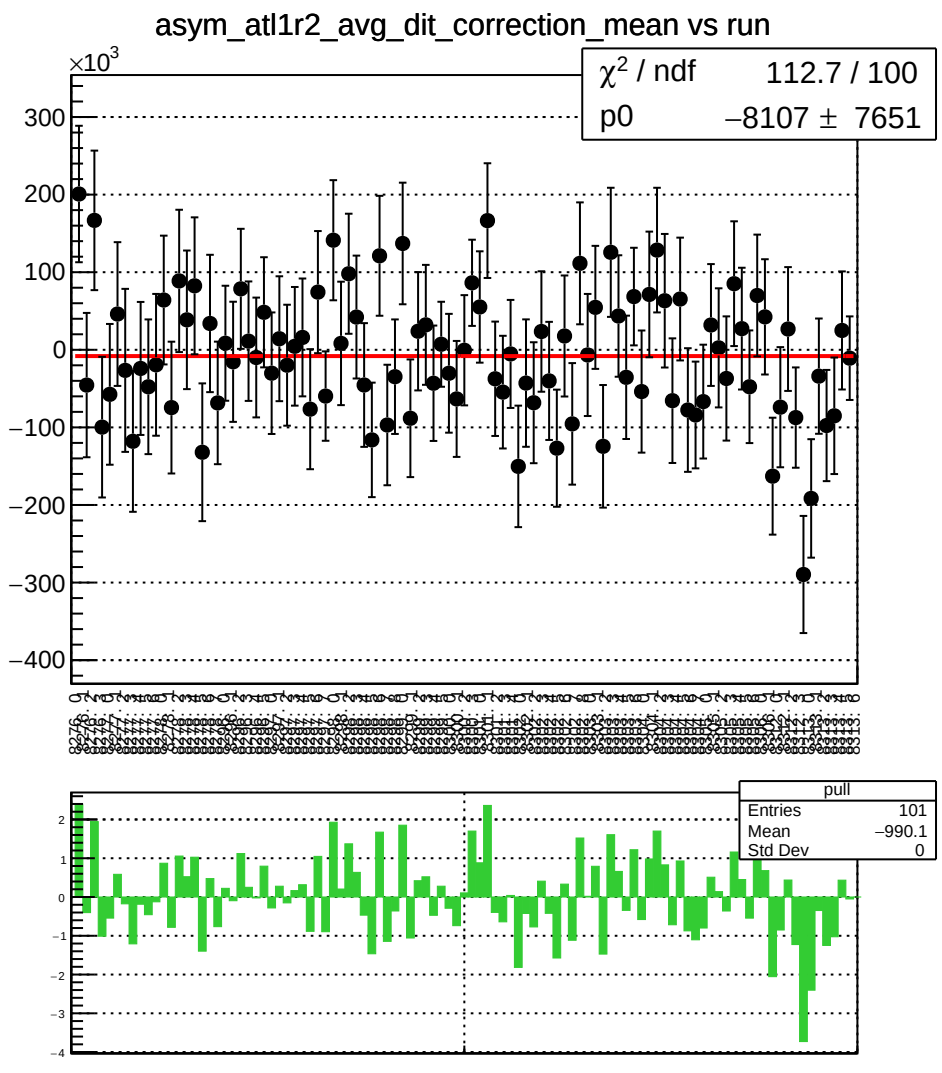

pull1D
Entries 101
Mean 0.008239
Std Dev 1.057
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

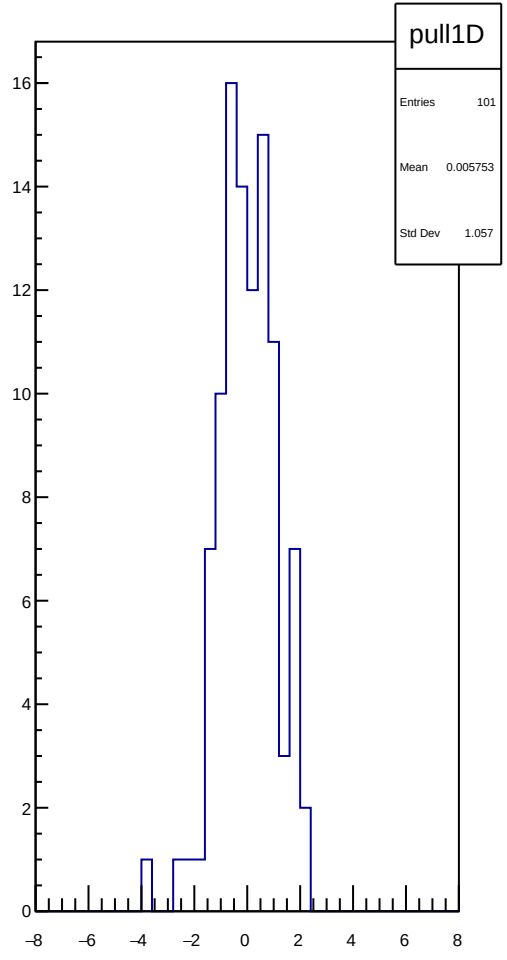

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 7645 / 100
p0 7479 ± 5.398
10000
9500
9000
8500
8000
7500
7000
6500

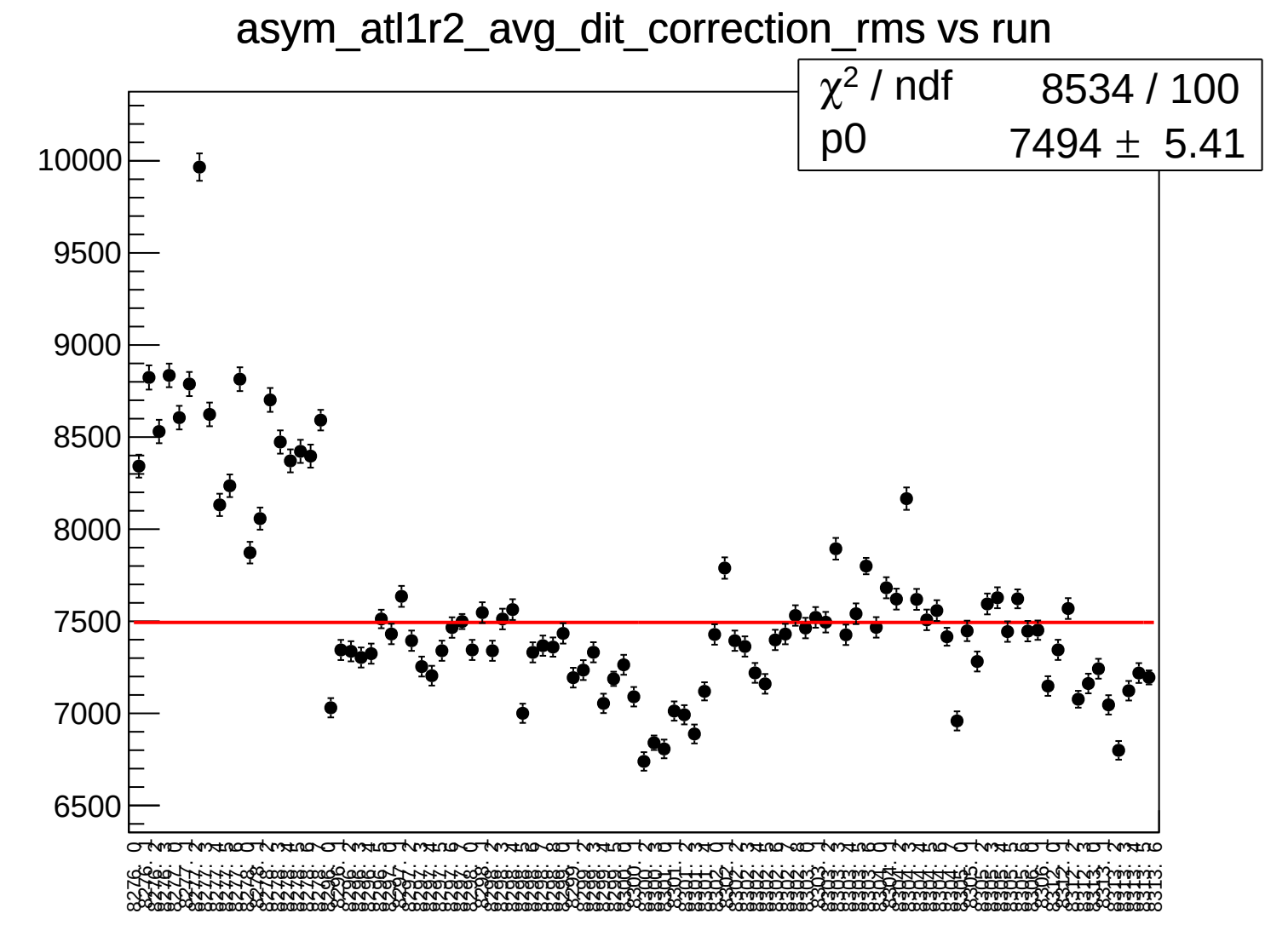

dit_asym_atl1r2_avg_mean vs run
×10^3
χ^2 / ndf 116.8 / 100
p0 4500 ± 1876
pull
Entries 101
Mean 926.4
Std Dev 0

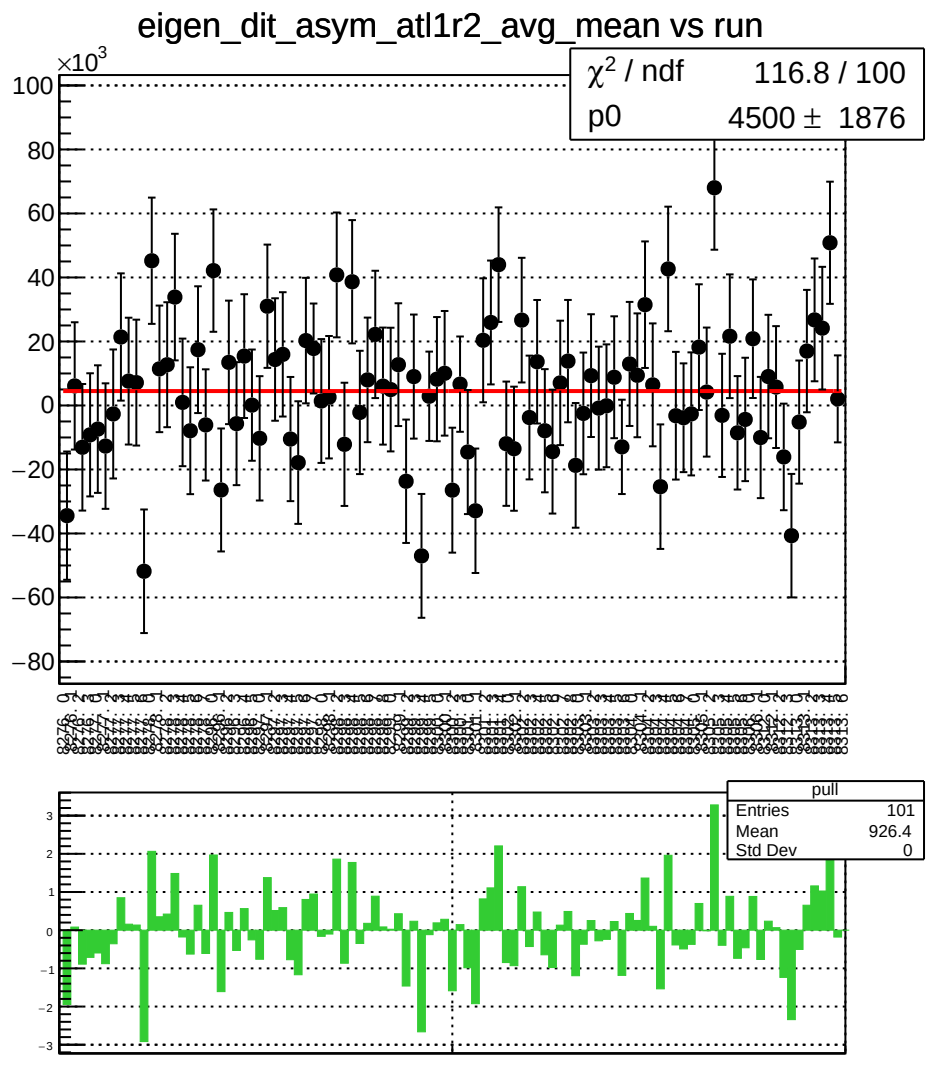

pull1D
Entries 101
Mean 0.003041
Std Dev 1.075

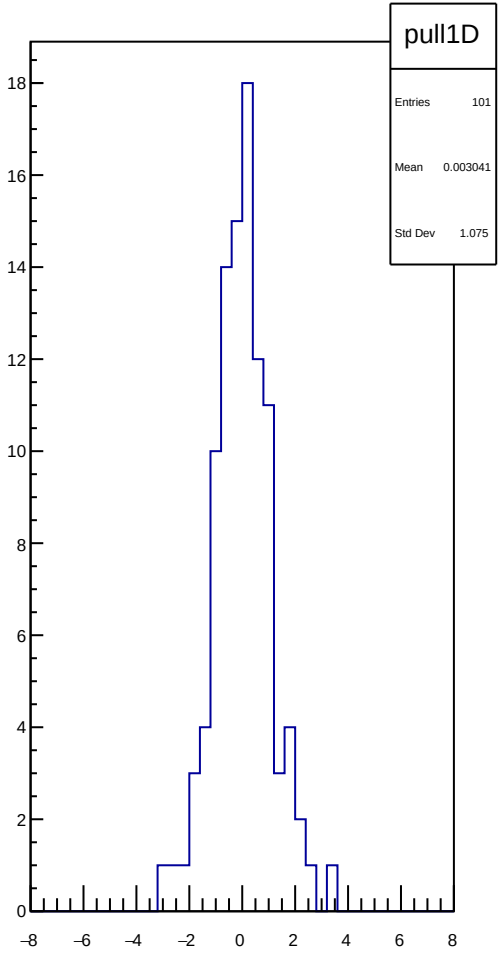

dit_asym_atl1r2_avg_rms vs run
χ² / ndf 340.5 / 100
p0 1842 ± 1.327
1940
1920
1900
1880
1860
1840
1820
1800
1780

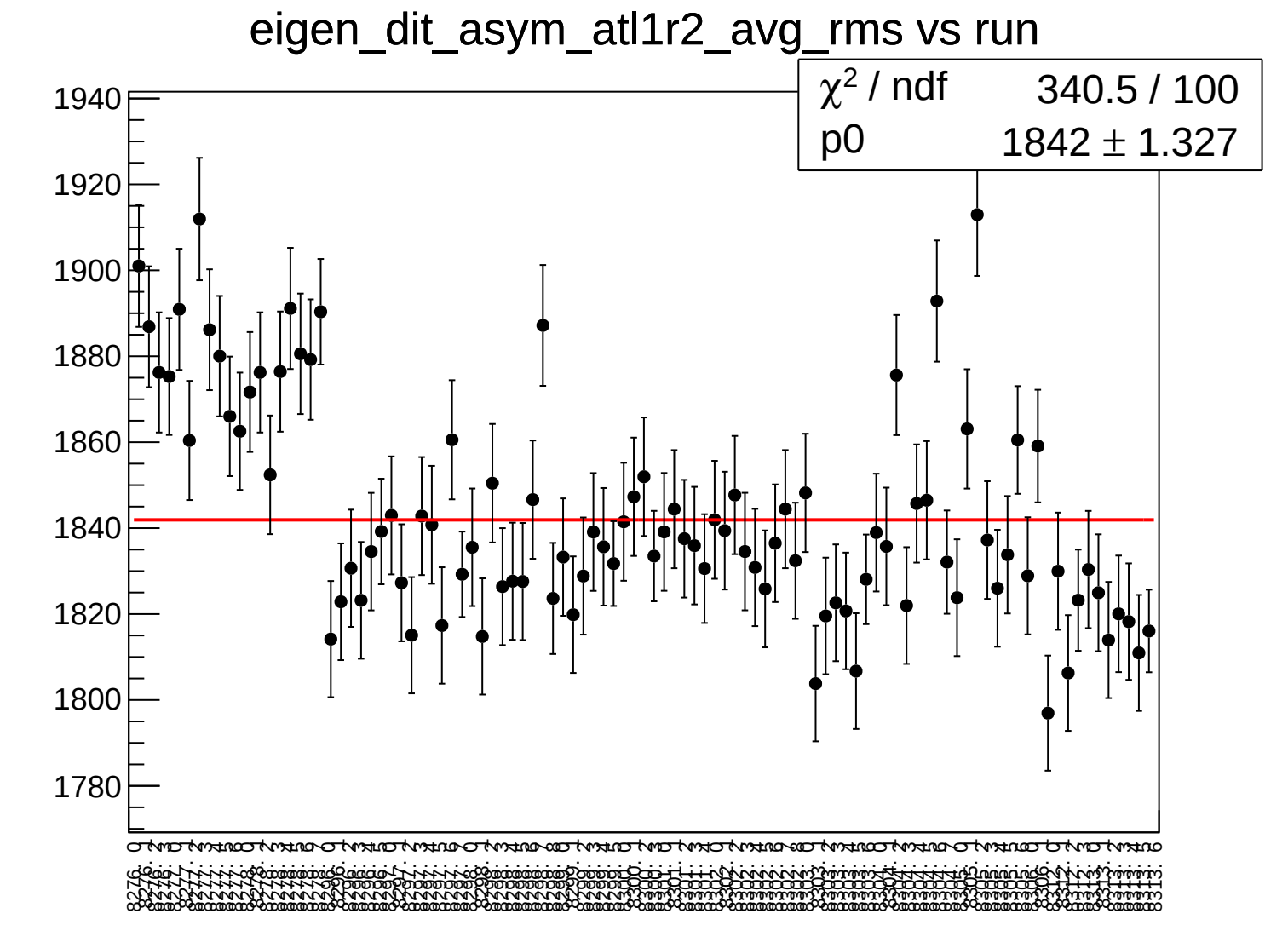

asym_atl1r2_avg_dit_correction_mean vs run
χ² / ndf 112.7 / 100
p0 −8107 ± 7651
×10³
300
200
100
0
−100
−200
−300
−400
pull
Entries 101
Mean −990.1
Std Dev 0
2
1
0
−1
−2
−3
−4

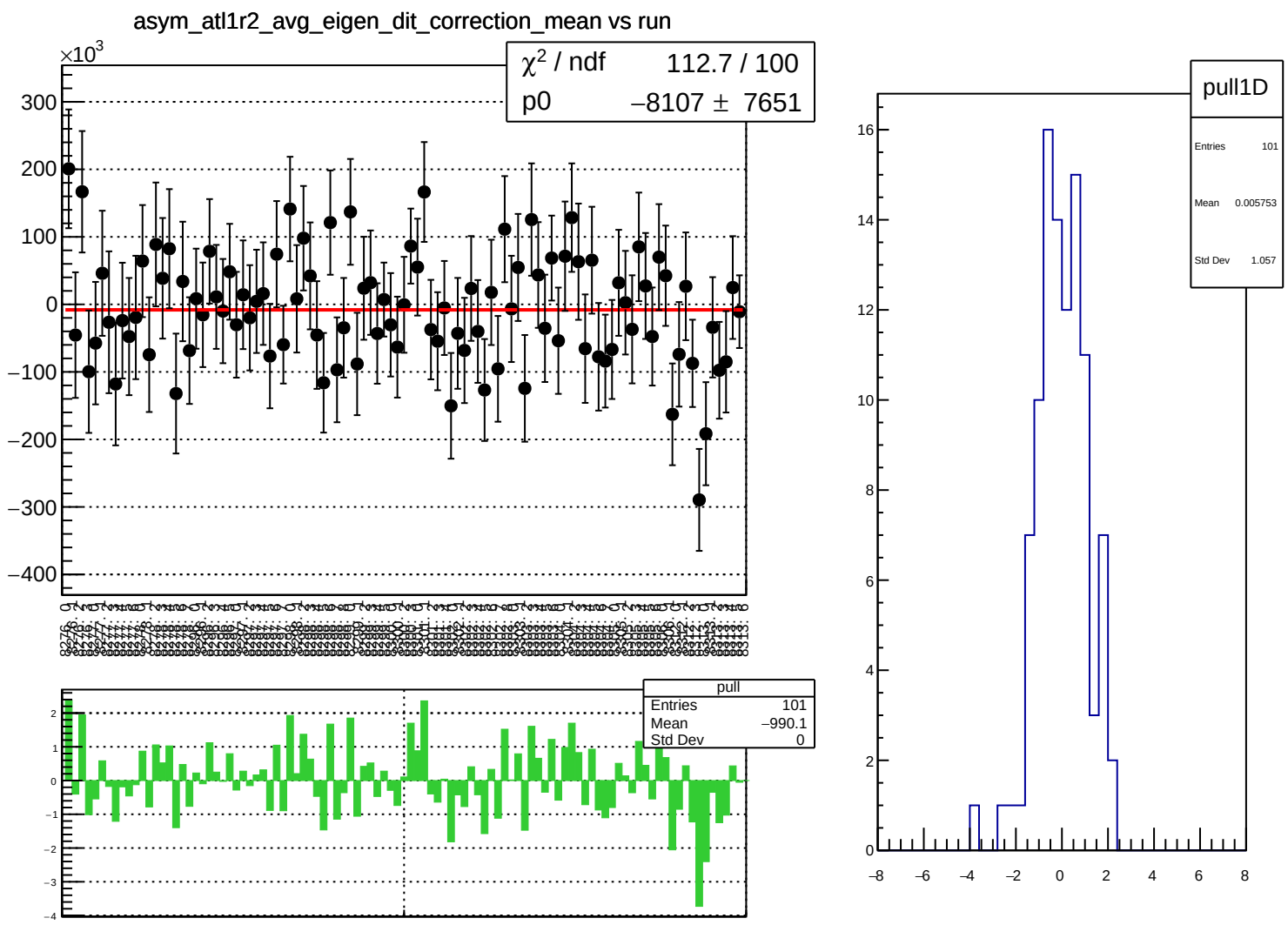

pull1D
Entries 101
Mean 0.005753
Std Dev 1.057
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

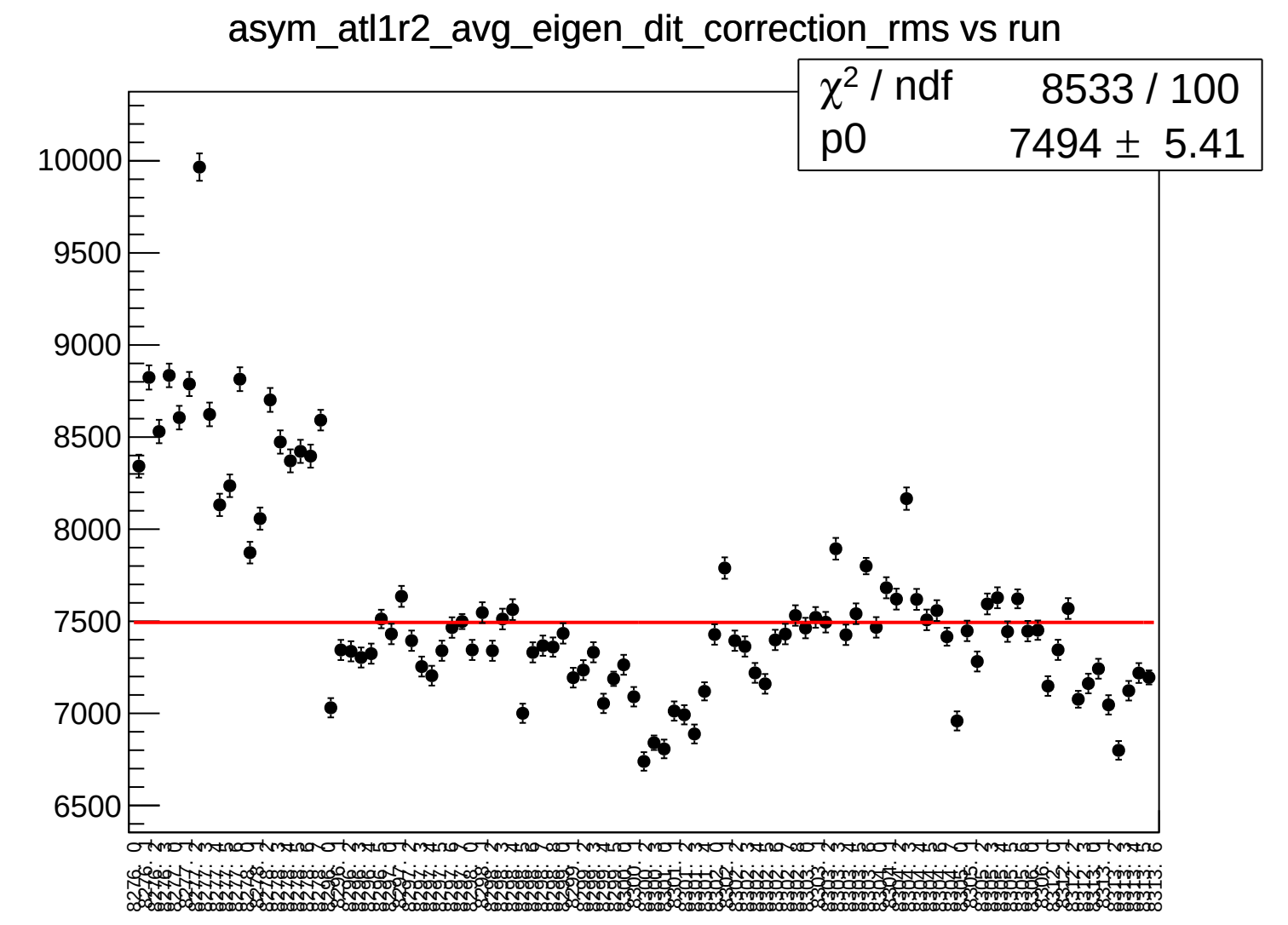

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 8534 / 100
p0 7494 ± 5.41
10000
9500
9000
8500
8000
7500
7000
6500

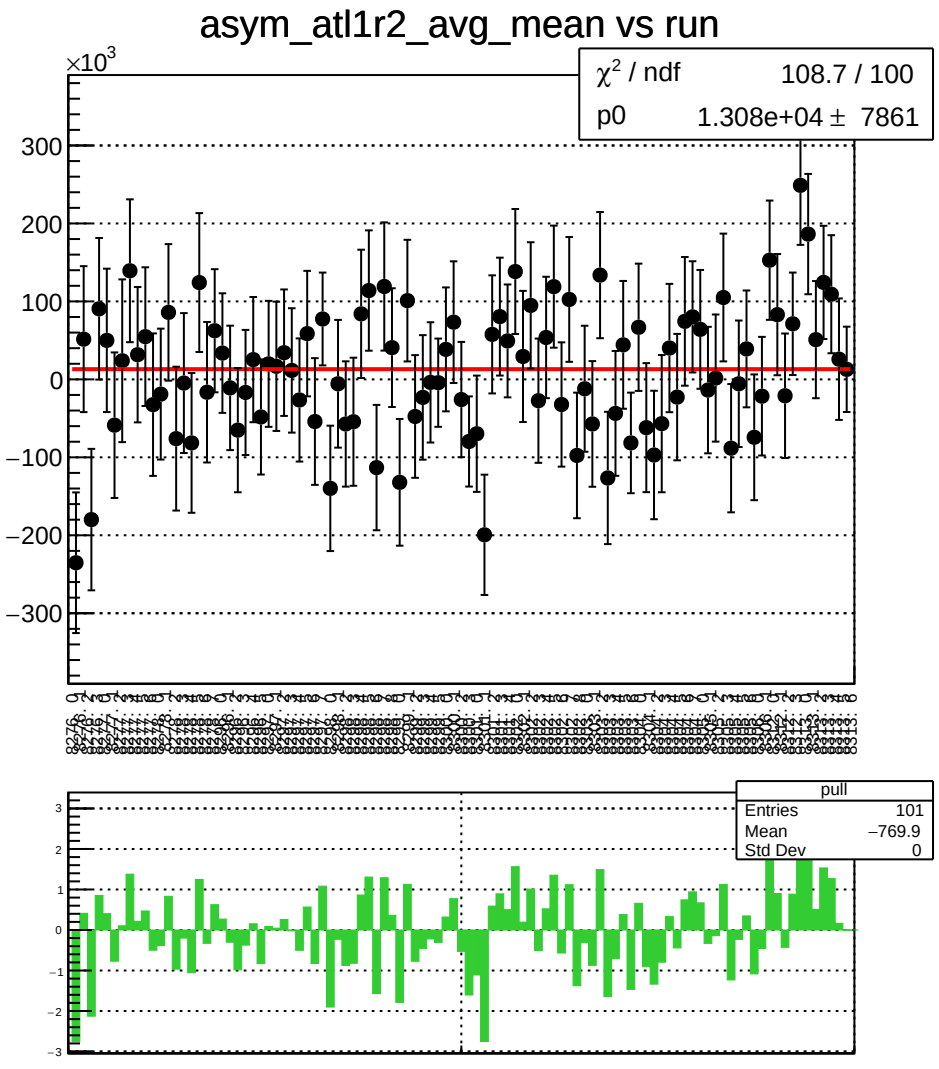

eigen_dit_asym_atl1r2_avg_mean vs run
×10^3
χ^2 / ndf 116.8 / 100
p0 4500 ± 1876
pull
Entries 101
Mean 926.4
Std Dev 0

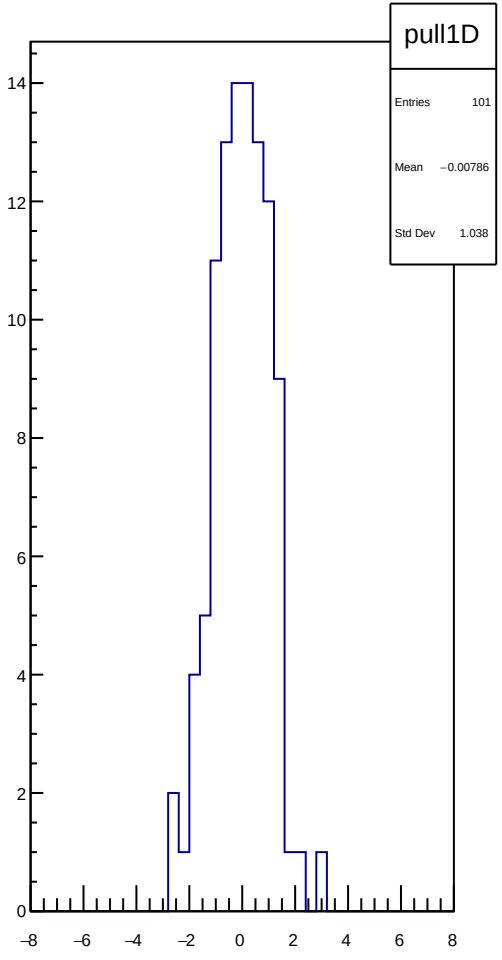

pull1D
Entries 101
Mean 0.003041
Std Dev 1.075

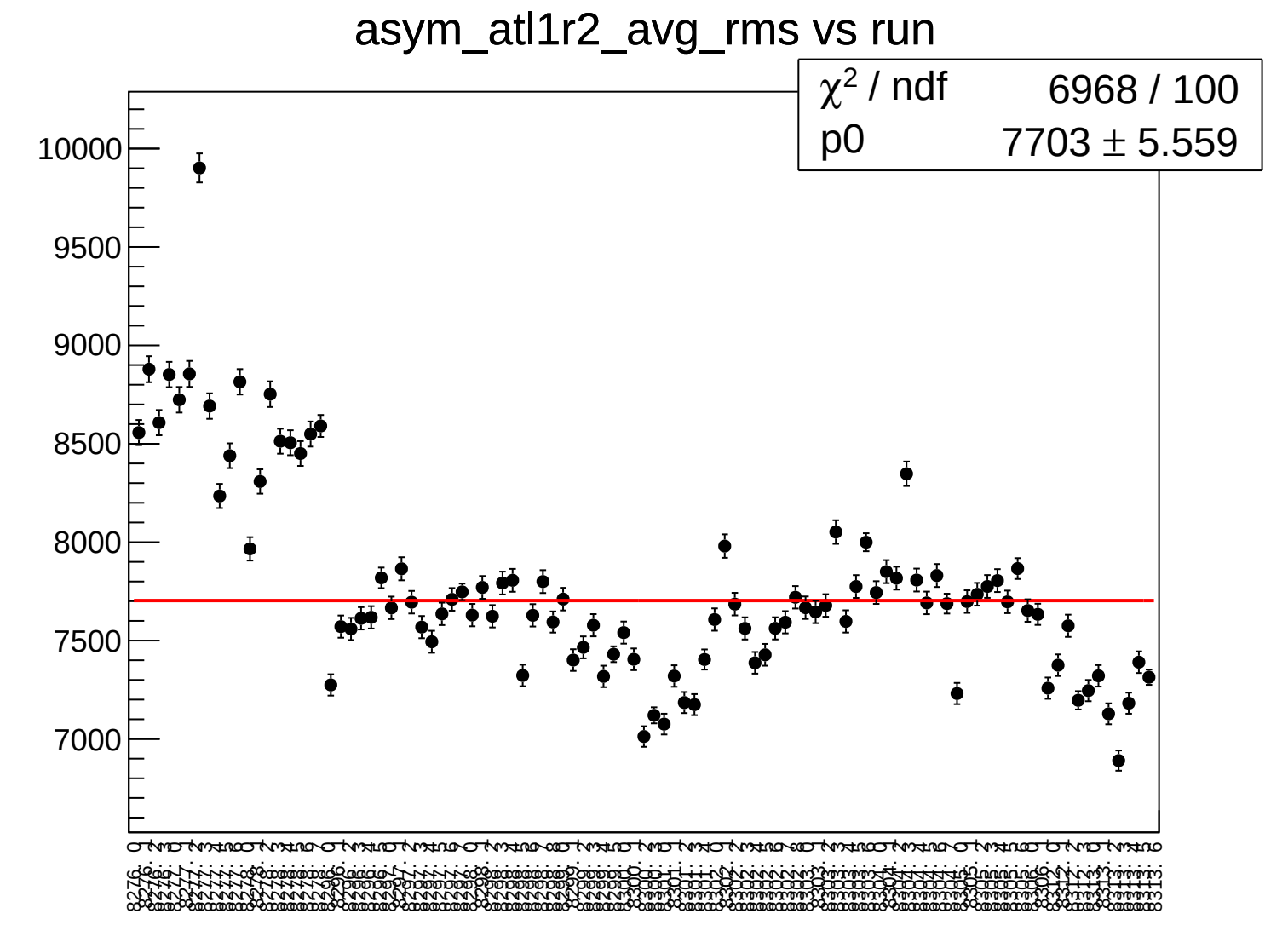

eigen_dit_asym_atl1r2_avg_rms vs run
χ² / ndf 340.5 / 100
p0 1842 ± 1.327
1940
1920
1900
1880
1860
1840
1820
1800
1780

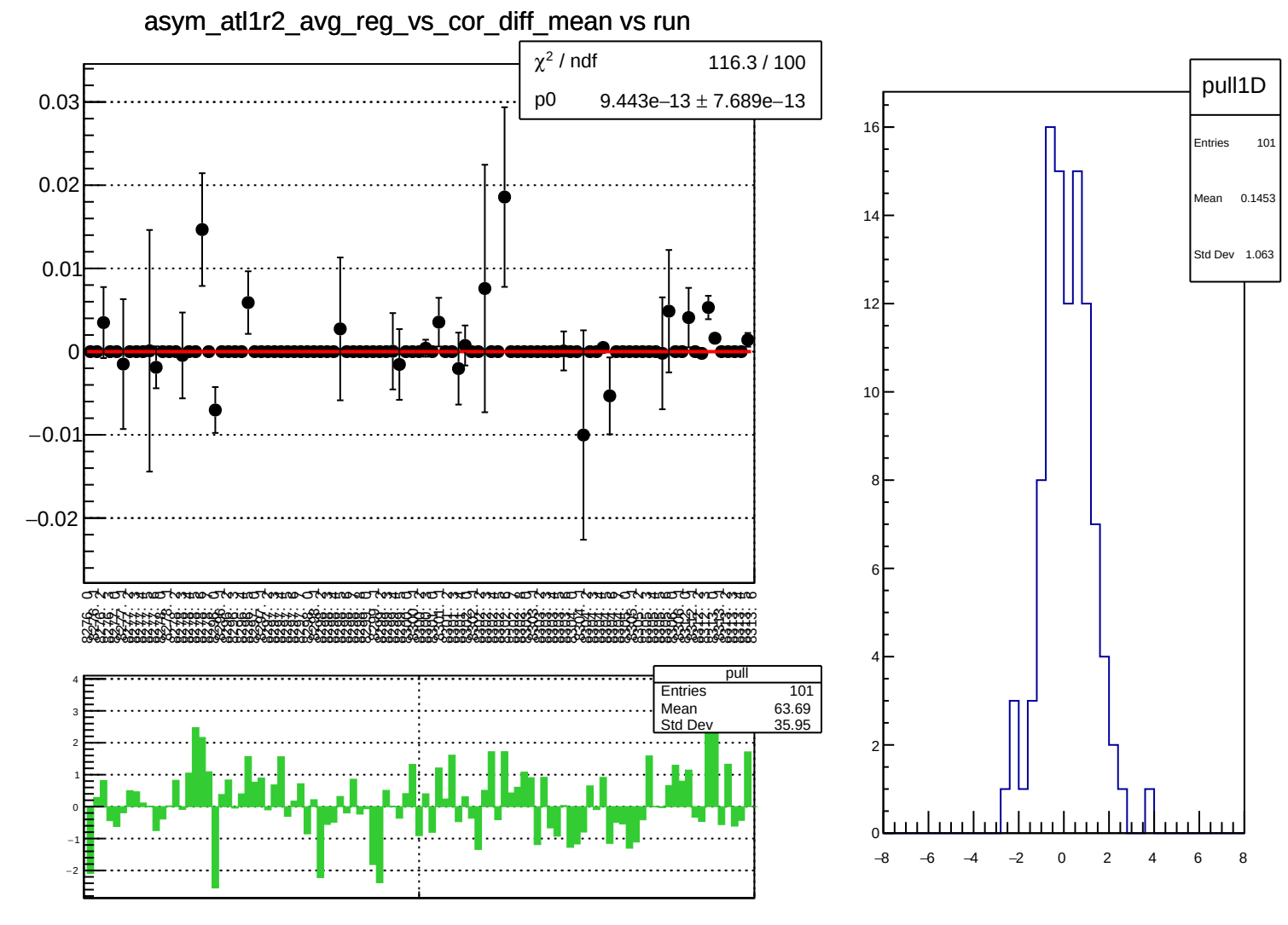

asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 112.7 / 100
p0 −8107 ± 7651
300
200
100
0
−100
−200
−300
−400
pull
Entries 101
Mean −990.1
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 101
Mean 0.005753
Std Dev 1.057
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

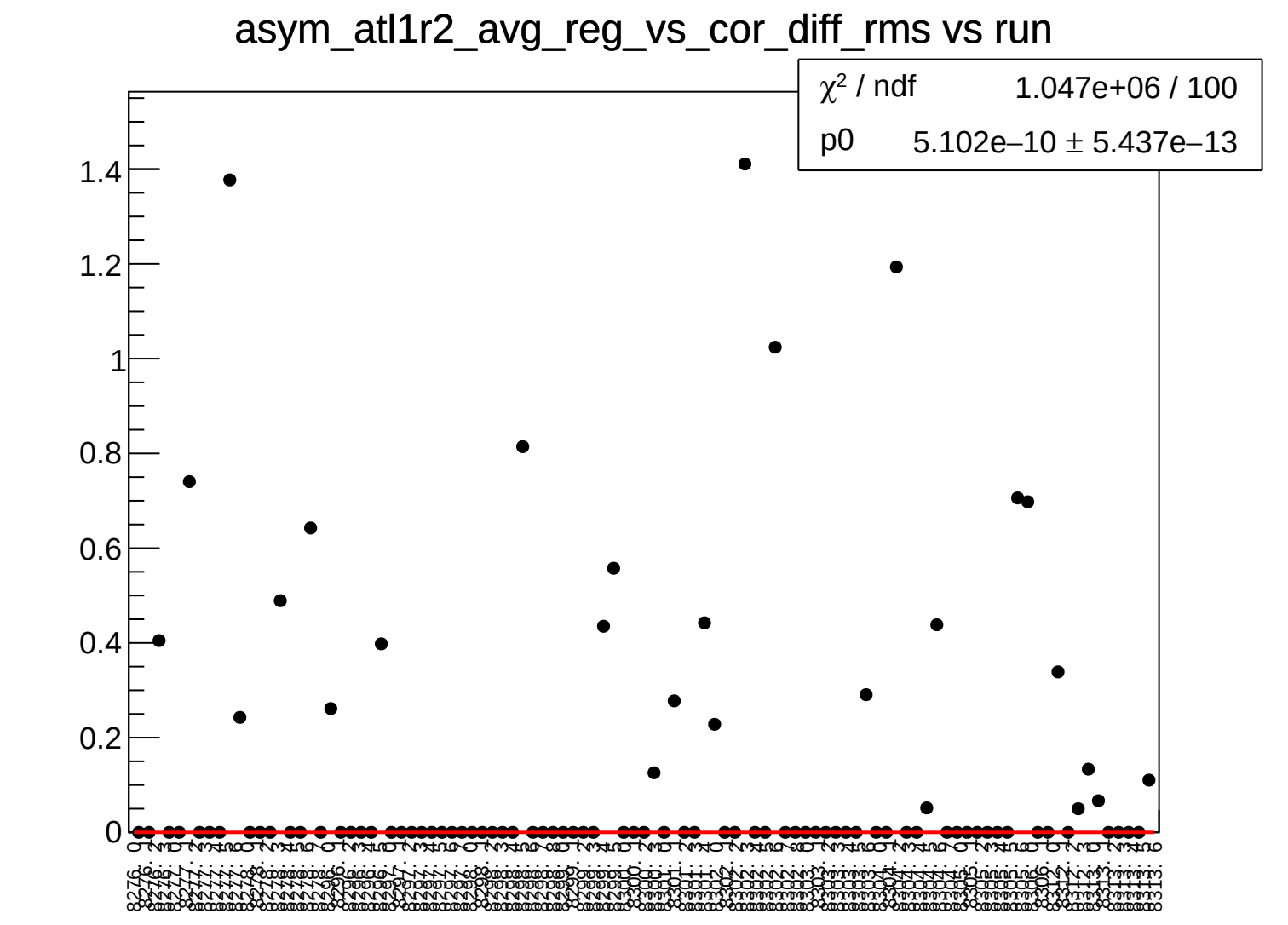

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 8533 / 100
p0 7494 ± 5.41
10000
9500
9000
8500
8000
7500
7000
6500

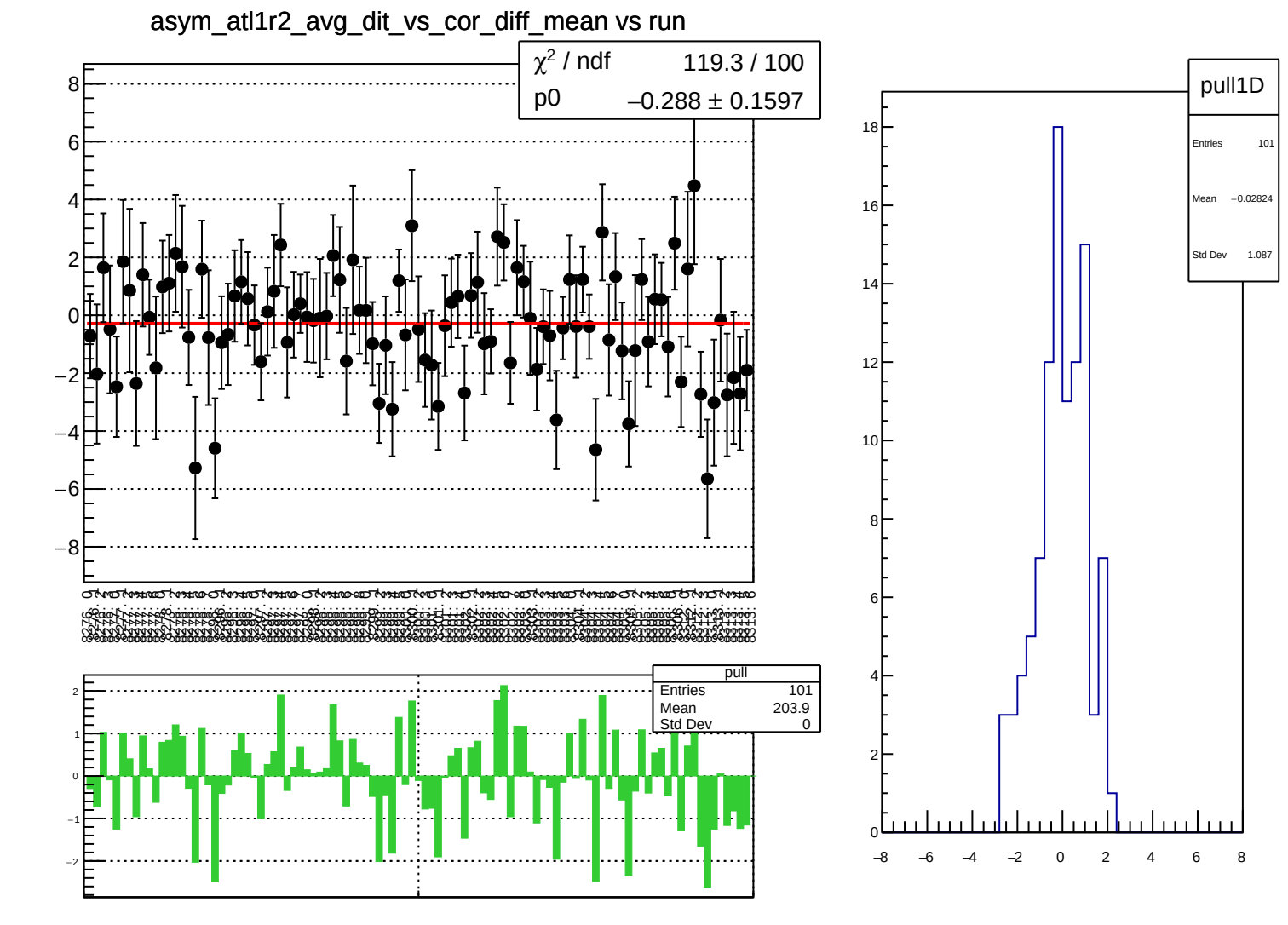

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 108.7 / 100
p0 1.308e+04 ± 7861
300
200
100
0
−100
−200
−300
pull
Entries 101
Mean −769.9
Std Dev 0
3
2
1
0
−1
−2
−3

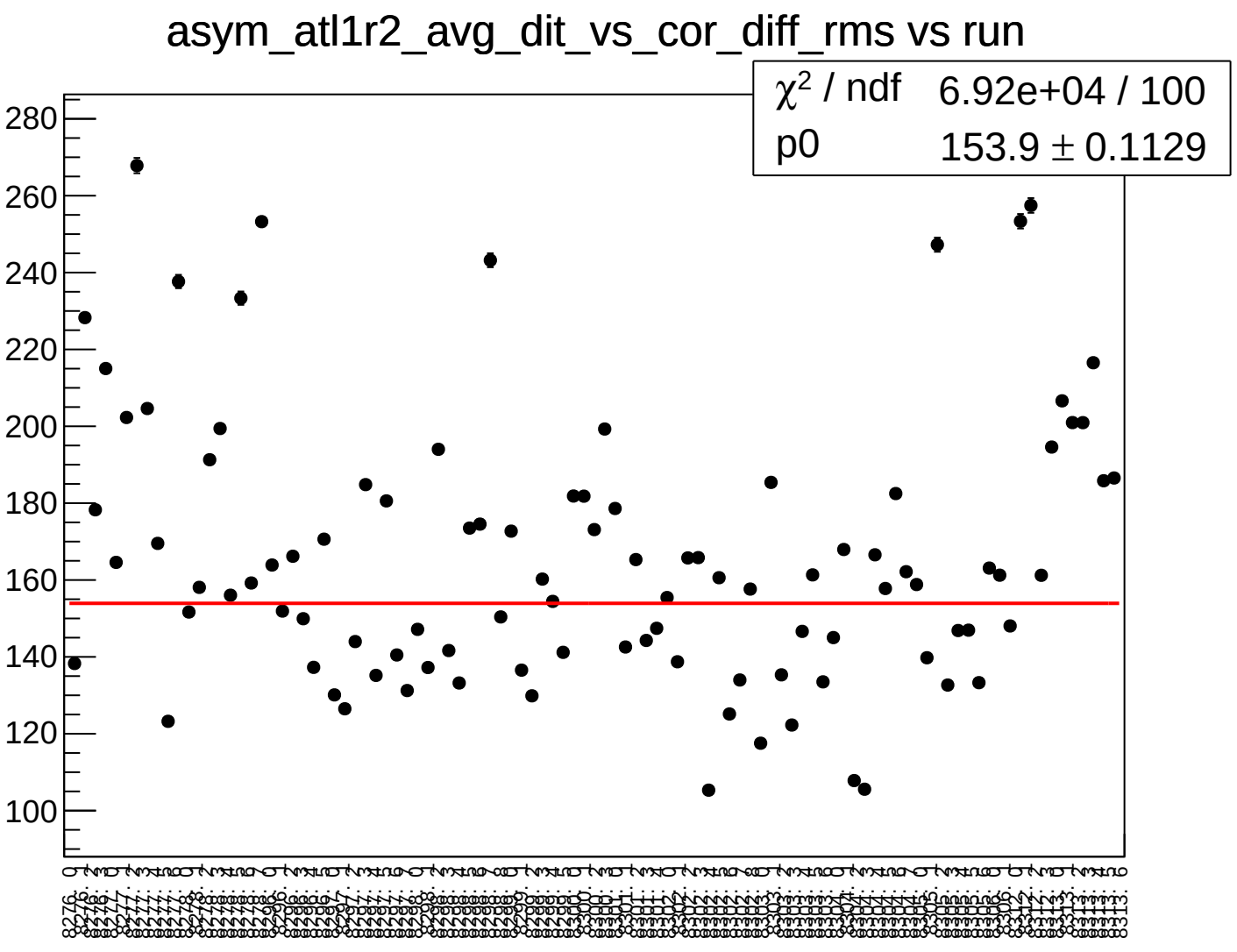

pull1D
Entries 101
Mean −0.00786
Std Dev 1.038
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

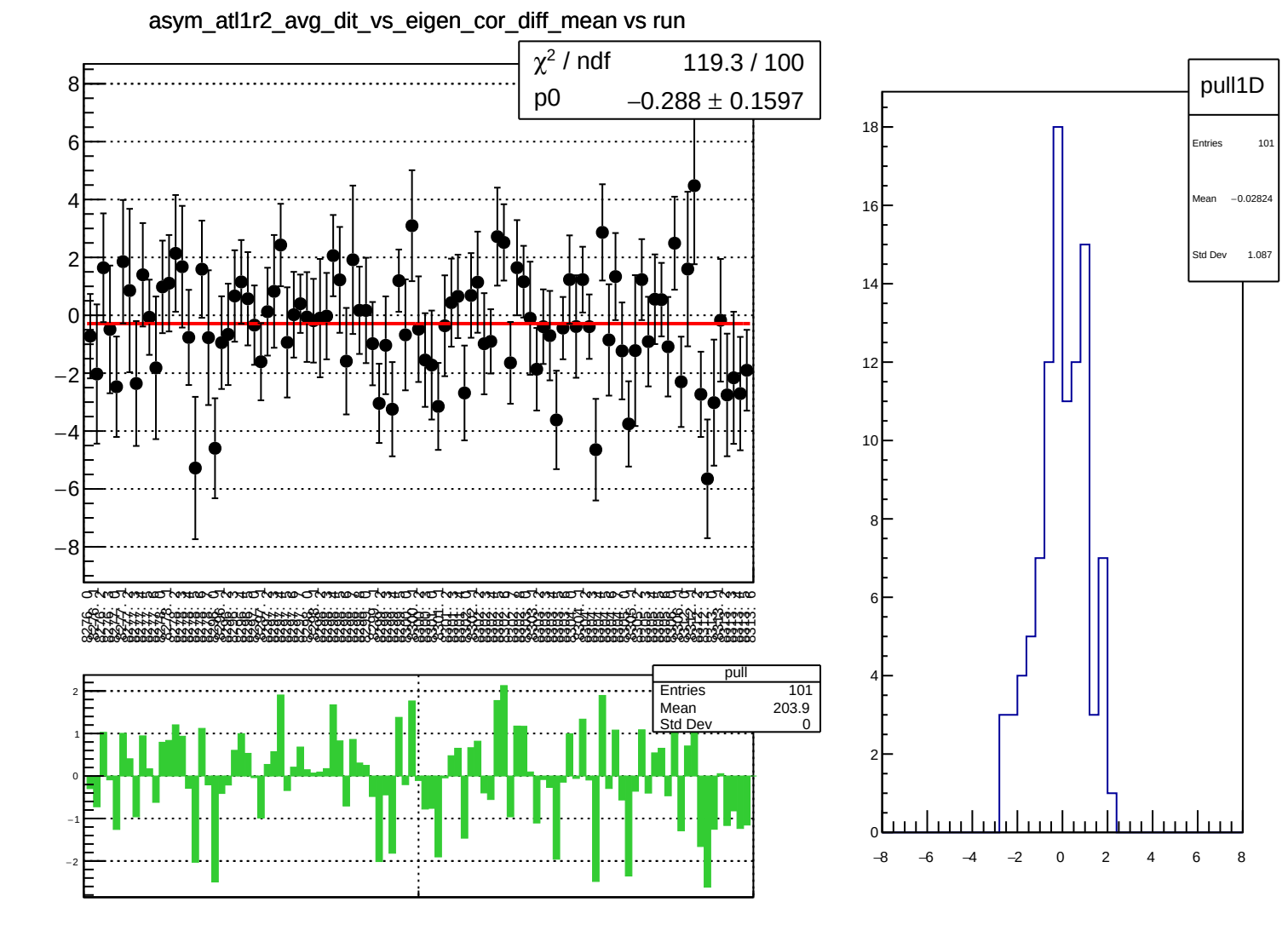

asym_atl1r2_avg_rms vs run
χ^2 / ndf 6968 / 100
p0 7703 ± 5.559
10000
9500
9000
8500
8000
7500
7000

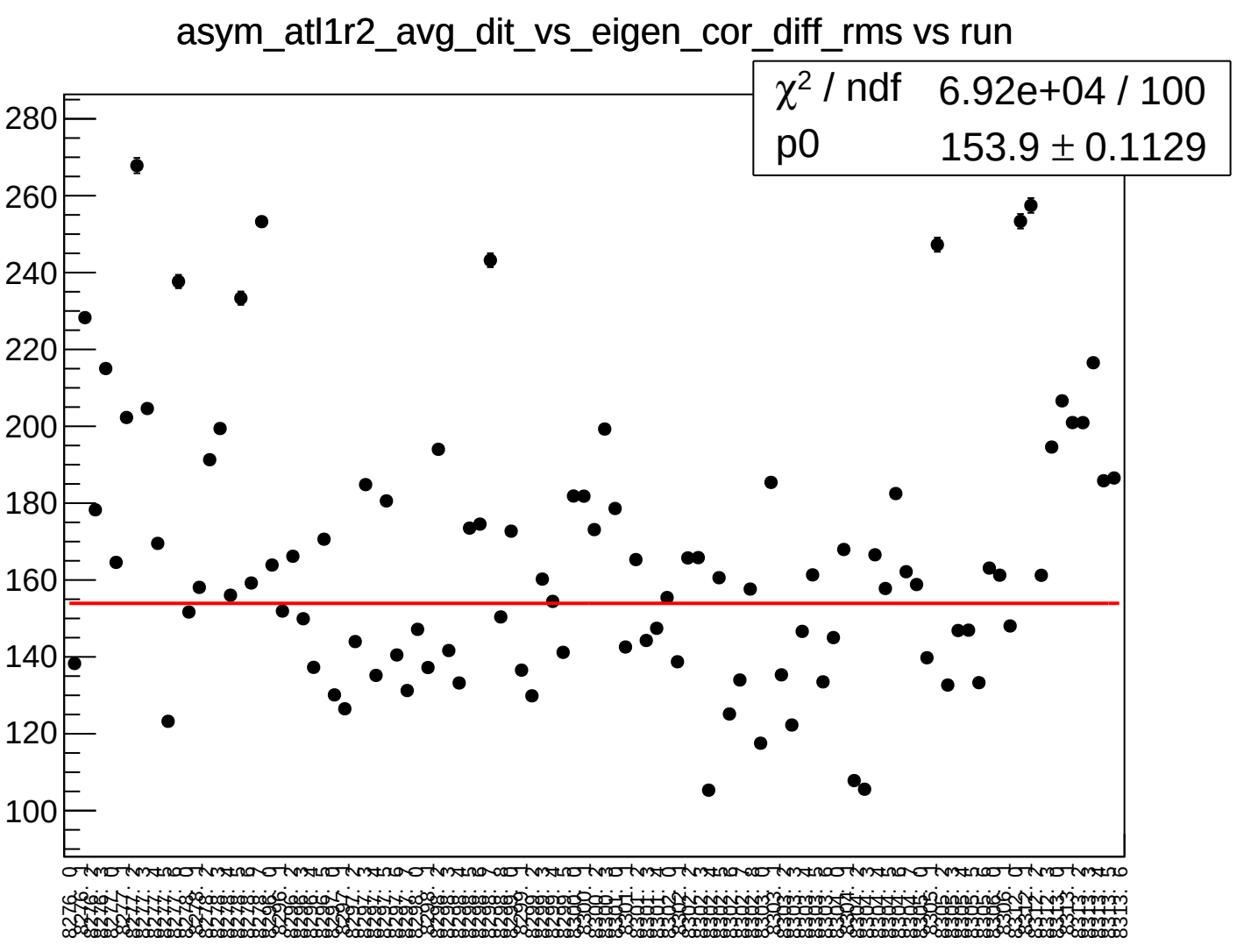

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 116.3 / 100
p0 9.443e−13 ± 7.689e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 101
Mean 63.69
Std Dev 35.95
pull1D
Entries 101
Mean 0.1453
Std Dev 1.063

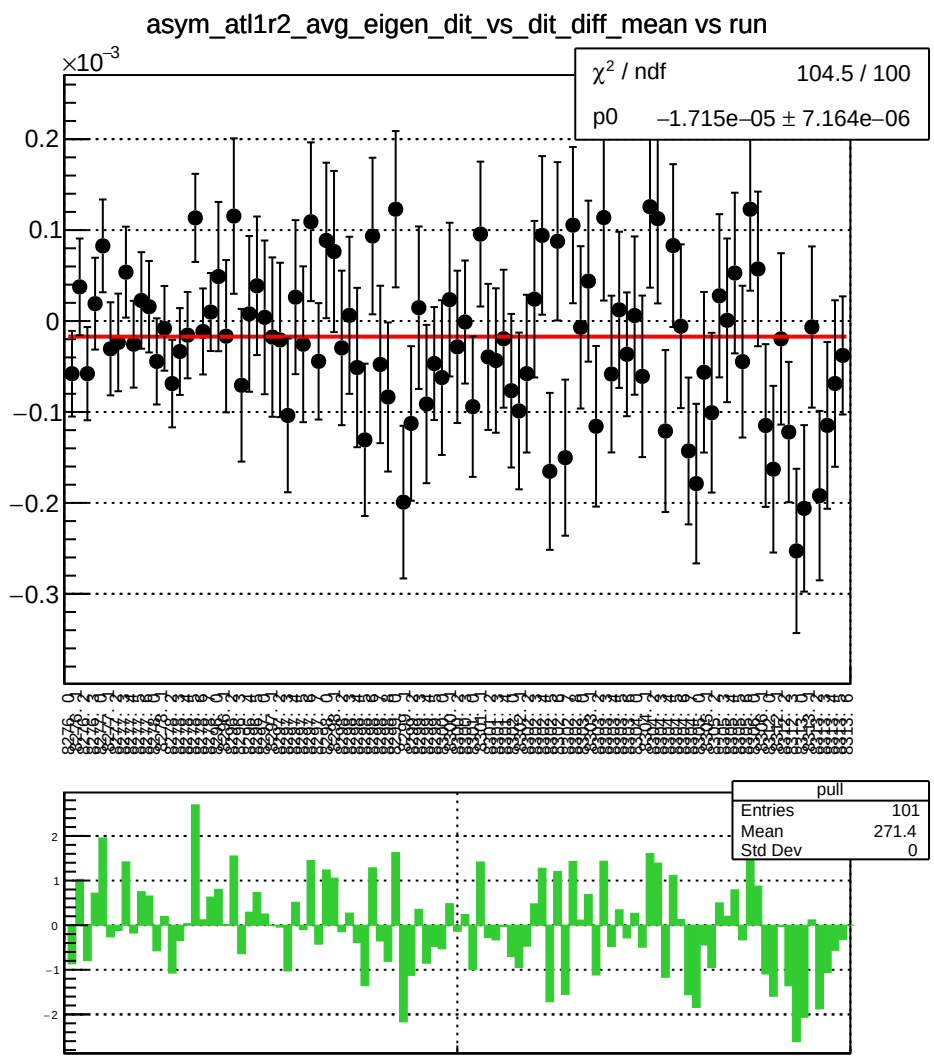

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.047e+06 / 100
p0 5.102e−10 ± 5.437e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

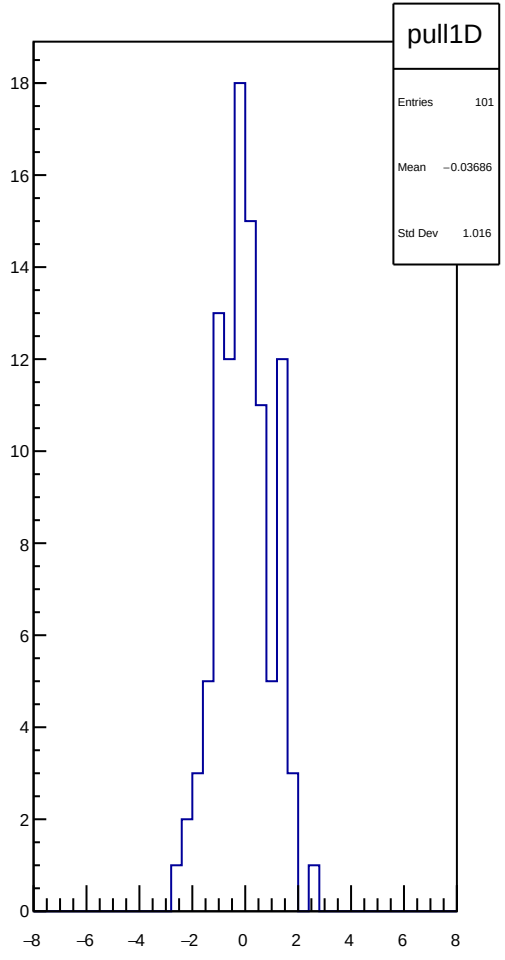

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 119.3 / 100
p0 −0.288 ± 0.1597
pull
Entries 101
Mean 203.9
Std Dev 0
pull1D
Entries 101
Mean −0.02824
Std Dev 1.087

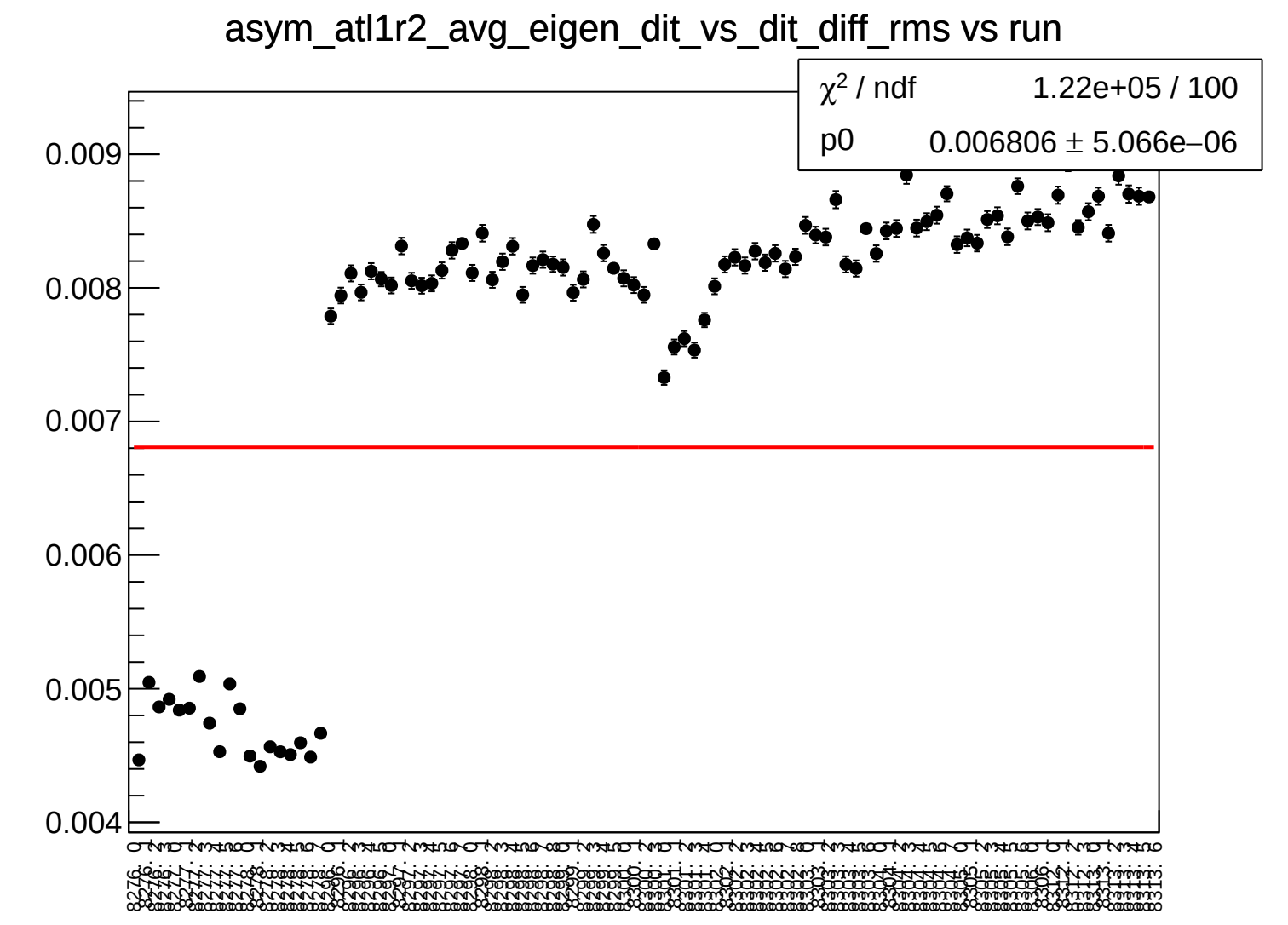

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.92e+04 / 100
p0 153.9 ± 0.1129
280
260
240
220
200
180
160
140
120
100

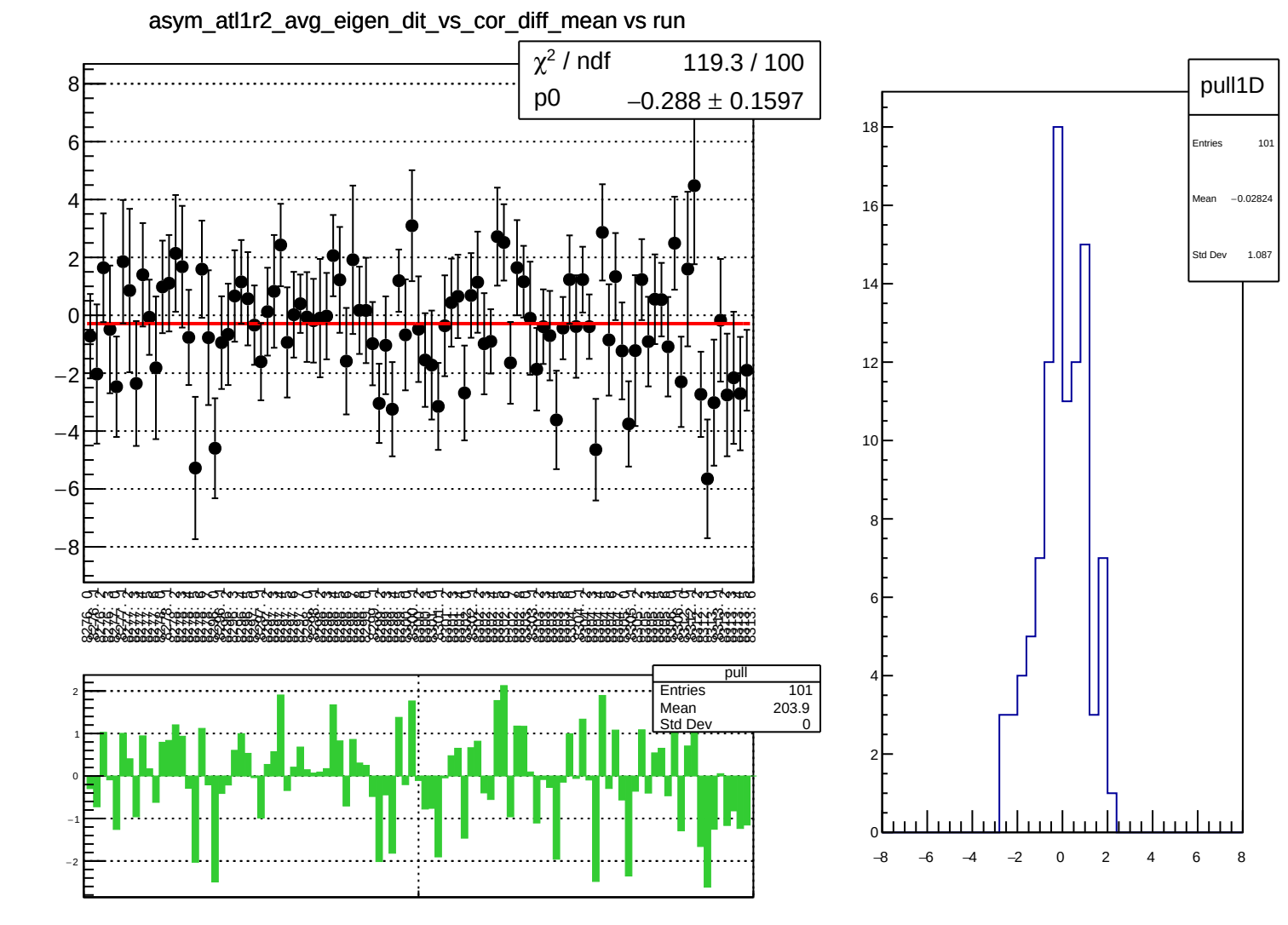

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 119.3 / 100
p0 −0.288 ± 0.1597
pull
Entries 101
Mean 203.9
Std Dev 0
pull1D
Entries 101
Mean −0.02824
Std Dev 1.087

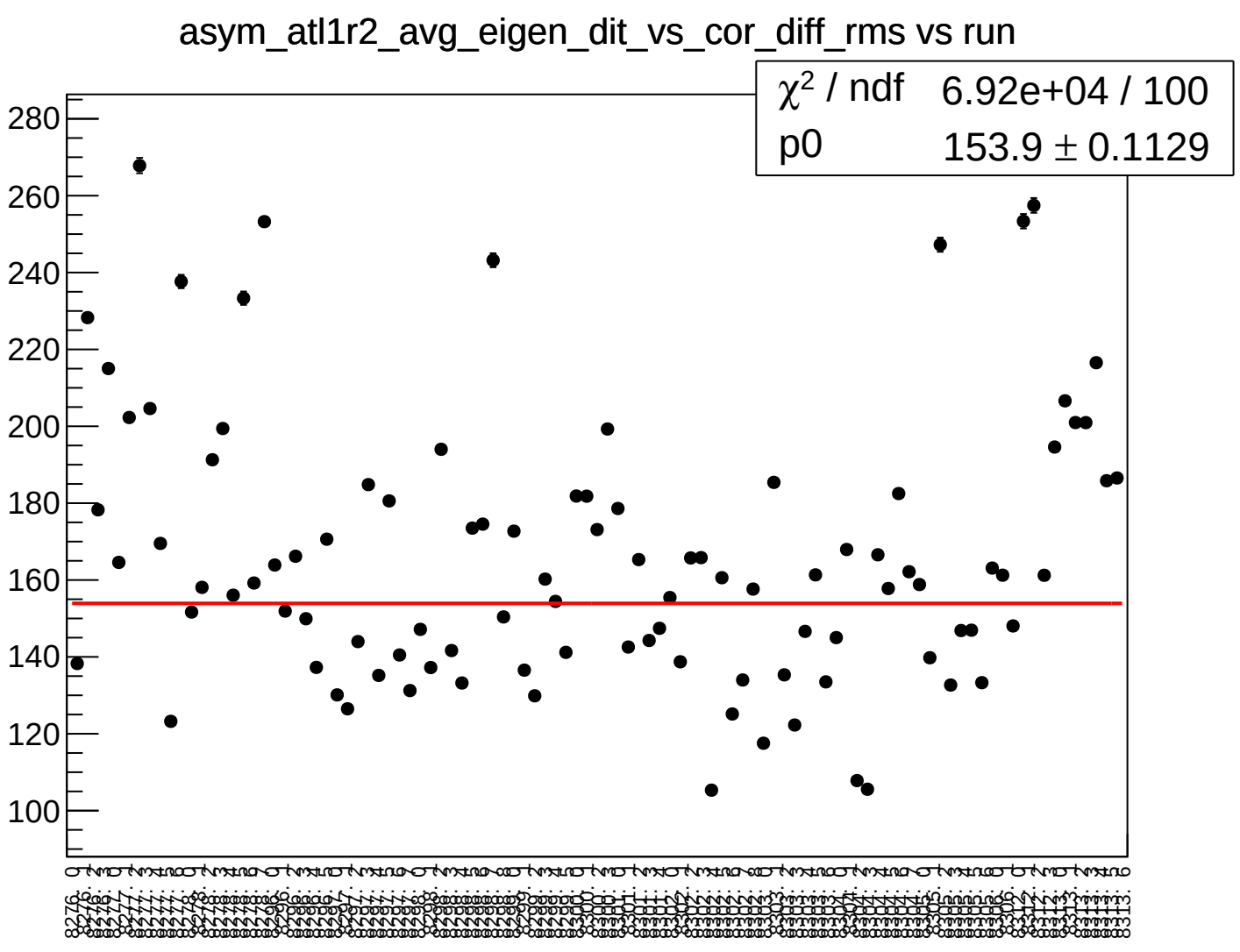

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.92e+04 / 100
p0 153.9 ± 0.1129
280
260
240
220
200
180
160
140
120
100

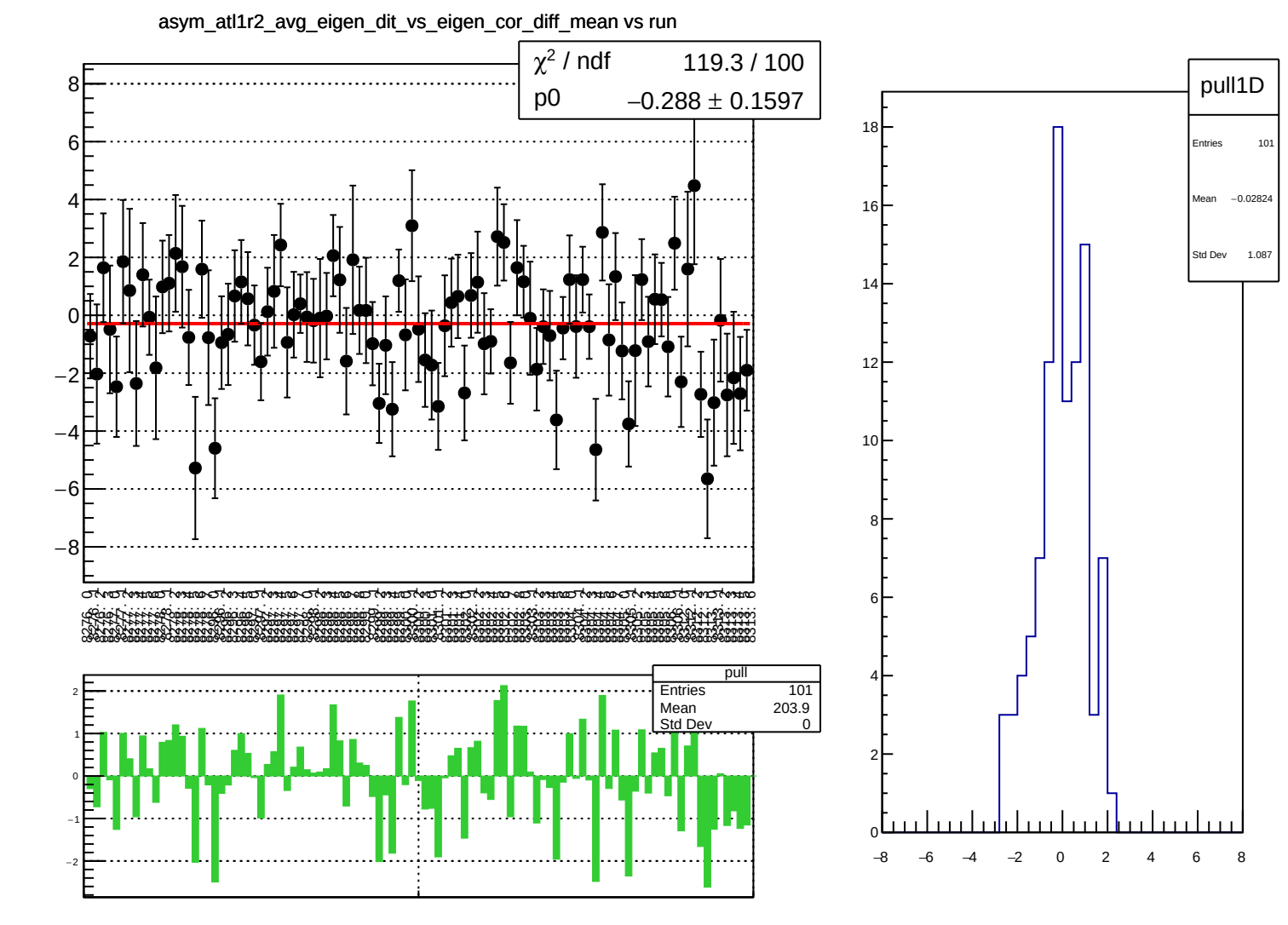

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 104.5 / 100
p0 −1.715e−05 ± 7.164e−06
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 101
Mean 271.4
Std Dev 0
2
1
0
−1
−2

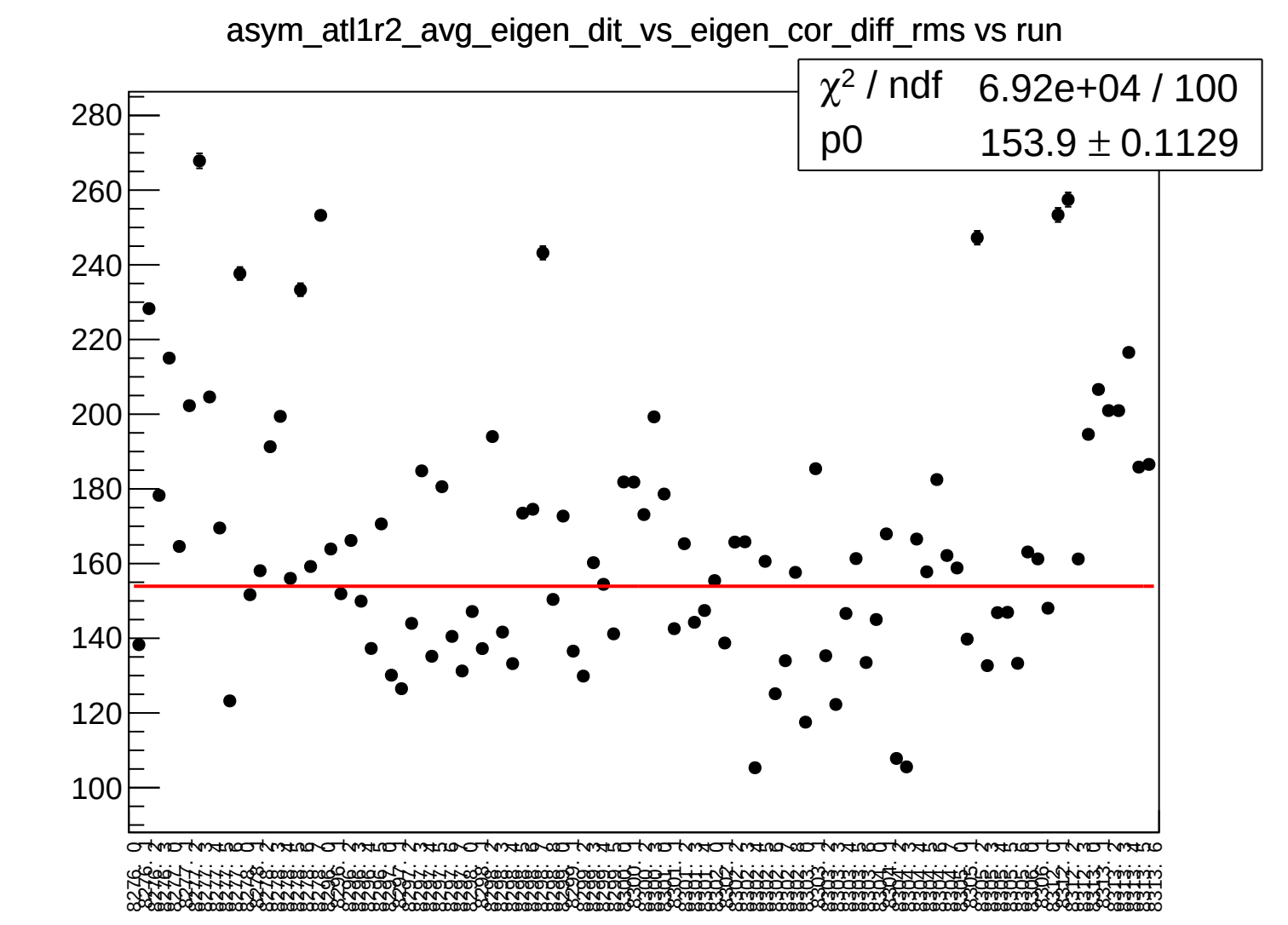

pull1D
Entries 101
Mean −0.03686
Std Dev 1.016
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

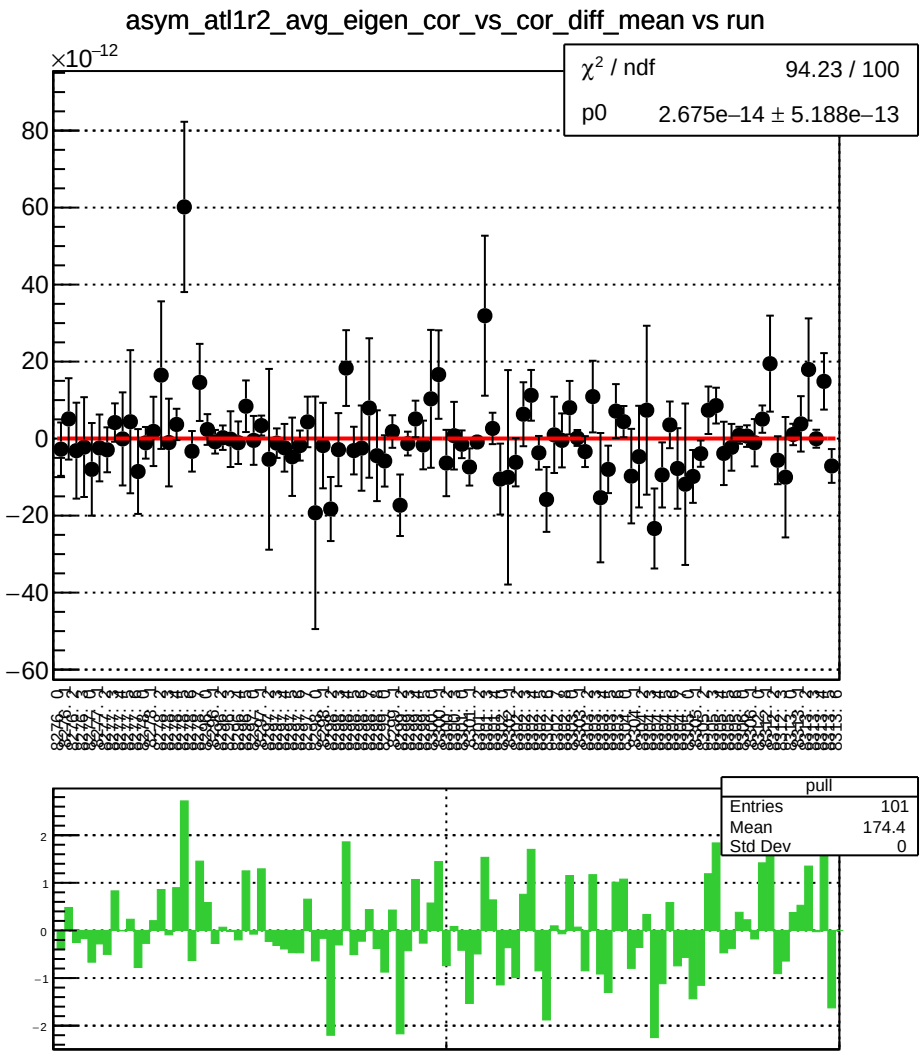

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.22e+05 / 100
p0 0.006806 ± 5.066e−06
0.009
0.008
0.007
0.006
0.005
0.004

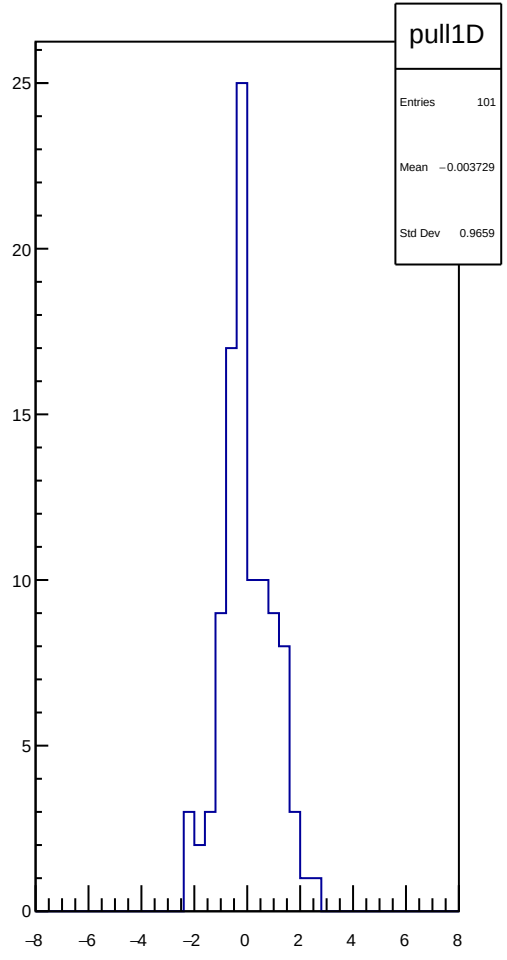

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 119.3 / 100
p0 −0.288 ± 0.1597
pull
Entries 101
Mean 203.9
Std Dev 0
pull1D
Entries 101
Mean −0.02824
Std Dev 1.087

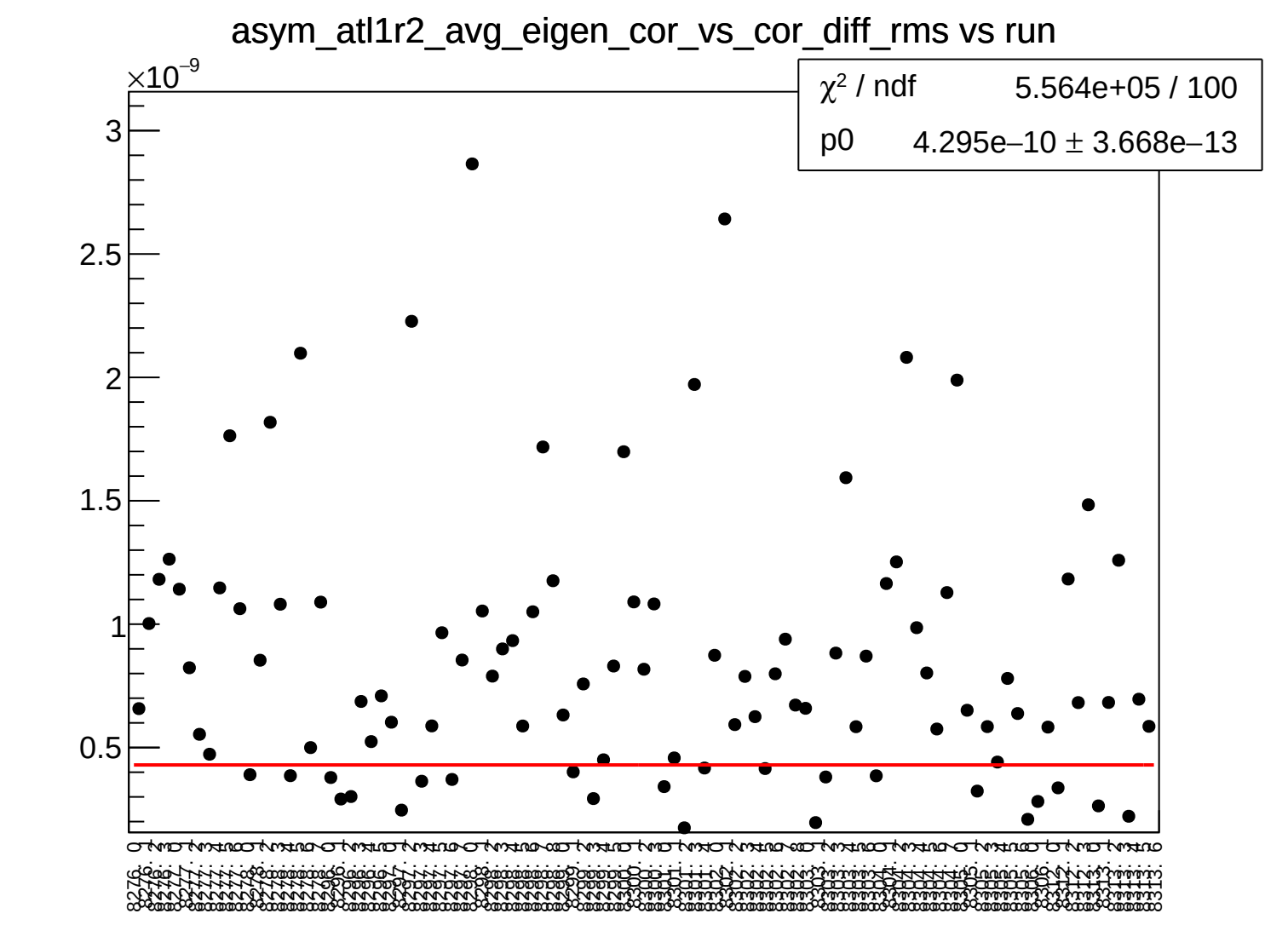

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.92e+04 / 100
p0 153.9 ± 0.1129
280
260
240
220
200
180
160
140
120
100

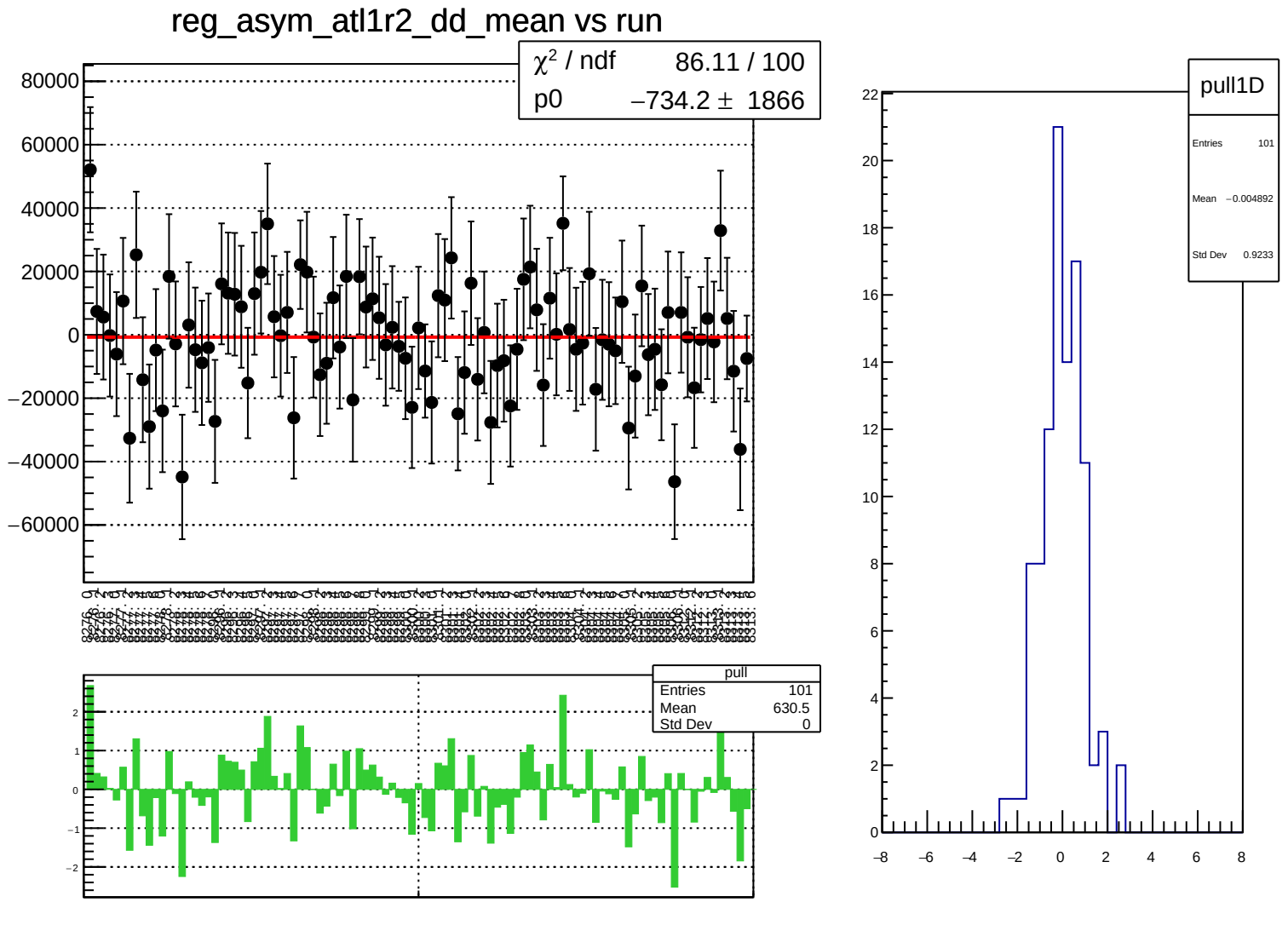

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 119.3 / 100
p0 −0.288 ± 0.1597
pull
Entries 101
Mean 203.9
Std Dev 0
pull1D
Entries 101
Mean −0.02824
Std Dev 1.087

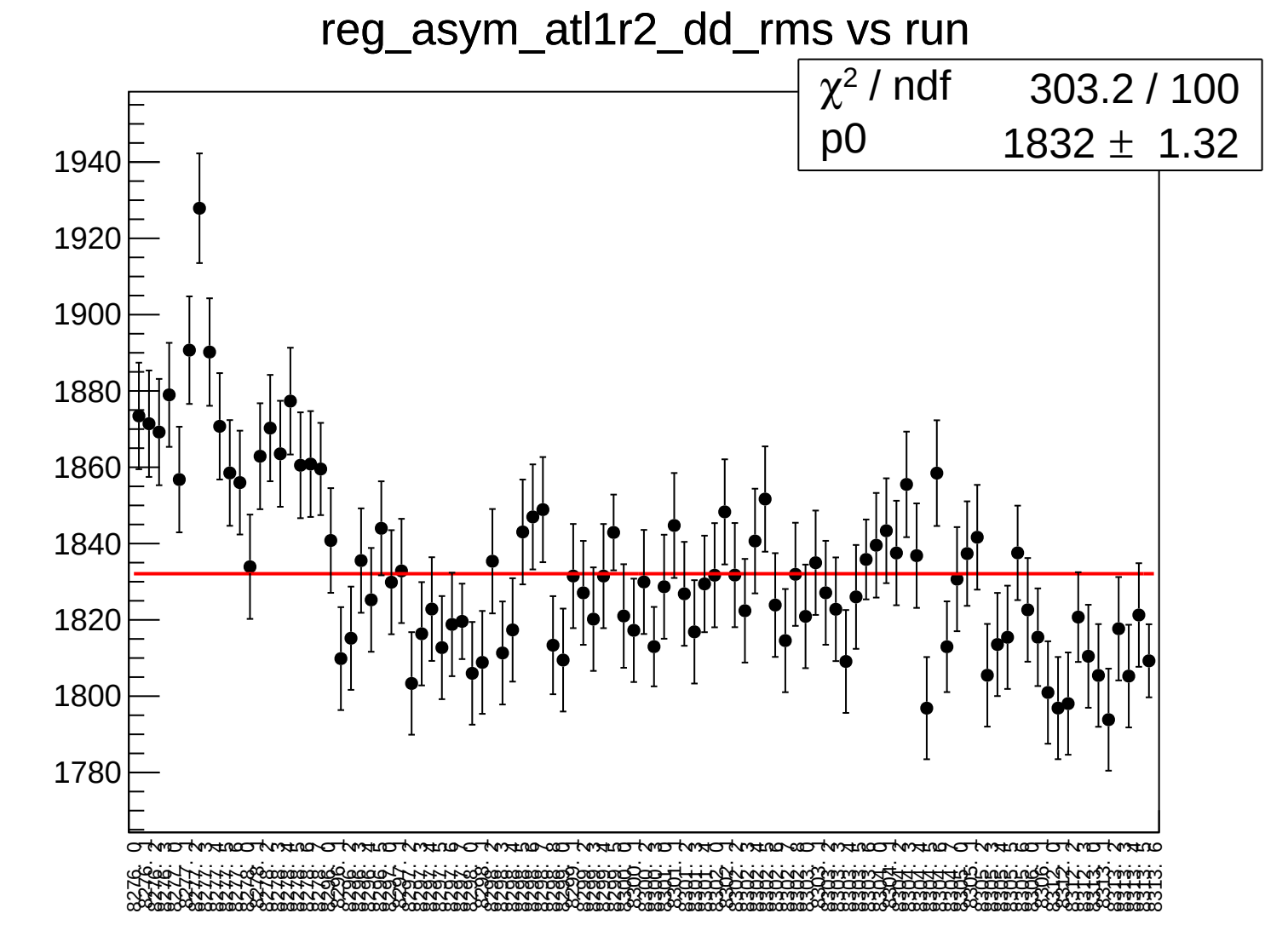

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.92e+04 / 100
p0 153.9 ± 0.1129
280
260
240
220
200
180
160
140
120
100

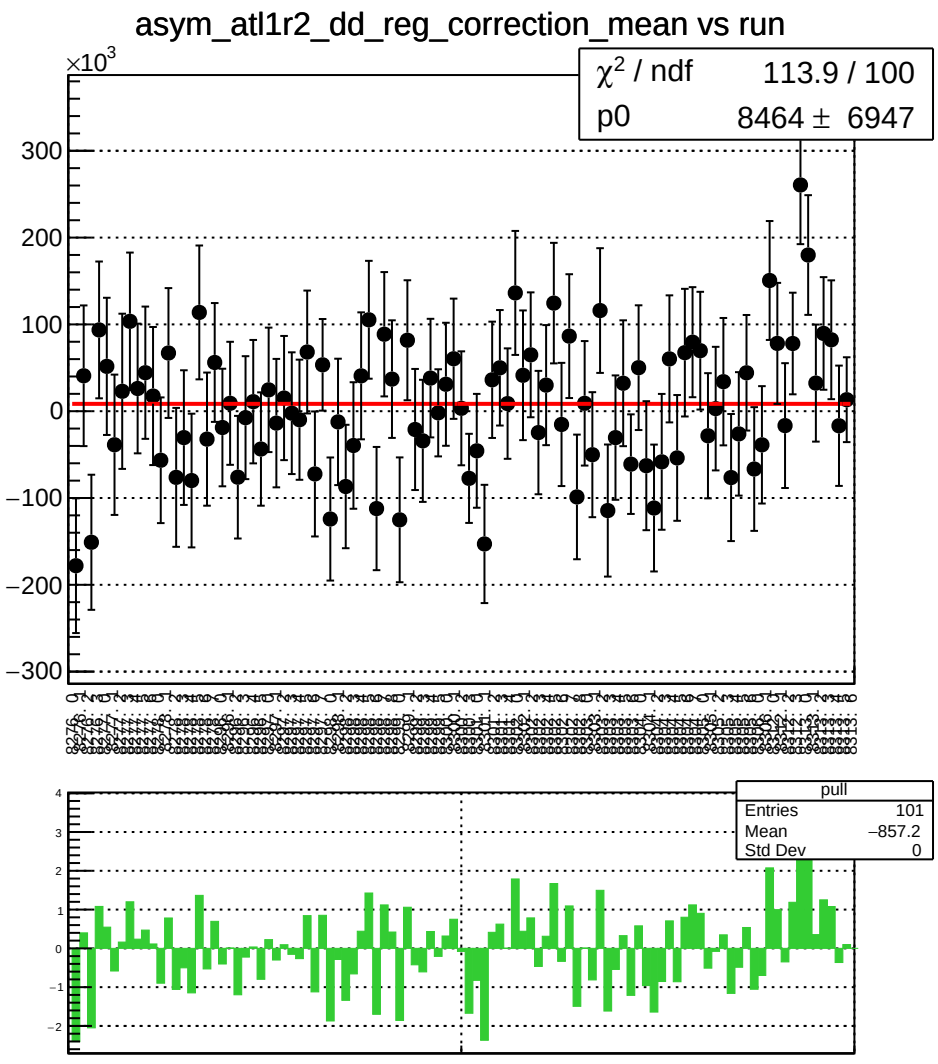

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.23 / 100
p0 2.675e−14 ± 5.188e−13
80
60
40
20
0
−20
−40
−60
pull
Entries 101
Mean 174.4
Std Dev 0
2
1
0
−1
−2

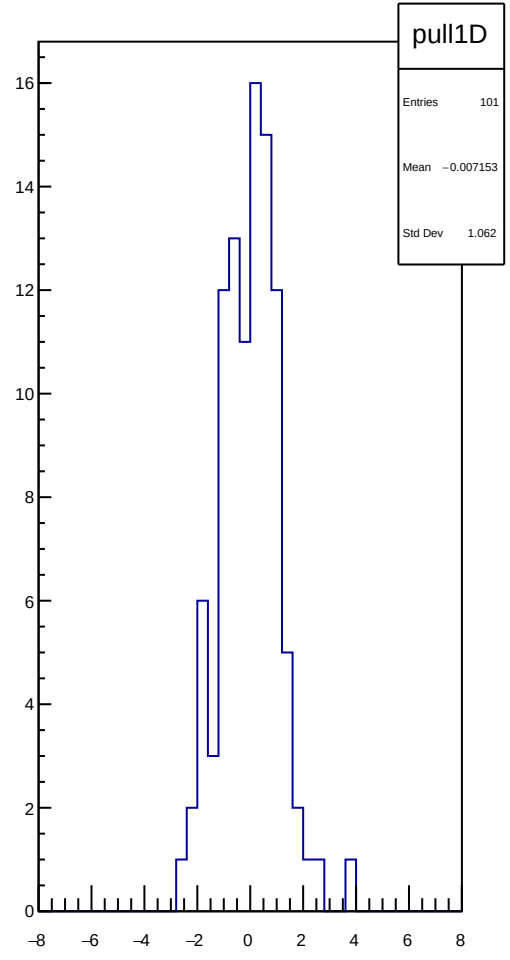

pull1D
Entries 101
Mean −0.003729
Std Dev 0.9659
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

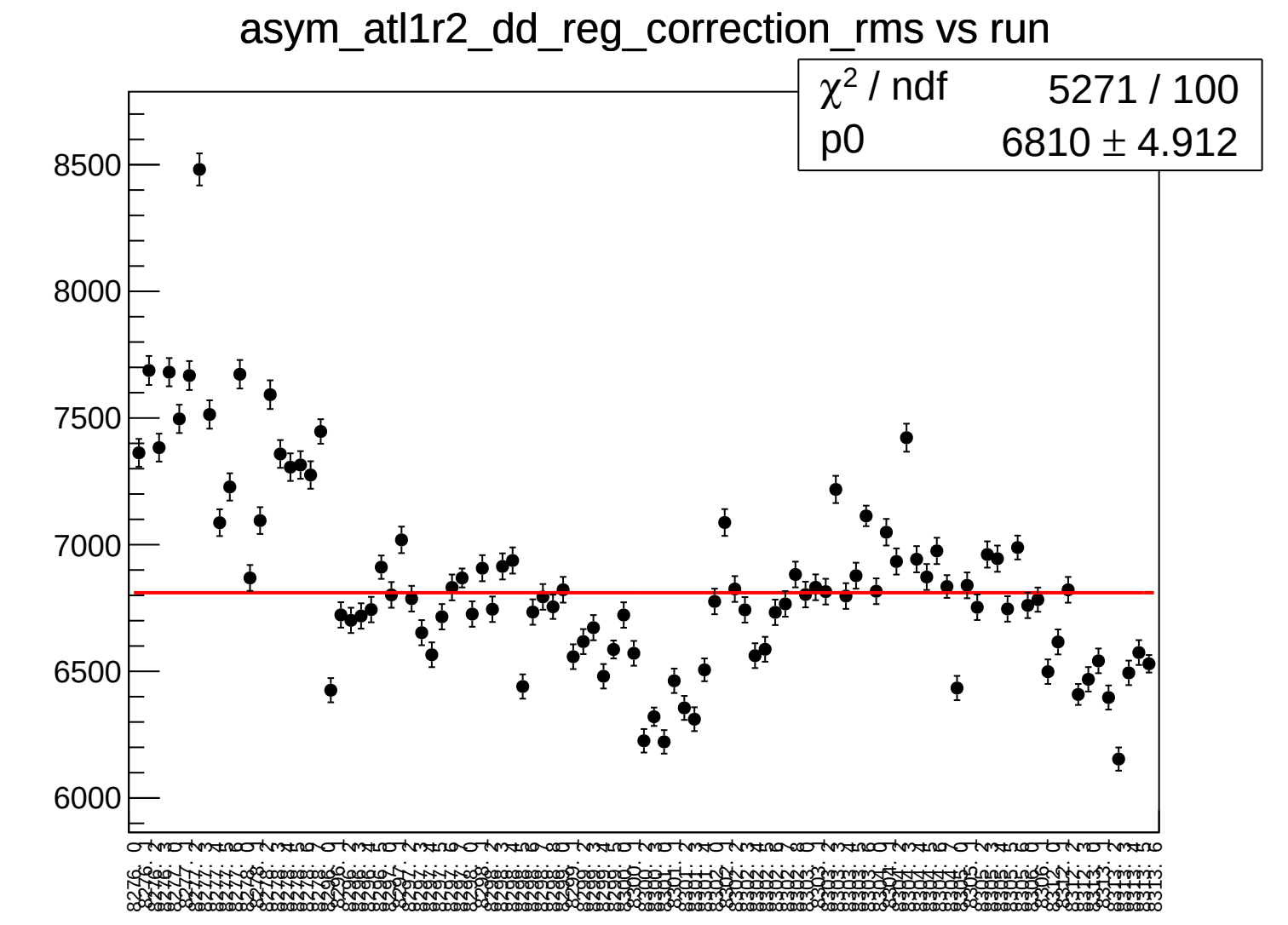

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.564e+05 / 100
p0 4.295e−10 ± 3.668e−13
3
2.5
2
1.5
1
0.5

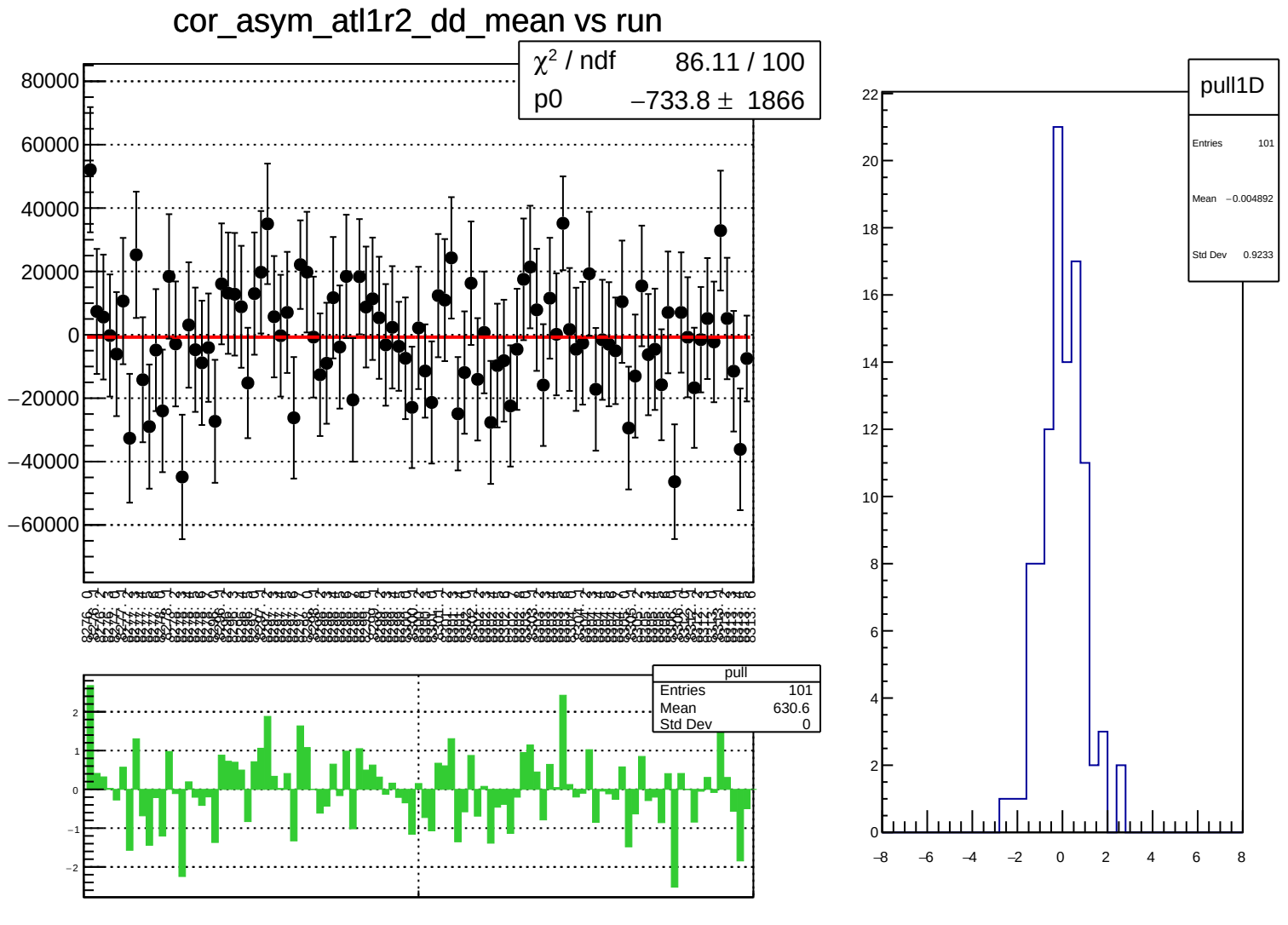

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 86.11 / 100
p0 −734.2 ± 1866
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean 630.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.004892
Std Dev 0.9233
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

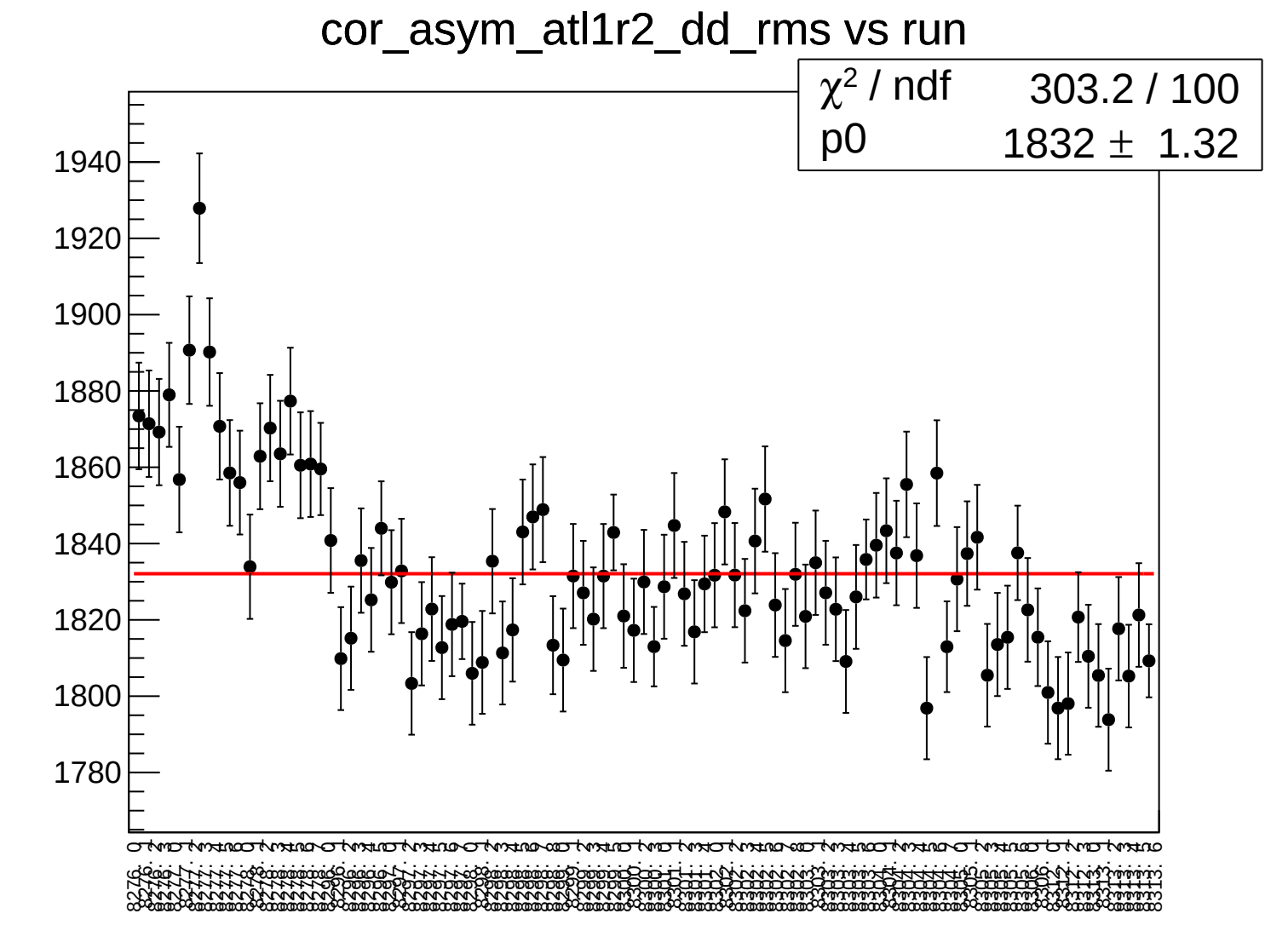

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 303.2 / 100
p0 1832 ± 1.32
1940
1920
1900
1880
1860
1840
1820
1800
1780

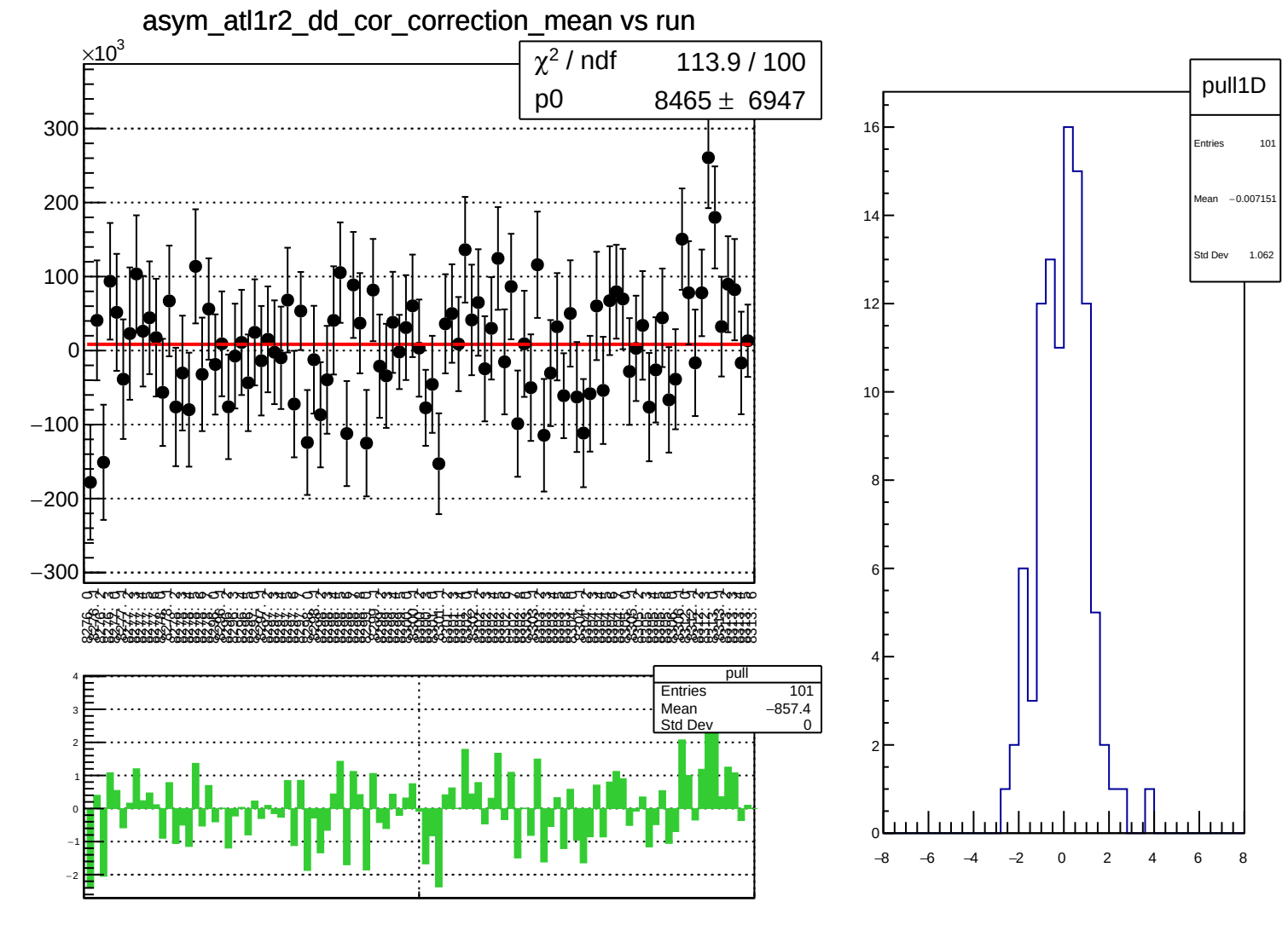

asym_atl1r2_dd_reg_correction_mean vs run
χ² / ndf 113.9 / 100
p0 8464 ± 6947
×10³
300
200
100
0
−100
−200
−300
pull
Entries 101
Mean −857.2
Std Dev 0
4
3
2
1
0
−1
−2

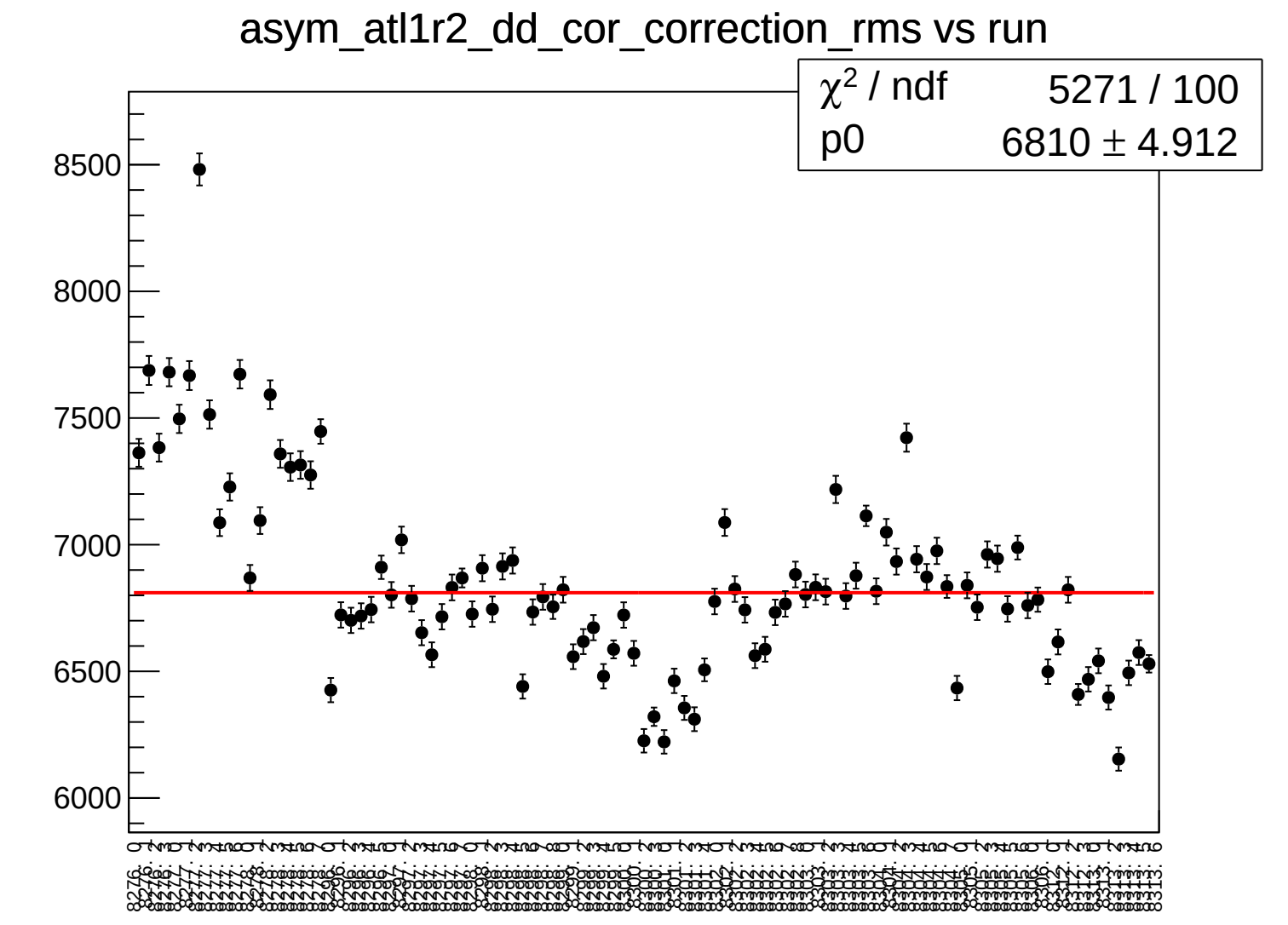

pull1D
Entries 101
Mean −0.007153
Std Dev 1.062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

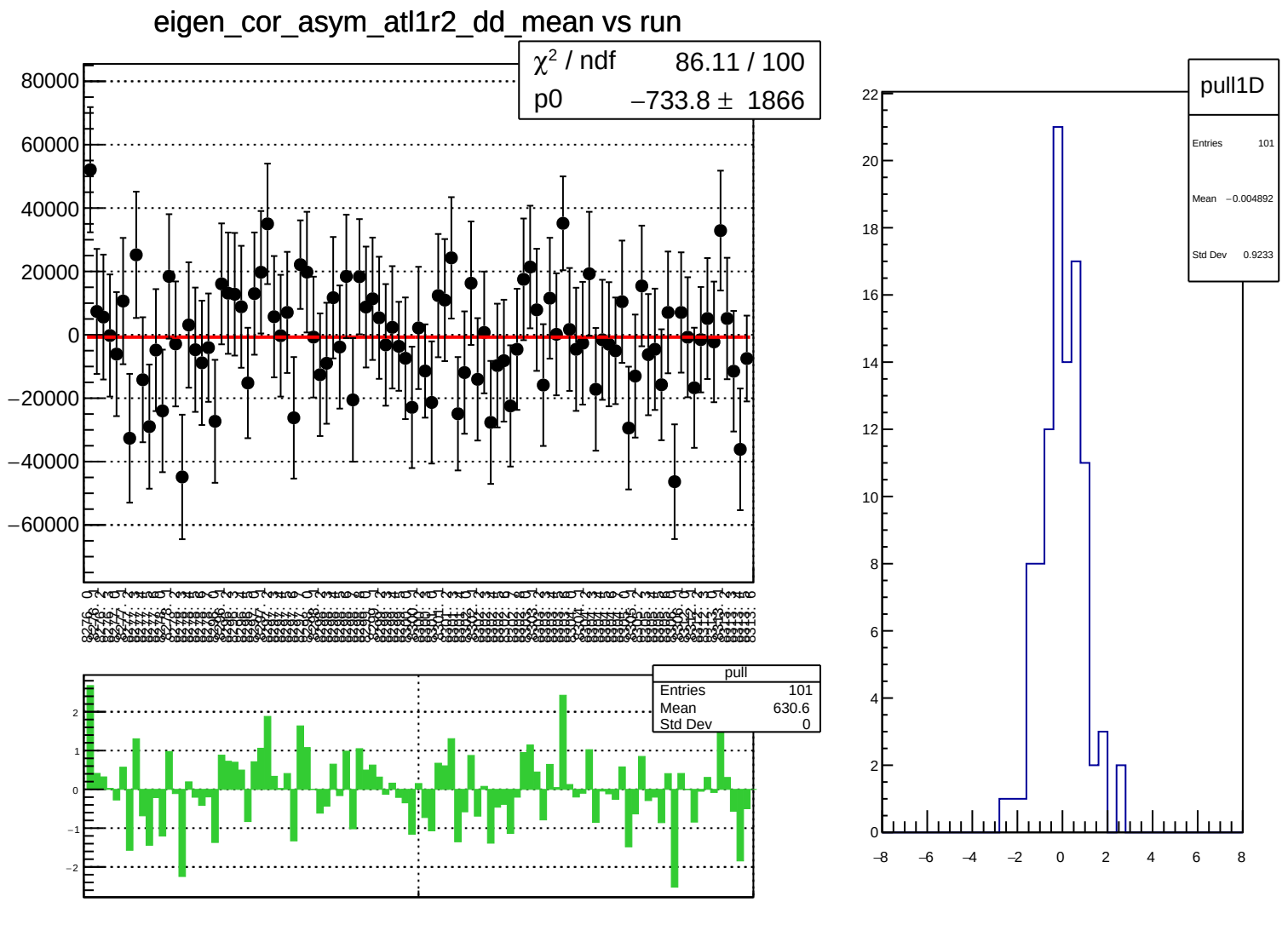

asym_atl1r2_dd_reg_correction_rms vs run
χ^2 / ndf 5271 / 100
p0 6810 ± 4.912
8500
8000
7500
7000
6500
6000

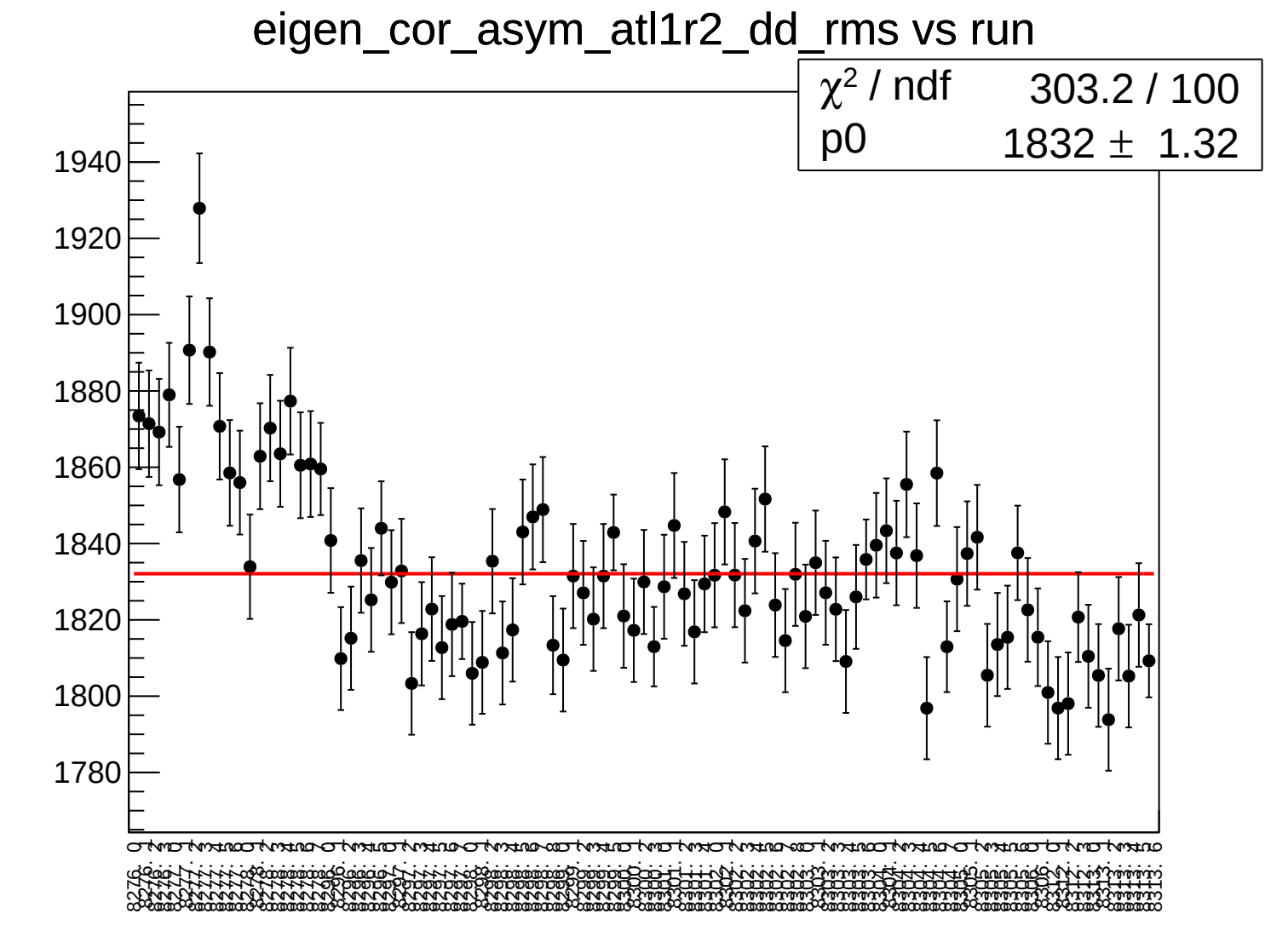

cor_asym_atl1r2_dd_mean vs run
χ² / ndf 86.11 / 100
p0 −733.8 ± 1866
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean 630.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.004892
Std Dev 0.9233
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

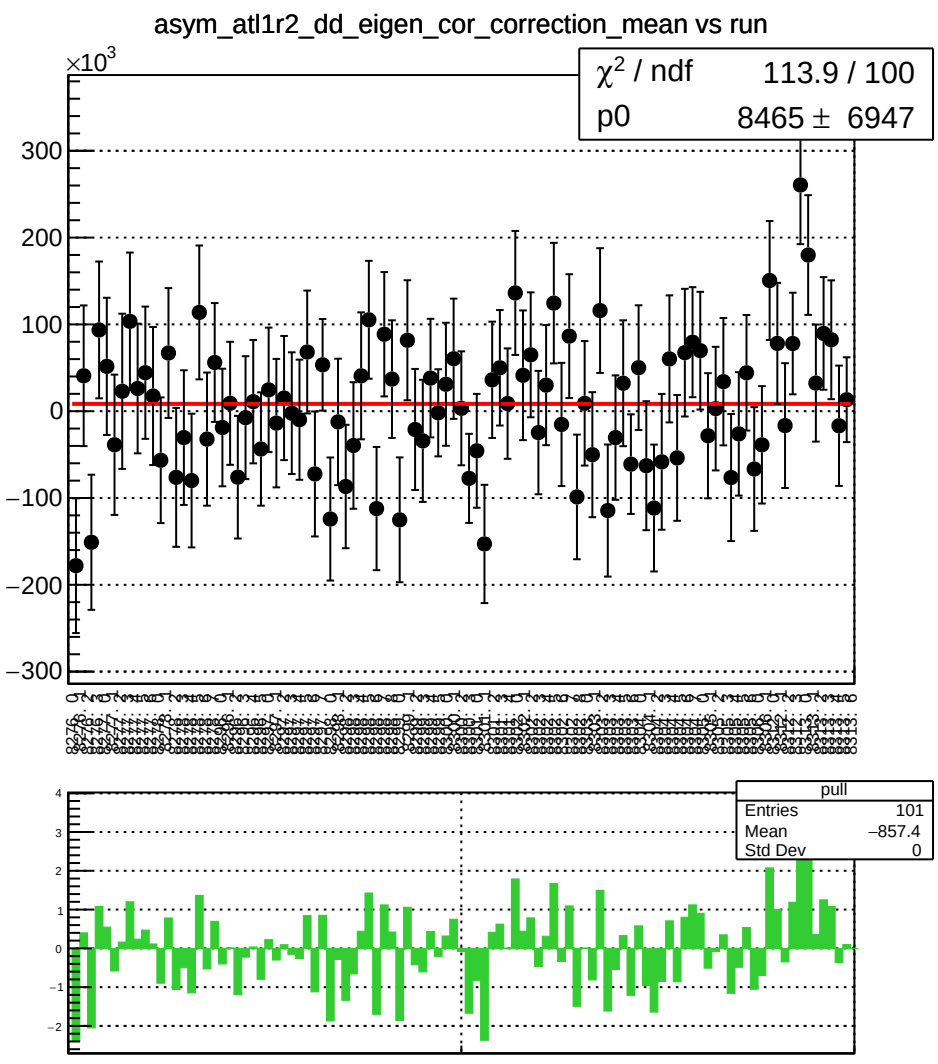

cor_asym_atl1r2_dd_rms vs run
χ² / ndf 303.2 / 100
p0 1832 ± 1.32
1940
1920
1900
1880
1860
1840
1820
1800
1780

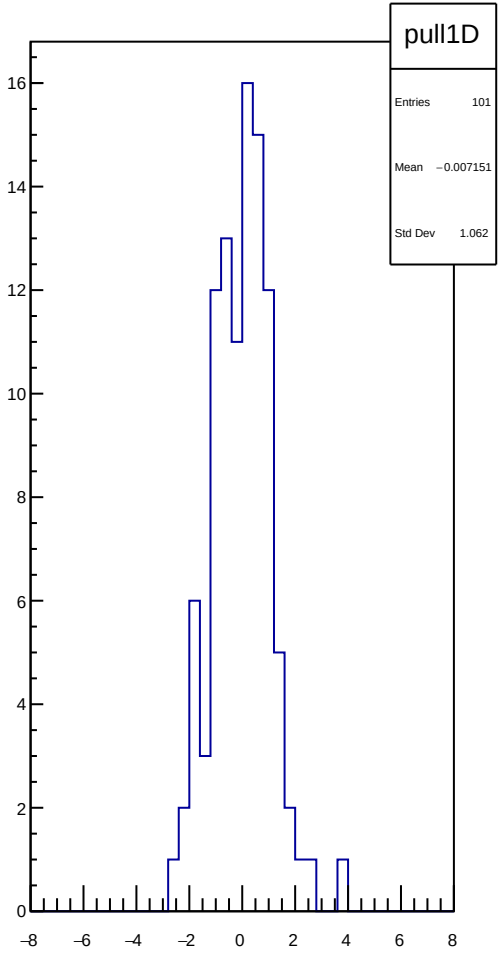

asym_atl1r2_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 113.9 / 100
p0 8465 ± 6947
300
200
100
0
−100
−200
−300
pull
Entries 101
Mean −857.4
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.007151
Std Dev 1.062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

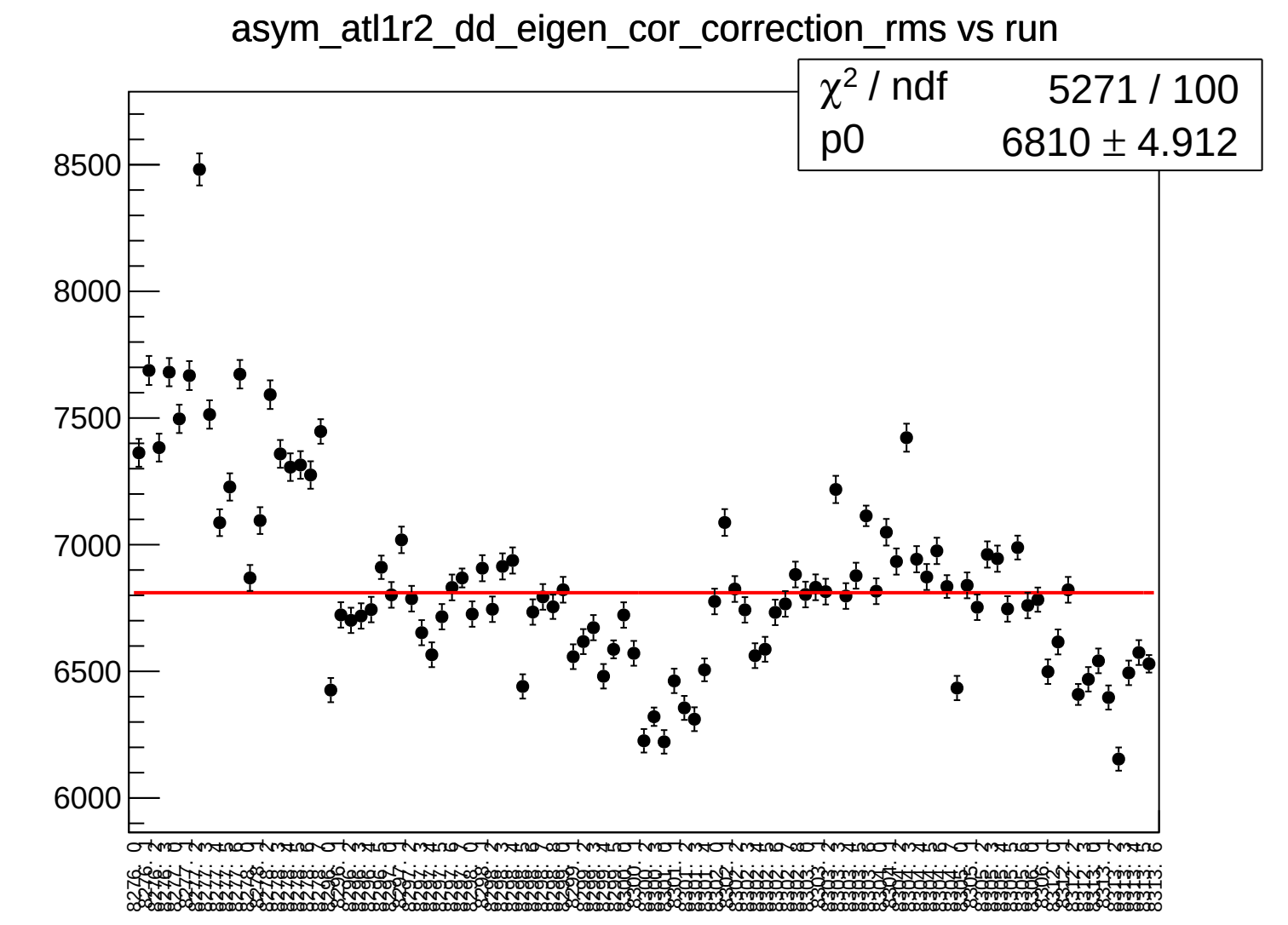

asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 5271 / 100
p0 6810 ± 4.912
8500
8000
7500
7000
6500
6000

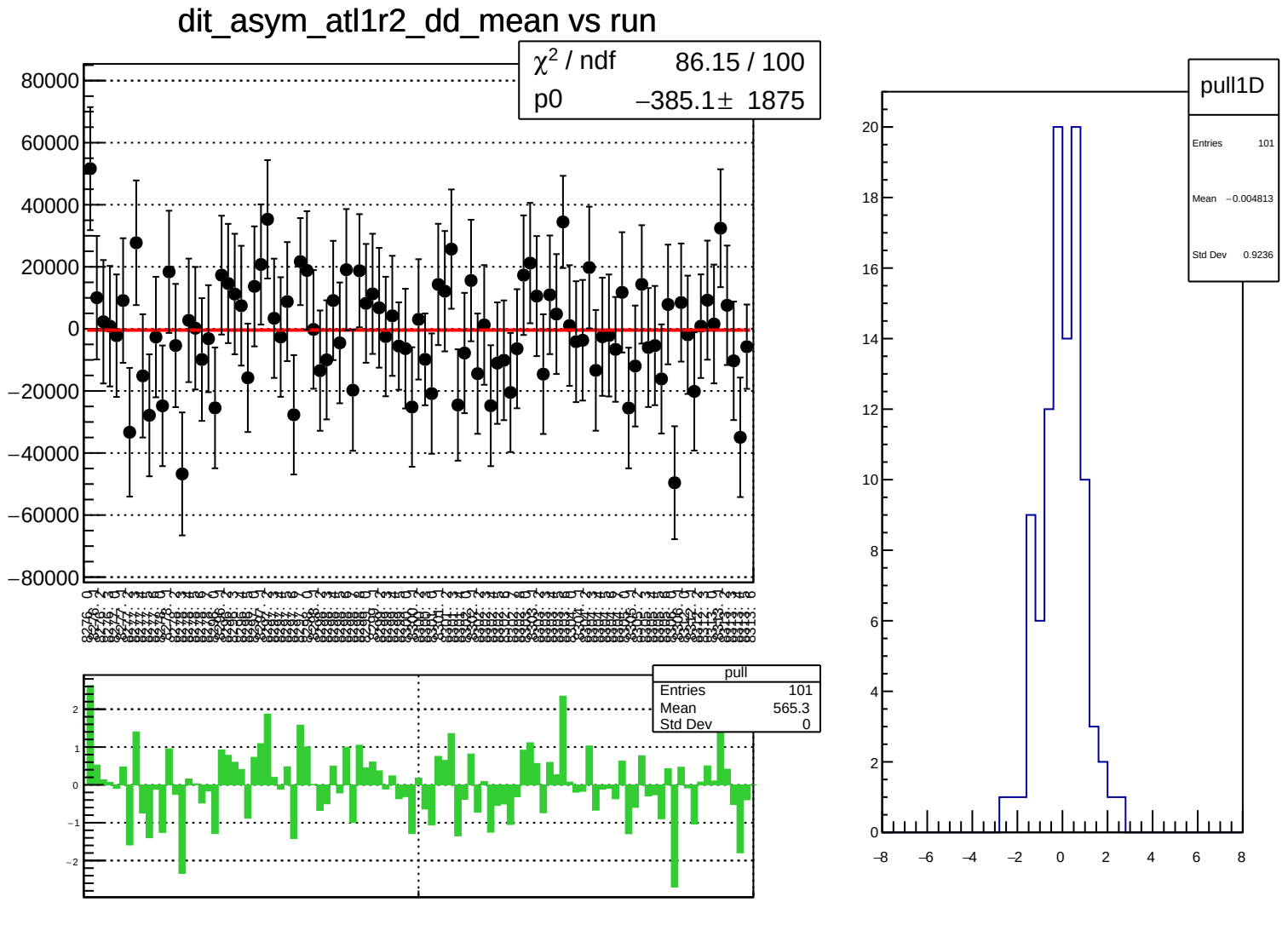

eigen_cor_asym_atl1r2_dd_mean vs run
χ² / ndf 86.11 / 100
p0 −733.8 ± 1866
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean 630.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.004892
Std Dev 0.9233
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

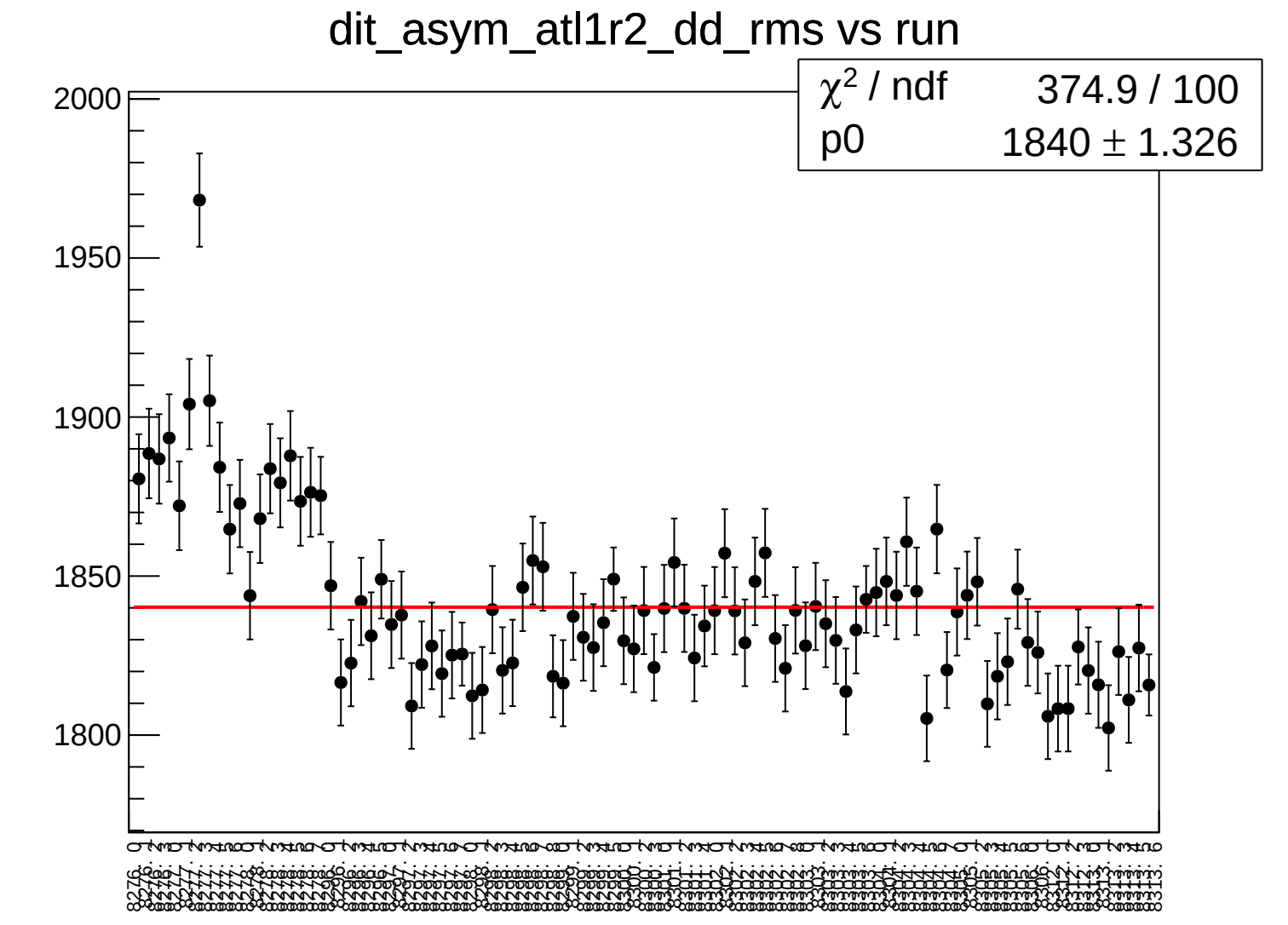

eigen_cor_asym_atl1r2_dd_rms vs run
χ² / ndf 303.2 / 100
p0 1832 ± 1.32
1940
1920
1900
1880
1860
1840
1820
1800
1780

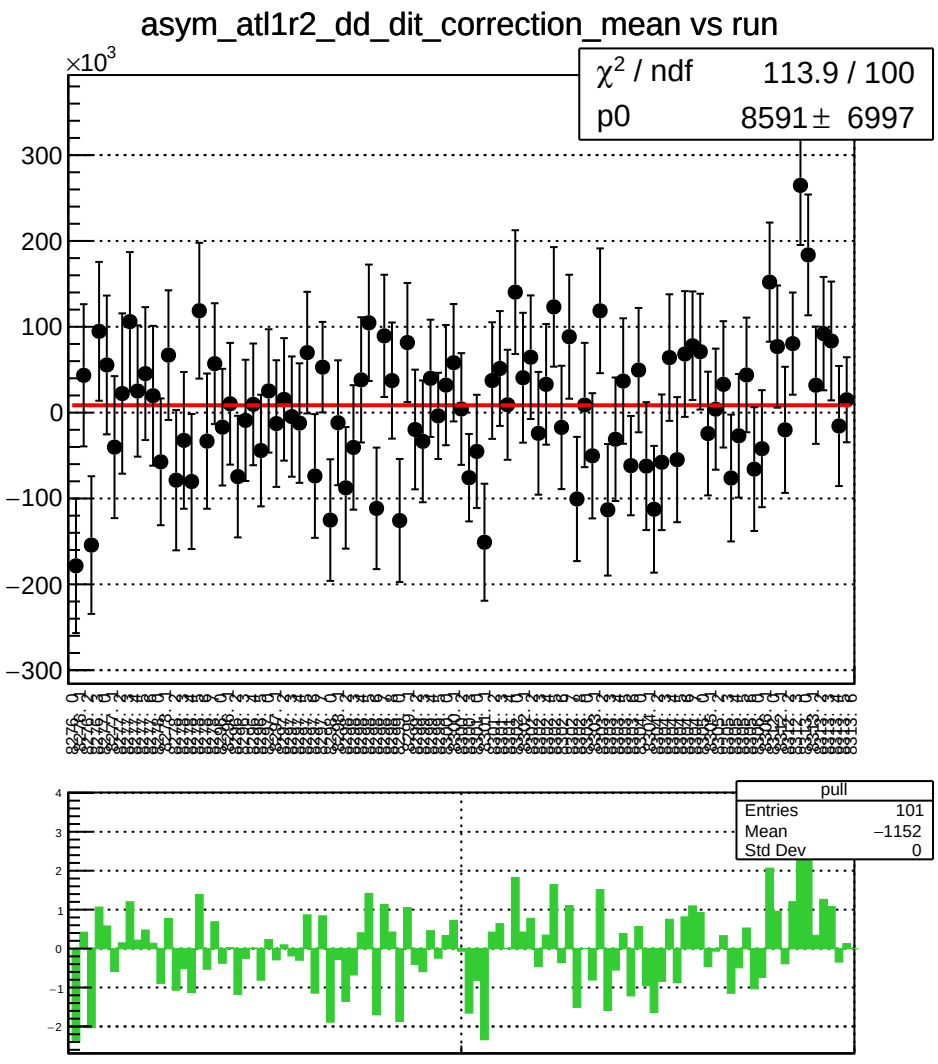

asym_atl1r2_dd_eigen_cor_correction_mean vs run
χ² / ndf 113.9 / 100
p0 8465 ± 6947
×10³
pull
Entries 101
Mean −857.4
Std Dev 0

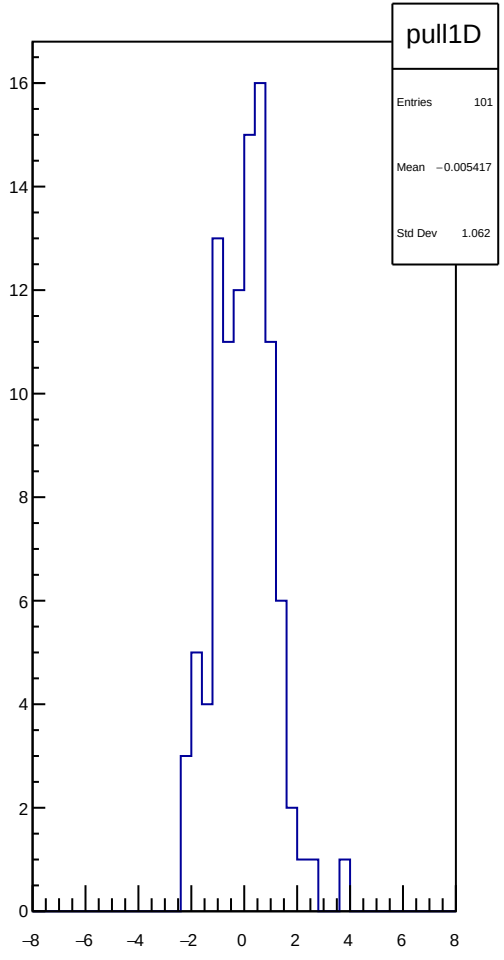

pull1D
Entries 101
Mean −0.007151
Std Dev 1.062

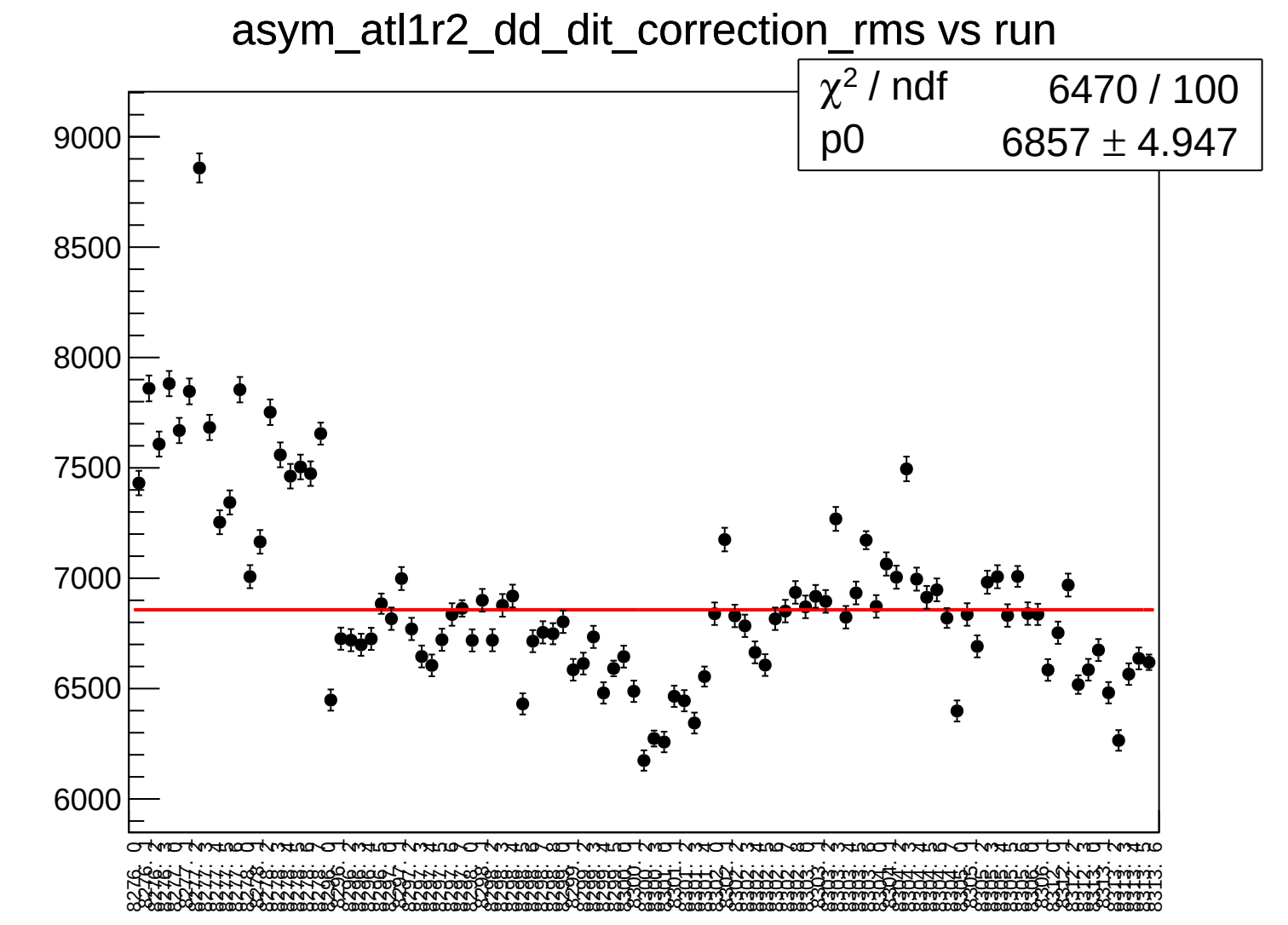

asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 5271 / 100
p0 6810 ± 4.912
8500
8000
7500
7000
6500
6000

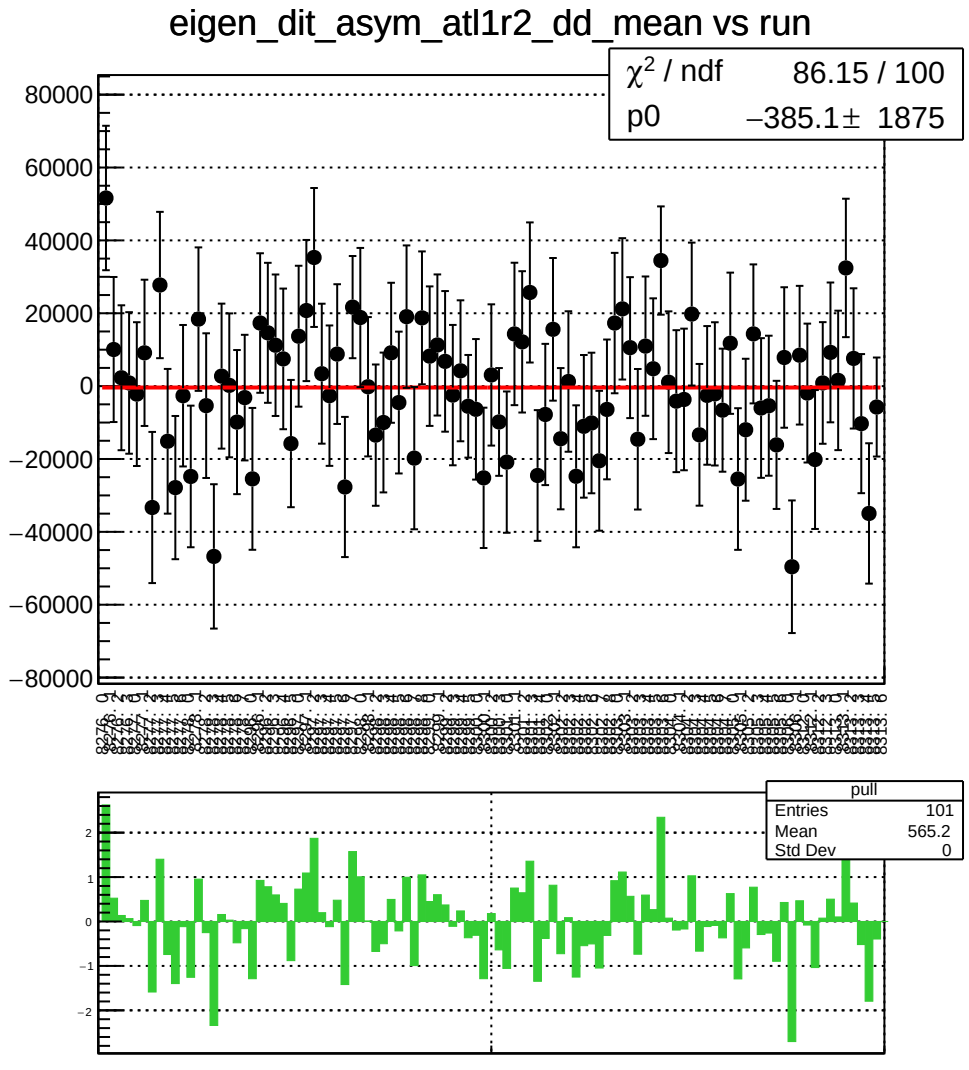

dit_asym_atl1r2_dd_mean vs run
χ² / ndf 86.15 / 100
p0 −385.1± 1875
pull
Entries 101
Mean 565.3
Std Dev 0
pull1D
Entries 101
Mean −0.004813
Std Dev 0.9236

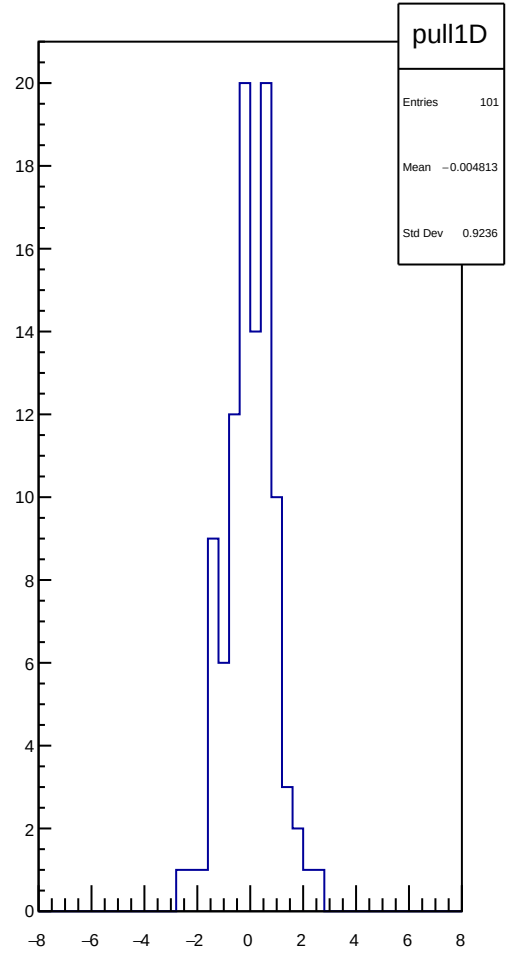

dit_asym_atl1r2_dd_rms vs run
χ^2 / ndf 374.9 / 100
p0 1840 ± 1.326
2000
1950
1900
1850
1800

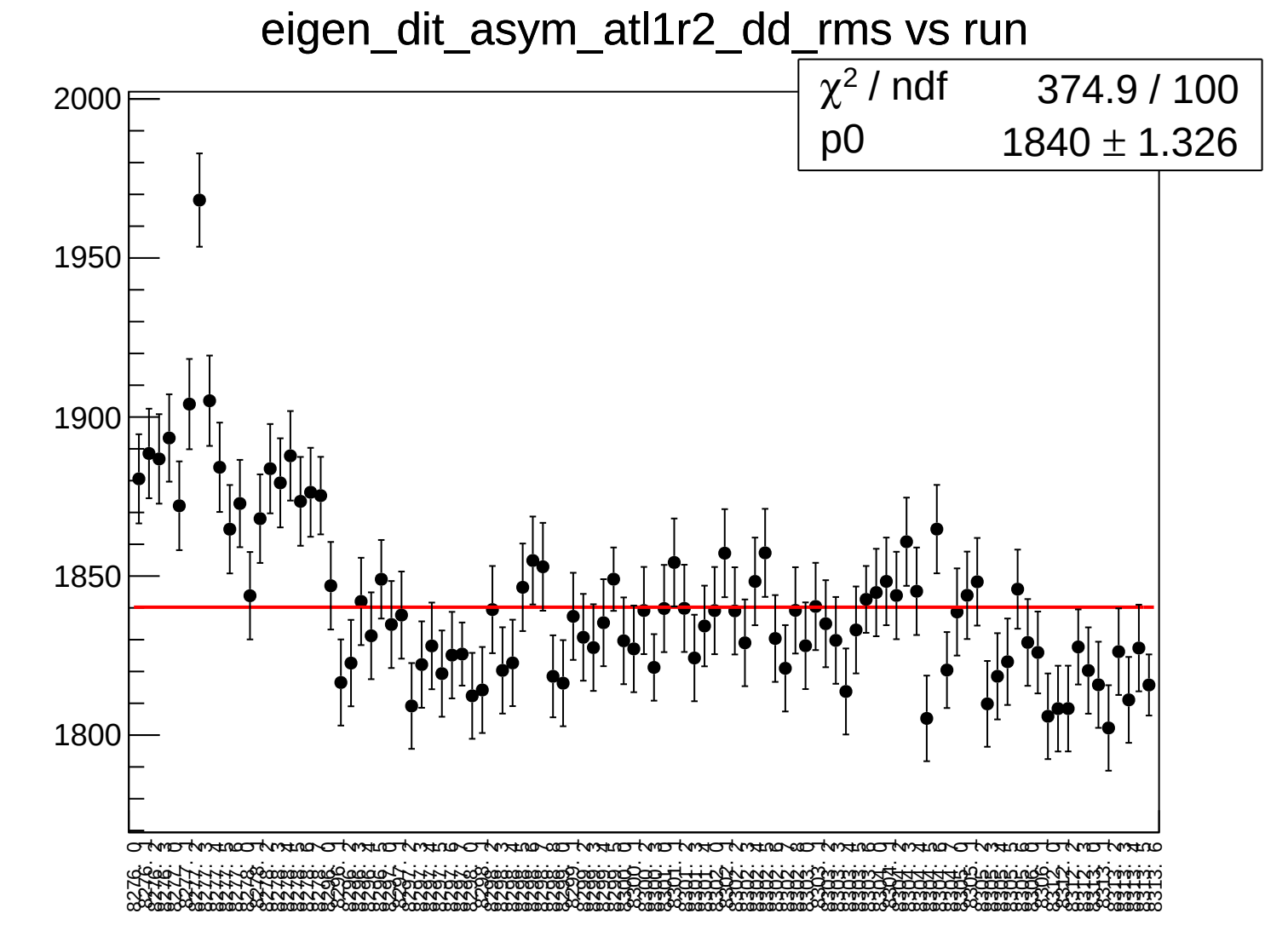

asym_atl1r2_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 113.9 / 100
p0 8591 ± 6997
300
200
100
0
−100
−200
−300
pull
Entries 101
Mean −1152
Std Dev 0
4
3
2
1
0
−1
−2

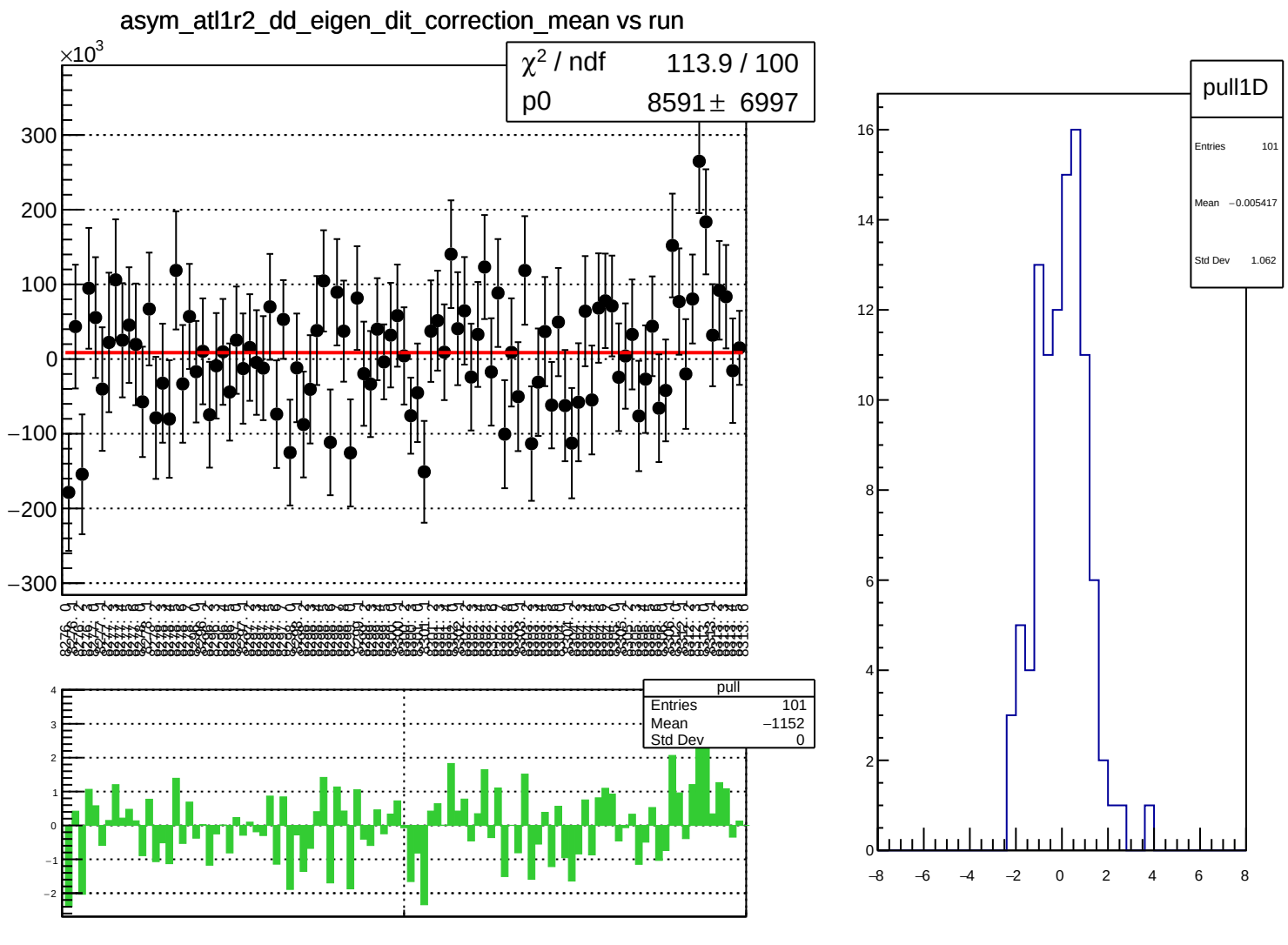

pull1D
Entries 101
Mean −0.005417
Std Dev 1.062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

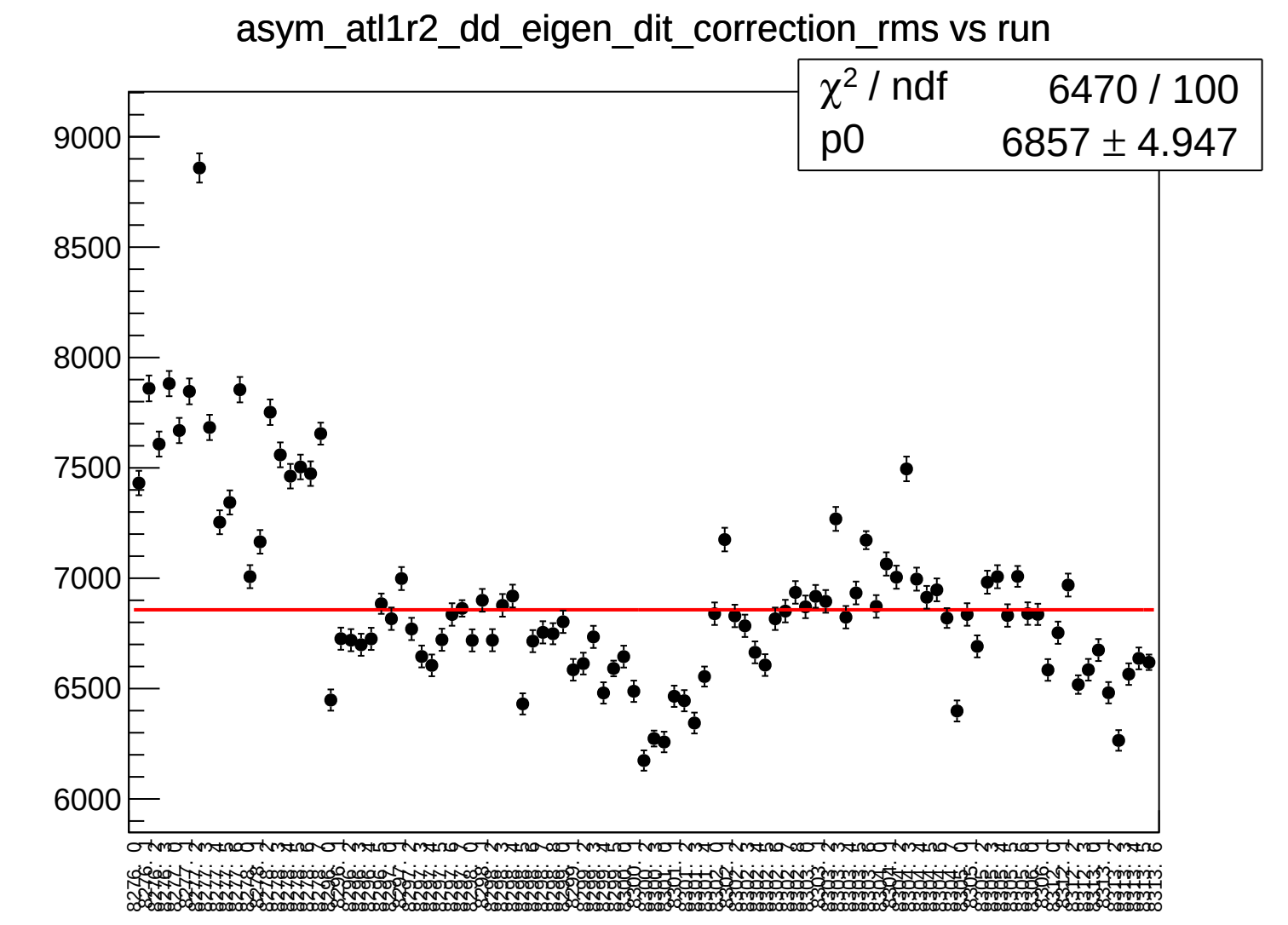

asym_atl1r2_dd_dit_correction_rms vs run
χ^2 / ndf 6470 / 100
p0 6857 ± 4.947
9000
8500
8000
7500
7000
6500
6000

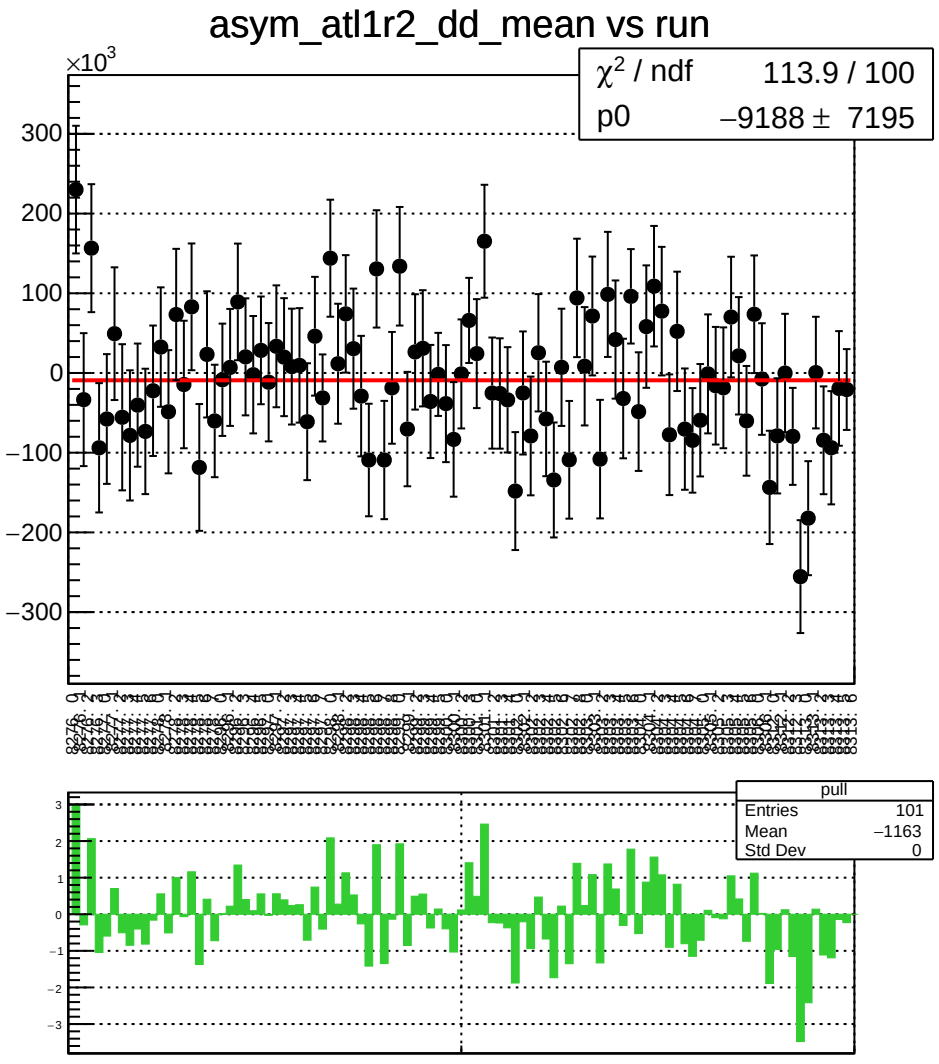

eigen_dit_asym_atl1r2_dd_mean vs run
χ² / ndf 86.15 / 100
p0 −385.1± 1875
pull
Entries 101
Mean 565.2
Std Dev 0

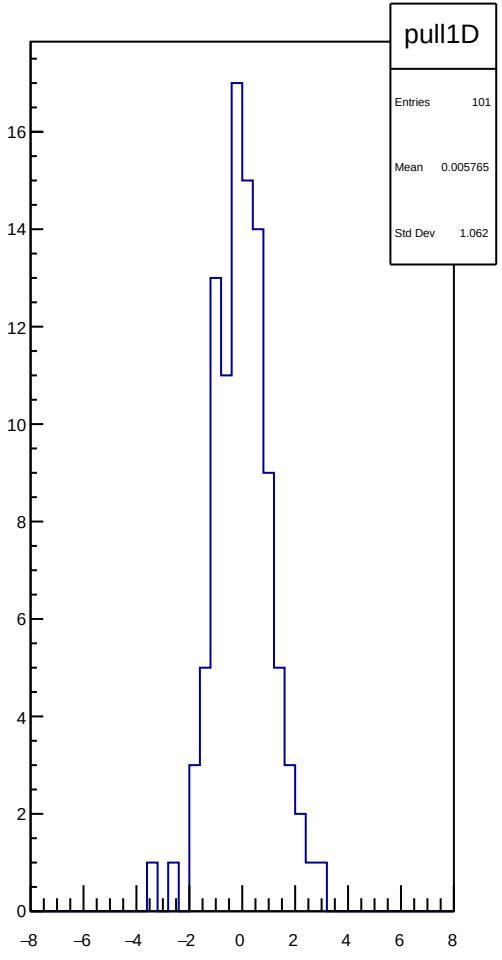

pull1D
Entries 101
Mean −0.004813
Std Dev 0.9236

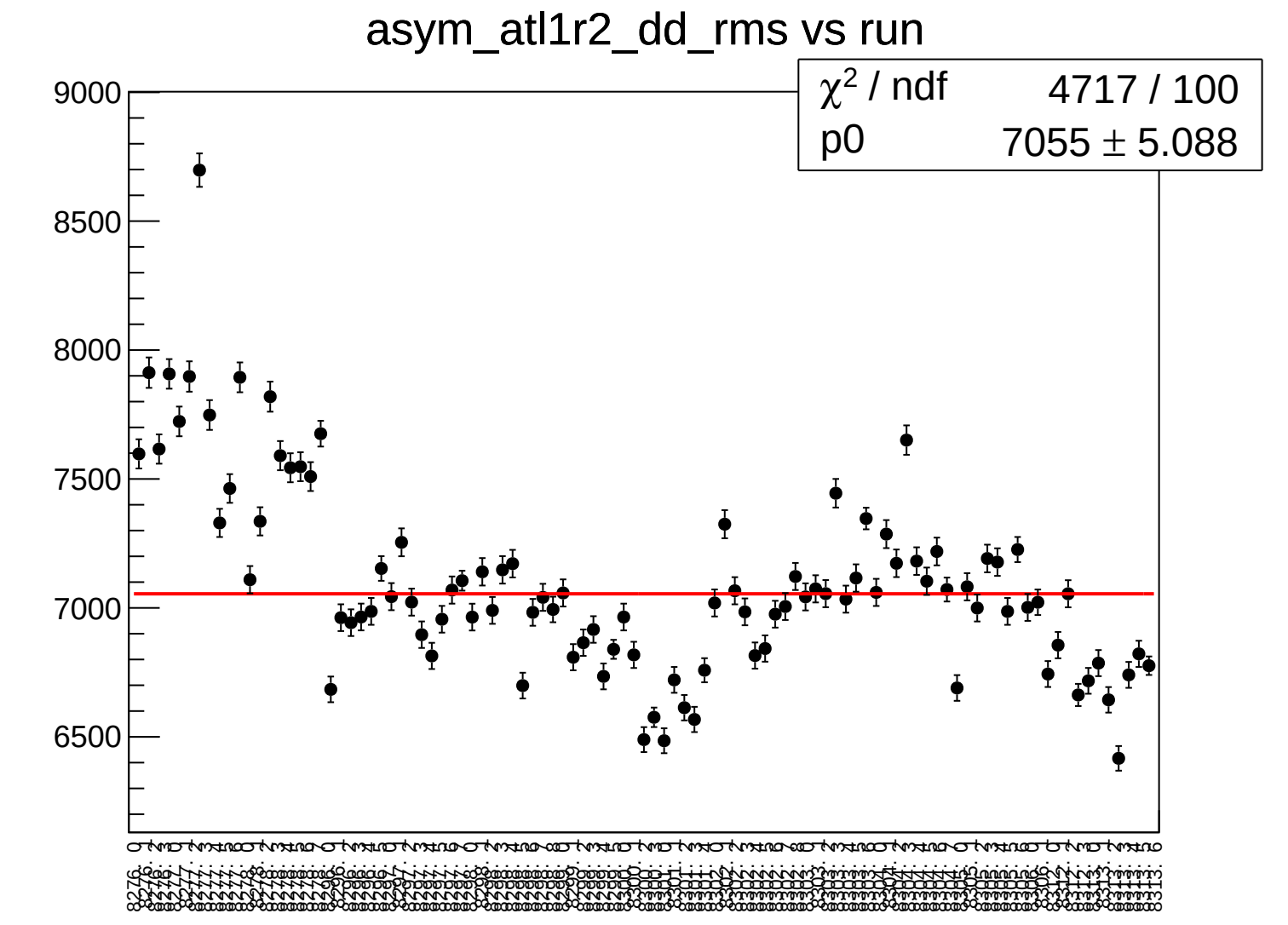

eigen_dit_asym_atl1r2_dd_rms vs run
χ^2 / ndf 374.9 / 100
p0 1840 ± 1.326
2000
1950
1900
1850
1800

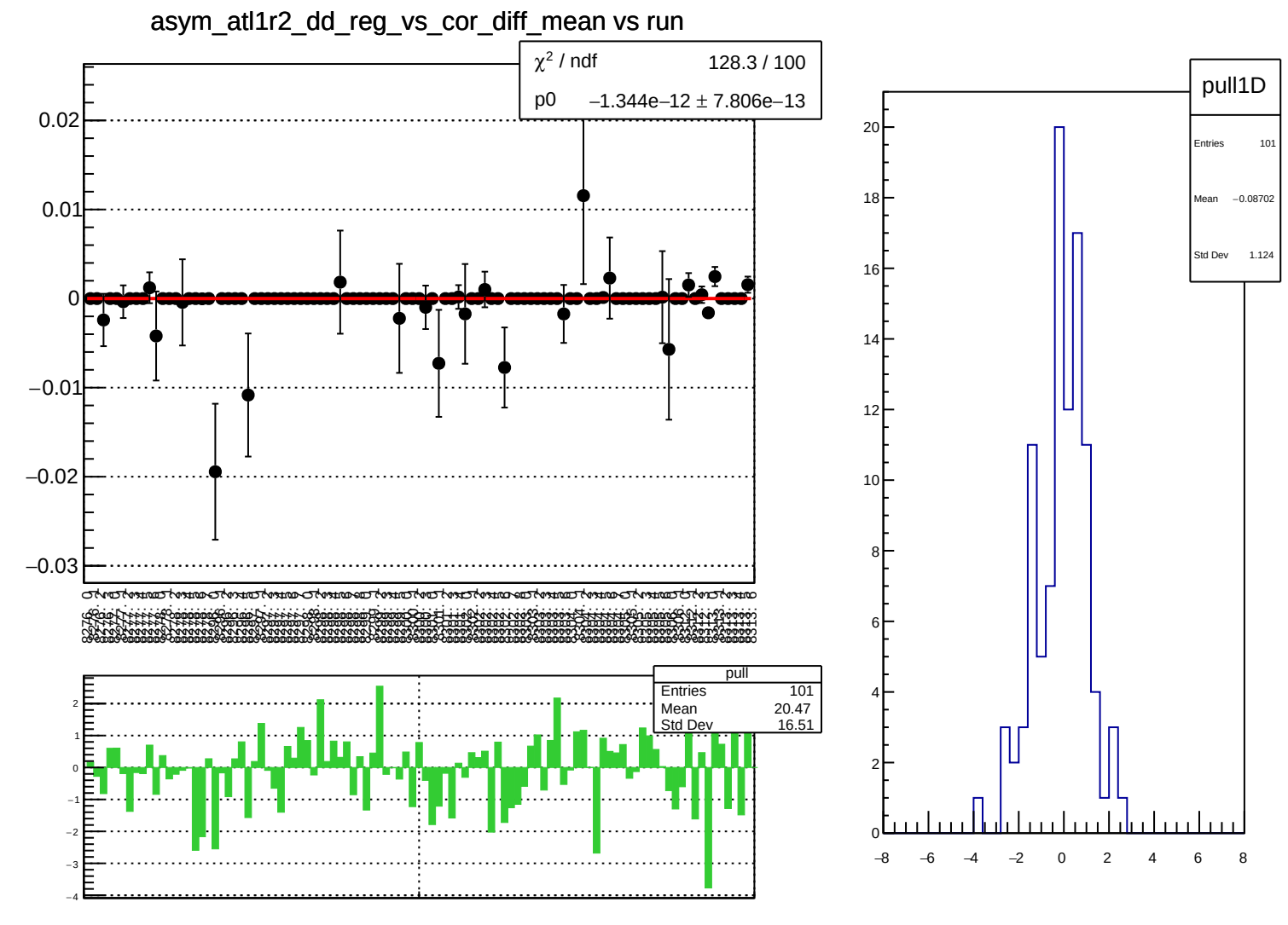

asym_atl1r2_dd_eigen_dit_correction_mean vs run
χ² / ndf 113.9 / 100
p0 8591 ± 6997
×10³
300
200
100
0
−100
−200
−300
pull
Entries 101
Mean −1152
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.005417
Std Dev 1.062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

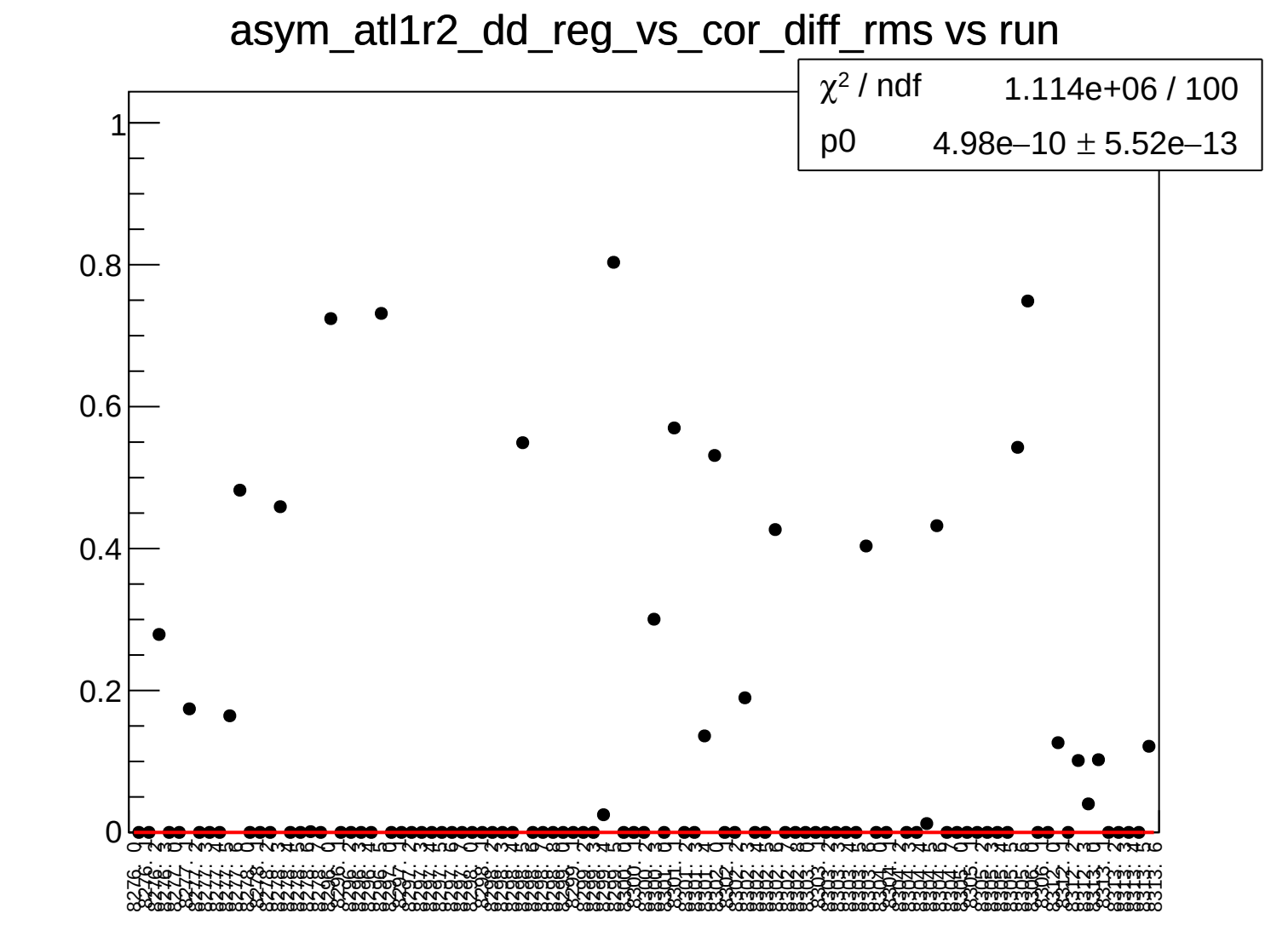

asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ² / ndf 6470 / 100
p0 6857 ± 4.947
9000
8500
8000
7500
7000
6500
6000

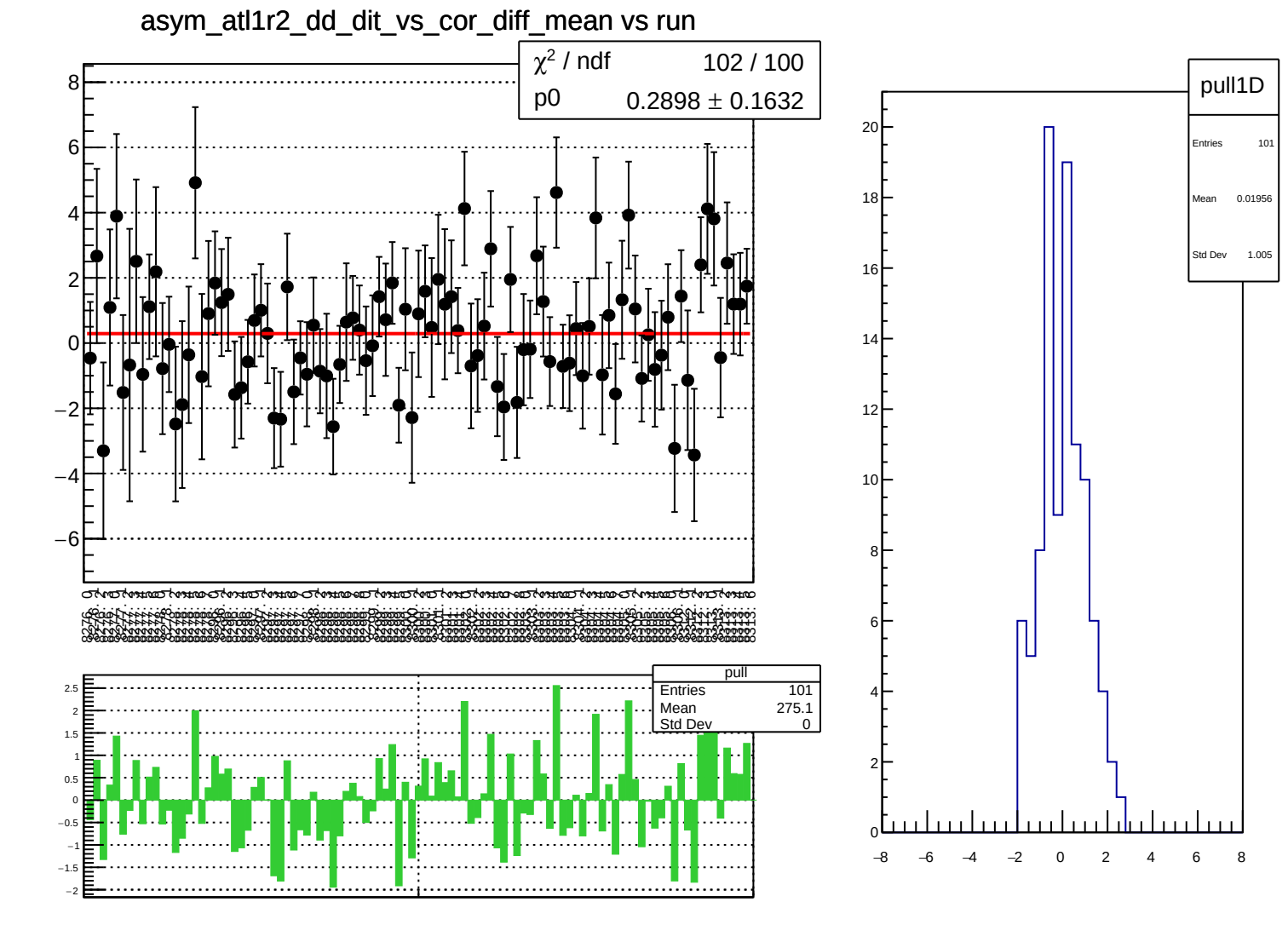

asym_atl1r2_dd_mean vs run
×10^3
χ^2 / ndf 113.9 / 100
p0 −9188 ± 7195
300
200
100
0
−100
−200
−300
pull
Entries 101
Mean −1163
Std Dev 0
3
2
1
0
−1
−2
−3

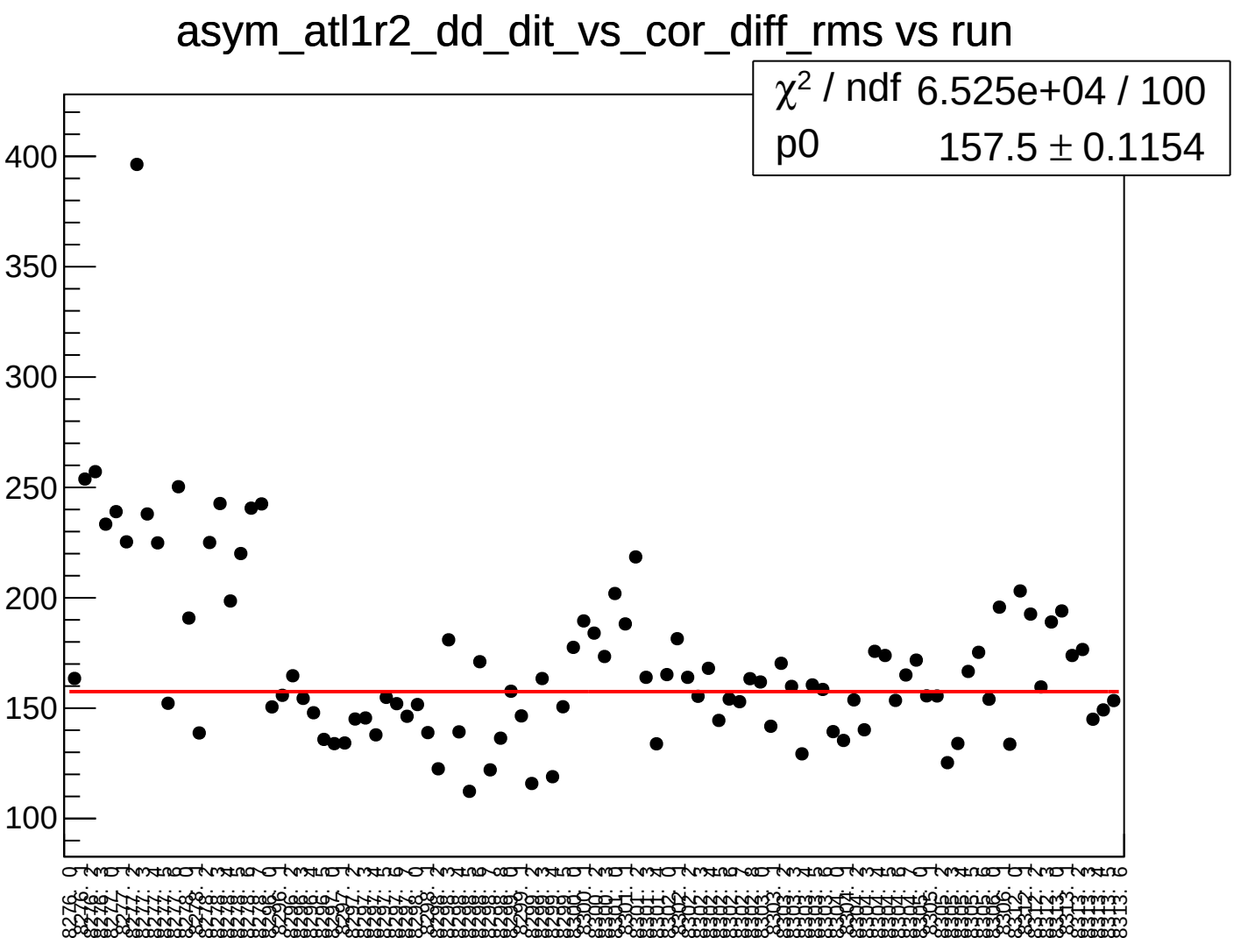

pull1D
Entries 101
Mean 0.005765
Std Dev 1.062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

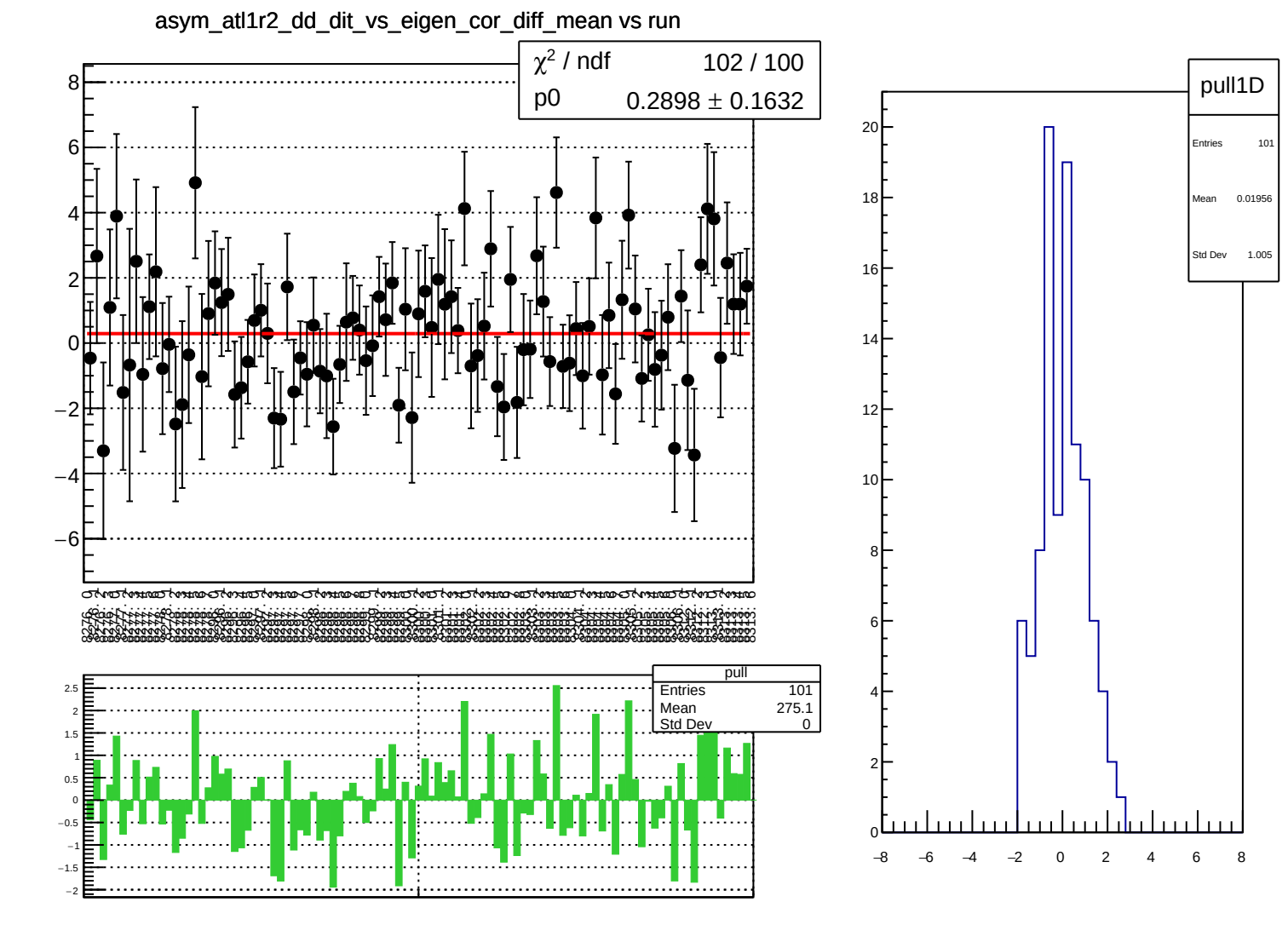

asym_atl1r2_dd_rms vs run
χ^2 / ndf 4717 / 100
p0 7055 ± 5.088
9000
8500
8000
7500
7000
6500

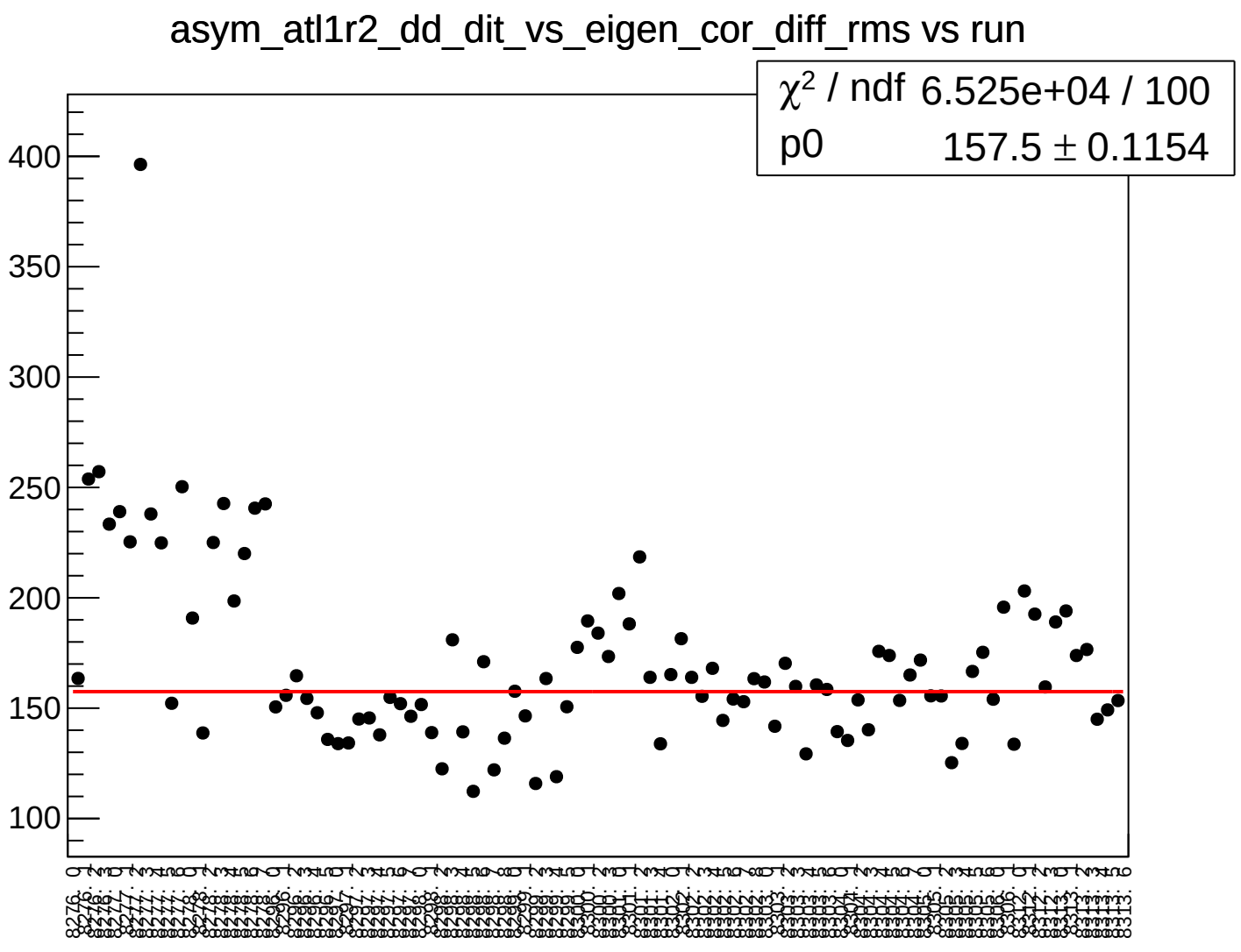

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 128.3 / 100
p0 −1.344e−12 ± 7.806e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 101
Mean 20.47
Std Dev 16.51
pull1D
Entries 101
Mean −0.08702
Std Dev 1.124

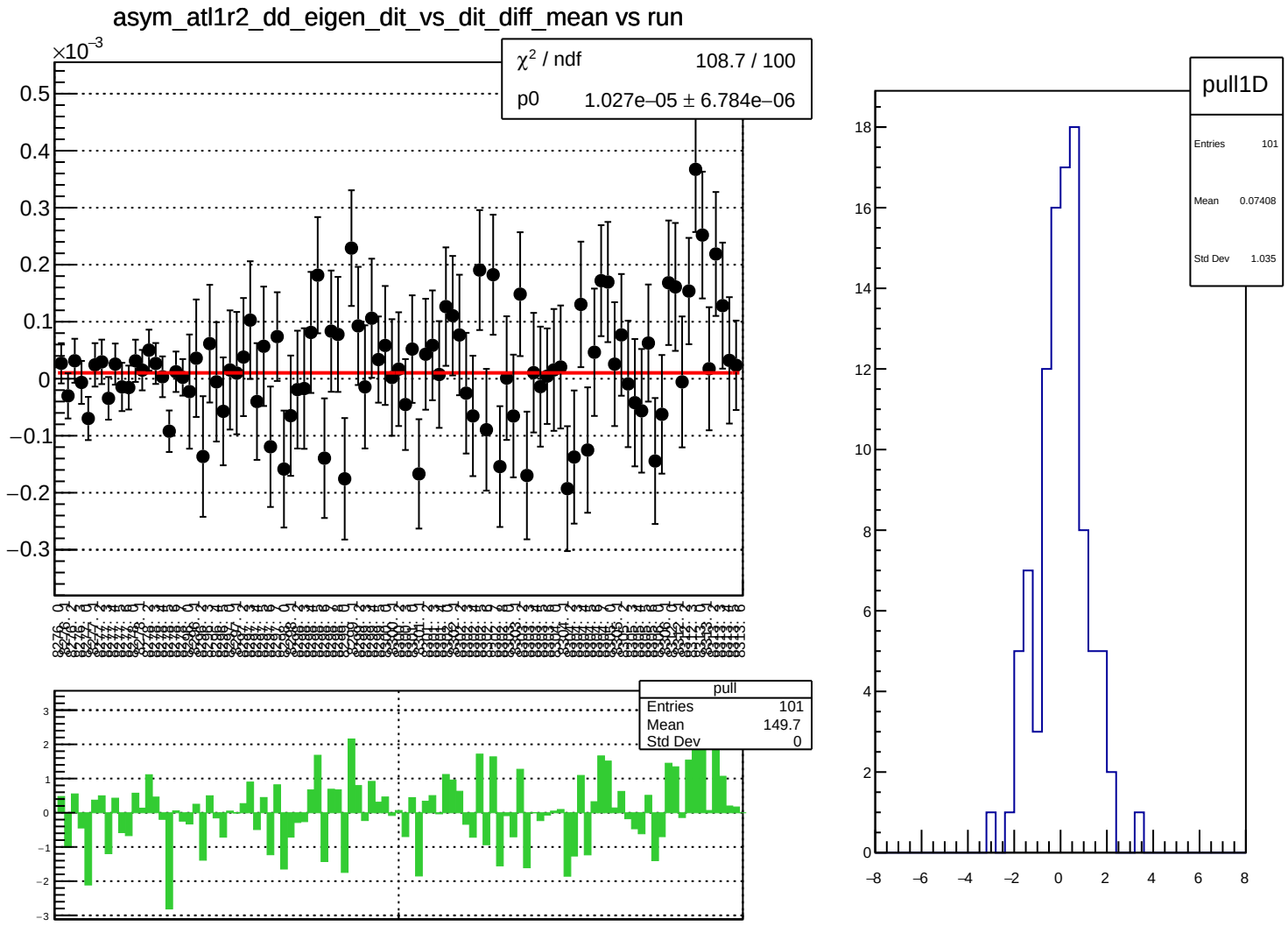

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.114e+06 / 100
p0 4.98e−10 ± 5.52e−13
1
0.8
0.6
0.4
0.2
0

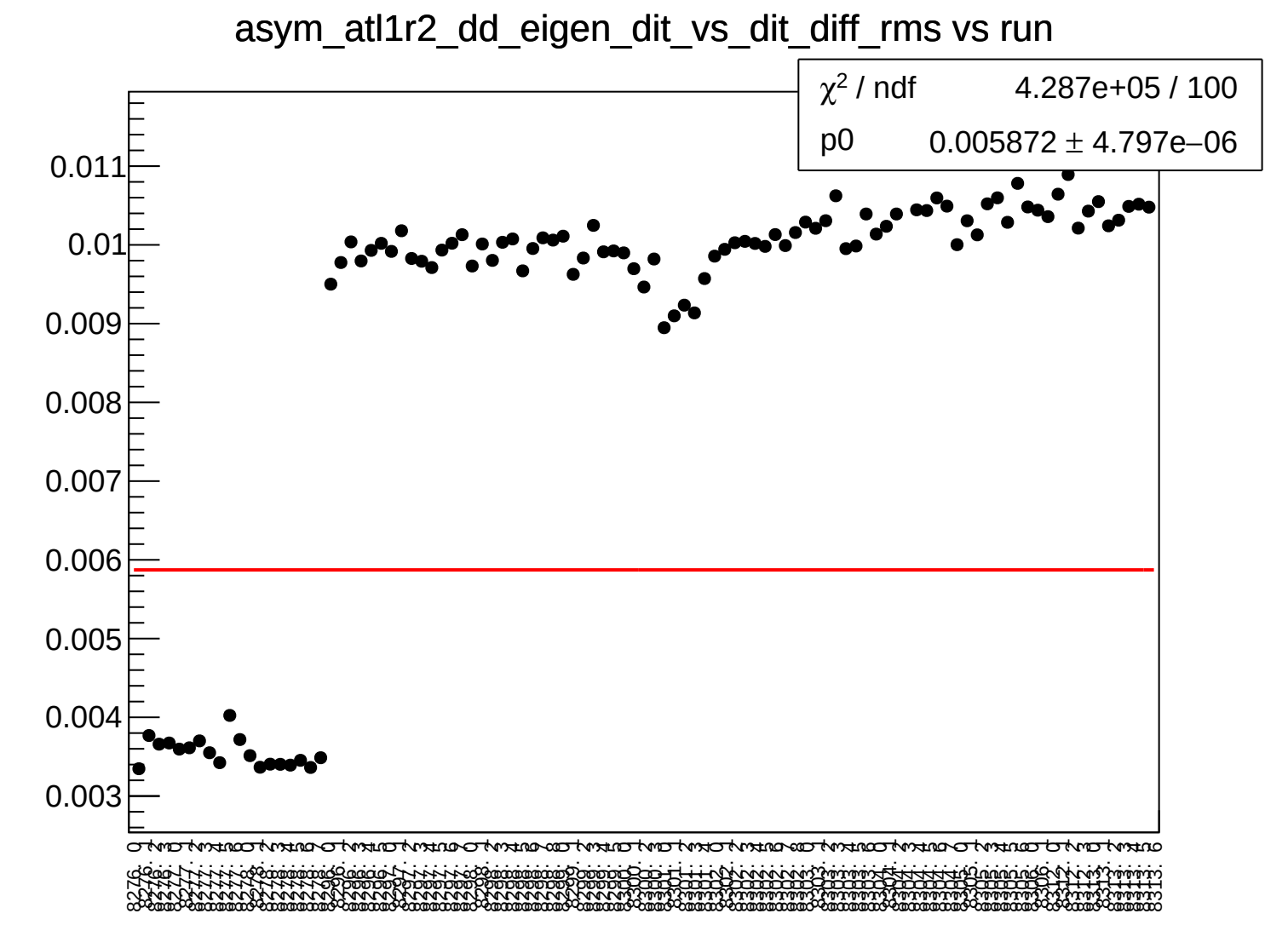

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 102 / 100
p0 0.2898 ± 0.1632
pull
Entries 101
Mean 275.1
Std Dev 0
pull1D
Entries 101
Mean 0.01956
Std Dev 1.005

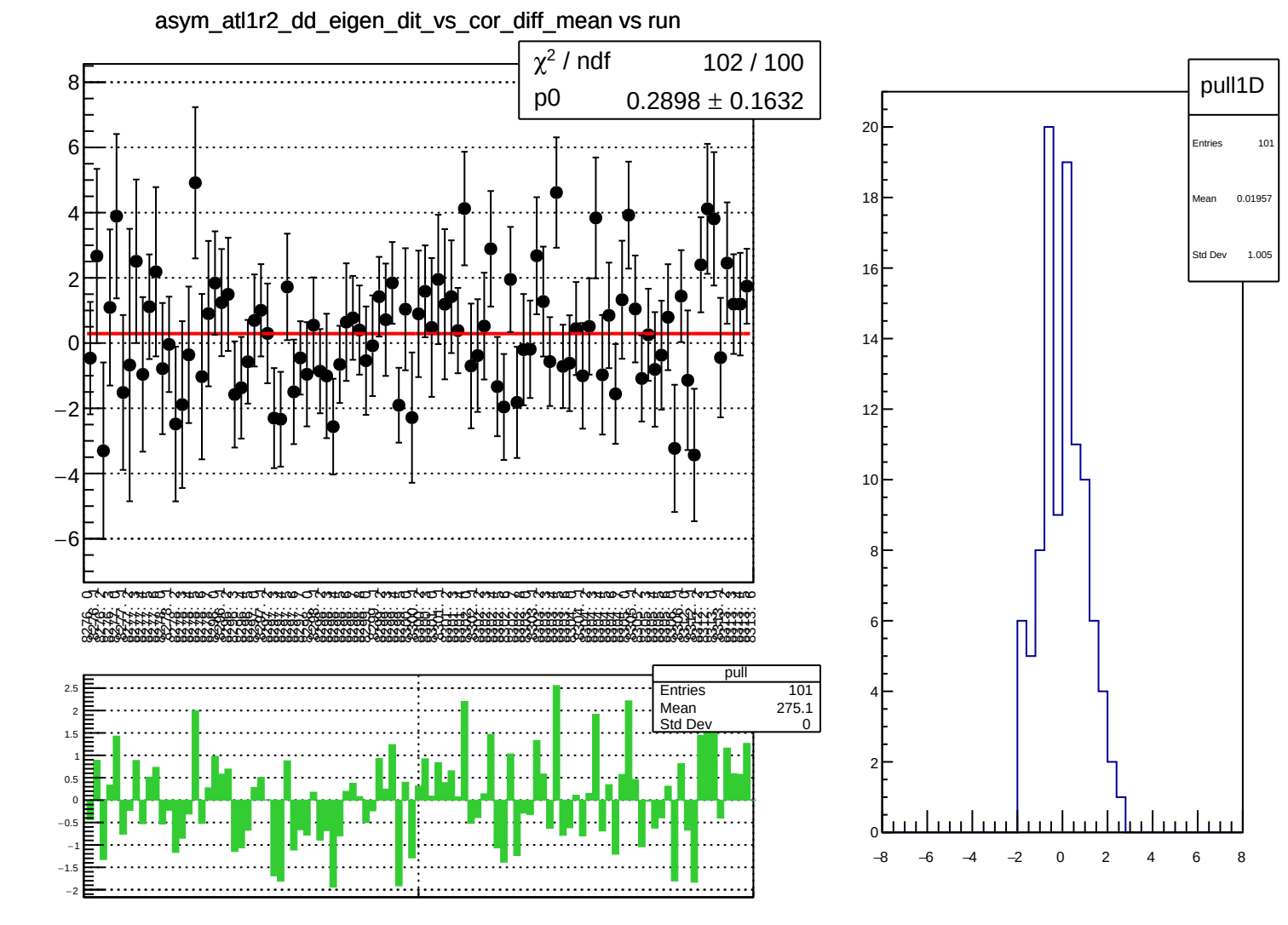

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.525e+04 / 100
p0 157.5 ± 0.1154
400
350
300
250
200
150
100

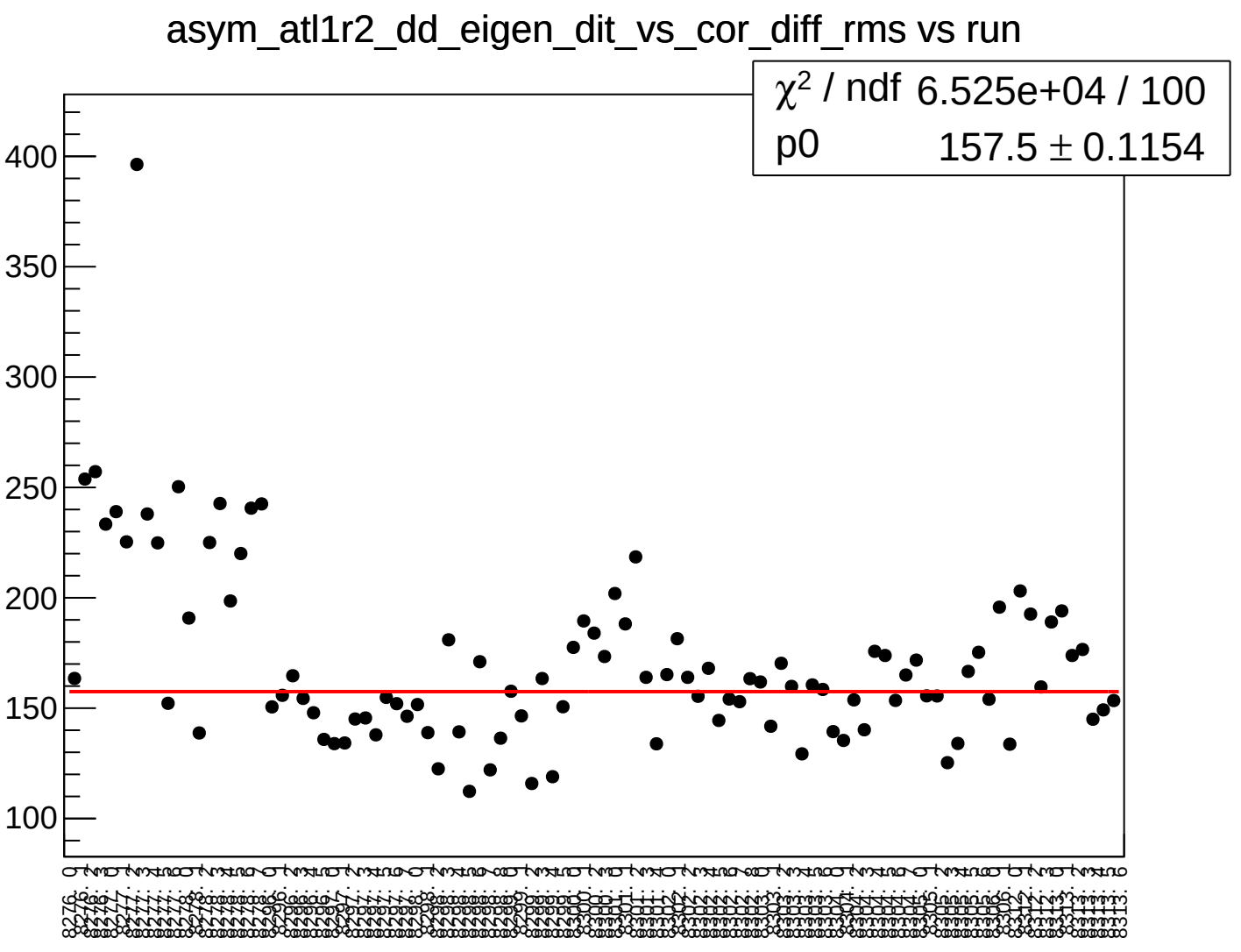

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102 / 100
p0 0.2898 ± 0.1632
pull
Entries 101
Mean 275.1
Std Dev 0
pull1D
Entries 101
Mean 0.01956
Std Dev 1.005

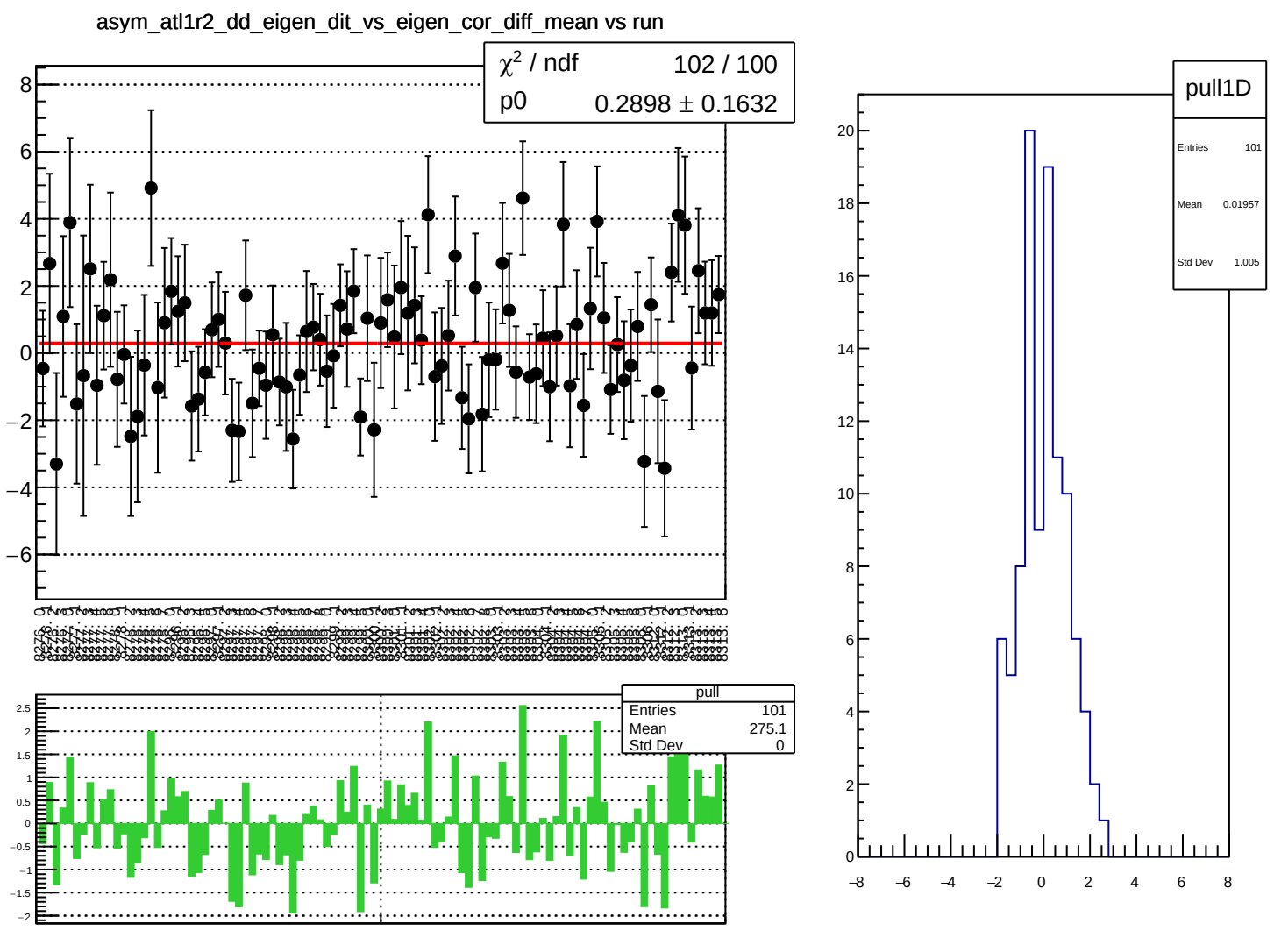

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.525e+04 / 100
p0 157.5 ± 0.1154
400
350
300
250
200
150
100

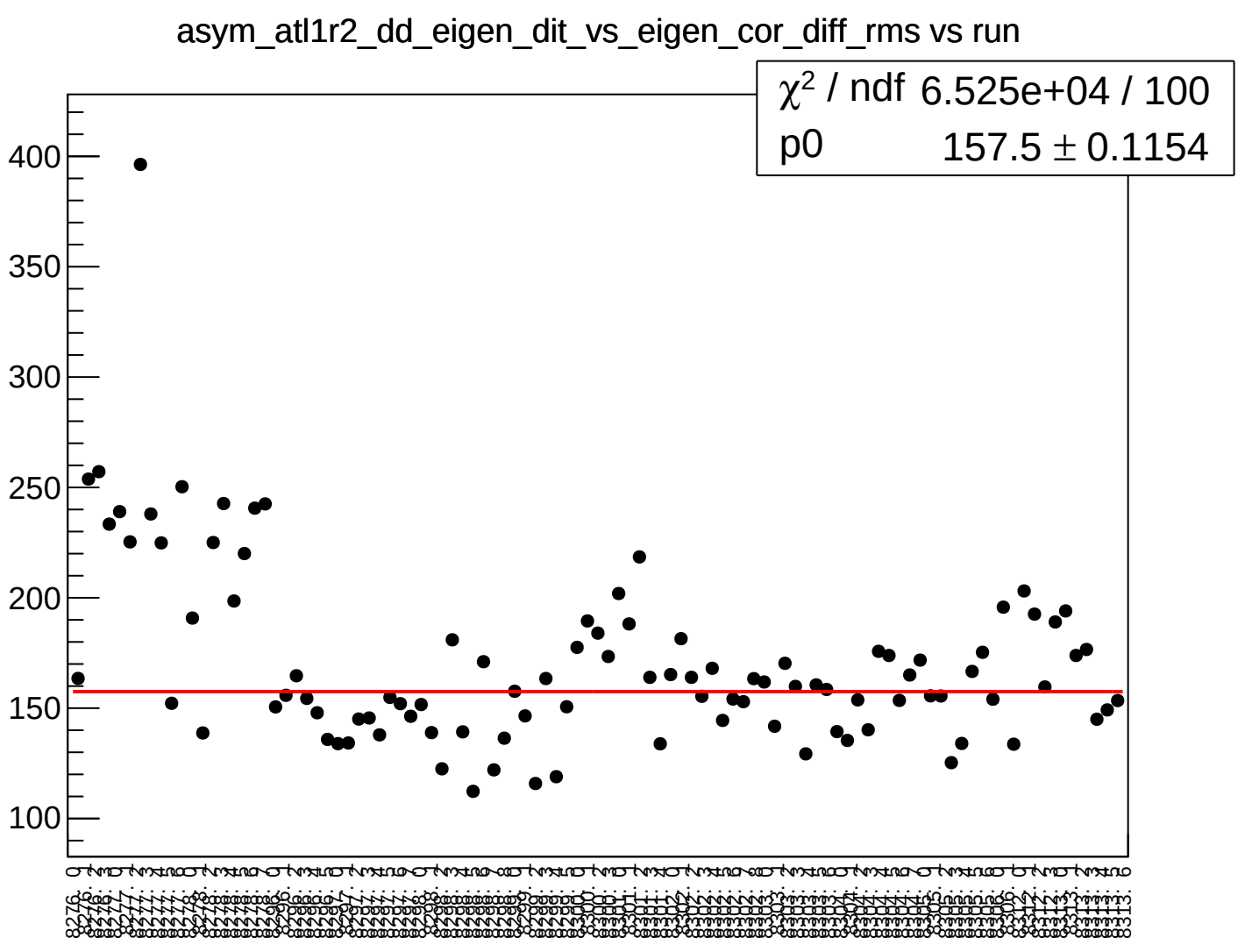

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 108.7 / 100
p0 1.027e−05 ± 6.784e−06
pull
Entries 101
Mean 149.7
Std Dev 0
pull1D
Entries 101
Mean 0.07408
Std Dev 1.035

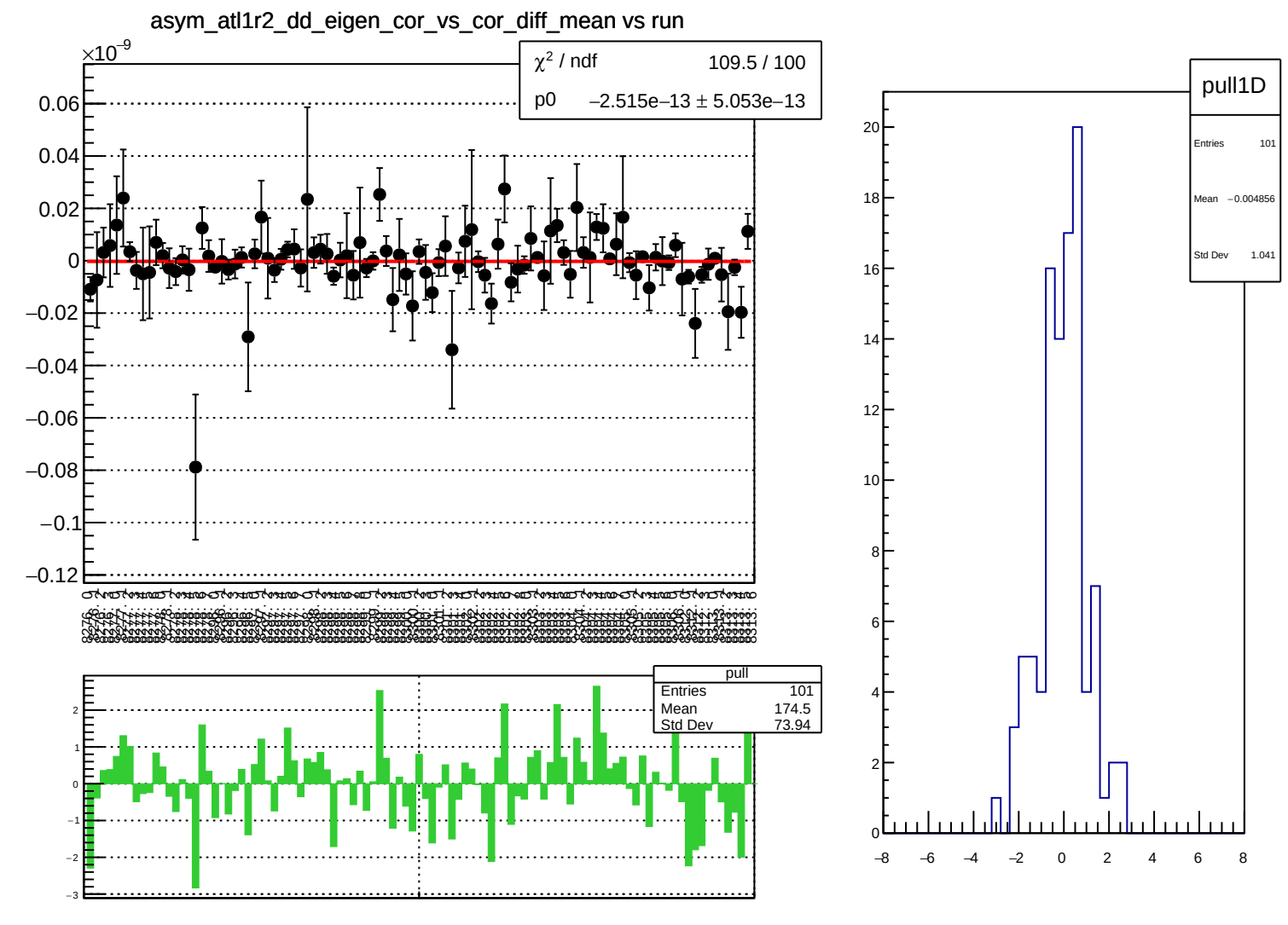

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.287e+05 / 100
p0 0.005872 ± 4.797e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

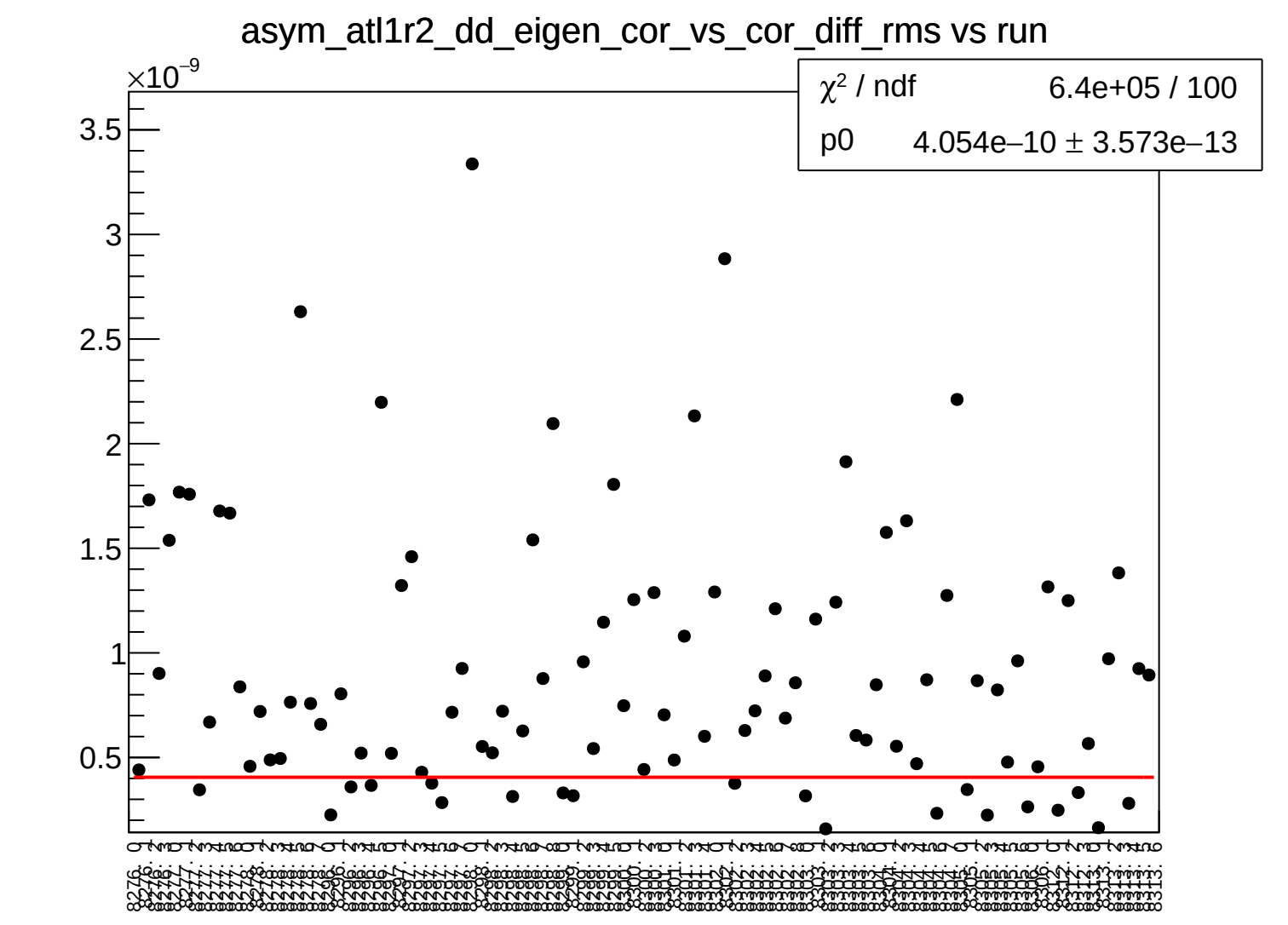

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 102 / 100
p0 0.2898 ± 0.1632
pull
Entries 101
Mean 275.1
Std Dev 0
pull1D
Entries 101
Mean 0.01957
Std Dev 1.005

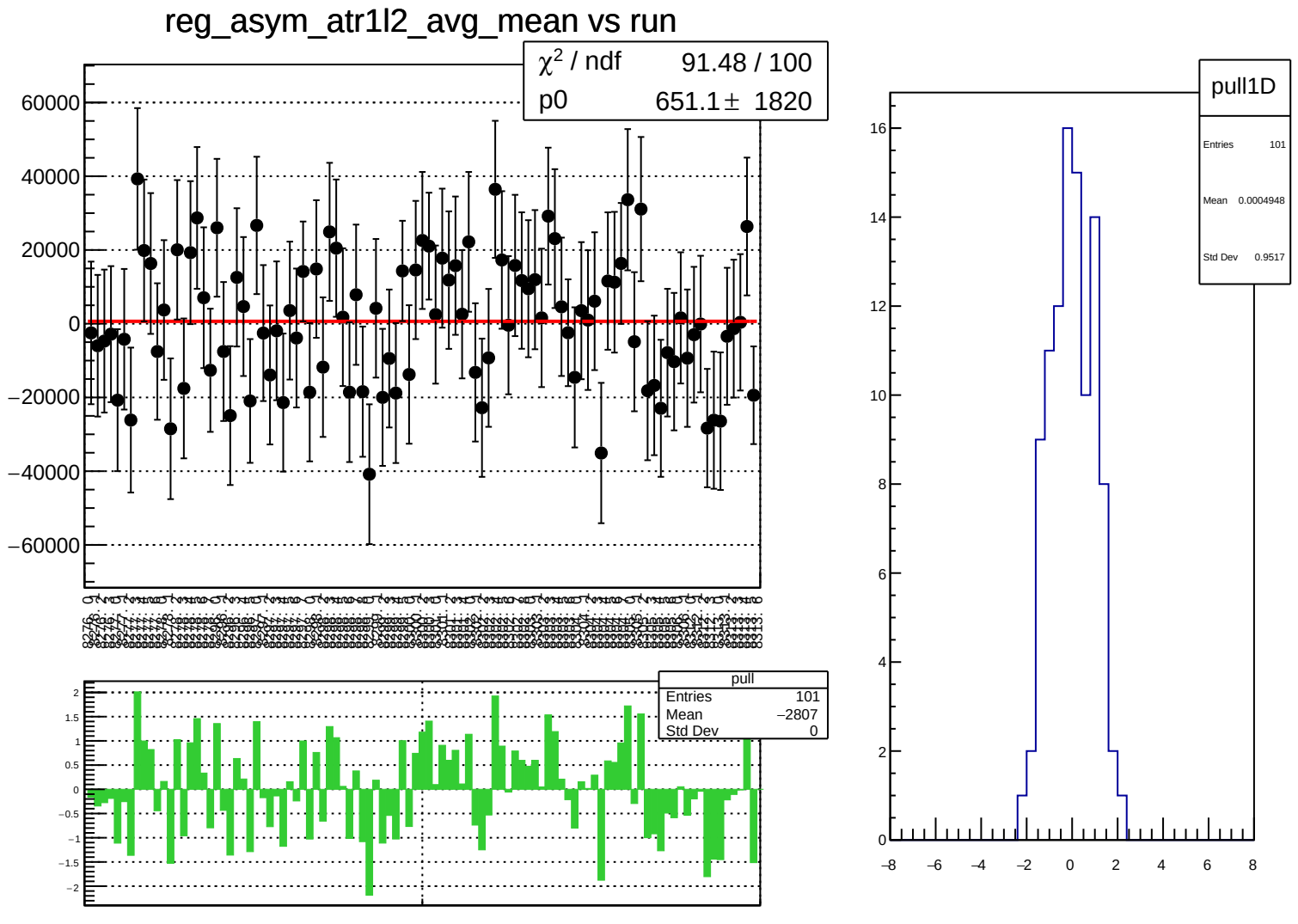

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.525e+04 / 100
p0 157.5 ± 0.1154
400
350
300
250
200
150
100

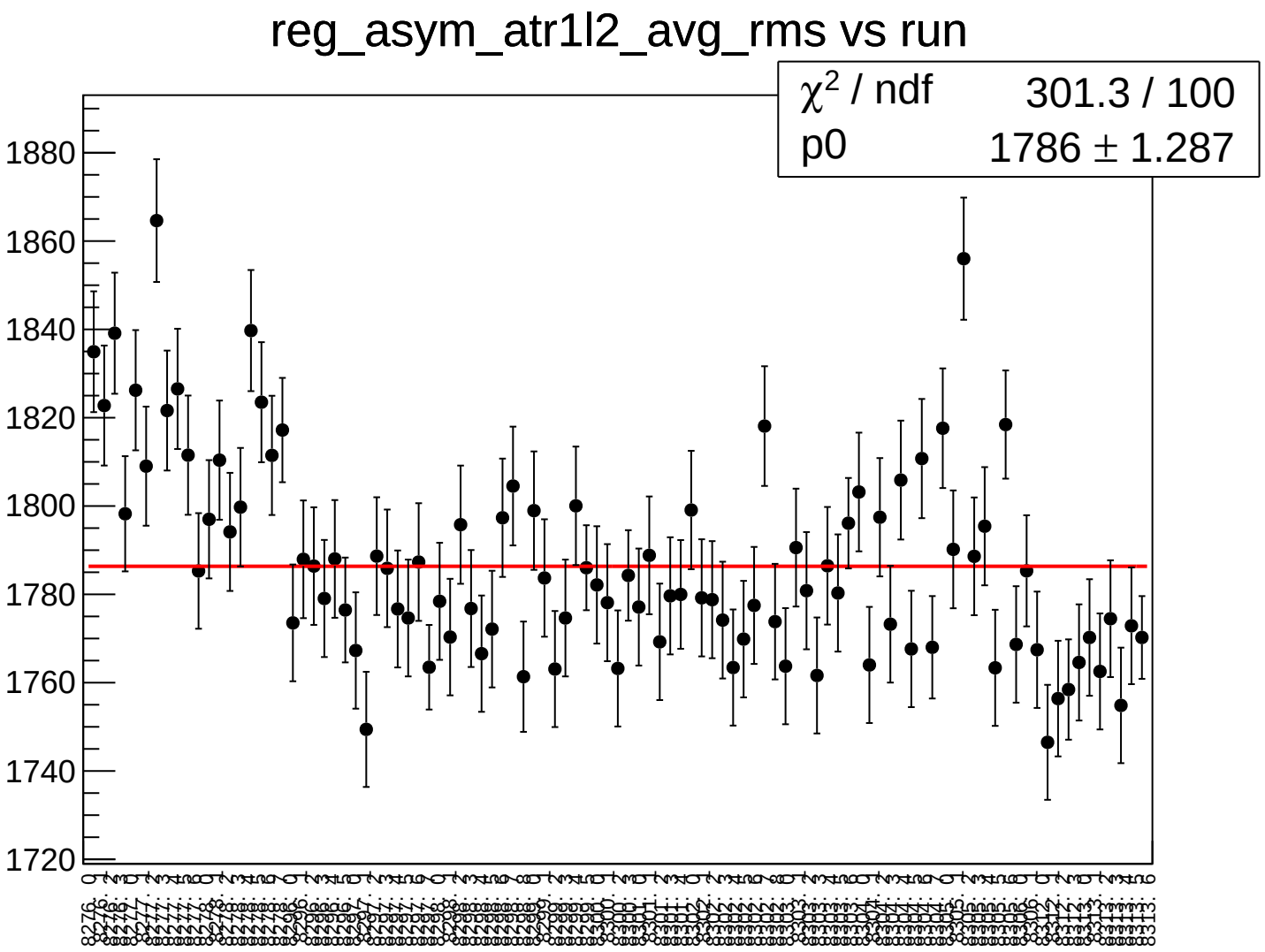

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102 / 100
p0 0.2898 ± 0.1632
pull
Entries 101
Mean 275.1
Std Dev 0
pull1D
Entries 101
Mean 0.01957
Std Dev 1.005

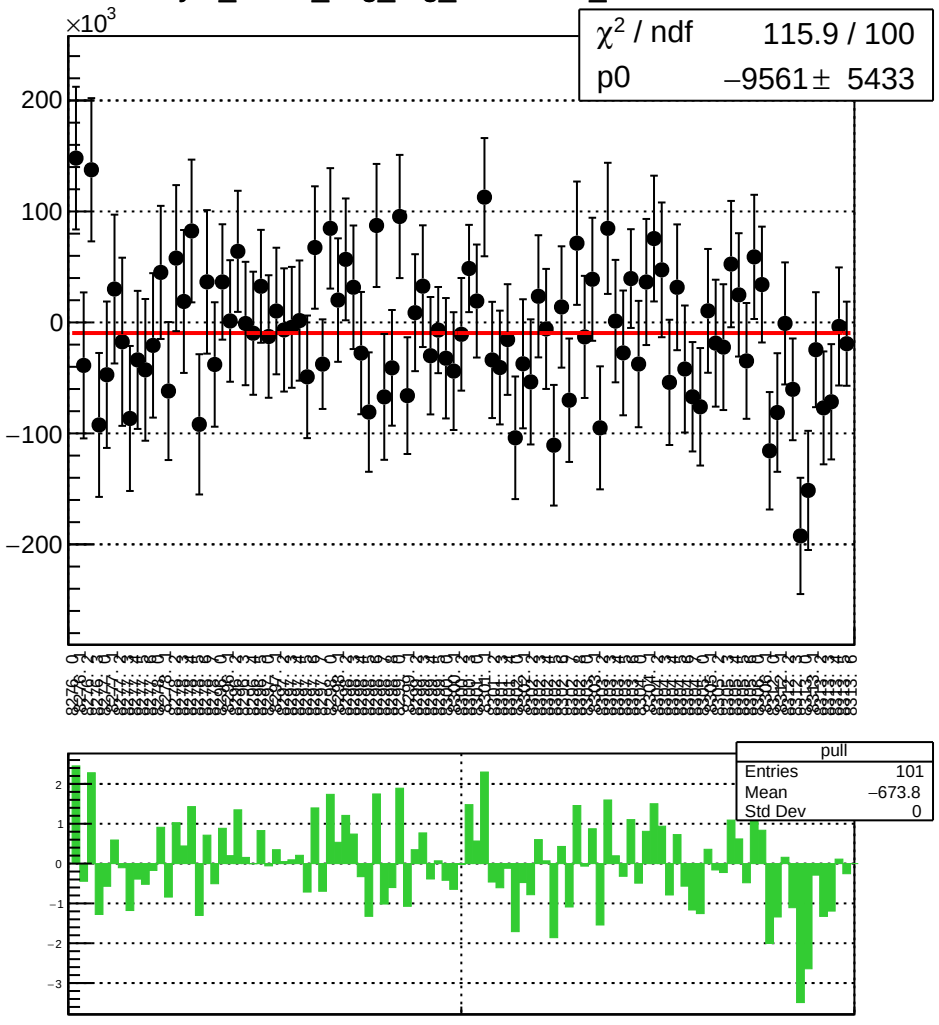

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.525e+04 / 100
p0 157.5 ± 0.1154
400
350
300
250
200
150
100

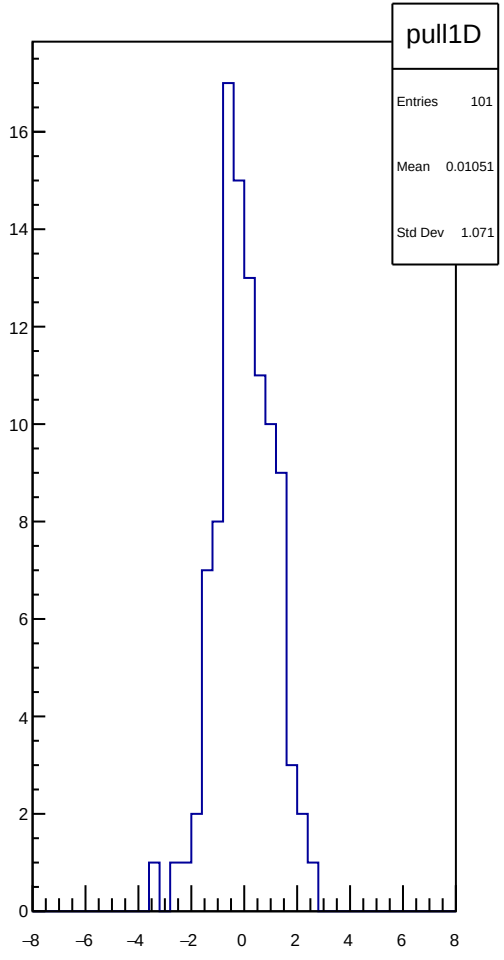

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 109.5 / 100
p0 −2.515e−13 ± 5.053e−13
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
pull
Entries 101
Mean 174.5
Std Dev 73.94
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean −0.004856
Std Dev 1.041
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

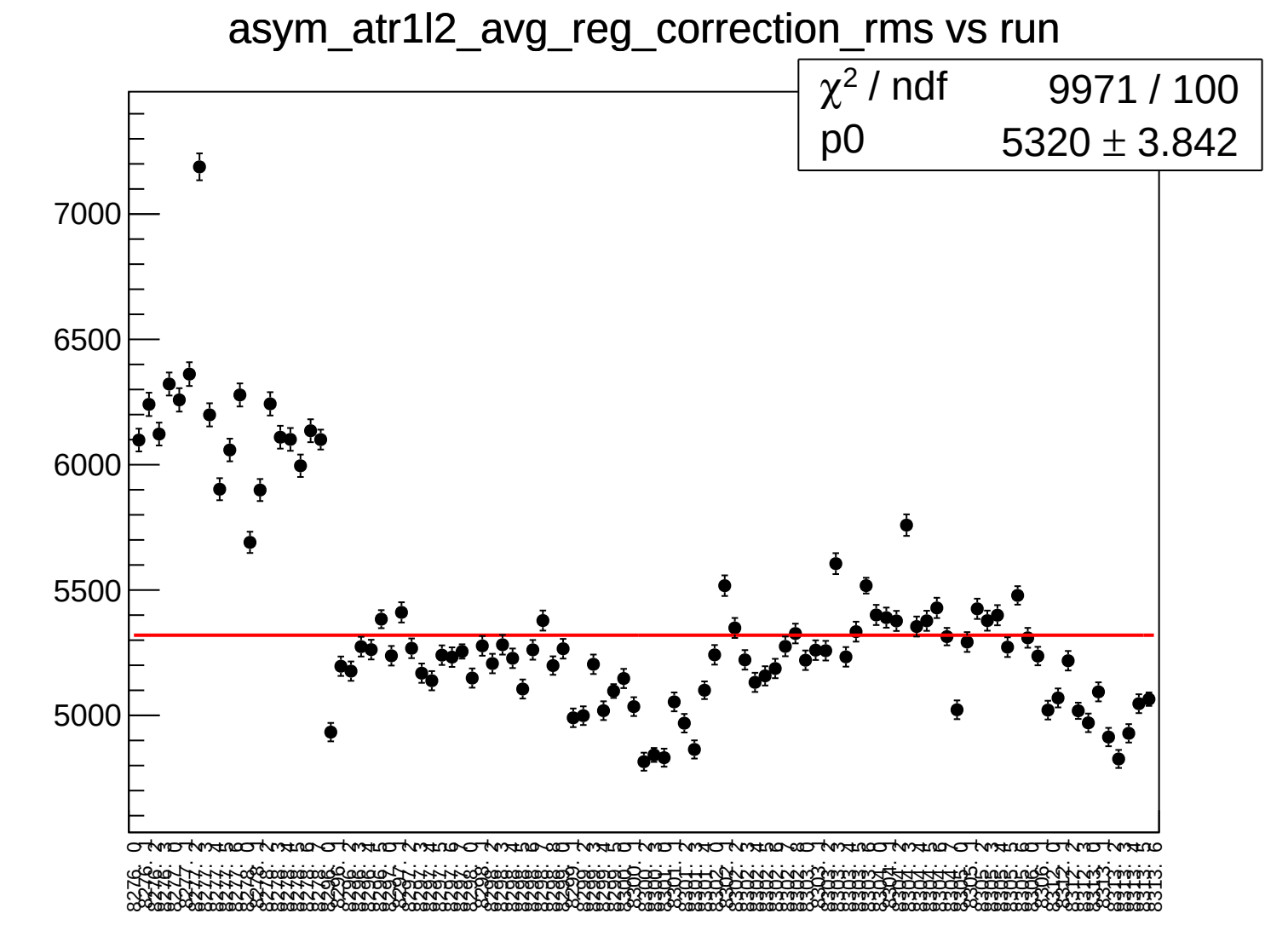

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.4e+05 / 100
p0 4.054e−10 ± 3.573e−13
3.5
3
2.5
2
1.5
1
0.5

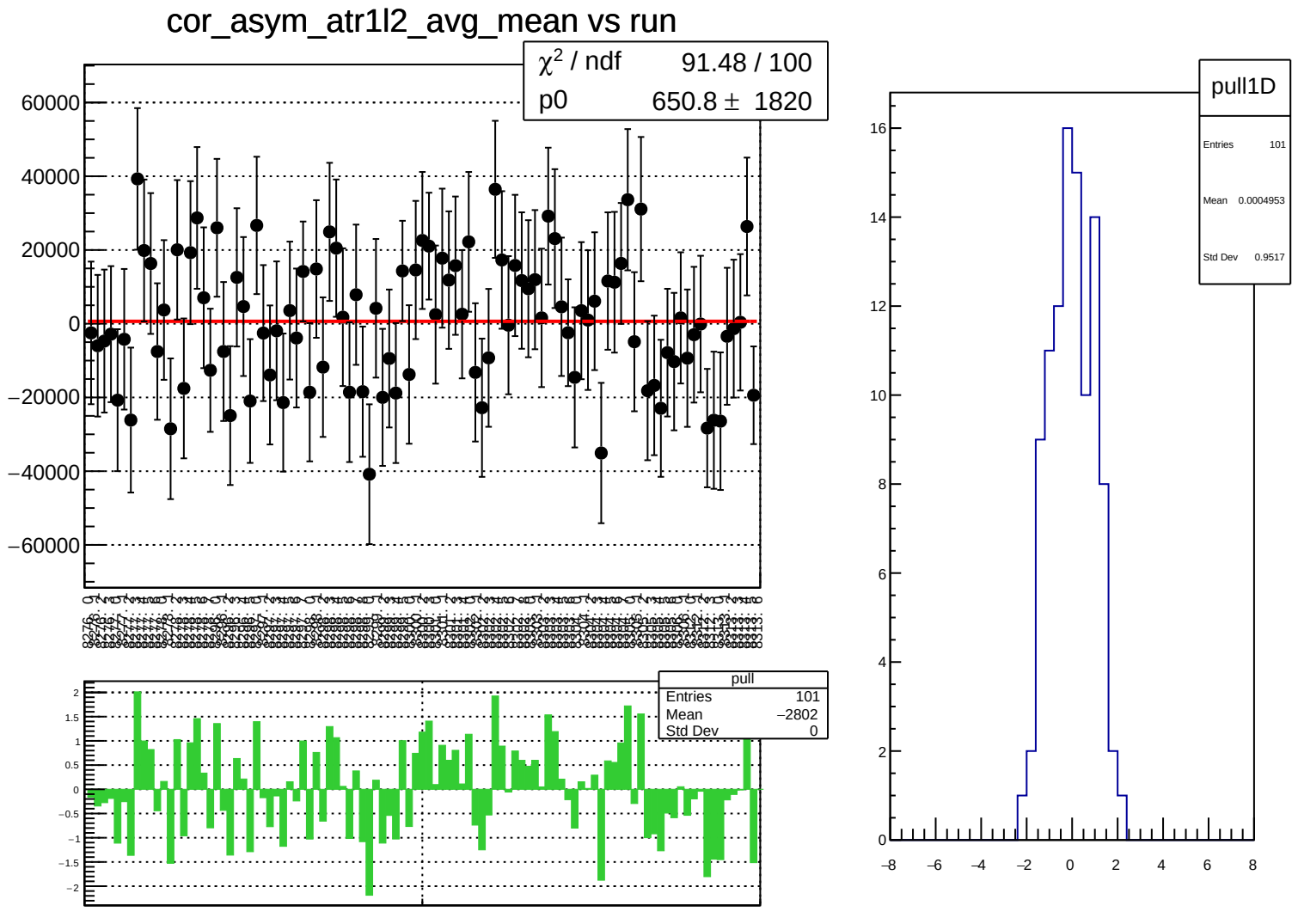

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 91.48 / 100
p0 651.1 ± 1820
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −2807
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 101
Mean 0.0004948
Std Dev 0.9517
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

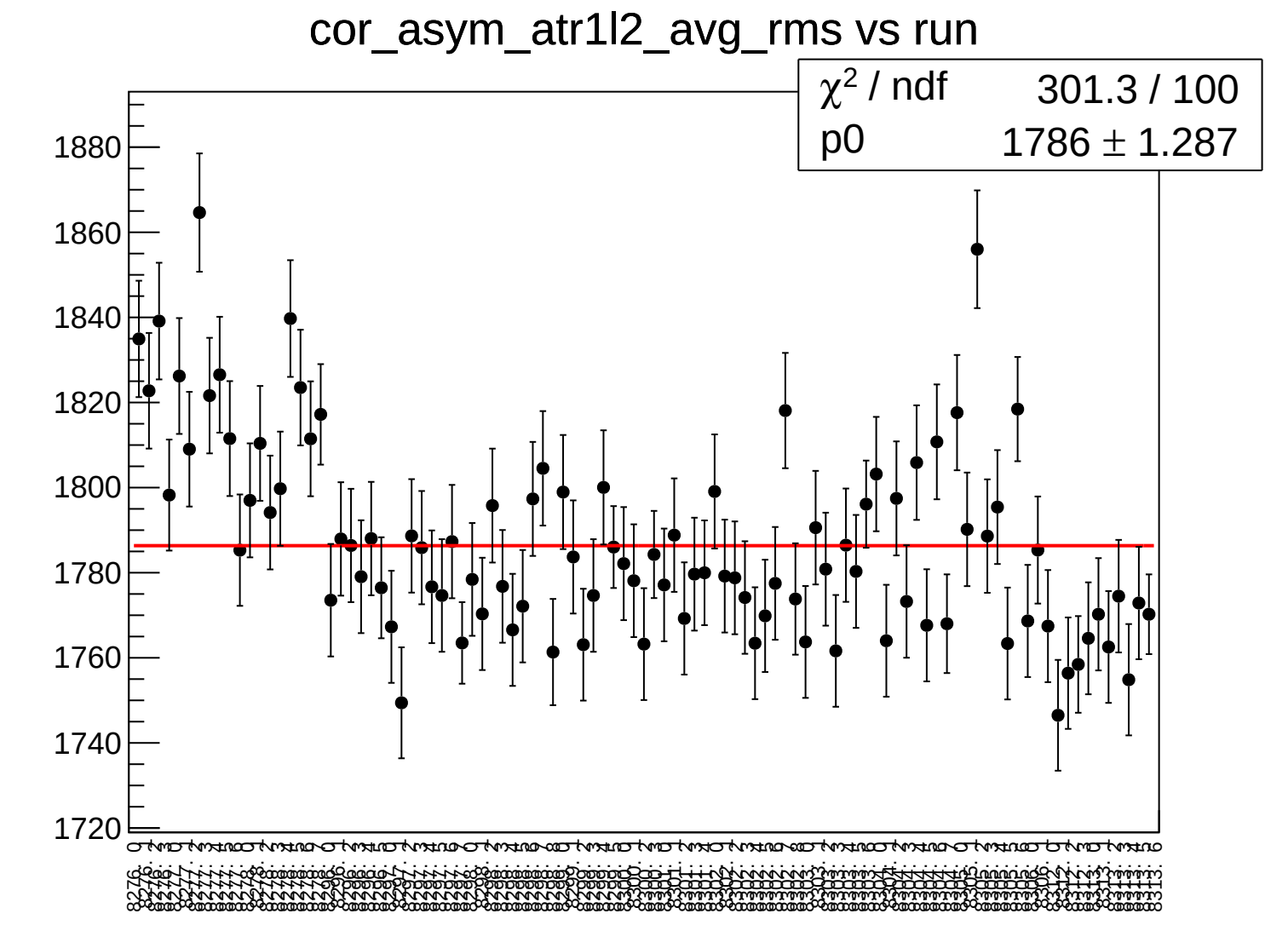

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 301.3 / 100
p0 1786 ± 1.287
1880
1860
1840
1820
1800
1780
1760
1740
1720

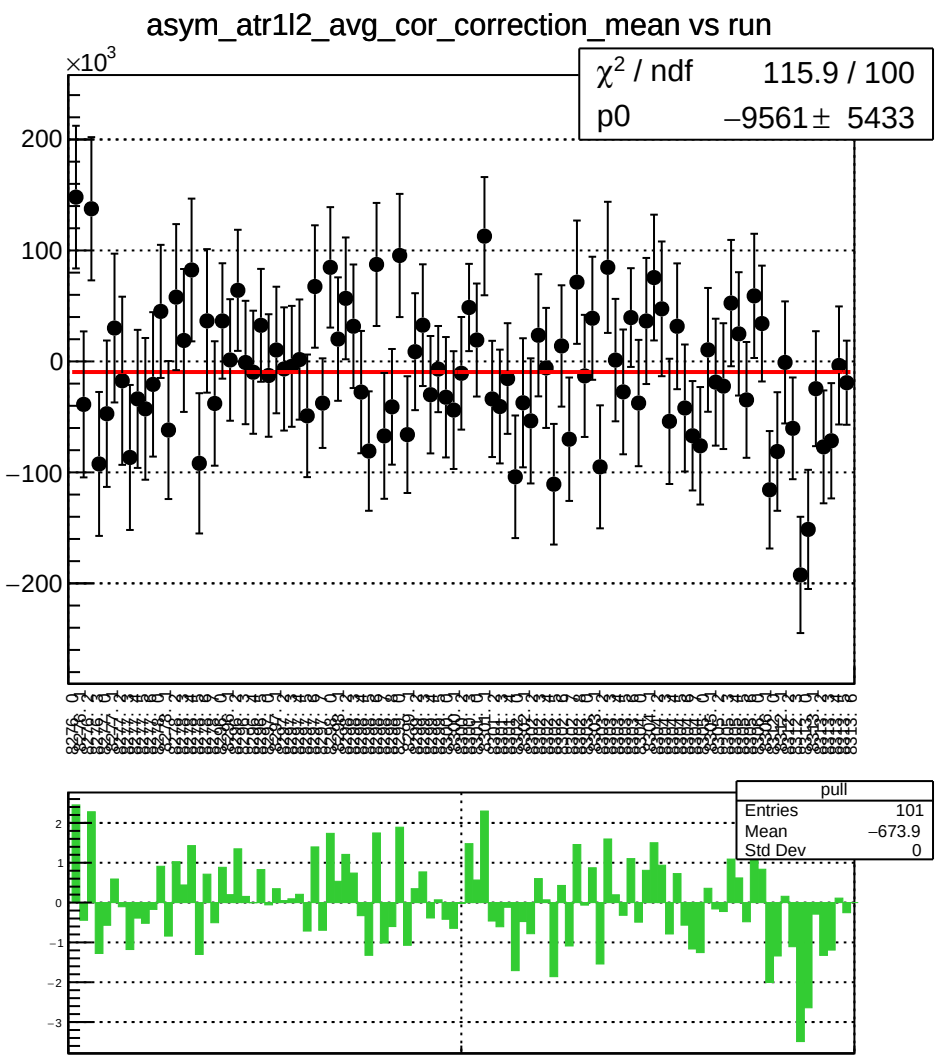

asym_atr1l2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 115.9 / 100
p0 −9561 ± 5433
200
100
0
−100
−200
pull
Entries 101
Mean −673.8
Std Dev 0
2
1
0
−1
−2
−3

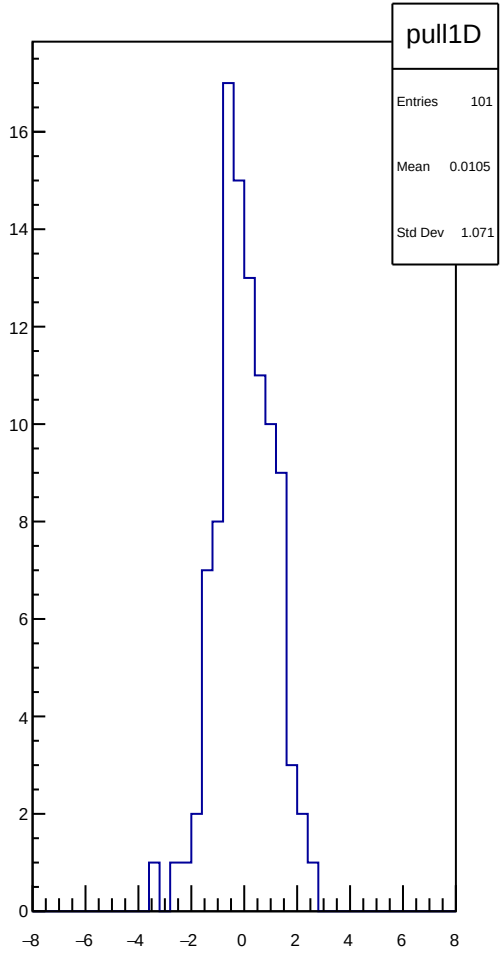

pull1D
Entries 101
Mean 0.01051
Std Dev 1.071
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

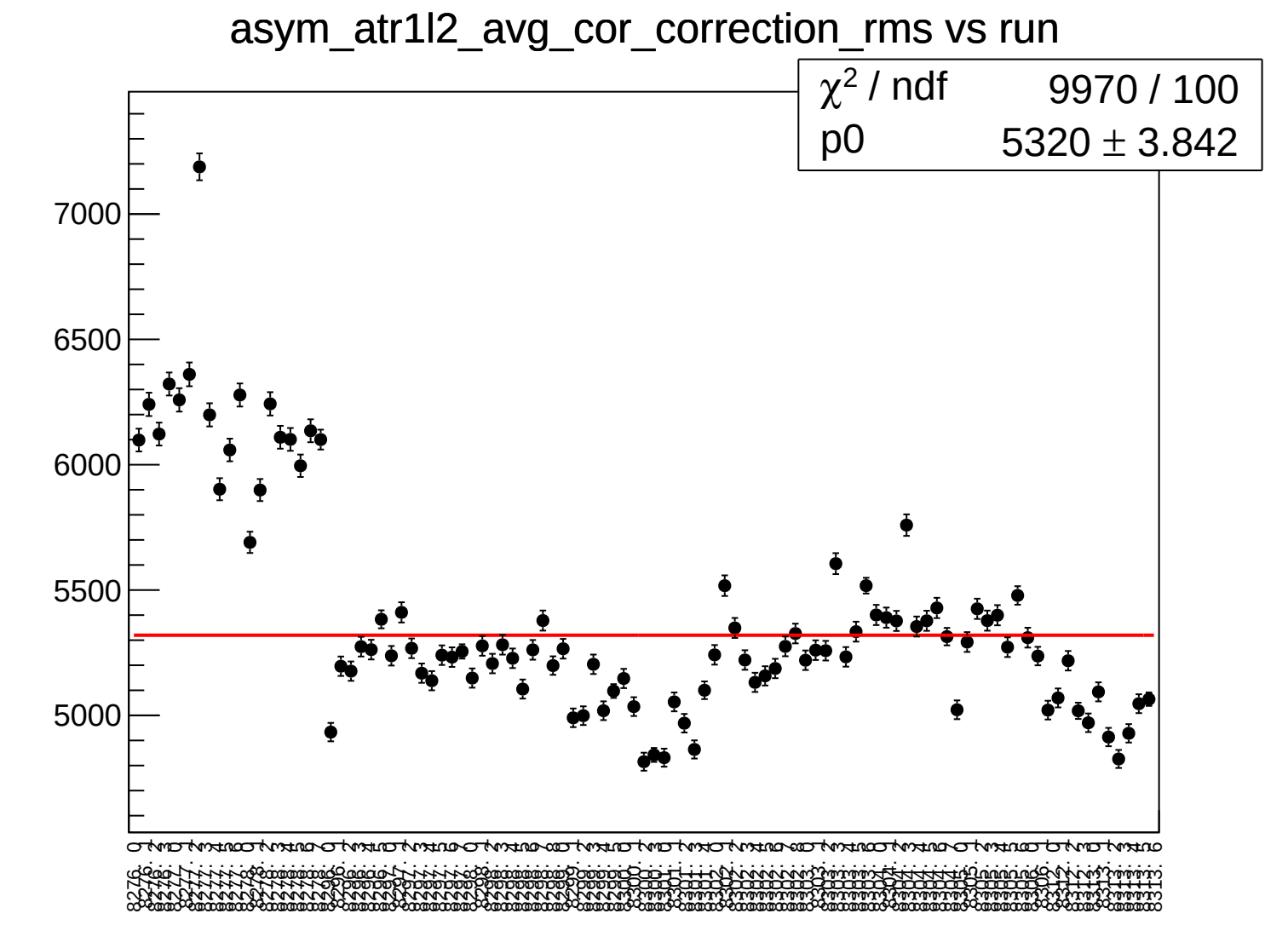

asym_atr1l2_avg_reg_correction_rms vs run
χ^2 / ndf 9971 / 100
p0 5320 ± 3.842
7000
6500
6000
5500
5000

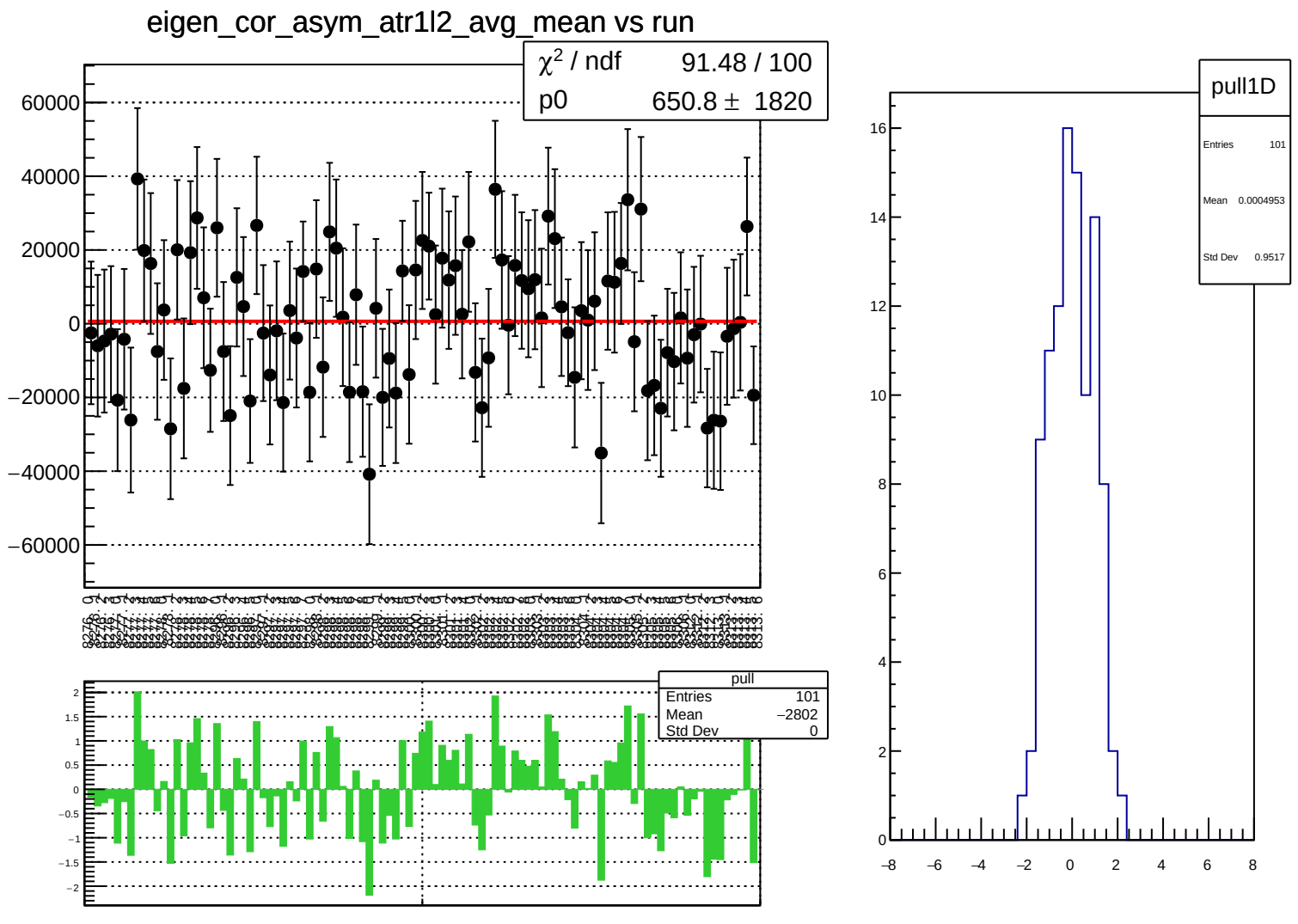

cor_asym_atr1l2_avg_mean vs run
χ² / ndf 91.48 / 100
p0 650.8 ± 1820
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −2802
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 101
Mean 0.0004953
Std Dev 0.9517
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

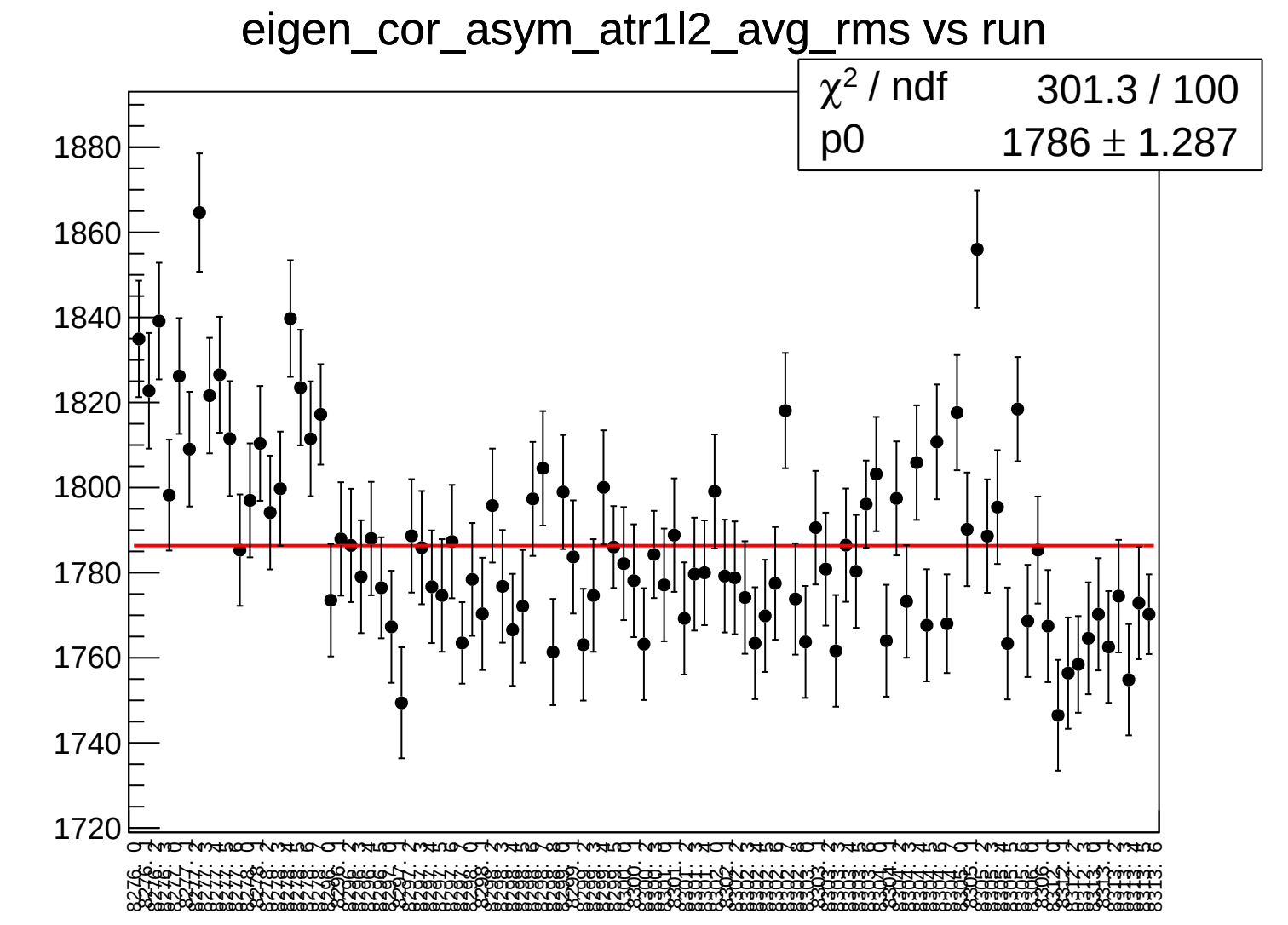

cor_asym_atr1l2_avg_rms vs run
χ² / ndf 301.3 / 100
p0 1786 ± 1.287
1880
1860
1840
1820
1800
1780
1760
1740
1720

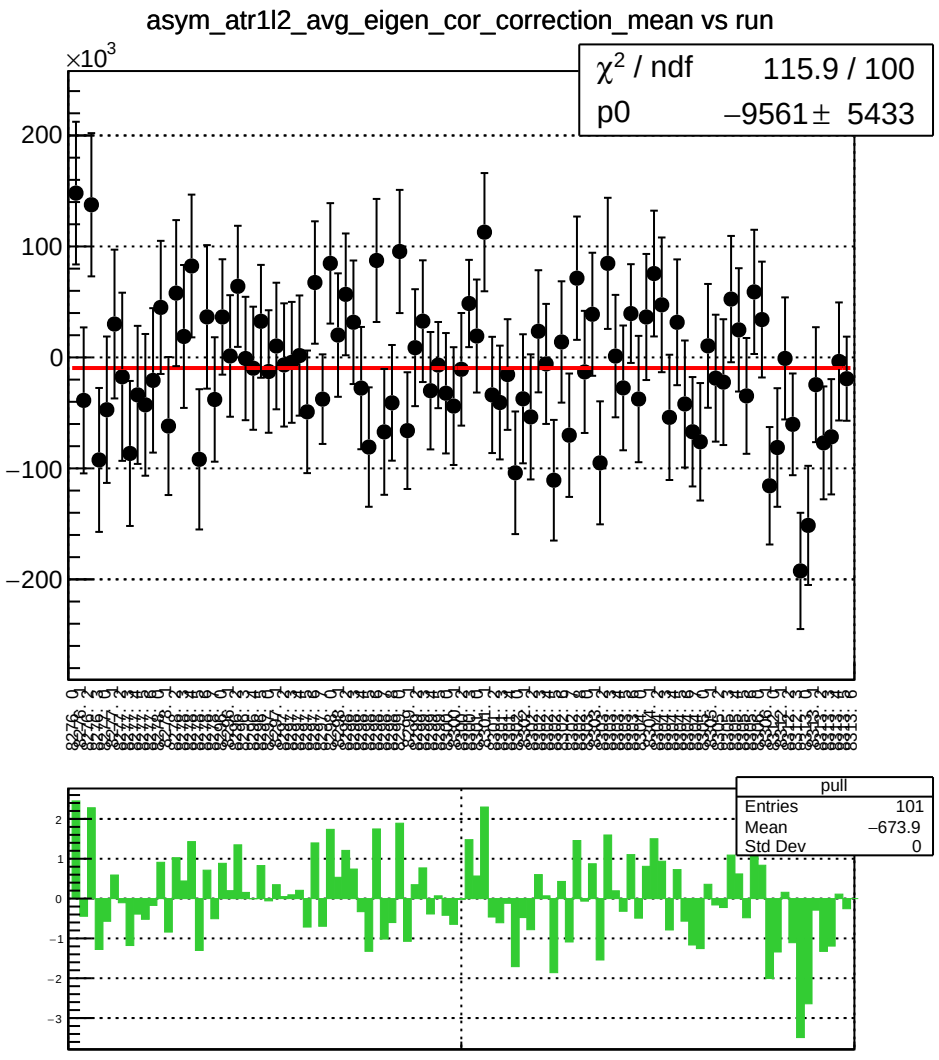

asym_atr1l2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 115.9 / 100
p0 −9561 ± 5433
200
100
0
−100
−200
pull
Entries 101
Mean −673.9
Std Dev 0
2
1
0
−1
−2
−3

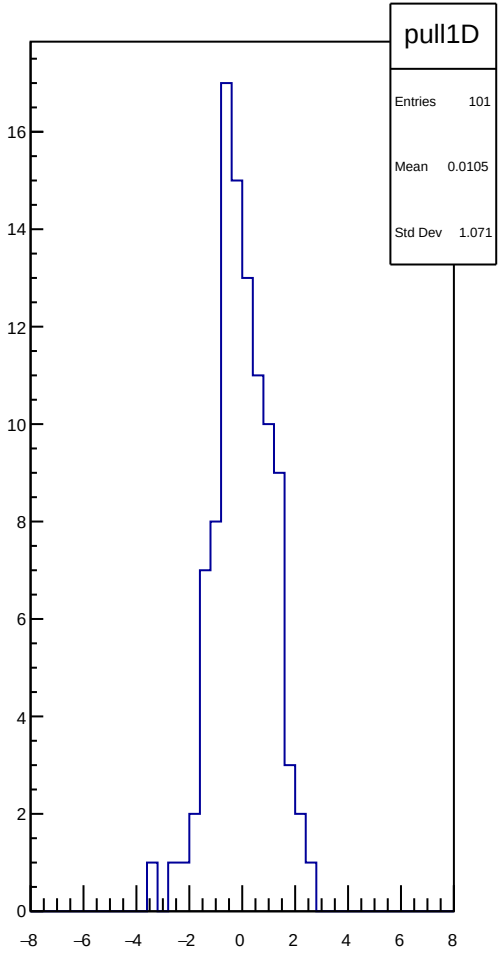

pull1D
Entries 101
Mean 0.0105
Std Dev 1.071
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1l2_avg_cor_correction_rms vs run
χ² / ndf 9970 / 100
p0 5320 ± 3.842
7000
6500
6000
5500
5000


eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 91.48 / 100
p0 650.8 ± 1820
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −2802
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 101
Mean 0.0004953
Std Dev 0.9517
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_atr1l2_avg_rms vs run
χ² / ndf 301.3 / 100
p0 1786 ± 1.287
1880
1860
1840
1820
1800
1780
1760
1740
1720


asym_atr1l2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 115.9 / 100
p0 −9561 ± 5433
200
100
0
−100
−200
pull
Entries 101
Mean −673.9
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 101
Mean 0.0105
Std Dev 1.071
16
14
12
10
8
6
4
2
0
−8
−6
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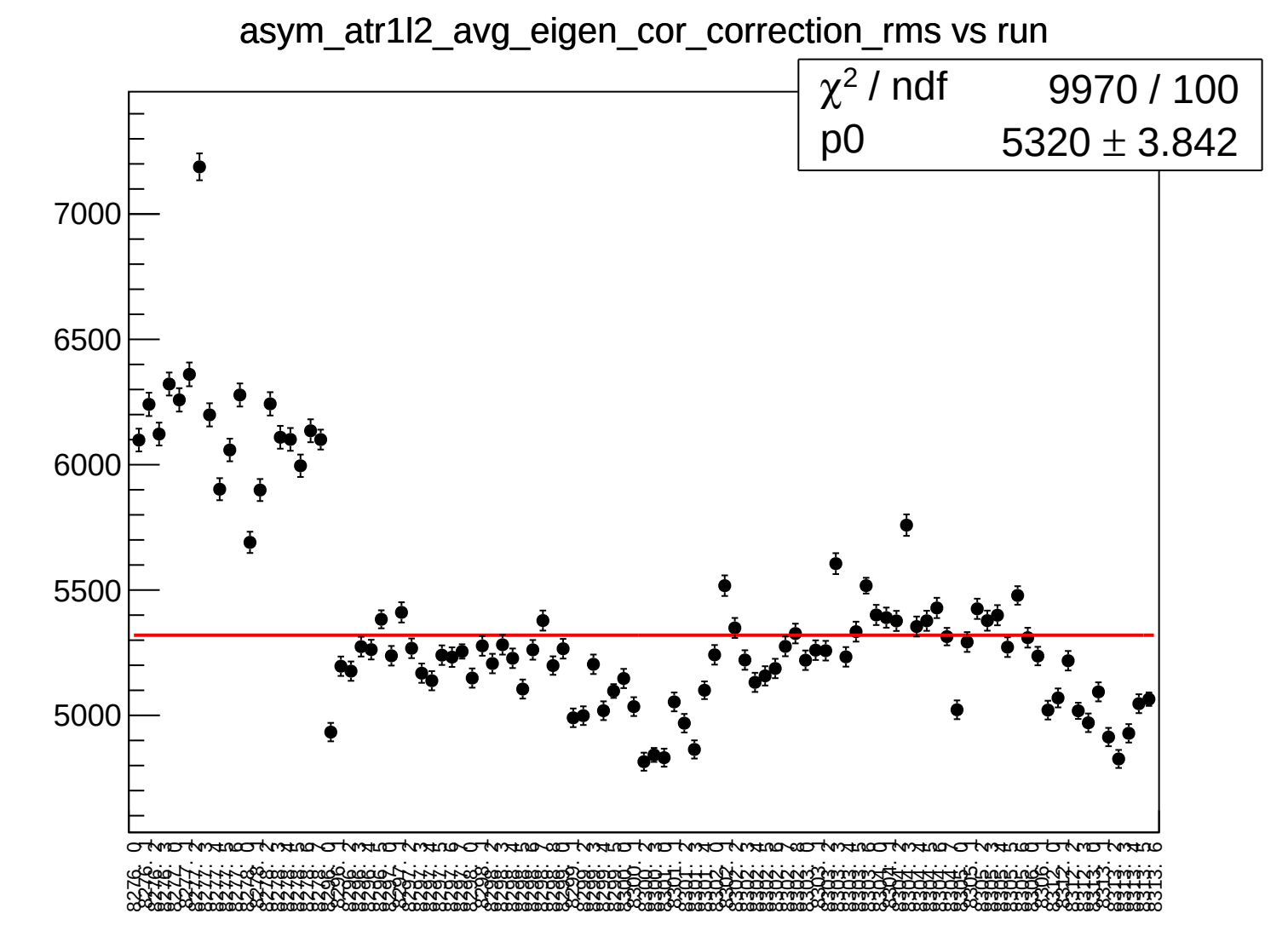
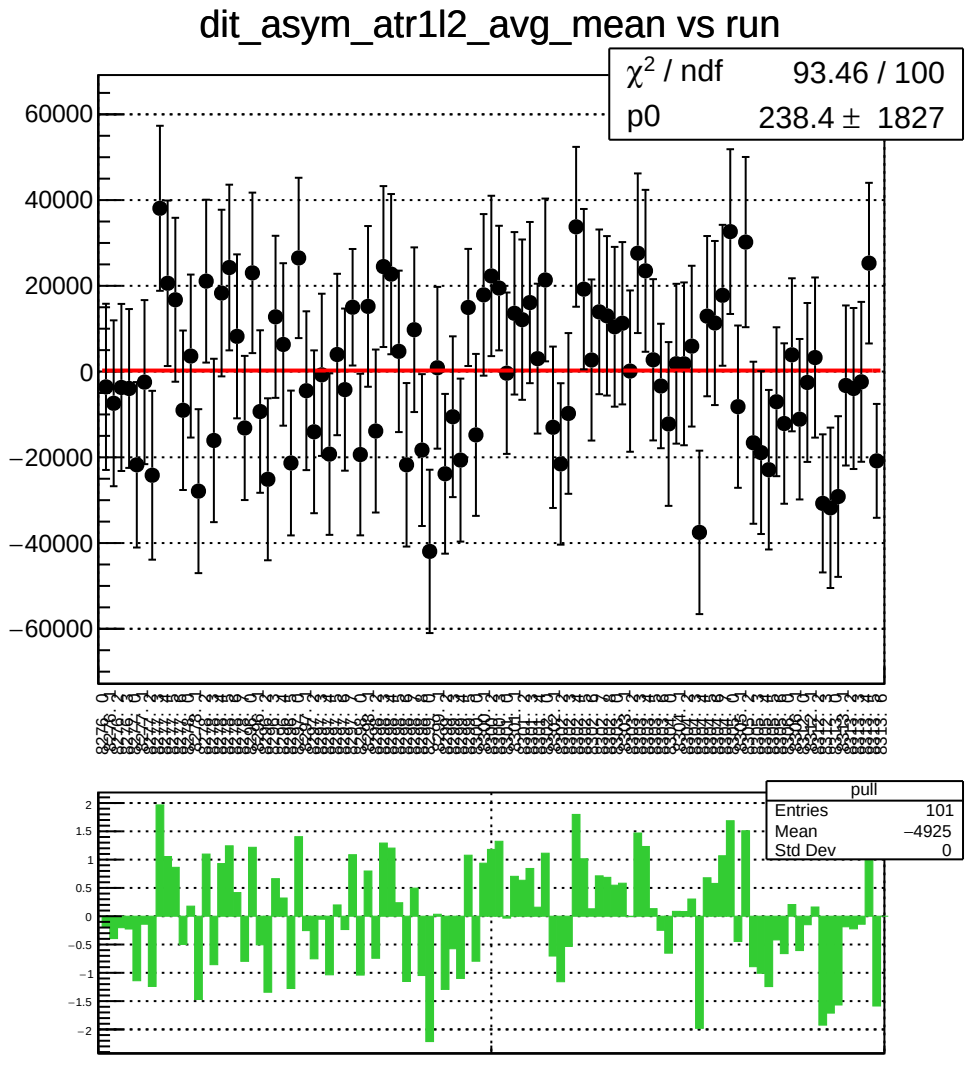
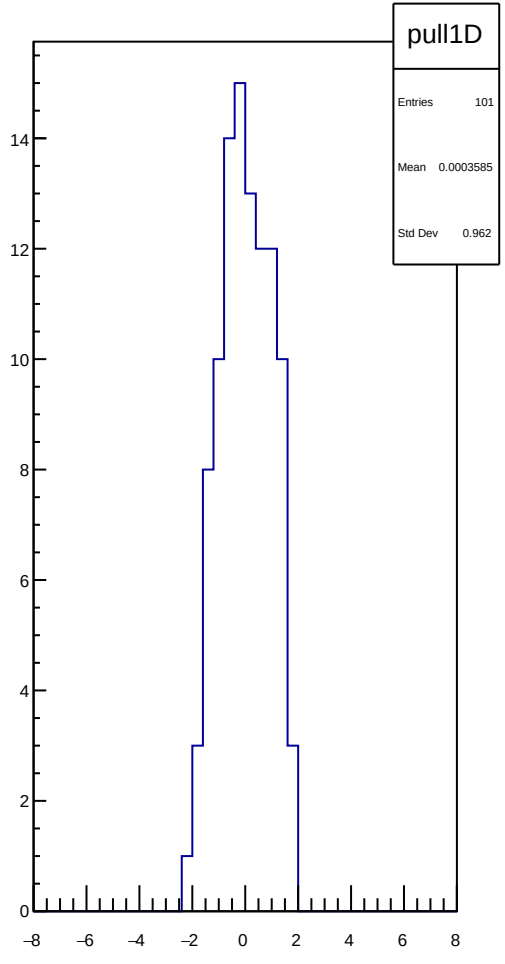
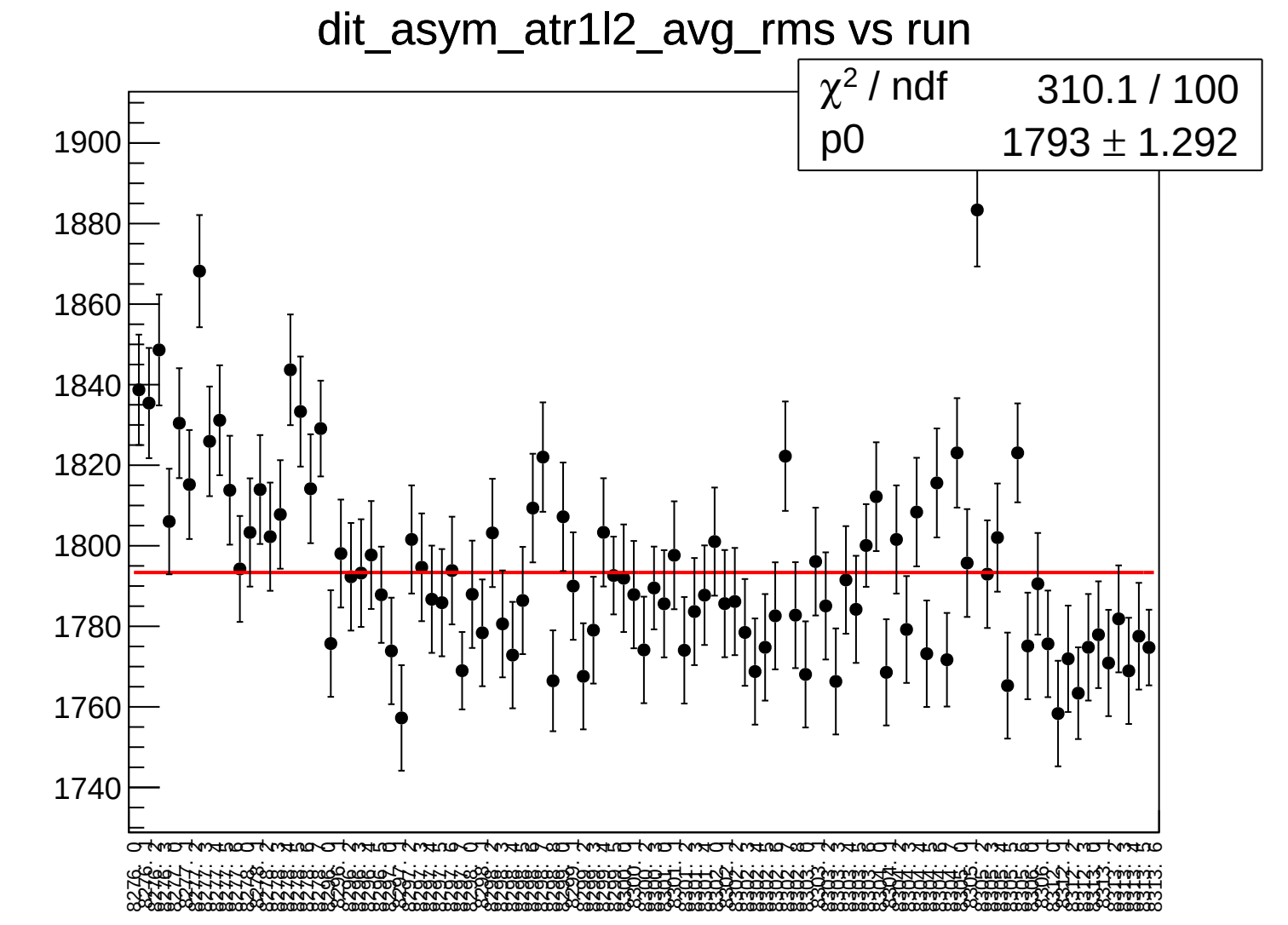
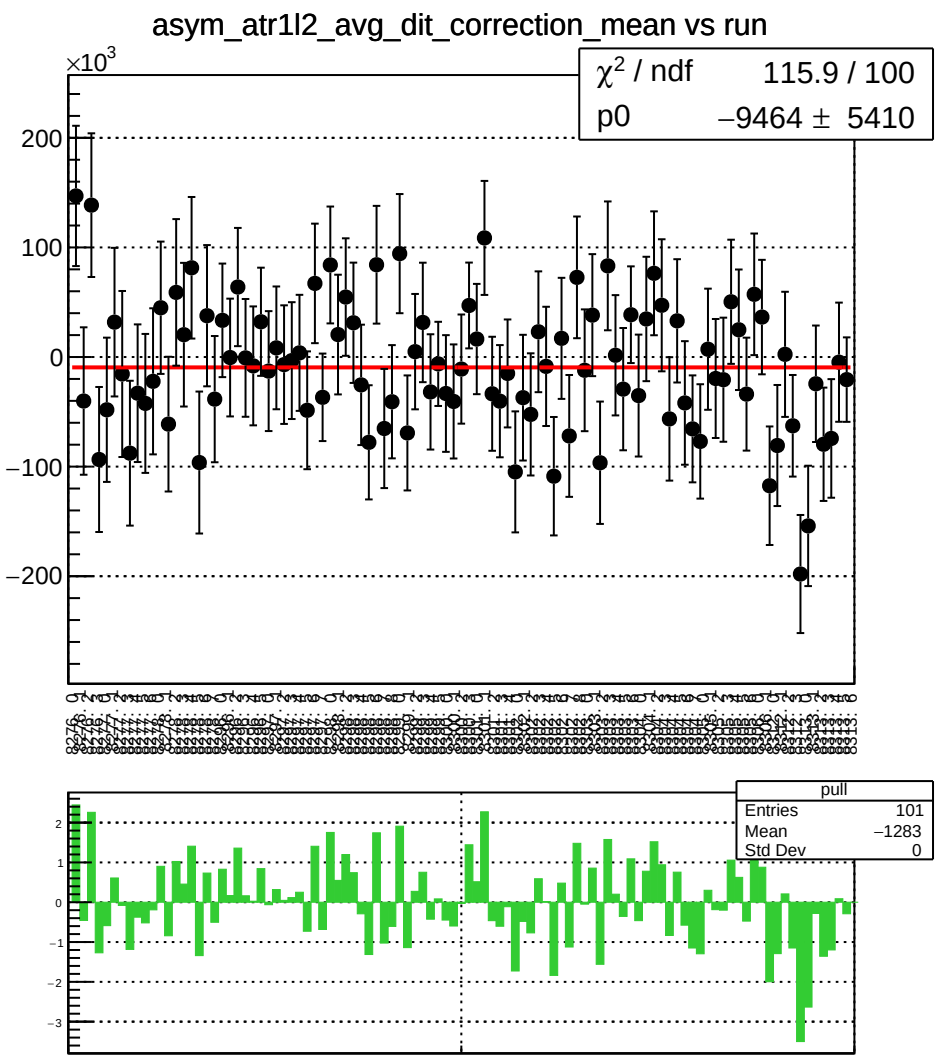
0
2
4
6
8

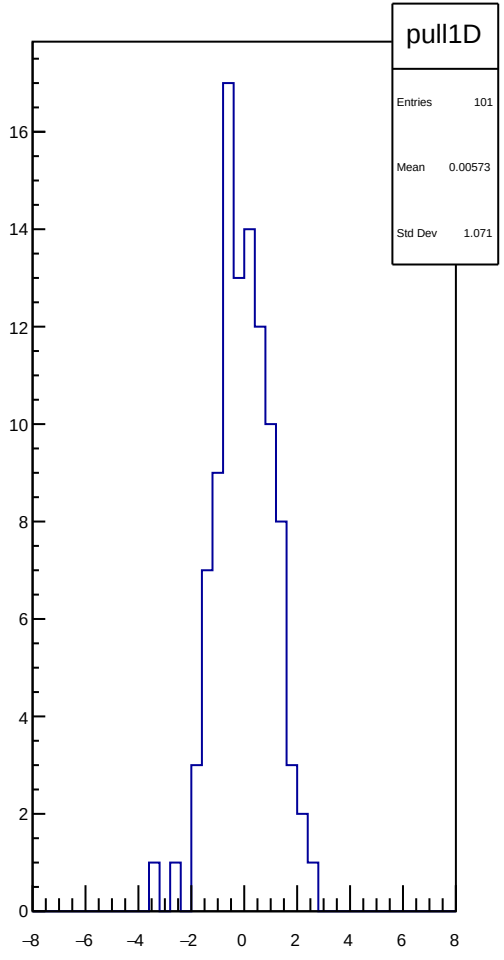

asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ² / ndf 9970 / 100
p0 5320 ± 3.842
7000
6500
6000
5500
5000


dit_asym_atr1l2_avg_mean vs run
χ² / ndf 93.46 / 100
p0 238.4 ± 1827
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −4925
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 101
Mean 0.0003585
Std Dev 0.962
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_atr1l2_avg_rms vs run
χ² / ndf 310.1 / 100
p0 1793 ± 1.292
1900
1880
1860
1840
1820
1800
1780
1760
1740


asym_atr1l2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 115.9 / 100
p0 −9464 ± 5410
200
100
0
−100
−200
pull
Entries 101
Mean −1283
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 101
Mean 0.00573
Std Dev 1.071
16
14
12
10
8
6
4
2
0
−8
−6
−4
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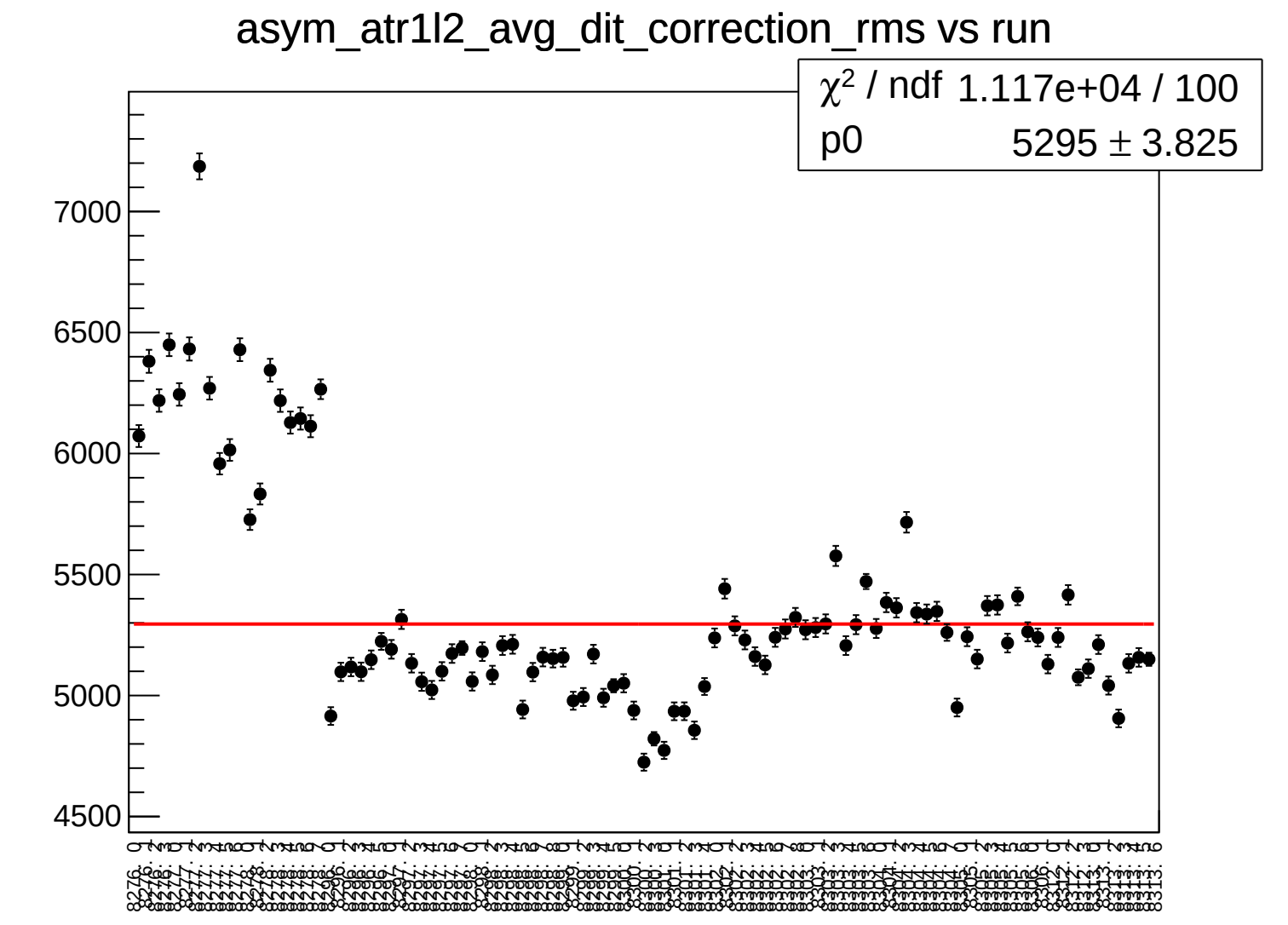
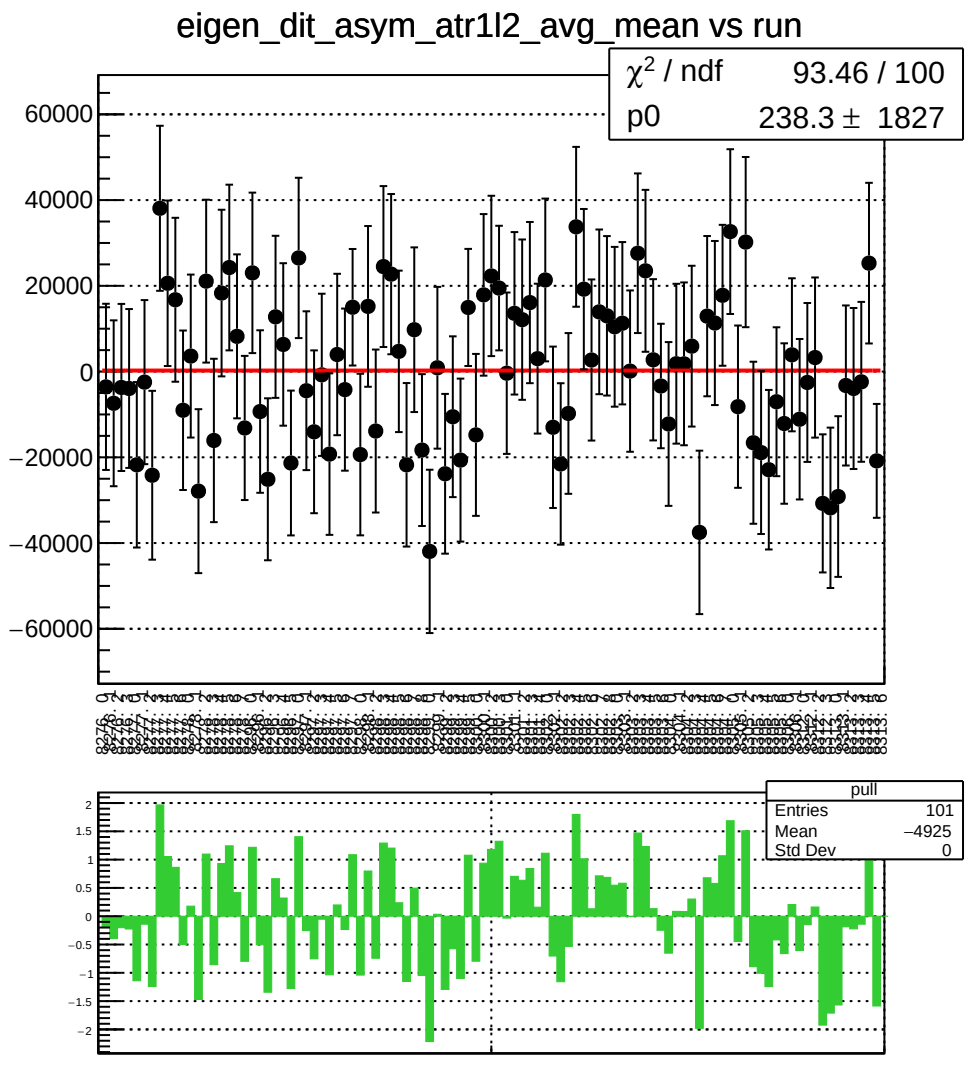
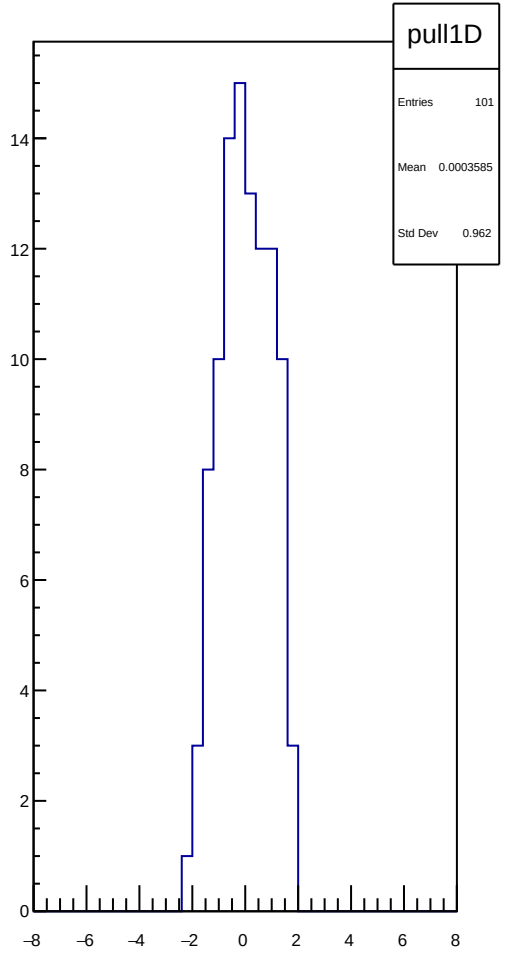
0
2
4
6
8


asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 1.117e+04 / 100
p0 5295 ± 3.825
7000
6500
6000
5500
5000
4500


eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 93.46 / 100
p0 238.3 ± 1827
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −4925
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 101
Mean 0.0003585
Std Dev 0.962
14
12
10
8
6
4
2
0
−8
−6
−4
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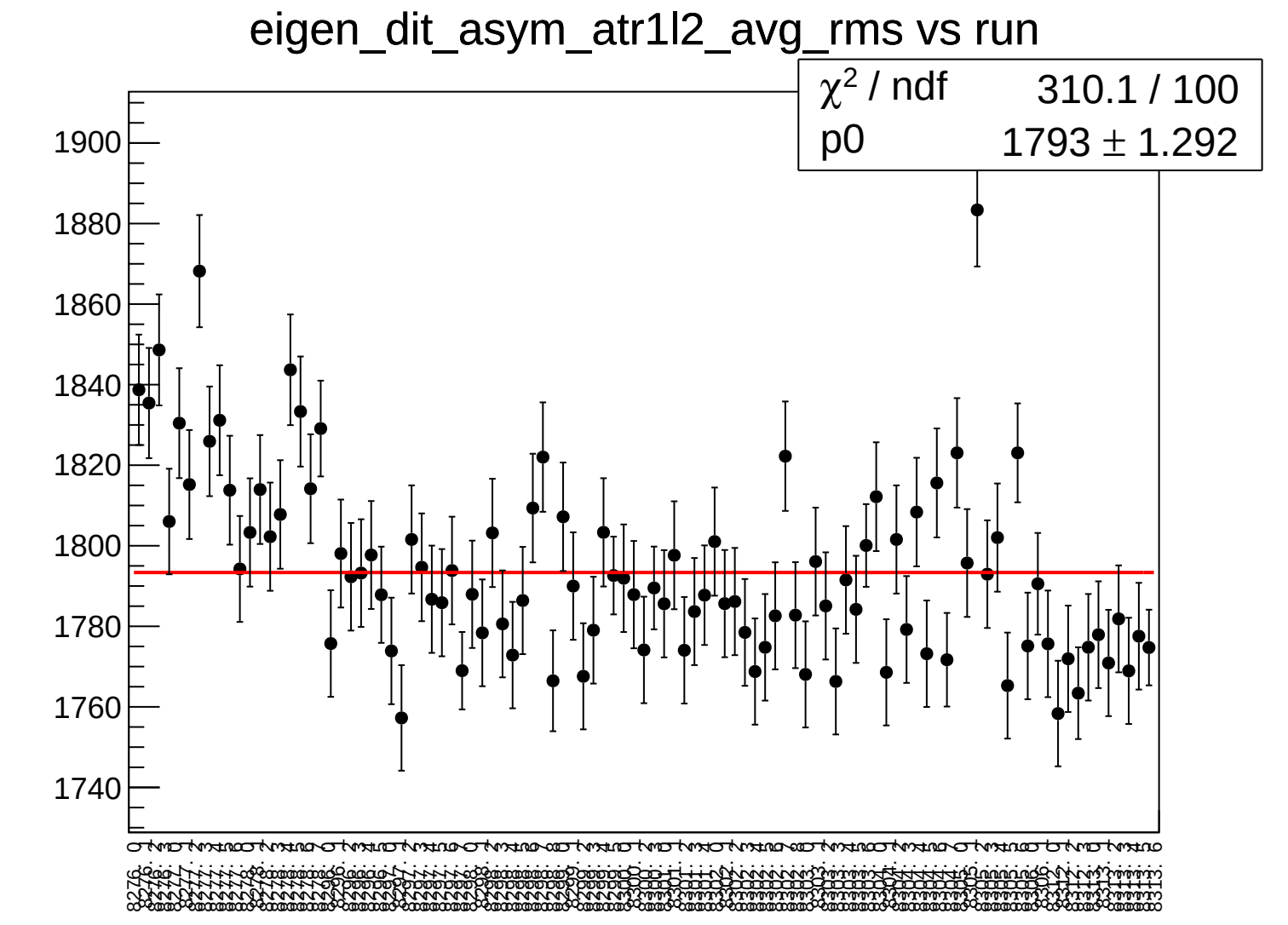
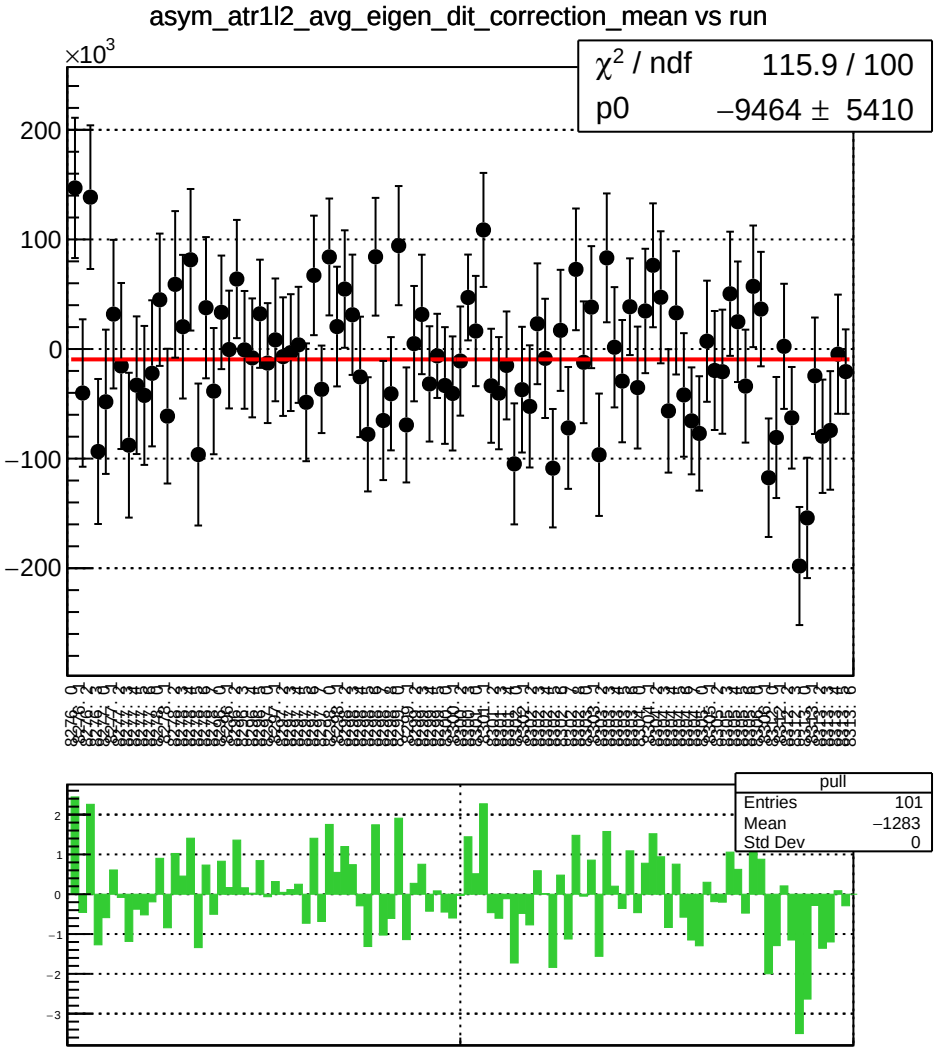
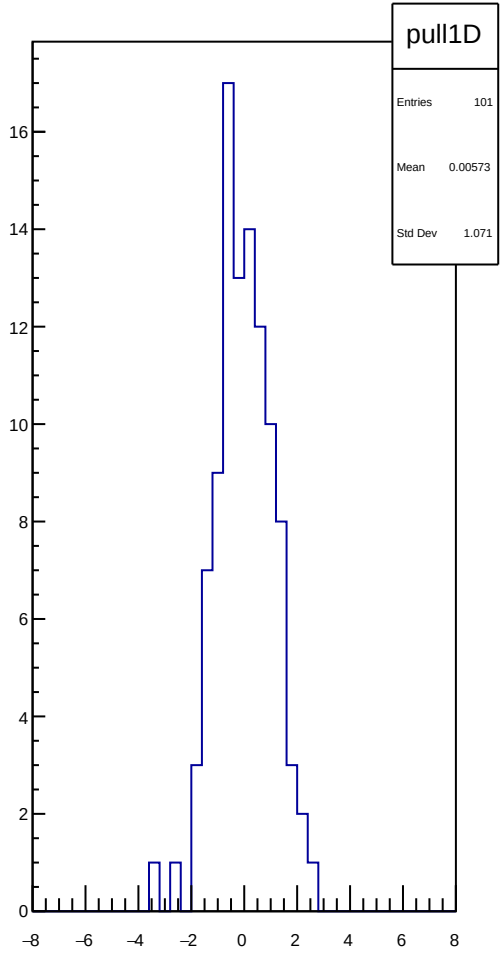
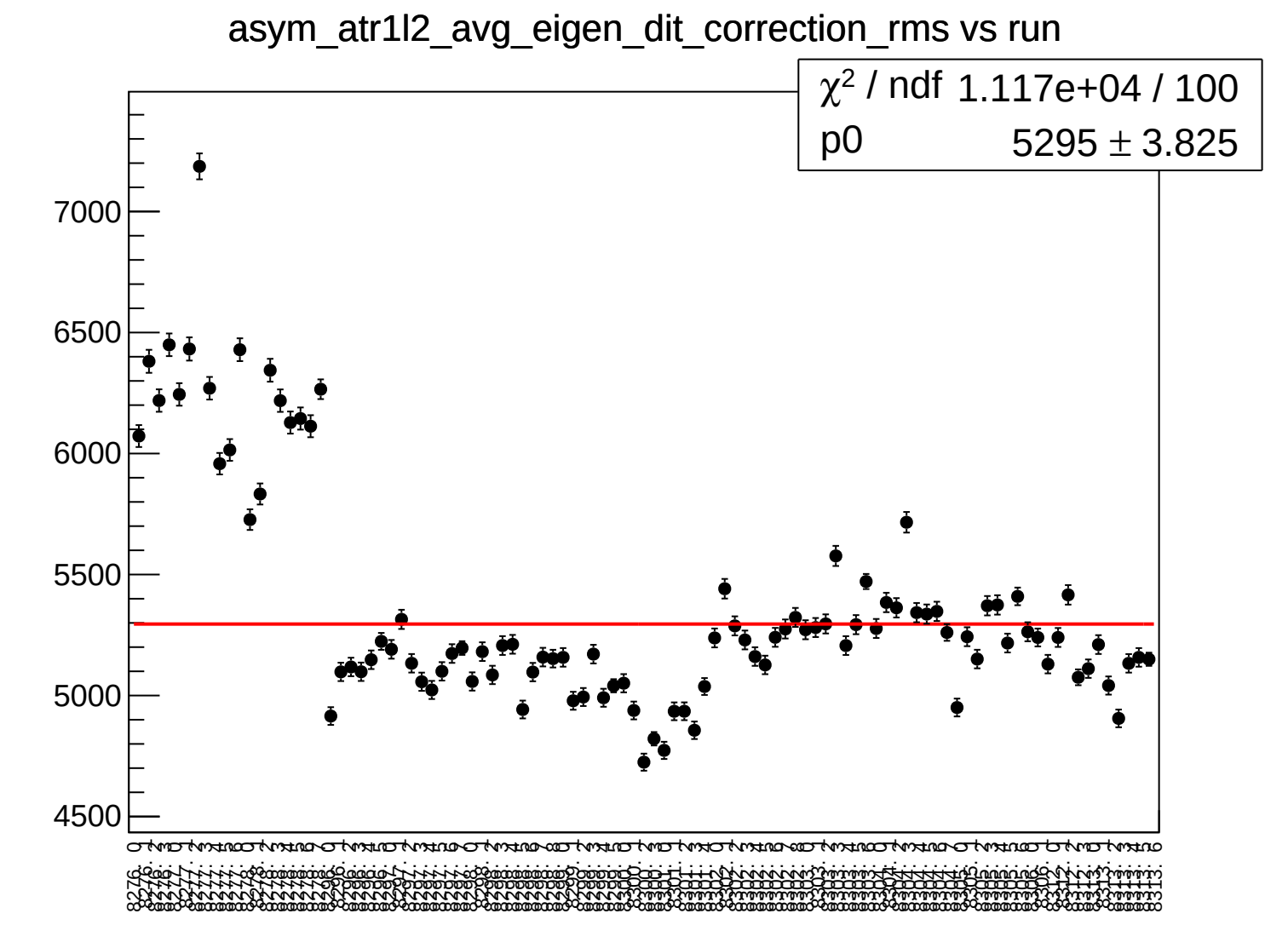
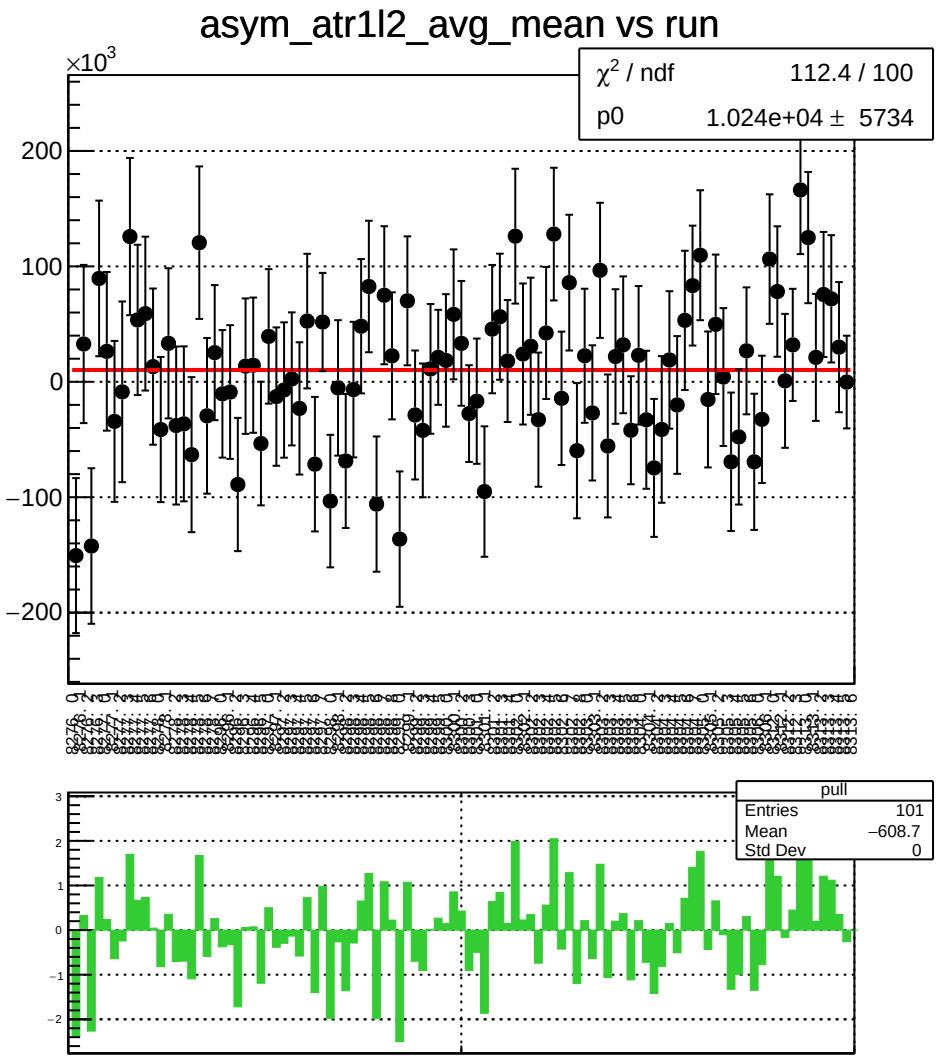
2
4
6
8

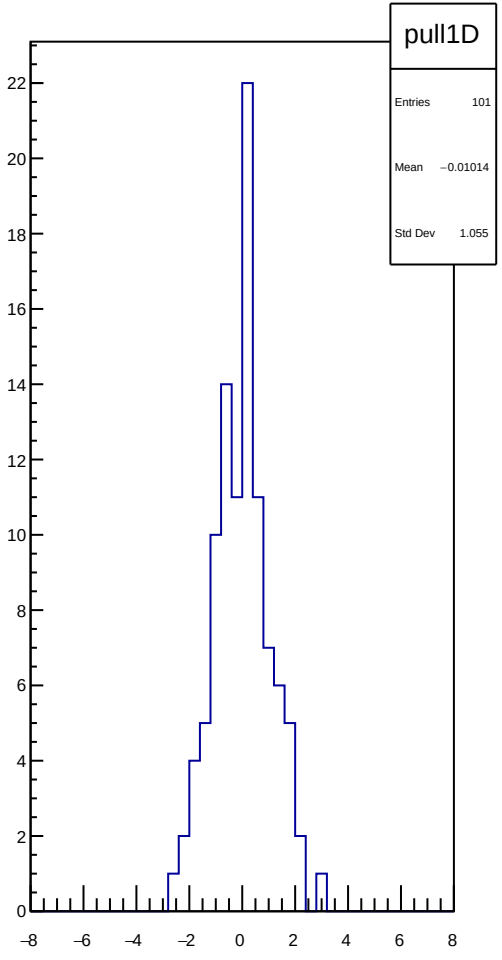

eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 310.1 / 100
p0 1793 ± 1.292
1900
1880
1860
1840
1820
1800
1780
1760
1740

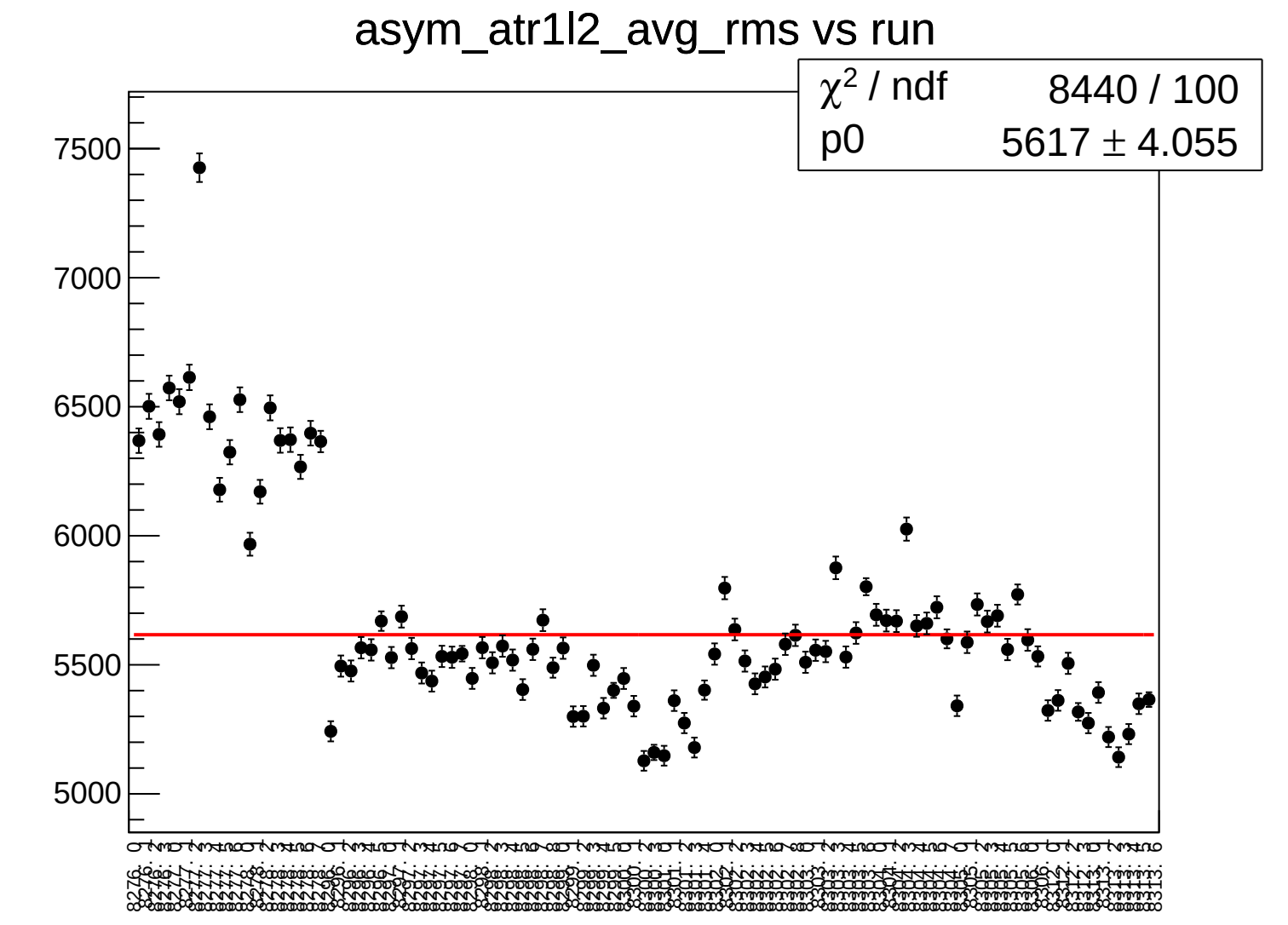

asym_atr1l2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 115.9 / 100
p0 −9464 ± 5410
200
100
0
−100
−200
pull
Entries 101
Mean −1283
Std Dev 0
2
1
0
−1
−2
−3

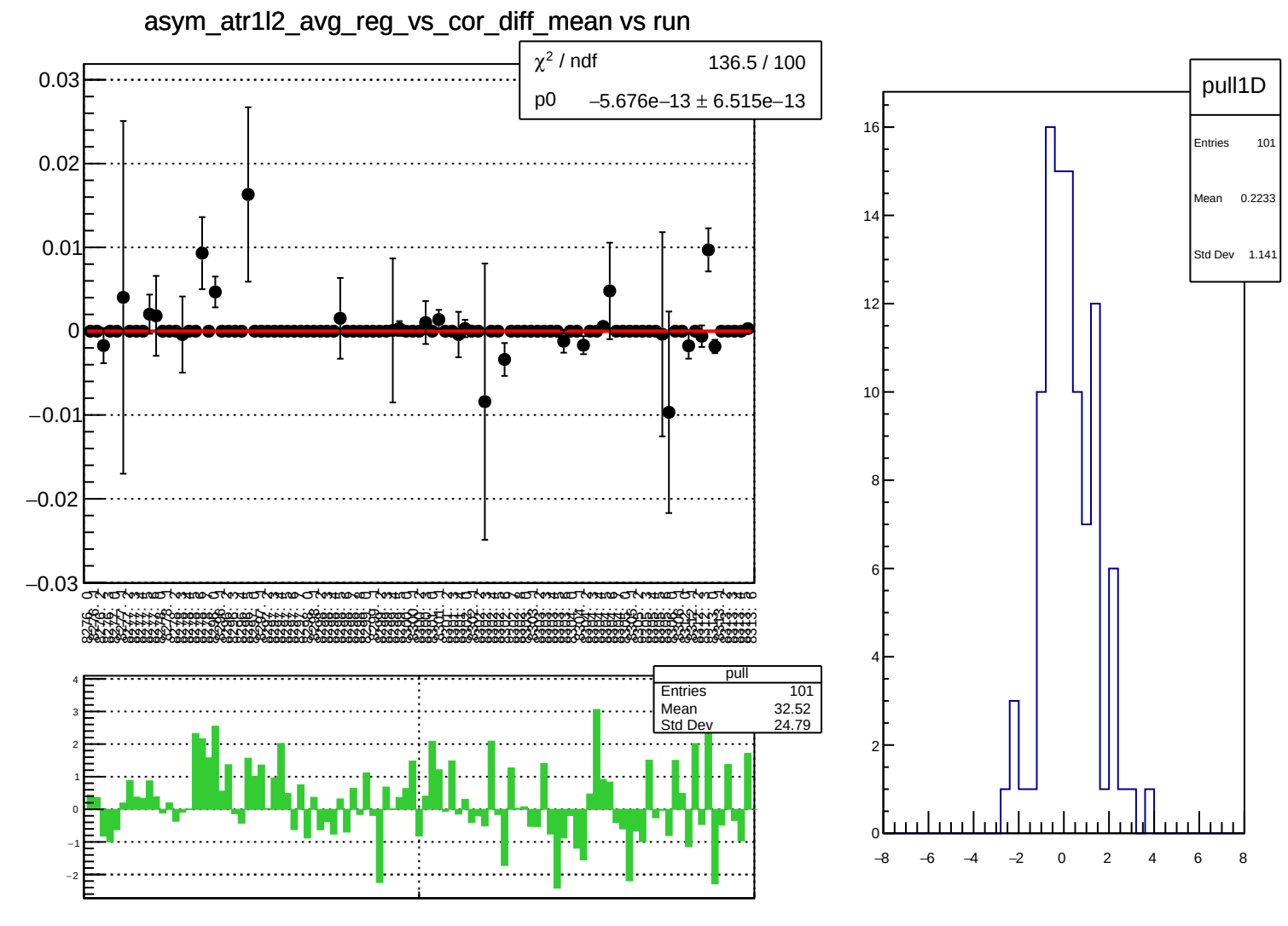

pull1D
Entries 101
Mean 0.00573
Std Dev 1.071
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

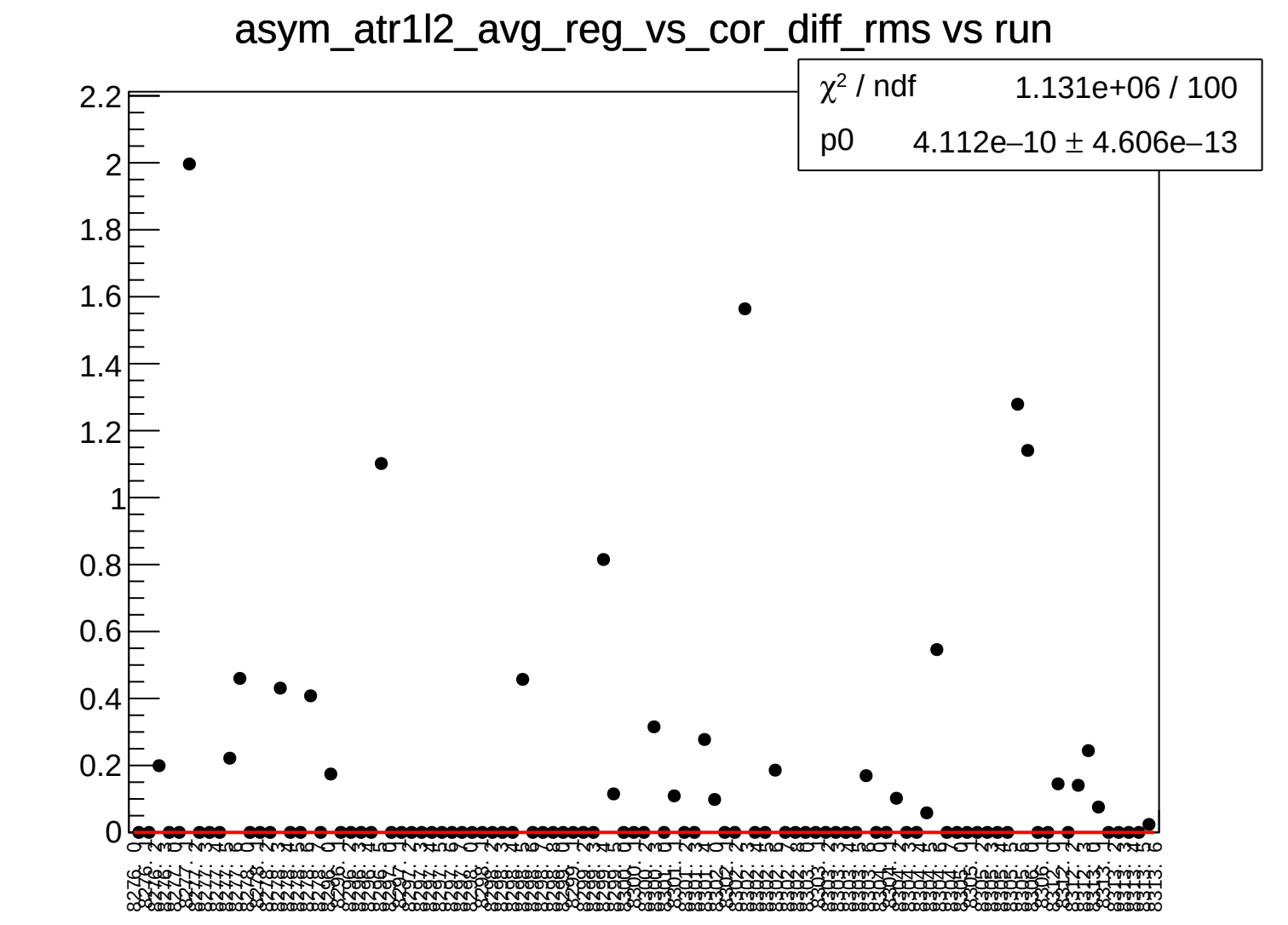

asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.117e+04 / 100
p0 5295 ± 3.825
7000
6500
6000
5500
5000
4500

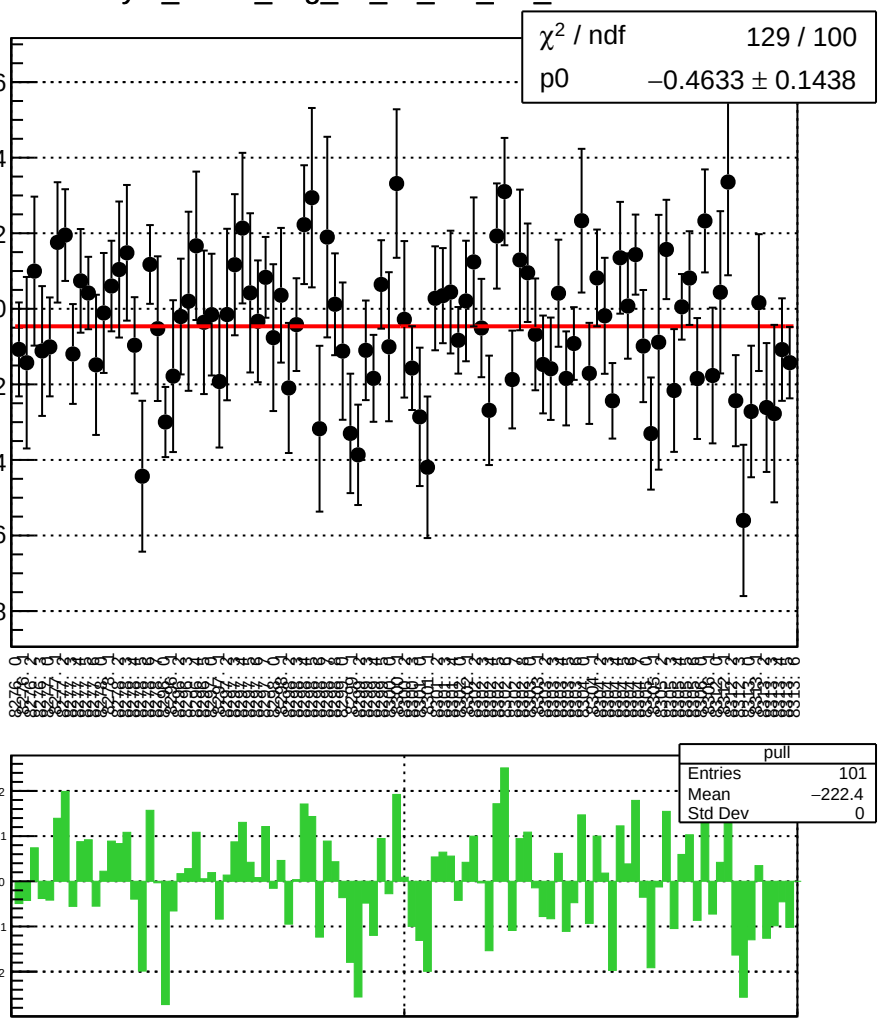

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 112.4 / 100
p0 1.024e+04 ± 5734
200
100
0
−100
−200
pull
Entries 101
Mean −608.7
Std Dev 0
3
2
1
0
−1
−2

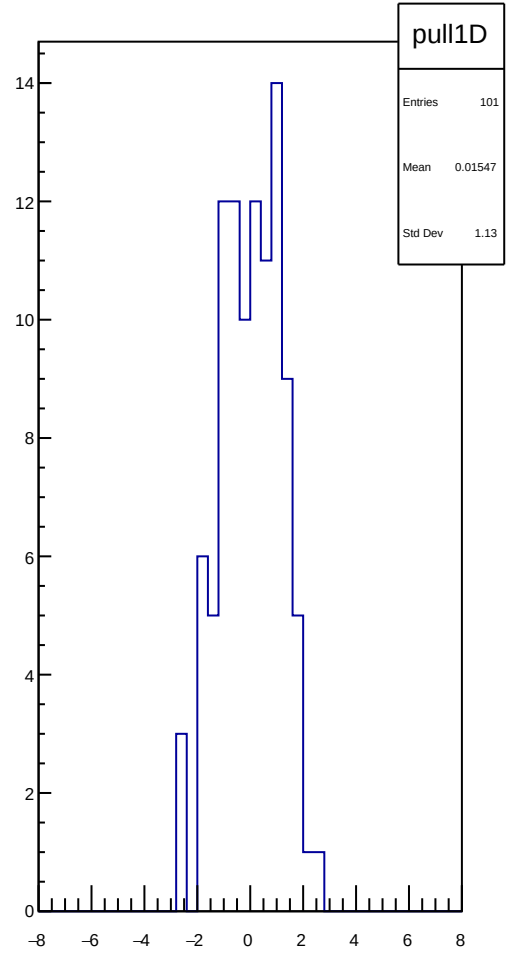

pull1D
Entries 101
Mean −0.01014
Std Dev 1.055
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

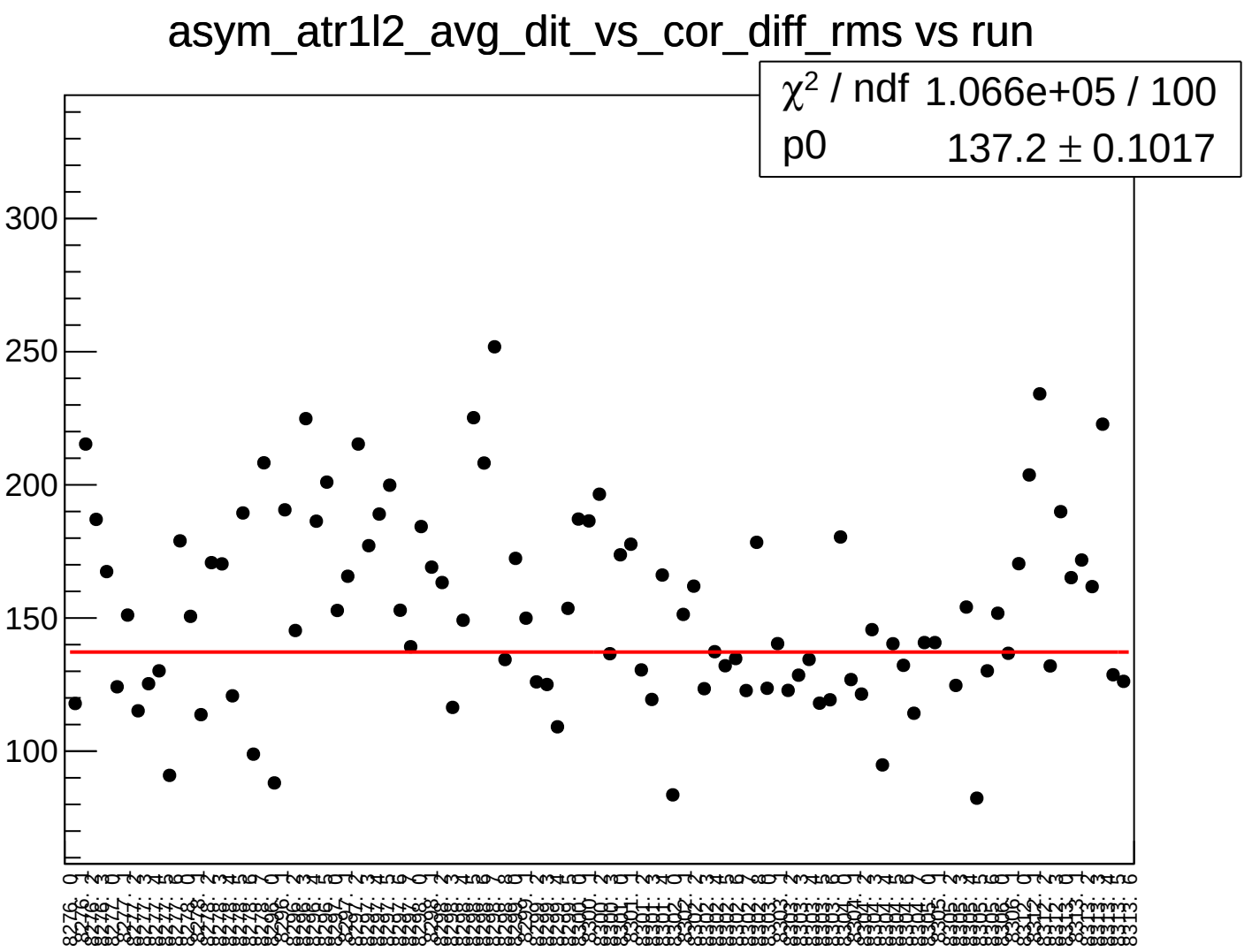

asym_atr1l2_avg_rms vs run
χ² / ndf 8440 / 100
p0 5617 ± 4.055
7500
7000
6500
6000
5500
5000


asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 136.5 / 100
p0 −5.676e−13 ± 6.515e−13
pull
Entries 101
Mean 32.52
Std Dev 24.79
pull1D
Entries 101
Mean 0.2233
Std Dev 1.141

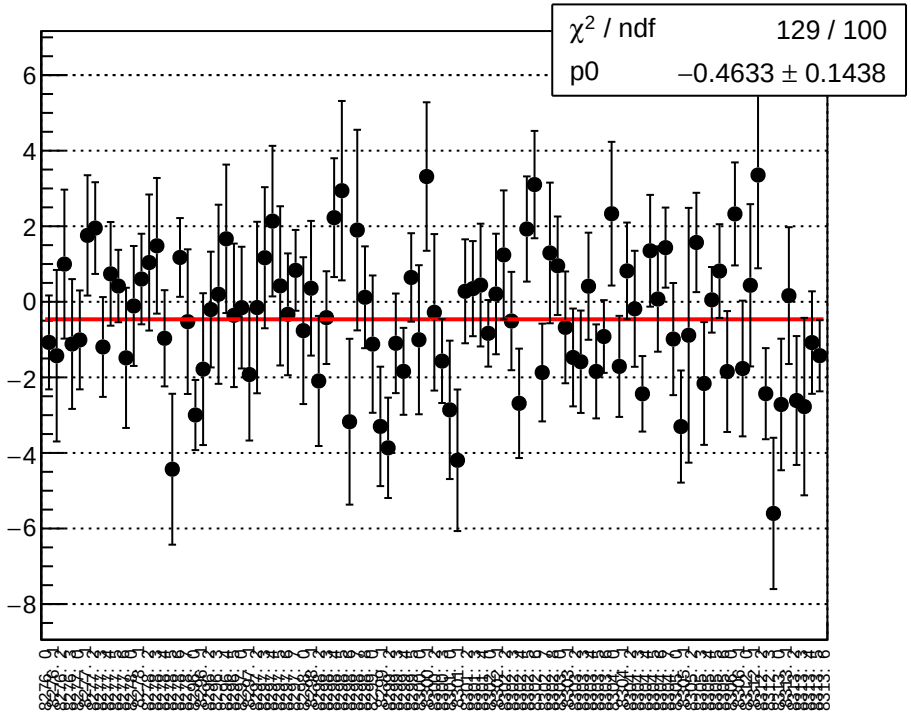

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.131e+06 / 100
p0 4.112e−10 ± 4.606e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

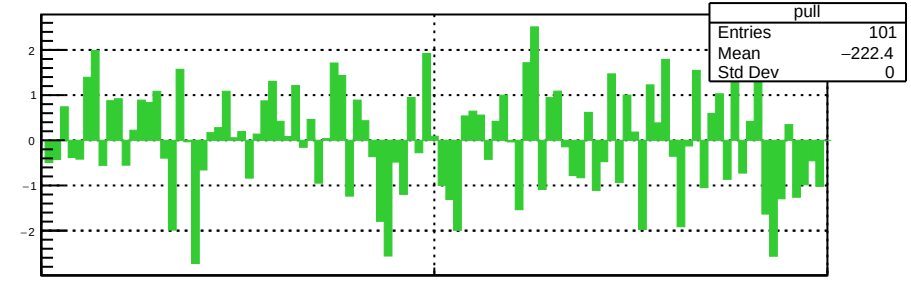

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 129 / 100
p0 −0.4633 ± 0.1438
pull
Entries 101
Mean −222.4
Std Dev 0

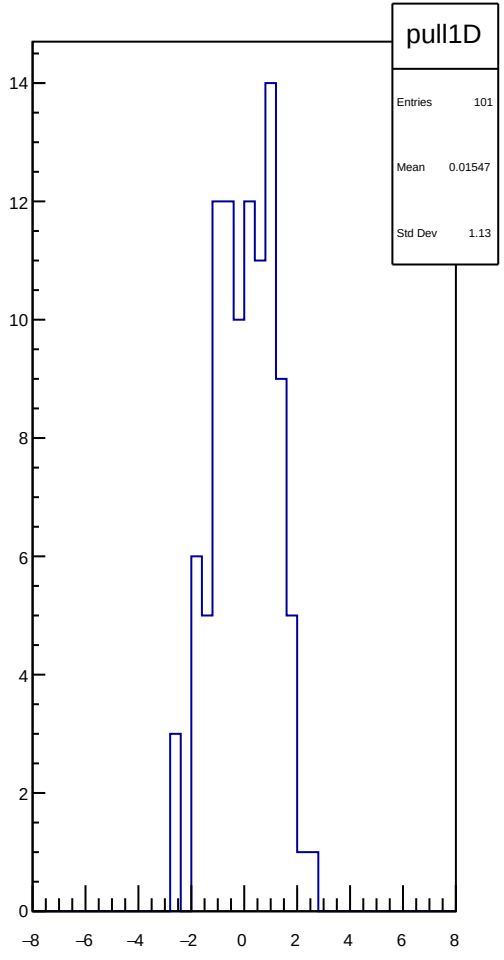

pull1D
Entries 101
Mean 0.01547
Std Dev 1.13

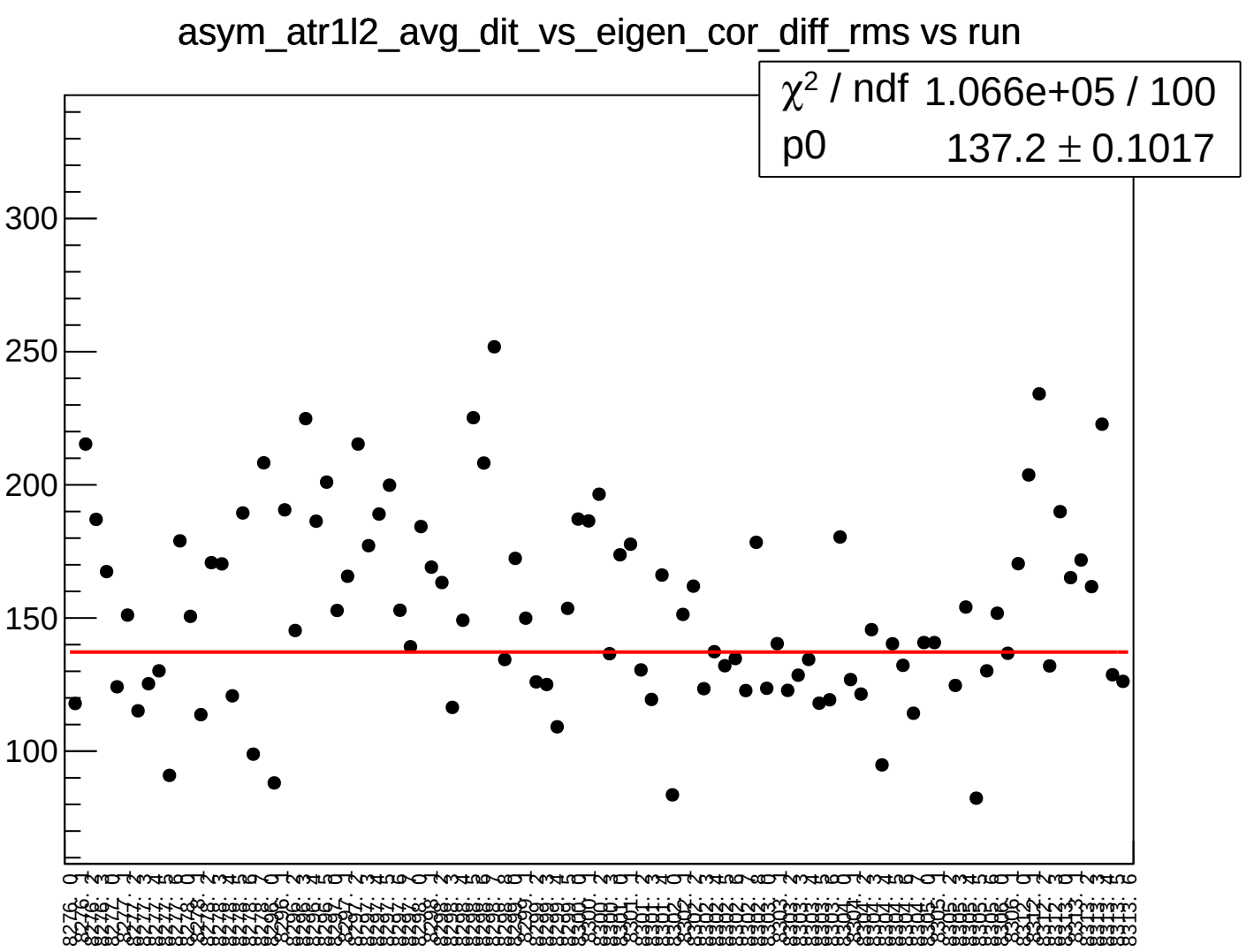

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.066e+05 / 100
p0 137.2 ± 0.1017
300
250
200
150
100

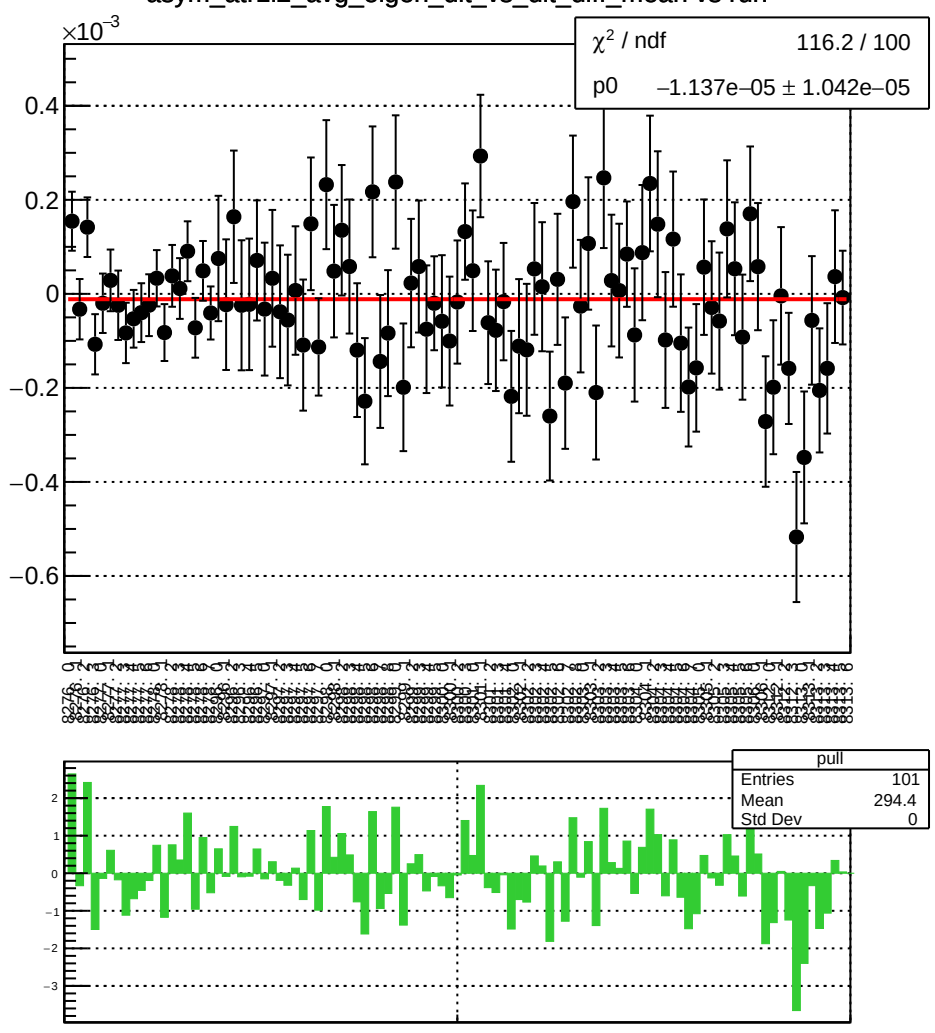
asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run

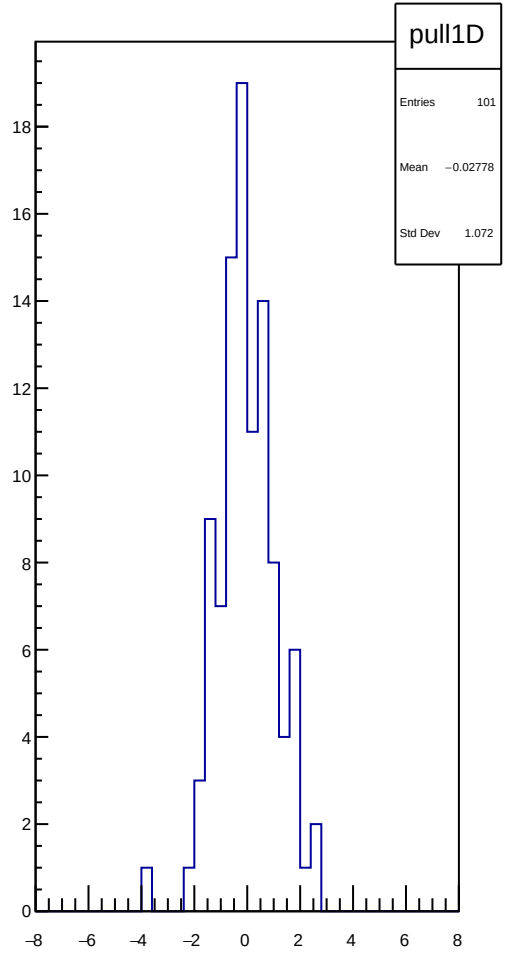


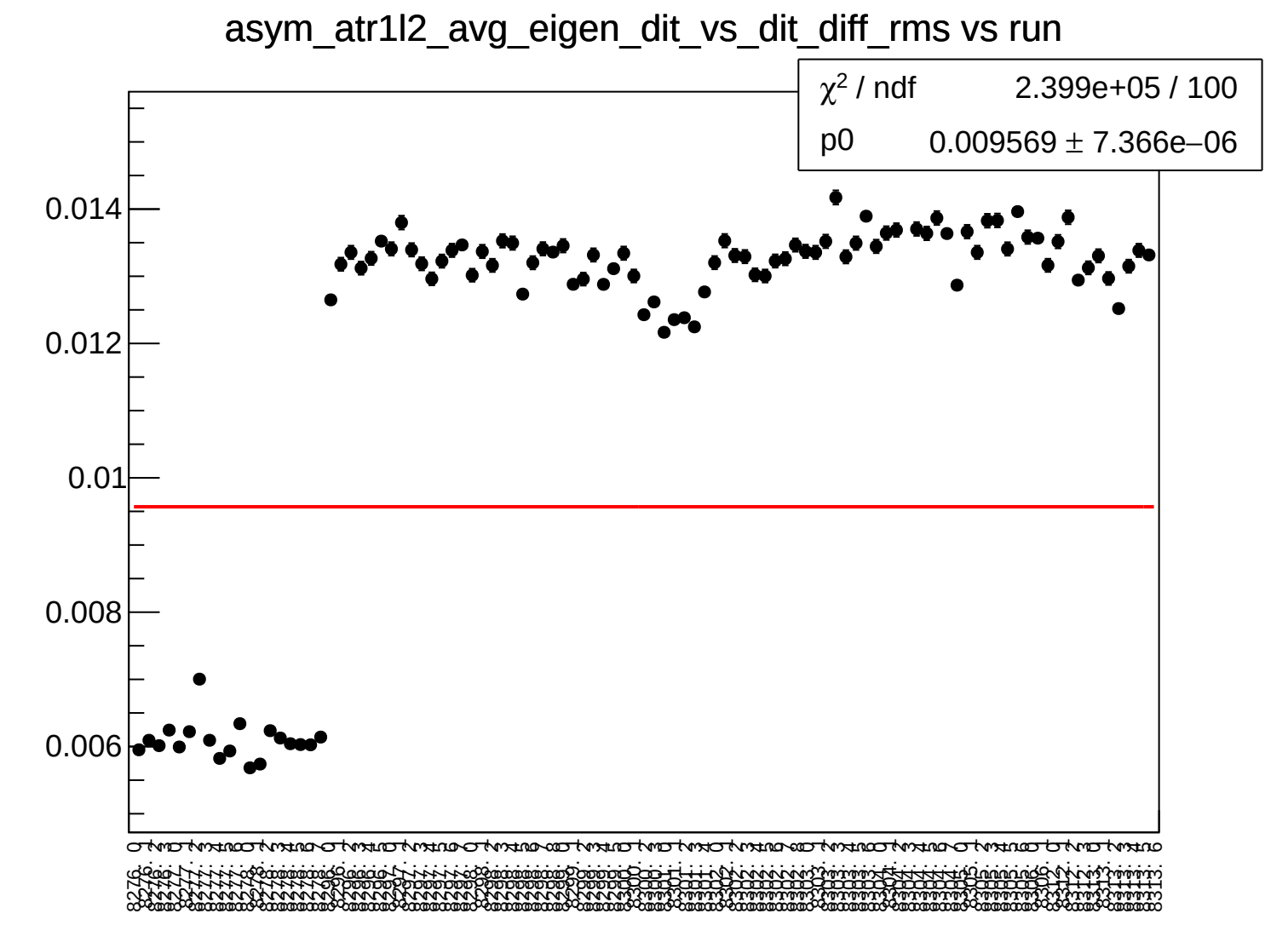


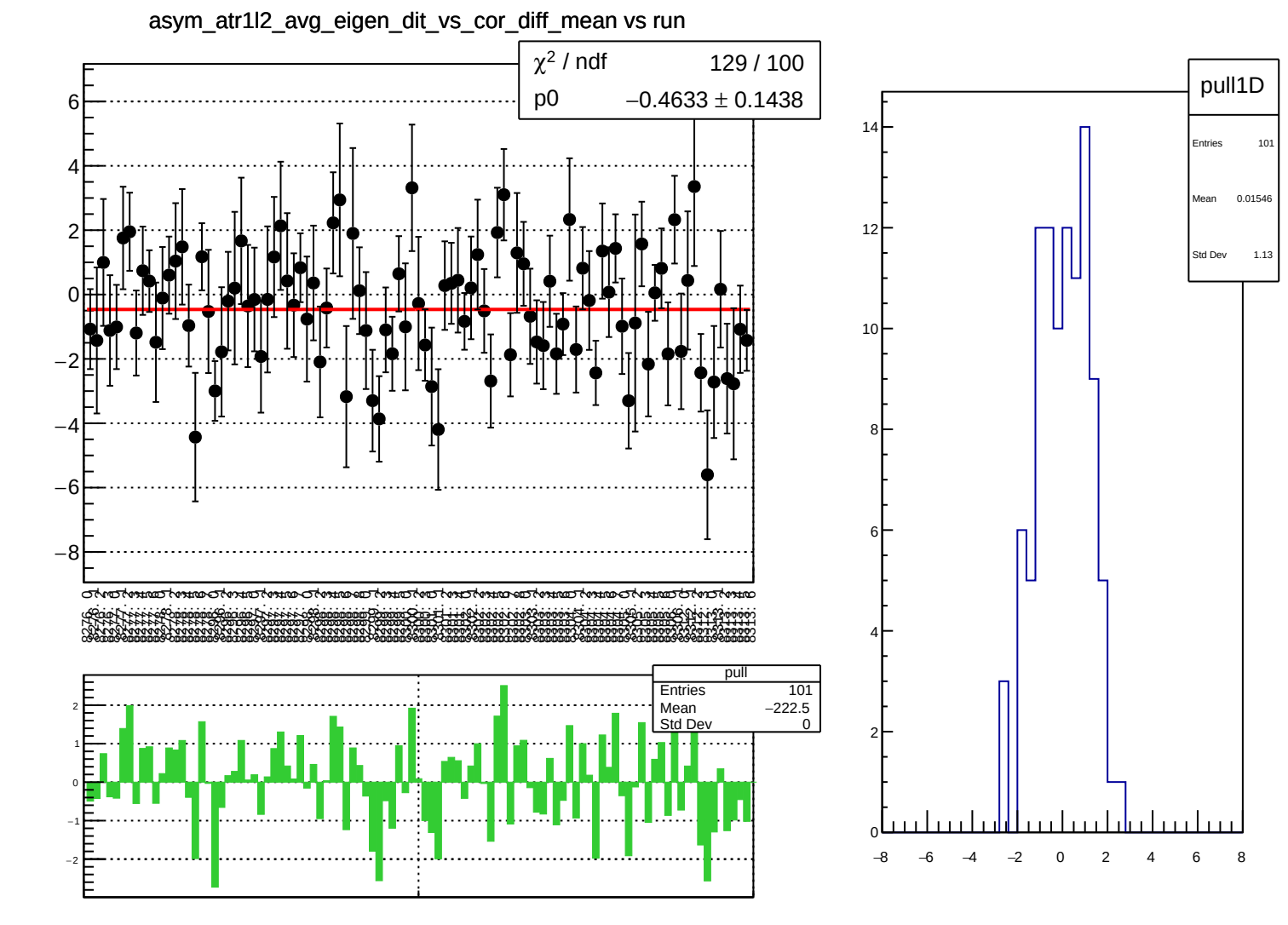


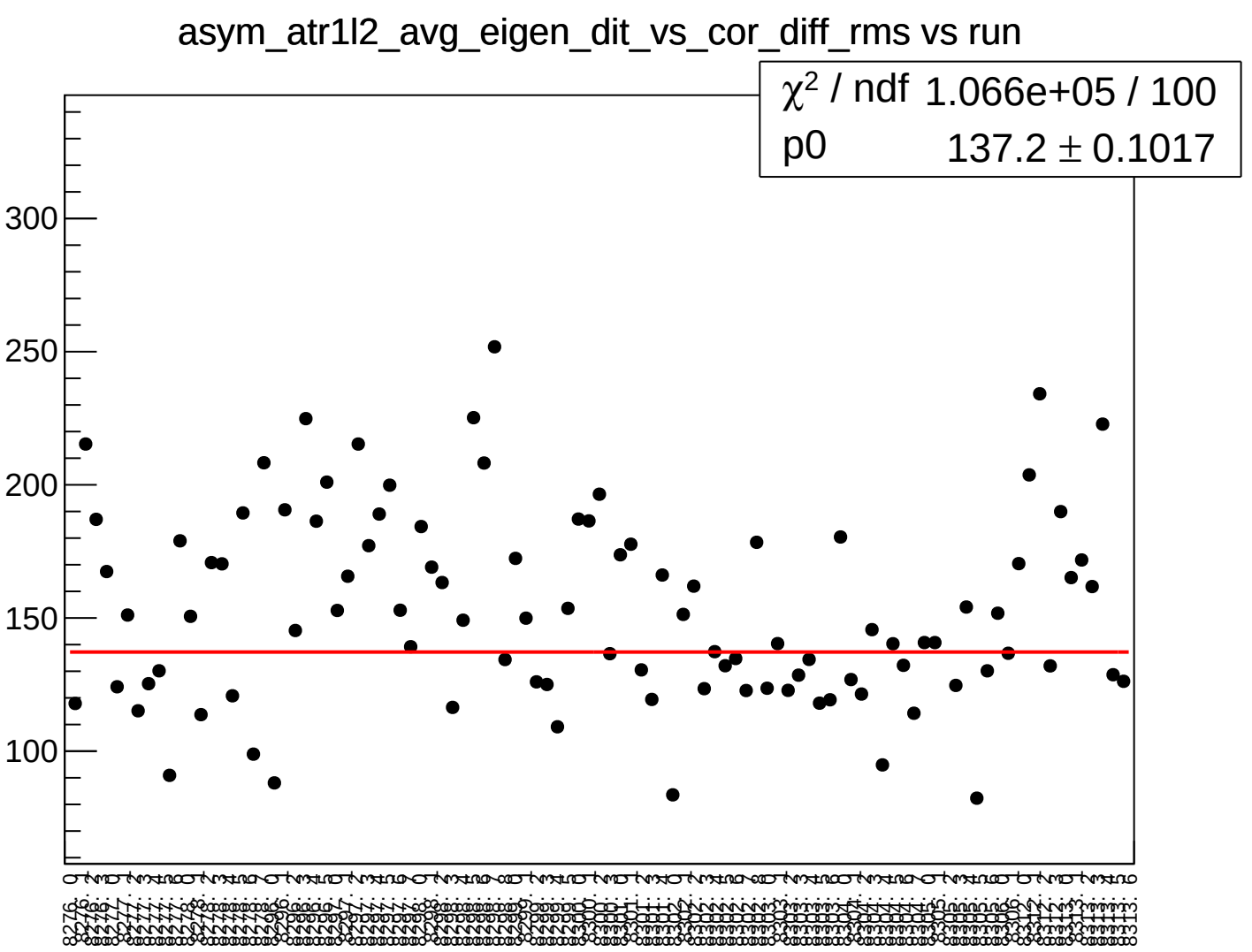

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.066e+05 / 100
p0 137.2 ± 0.1017
300
250
200
150
100

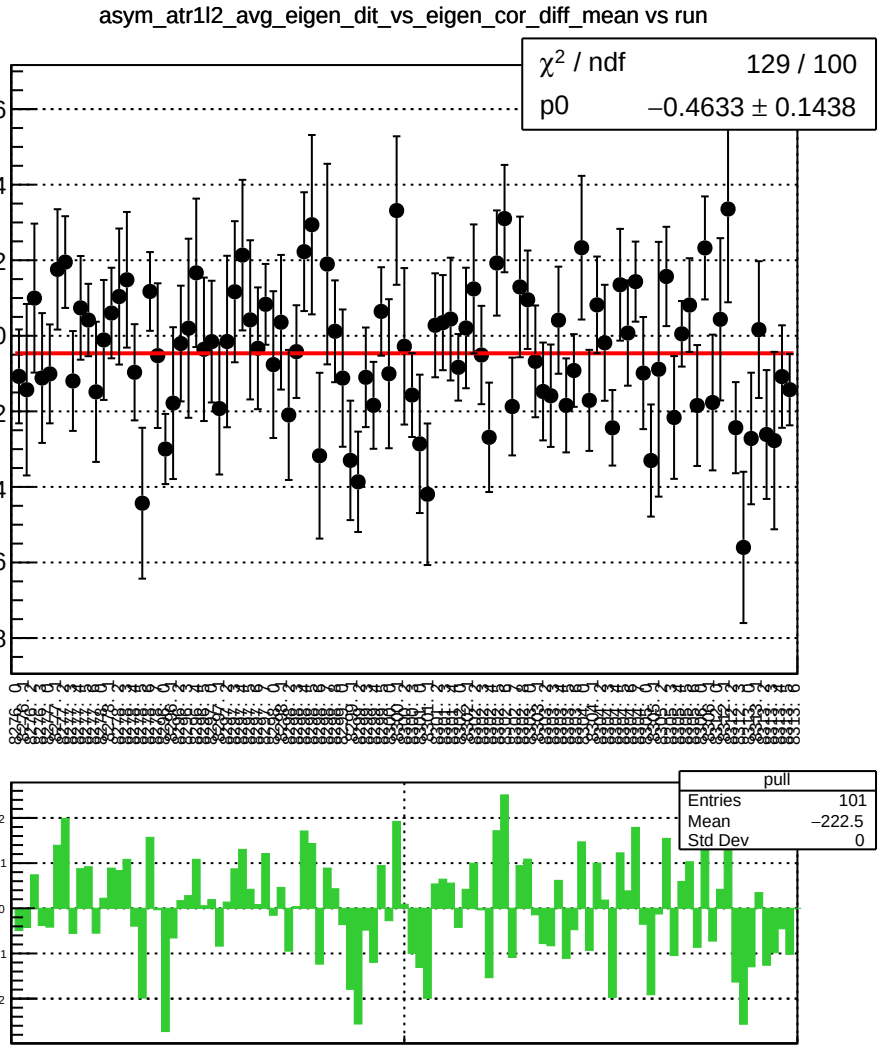

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 116.2 / 100
p0 −1.137e−05 ± 1.042e−05
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 101
Mean 294.4
Std Dev 0
2
1
0
−1
−2
−3

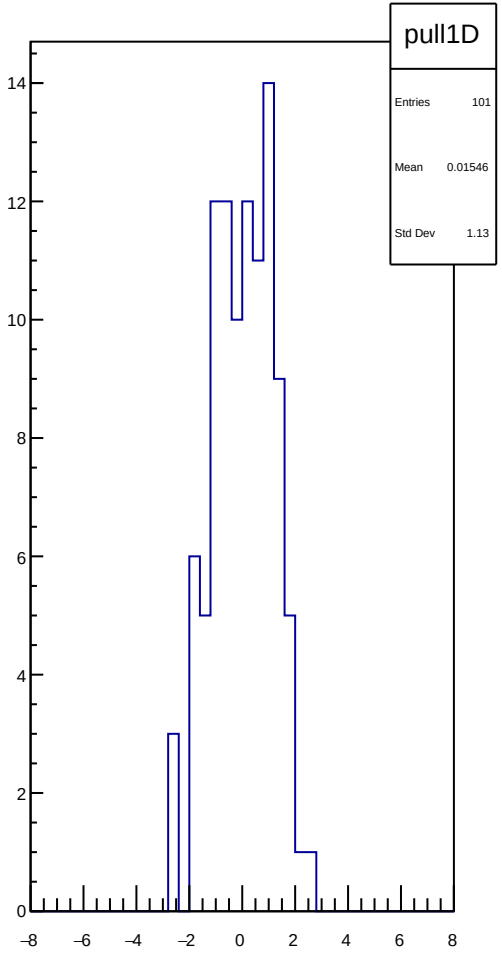

pull1D
Entries 101
Mean −0.02778
Std Dev 1.072
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

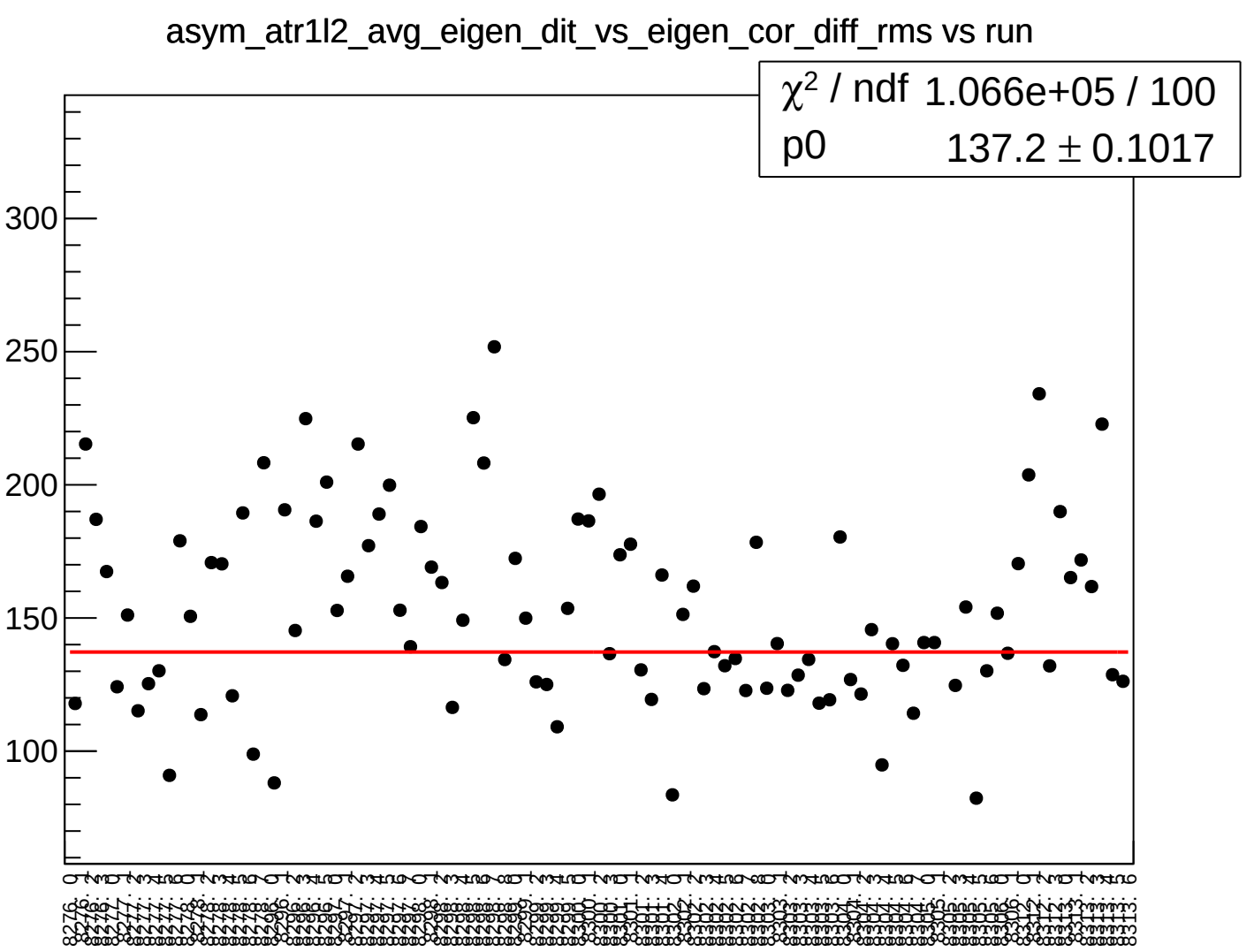

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.399e+05 / 100
p0 0.009569 ± 7.366e−06
0.014
0.012
0.01
0.008
0.006

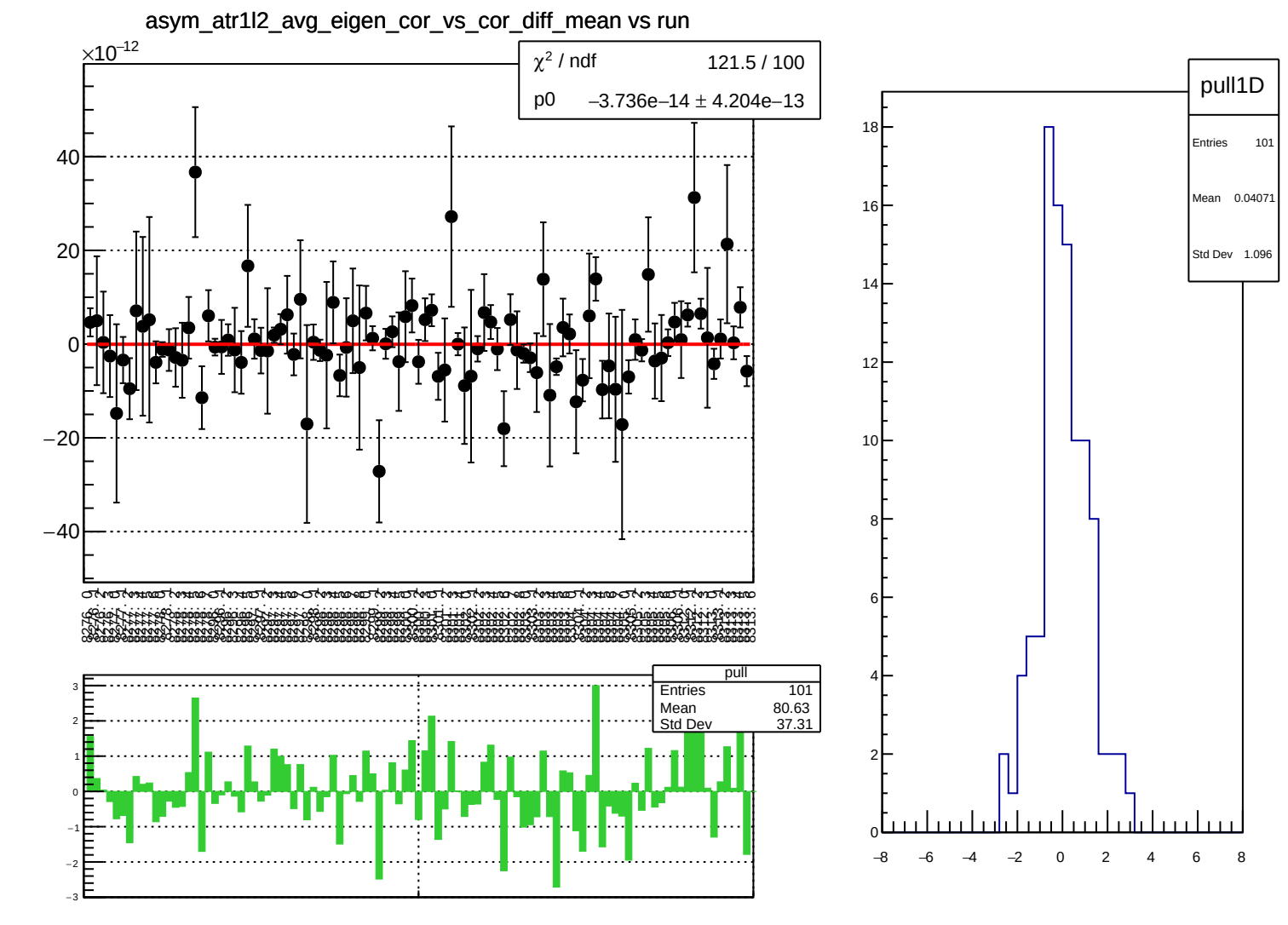

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 129 / 100
p0 −0.4633 ± 0.1438
pull
Entries 101
Mean −222.5
Std Dev 0
pull1D
Entries 101
Mean 0.01546
Std Dev 1.13

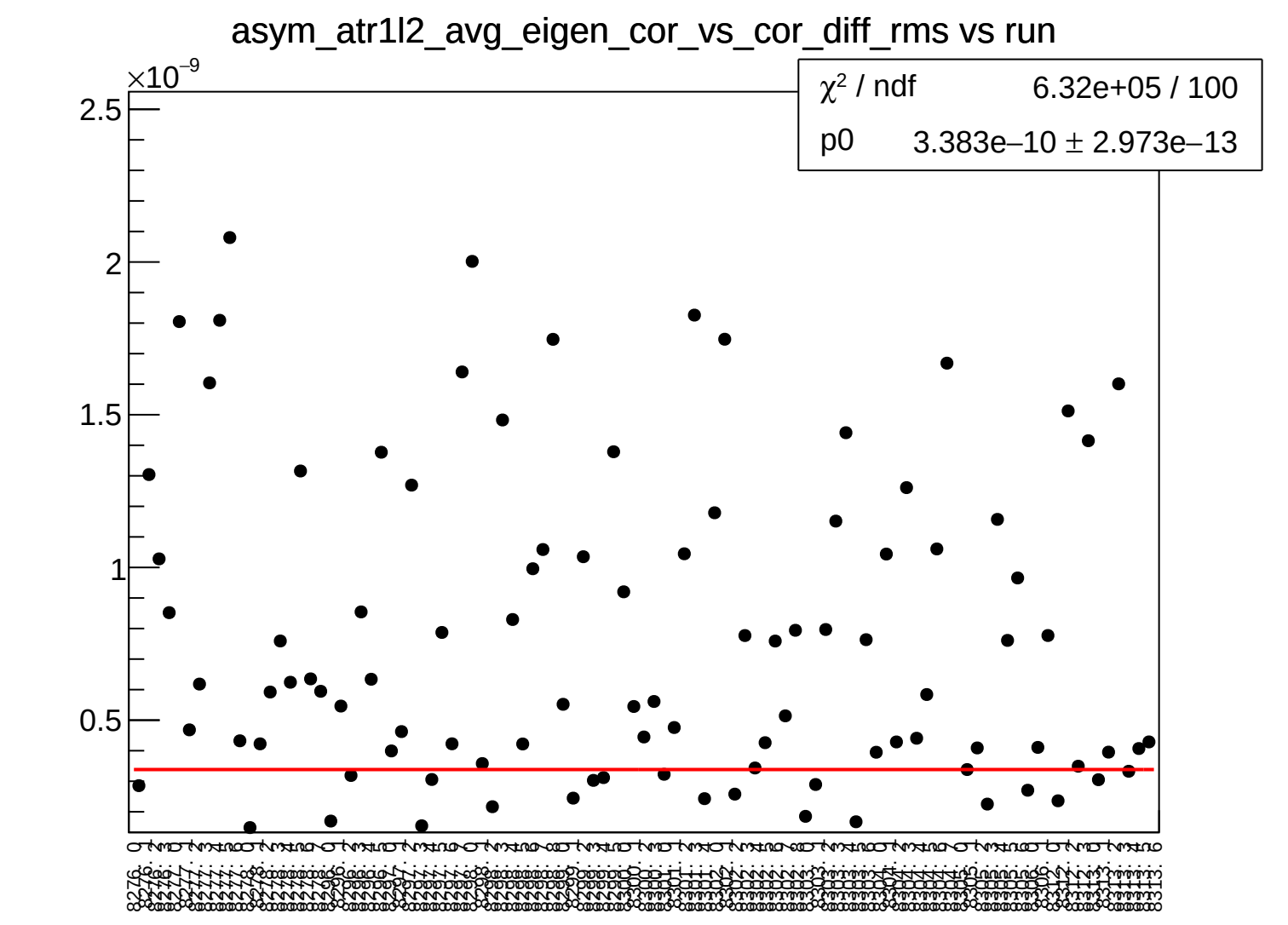

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.066e+05 / 100
p0 137.2 ± 0.1017
300
250
200
150
100

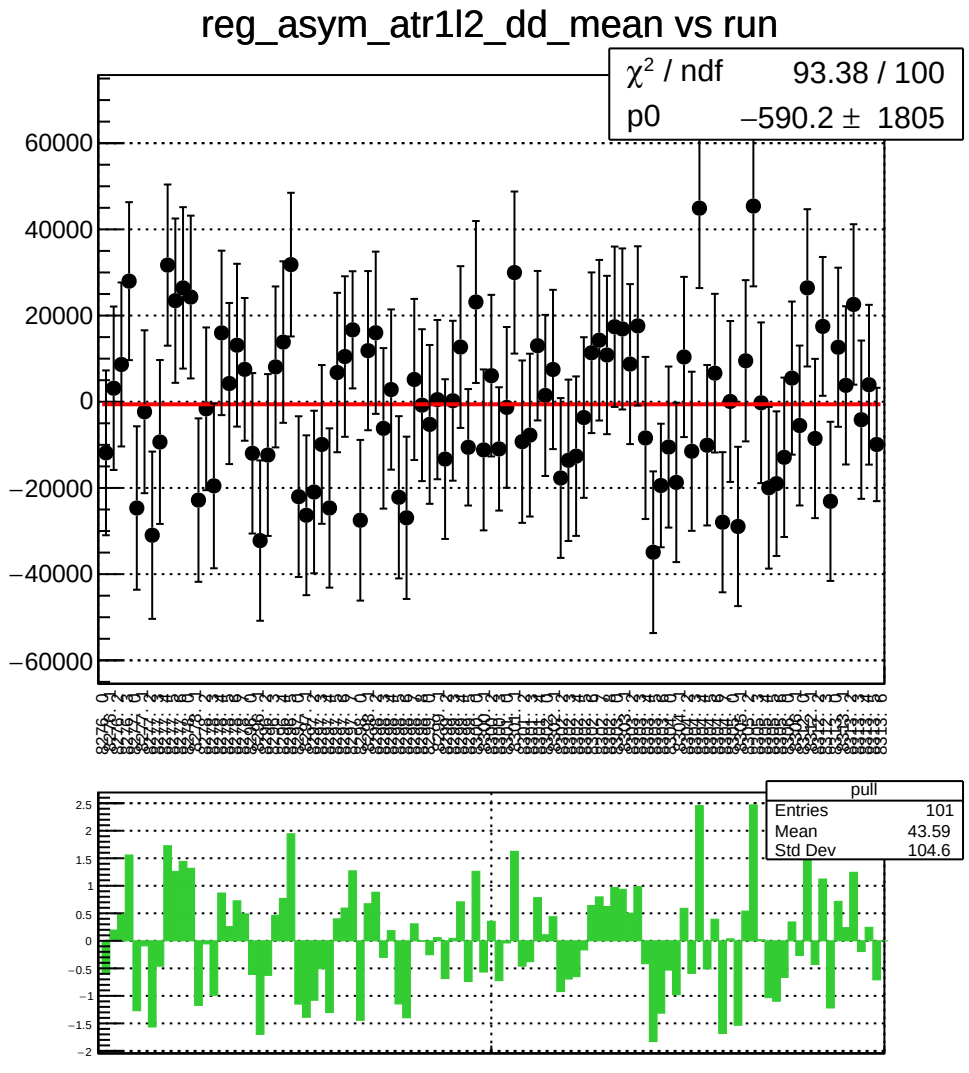

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 129 / 100
p0 −0.4633 ± 0.1438
pull
Entries 101
Mean −222.5
Std Dev 0

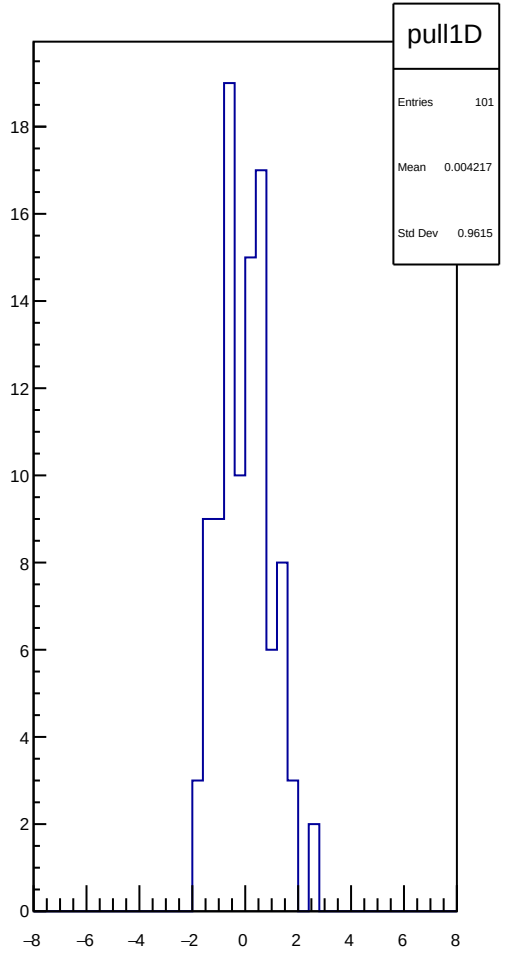

pull1D
Entries 101
Mean 0.01546
Std Dev 1.13

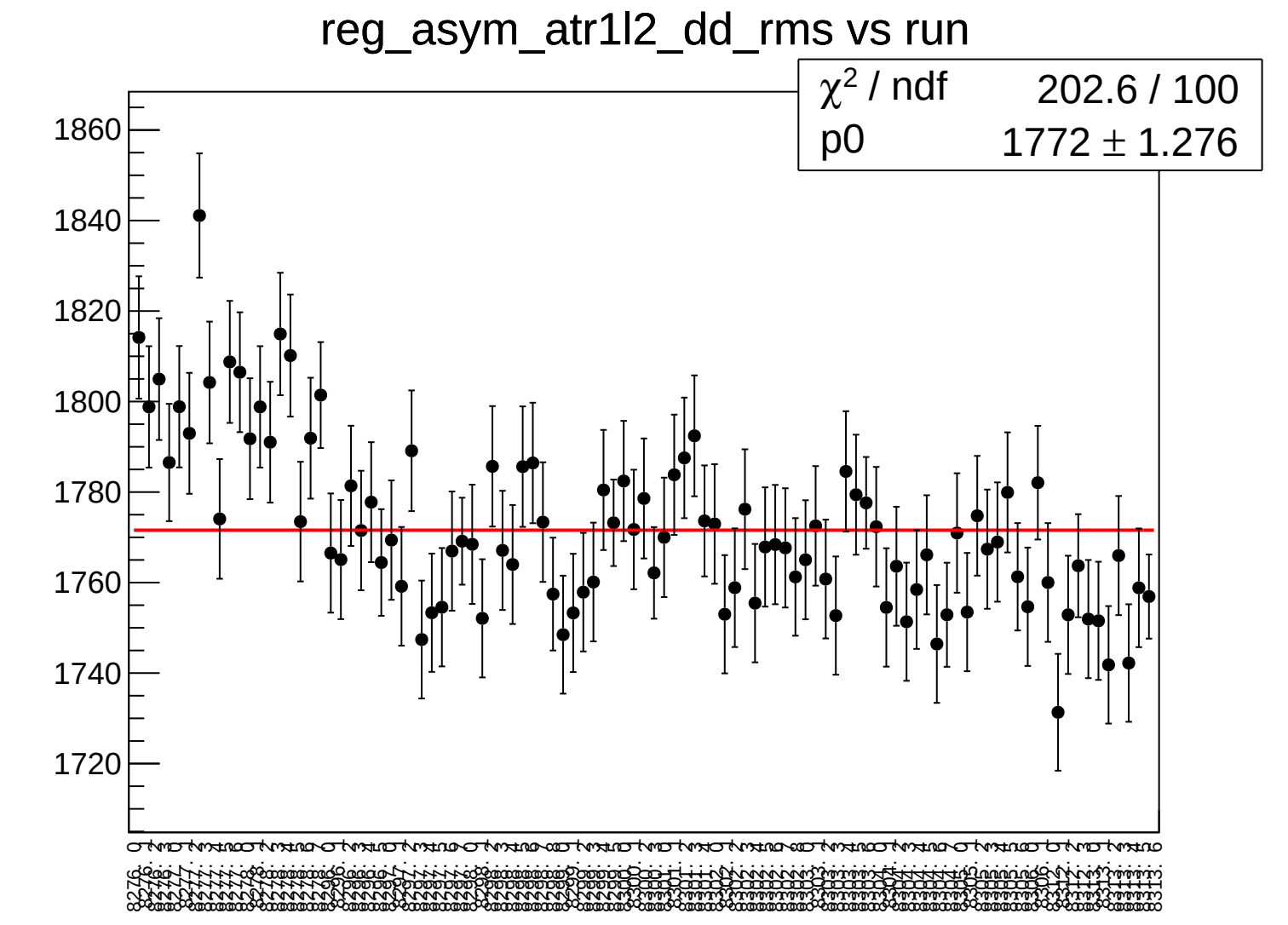

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.066e+05 / 100
p0 137.2 ± 0.1017
300
250
200
150
100

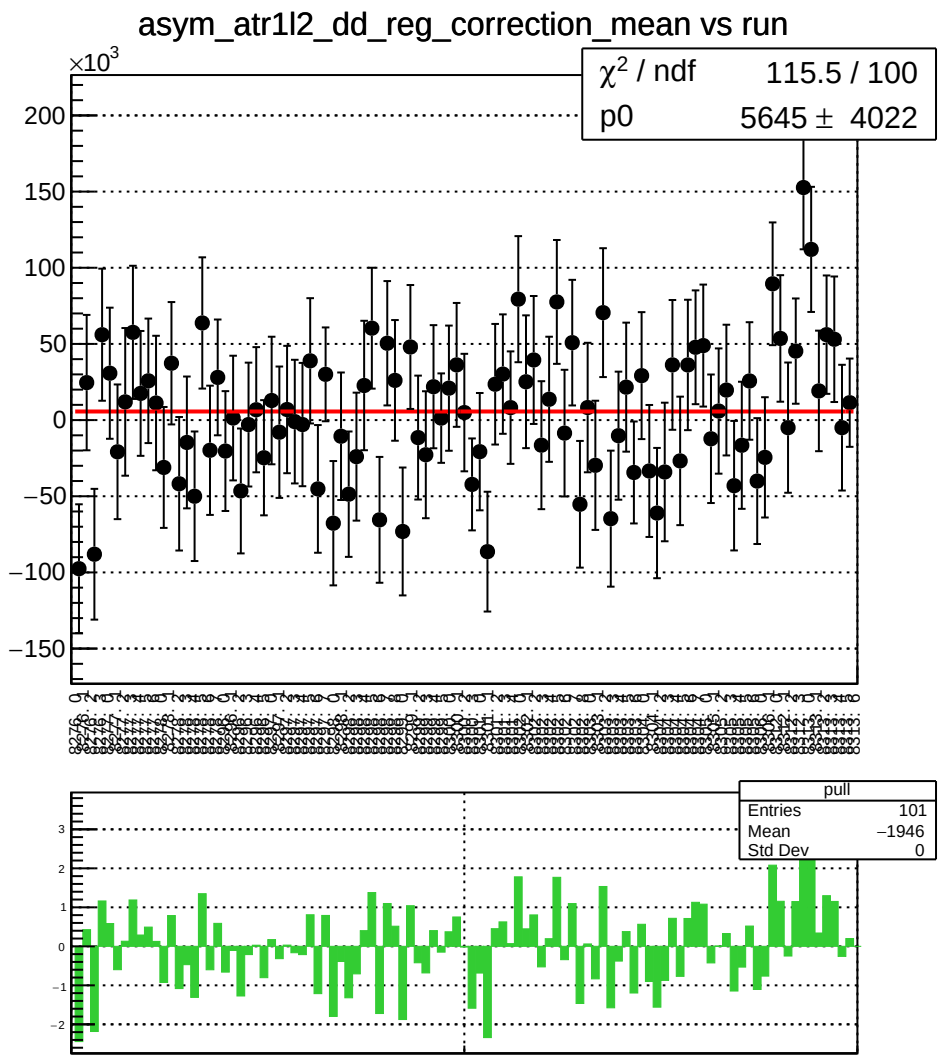

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 121.5 / 100
p0 −3.736e−14 ± 4.204e−13
40
20
0
−20
−40
pull
Entries 101
Mean 80.63
Std Dev 37.31
3
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.04071
Std Dev 1.096
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

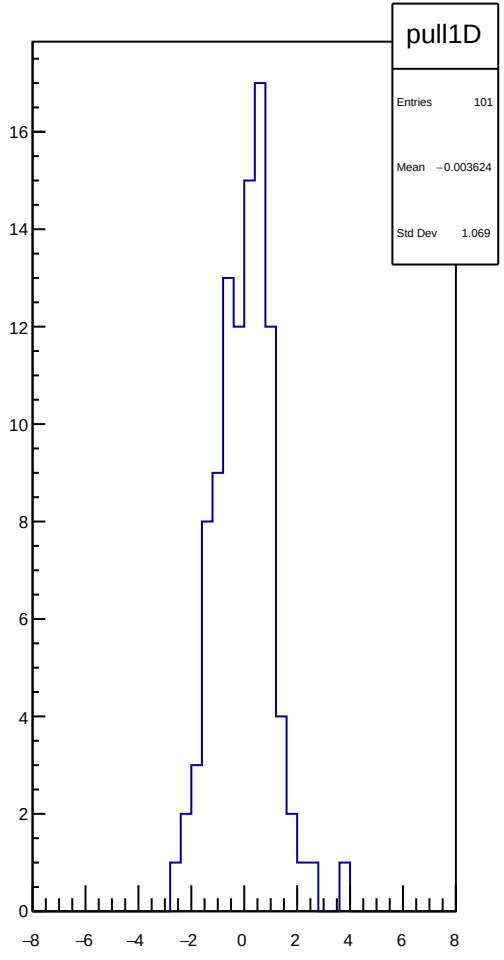

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
2.5
2
1.5
1
0.5
χ² / ndf 6.32e+05 / 100
p0 3.383e−10 ± 2.973e−13

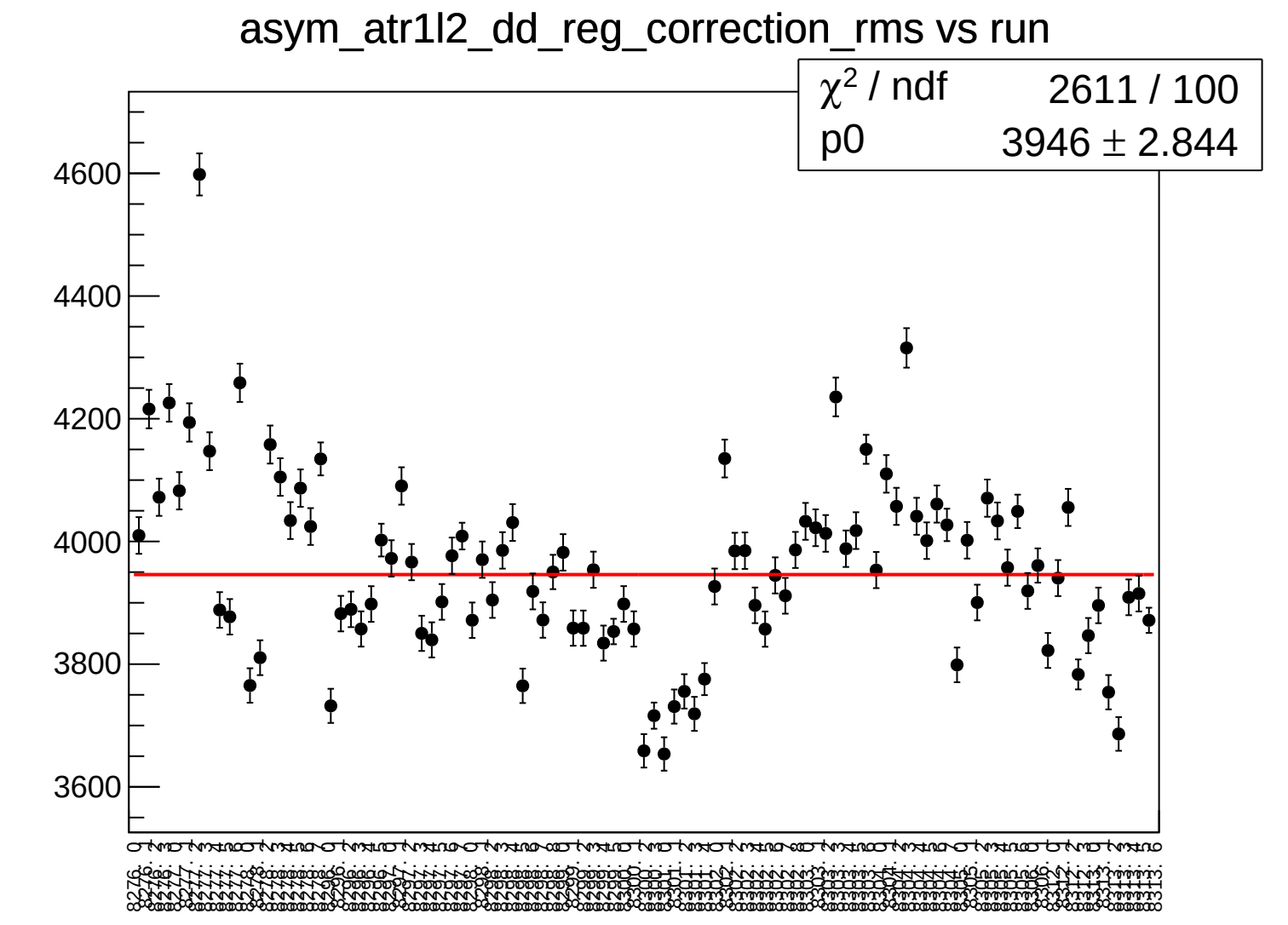

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 93.38 / 100
p0 −590.2 ± 1805
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean 43.59
Std Dev 104.6
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

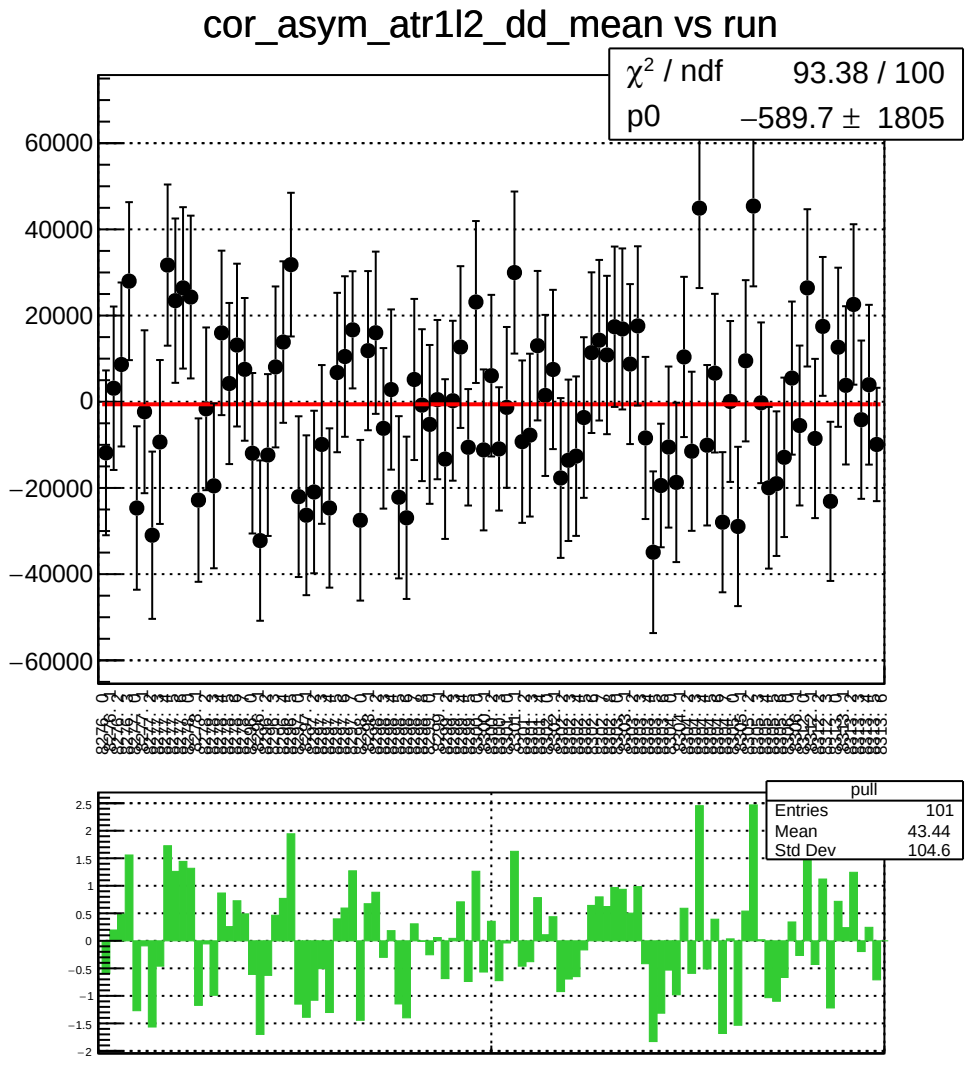

pull1D
Entries 101
Mean 0.004217
Std Dev 0.9615
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

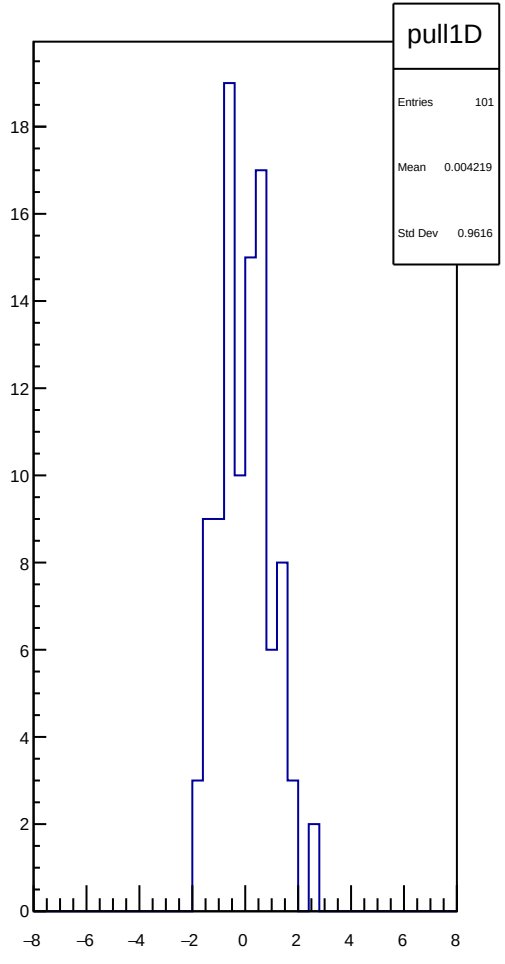

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 202.6 / 100
p0 1772 ± 1.276
1860
1840
1820
1800
1780
1760
1740
1720

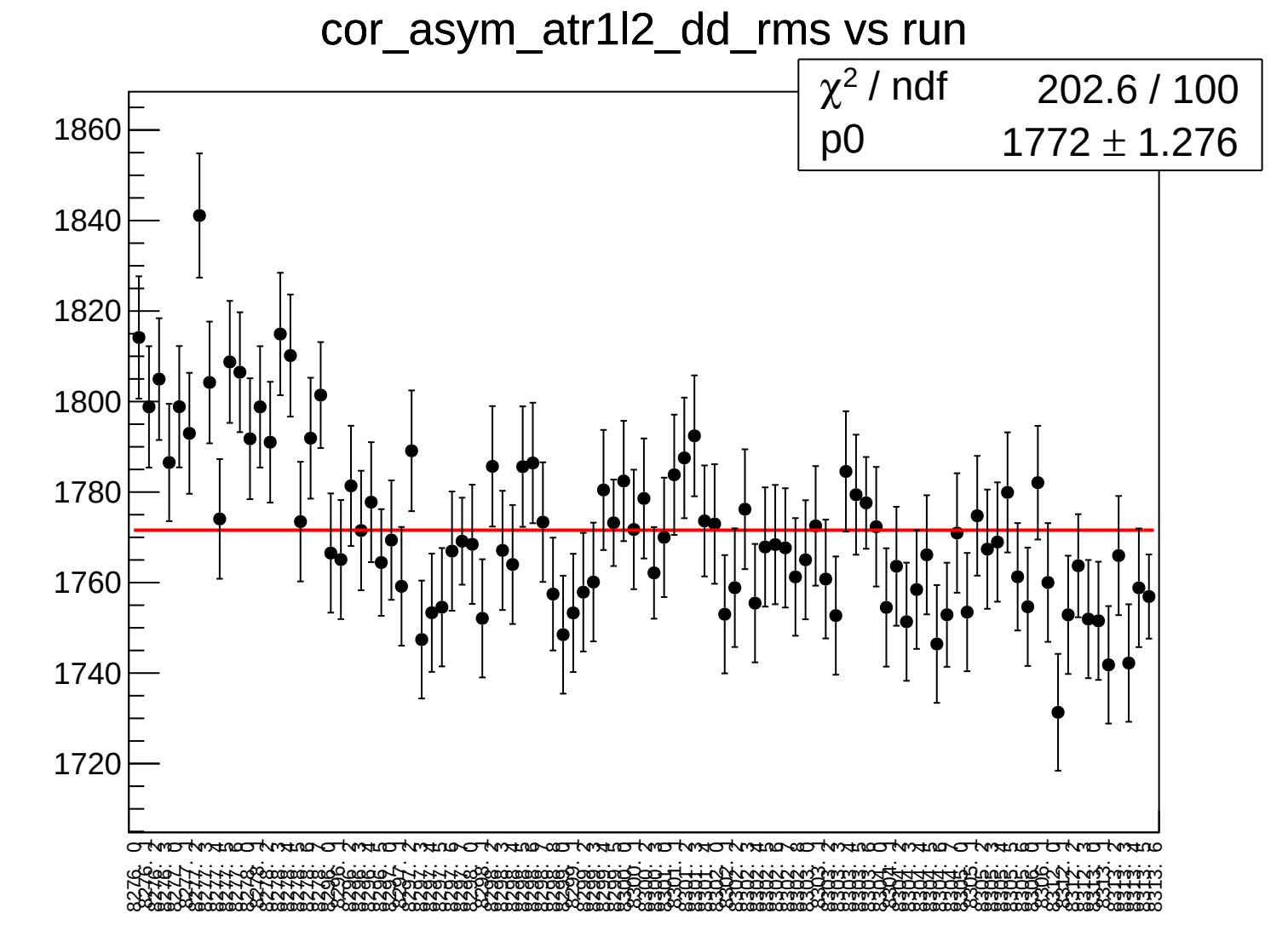

asym_atr1l2_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 115.5 / 100
p0 5645 ± 4022
200
150
100
50
0
−50
−100
−150
pull
Entries 101
Mean −1946
Std Dev 0
3
2
1
0
−1
−2

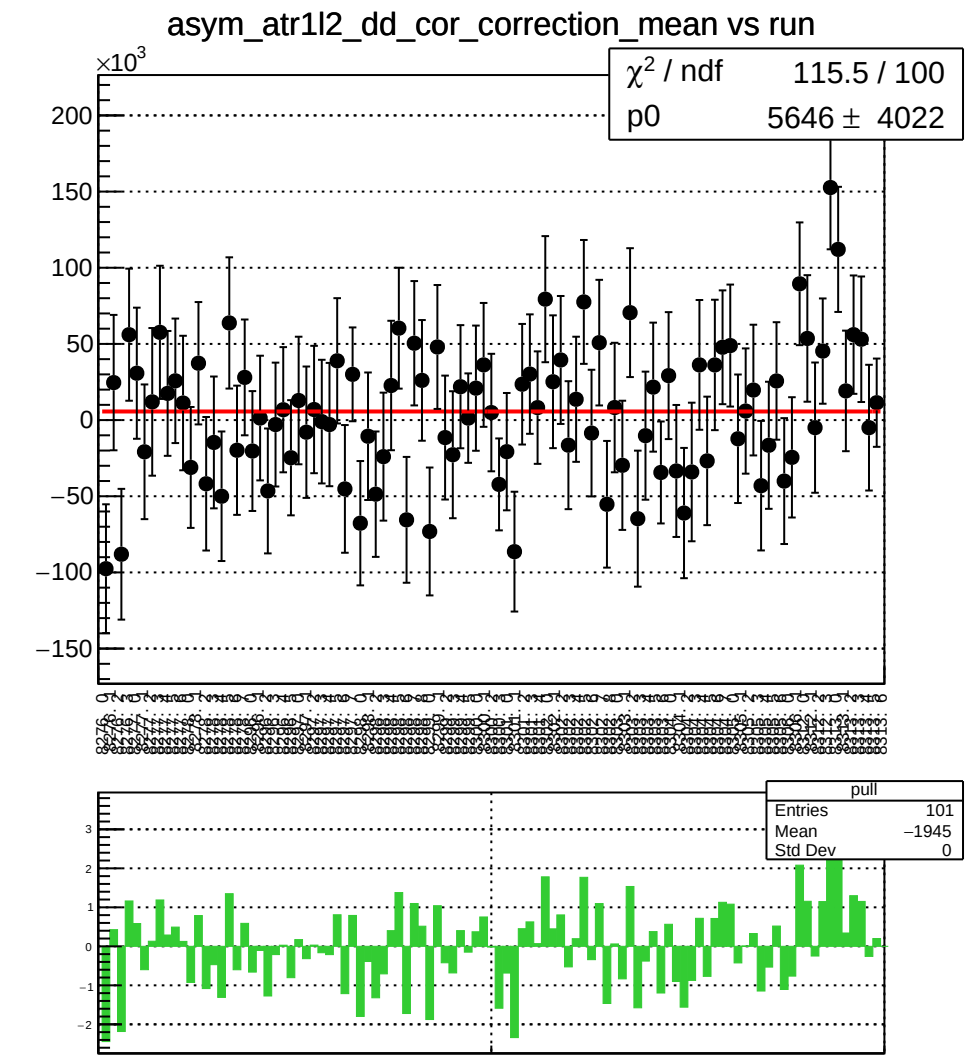

pull1D
Entries 101
Mean −0.003624
Std Dev 1.069
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

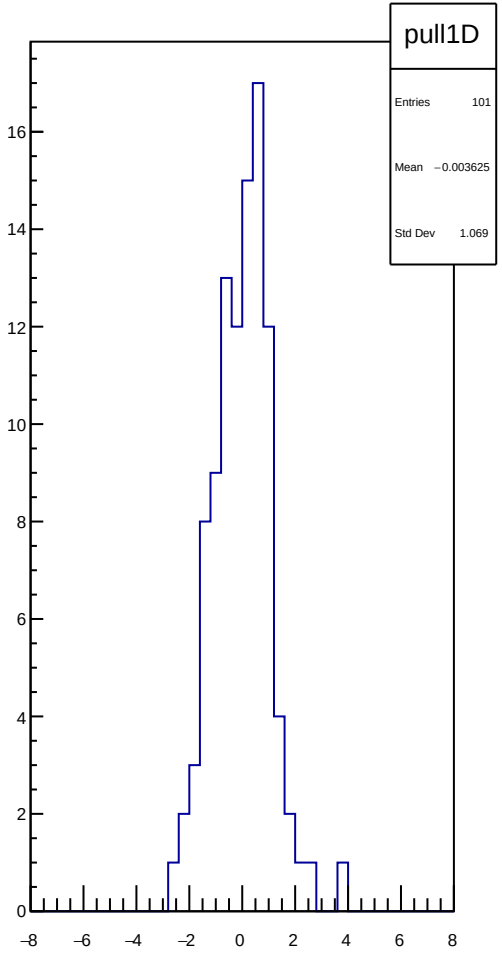

asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 2611 / 100
p0 3946 ± 2.844
4600
4400
4200
4000
3800
3600

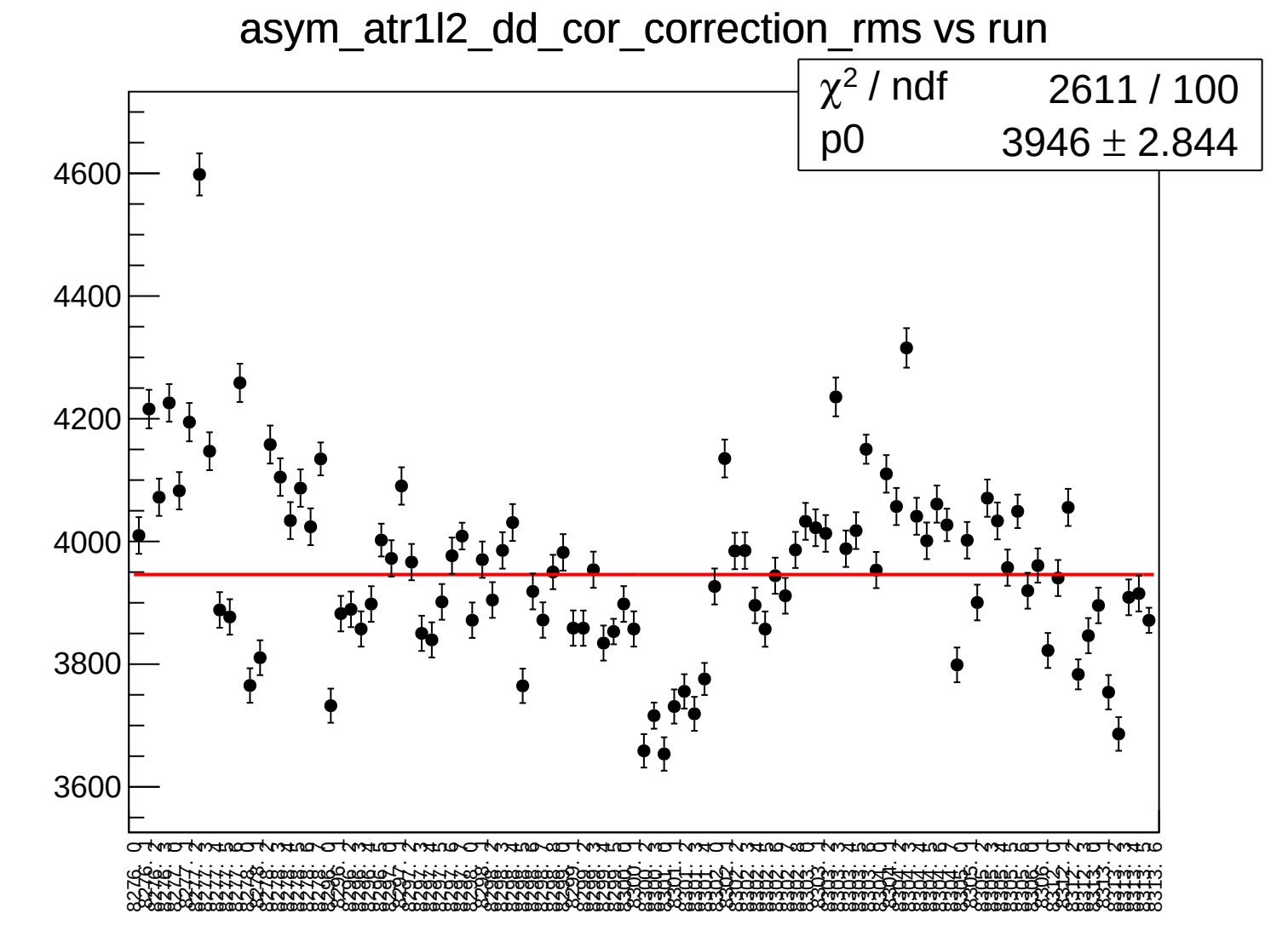

cor_asym_atr1l2_dd_mean vs run
χ² / ndf 93.38 / 100
p0 −589.7 ± 1805
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean 43.44
Std Dev 104.6
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

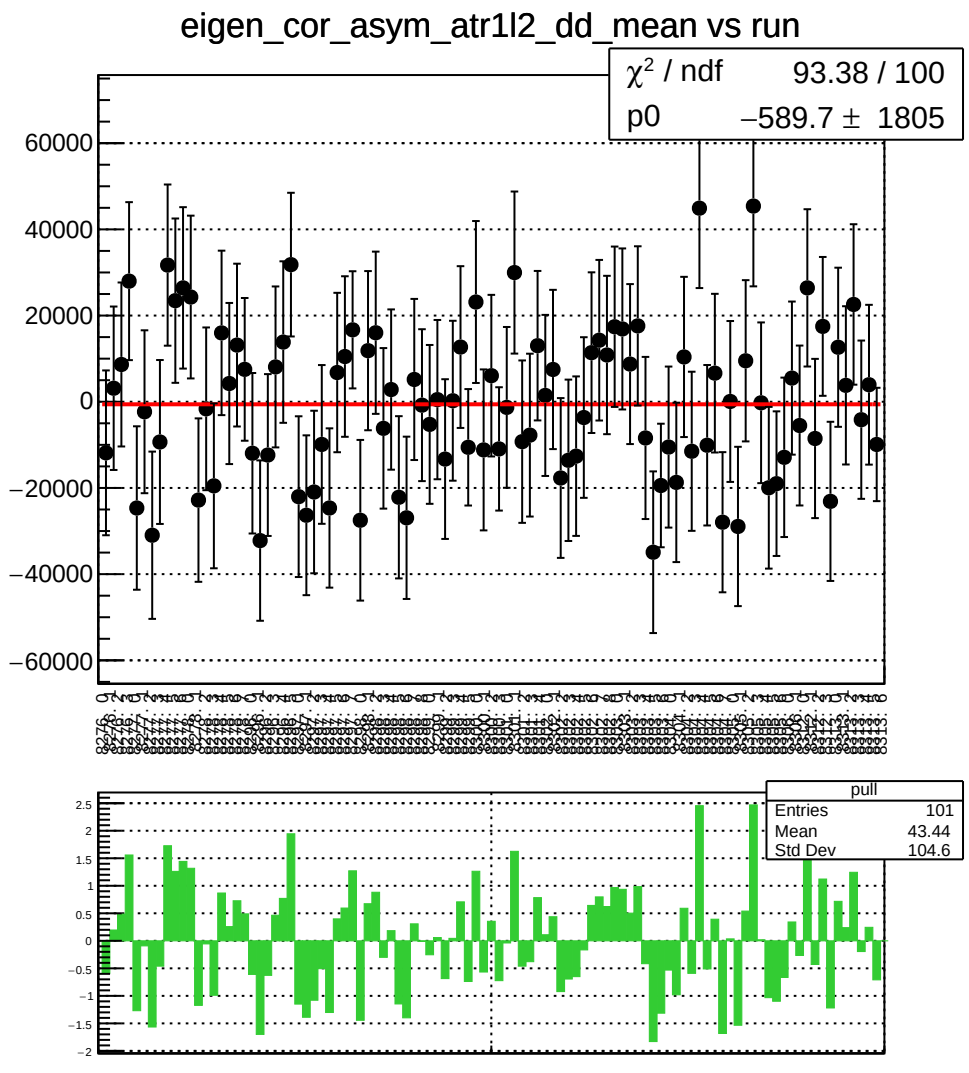

pull1D
Entries 101
Mean 0.004219
Std Dev 0.9616
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

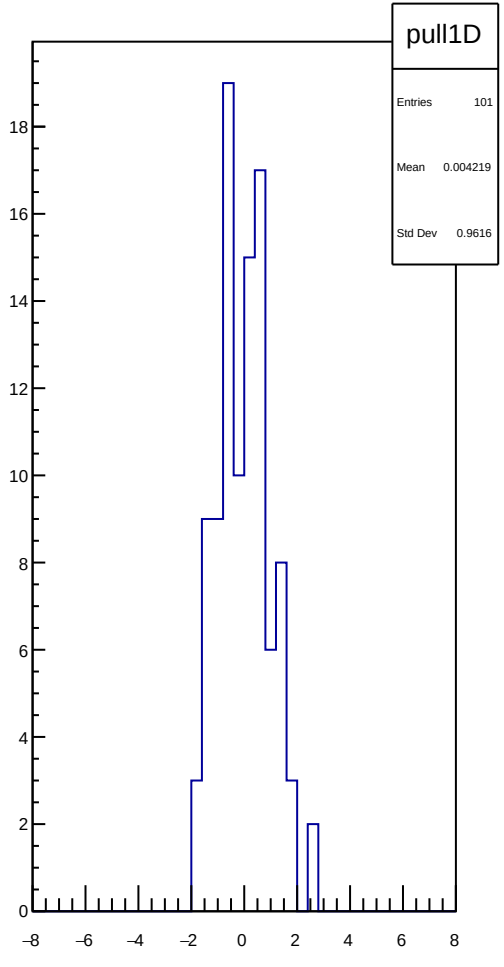

cor_asym_atr1l2_dd_rms vs run
χ² / ndf 202.6 / 100
p0 1772 ± 1.276
1860
1840
1820
1800
1780
1760
1740
1720

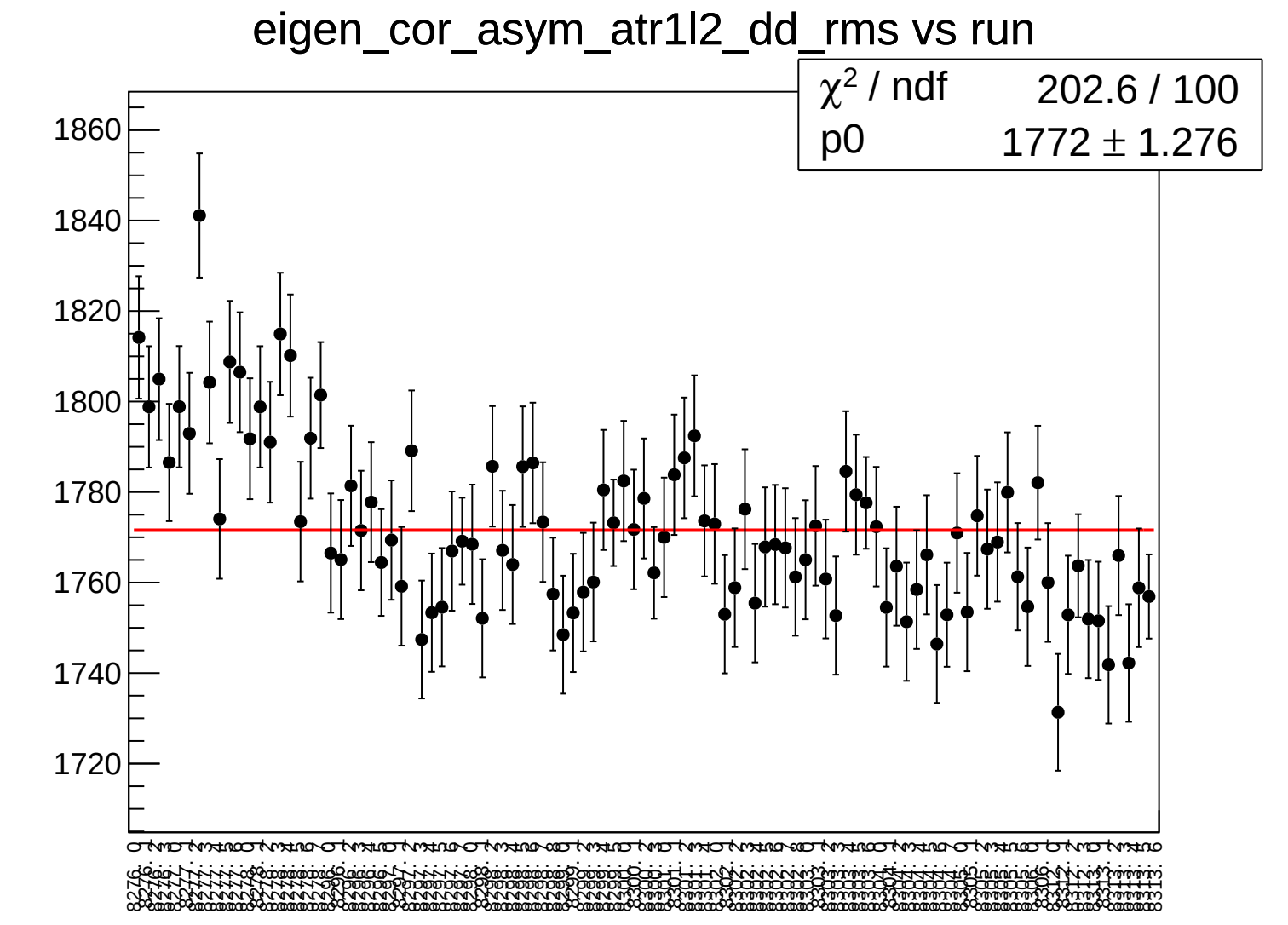

asym_atr1l2_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 115.5 / 100
p0 5646 ± 4022
200
150
100
50
0
−50
−100
−150
pull
Entries 101
Mean −1945
Std Dev 0
3
2
1
0
−1
−2

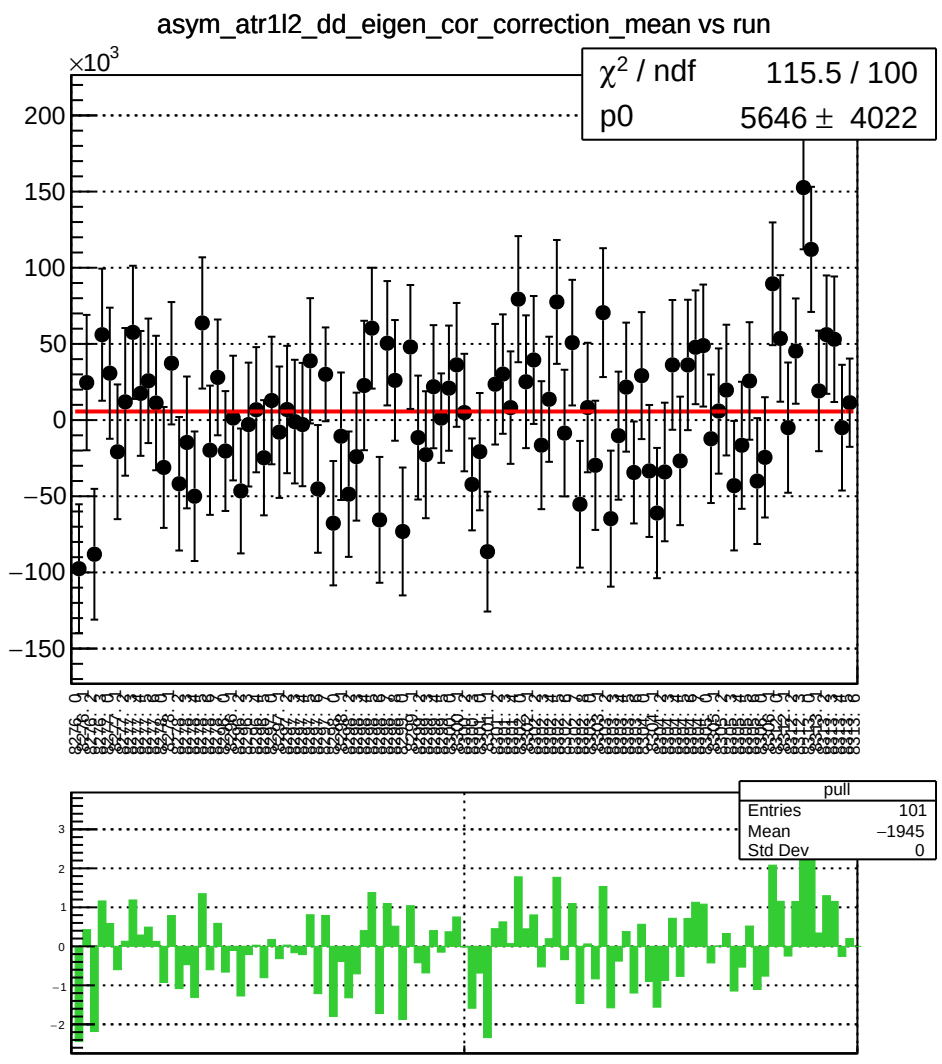

pull1D
Entries 101
Mean −0.003625
Std Dev 1.069
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

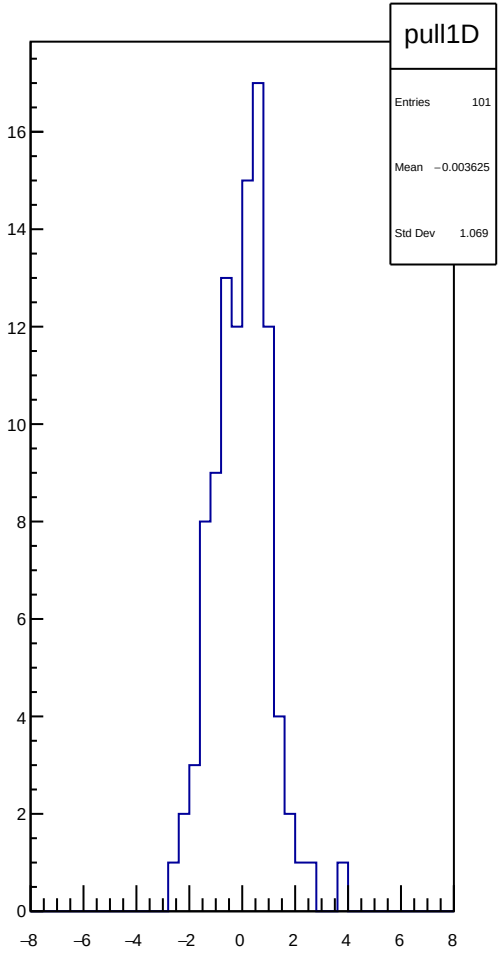

asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 2611 / 100
p0 3946 ± 2.844
4600
4400
4200
4000
3800
3600

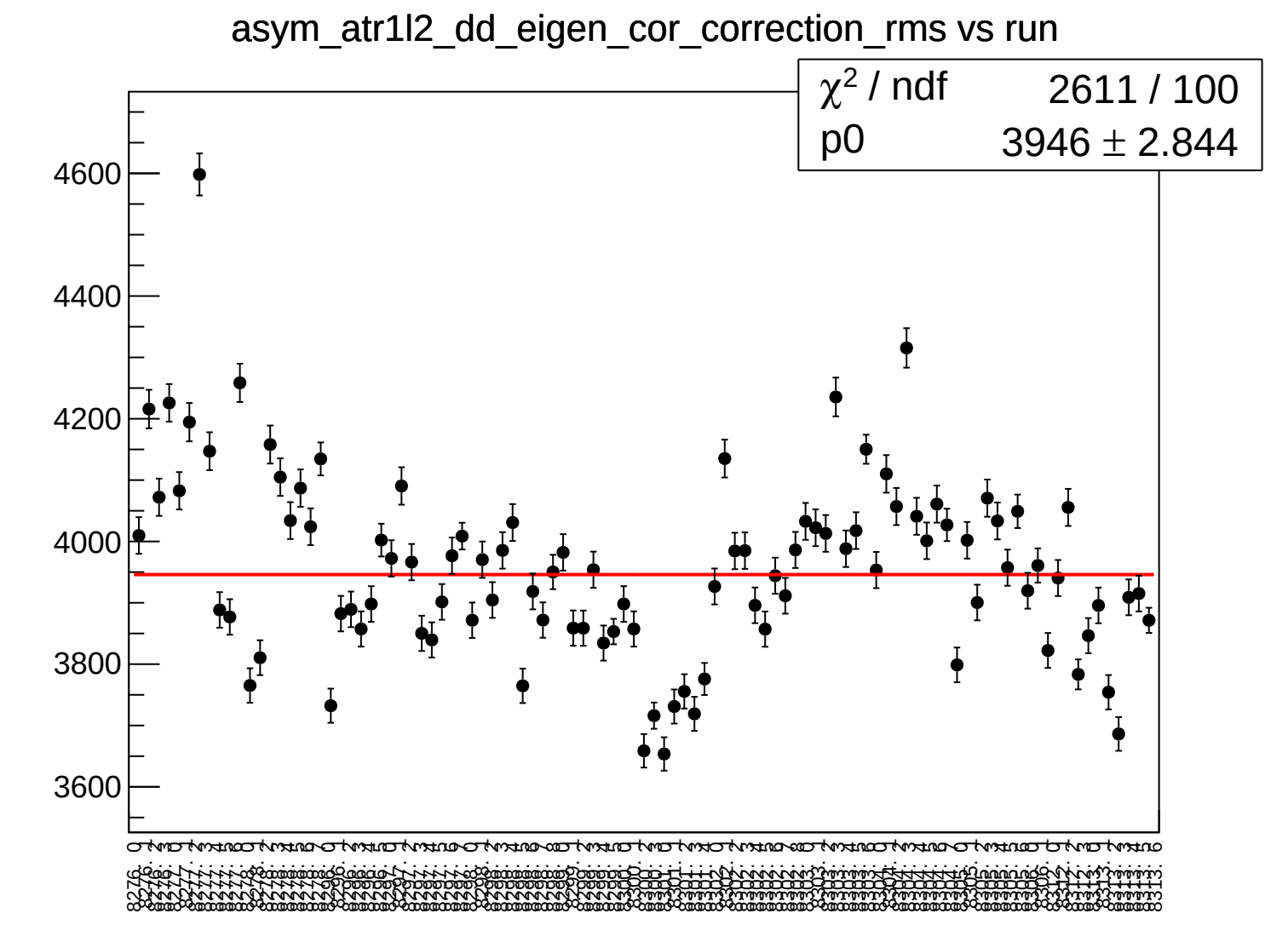

eigen_cor_asym_atr1l2_dd_mean vs run
χ² / ndf 93.38 / 100
p0 −589.7 ± 1805
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean 43.44
Std Dev 104.6
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

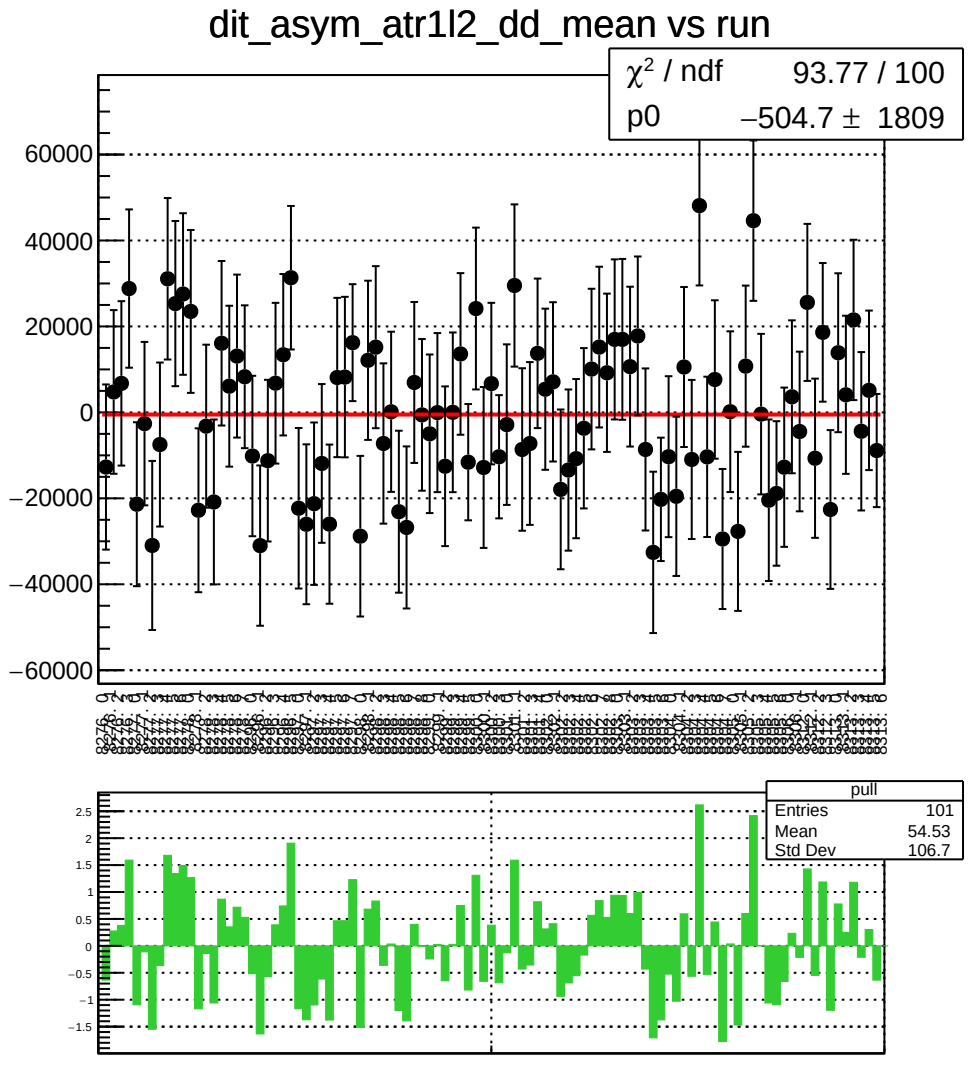

pull1D
Entries 101
Mean 0.004219
Std Dev 0.9616
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

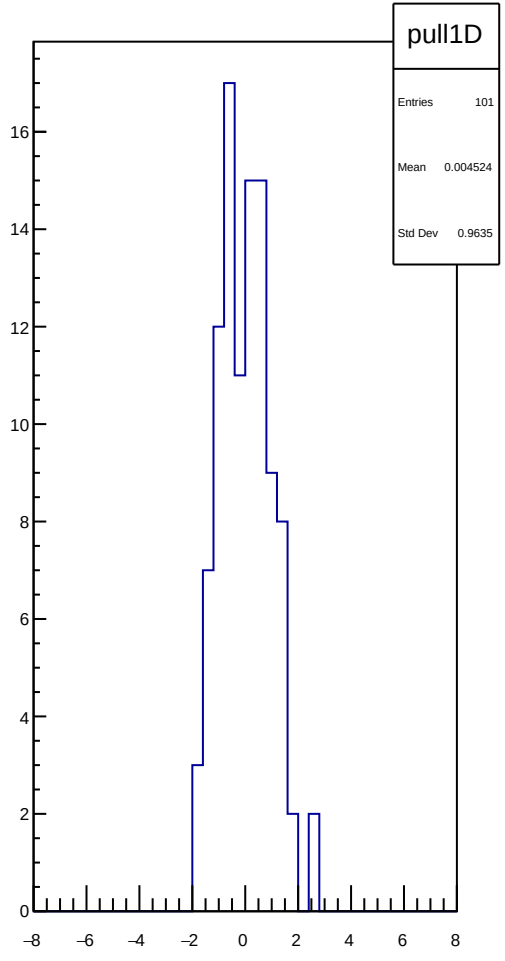

eigen_cor_asym_atr1l2_dd_rms vs run
χ² / ndf 202.6 / 100
p0 1772 ± 1.276
1860
1840
1820
1800
1780
1760
1740
1720

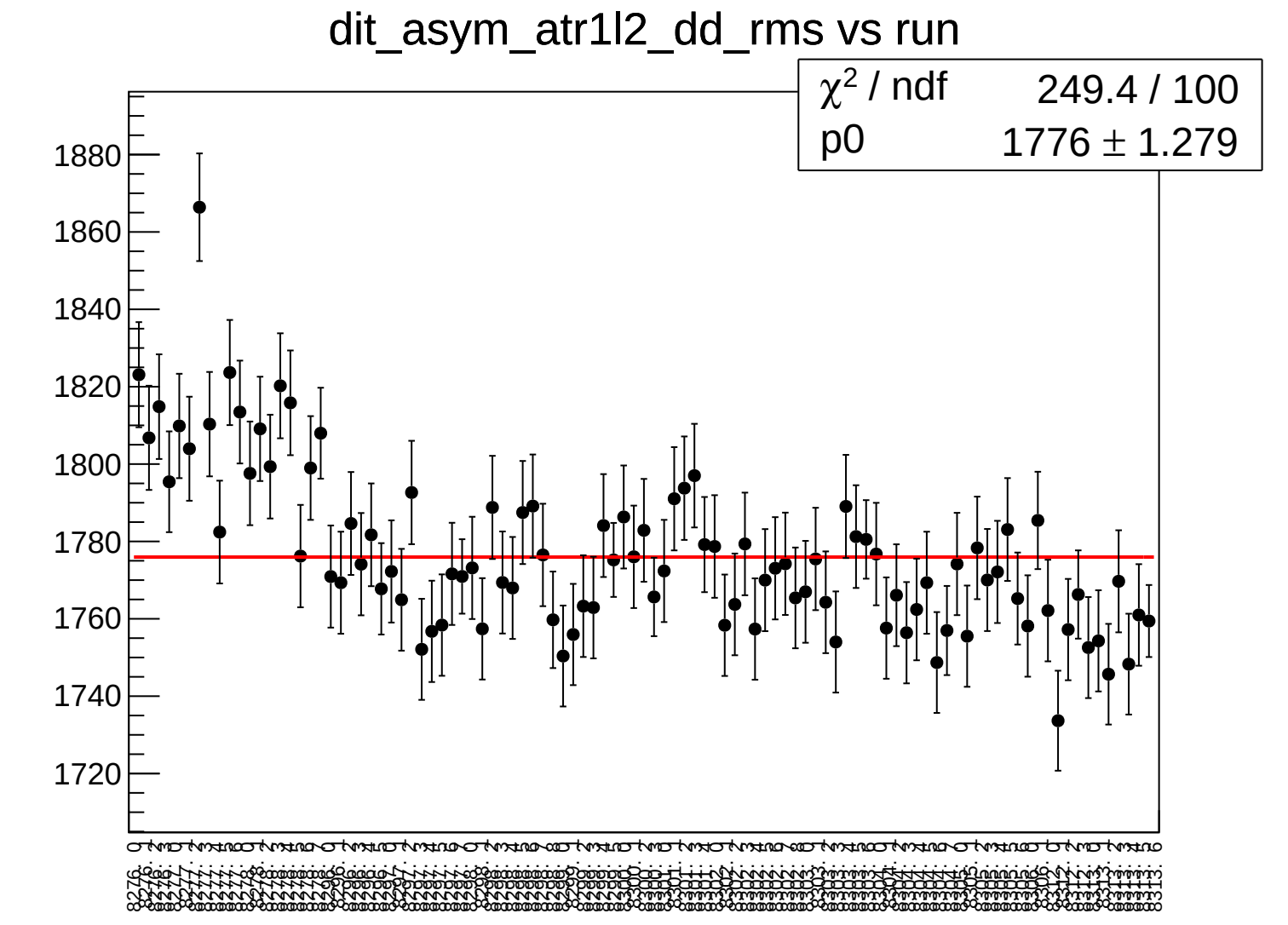

asym_atr1l2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 115.5 / 100
p0 5646 ± 4022
pull
Entries 101
Mean −1945
Std Dev 0

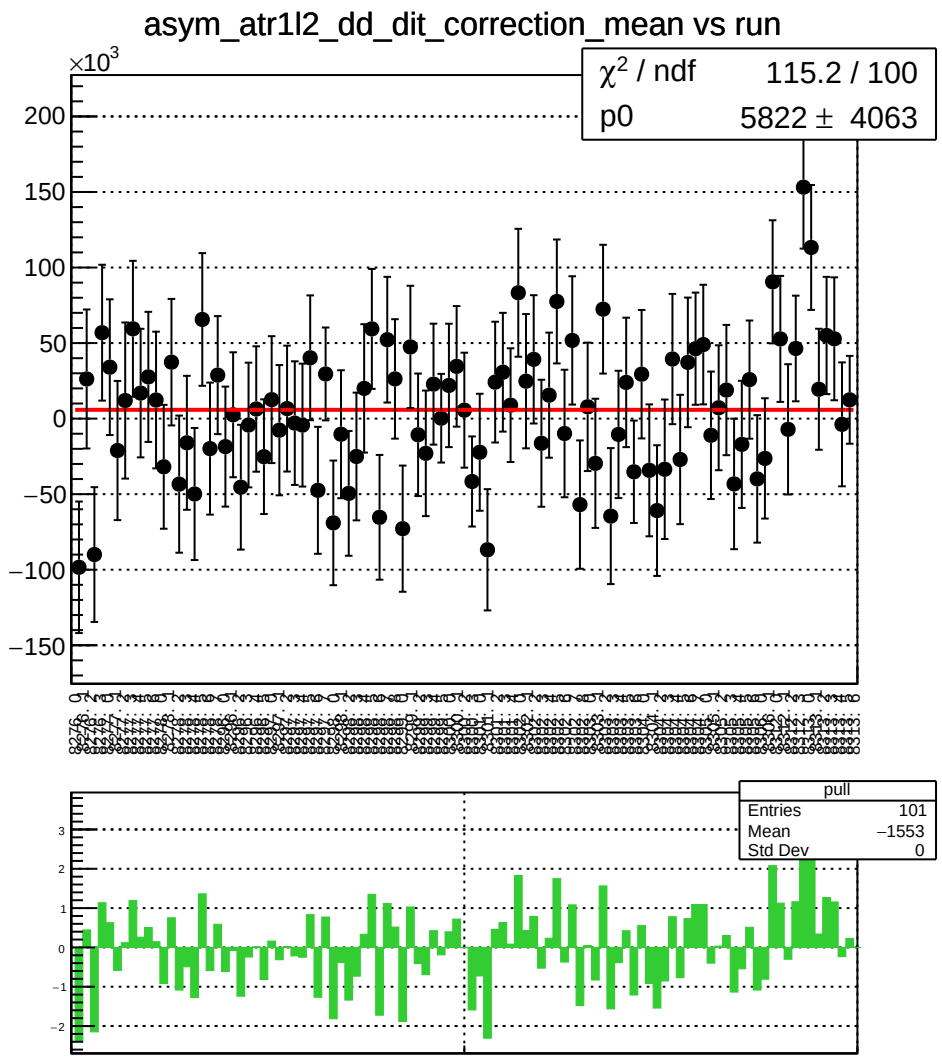

pull1D
Entries 101
Mean −0.003625
Std Dev 1.069

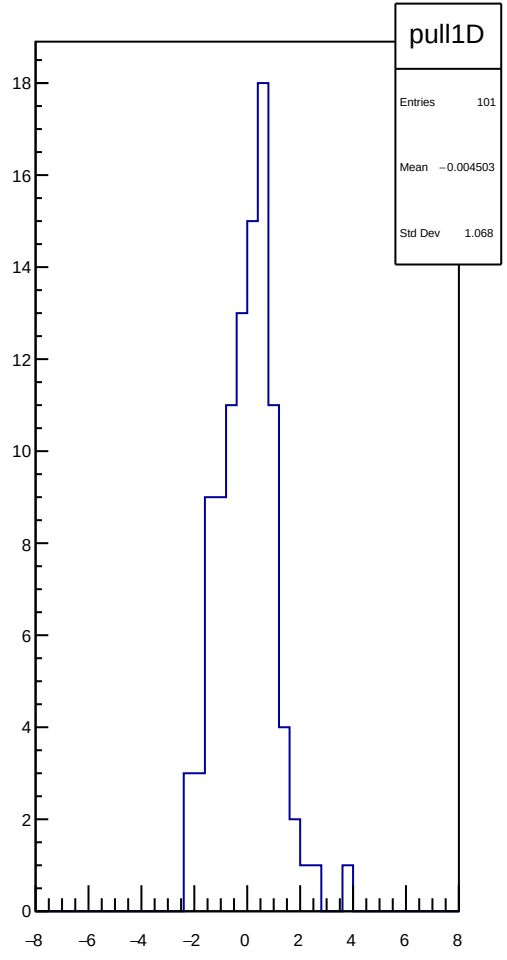

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 2611 / 100
p0 3946 ± 2.844
4600
4400
4200
4000
3800
3600

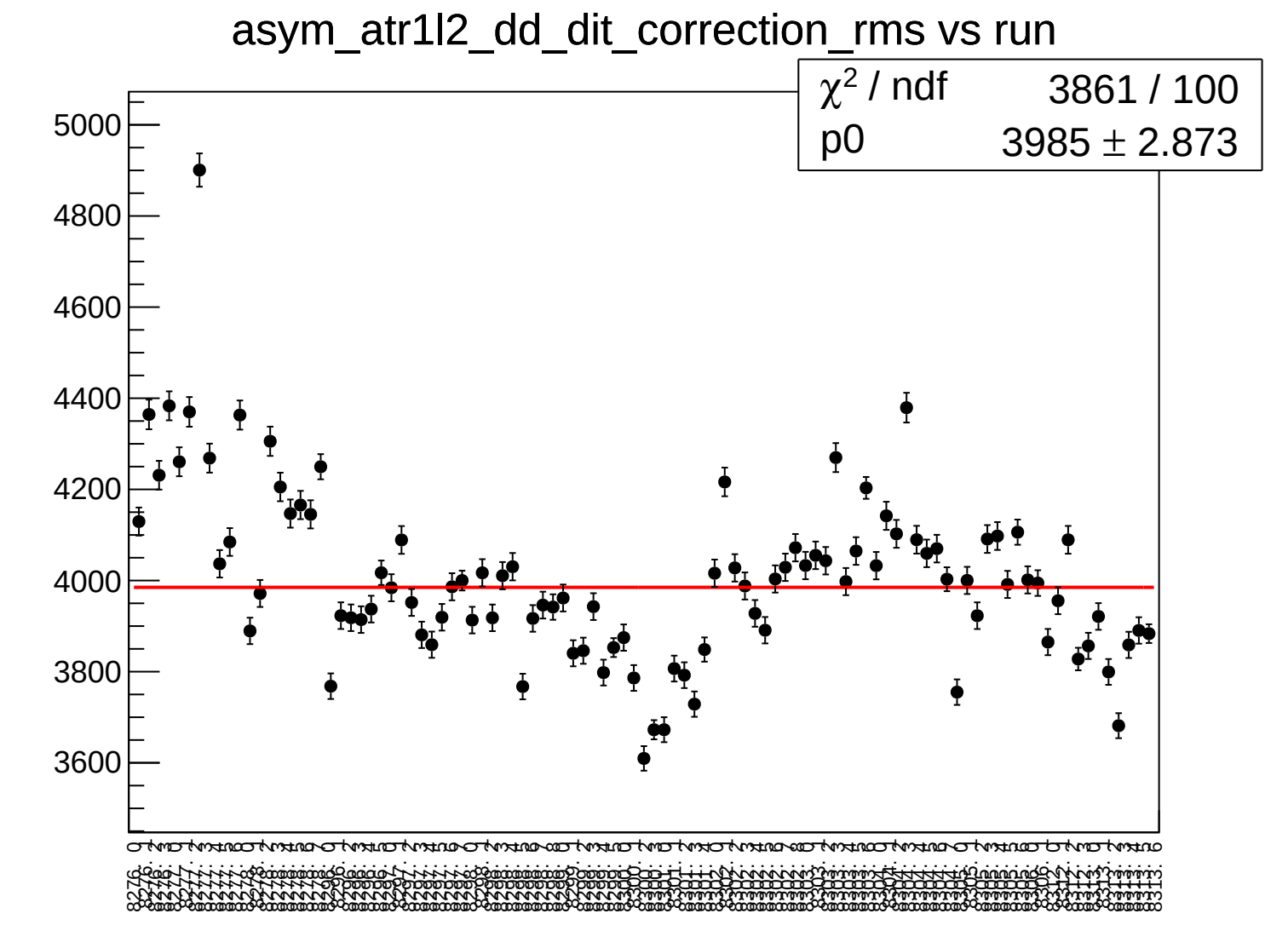

dit_asym_atr1l2_dd_mean vs run
χ² / ndf 93.77 / 100
p0 −504.7 ± 1809
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean 54.53
Std Dev 106.7
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

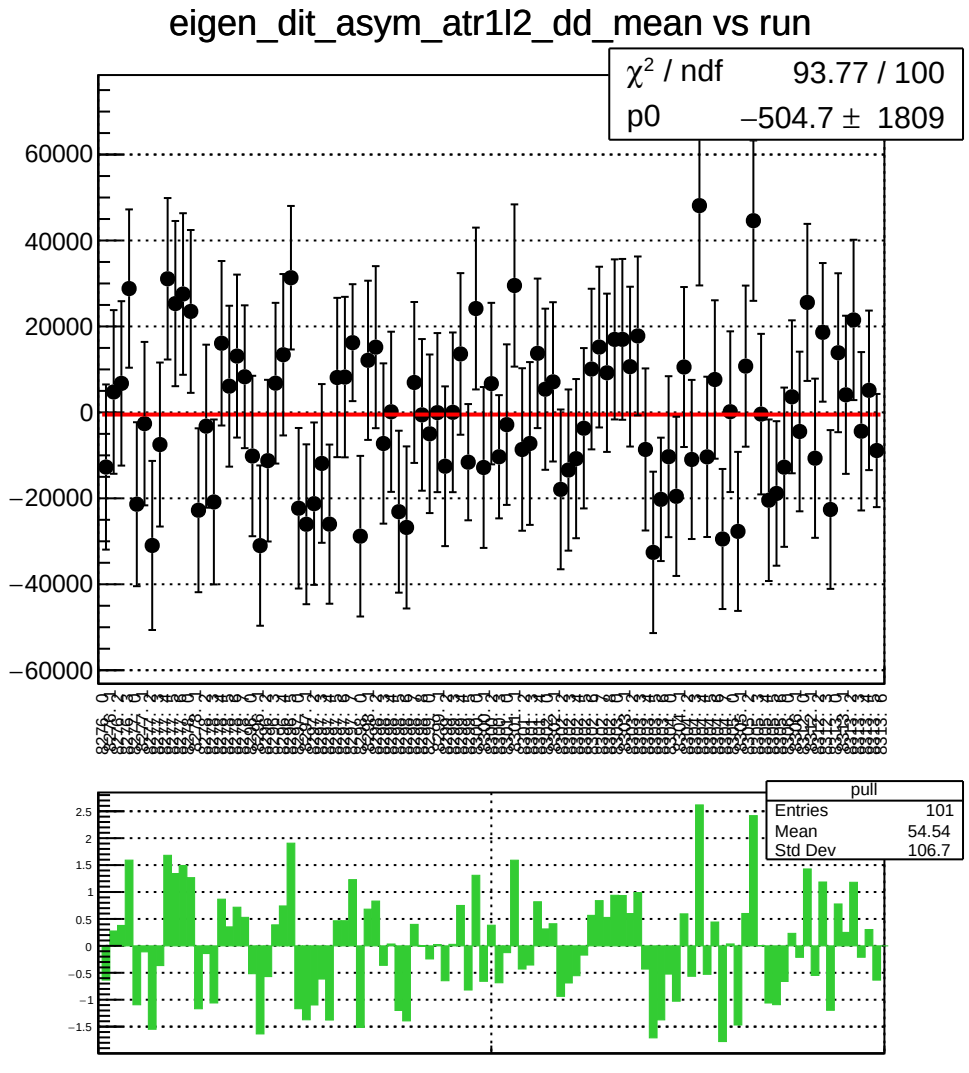

pull1D
Entries 101
Mean 0.004524
Std Dev 0.9635
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

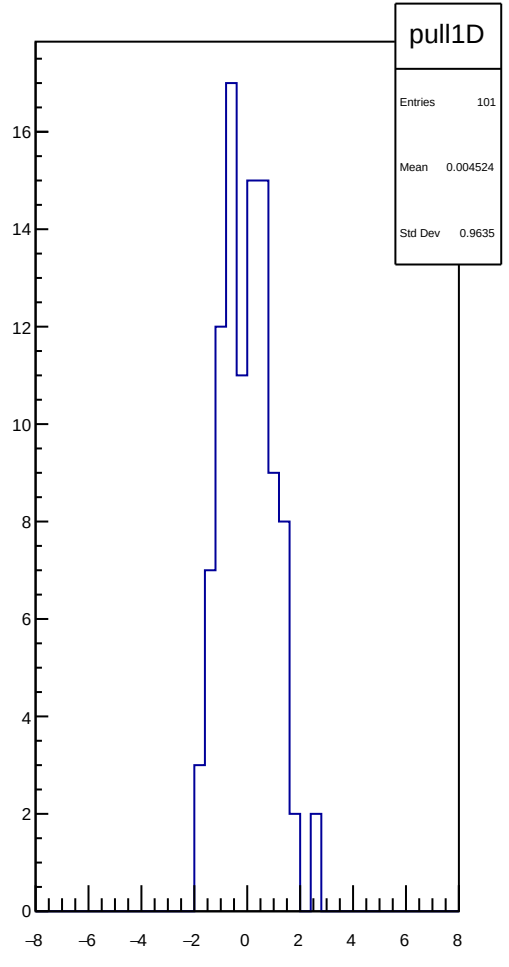

dit_asym_atr1l2_dd_rms vs run
χ² / ndf 249.4 / 100
p0 1776 ± 1.279
1880
1860
1840
1820
1800
1780
1760
1740
1720

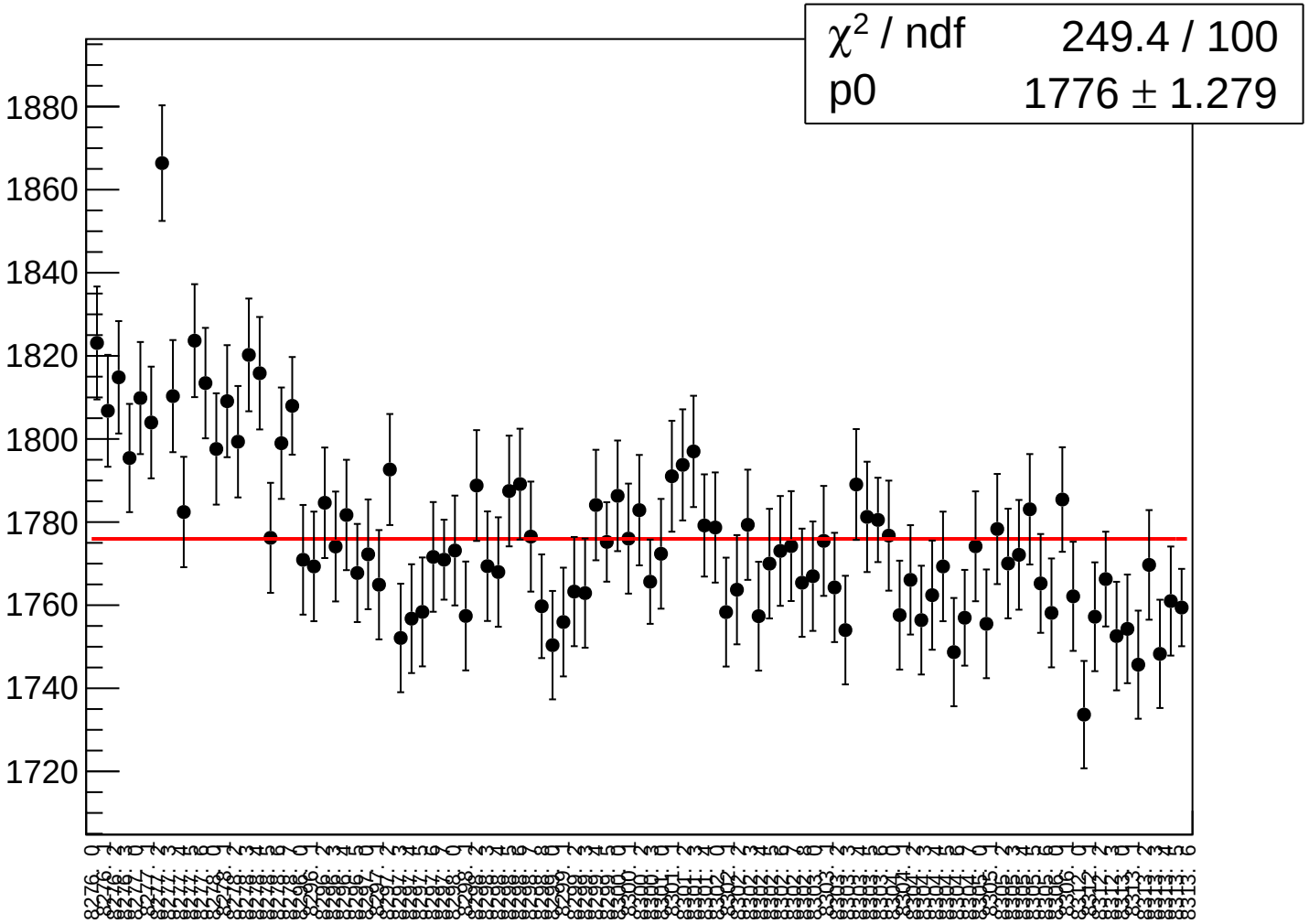

asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 115.2 / 100
p0 5822 ± 4063
200
150
100
50
0
−50
−100
−150
pull
Entries 101
Mean −1553
Std Dev 0
3
2
1
0
−1
−2

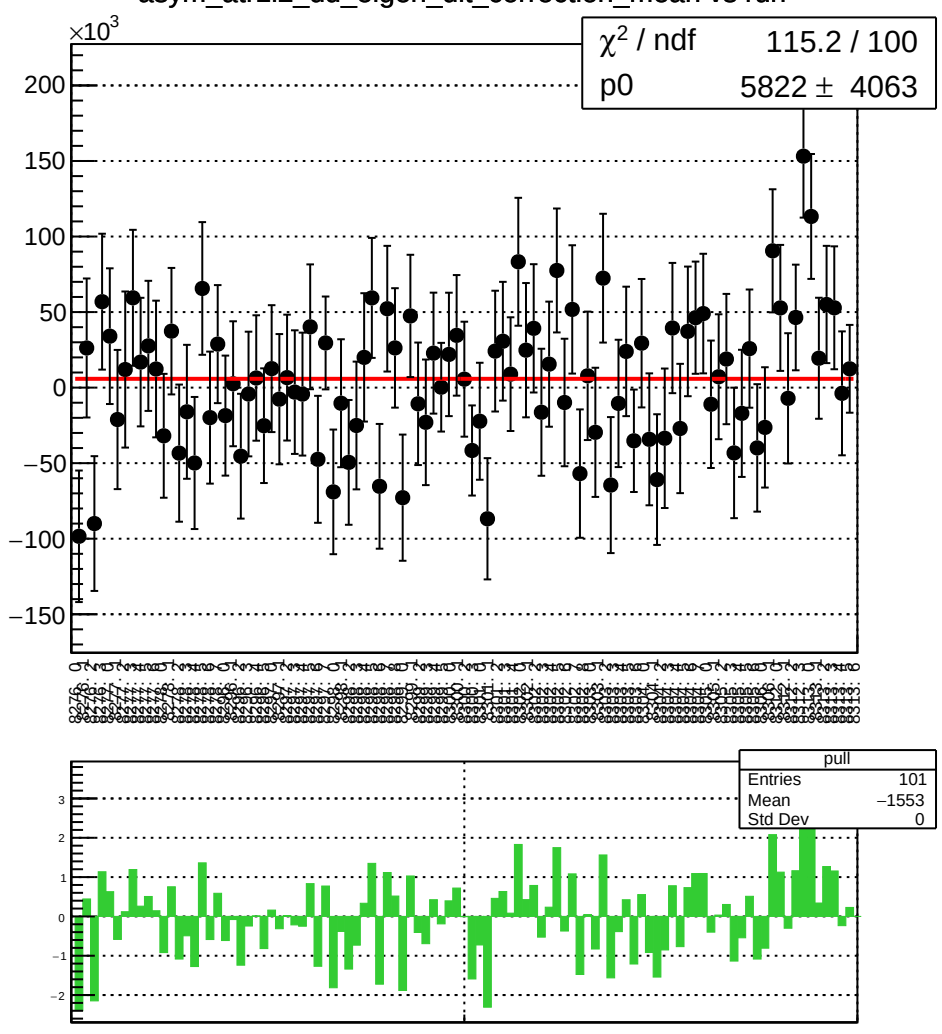

pull1D
Entries 101
Mean −0.004503
Std Dev 1.068
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

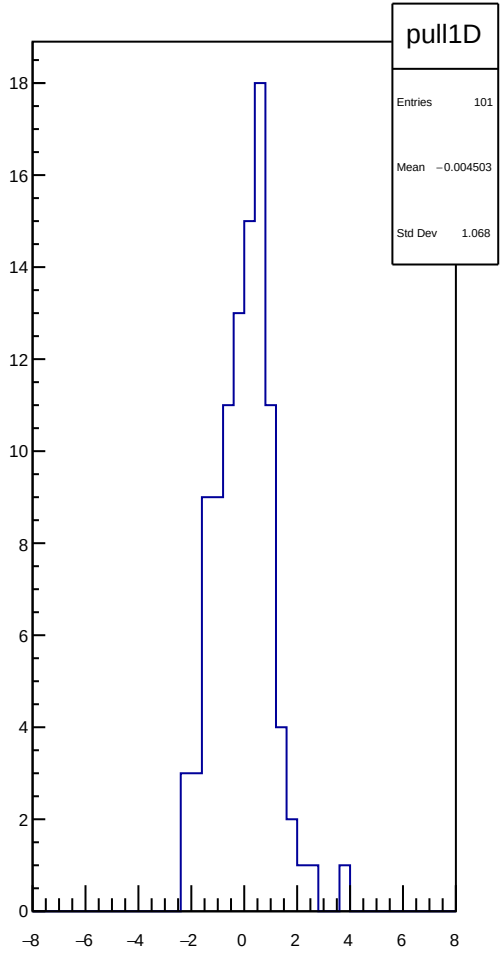

asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 3861 / 100
p0 3985 ± 2.873
5000
4800
4600
4400
4200
4000
3800
3600

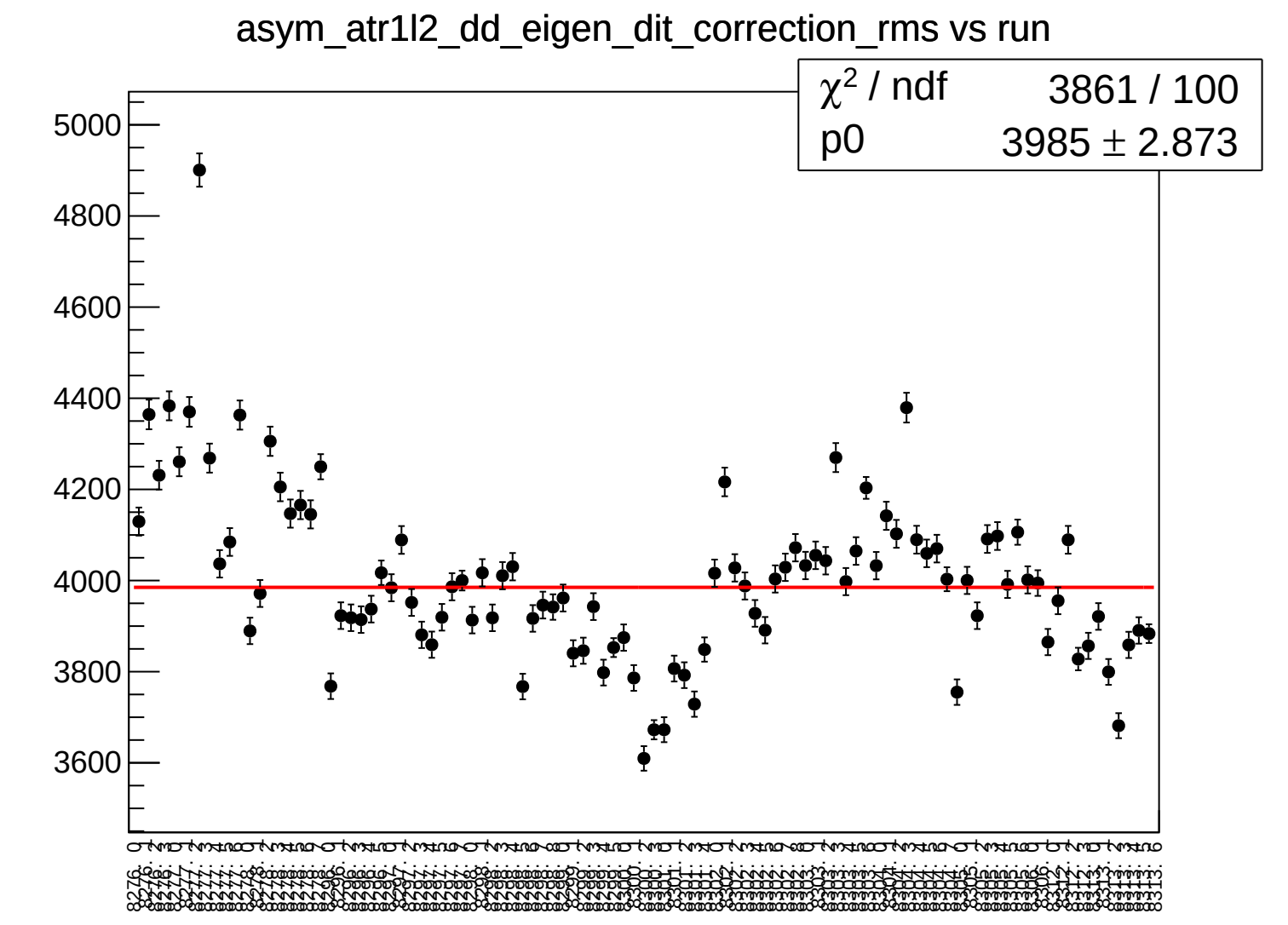

eigen_dit_asym_atr1l2_dd_mean vs run
χ² / ndf 93.77 / 100
p0 −504.7 ± 1809
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean 54.54
Std Dev 106.7
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

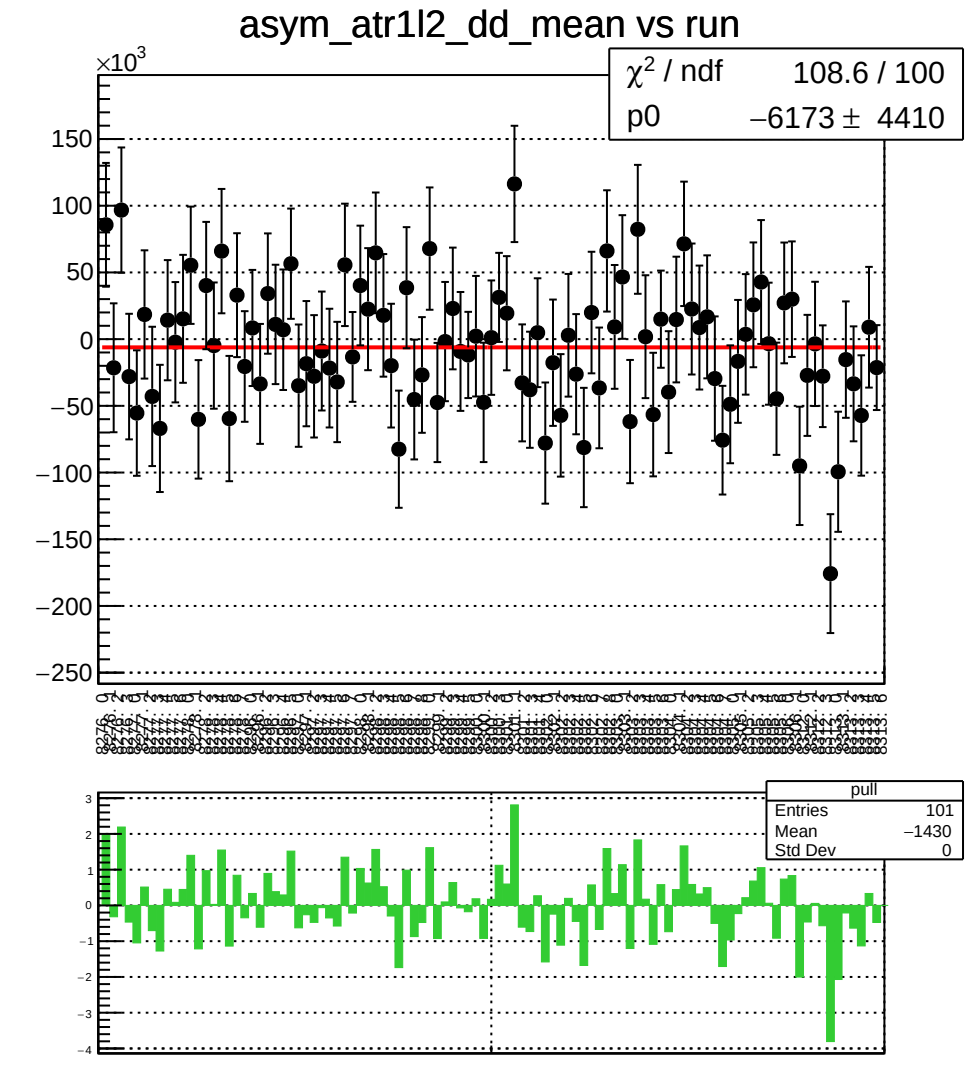

pull1D
Entries 101
Mean 0.004524
Std Dev 0.9635
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

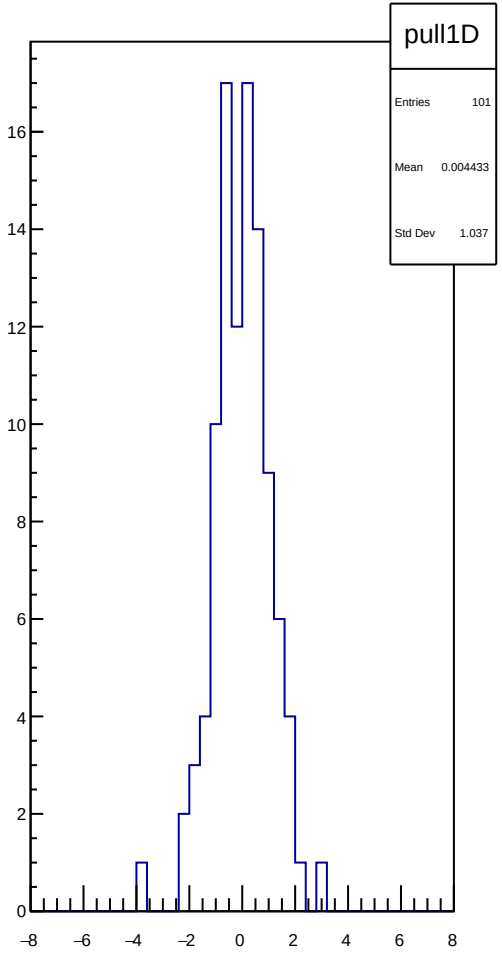

eigen_dit_asym_atr1l2_dd_rms vs run
χ² / ndf 249.4 / 100
p0 1776 ± 1.279
1880
1860
1840
1820
1800
1780
1760
1740
1720

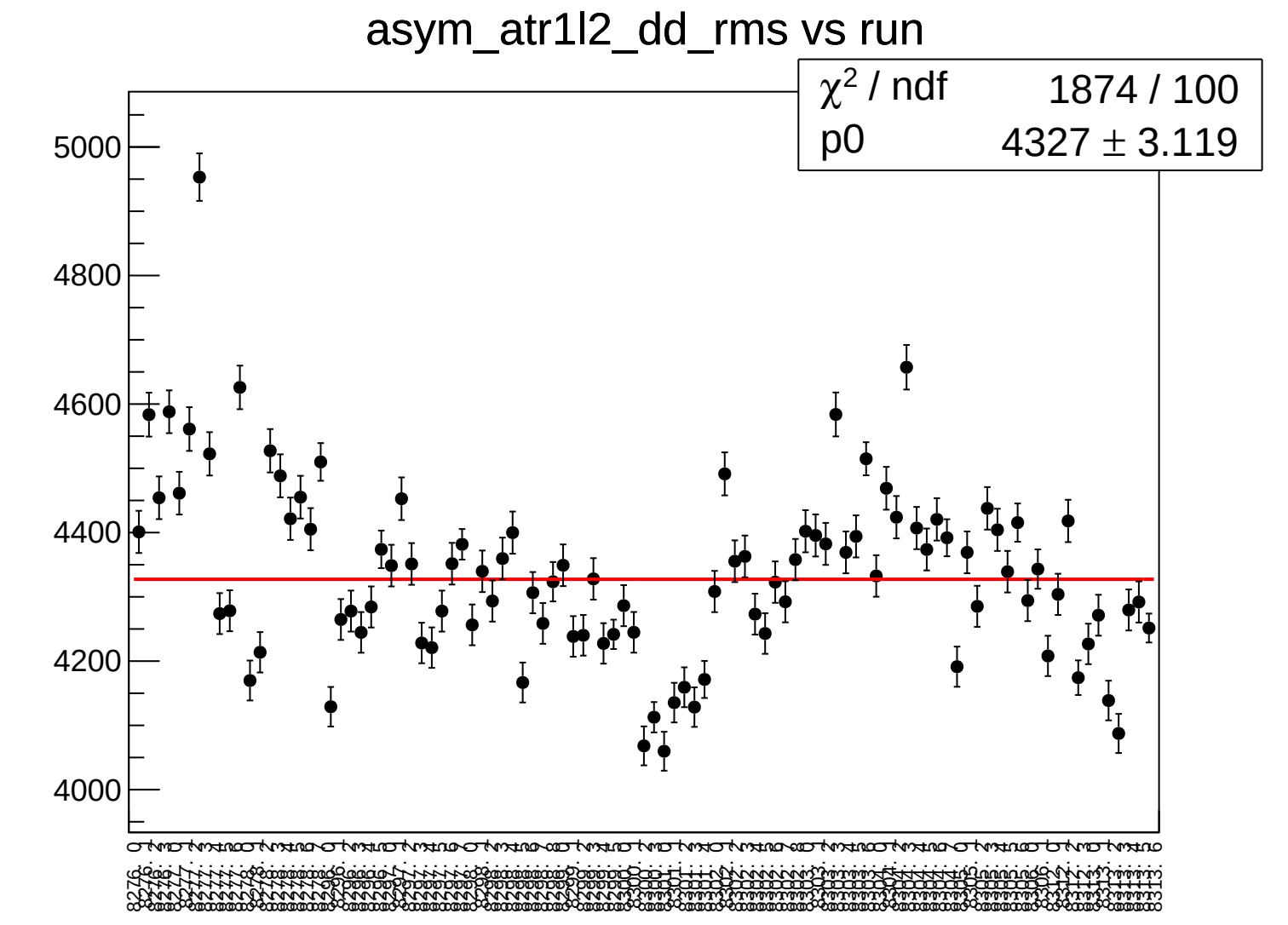

asym_atr1l2_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 115.2 / 100
p0 5822 ± 4063
200
150
100
50
0
−50
−100
−150
pull
Entries 101
Mean −1553
Std Dev 0
3
2
1
0
−1
−2

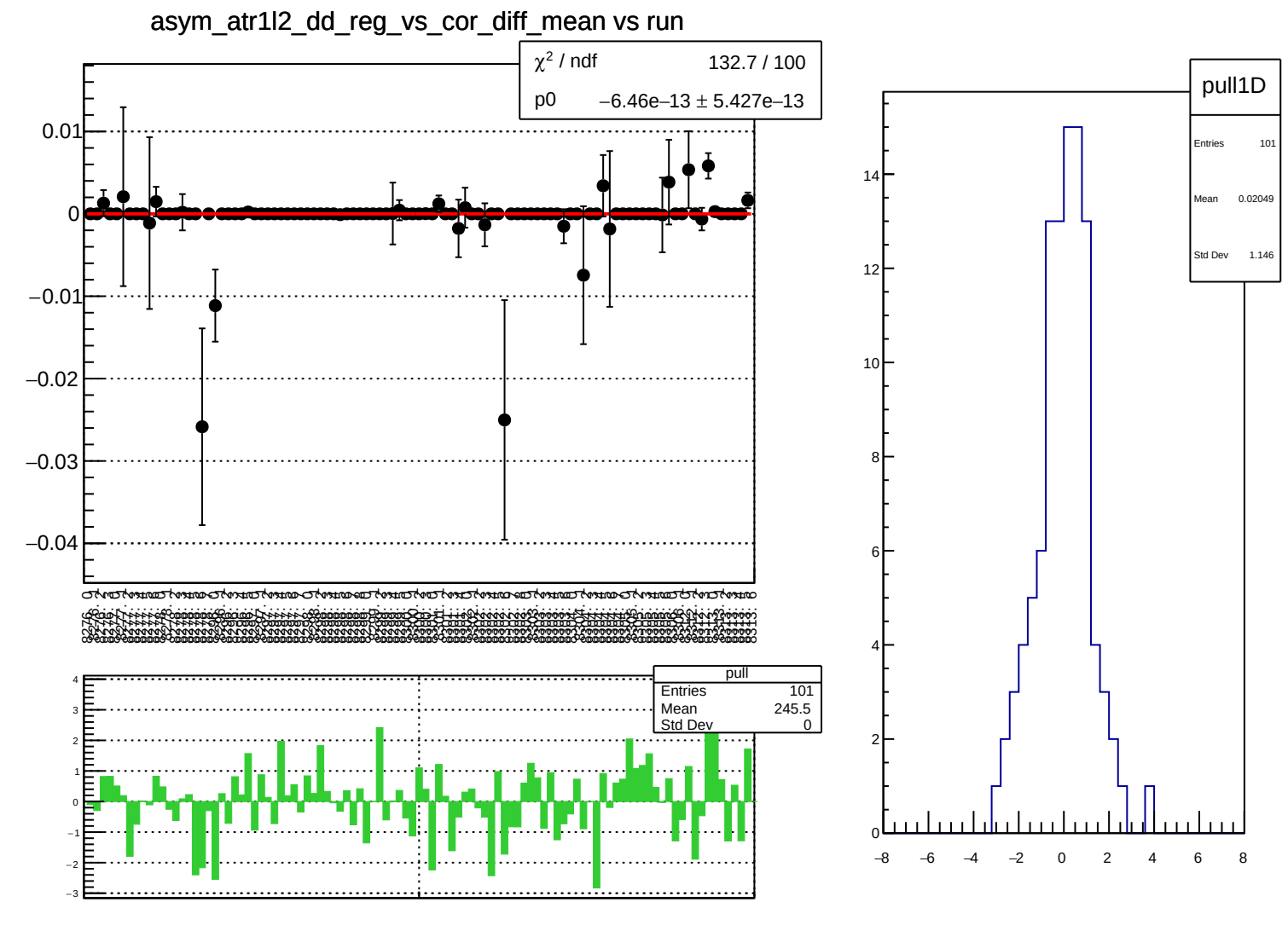

pull1D
Entries 101
Mean −0.004503
Std Dev 1.068
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

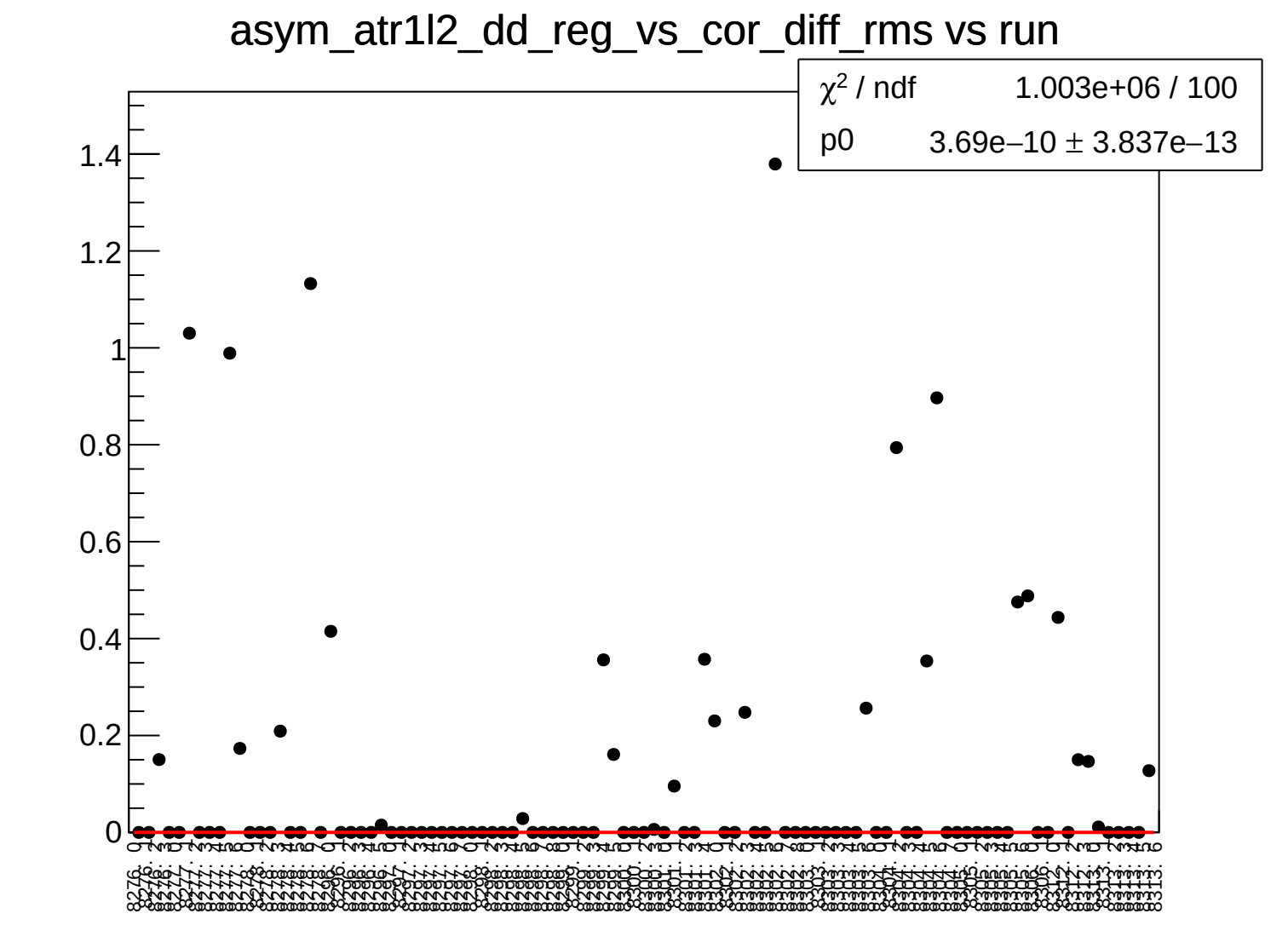

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 3861 / 100
p0 3985 ± 2.873
5000
4800
4600
4400
4200
4000
3800
3600

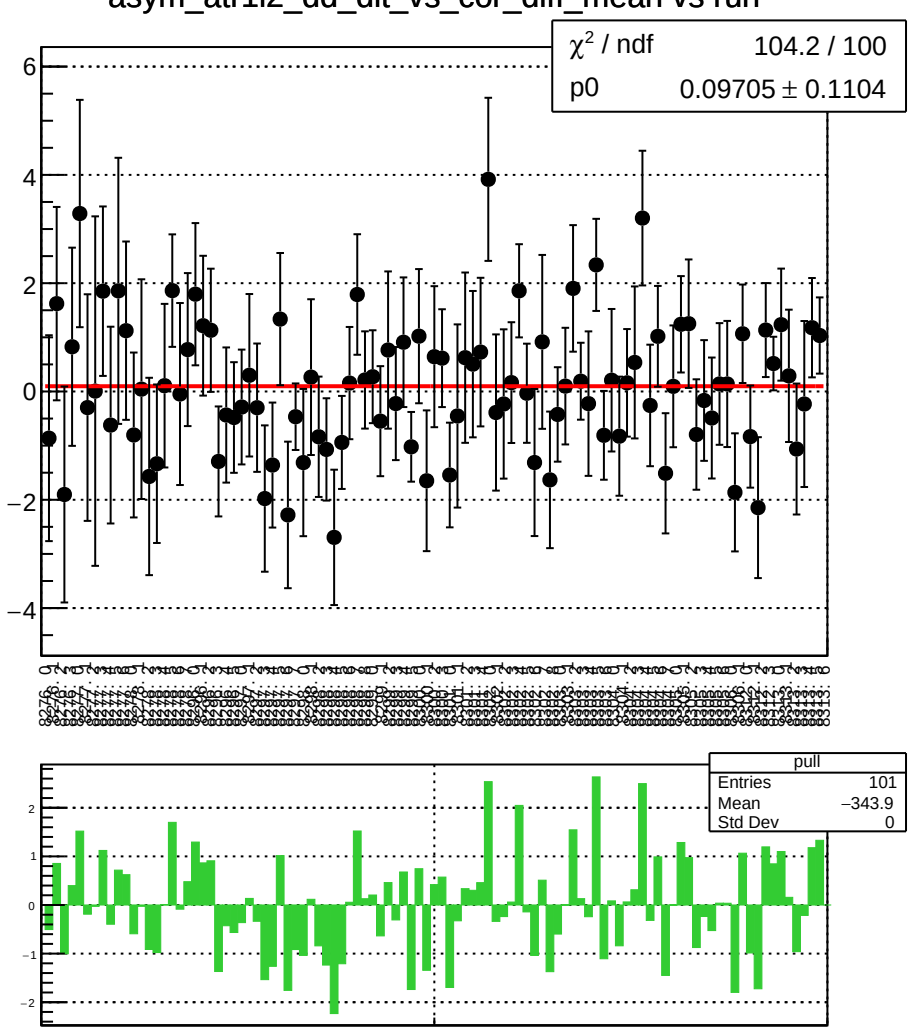

asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 108.6 / 100
p0 −6173 ± 4410
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 101
Mean −1430
Std Dev 0
3
2
1
0
−1
−2
−3
−4

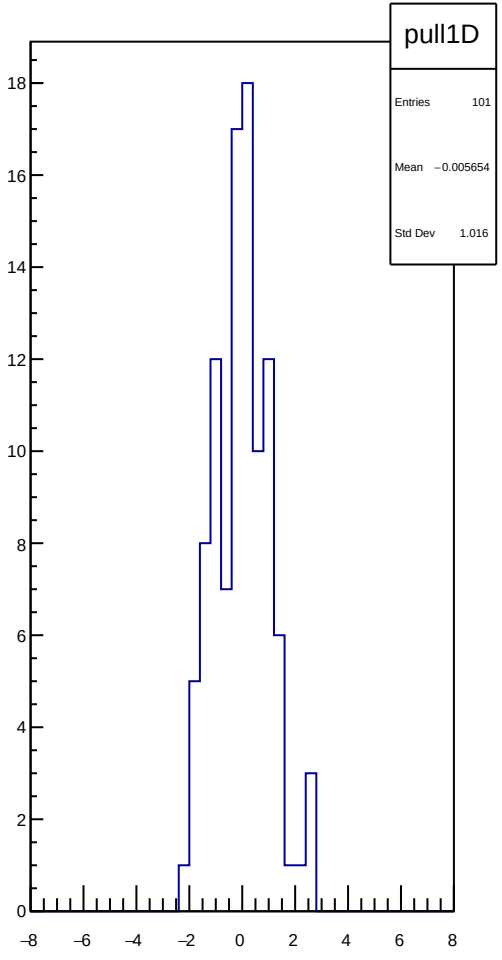

pull1D
Entries 101
Mean 0.004433
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

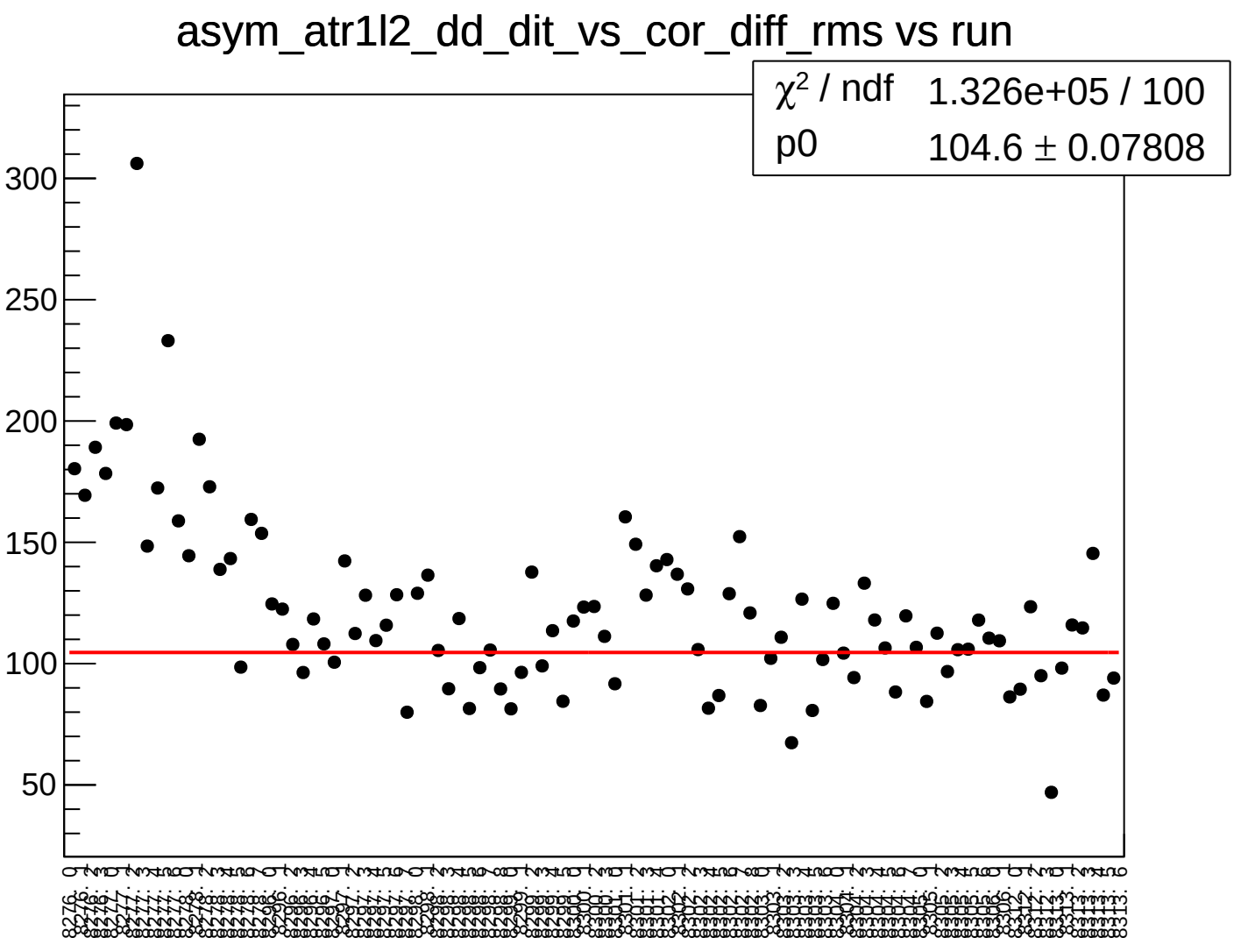

asym_atr1l2_dd_rms vs run
χ^2 / ndf 1874 / 100
p0 4327 ± 3.119
5000
4800
4600
4400
4200
4000

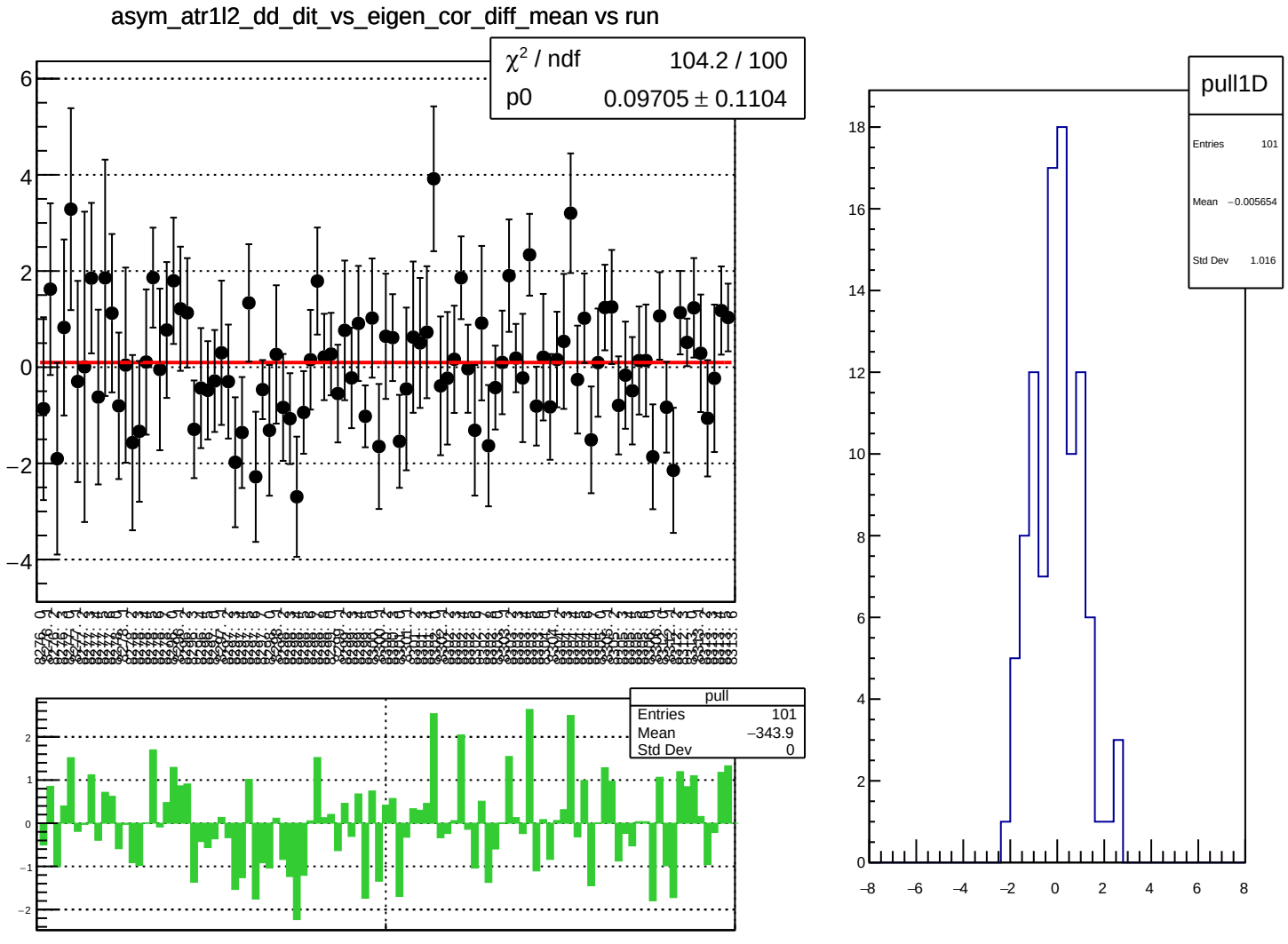

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 132.7 / 100
p0 −6.46e−13 ± 5.427e−13
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 101
Mean 245.5
Std Dev 0
pull1D
Entries 101
Mean 0.02049
Std Dev 1.146

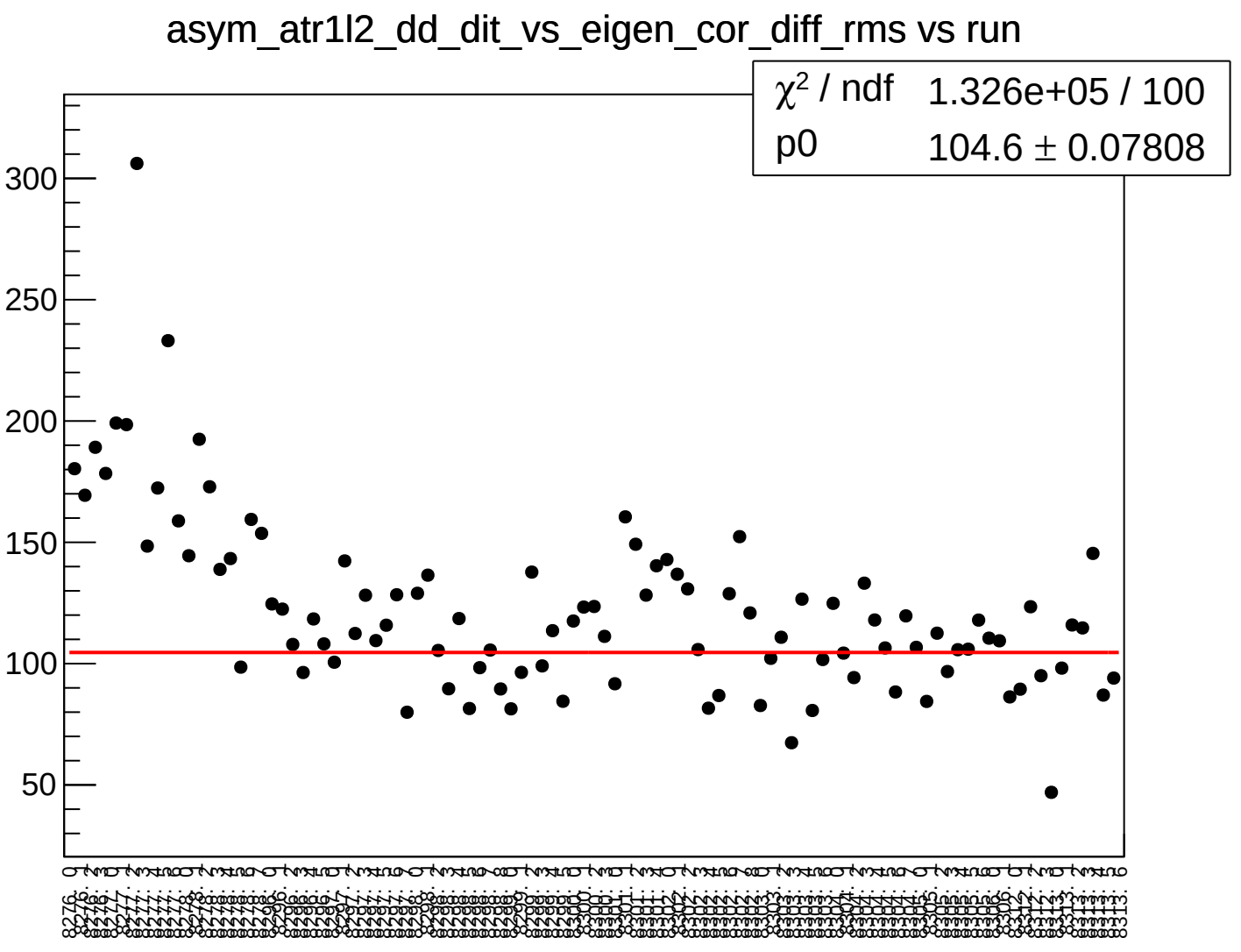

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.003e+06 / 100
p0 3.69e−10 ± 3.837e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

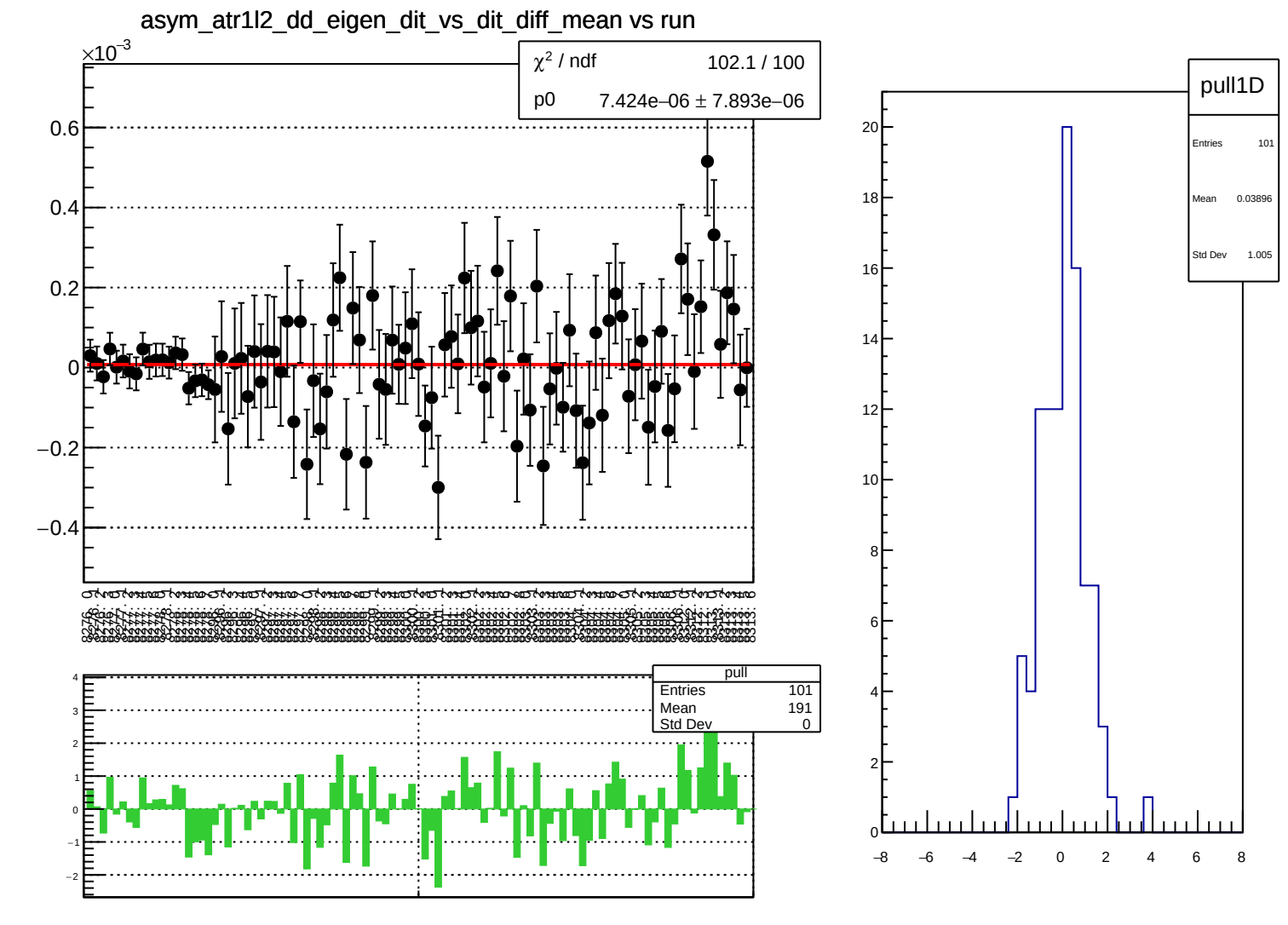

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 104.2 / 100
p0 0.09705 ± 0.1104
pull
Entries 101
Mean −343.9
Std Dev 0

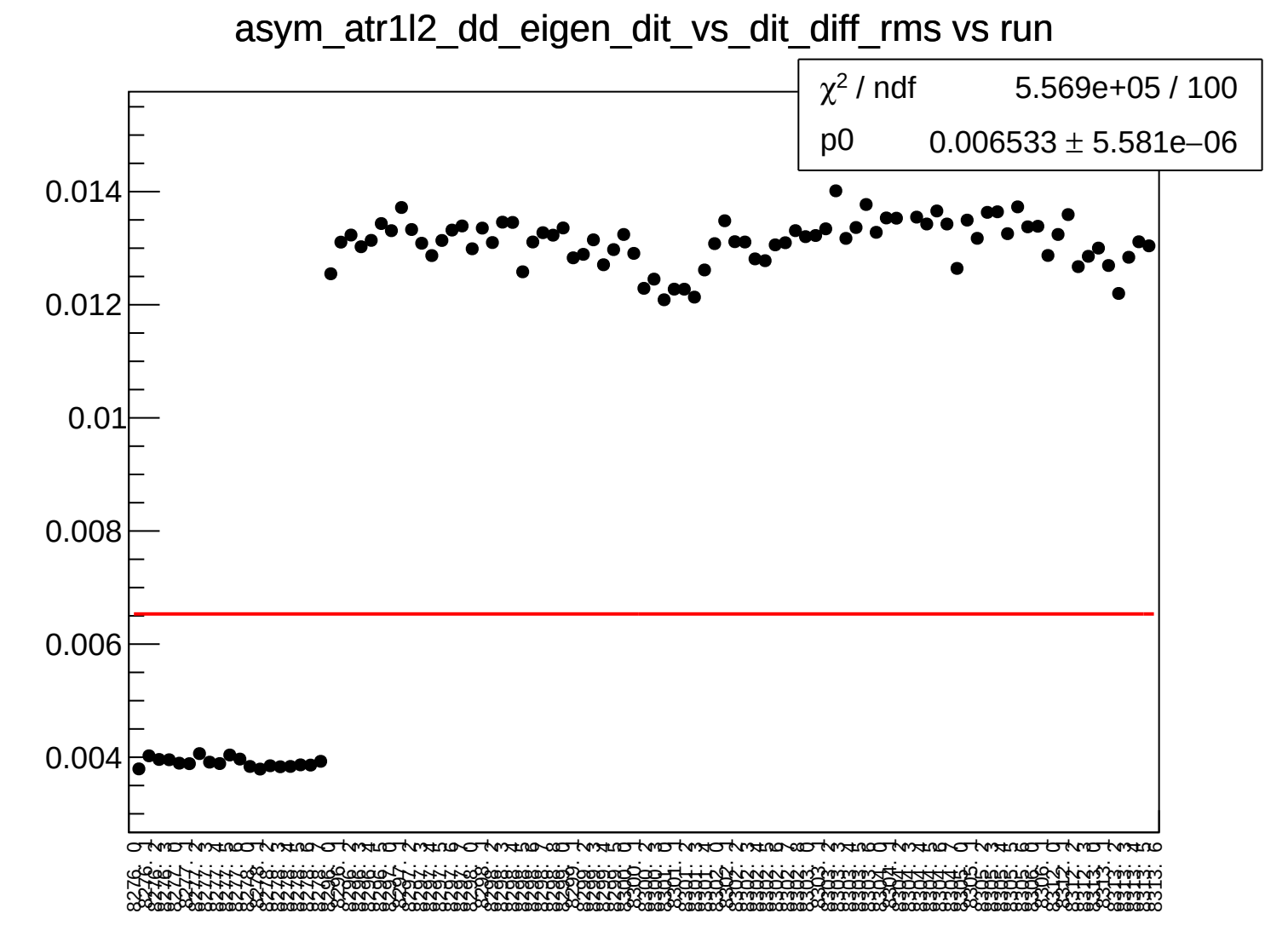

pull1D
Entries 101
Mean −0.005654
Std Dev 1.016

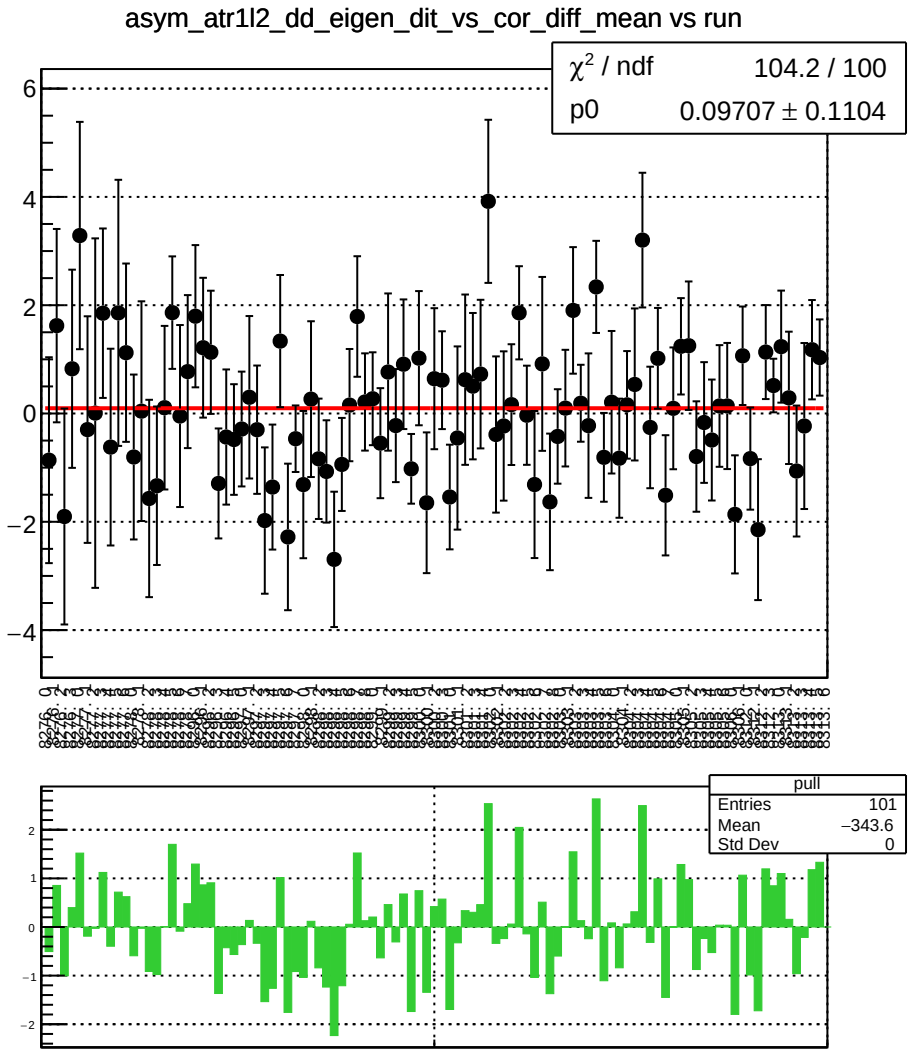

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.326e+05 / 100
p0 104.6 ± 0.07808
300
250
200
150
100
50

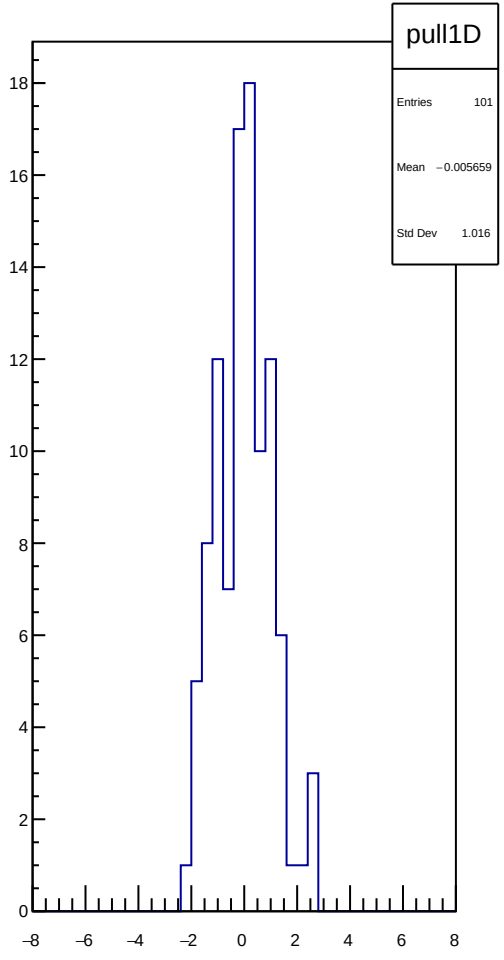

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.2 / 100
p0 0.09705 ± 0.1104
pull
Entries 101
Mean −343.9
Std Dev 0
pull1D
Entries 101
Mean −0.005654
Std Dev 1.016

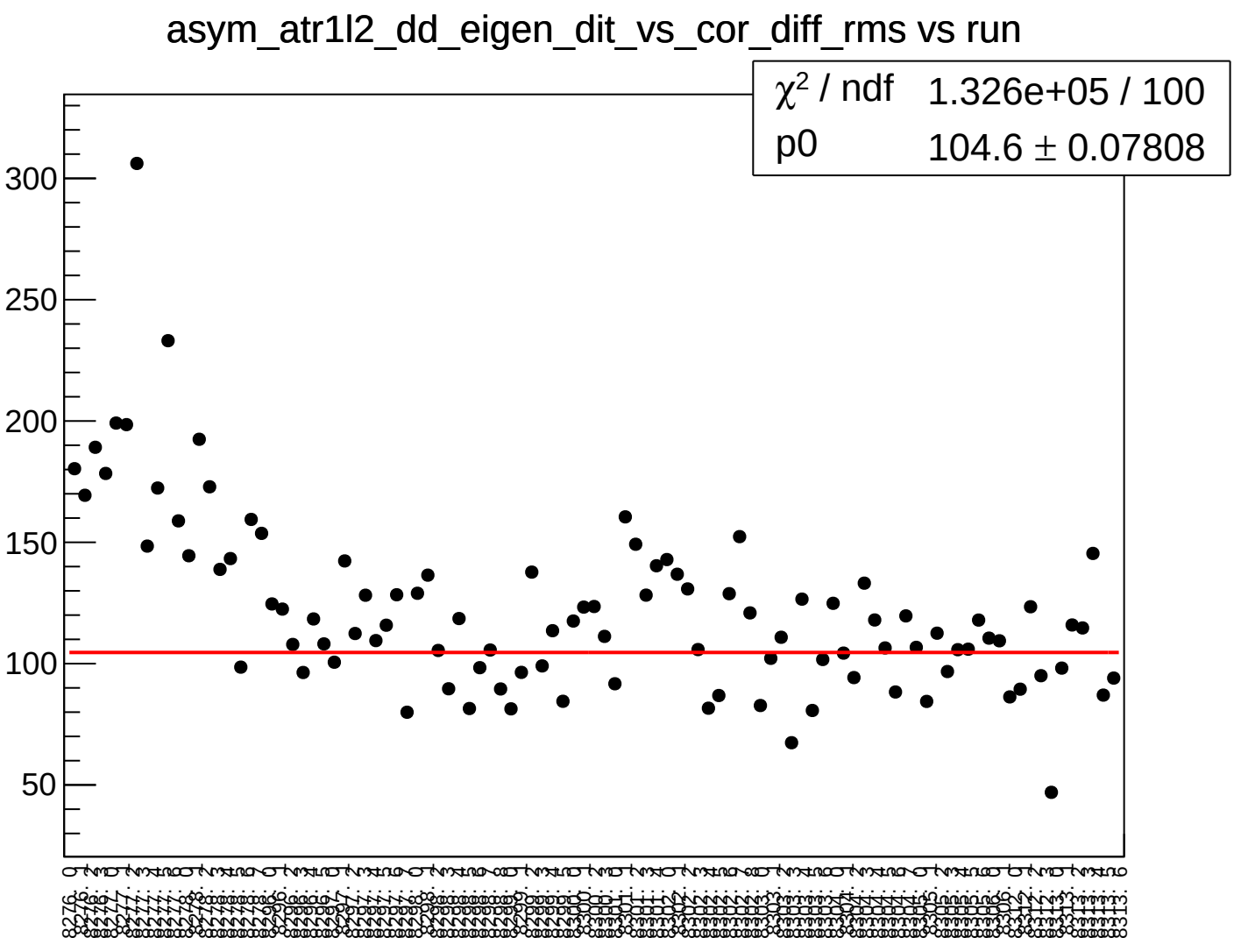

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.326e+05 / 100
p0 104.6 ± 0.07808
300
250
200
150
100
50

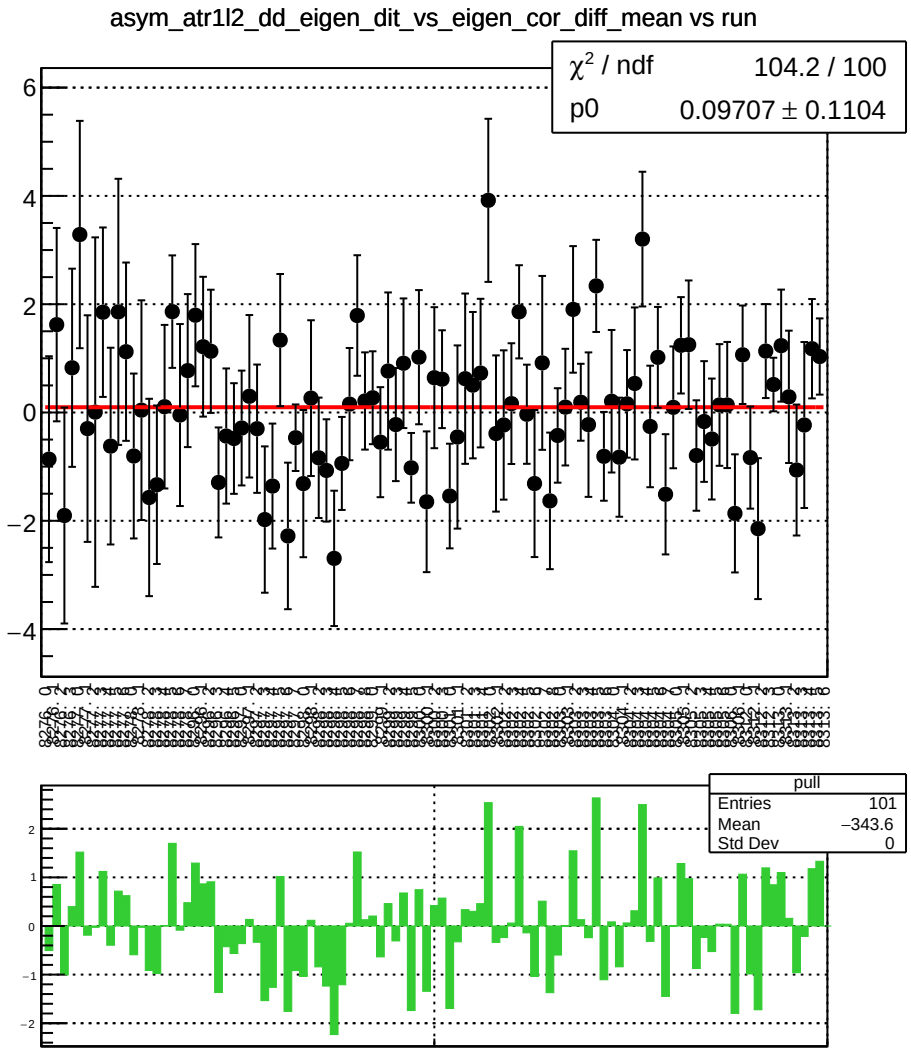

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 102.1 / 100
p0 7.424e−06 ± 7.893e−06
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 101
Mean 191
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.03896
Std Dev 1.005
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

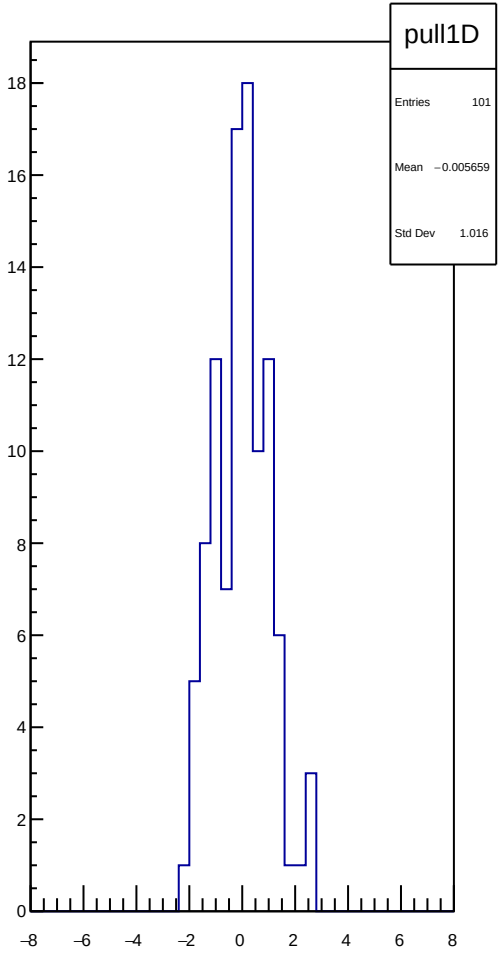

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.569e+05 / 100
p0 0.006533 ± 5.581e−06
0.014
0.012
0.01
0.008
0.006
0.004

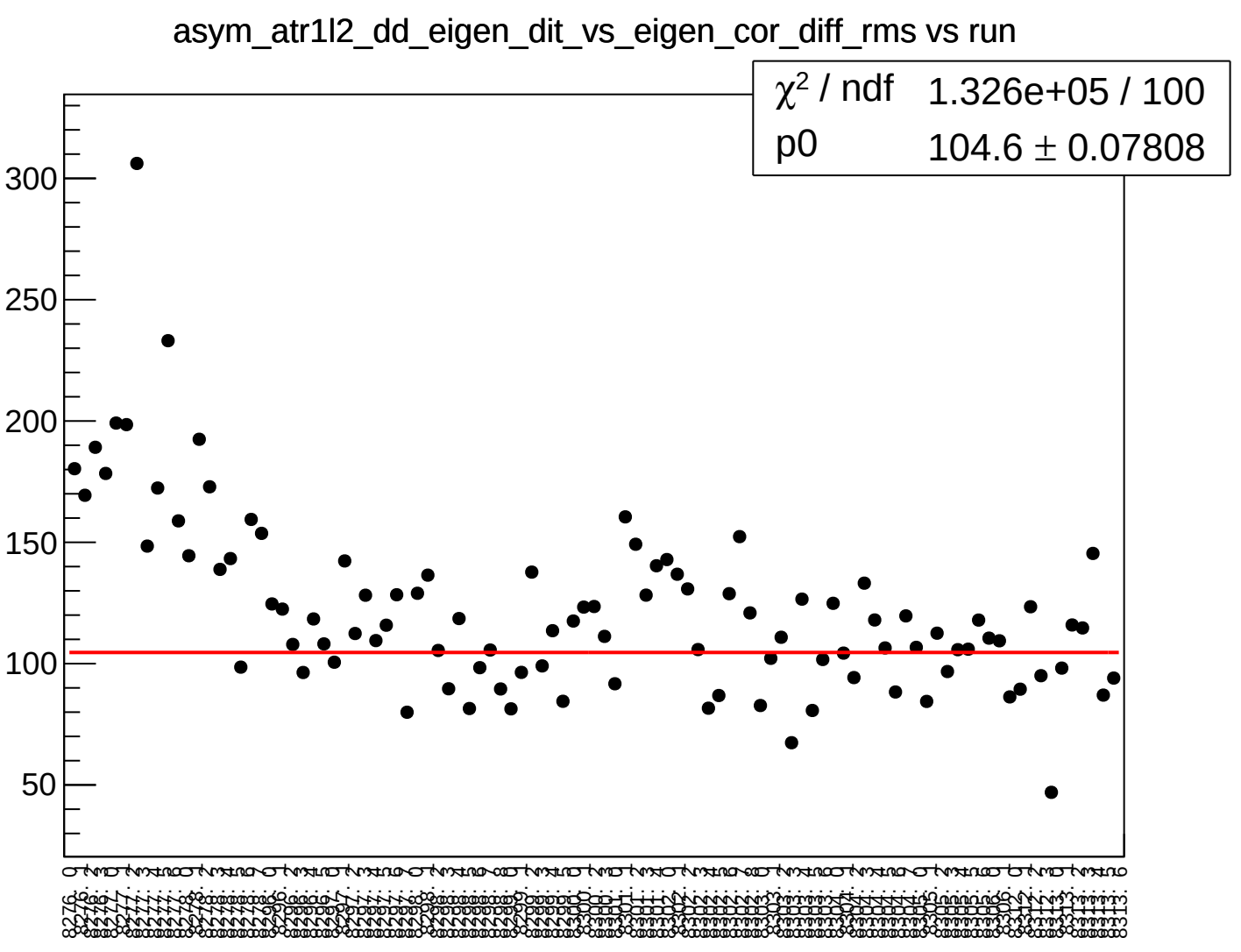

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.2 / 100
p0 0.09707 ± 0.1104
pull
Entries 101
Mean −343.6
Std Dev 0

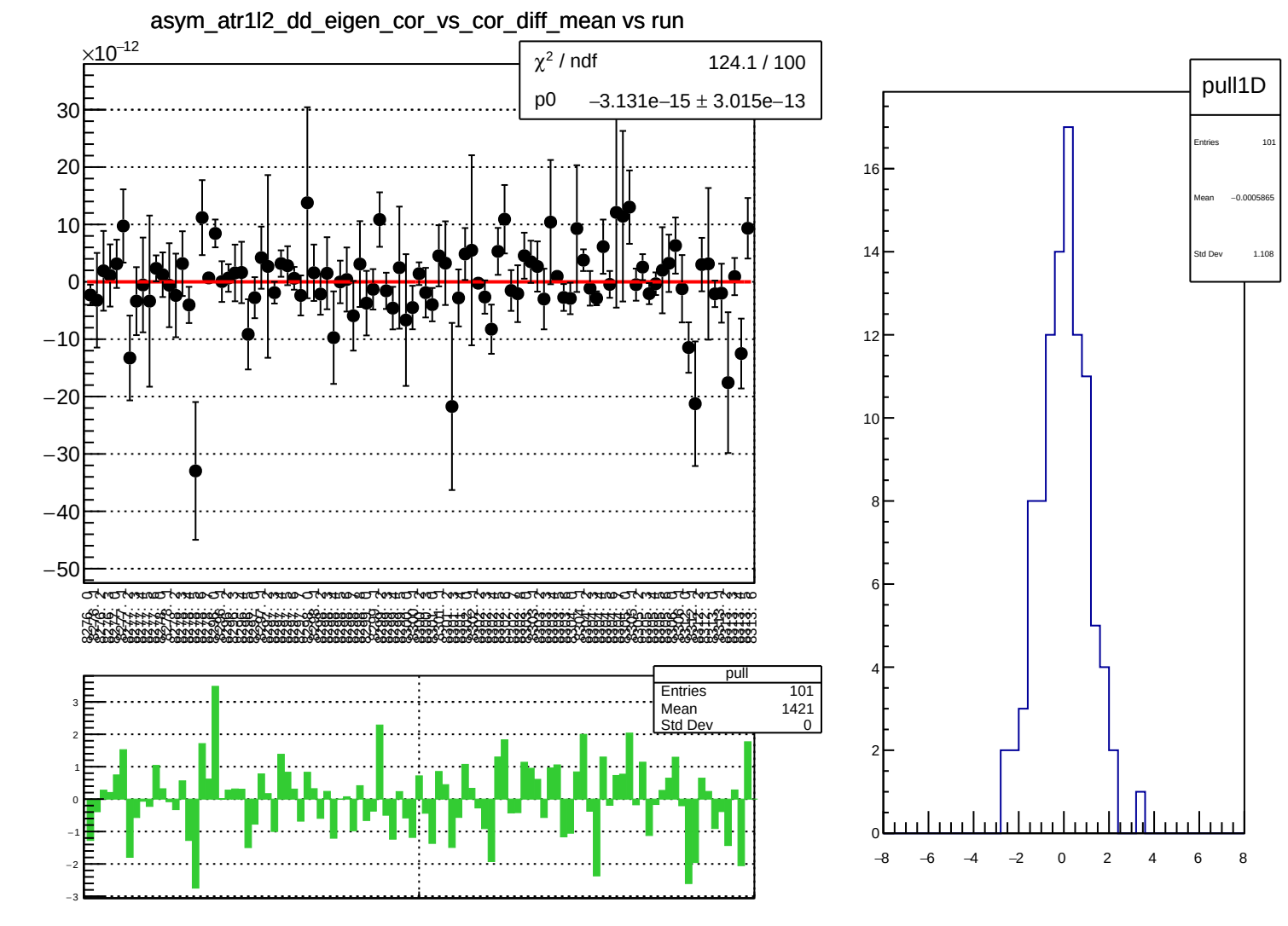

pull1D
Entries 101
Mean −0.005659
Std Dev 1.016

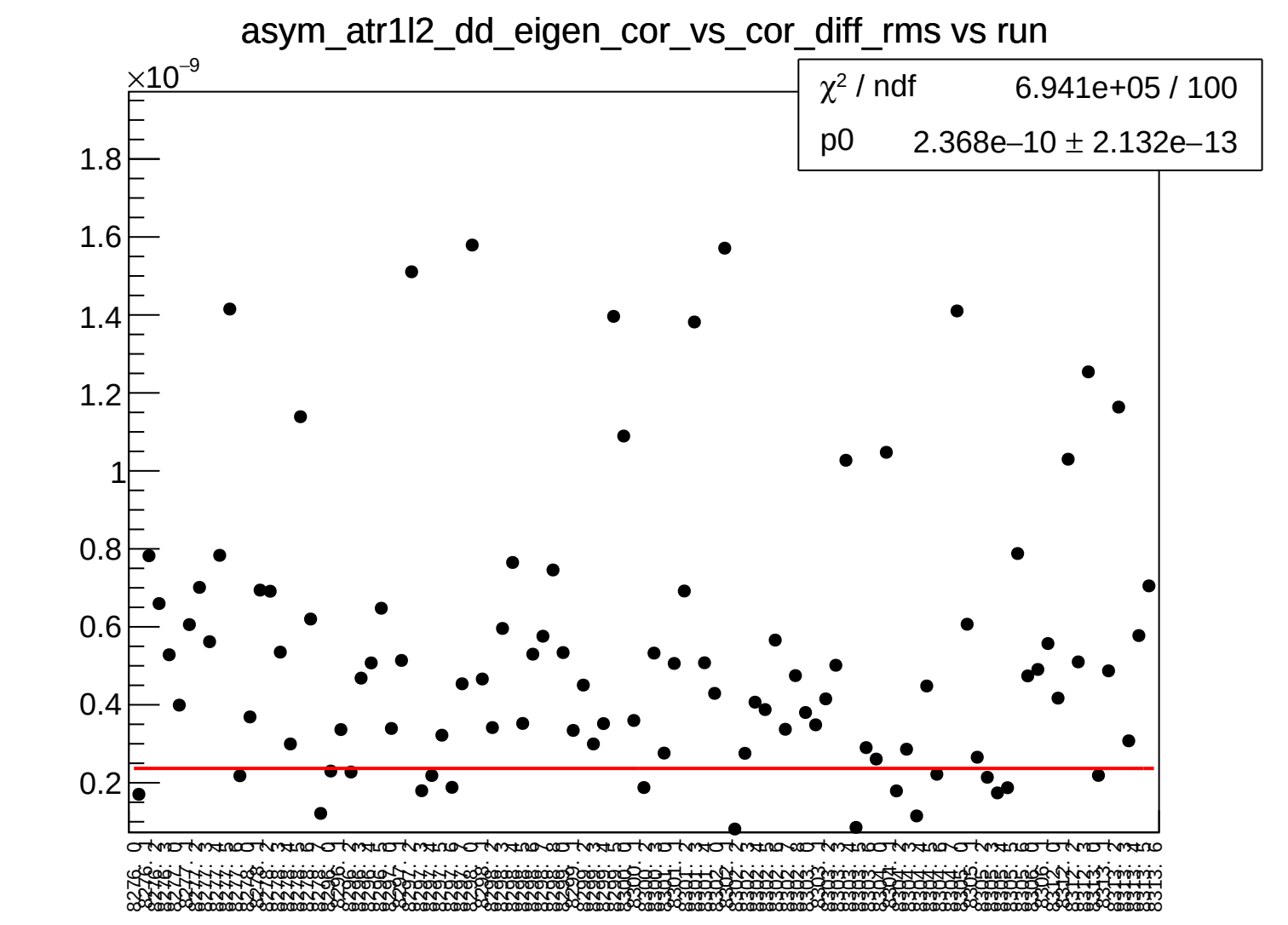

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.326e+05 / 100
p0 104.6 ± 0.07808
300
250
200
150
100
50

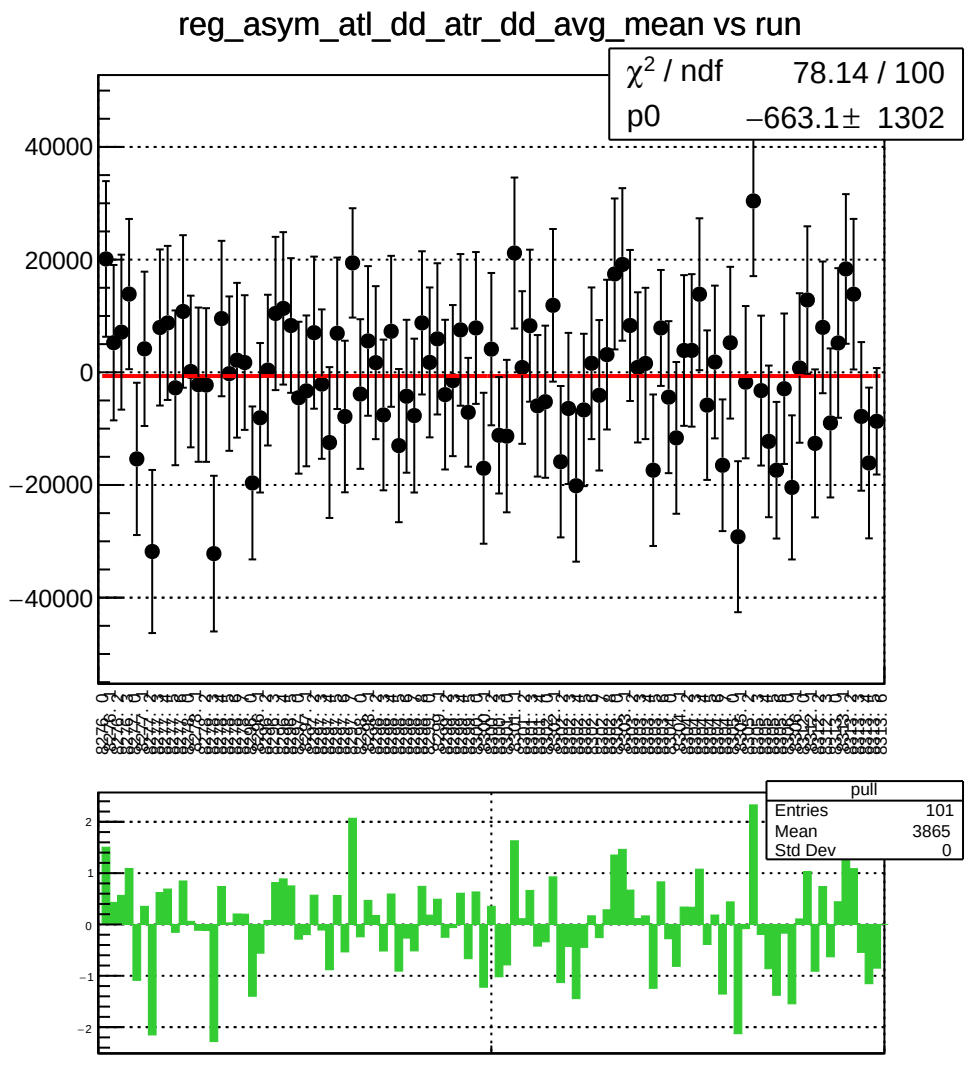

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.2 / 100
p0 0.09707 ± 0.1104
pull
Entries 101
Mean −343.6
Std Dev 0

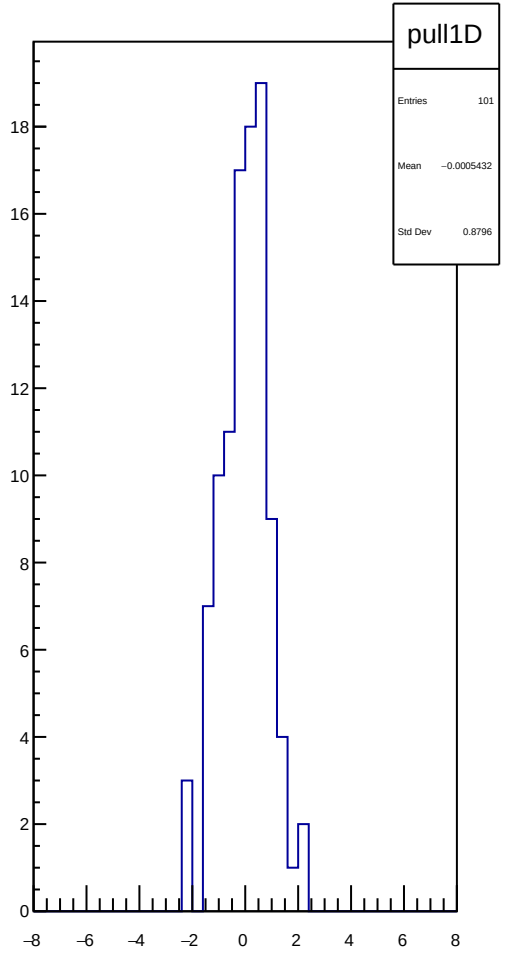

pull1D
Entries 101
Mean −0.005659
Std Dev 1.016

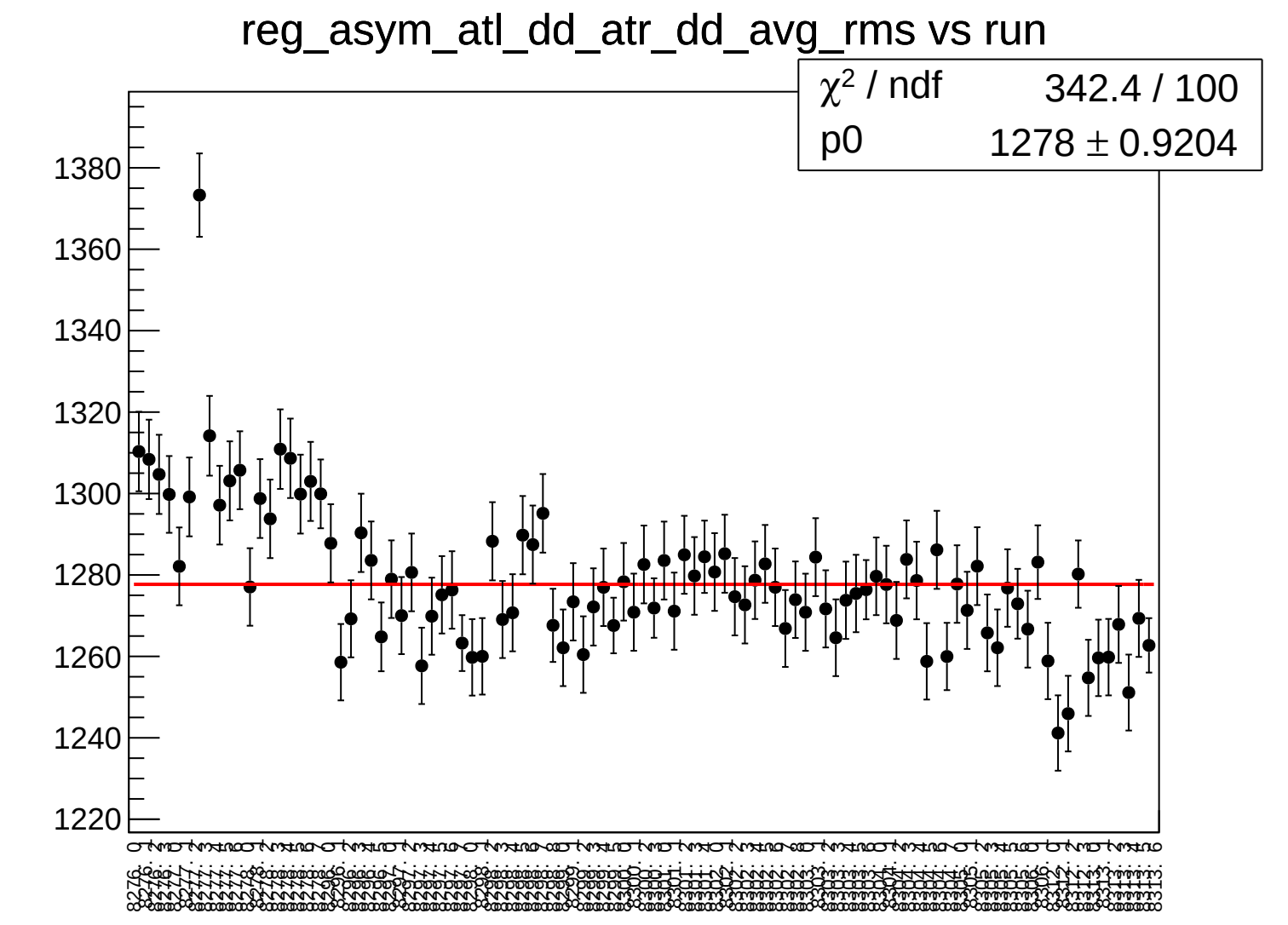

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.326e+05 / 100
p0 104.6 ± 0.07808
300
250
200
150
100
50

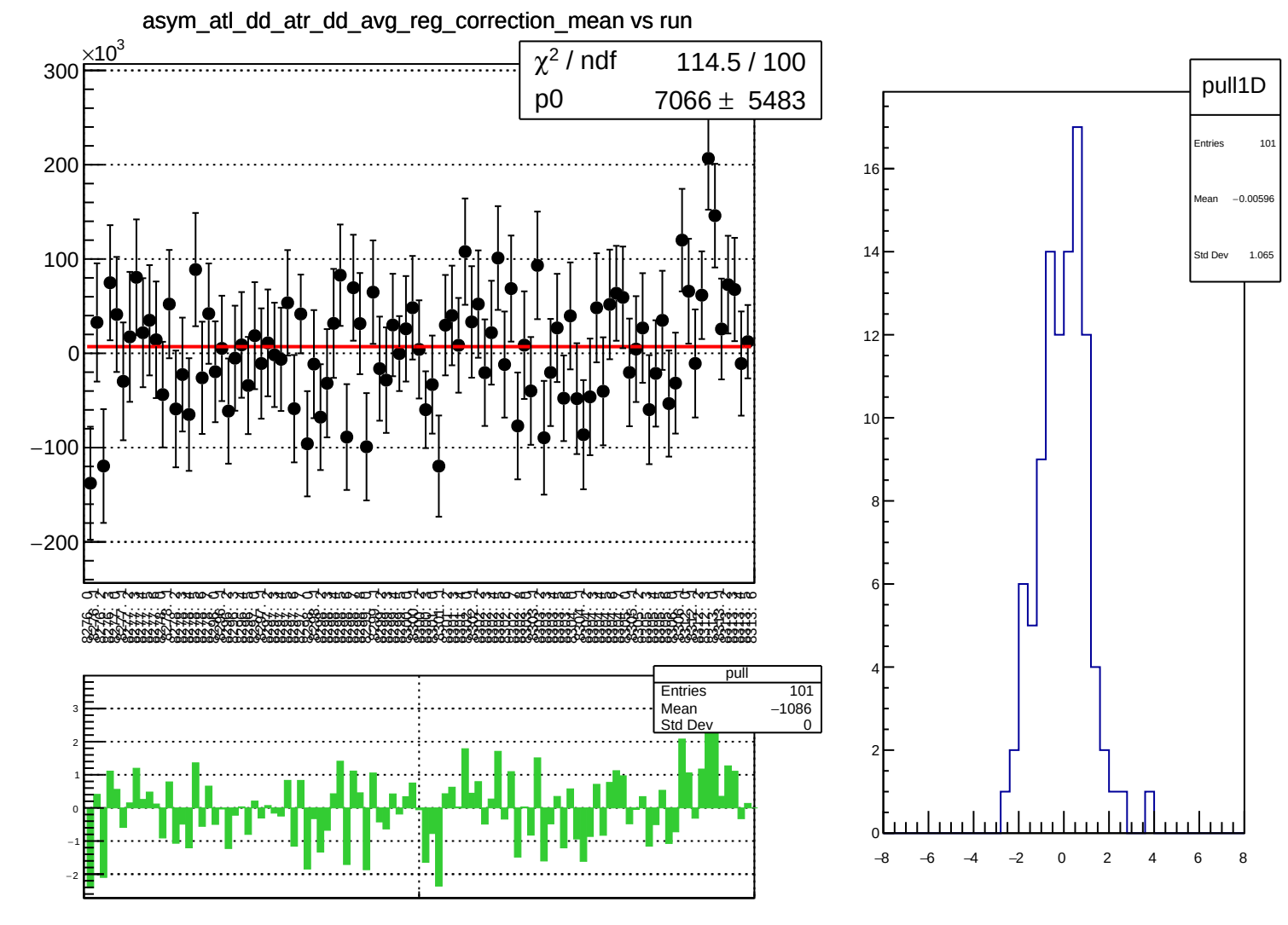

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 124.1 / 100
p0 −3.131e−15 ± 3.015e−13
pull
Entries 101
Mean 1421
Std Dev 0
pull1D
Entries 101
Mean −0.0005865
Std Dev 1.108

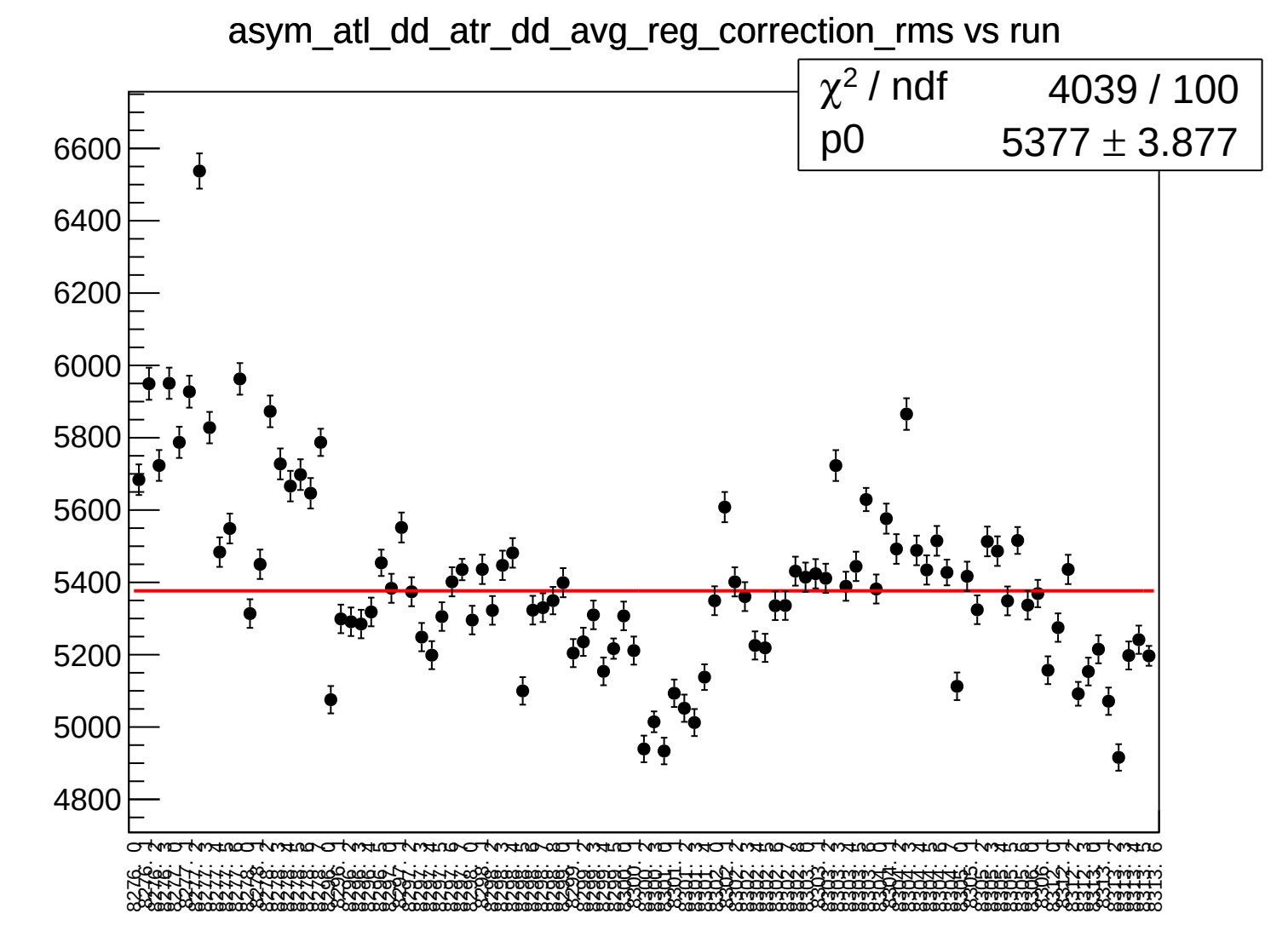

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.941e+05 / 100
p0 2.368e−10 ± 2.132e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

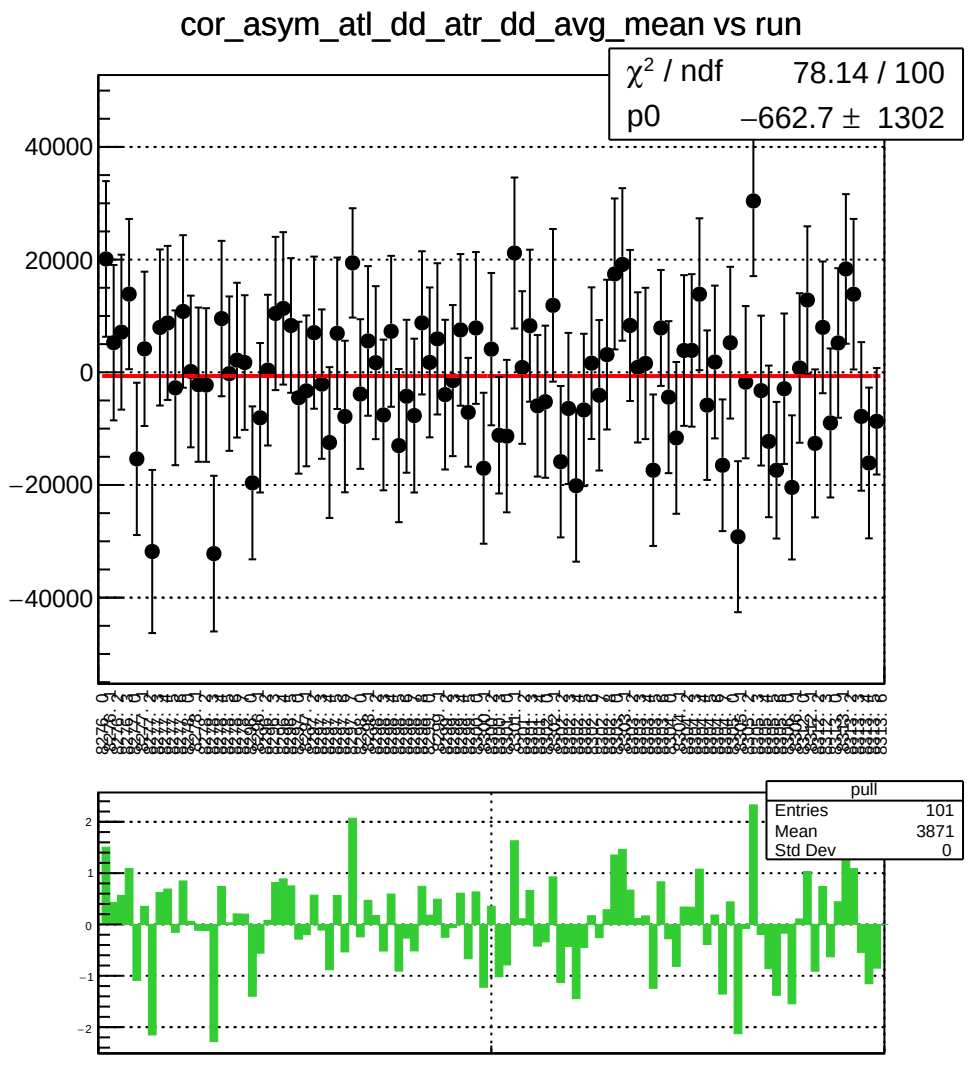

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 78.14 / 100
p0 −663.1± 1302
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 3865
Std Dev 0
2
1
0
−1
−2

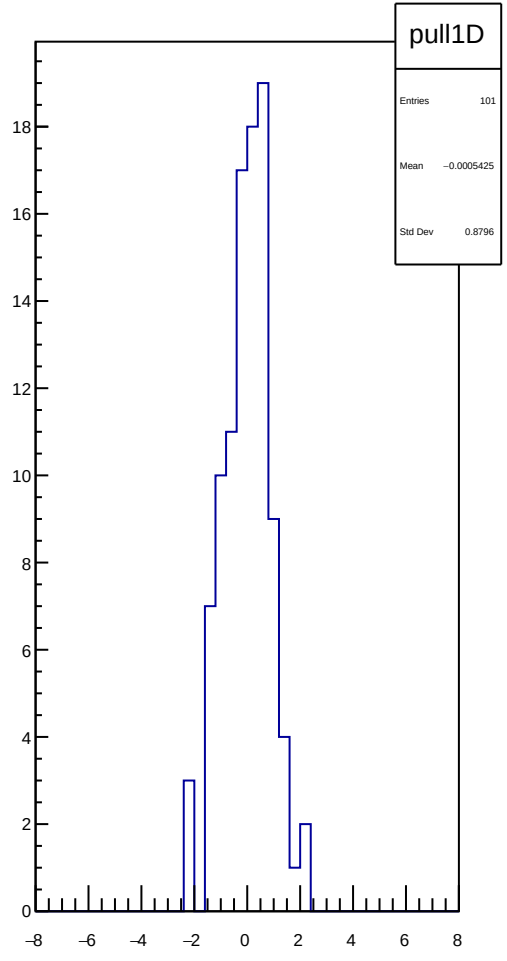

pull1D
Entries 101
Mean −0.0005432
Std Dev 0.8796
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

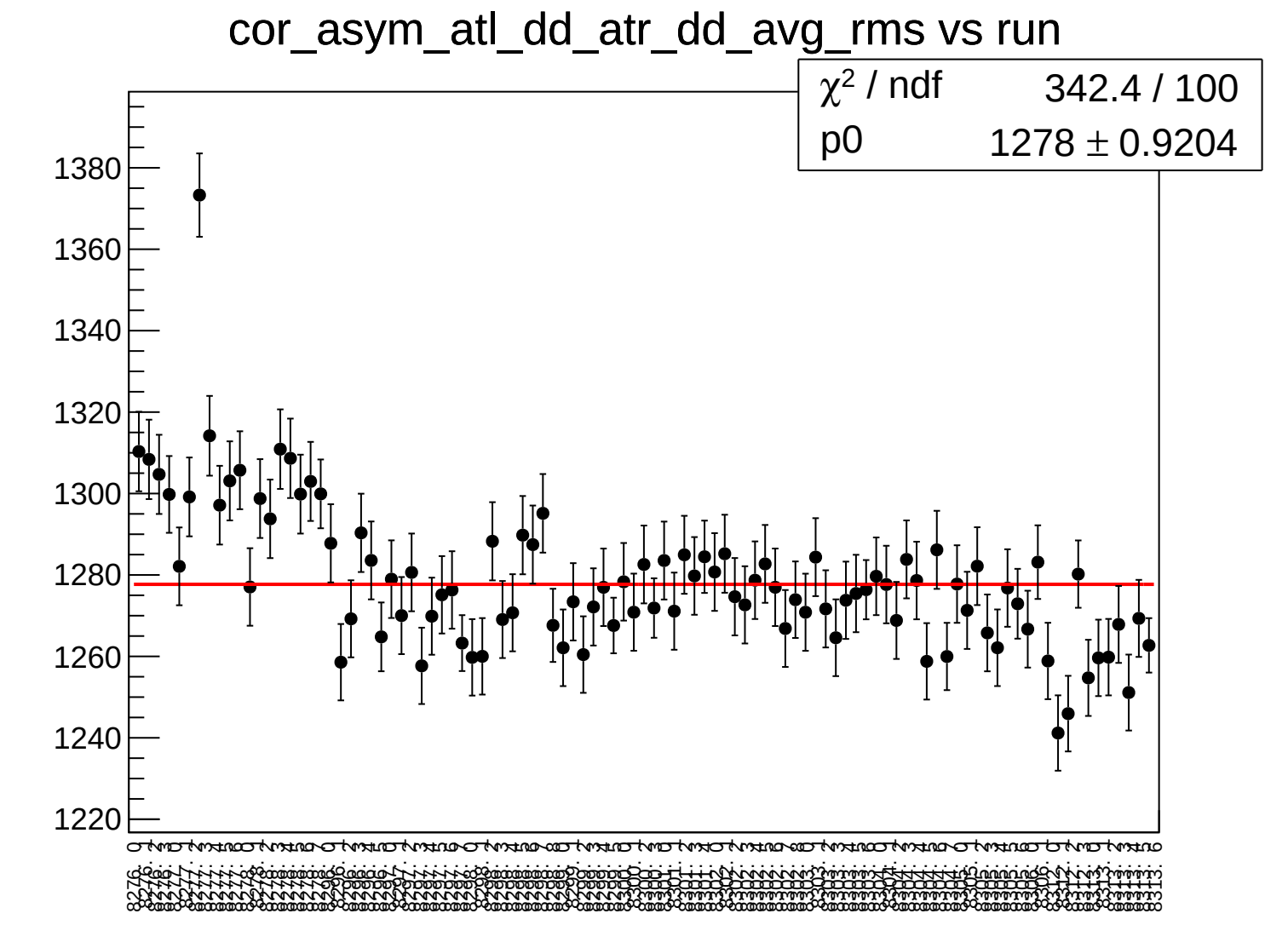

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 342.4 / 100
p0 1278 ± 0.9204
1380
1360
1340
1320
1300
1280
1260
1240
1220

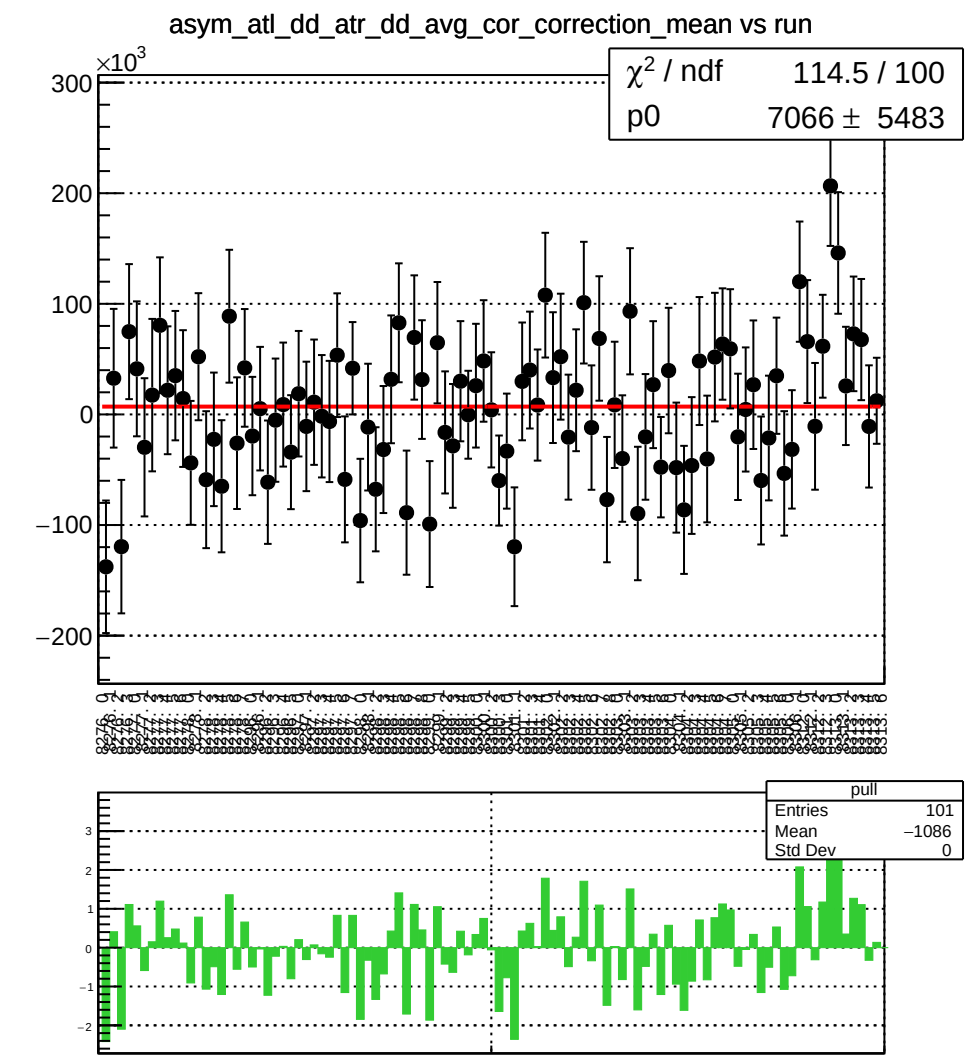

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 114.5 / 100
p0 7066 ± 5483
pull
Entries 101
Mean −1086
Std Dev 0
pull1D
Entries 101
Mean −0.00596
Std Dev 1.065

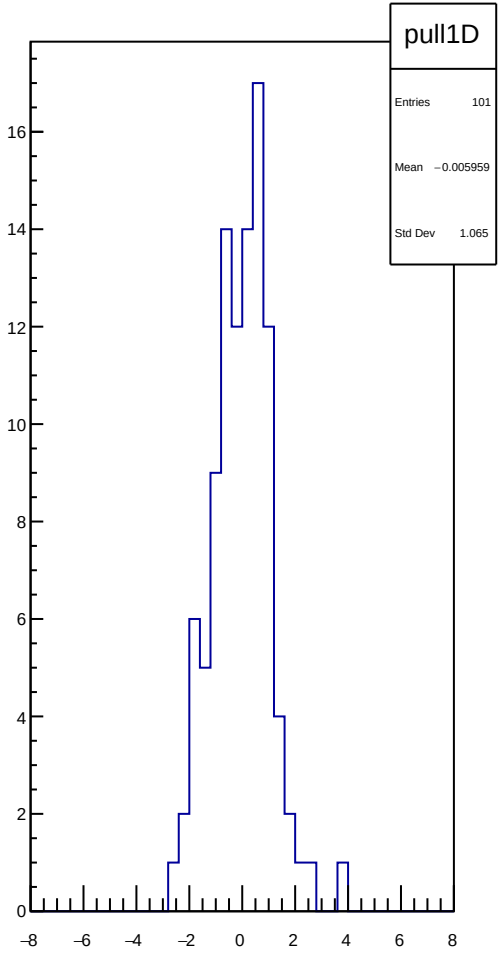

asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 4039 / 100
p0 5377 ± 3.877
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800

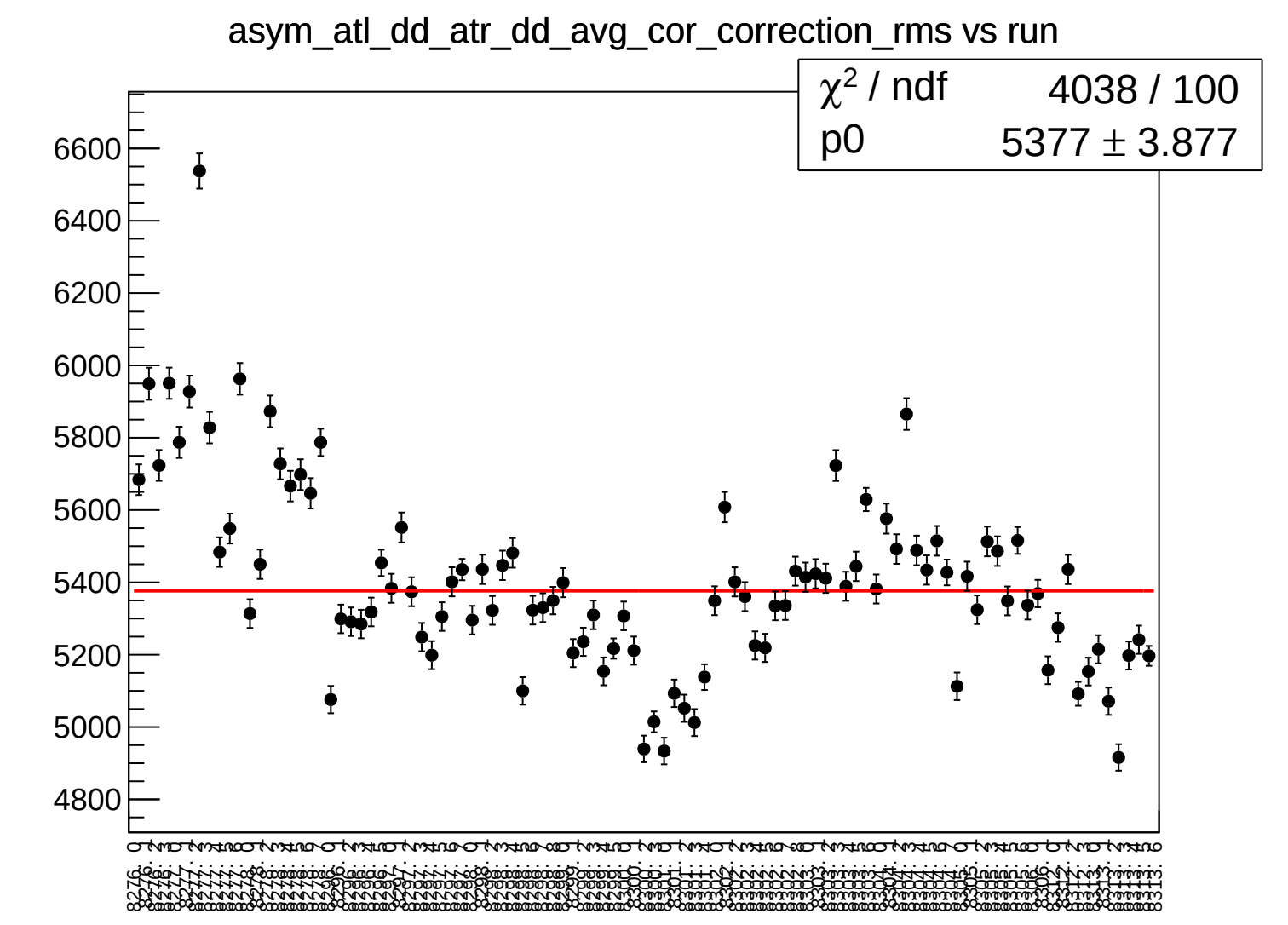

cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 78.14 / 100
p0 −662.7 ± 1302
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 3871
Std Dev 0
2
1
0
−1
−2

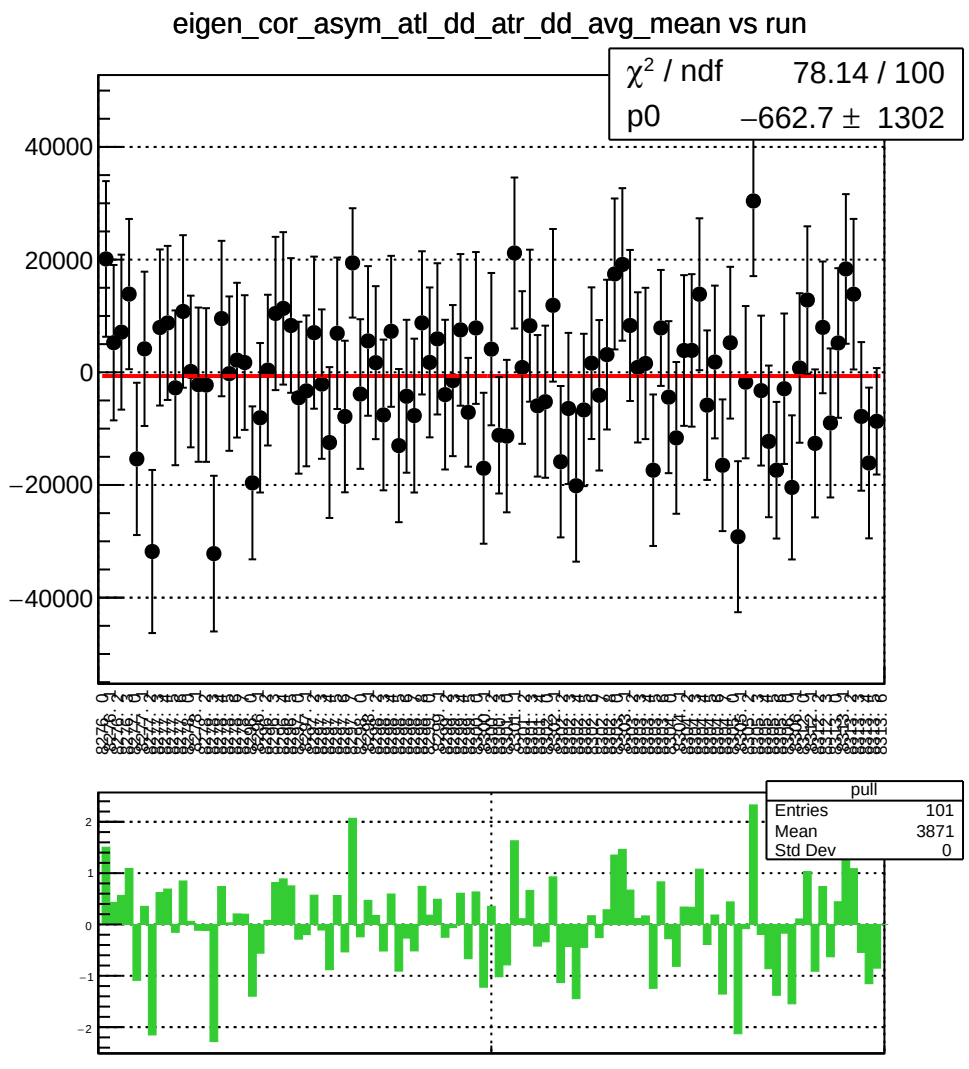

pull1D
Entries 101
Mean −0.0005425
Std Dev 0.8796
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

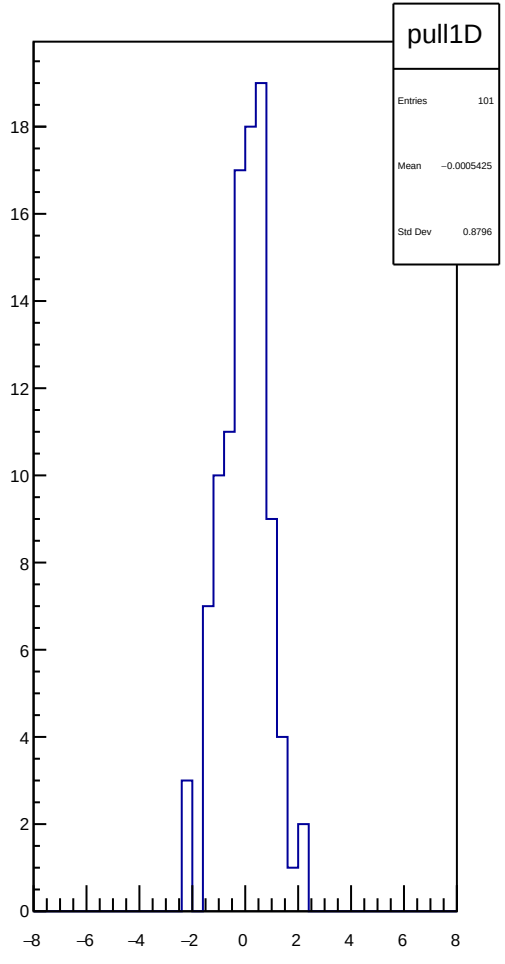

cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 342.4 / 100
p0 1278 ± 0.9204
1380
1360
1340
1320
1300
1280
1260
1240
1220

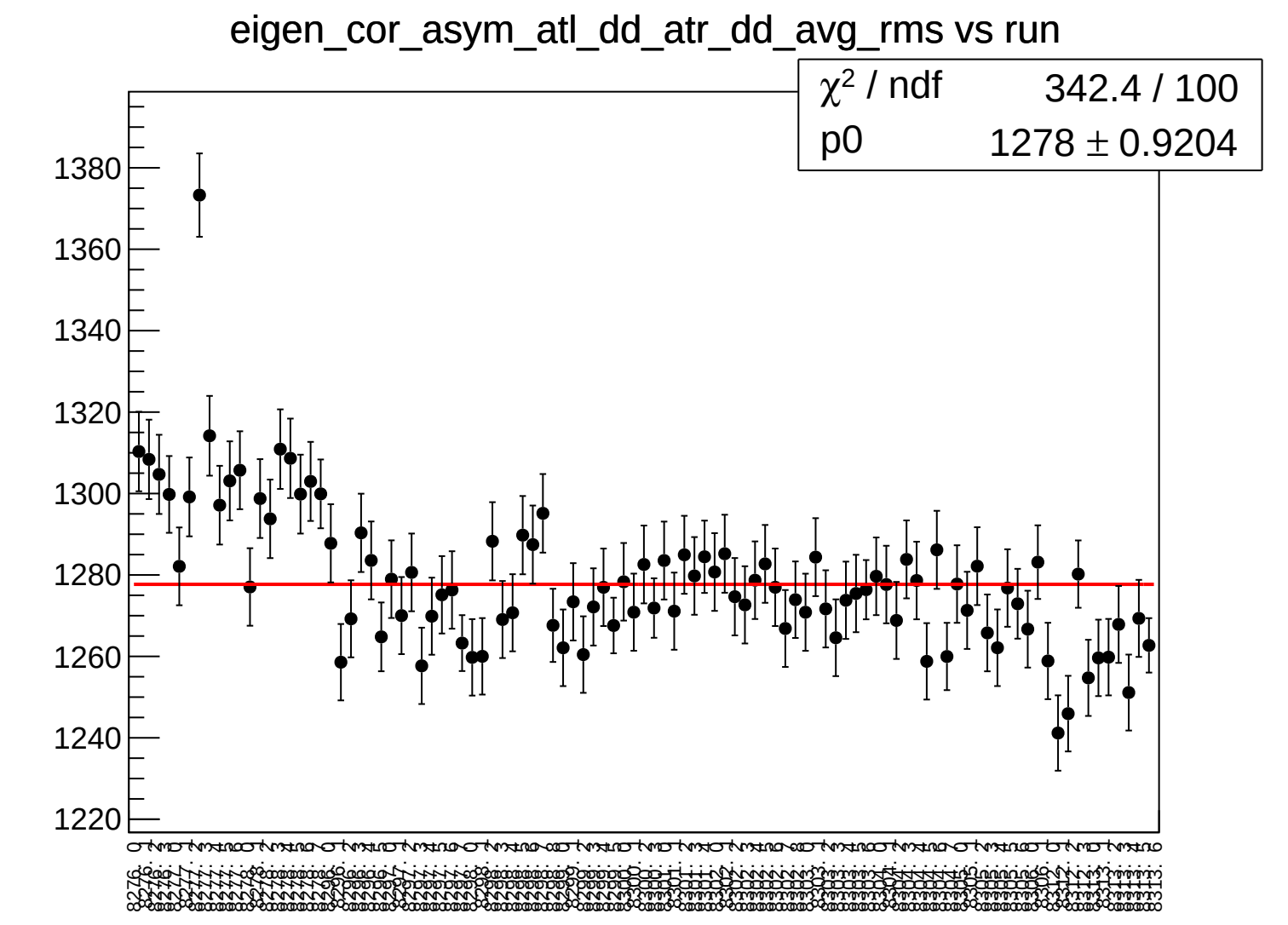

asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 114.5 / 100
p0 7066 ± 5483
300
200
100
0
−100
−200
pull
Entries 101
Mean −1086
Std Dev 0
3
2
1
0
−1
−2

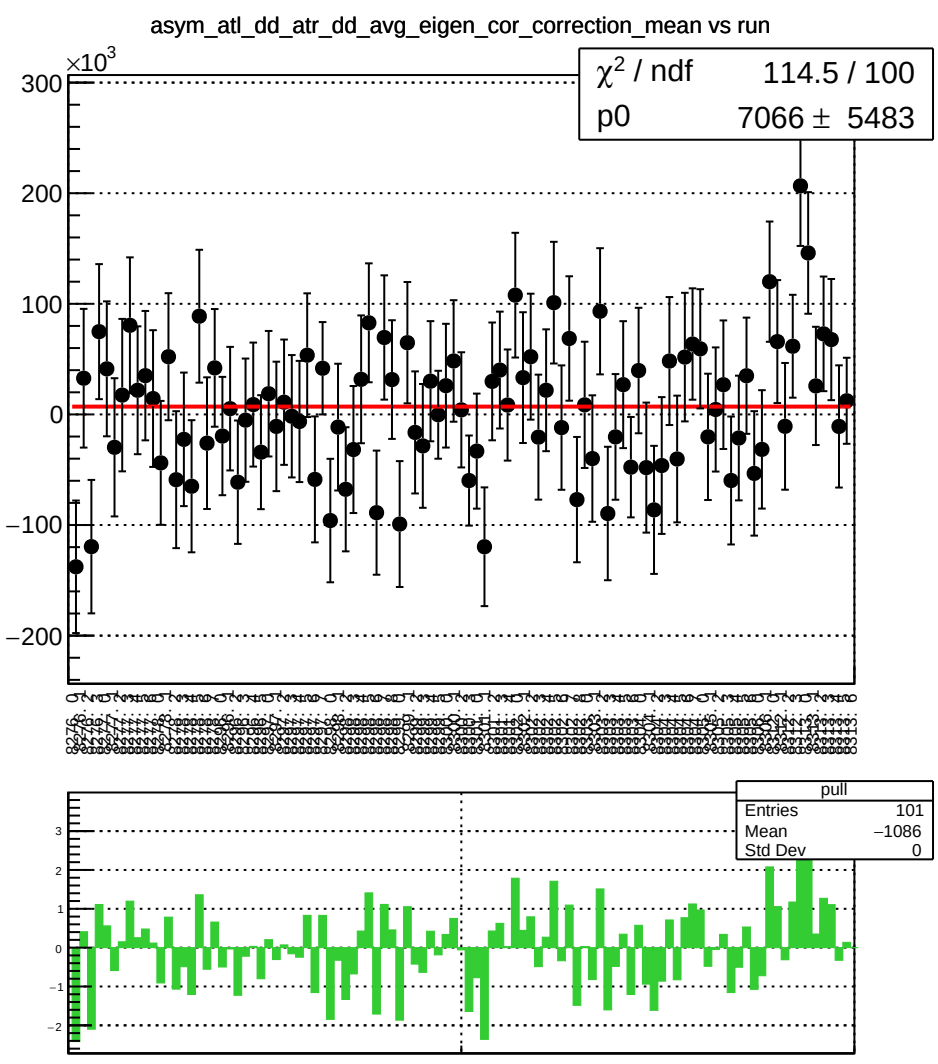

pull1D
Entries 101
Mean −0.005959
Std Dev 1.065
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

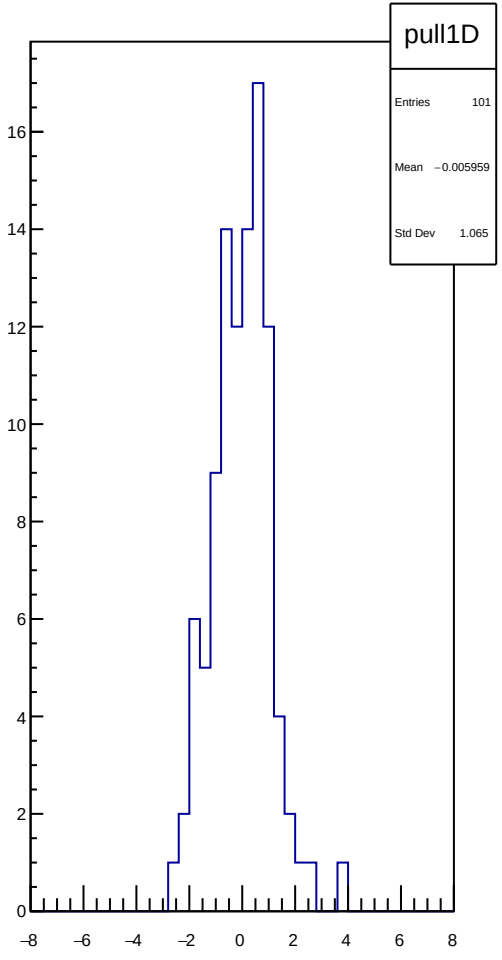

asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ² / ndf 4038 / 100
p0 5377 ± 3.877
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800

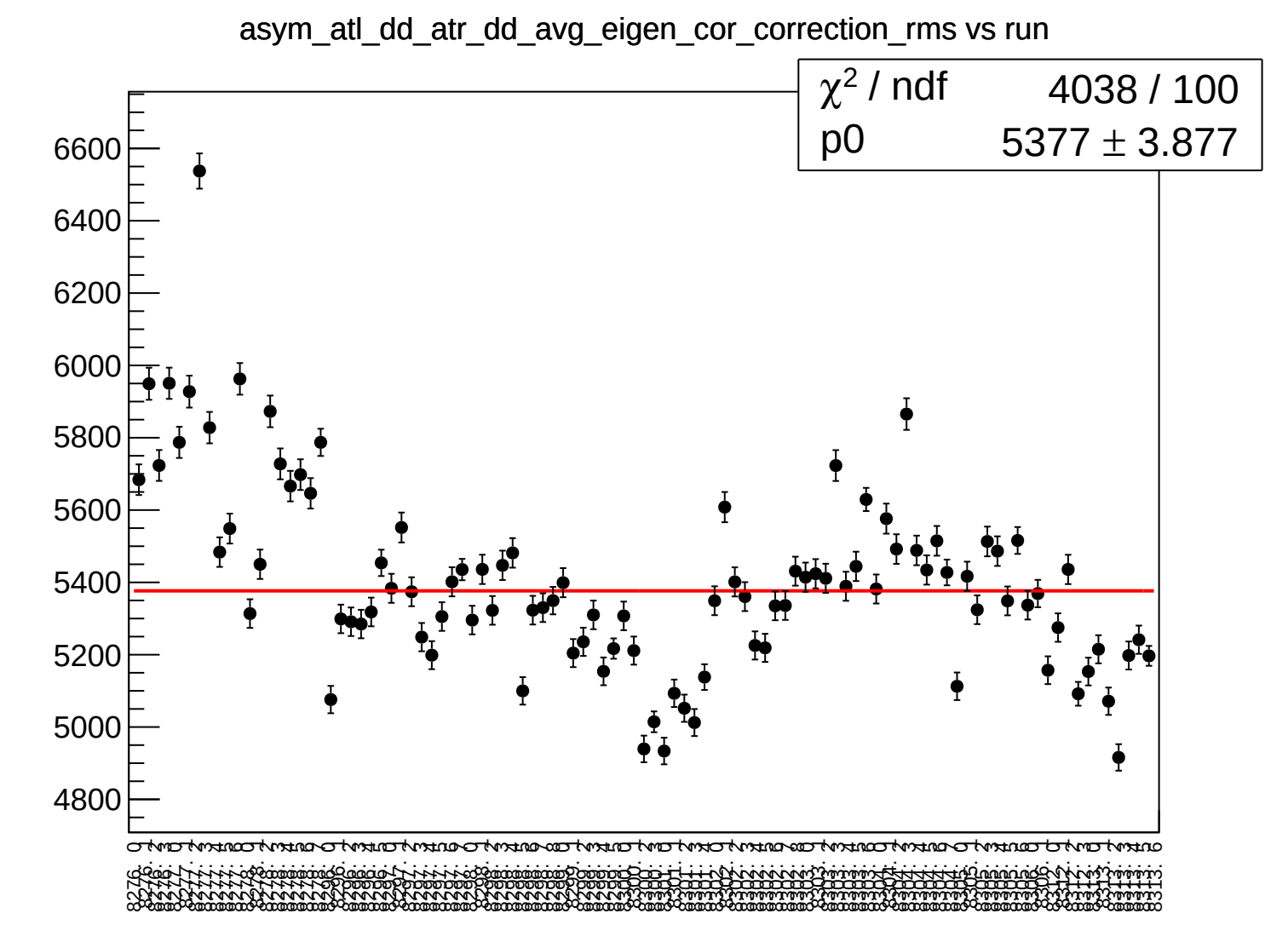

eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 78.14 / 100
p0 −662.7 ± 1302
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 3871
Std Dev 0
2
1
0
−1
−2

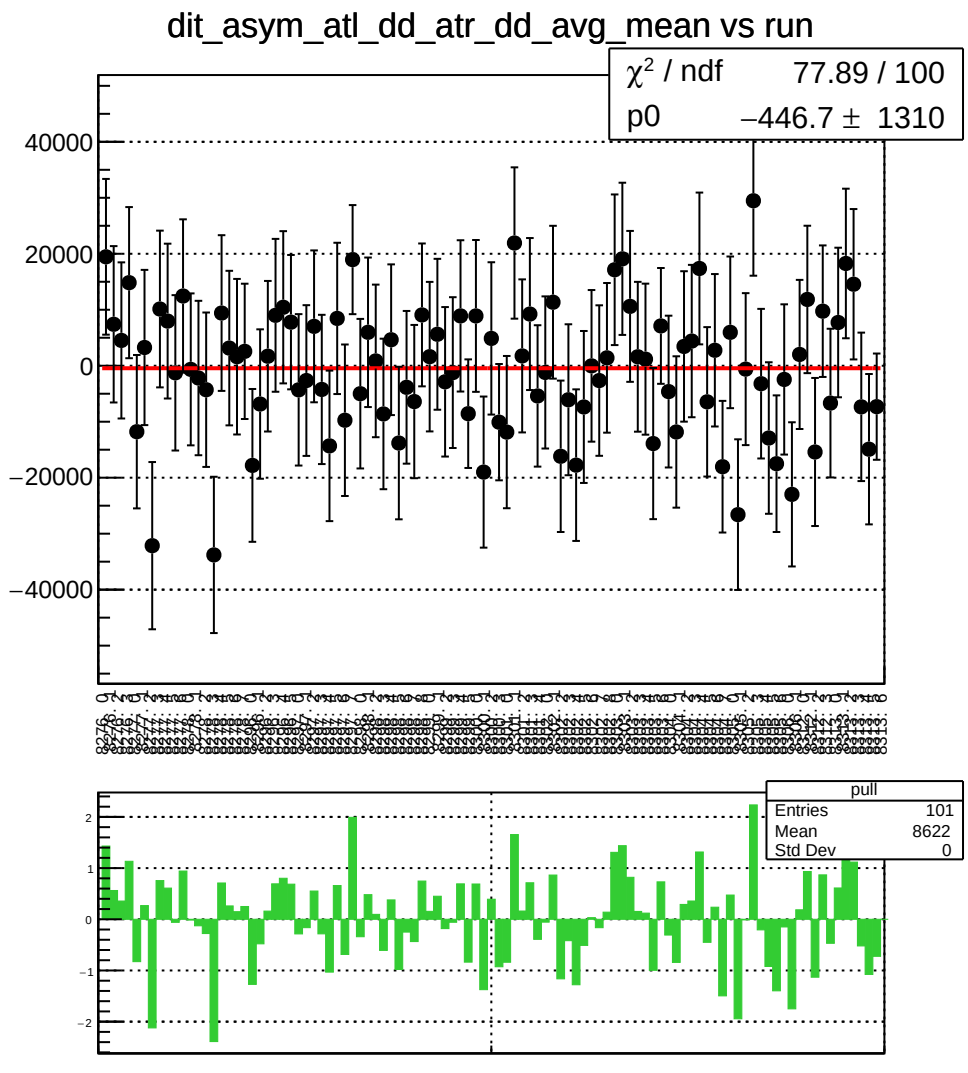

pull1D
Entries 101
Mean −0.0005425
Std Dev 0.8796
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

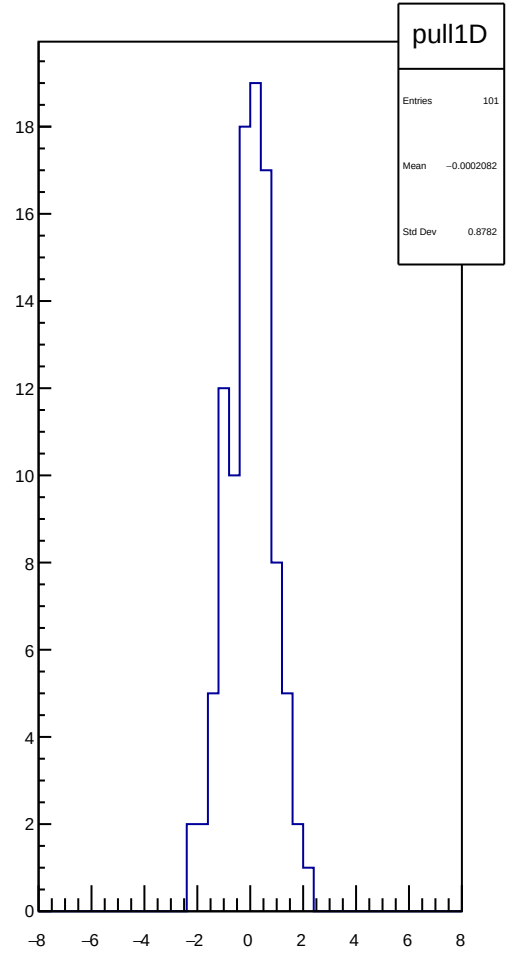

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 342.4 / 100
p0 1278 ± 0.9204
1380
1360
1340
1320
1300
1280
1260
1240
1220

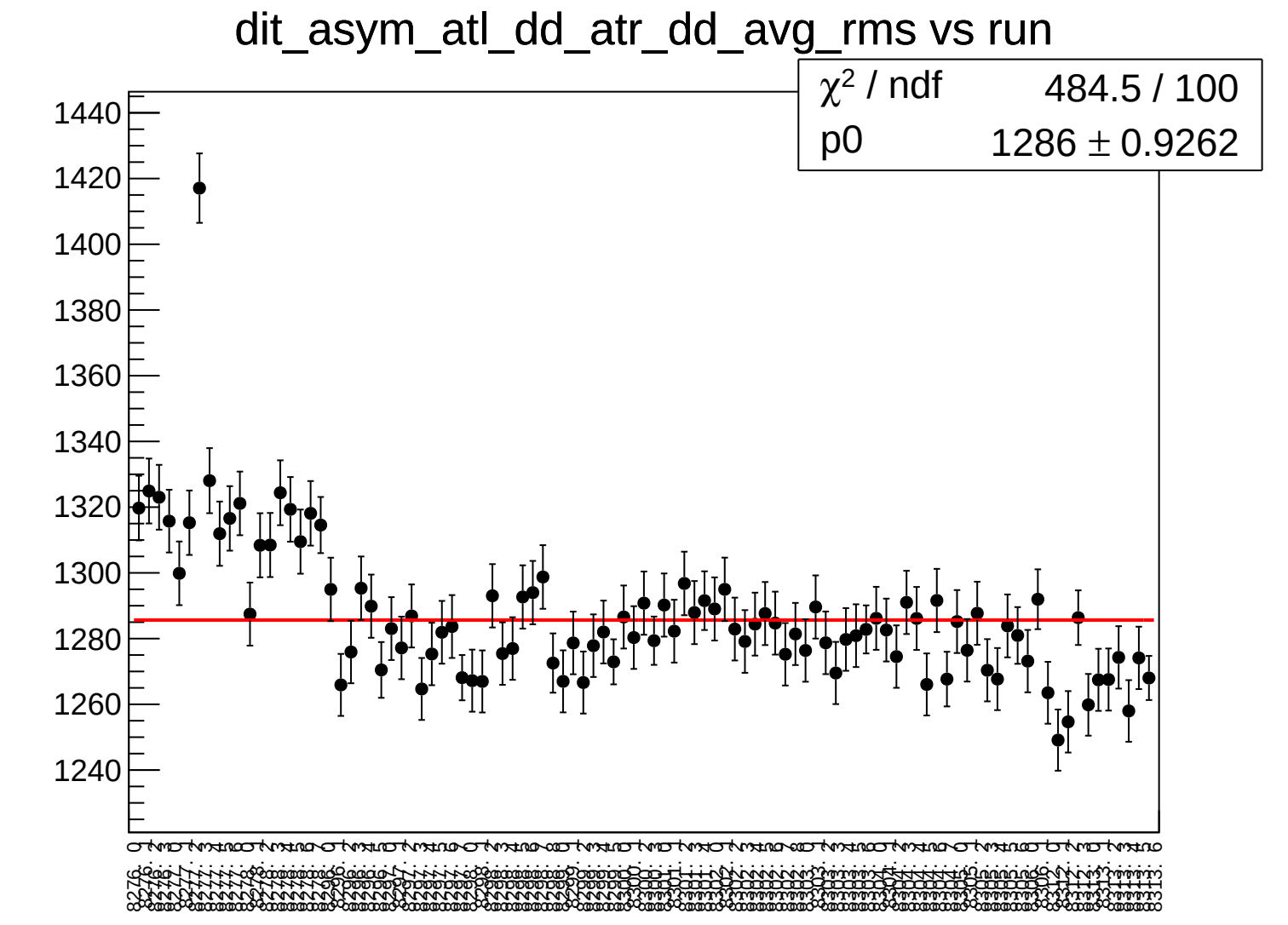

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 114.5 / 100
p0 7066 ± 5483
pull
Entries 101
Mean −1086
Std Dev 0

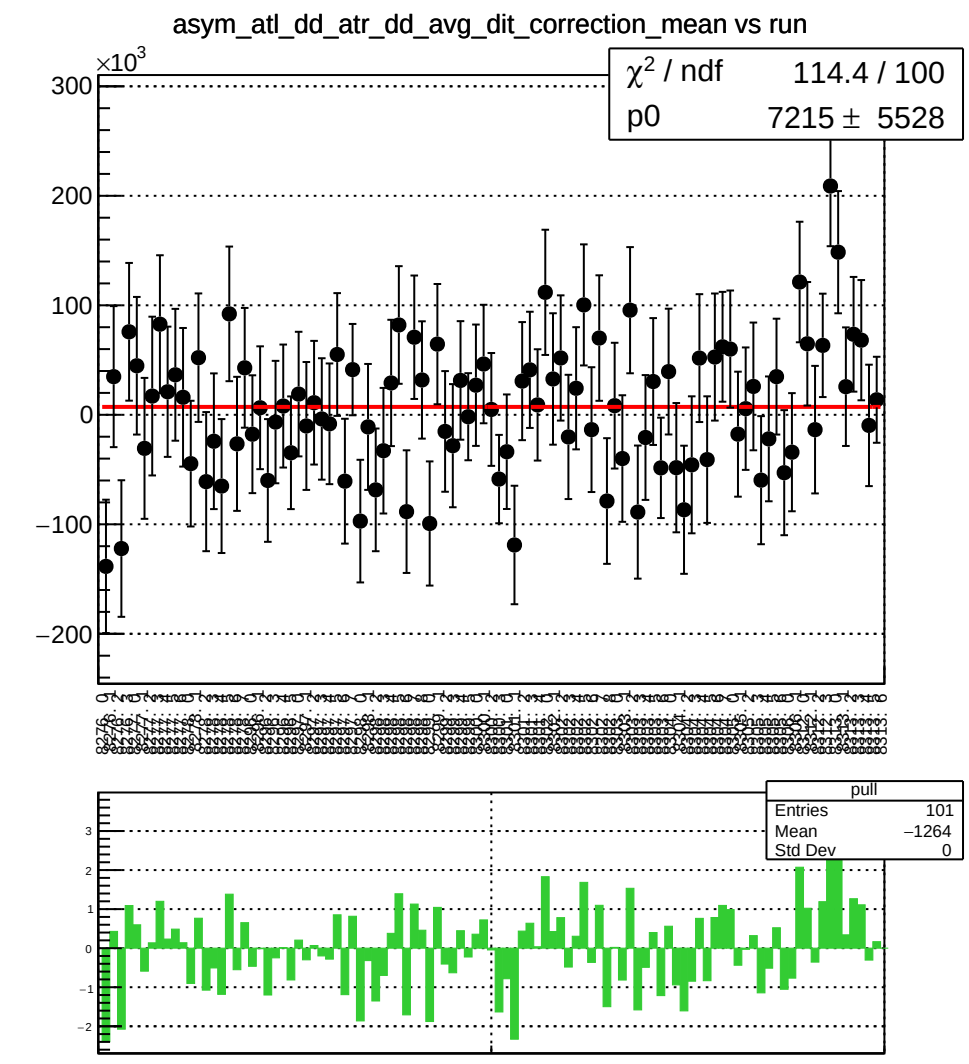

pull1D
Entries 101
Mean −0.005959
Std Dev 1.065

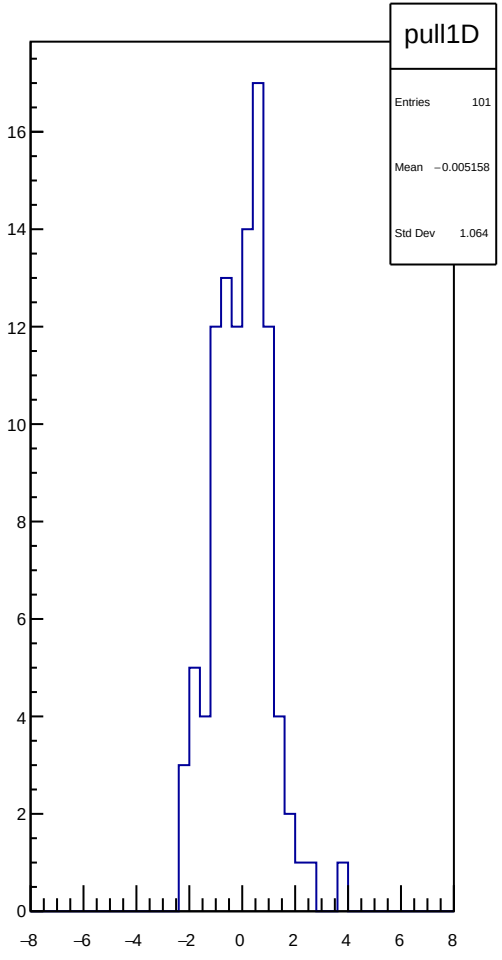

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 4038 / 100
p0 5377 ± 3.877
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800

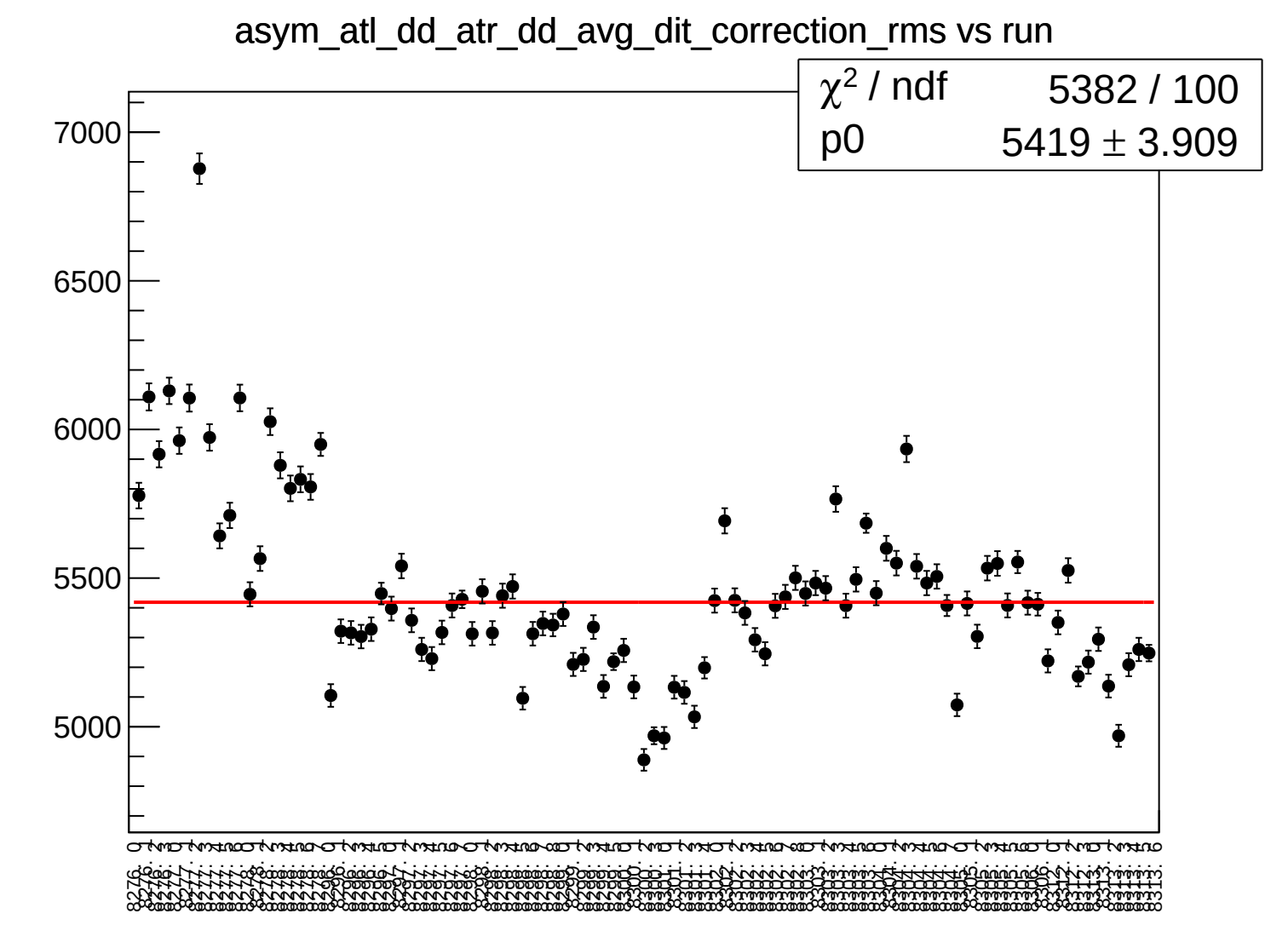

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 77.89 / 100
p0 −446.7 ± 1310
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 8622
Std Dev 0
2
1
0
−1
−2

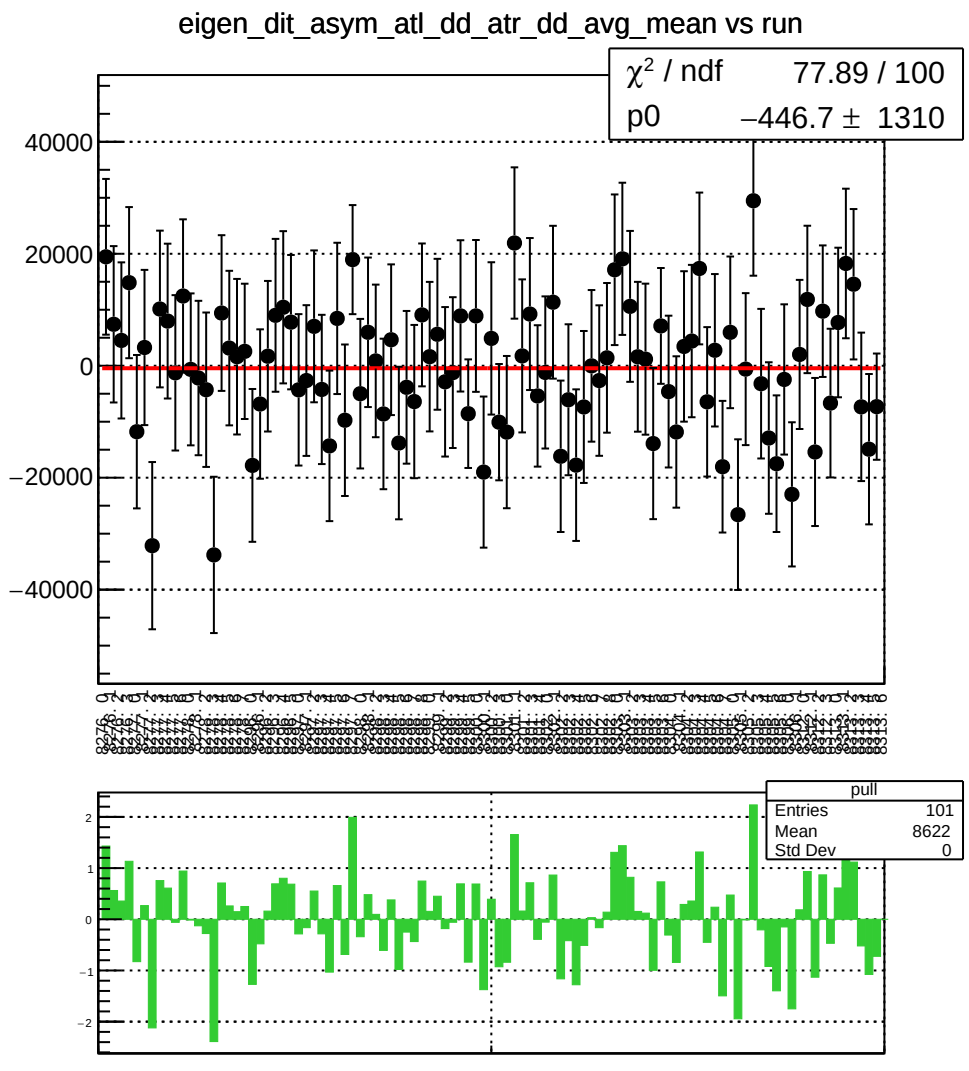

pull1D
Entries 101
Mean −0.0002082
Std Dev 0.8782
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

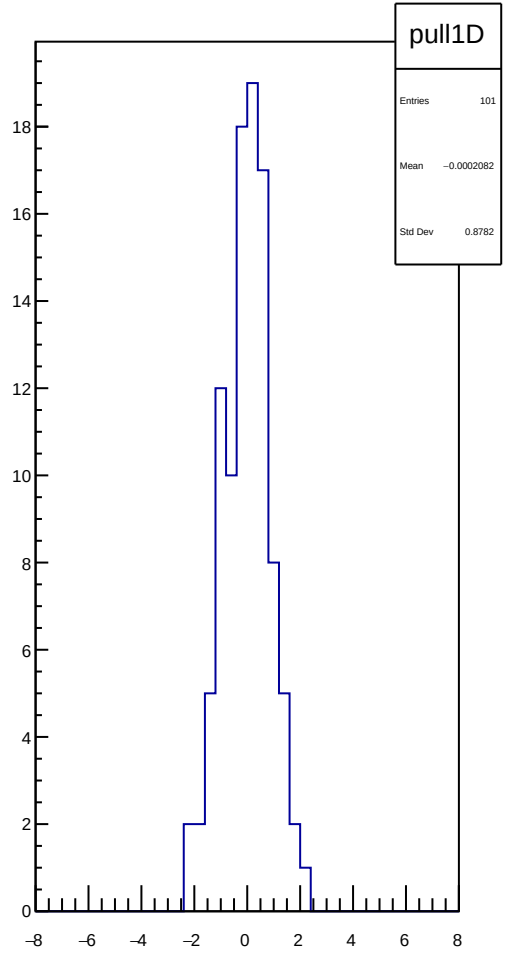

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 484.5 / 100
p0 1286 ± 0.9262
1440
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240

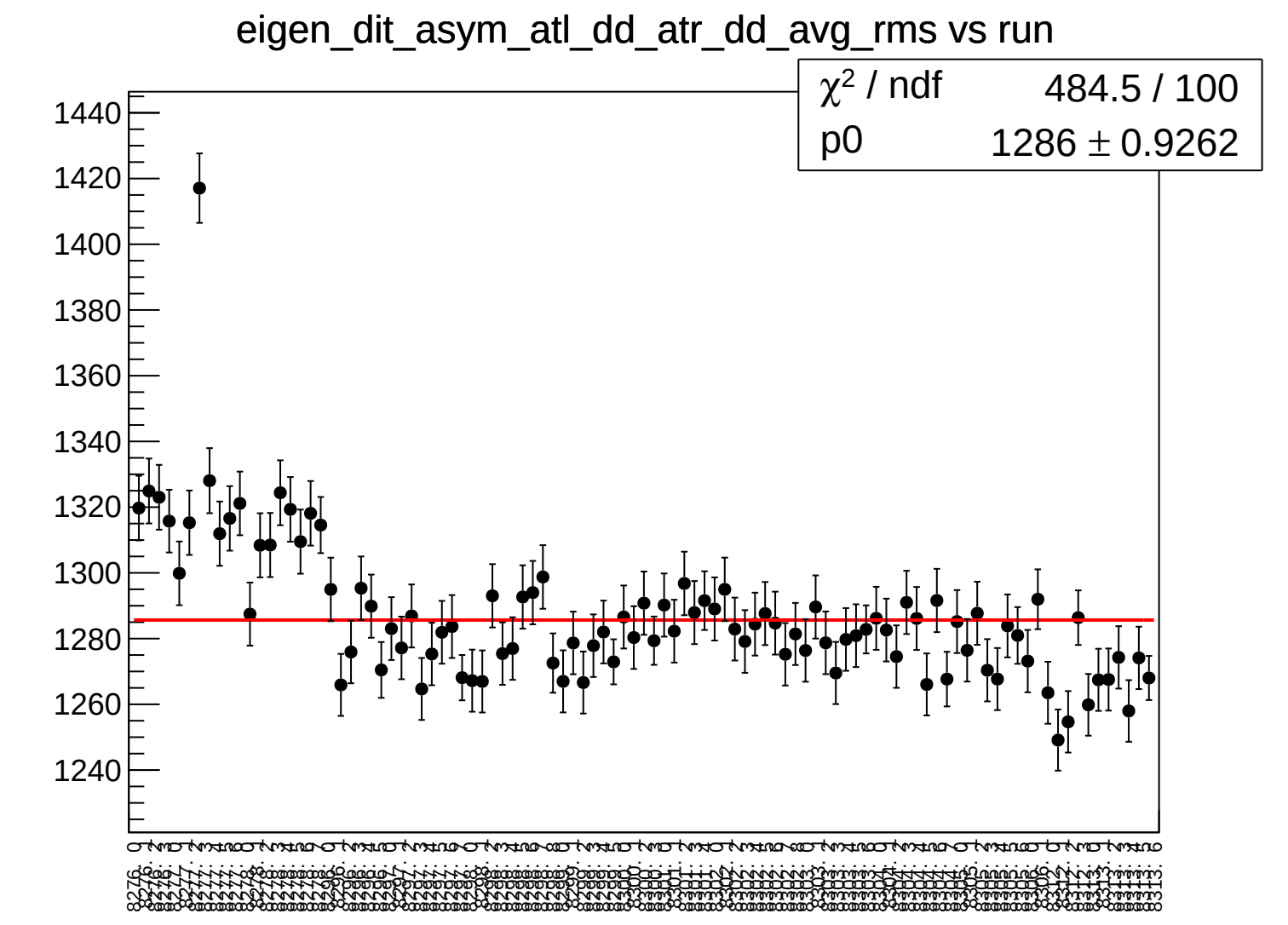

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 114.4 / 100
p0 7215 ± 5528
pull
Entries 101
Mean −1264
Std Dev 0

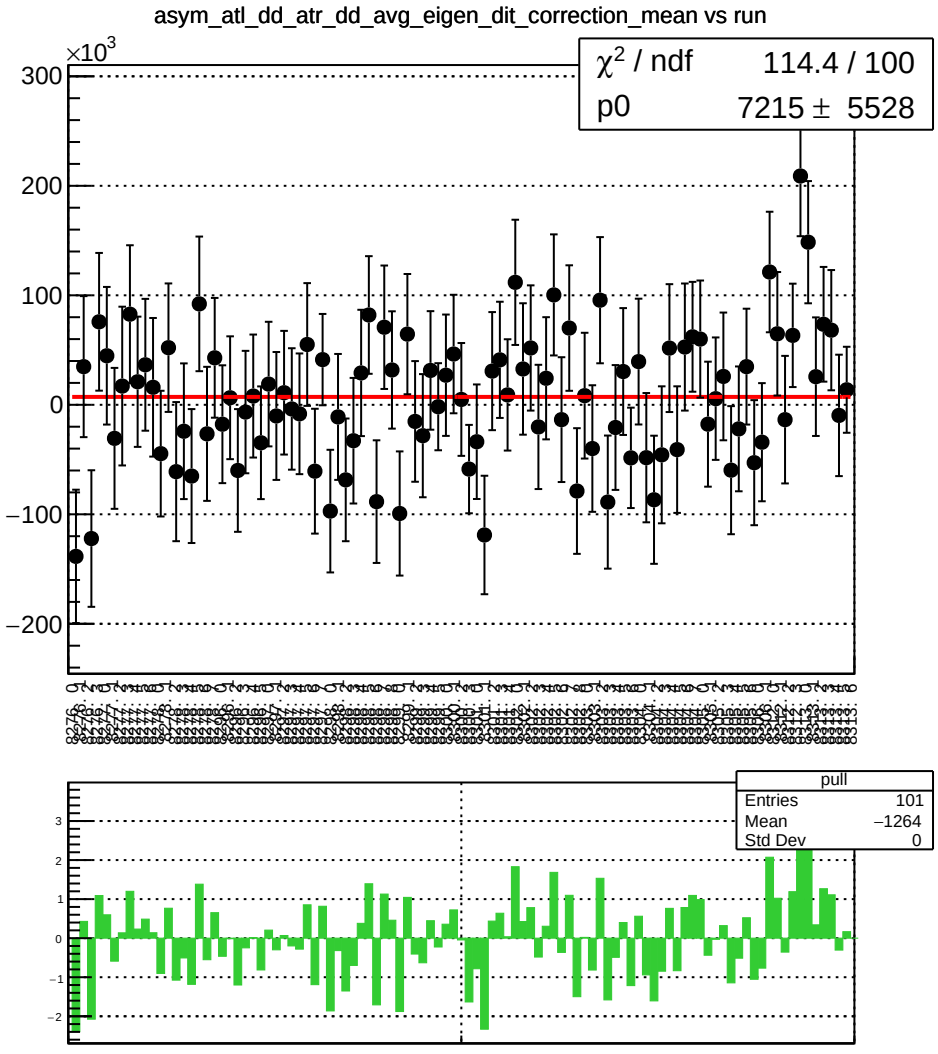

pull1D
Entries 101
Mean −0.005158
Std Dev 1.064

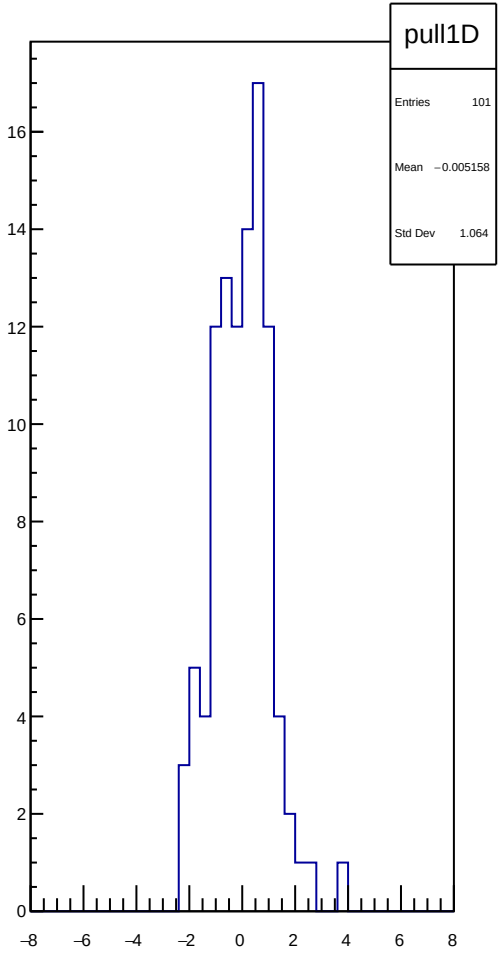

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 5382 / 100
p0 5419 ± 3.909
7000
6500
6000
5500
5000

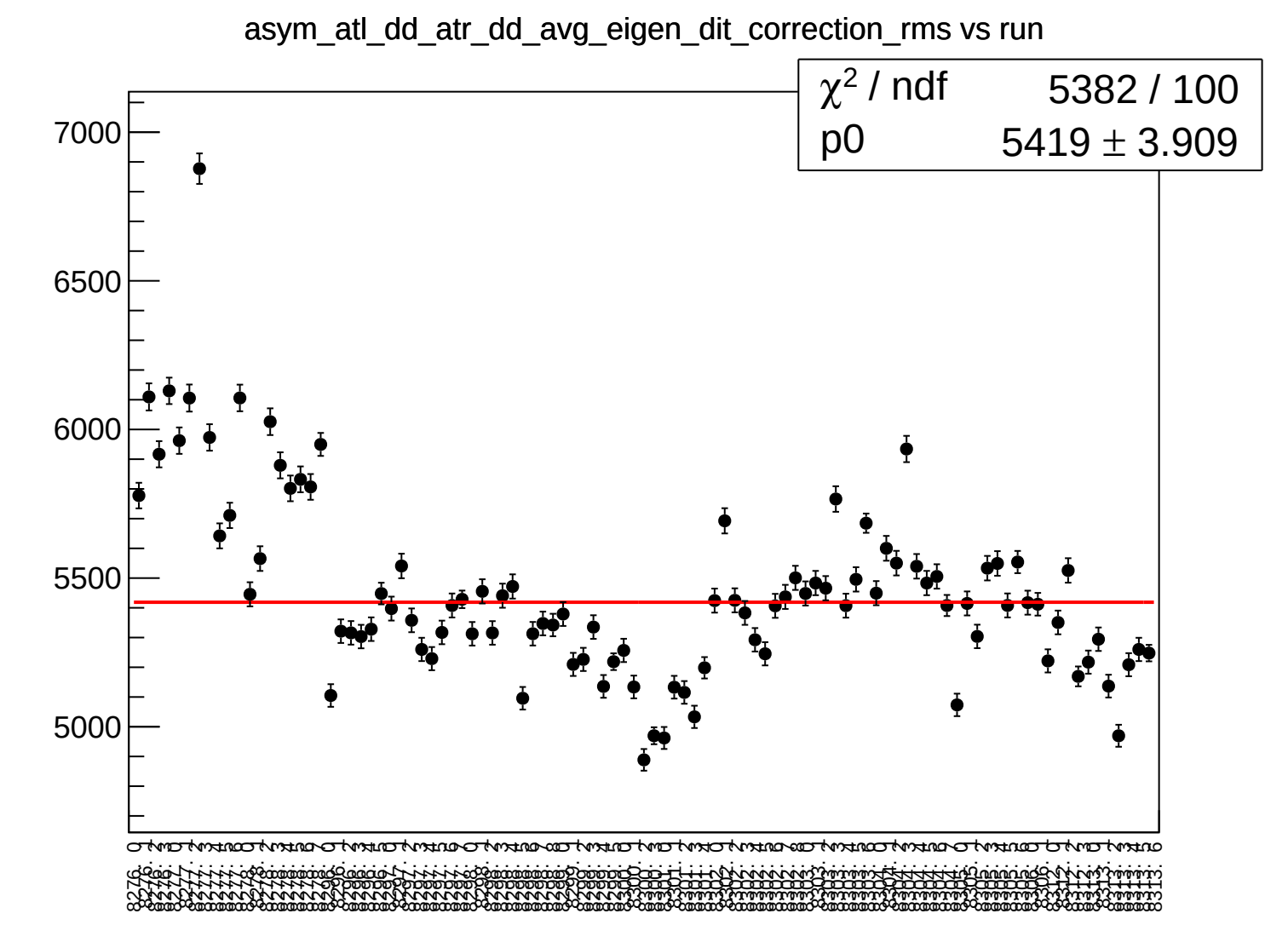

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 77.89 / 100
p0 −446.7 ± 1310
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 8622
Std Dev 0
2
1
0
−1
−2

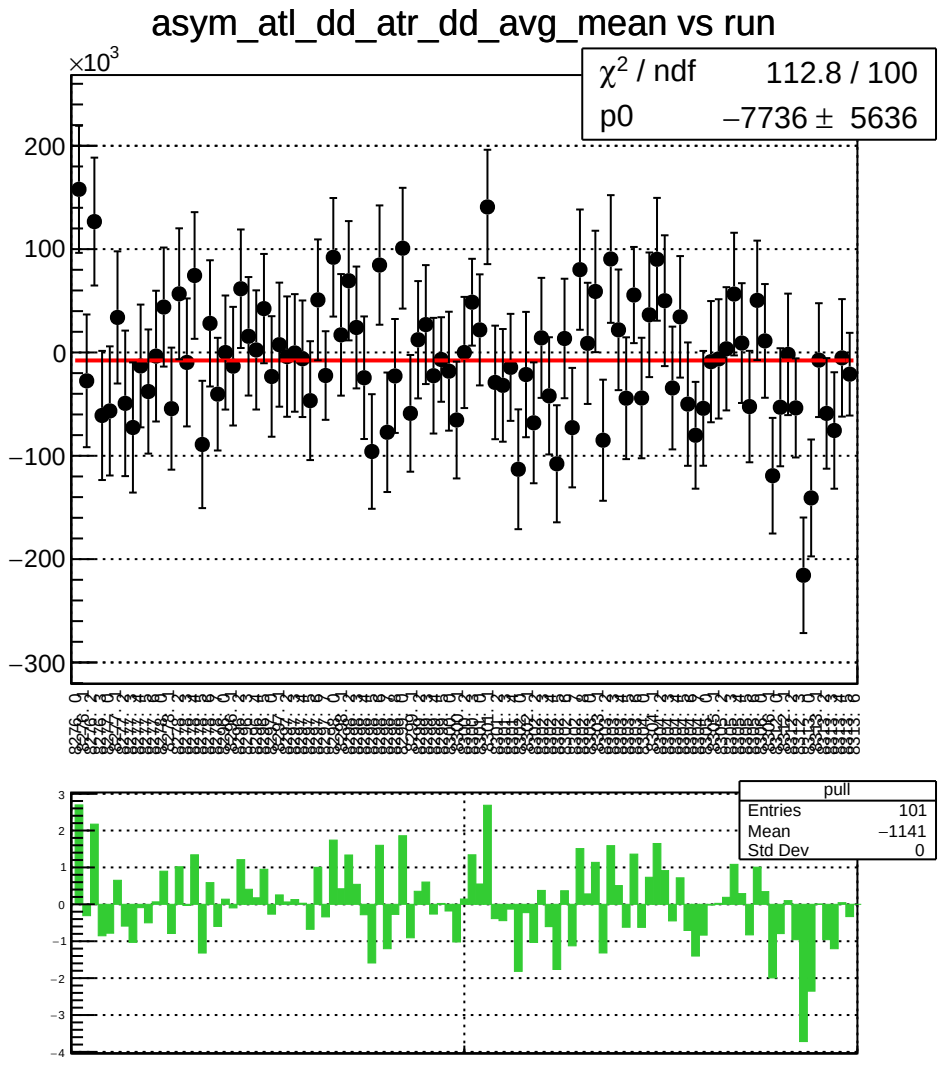

pull1D
Entries 101
Mean −0.0002082
Std Dev 0.8782
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

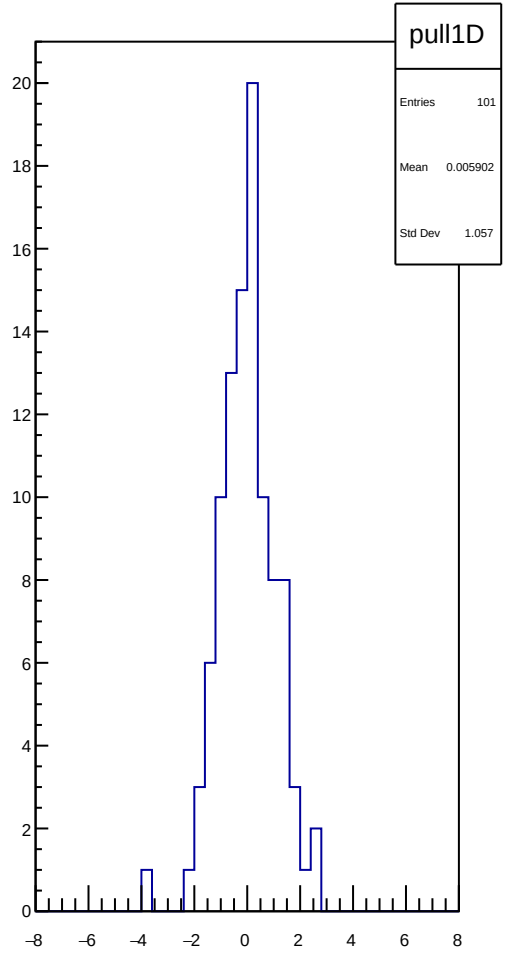

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 484.5 / 100
p0 1286 ± 0.9262
1440
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240

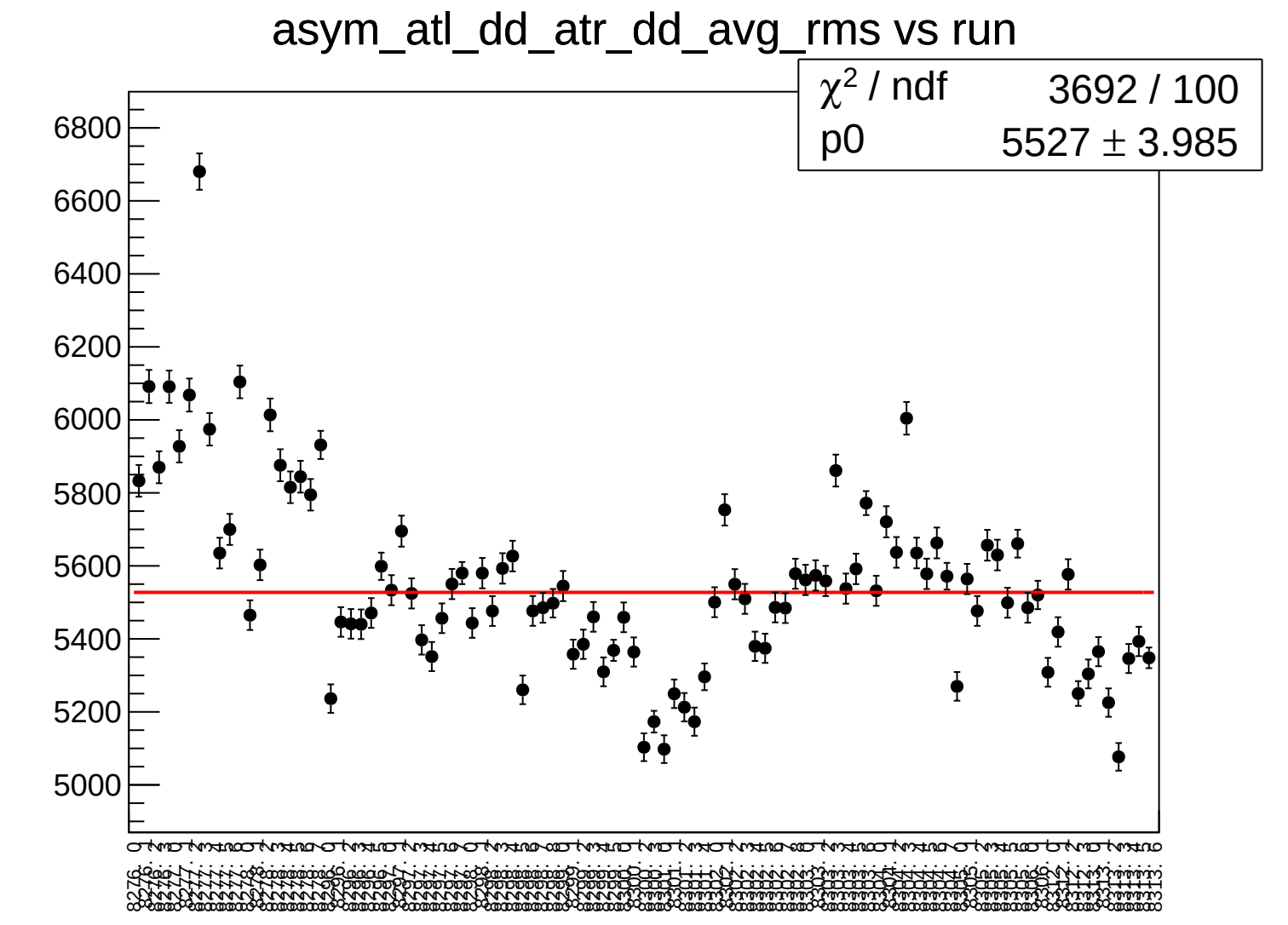

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 114.4 / 100
p0 7215 ± 5528
pull
Entries 101
Mean −1264
Std Dev 0

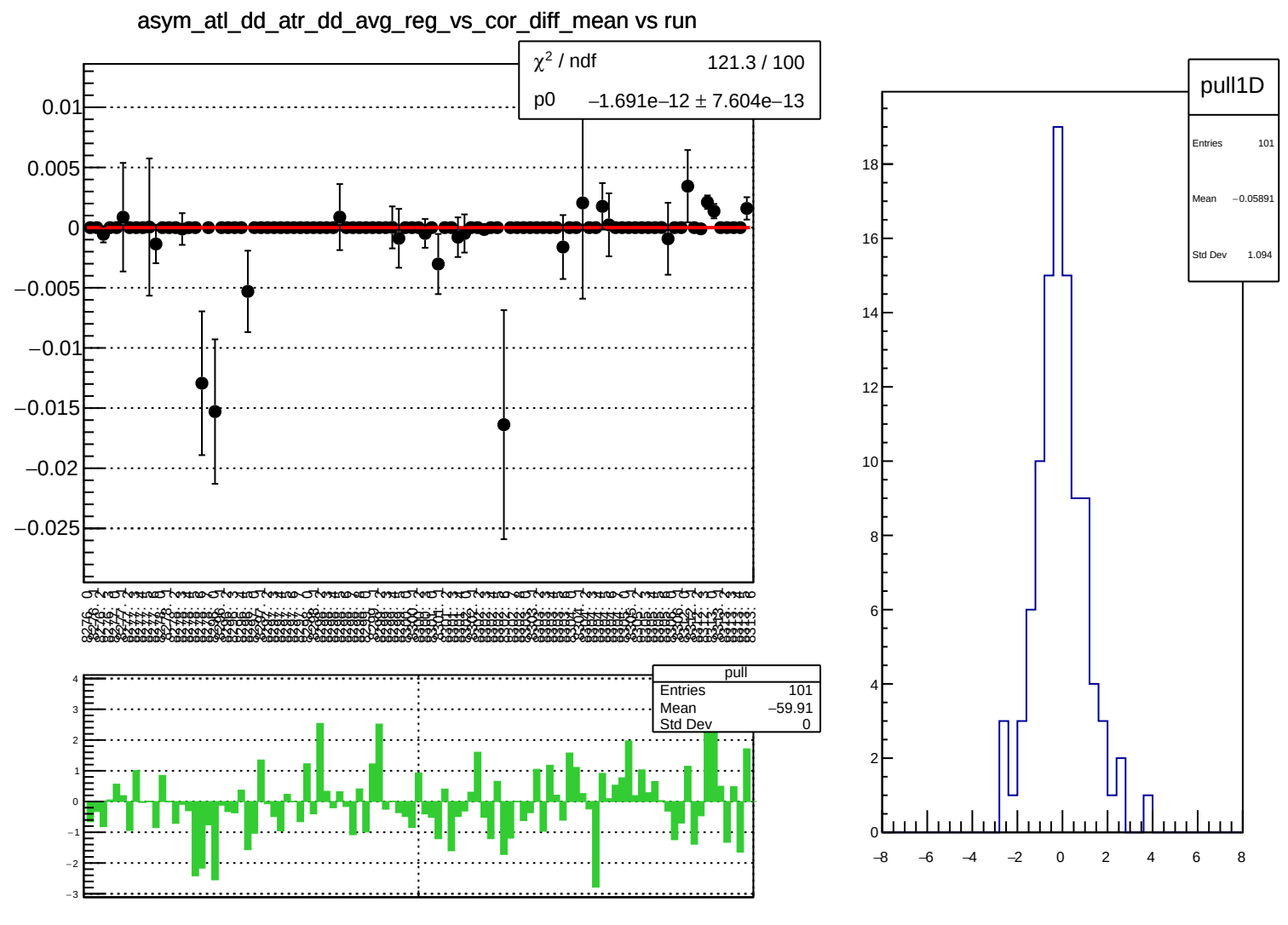

pull1D
Entries 101
Mean −0.005158
Std Dev 1.064

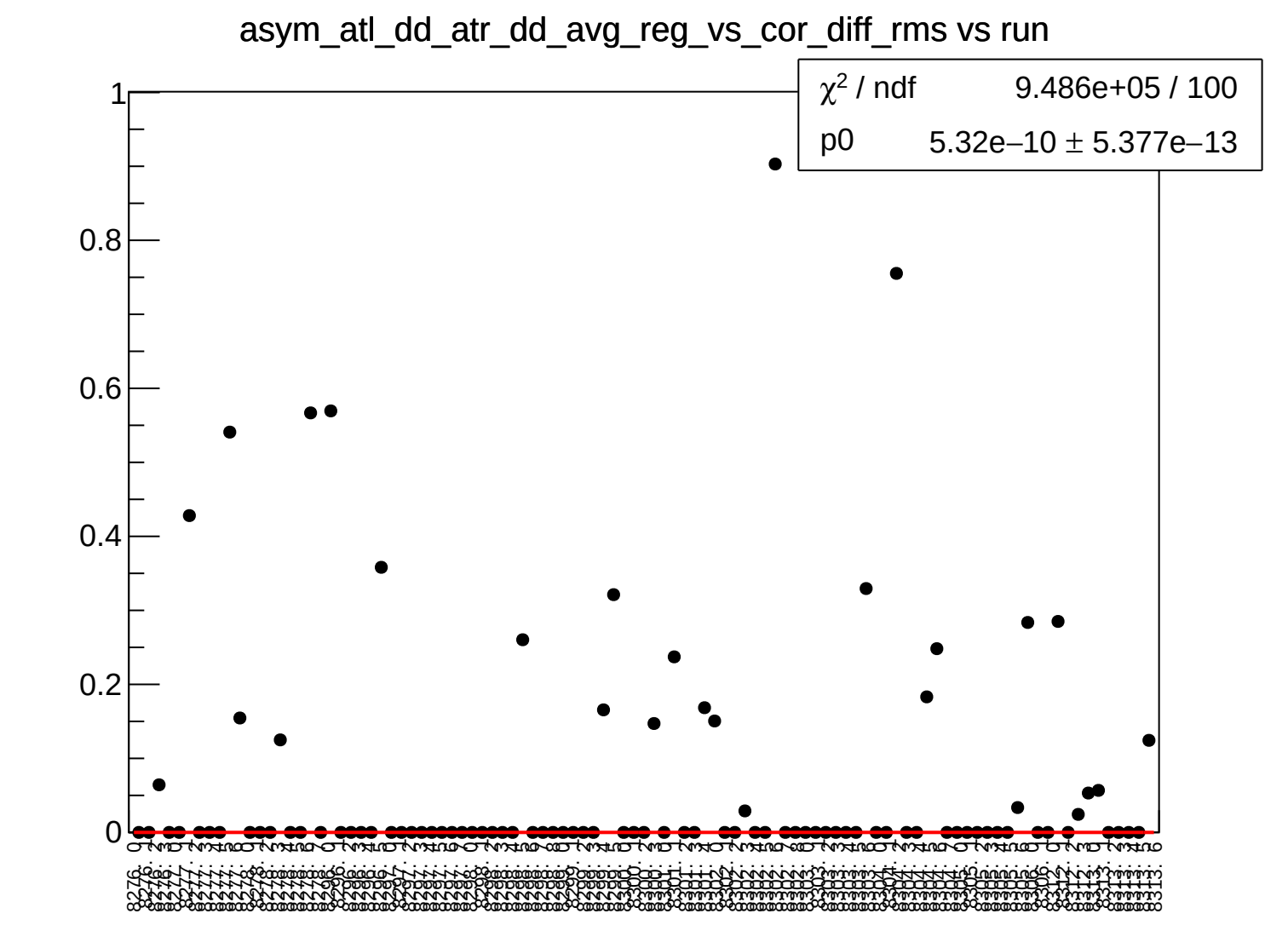

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 5382 / 100
p0 5419 ± 3.909
7000
6500
6000
5500
5000

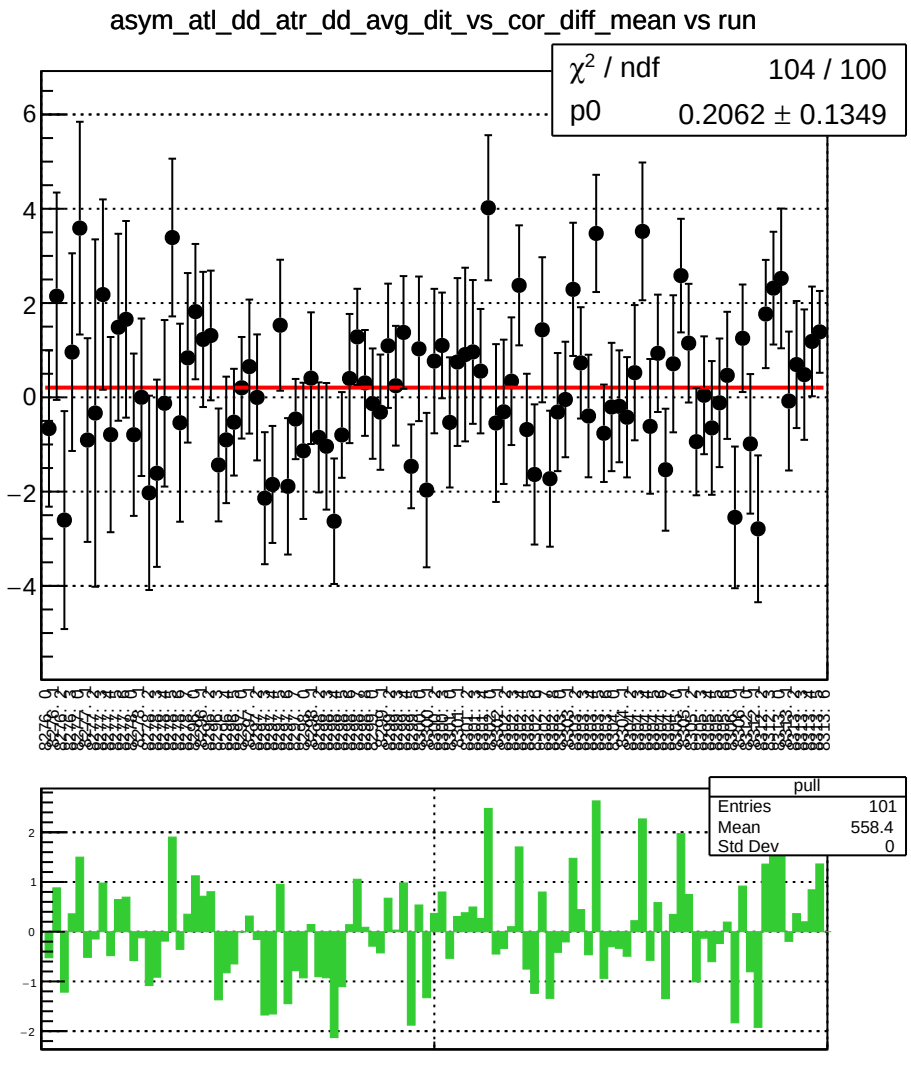

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 112.8 / 100
p0 −7736 ± 5636
200
100
0
−100
−200
−300
pull
Entries 101
Mean −1141
Std Dev 0
3
2
1
0
−1
−2
−3
−4

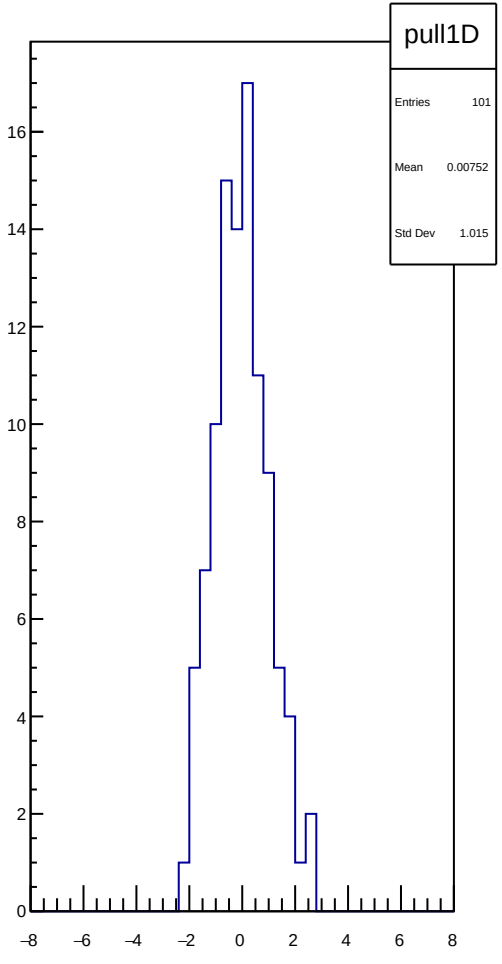

pull1D
Entries 101
Mean 0.005902
Std Dev 1.057
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

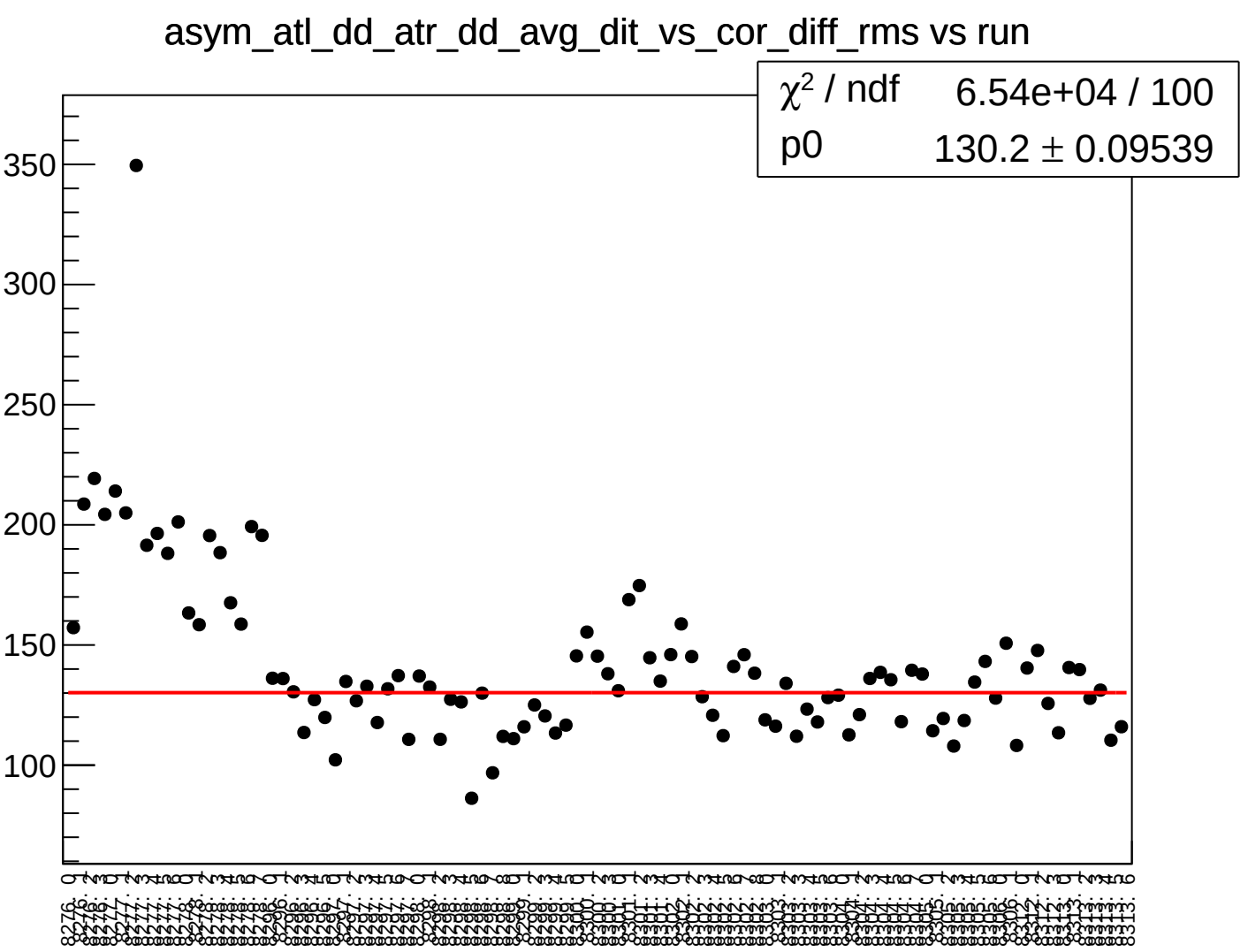

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 3692 / 100
p0 5527 ± 3.985
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000

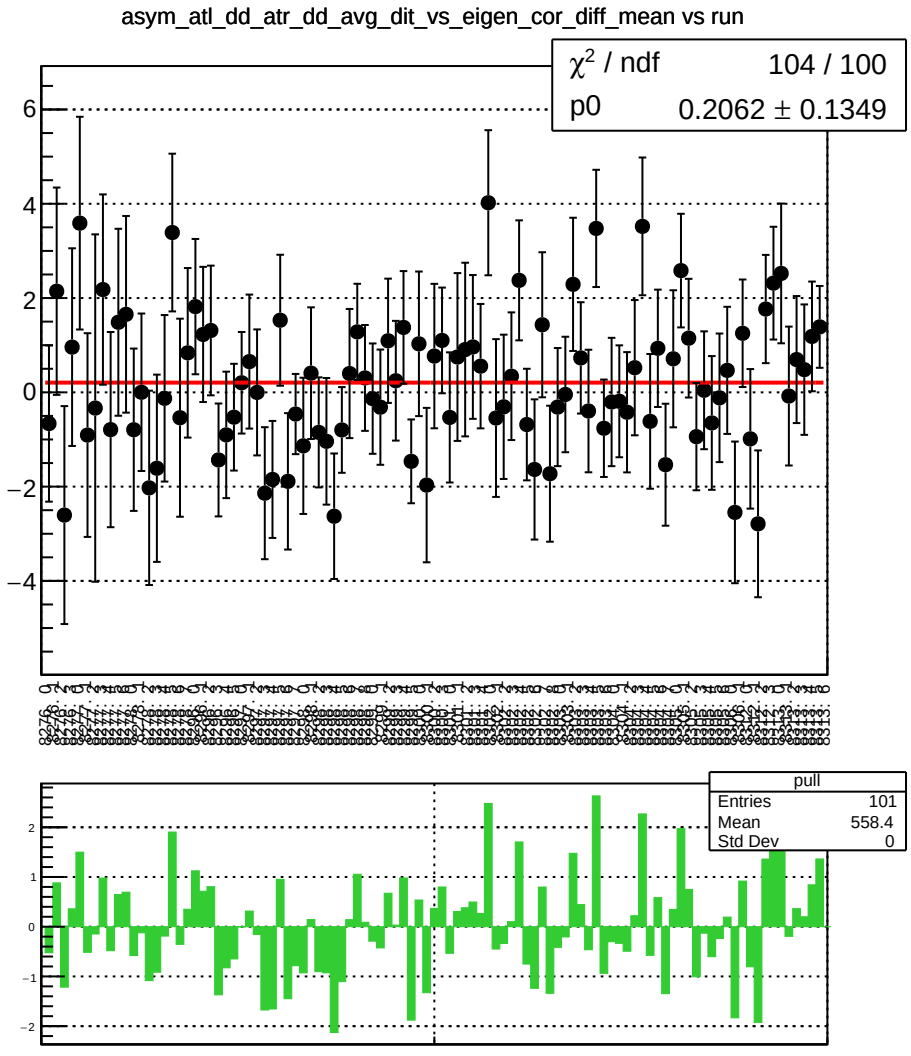

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 121.3 / 100
p0 −1.691e−12 ± 7.604e−13
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
pull
Entries 101
Mean −59.91
Std Dev 0
pull1D
Entries 101
Mean −0.05891
Std Dev 1.094

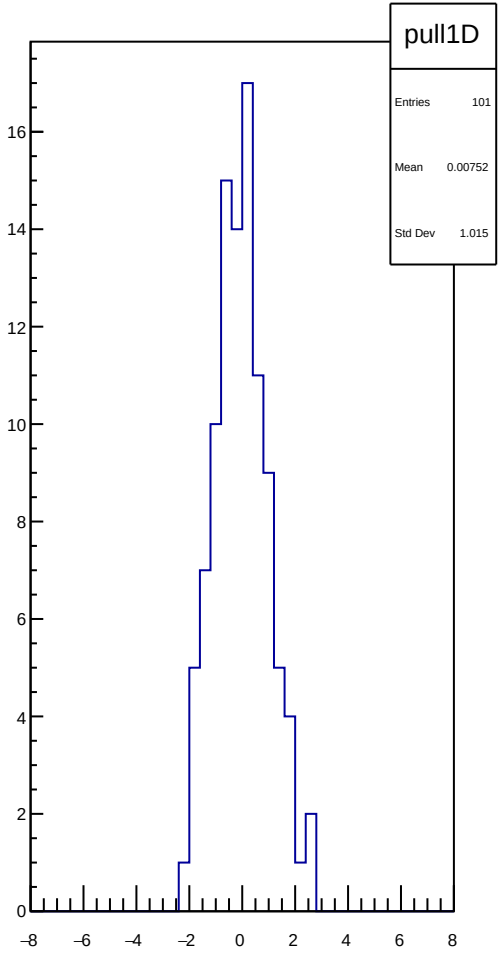

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.486e+05 / 100
p0 5.32e−10 ± 5.377e−13
1
0.8
0.6
0.4
0.2
0

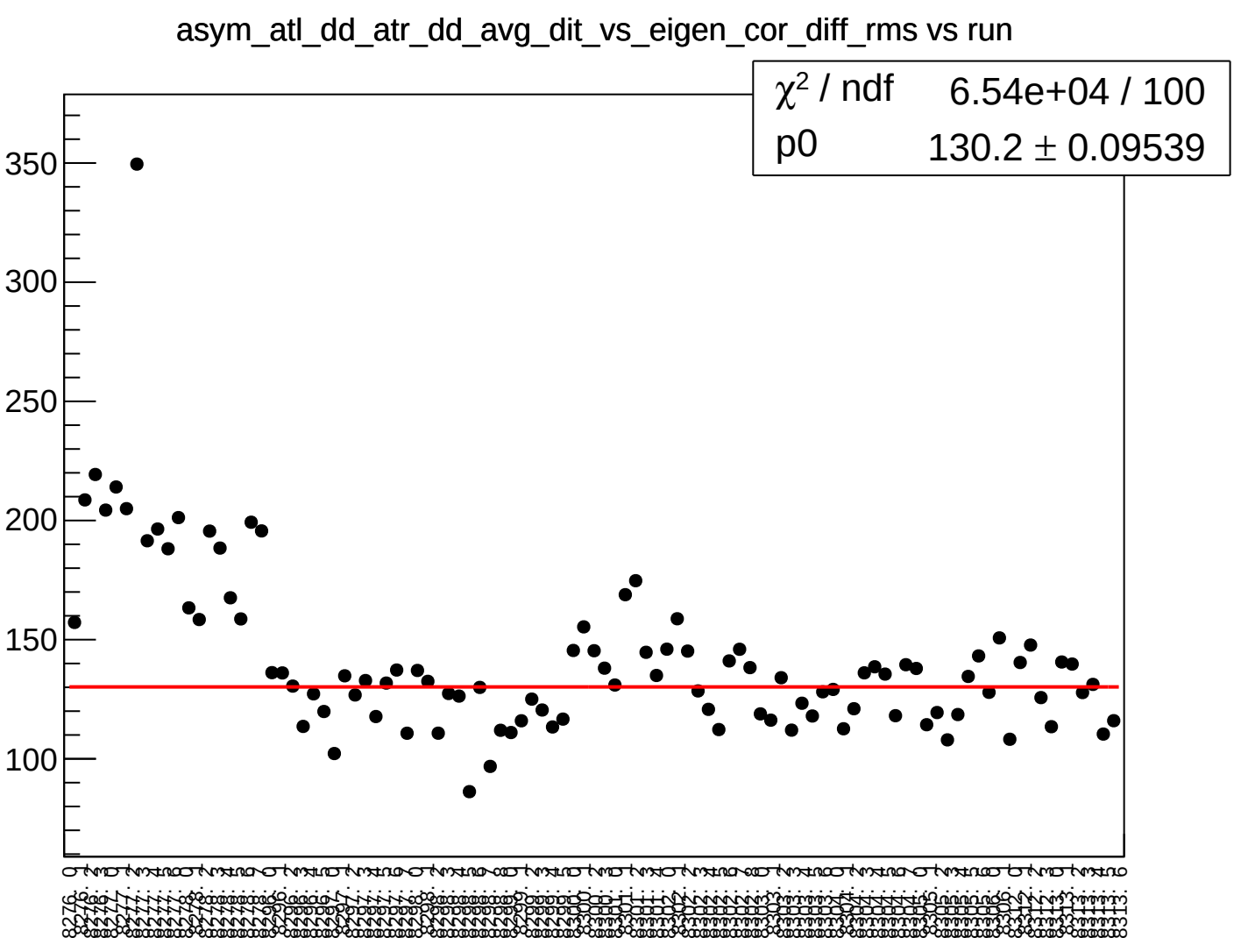

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 104 / 100
p0 0.2062 ± 0.1349
pull
Entries 101
Mean 558.4
Std Dev 0

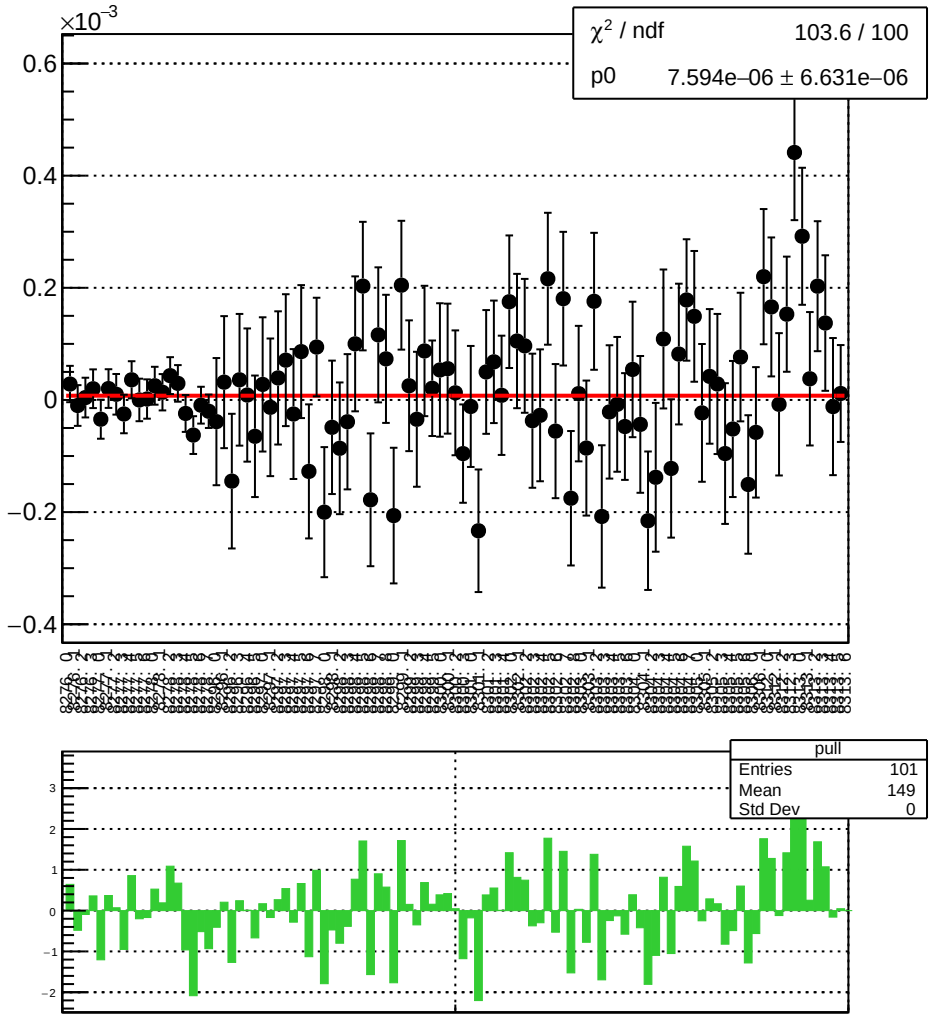

pull1D
Entries 101
Mean 0.00752
Std Dev 1.015

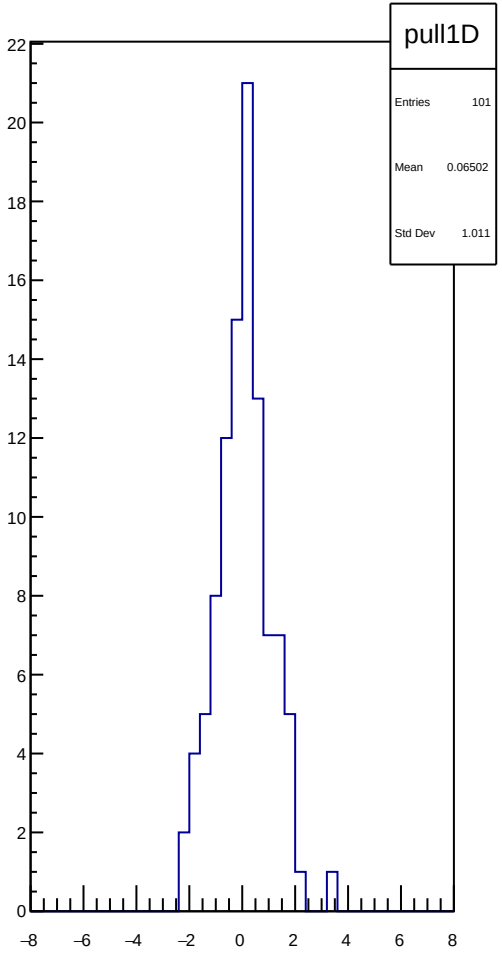

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.54e+04 / 100
p0 130.2 ± 0.09539
350
300
250
200
150
100

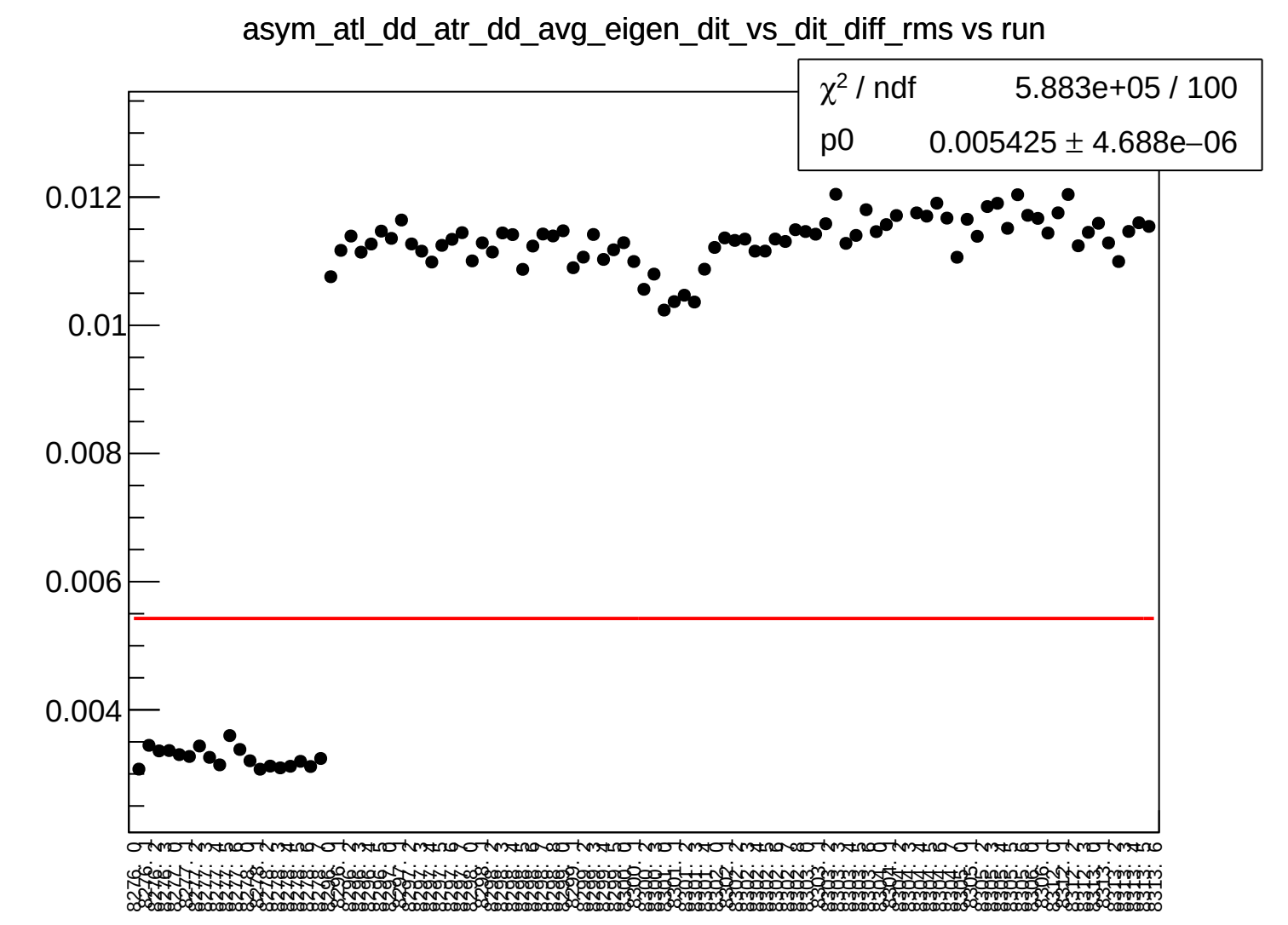

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104 / 100
p0 0.2062 ± 0.1349
pull
Entries 101
Mean 558.4
Std Dev 0

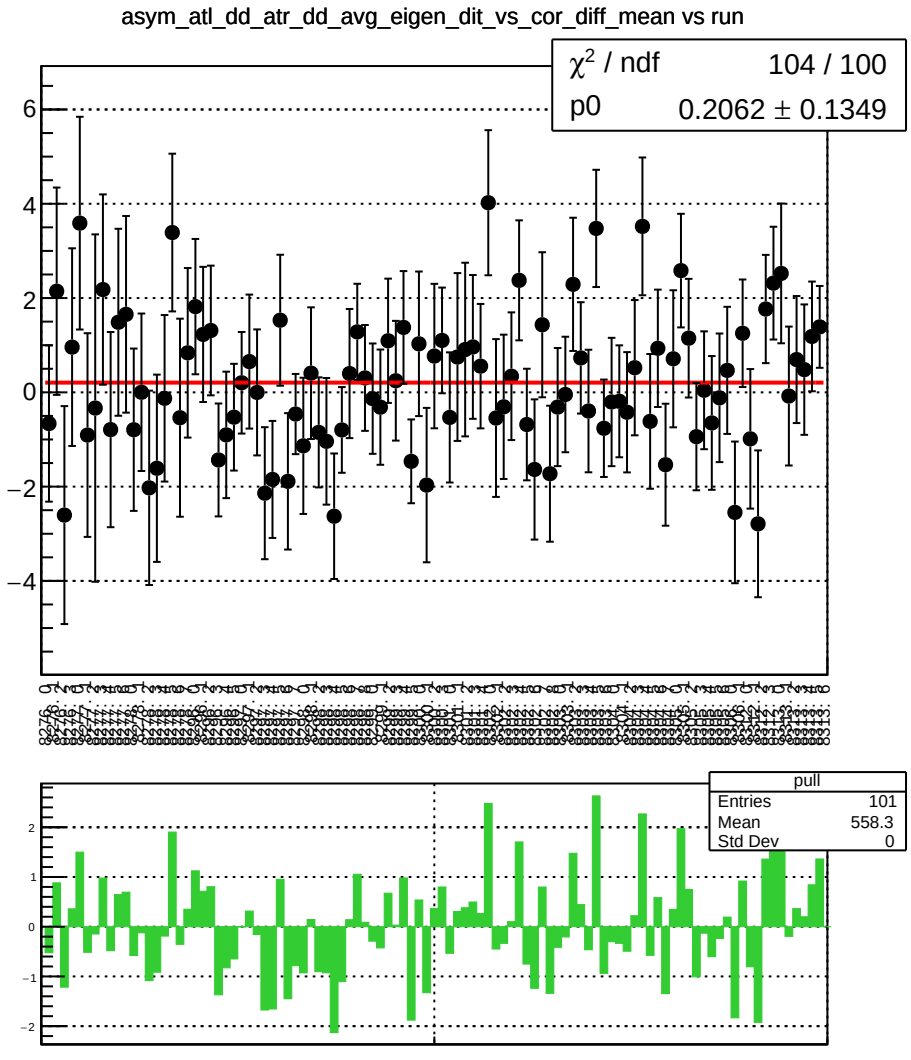

pull1D
Entries 101
Mean 0.00752
Std Dev 1.015

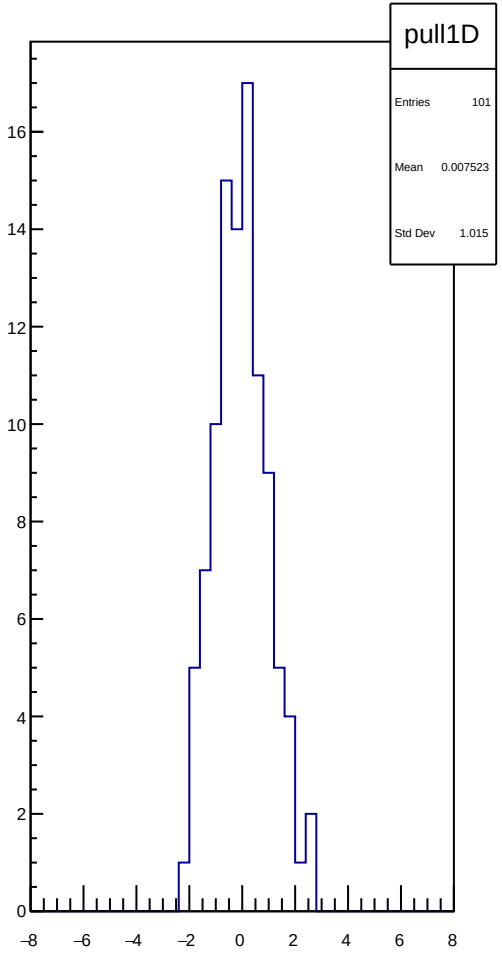

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.54e+04 / 100
p0 130.2 ± 0.09539
350
300
250
200
150
100

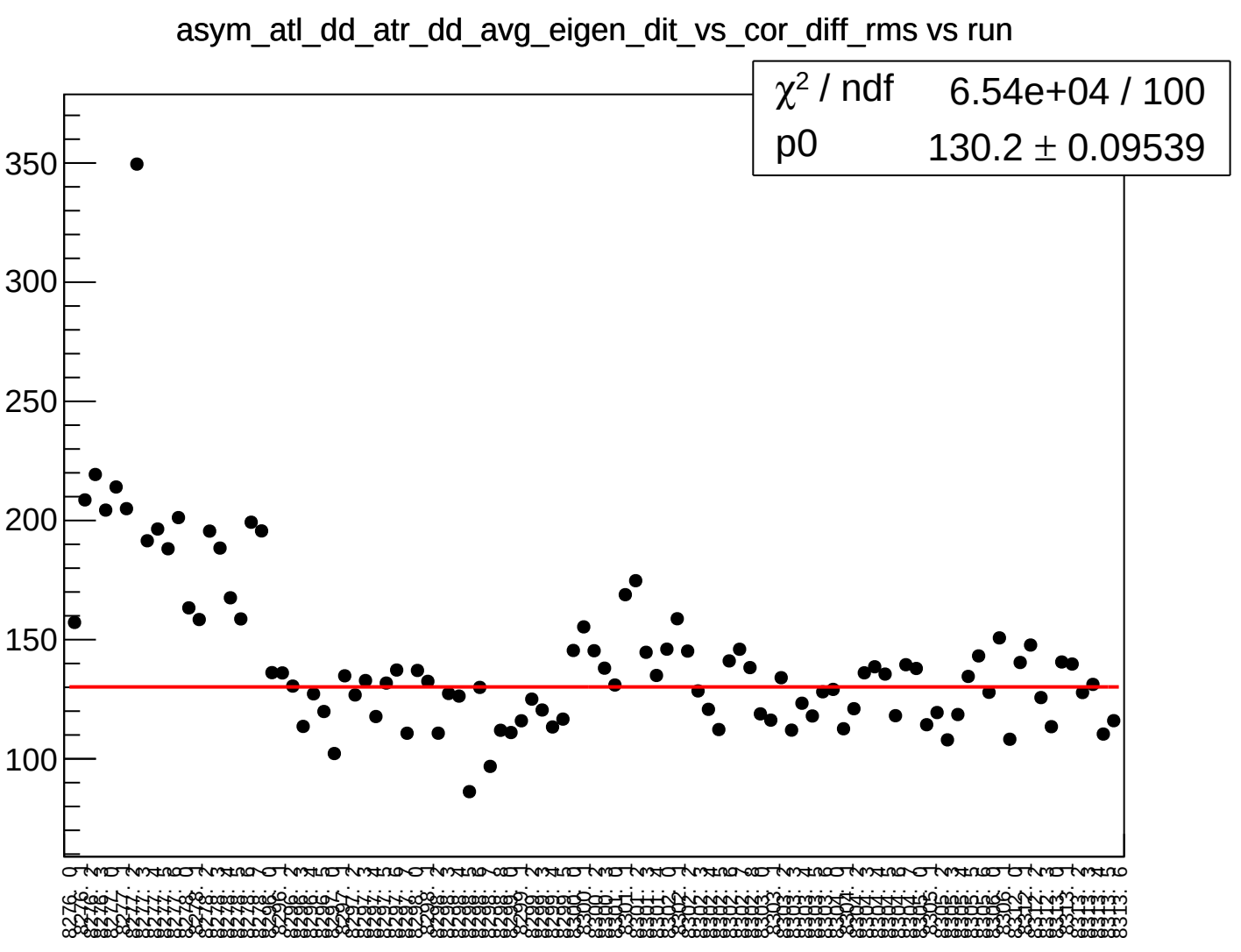

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103.6 / 100
p0 7.594e−06 ± 6.631e−06
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 101
Mean 149
Std Dev 0
3
2
1
0
−1
−2

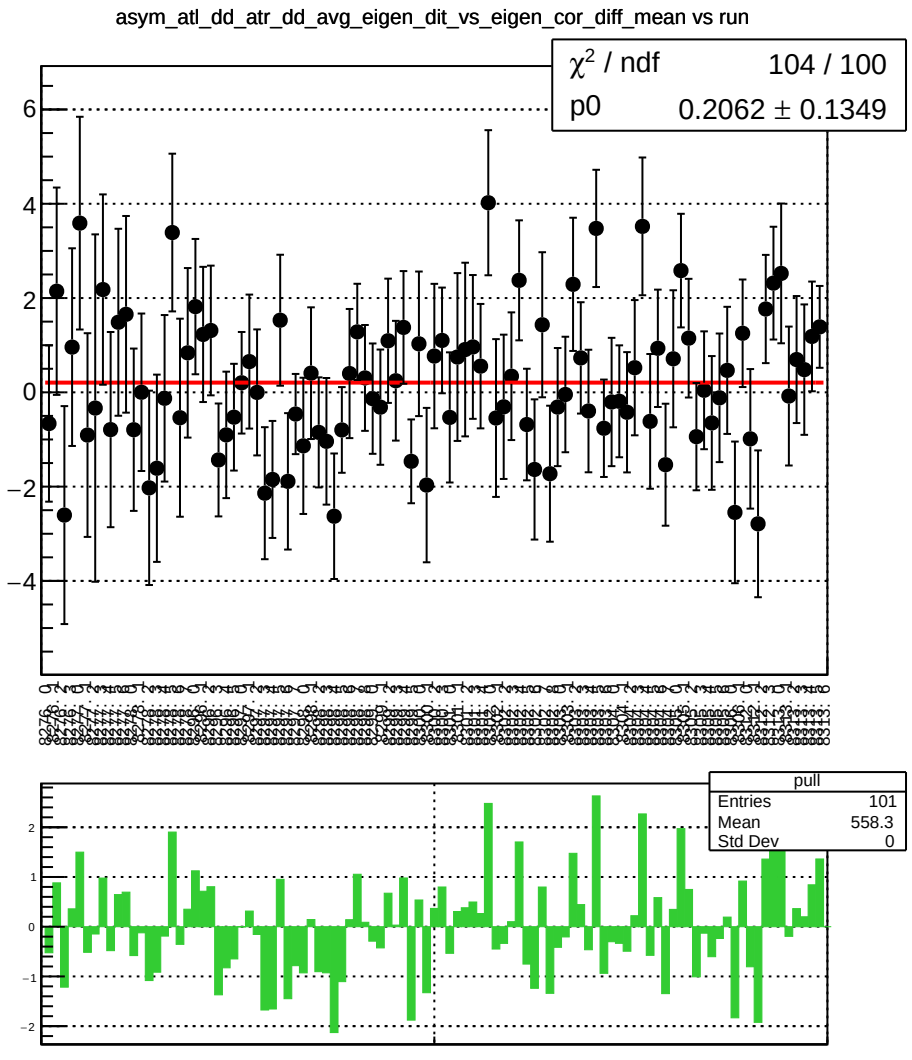

pull1D
Entries 101
Mean 0.06502
Std Dev 1.011
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

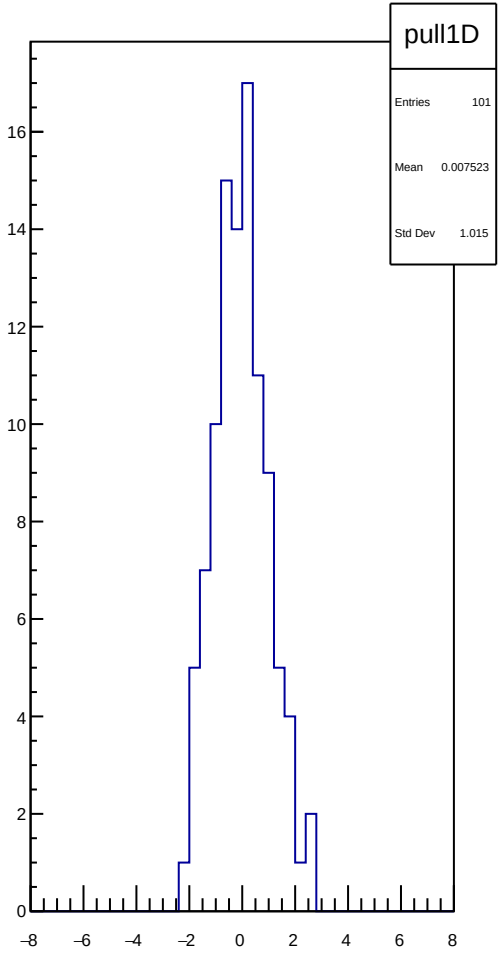

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.883e+05 / 100
p0 0.005425 ± 4.688e−06
0.012
0.01
0.008
0.006
0.004

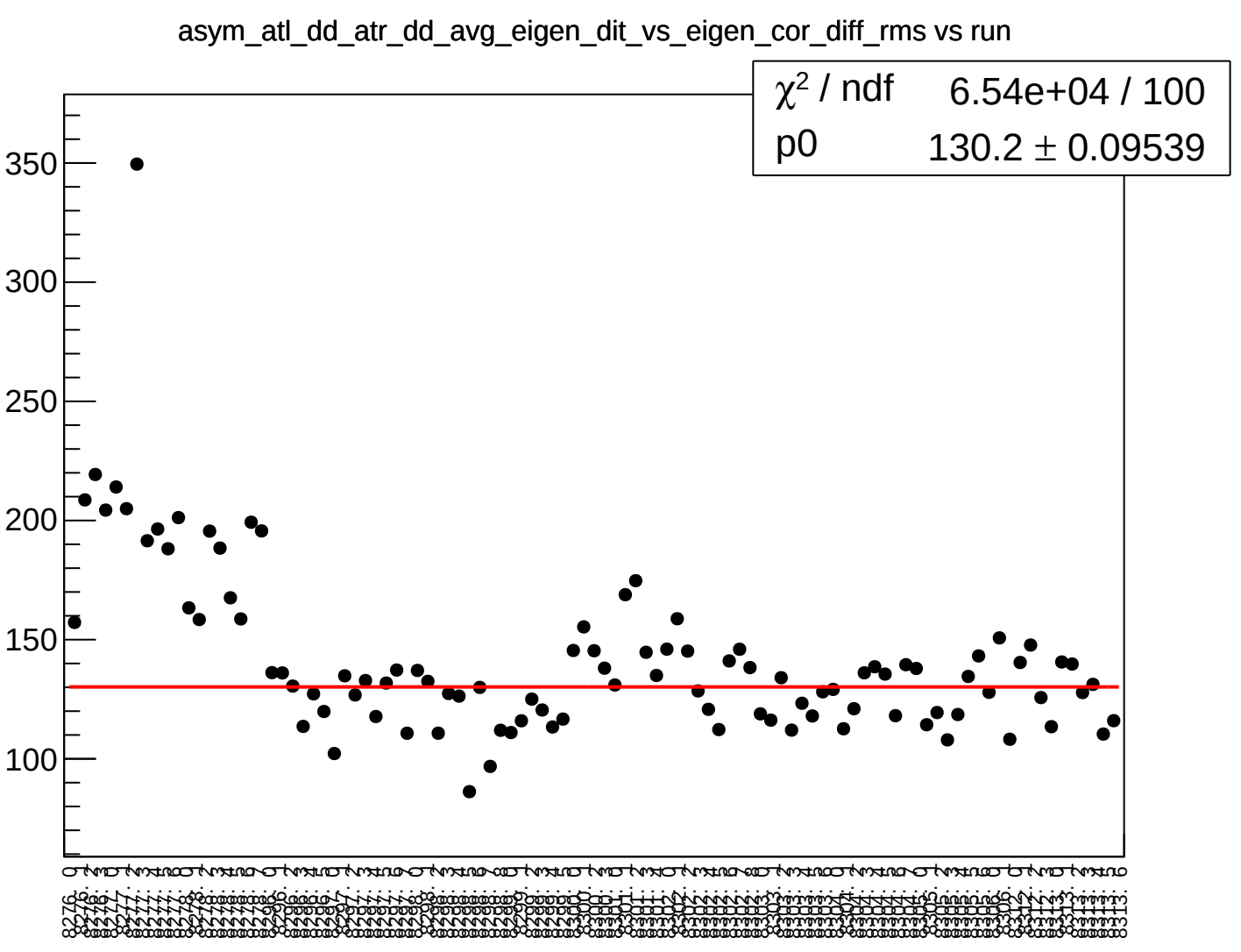

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104 / 100
p0 0.2062 ± 0.1349
pull
Entries 101
Mean 558.3
Std Dev 0

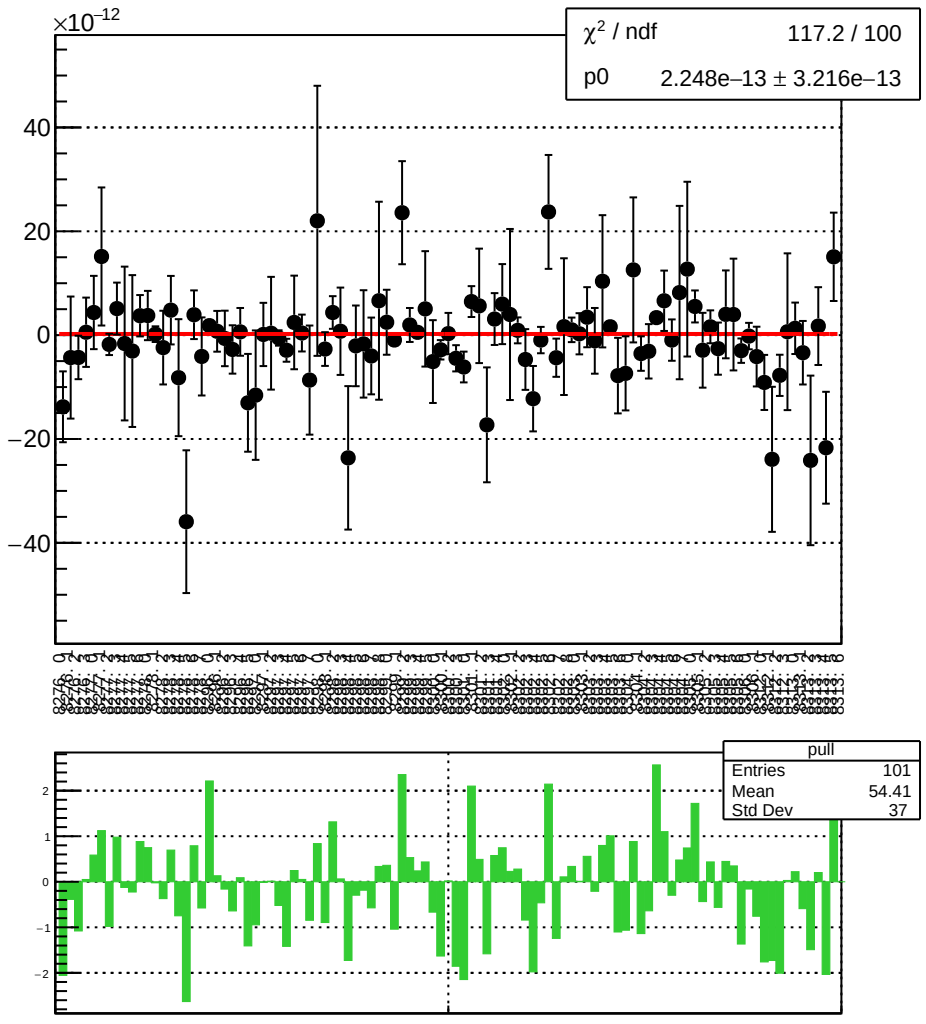

pull1D
Entries 101
Mean 0.007523
Std Dev 1.015

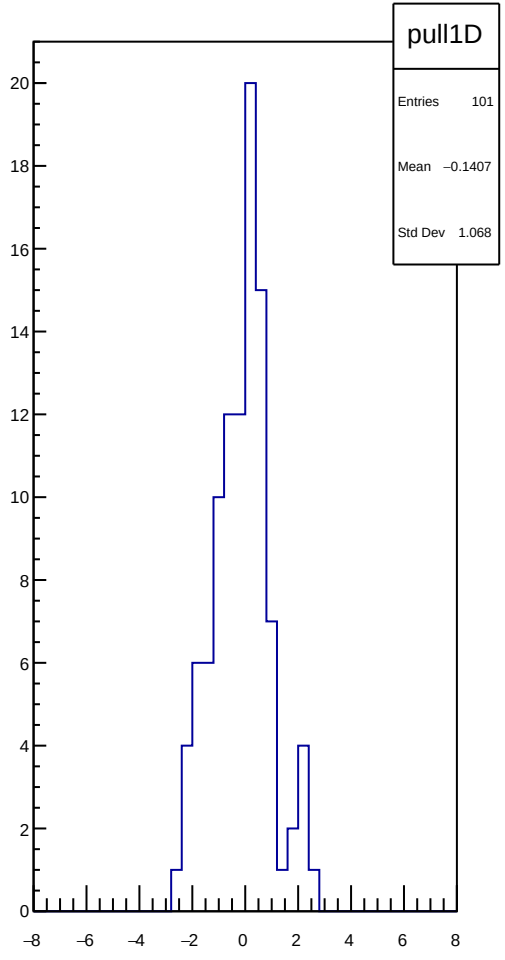

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.54e+04 / 100
p0 130.2 ± 0.09539
350
300
250
200
150
100

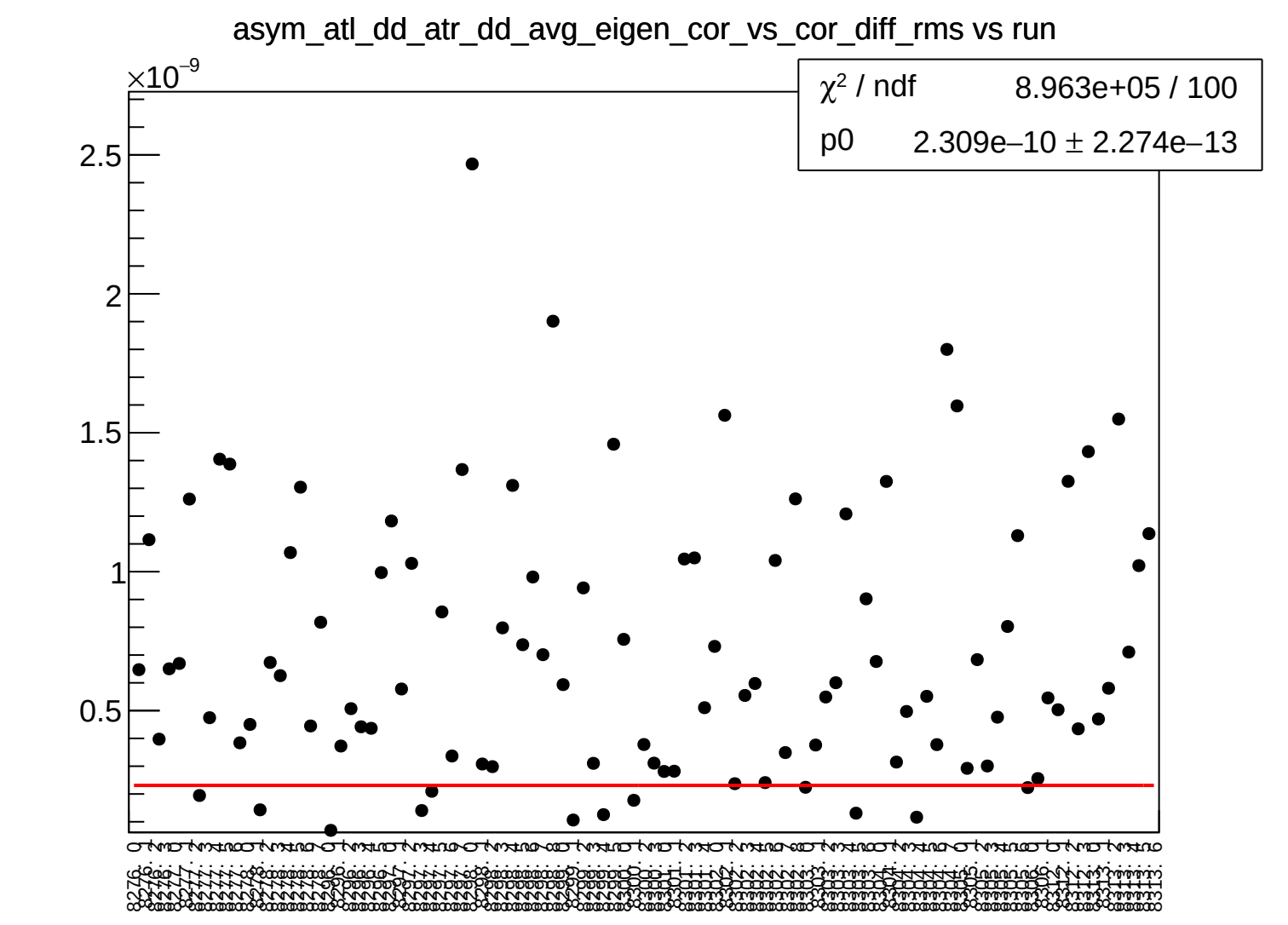

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104 / 100
p0 0.2062 ± 0.1349
pull
Entries 101
Mean 558.3
Std Dev 0

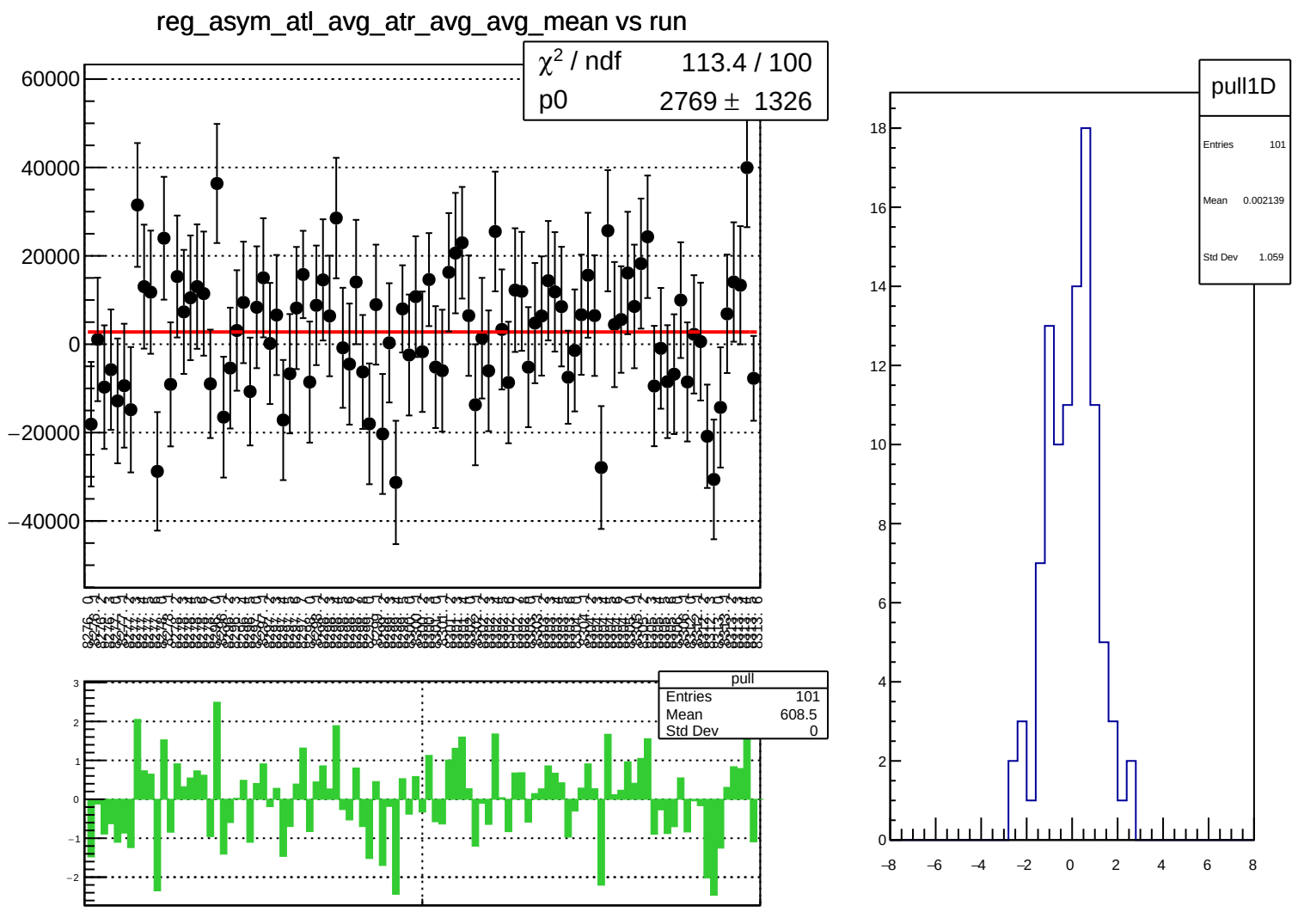

pull1D
Entries 101
Mean 0.007523
Std Dev 1.015

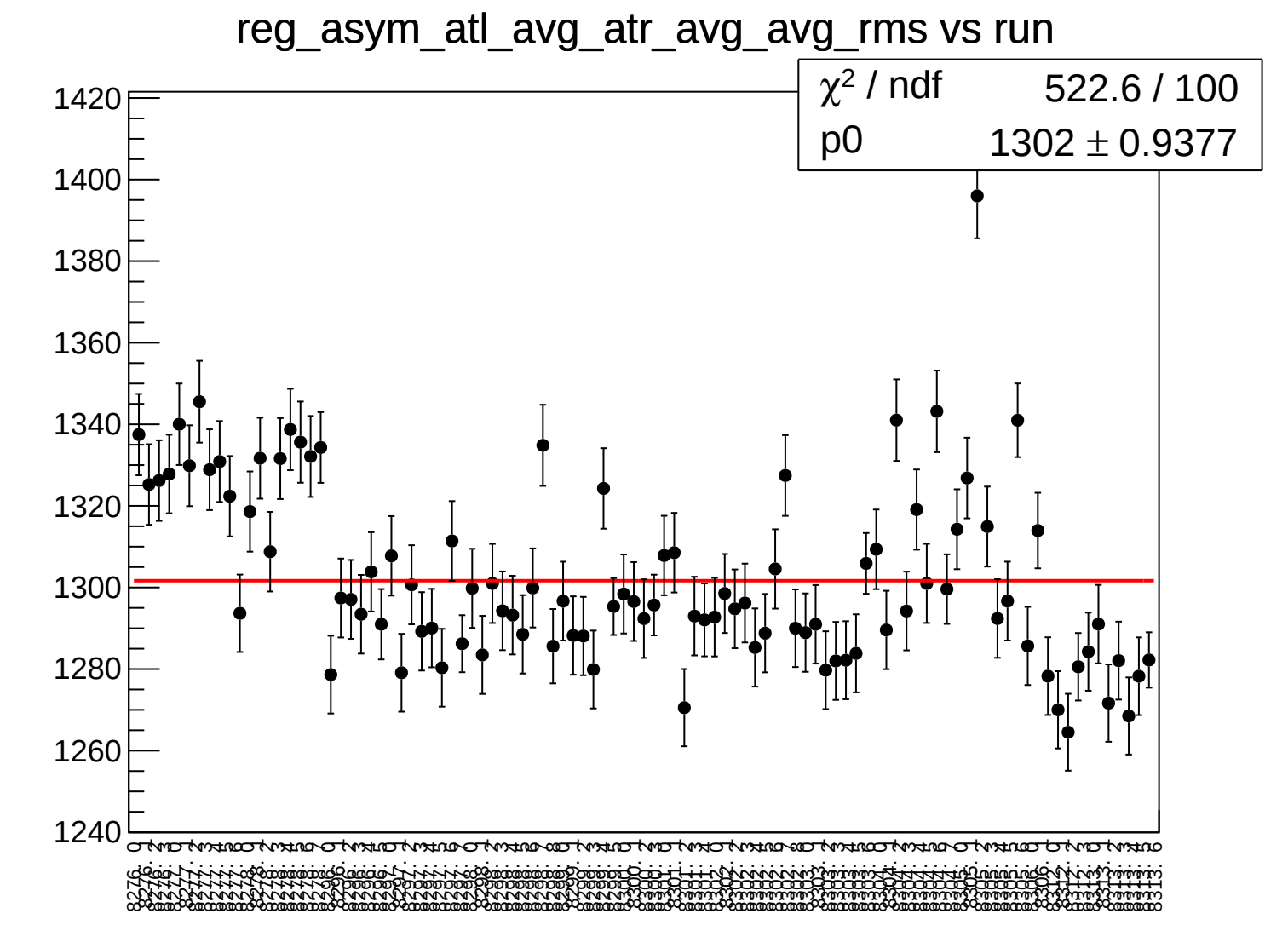

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.54e+04 / 100
p0 130.2 ± 0.09539
350
300
250
200
150
100

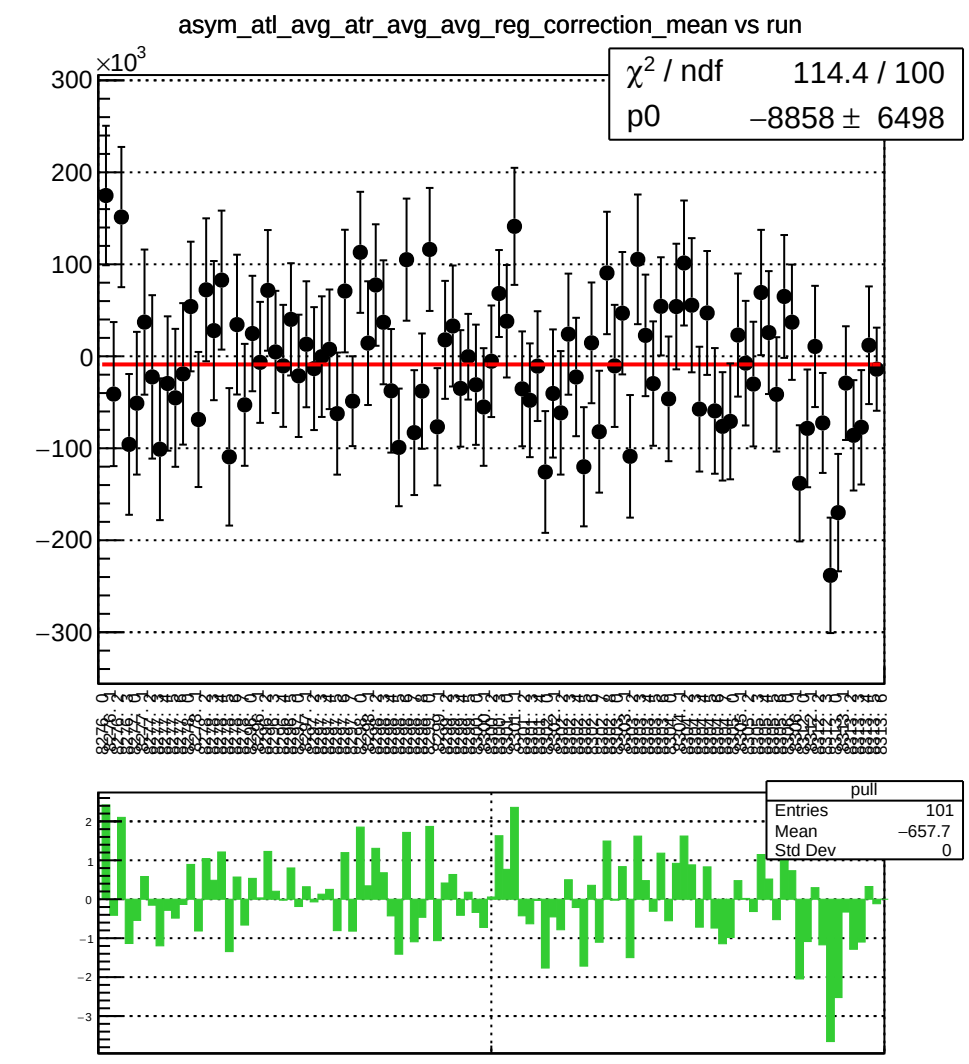

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 117.2 / 100
p0 2.248e−13 ± 3.216e−13
40
20
0
−20
−40
pull
Entries 101
Mean 54.41
Std Dev 37
2
1
0
−1
−2

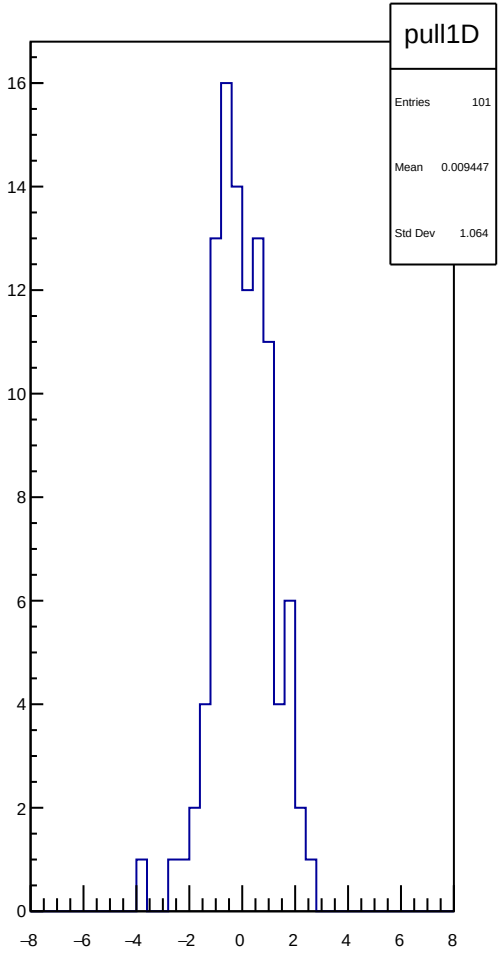

pull1D
Entries 101
Mean −0.1407
Std Dev 1.068
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

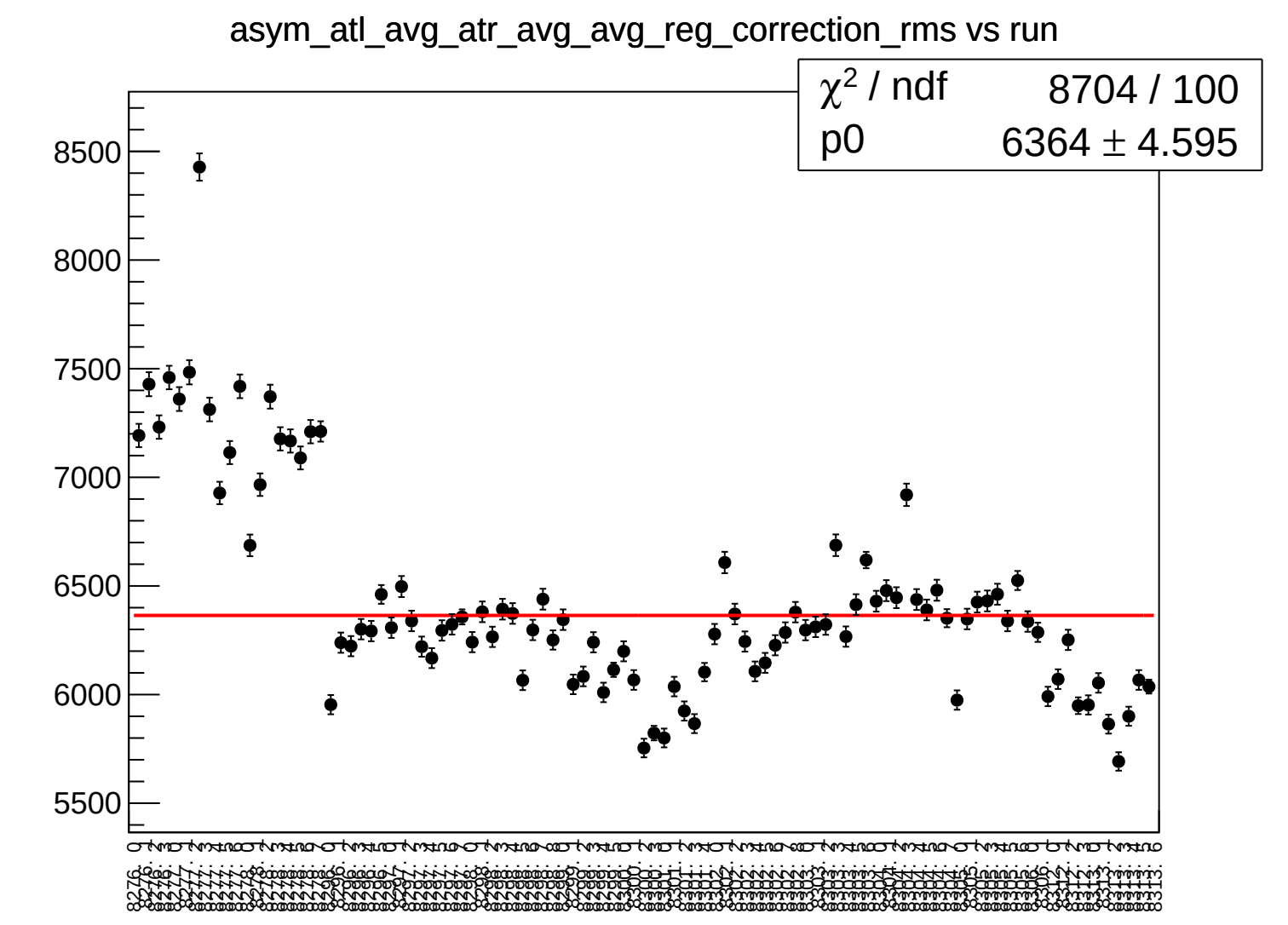

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.963e+05 / 100
p0 2.309e−10 ± 2.274e−13
2.5
2
1.5
1
0.5

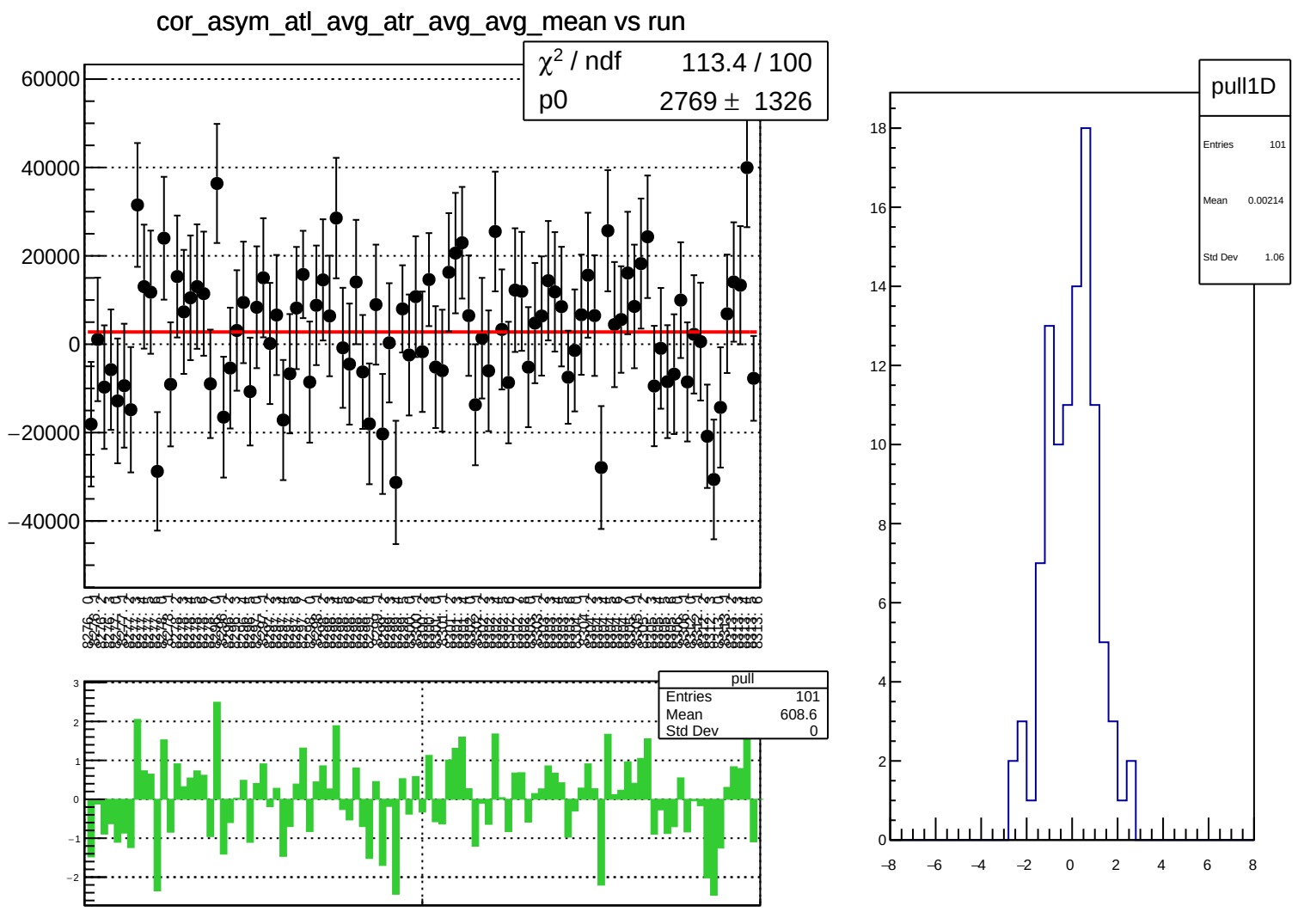

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 113.4 / 100
p0 2769 ± 1326
60000
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 608.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.002139
Std Dev 1.059
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

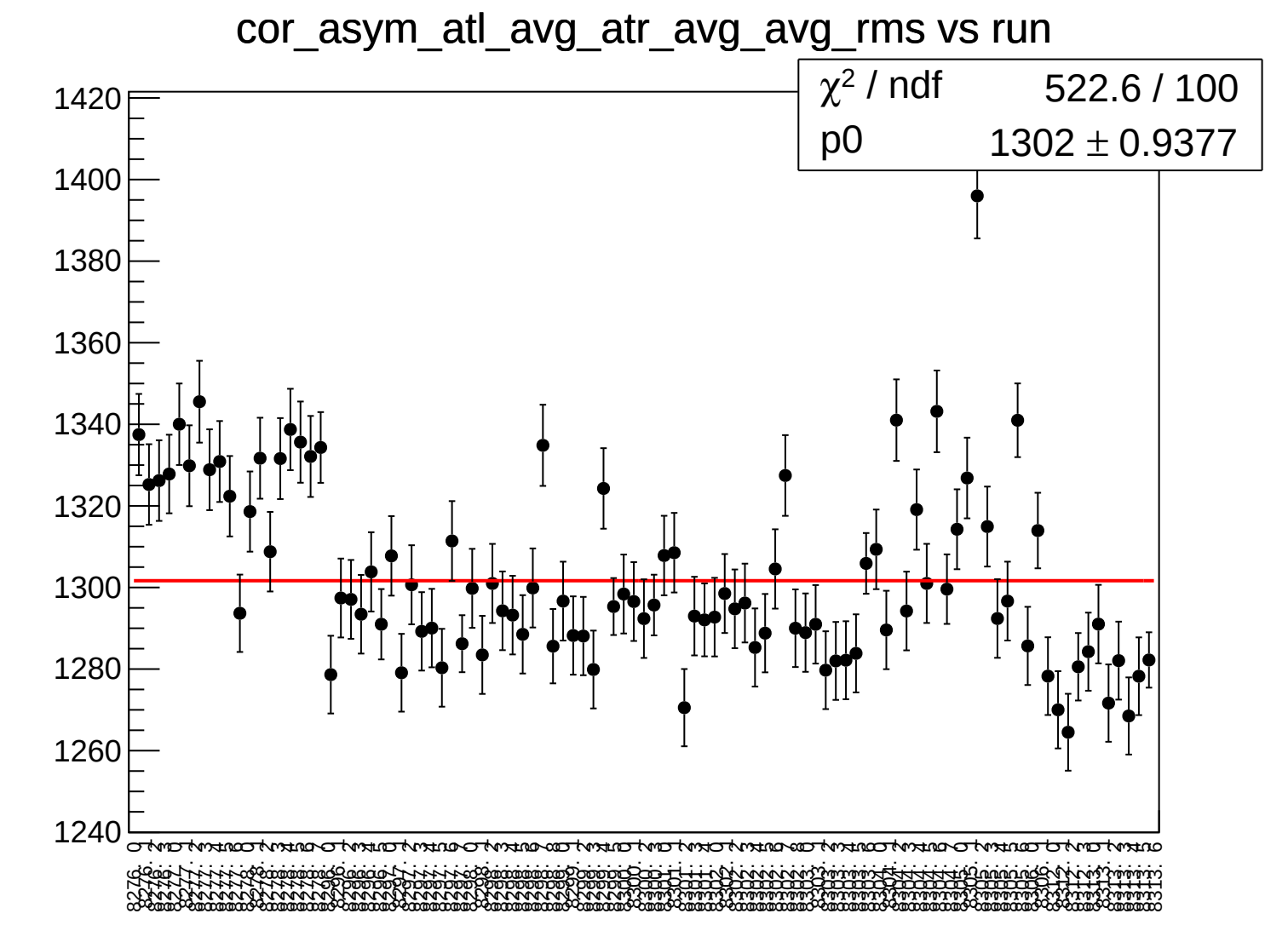

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 522.6 / 100
p0 1302 ± 0.9377
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240

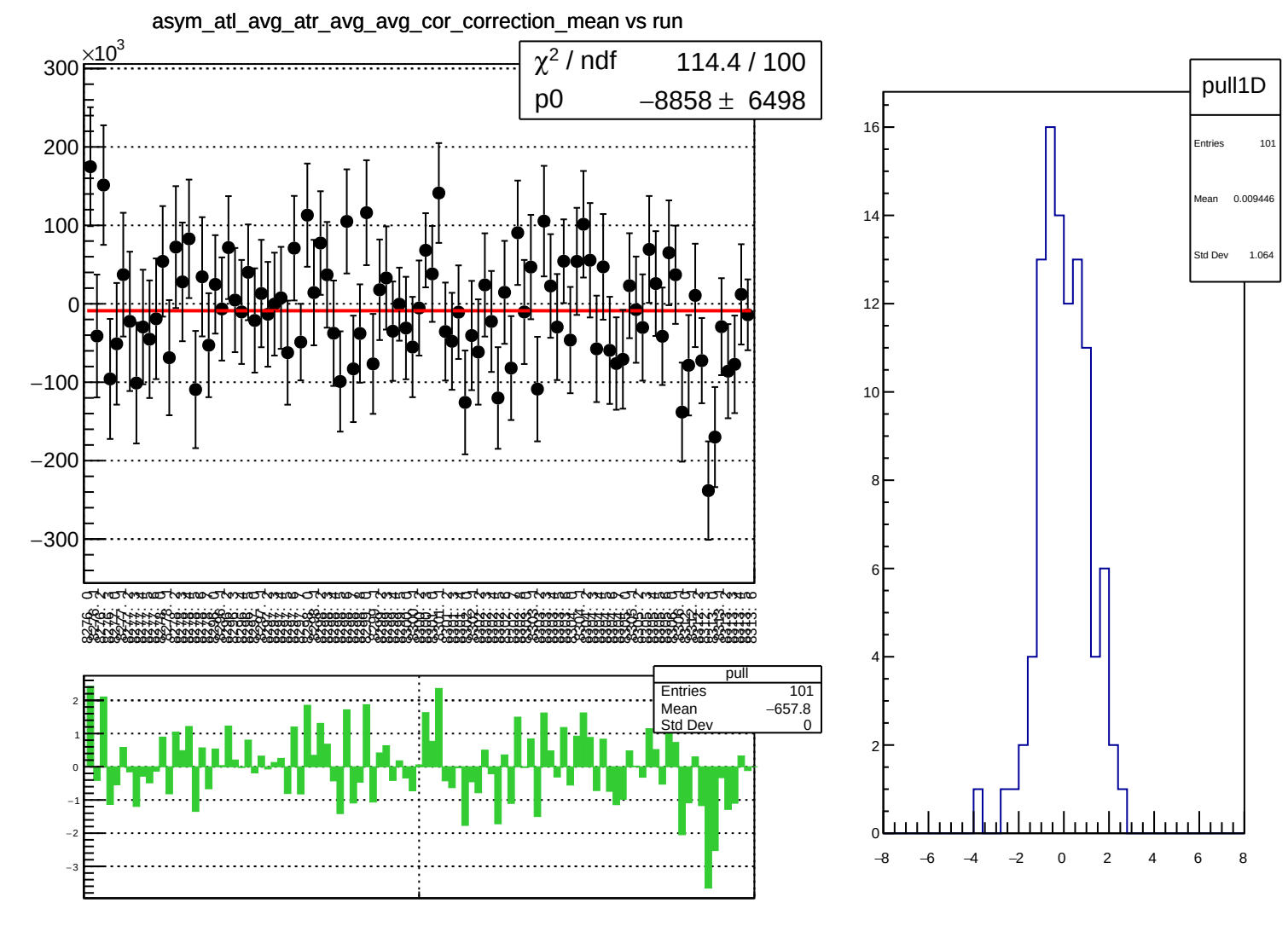

asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
χ² / ndf 114.4 / 100
p0 −8858 ± 6498
×10³
300
200
100
0
−100
−200
−300
pull
Entries 101
Mean −657.7
Std Dev 0
2
1
0
−1
−2
−3

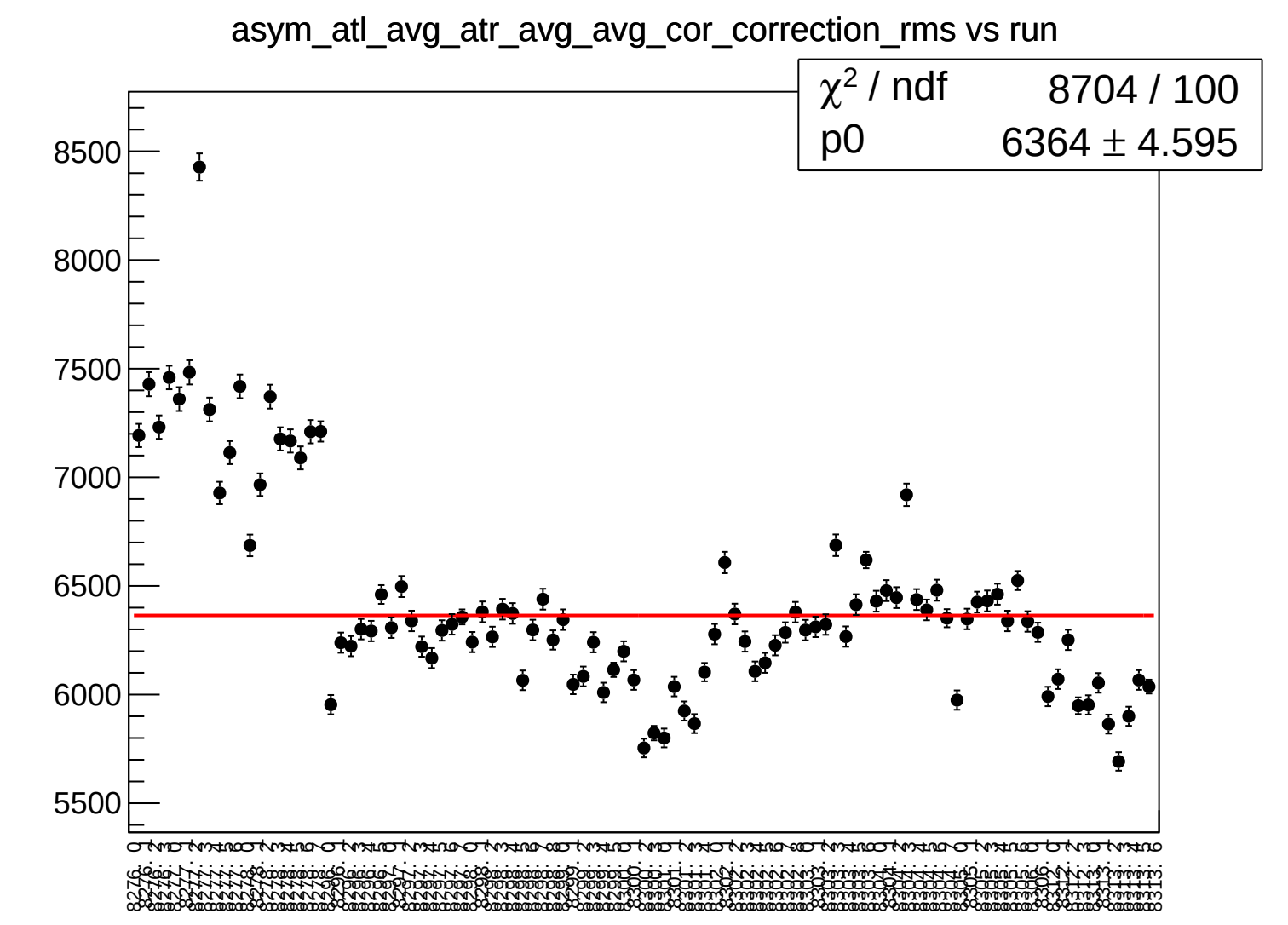

pull1D
Entries 101
Mean 0.009447
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

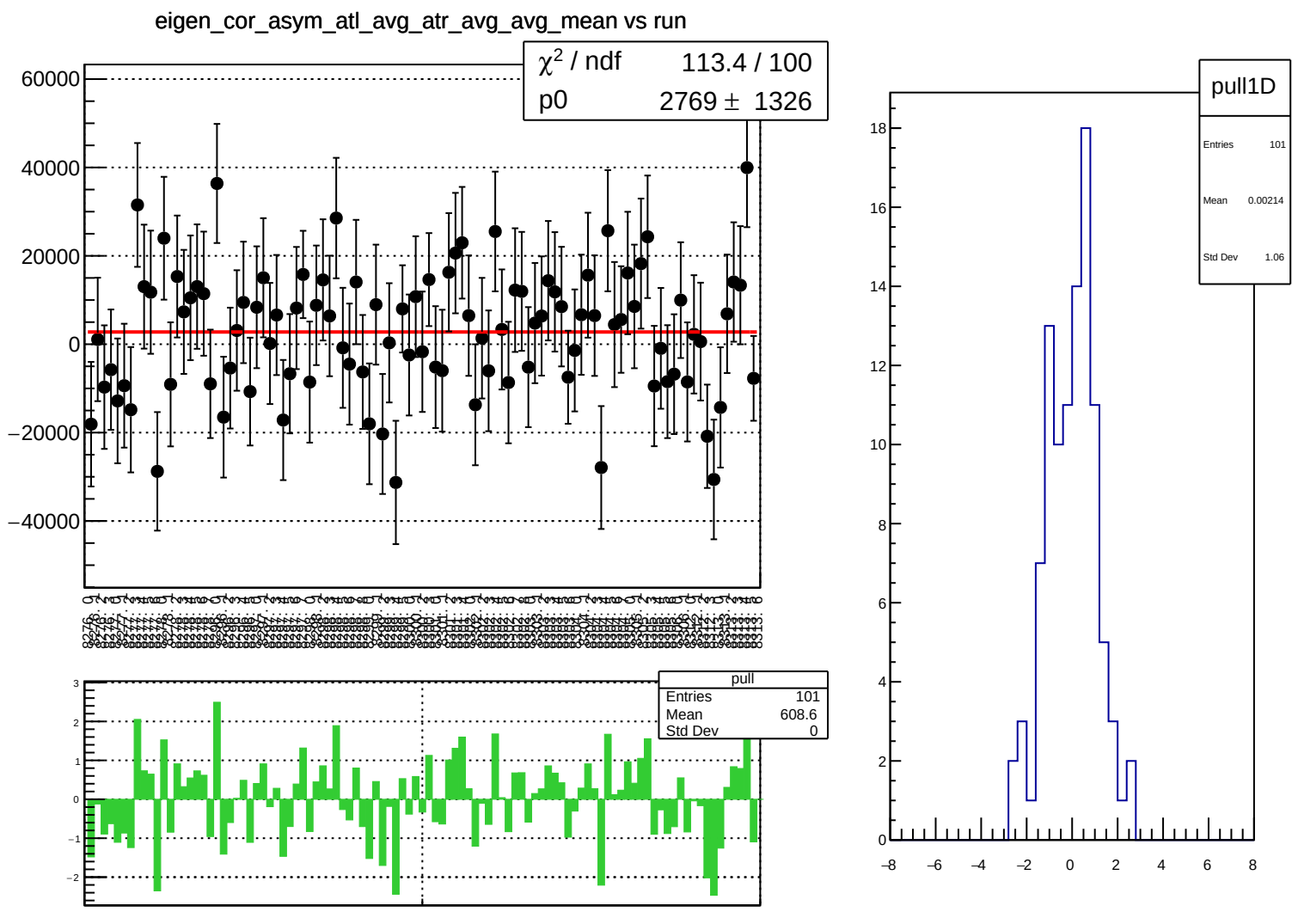

asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 8704 / 100
p0 6364 ± 4.595
8500
8000
7500
7000
6500
6000
5500

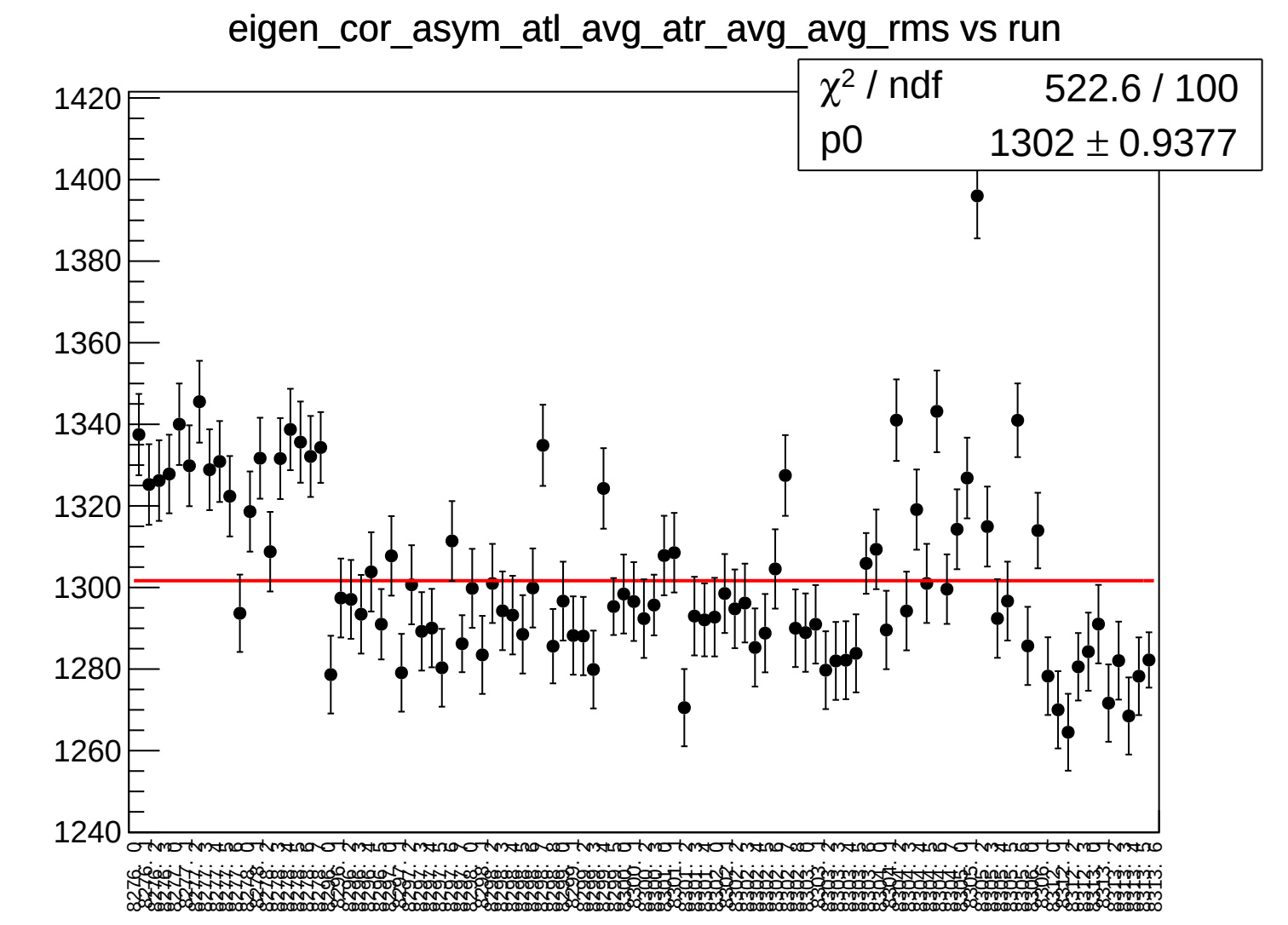

cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 113.4 / 100
p0 2769 ± 1326
60000
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 608.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.00214
Std Dev 1.06
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

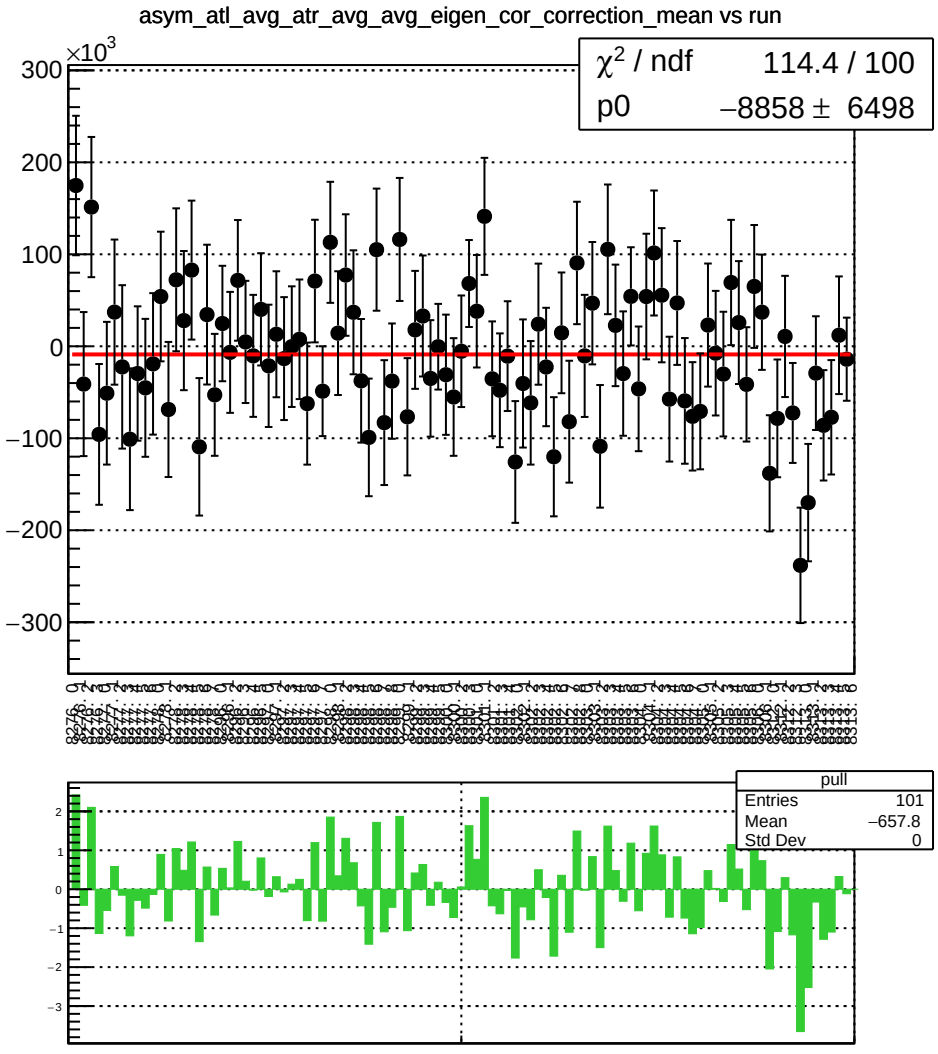

cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 522.6 / 100
p0 1302 ± 0.9377
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240

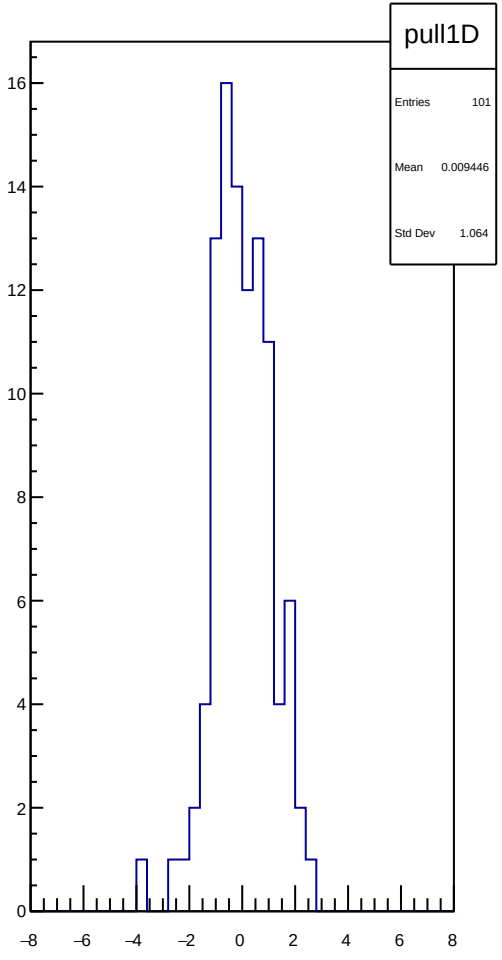

asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
χ² / ndf 114.4 / 100
p0 −8858 ± 6498
×10³
300
200
100
0
−100
−200
−300
pull
Entries 101
Mean −657.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.009446
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

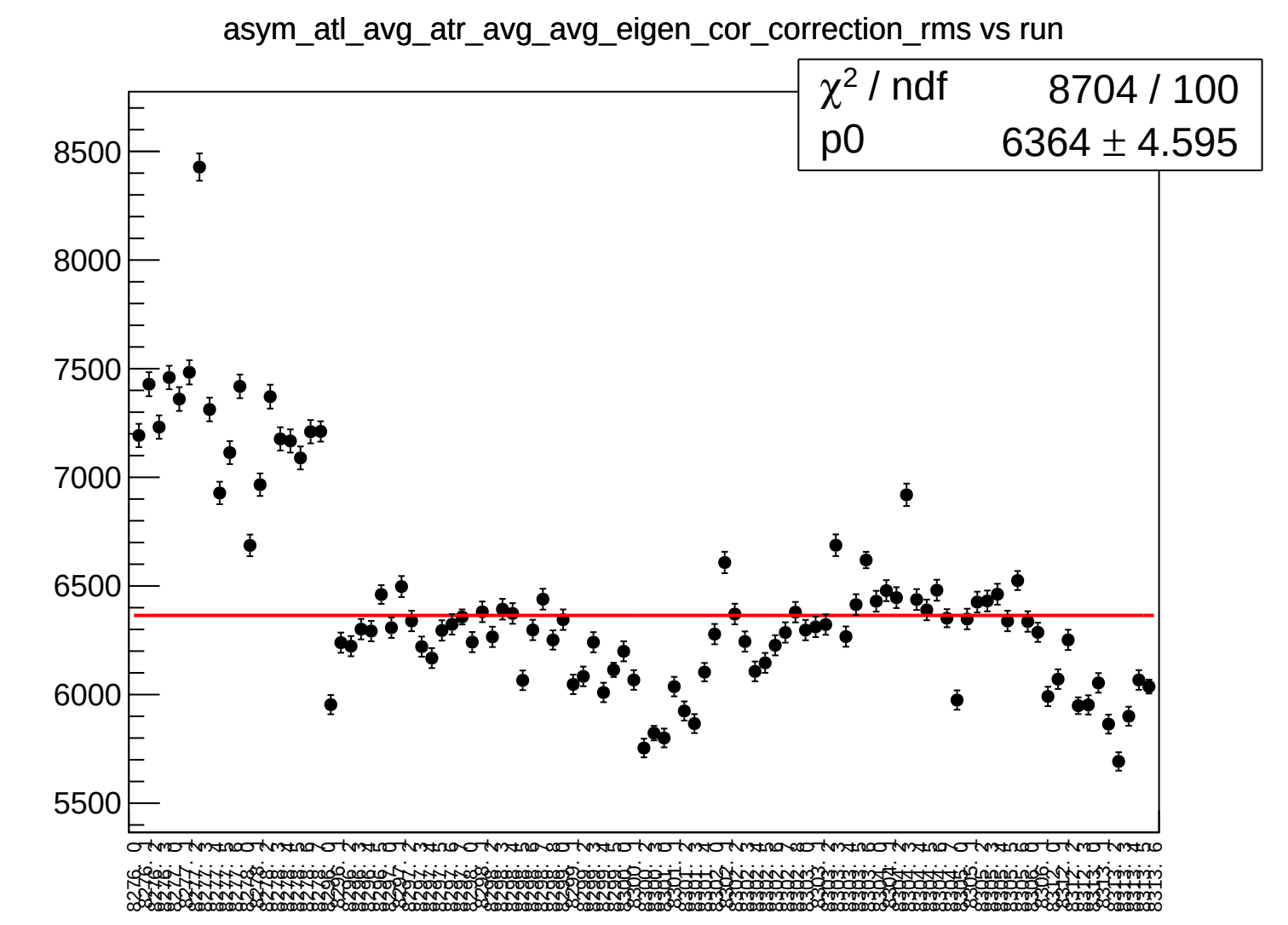

asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ^2 / ndf 8704 / 100
p0 6364 ± 4.595
8500
8000
7500
7000
6500
6000
5500

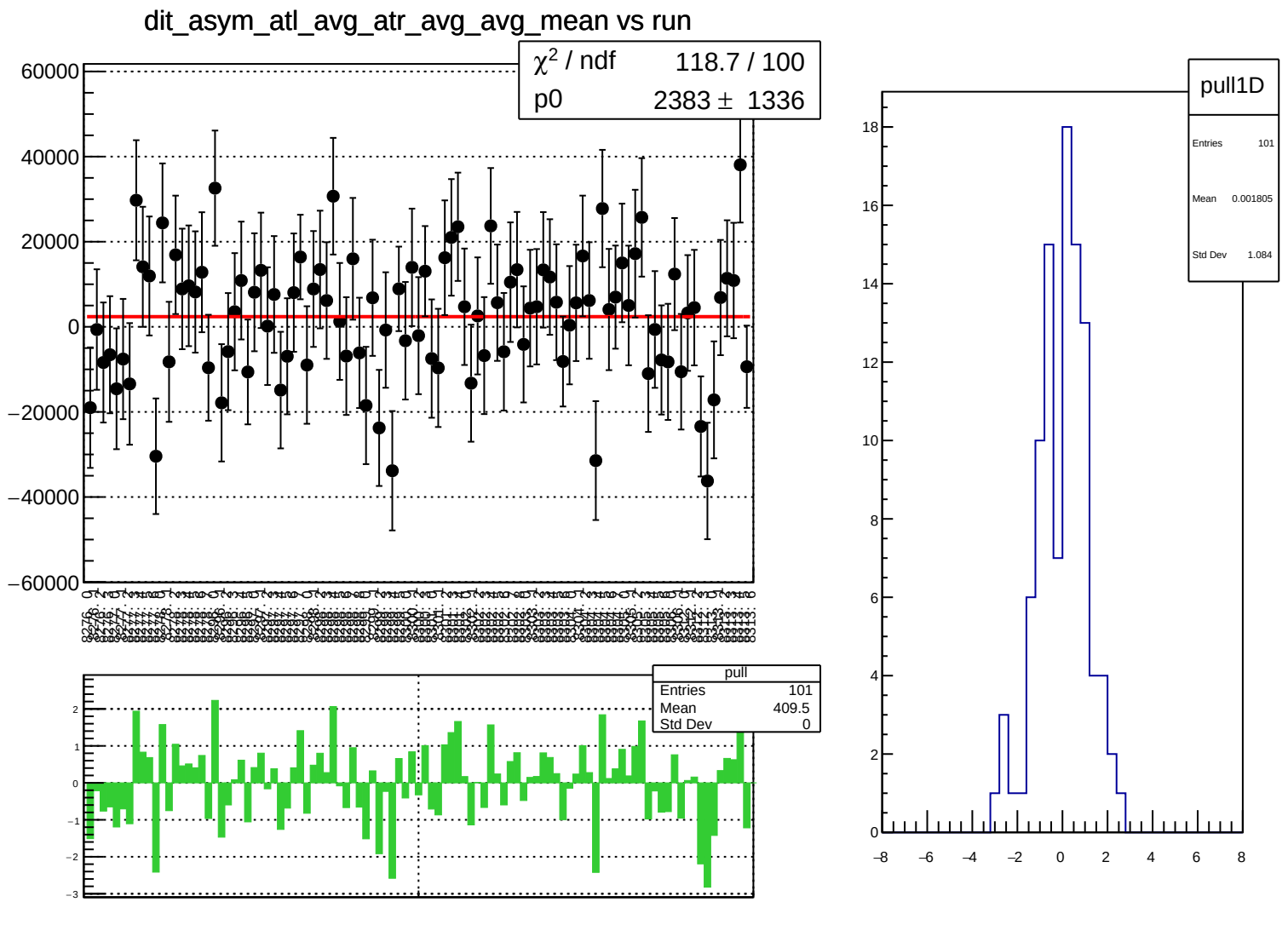

eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 113.4 / 100
p0 2769 ± 1326
60000
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 608.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.00214
Std Dev 1.06
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

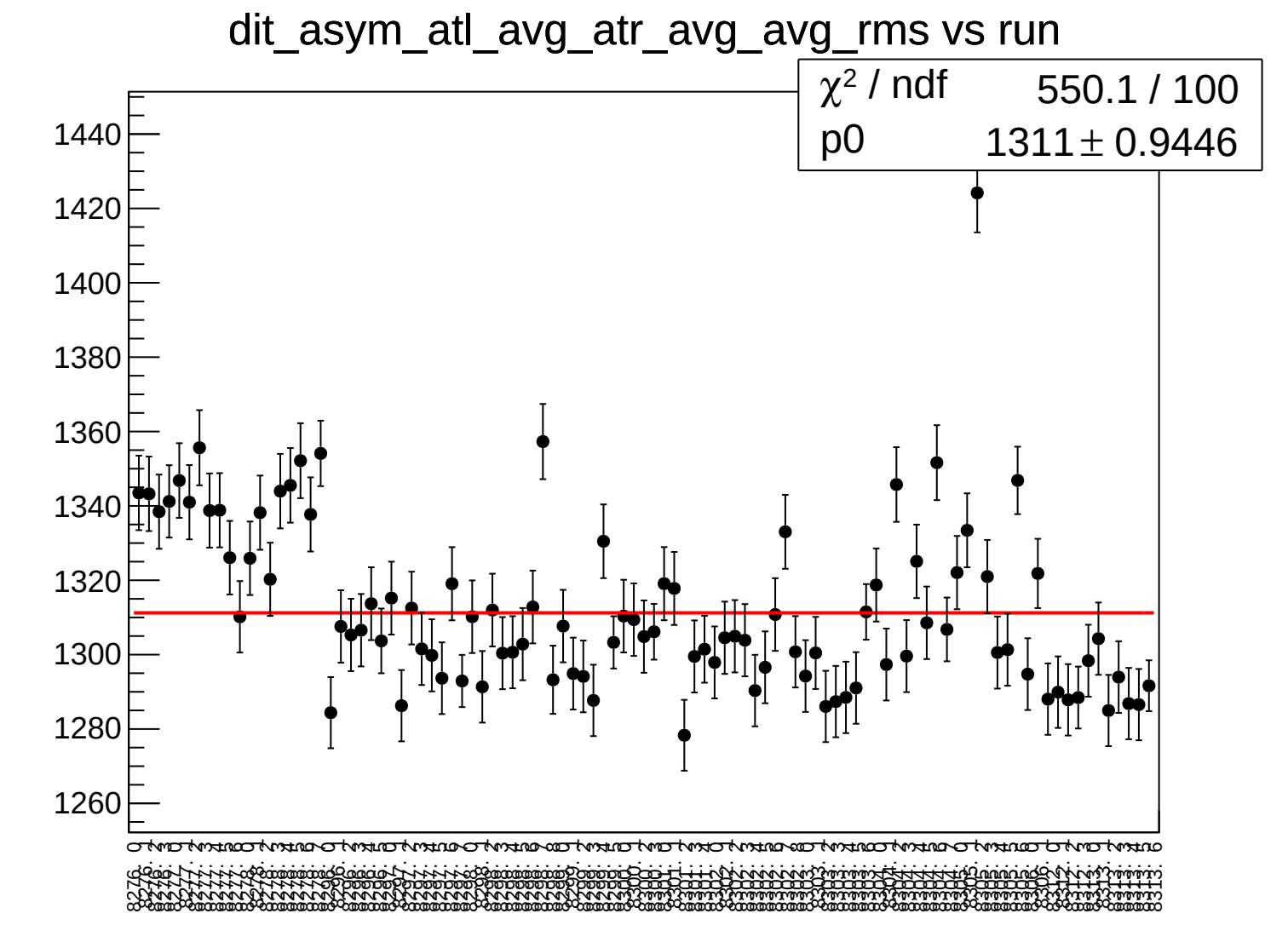

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 522.6 / 100
p0 1302 ± 0.9377
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240

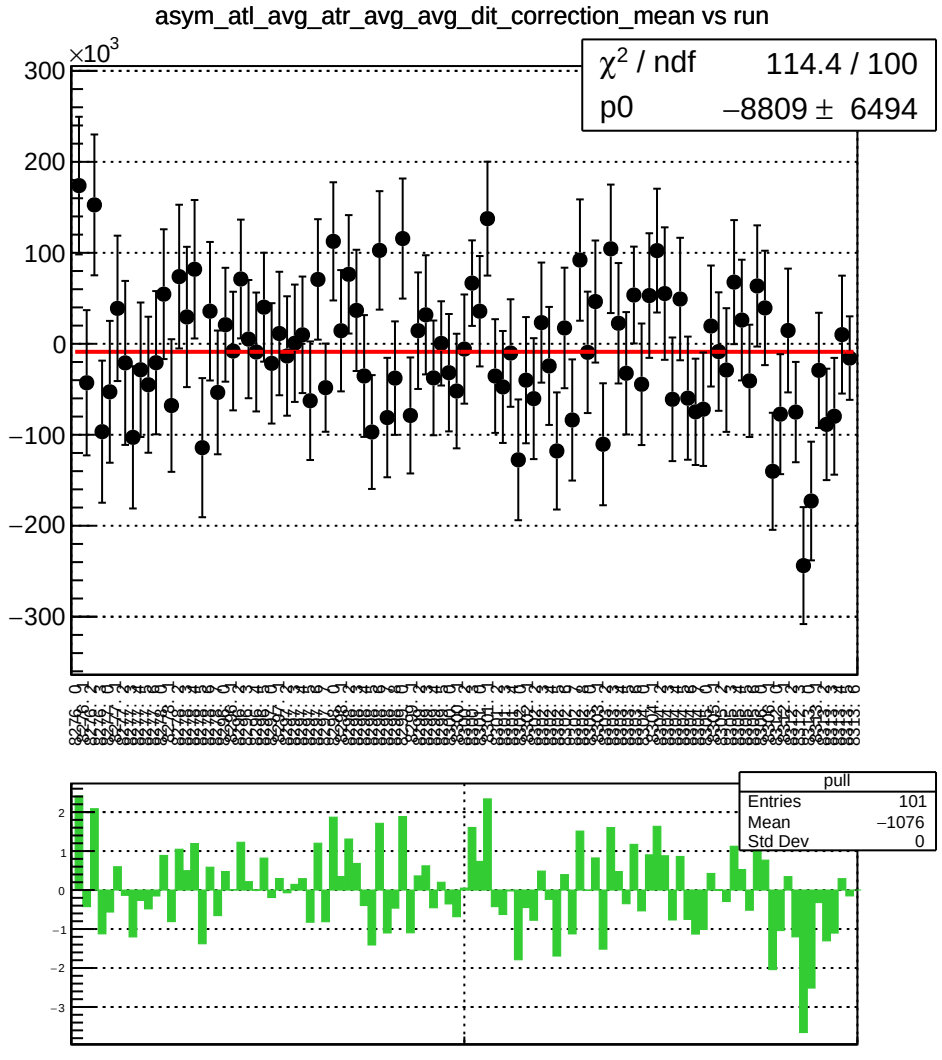

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 114.4 / 100
p0 −8858 ± 6498
pull
Entries 101
Mean −657.8
Std Dev 0

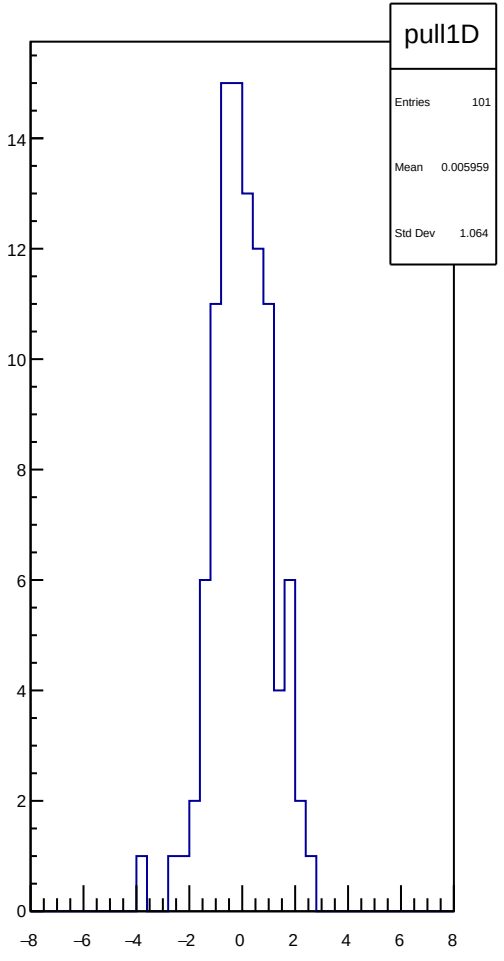

pull1D
Entries 101
Mean 0.009446
Std Dev 1.064

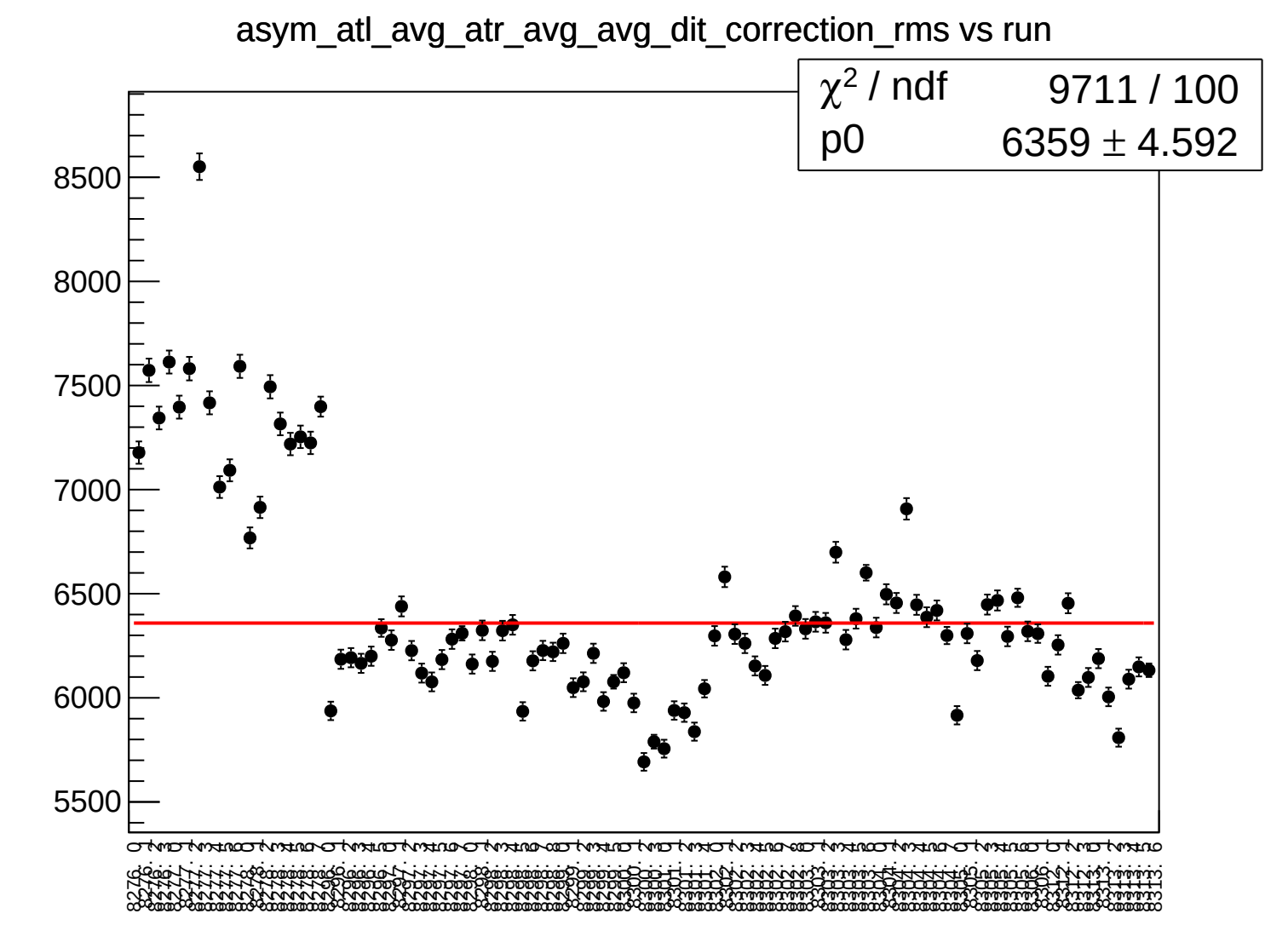

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 8704 / 100
p0 6364 ± 4.595
8500
8000
7500
7000
6500
6000
5500

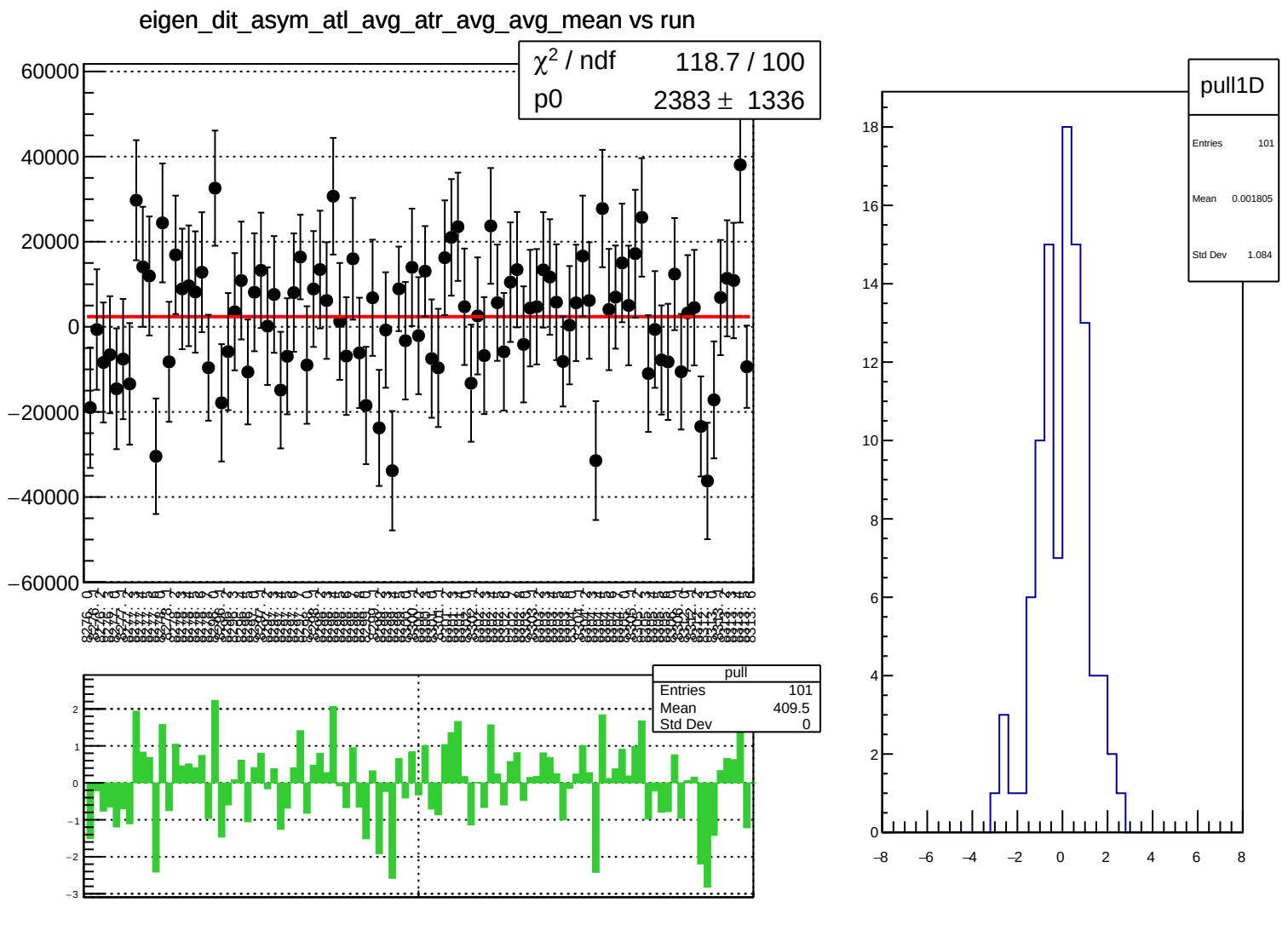

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 118.7 / 100
p0 2383 ± 1336
pull
Entries 101
Mean 409.5
Std Dev 0
pull1D
Entries 101
Mean 0.001805
Std Dev 1.084

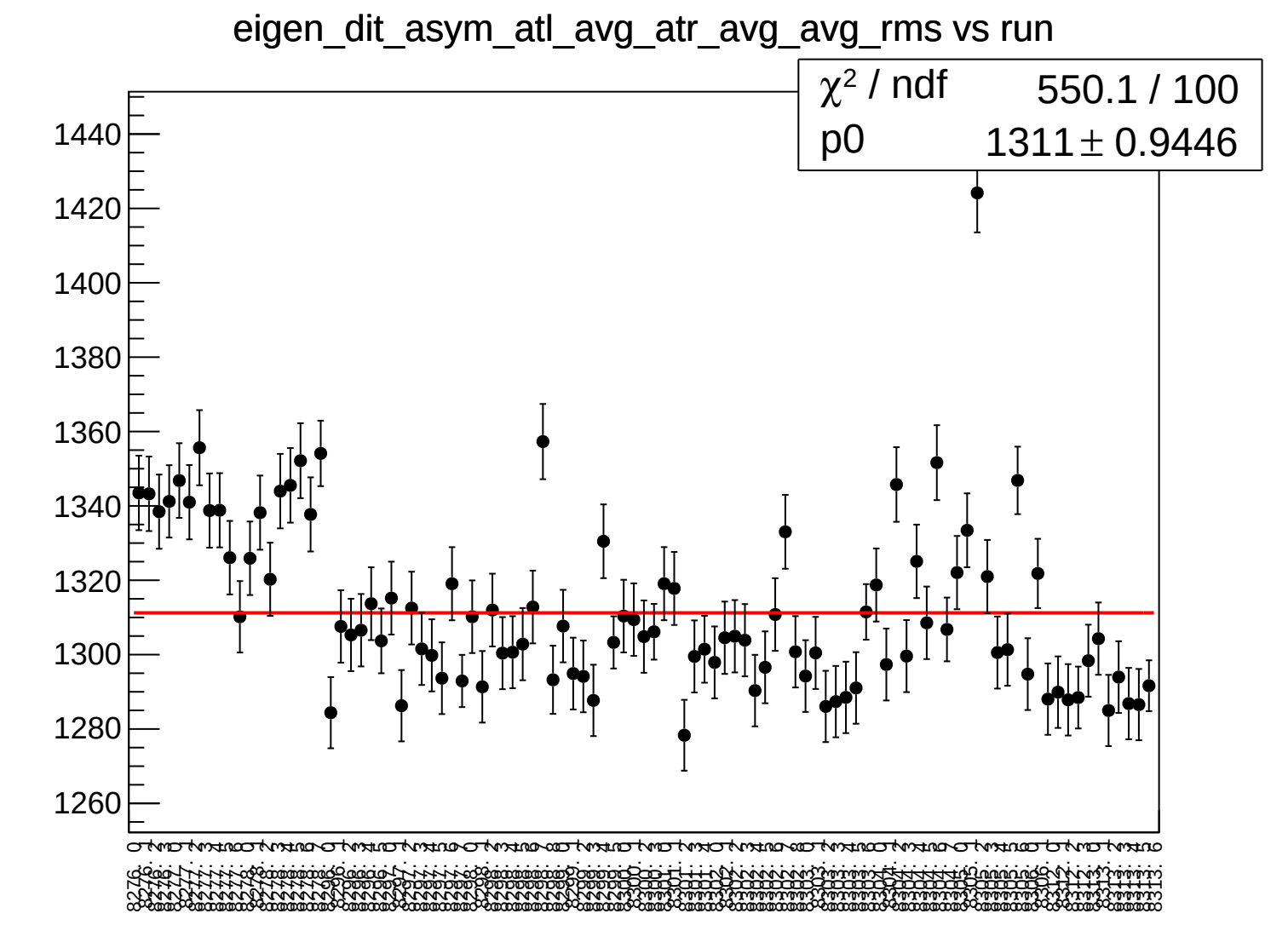

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 550.1 / 100
p0 1311 ± 0.9446
1440
1420
1400
1380
1360
1340
1320
1300
1280
1260

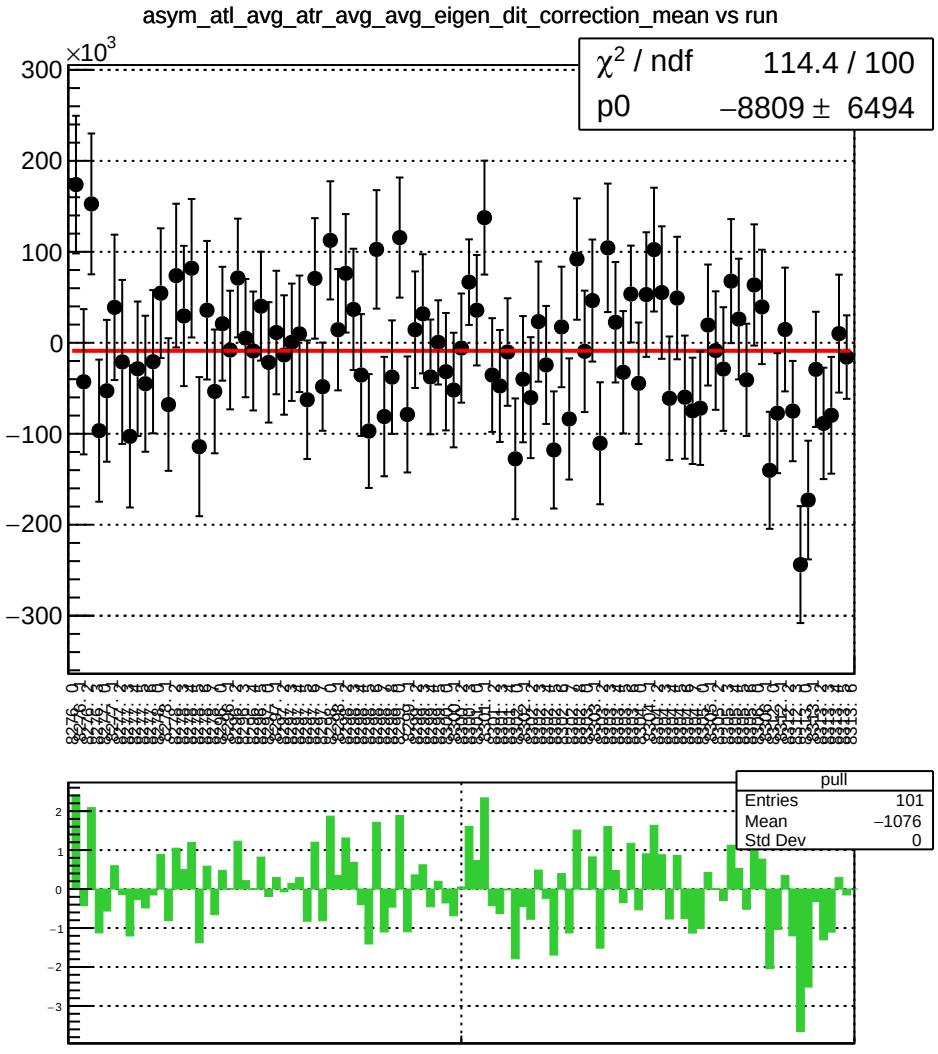

asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 114.4 / 100
p0 −8809 ± 6494
pull
Entries 101
Mean −1076
Std Dev 0

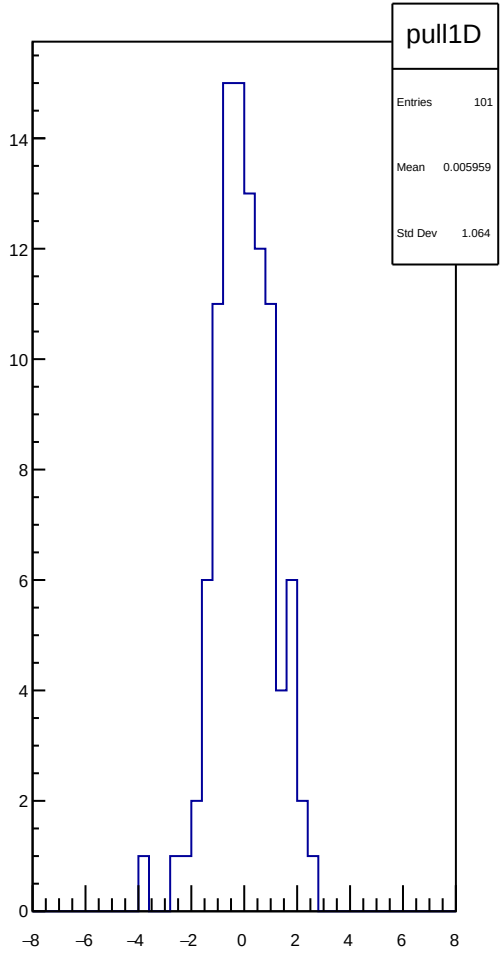

pull1D
Entries 101
Mean 0.005959
Std Dev 1.064

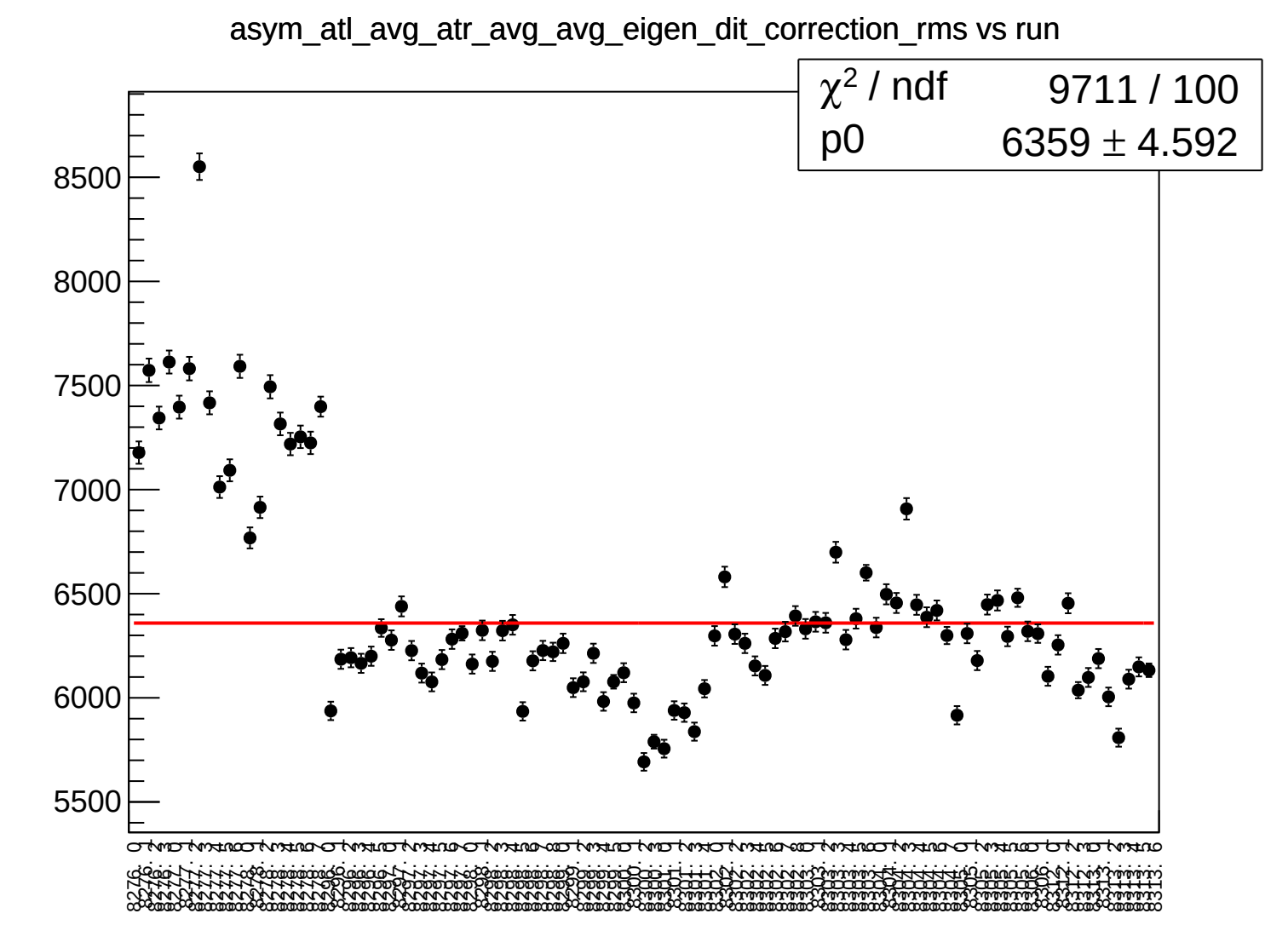

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ² / ndf 9711 / 100
p0 6359 ± 4.592
8500
8000
7500
7000
6500
6000
5500

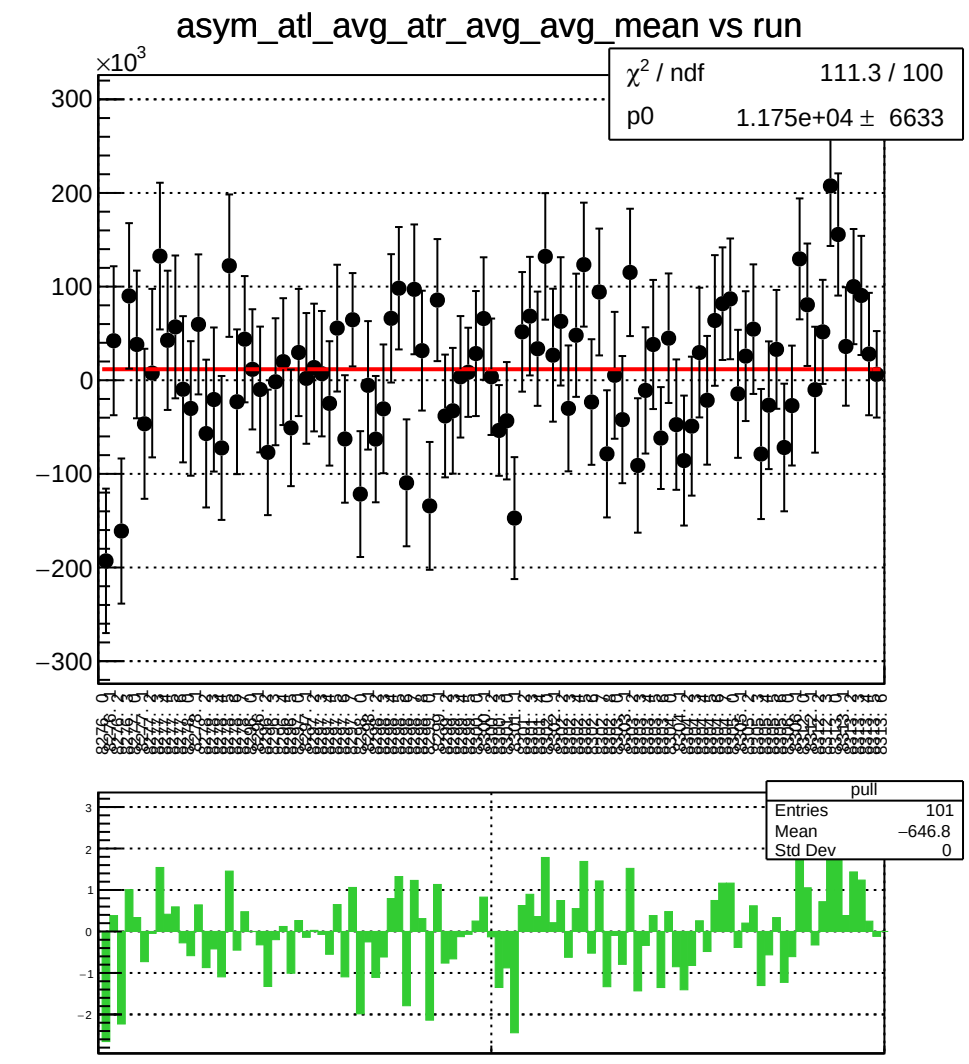

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 118.7 / 100
p0 2383 ± 1336
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean 409.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.001805
Std Dev 1.084
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

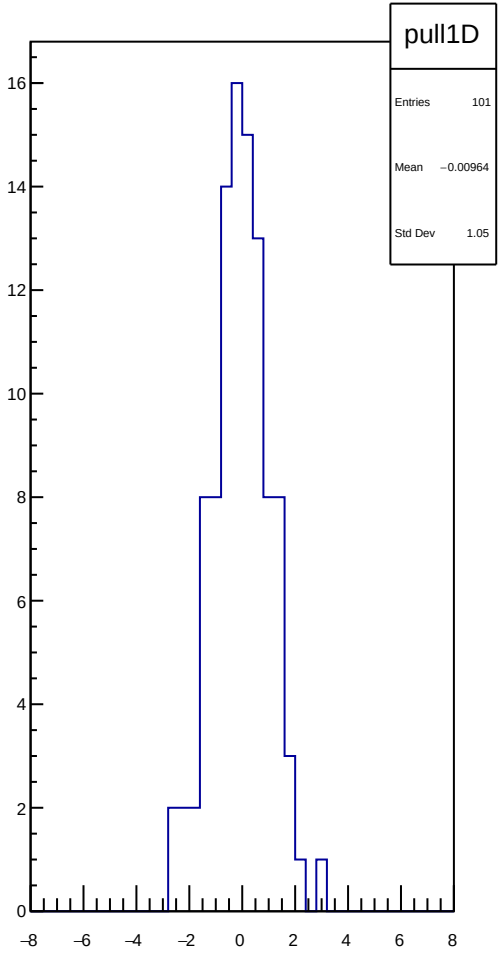

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 550.1 / 100
p0 1311 ± 0.9446
1440
1420
1400
1380
1360
1340
1320
1300
1280
1260

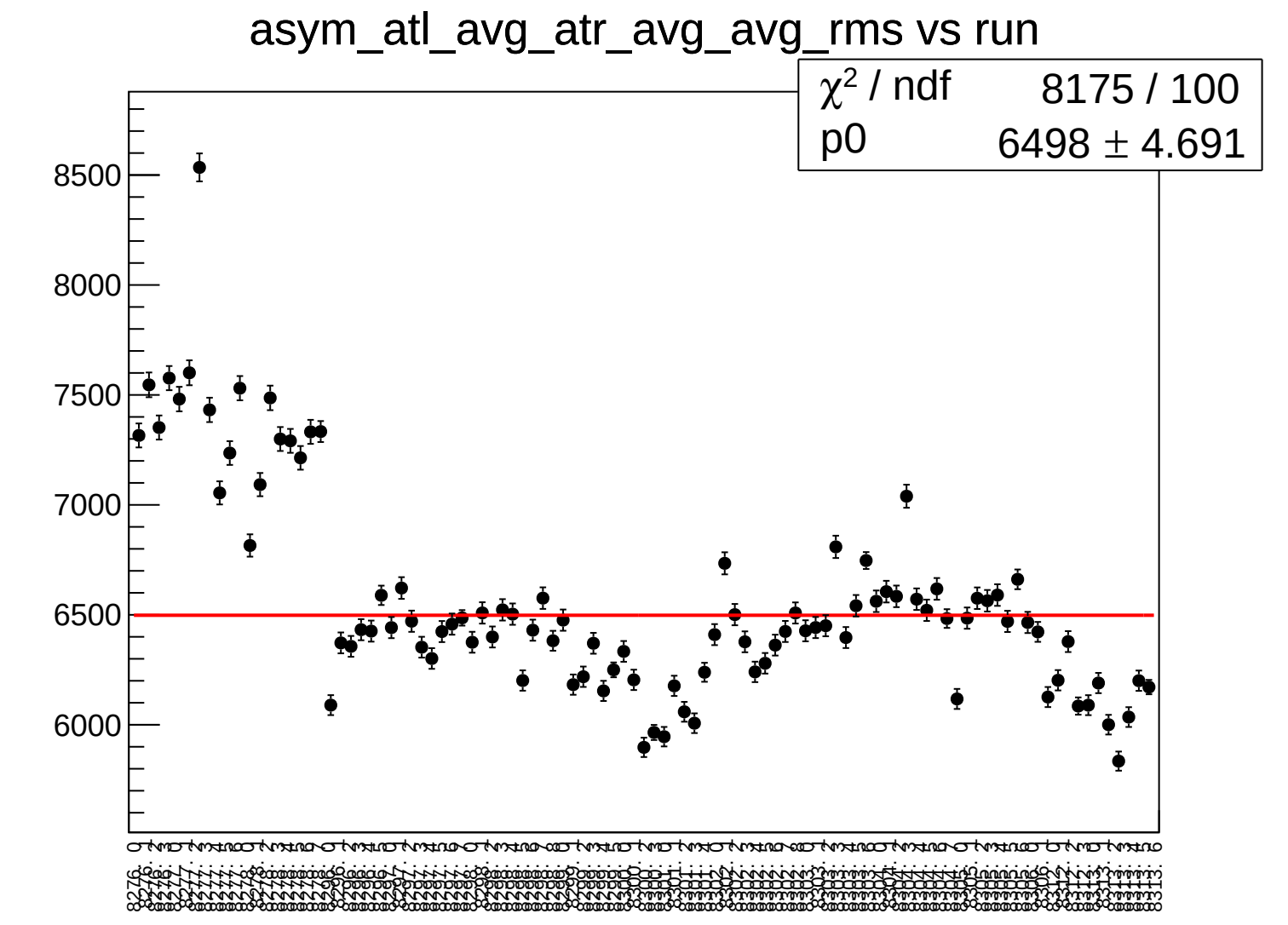

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 114.4 / 100
p0 −8809 ± 6494
300
200
100
0
−100
−200
−300
pull
Entries 101
Mean −1076
Std Dev 0
2
1
0
−1
−2
−3

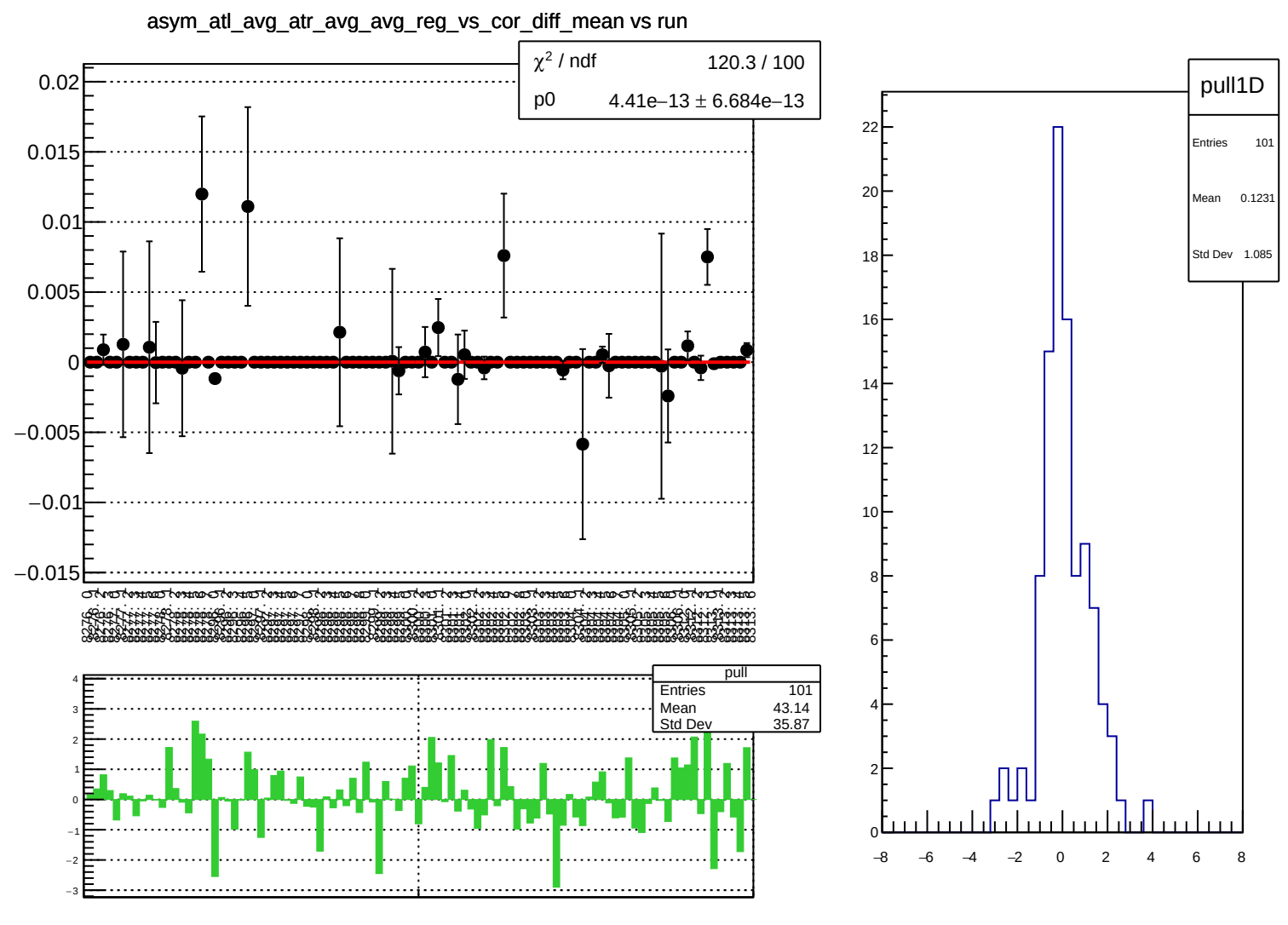

pull1D
Entries 101
Mean 0.005959
Std Dev 1.064
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

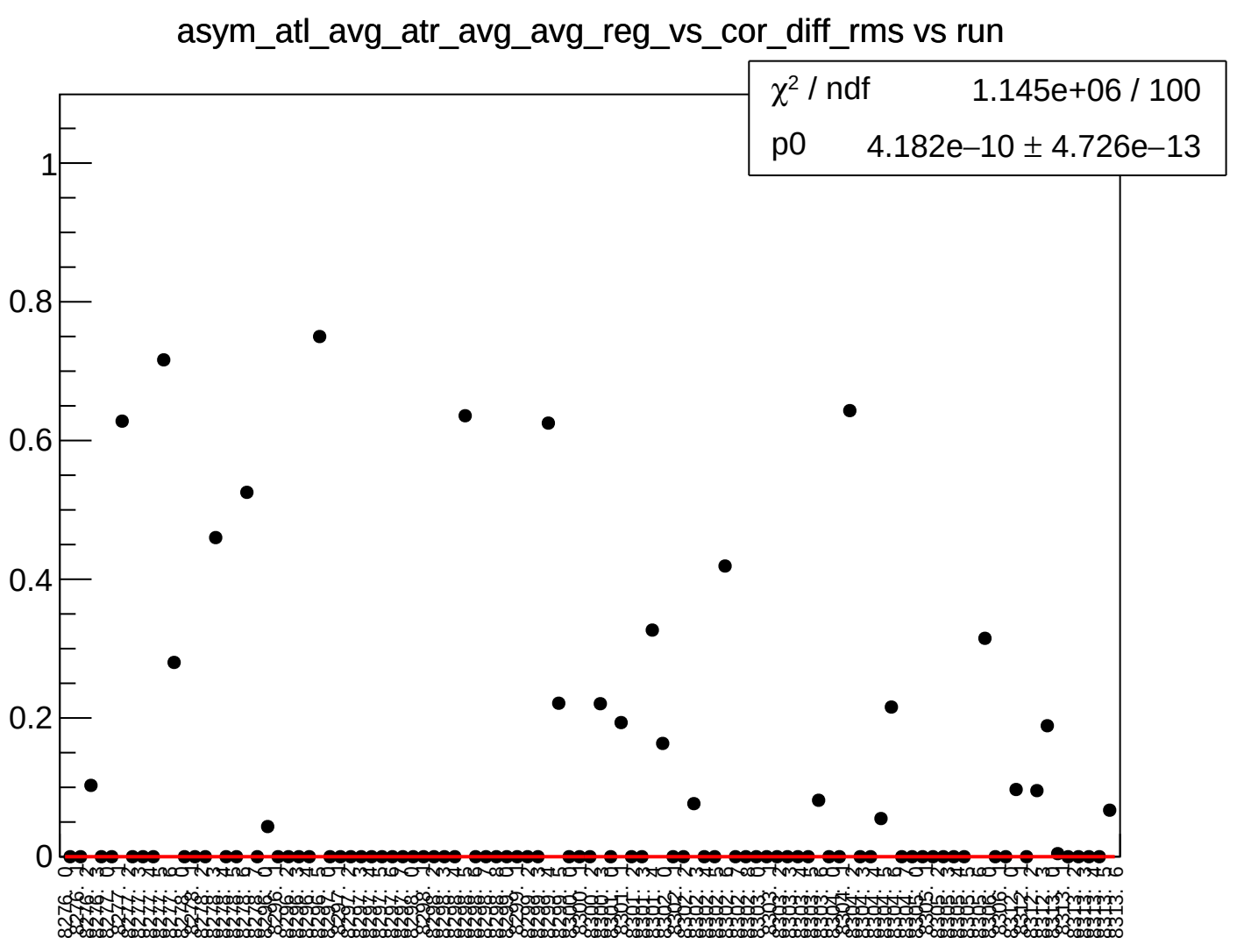

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 9711 / 100
p0 6359 ± 4.592
8500
8000
7500
7000
6500
6000
5500

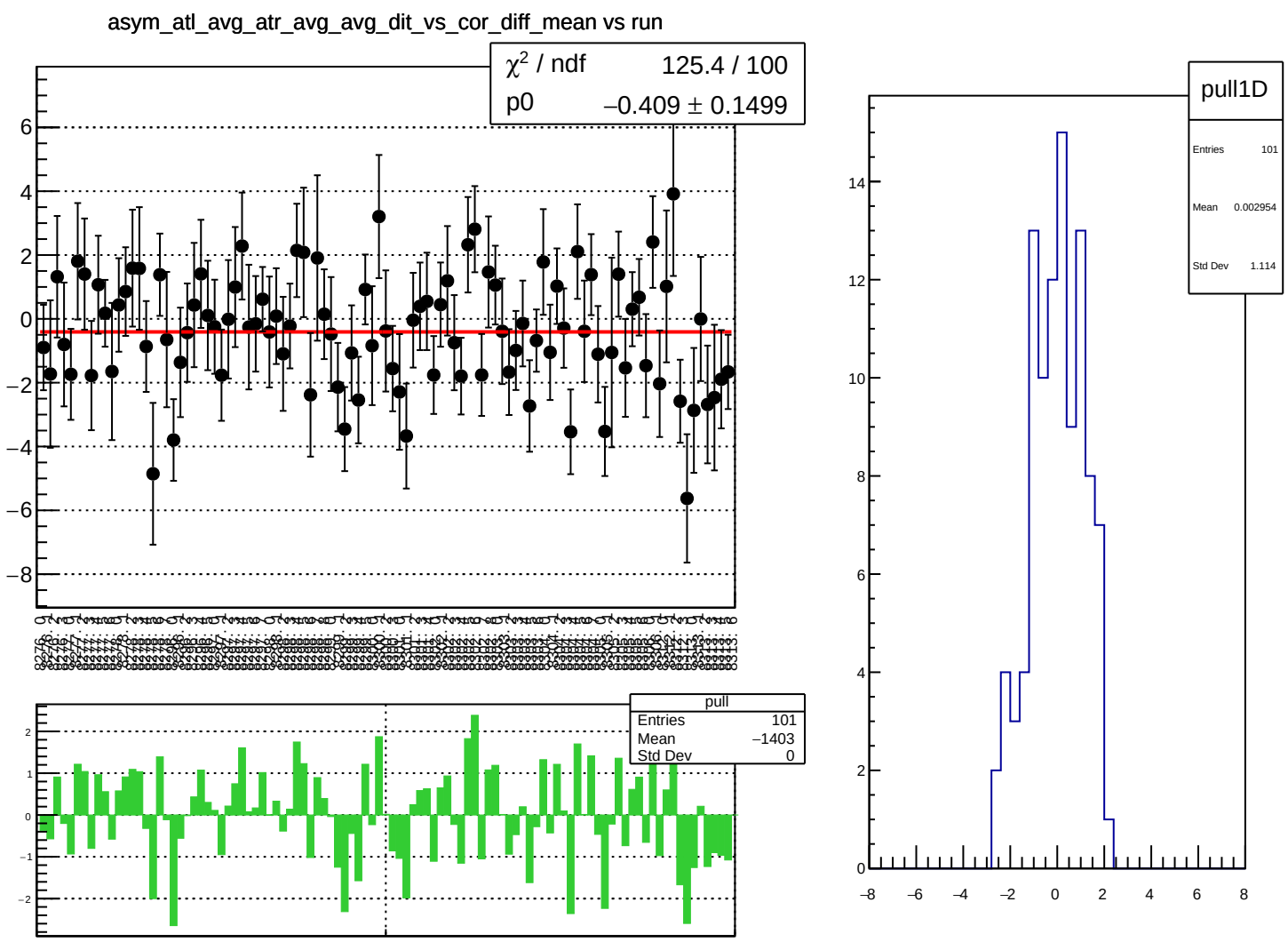

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 111.3 / 100
p0 1.175e+04 ± 6633
pull
Entries 101
Mean −646.8
Std Dev 0

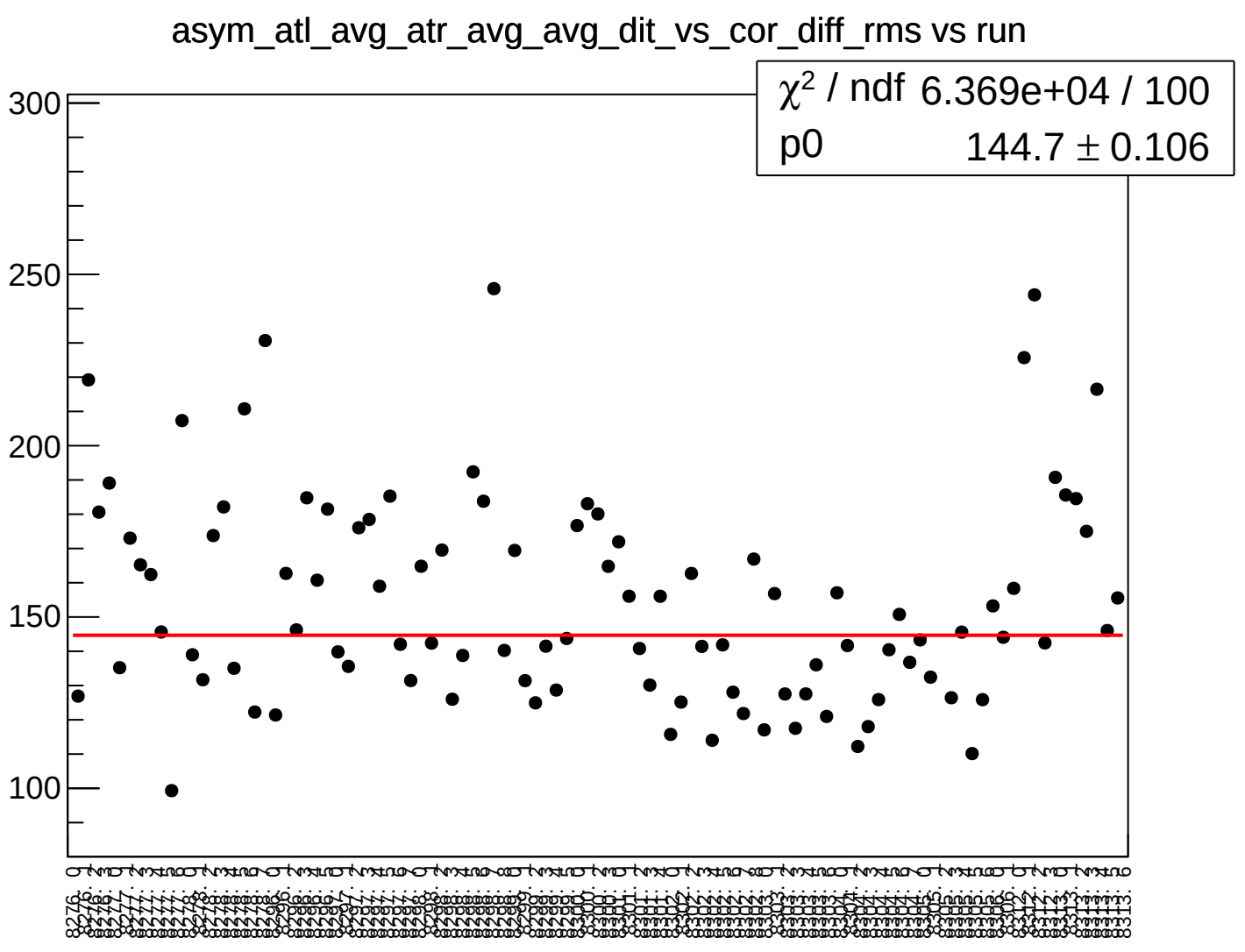

pull1D
Entries 101
Mean −0.00964
Std Dev 1.05

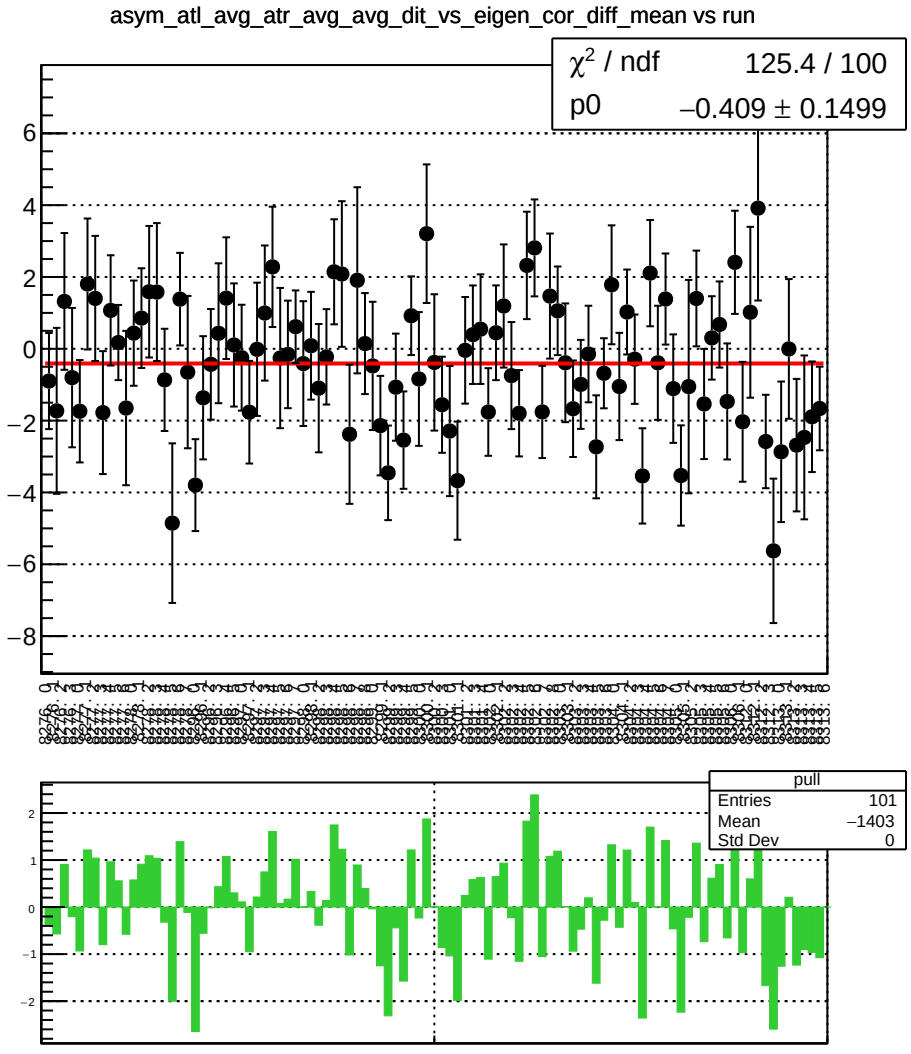

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 8175 / 100
p0 6498 ± 4.691
8500
8000
7500
7000
6500
6000

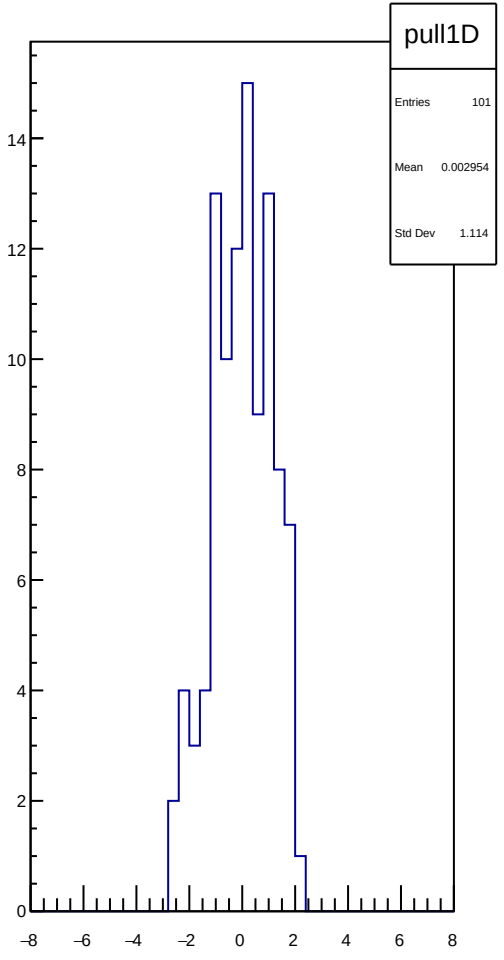

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 120.3 / 100
p0 4.41e−13 ± 6.684e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 101
Mean 43.14
Std Dev 35.87
4
3
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.1231
Std Dev 1.085
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

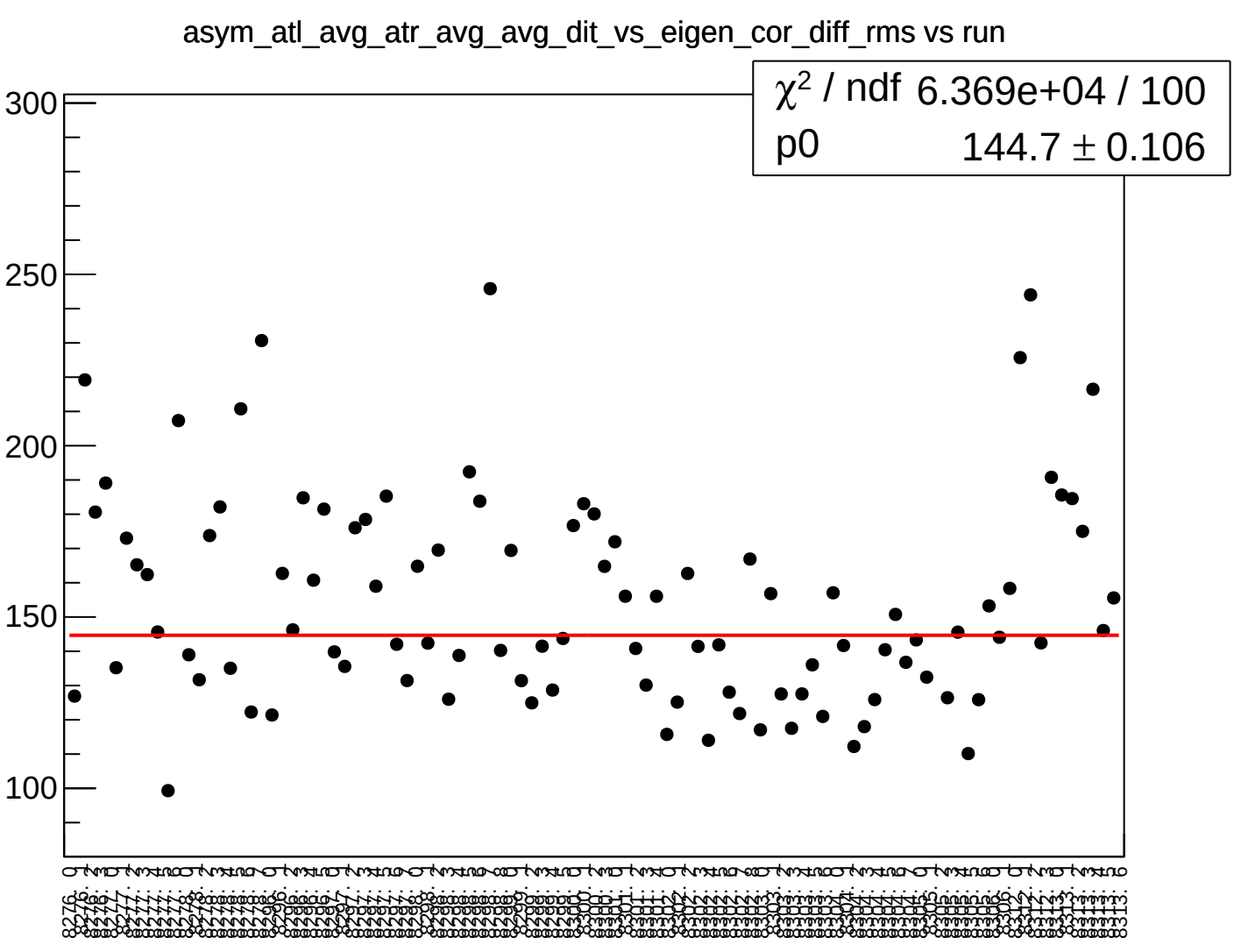

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.145e+06 / 100
p0 4.182e−10 ± 4.726e−13
1
0.8
0.6
0.4
0.2
0

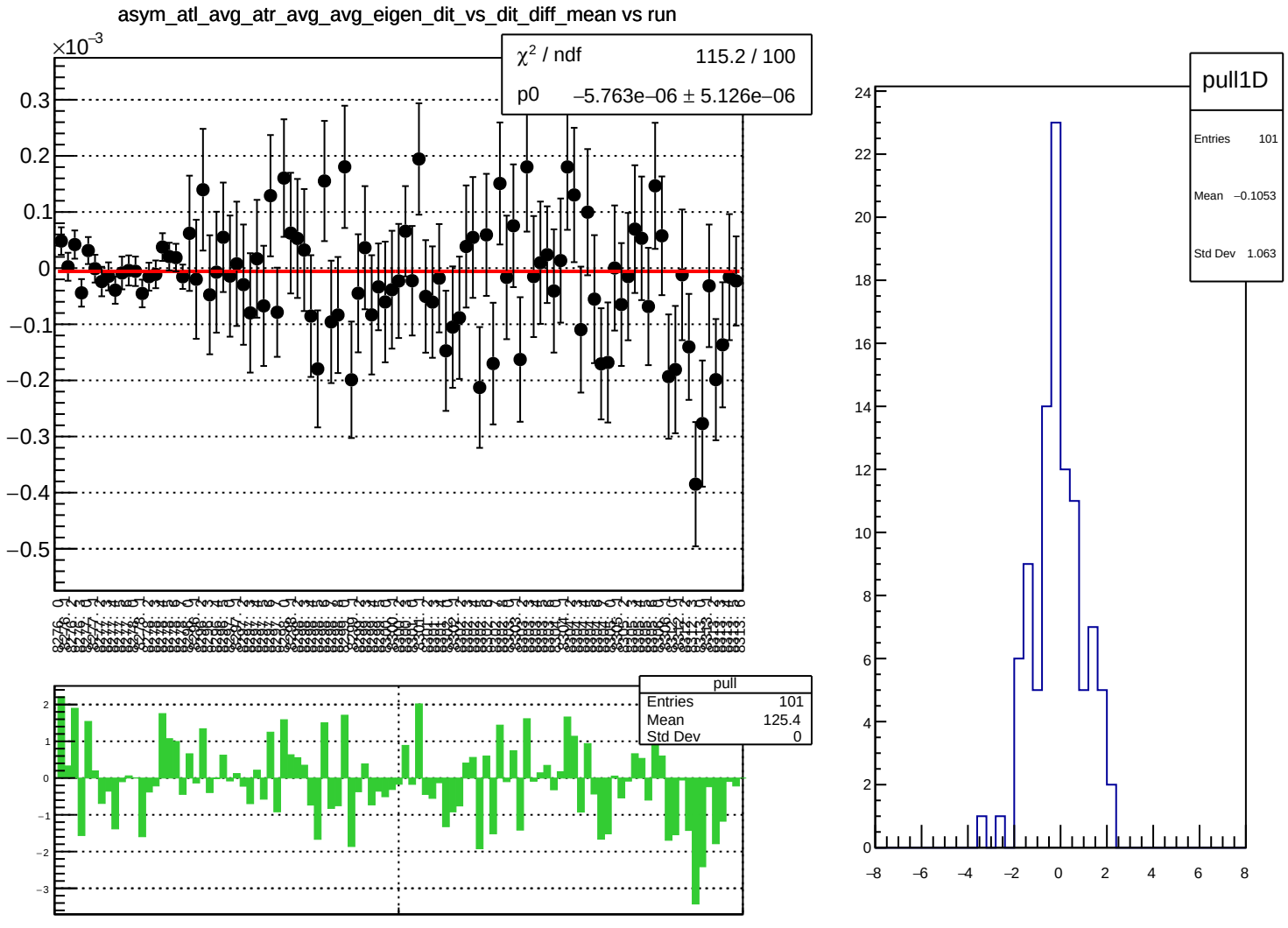

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 125.4 / 100
p0 −0.409 ± 0.1499
pull
Entries 101
Mean −1403
Std Dev 0
pull1D
Entries 101
Mean 0.002954
Std Dev 1.114

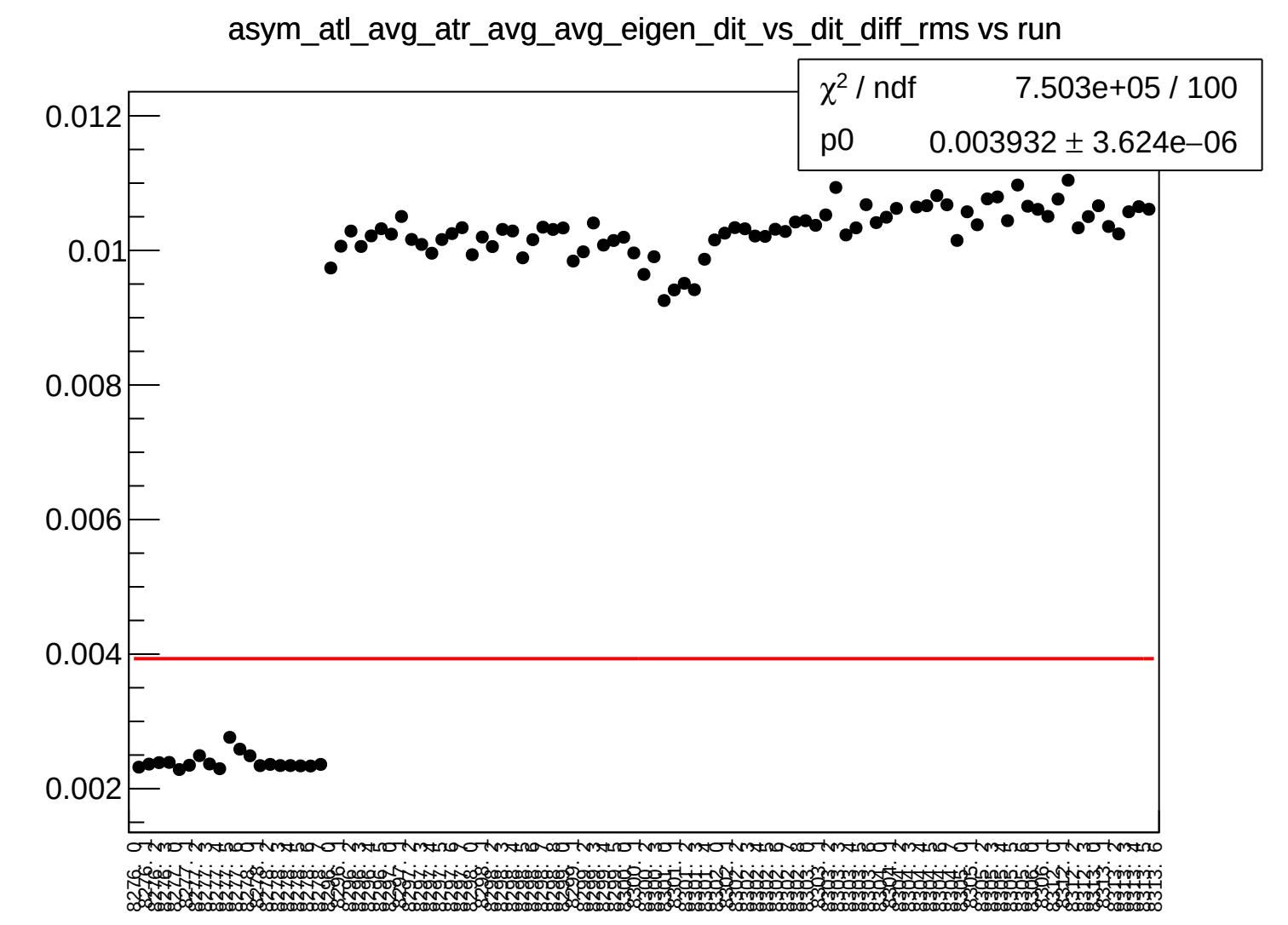

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.369e+04 / 100
p0 144.7 ± 0.106
300
250
200
150
100

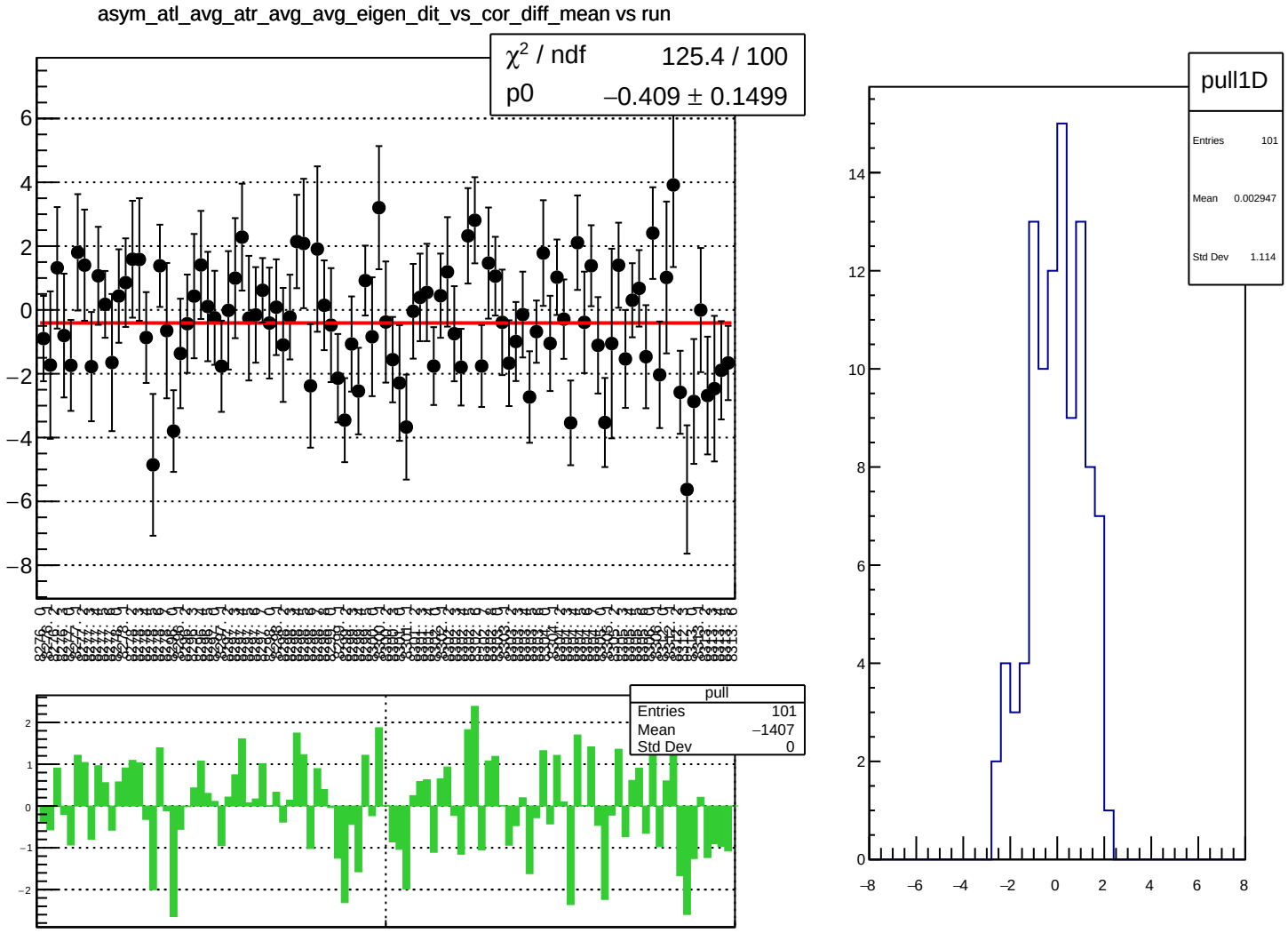

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 125.4 / 100
p0 −0.409 ± 0.1499
pull
Entries 101
Mean −1403
Std Dev 0

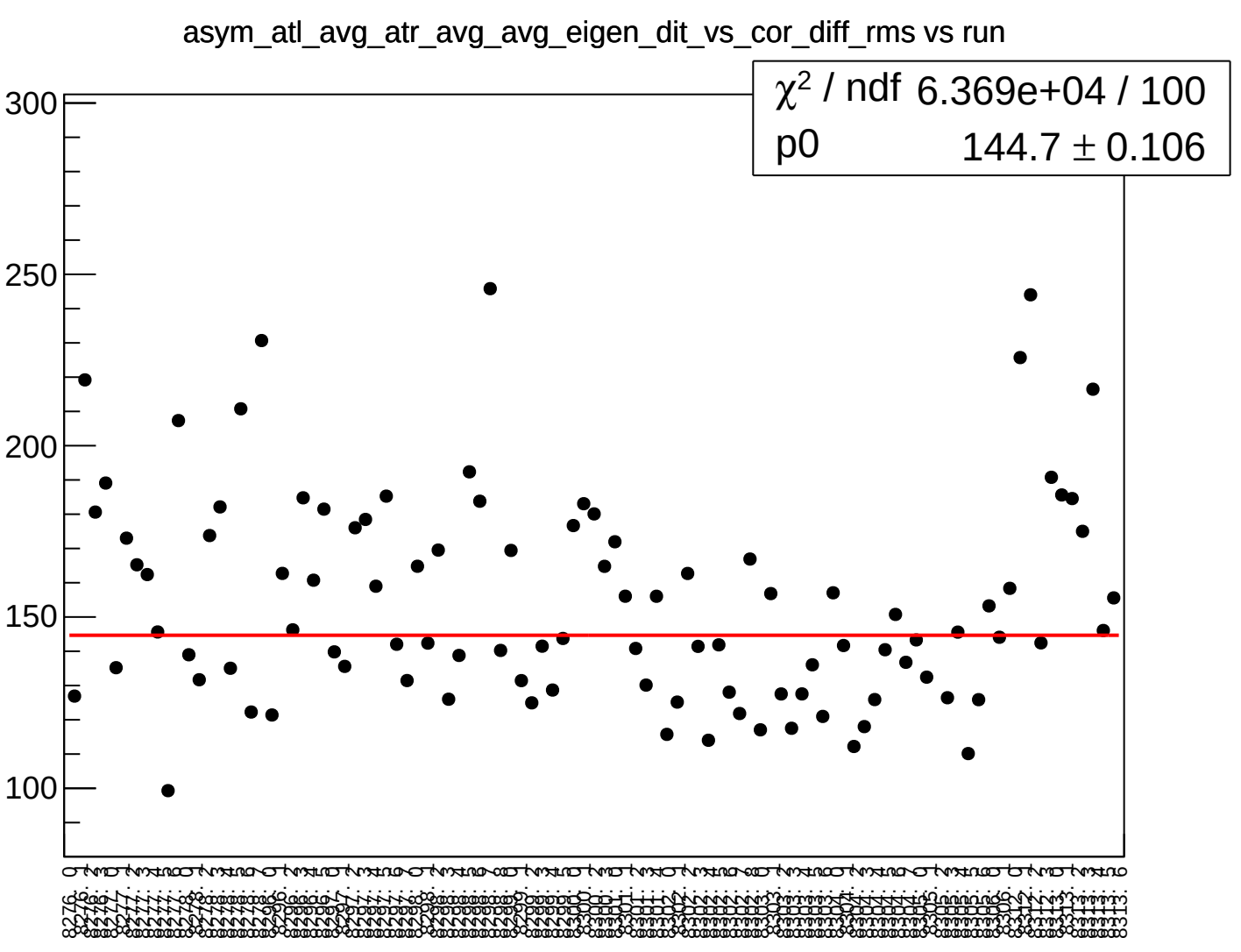

pull1D
Entries 101
Mean 0.002954
Std Dev 1.114

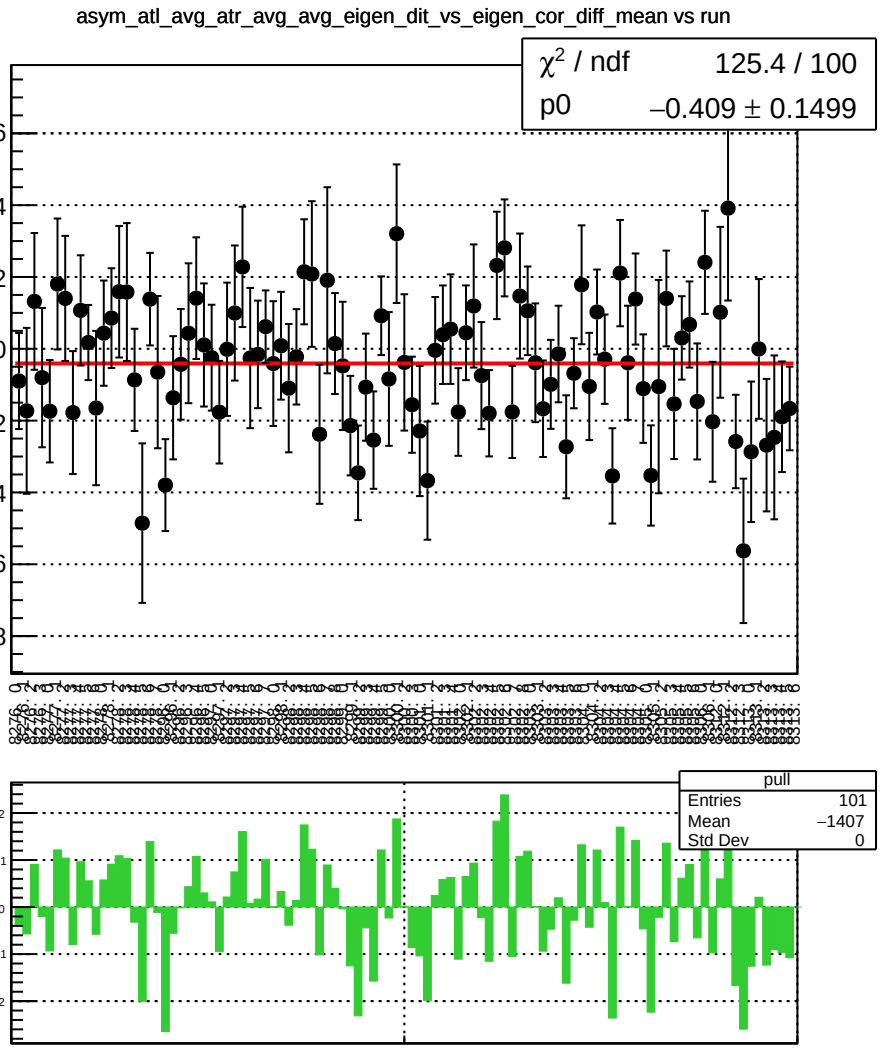

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.369e+04 / 100
p0 144.7 ± 0.106
300
250
200
150
100

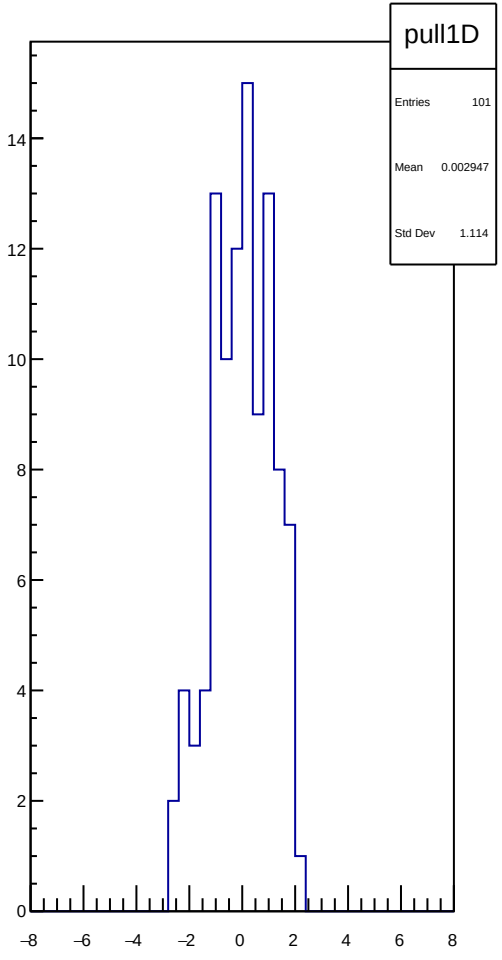

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 115.2 / 100
p0 −5.763e−06 ± 5.126e−06
pull
Entries 101
Mean 125.4
Std Dev 0
pull1D
Entries 101
Mean −0.1053
Std Dev 1.063

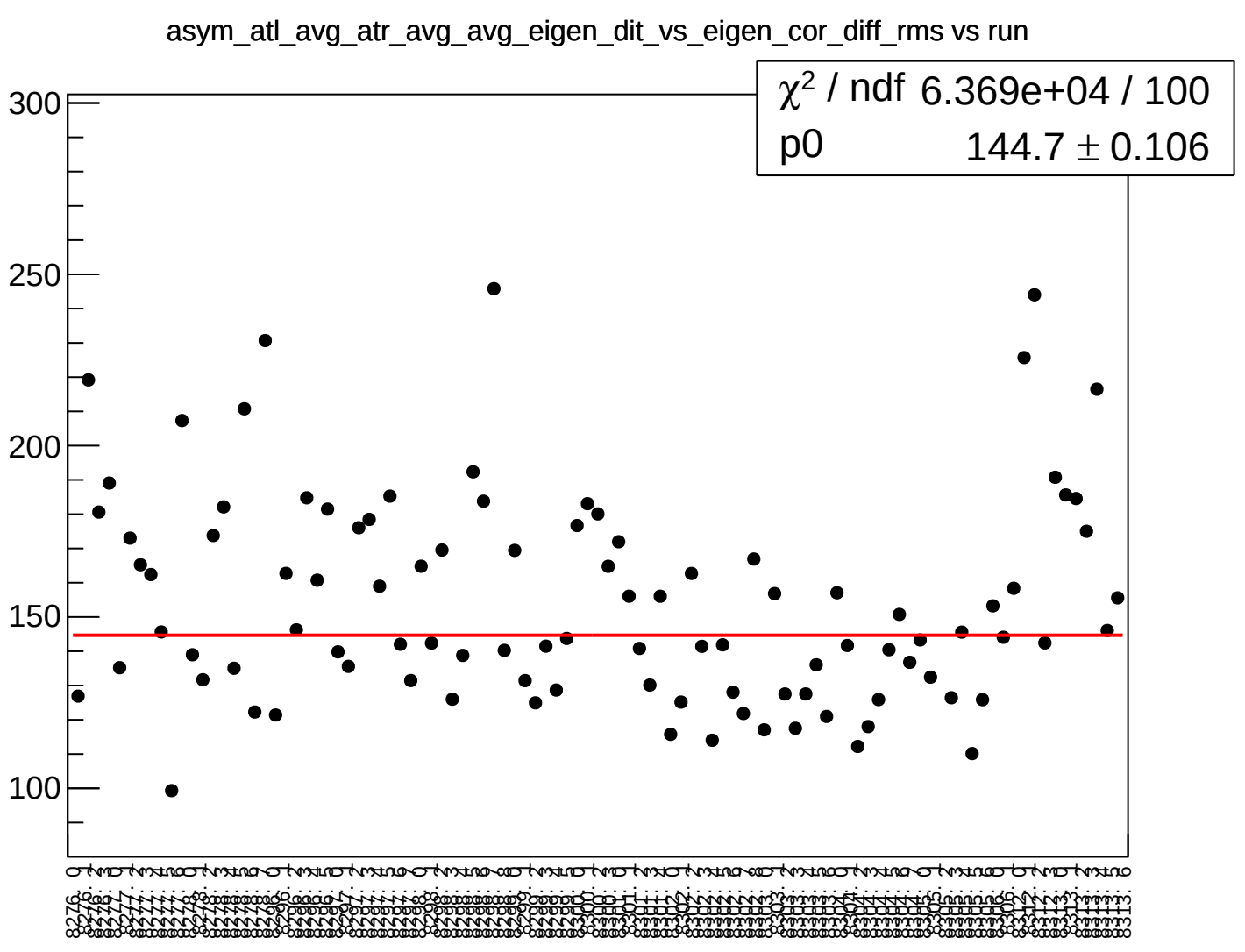

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.503e+05 / 100
p0 0.003932 ± 3.624e−06
0.012
0.01
0.008
0.006
0.004
0.002

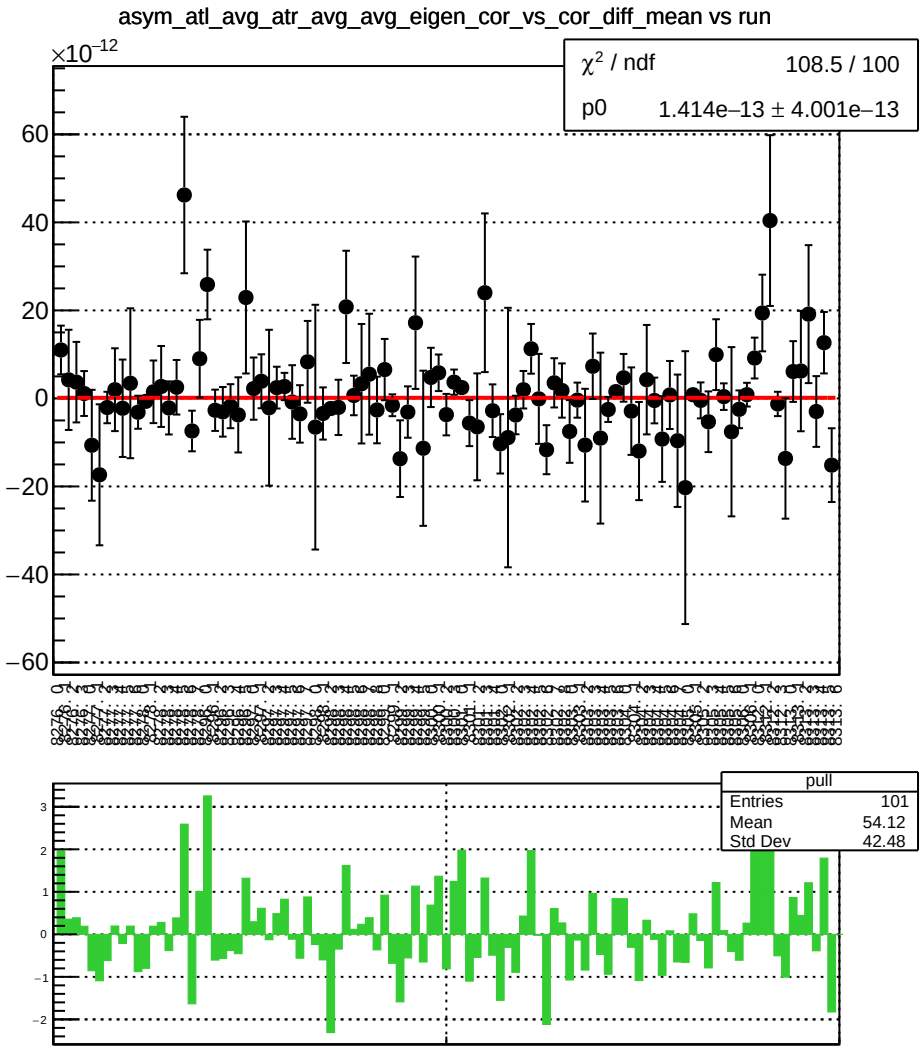

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 125.4 / 100
p0 −0.409 ± 0.1499
pull
Entries 101
Mean −1407
Std Dev 0
pull1D
Entries 101
Mean 0.002947
Std Dev 1.114

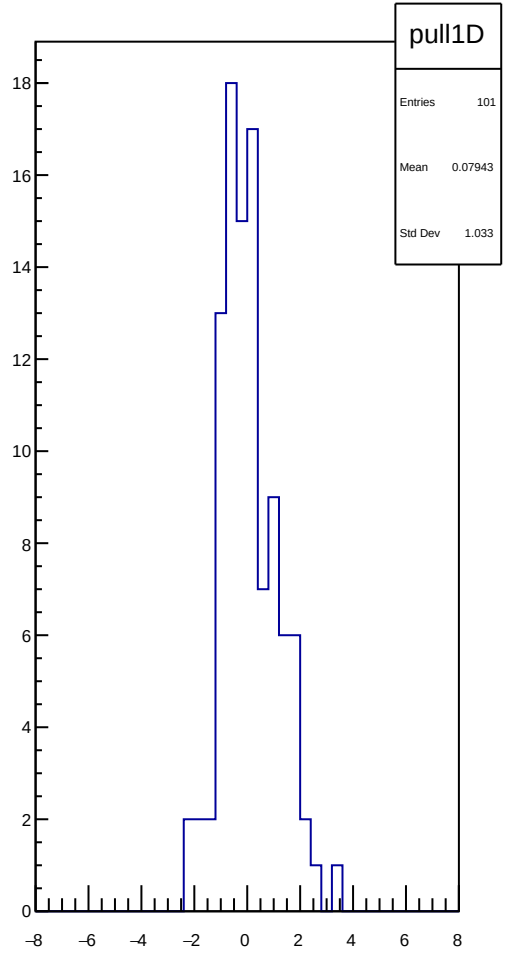

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.369e+04 / 100
p0 144.7 ± 0.106
300
250
200
150
100

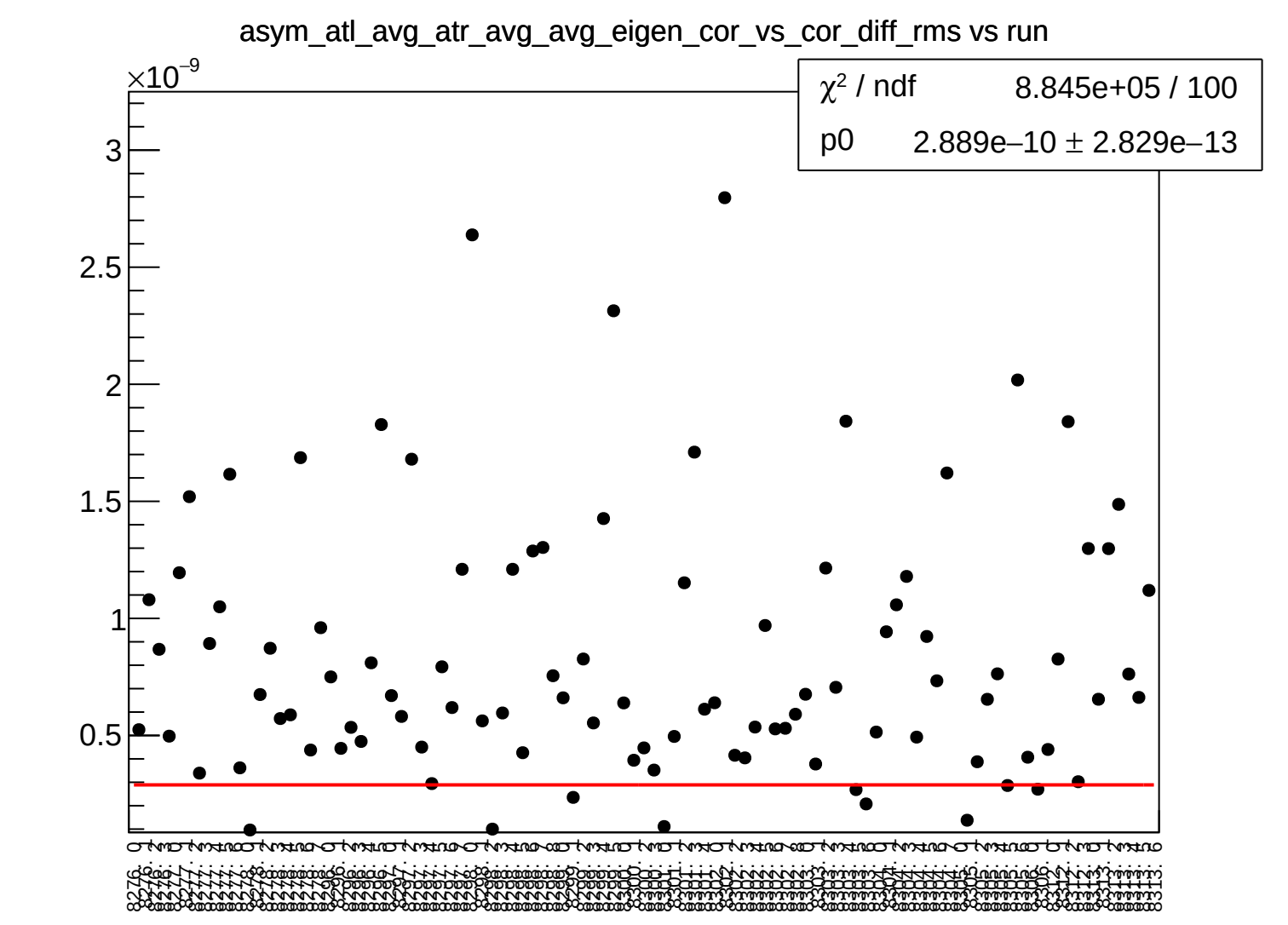

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 125.4 / 100
p0 −0.409 ± 0.1499
pull
Entries 101
Mean −1407
Std Dev 0

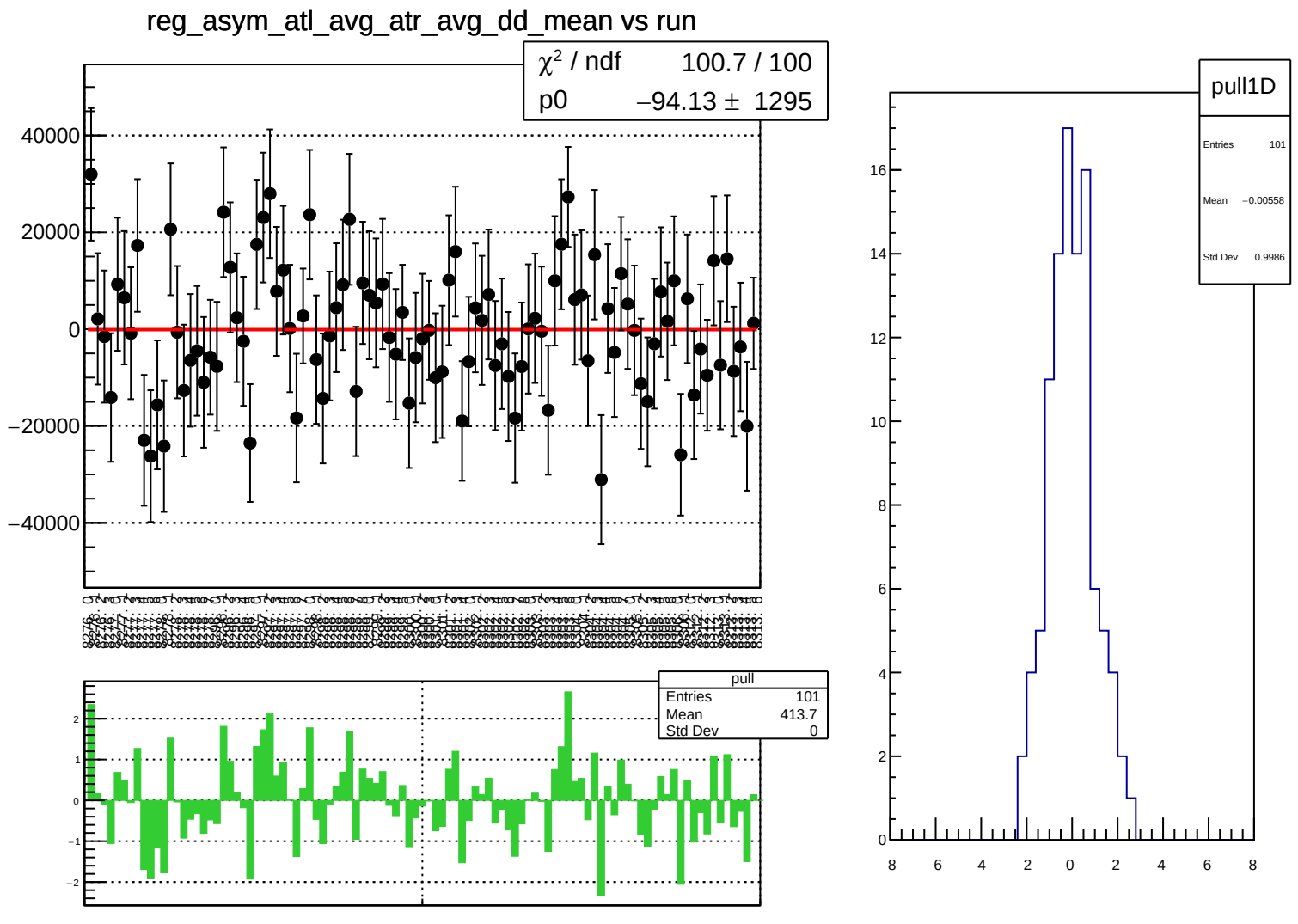

pull1D
Entries 101
Mean 0.002947
Std Dev 1.114

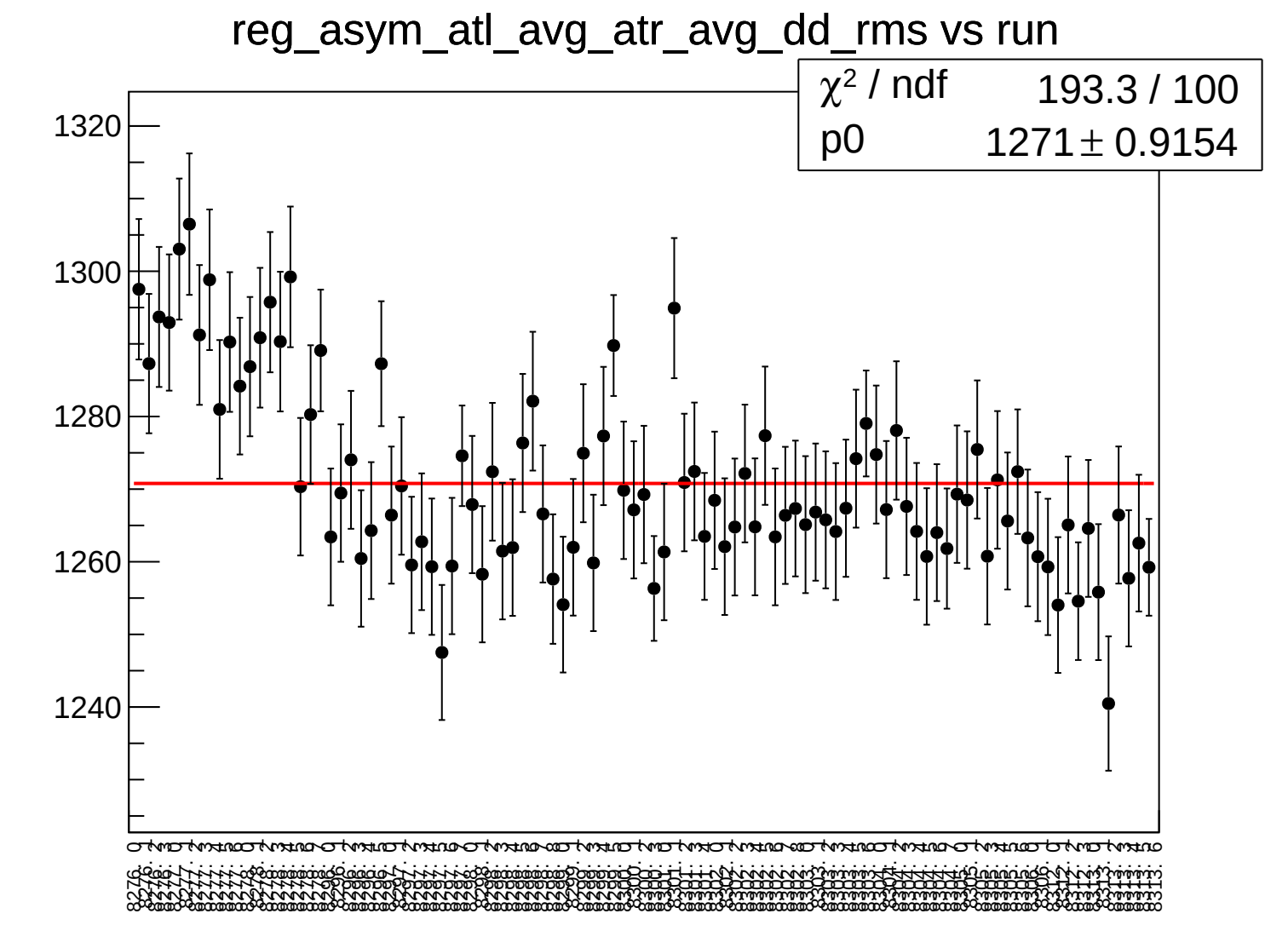

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.369e+04 / 100
p0 144.7 ± 0.106
300
250
200
150
100

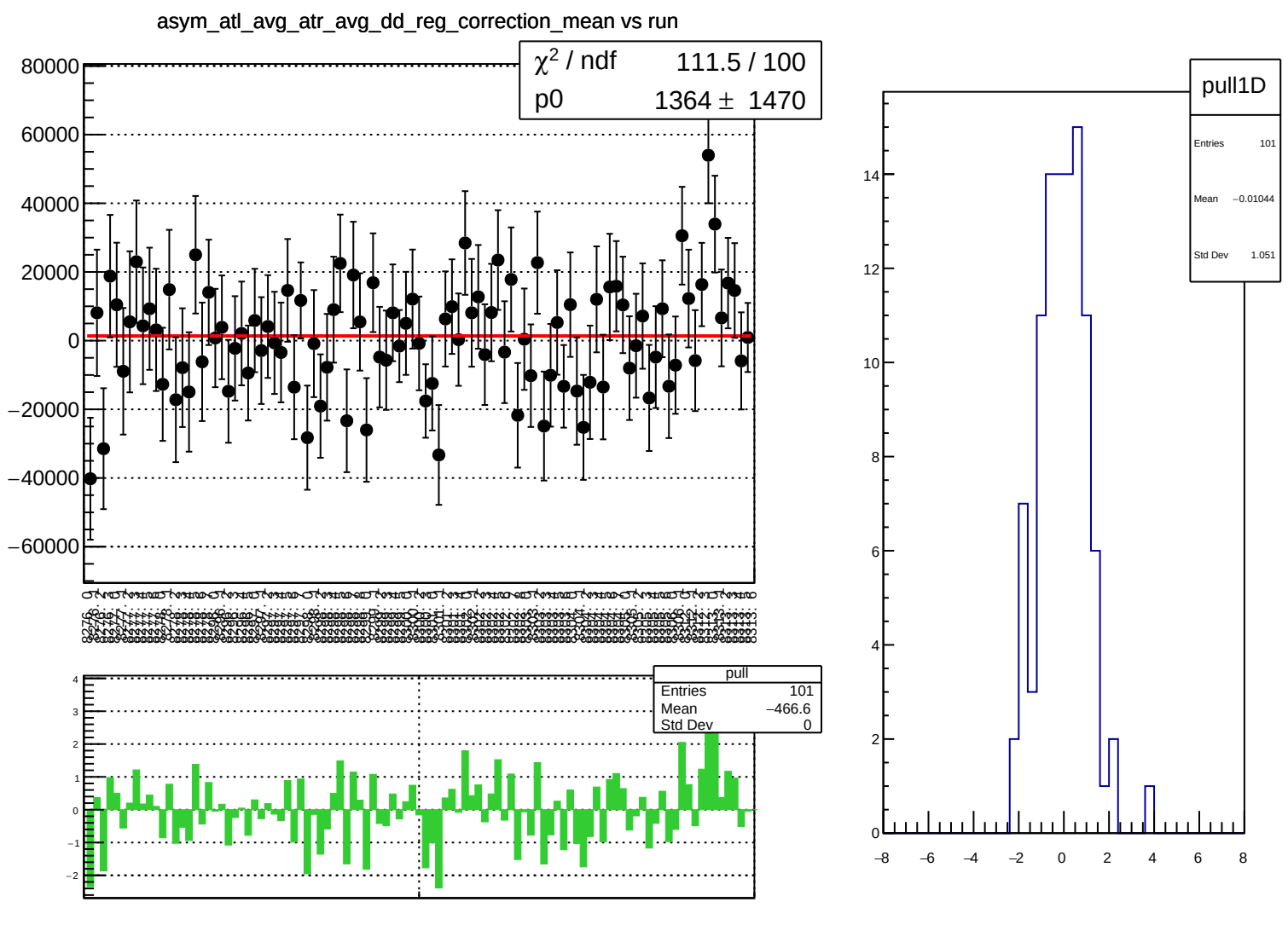

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 108.5 / 100
p0 1.414e−13 ± 4.001e−13
pull
Entries 101
Mean 54.12
Std Dev 42.48

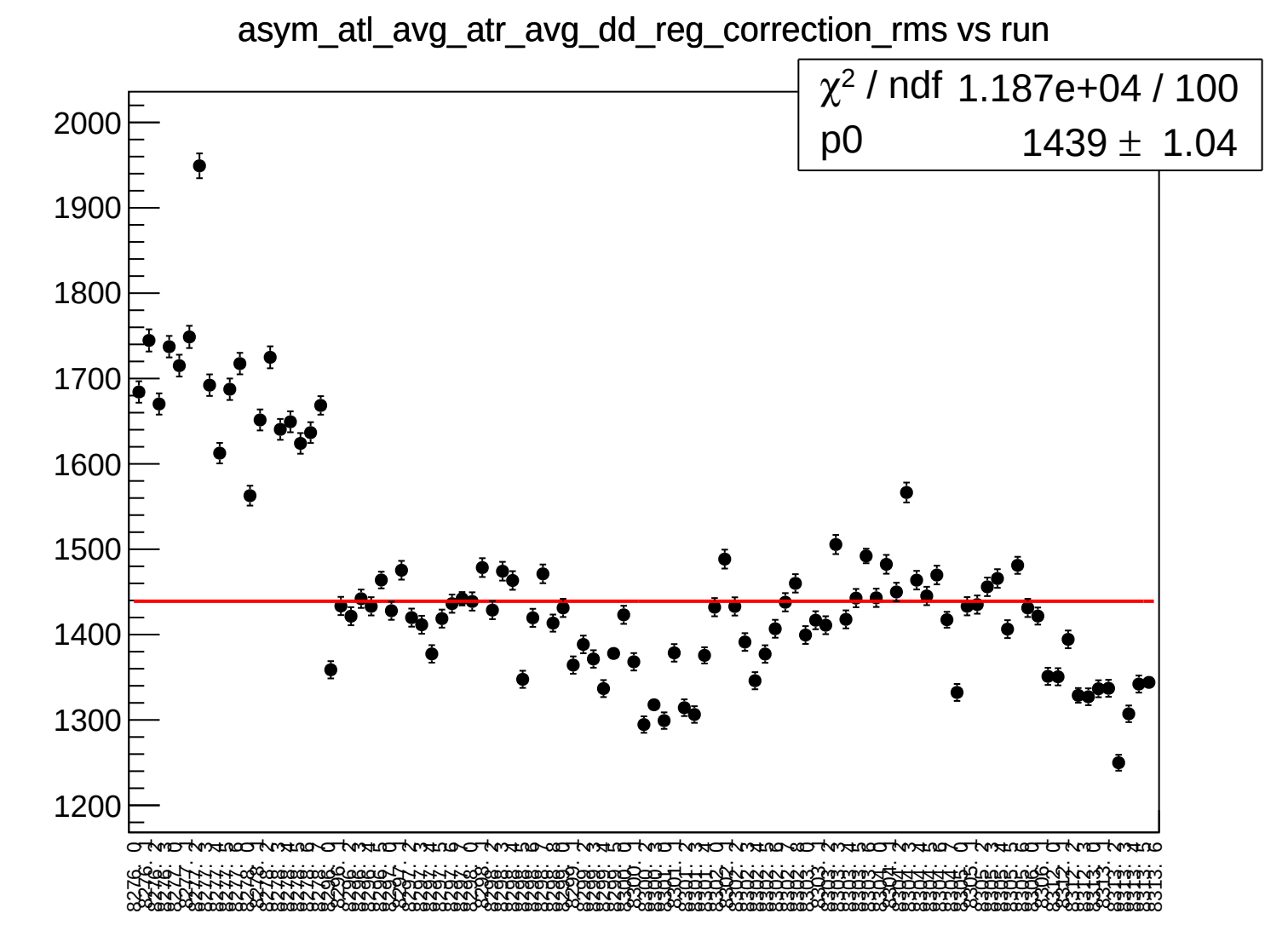

pull1D
Entries 101
Mean 0.07943
Std Dev 1.033

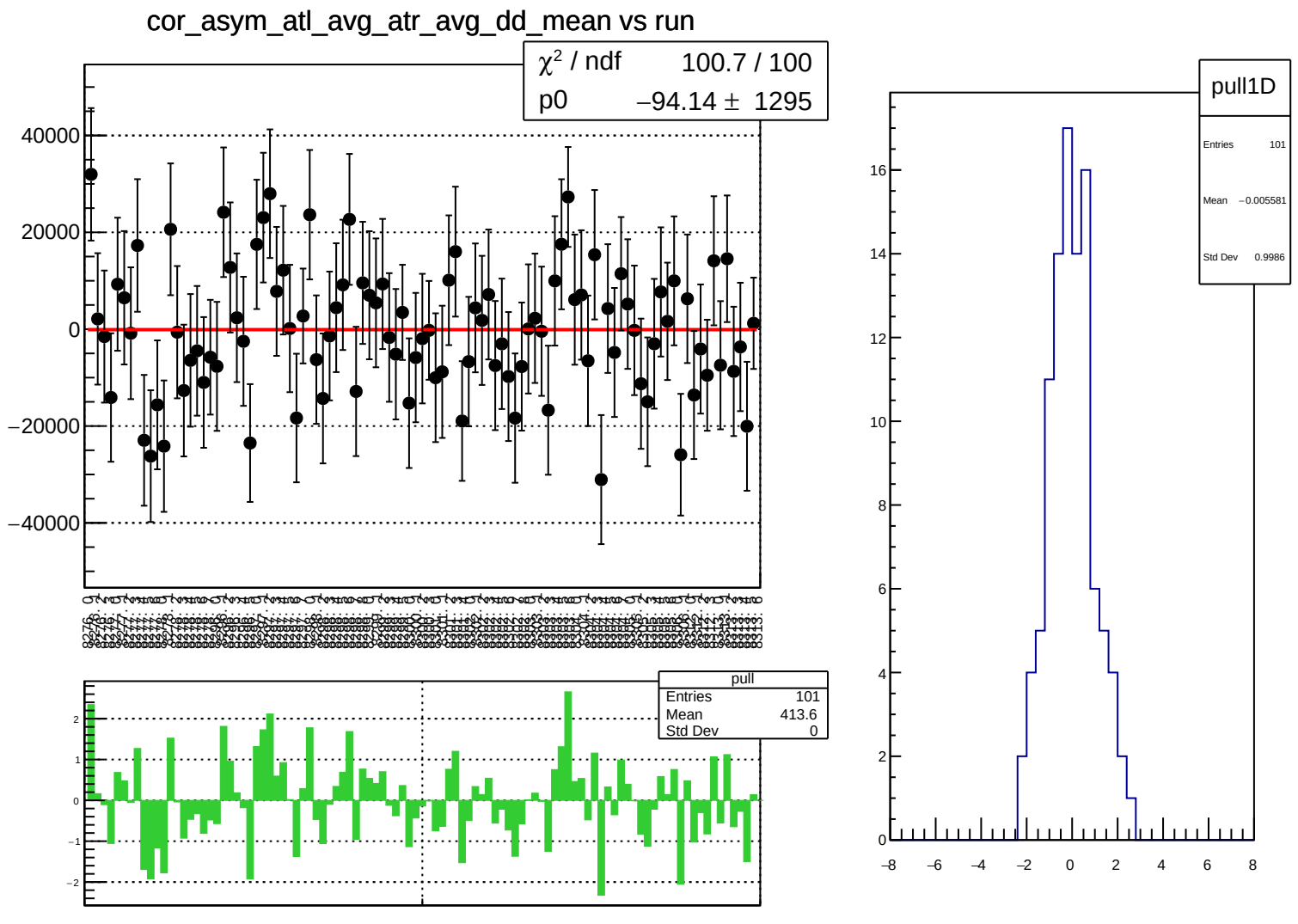

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.845e+05 / 100
p0 2.889e−10 ± 2.829e−13
3
2.5
2
1.5
1
0.5

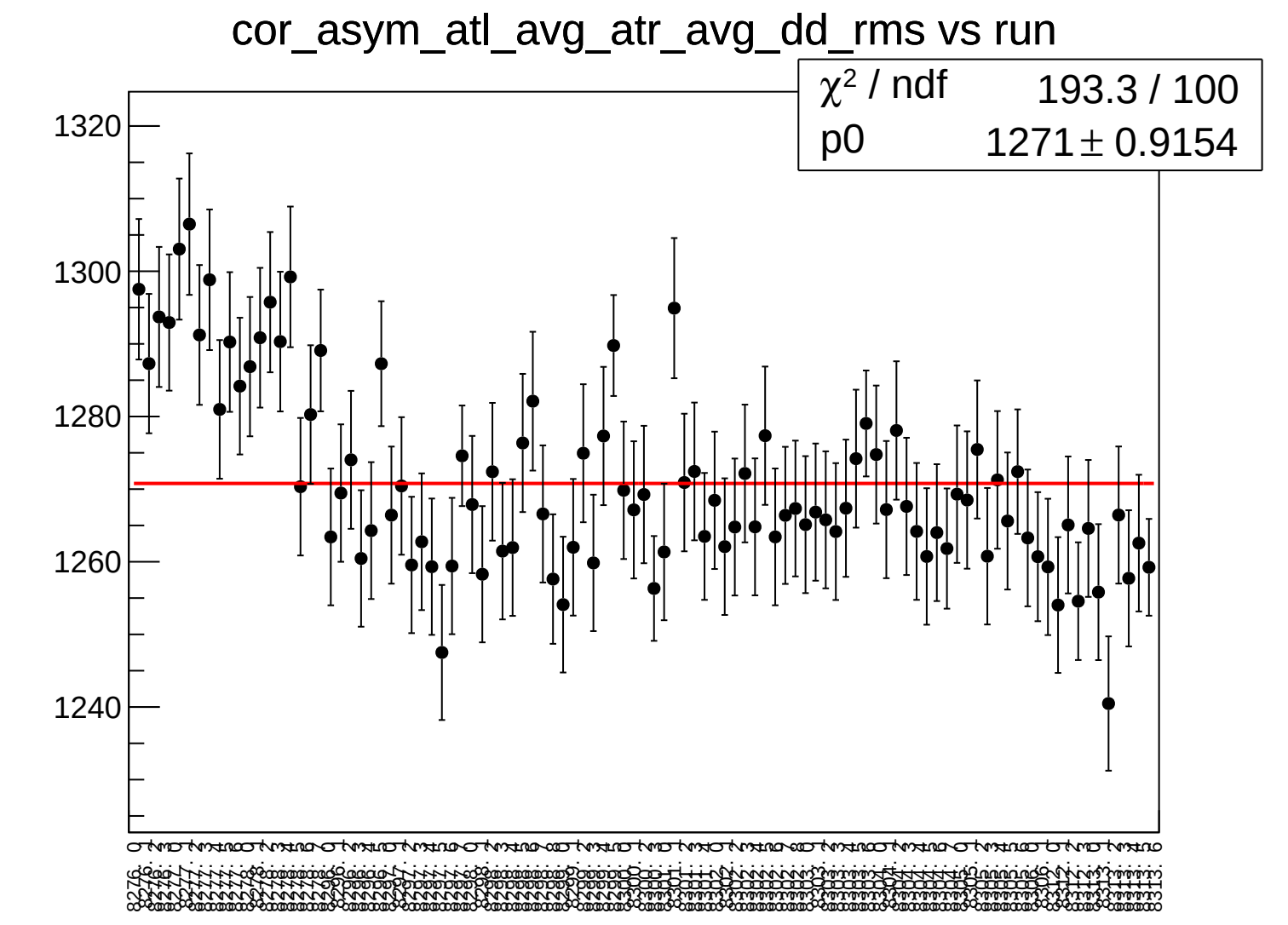

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 100.7 / 100
p0 −94.13 ± 1295
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 413.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.00558
Std Dev 0.9986
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

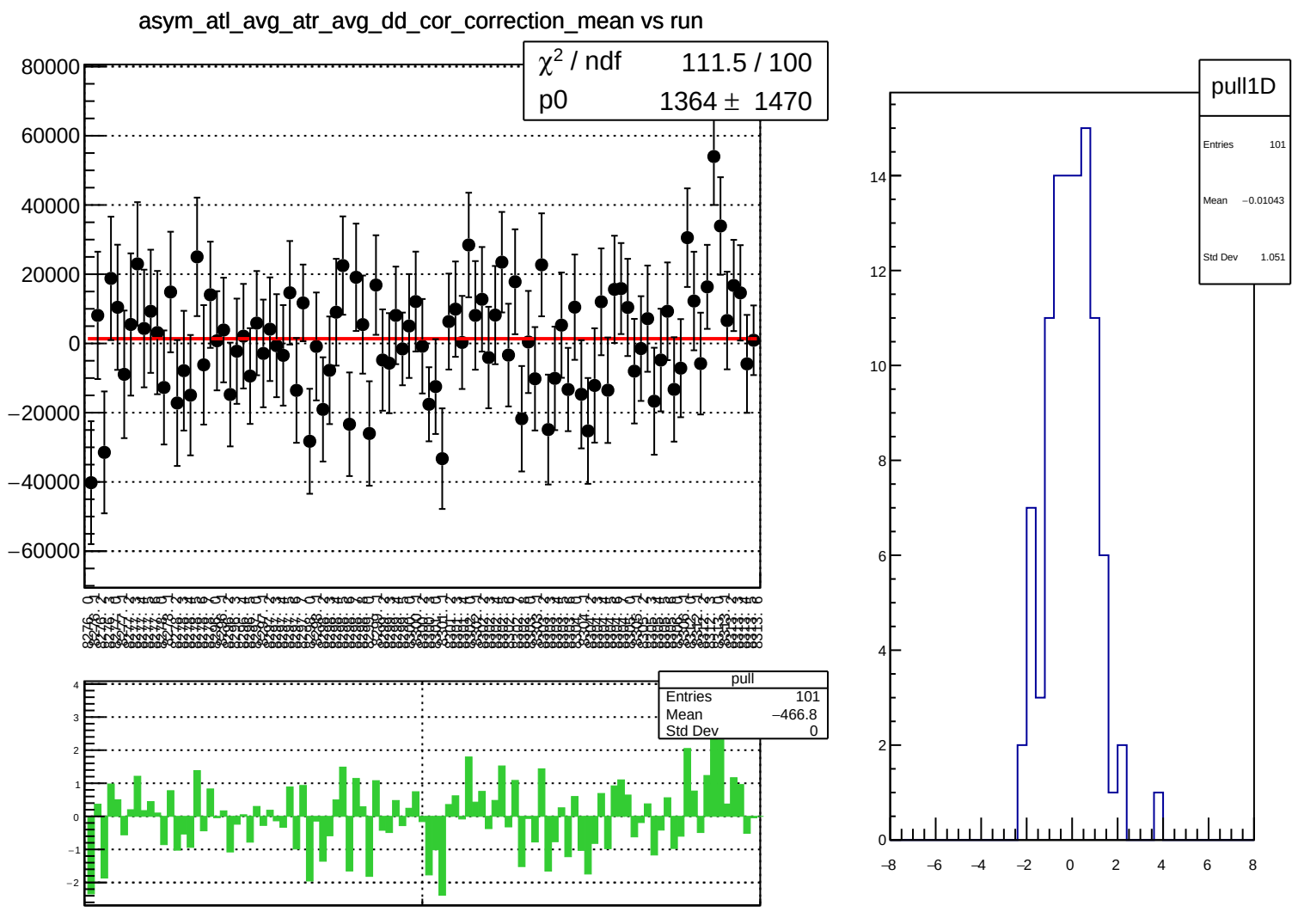

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 193.3 / 100
p0 1271 ± 0.9154
1320
1300
1280
1260
1240

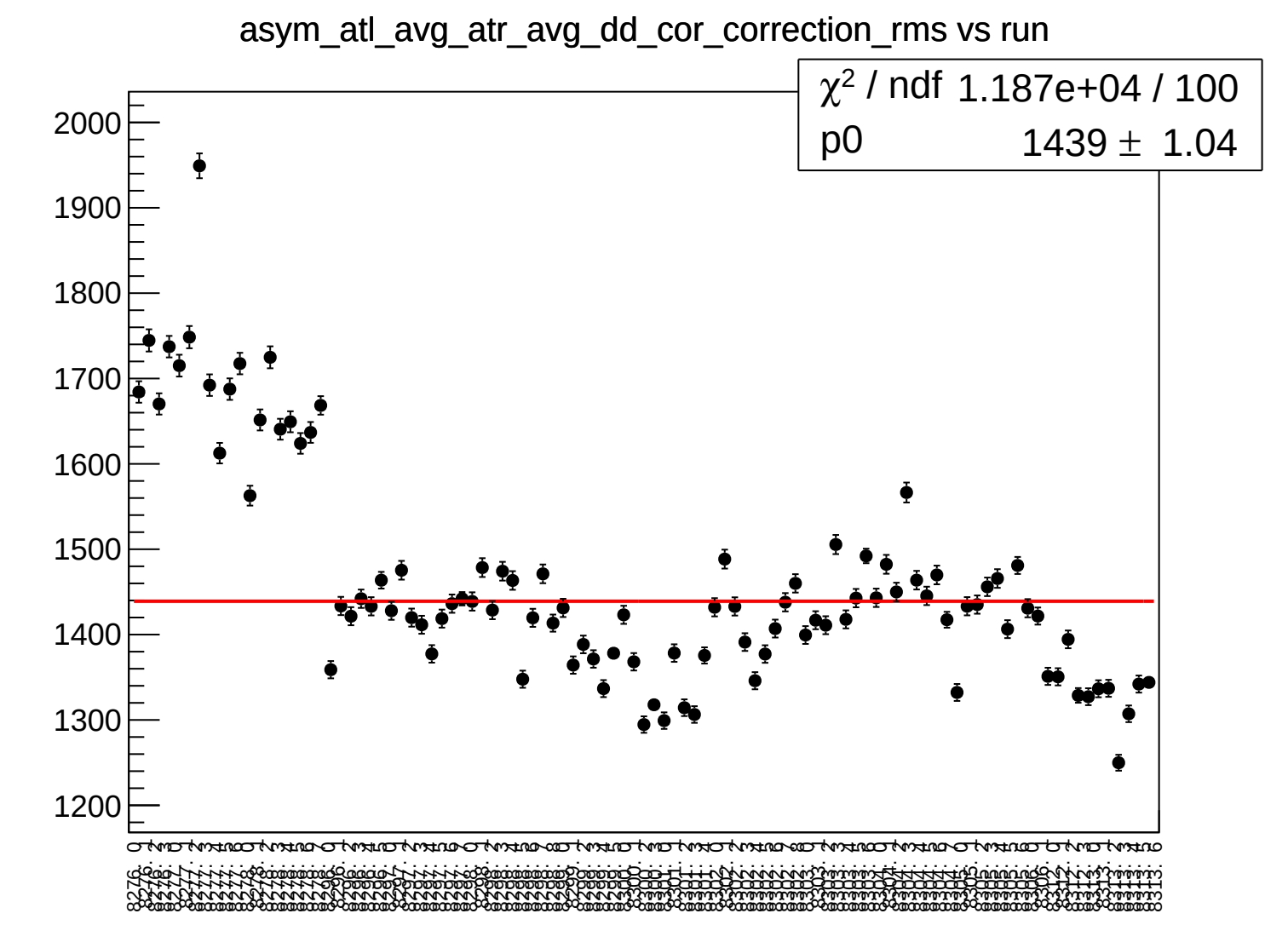

asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 111.5 / 100
p0 1364 ± 1470
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −466.6
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.01044
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

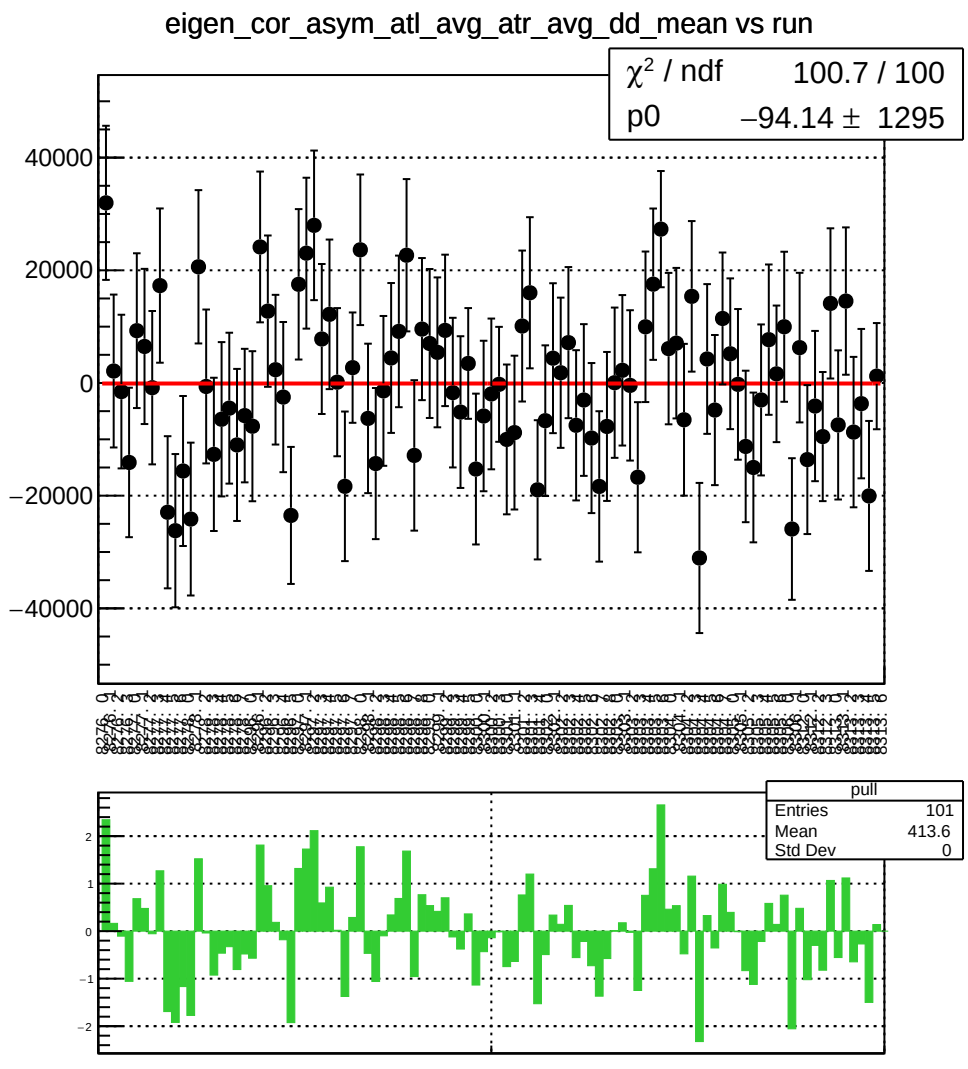

asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.187e+04 / 100
p0 1439 ± 1.04
2000
1900
1800
1700
1600
1500
1400
1300
1200

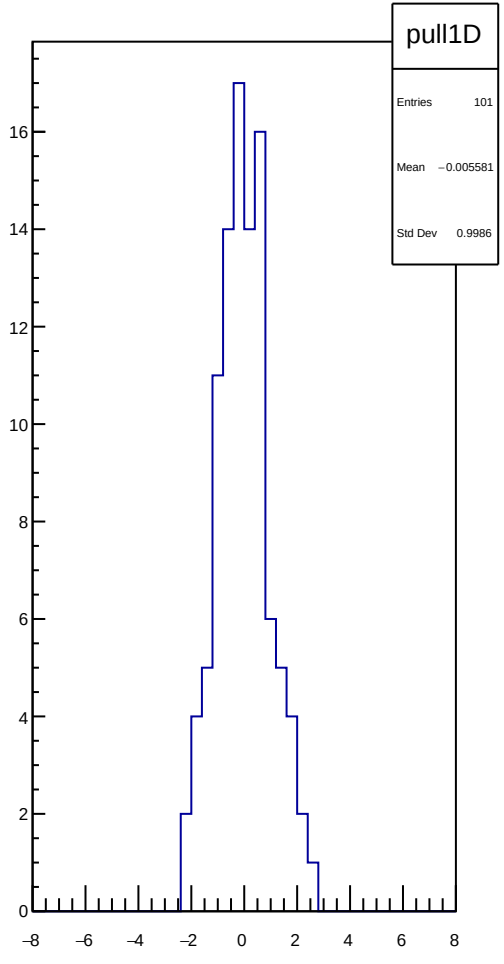

cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 100.7 / 100
p0 −94.14 ± 1295
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 413.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.005581
Std Dev 0.9986
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

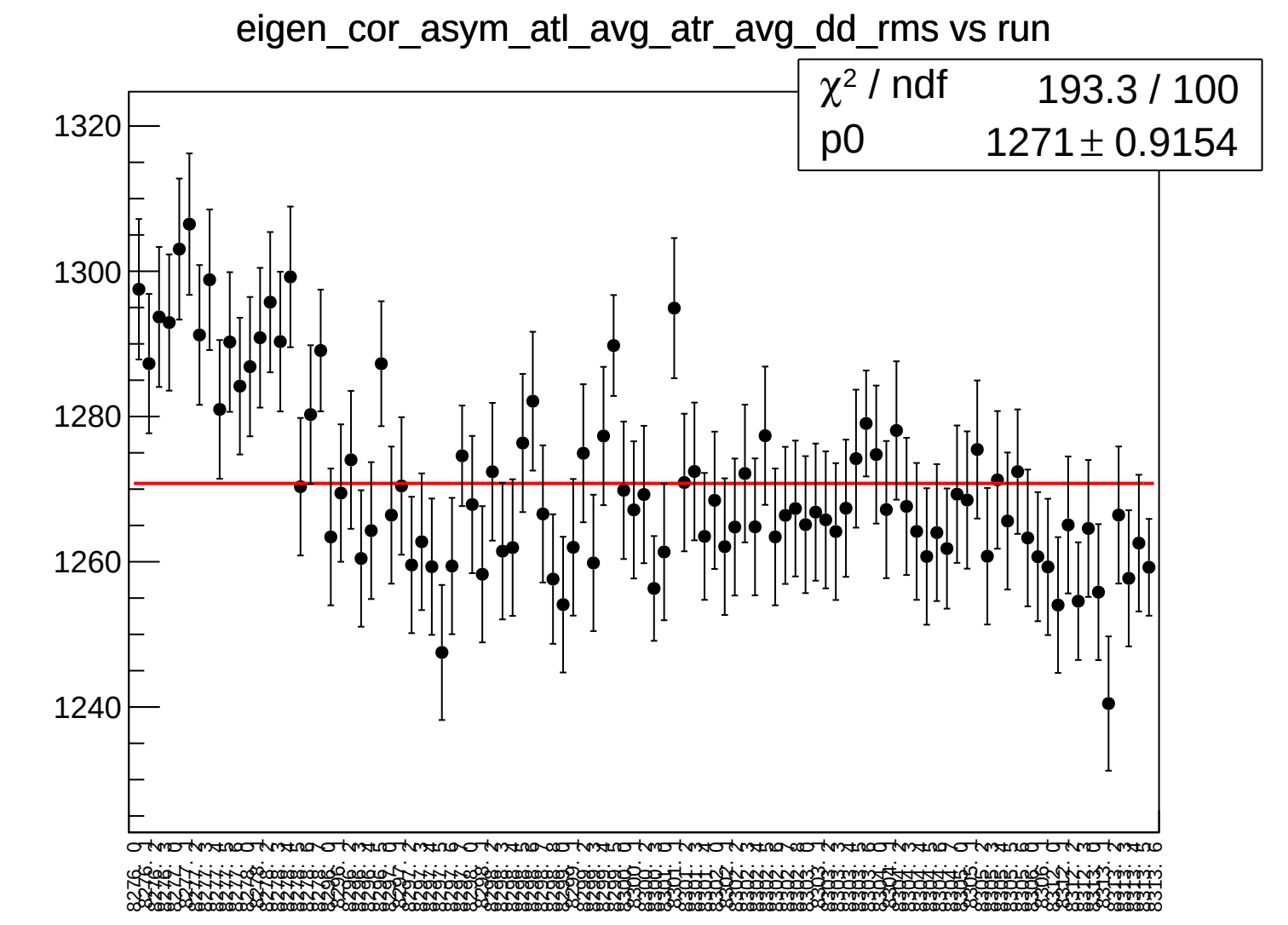

cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 193.3 / 100
p0 1271 ± 0.9154
1320
1300
1280
1260
1240

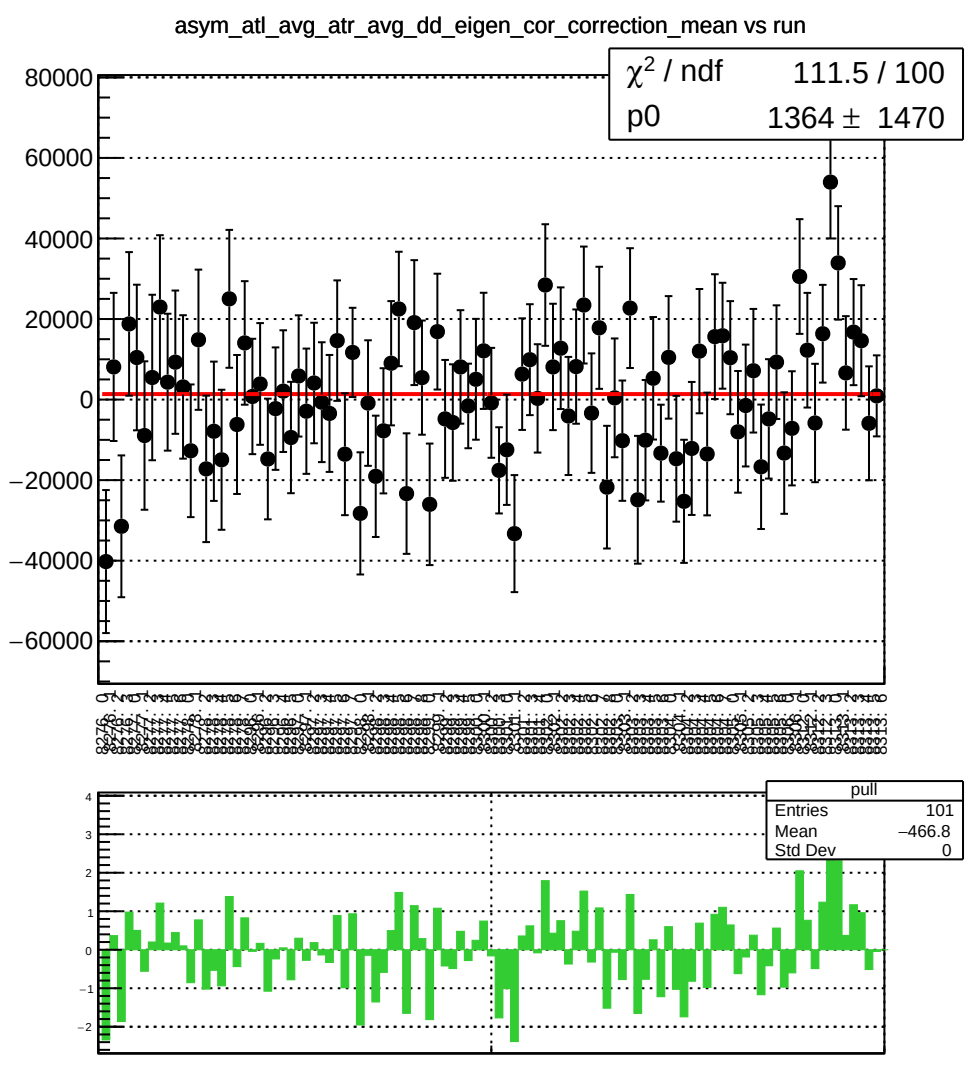

asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 111.5 / 100
p0 1364 ± 1470
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −466.8
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.01043
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

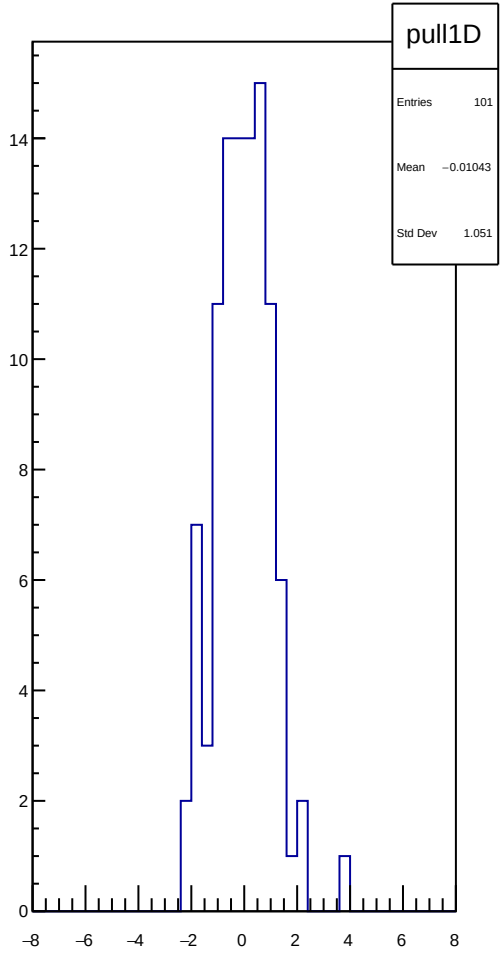

asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.187e+04 / 100
p0 1439 ± 1.04
2000
1900
1800
1700
1600
1500
1400
1300
1200

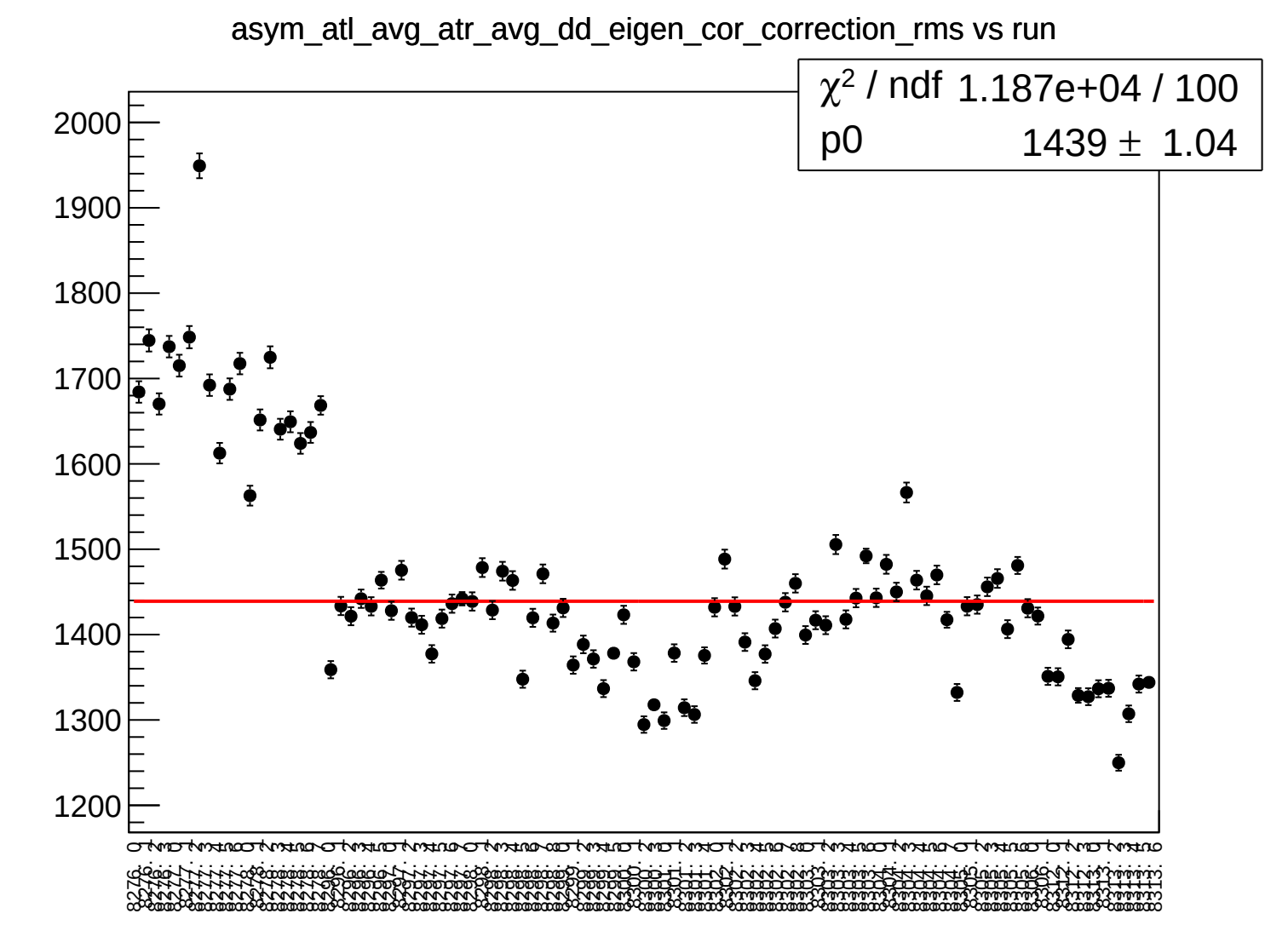

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 100.7 / 100
p0 −94.14 ± 1295
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 413.6
Std Dev 0
2
1
0
−1
−2

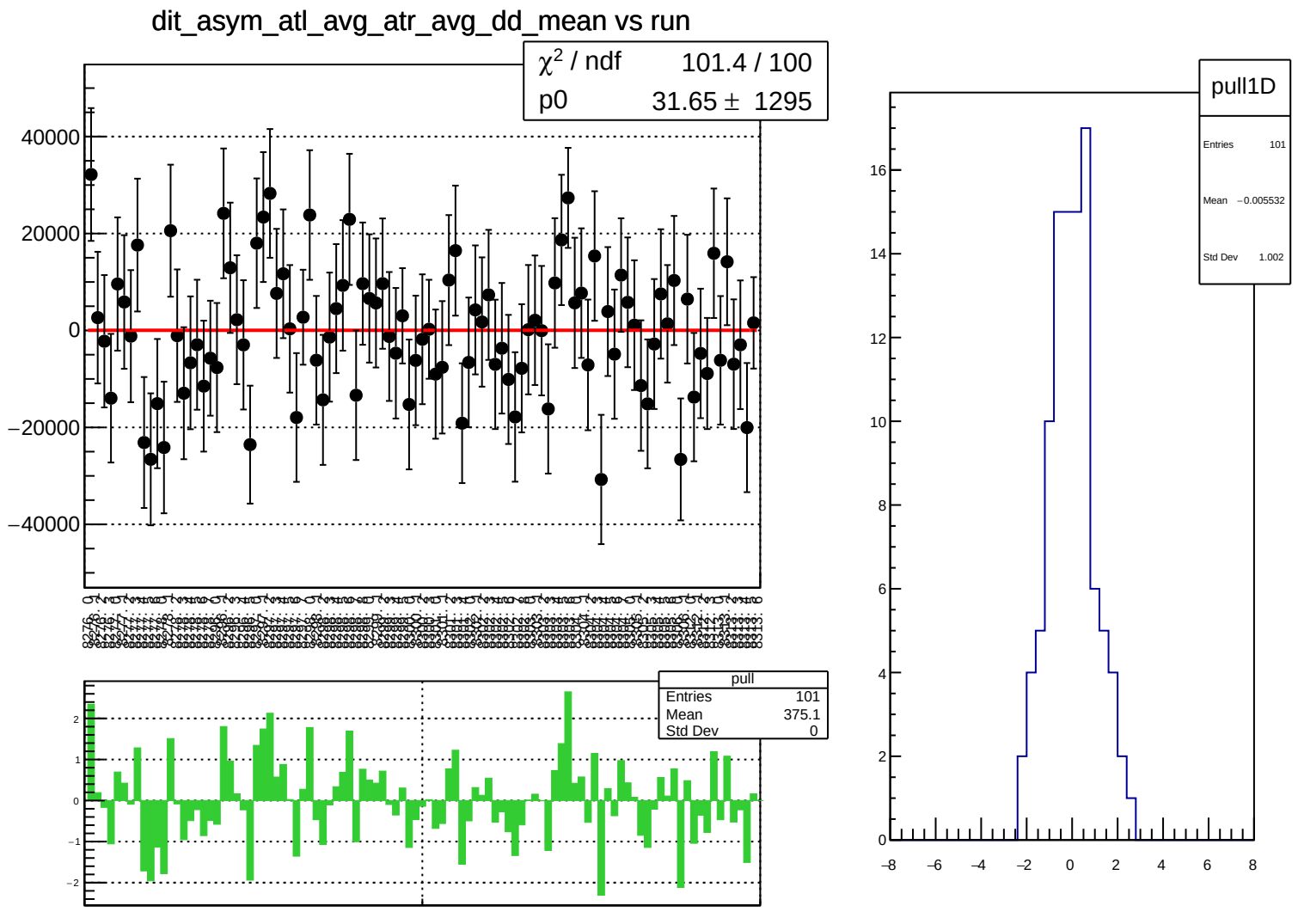

pull1D
Entries 101
Mean −0.005581
Std Dev 0.9986
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

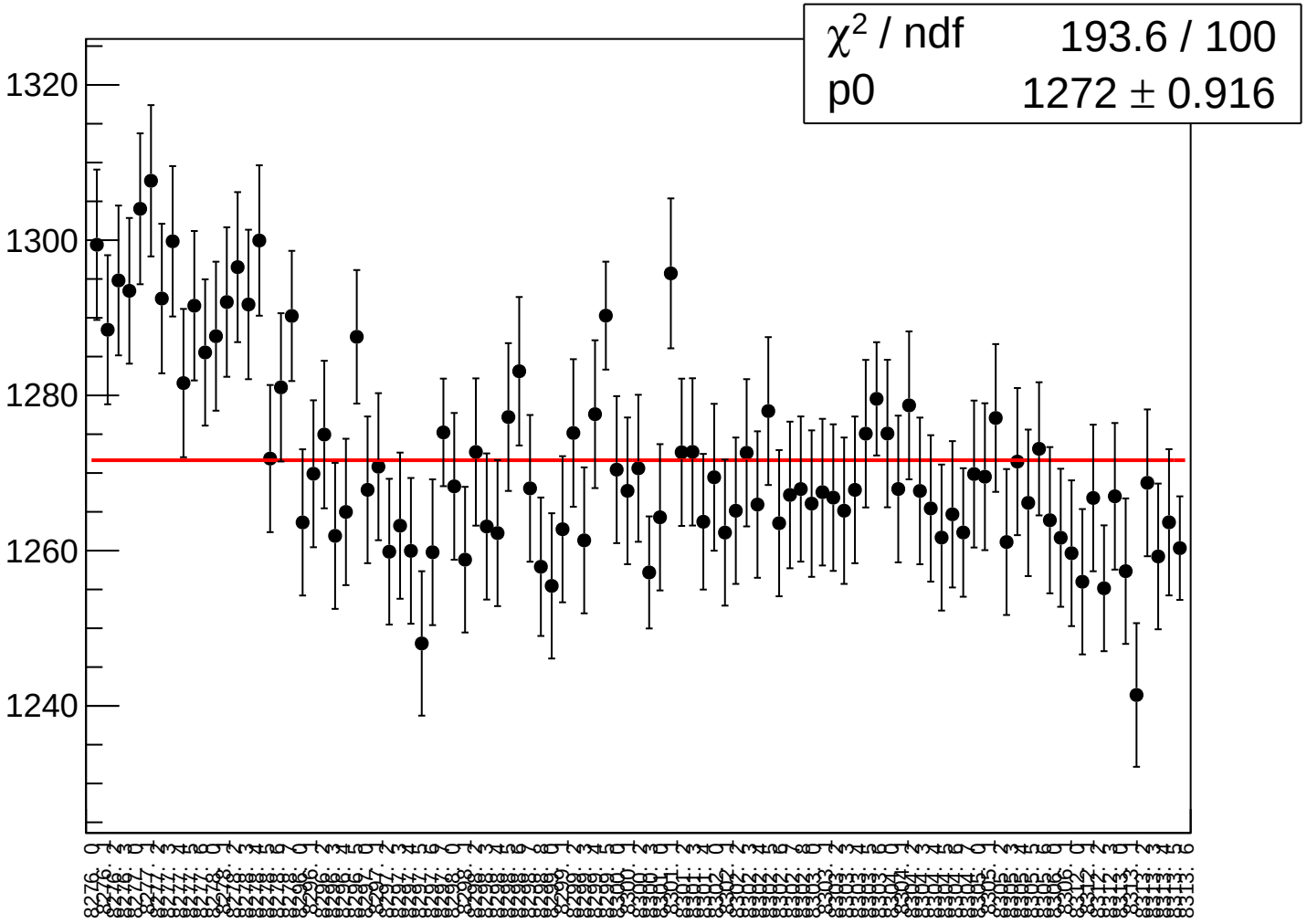

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 193.3 / 100
p0 1271 ± 0.9154
1320
1300
1280
1260
1240

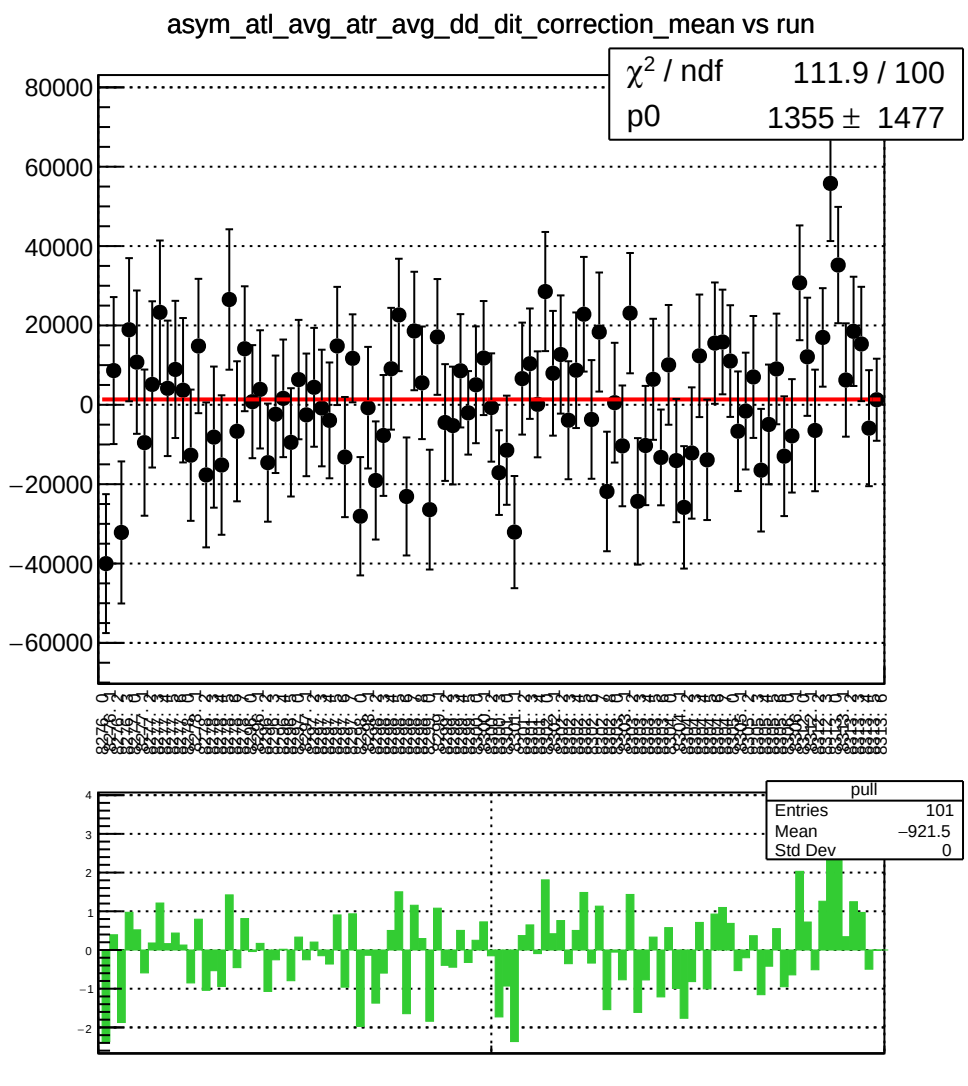

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 111.5 / 100
p0 1364 ± 1470
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −466.8
Std Dev 0
4
3
2
1
0
−1
−2

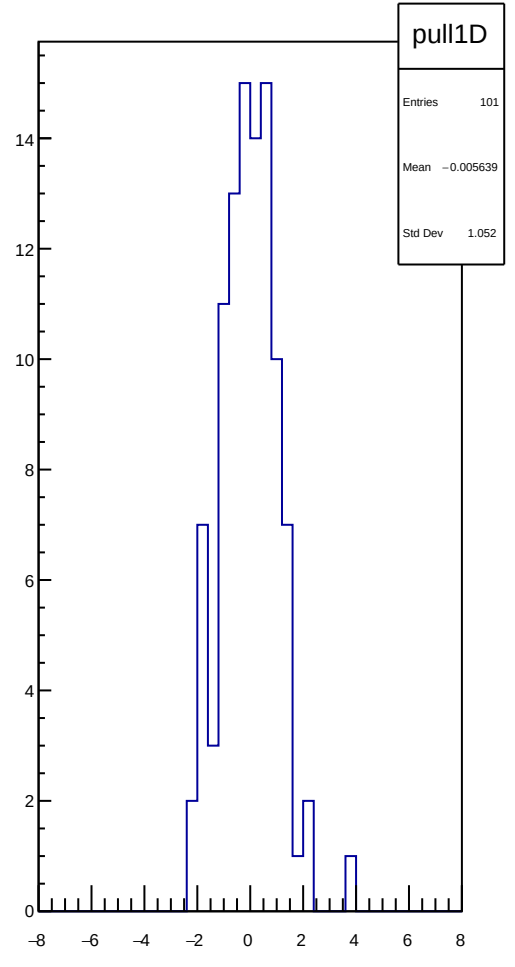

pull1D
Entries 101
Mean −0.01043
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

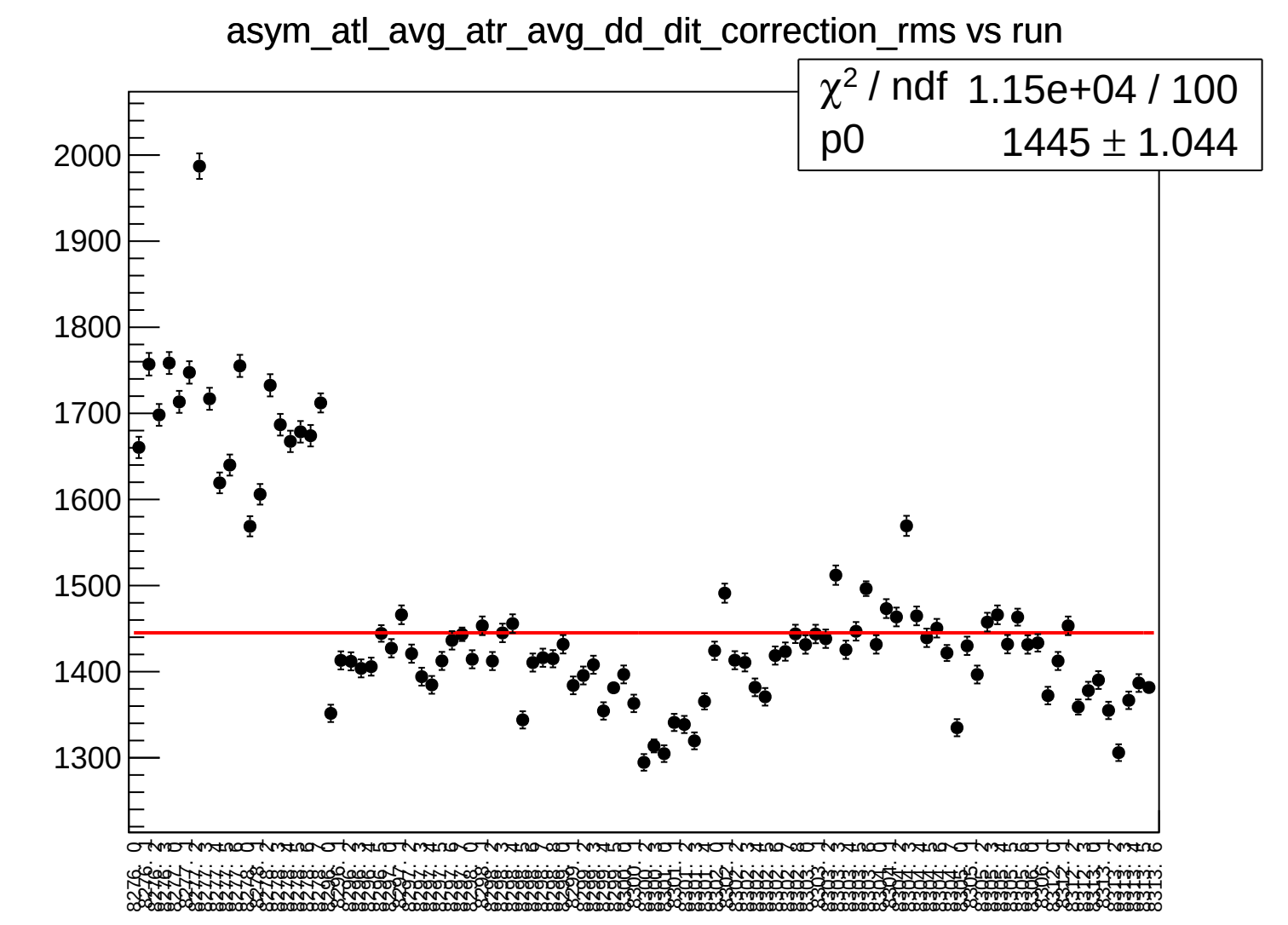

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.187e+04 / 100
p0 1439 ± 1.04
2000
1900
1800
1700
1600
1500
1400
1300
1200

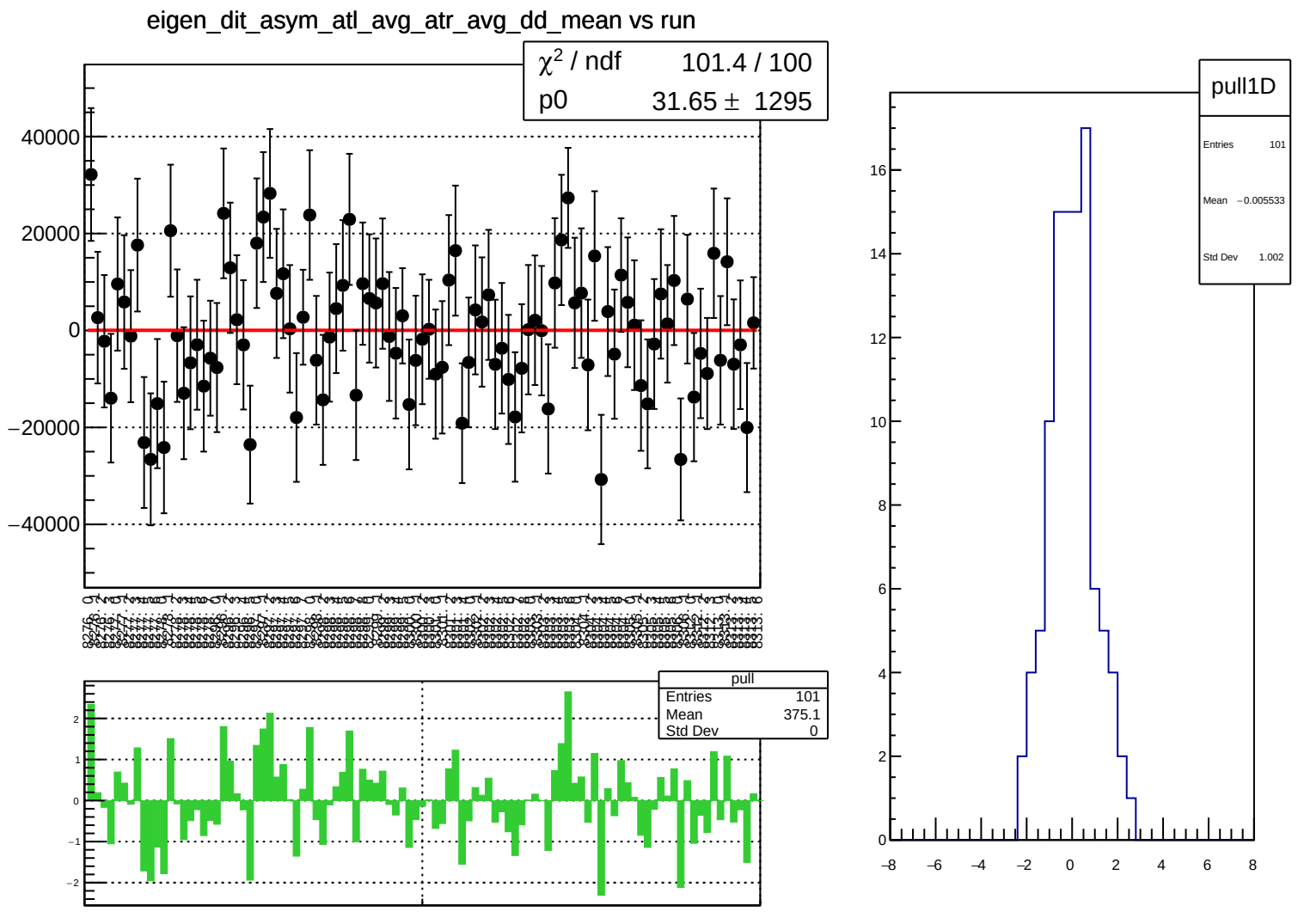

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 101.4 / 100
p0 31.65 ± 1295
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 375.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.005532
Std Dev 1.002
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

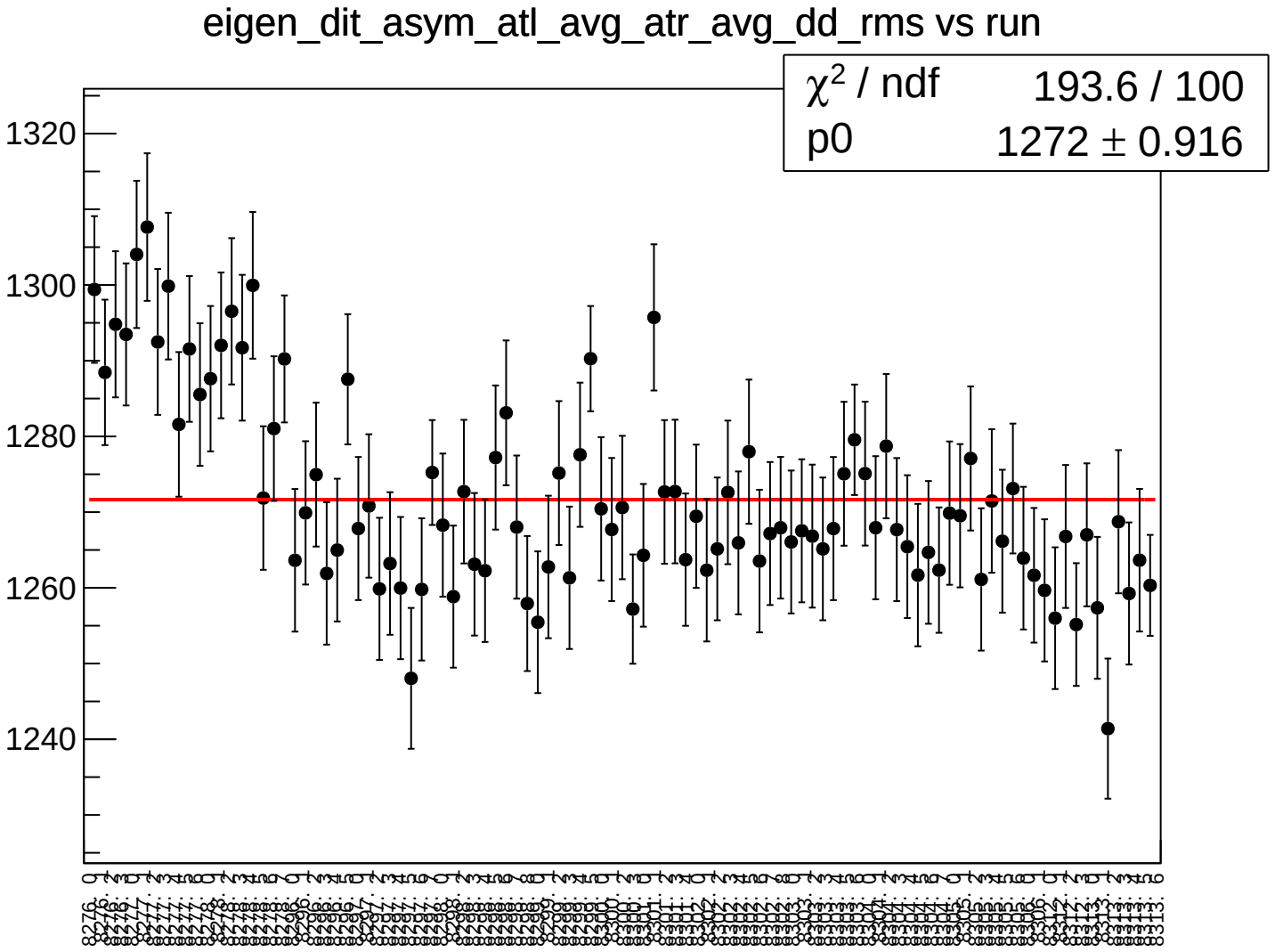

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 193.6 / 100
p0 1272 ± 0.916
1320
1300
1280
1260
1240

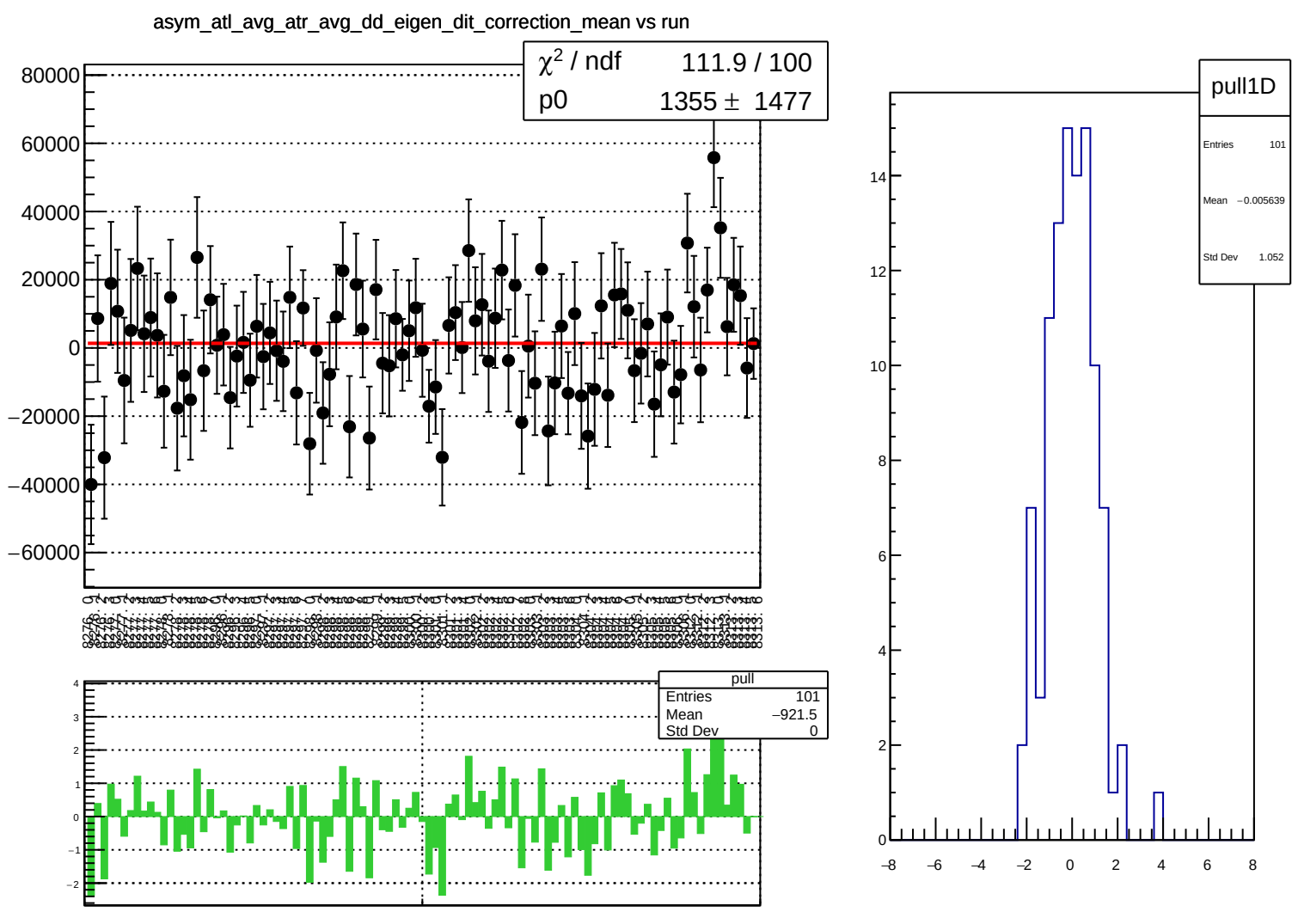

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 111.9 / 100
p0 1355 ± 1477
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −921.5
Std Dev 0
4
3
2
1
0
−1
−2

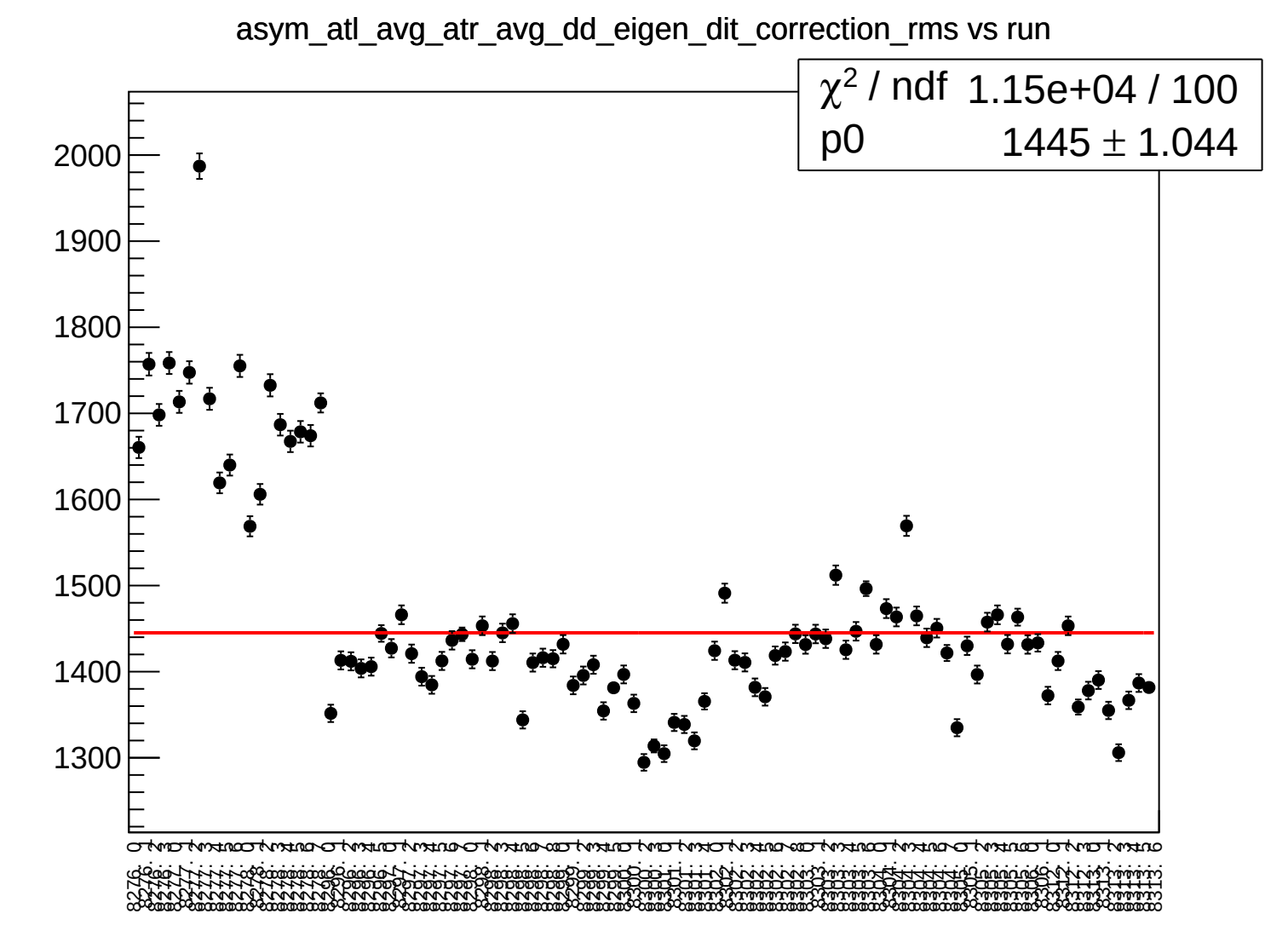

pull1D
Entries 101
Mean −0.005639
Std Dev 1.052
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

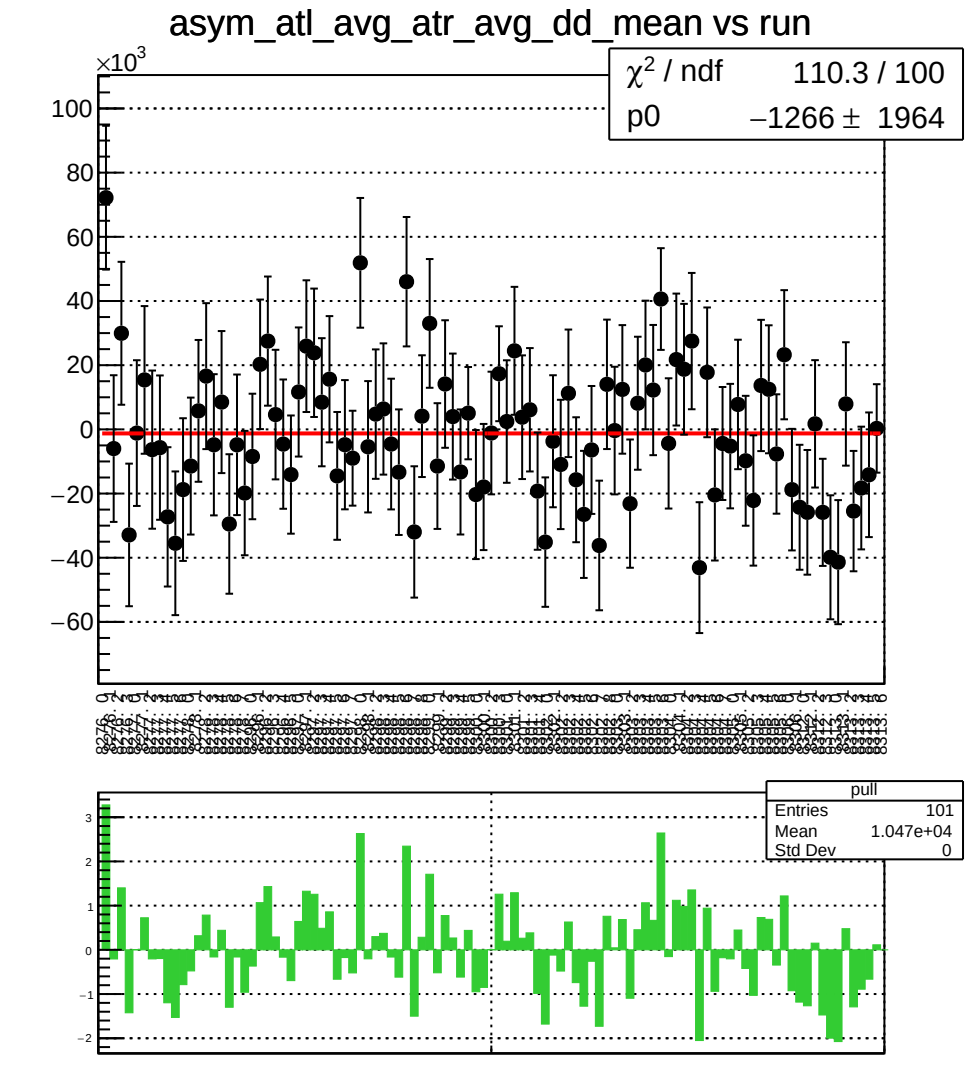

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 1.15e+04 / 100
p0 1445 ± 1.044
2000
1900
1800
1700
1600
1500
1400
1300

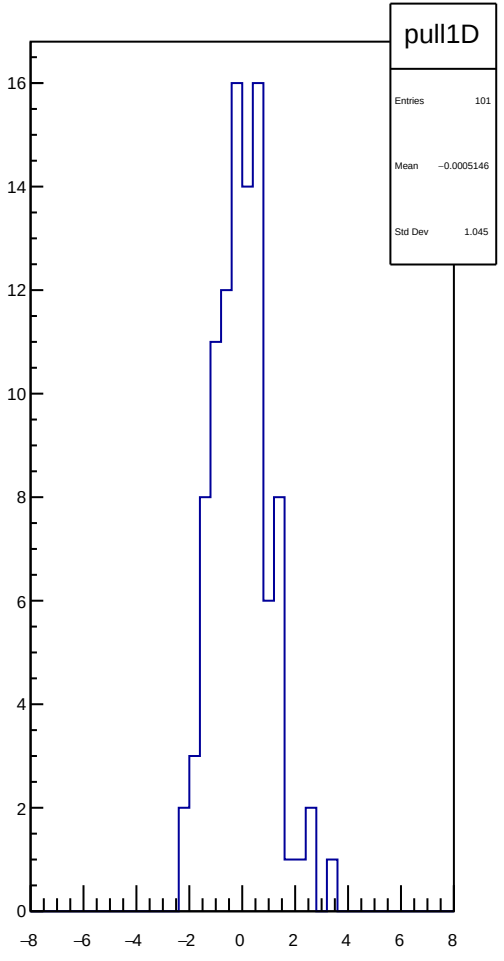

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 101.4 / 100
p0 31.65 ± 1295
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 375.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.005533
Std Dev 1.002
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

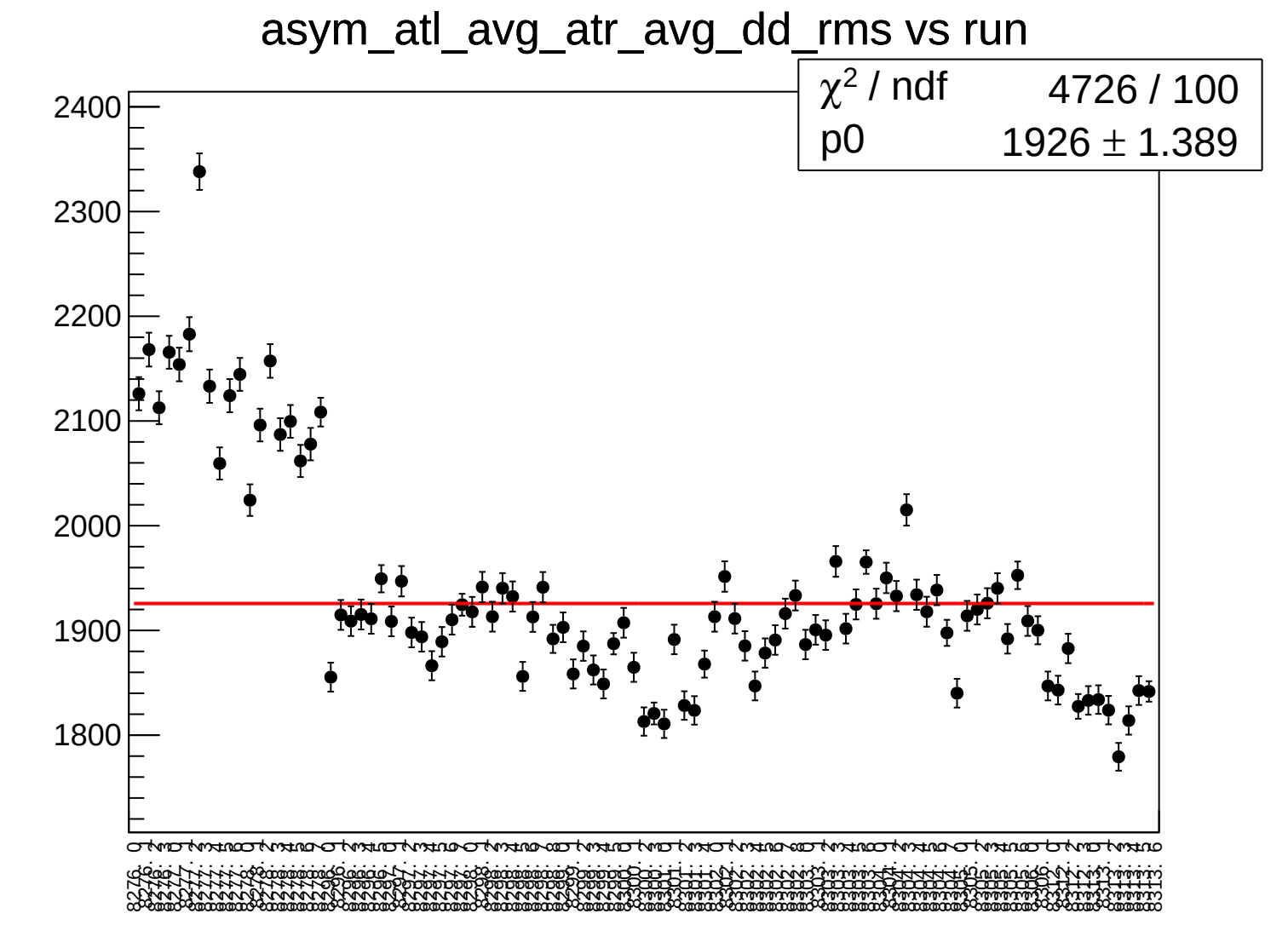

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 193.6 / 100
p0 1272 ± 0.916
1320
1300
1280
1260
1240

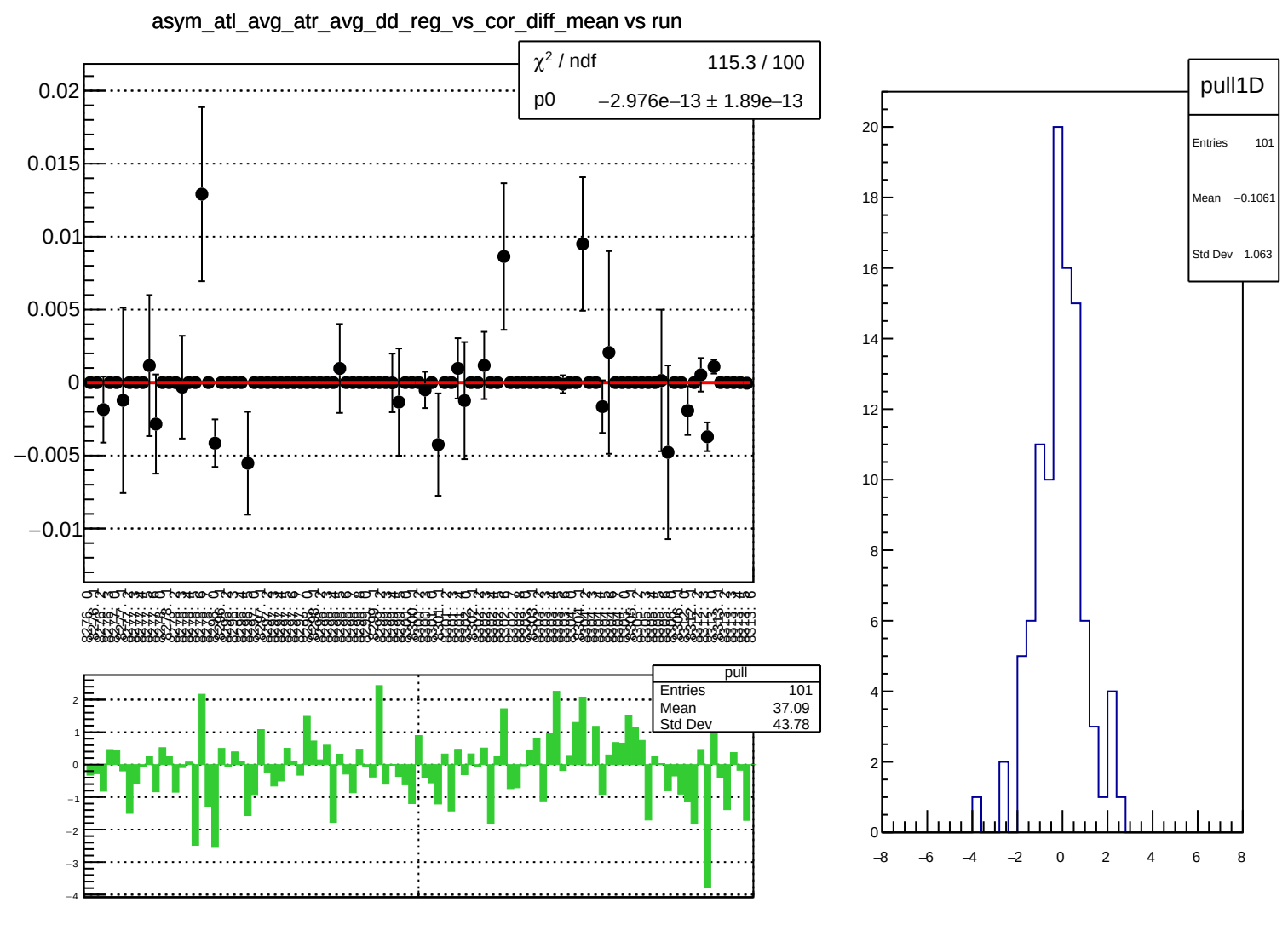

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 111.9 / 100
p0 1355 ± 1477
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −921.5
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.005639
Std Dev 1.052
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

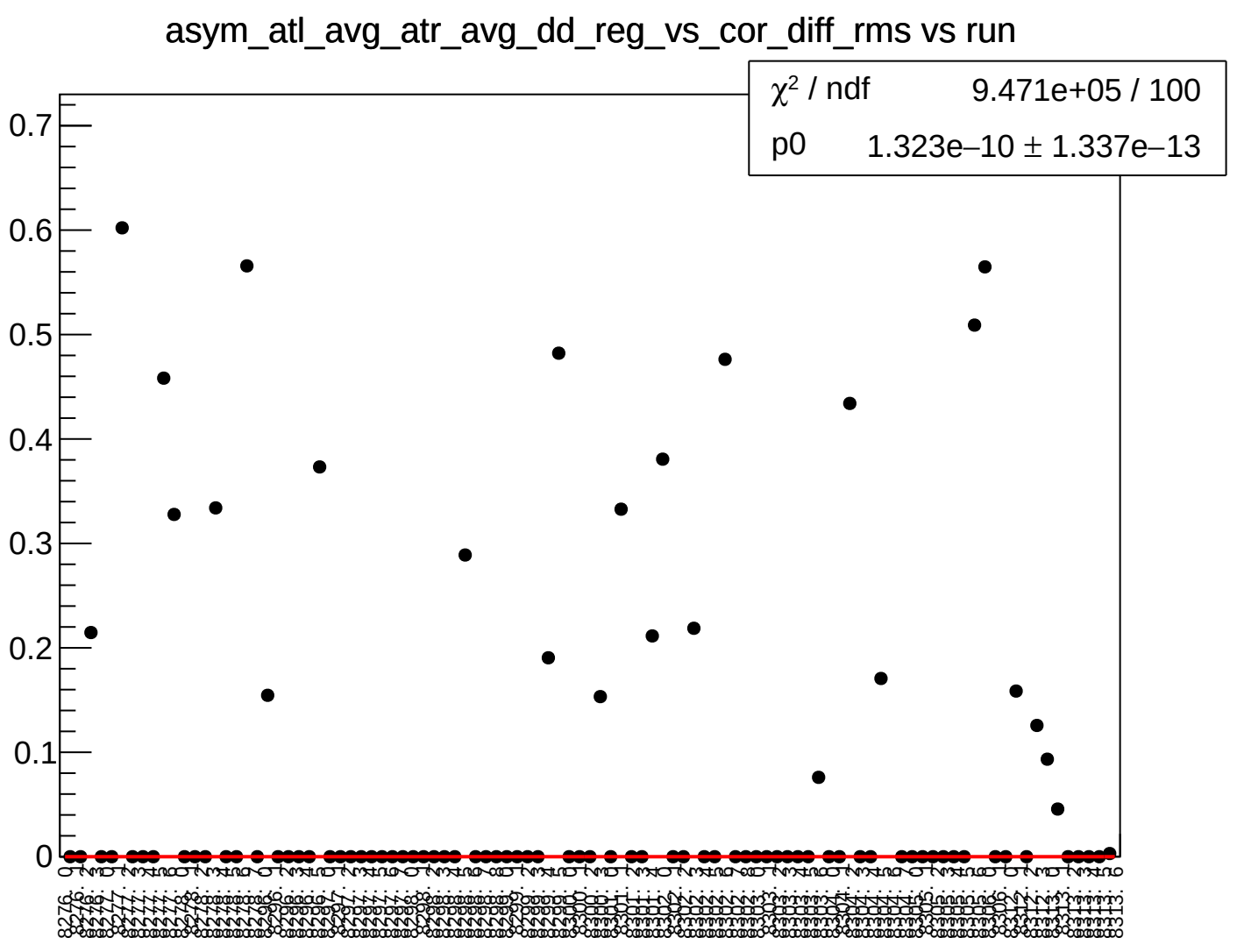

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.15e+04 / 100
p0 1445 ± 1.044
2000
1900
1800
1700
1600
1500
1400
1300

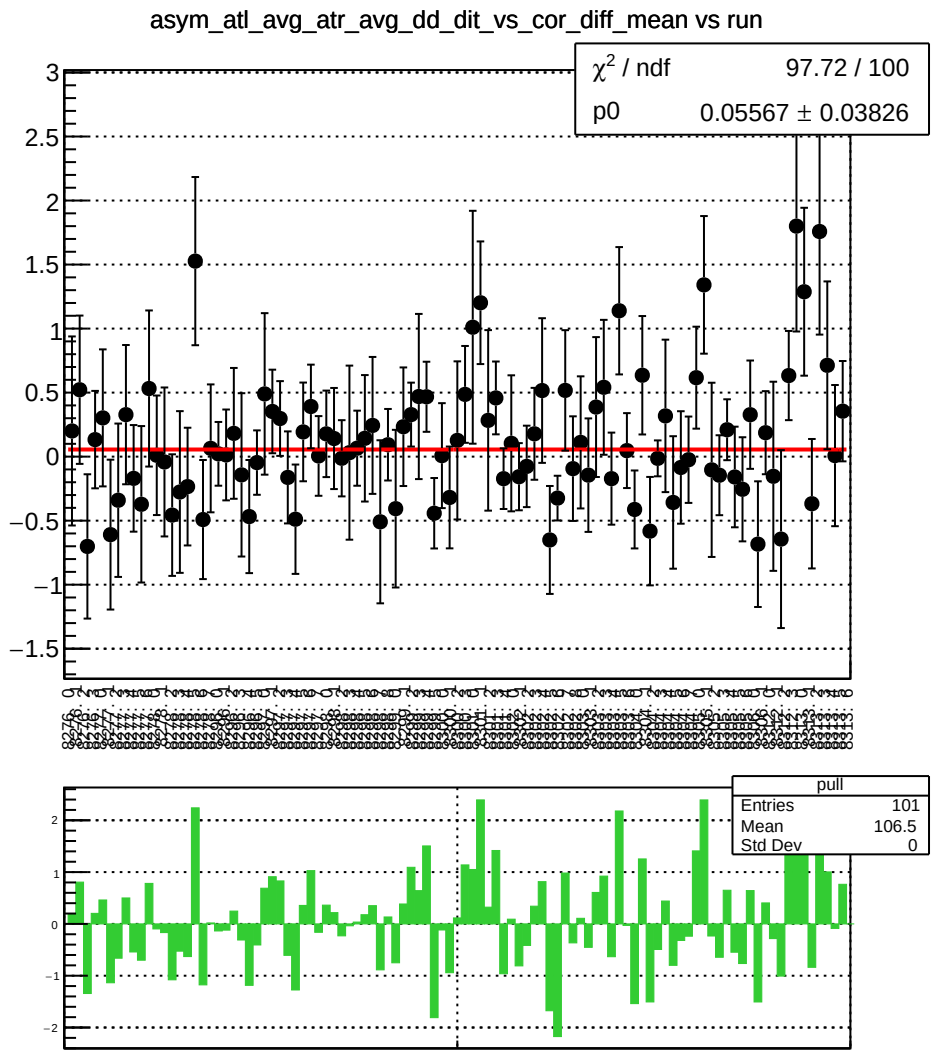

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 110.3 / 100
p0 −1266 ± 1964
×10³
pull
Entries 101
Mean 1.047e+04
Std Dev 0

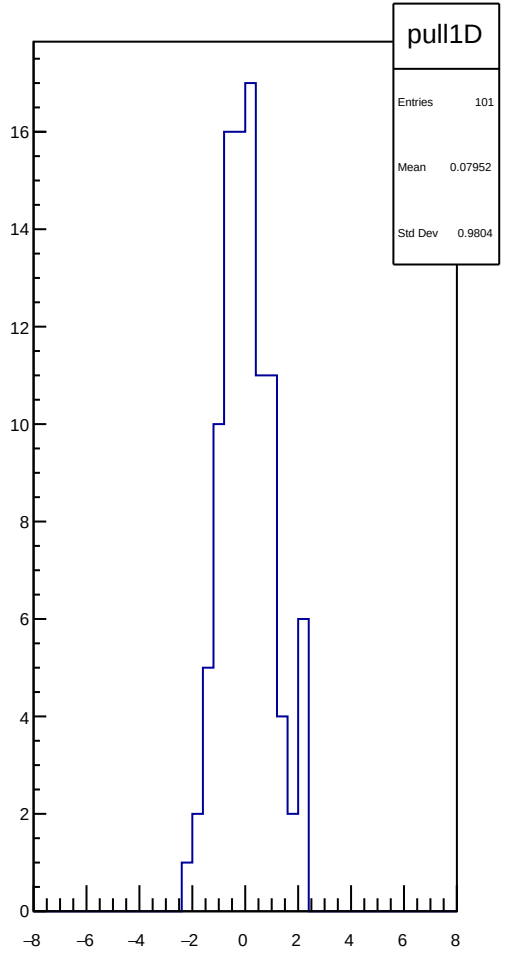

pull1D
Entries 101
Mean −0.0005146
Std Dev 1.045

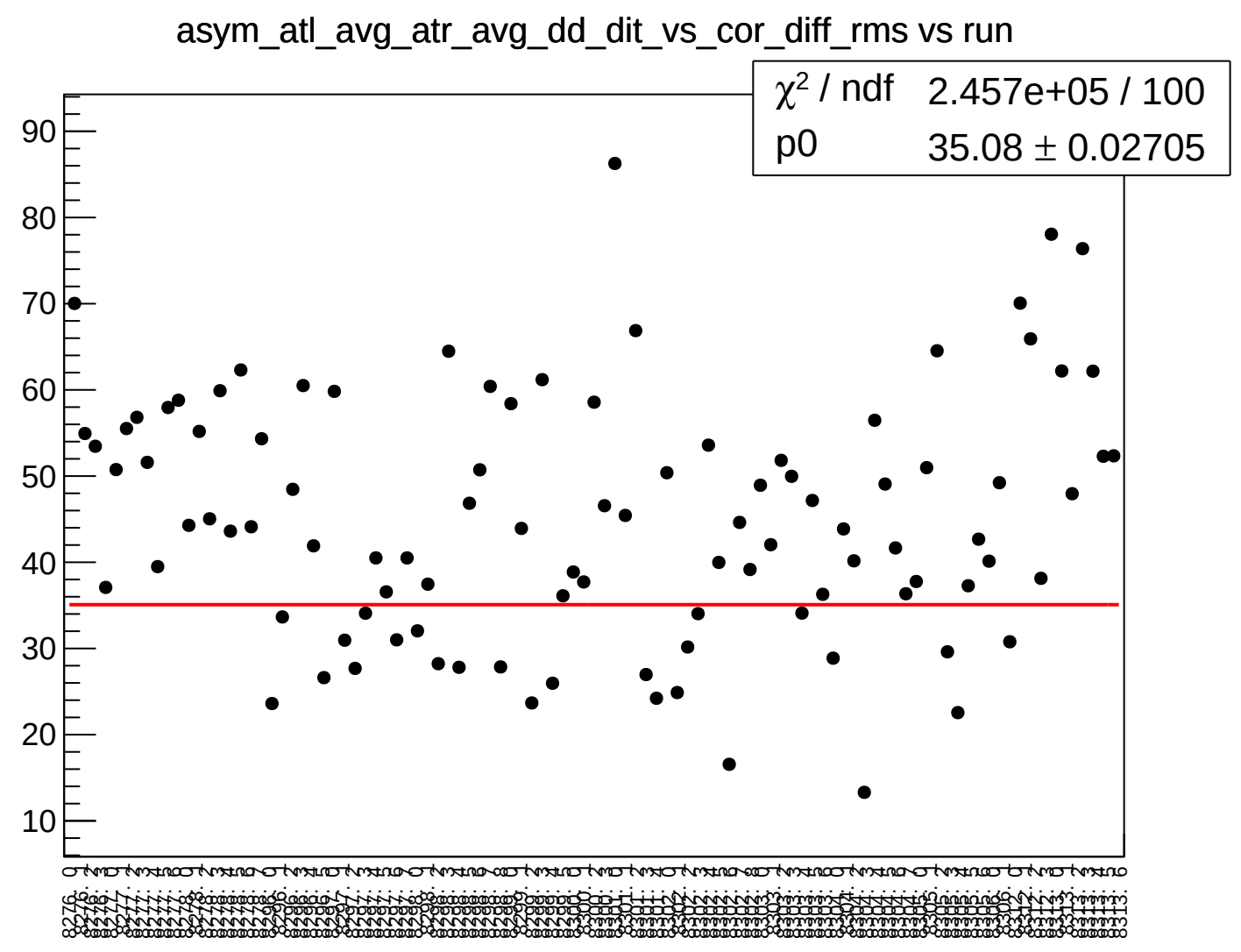

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 4726 / 100
p0 1926 ± 1.389
2400
2300
2200
2100
2000
1900
1800

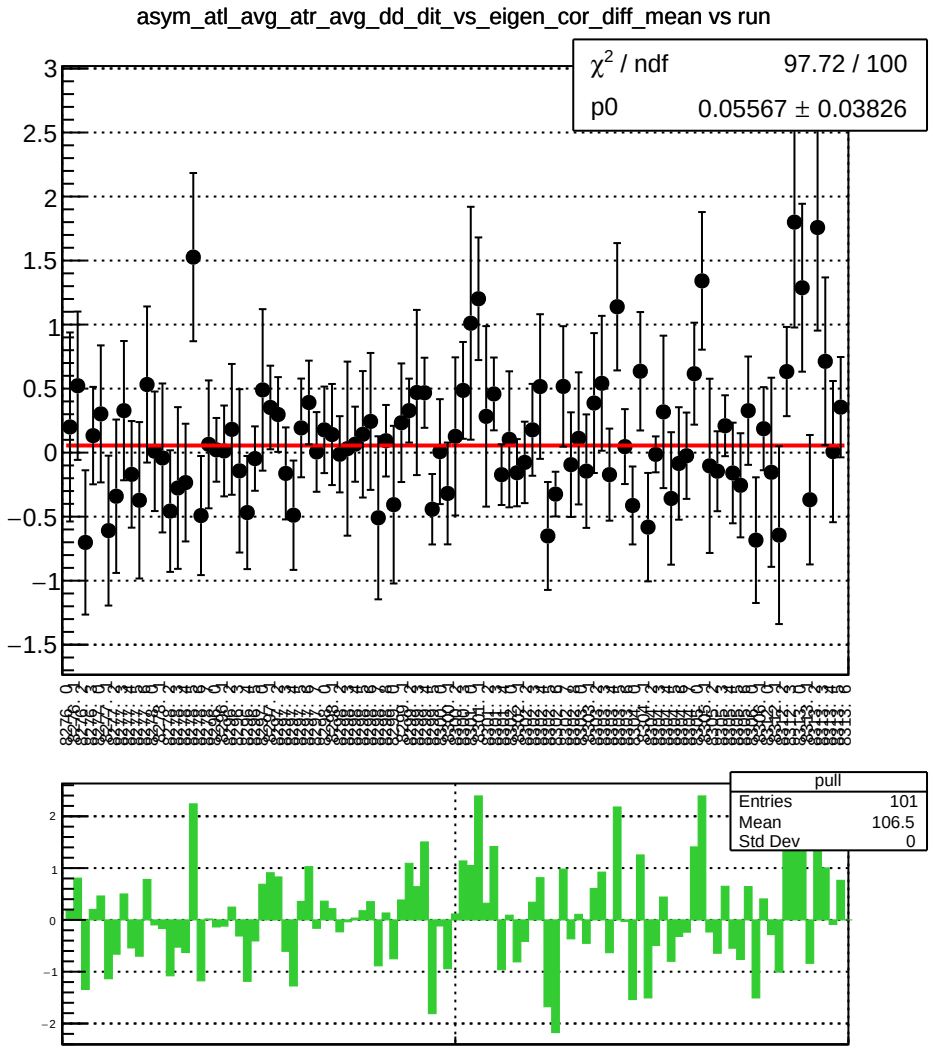

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 115.3 / 100
p0 −2.976e−13 ± 1.89e−13
pull
Entries 101
Mean 37.09
Std Dev 43.78
pull1D
Entries 101
Mean −0.1061
Std Dev 1.063

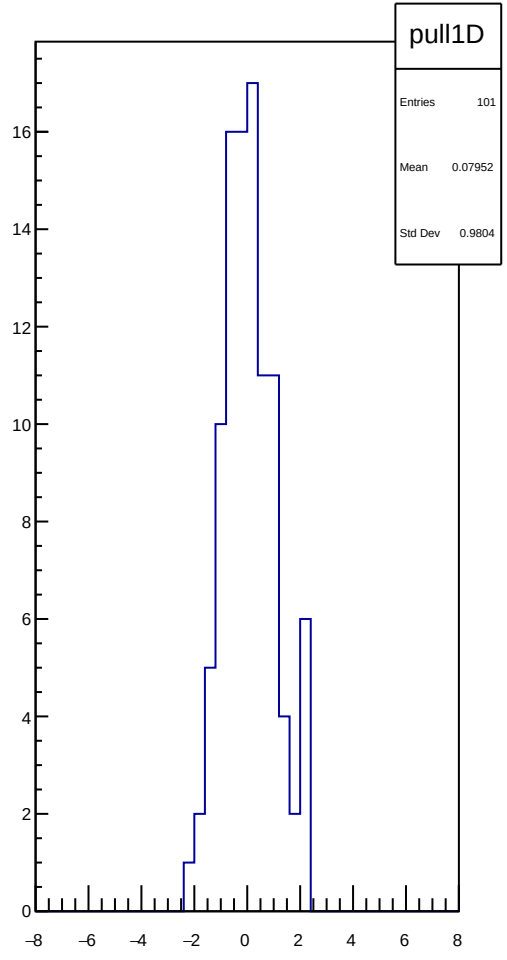

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.471e+05 / 100
p0 1.323e−10 ± 1.337e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

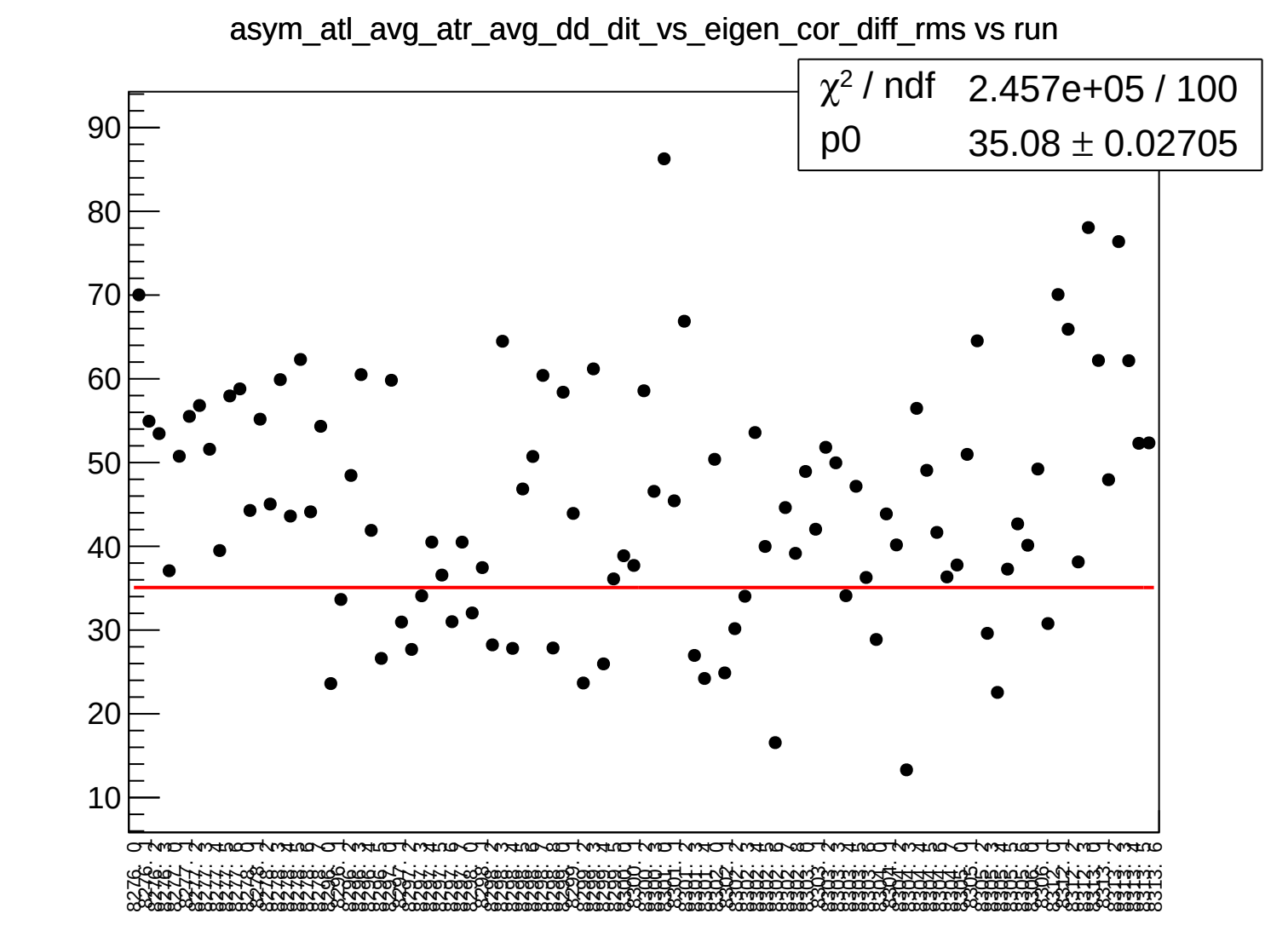

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 97.72 / 100
p0 0.05567 ± 0.03826
pull
Entries 101
Mean 106.5
Std Dev 0

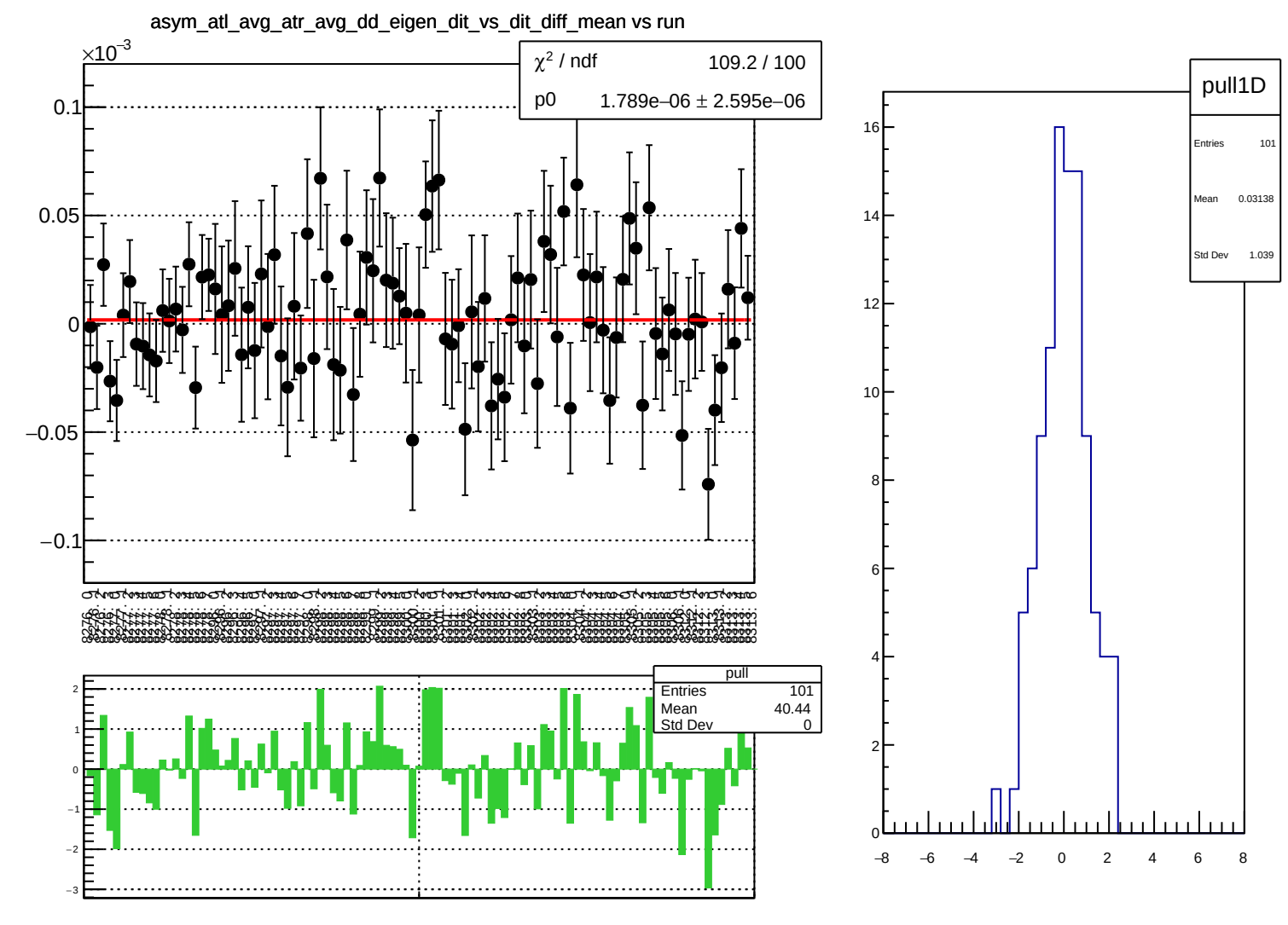

pull1D
Entries 101
Mean 0.07952
Std Dev 0.9804

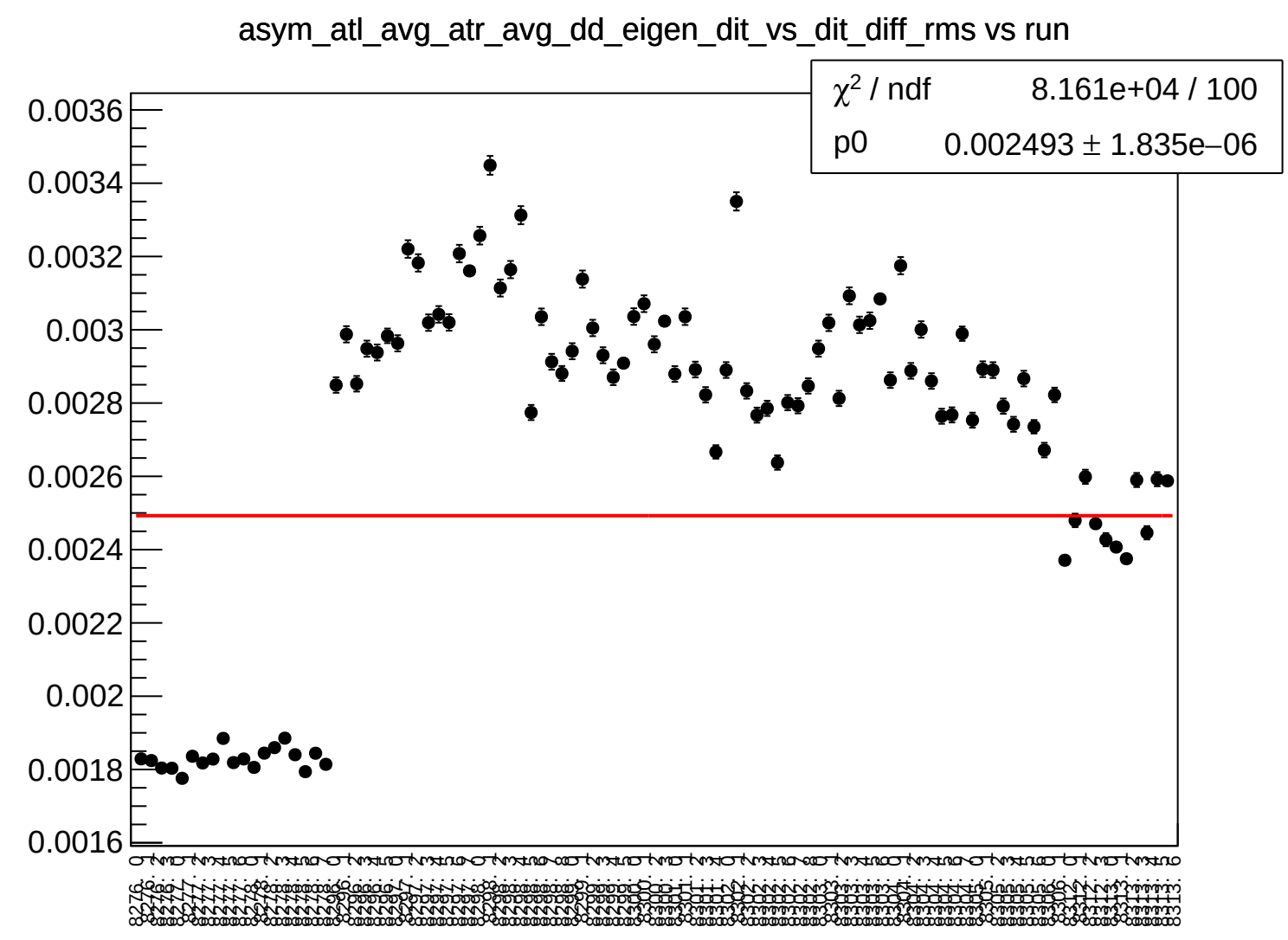

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.457e+05 / 100
p0 35.08 ± 0.02705
90
80
70
60
50
40
30
20
10

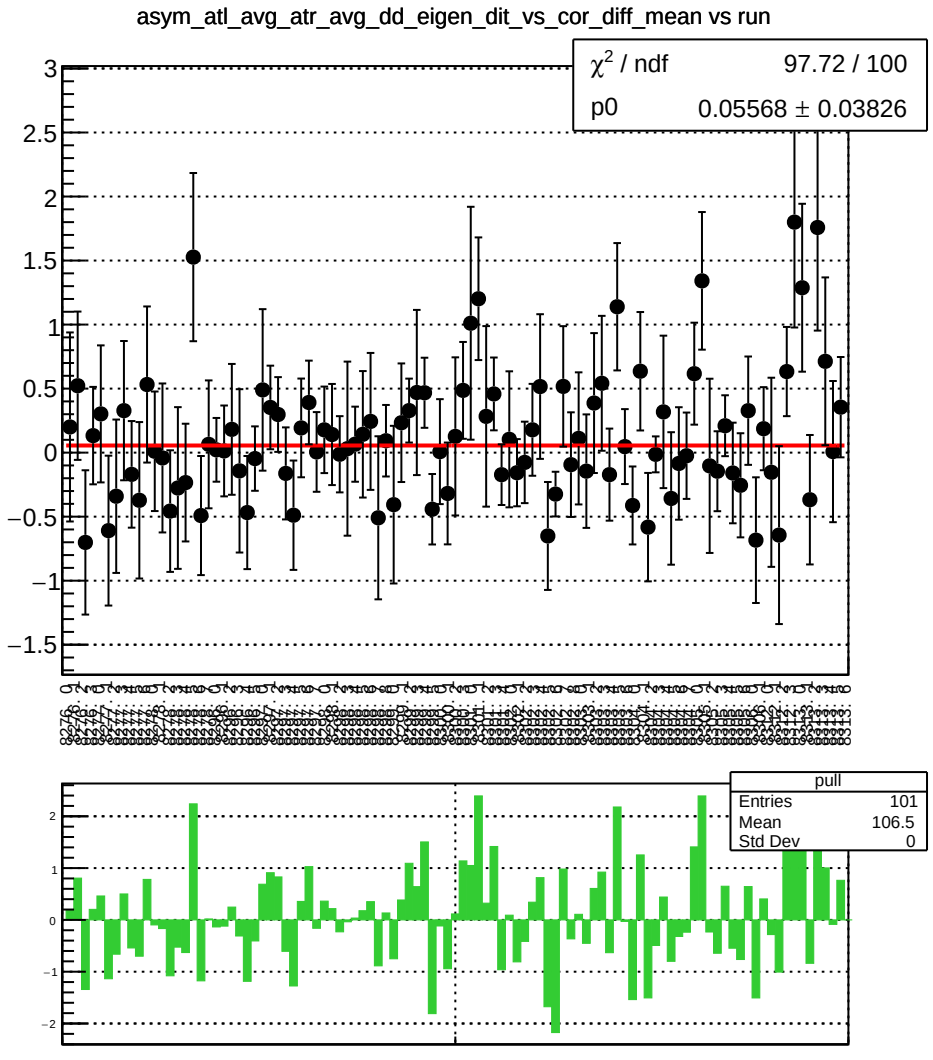

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.72 / 100
p0 0.05567 ± 0.03826
pull
Entries 101
Mean 106.5
Std Dev 0

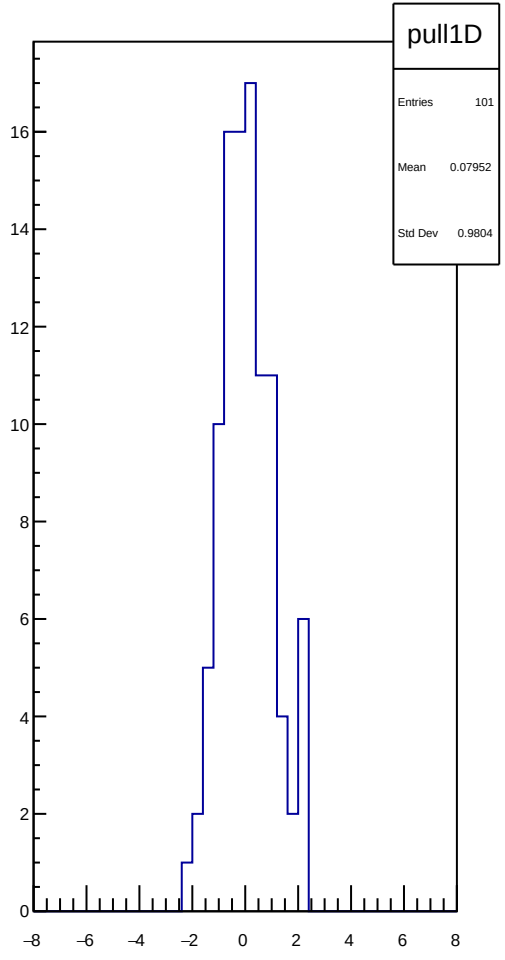

pull1D
Entries 101
Mean 0.07952
Std Dev 0.9804

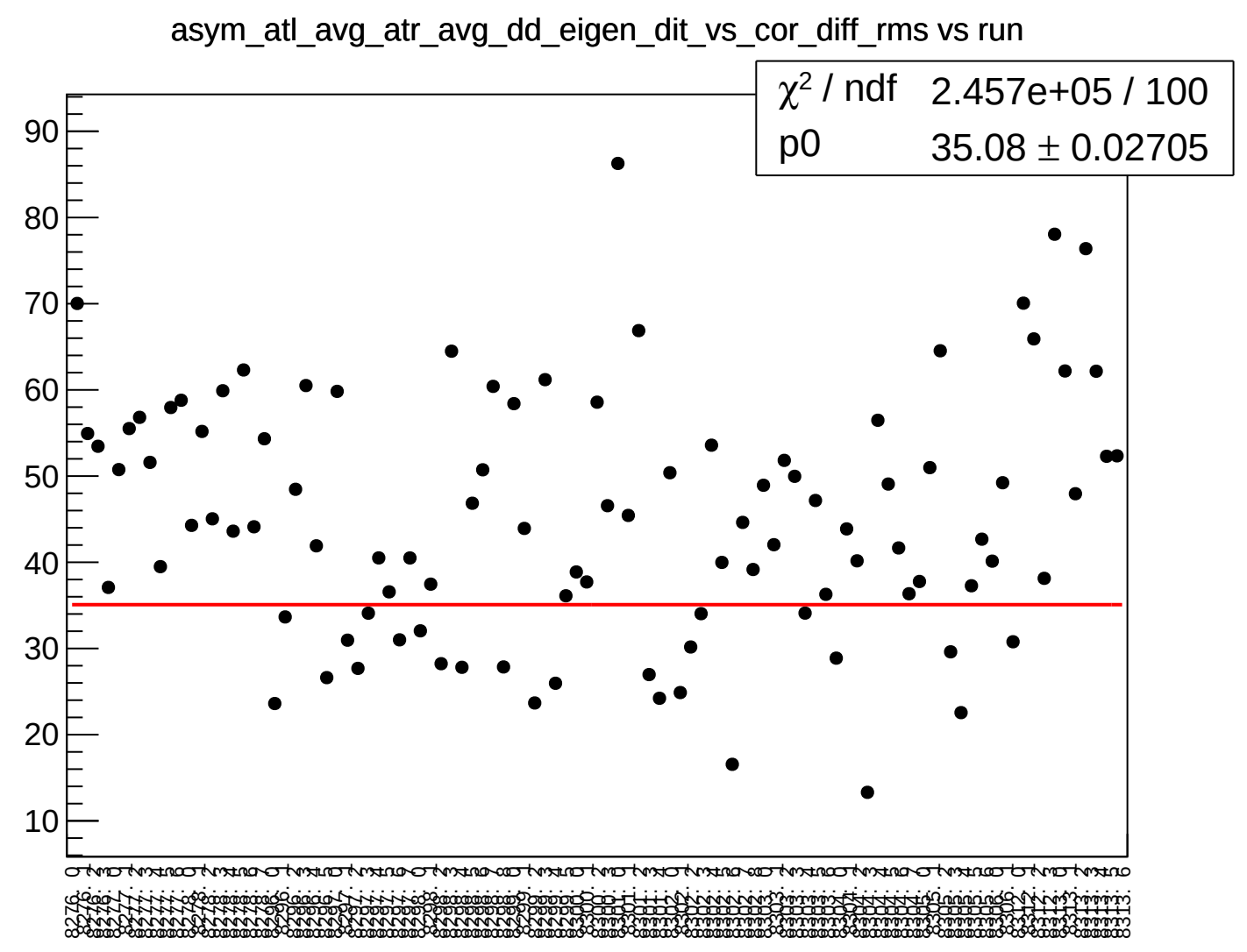

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.457e+05 / 100
p0 35.08 ± 0.02705
90
80
70
60
50
40
30
20
10

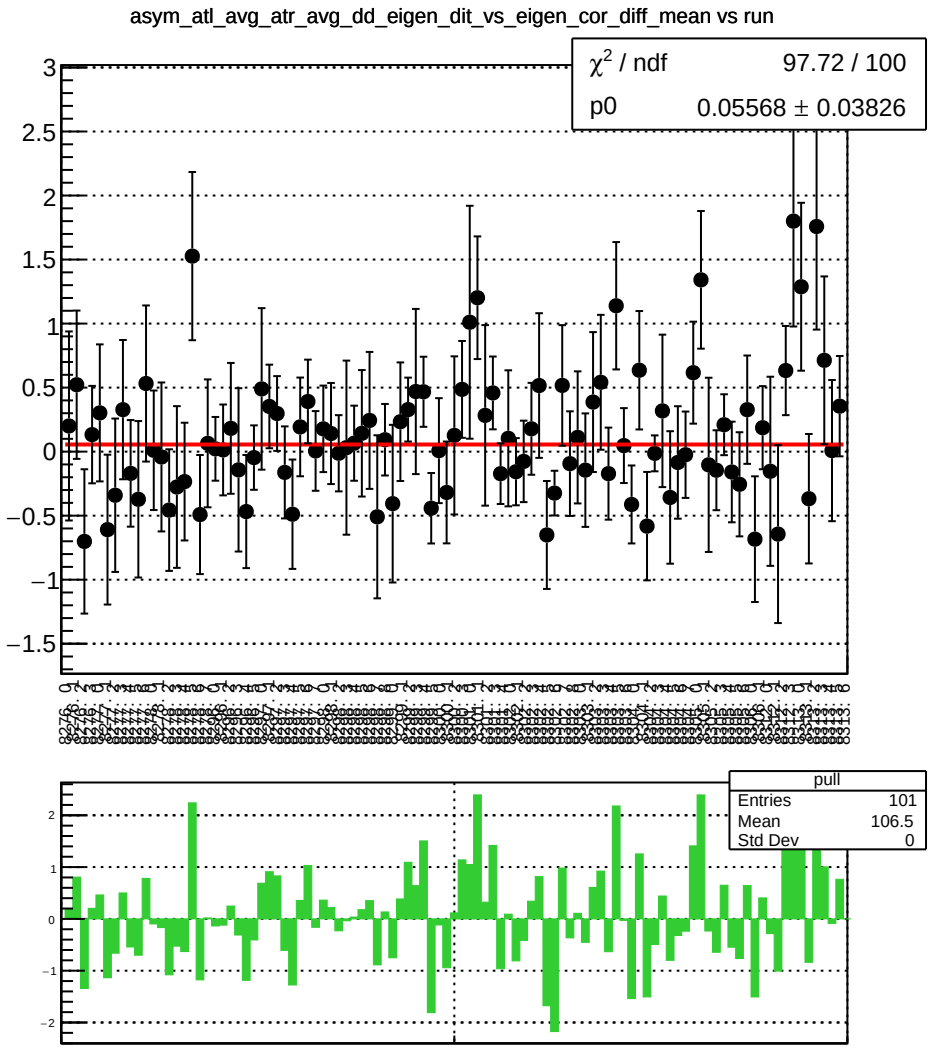

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 109.2 / 100
p0 1.789e−06 ± 2.595e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 101
Mean 40.44
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.03138
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

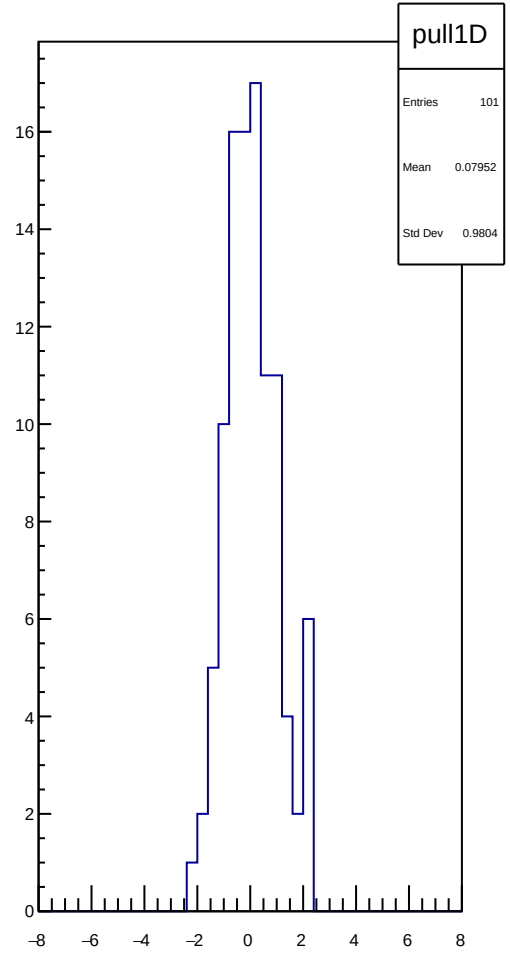

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.161e+04 / 100
p0 0.002493 ± 1.835e−06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016

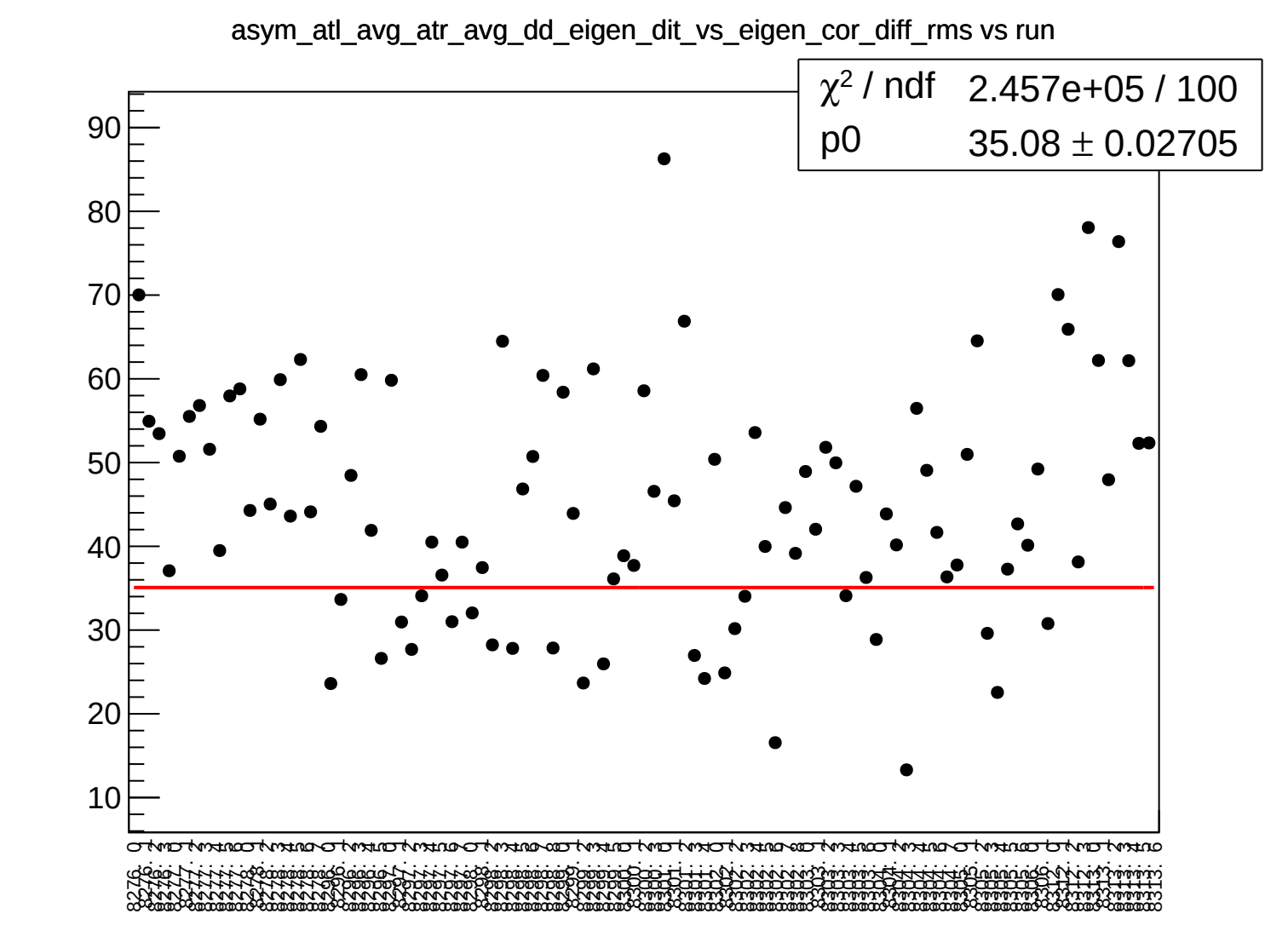

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.72 / 100
p0 0.05568 ± 0.03826
pull
Entries 101
Mean 106.5
Std Dev 0

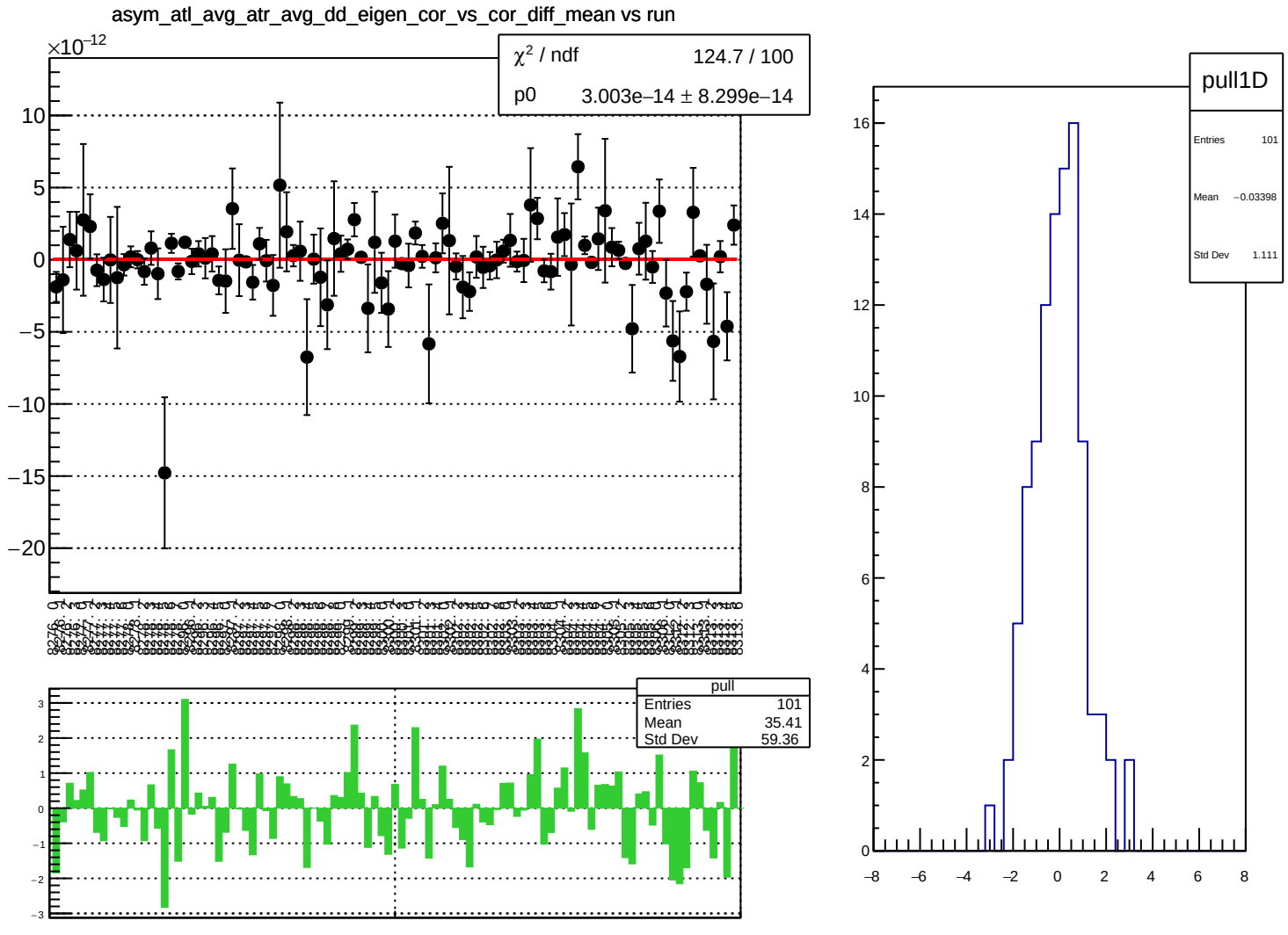

pull1D
Entries 101
Mean 0.07952
Std Dev 0.9804

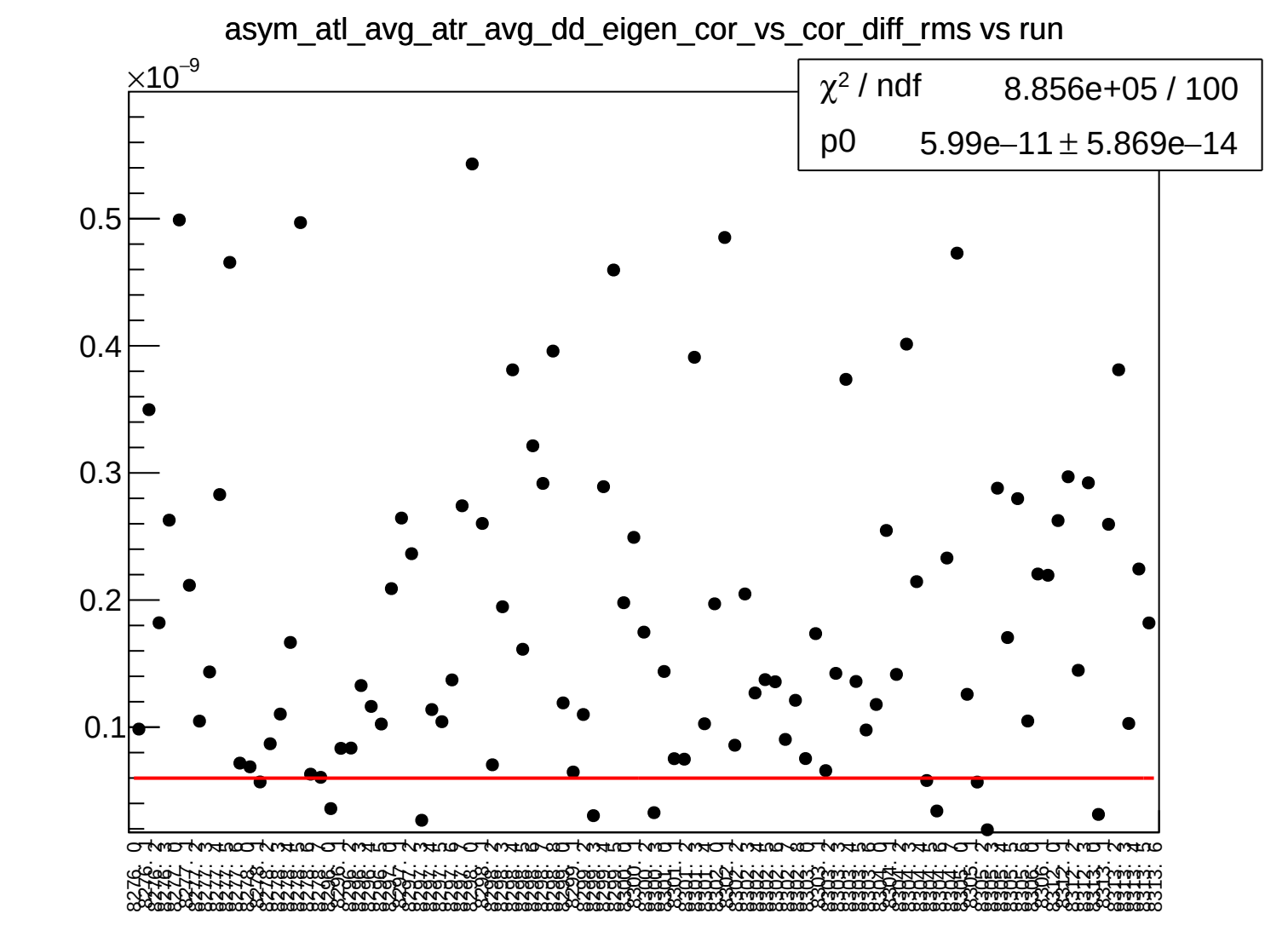

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.457e+05 / 100
p0 35.08 ± 0.02705
90
80
70
60
50
40
30
20
10

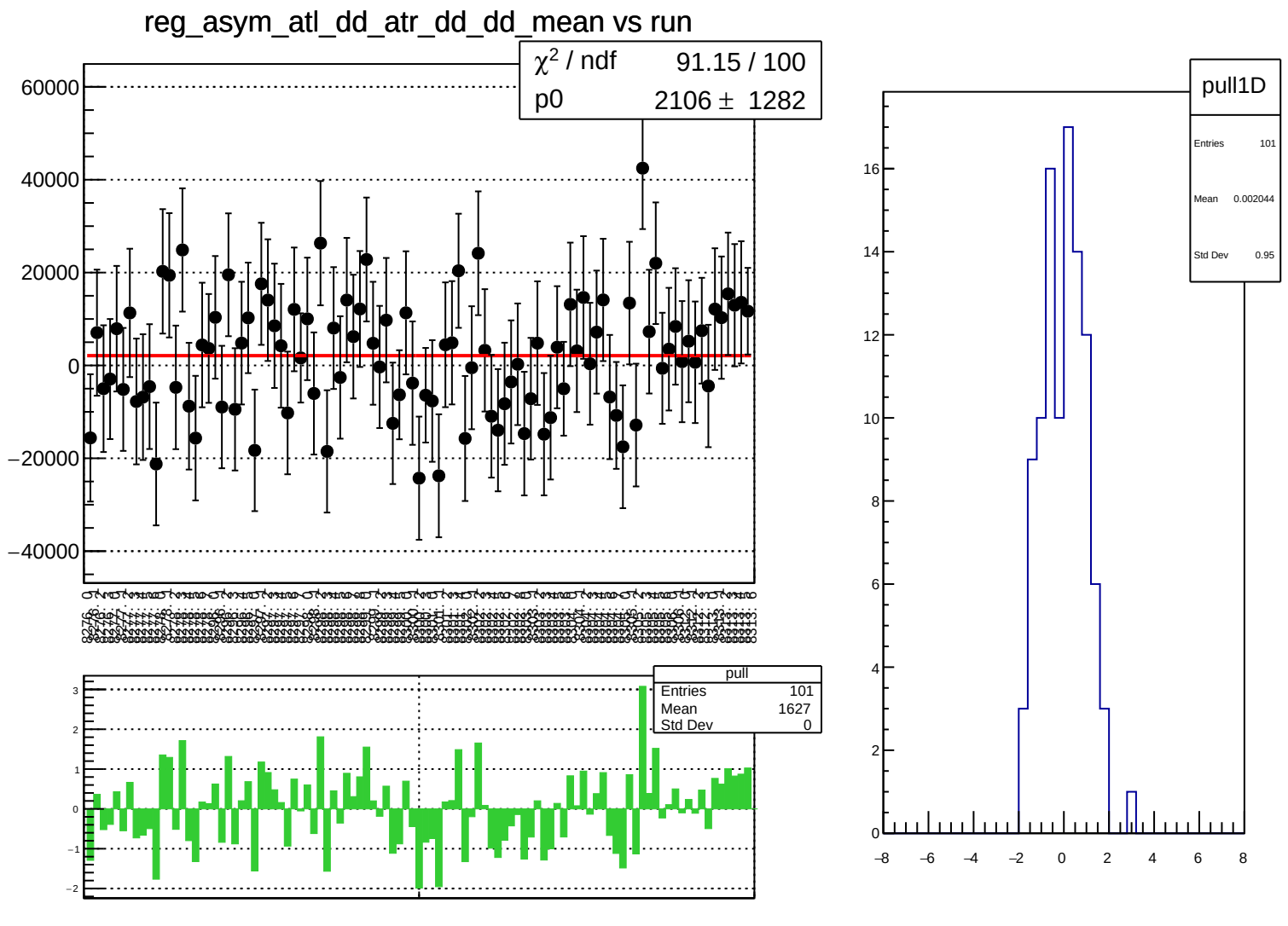

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.72 / 100
p0 0.05568 ± 0.03826
pull
Entries 101
Mean 106.5
Std Dev 0

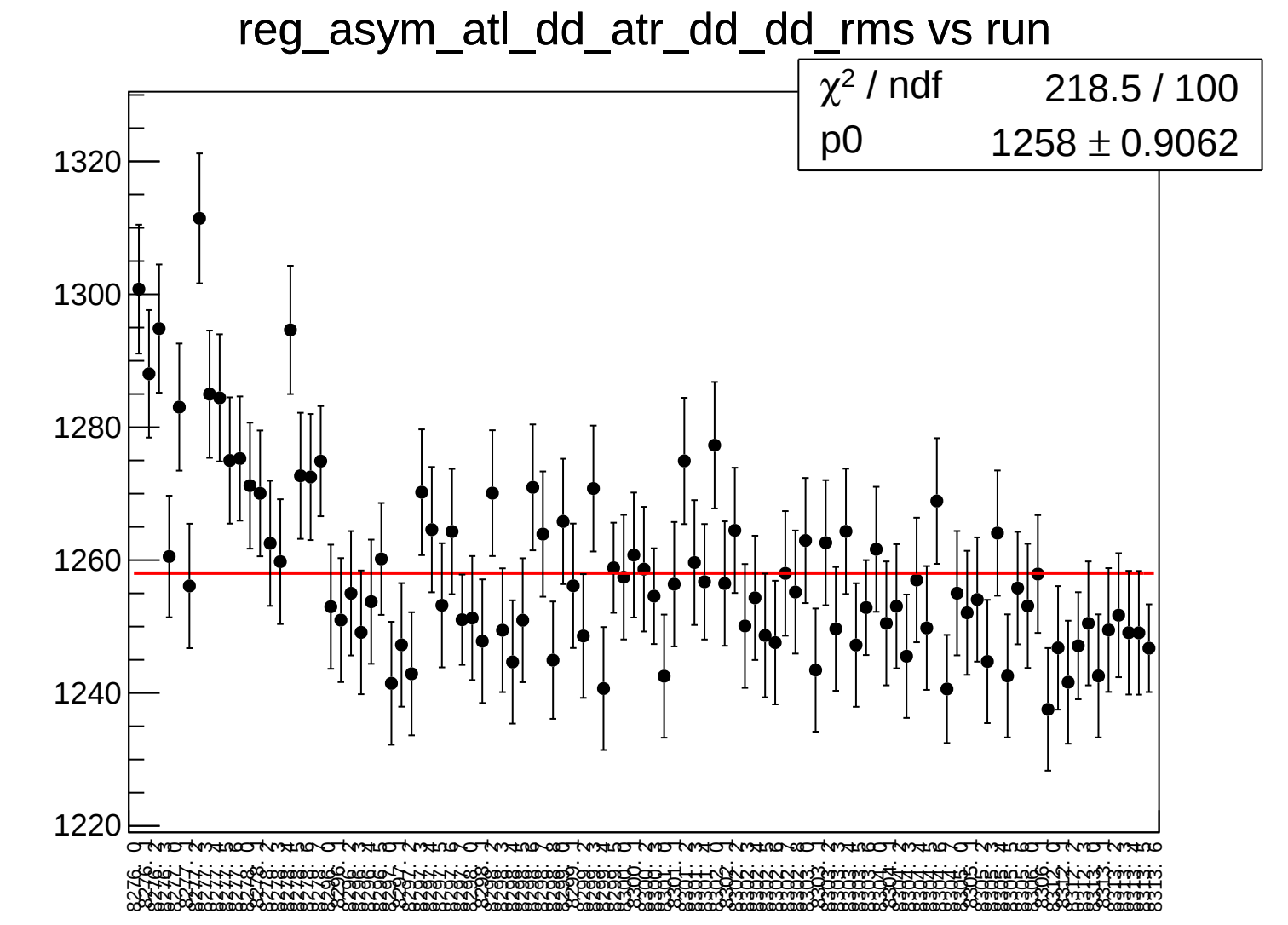

pull1D
Entries 101
Mean 0.07952
Std Dev 0.9804

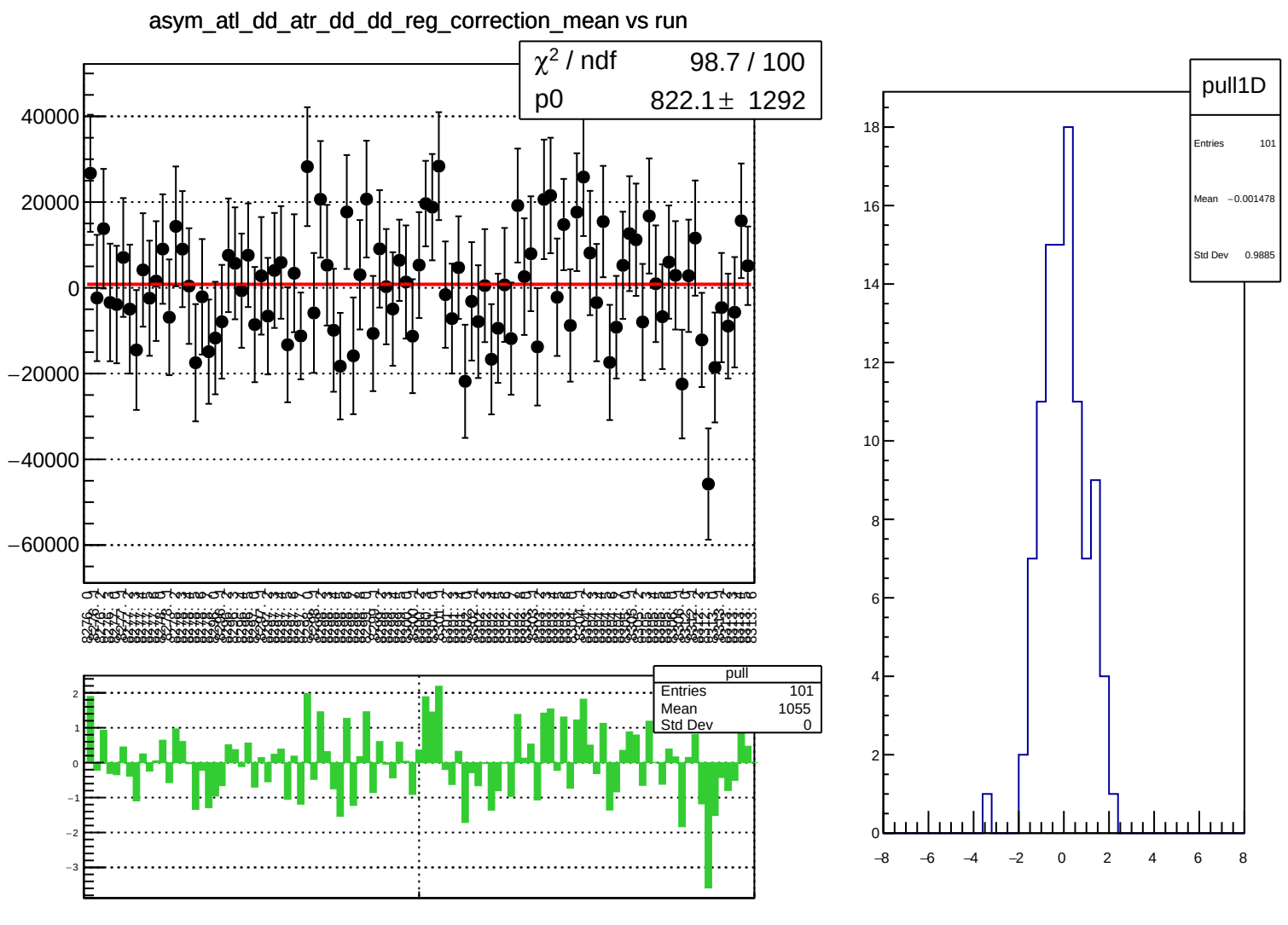

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.457e+05 / 100
p0 35.08 ± 0.02705
90
80
70
60
50
40
30
20
10

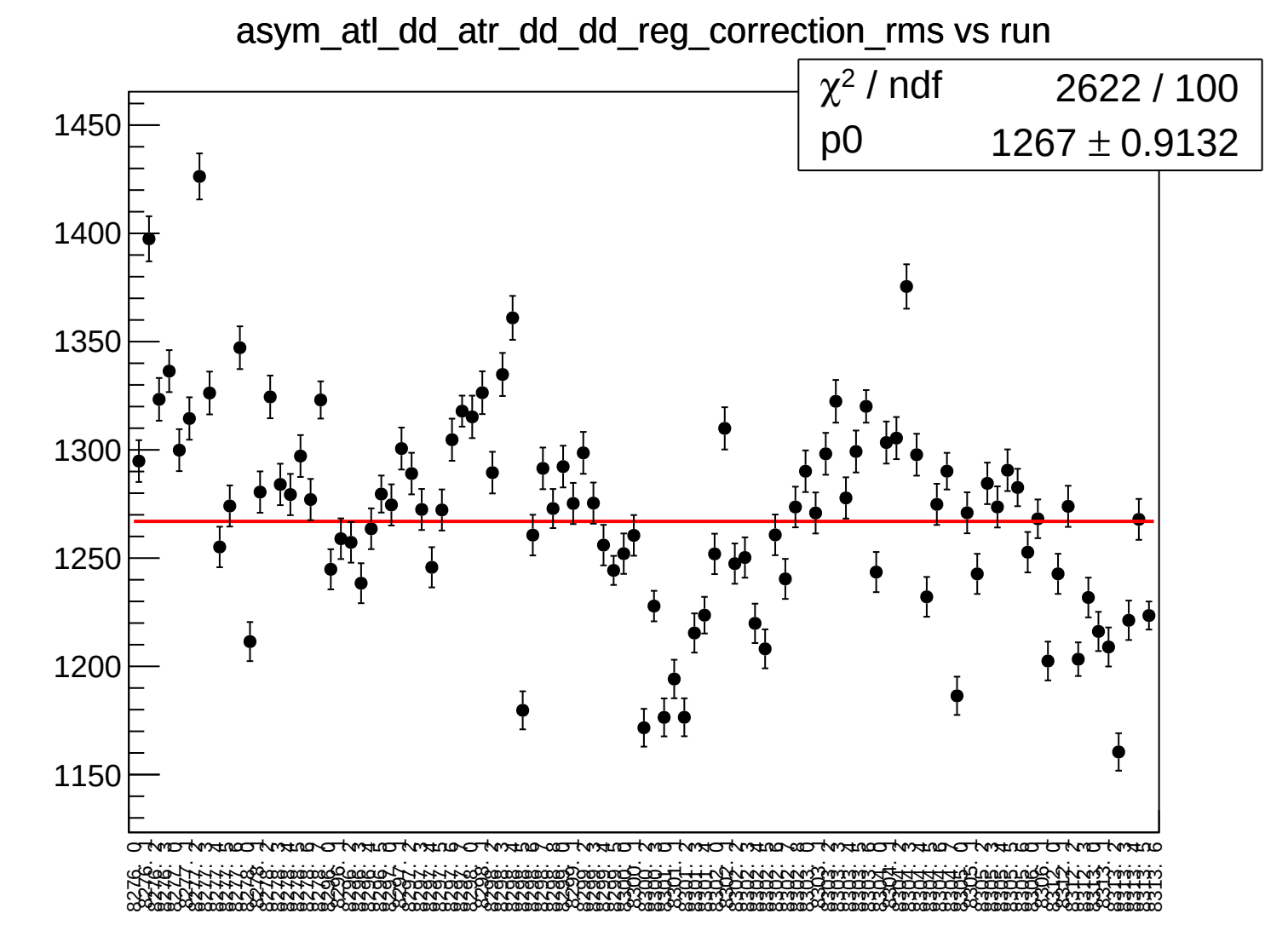

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 124.7 / 100
p0 3.003e−14 ± 8.299e−14
10
5
0
−5
−10
−15
−20
pull
Entries 101
Mean 35.41
Std Dev 59.36
3
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean −0.03398
Std Dev 1.111
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

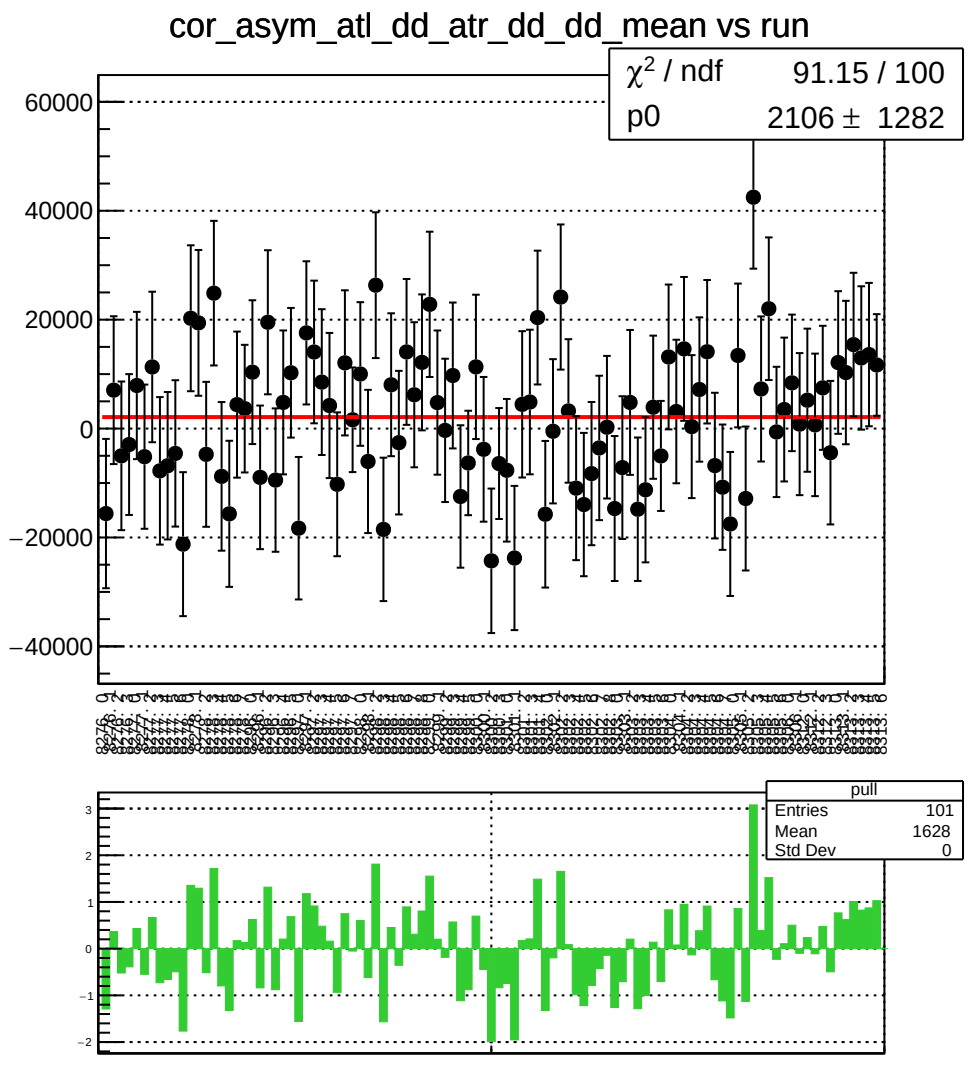

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.856e+05 / 100
p0 5.99e−11 ± 5.869e−14
0.5
0.4
0.3
0.2
0.1

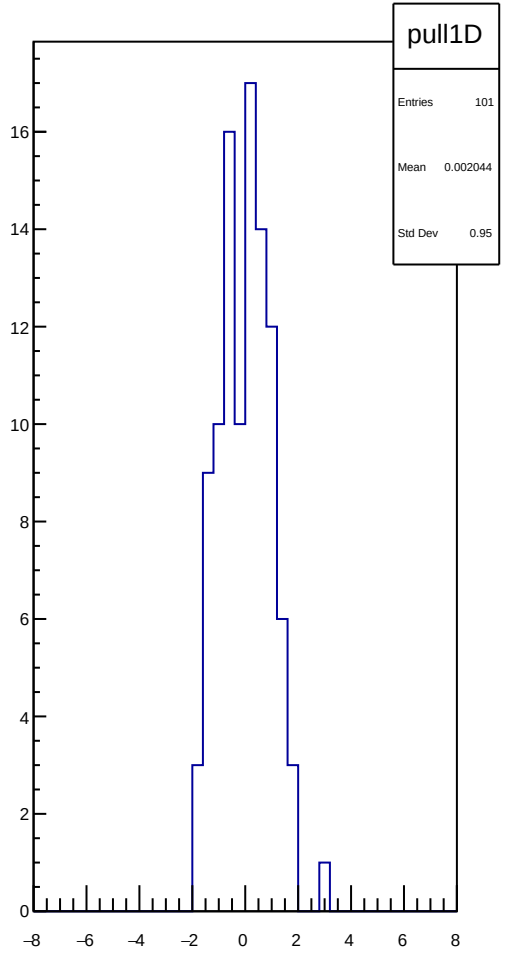

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 91.15 / 100
p0 2106 ± 1282
60000
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 1627
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.002044
Std Dev 0.95
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

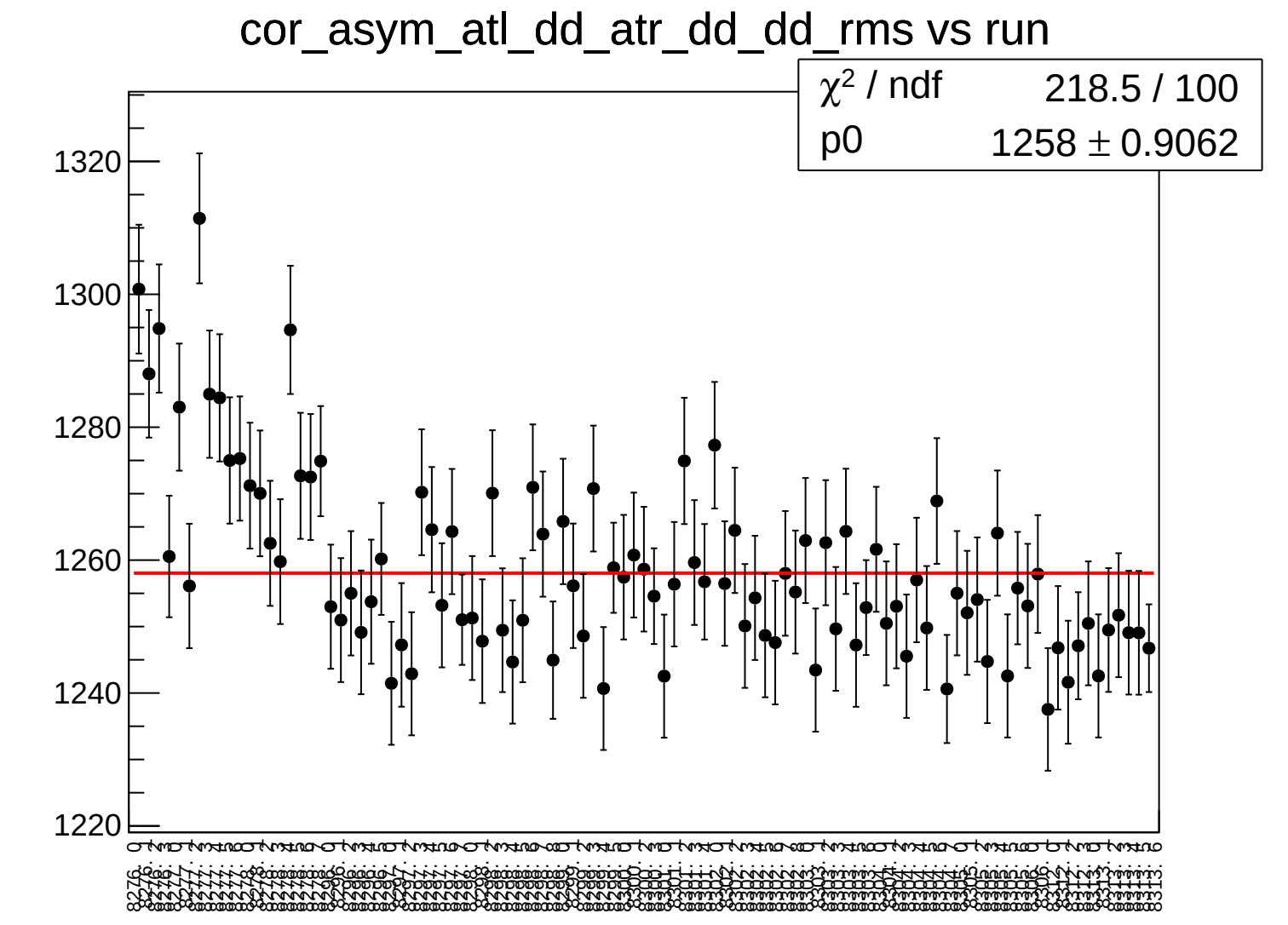

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 218.5 / 100
p0 1258 ± 0.9062
1320
1300
1280
1260
1240
1220

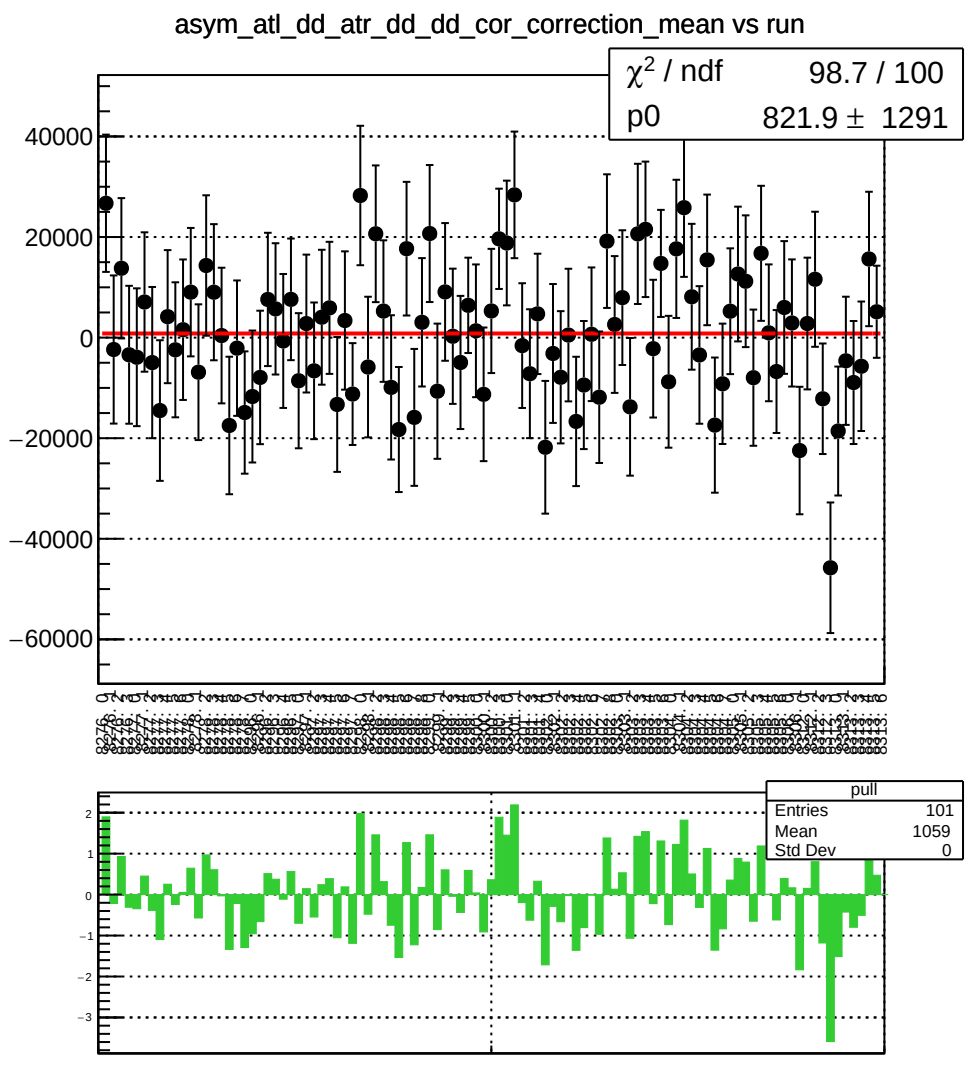

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 98.7 / 100
p0 822.1 ± 1292
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean 1055
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean −0.001478
Std Dev 0.9885
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

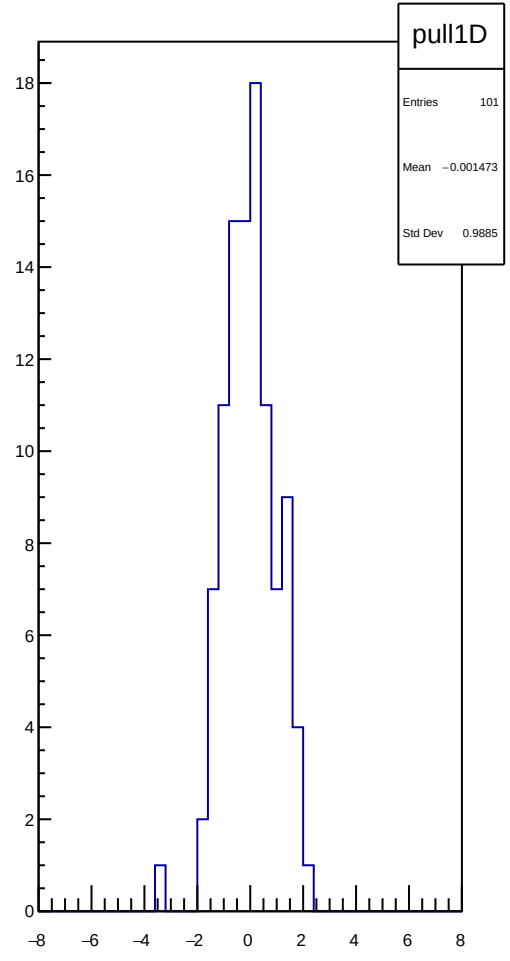

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 2622 / 100
p0 1267 ± 0.9132
1450
1400
1350
1300
1250
1200
1150

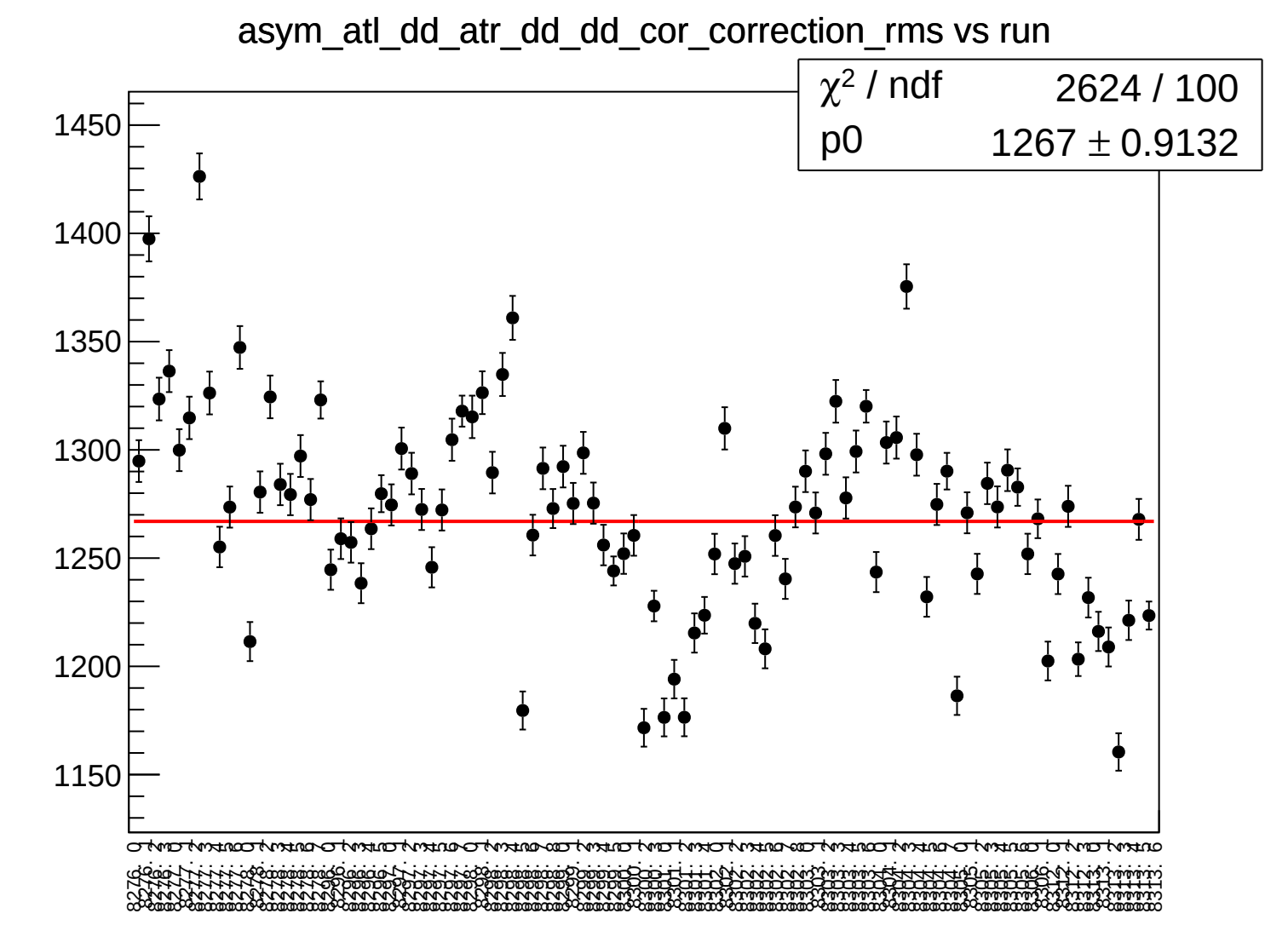

cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 91.15 / 100
p0 2106 ± 1282
60000
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 1628
Std Dev 0
3
2
1
0
−1
−2

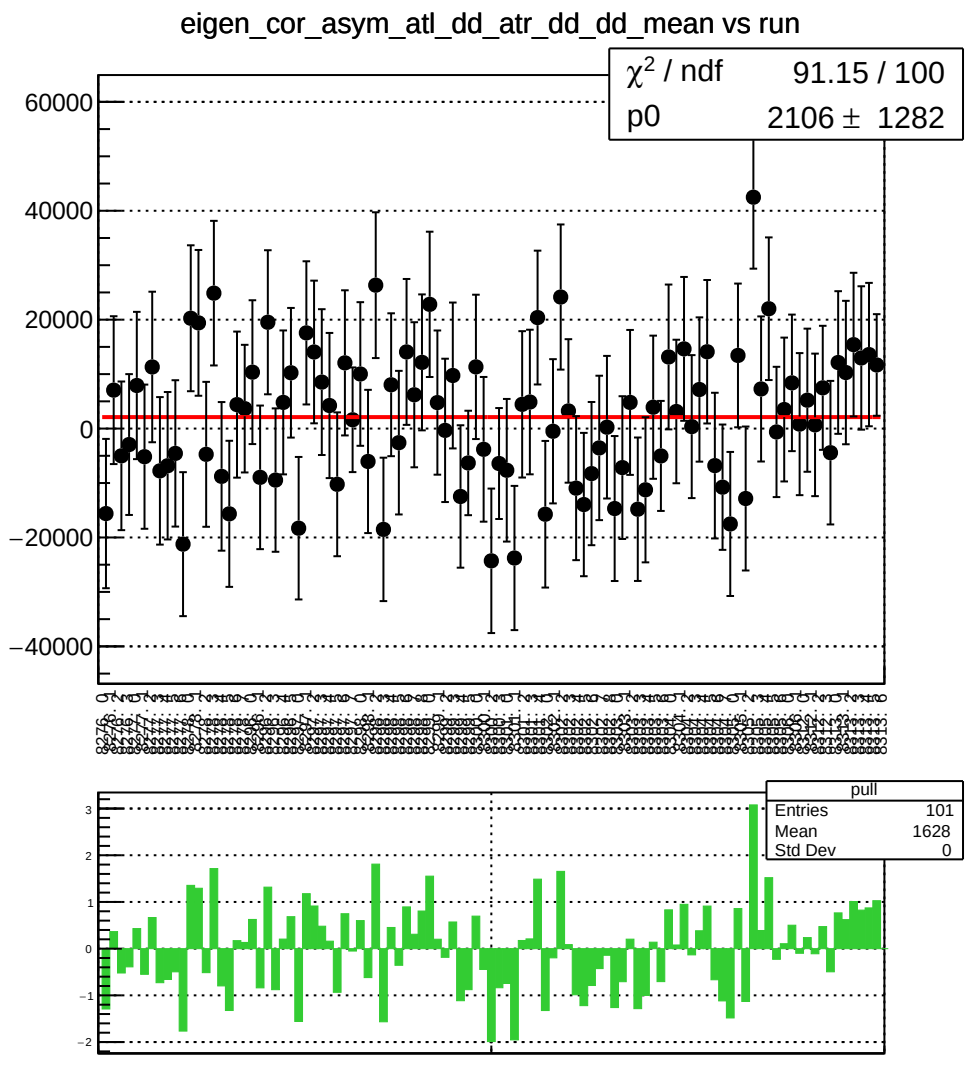

pull1D
Entries 101
Mean 0.002044
Std Dev 0.95
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

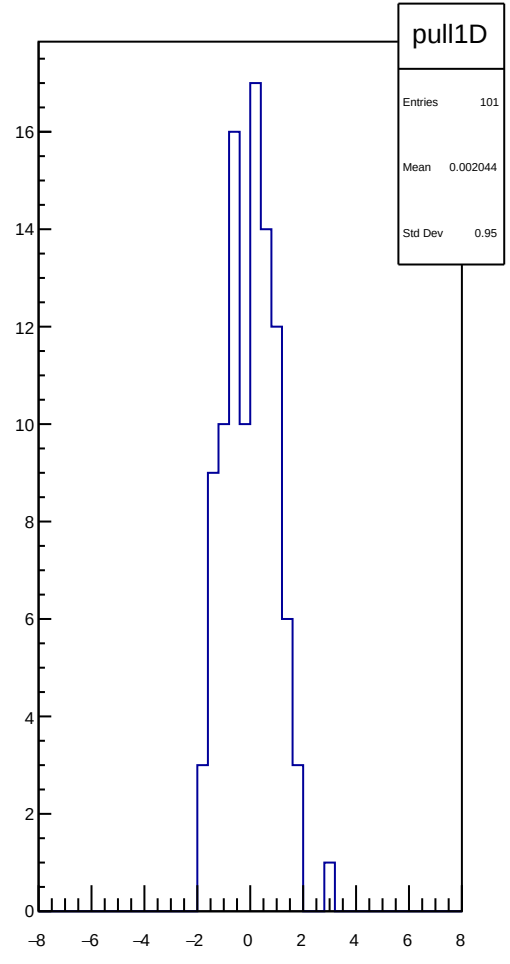

cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 218.5 / 100
p0 1258 ± 0.9062
1320
1300
1280
1260
1240
1220

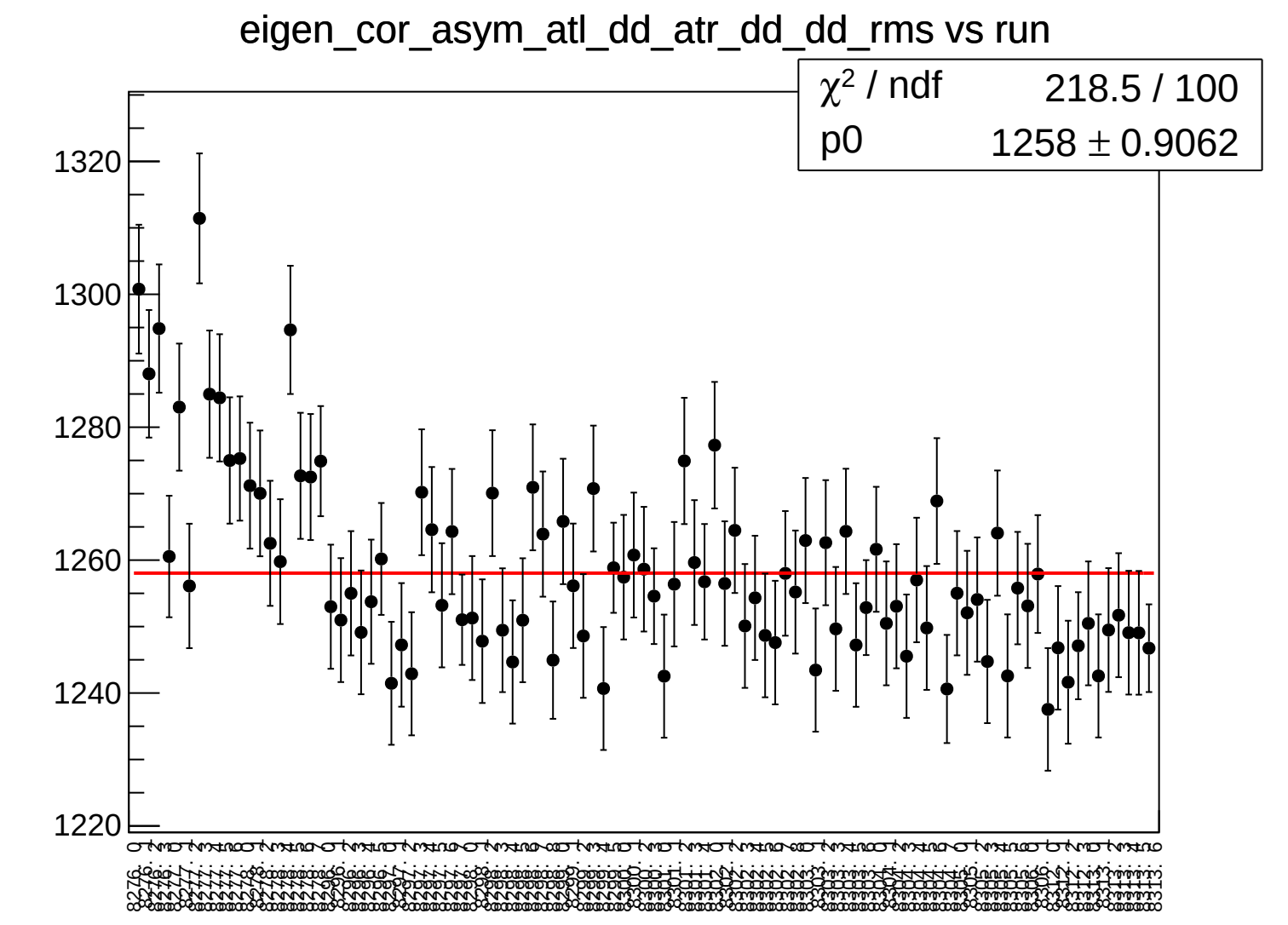

asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 98.7 / 100
p0 821.9 ± 1291
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean 1059
Std Dev 0
2
1
0
−1
−2
−3

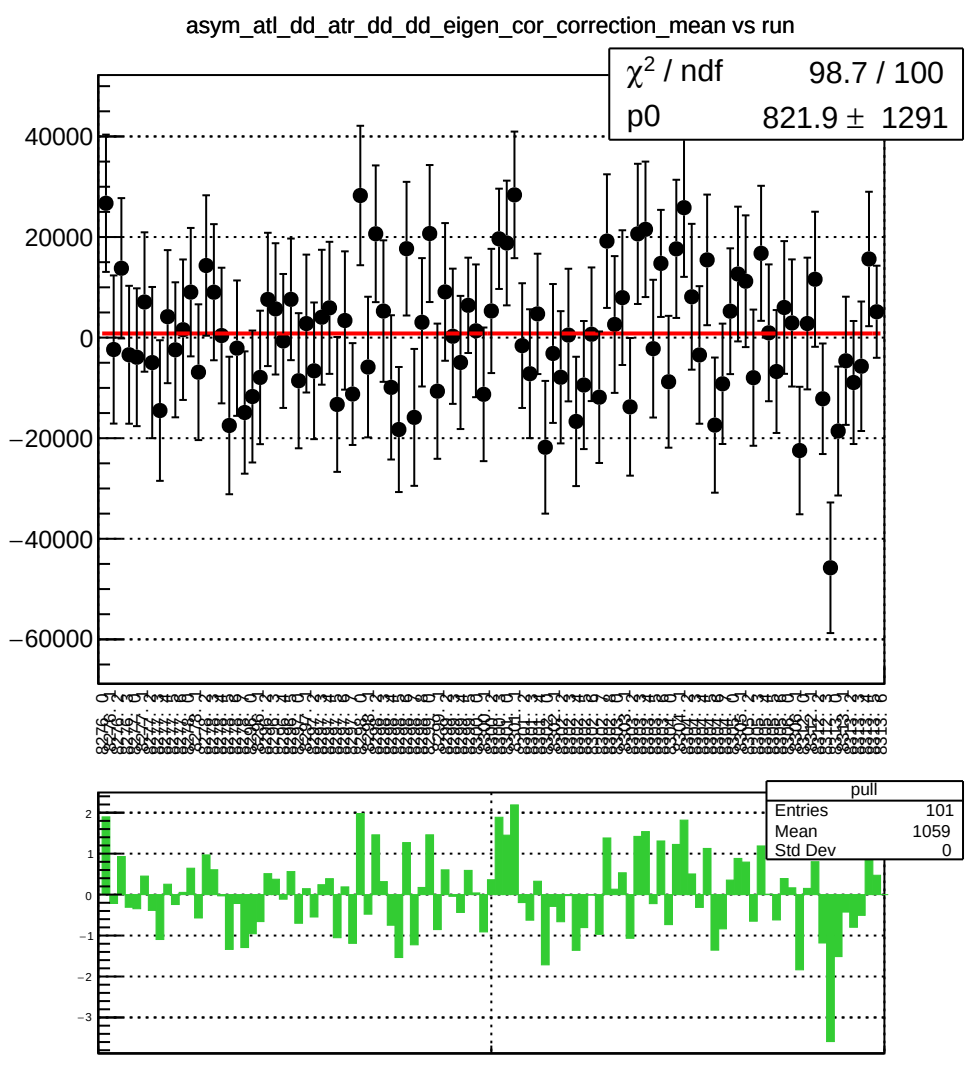

pull1D
Entries 101
Mean −0.001473
Std Dev 0.9885
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

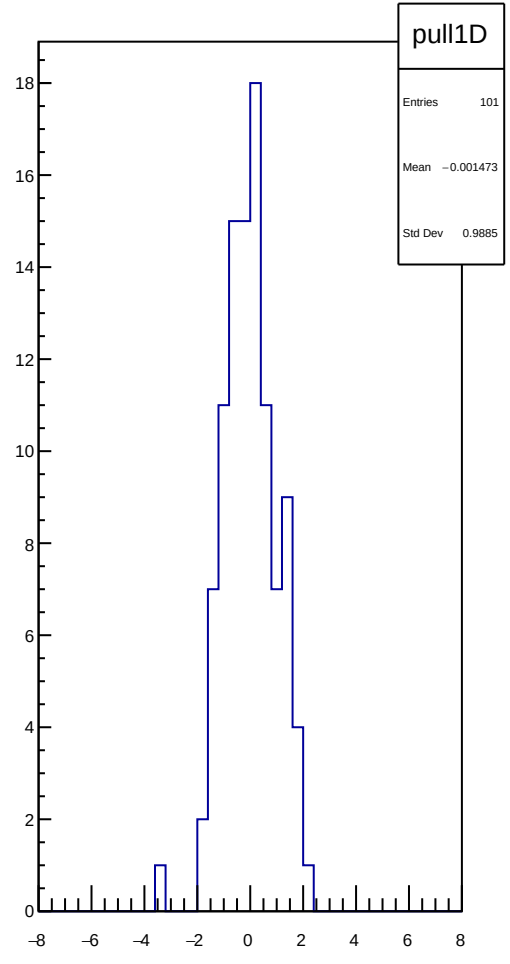

asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 2624 / 100
p0 1267 ± 0.9132
1450
1400
1350
1300
1250
1200
1150

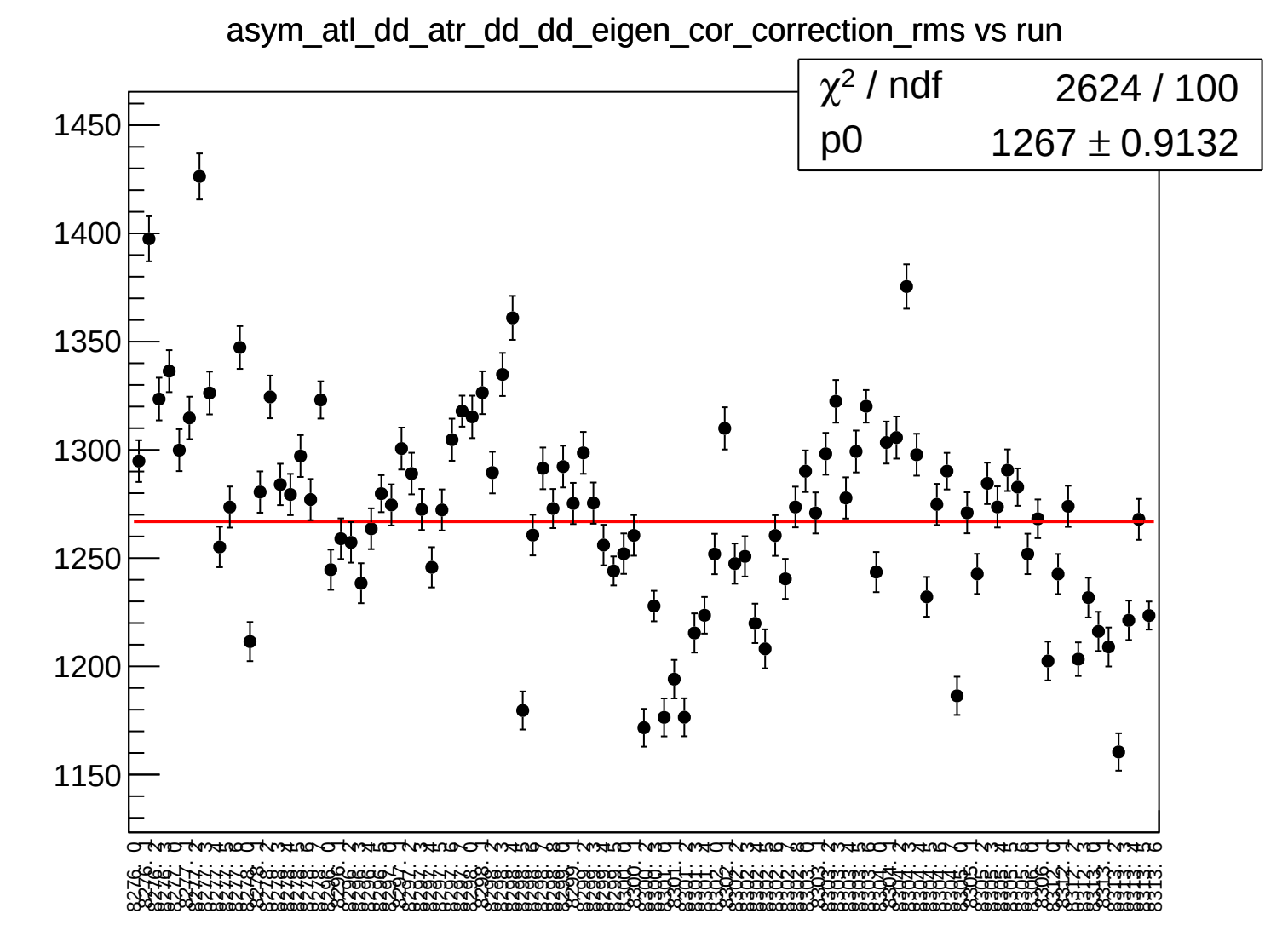

eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 91.15 / 100
p0 2106 ± 1282
60000
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 1628
Std Dev 0
3
2
1
0
−1
−2

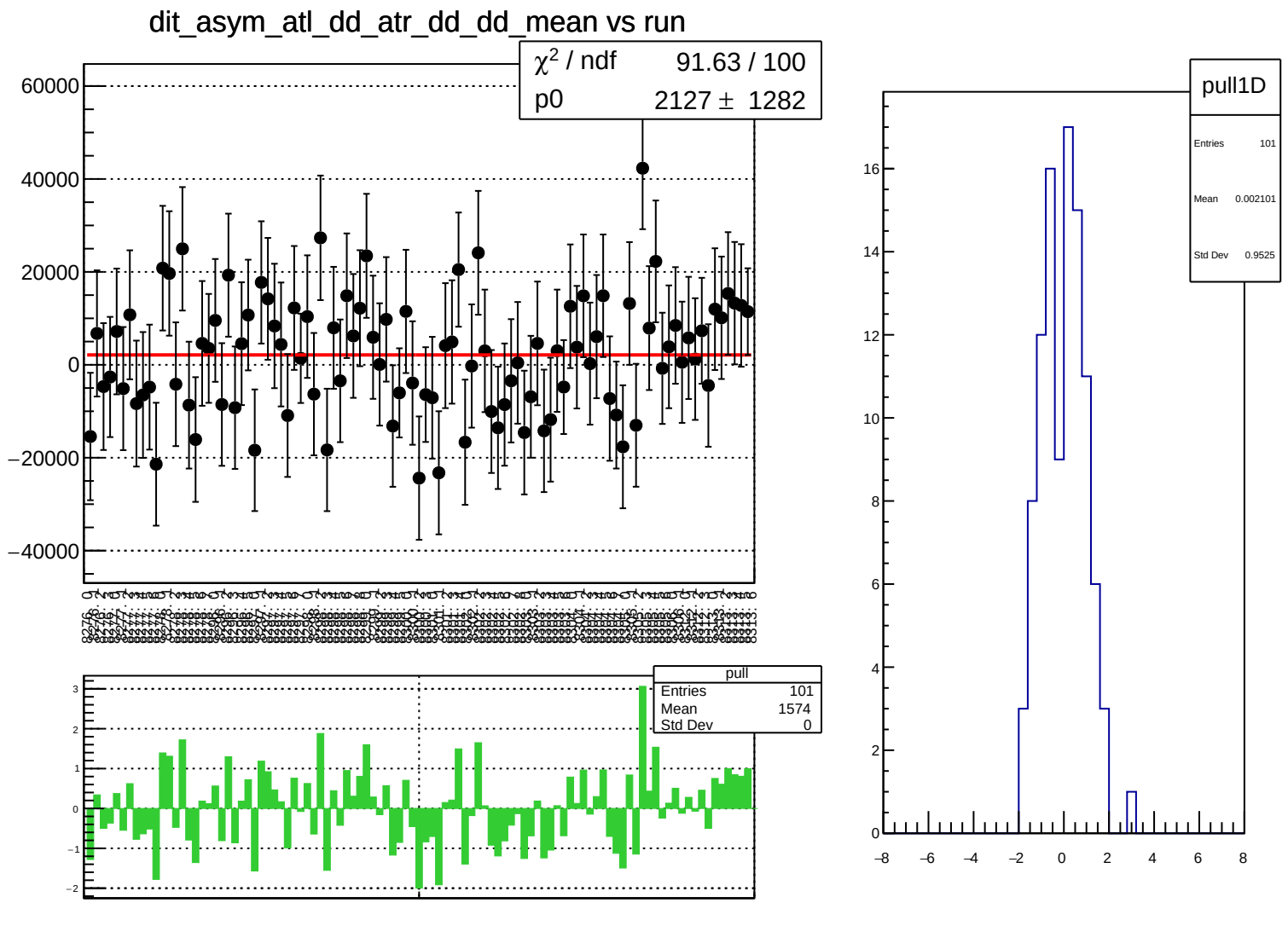

pull1D
Entries 101
Mean 0.002044
Std Dev 0.95
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

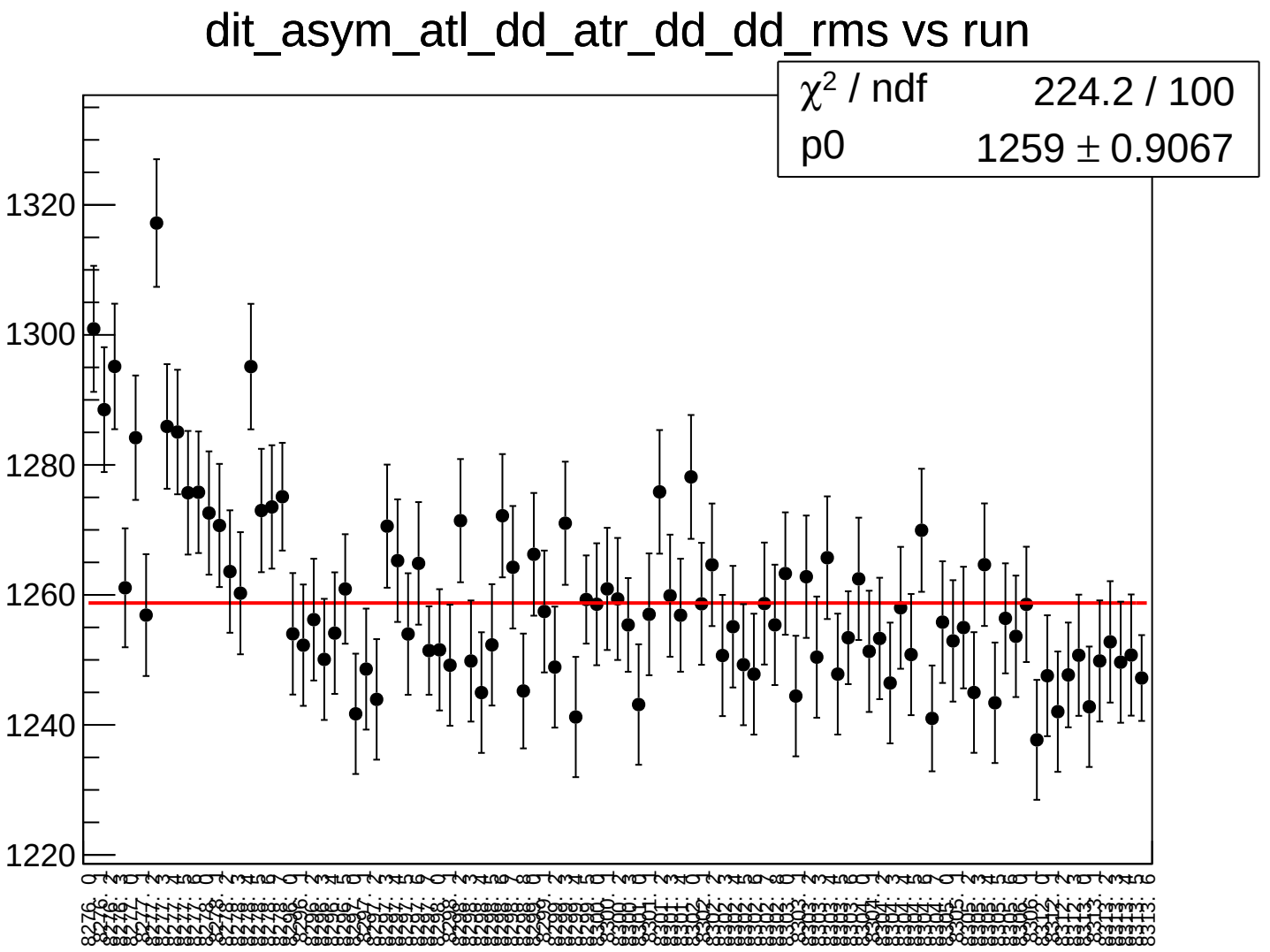

eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 218.5 / 100
p0 1258 ± 0.9062
1320
1300
1280
1260
1240
1220

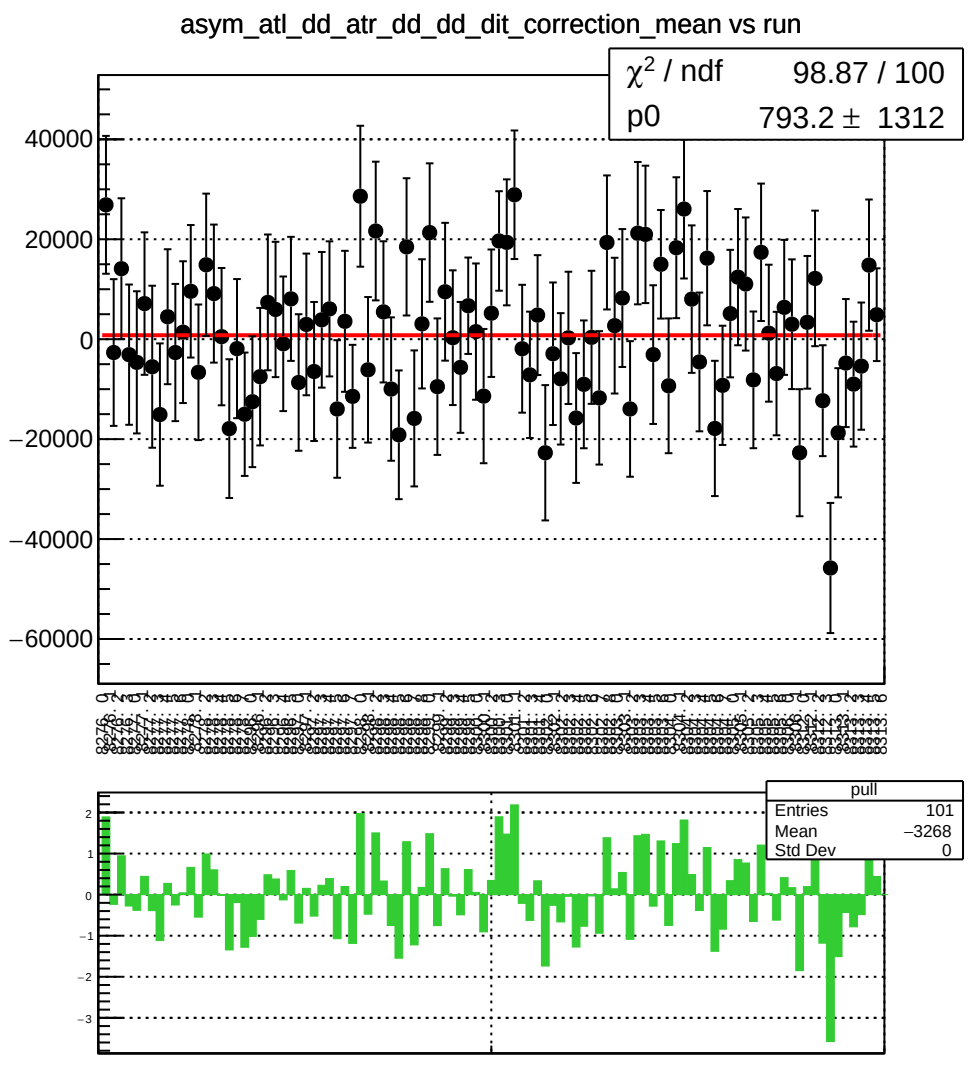

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 98.7 / 100
p0 821.9 ± 1291
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean 1059
Std Dev 0
2
1
0
−1
−2
−3

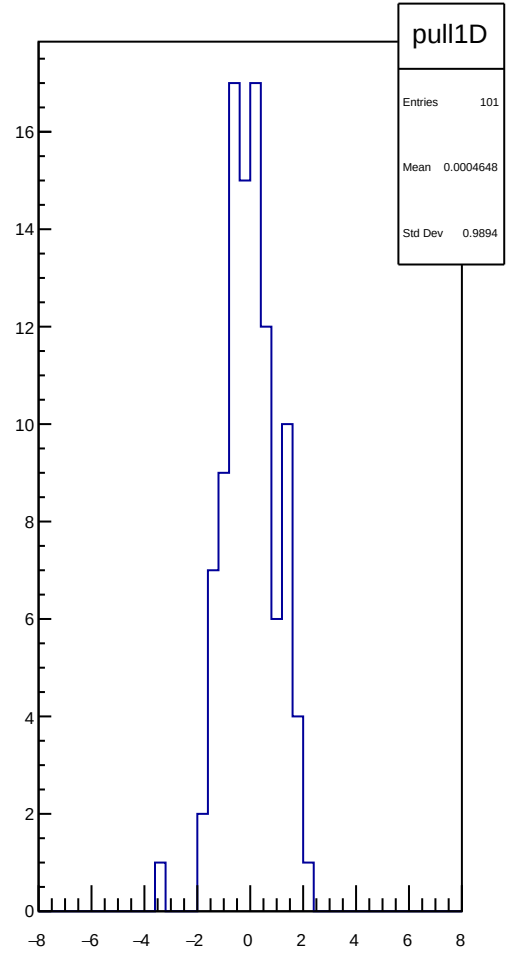

pull1D
Entries 101
Mean −0.001473
Std Dev 0.9885
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

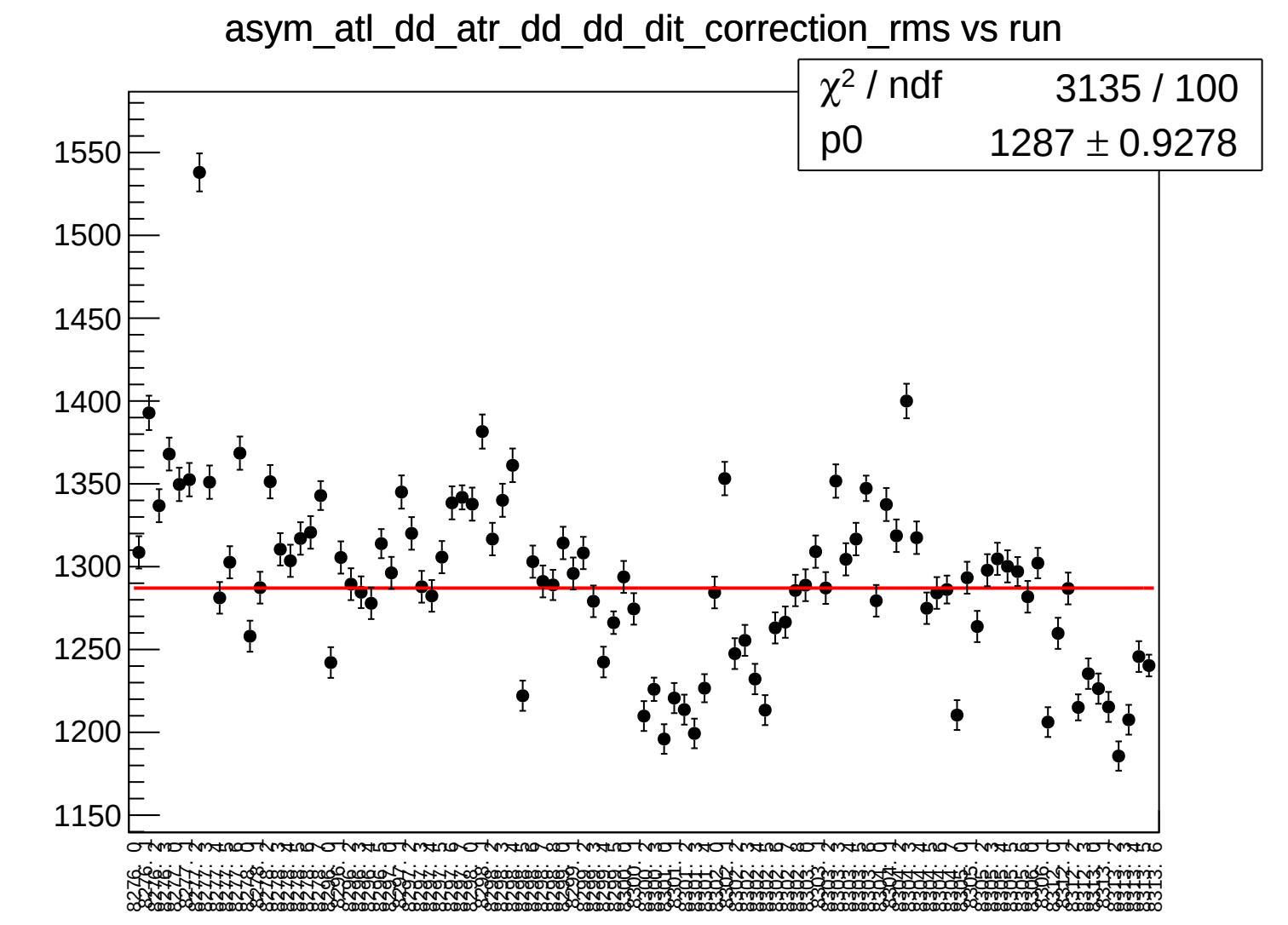

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 2624 / 100
p0 1267 ± 0.9132
1450
1400
1350
1300
1250
1200
1150

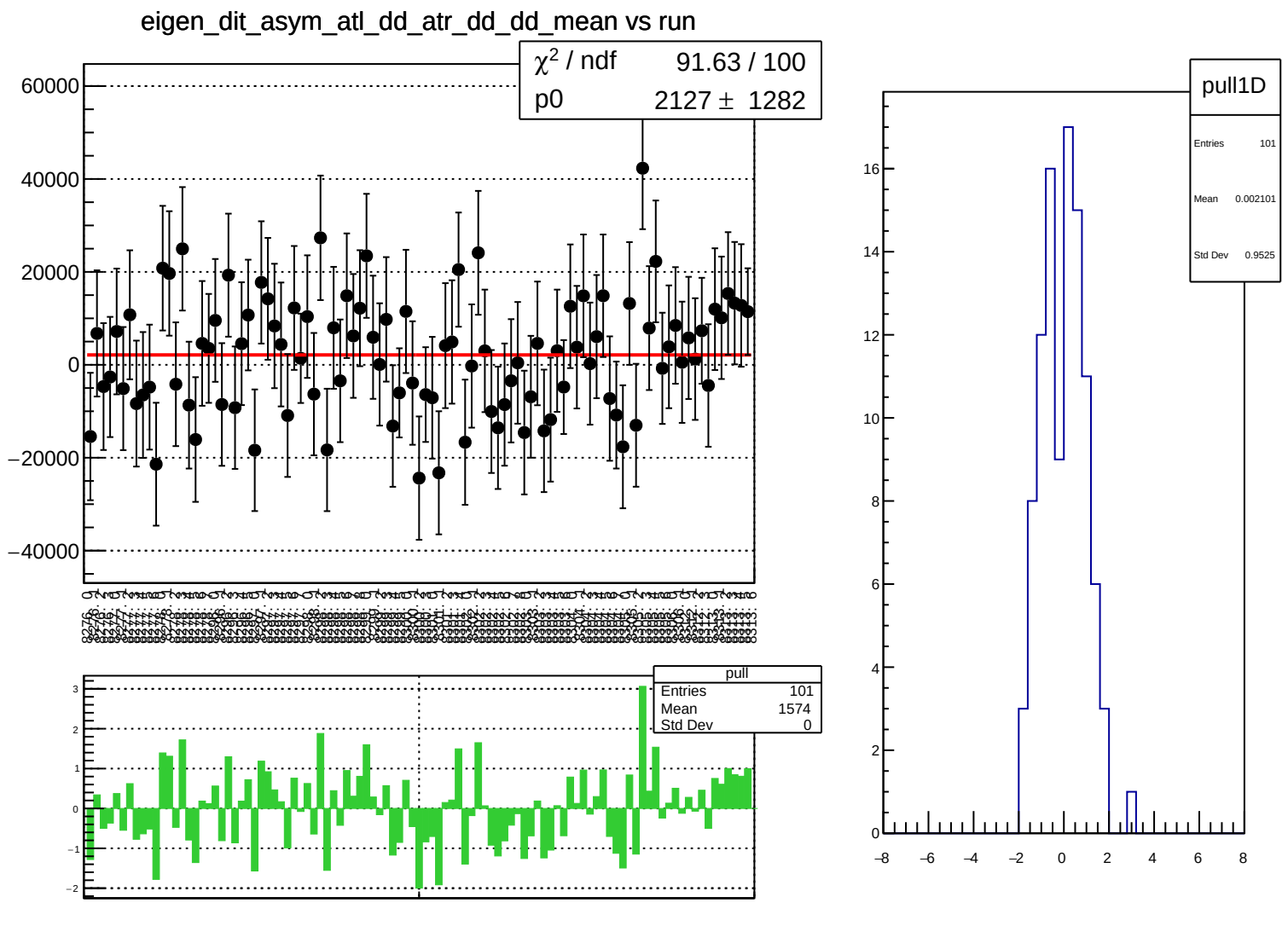

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 91.63 / 100
p0 2127 ± 1282
60000
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 1574
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.002101
Std Dev 0.9525
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

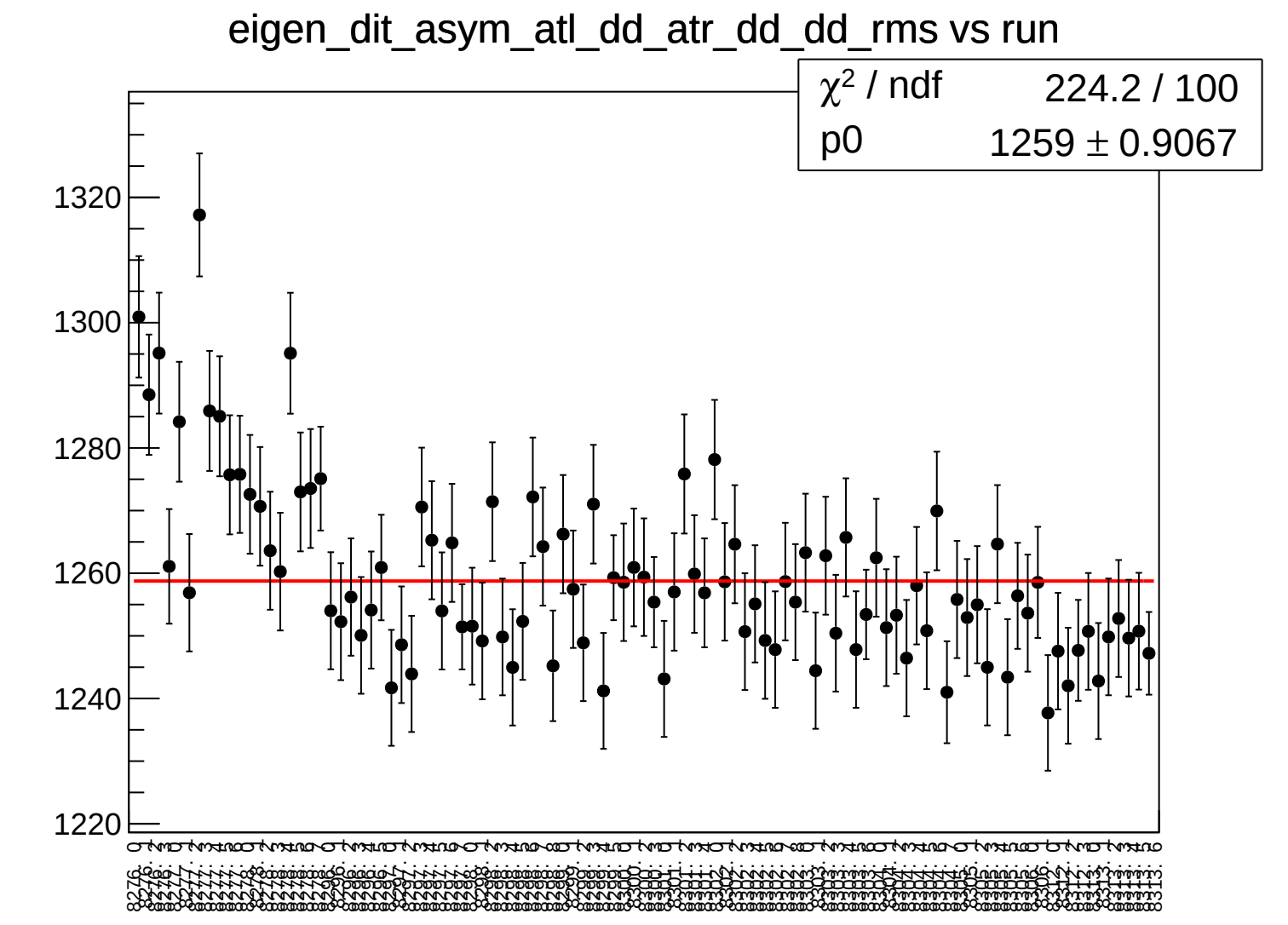

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 224.2 / 100
p0 1259 ± 0.9067
1320
1300
1280
1260
1240
1220

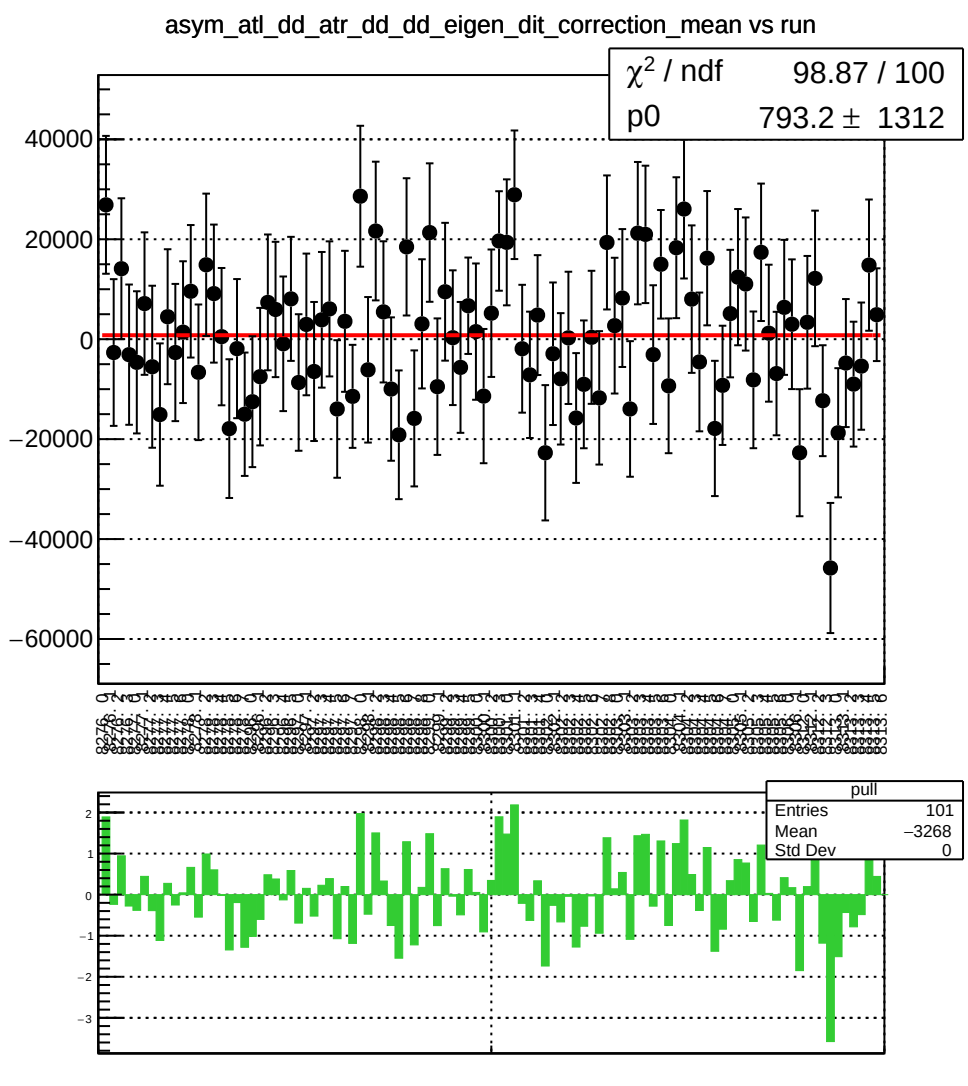

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 98.87 / 100
p0 793.2 ± 1312
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −3268
Std Dev 0
2
1
0
−1
−2
−3

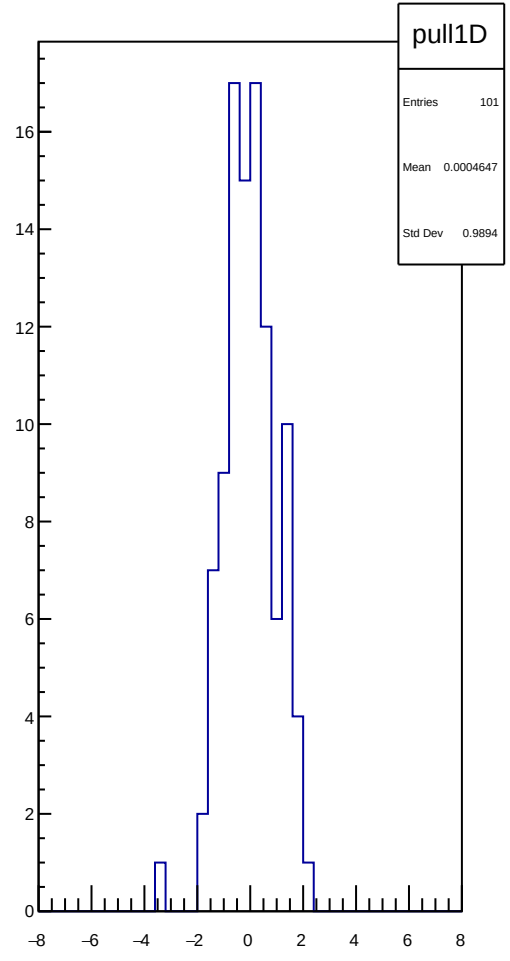

pull1D
Entries 101
Mean 0.0004648
Std Dev 0.9894
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

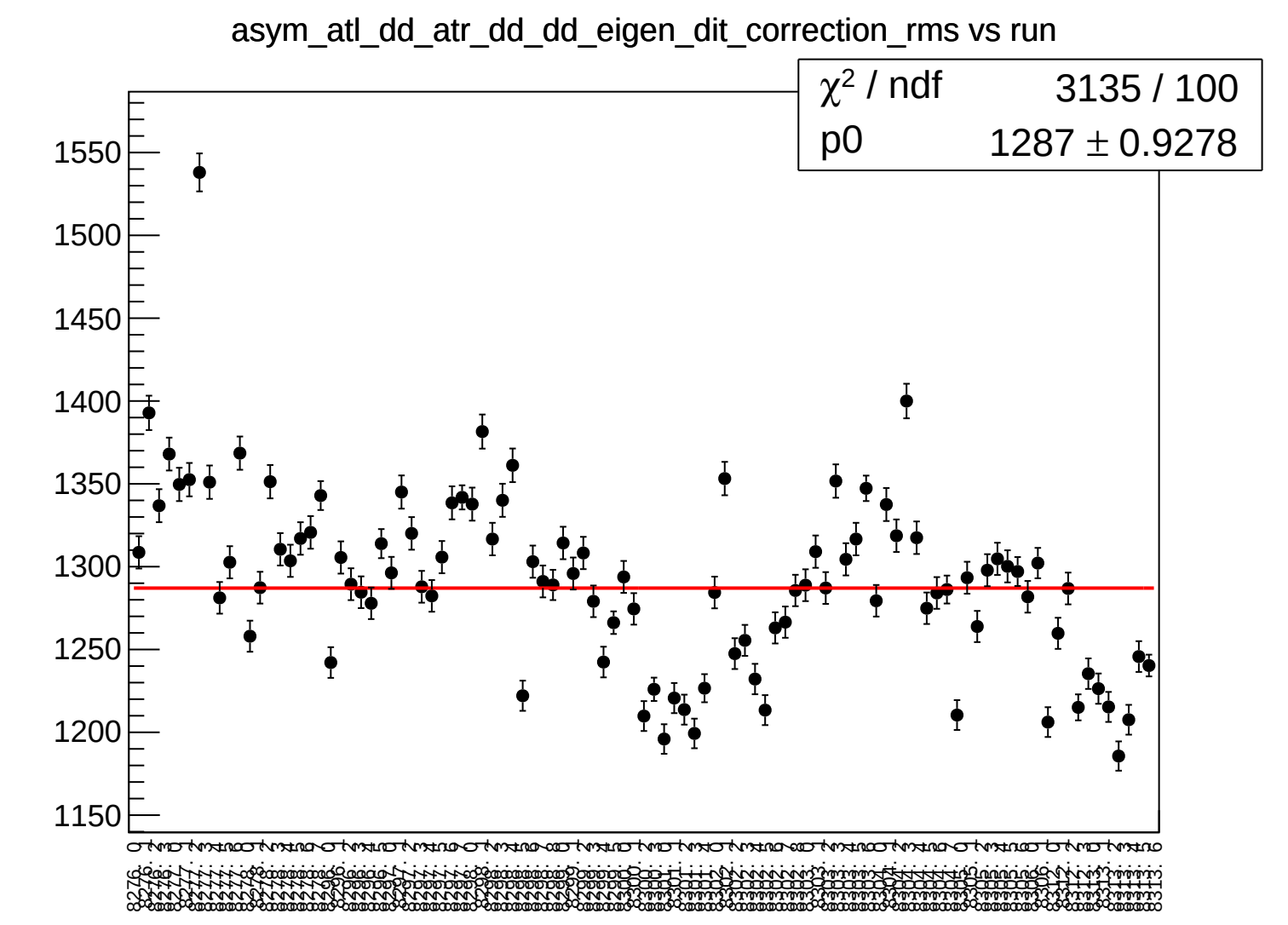

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 3135 / 100
p0 1287 ± 0.9278
1550
1500
1450
1400
1350
1300
1250
1200
1150

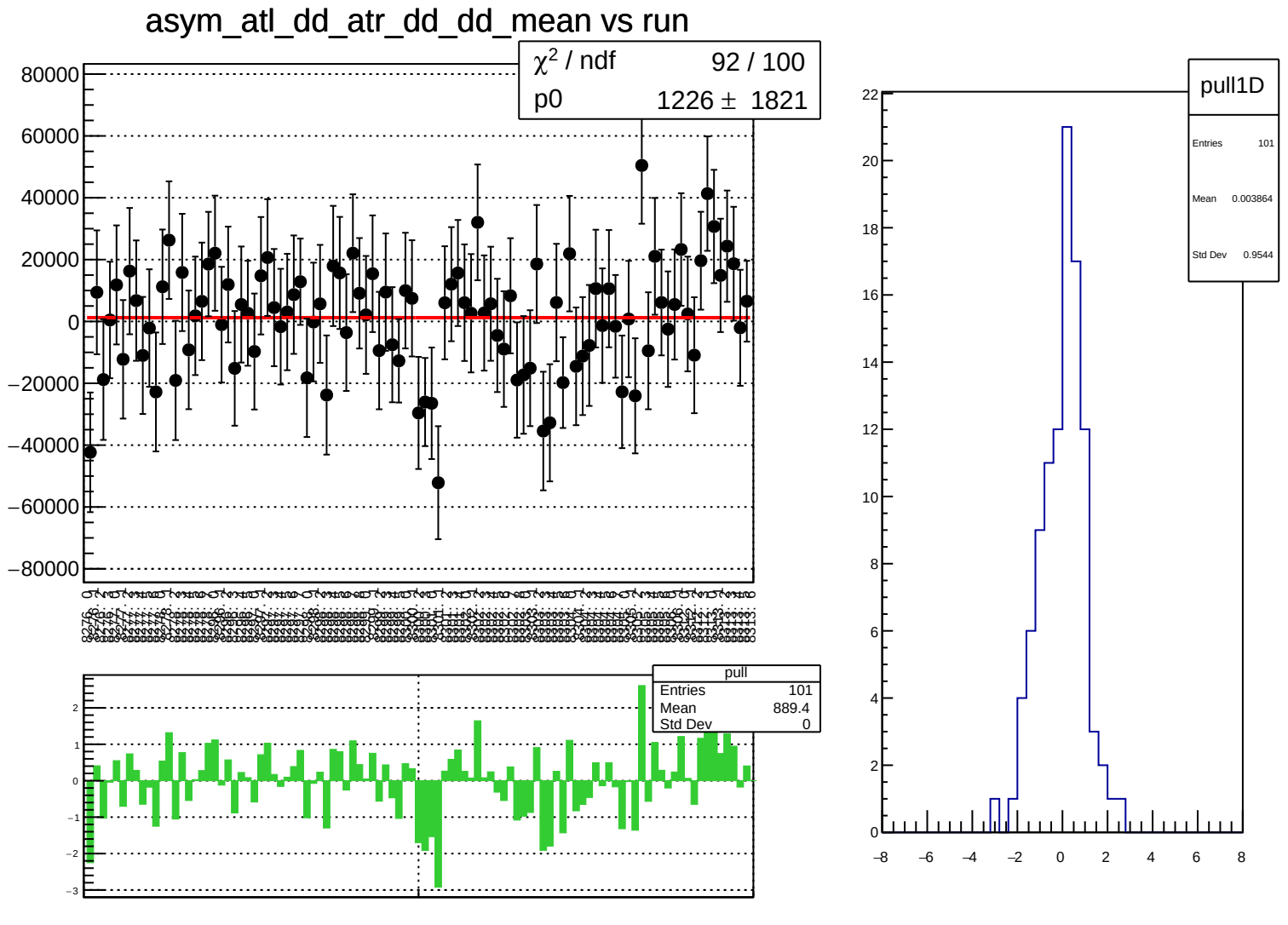

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 91.63 / 100
p0 2127 ± 1282
60000
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 1574
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.002101
Std Dev 0.9525
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

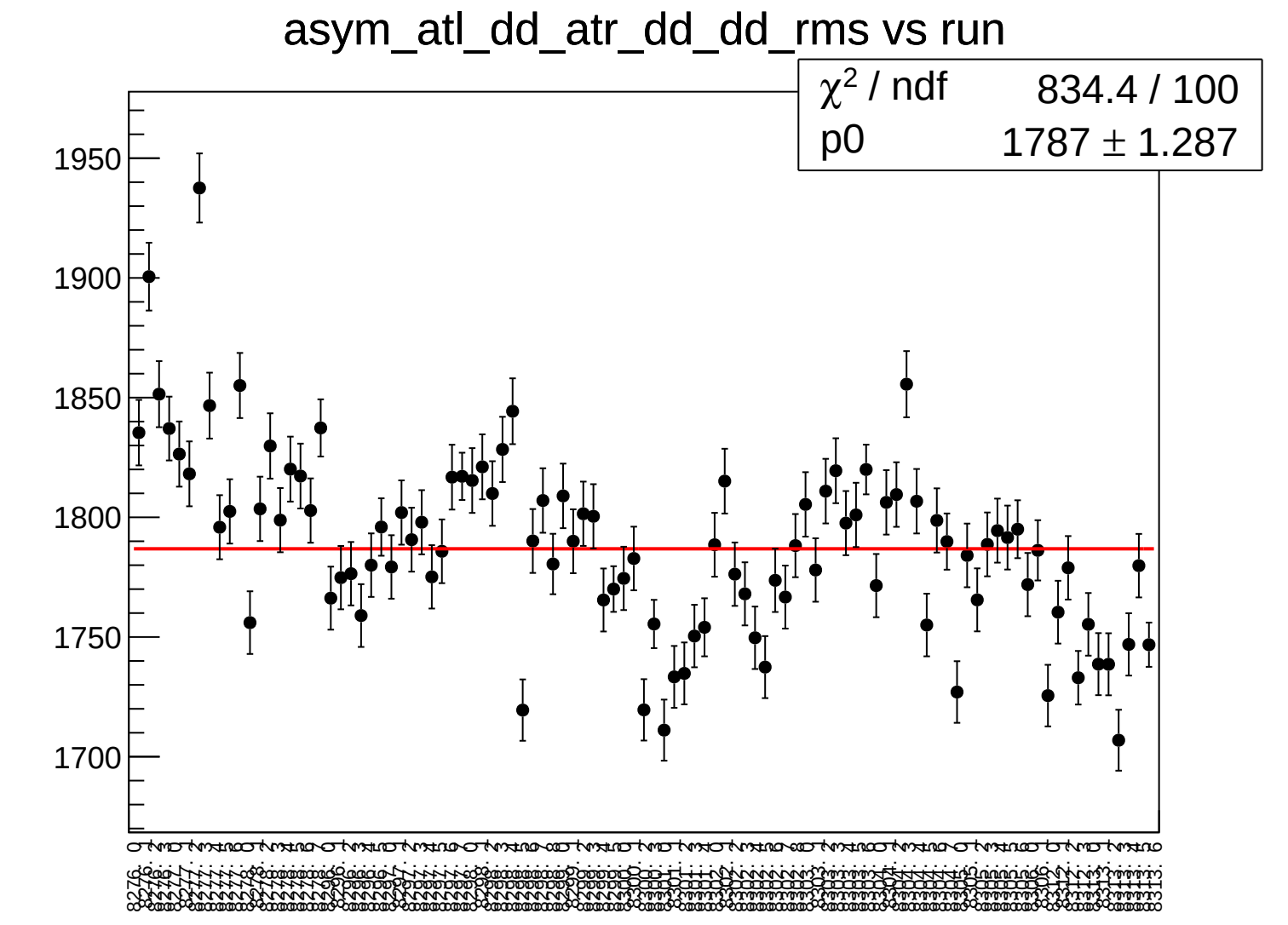

eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 224.2 / 100
p0 1259 ± 0.9067
1320
1300
1280
1260
1240
1220

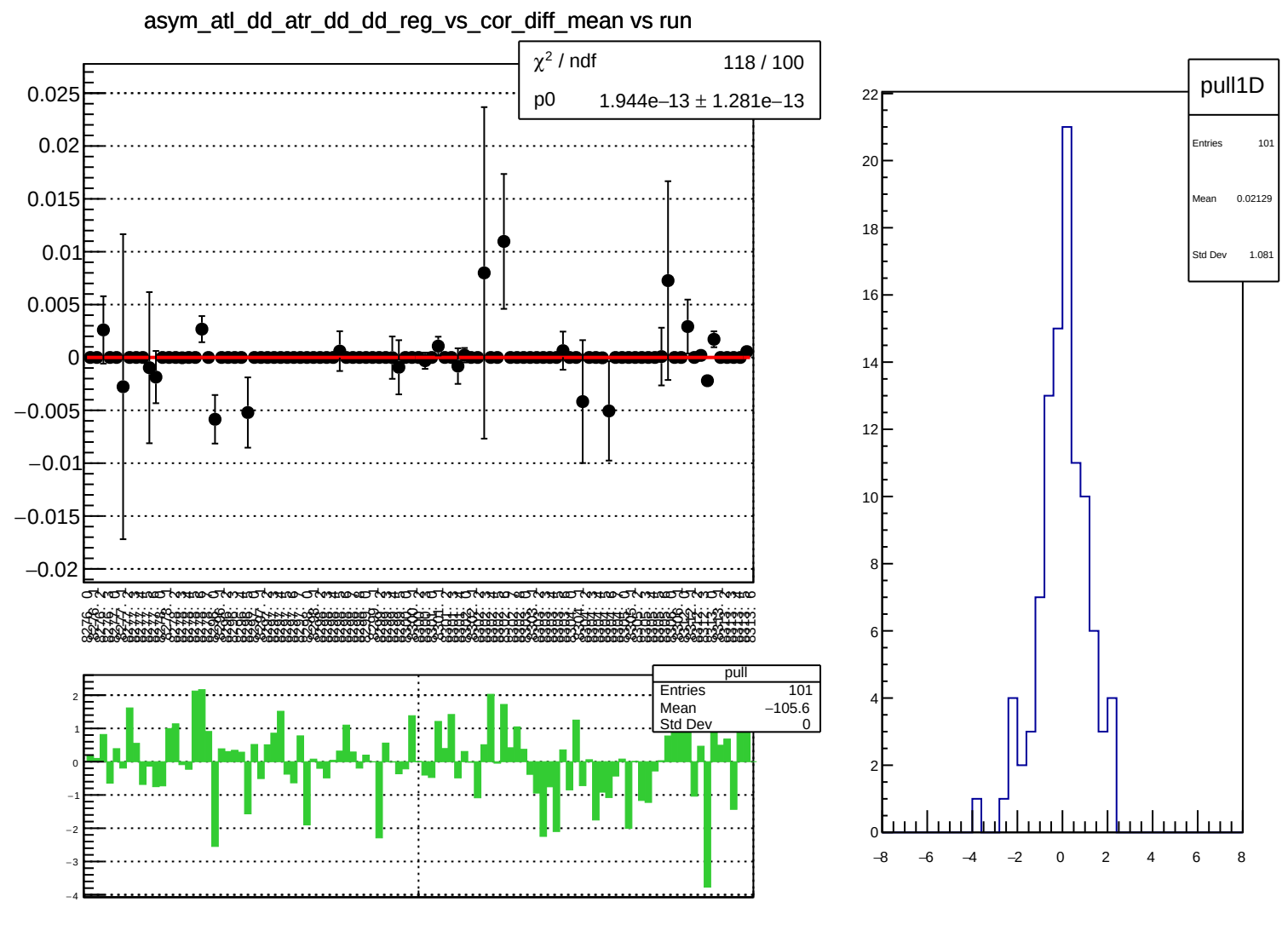

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 98.87 / 100
p0 793.2 ± 1312
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −3268
Std Dev 0
2
1
0
−1
−2
−3

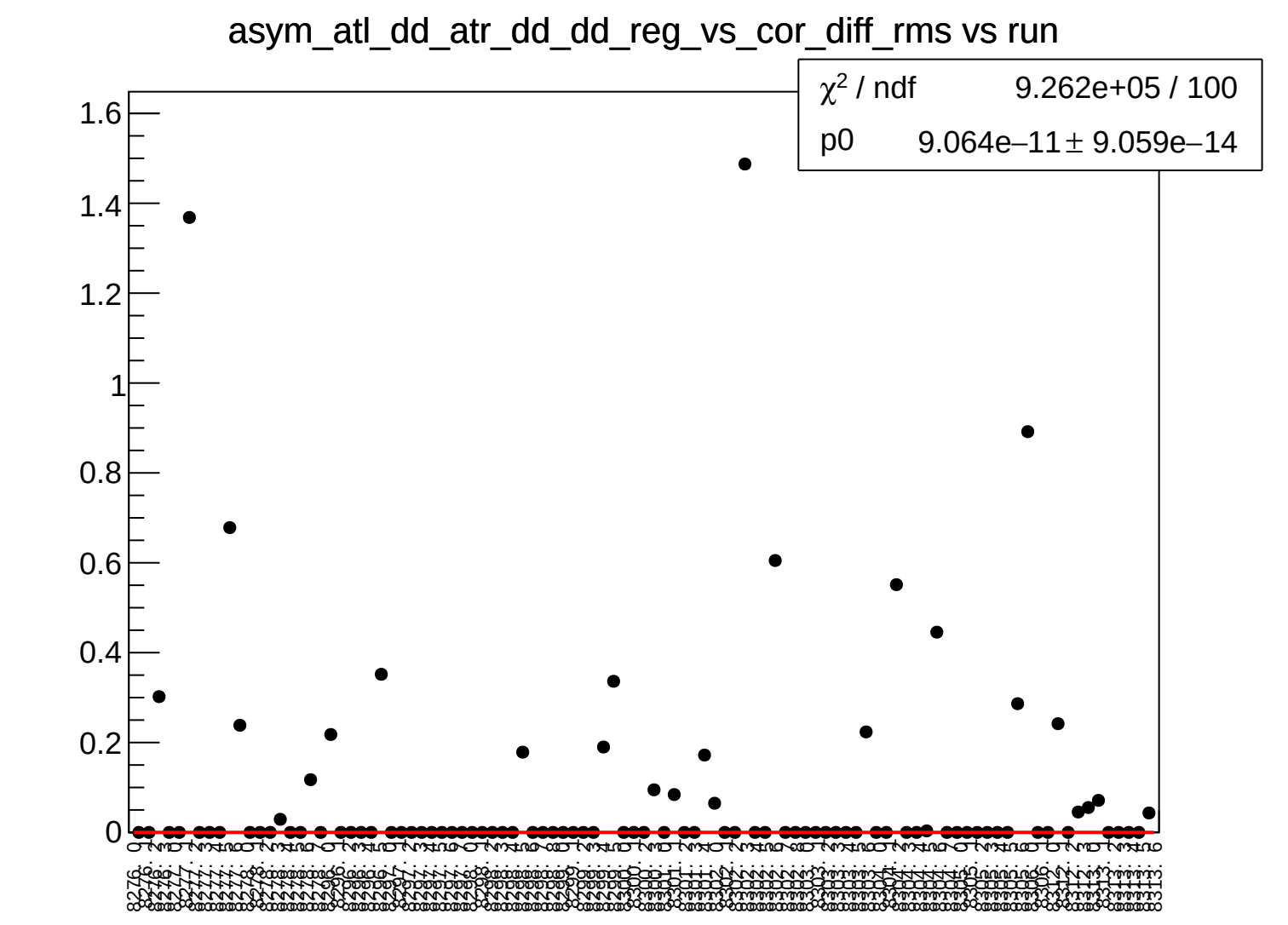

pull1D
Entries 101
Mean 0.0004647
Std Dev 0.9894
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

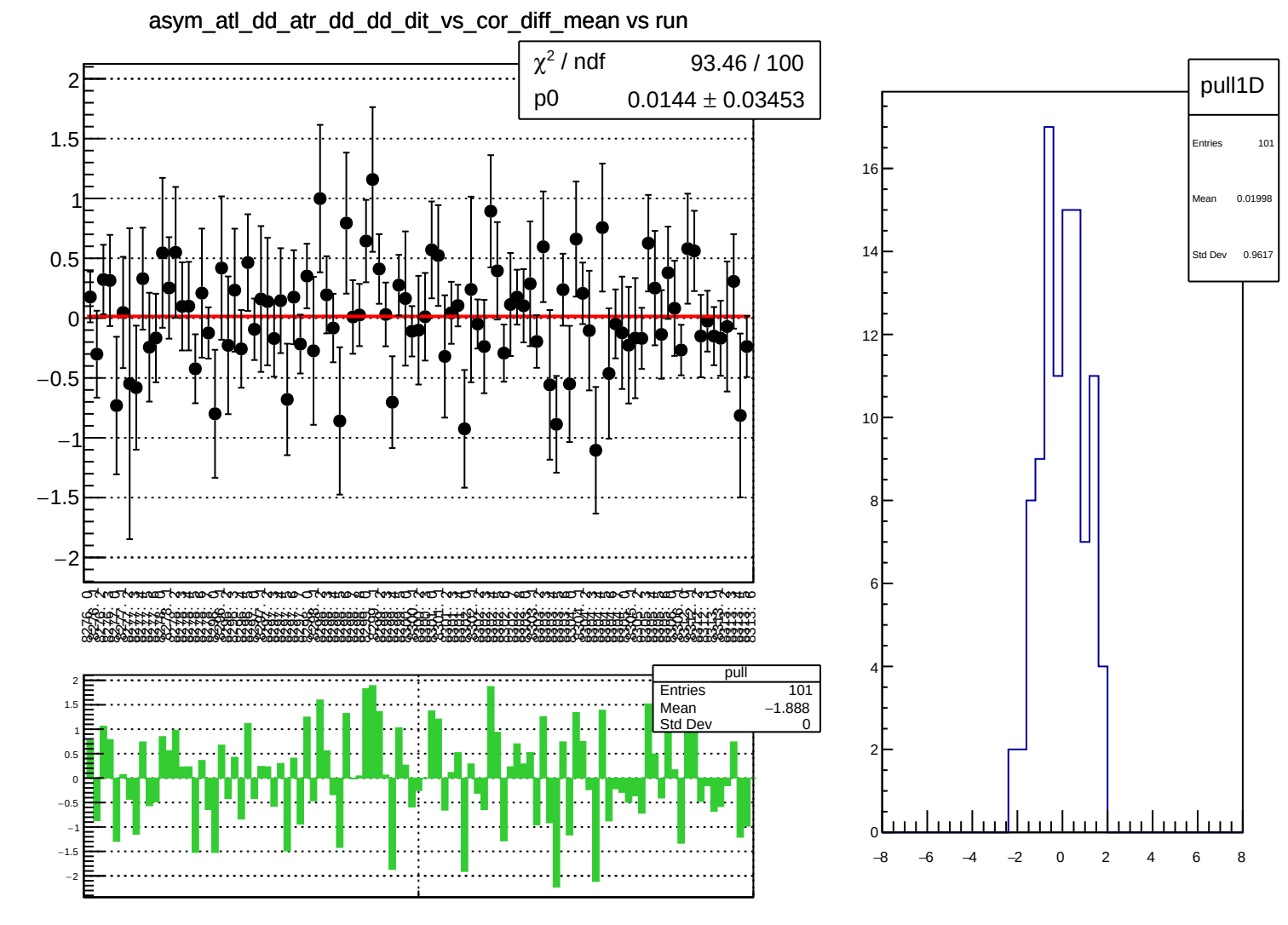

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 3135 / 100
p0 1287 ± 0.9278
1550
1500
1450
1400
1350
1300
1250
1200
1150

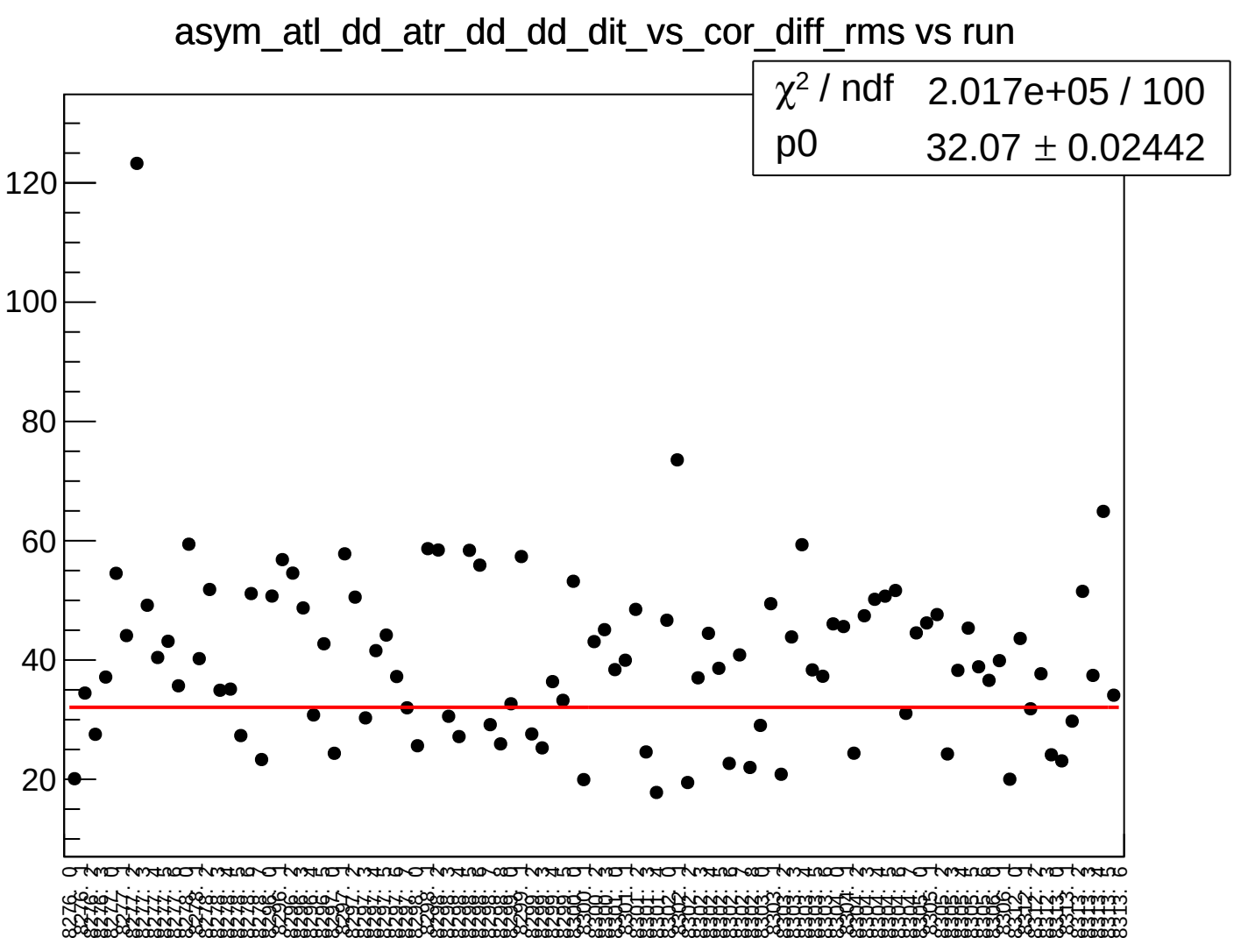

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 92 / 100
p0 1226 ± 1821
pull
Entries 101
Mean 889.4
Std Dev 0
pull1D
Entries 101
Mean 0.003864
Std Dev 0.9544

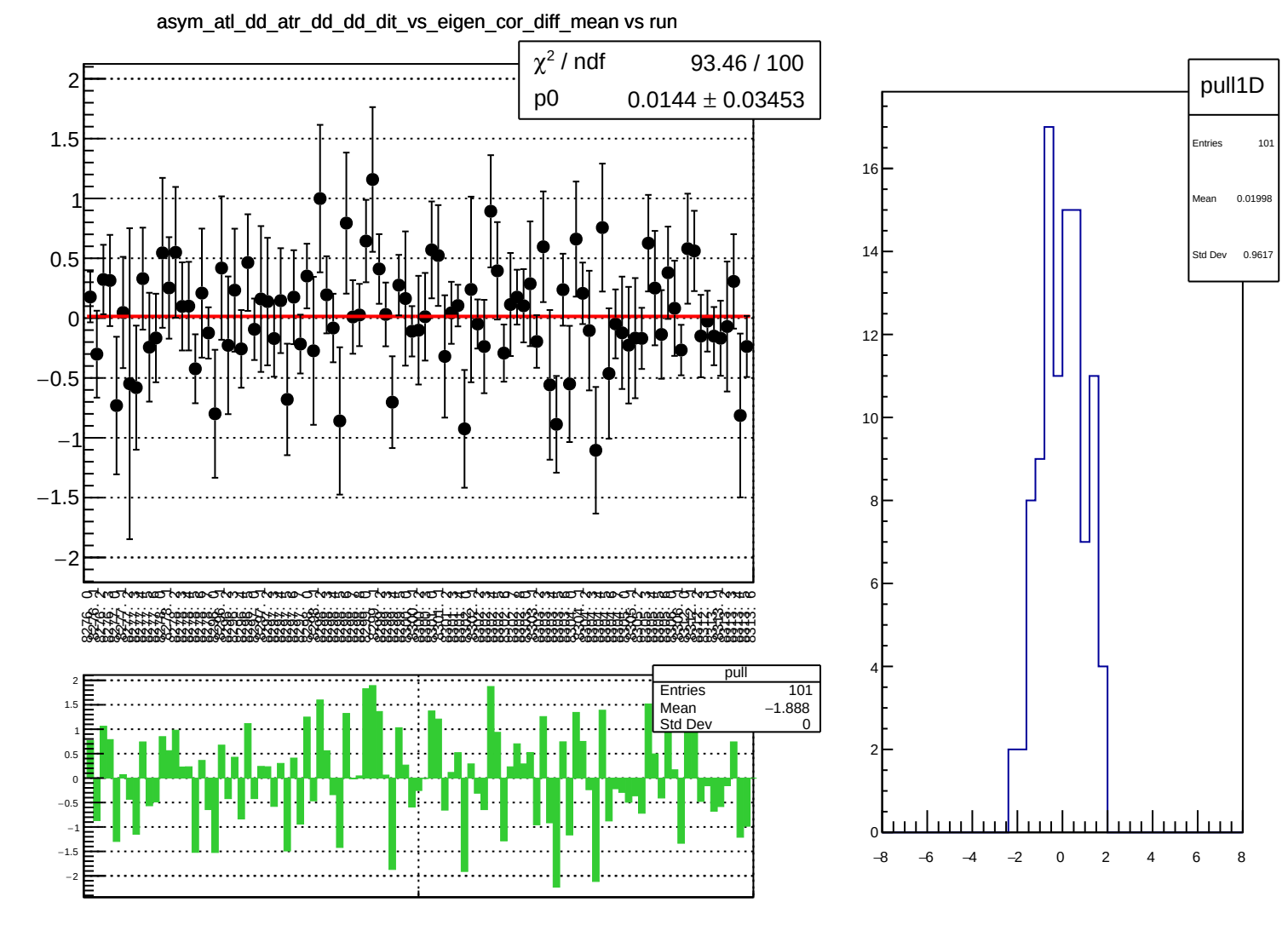

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 834.4 / 100
p0 1787 ± 1.287
1950
1900
1850
1800
1750
1700

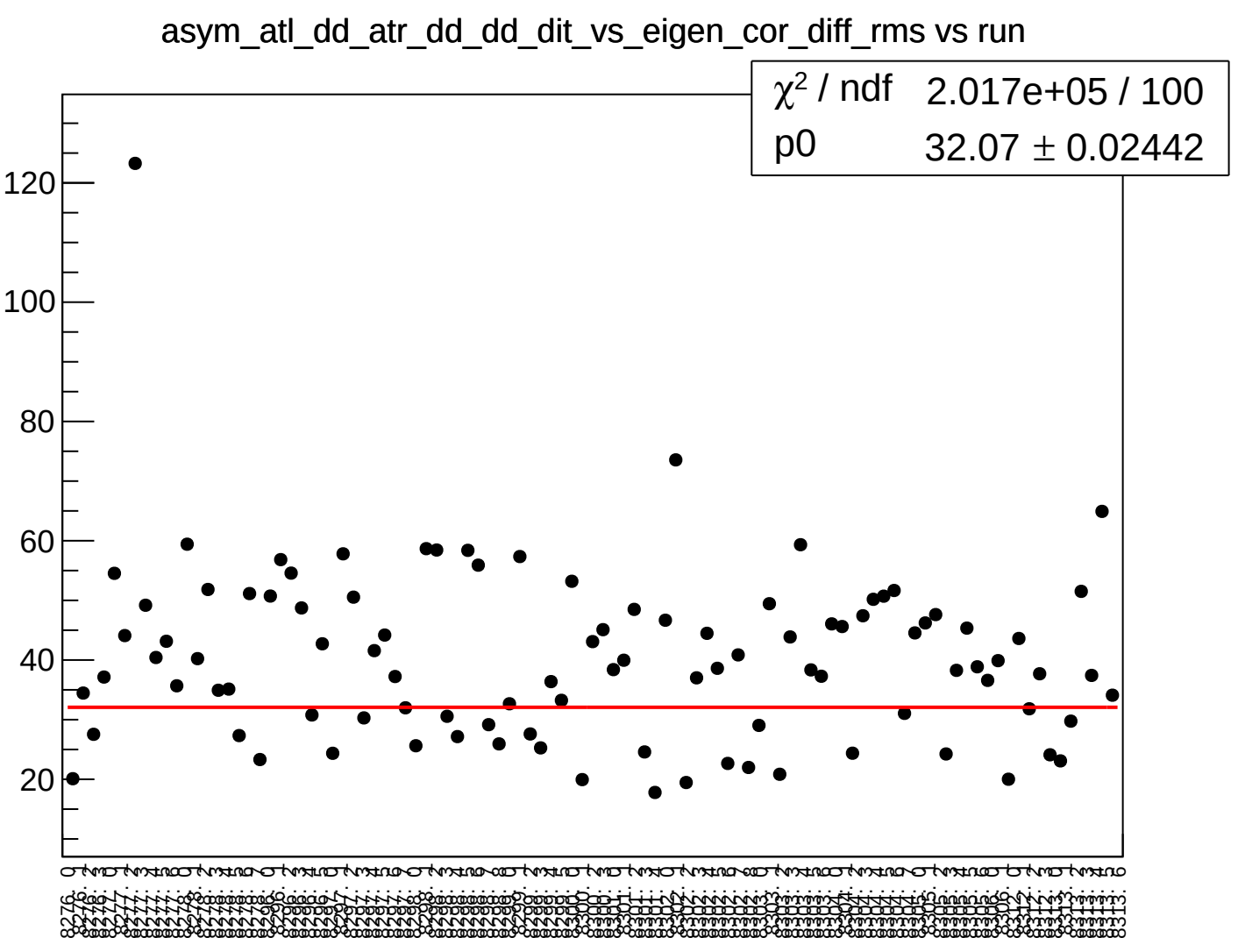

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 118 / 100
p0 1.944e−13 ± 1.281e−13
pull
Entries 101
Mean −105.6
Std Dev 0
pull1D
Entries 101
Mean 0.02129
Std Dev 1.081

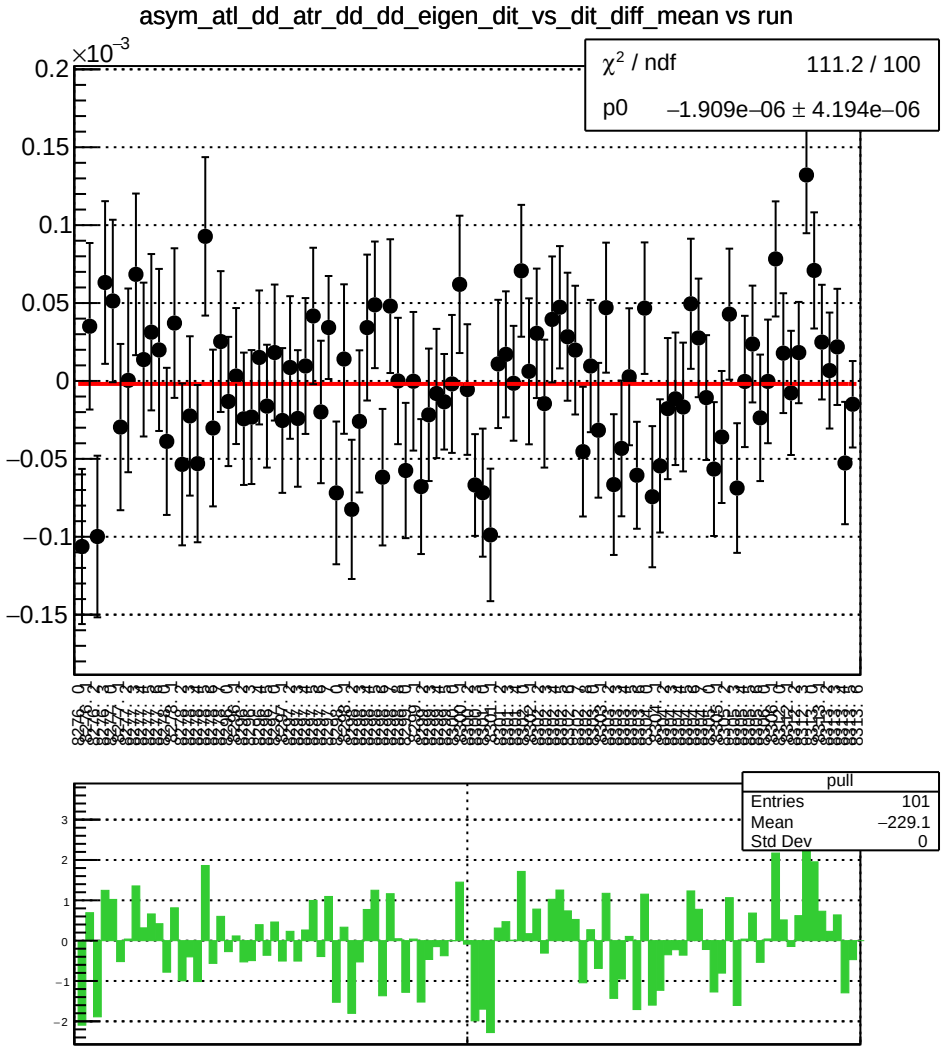

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.262e+05 / 100
p0 9.064e−11 ± 9.059e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

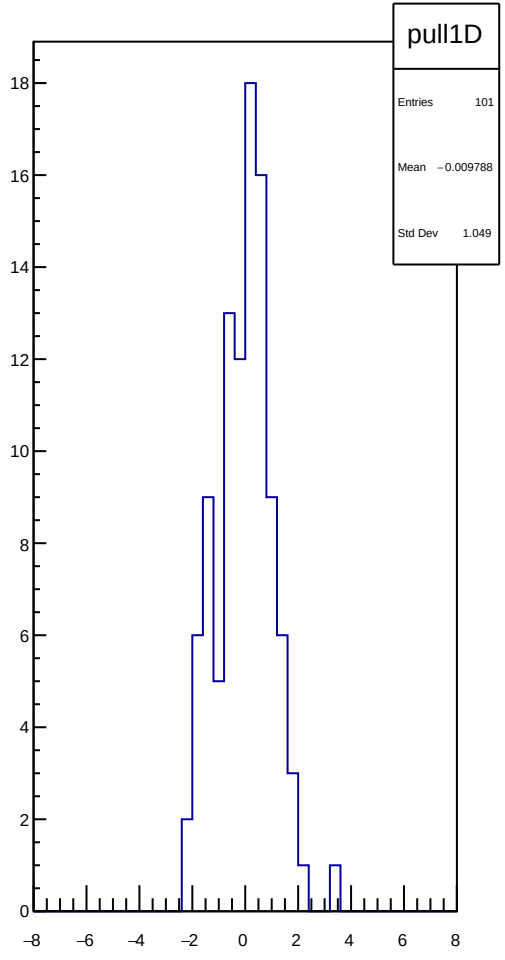

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 93.46 / 100
p0 0.0144 ± 0.03453
pull
Entries 101
Mean −1.888
Std Dev 0
pull1D
Entries 101
Mean 0.01998
Std Dev 0.9617

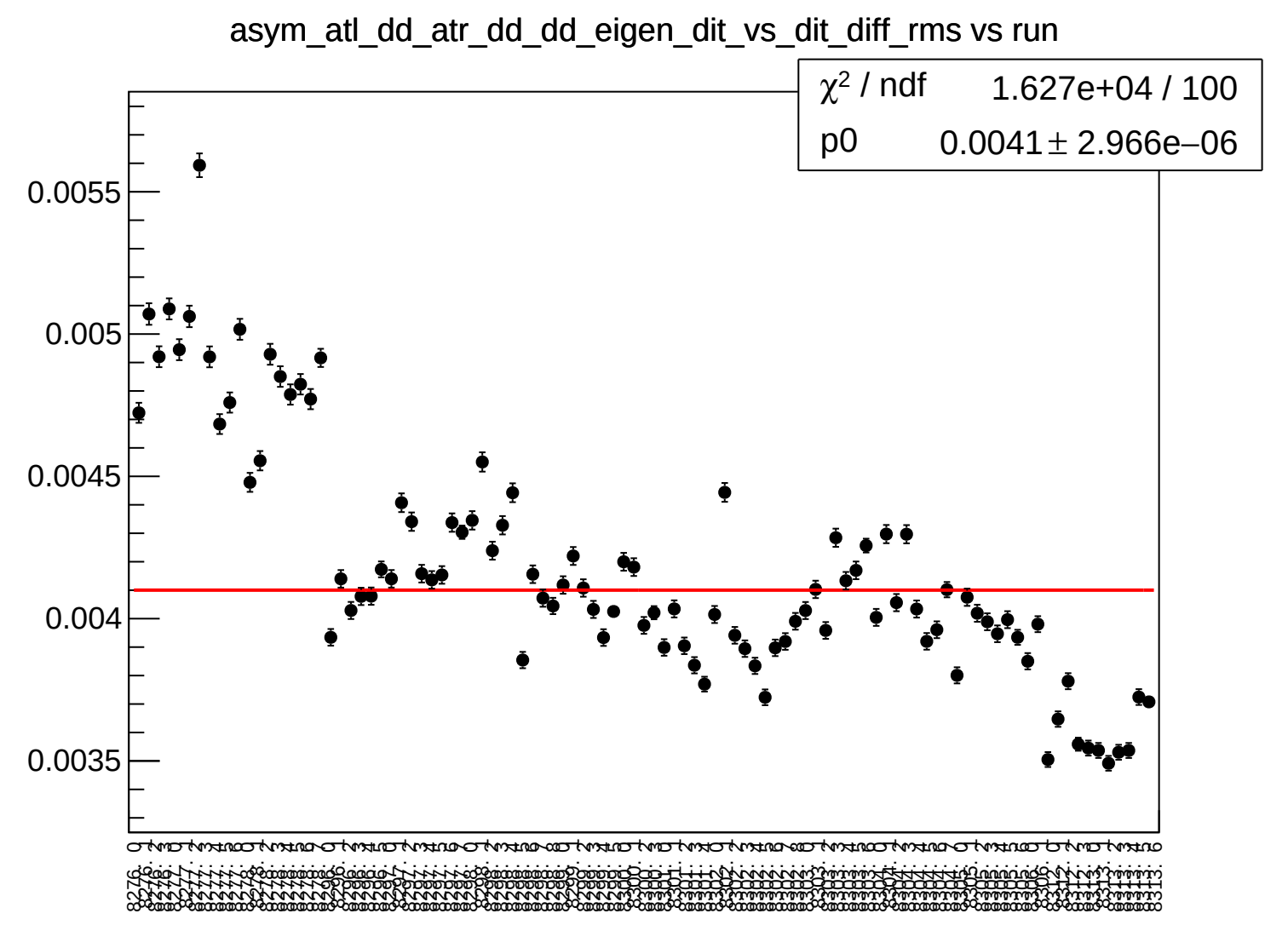

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.017e+05 / 100
p0 32.07 ± 0.02442
120
100
80
60
40
20

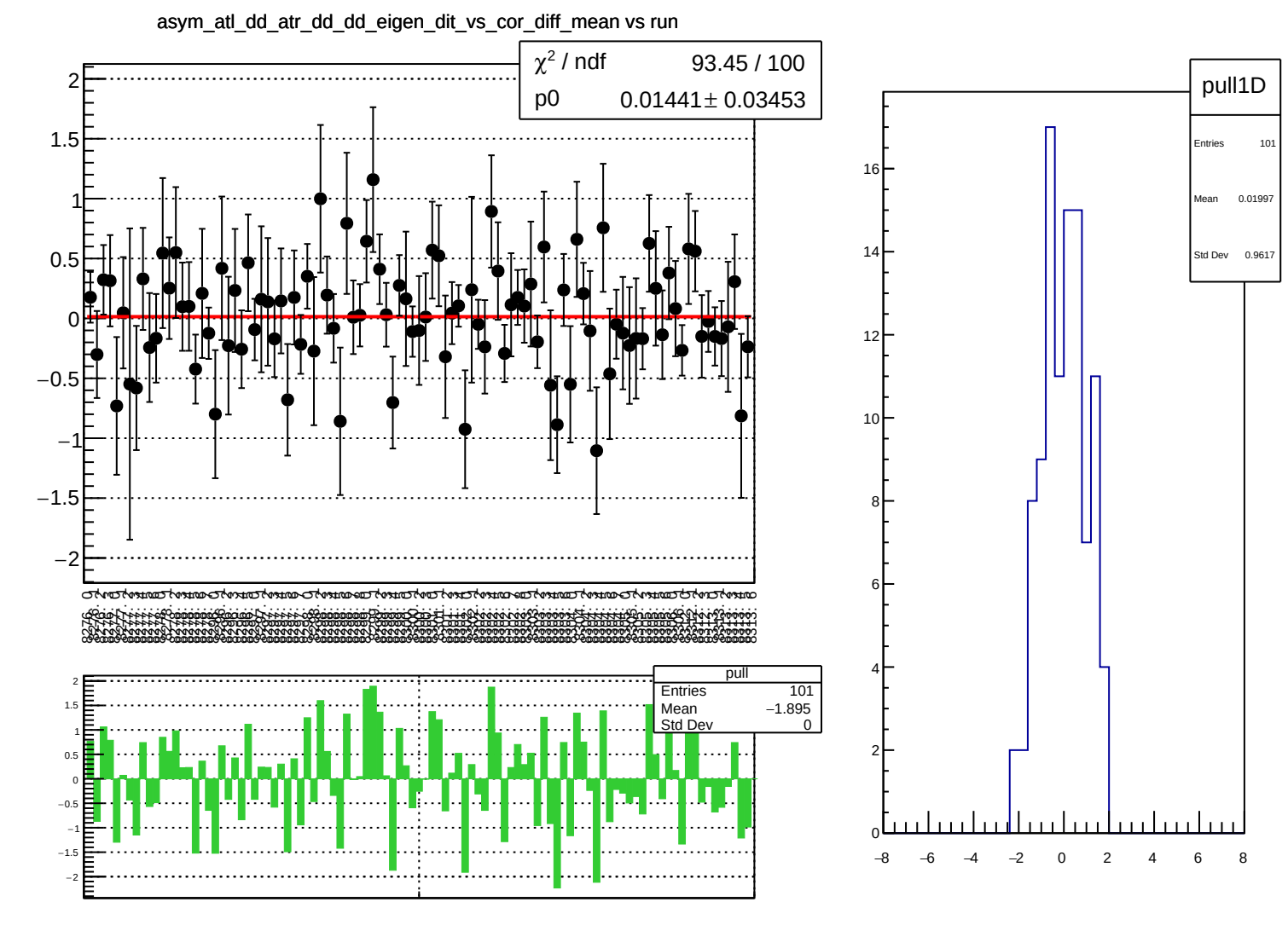

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.46 / 100
p0 0.0144 ± 0.03453
pull
Entries 101
Mean −1.888
Std Dev 0
pull1D
Entries 101
Mean 0.01998
Std Dev 0.9617

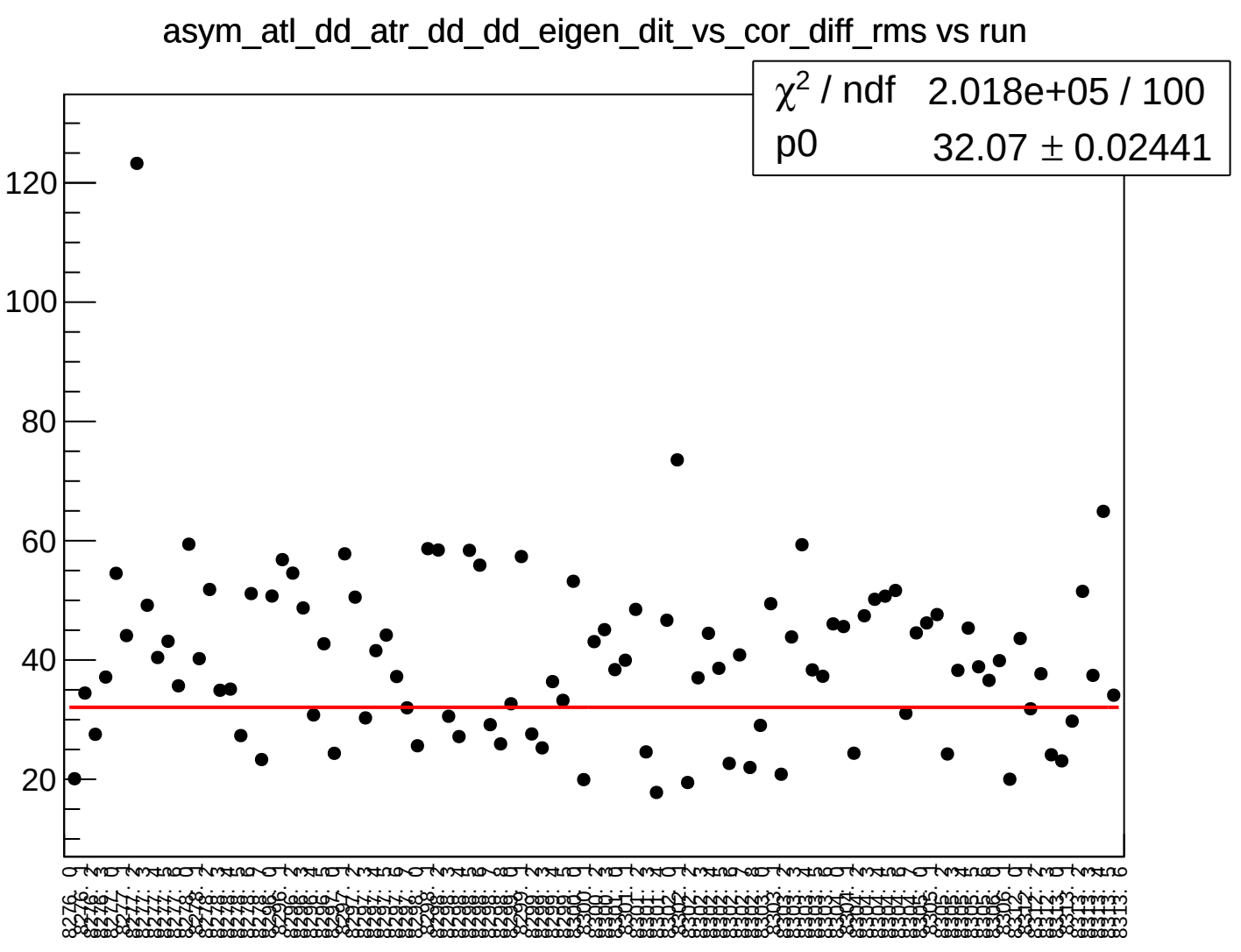

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.017e+05 / 100
p0 32.07 ± 0.02442
120
100
80
60
40
20

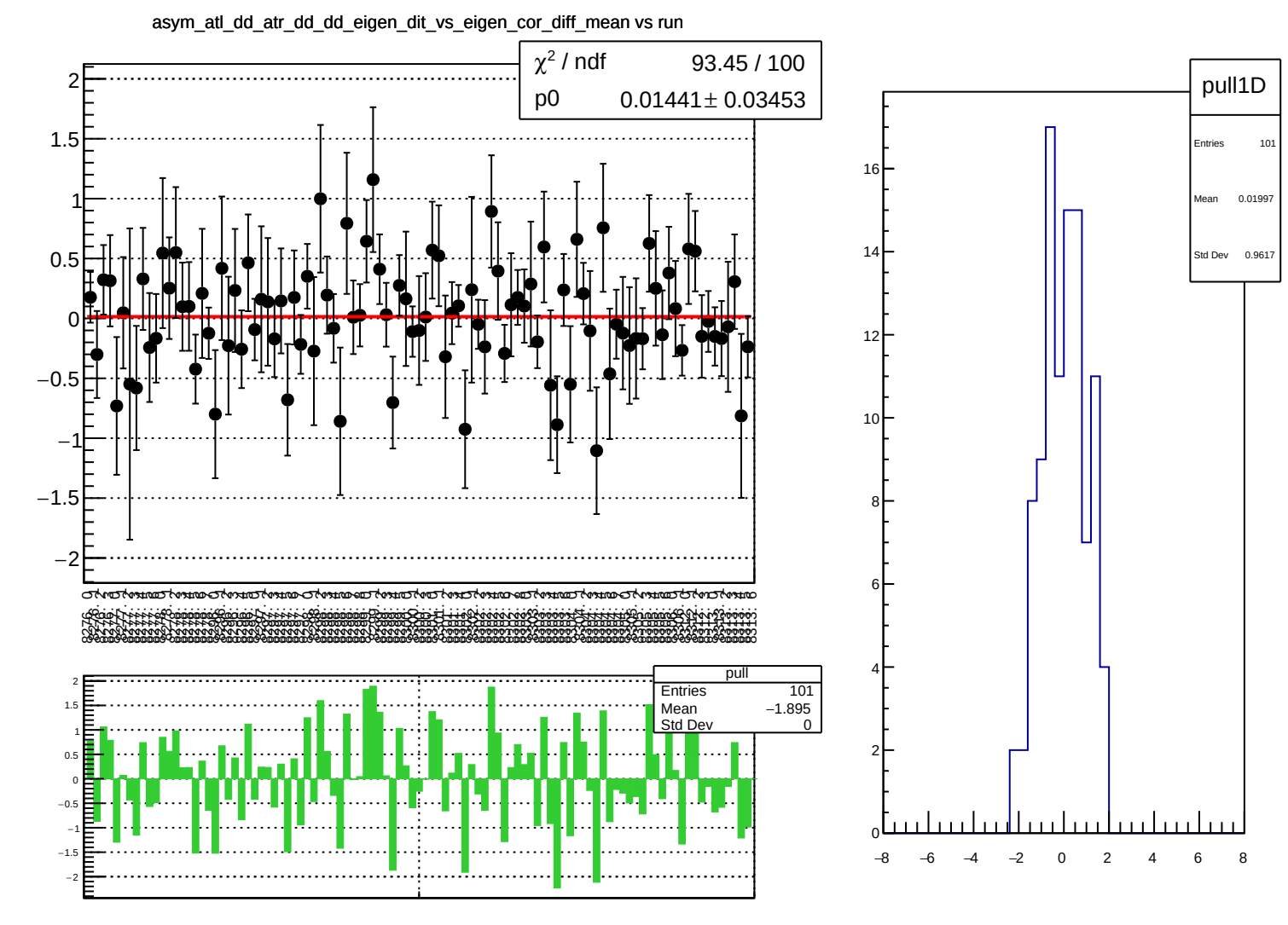

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 111.2 / 100
p0 −1.909e−06 ± 4.194e−06
pull
Entries 101
Mean −229.1
Std Dev 0

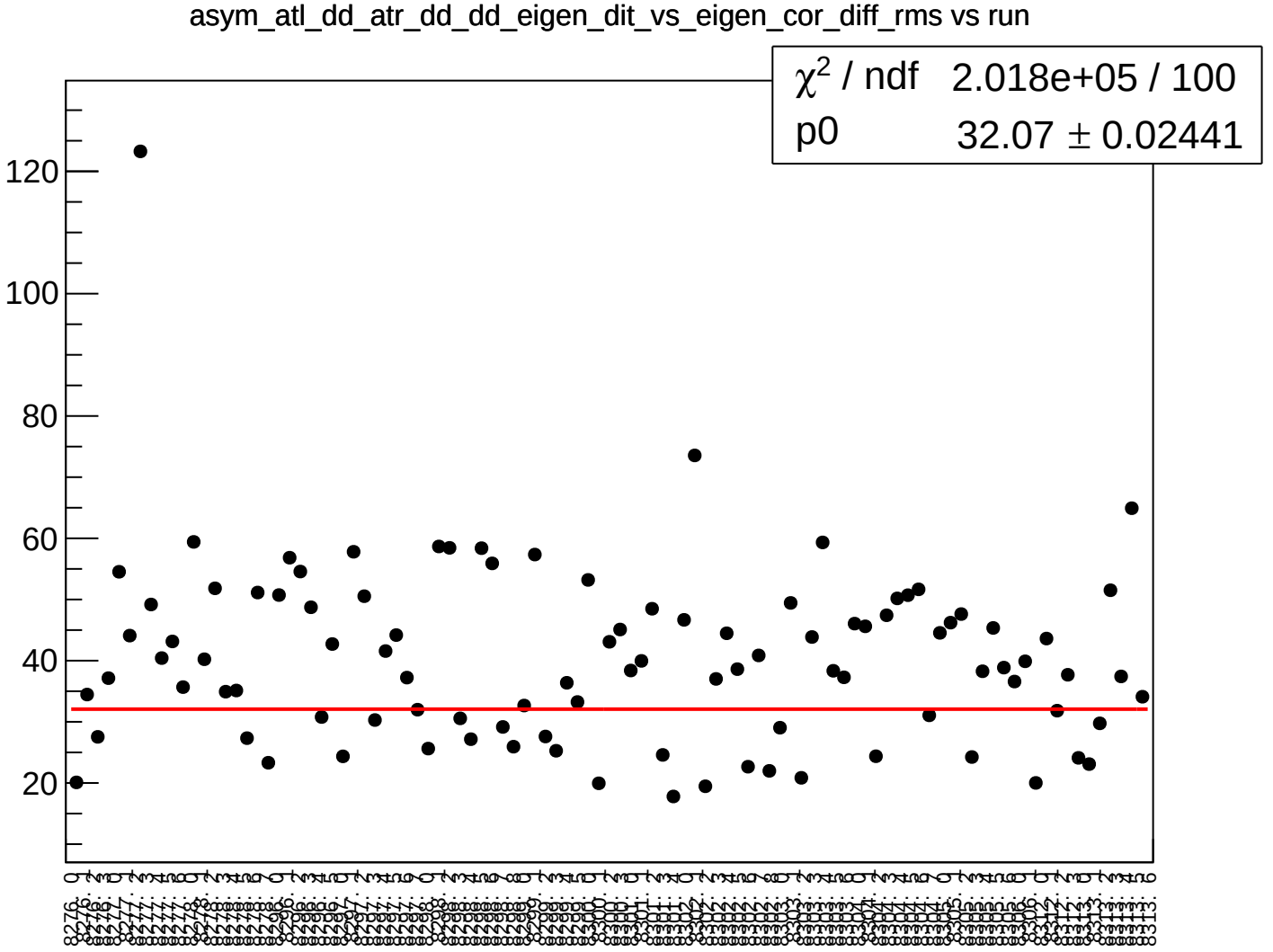

pull1D
Entries 101
Mean −0.009788
Std Dev 1.049

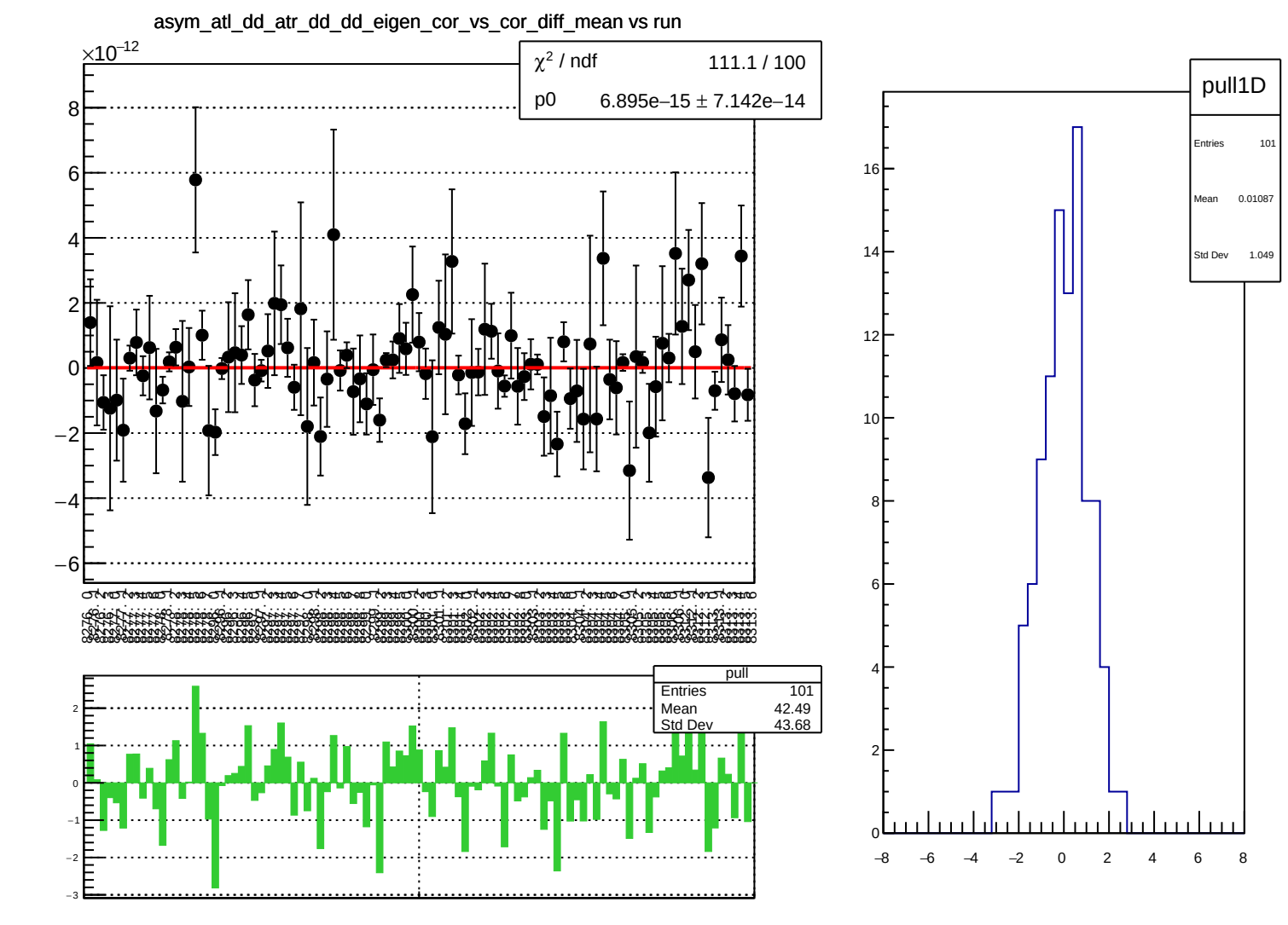

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.627e+04 / 100
p0 0.0041 ± 2.966e−06
0.0055
0.005
0.0045
0.004
0.0035

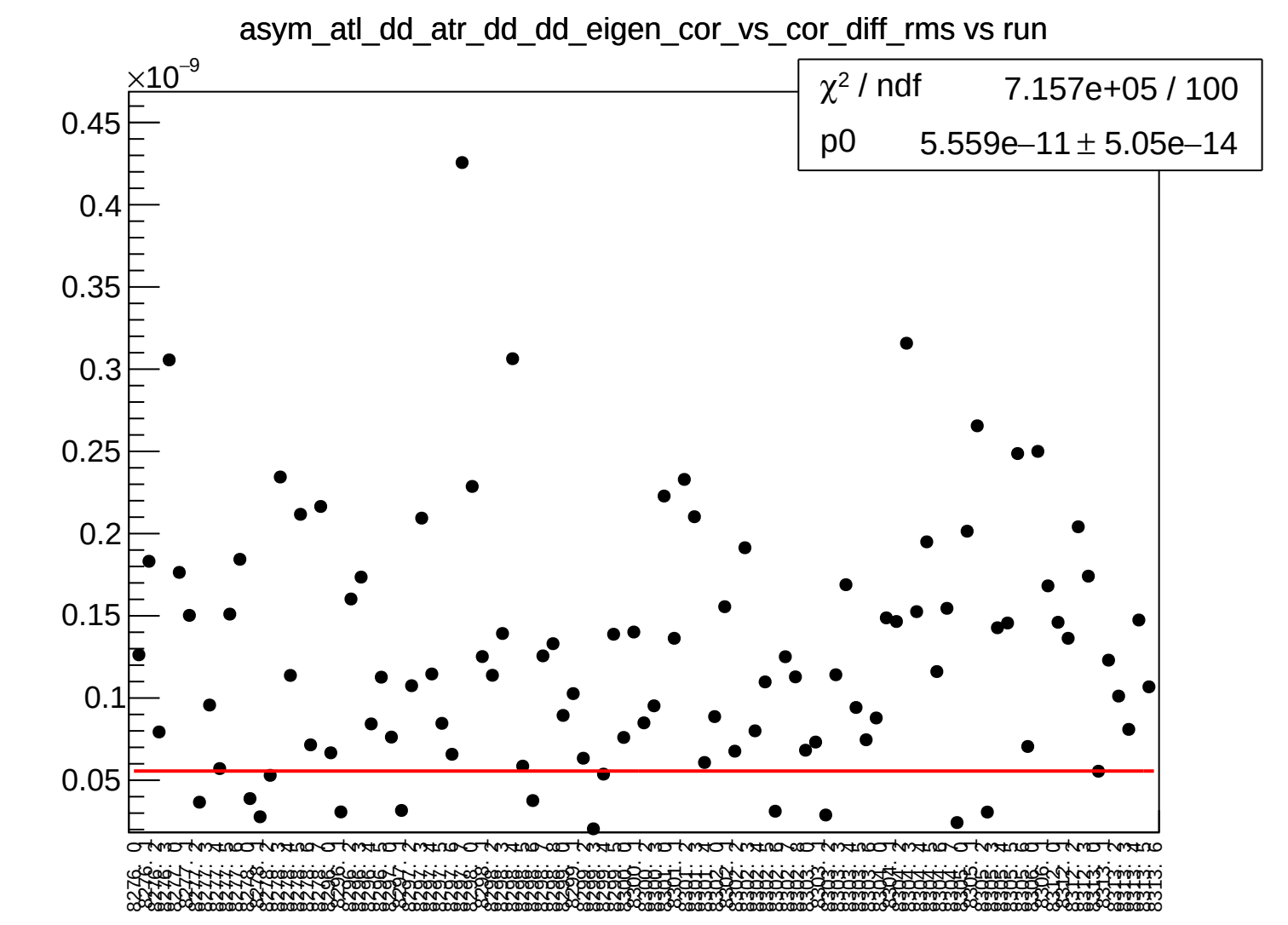

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.45 / 100
p0 0.01441 ± 0.03453
pull
Entries 101
Mean −1.895
Std Dev 0
pull1D
Entries 101
Mean 0.01997
Std Dev 0.9617

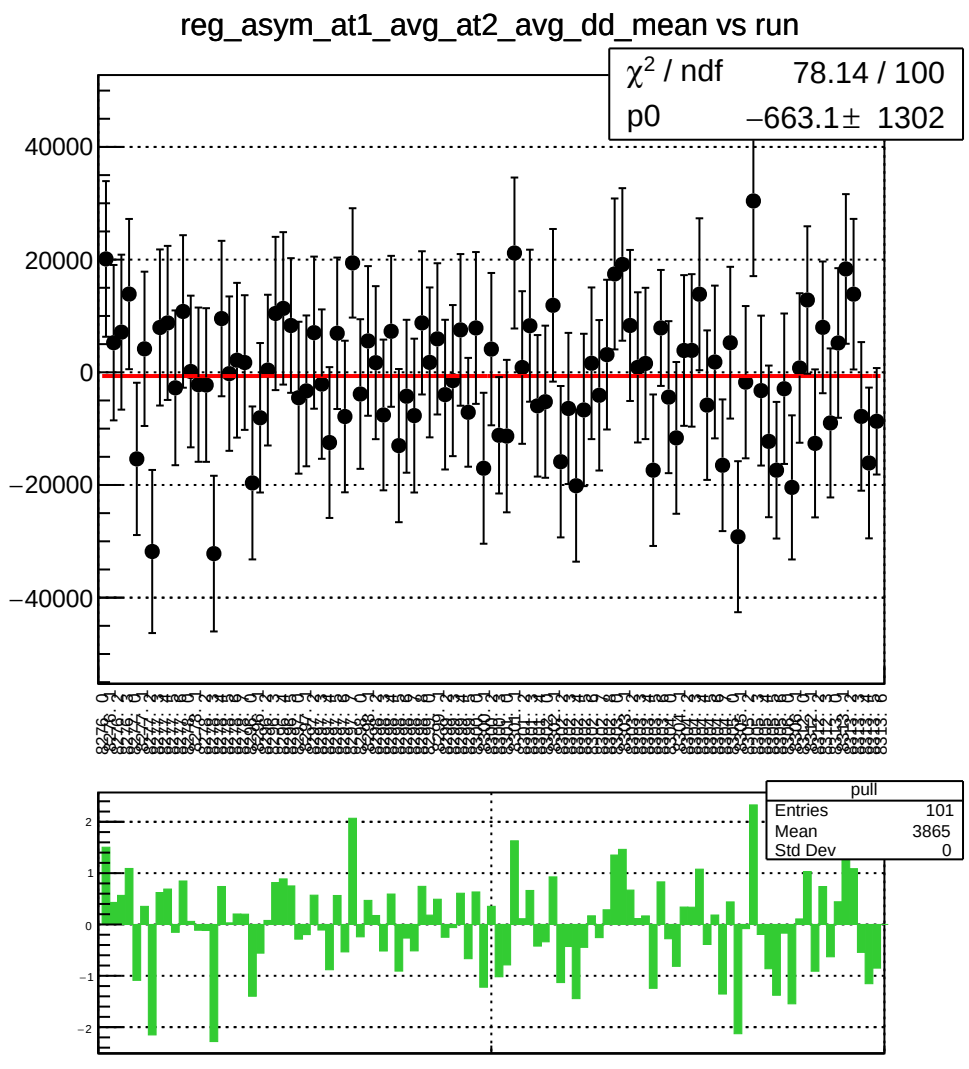

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.018e+05 / 100
p0 32.07 ± 0.02441
120
100
80
60
40
20

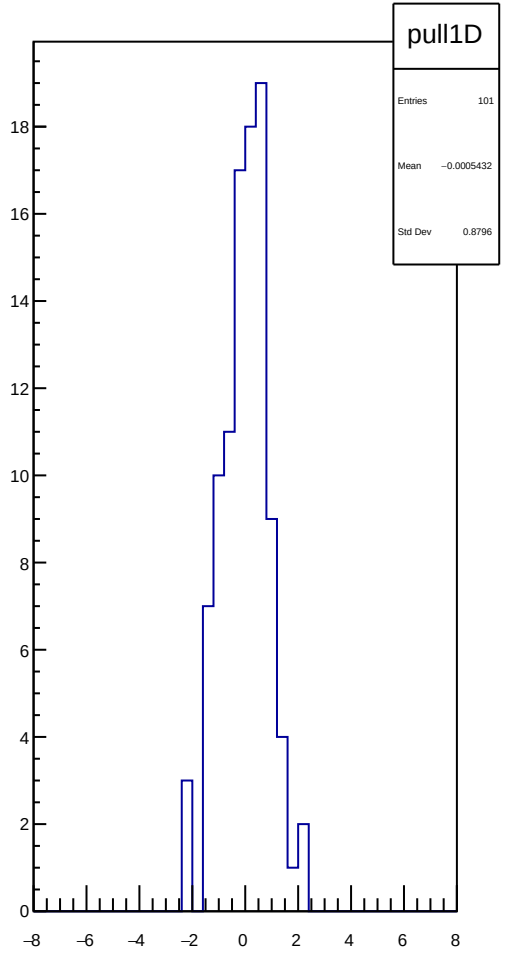

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.45 / 100
p0 0.01441 ± 0.03453
pull
Entries 101
Mean −1.895
Std Dev 0
pull1D
Entries 101
Mean 0.01997
Std Dev 0.9617

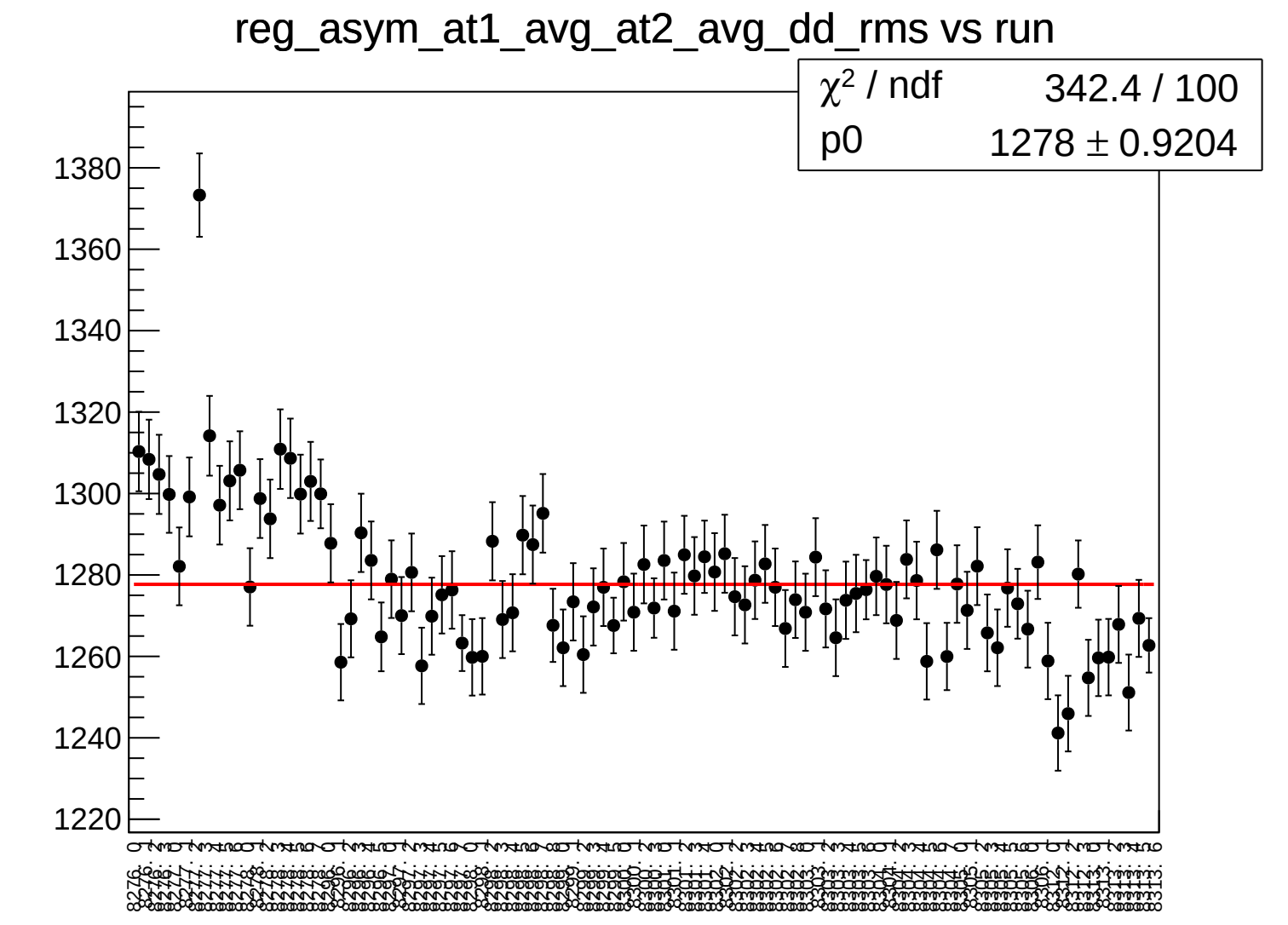

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.018e+05 / 100
p0 32.07 ± 0.02441
120
100
80
60
40
20

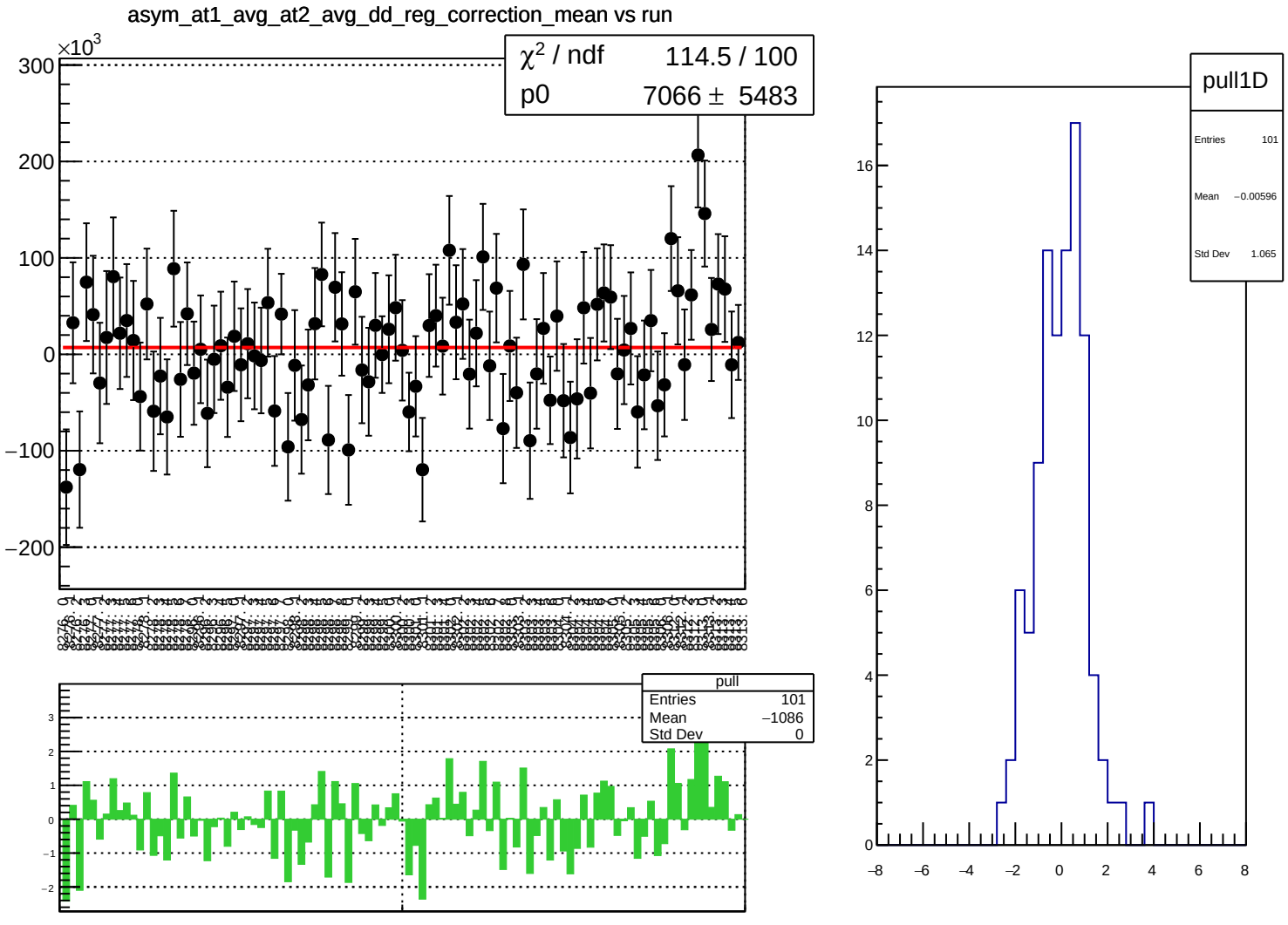

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 111.1 / 100
p0 6.895e−15 ± 7.142e−14
pull
Entries 101
Mean 42.49
Std Dev 43.68
pull1D
Entries 101
Mean 0.01087
Std Dev 1.049

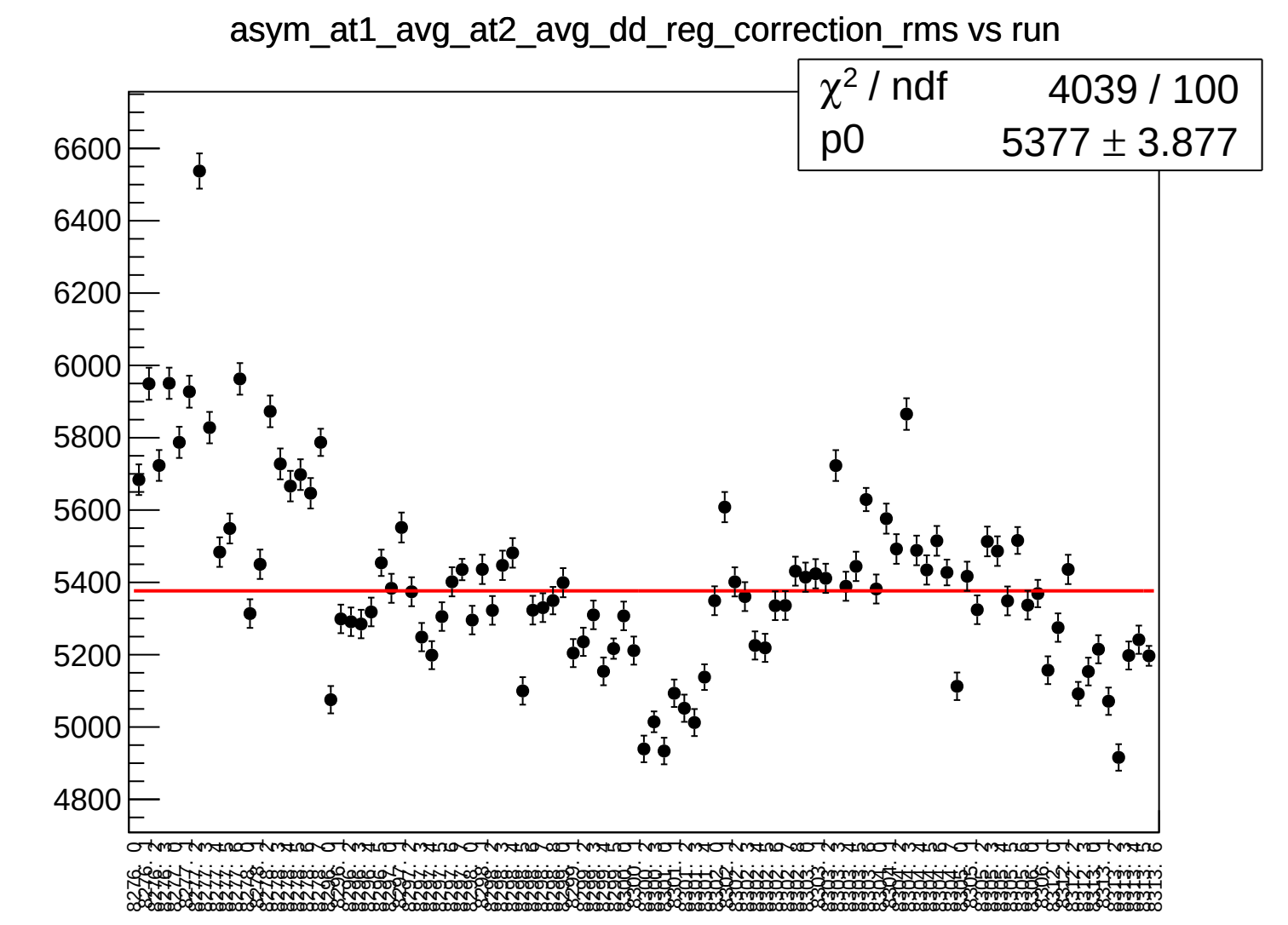

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.157e+05 / 100
p0 5.559e−11 ± 5.05e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

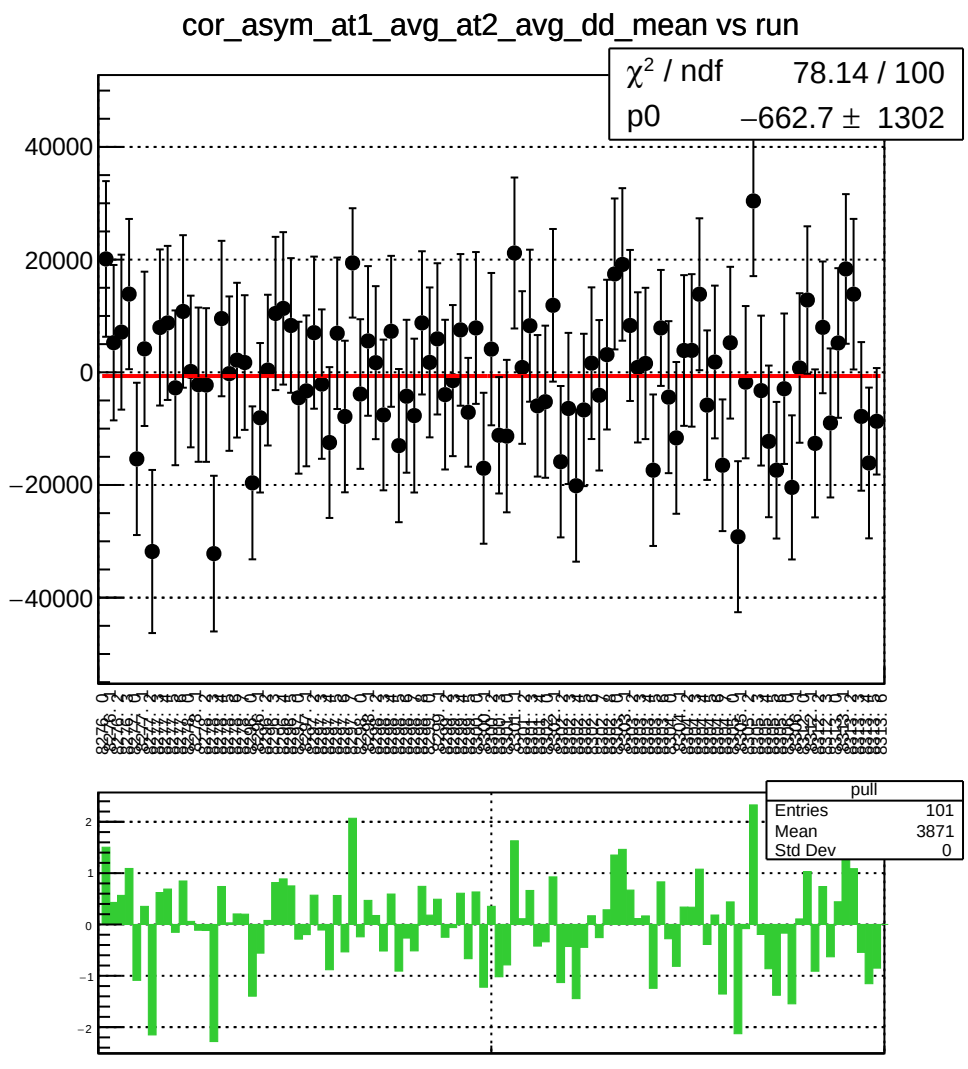

reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 78.14 / 100
p0 −663.1± 1302
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 3865
Std Dev 0
2
1
0
−1
−2

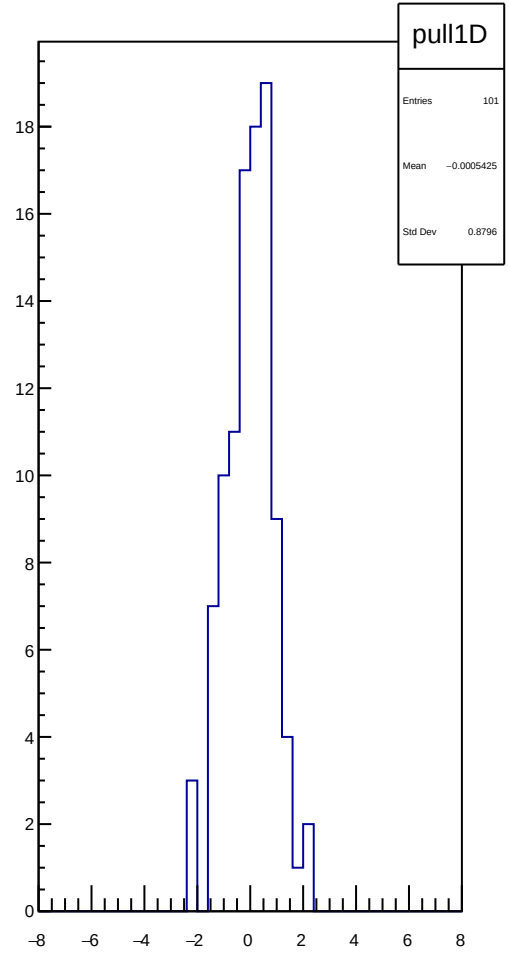

pull1D
Entries 101
Mean −0.0005432
Std Dev 0.8796
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

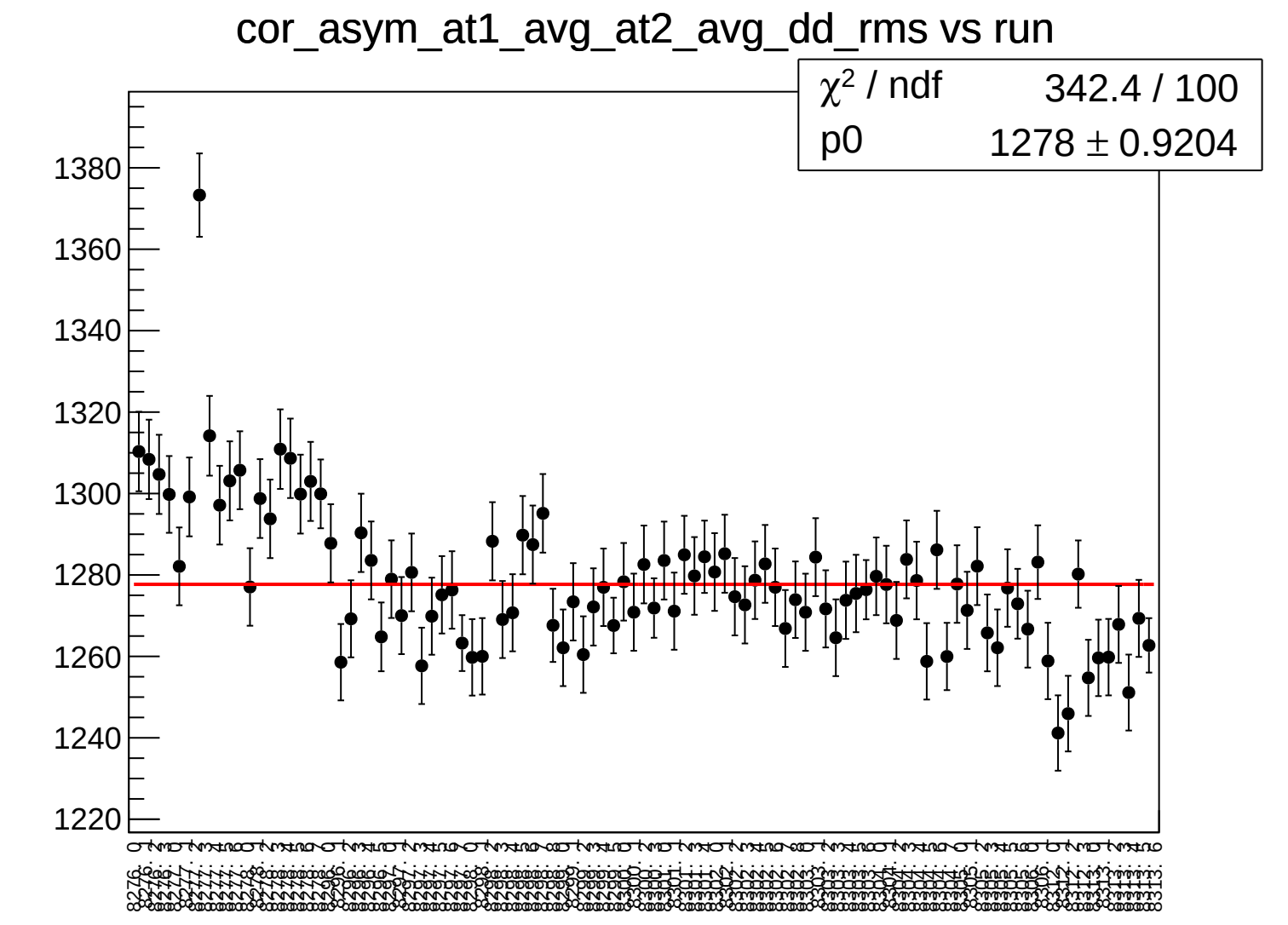

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 342.4 / 100
p0 1278 ± 0.9204
1380
1360
1340
1320
1300
1280
1260
1240
1220

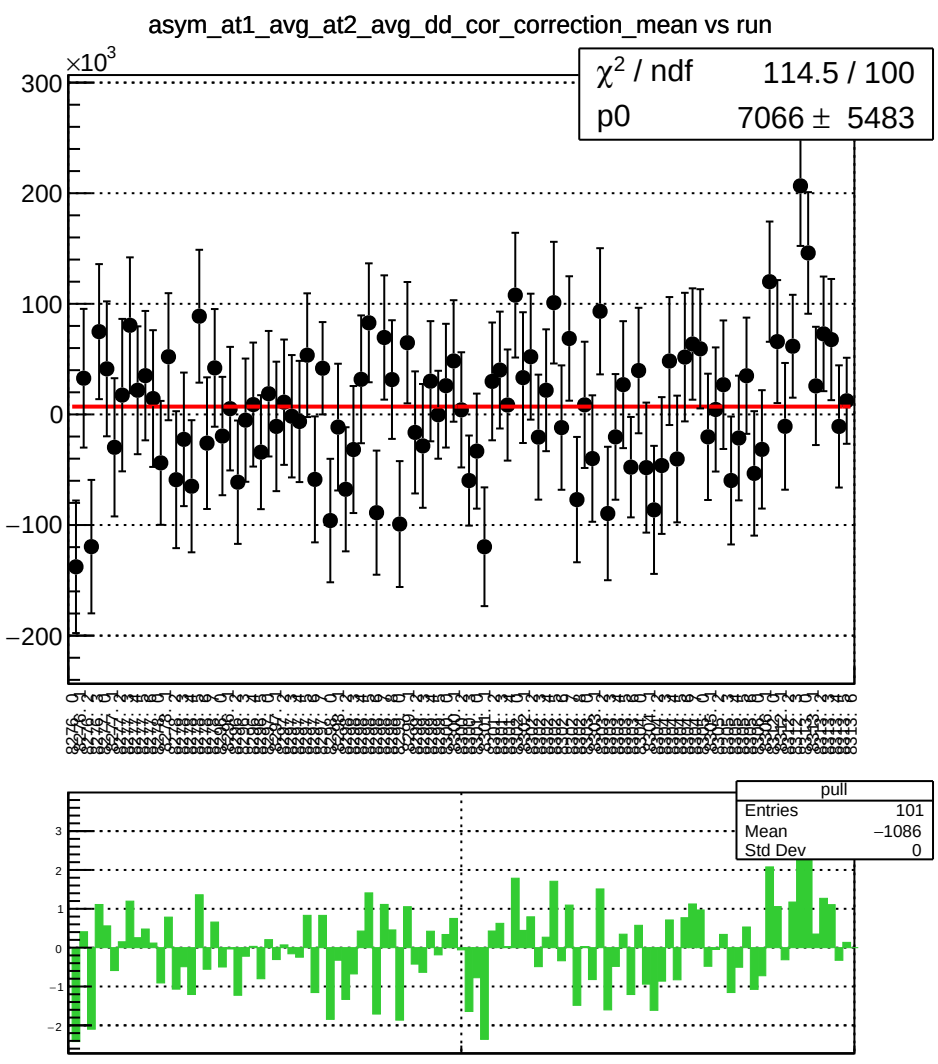

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
χ² / ndf 114.5 / 100
p0 7066 ± 5483
×10³
300
200
100
0
−100
−200
pull
Entries 101
Mean −1086
Std Dev 0
pull1D
Entries 101
Mean −0.00596
Std Dev 1.065
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

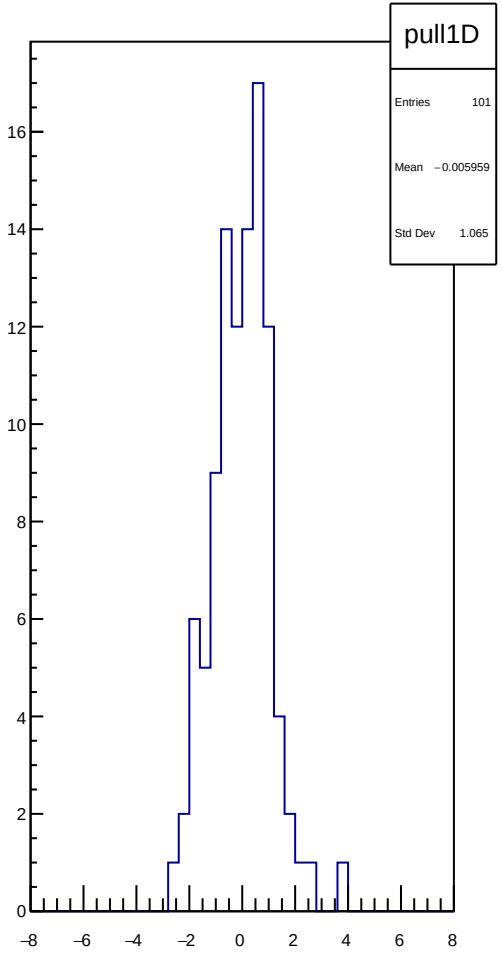

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ² / ndf 4039 / 100
p0 5377 ± 3.877
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800

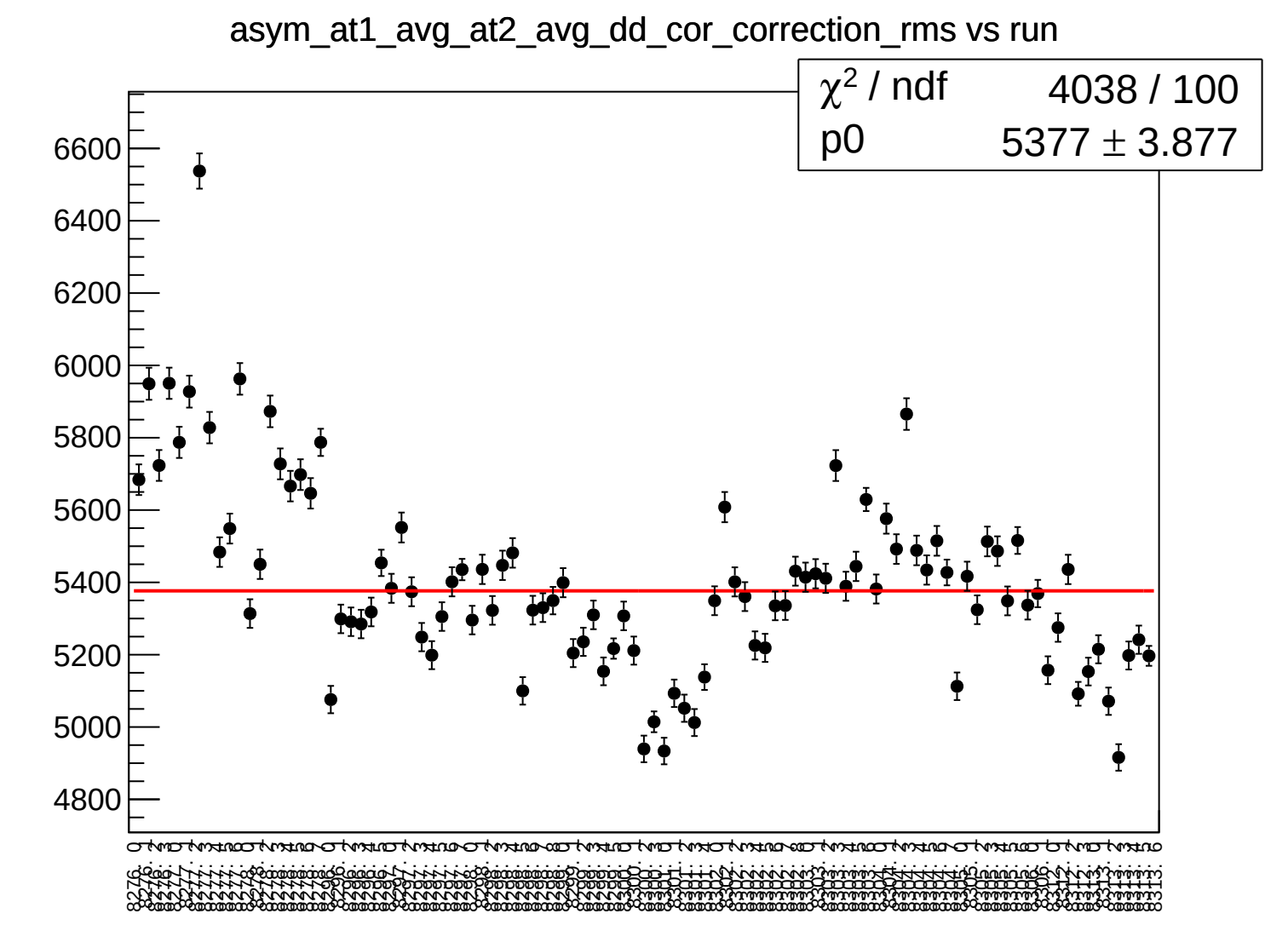

cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 78.14 / 100
p0 −662.7 ± 1302
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 3871
Std Dev 0
2
1
0
−1
−2

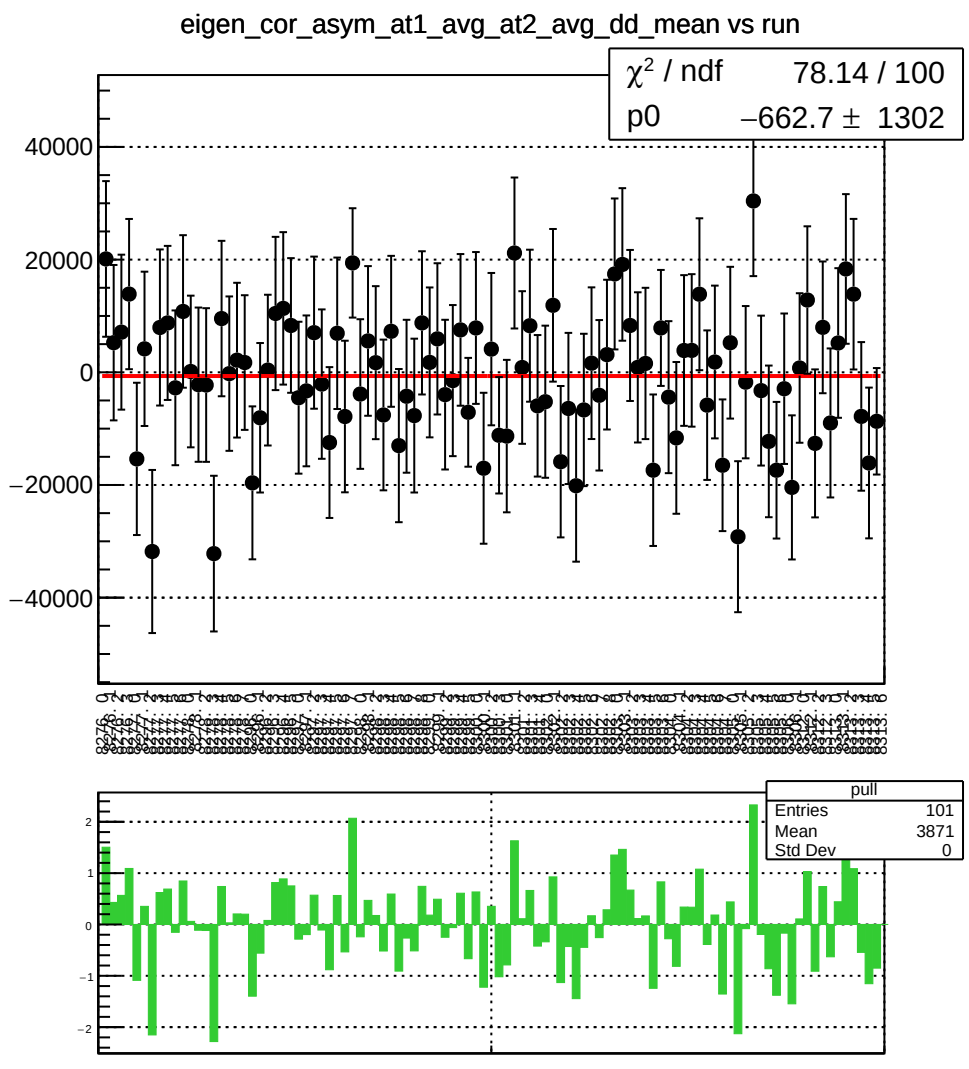

pull1D
Entries 101
Mean −0.0005425
Std Dev 0.8796
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

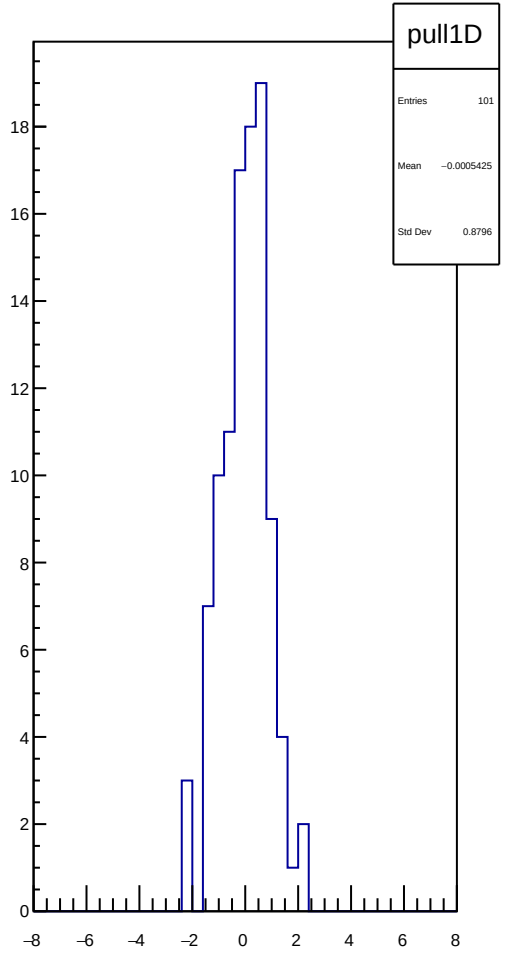

cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 342.4 / 100
p0 1278 ± 0.9204
1380
1360
1340
1320
1300
1280
1260
1240
1220

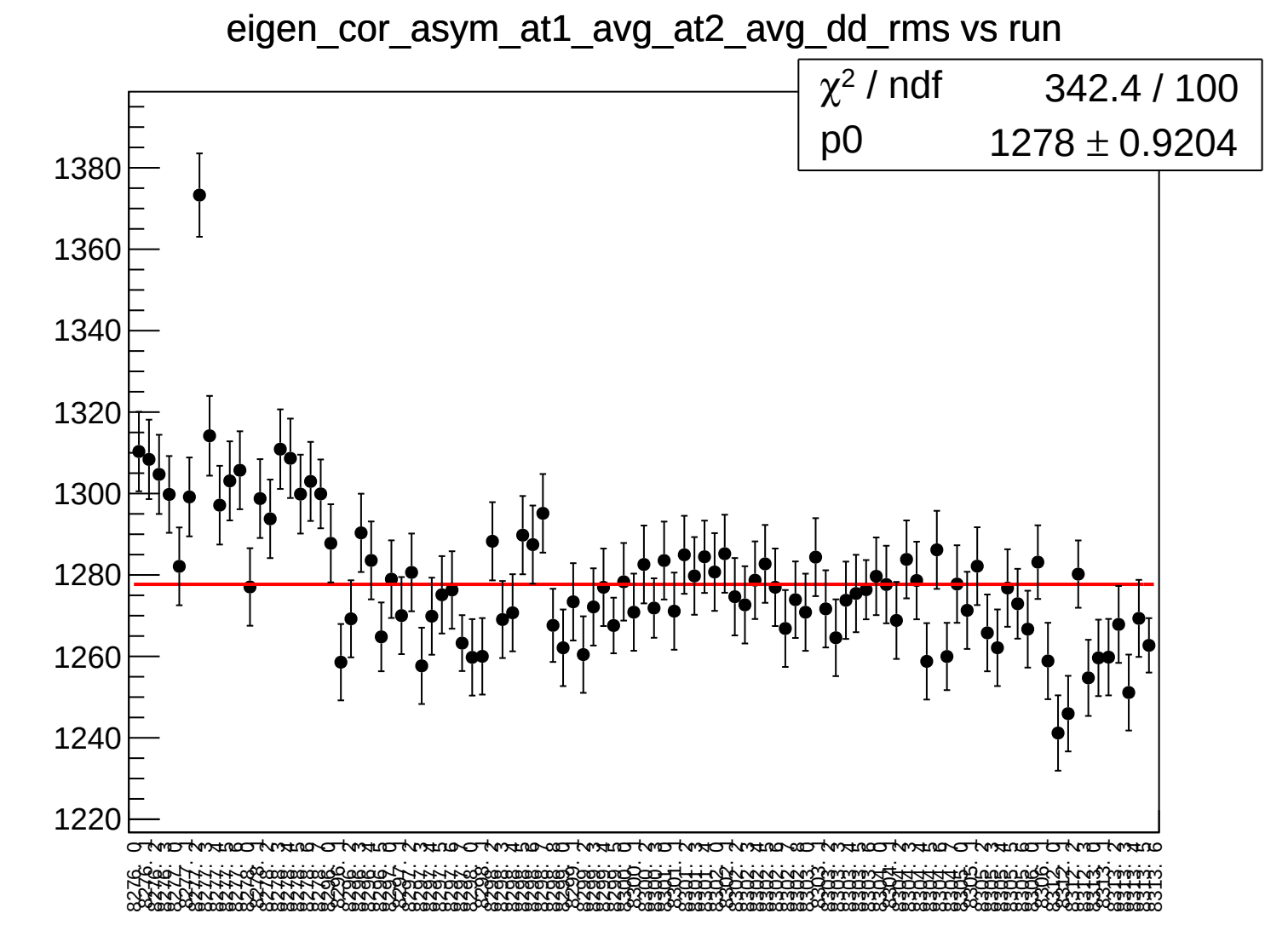

asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 114.5 / 100
p0 7066 ± 5483
pull
Entries 101
Mean −1086
Std Dev 0

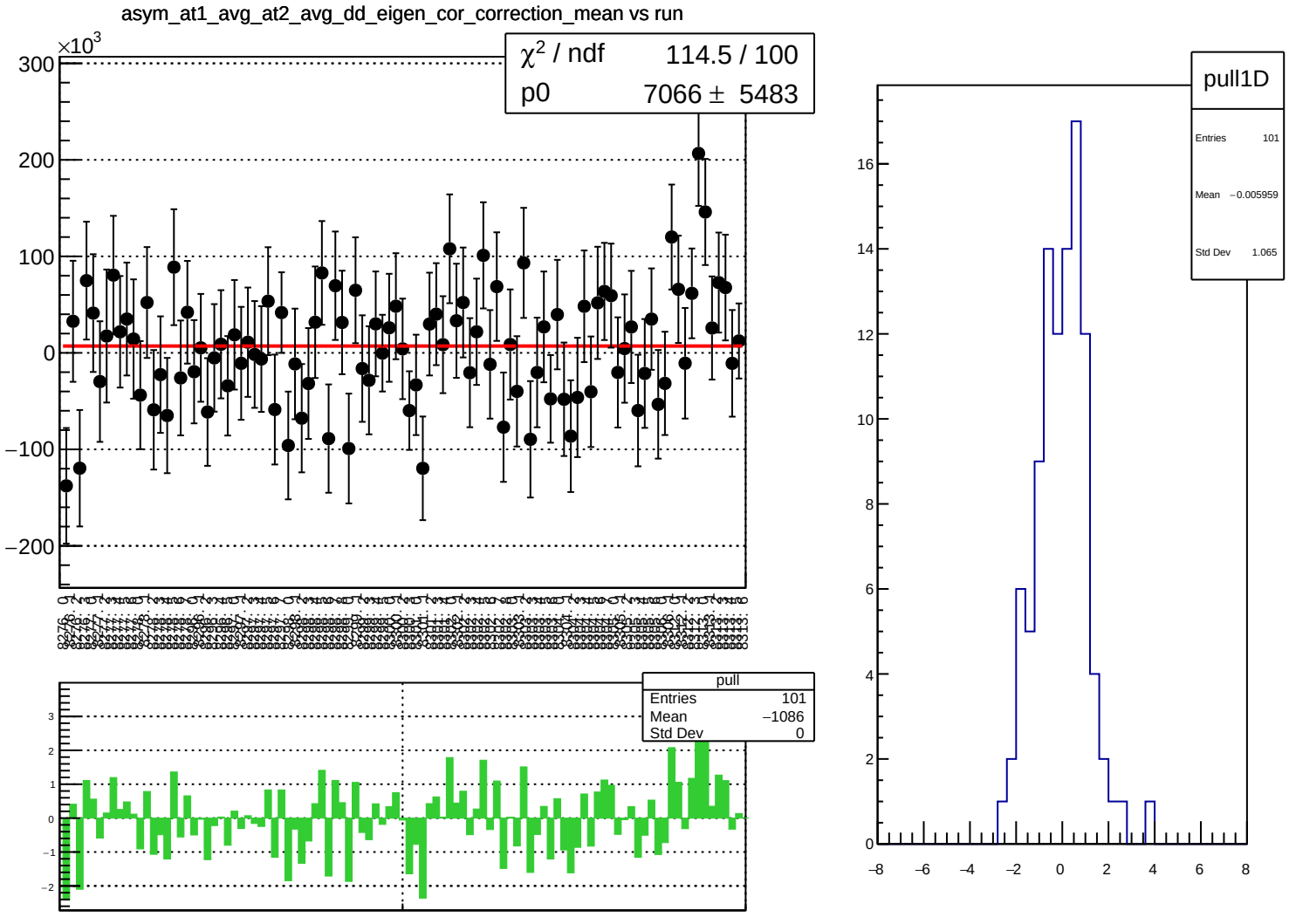

pull1D
Entries 101
Mean −0.005959
Std Dev 1.065

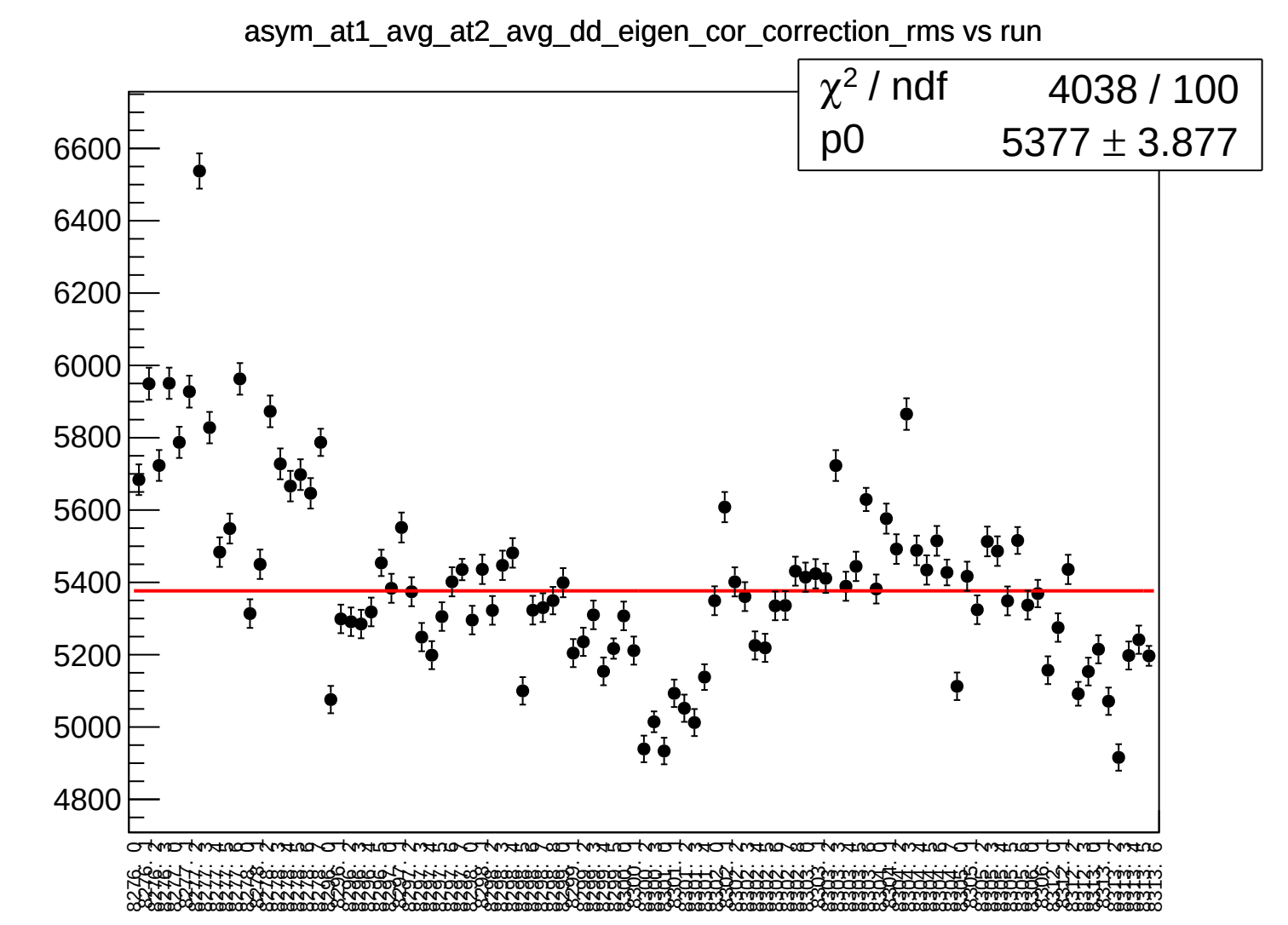

asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ² / ndf 4038 / 100
p0 5377 ± 3.877
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800

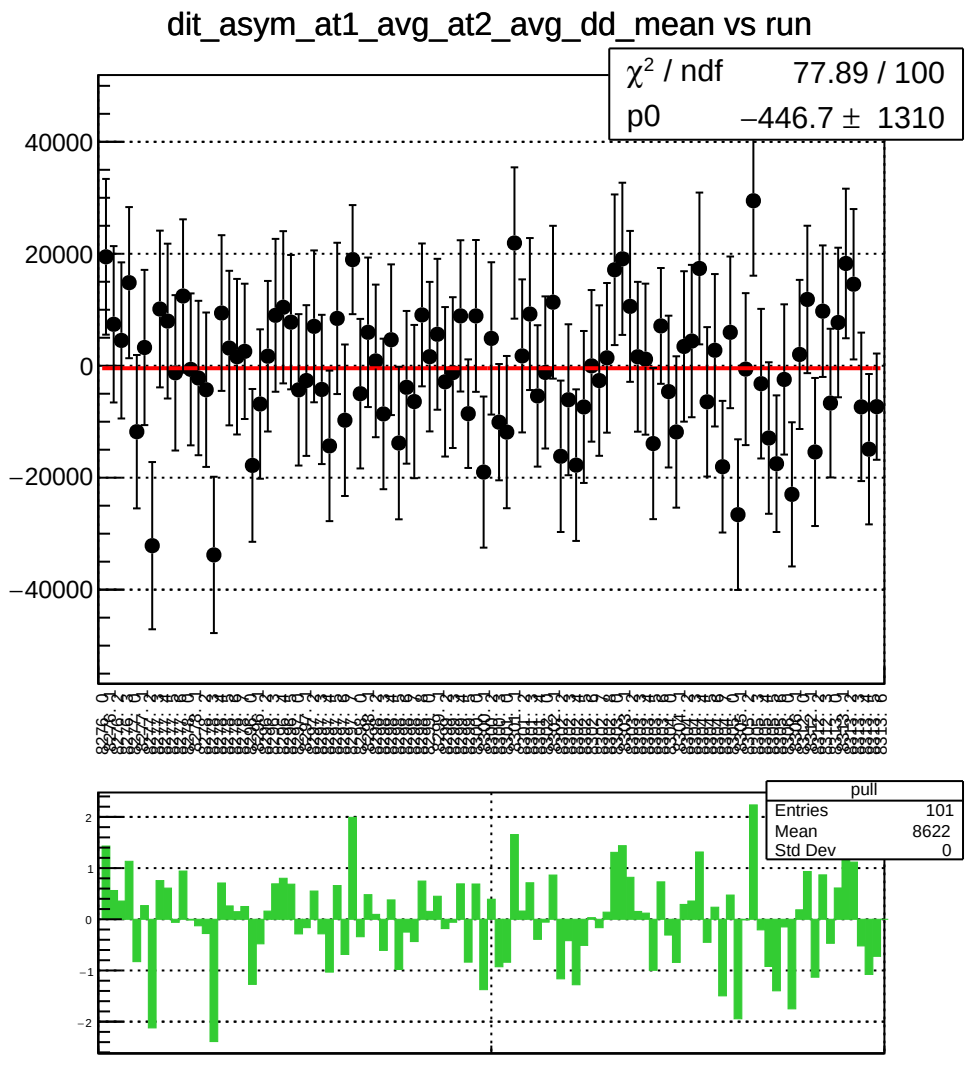

eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 78.14 / 100
p0 −662.7 ± 1302
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 3871
Std Dev 0
2
1
0
−1
−2

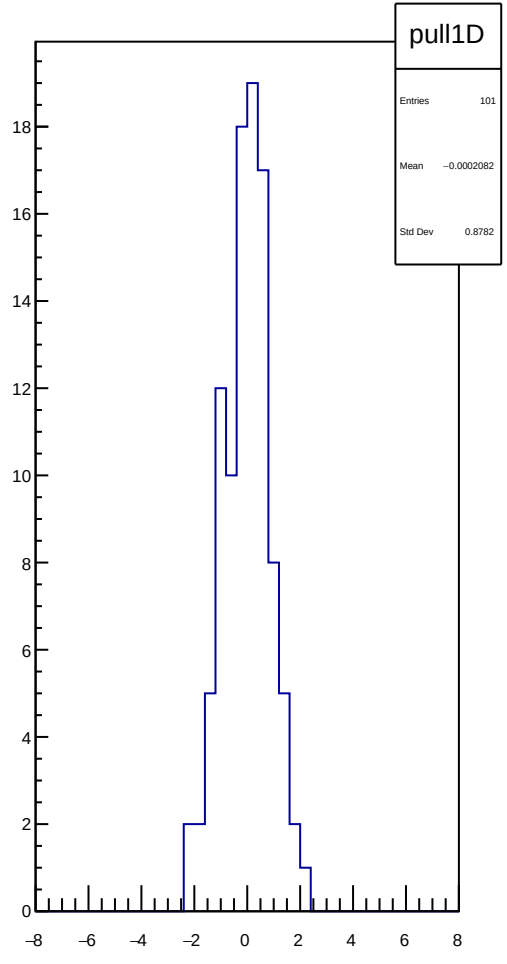

pull1D
Entries 101
Mean −0.0005425
Std Dev 0.8796
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

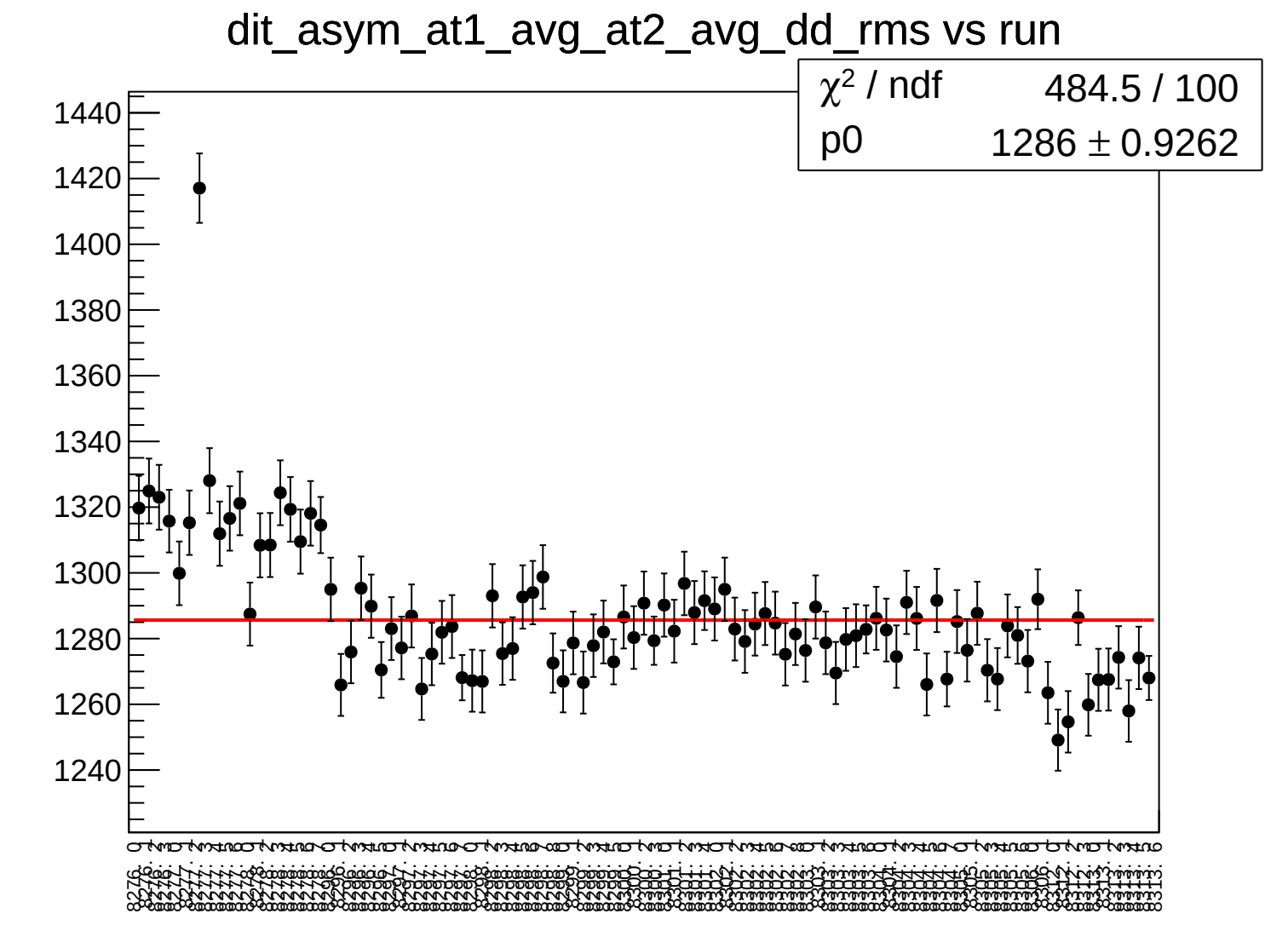

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 342.4 / 100
p0 1278 ± 0.9204
1380
1360
1340
1320
1300
1280
1260
1240
1220

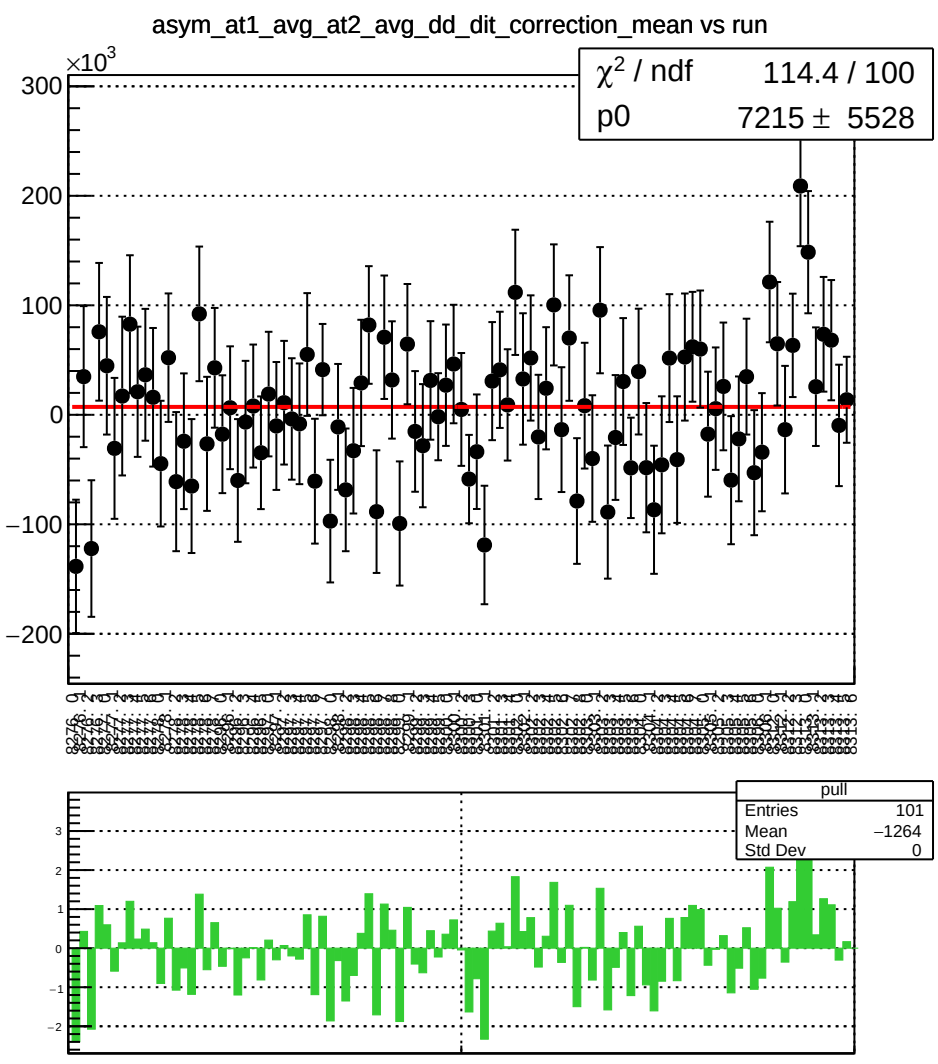

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 114.5 / 100
p0 7066 ± 5483
300
200
100
0
−100
−200
pull
Entries 101
Mean −1086
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.005959
Std Dev 1.065
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

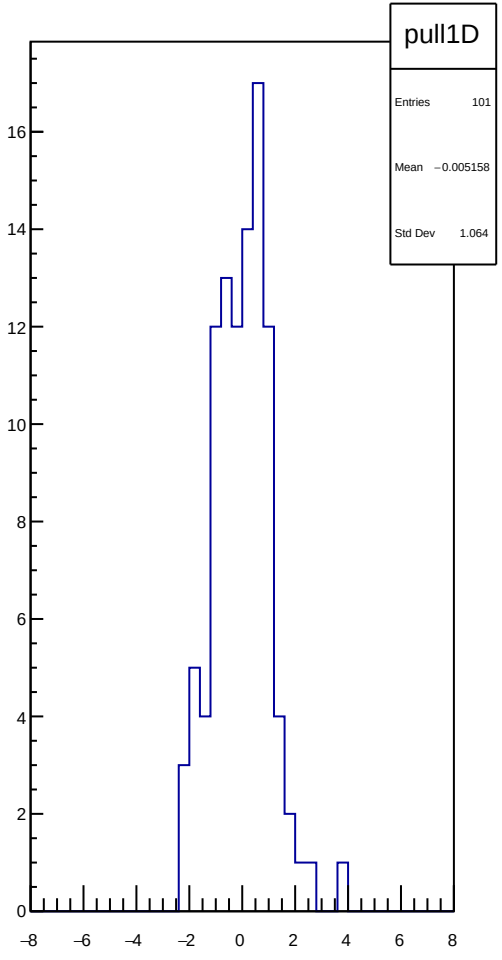

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 4038 / 100
p0 5377 ± 3.877
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800

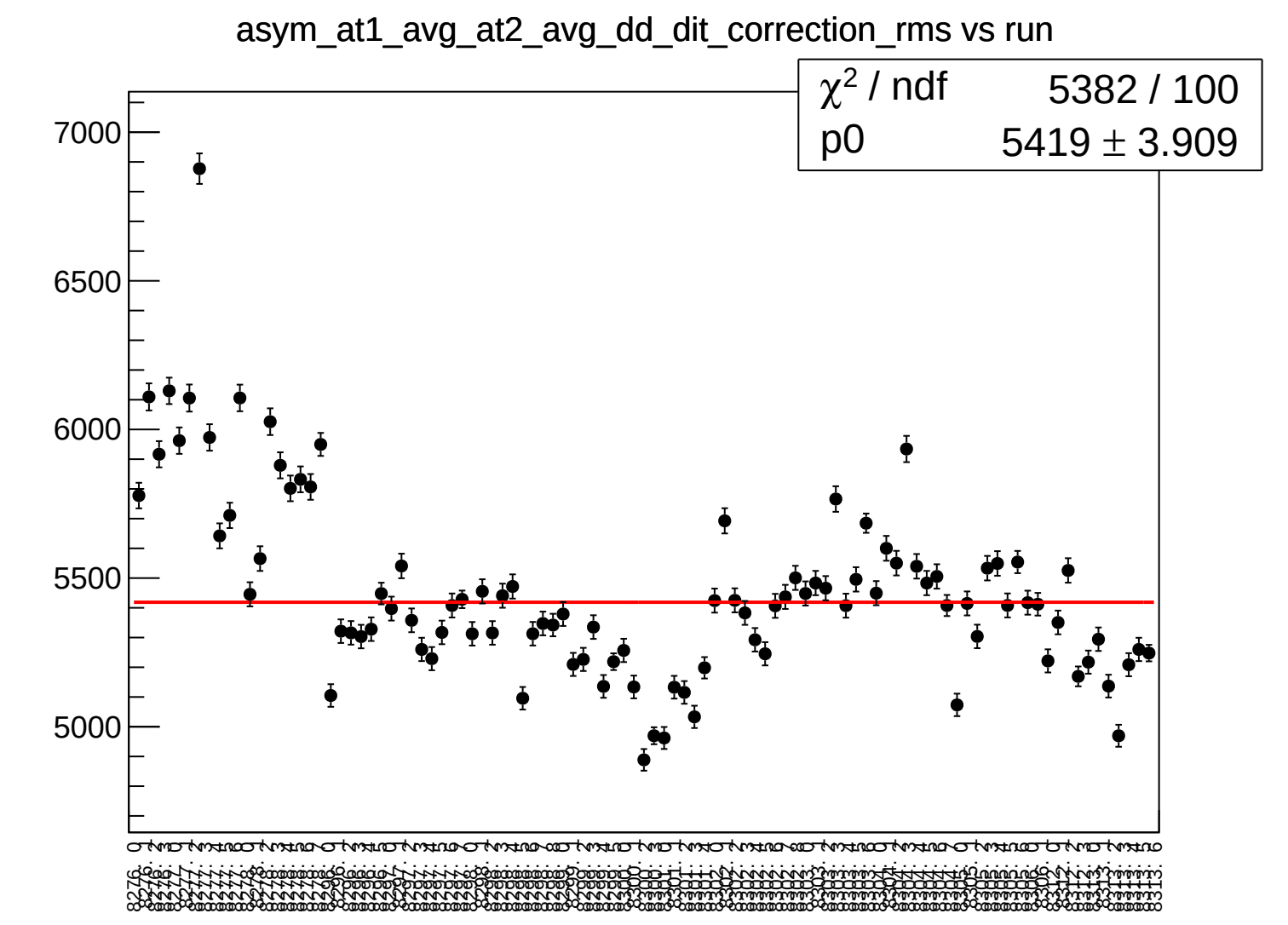

dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 77.89 / 100
p0 −446.7 ± 1310
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 8622
Std Dev 0
2
1
0
−1
−2

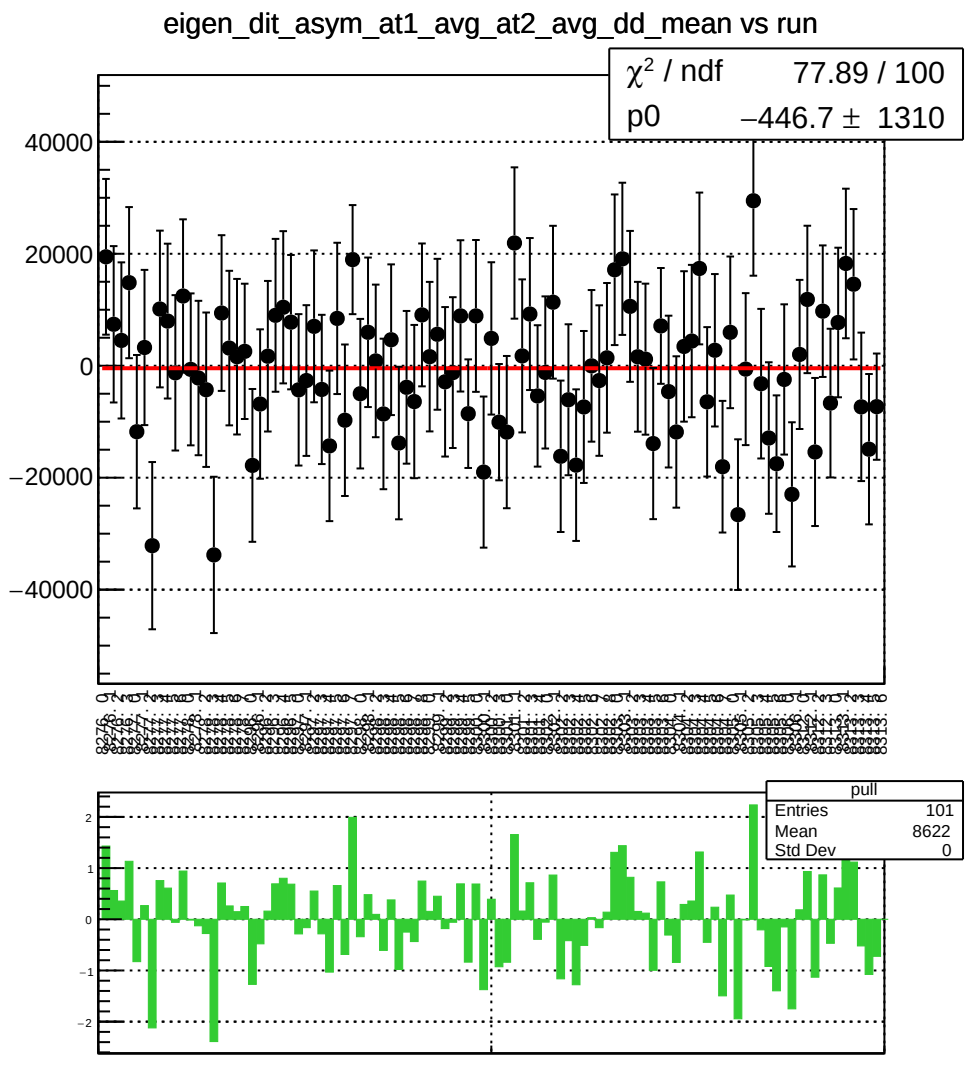

pull1D
Entries 101
Mean −0.0002082
Std Dev 0.8782
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

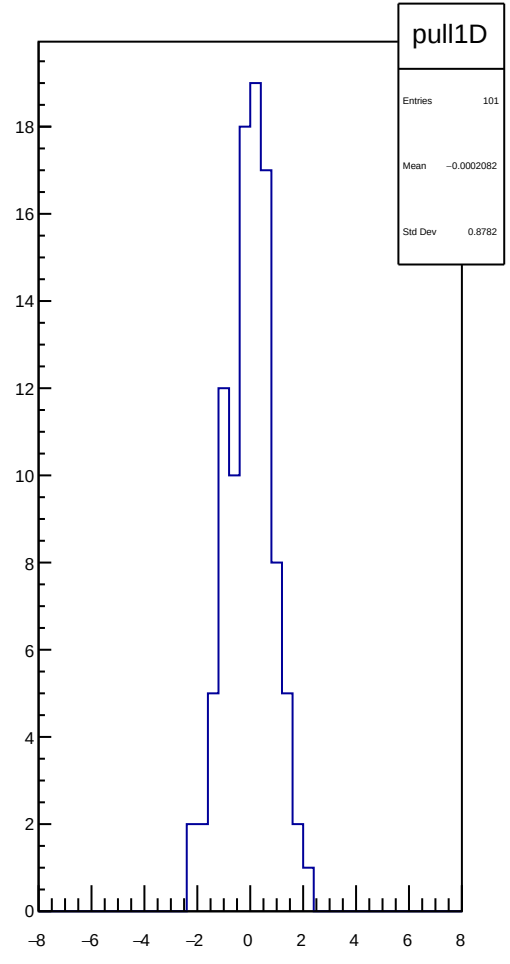

dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 484.5 / 100
p0 1286 ± 0.9262
1440
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240

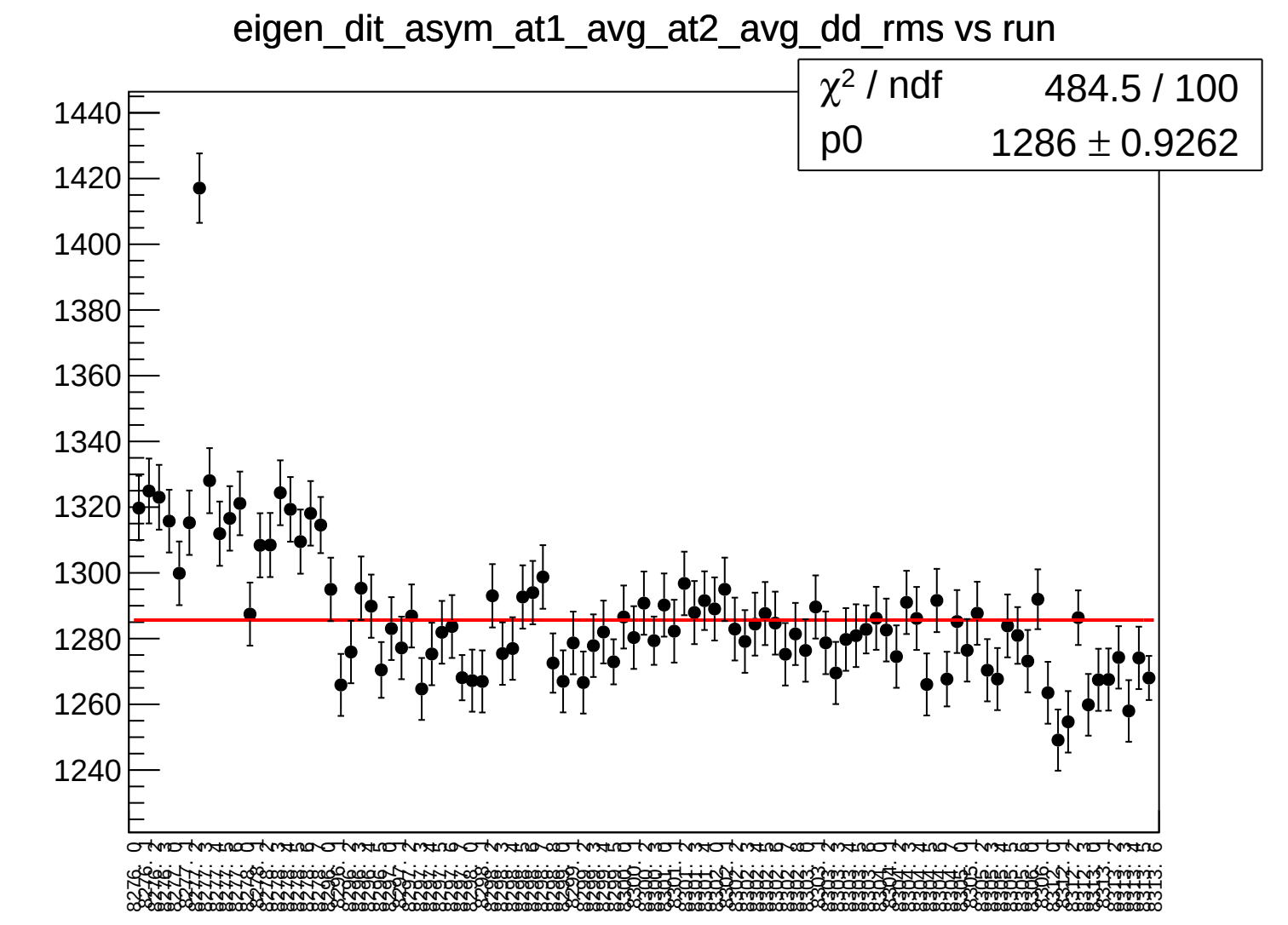

asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 114.4 / 100
p0 7215 ± 5528
pull
Entries 101
Mean −1264
Std Dev 0

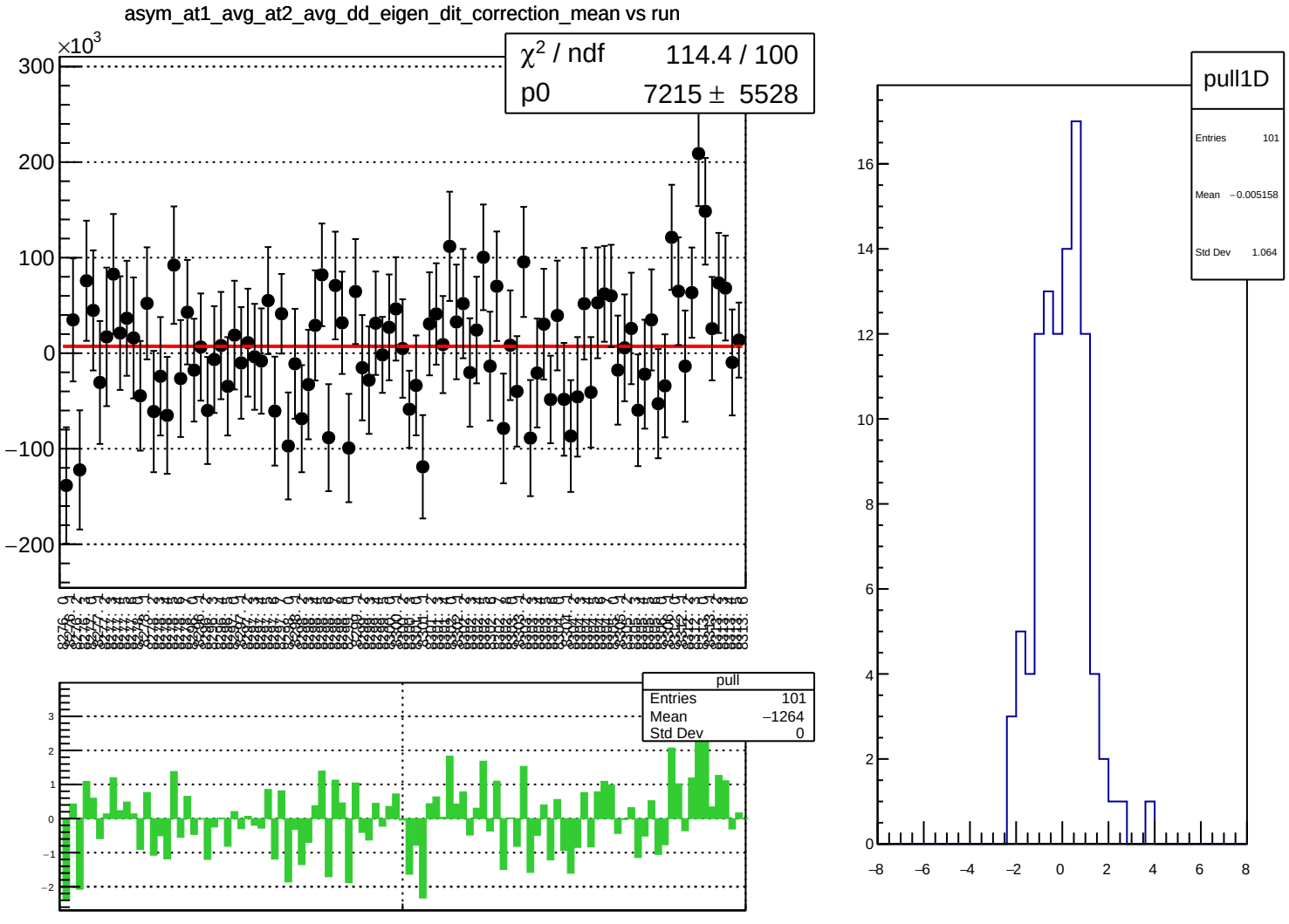

pull1D
Entries 101
Mean −0.005158
Std Dev 1.064

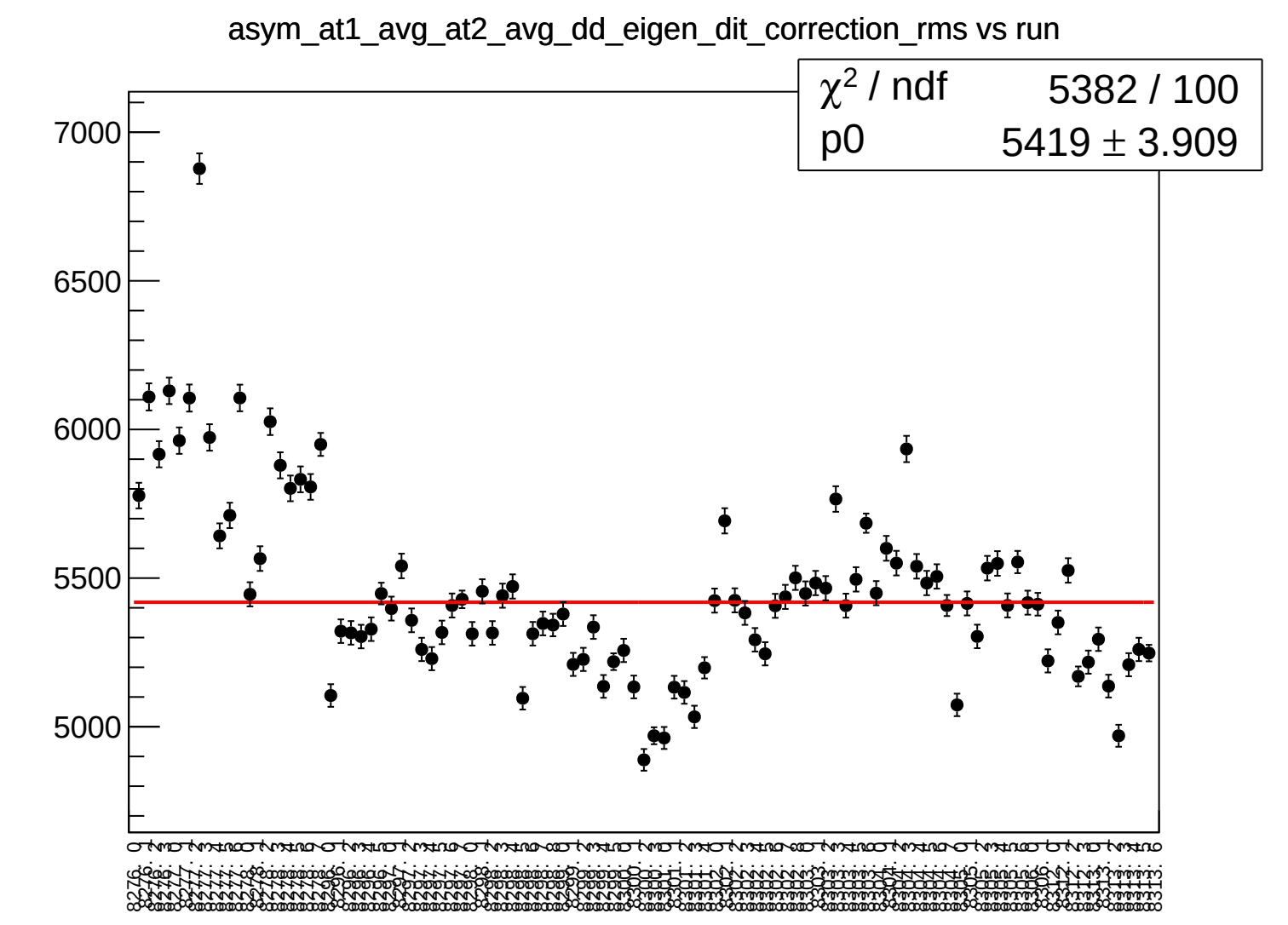

asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 5382 / 100
p0 5419 ± 3.909
7000
6500
6000
5500
5000

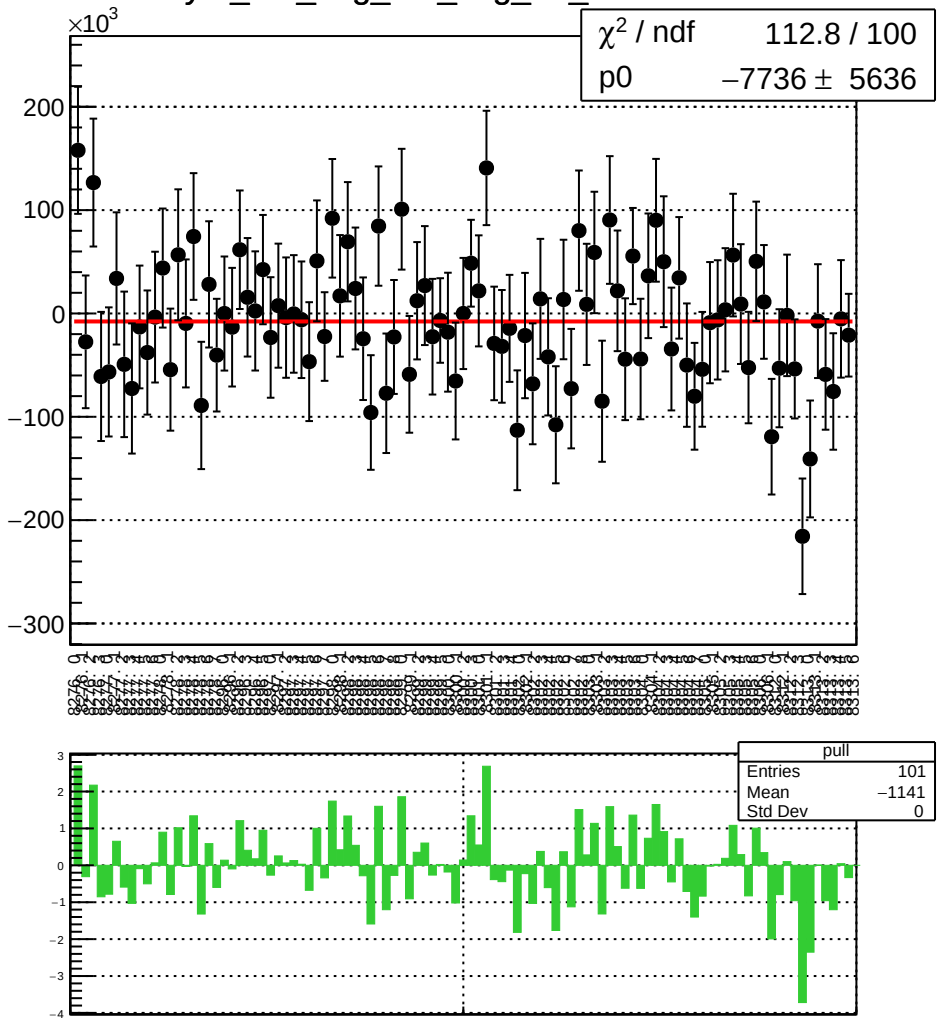

eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 77.89 / 100
p0 −446.7 ± 1310
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 8622
Std Dev 0
2
1
0
−1
−2

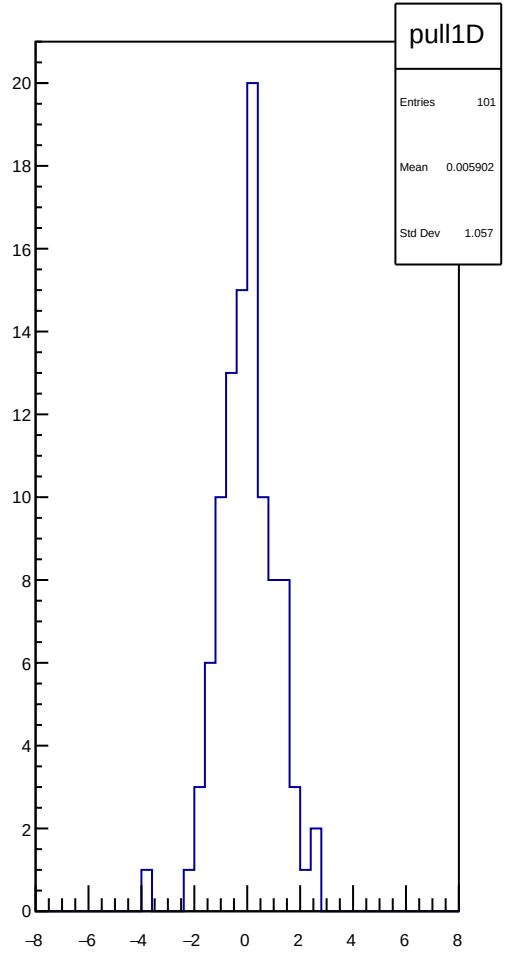

pull1D
Entries 101
Mean −0.0002082
Std Dev 0.8782
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

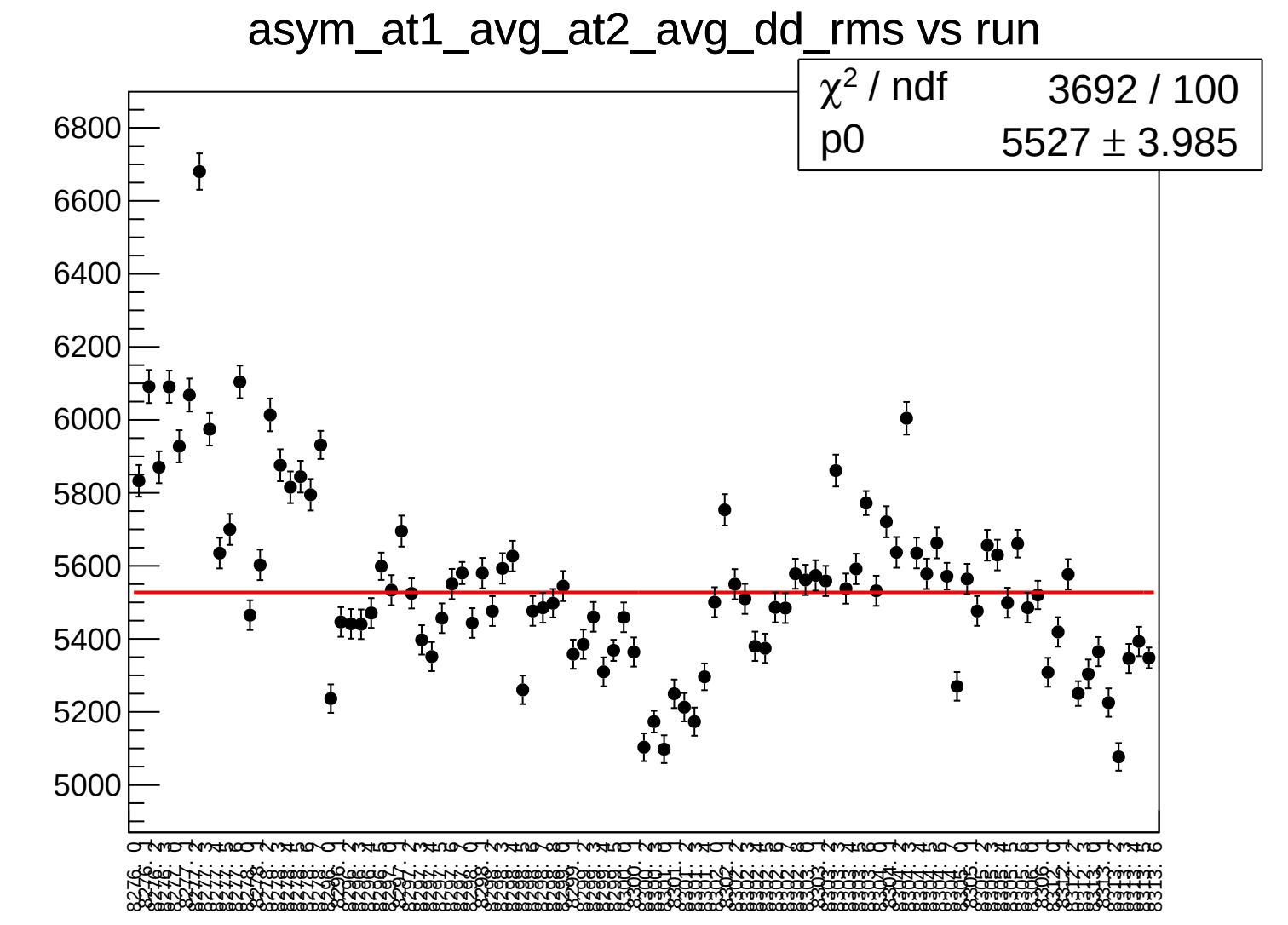

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 484.5 / 100
p0 1286 ± 0.9262
1440
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240

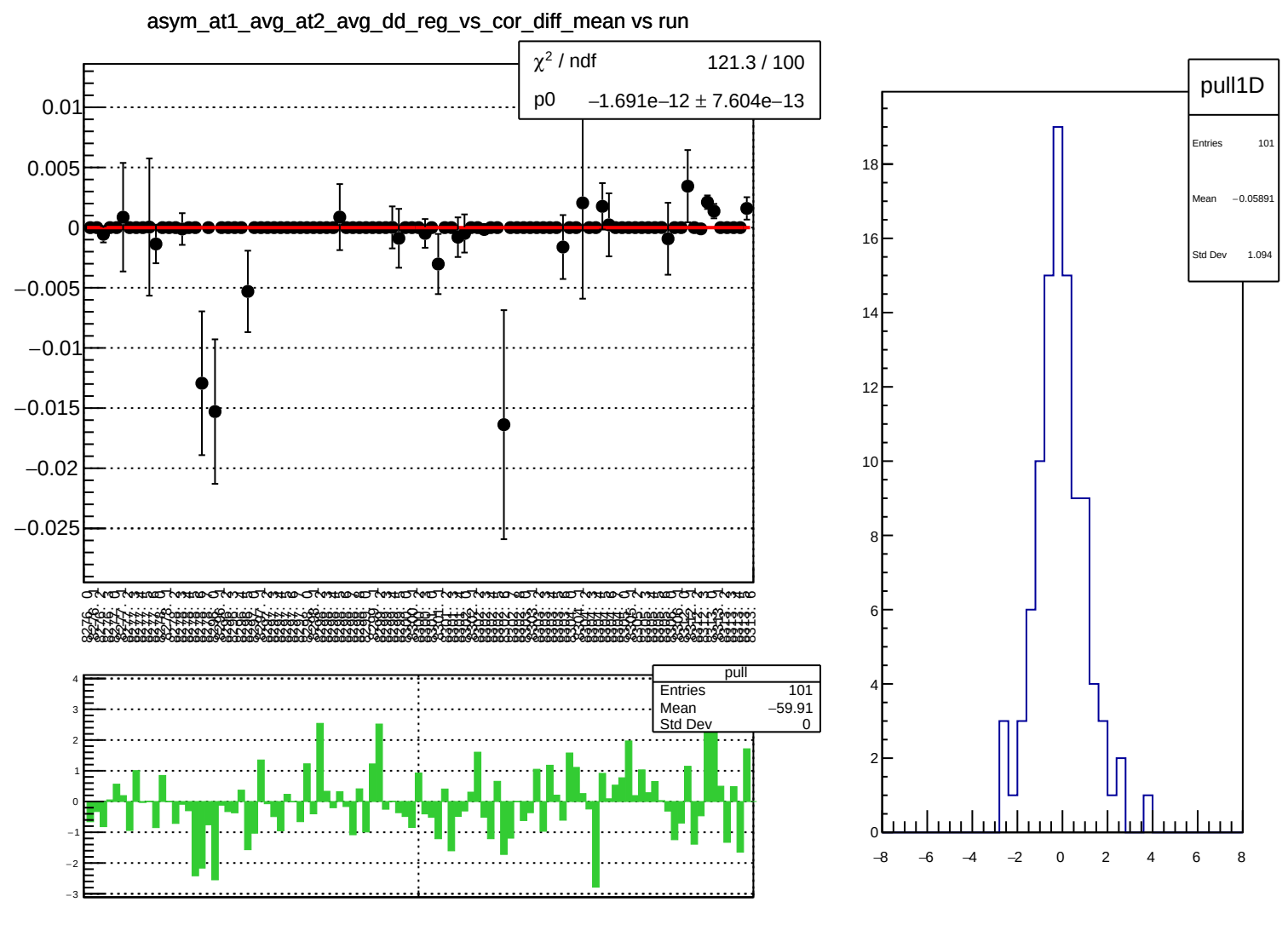

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 114.4 / 100
p0 7215 ± 5528
pull
Entries 101
Mean −1264
Std Dev 0
pull1D
Entries 101
Mean −0.005158
Std Dev 1.064

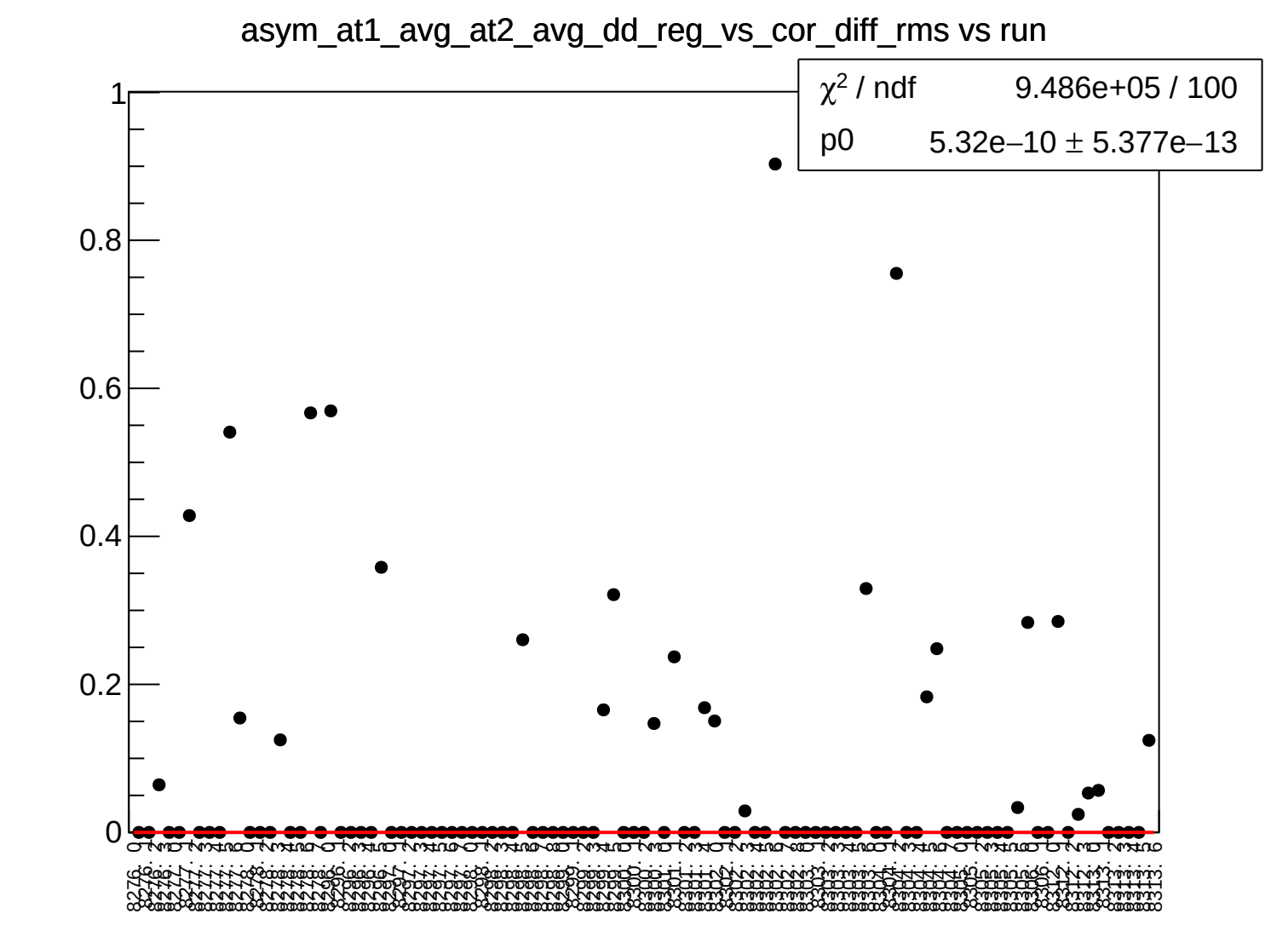

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 5382 / 100
p0 5419 ± 3.909
7000
6500
6000
5500
5000

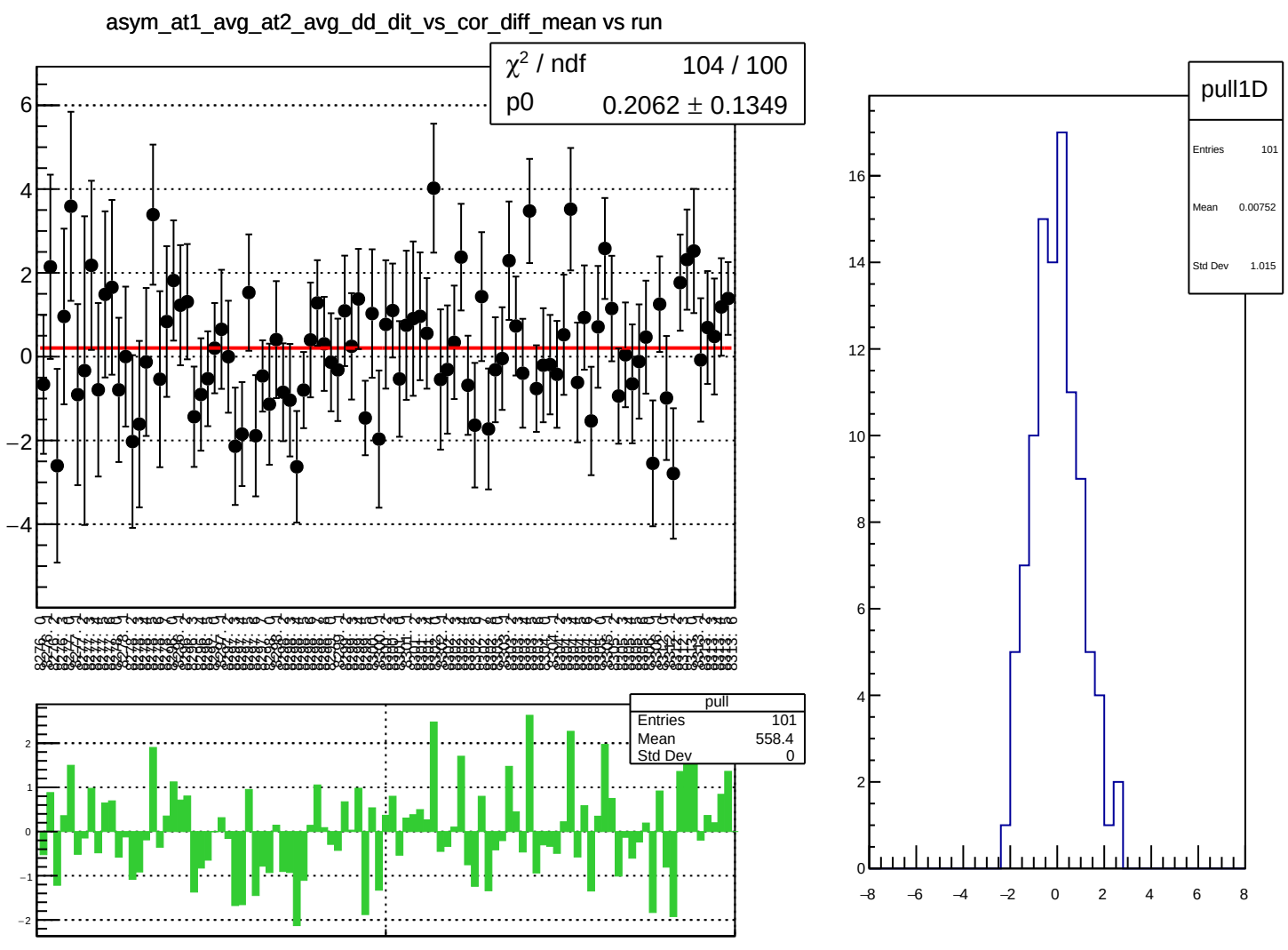

asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ² / ndf 112.8 / 100
p0 −7736 ± 5636
200
100
0
−100
−200
−300
pull
Entries 101
Mean −1141
Std Dev 0
3
2
1
0
−1
−2
−3
−4

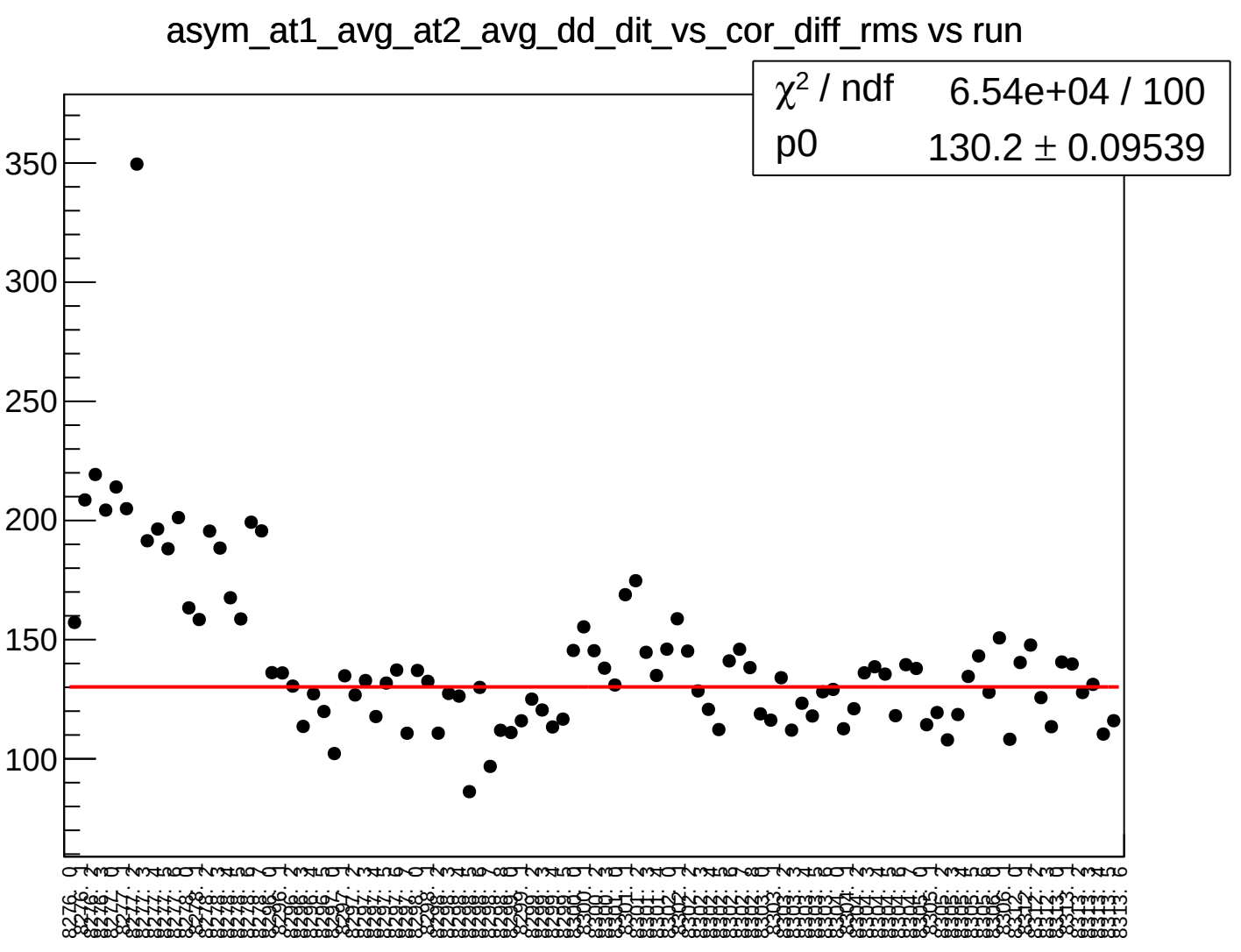

pull1D
Entries 101
Mean 0.005902
Std Dev 1.057
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

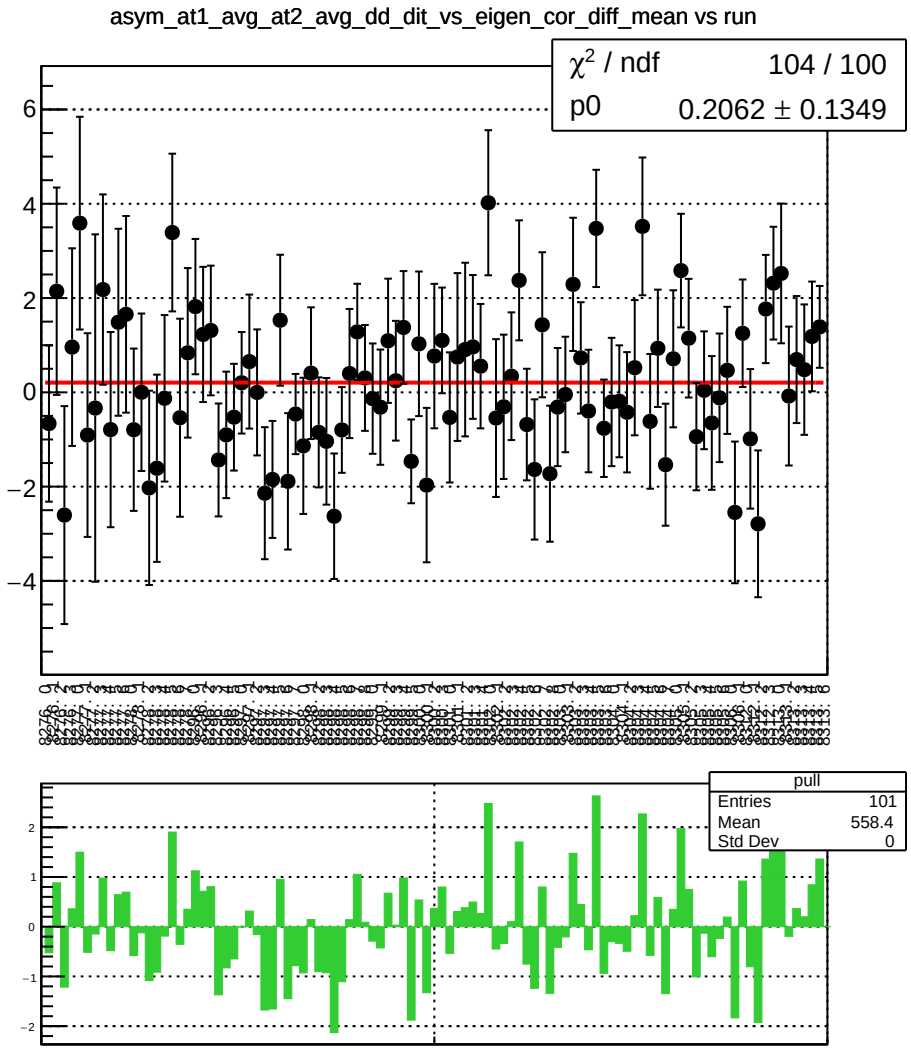

asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 3692 / 100
p0 5527 ± 3.985
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000

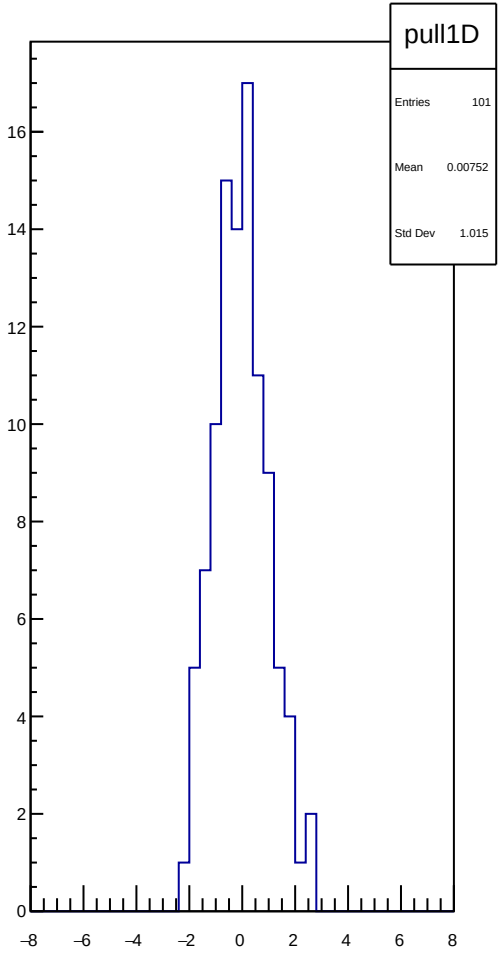

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 121.3 / 100
p0 −1.691e−12 ± 7.604e−13
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
pull
Entries 101
Mean −59.91
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean −0.05891
Std Dev 1.094
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

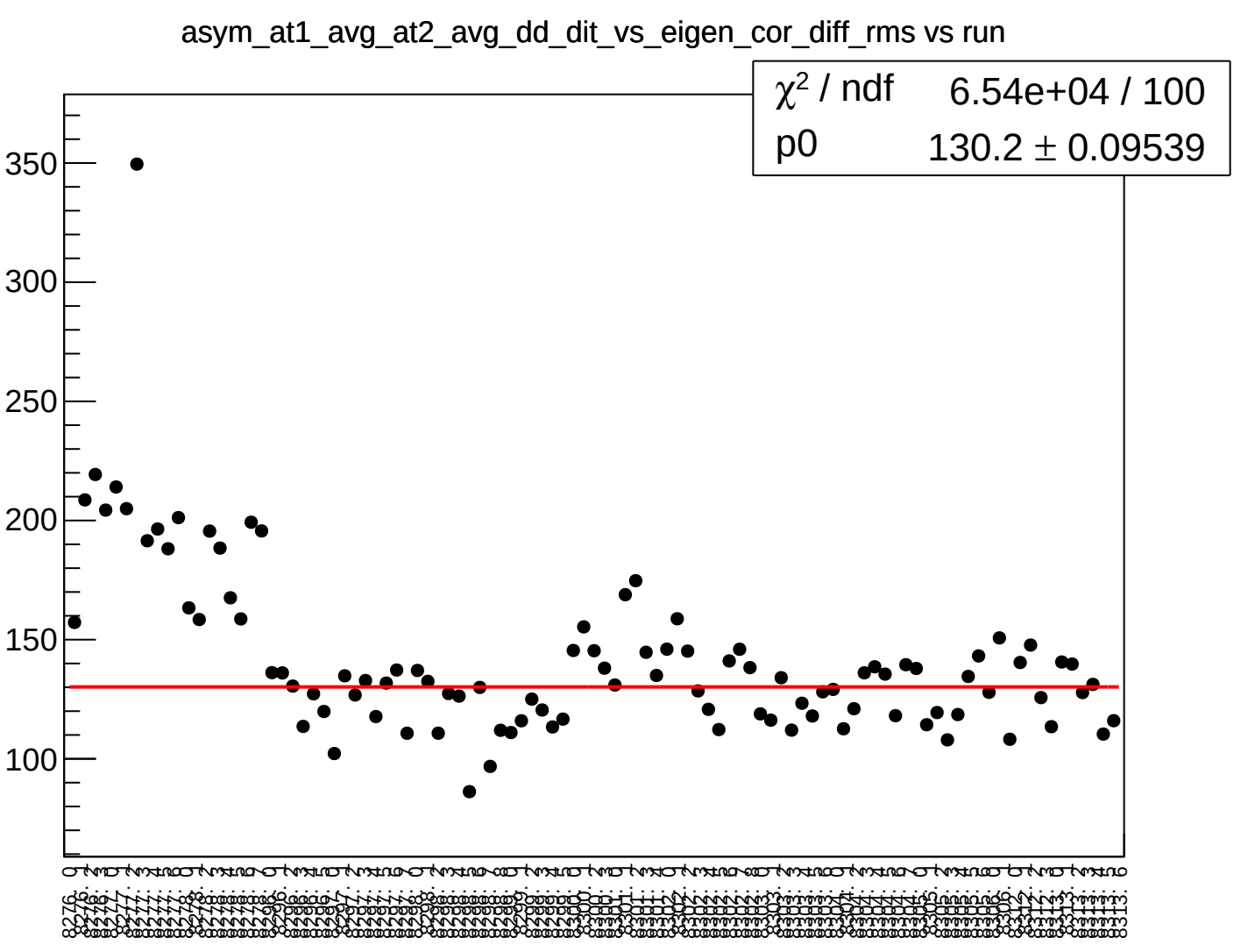

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.486e+05 / 100
p0 5.32e−10 ± 5.377e−13
1
0.8
0.6
0.4
0.2
0

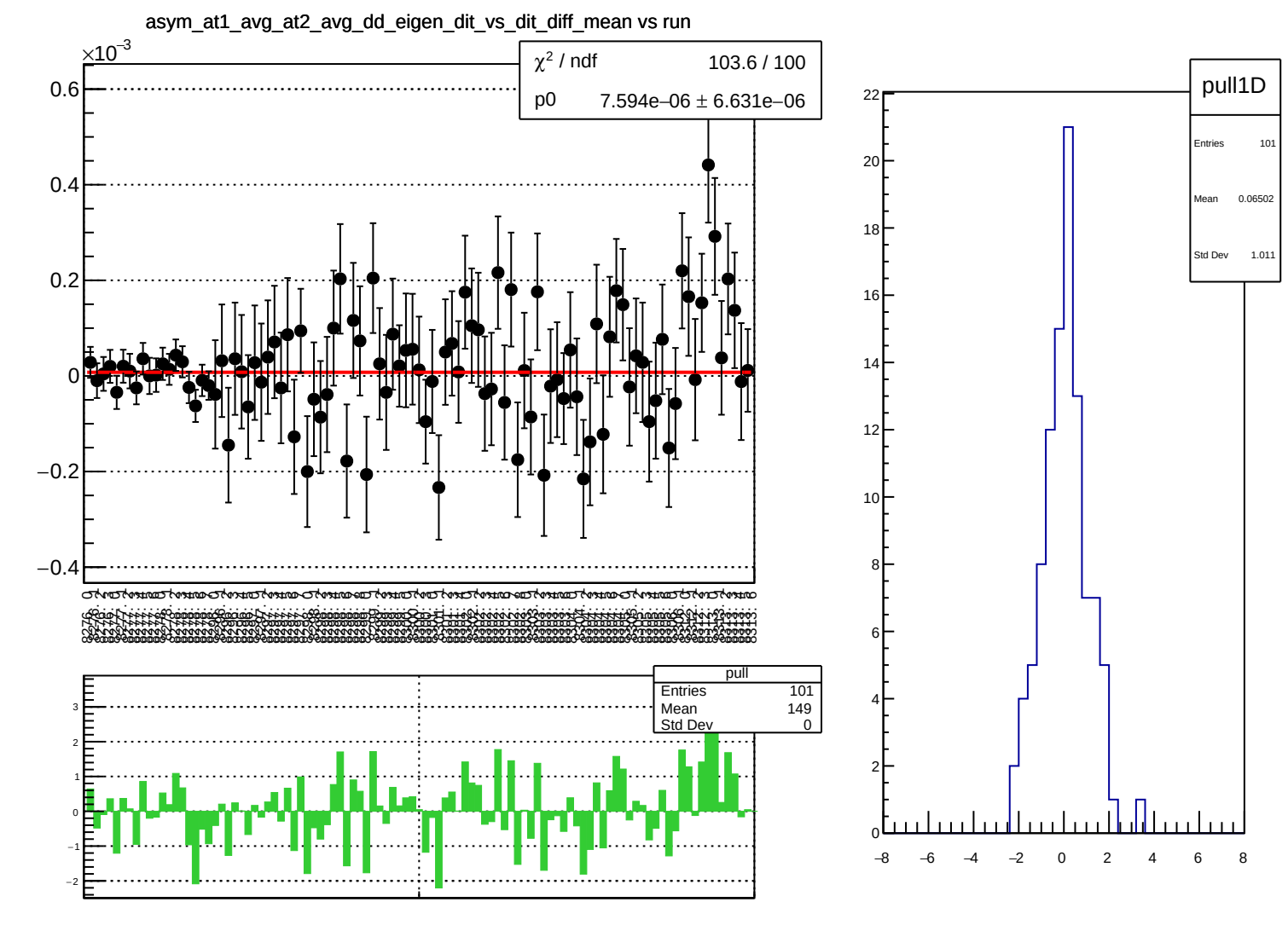

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 104 / 100
p0 0.2062 ± 0.1349
pull
Entries 101
Mean 558.4
Std Dev 0
pull1D
Entries 101
Mean 0.00752
Std Dev 1.015

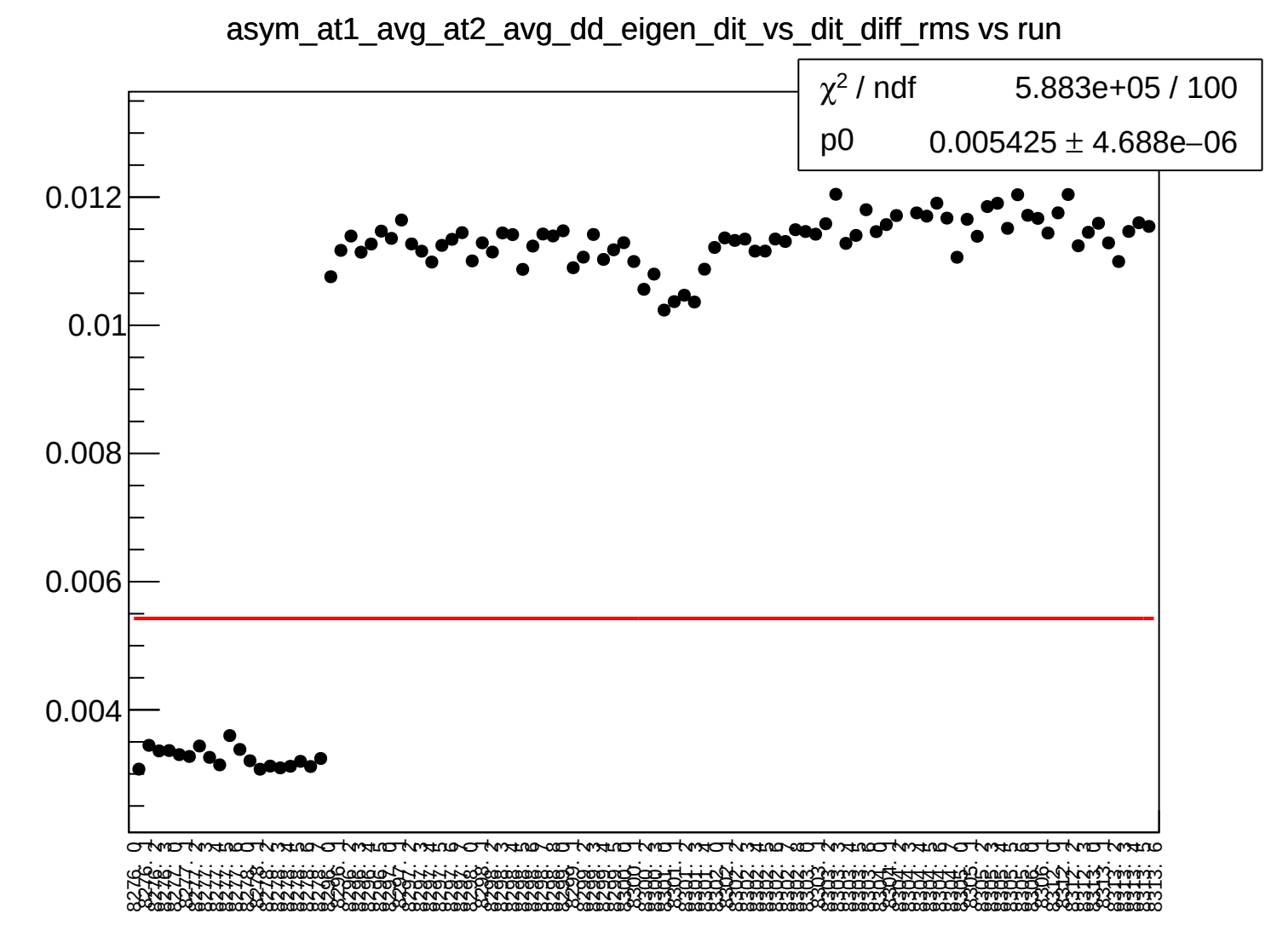

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.54e+04 / 100
p0 130.2 ± 0.09539
350
300
250
200
150
100

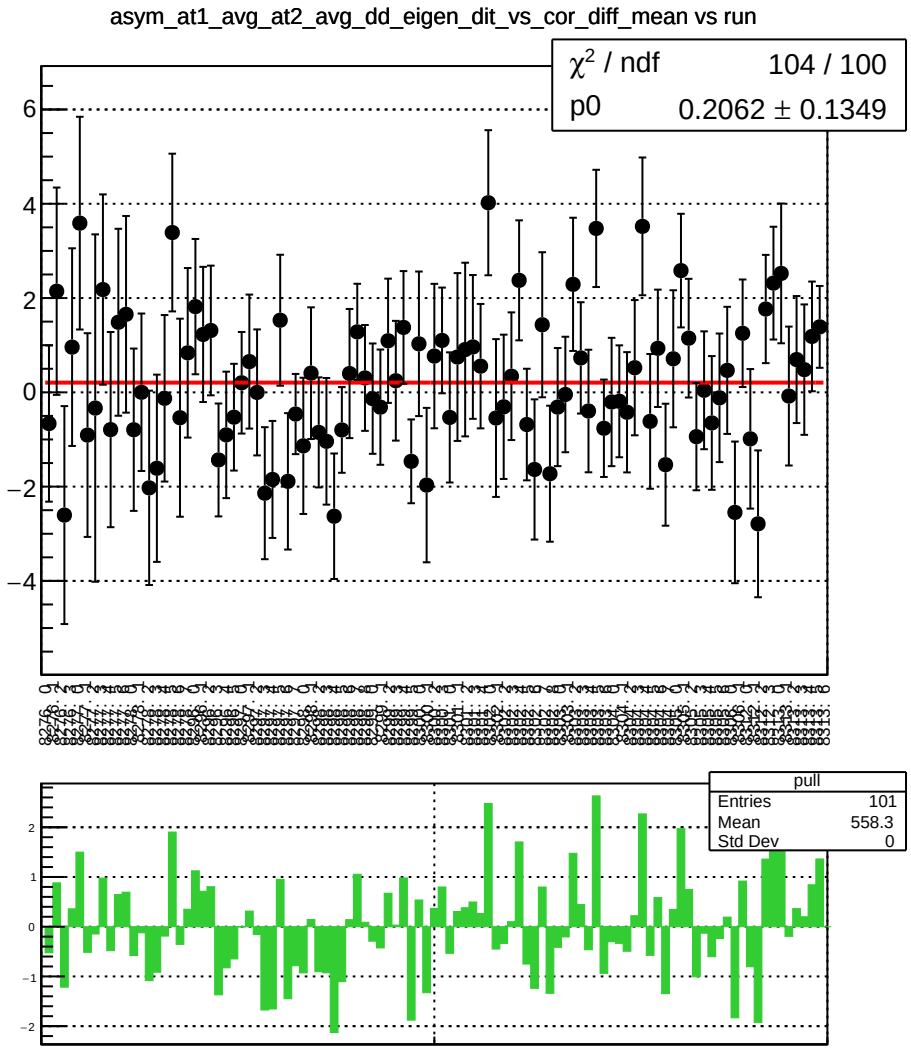

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104 / 100
p0 0.2062 ± 0.1349
pull
Entries 101
Mean 558.4
Std Dev 0

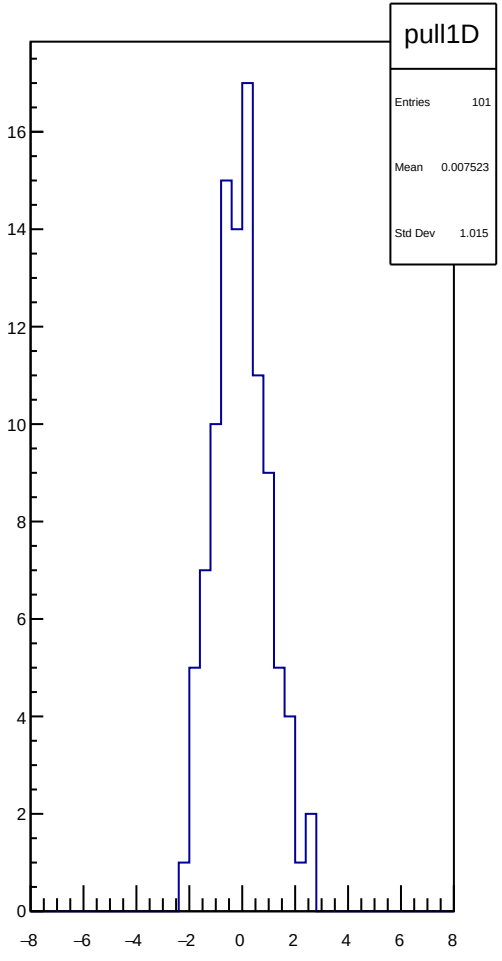

pull1D
Entries 101
Mean 0.00752
Std Dev 1.015

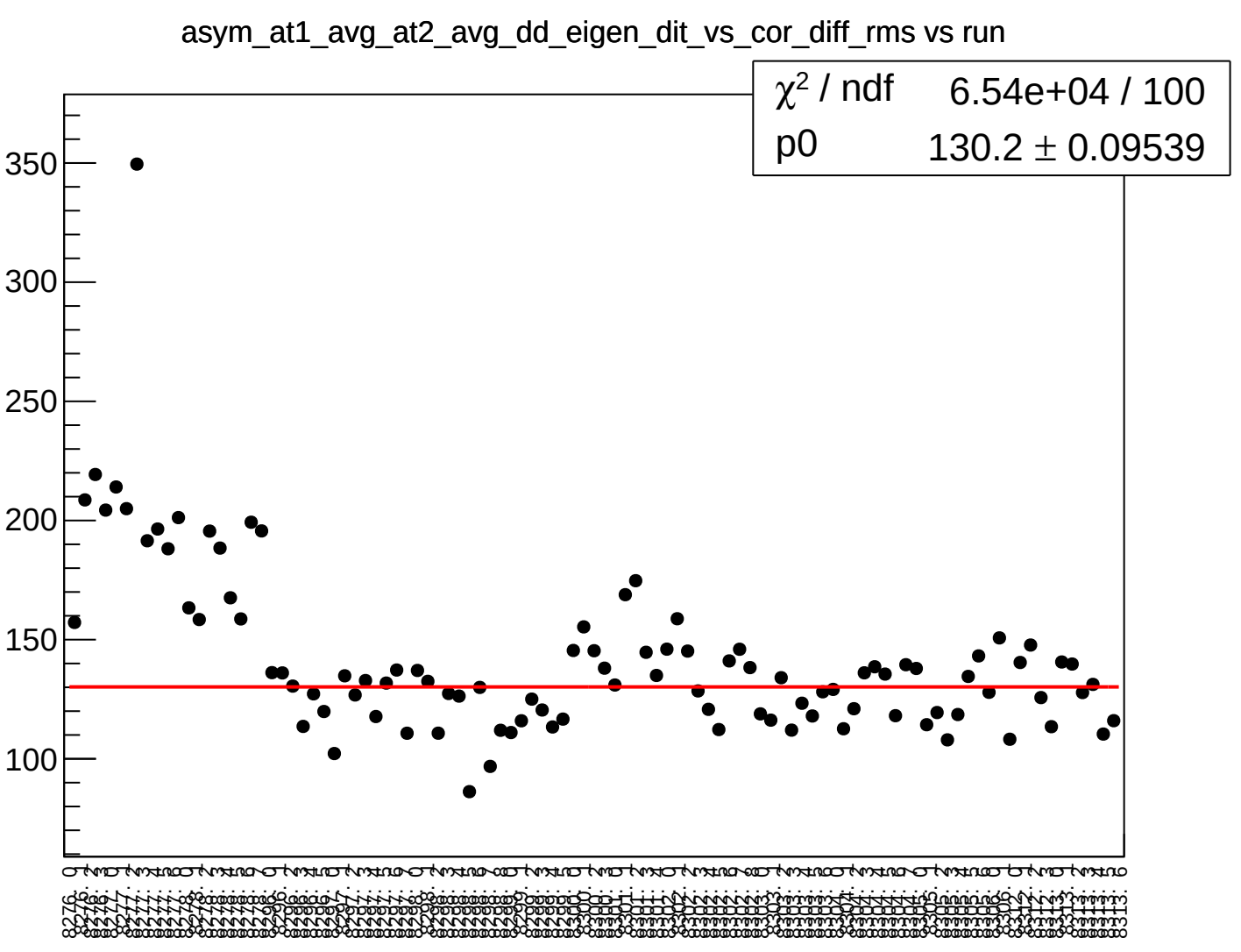

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.54e+04 / 100
p0 130.2 ± 0.09539
350
300
250
200
150
100

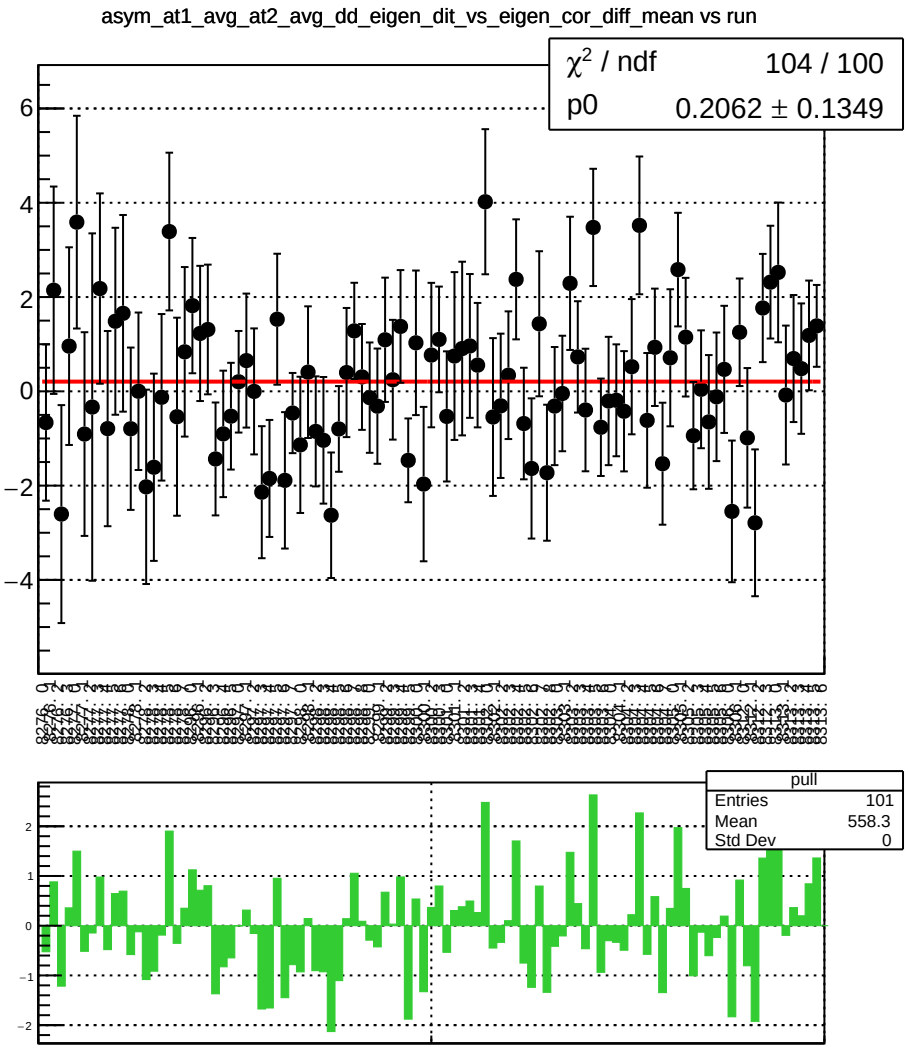

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103.6 / 100
p0 7.594e−06 ± 6.631e−06
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 101
Mean 149
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.06502
Std Dev 1.011
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

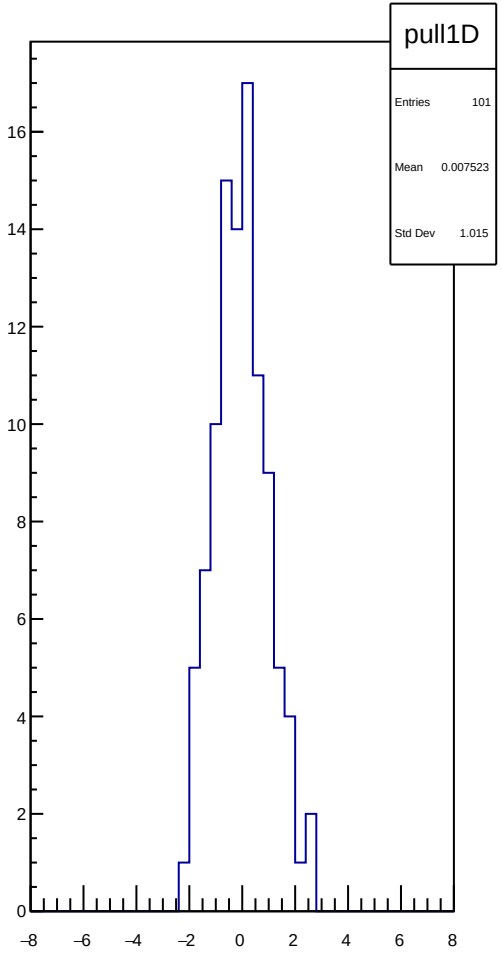

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.883e+05 / 100
p0 0.005425 ± 4.688e−06
0.012
0.01
0.008
0.006
0.004

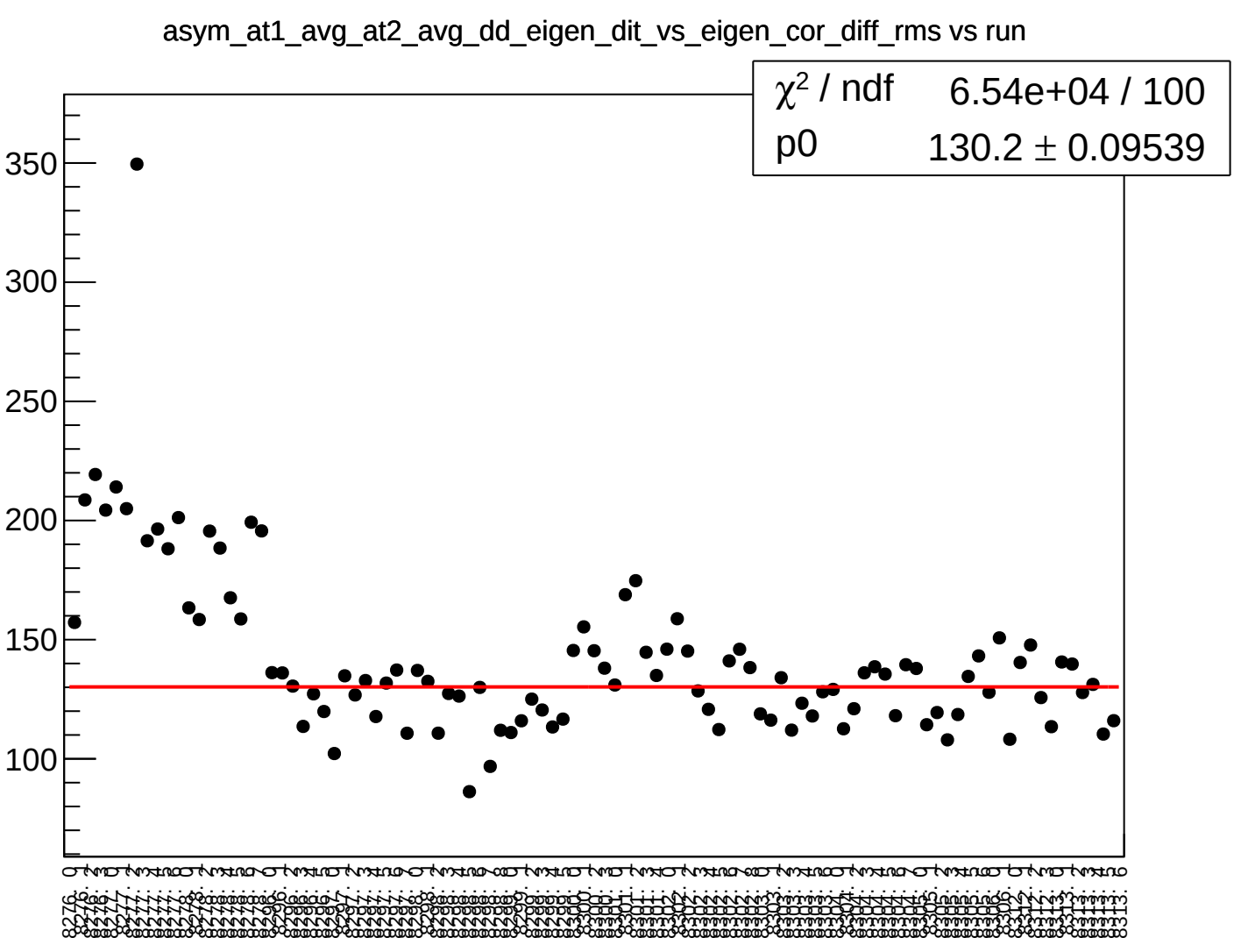

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104 / 100
p0 0.2062 ± 0.1349
pull
Entries 101
Mean 558.3
Std Dev 0

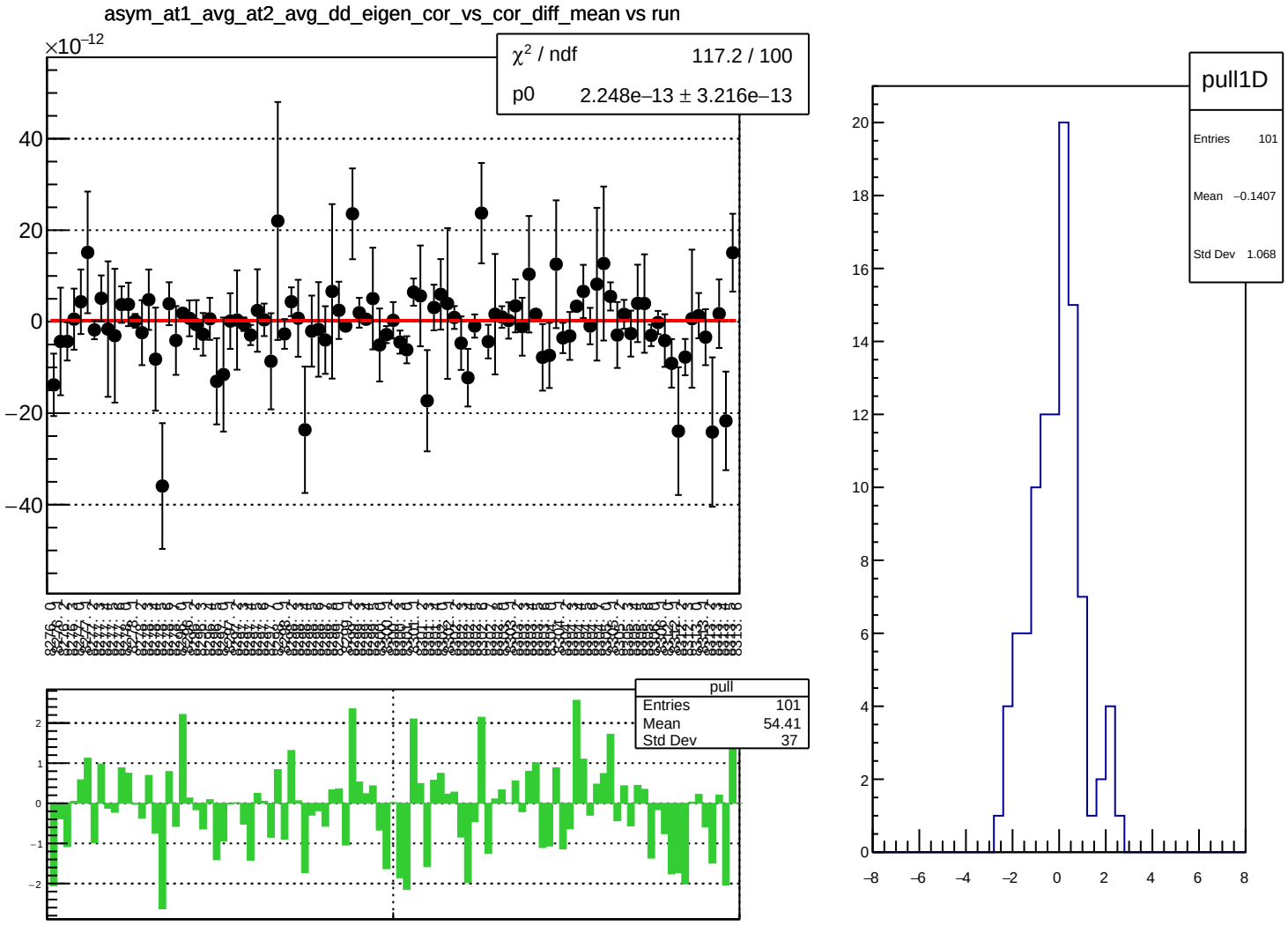

pull1D
Entries 101
Mean 0.007523
Std Dev 1.015

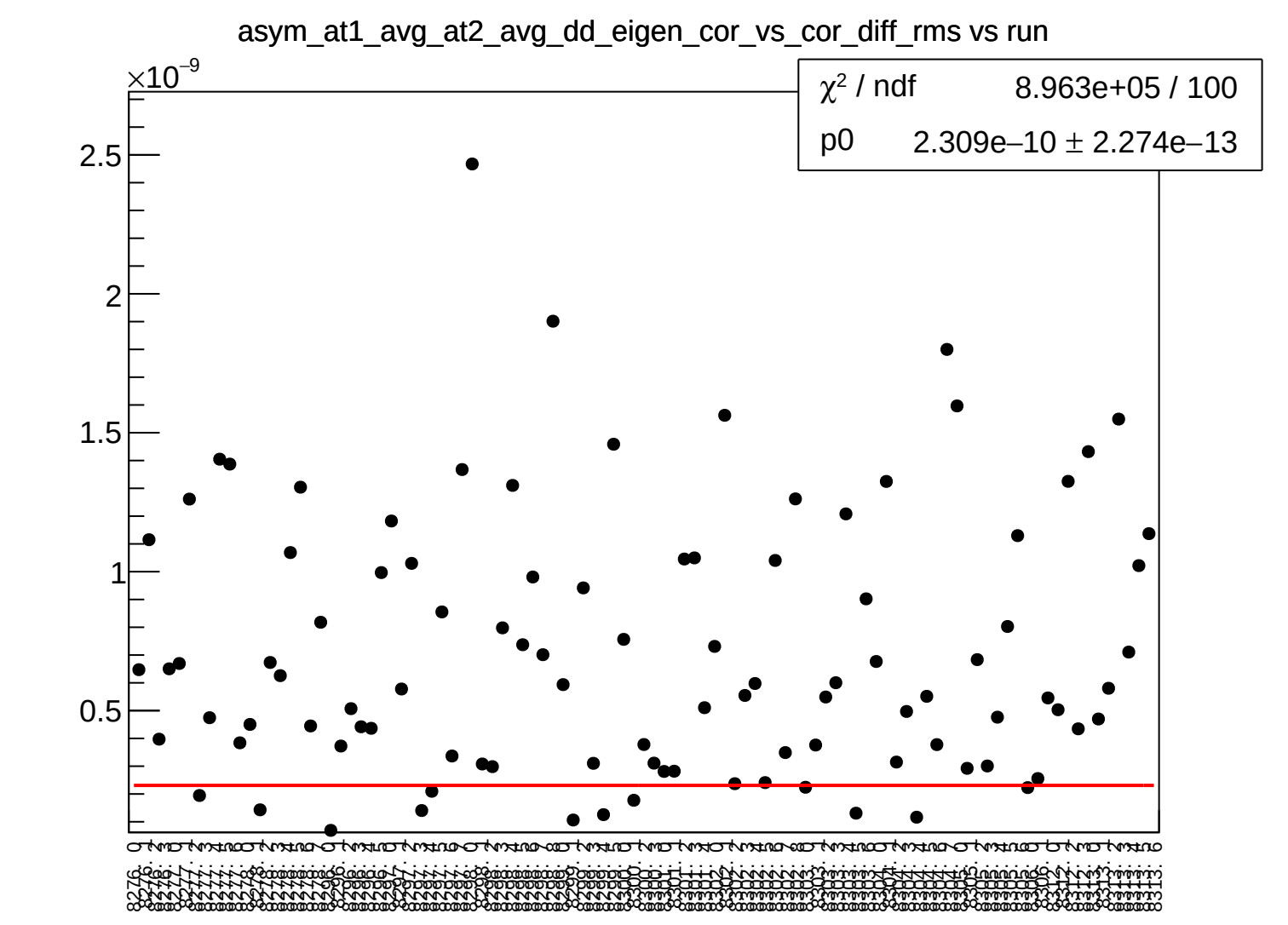

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.54e+04 / 100
p0 130.2 ± 0.09539
350
300
250
200
150
100

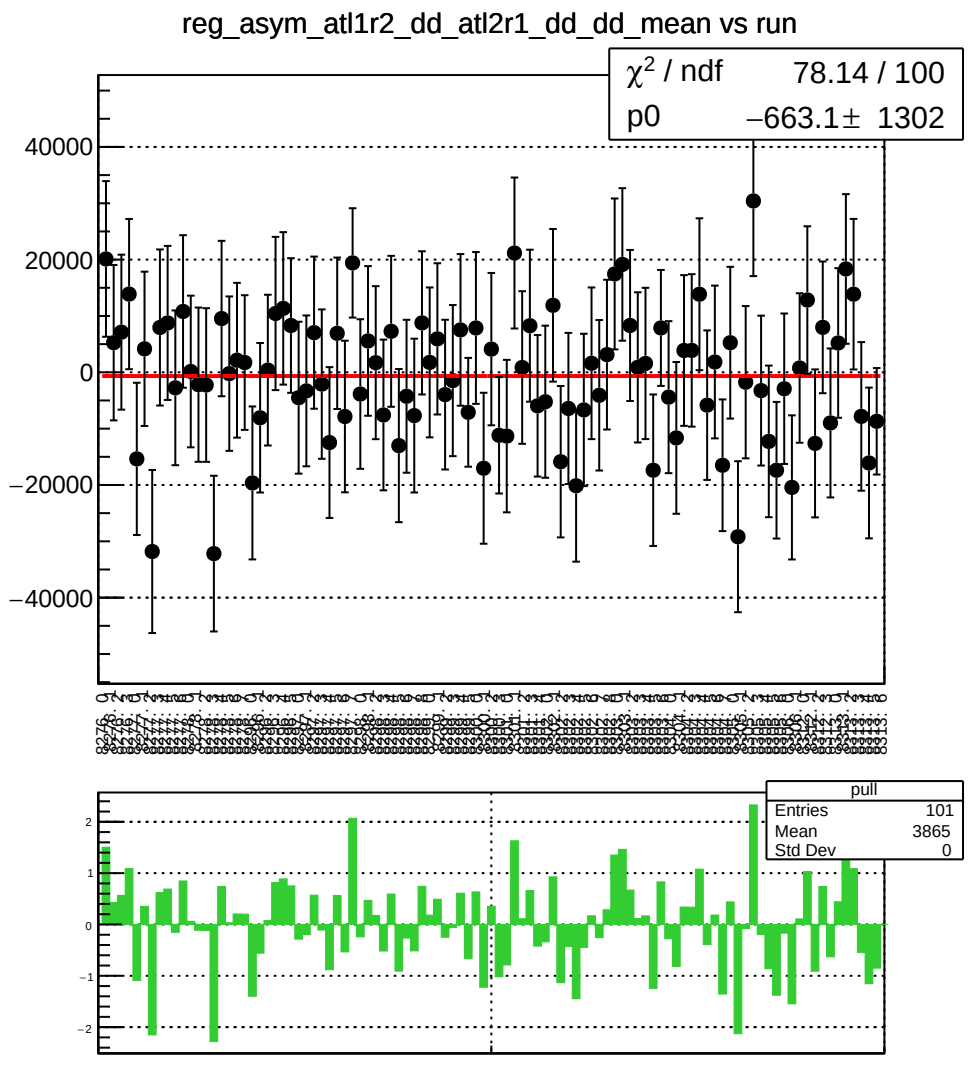

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104 / 100
p0 0.2062 ± 0.1349
pull
Entries 101
Mean 558.3
Std Dev 0

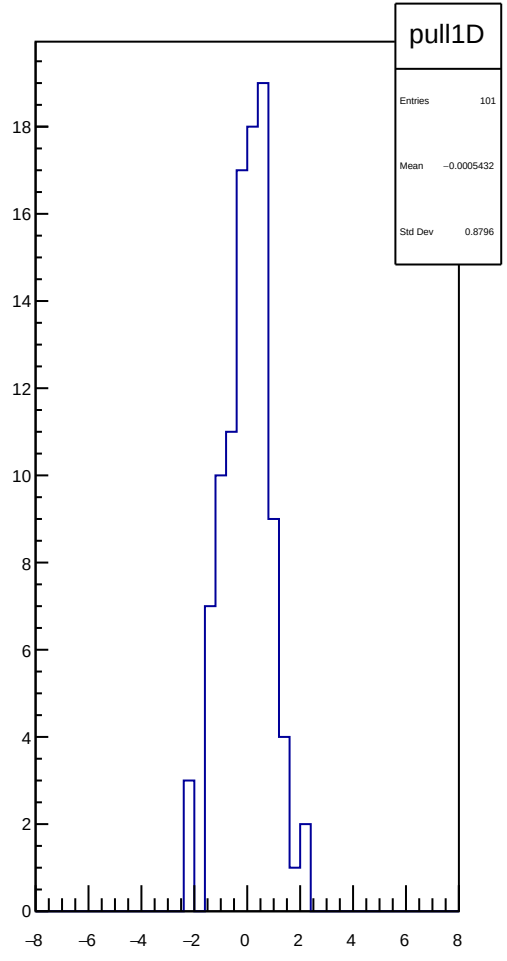

pull1D
Entries 101
Mean 0.007523
Std Dev 1.015

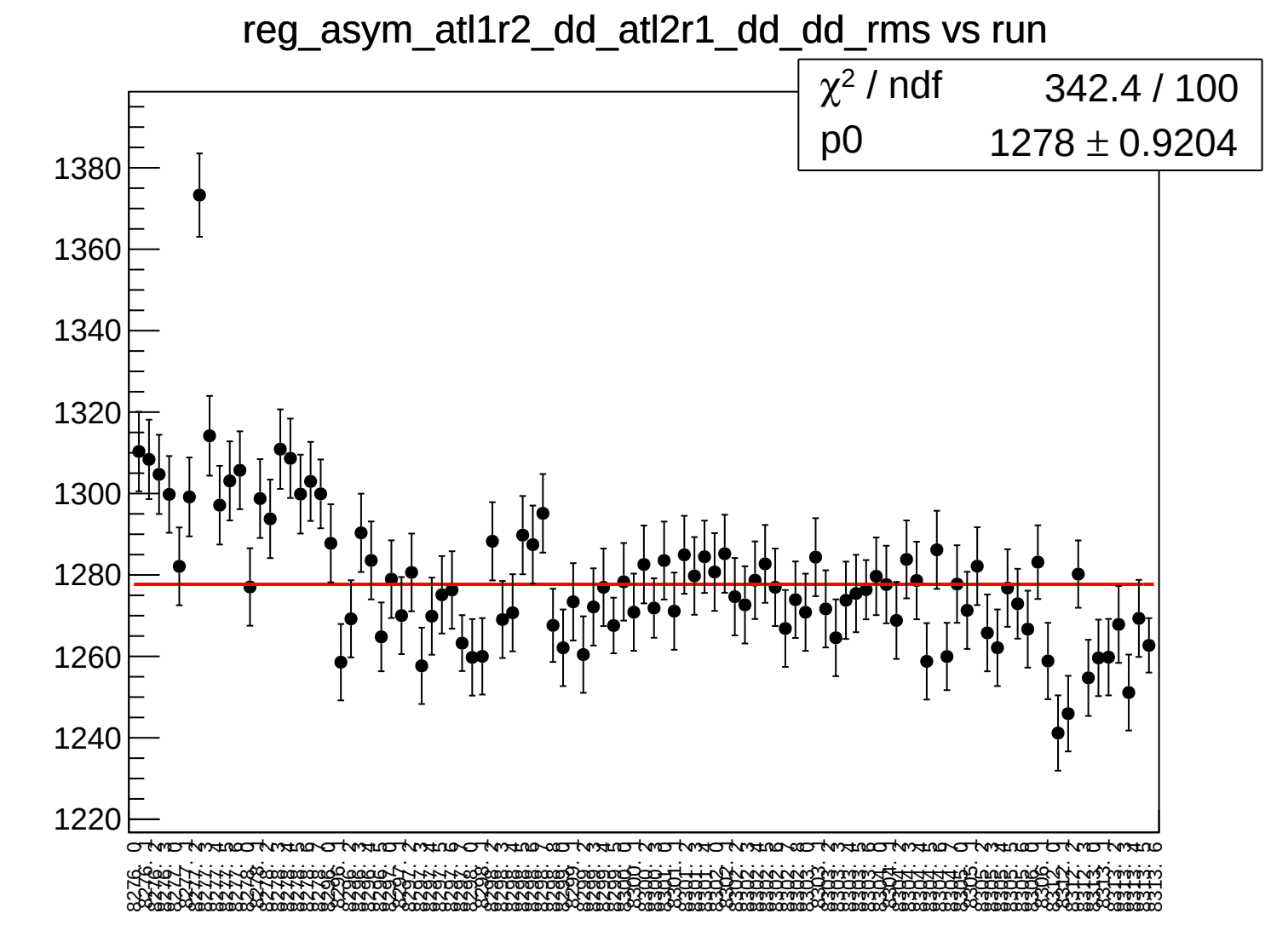

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.54e+04 / 100
p0 130.2 ± 0.09539
350
300
250
200
150
100

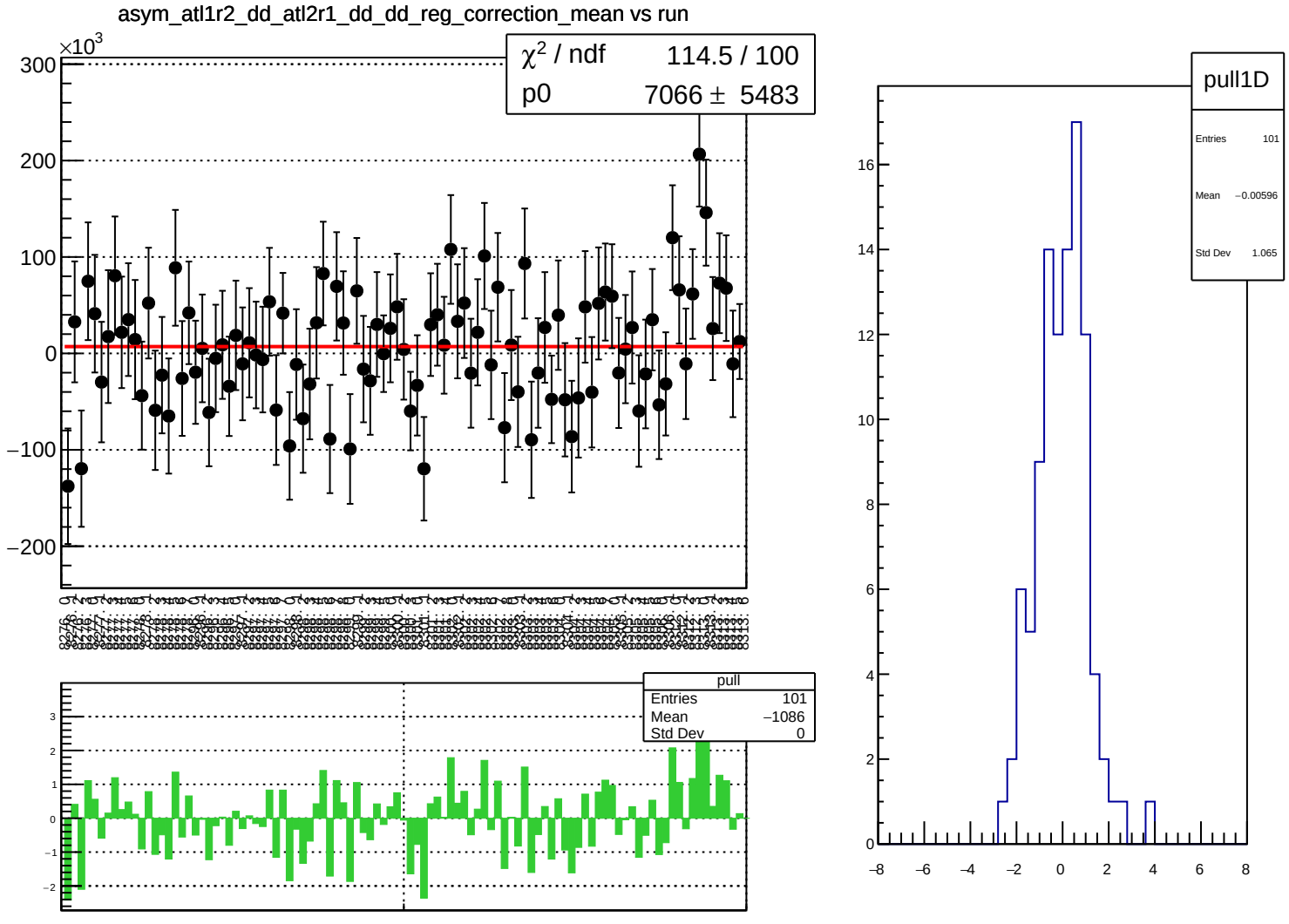

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 117.2 / 100
p0 2.248e−13 ± 3.216e−13
40
20
0
−20
−40
pull
Entries 101
Mean 54.41
Std Dev 37
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.1407
Std Dev 1.068
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

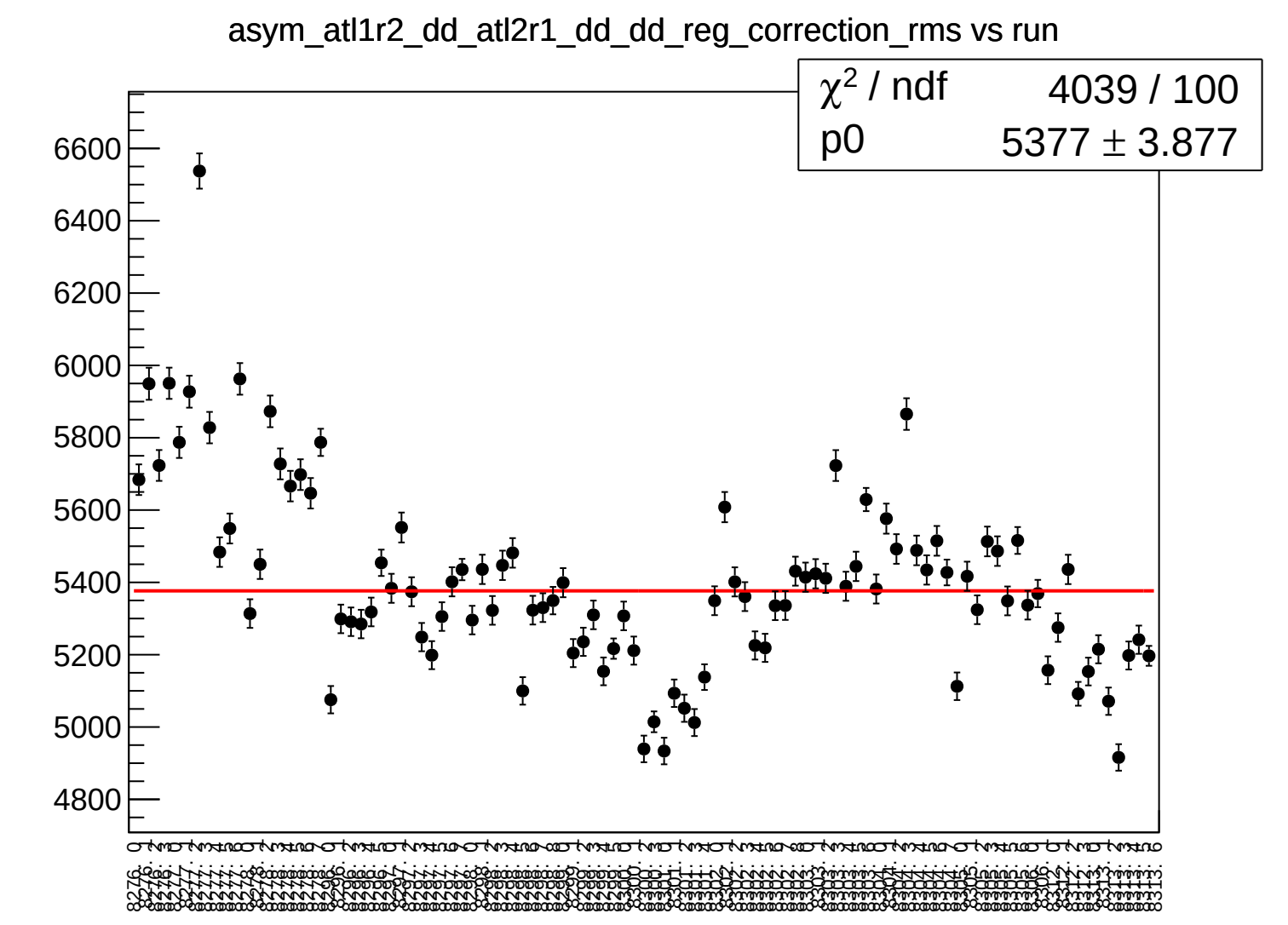

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.963e+05 / 100
p0 2.309e−10 ± 2.274e−13
2.5
2
1.5
1
0.5

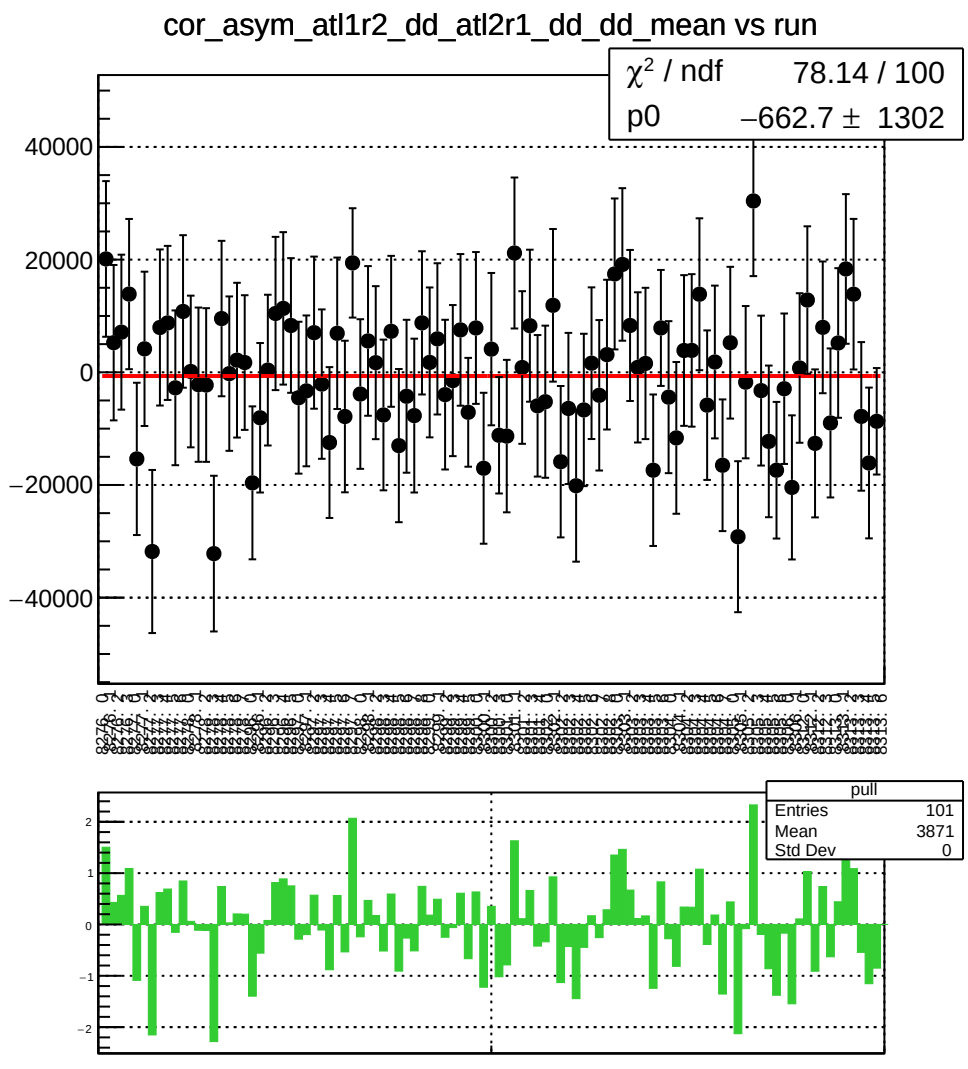

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 78.14 / 100
p0 −663.1± 1302
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 3865
Std Dev 0
2
1
0
−1
−2

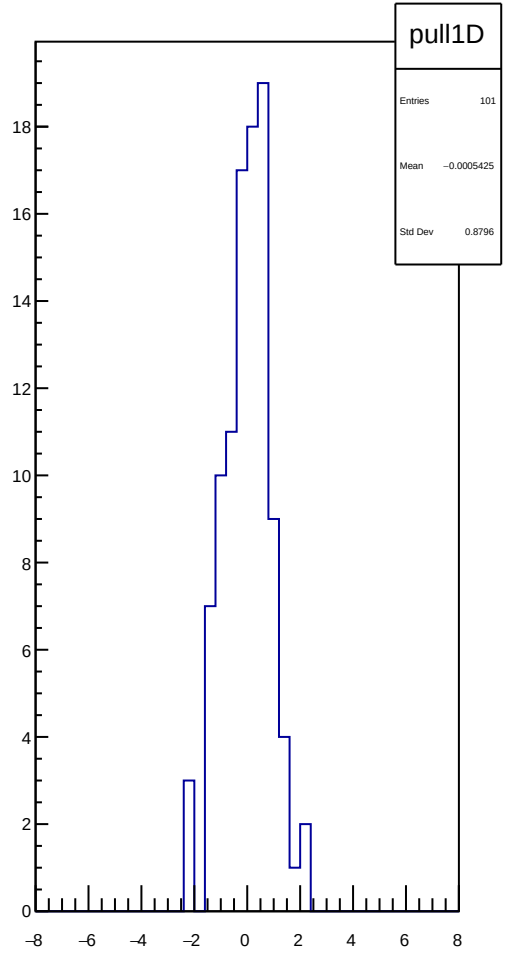

pull1D
Entries 101
Mean −0.0005432
Std Dev 0.8796
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 342.4 / 100
p0 1278 ± 0.9204
1380
1360
1340
1320
1300
1280
1260
1240
1220


asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 114.5 / 100
p0 7066 ± 5483
pull
Entries 101
Mean −1086
Std Dev 0
pull1D
Entries 101
Mean −0.00596
Std Dev 1.065


asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 4039 / 100
p0 5377 ± 3.877
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800


cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 78.14 / 100
p0 −662.7 ± 1302
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 3871
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 101
Mean −0.0005425
Std Dev 0.8796
18
16
14
12
10
8
6
4
2
0
−8
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−4
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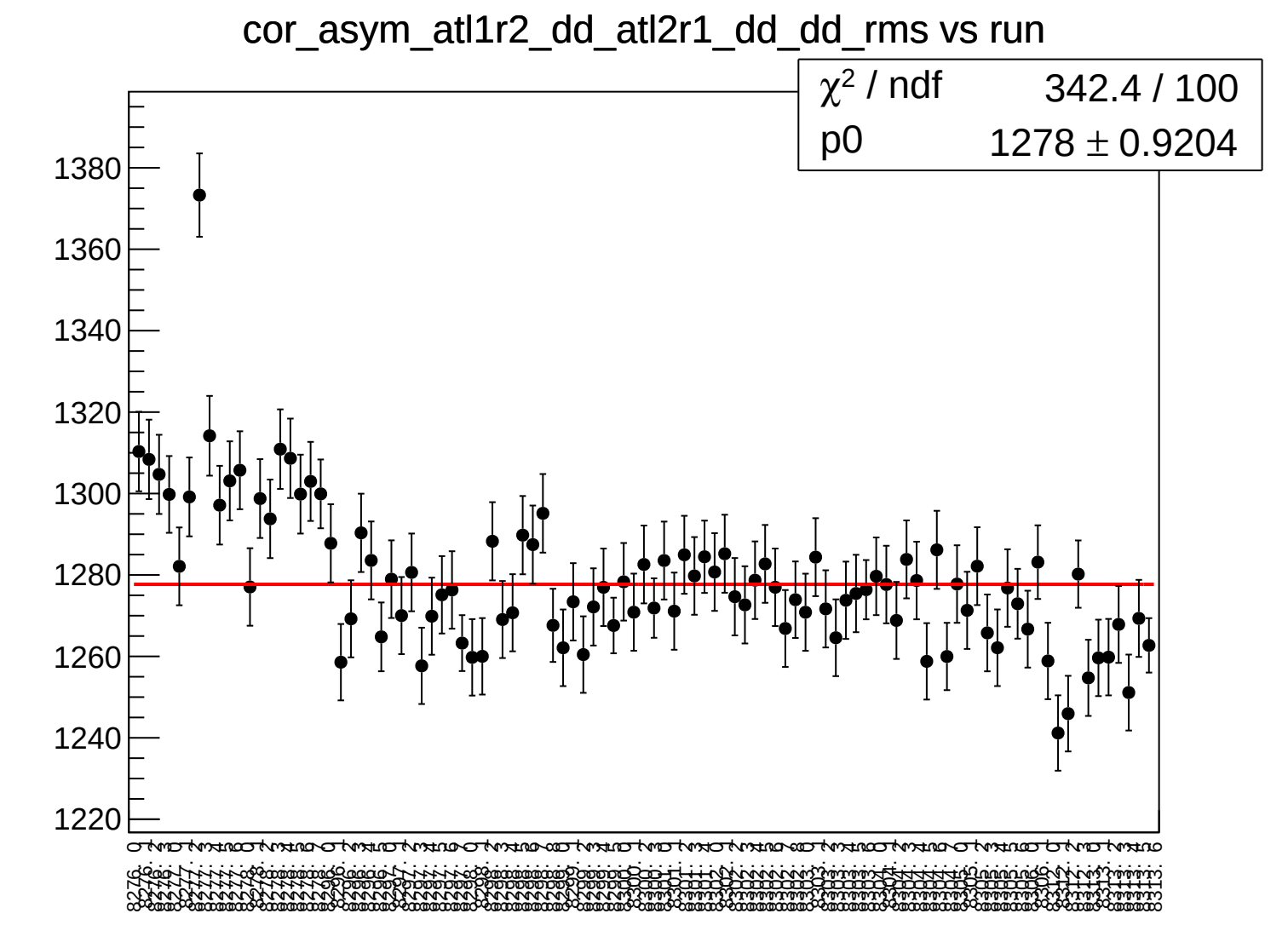
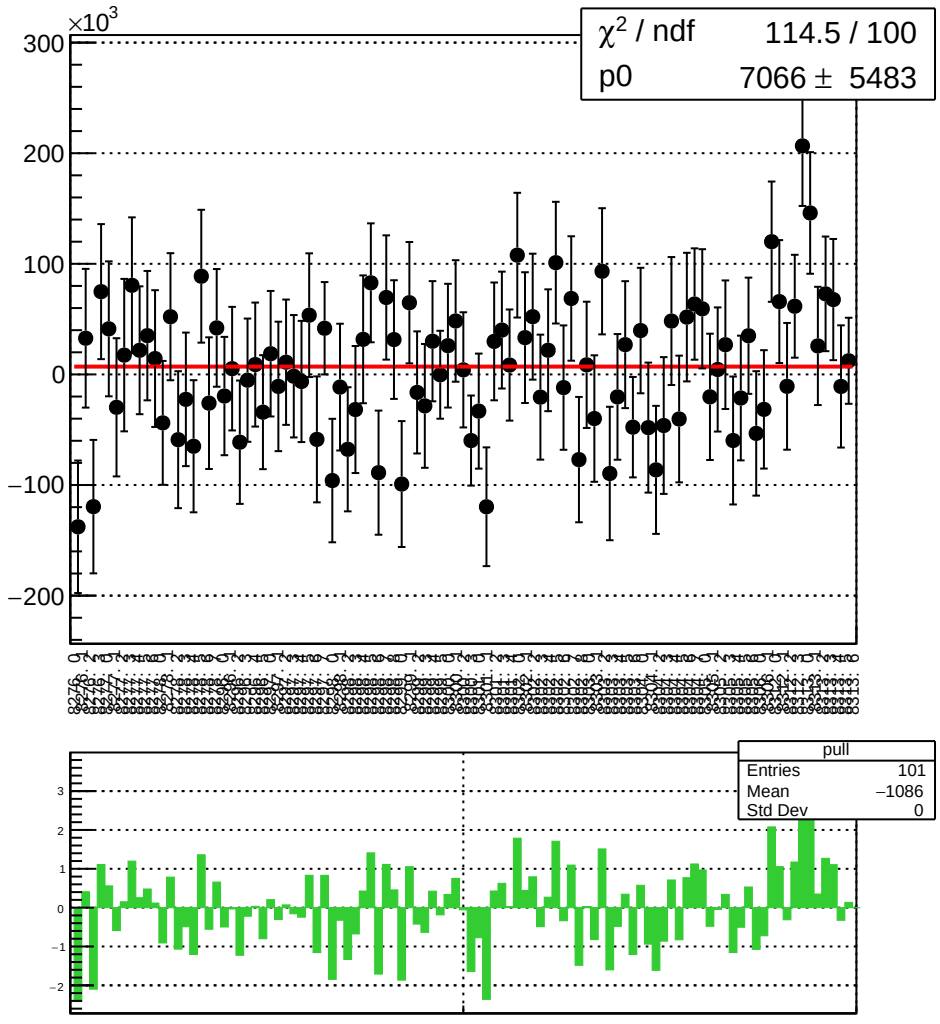
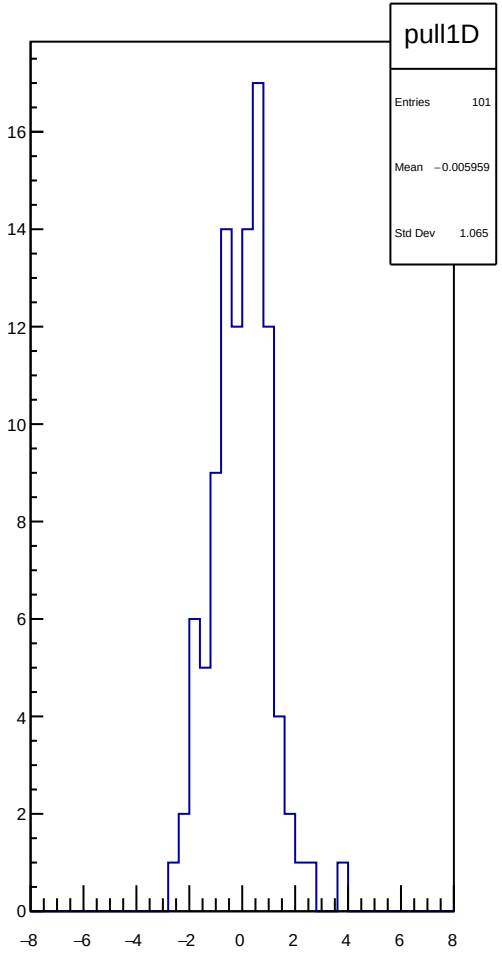
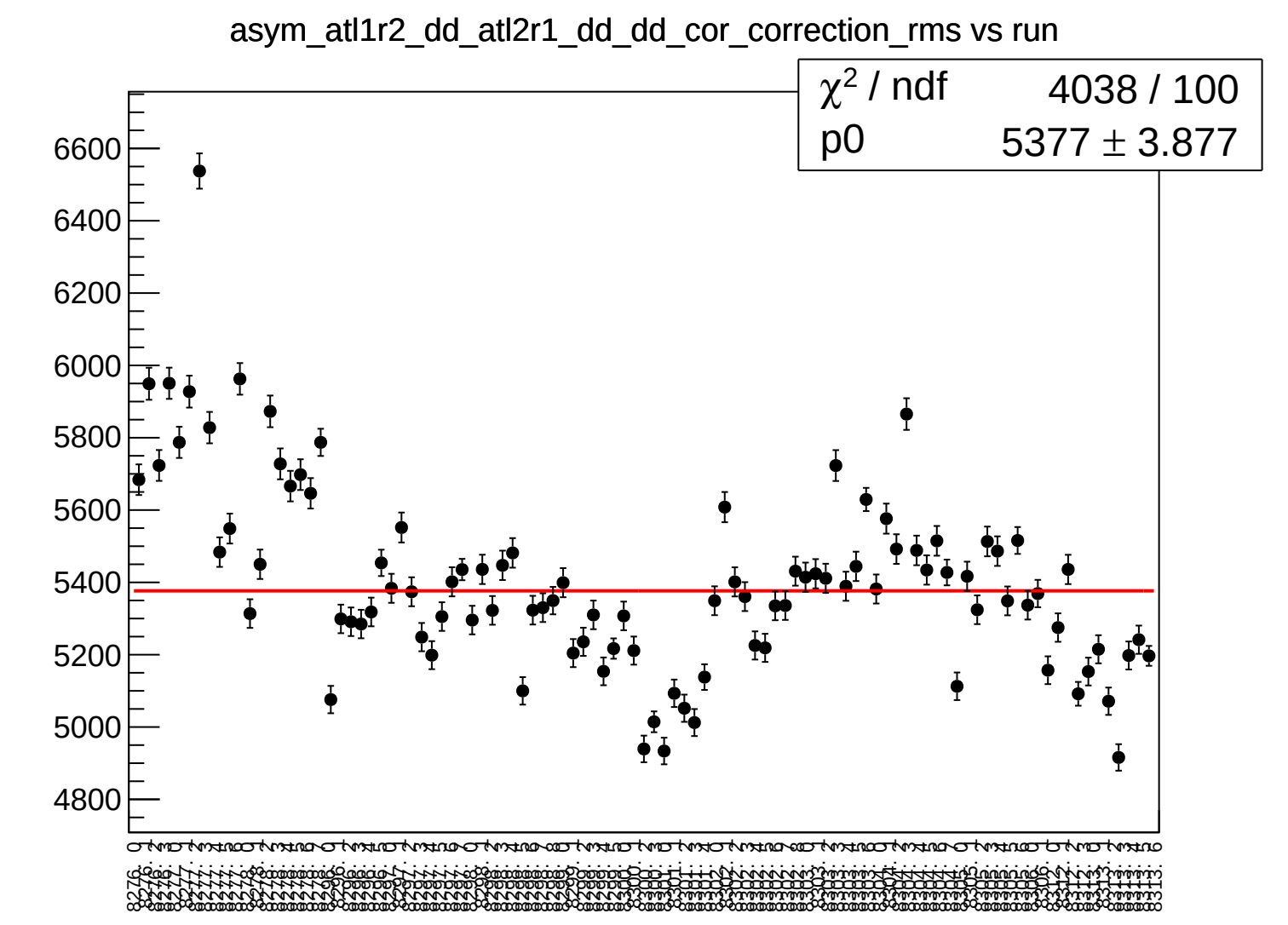
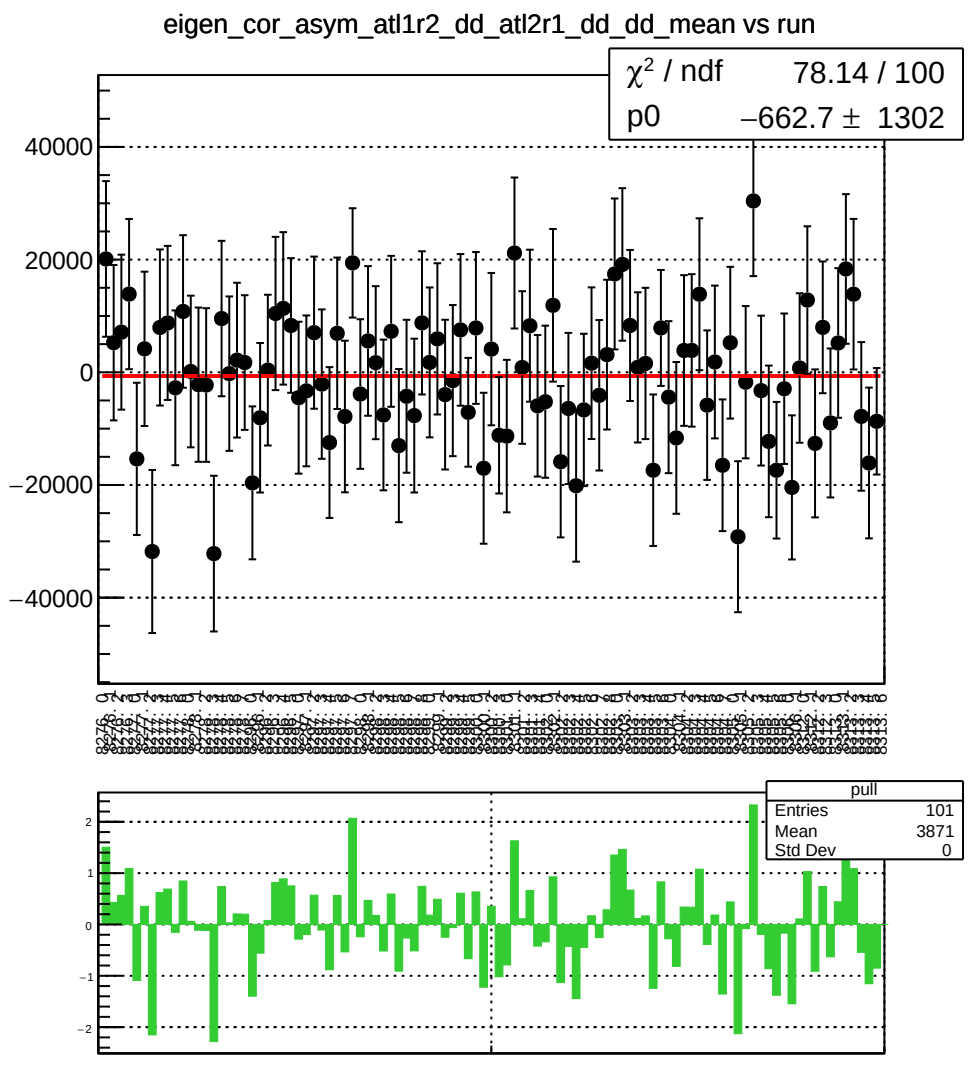
0
2
4
6
8

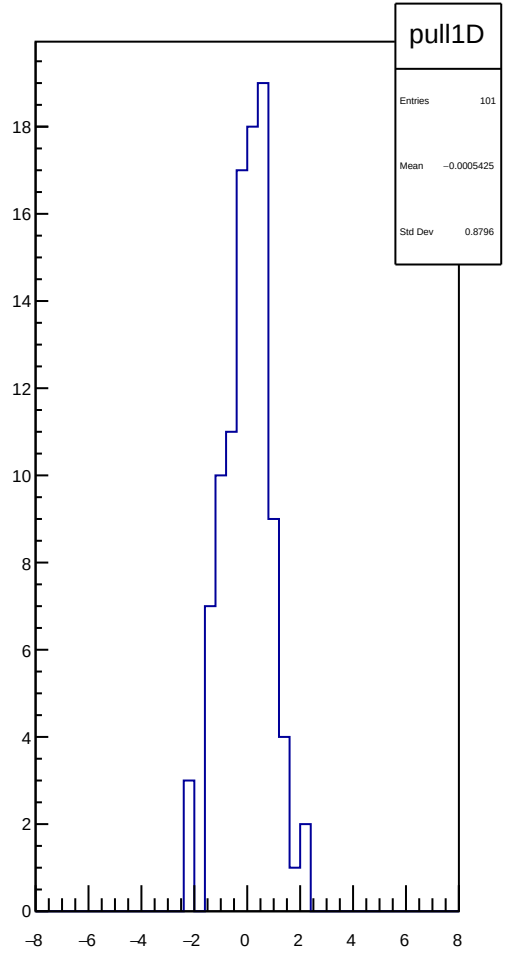

cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 342.4 / 100
p0 1278 ± 0.9204
1380
1360
1340
1320
1300
1280
1260
1240
1220

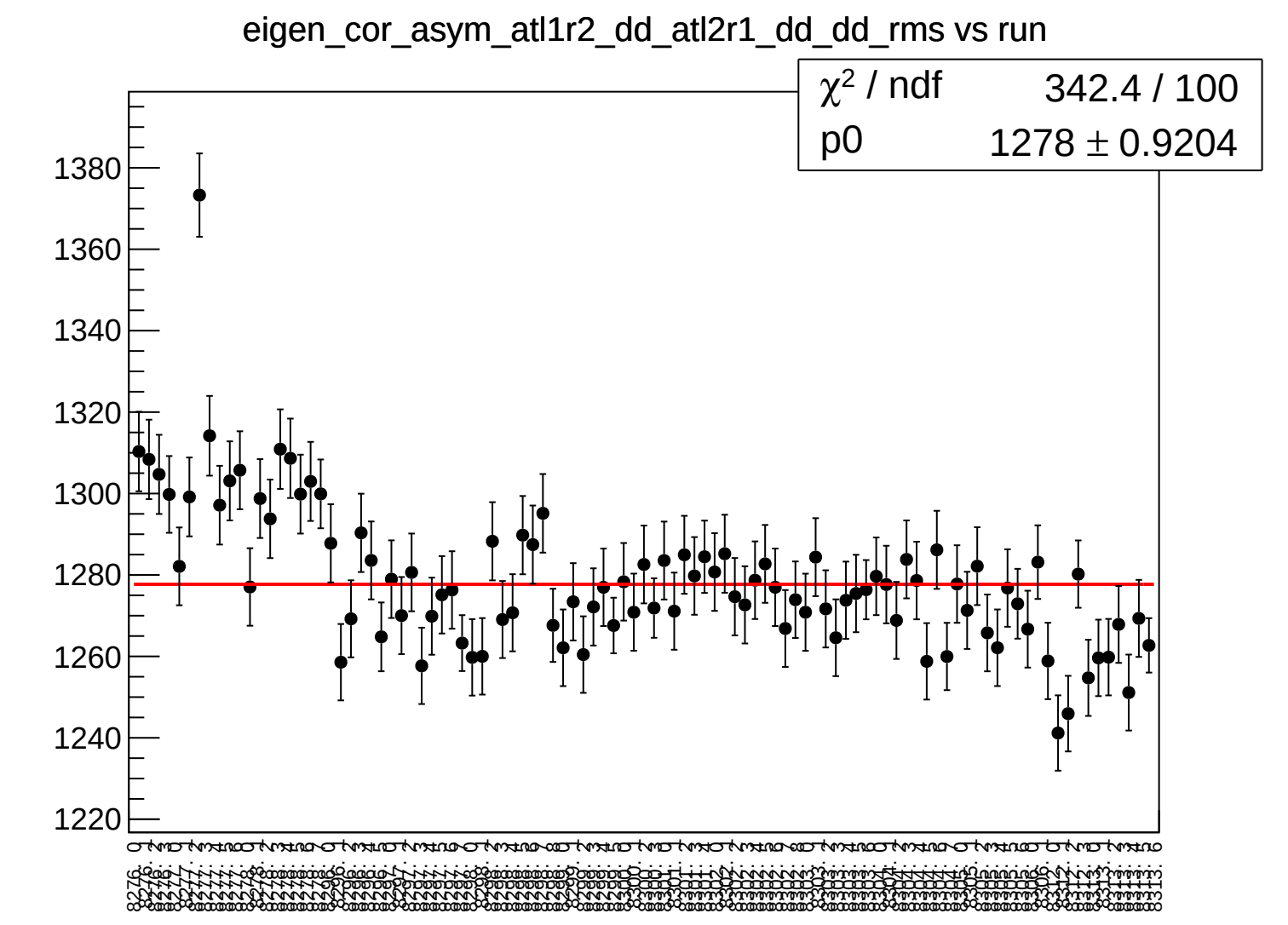

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
×10^3
χ² / ndf 114.5 / 100
p0 7066 ± 5483
pull
Entries 101
Mean −1086
Std Dev 0

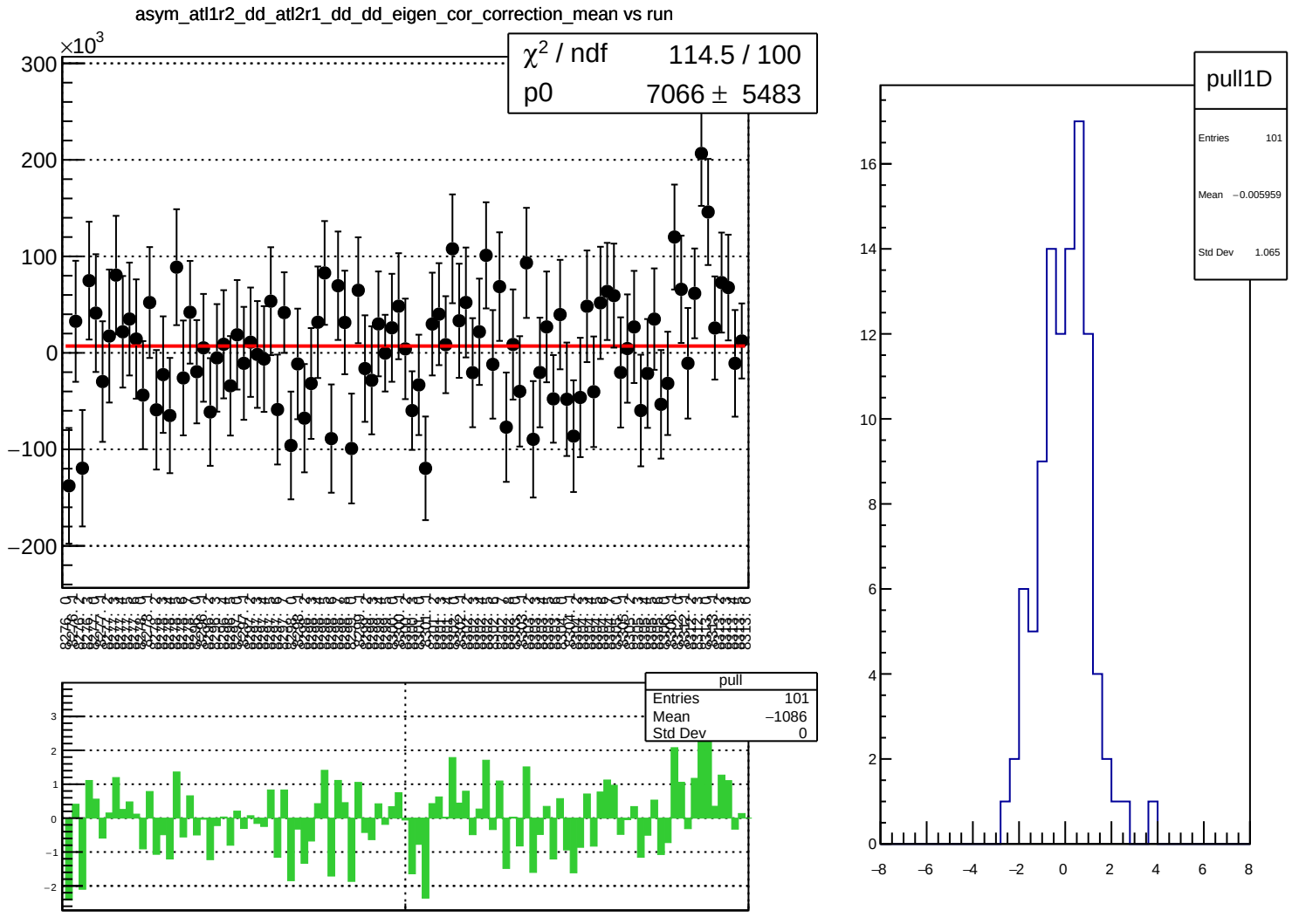

pull1D
Entries 101
Mean −0.005959
Std Dev 1.065

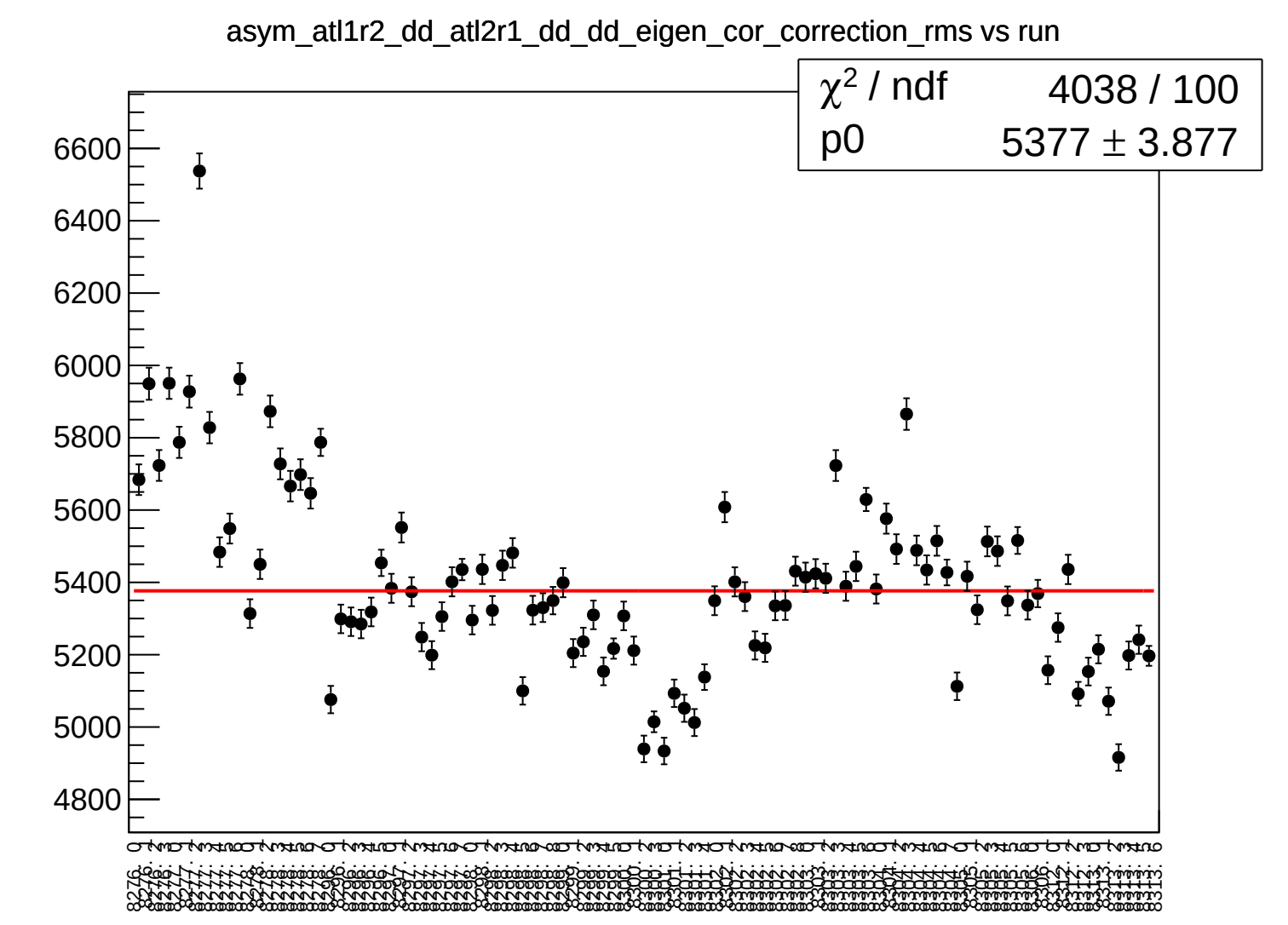

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 4038 / 100
p0 5377 ± 3.877
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800

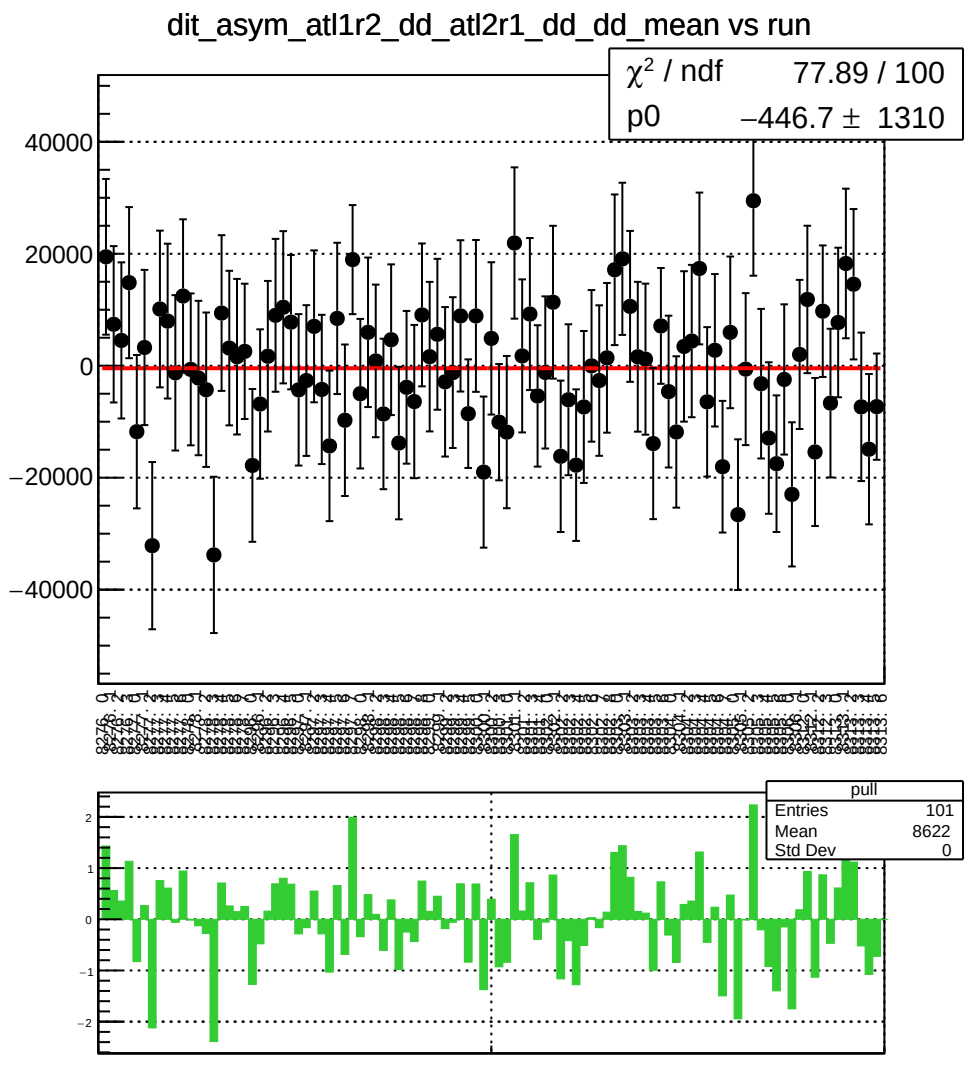

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 78.14 / 100
p0 −662.7 ± 1302
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 3871
Std Dev 0
2
1
0
−1
−2

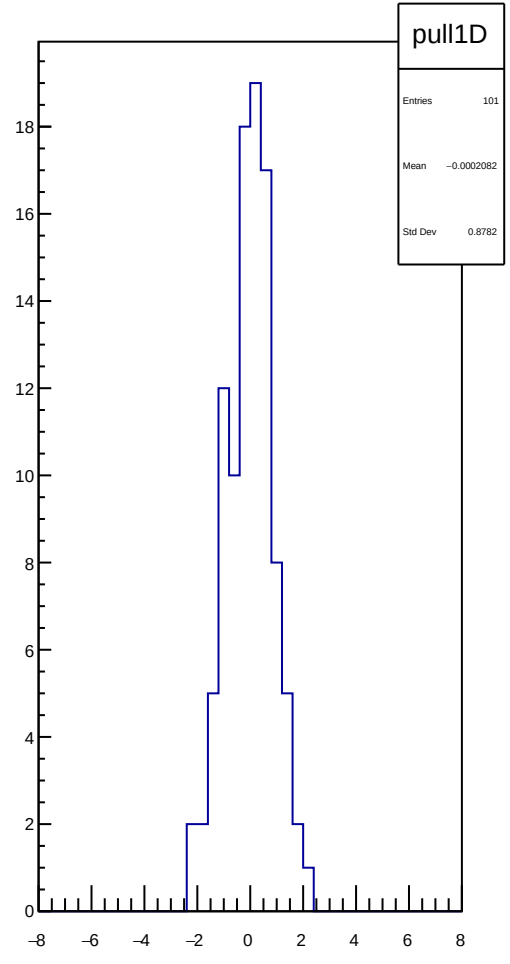

pull1D
Entries 101
Mean −0.0005425
Std Dev 0.8796
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

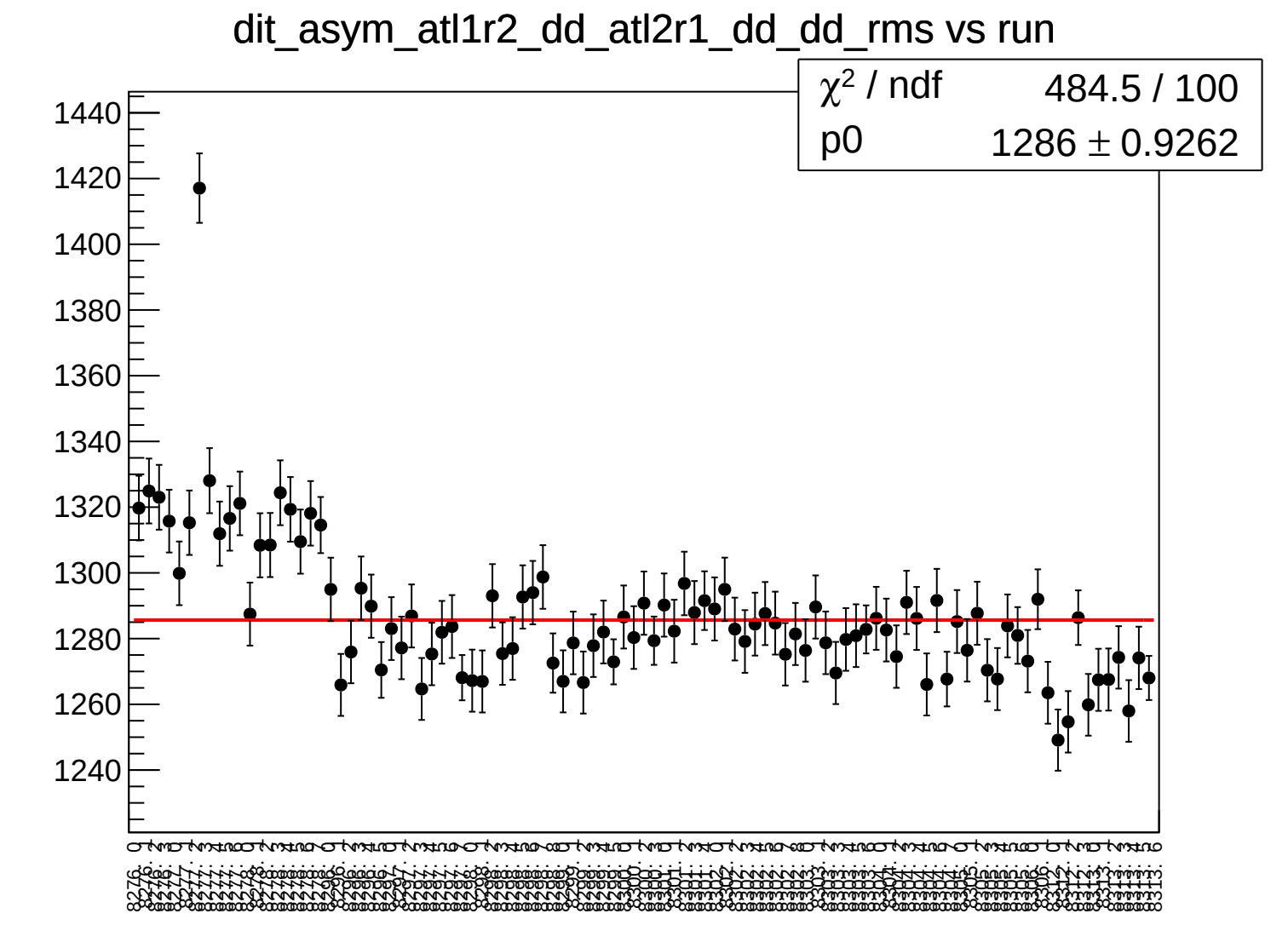

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 342.4 / 100
p0 1278 ± 0.9204
1380
1360
1340
1320
1300
1280
1260
1240
1220

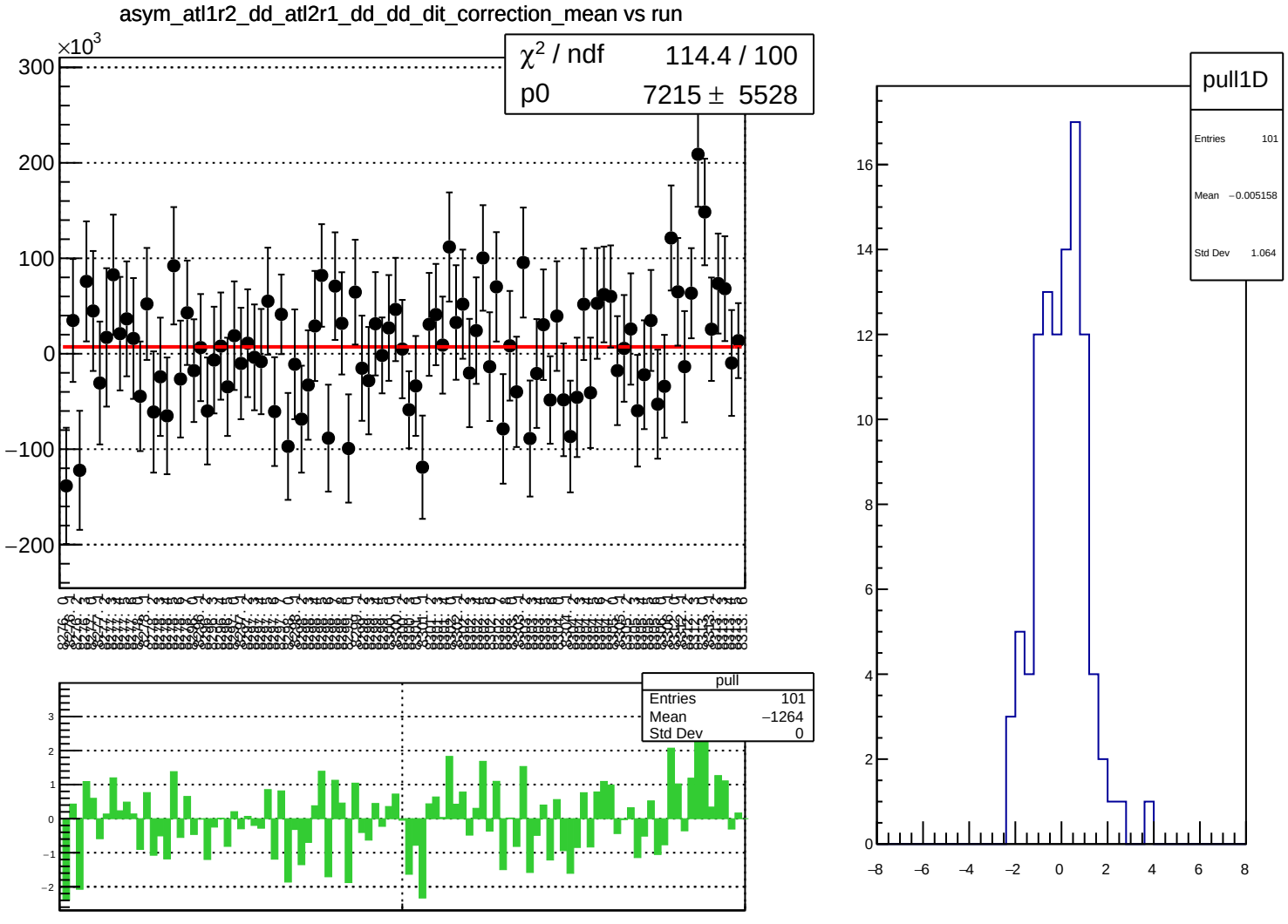

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 114.5 / 100
p0 7066 ± 5483
300
200
100
0
−100
−200
pull
Entries 101
Mean −1086
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.005959
Std Dev 1.065
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

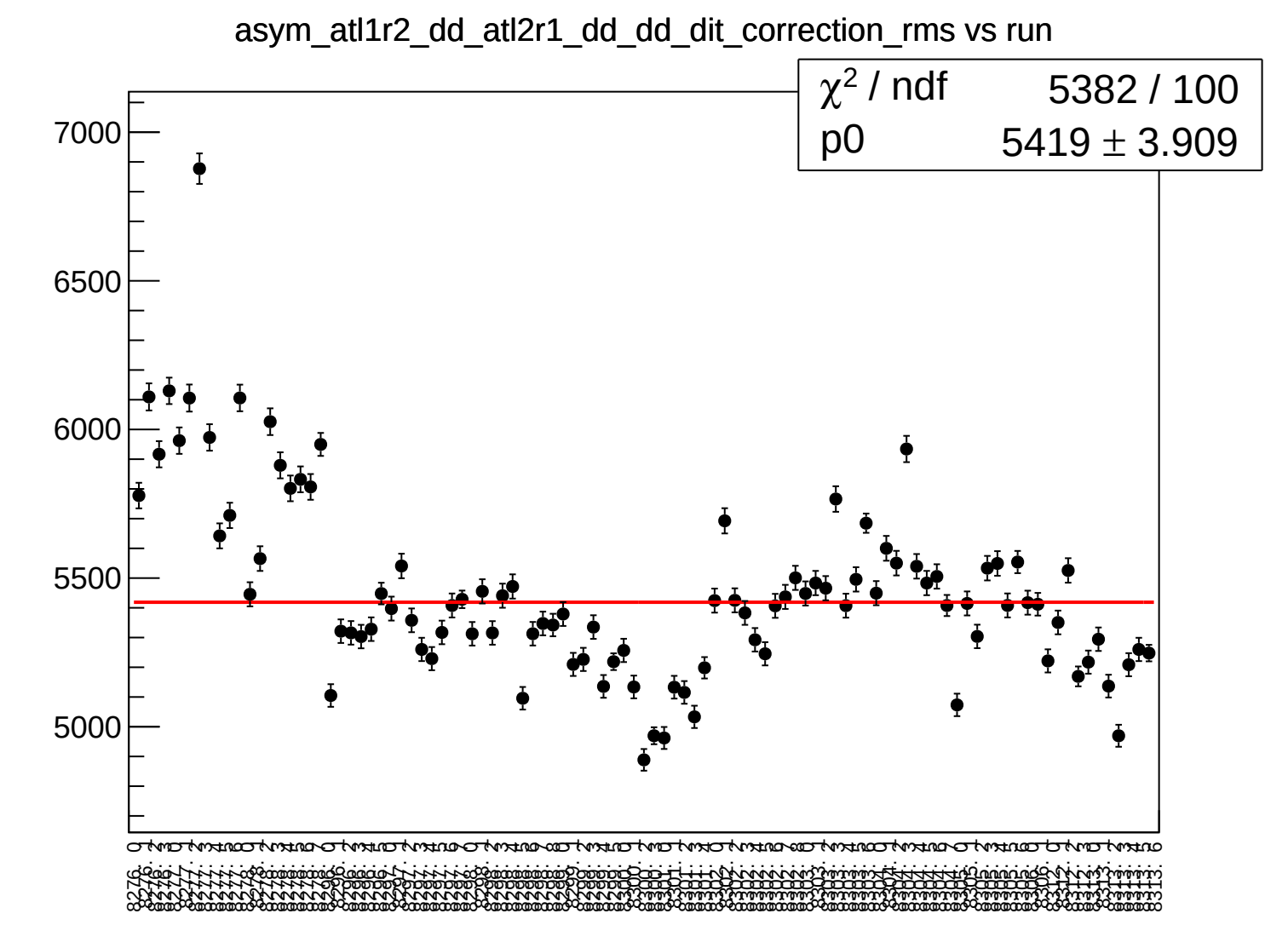

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 4038 / 100
p0 5377 ± 3.877
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800

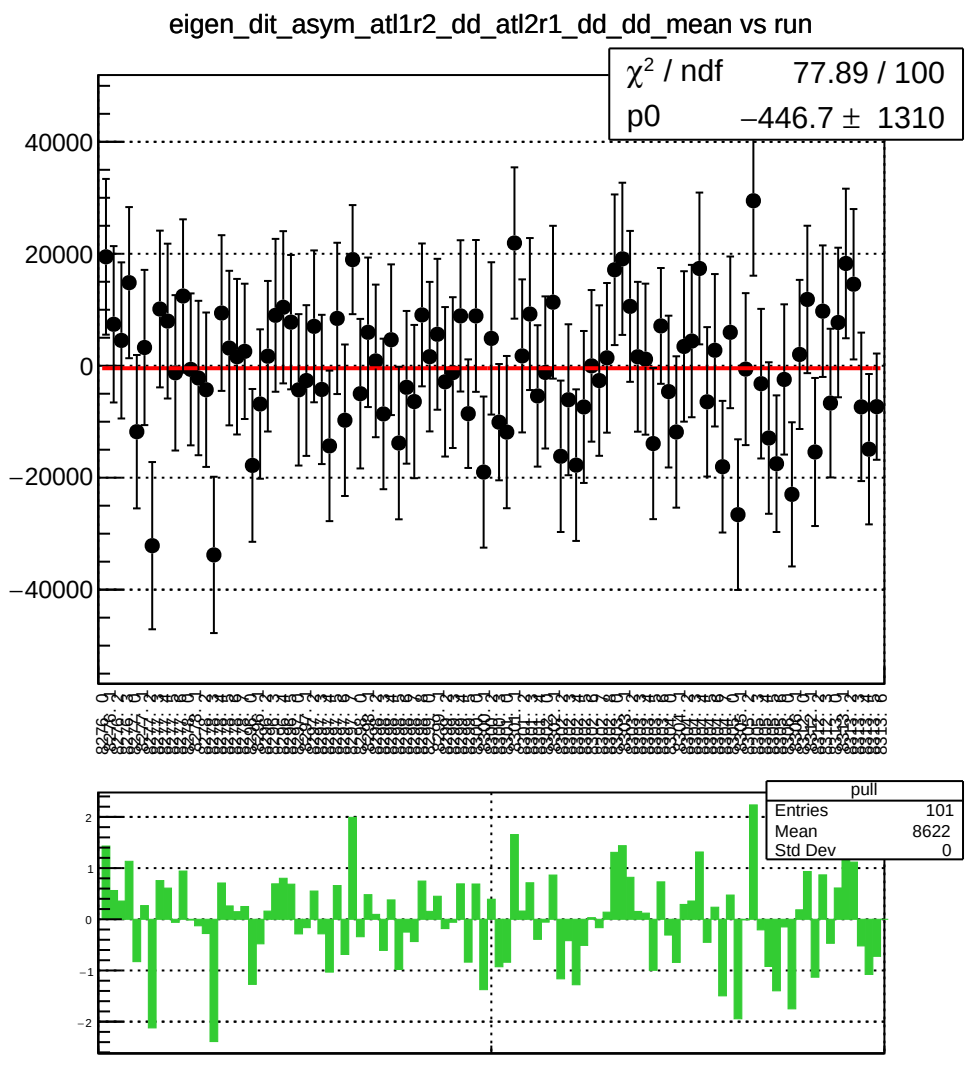

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 77.89 / 100
p0 −446.7 ± 1310
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 8622
Std Dev 0
2
1
0
−1
−2

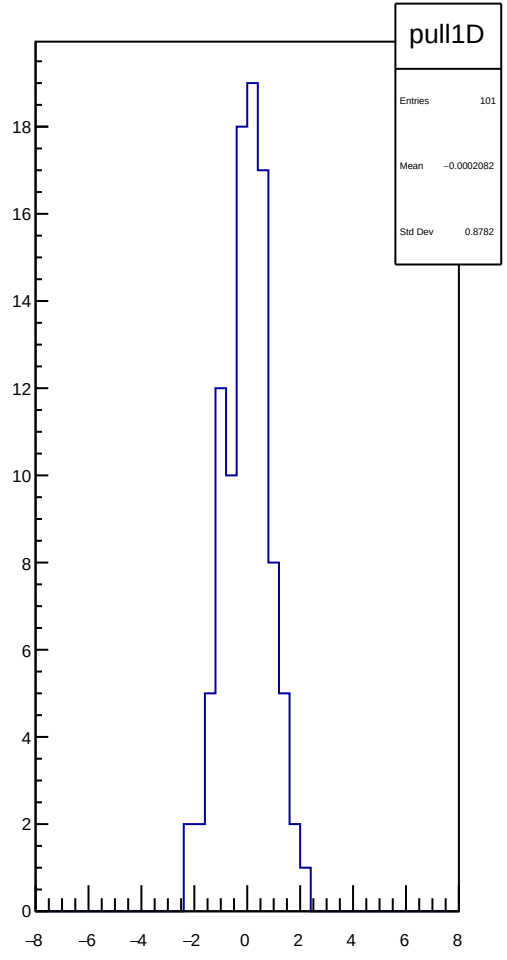

pull1D
Entries 101
Mean −0.0002082
Std Dev 0.8782
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

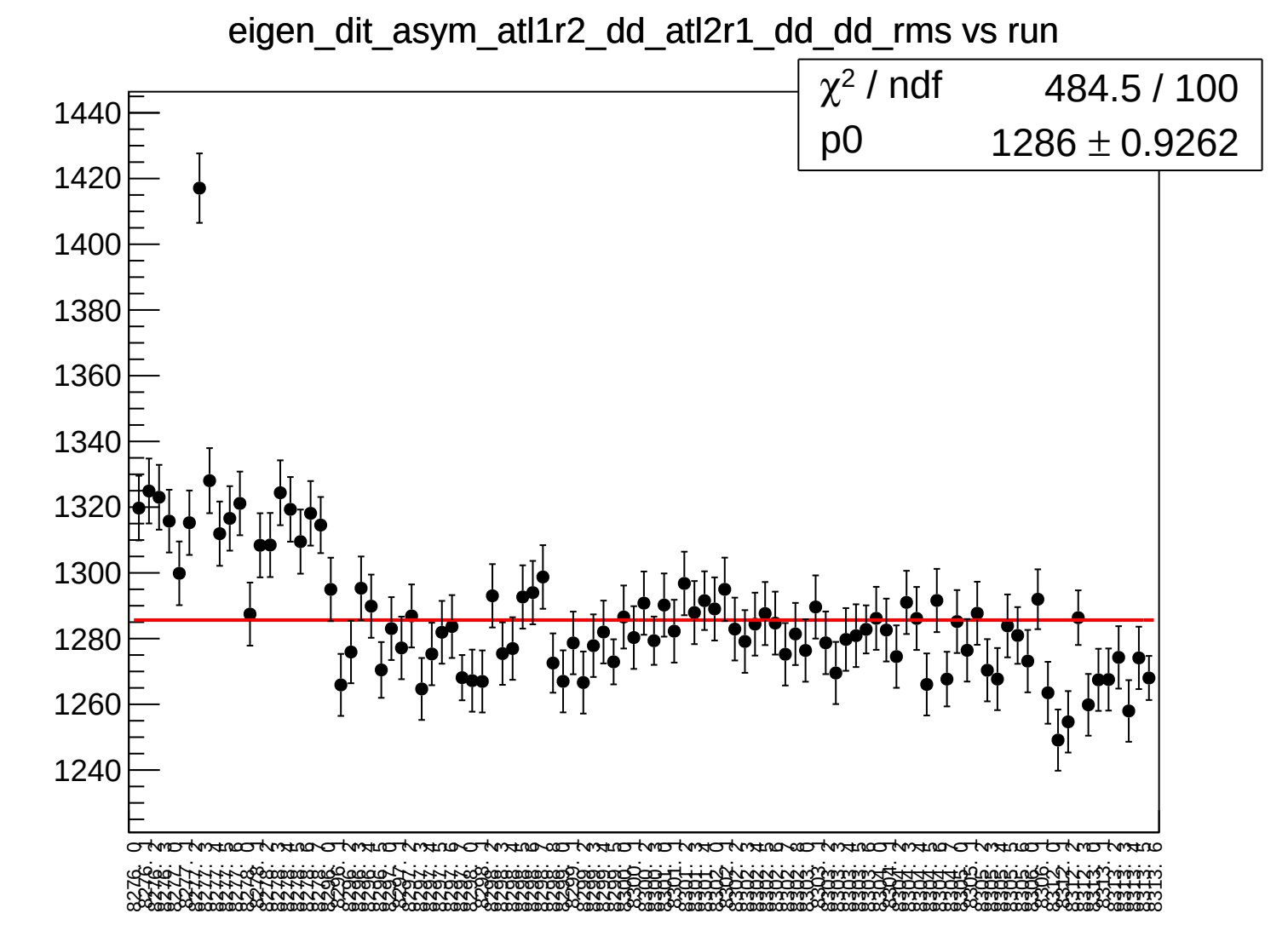

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 484.5 / 100
p0 1286 ± 0.9262
1440
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240

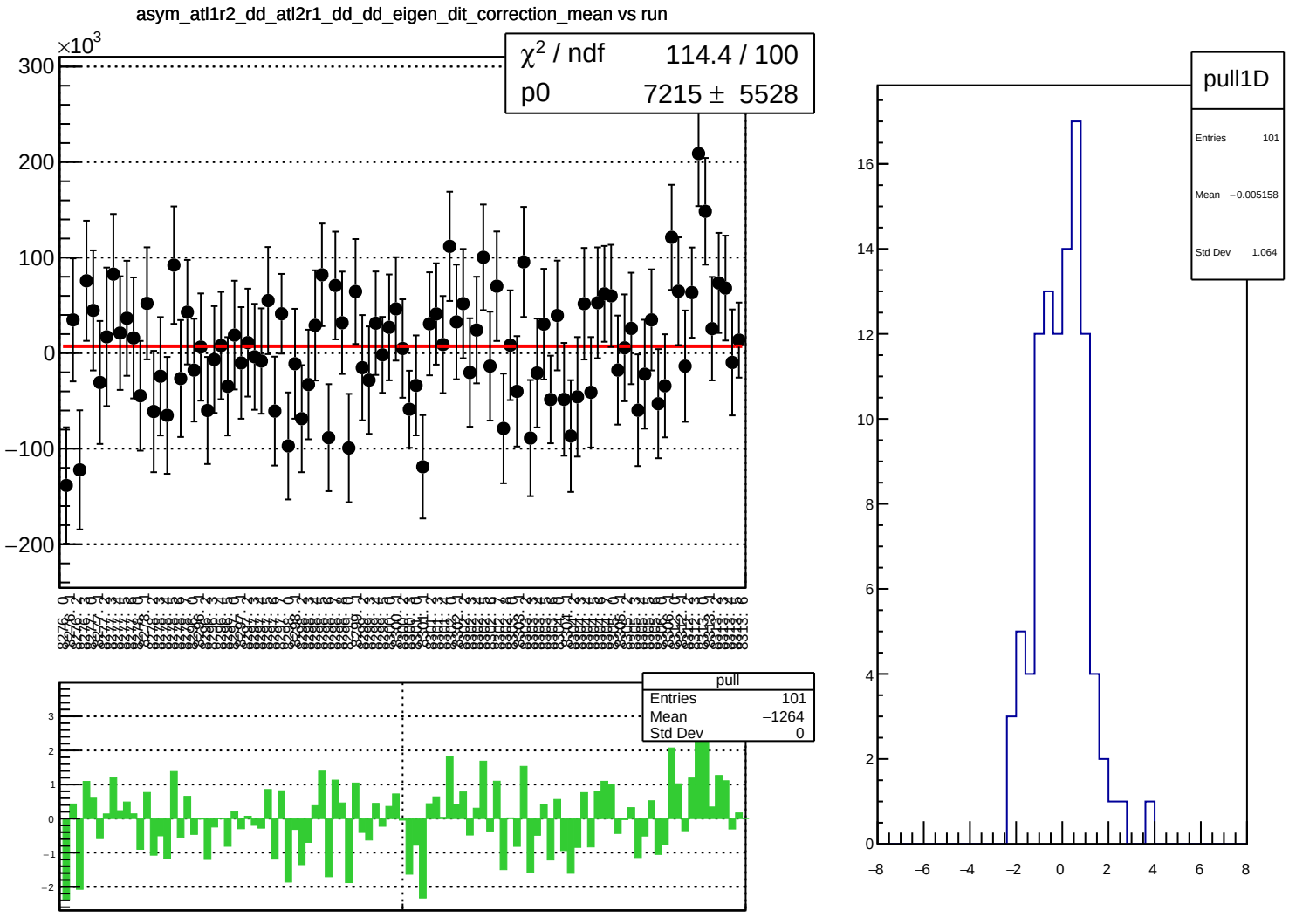

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 114.4 / 100
p0 7215 ± 5528
pull
Entries 101
Mean −1264
Std Dev 0
pull1D
Entries 101
Mean −0.005158
Std Dev 1.064

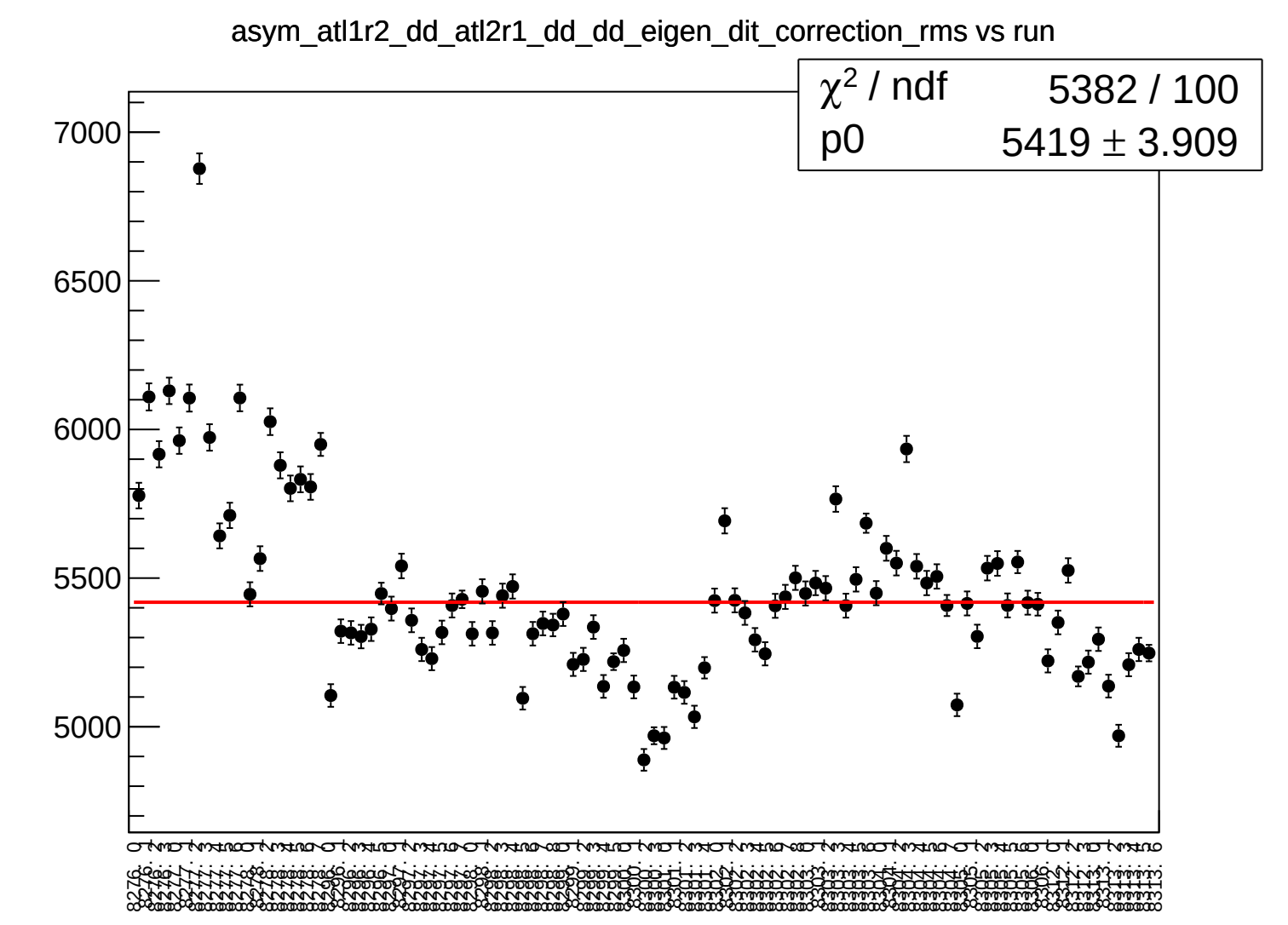

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 5382 / 100
p0 5419 ± 3.909
7000
6500
6000
5500
5000

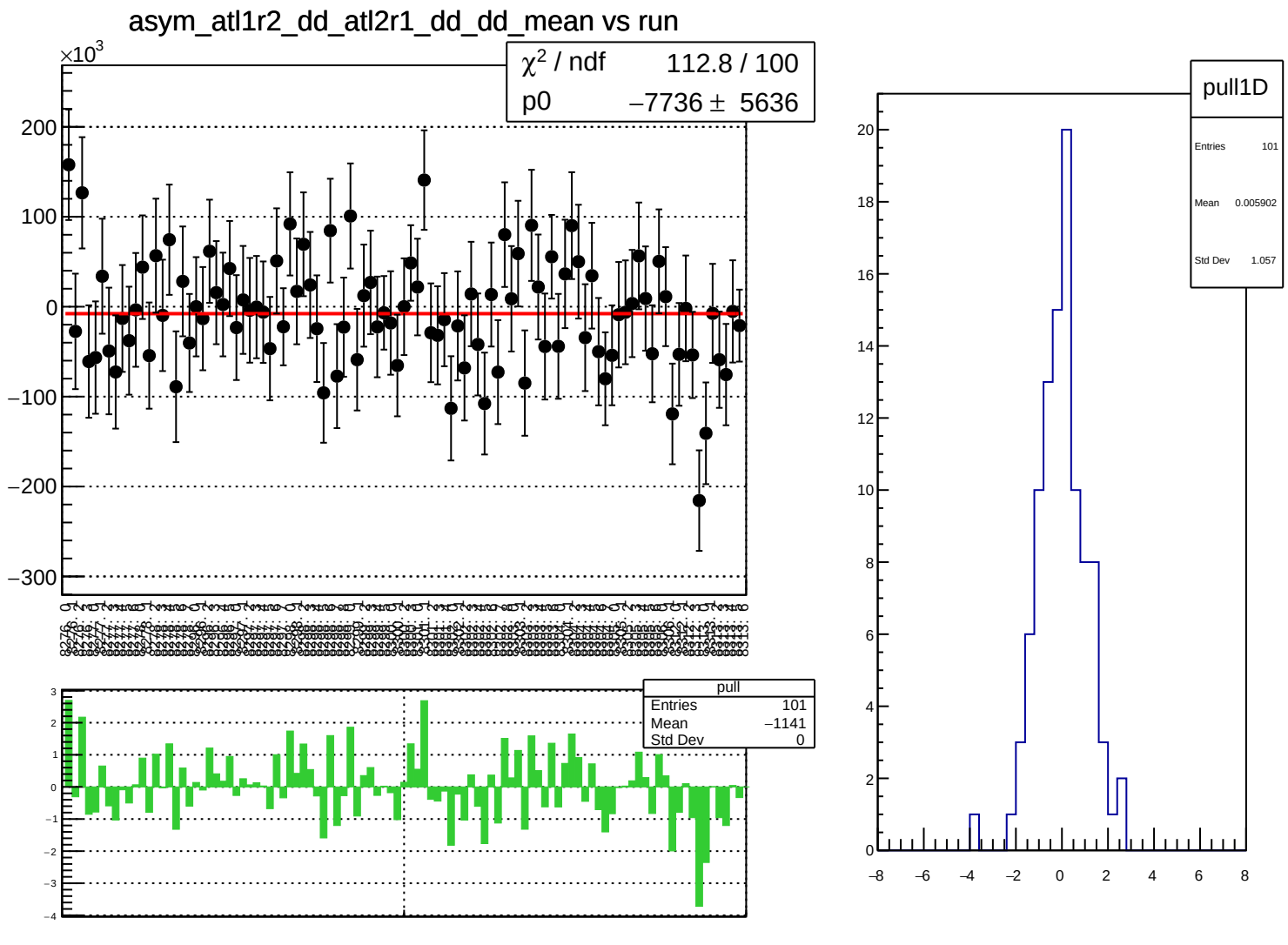

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 77.89 / 100
p0 −446.7 ± 1310
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 8622
Std Dev 0
2
1
0
−1
−2

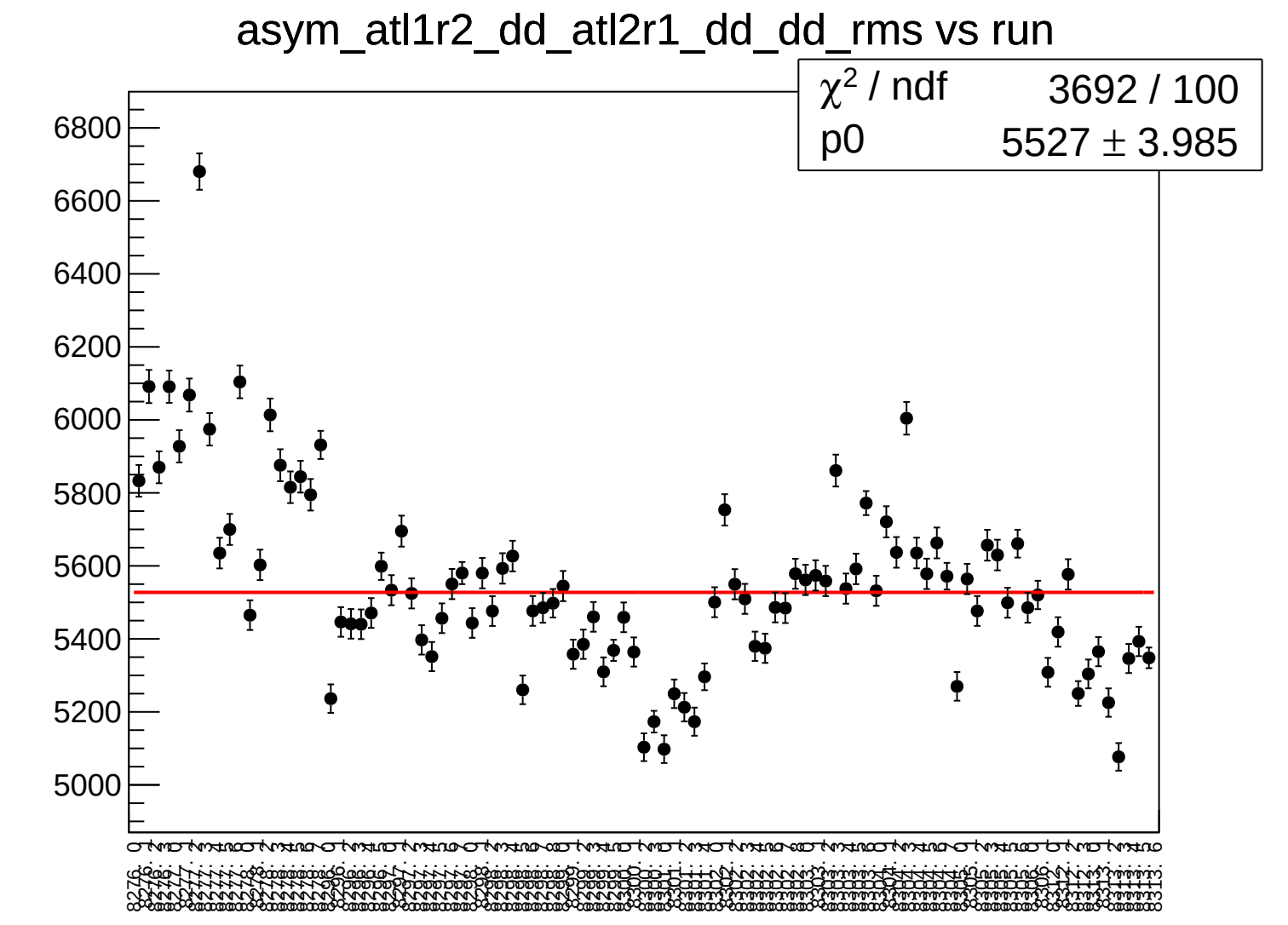

pull1D
Entries 101
Mean −0.0002082
Std Dev 0.8782
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

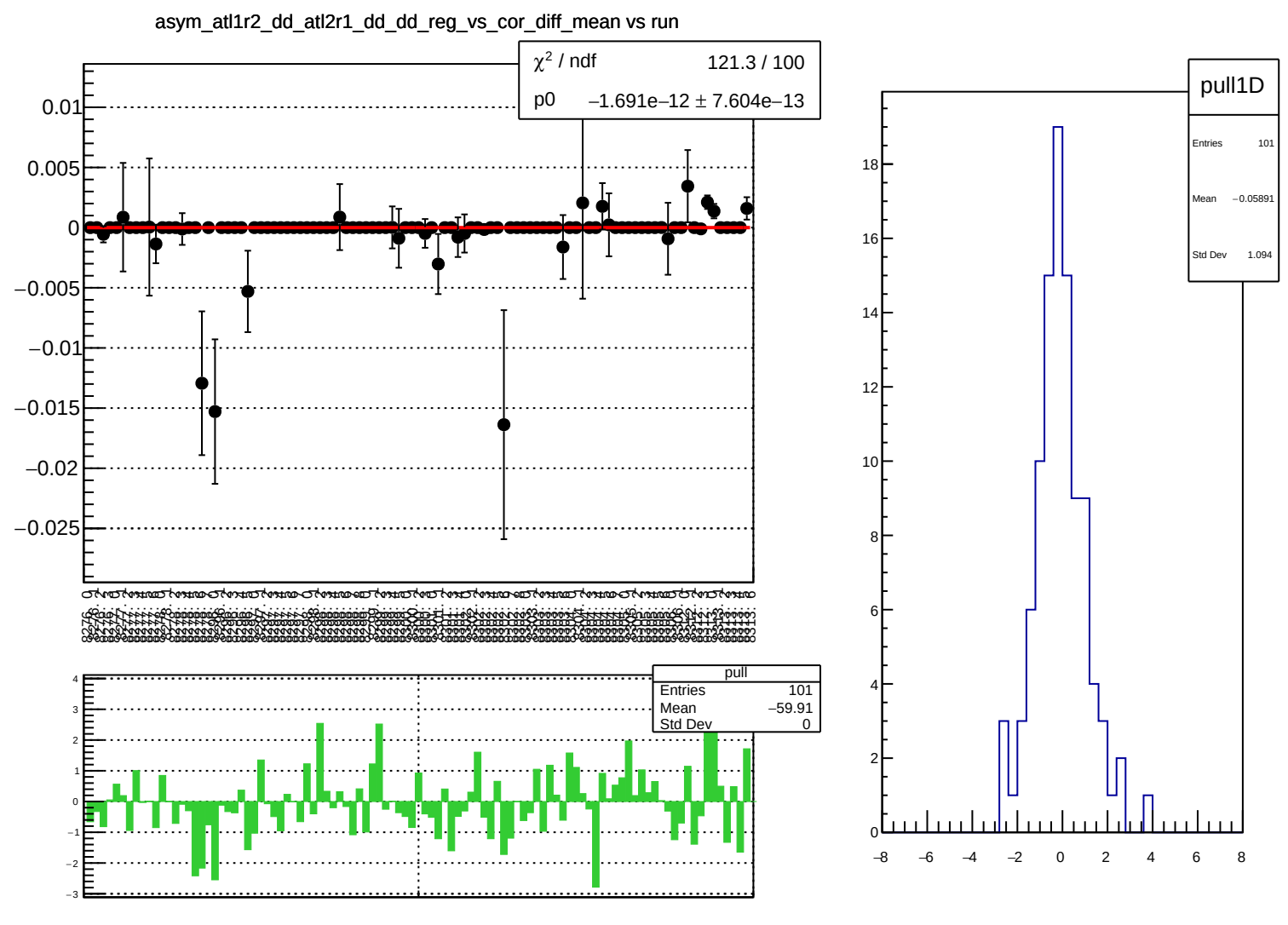

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 484.5 / 100
p0 1286 ± 0.9262
1440
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240

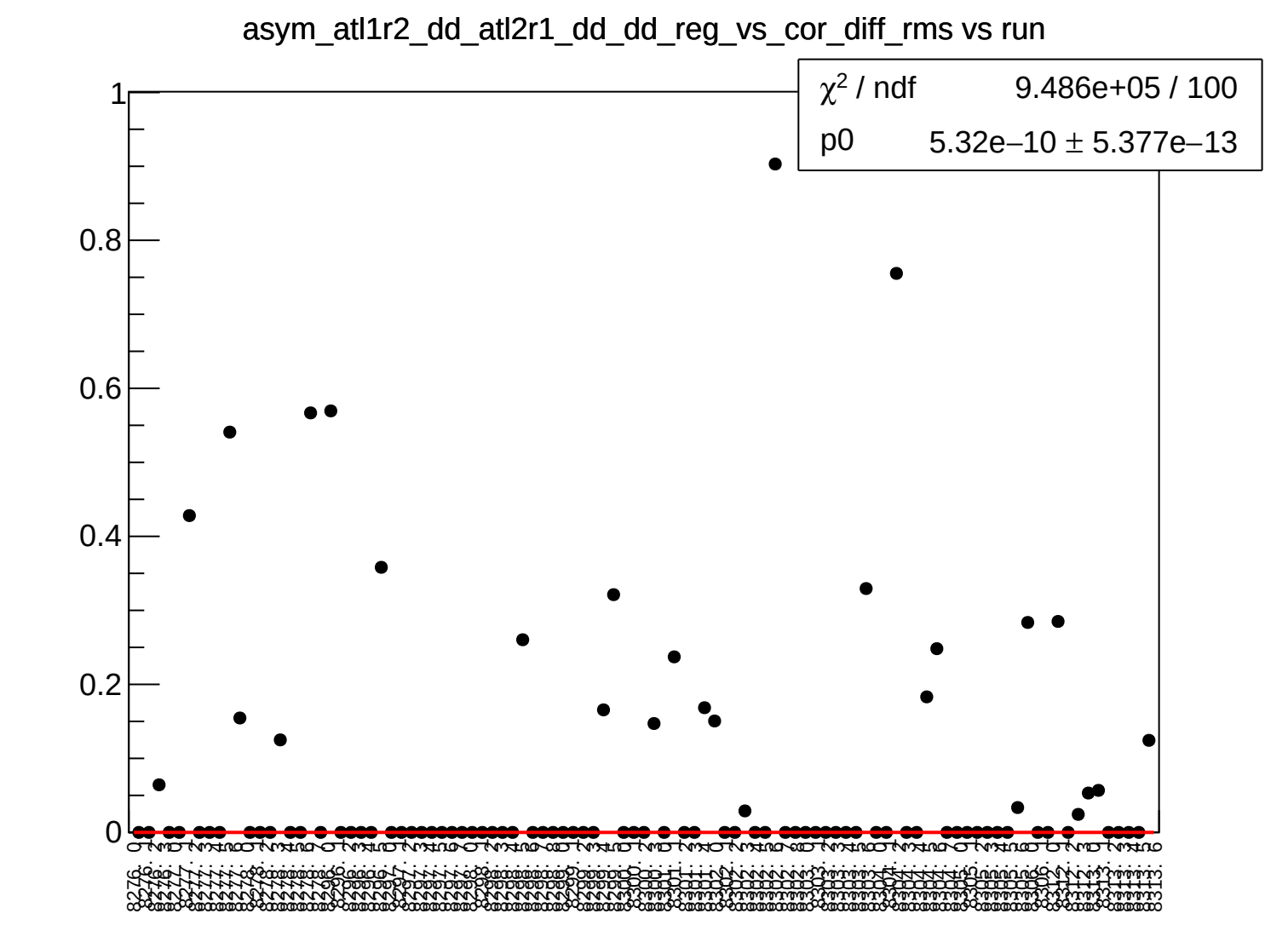

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 114.4 / 100
p0 7215 ± 5528
300
200
100
0
−100
−200
pull
Entries 101
Mean −1264
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.005158
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

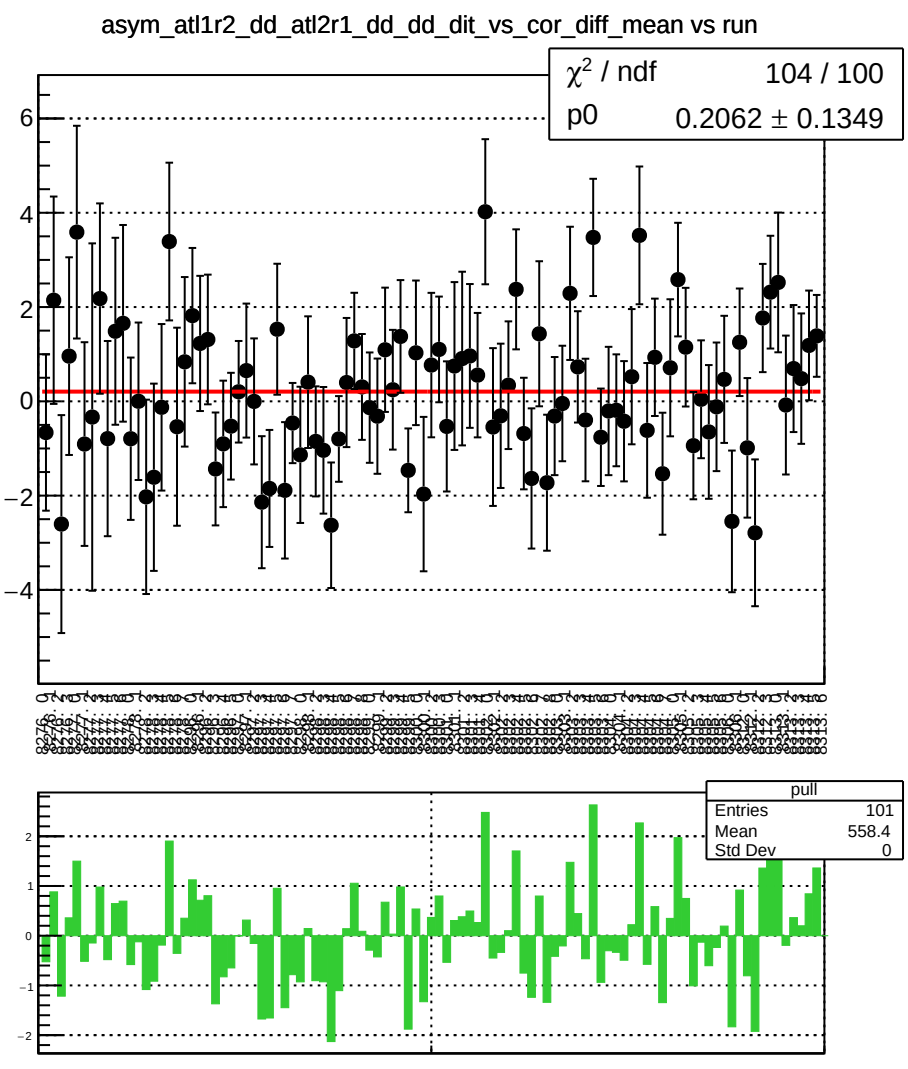

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 5382 / 100
p0 5419 ± 3.909
7000
6500
6000
5500
5000

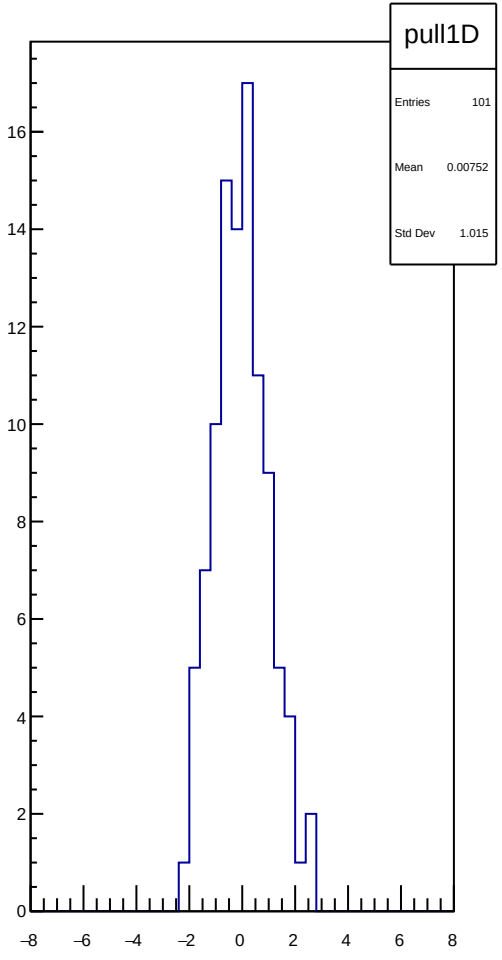

asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ² / ndf 112.8 / 100
p0 −7736 ± 5636
200
100
0
−100
−200
−300
pull
Entries 101
Mean −1141
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 101
Mean 0.005902
Std Dev 1.057
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

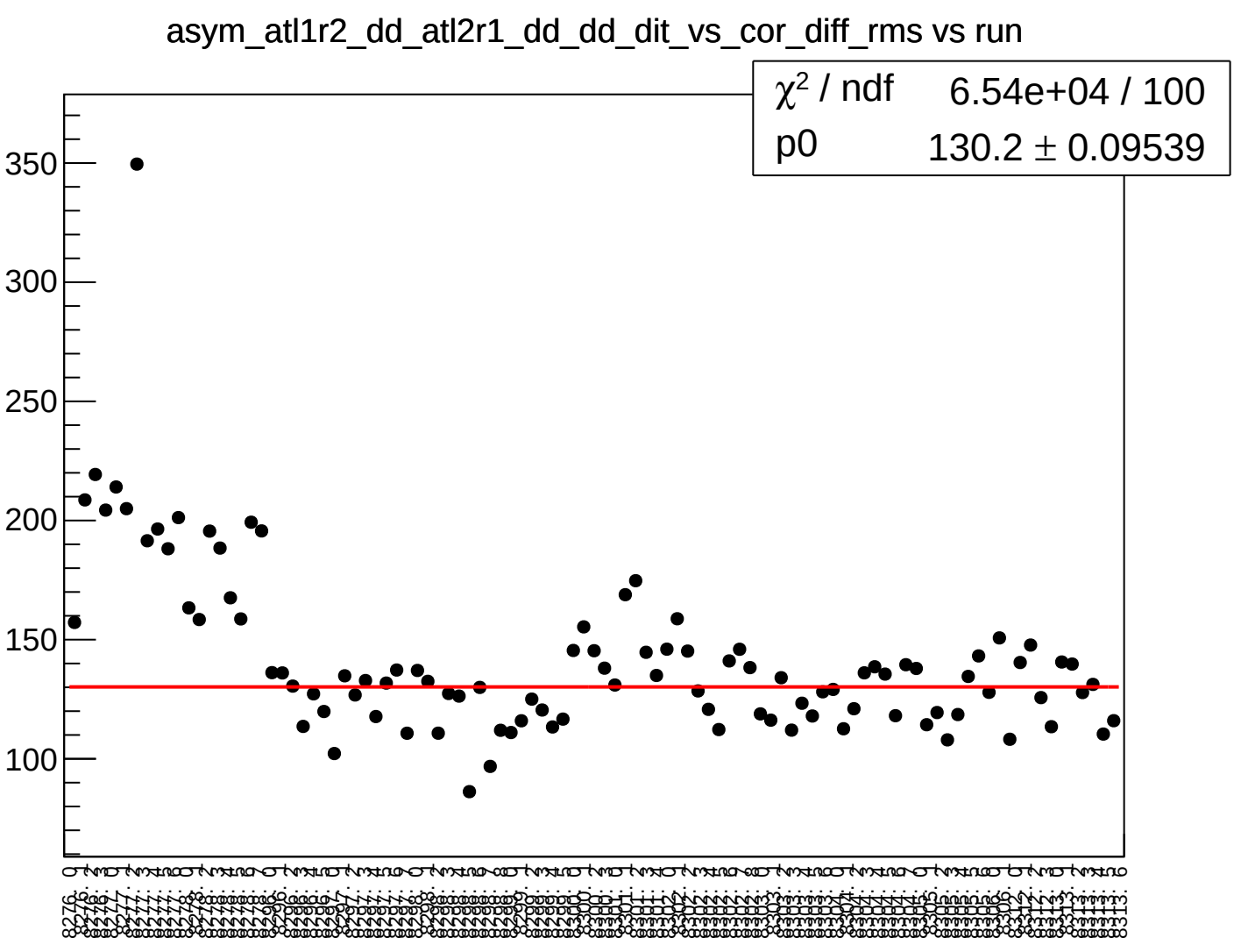

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 3692 / 100
p0 5527 ± 3.985
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000

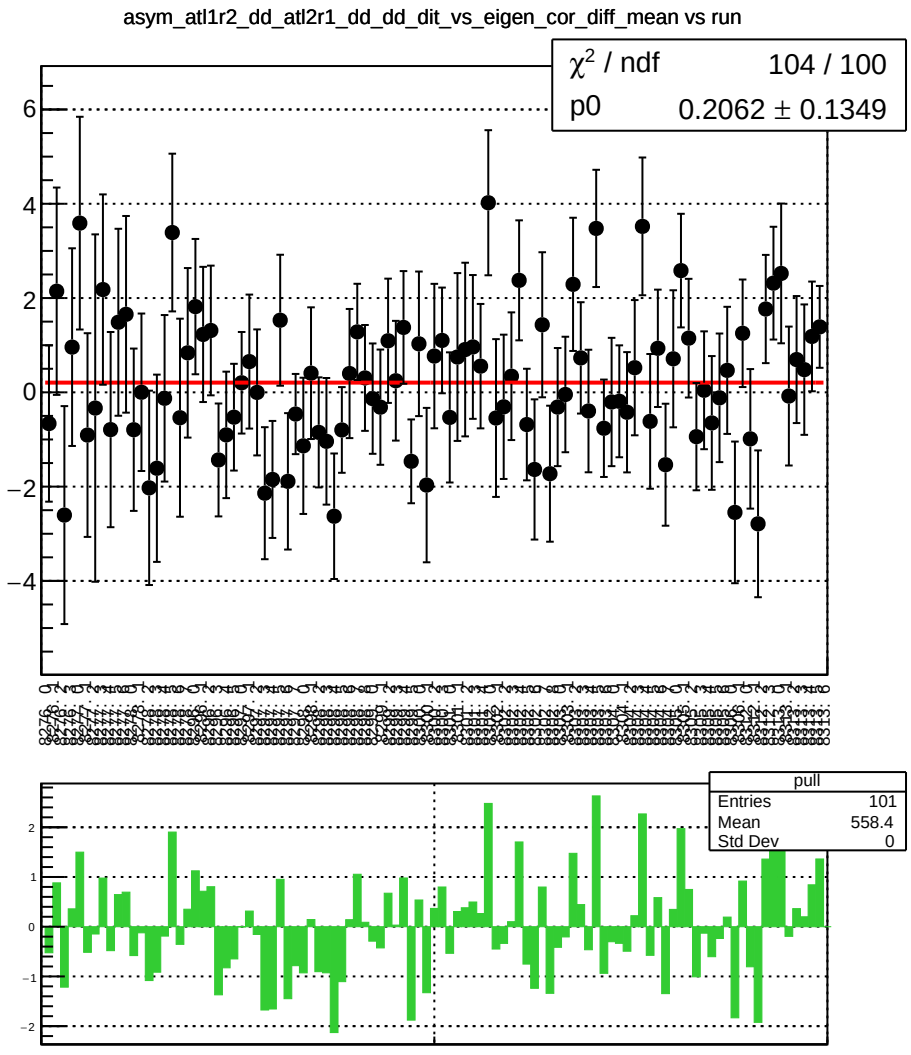

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 121.3 / 100
p0 −1.691e−12 ± 7.604e−13
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
pull
Entries 101
Mean −59.91
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean −0.05891
Std Dev 1.094
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

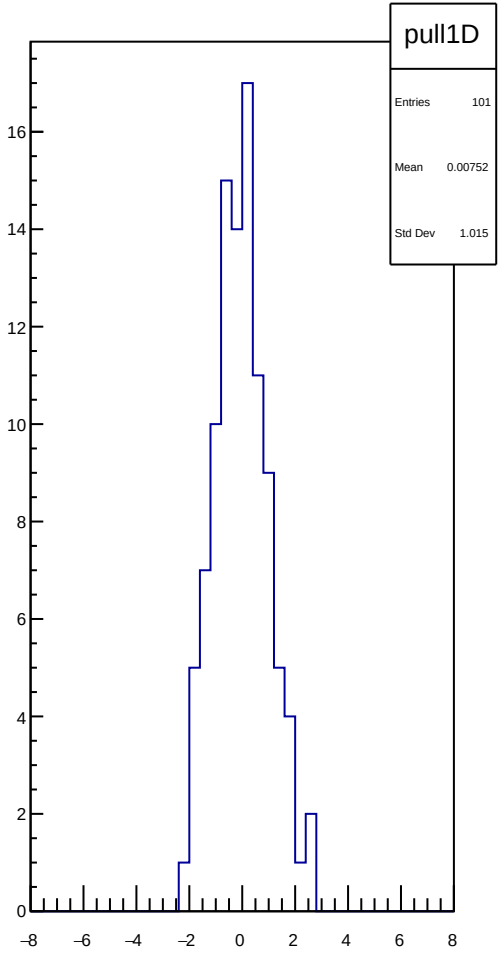

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.486e+05 / 100
p0 5.32e−10 ± 5.377e−13
1
0.8
0.6
0.4
0.2
0

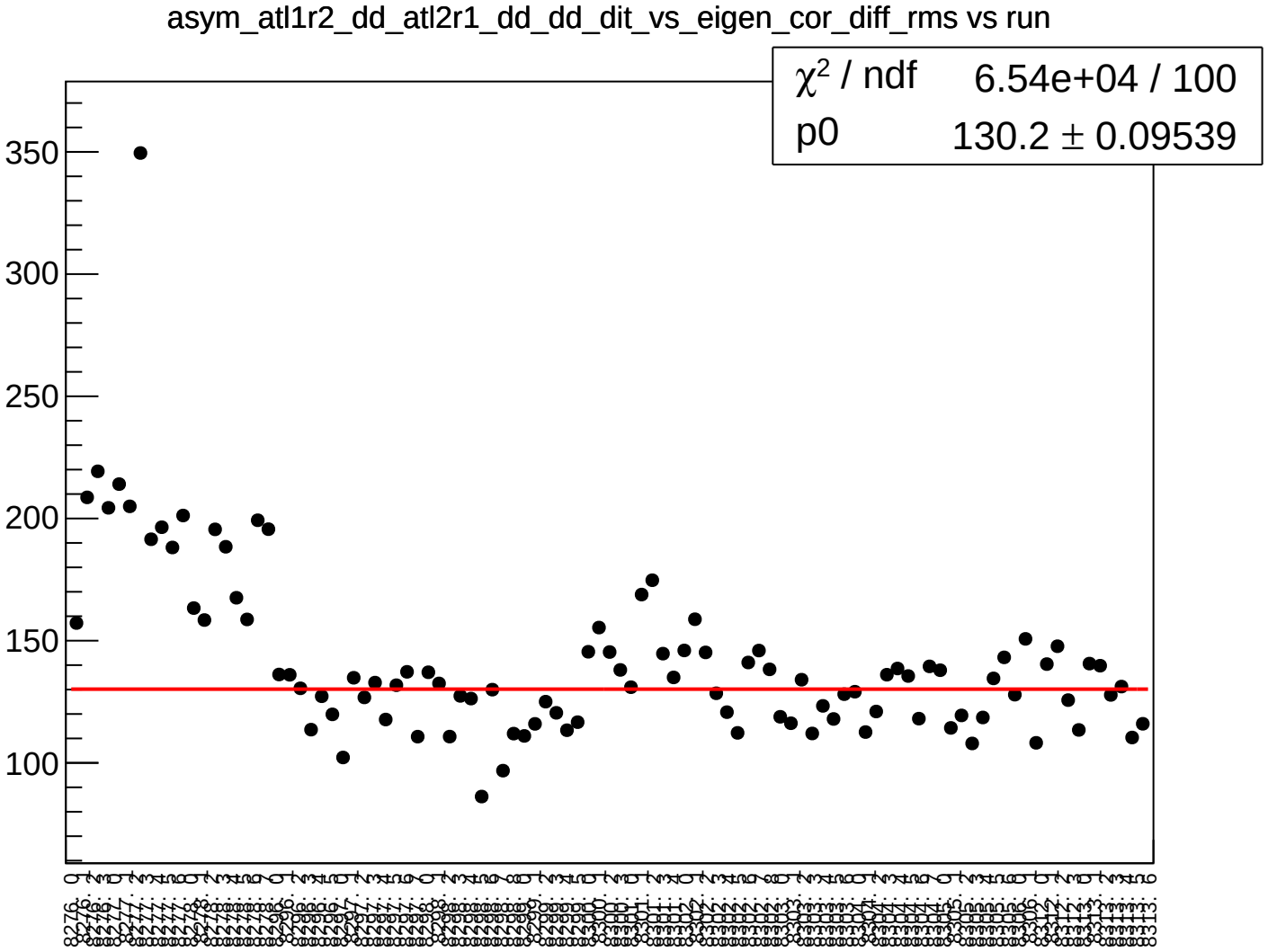

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 104 / 100
p0 0.2062 ± 0.1349
pull
Entries 101
Mean 558.4
Std Dev 0

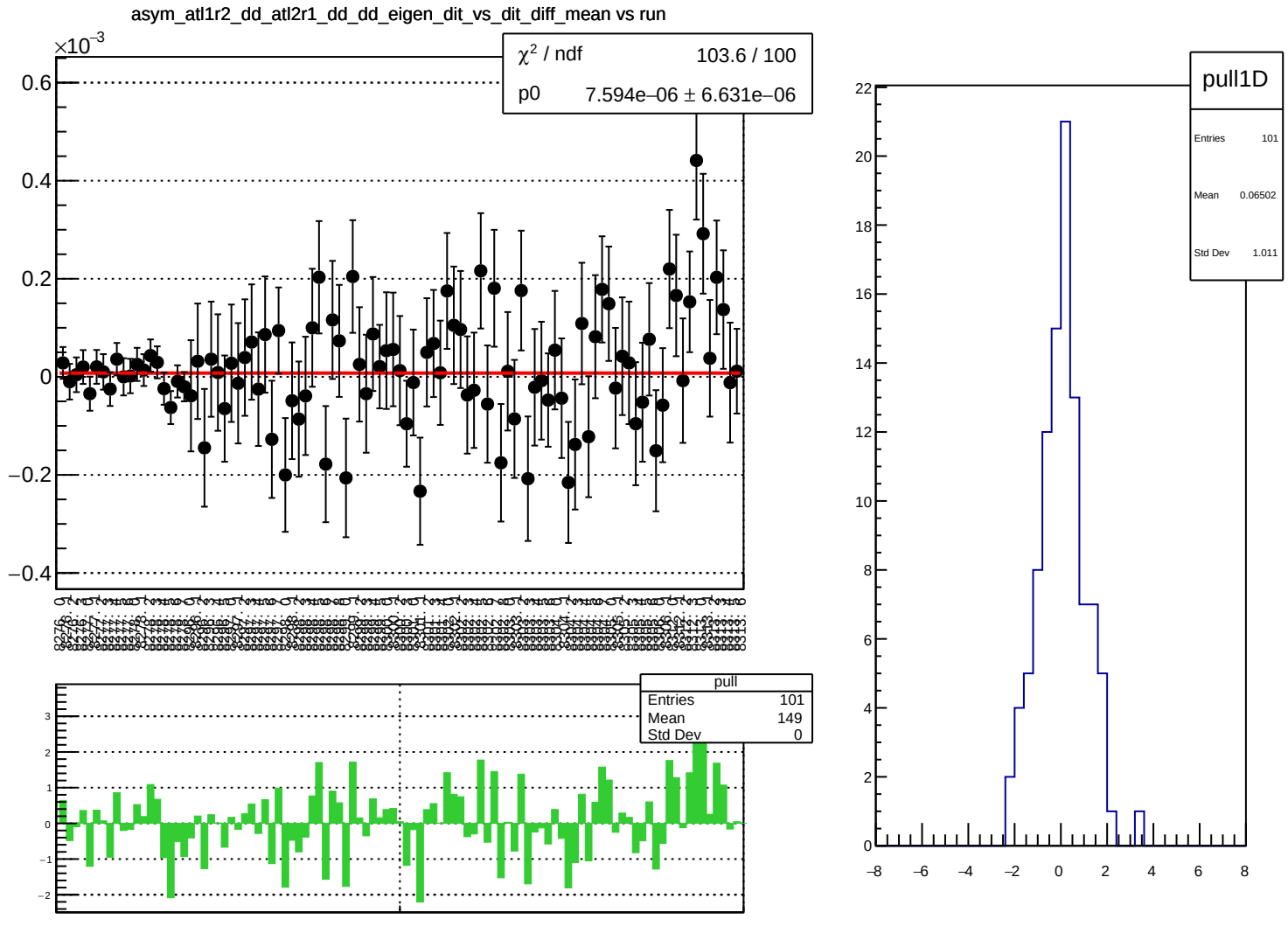

pull1D
Entries 101
Mean 0.00752
Std Dev 1.015

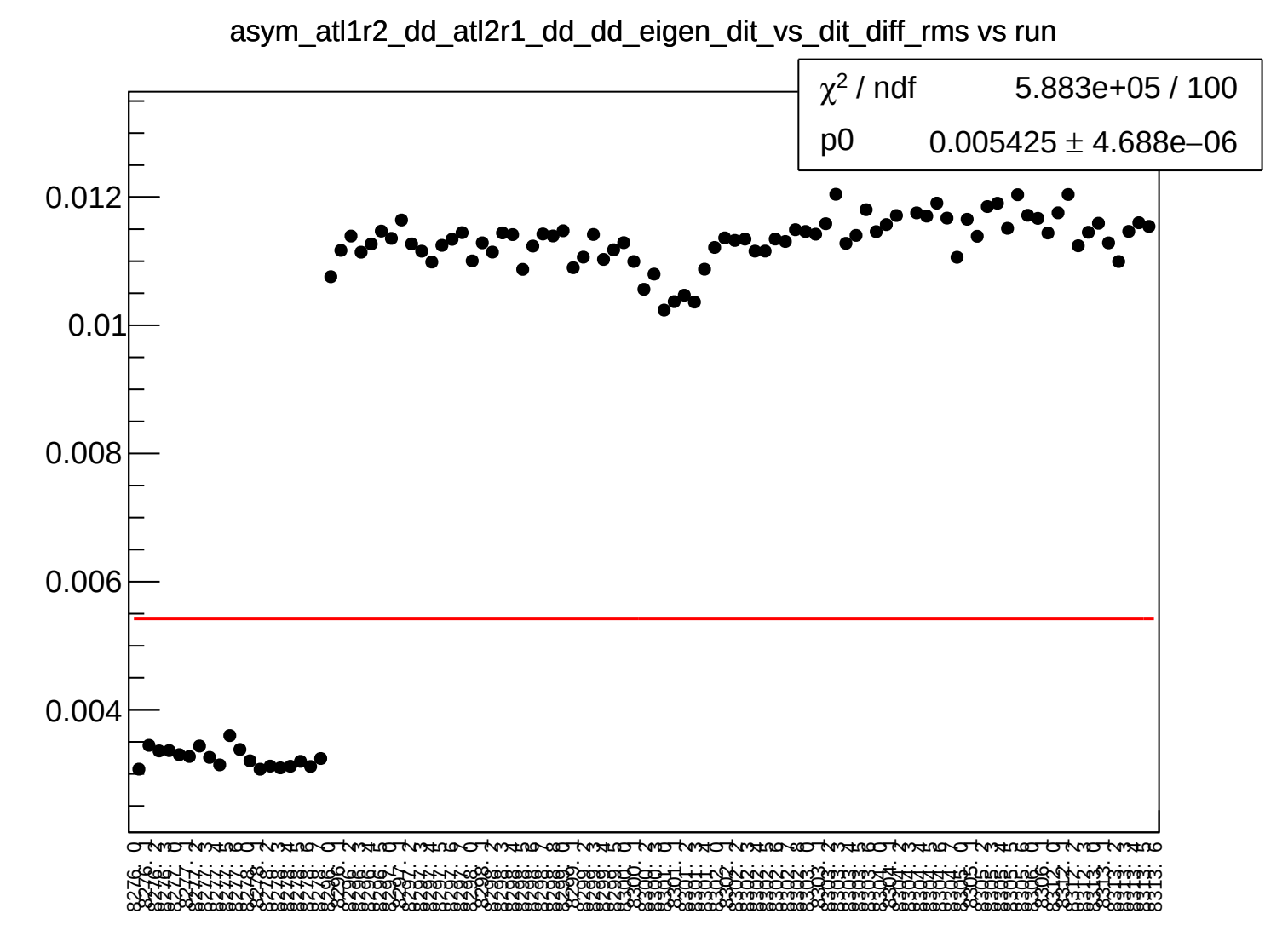

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.54e+04 / 100
p0 130.2 ± 0.09539
350
300
250
200
150
100

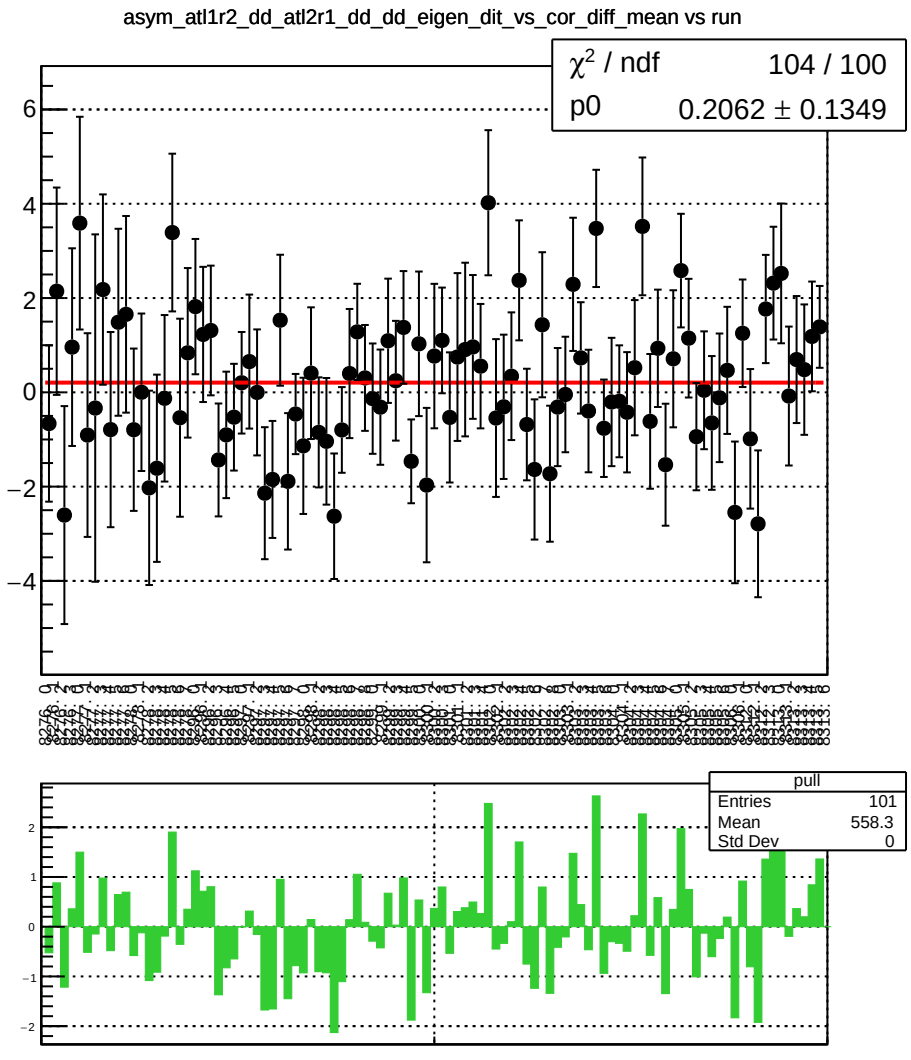

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104 / 100
p0 0.2062 ± 0.1349
pull
Entries 101
Mean 558.4
Std Dev 0

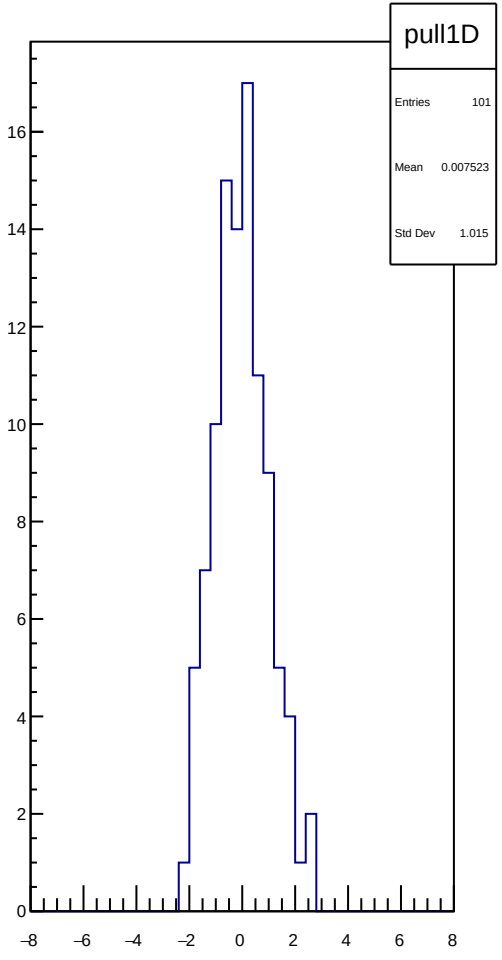

pull1D
Entries 101
Mean 0.00752
Std Dev 1.015

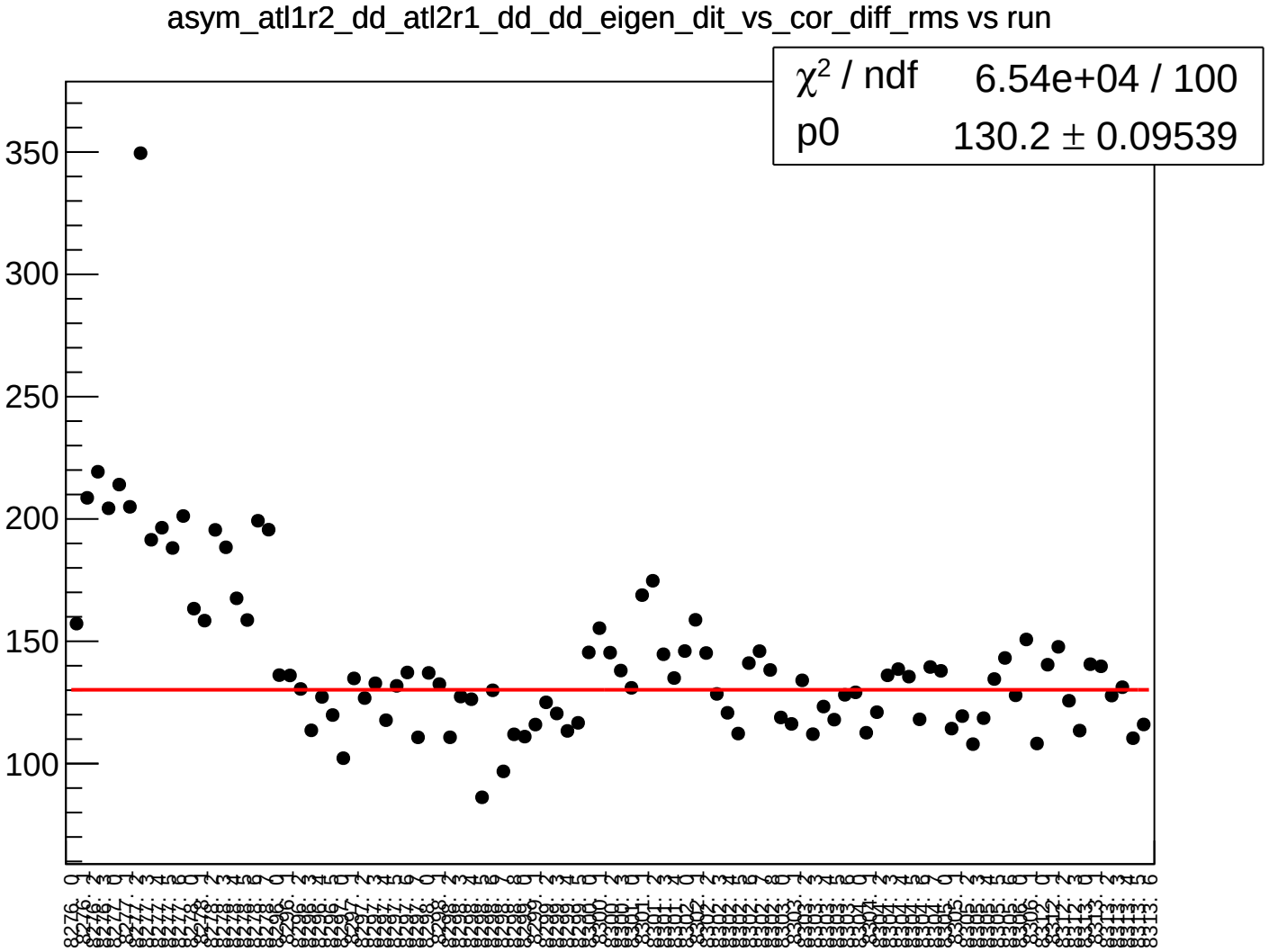

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.54e+04 / 100
p0 130.2 ± 0.09539
350
300
250
200
150
100

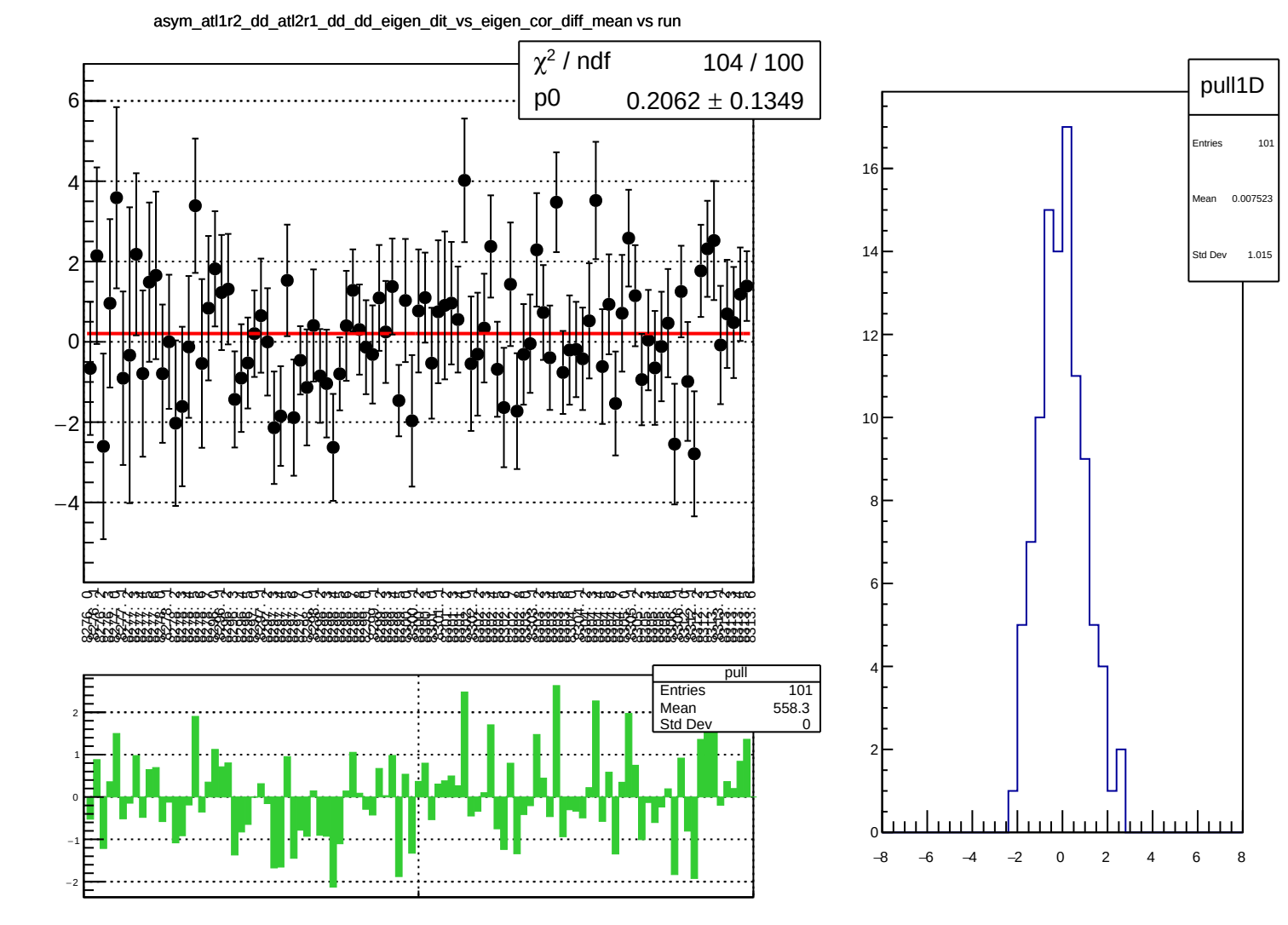

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103.6 / 100
p0 7.594e−06 ± 6.631e−06
pull
Entries 101
Mean 149
Std Dev 0
pull1D
Entries 101
Mean 0.06502
Std Dev 1.011

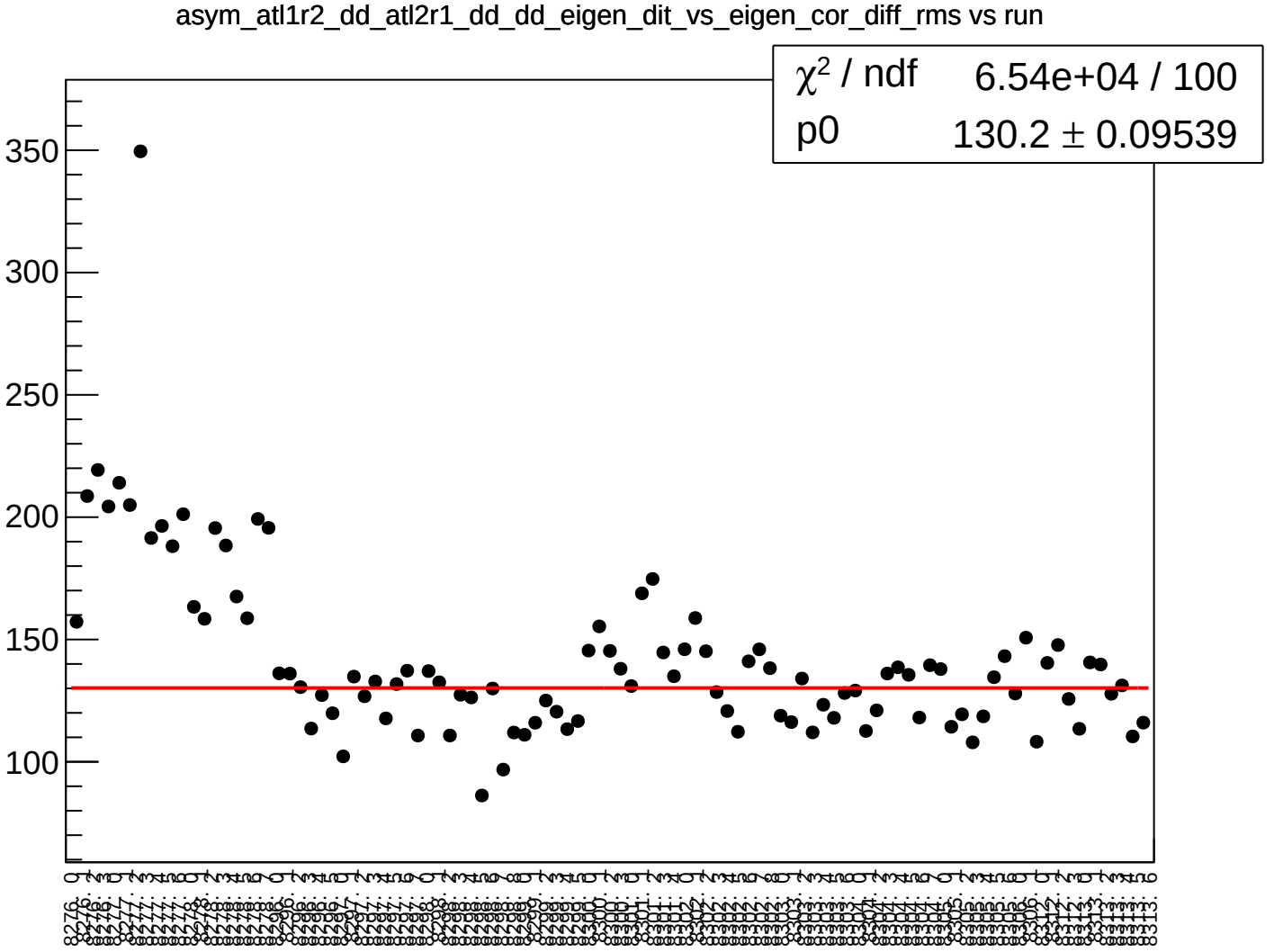

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.883e+05 / 100
p0 0.005425 ± 4.688e−06
0.012
0.01
0.008
0.006
0.004

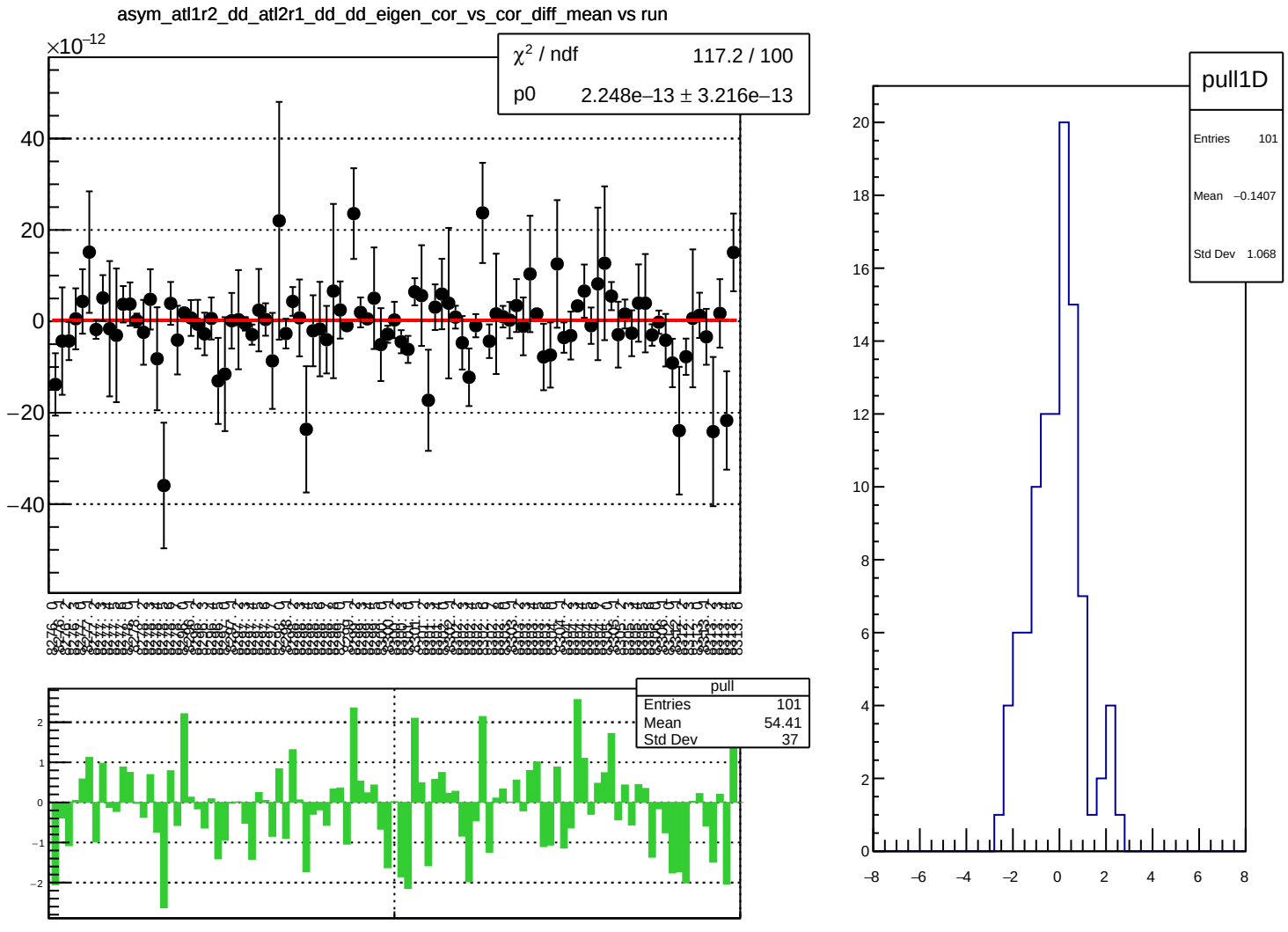

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104 / 100
p0 0.2062 ± 0.1349
pull
Entries 101
Mean 558.3
Std Dev 0

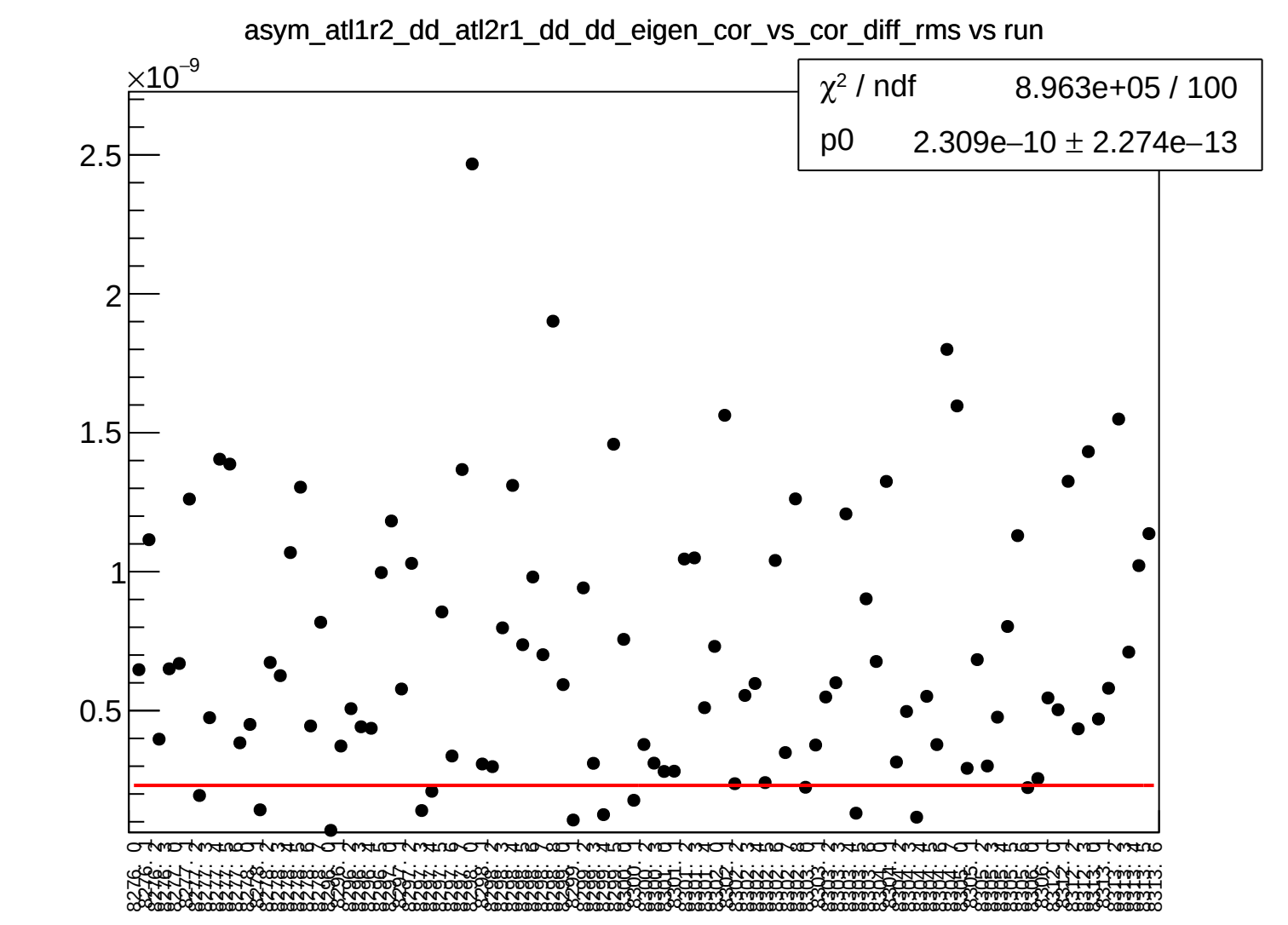

pull1D
Entries 101
Mean 0.007523
Std Dev 1.015

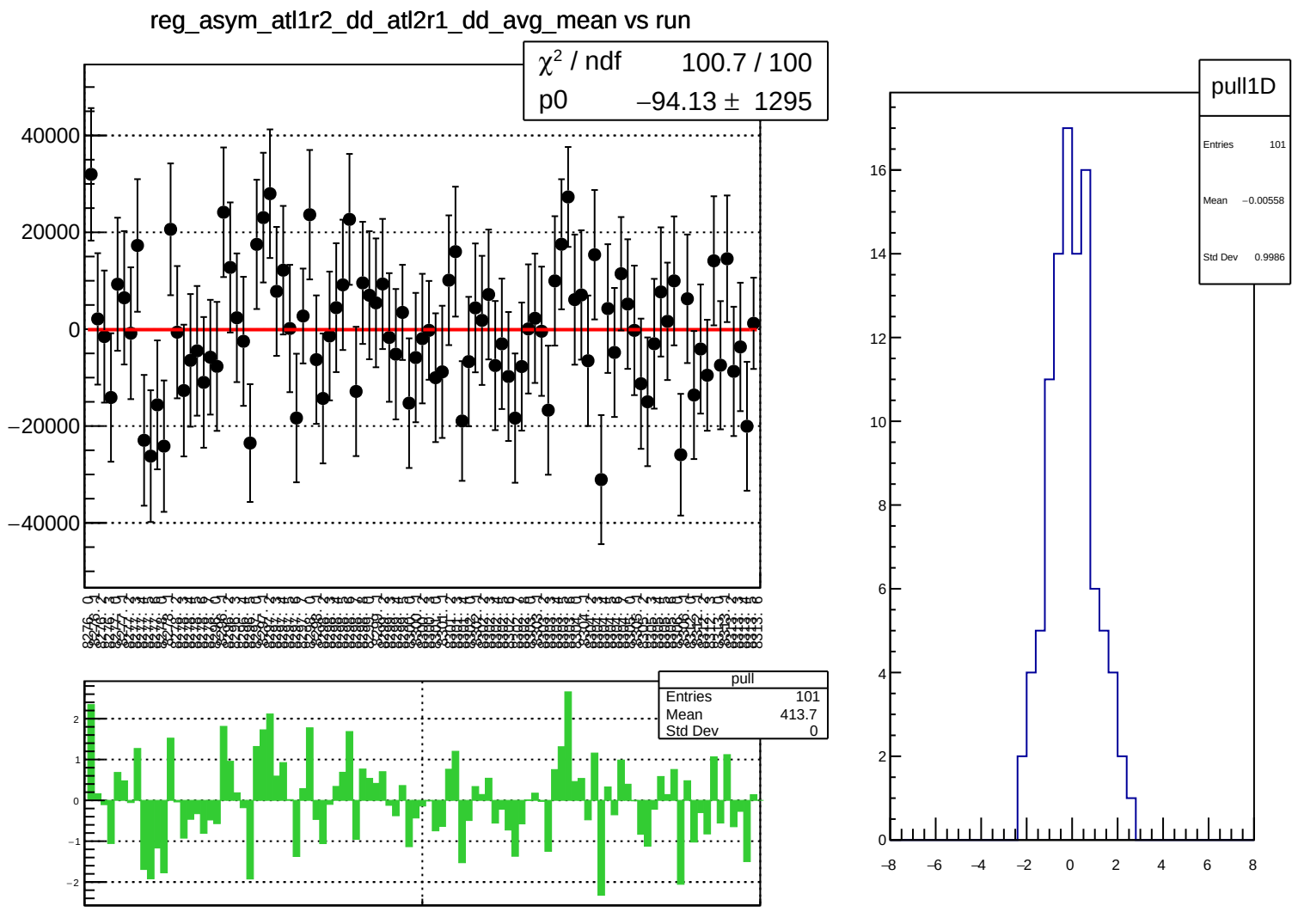

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.54e+04 / 100
p0 130.2 ± 0.09539
350
300
250
200
150
100

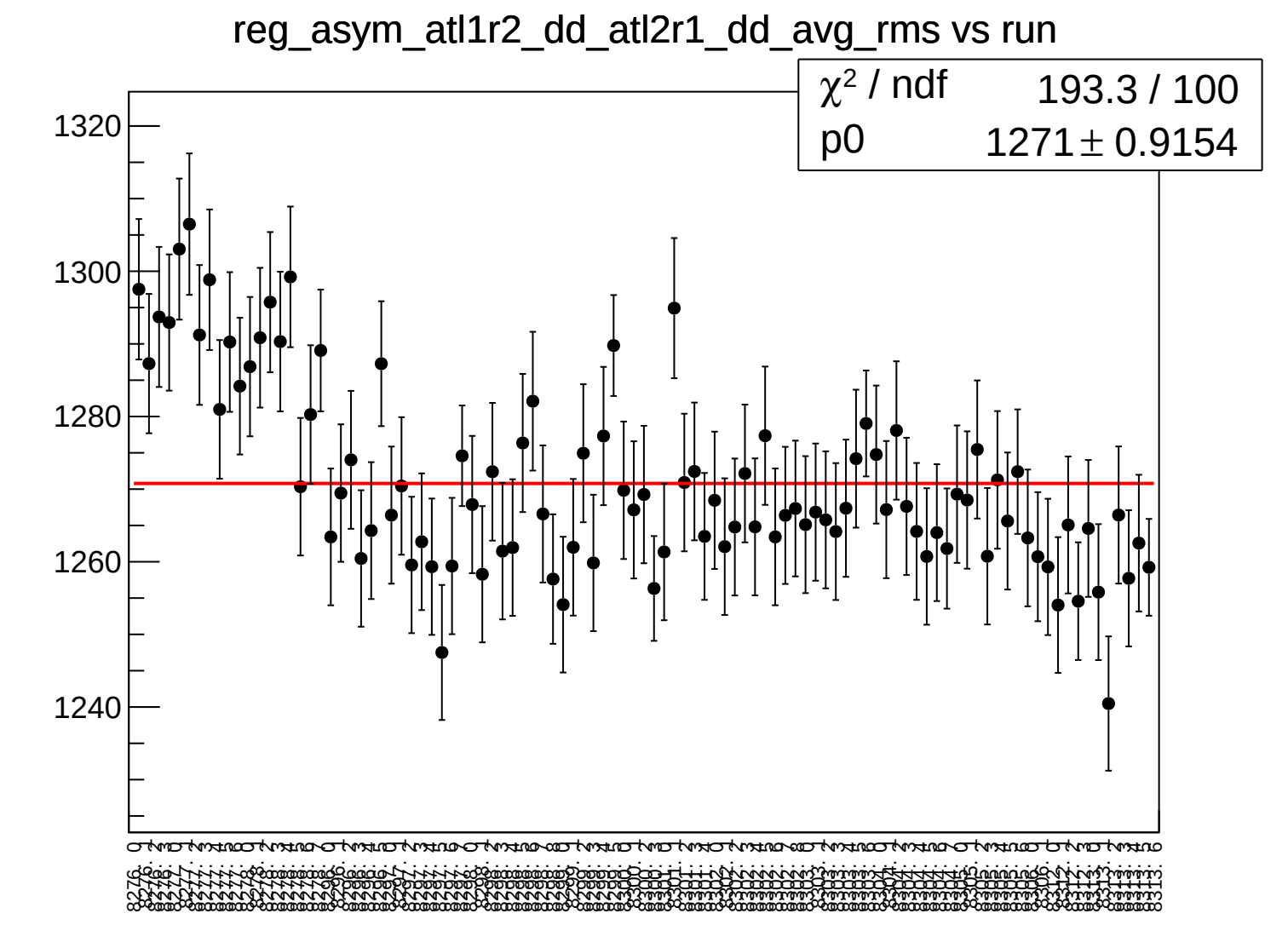

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104 / 100
p0 0.2062 ± 0.1349
pull
Entries 101
Mean 558.3
Std Dev 0
pull1D
Entries 101
Mean 0.007523
Std Dev 1.015

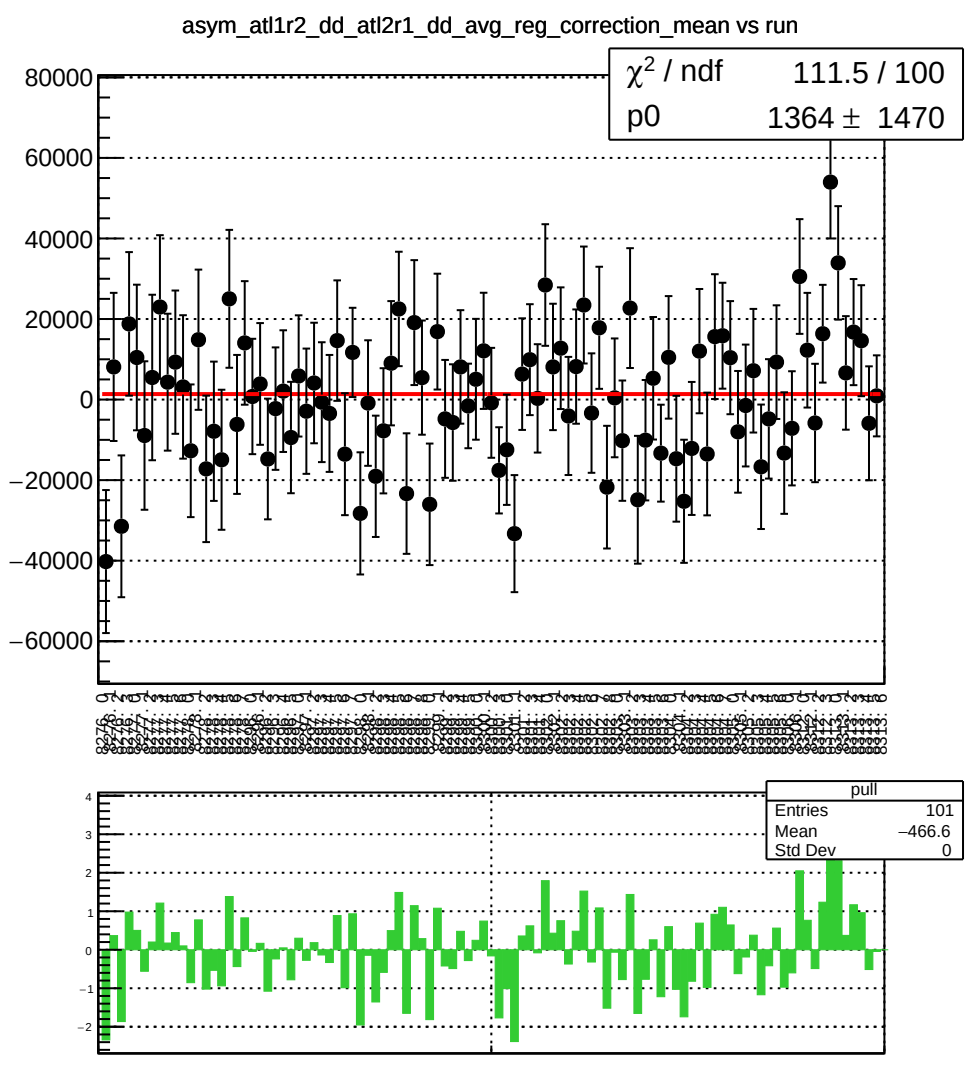

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.54e+04 / 100
p0 130.2 ± 0.09539
350
300
250
200
150
100

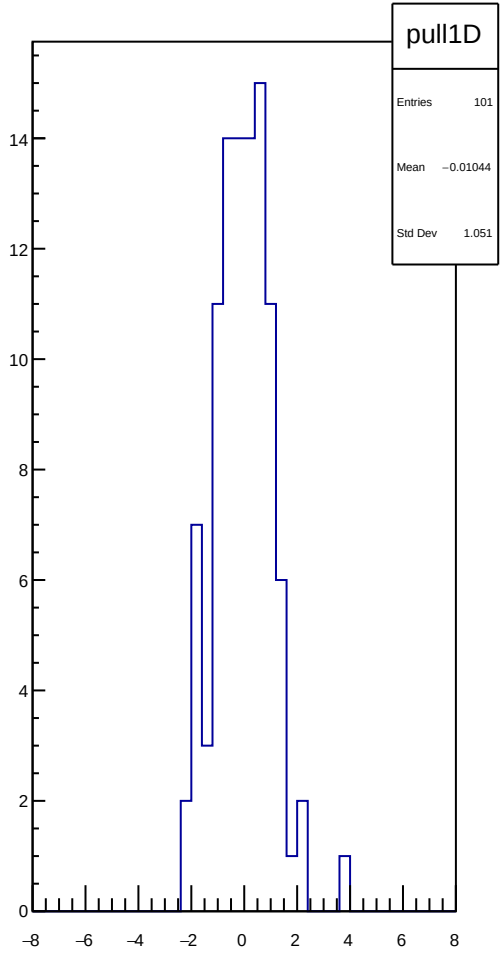

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 117.2 / 100
p0 2.248e−13 ± 3.216e−13
pull
Entries 101
Mean 54.41
Std Dev 37
pull1D
Entries 101
Mean −0.1407
Std Dev 1.068

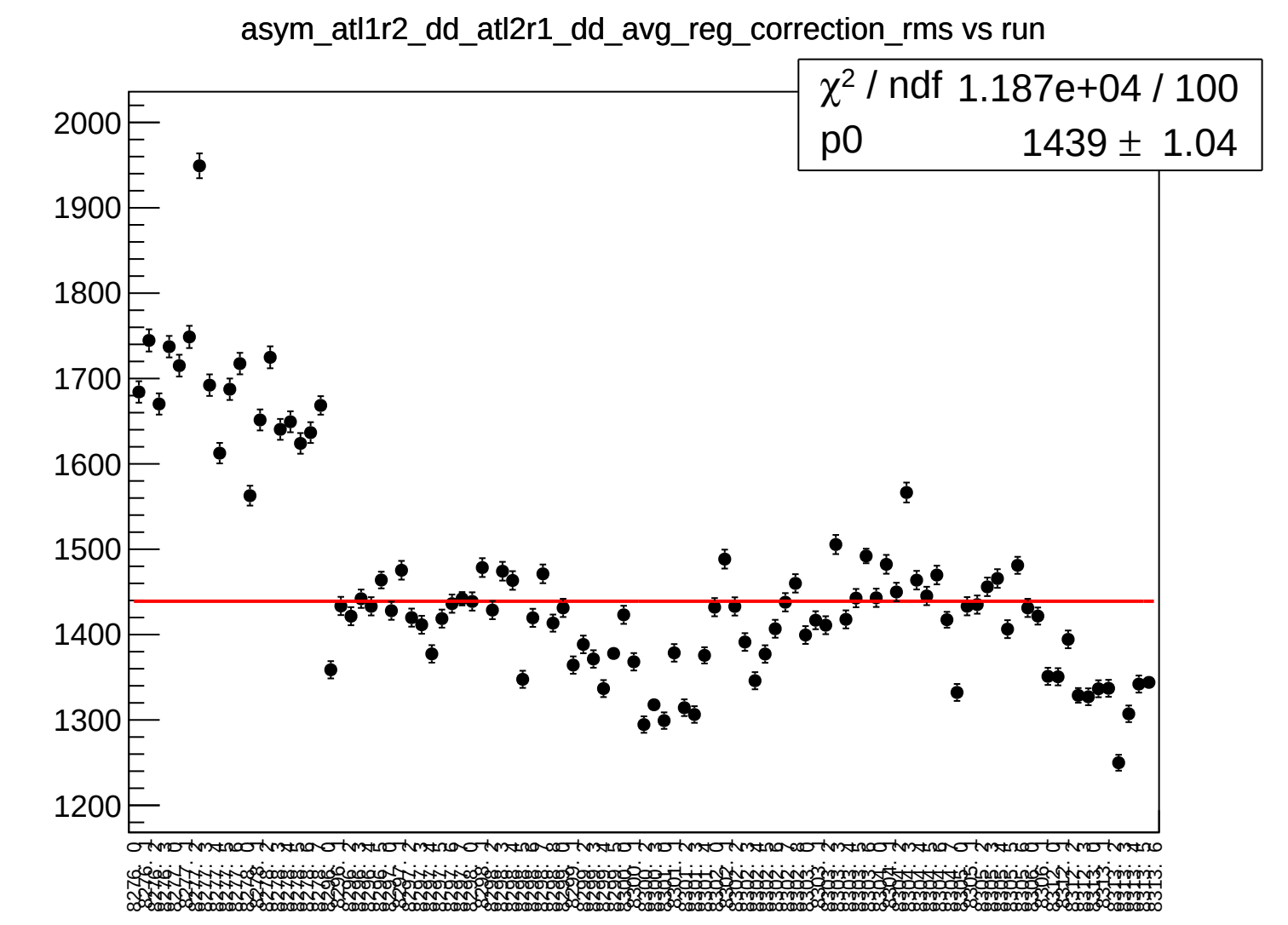

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.963e+05 / 100
p0 2.309e−10 ± 2.274e−13
2.5
2
1.5
1
0.5

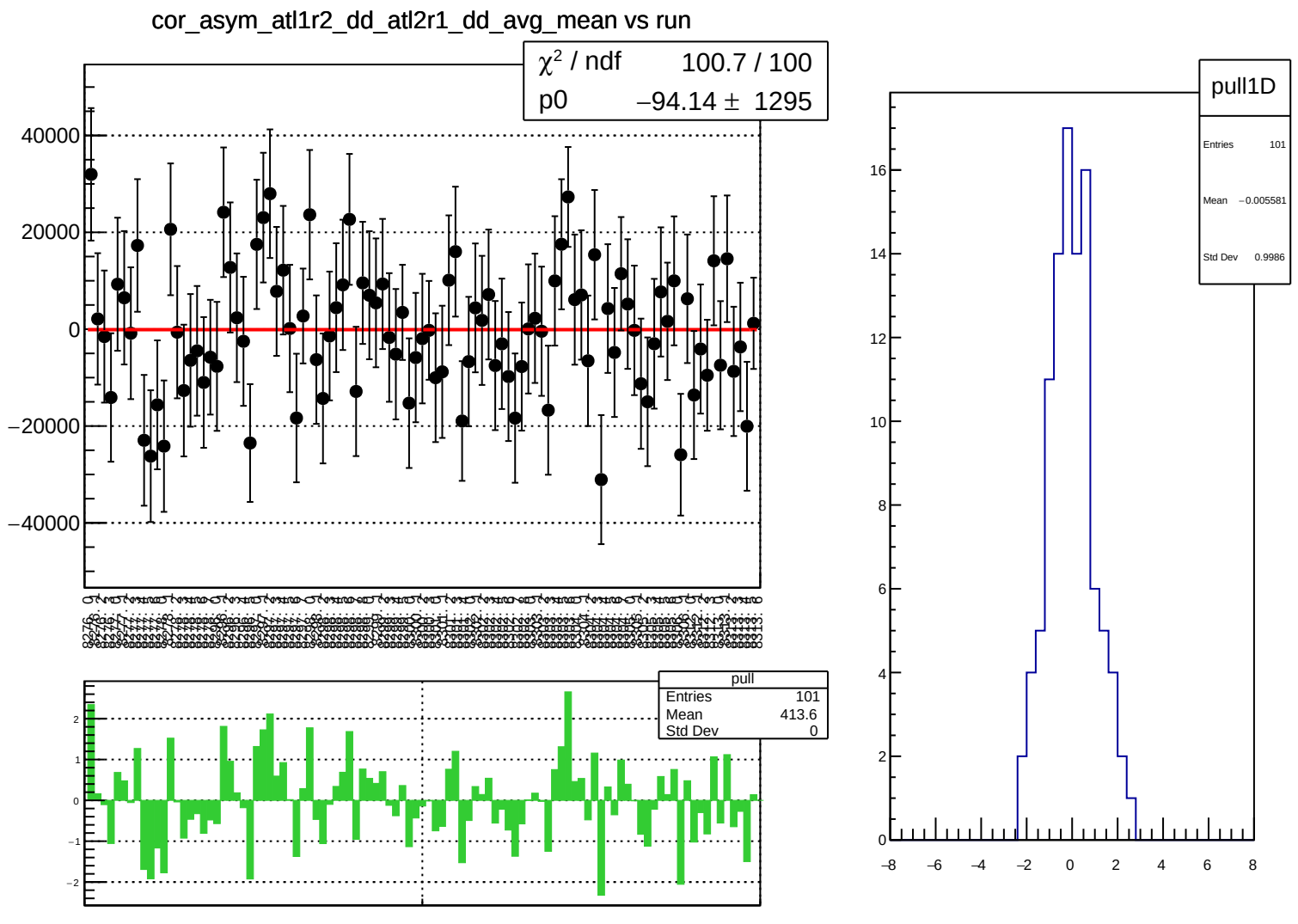

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 100.7 / 100
p0 −94.13 ± 1295
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 413.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.00558
Std Dev 0.9986
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

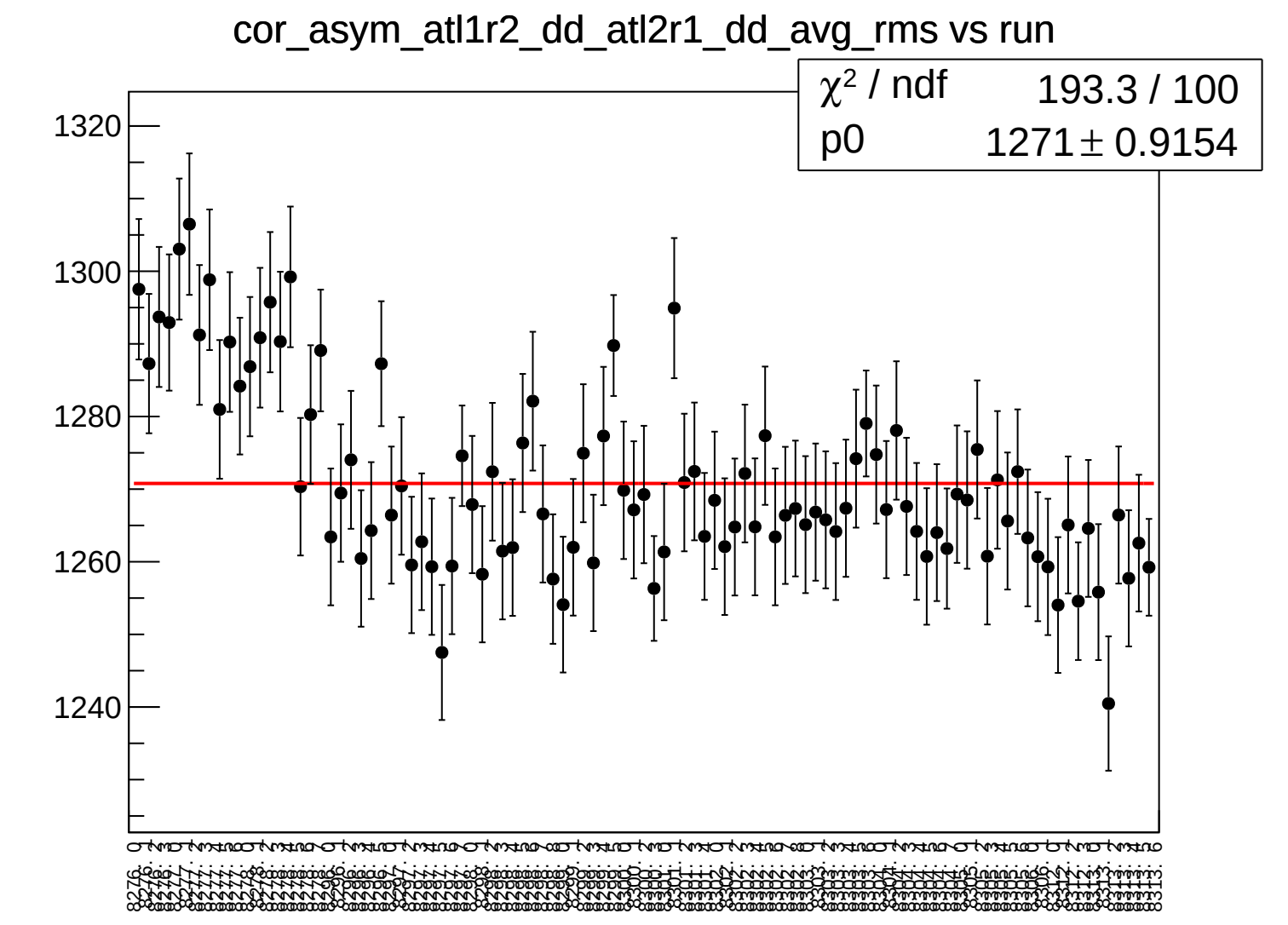

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 193.3 / 100
p0 1271 ± 0.9154
1320
1300
1280
1260
1240

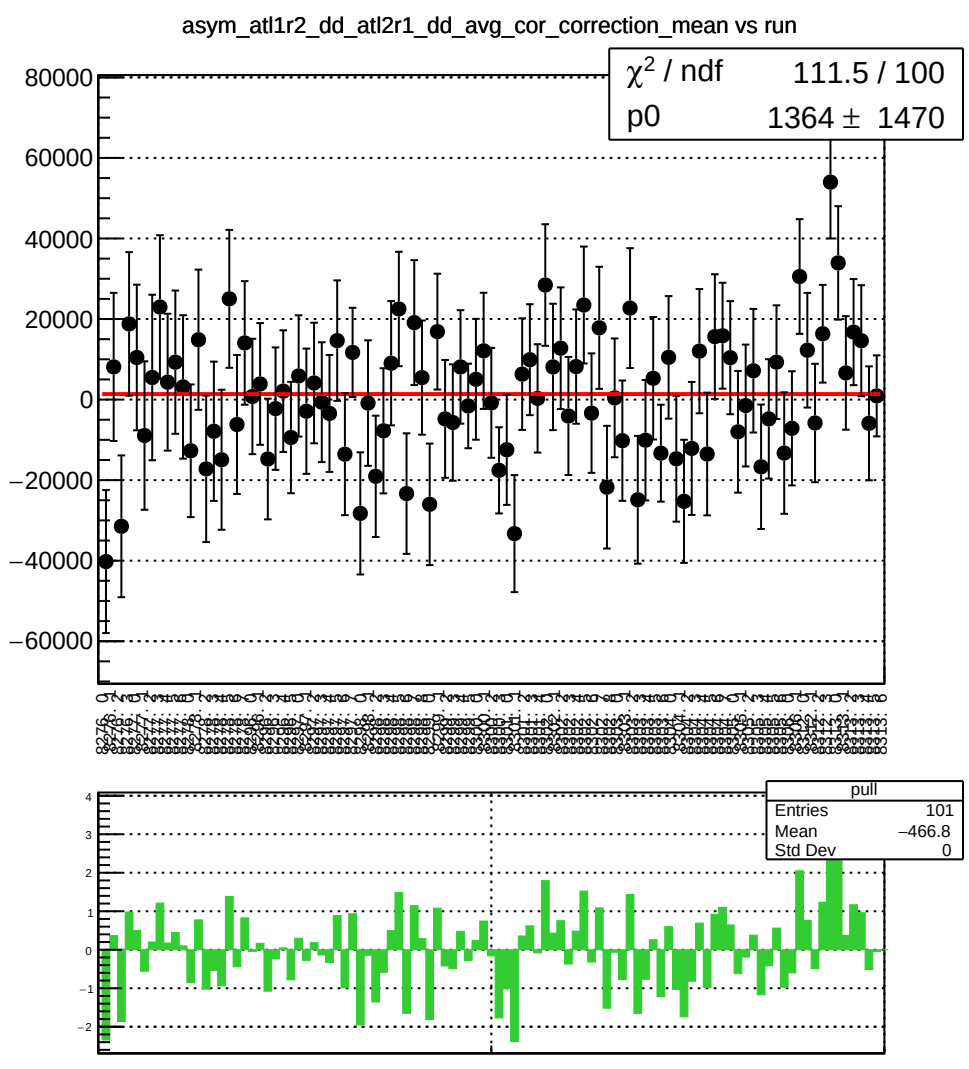

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 111.5 / 100
p0 1364 ± 1470
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −466.6
Std Dev 0
4
3
2
1
0
−1
−2

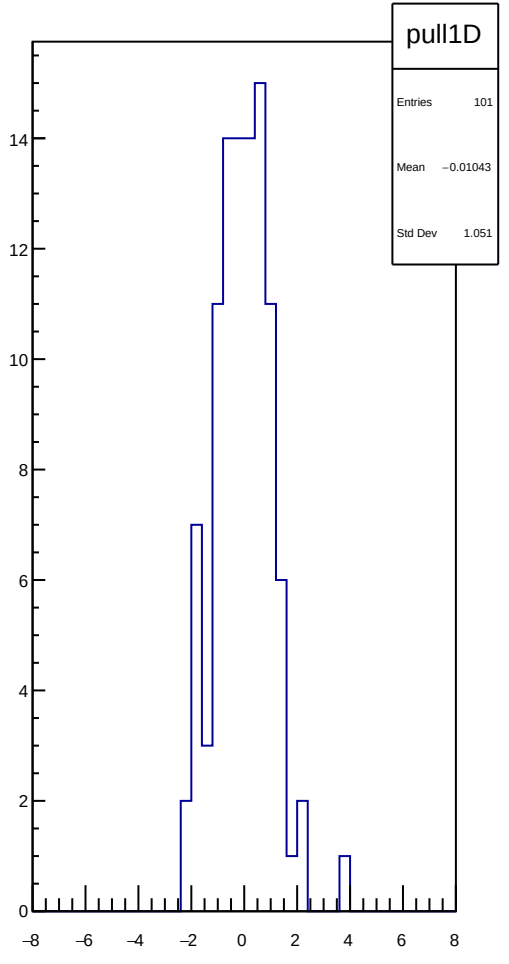

pull1D
Entries 101
Mean −0.01044
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

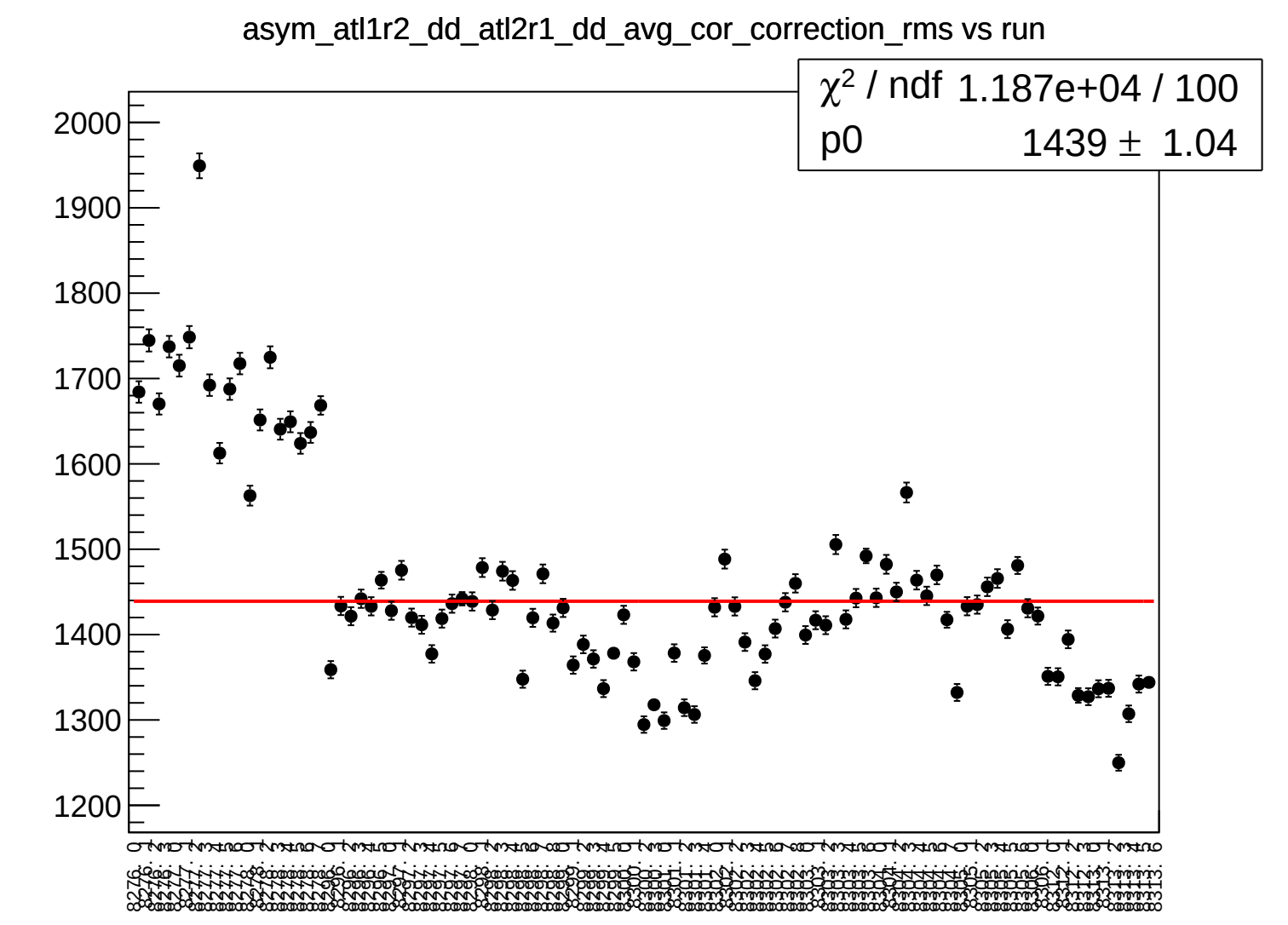

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 1.187e+04 / 100
p0 1439 ± 1.04
2000
1900
1800
1700
1600
1500
1400
1300
1200

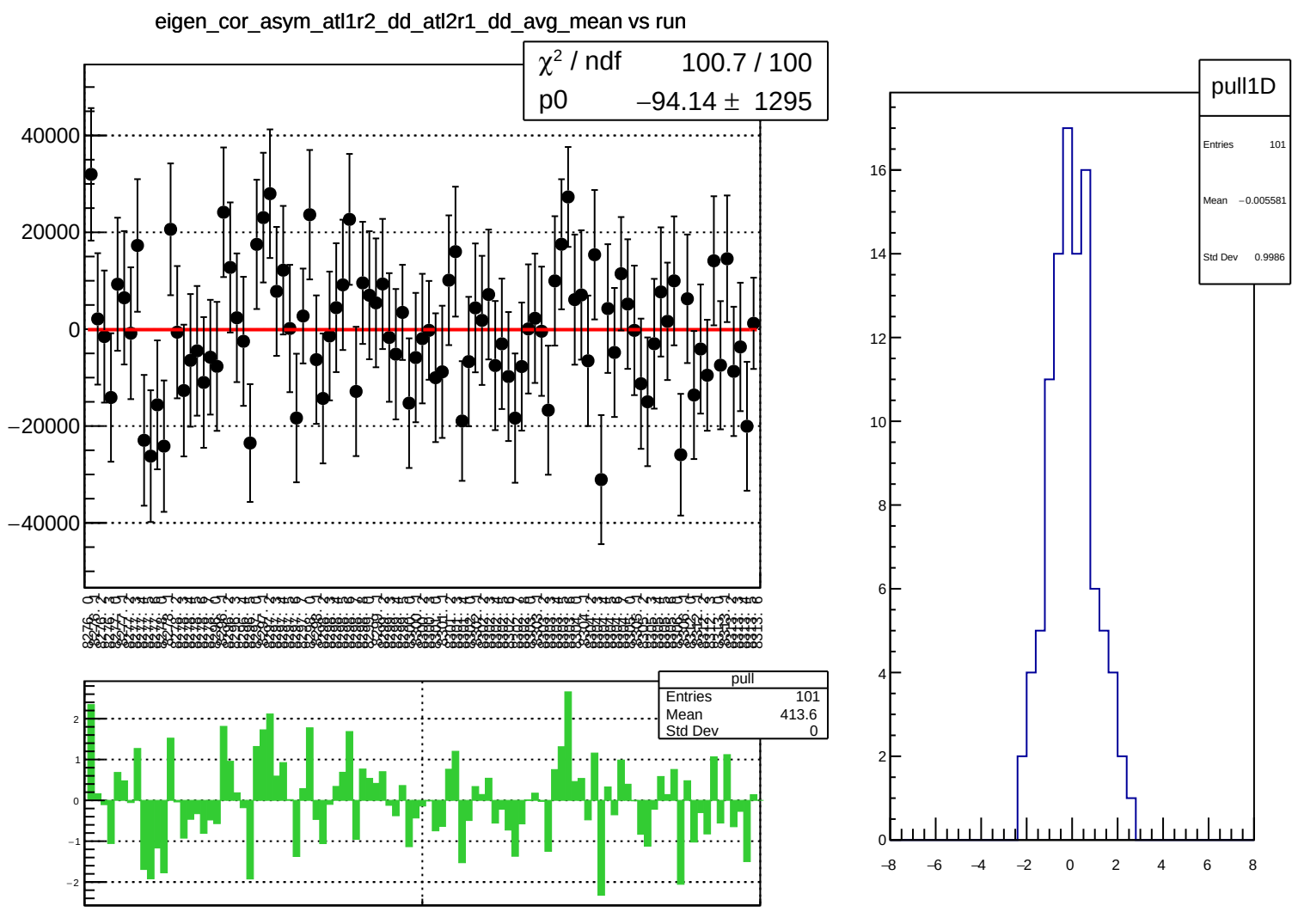

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 100.7 / 100
p0 −94.14 ± 1295
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 413.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.005581
Std Dev 0.9986
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

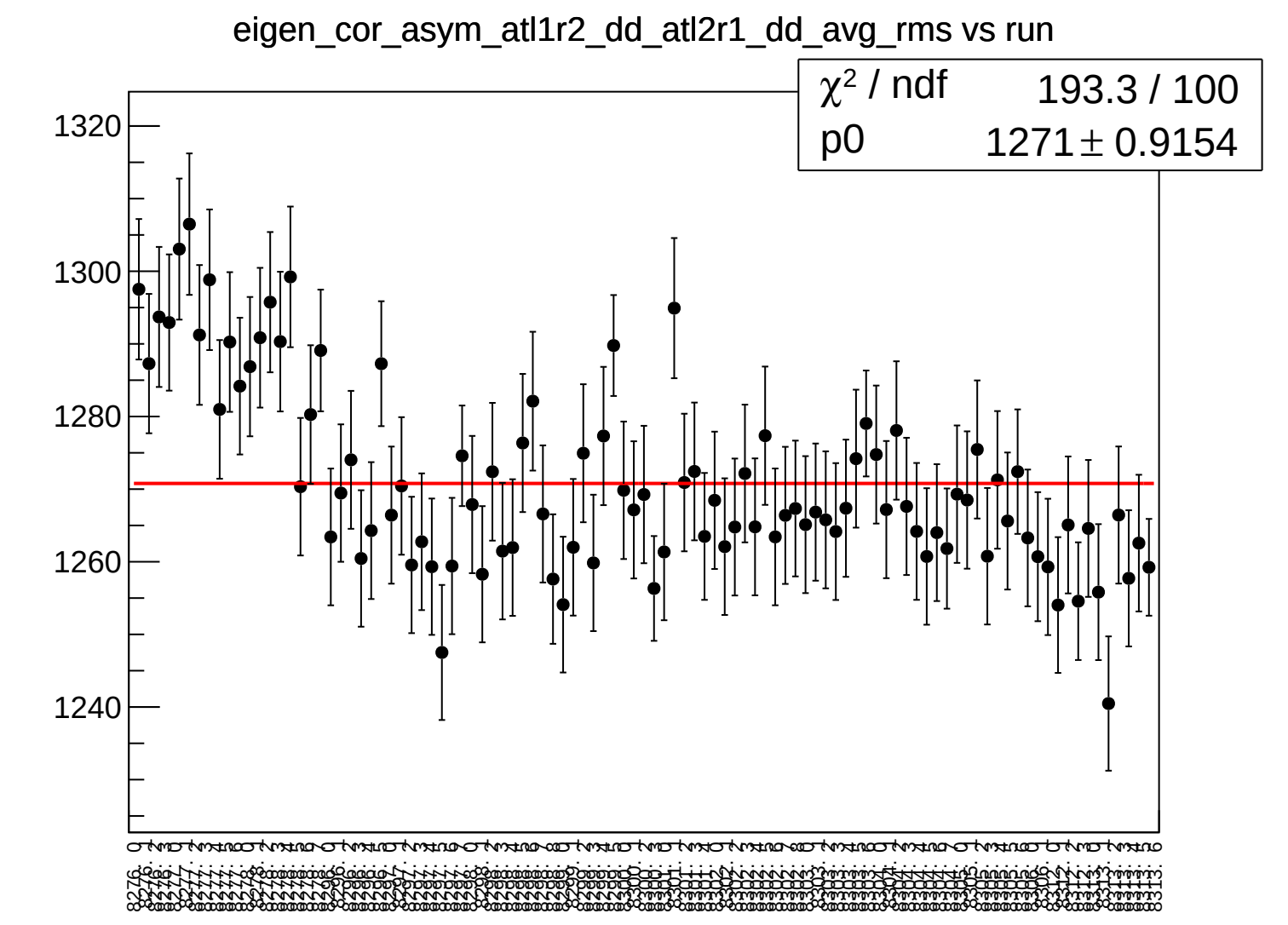

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 193.3 / 100
p0 1271 ± 0.9154
1320
1300
1280
1260
1240

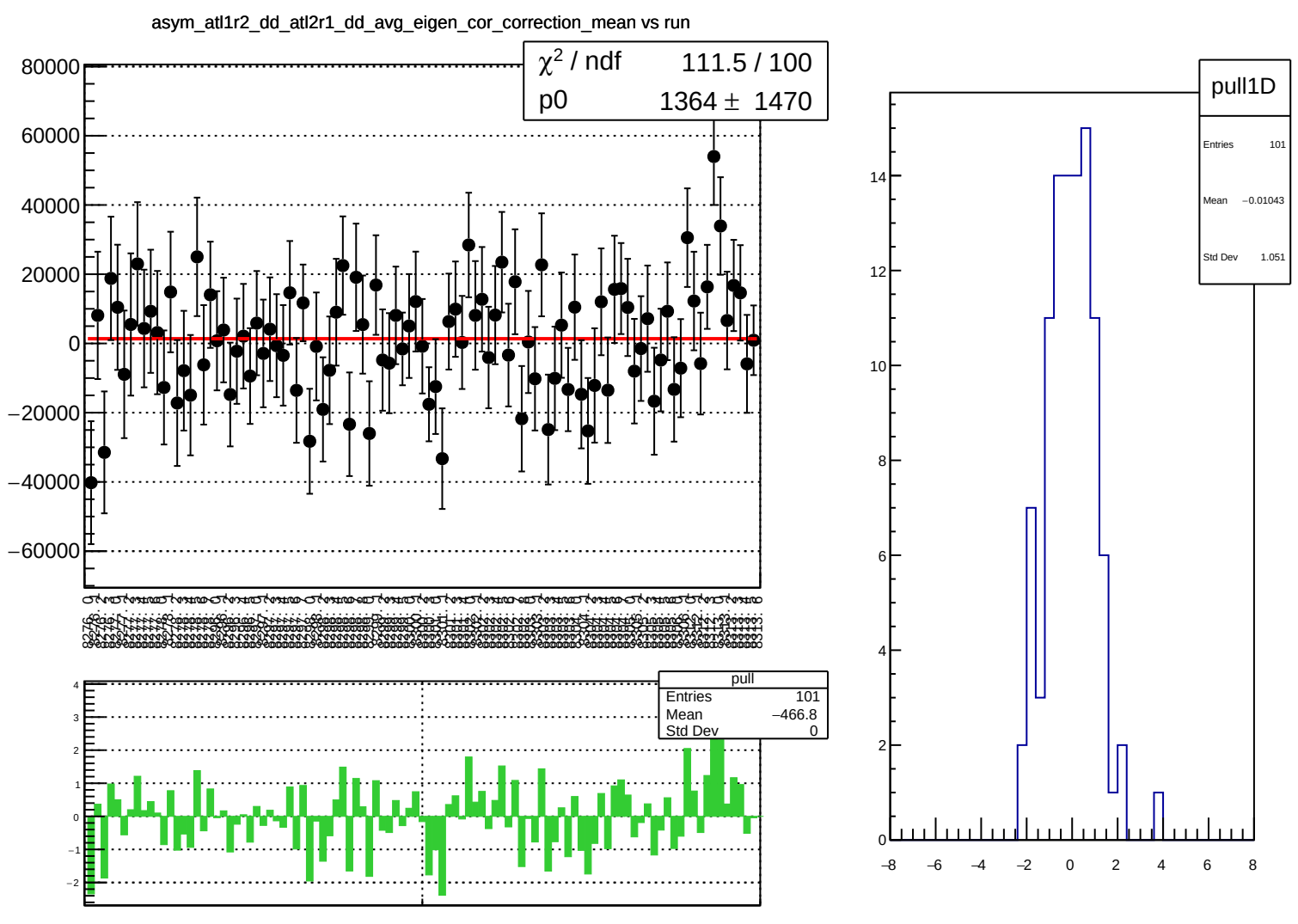

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 111.5 / 100
p0 1364 ± 1470
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −466.8
Std Dev 0
4
3
2
1
0
−1
−2

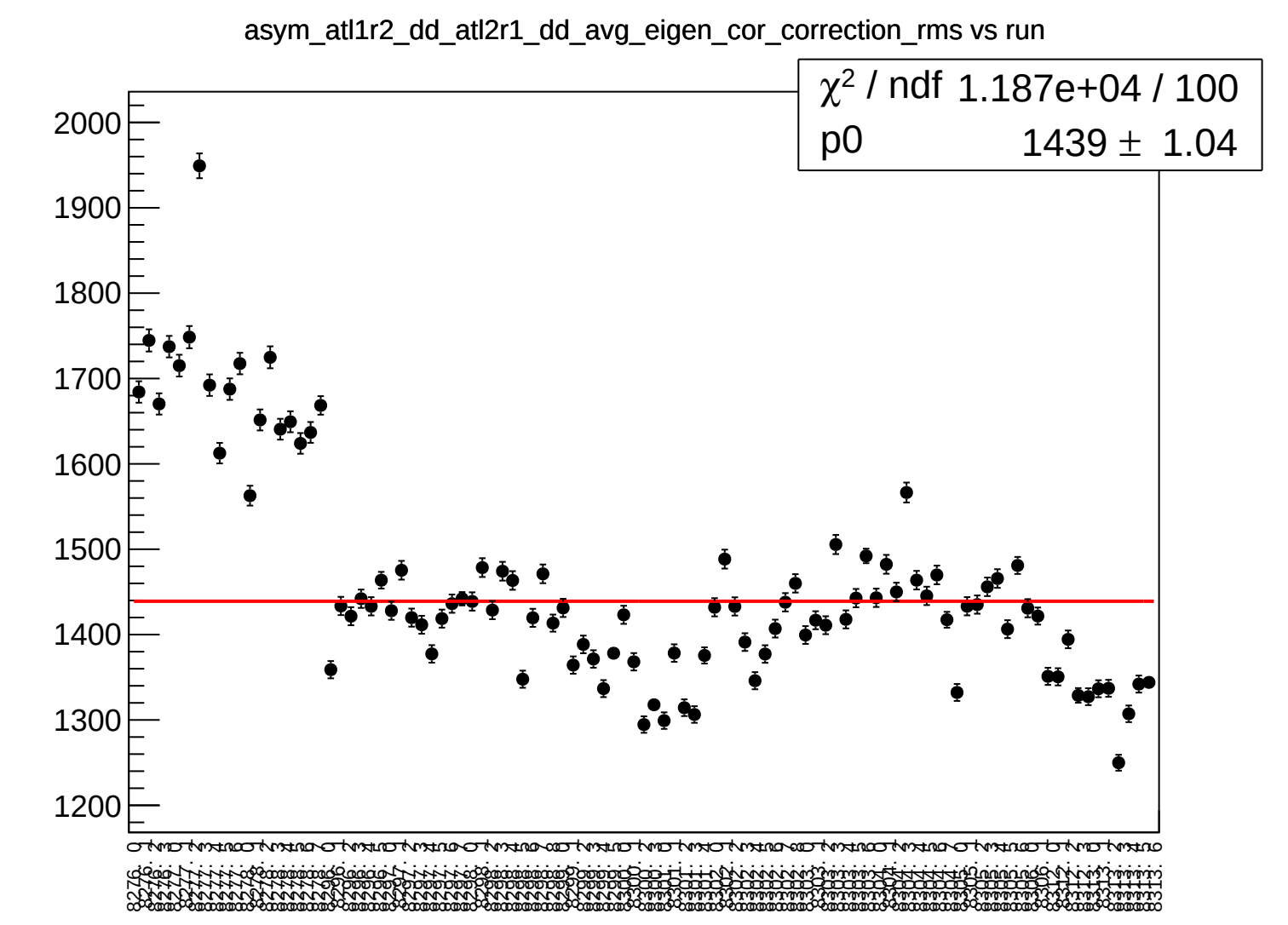

pull1D
Entries 101
Mean −0.01043
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

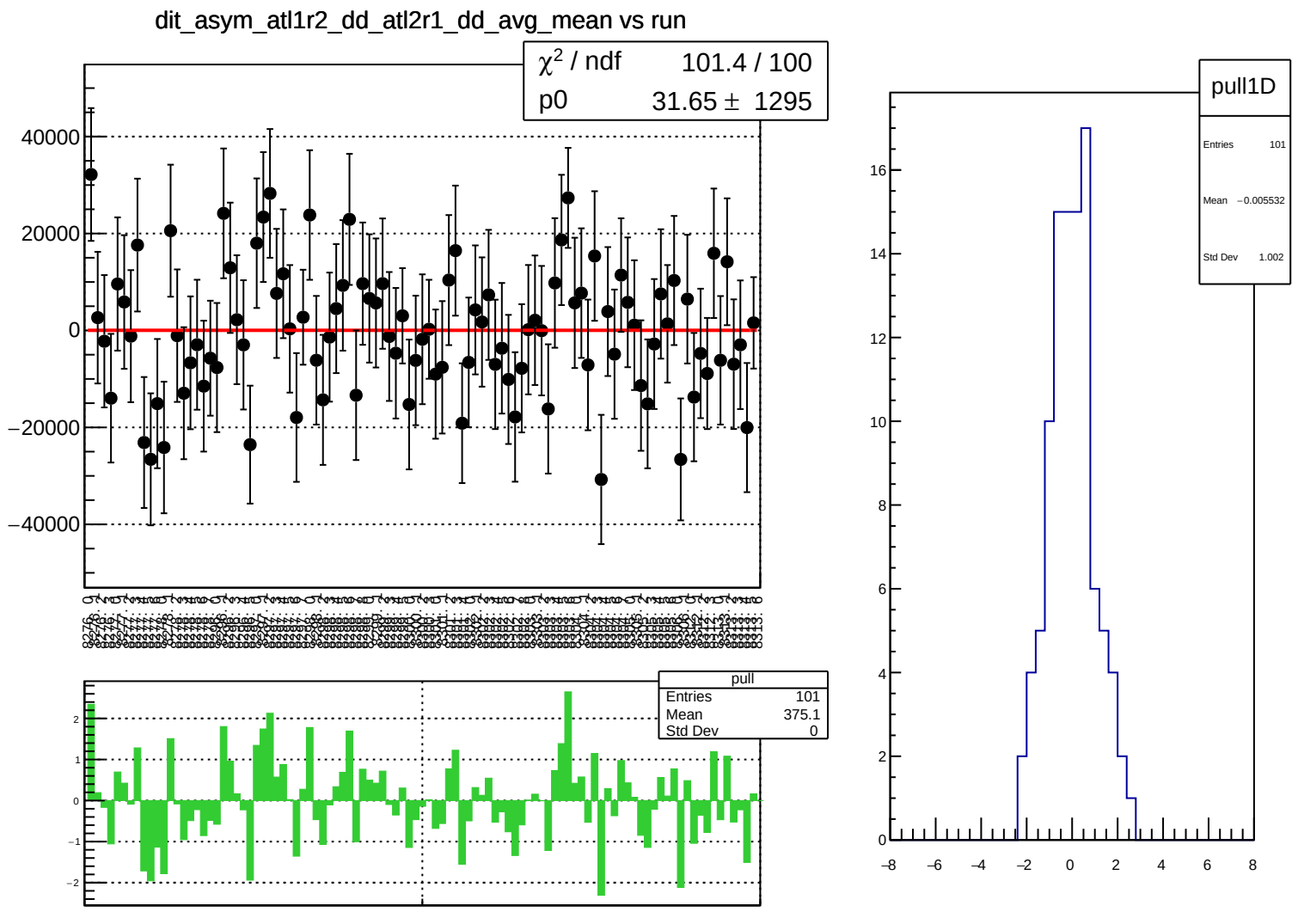

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 1.187e+04 / 100
p0 1439 ± 1.04
2000
1900
1800
1700
1600
1500
1400
1300
1200

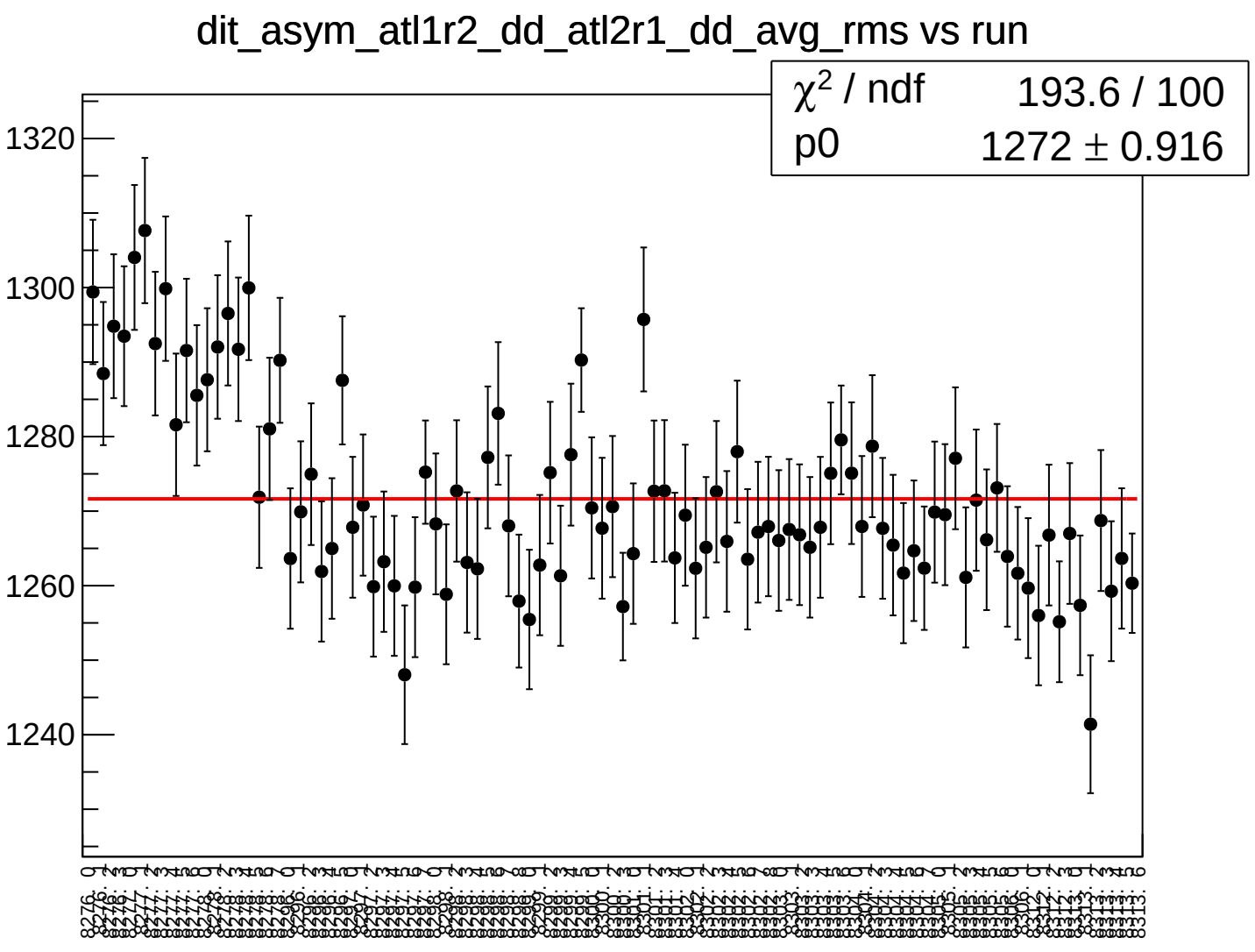

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 100.7 / 100
p0 −94.14 ± 1295
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 413.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.005581
Std Dev 0.9986
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

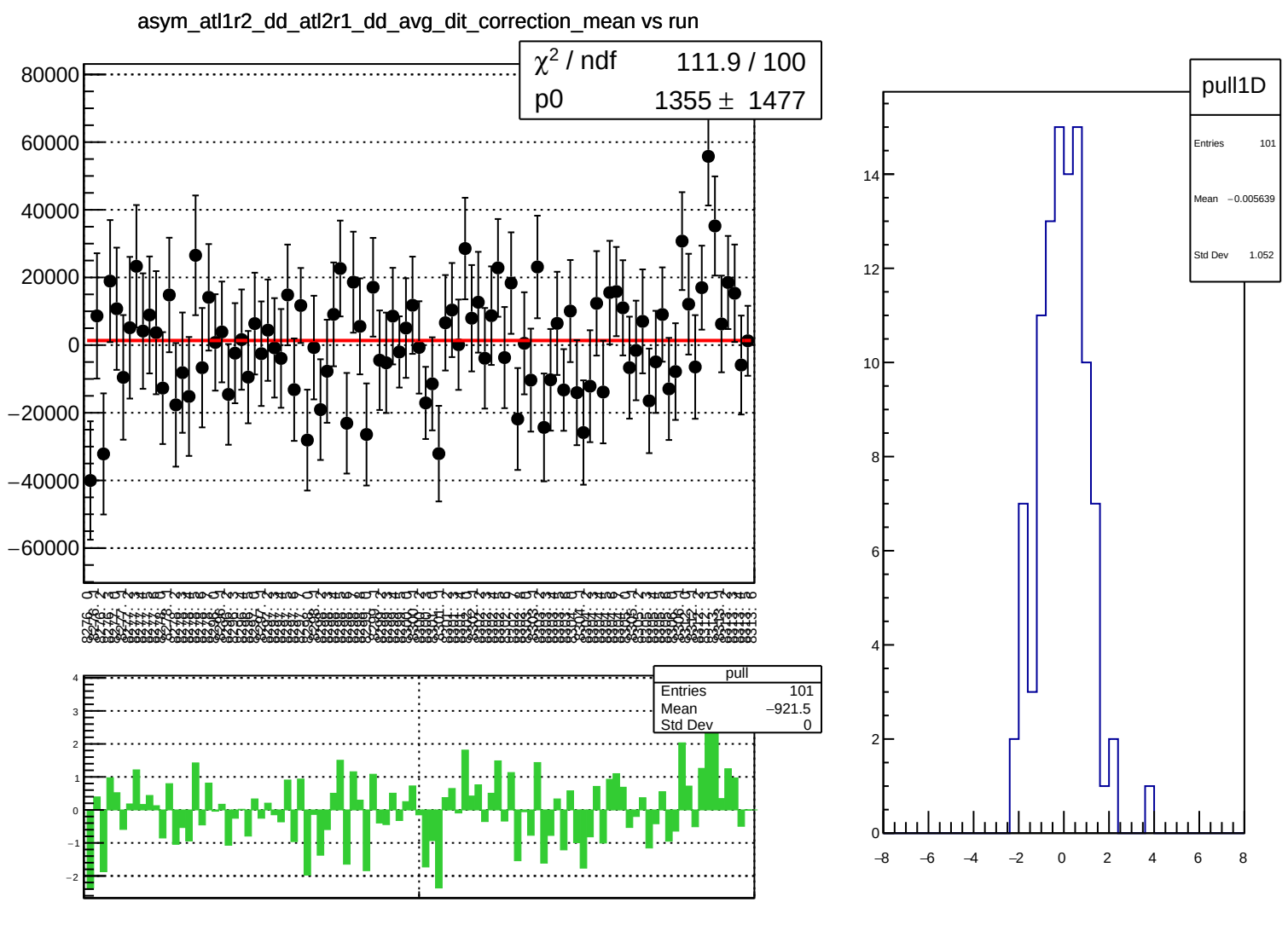

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 193.3 / 100
p0 1271 ± 0.9154
1320
1300
1280
1260
1240

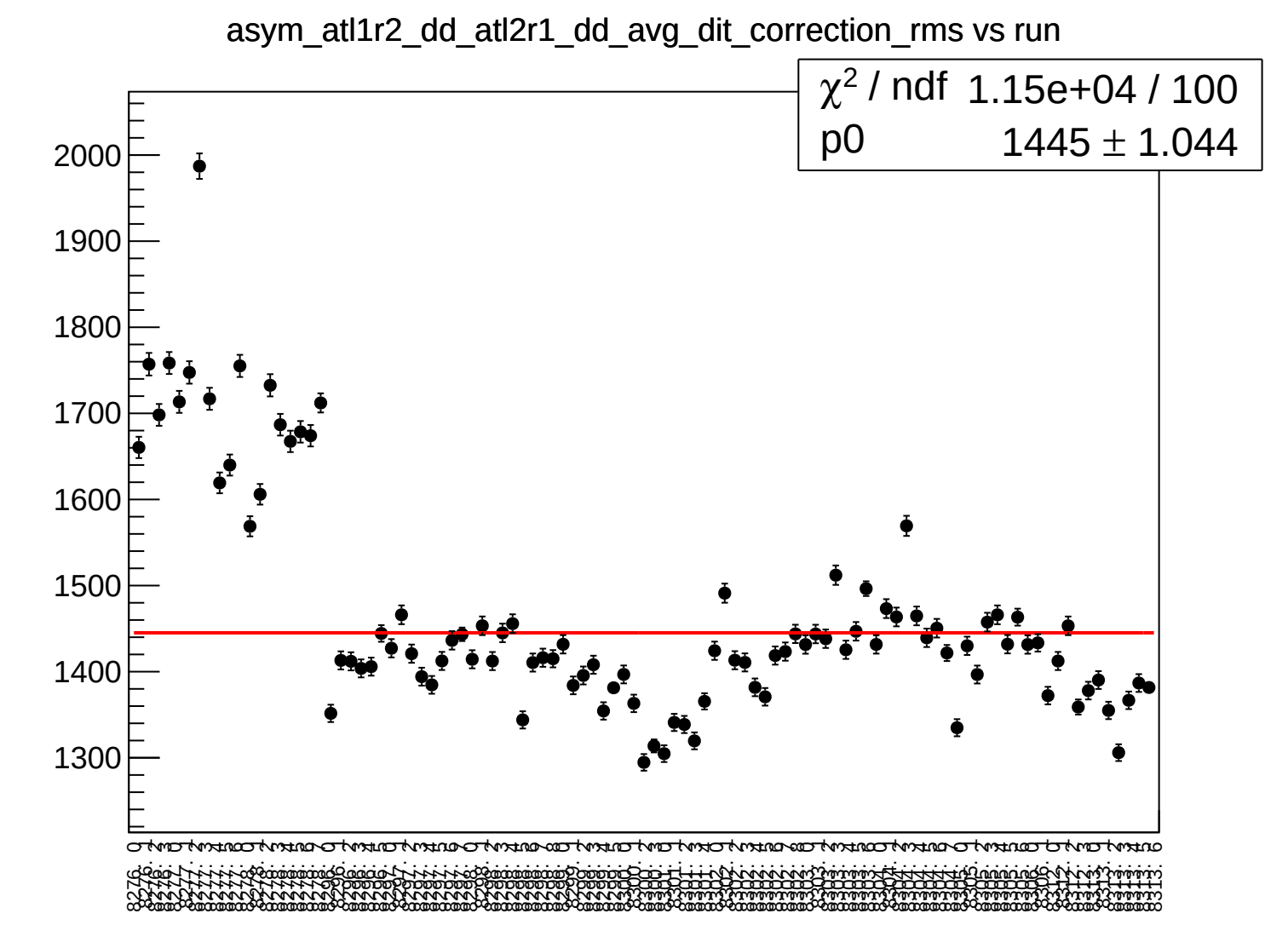

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 111.5 / 100
p0 1364 ± 1470
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −466.8
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.01043
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

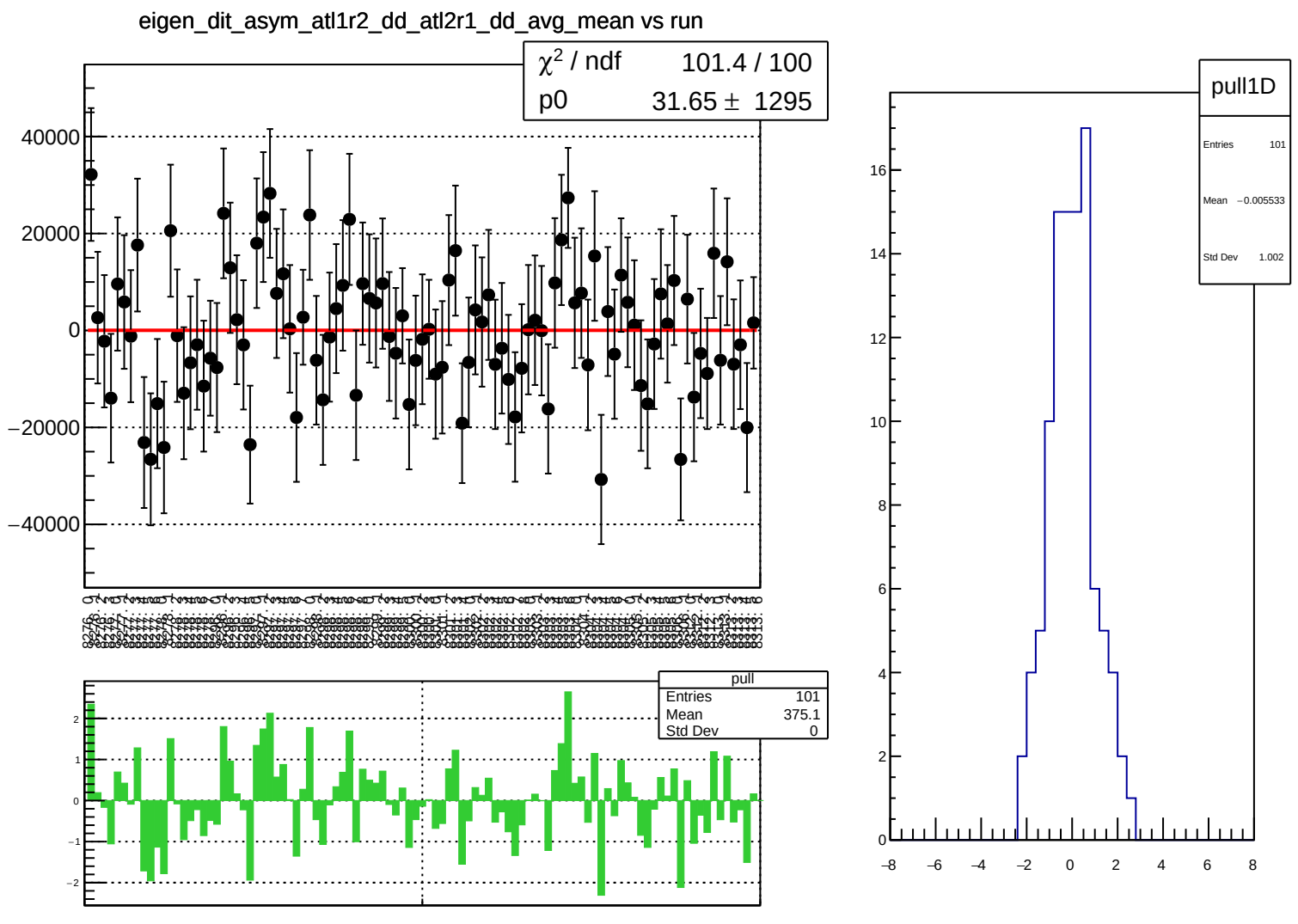

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.187e+04 / 100
p0 1439 ± 1.04
2000
1900
1800
1700
1600
1500
1400
1300
1200

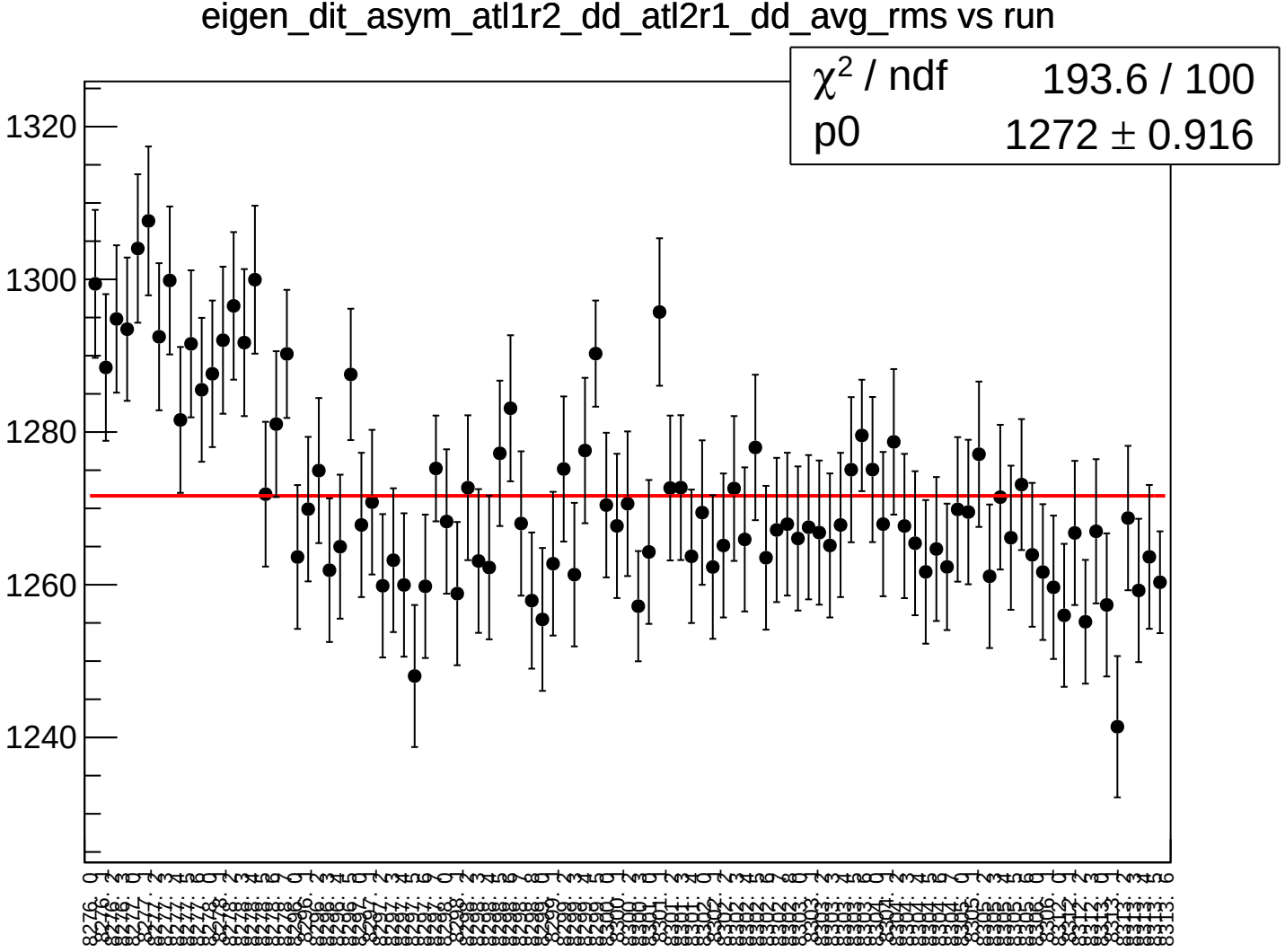

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 101.4 / 100
p0 31.65 ± 1295
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 375.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.005532
Std Dev 1.002
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

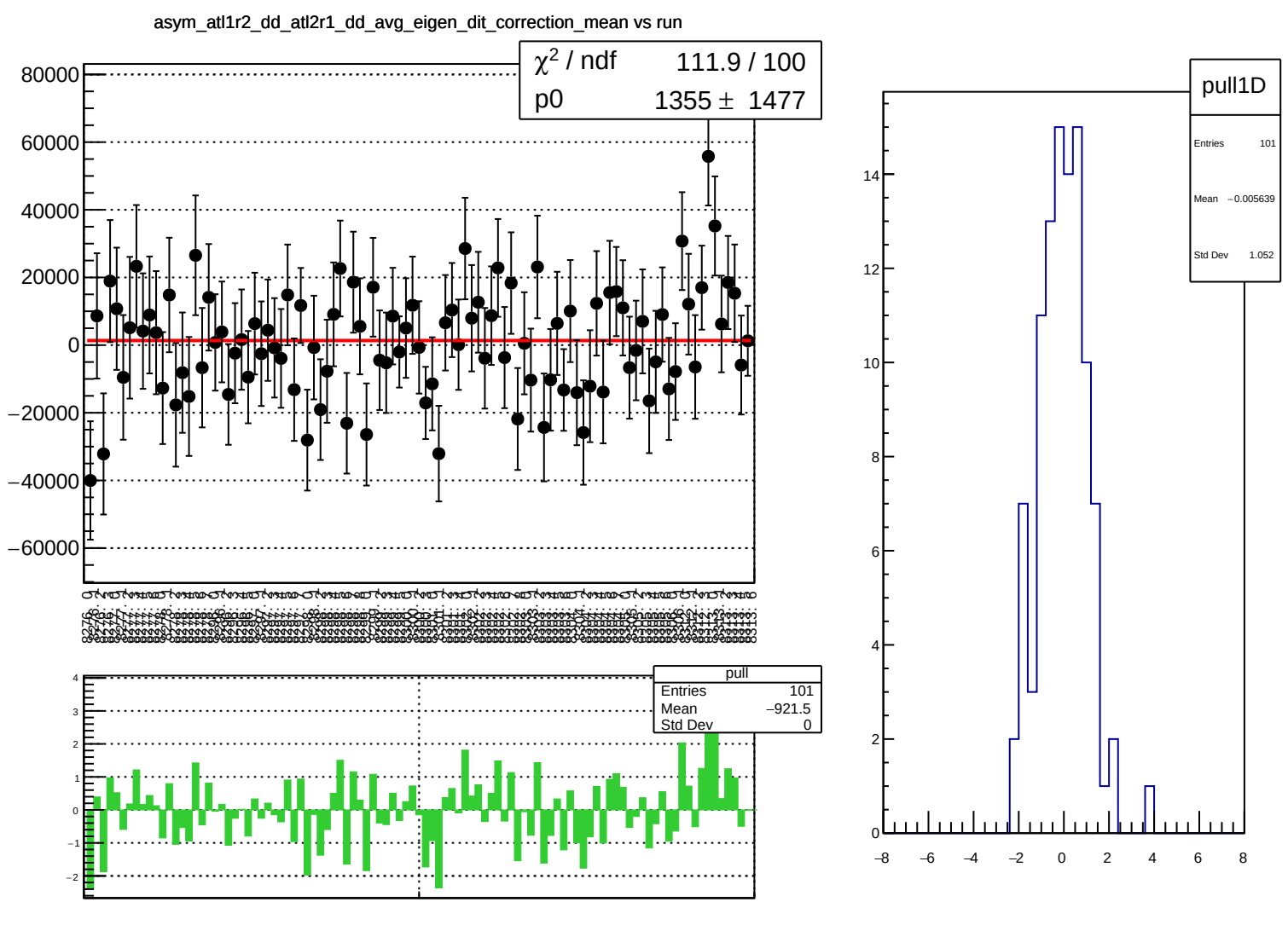

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 193.6 / 100
p0 1272 ± 0.916
1320
1300
1280
1260
1240

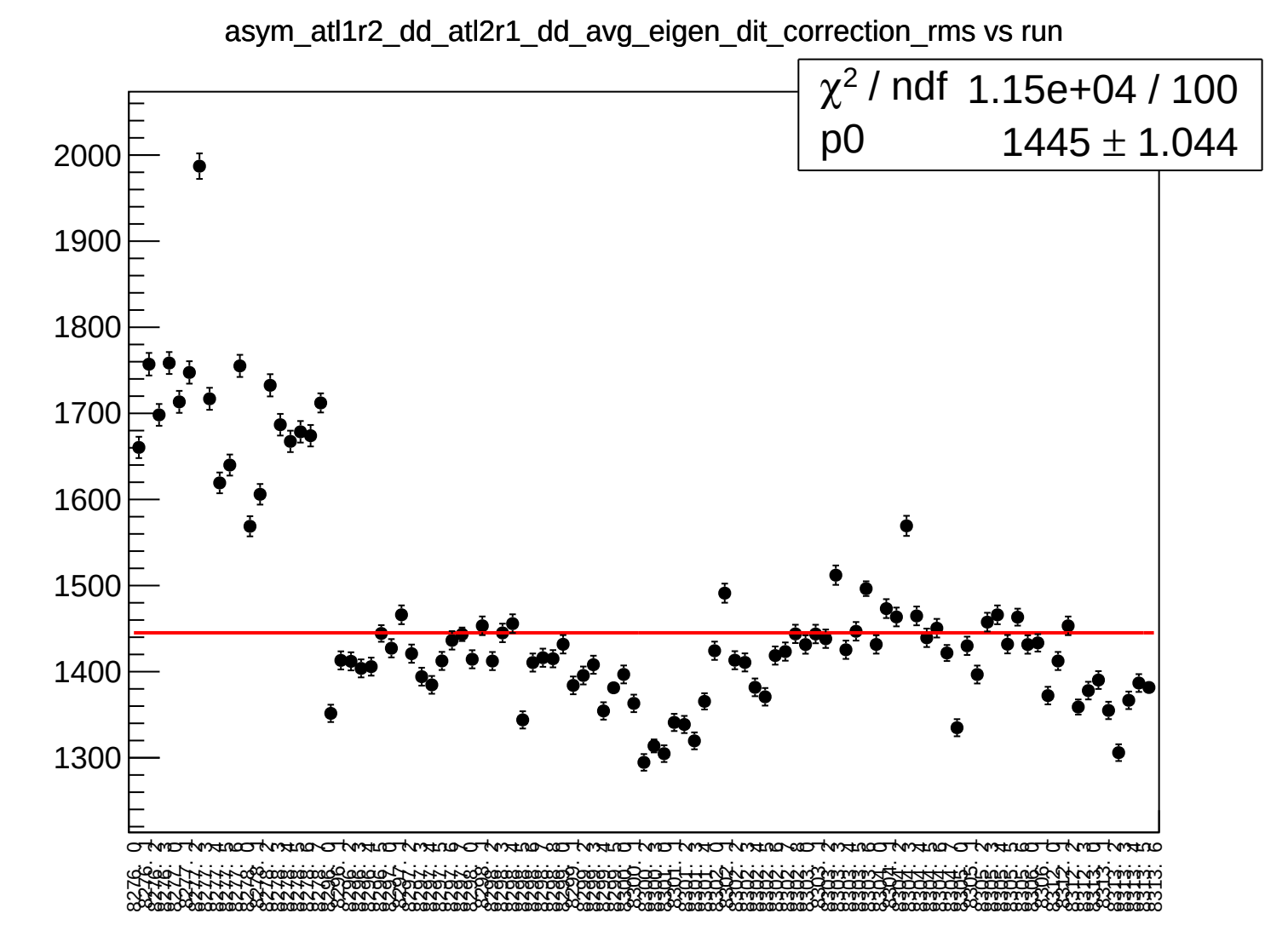

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 111.9 / 100
p0 1355 ± 1477
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −921.5
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.005639
Std Dev 1.052
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

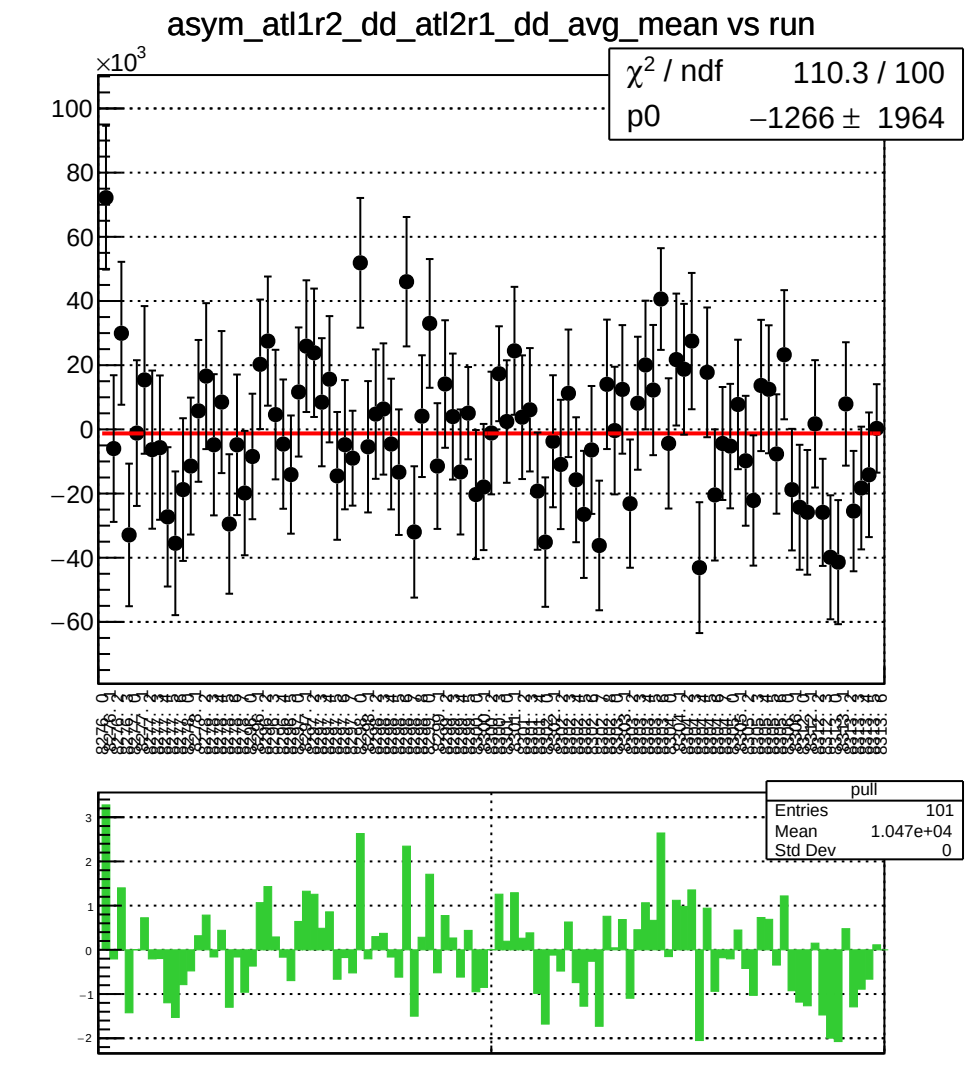

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 1.15e+04 / 100
p0 1445 ± 1.044
2000
1900
1800
1700
1600
1500
1400
1300

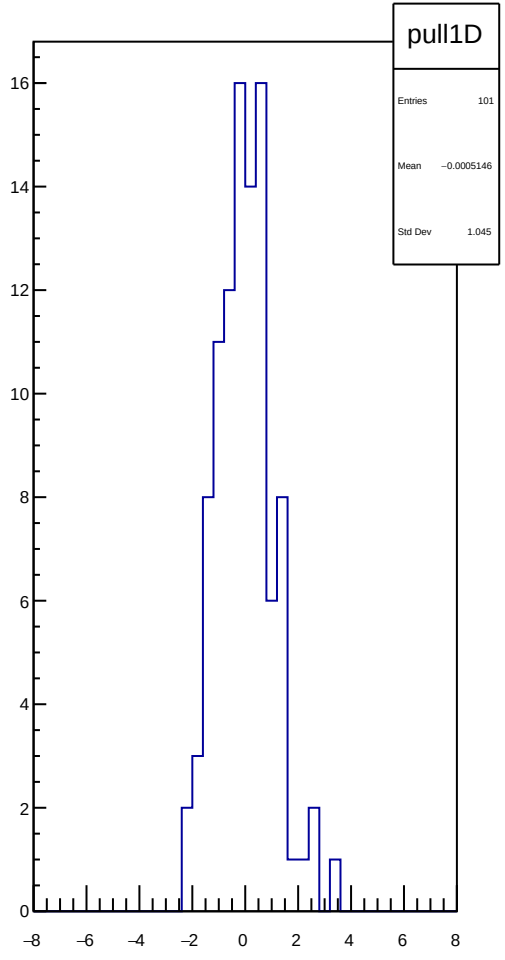

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 101.4 / 100
p0 31.65 ± 1295
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 375.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.005533
Std Dev 1.002
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 193.6 / 100
p0 1272 ± 0.916
1320
1300
1280
1260
1240

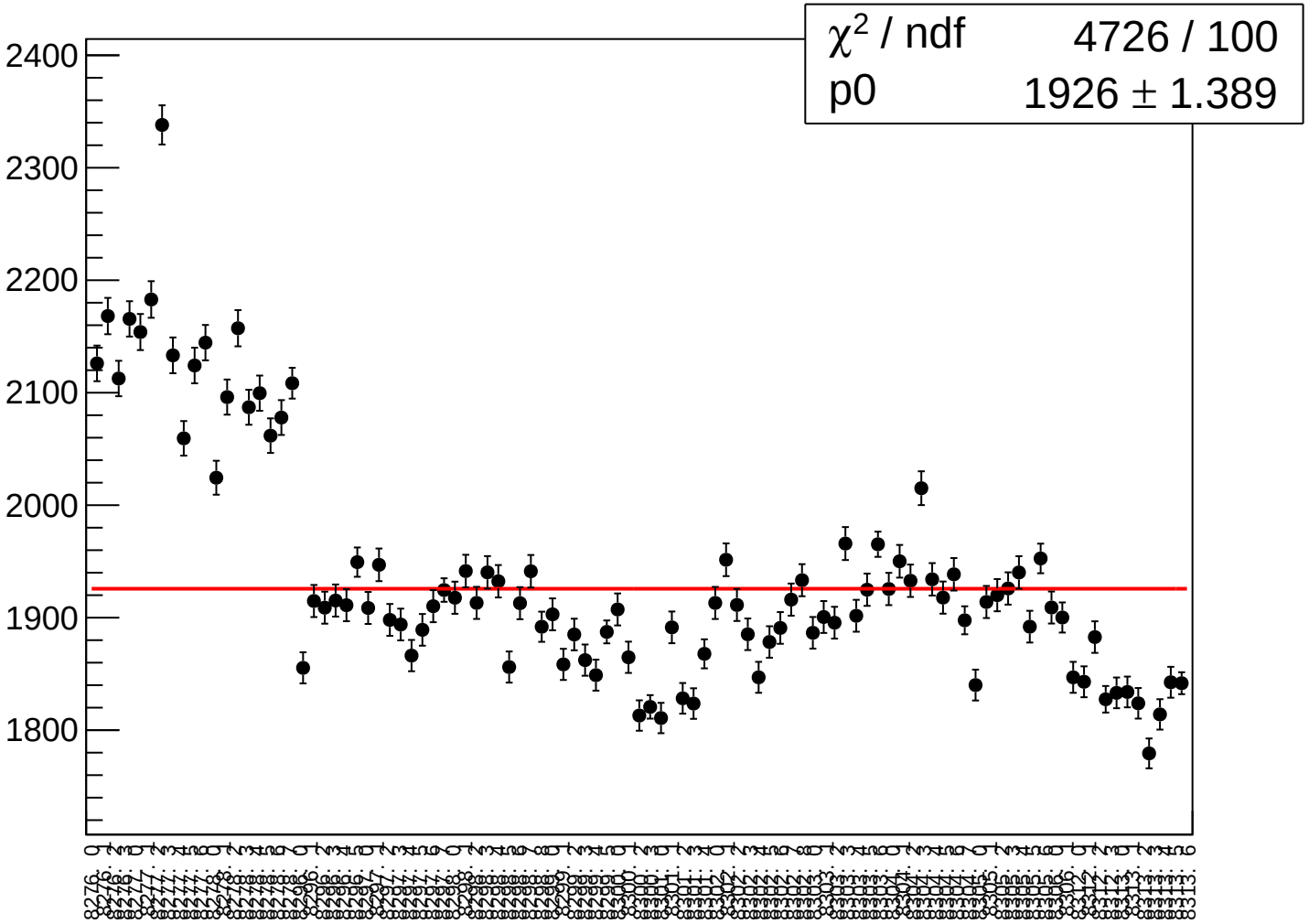

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 111.9 / 100
p0 1355 ± 1477
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −921.5
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.005639
Std Dev 1.052
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

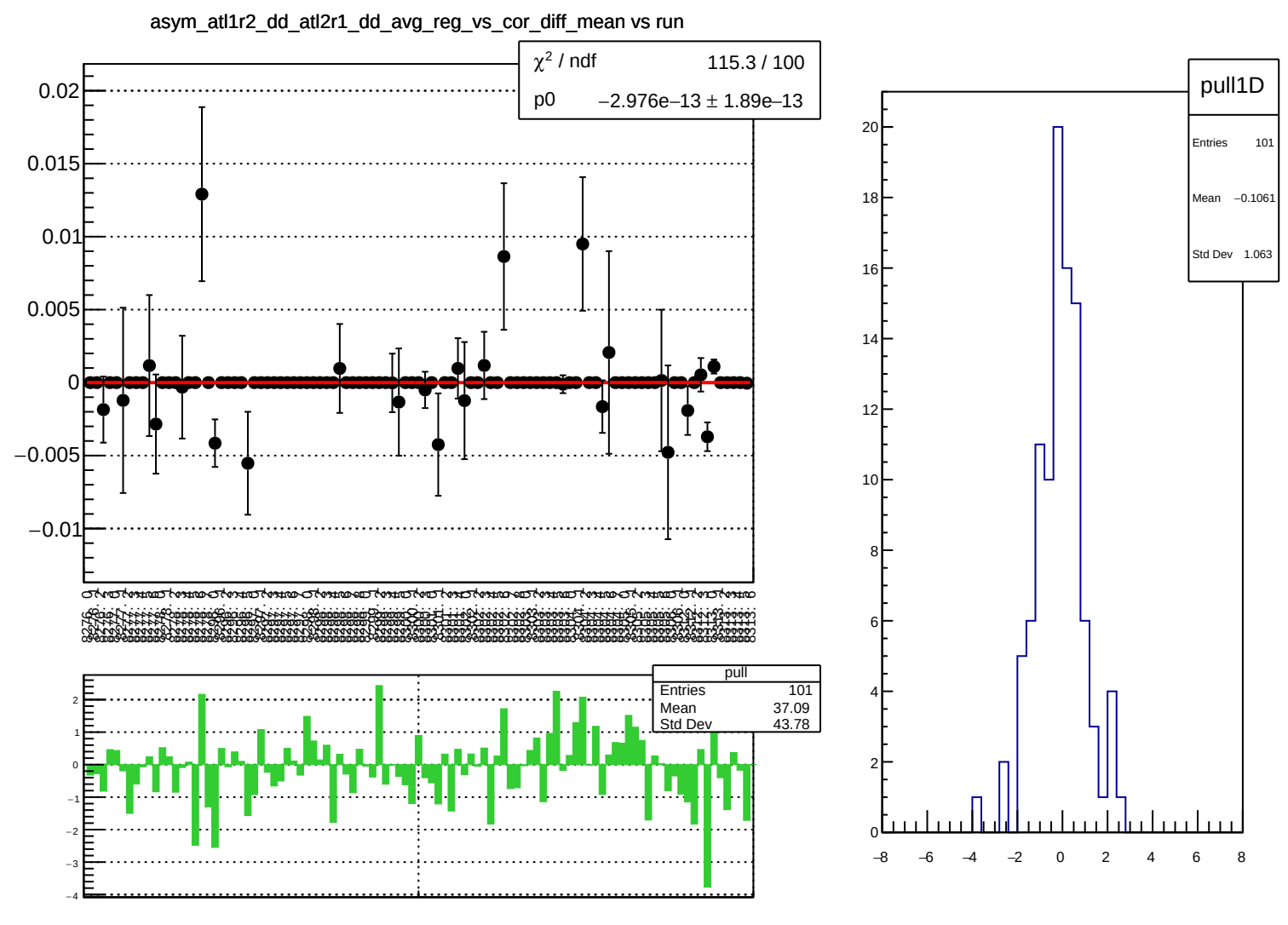

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.15e+04 / 100
p0 1445 ± 1.044
2000
1900
1800
1700
1600
1500
1400
1300

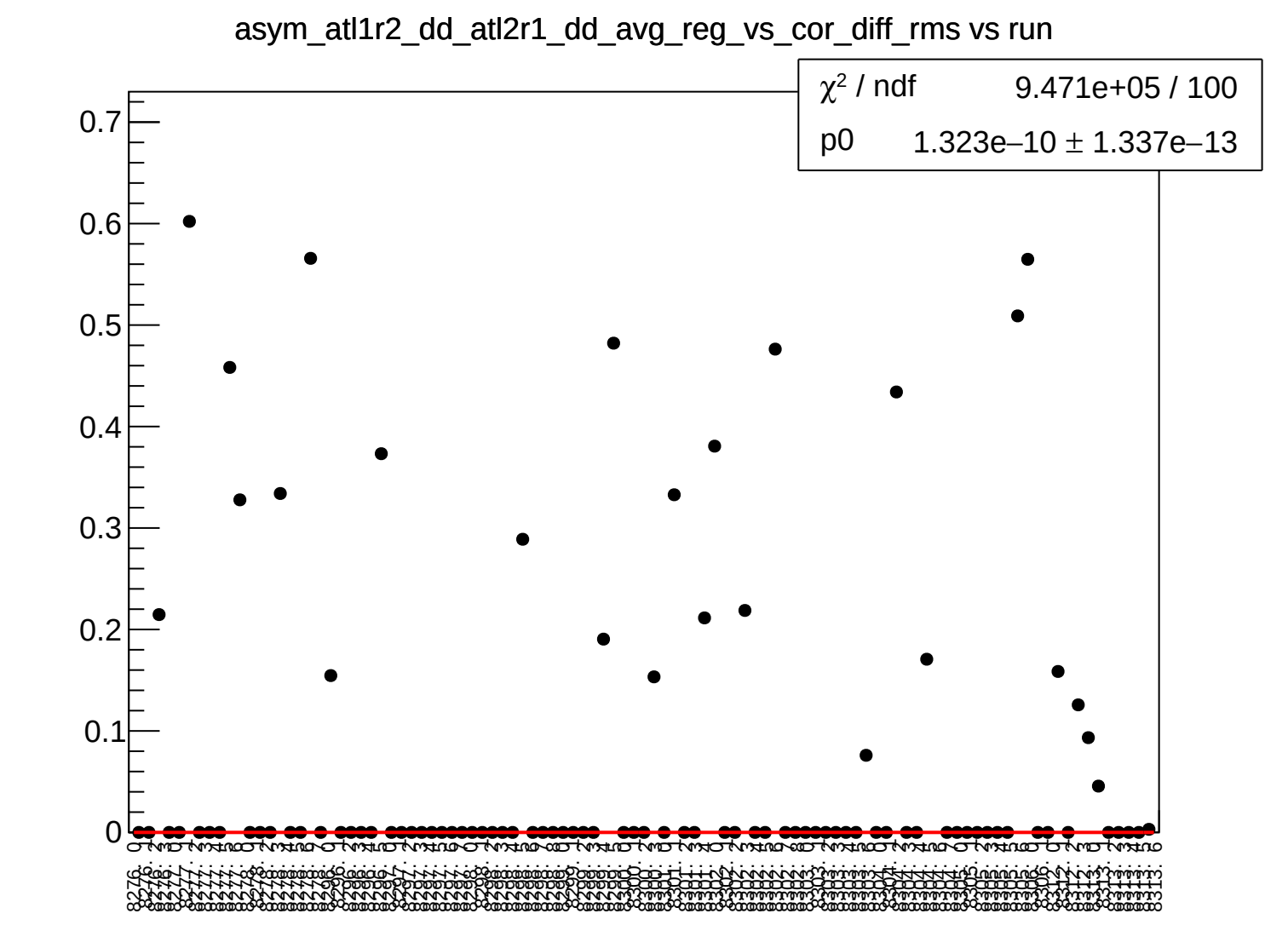

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
×10^3
χ^2 / ndf 110.3 / 100
p0 −1266 ± 1964
100
80
60
40
20
0
−20
−40
−60
pull
Entries 101
Mean 1.047e+04
Std Dev 0
3
2
1
0
−1
−2

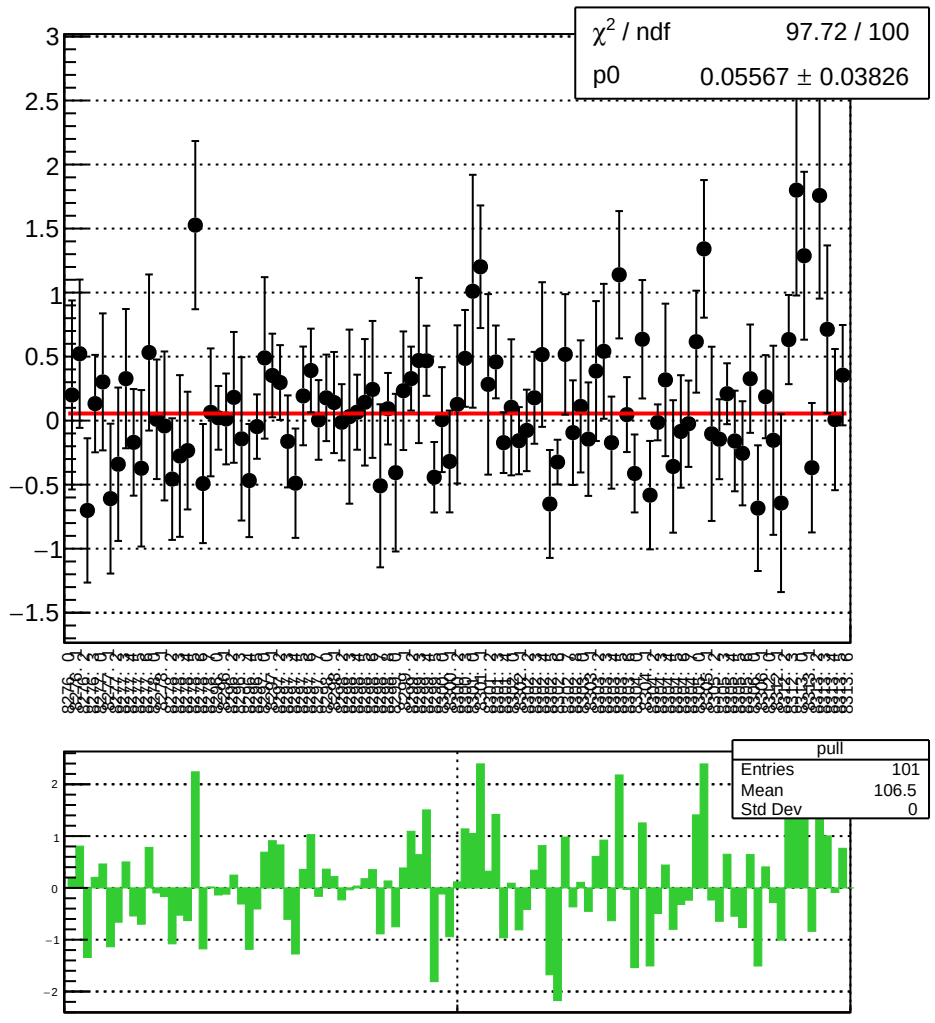

pull1D
Entries 101
Mean −0.0005146
Std Dev 1.045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

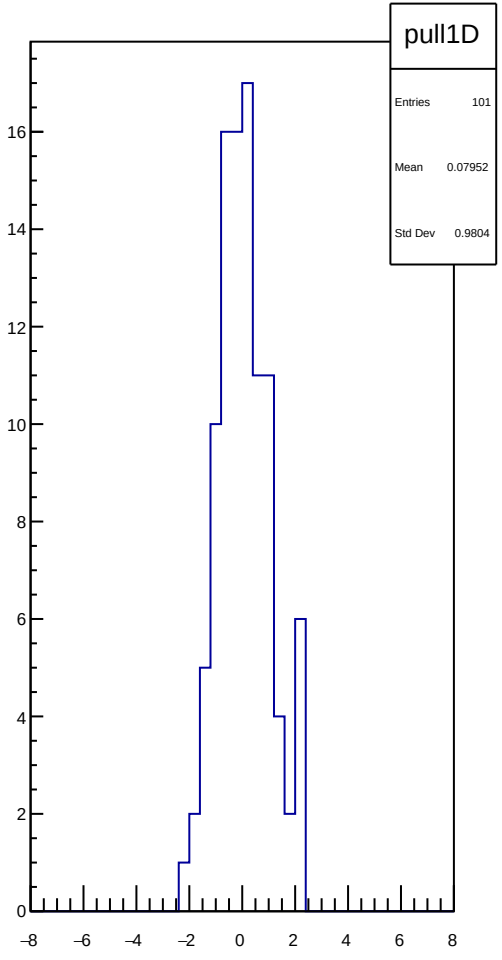
asym_atl1r2_dd_atl2r1_dd_avg_rms vs run

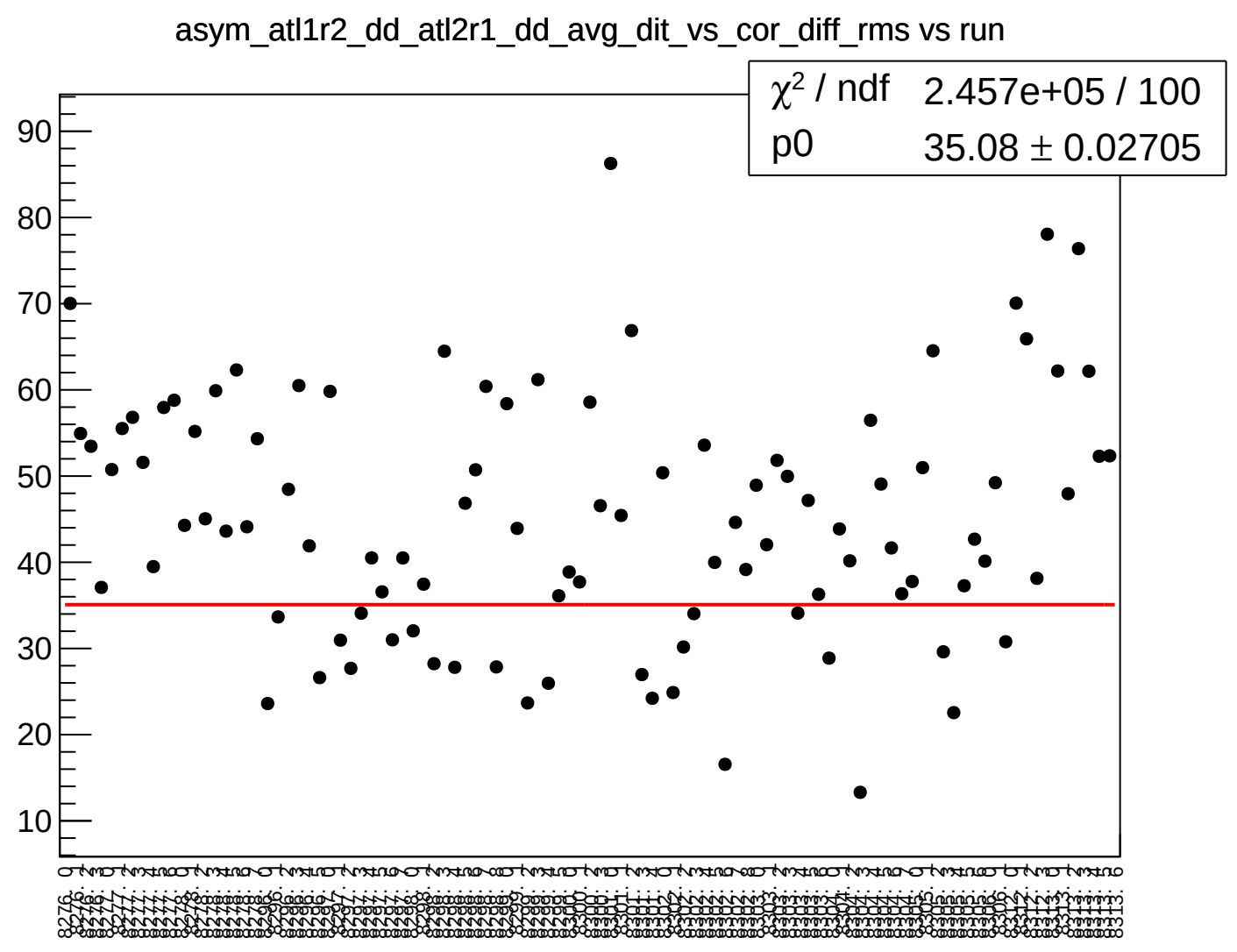


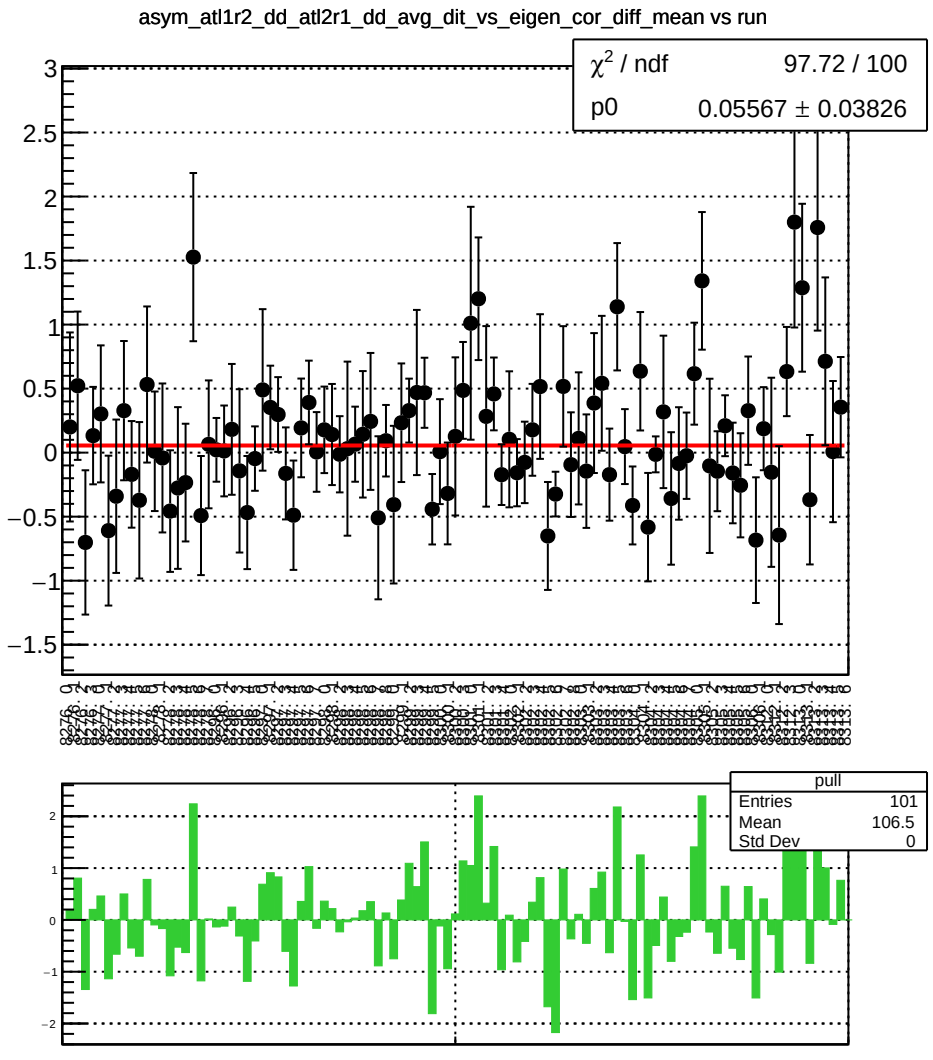

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 115.3 / 100
p0 −2.976e−13 ± 1.89e−13
pull
Entries 101
Mean 37.09
Std Dev 43.78
pull1D
Entries 101
Mean −0.1061
Std Dev 1.063

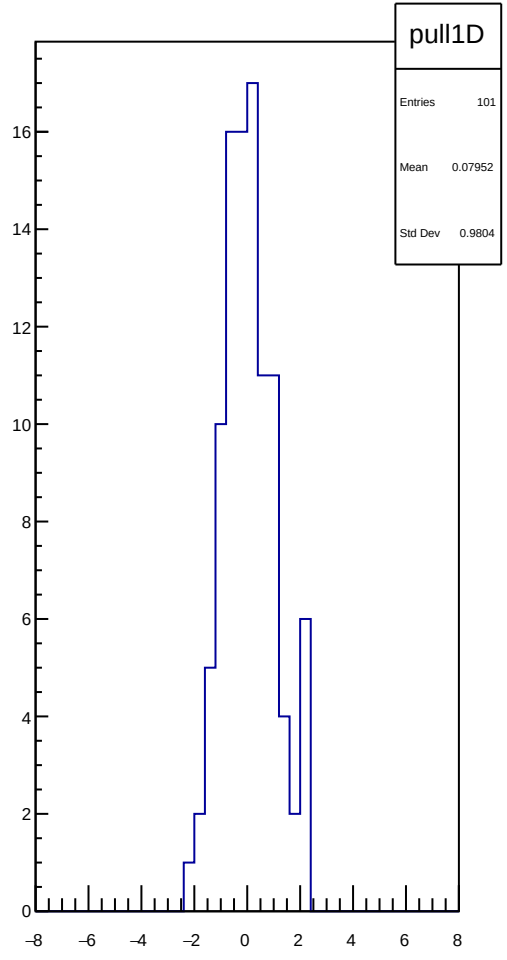

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.471e+05 / 100
p0 1.323e−10 ± 1.337e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

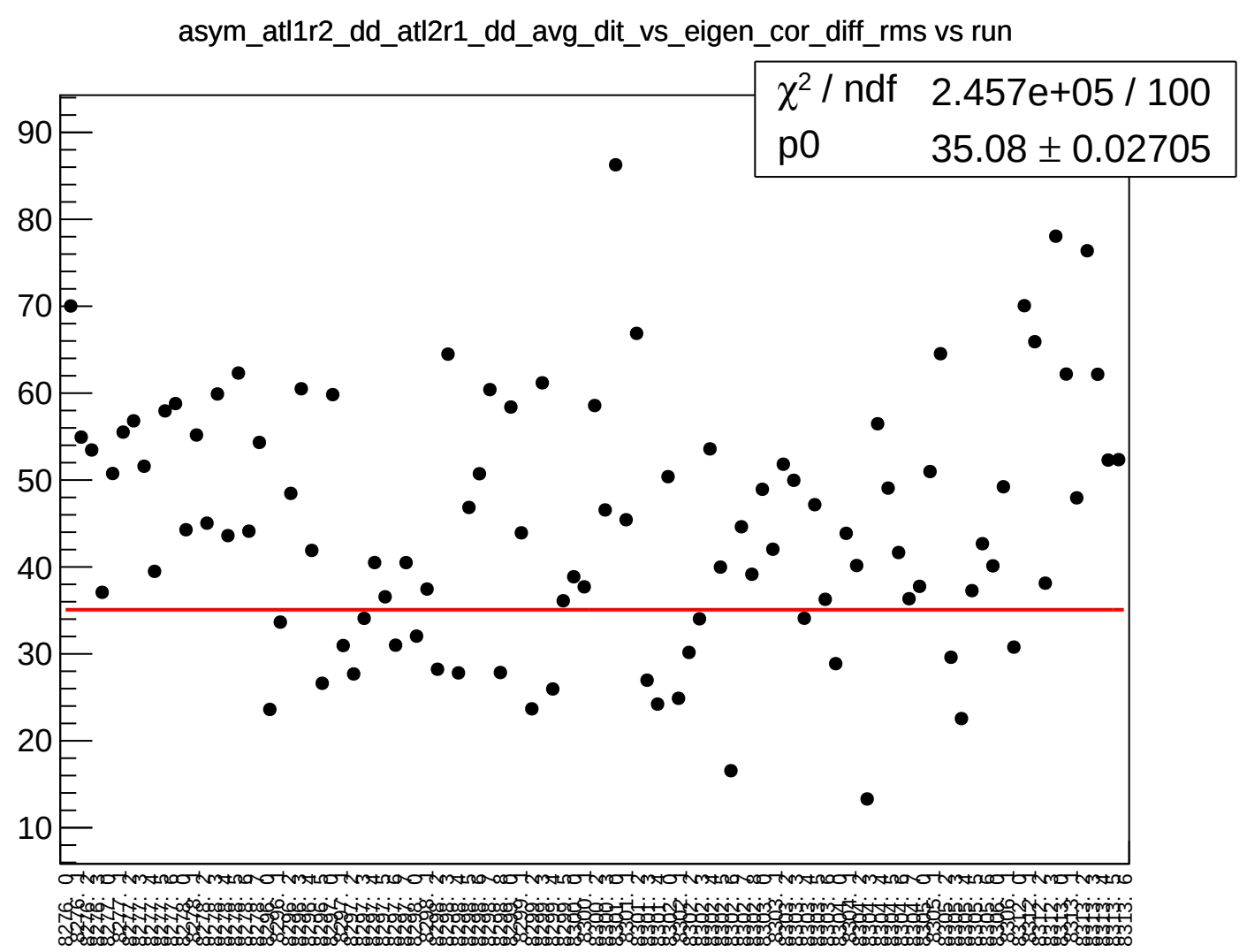

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 97.72 / 100
p0 0.05567 ± 0.03826
pull
Entries 101
Mean 106.5
Std Dev 0

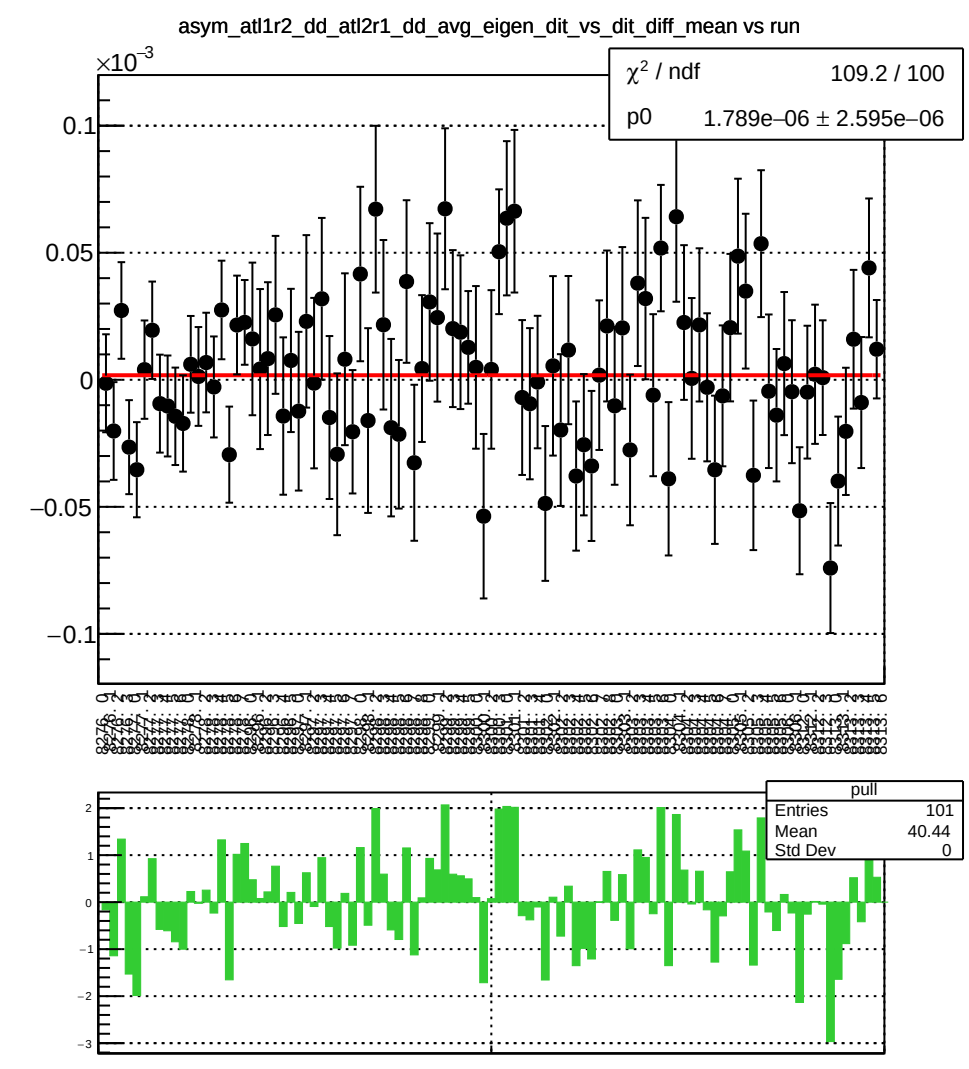

pull1D
Entries 101
Mean 0.07952
Std Dev 0.9804

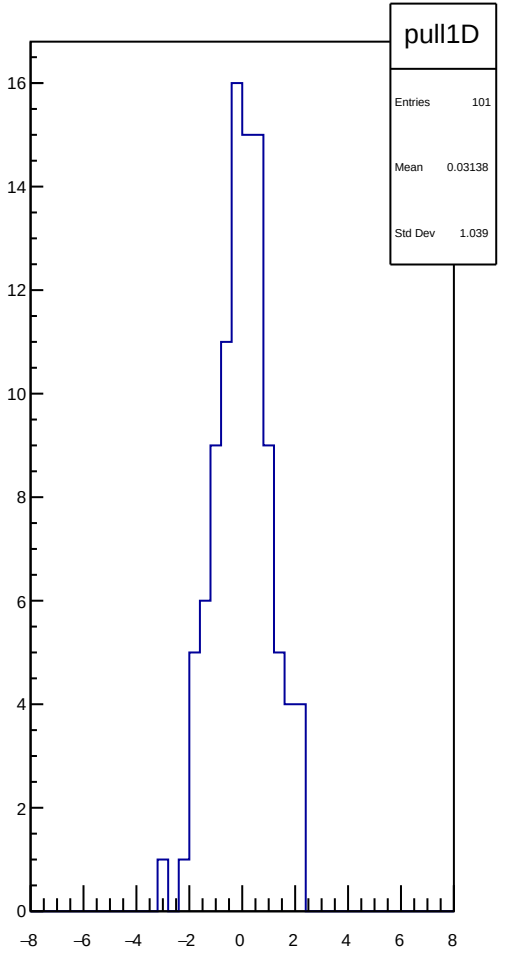

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.457e+05 / 100
p0 35.08 ± 0.02705
90
80
70
60
50
40
30
20
10

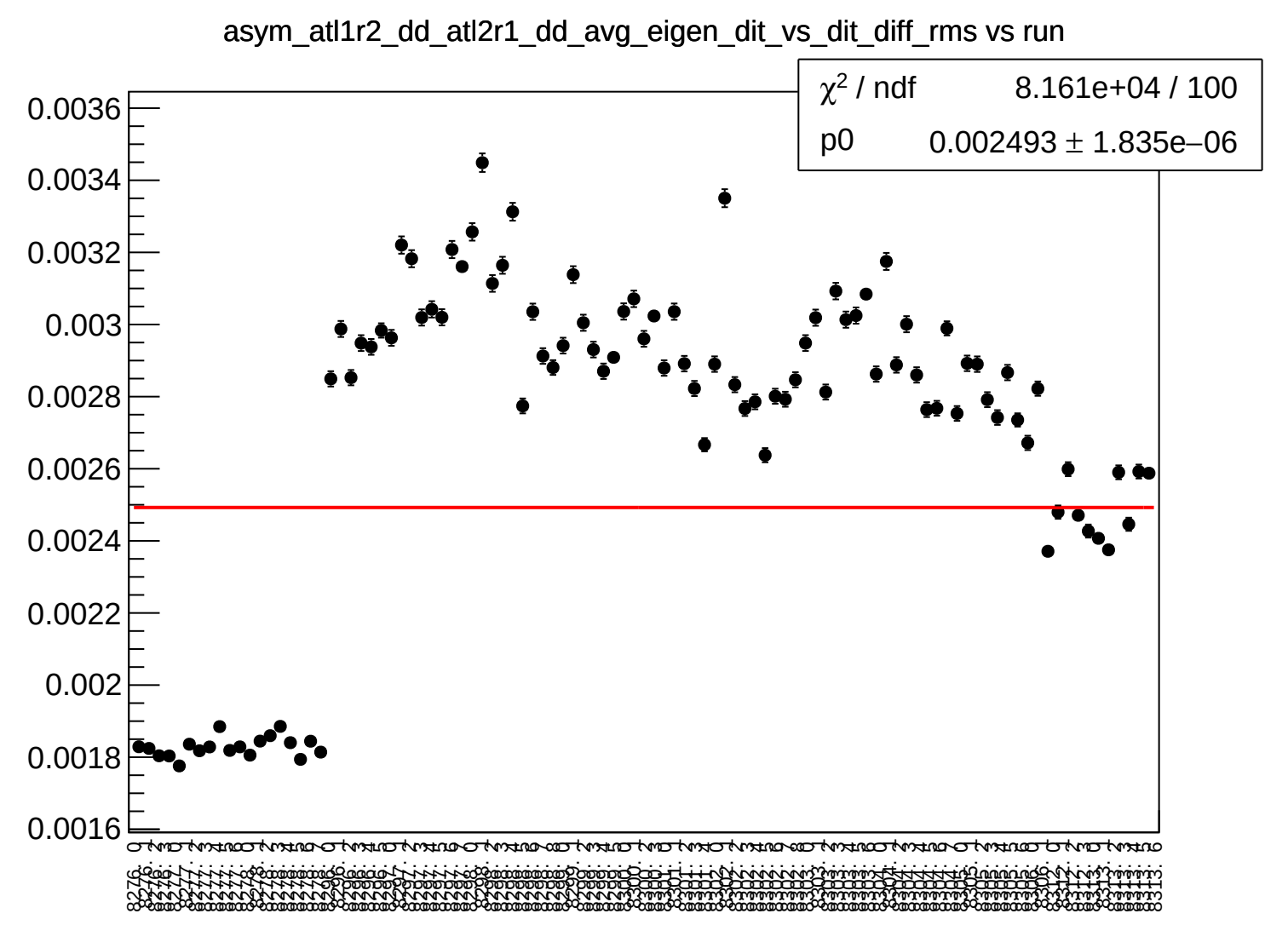

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.72 / 100
p0 0.05567 ± 0.03826
pull
Entries 101
Mean 106.5
Std Dev 0

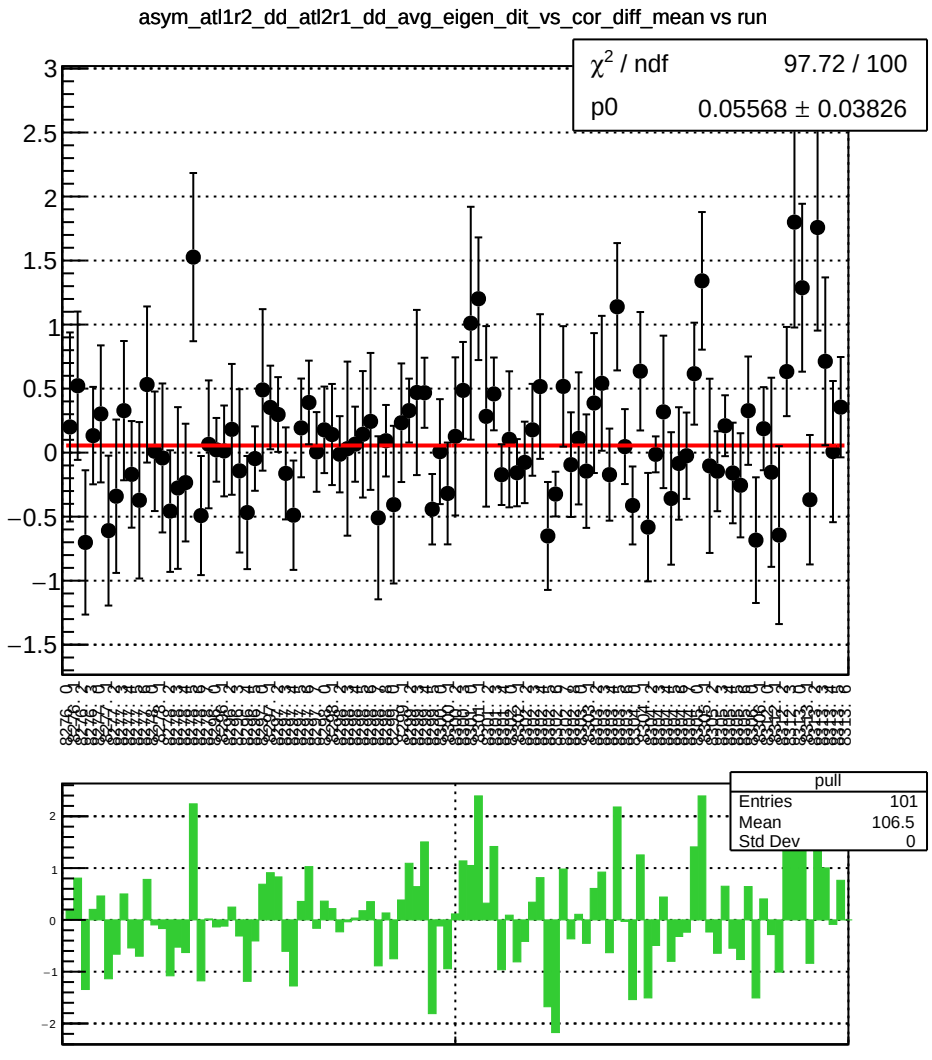

pull1D
Entries 101
Mean 0.07952
Std Dev 0.9804

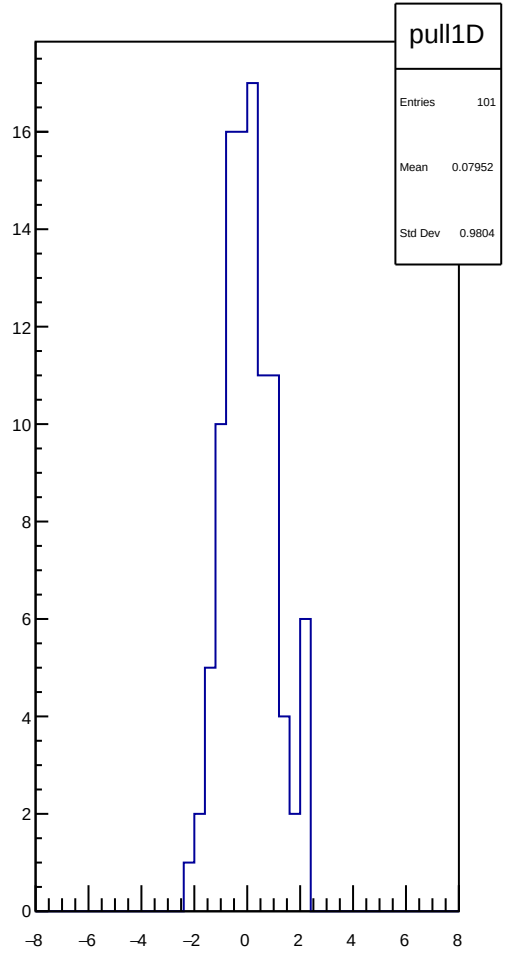

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.457e+05 / 100
p0 35.08 ± 0.02705
90
80
70
60
50
40
30
20
10

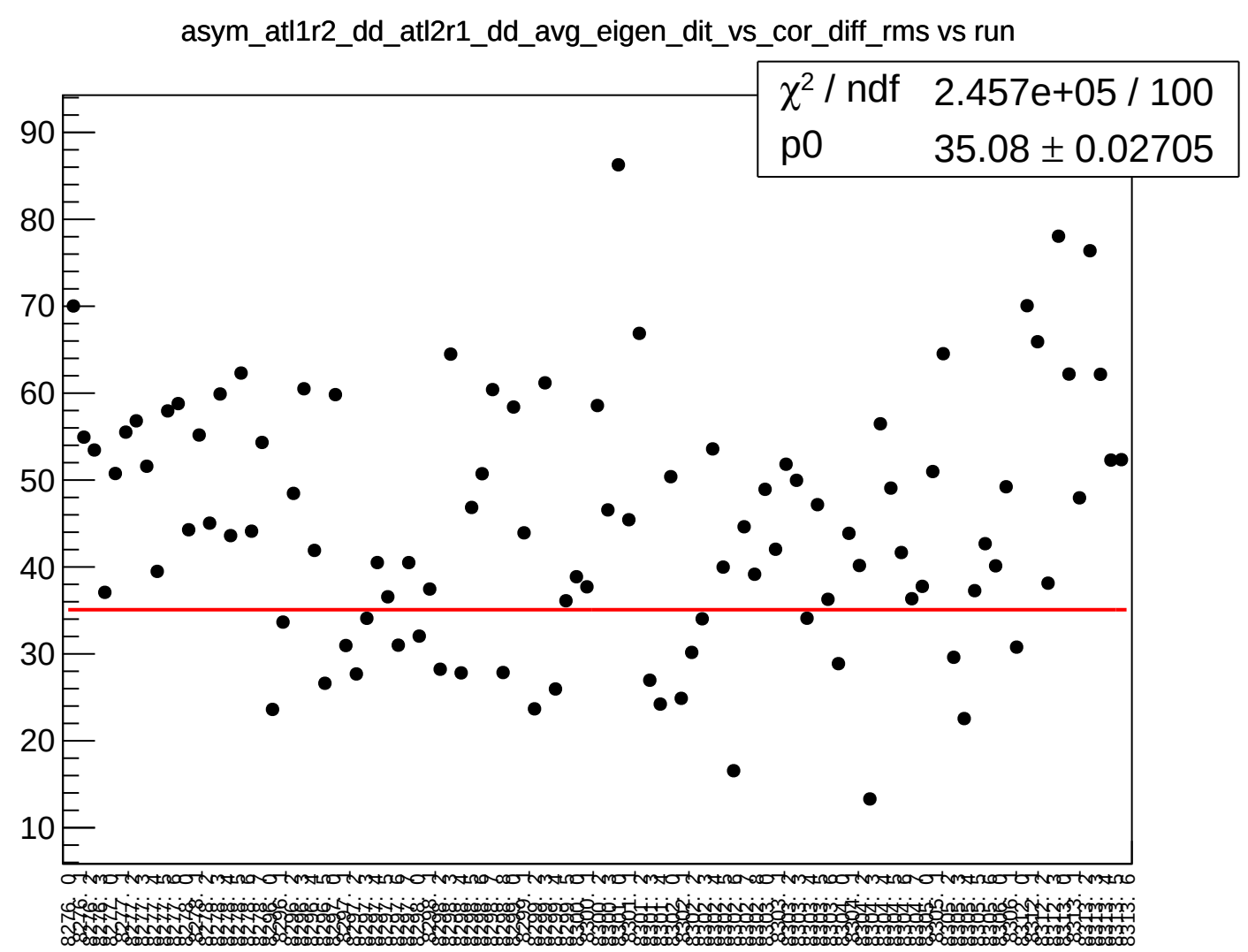

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 109.2 / 100
p0 1.789e−06 ± 2.595e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 101
Mean 40.44
Std Dev 0
2
1
0
−1
−2
−3

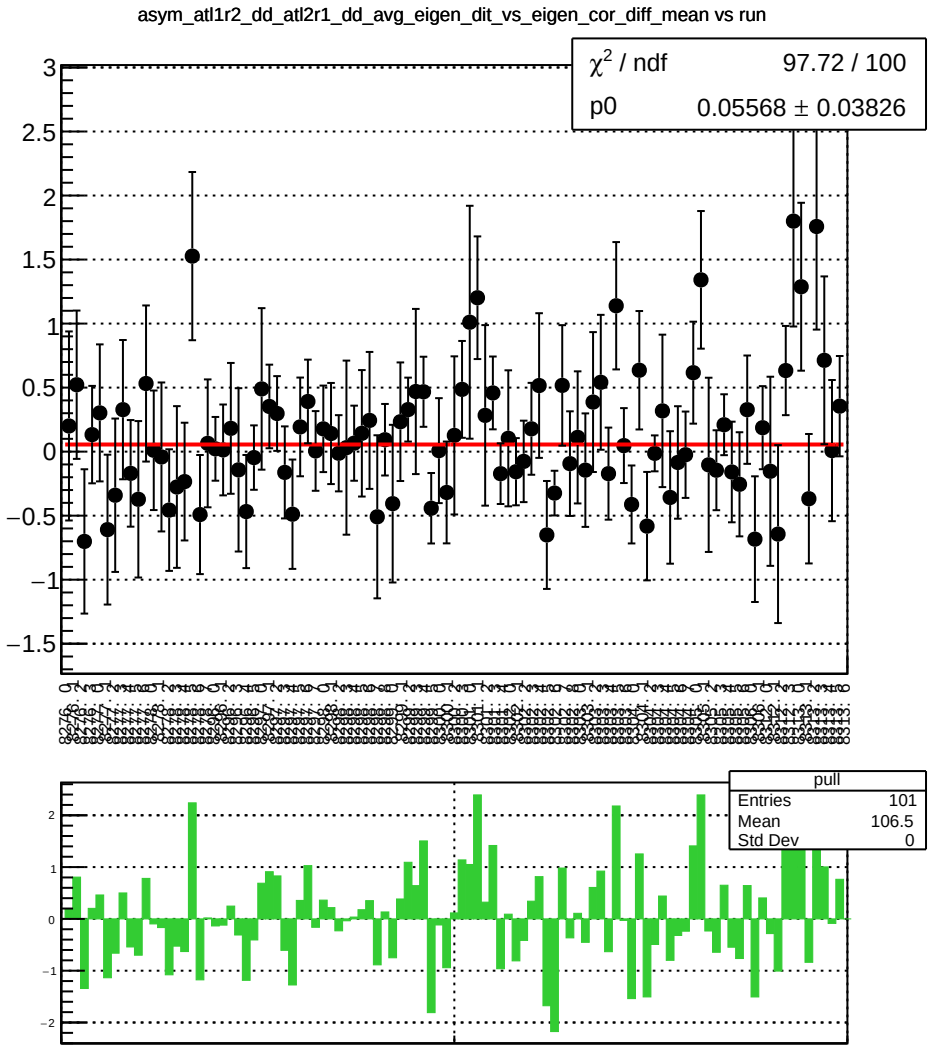

pull1D
Entries 101
Mean 0.03138
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

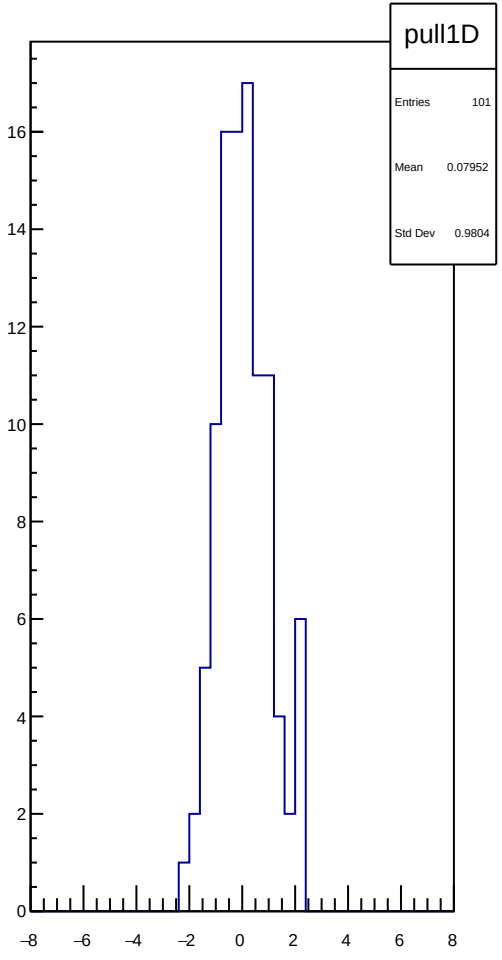

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.161e+04 / 100
p0 0.002493 ± 1.835e−06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016

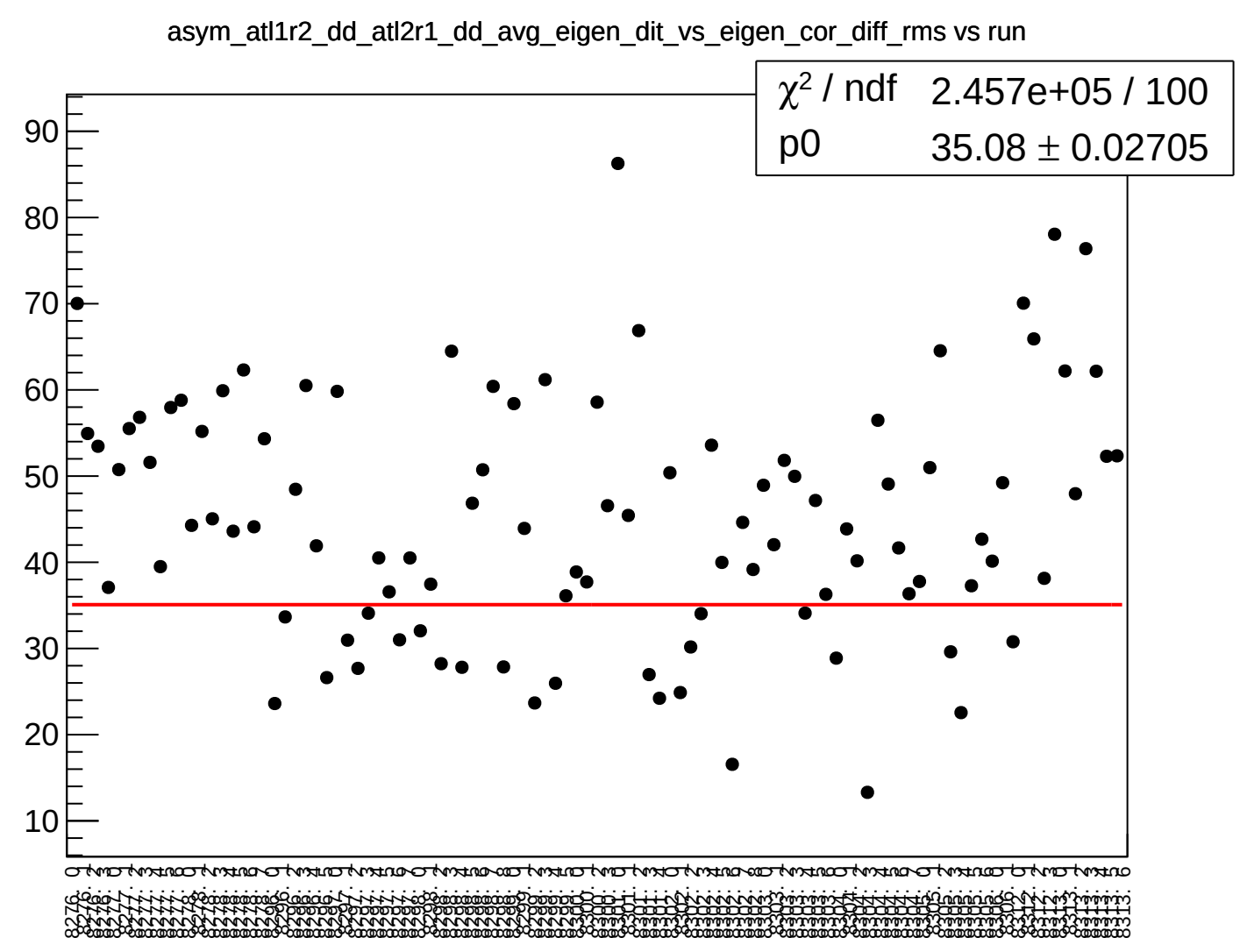

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.72 / 100
p0 0.05568 ± 0.03826
pull
Entries 101
Mean 106.5
Std Dev 0

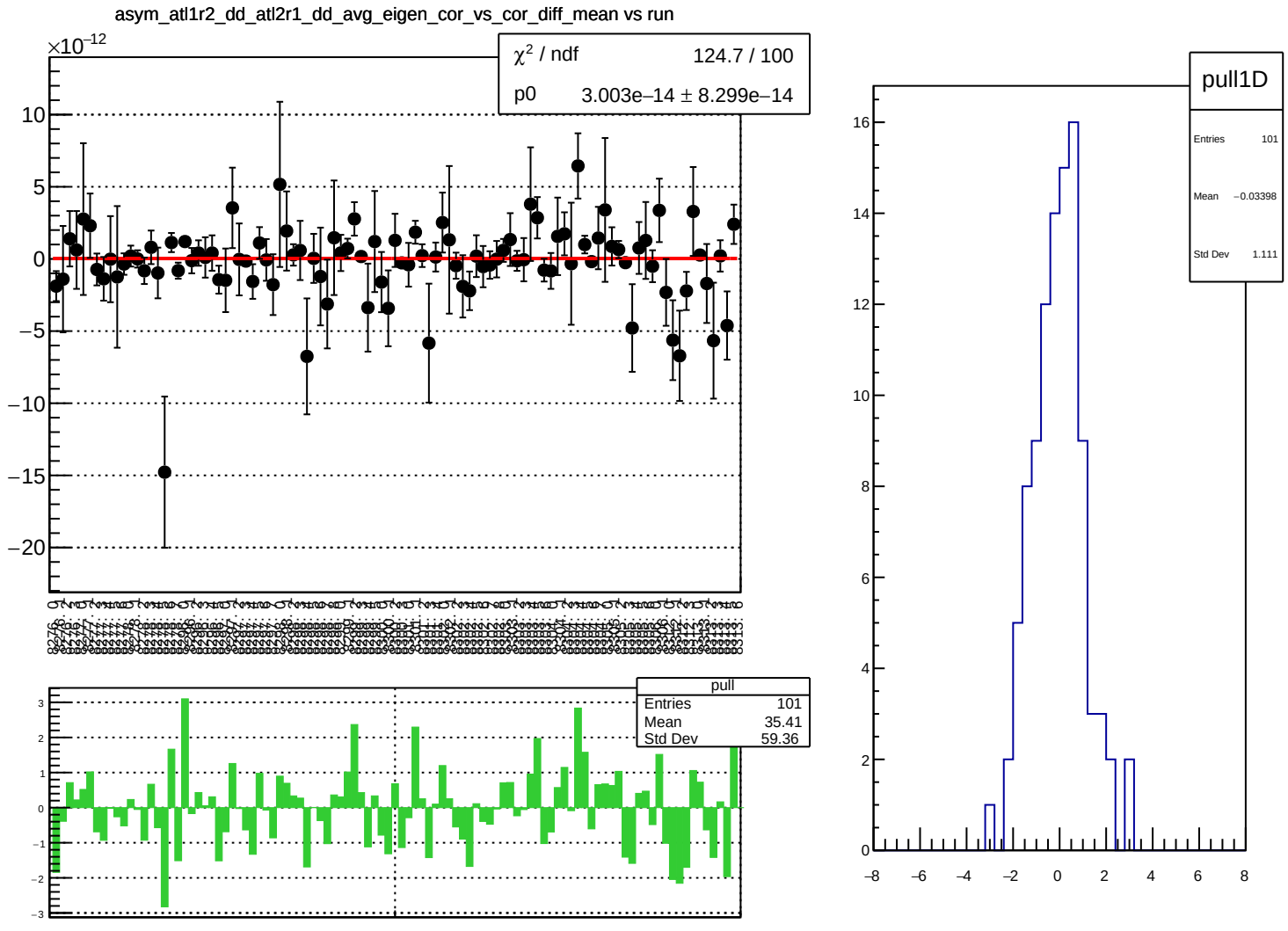

pull1D
Entries 101
Mean 0.07952
Std Dev 0.9804

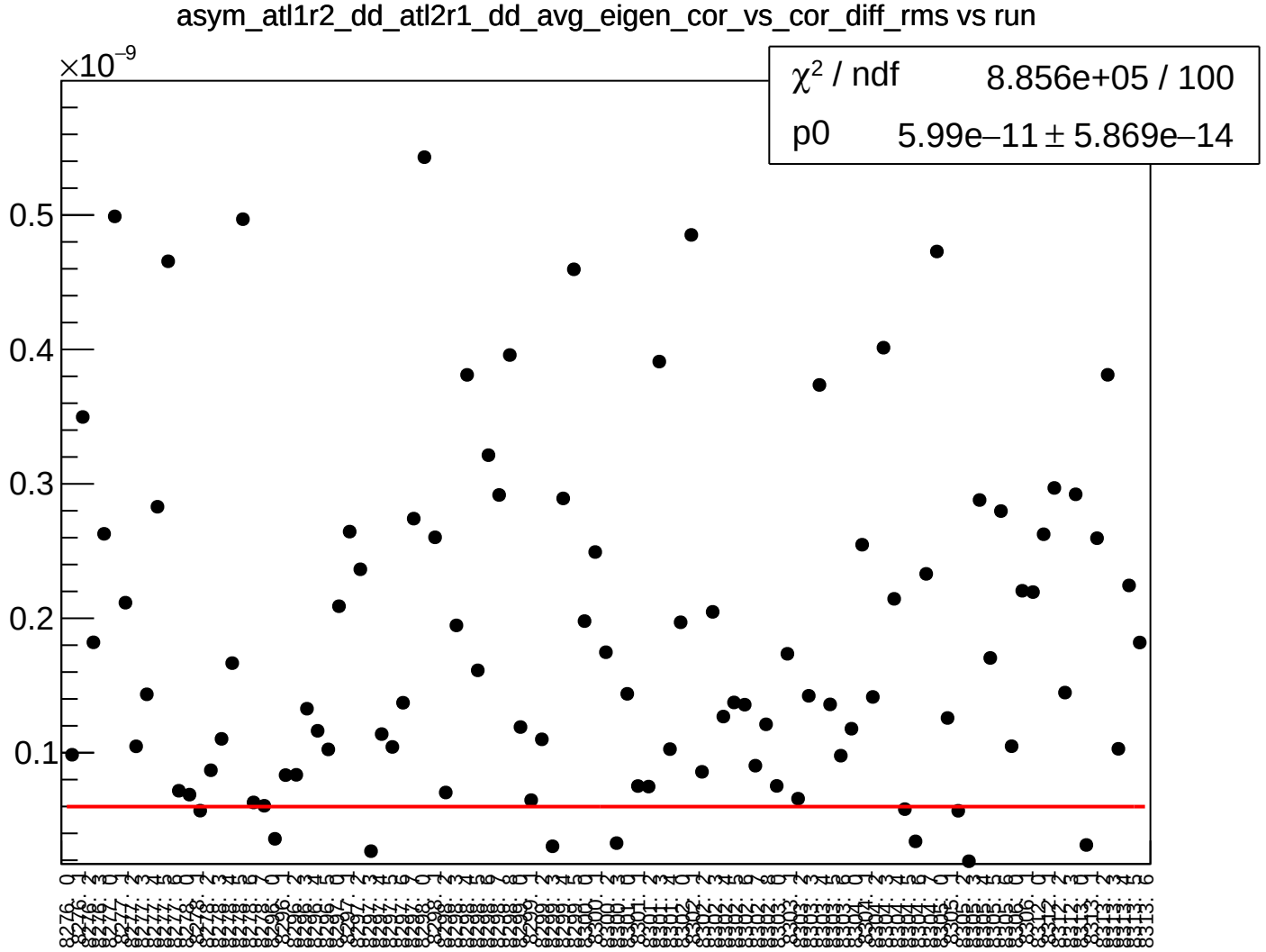

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.457e+05 / 100
p0 35.08 ± 0.02705
90
80
70
60
50
40
30
20
10

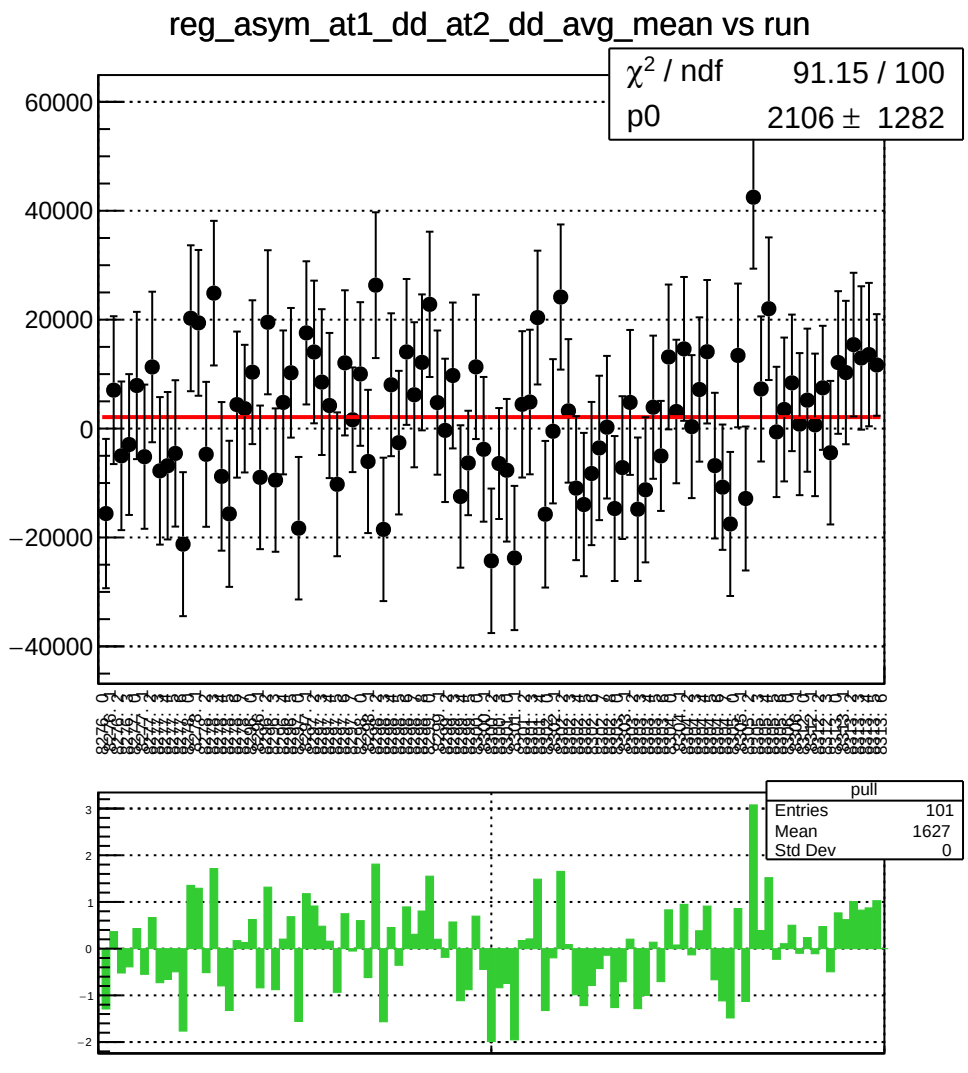

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.72 / 100
p0 0.05568 ± 0.03826
pull
Entries 101
Mean 106.5
Std Dev 0

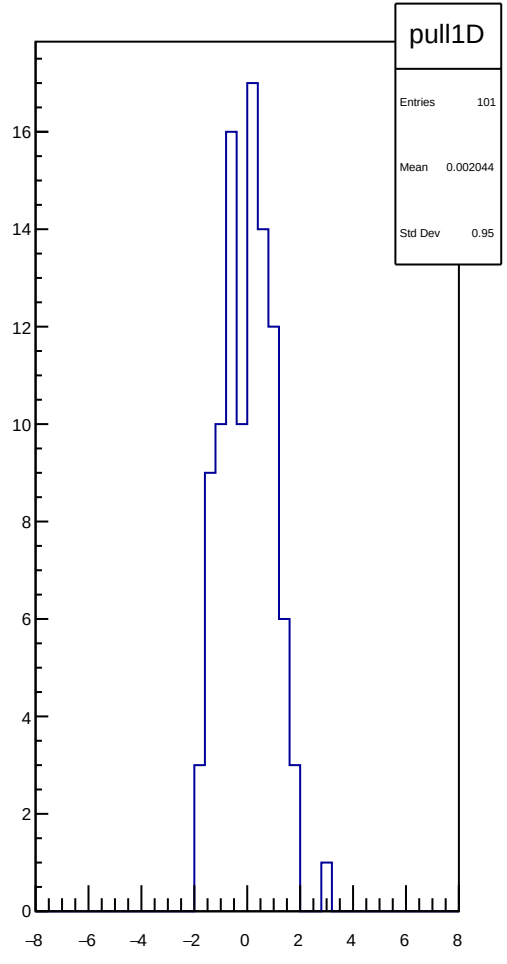

pull1D
Entries 101
Mean 0.07952
Std Dev 0.9804

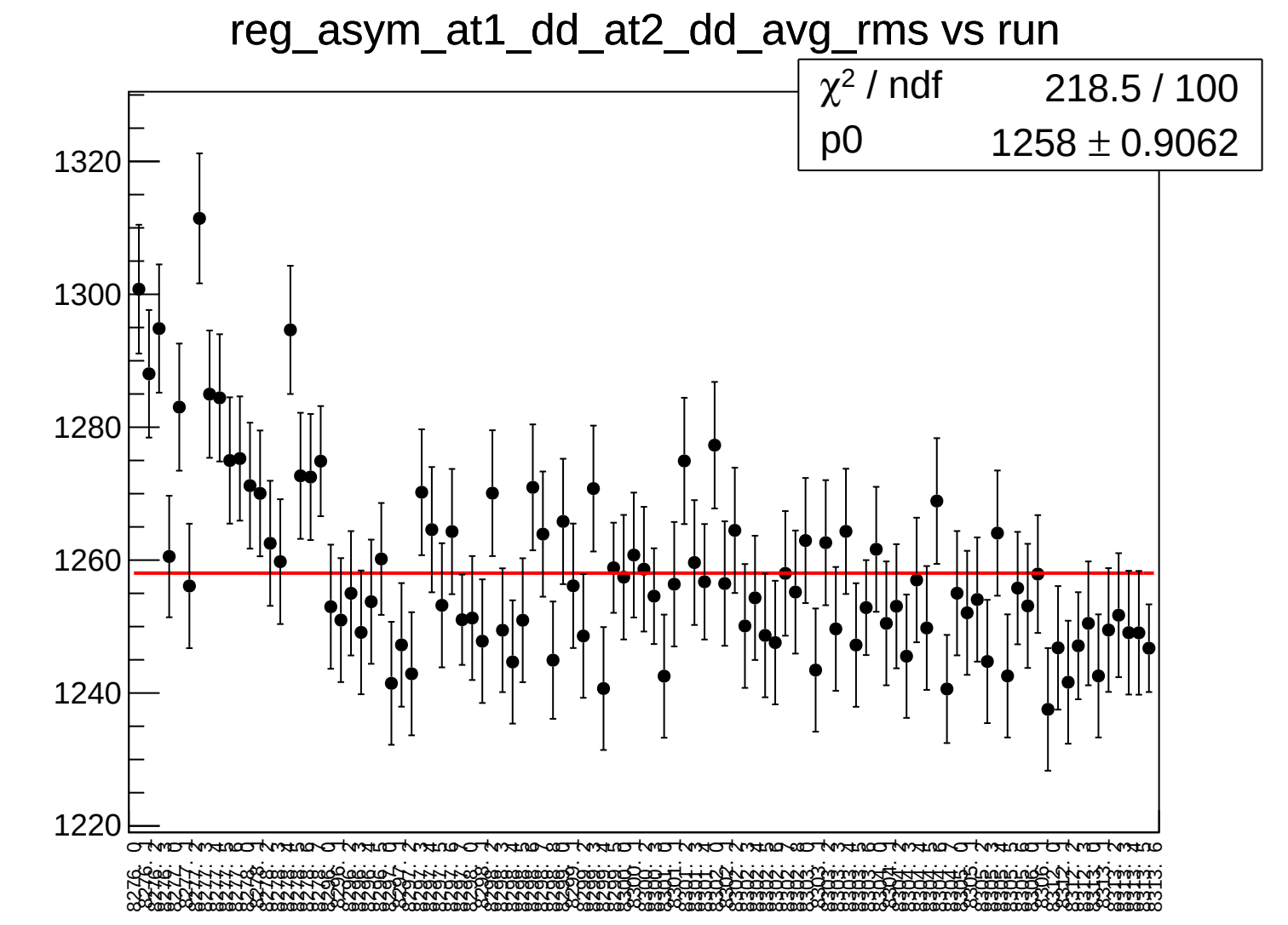

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.457e+05 / 100
p0 35.08 ± 0.02705
90
80
70
60
50
40
30
20
10

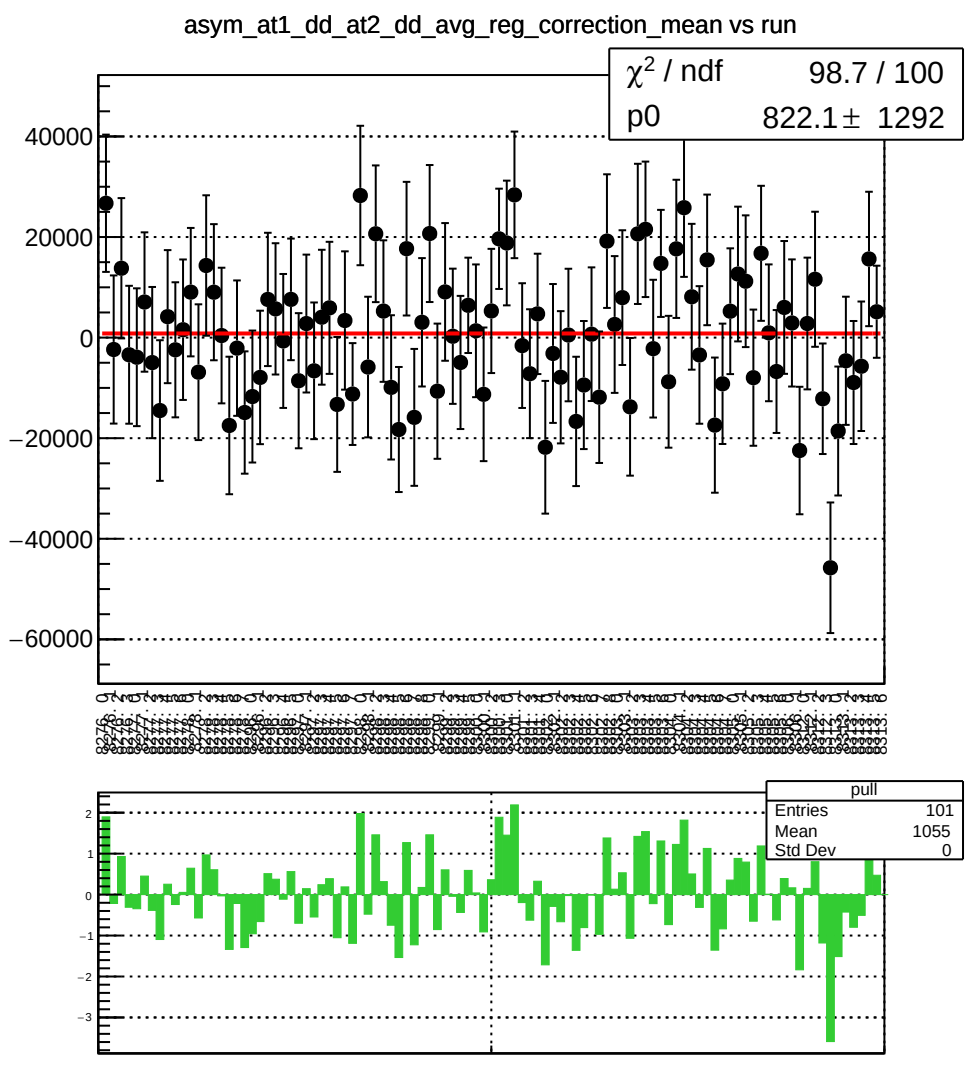

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 124.7 / 100
p0 3.003e−14 ± 8.299e−14
pull
Entries 101
Mean 35.41
Std Dev 59.36
pull1D
Entries 101
Mean −0.03398
Std Dev 1.111

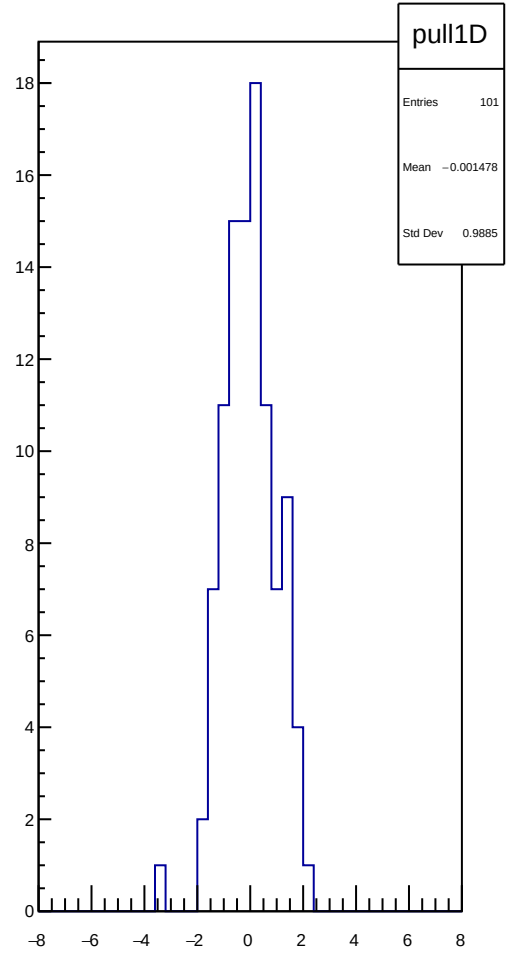

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.856e+05 / 100
p0 5.99e−11 ± 5.869e−14
0.5
0.4
0.3
0.2
0.1

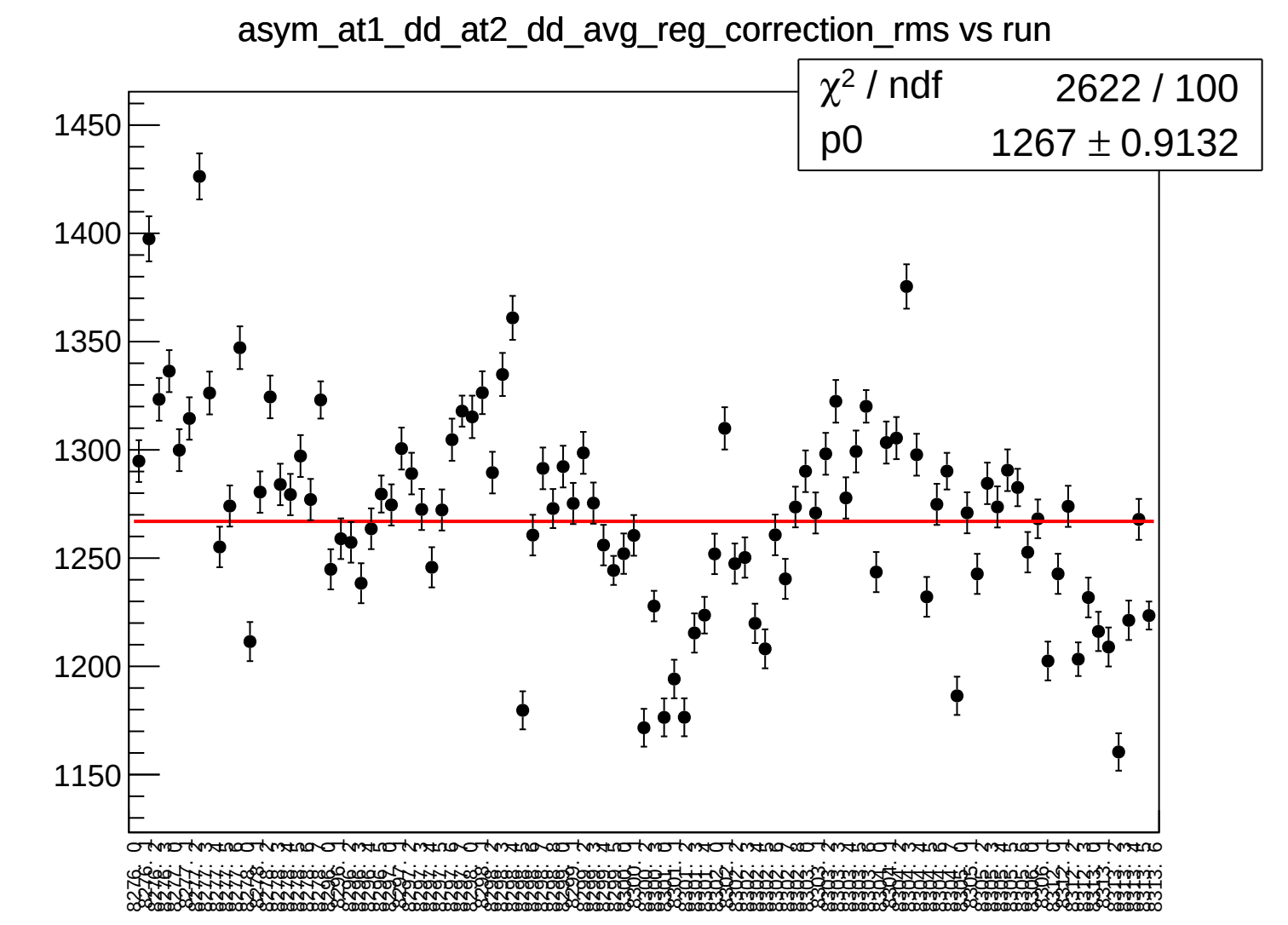

reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 91.15 / 100
p0 2106 ± 1282
60000
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 1627
Std Dev 0
3
2
1
0
−1
−2

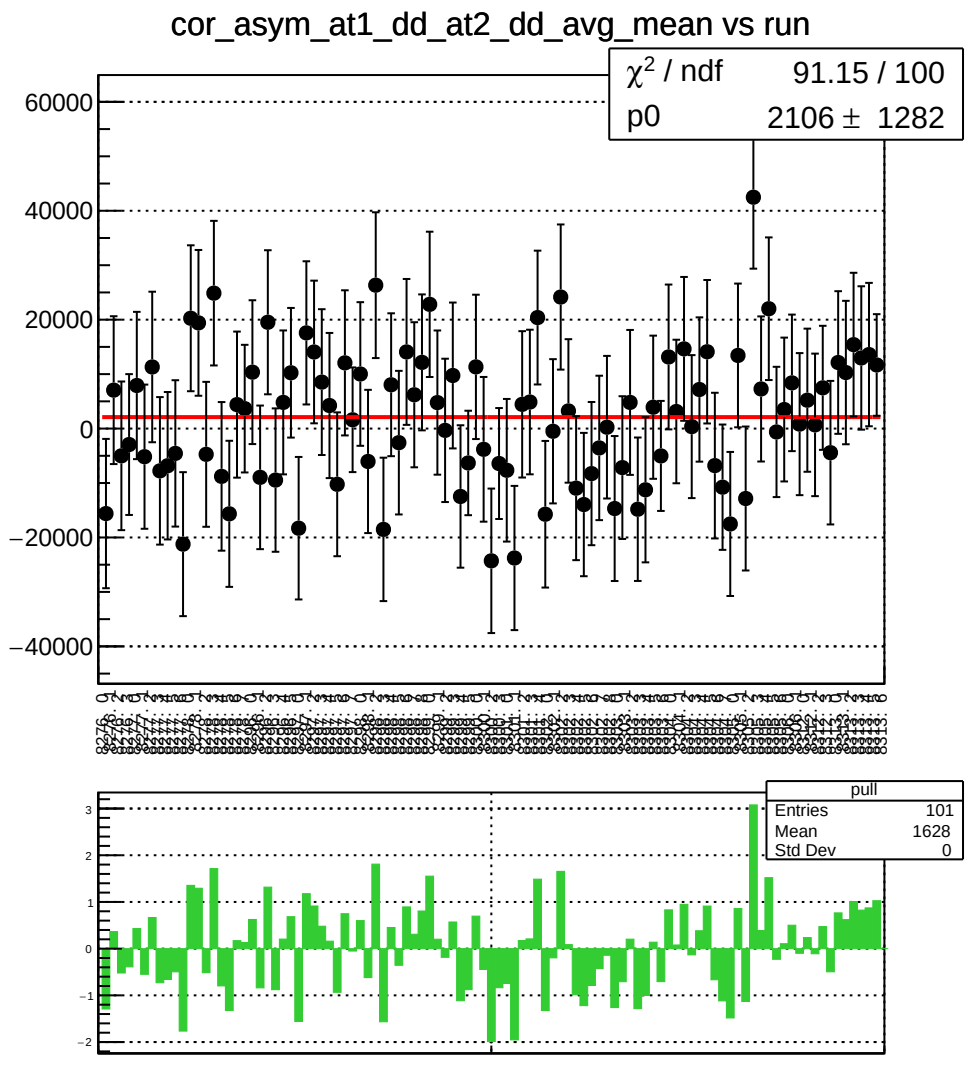

pull1D
Entries 101
Mean 0.002044
Std Dev 0.95
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

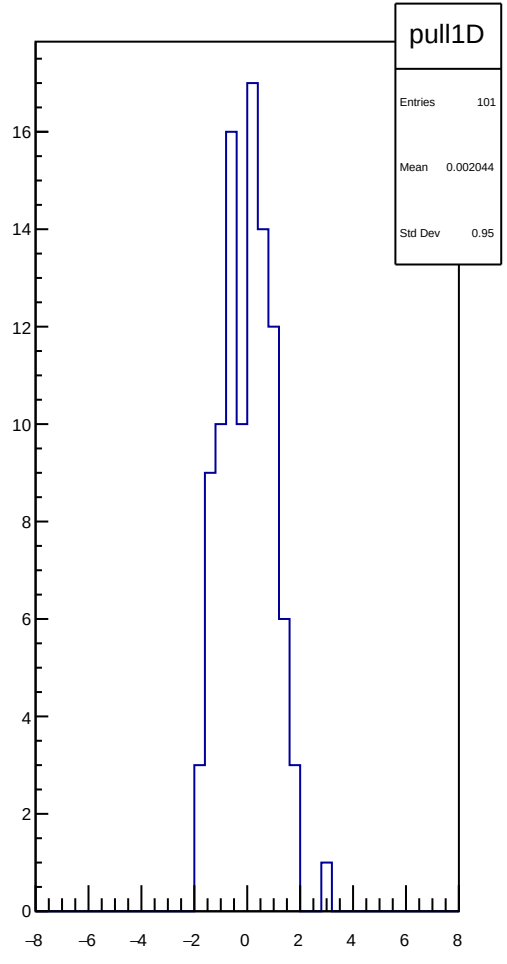

reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 218.5 / 100
p0 1258 ± 0.9062
1320
1300
1280
1260
1240
1220

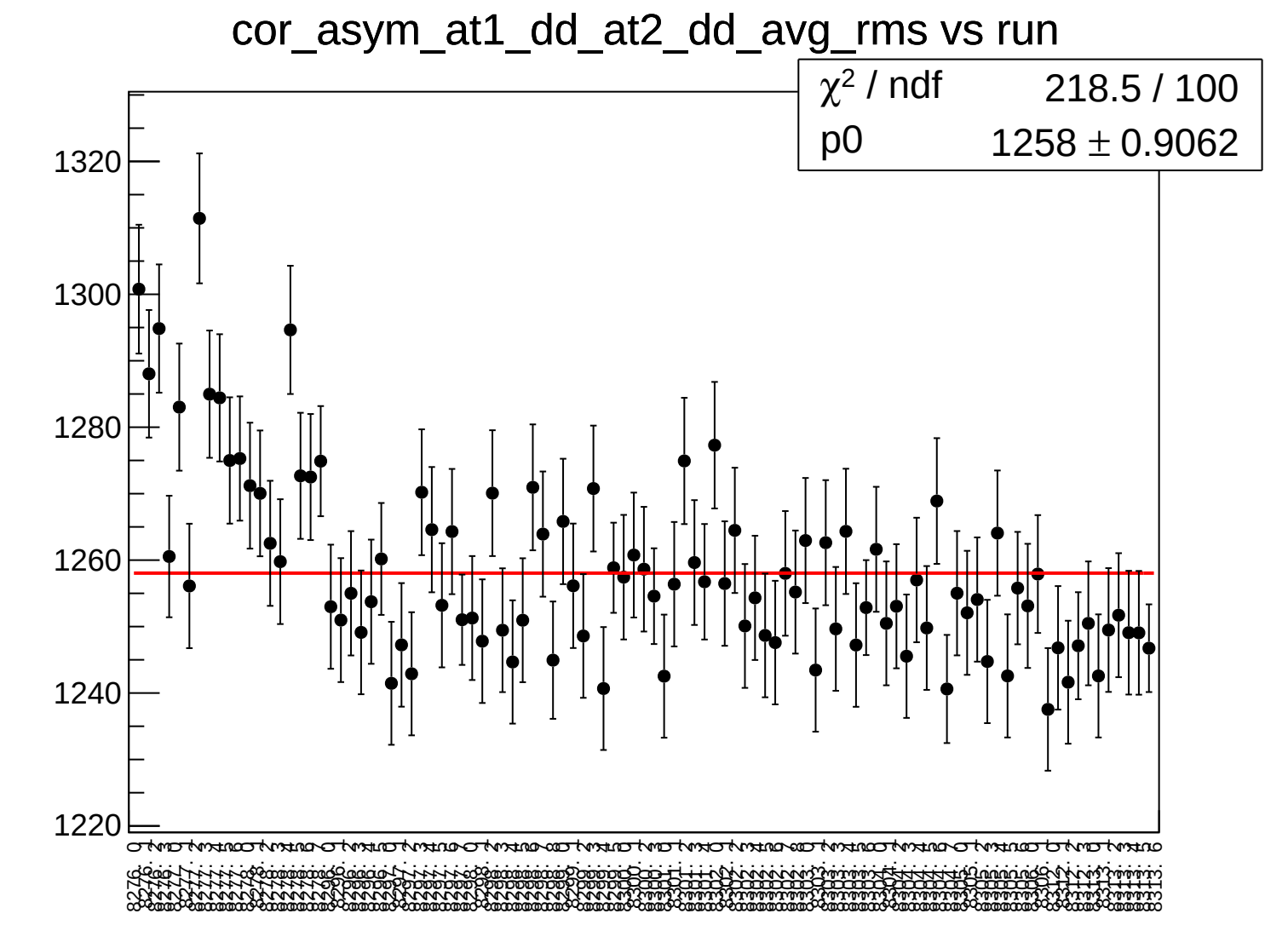

asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 98.7 / 100
p0 822.1 ± 1292
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean 1055
Std Dev 0
2
1
0
−1
−2
−3

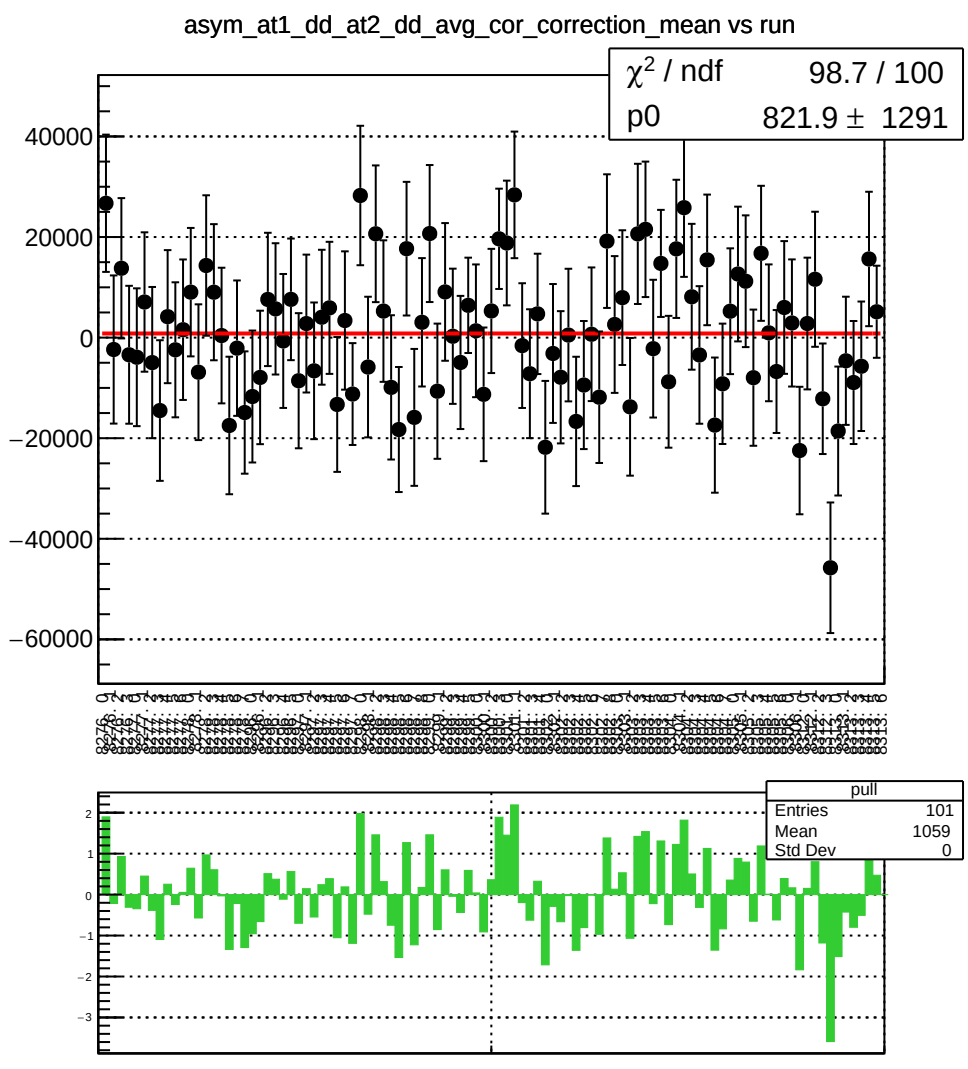

pull1D
Entries 101
Mean −0.001478
Std Dev 0.9885
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

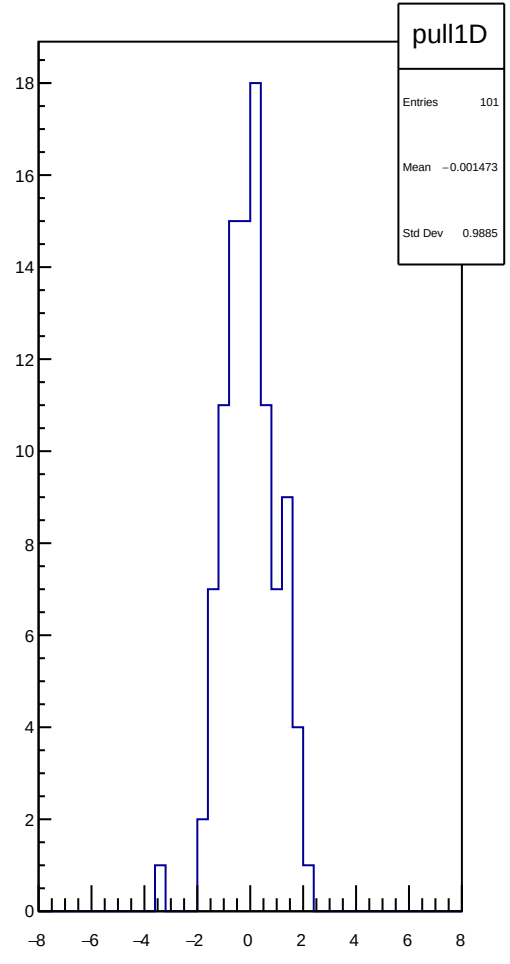

asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 2622 / 100
p0 1267 ± 0.9132
1450
1400
1350
1300
1250
1200
1150

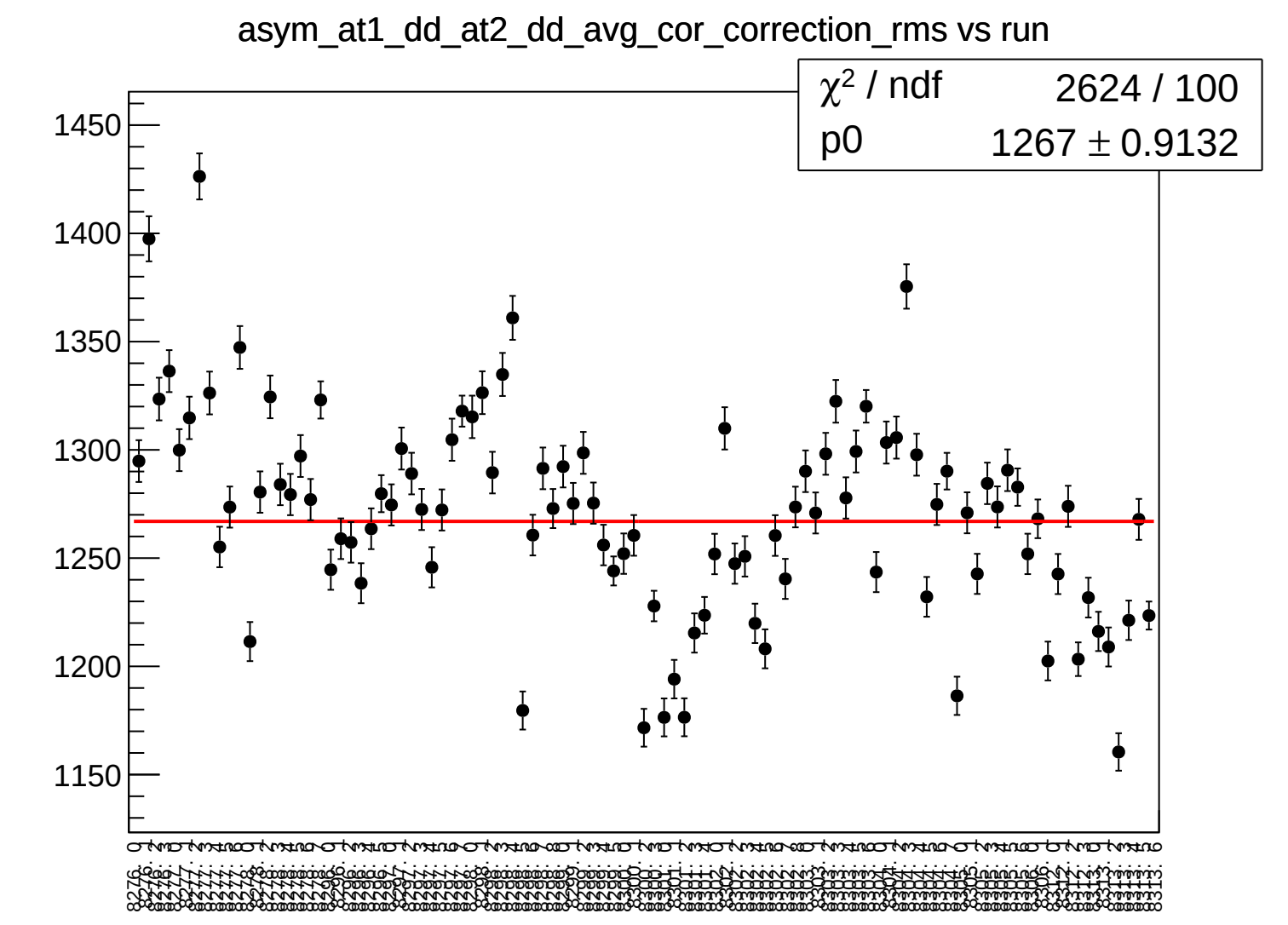

cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 91.15 / 100
p0 2106 ± 1282
60000
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 1628
Std Dev 0
3
2
1
0
−1
−2

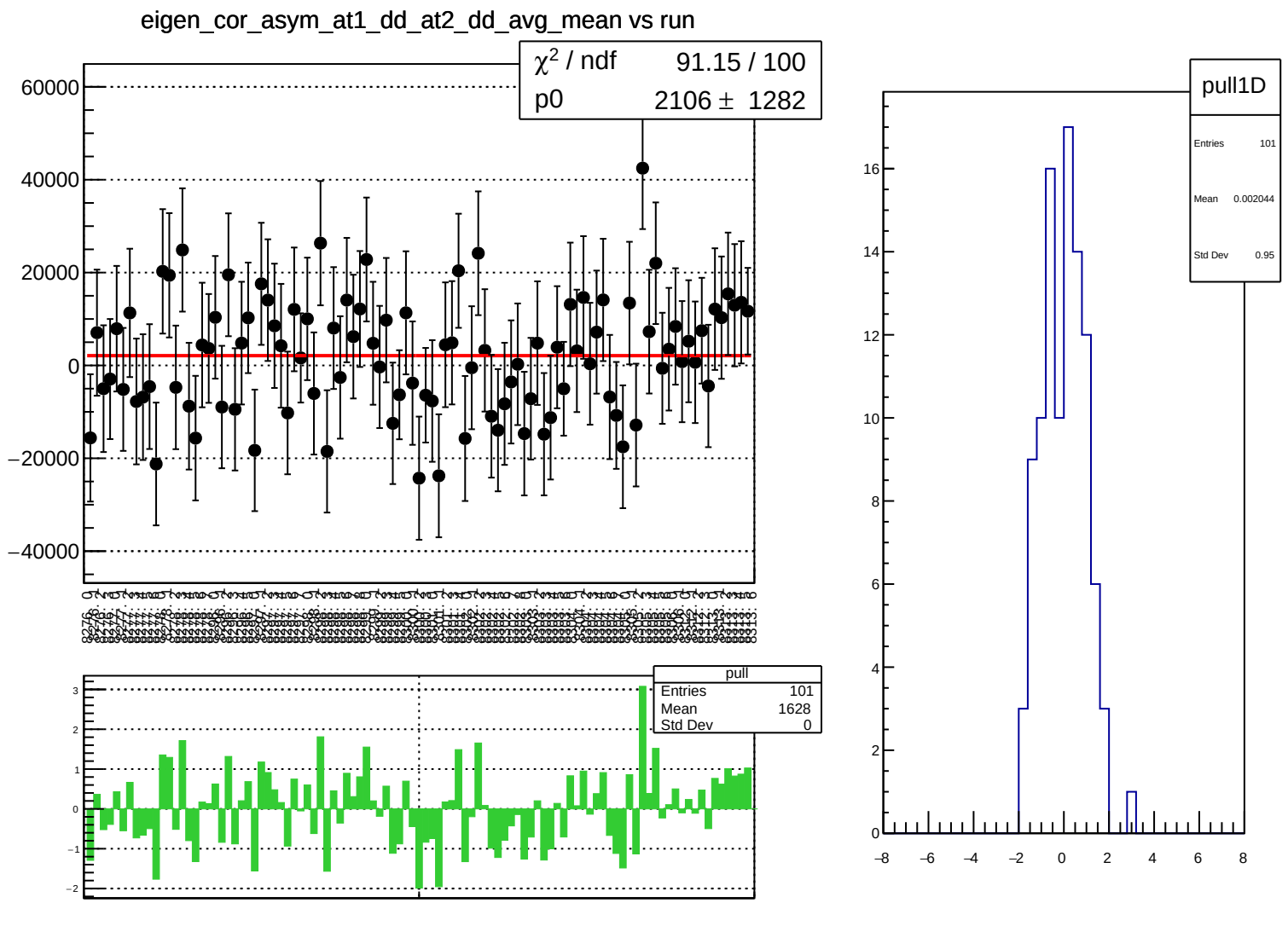

pull1D
Entries 101
Mean 0.002044
Std Dev 0.95
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

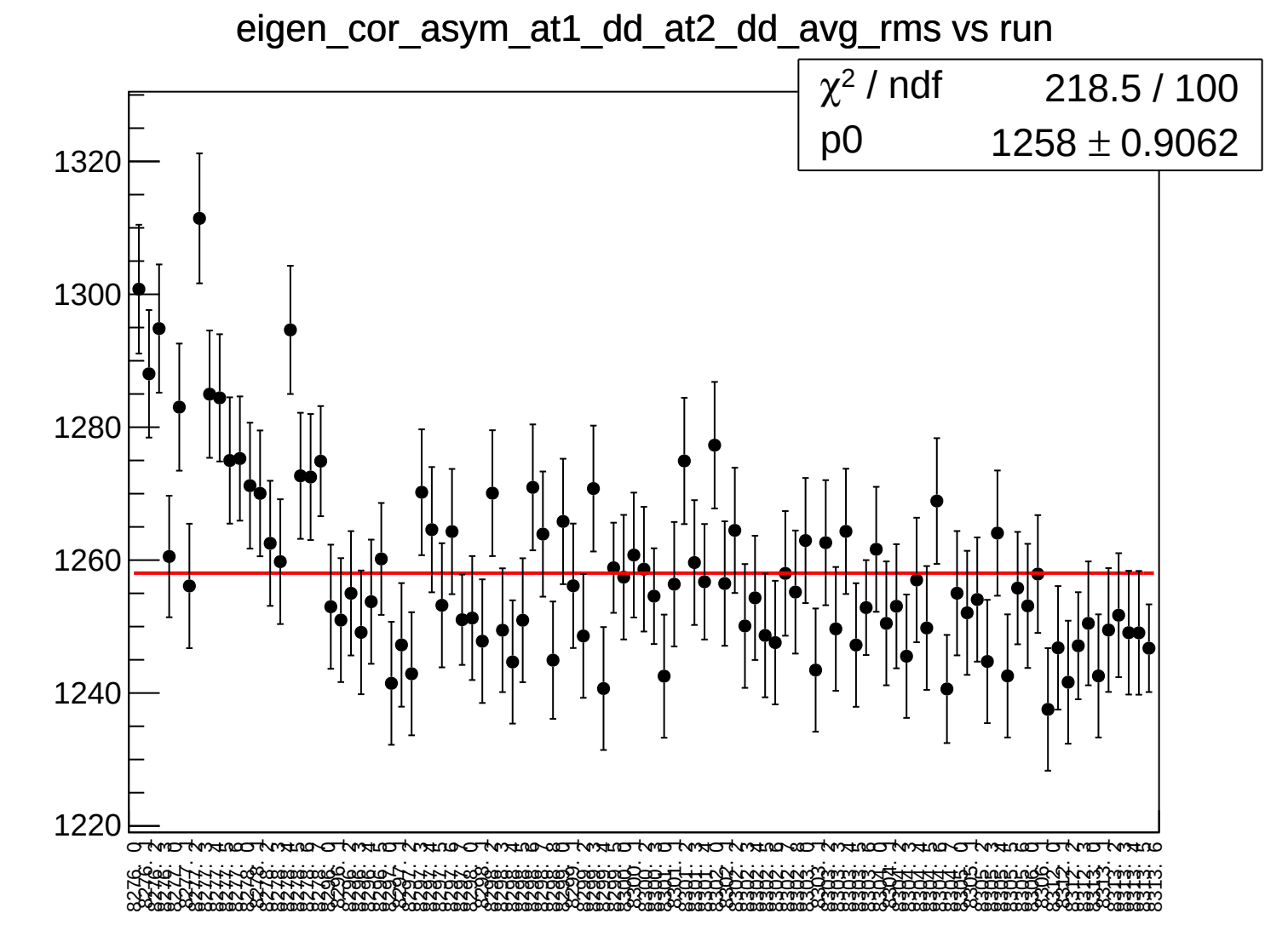

cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 218.5 / 100
p0 1258 ± 0.9062
1320
1300
1280
1260
1240
1220

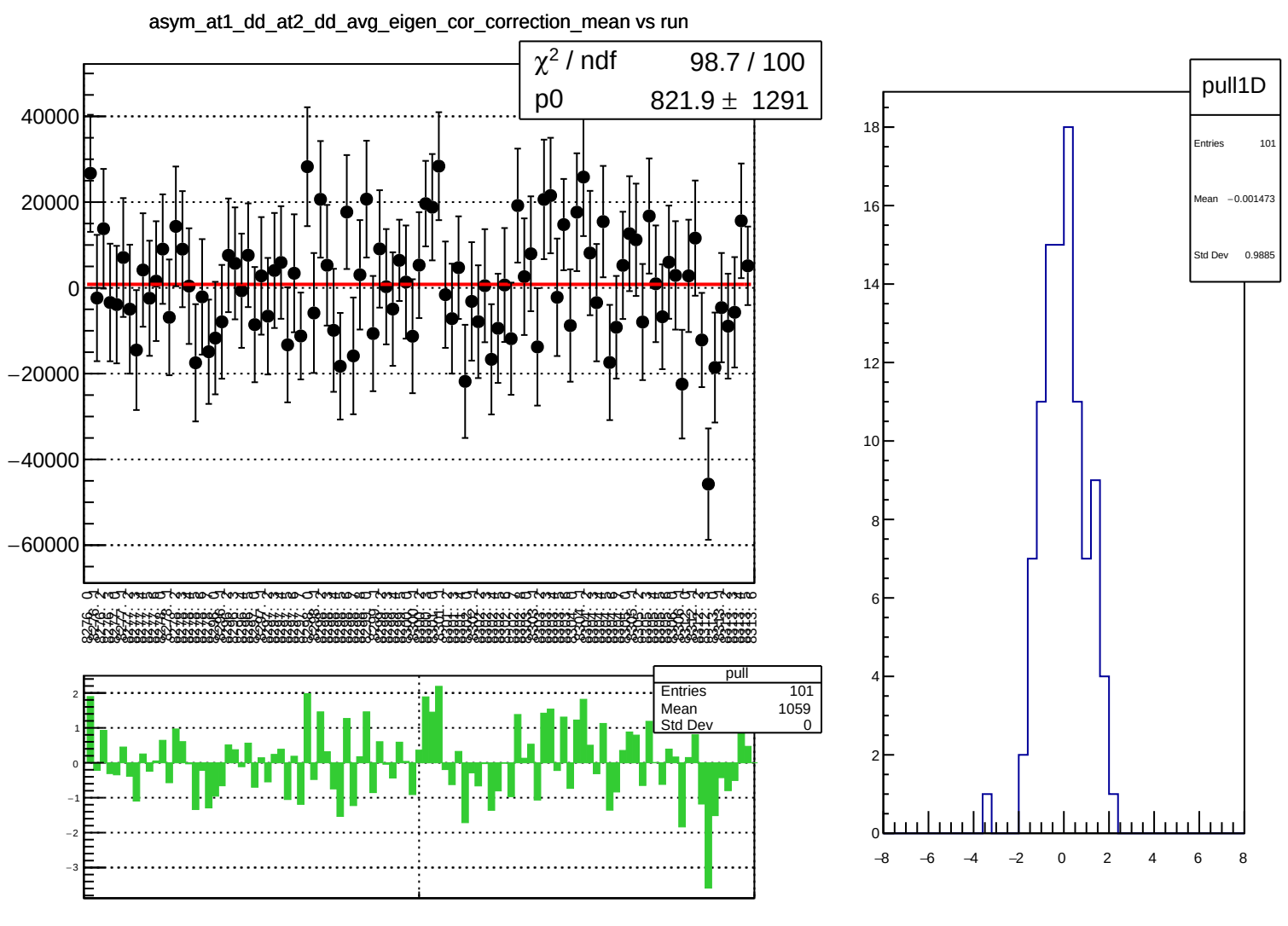

asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 98.7 / 100
p0 821.9 ± 1291
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean 1059
Std Dev 0
2
1
0
−1
−2
−3

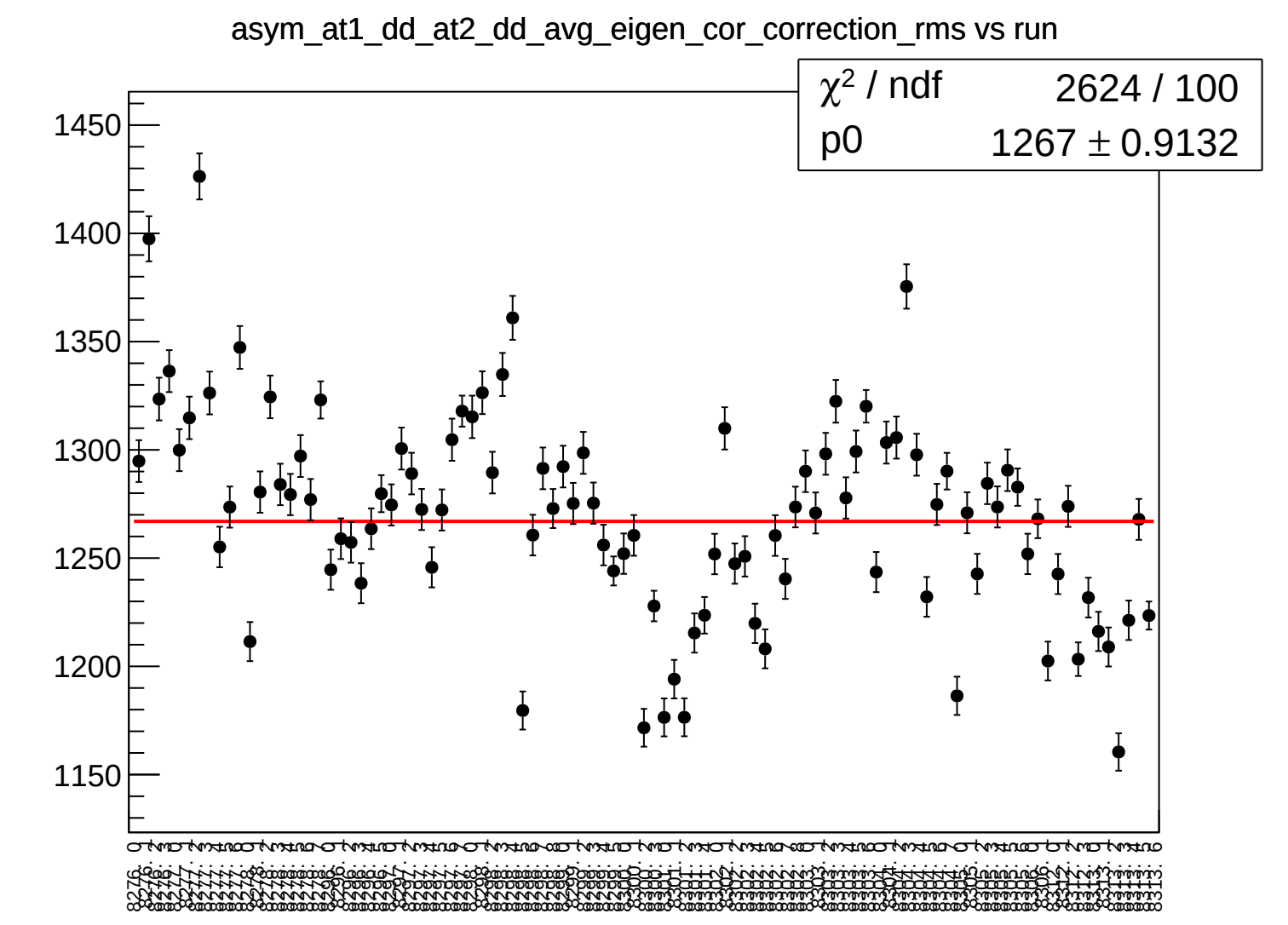

pull1D
Entries 101
Mean −0.001473
Std Dev 0.9885
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

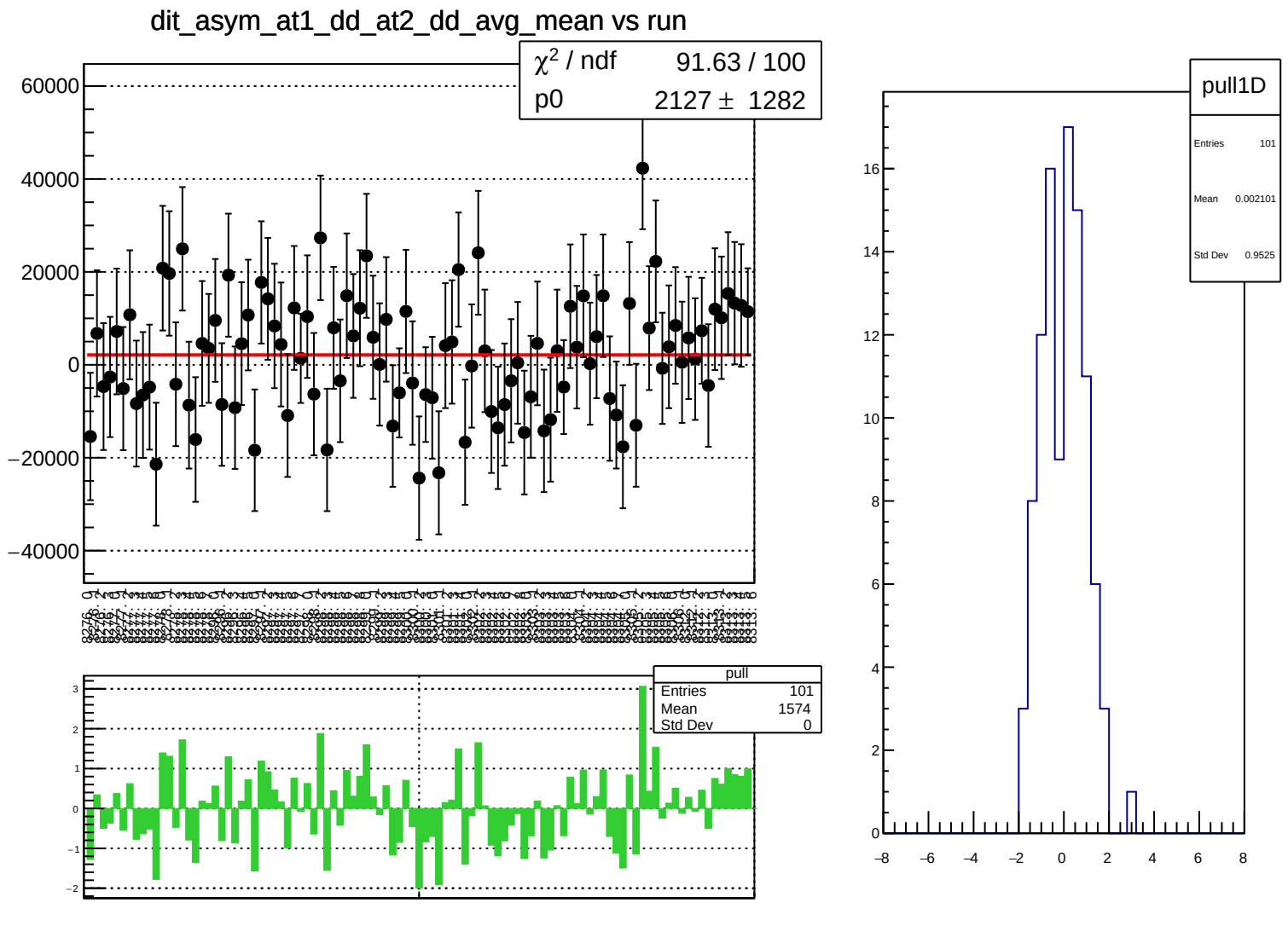

asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 2624 / 100
p0 1267 ± 0.9132
1450
1400
1350
1300
1250
1200
1150

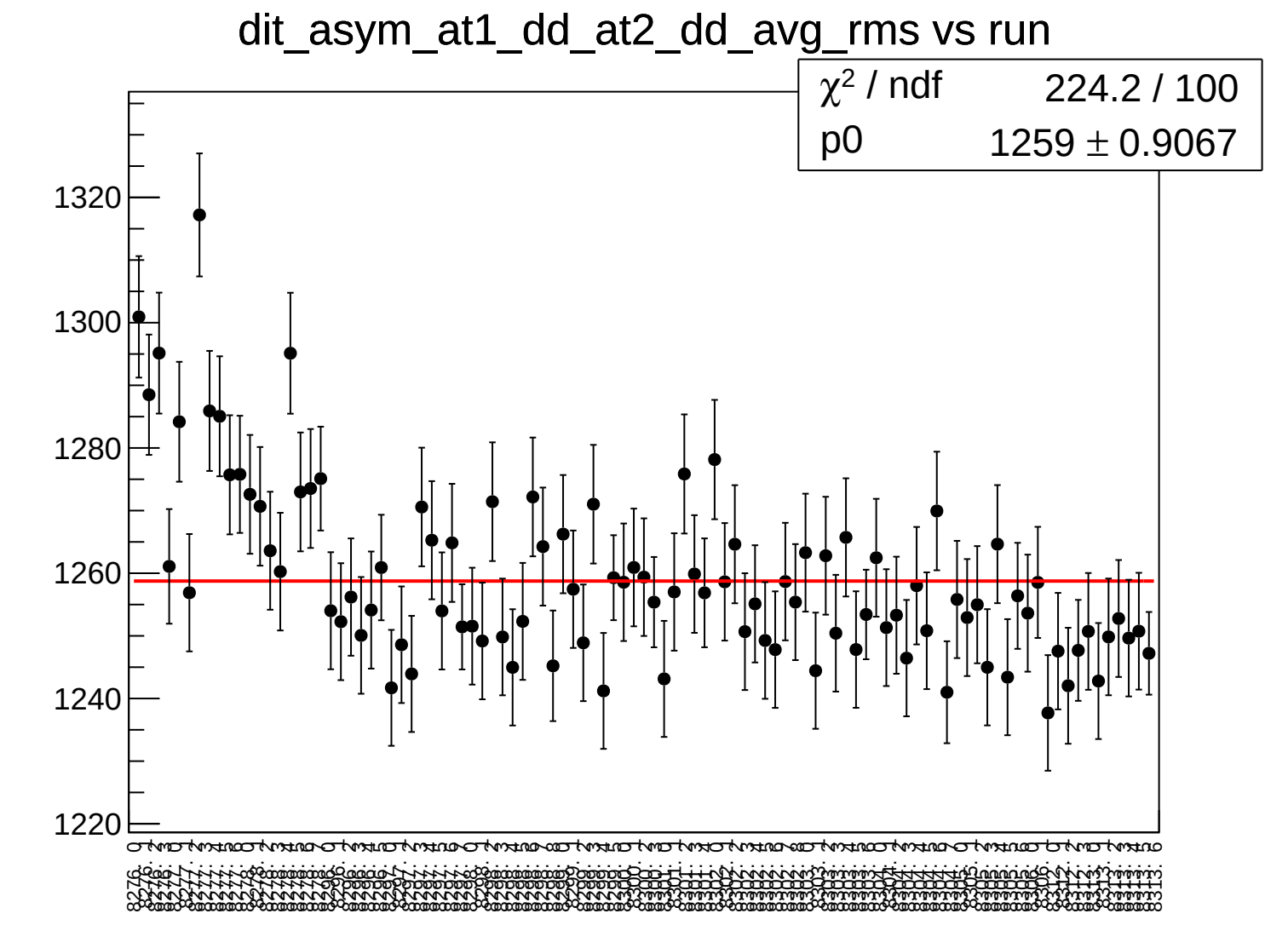

eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 91.15 / 100
p0 2106 ± 1282
60000
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 1628
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.002044
Std Dev 0.95
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

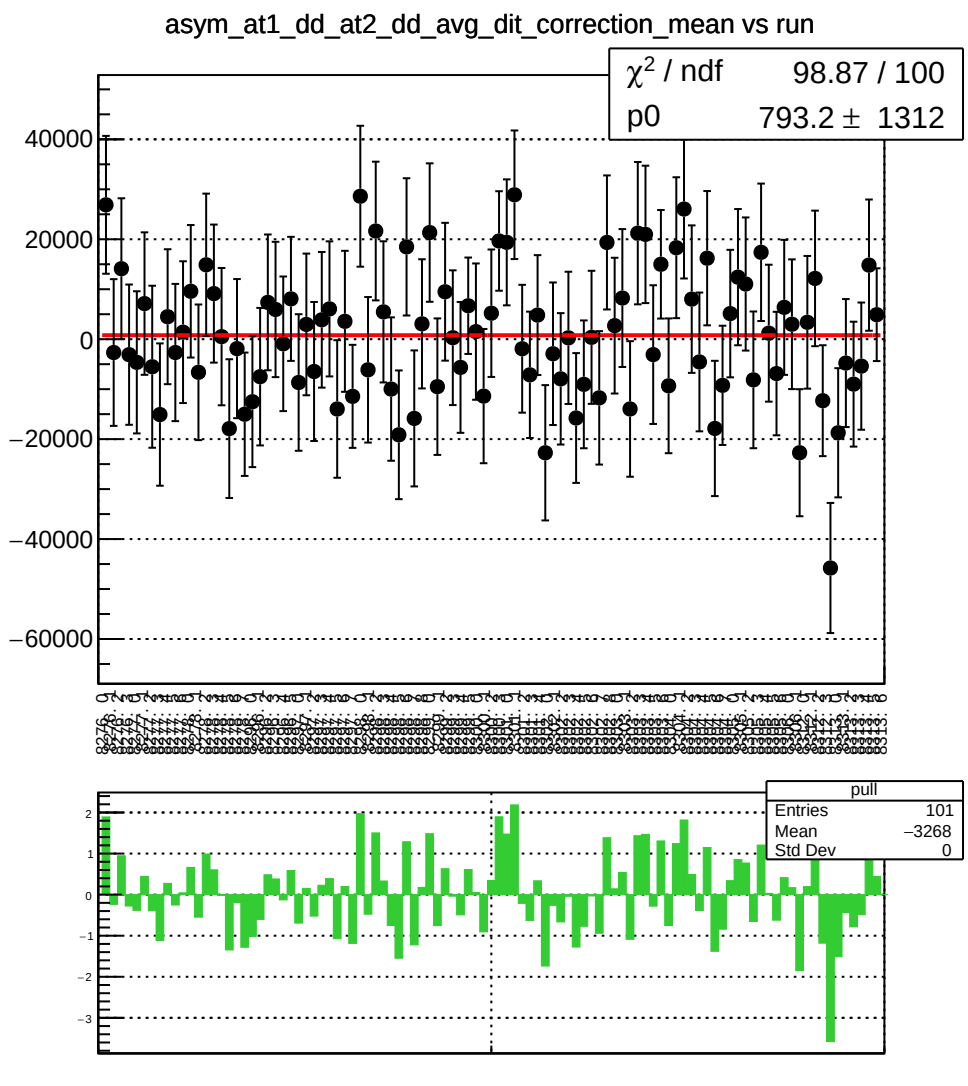

eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 218.5 / 100
p0 1258 ± 0.9062
1320
1300
1280
1260
1240
1220

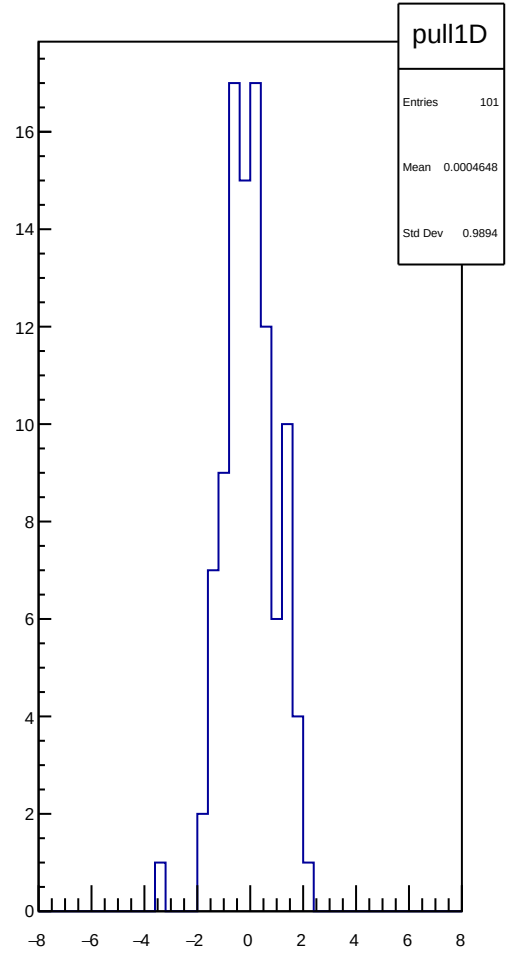

asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 98.7 / 100
p0 821.9 ± 1291
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean 1059
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean −0.001473
Std Dev 0.9885
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

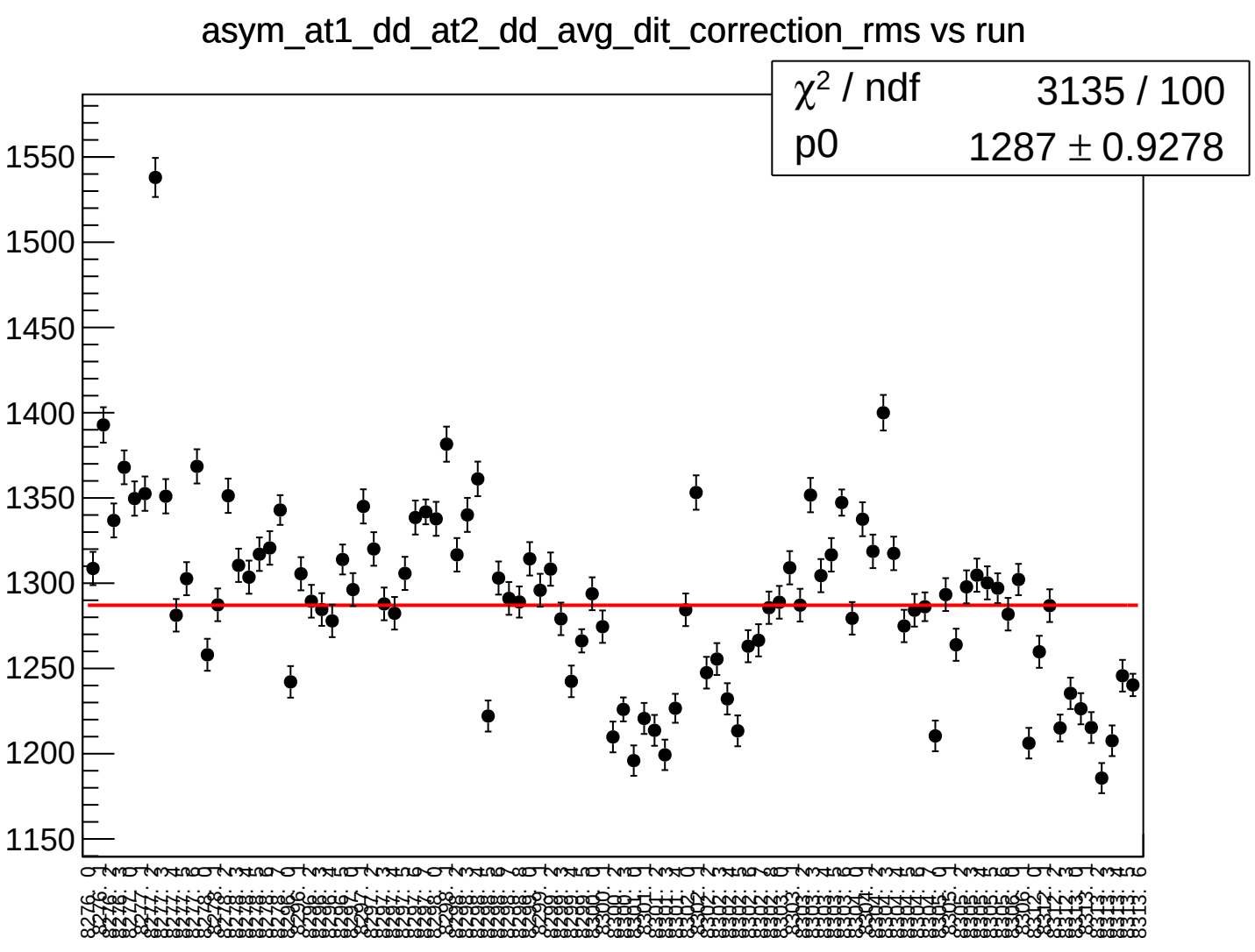

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 2624 / 100
p0 1267 ± 0.9132
1450
1400
1350
1300
1250
1200
1150

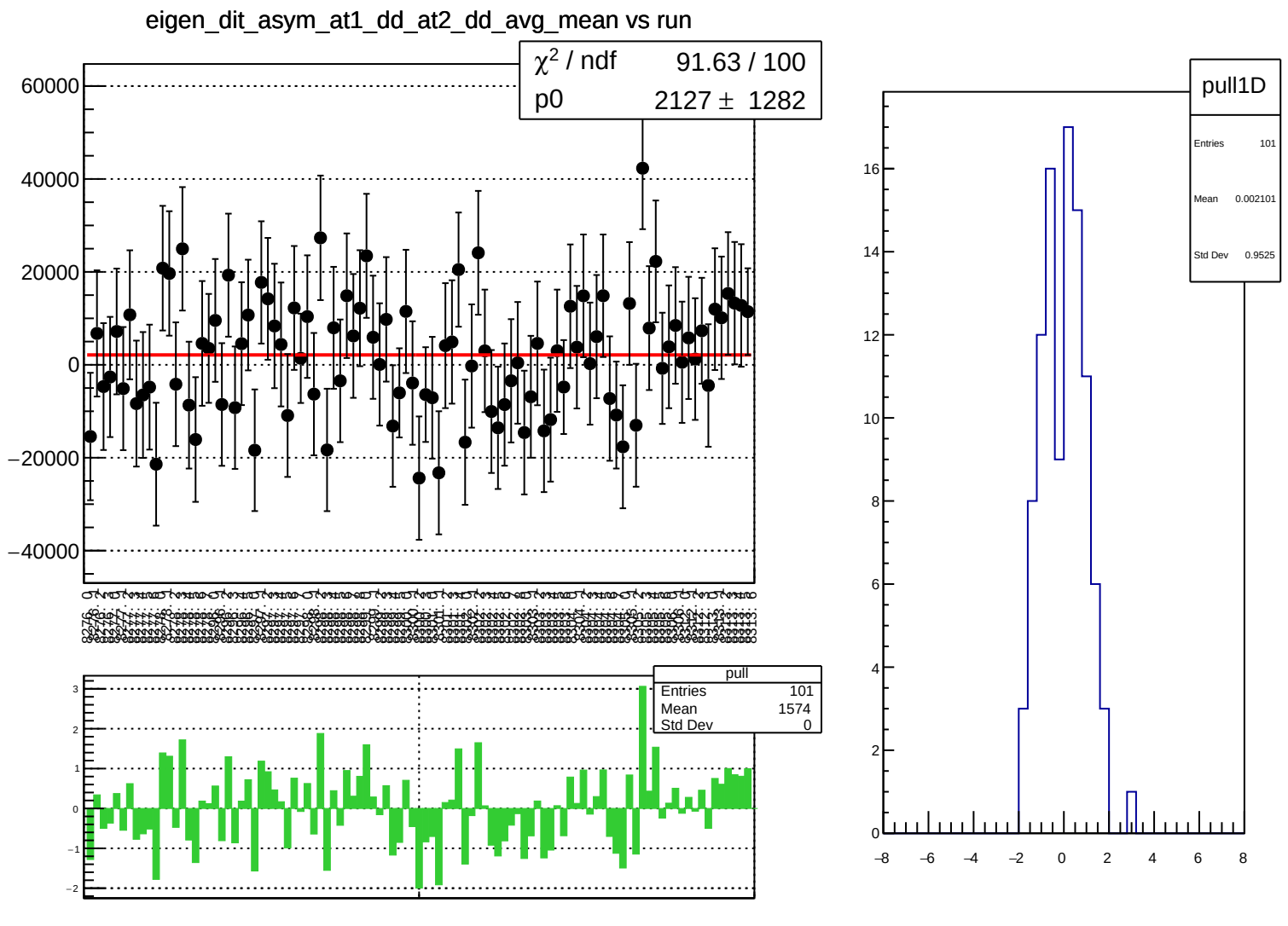

dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 91.63 / 100
p0 2127 ± 1282
60000
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 1574
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.002101
Std Dev 0.9525
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

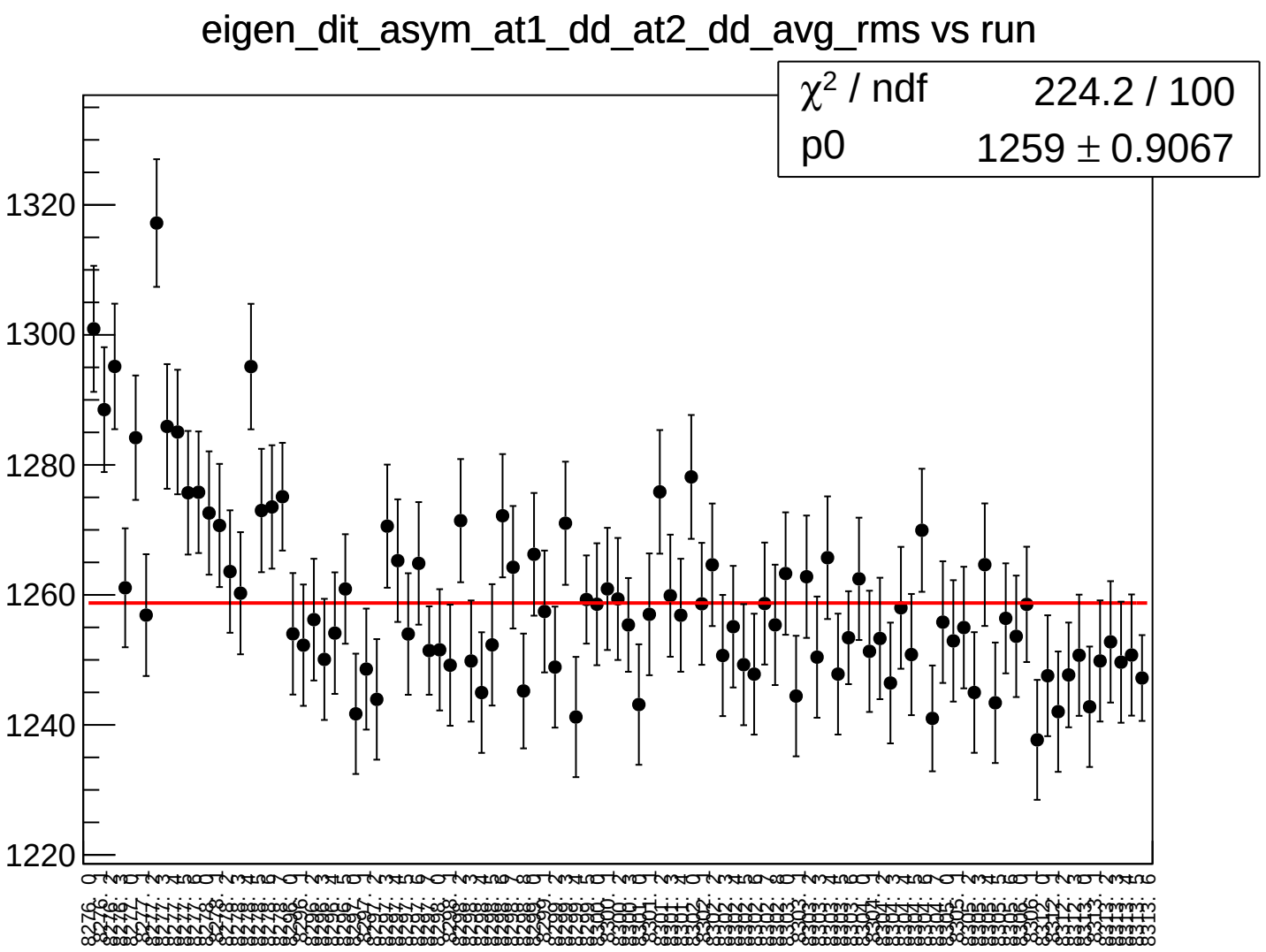

dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 224.2 / 100
p0 1259 ± 0.9067
1320
1300
1280
1260
1240
1220

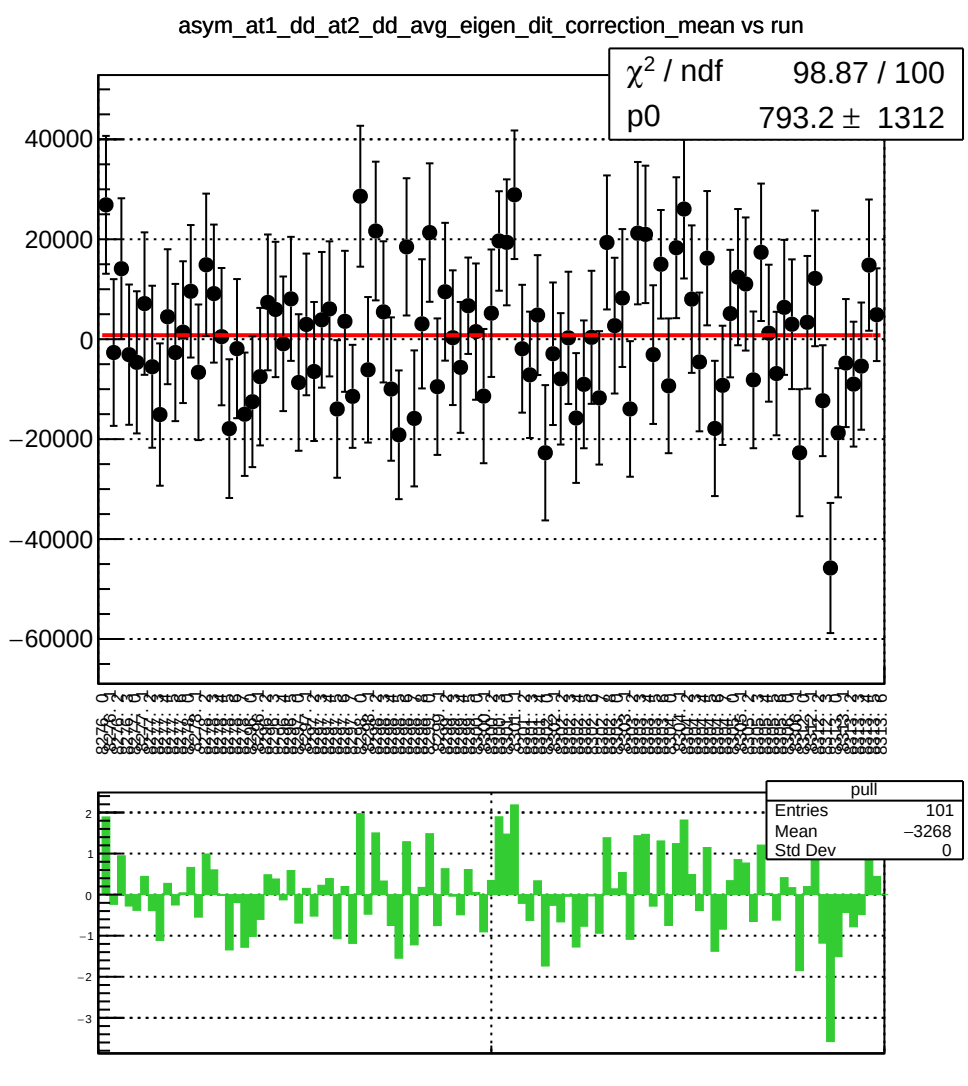

asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 98.87 / 100
p0 793.2 ± 1312
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −3268
Std Dev 0
2
1
0
−1
−2
−3

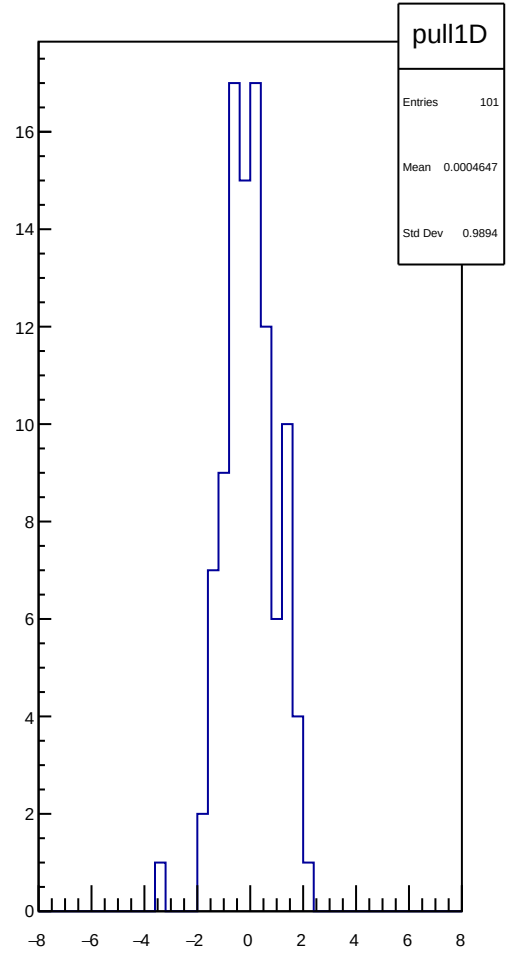

pull1D
Entries 101
Mean 0.0004648
Std Dev 0.9894
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

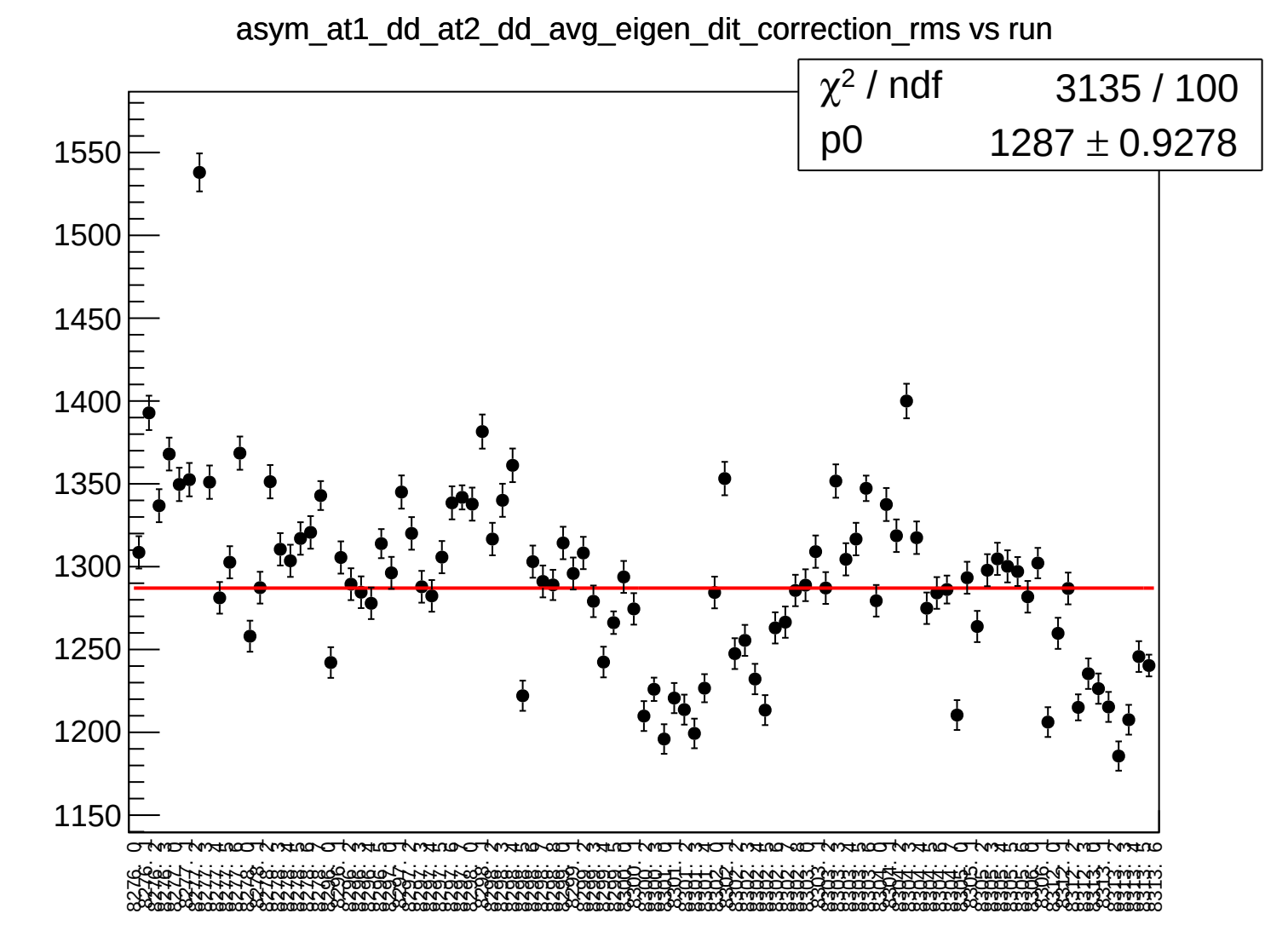

asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 3135 / 100
p0 1287 ± 0.9278
1550
1500
1450
1400
1350
1300
1250
1200
1150

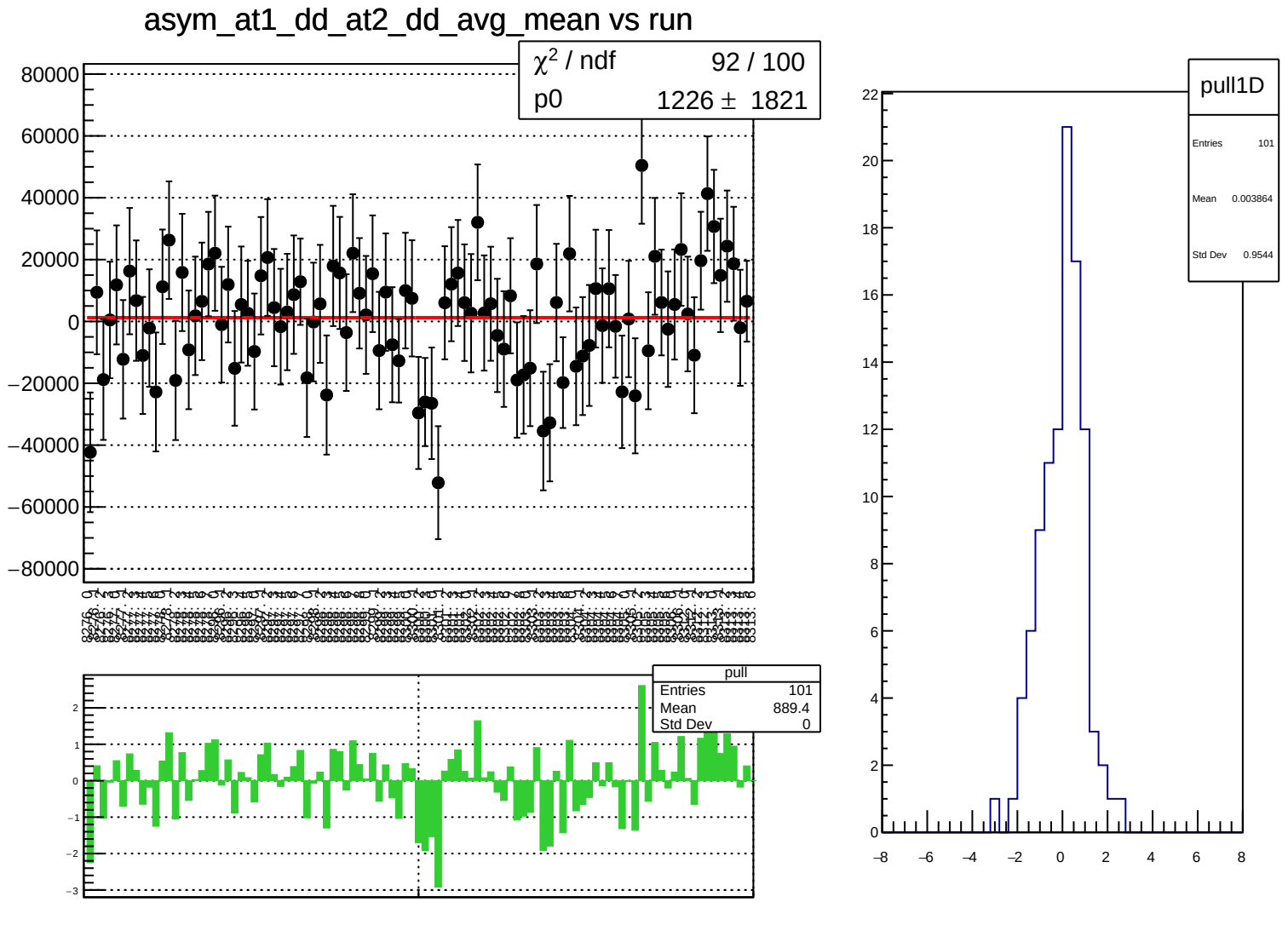

eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 91.63 / 100
p0 2127 ± 1282
60000
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 1574
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.002101
Std Dev 0.9525
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

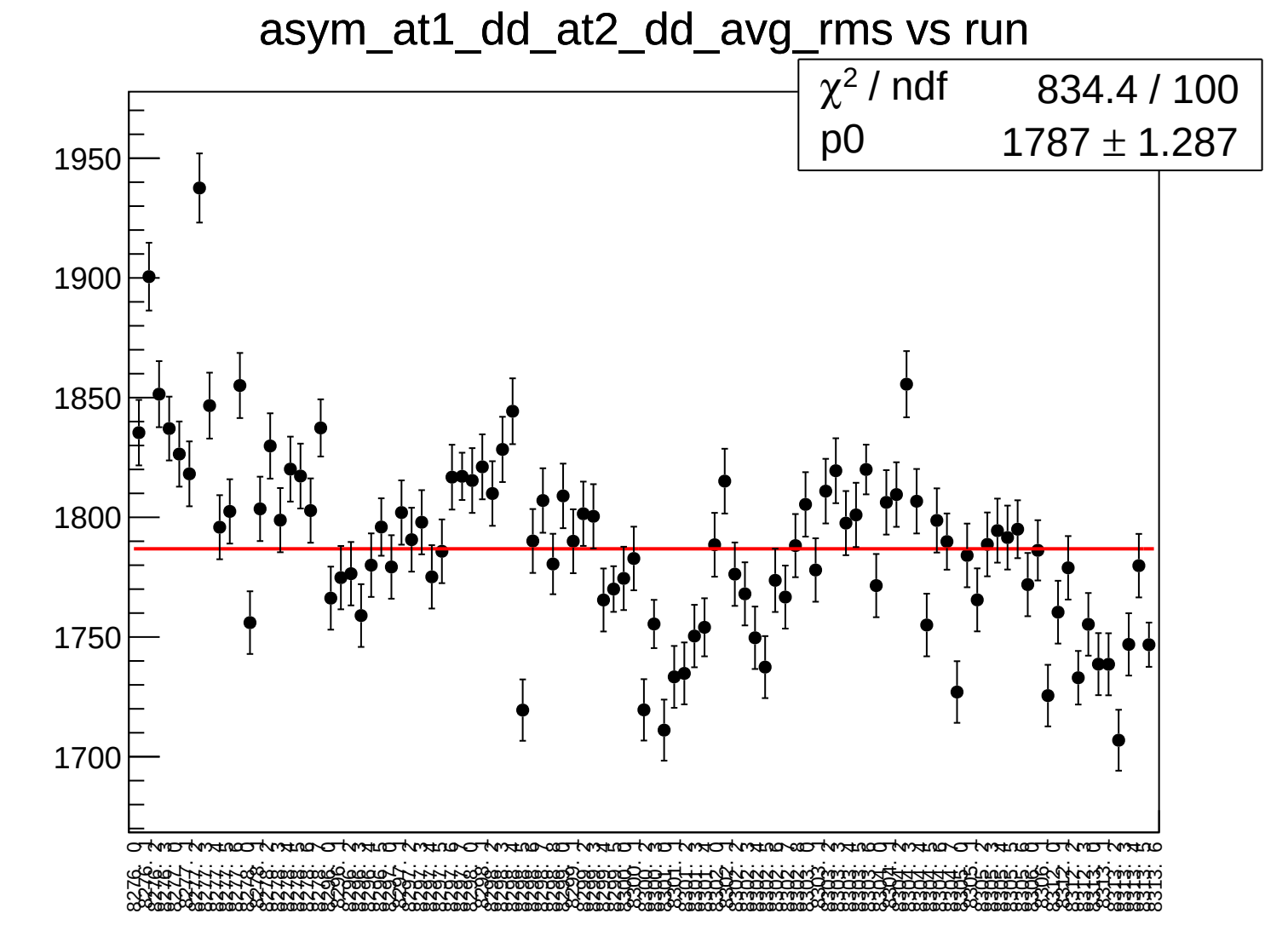

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 224.2 / 100
p0 1259 ± 0.9067
1320
1300
1280
1260
1240
1220

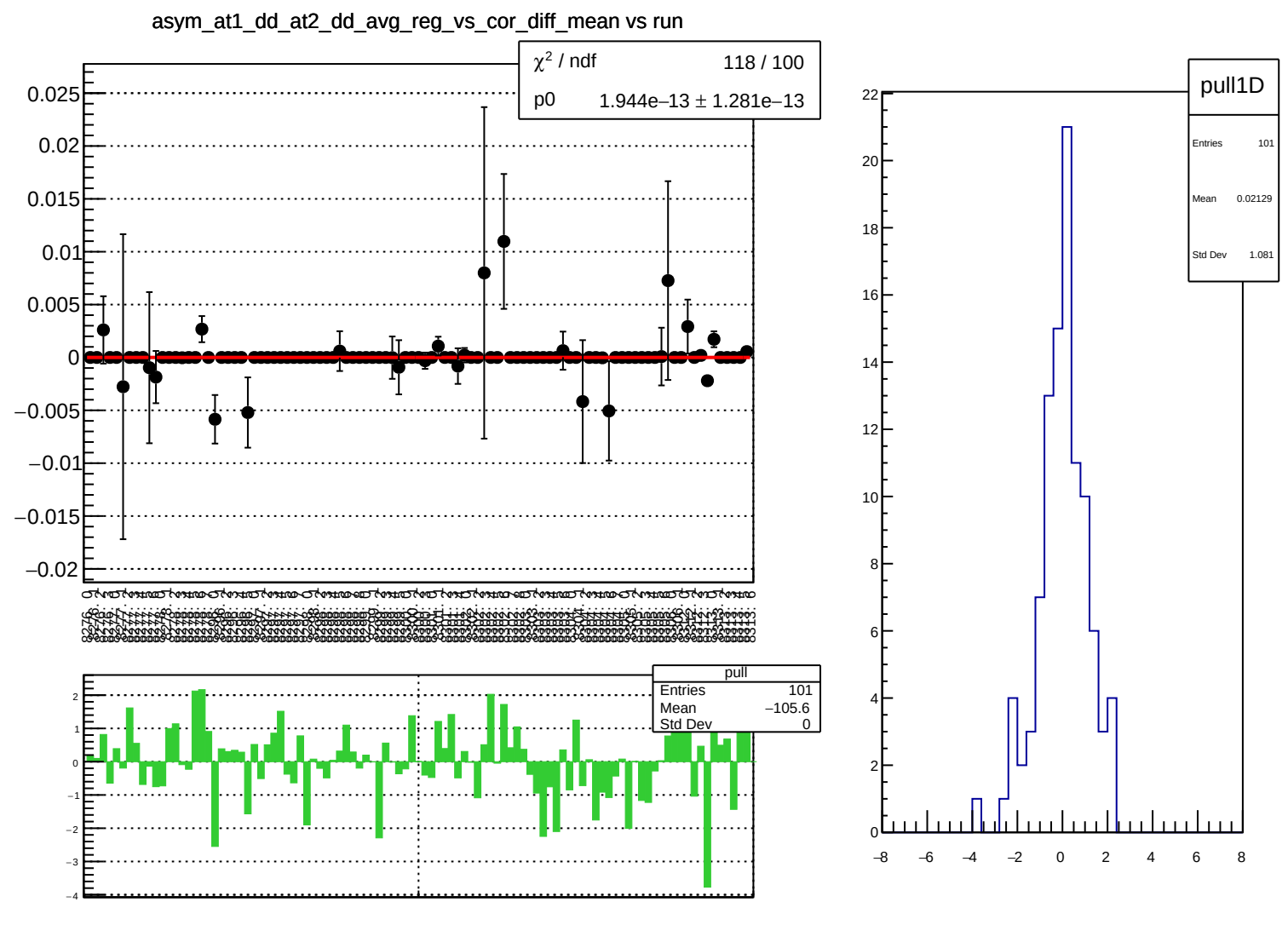

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 98.87 / 100
p0 793.2 ± 1312
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −3268
Std Dev 0
2
1
0
−1
−2
−3

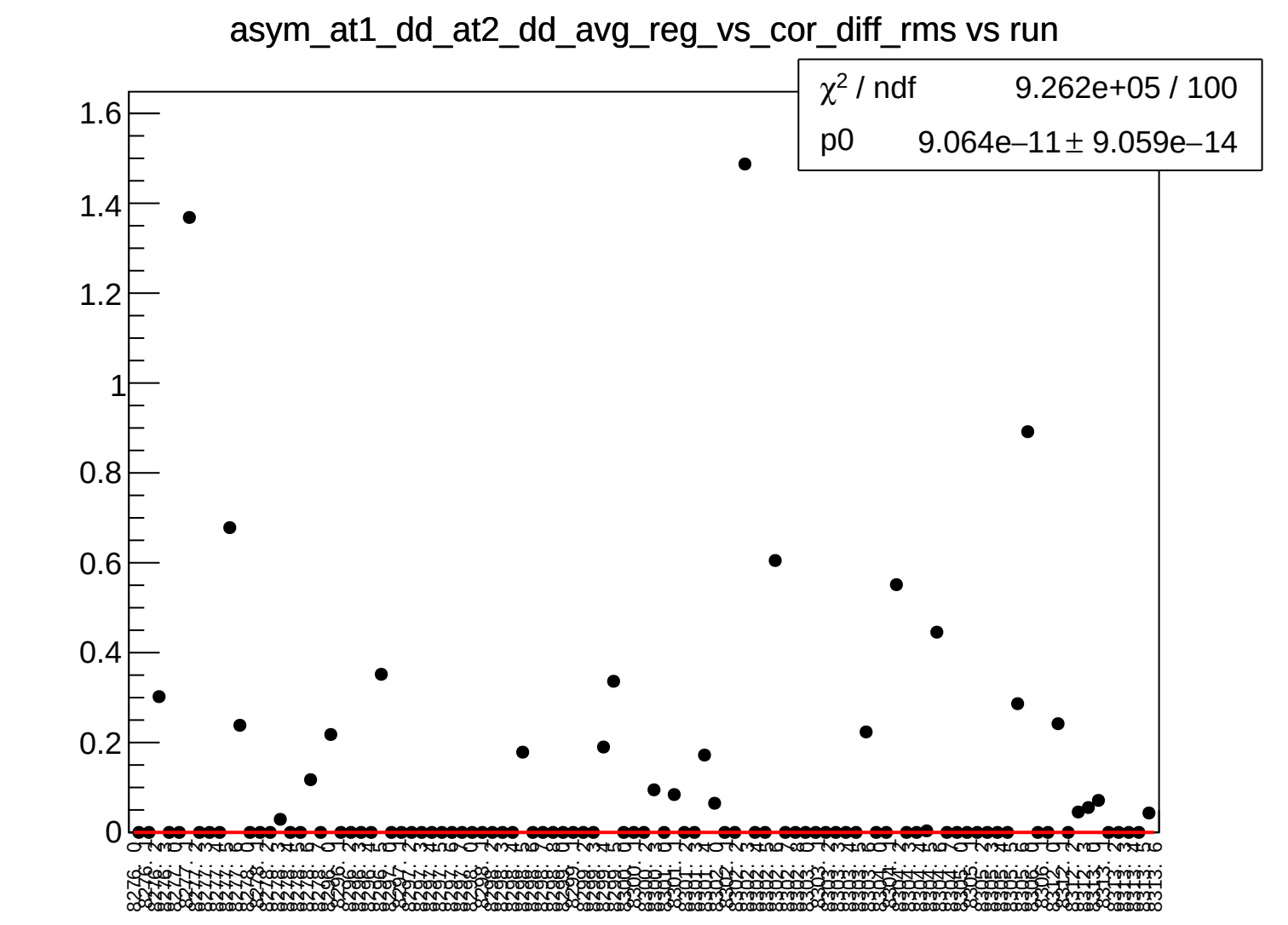

pull1D
Entries 101
Mean 0.0004647
Std Dev 0.9894
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

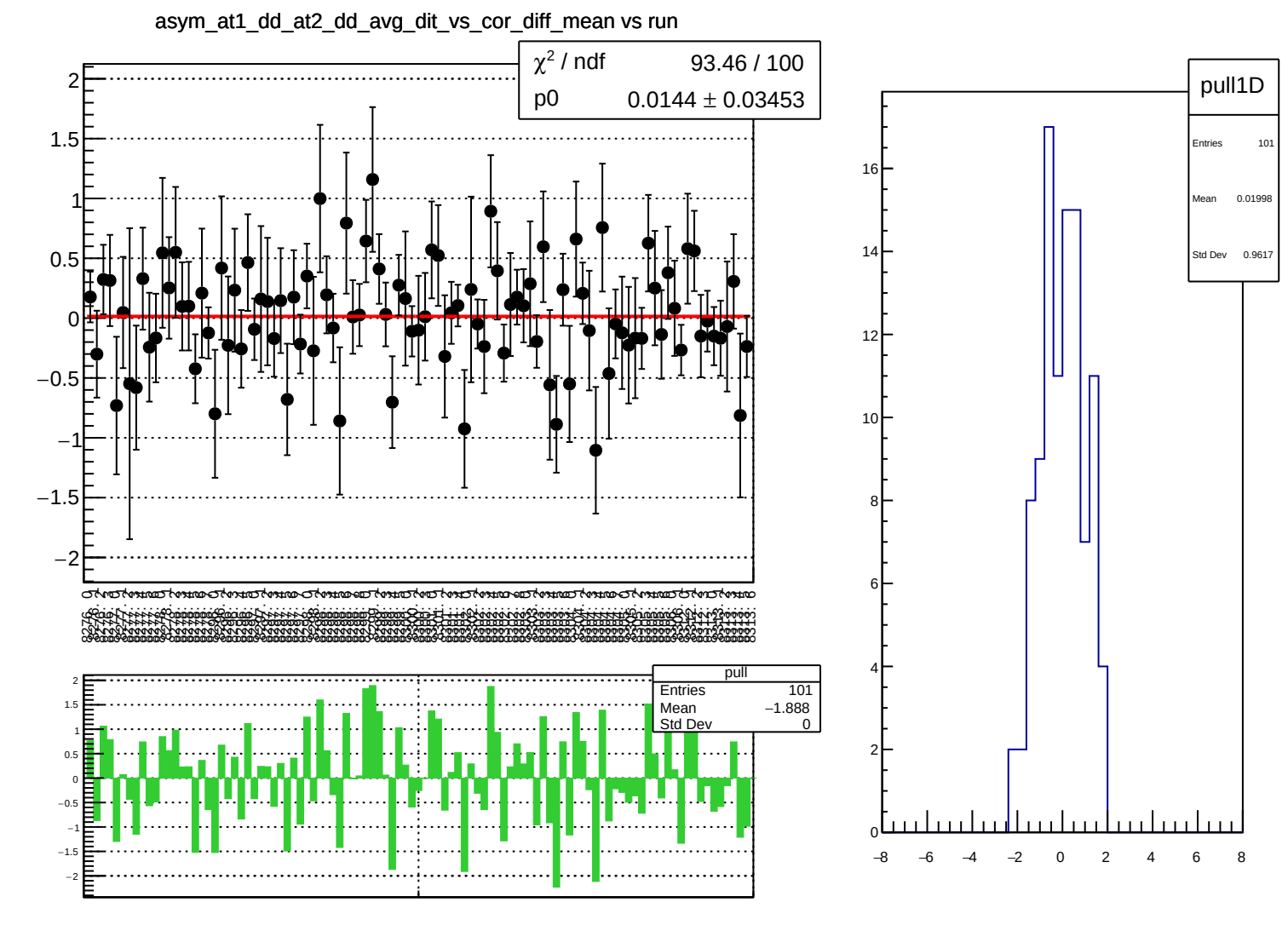

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3135 / 100
p0 1287 ± 0.9278
1550
1500
1450
1400
1350
1300
1250
1200
1150

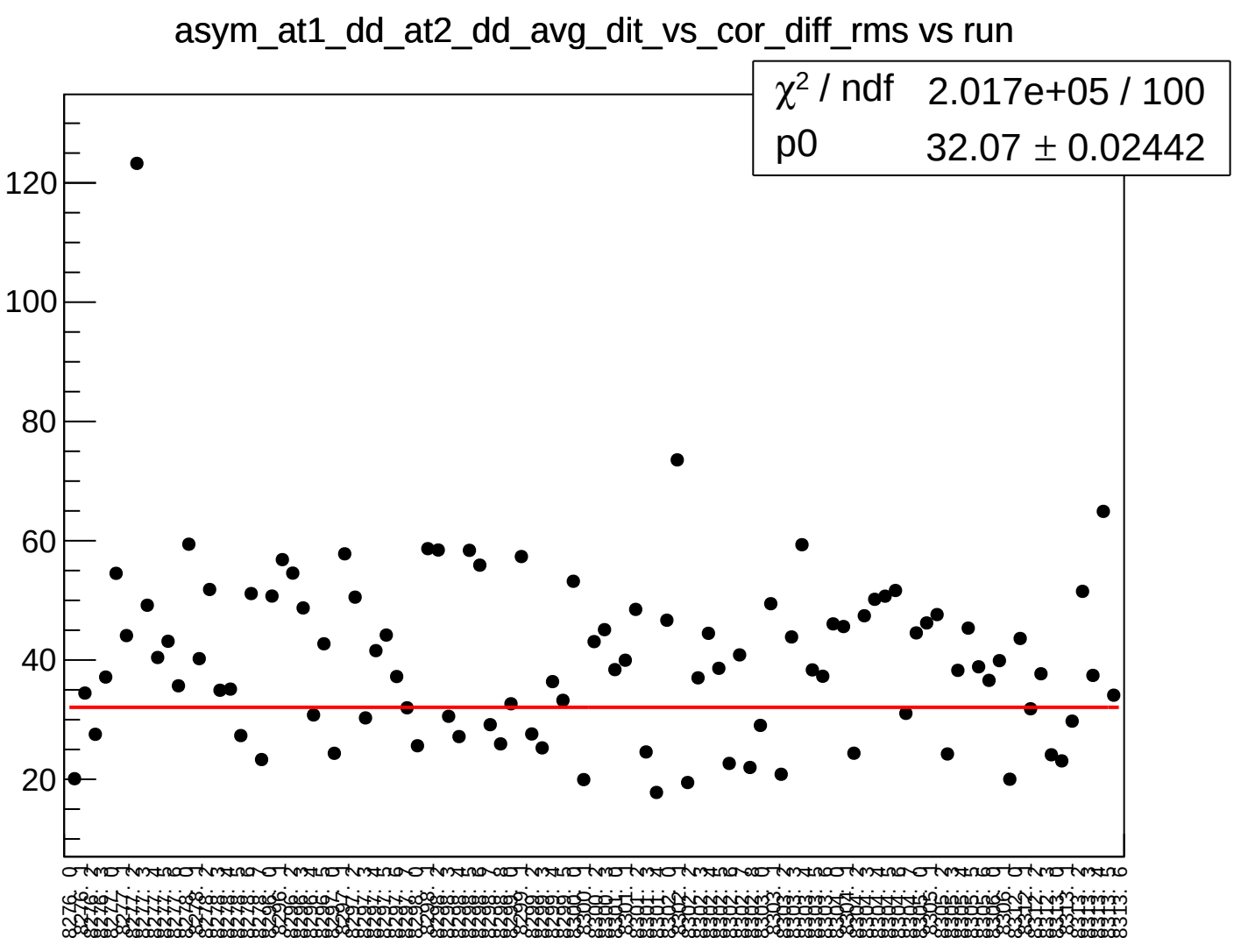

asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 92 / 100
p0 1226 ± 1821
pull
Entries 101
Mean 889.4
Std Dev 0
pull1D
Entries 101
Mean 0.003864
Std Dev 0.9544

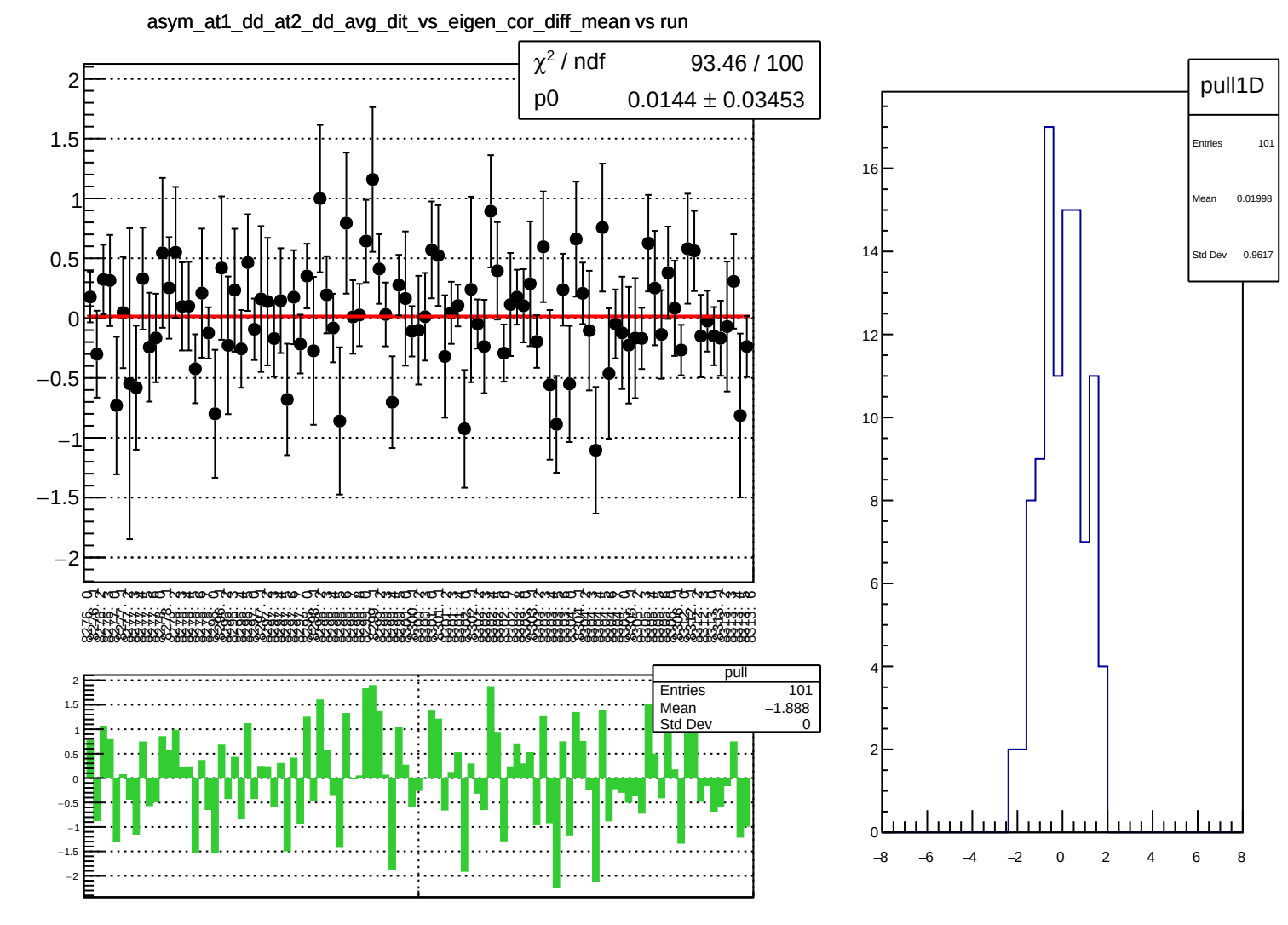

asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 834.4 / 100
p0 1787 ± 1.287
1950
1900
1850
1800
1750
1700

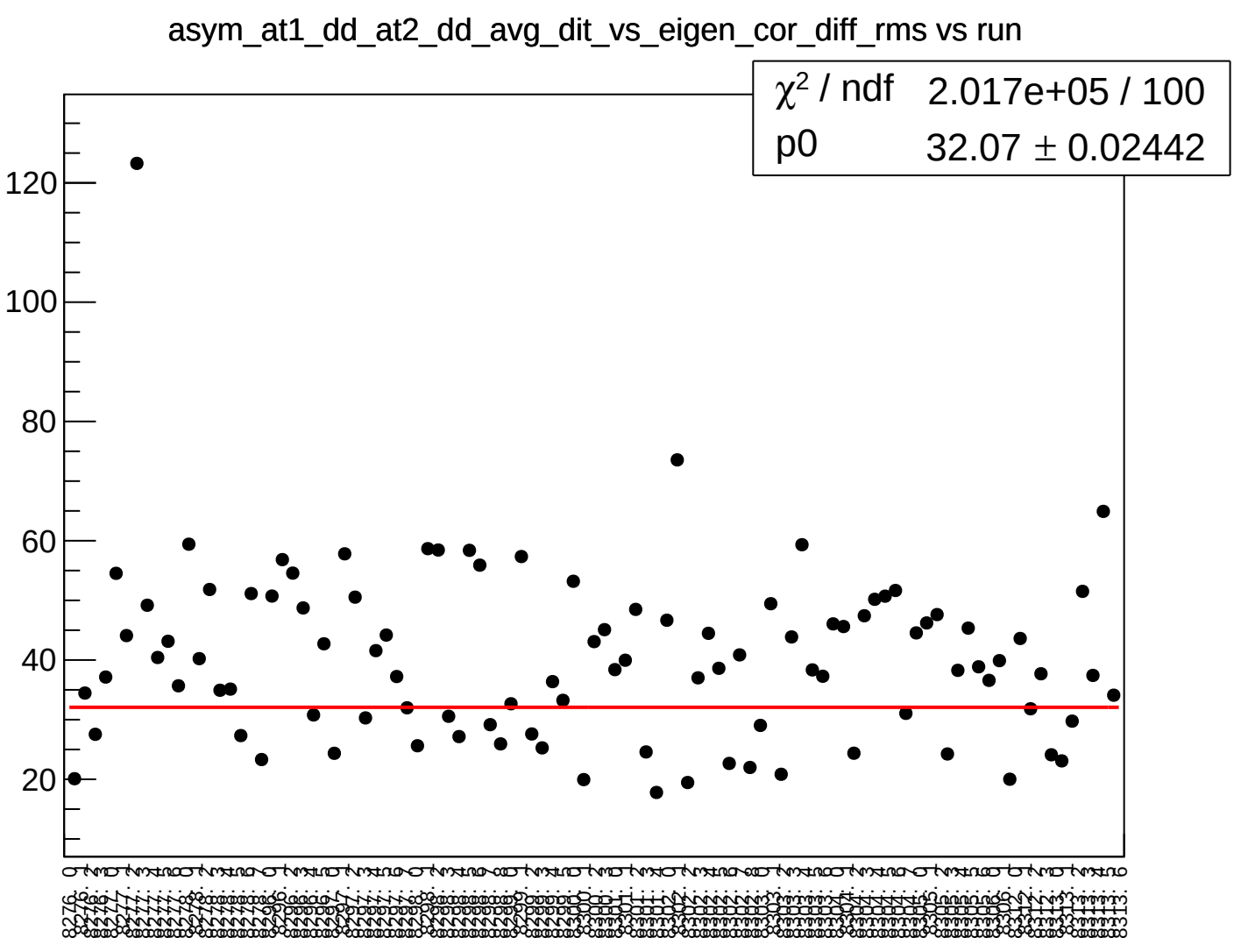

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 118 / 100
p0 1.944e−13 ± 1.281e−13
pull
Entries 101
Mean −105.6
Std Dev 0
pull1D
Entries 101
Mean 0.02129
Std Dev 1.081

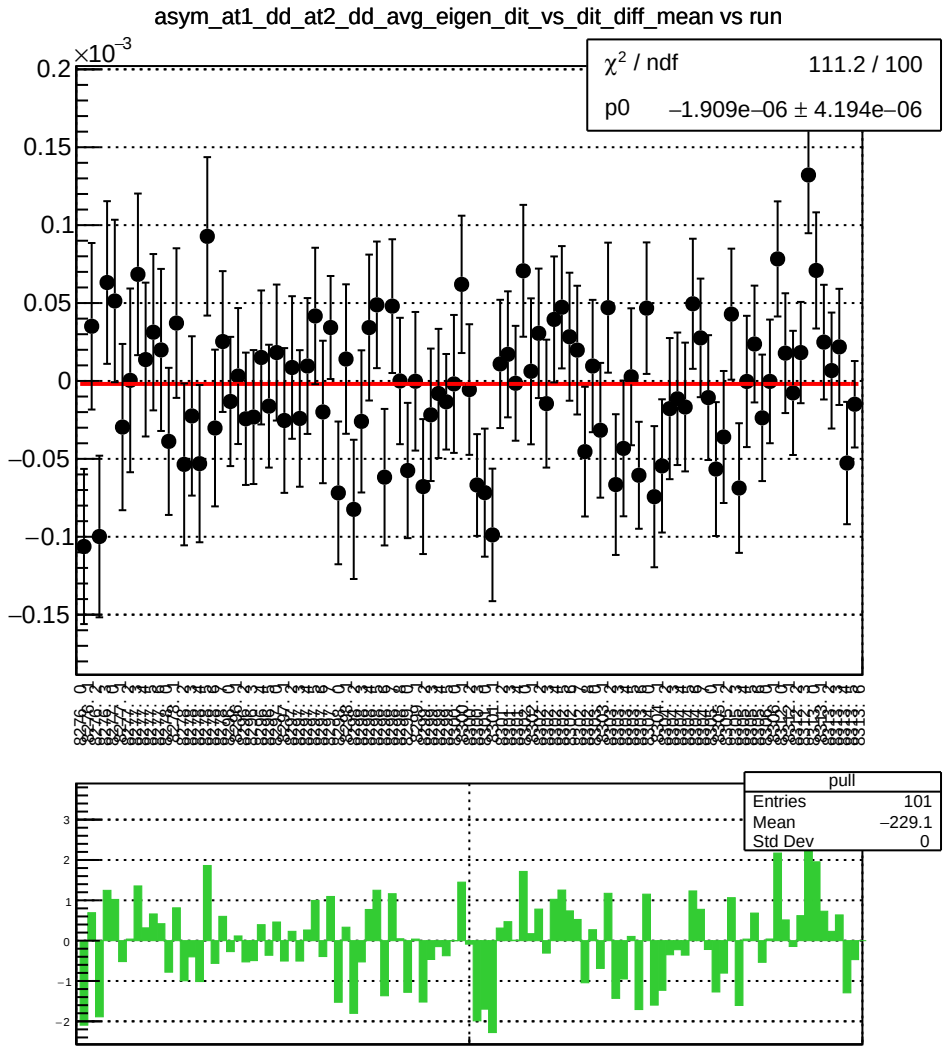

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.262e+05 / 100
p0 9.064e−11 ± 9.059e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

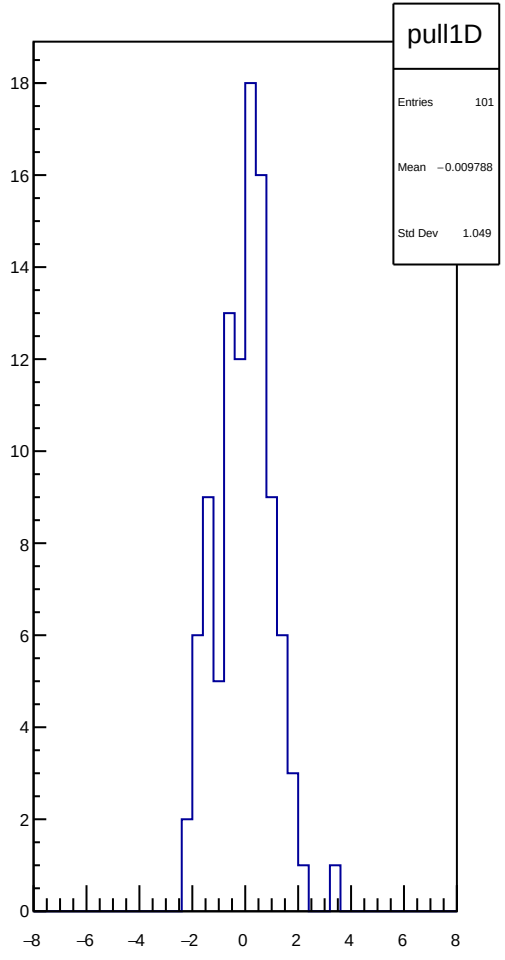

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 93.46 / 100
p0 0.0144 ± 0.03453
pull
Entries 101
Mean −1.888
Std Dev 0
pull1D
Entries 101
Mean 0.01998
Std Dev 0.9617

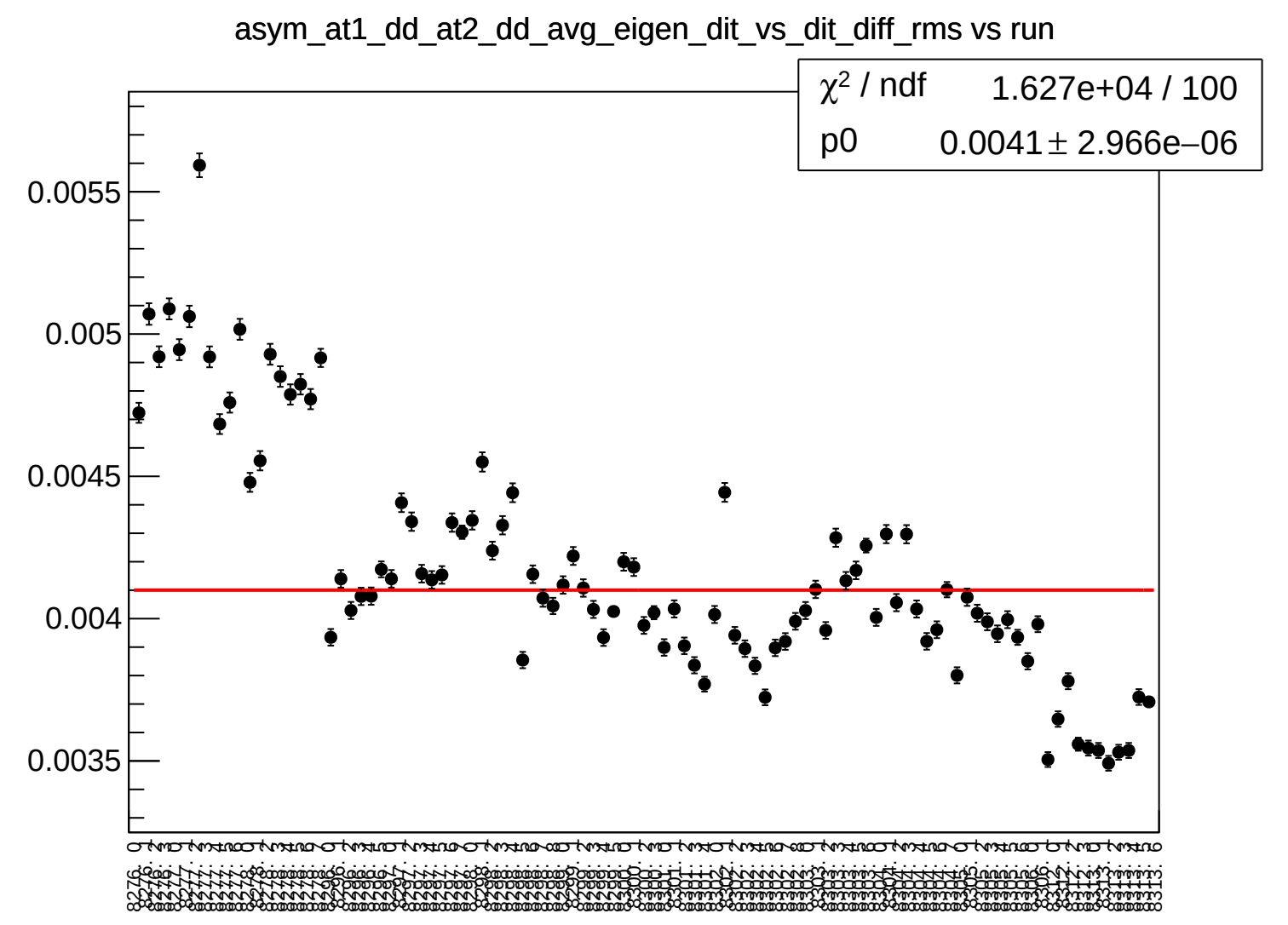

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.017e+05 / 100
p0 32.07 ± 0.02442
120
100
80
60
40
20

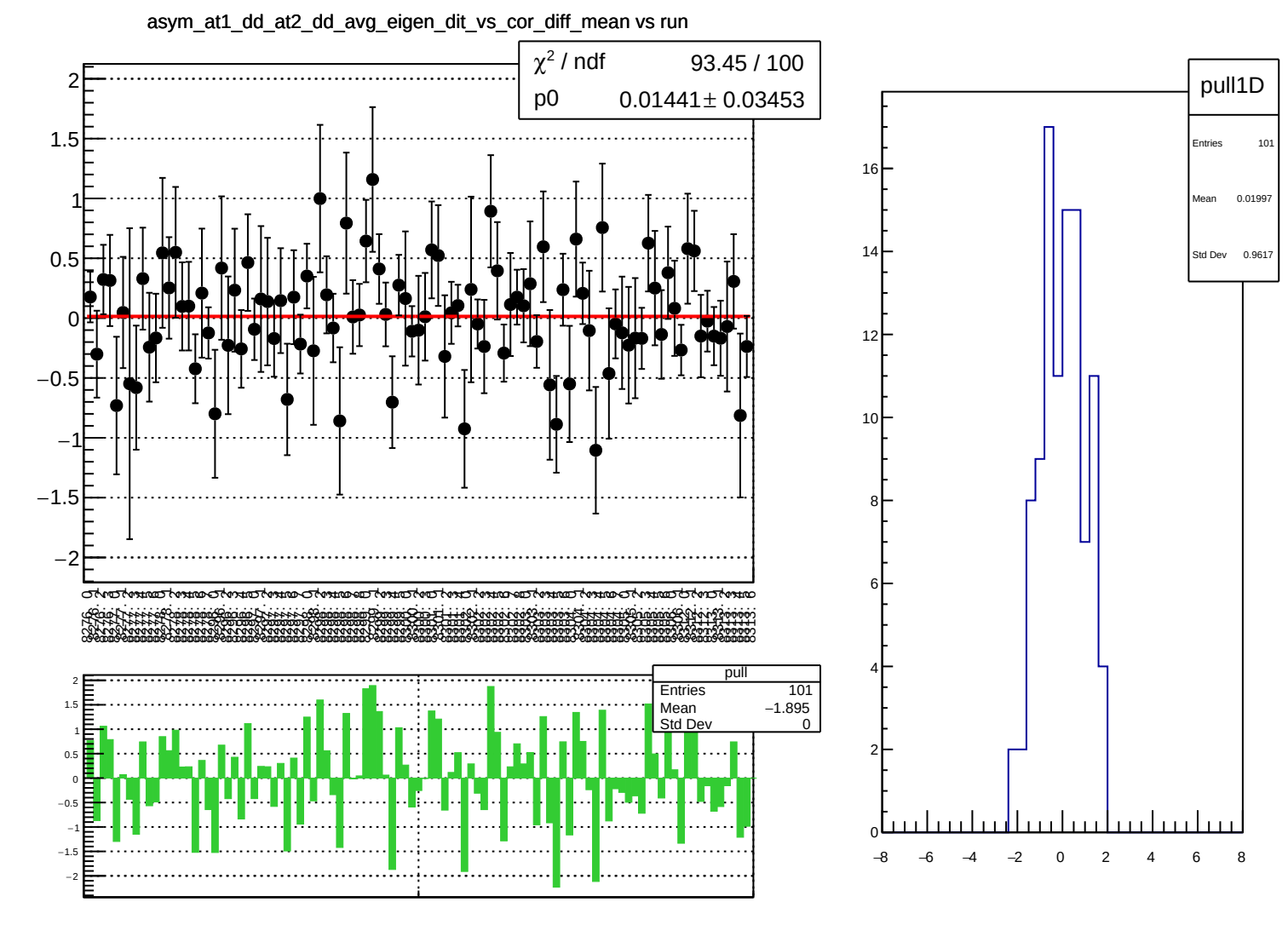

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.46 / 100
p0 0.0144 ± 0.03453
pull
Entries 101
Mean −1.888
Std Dev 0
pull1D
Entries 101
Mean 0.01998
Std Dev 0.9617

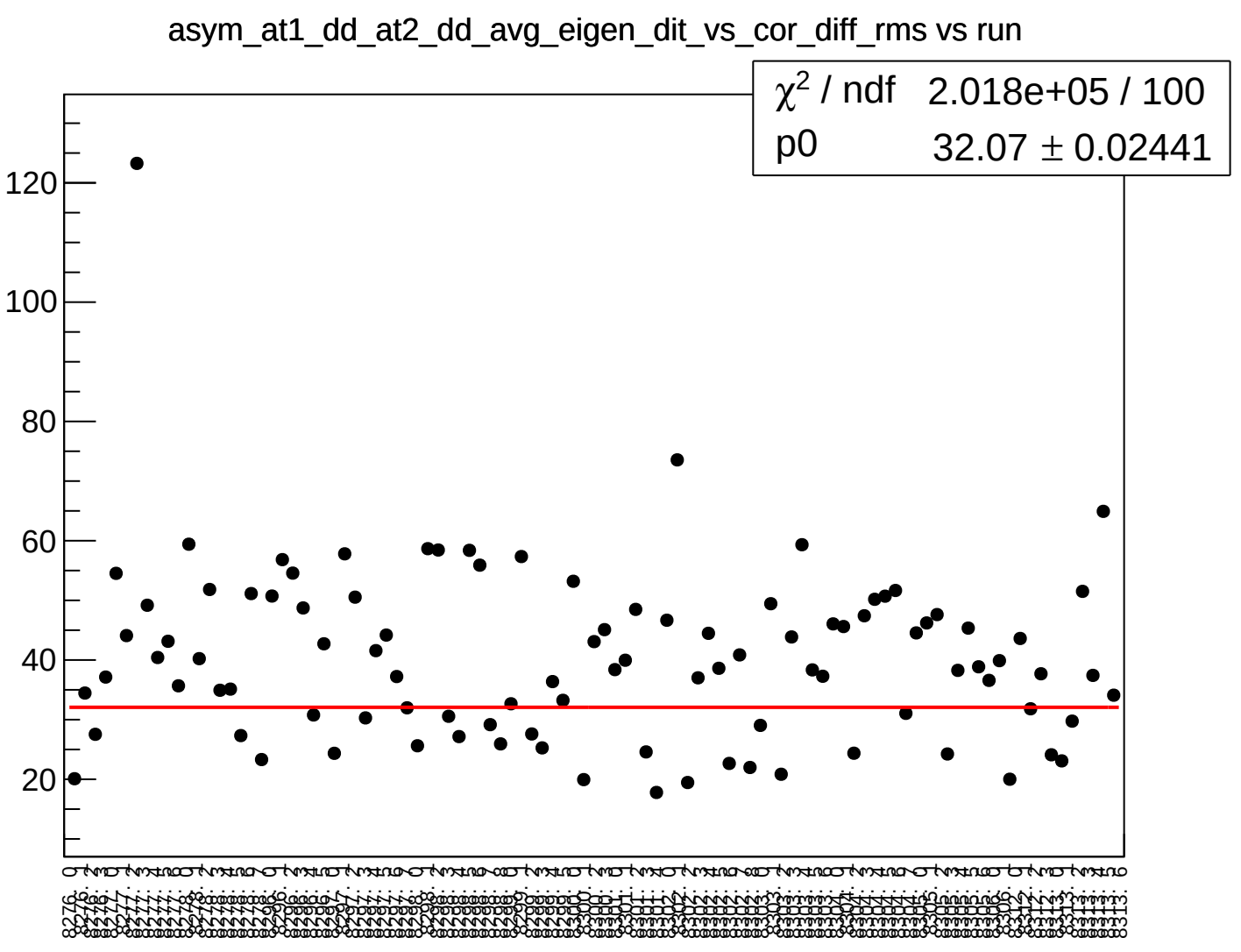

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.017e+05 / 100
p0 32.07 ± 0.02442
120
100
80
60
40
20

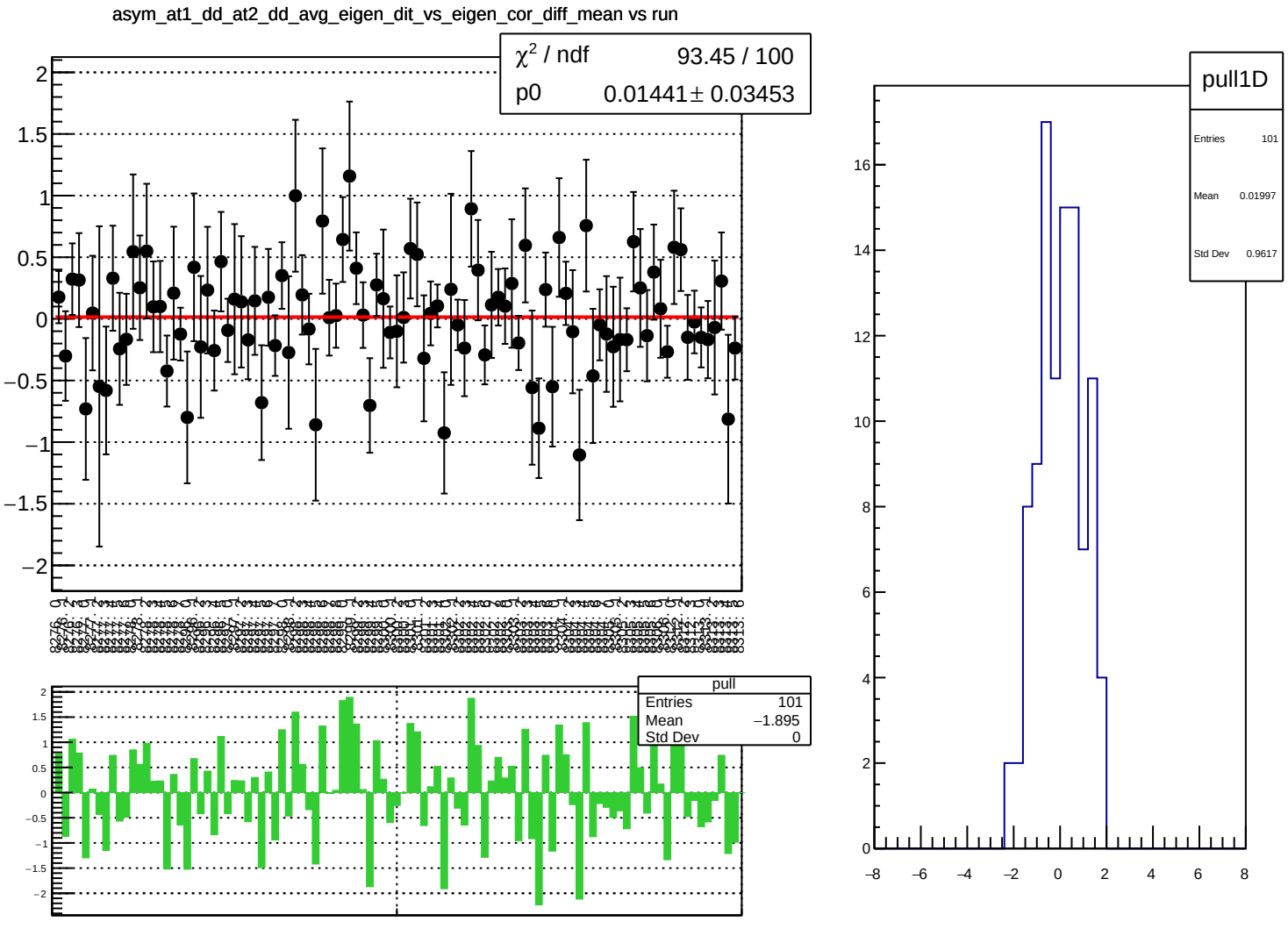

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 111.2 / 100
p0 −1.909e−06 ± 4.194e−06
pull
Entries 101
Mean −229.1
Std Dev 0

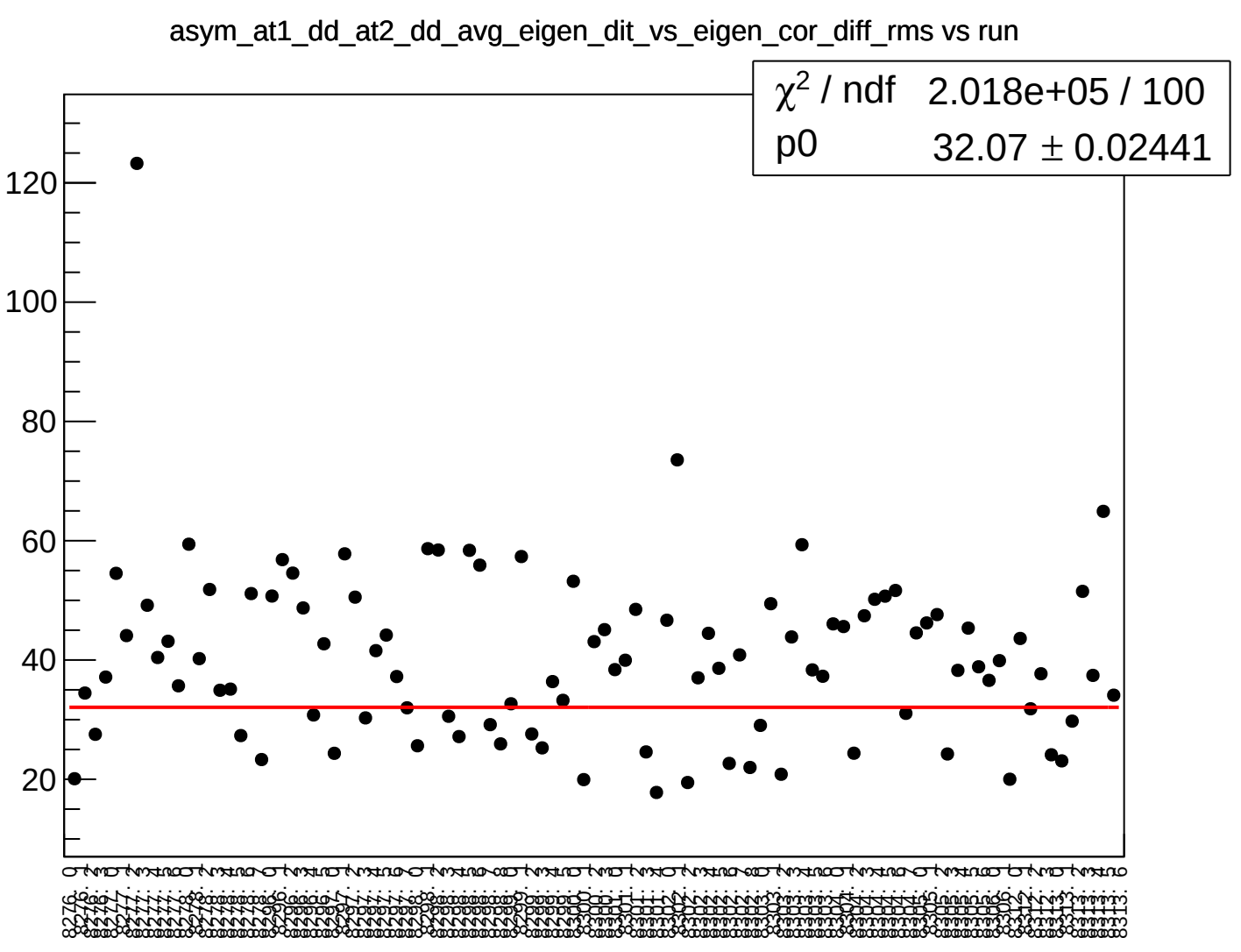

pull1D
Entries 101
Mean −0.009788
Std Dev 1.049

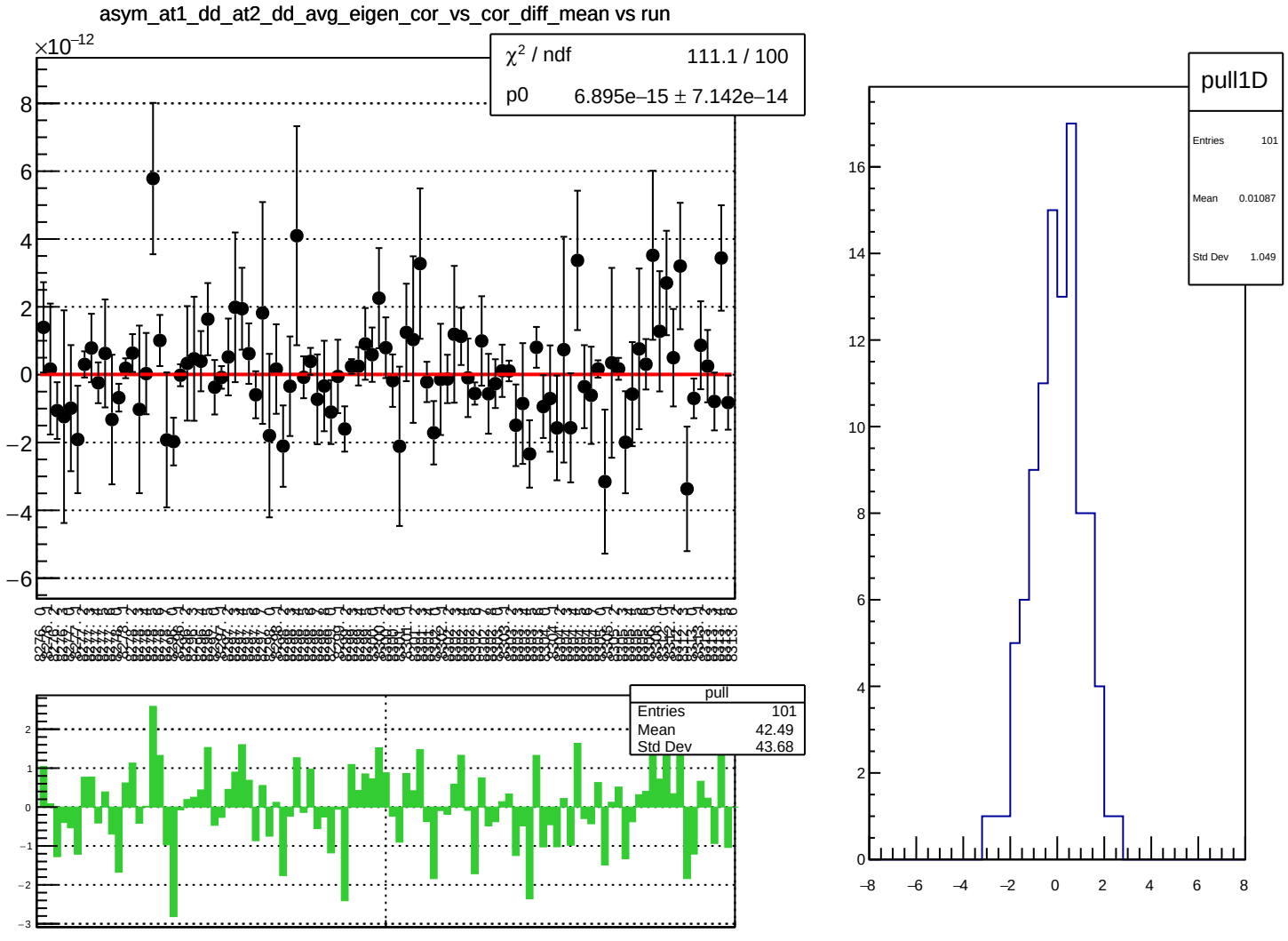

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.627e+04 / 100
p0 0.0041 ± 2.966e−06
0.0055
0.005
0.0045
0.004
0.0035

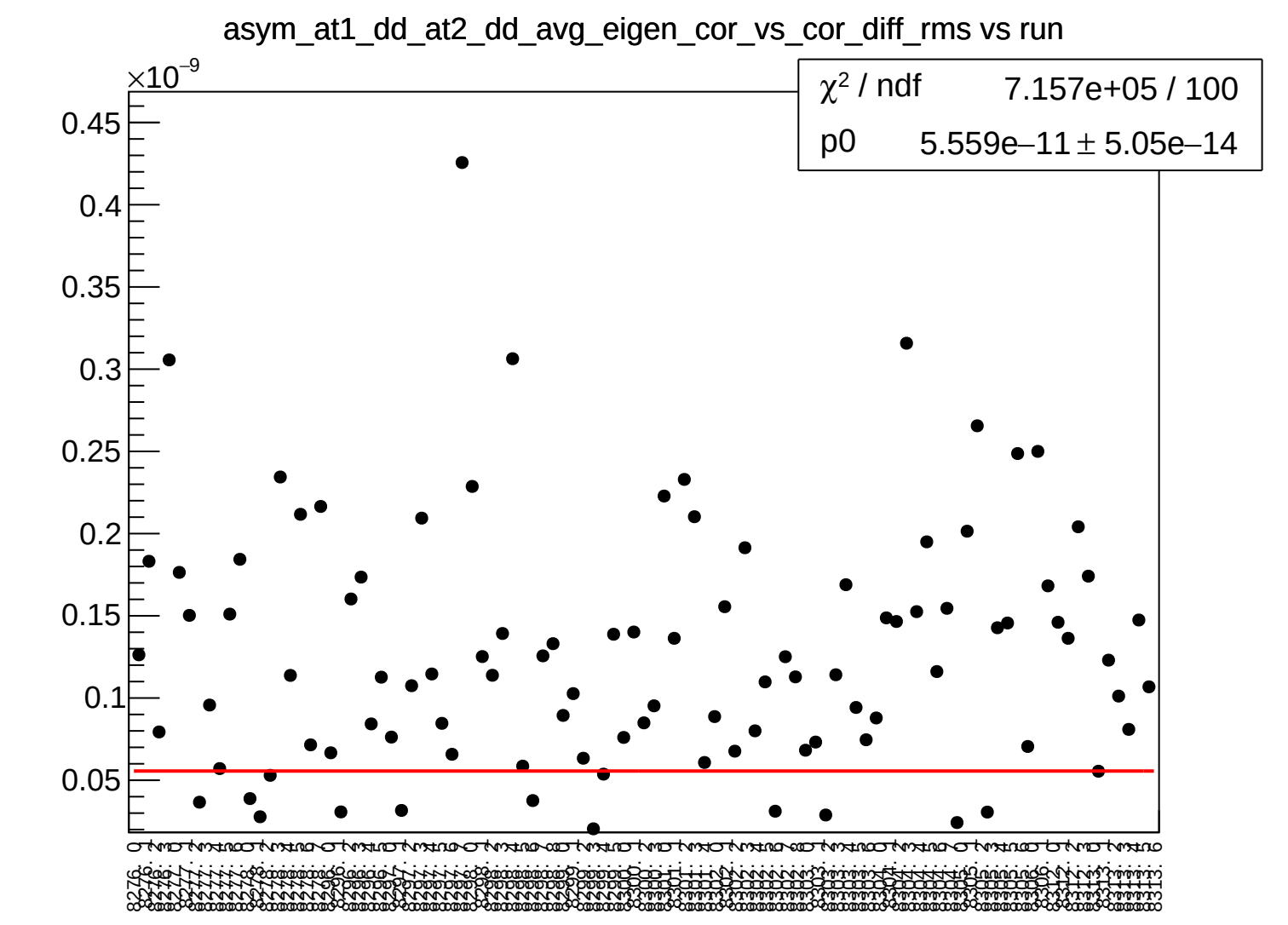

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.45 / 100
p0 0.01441 ± 0.03453
pull
Entries 101
Mean −1.895
Std Dev 0
pull1D
Entries 101
Mean 0.01997
Std Dev 0.9617

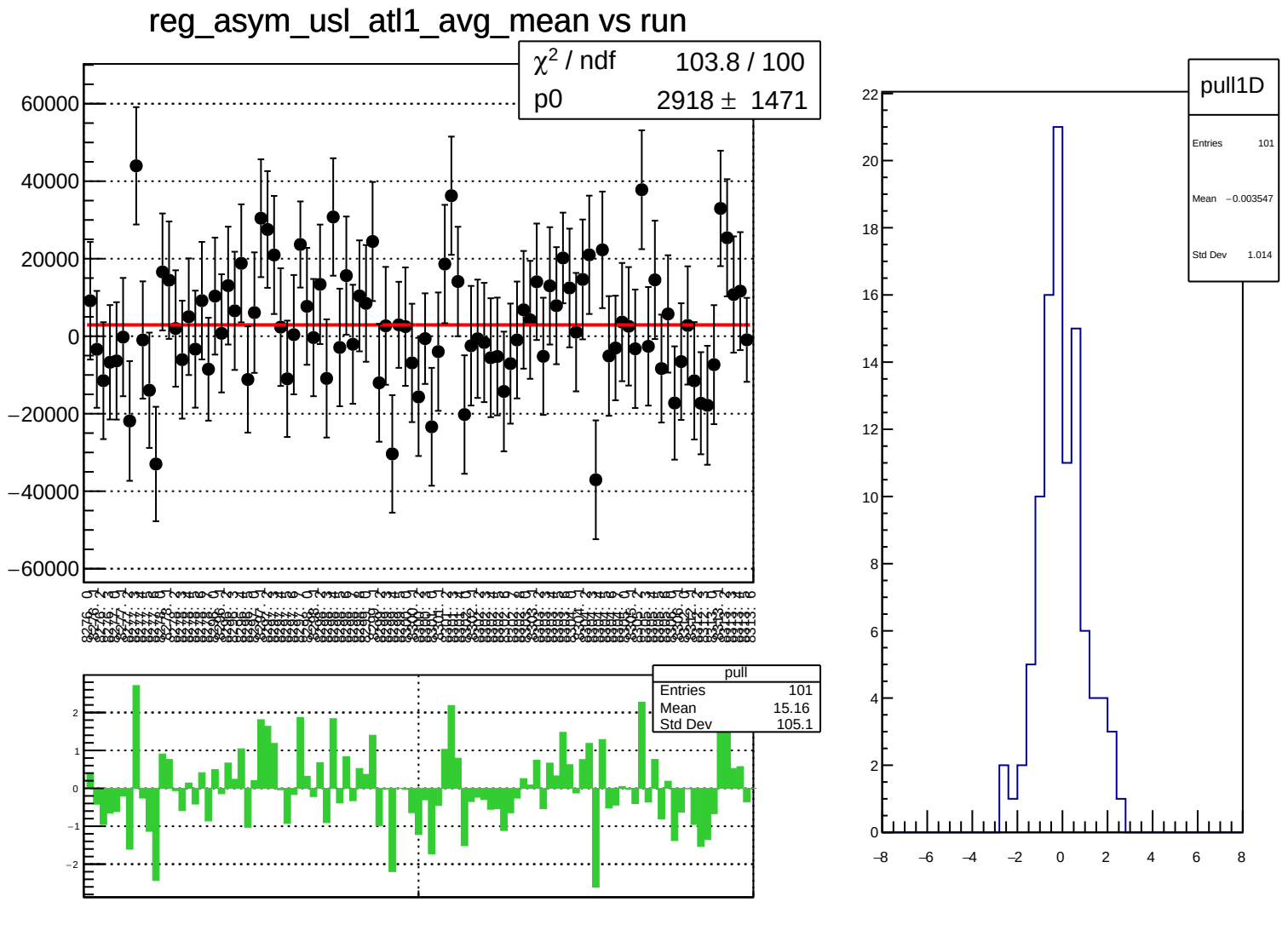

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.018e+05 / 100
p0 32.07 ± 0.02441
120
100
80
60
40
20

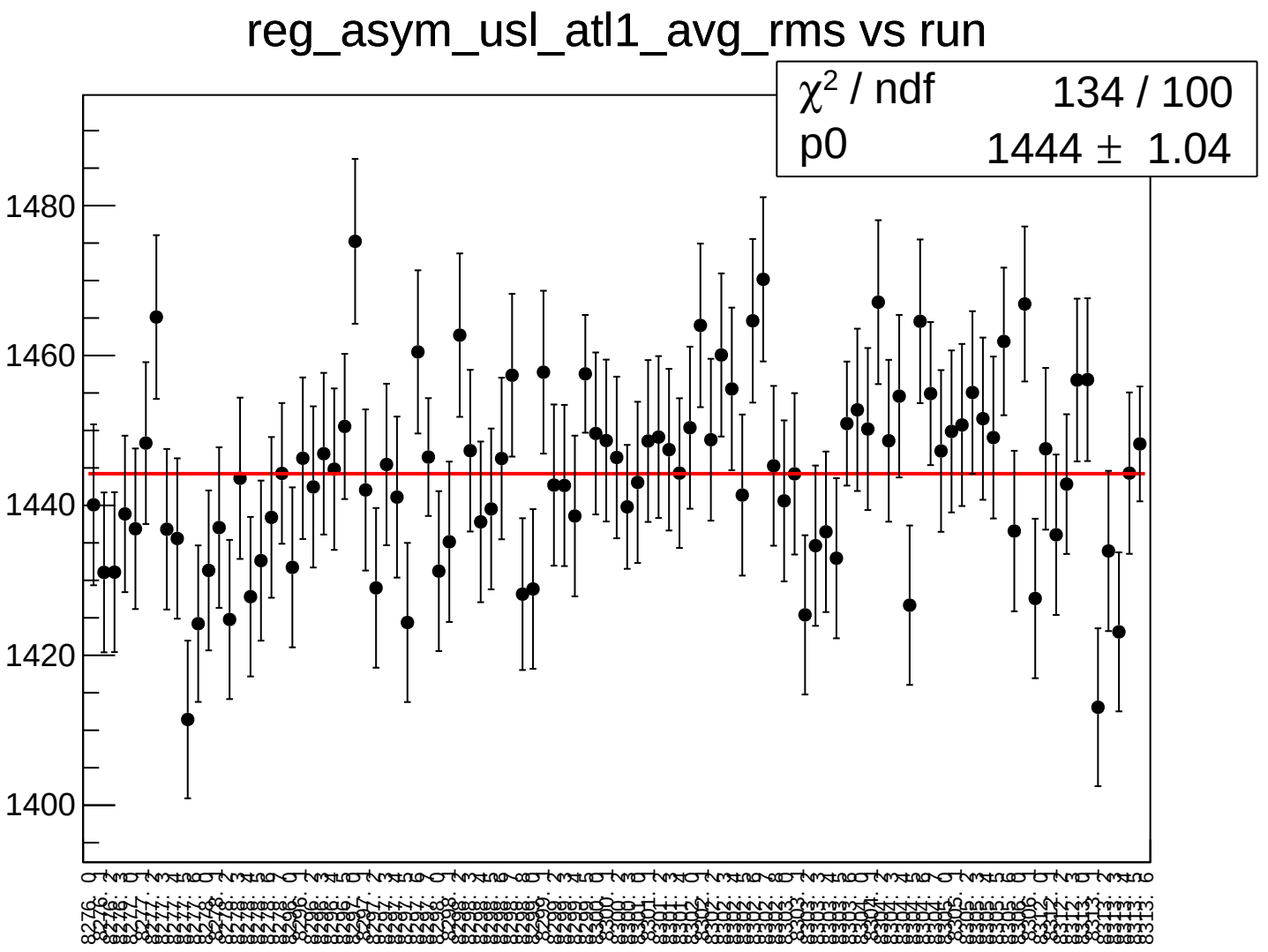

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.45 / 100
p0 0.01441 ± 0.03453
pull
Entries 101
Mean −1.895
Std Dev 0
pull1D
Entries 101
Mean 0.01997
Std Dev 0.9617

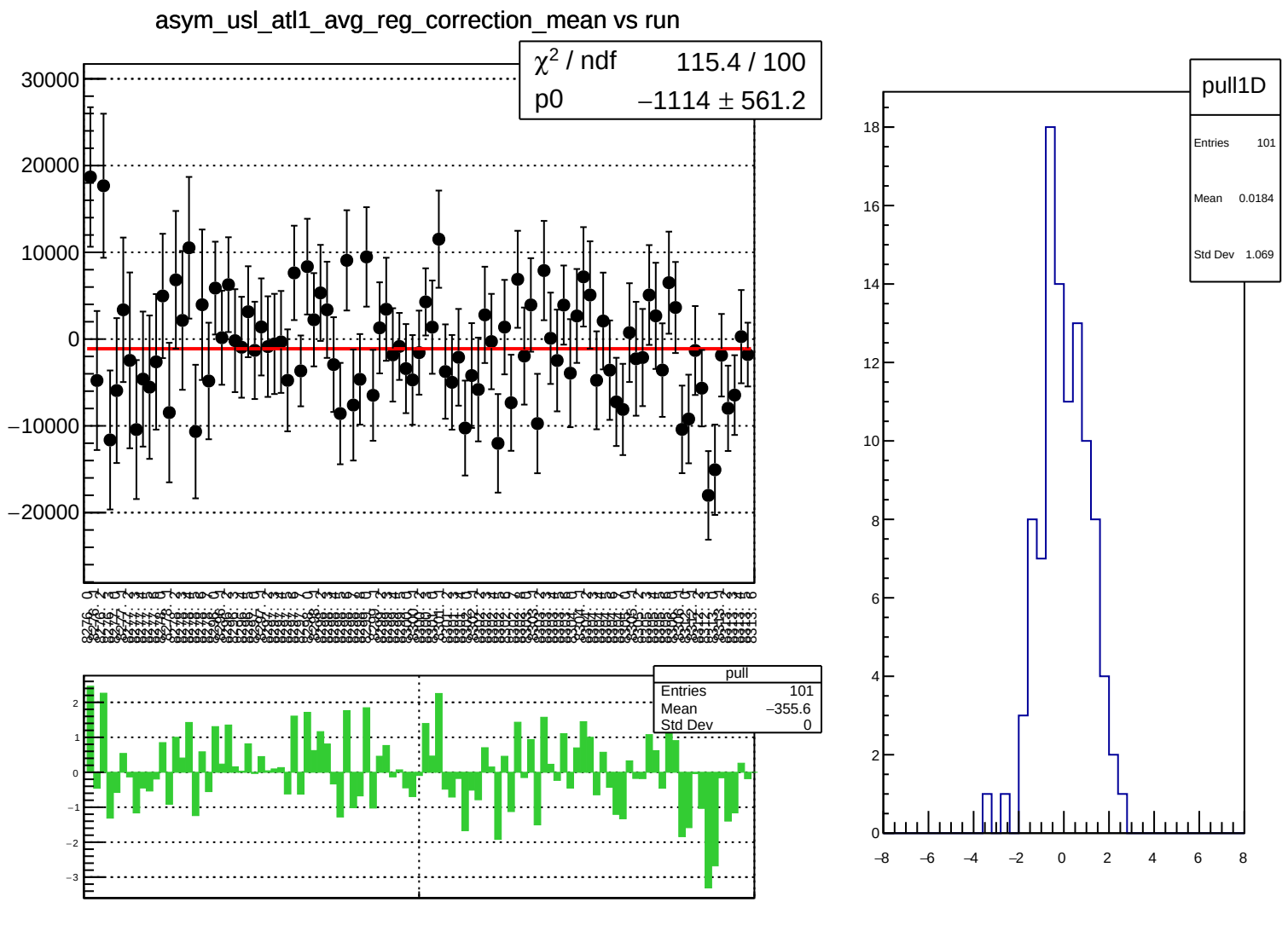

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.018e+05 / 100
p0 32.07 ± 0.02441
120
100
80
60
40
20

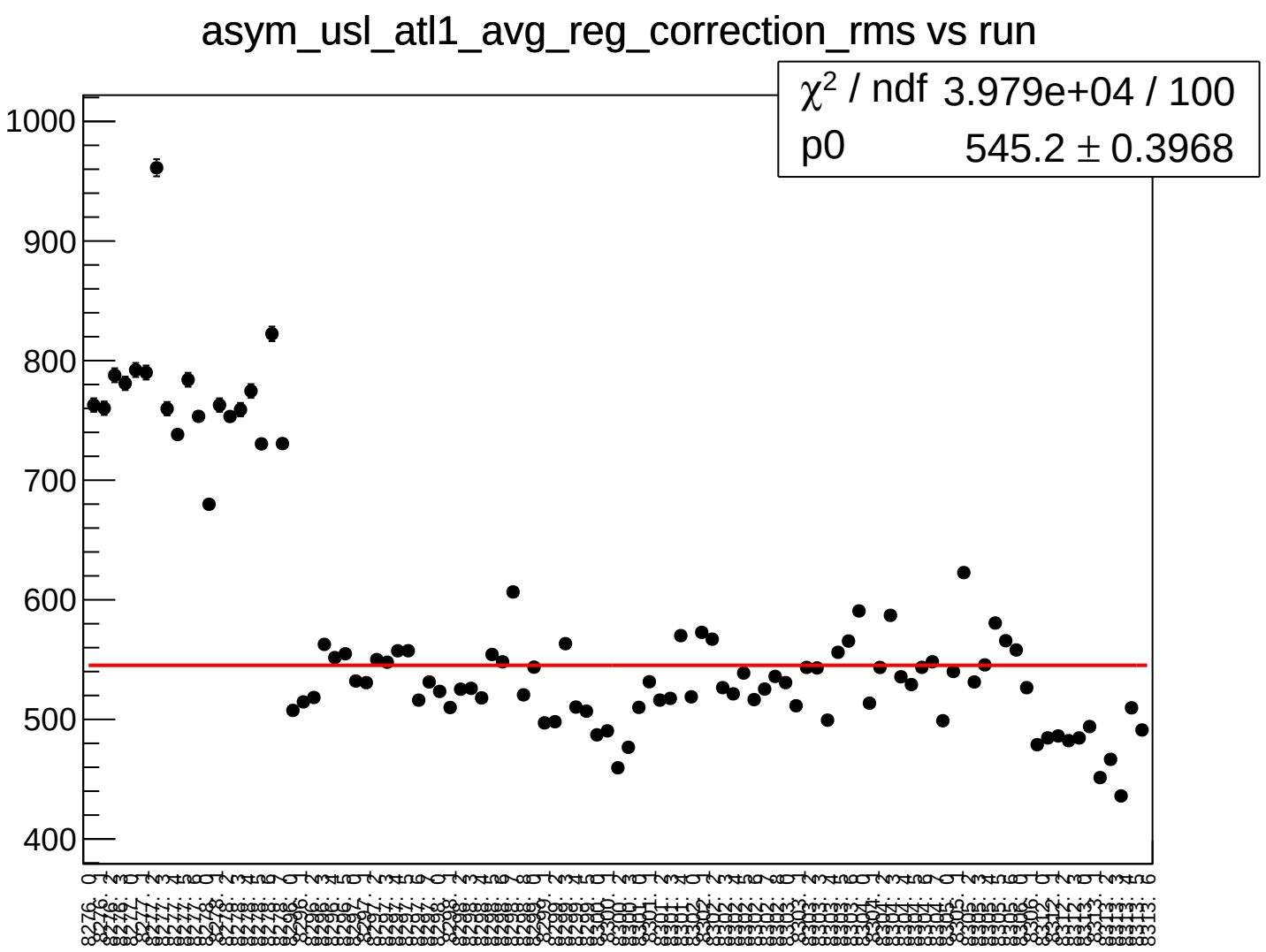

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 111.1 / 100
p0 6.895e−15 ± 7.142e−14
pull
Entries 101
Mean 42.49
Std Dev 43.68
pull1D
Entries 101
Mean 0.01087
Std Dev 1.049

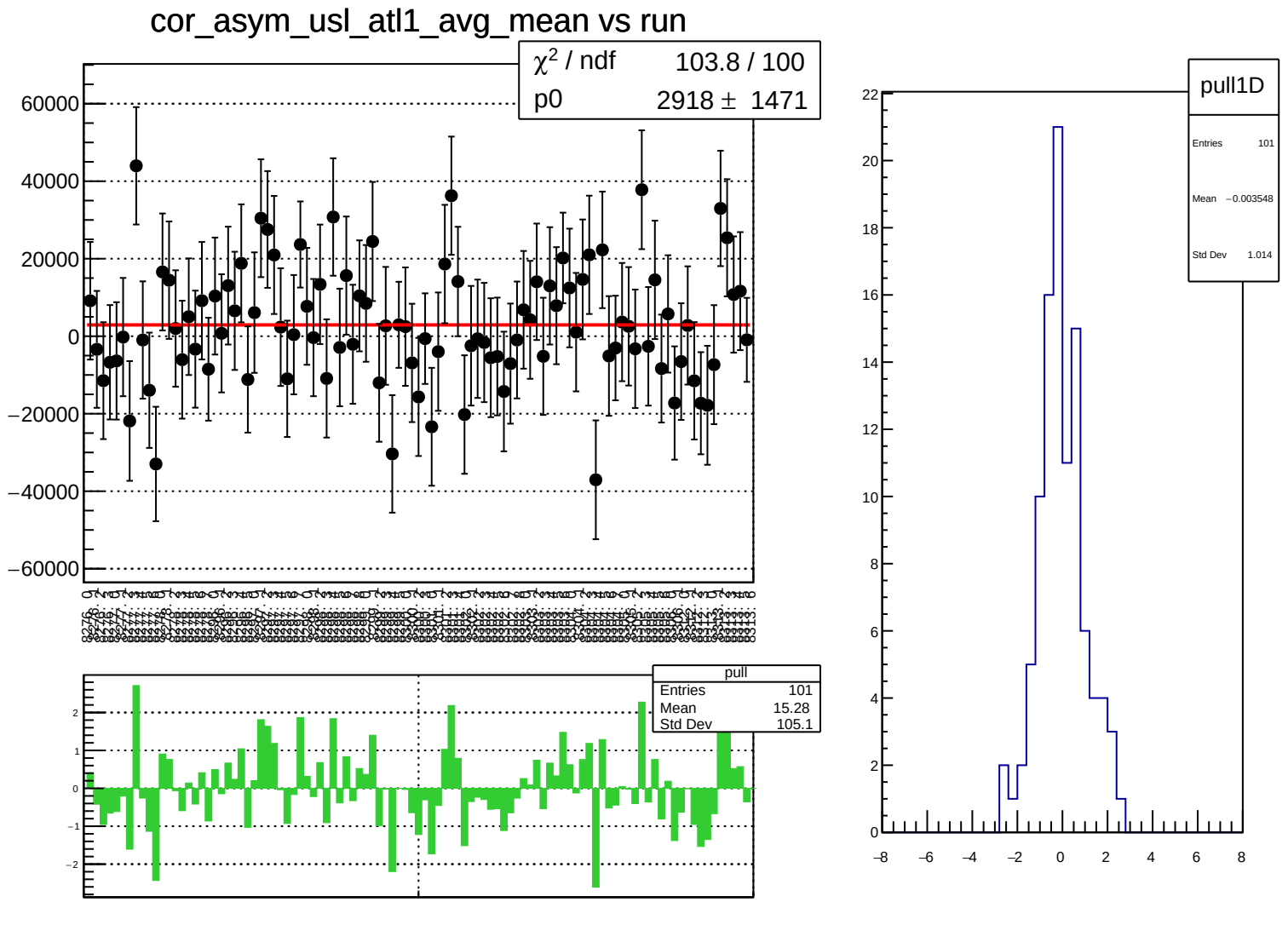

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.157e+05 / 100
p0 5.559e−11 ± 5.05e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

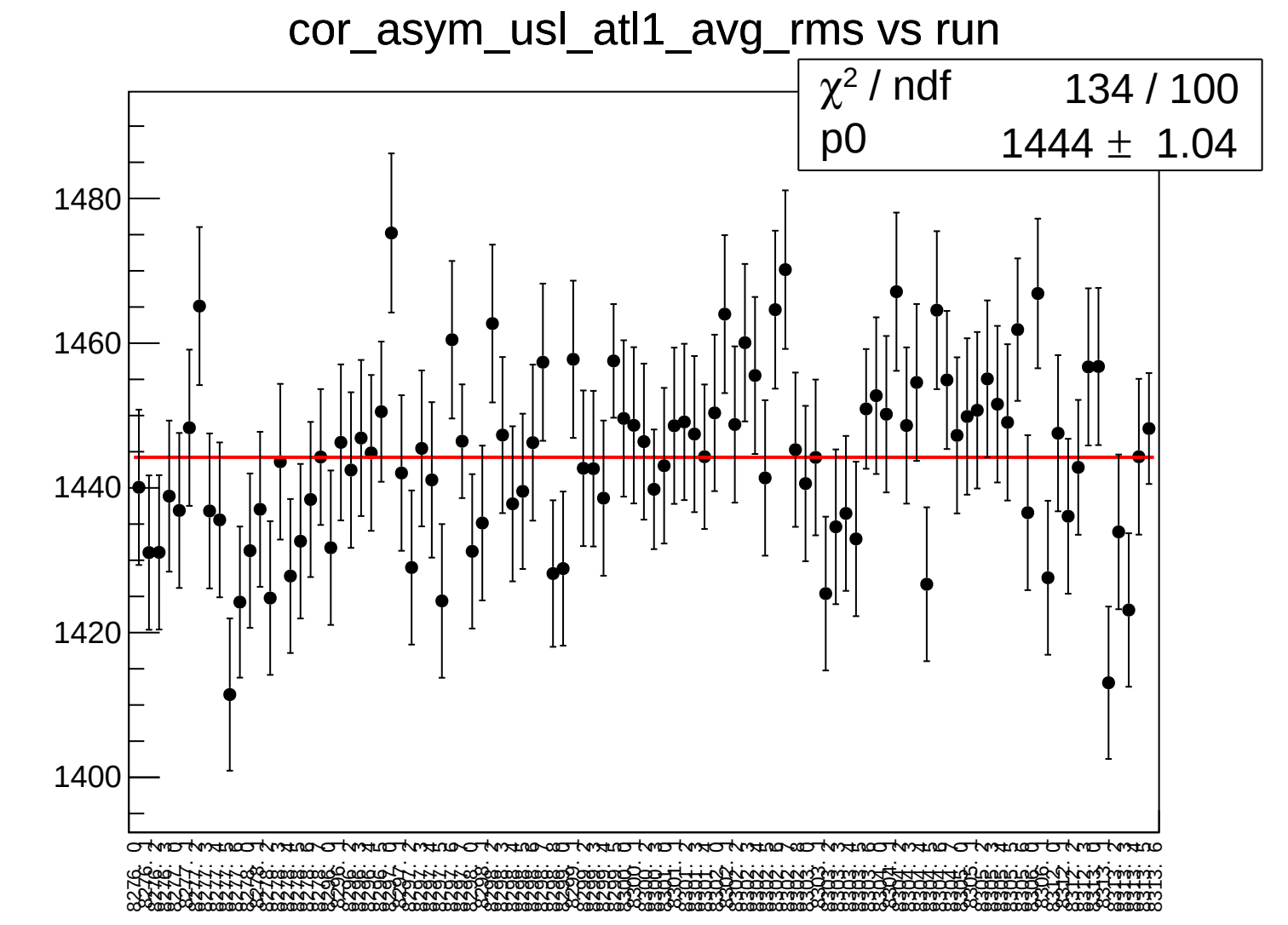

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 103.8 / 100
p0 2918 ± 1471
pull
Entries 101
Mean 15.16
Std Dev 105.1
pull1D
Entries 101
Mean −0.003547
Std Dev 1.014

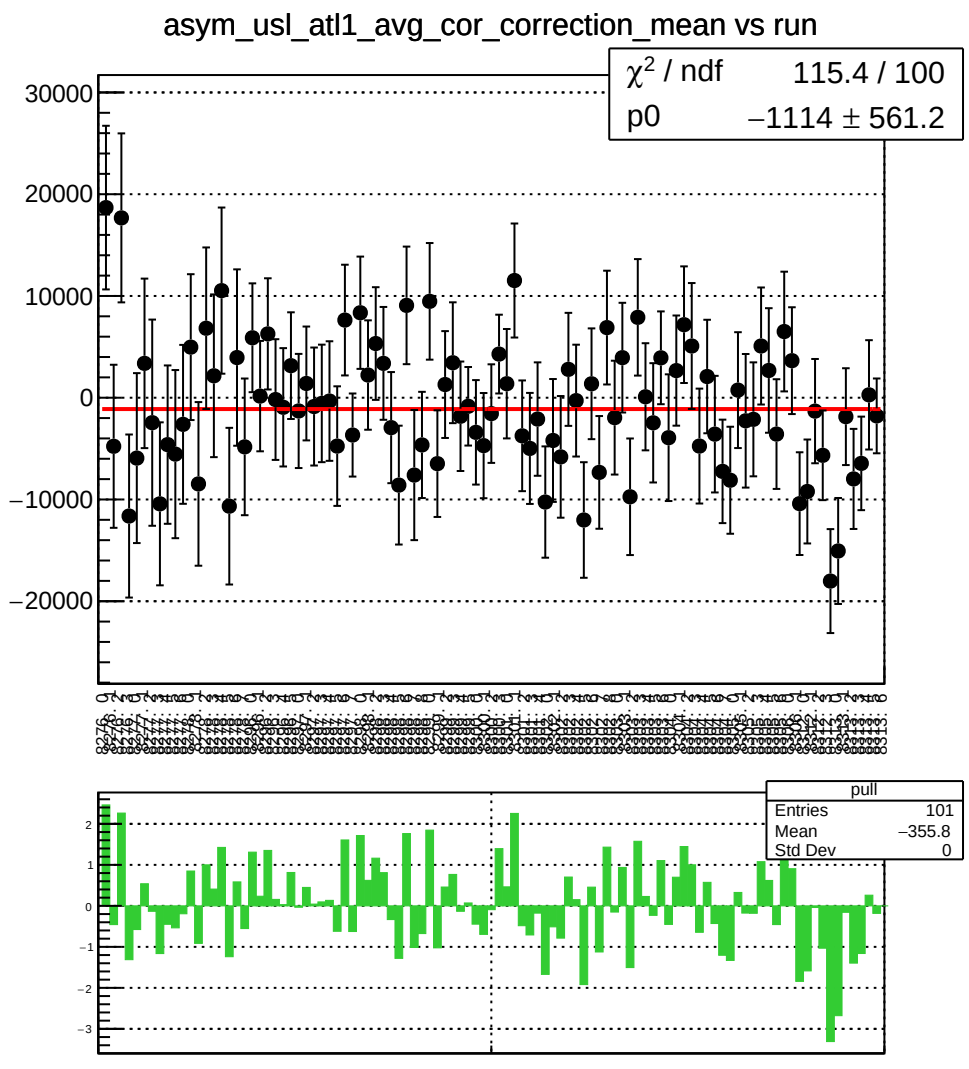

reg_asym_usl_atl1_avg_rms vs run
χ² / ndf 134 / 100
p0 1444 ± 1.04
1480
1460
1440
1420
1400

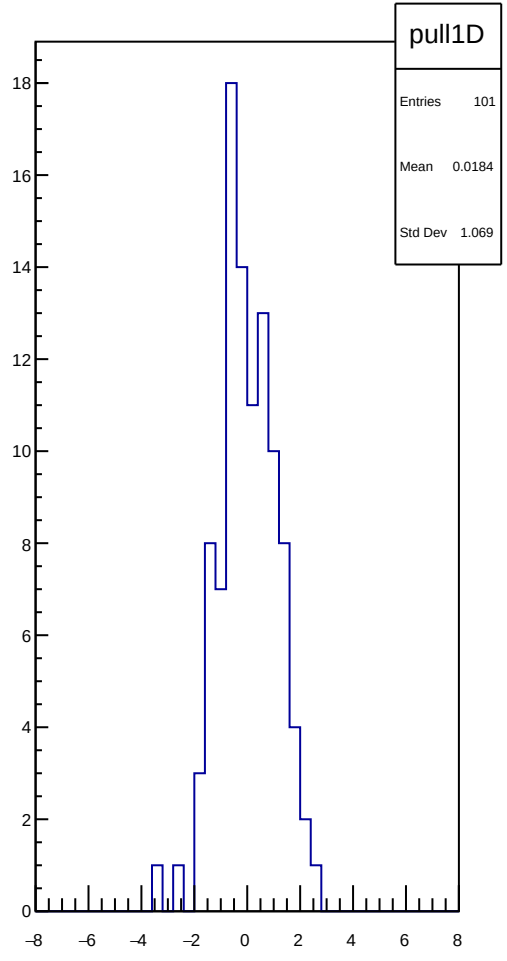

asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 115.4 / 100
p0 −1114 ± 561.2
30000
20000
10000
0
−10000
−20000
pull
Entries 101
Mean −355.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.0184
Std Dev 1.069
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

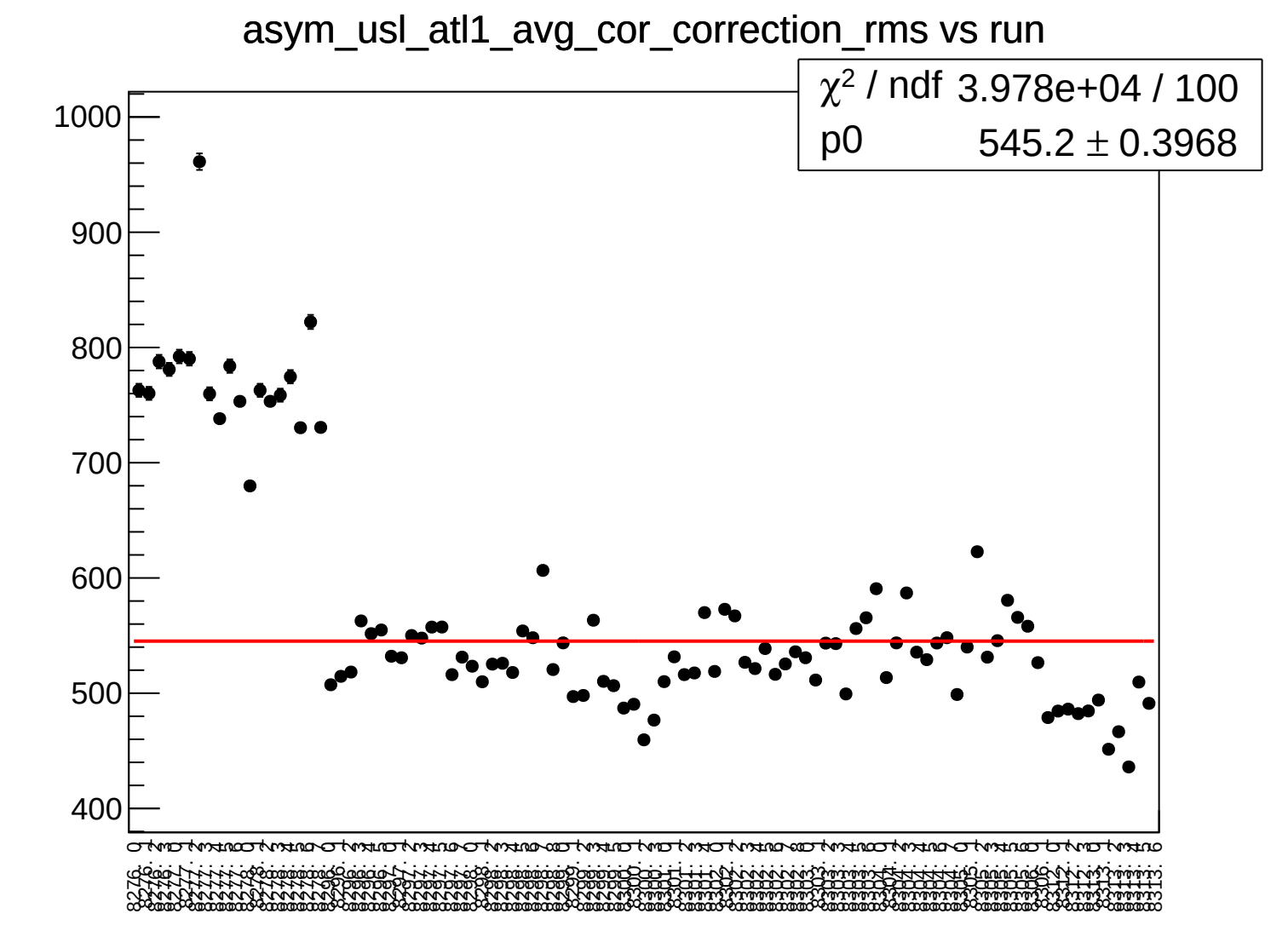

asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 3.979e+04 / 100
p0 545.2 ± 0.3968
1000
900
800
700
600
500
400

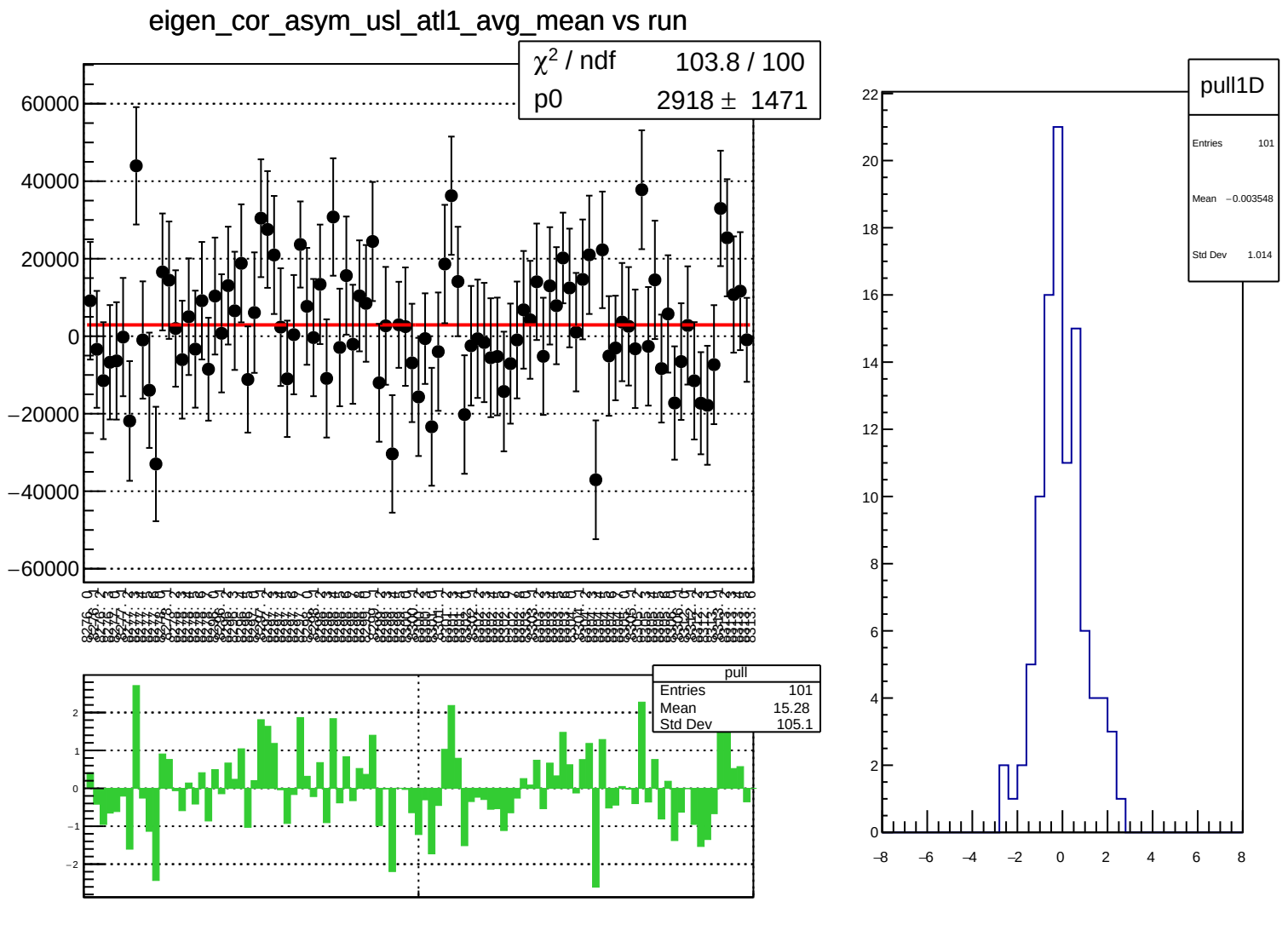

cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 103.8 / 100
p0 2918 ± 1471
pull
Entries 101
Mean 15.28
Std Dev 105.1
pull1D
Entries 101
Mean −0.003548
Std Dev 1.014


cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 134 / 100
p0 1444 ± 1.04
1480
1460
1440
1420
1400


asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 115.4 / 100
p0 −1114 ± 561.2
30000
20000
10000
0
−10000
−20000
pull
Entries 101
Mean −355.8
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 101
Mean 0.0184
Std Dev 1.069
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 3.978e+04 / 100
p0 545.2 ± 0.3968
1000
900
800
700
600
500
400


eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 103.8 / 100
p0 2918 ± 1471
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean 15.28
Std Dev 105.1
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.003548
Std Dev 1.014
22
20
18
16
14
12
10
8
6
4
2
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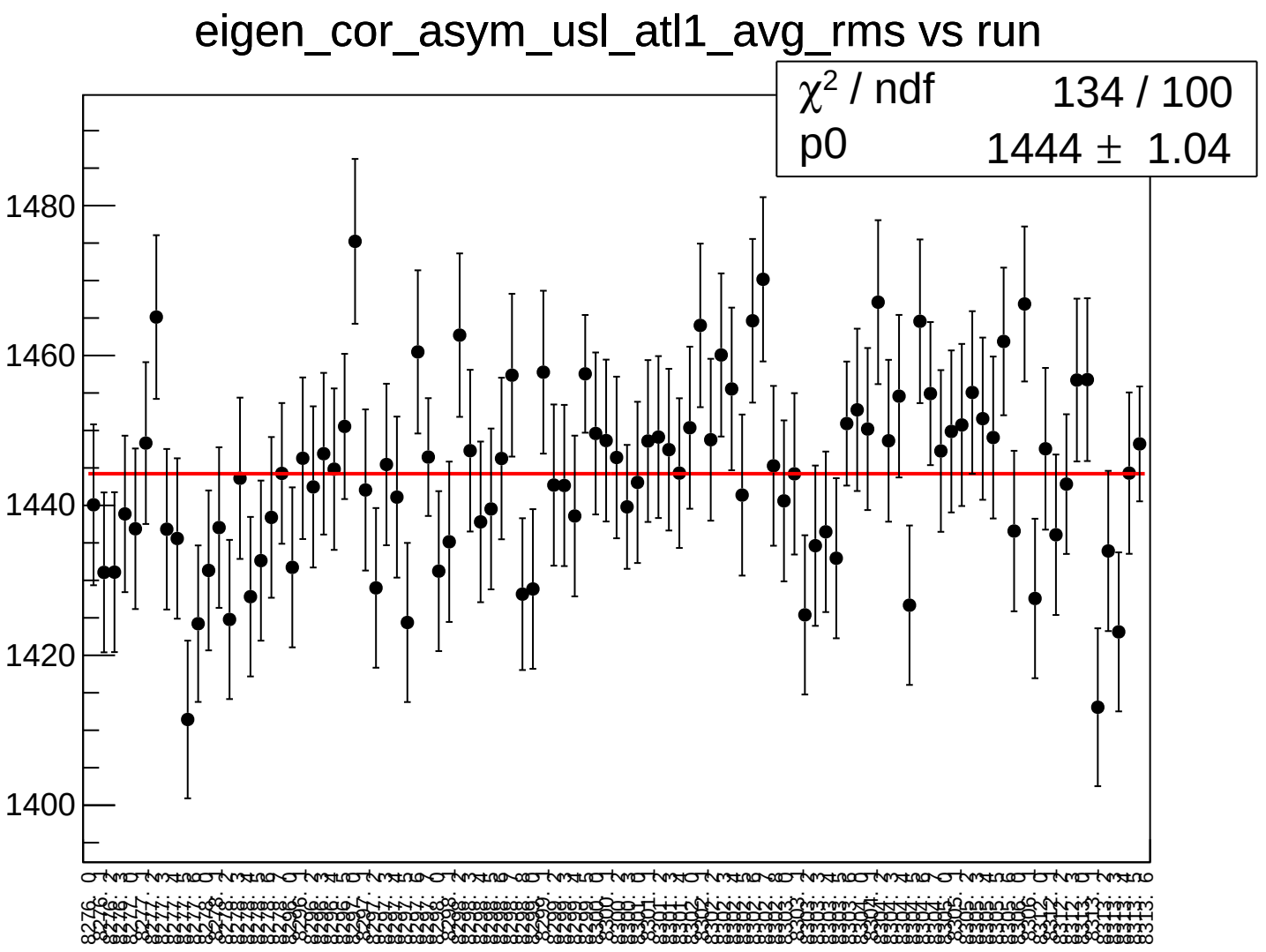
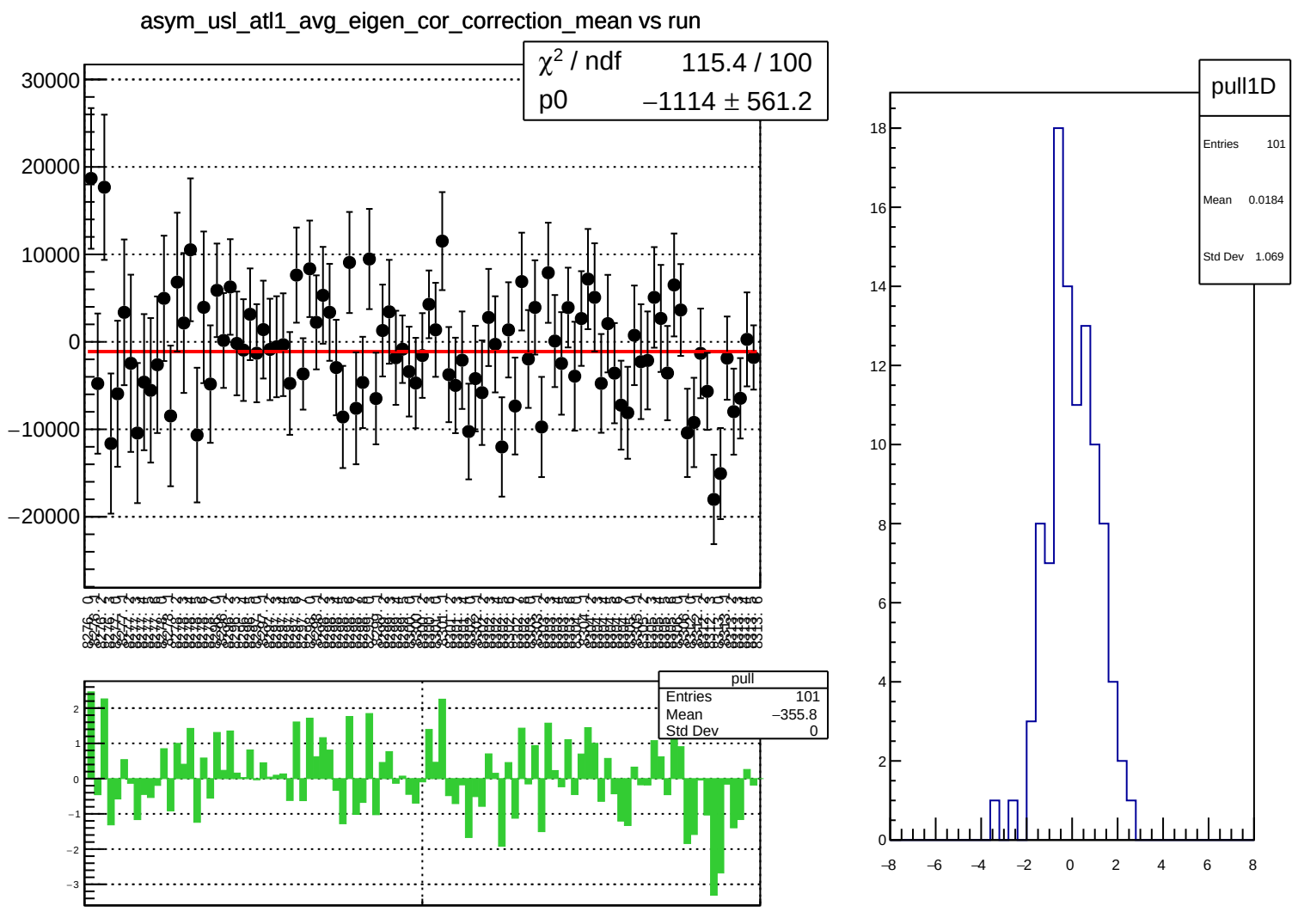
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 134 / 100
p0 1444 ± 1.04
1480
1460
1440
1420
1400


asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 115.4 / 100
p0 −1114 ± 561.2
30000
20000
10000
0
−10000
−20000
pull
Entries 101
Mean −355.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.0184
Std Dev 1.069
18
16
14
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10
8
6
4
2
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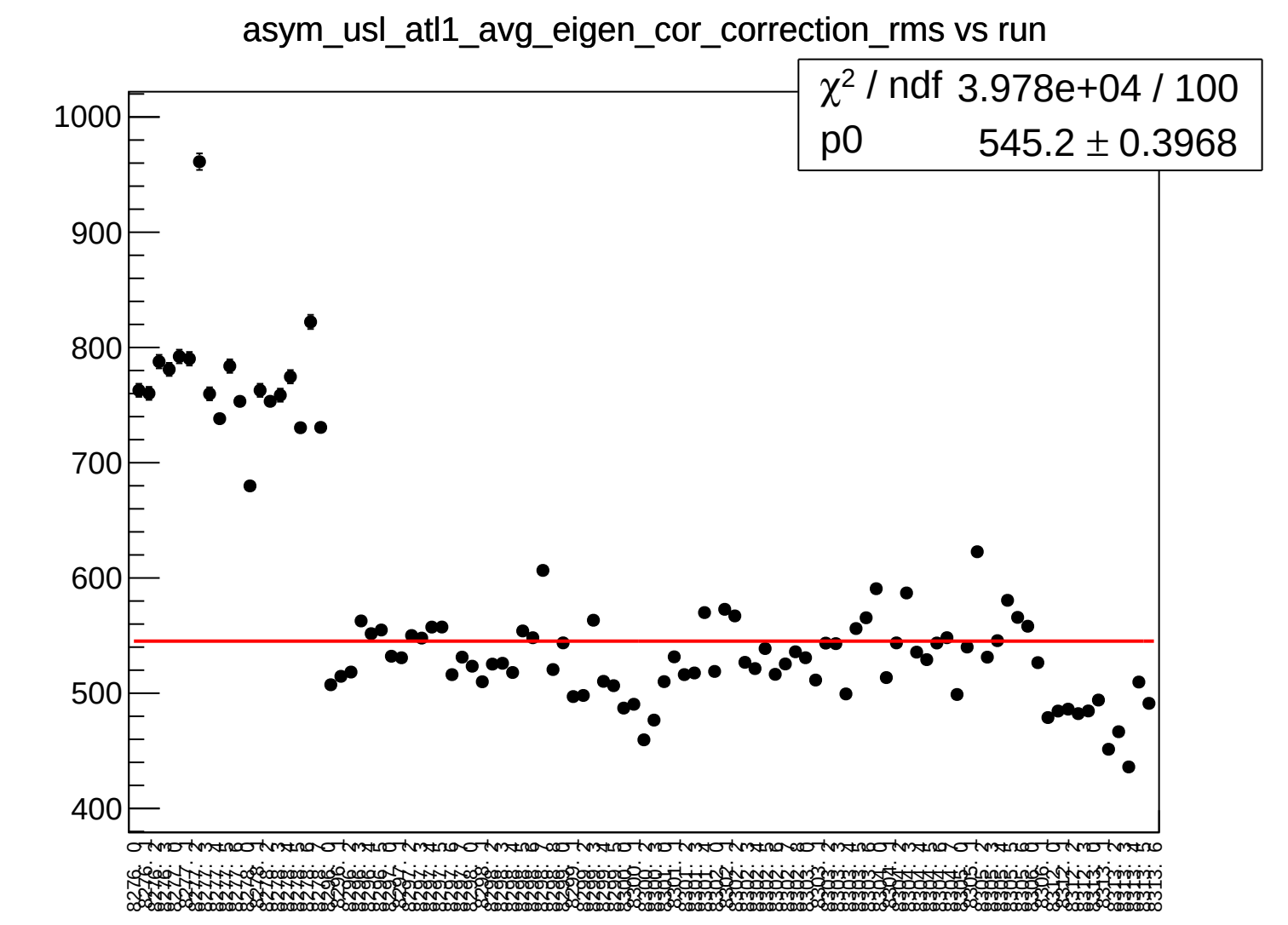
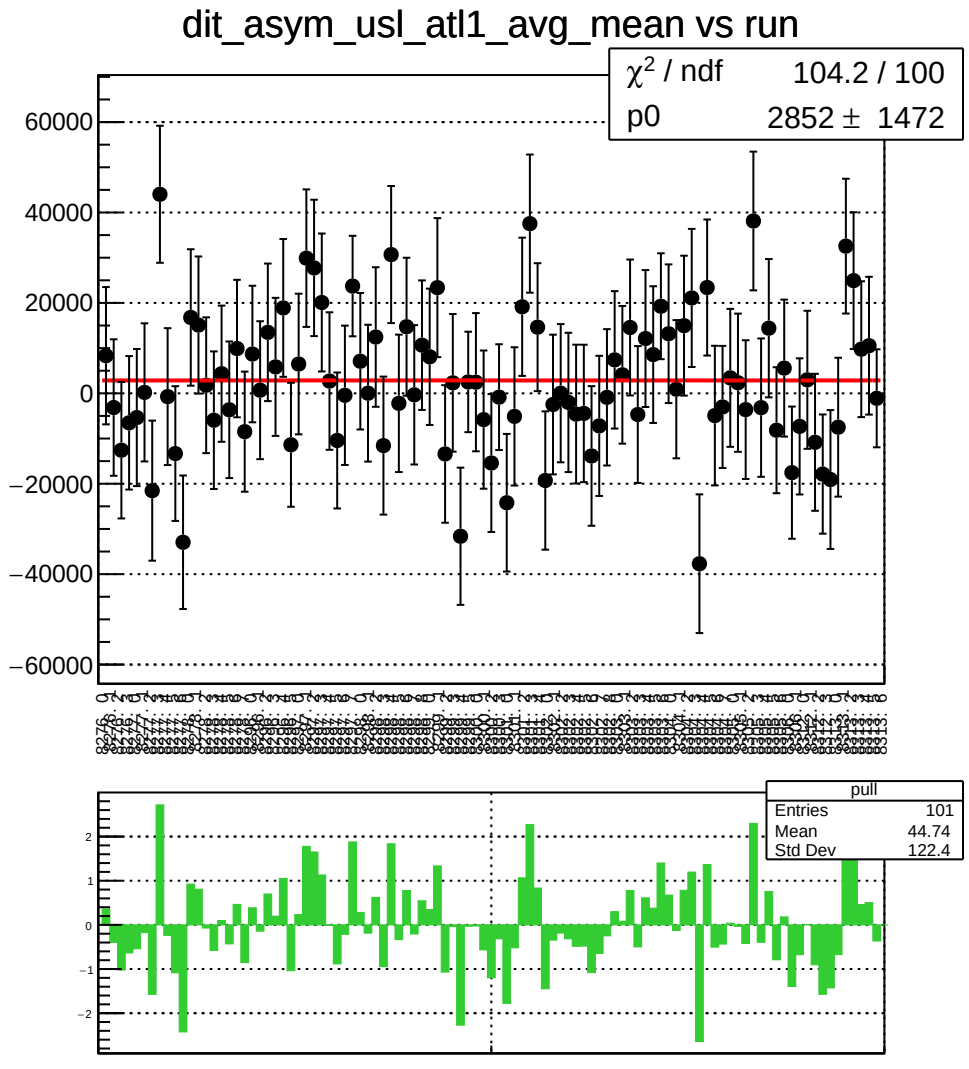
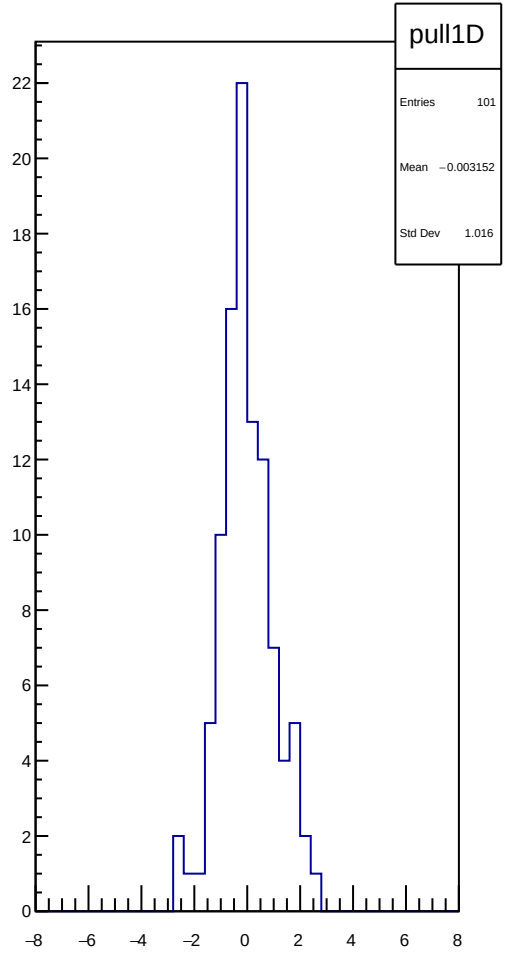
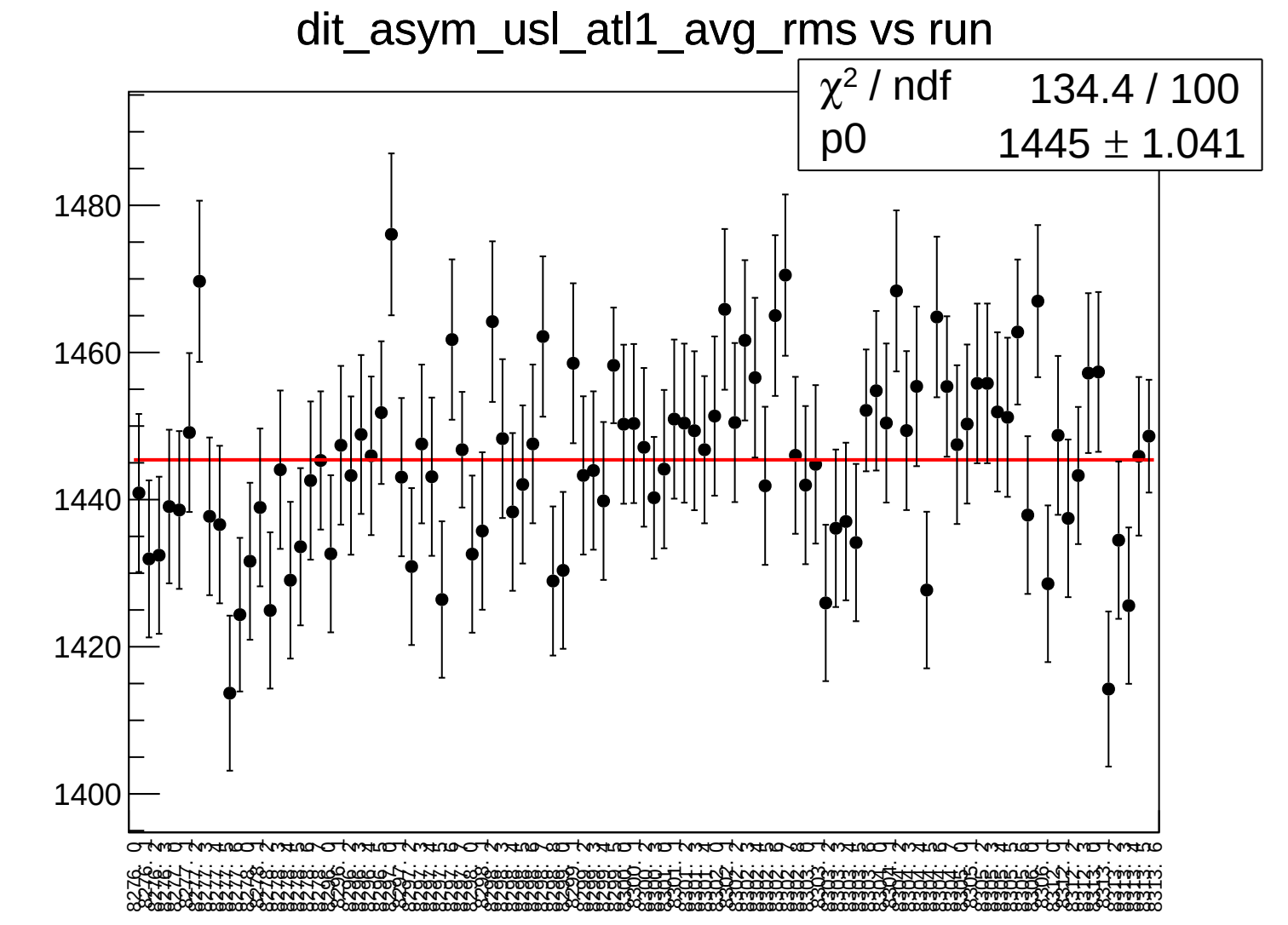
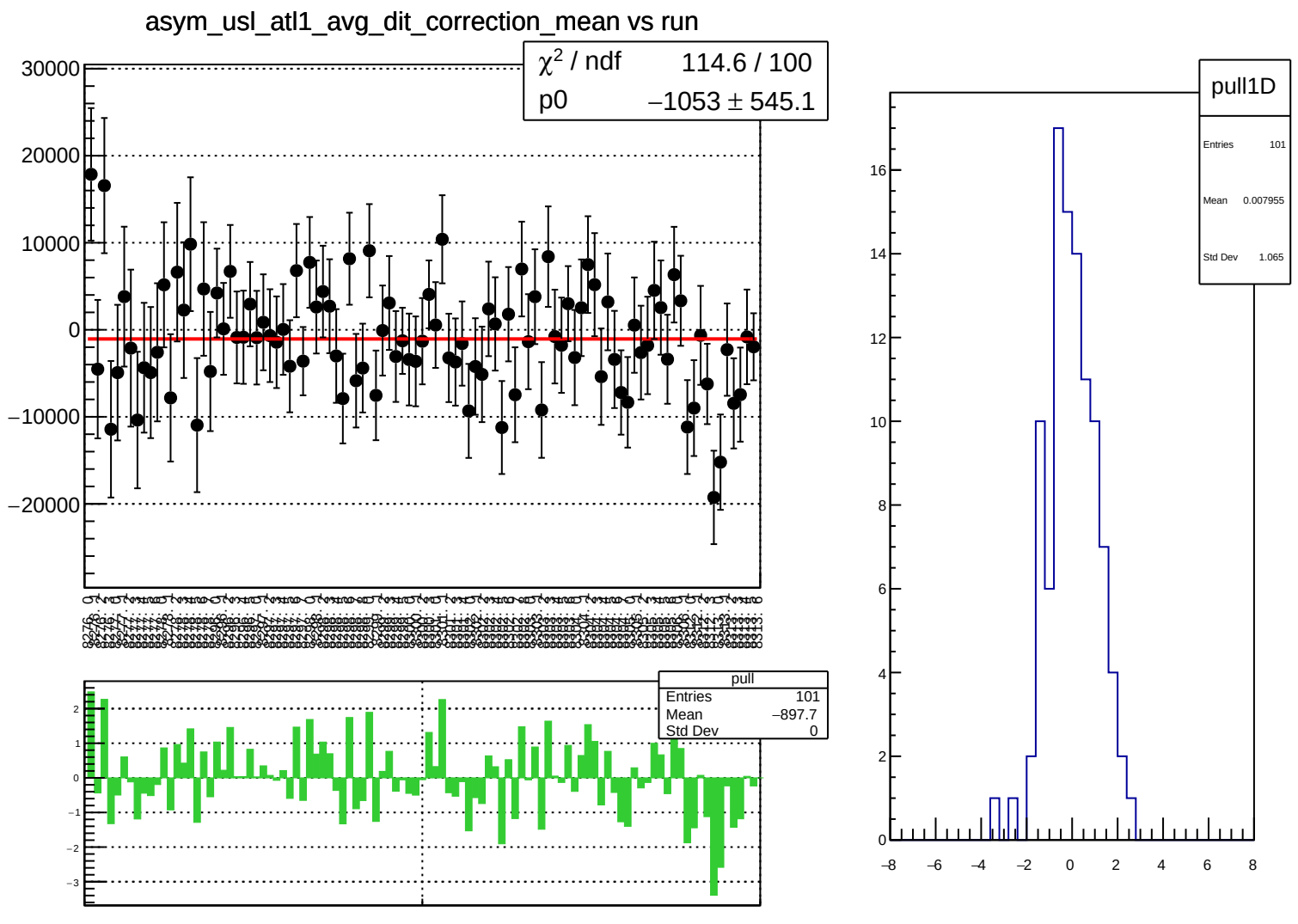
−6
−4
−2
0
2
4
6
8

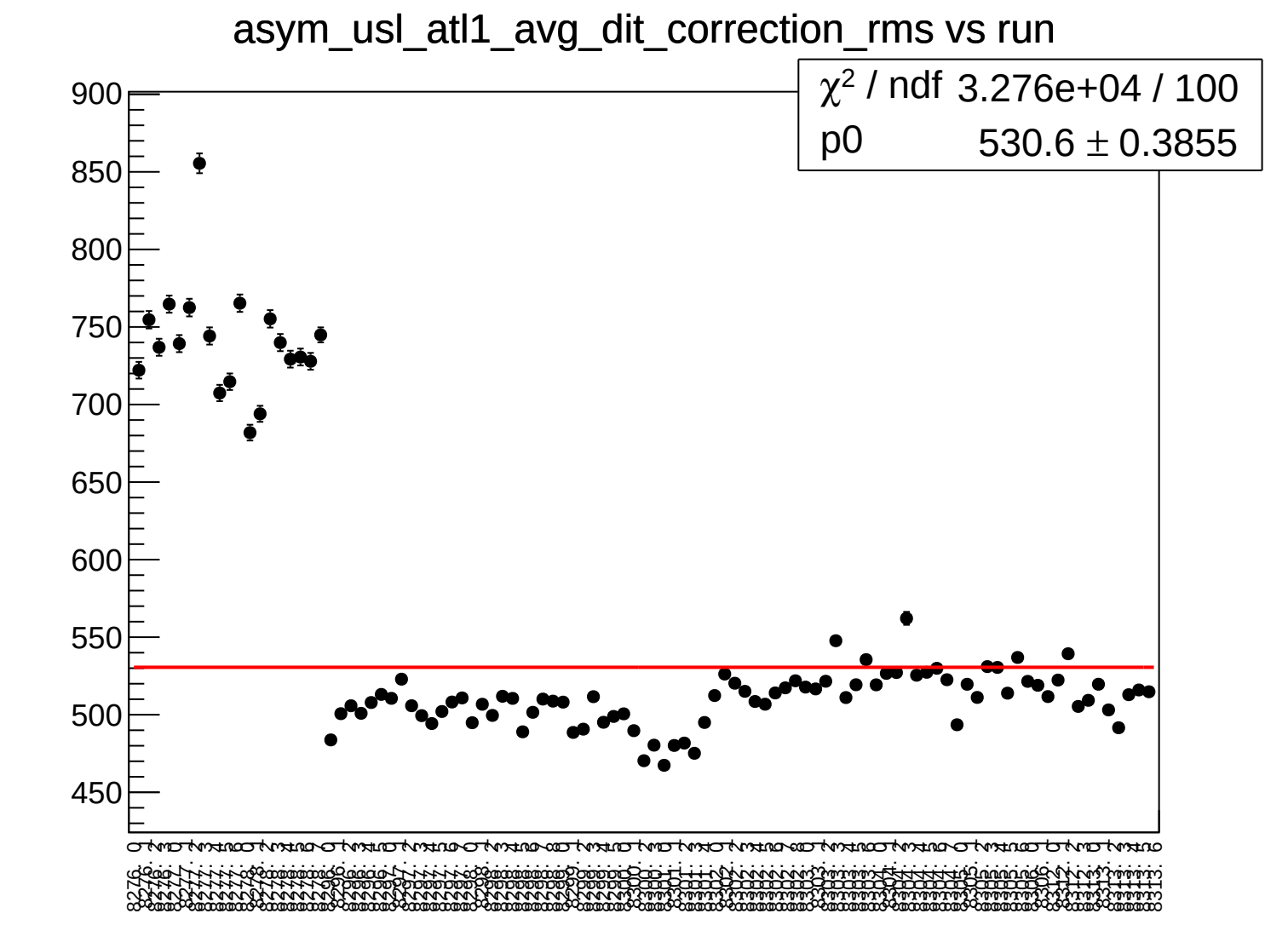

asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.978e+04 / 100
p0 545.2 ± 0.3968
1000
900
800
700
600
500
400

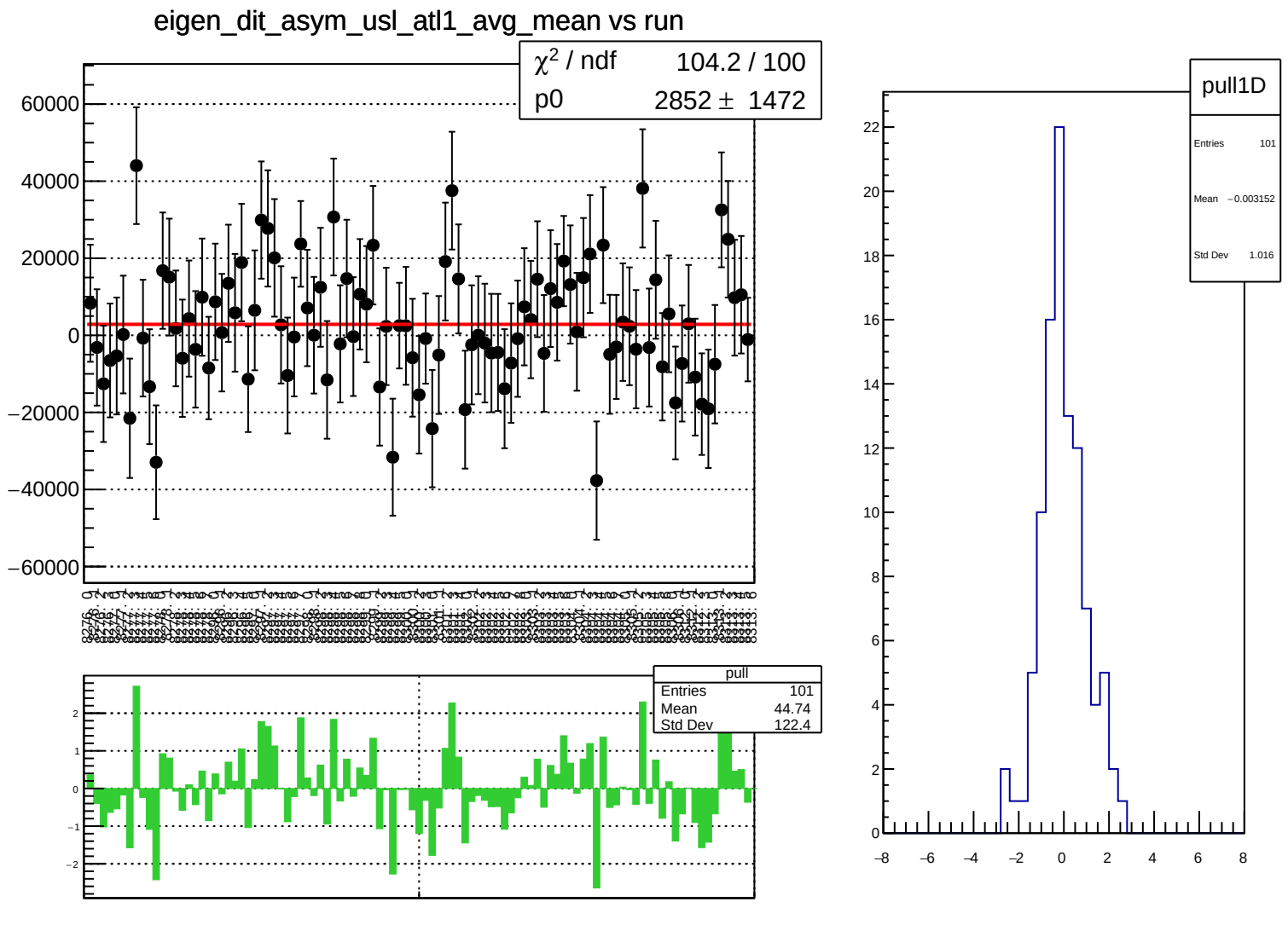

dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 104.2 / 100
p0 2852 ± 1472
pull
Entries 101
Mean 44.74
Std Dev 122.4

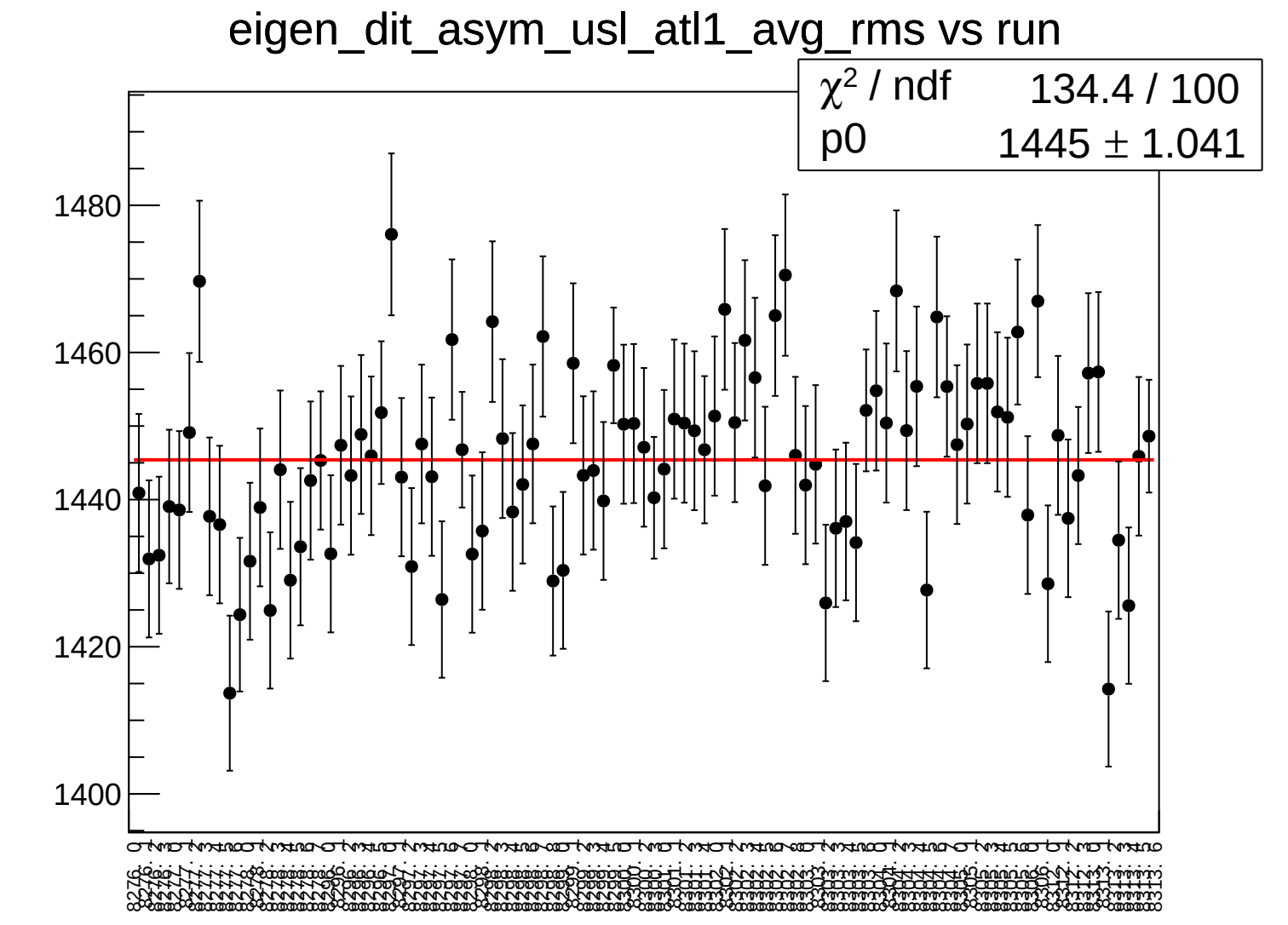

pull1D
Entries 101
Mean −0.003152
Std Dev 1.016

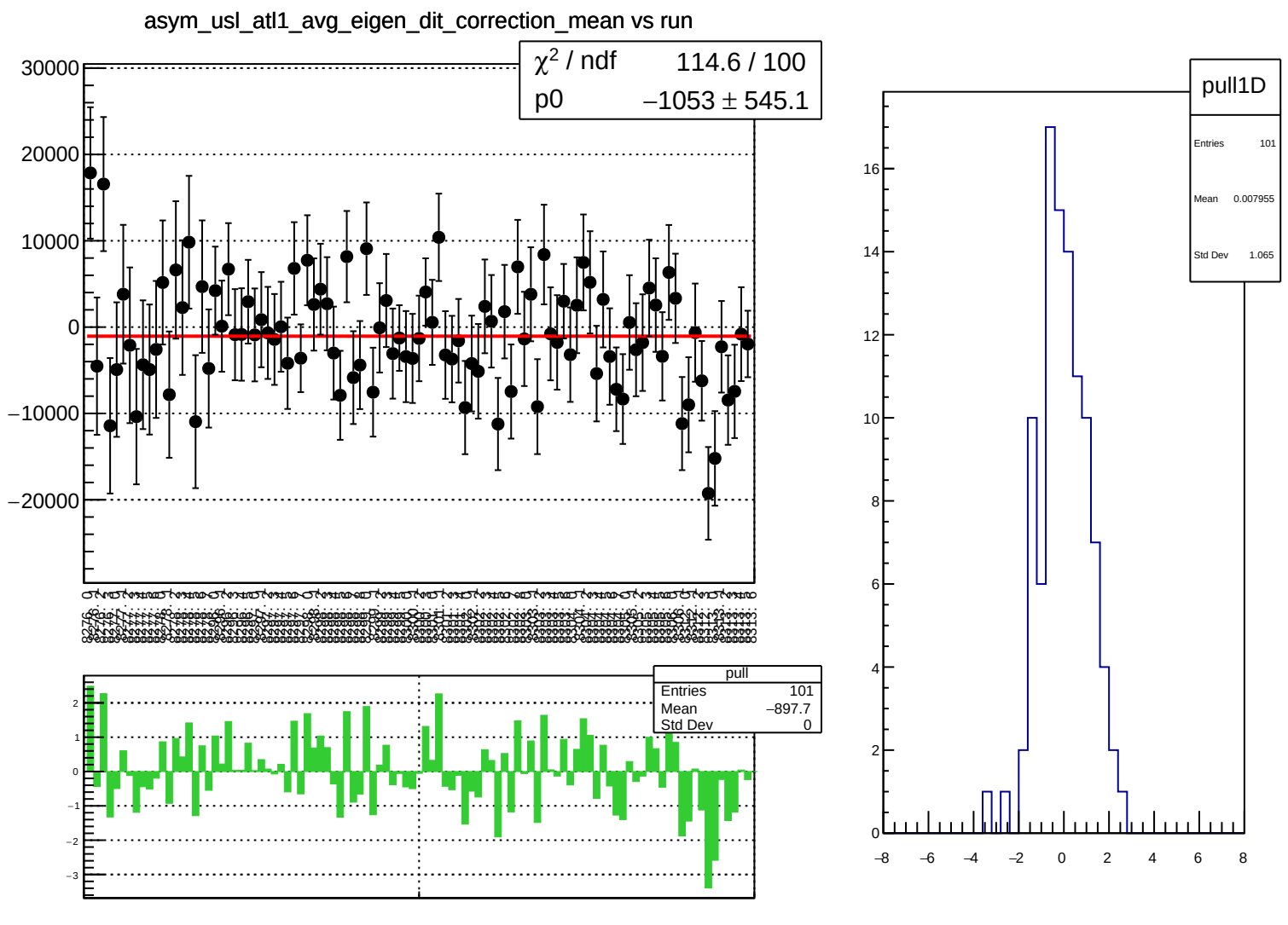

dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 134.4 / 100
p0 1445 ± 1.041
1480
1460
1440
1420
1400

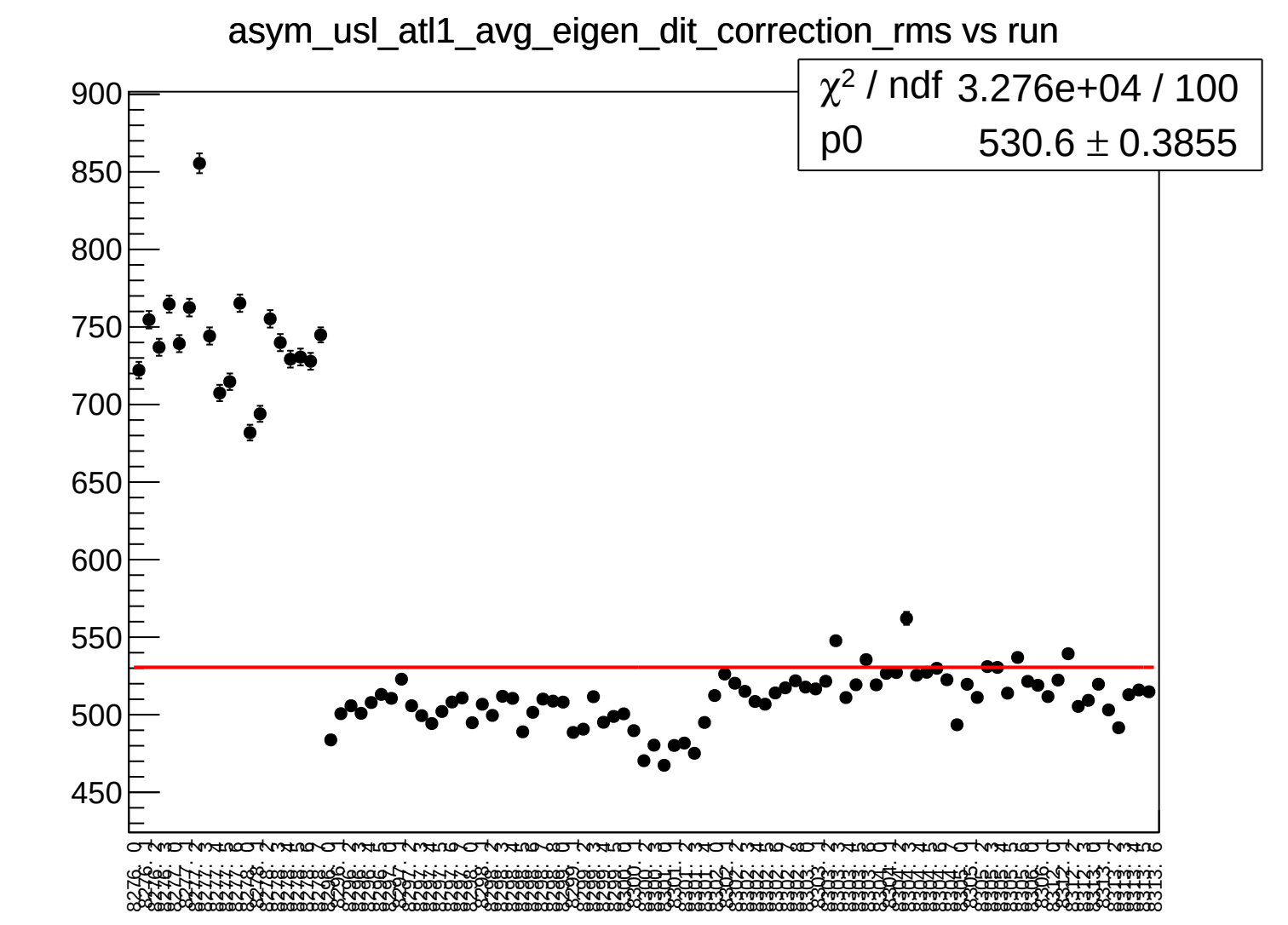

asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 114.6 / 100
p0 −1053 ± 545.1
30000
20000
10000
0
−10000
−20000
pull
Entries 101
Mean −897.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.007955
Std Dev 1.065
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

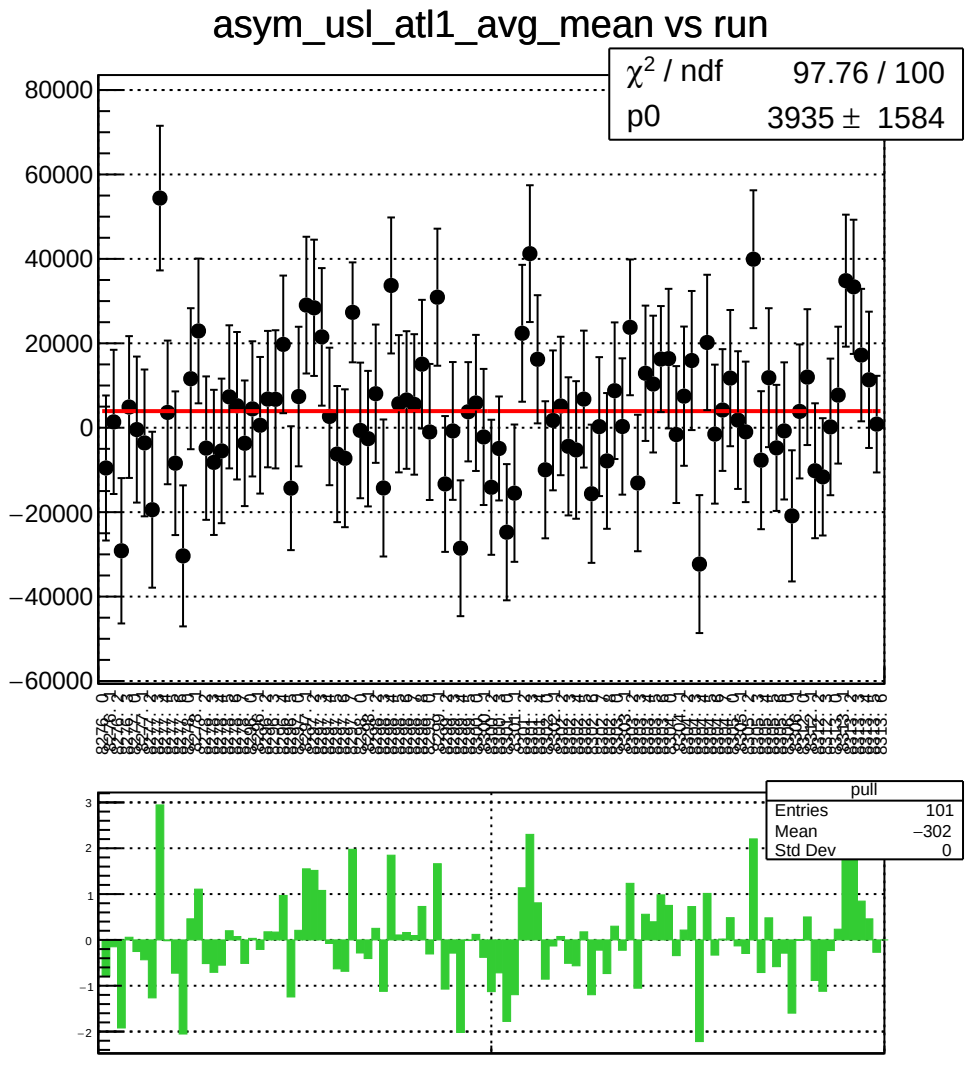

asym_usl_atl1_avg_dit_correction_rms vs run
χ^2 / ndf 3.276e+04 / 100
p0 530.6 ± 0.3855
900
850
800
750
700
650
600
550
500
450

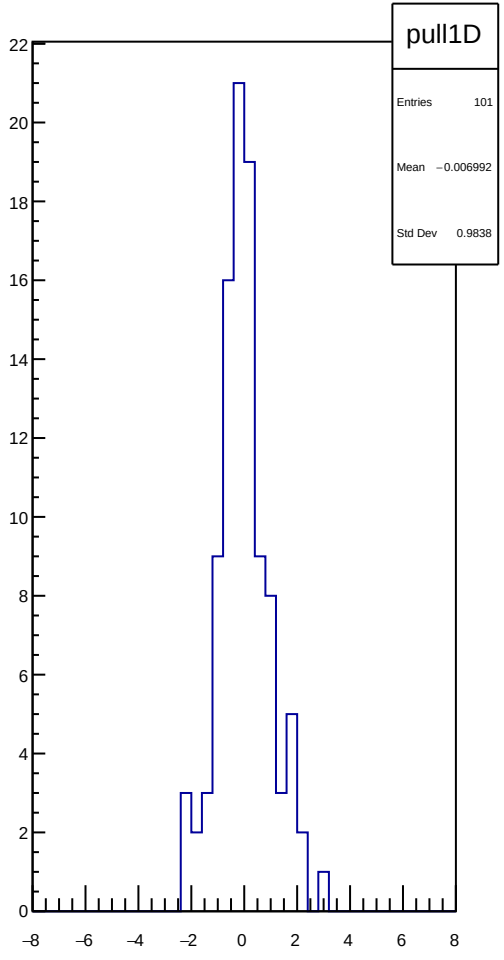

eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 104.2 / 100
p0 2852 ± 1472
pull
Entries 101
Mean 44.74
Std Dev 122.4
pull1D
Entries 101
Mean −0.003152
Std Dev 1.016

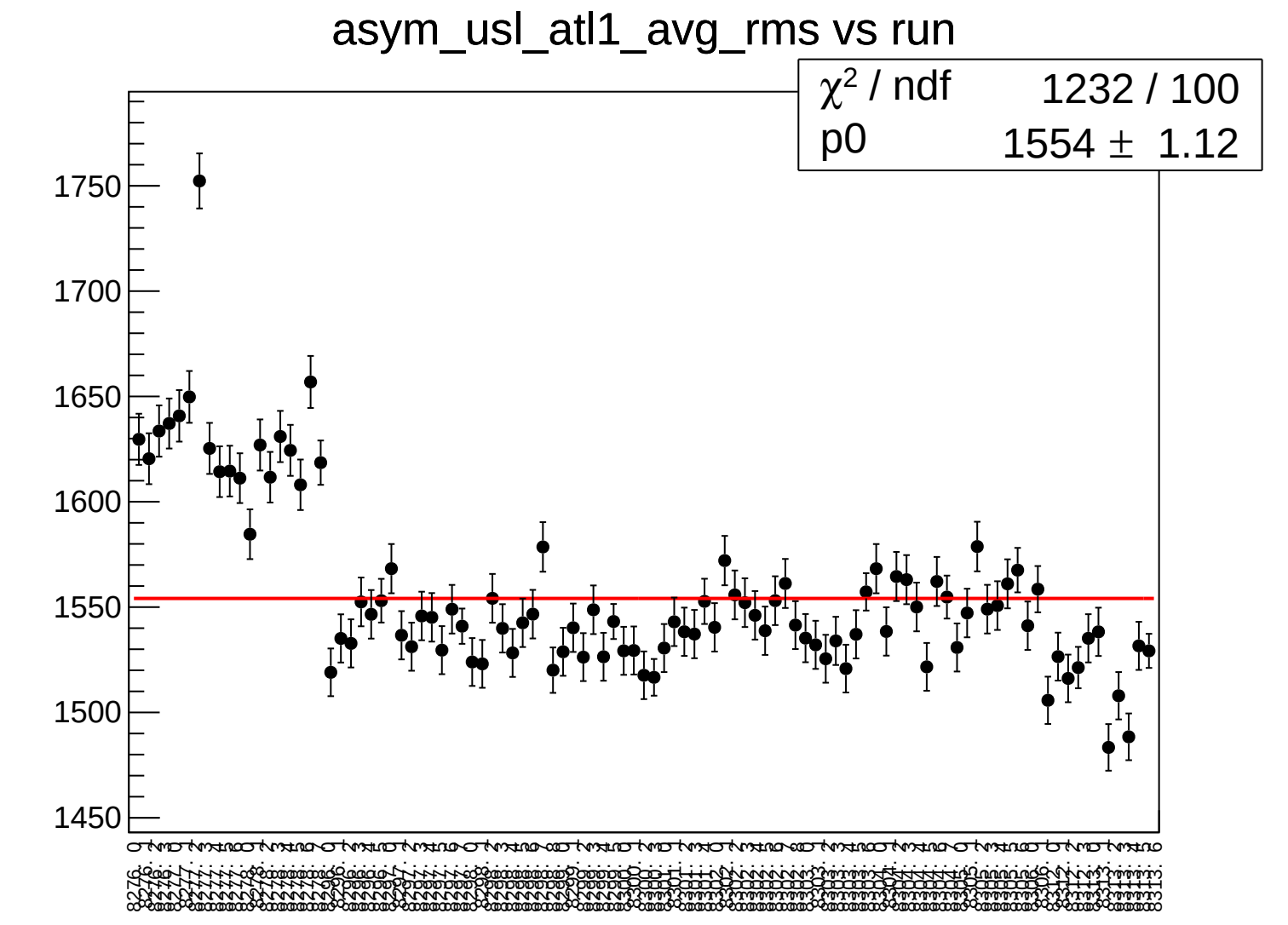

eigen_dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 134.4 / 100
p0 1445 ± 1.041
1480
1460
1440
1420
1400

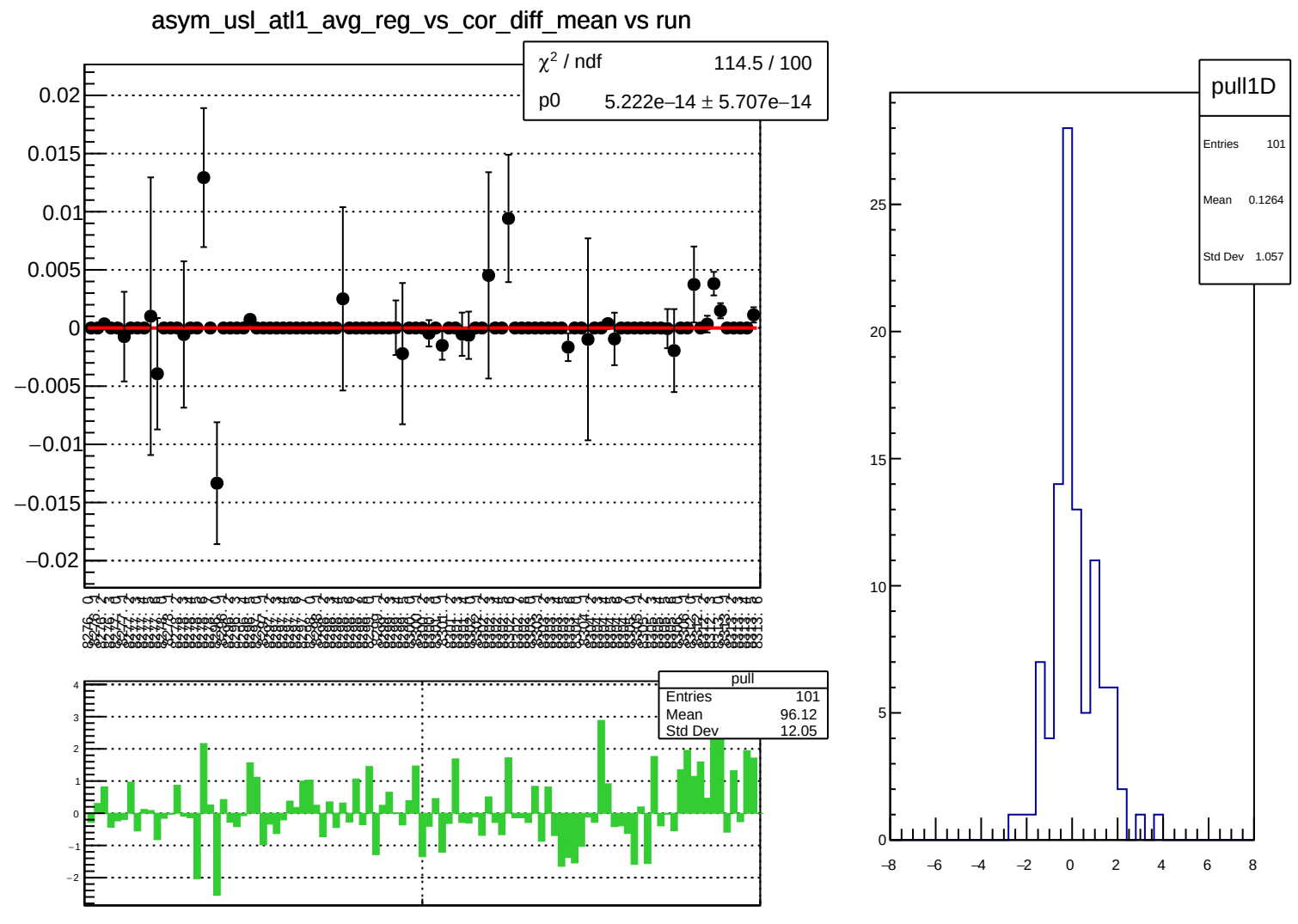

asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 114.6 / 100
p0 −1053 ± 545.1
30000
20000
10000
0
−10000
−20000
pull
Entries 101
Mean −897.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.007955
Std Dev 1.065
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

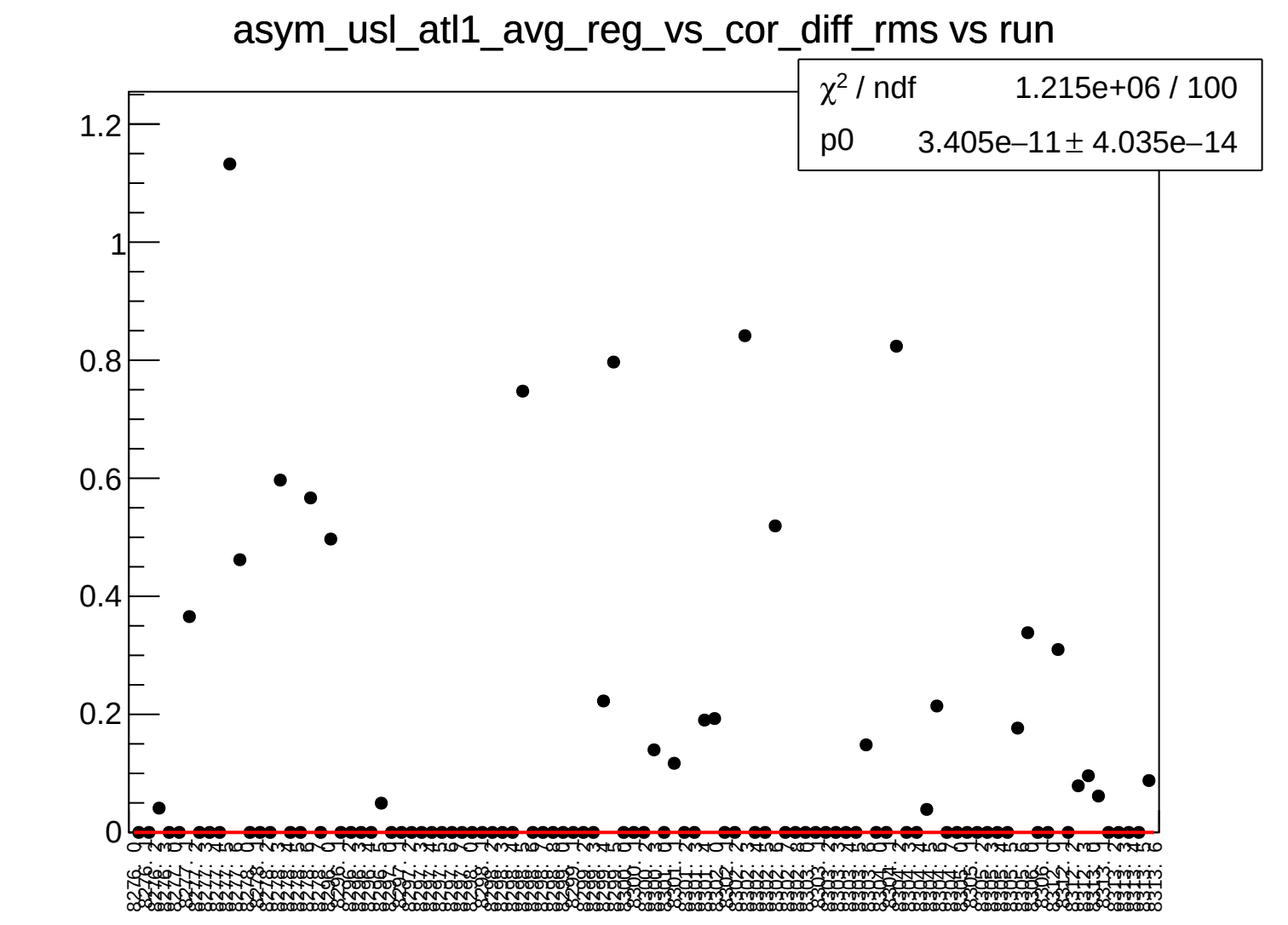

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.276e+04 / 100
p0 530.6 ± 0.3855
900
850
800
750
700
650
600
550
500
450

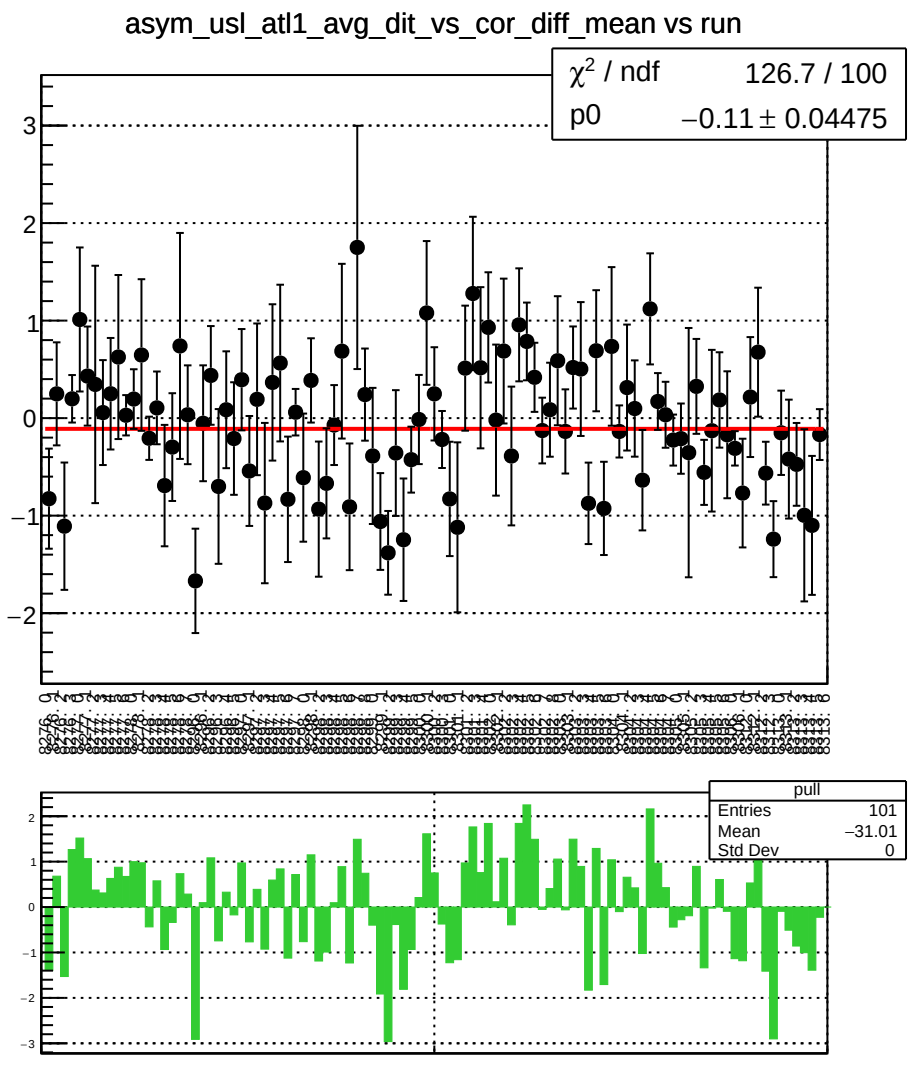

asym_usl_atl1_avg_mean vs run
χ² / ndf 97.76 / 100
p0 3935 ± 1584
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −302
Std Dev 0
3
2
1
0
−1
−2

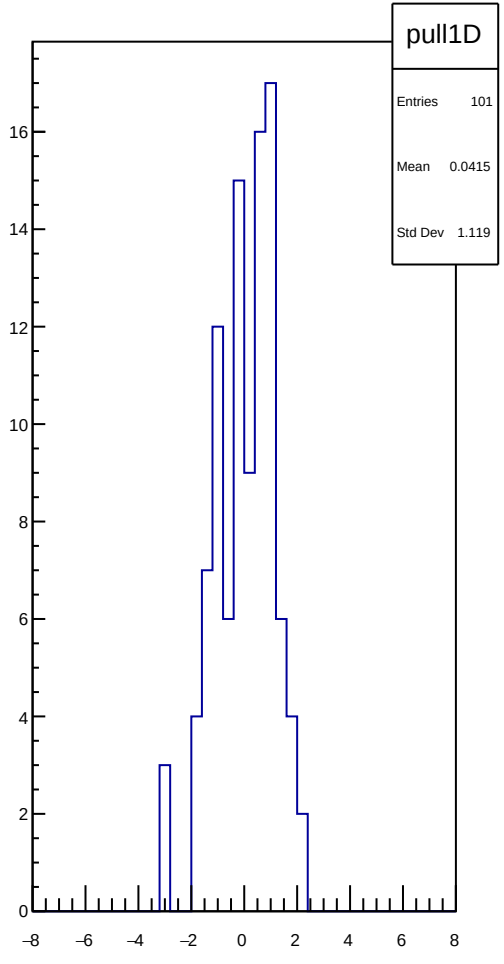

pull1D
Entries 101
Mean −0.006992
Std Dev 0.9838
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

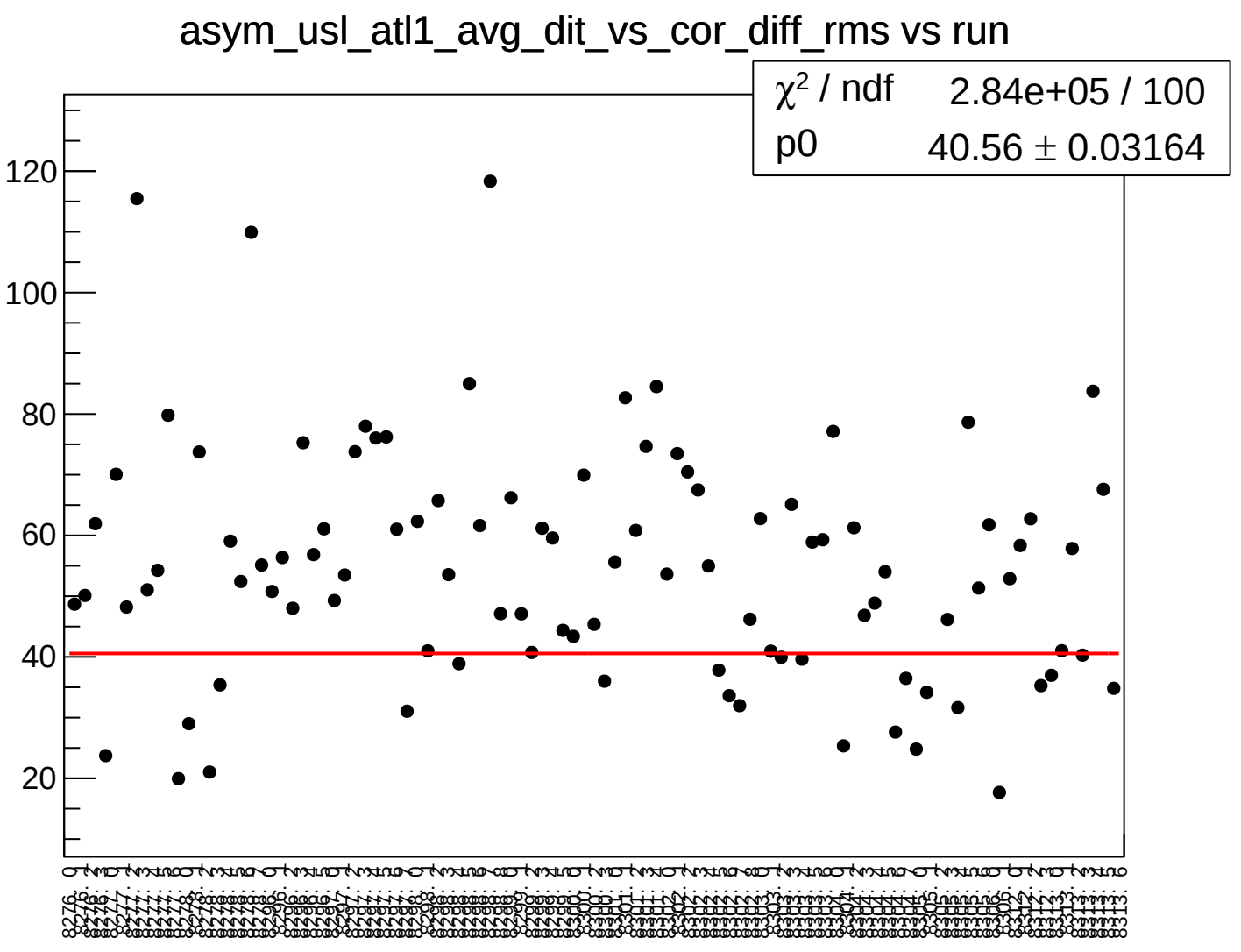

asym_usl_atl1_avg_rms vs run
χ² / ndf 1232 / 100
p0 1554 ± 1.12
1750
1700
1650
1600
1550
1500
1450

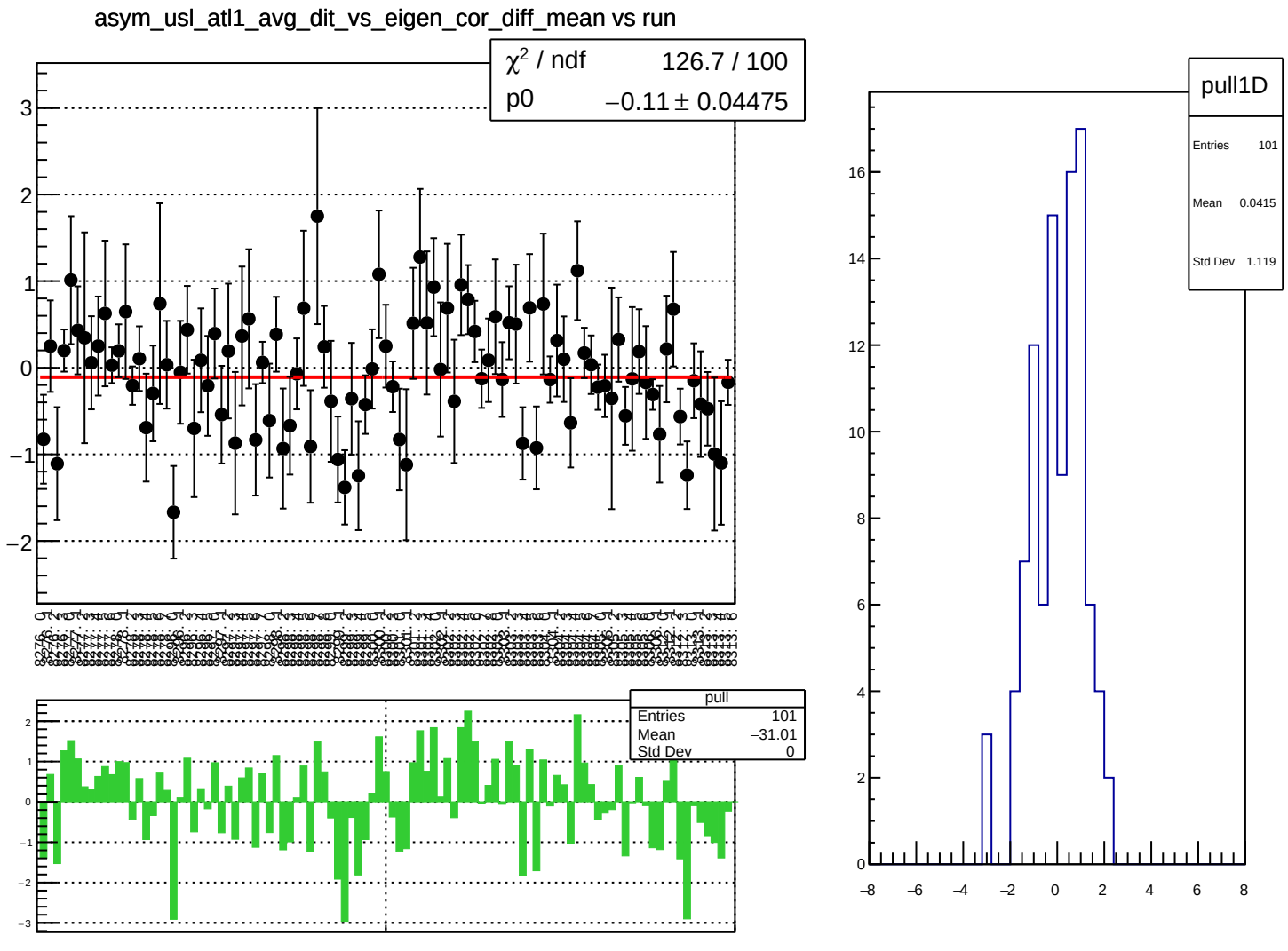

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 114.5 / 100
p0 5.222e−14 ± 5.707e−14
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 101
Mean 96.12
Std Dev 12.05
4
3
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.1264
Std Dev 1.057
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

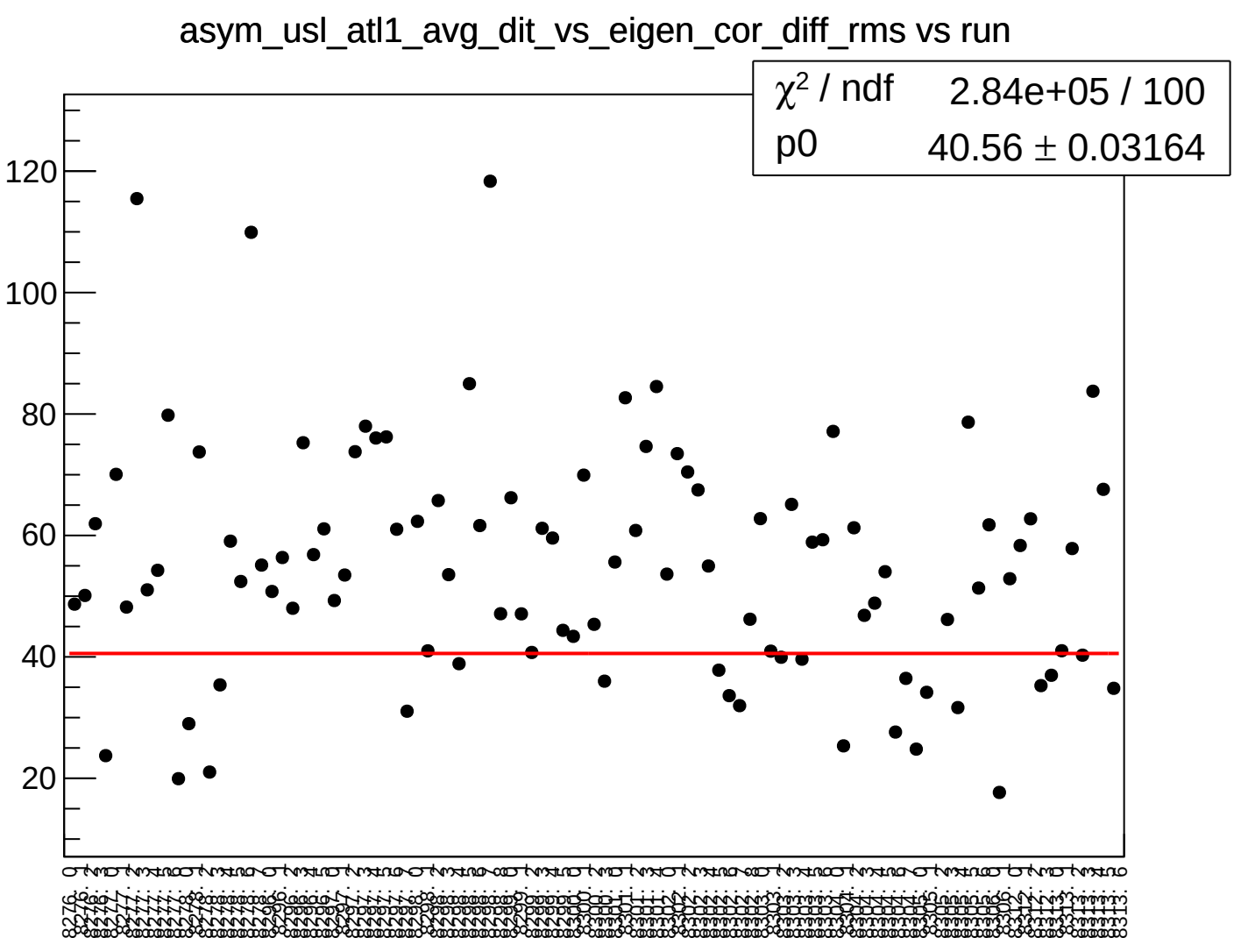

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.215e+06 / 100
p0 3.405e−11 ± 4.035e−14
1.2
1
0.8
0.6
0.4
0.2
0

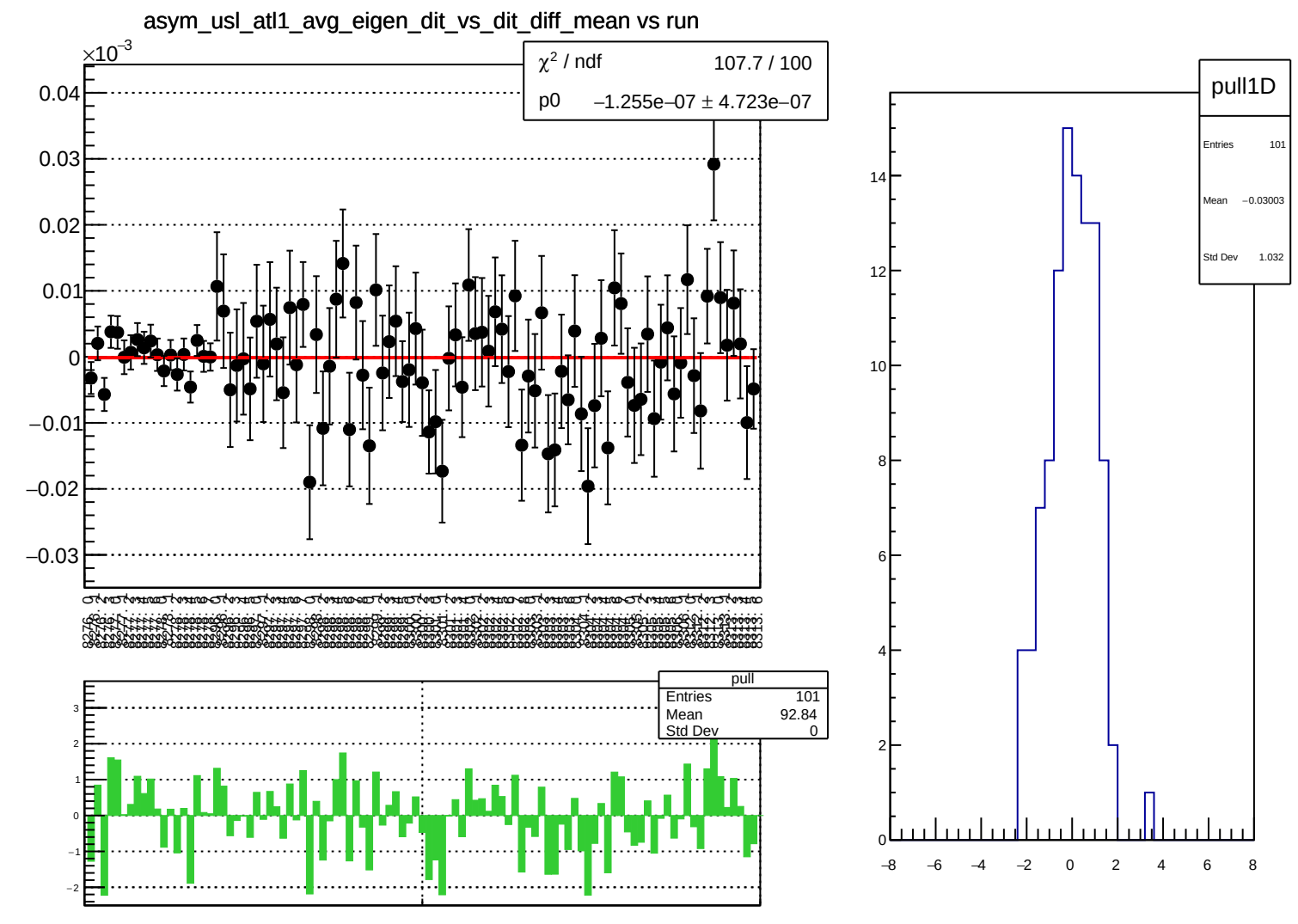

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 126.7 / 100
p0 −0.11 ± 0.04475
pull
Entries 101
Mean −31.01
Std Dev 0

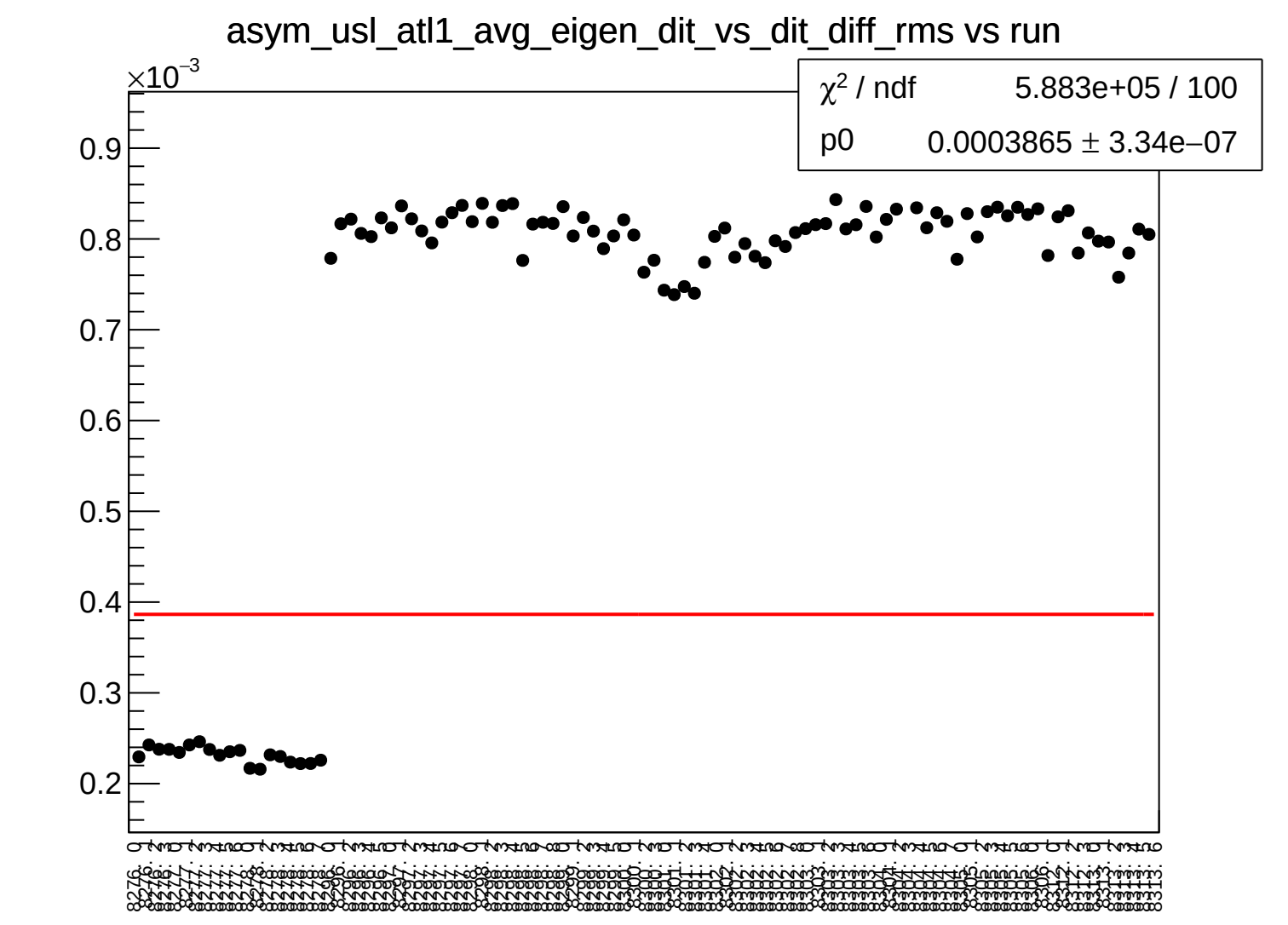

pull1D
Entries 101
Mean 0.0415
Std Dev 1.119

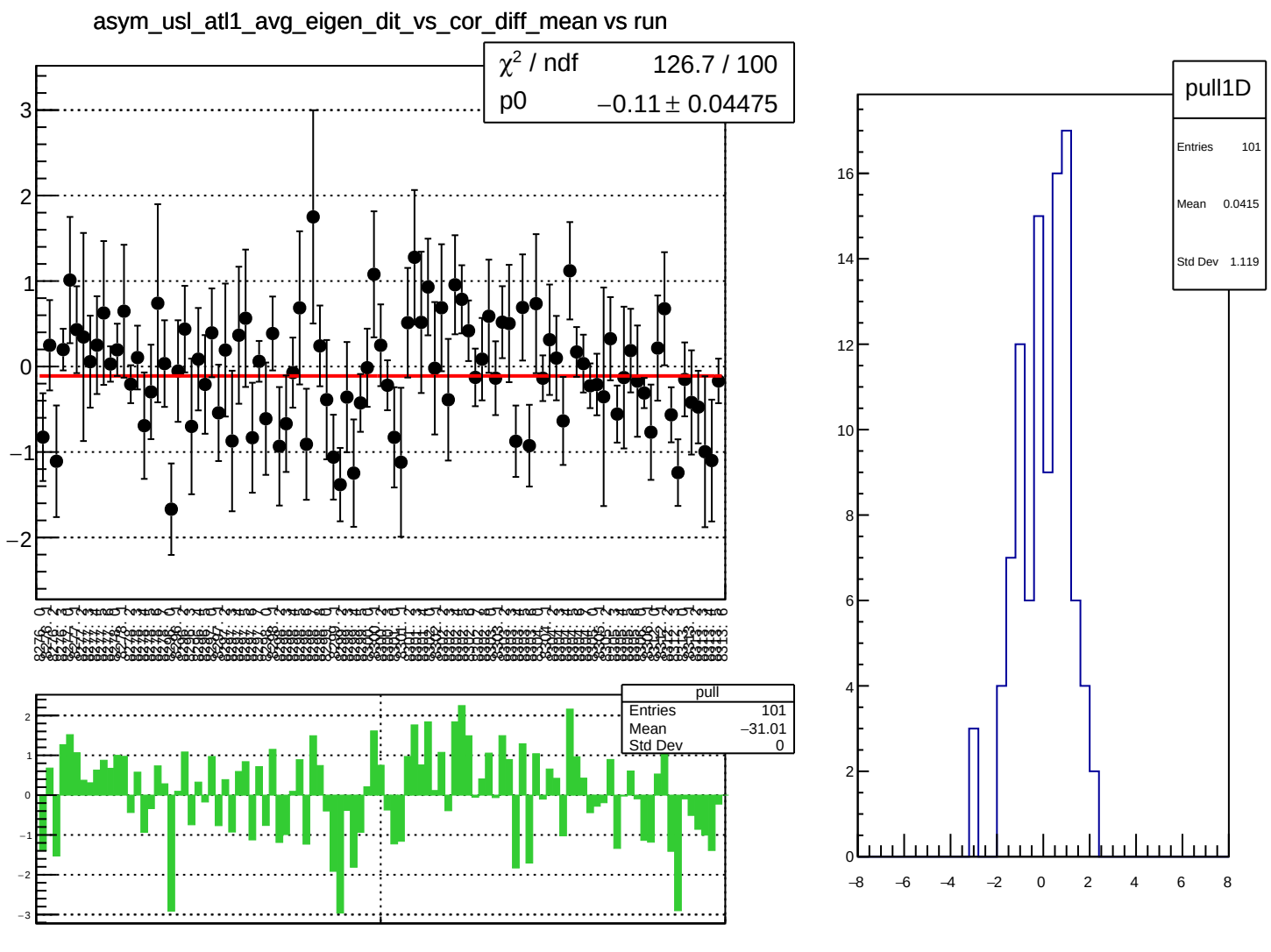

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.84e+05 / 100
p0 40.56 ± 0.03164
120
100
80
60
40
20

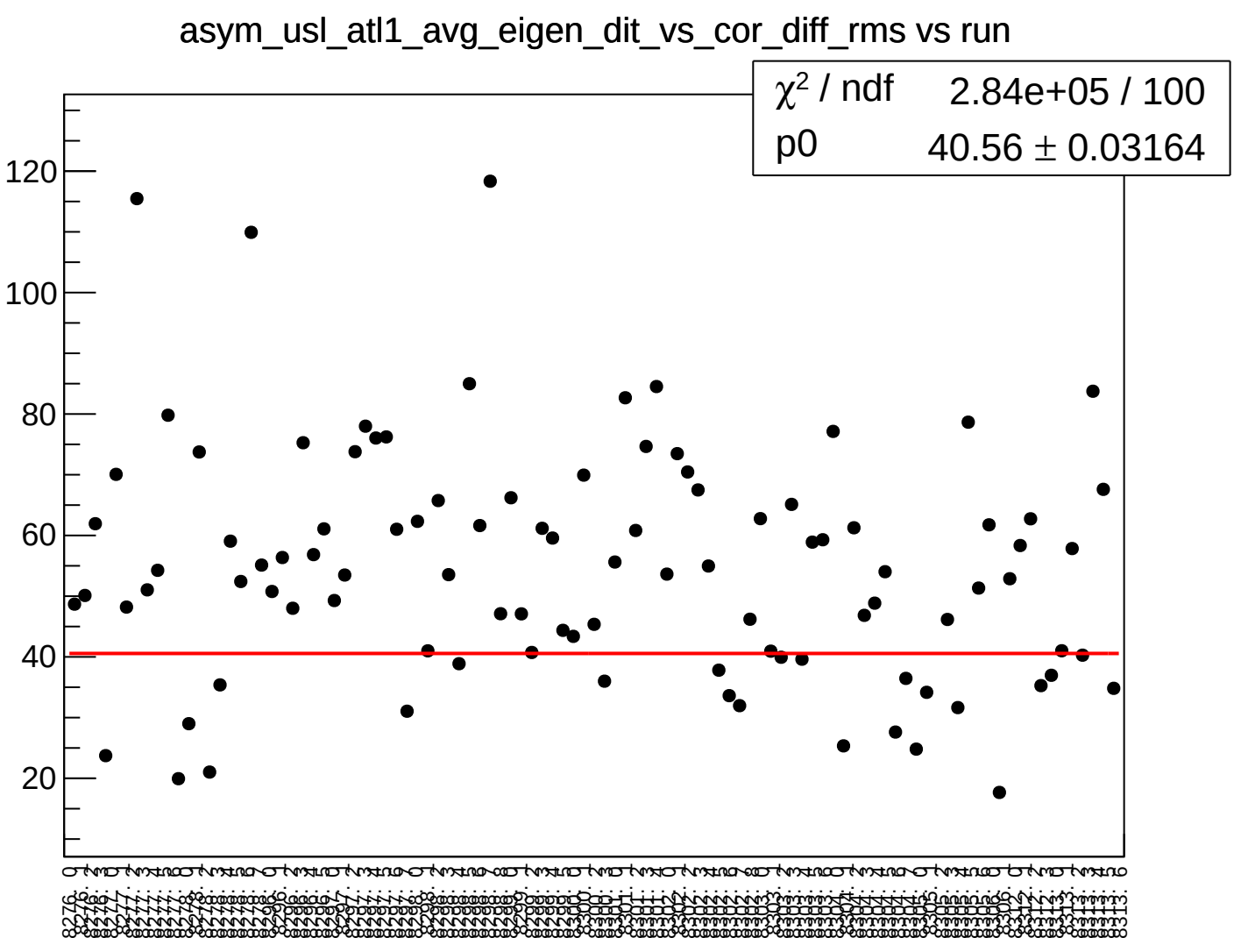

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 126.7 / 100
p0 −0.11 ± 0.04475
pull
Entries 101
Mean −31.01
Std Dev 0
pull1D
Entries 101
Mean 0.0415
Std Dev 1.119

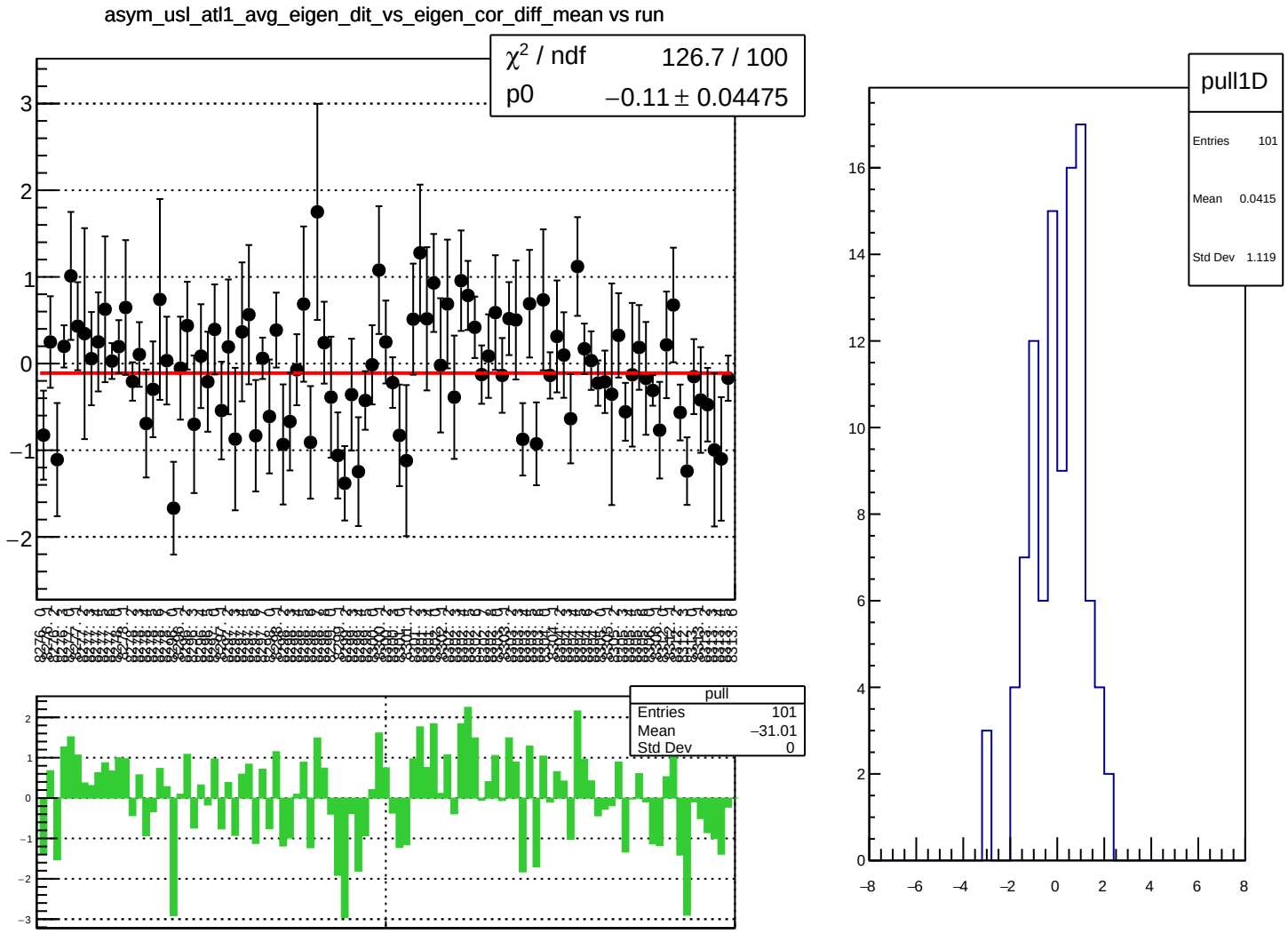

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.84e+05 / 100
p0 40.56 ± 0.03164
120
100
80
60
40
20

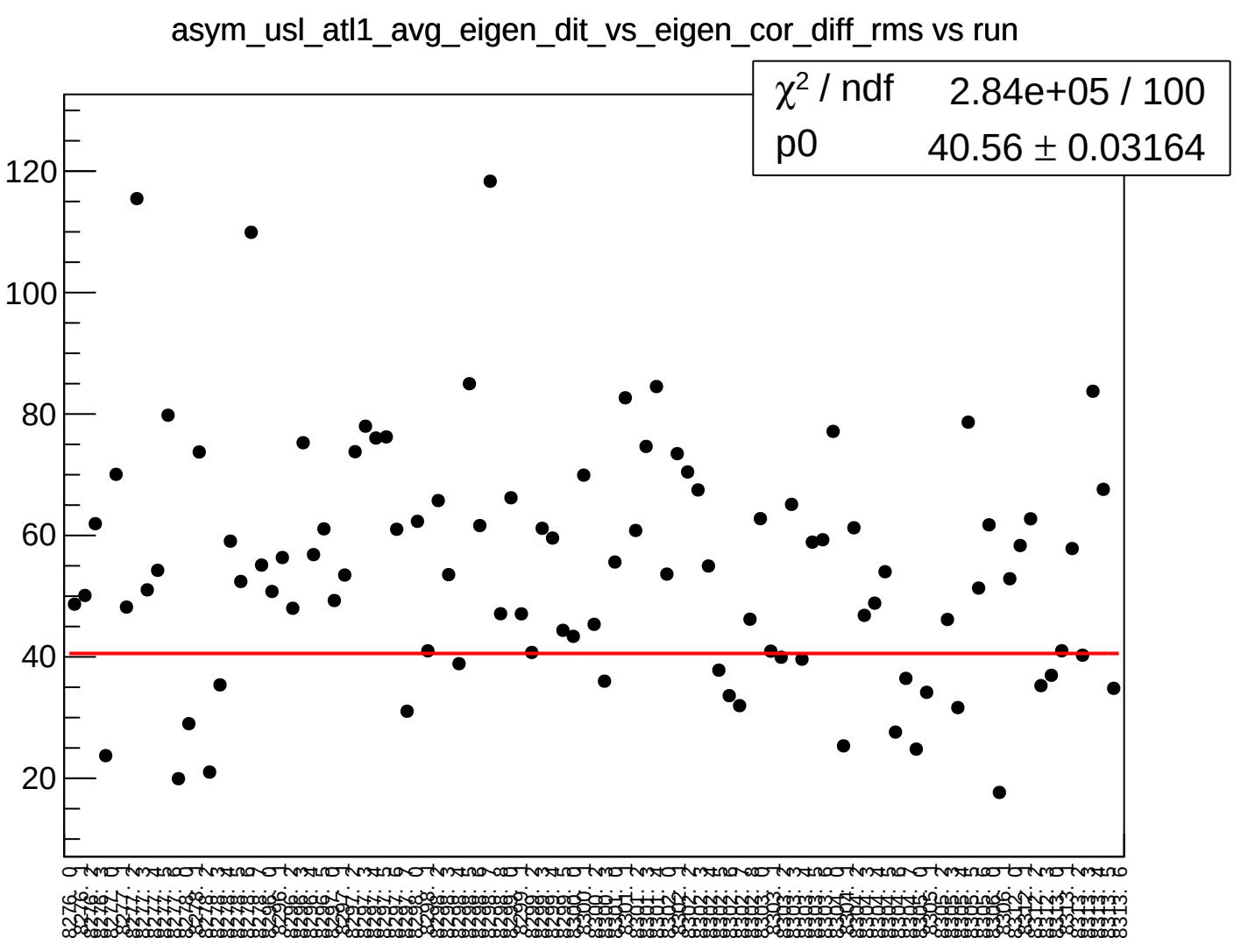

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 107.7 / 100
p0 −1.255e−07 ± 4.723e−07
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 101
Mean 92.84
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.03003
Std Dev 1.032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

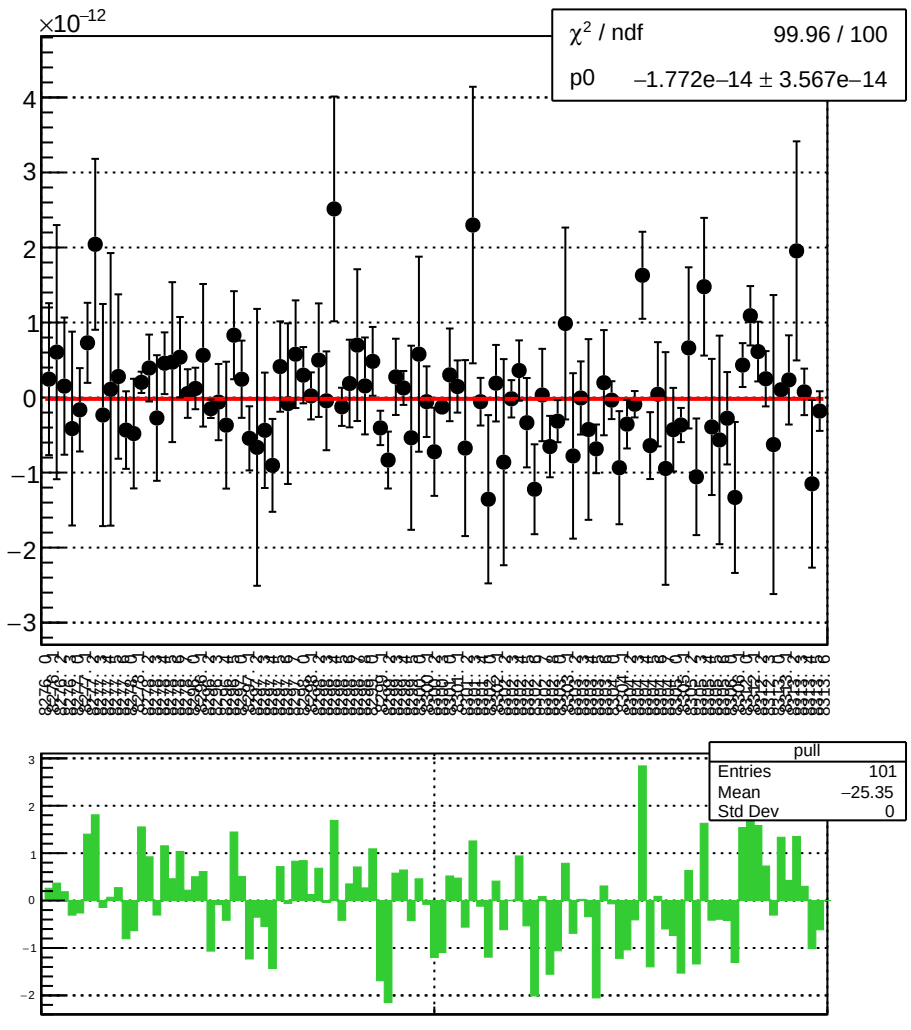

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 5.883e+05 / 100
p0 0.0003865 ± 3.34e−07
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2

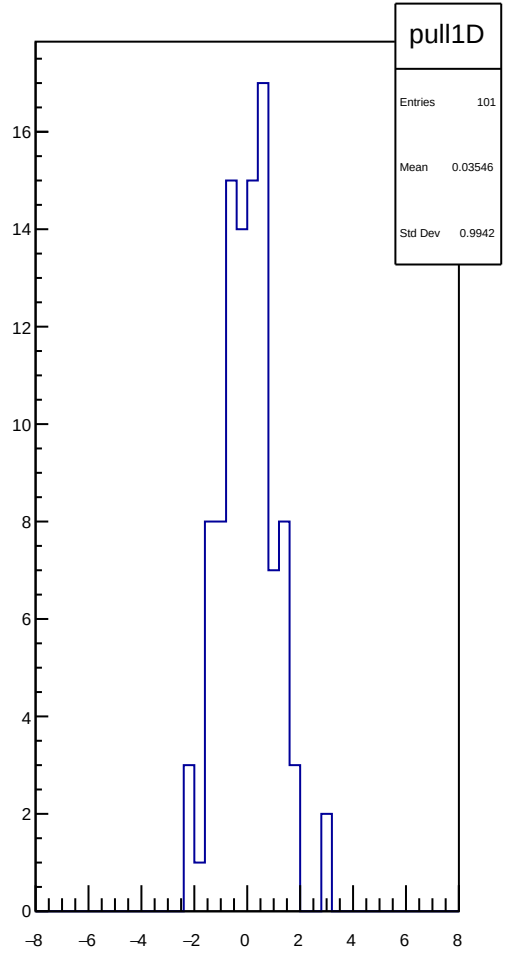

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 126.7 / 100
p0 −0.11 ± 0.04475
pull
Entries 101
Mean −31.01
Std Dev 0
pull1D
Entries 101
Mean 0.0415
Std Dev 1.119

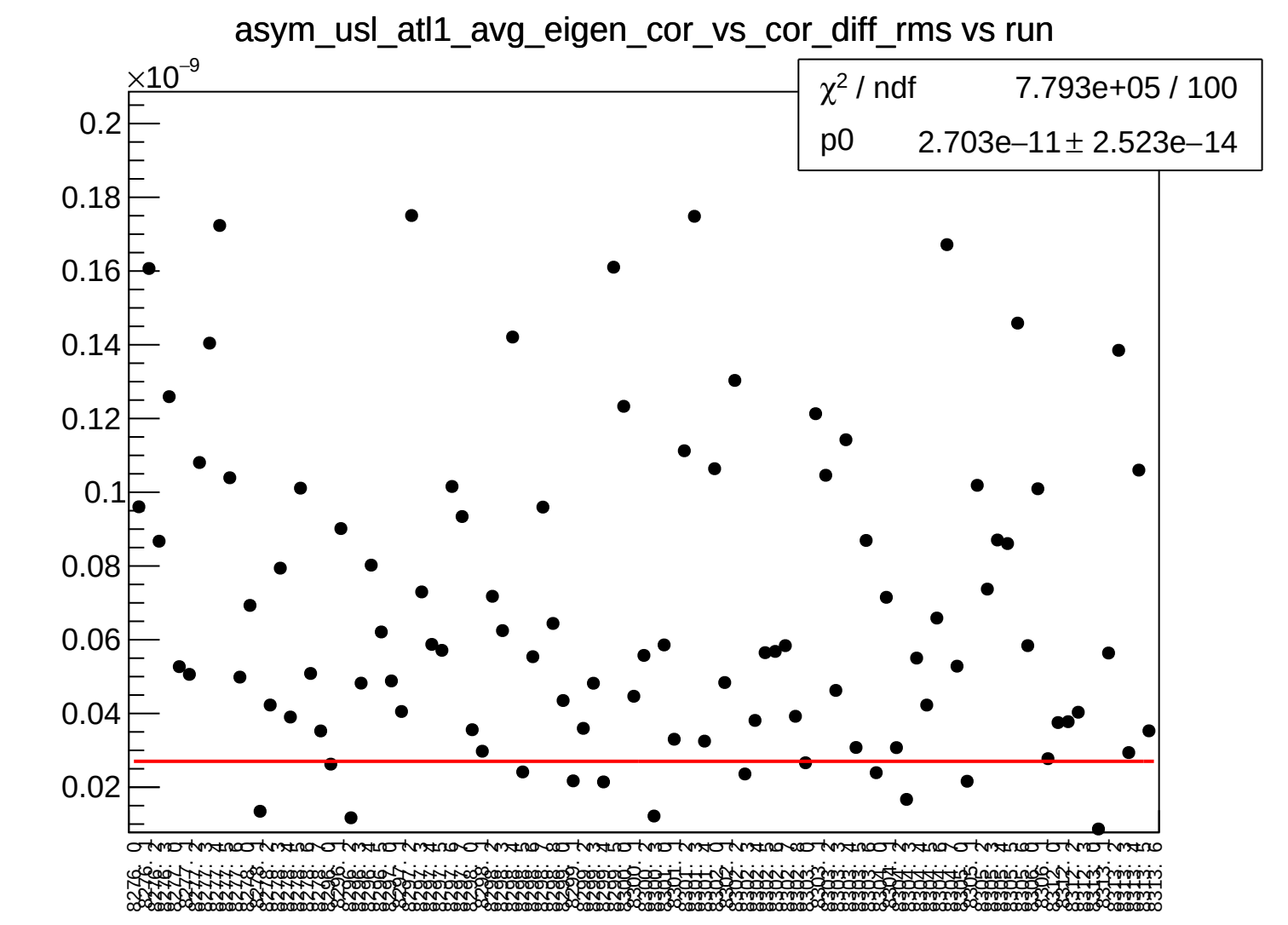

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.84e+05 / 100
p0 40.56 ± 0.03164
120
100
80
60
40
20

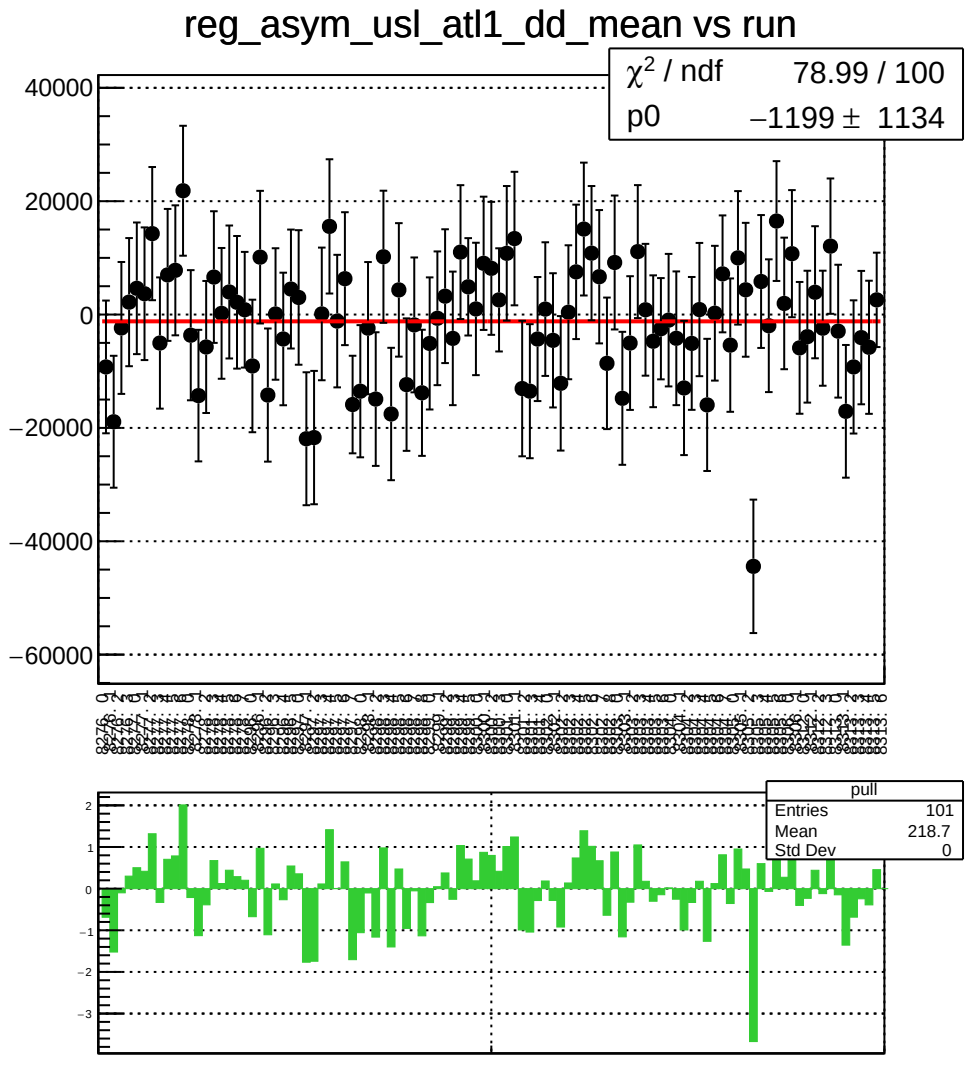

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 126.7 / 100
p0 −0.11 ± 0.04475
pull
Entries 101
Mean −31.01
Std Dev 0
pull1D
Entries 101
Mean 0.0415
Std Dev 1.119

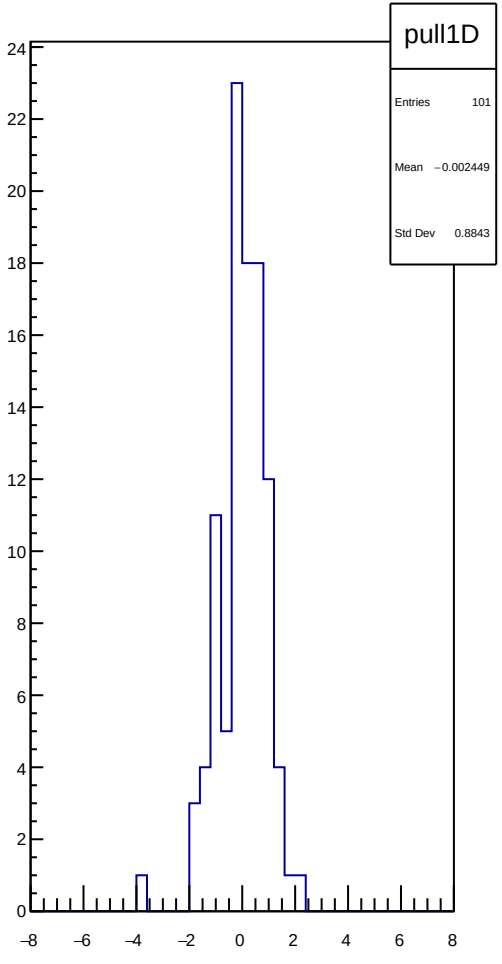

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.84e+05 / 100
p0 40.56 ± 0.03164
120
100
80
60
40
20

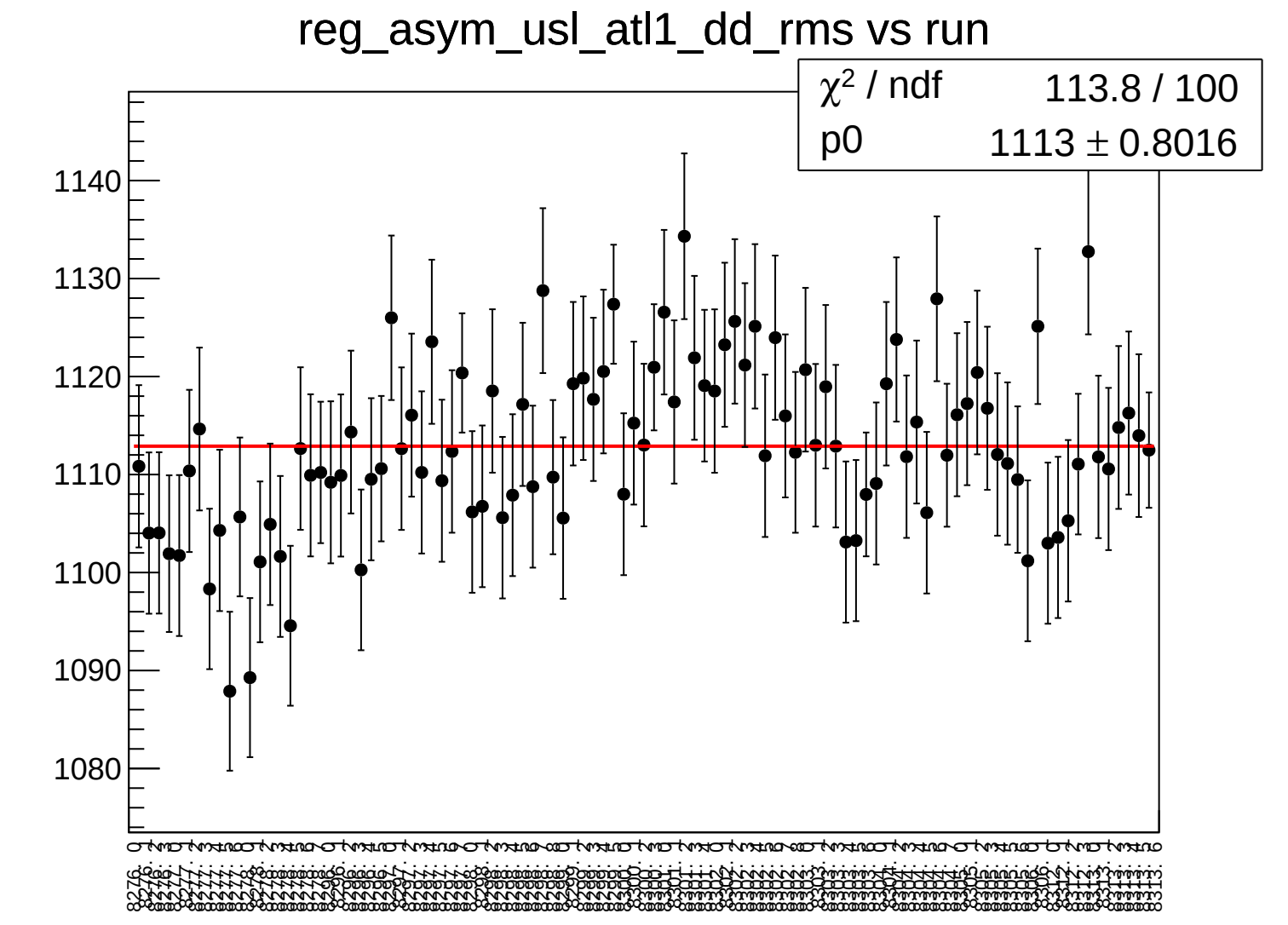

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.96 / 100
p0 −1.772e−14 ± 3.567e−14
pull
Entries 101
Mean −25.35
Std Dev 0

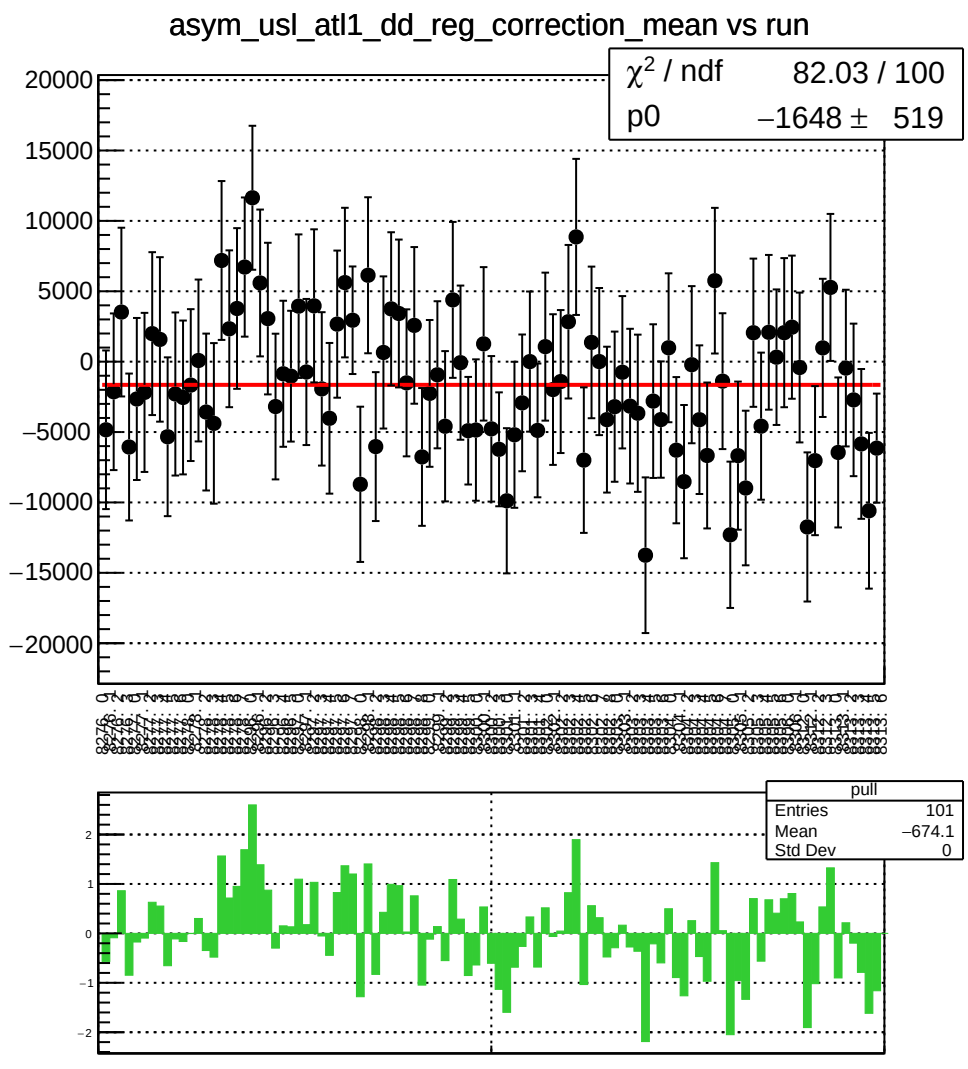

pull1D
Entries 101
Mean 0.03546
Std Dev 0.9942

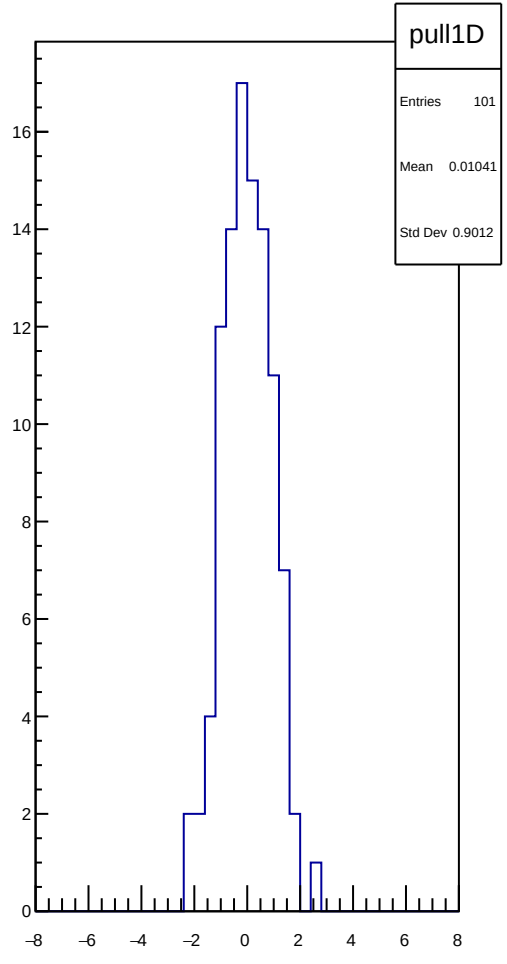

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.793e+05 / 100
p0 2.703e−11 ± 2.523e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

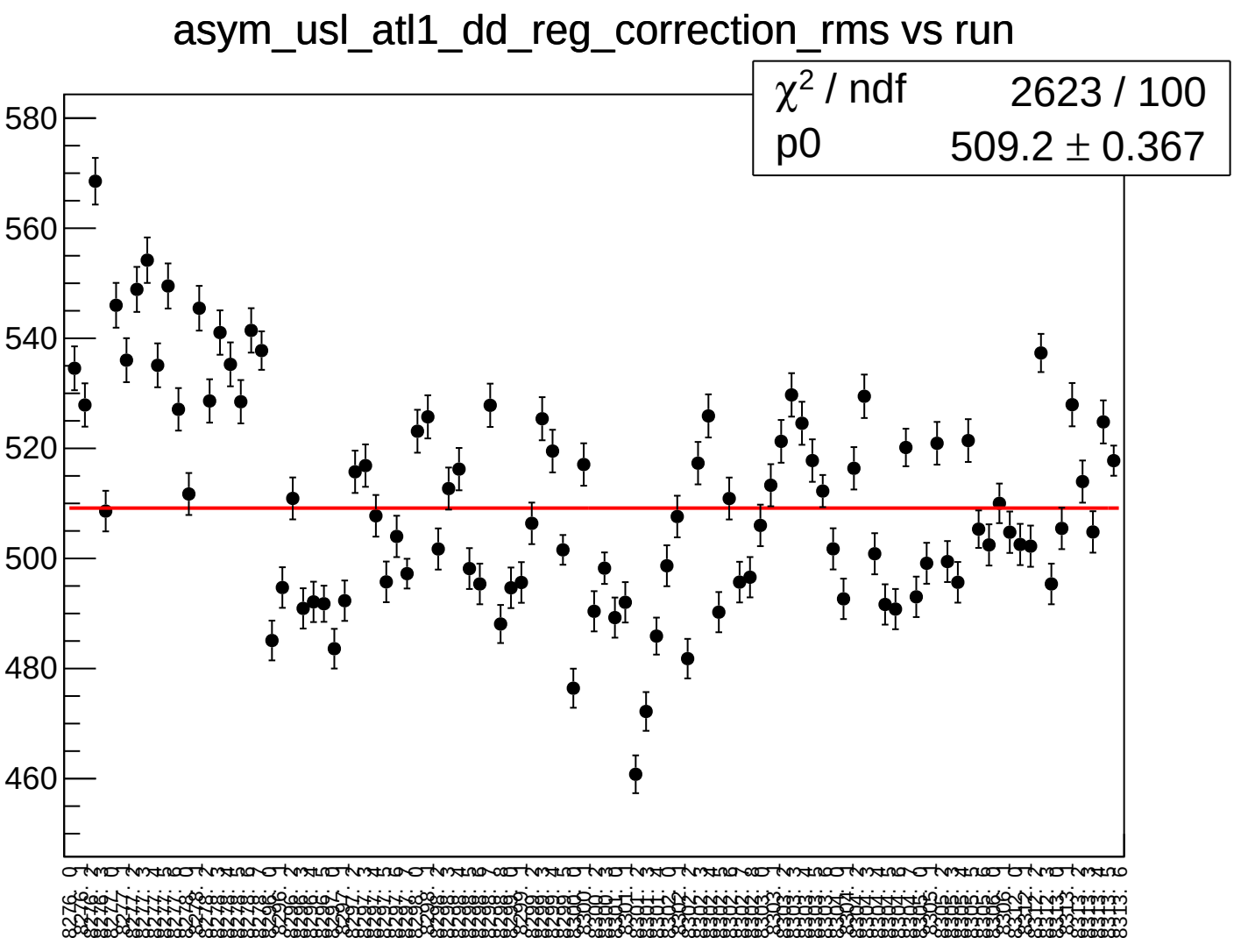

reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 78.99 / 100
p0 −1199 ± 1134
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean 218.7
Std Dev 0
2
1
0
−1
−2
−3

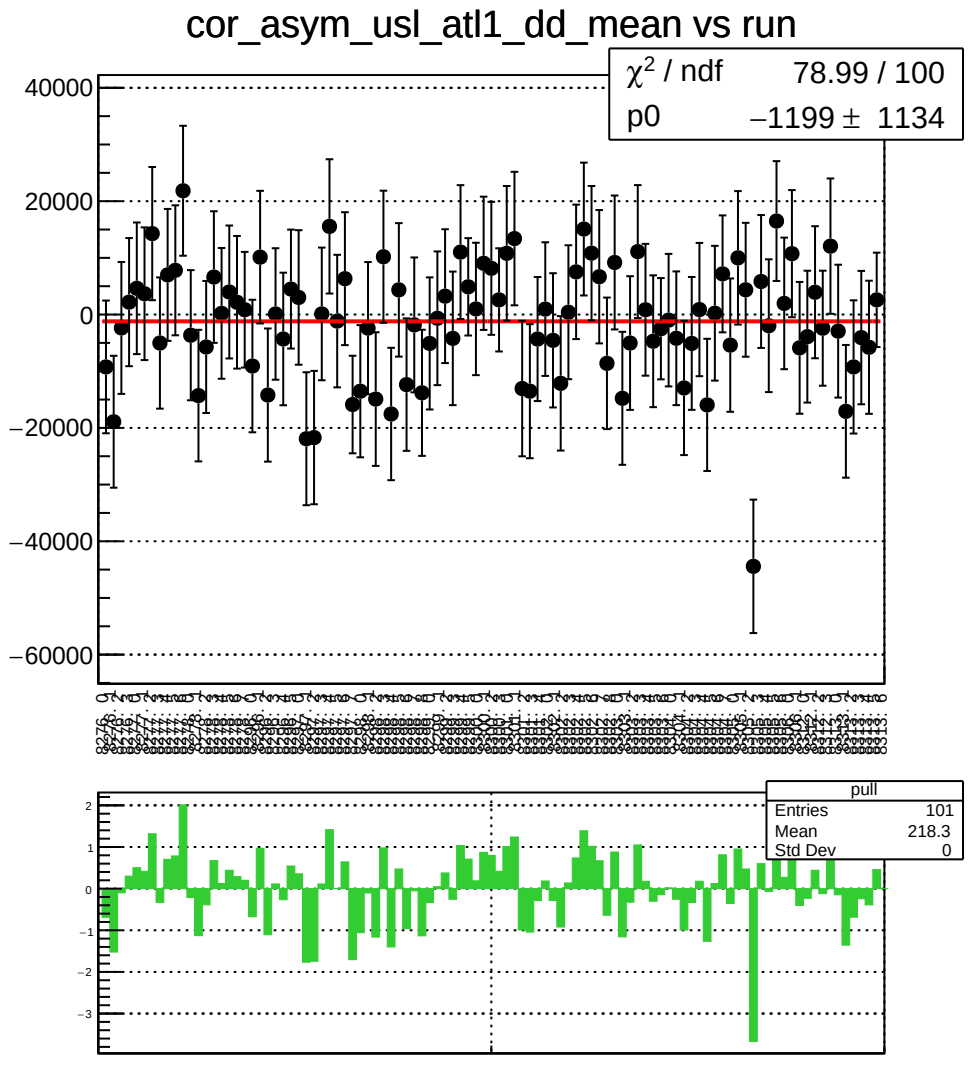

pull1D
Entries 101
Mean −0.002449
Std Dev 0.8843
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

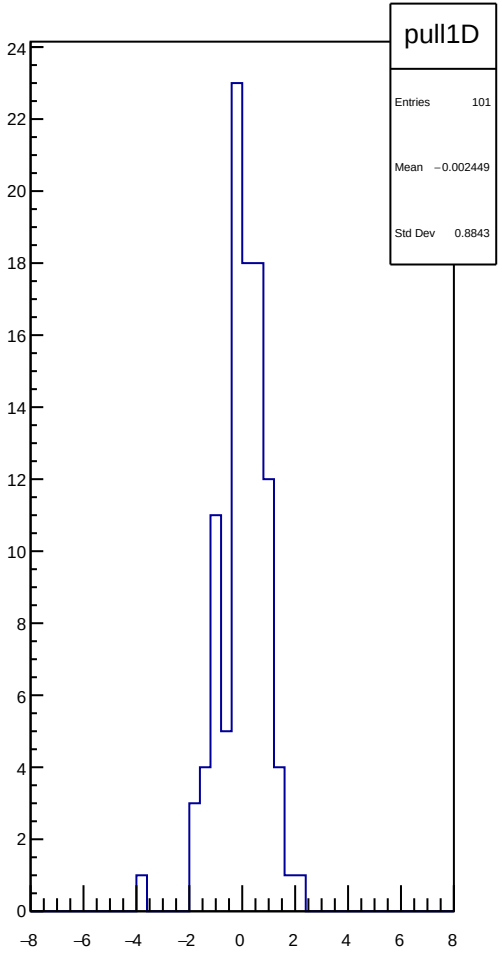

reg_asym_usl_atl1_dd_rms vs run
χ² / ndf 113.8 / 100
p0 1113 ± 0.8016
1140
1130
1120
1110
1100
1090
1080

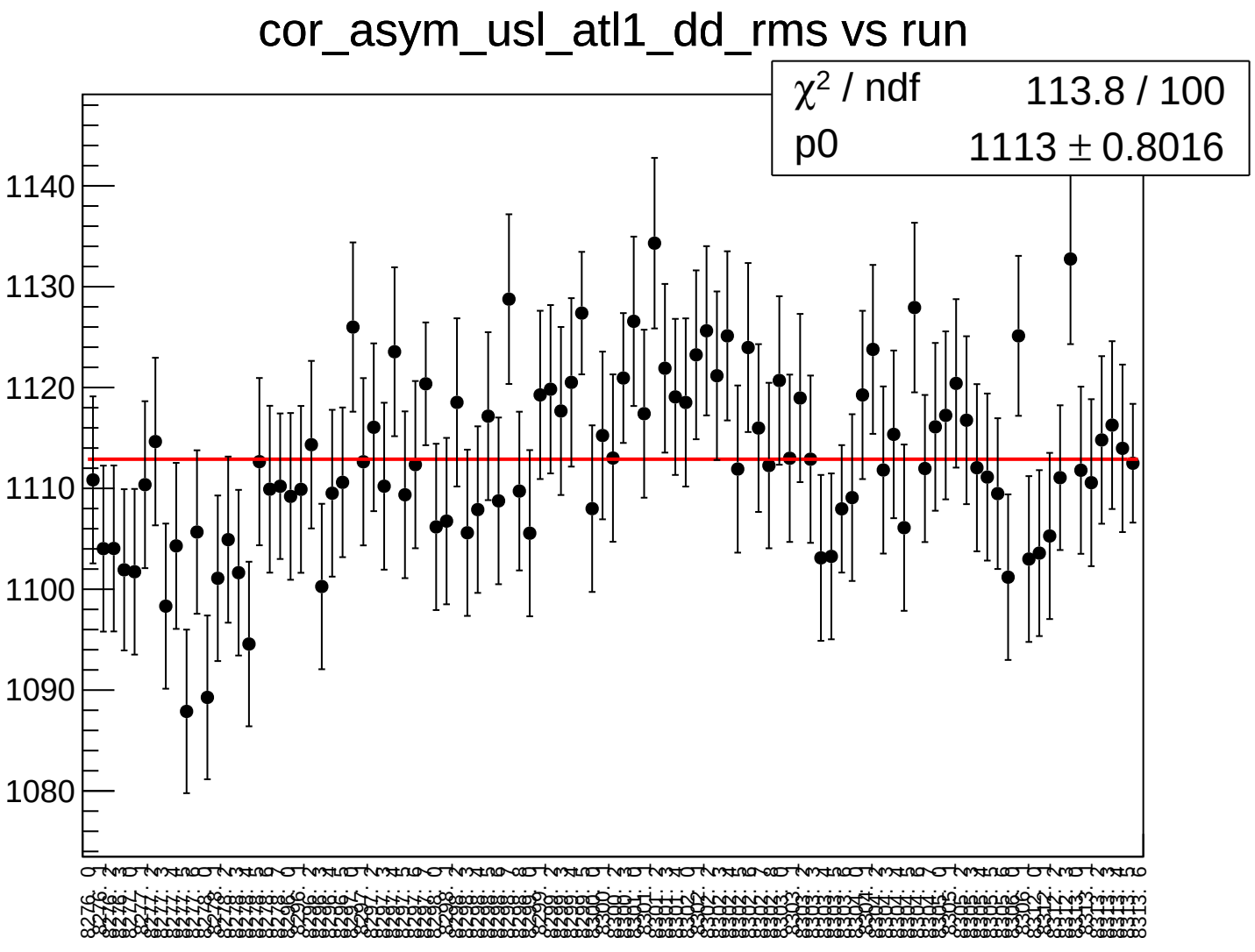

asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 82.03 / 100
p0 −1648 ± 519
pull
Entries 101
Mean −674.1
Std Dev 0

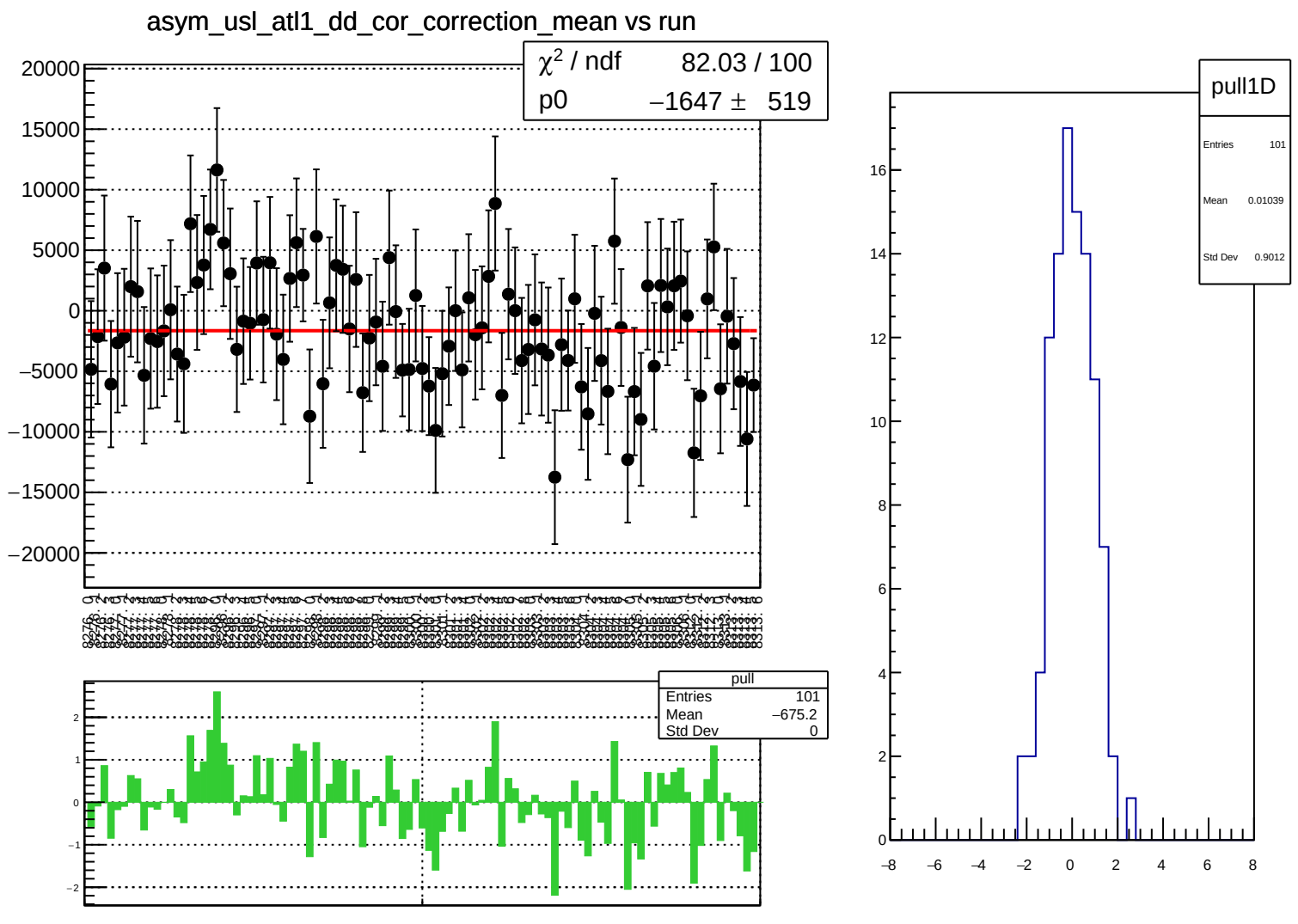

pull1D
Entries 101
Mean 0.01041
Std Dev 0.9012

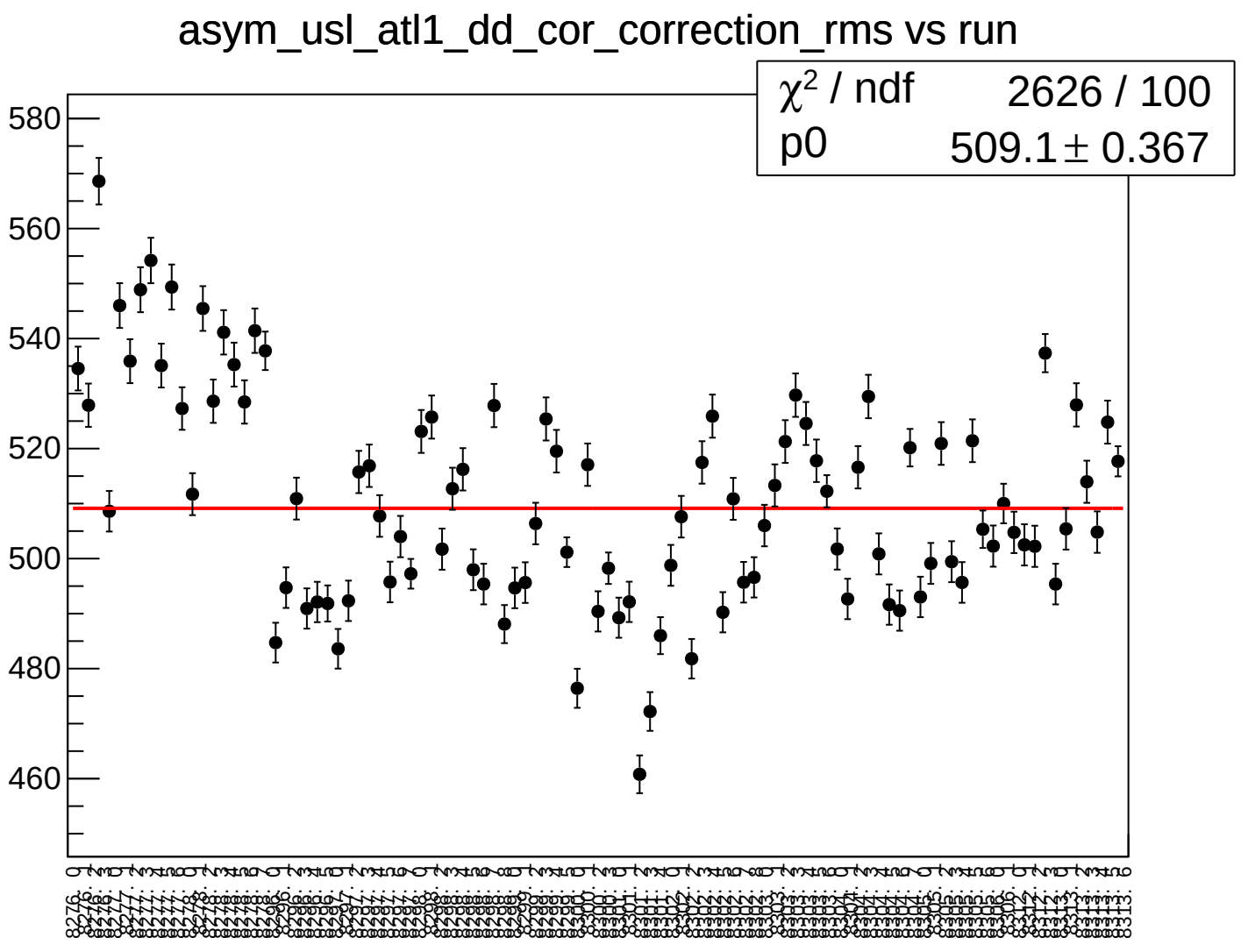

asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 2623 / 100
p0 509.2 ± 0.367
580
560
540
520
500
480
460

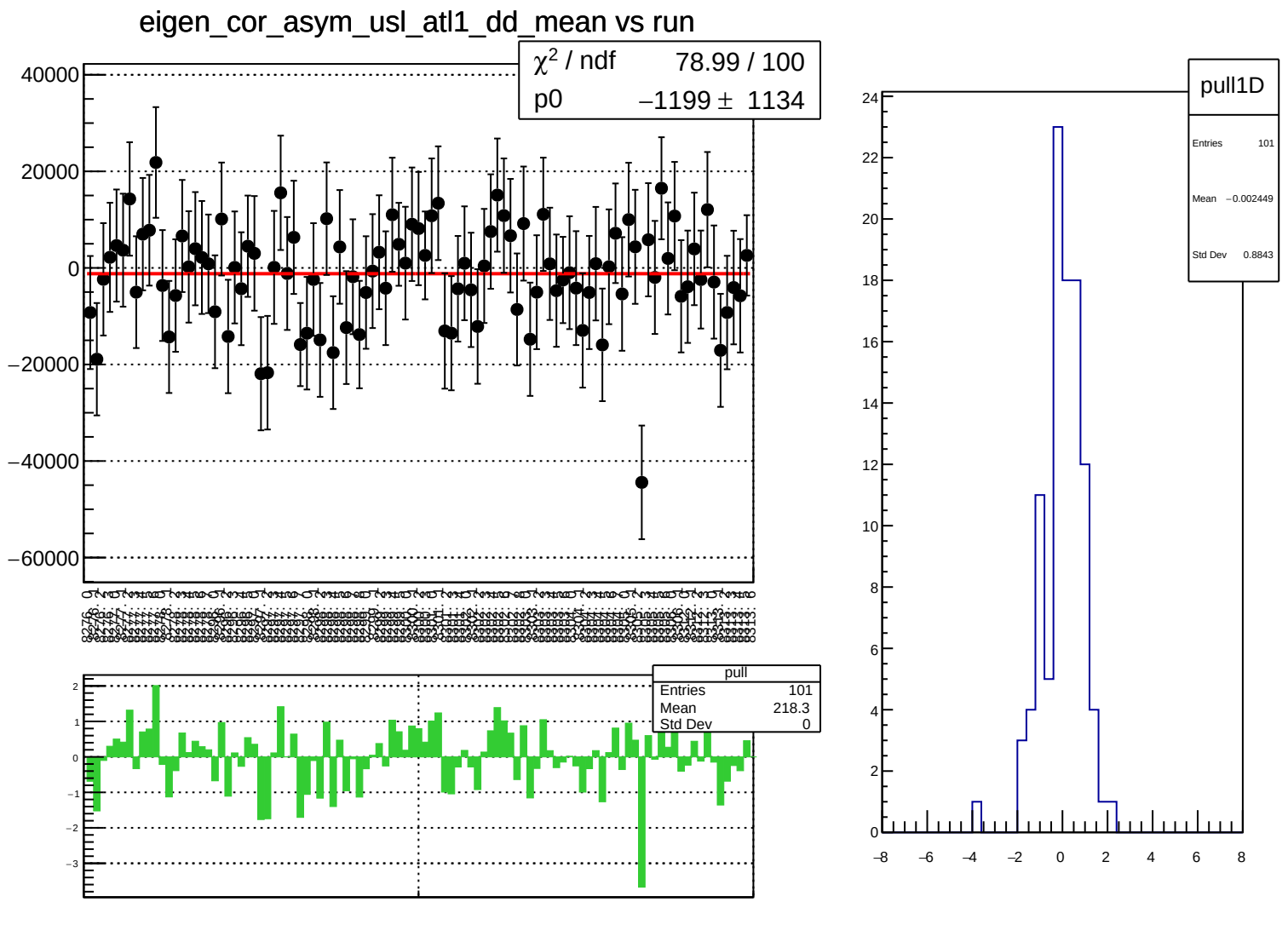

cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 78.99 / 100
p0 −1199 ± 1134
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean 218.3
Std Dev 0
2
1
0
−1
−2
−3

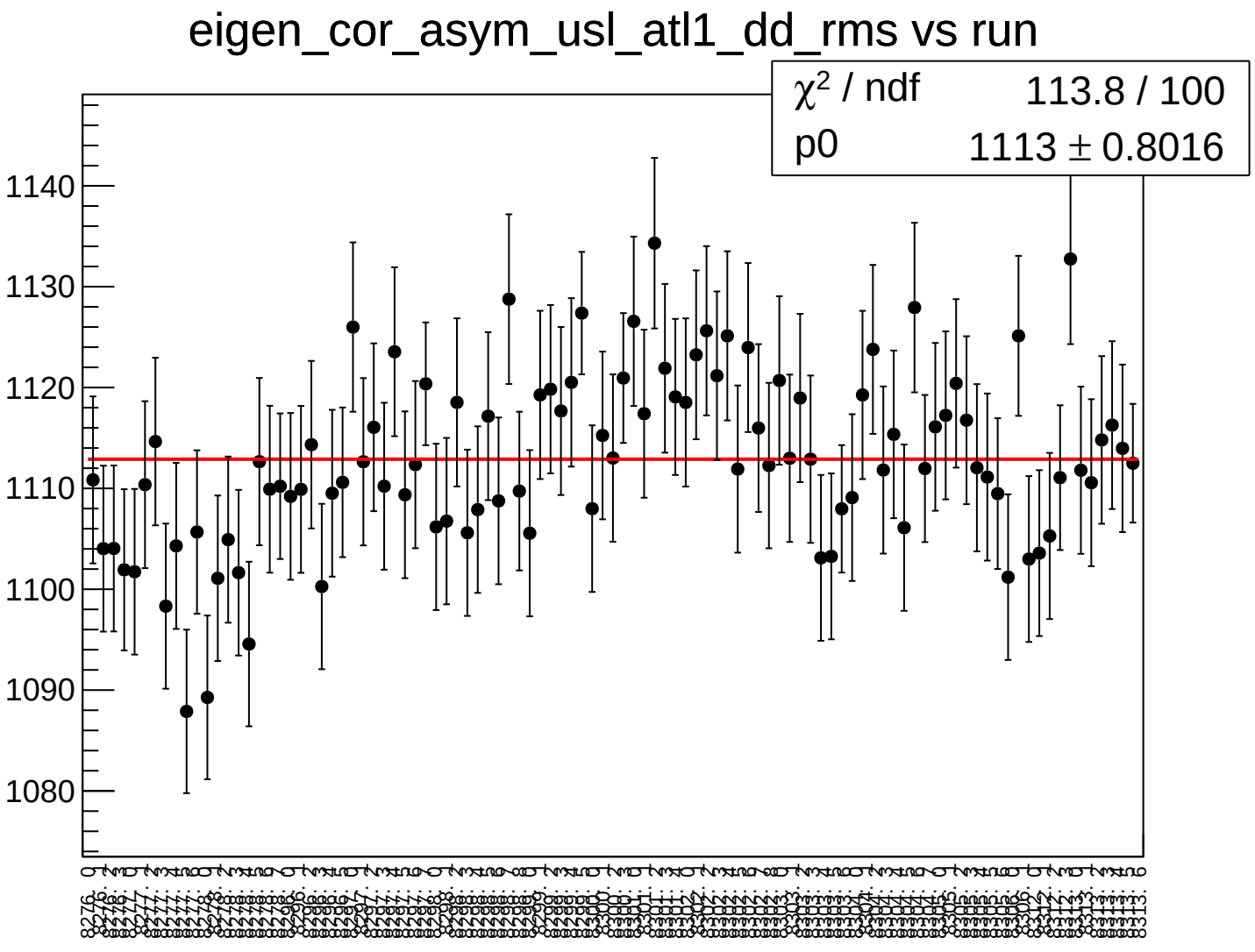

pull1D
Entries 101
Mean −0.002449
Std Dev 0.8843
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

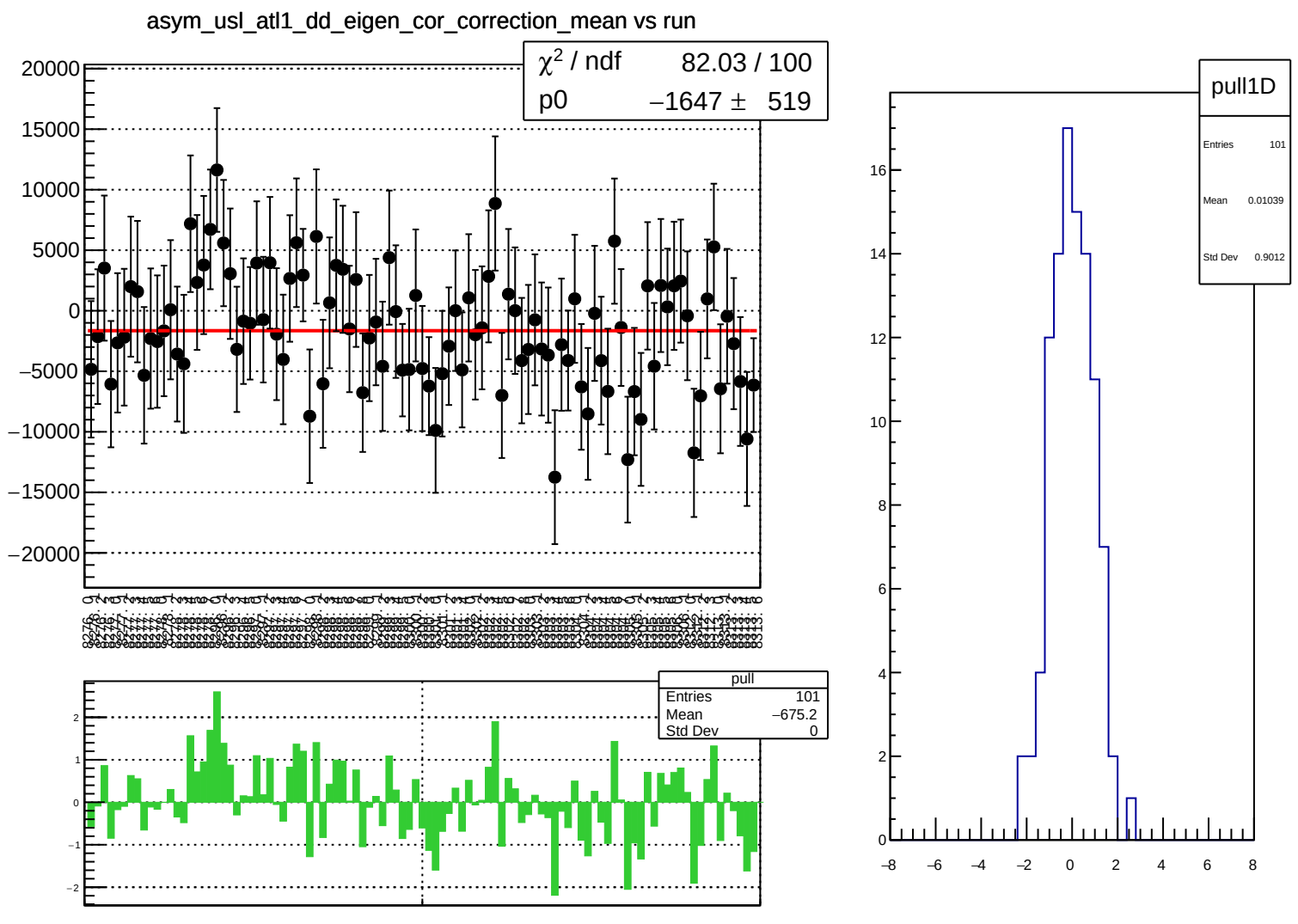

cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 113.8 / 100
p0 1113 ± 0.8016
1140
1130
1120
1110
1100
1090
1080

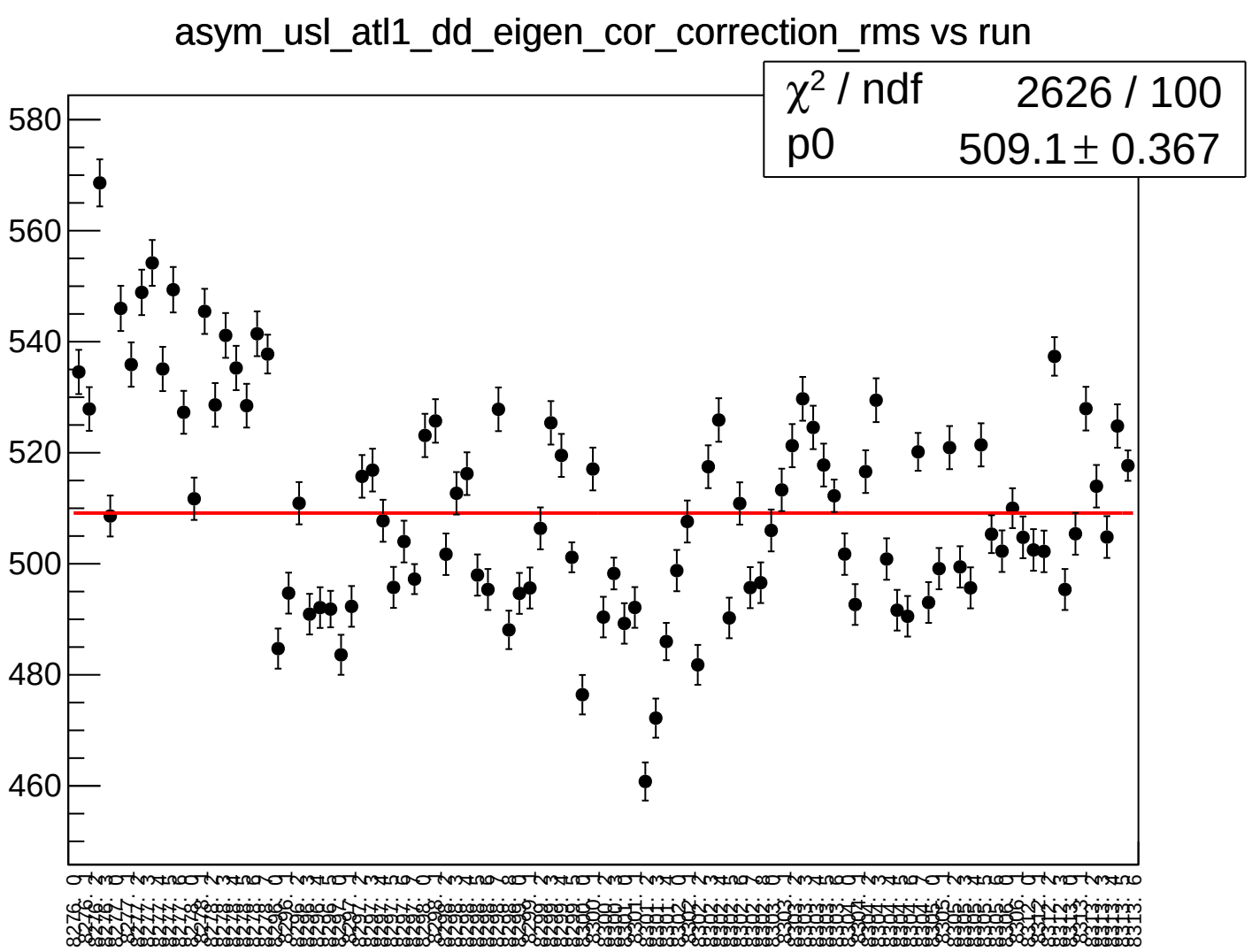

asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 82.03 / 100
p0 −1647 ± 519
pull
Entries 101
Mean −675.2
Std Dev 0
pull1D
Entries 101
Mean 0.01039
Std Dev 0.9012

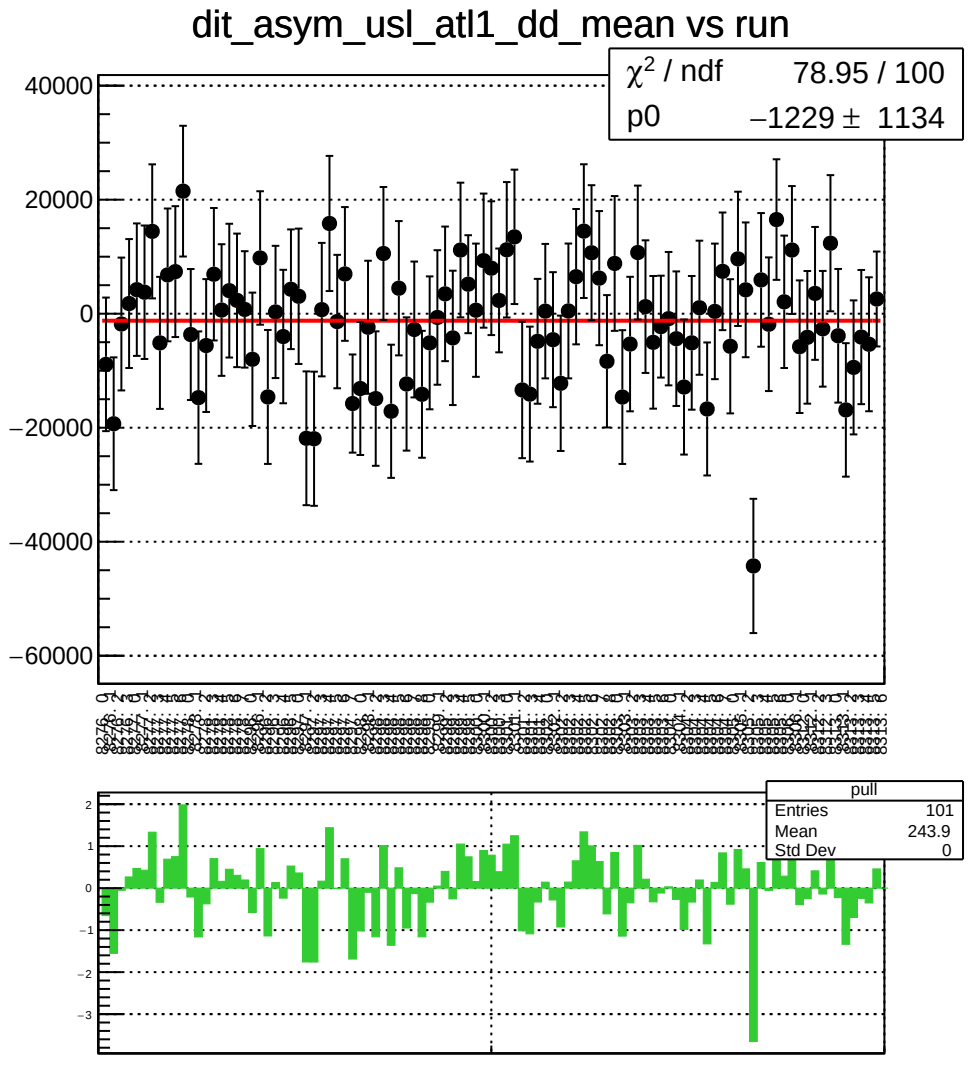

asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 2626 / 100
p0 509.1 ± 0.367
580
560
540
520
500
480
460

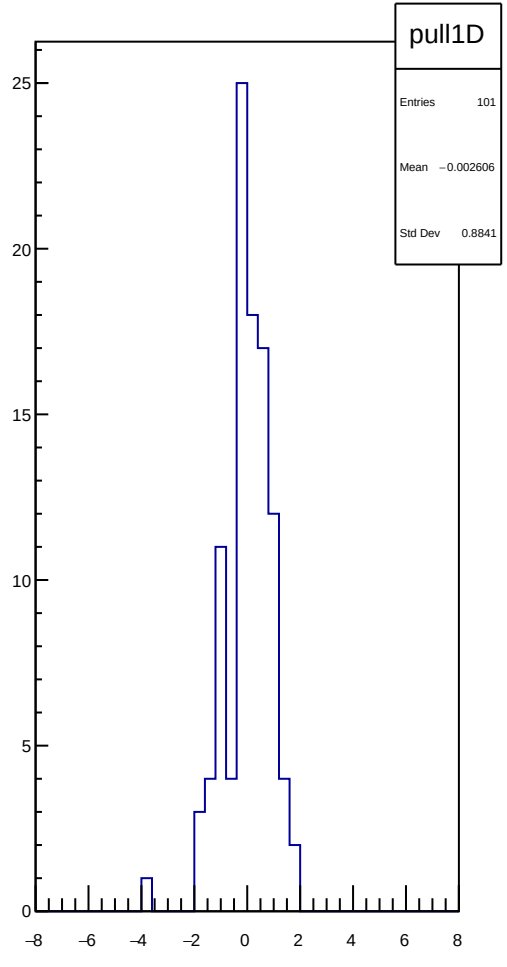

eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 78.99 / 100
p0 −1199 ± 1134
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean 218.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean −0.002449
Std Dev 0.8843
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

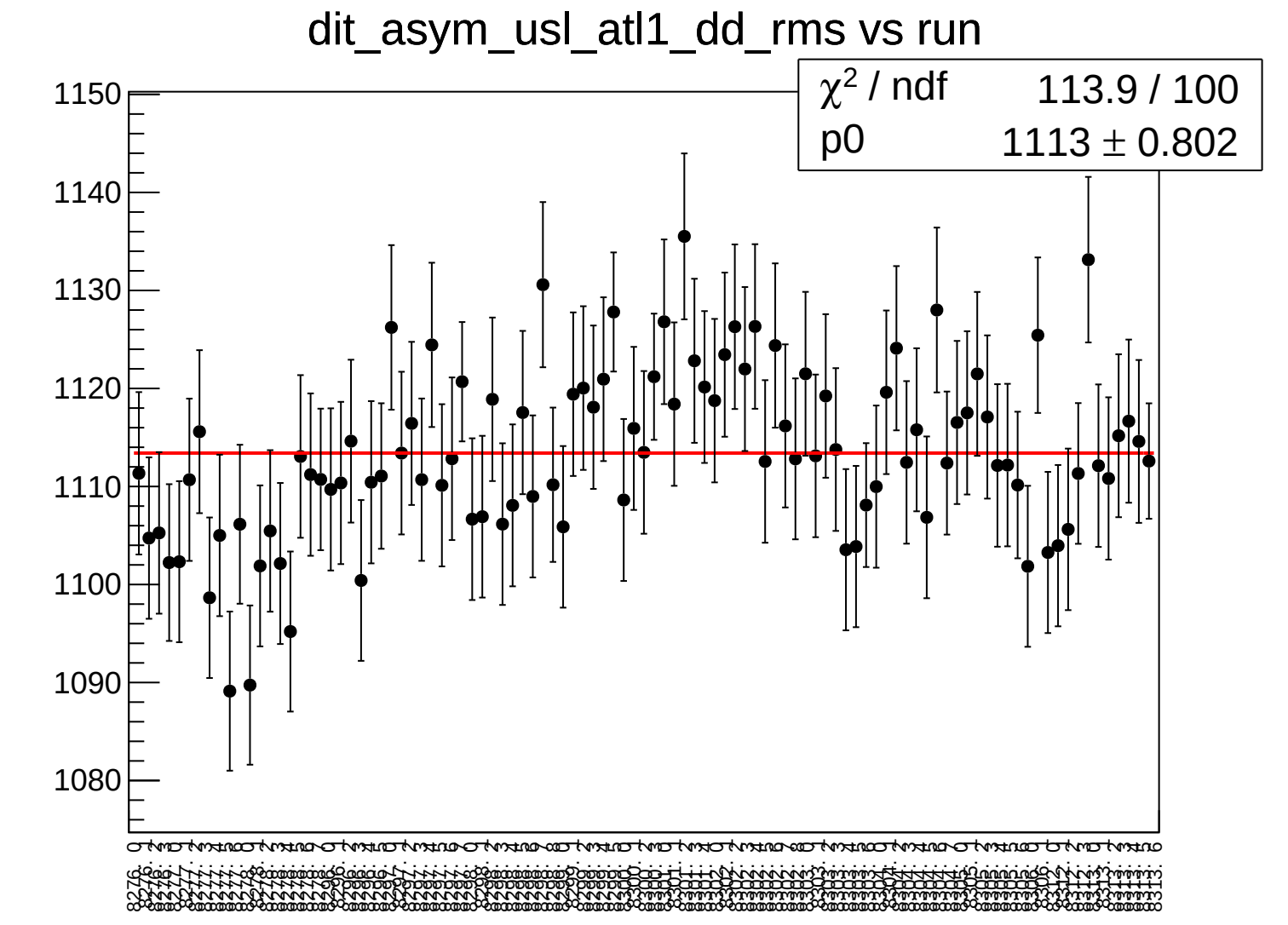

eigen_cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 113.8 / 100
p0 1113 ± 0.8016
1140
1130
1120
1110
1100
1090
1080

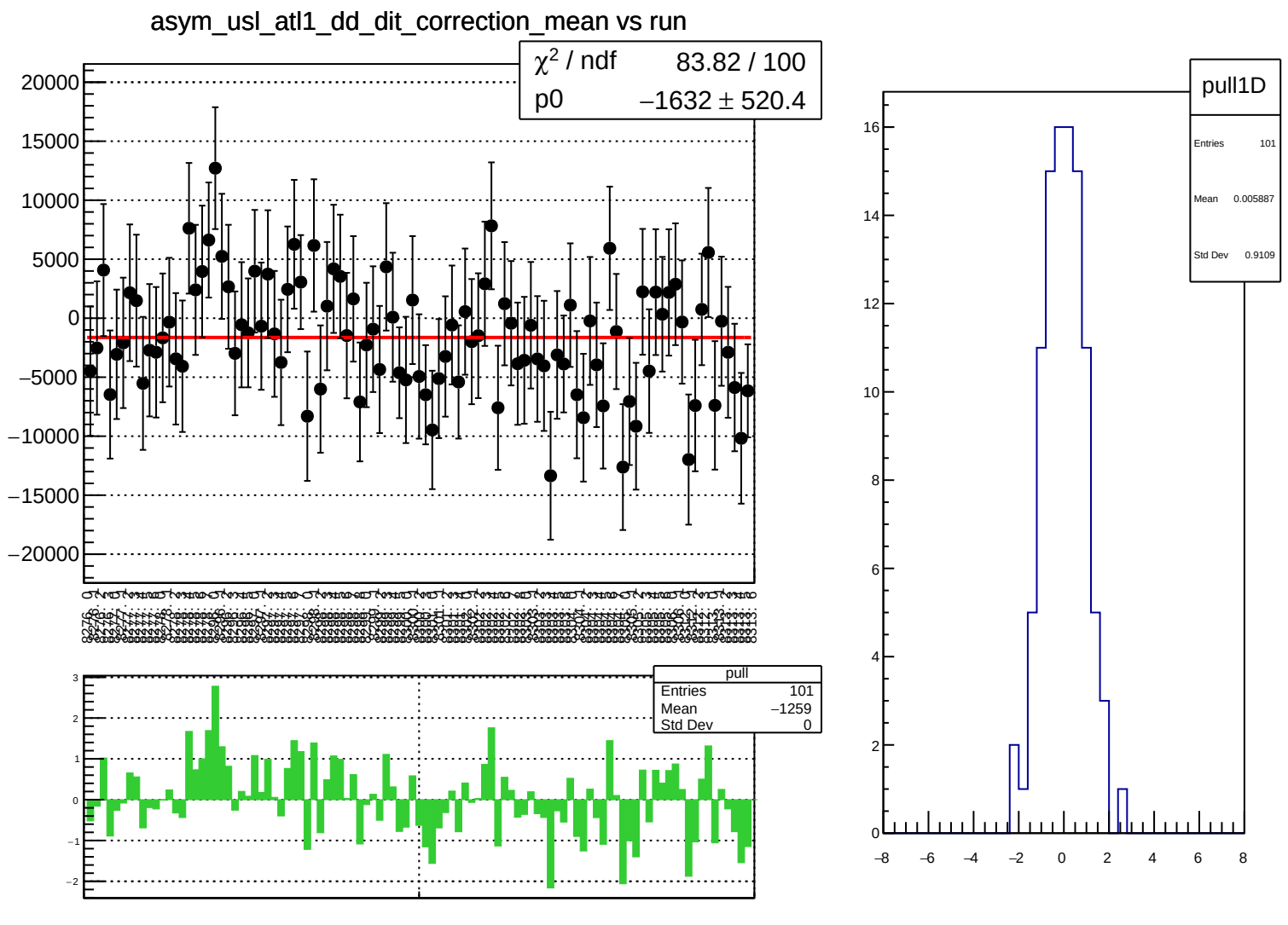

asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 82.03 / 100
p0 −1647 ± 519
pull
Entries 101
Mean −675.2
Std Dev 0
pull1D
Entries 101
Mean 0.01039
Std Dev 0.9012

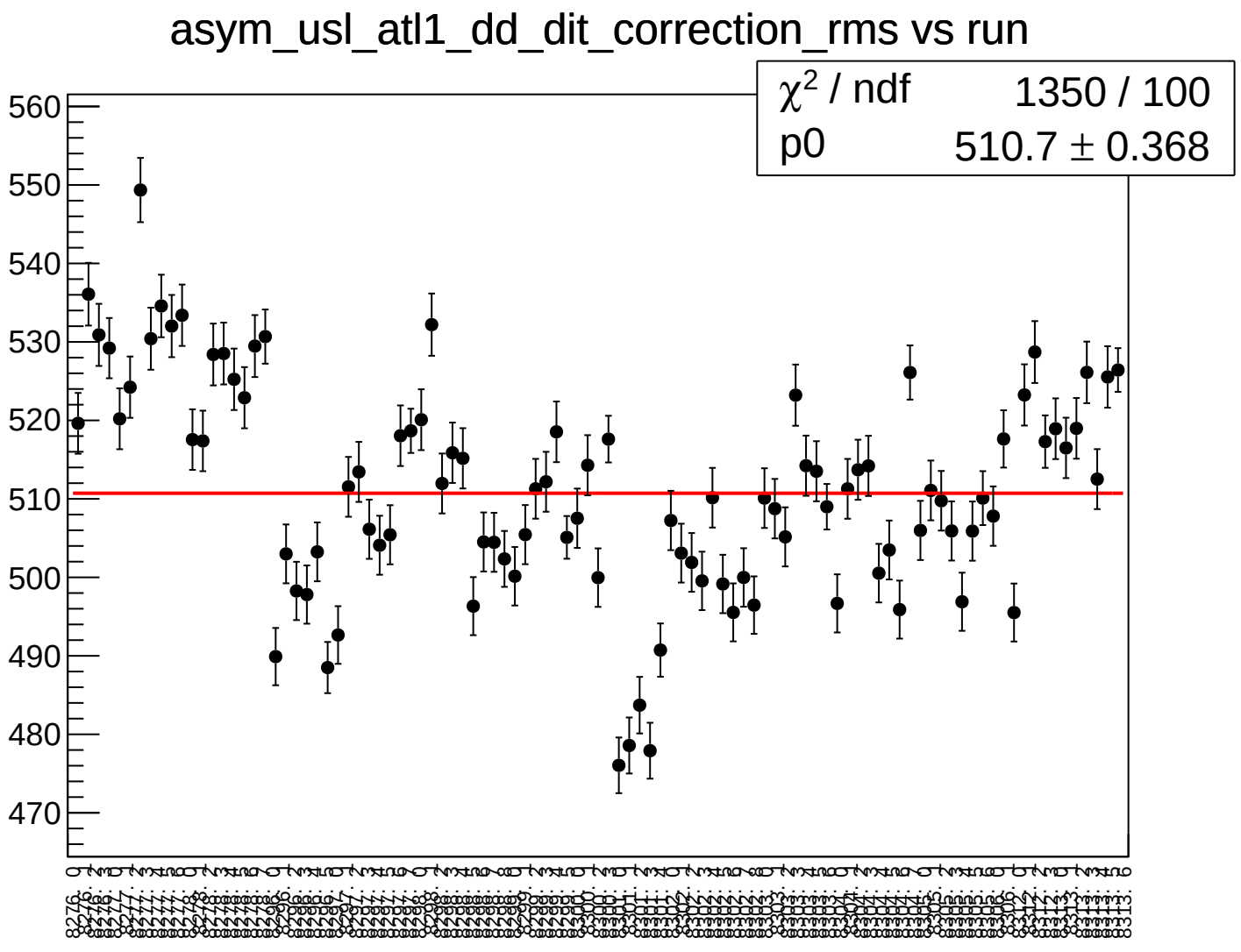

asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 2626 / 100
p0 509.1 ± 0.367
580
560
540
520
500
480
460

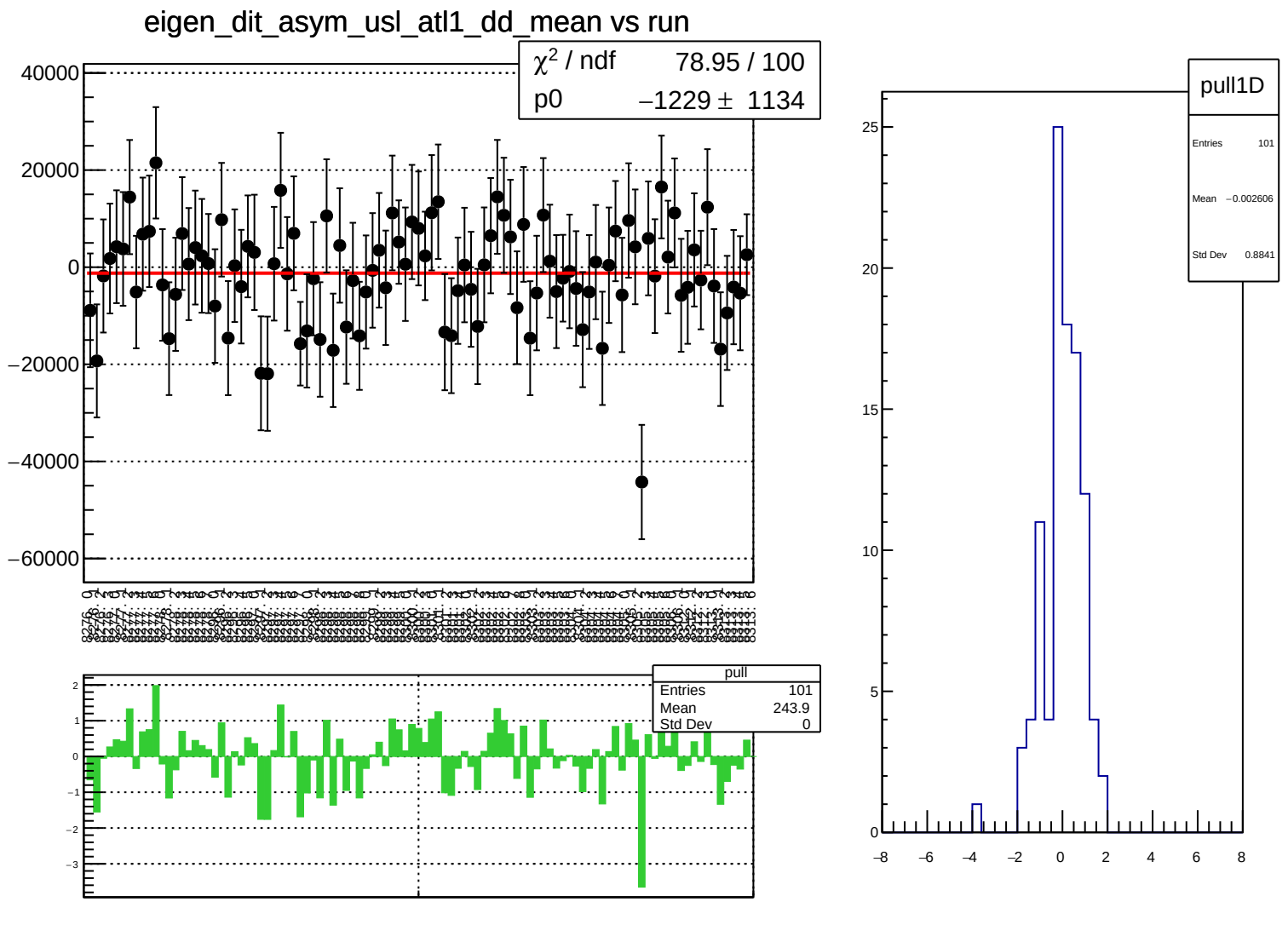

dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 78.95 / 100
p0 −1229 ± 1134
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean 243.9
Std Dev 0
2
1
0
−1
−2
−3

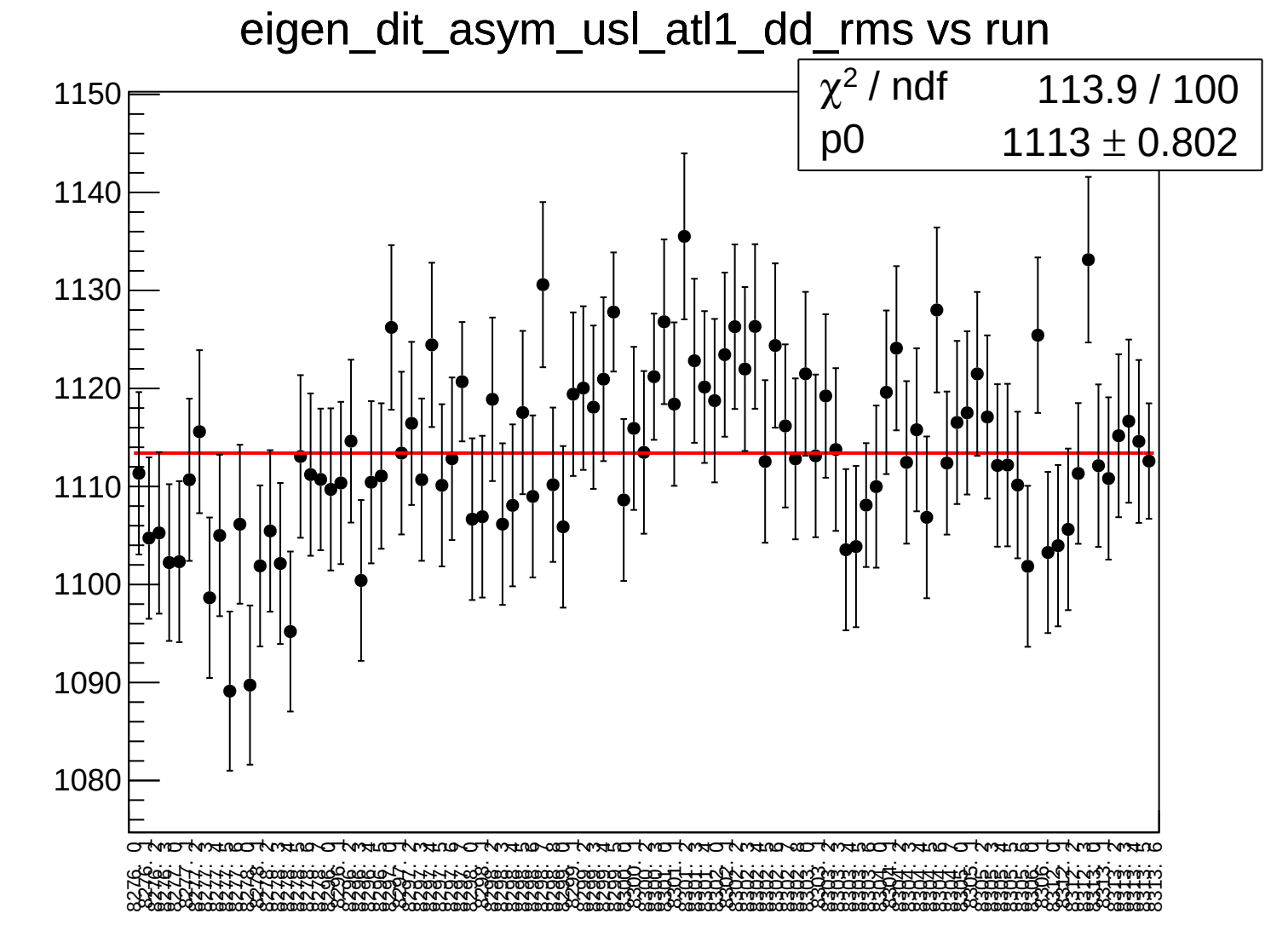

pull1D
Entries 101
Mean −0.002606
Std Dev 0.8841
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

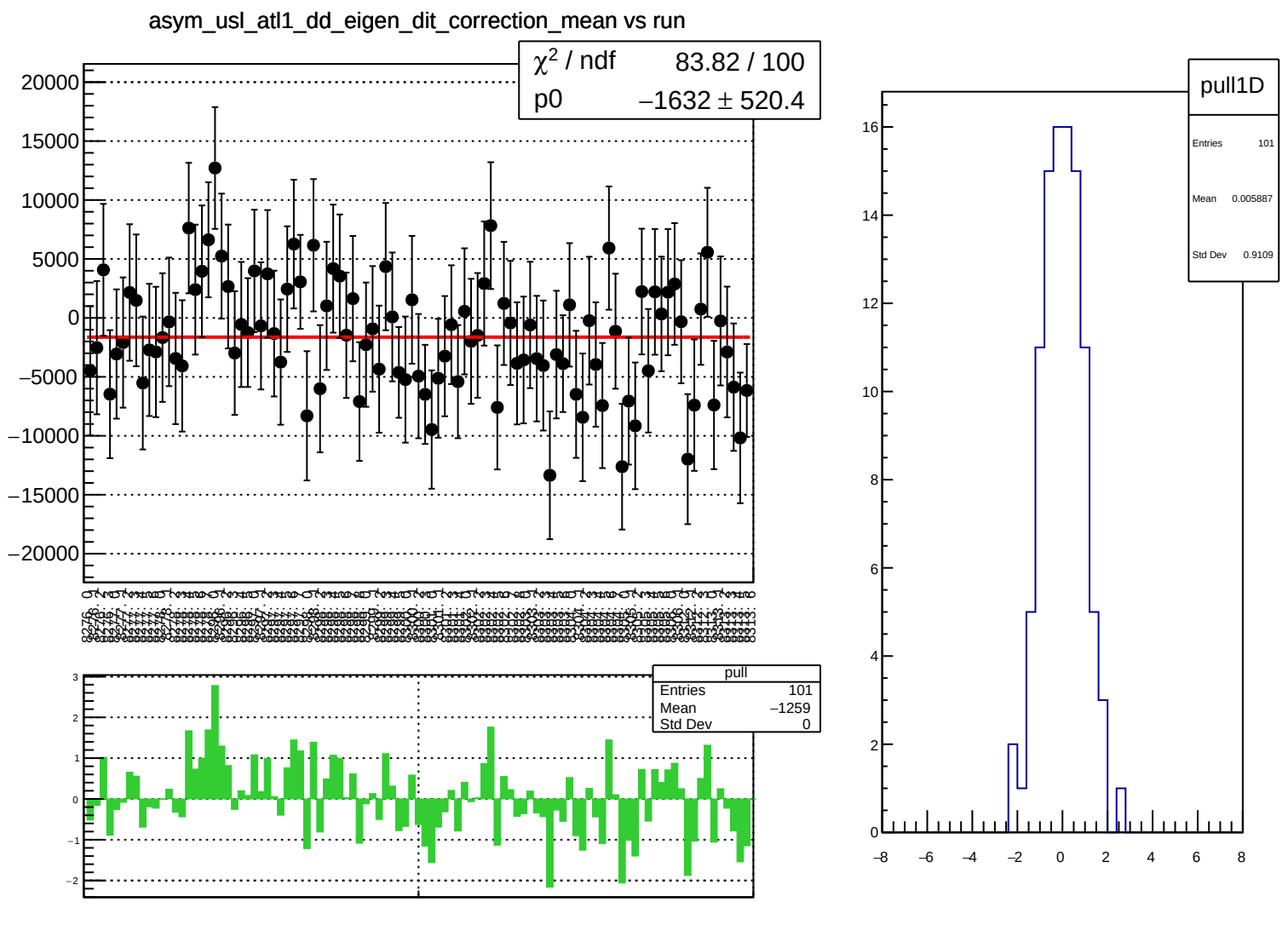

dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 113.9 / 100
p0 1113 ± 0.802
1150
1140
1130
1120
1110
1100
1090
1080

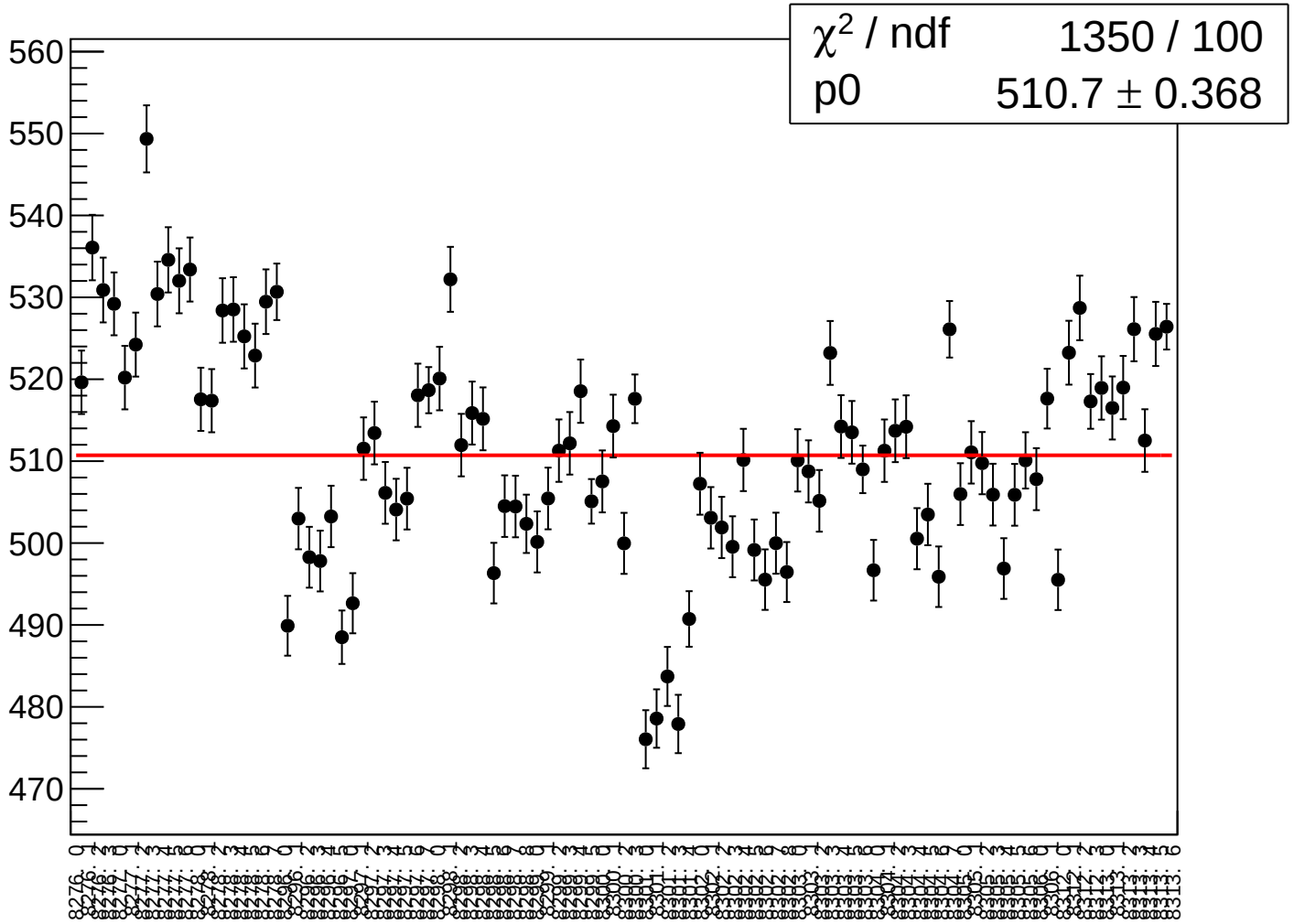

asym_usl_atl1_dd_dit_correction_mean vs run
χ² / ndf 83.82 / 100
p0 −1632 ± 520.4
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 101
Mean −1259
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.005887
Std Dev 0.9109
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

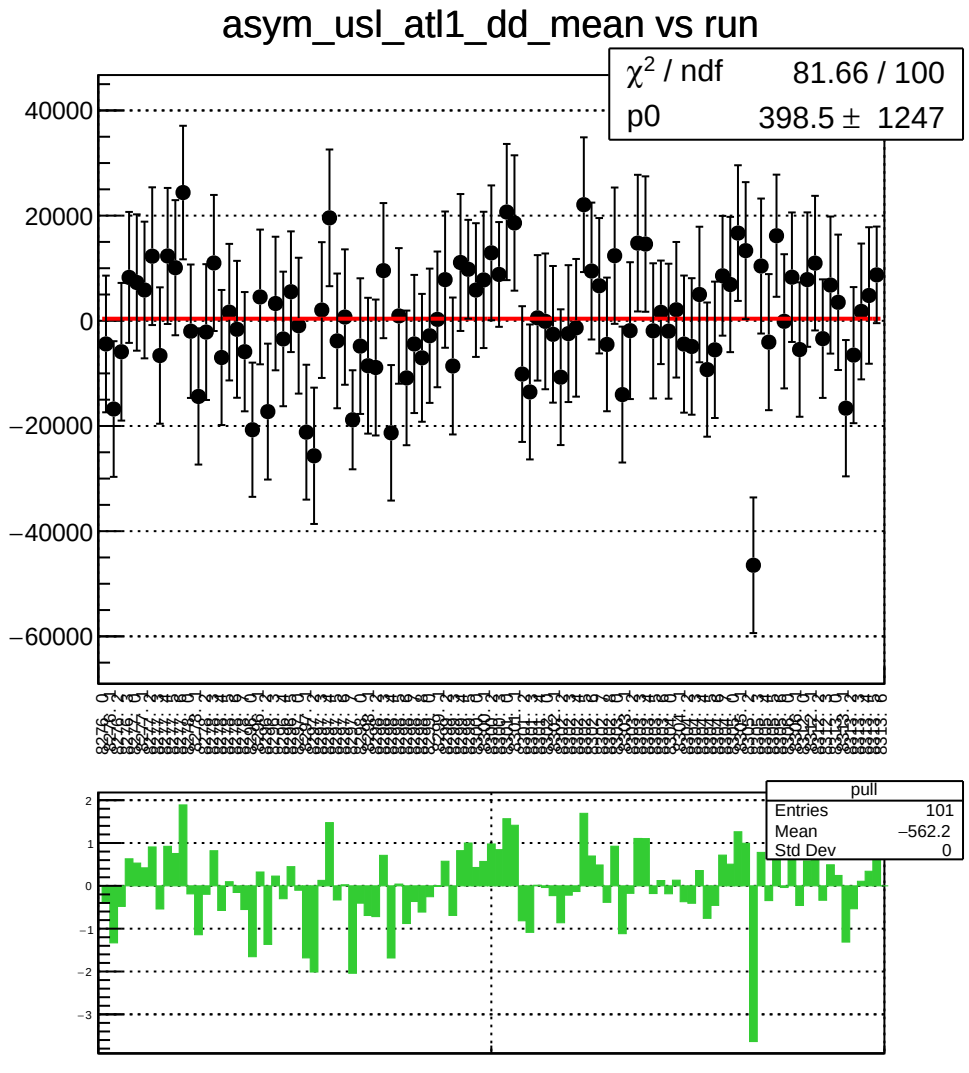

asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 1350 / 100
p0 510.7 ± 0.368
560
550
540
530
520
510
500
490
480
470

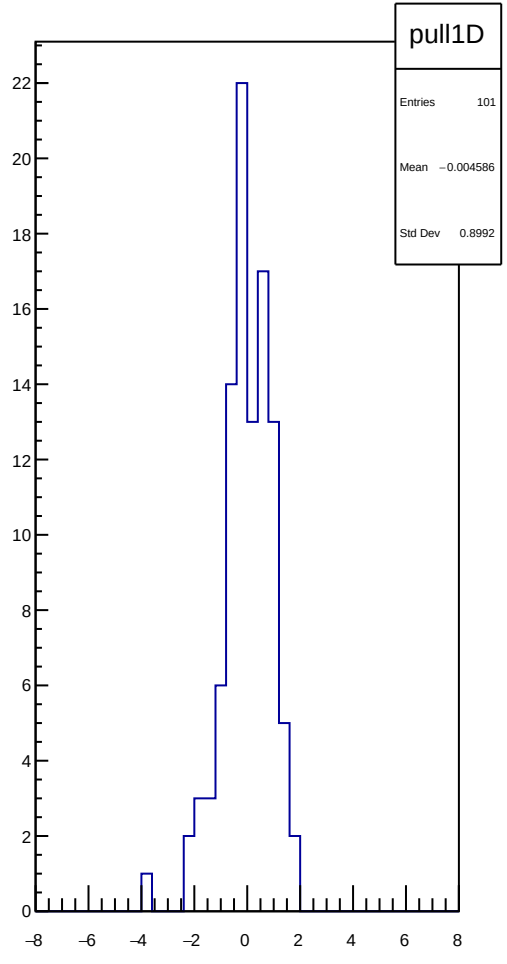

eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 78.95 / 100
p0 −1229 ± 1134
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean 243.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean −0.002606
Std Dev 0.8841
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

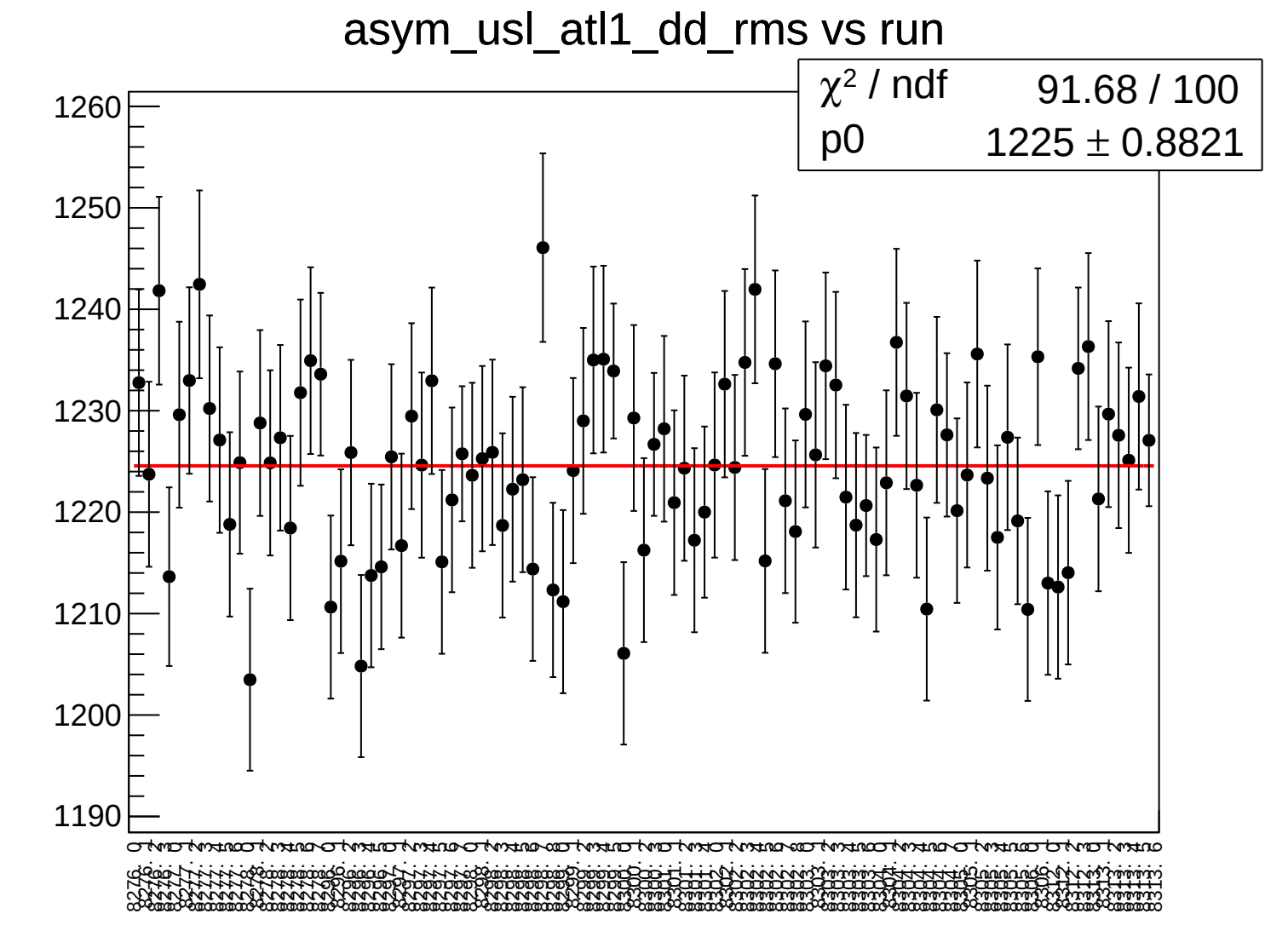

eigen_dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 113.9 / 100
p0 1113 ± 0.802
1150
1140
1130
1120
1110
1100
1090
1080

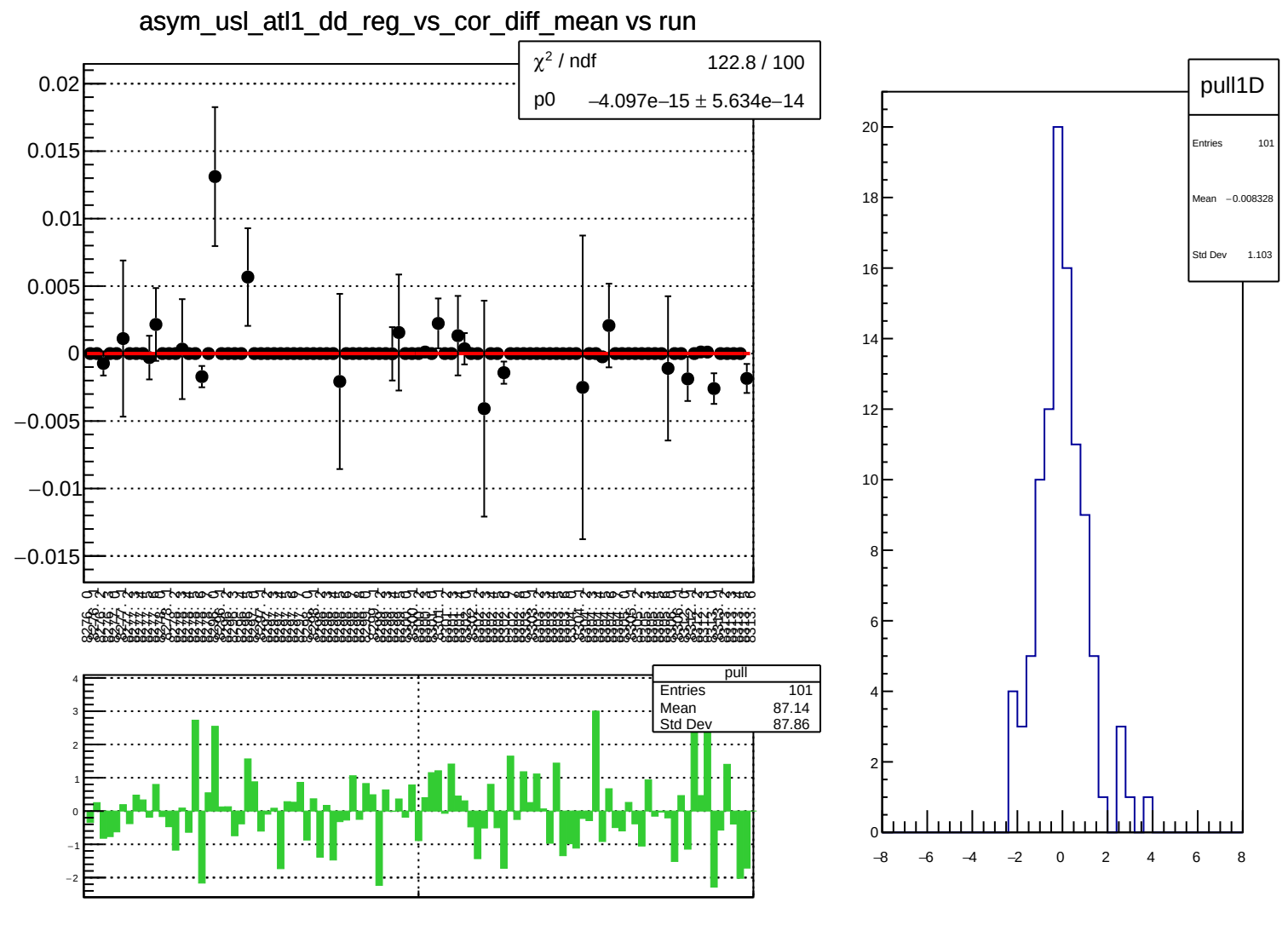

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 83.82 / 100
p0 −1632 ± 520.4
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 101
Mean −1259
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.005887
Std Dev 0.9109
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

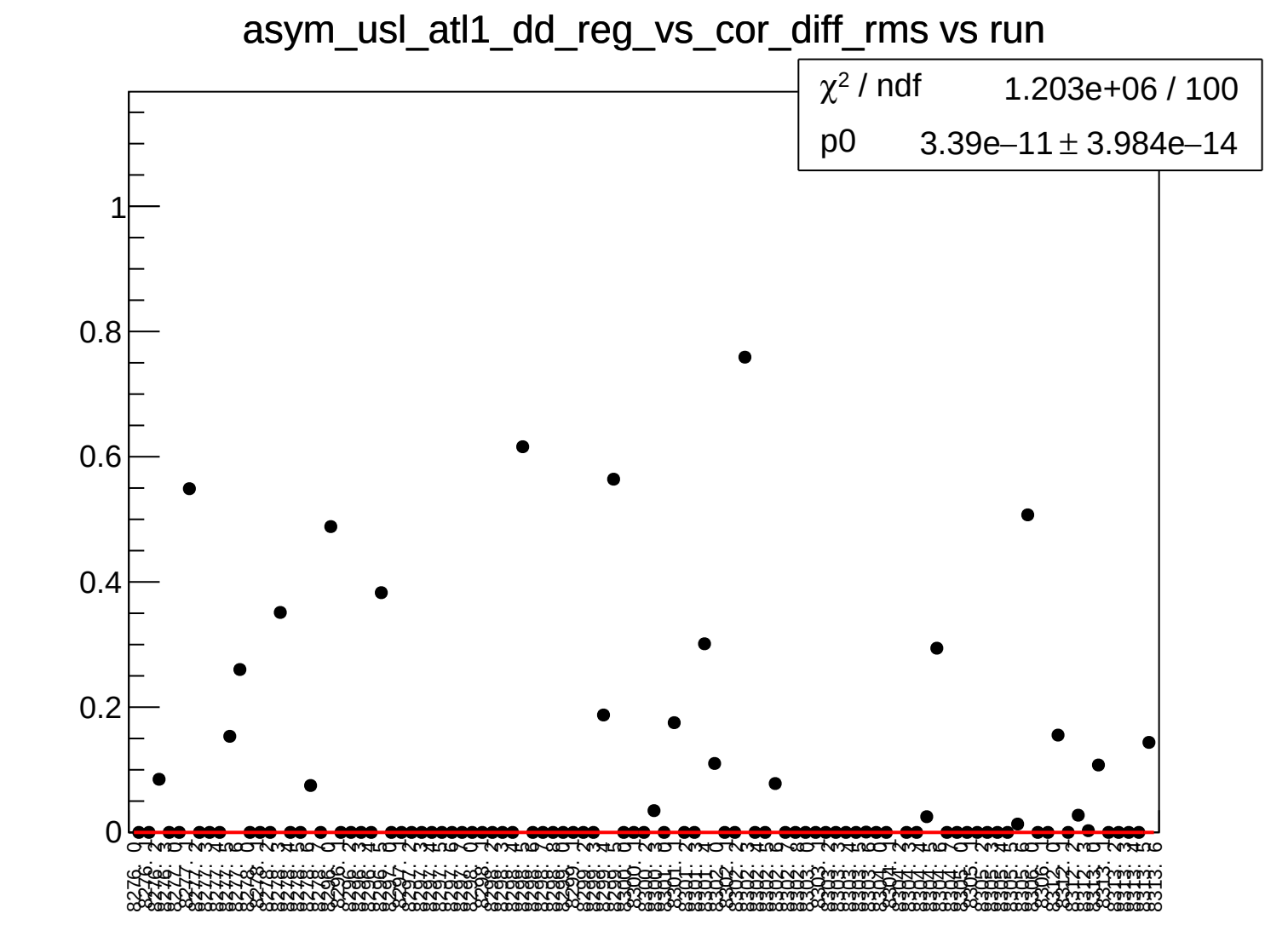

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1350 / 100
p0 510.7 ± 0.368
560
550
540
530
520
510
500
490
480
470

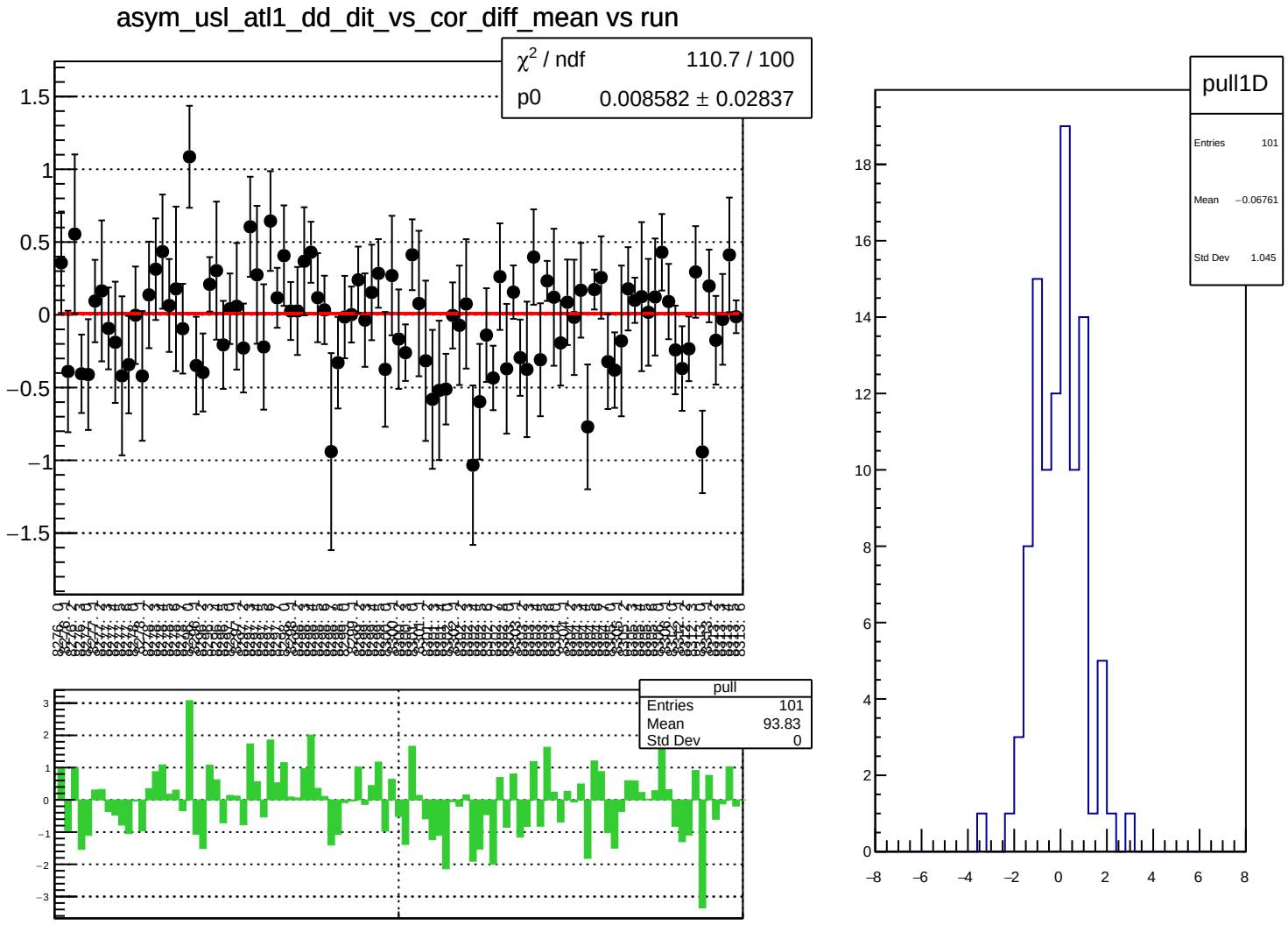

asym_usl_atl1_dd_mean vs run
χ² / ndf 81.66 / 100
p0 398.5 ± 1247
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −562.2
Std Dev 0
2
1
0
−1
−2
−3

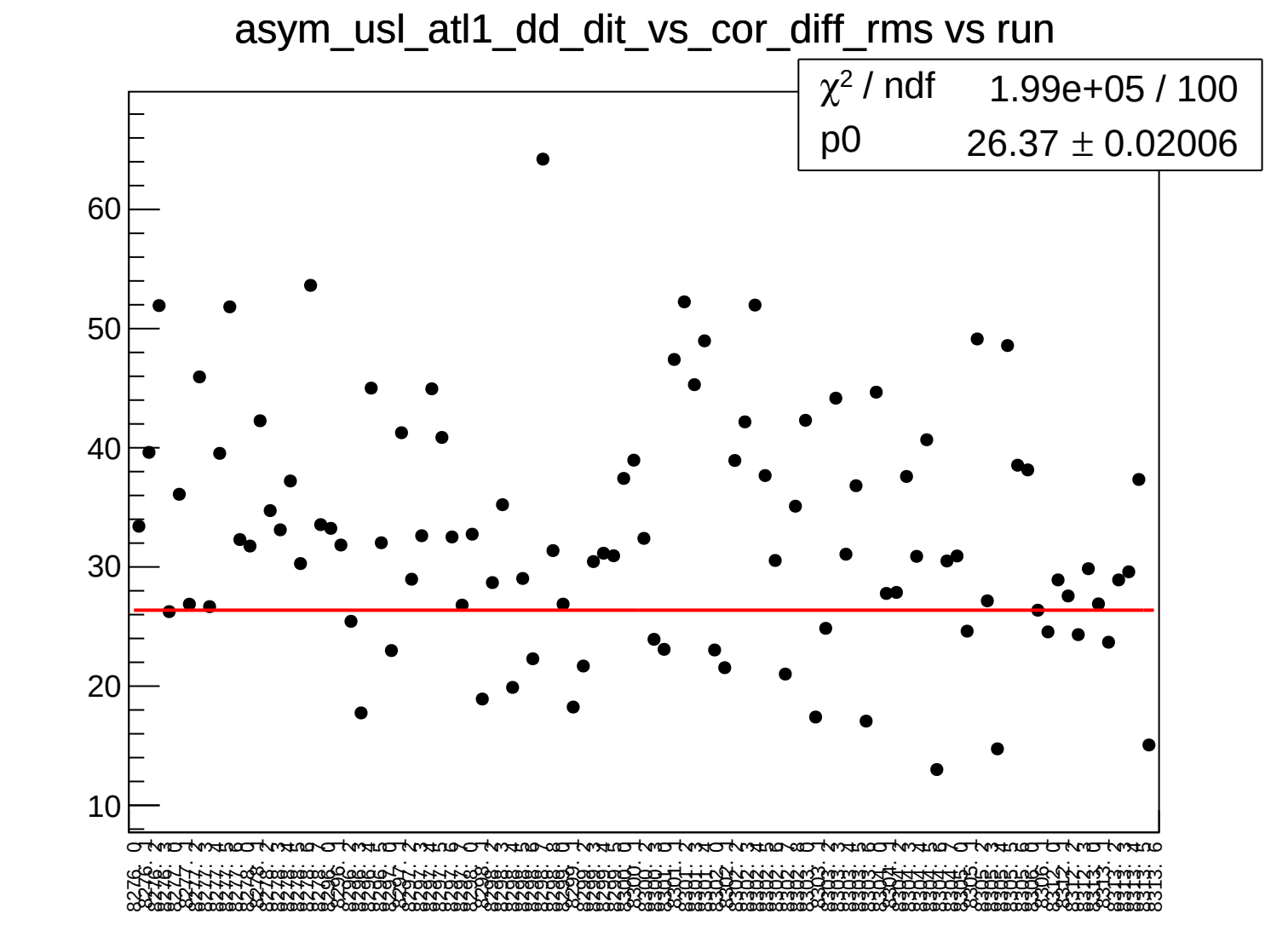

pull1D
Entries 101
Mean −0.004586
Std Dev 0.8992
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

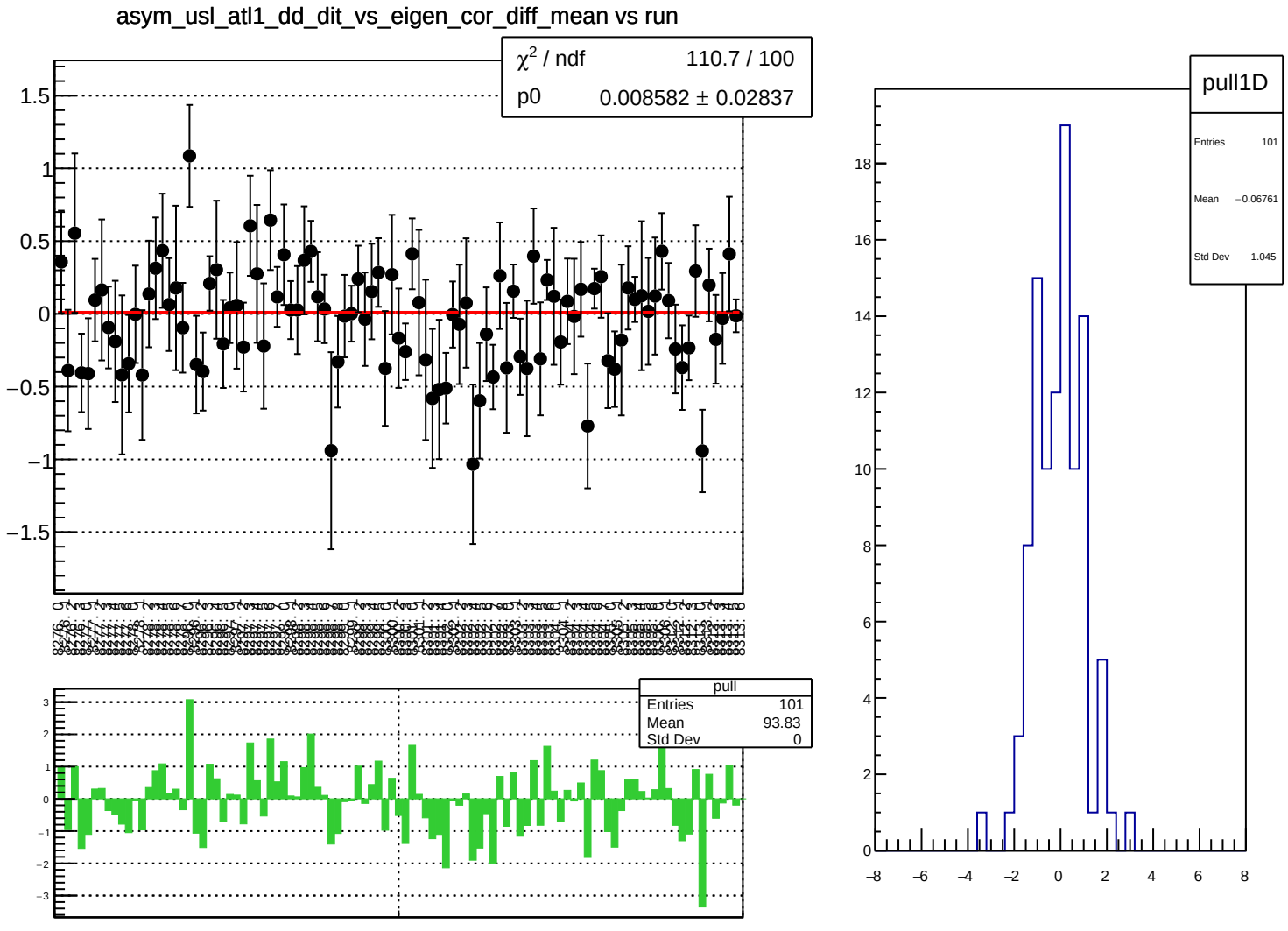

asym_usl_atl1_dd_rms vs run
χ² / ndf 91.68 / 100
p0 1225 ± 0.8821
1260
1250
1240
1230
1220
1210
1200
1190

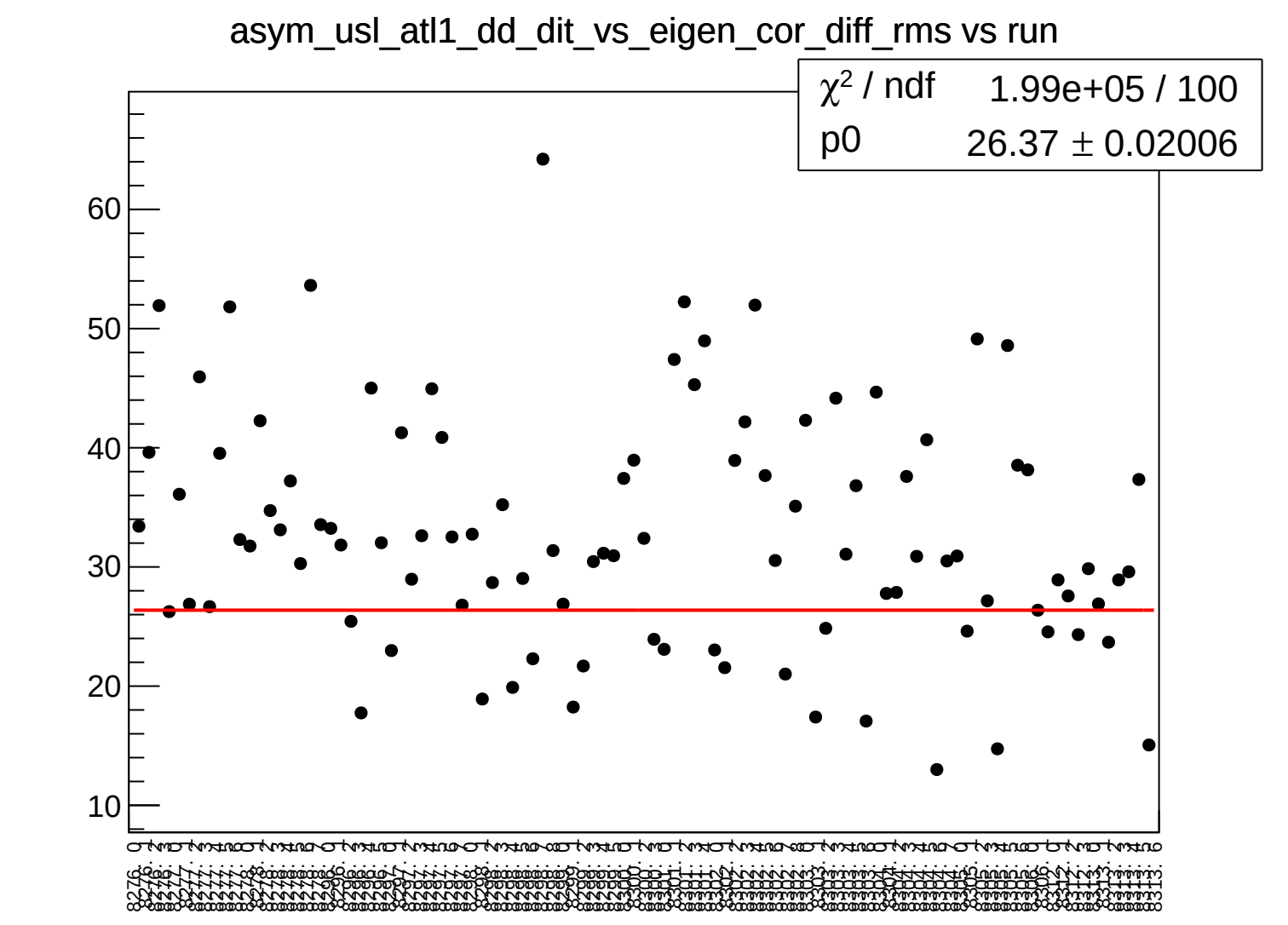

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 122.8 / 100
p0 −4.097e−15 ± 5.634e−14
pull
Entries 101
Mean 87.14
Std Dev 87.86
pull1D
Entries 101
Mean −0.008328
Std Dev 1.103

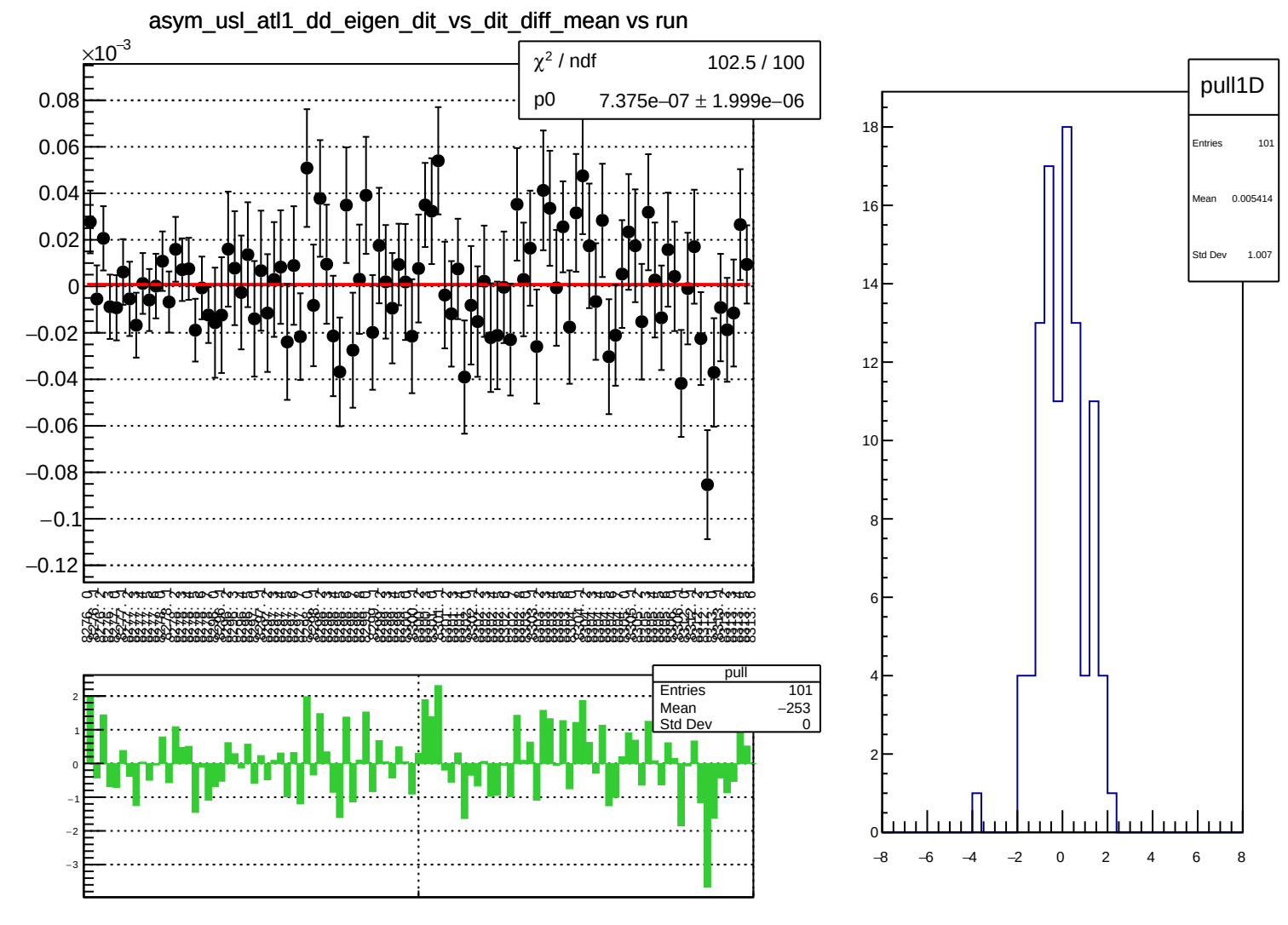

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.203e+06 / 100
p0 3.39e−11 ± 3.984e−14
1
0.8
0.6
0.4
0.2
0

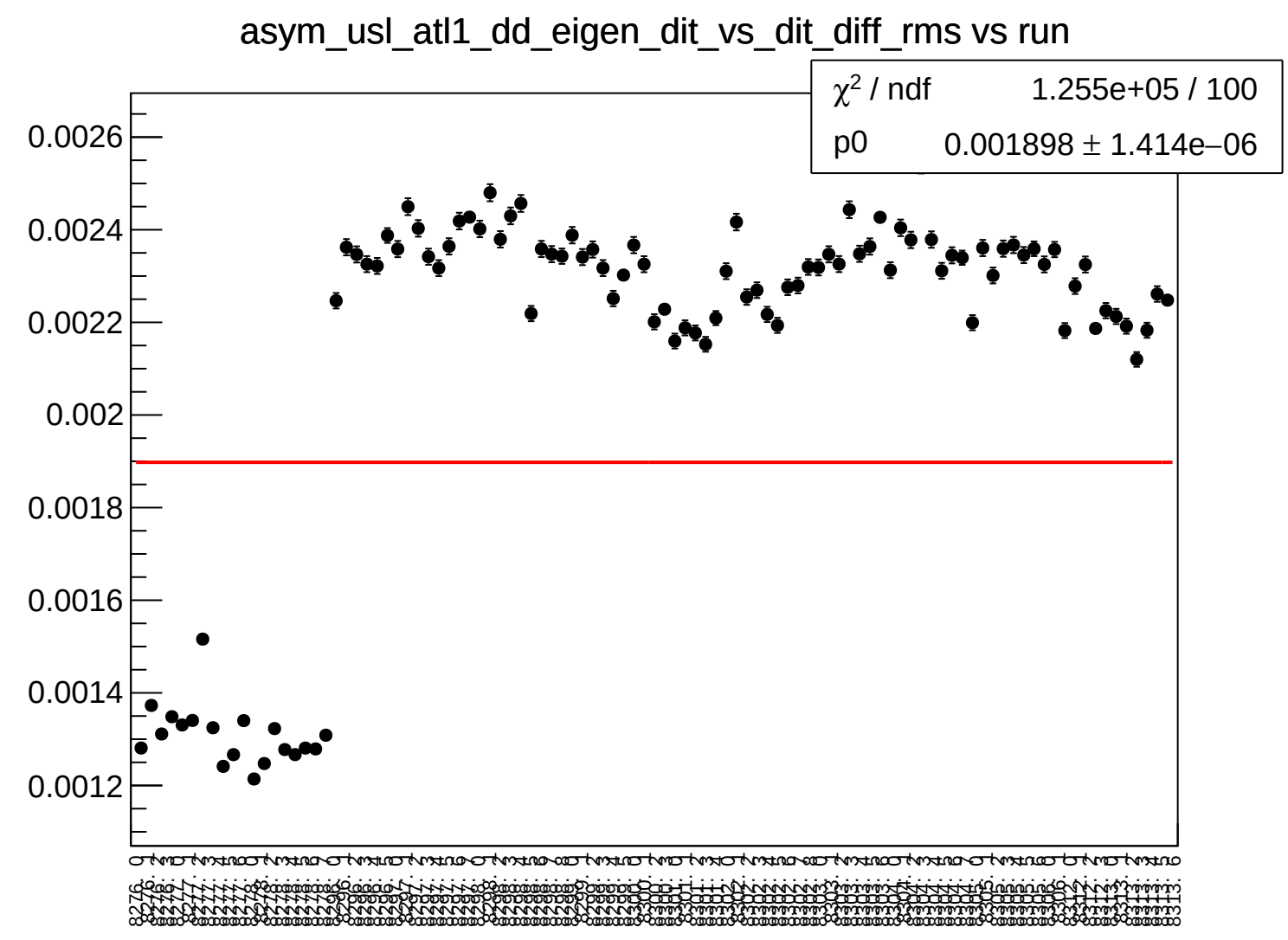

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 110.7 / 100
p0 0.008582 ± 0.02837
pull
Entries 101
Mean 93.83
Std Dev 0
pull1D
Entries 101
Mean −0.06761
Std Dev 1.045

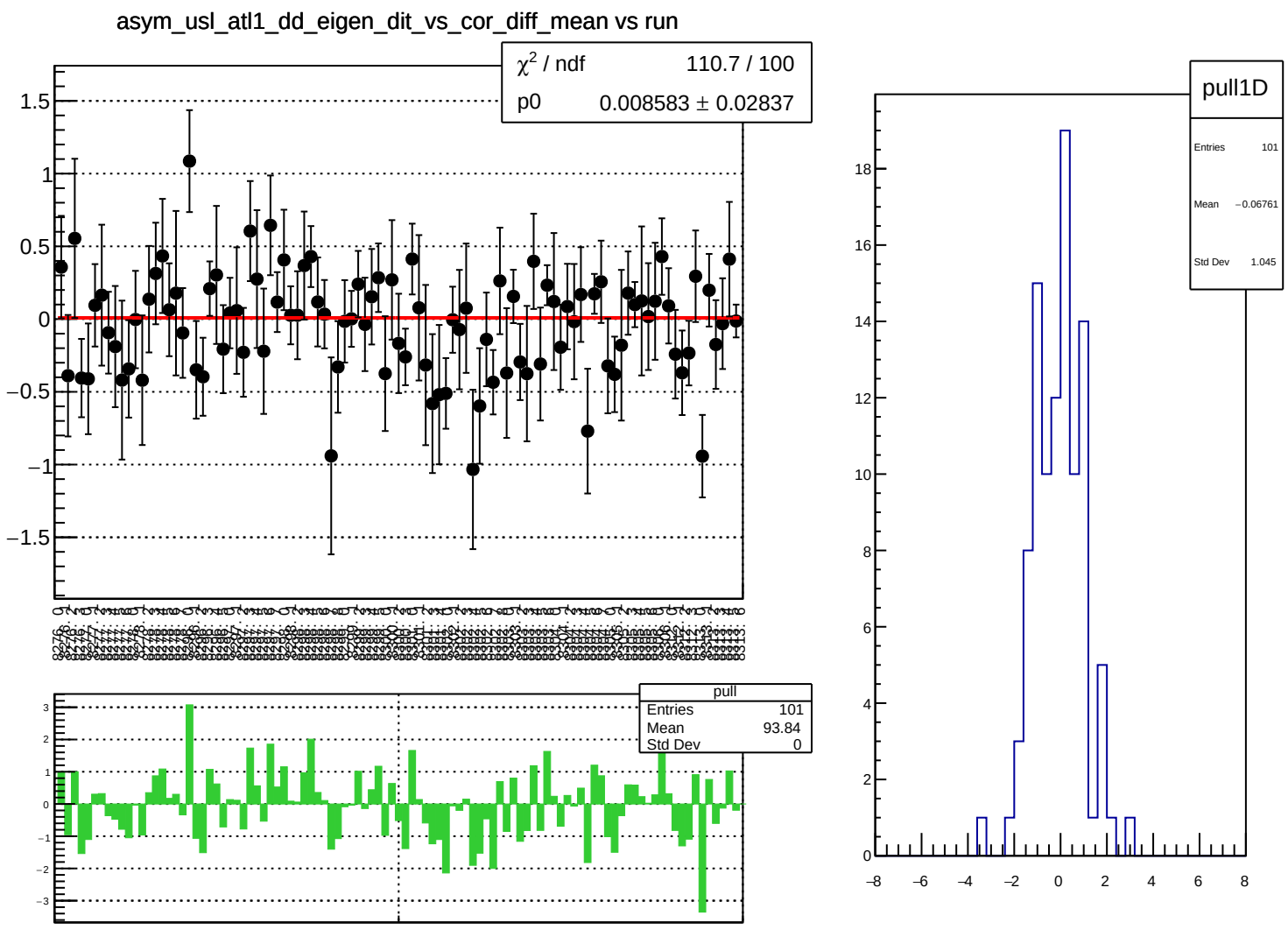

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.99e+05 / 100
p0 26.37 ± 0.02006
60
50
40
30
20
10

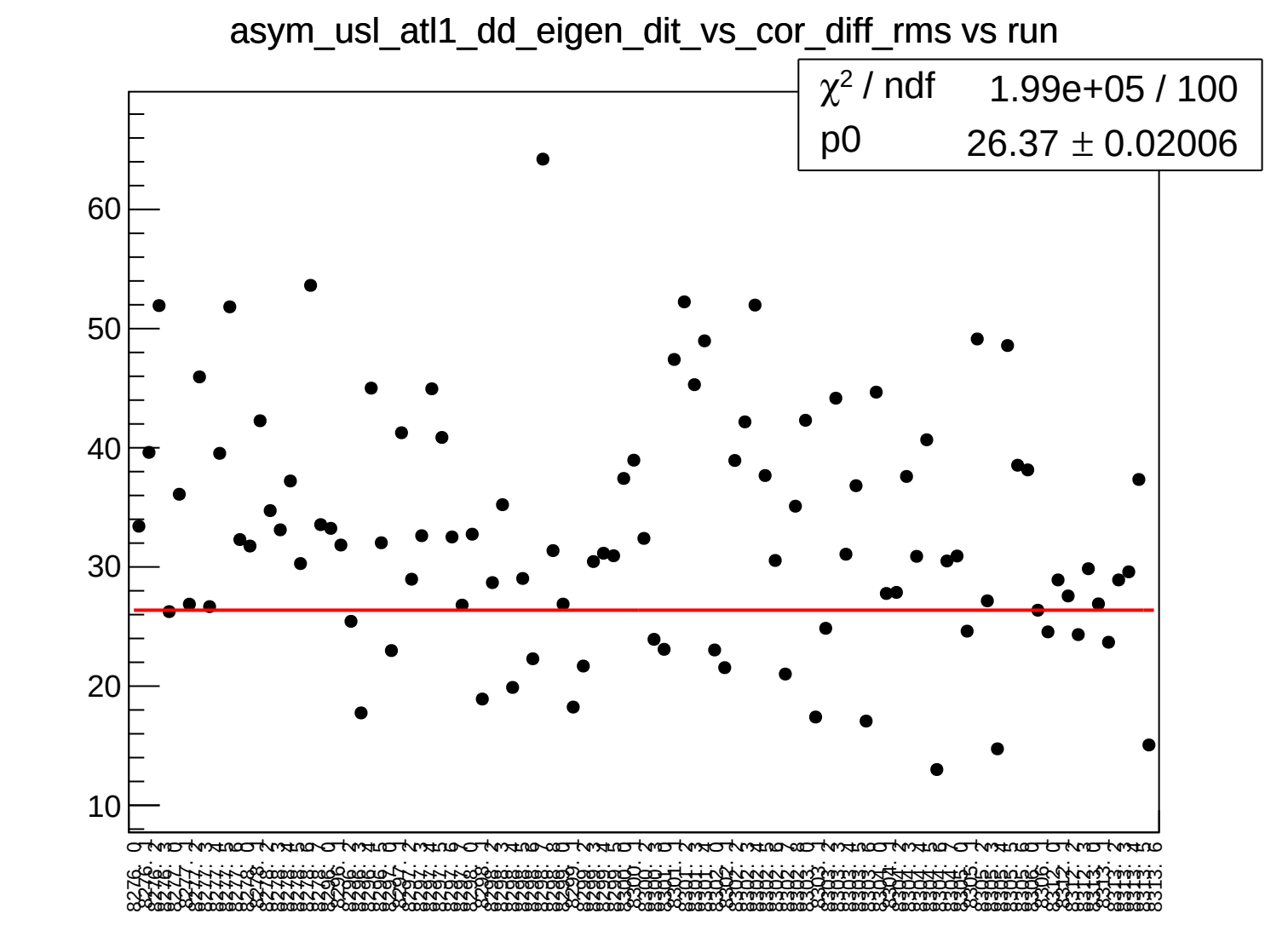

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 110.7 / 100
p0 0.008582 ± 0.02837
pull
Entries 101
Mean 93.83
Std Dev 0
pull1D
Entries 101
Mean −0.06761
Std Dev 1.045

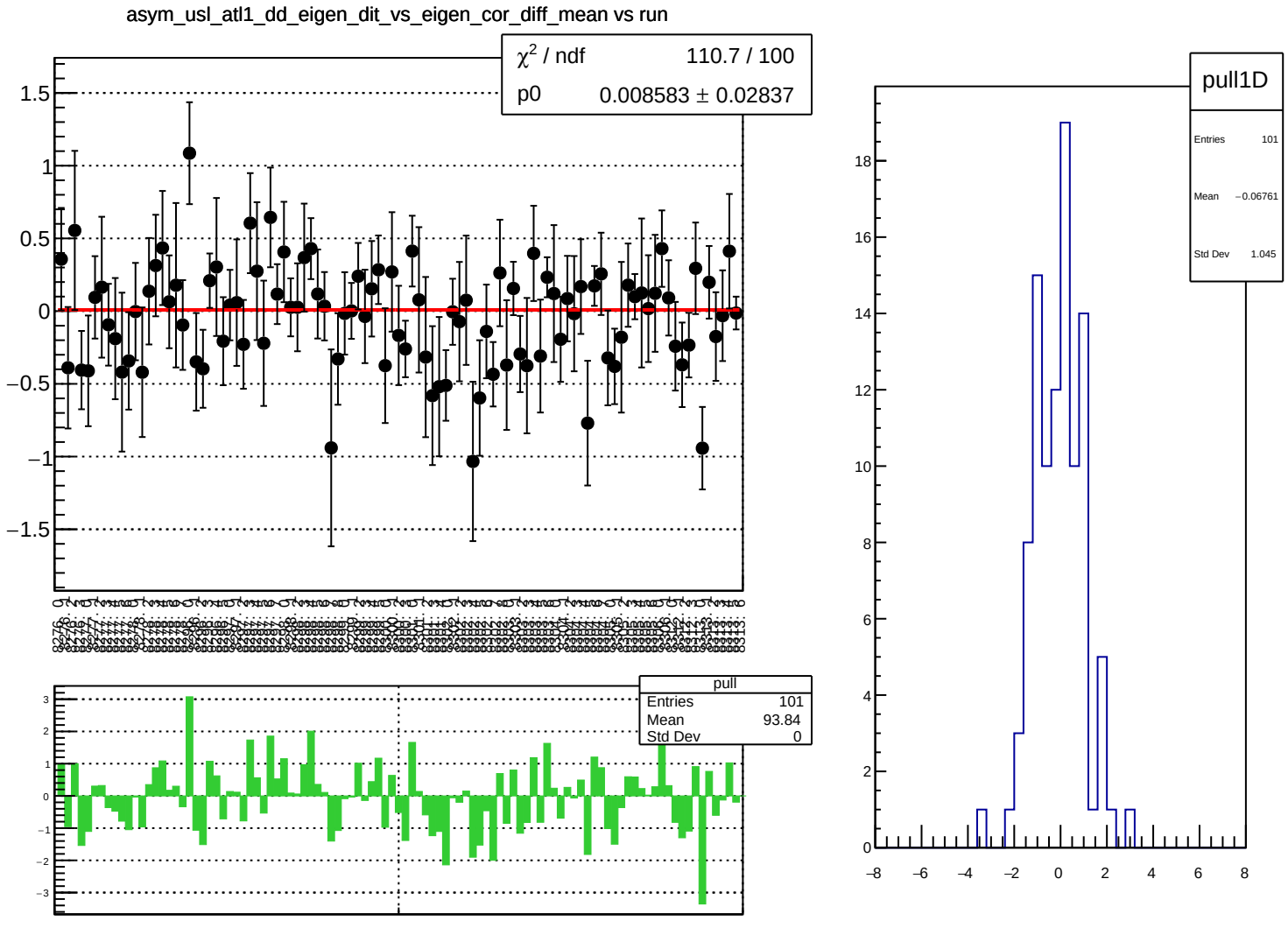

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.99e+05 / 100
p0 26.37 ± 0.02006
60
50
40
30
20
10

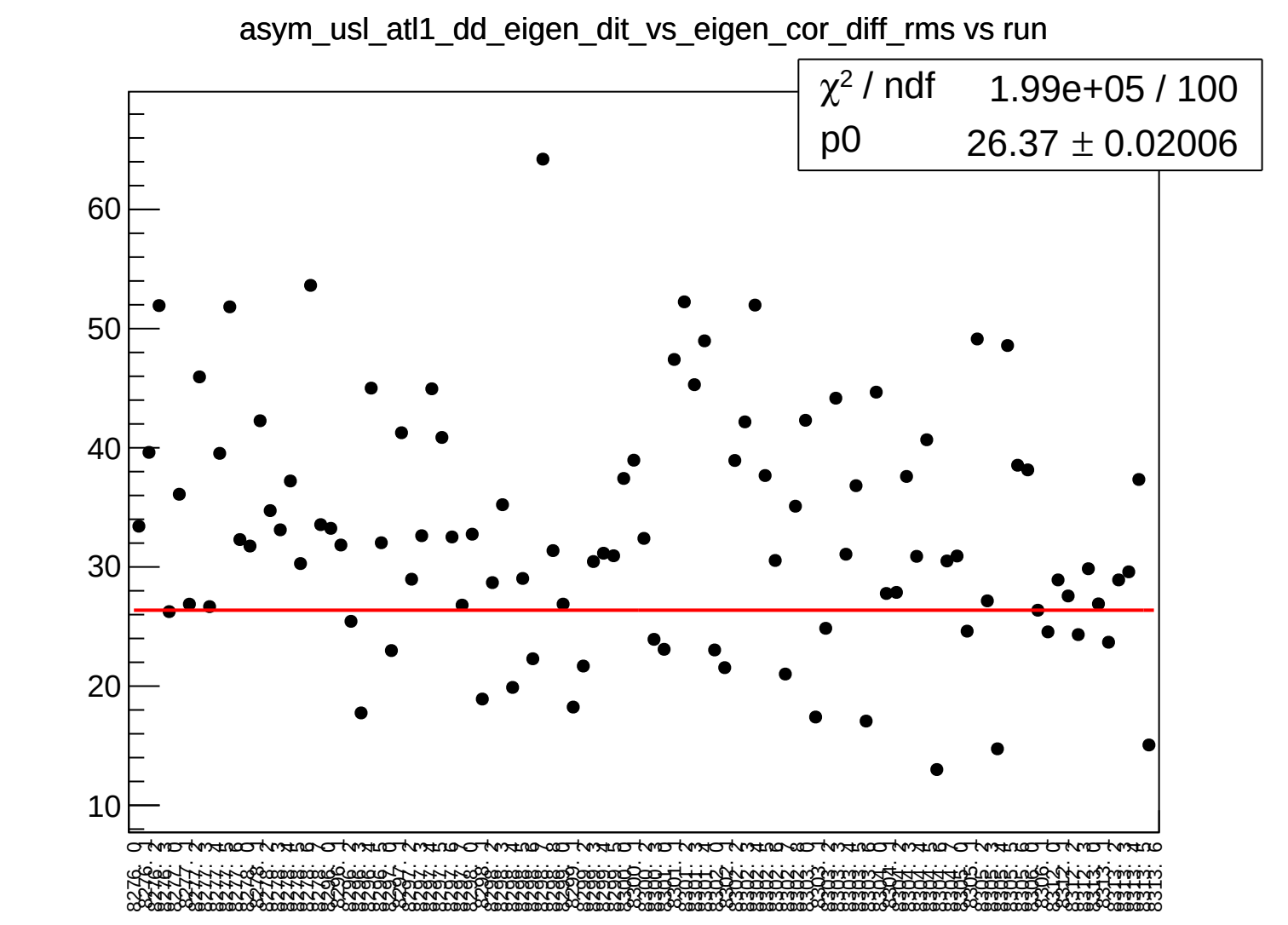

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 102.5 / 100
p0 7.375e−07 ± 1.999e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
pull
Entries 101
Mean −253
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.005414
Std Dev 1.007
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

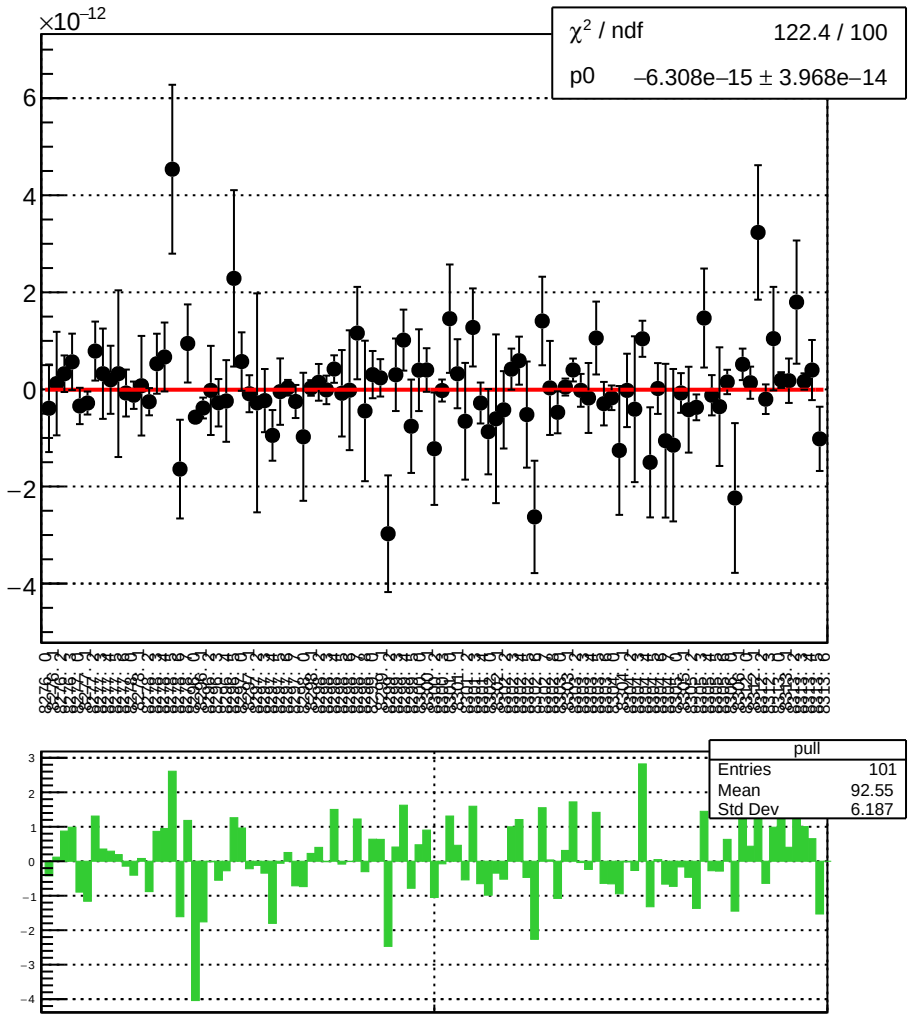

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.255e+05 / 100
p0 0.001898 ± 1.414e−06
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012

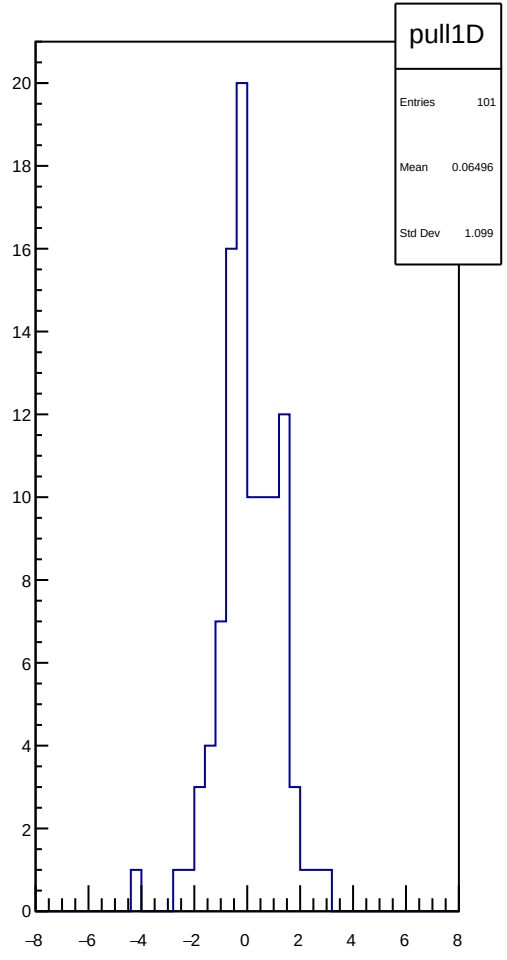

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 110.7 / 100
p0 0.008583 ± 0.02837
pull
Entries 101
Mean 93.84
Std Dev 0
pull1D
Entries 101
Mean −0.06761
Std Dev 1.045

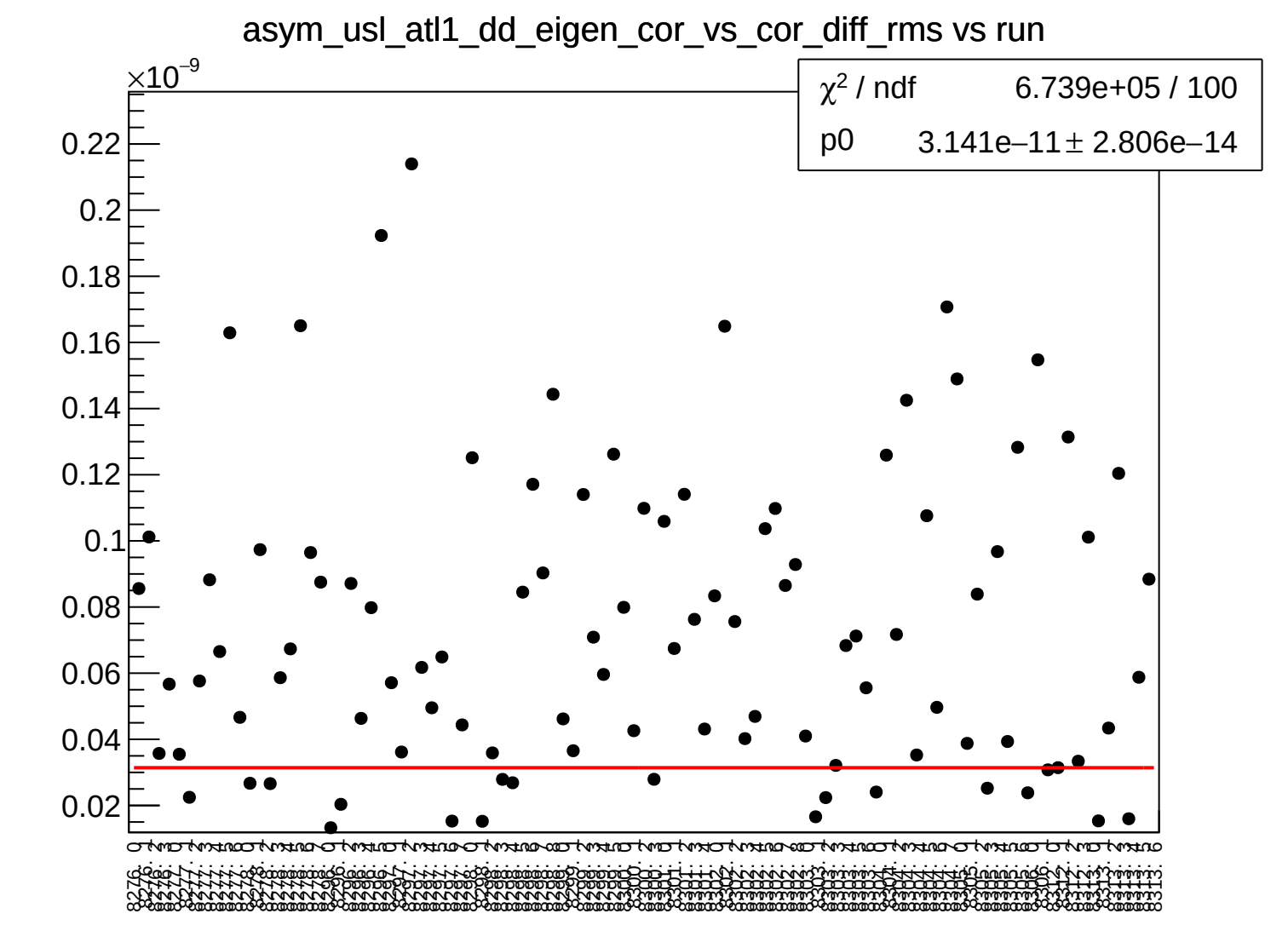

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.99e+05 / 100
p0 26.37 ± 0.02006
60
50
40
30
20
10

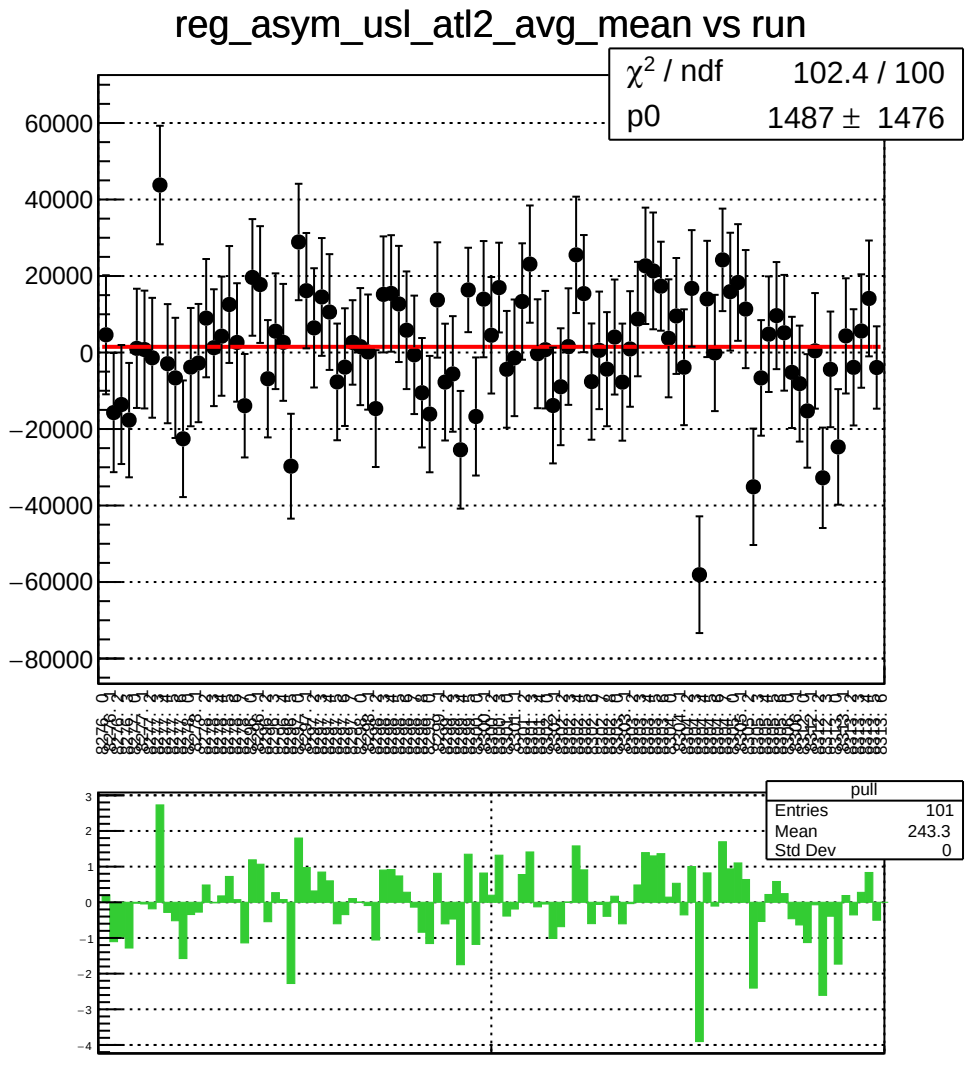

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 110.7 / 100
p0 0.008583 ± 0.02837
pull
Entries 101
Mean 93.84
Std Dev 0
pull1D
Entries 101
Mean −0.06761
Std Dev 1.045

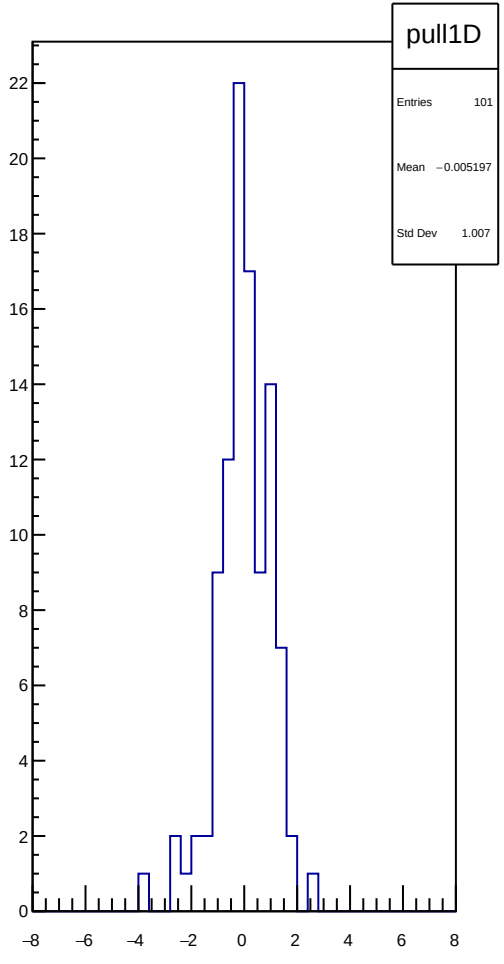

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.99e+05 / 100
p0 26.37 ± 0.02006
60
50
40
30
20
10

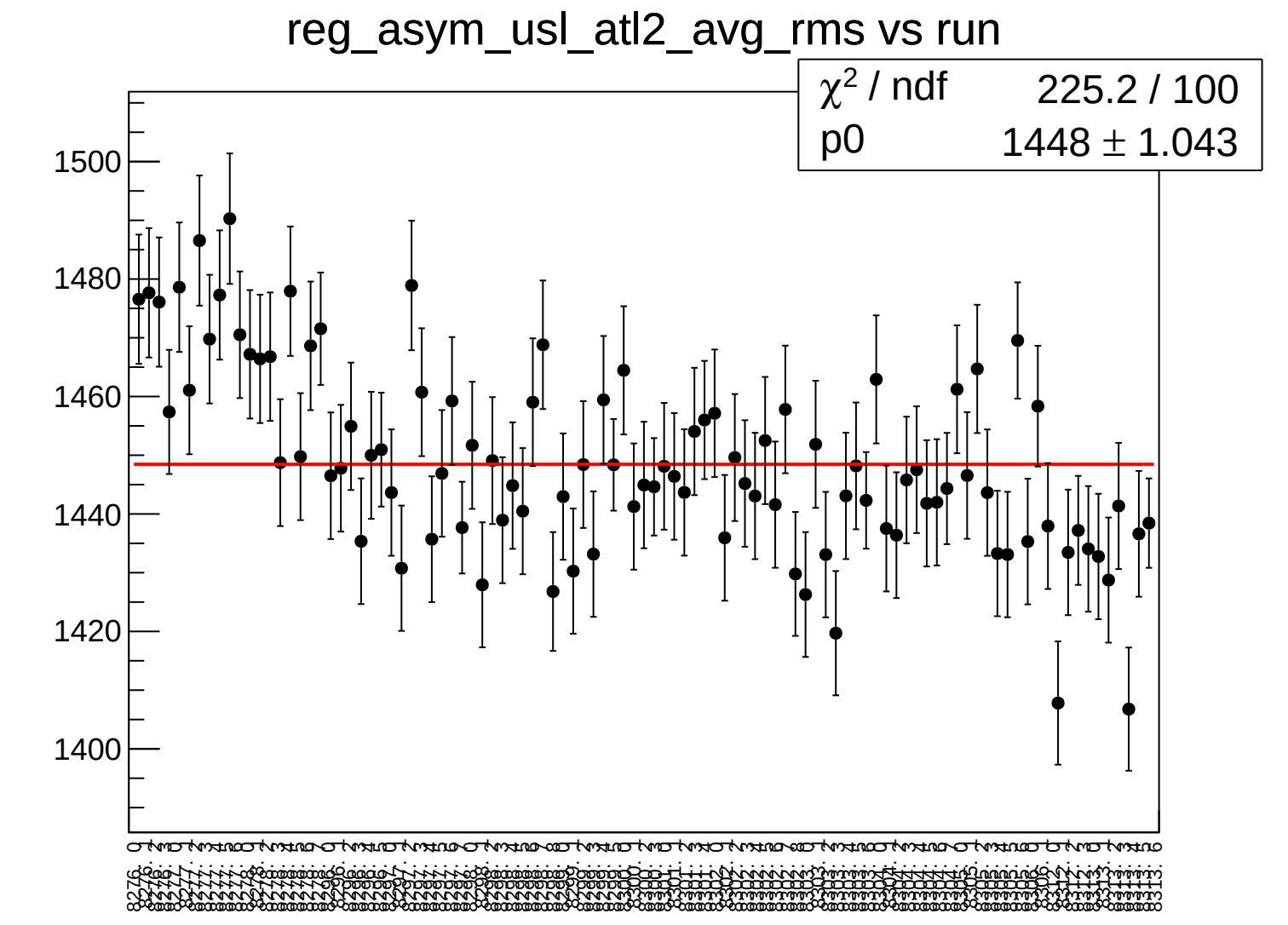

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10^-12
χ² / ndf 122.4 / 100
p0 −6.308e−15 ± 3.968e−14
pull
Entries 101
Mean 92.55
Std Dev 6.187

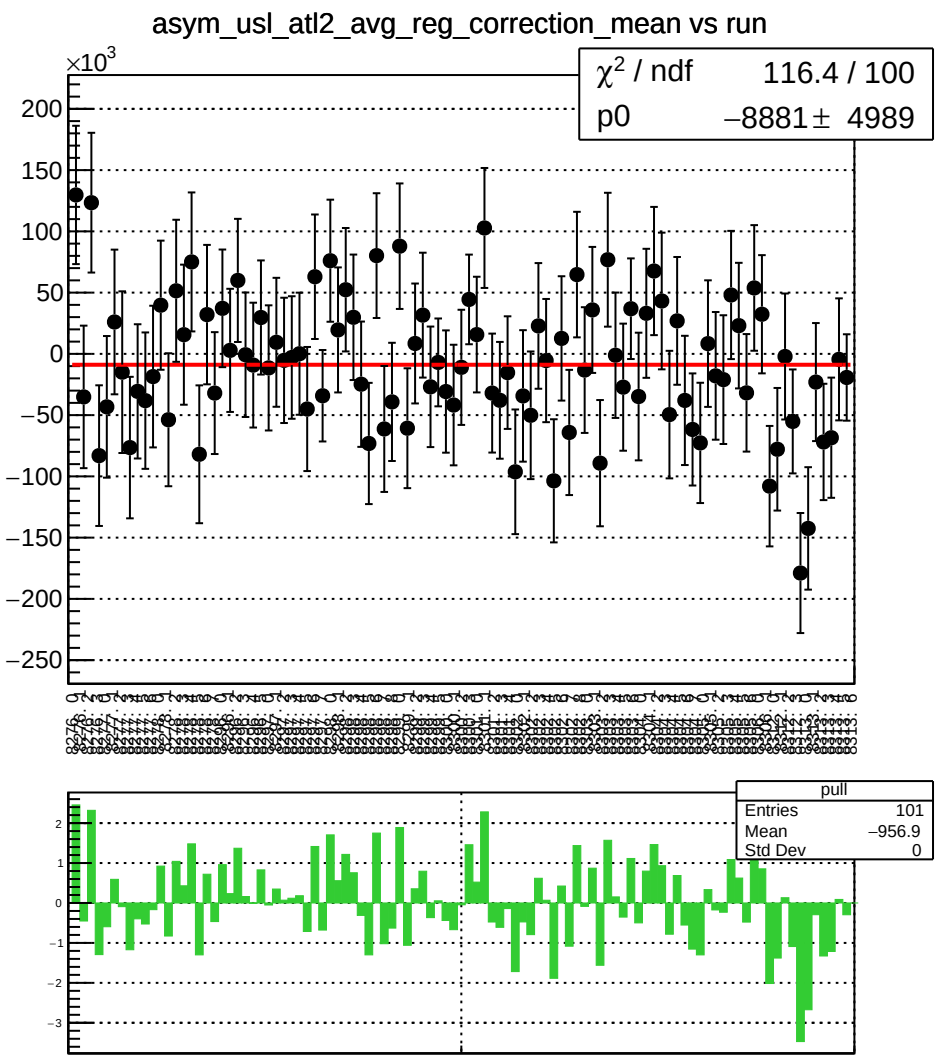

pull1D
Entries 101
Mean 0.06496
Std Dev 1.099

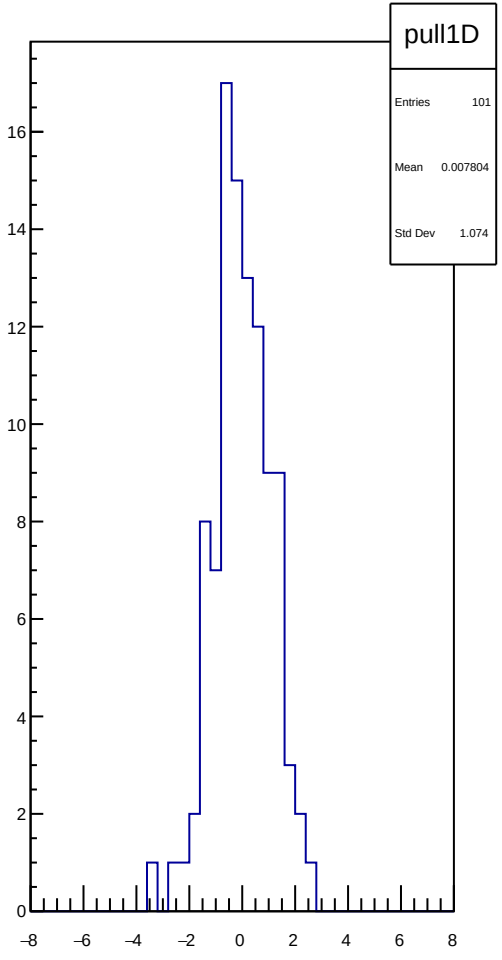

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.739e+05 / 100
p0 3.141e−11 ± 2.806e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

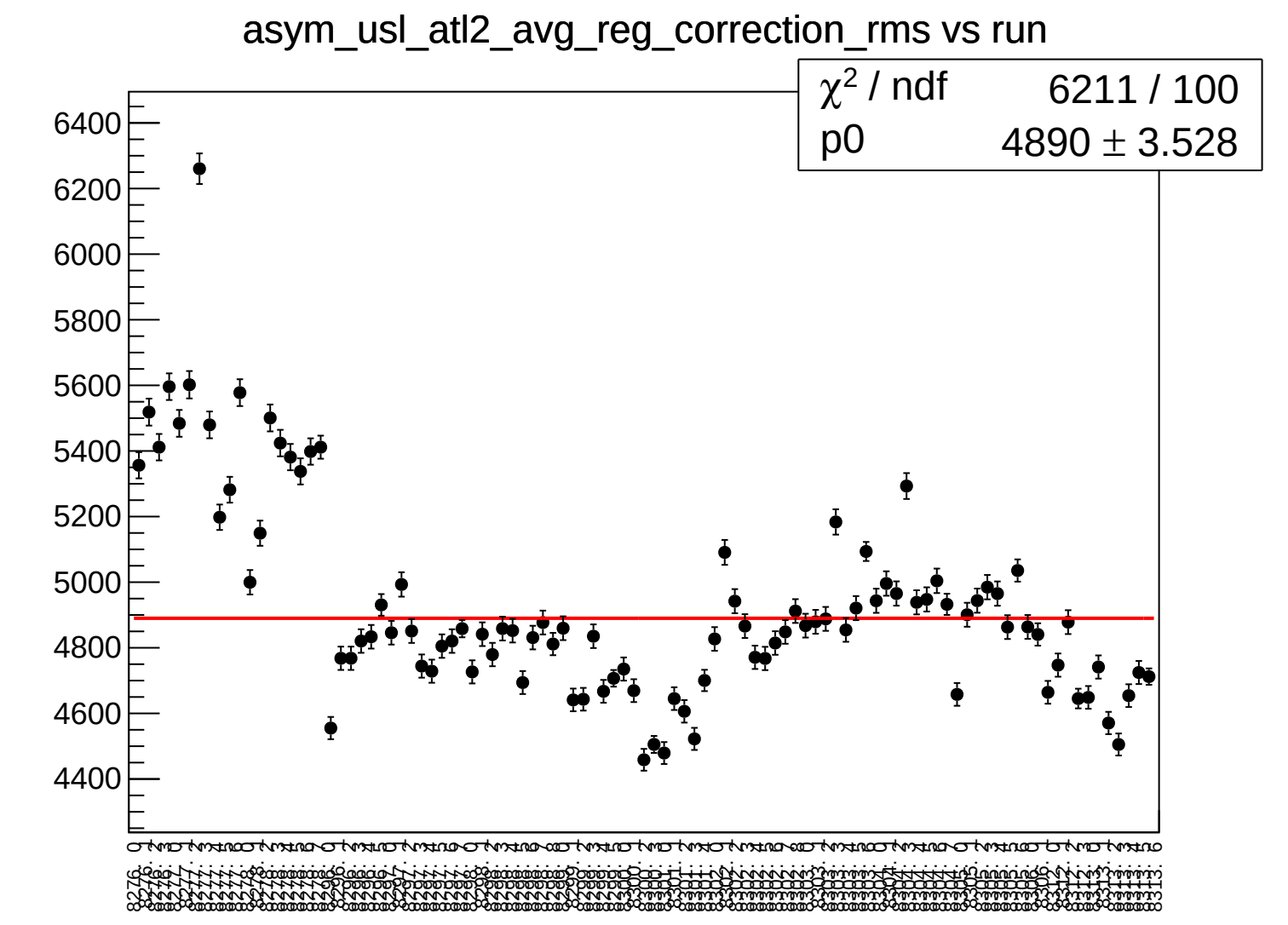

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 102.4 / 100
p0 1487 ± 1476
pull
Entries 101
Mean 243.3
Std Dev 0

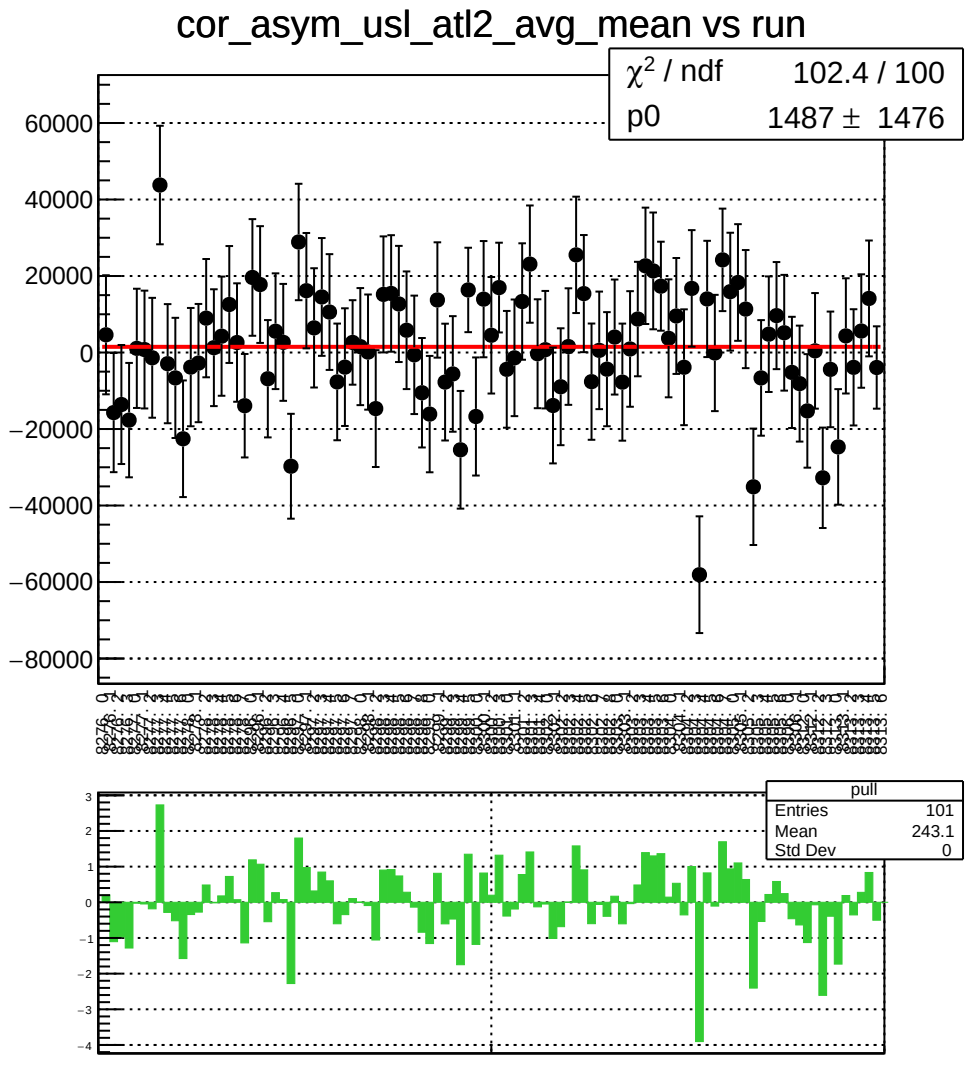

pull1D
Entries 101
Mean −0.005197
Std Dev 1.007

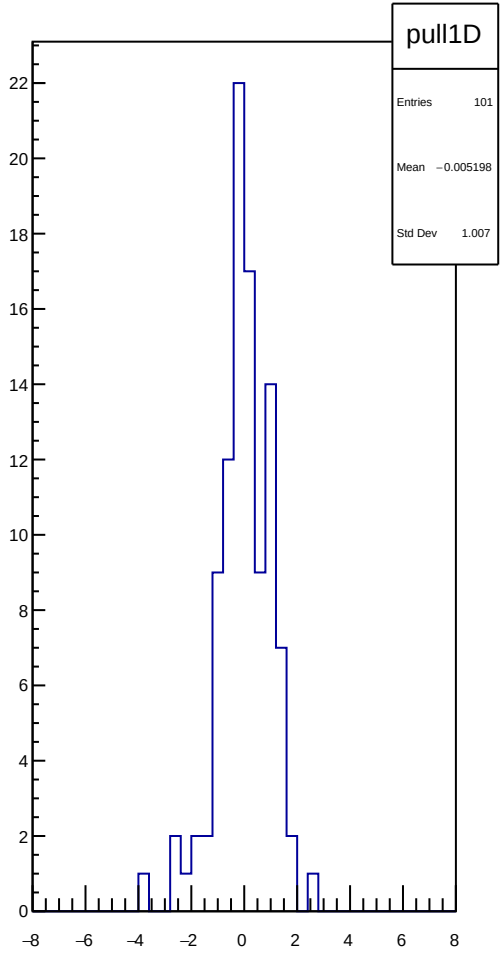

reg_asym_usl_atl2_avg_rms vs run
χ² / ndf 225.2 / 100
p0 1448 ± 1.043
1500
1480
1460
1440
1420
1400

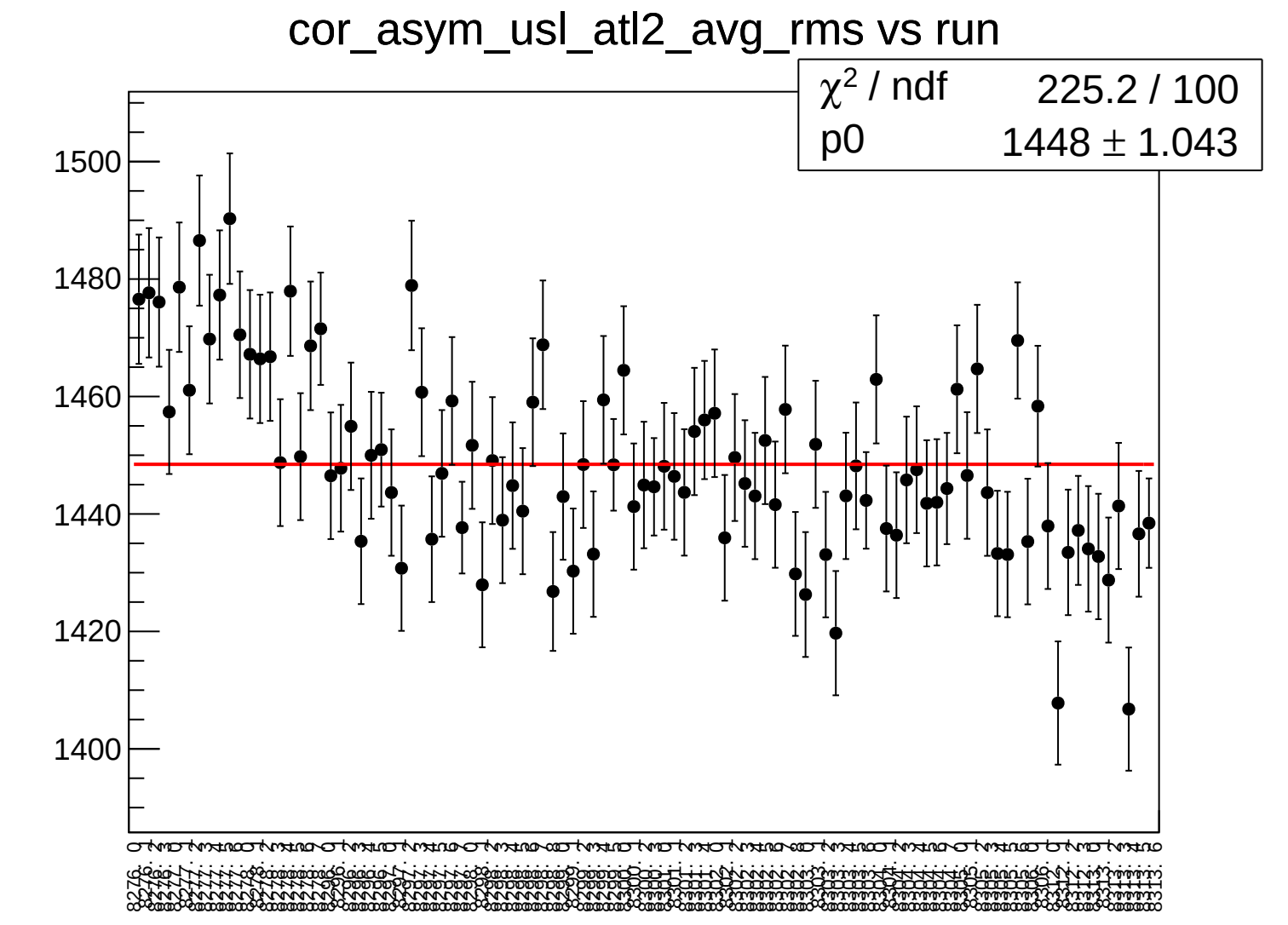

asym_usl_atl2_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 116.4 / 100
p0 −8881 ± 4989
pull
Entries 101
Mean −956.9
Std Dev 0

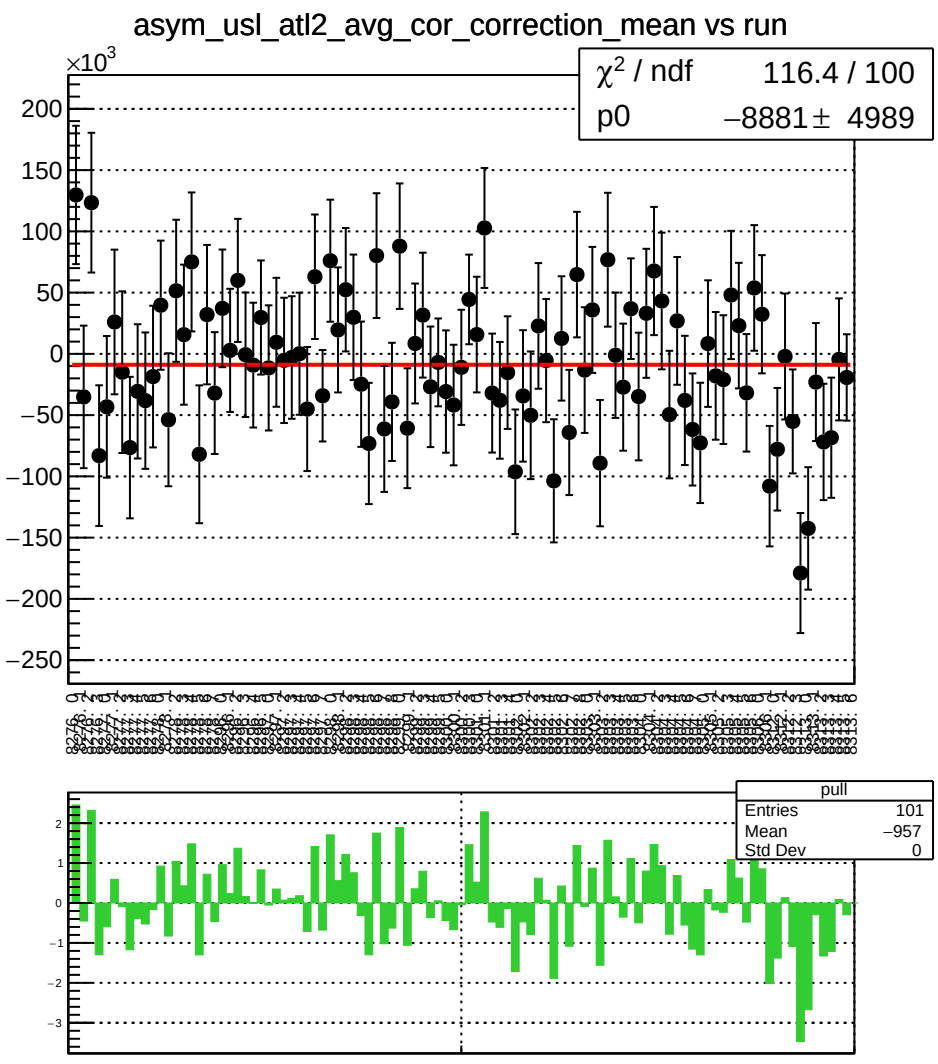

pull1D
Entries 101
Mean 0.007804
Std Dev 1.074

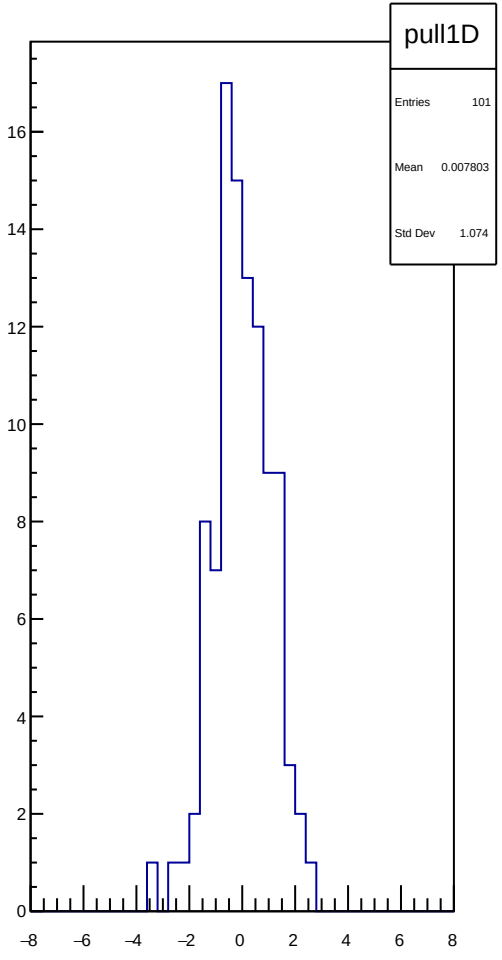

asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 6211 / 100
p0 4890 ± 3.528
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400

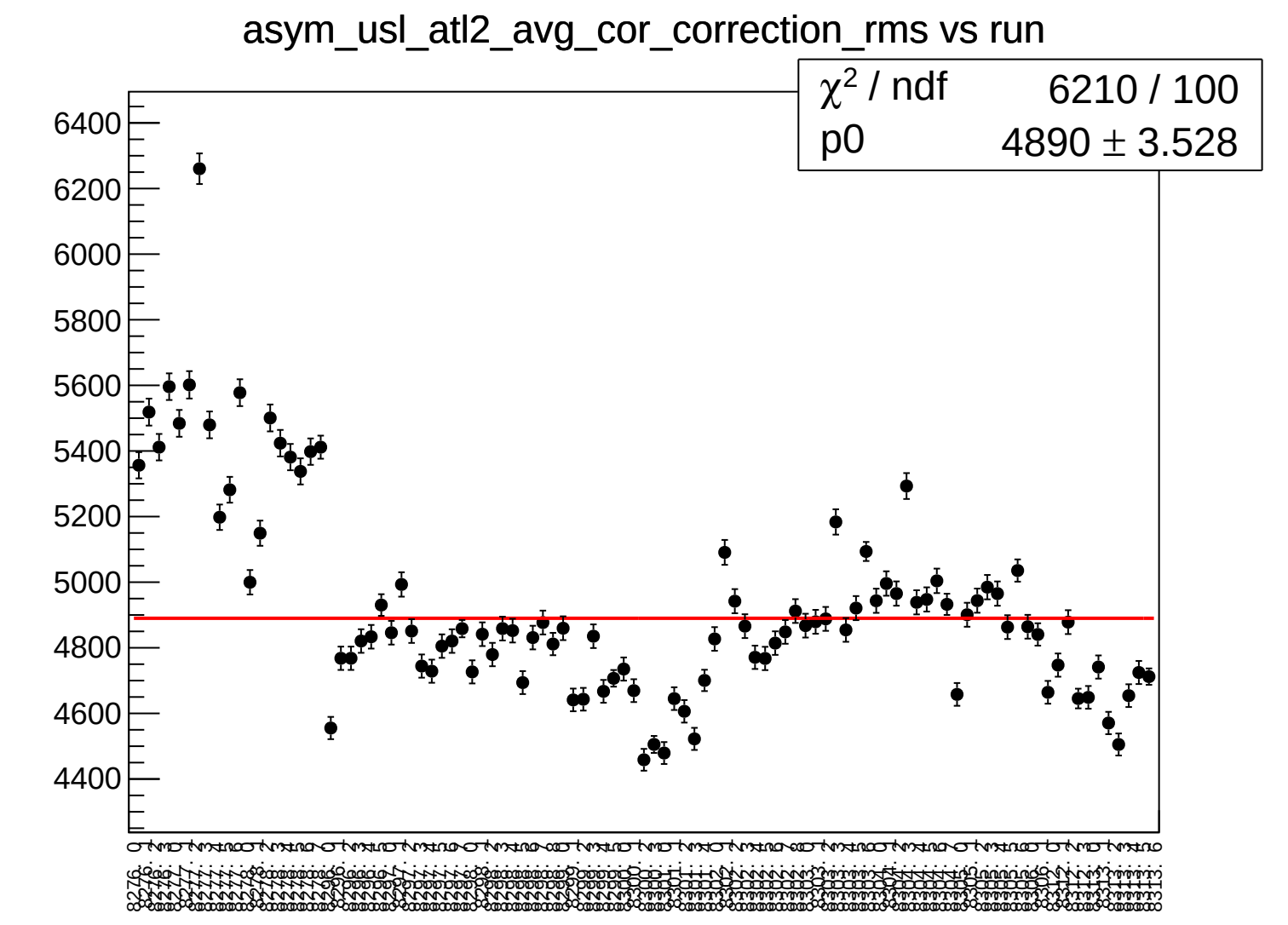

cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 102.4 / 100
p0 1487 ± 1476
pull
Entries 101
Mean 243.1
Std Dev 0

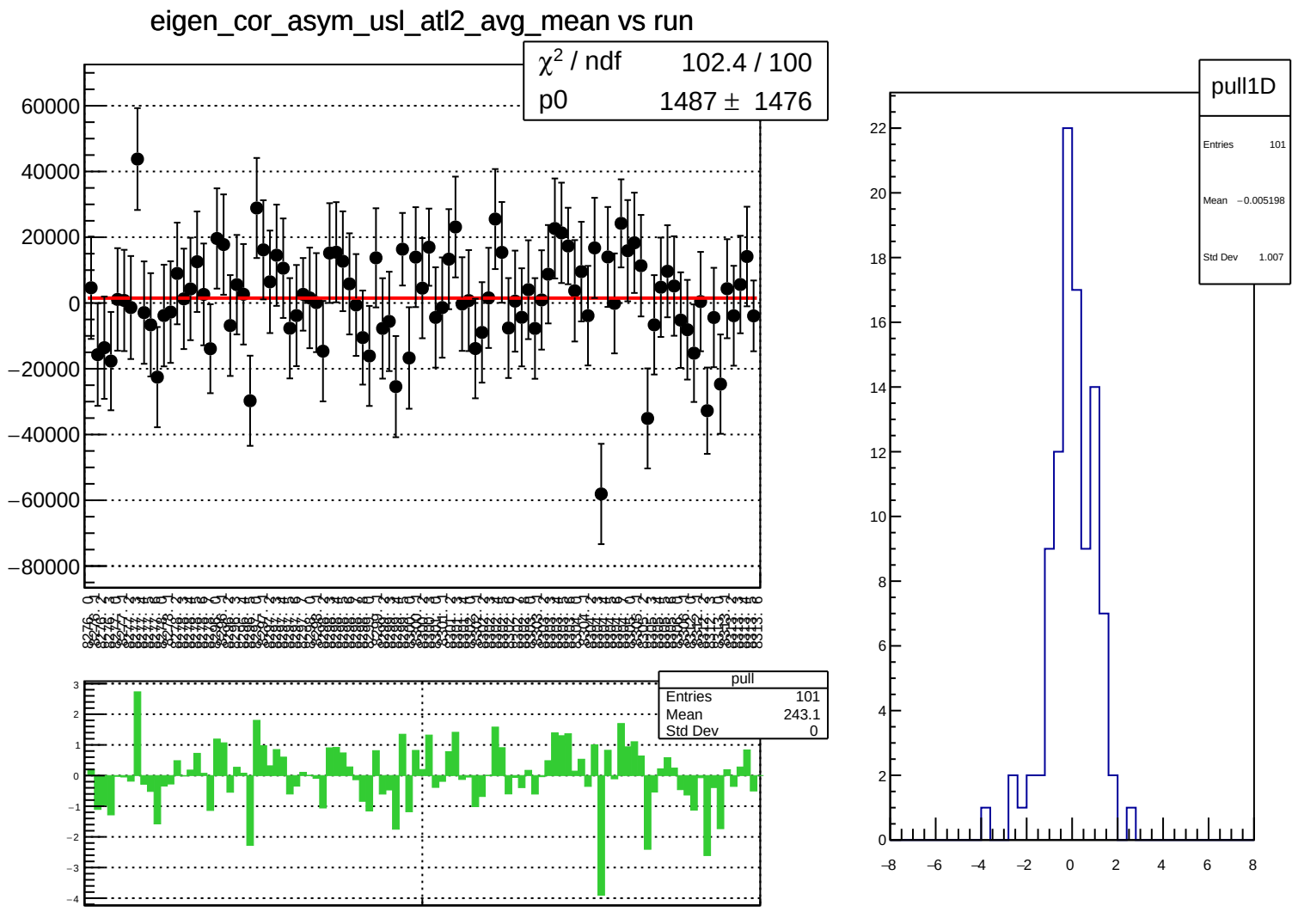

pull1D
Entries 101
Mean −0.005198
Std Dev 1.007

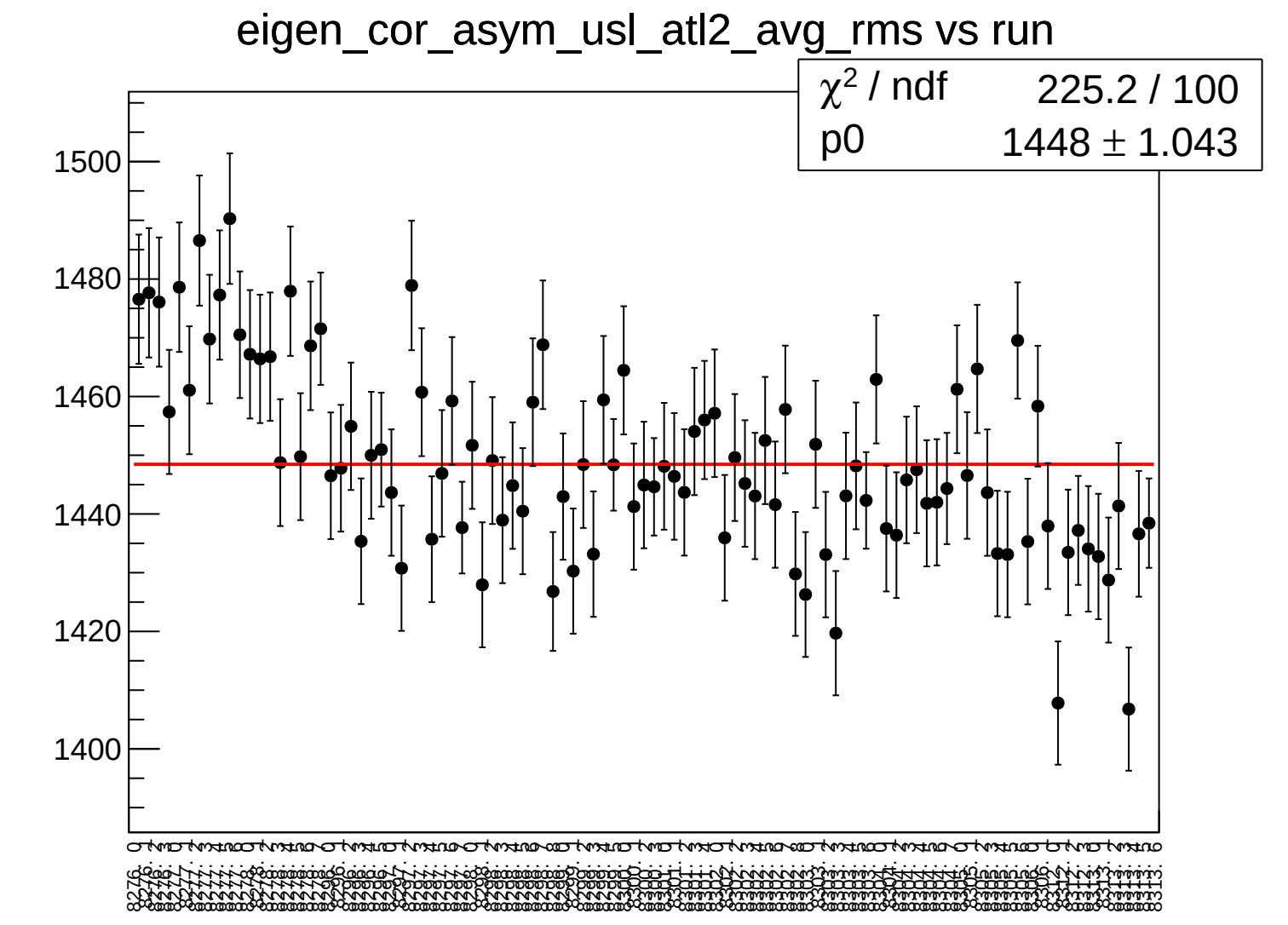

cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 225.2 / 100
p0 1448 ± 1.043
1500
1480
1460
1440
1420
1400

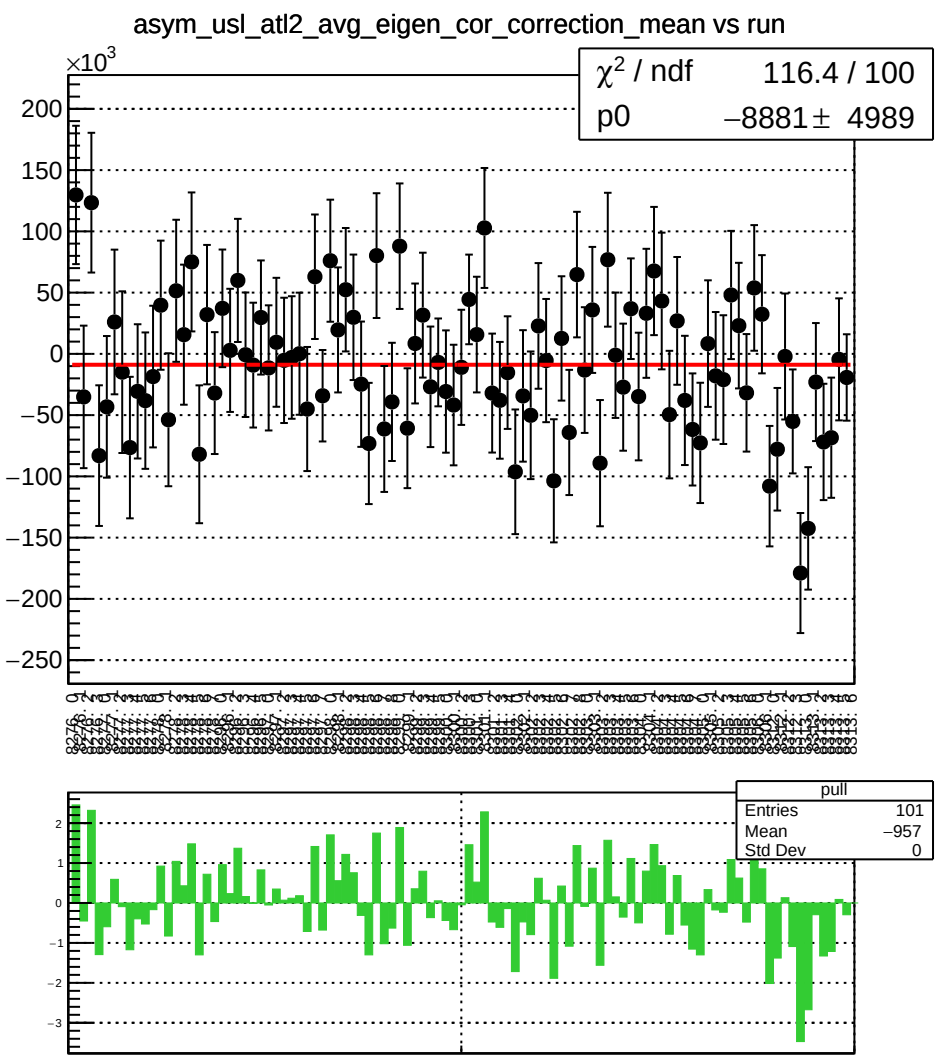

asym_usl_atl2_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 116.4 / 100
p0 −8881 ± 4989
pull
Entries 101
Mean −957
Std Dev 0

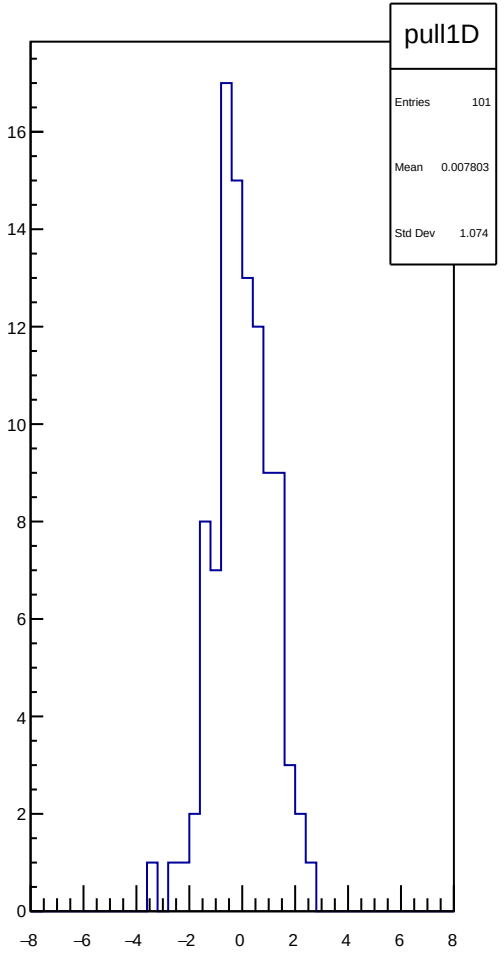

pull1D
Entries 101
Mean 0.007803
Std Dev 1.074

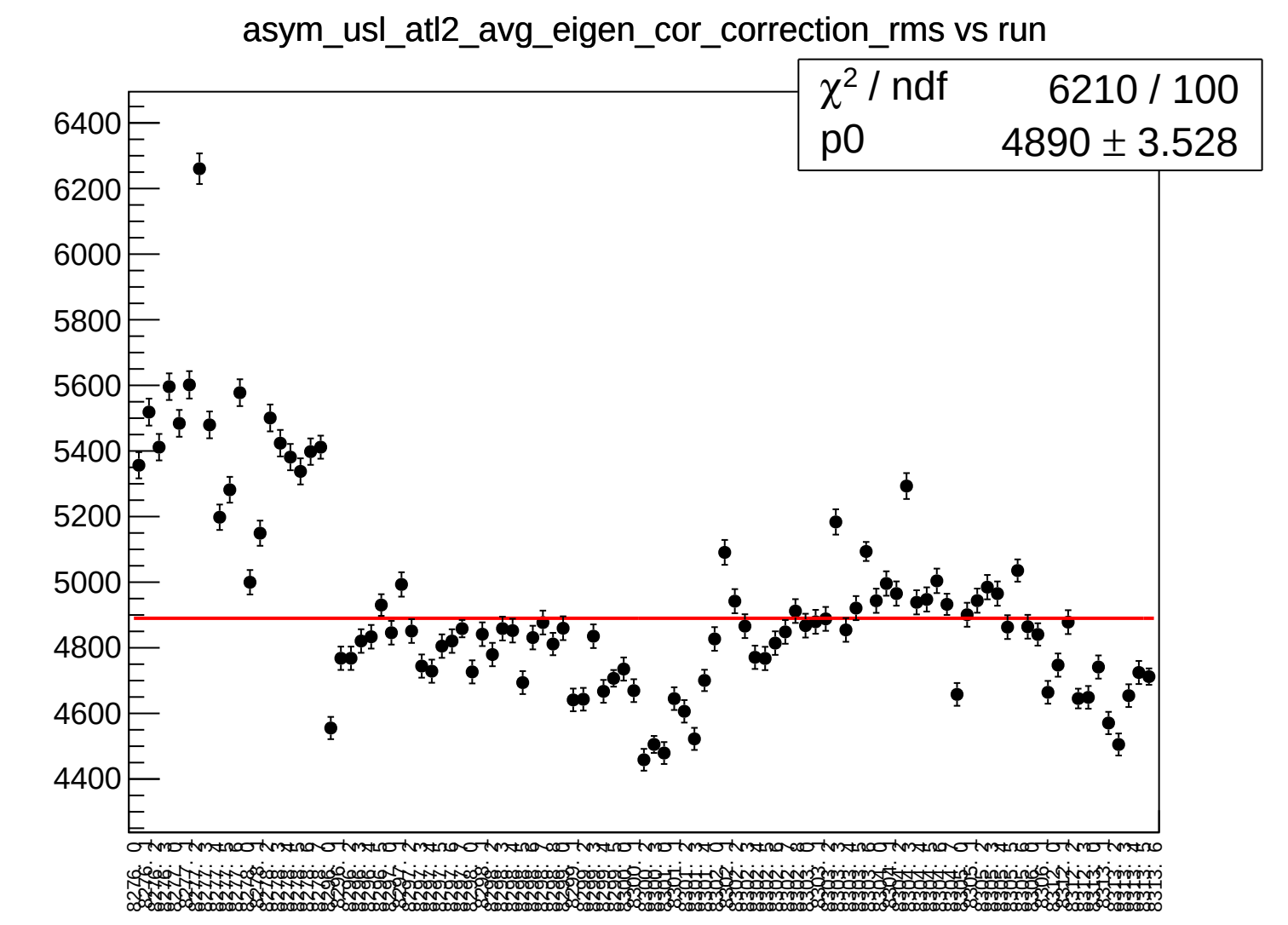

asym_usl_atl2_avg_cor_correction_rms vs run
χ^2 / ndf 6210 / 100
p0 4890 ± 3.528
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400

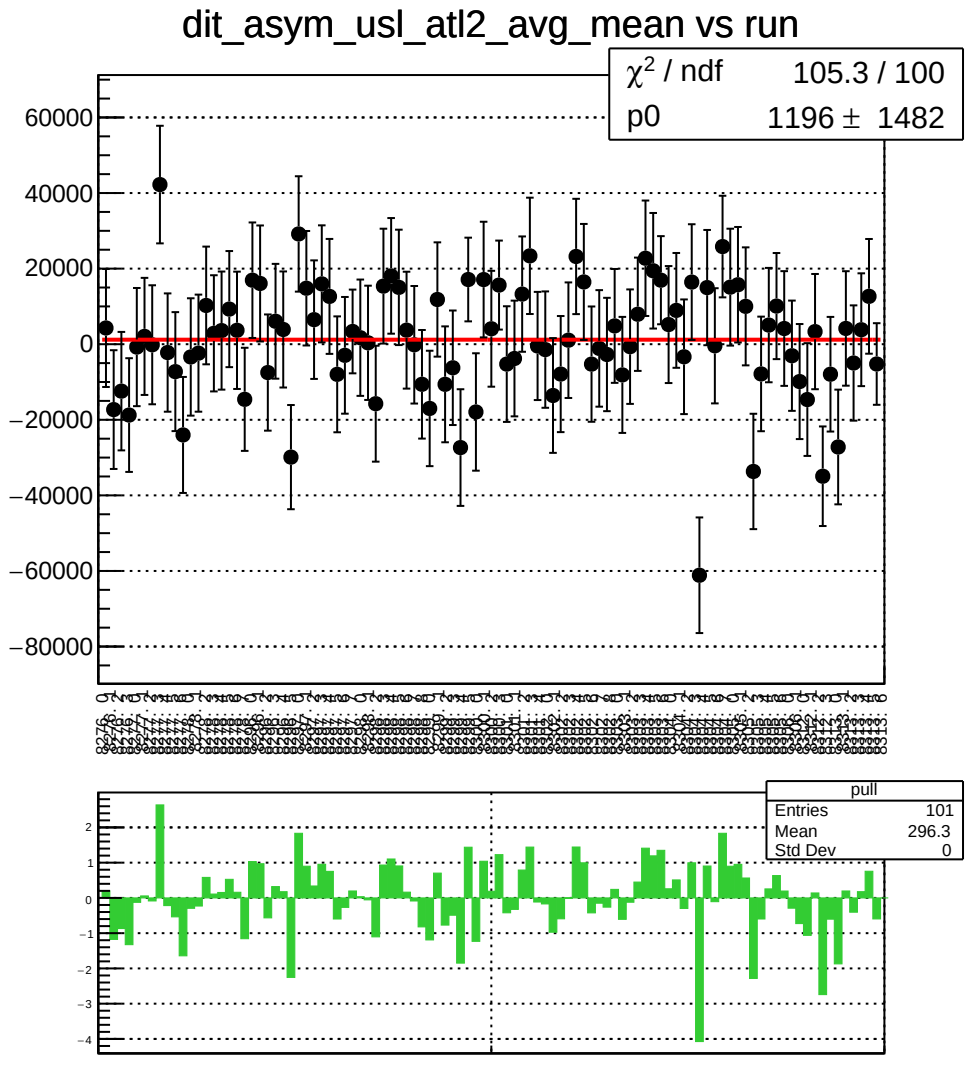

eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 102.4 / 100
p0 1487 ± 1476
pull
Entries 101
Mean 243.1
Std Dev 0
pull1D
Entries 101
Mean −0.005198
Std Dev 1.007

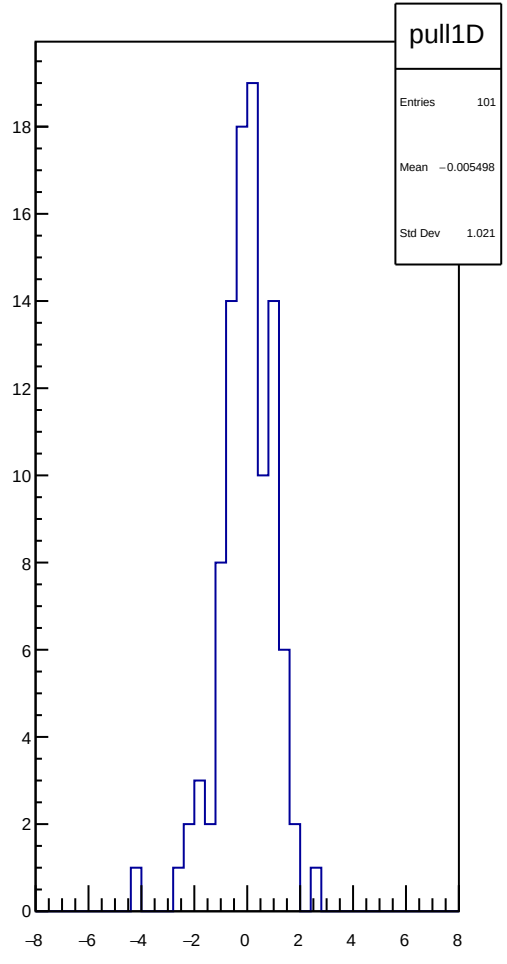

eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 225.2 / 100
p0 1448 ± 1.043
1500
1480
1460
1440
1420
1400

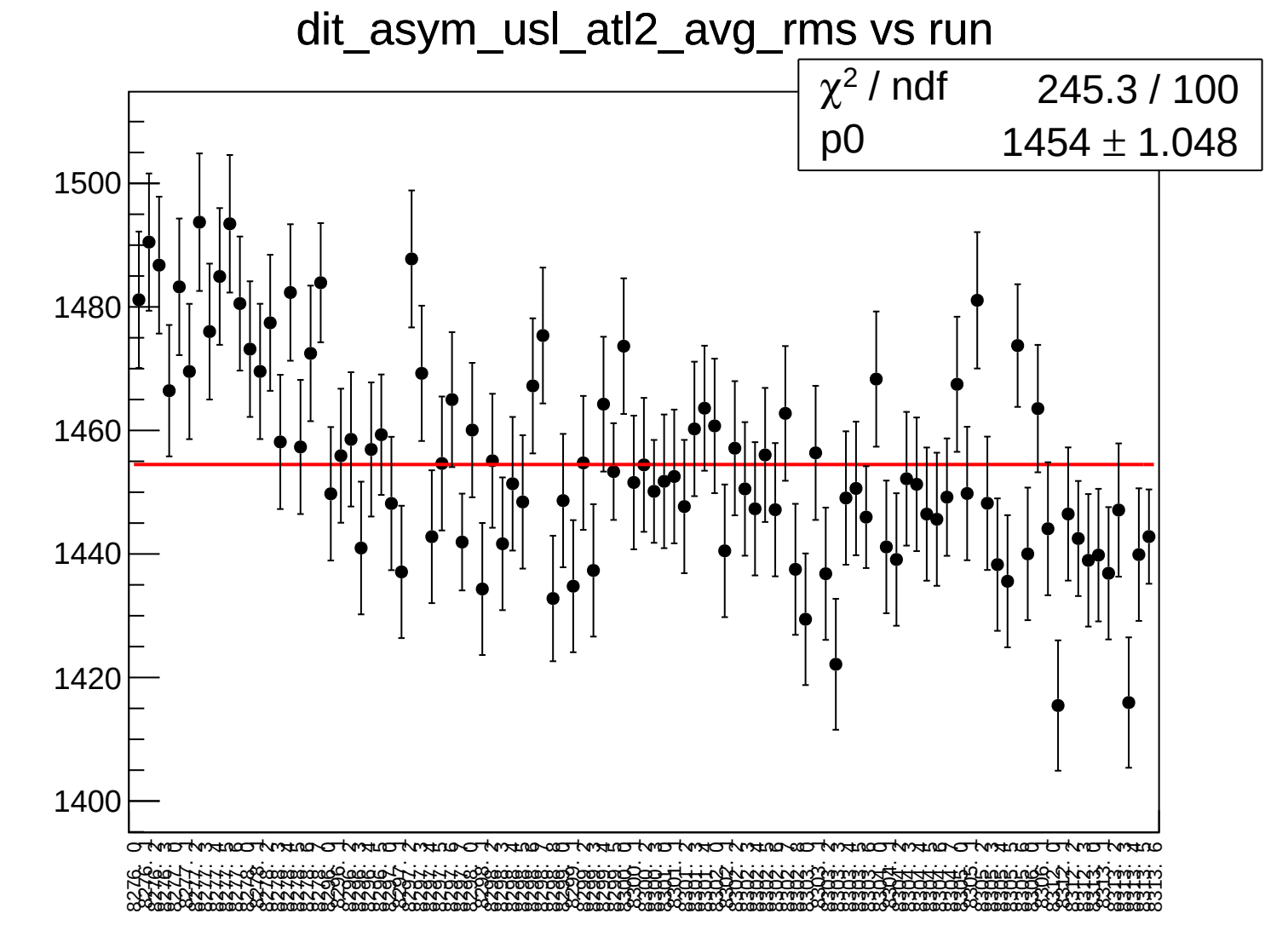

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 116.4 / 100
p0 −8881 ± 4989
pull
Entries 101
Mean −957
Std Dev 0

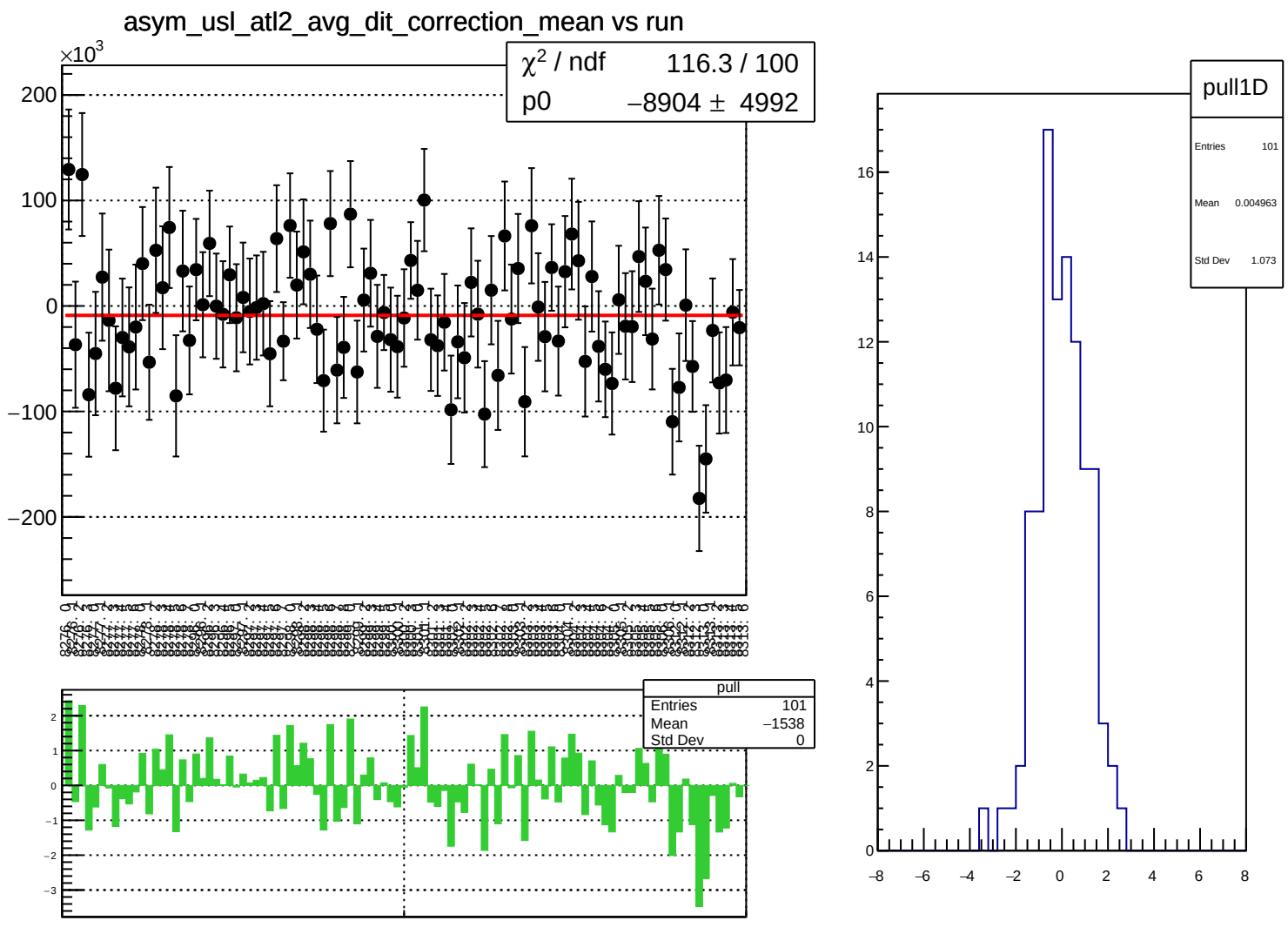

pull1D
Entries 101
Mean 0.007803
Std Dev 1.074

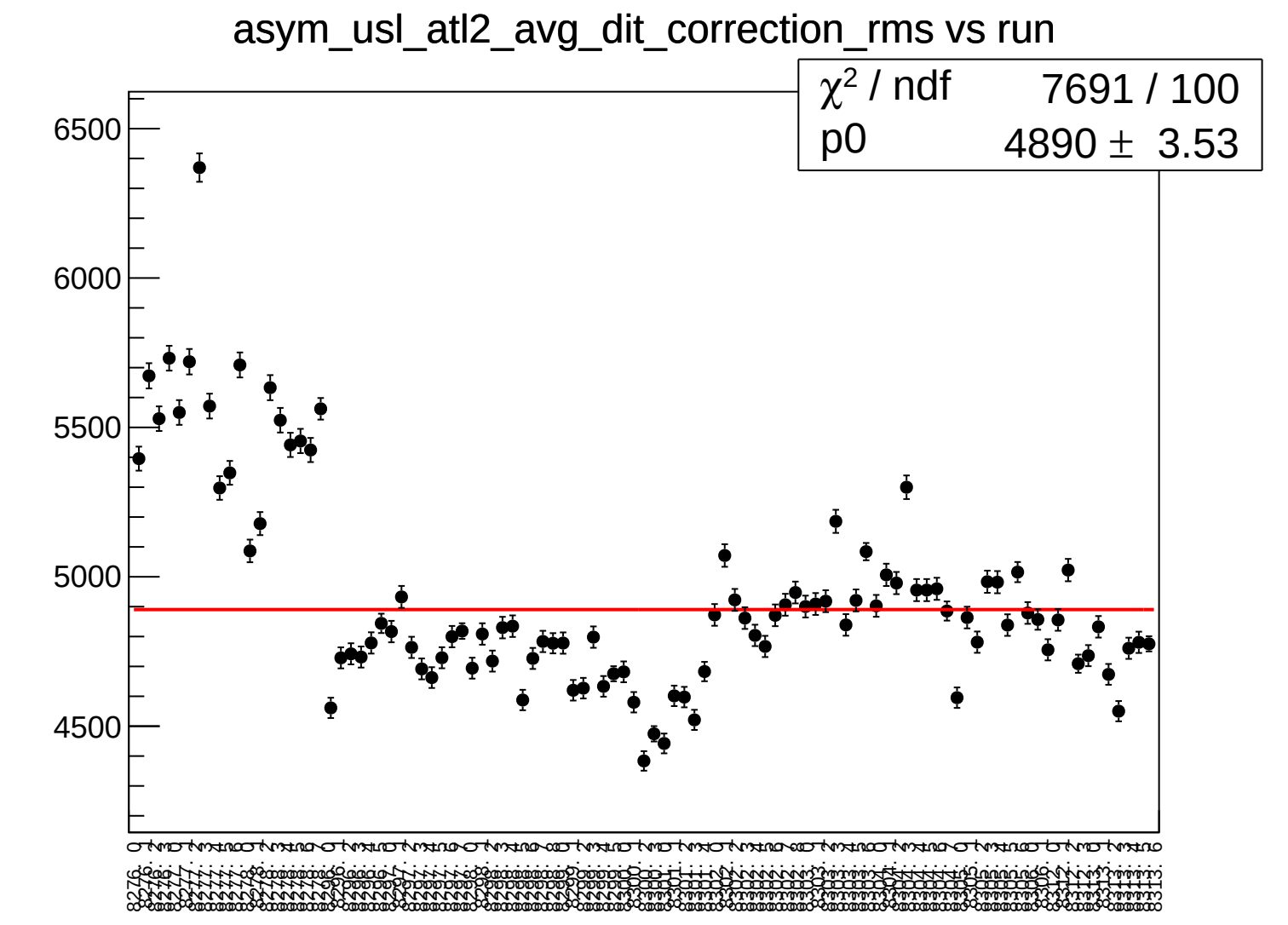

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 6210 / 100
p0 4890 ± 3.528
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400

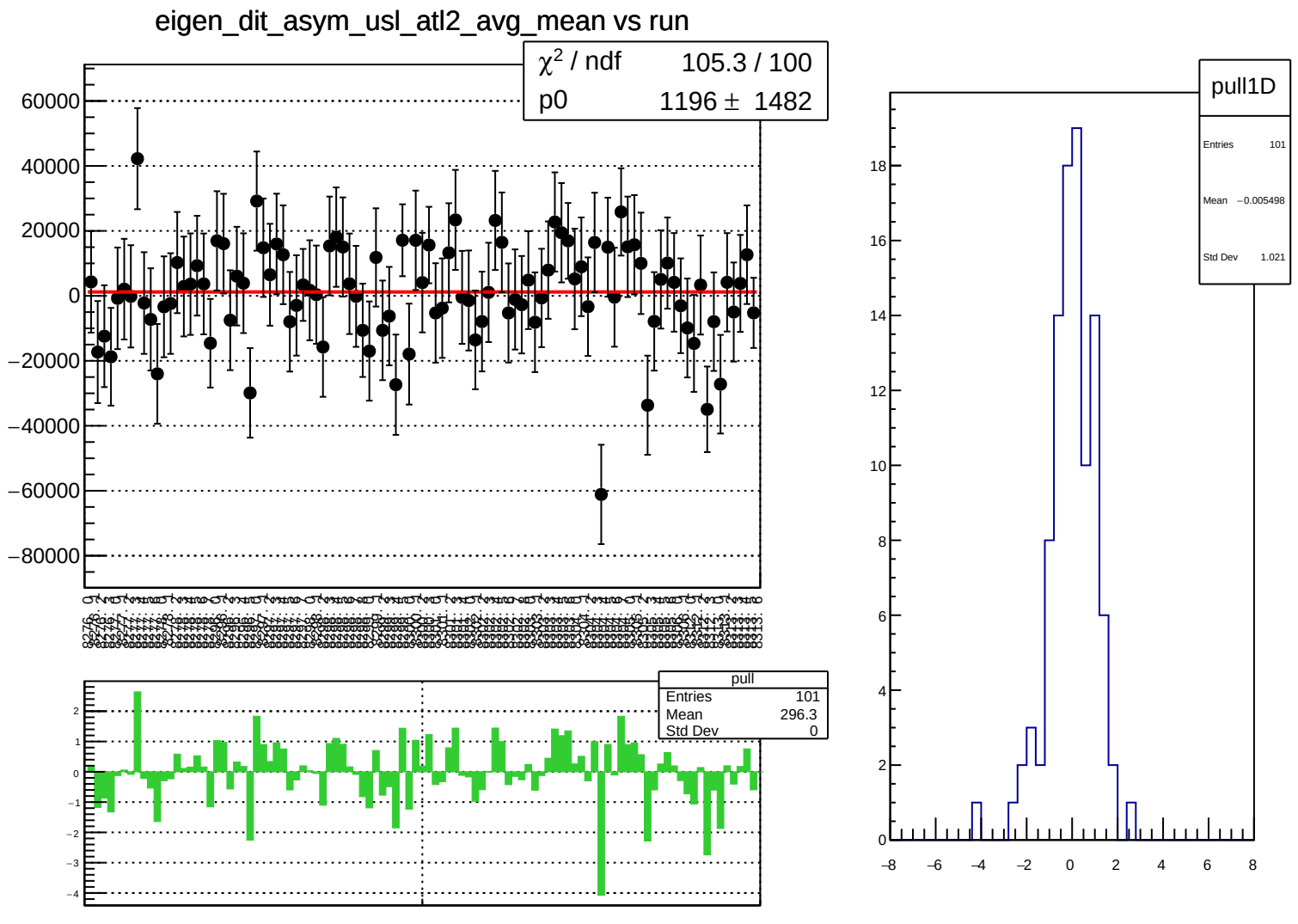

dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 105.3 / 100
p0 1196 ± 1482
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 101
Mean 296.3
Std Dev 0
2
1
0
−1
−2
−3
−4

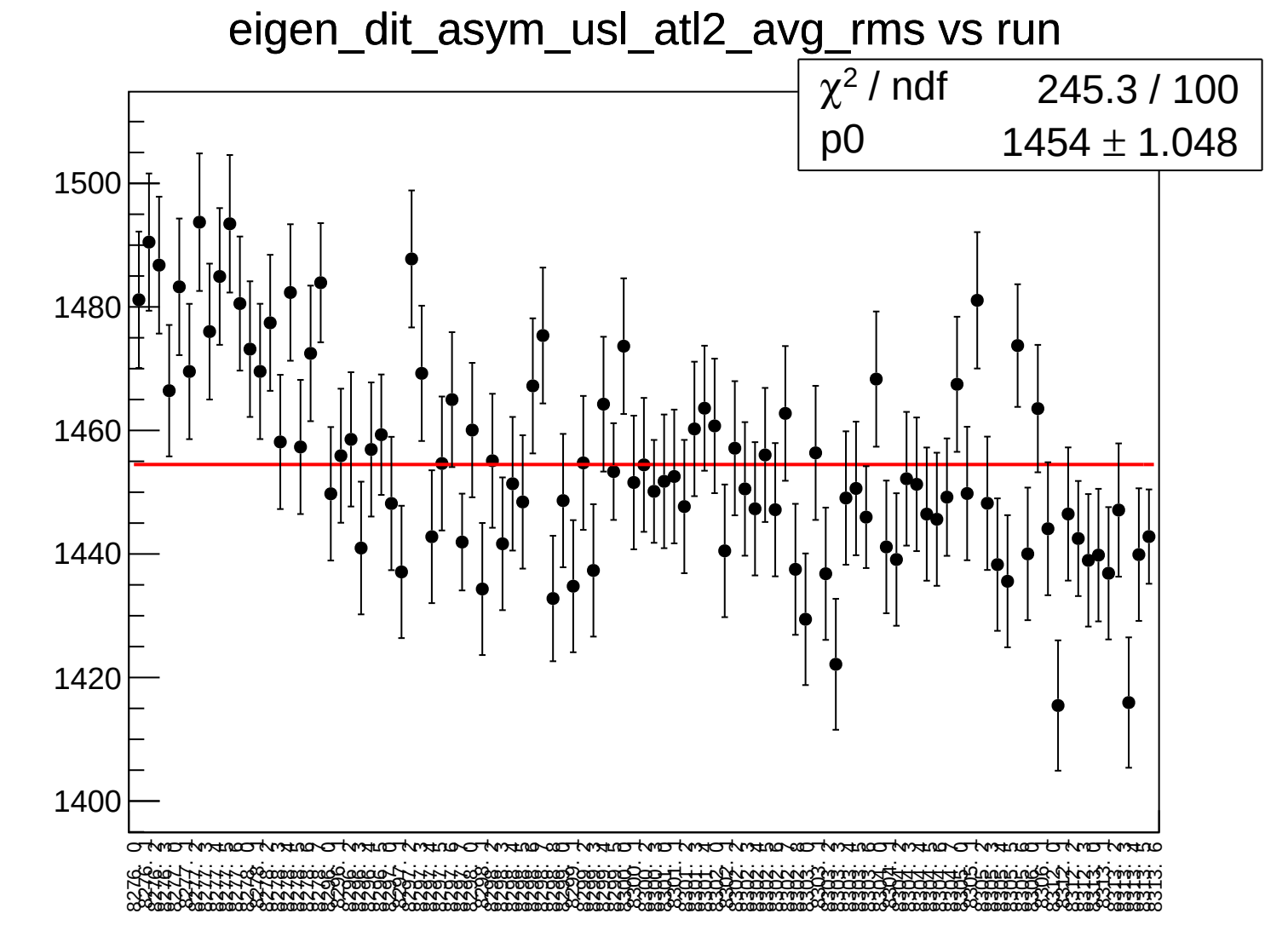

pull1D
Entries 101
Mean −0.005498
Std Dev 1.021
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

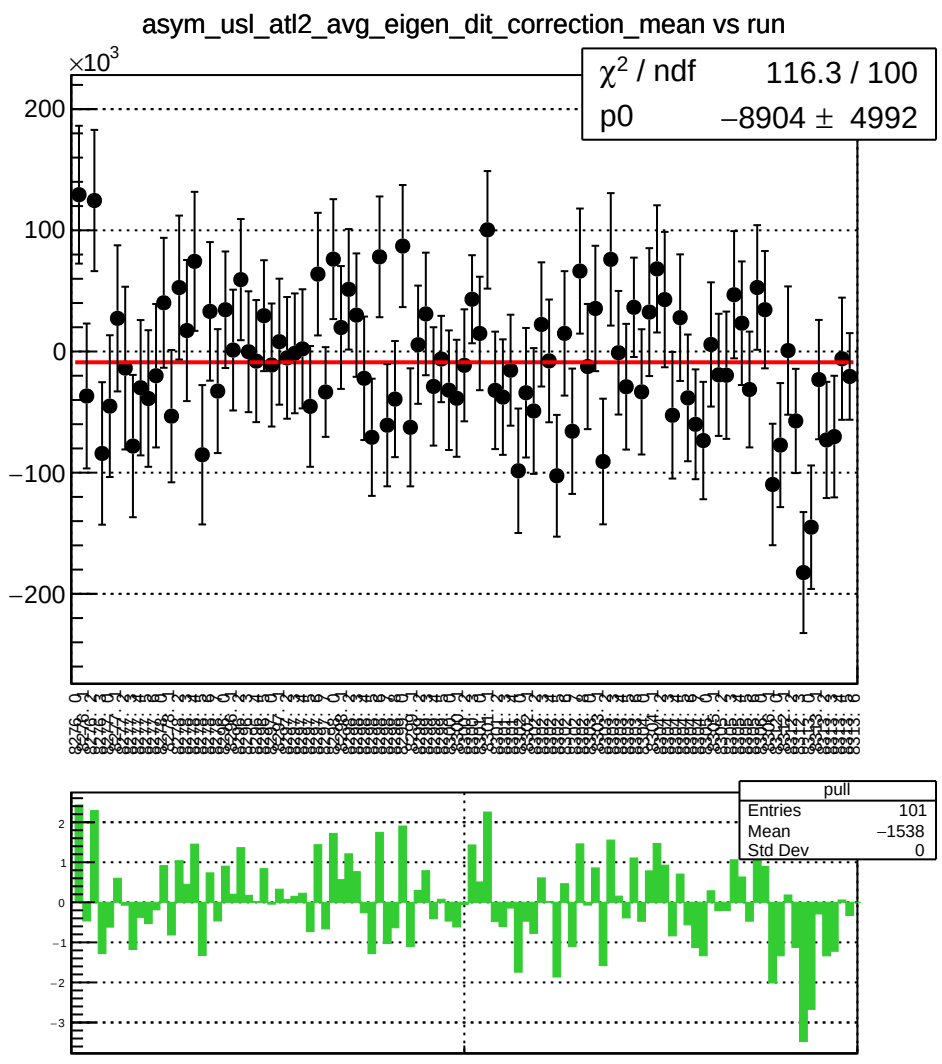

dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 245.3 / 100
p0 1454 ± 1.048
1500
1480
1460
1440
1420
1400

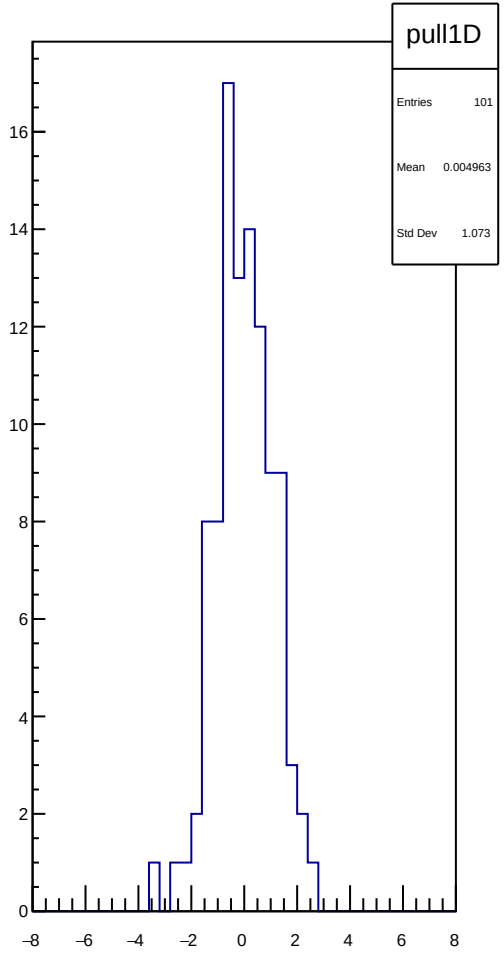

asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 116.3 / 100
p0 −8904 ± 4992
200
100
0
−100
−200
pull
Entries 101
Mean −1538
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.004963
Std Dev 1.073
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

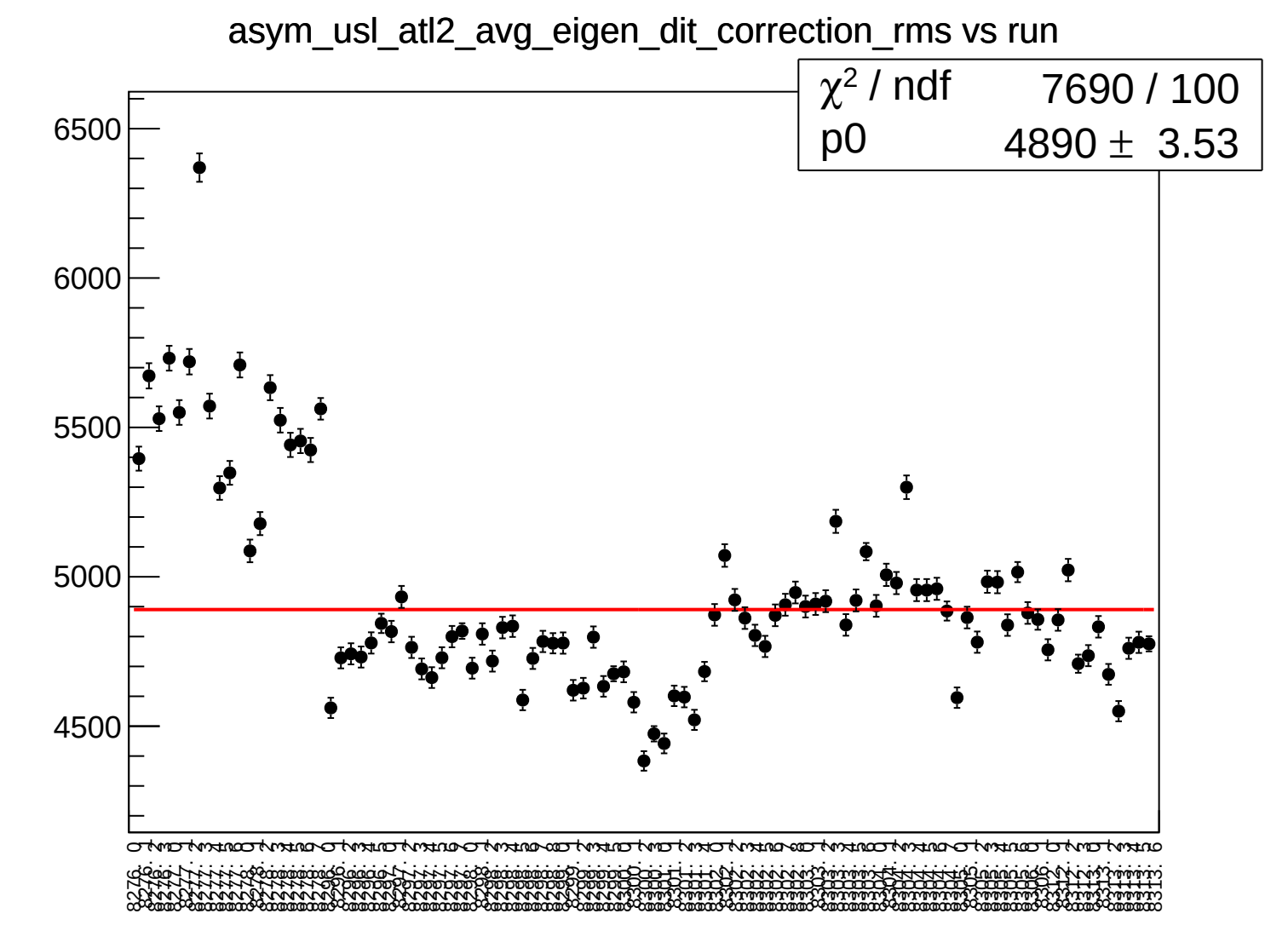

asym_usl_atl2_avg_dit_correction_rms vs run
χ² / ndf 7691 / 100
p0 4890 ± 3.53
6500
6000
5500
5000
4500

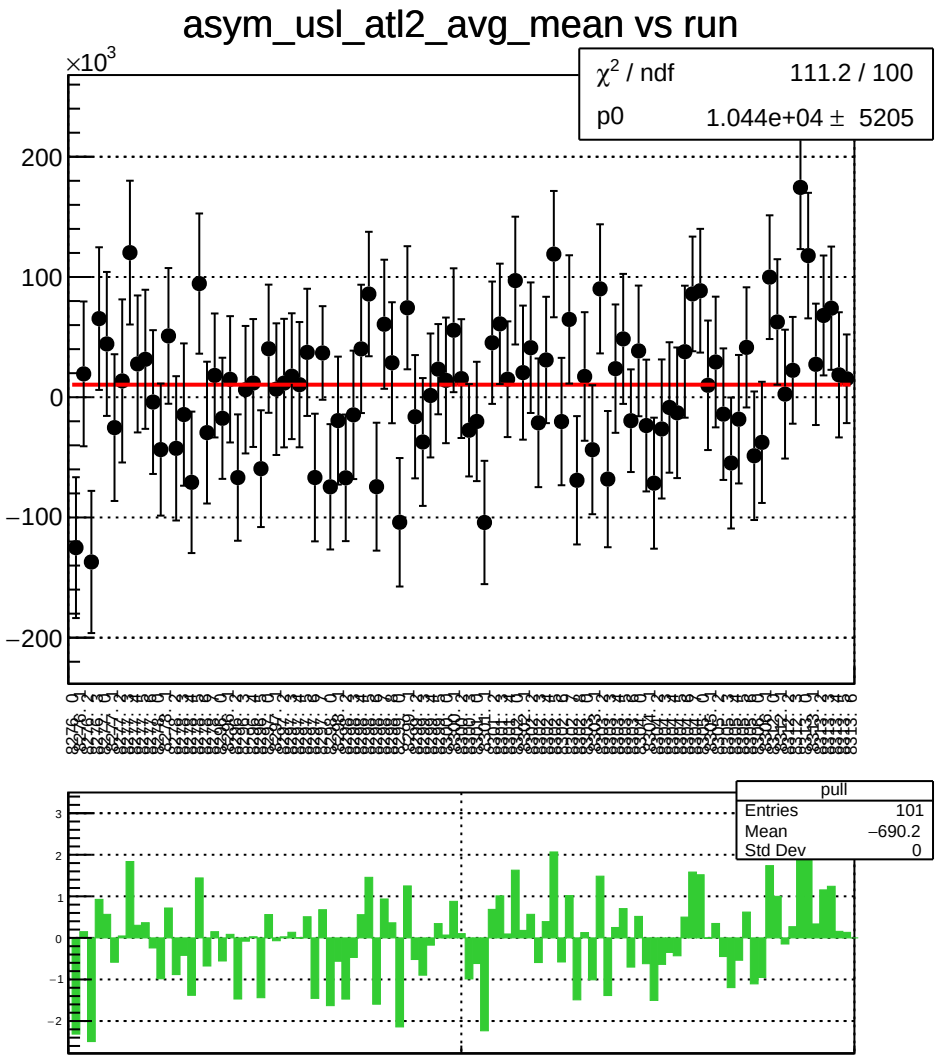

eigen_dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 105.3 / 100
p0 1196 ± 1482
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 101
Mean 296.3
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 101
Mean −0.005498
Std Dev 1.021
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

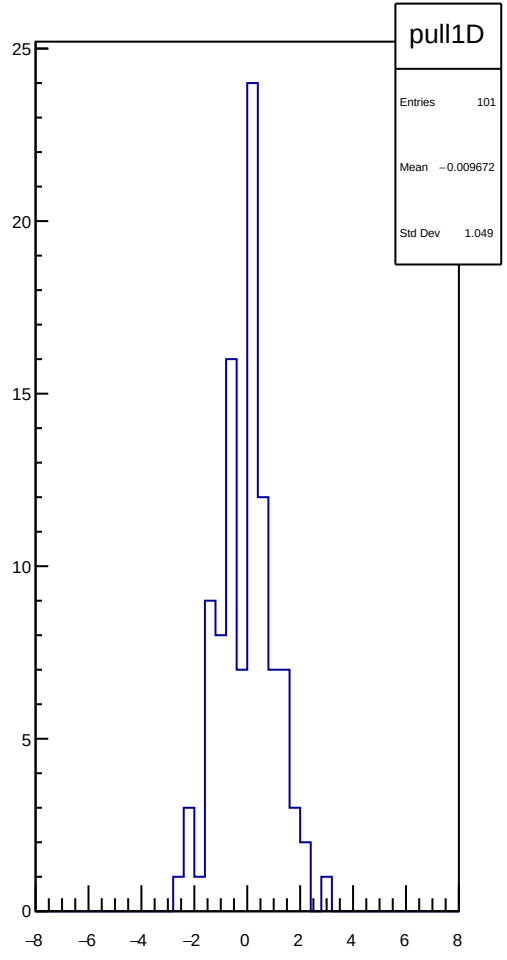

eigen_dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 245.3 / 100
p0 1454 ± 1.048
1500
1480
1460
1440
1420
1400

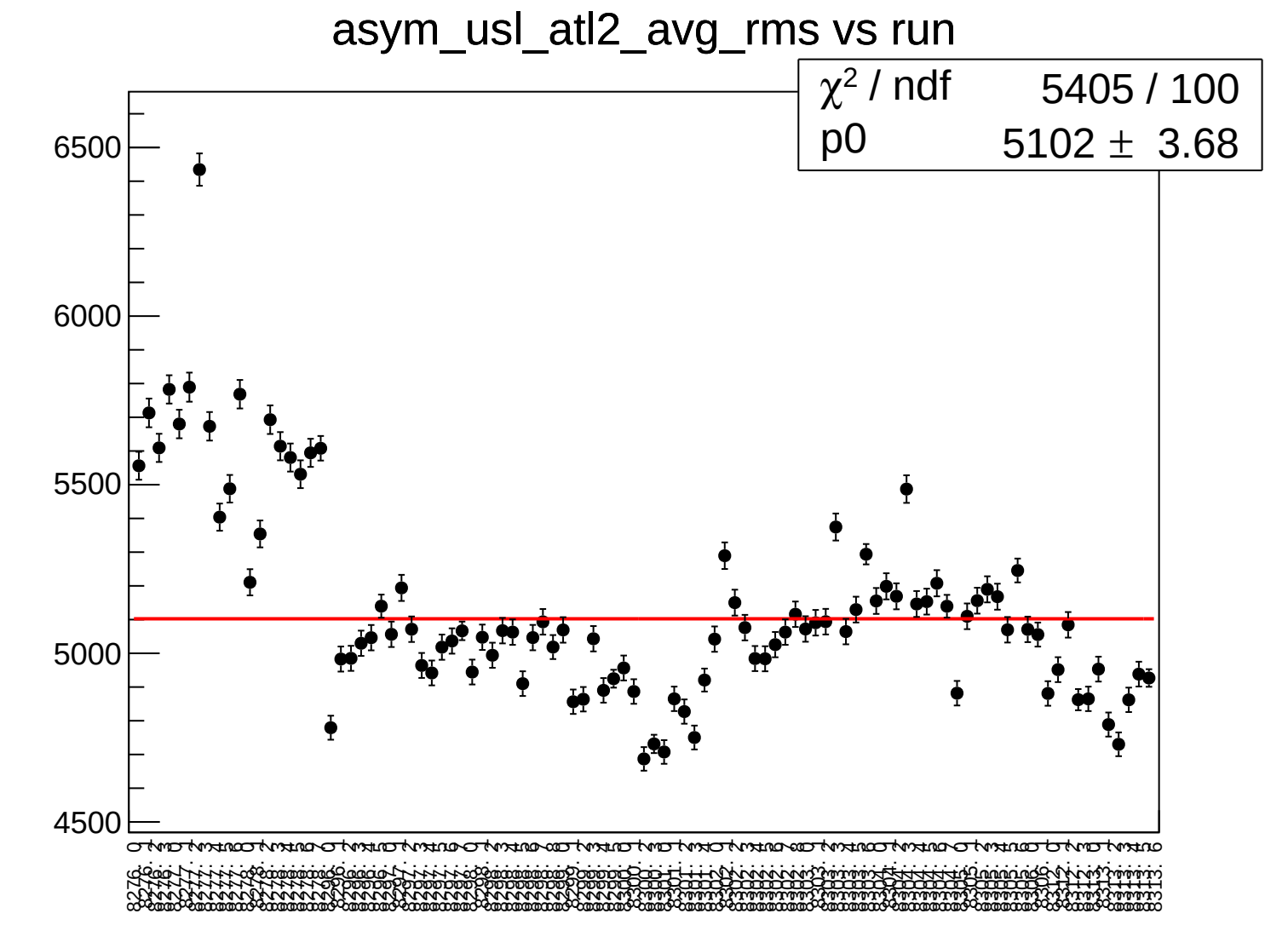

asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 116.3 / 100
p0 −8904 ± 4992
200
100
0
−100
−200
pull
Entries 101
Mean −1538
Std Dev 0
2
1
0
−1
−2
−3

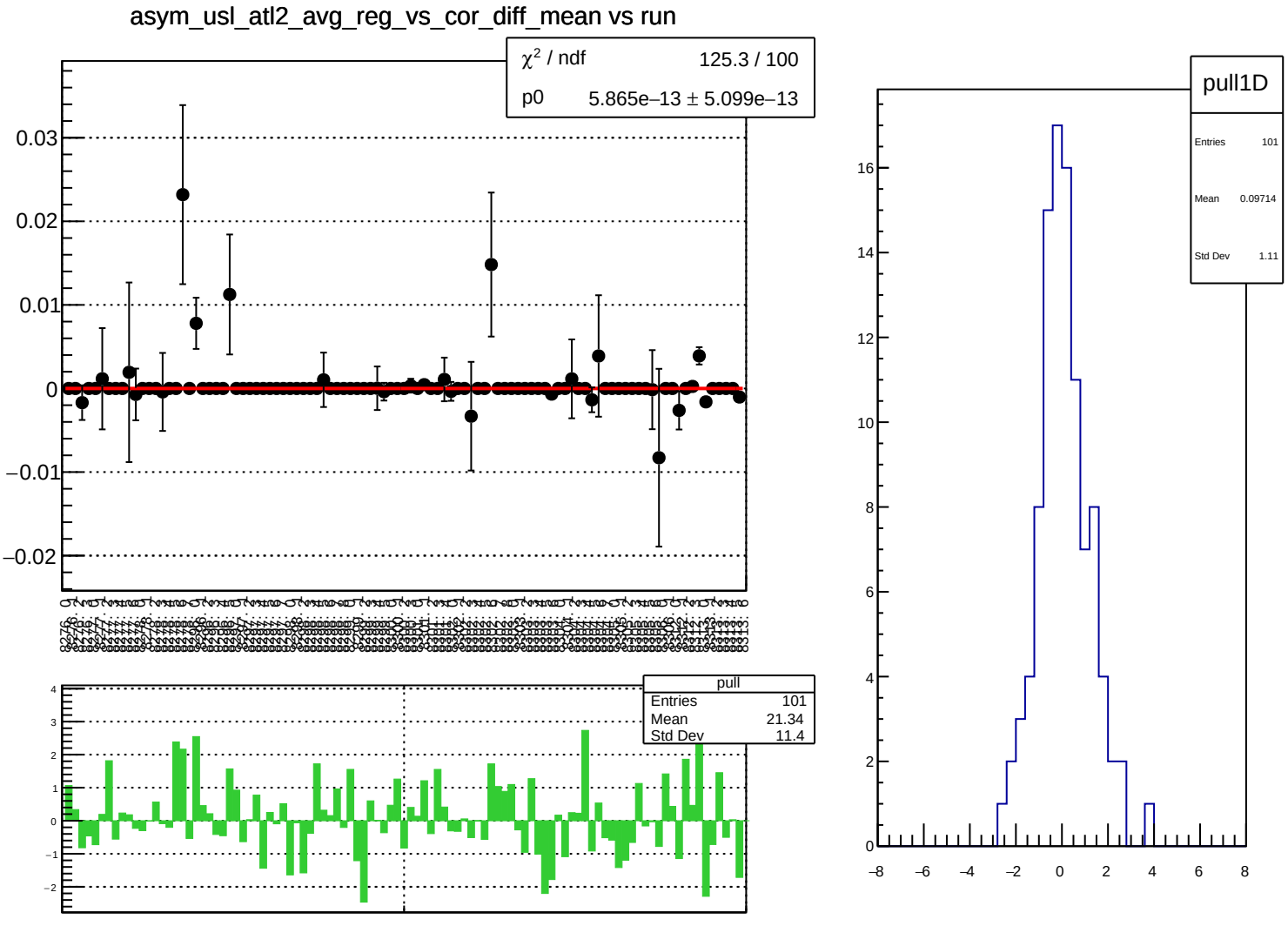

pull1D
Entries 101
Mean 0.004963
Std Dev 1.073
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

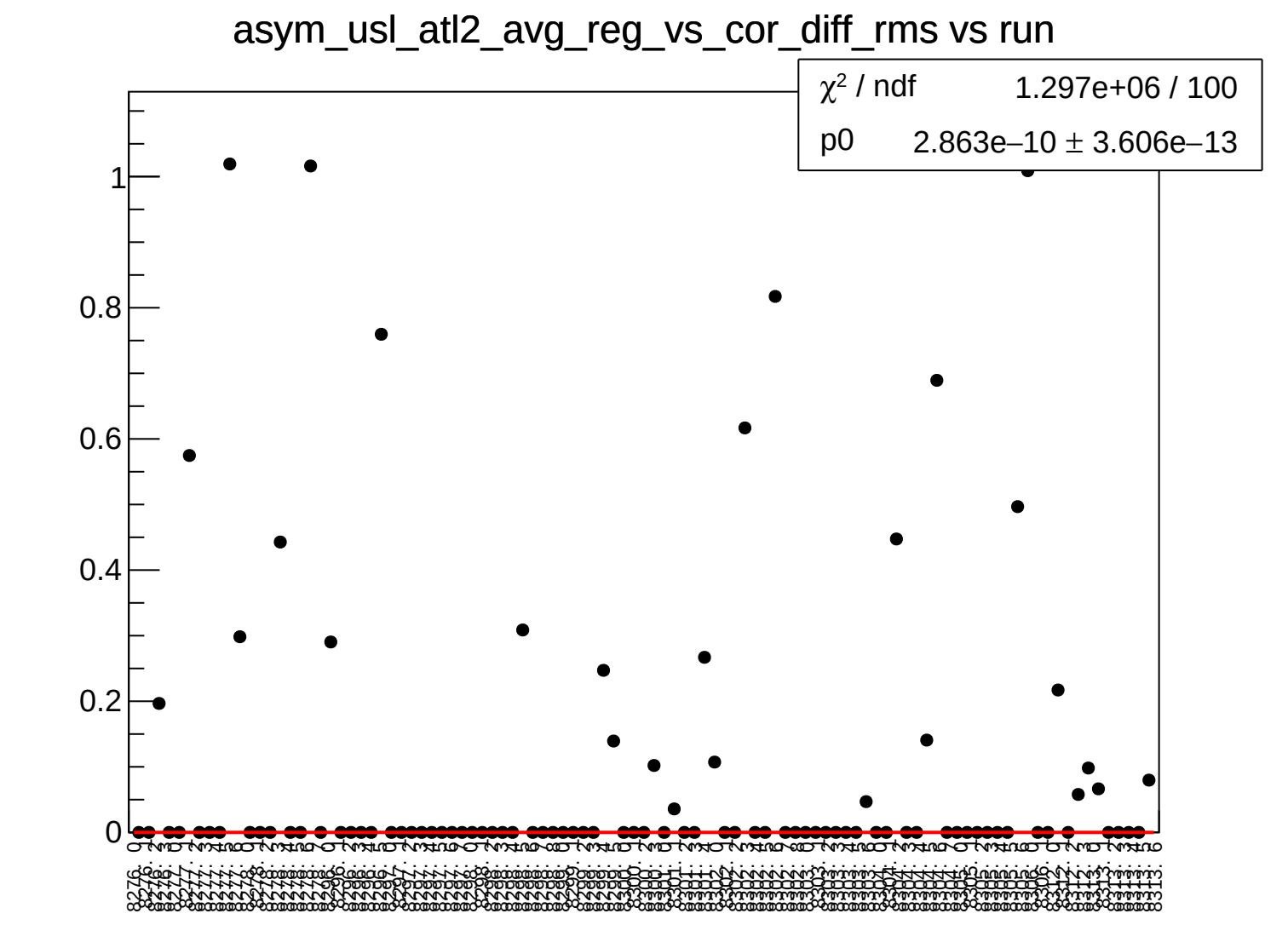

asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 7690 / 100
p0 4890 ± 3.53
6500
6000
5500
5000
4500

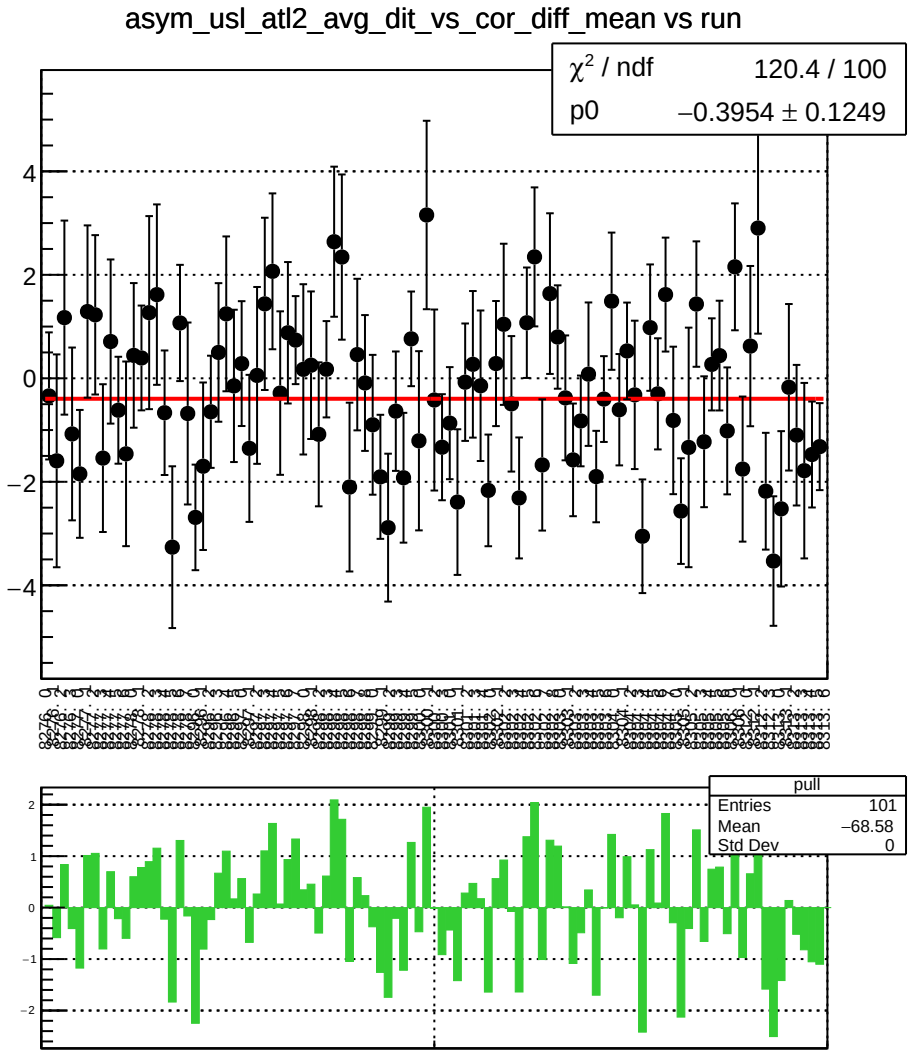

asym_usl_atl2_avg_mean vs run
×10^3
χ² / ndf 111.2 / 100
p0 1.044e+04 ± 5205
200
100
0
−100
−200
pull
Entries 101
Mean −690.2
Std Dev 0
3
2
1
0
−1
−2

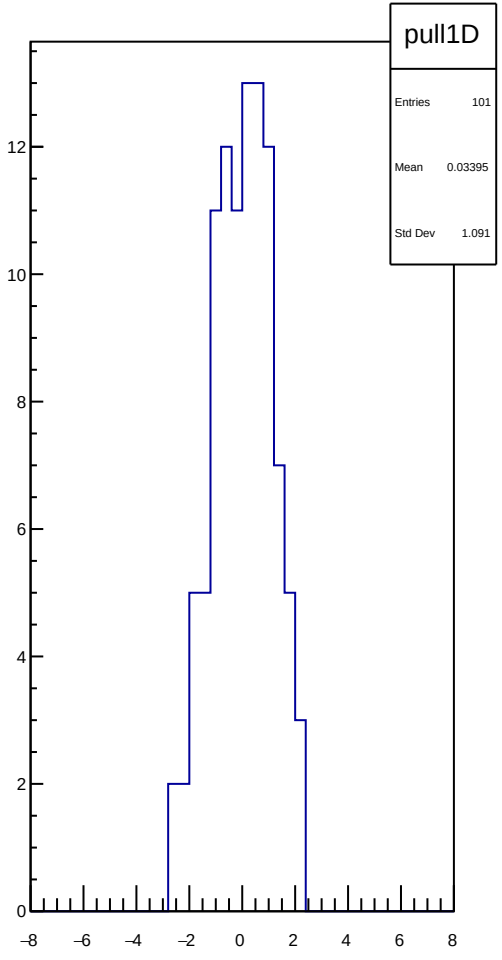

pull1D
Entries 101
Mean −0.009672
Std Dev 1.049
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

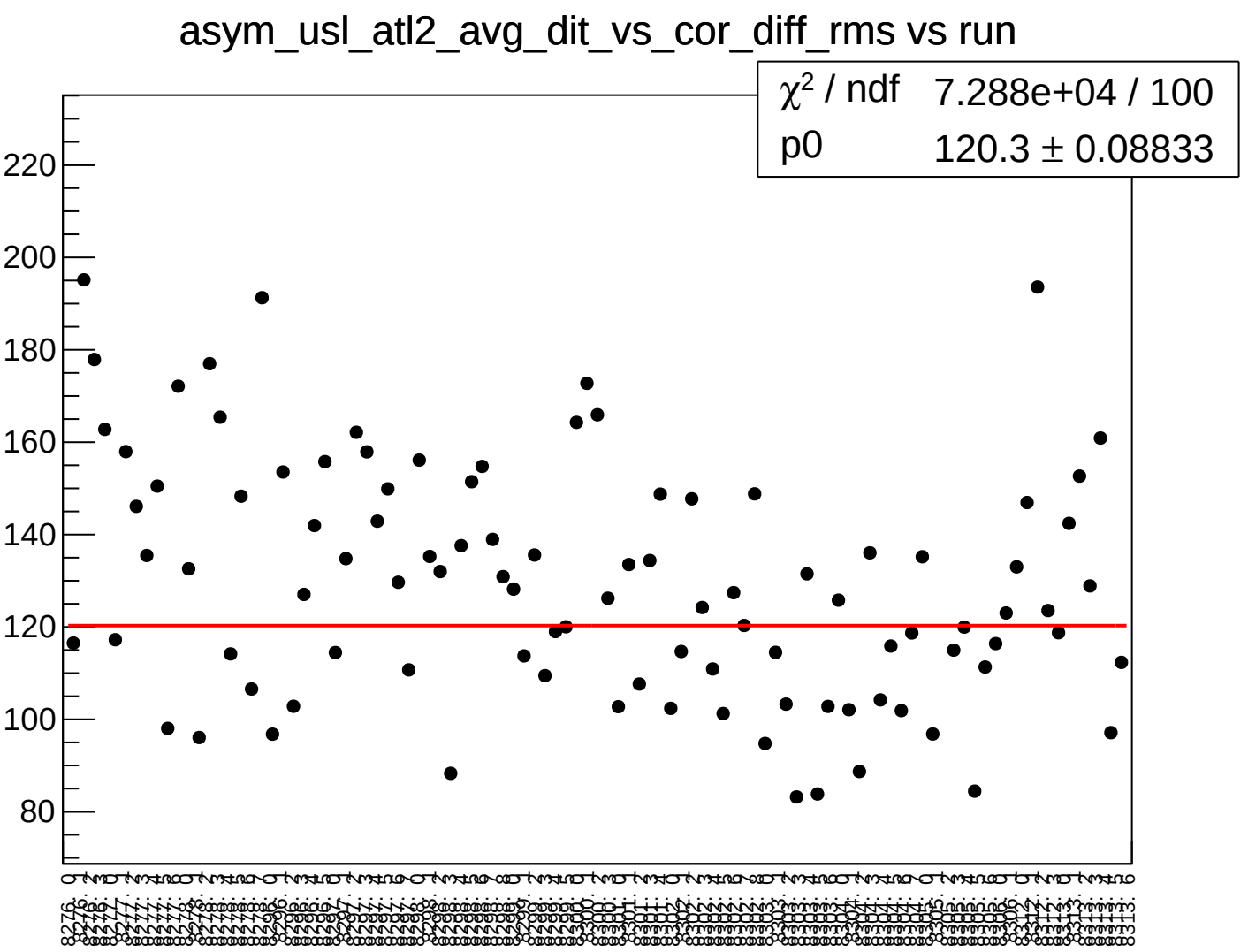

asym_usl_atl2_avg_rms vs run
χ² / ndf 5405 / 100
p0 5102 ± 3.68
6500
6000
5500
5000
4500

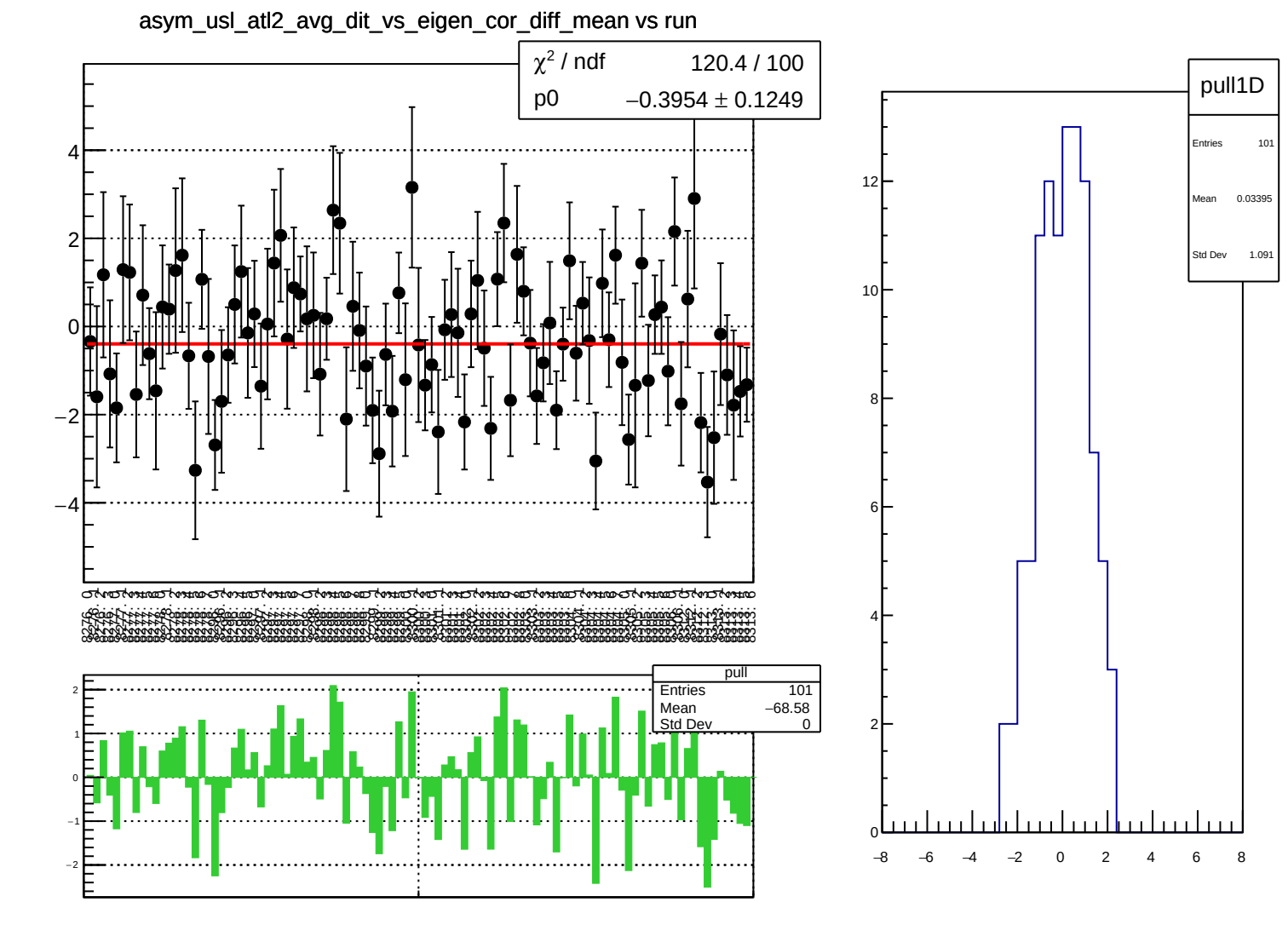

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 125.3 / 100
p0 5.865e−13 ± 5.099e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 101
Mean 21.34
Std Dev 11.4
pull1D
Entries 101
Mean 0.09714
Std Dev 1.11
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

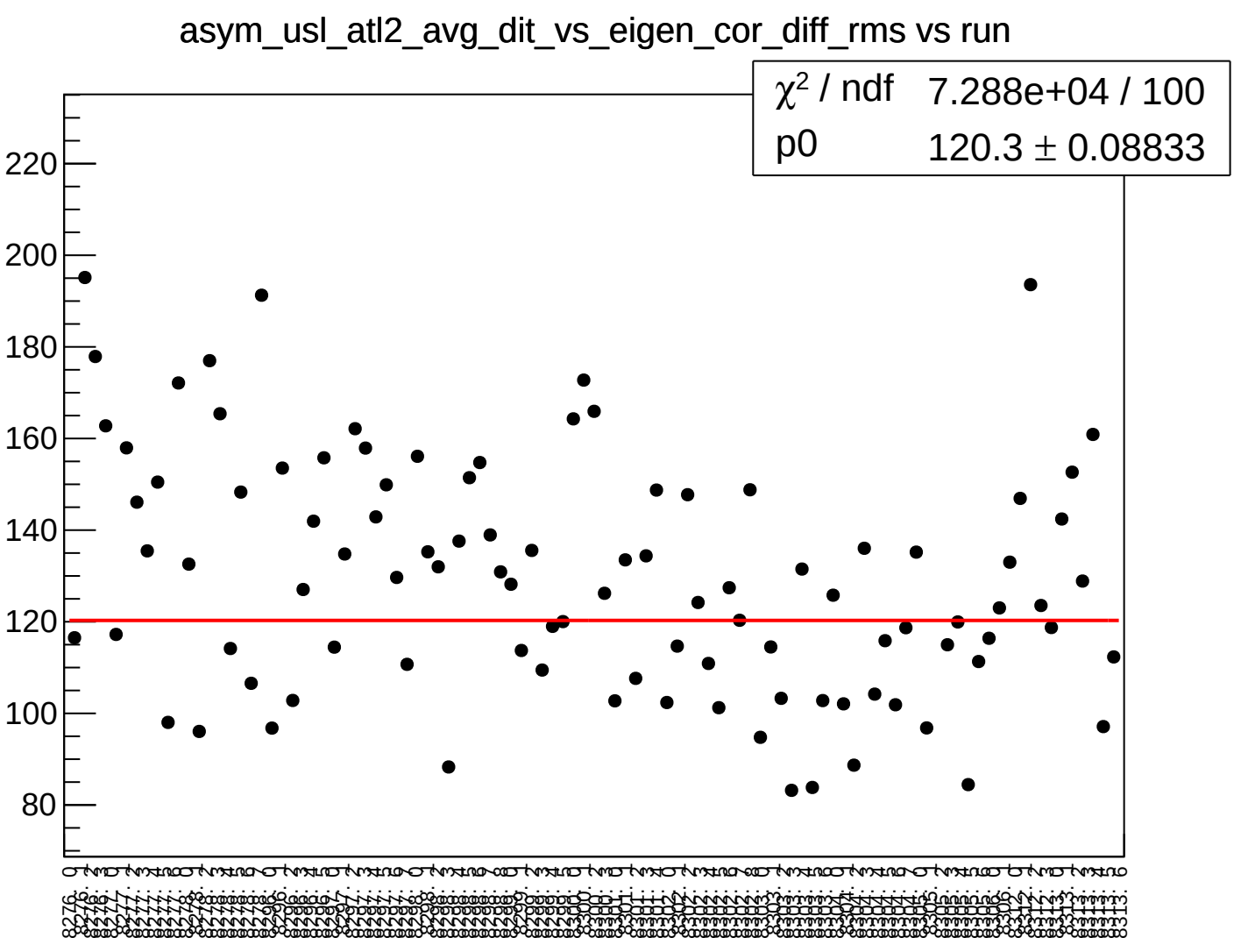

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.297e+06 / 100
p0 2.863e−10 ± 3.606e−13
1
0.8
0.6
0.4
0.2
0

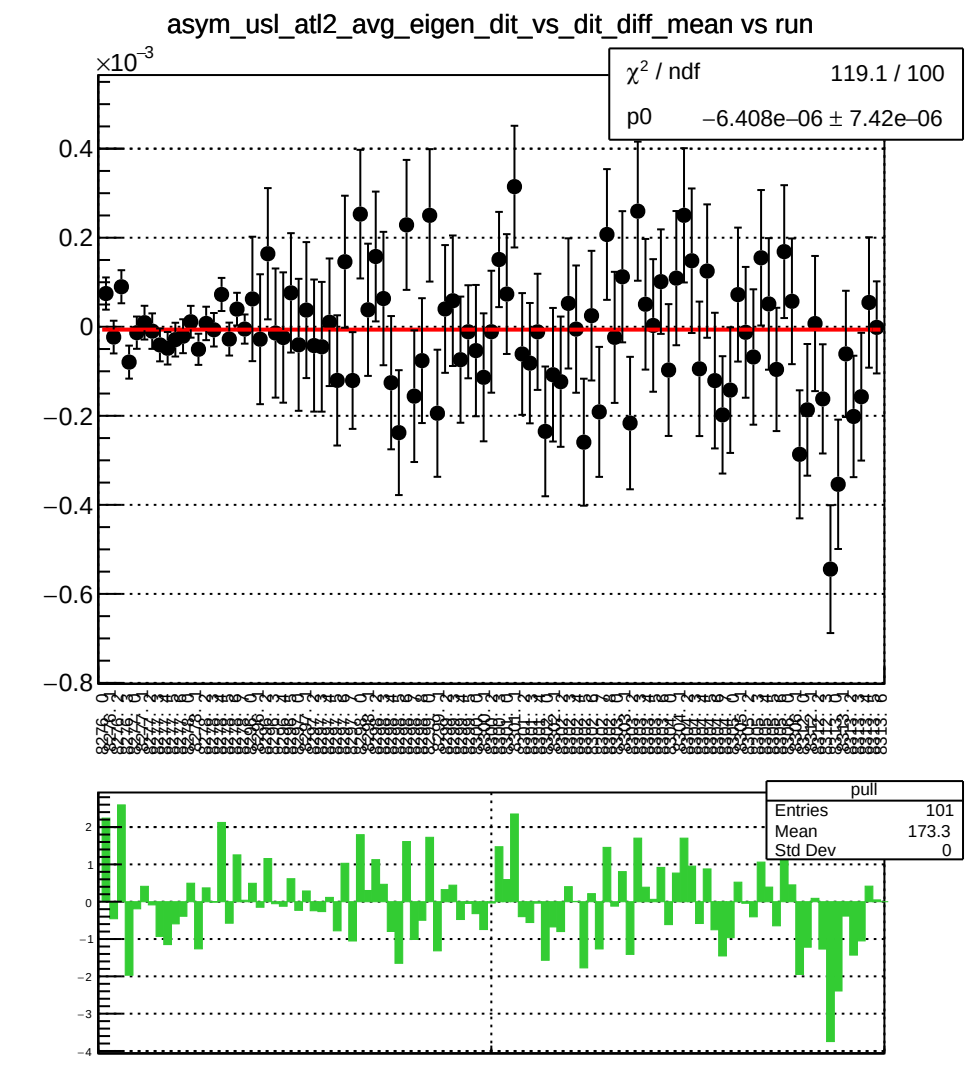

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 120.4 / 100
p0 −0.3954 ± 0.1249
pull
Entries 101
Mean −68.58
Std Dev 0

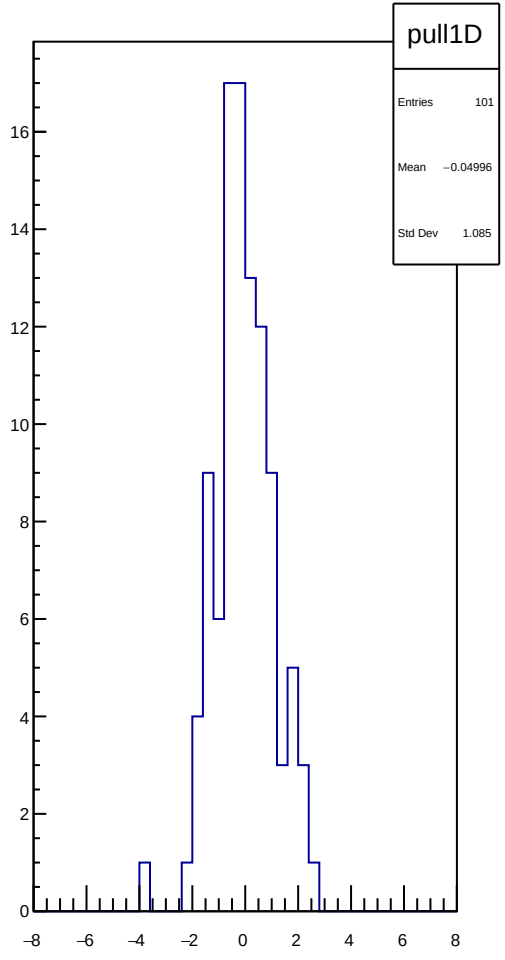

pull1D
Entries 101
Mean 0.03395
Std Dev 1.091

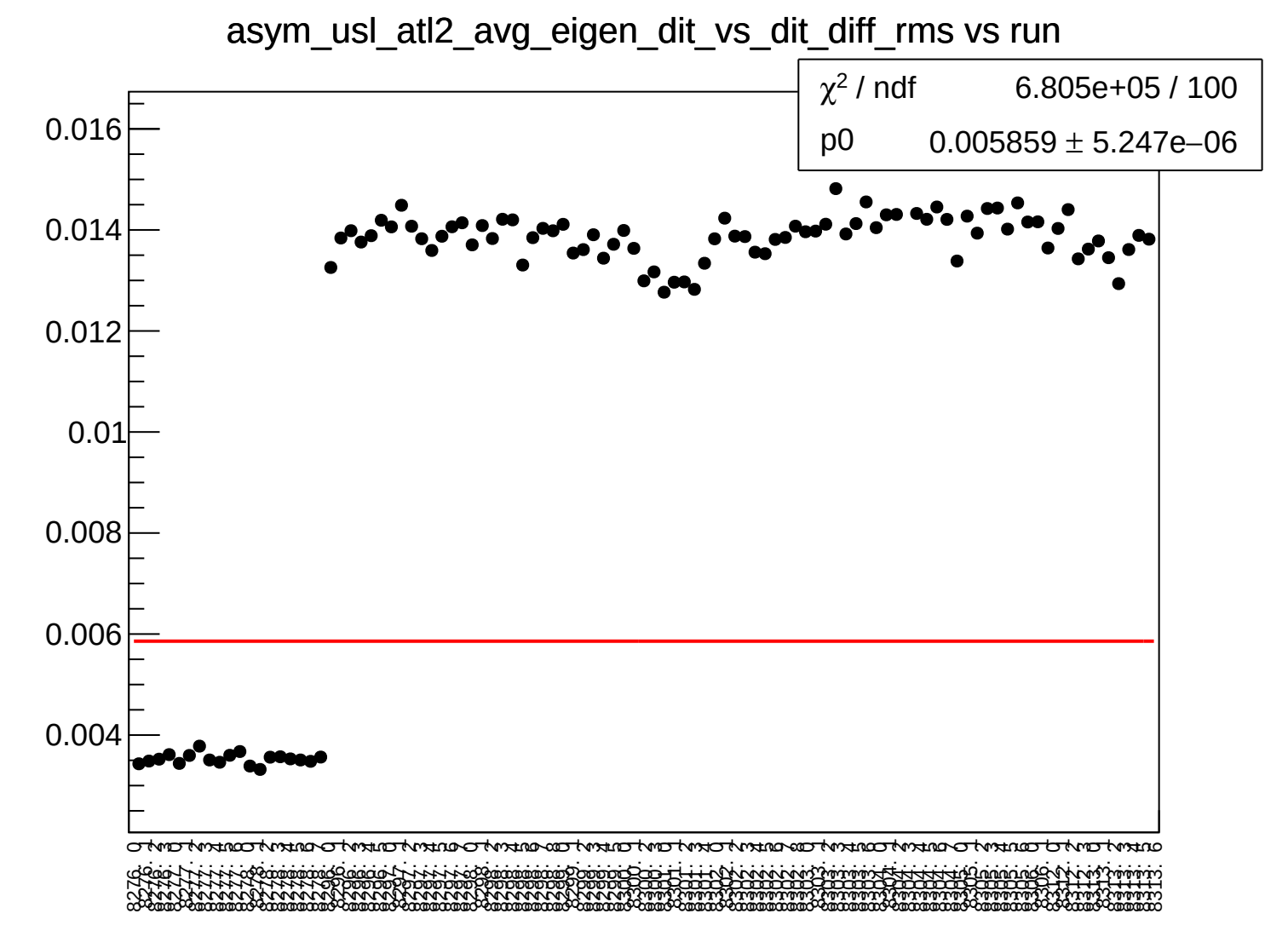

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.288e+04 / 100
p0 120.3 ± 0.08833
220
200
180
160
140
120
100
80

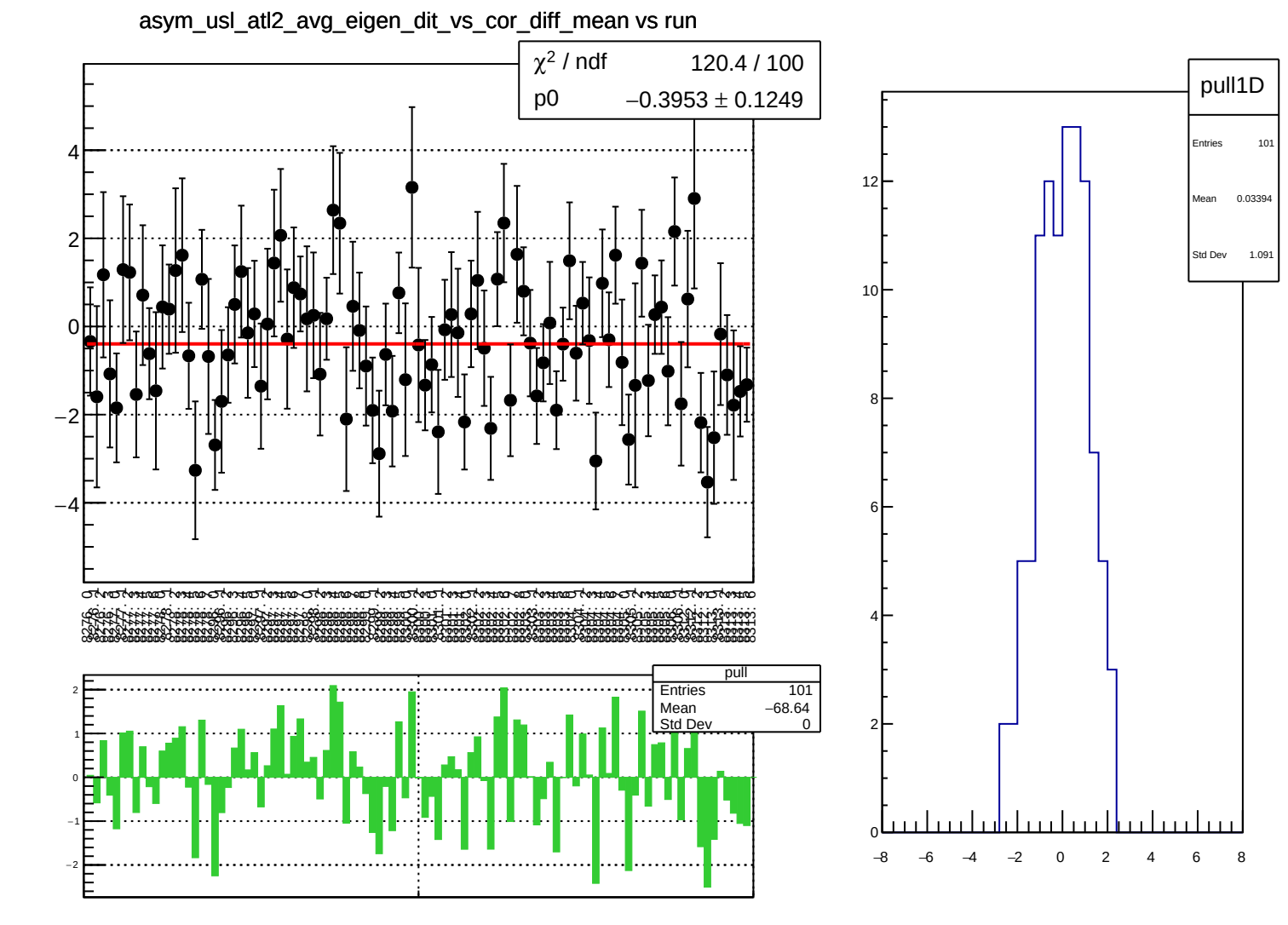

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 120.4 / 100
p0 −0.3954 ± 0.1249
pull
Entries 101
Mean −68.58
Std Dev 0
pull1D
Entries 101
Mean 0.03395
Std Dev 1.091

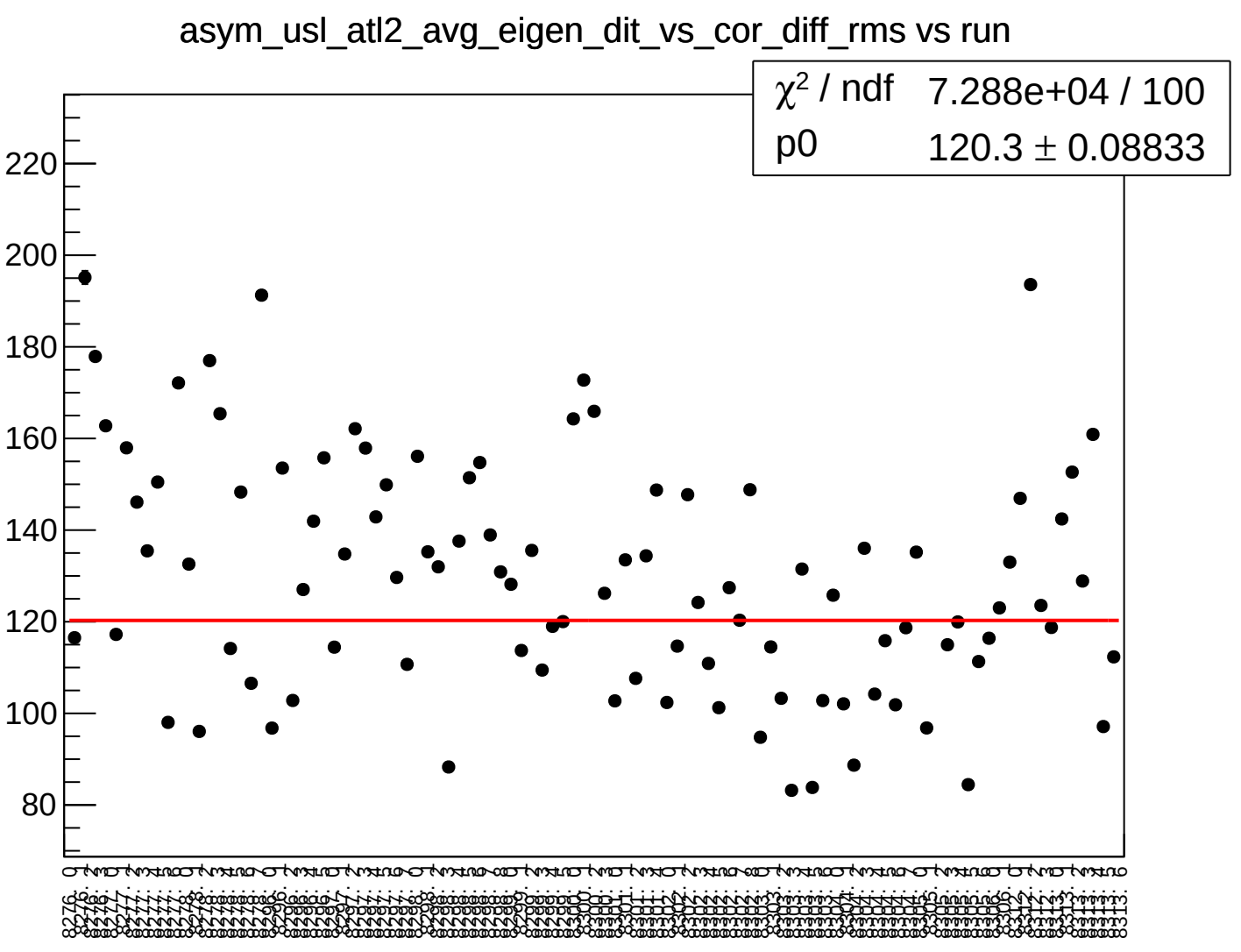

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.288e+04 / 100
p0 120.3 ± 0.08833
220
200
180
160
140
120
100
80

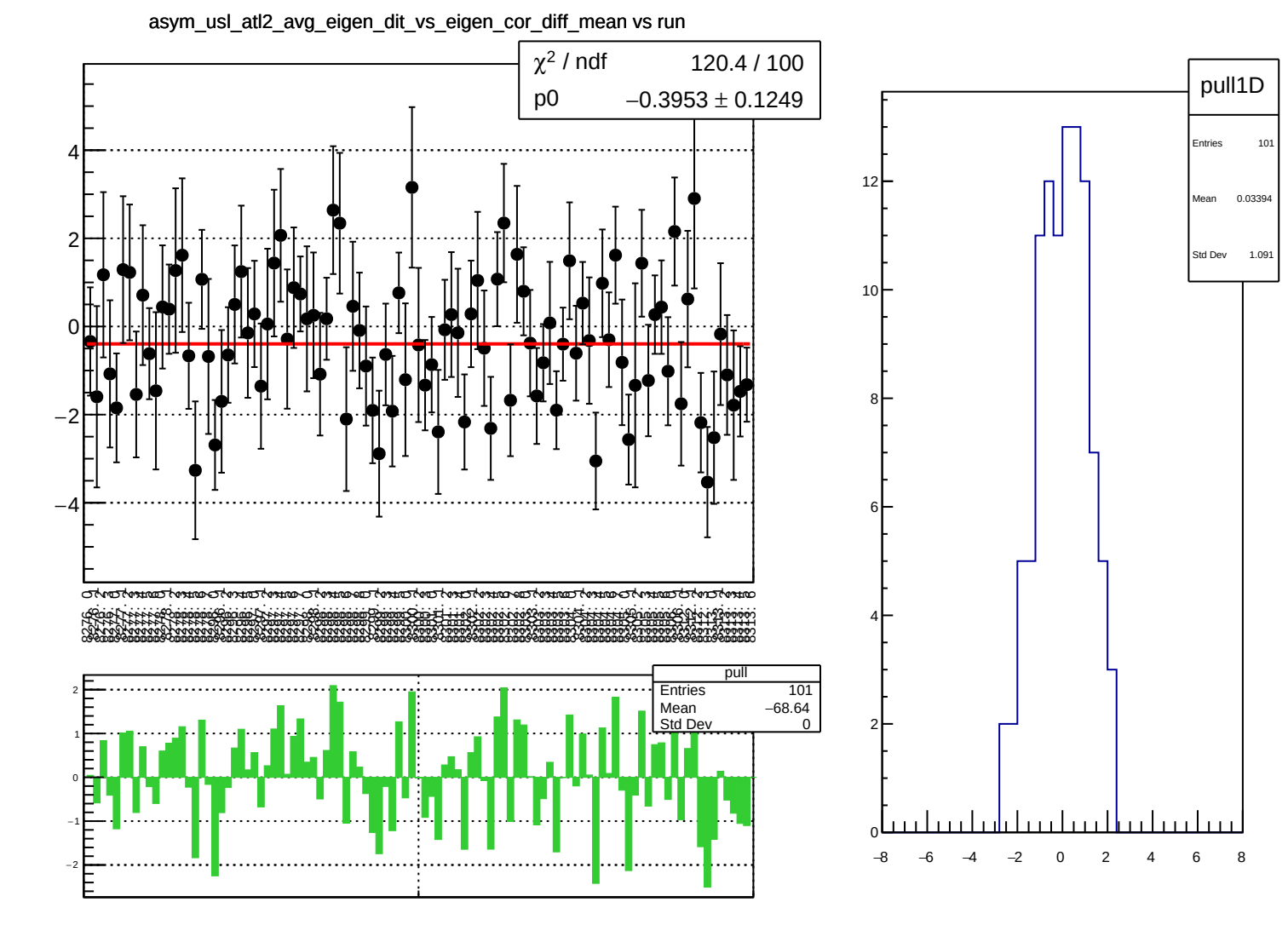

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 119.1 / 100
p0 −6.408e−06 ± 7.42e−06
pull
Entries 101
Mean 173.3
Std Dev 0

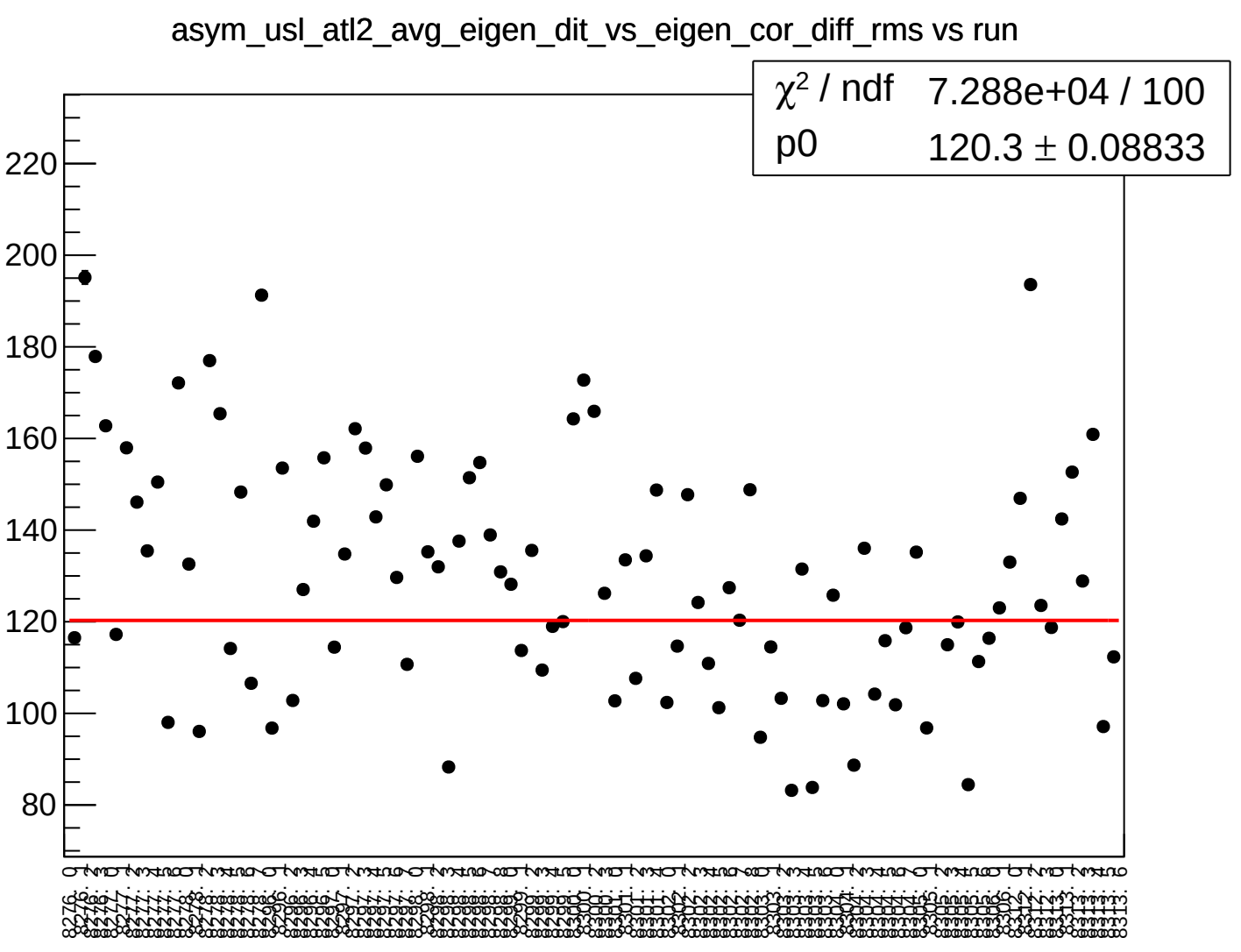

pull1D
Entries 101
Mean −0.04996
Std Dev 1.085

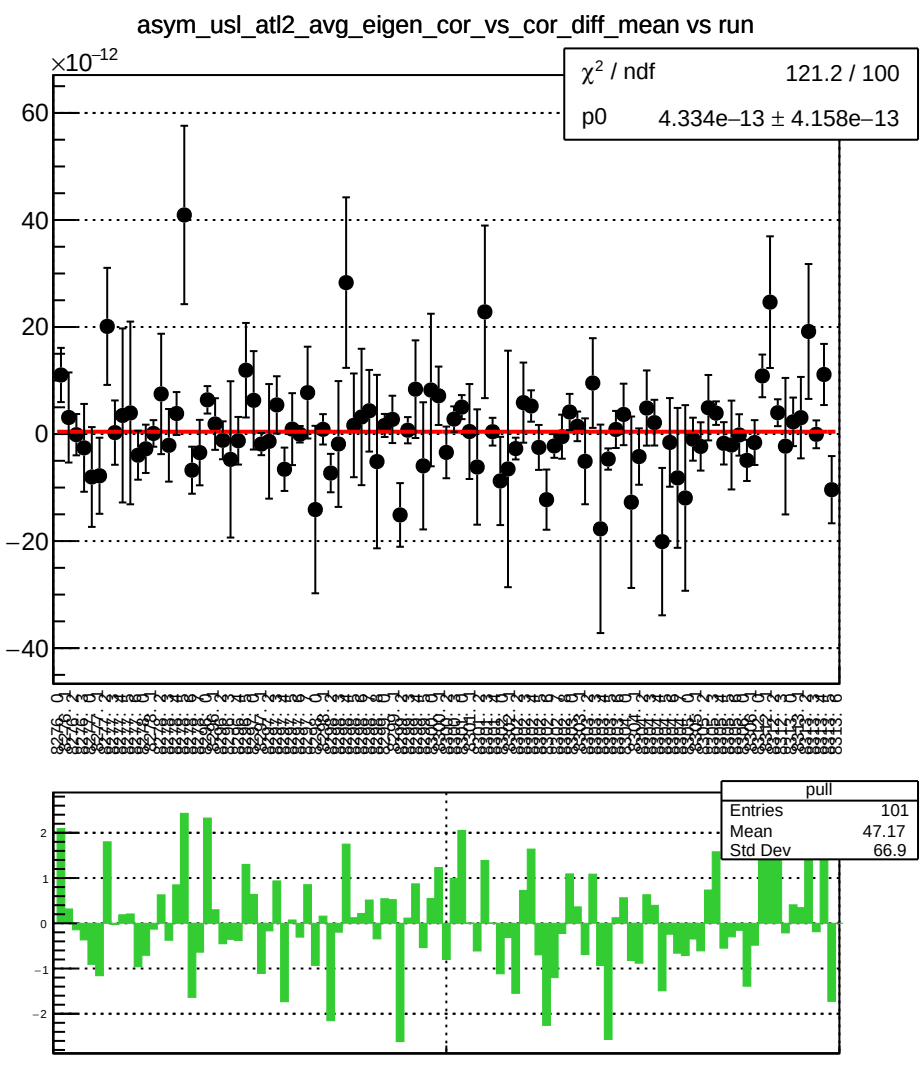

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.805e+05 / 100
p0 0.005859 ± 5.247e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

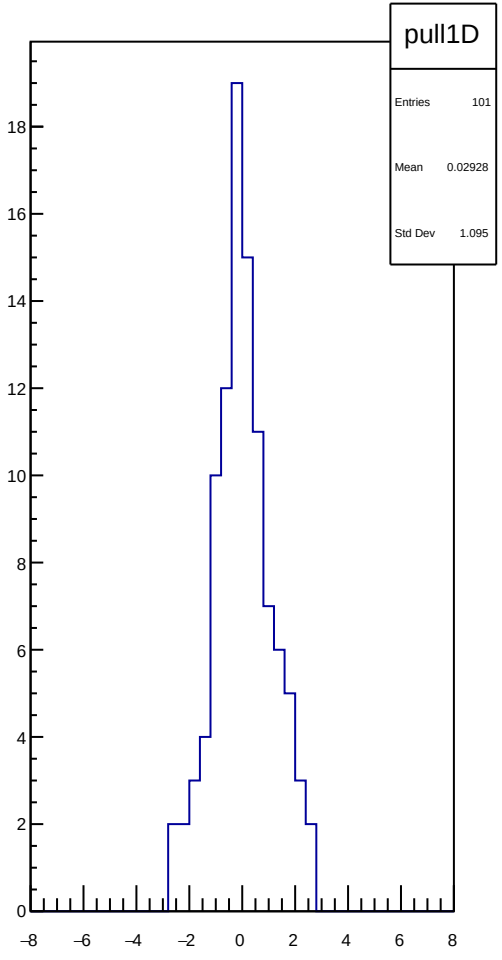

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 120.4 / 100
p0 −0.3953 ± 0.1249
pull
Entries 101
Mean −68.64
Std Dev 0
pull1D
Entries 101
Mean 0.03394
Std Dev 1.091

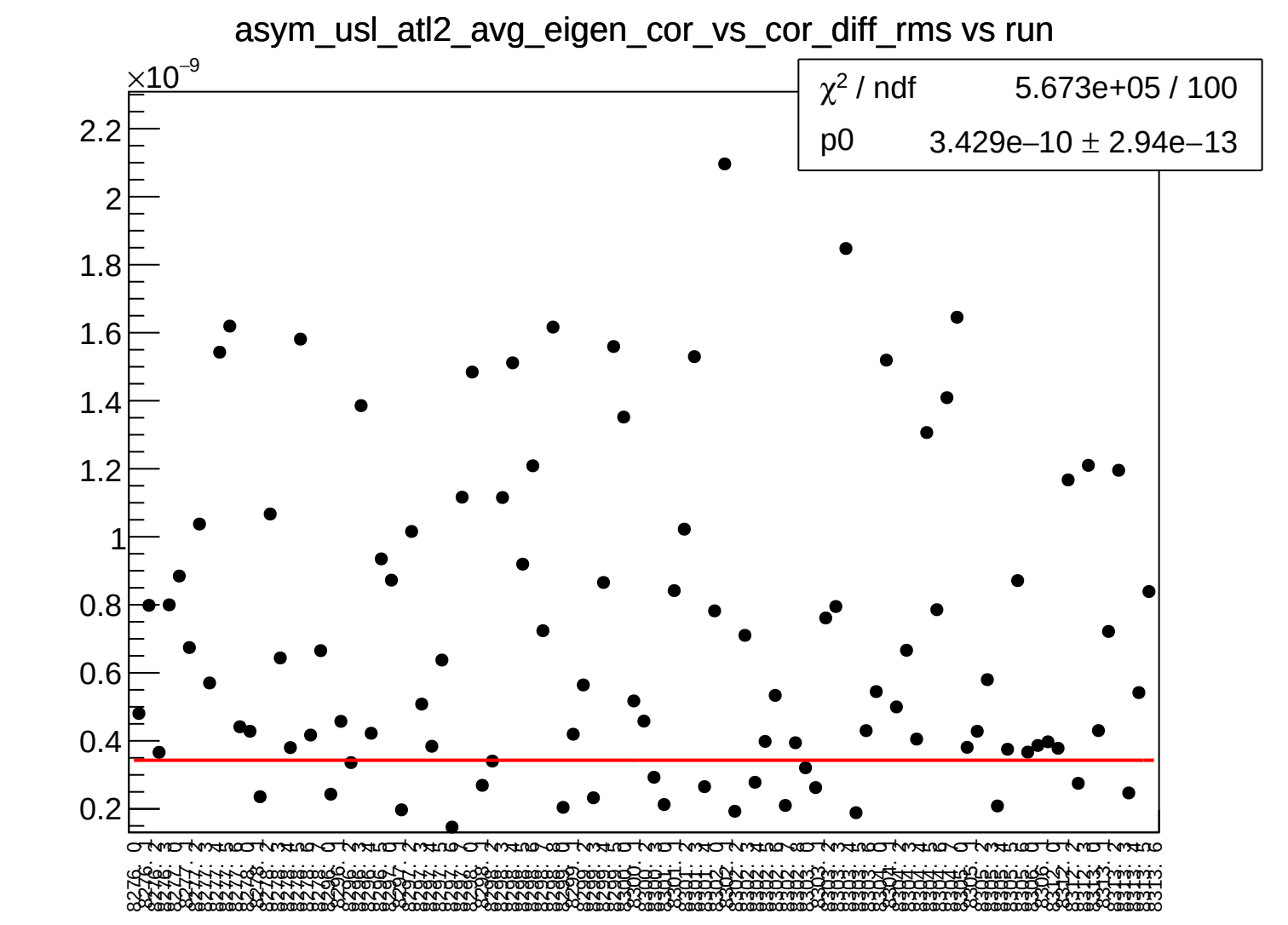

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.288e+04 / 100
p0 120.3 ± 0.08833
220
200
180
160
140
120
100
80

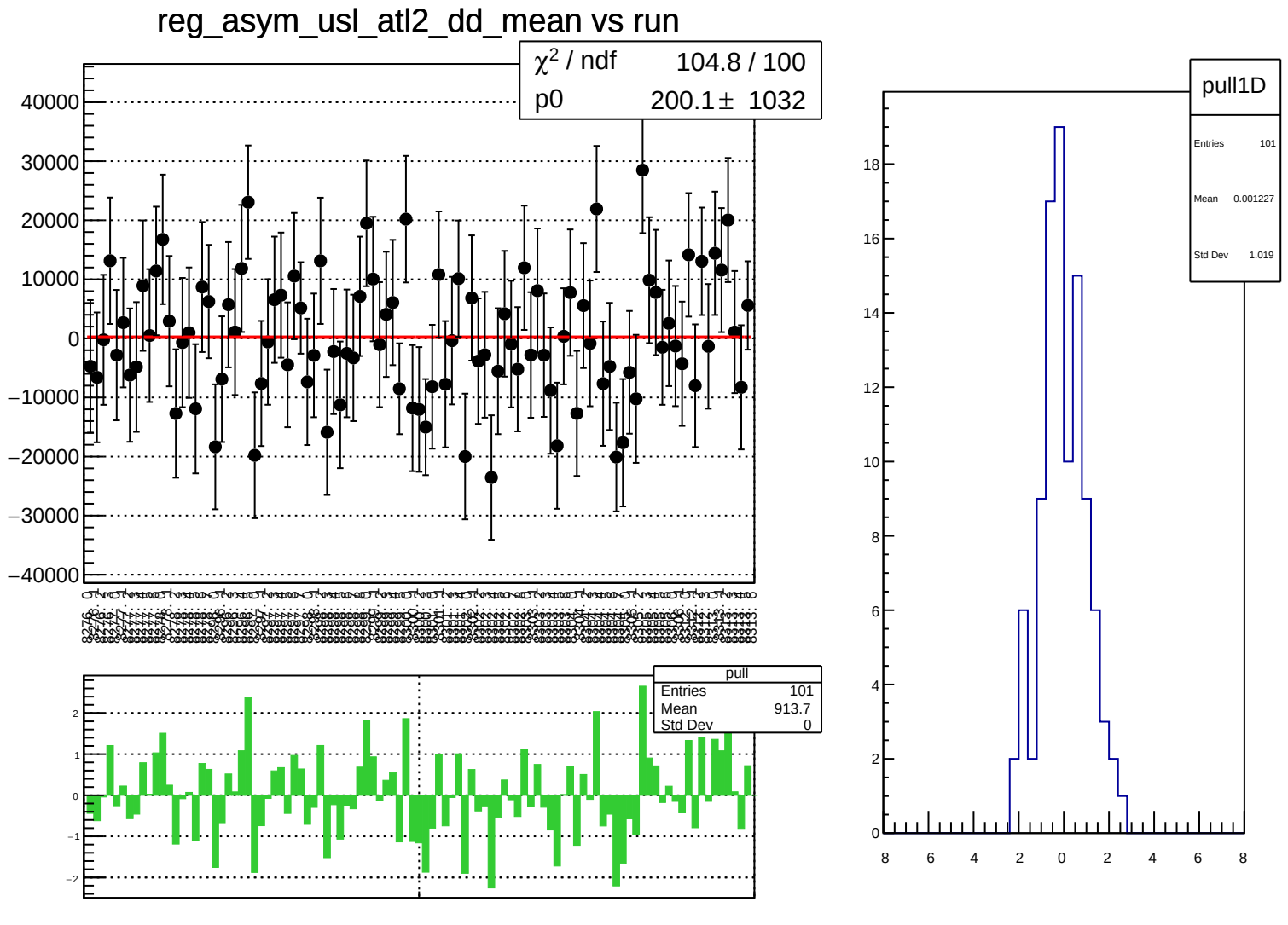

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 120.4 / 100
p0 −0.3953 ± 0.1249
pull
Entries 101
Mean −68.64
Std Dev 0
pull1D
Entries 101
Mean 0.03394
Std Dev 1.091

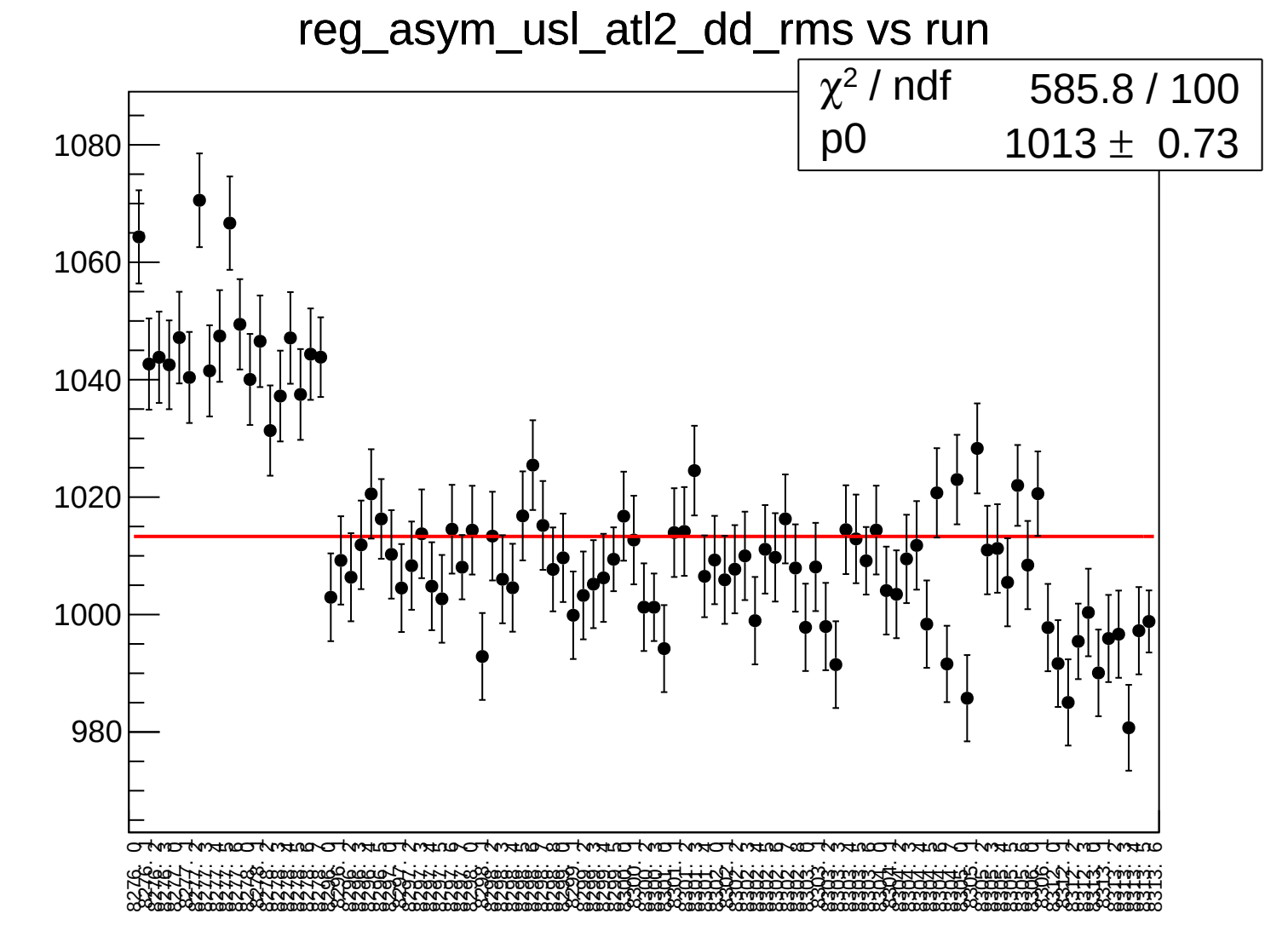

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.288e+04 / 100
p0 120.3 ± 0.08833
220
200
180
160
140
120
100
80

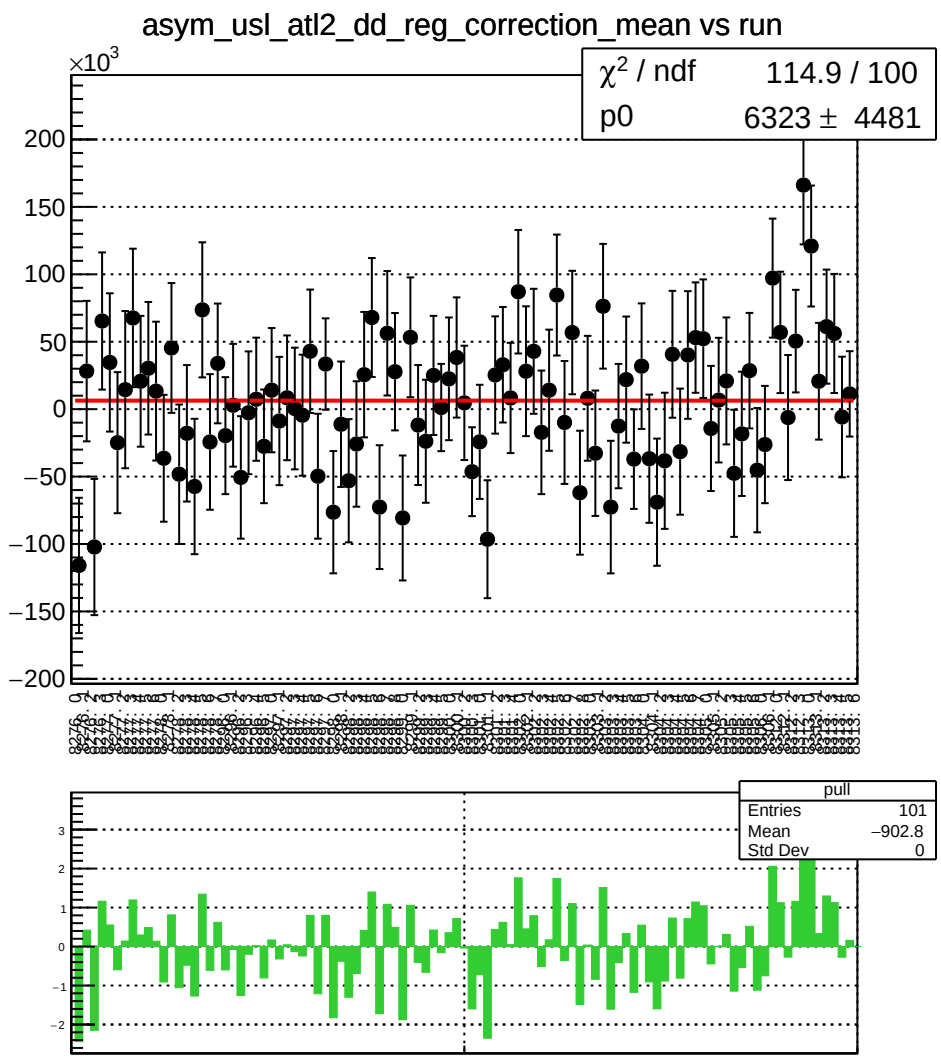

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 121.2 / 100
p0 4.334e−13 ± 4.158e−13
60
40
20
0
−20
−40
pull
Entries 101
Mean 47.17
Std Dev 66.9
2
1
0
−1
−2

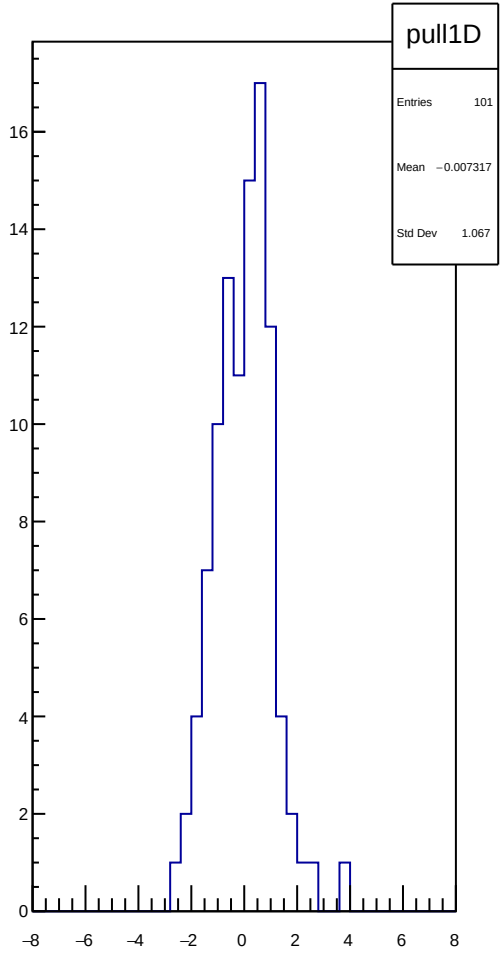

pull1D
Entries 101
Mean 0.02928
Std Dev 1.095
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

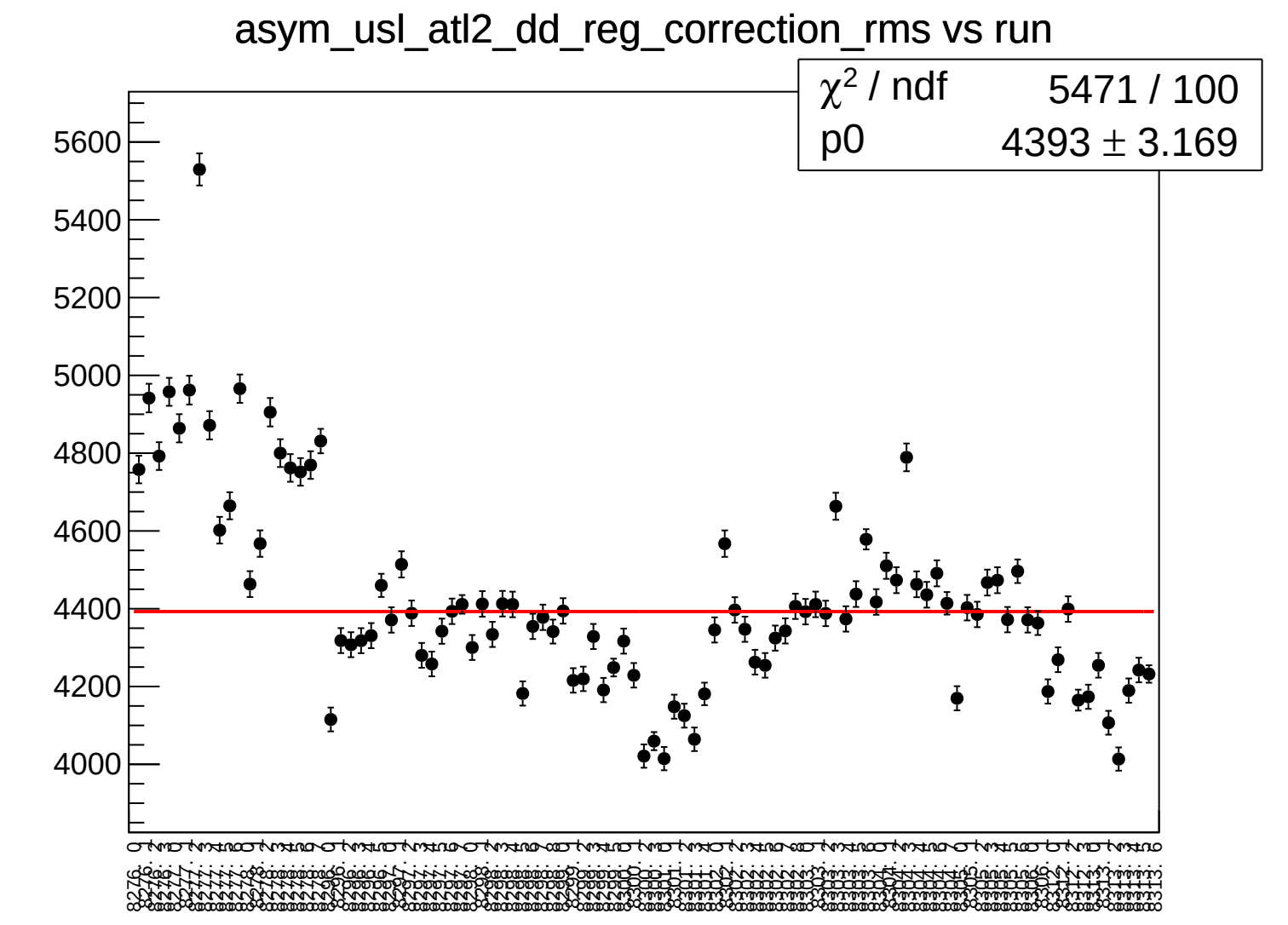

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.673e+05 / 100
p0 3.429e−10 ± 2.94e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

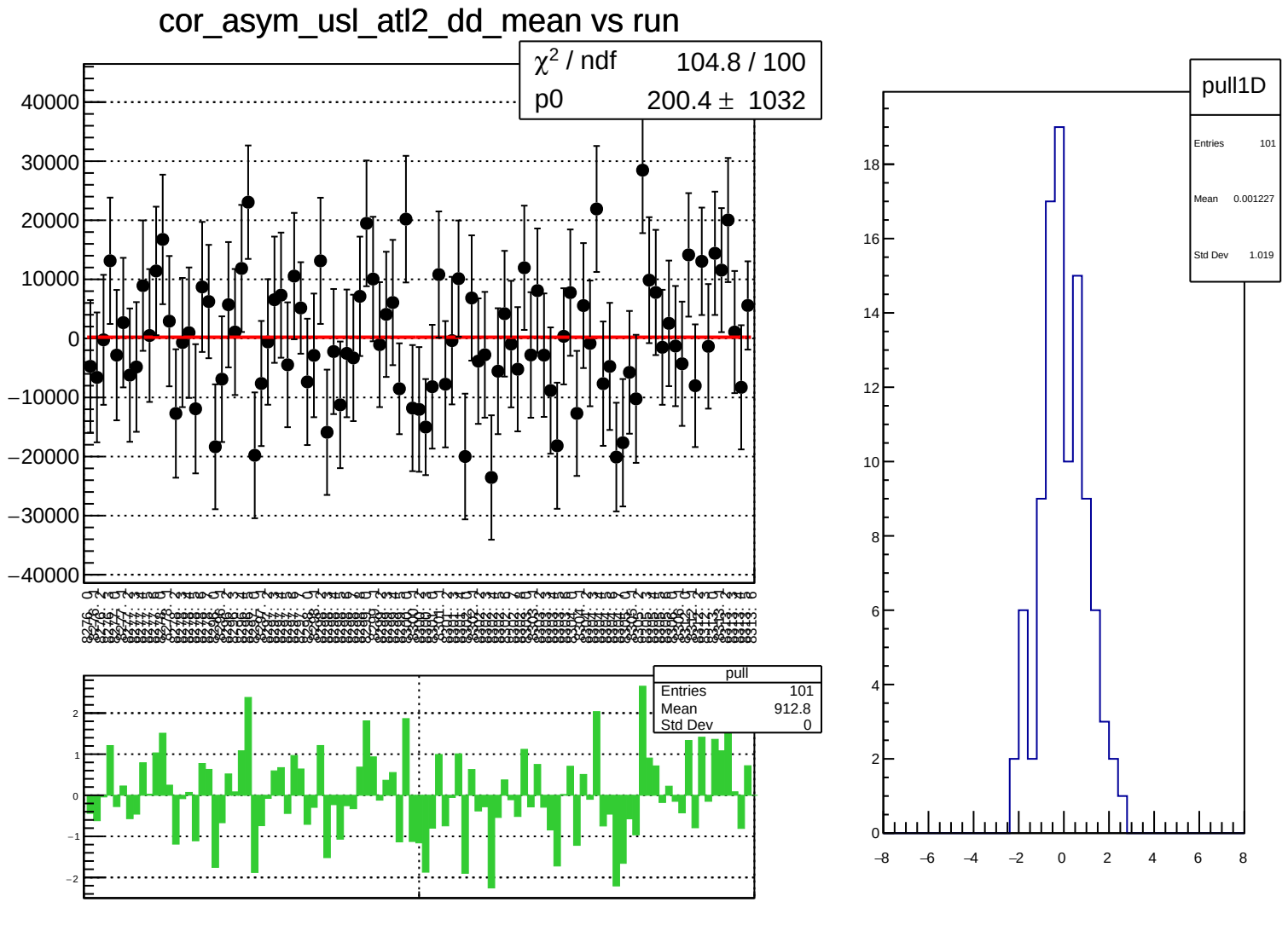

reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 104.8 / 100
p0 200.1 ± 1032
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 101
Mean 913.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.001227
Std Dev 1.019
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

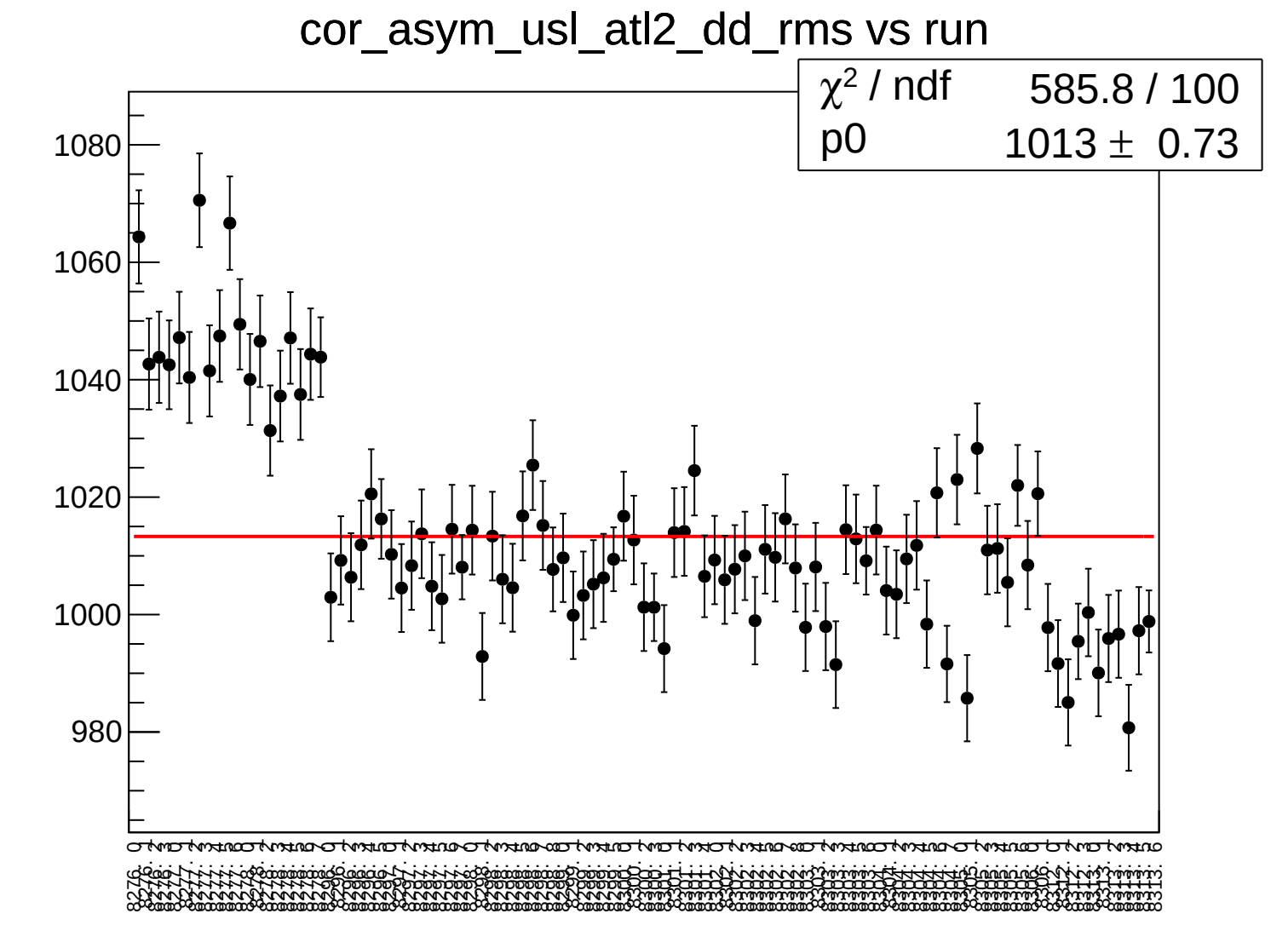

reg_asym_usl_atl2_dd_rms vs run
χ² / ndf 585.8 / 100
p0 1013 ± 0.73
1080
1060
1040
1020
1000
980

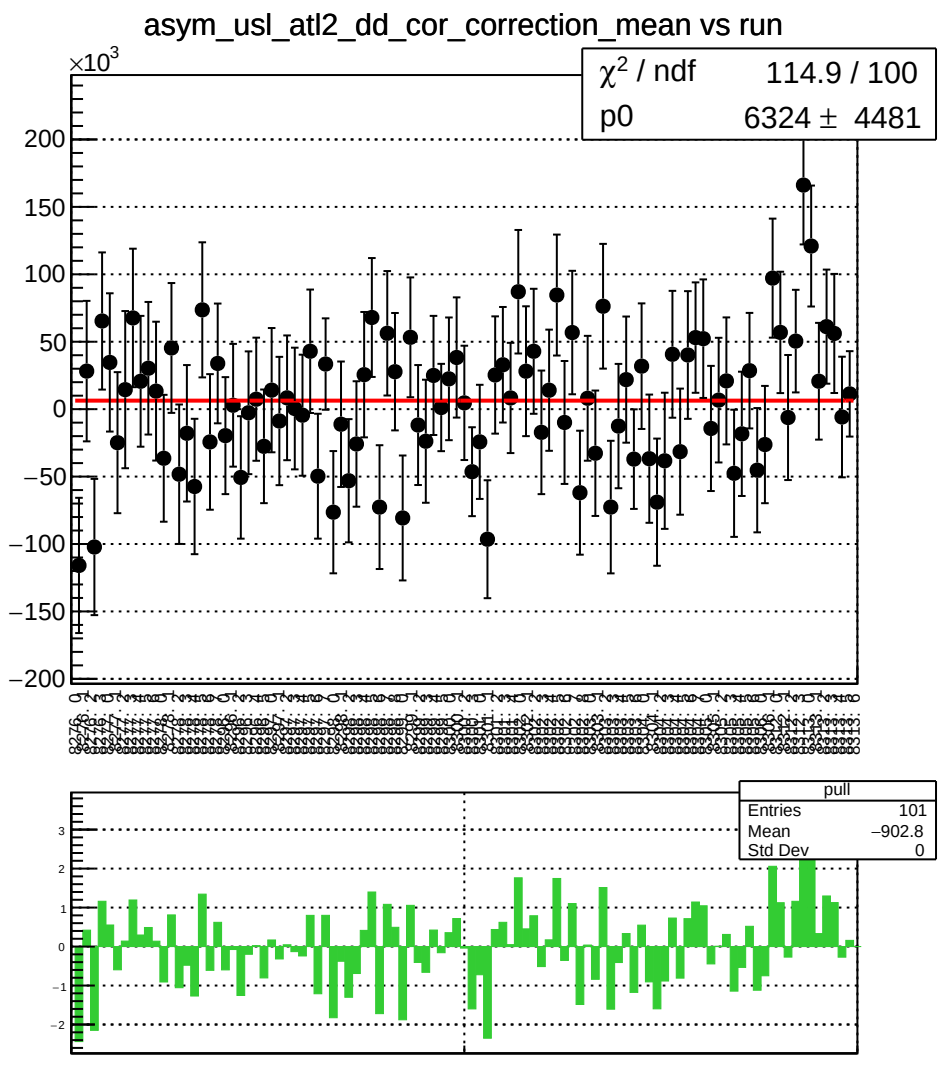

asym_usl_atl2_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 114.9 / 100
p0 6323 ± 4481
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 101
Mean −902.8
Std Dev 0
3
2
1
0
−1
−2

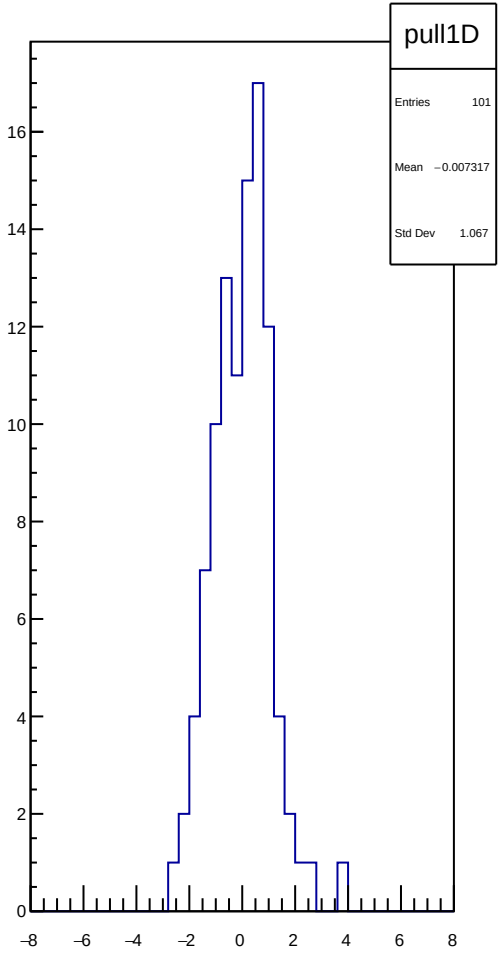

pull1D
Entries 101
Mean −0.007317
Std Dev 1.067
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

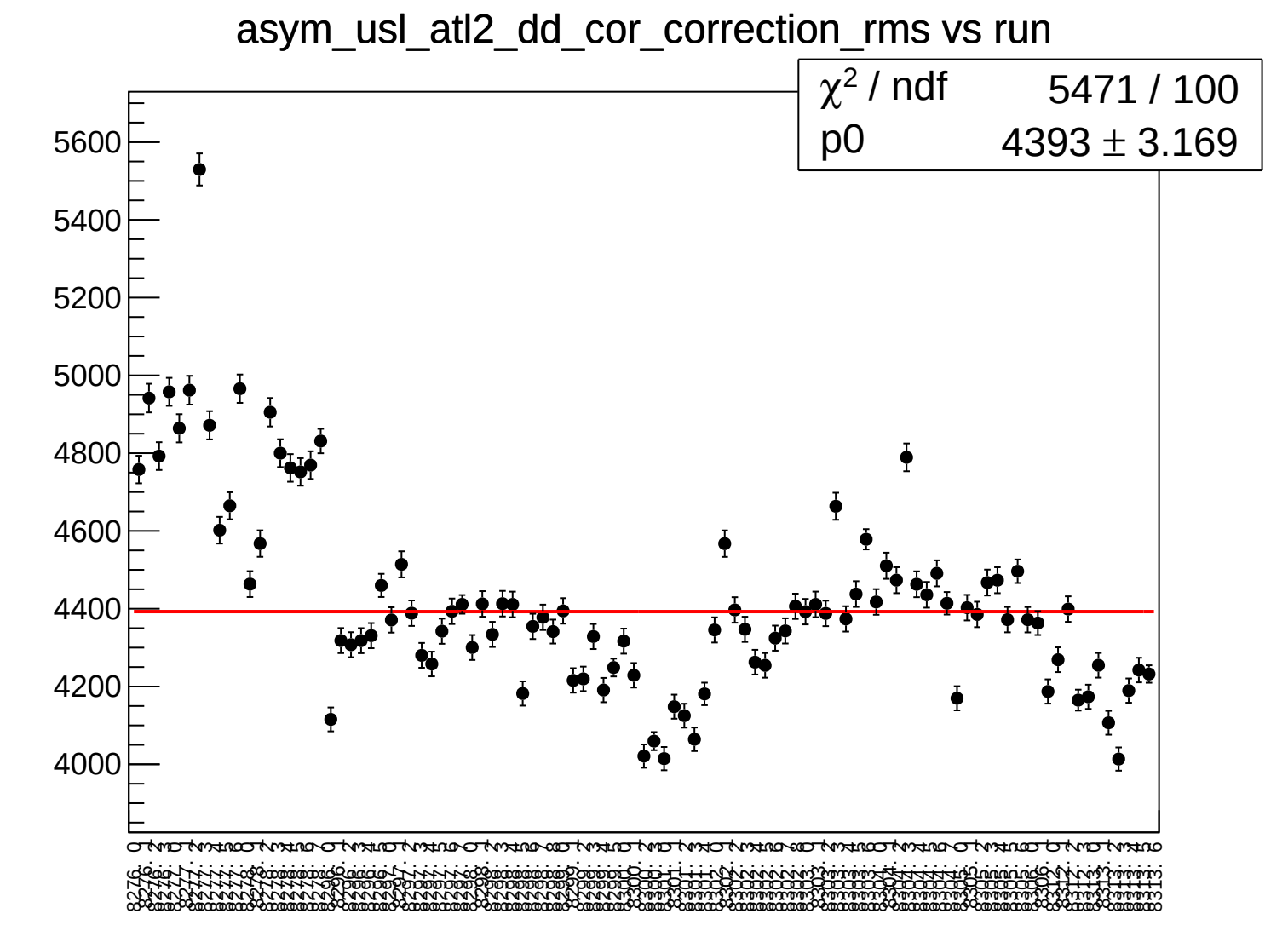

asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 5471 / 100
p0 4393 ± 3.169
5600
5400
5200
5000
4800
4600
4400
4200
4000

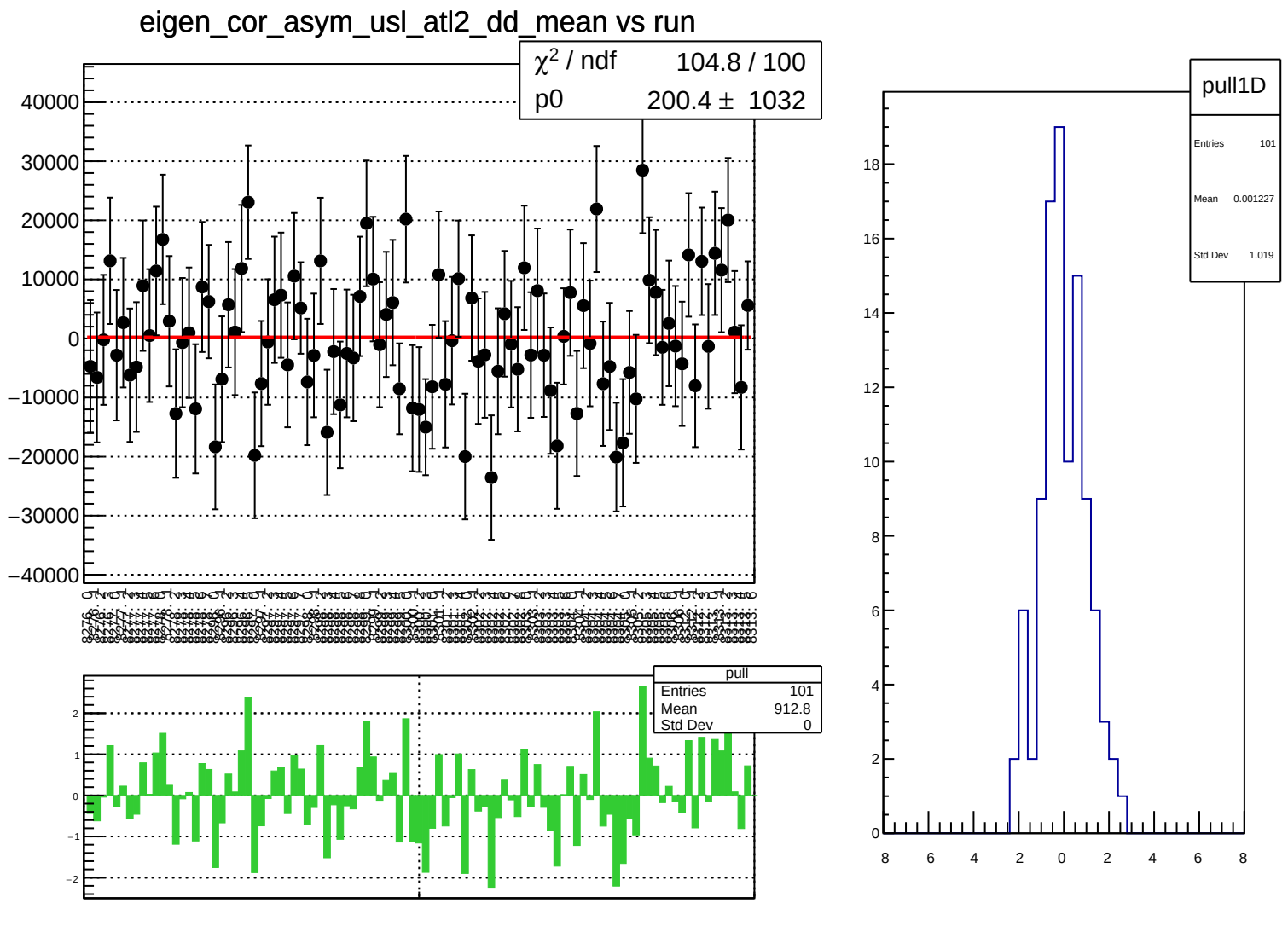

cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 104.8 / 100
p0 200.4 ± 1032
pull
Entries 101
Mean 912.8
Std Dev 0
pull1D
Entries 101
Mean 0.001227
Std Dev 1.019

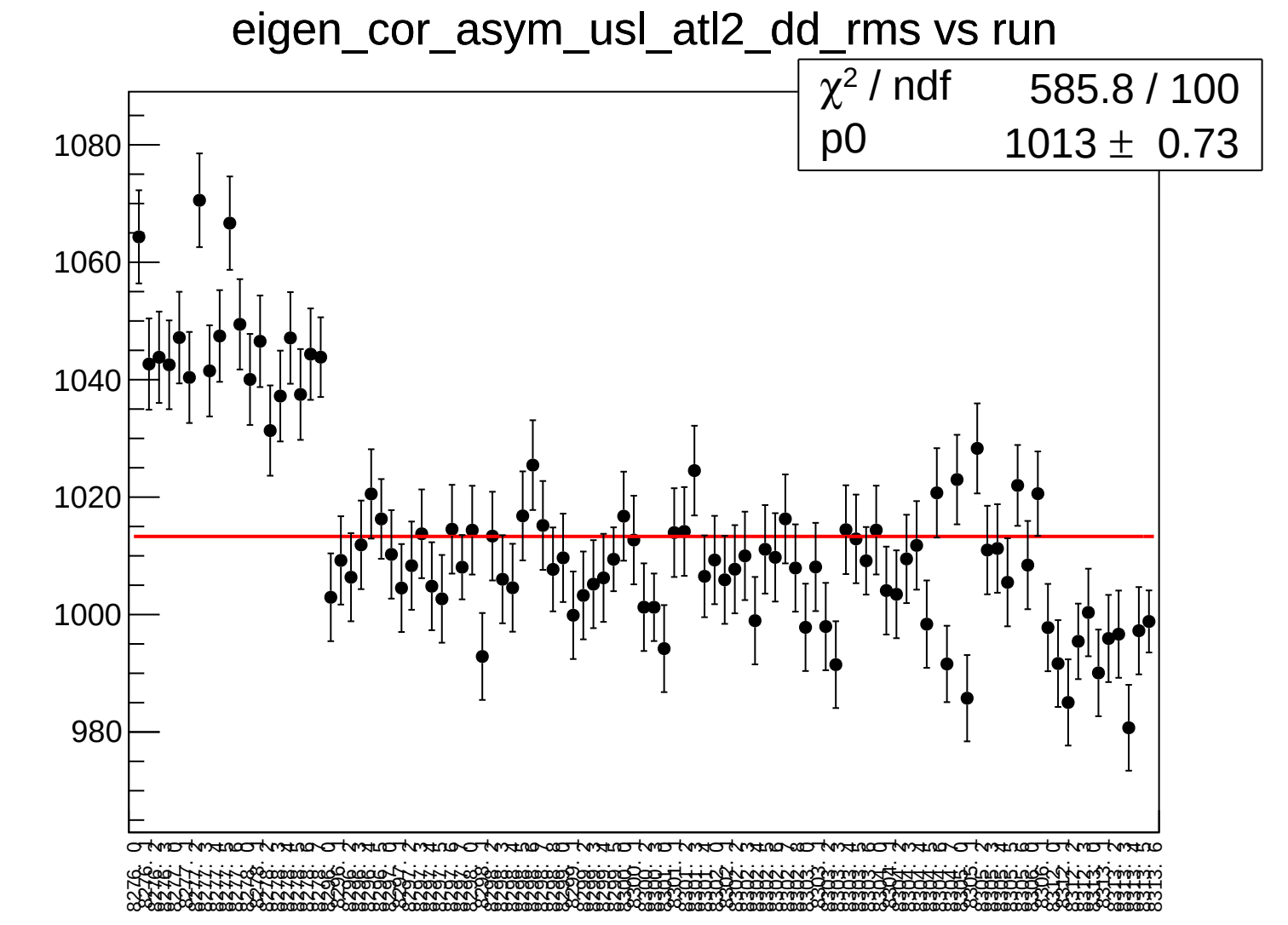

cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 585.8 / 100
p0 1013 ± 0.73
1080
1060
1040
1020
1000
980

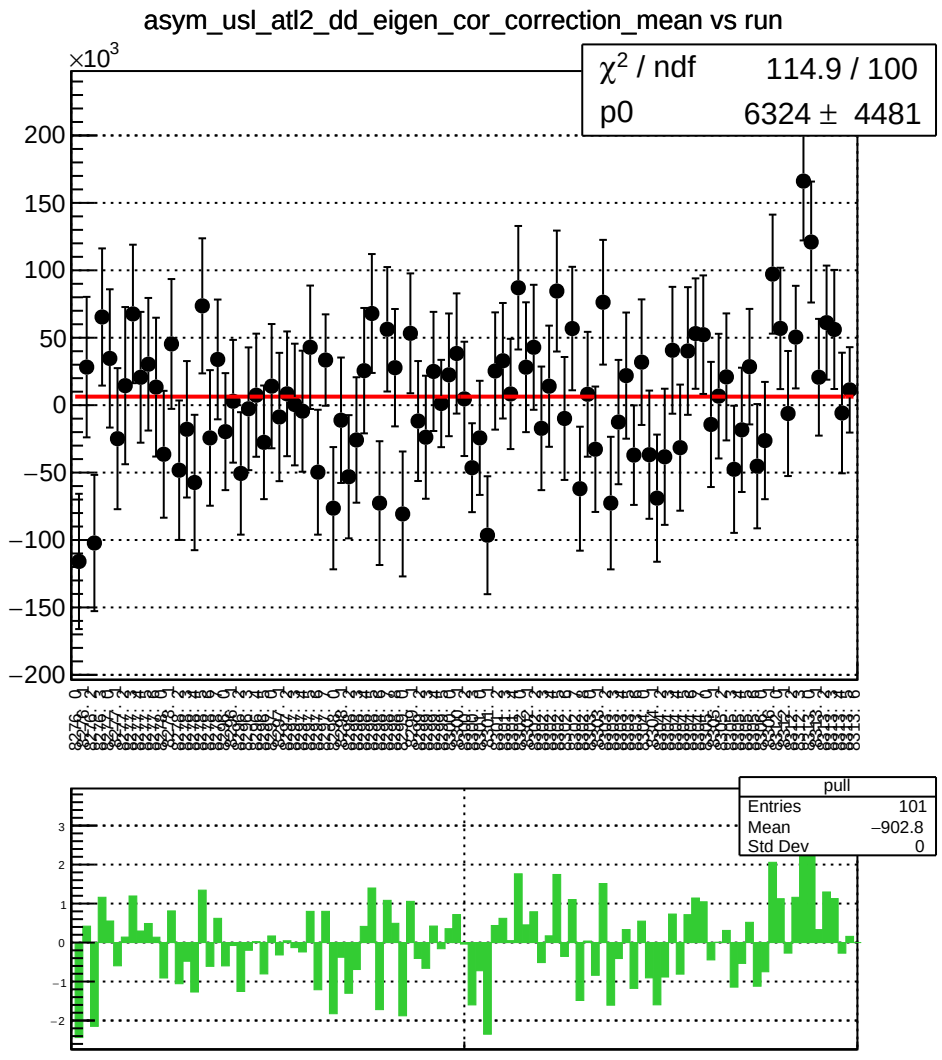

asym_usl_atl2_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 114.9 / 100
p0 6324 ± 4481
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 101
Mean −902.8
Std Dev 0
3
2
1
0
−1
−2

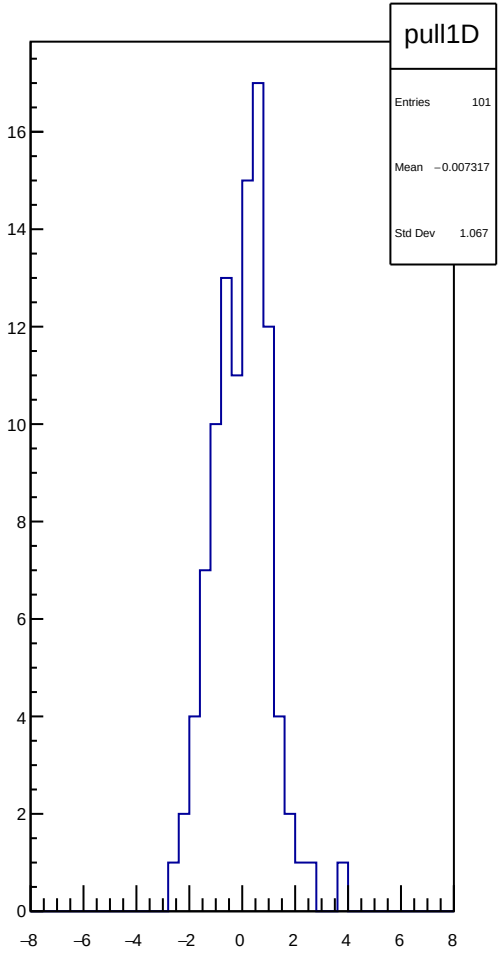

pull1D
Entries 101
Mean −0.007317
Std Dev 1.067
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

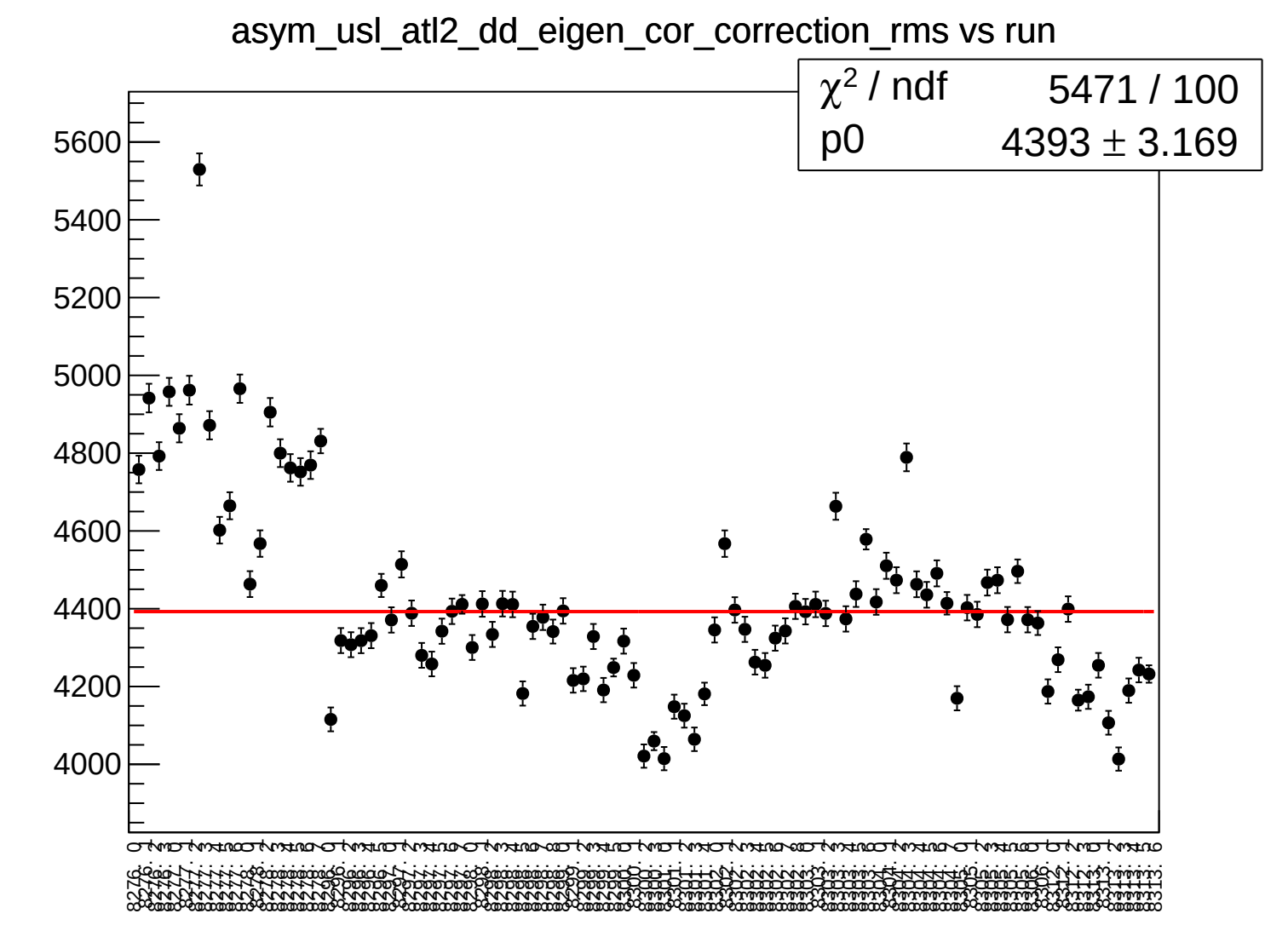

asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 5471 / 100
p0 4393 ± 3.169
5600
5400
5200
5000
4800
4600
4400
4200
4000

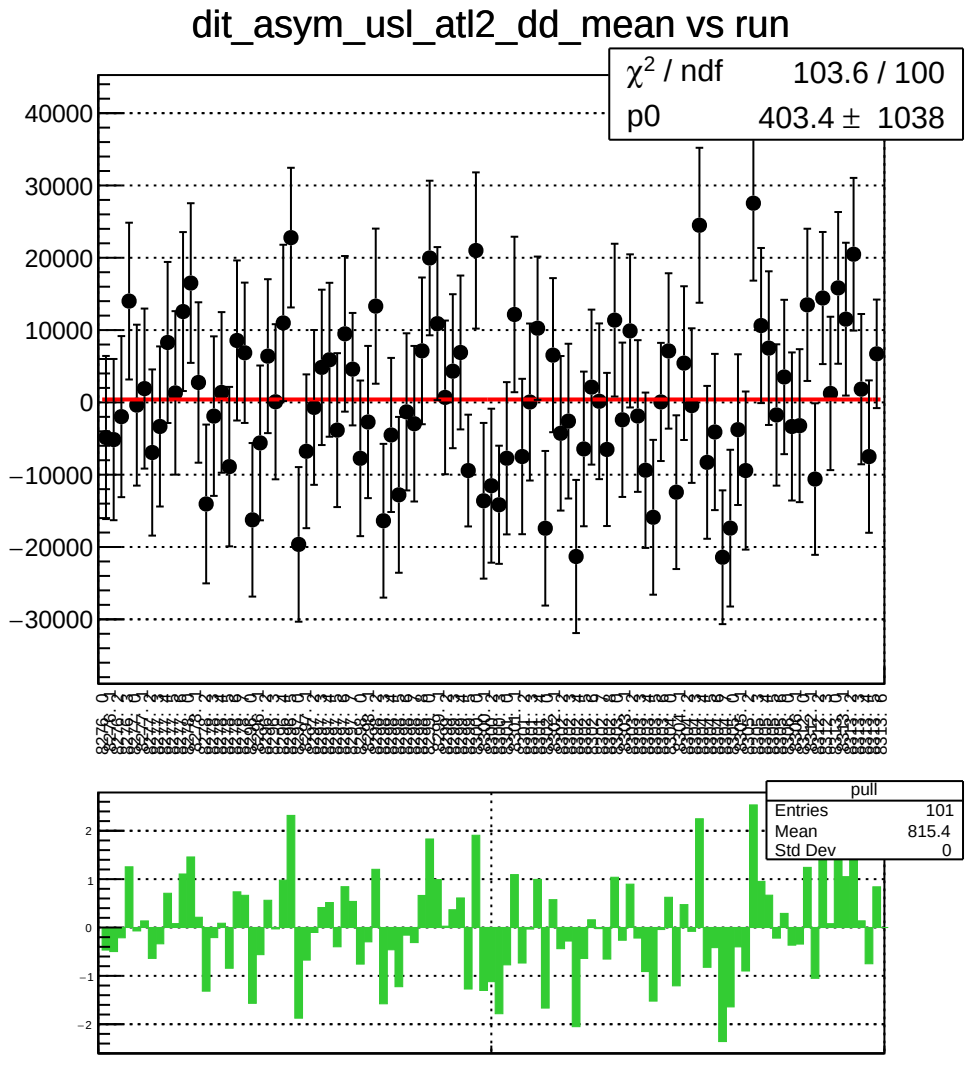

eigen_cor_asym_usl_atl2_dd_mean vs run
χ^2 / ndf 104.8 / 100
p0 200.4 ± 1032
pull
Entries 101
Mean 912.8
Std Dev 0
pull1D
Entries 101
Mean 0.001227
Std Dev 1.019

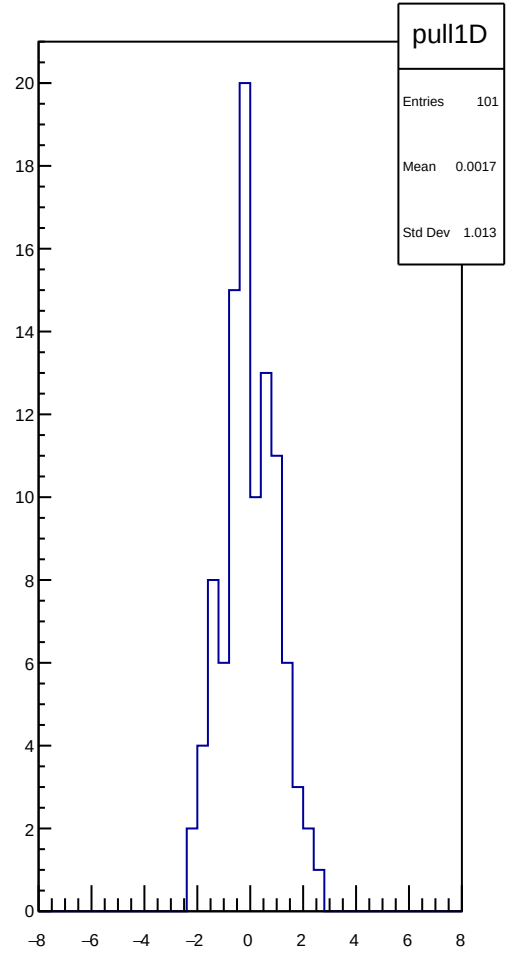

eigen_cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 585.8 / 100
p0 1013 ± 0.73
1080
1060
1040
1020
1000
980

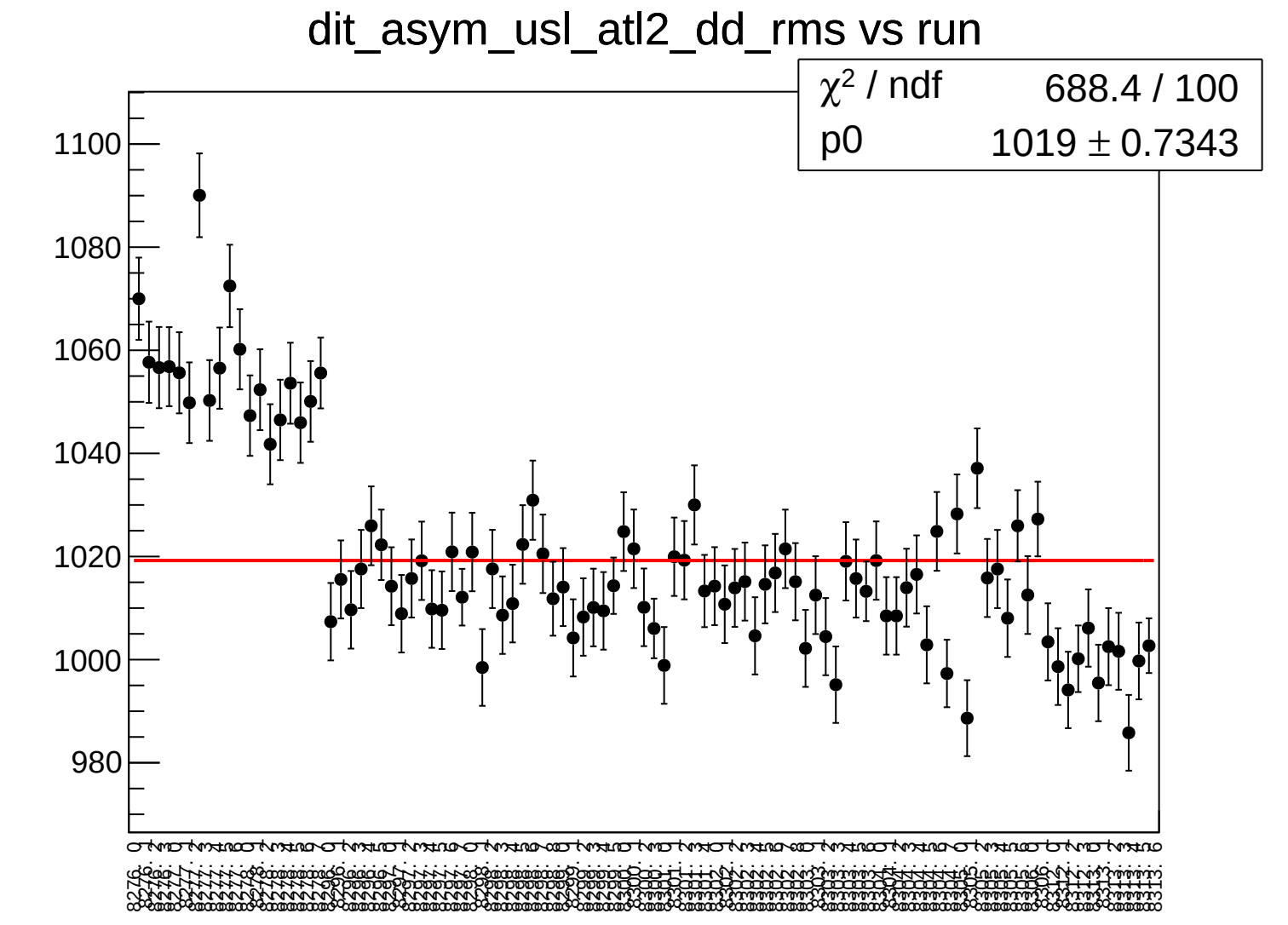

asym_usl_atl2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 114.9 / 100
p0 6324 ± 4481
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 101
Mean −902.8
Std Dev 0
3
2
1
0
−1
−2

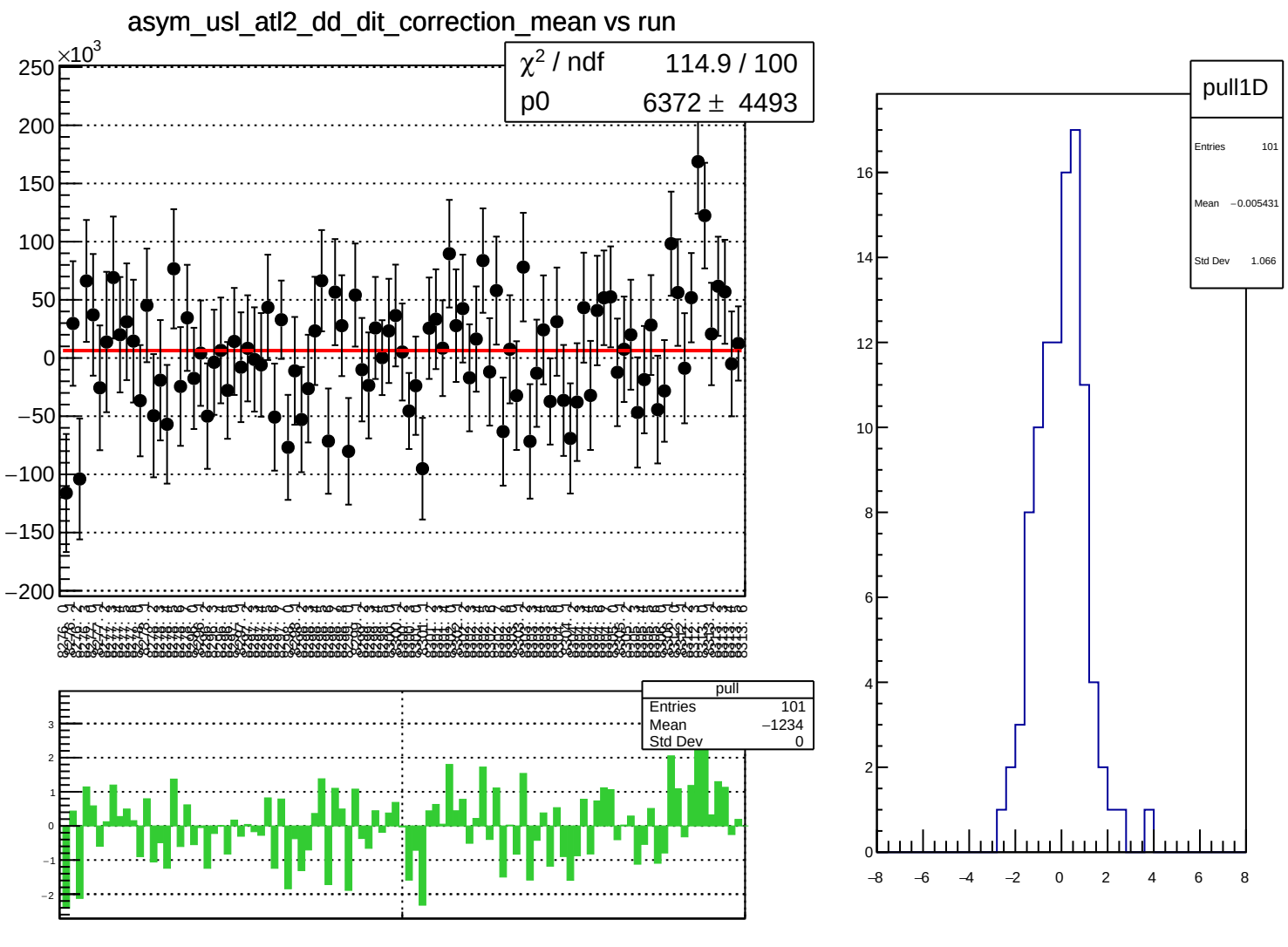

pull1D
Entries 101
Mean −0.007317
Std Dev 1.067
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

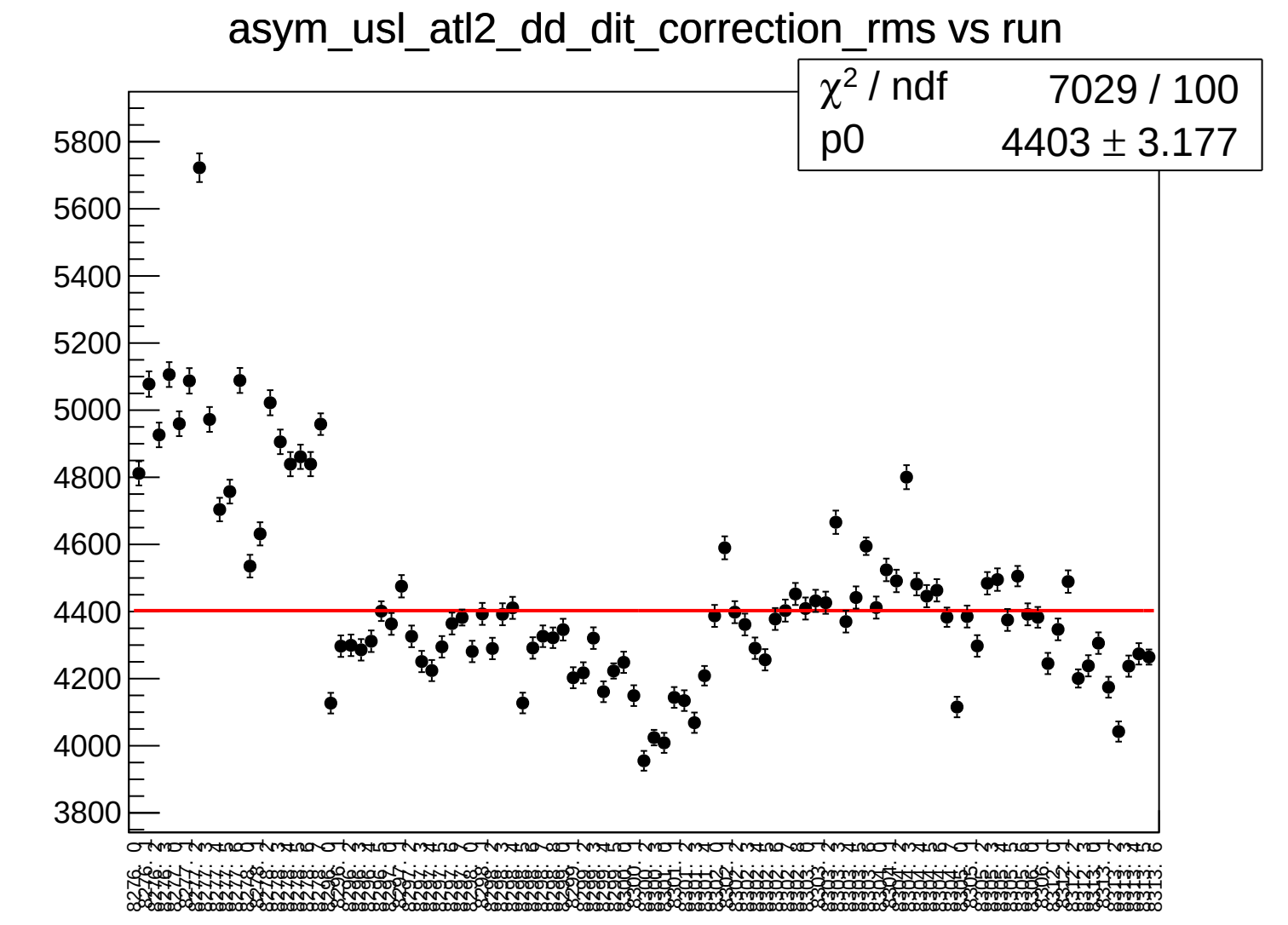

asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 5471 / 100
p0 4393 ± 3.169
5600
5400
5200
5000
4800
4600
4400
4200
4000

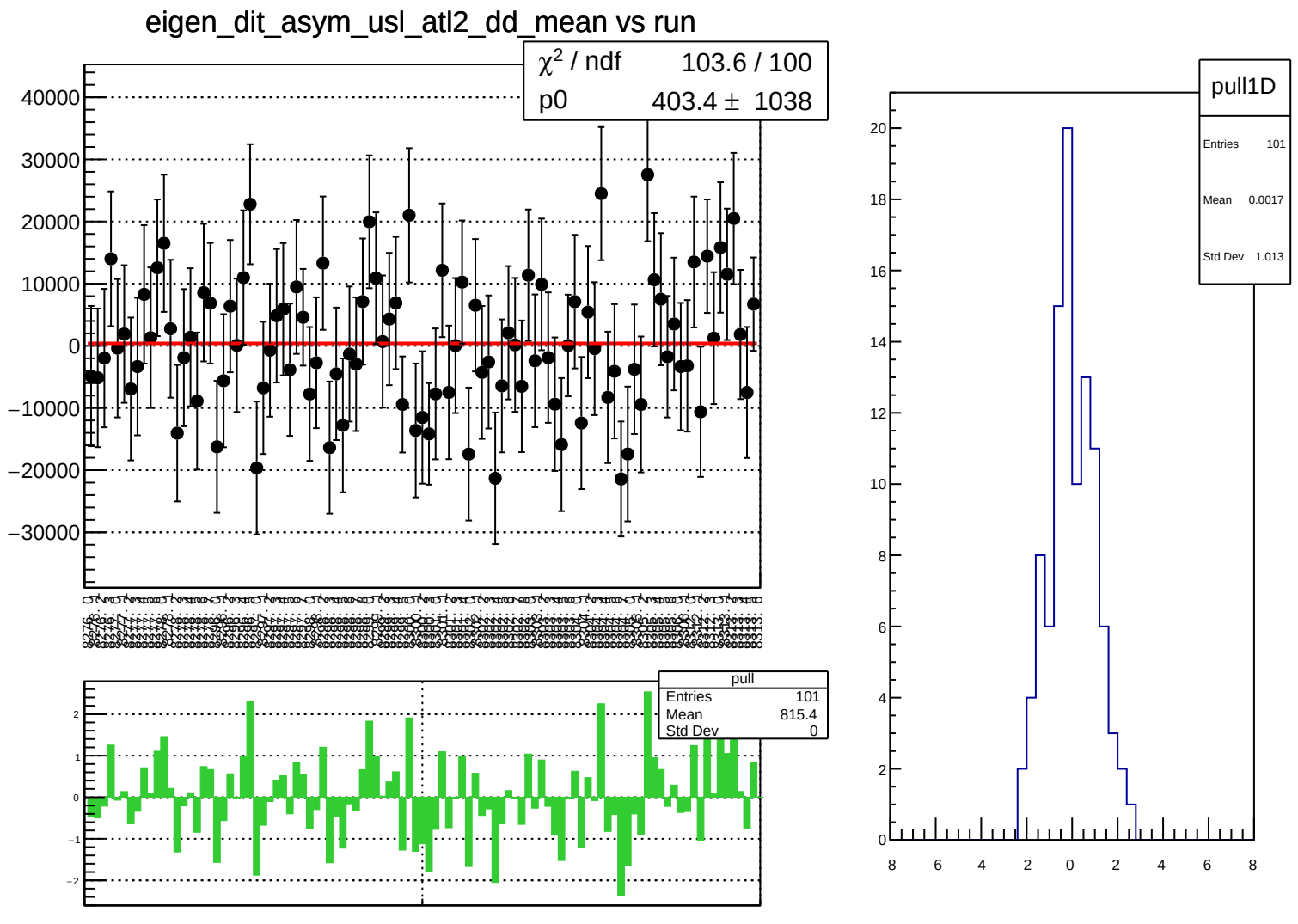

dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 103.6 / 100
p0 403.4 ± 1038
pull
Entries 101
Mean 815.4
Std Dev 0

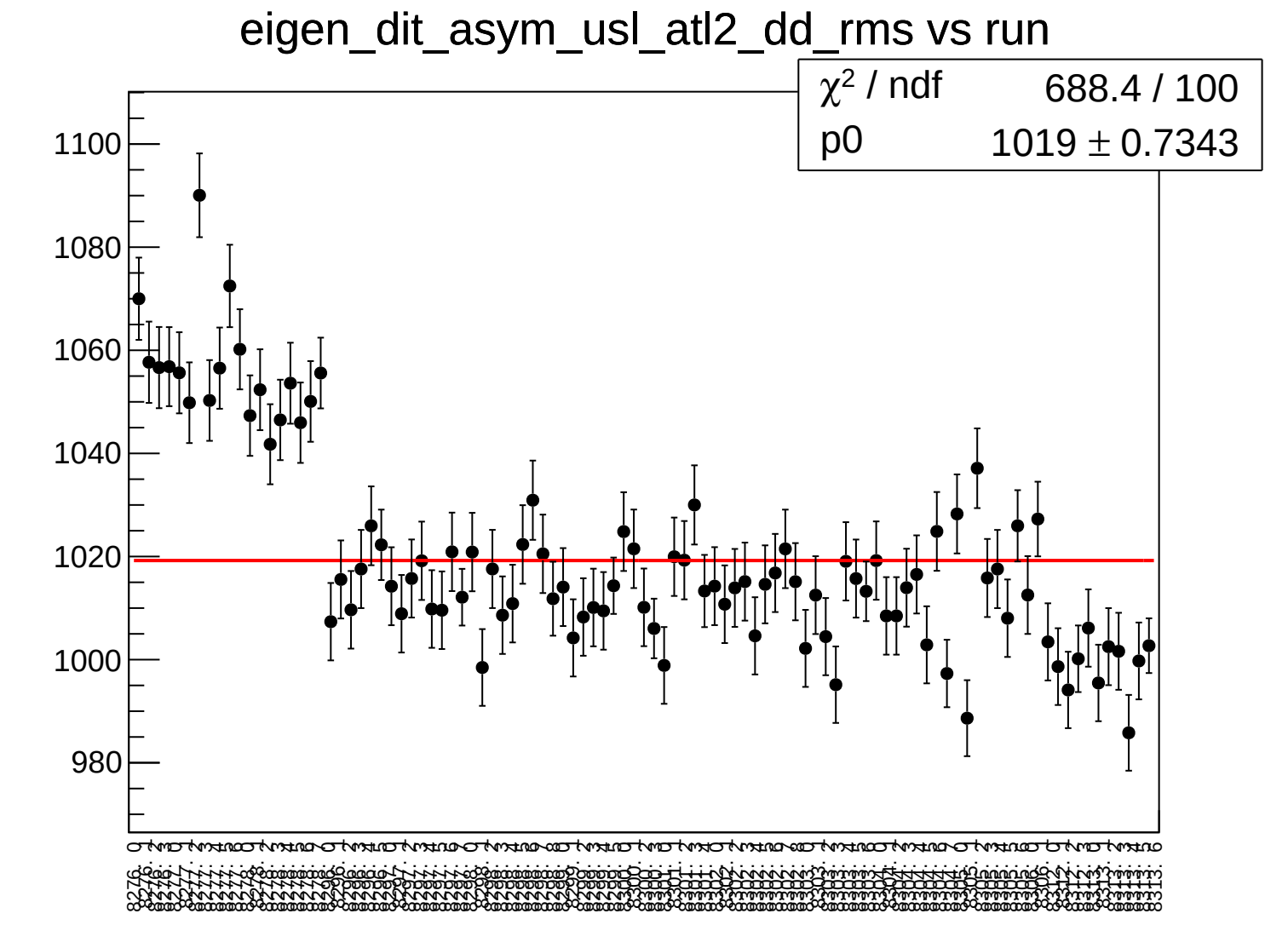

pull1D
Entries 101
Mean 0.0017
Std Dev 1.013

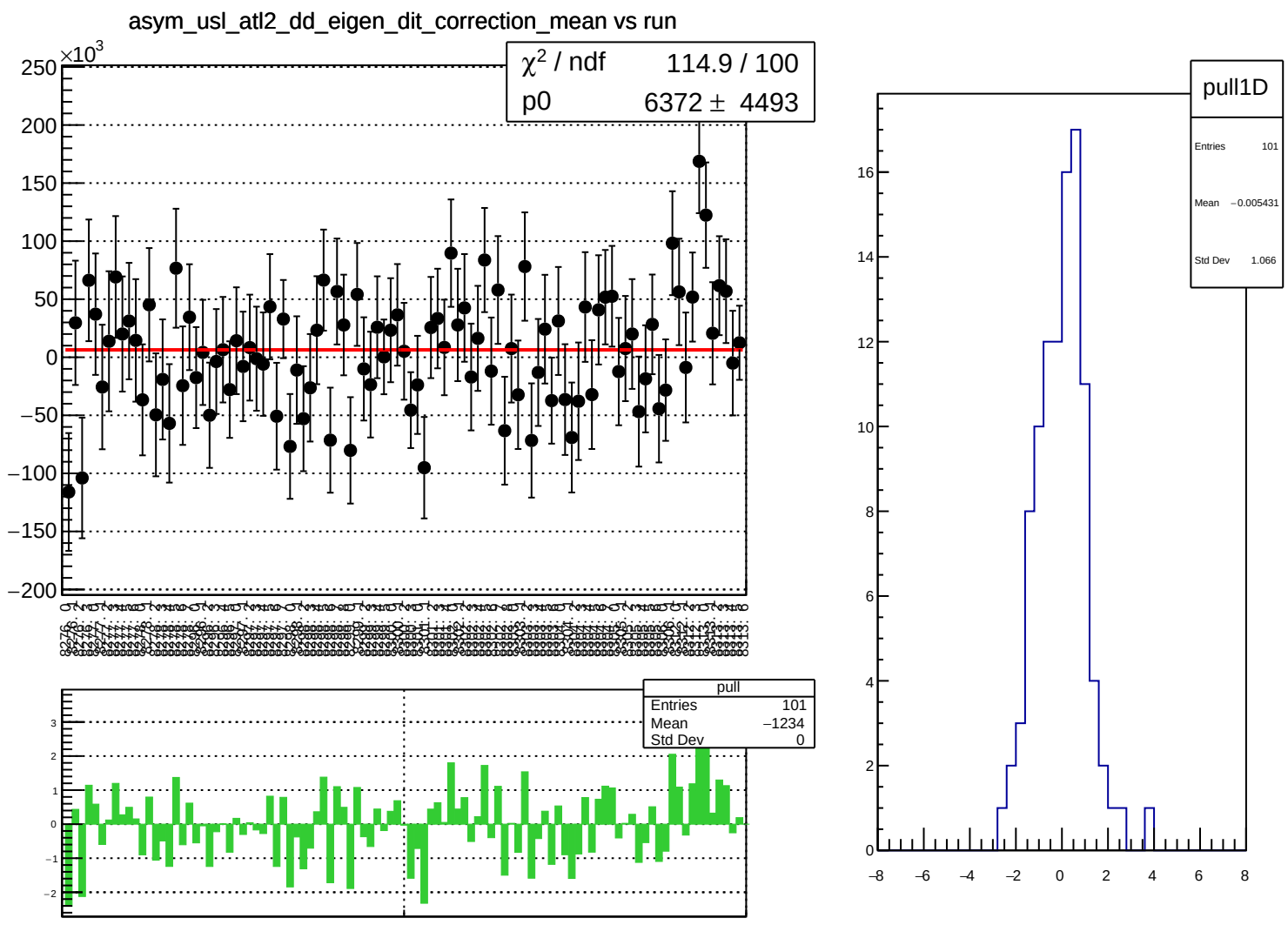

dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 688.4 / 100
p0 1019 ± 0.7343
1100
1080
1060
1040
1020
1000
980

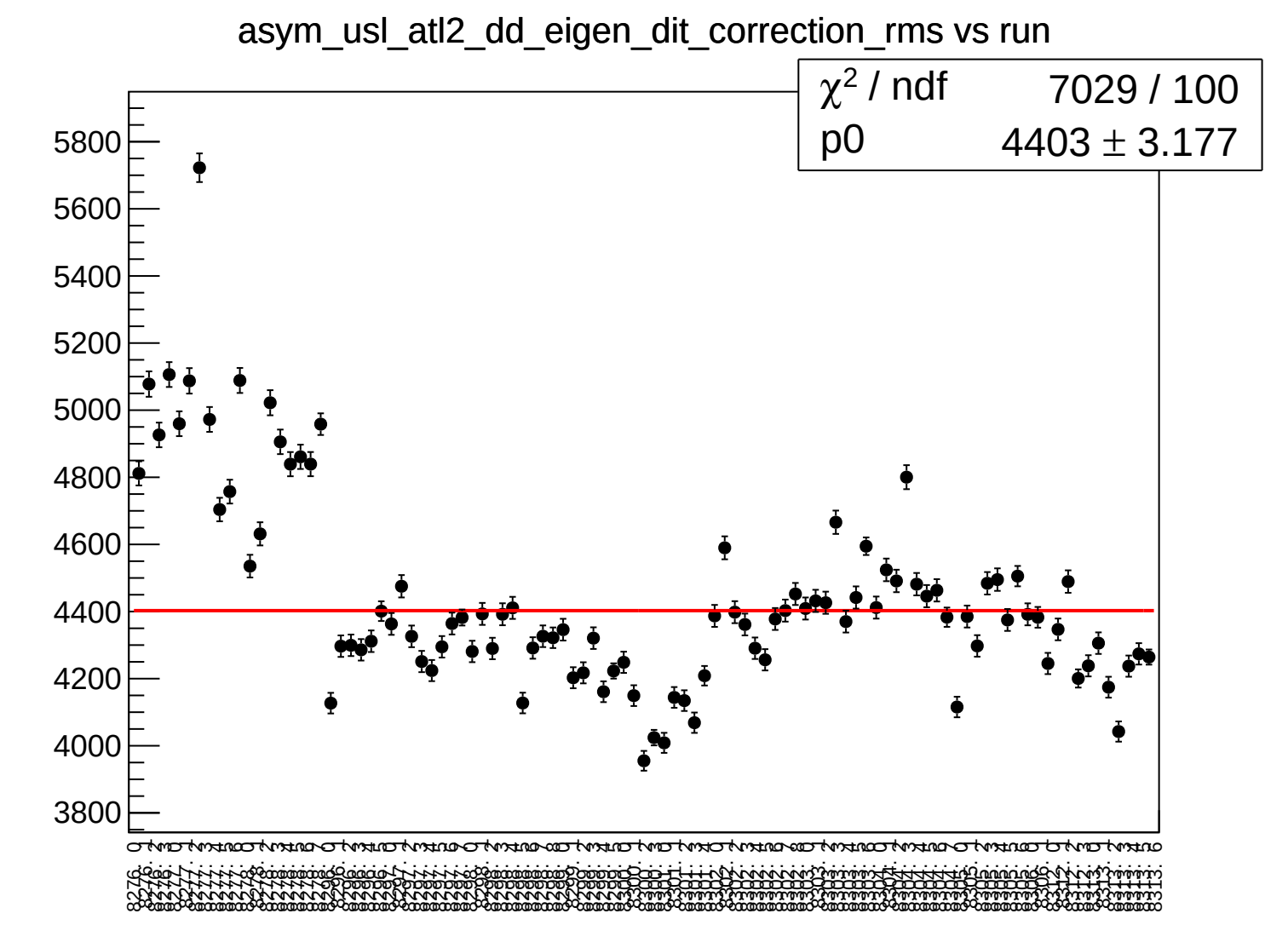

asym_usl_atl2_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 114.9 / 100
p0 6372 ± 4493
pull
Entries 101
Mean −1234
Std Dev 0
pull1D
Entries 101
Mean −0.005431
Std Dev 1.066

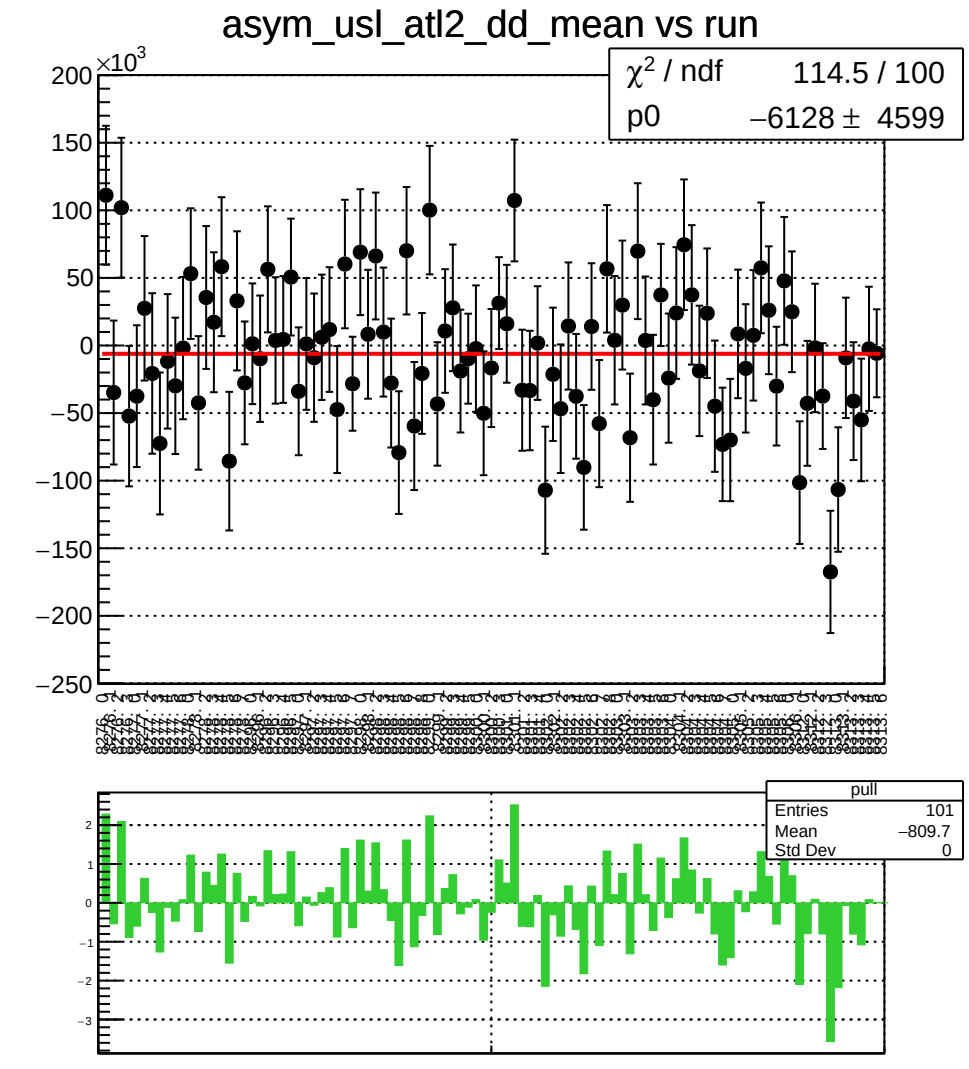

asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 7029 / 100
p0 4403 ± 3.177
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800

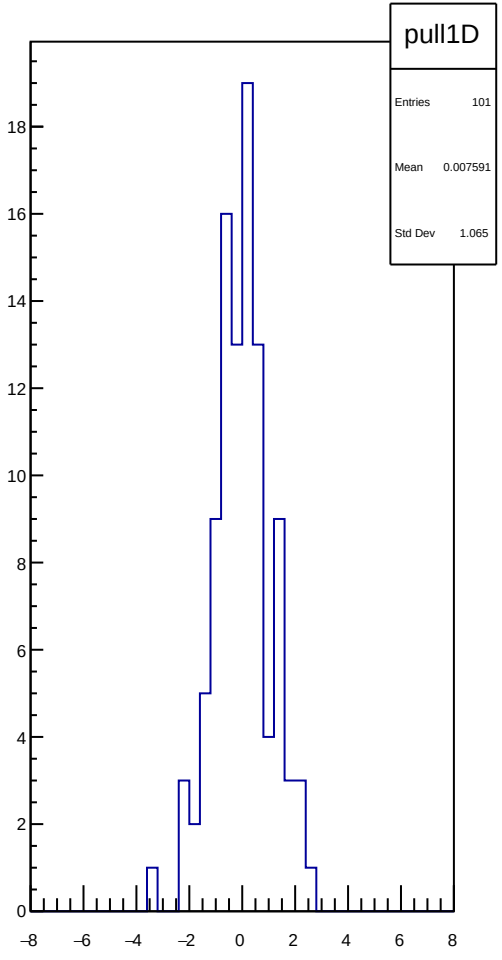

eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 103.6 / 100
p0 403.4 ± 1038
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 101
Mean 815.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.0017
Std Dev 1.013
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

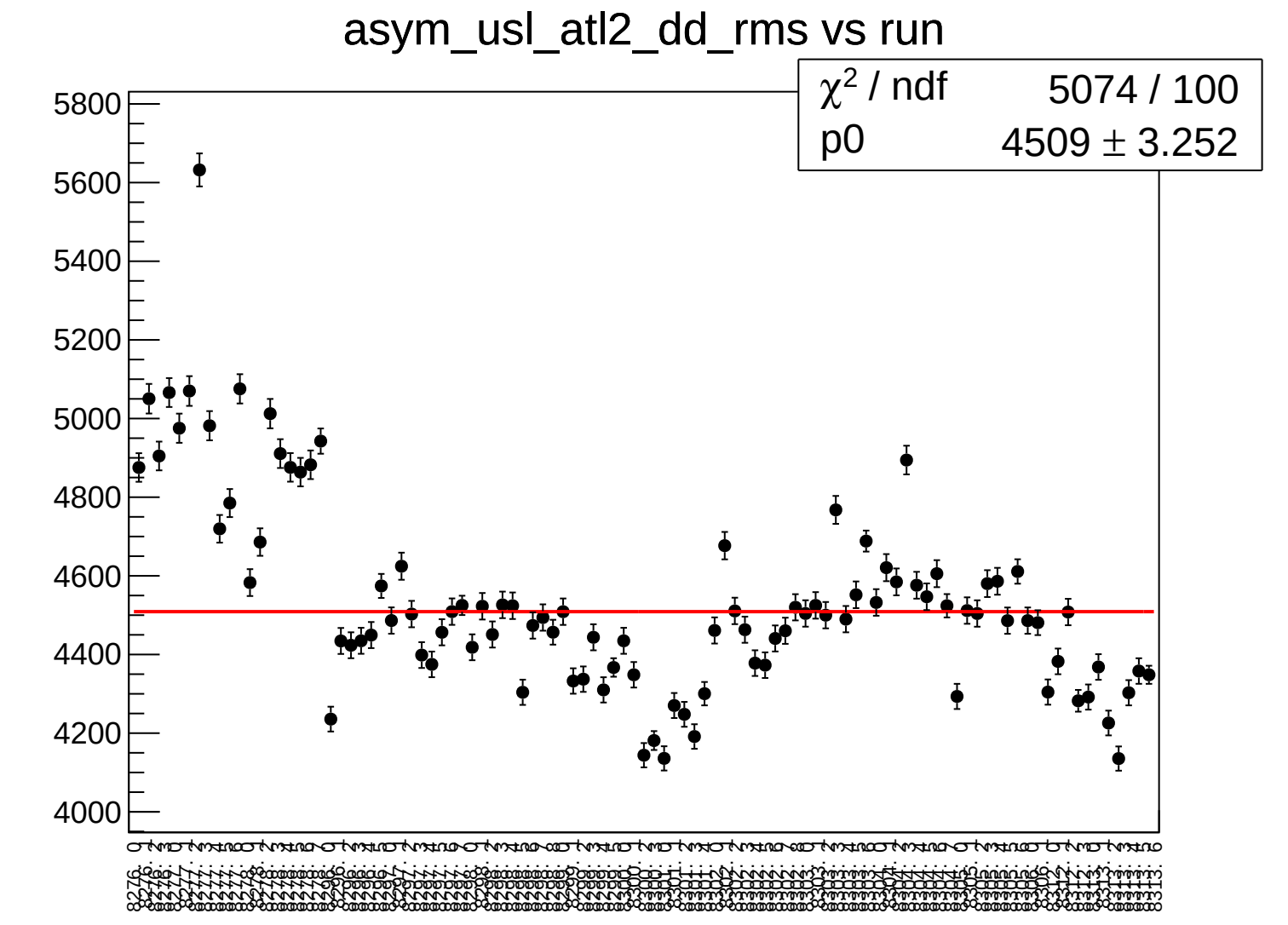

eigen_dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 688.4 / 100
p0 1019 ± 0.7343
1100
1080
1060
1040
1020
1000
980

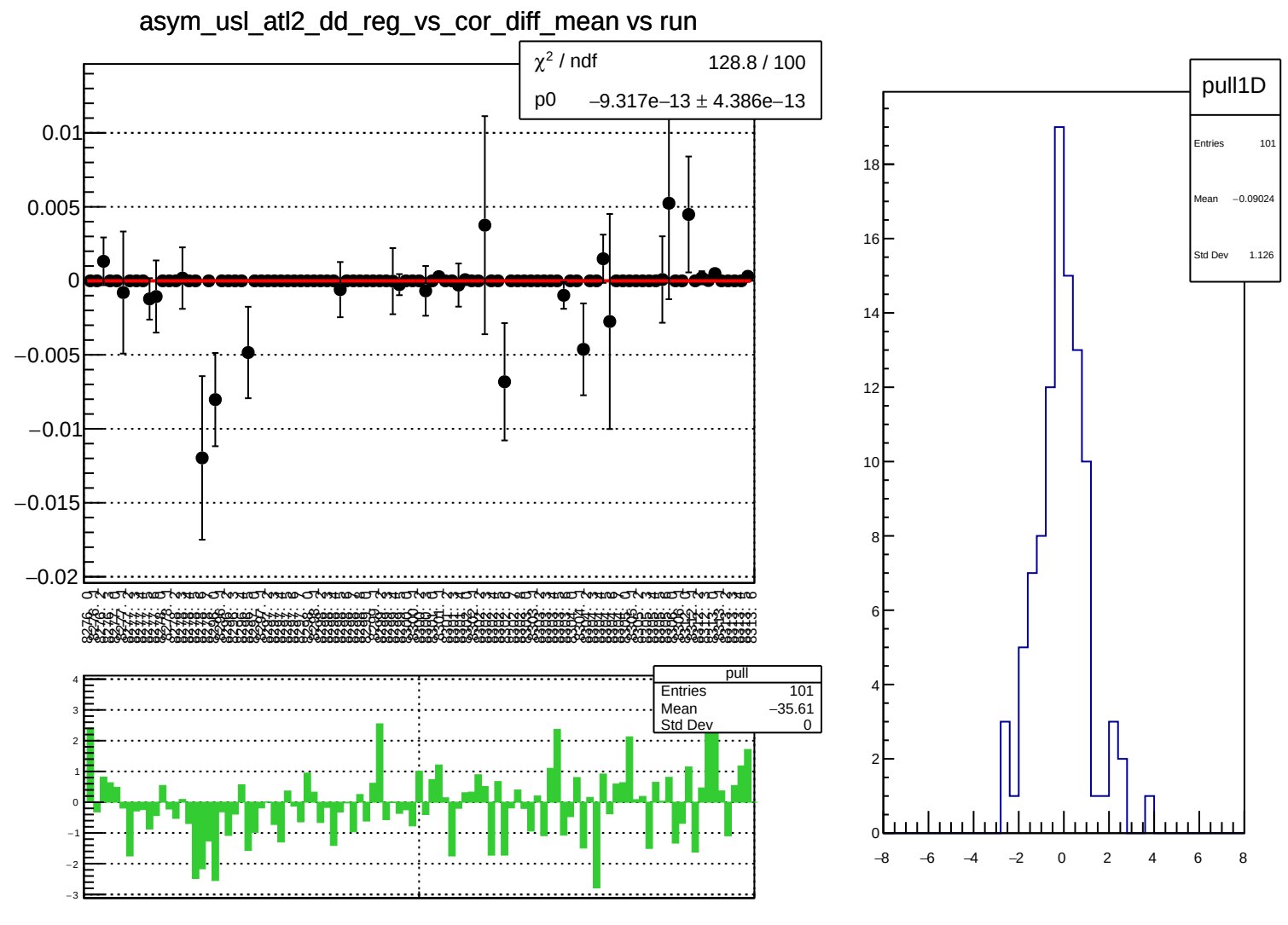

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 114.9 / 100
p0 6372 ± 4493
pull
Entries 101
Mean −1234
Std Dev 0
pull1D
Entries 101
Mean −0.005431
Std Dev 1.066

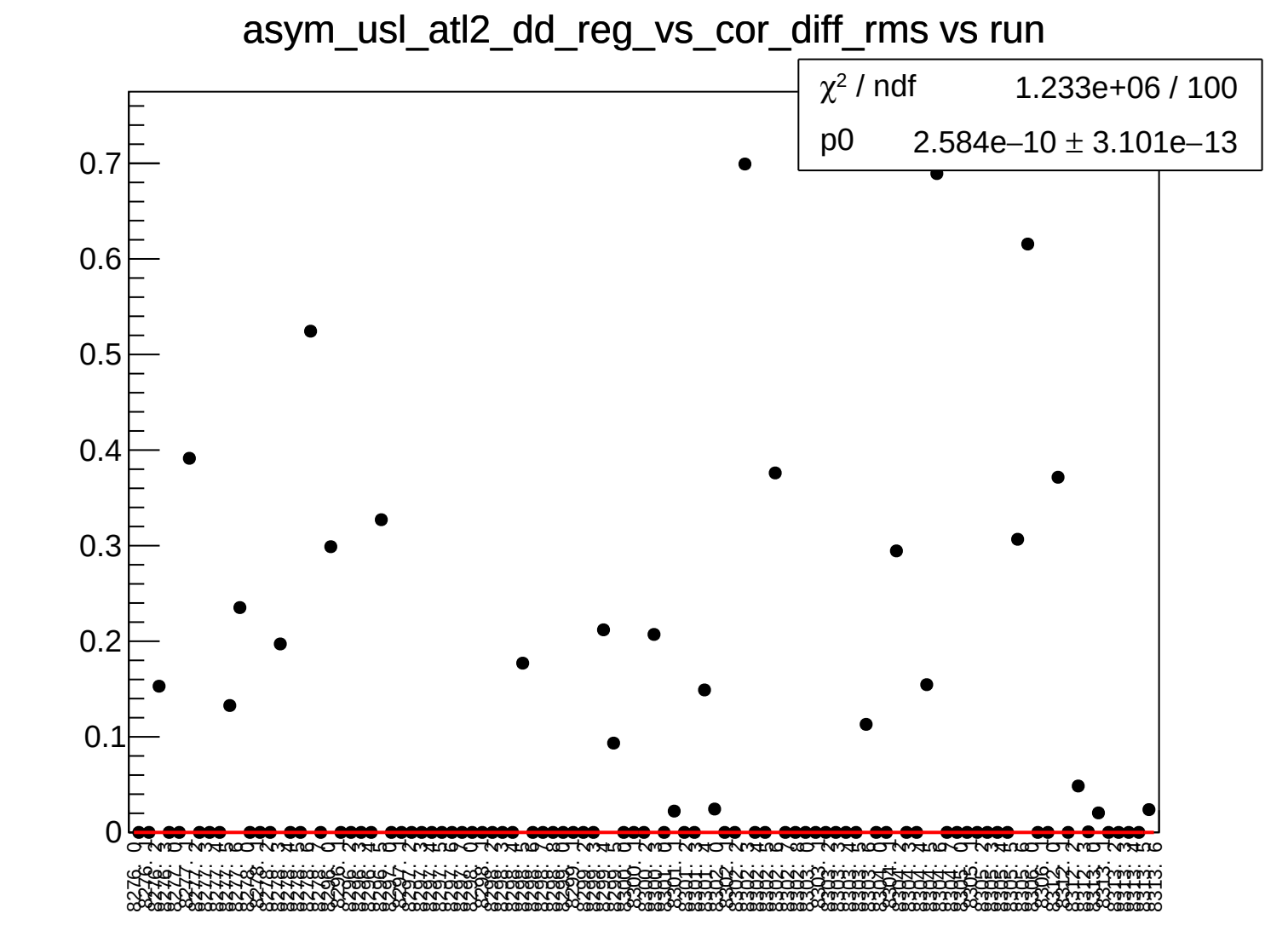

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 7029 / 100
p0 4403 ± 3.177
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800

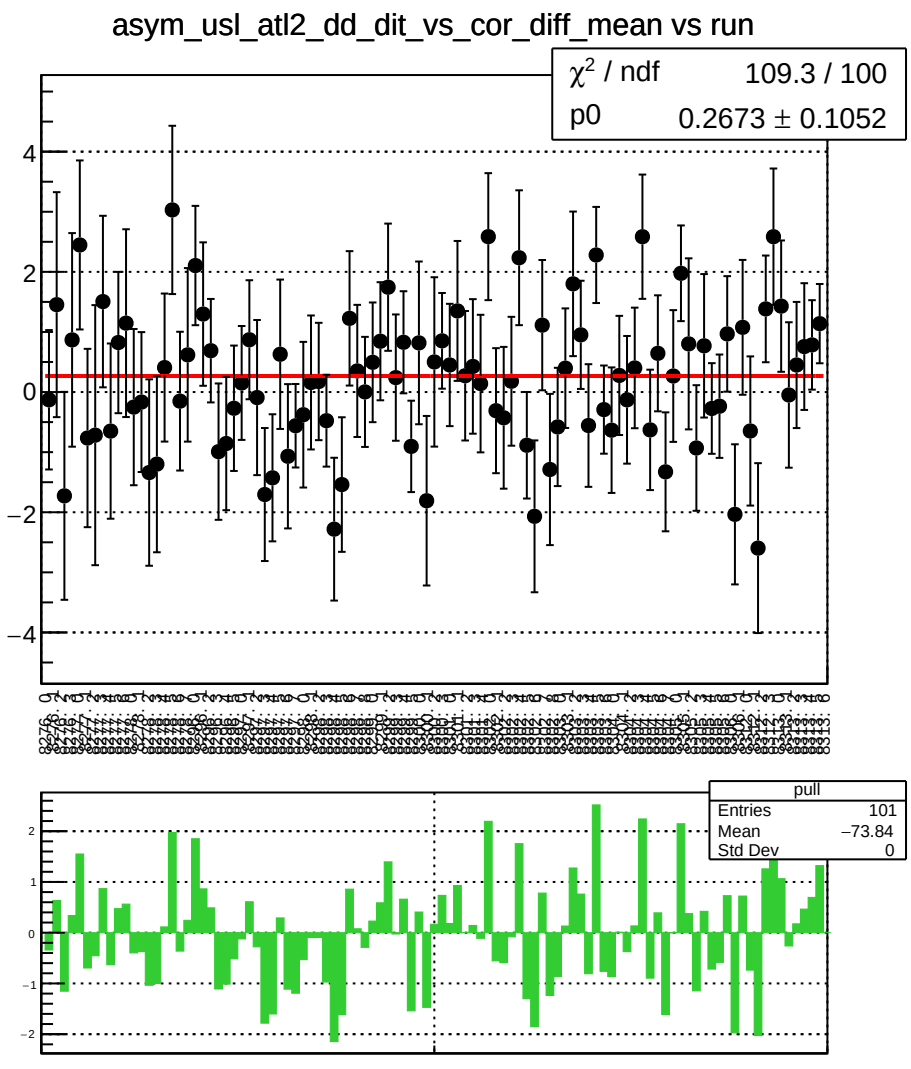

asym_usl_atl2_dd_mean vs run
χ² / ndf 114.5 / 100
p0 −6128 ± 4599
×10³
pull
Entries 101
Mean −809.7
Std Dev 0

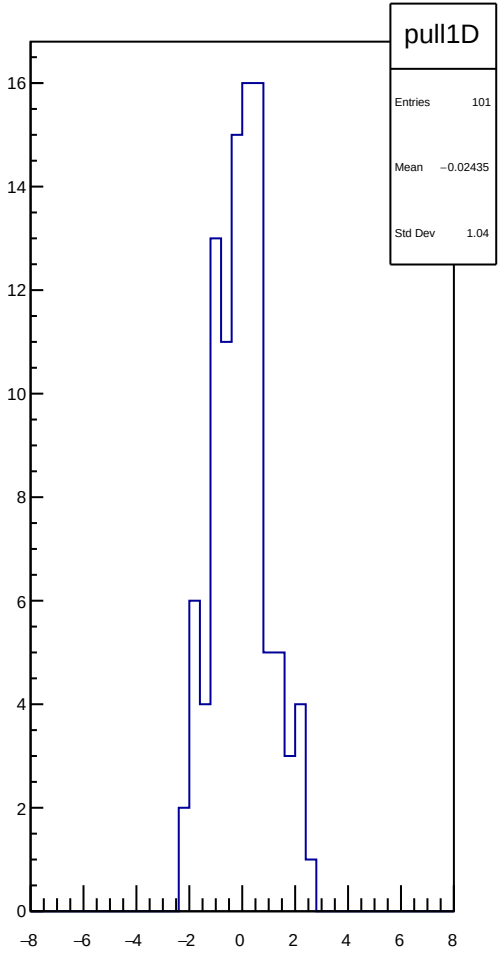

pull1D
Entries 101
Mean 0.007591
Std Dev 1.065

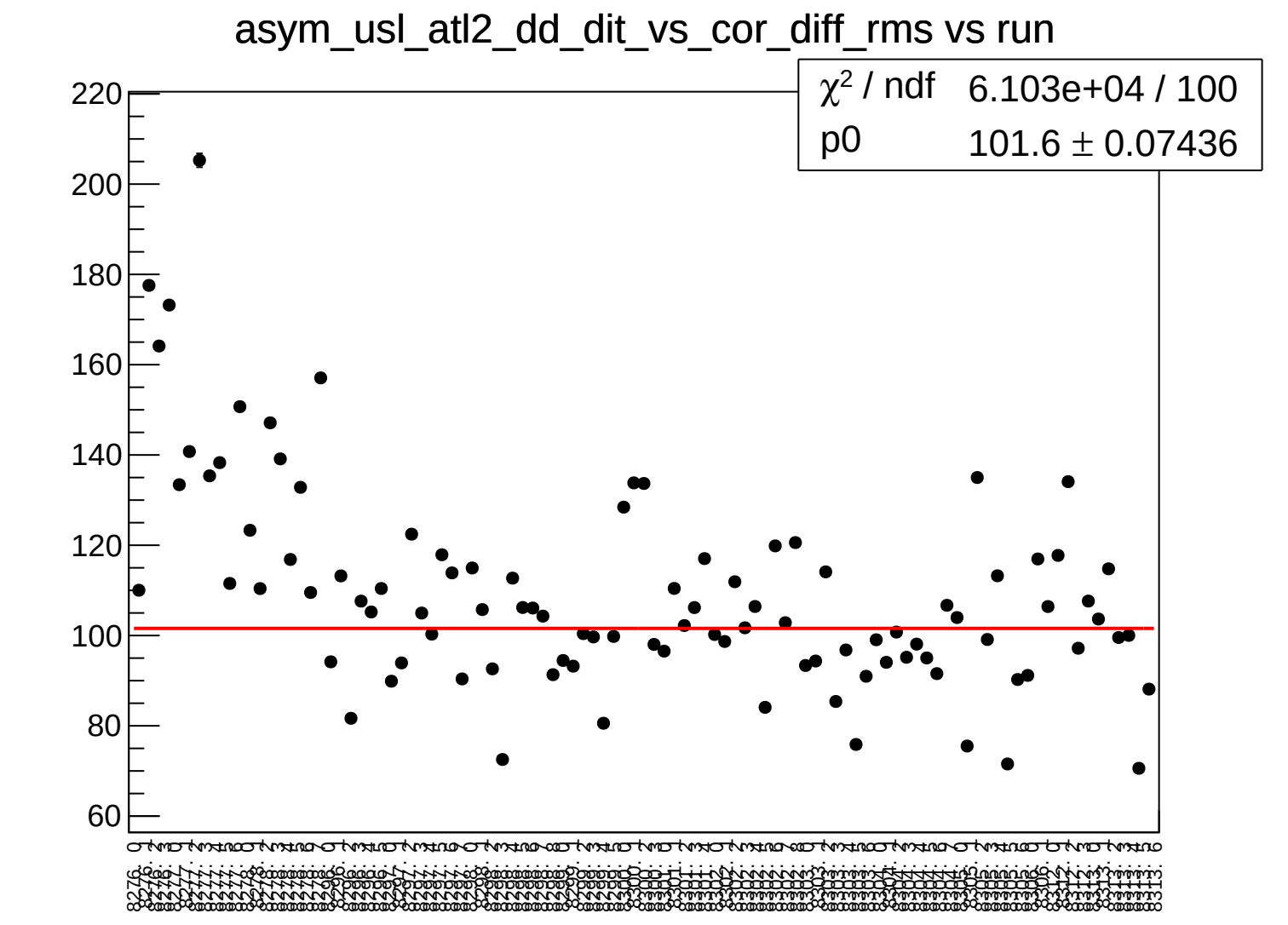

asym_usl_atl2_dd_rms vs run
χ² / ndf 5074 / 100
p0 4509 ± 3.252
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000

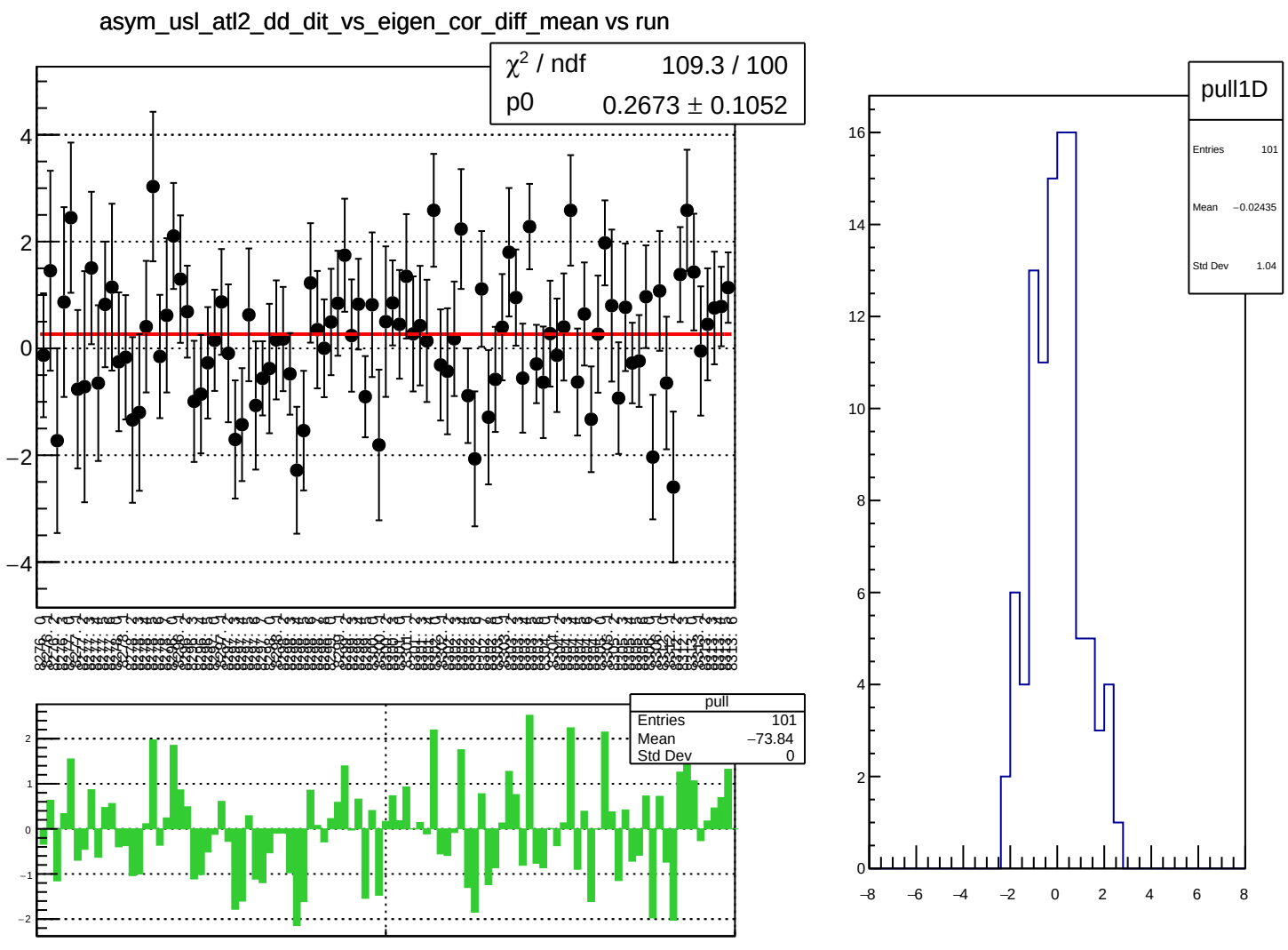

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 128.8 / 100
p0 −9.317e−13 ± 4.386e−13
pull
Entries 101
Mean −35.61
Std Dev 0
pull1D
Entries 101
Mean −0.09024
Std Dev 1.126

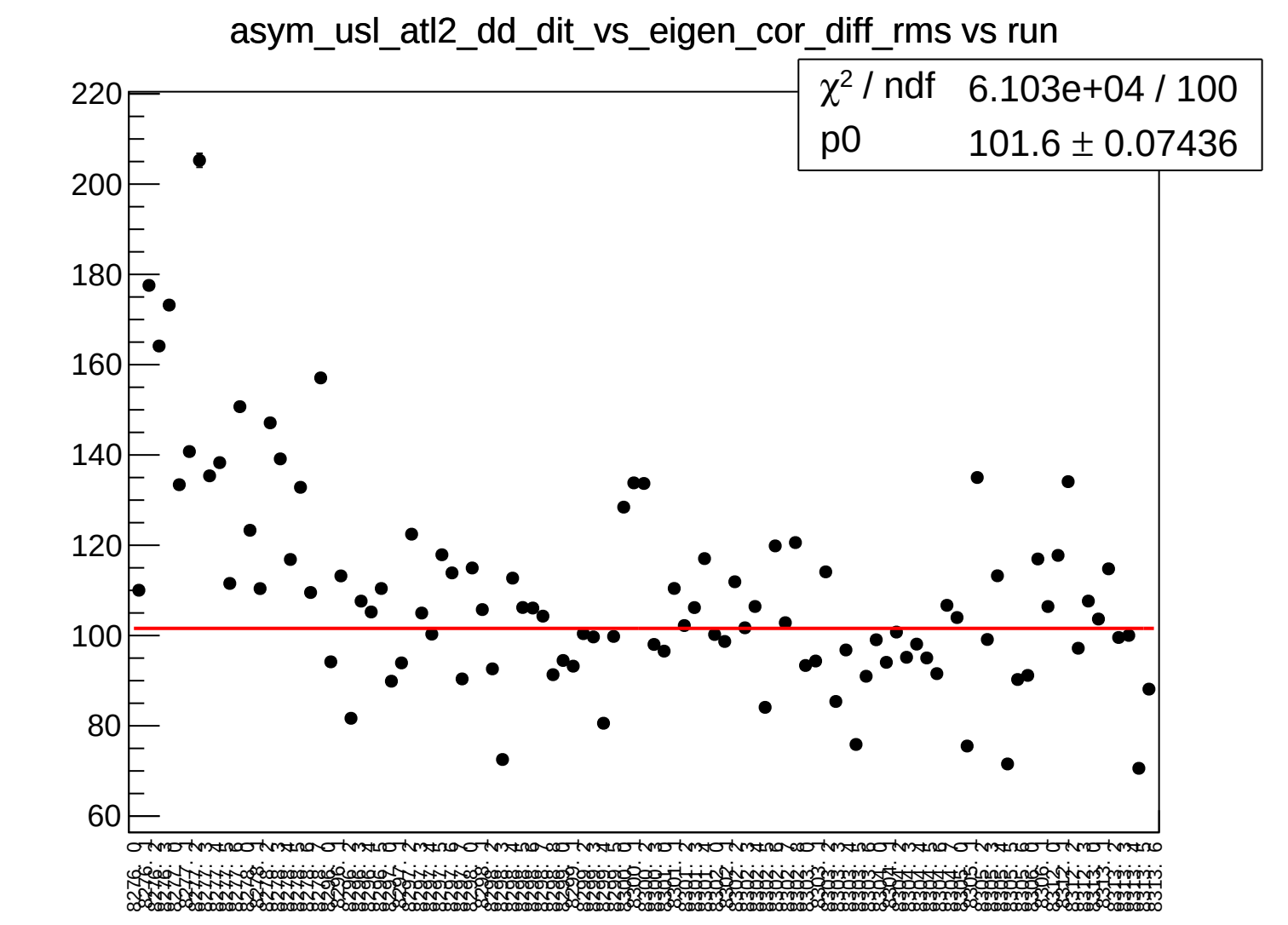

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.233e+06 / 100
p0 2.584e−10 ± 3.101e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

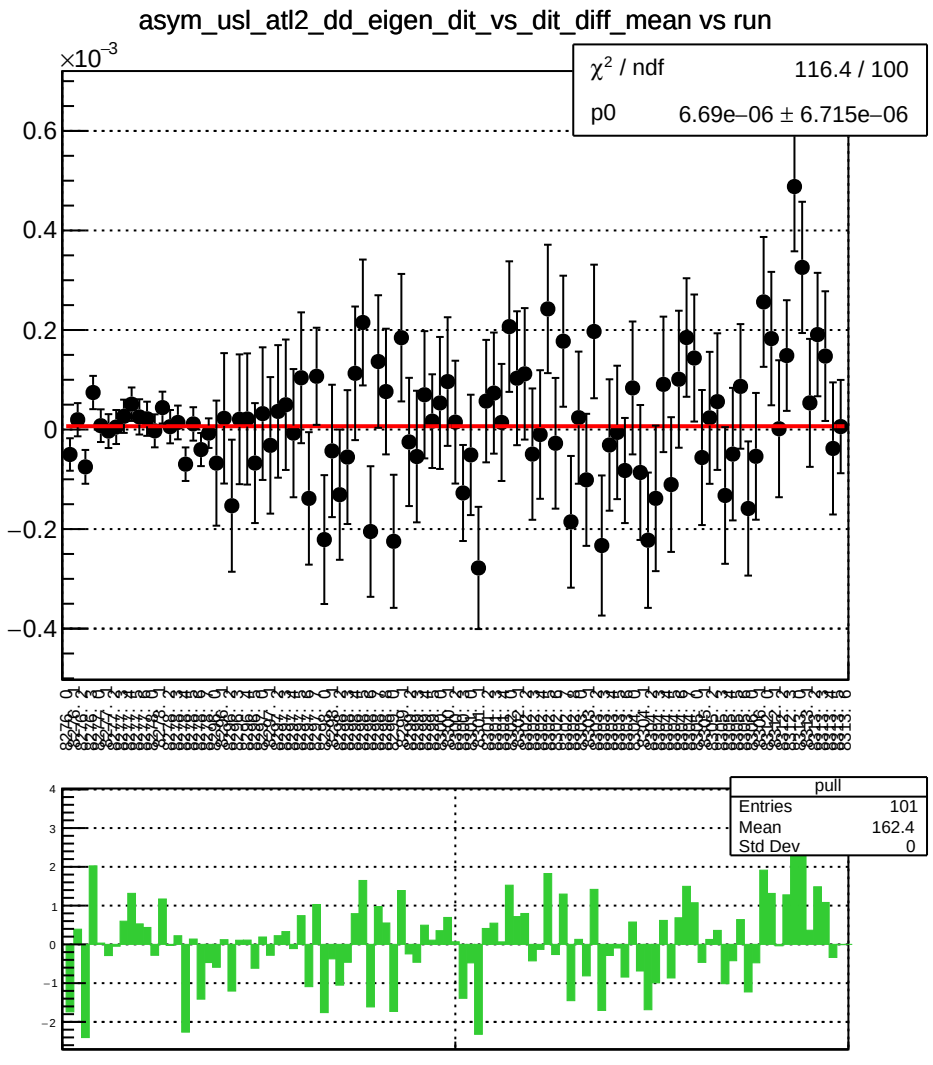

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 109.3 / 100
p0 0.2673 ± 0.1052
pull
Entries 101
Mean −73.84
Std Dev 0

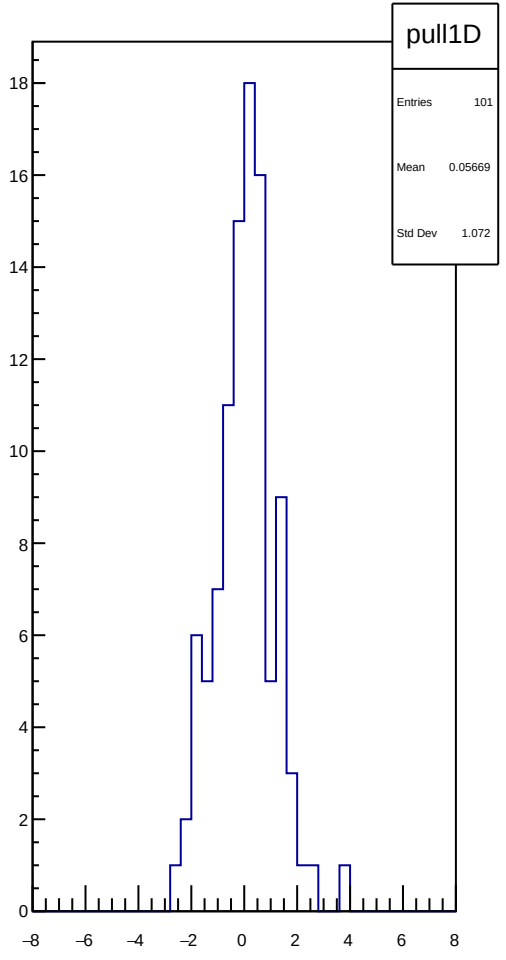

pull1D
Entries 101
Mean −0.02435
Std Dev 1.04

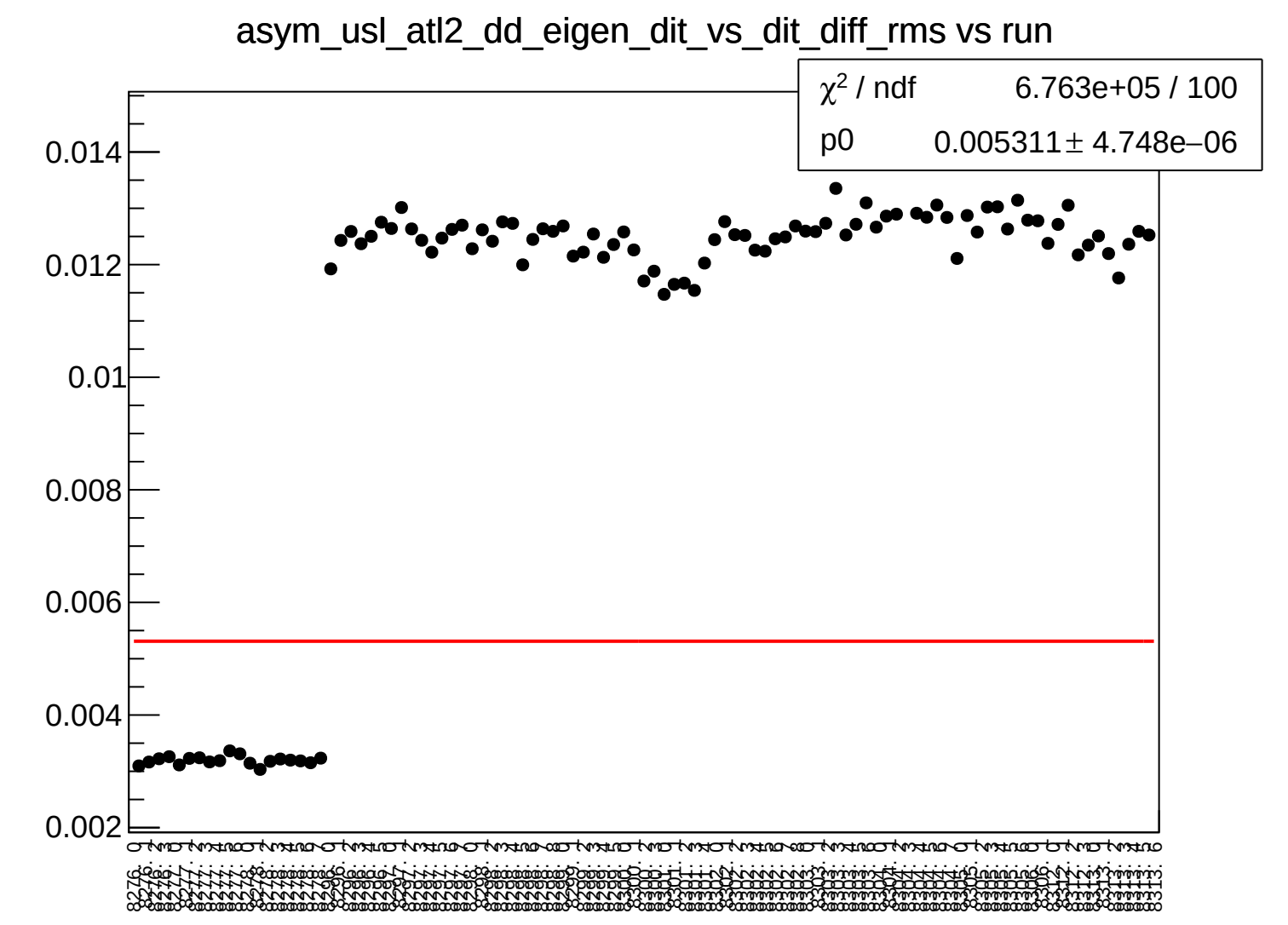

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.103e+04 / 100
p0 101.6 ± 0.07436
220
200
180
160
140
120
100
80
60

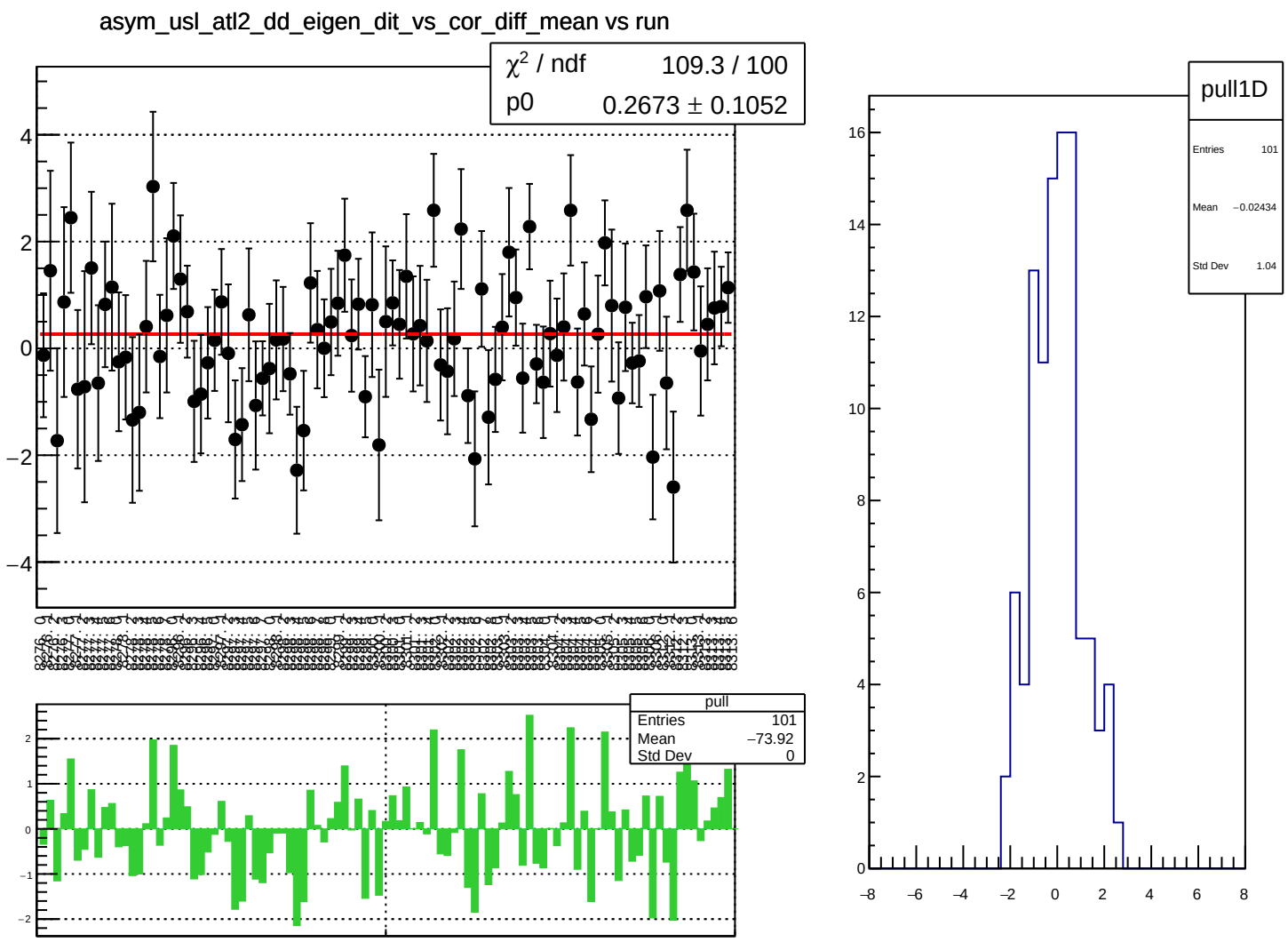

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.3 / 100
p0 0.2673 ± 0.1052
pull
Entries 101
Mean −73.84
Std Dev 0
pull1D
Entries 101
Mean −0.02435
Std Dev 1.04

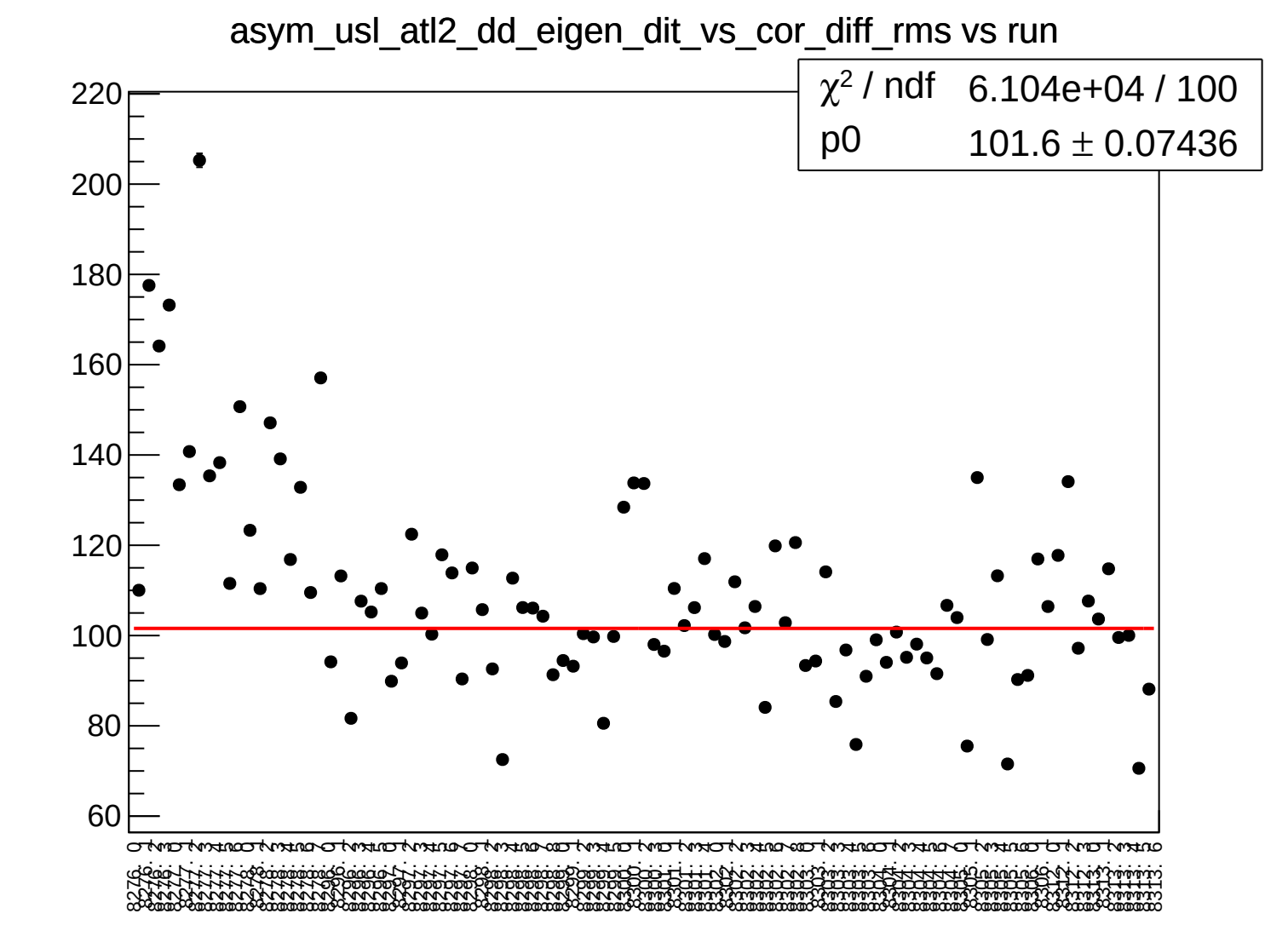

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.103e+04 / 100
p0 101.6 ± 0.07436
220
200
180
160
140
120
100
80
60

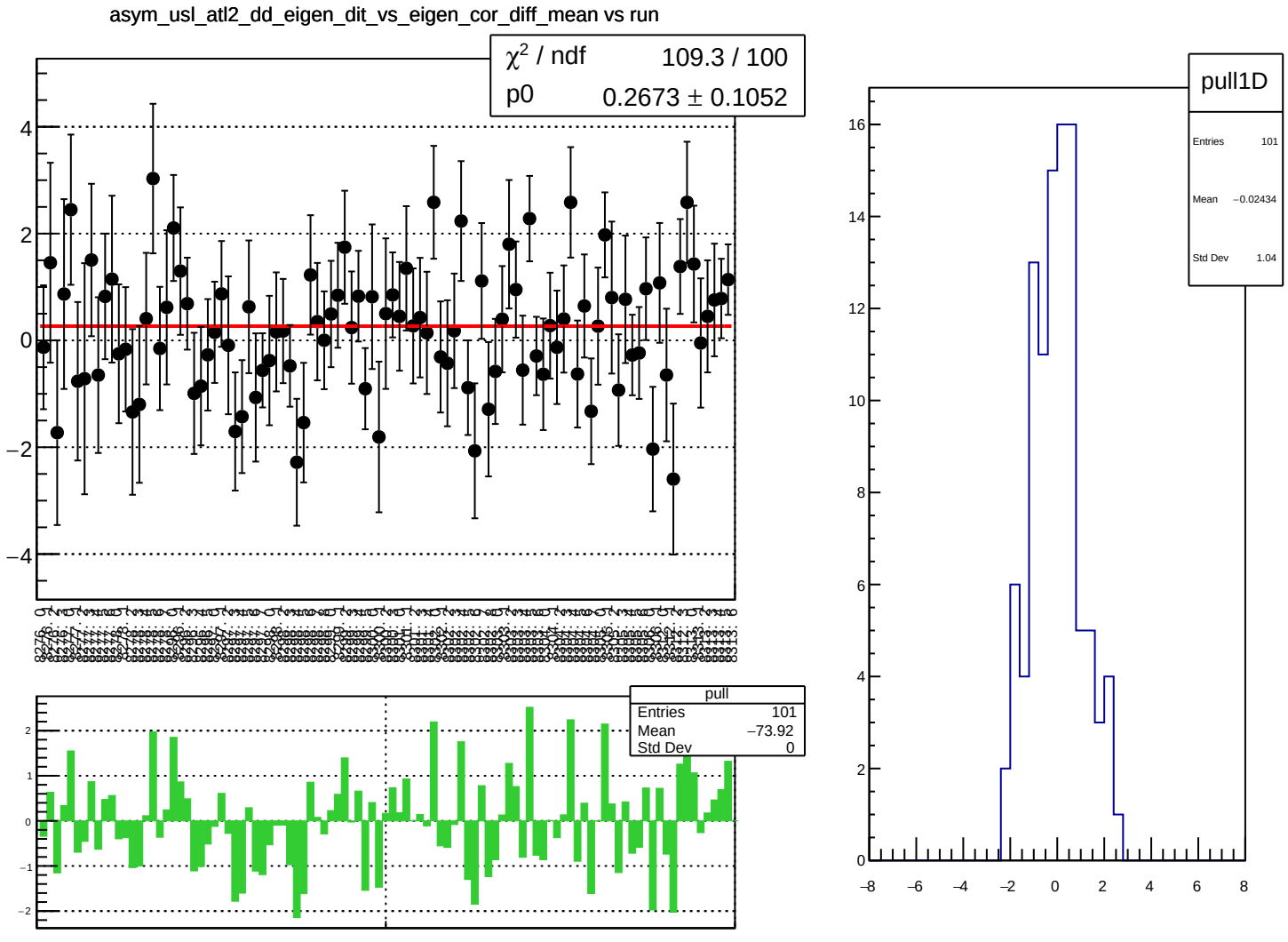

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 116.4 / 100
p0 6.69e−06 ± 6.715e−06
pull
Entries 101
Mean 162.4
Std Dev 0

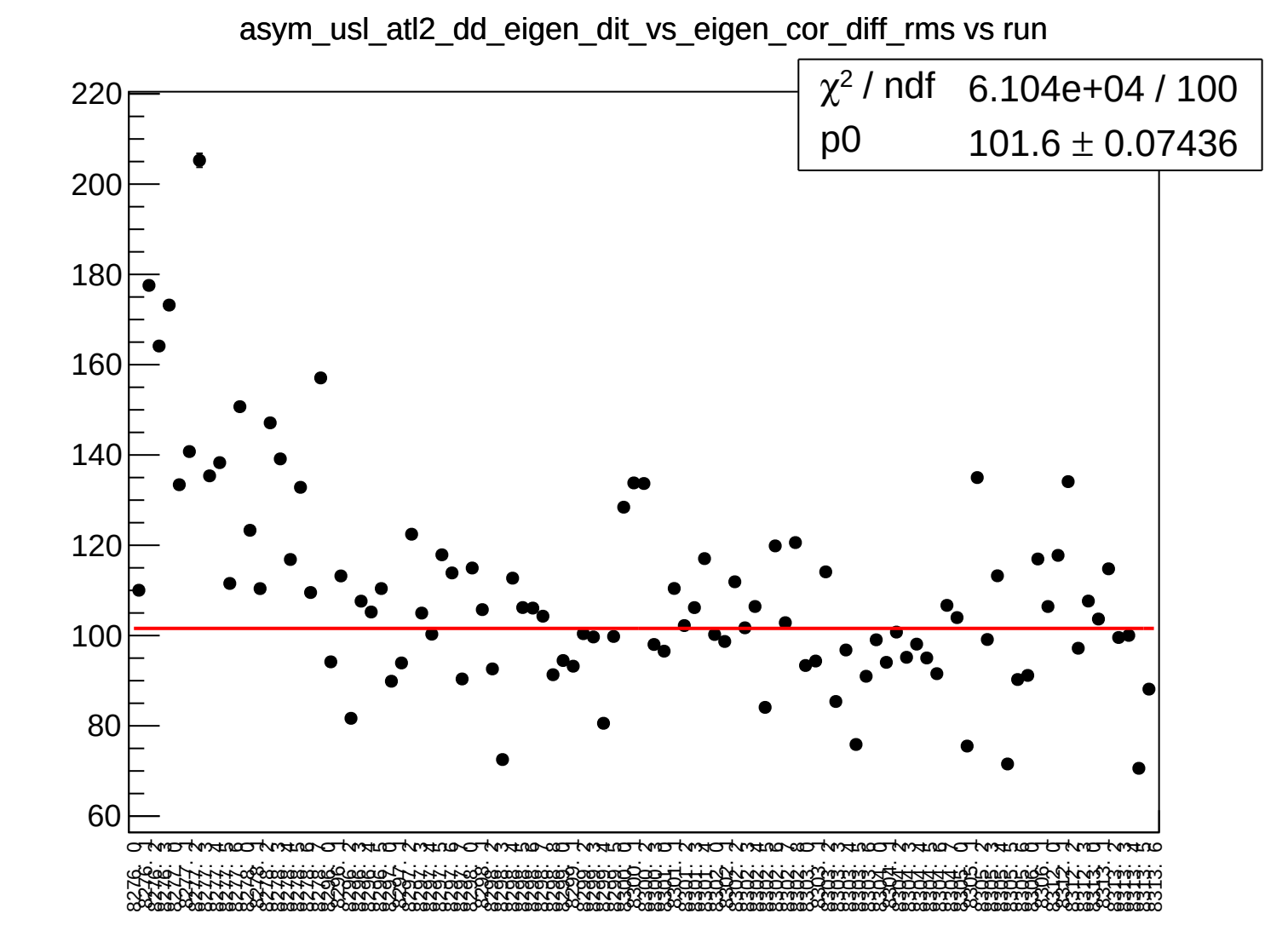

pull1D
Entries 101
Mean 0.05669
Std Dev 1.072

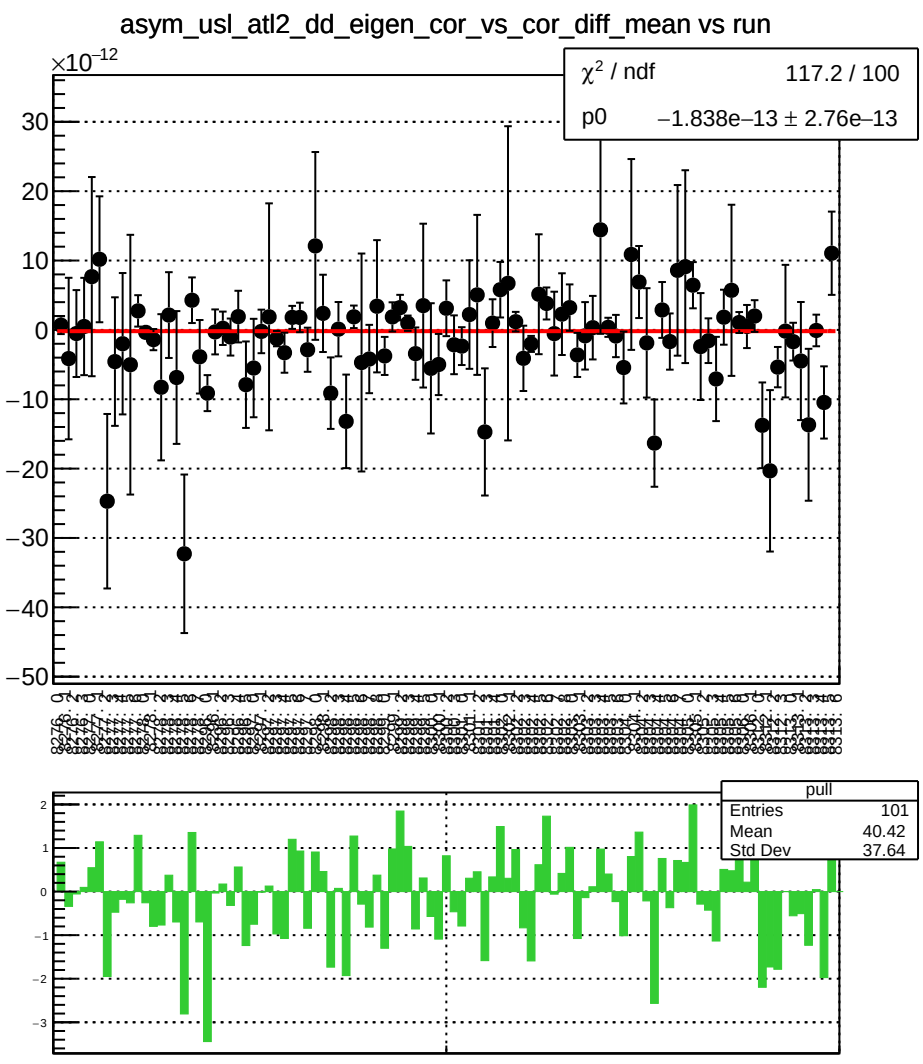

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.763e+05 / 100
p0 0.005311 ± 4.748e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002

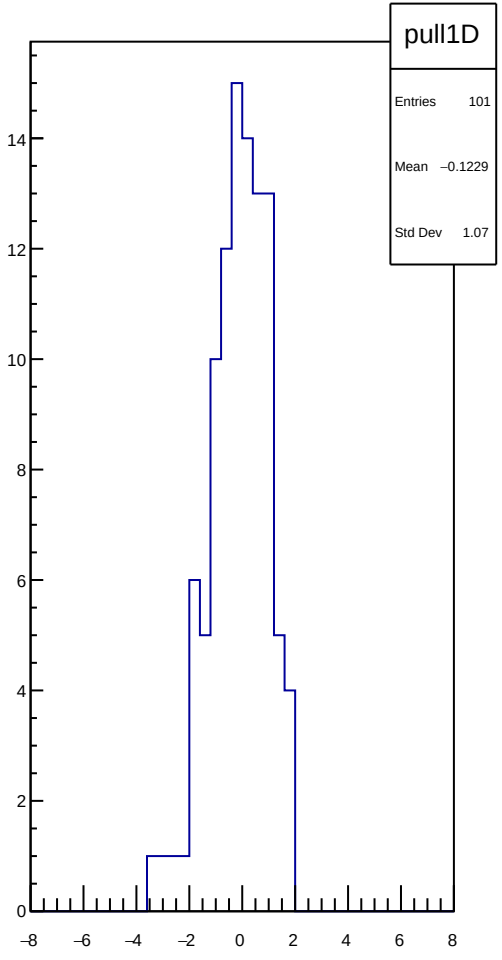

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 109.3 / 100
p0 0.2673 ± 0.1052
pull
Entries 101
Mean −73.92
Std Dev 0
pull1D
Entries 101
Mean −0.02434
Std Dev 1.04

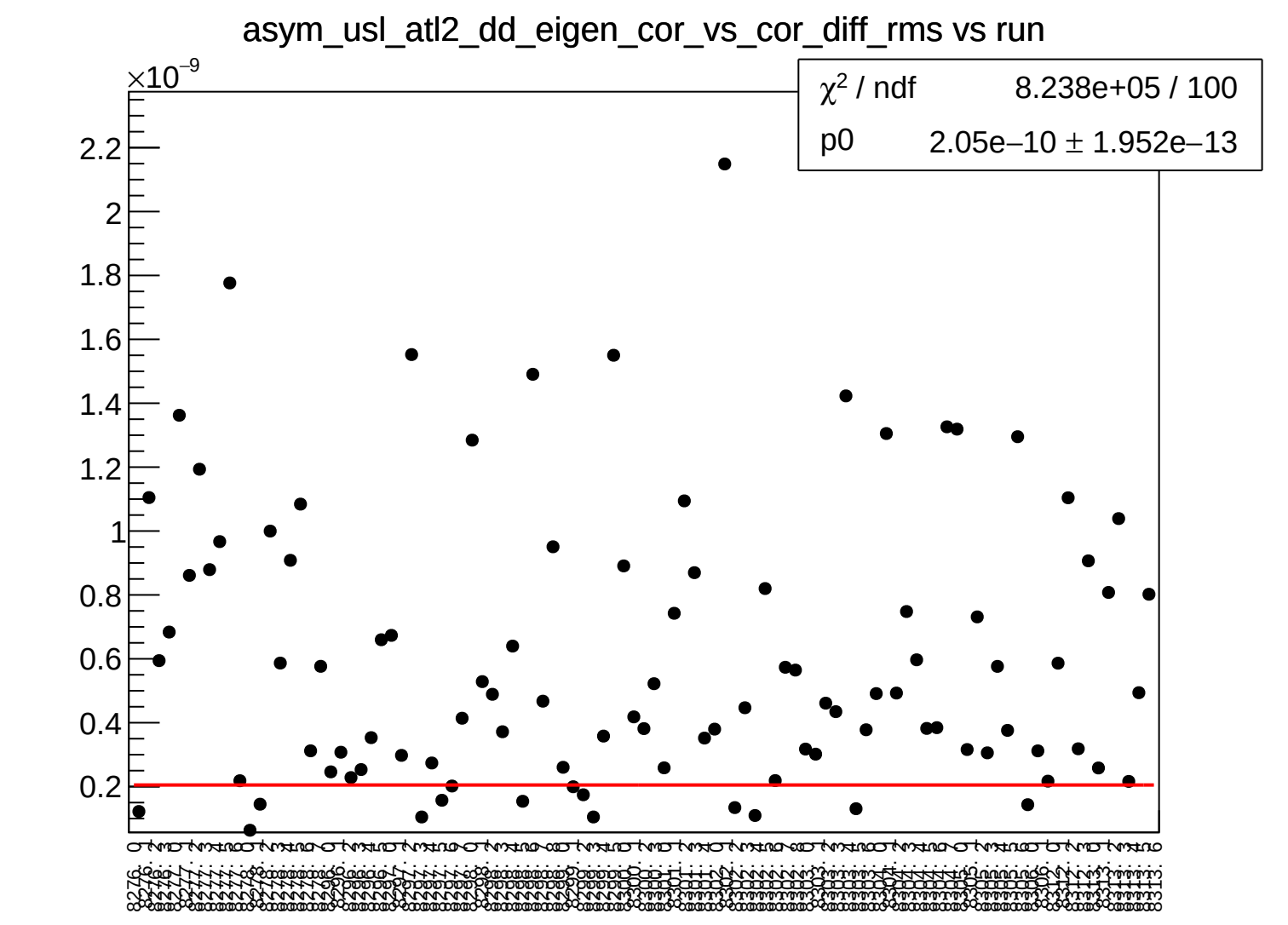

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.104e+04 / 100
p0 101.6 ± 0.07436
220
200
180
160
140
120
100
80
60

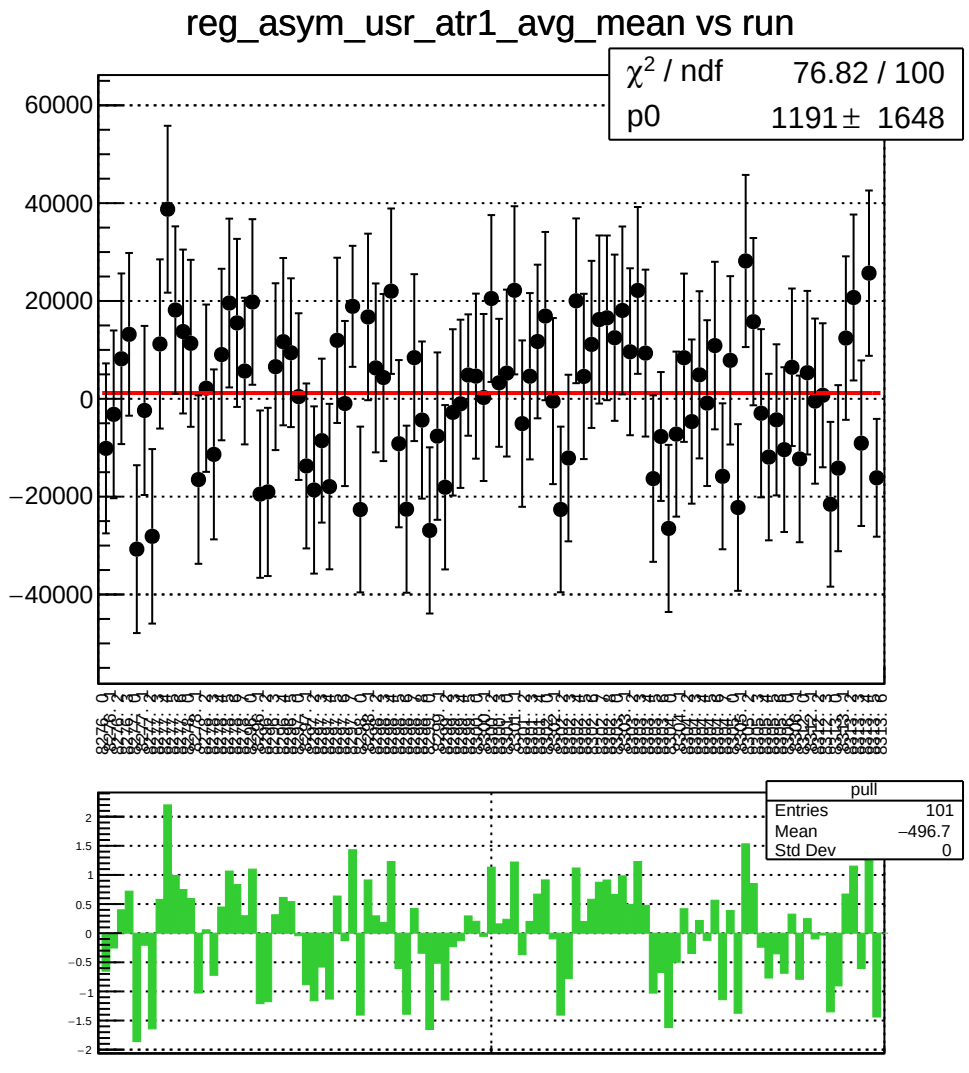

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.3 / 100
p0 0.2673 ± 0.1052
pull
Entries 101
Mean −73.92
Std Dev 0
pull1D
Entries 101
Mean −0.02434
Std Dev 1.04

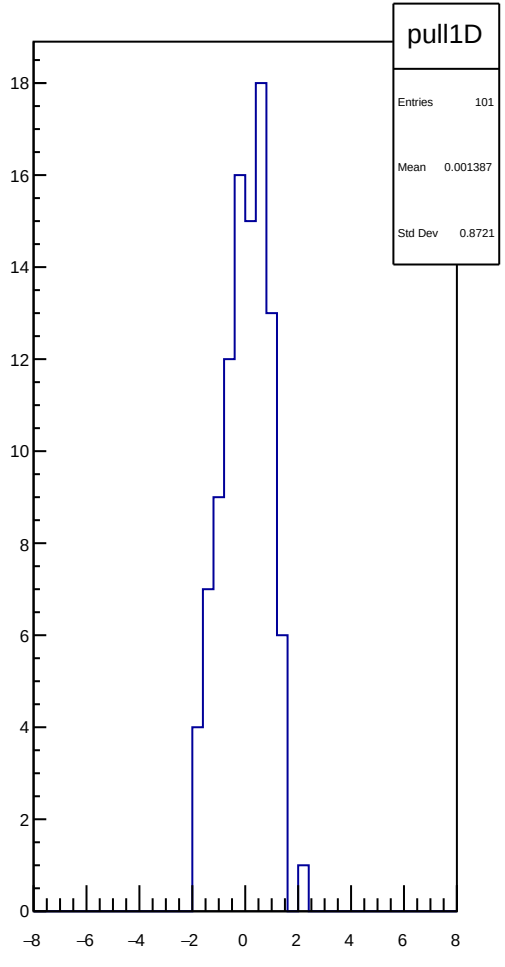

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.104e+04 / 100
p0 101.6 ± 0.07436
220
200
180
160
140
120
100
80
60

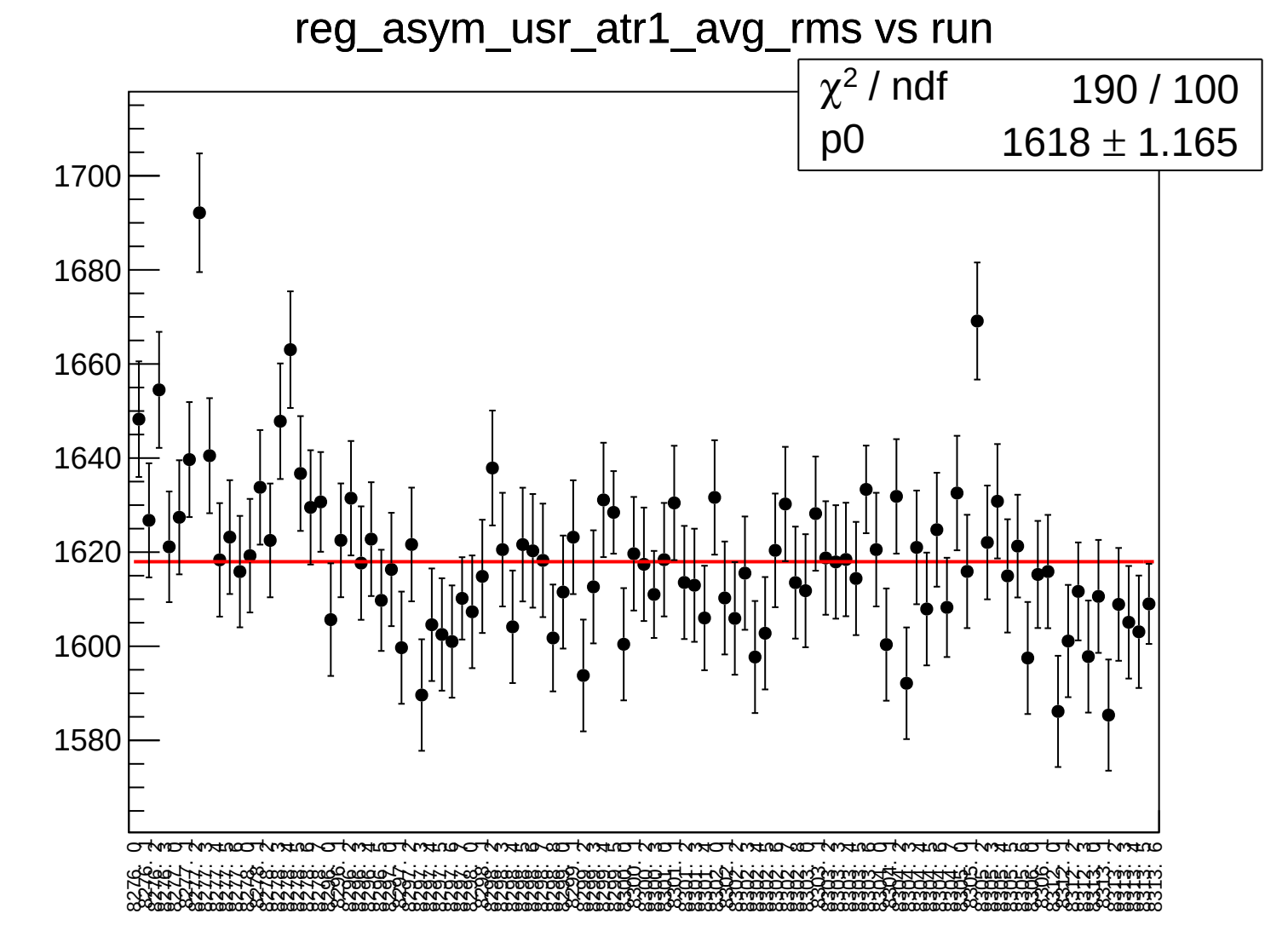

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 117.2 / 100
p0 −1.838e−13 ± 2.76e−13
pull
Entries 101
Mean 40.42
Std Dev 37.64

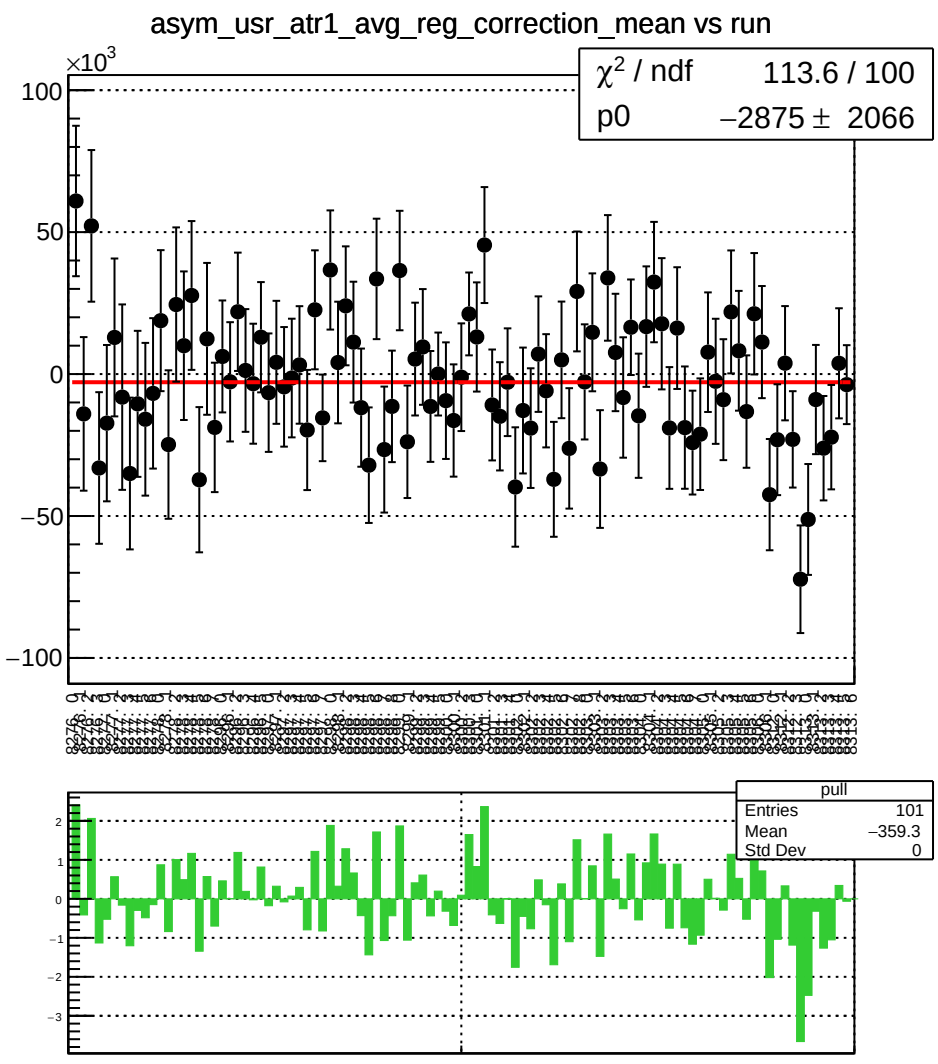

pull1D
Entries 101
Mean −0.1229
Std Dev 1.07

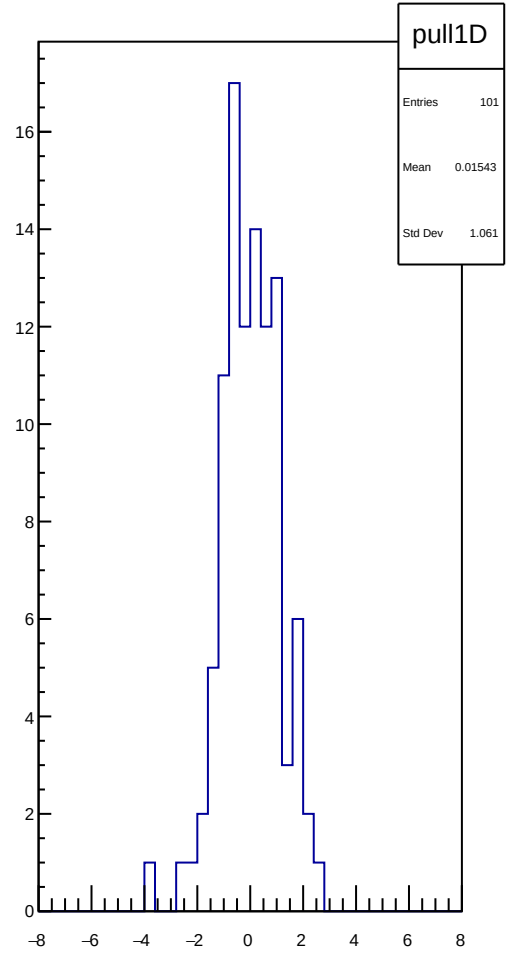

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.238e+05 / 100
p0 2.05e−10 ± 1.952e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

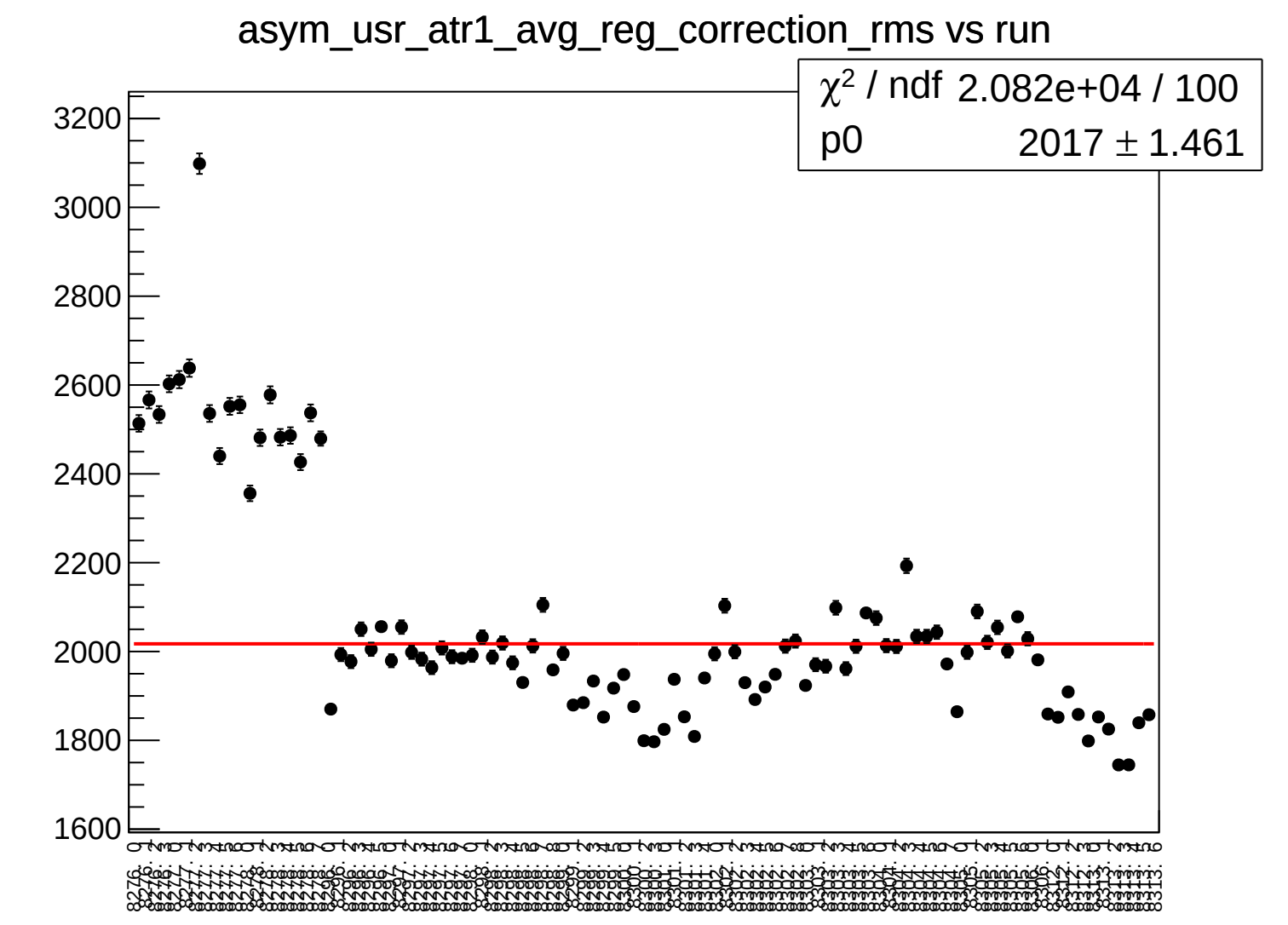

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 76.82 / 100
p0 1191 ± 1648
60000
40000
20000
0
−20000
−40000
pull
Entries 101
Mean −496.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

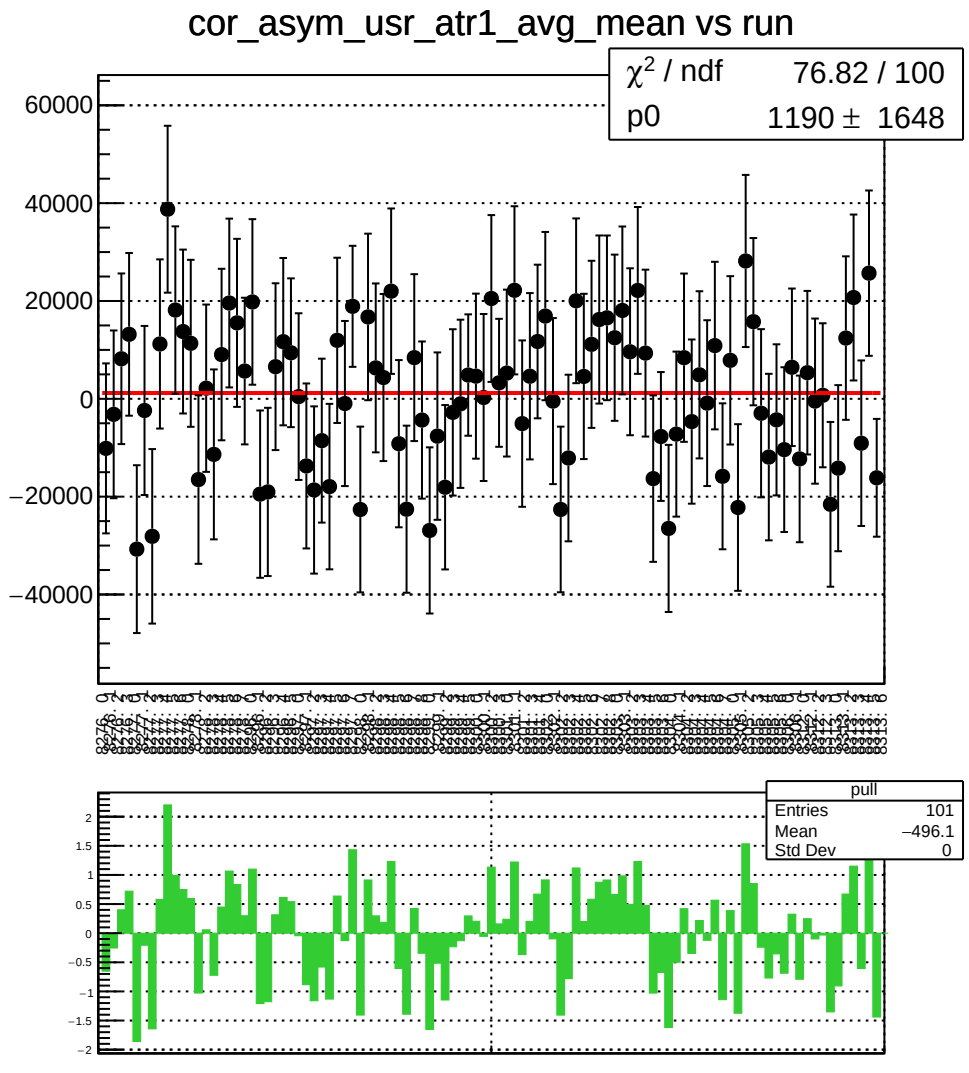

pull1D
Entries 101
Mean 0.001387
Std Dev 0.8721
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

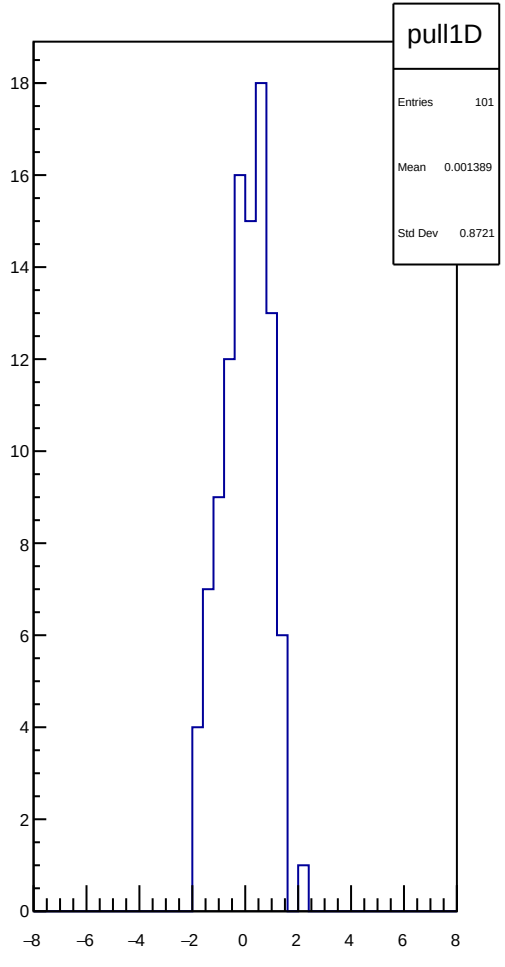

reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 190 / 100
p0 1618 ± 1.165
1700
1680
1660
1640
1620
1600
1580

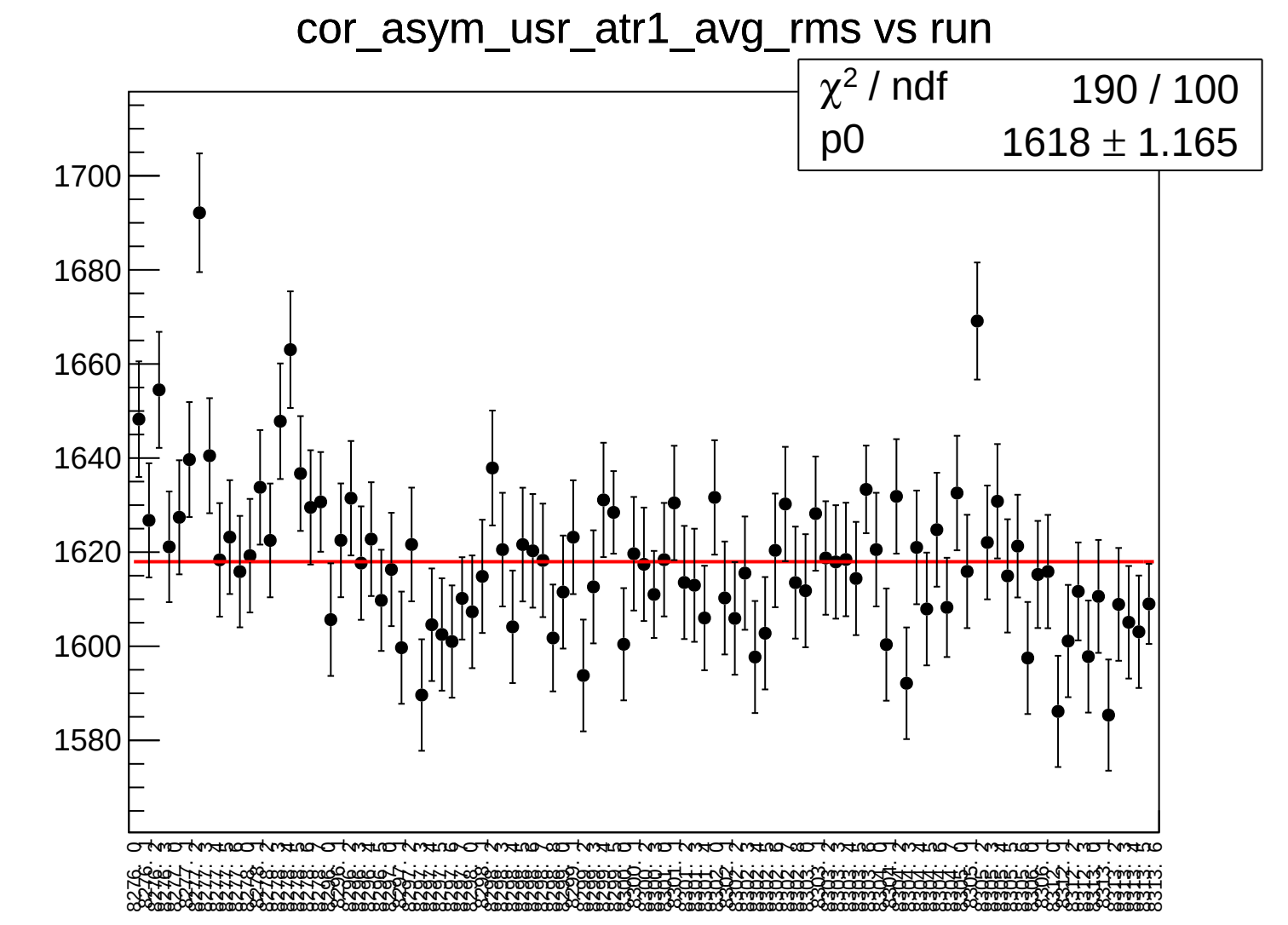

asym_usr_atr1_avg_reg_correction_mean vs run
×10^3
χ² / ndf 113.6 / 100
p0 −2875 ± 2066
100
50
0
−50
−100
pull
Entries 101
Mean −359.3
Std Dev 0
2
1
0
−1
−2
−3

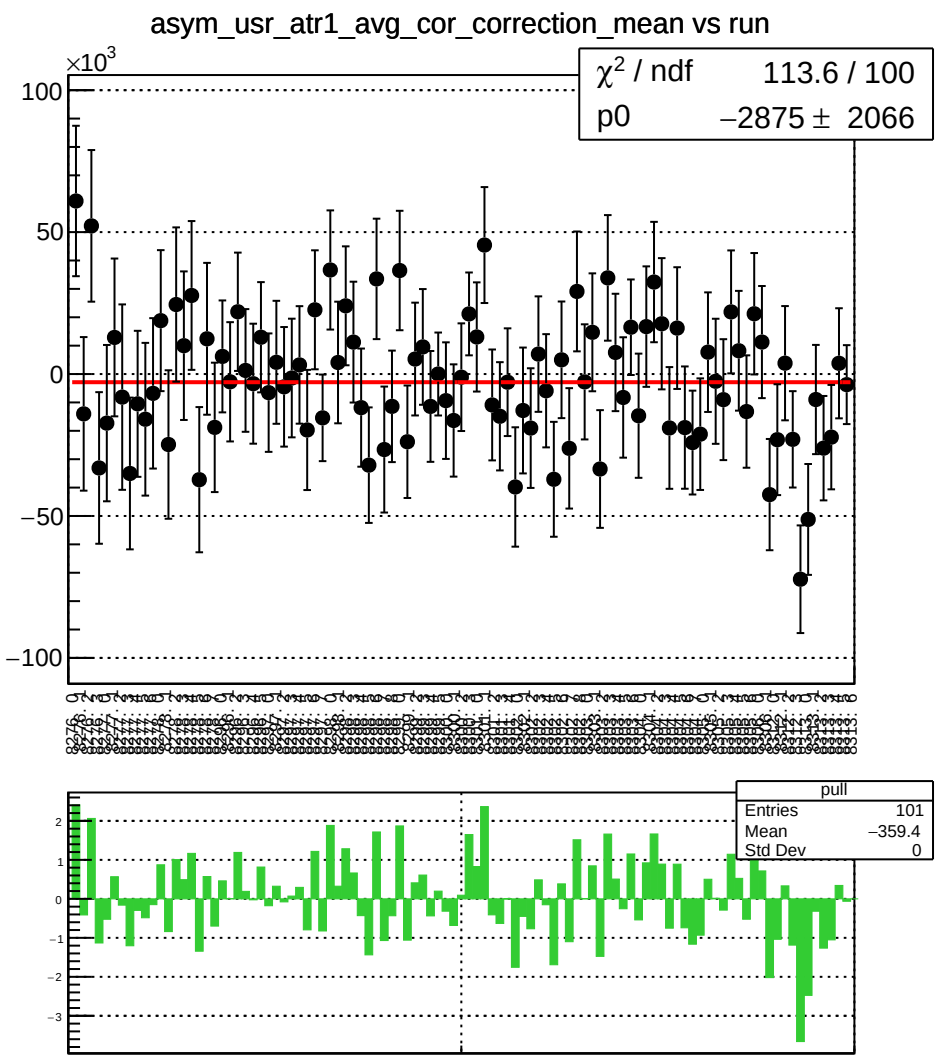

pull1D
Entries 101
Mean 0.01543
Std Dev 1.061
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

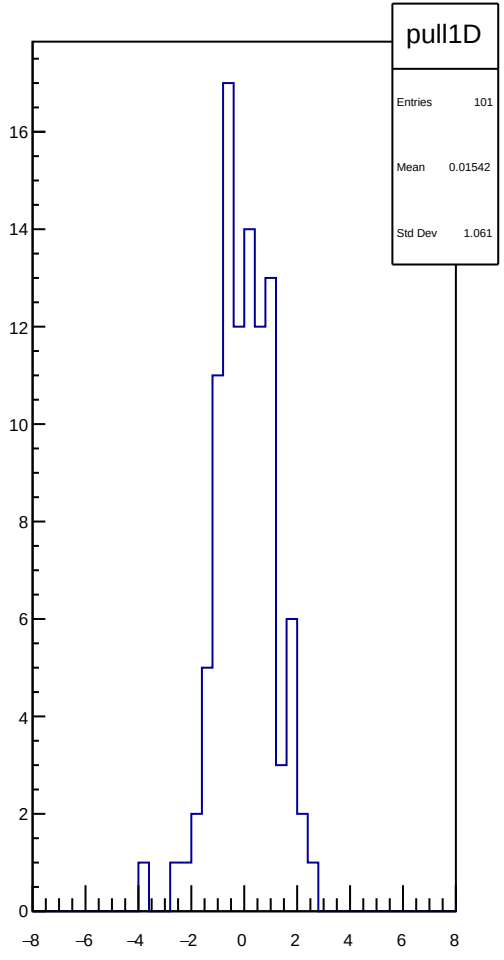

asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 2.082e+04 / 100
p0 2017 ± 1.461
3200
3000
2800
2600
2400
2200
2000
1800
1600

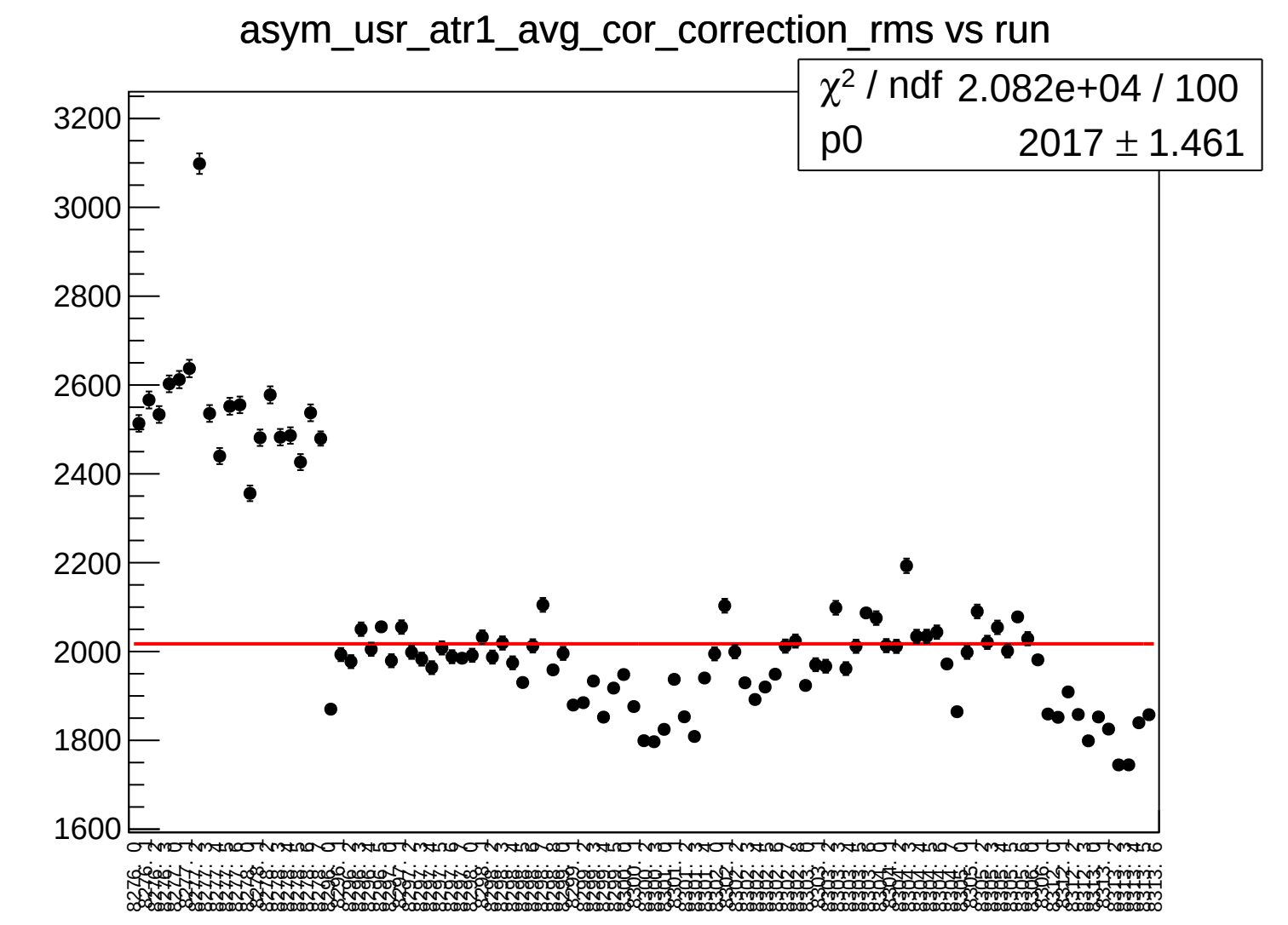

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 76.82 / 100
p0 1190 ± 1648
60000
40000
20000
0
−20000
−40000
pull
Entries 101
Mean −496.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

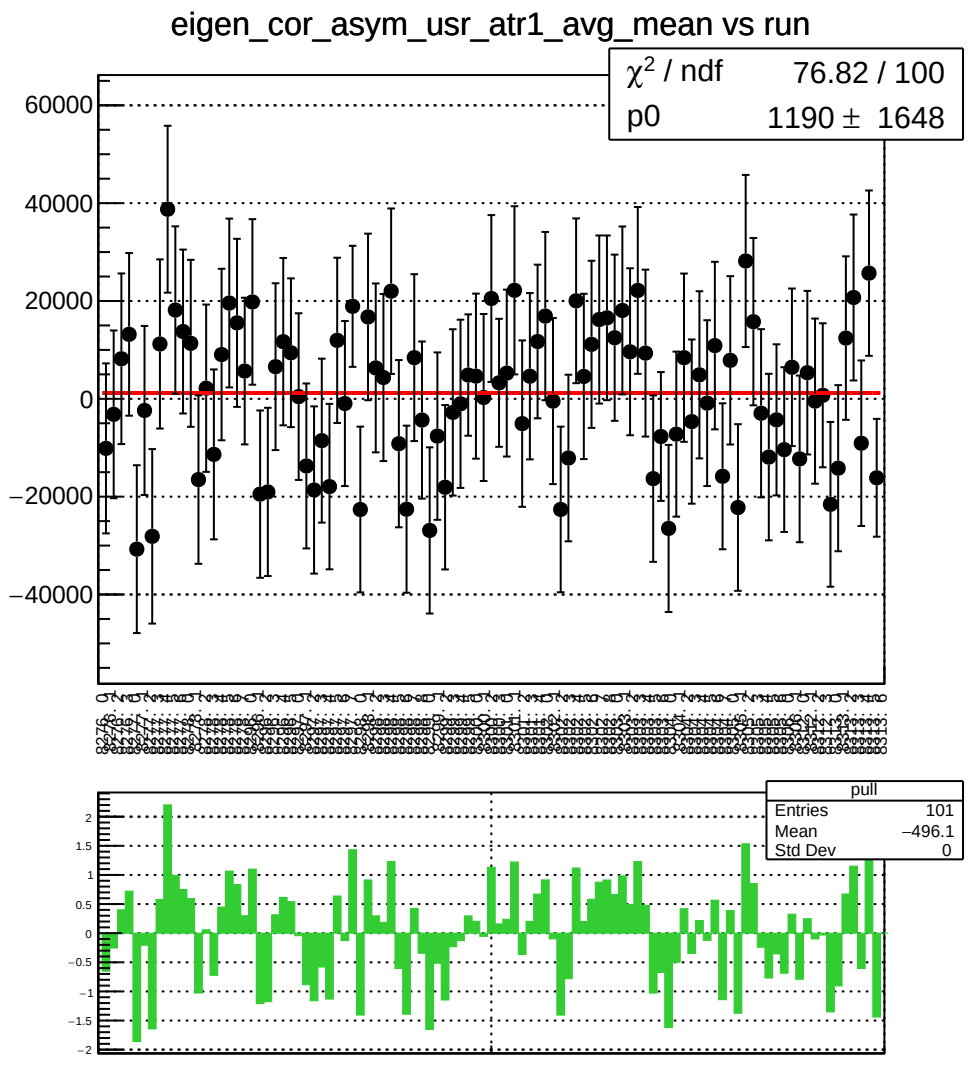

pull1D
Entries 101
Mean 0.001389
Std Dev 0.8721
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

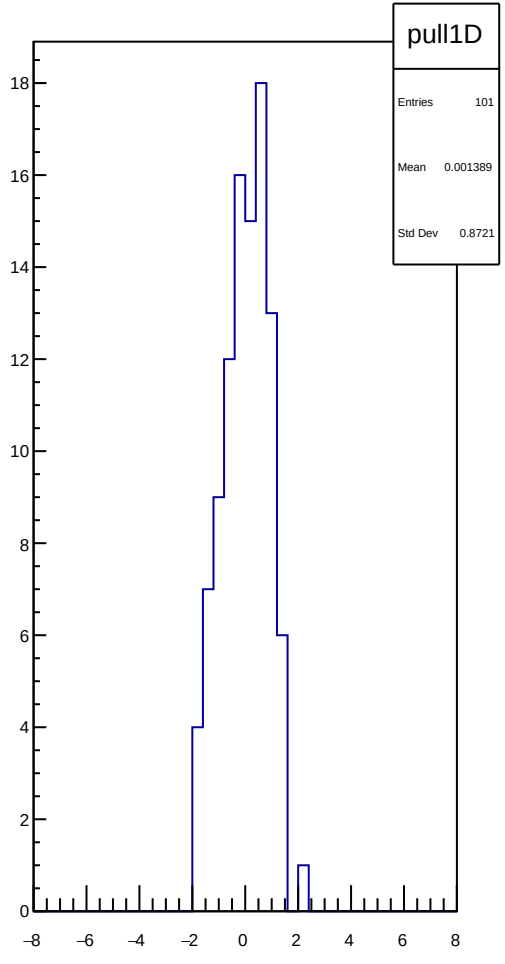

cor_asym_usr_atr1_avg_rms vs run
χ^2 / ndf 190 / 100
p0 1618 ± 1.165
1700
1680
1660
1640
1620
1600
1580

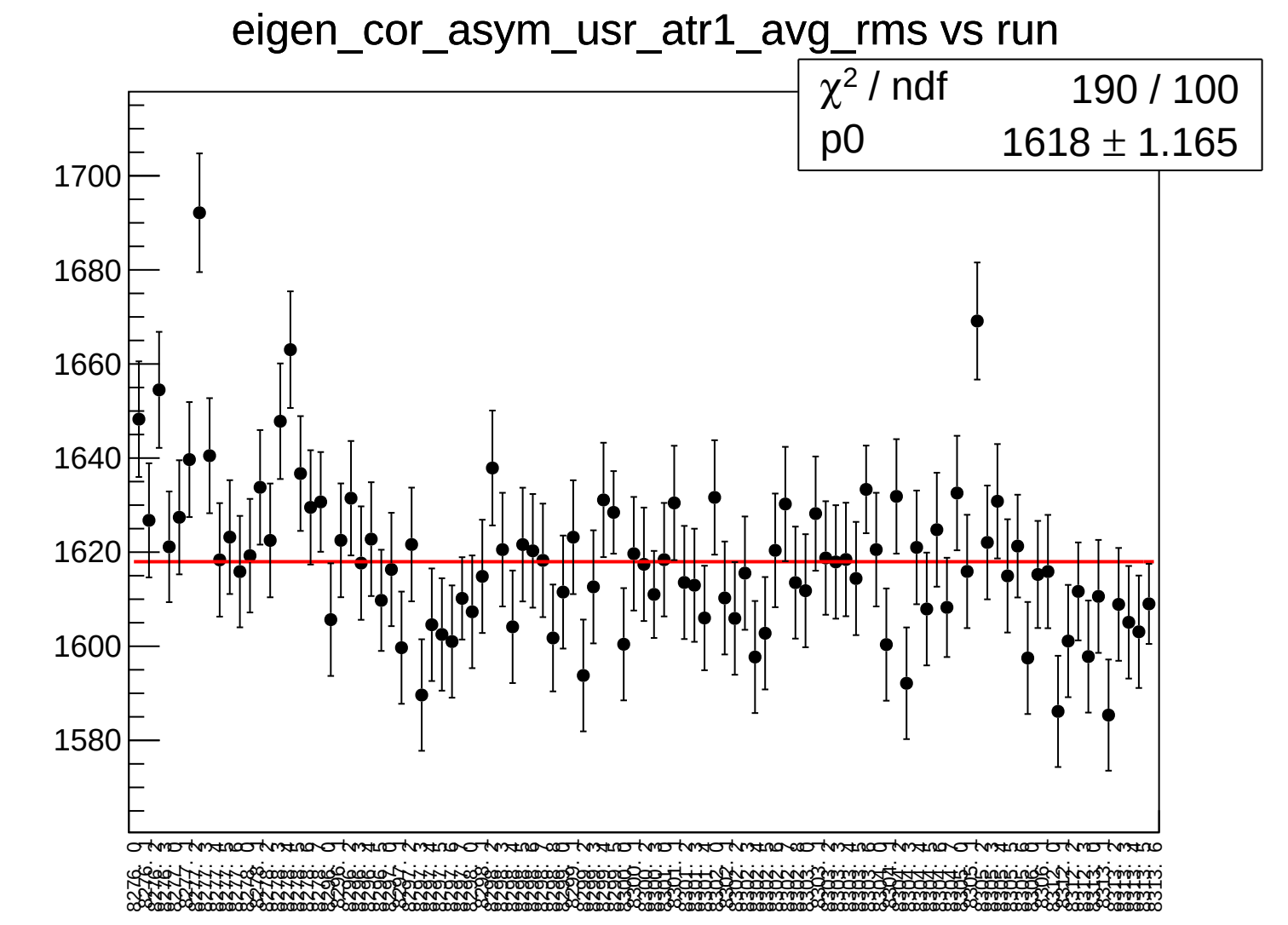

asym_usr_atr1_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 113.6 / 100
p0 −2875 ± 2066
100
50
0
−50
−100
pull
Entries 101
Mean −359.4
Std Dev 0
2
1
0
−1
−2
−3

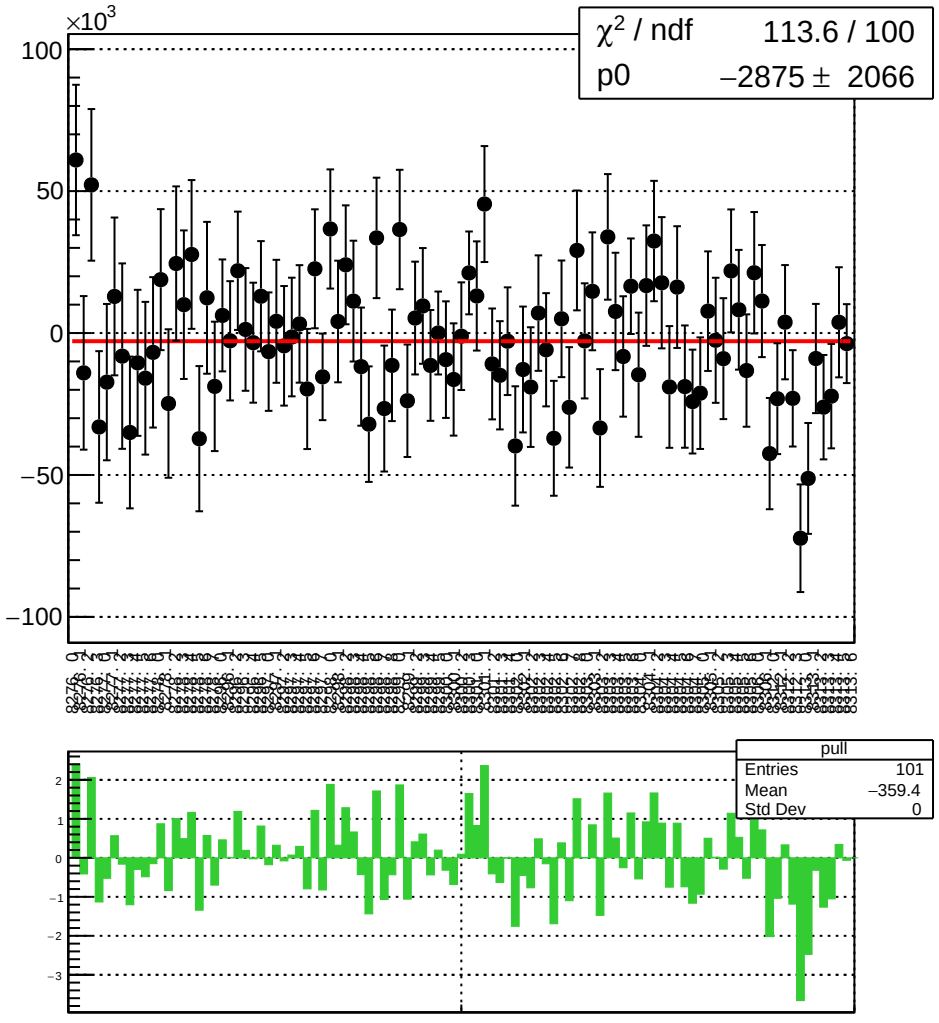

pull1D
Entries 101
Mean 0.01542
Std Dev 1.061
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

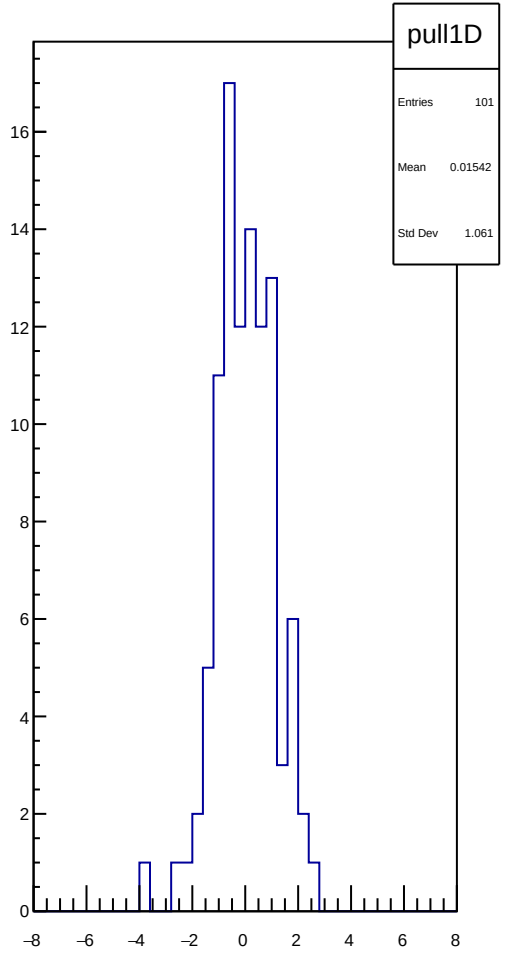

asym_usr_atr1_avg_cor_correction_rms vs run
χ² / ndf 2.082e+04 / 100
p0 2017 ± 1.461
3200
3000
2800
2600
2400
2200
2000
1800
1600

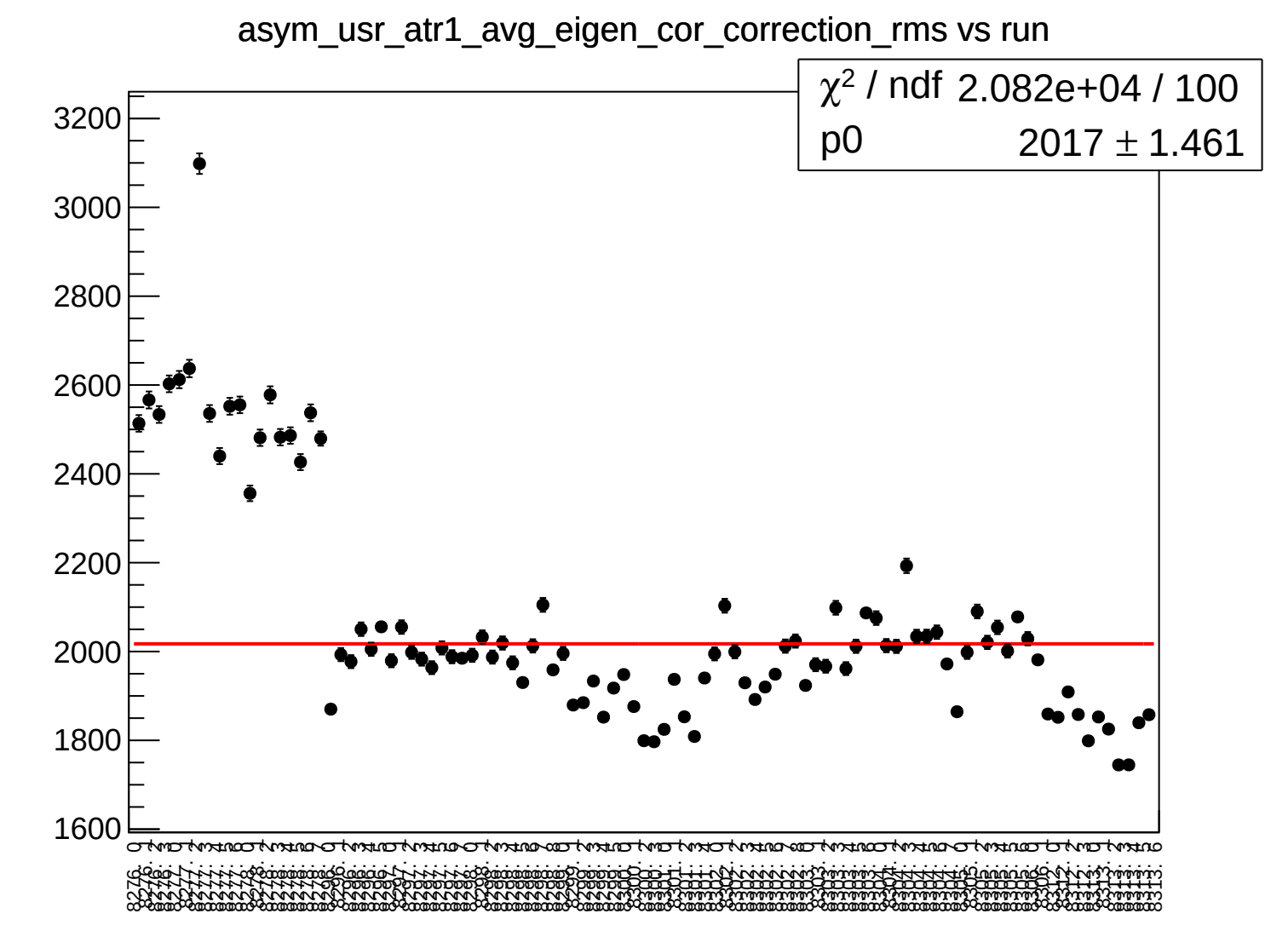

eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 76.82 / 100
p0 1190 ± 1648
60000
40000
20000
0
−20000
−40000
pull
Entries 101
Mean −496.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

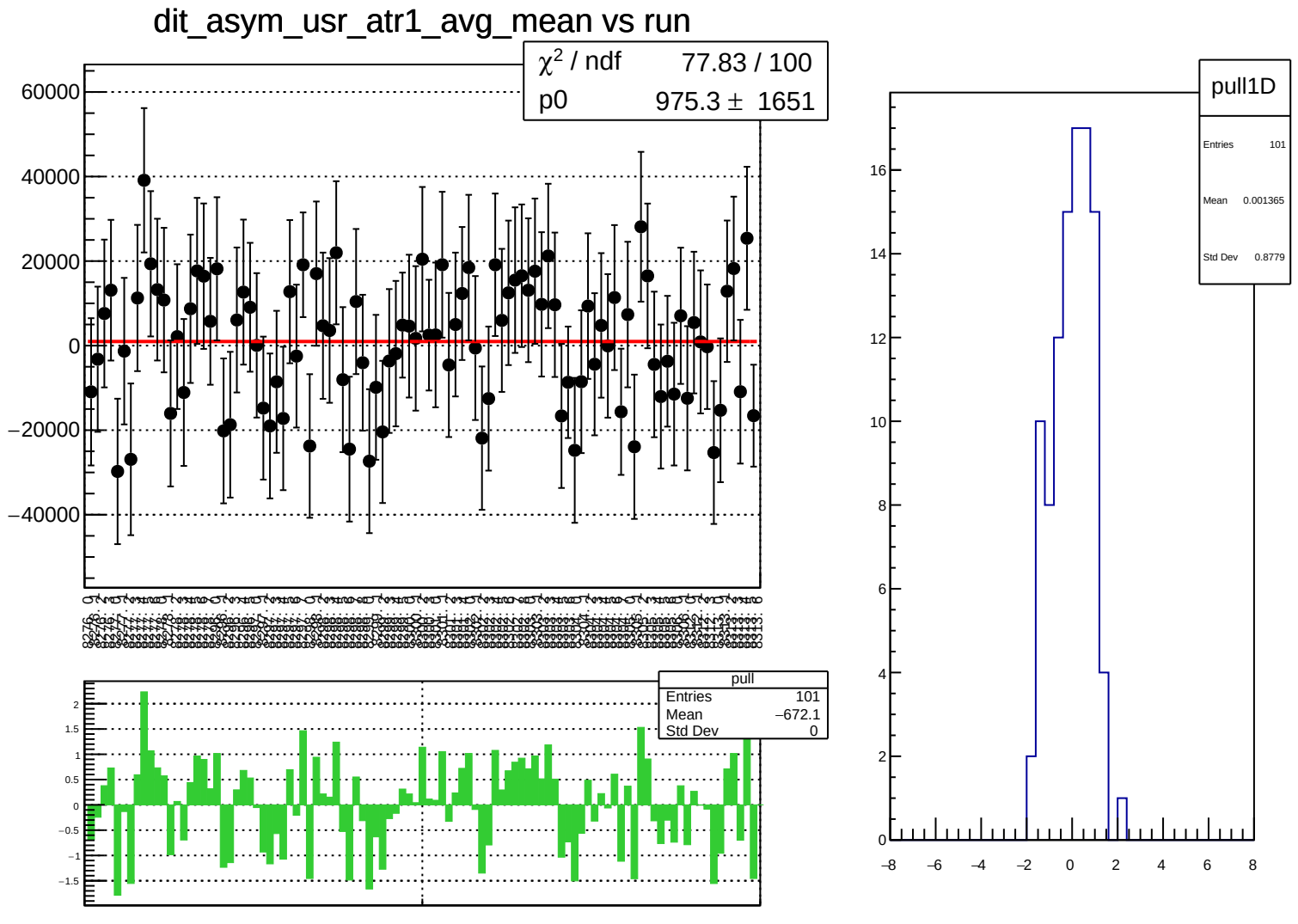

pull1D
Entries 101
Mean 0.001389
Std Dev 0.8721
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

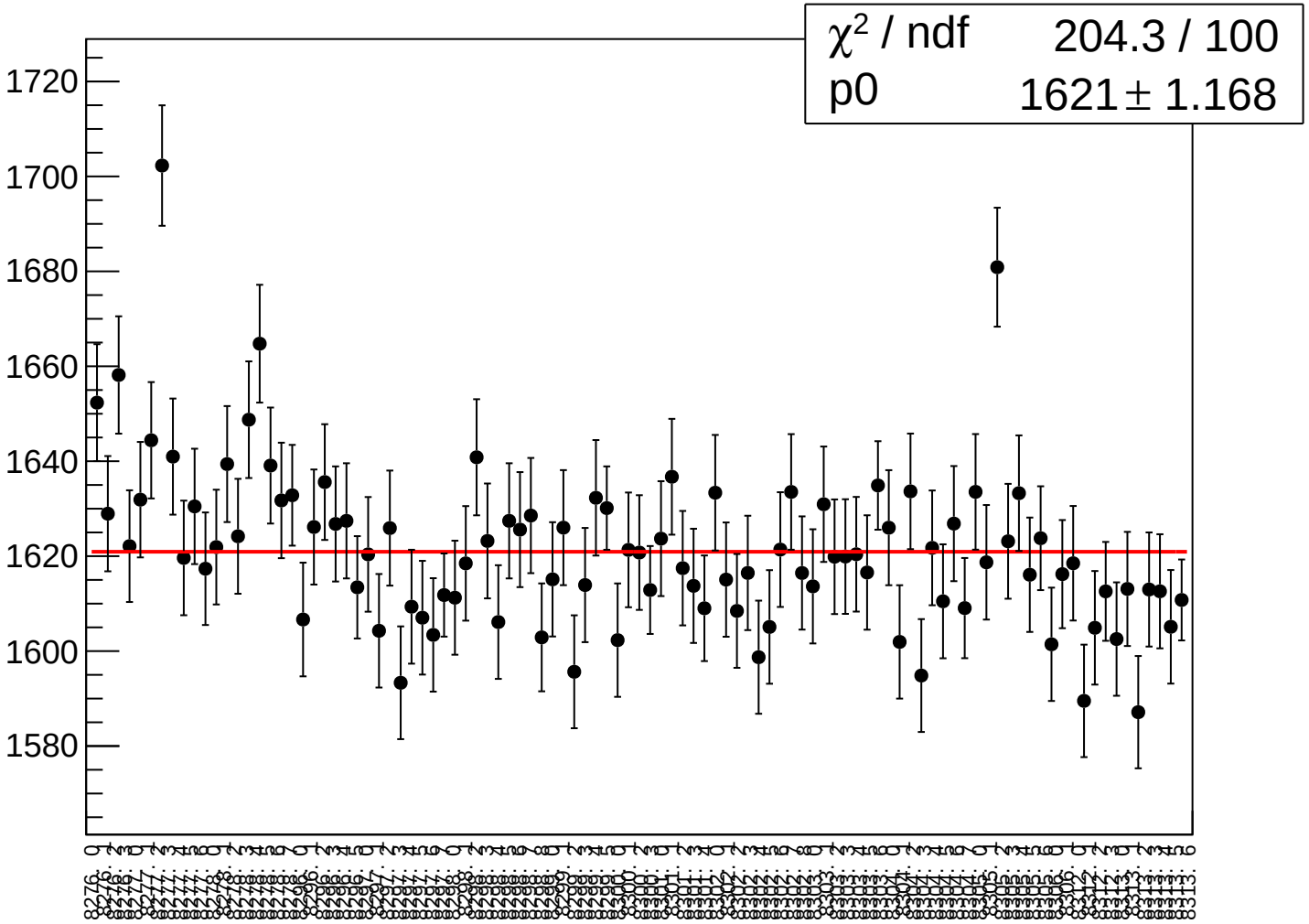

eigen_cor_asym_usr_atr1_avg_rms vs run
χ^2 / ndf 190 / 100
p0 1618 ± 1.165
1700
1680
1660
1640
1620
1600
1580

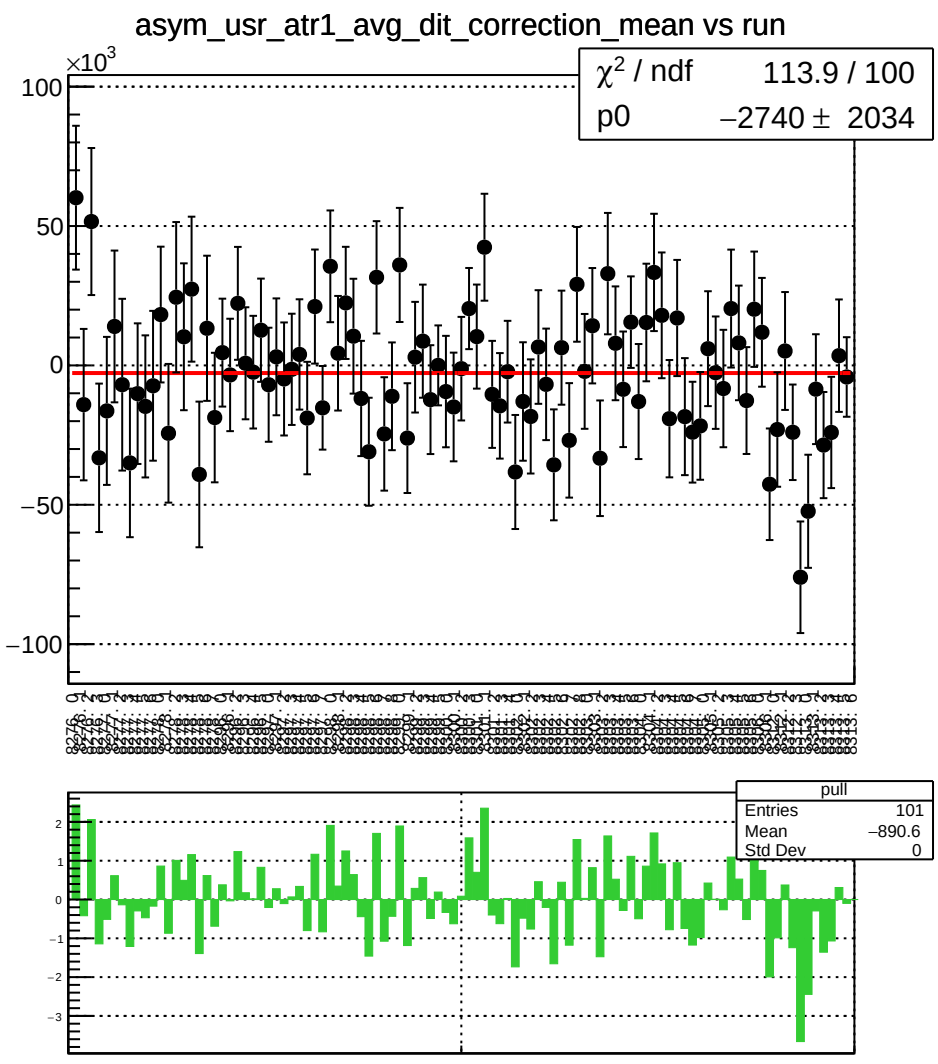

asym_usr_atr1_avg_eigen_cor_correction_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 113.6 / 100
p0 −2875 ± 2066
pull
Entries 101
Mean −359.4
Std Dev 0
2
1
0
−1
−2
−3

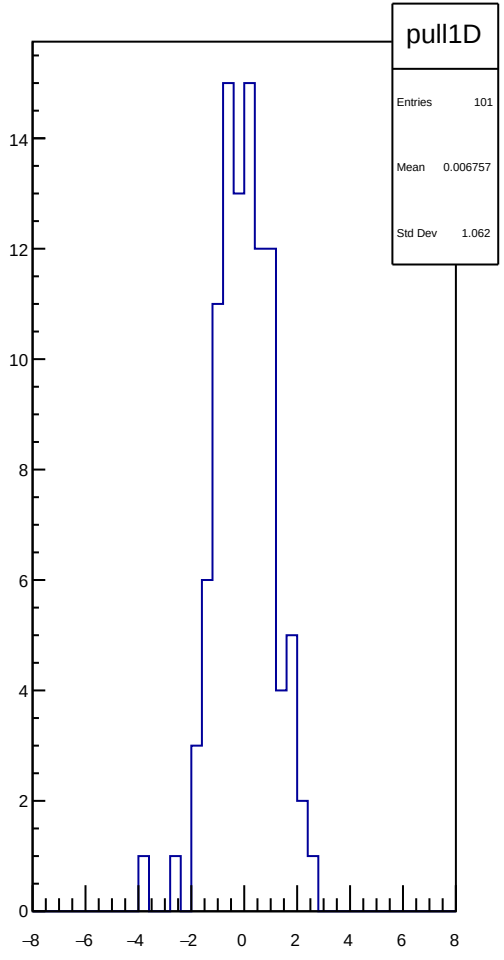

pull1D
Entries 101
Mean 0.01542
Std Dev 1.061
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

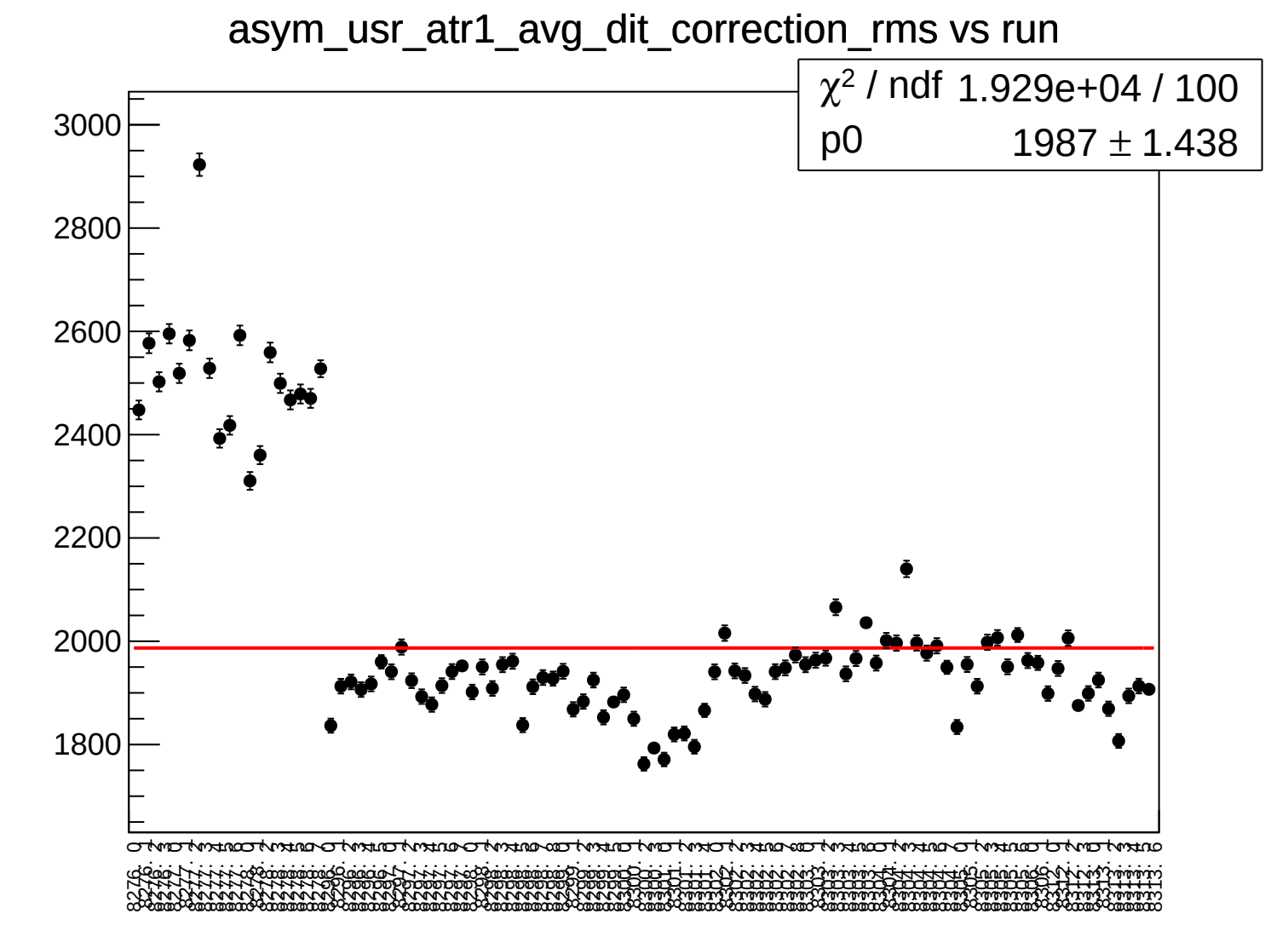

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.082e+04 / 100
p0 2017 ± 1.461
3200
3000
2800
2600
2400
2200
2000
1800
1600

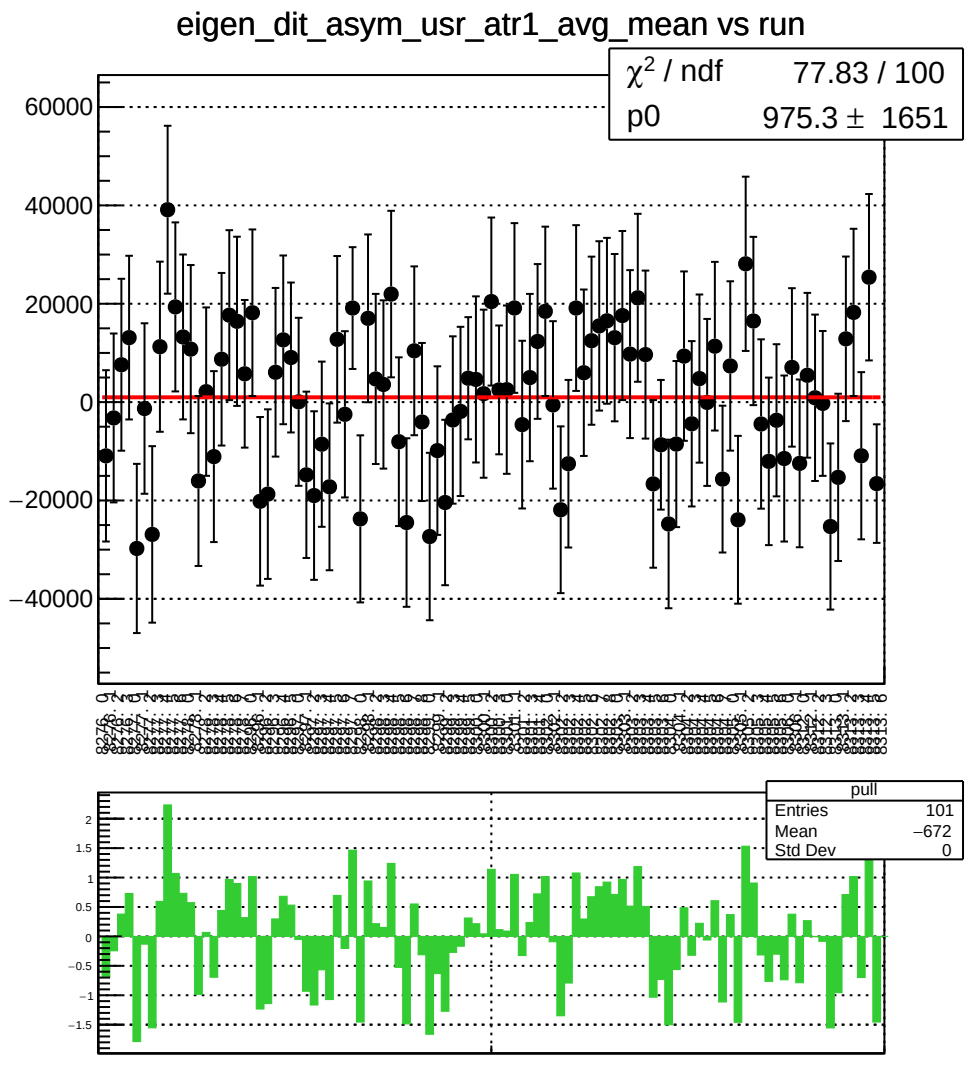

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 77.83 / 100
p0 975.3 ± 1651
60000
40000
20000
0
−20000
−40000
pull
Entries 101
Mean −672.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 101
Mean 0.001365
Std Dev 0.8779
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

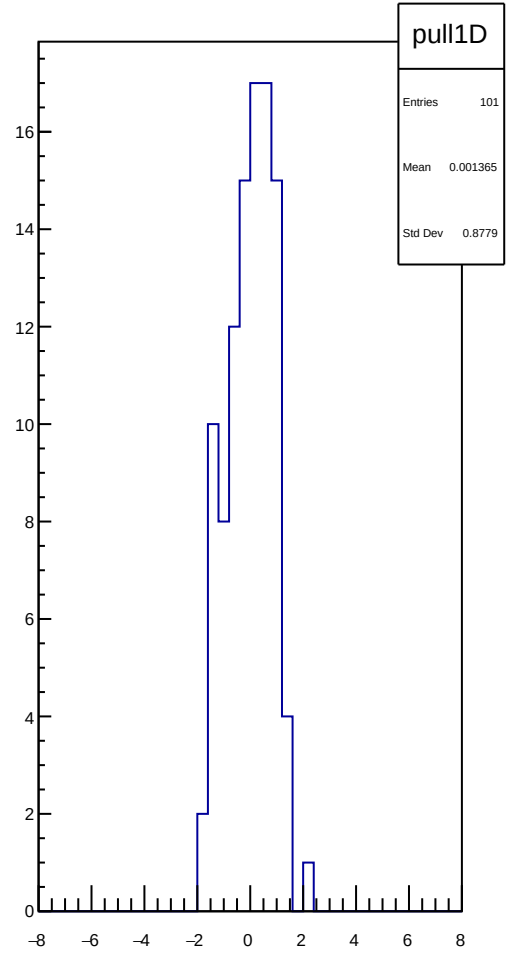

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 204.3 / 100
p0 1621 ± 1.168
1720
1700
1680
1660
1640
1620
1600
1580

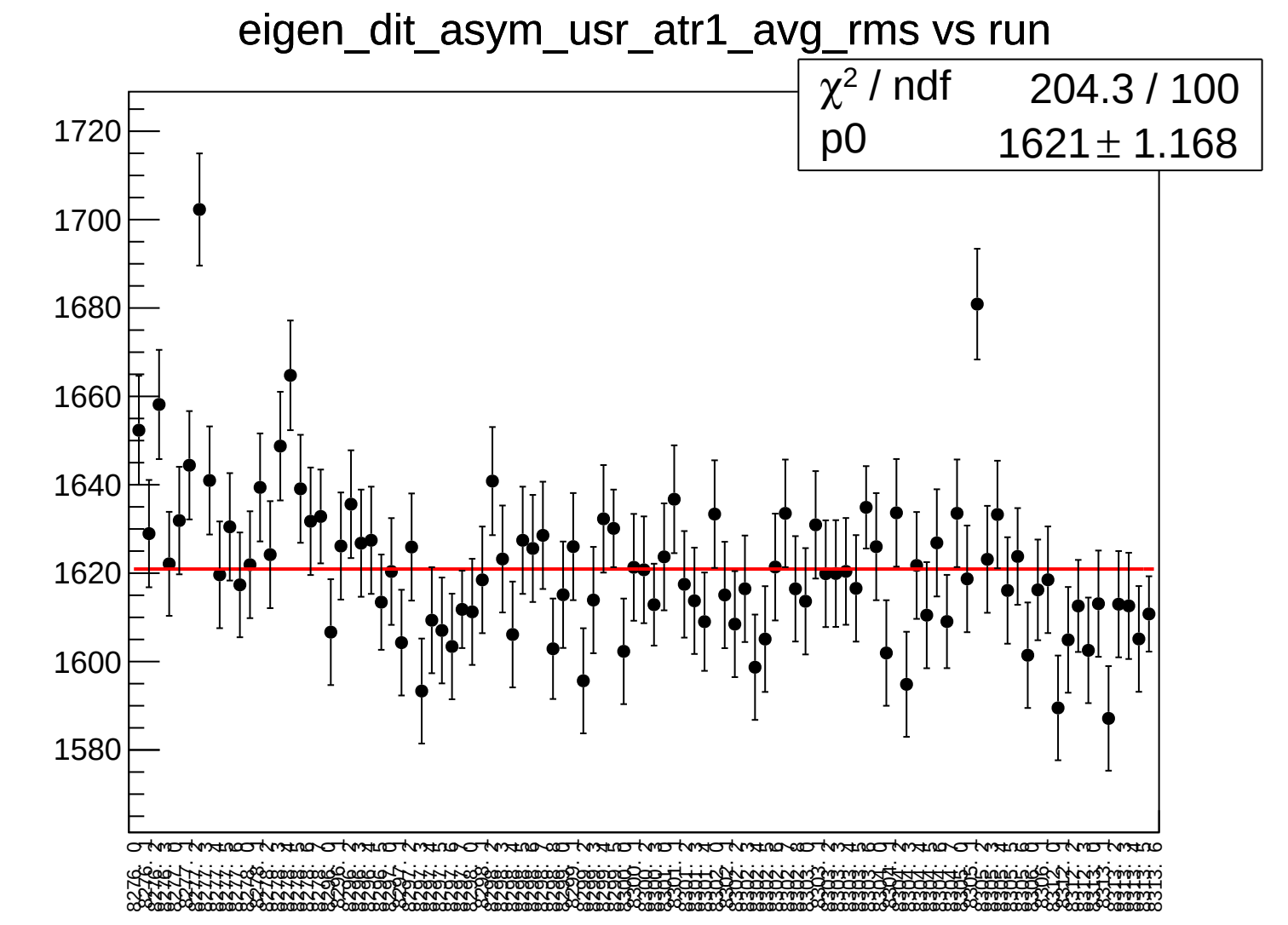

asym_usr_atr1_avg_dit_correction_mean vs run
×10^3
χ² / ndf 113.9 / 100
p0 −2740 ± 2034
100
50
0
−50
−100
pull
Entries 101
Mean −890.6
Std Dev 0
2
1
0
−1
−2
−3

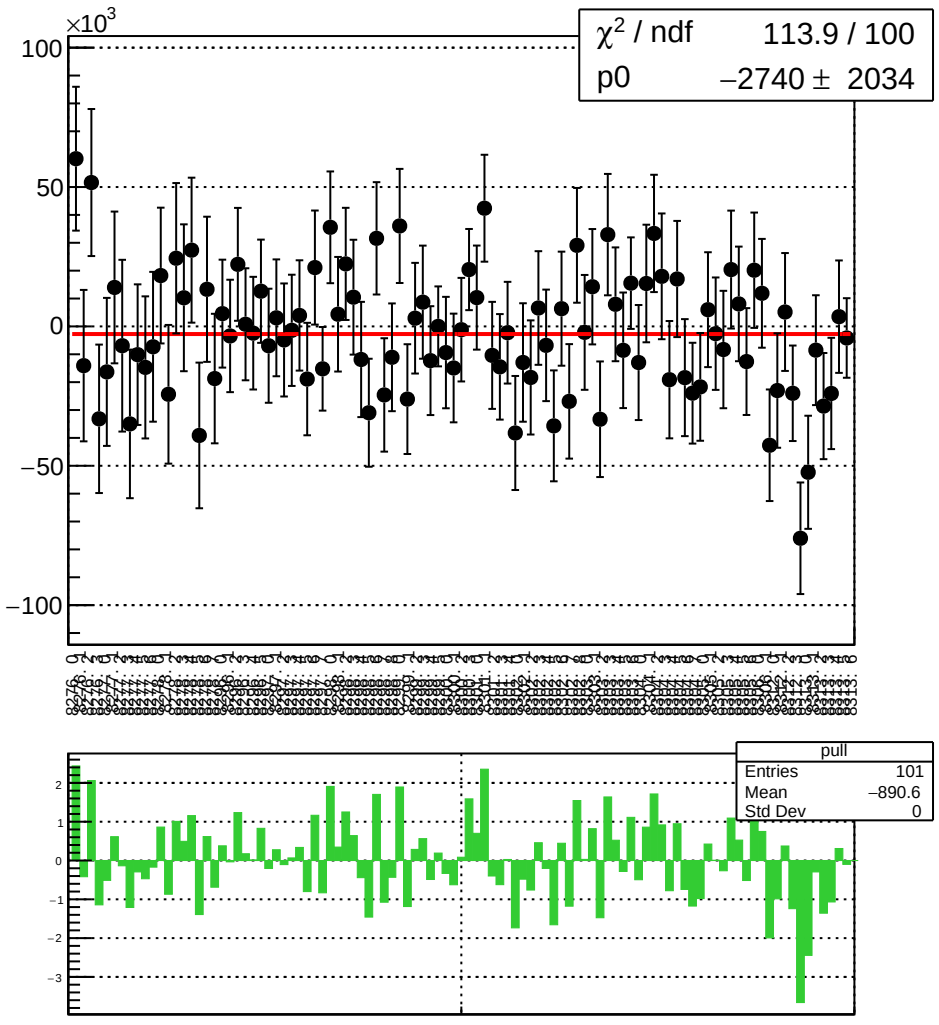

pull1D
Entries 101
Mean 0.006757
Std Dev 1.062
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

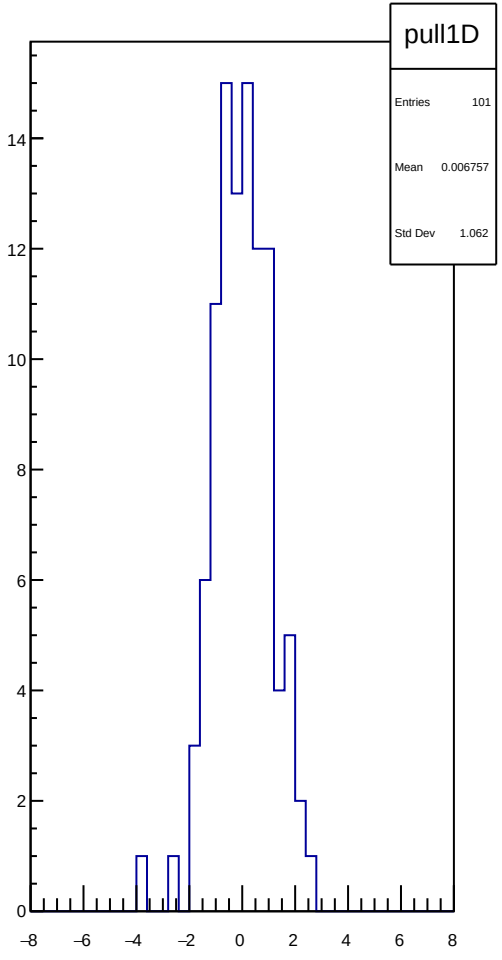

asym_usr_atr1_avg_dit_correction_rms vs run
χ² / ndf 1.929e+04 / 100
p0 1987 ± 1.438
3000
2800
2600
2400
2200
2000
1800

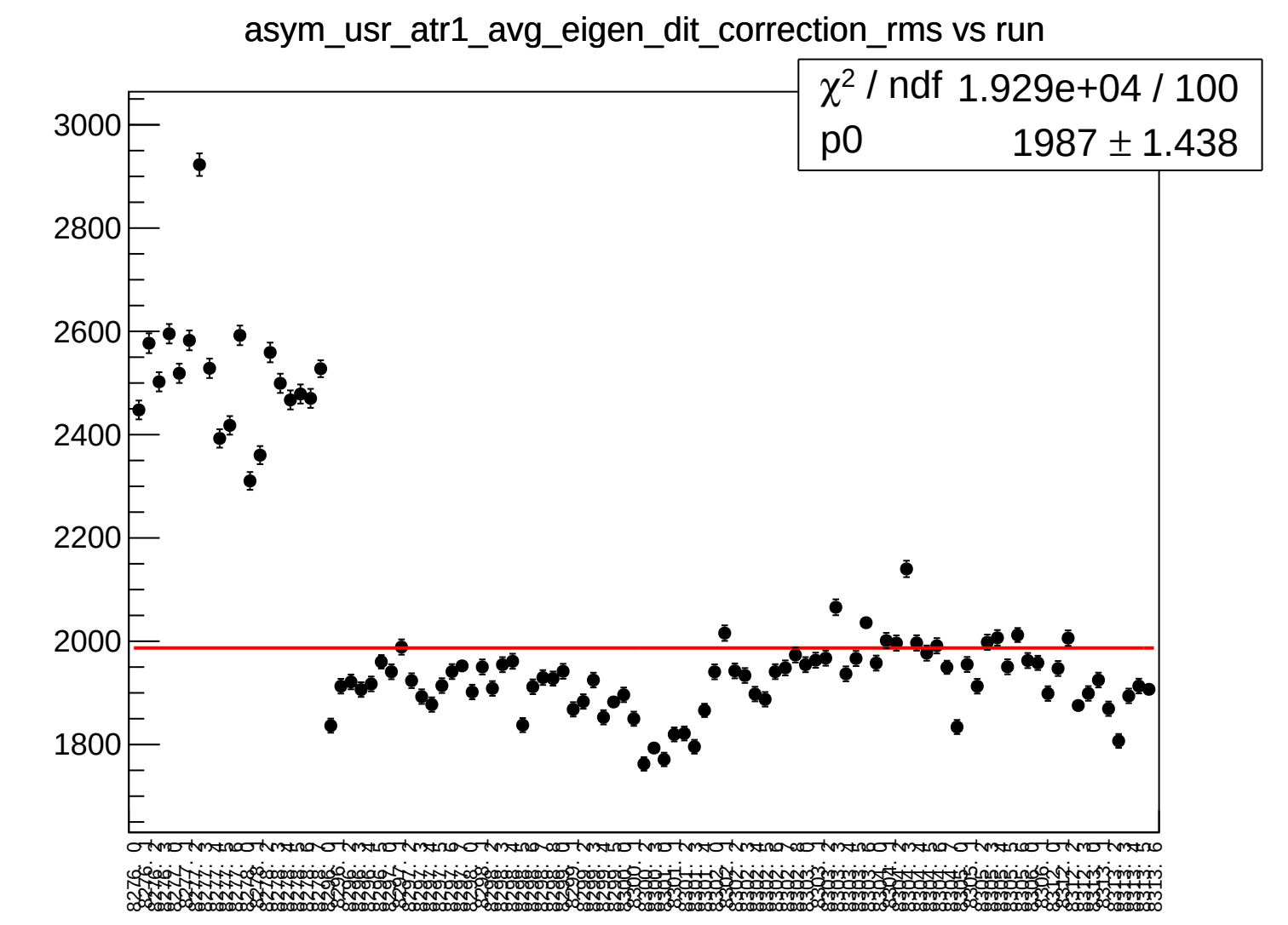

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 77.83 / 100
p0 975.3 ± 1651
60000
40000
20000
0
−20000
−40000
pull
Entries 101
Mean −672
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

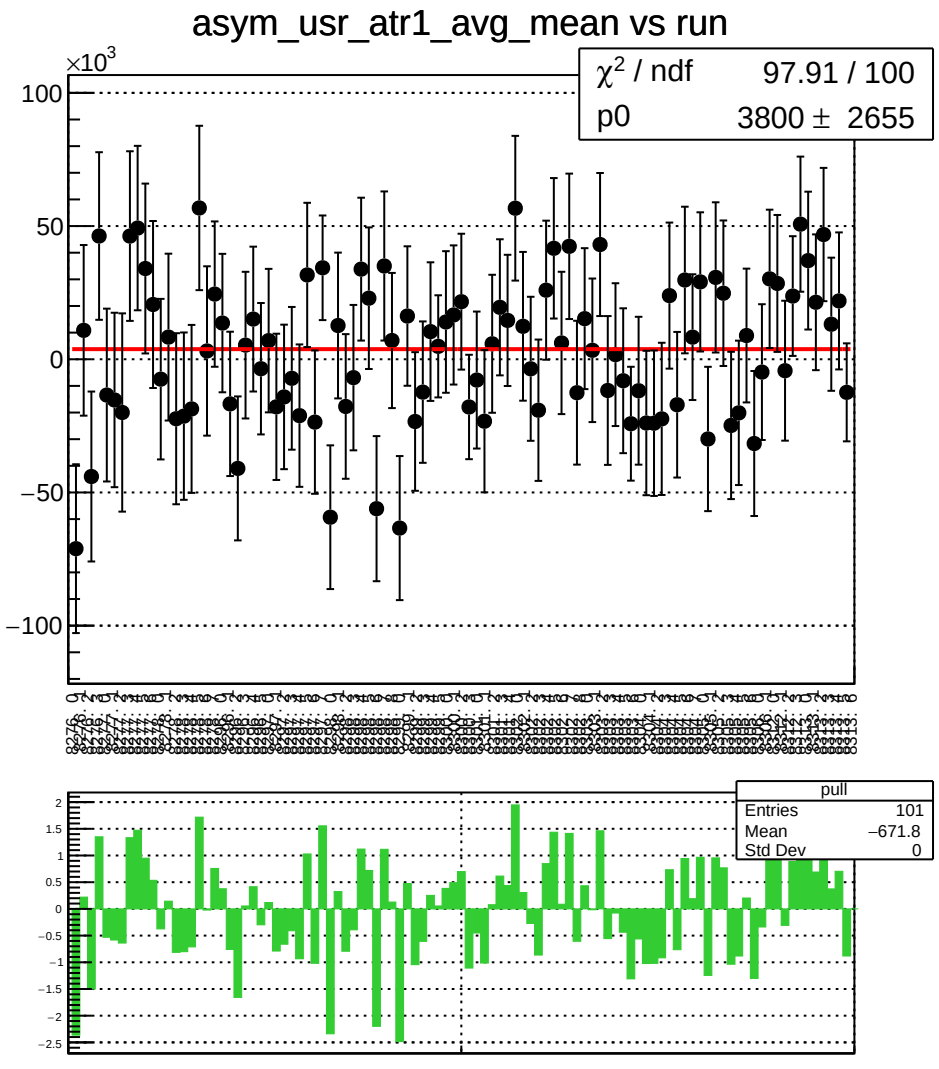

pull1D
Entries 101
Mean 0.001365
Std Dev 0.8779
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

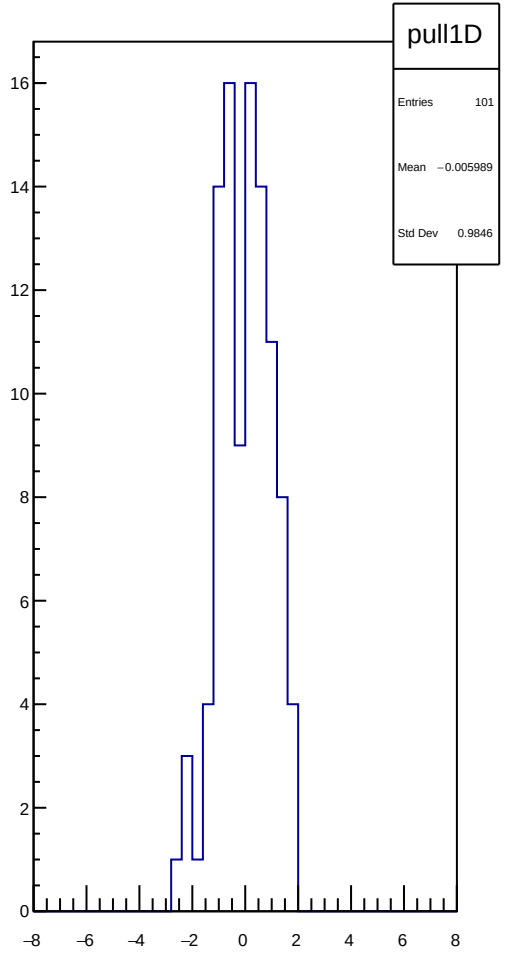

eigen_dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 204.3 / 100
p0 1621 ± 1.168
1720
1700
1680
1660
1640
1620
1600
1580

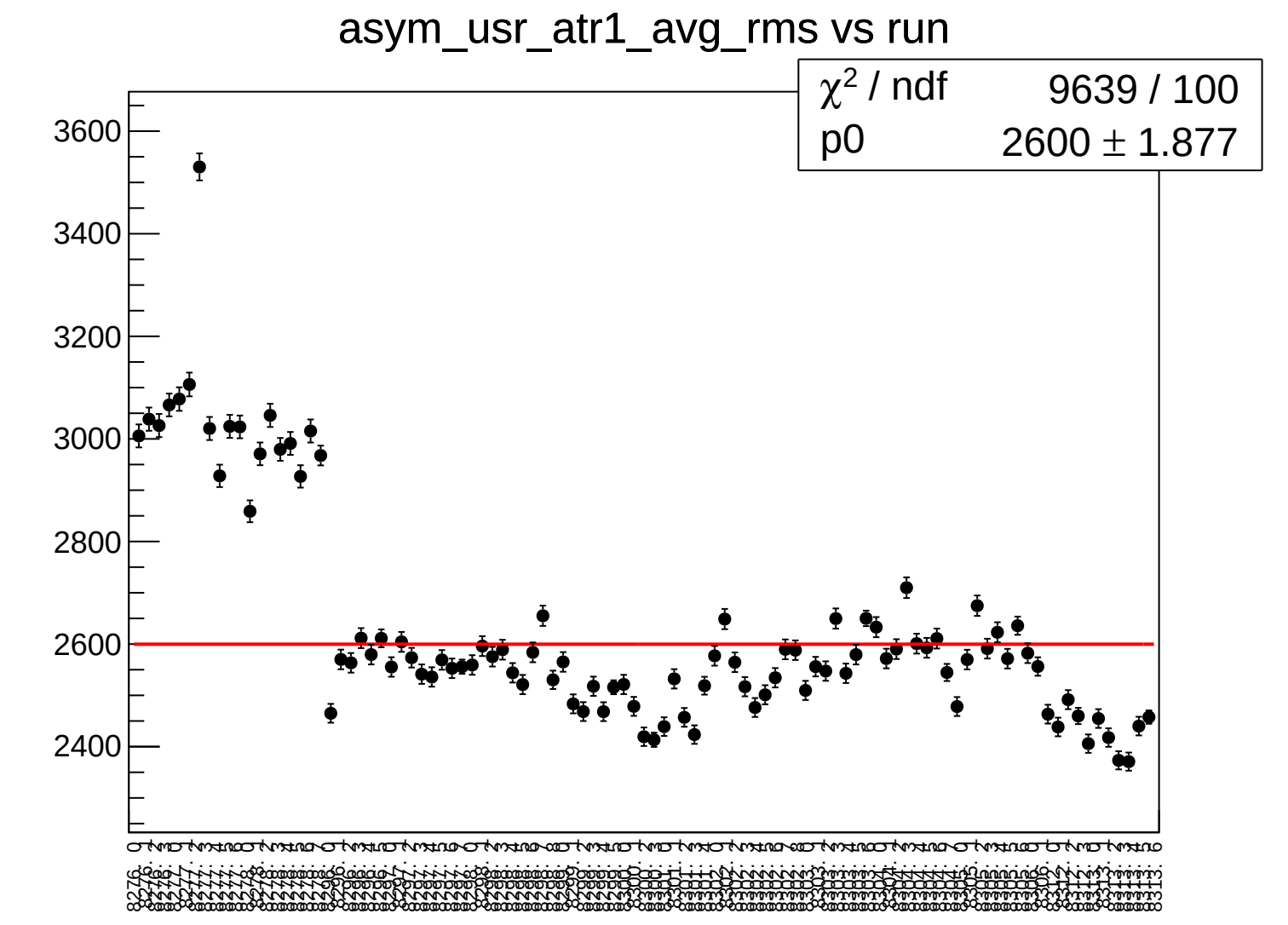

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 113.9 / 100
p0 −2740 ± 2034
pull
Entries 101
Mean −890.6
Std Dev 0

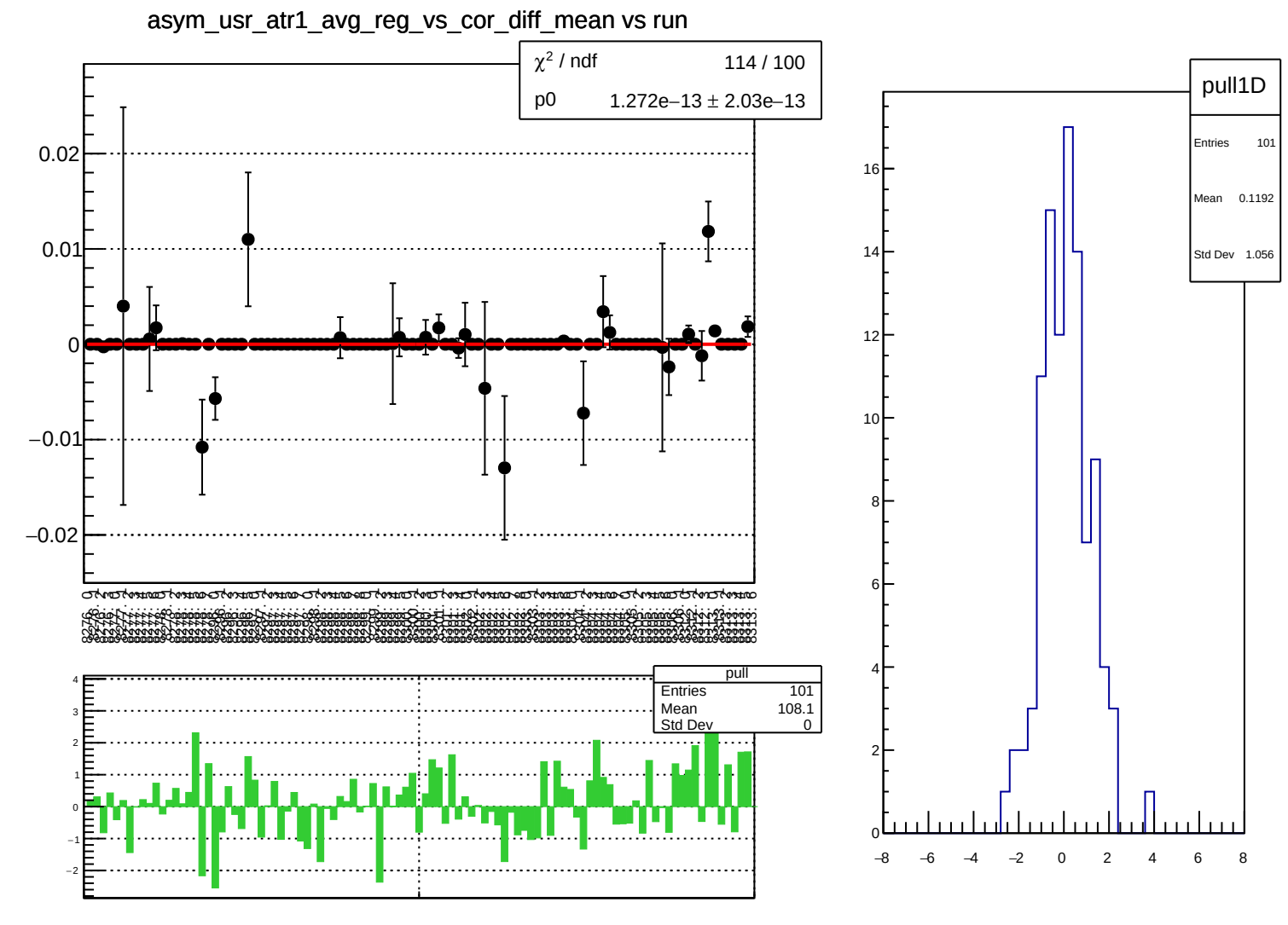

pull1D
Entries 101
Mean 0.006757
Std Dev 1.062

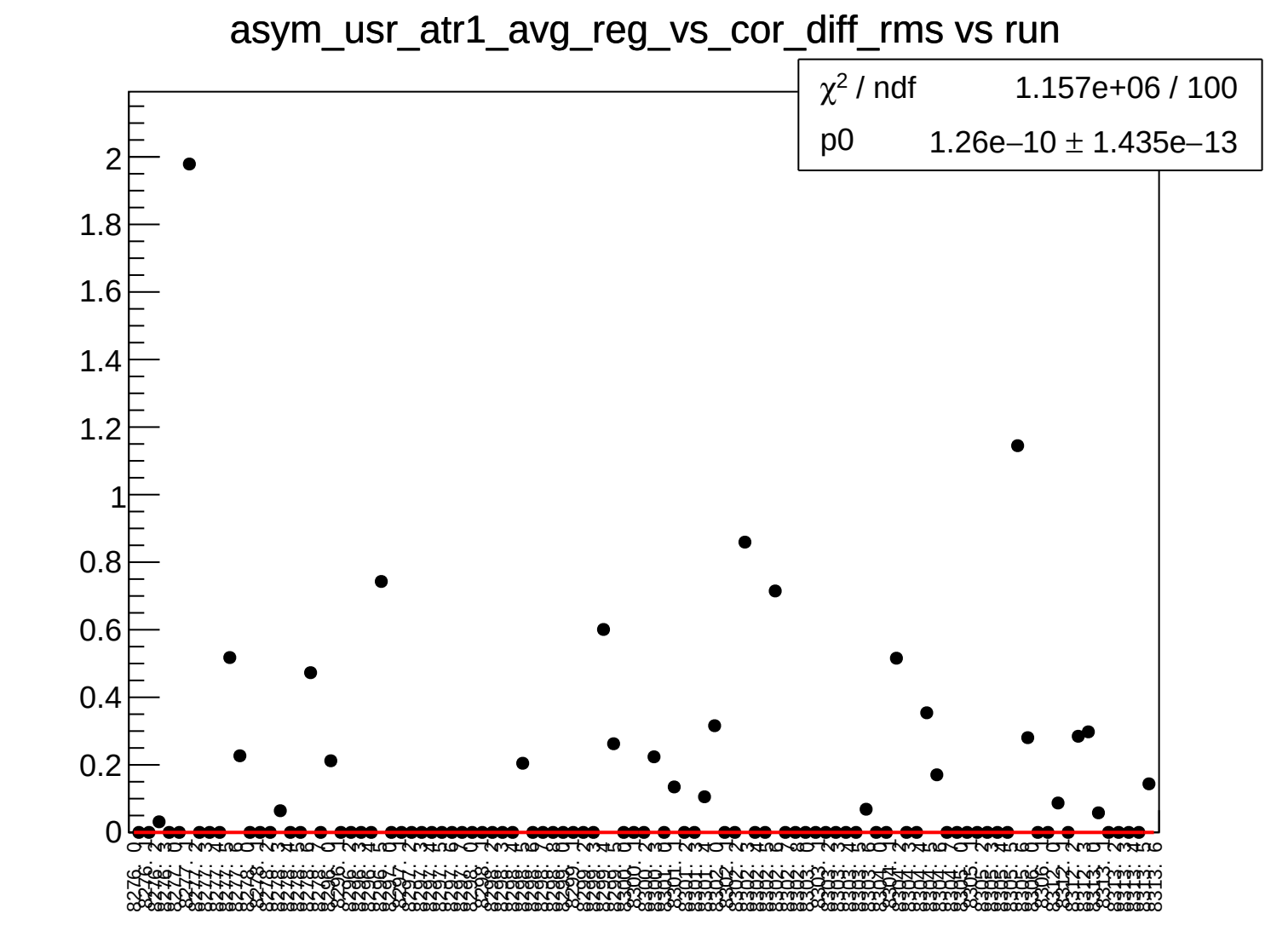

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.929e+04 / 100
p0 1987 ± 1.438
3000
2800
2600
2400
2200
2000
1800

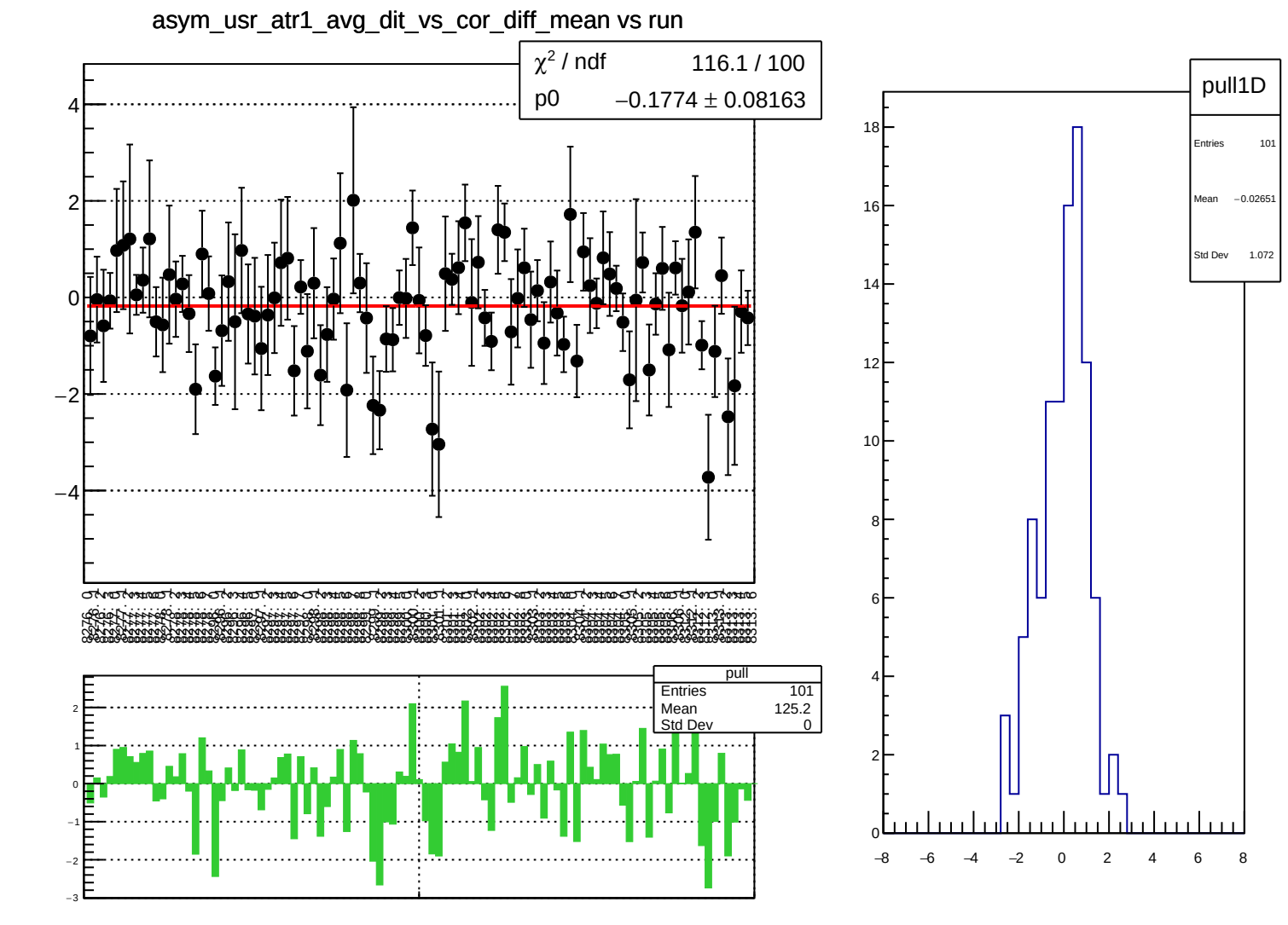

asym_usr_atr1_avg_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 97.91 / 100
p0 3800 ± 2655
pull
Entries 101
Mean −671.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

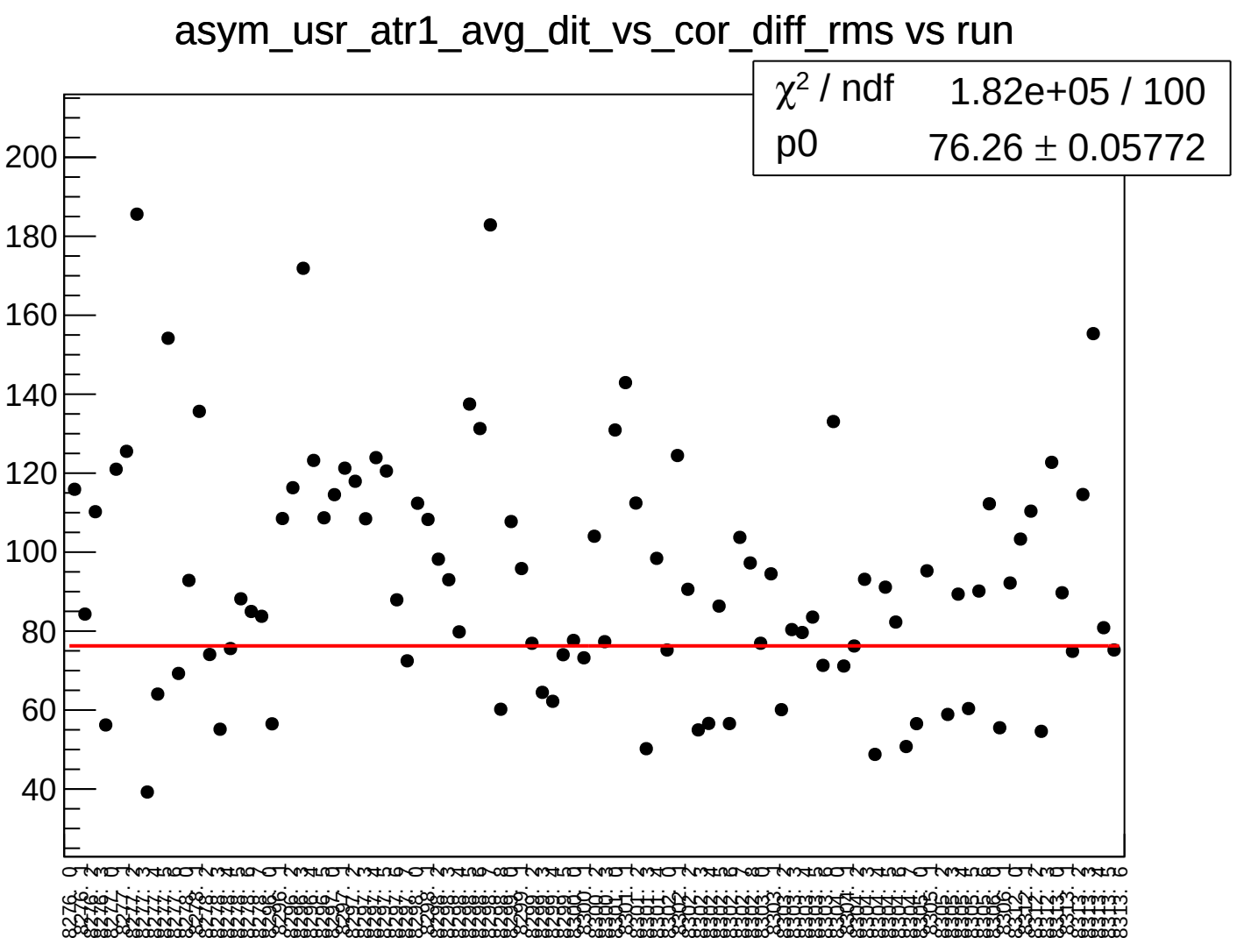

pull1D
Entries 101
Mean −0.005989
Std Dev 0.9846
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

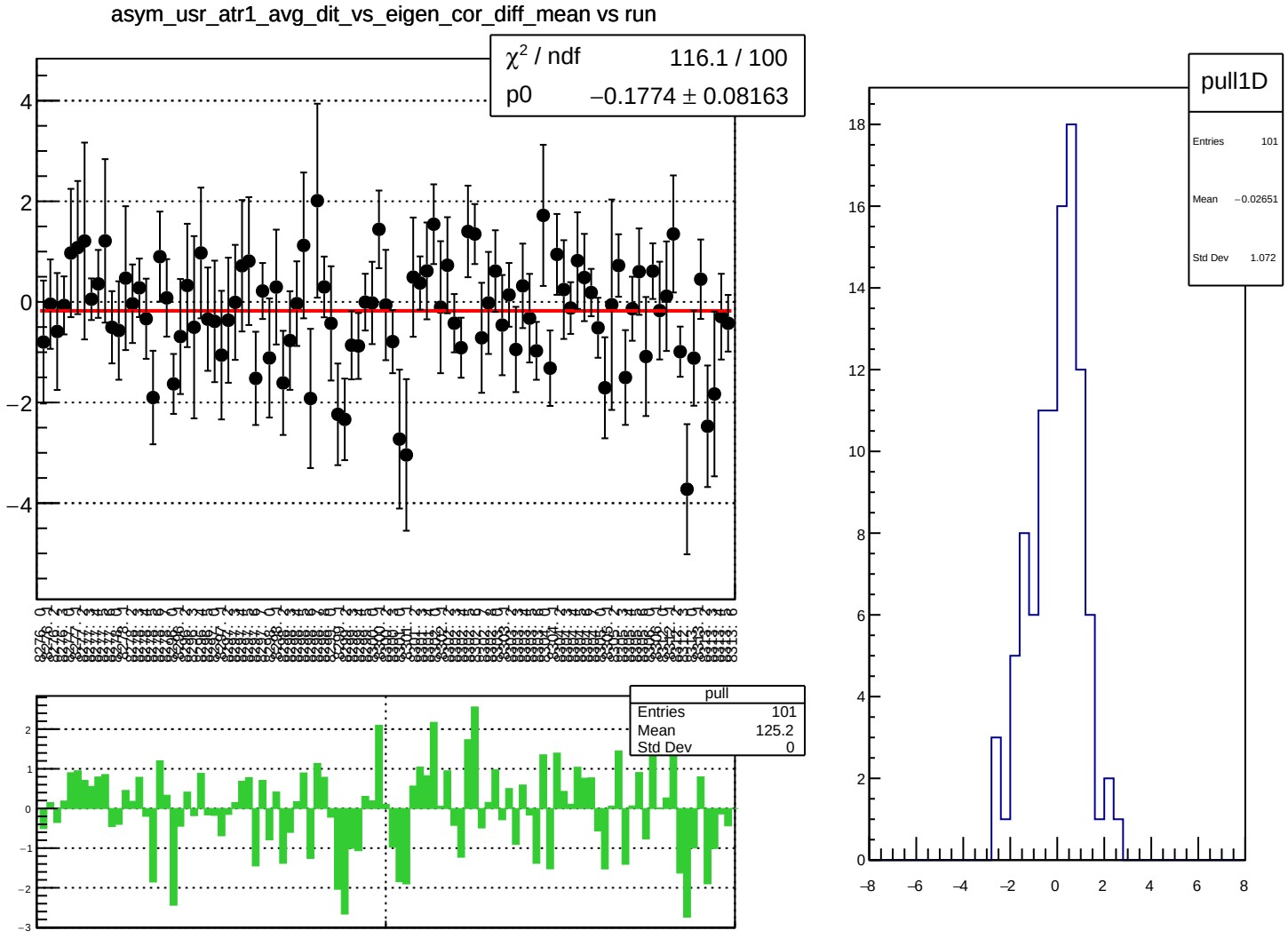

asym_usr_atr1_avg_rms vs run
χ^2 / ndf 9639 / 100
p0 2600 ± 1.877
3600
3400
3200
3000
2800
2600
2400

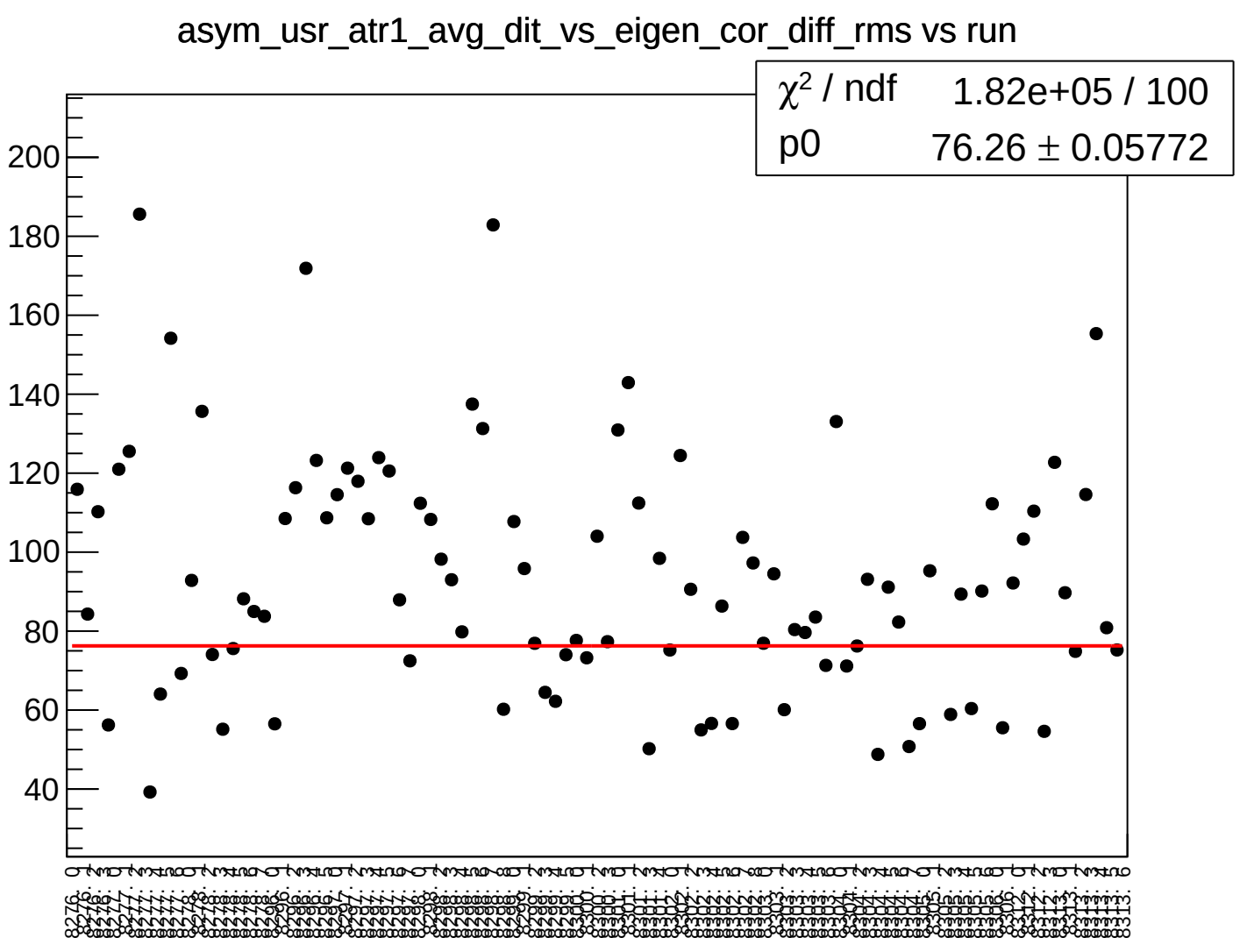

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 114 / 100
p0 1.272e−13 ± 2.03e−13
0.02
0.01
0
−0.01
−0.02
pull
Entries 101
Mean 108.1
Std Dev 0
pull1D
Entries 101
Mean 0.1192
Std Dev 1.056

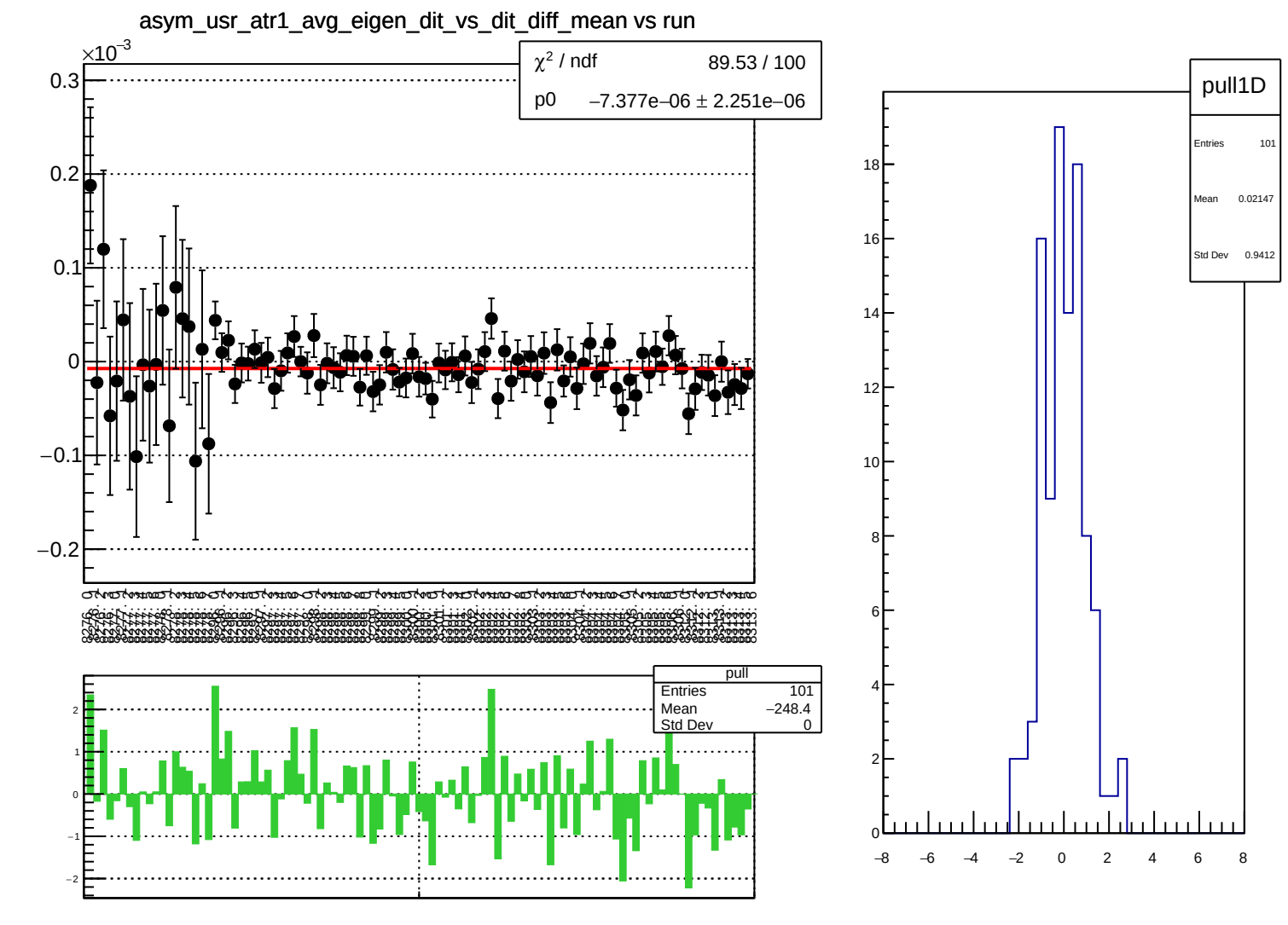

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.157e+06 / 100
p0 1.26e−10 ± 1.435e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

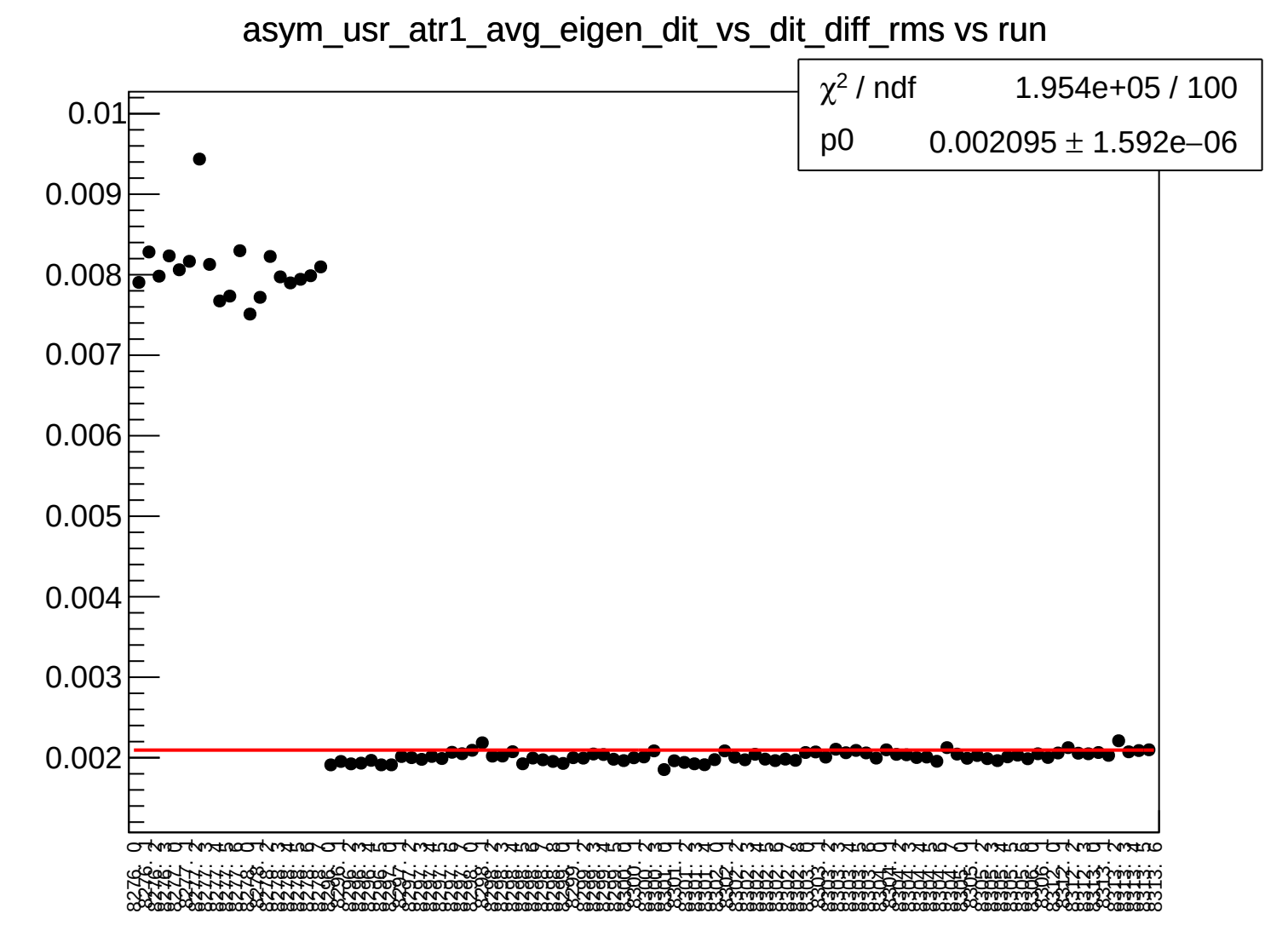

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 116.1 / 100
p0 −0.1774 ± 0.08163
pull
Entries 101
Mean 125.2
Std Dev 0
pull1D
Entries 101
Mean −0.02651
Std Dev 1.072

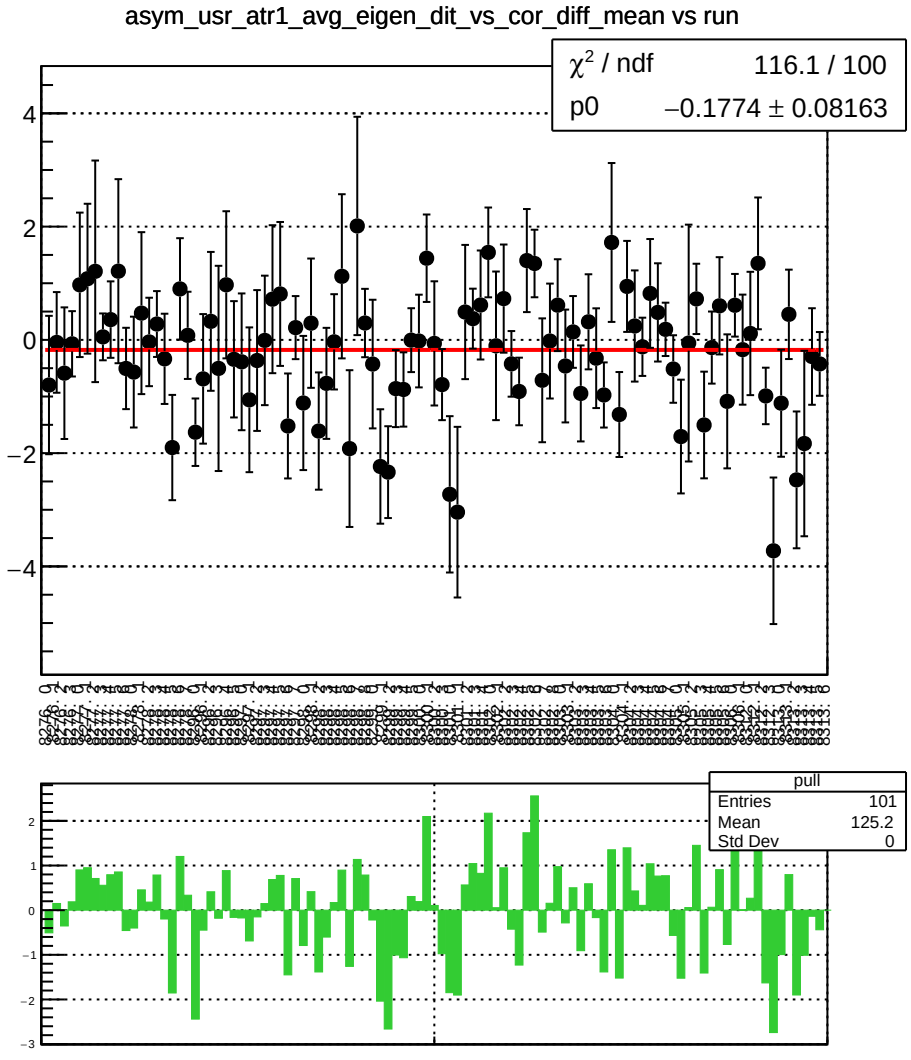

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.82e+05 / 100
p0 76.26 ± 0.05772
200
180
160
140
120
100
80
60
40

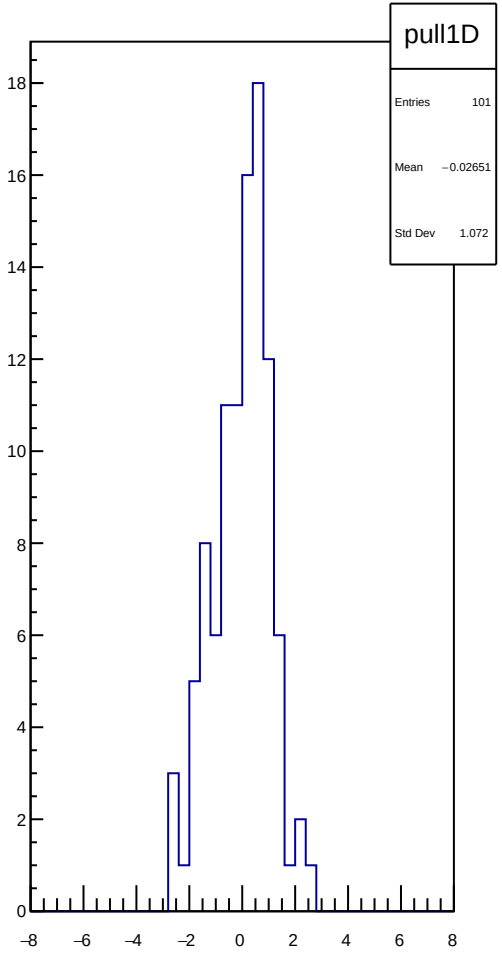

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 116.1 / 100
p0 −0.1774 ± 0.08163
pull
Entries 101
Mean 125.2
Std Dev 0
pull1D
Entries 101
Mean −0.02651
Std Dev 1.072

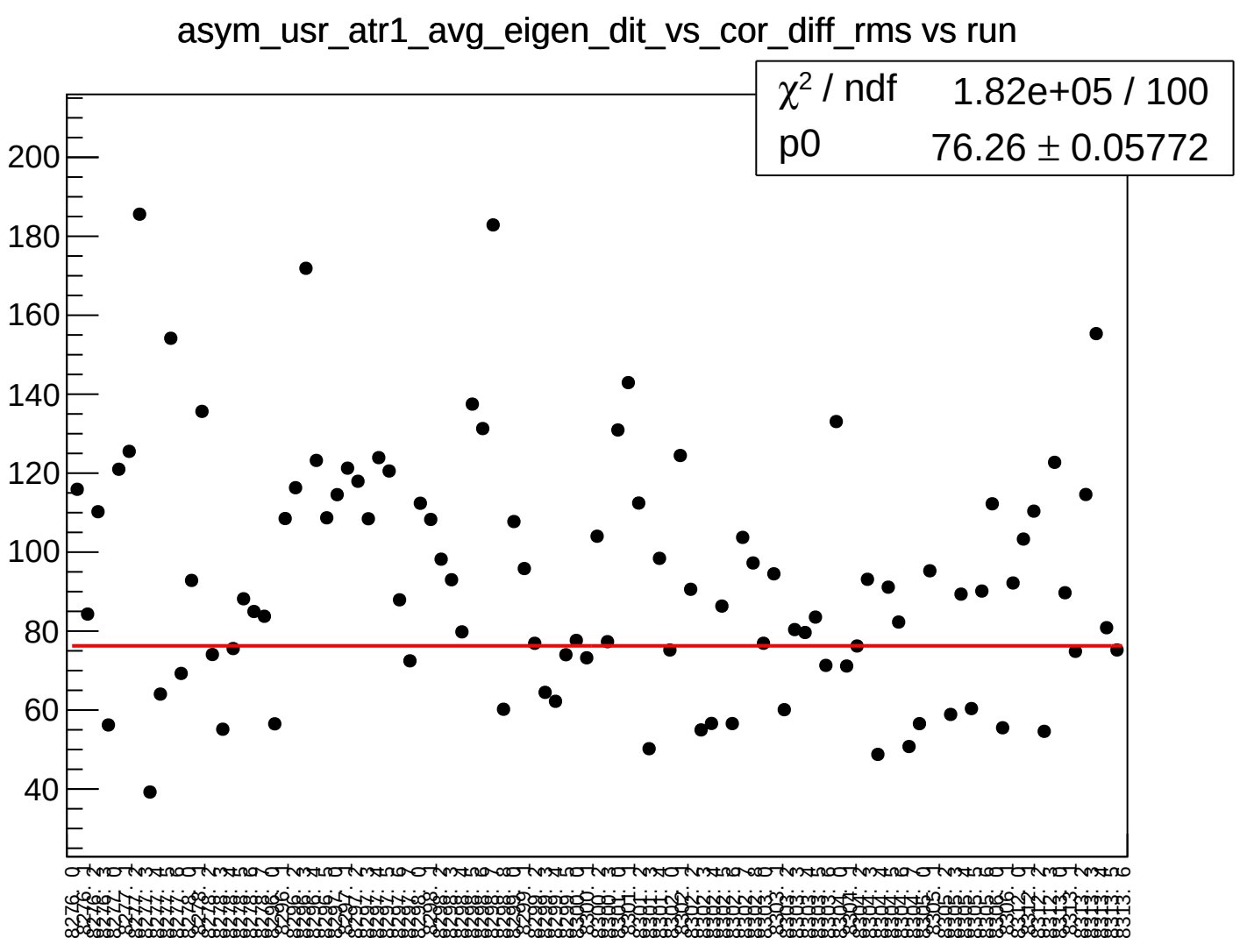

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.82e+05 / 100
p0 76.26 ± 0.05772
200
180
160
140
120
100
80
60
40

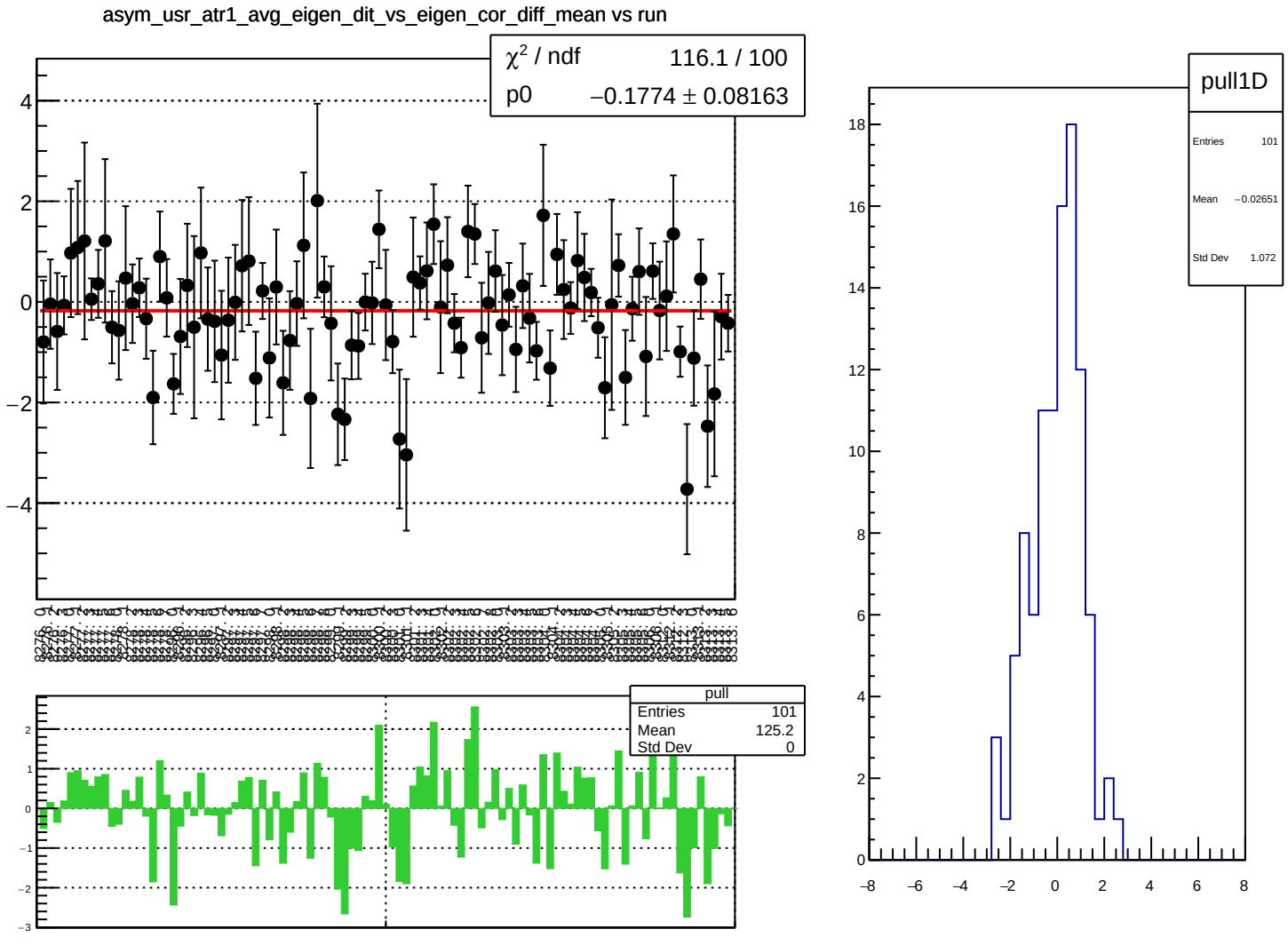

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.53 / 100
p0 −7.377e−06 ± 2.251e−06
0.3
0.2
0.1
0
−0.1
−0.2
pull
Entries 101
Mean −248.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.02147
Std Dev 0.9412
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

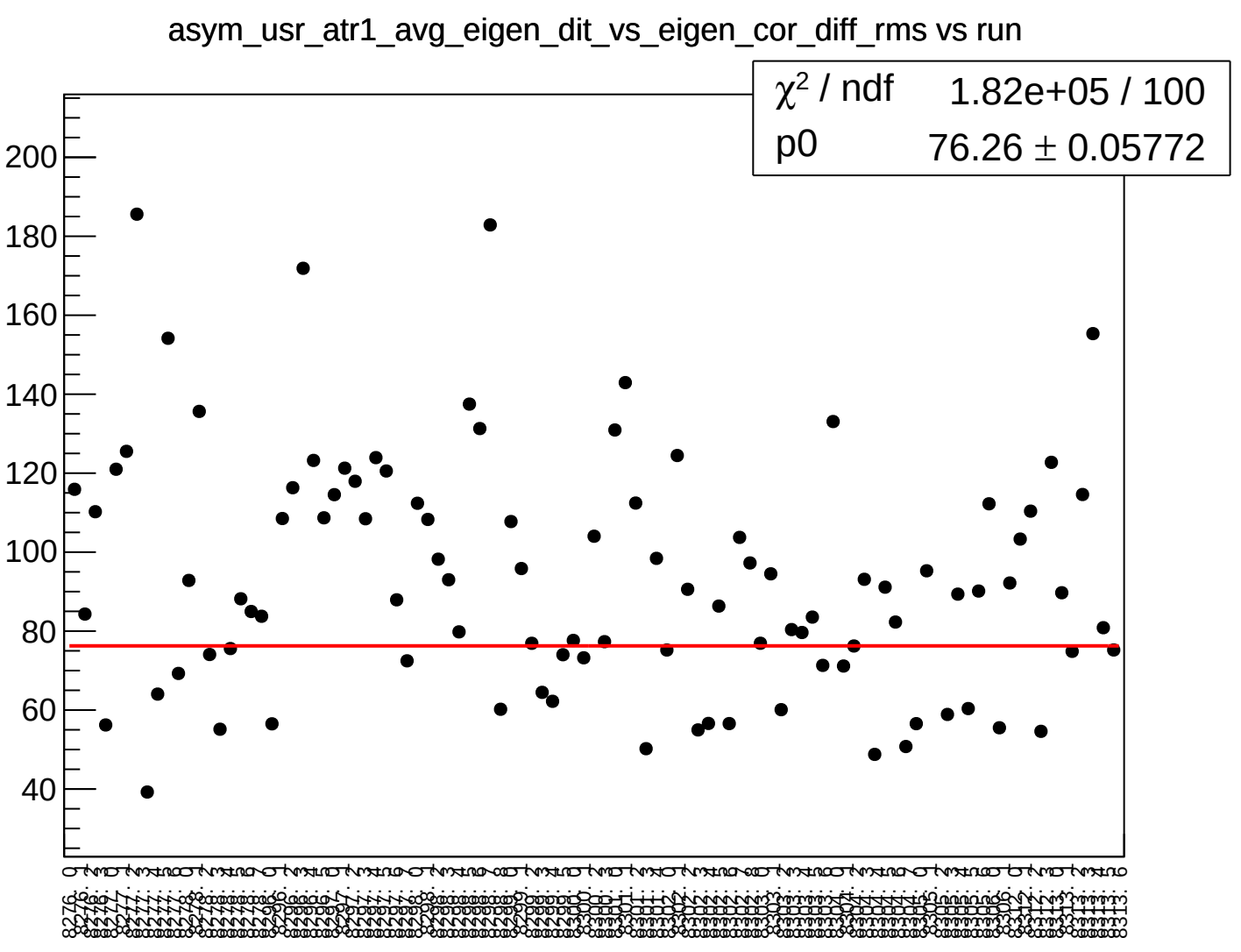

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.954e+05 / 100
p0 0.002095 ± 1.592e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

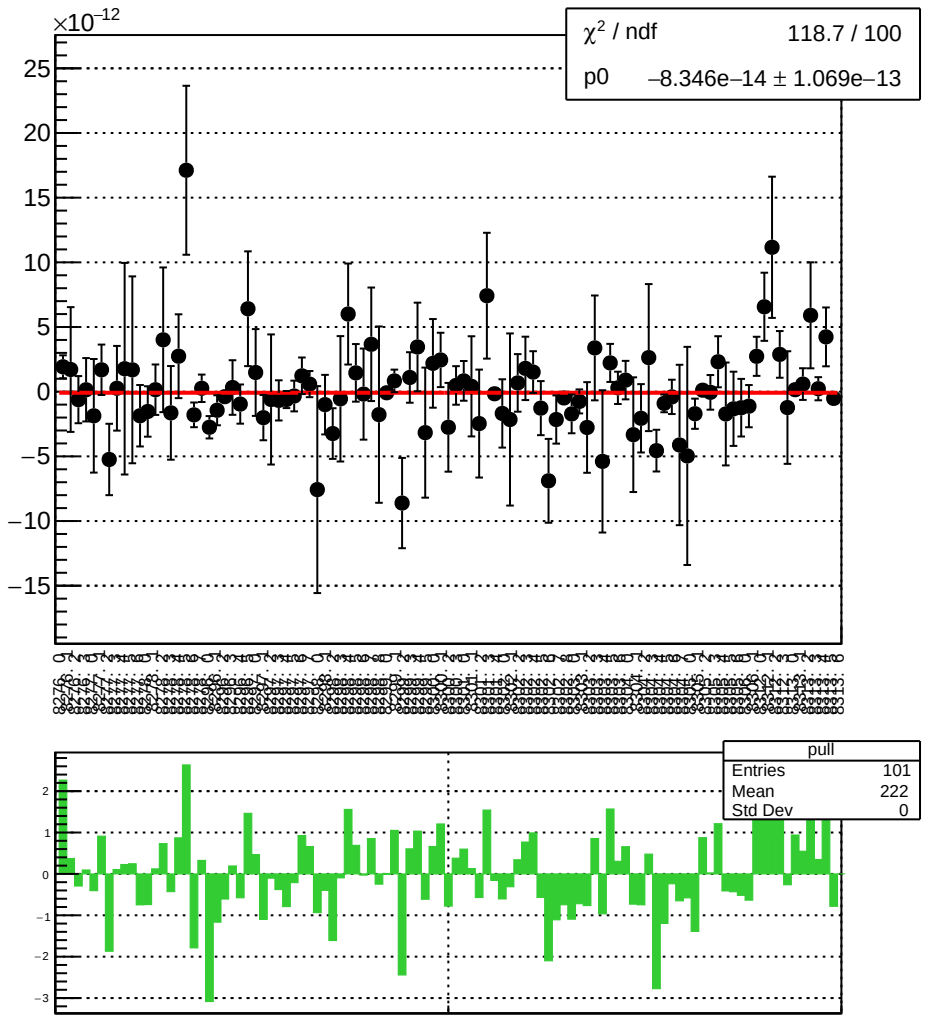

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 116.1 / 100
p0 −0.1774 ± 0.08163
pull
Entries 101
Mean 125.2
Std Dev 0

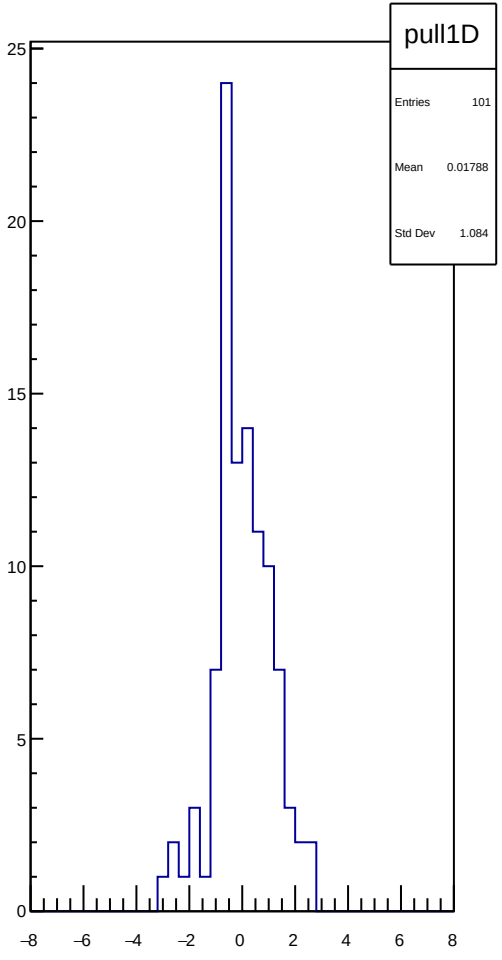

pull1D
Entries 101
Mean −0.02651
Std Dev 1.072

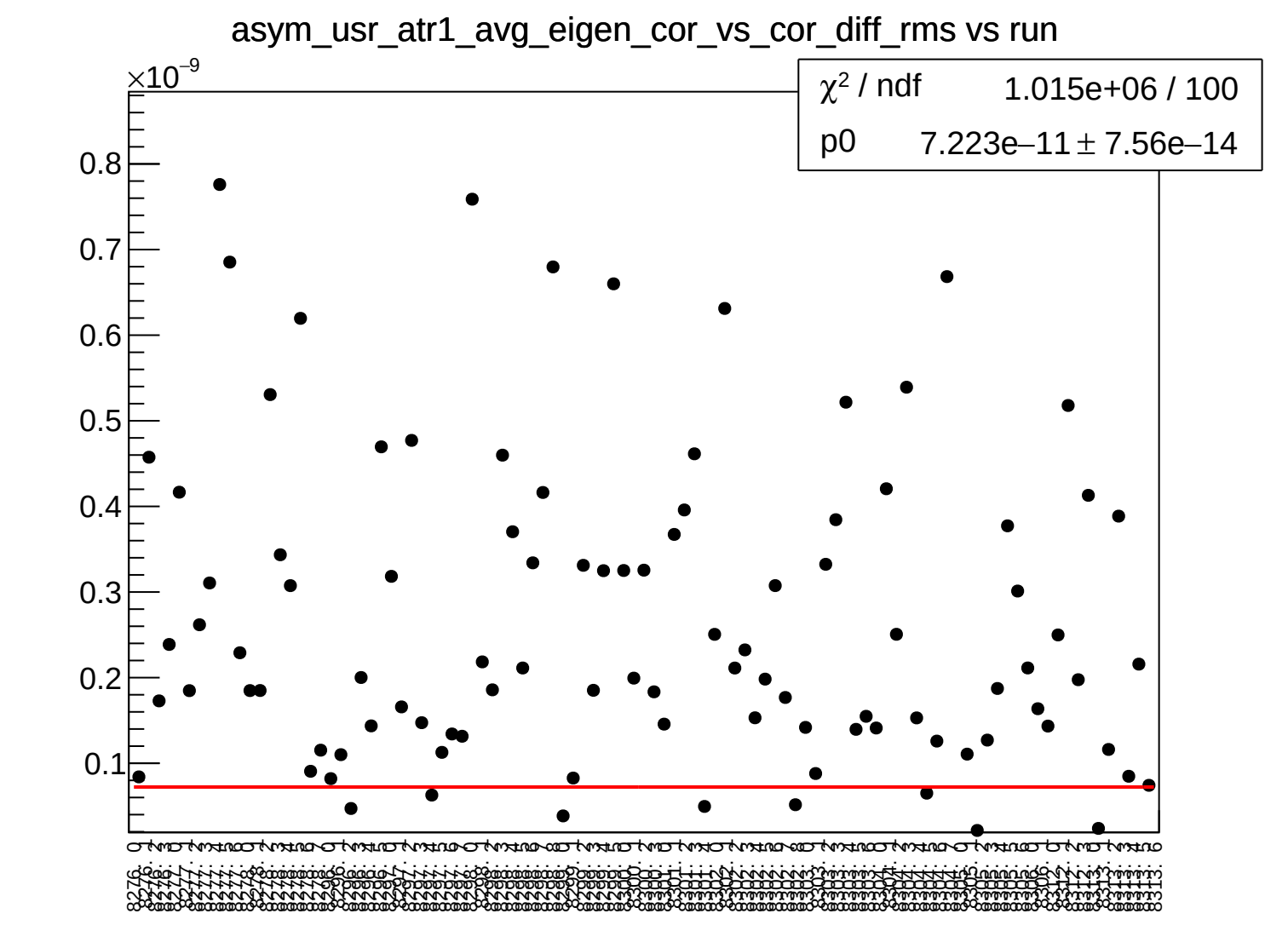

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.82e+05 / 100
p0 76.26 ± 0.05772
200
180
160
140
120
100
80
60
40

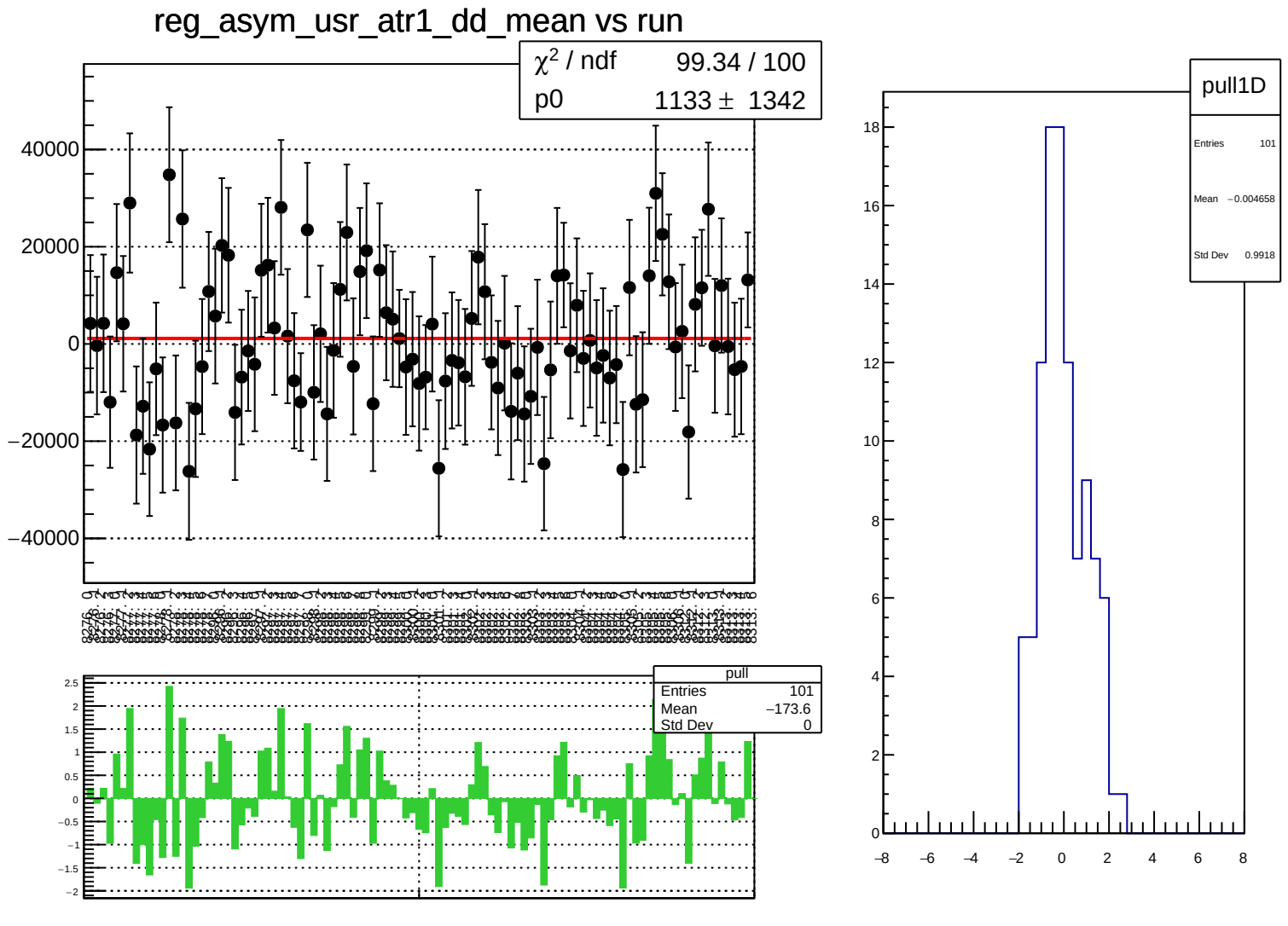

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 116.1 / 100
p0 −0.1774 ± 0.08163
pull
Entries 101
Mean 125.2
Std Dev 0
pull1D
Entries 101
Mean −0.02651
Std Dev 1.072

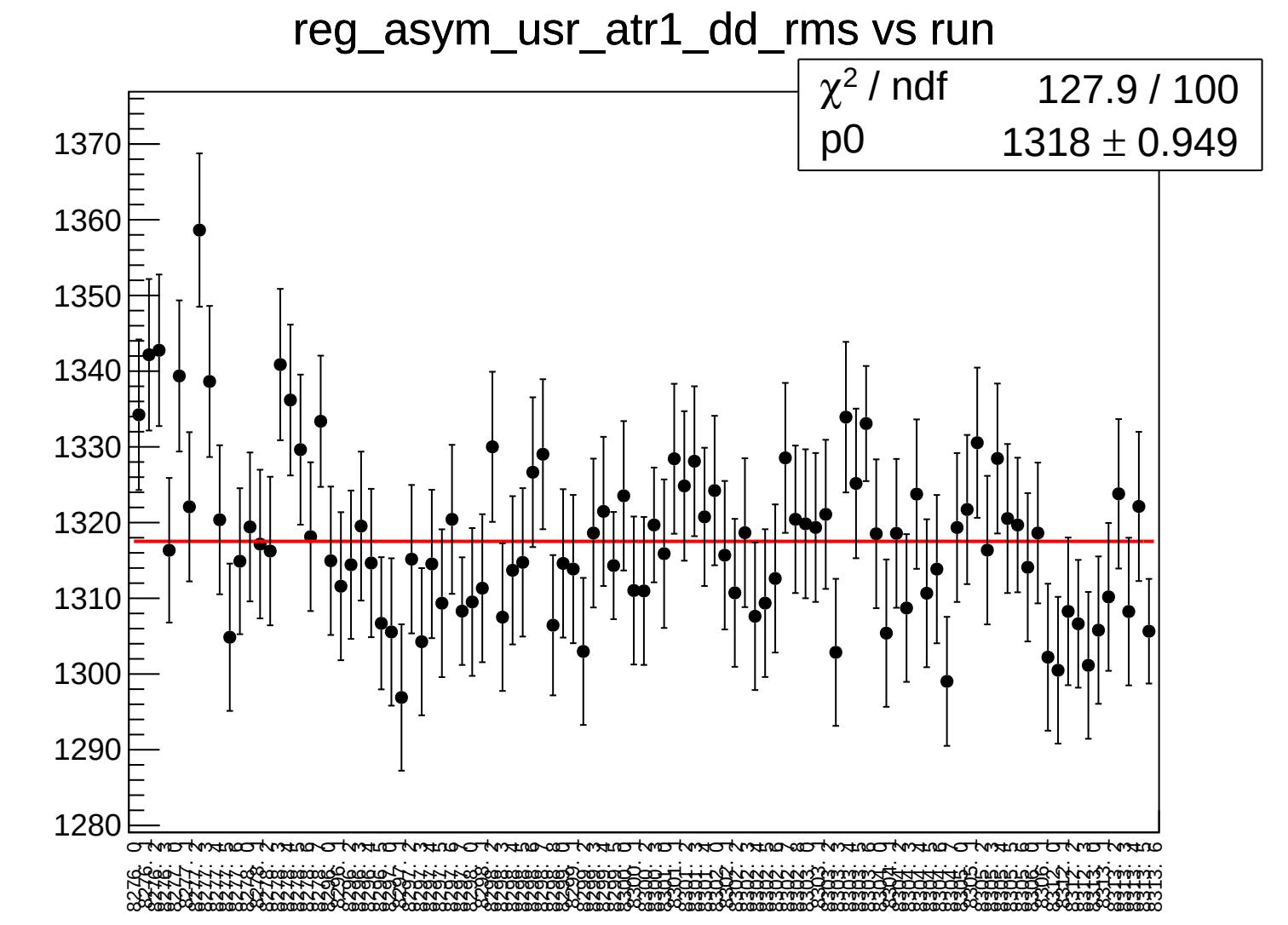

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.82e+05 / 100
p0 76.26 ± 0.05772
200
180
160
140
120
100
80
60
40

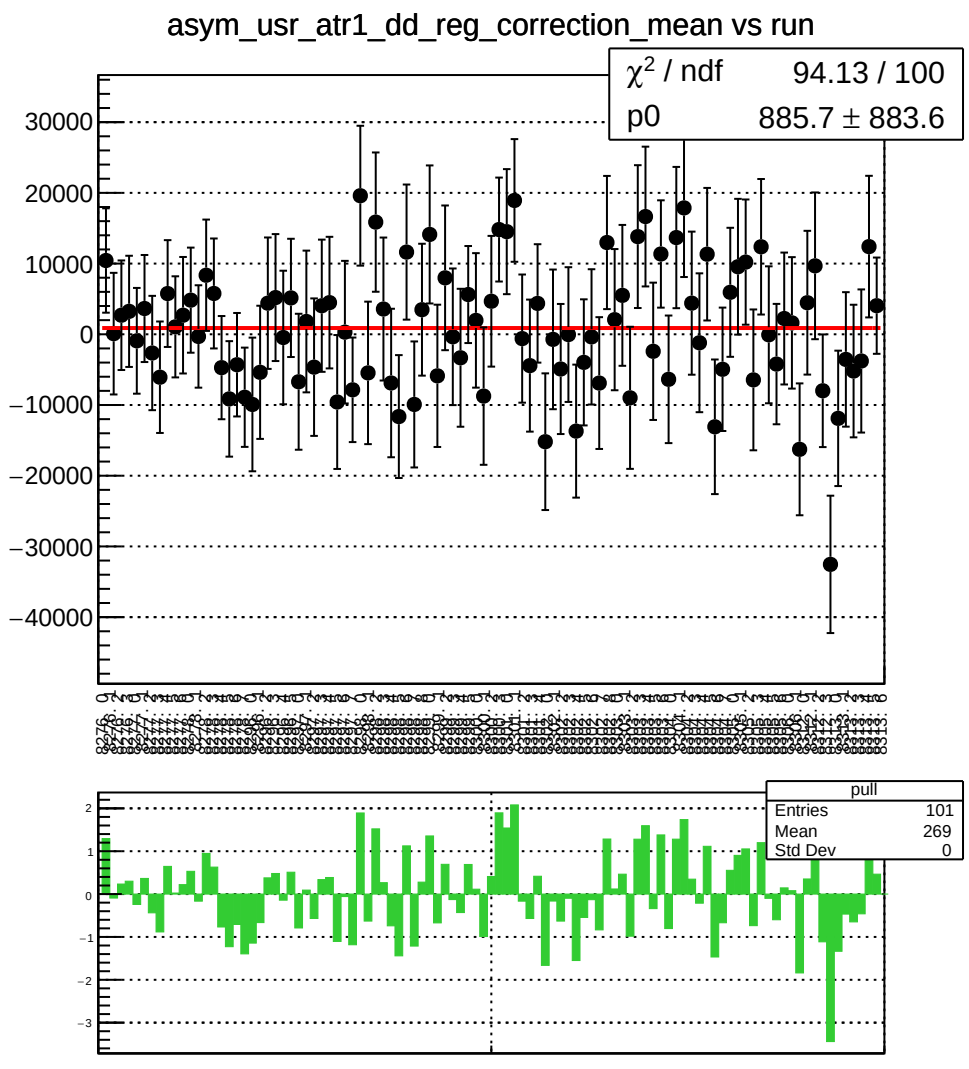

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 118.7 / 100
p0 −8.346e−14 ± 1.069e−13
pull
Entries 101
Mean 222
Std Dev 0

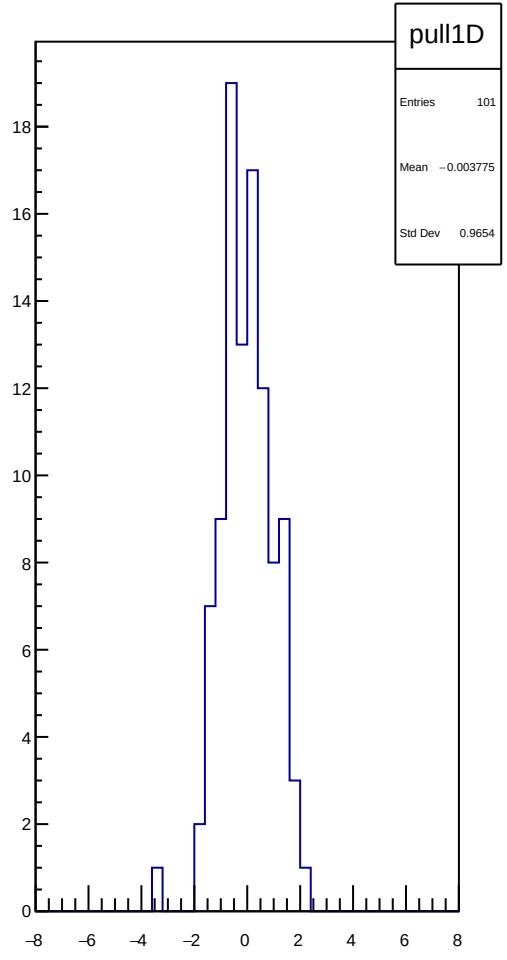

pull1D
Entries 101
Mean 0.01788
Std Dev 1.084

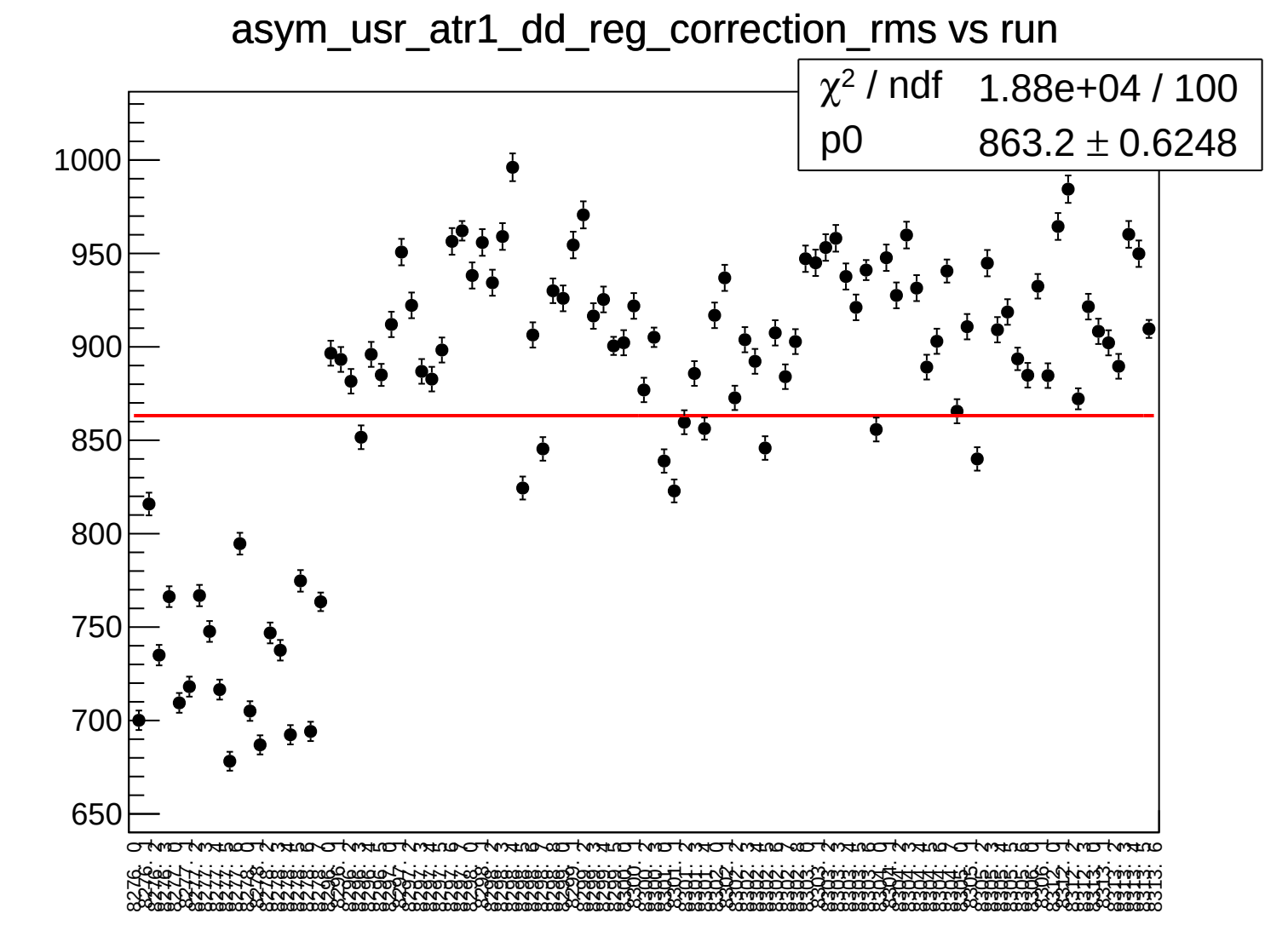

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.015e+06 / 100
p0 7.223e−11 ± 7.56e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

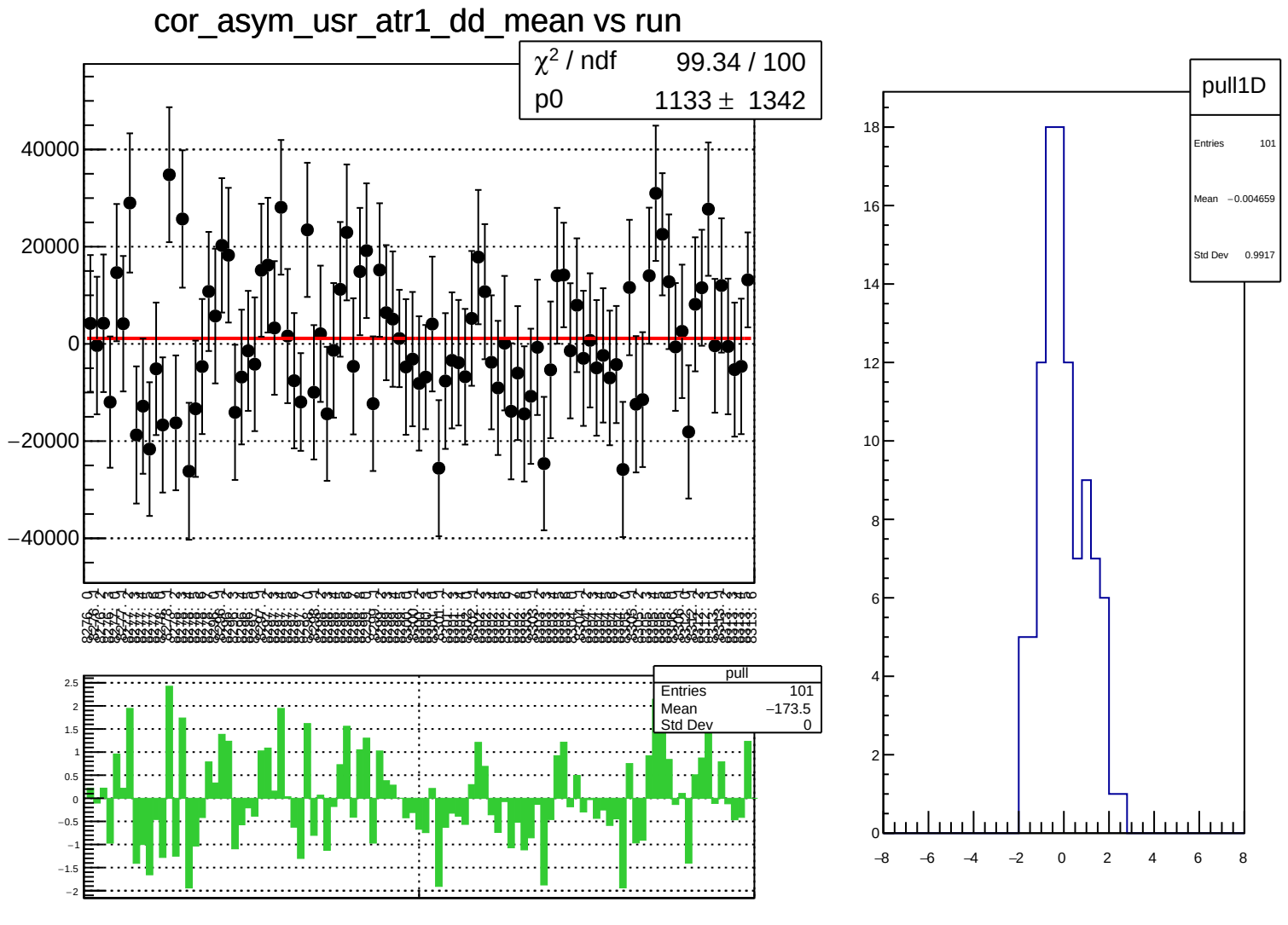

reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 99.34 / 100
p0 1133 ± 1342
40000
20000
0
−20000
−40000
pull
Entries 101
Mean −173.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 101
Mean −0.004658
Std Dev 0.9918
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

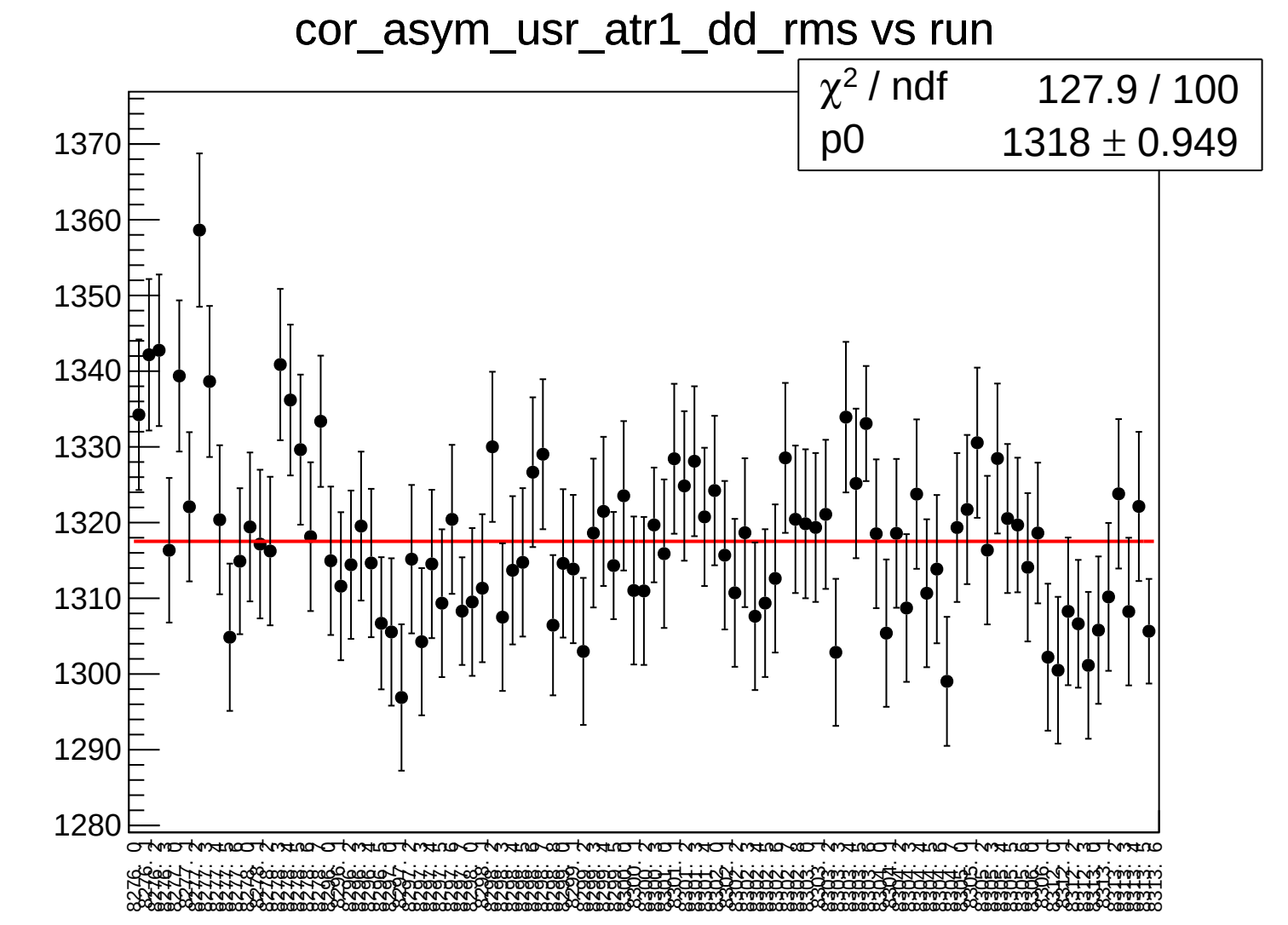

reg_asym_usr_atr1_dd_rms vs run
χ² / ndf 127.9 / 100
p0 1318 ± 0.949
1370
1360
1350
1340
1330
1320
1310
1300
1290
1280

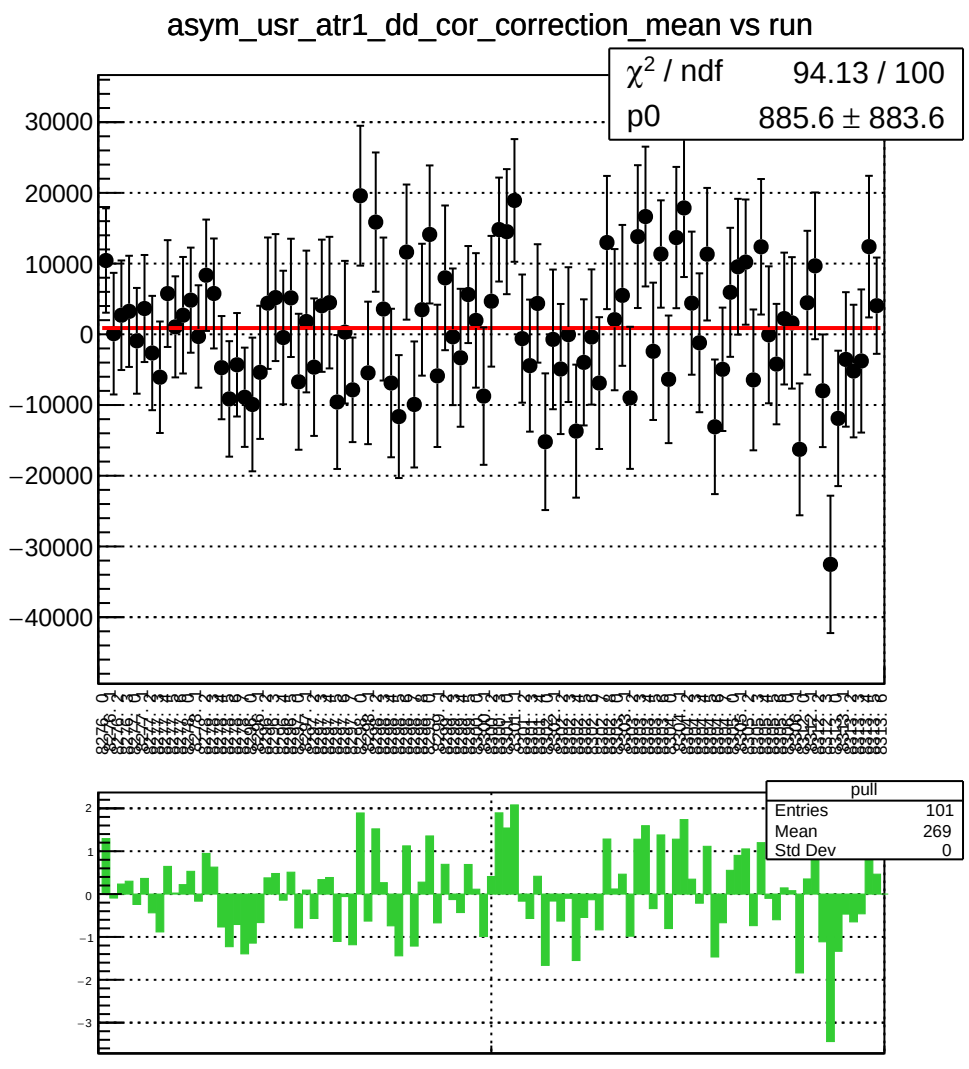

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 94.13 / 100
p0 885.7 ± 883.6
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 101
Mean 269
Std Dev 0
2
1
0
−1
−2
−3

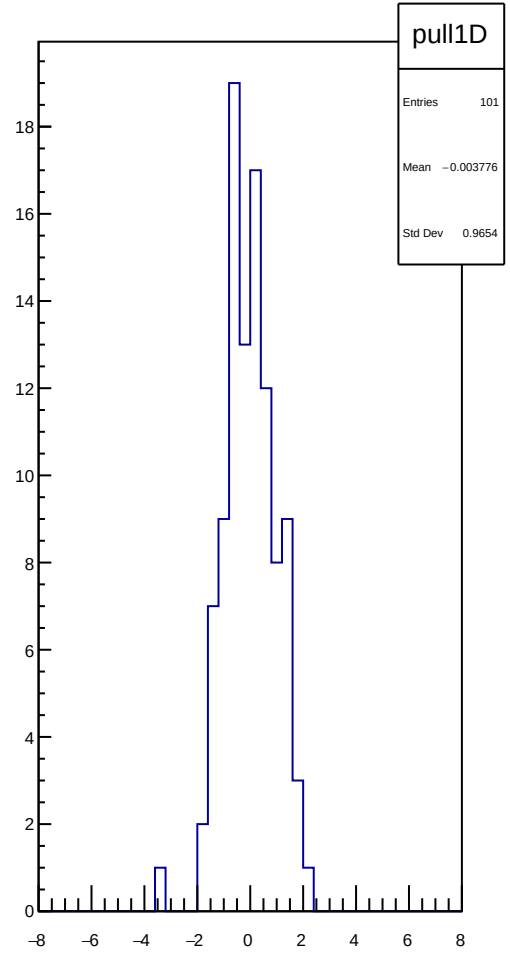

pull1D
Entries 101
Mean −0.003775
Std Dev 0.9654
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

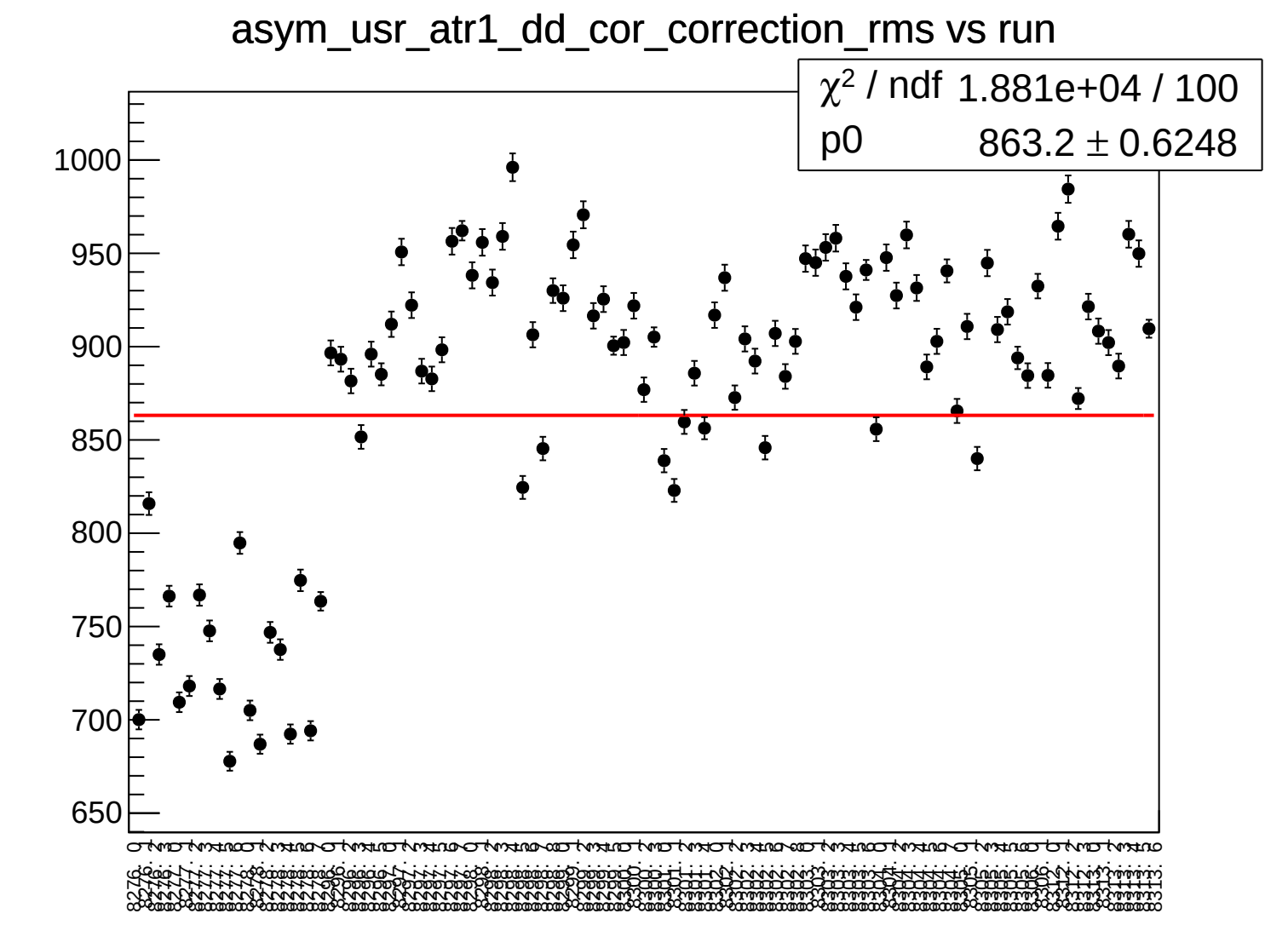

asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 1.88e+04 / 100
p0 863.2 ± 0.6248
1000
950
900
850
800
750
700
650

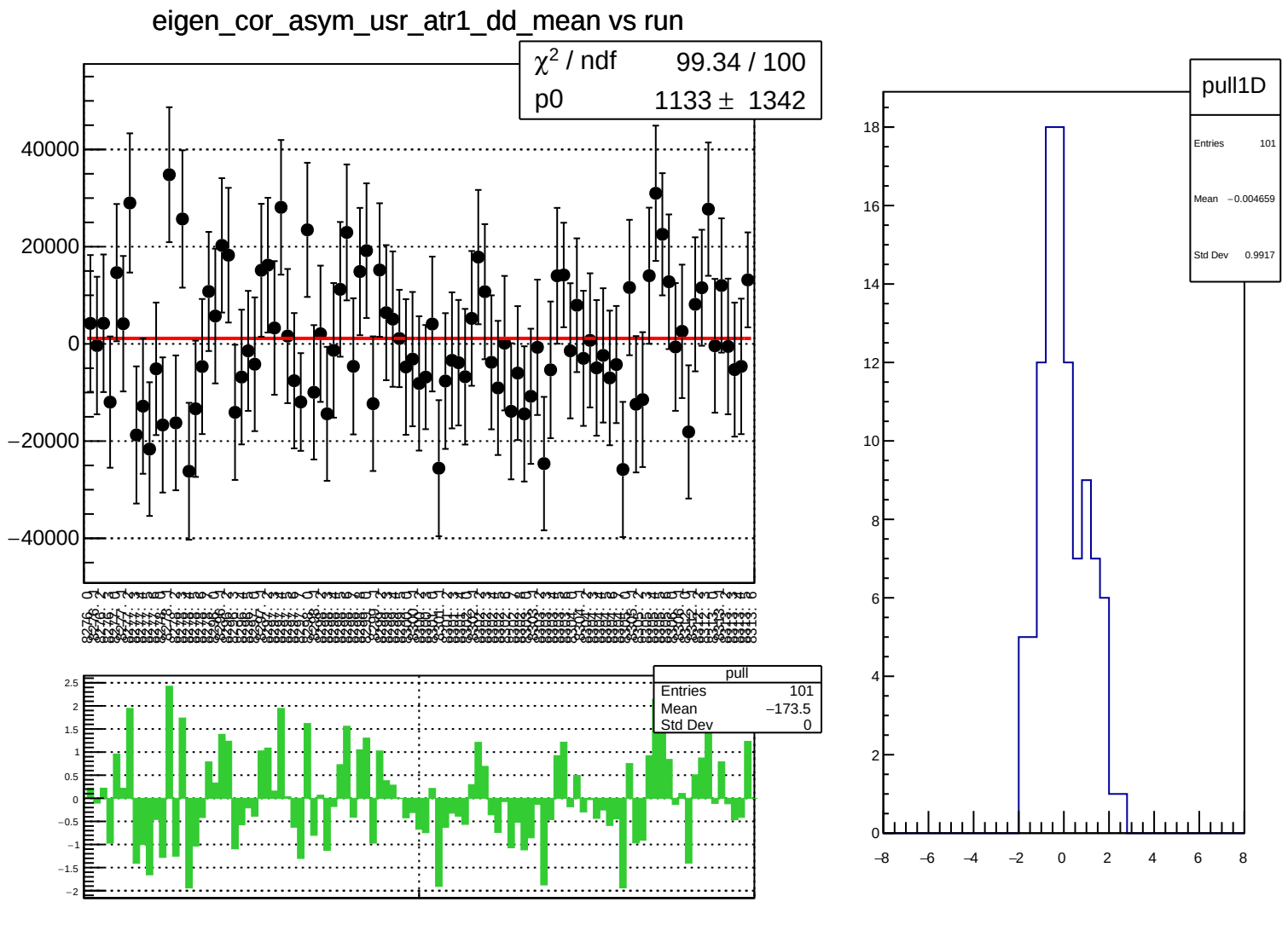

cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 99.34 / 100
p0 1133 ± 1342
40000
20000
0
−20000
−40000
pull
Entries 101
Mean −173.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 101
Mean −0.004659
Std Dev 0.9917
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

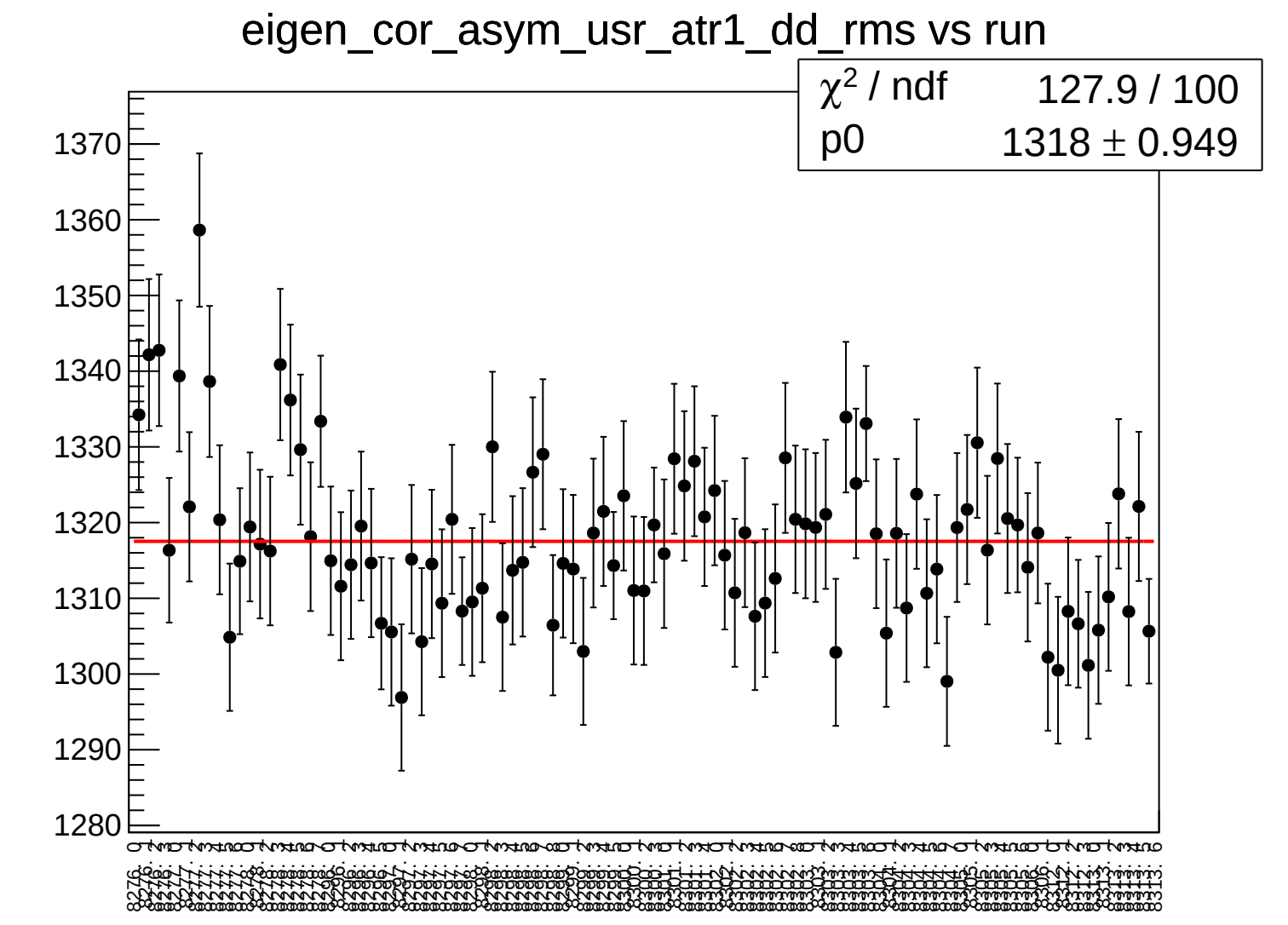

cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 127.9 / 100
p0 1318 ± 0.949
1370
1360
1350
1340
1330
1320
1310
1300
1290
1280

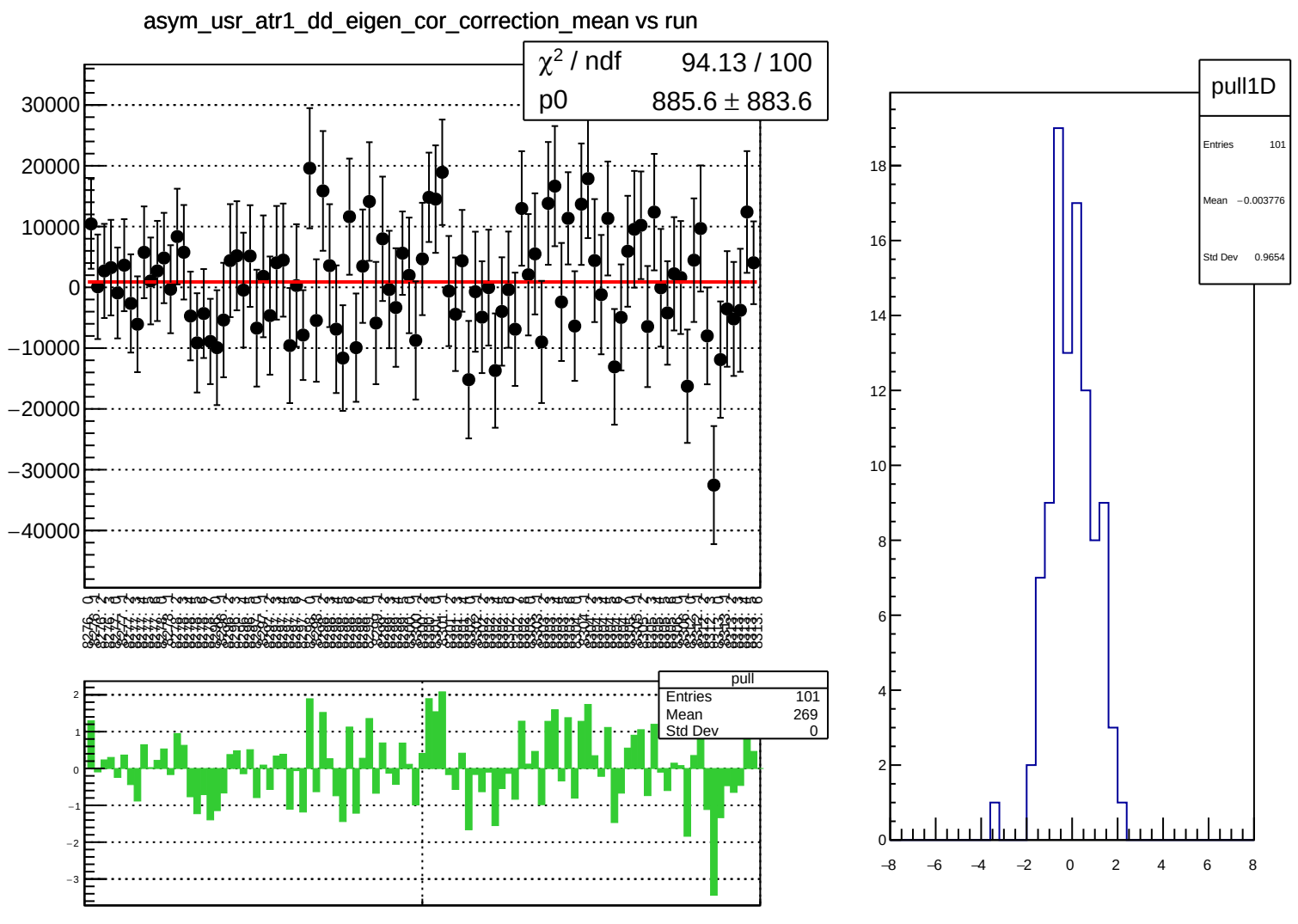

asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 94.13 / 100
p0 885.6 ± 883.6
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 101
Mean 269
Std Dev 0
2
1
0
−1
−2
−3

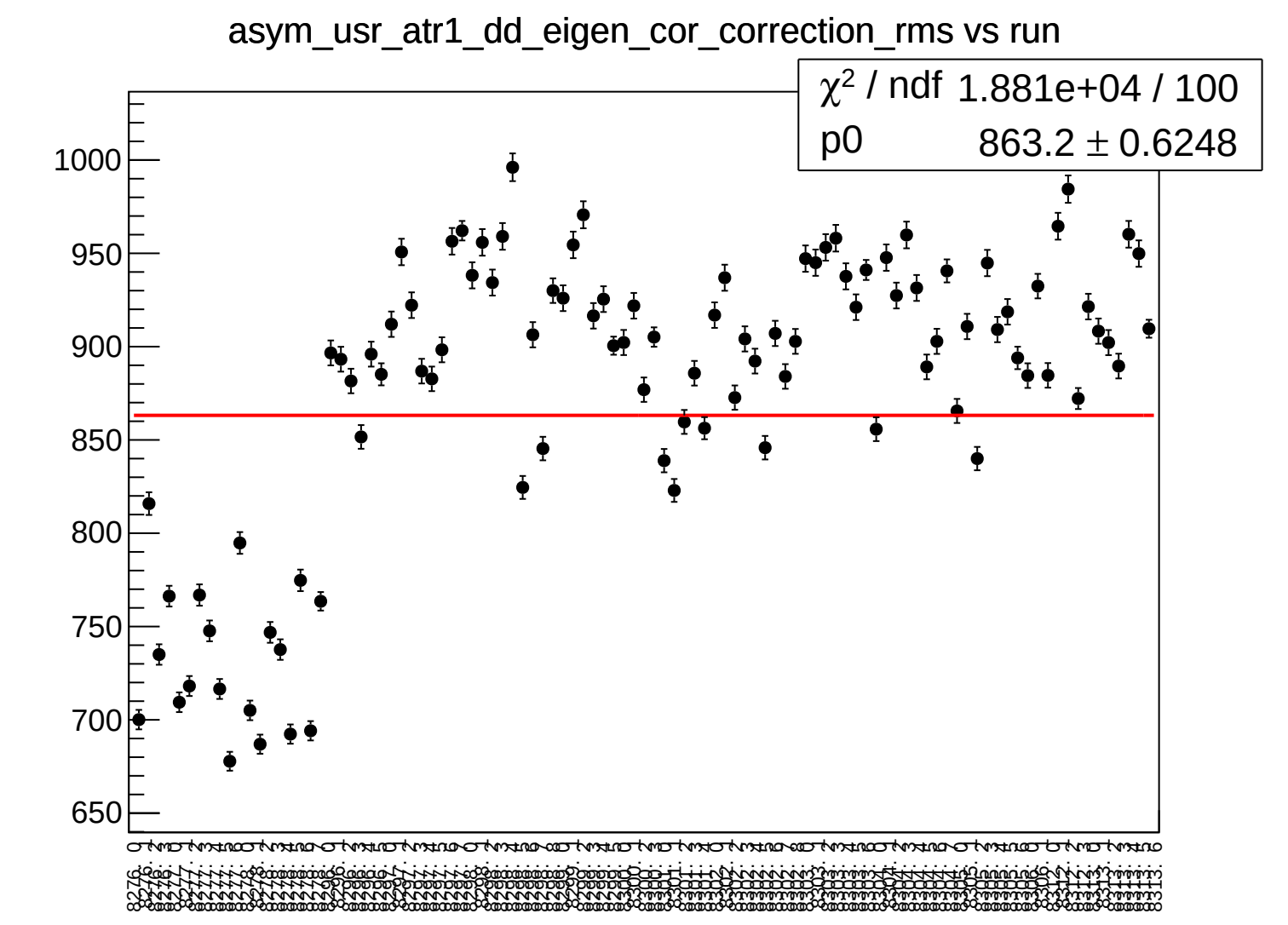

pull1D
Entries 101
Mean −0.003776
Std Dev 0.9654
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

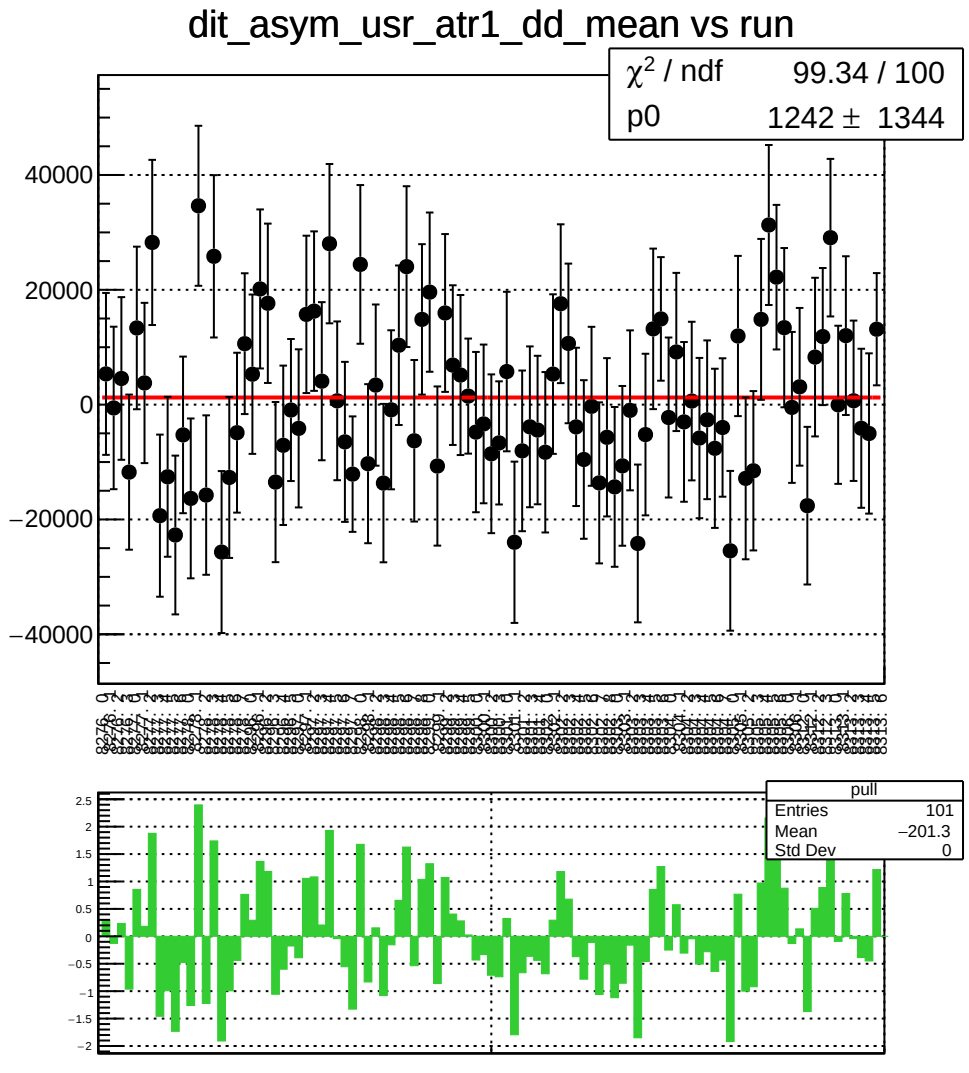

asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 1.881e+04 / 100
p0 863.2 ± 0.6248
1000
950
900
850
800
750
700
650

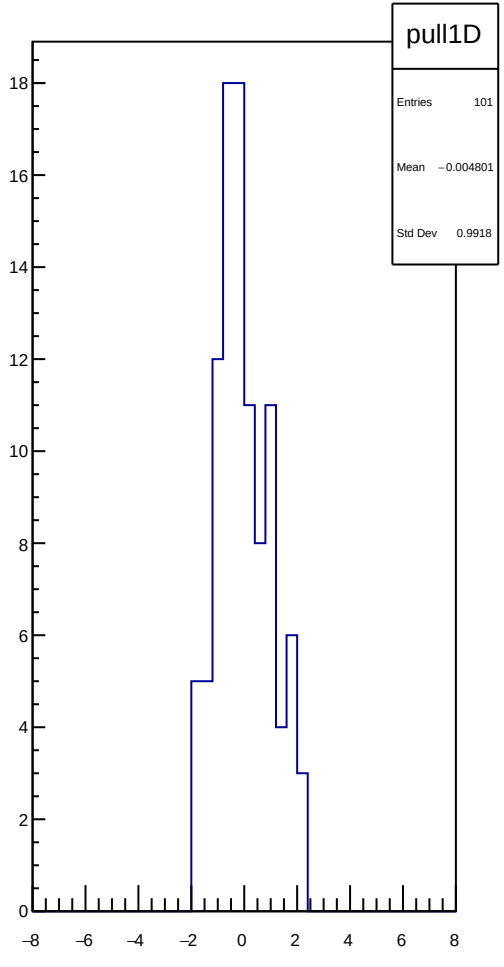

eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 99.34 / 100
p0 1133 ± 1342
40000
20000
0
−20000
−40000
pull
Entries 101
Mean −173.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 101
Mean −0.004659
Std Dev 0.9917
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

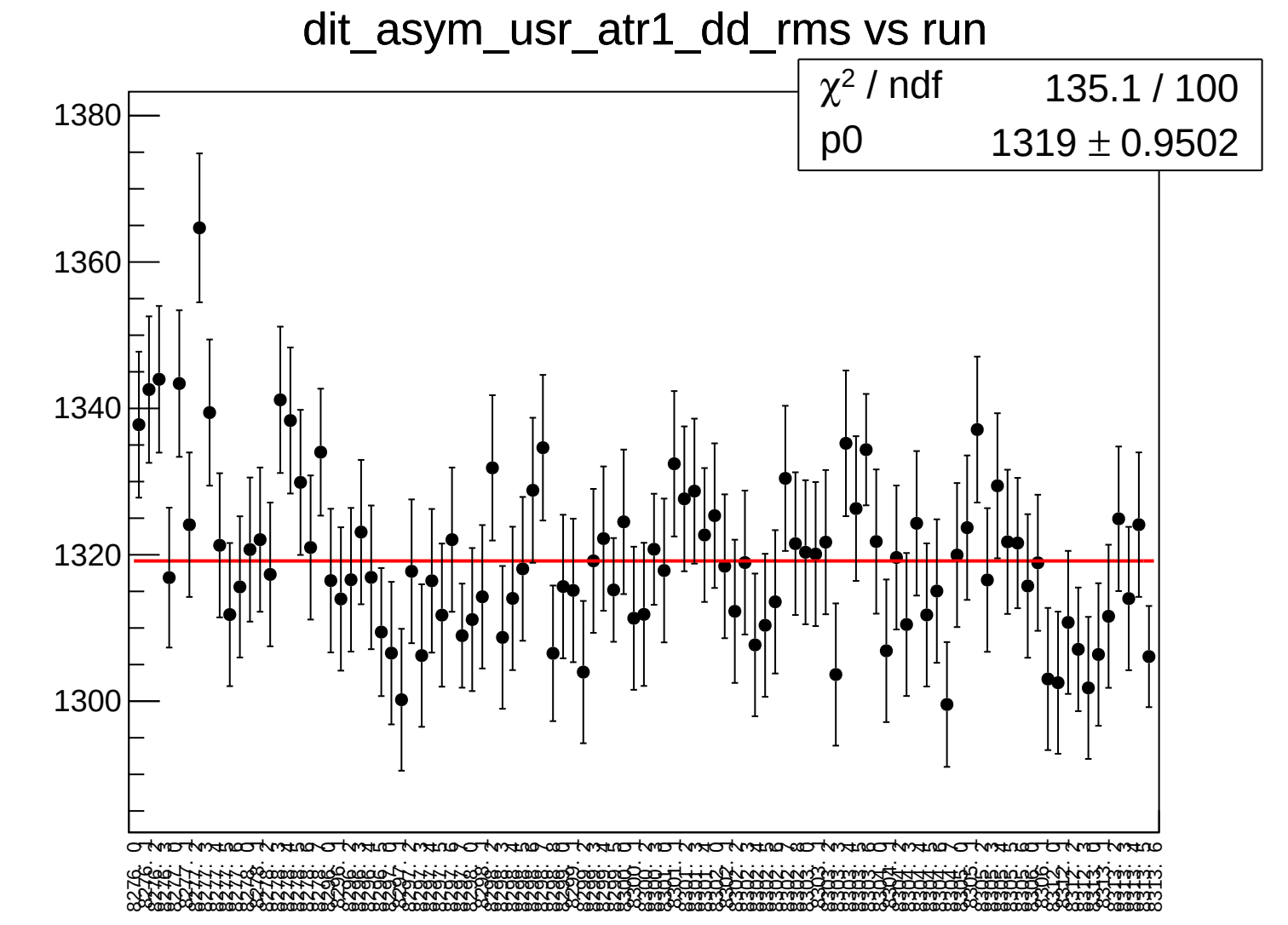

eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 127.9 / 100
p0 1318 ± 0.949
1370
1360
1350
1340
1330
1320
1310
1300
1290
1280

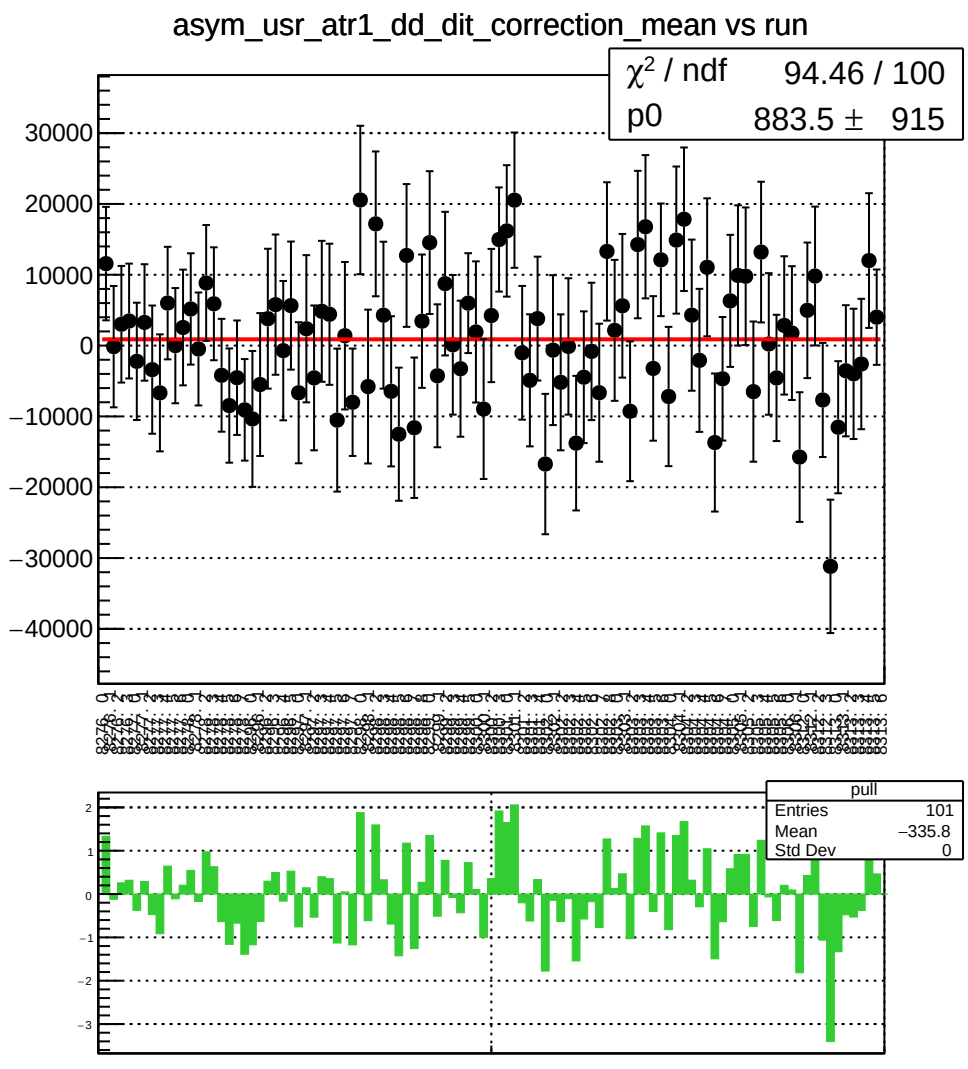

asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 94.13 / 100
p0 885.6 ± 883.6
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 101
Mean 269
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean −0.003776
Std Dev 0.9654
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

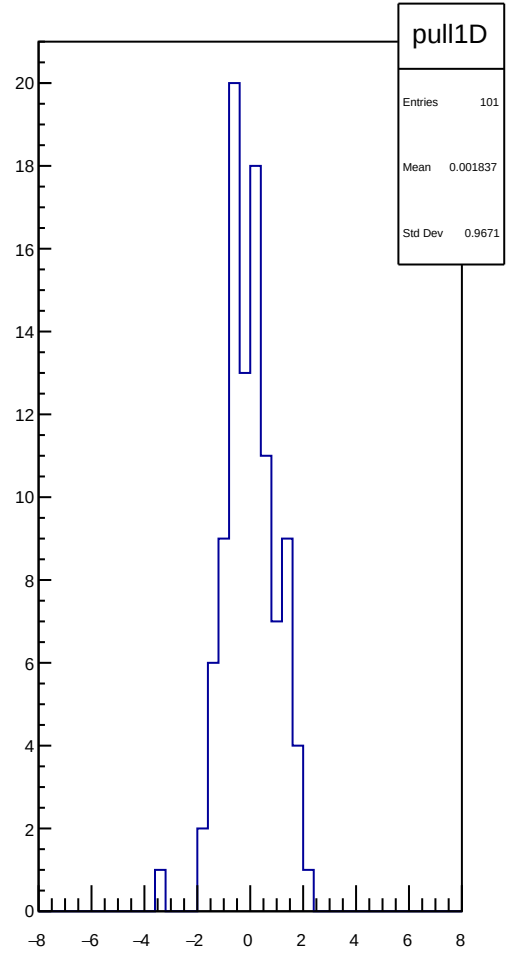

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.881e+04 / 100
p0 863.2 ± 0.6248
1000
950
900
850
800
750
700
650

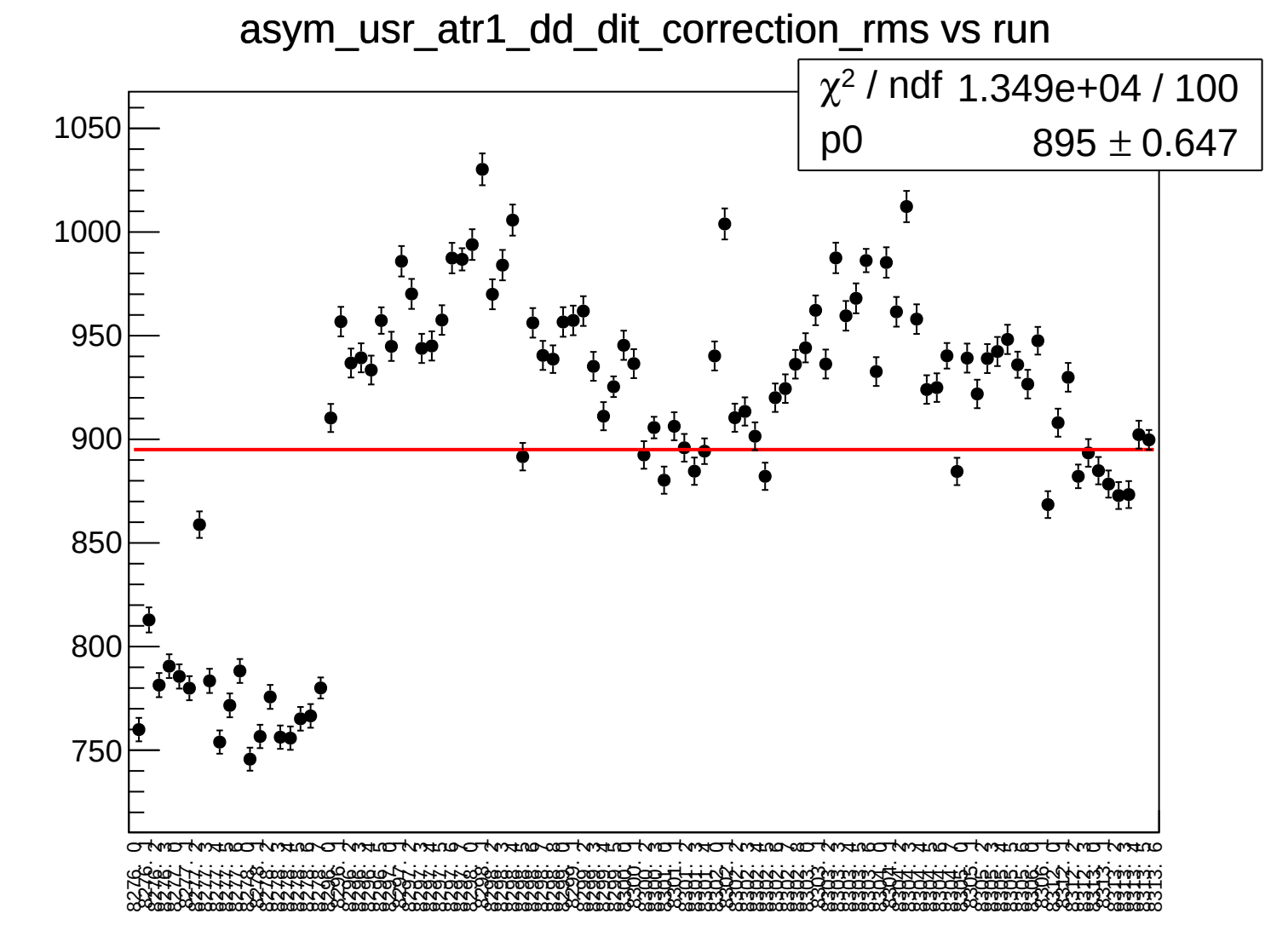

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 99.34 / 100
p0 1242 ± 1344
40000
20000
0
−20000
−40000
pull
Entries 101
Mean −201.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

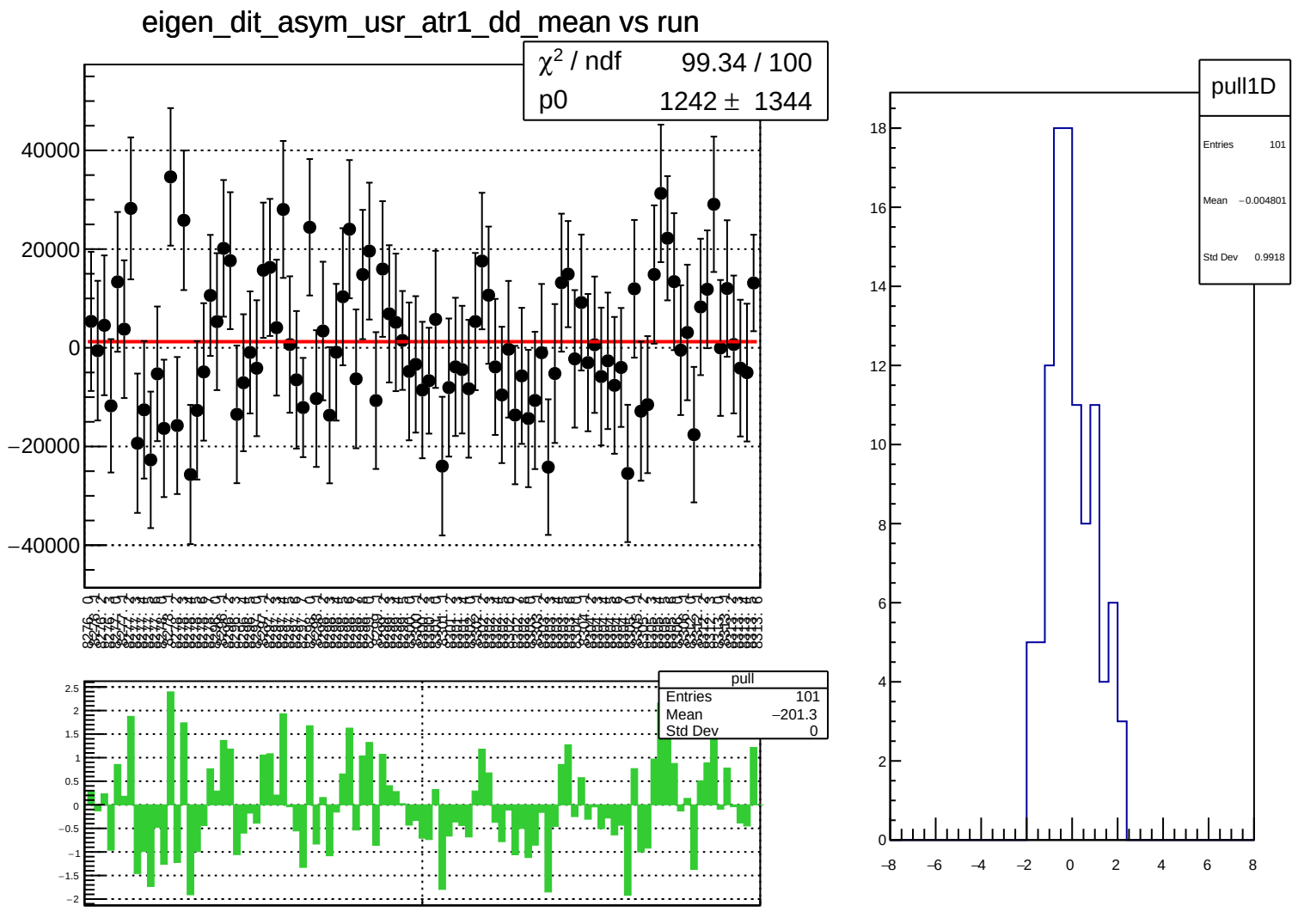

pull1D
Entries 101
Mean −0.004801
Std Dev 0.9918
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

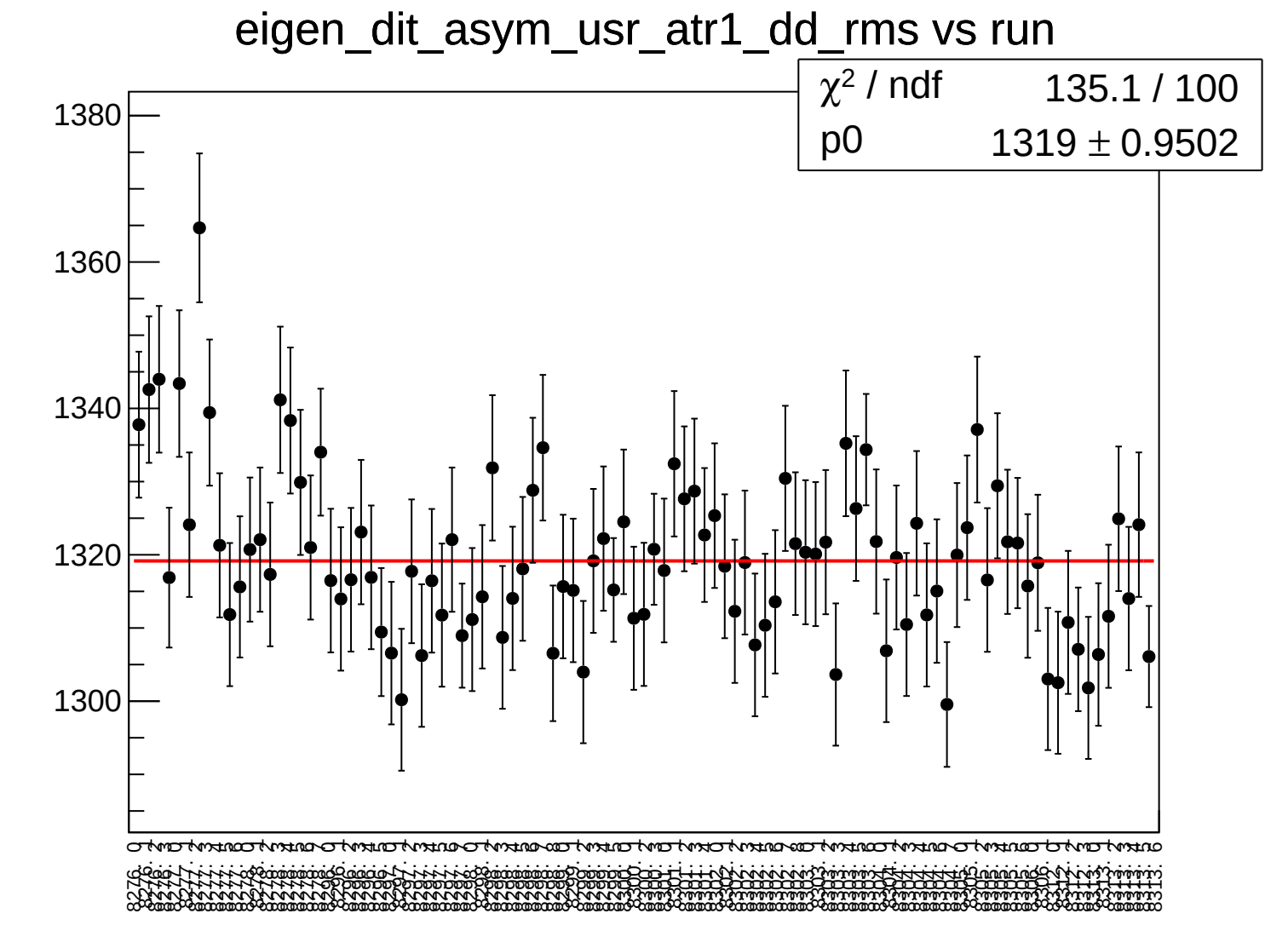

dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 135.1 / 100
p0 1319 ± 0.9502
1380
1360
1340
1320
1300

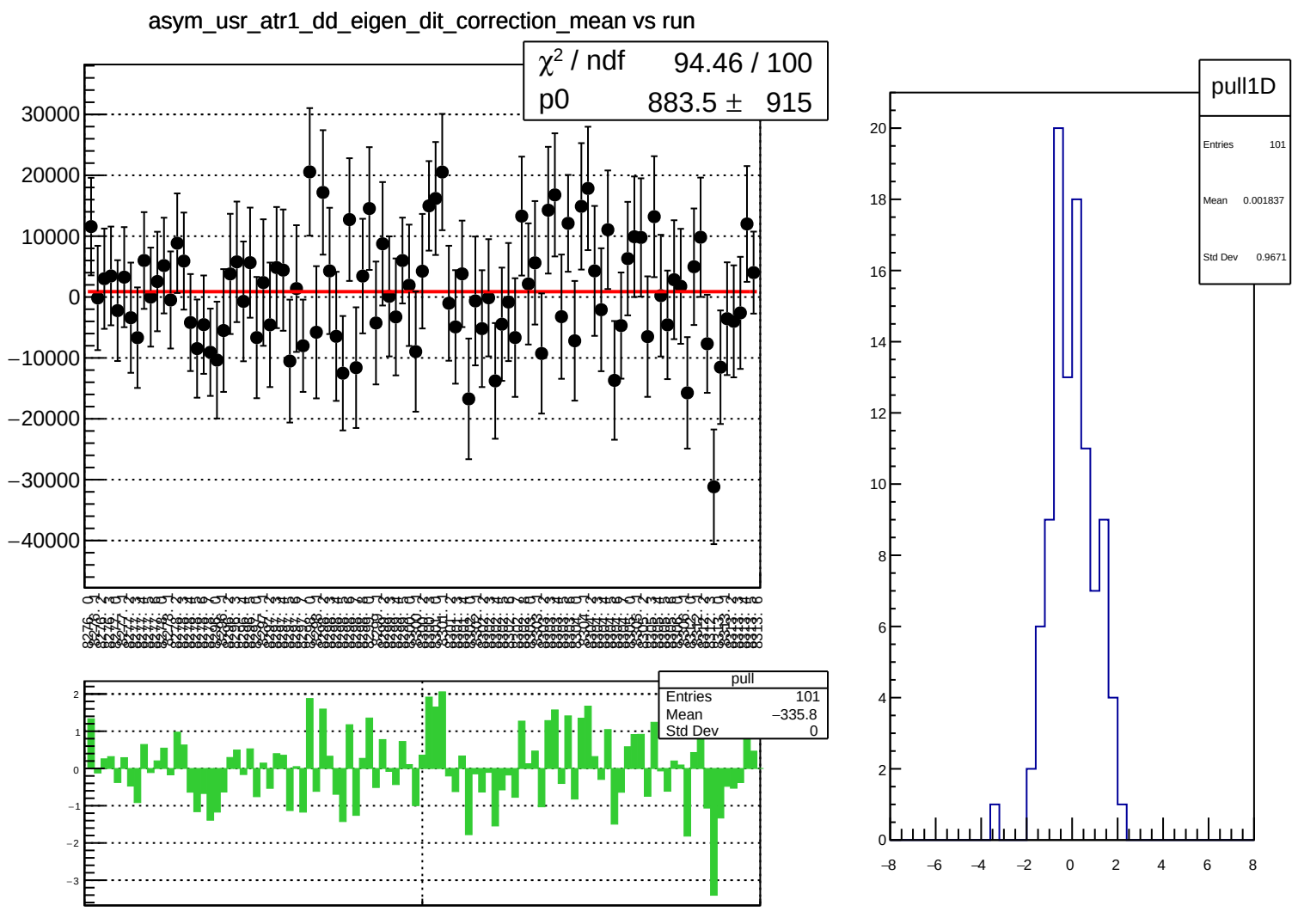

asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 94.46 / 100
p0 883.5 ± 915
pull
Entries 101
Mean −335.8
Std Dev 0

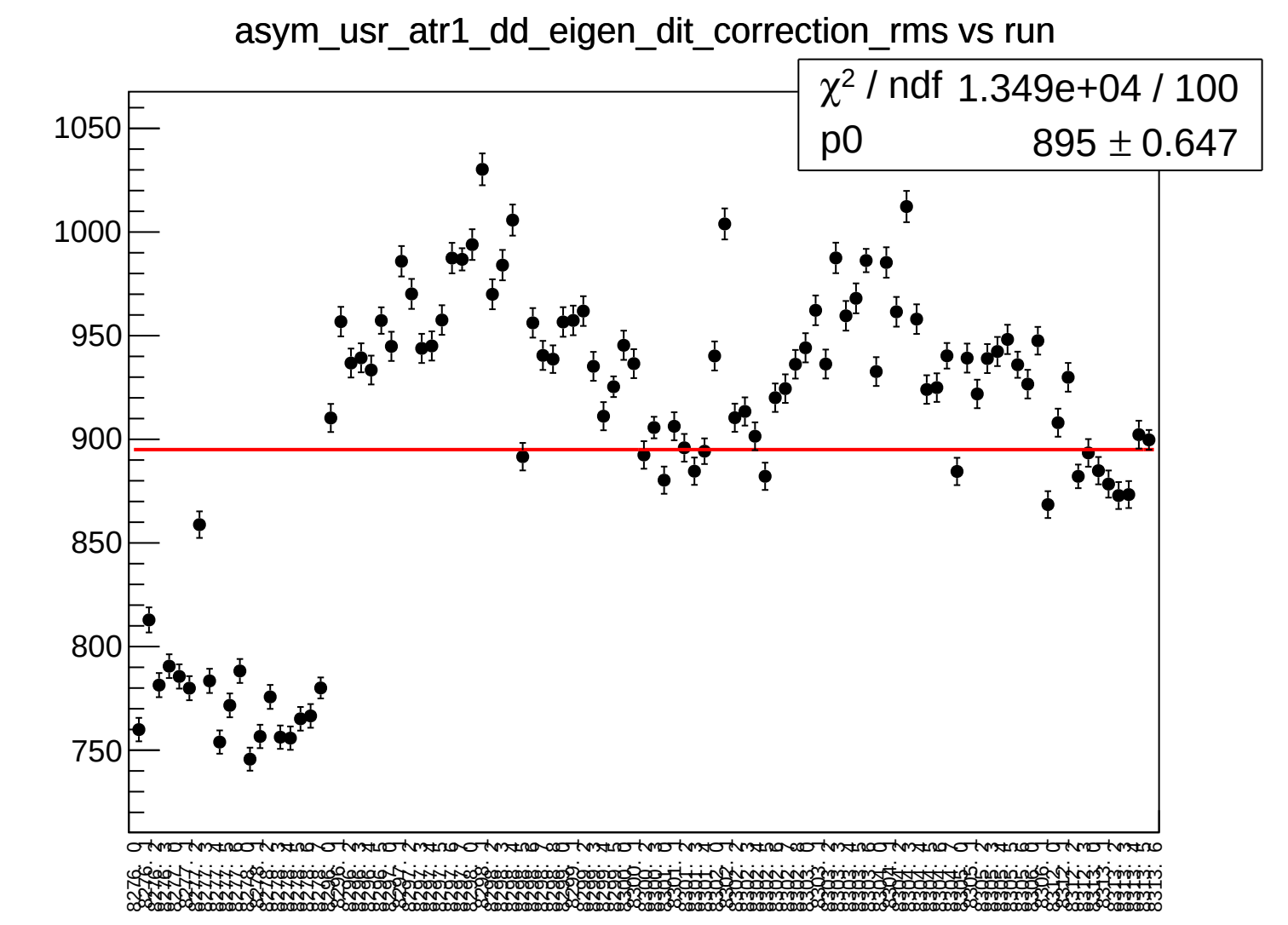

pull1D
Entries 101
Mean 0.001837
Std Dev 0.9671

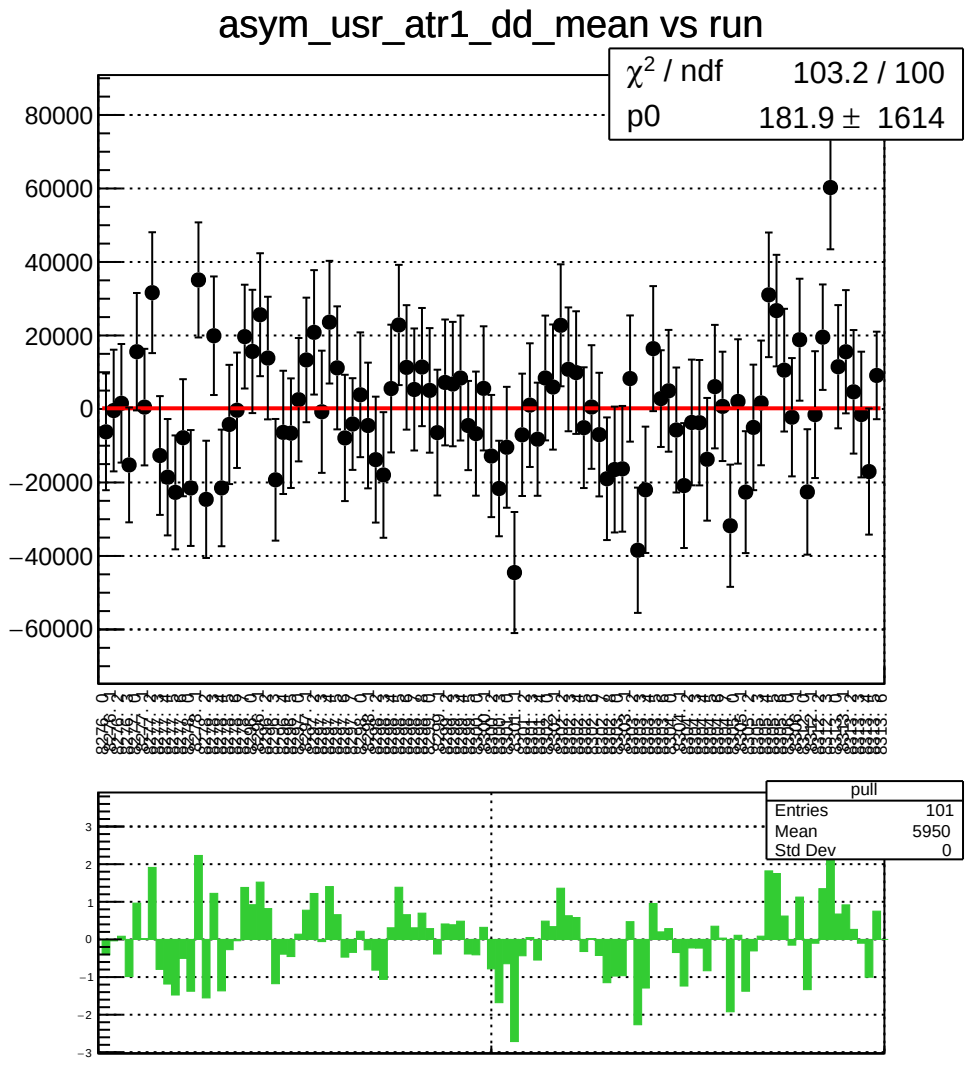

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 1.349e+04 / 100
p0 895 ± 0.647
1050
1000
950
900
850
800
750

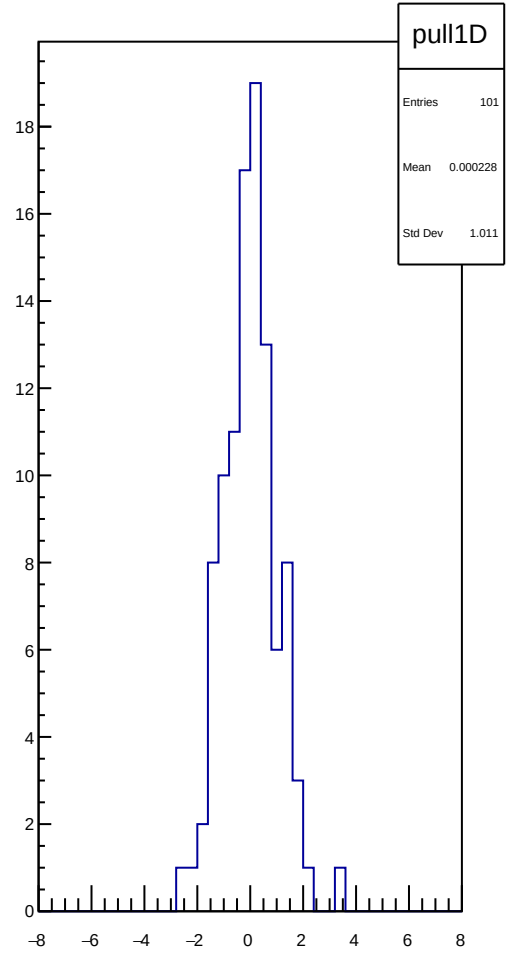

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 99.34 / 100
p0 1242 ± 1344
40000
20000
0
−20000
−40000
pull
Entries 101
Mean −201.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 101
Mean −0.004801
Std Dev 0.9918
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

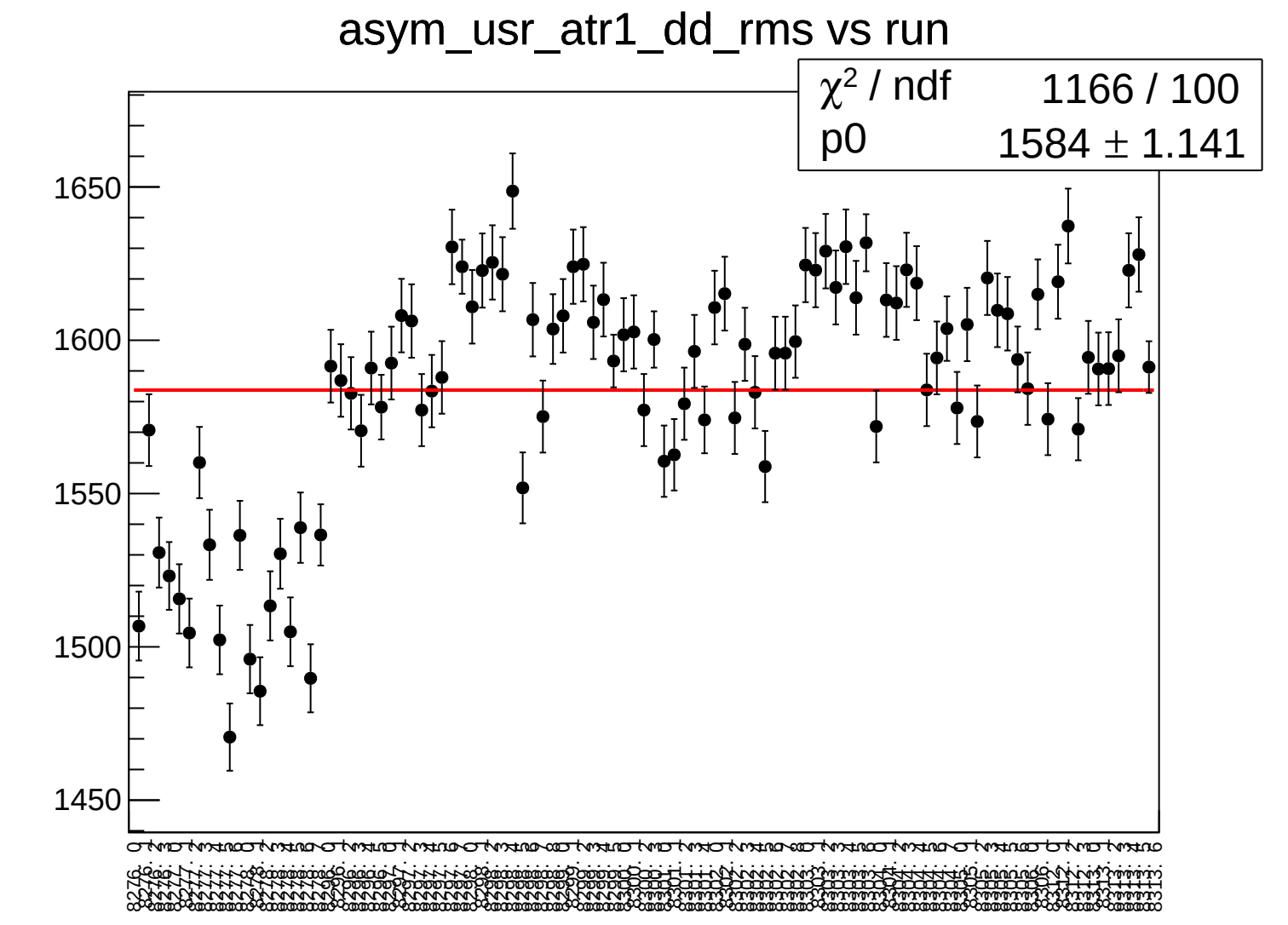

eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 135.1 / 100
p0 1319 ± 0.9502
1380
1360
1340
1320
1300

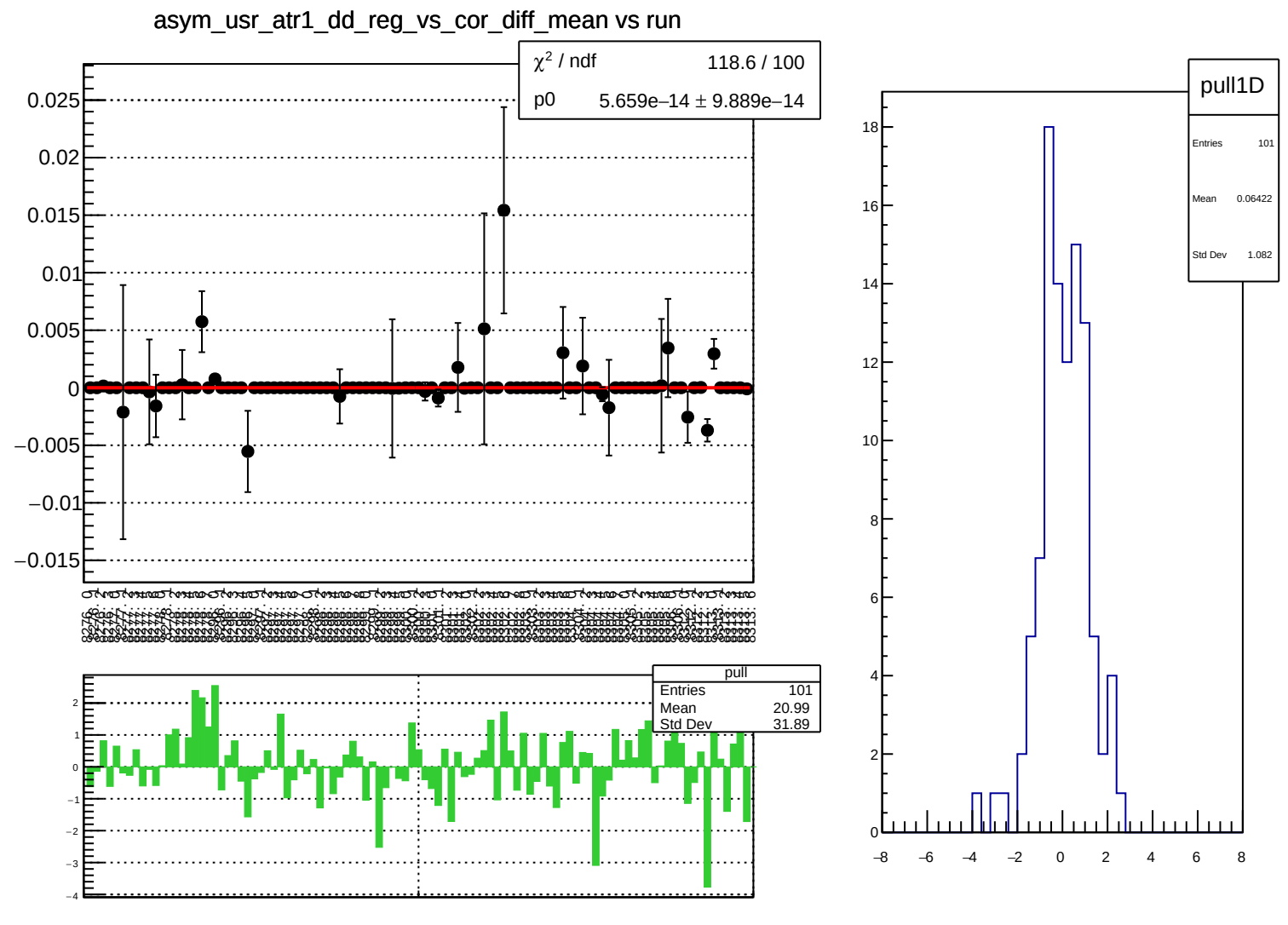

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 94.46 / 100
p0 883.5 ± 915
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 101
Mean −335.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.001837
Std Dev 0.9671
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

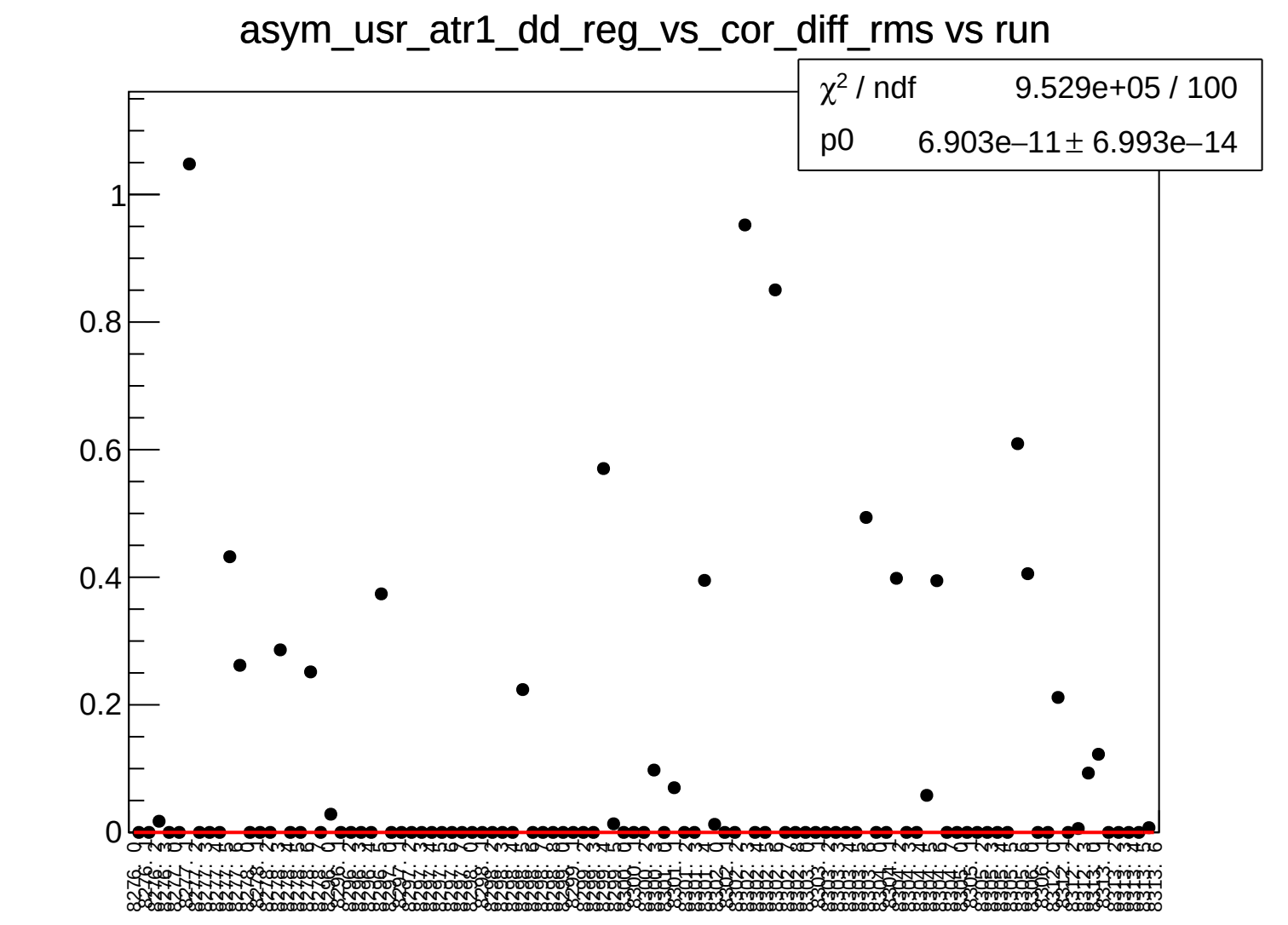

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.349e+04 / 100
p0 895 ± 0.647
1050
1000
950
900
850
800
750

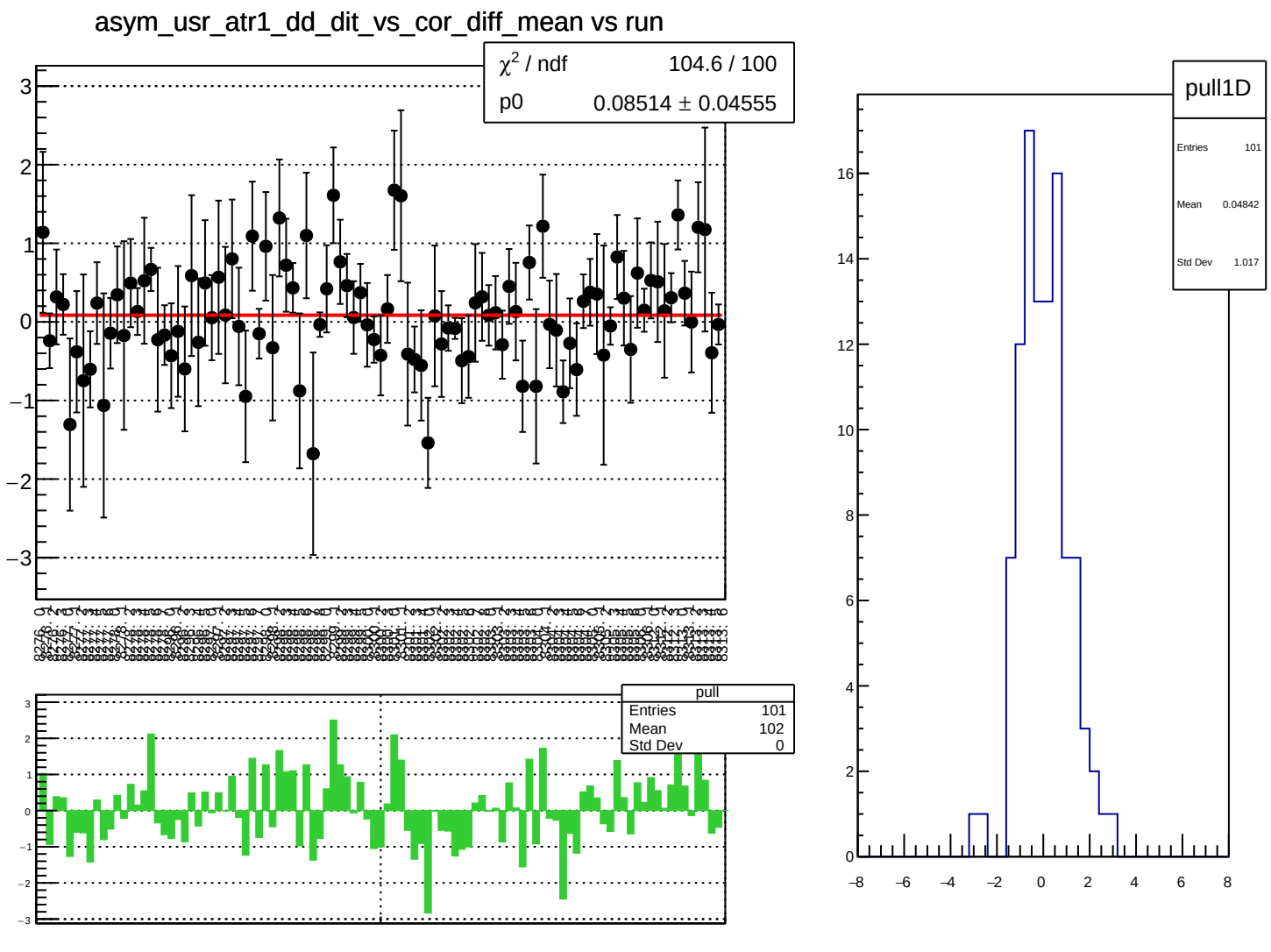

asym_usr_atr1_dd_mean vs run
χ² / ndf 103.2 / 100
p0 181.9 ± 1614
pull
Entries 101
Mean 5950
Std Dev 0

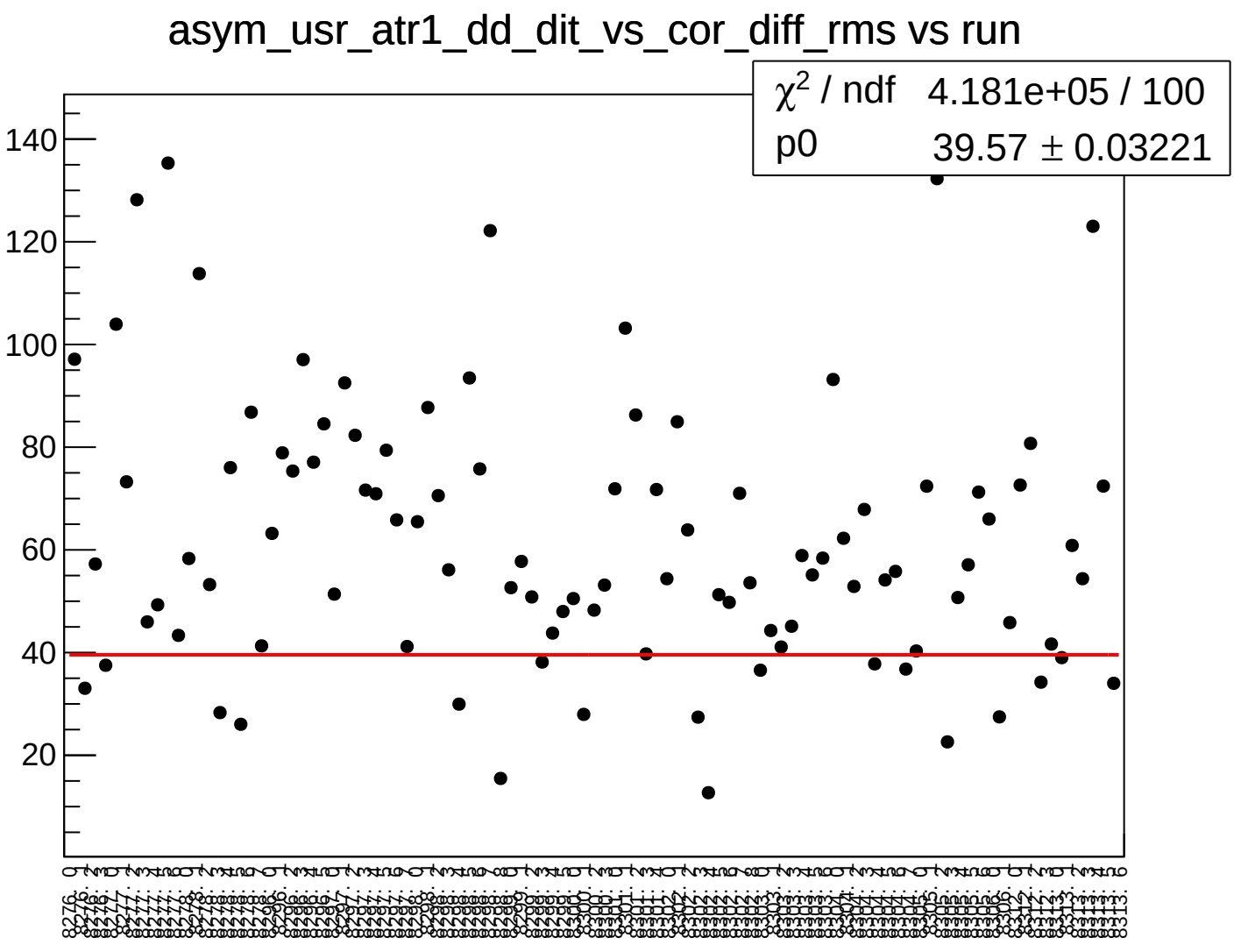

pull1D
Entries 101
Mean 0.000228
Std Dev 1.011

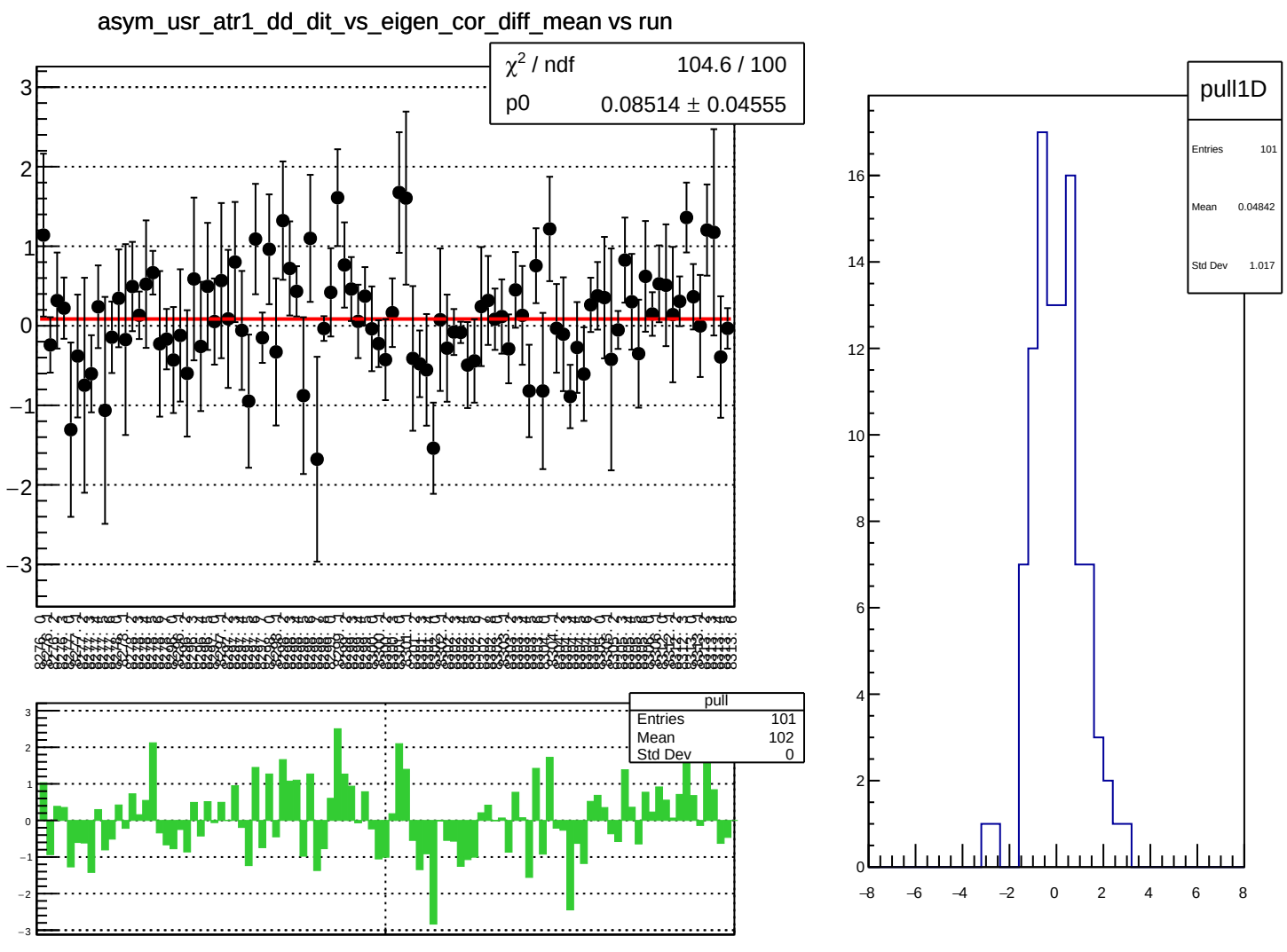

asym_usr_atr1_dd_rms vs run
χ² / ndf 1166 / 100
p0 1584 ± 1.141
1650
1600
1550
1500
1450

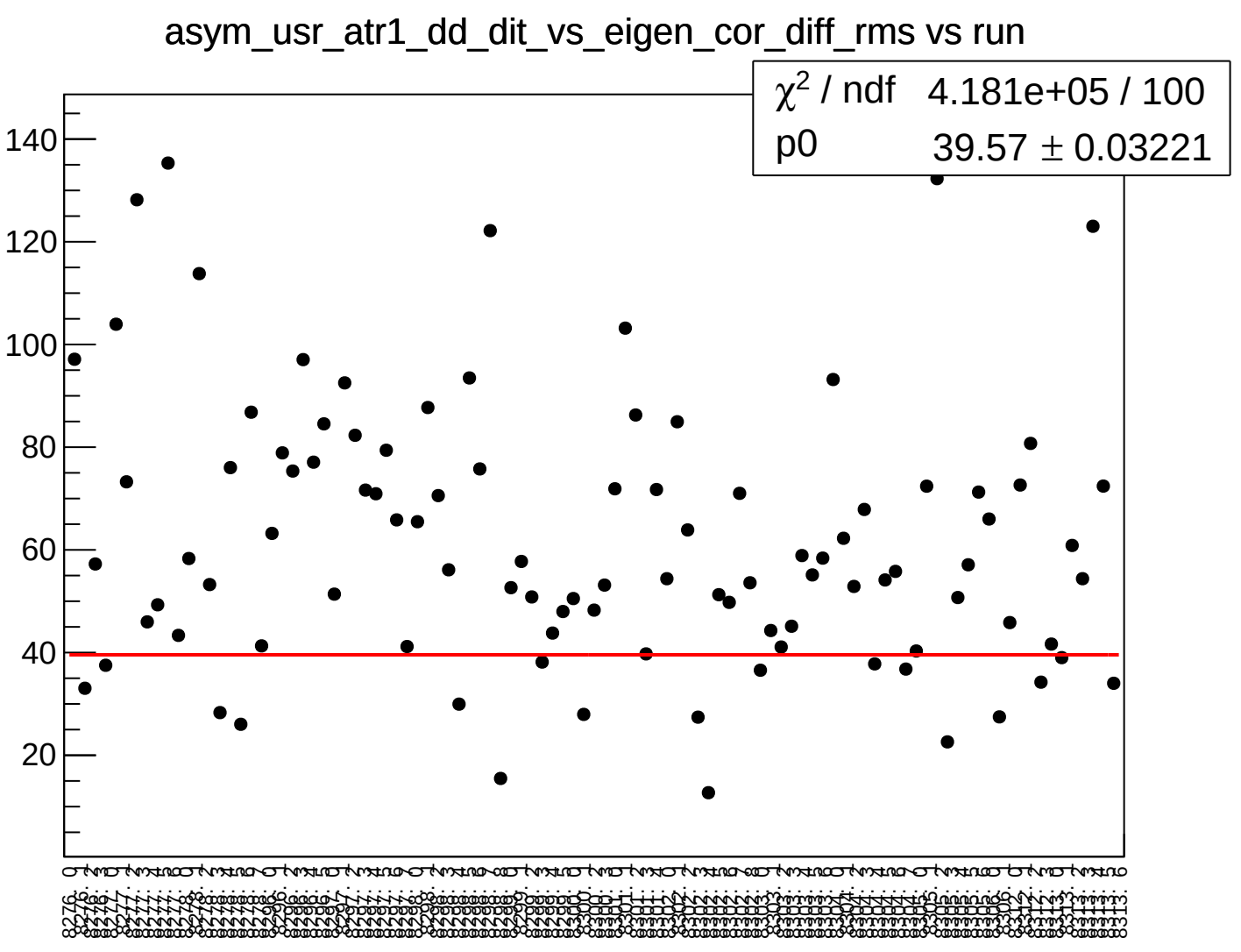

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 118.6 / 100
p0 5.659e−14 ± 9.889e−14
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 101
Mean 20.99
Std Dev 31.89
2
1
0
−1
−2
−3
−4
pull1D
Entries 101
Mean 0.06422
Std Dev 1.082
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

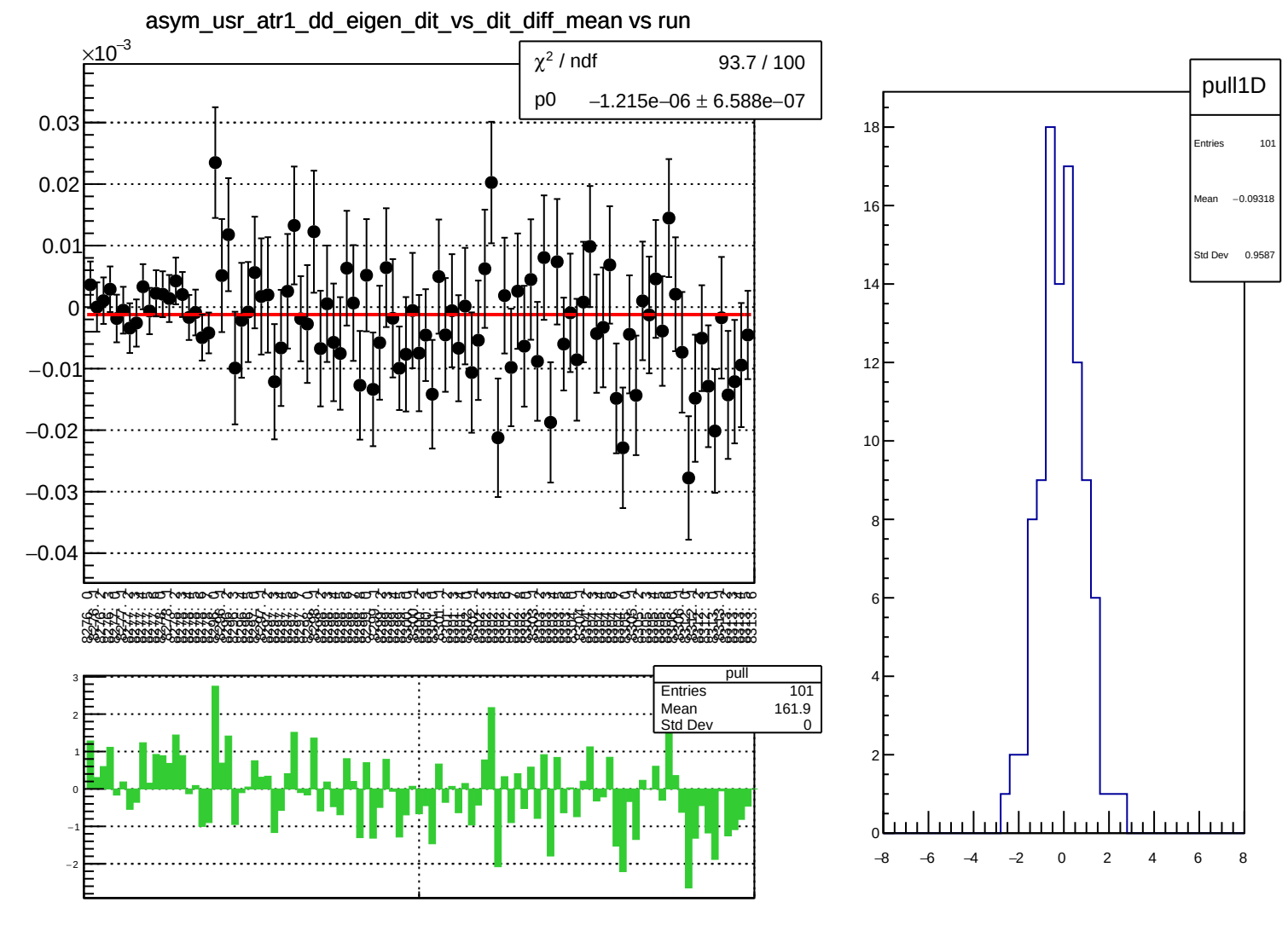

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.529e+05 / 100
p0 6.903e−11 ± 6.993e−14
1
0.8
0.6
0.4
0.2
0

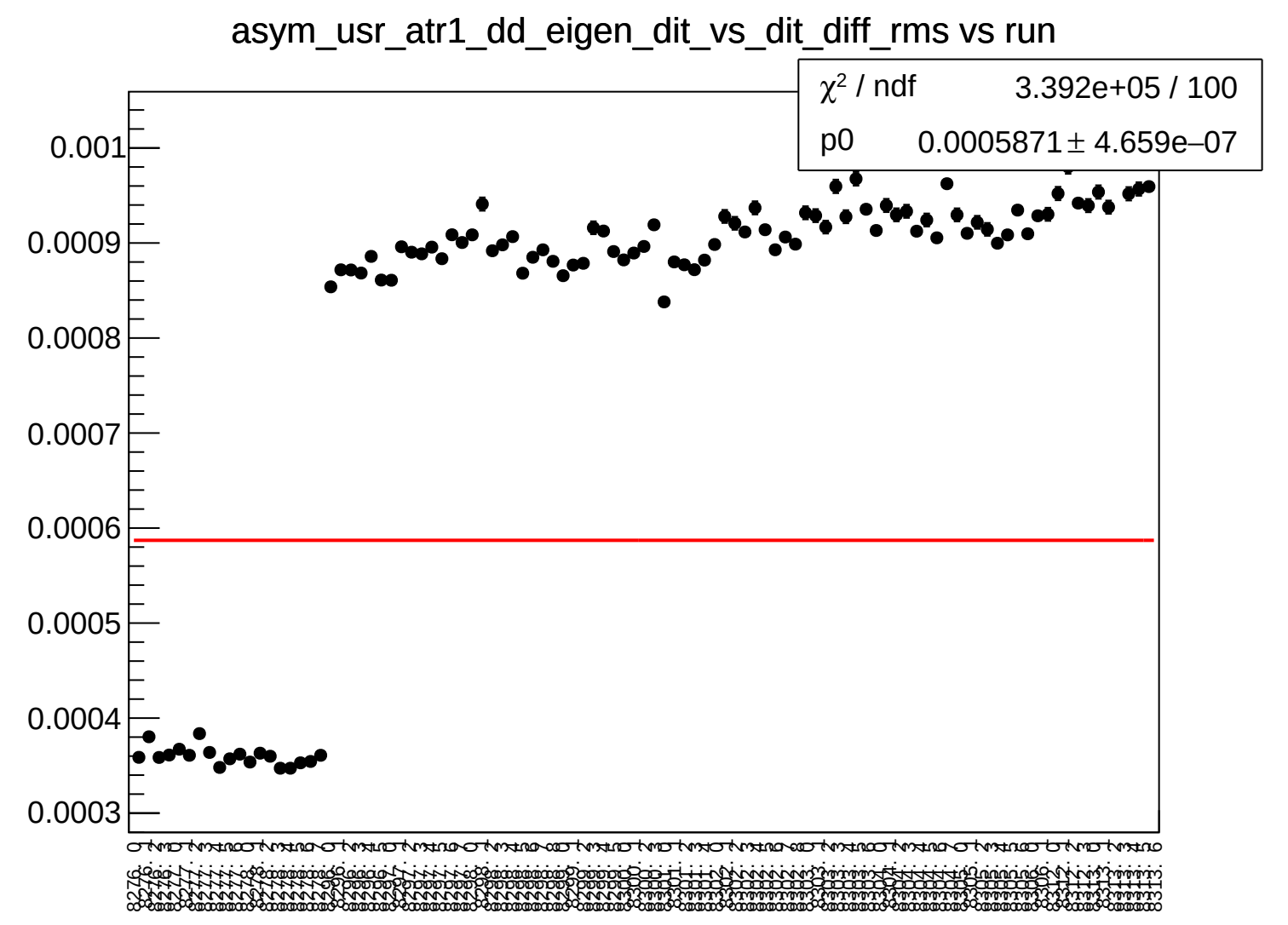

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 104.6 / 100
p0 0.08514 ± 0.04555
pull
Entries 101
Mean 102
Std Dev 0
pull1D
Entries 101
Mean 0.04842
Std Dev 1.017

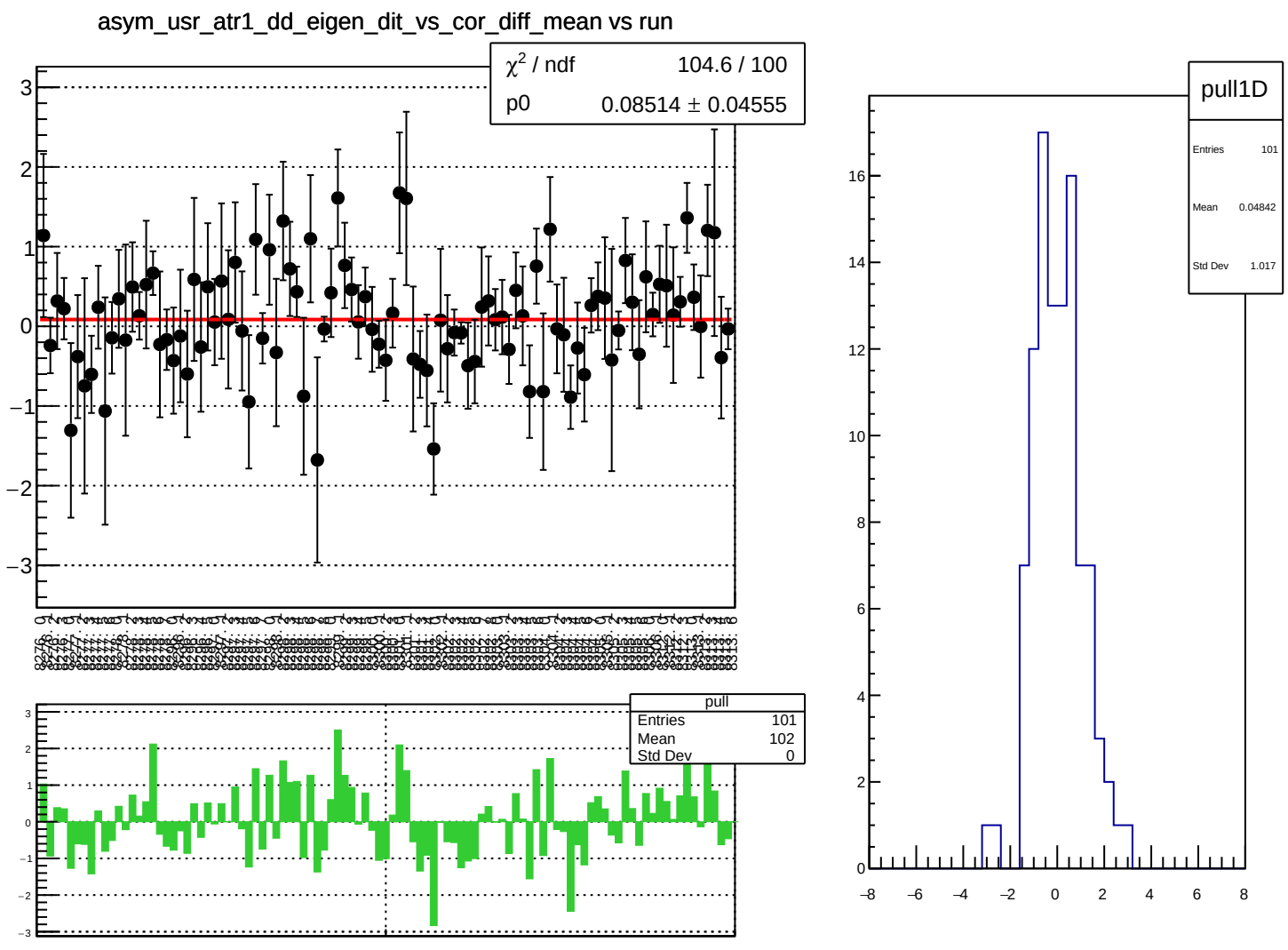

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.181e+05 / 100
p0 39.57 ± 0.03221
140
120
100
80
60
40
20

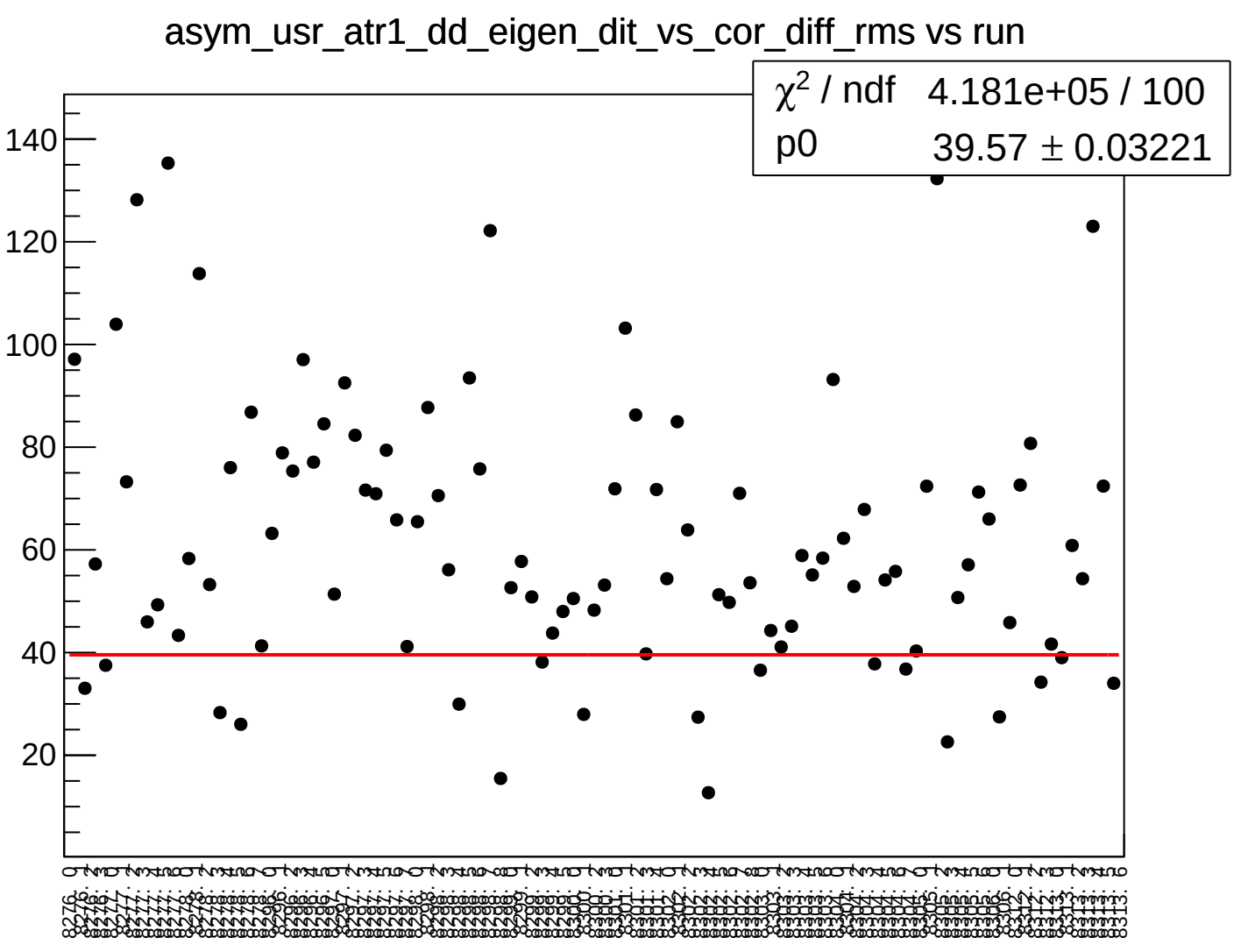

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.6 / 100
p0 0.08514 ± 0.04555
pull
Entries 101
Mean 102
Std Dev 0
pull1D
Entries 101
Mean 0.04842
Std Dev 1.017

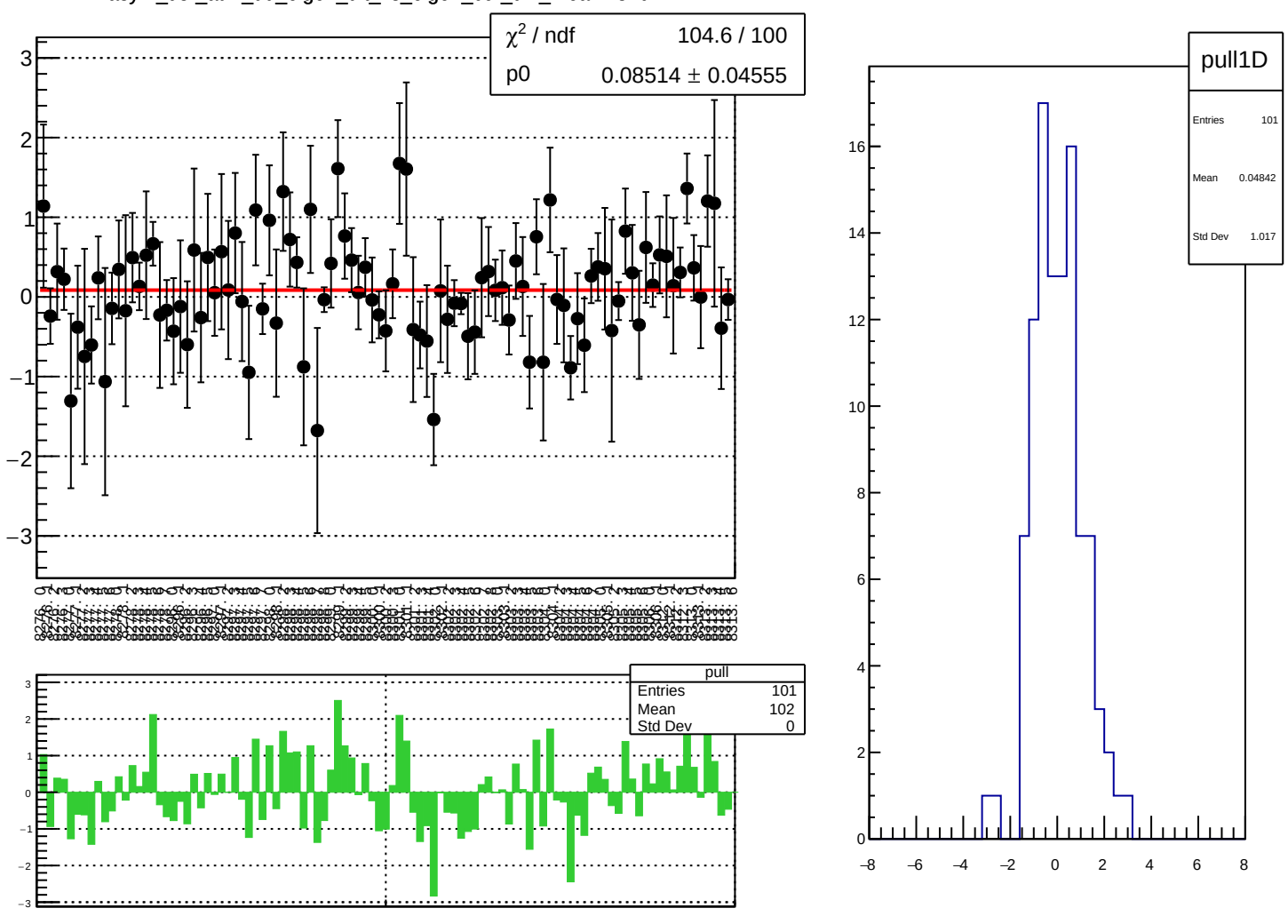

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.181e+05 / 100
p0 39.57 ± 0.03221
140
120
100
80
60
40
20

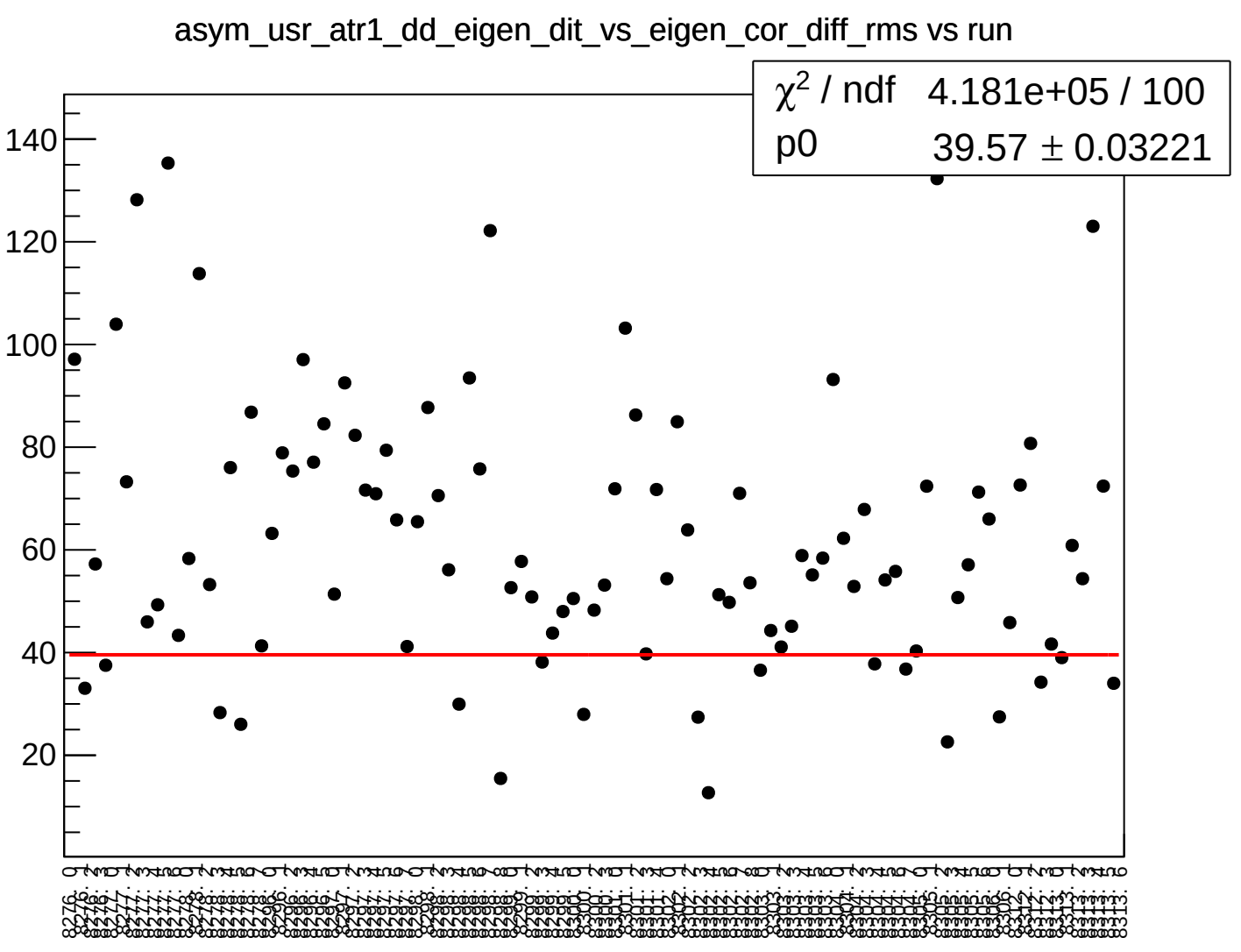

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.7 / 100
p0 −1.215e−06 ± 6.588e−07
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 101
Mean 161.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.09318
Std Dev 0.9587
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

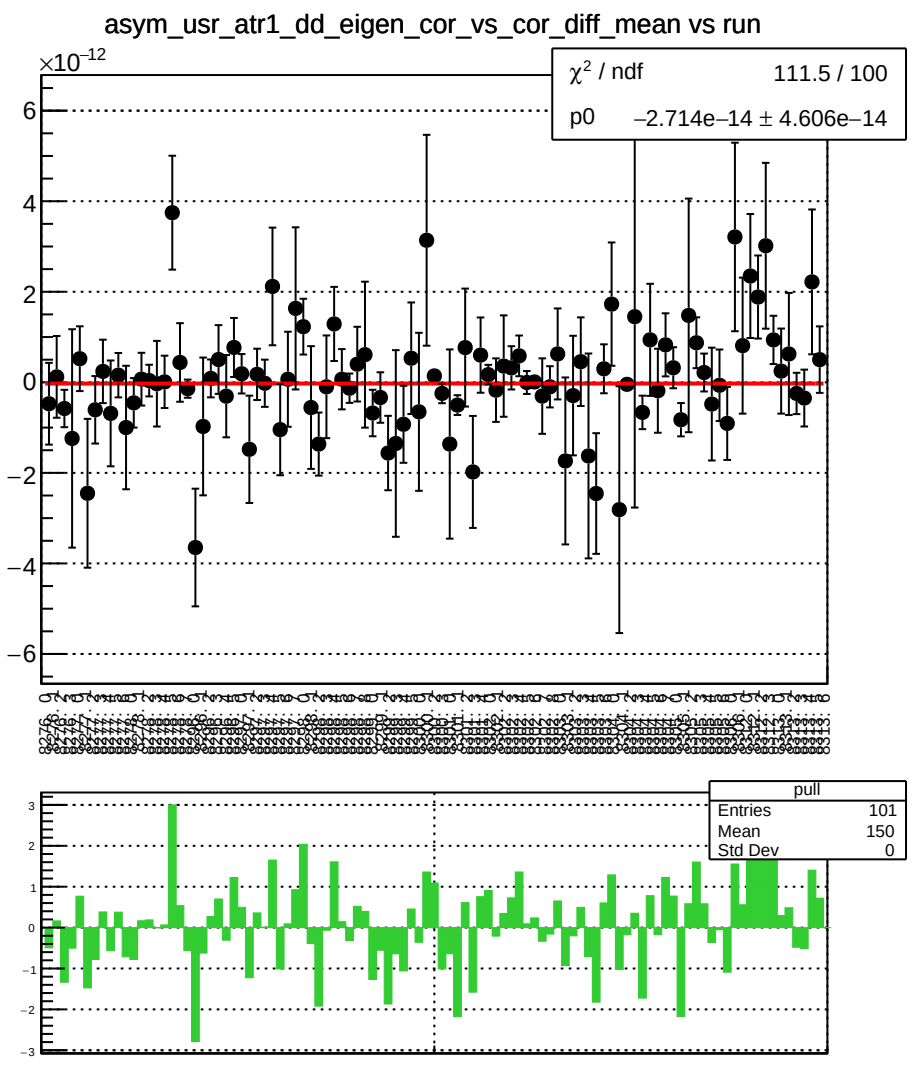

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.392e+05 / 100
p0 0.0005871 ± 4.659e−07
0.001
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003

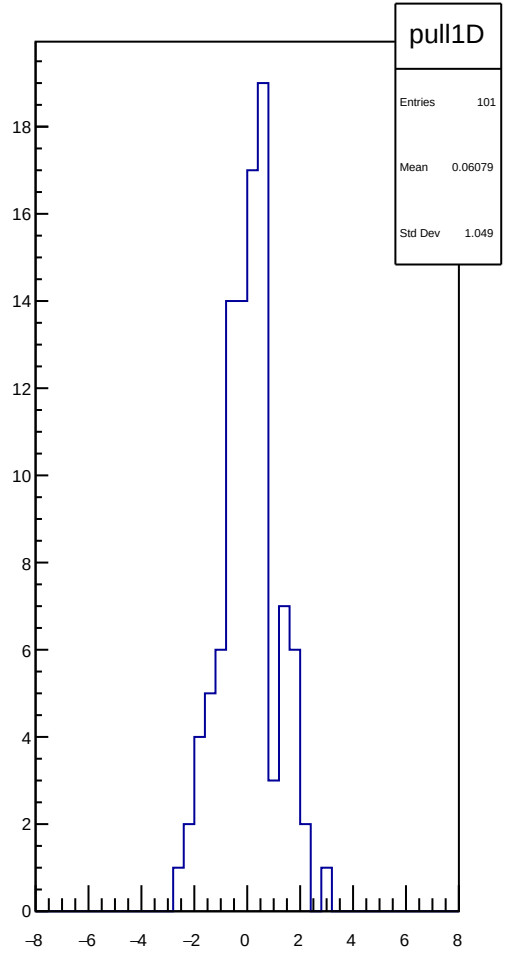

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.6 / 100
p0 0.08514 ± 0.04555
pull
Entries 101
Mean 102
Std Dev 0
pull1D
Entries 101
Mean 0.04842
Std Dev 1.017

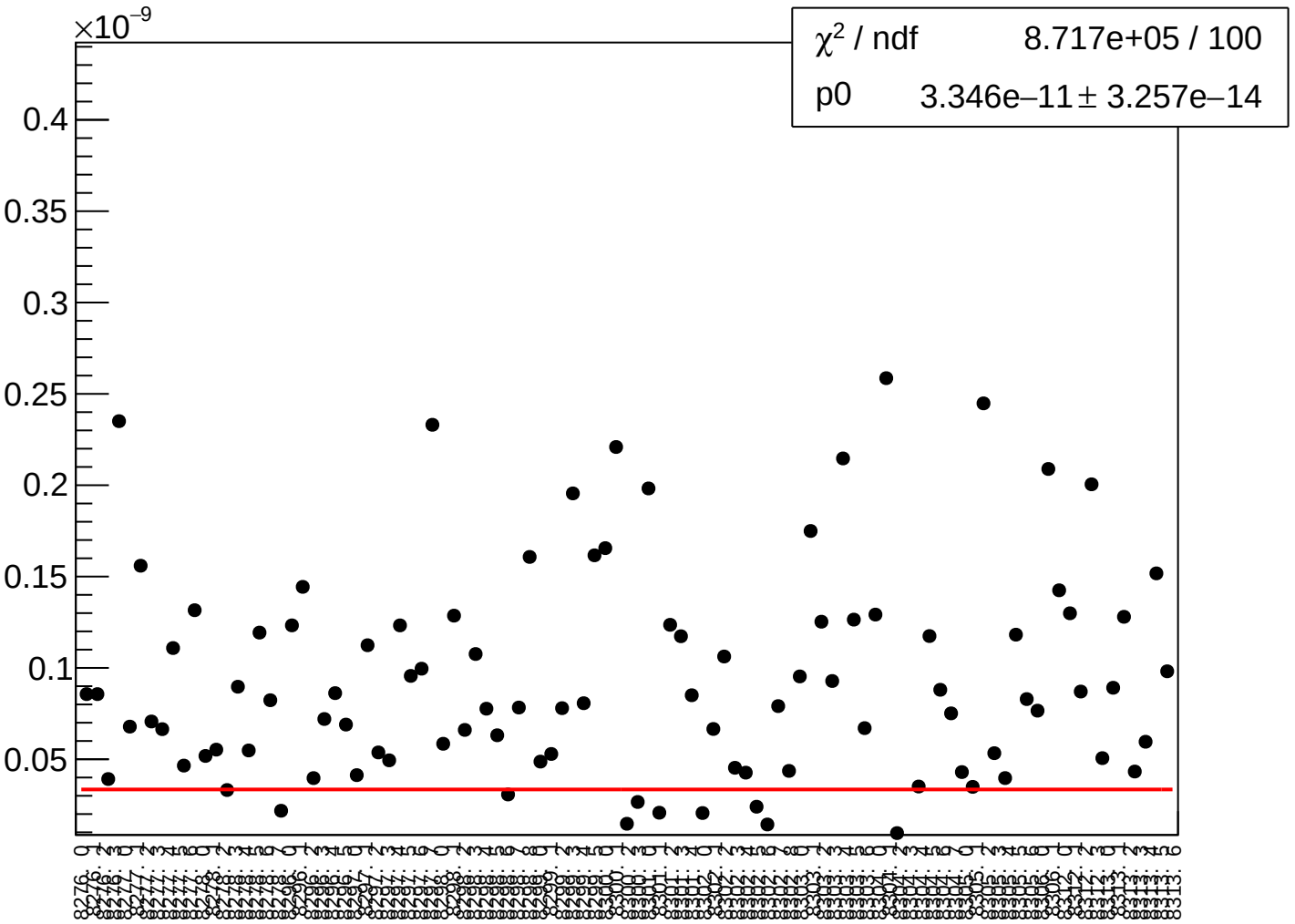

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.181e+05 / 100
p0 39.57 ± 0.03221
140
120
100
80
60
40
20

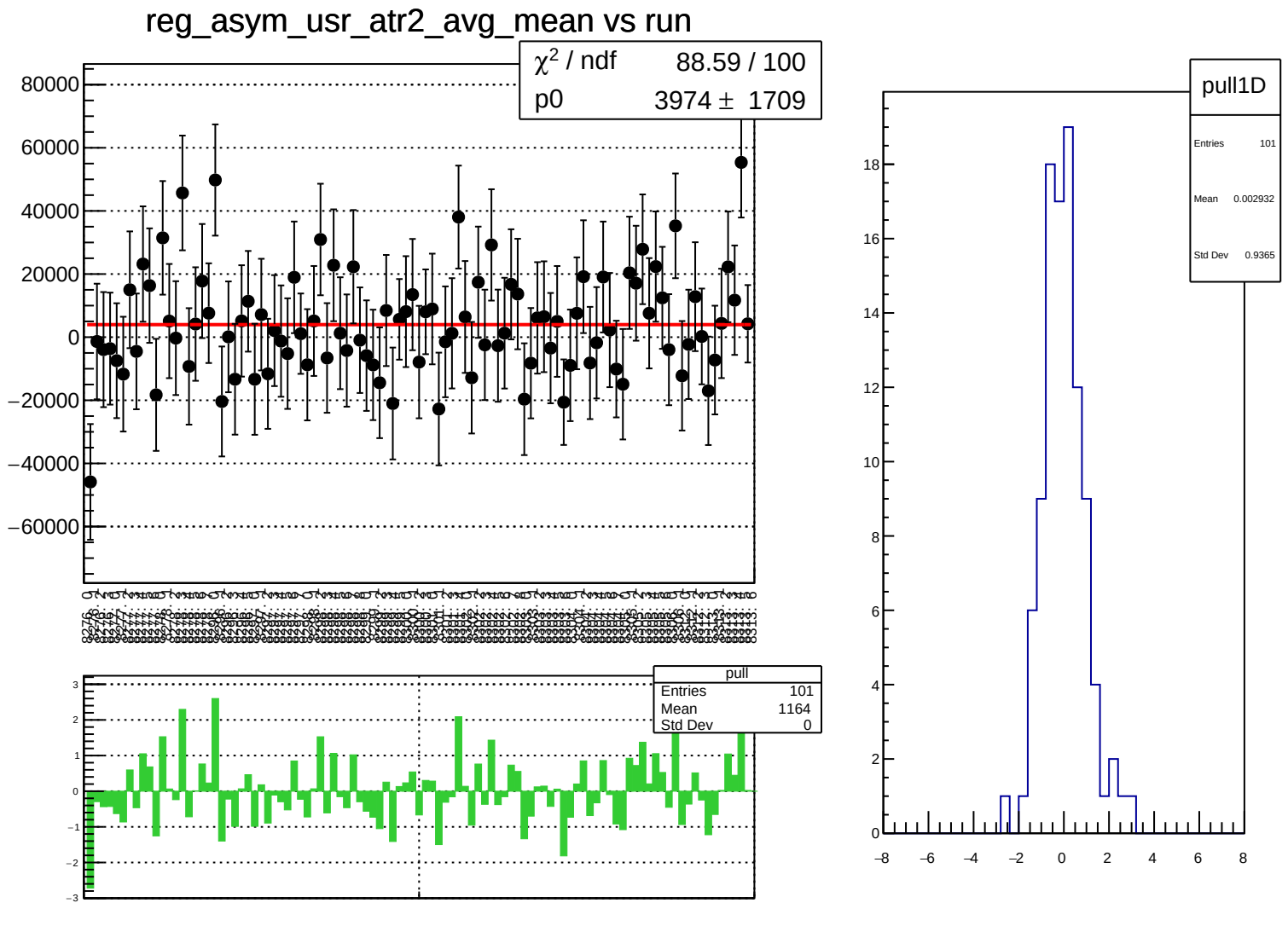

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.6 / 100
p0 0.08514 ± 0.04555
pull
Entries 101
Mean 102
Std Dev 0
pull1D
Entries 101
Mean 0.04842
Std Dev 1.017

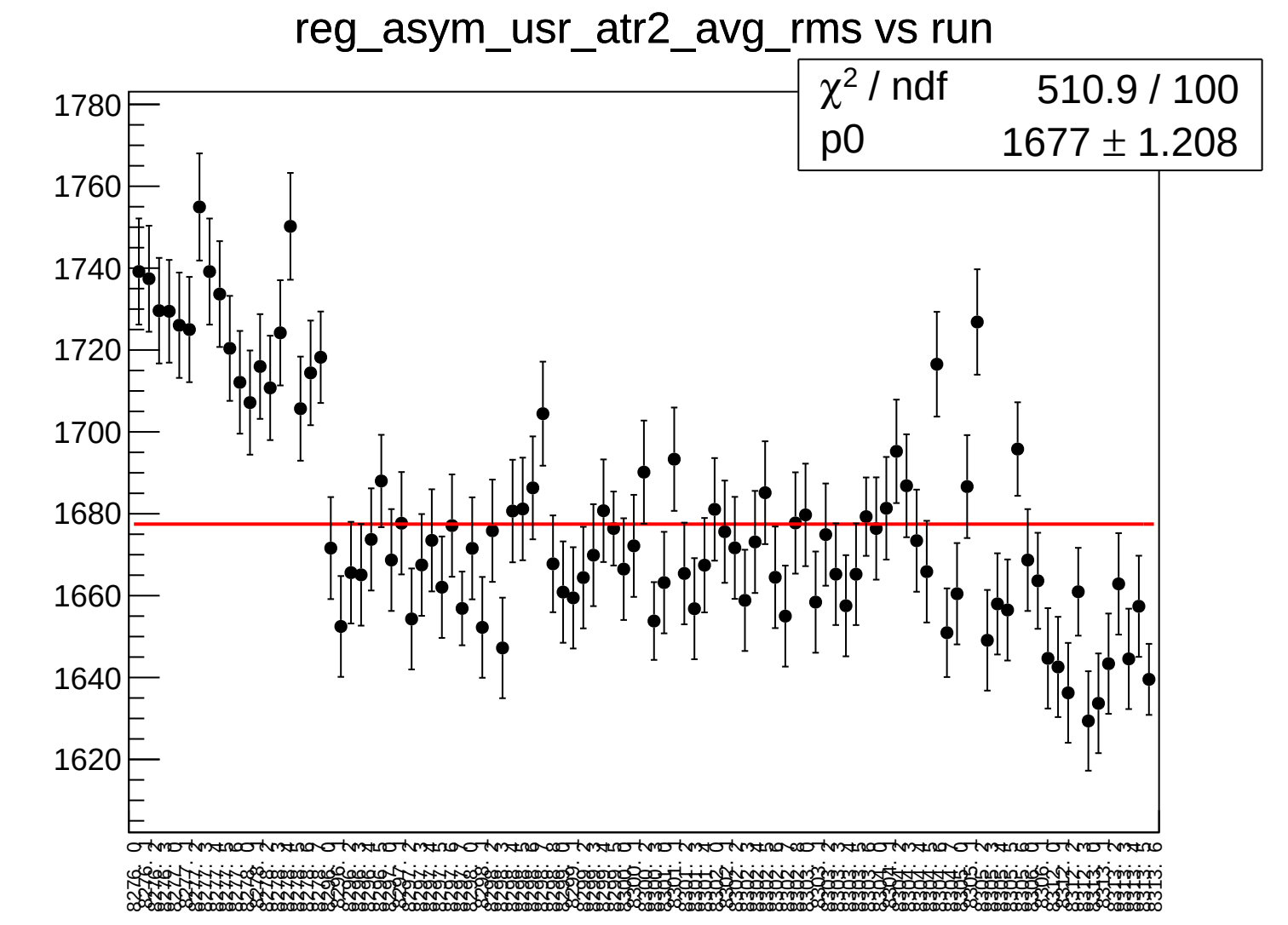

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.181e+05 / 100
p0 39.57 ± 0.03221
140
120
100
80
60
40
20

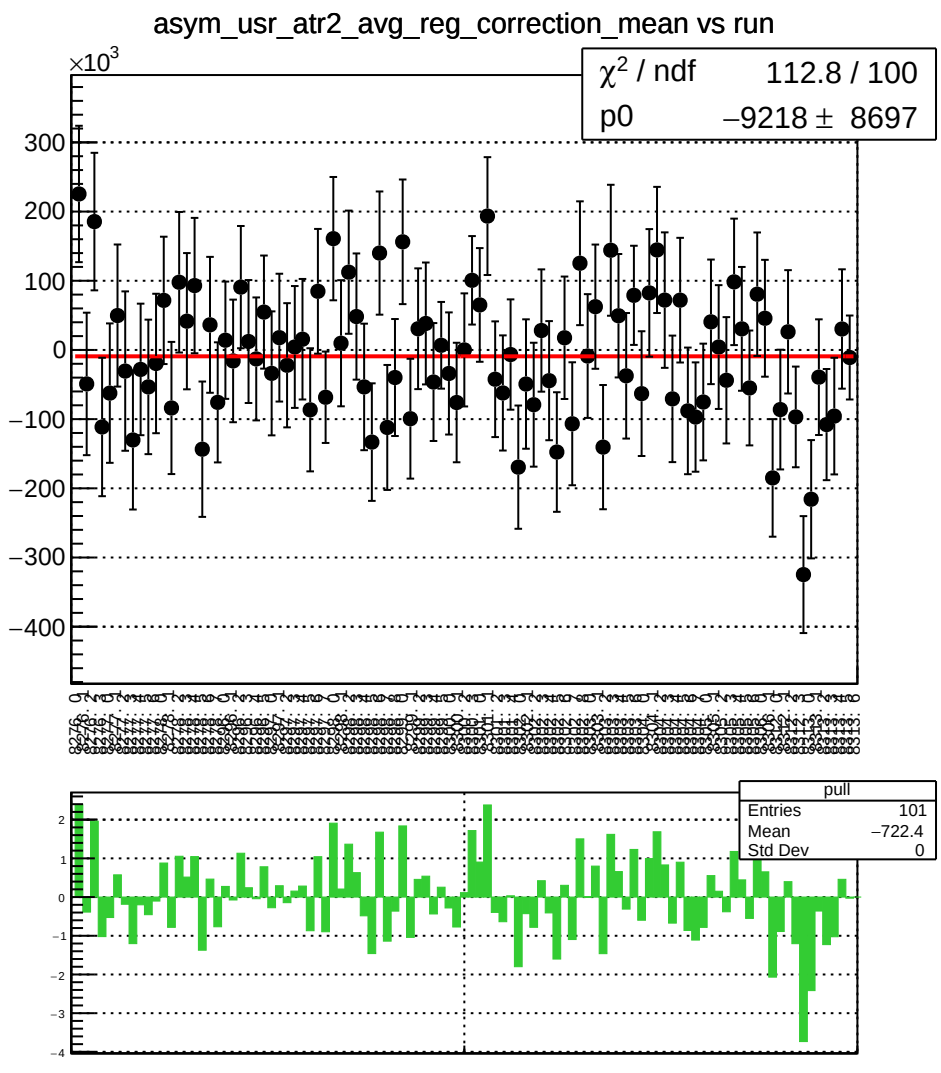

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 111.5 / 100
p0 −2.714e−14 ± 4.606e−14
pull
Entries 101
Mean 150
Std Dev 0

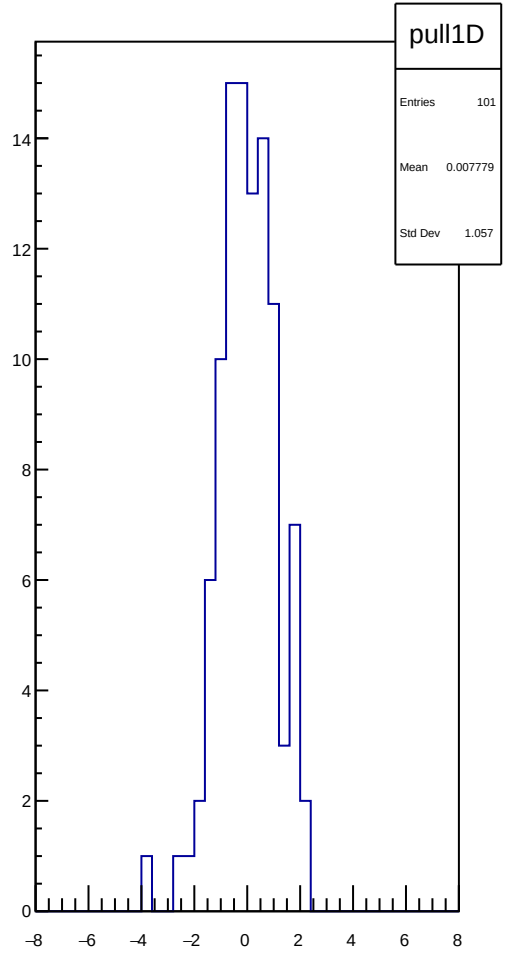

pull1D
Entries 101
Mean 0.06079
Std Dev 1.049

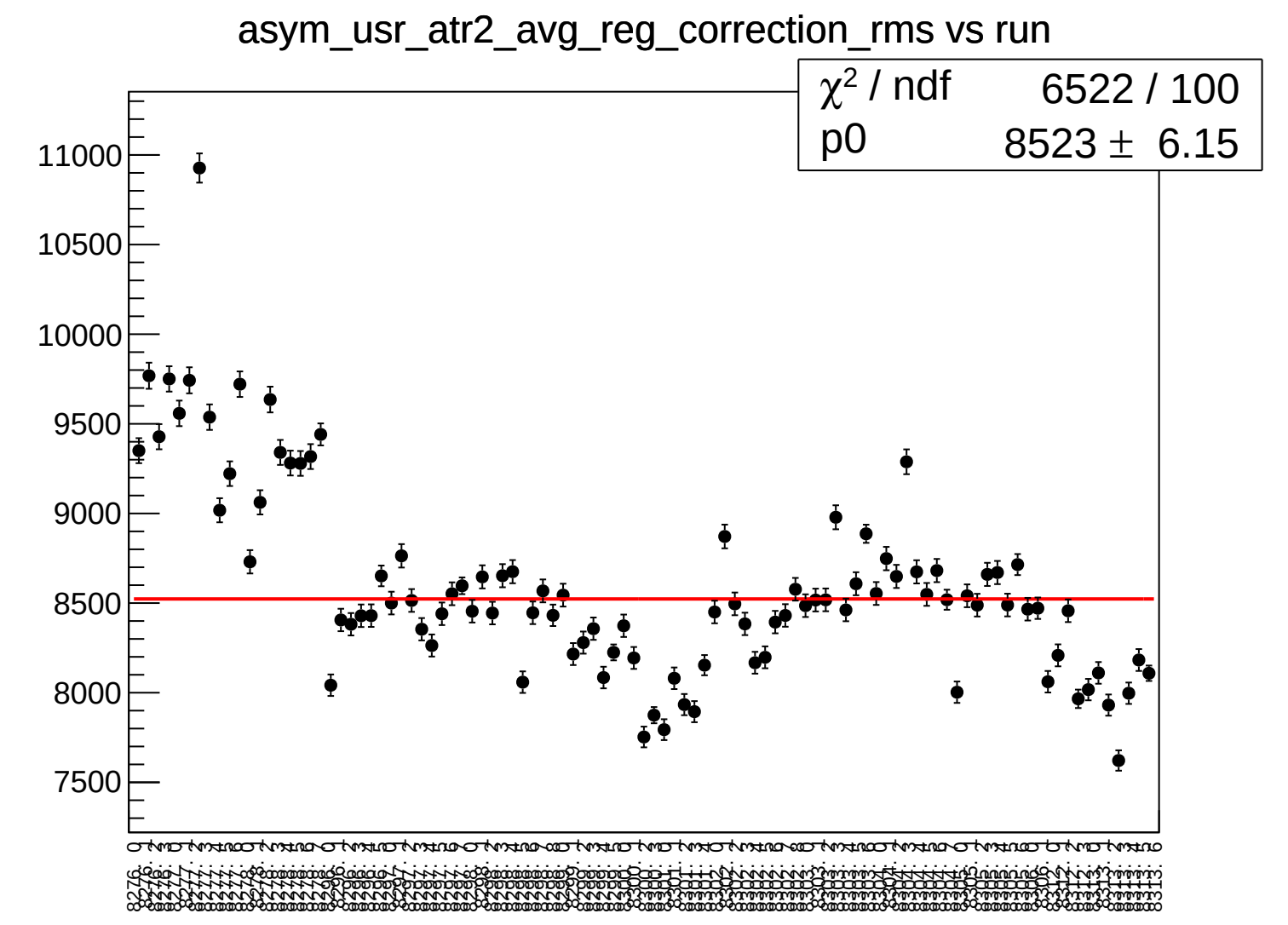

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.717e+05 / 100
p0 3.346e−11 ± 3.257e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

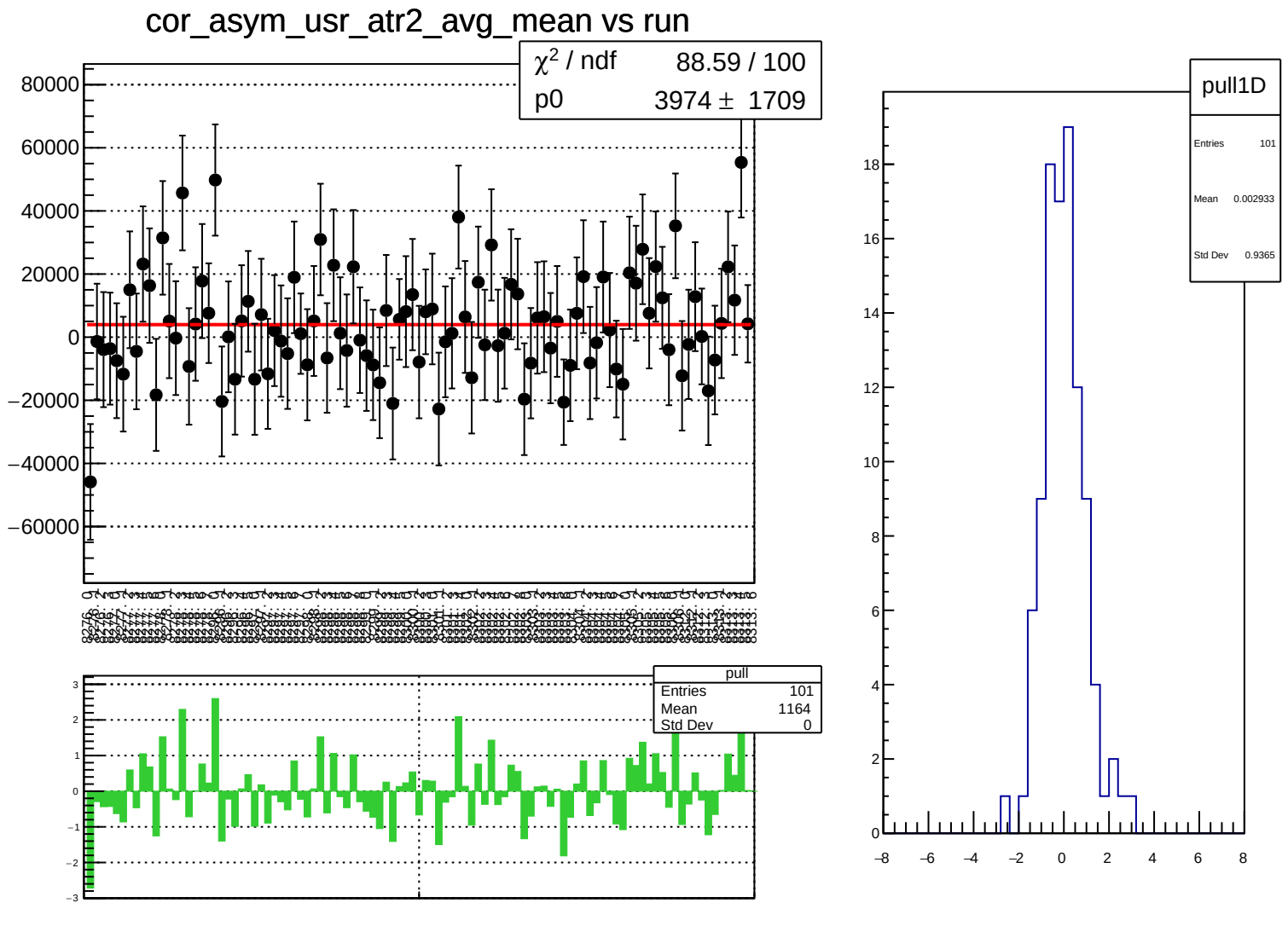

reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 88.59 / 100
p0 3974 ± 1709
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean 1164
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.002932
Std Dev 0.9365
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

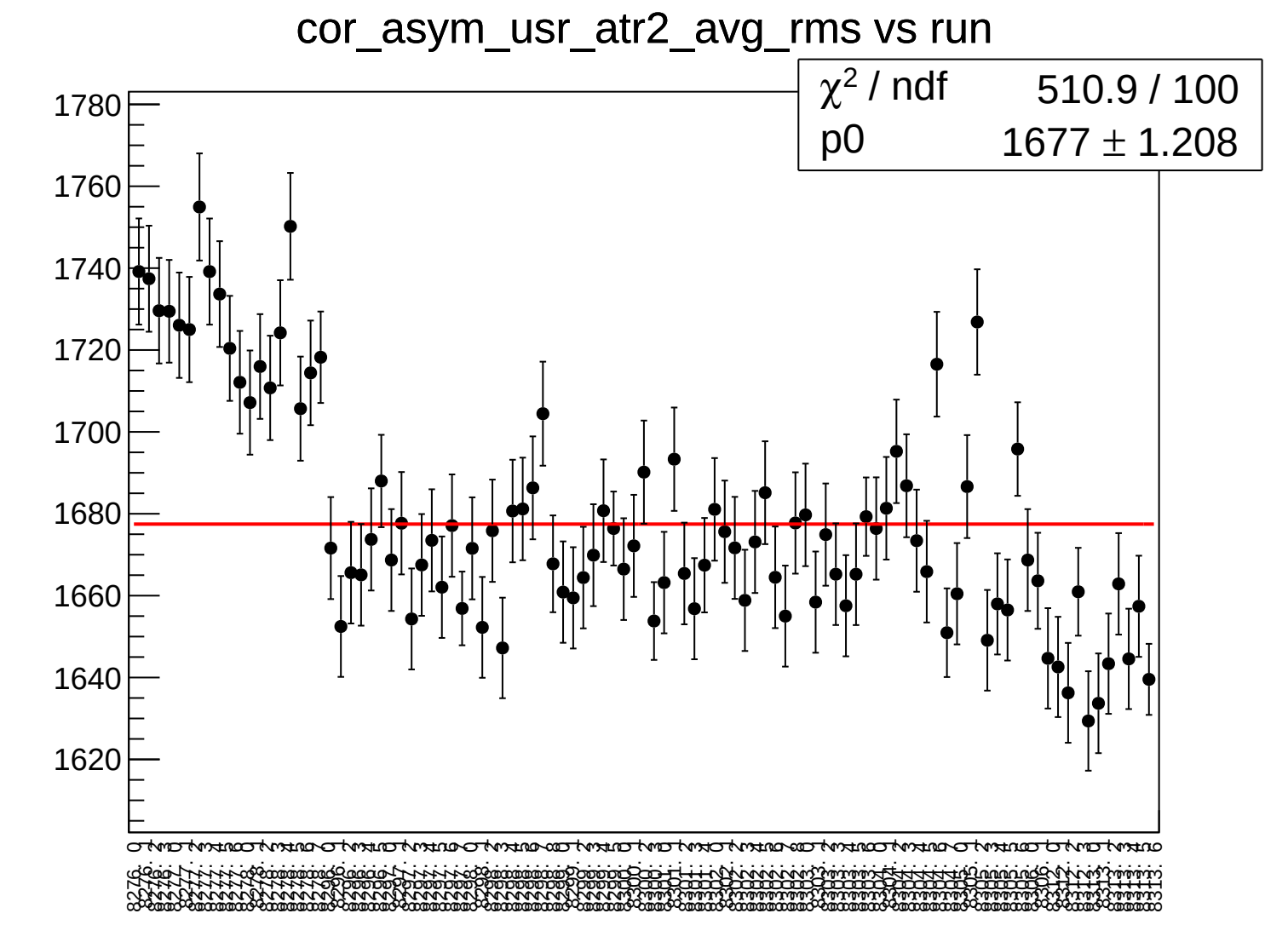

reg_asym_usr_atr2_avg_rms vs run
χ² / ndf 510.9 / 100
p0 1677 ± 1.208
1780
1760
1740
1720
1700
1680
1660
1640
1620

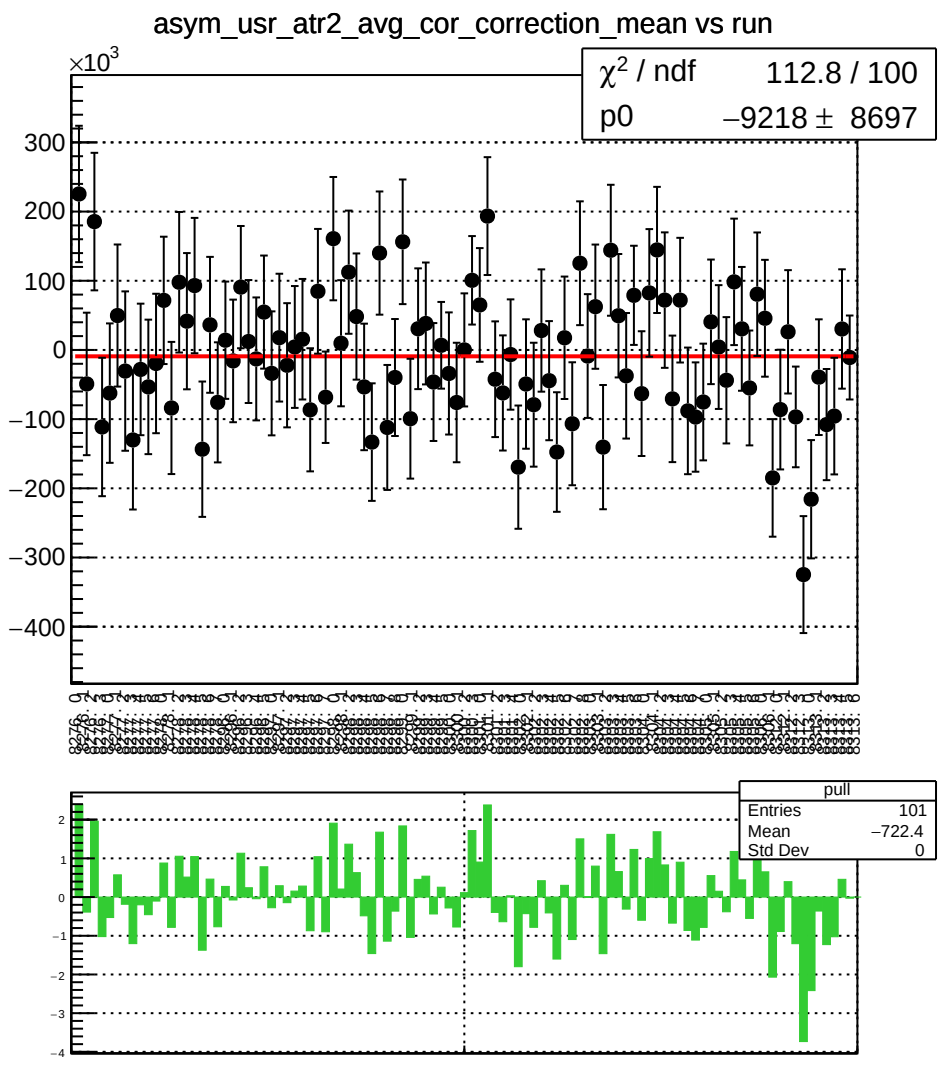

asym_usr_atr2_avg_reg_correction_mean vs run
χ² / ndf 112.8 / 100
p0 −9218 ± 8697
×10³
300
200
100
0
−100
−200
−300
−400
pull
Entries 101
Mean −722.4
Std Dev 0
2
1
0
−1
−2
−3
−4

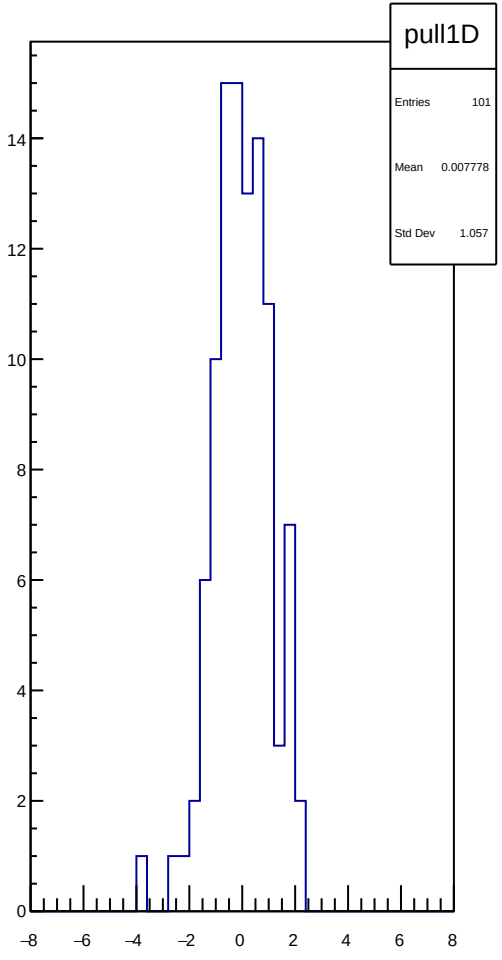

pull1D
Entries 101
Mean 0.007779
Std Dev 1.057
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

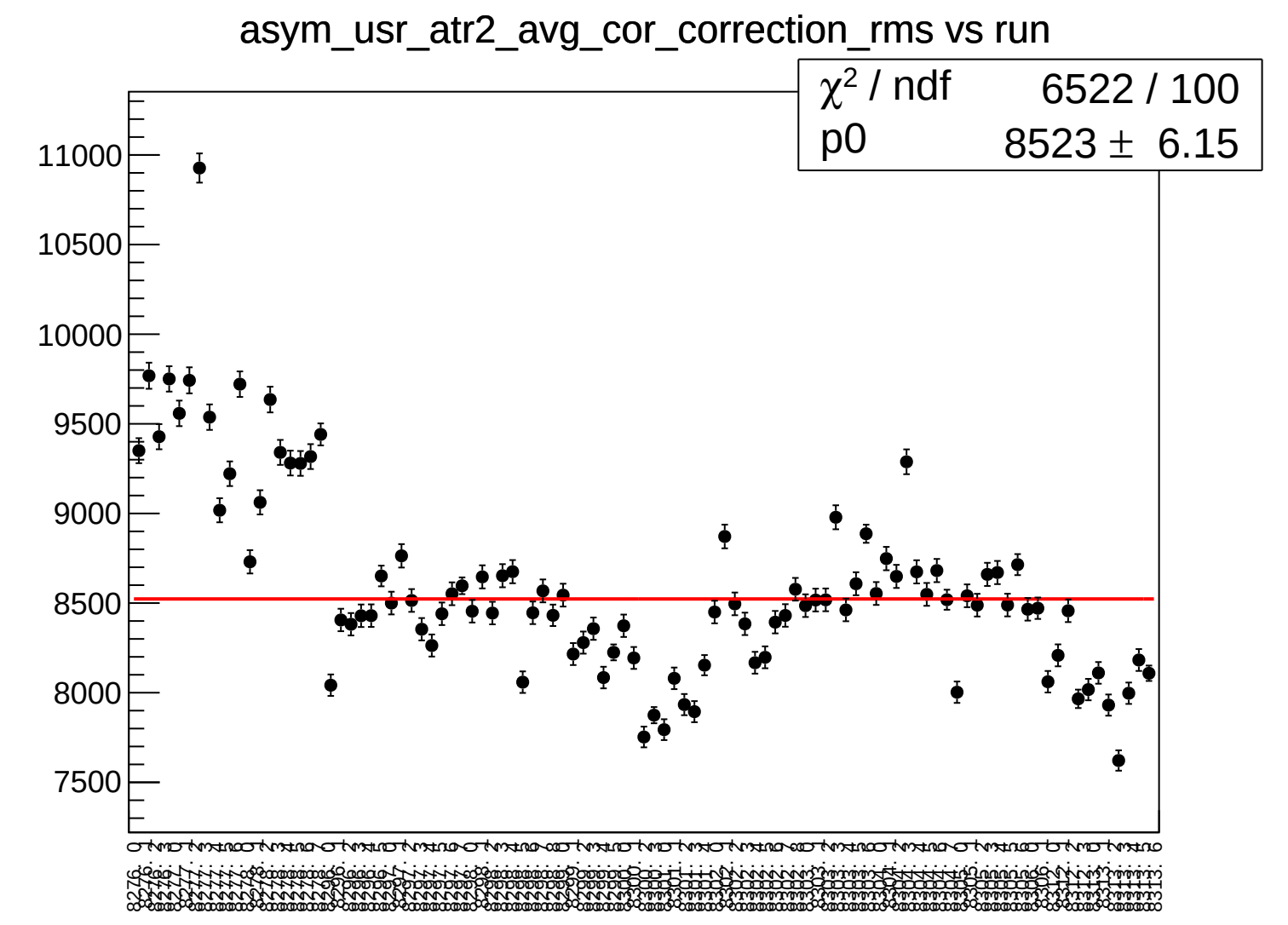

asym_usr_atr2_avg_reg_correction_rms vs run
χ² / ndf 6522 / 100
p0 8523 ± 6.15
11000
10500
10000
9500
9000
8500
8000
7500

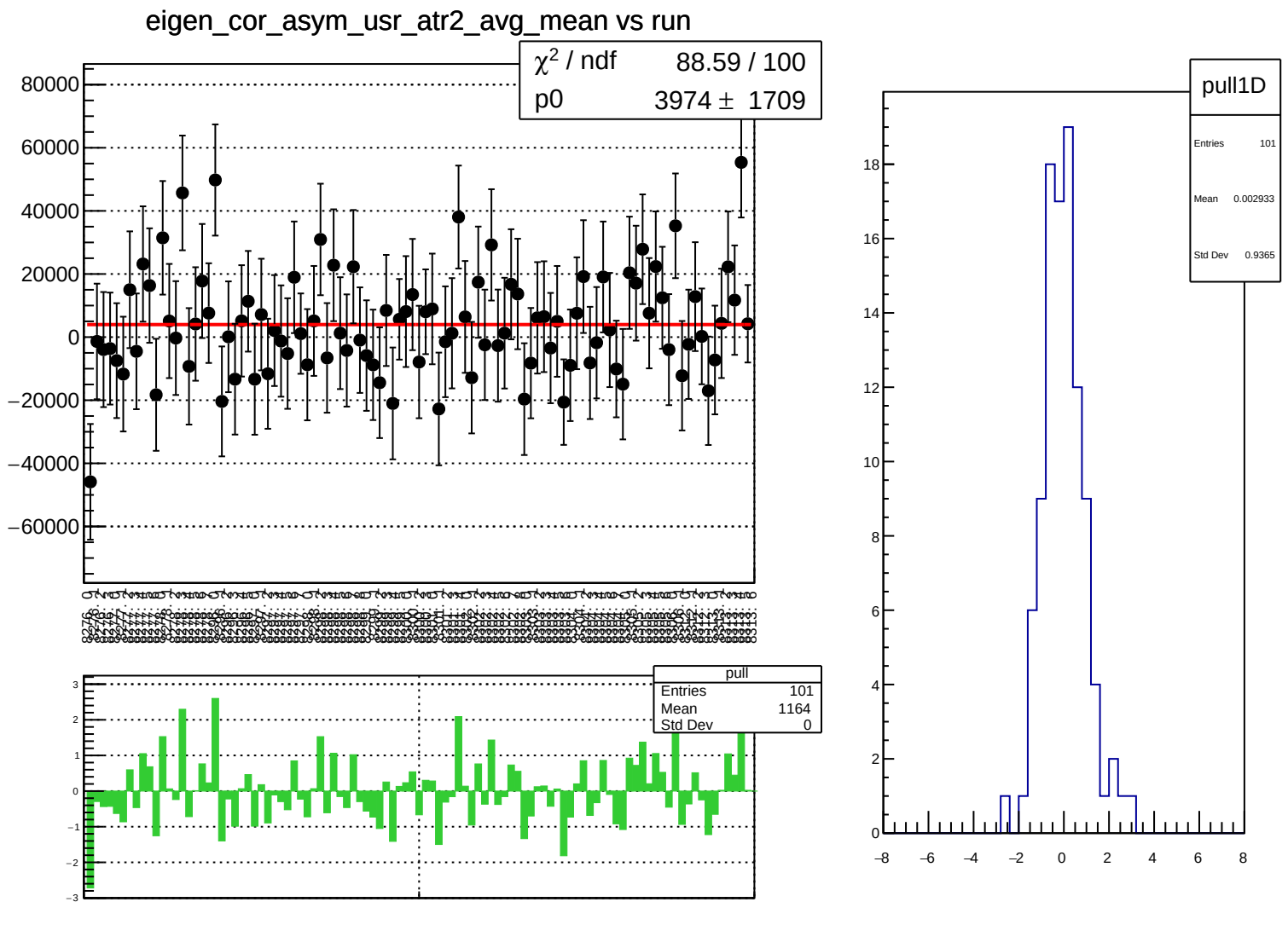

cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 88.59 / 100
p0 3974 ± 1709
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean 1164
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.002933
Std Dev 0.9365
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

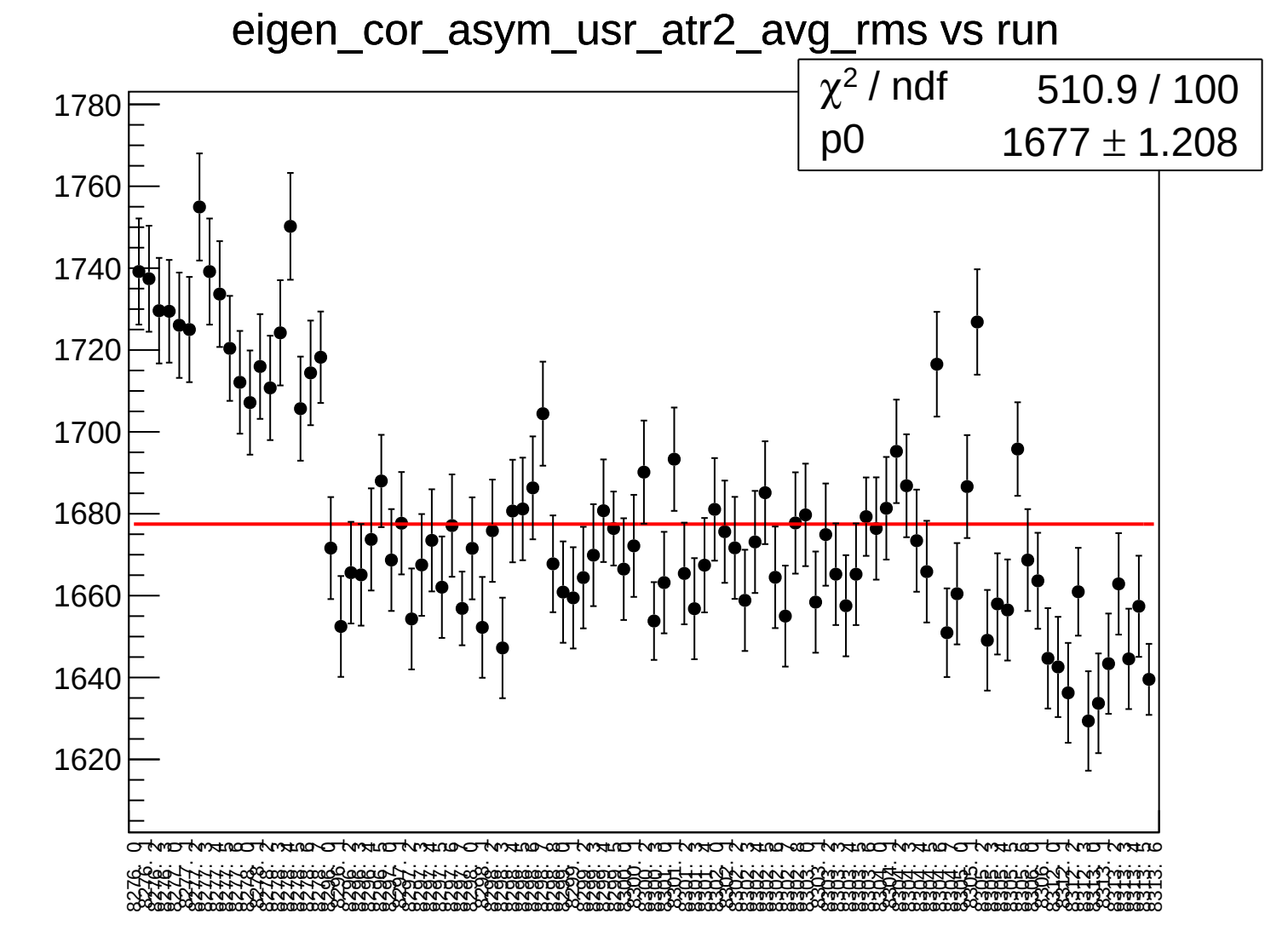

cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 510.9 / 100
p0 1677 ± 1.208
1780
1760
1740
1720
1700
1680
1660
1640
1620

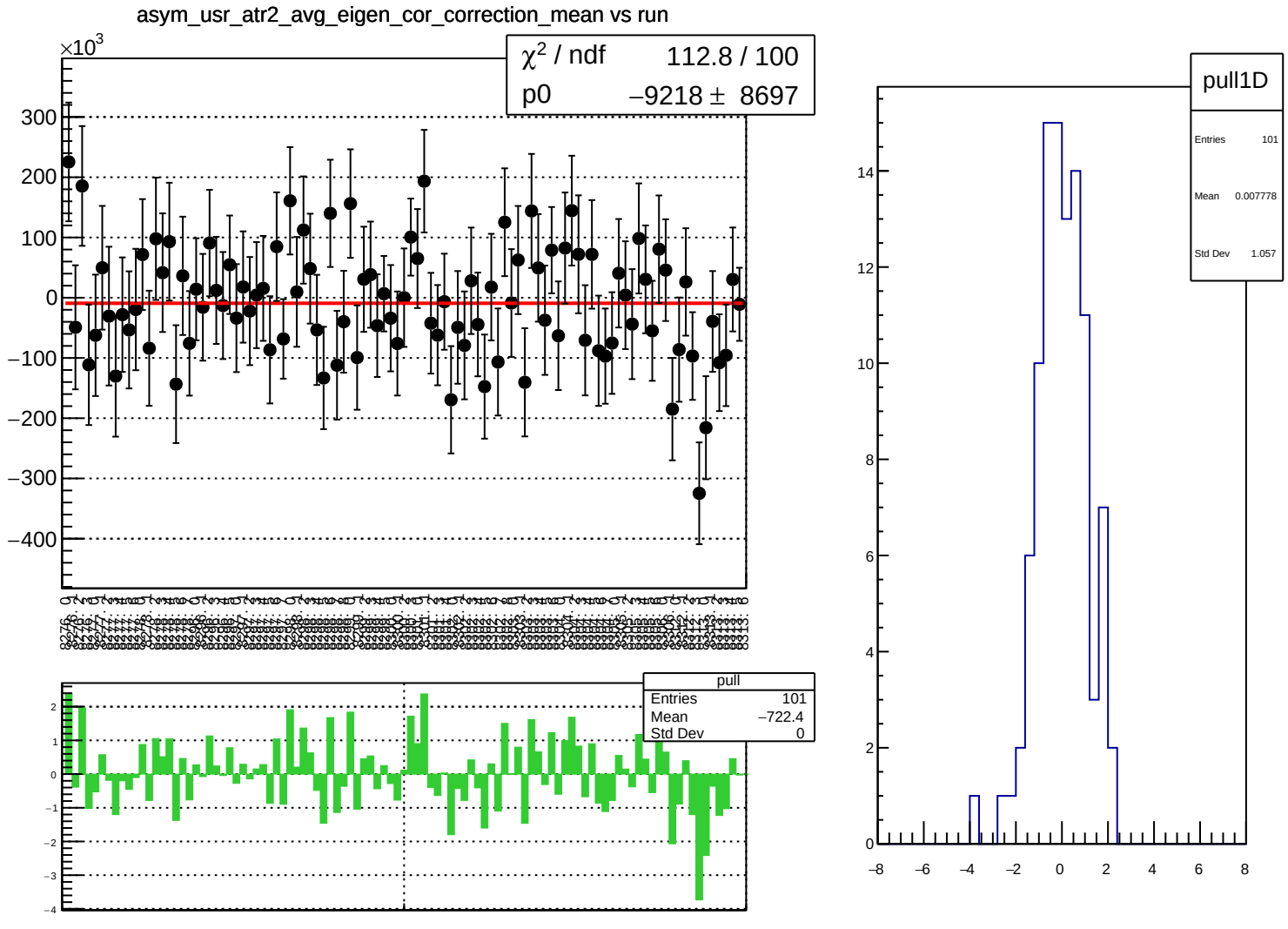

asym_usr_atr2_avg_cor_correction_mean vs run
χ^2 / ndf 112.8 / 100
p0 −9218 ± 8697
×10^3
300
200
100
0
−100
−200
−300
−400
pull
Entries 101
Mean −722.4
Std Dev 0
2
1
0
−1
−2
−3
−4

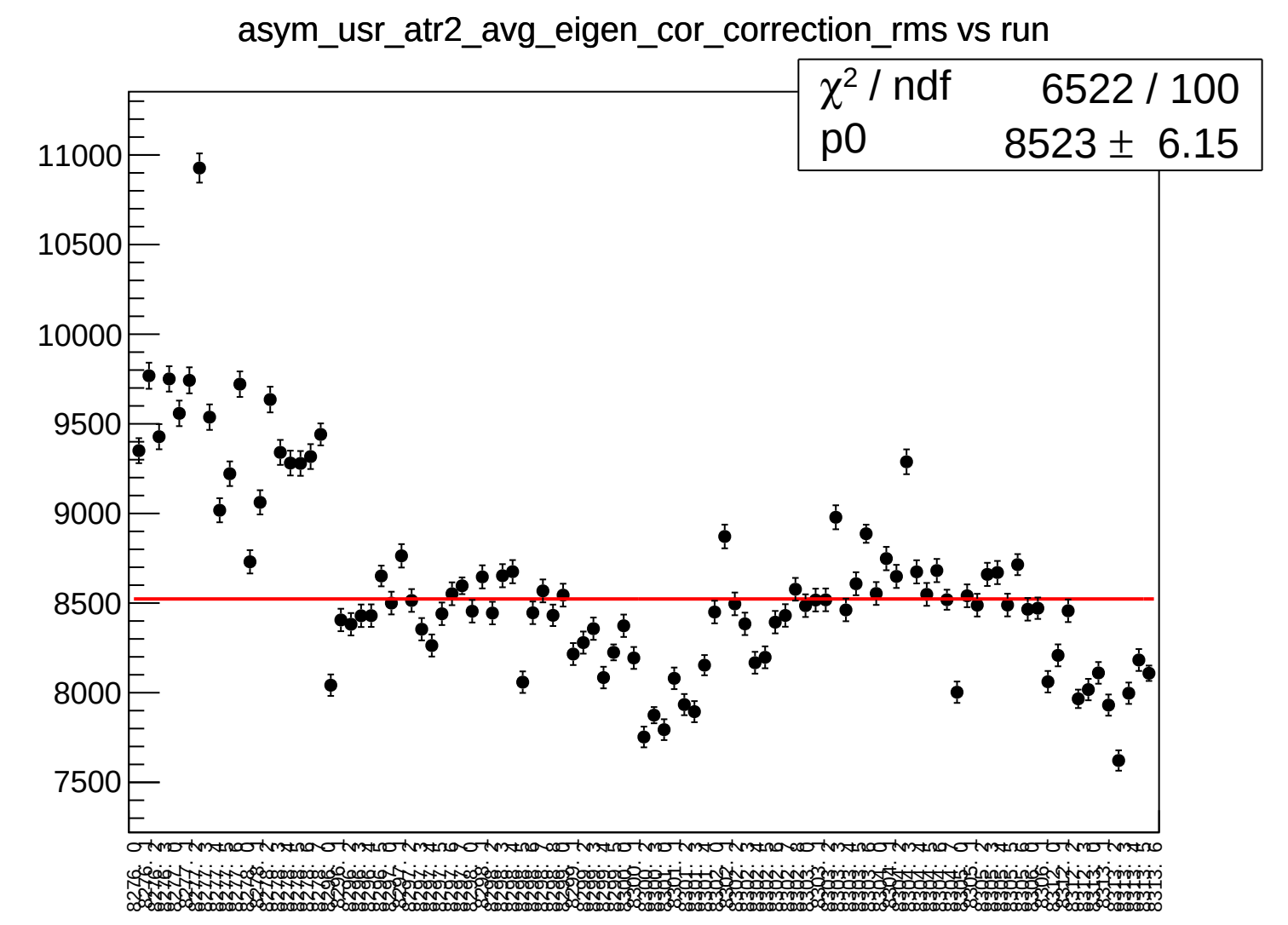

pull1D
Entries 101
Mean 0.007778
Std Dev 1.057
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

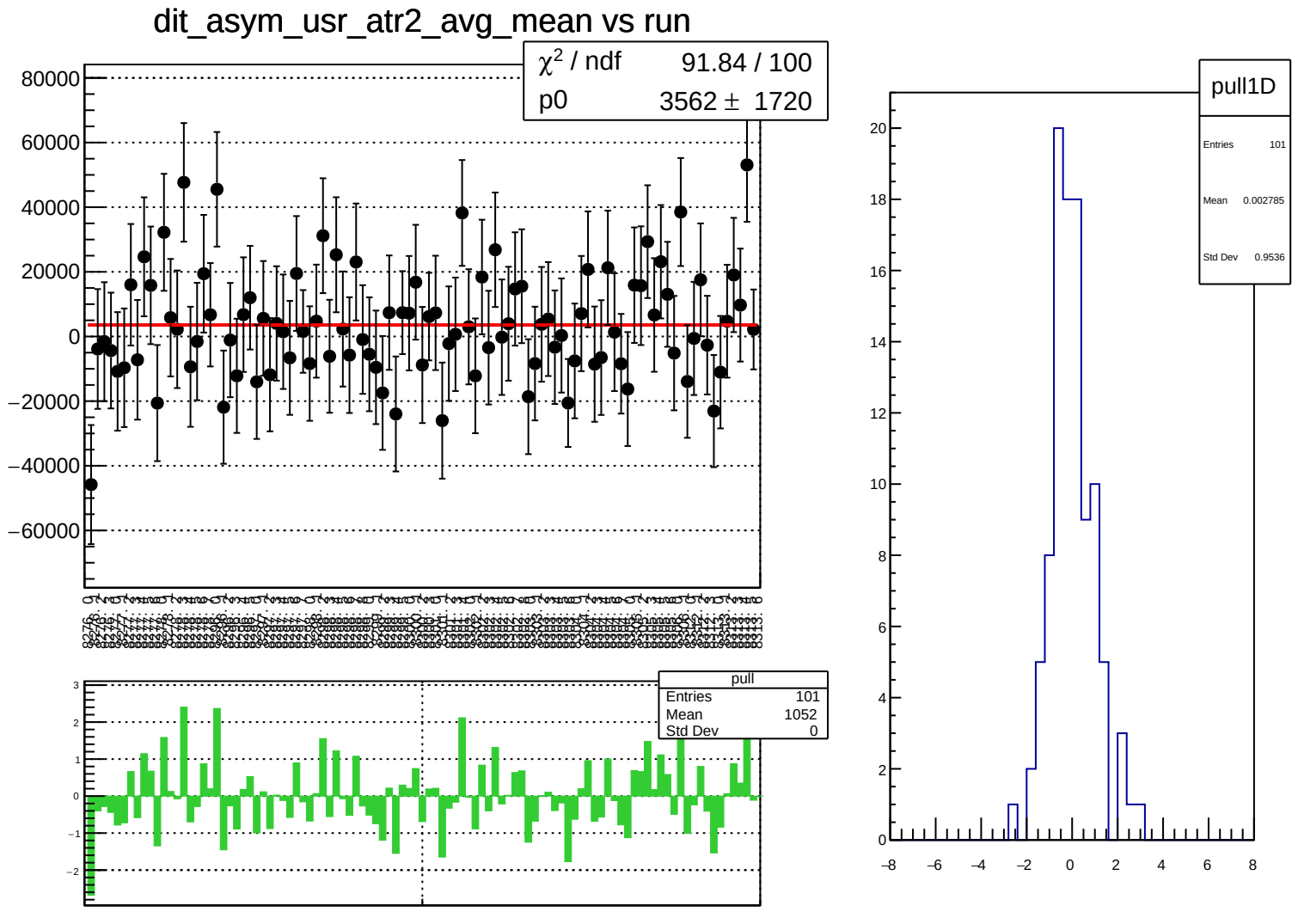

asym_usr_atr2_avg_cor_correction_rms vs run
χ² / ndf 6522 / 100
p0 8523 ± 6.15
11000
10500
10000
9500
9000
8500
8000
7500

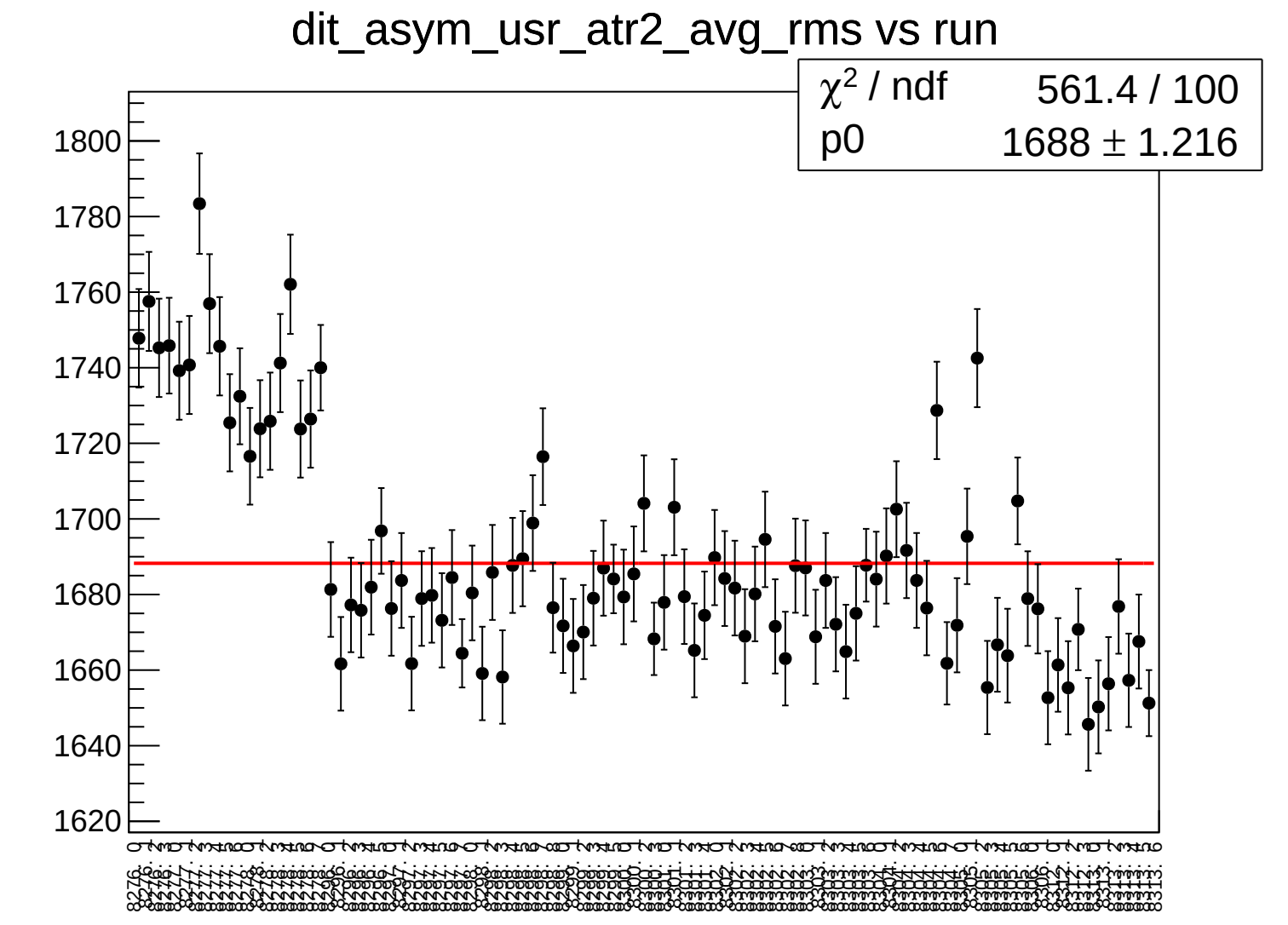

eigen_cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 88.59 / 100
p0 3974 ± 1709
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean 1164
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.002933
Std Dev 0.9365
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

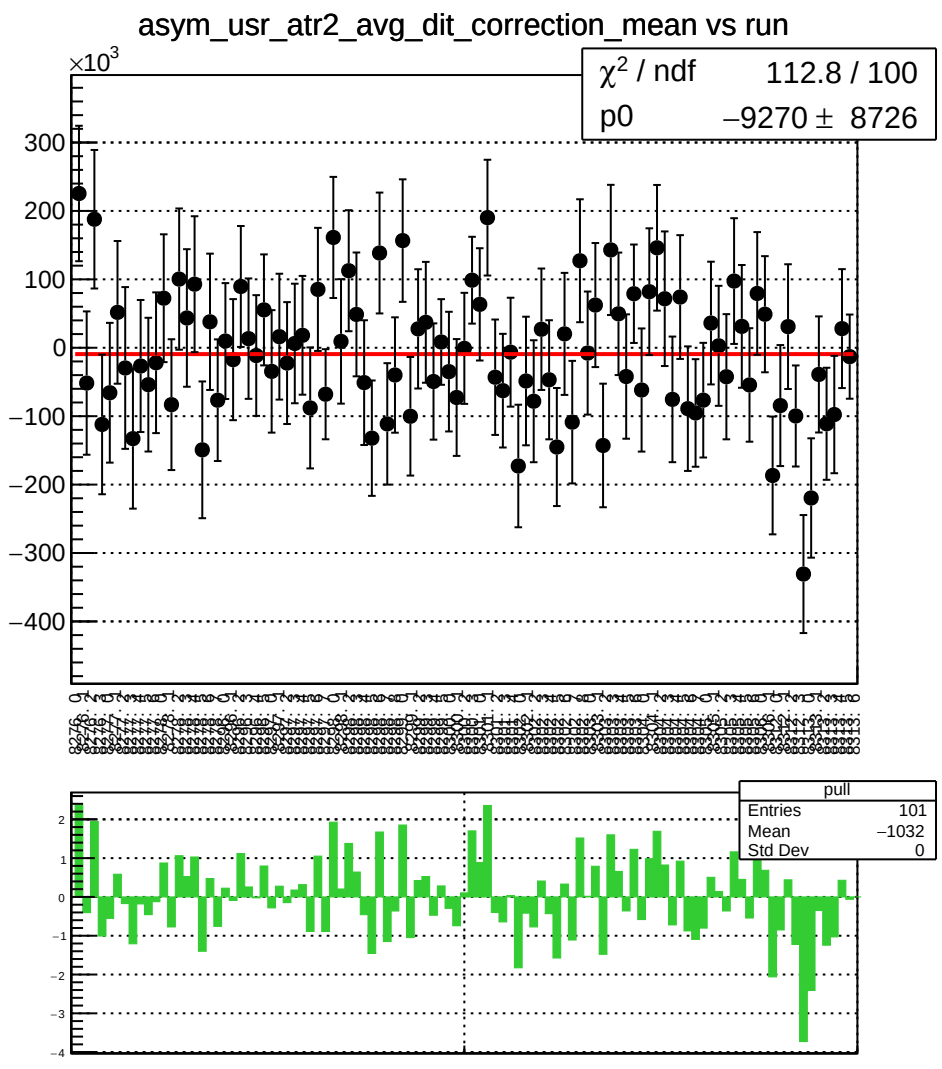

eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 510.9 / 100
p0 1677 ± 1.208
1780
1760
1740
1720
1700
1680
1660
1640
1620

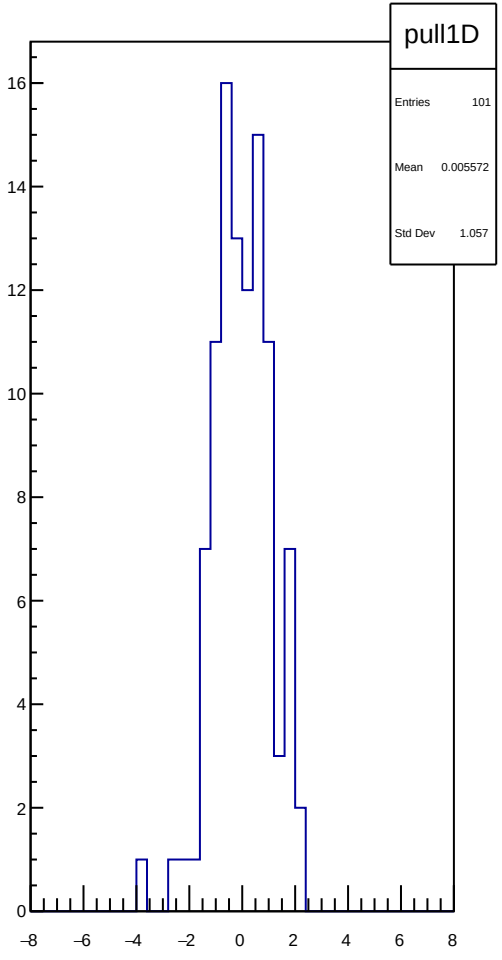

asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 112.8 / 100
p0 −9218 ± 8697
300
200
100
0
−100
−200
−300
−400
pull
Entries 101
Mean −722.4
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 101
Mean 0.007778
Std Dev 1.057
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 6522 / 100
p0 8523 ± 6.15
11000
10500
10000
9500
9000
8500
8000
7500


dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 91.84 / 100
p0 3562 ± 1720
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean 1052
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.002785
Std Dev 0.9536
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 561.4 / 100
p0 1688 ± 1.216
1800
1780
1760
1740
1720
1700
1680
1660
1640
1620


asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 112.8 / 100
p0 −9270 ± 8726
300
200
100
0
−100
−200
−300
−400
pull
Entries 101
Mean −1032
Std Dev 0
2
1
0
−1
−2
−3
−4


pull1D
Entries 101
Mean 0.005572
Std Dev 1.057
16
14
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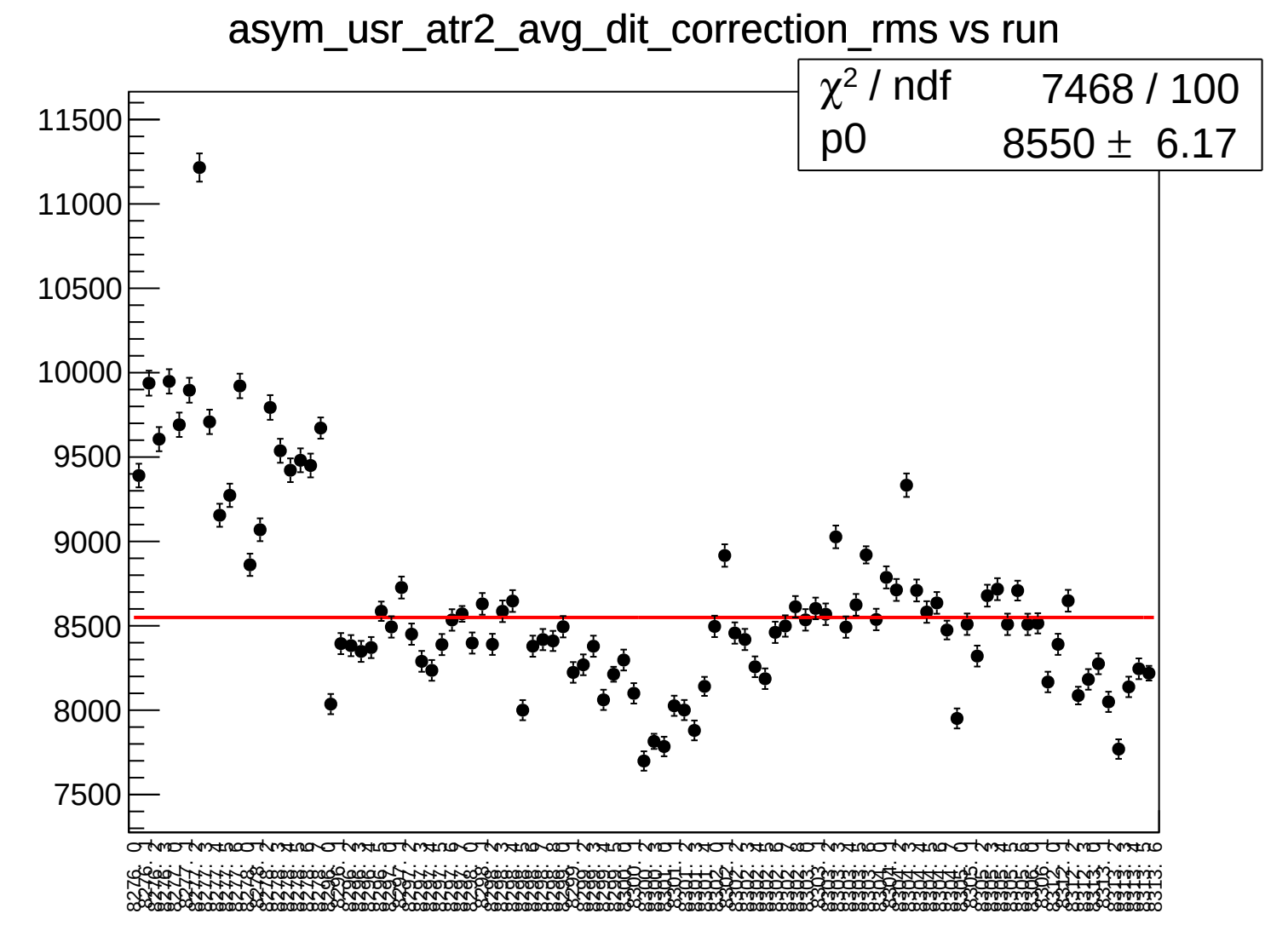
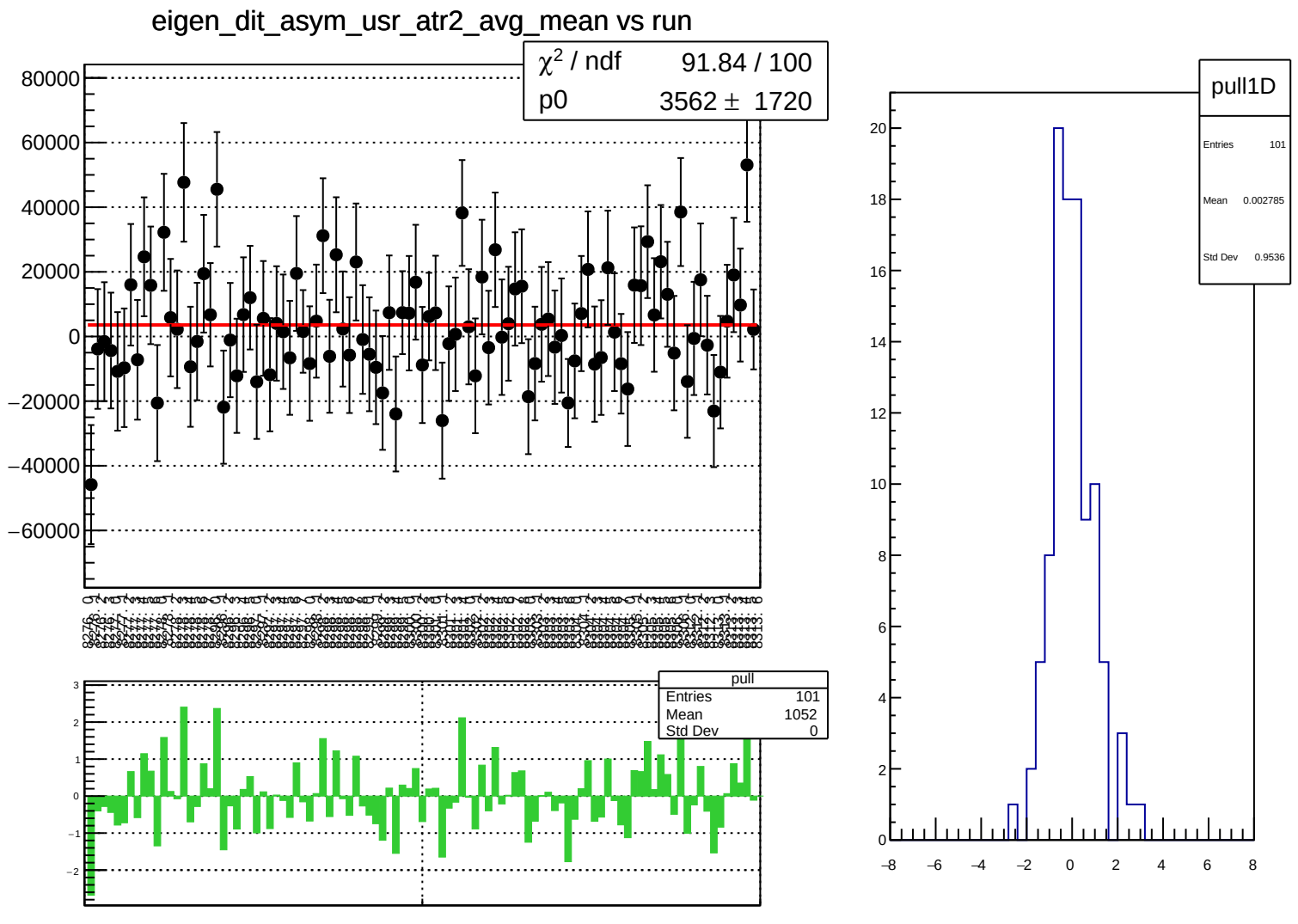
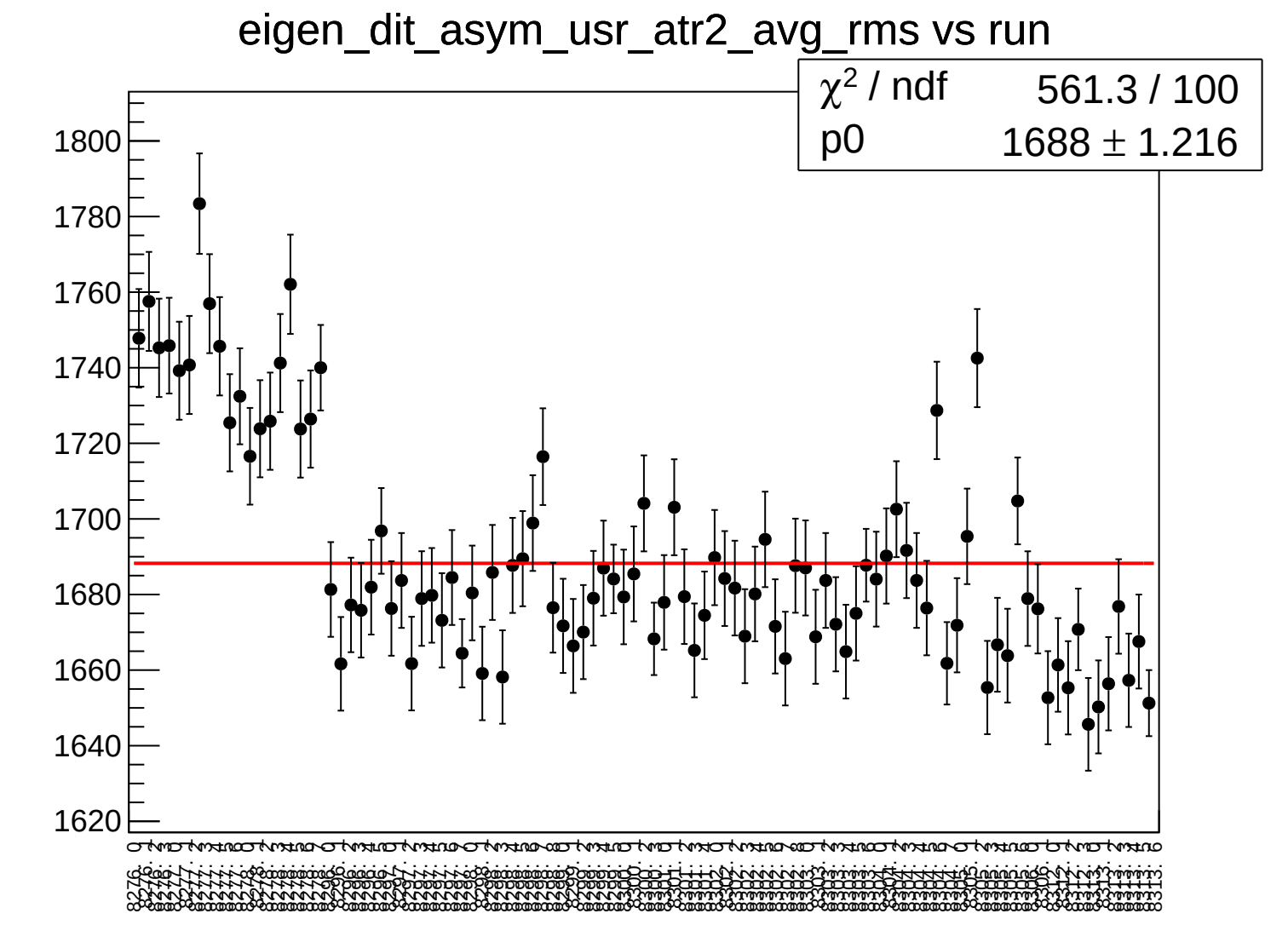
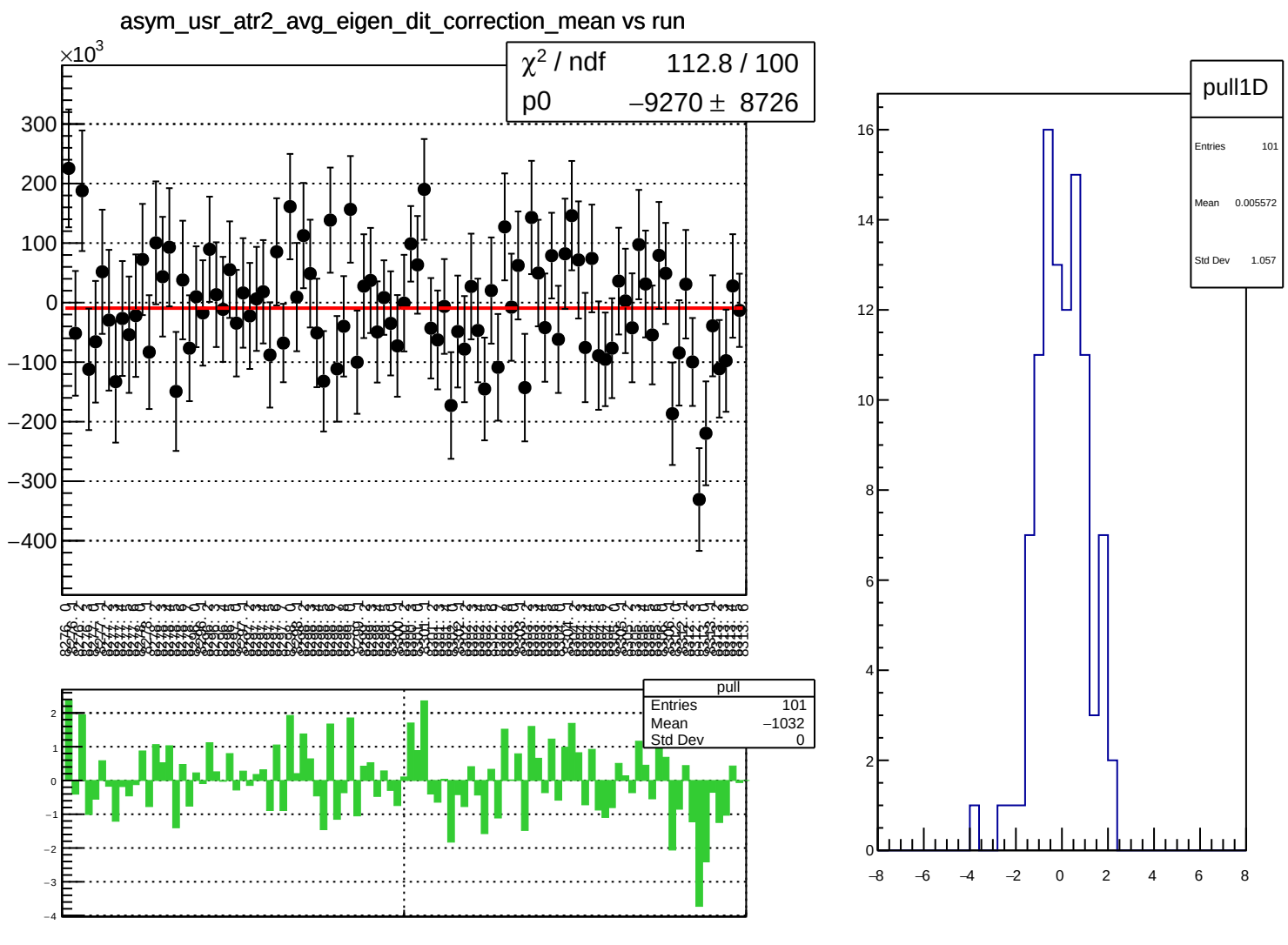
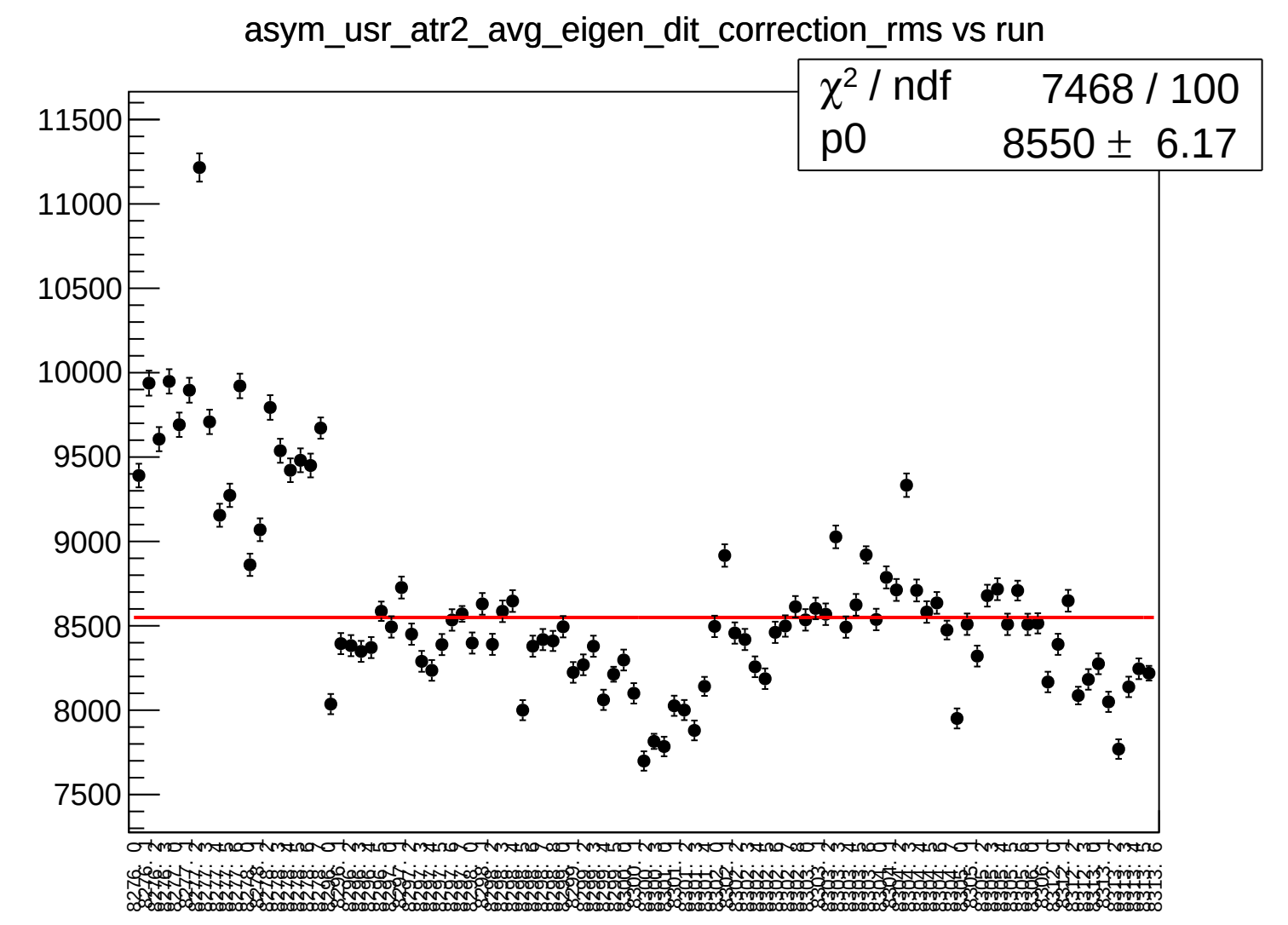
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

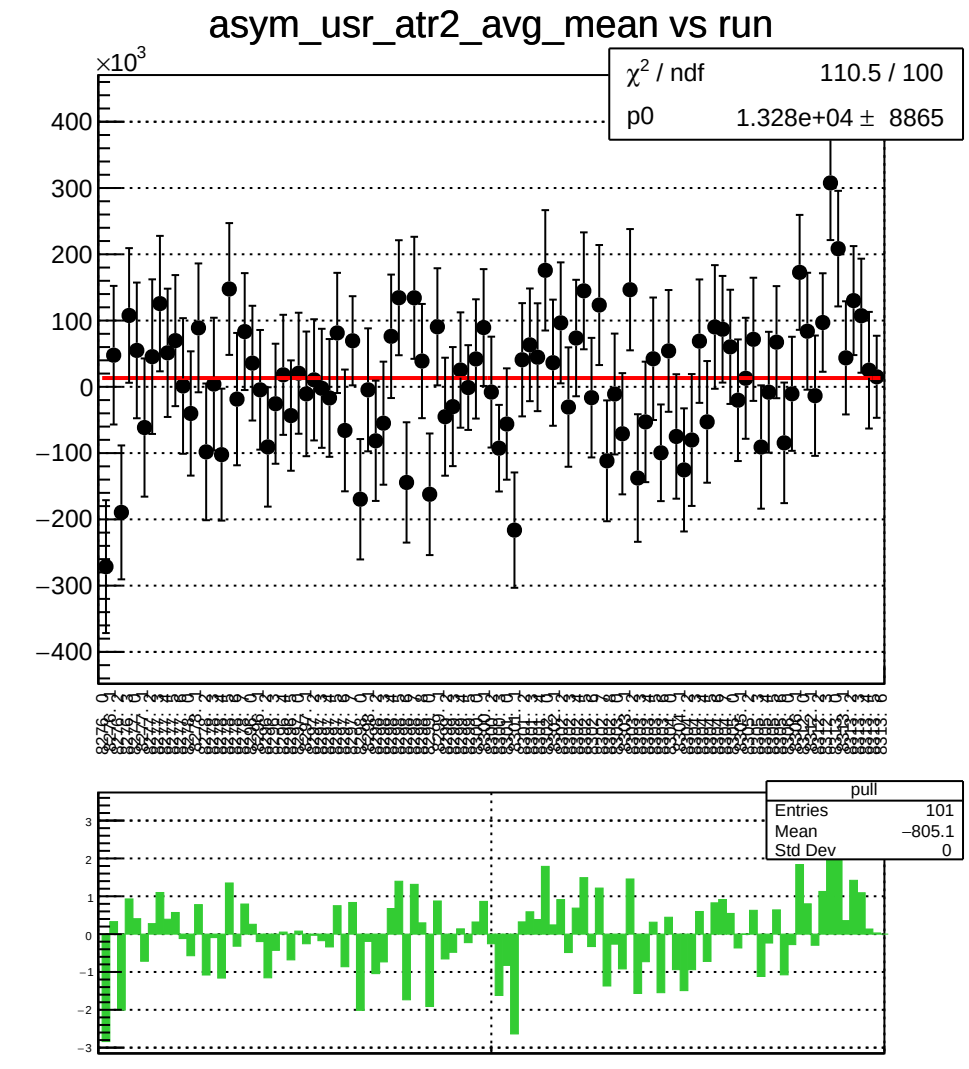

asym_usr_atr2_avg_dit_correction_rms vs run
χ^2 / ndf 7468 / 100
p0 8550 ± 6.17
11500
11000
10500
10000
9500
9000
8500
8000
7500

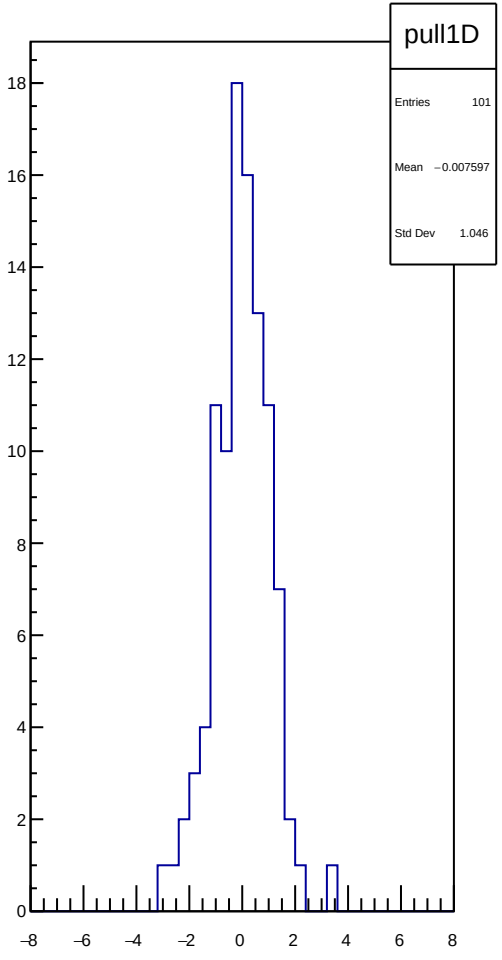

eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 91.84 / 100
p0 3562 ± 1720
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean 1052
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.002785
Std Dev 0.9536
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

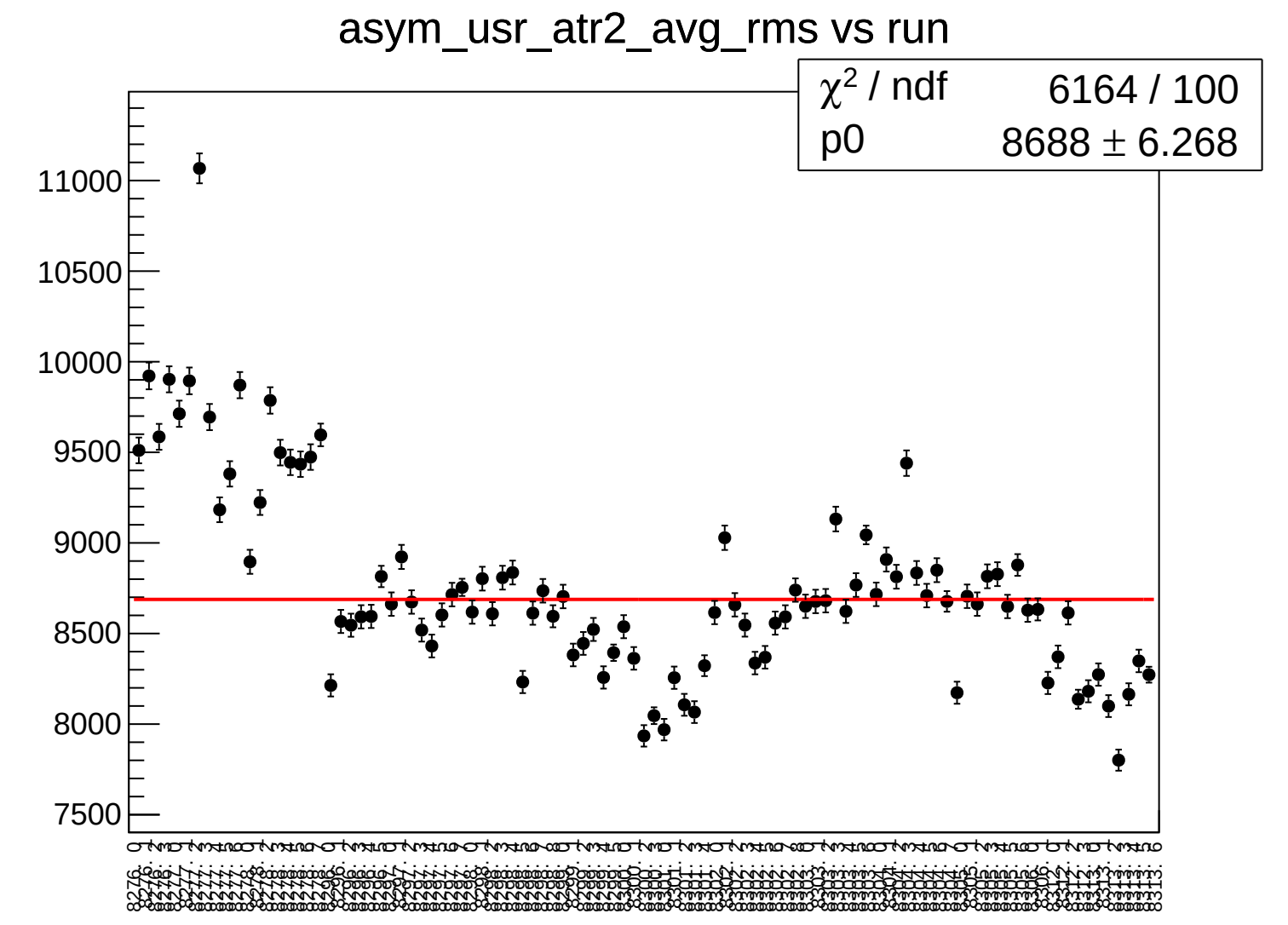

eigen_dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 561.3 / 100
p0 1688 ± 1.216
1800
1780
1760
1740
1720
1700
1680
1660
1640
1620

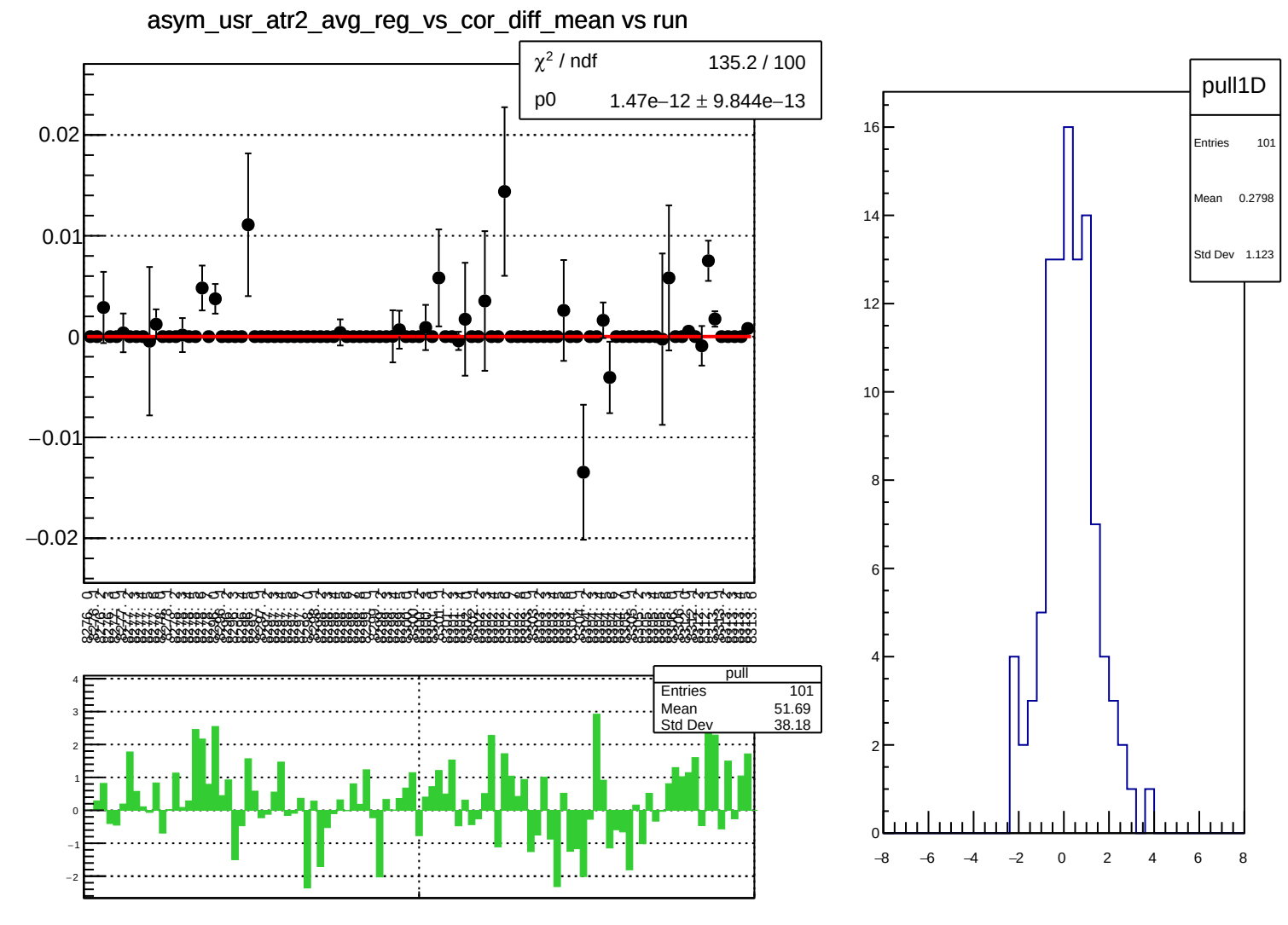

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 112.8 / 100
p0 −9270 ± 8726
300
200
100
0
−100
−200
−300
−400
pull
Entries 101
Mean −1032
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 101
Mean 0.005572
Std Dev 1.057
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

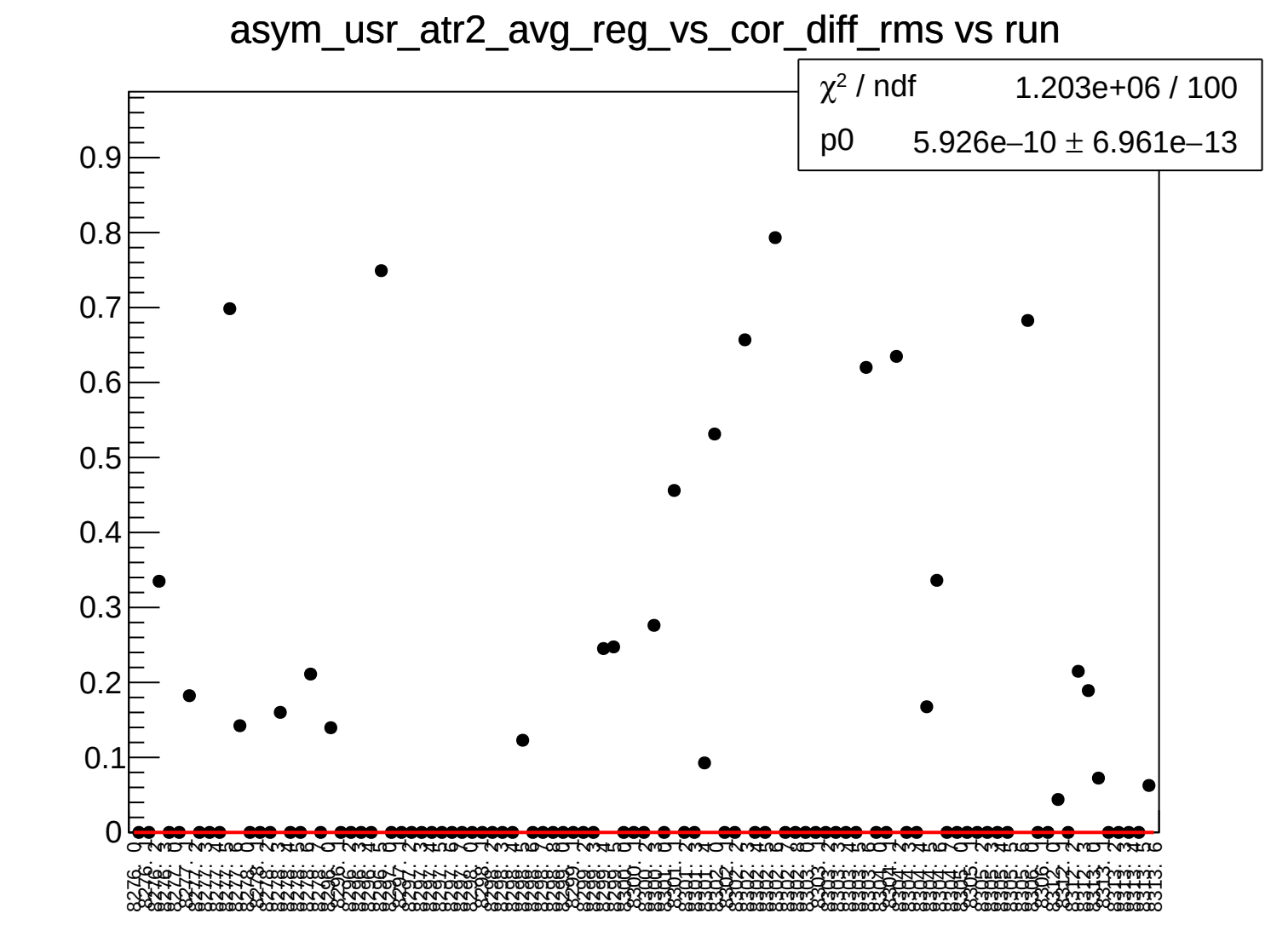

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 7468 / 100
p0 8550 ± 6.17
11500
11000
10500
10000
9500
9000
8500
8000
7500

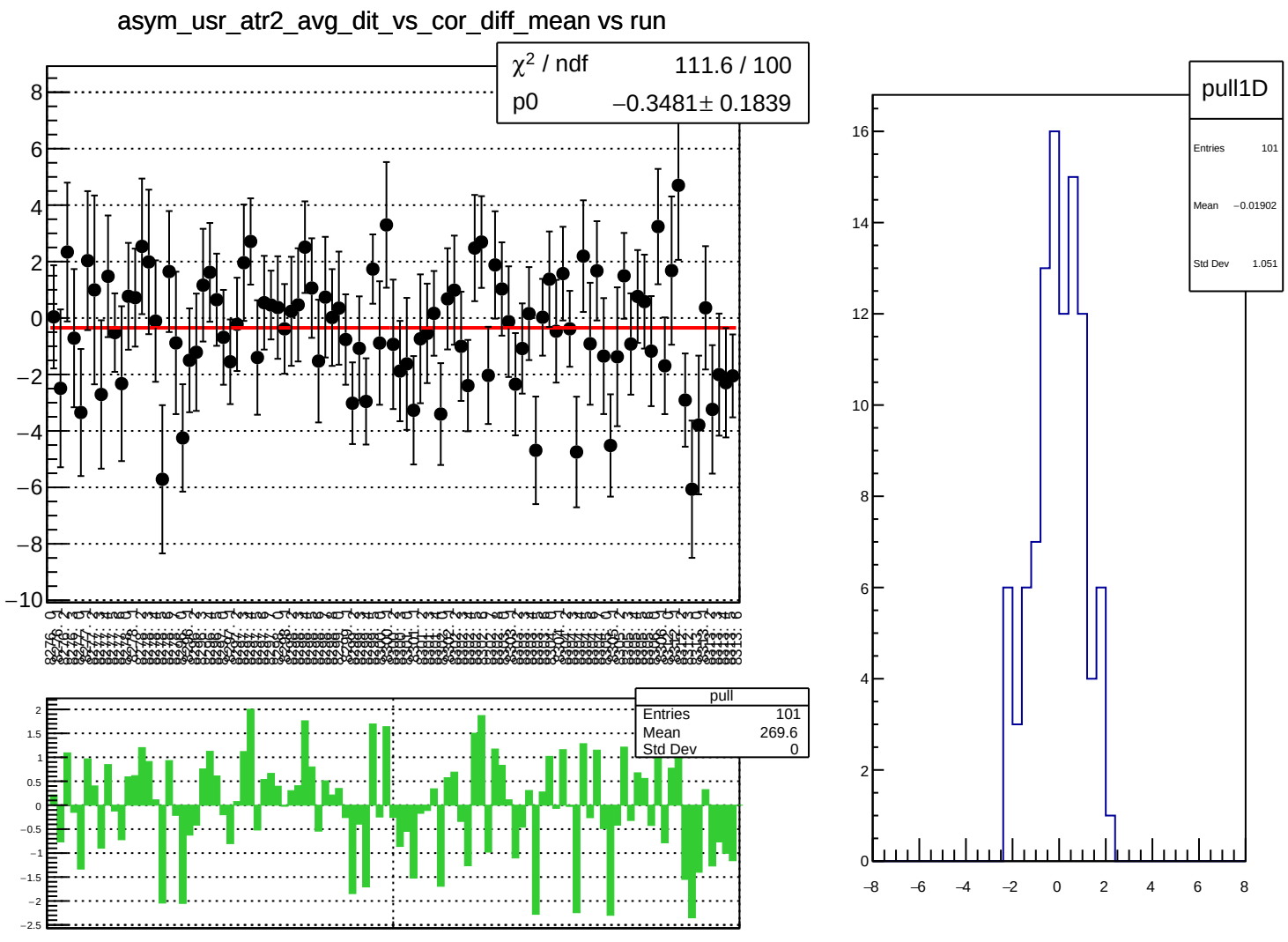

asym_usr_atr2_avg_mean vs run
×10^3
χ² / ndf 110.5 / 100
p0 1.328e+04 ± 8865
pull
Entries 101
Mean −805.1
Std Dev 0

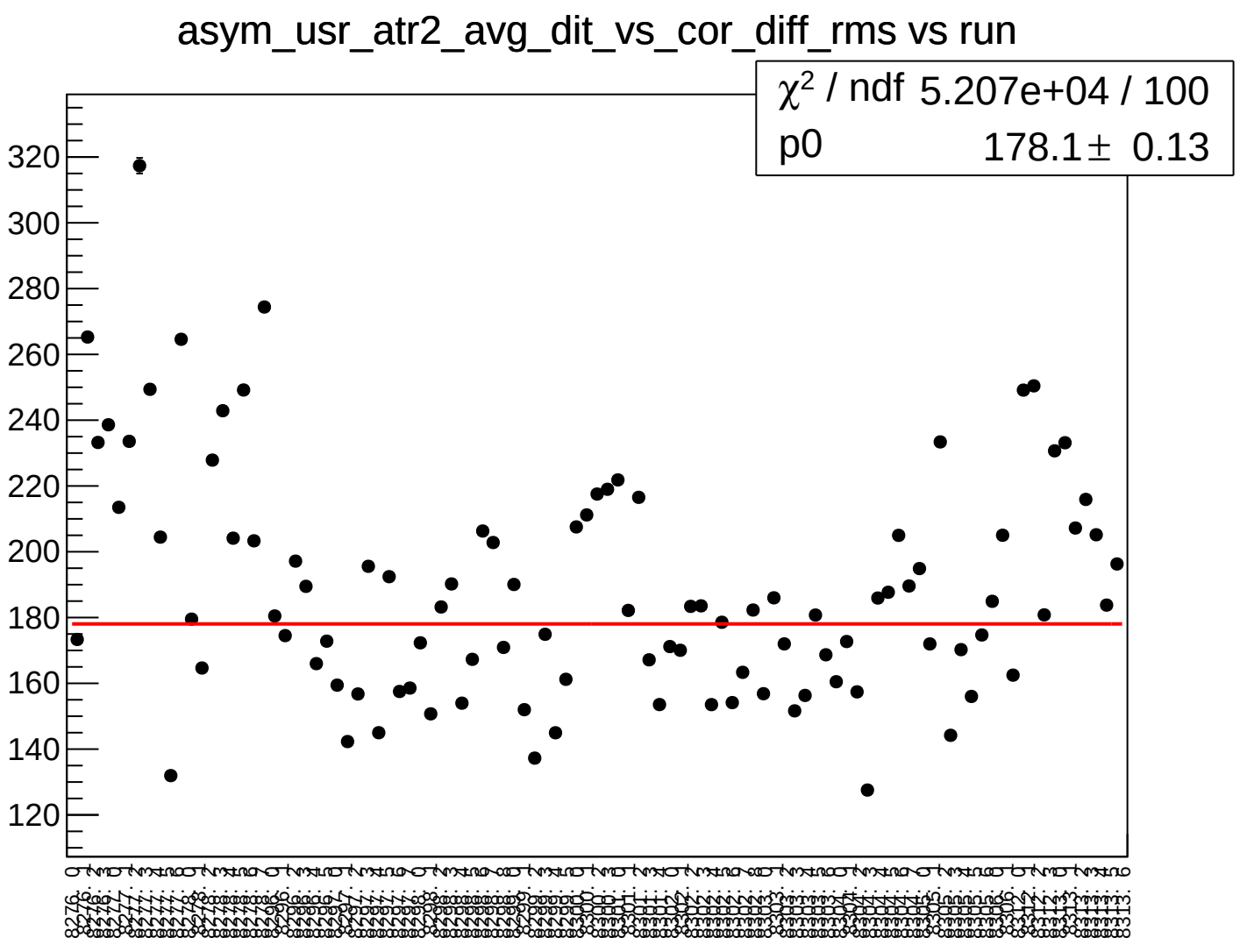

pull1D
Entries 101
Mean −0.007597
Std Dev 1.046

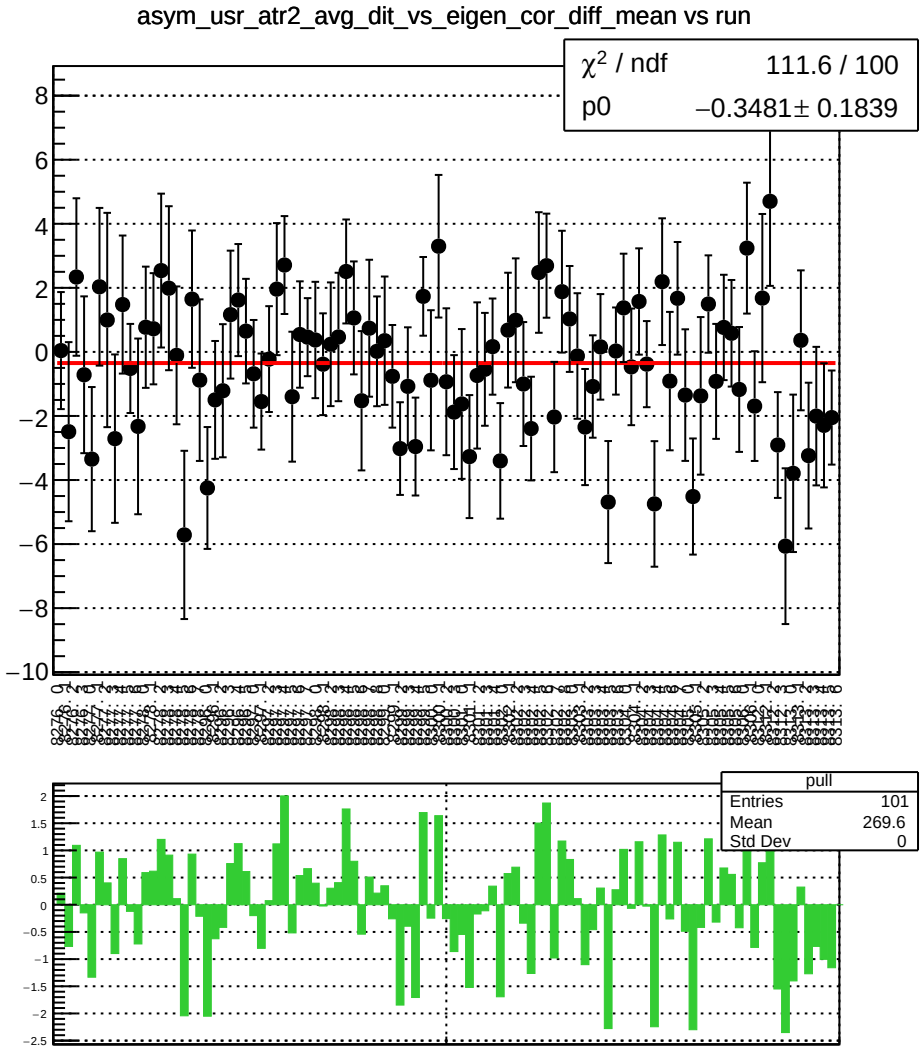

asym_usr_atr2_avg_rms vs run
χ² / ndf 6164 / 100
p0 8688 ± 6.268
11000
10500
10000
9500
9000
8500
8000
7500

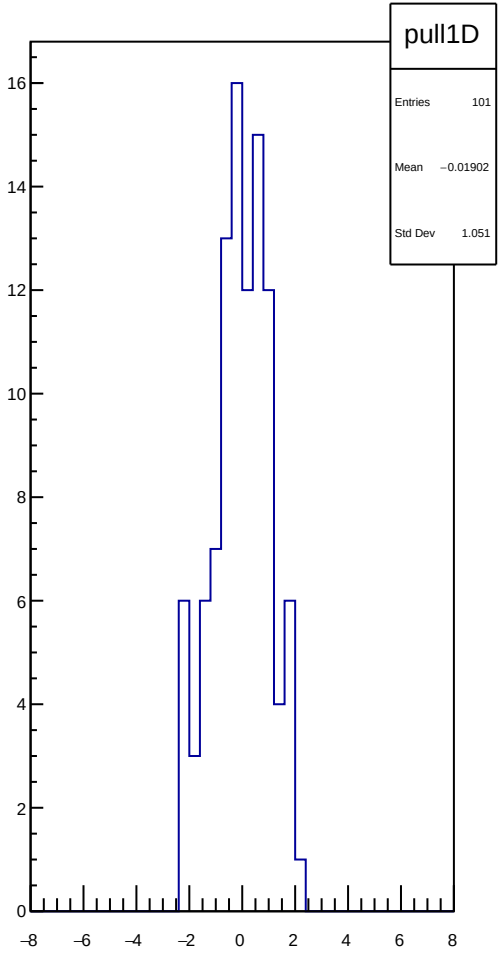

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 135.2 / 100
p0 1.47e−12 ± 9.844e−13
0.02
0.01
0
−0.01
−0.02
pull
Entries 101
Mean 51.69
Std Dev 38.18
pull1D
Entries 101
Mean 0.2798
Std Dev 1.123

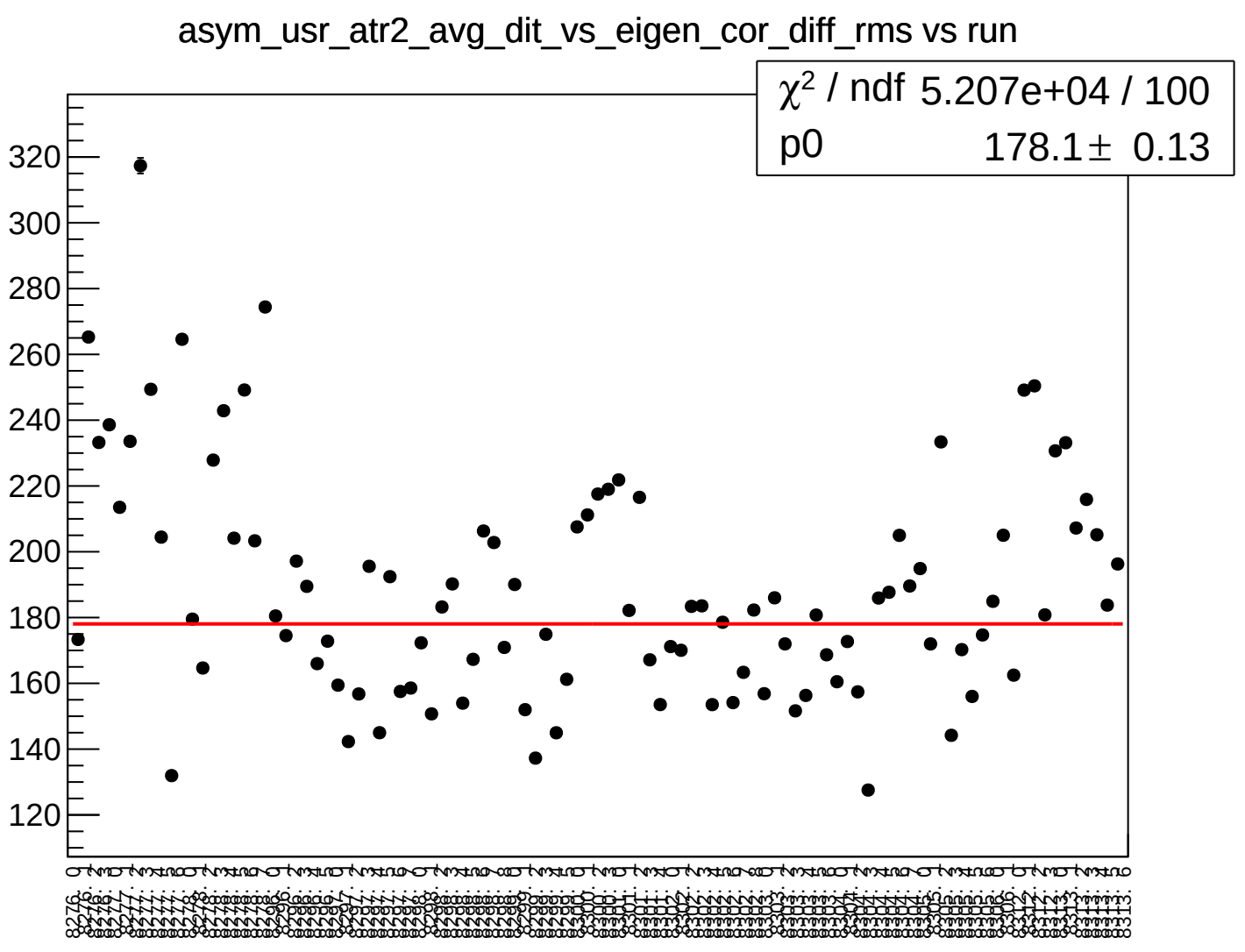

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.203e+06 / 100
p0 5.926e−10 ± 6.961e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

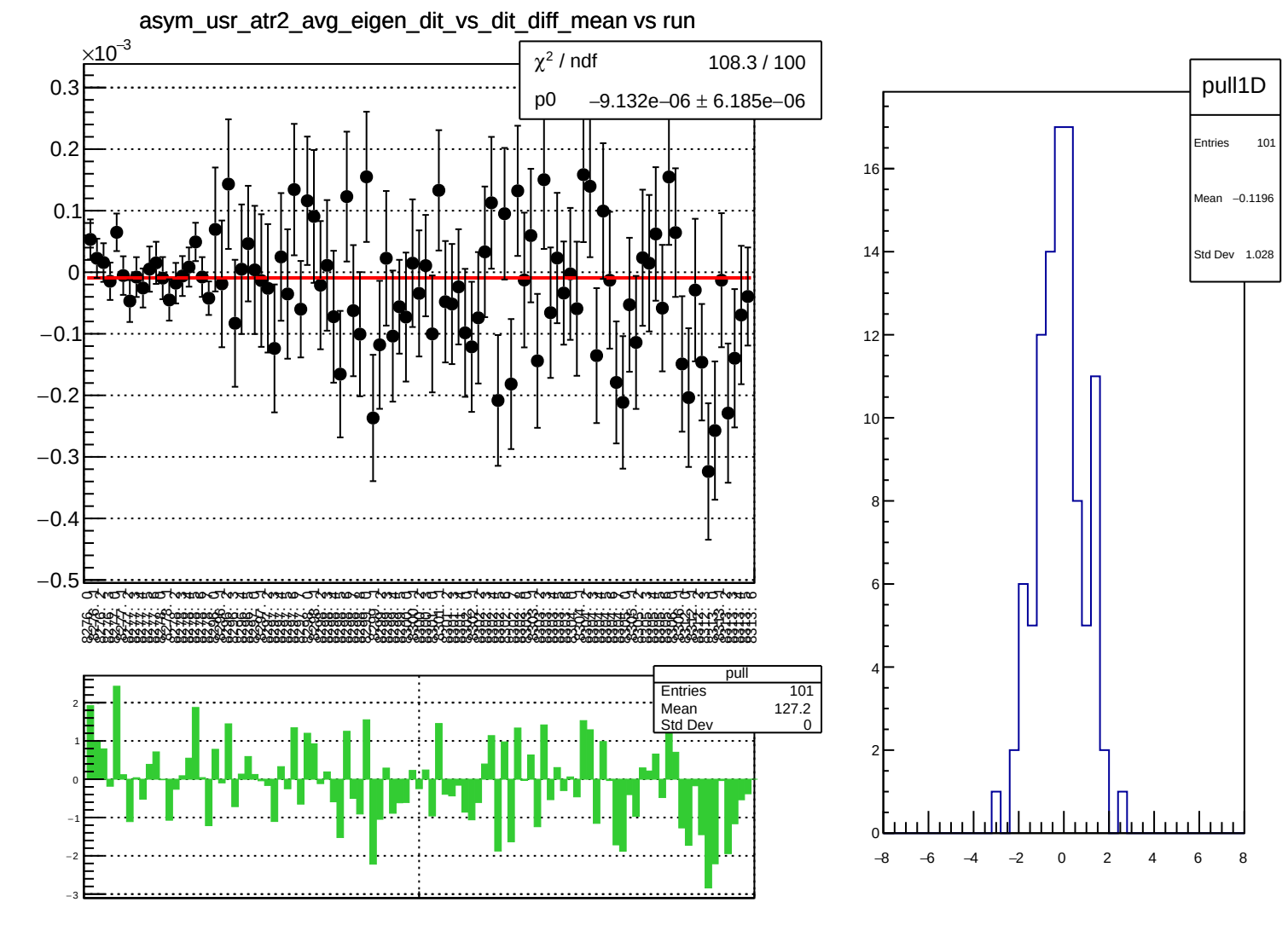

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 111.6 / 100
p0 −0.3481± 0.1839
pull
Entries 101
Mean 269.6
Std Dev 0
pull1D
Entries 101
Mean −0.01902
Std Dev 1.051

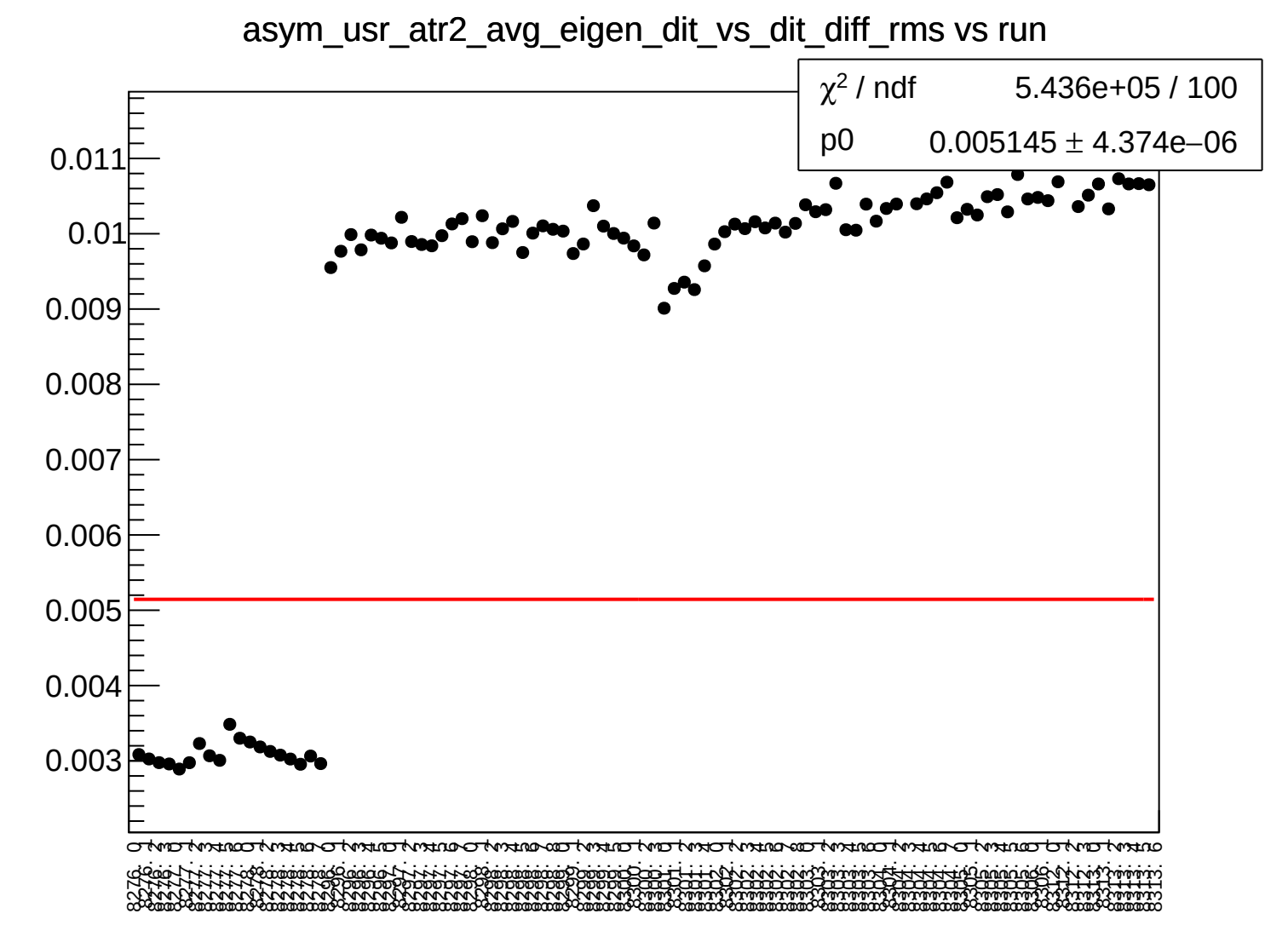

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.207e+04 / 100
p0 178.1 ± 0.13
320
300
280
260
240
220
200
180
160
140
120

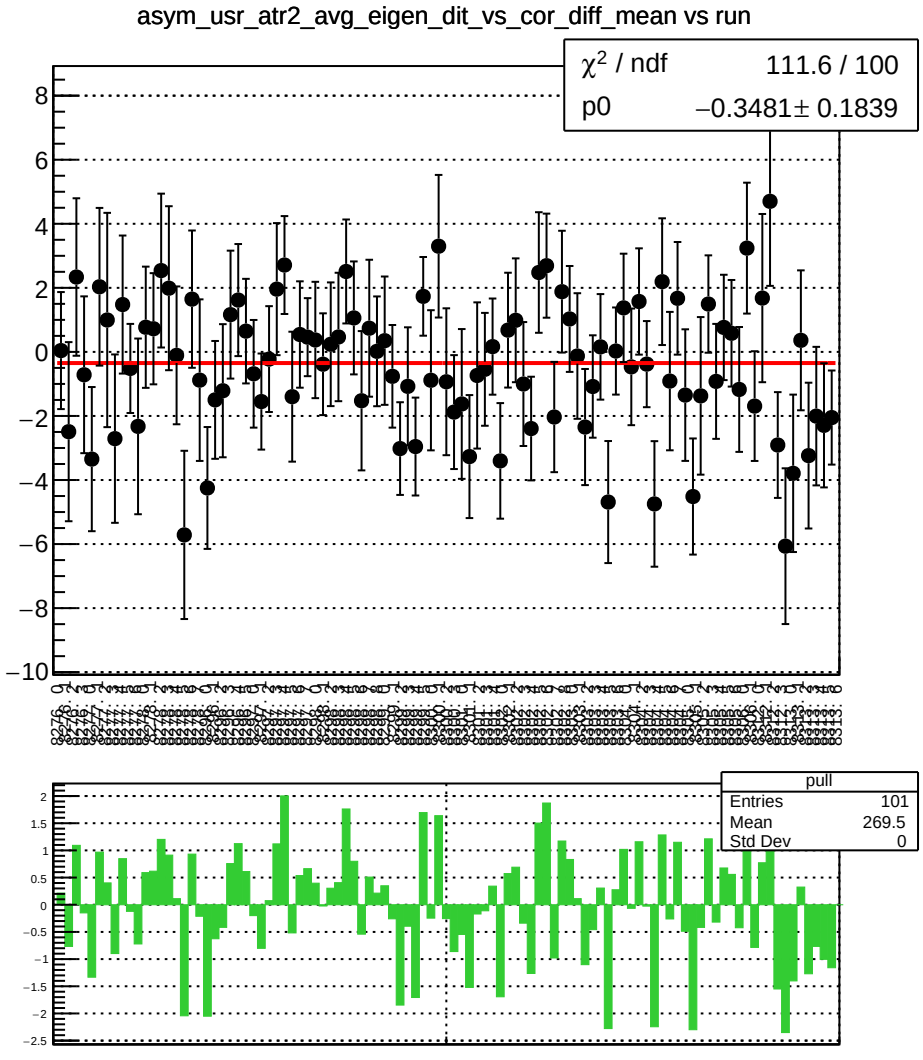

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 111.6 / 100
p0 −0.3481± 0.1839
pull
Entries 101
Mean 269.6
Std Dev 0

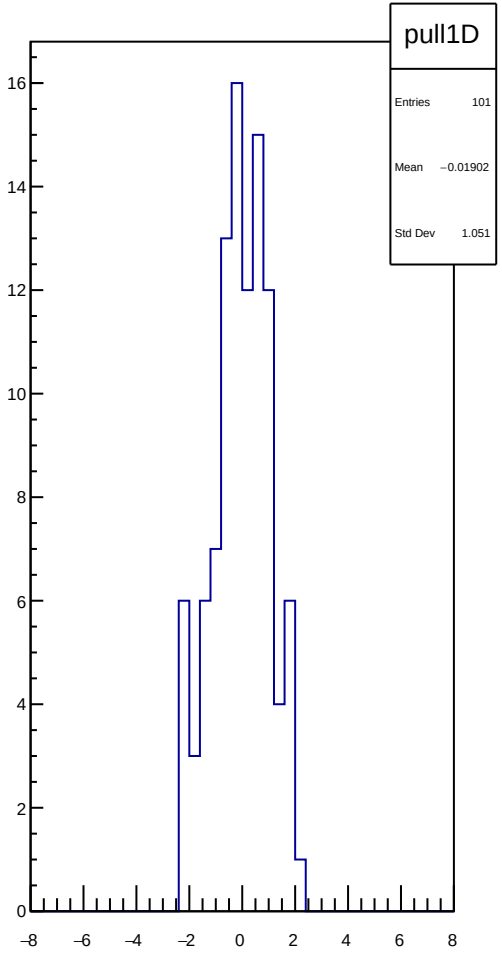

pull1D
Entries 101
Mean −0.01902
Std Dev 1.051

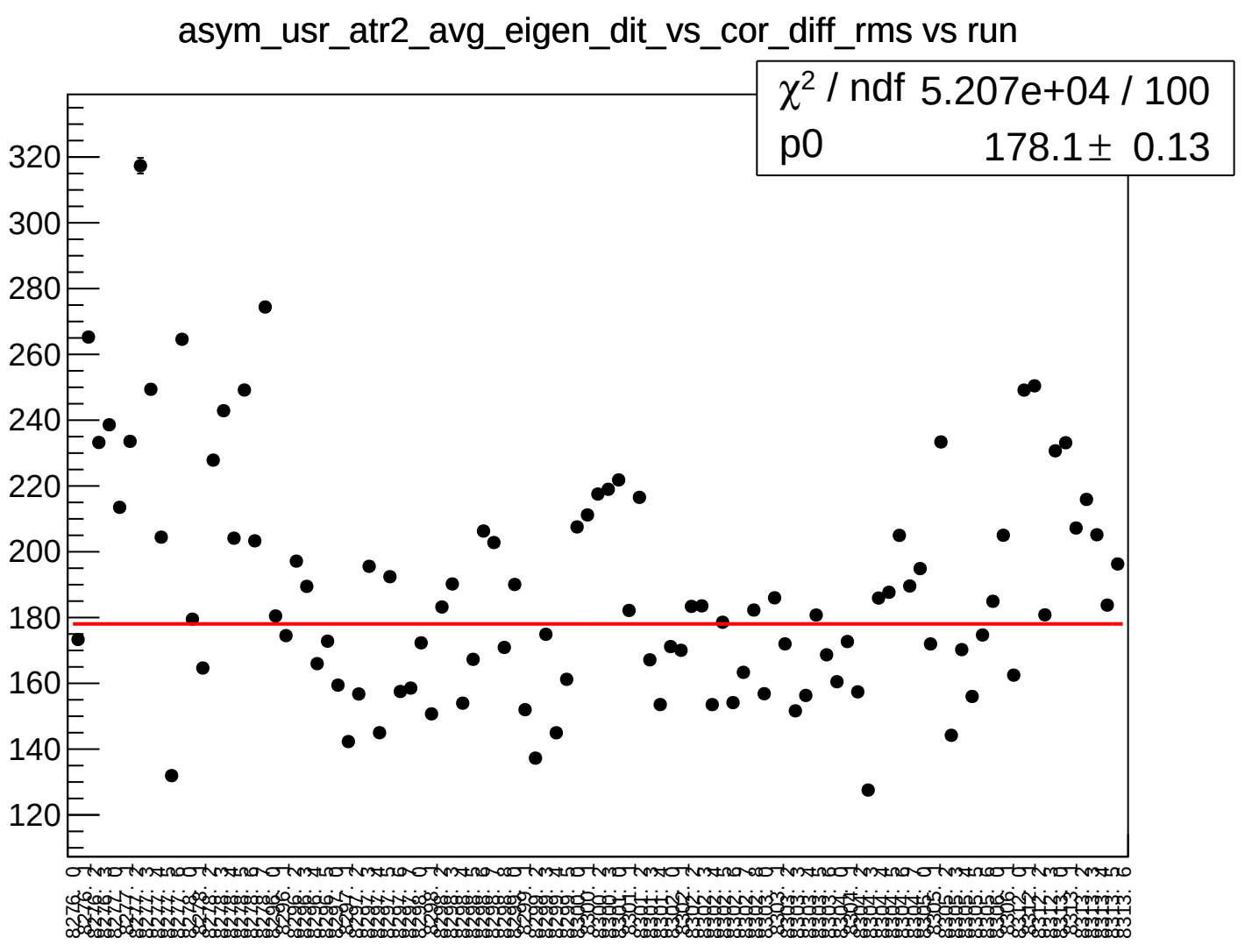

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.207e+04 / 100
p0 178.1 ± 0.13
320
300
280
260
240
220
200
180
160
140
120

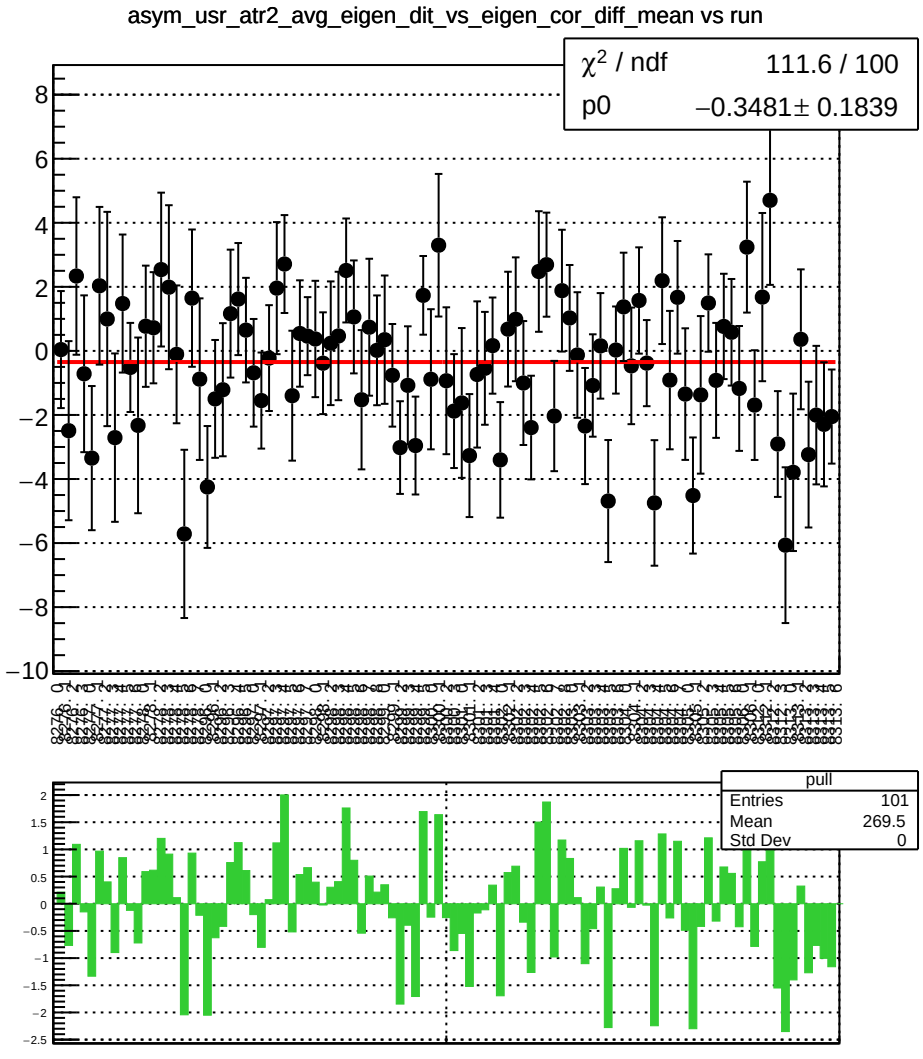

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 108.3 / 100
p0 −9.132e−06 ± 6.185e−06
pull
Entries 101
Mean 127.2
Std Dev 0
pull1D
Entries 101
Mean −0.1196
Std Dev 1.028

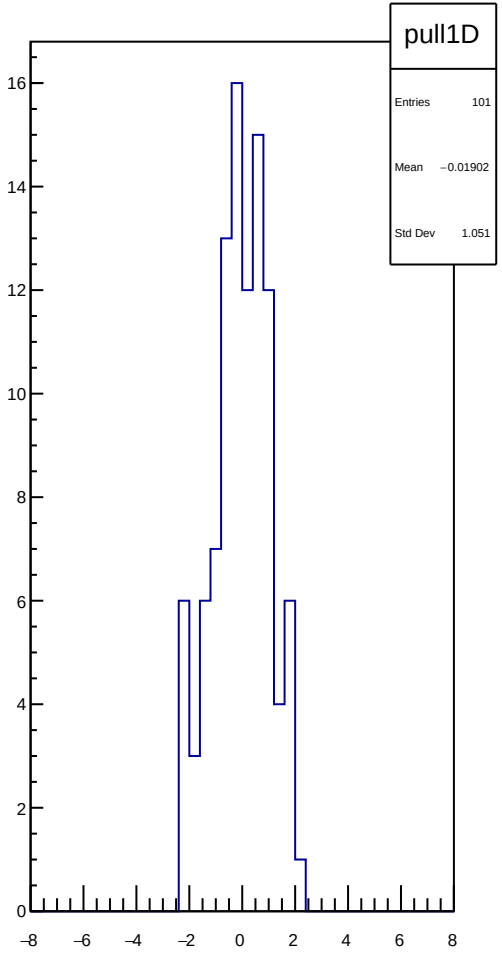

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.436e+05 / 100
p0 0.005145 ± 4.374e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

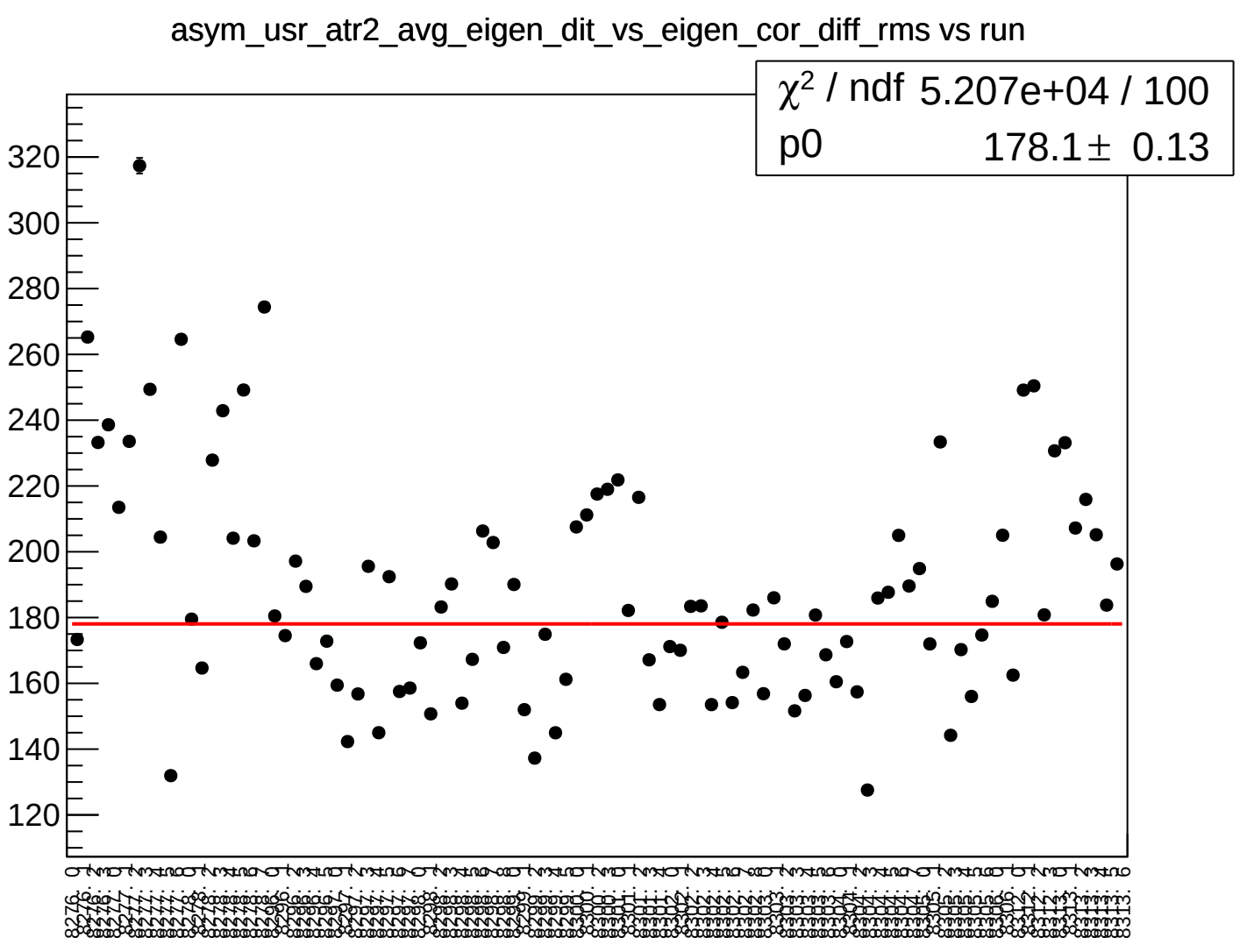

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 111.6 / 100
p0 −0.3481± 0.1839
pull
Entries 101
Mean 269.5
Std Dev 0

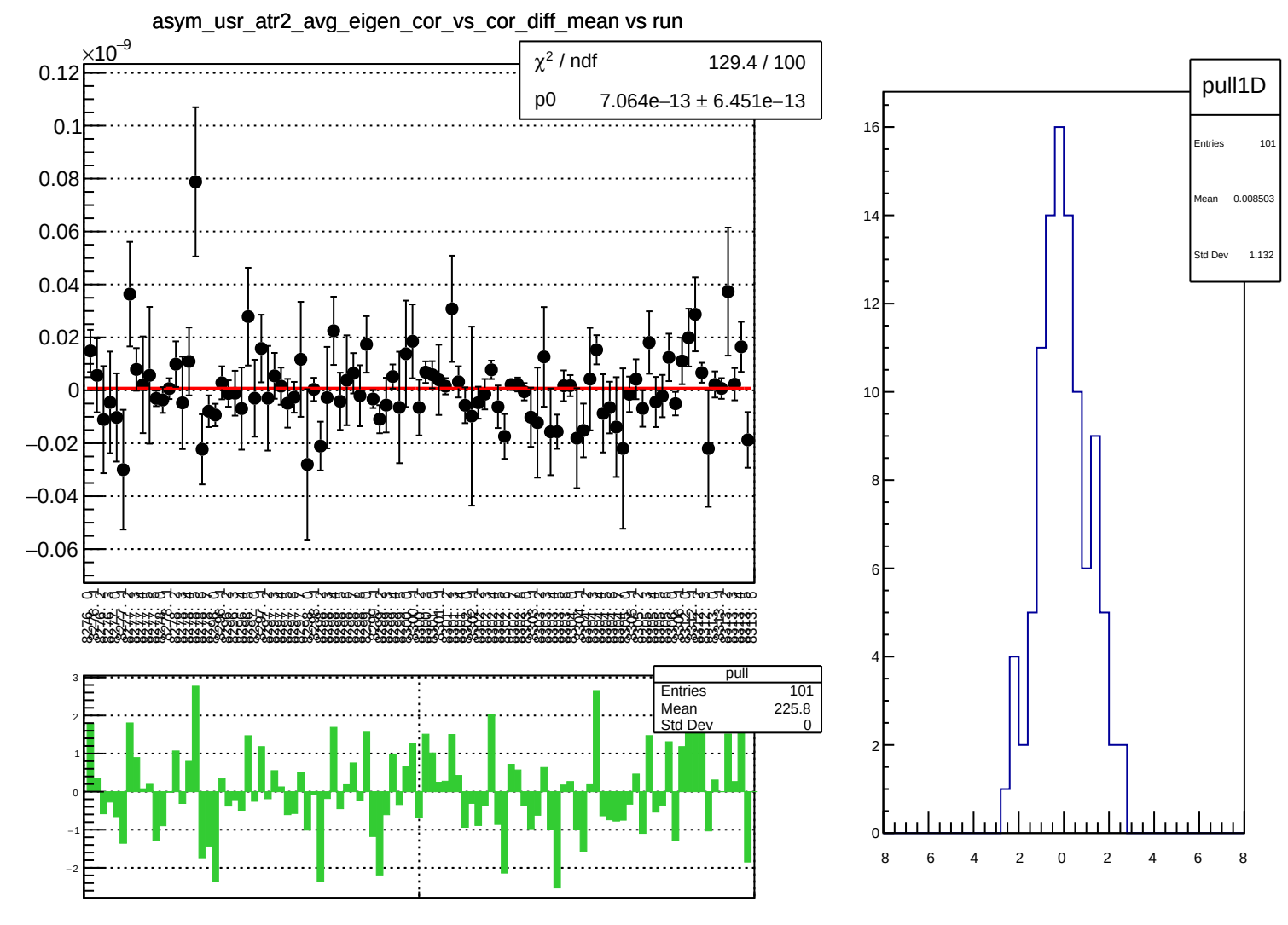

pull1D
Entries 101
Mean −0.01902
Std Dev 1.051

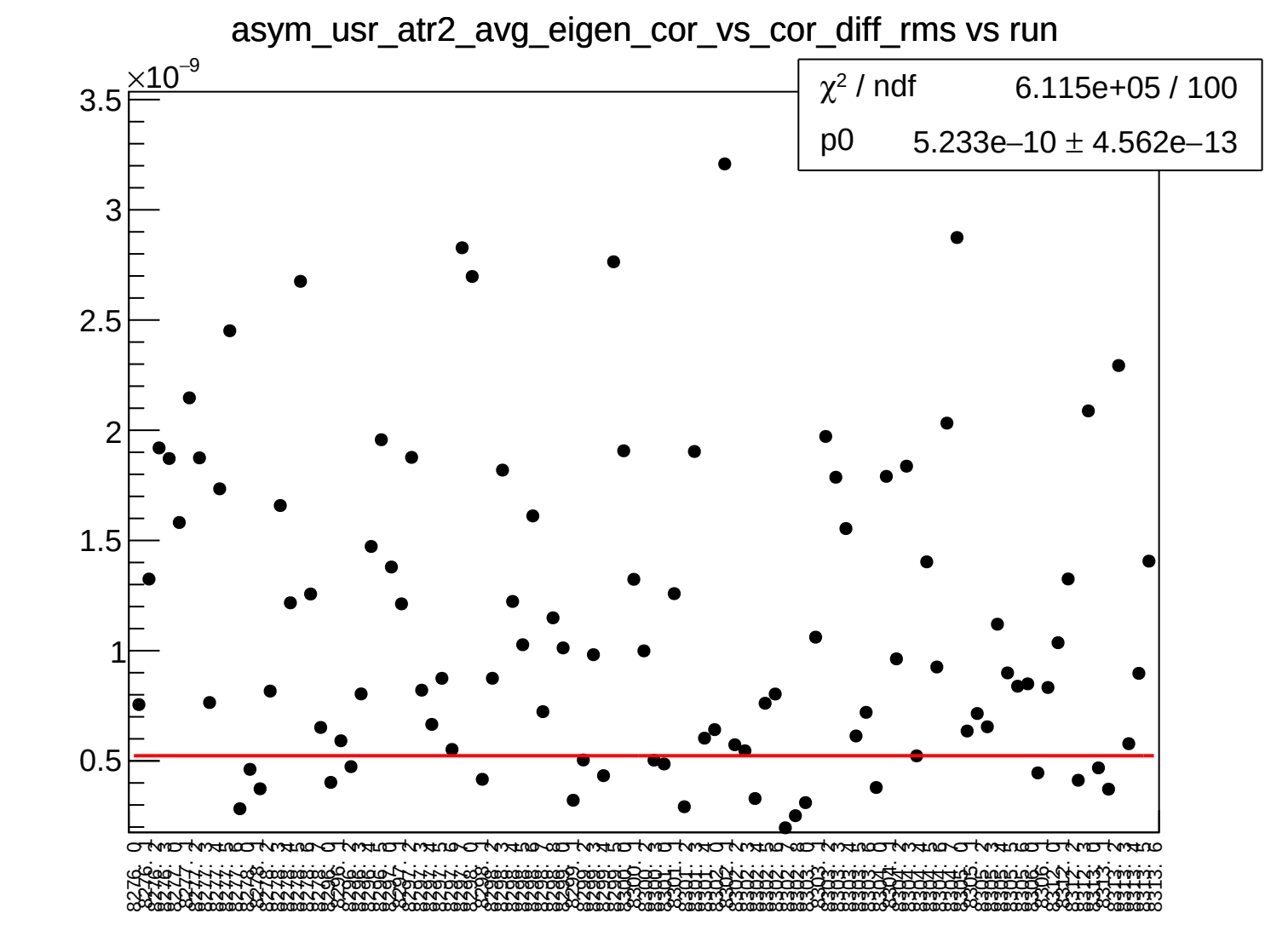

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.207e+04 / 100
p0 178.1 ± 0.13
320
300
280
260
240
220
200
180
160
140
120

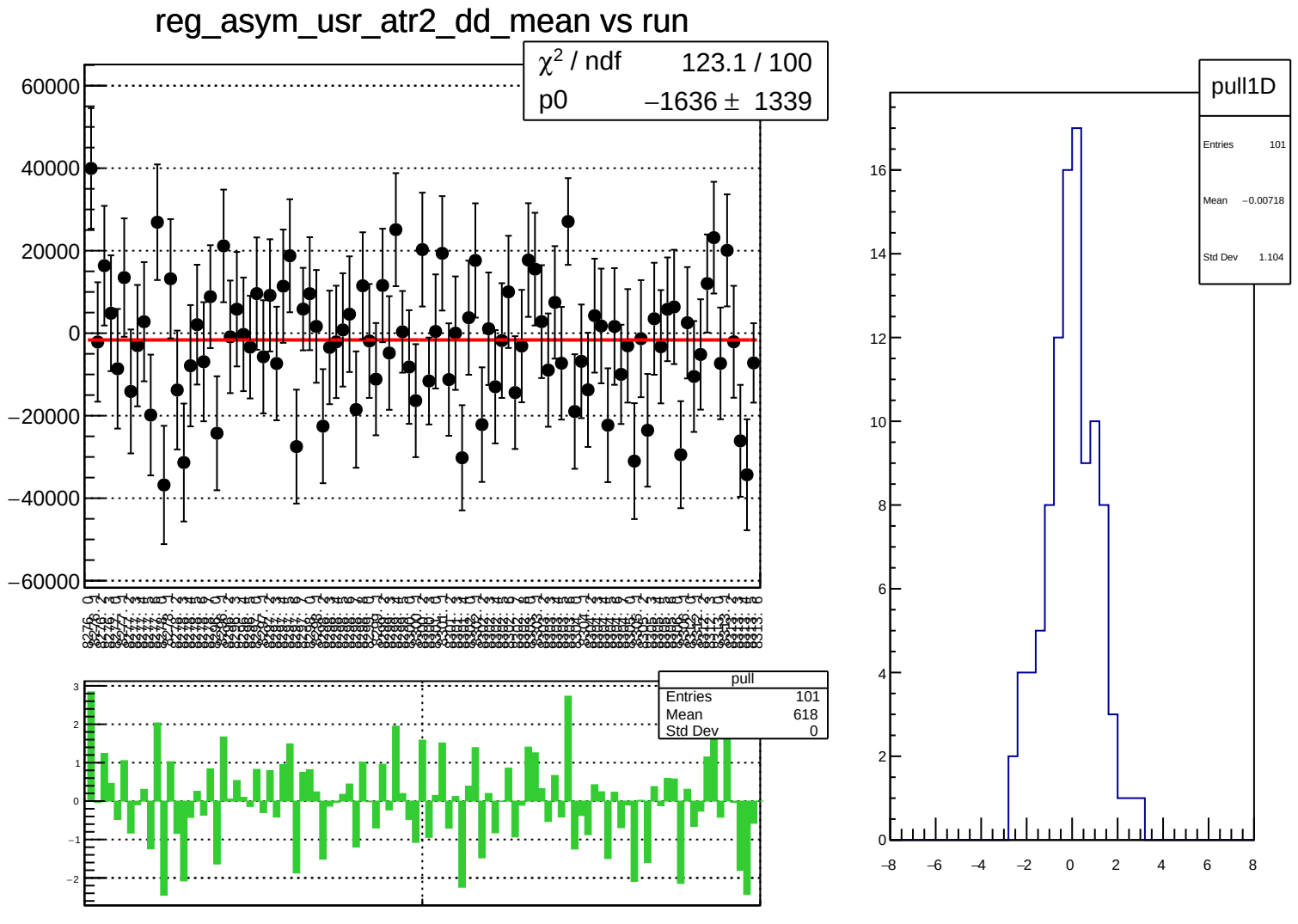

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 111.6 / 100
p0 −0.3481± 0.1839
pull
Entries 101
Mean 269.5
Std Dev 0

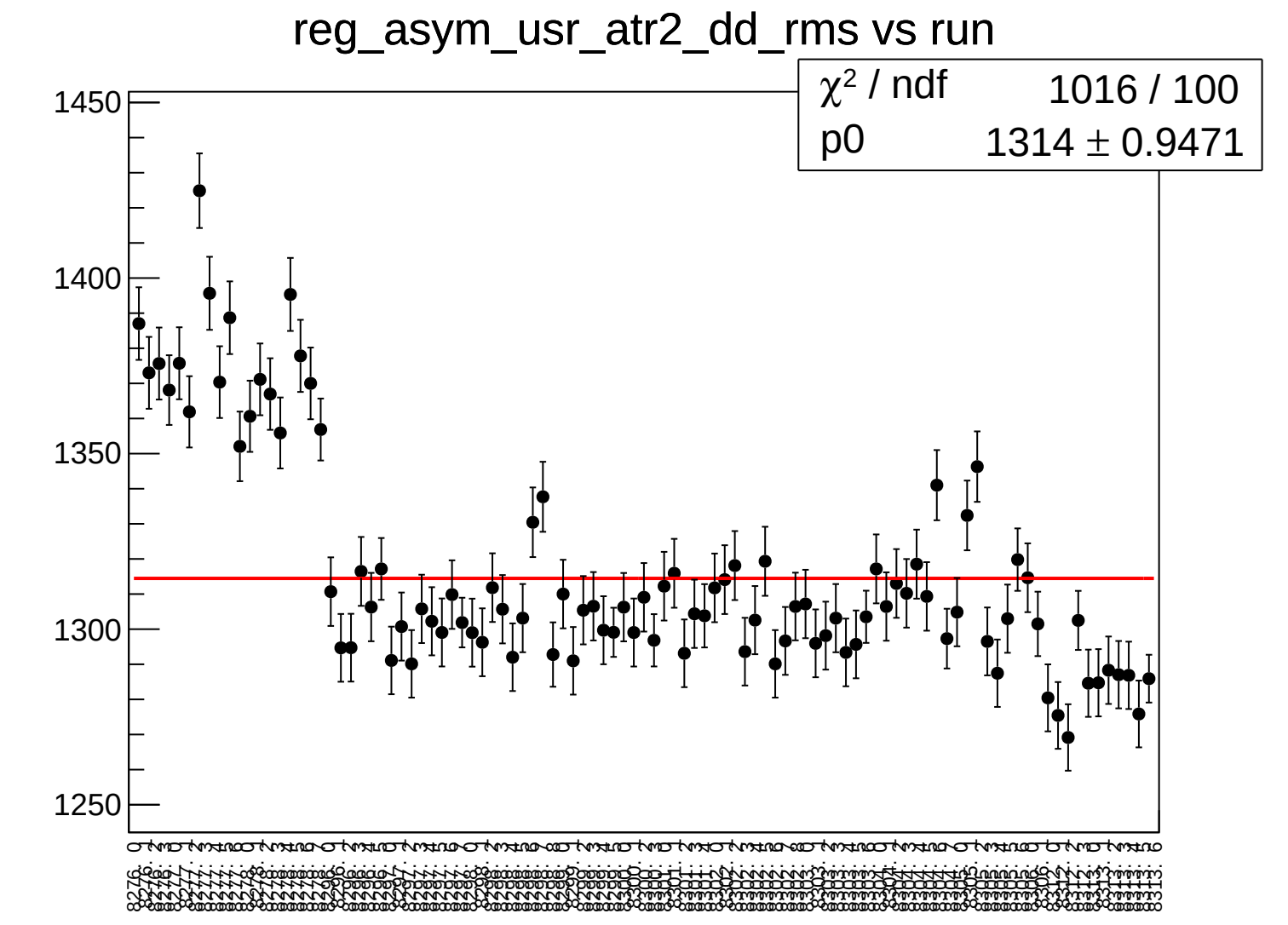

pull1D
Entries 101
Mean −0.01902
Std Dev 1.051

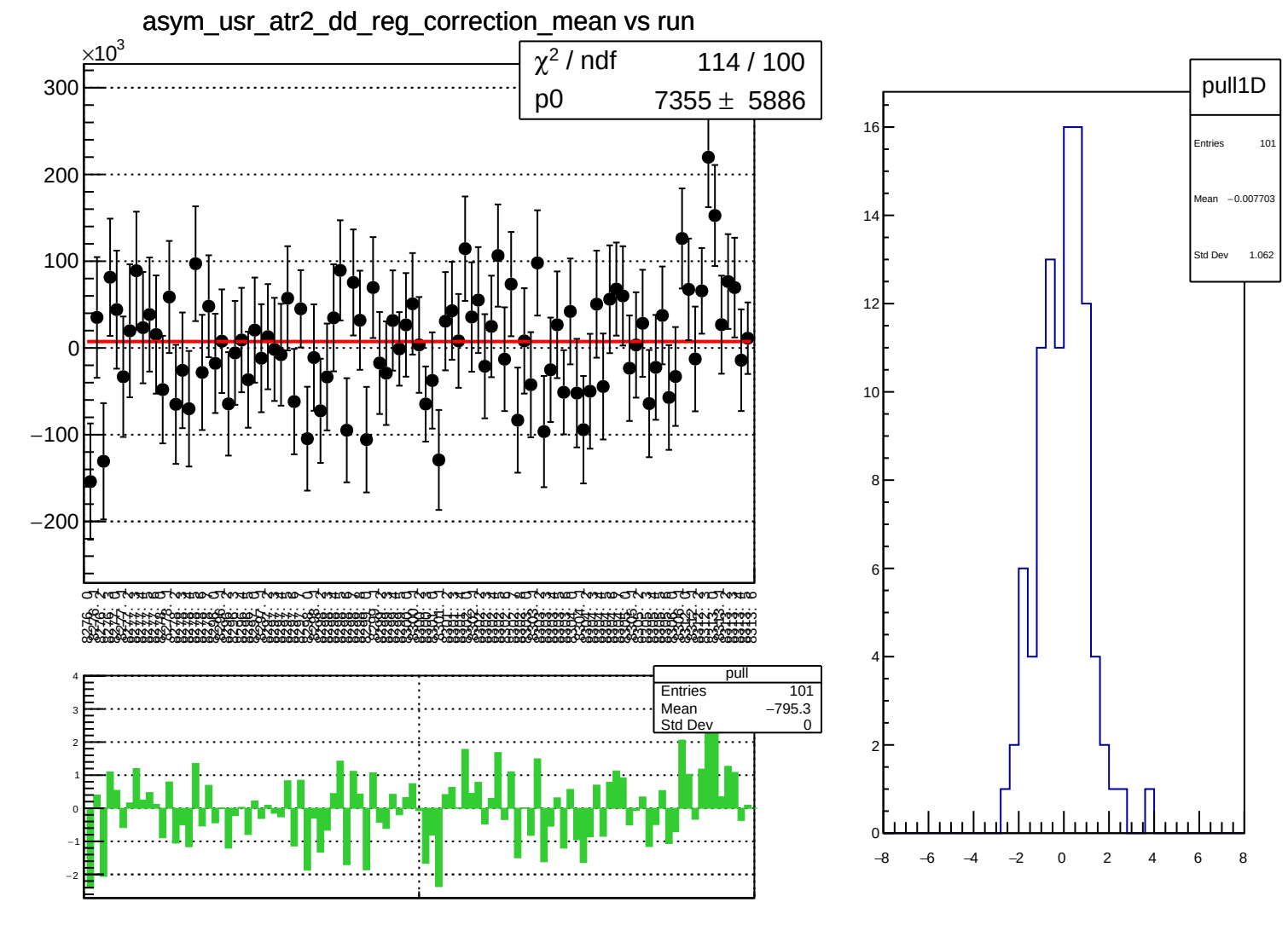

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.207e+04 / 100
p0 178.1 ± 0.13
320
300
280
260
240
220
200
180
160
140
120

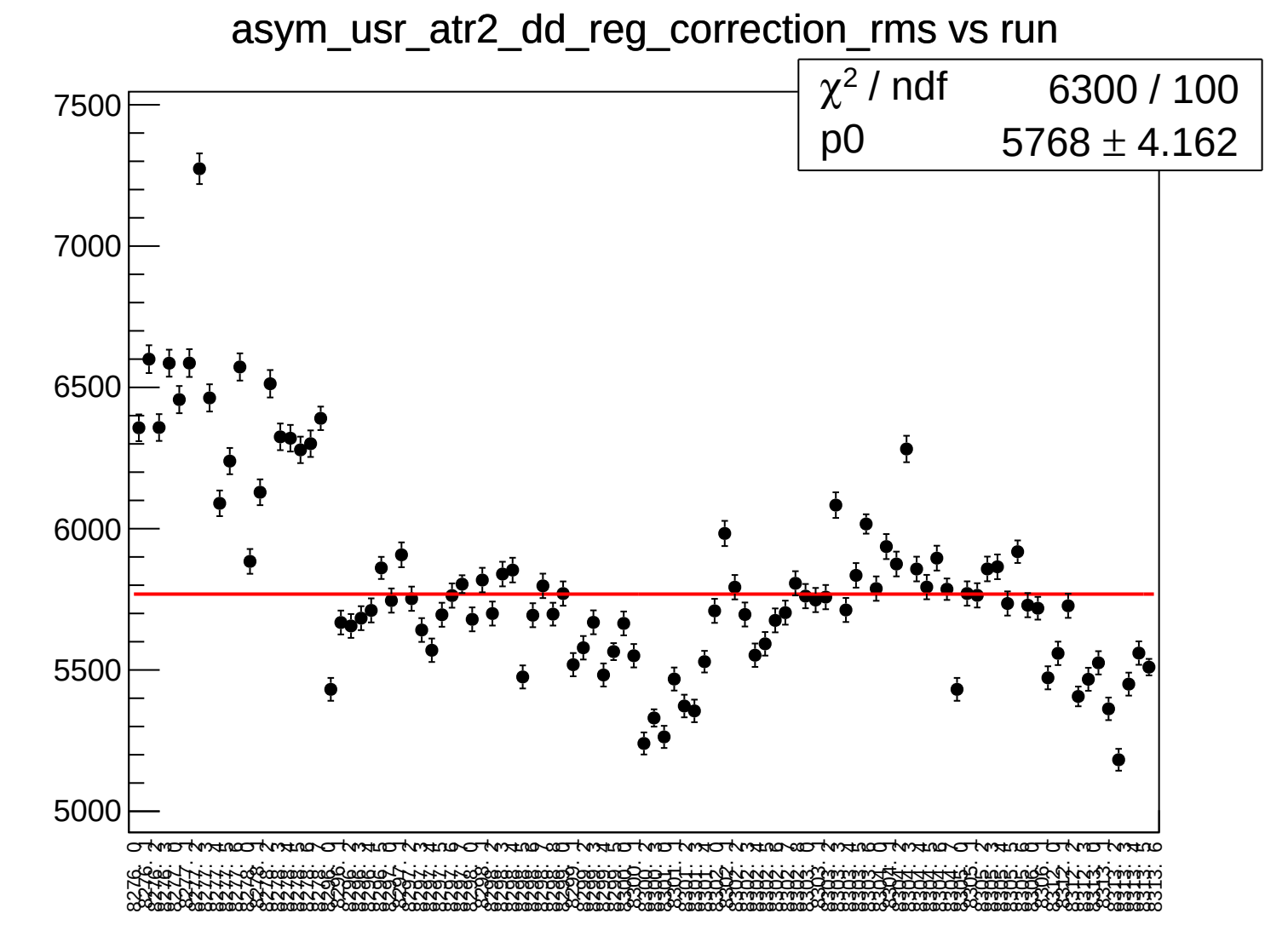

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 129.4 / 100
p0 7.064e−13 ± 6.451e−13
0.12
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 101
Mean 225.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.008503
Std Dev 1.132
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

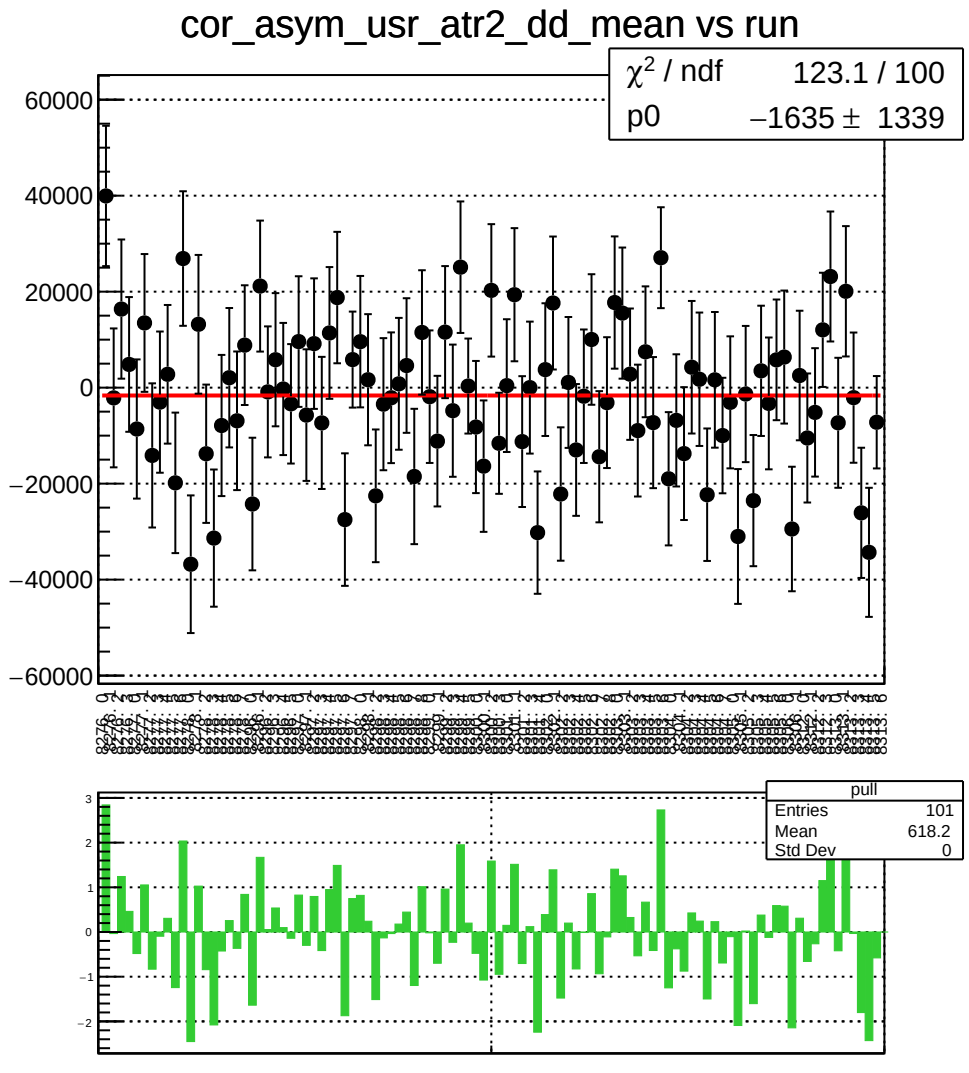

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.115e+05 / 100
p0 5.233e−10 ± 4.562e−13
3.5
3
2.5
2
1.5
1
0.5

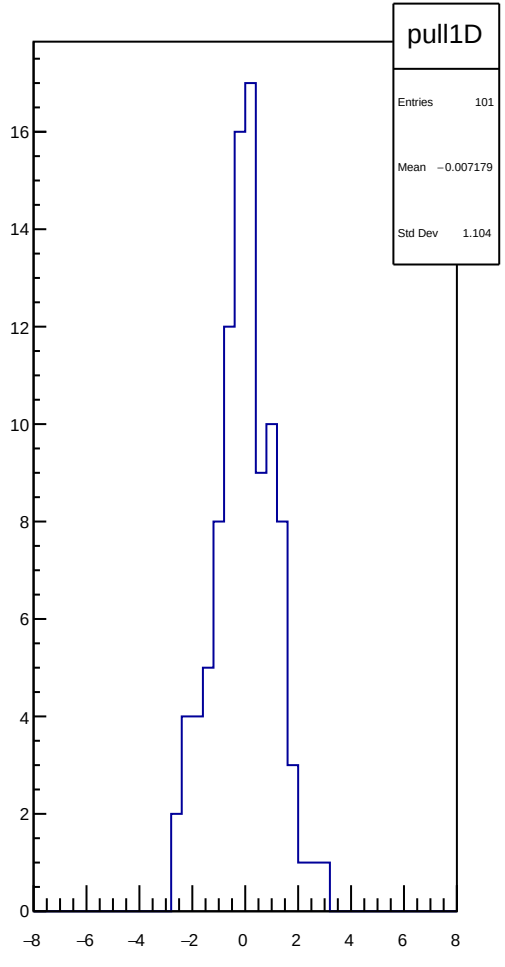

reg_asym_usr_atr2_dd_mean vs run
χ² / ndf 123.1 / 100
p0 −1636 ± 1339
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean 618
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.00718
Std Dev 1.104
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

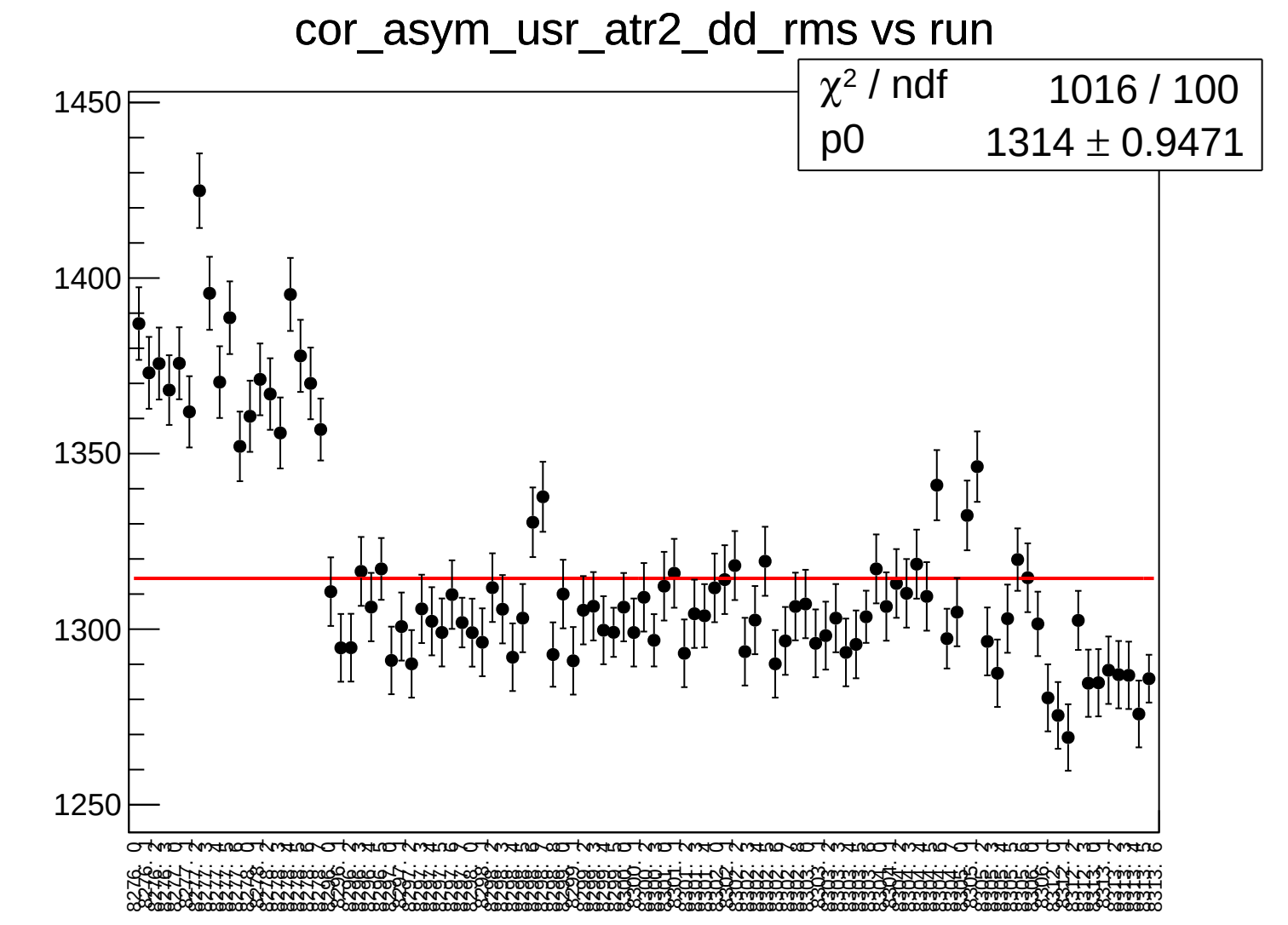

reg_asym_usr_atr2_dd_rms vs run
χ² / ndf 1016 / 100
p0 1314 ± 0.9471
1450
1400
1350
1300
1250

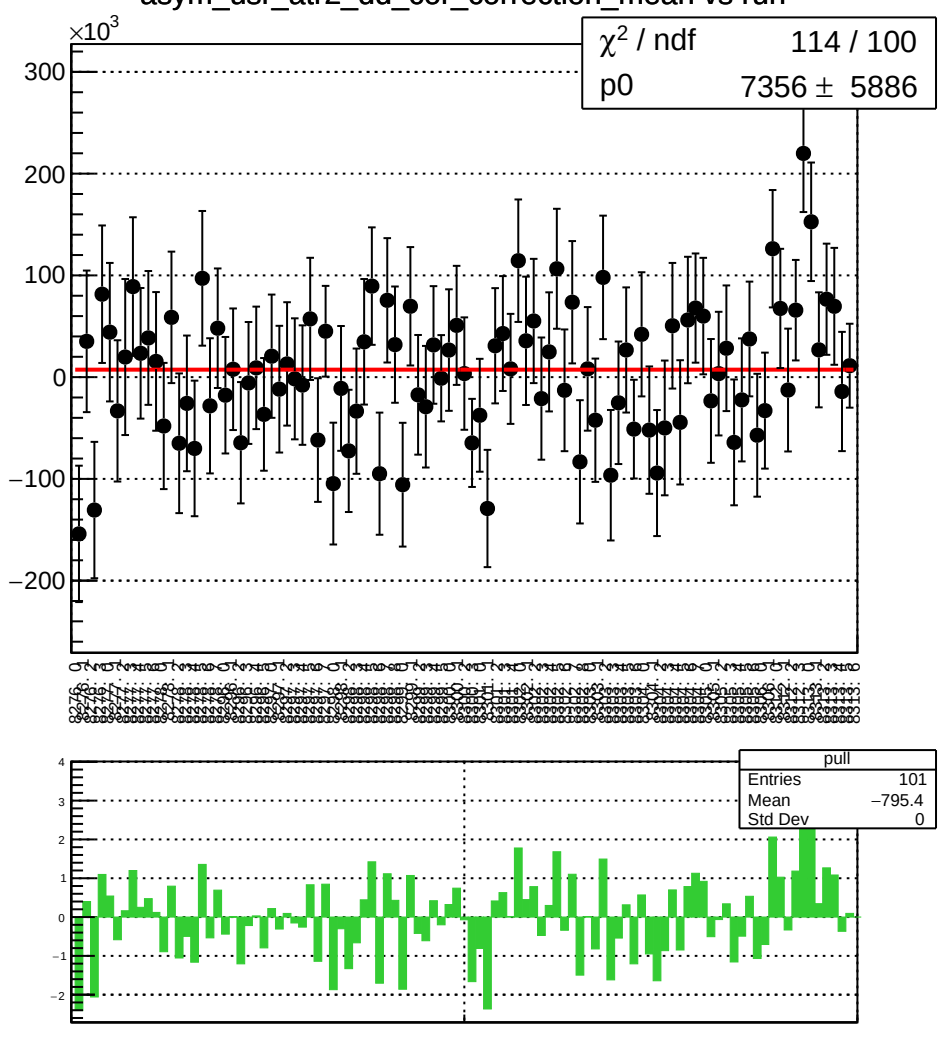

asym_usr_atr2_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 114 / 100
p0 7355 ± 5886
300
200
100
0
−100
−200
pull
Entries 101
Mean −795.3
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.007703
Std Dev 1.062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

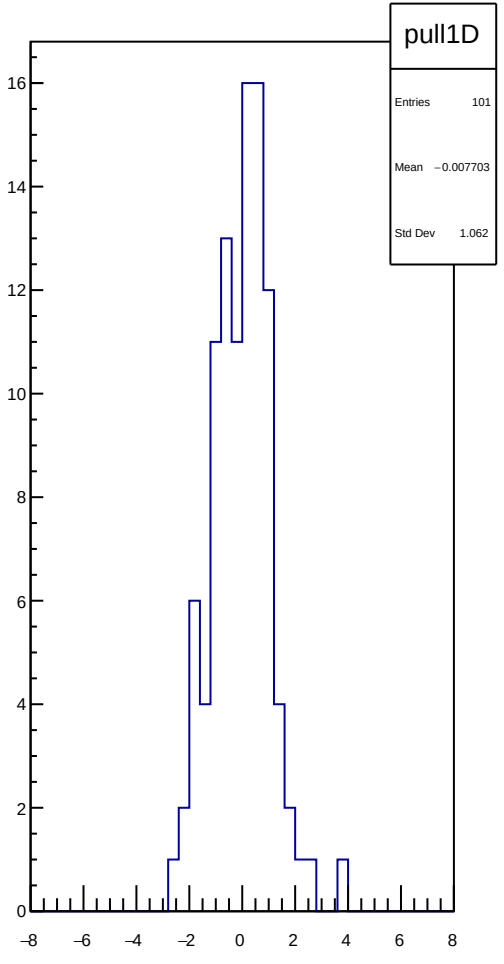

asym_usr_atr2_dd_reg_correction_rms vs run
χ^2 / ndf 6300 / 100
p0 5768 ± 4.162
7500
7000
6500
6000
5500
5000

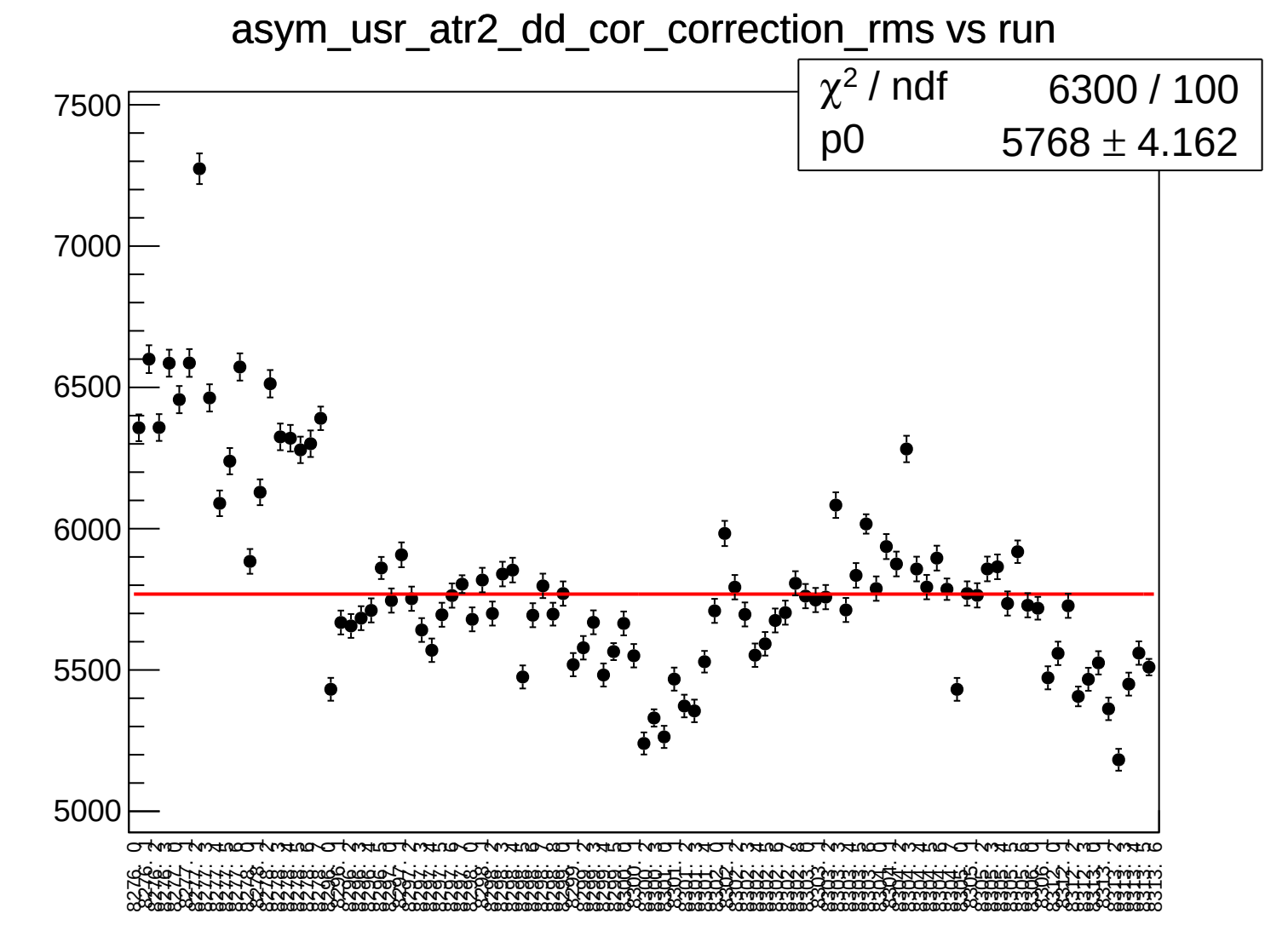

cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 123.1 / 100
p0 −1635 ± 1339
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean 618.2
Std Dev 0
3
2
1
0
−1
−2

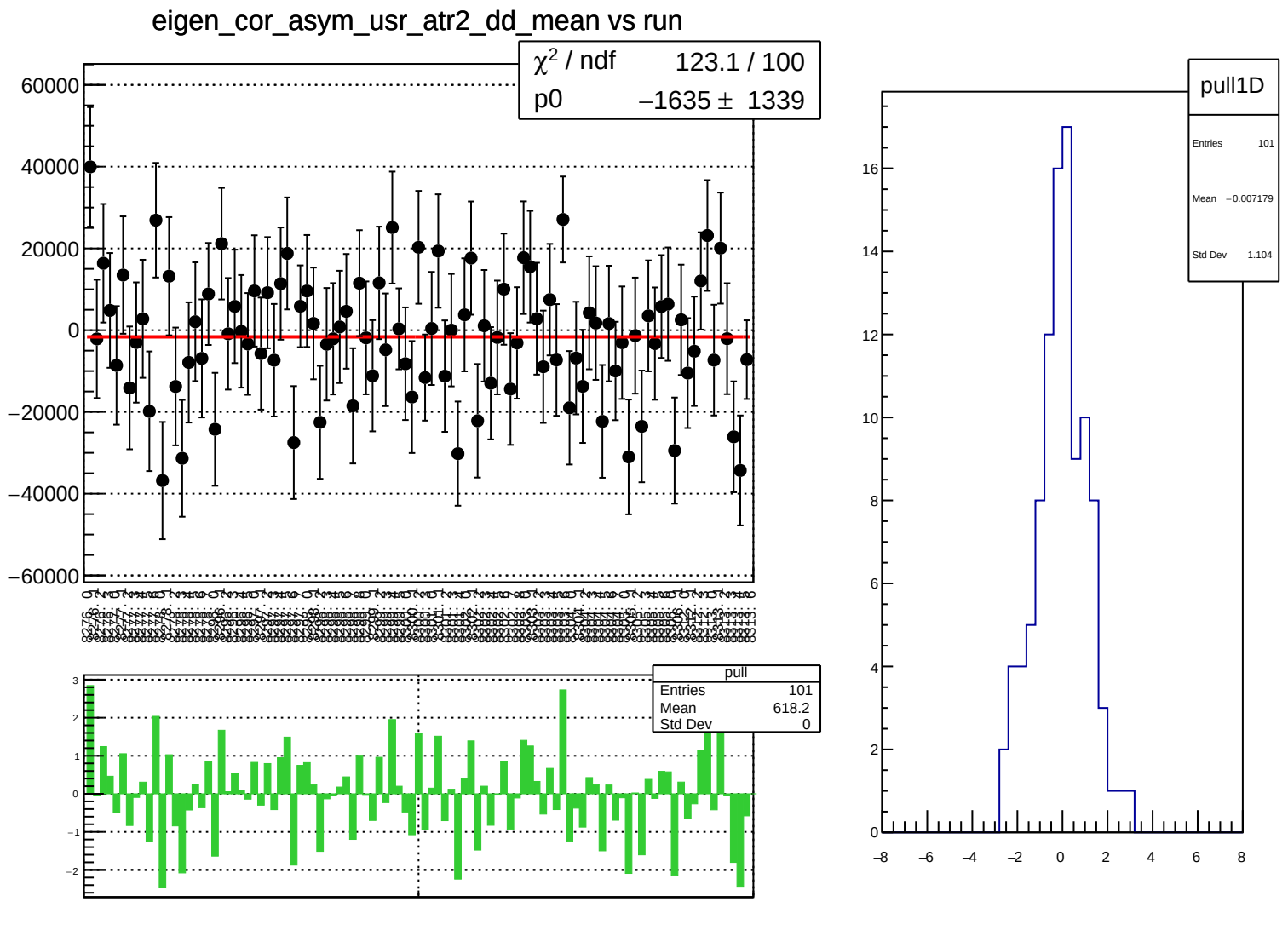

pull1D
Entries 101
Mean −0.007179
Std Dev 1.104
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

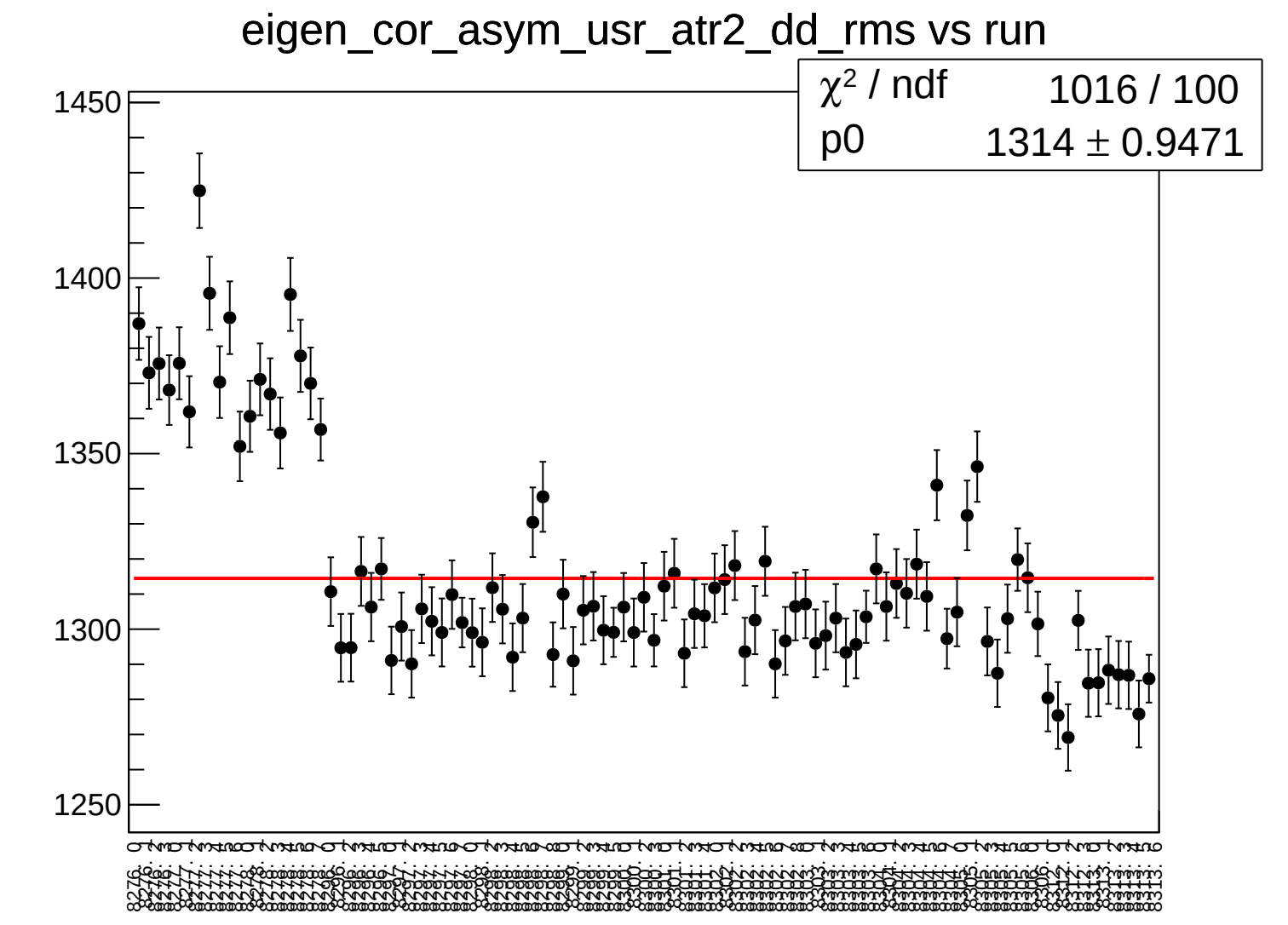

cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 1016 / 100
p0 1314 ± 0.9471
1450
1400
1350
1300
1250

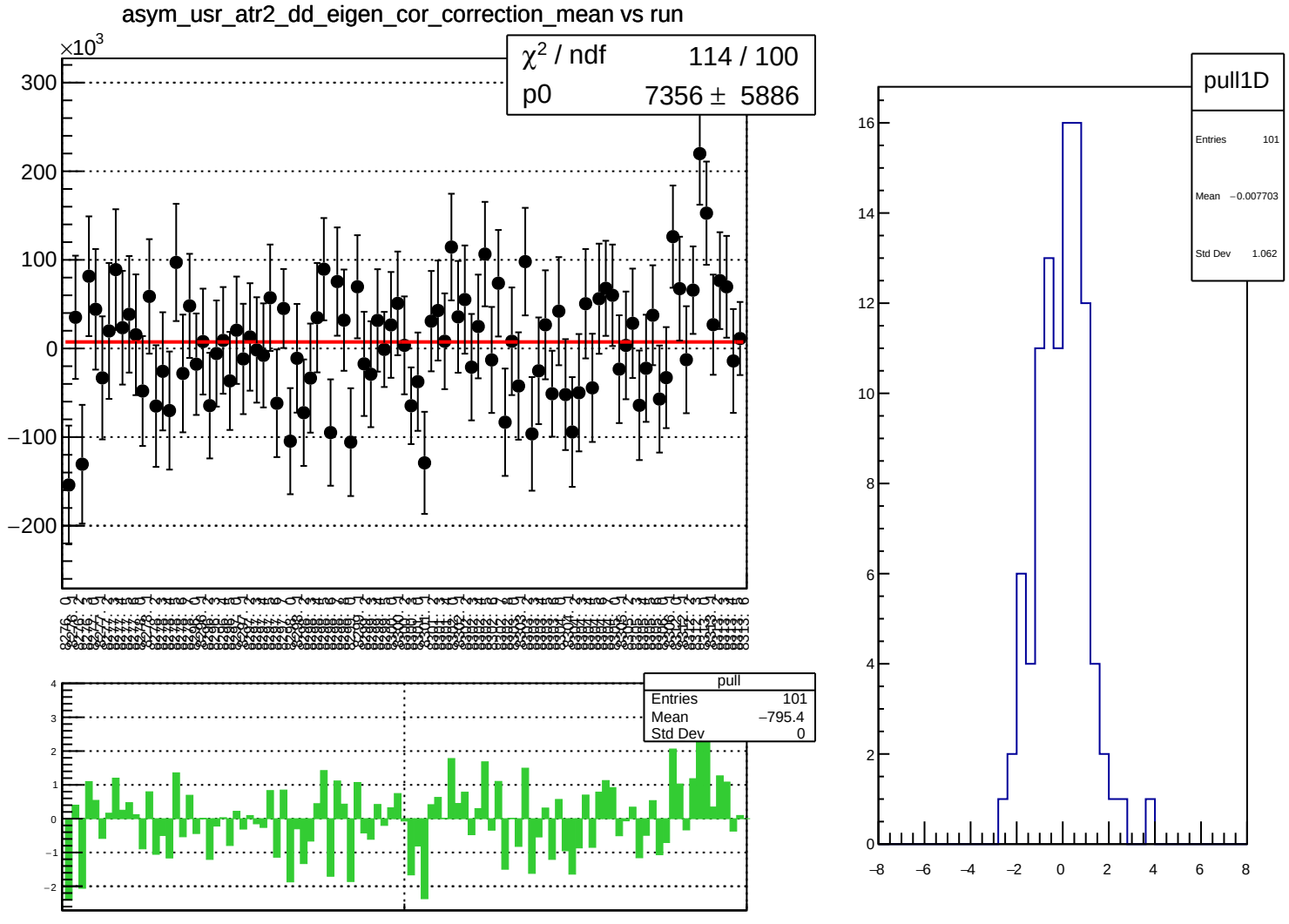

asym_usr_atr2_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 114 / 100
p0 7356 ± 5886
300
200
100
0
−100
−200
pull
Entries 101
Mean −795.4
Std Dev 0
4
3
2
1
0
−1
−2

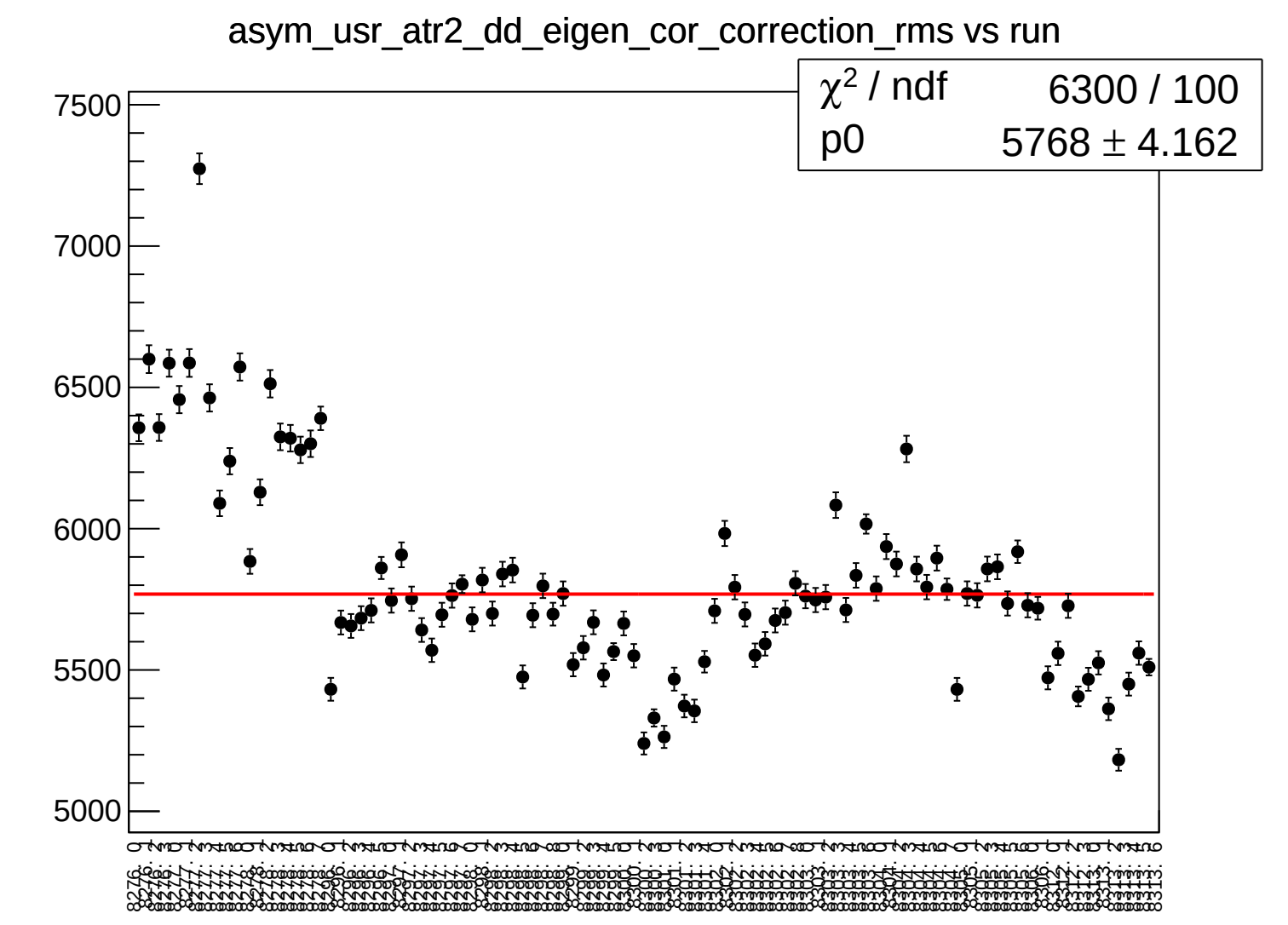

pull1D
Entries 101
Mean −0.007703
Std Dev 1.062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

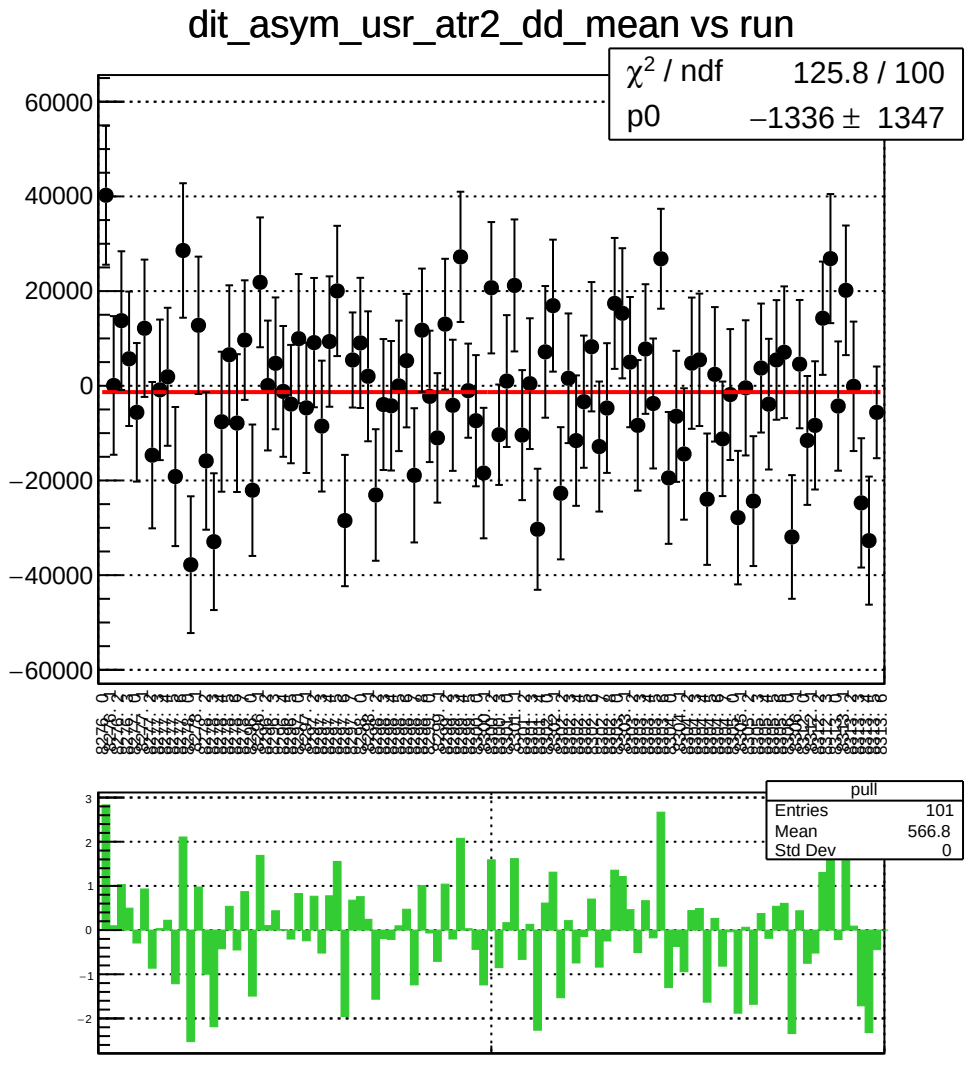

asym_usr_atr2_dd_cor_correction_rms vs run
χ² / ndf 6300 / 100
p0 5768 ± 4.162
7500
7000
6500
6000
5500
5000

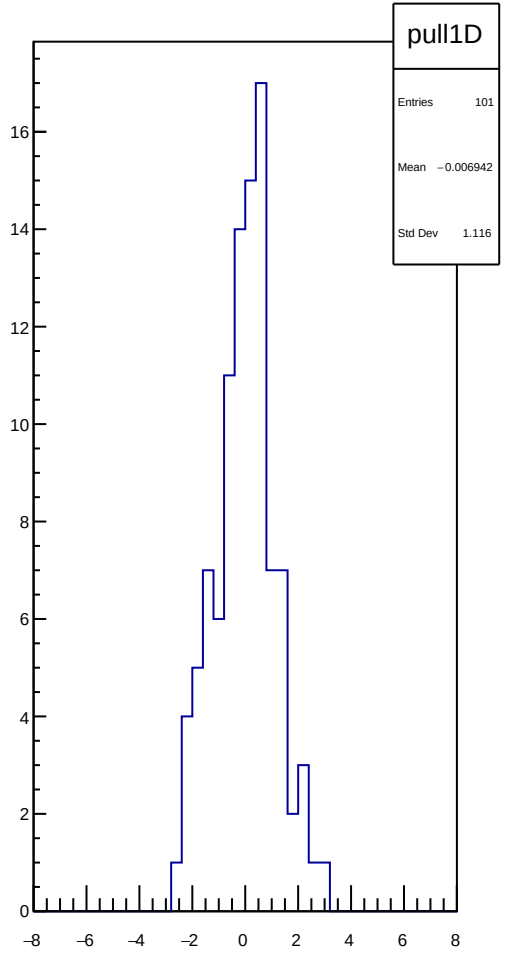

eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 123.1 / 100
p0 −1635 ± 1339
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean 618.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.007179
Std Dev 1.104
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

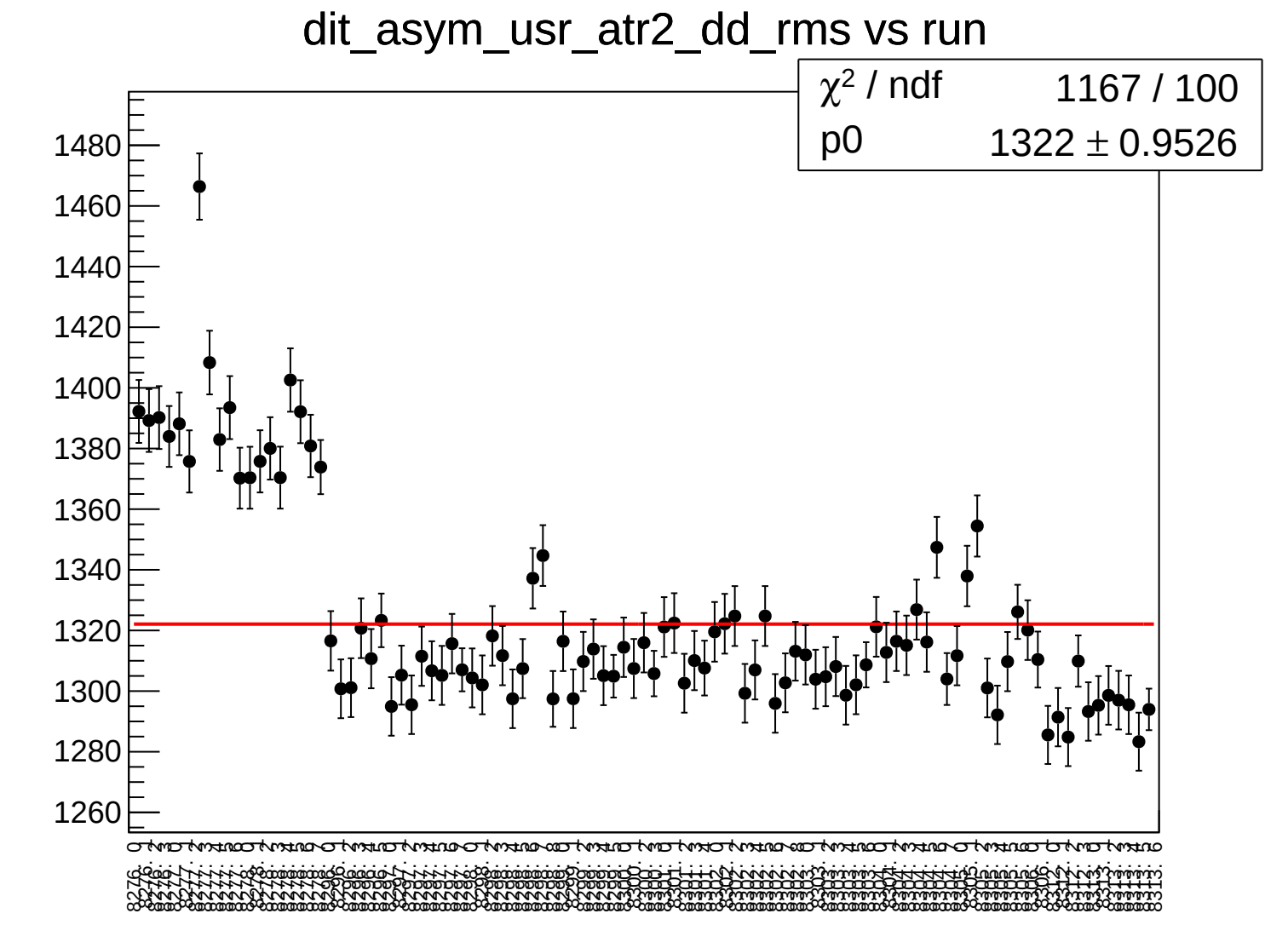

eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 1016 / 100
p0 1314 ± 0.9471
1450
1400
1350
1300
1250

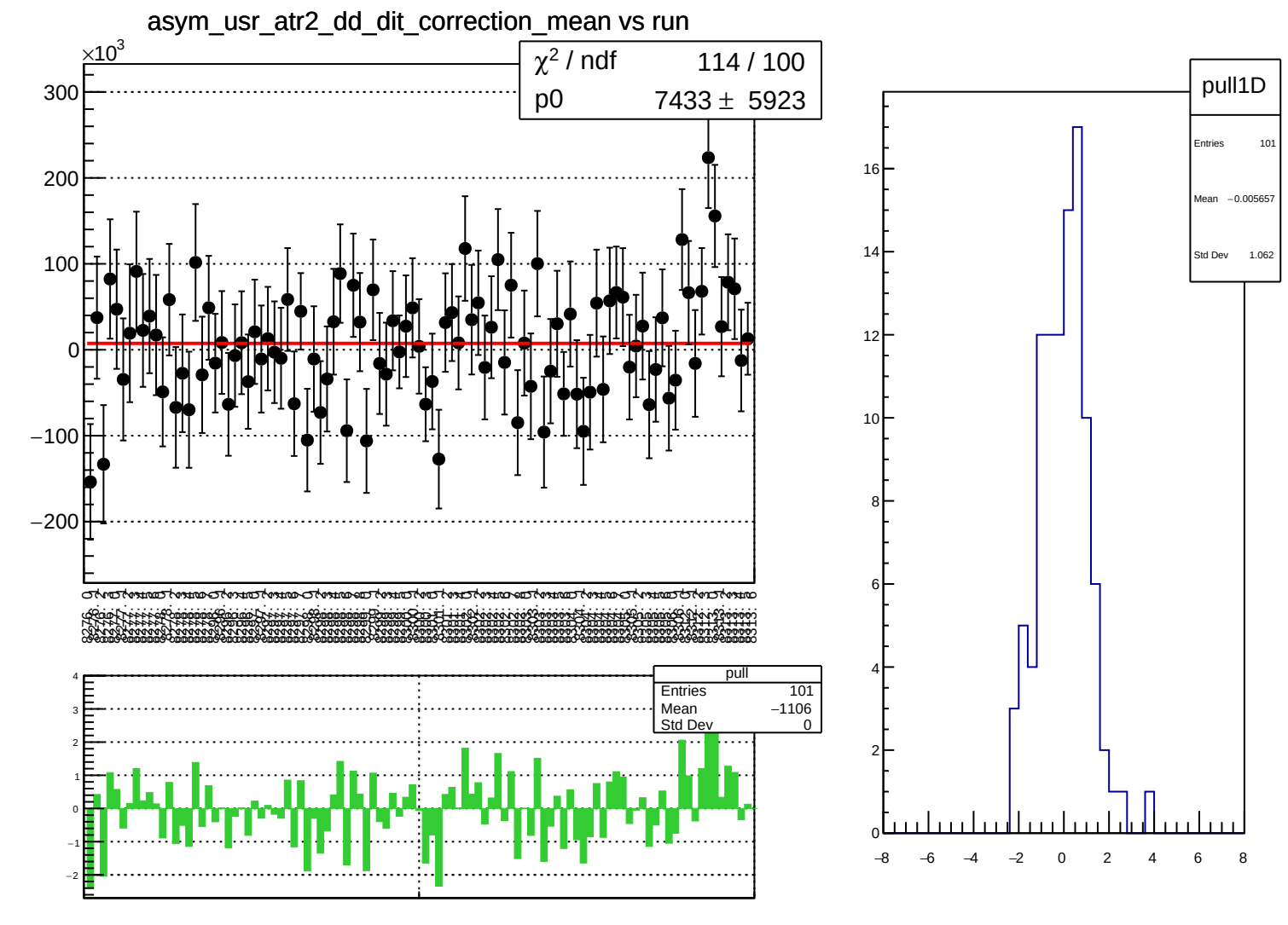

asym_usr_atr2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 114 / 100
p0 7356 ± 5886
300
200
100
0
−100
−200
pull
Entries 101
Mean −795.4
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.007703
Std Dev 1.062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

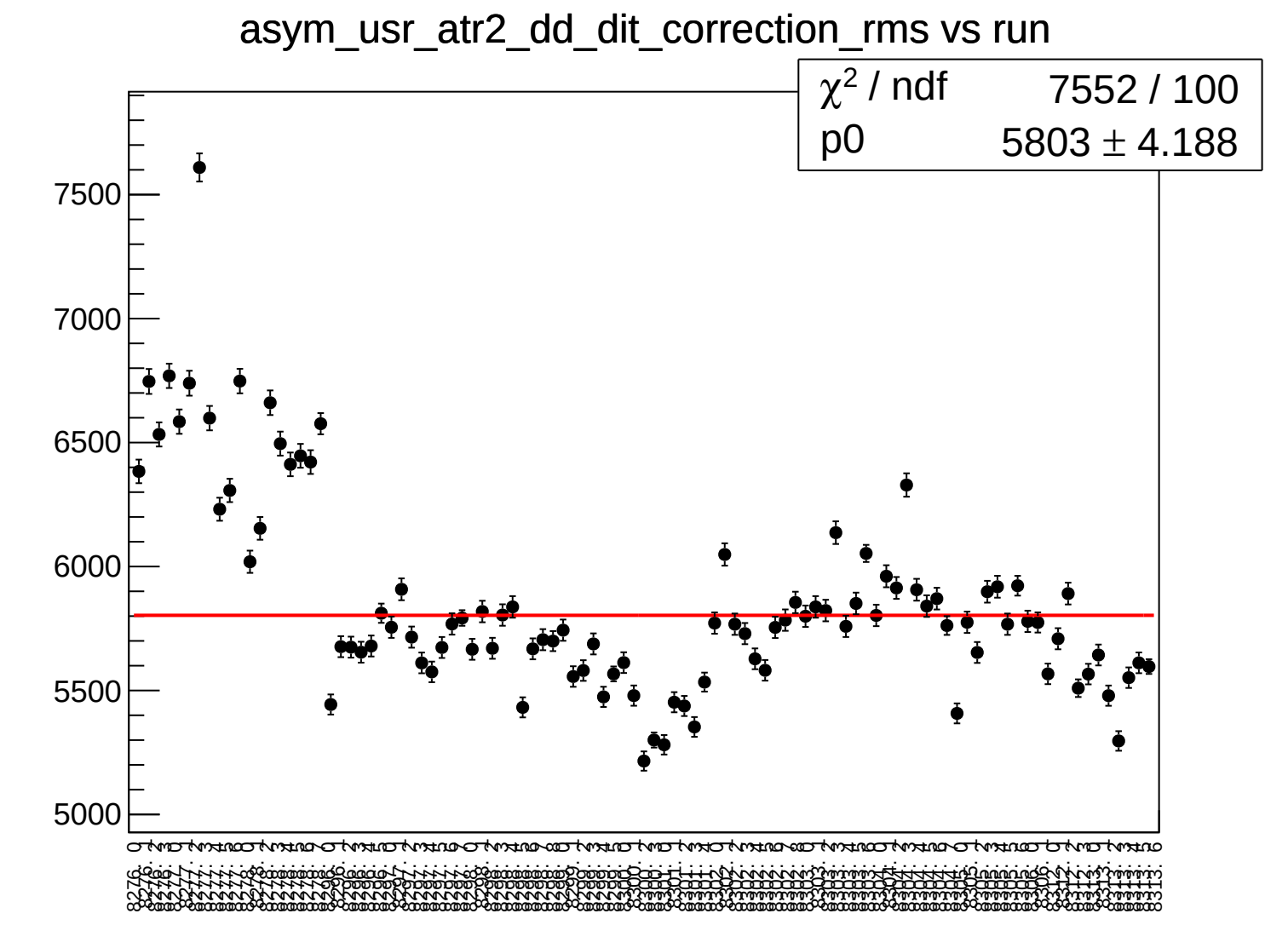

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 6300 / 100
p0 5768 ± 4.162
7500
7000
6500
6000
5500
5000

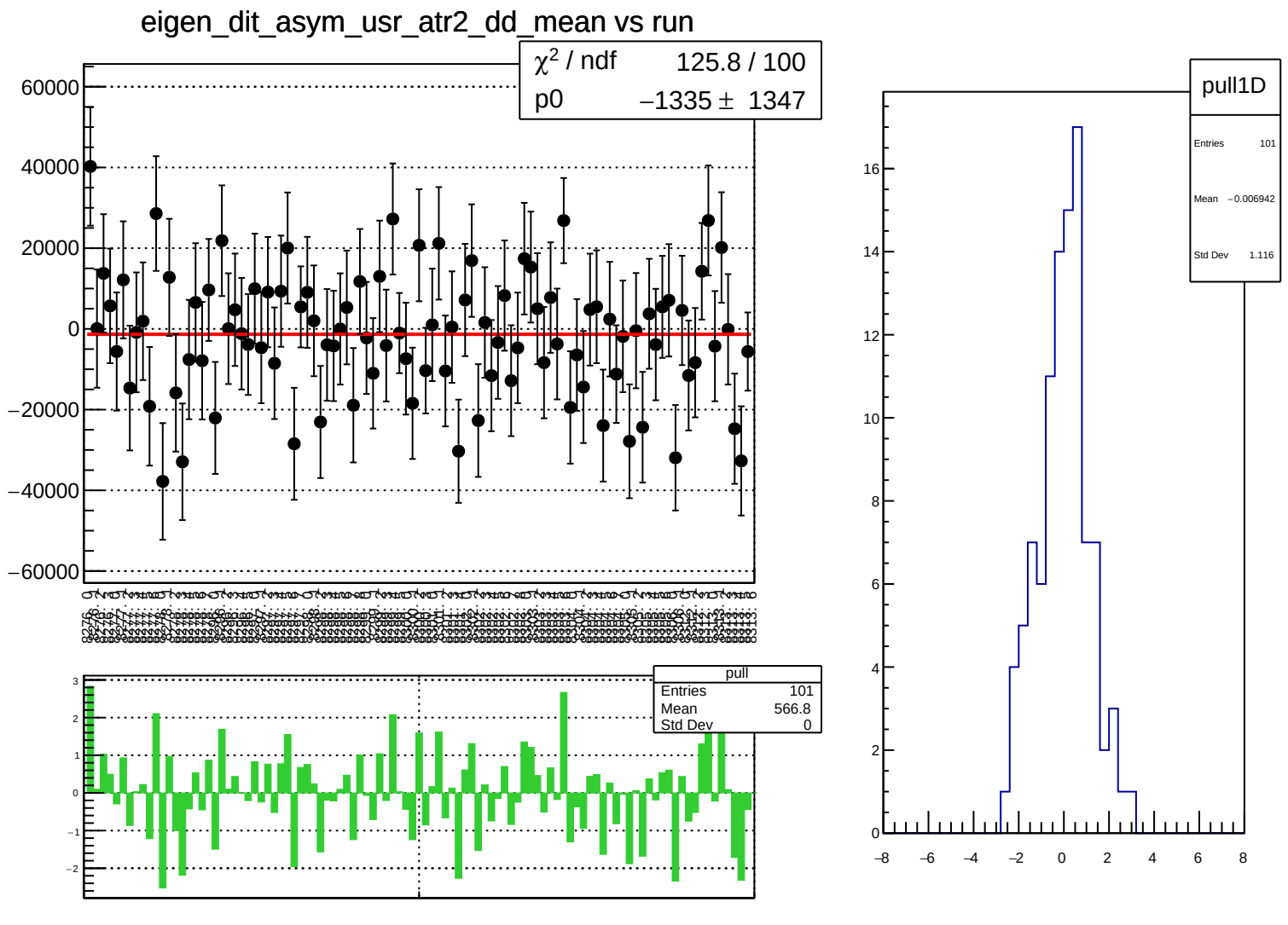

dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 125.8 / 100
p0 −1336 ± 1347
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean 566.8
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 101
Mean −0.006942
Std Dev 1.116
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

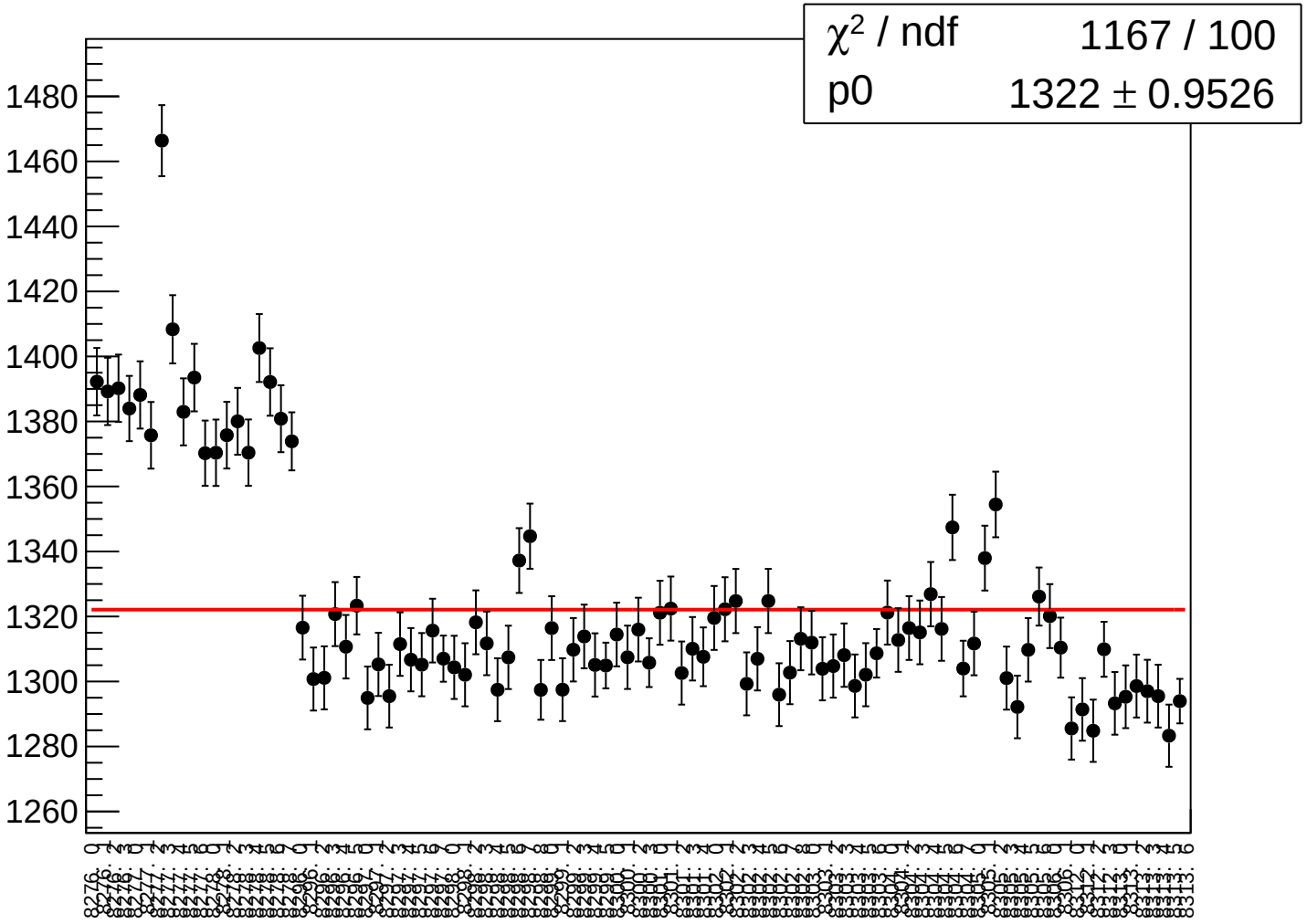

dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 1167 / 100
p0 1322 ± 0.9526
1480
1460
1440
1420
1400
1380
1360
1340
1320
1300
1280
1260

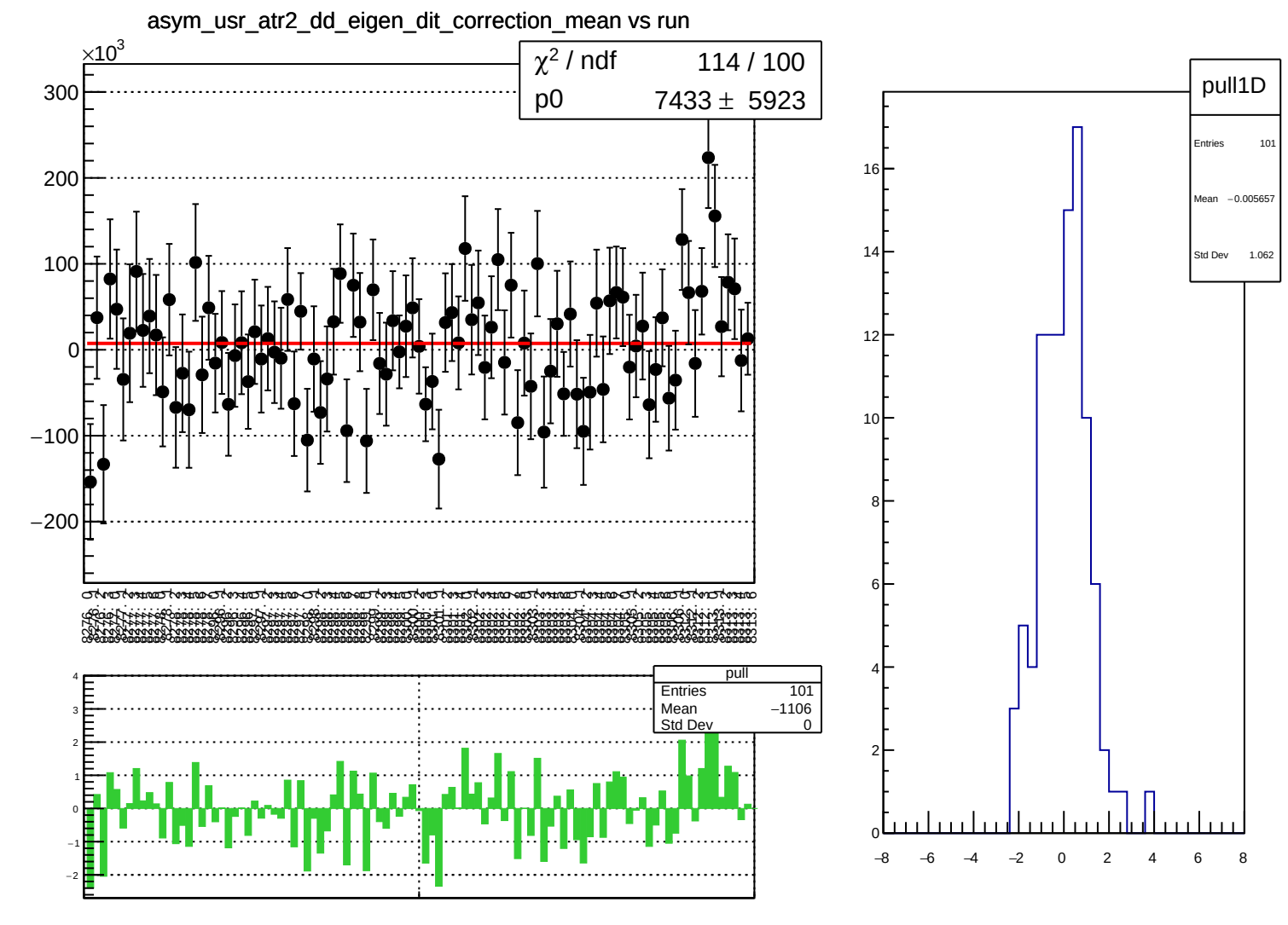

asym_usr_atr2_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 114 / 100
p0 7433 ± 5923
300
200
100
0
−100
−200
pull
Entries 101
Mean −1106
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.005657
Std Dev 1.062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

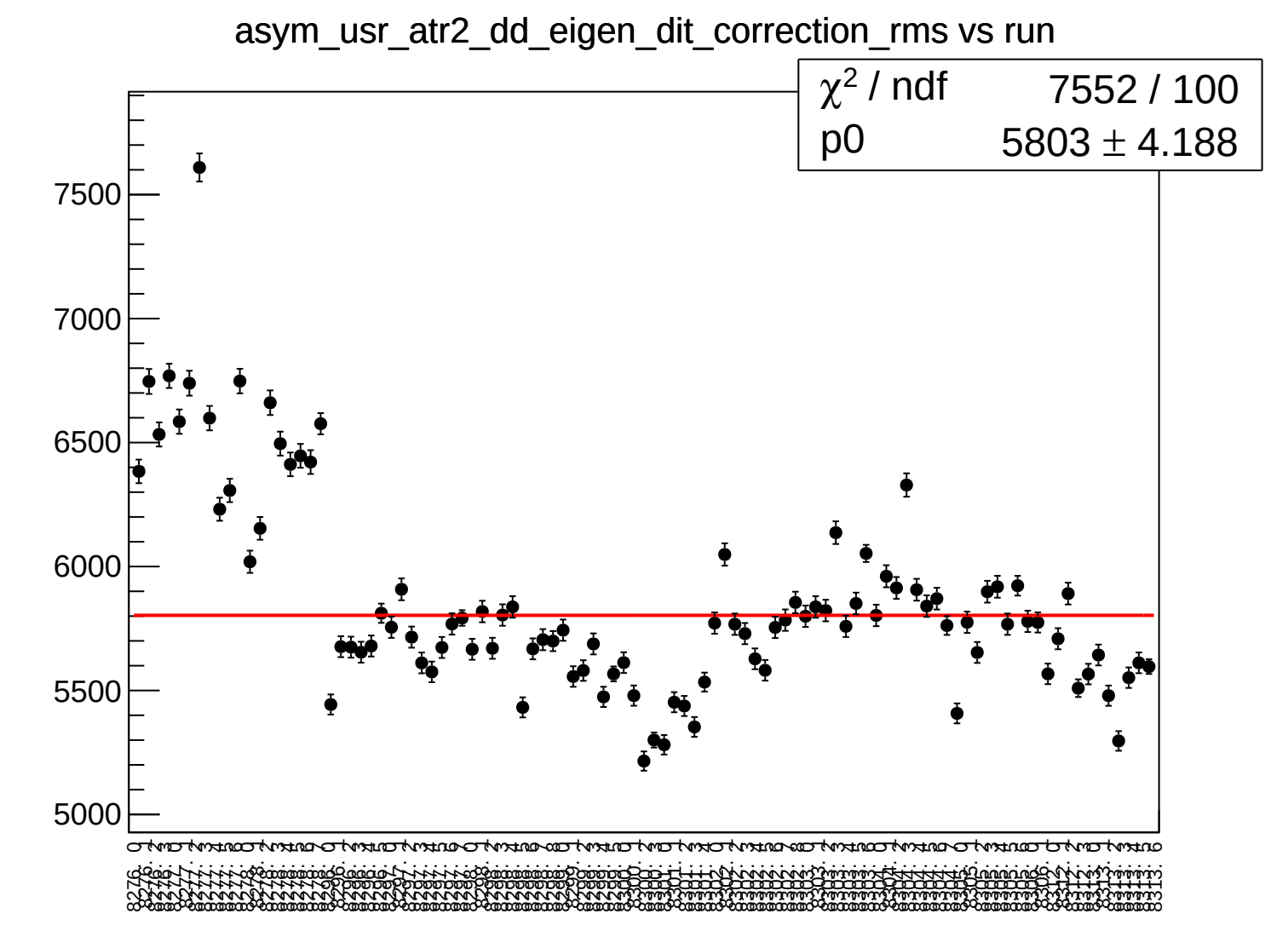

asym_usr_atr2_dd_dit_correction_rms vs run
χ² / ndf 7552 / 100
p0 5803 ± 4.188
7500
7000
6500
6000
5500
5000

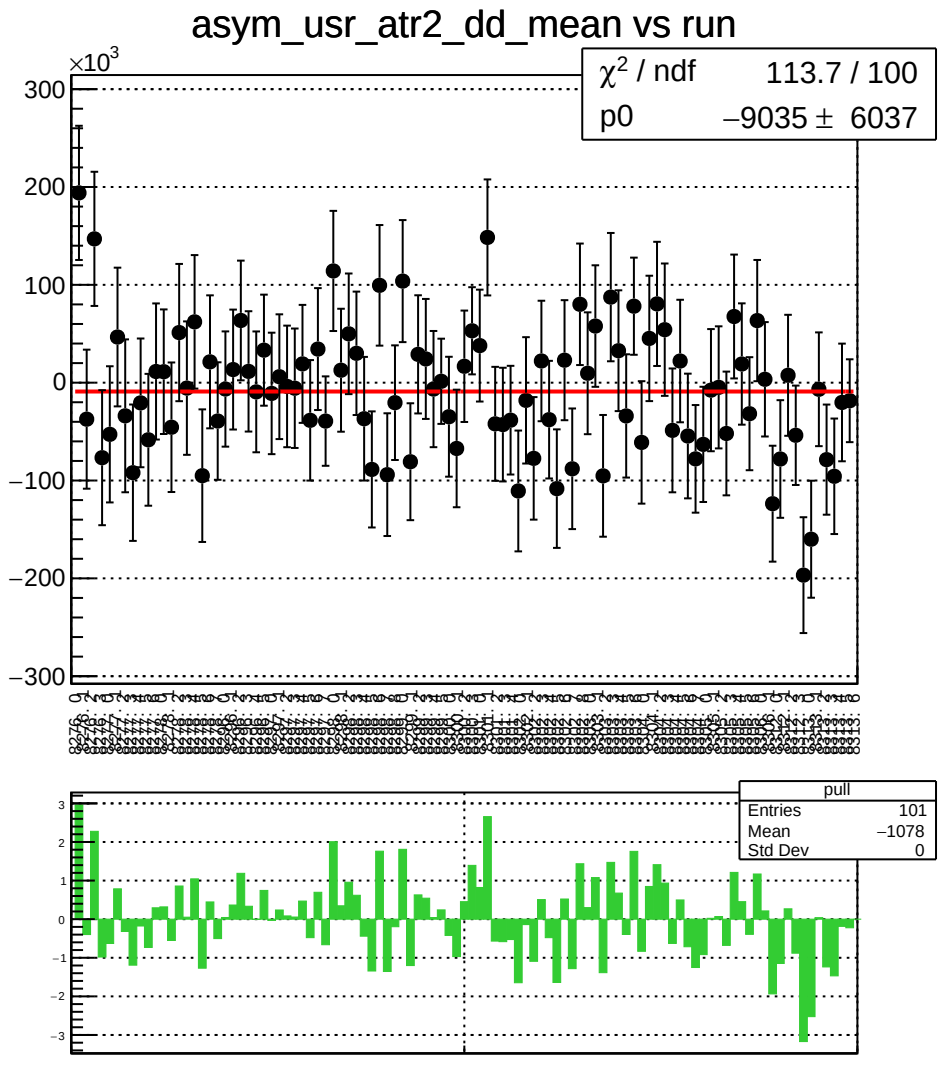

eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 125.8 / 100
p0 −1335 ± 1347
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean 566.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.006942
Std Dev 1.116
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

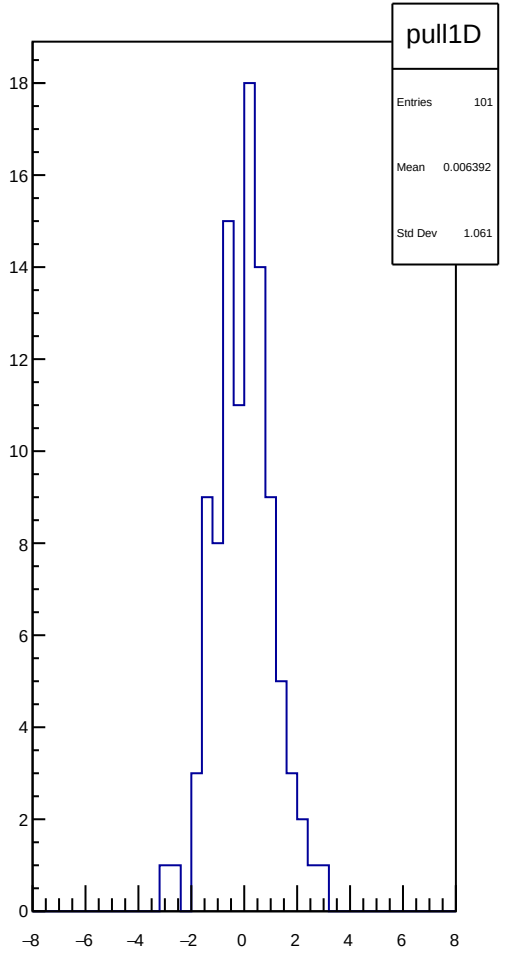
eigen_dit_asym_usr_atr2_dd_rms vs run

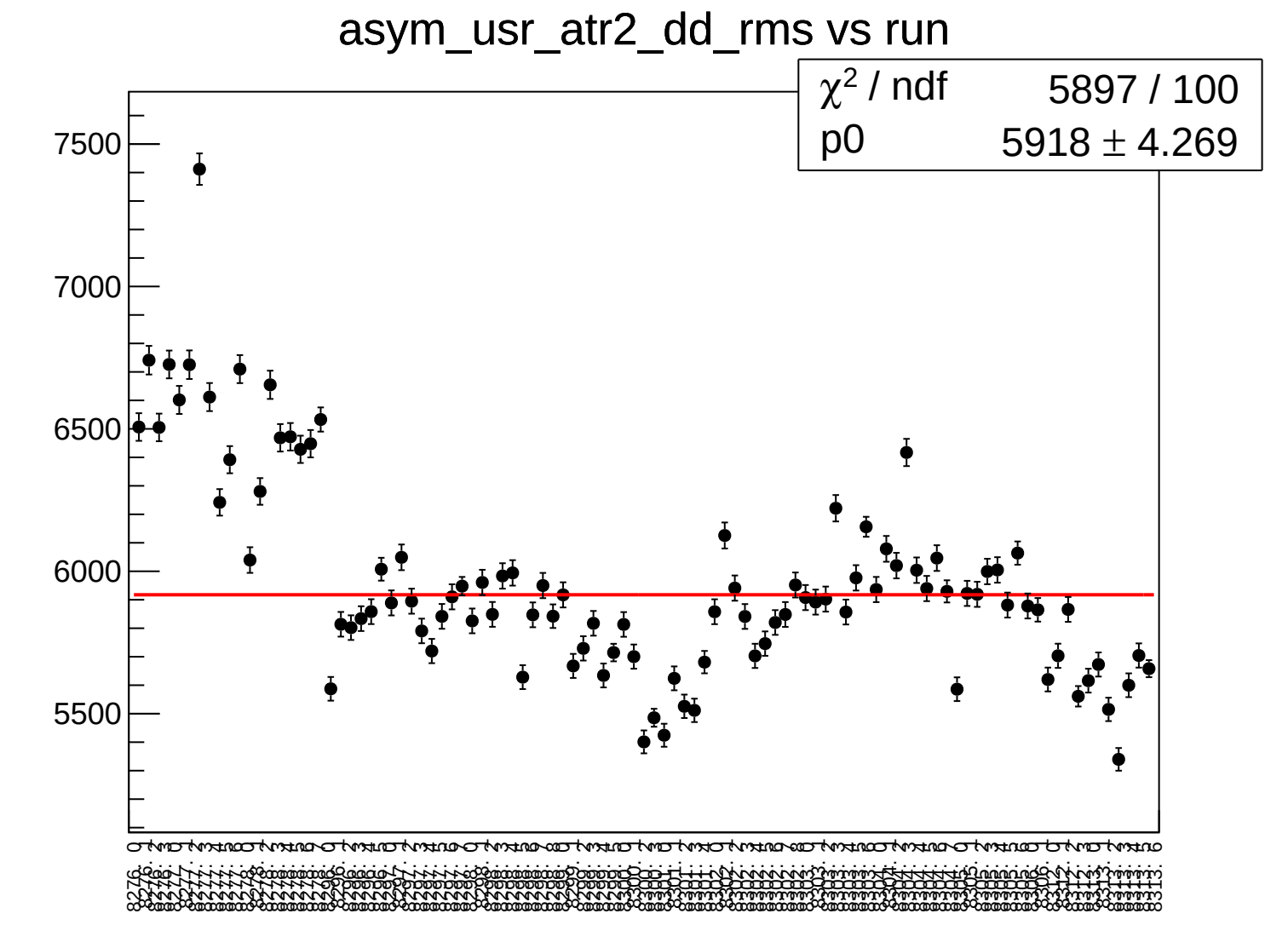


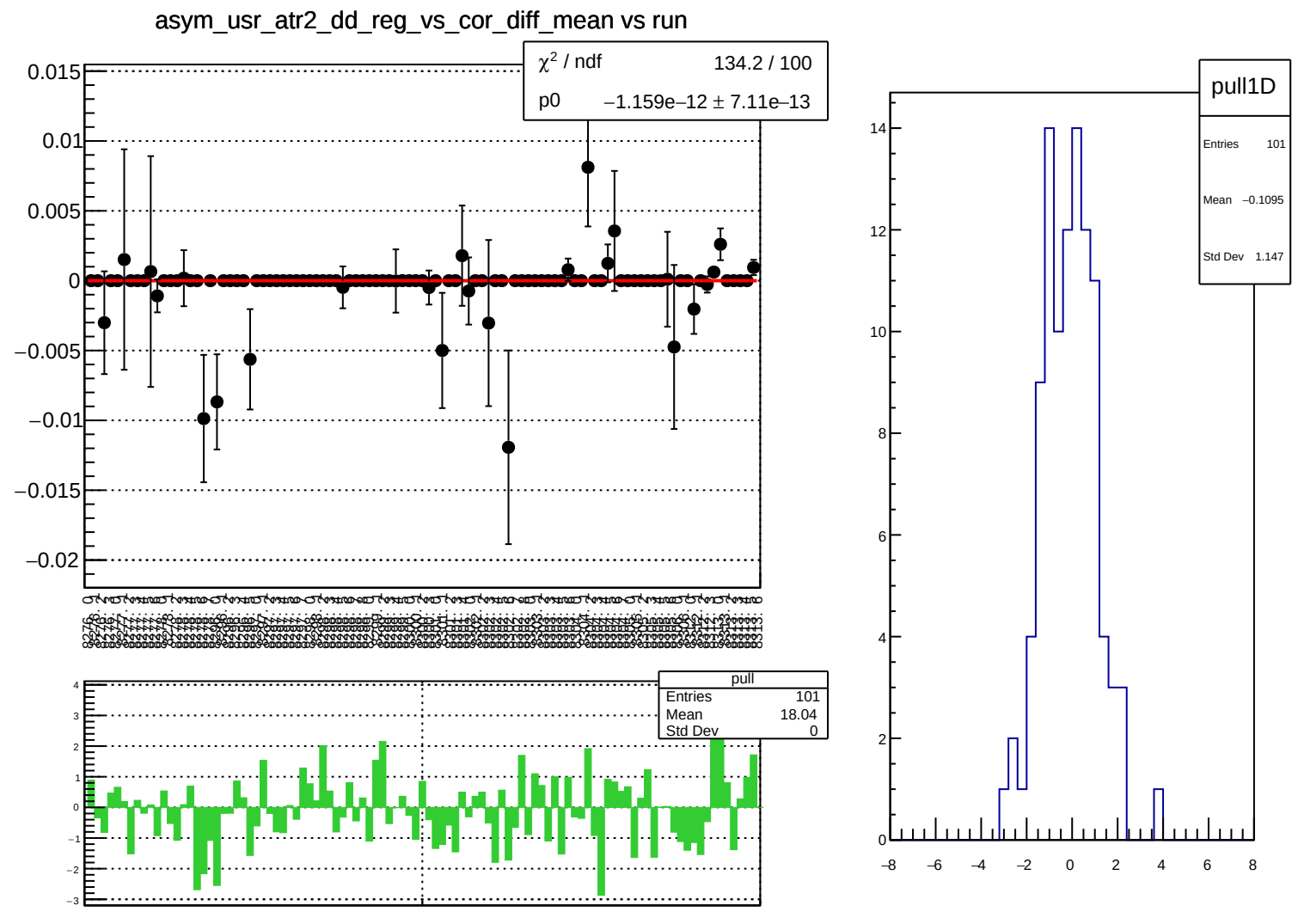

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 114 / 100
p0 7433 ± 5923
300
200
100
0
−100
−200
pull
Entries 101
Mean −1106
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.005657
Std Dev 1.062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

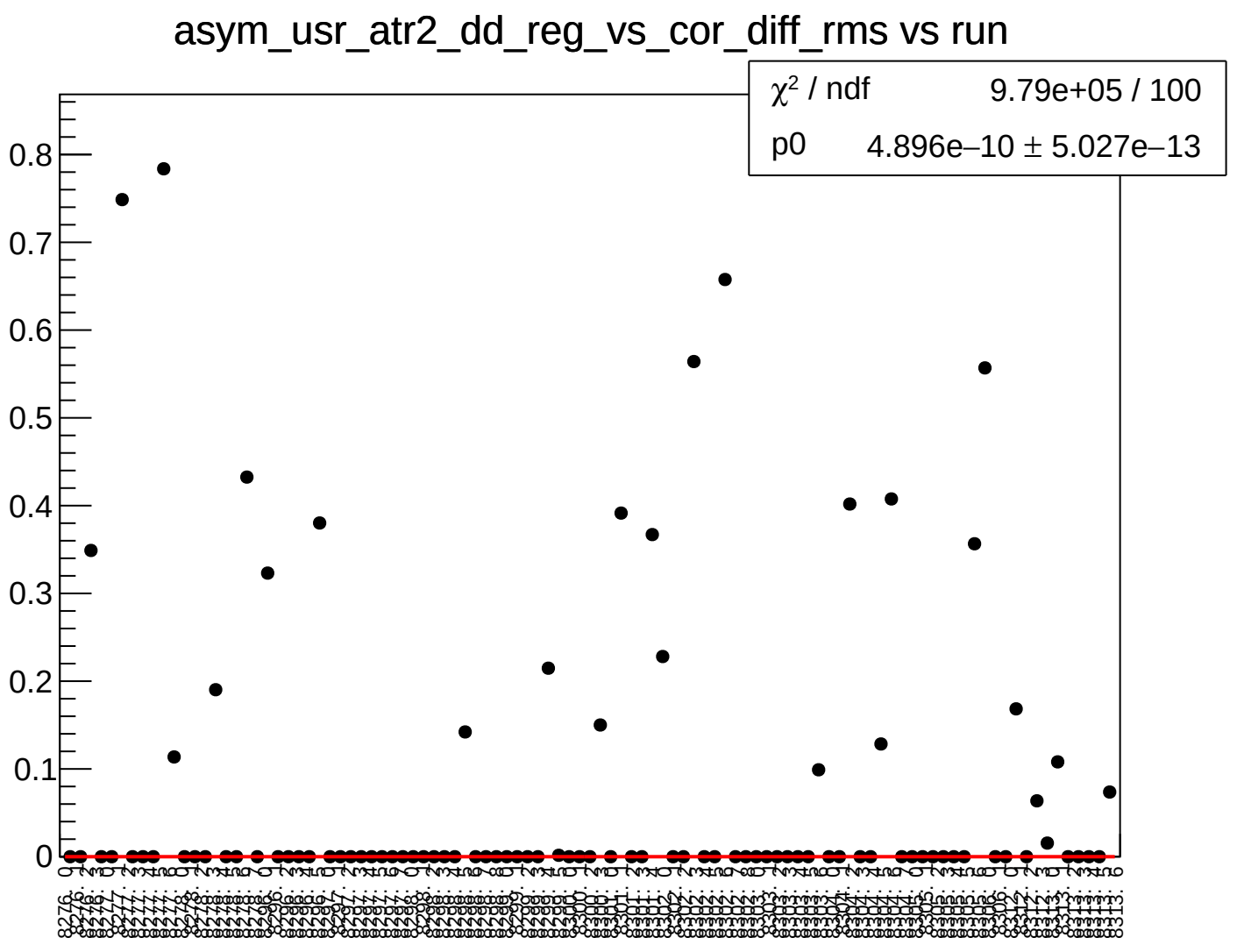

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ² / ndf 7552 / 100
p0 5803 ± 4.188
7500
7000
6500
6000
5500
5000

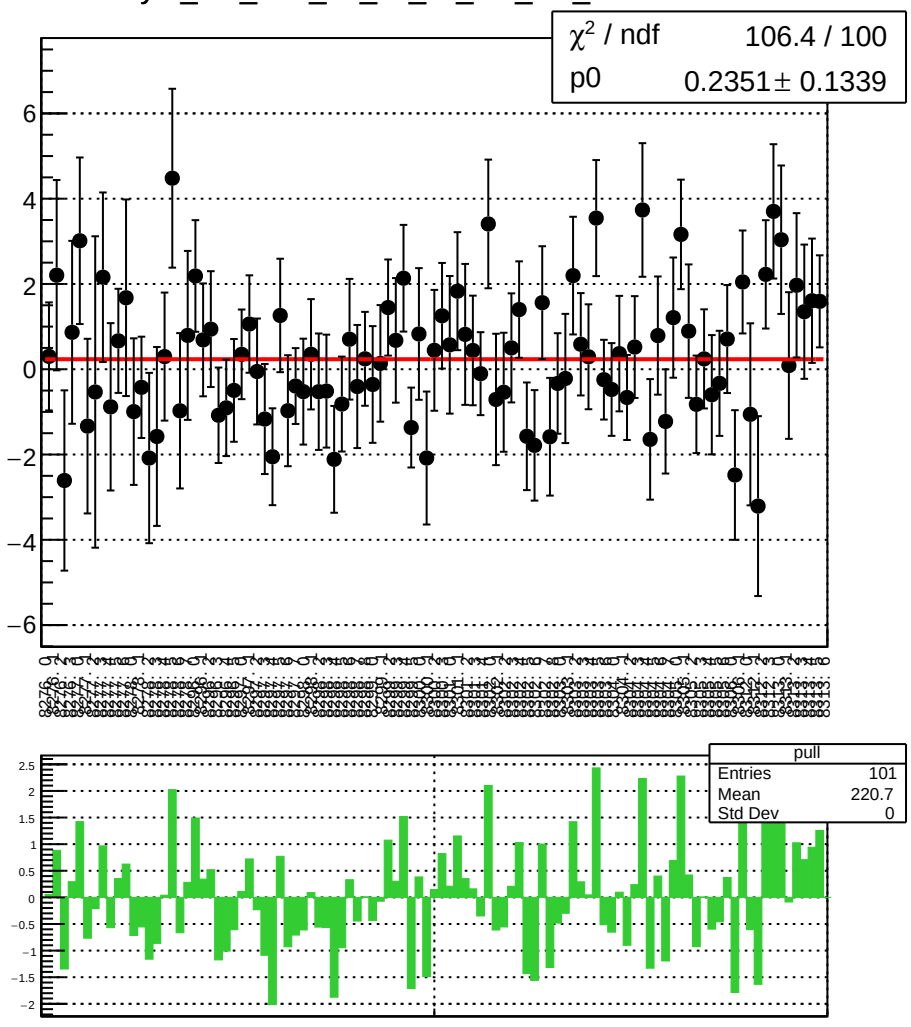

asym_usr_atr2_dd_mean vs run
×10^3
χ² / ndf 113.7 / 100
p0 −9035 ± 6037
pull
Entries 101
Mean −1078
Std Dev 0

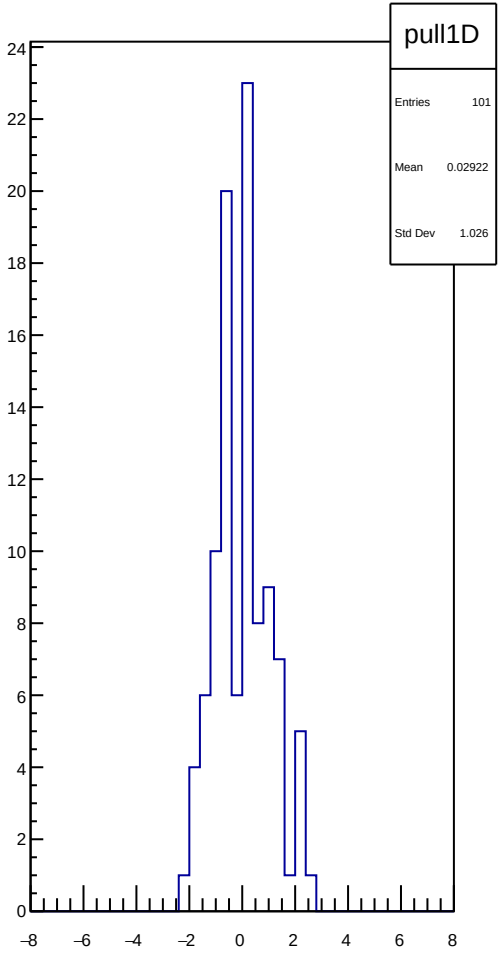

pull1D
Entries 101
Mean 0.006392
Std Dev 1.061

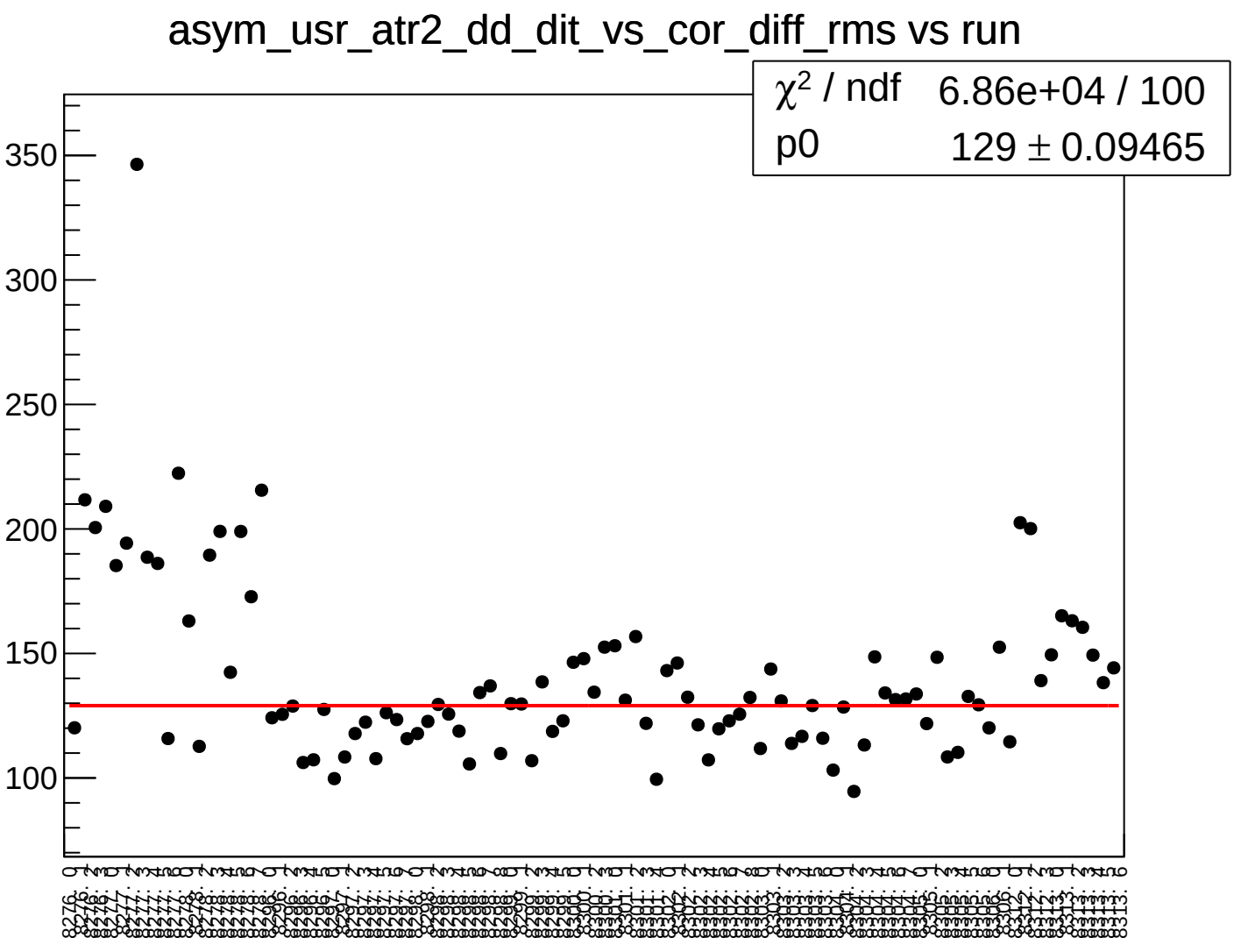

asym_usr_atr2_dd_rms vs run
χ^2 / ndf 5897 / 100
p0 5918 ± 4.269
7500
7000
6500
6000
5500

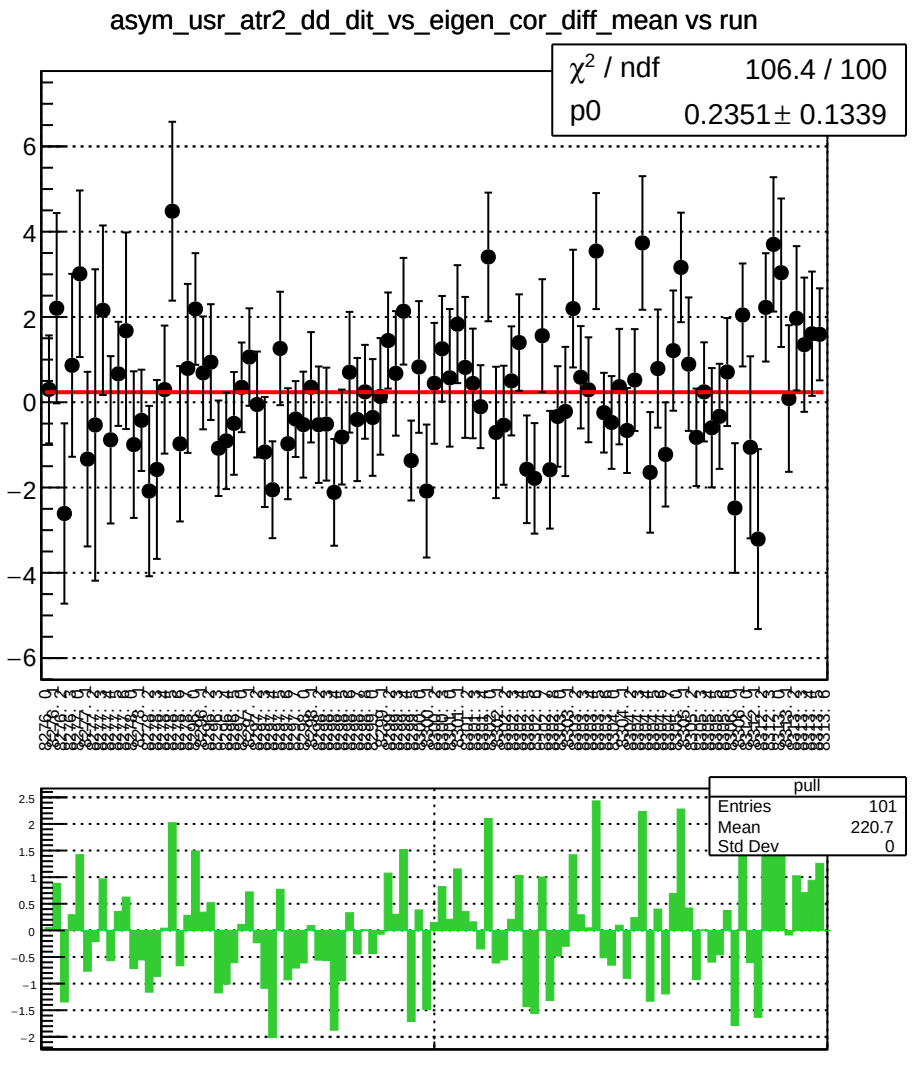

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 134.2 / 100
p0 −1.159e−12 ± 7.11e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 101
Mean 18.04
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean −0.1095
Std Dev 1.147
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

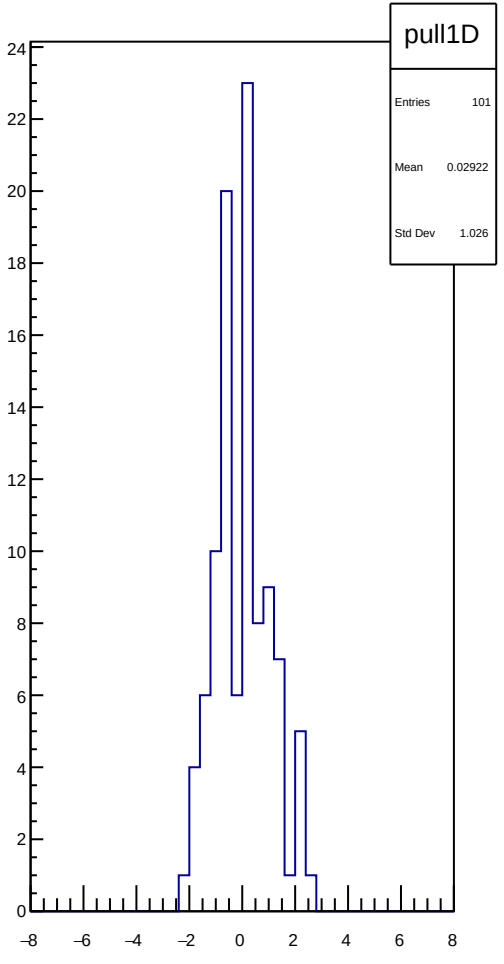

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.79e+05 / 100
p0 4.896e−10 ± 5.027e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

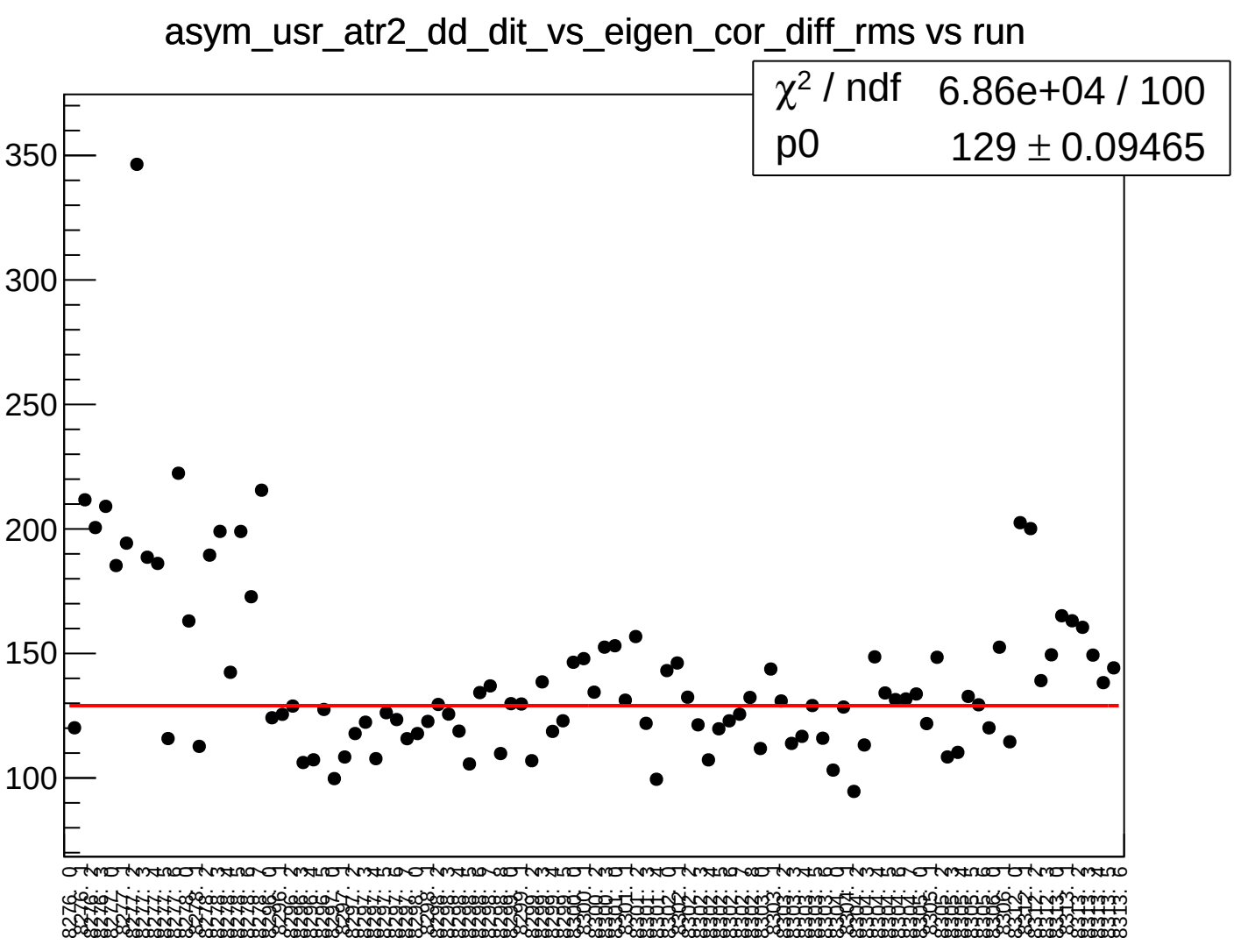

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 106.4 / 100
p0 0.2351± 0.1339
pull
Entries 101
Mean 220.7
Std Dev 0

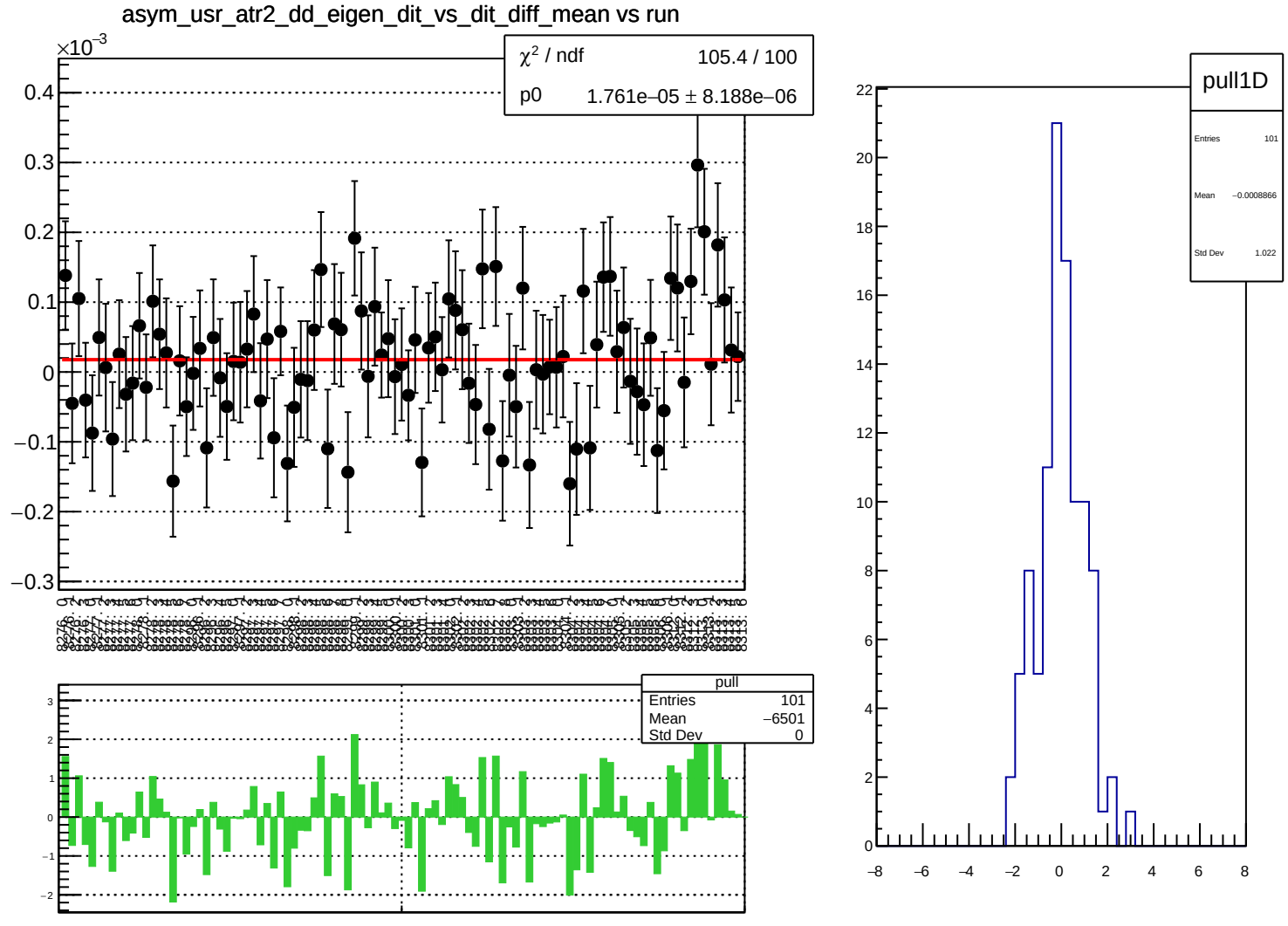

pull1D
Entries 101
Mean 0.02922
Std Dev 1.026

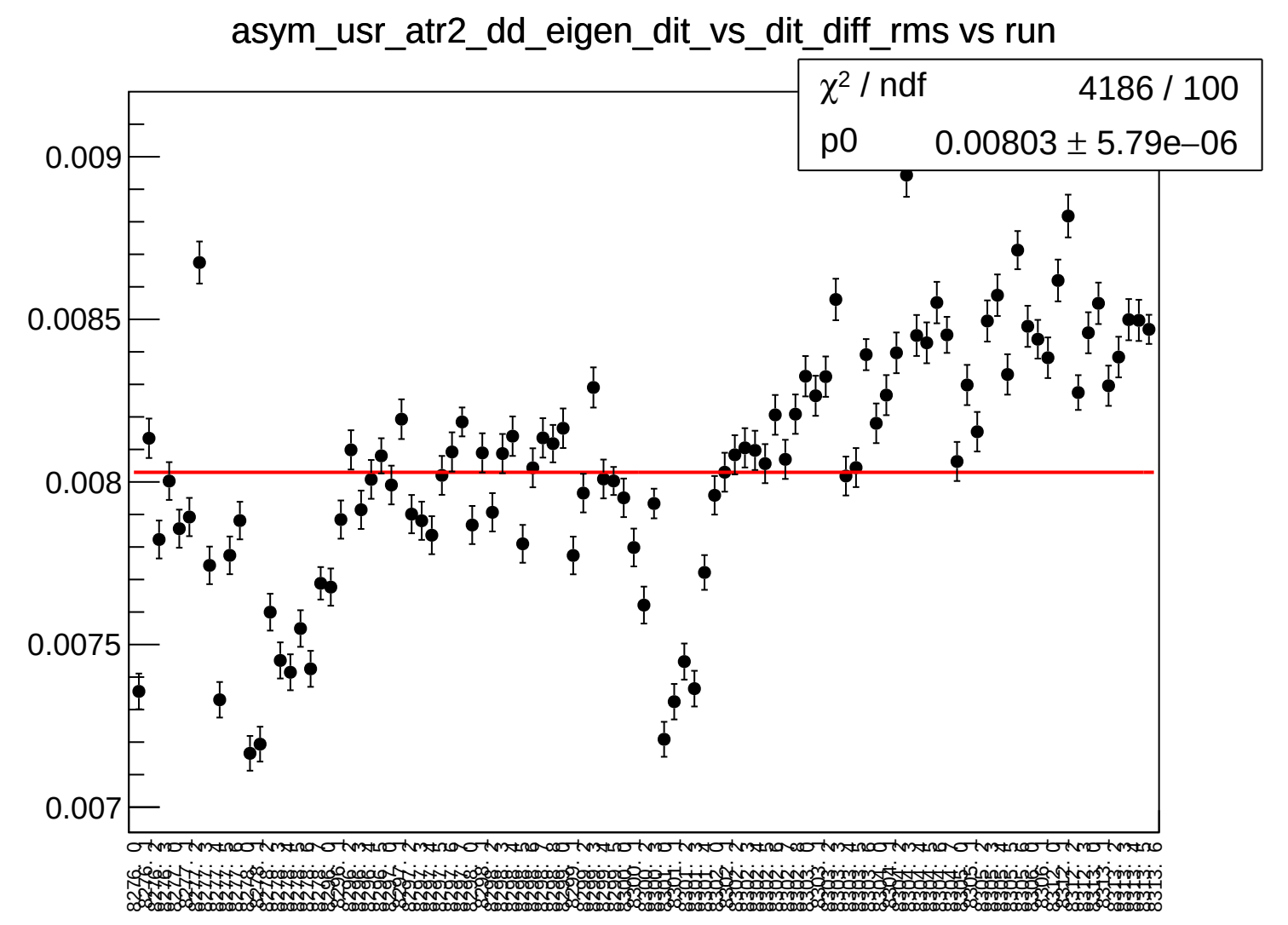

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.86e+04 / 100
p0 129 ± 0.09465
350
300
250
200
150
100

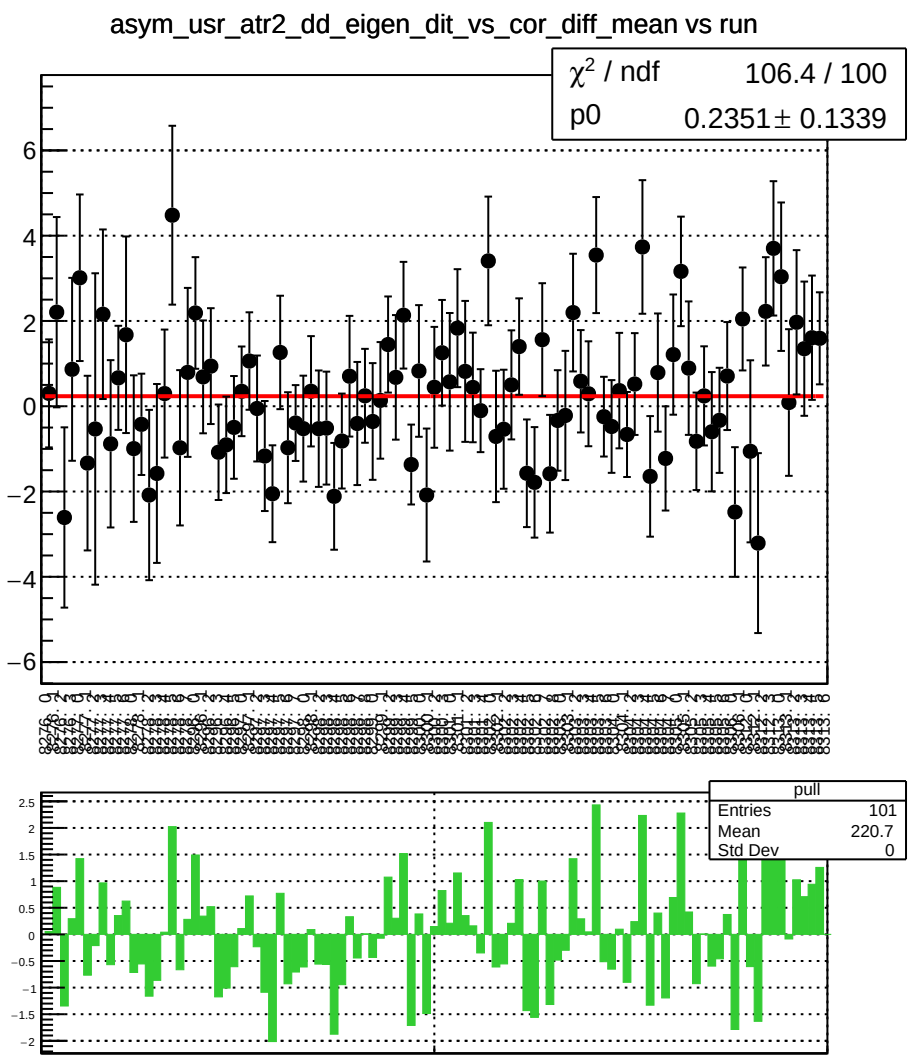

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.4 / 100
p0 0.2351 ± 0.1339
pull
Entries 101
Mean 220.7
Std Dev 0

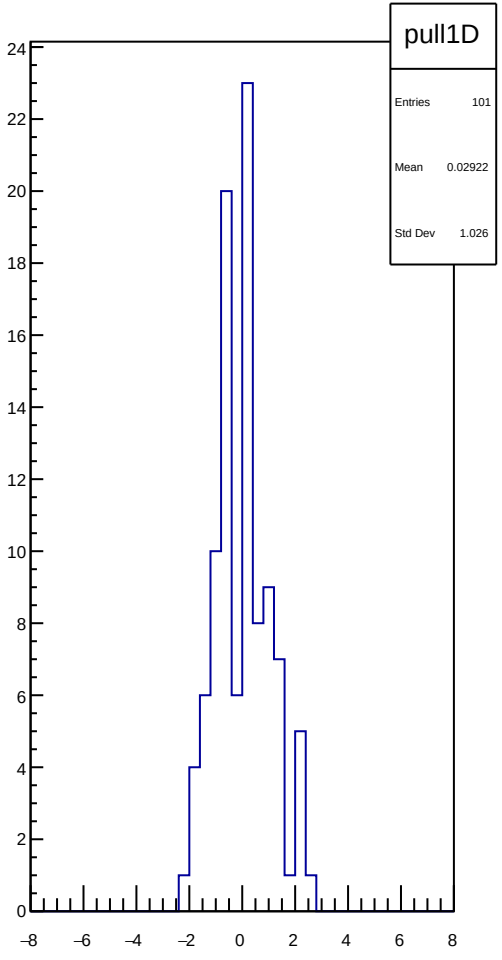

pull1D
Entries 101
Mean 0.02922
Std Dev 1.026

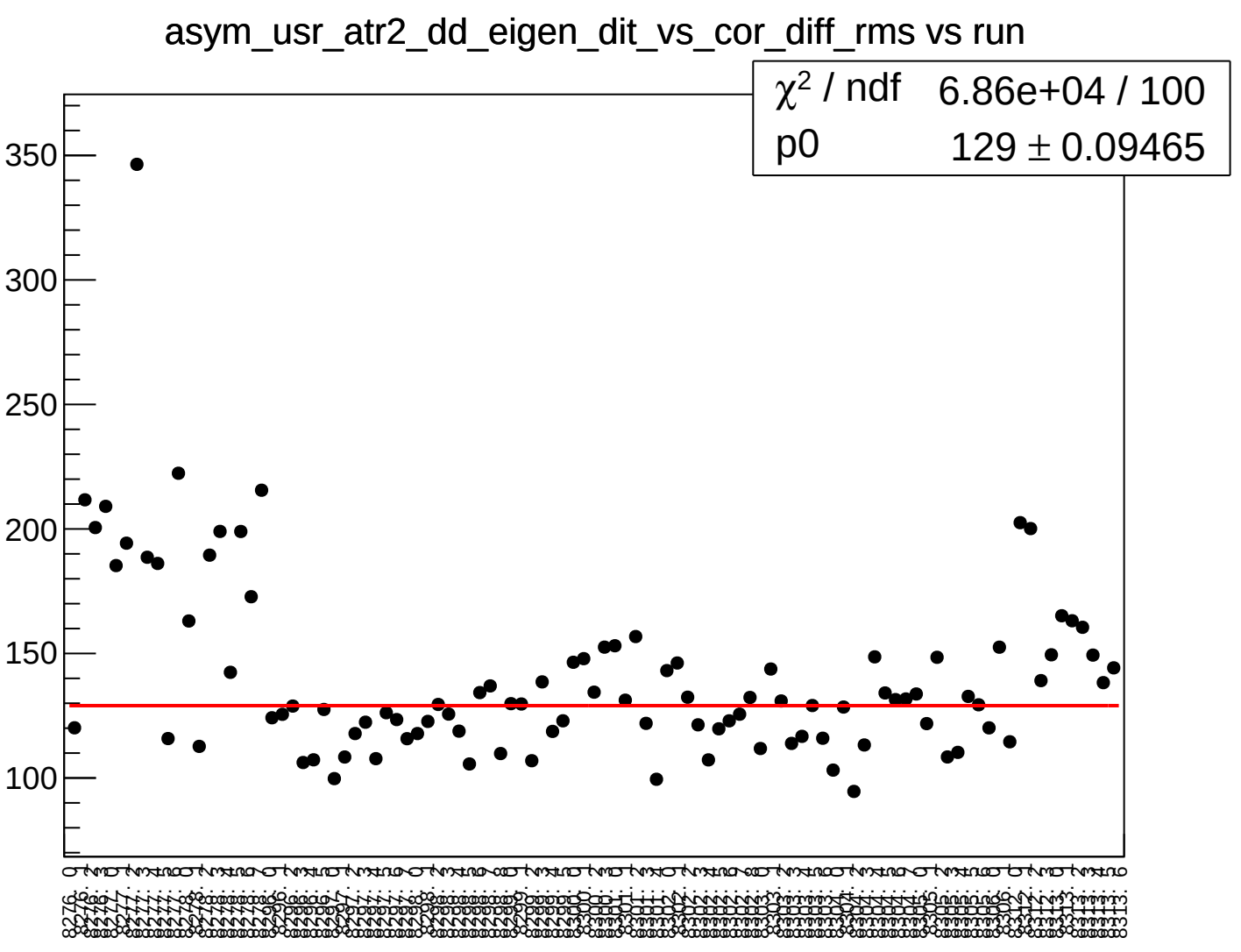

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.86e+04 / 100
p0 129 ± 0.09465
350
300
250
200
150
100

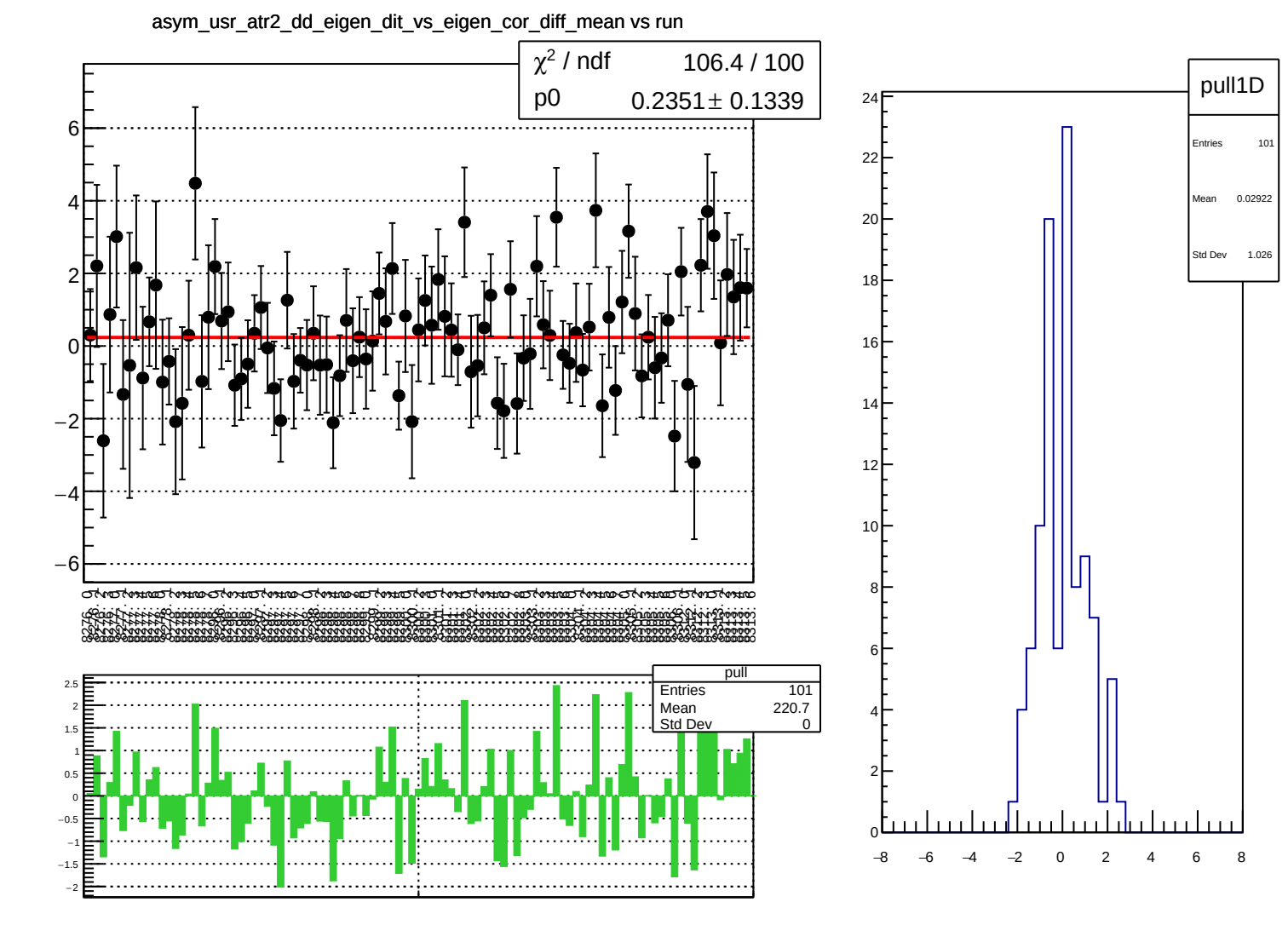

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 105.4 / 100
p0 1.761e−05 ± 8.188e−06
pull
Entries 101
Mean −6501
Std Dev 0
pull1D
Entries 101
Mean −0.0008866
Std Dev 1.022

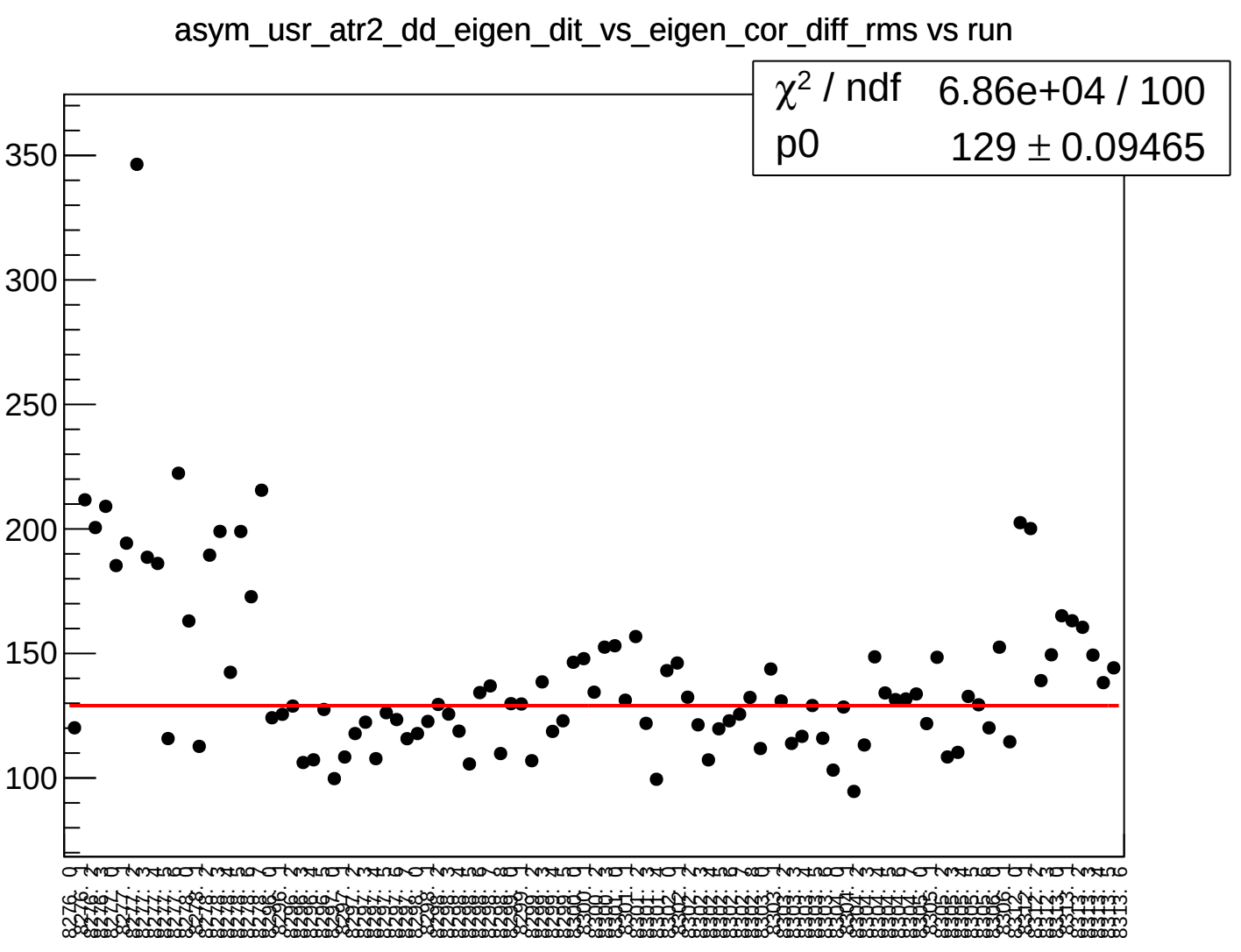

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4186 / 100
p0 0.00803 ± 5.79e−06
0.009
0.0085
0.008
0.0075
0.007

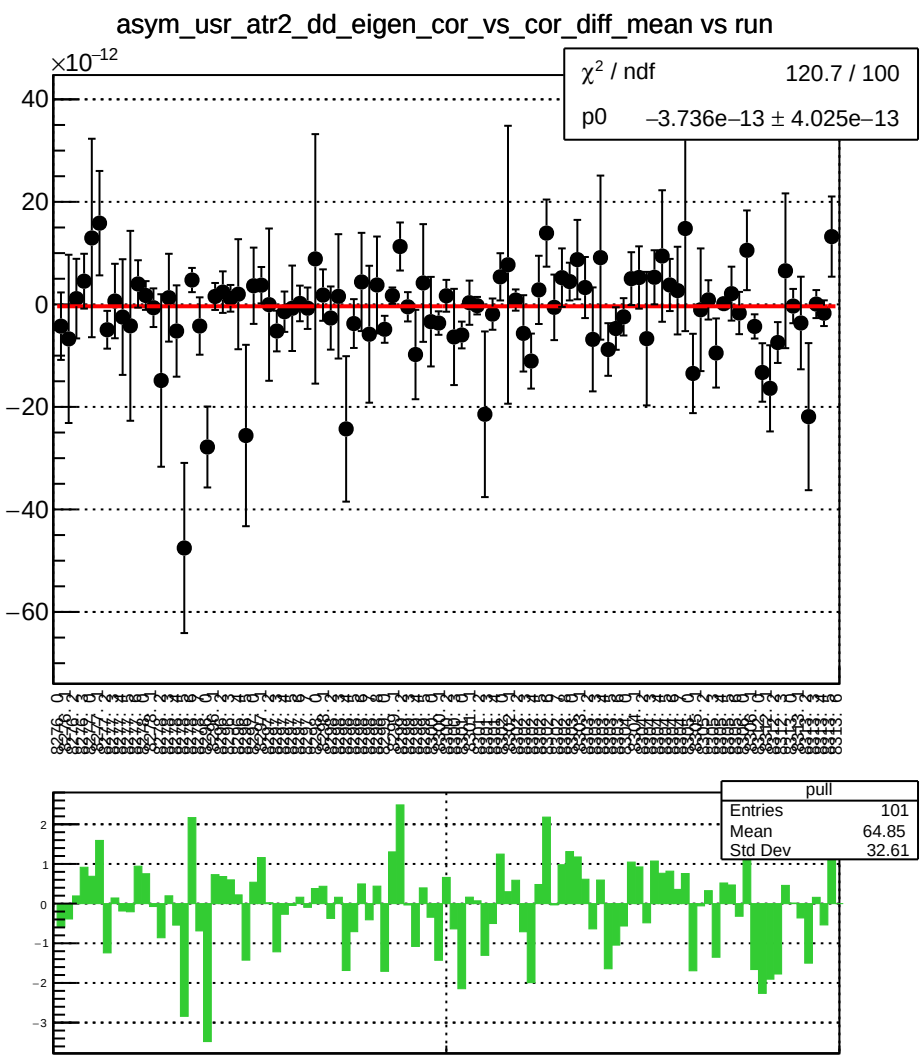

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 106.4 / 100
p0 0.2351 ± 0.1339
pull
Entries 101
Mean 220.7
Std Dev 0

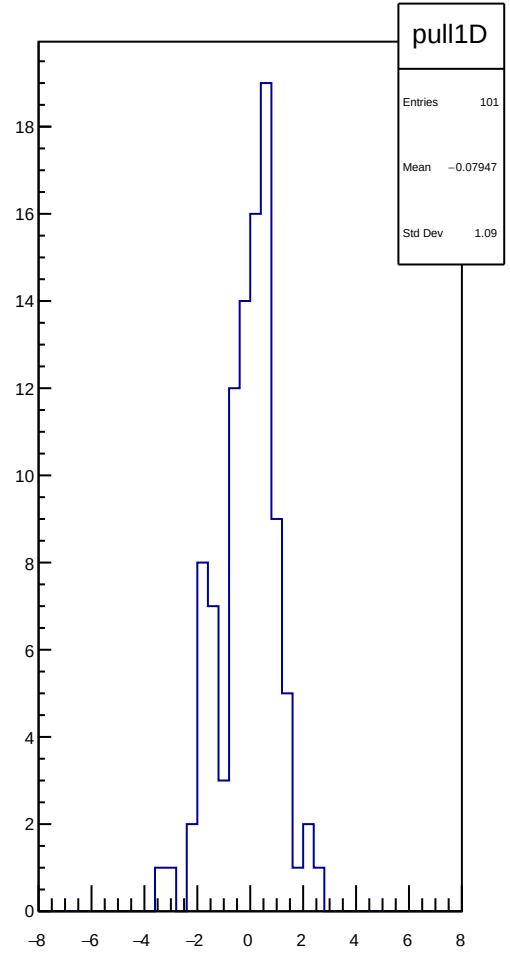

pull1D
Entries 101
Mean 0.02922
Std Dev 1.026

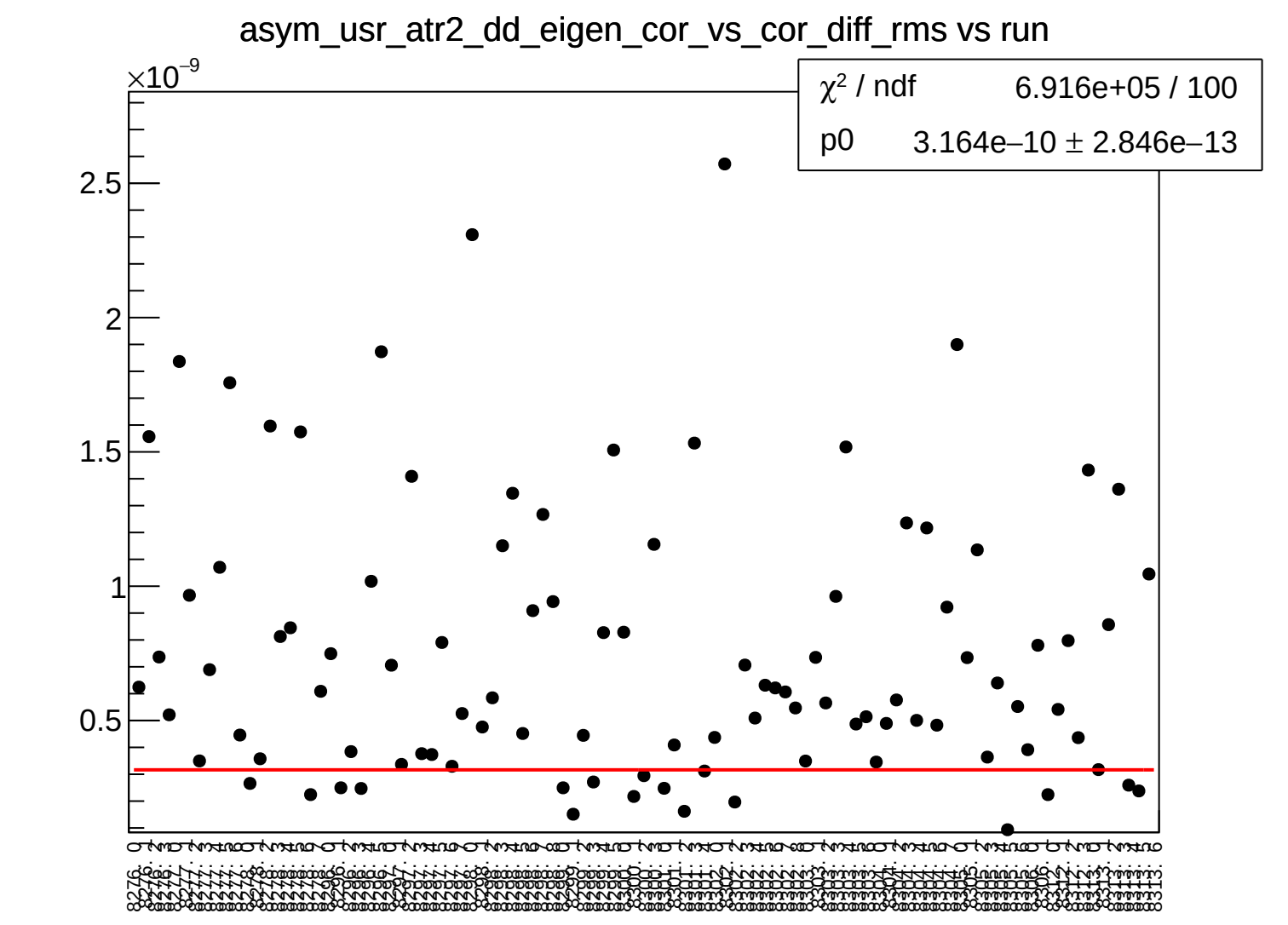

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.86e+04 / 100
p0 129 ± 0.09465
350
300
250
200
150
100

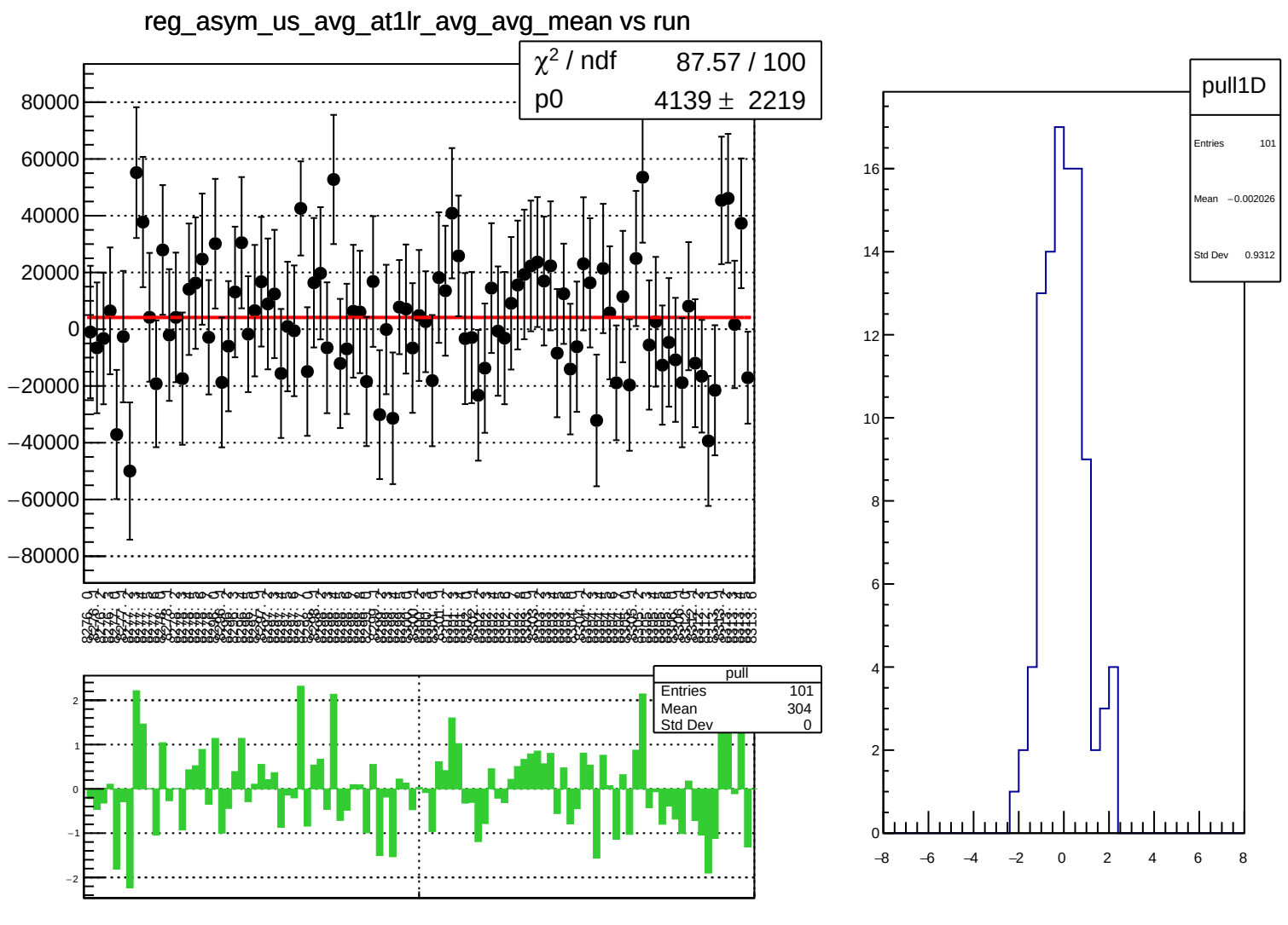

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.4 / 100
p0 0.2351± 0.1339
pull
Entries 101
Mean 220.7
Std Dev 0
pull1D
Entries 101
Mean 0.02922
Std Dev 1.026

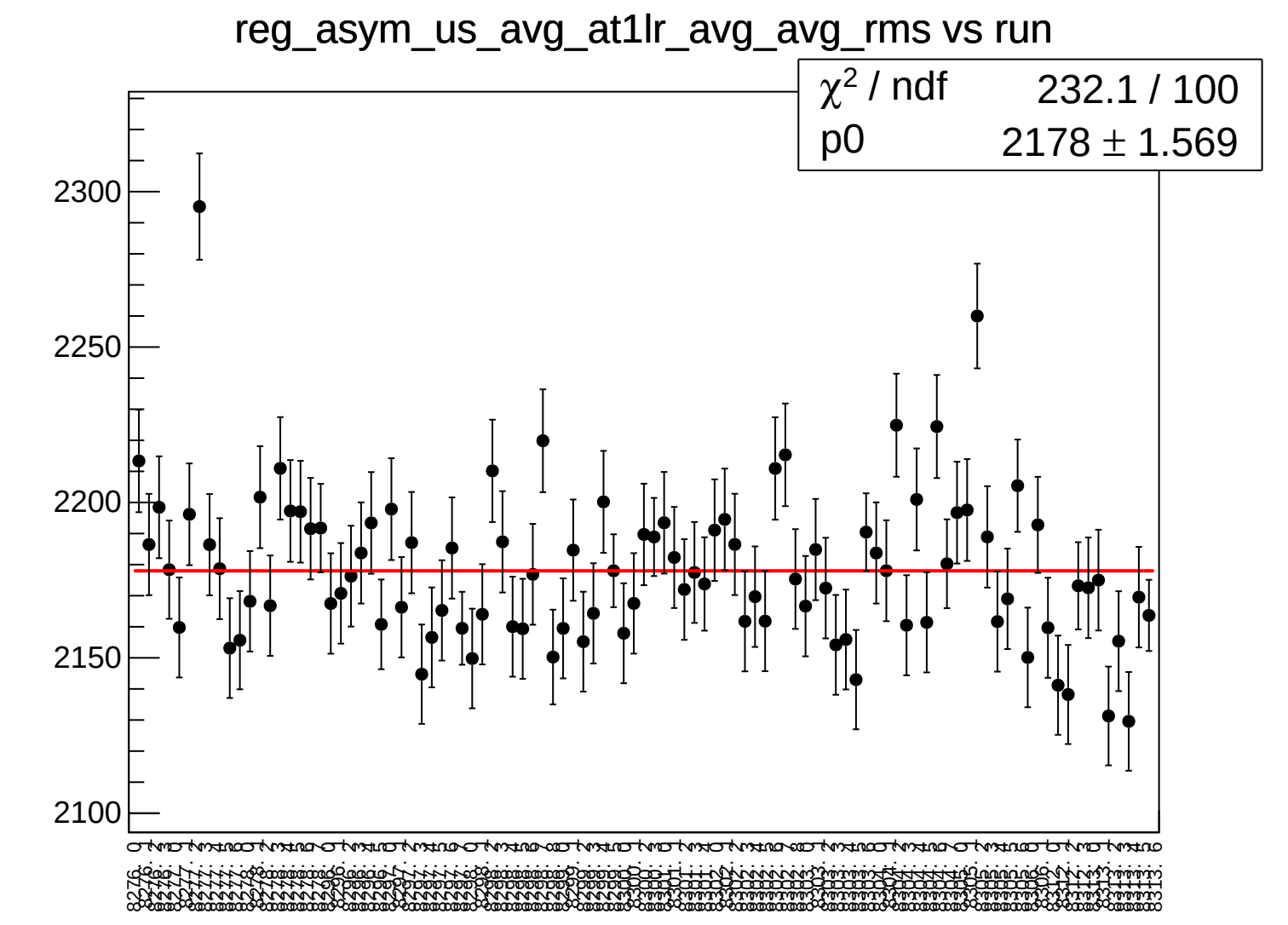

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.86e+04 / 100
p0 129 ± 0.09465
350
300
250
200
150
100

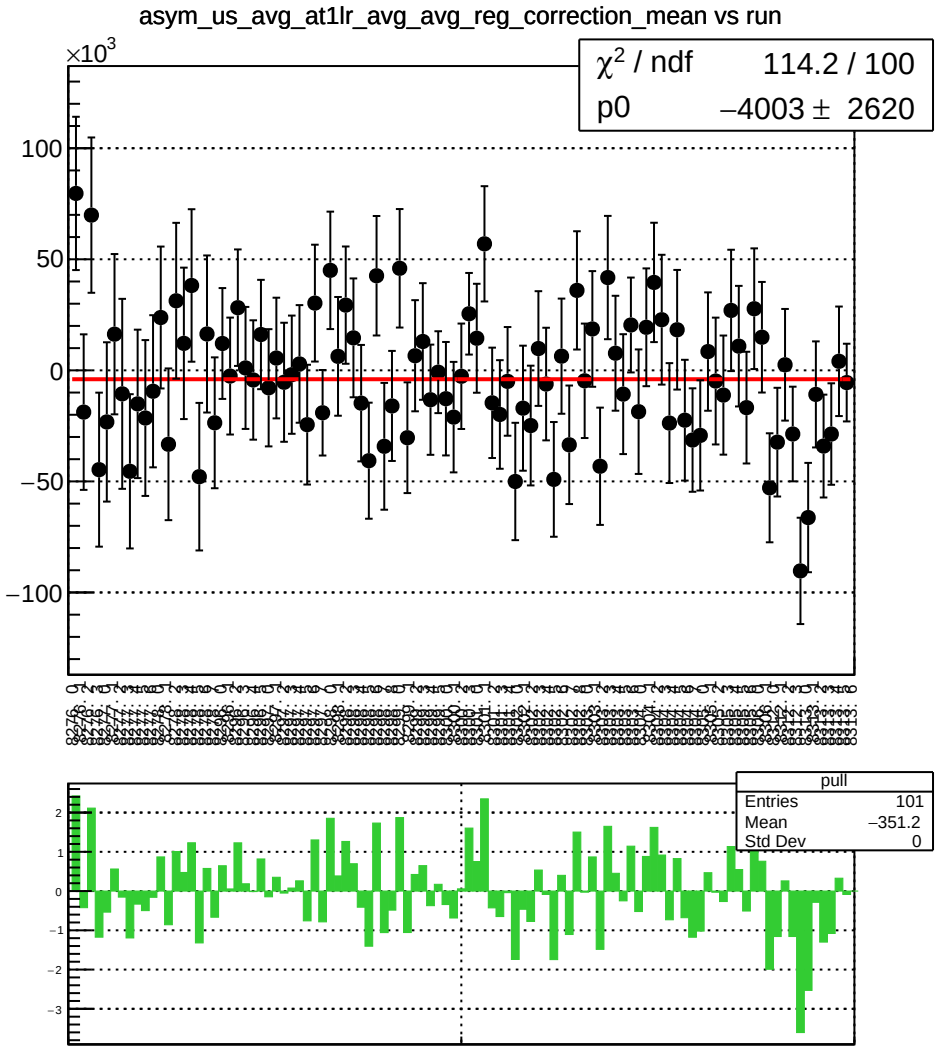

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 120.7 / 100
p0 −3.736e−13 ± 4.025e−13
pull
Entries 101
Mean 64.85
Std Dev 32.61

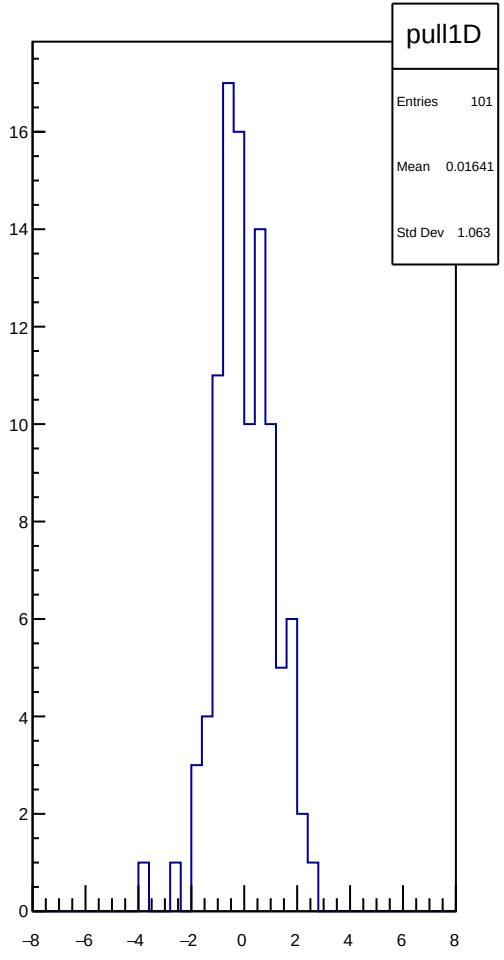

pull1D
Entries 101
Mean −0.07947
Std Dev 1.09

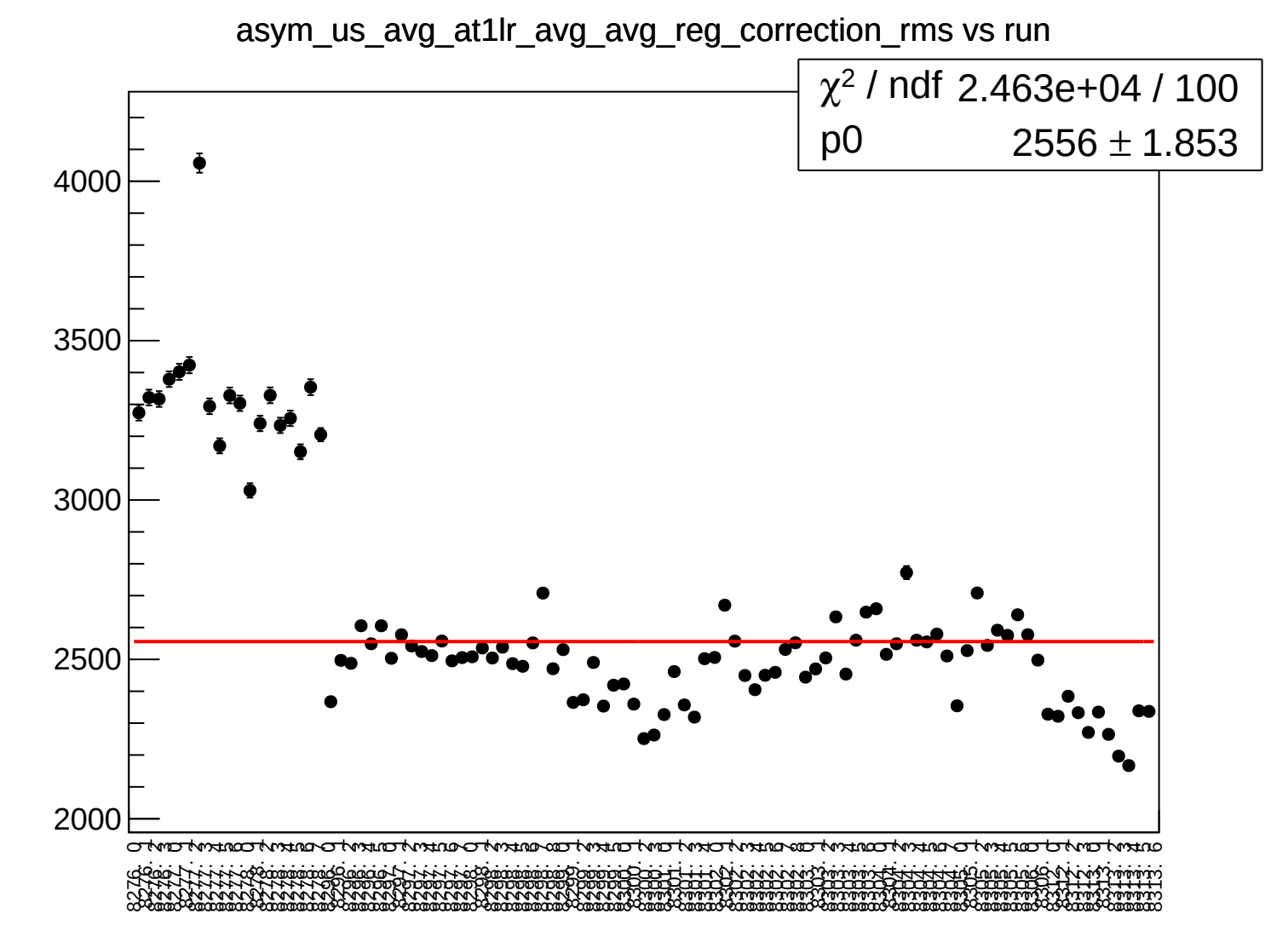

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.916e+05 / 100
p0 3.164e−10 ± 2.846e−13
2.5
2
1.5
1
0.5

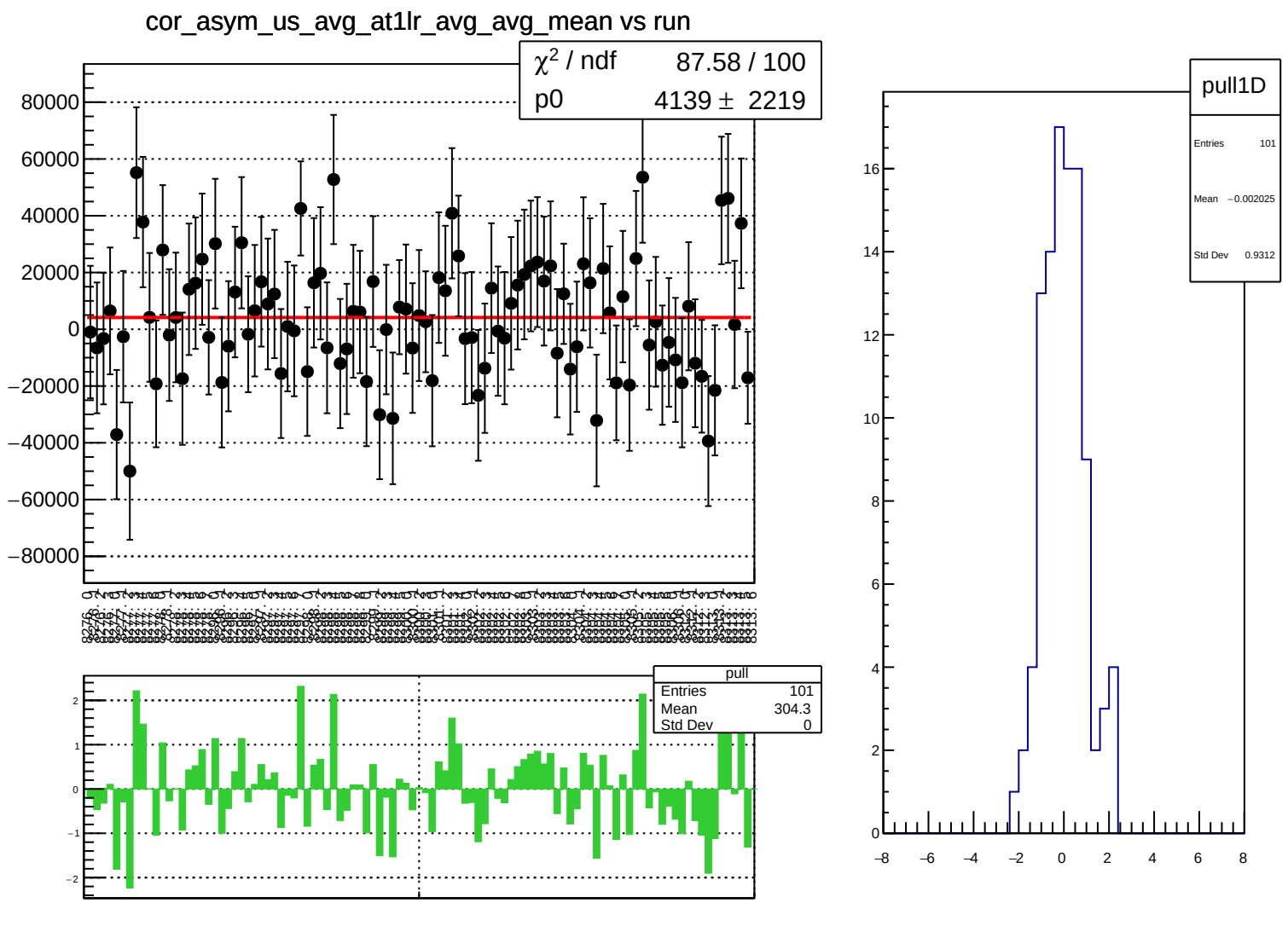

reg_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 87.57 / 100
p0 4139 ± 2219
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 101
Mean 304
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.002026
Std Dev 0.9312
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

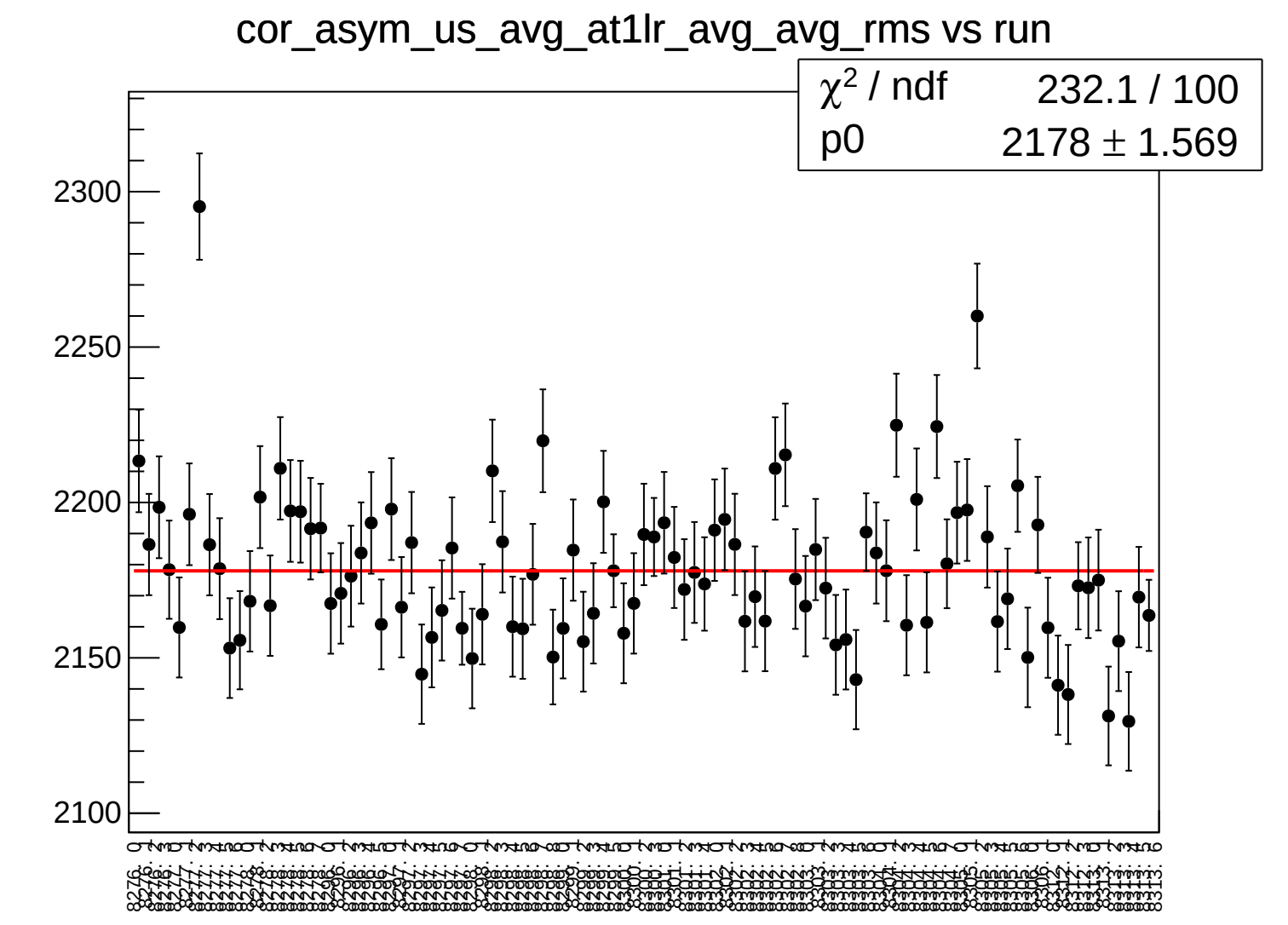

reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ^2 / ndf 232.1 / 100
p0 2178 ± 1.569
2300
2250
2200
2150
2100

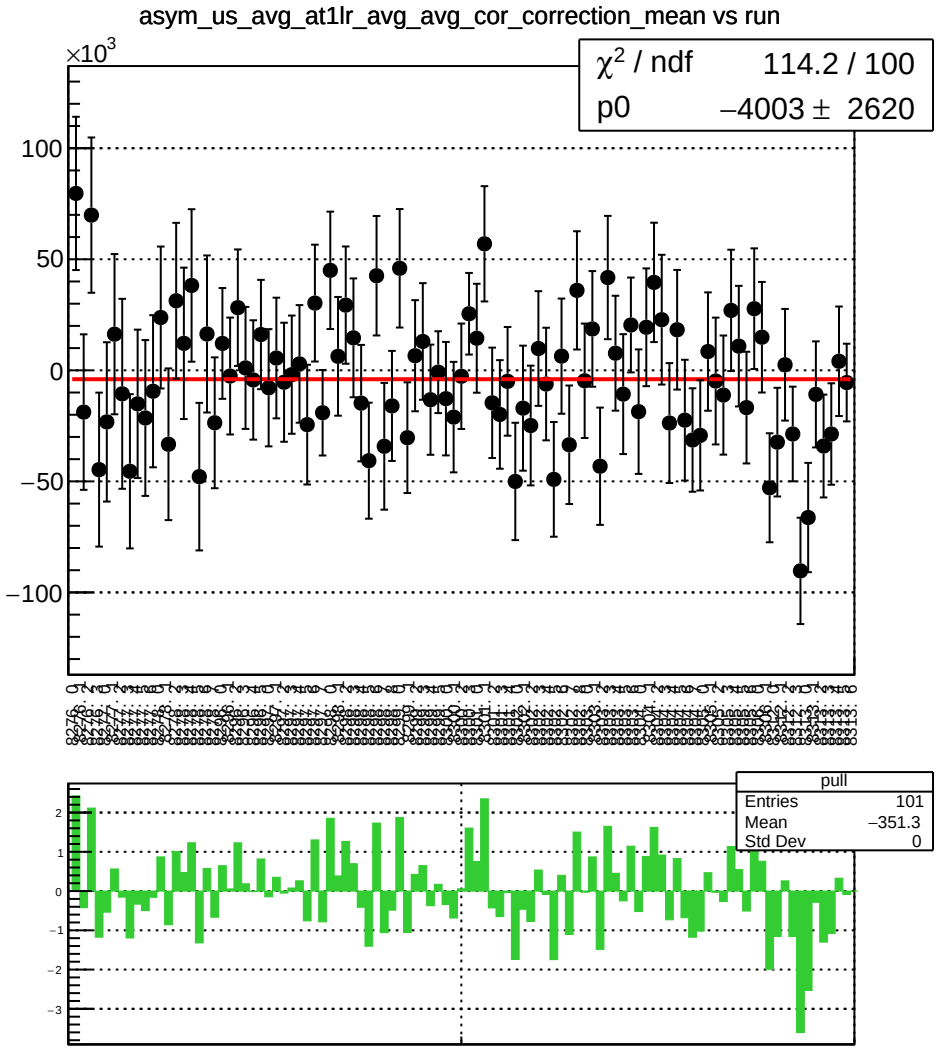

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 114.2 / 100
p0 −4003 ± 2620
100
50
0
−50
−100
pull
Entries 101
Mean −351.2
Std Dev 0
2
1
0
−1
−2
−3

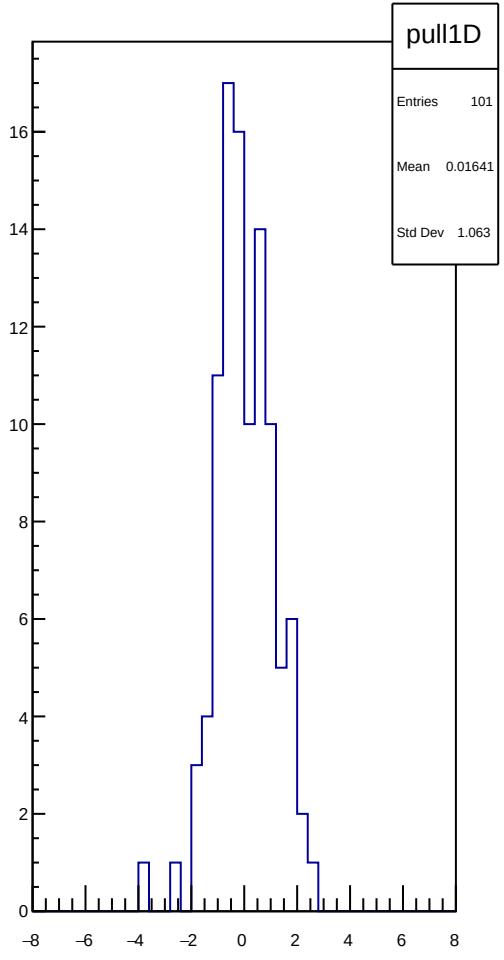

pull1D
Entries 101
Mean 0.01641
Std Dev 1.063
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

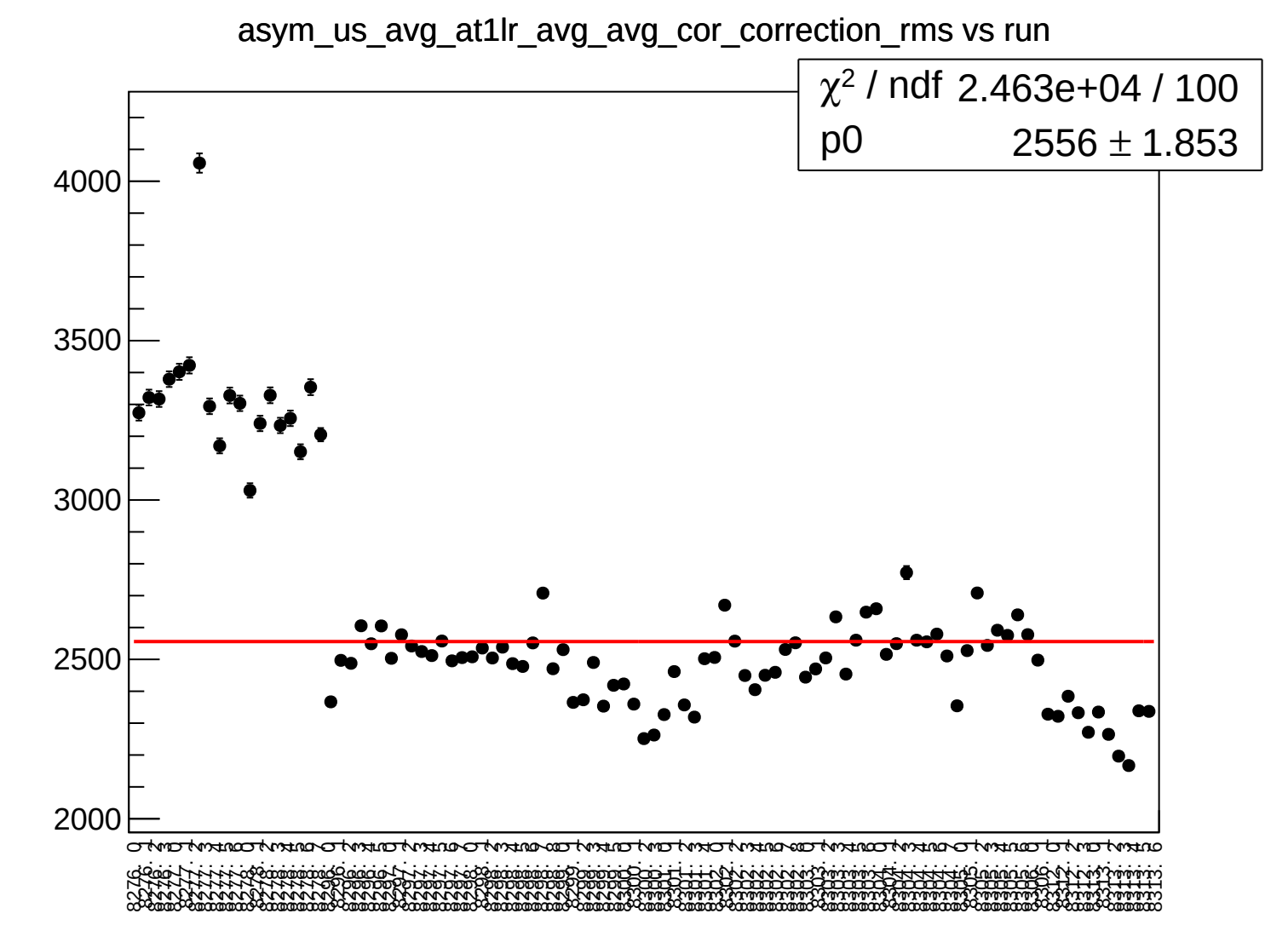

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ^2 / ndf 2.463e+04 / 100
p0 2556 ± 1.853
4000
3500
3000
2500
2000

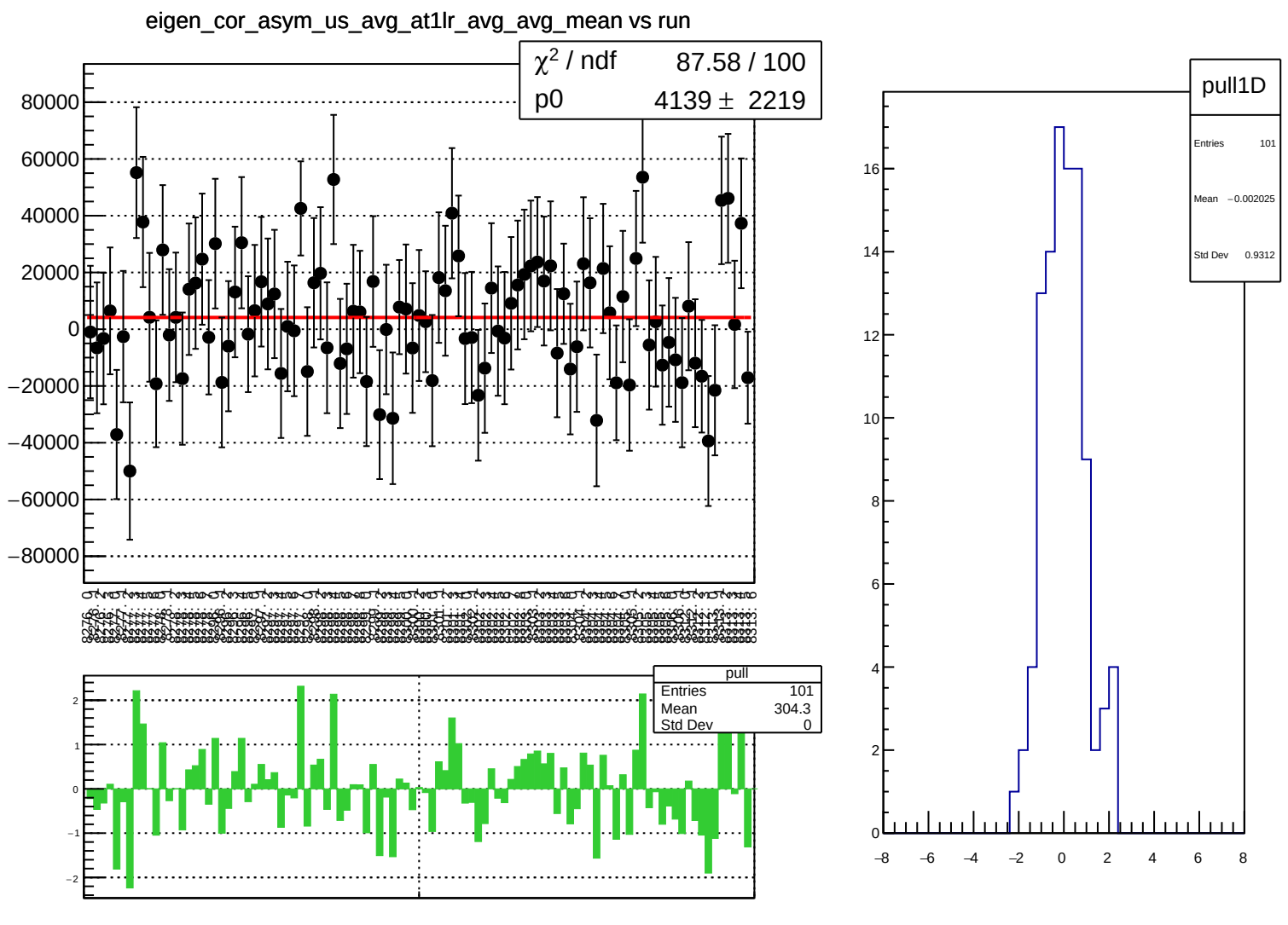

cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 87.58 / 100
p0 4139 ± 2219
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 101
Mean 304.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.002025
Std Dev 0.9312
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

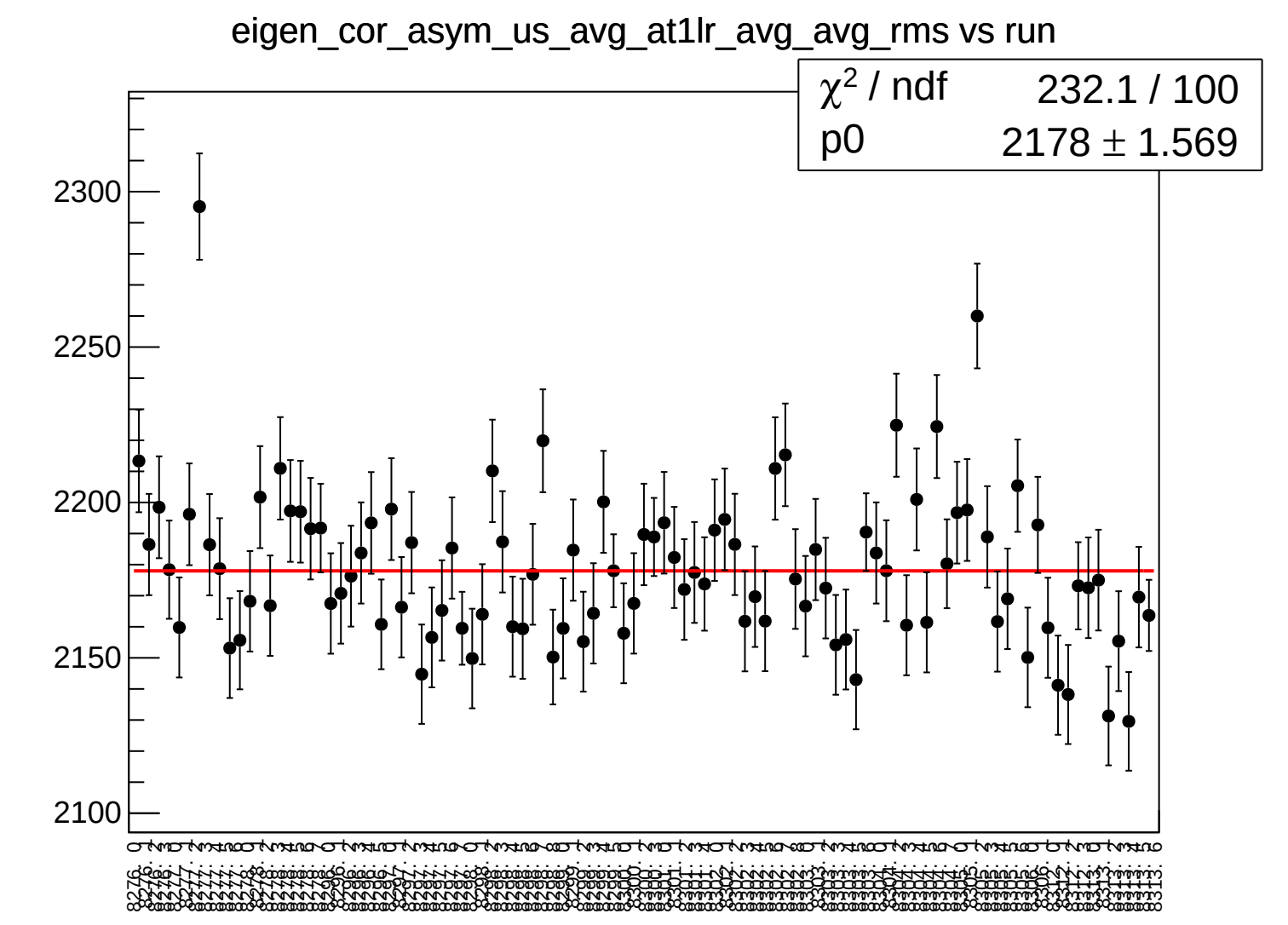

cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 232.1 / 100
p0 2178 ± 1.569
2300
2250
2200
2150
2100

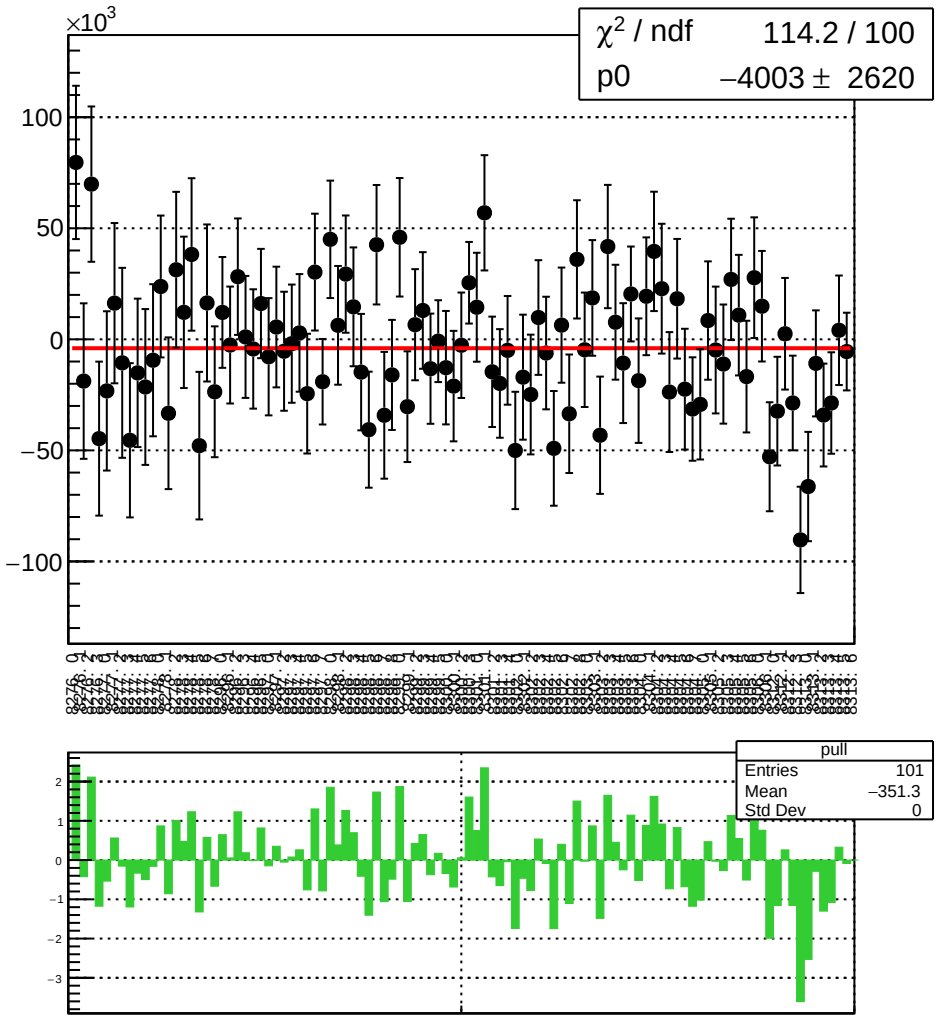

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 114.2 / 100
p0 −4003 ± 2620
100
50
0
−50
−100
pull
Entries 101
Mean −351.3
Std Dev 0
2
1
0
−1
−2
−3

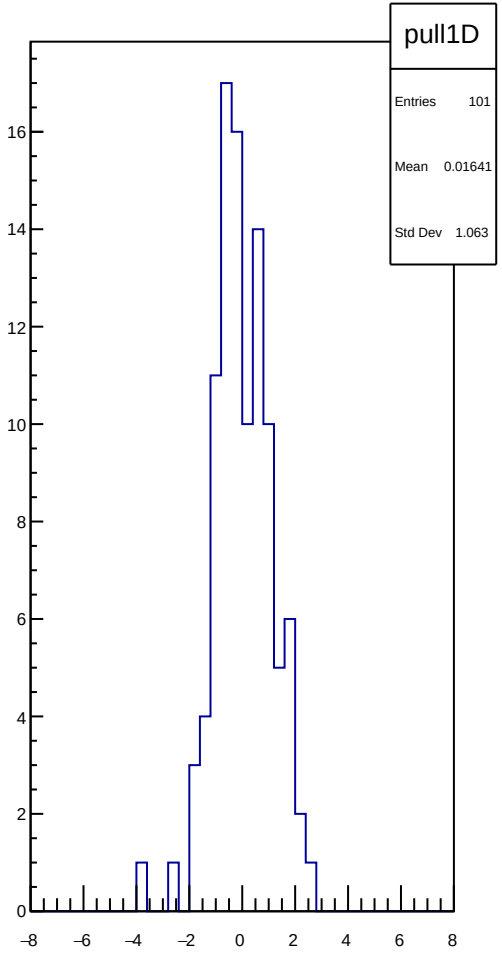

pull1D
Entries 101
Mean 0.01641
Std Dev 1.063
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

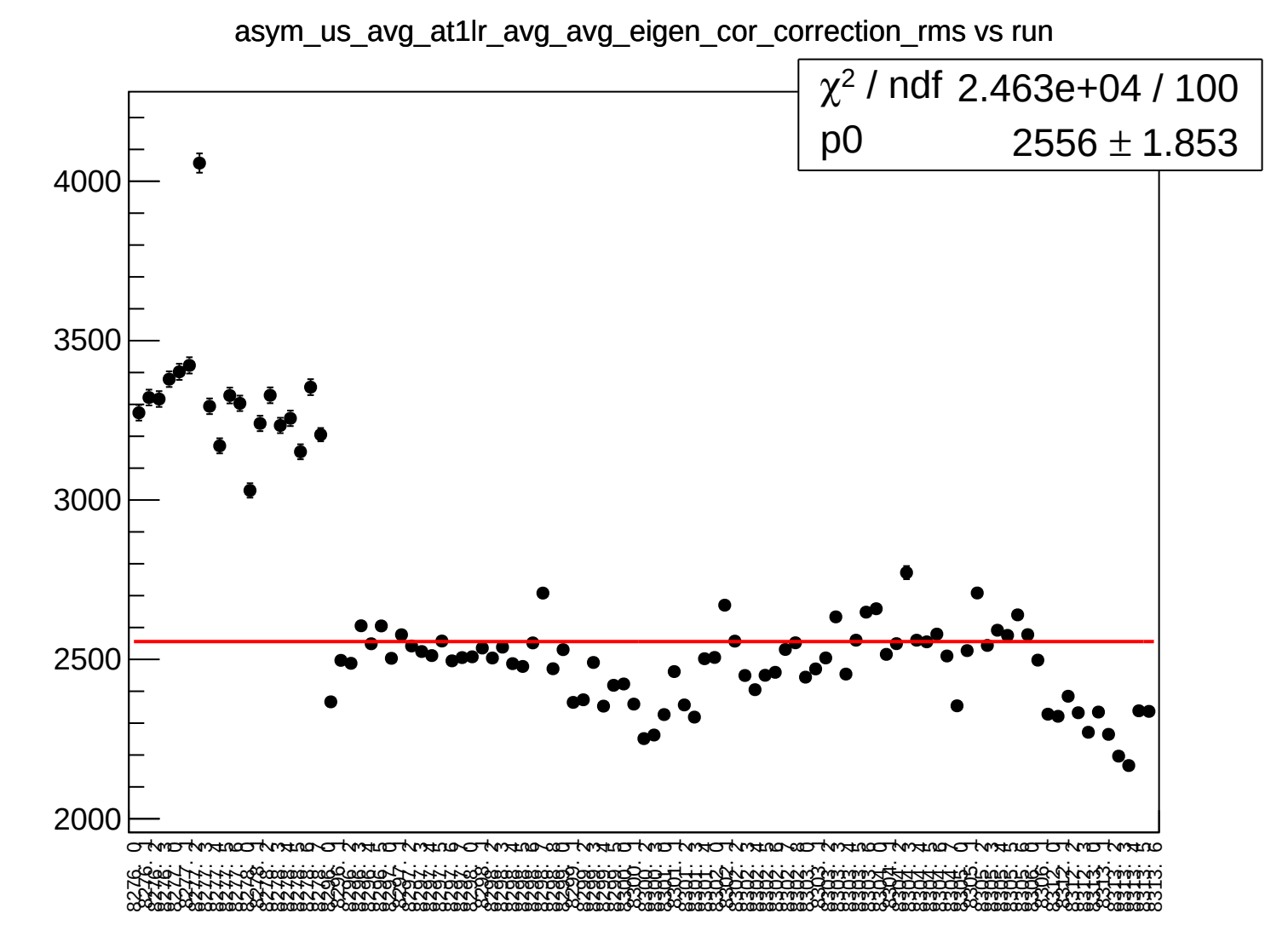

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 2.463e+04 / 100
p0 2556 ± 1.853
4000
3500
3000
2500
2000

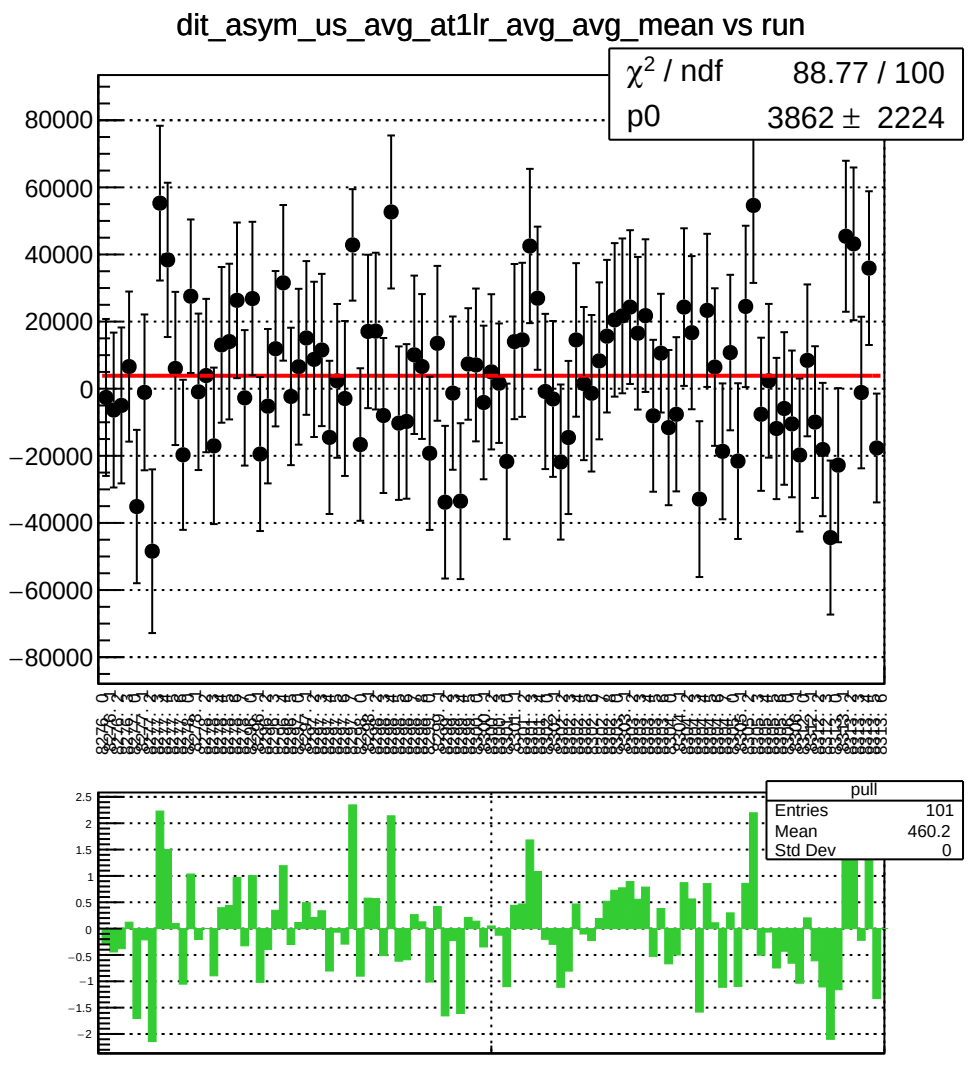

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 87.58 / 100
p0 4139 ± 2219
pull
Entries 101
Mean 304.3
Std Dev 0
pull1D
Entries 101
Mean −0.002025
Std Dev 0.9312

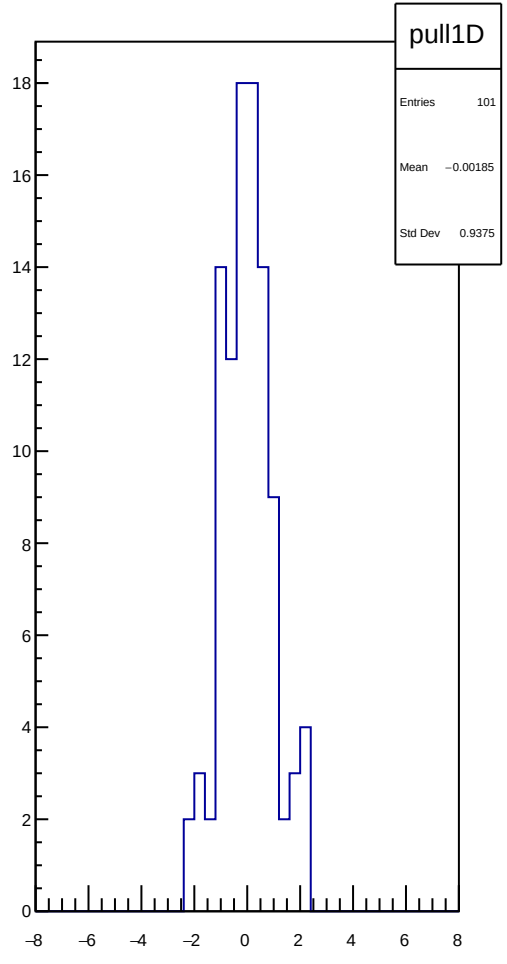

eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 232.1 / 100
p0 2178 ± 1.569
2300
2250
2200
2150
2100

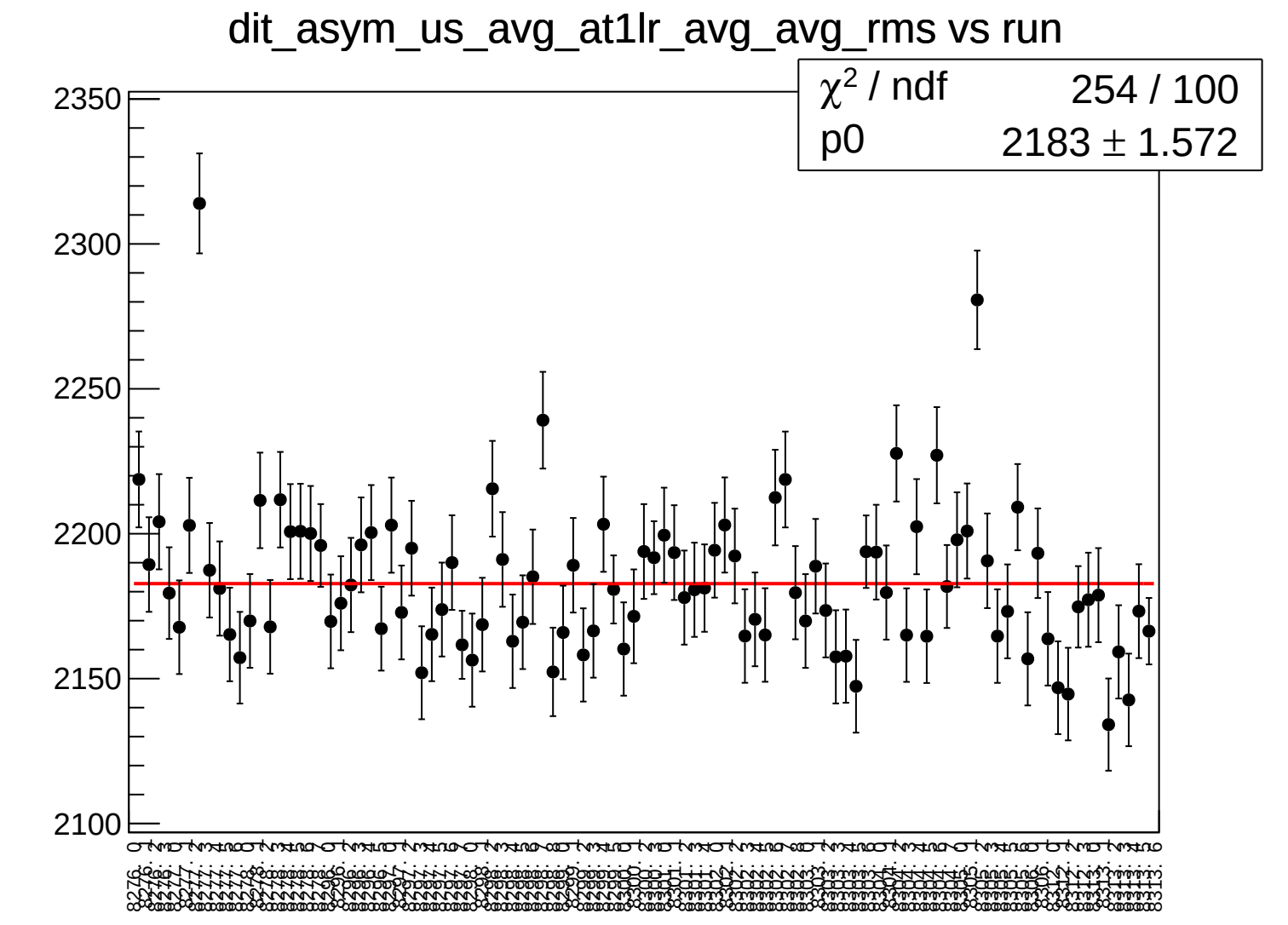

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 114.2 / 100
p0 −4003 ± 2620
100
50
0
−50
−100
pull
Entries 101
Mean −351.3
Std Dev 0
2
1
0
−1
−2
−3

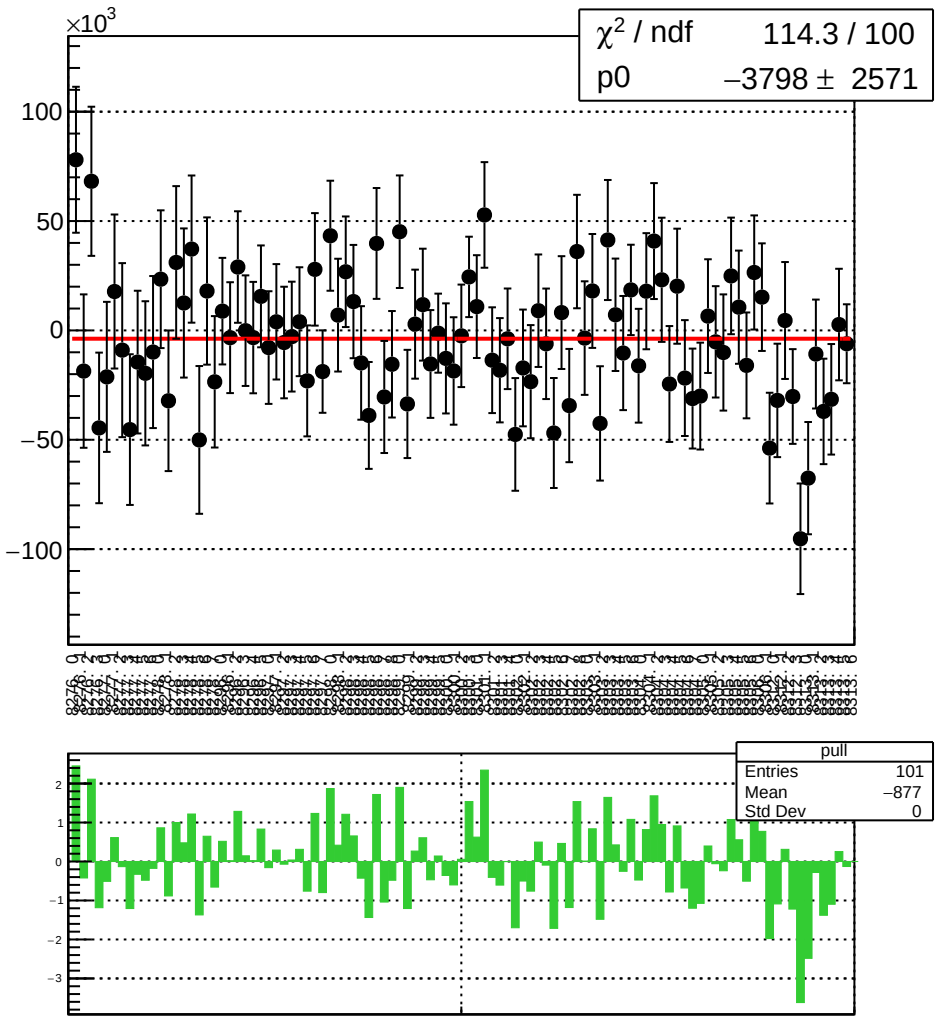

pull1D
Entries 101
Mean 0.01641
Std Dev 1.063
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

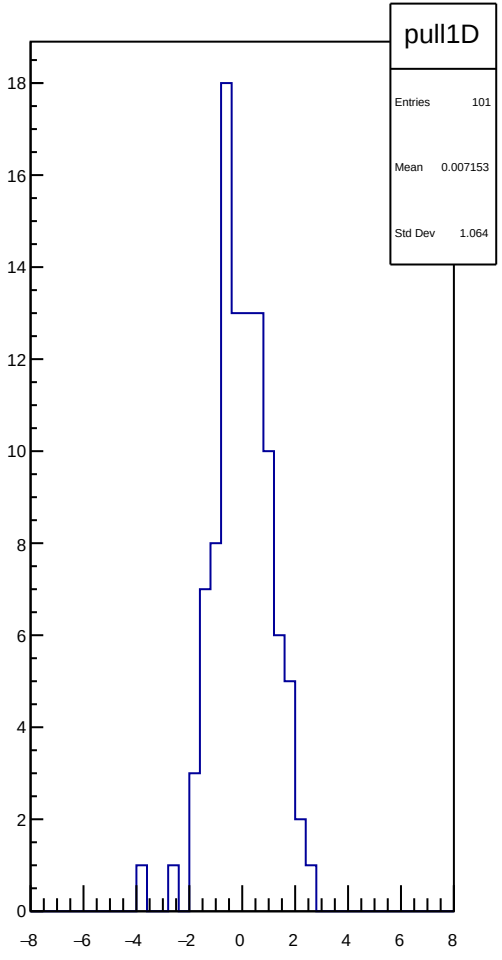

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.463e+04 / 100
p0 2556 ± 1.853
4000
3500
3000
2500
2000

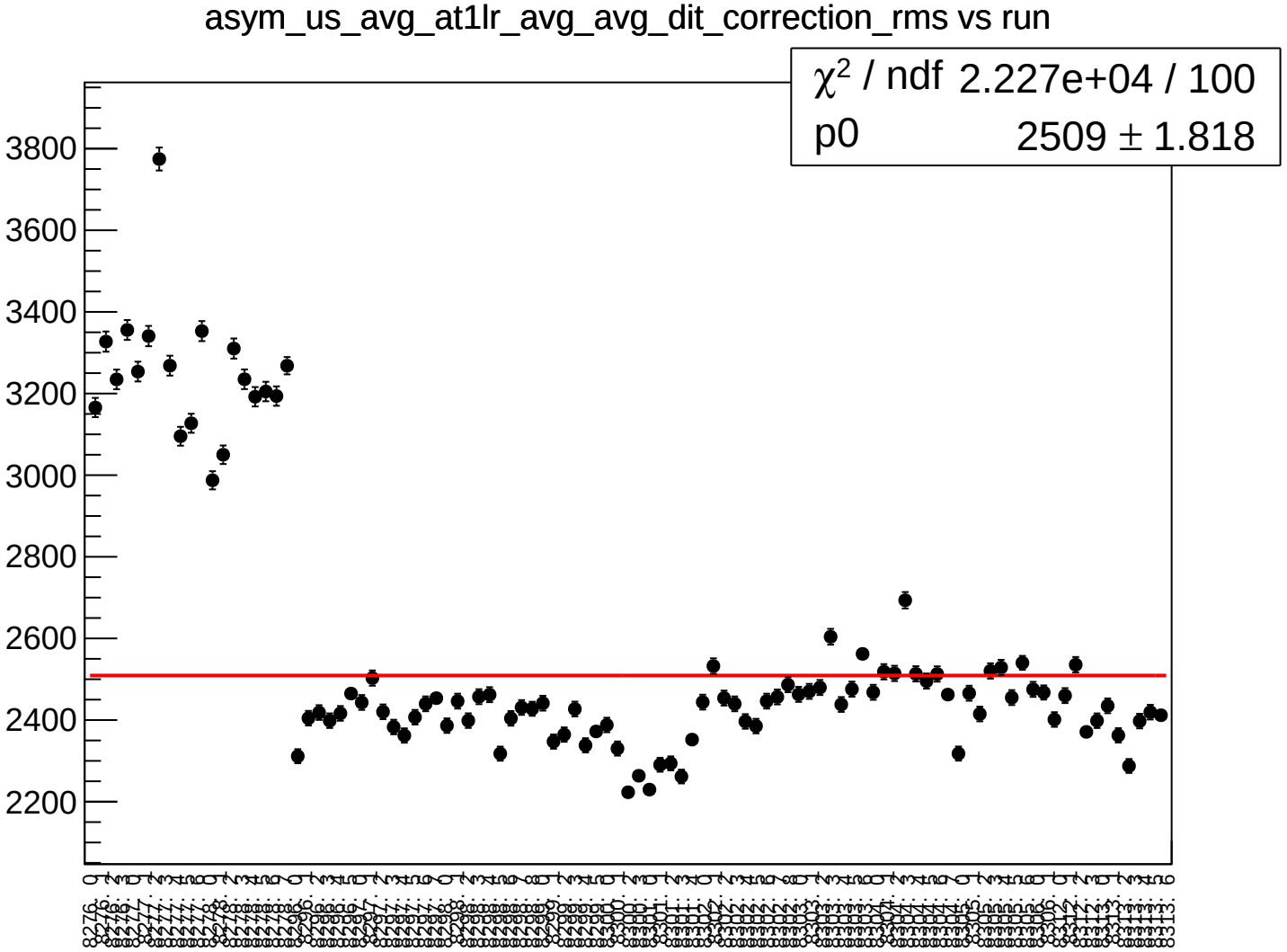

dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 88.77 / 100
p0 3862 ± 2224
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 101
Mean 460.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

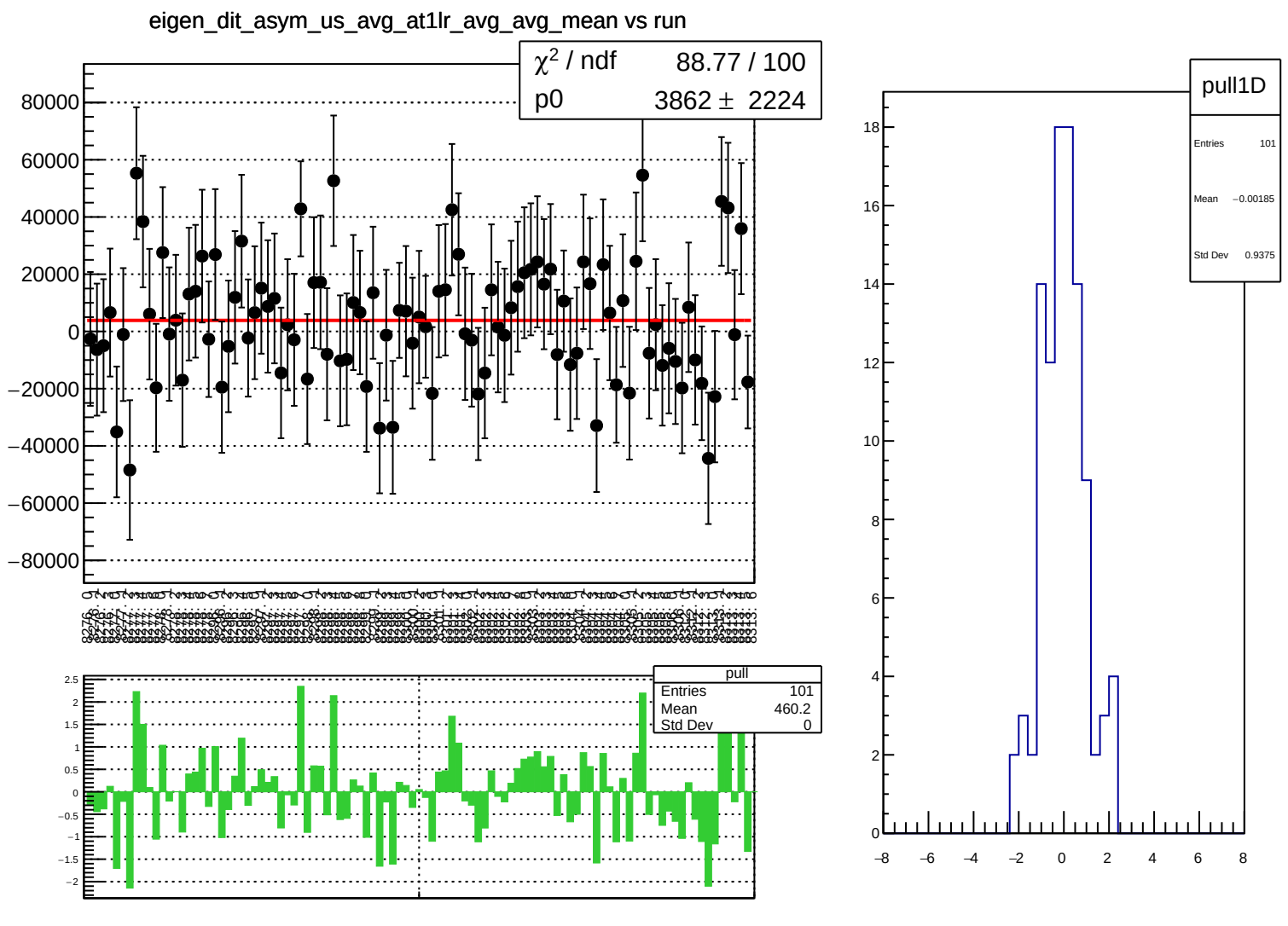

pull1D
Entries 101
Mean −0.00185
Std Dev 0.9375
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

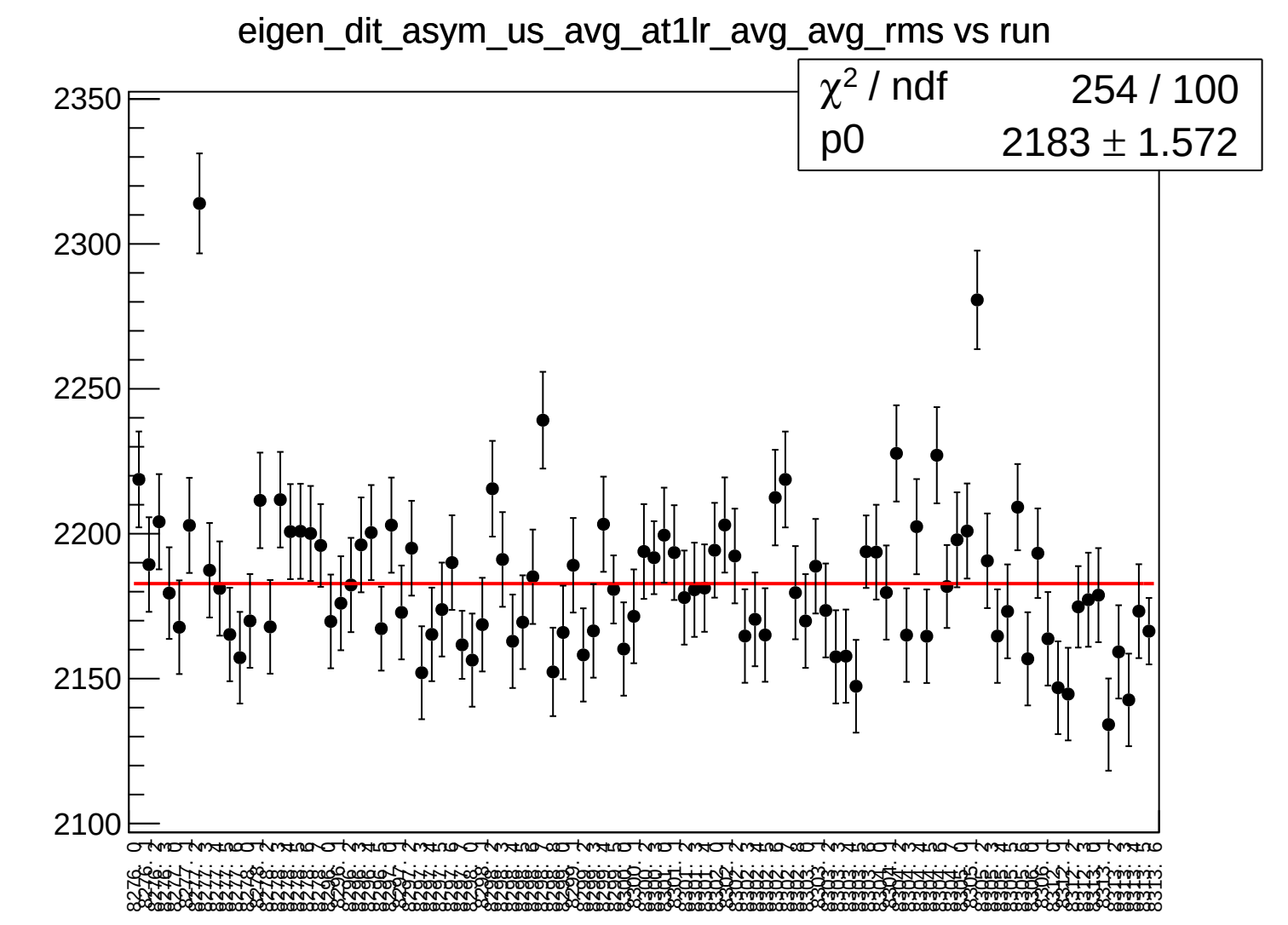

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 254 / 100
p0 2183 ± 1.572
2350
2300
2250
2200
2150
2100

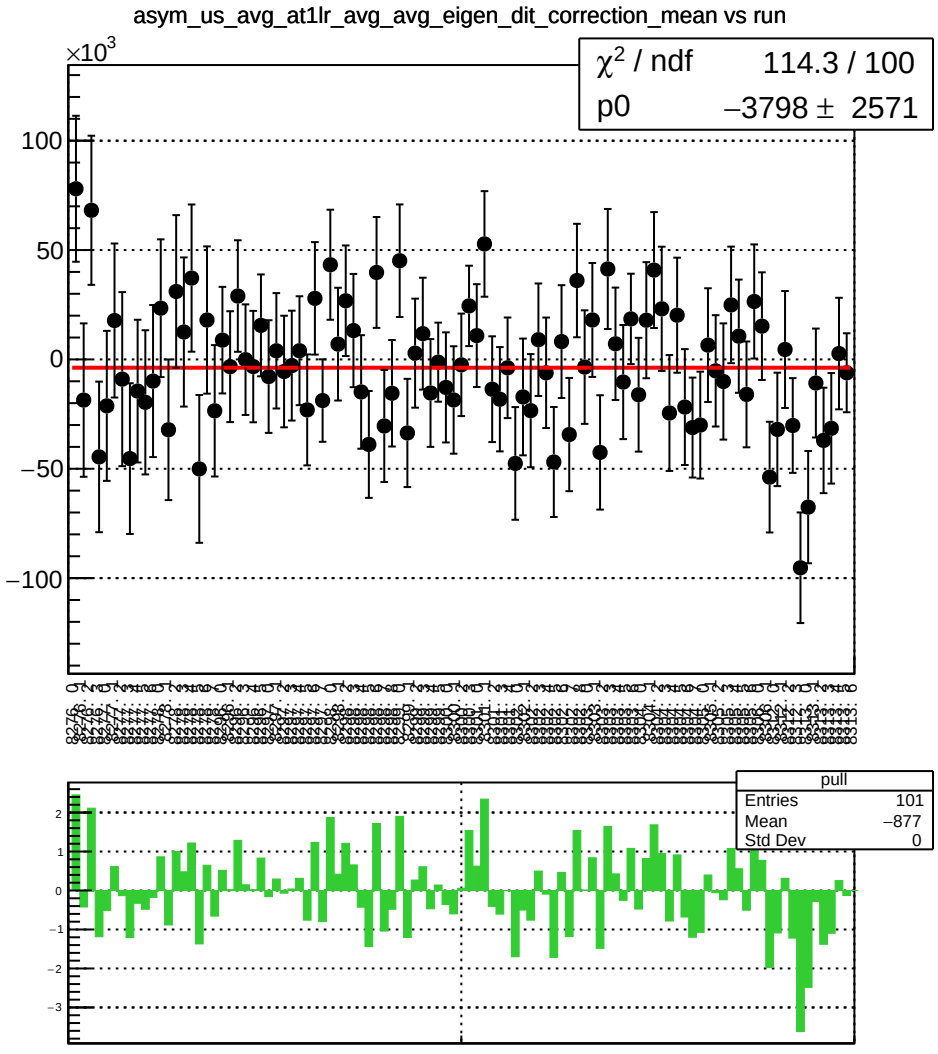

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 114.3 / 100
p0 −3798 ± 2571
100
50
0
−50
−100
pull
Entries 101
Mean −877
Std Dev 0
2
1
0
−1
−2
−3

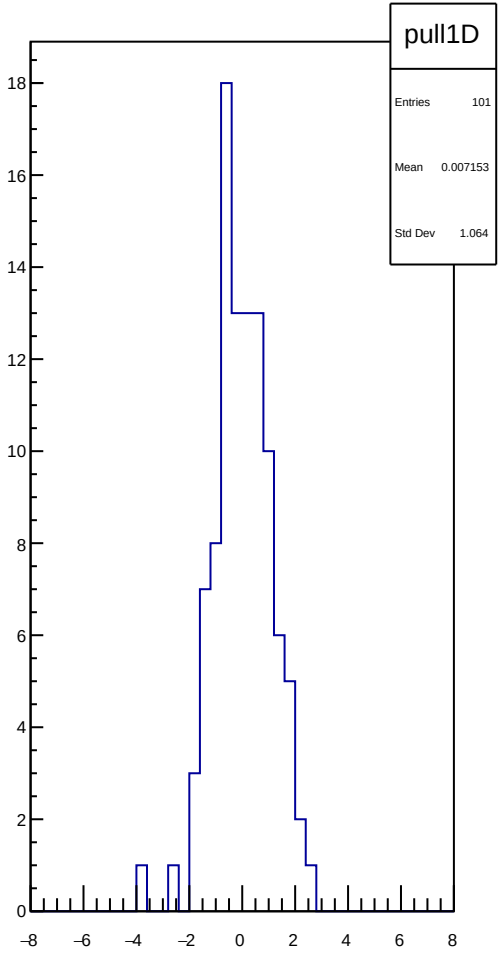

pull1D
Entries 101
Mean 0.007153
Std Dev 1.064
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

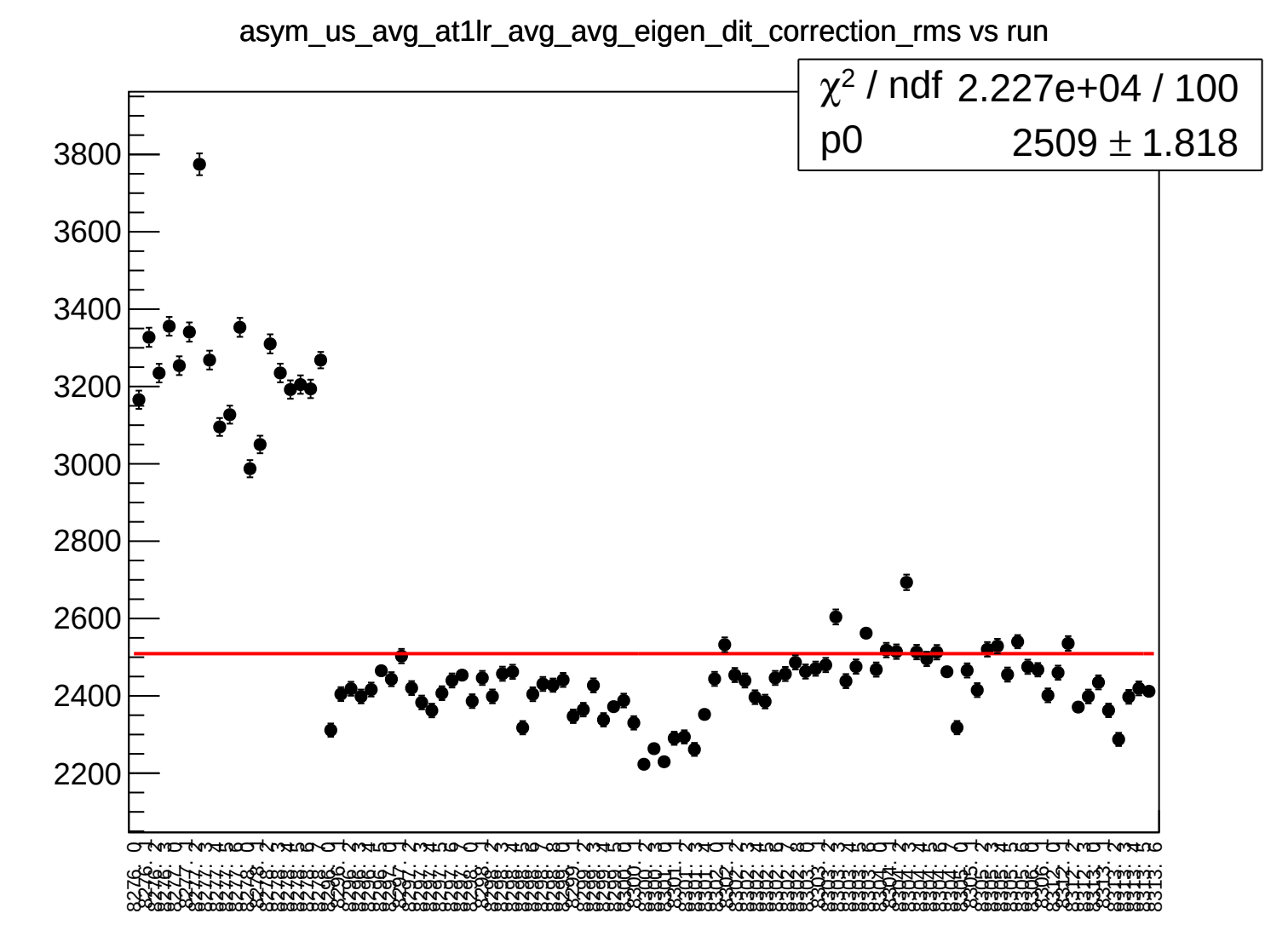

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 2.227e+04 / 100
p0 2509 ± 1.818
3800
3600
3400
3200
3000
2800
2600
2400
2200

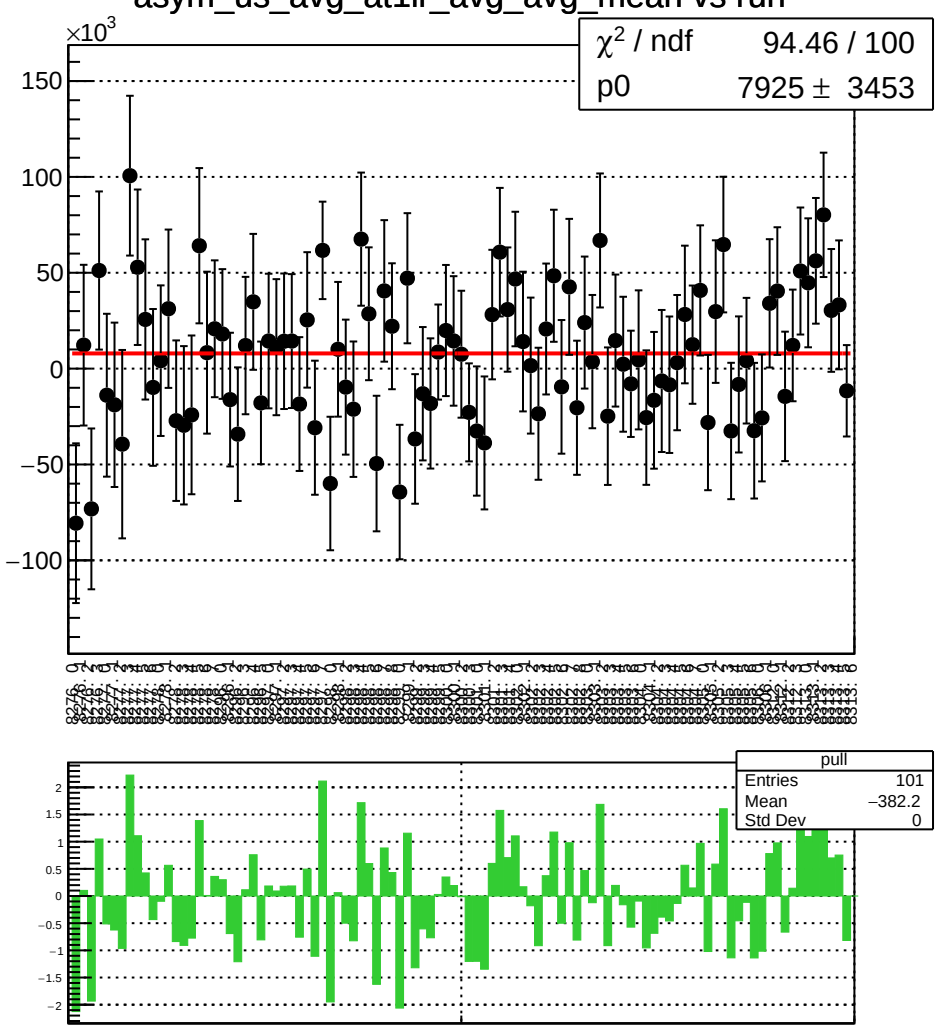

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 88.77 / 100
p0 3862 ± 2224
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 101
Mean 460.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 101
Mean −0.00185
Std Dev 0.9375
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

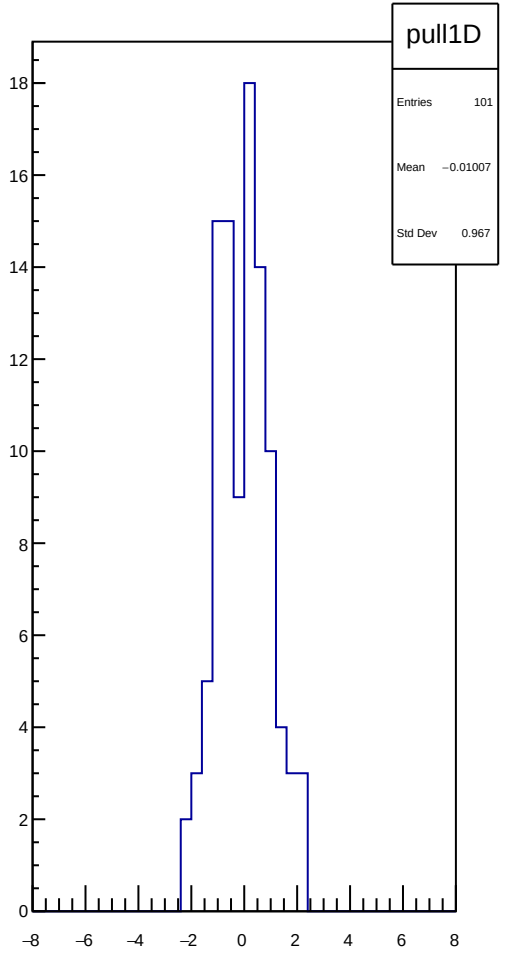

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 254 / 100
p0 2183 ± 1.572
2350
2300
2250
2200
2150
2100

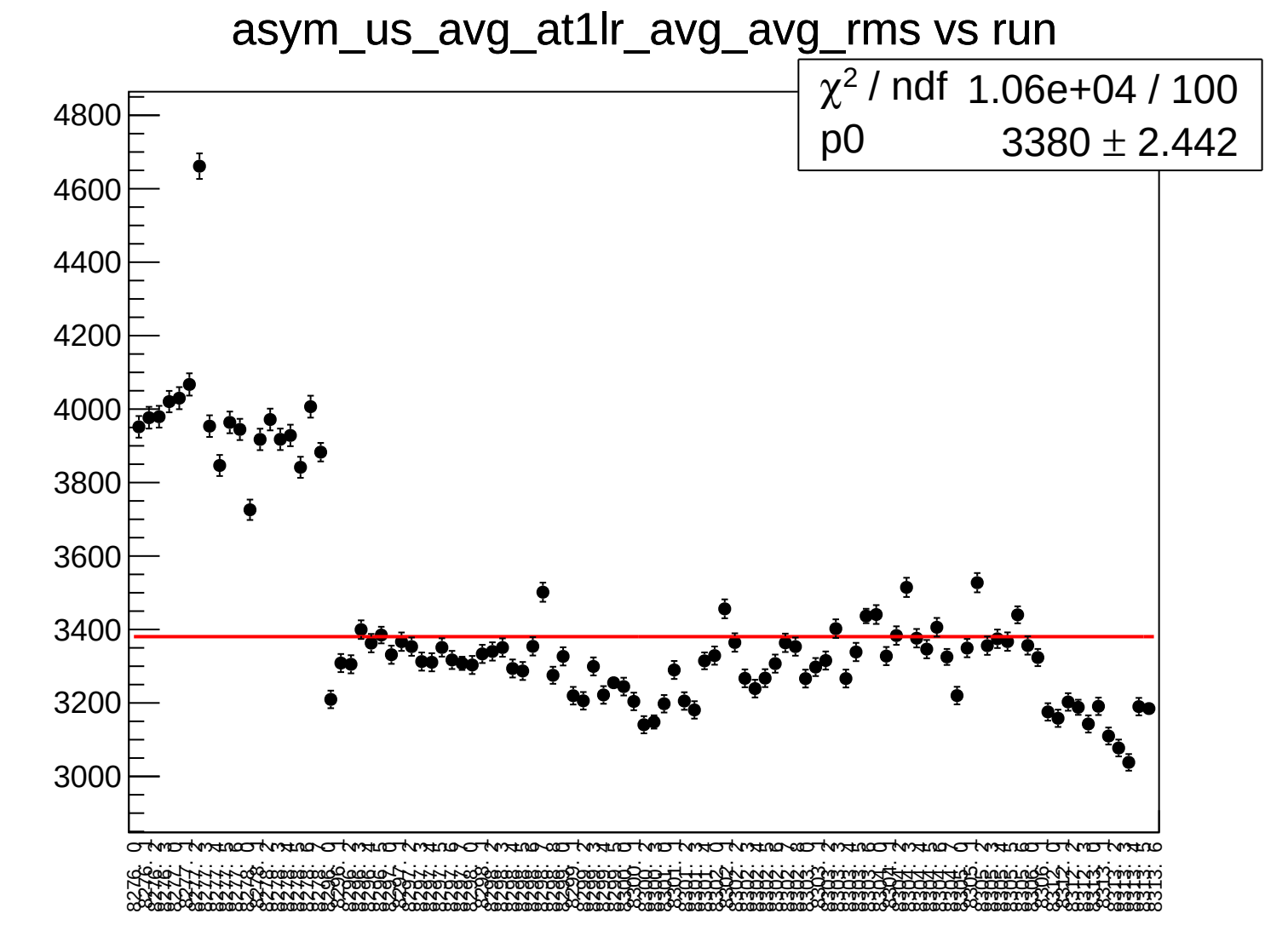

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 114.3 / 100
p0 −3798 ± 2571
100
50
0
−50
−100
pull
Entries 101
Mean −877
Std Dev 0
2
1
0
−1
−2
−3

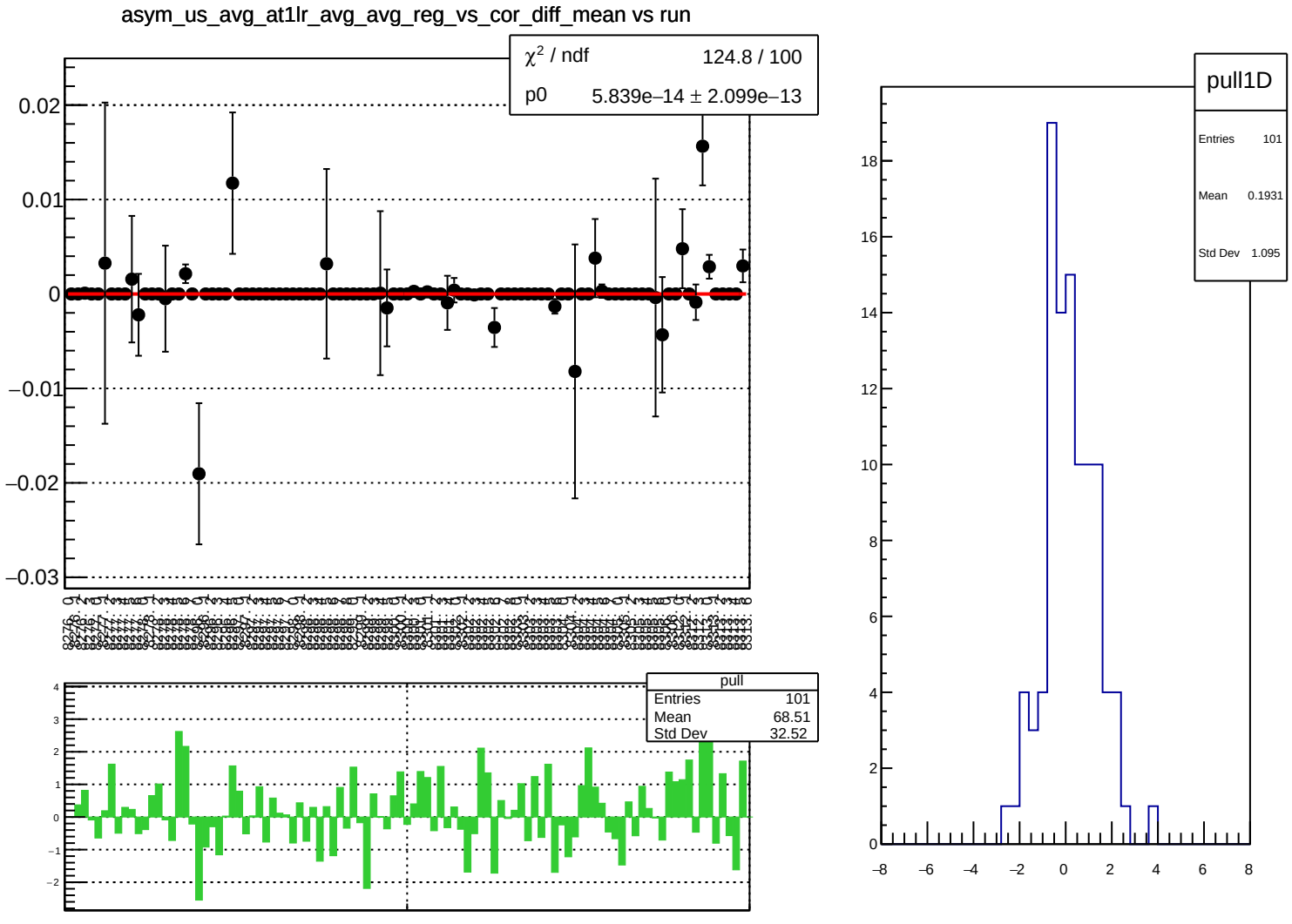

pull1D
Entries 101
Mean 0.007153
Std Dev 1.064
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

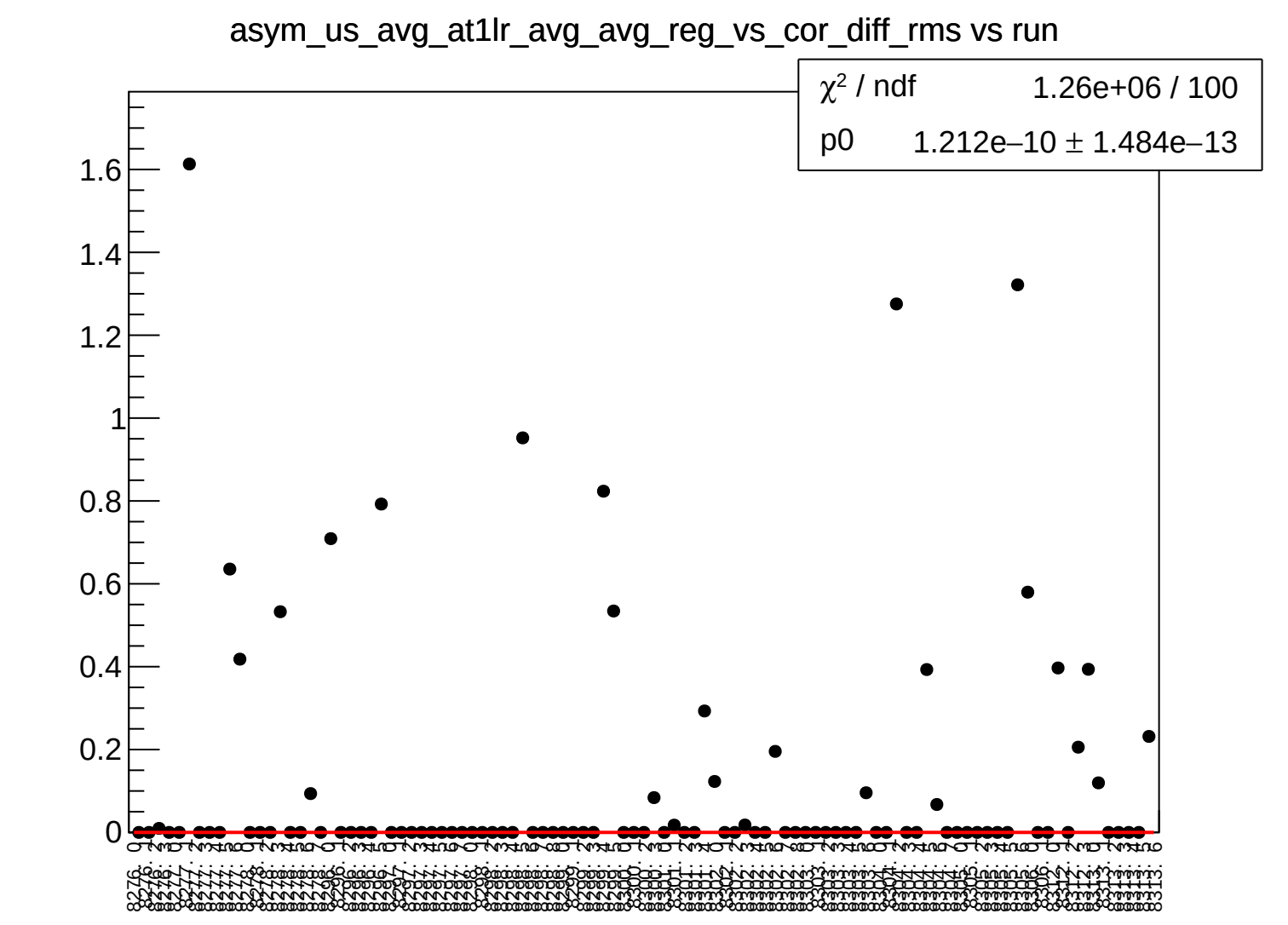

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.227e+04 / 100
p0 2509 ± 1.818
3800
3600
3400
3200
3000
2800
2600
2400
2200

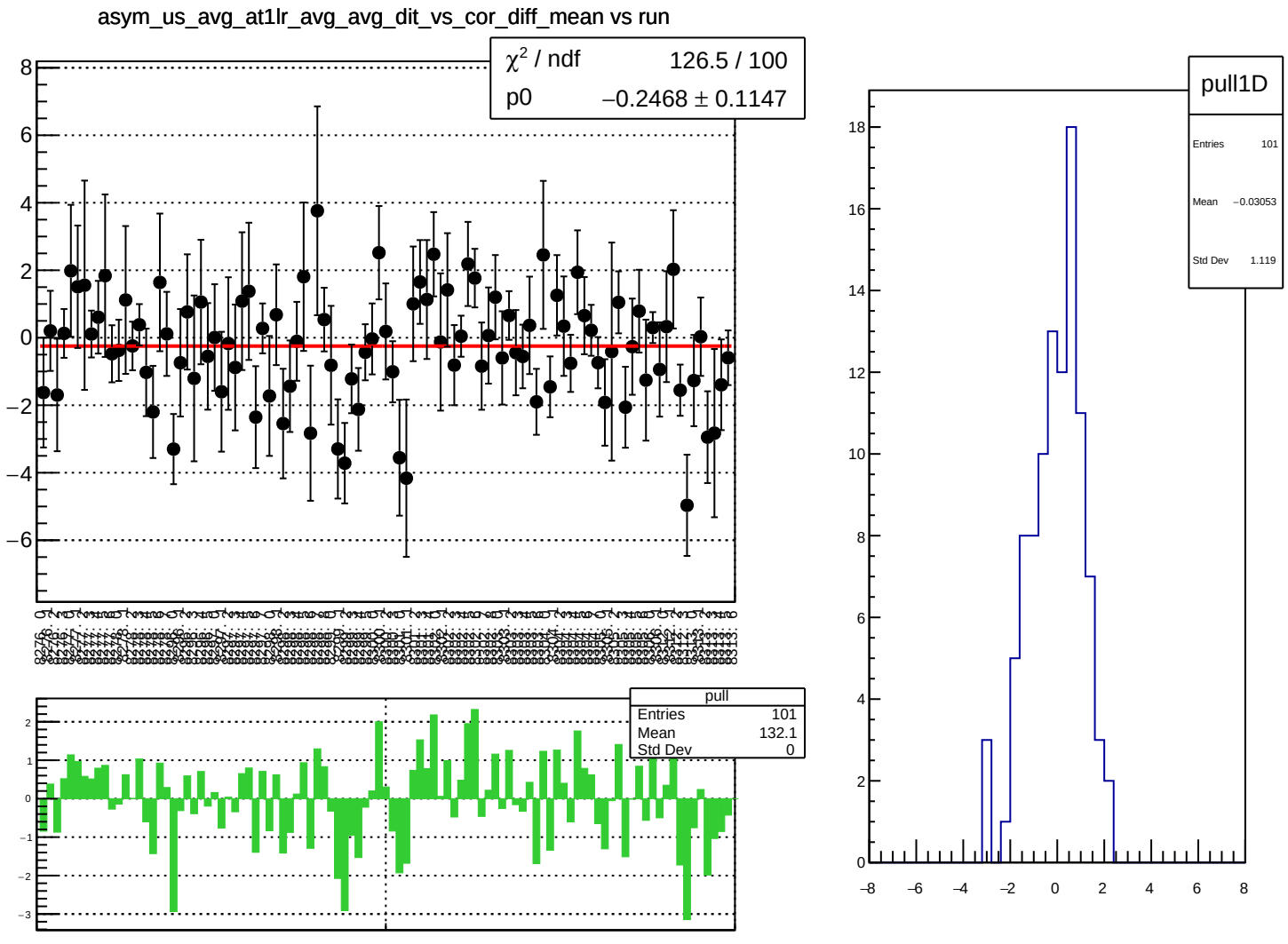

asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 94.46 / 100
p0 7925 ± 3453
150
100
50
0
−50
−100
pull
Entries 101
Mean −382.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

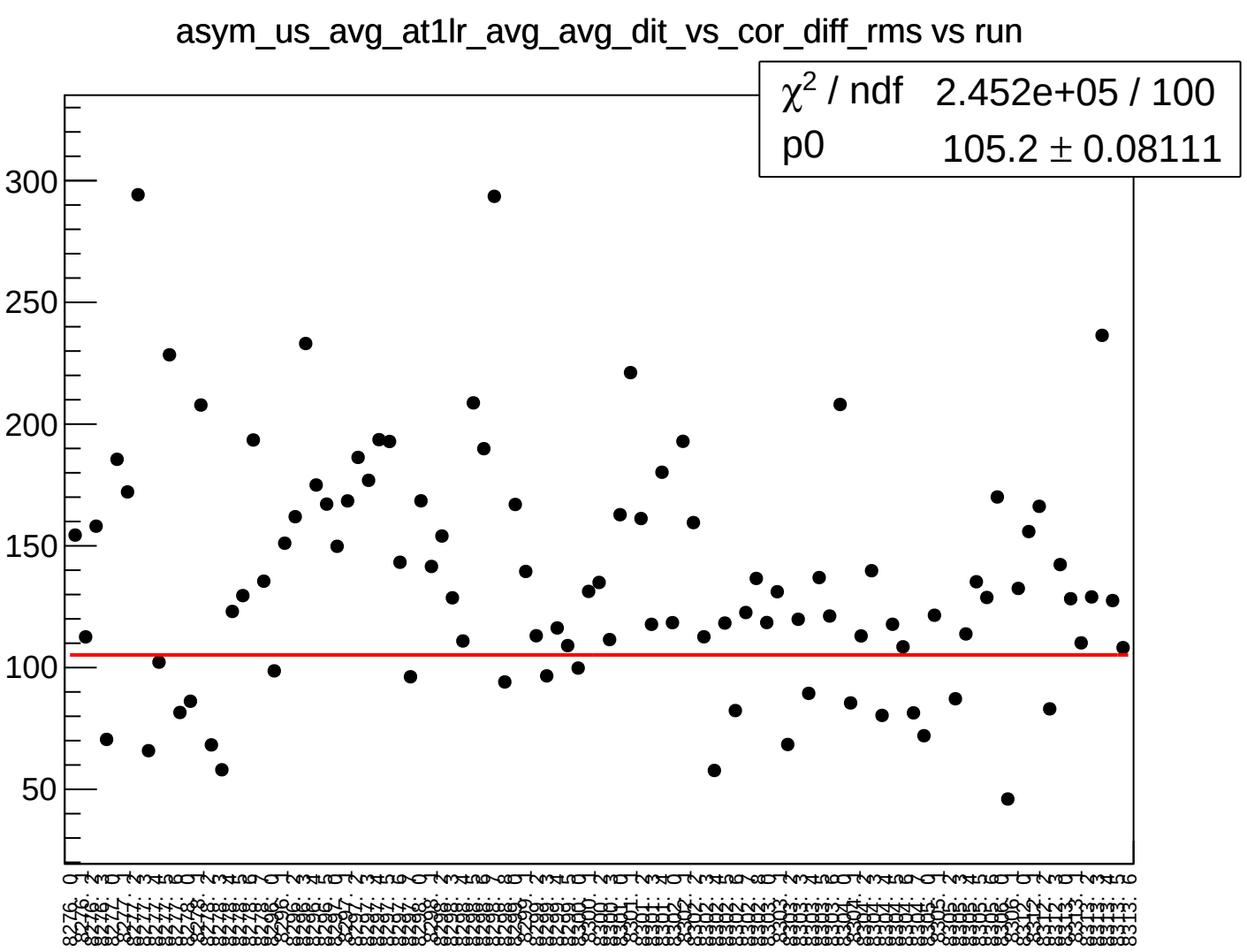

pull1D
Entries 101
Mean −0.01007
Std Dev 0.967
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

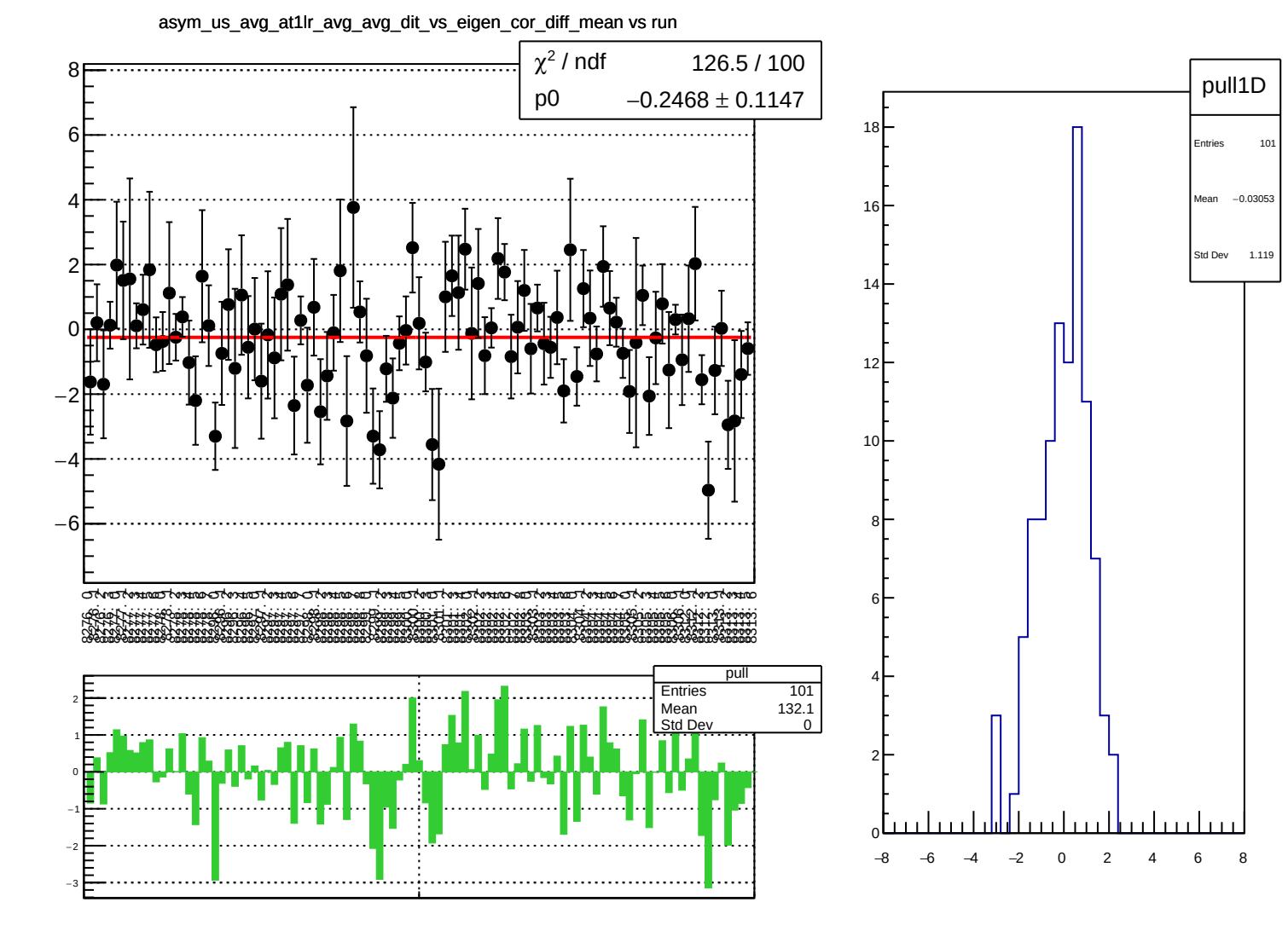

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 1.06e+04 / 100
p0 3380 ± 2.442
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000

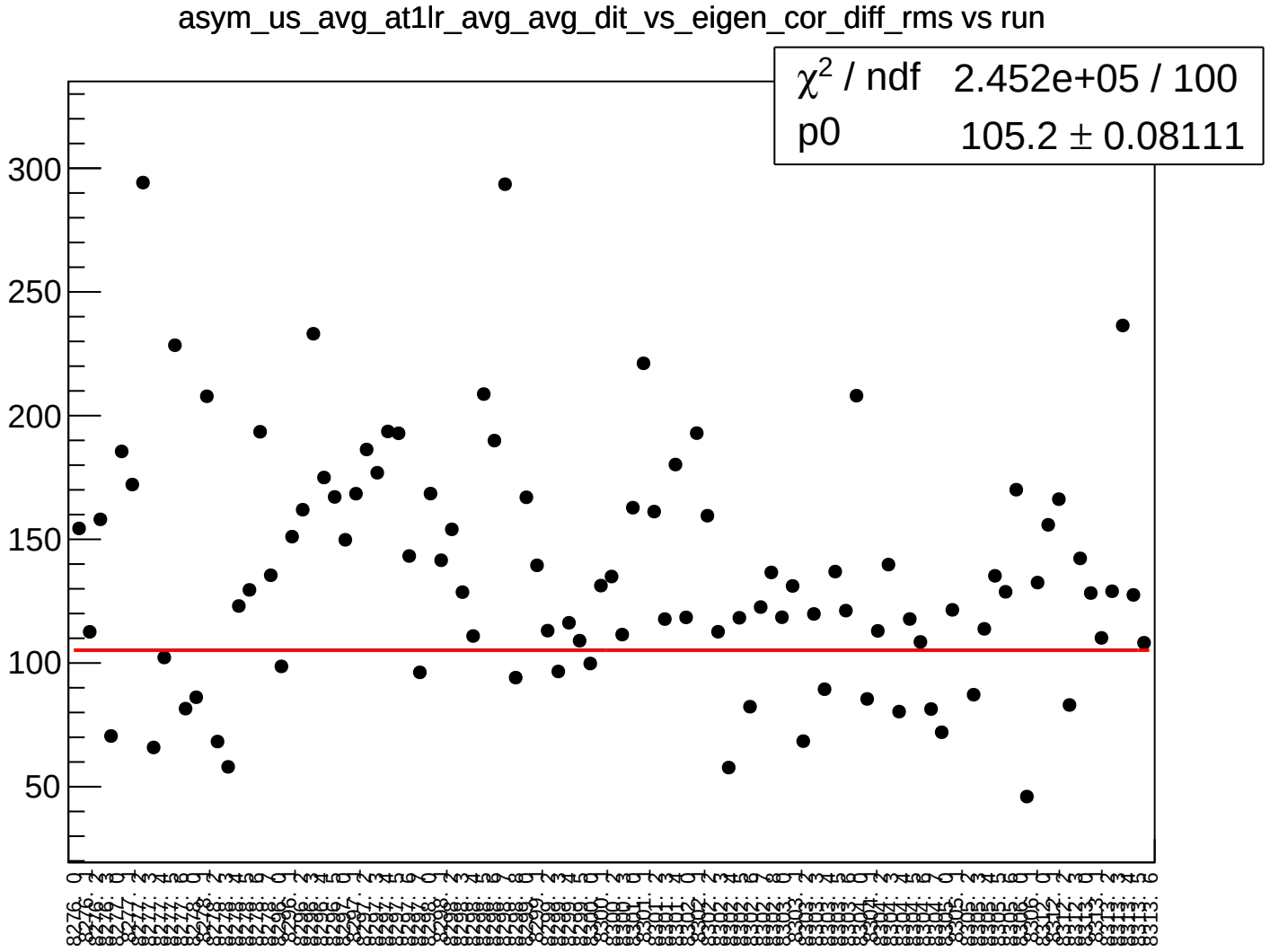

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 124.8 / 100
p0 5.839e−14 ± 2.099e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 101
Mean 68.51
Std Dev 32.52
4
3
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.1931
Std Dev 1.095
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

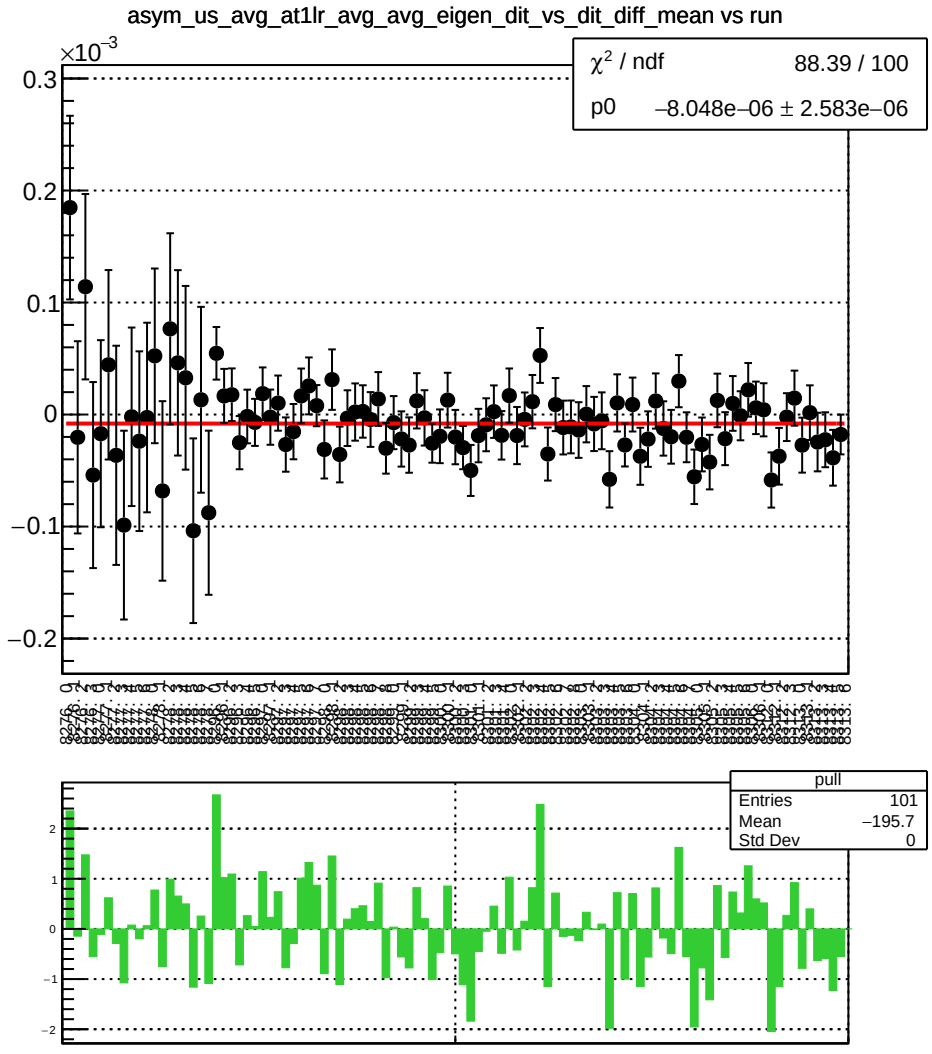

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.26e+06 / 100
p0 1.212e−10 ± 1.484e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

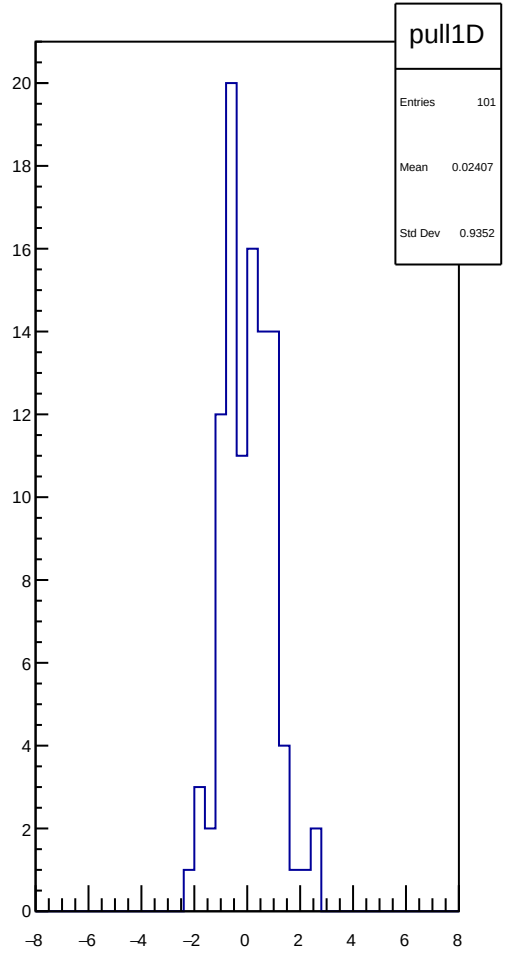

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 126.5 / 100
p0 −0.2468 ± 0.1147
pull
Entries 101
Mean 132.1
Std Dev 0
pull1D
Entries 101
Mean −0.03053
Std Dev 1.119

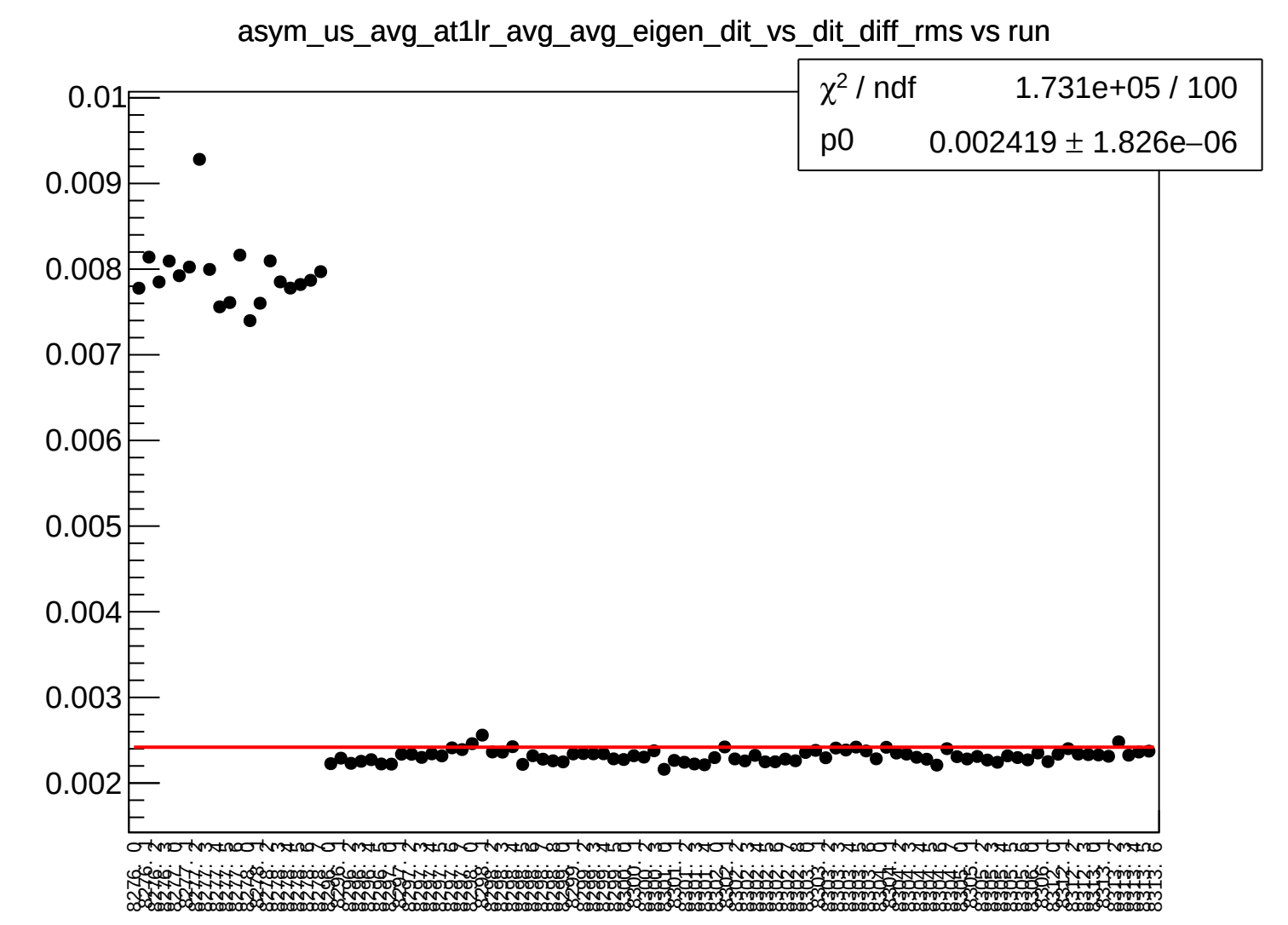

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.452e+05 / 100
p0 105.2 ± 0.08111
300
250
200
150
100
50

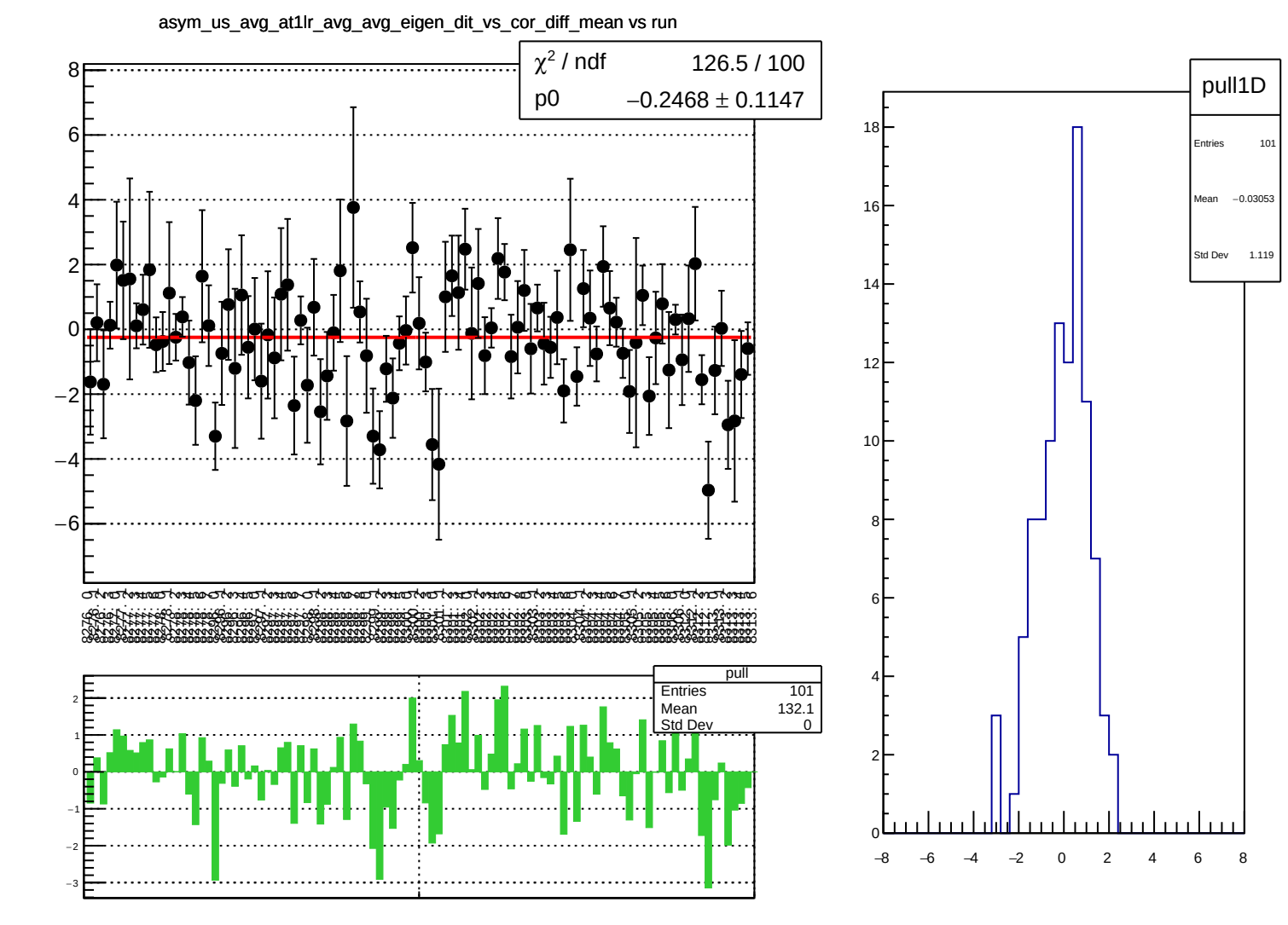

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 126.5 / 100
p0 −0.2468 ± 0.1147
pull
Entries 101
Mean 132.1
Std Dev 0
pull1D
Entries 101
Mean −0.03053
Std Dev 1.119

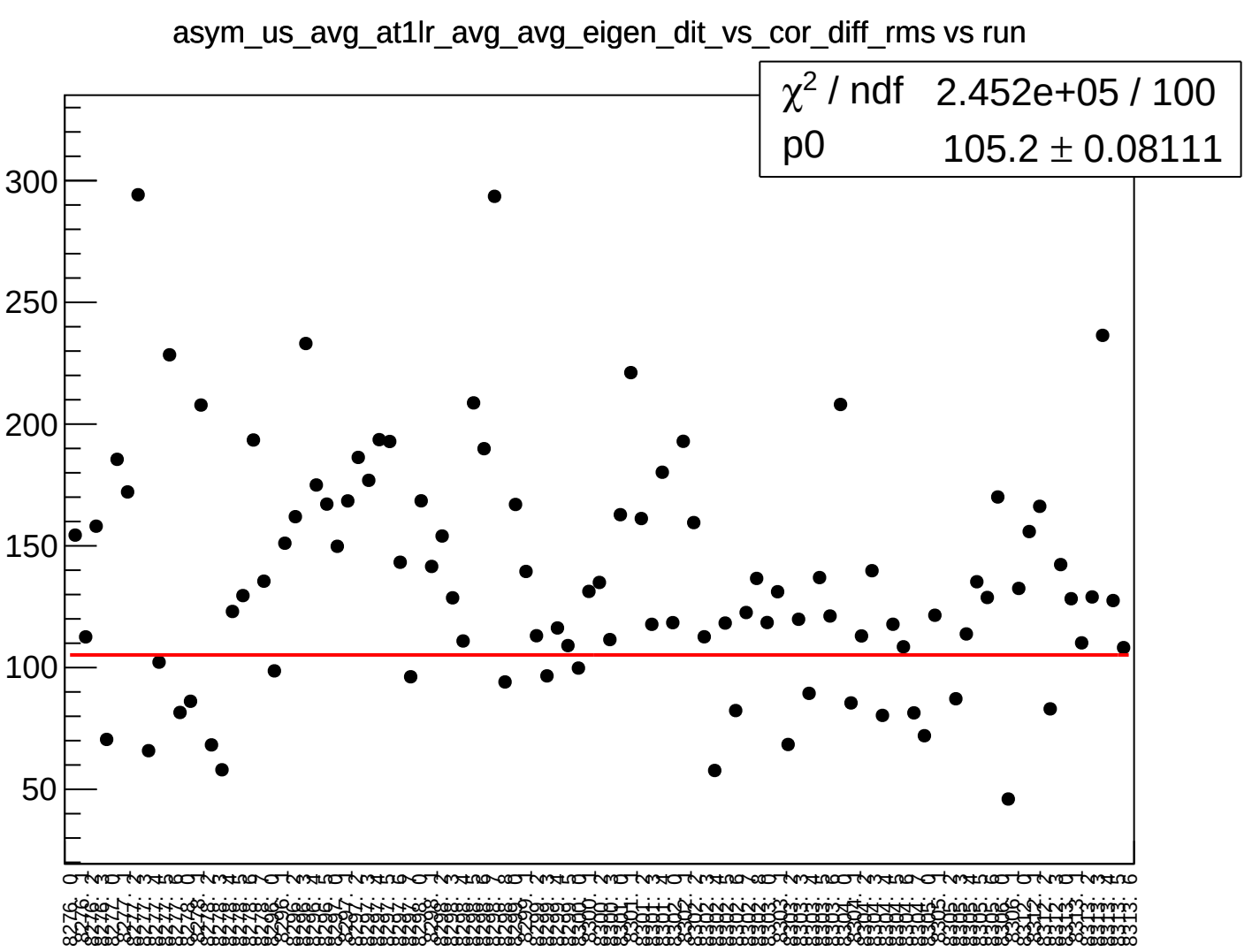

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.452e+05 / 100
p0 105.2 ± 0.08111
300
250
200
150
100
50

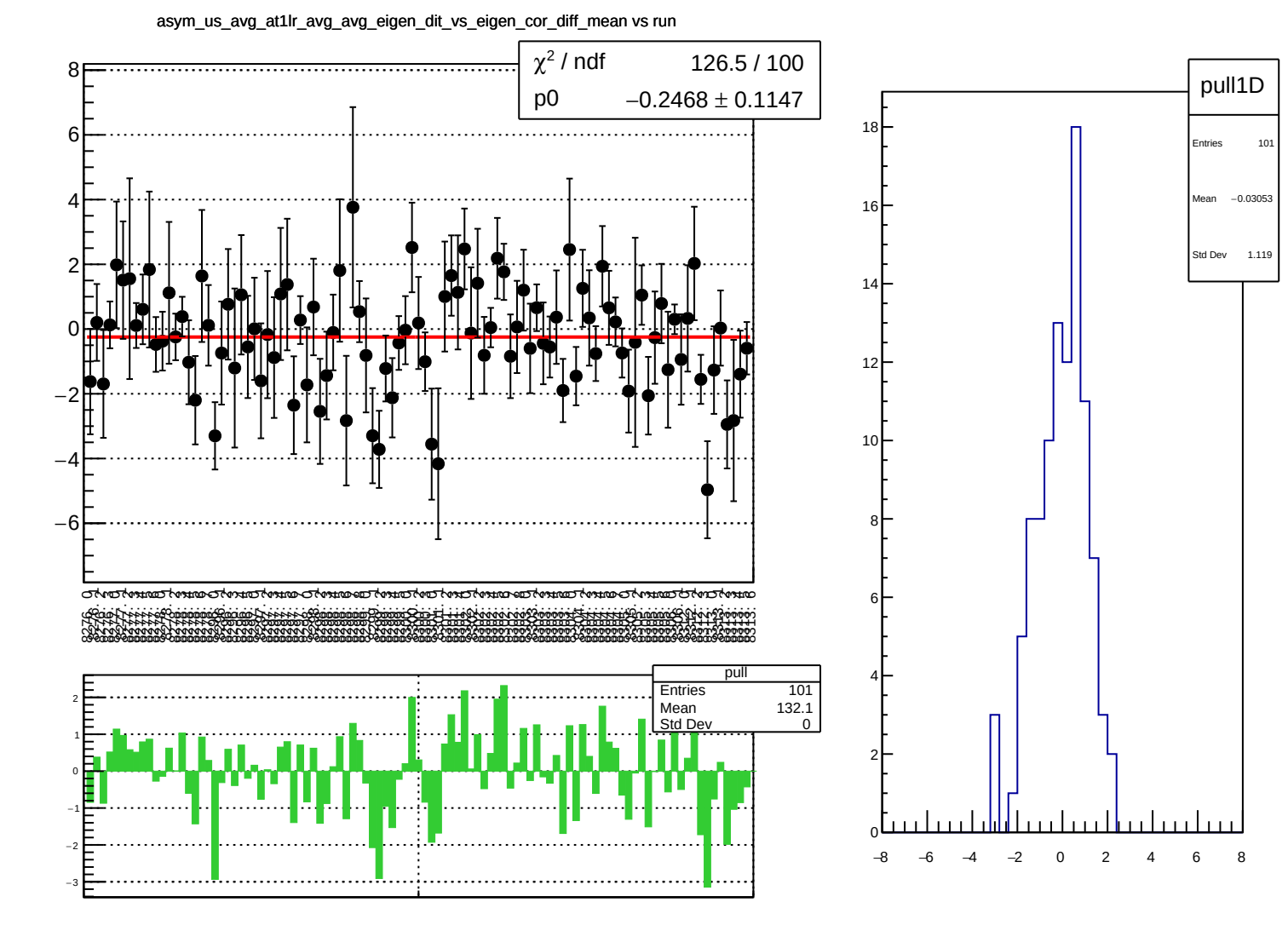

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 88.39 / 100
p0 −8.048e−06 ± 2.583e−06
pull
Entries 101
Mean −195.7
Std Dev 0

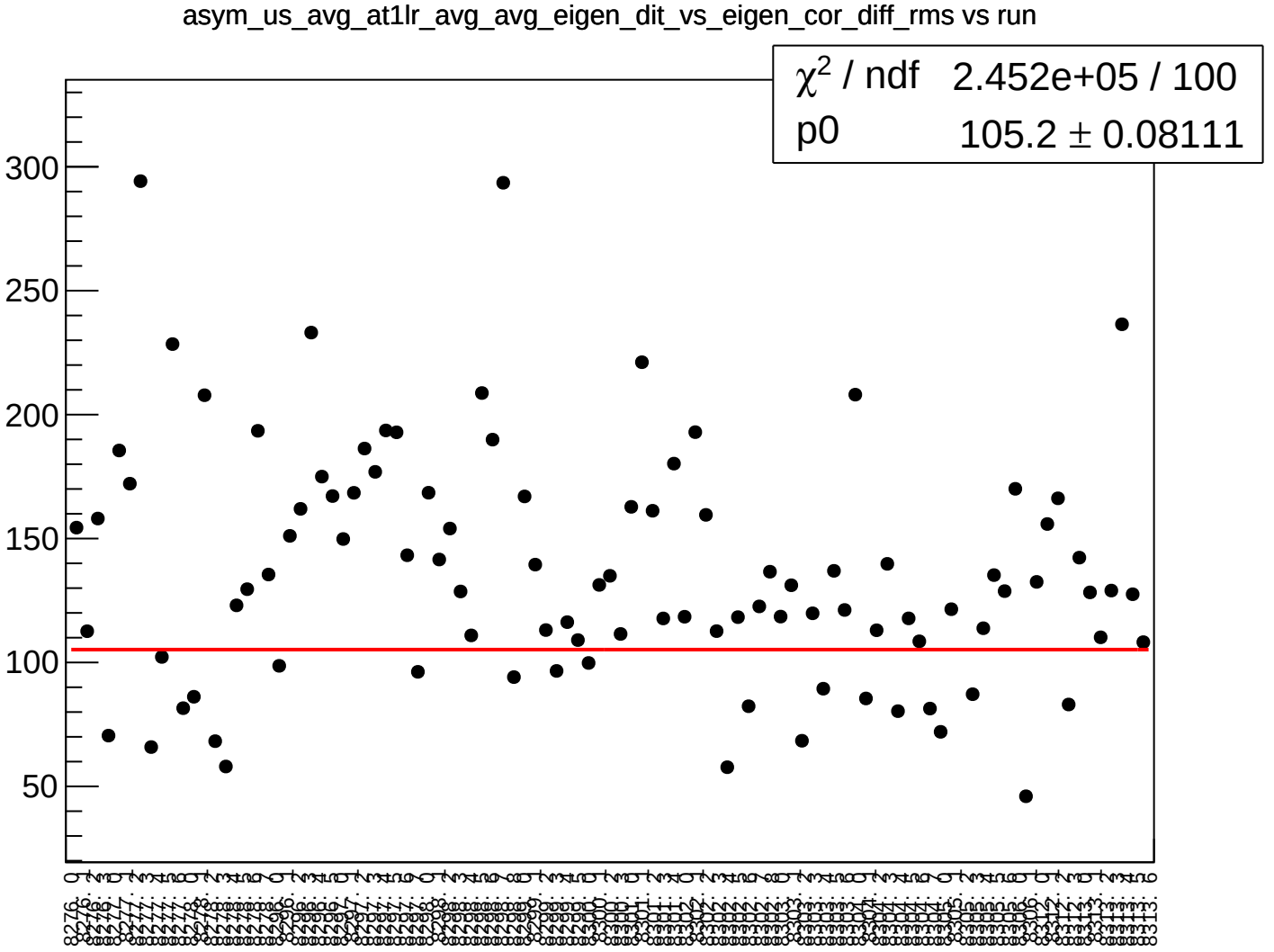

pull1D
Entries 101
Mean 0.02407
Std Dev 0.9352

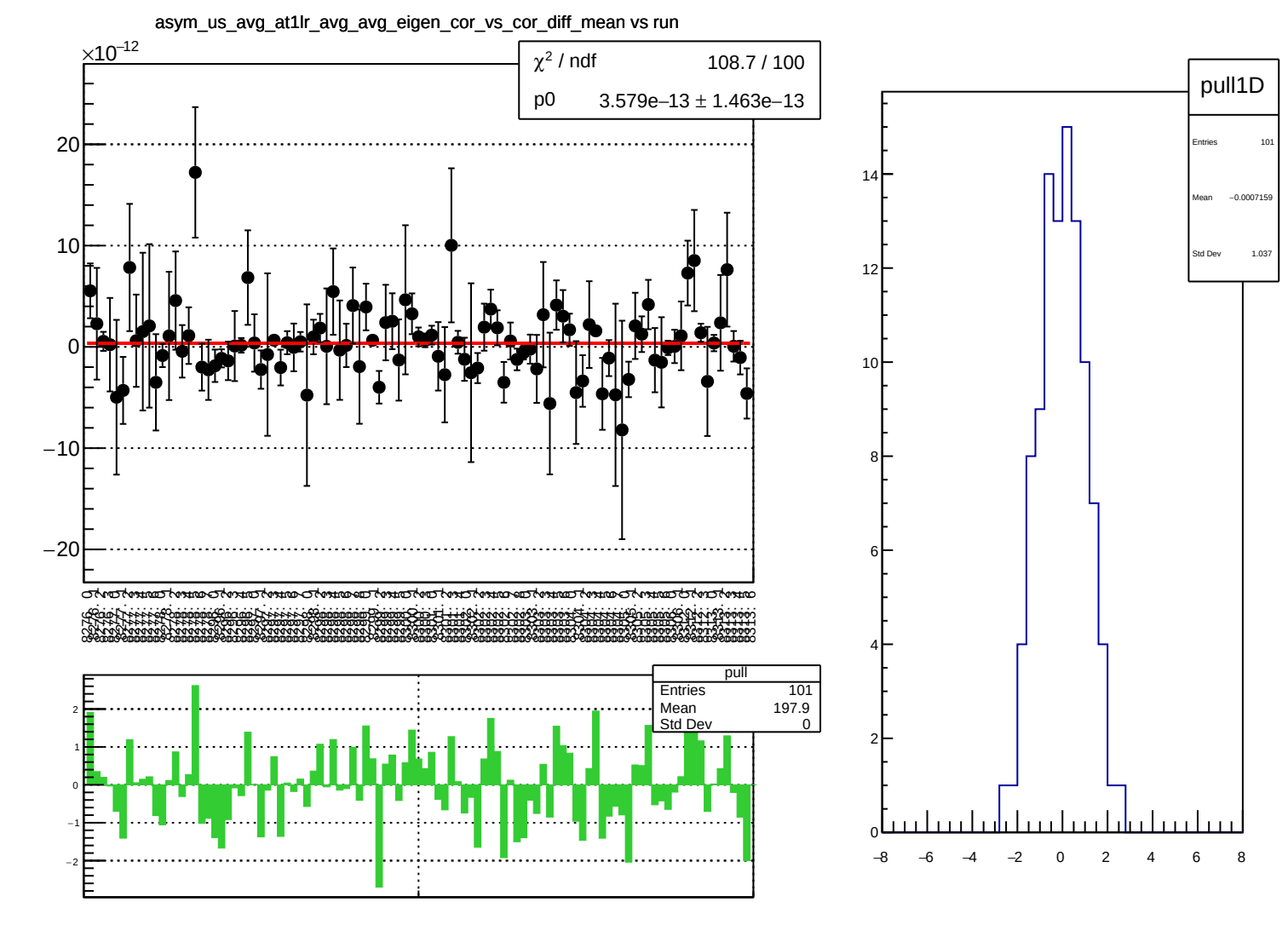

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.731e+05 / 100
p0 0.002419 ± 1.826e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

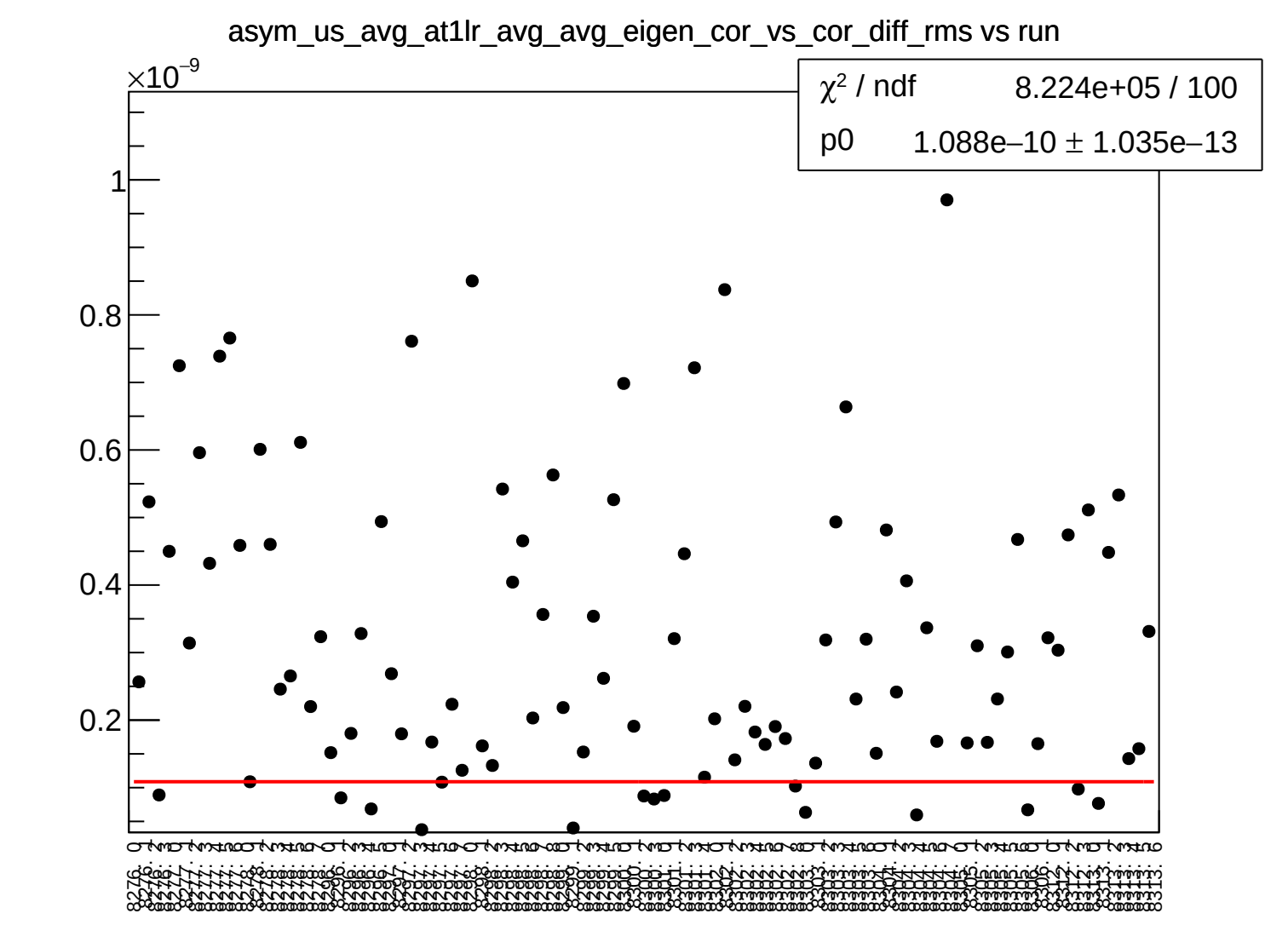

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 126.5 / 100
p0 −0.2468 ± 0.1147
pull
Entries 101
Mean 132.1
Std Dev 0
pull1D
Entries 101
Mean −0.03053
Std Dev 1.119

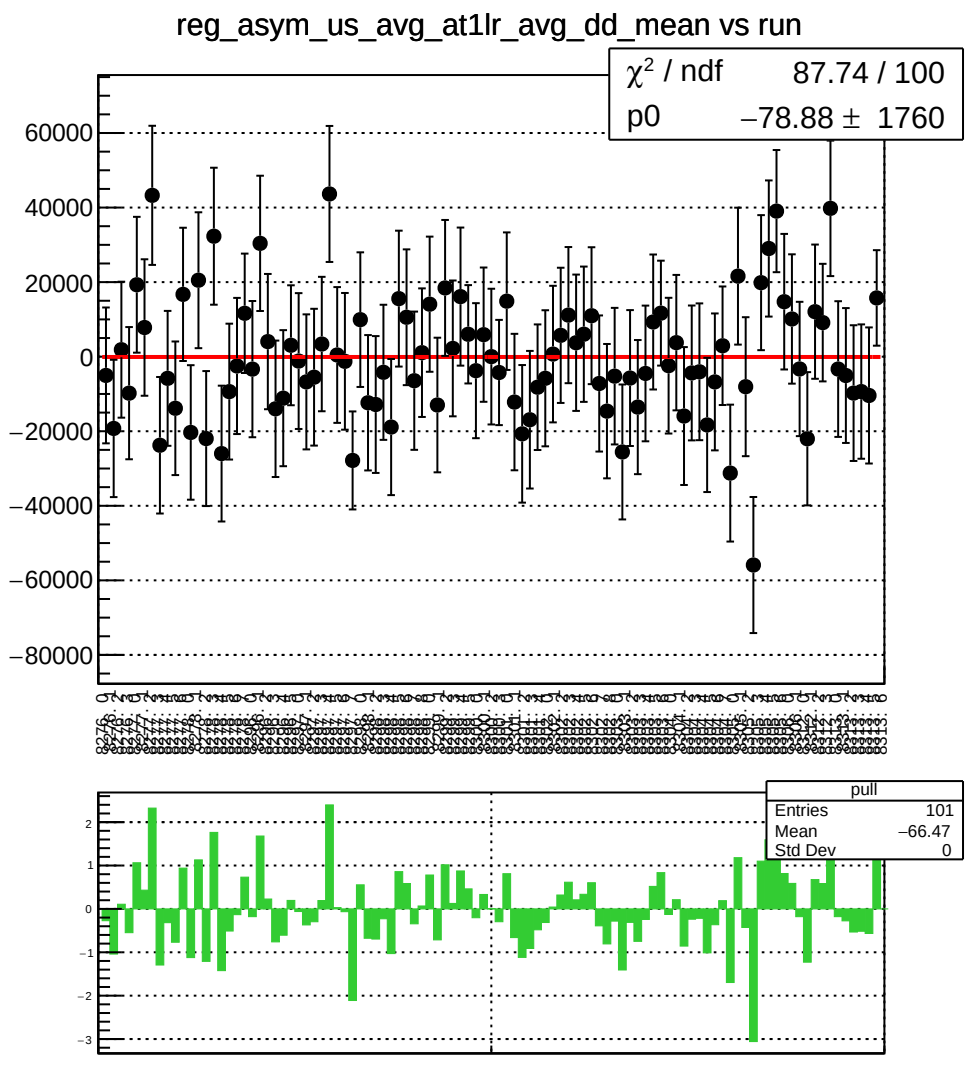

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.452e+05 / 100
p0 105.2 ± 0.08111
300
250
200
150
100
50

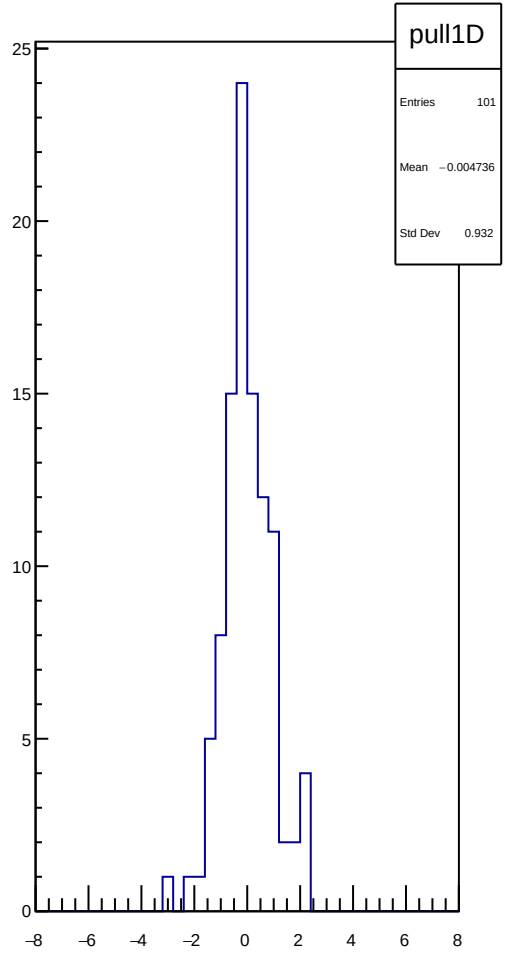

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 126.5 / 100
p0 −0.2468 ± 0.1147
pull
Entries 101
Mean 132.1
Std Dev 0
pull1D
Entries 101
Mean −0.03053
Std Dev 1.119

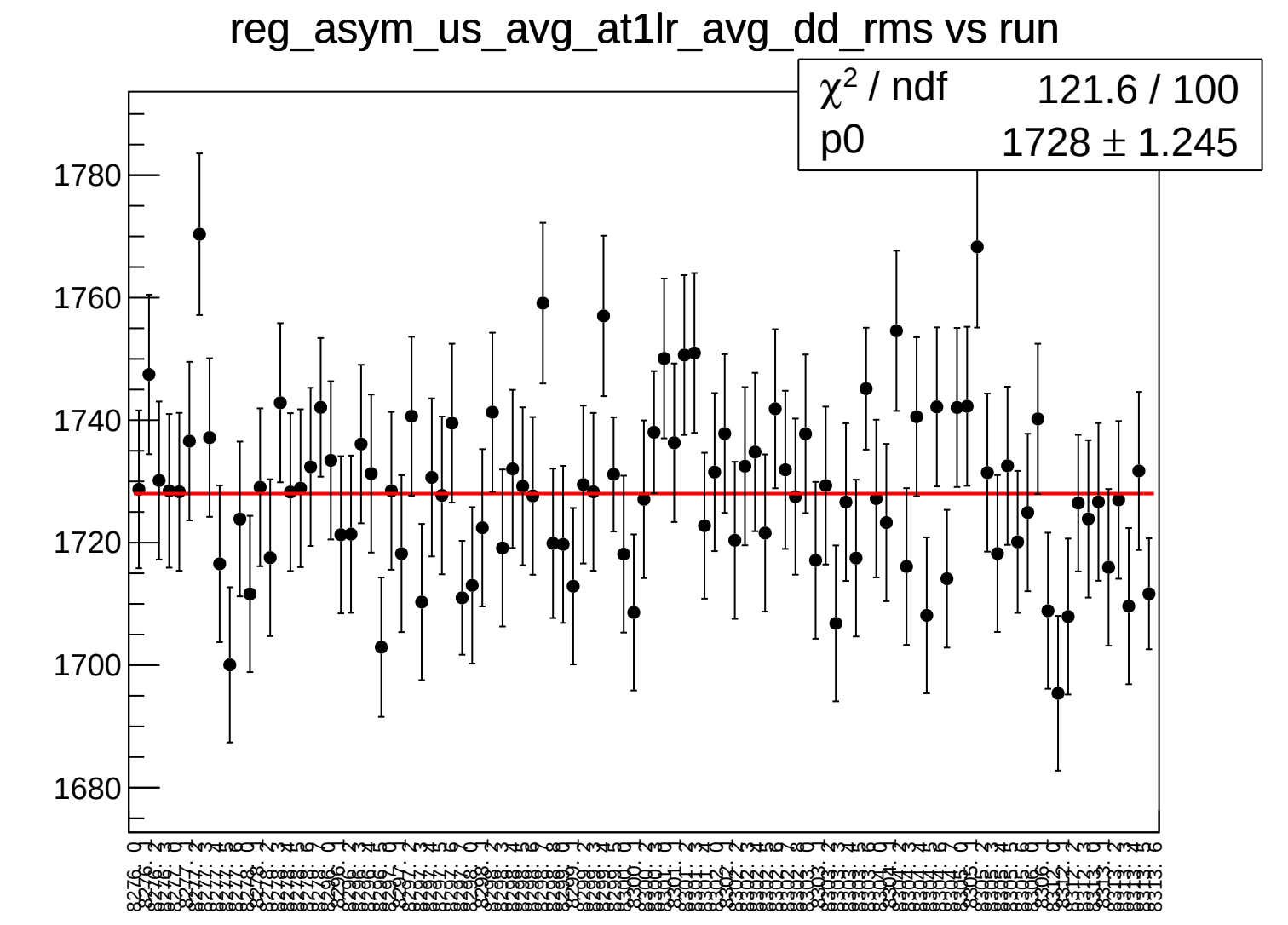

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.452e+05 / 100
p0 105.2 ± 0.08111
300
250
200
150
100
50

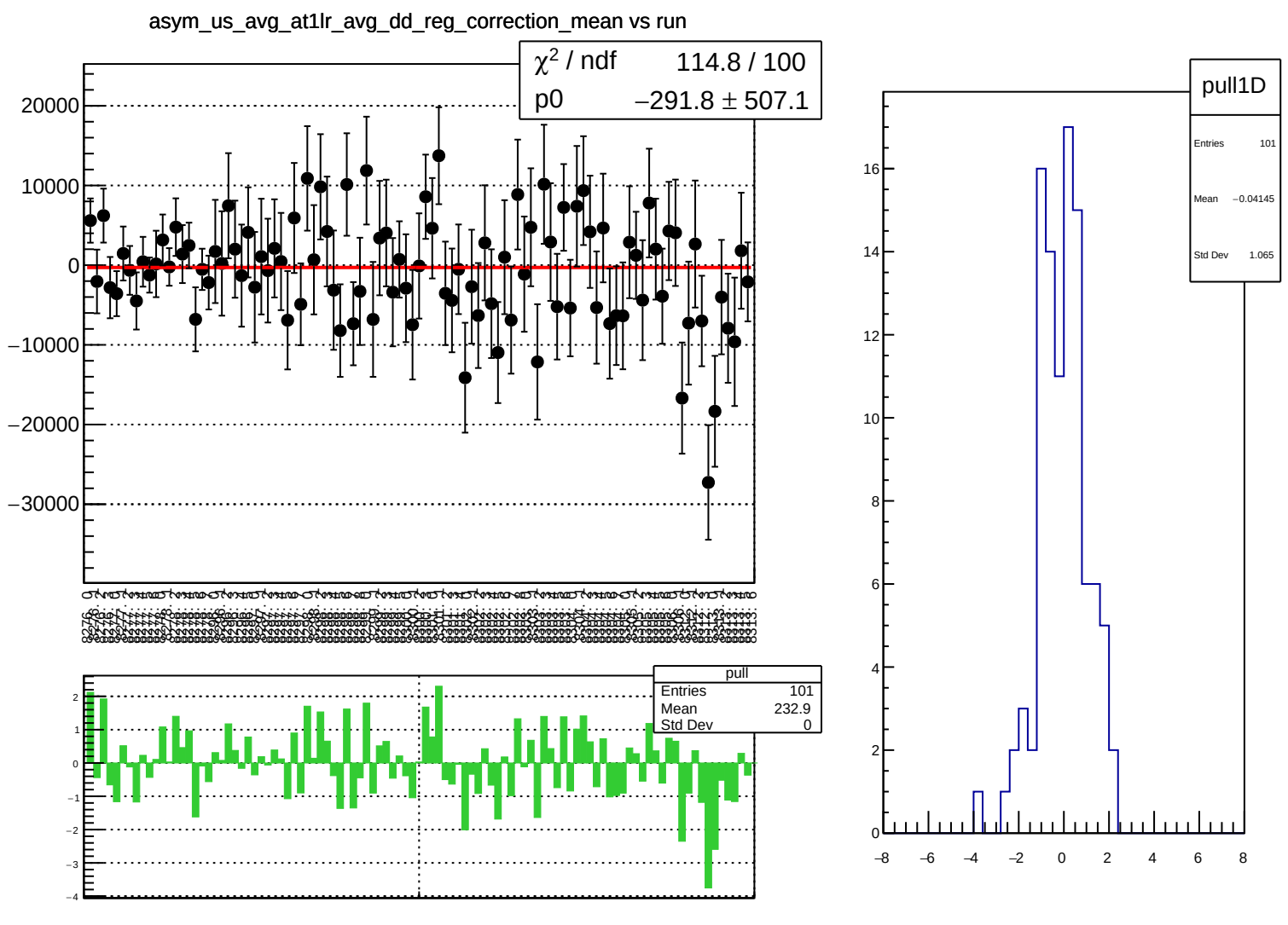

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 108.7 / 100
p0 3.579e−13 ± 1.463e−13
20
10
0
−10
−20
pull
Entries 101
Mean 197.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.0007159
Std Dev 1.037
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

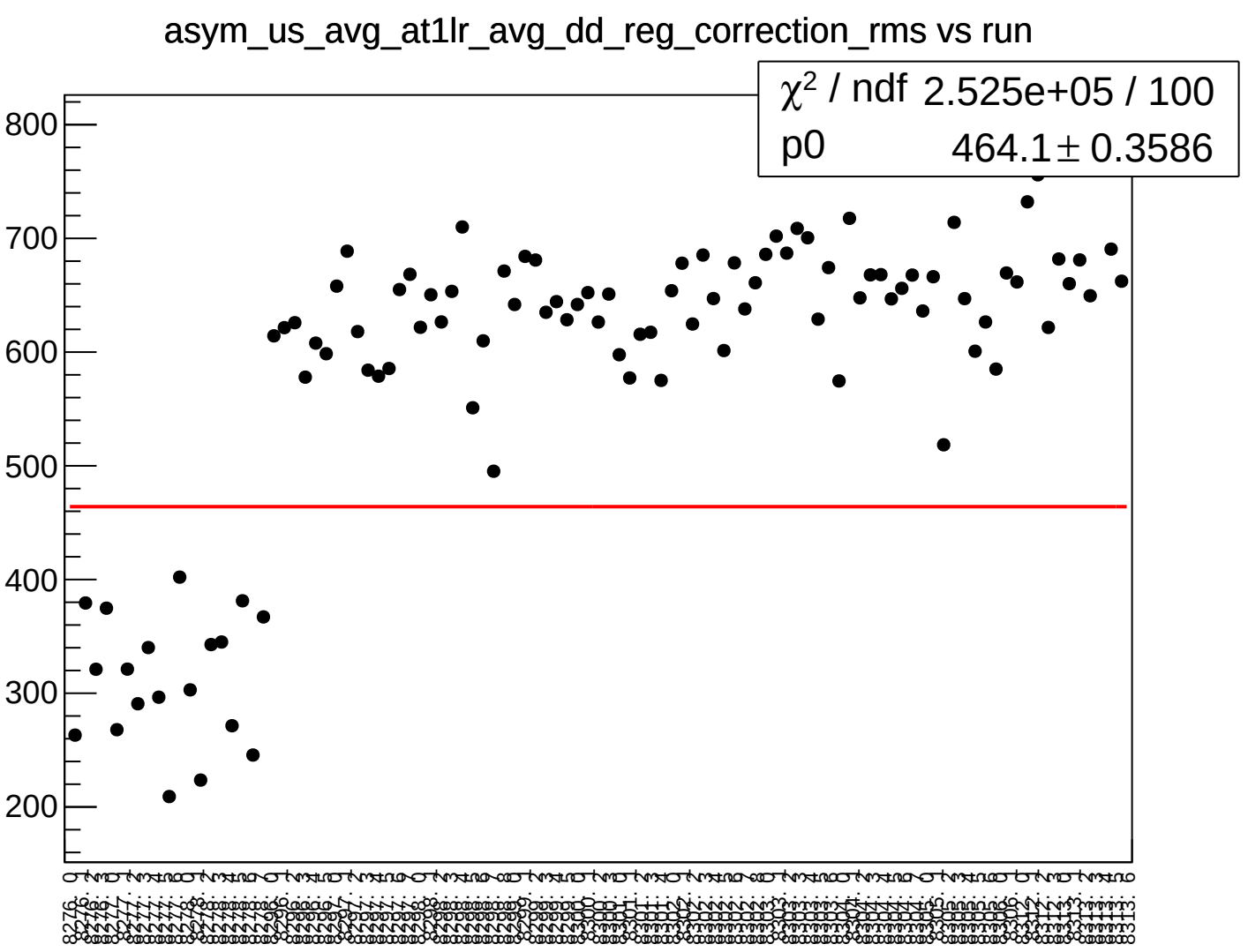

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.224e+05 / 100
p0 1.088e−10 ± 1.035e−13
1
0.8
0.6
0.4
0.2

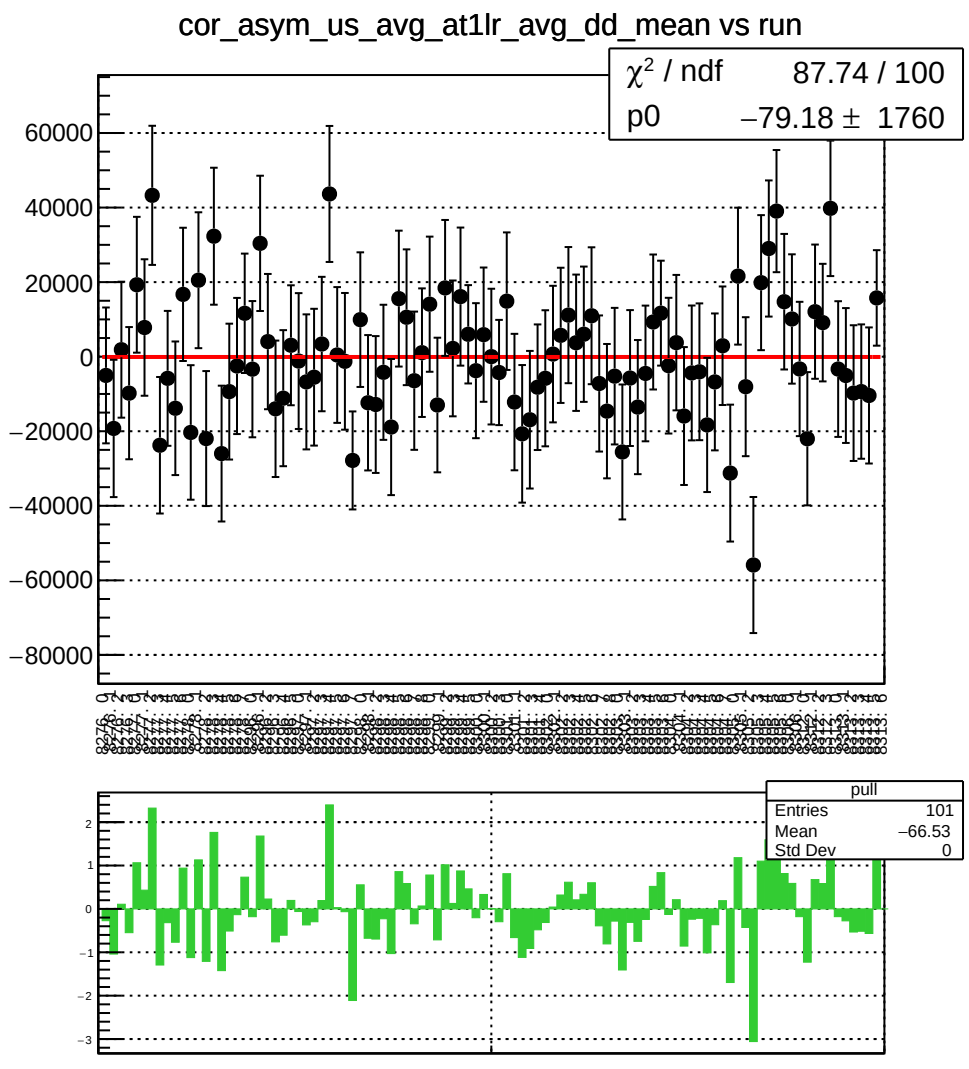

reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 87.74 / 100
p0 −78.88 ± 1760
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 101
Mean −66.47
Std Dev 0
2
1
0
−1
−2
−3

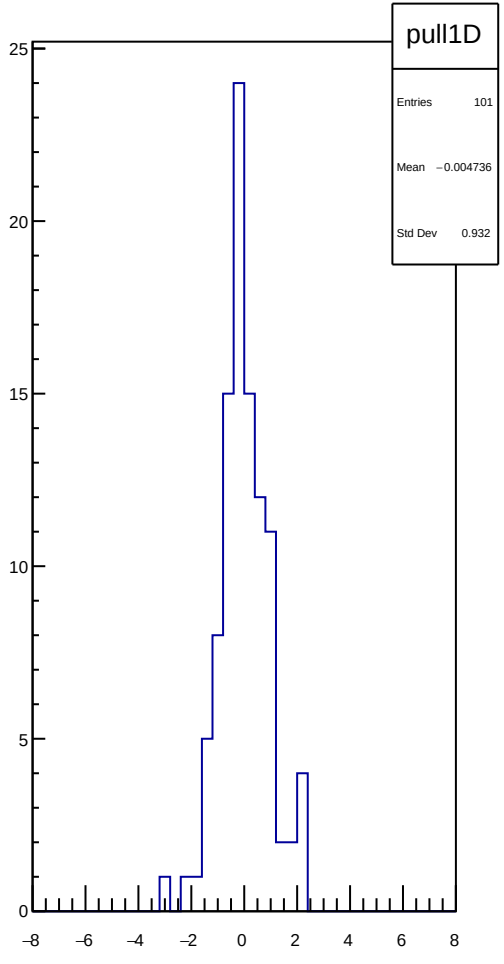

pull1D
Entries 101
Mean −0.004736
Std Dev 0.932
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 121.6 / 100
p0 1728 ± 1.245
1780
1760
1740
1720
1700
1680


asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 114.8 / 100
p0 −291.8 ± 507.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 101
Mean 232.9
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 101
Mean −0.04145
Std Dev 1.065
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 2.525e+05 / 100
p0 464.1 ± 0.3586
800
700
600
500
400
300
200


cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 87.74 / 100
p0 −79.18 ± 1760
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 101
Mean −66.53
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 101
Mean −0.004736
Std Dev 0.932
25
20
15
10
5
0
−8
−6
−4
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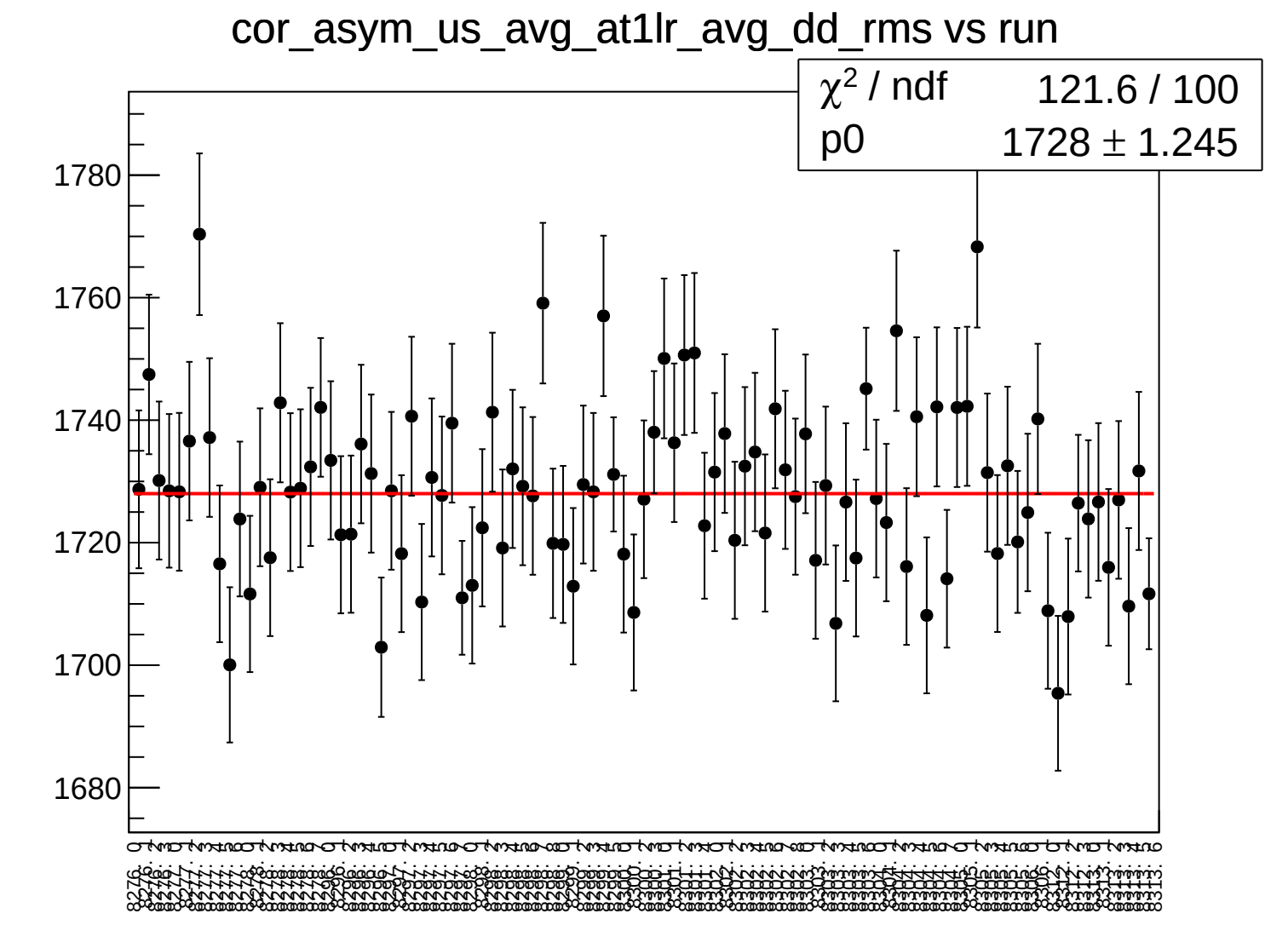
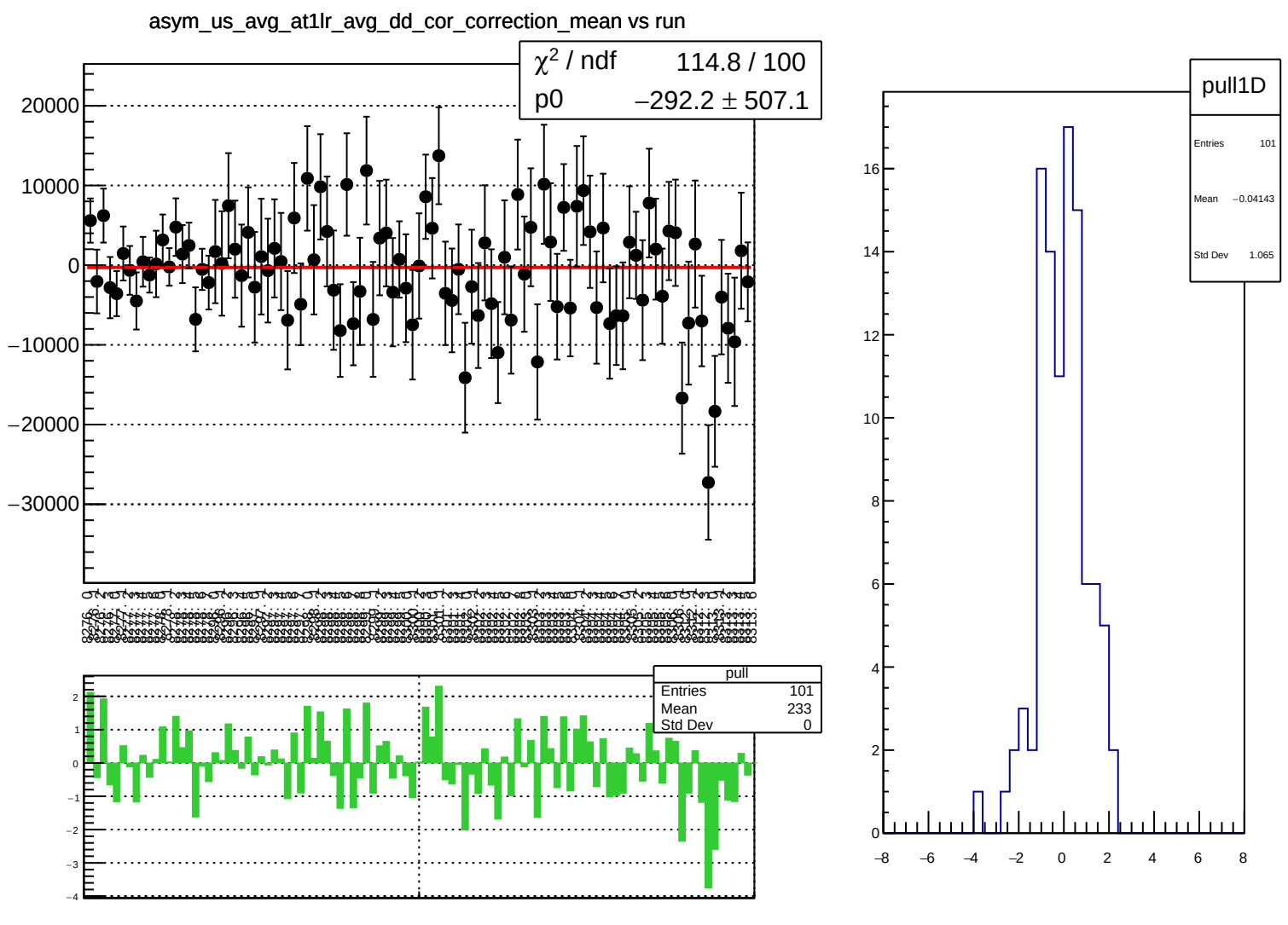
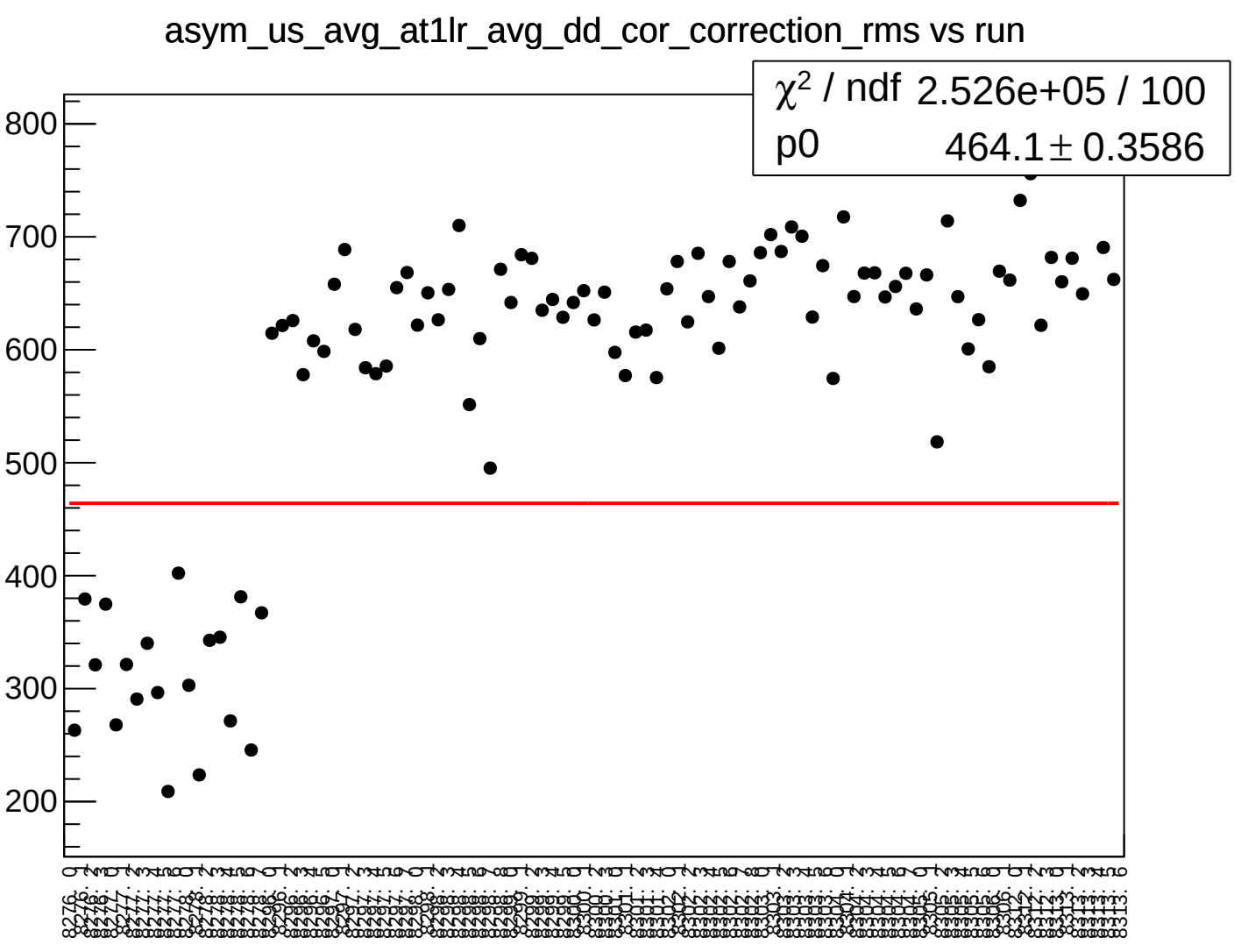
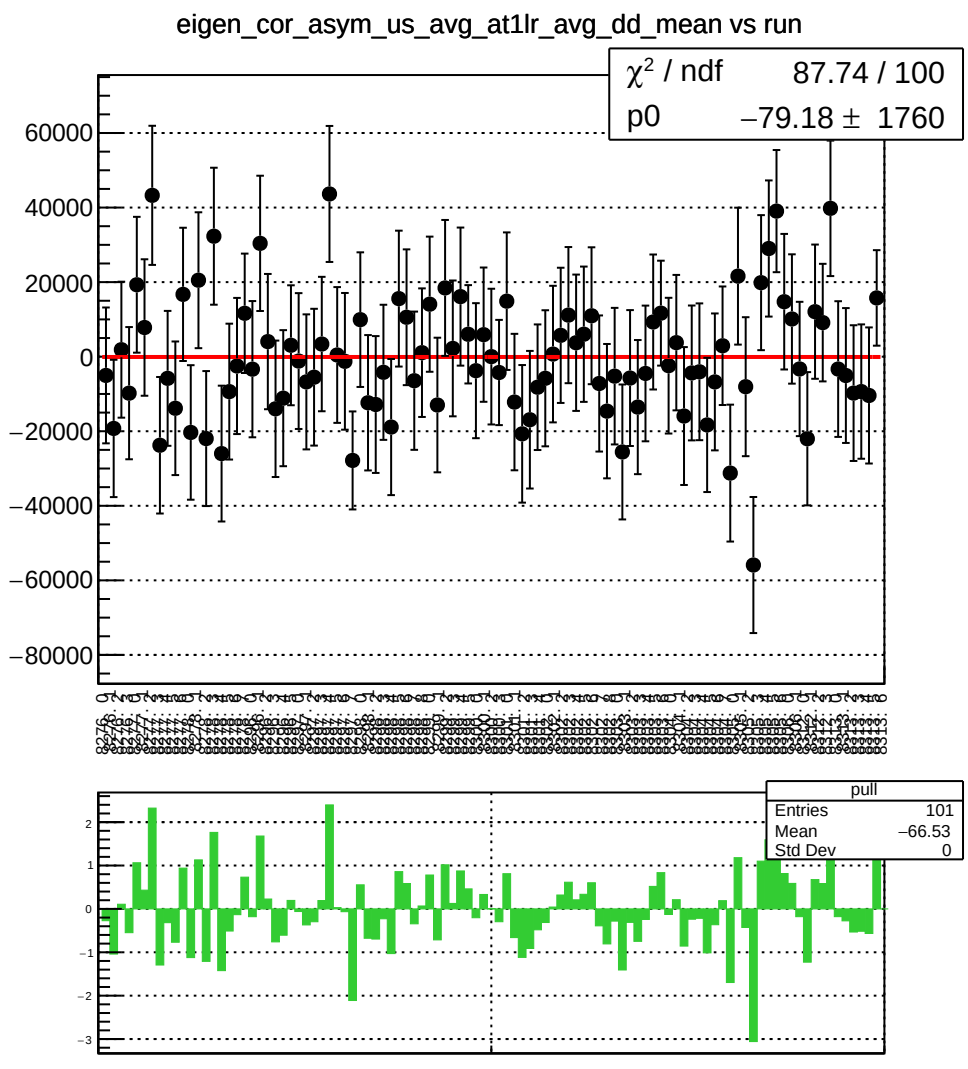
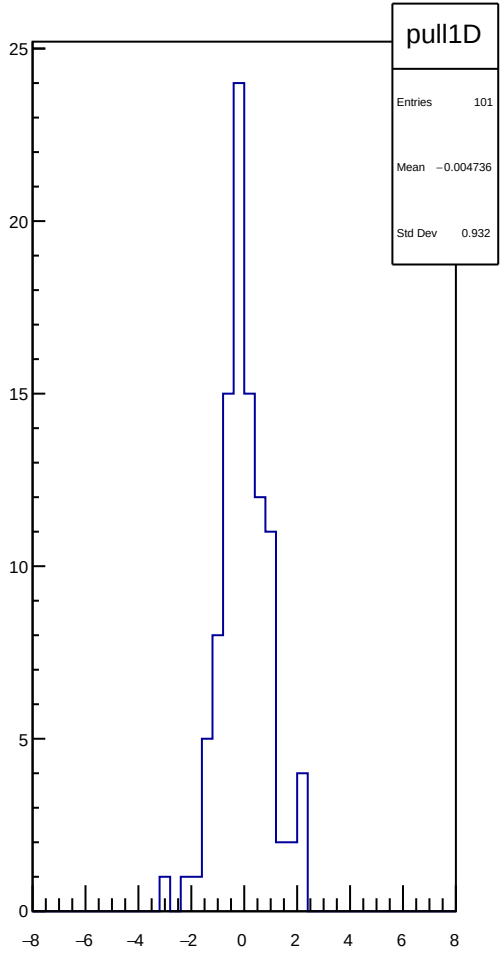
0
2
4
6
8

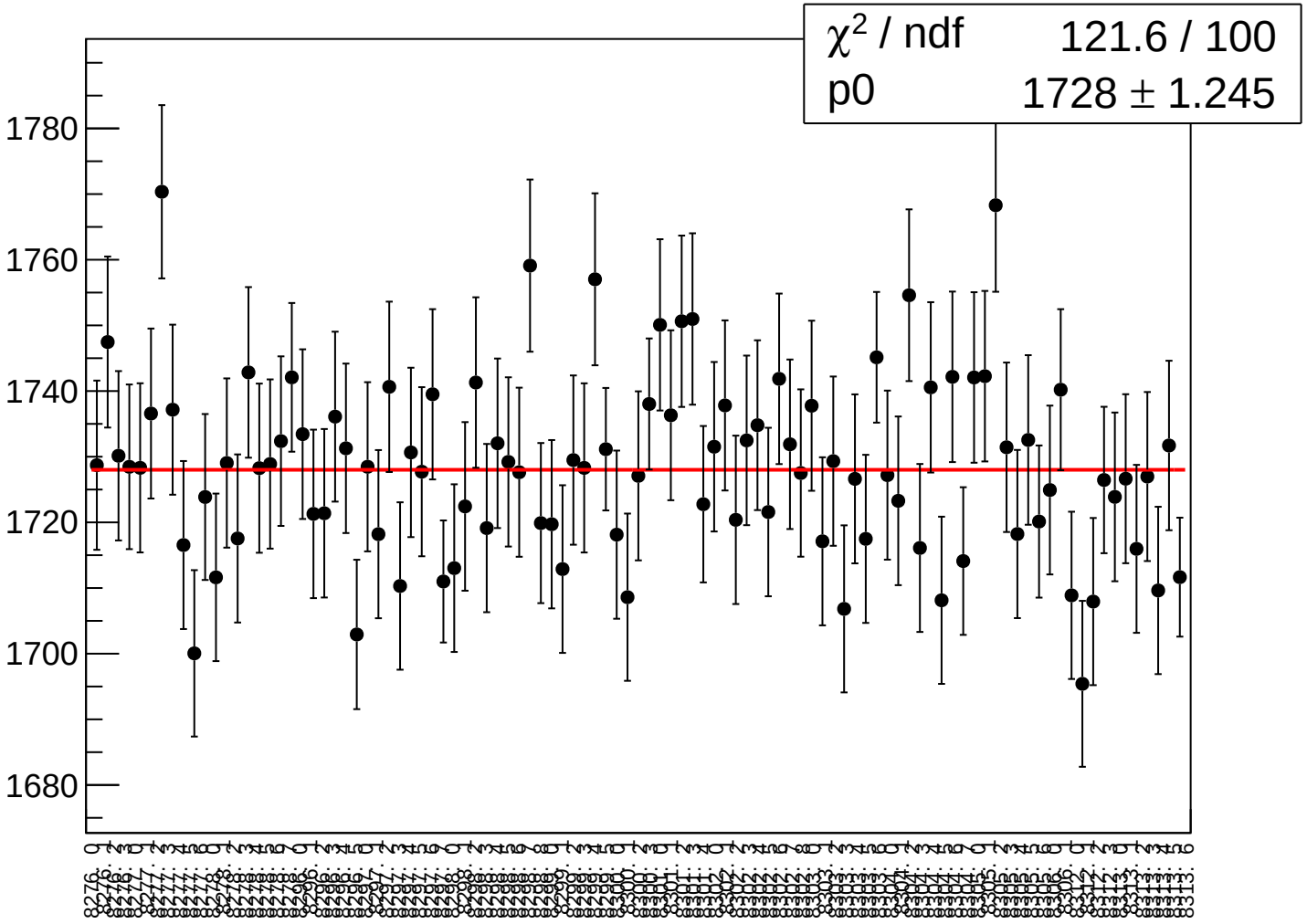

cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 121.6 / 100
p0 1728 ± 1.245
1780
1760
1740
1720
1700
1680

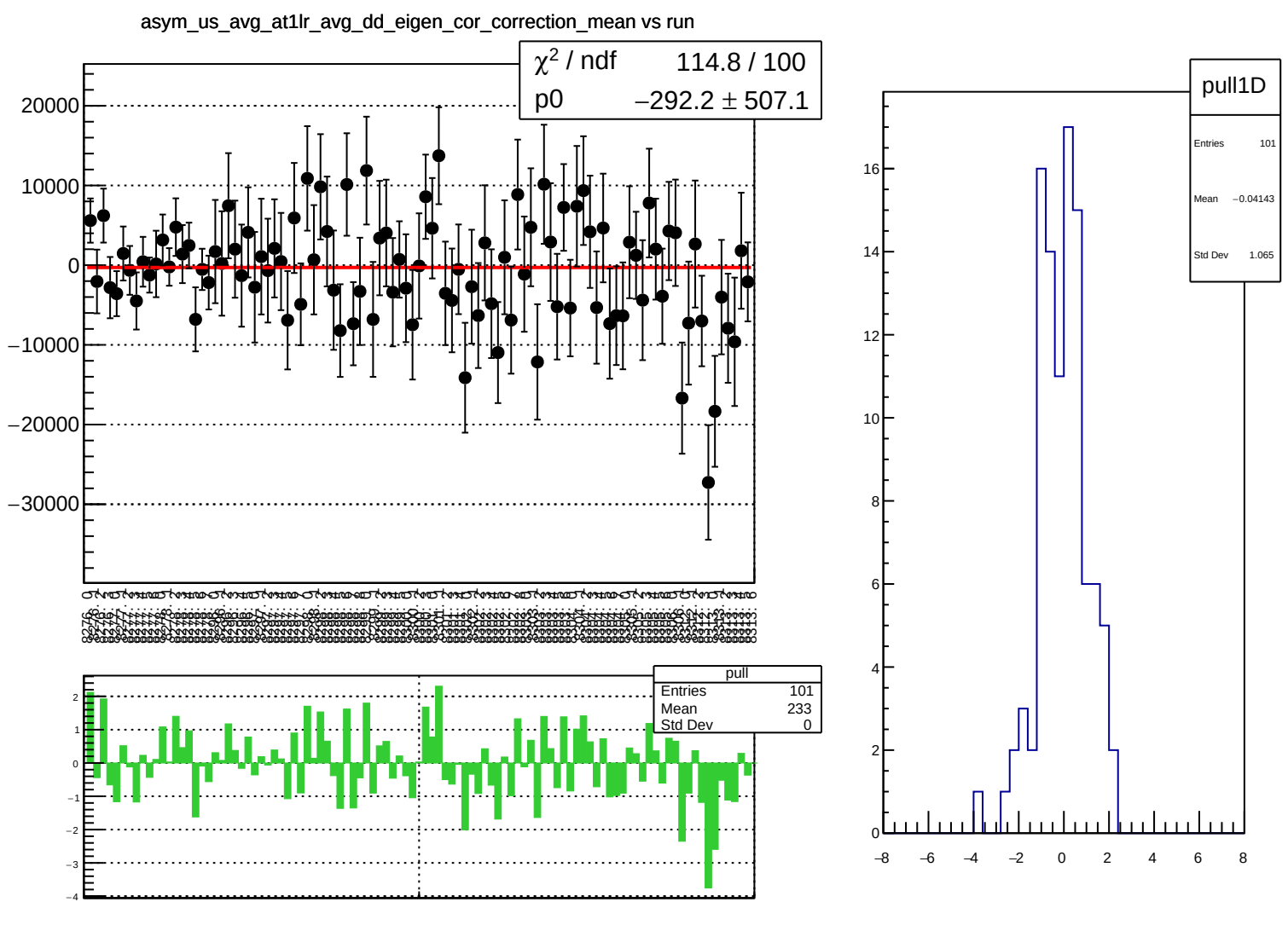

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 114.8 / 100
p0 −292.2 ± 507.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 101
Mean 233
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 101
Mean −0.04143
Std Dev 1.065
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

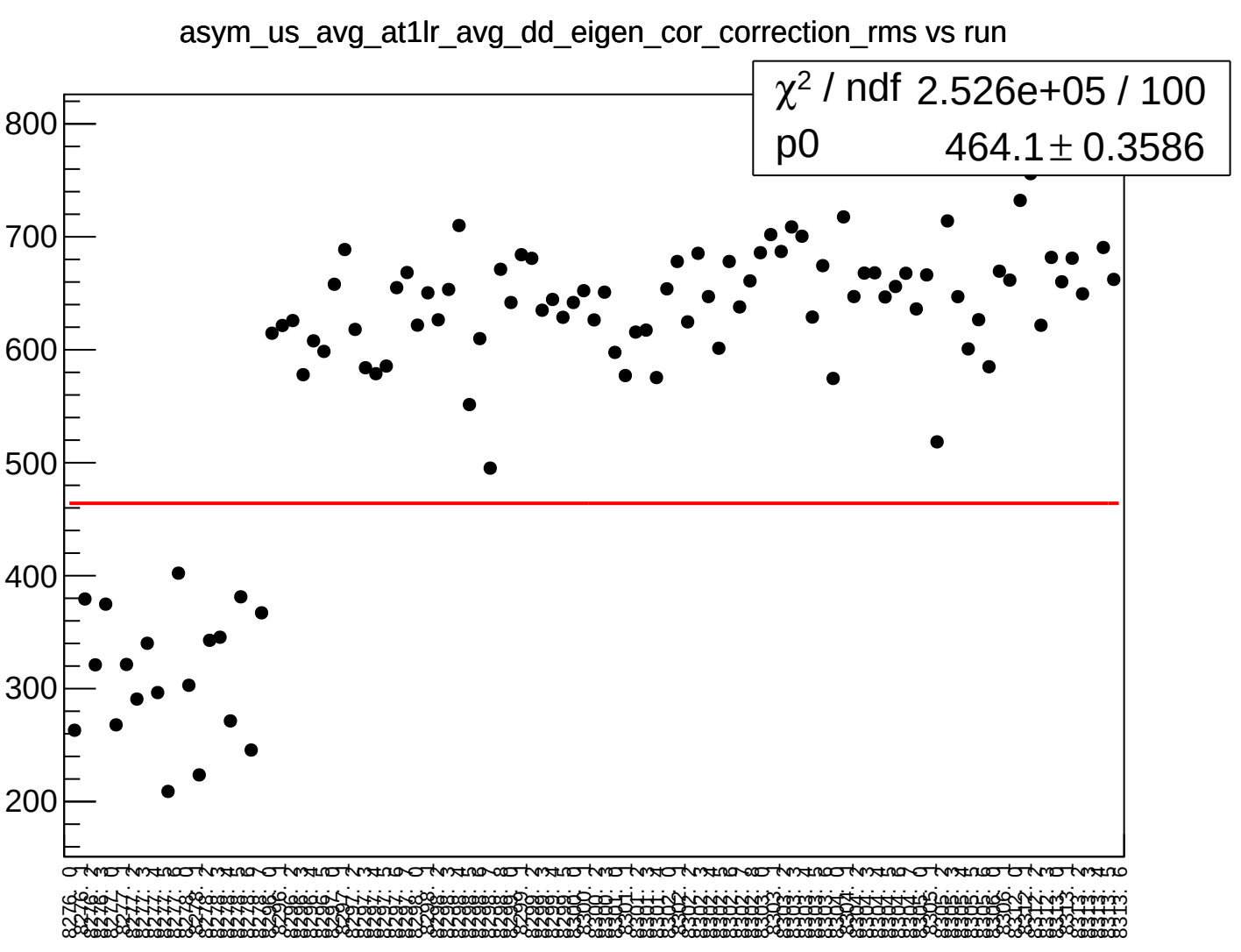

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ^2 / ndf 2.526e+05 / 100
p0 464.1 ± 0.3586
800
700
600
500
400
300
200

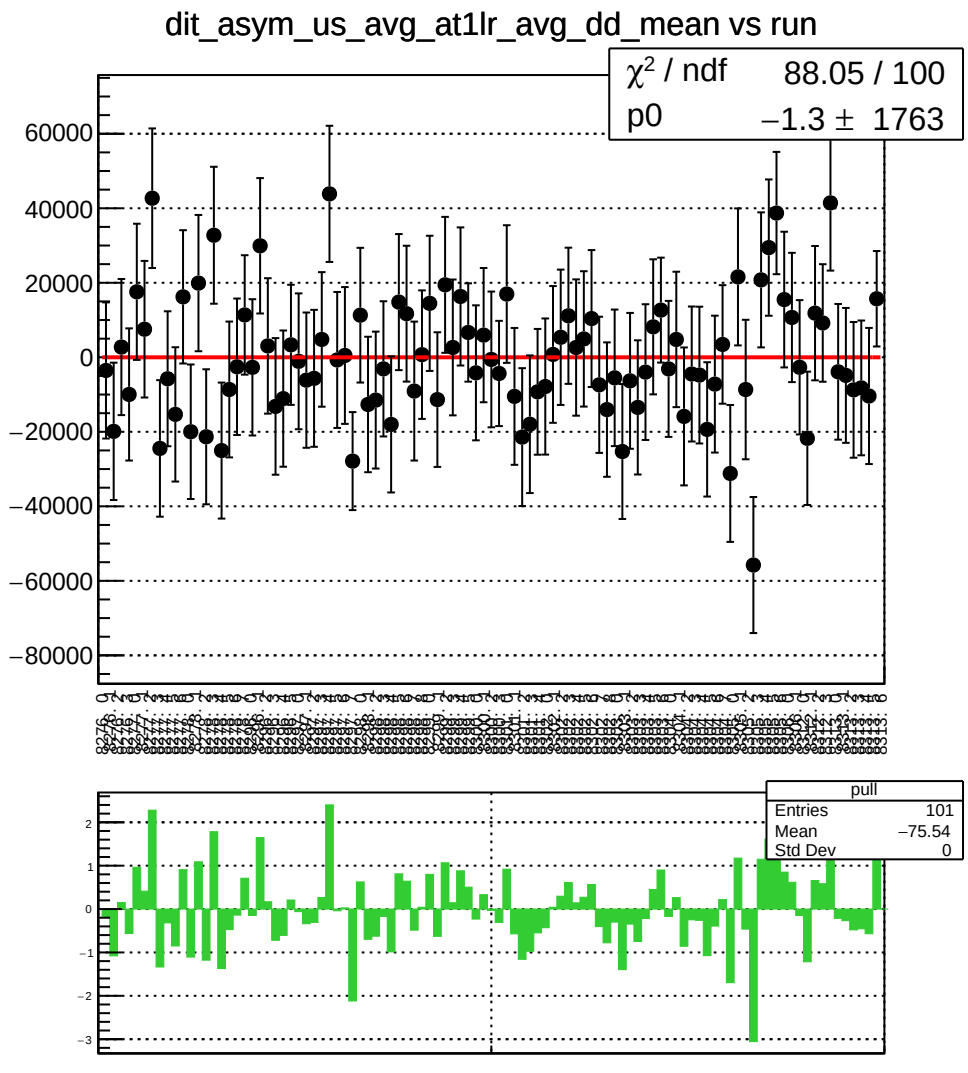

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 87.74 / 100
p0 −79.18 ± 1760
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 101
Mean −66.53
Std Dev 0
2
1
0
−1
−2
−3

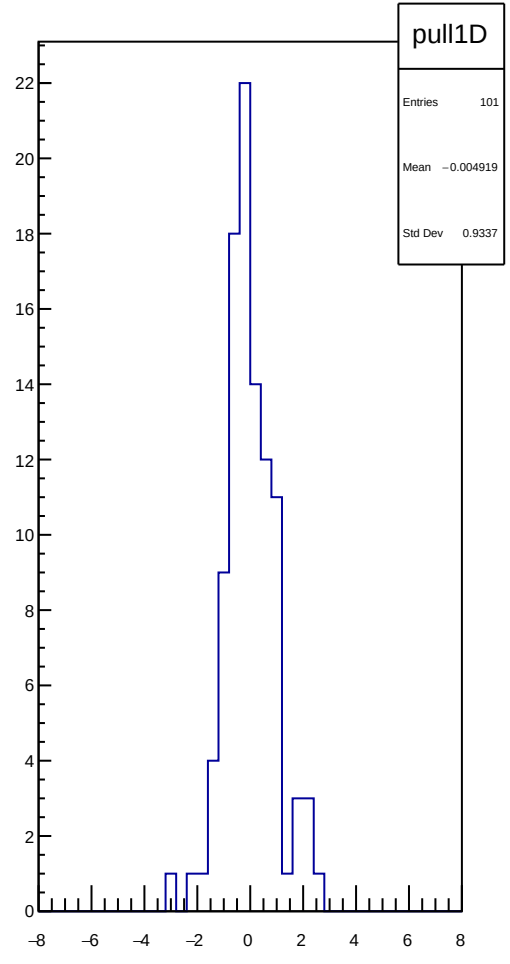

pull1D
Entries 101
Mean −0.004736
Std Dev 0.932
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

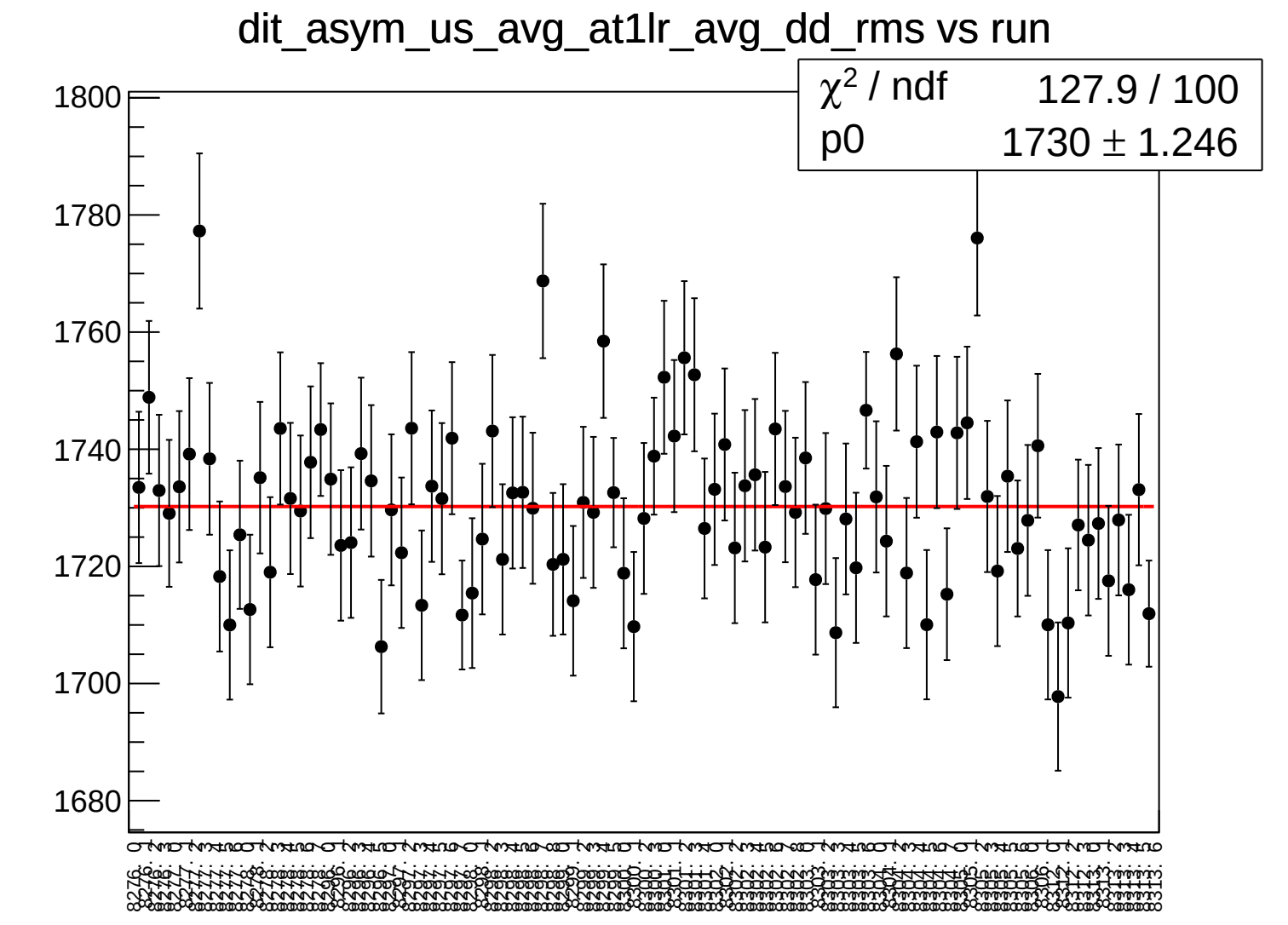

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 121.6 / 100
p0 1728 ± 1.245
1780
1760
1740
1720
1700
1680

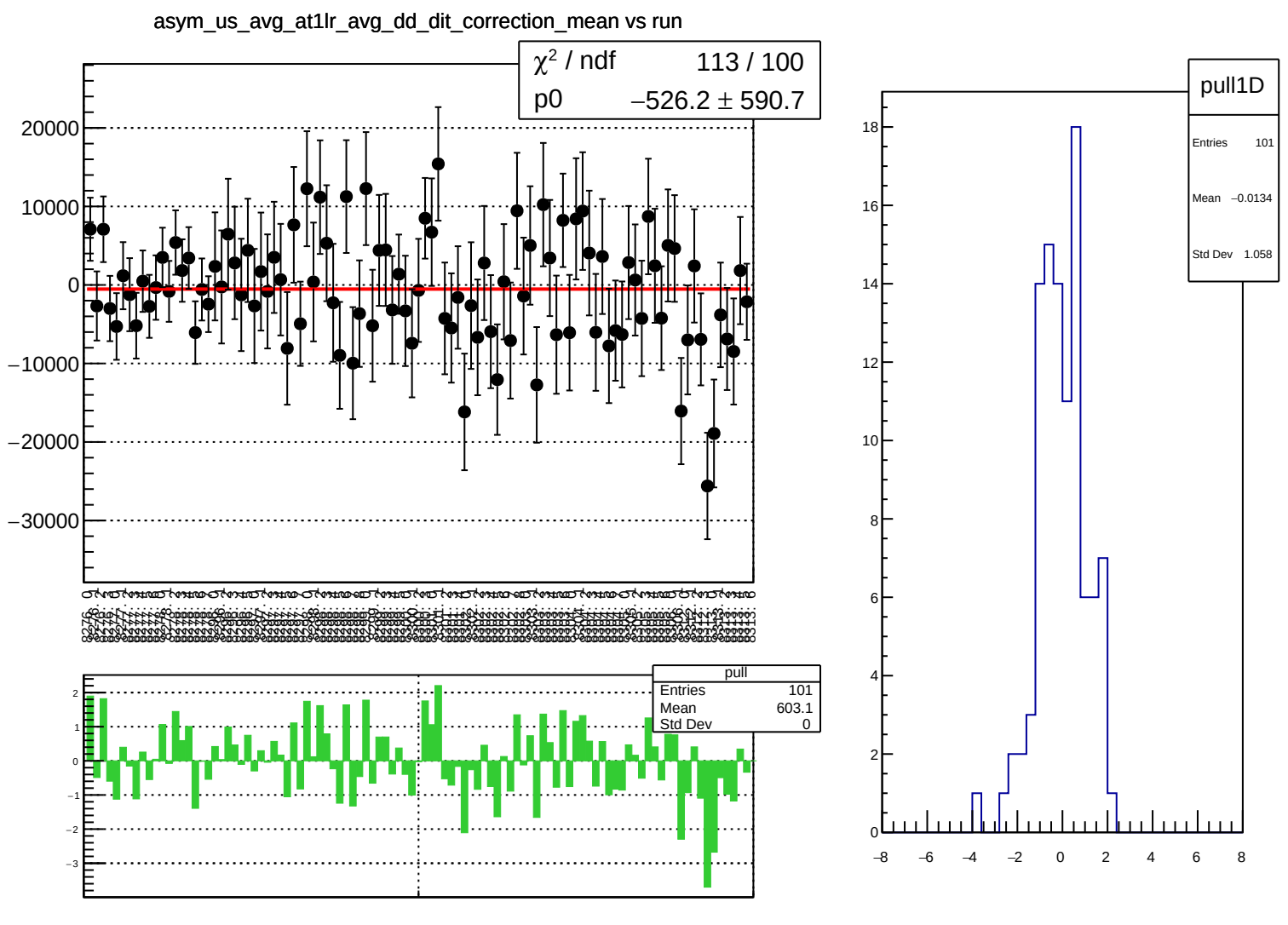

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 114.8 / 100
p0 −292.2 ± 507.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 101
Mean 233
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 101
Mean −0.04143
Std Dev 1.065
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

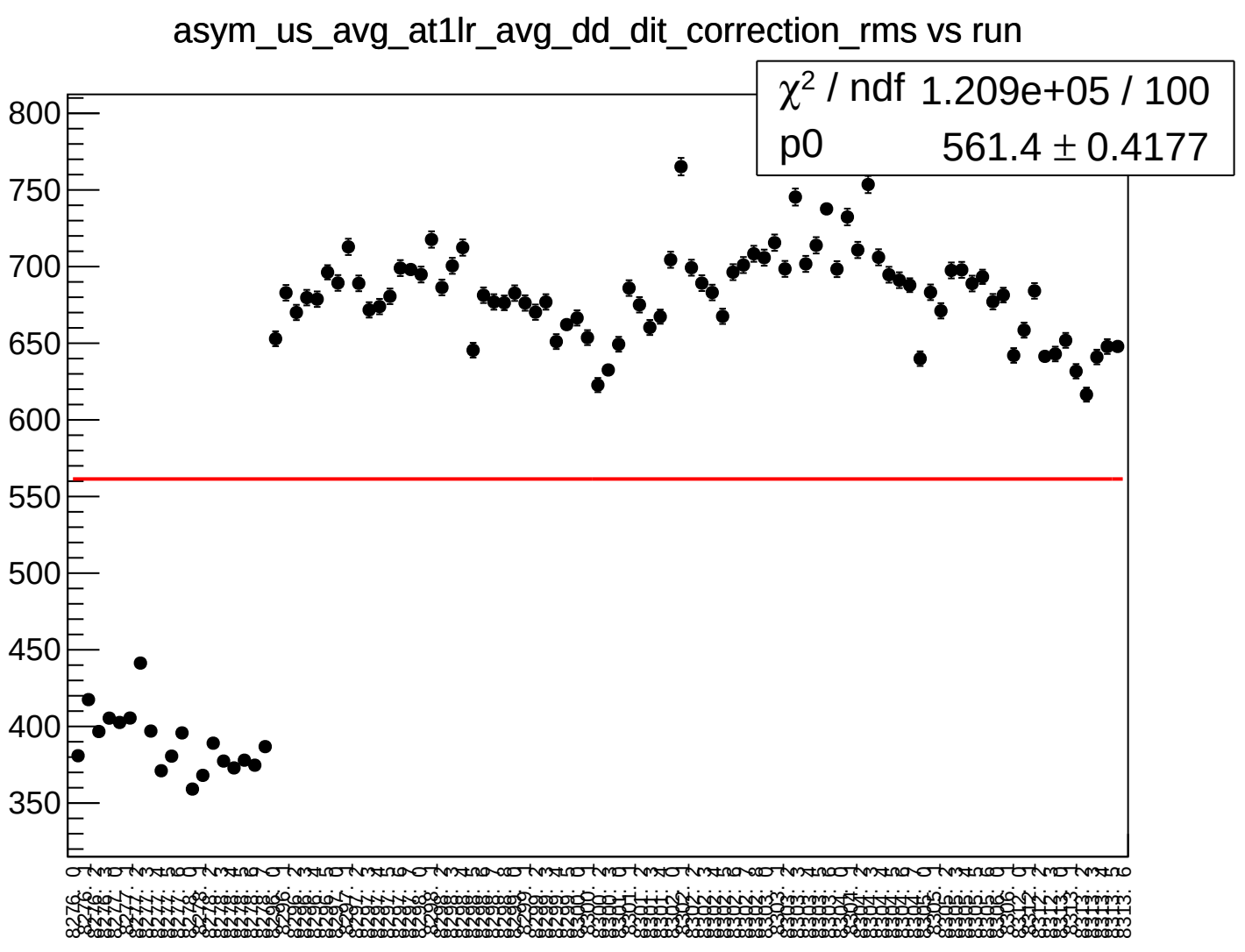

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 2.526e+05 / 100
p0 464.1 ± 0.3586
800
700
600
500
400
300
200

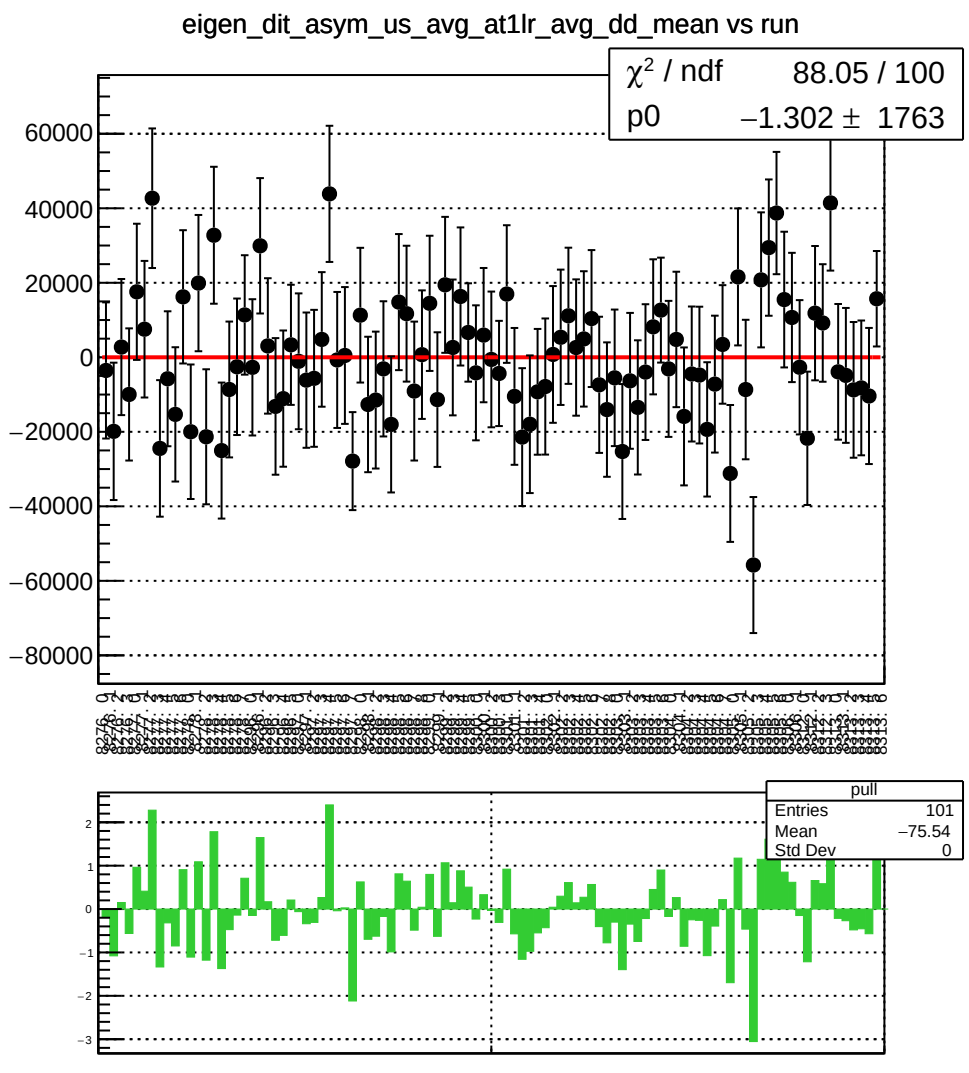

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 88.05 / 100
p0 −1.3 ± 1763
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 101
Mean −75.54
Std Dev 0
2
1
0
−1
−2
−3

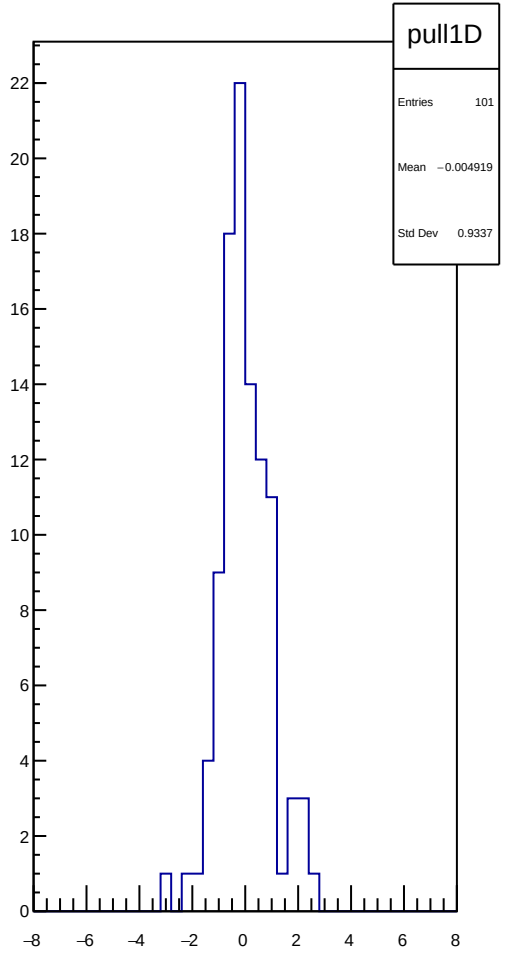

pull1D
Entries 101
Mean −0.004919
Std Dev 0.9337
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

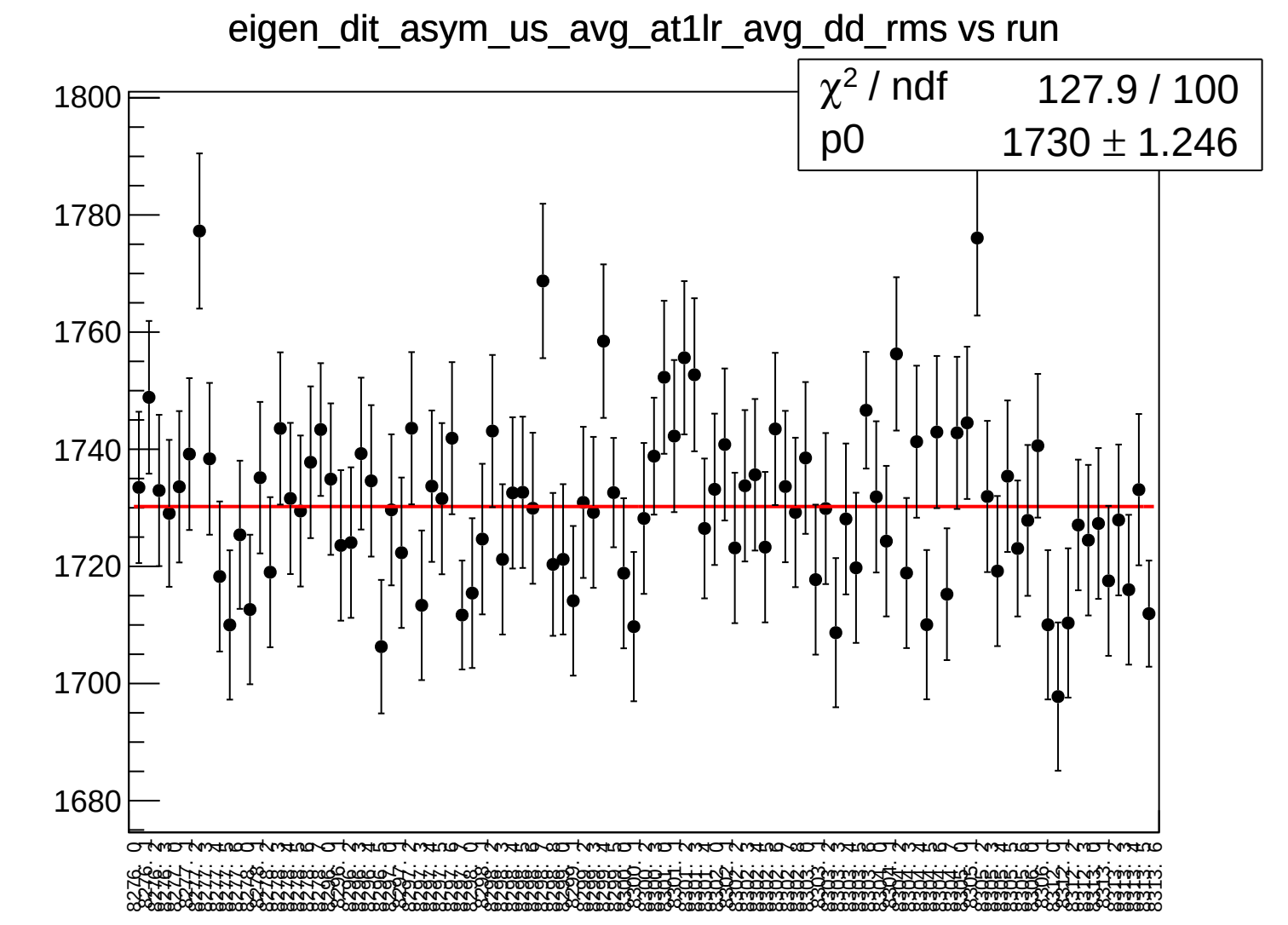

dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 127.9 / 100
p0 1730 ± 1.246
1800
1780
1760
1740
1720
1700
1680

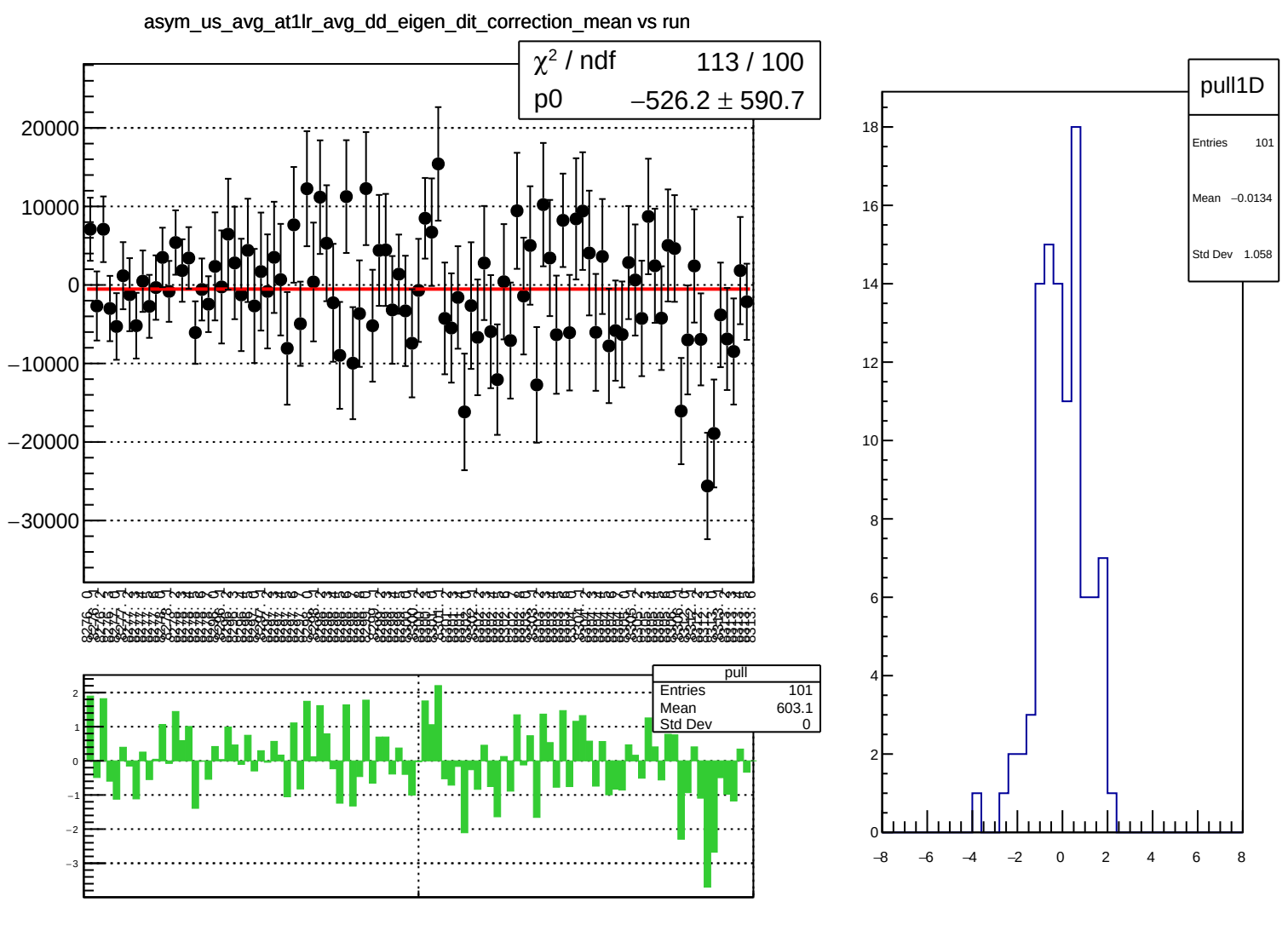

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
χ² / ndf 113 / 100
p0 −526.2 ± 590.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 101
Mean 603.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean −0.0134
Std Dev 1.058
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

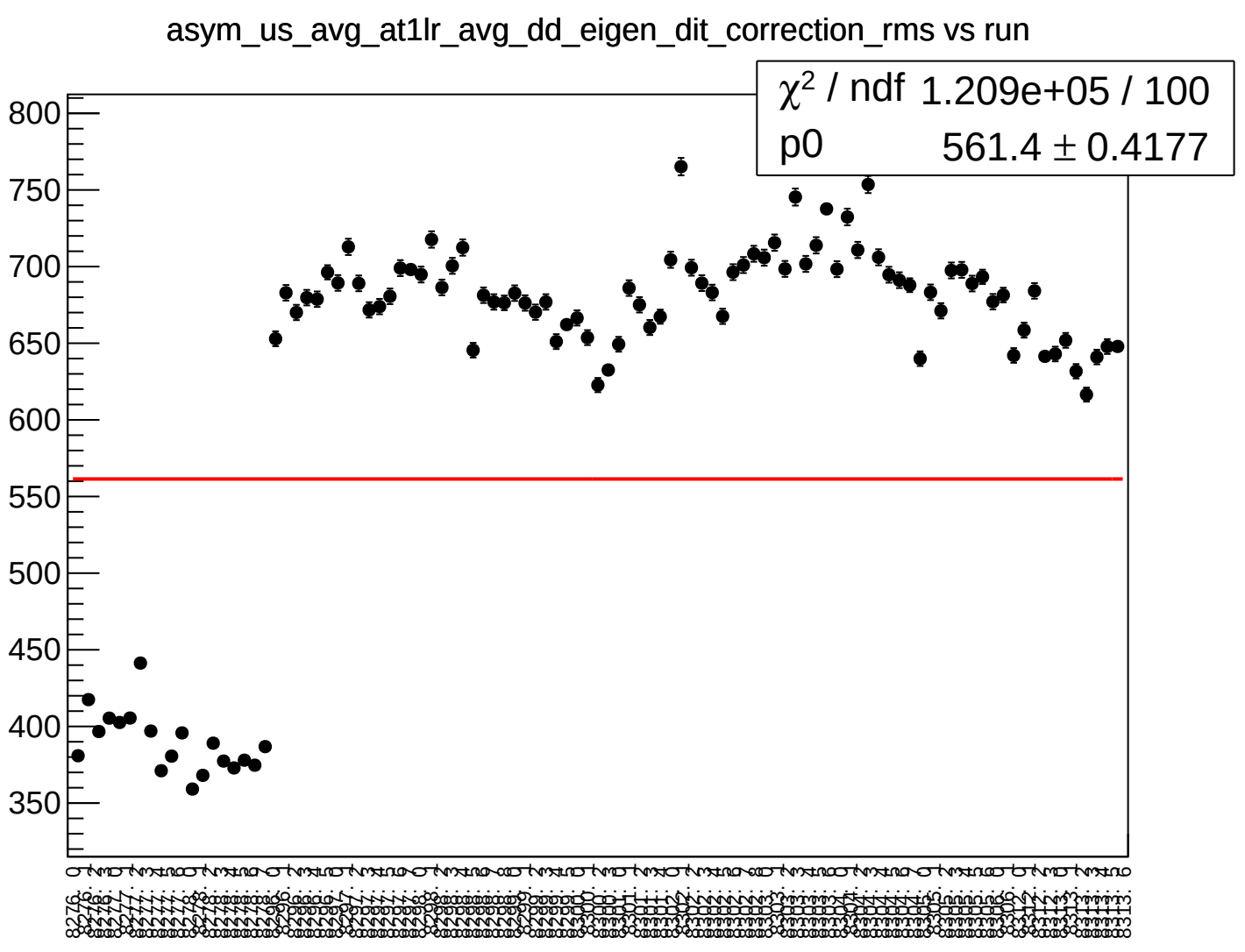

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ² / ndf 1.209e+05 / 100
p0 561.4 ± 0.4177
800
750
700
650
600
550
500
450
400
350

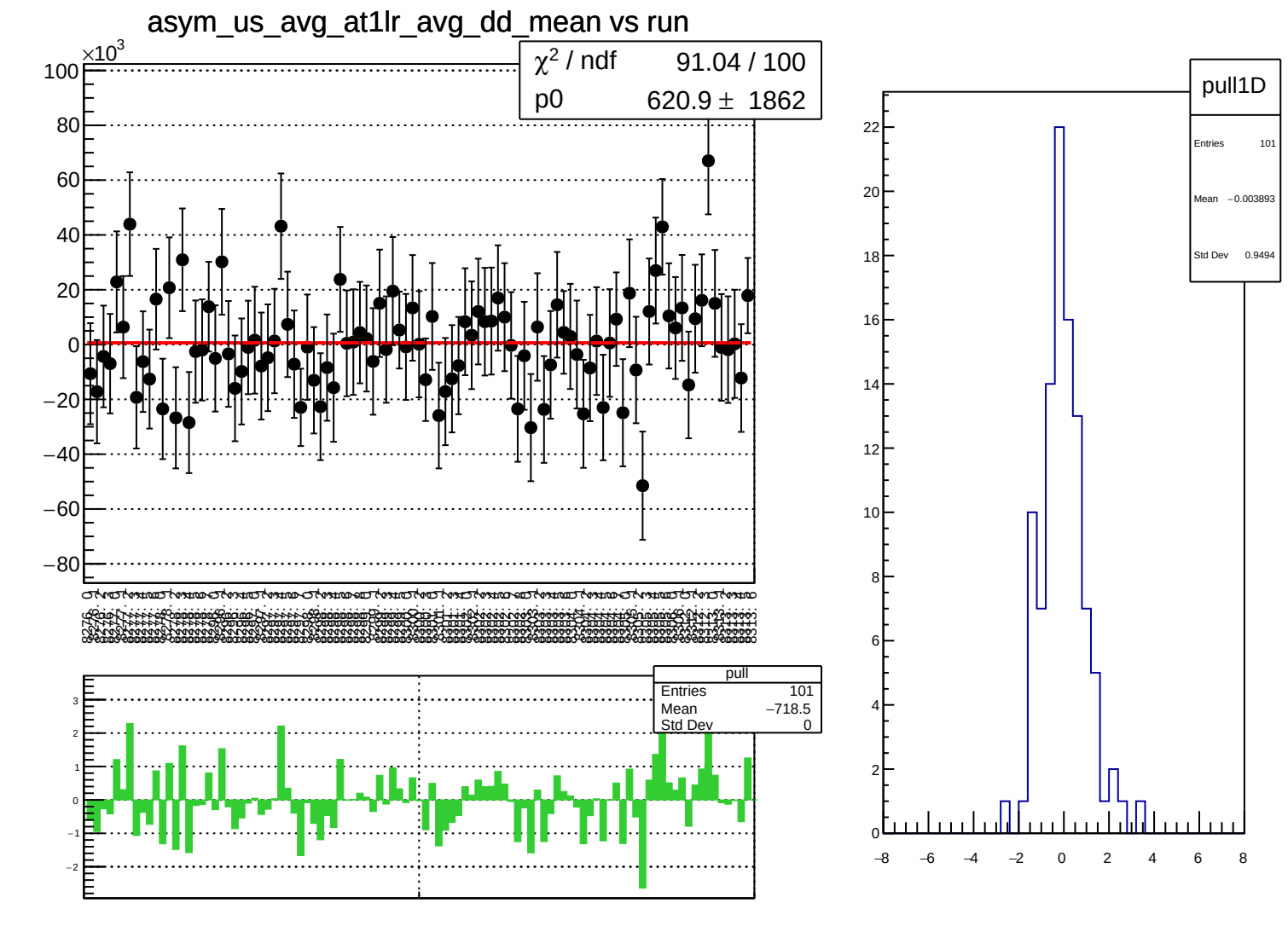

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 88.05 / 100
p0 −1.302 ± 1763
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 101
Mean −75.54
Std Dev 0
2
1
0
−1
−2
−3

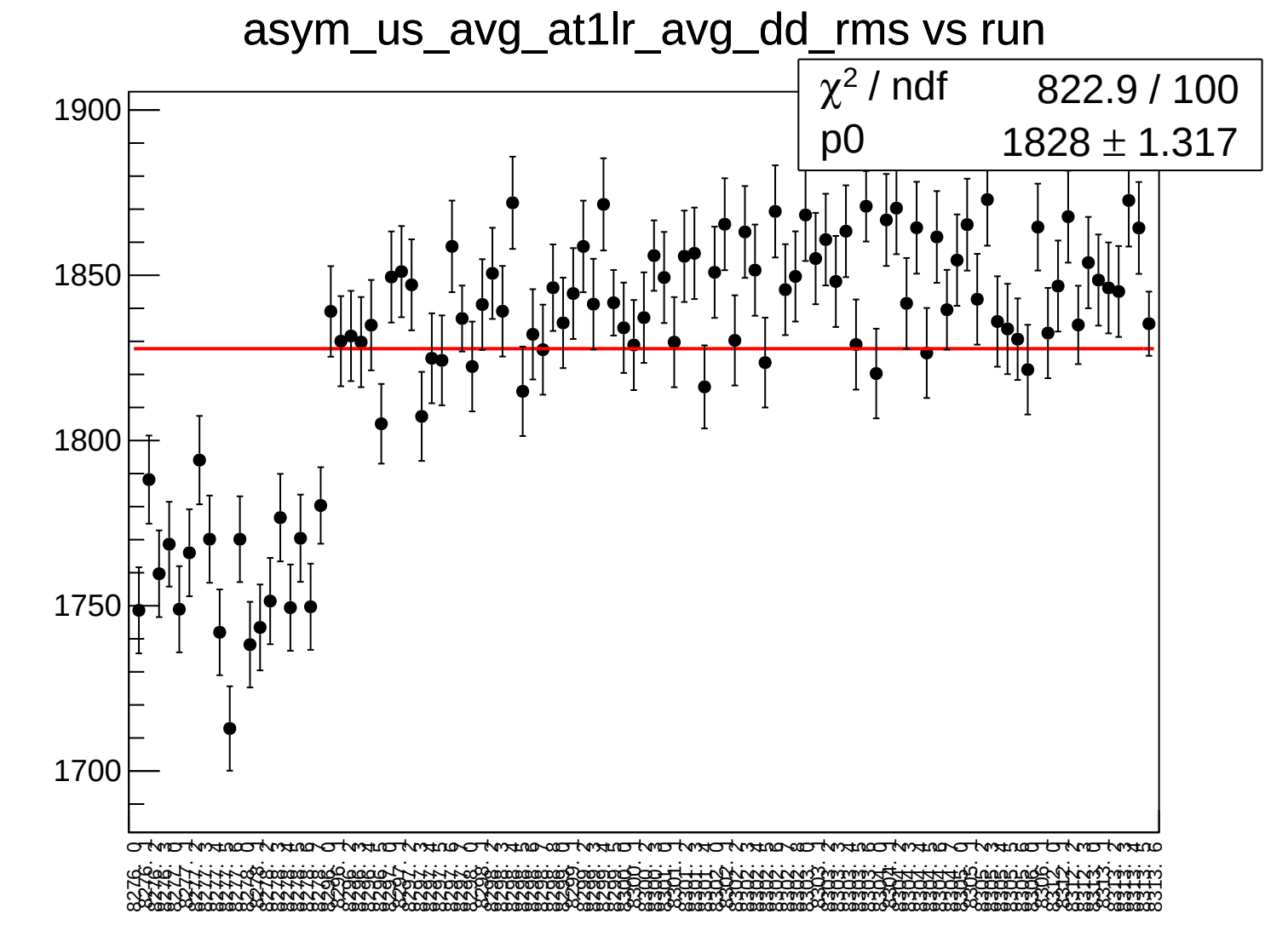

pull1D
Entries 101
Mean −0.004919
Std Dev 0.9337
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

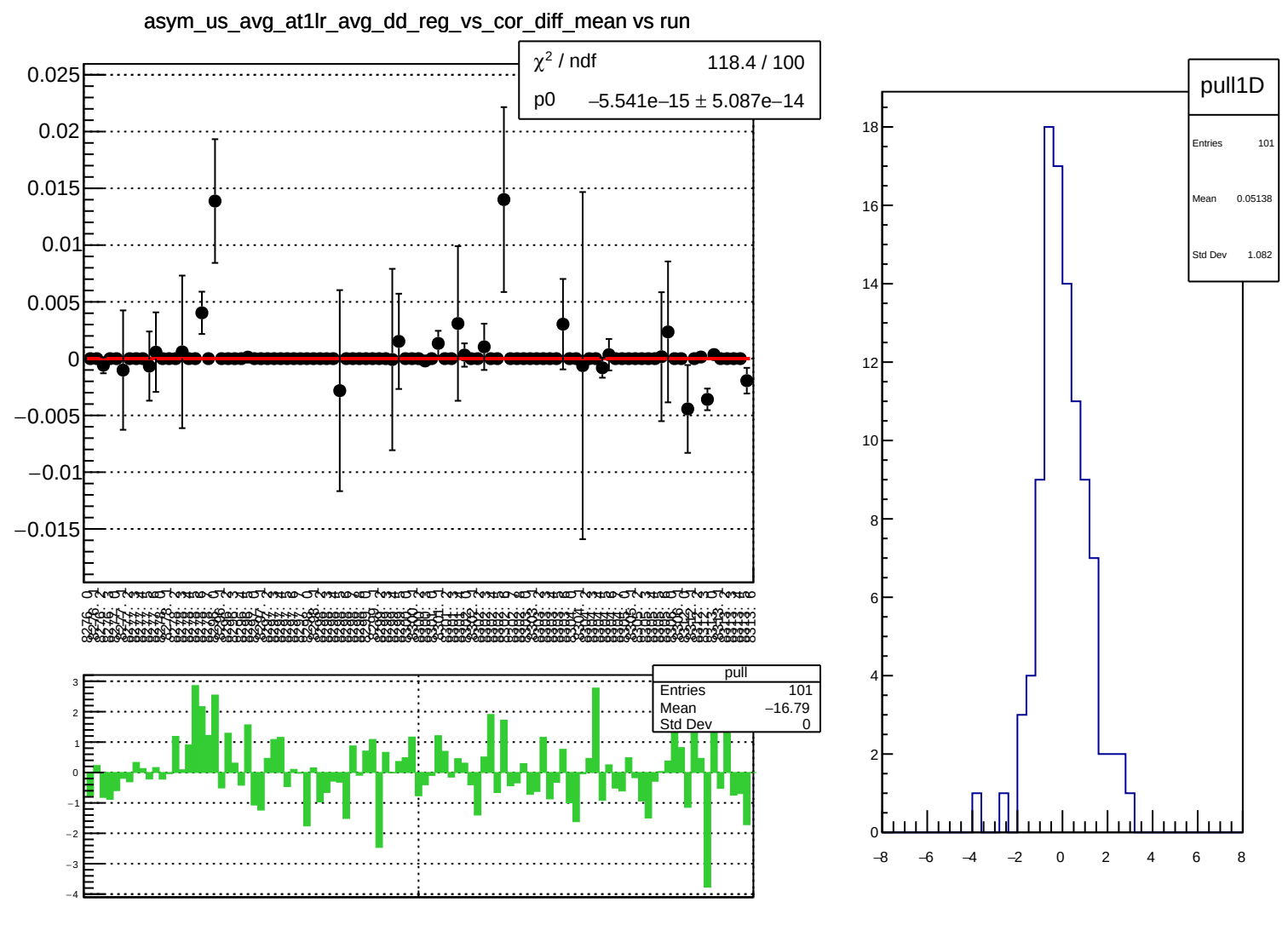

eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 127.9 / 100
p0 1730 ± 1.246
1800
1780
1760
1740
1720
1700
1680

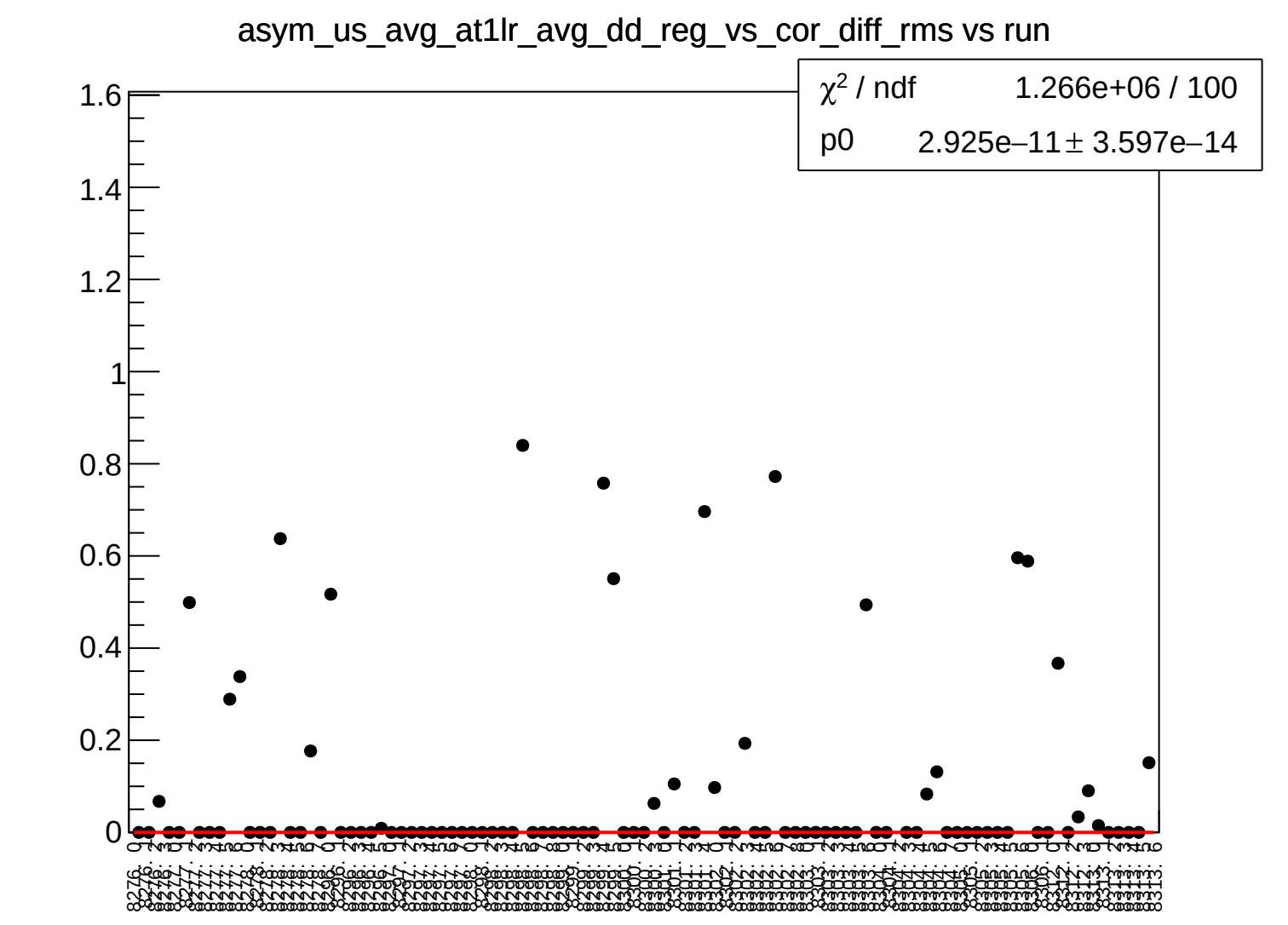

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 113 / 100
p0 −526.2 ± 590.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 101
Mean 603.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean −0.0134
Std Dev 1.058
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

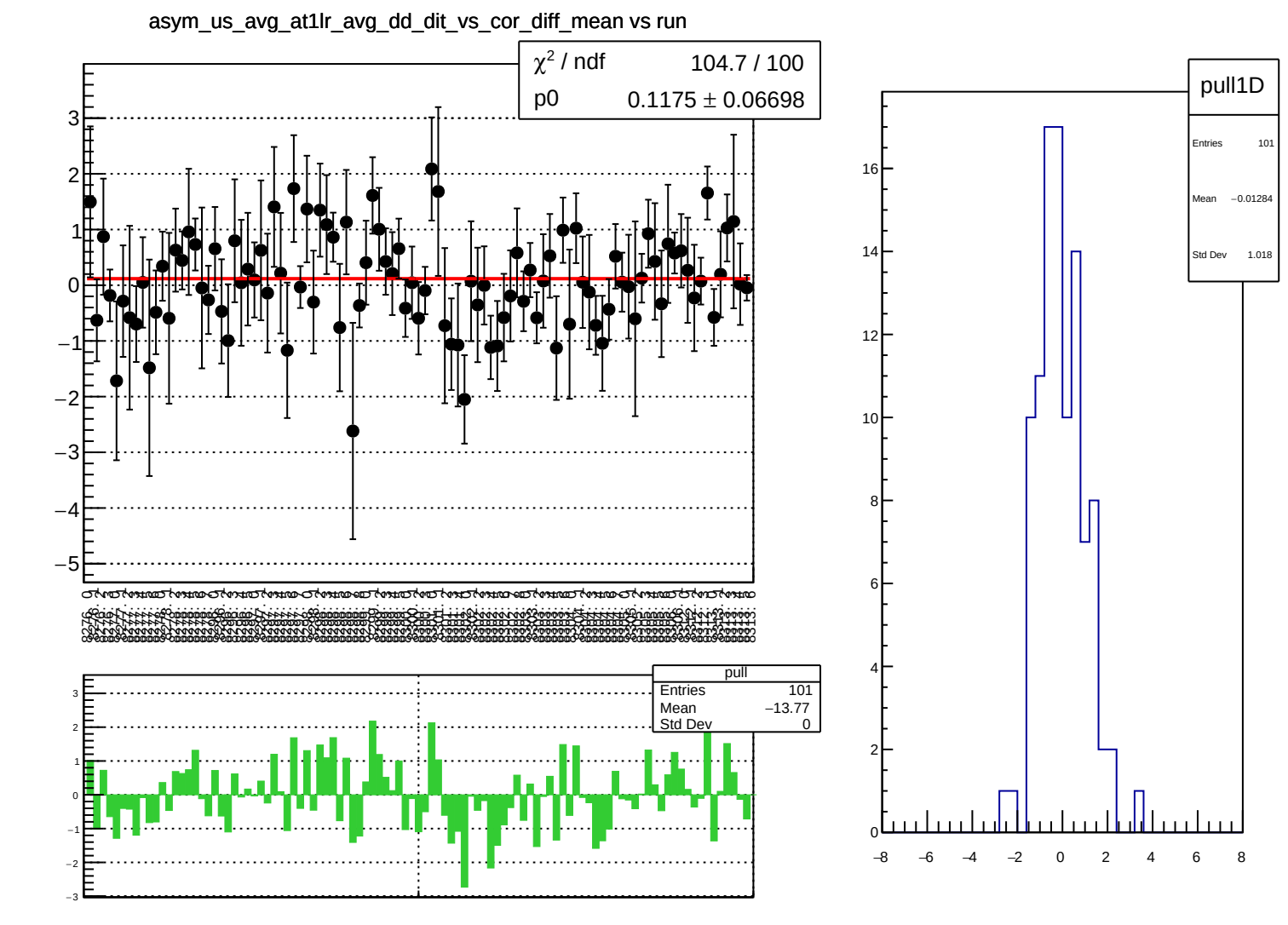

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 1.209e+05 / 100
p0 561.4 ± 0.4177
800
750
700
650
600
550
500
450
400
350

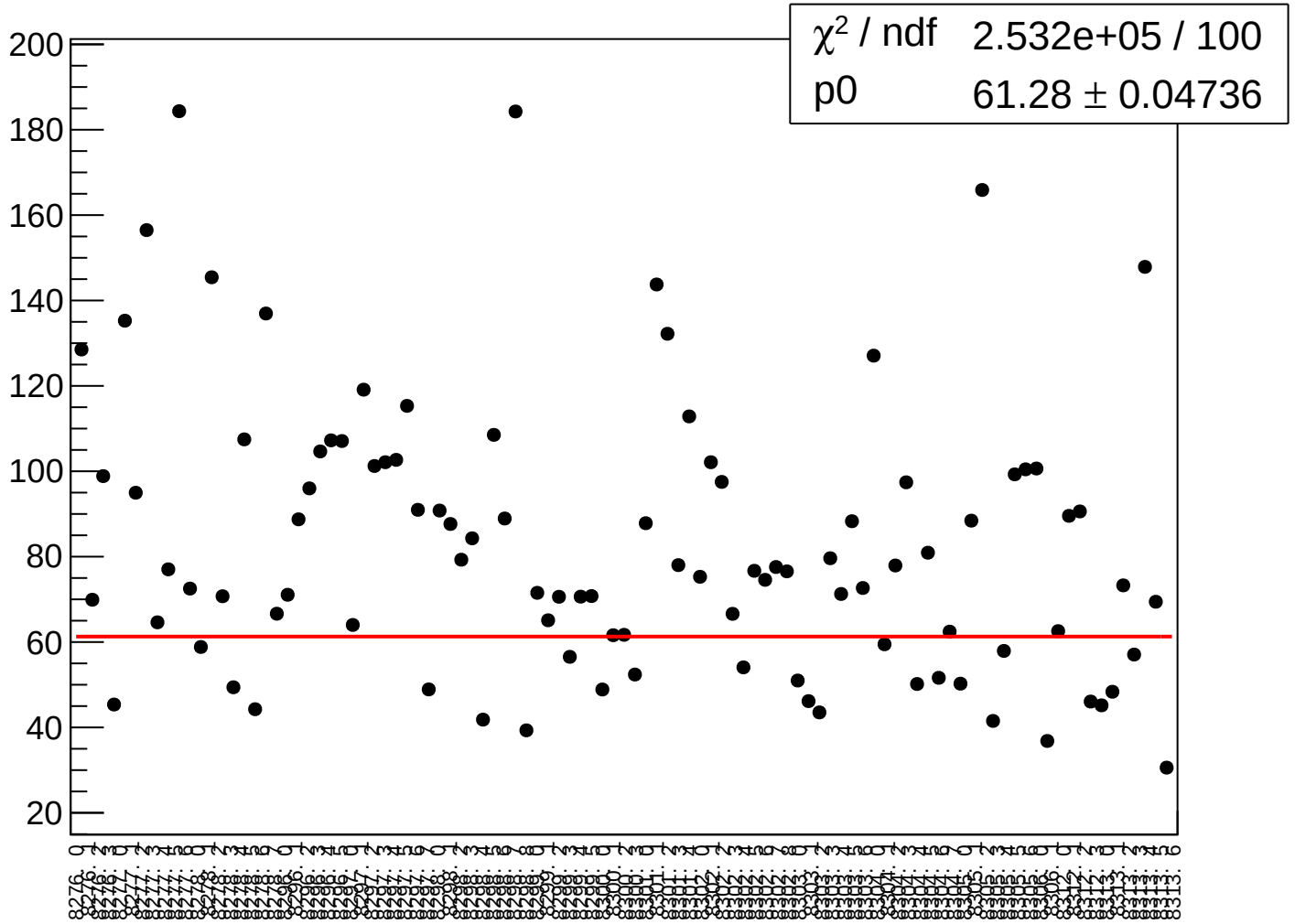

asym_us_avg_at1lr_avg_dd_mean vs run
×10^3
χ^2 / ndf 91.04 / 100
p0 620.9 ± 1862
pull
Entries 101
Mean −718.5
Std Dev 0
pull1D
Entries 101
Mean −0.003893
Std Dev 0.9494

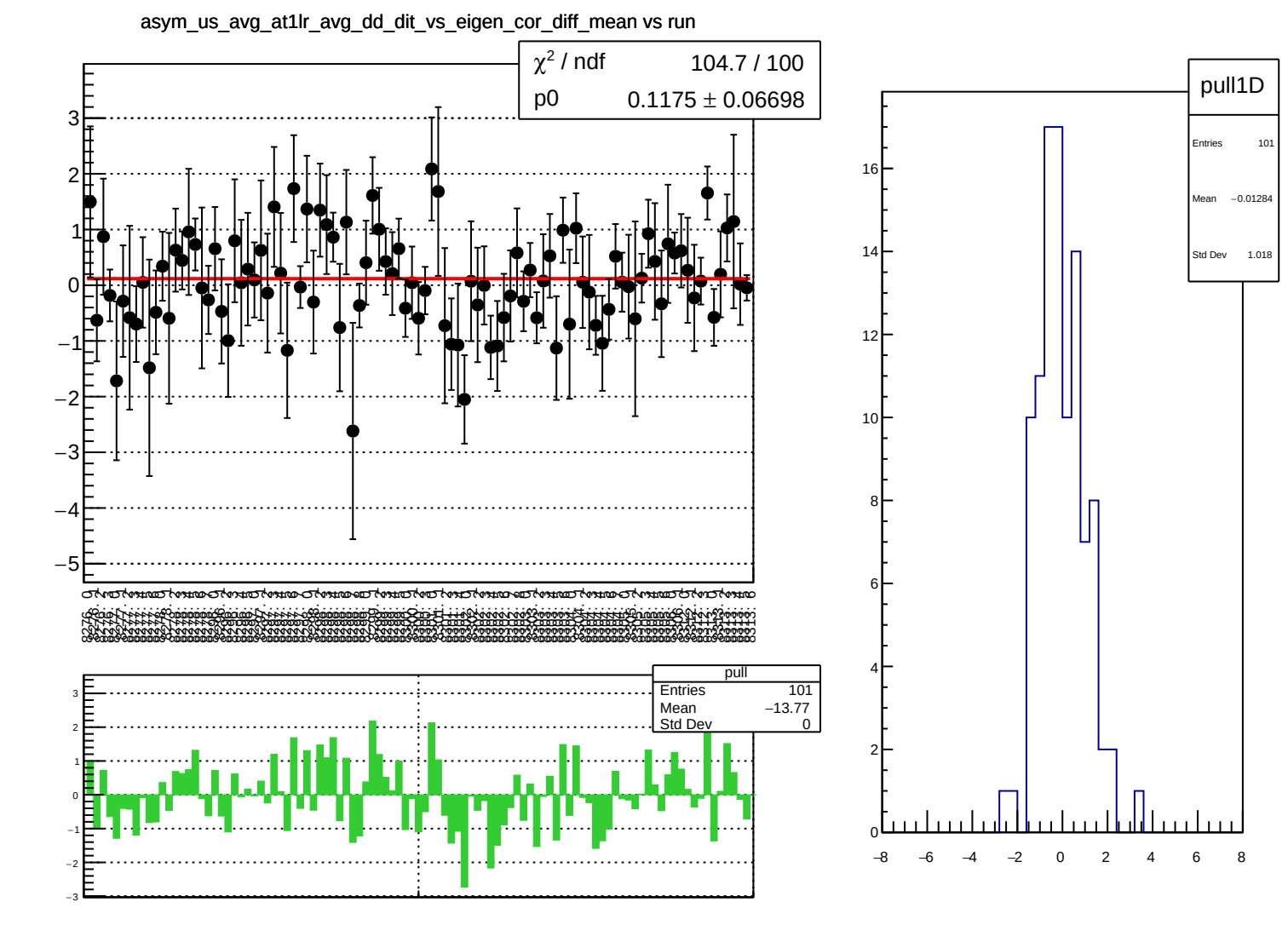

asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 822.9 / 100
p0 1828 ± 1.317
1900
1850
1800
1750
1700

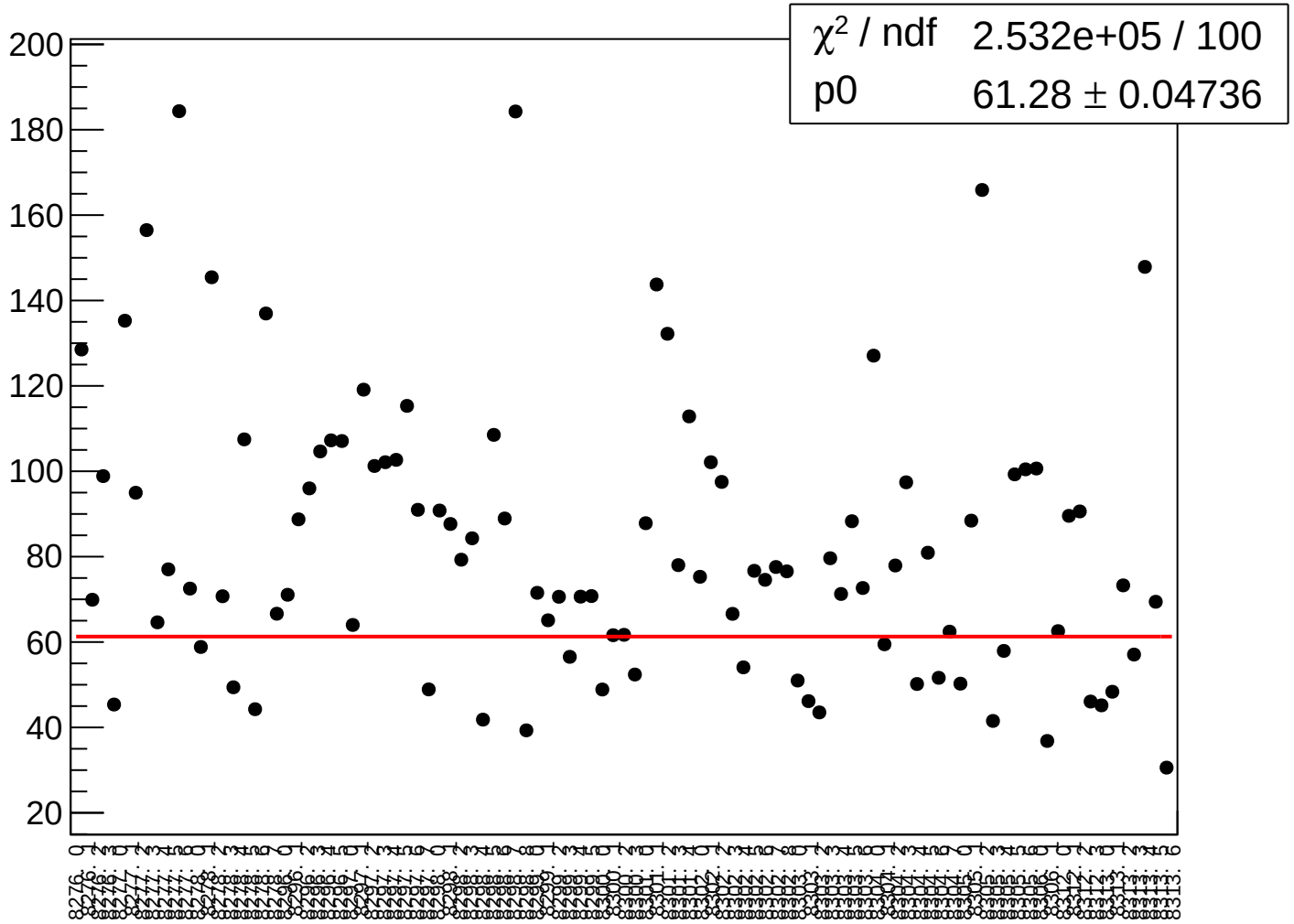

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 118.4 / 100
p0 −5.541e−15 ± 5.087e−14
pull
Entries 101
Mean −16.79
Std Dev 0
pull1D
Entries 101
Mean 0.05138
Std Dev 1.082

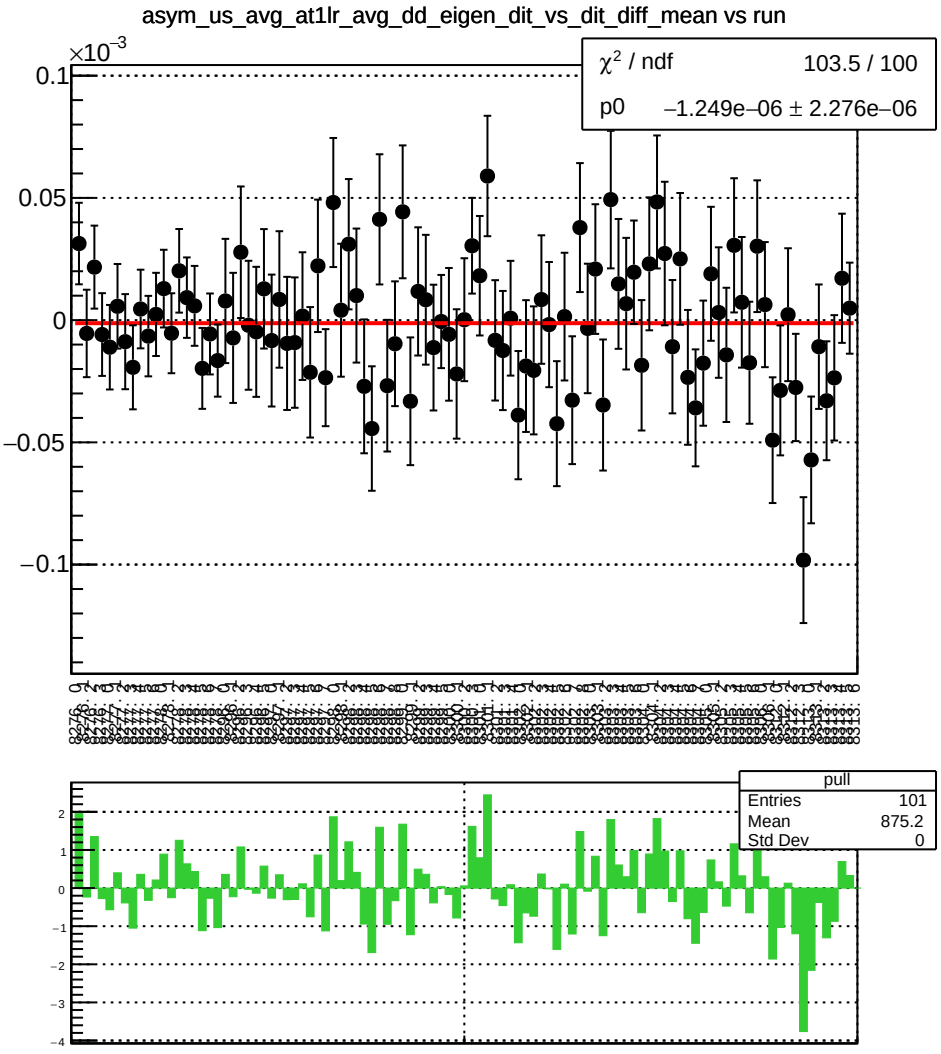

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.266e+06 / 100
p0 2.925e−11 ± 3.597e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

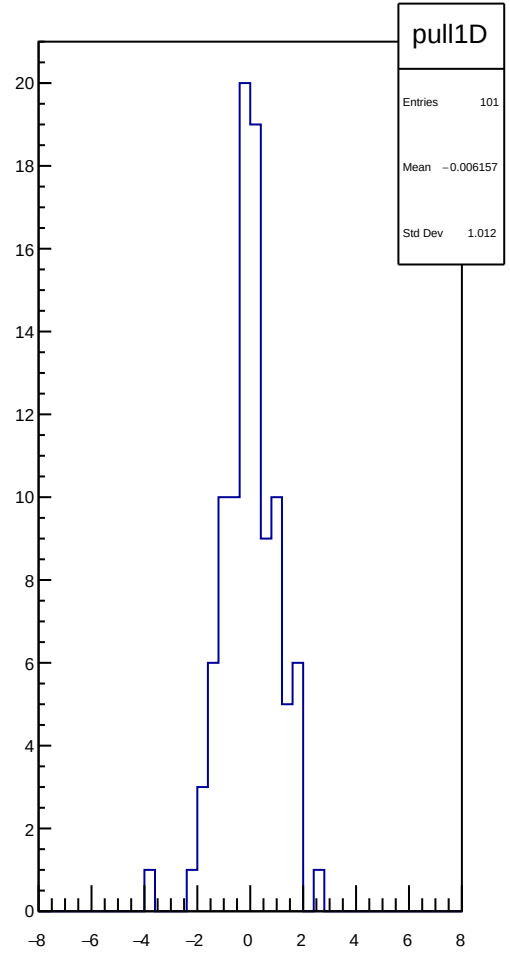

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 104.7 / 100
p0 0.1175 ± 0.06698
pull
Entries 101
Mean −13.77
Std Dev 0
pull1D
Entries 101
Mean −0.01284
Std Dev 1.018

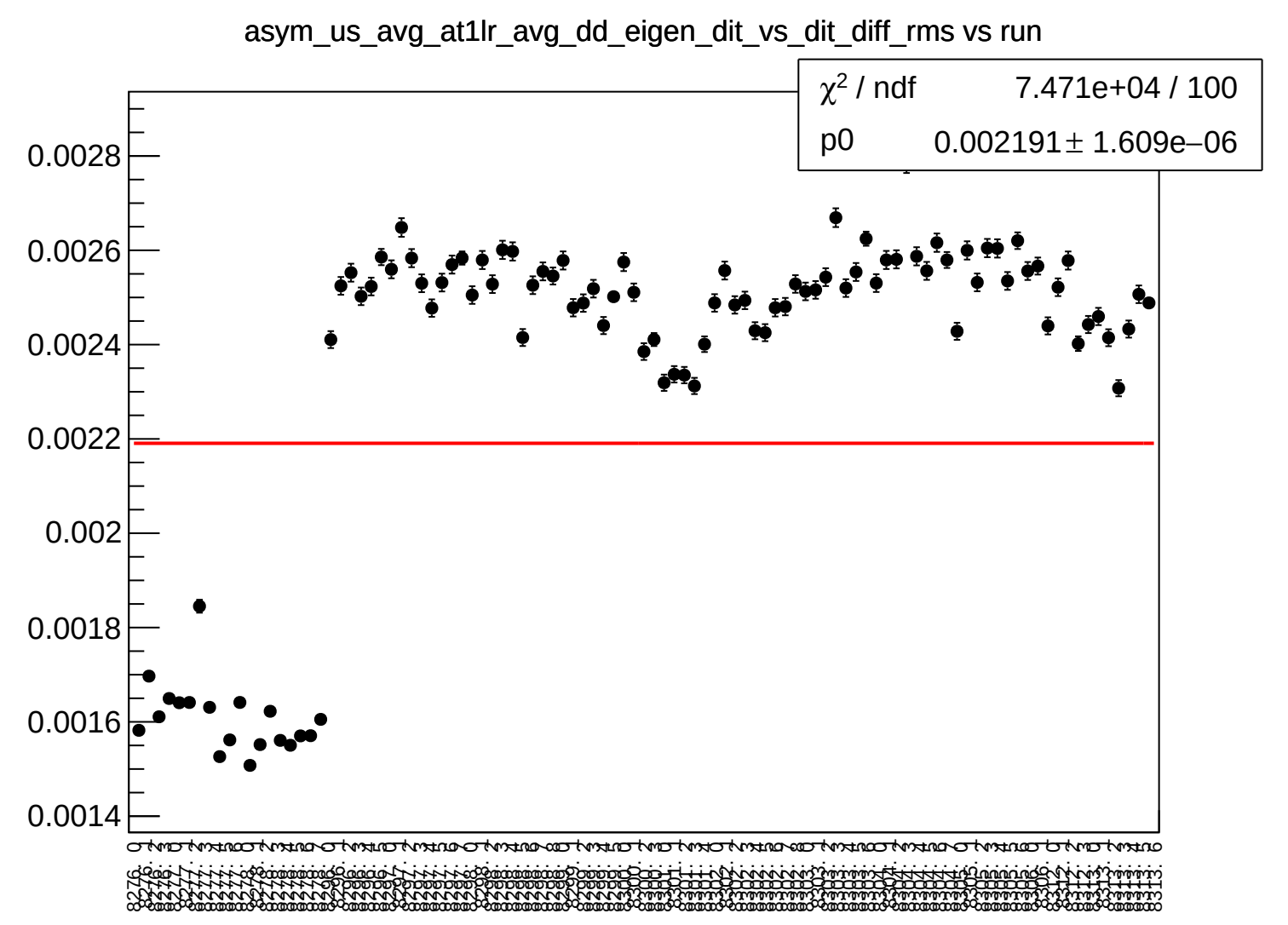

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.532e+05 / 100
p0 61.28 ± 0.04736
200
180
160
140
120
100
80
60
40
20

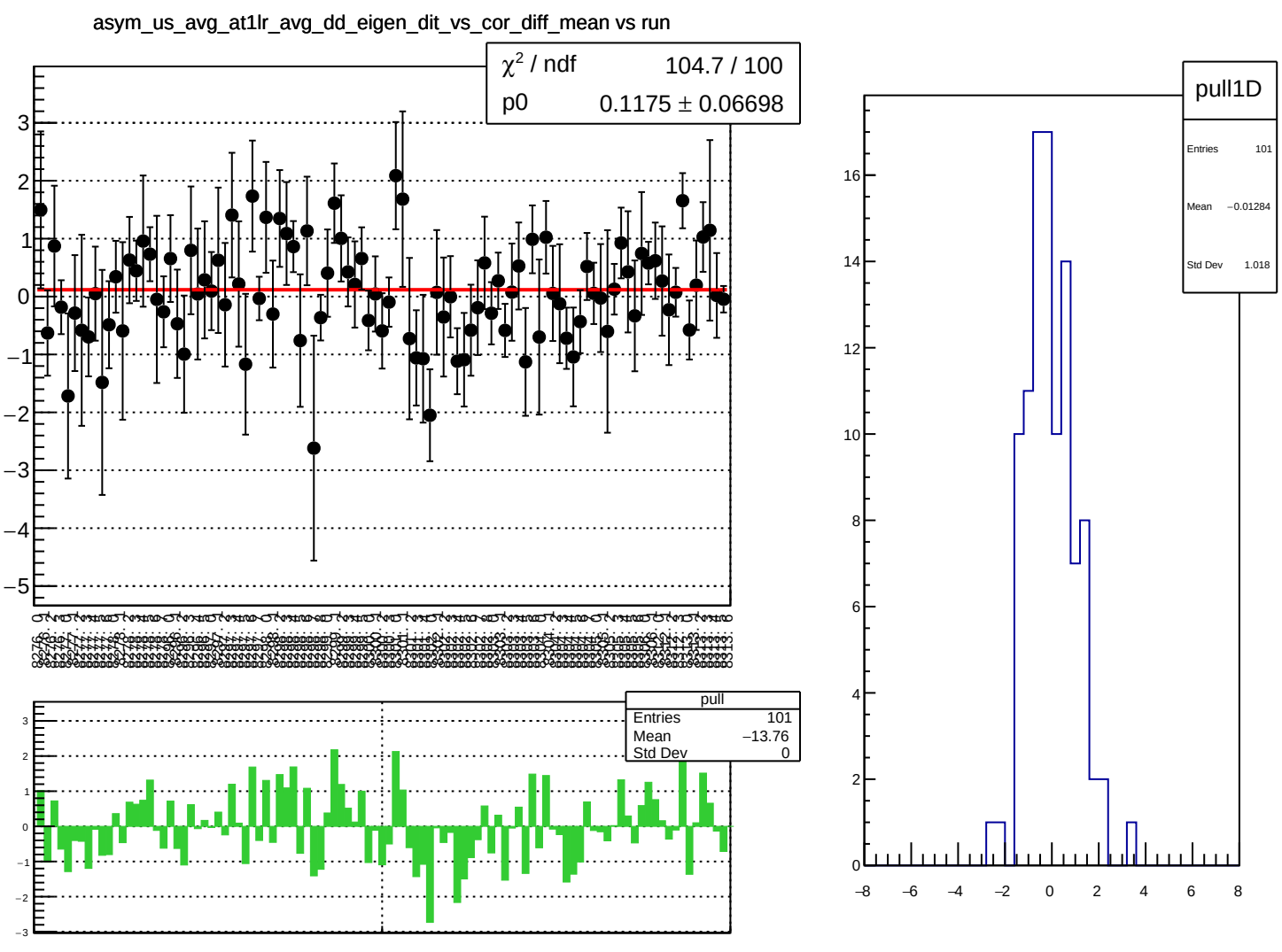

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.7 / 100
p0 0.1175 ± 0.06698
pull
Entries 101
Mean −13.77
Std Dev 0
pull1D
Entries 101
Mean −0.01284
Std Dev 1.018

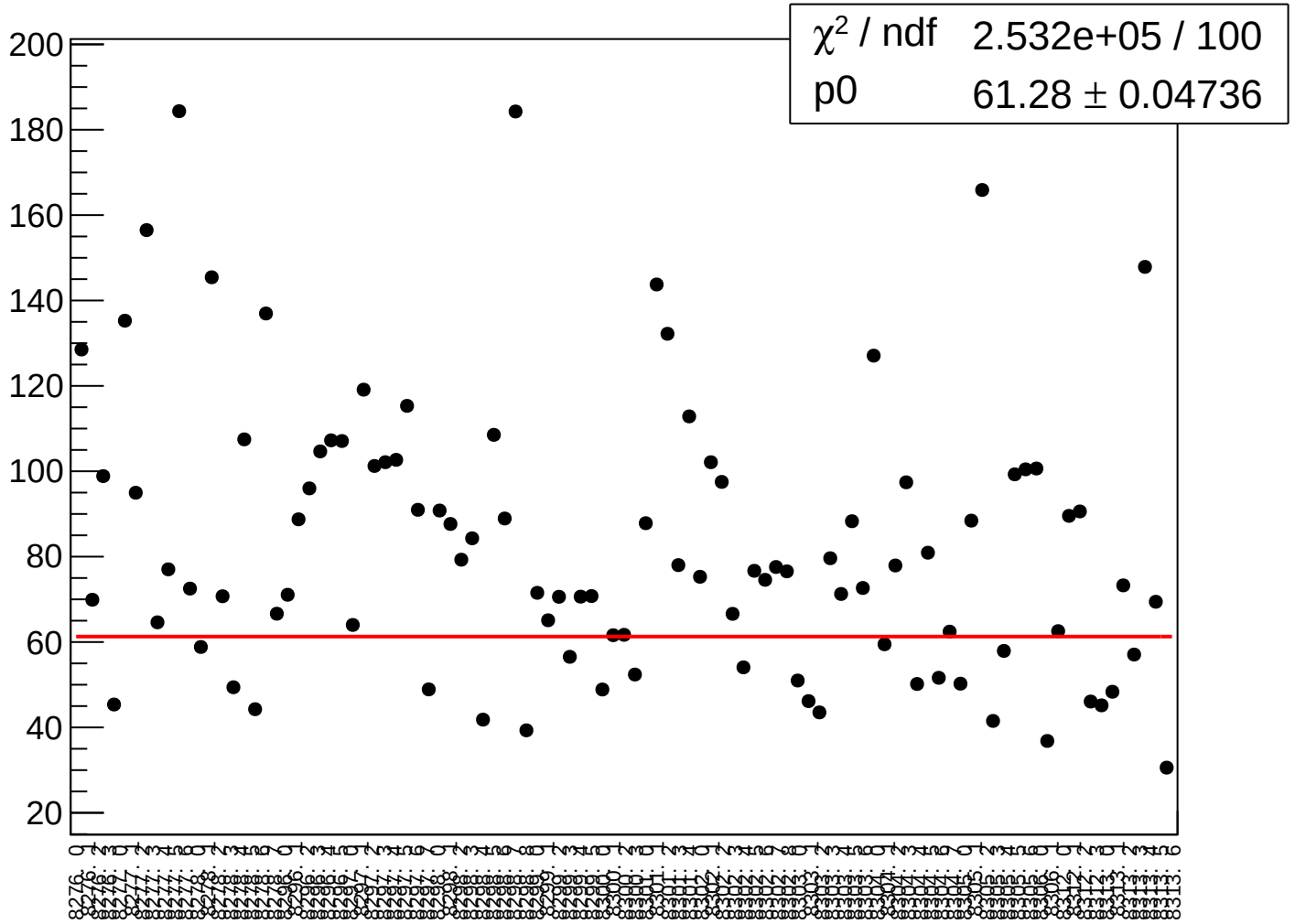

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.532e+05 / 100
p0 61.28 ± 0.04736
200
180
160
140
120
100
80
60
40
20

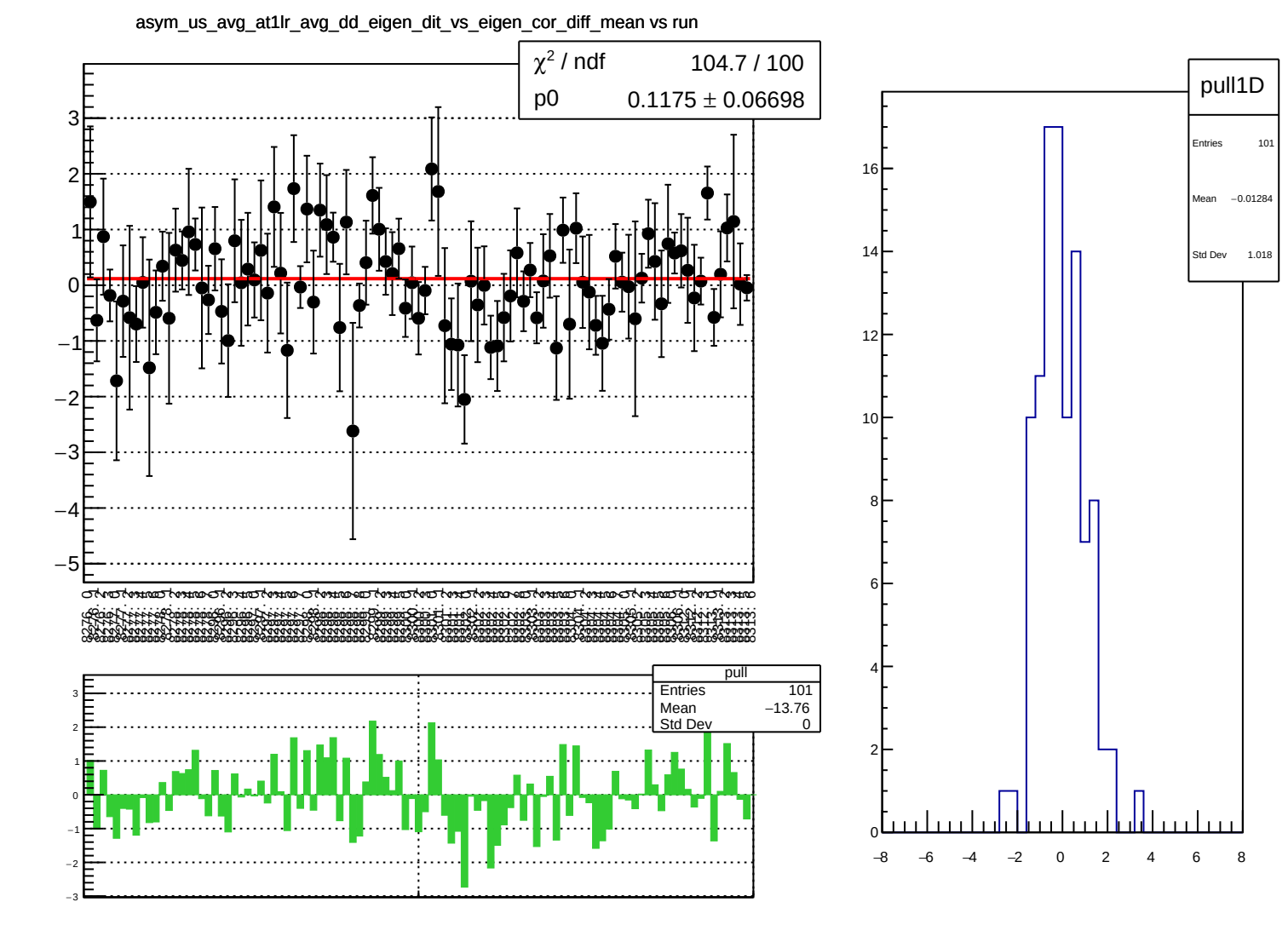

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 103.5 / 100
p0 −1.249e−06 ± 2.276e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 101
Mean 875.2
Std Dev 0
2
1
0
−1
−2
−3
−4

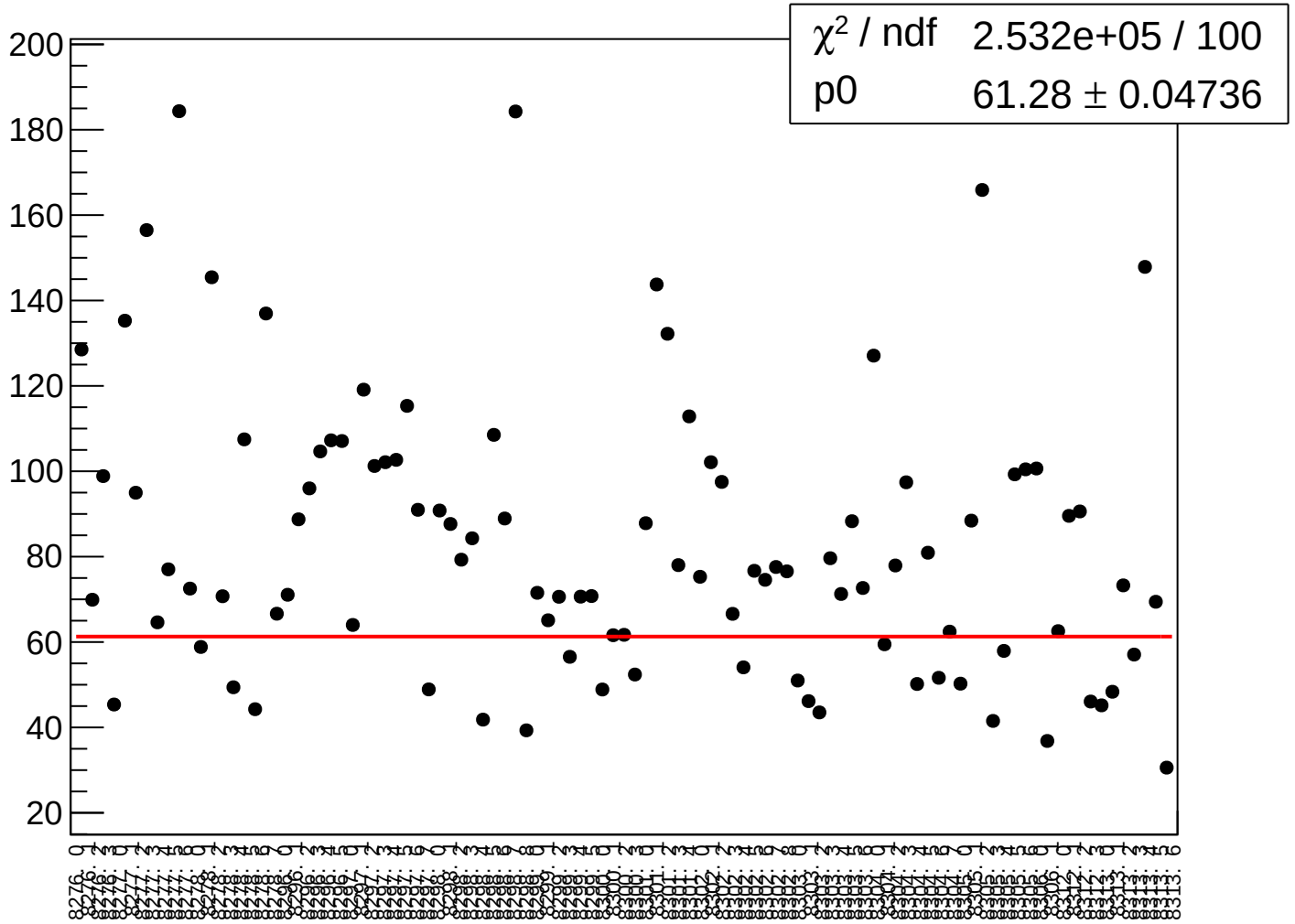

pull1D
Entries 101
Mean −0.006157
Std Dev 1.012
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

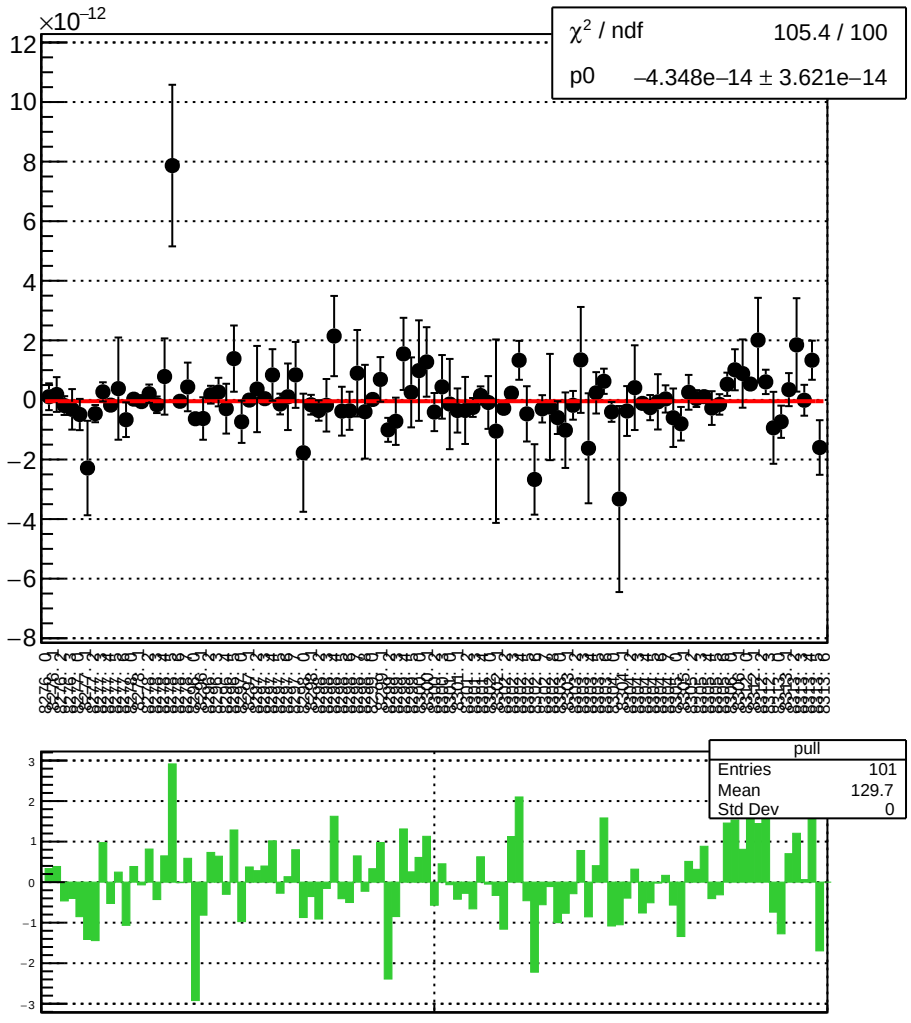

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.471e+04 / 100
p0 0.002191 ± 1.609e−06
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014

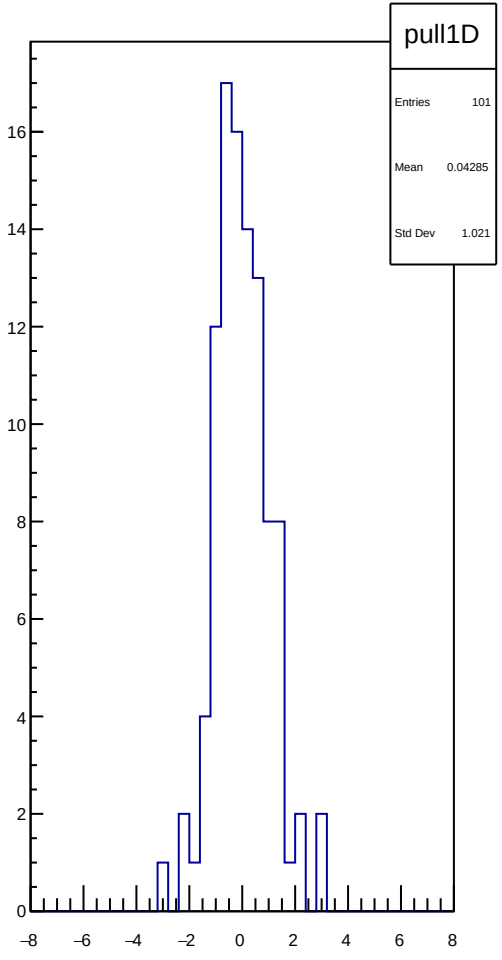

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.7 / 100
p0 0.1175 ± 0.06698
pull
Entries 101
Mean −13.76
Std Dev 0
pull1D
Entries 101
Mean −0.01284
Std Dev 1.018

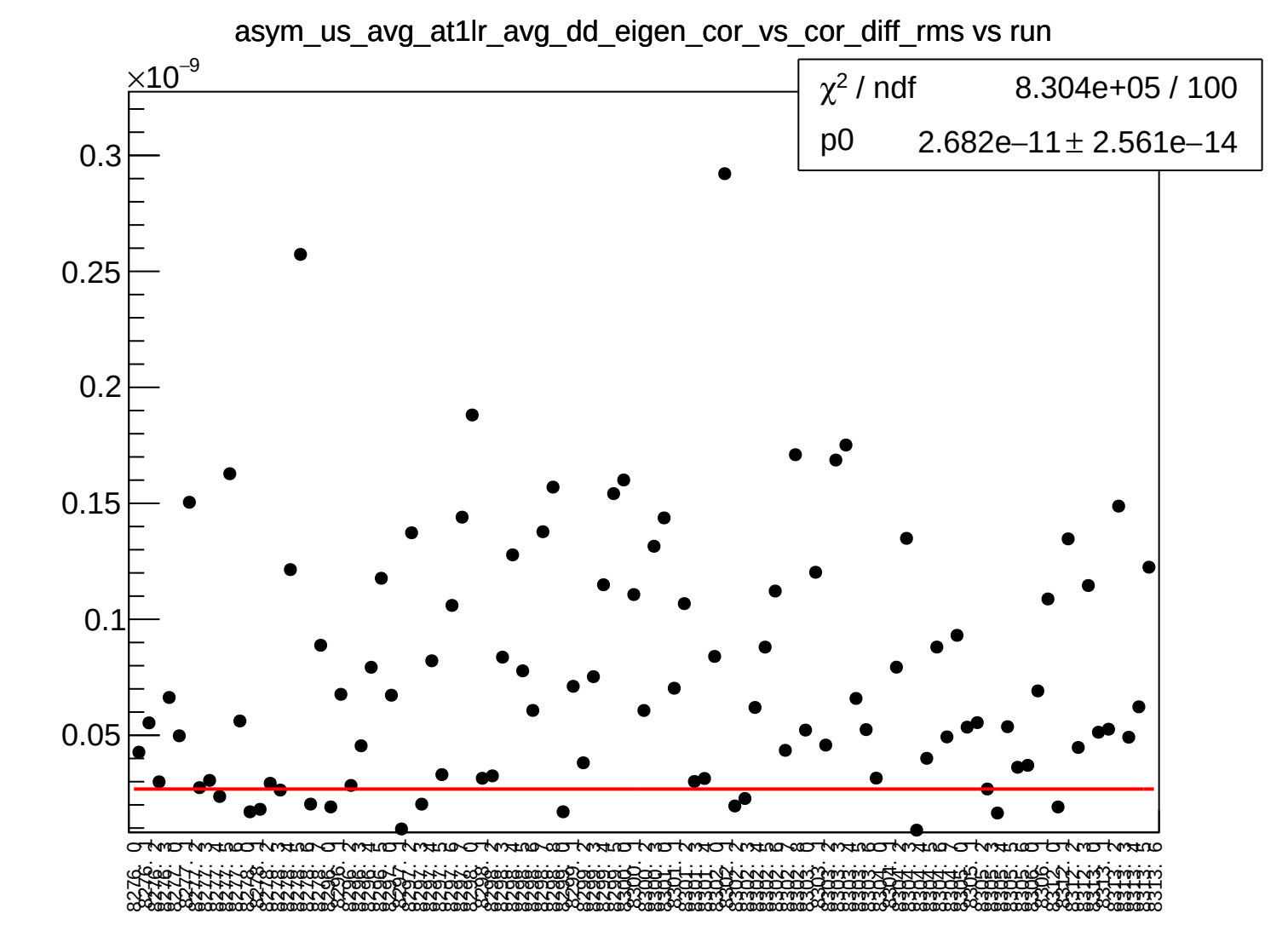

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.532e+05 / 100
p0 61.28 ± 0.04736
200
180
160
140
120
100
80
60
40
20

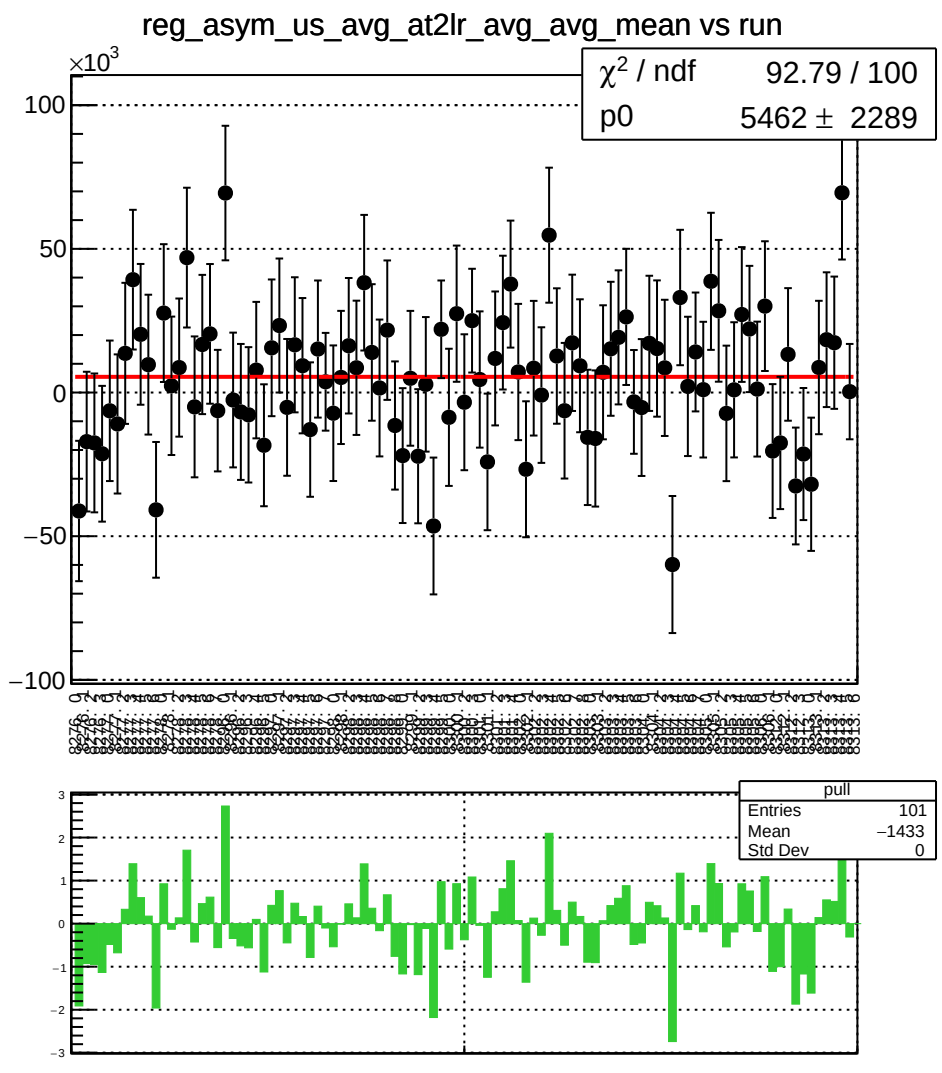

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.7 / 100
p0 0.1175 ± 0.06698
pull
Entries 101
Mean −13.76
Std Dev 0
pull1D
Entries 101
Mean −0.01284
Std Dev 1.018

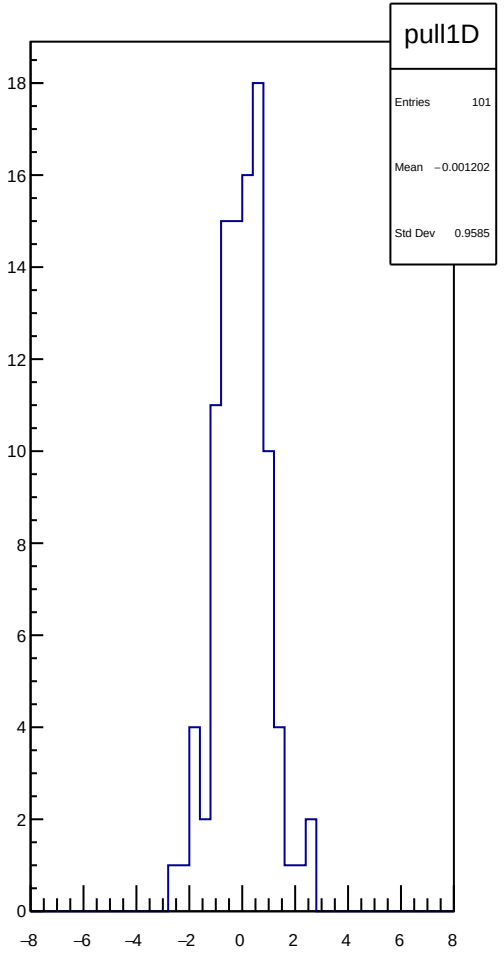

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.532e+05 / 100
p0 61.28 ± 0.04736
200
180
160
140
120
100
80
60
40
20

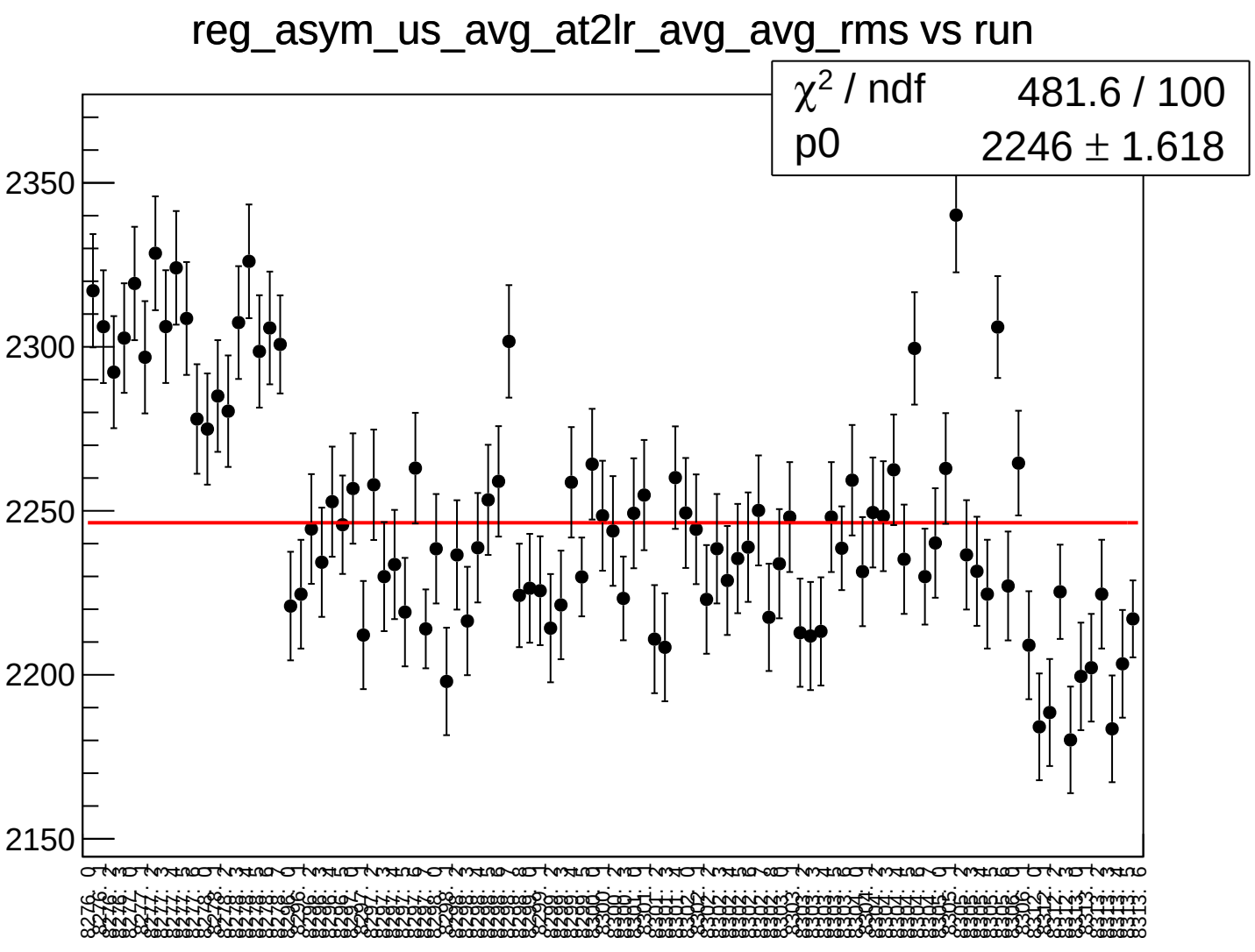

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 105.4 / 100
p0 −4.348e−14 ± 3.621e−14
pull
Entries 101
Mean 129.7
Std Dev 0

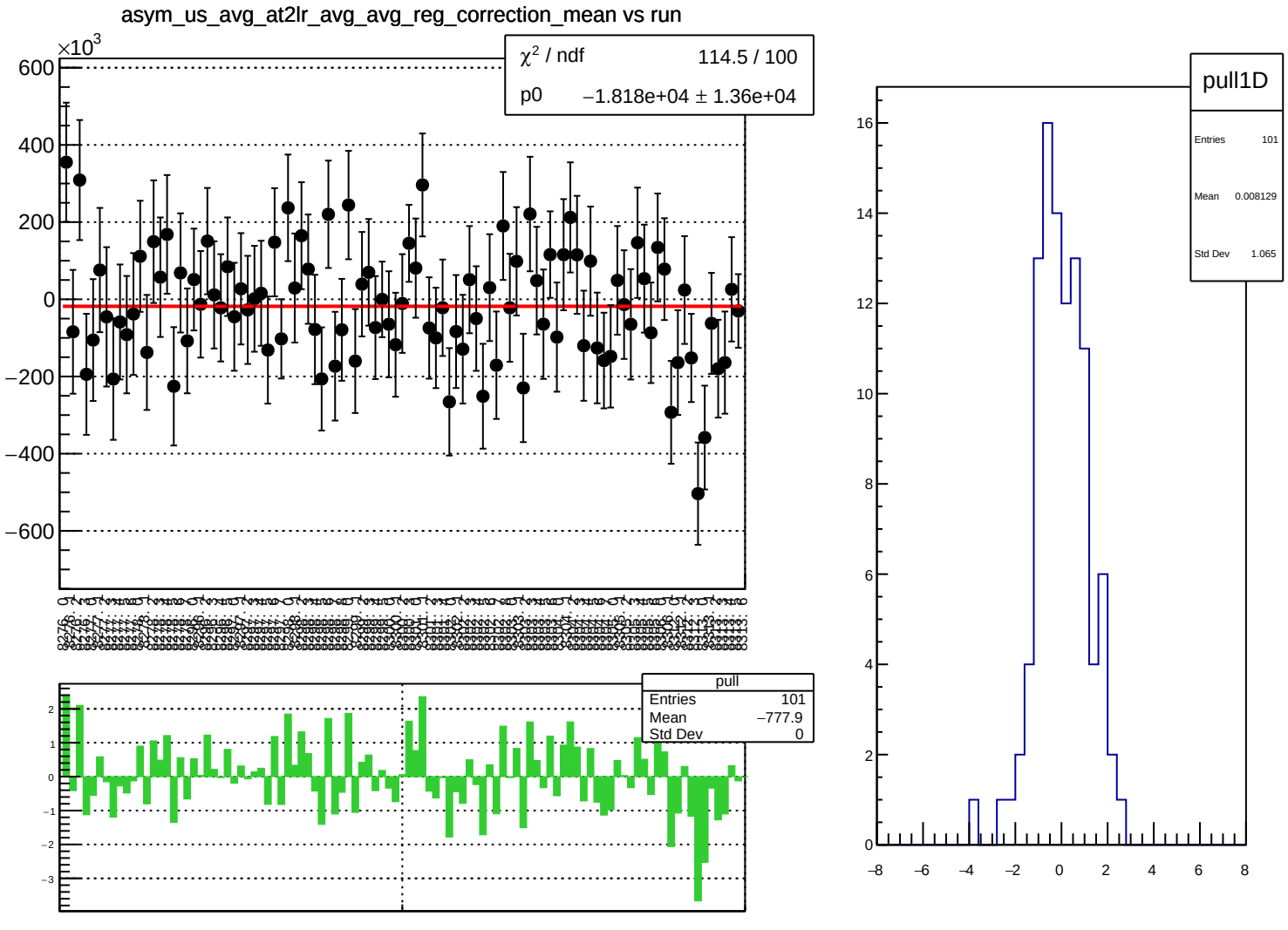

pull1D
Entries 101
Mean 0.04285
Std Dev 1.021

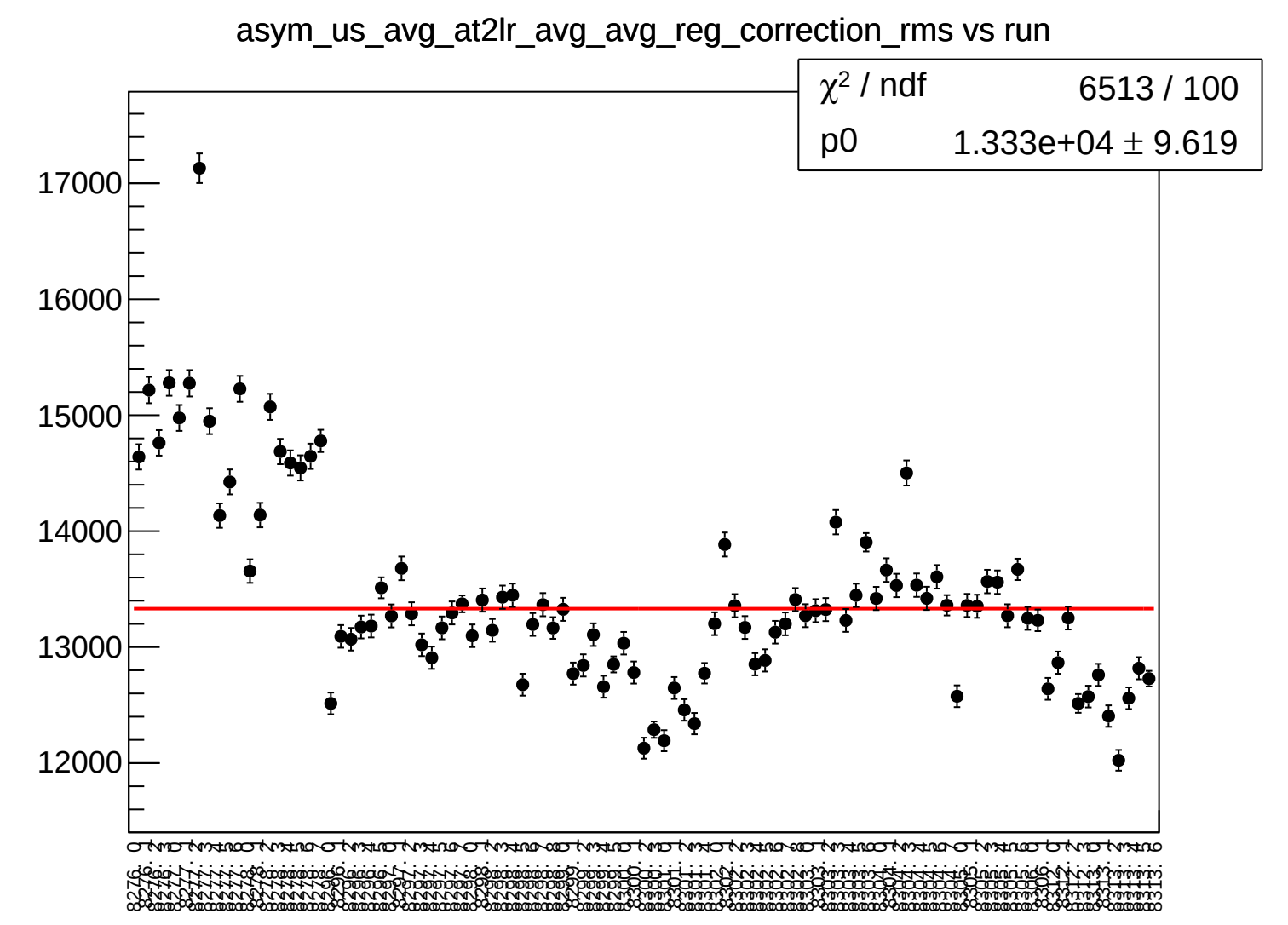

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.304e+05 / 100
p0 2.682e−11 ± 2.561e−14
0.3
0.25
0.2
0.15
0.1
0.05

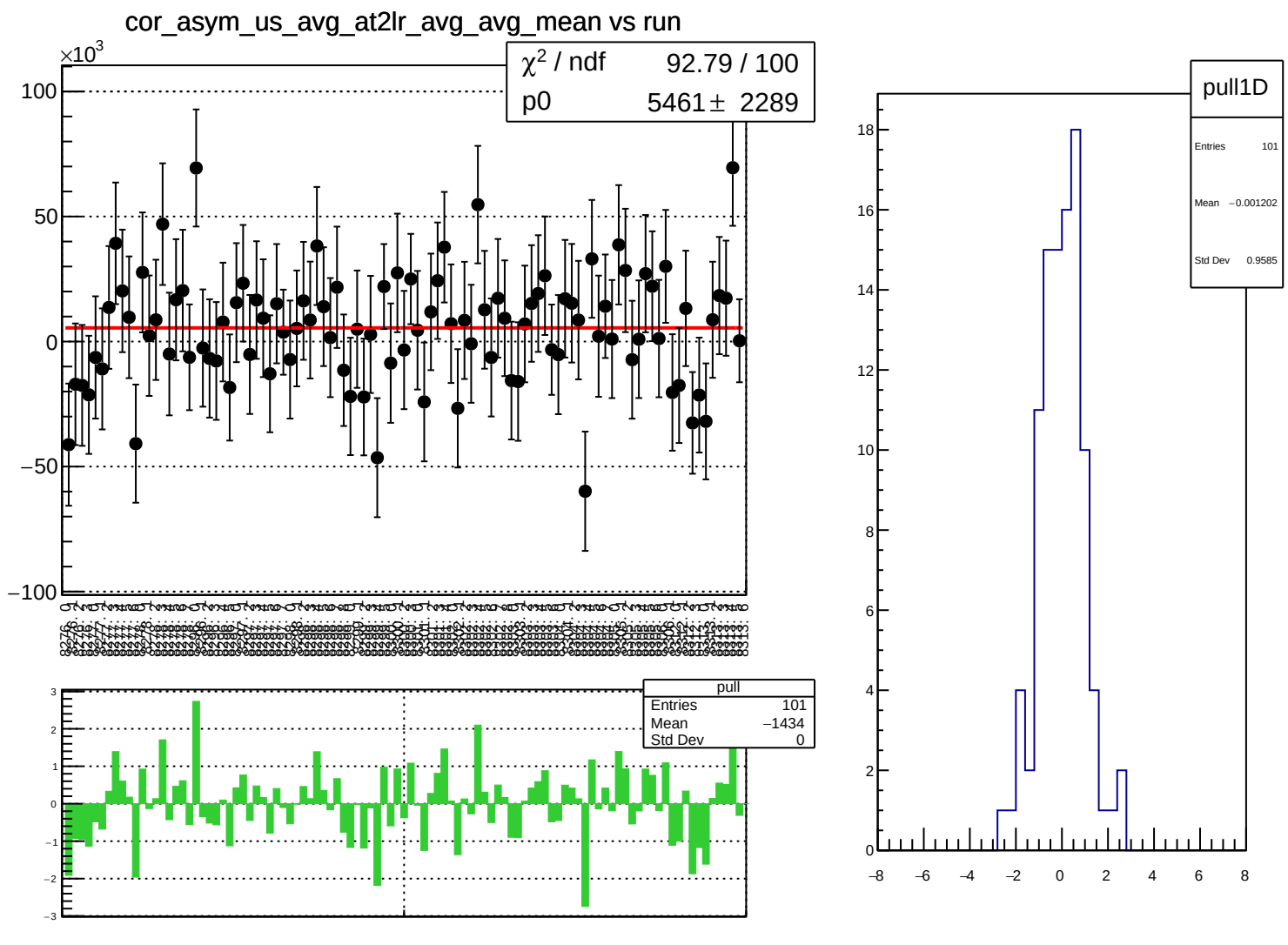

reg_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 92.79 / 100
p0 5462 ± 2289
100
50
0
−50
−100
pull
Entries 101
Mean −1433
Std Dev 0
3
2
1
0
−1
−2
−3

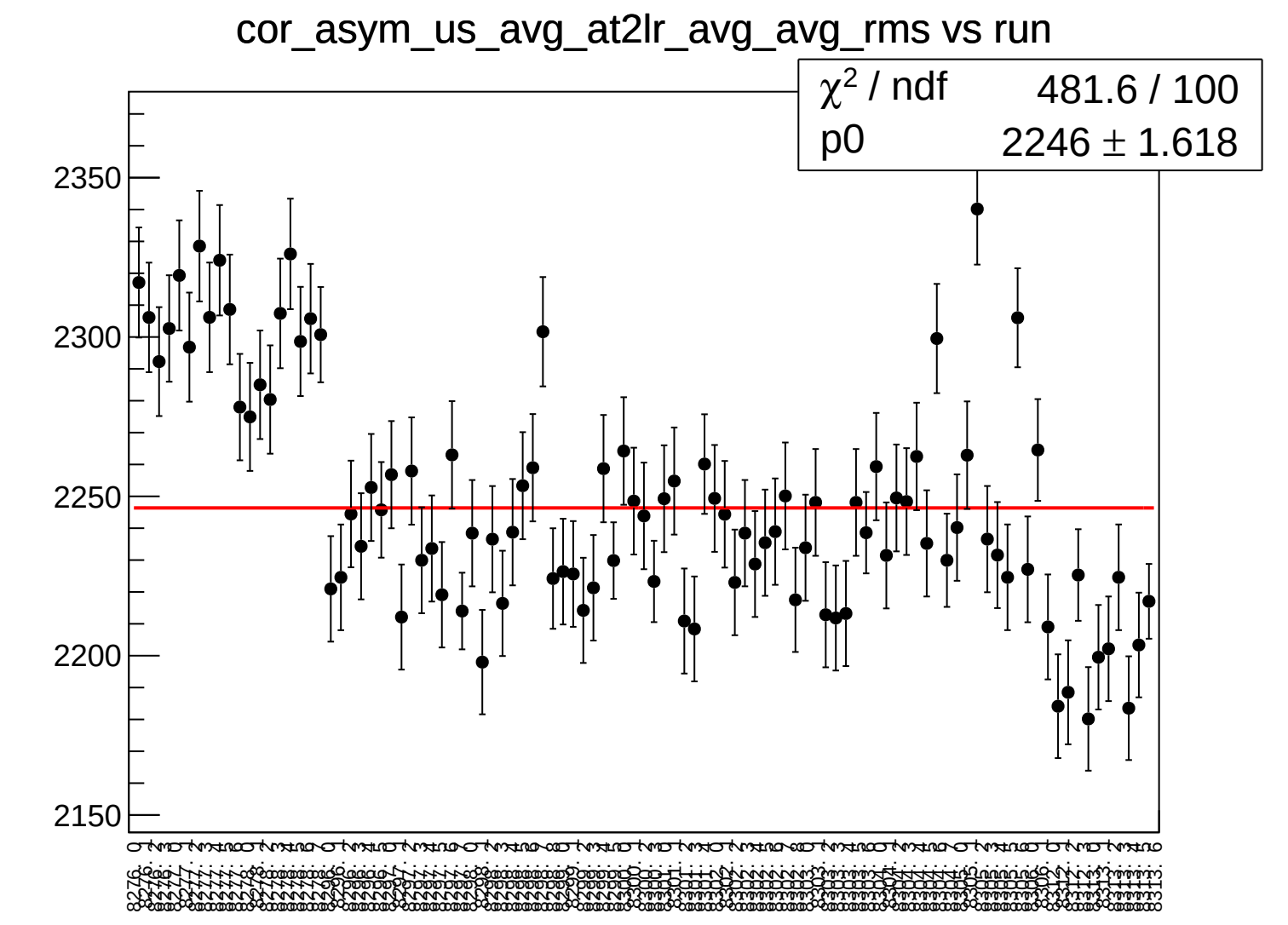

pull1D
Entries 101
Mean −0.001202
Std Dev 0.9585
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

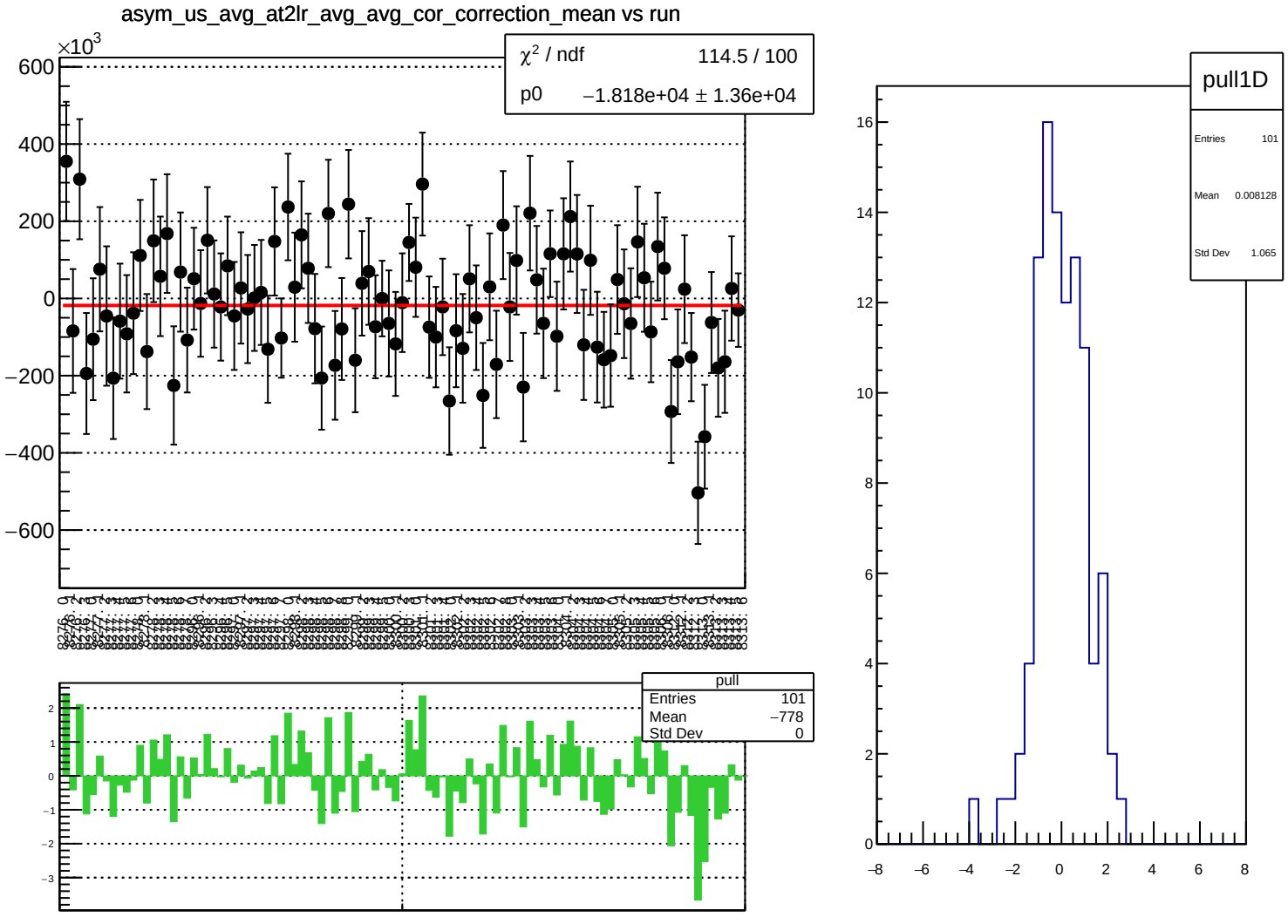

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 481.6 / 100
p0 2246 ± 1.618
2350
2300
2250
2200
2150

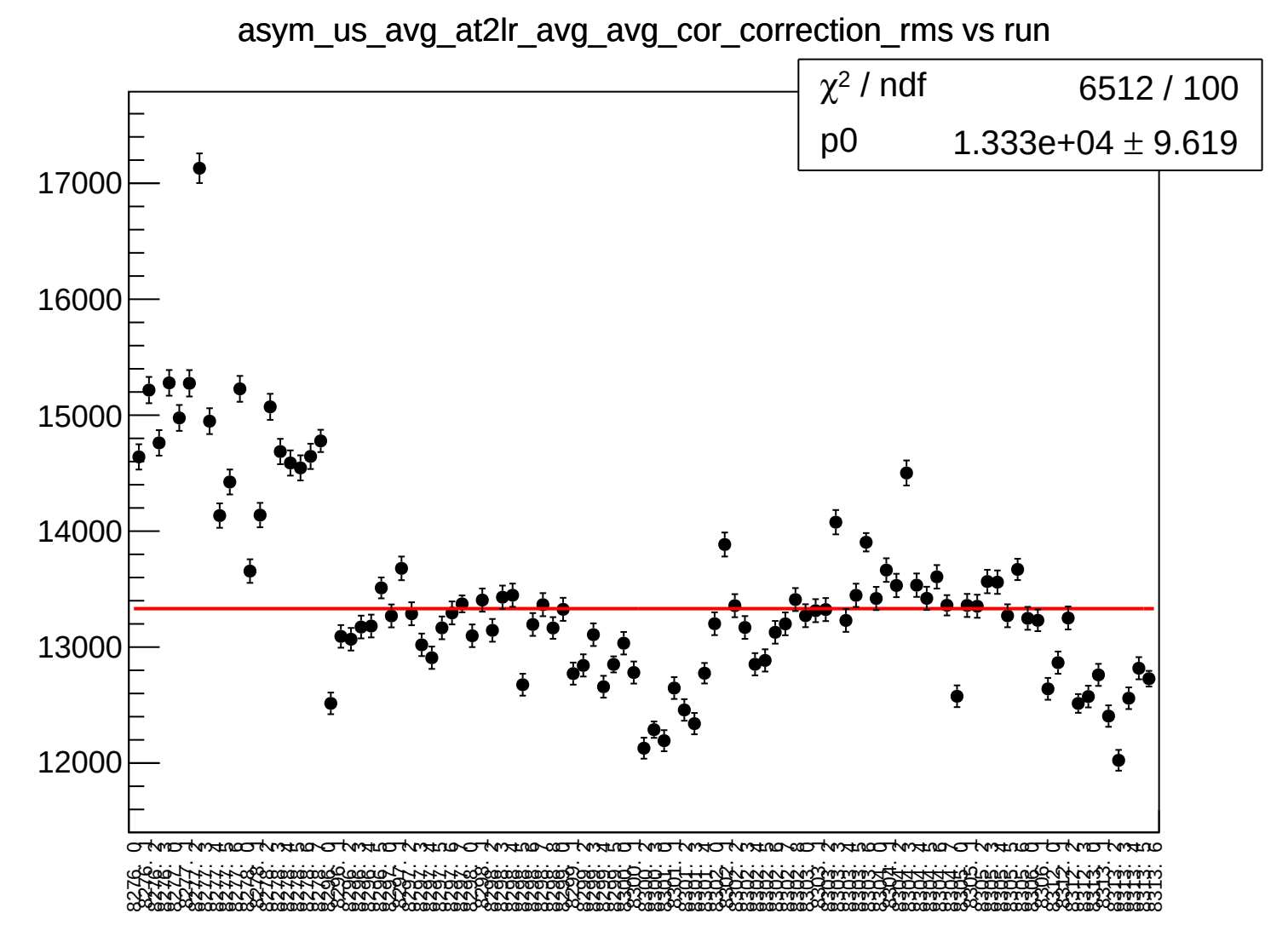

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
×10^3
600
400
200
0
−200
−400
−600
χ² / ndf 114.5 / 100
p0 −1.818e+04 ± 1.36e+04
pull
Entries 101
Mean −777.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.008129
Std Dev 1.065
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

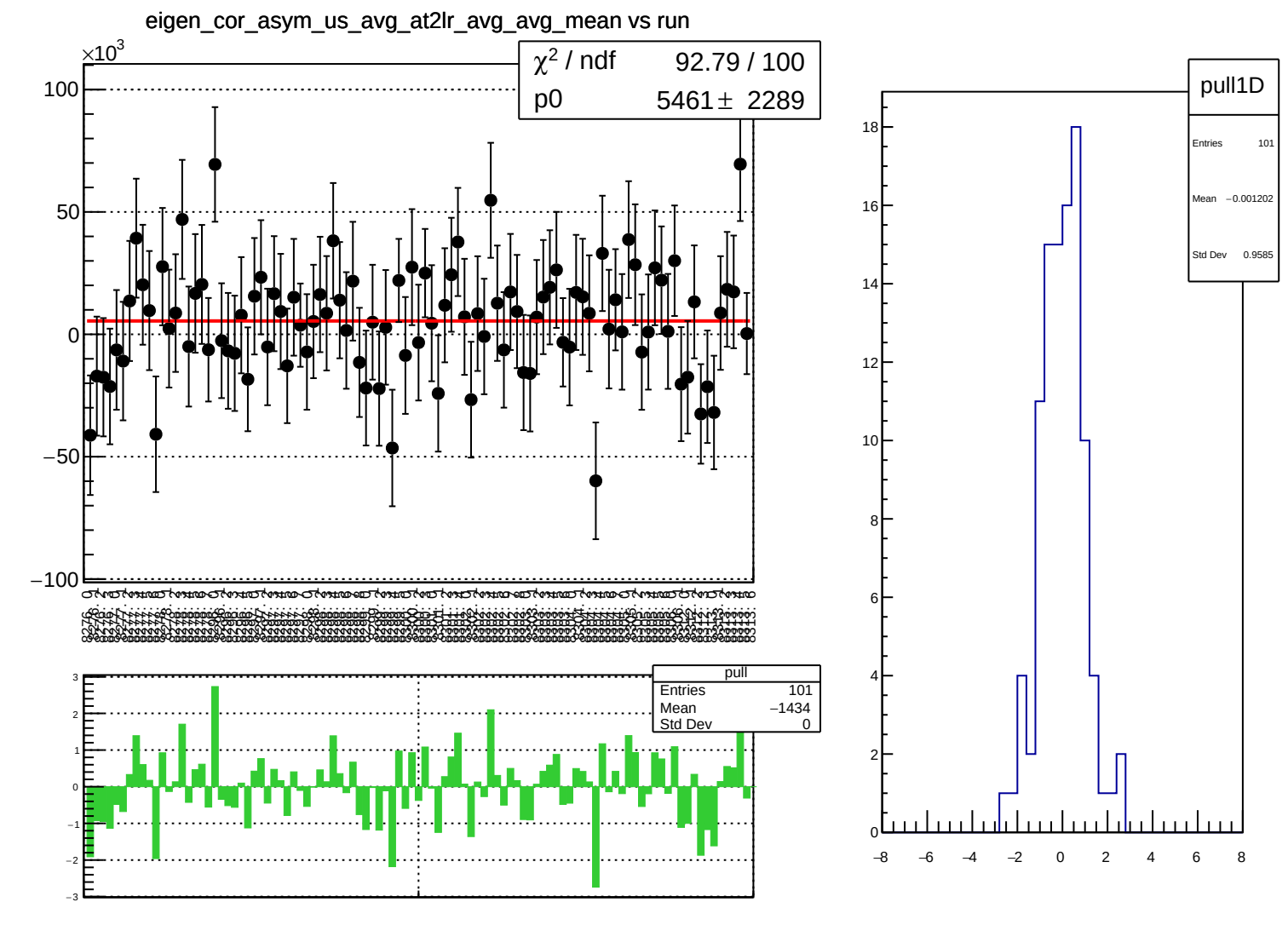

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 6513 / 100
p0 1.333e+04 ± 9.619
17000
16000
15000
14000
13000
12000

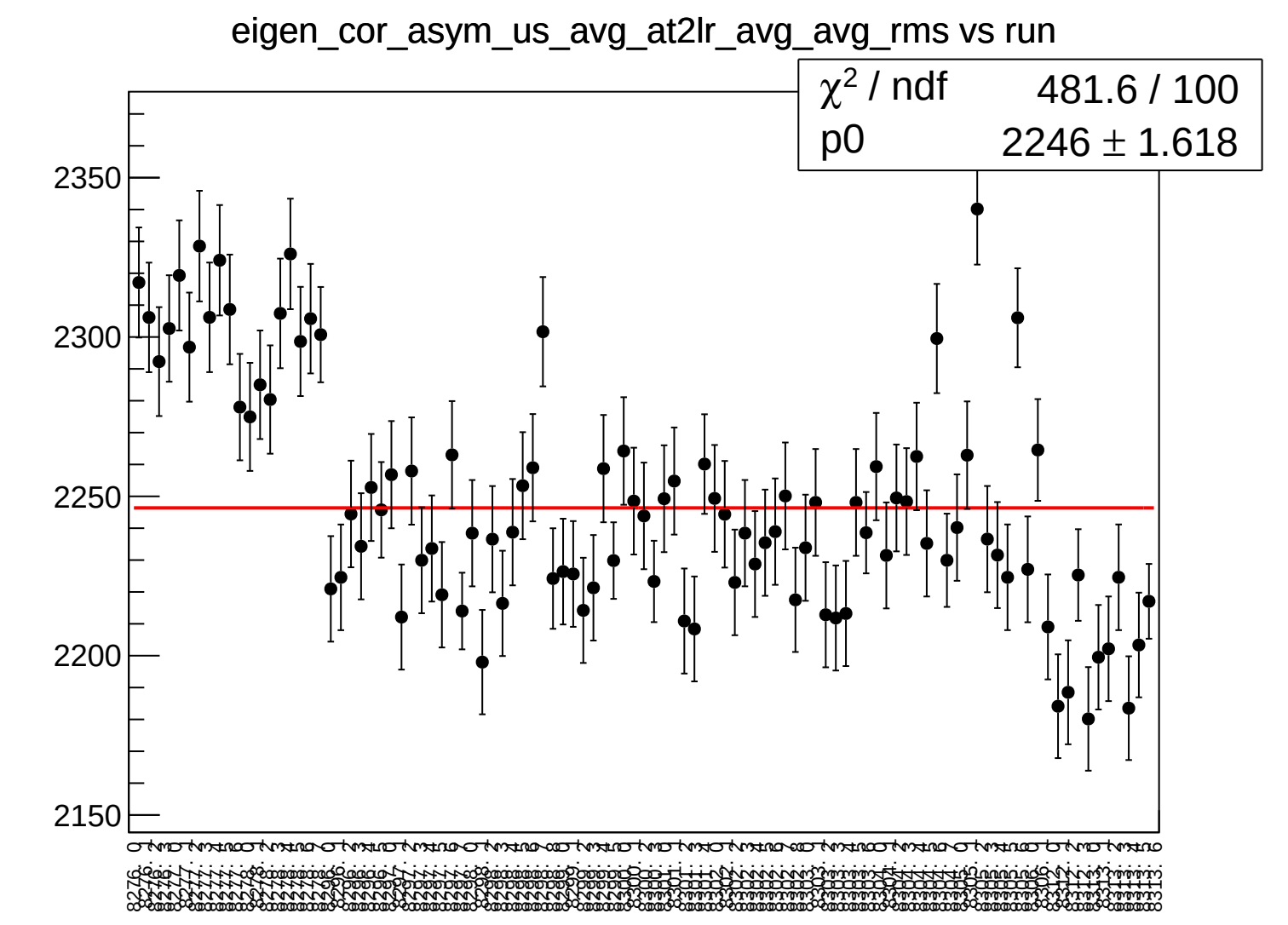

cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 92.79 / 100
p0 5461 ± 2289
100
50
0
−50
−100
pull
Entries 101
Mean −1434
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean −0.001202
Std Dev 0.9585
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

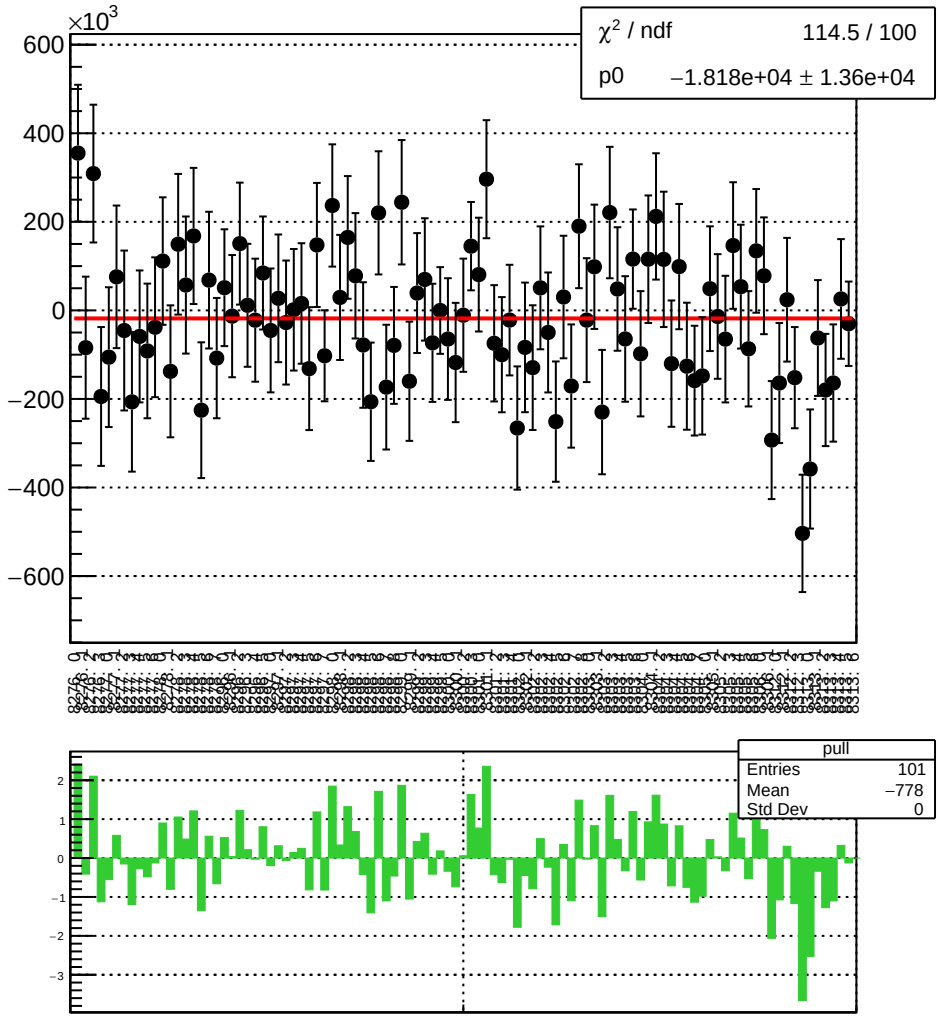

cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 481.6 / 100
p0 2246 ± 1.618
2350
2300
2250
2200
2150

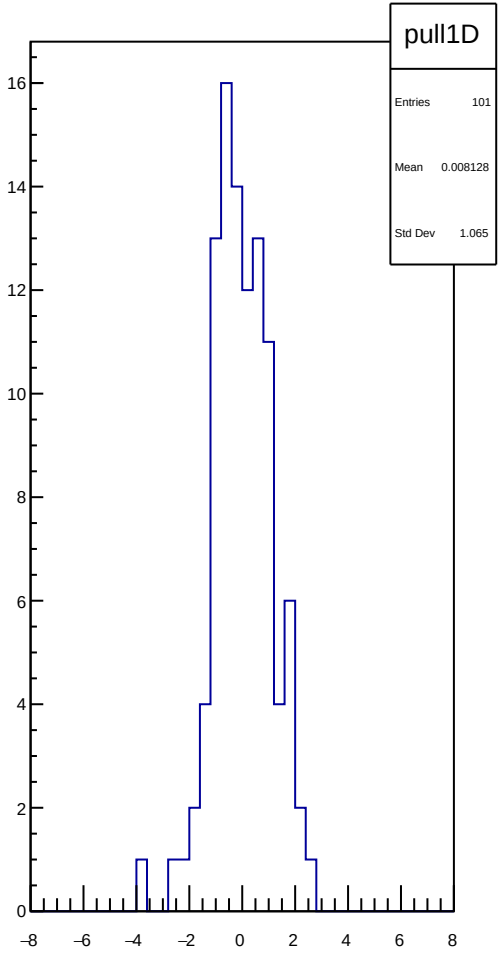

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
600
400
200
0
−200
−400
−600
χ² / ndf 114.5 / 100
p0 −1.818e+04 ± 1.36e+04
pull
Entries 101
Mean −778
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.008128
Std Dev 1.065
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

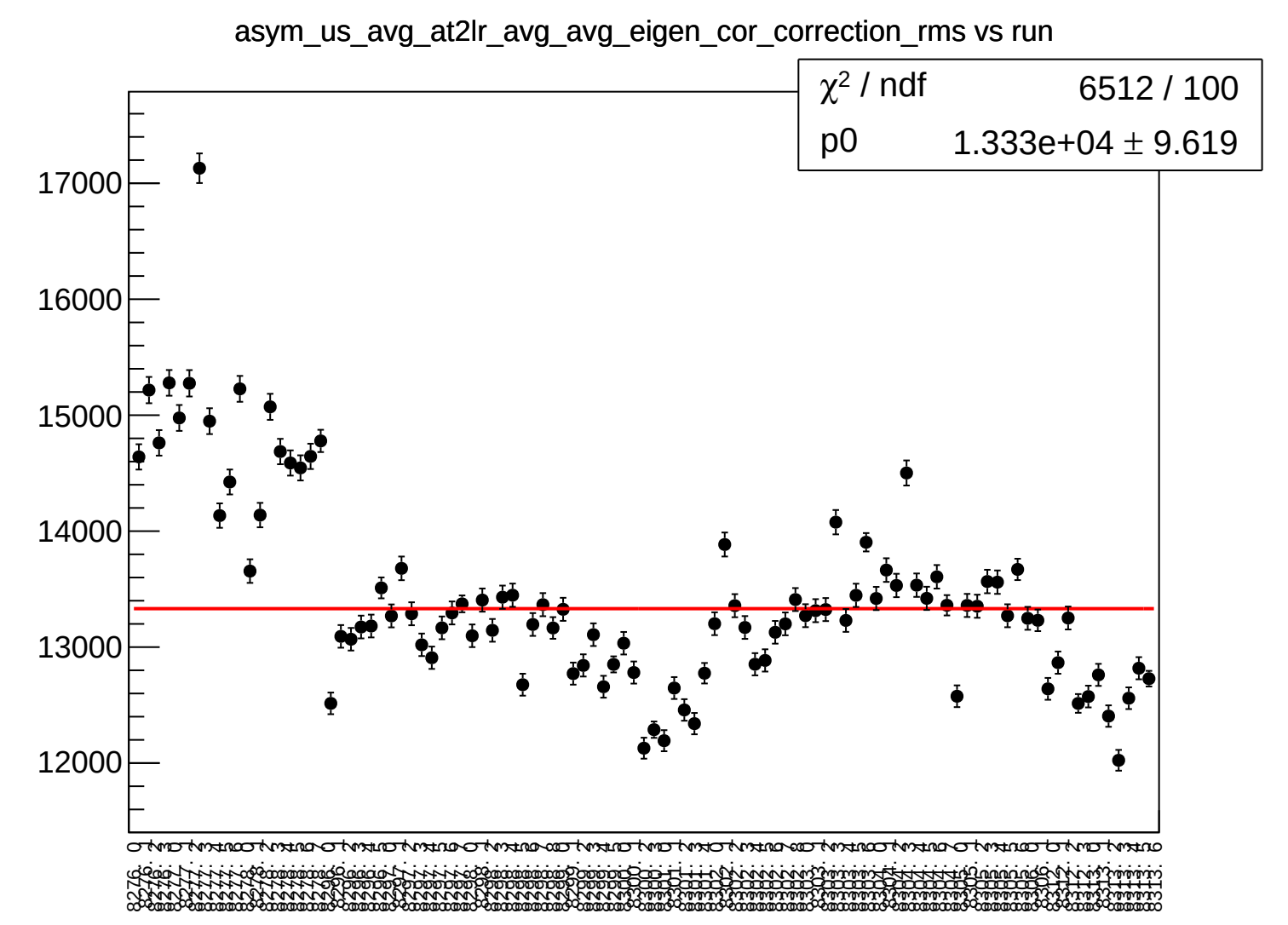

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 6512 / 100
p0 1.333e+04 ± 9.619
17000
16000
15000
14000
13000
12000

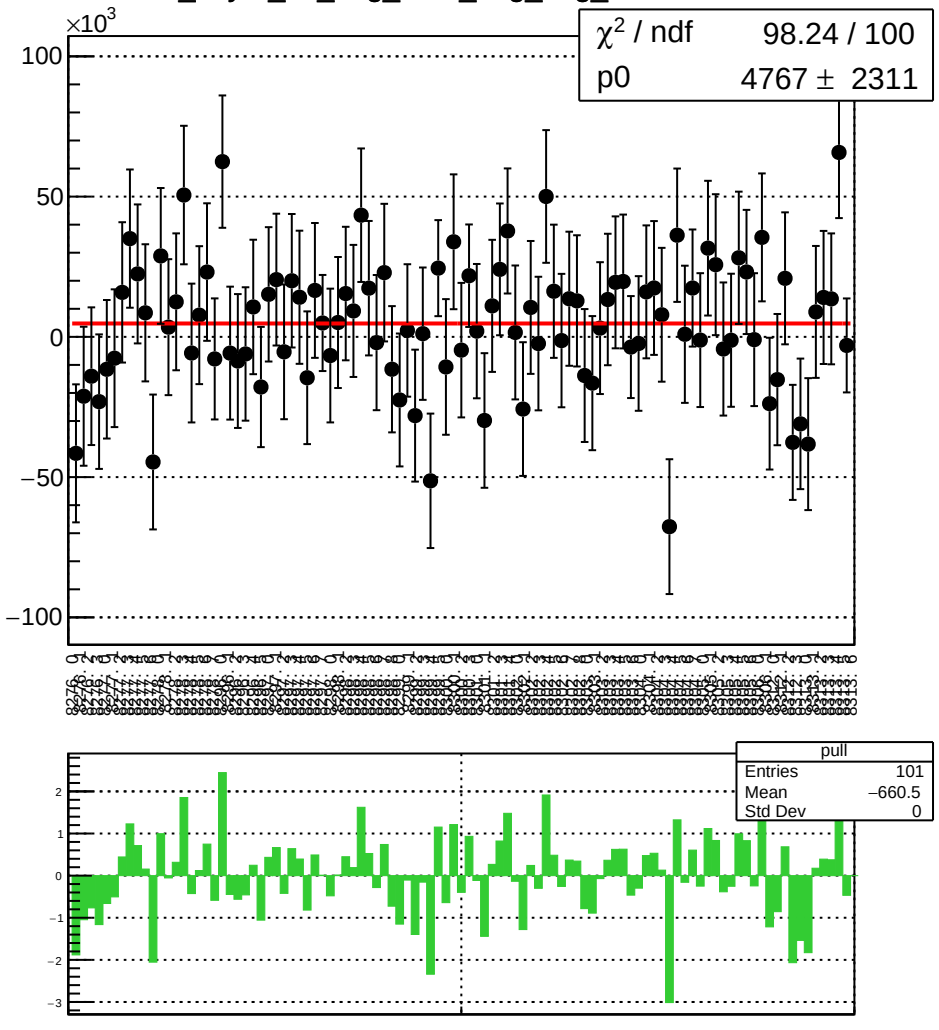

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 92.79 / 100
p0 5461 ± 2289
100
50
0
−50
−100
pull
Entries 101
Mean −1434
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean −0.001202
Std Dev 0.9585
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

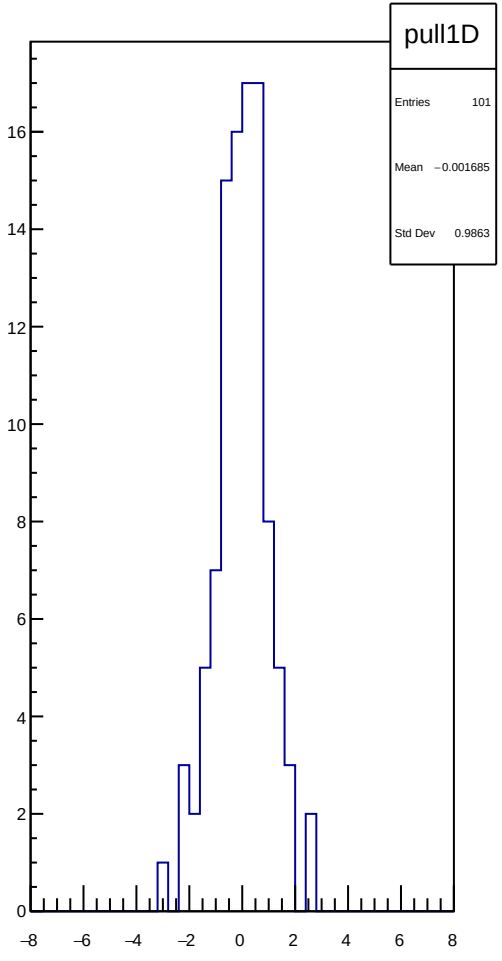

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 481.6 / 100
p0 2246 ± 1.618
2350
2300
2250
2200
2150

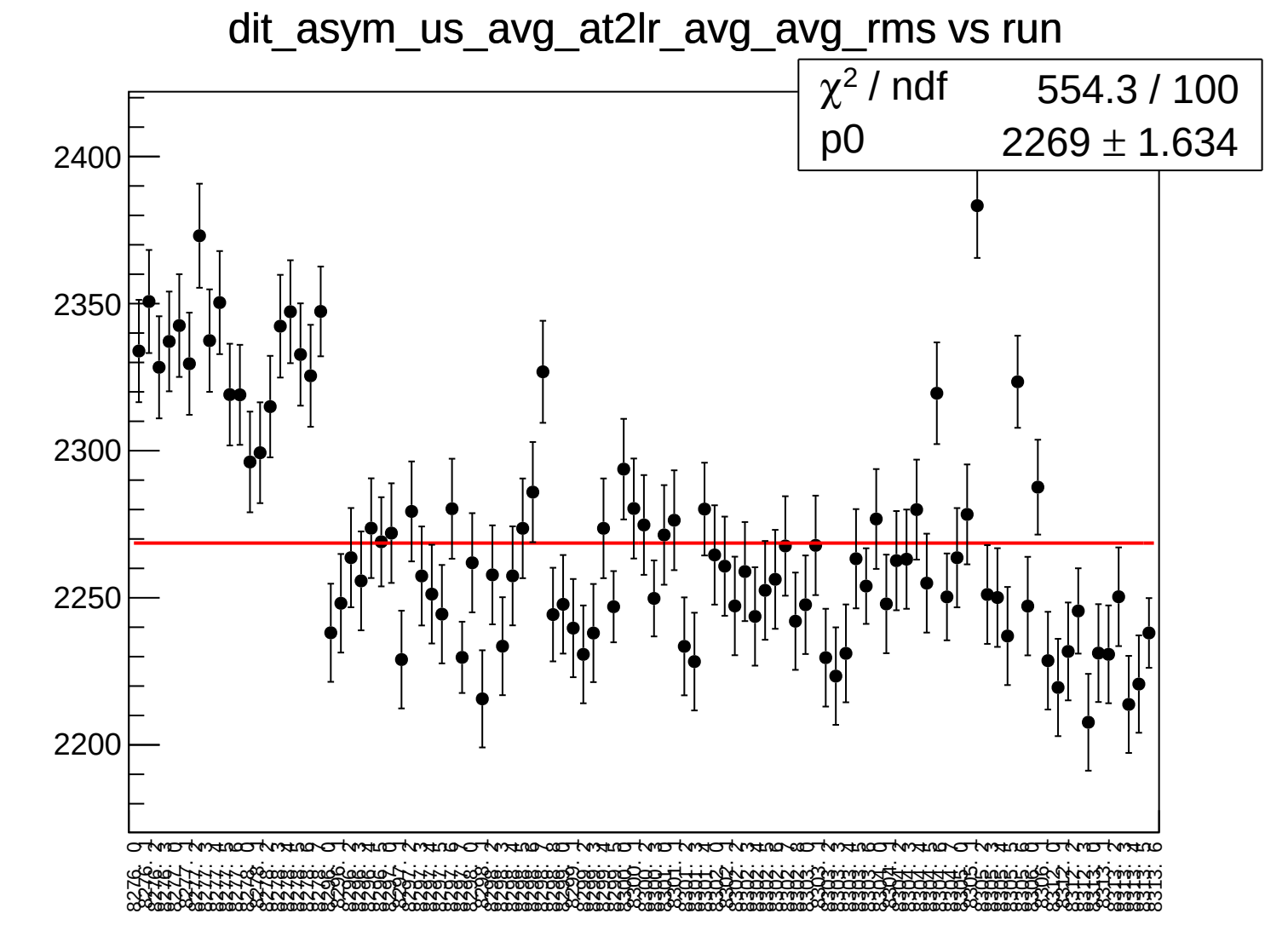

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 114.5 / 100
p0 −1.818e+04 ± 1.36e+04
pull
Entries 101
Mean −778
Std Dev 0

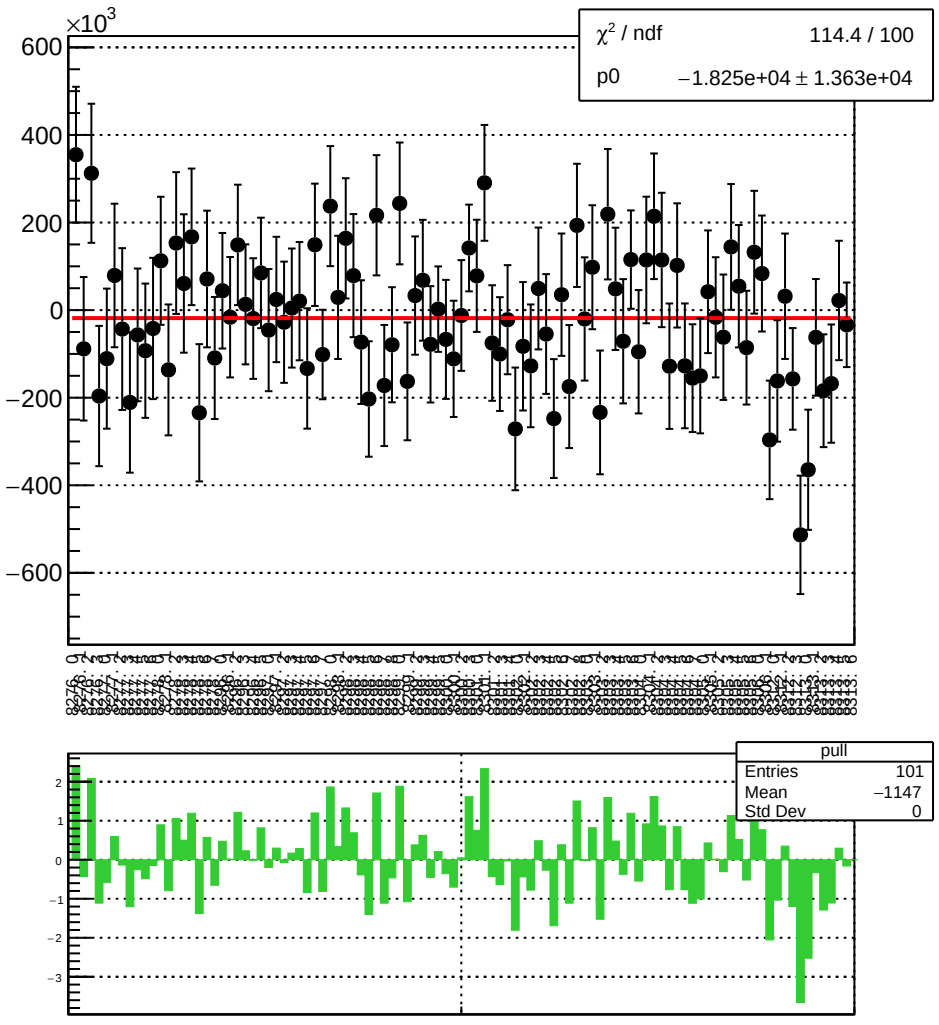

pull1D
Entries 101
Mean 0.008128
Std Dev 1.065

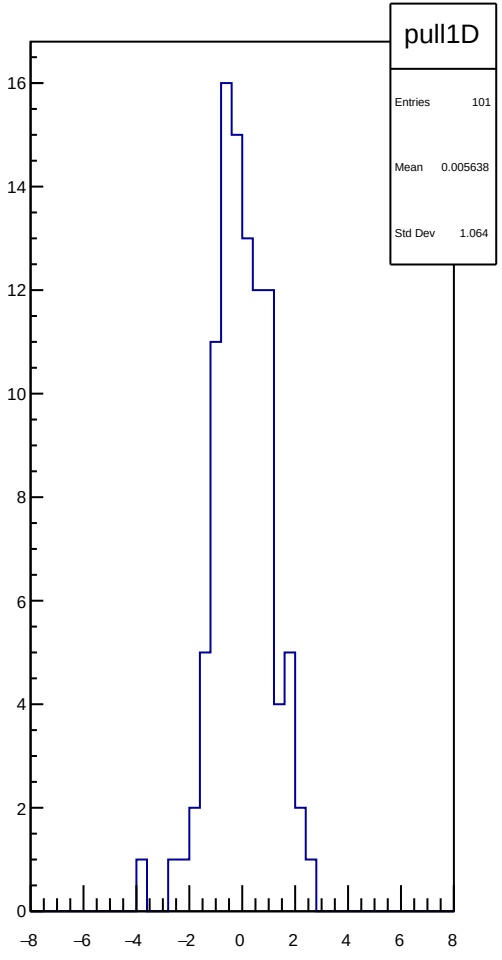

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 6512 / 100
p0 1.333e+04 ± 9.619
17000
16000
15000
14000
13000
12000

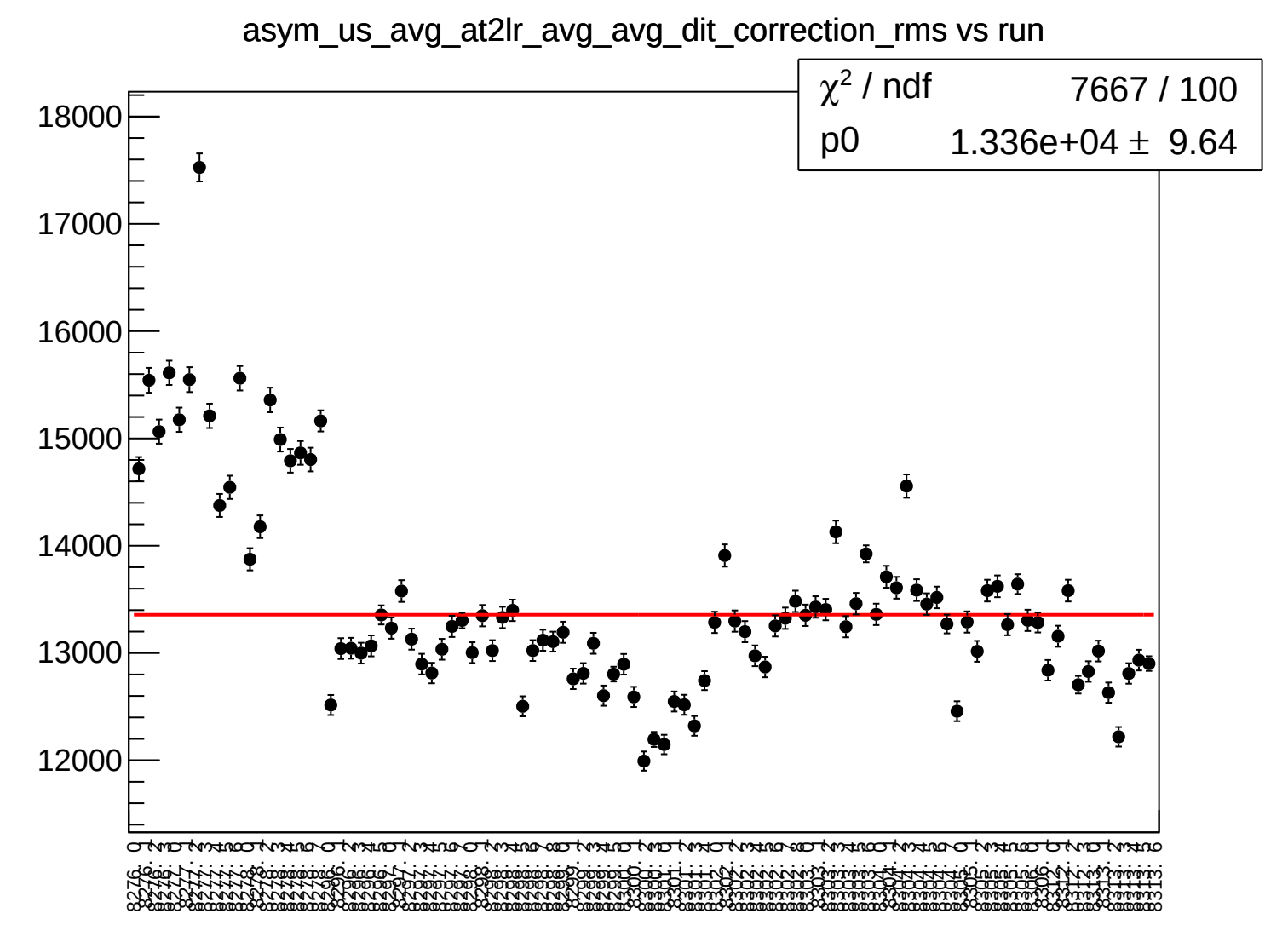

dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 98.24 / 100
p0 4767 ± 2311
pull
Entries 101
Mean −660.5
Std Dev 0
2
1
0
−1
−2
−3

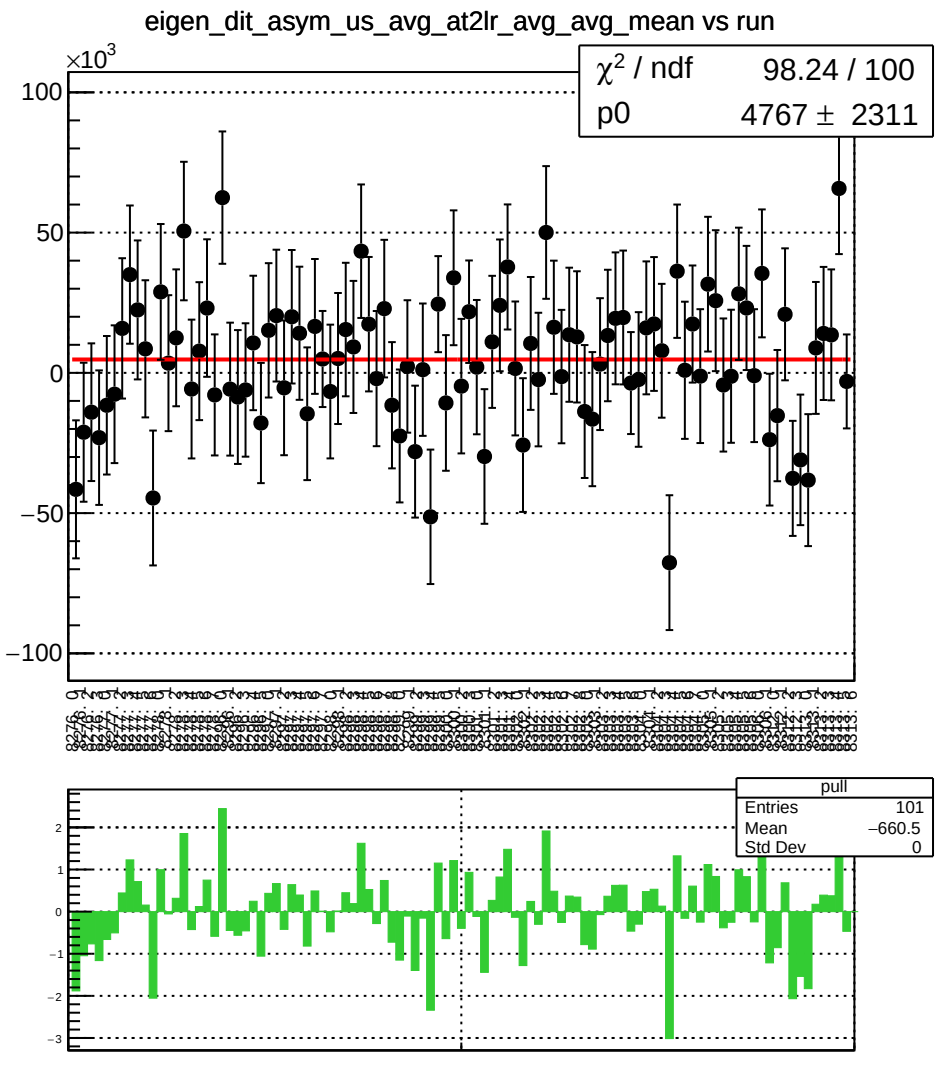

pull1D
Entries 101
Mean −0.001685
Std Dev 0.9863
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

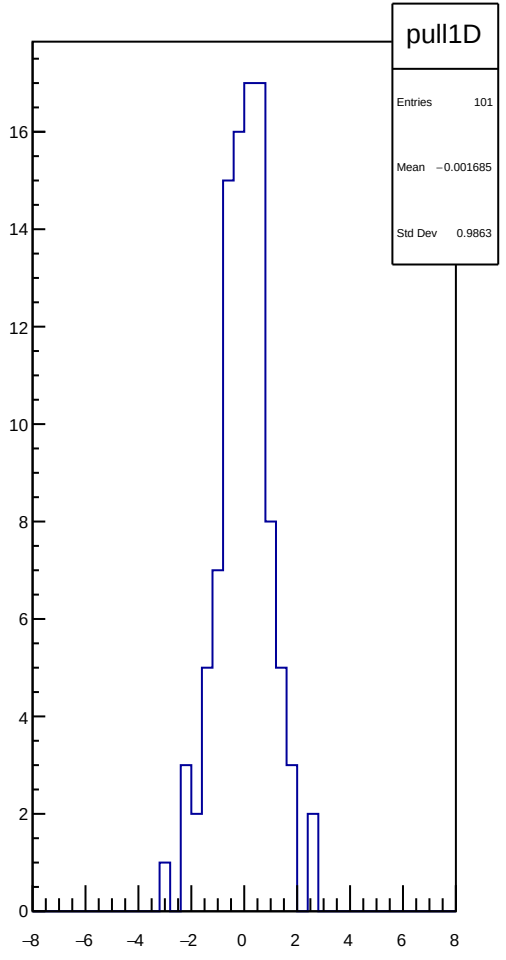

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 554.3 / 100
p0 2269 ± 1.634
2400
2350
2300
2250
2200

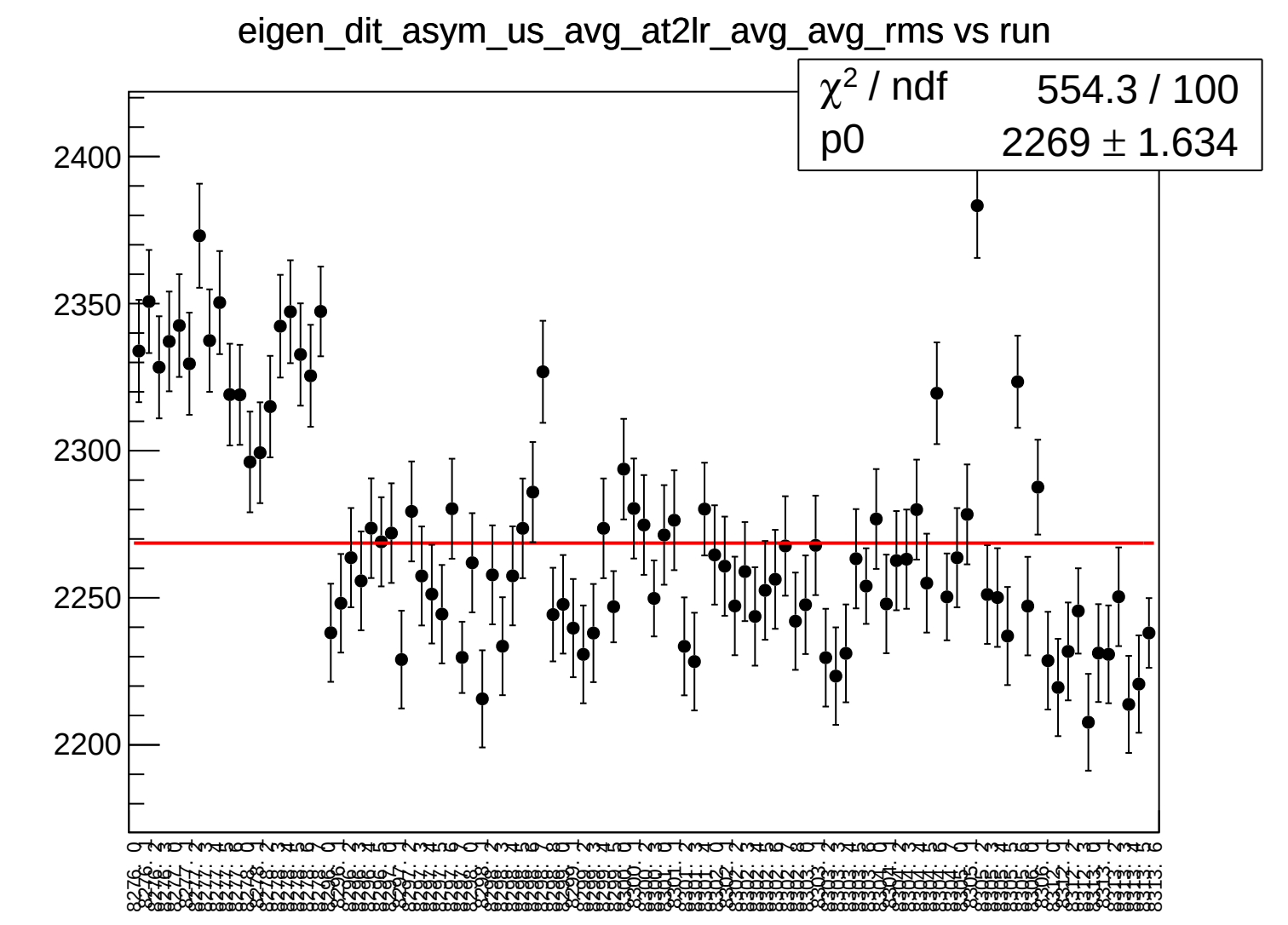

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
600
400
200
0
−200
−400
−600
χ² / ndf 114.4 / 100
p0 −1.825e+04 ± 1.363e+04
pull
Entries 101
Mean −1147
Std Dev 0
2
1
0
−1
−2
−3

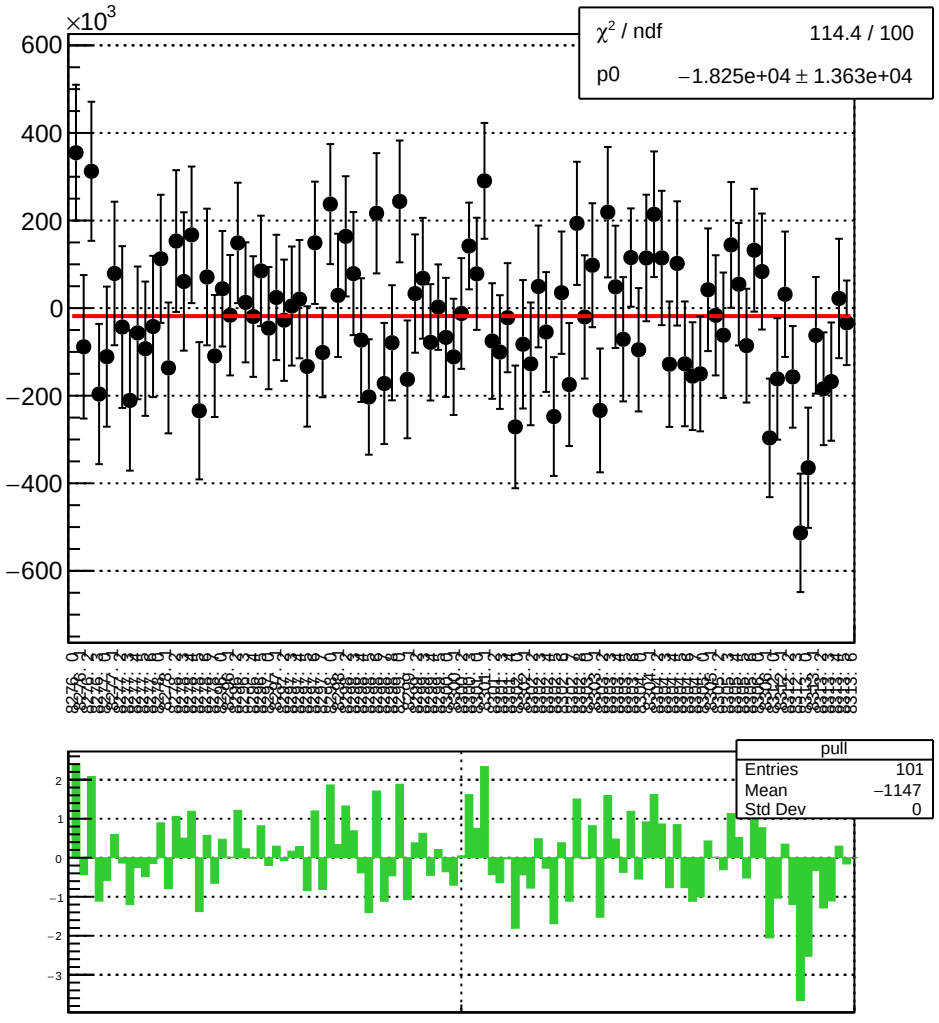

pull1D
Entries 101
Mean 0.005638
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

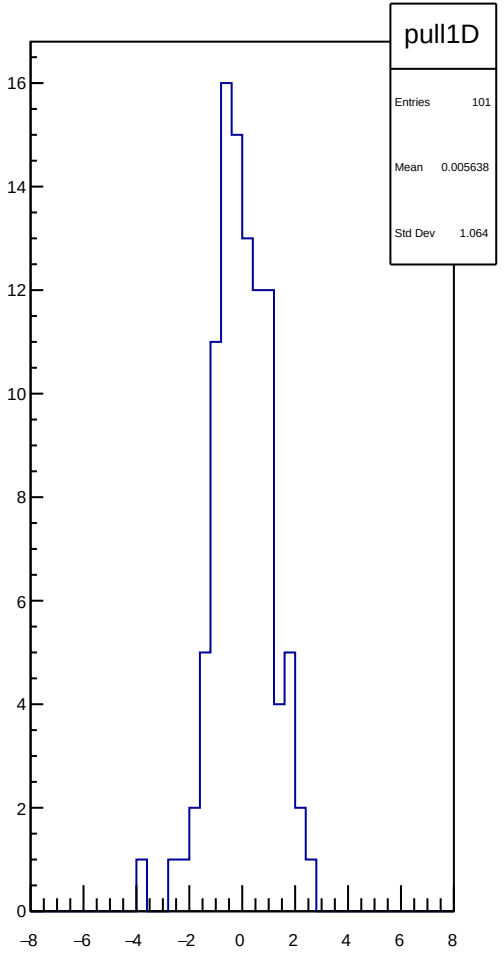

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 7667 / 100
p0 1.336e+04 ± 9.64
18000
17000
16000
15000
14000
13000
12000

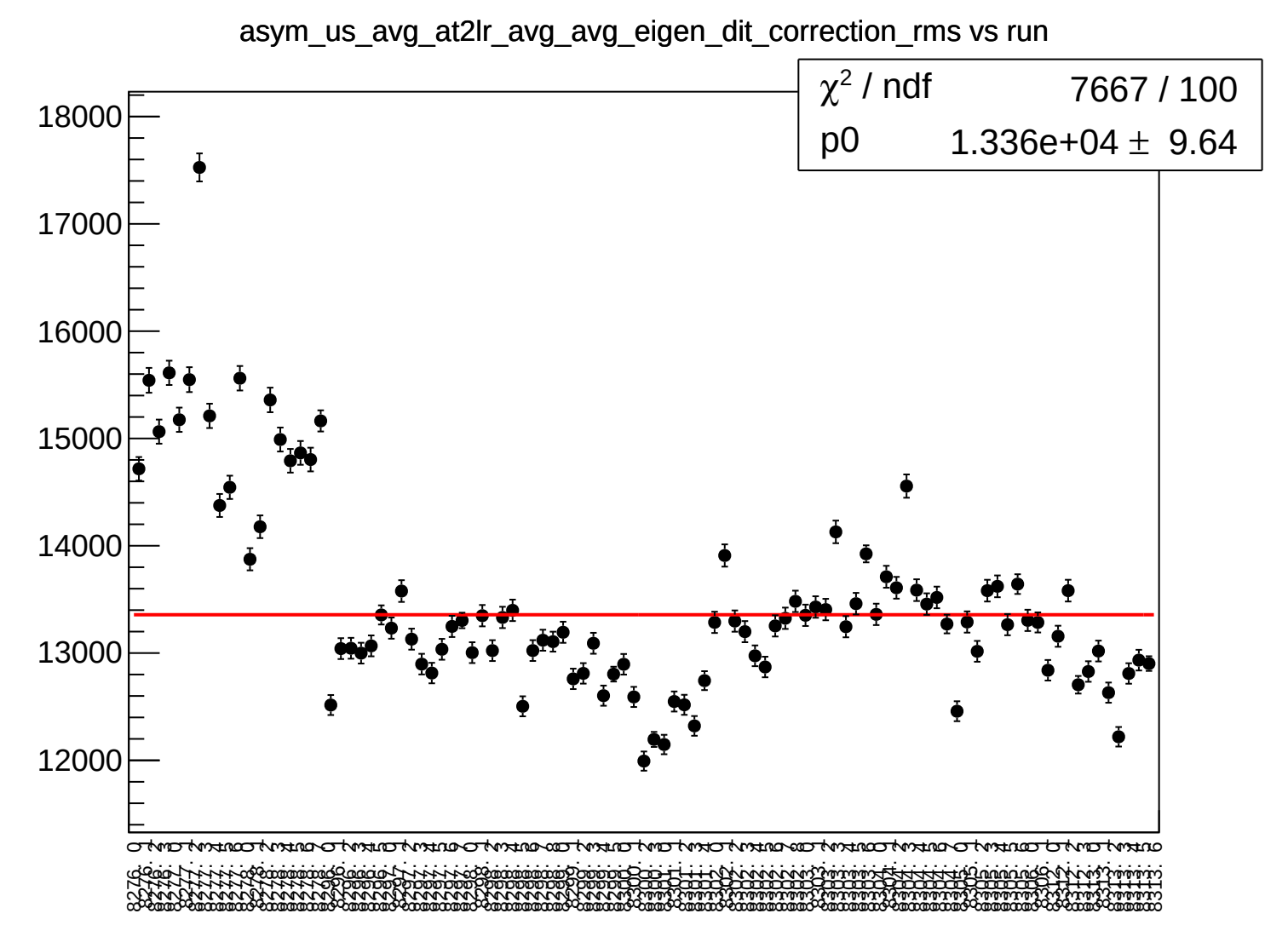

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 98.24 / 100
p0 4767 ± 2311
pull
Entries 101
Mean −660.5
Std Dev 0
2
1
0
−1
−2
−3

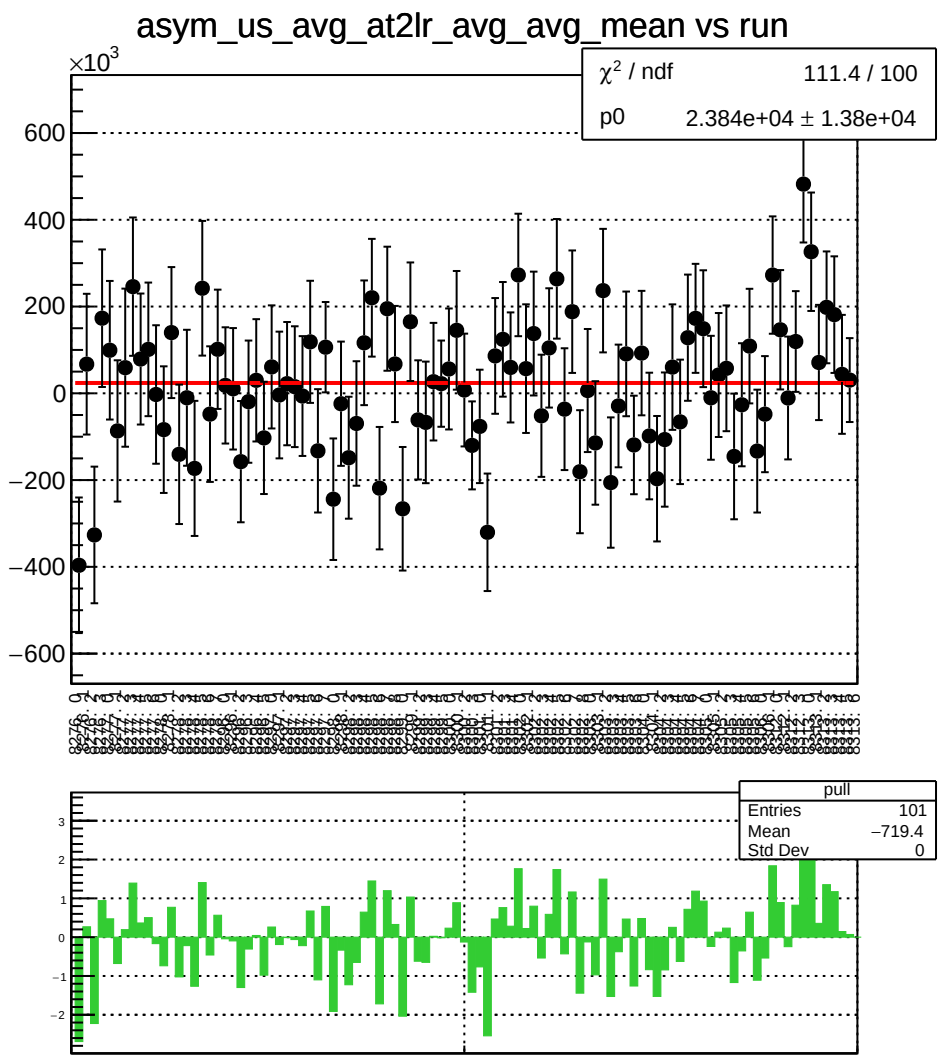

pull1D
Entries 101
Mean −0.001685
Std Dev 0.9863
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

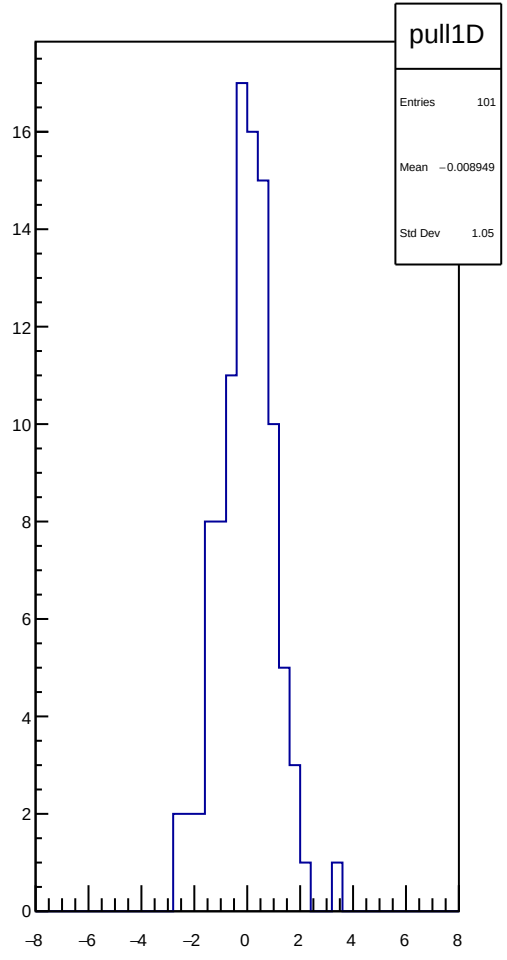

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 554.3 / 100
p0 2269 ± 1.634
2400
2350
2300
2250
2200

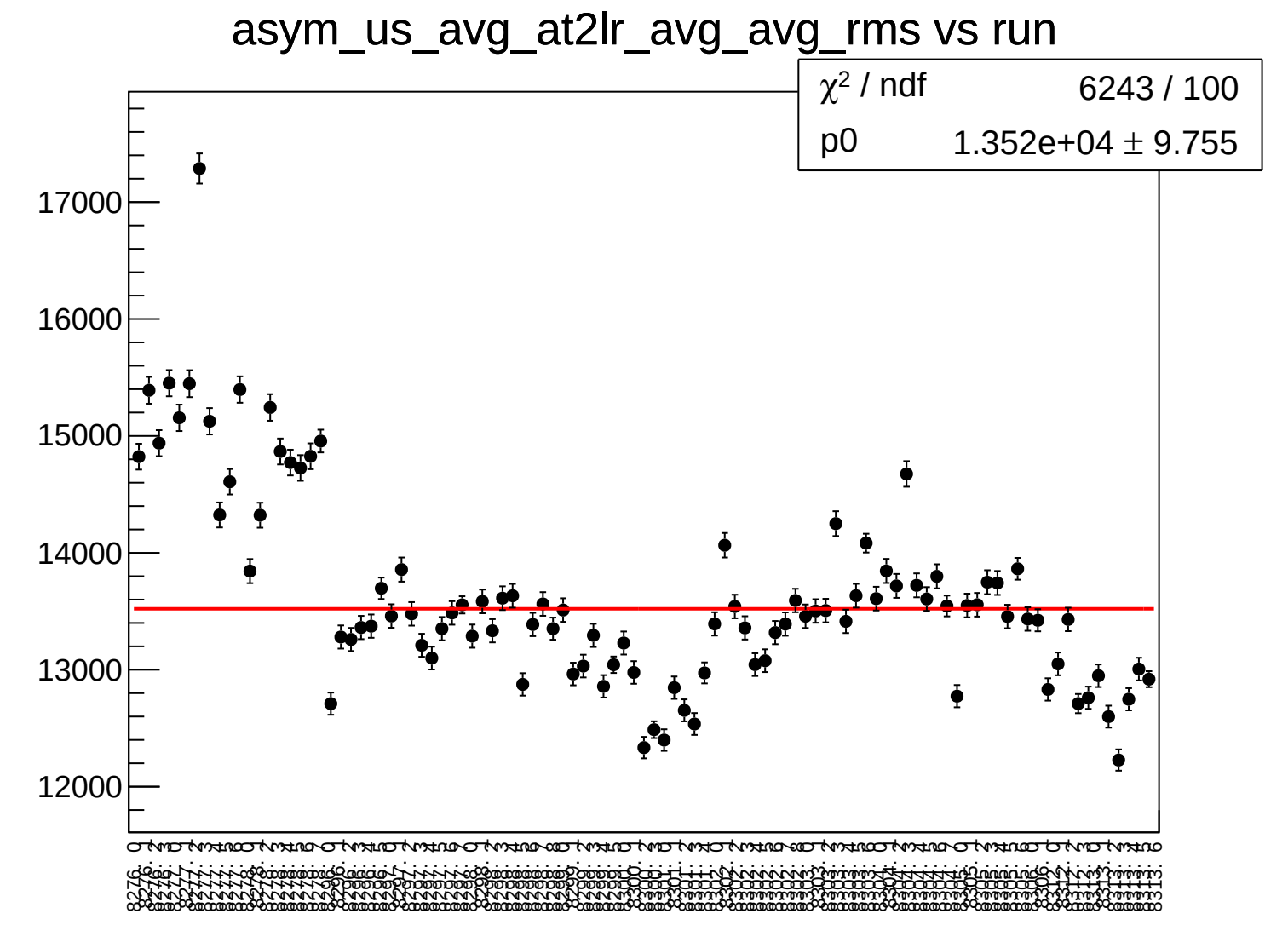

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
600
400
200
0
−200
−400
−600
χ² / ndf 114.4 / 100
p0 −1.825e+04 ± 1.363e+04
pull
Entries 101
Mean −1147
Std Dev 0
2
1
0
−1
−2
−3

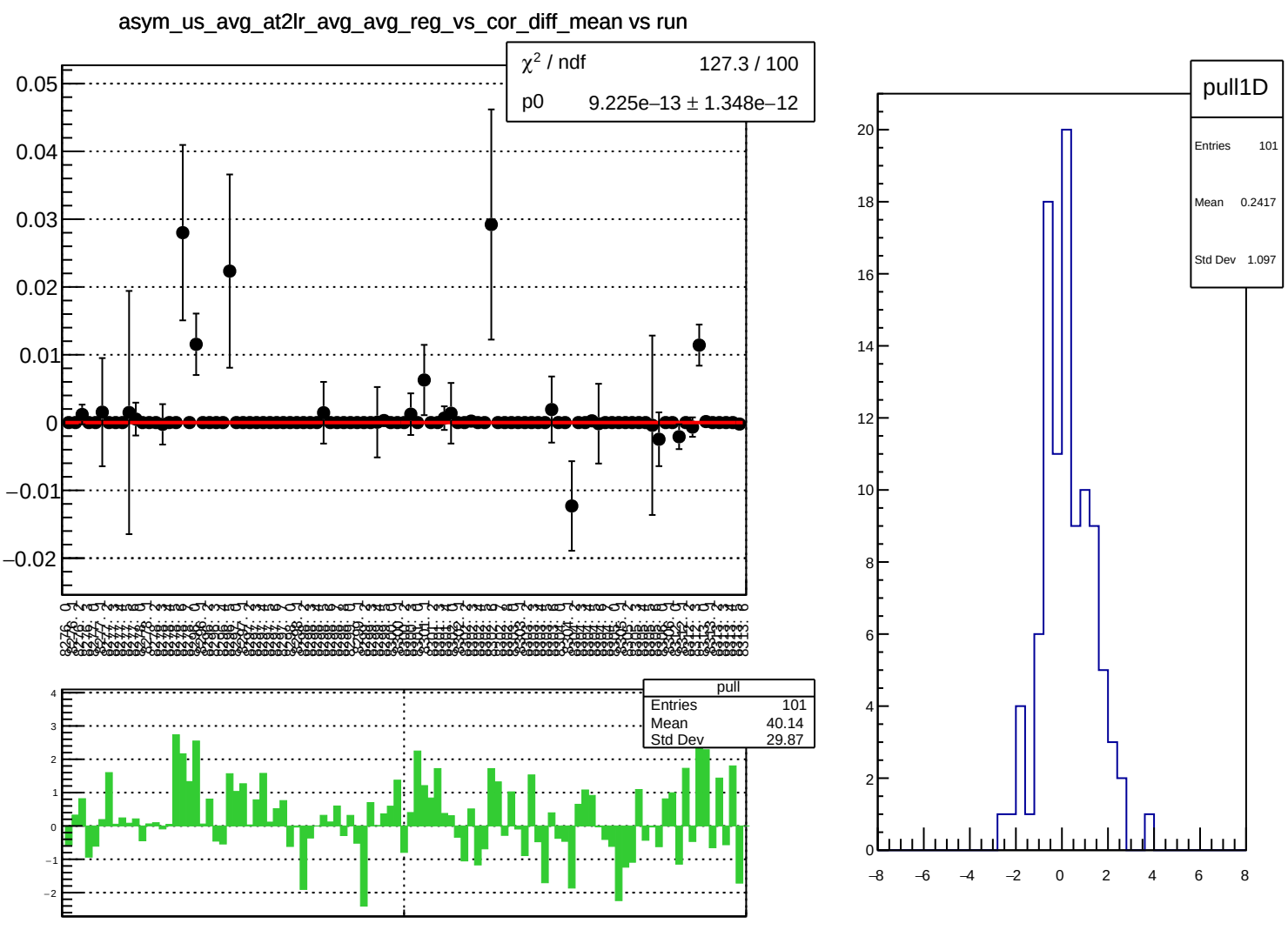

pull1D
Entries 101
Mean 0.005638
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

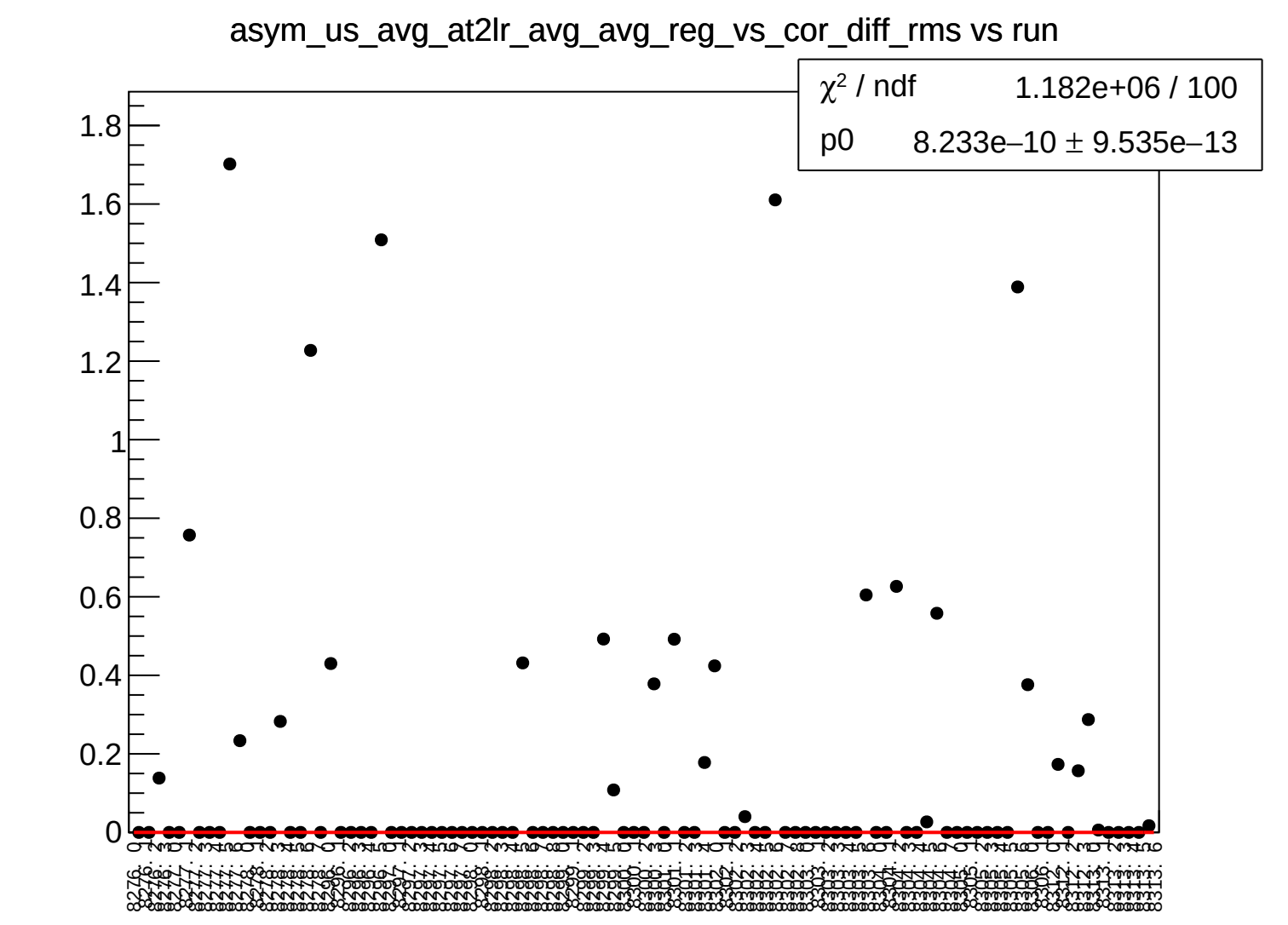

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 7667 / 100
p0 1.336e+04 ± 9.64
18000
17000
16000
15000
14000
13000
12000

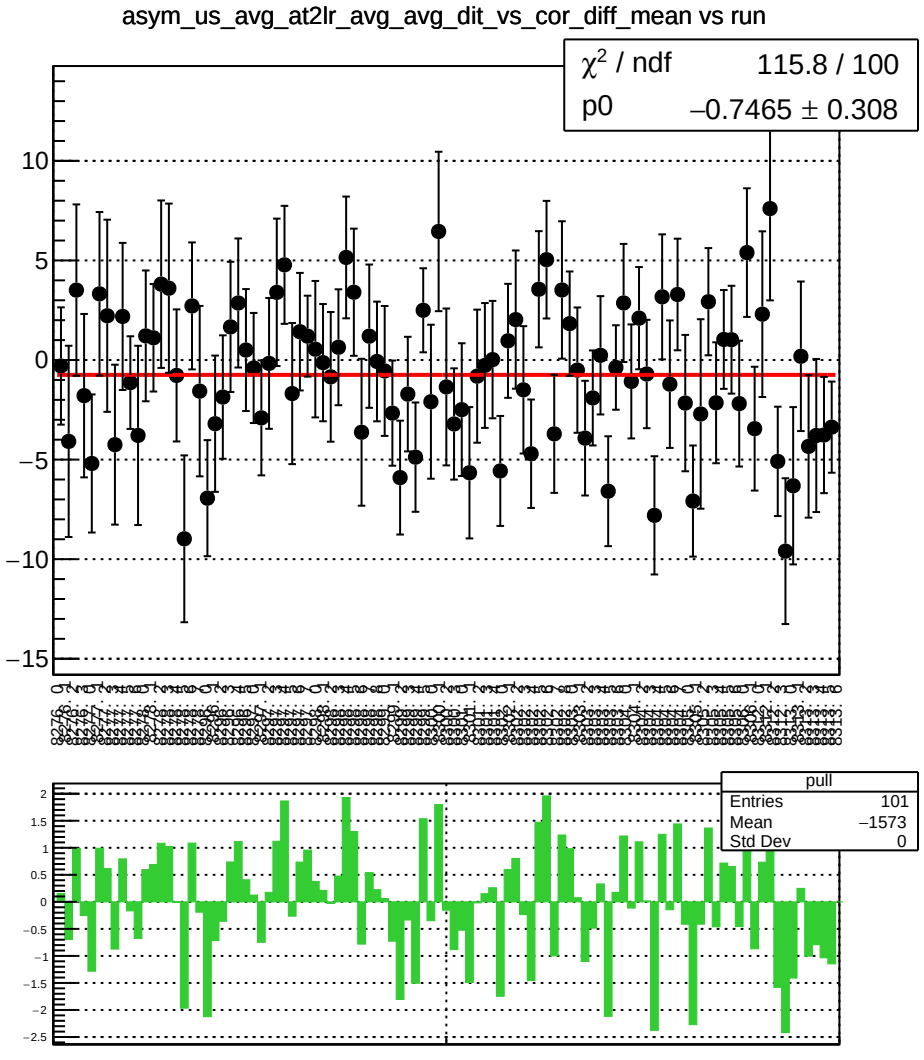

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 111.4 / 100
p0 2.384e+04 ± 1.38e+04
600
400
200
0
−200
−400
−600
pull
Entries 101
Mean −719.4
Std Dev 0
3
2
1
0
−1
−2

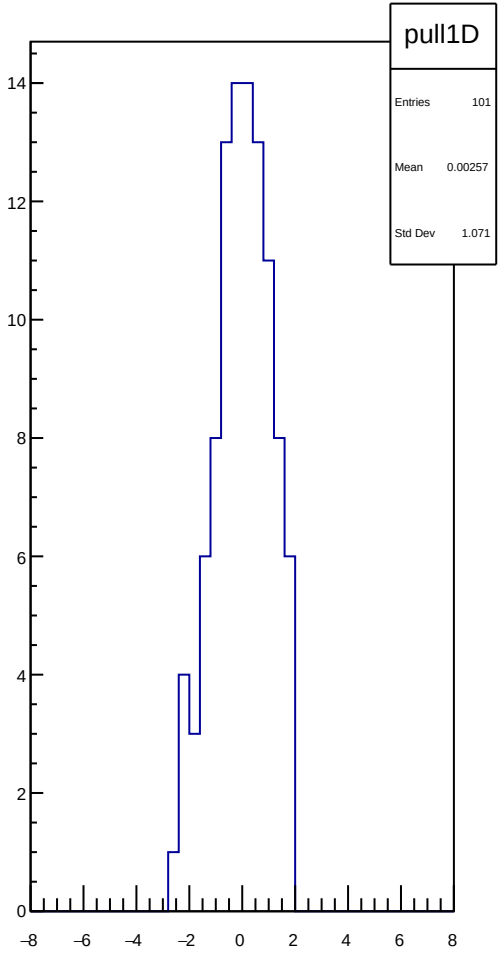

pull1D
Entries 101
Mean −0.008949
Std Dev 1.05
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

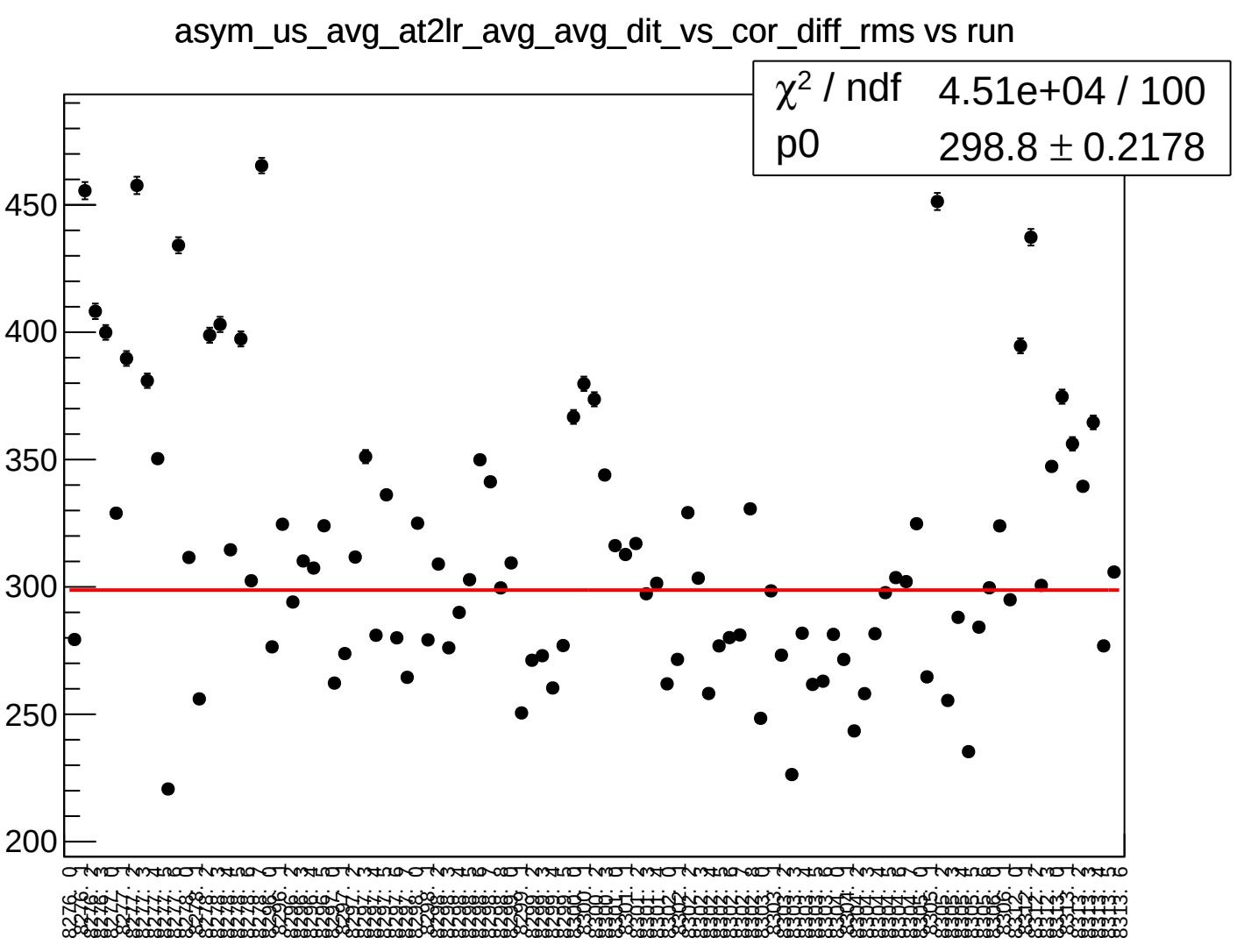

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 6243 / 100
p0 1.352e+04 ± 9.755
17000
16000
15000
14000
13000
12000

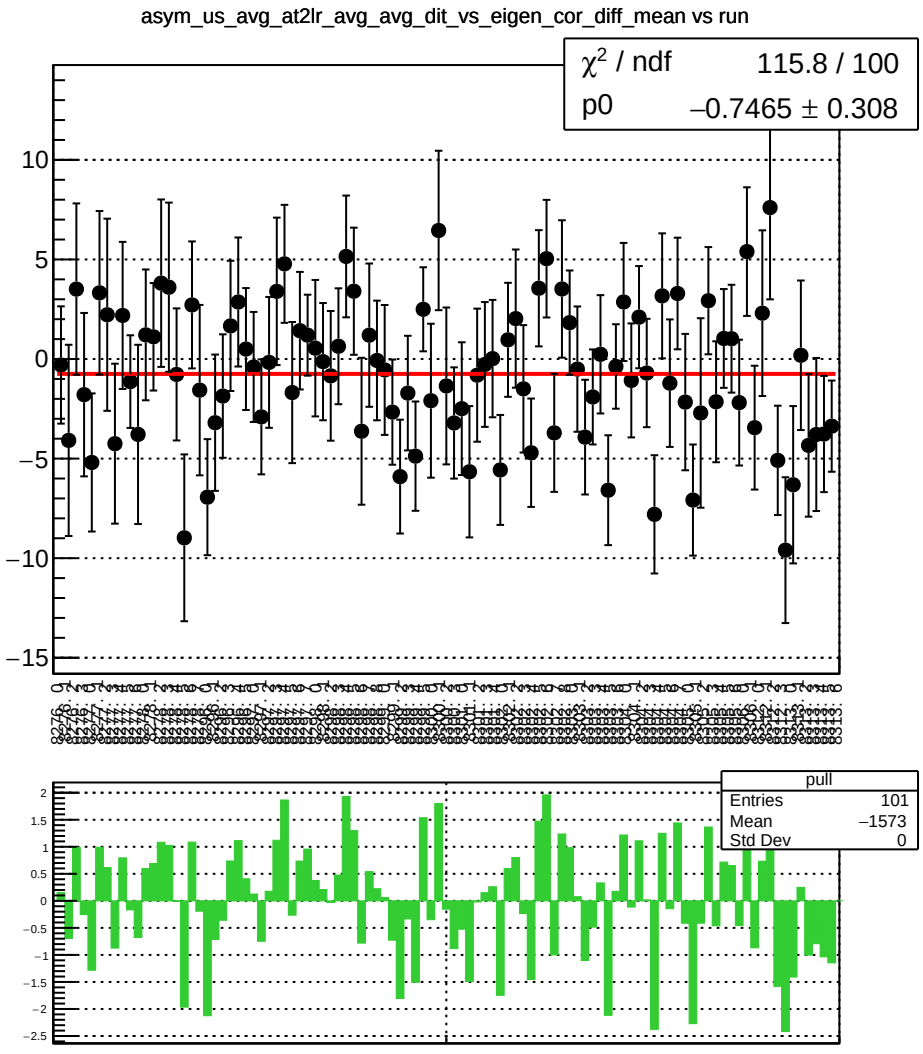

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 127.3 / 100
p0 9.225e−13 ± 1.348e−12
pull
Entries 101
Mean 40.14
Std Dev 29.87
pull1D
Entries 101
Mean 0.2417
Std Dev 1.097

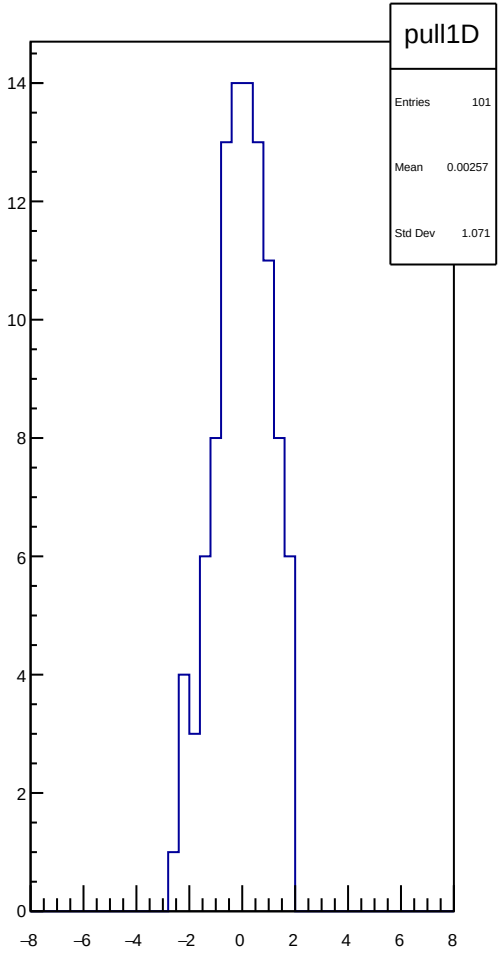

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.182e+06 / 100
p0 8.233e−10 ± 9.535e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

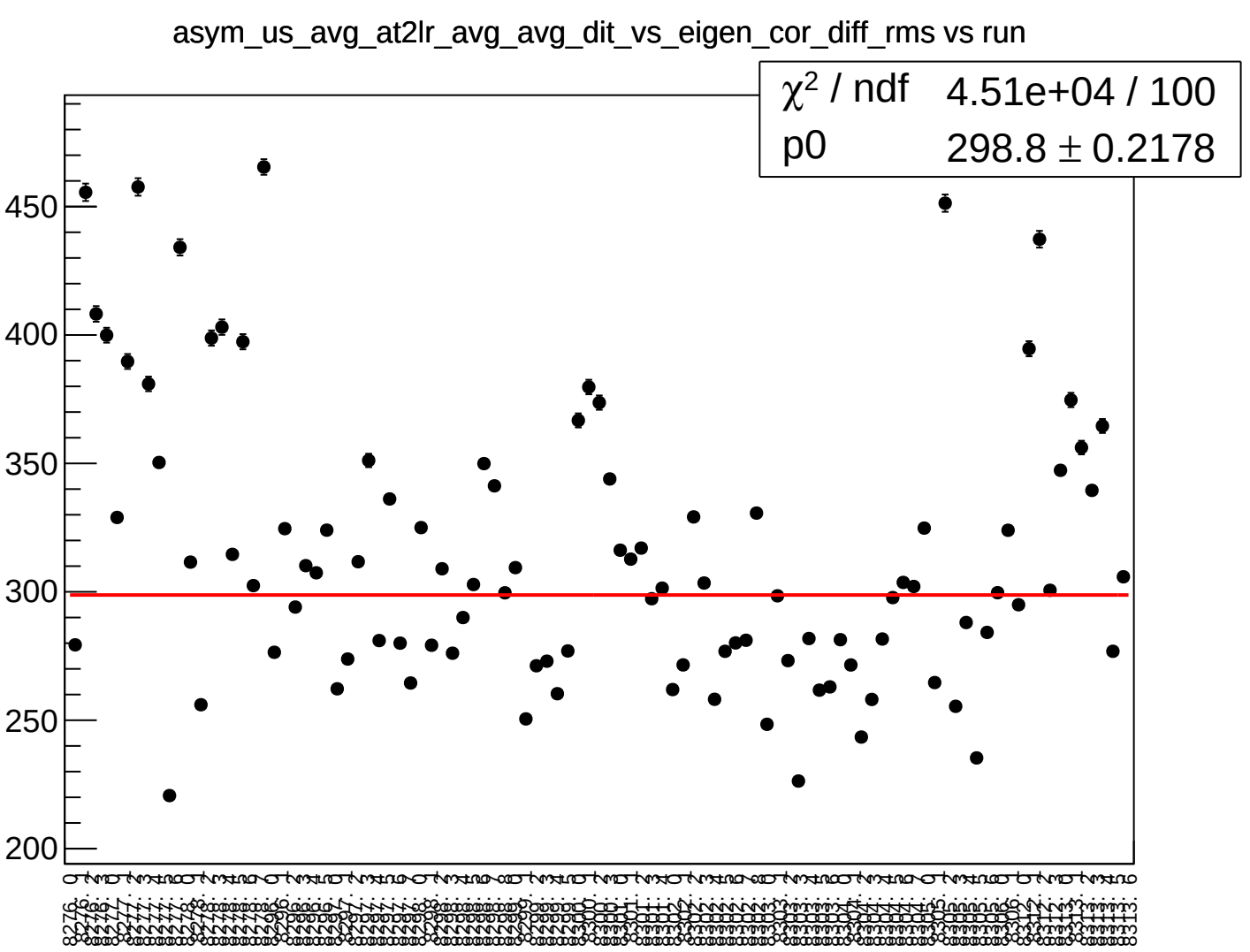

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 115.8 / 100
p0 −0.7465 ± 0.308
pull
Entries 101
Mean −1573
Std Dev 0

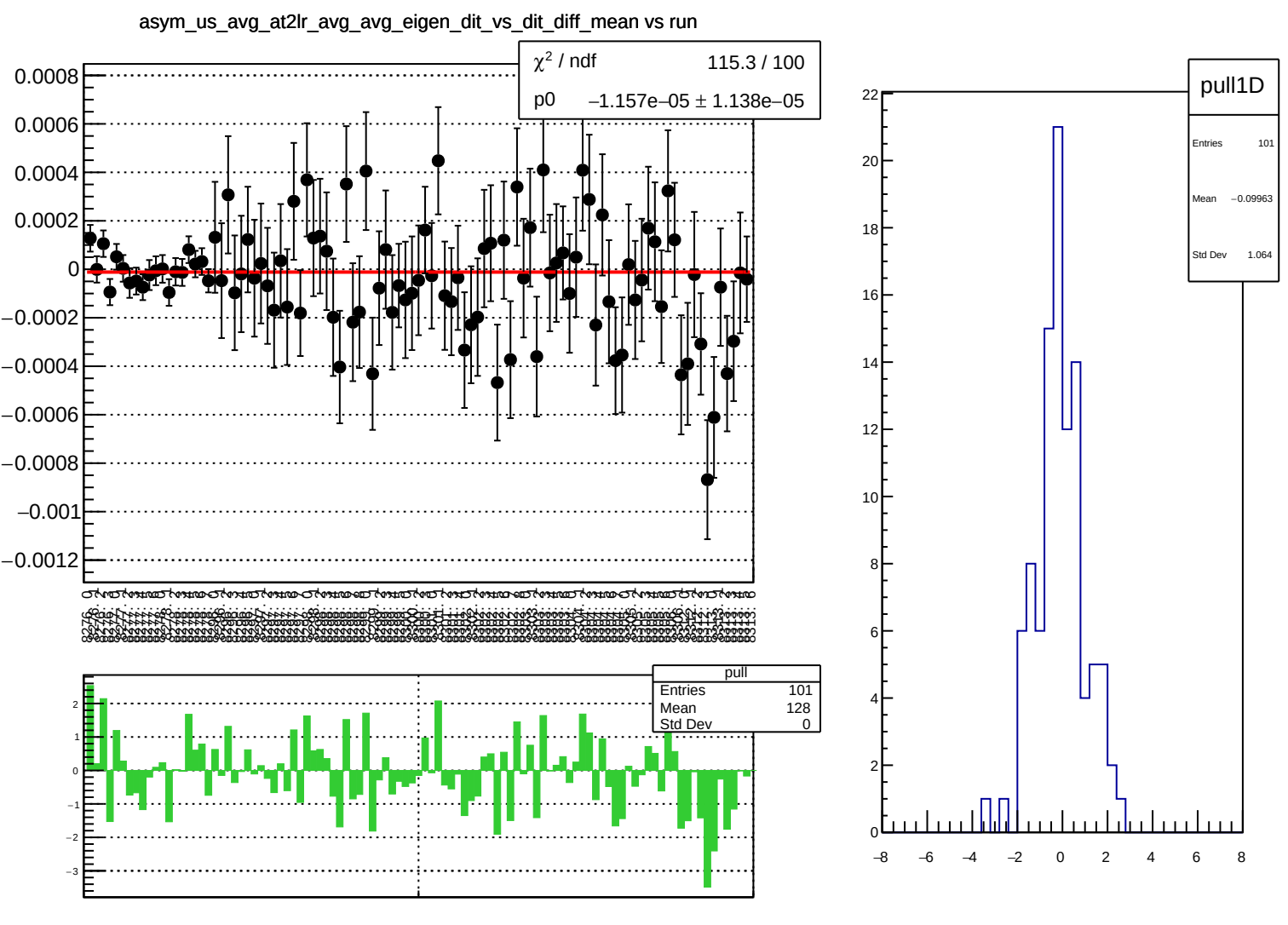

pull1D
Entries 101
Mean 0.00257
Std Dev 1.071

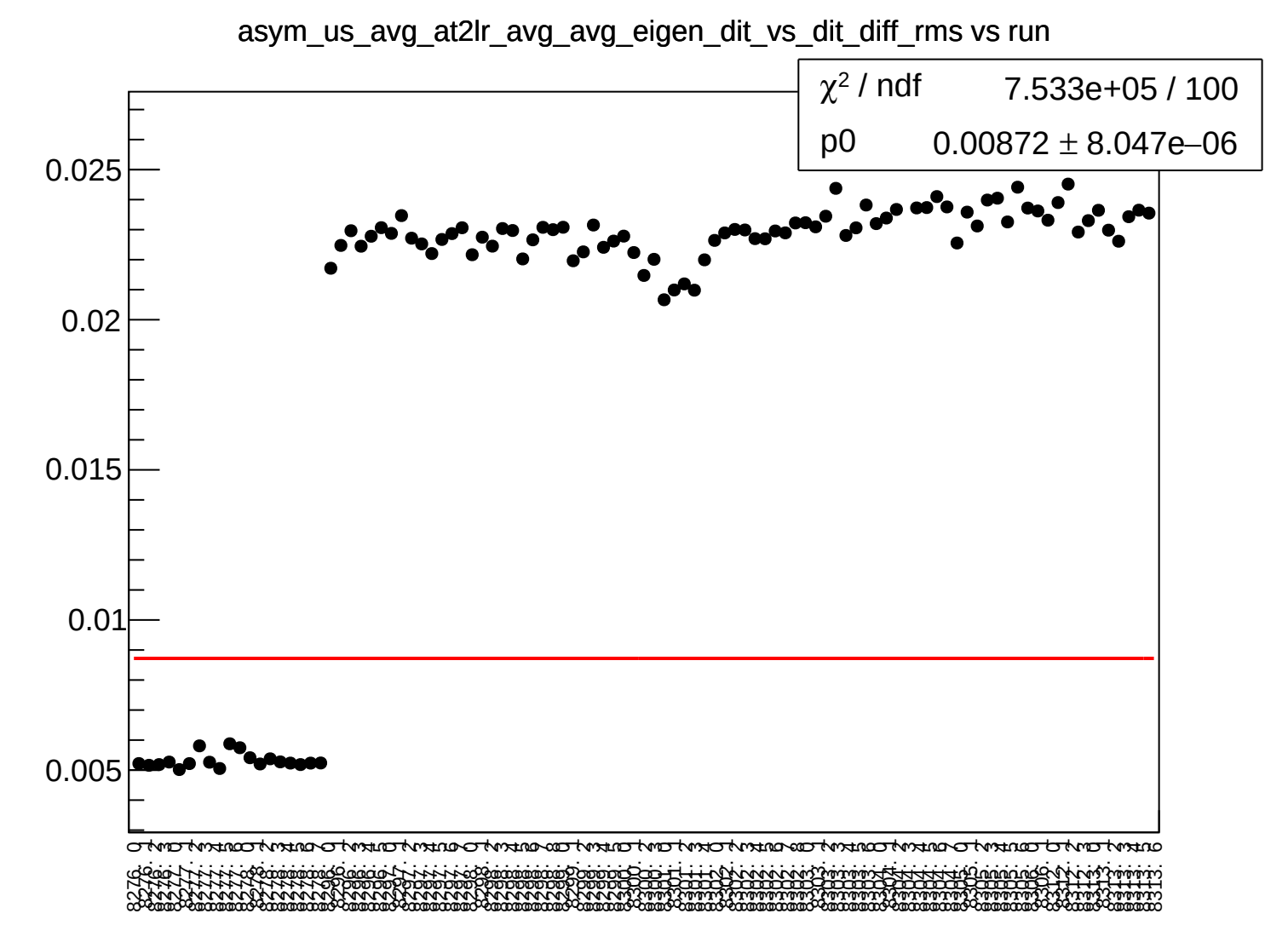

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.51e+04 / 100
p0 298.8 ± 0.2178
450
400
350
300
250
200

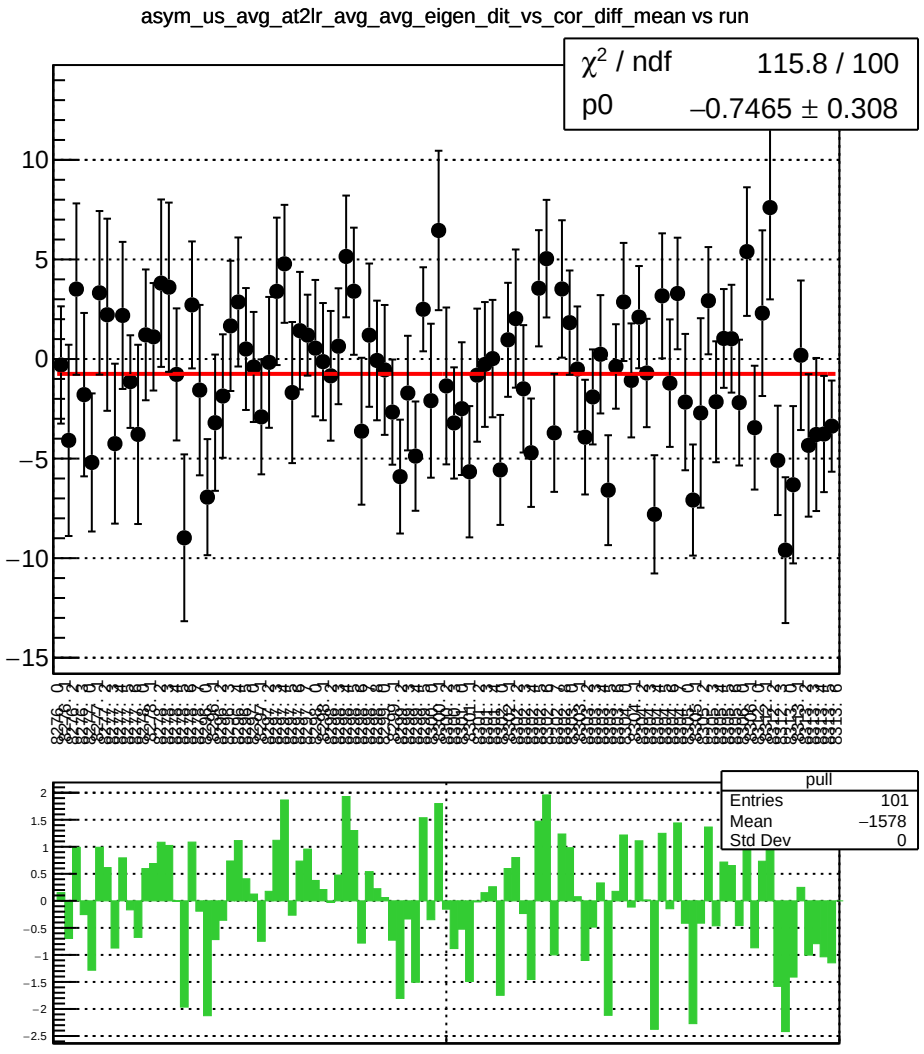

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 115.8 / 100
p0 −0.7465 ± 0.308
pull
Entries 101
Mean −1573
Std Dev 0

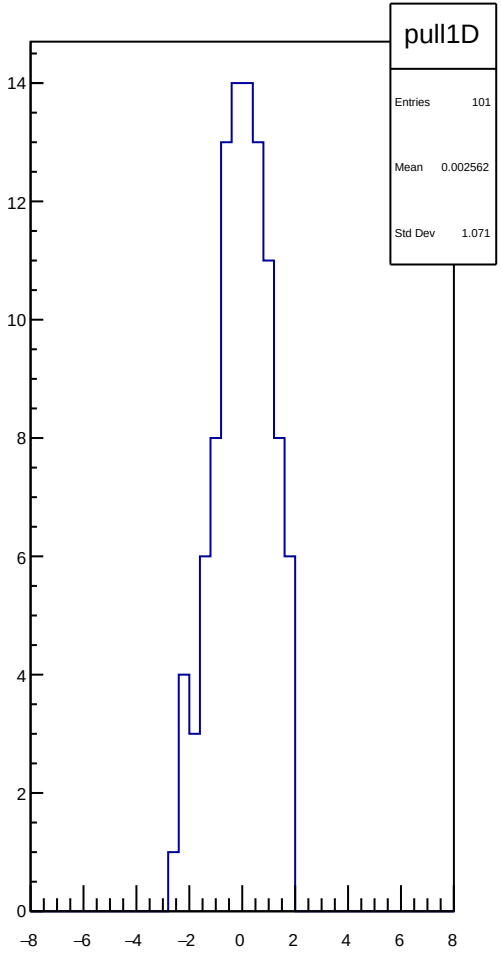

pull1D
Entries 101
Mean 0.00257
Std Dev 1.071

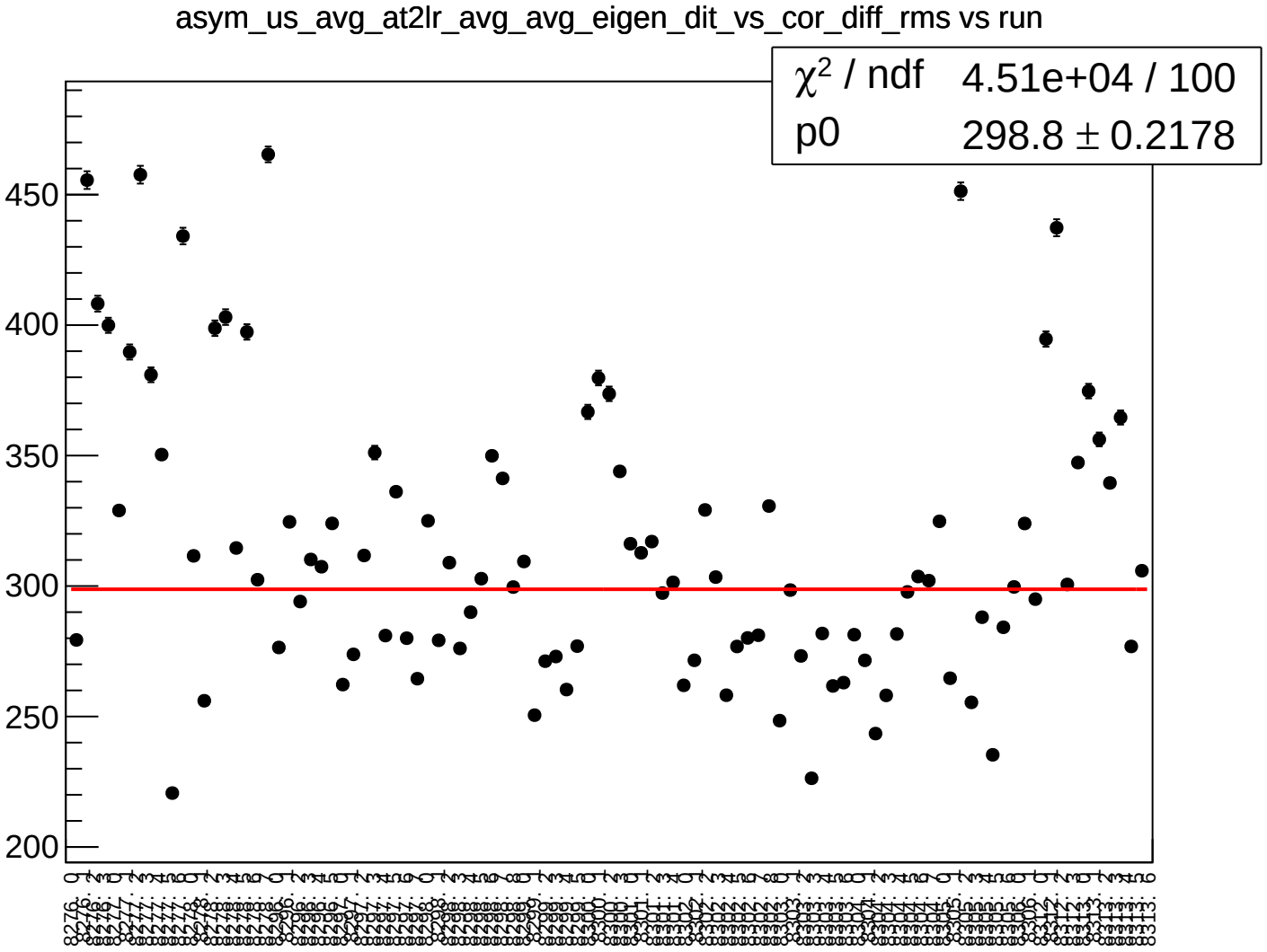

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.51e+04 / 100
p0 298.8 ± 0.2178
450
400
350
300
250
200

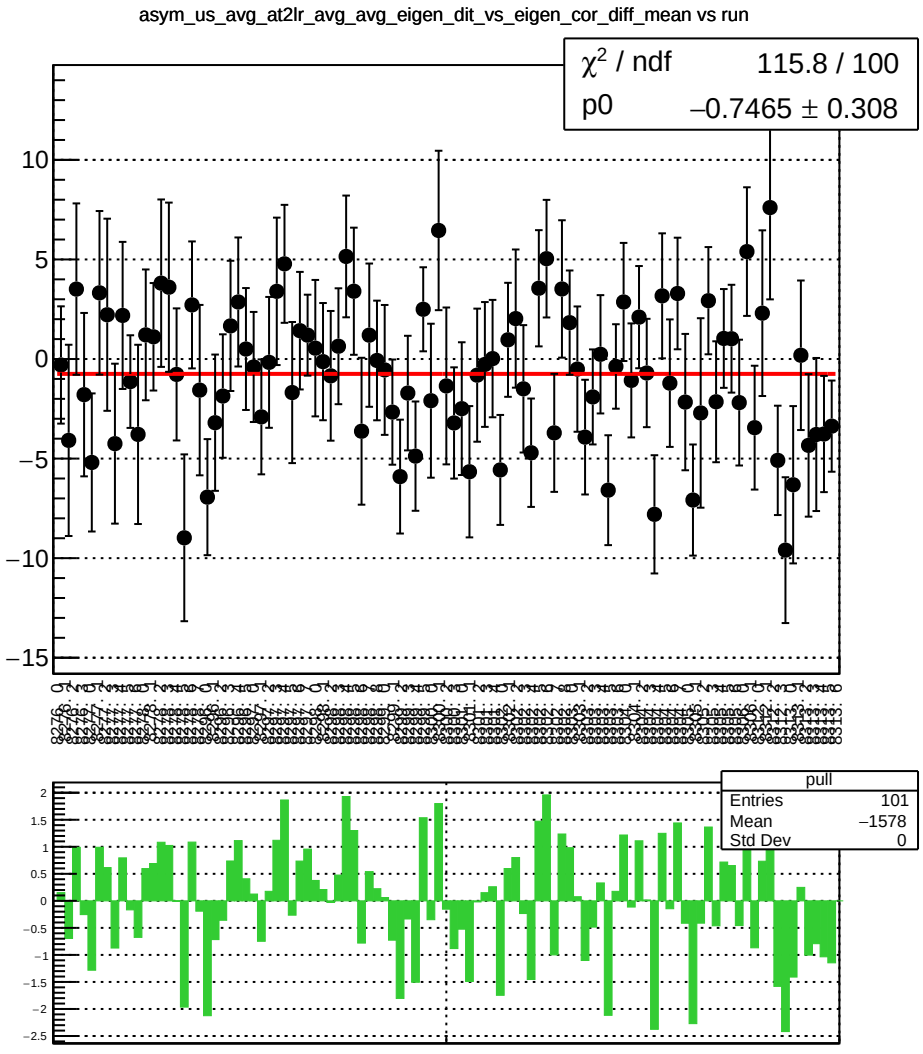

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 115.3 / 100
p0 −1.157e−05 ± 1.138e−05
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
pull
Entries 101
Mean 128
Std Dev 0
pull1D
Entries 101
Mean −0.09963
Std Dev 1.064

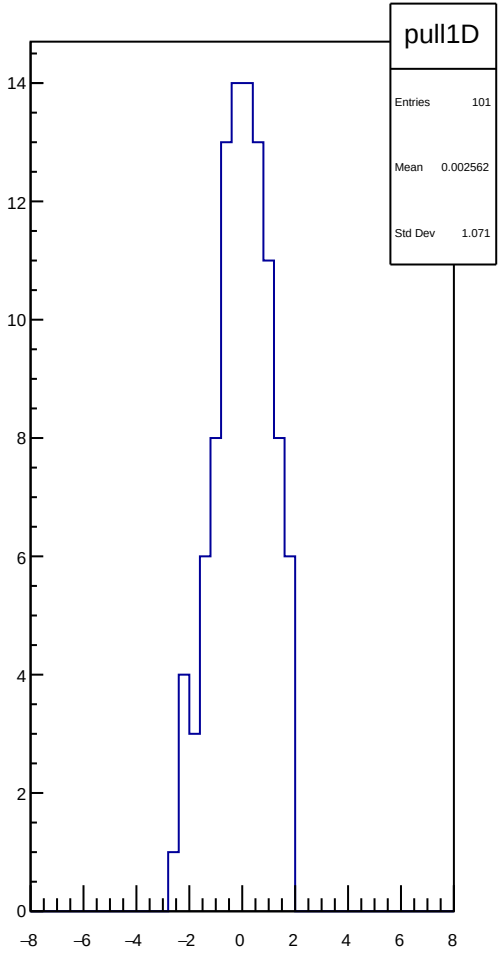

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.533e+05 / 100
p0 0.00872 ± 8.047e−06
0.025
0.02
0.015
0.01
0.005

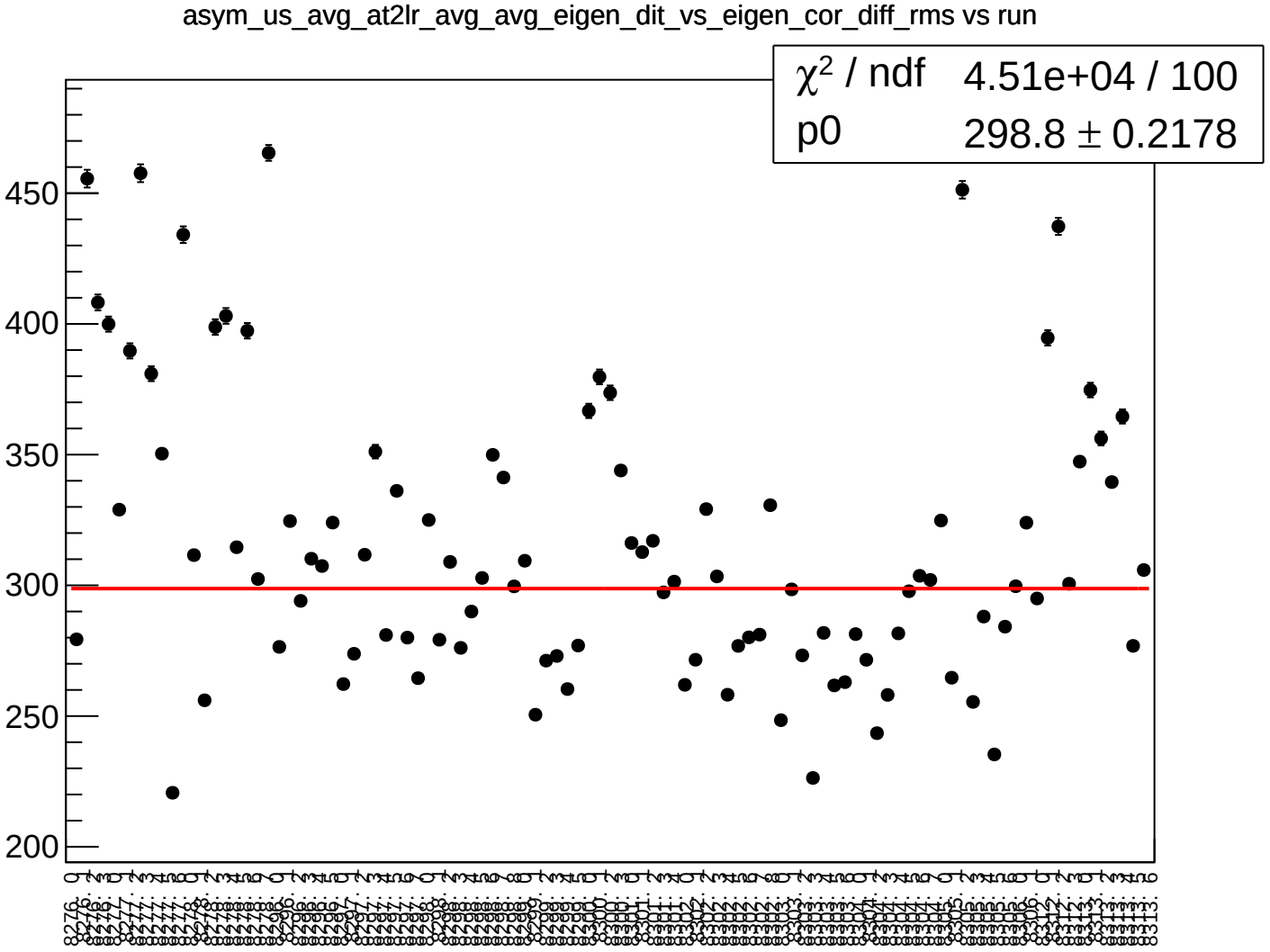

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 115.8 / 100
p0 −0.7465 ± 0.308
pull
Entries 101
Mean −1578
Std Dev 0

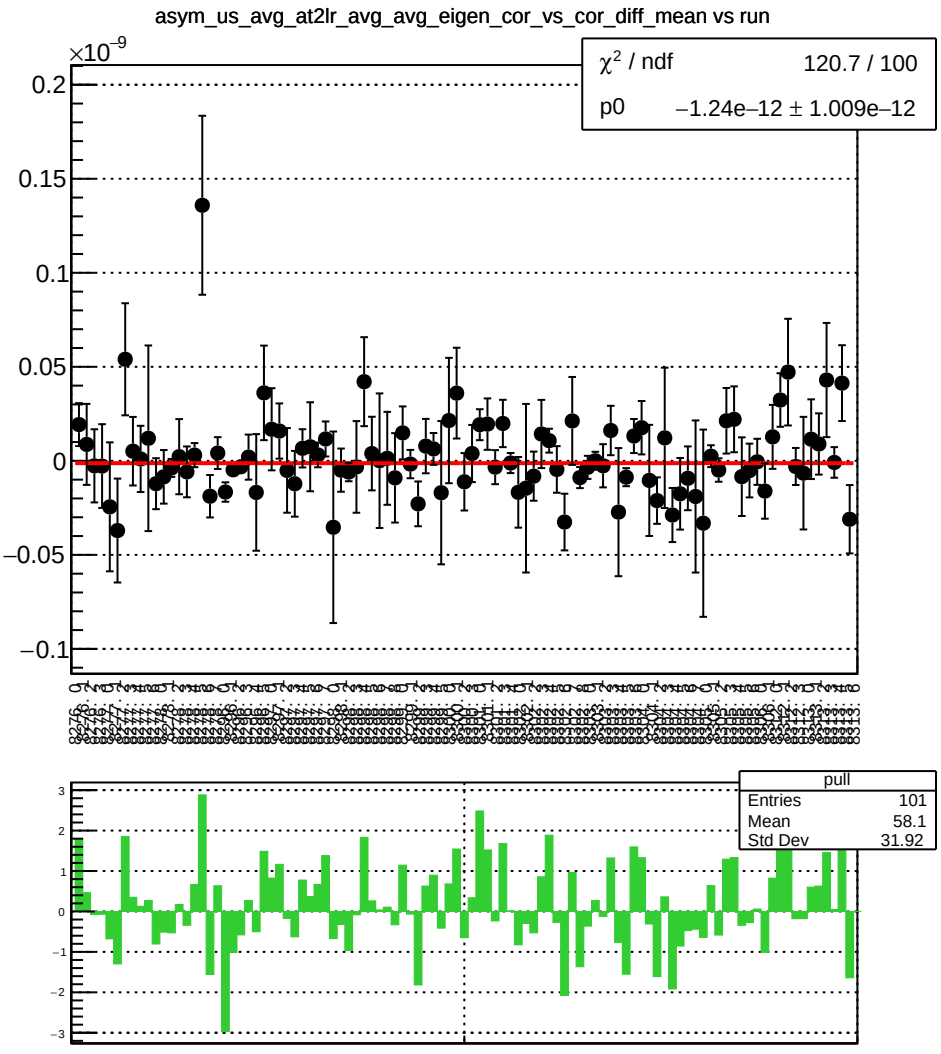

pull1D
Entries 101
Mean 0.002562
Std Dev 1.071

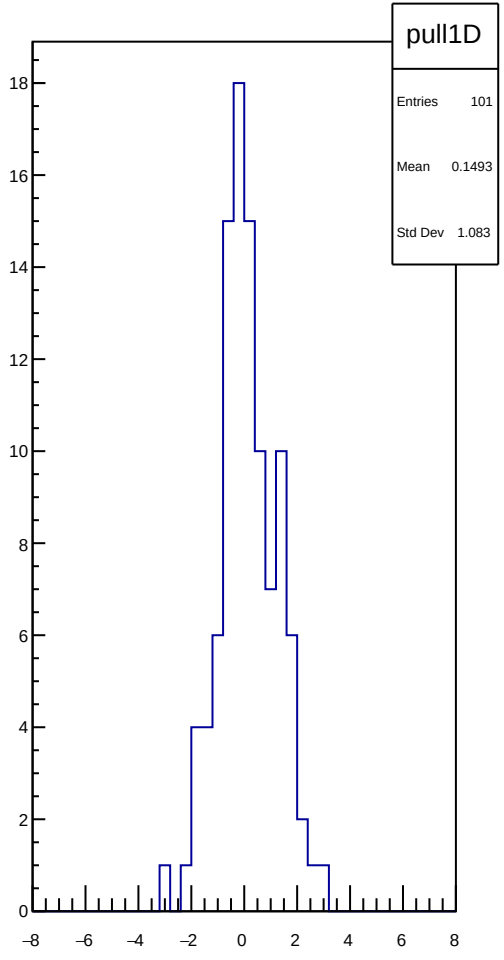

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.51e+04 / 100
p0 298.8 ± 0.2178
450
400
350
300
250
200

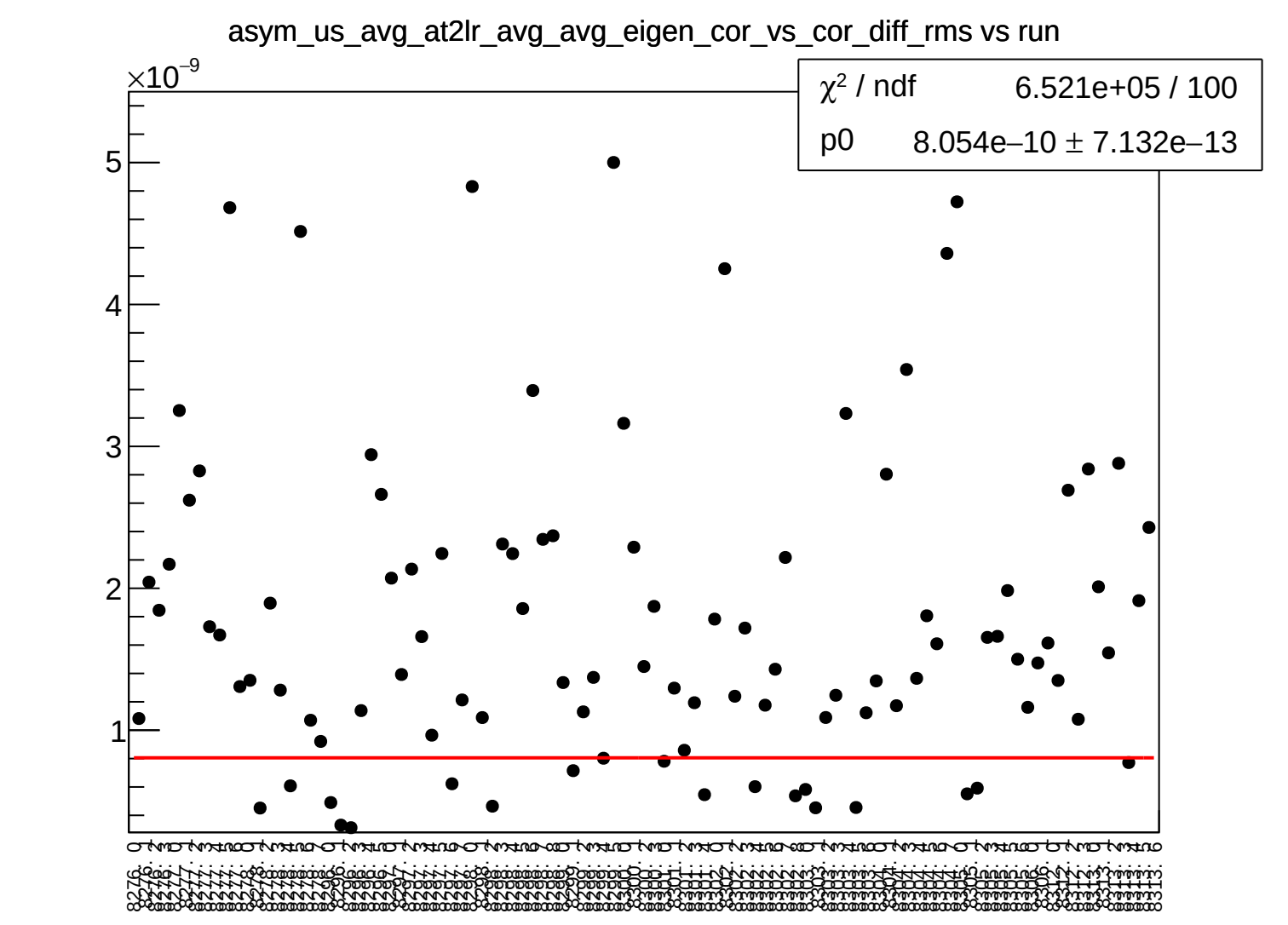

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 115.8 / 100
p0 −0.7465 ± 0.308
pull
Entries 101
Mean −1578
Std Dev 0

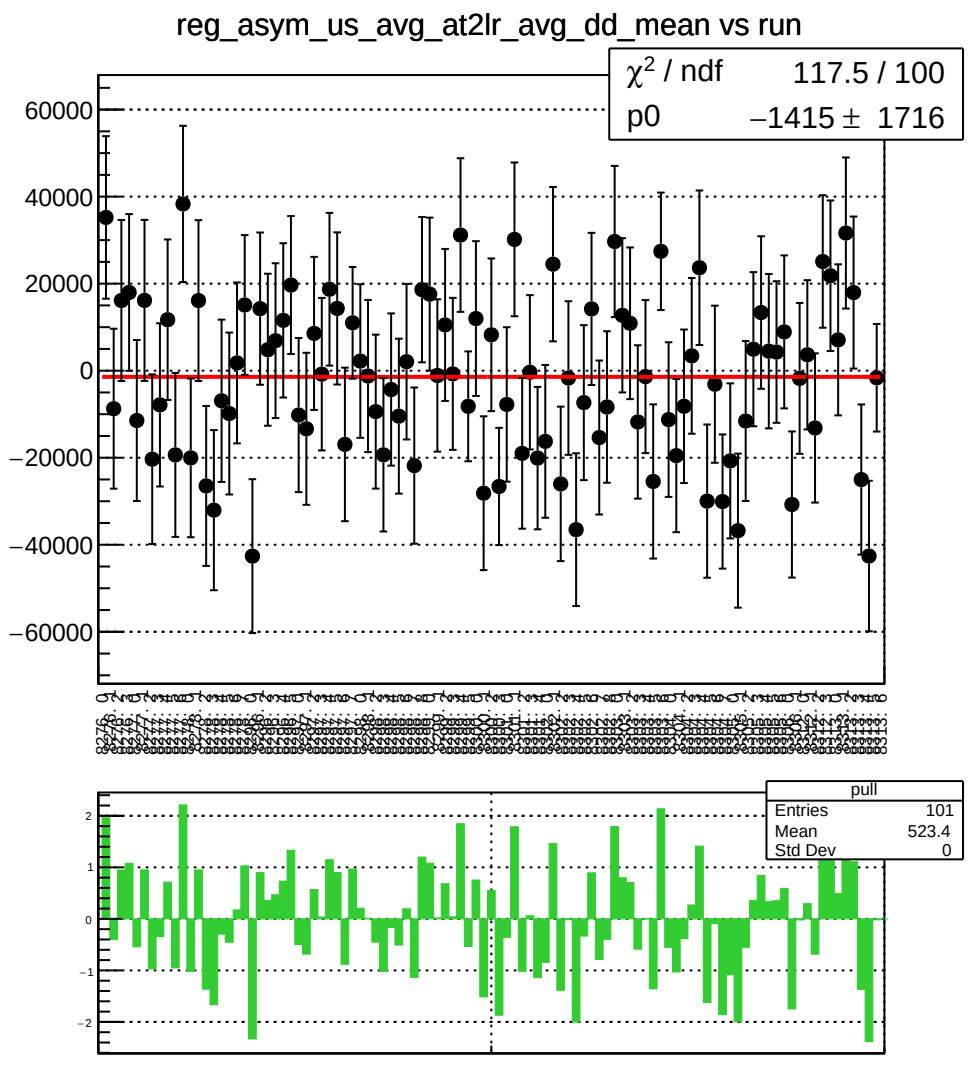

pull1D
Entries 101
Mean 0.002562
Std Dev 1.071

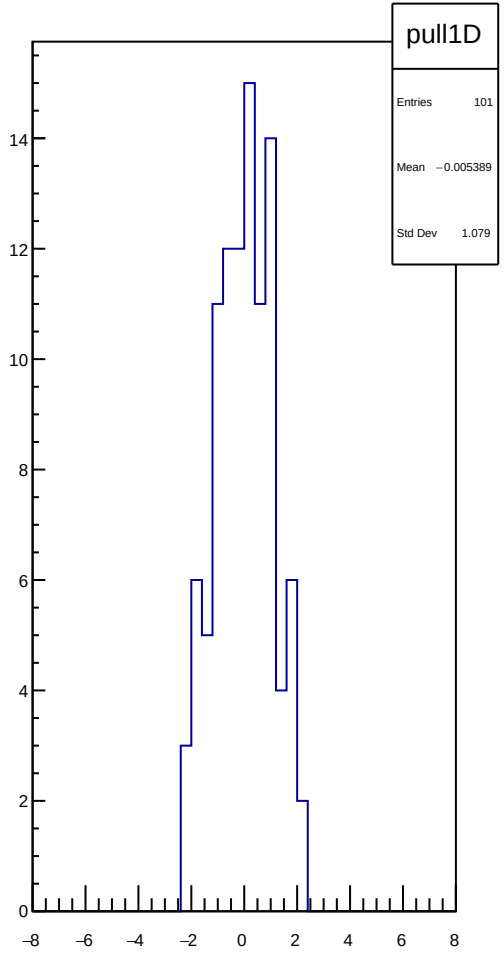

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.51e+04 / 100
p0 298.8 ± 0.2178
450
400
350
300
250
200

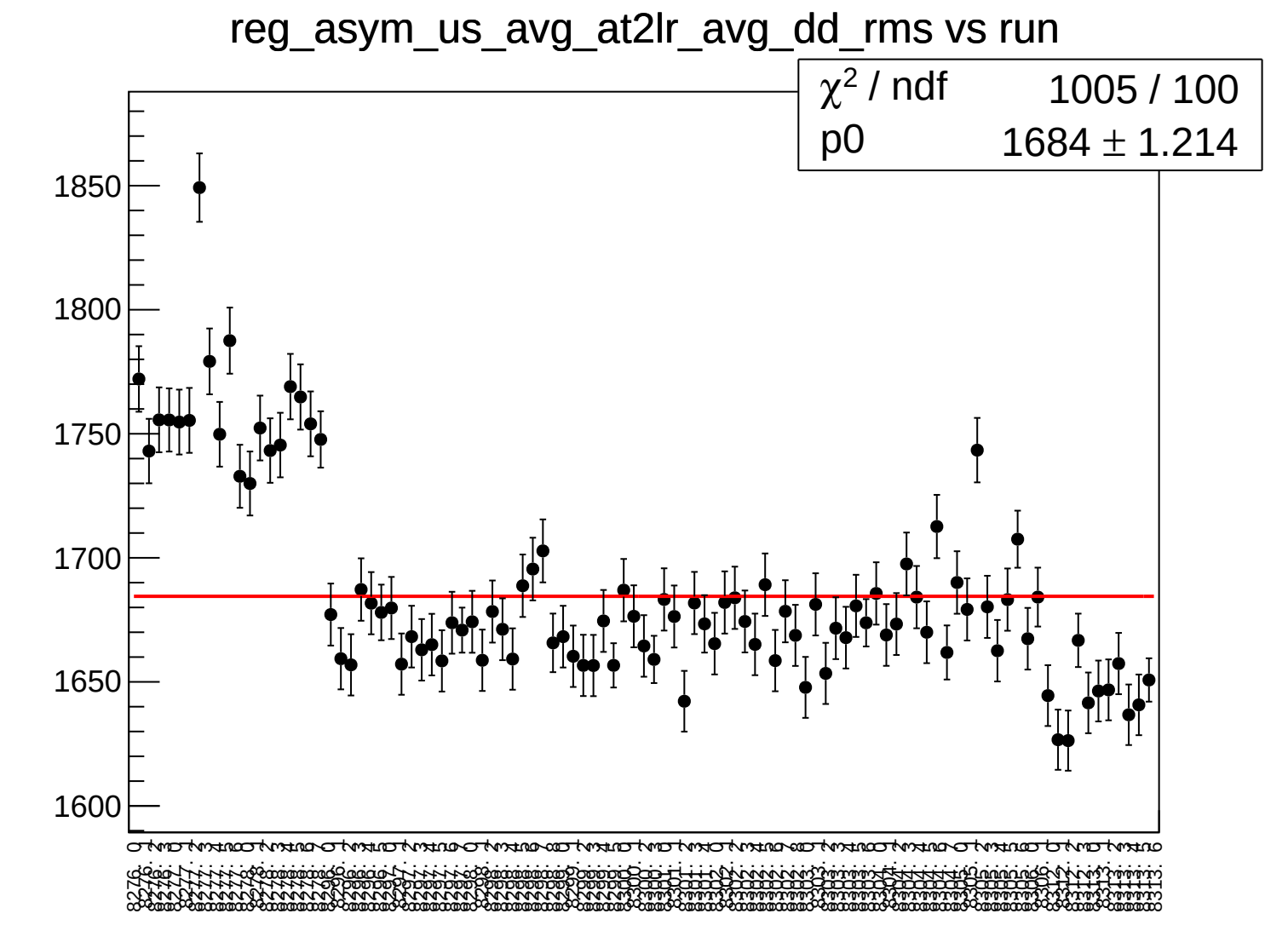

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 120.7 / 100
p0 −1.24e−12 ± 1.009e−12
0.2
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 101
Mean 58.1
Std Dev 31.92
3
2
1
0
−1
−2
−3

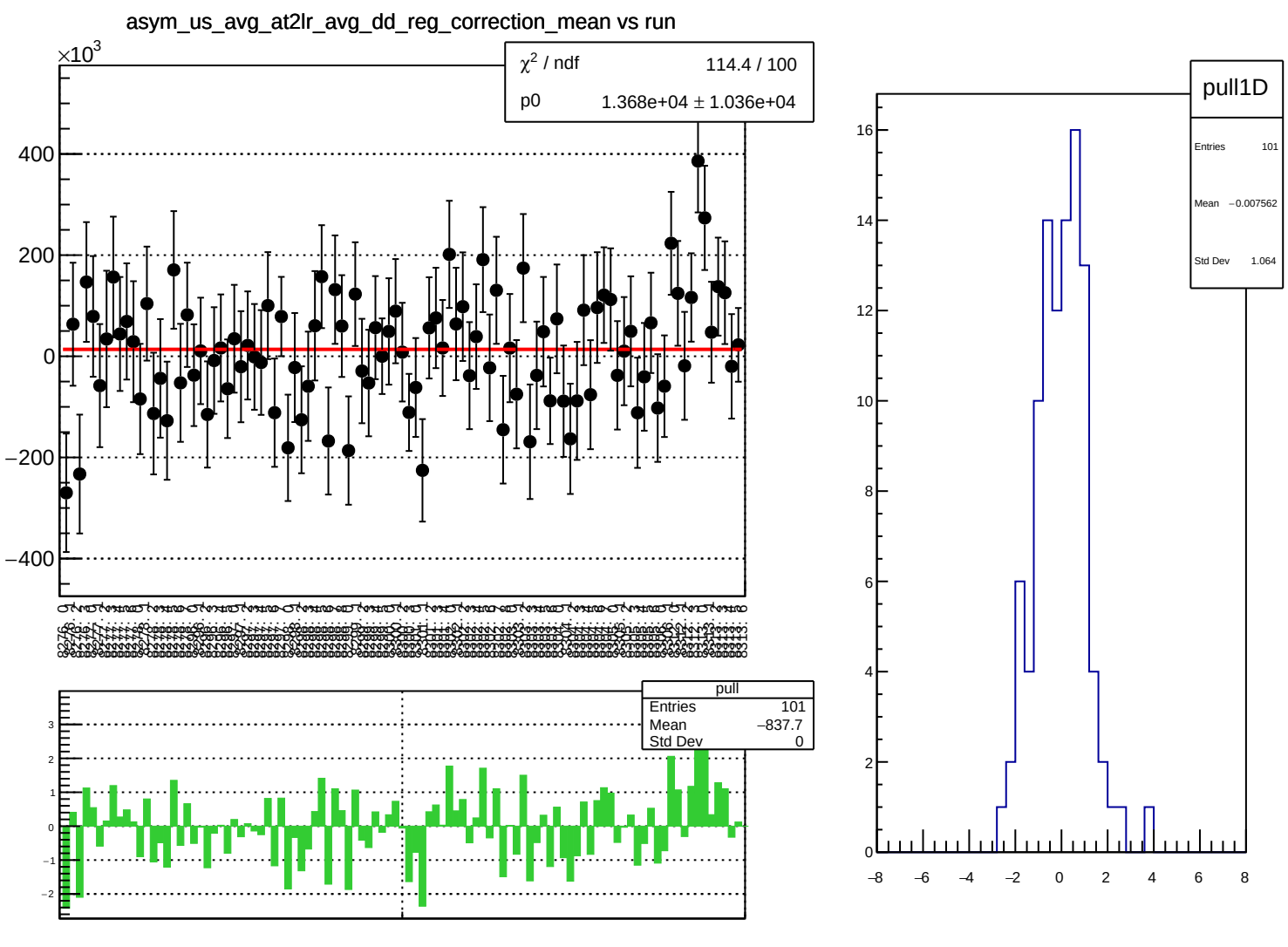

pull1D
Entries 101
Mean 0.1493
Std Dev 1.083
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

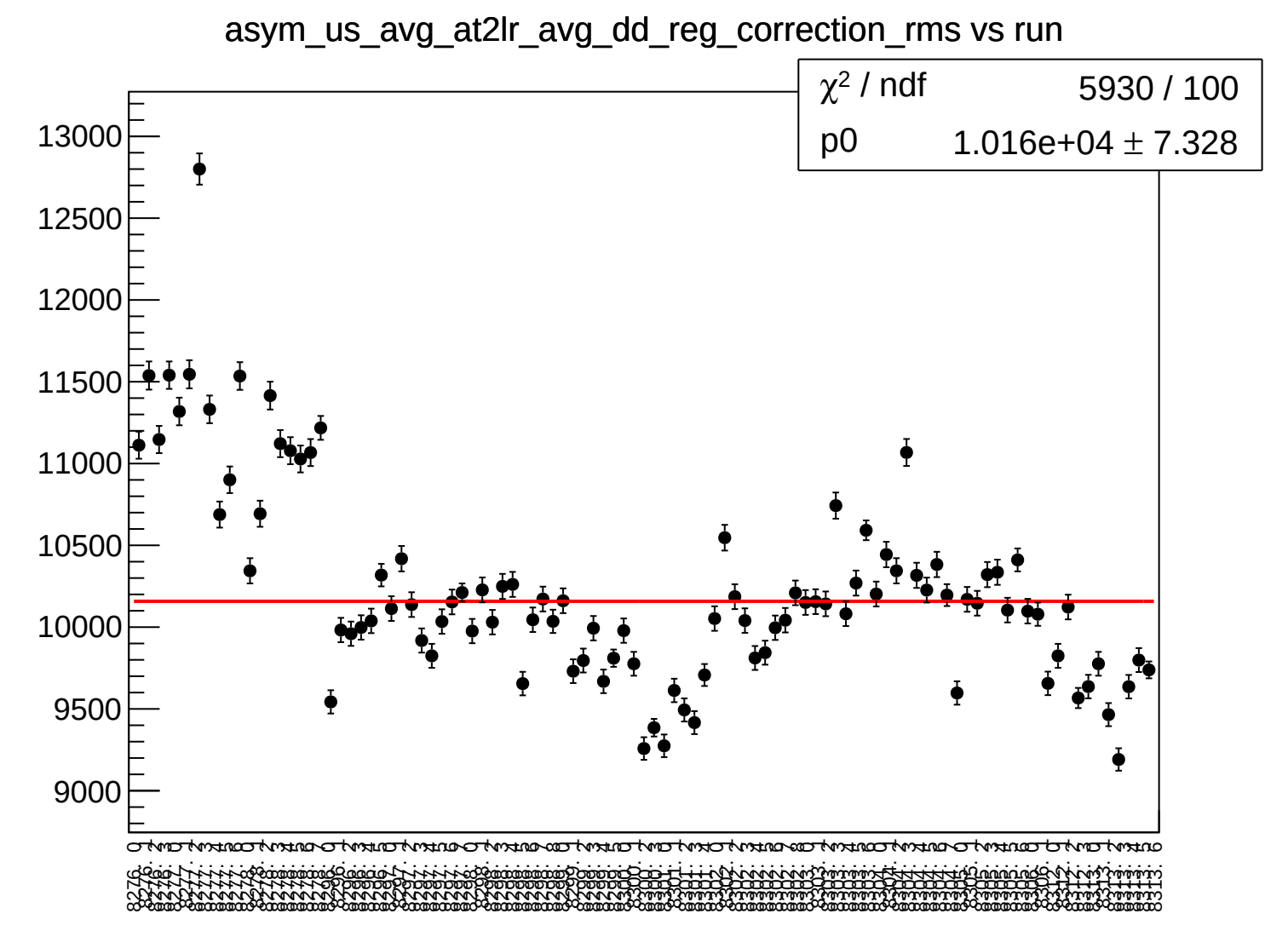

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.521e+05 / 100
p0 8.054e−10 ± 7.132e−13
5
4
3
2
1

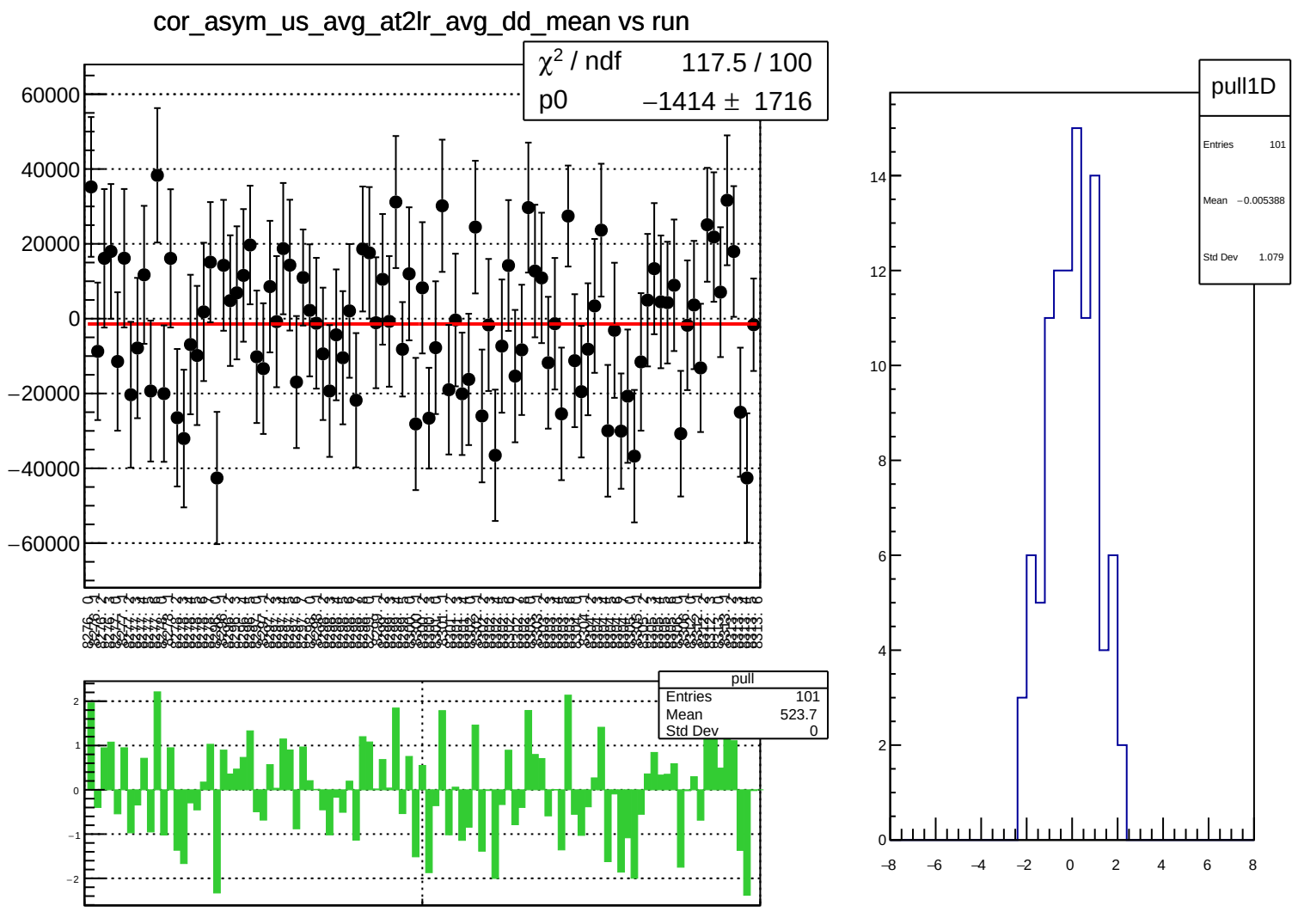

reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 117.5 / 100
p0 −1415 ± 1716
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean 523.4
Std Dev 0
2
1
0
−1
−2

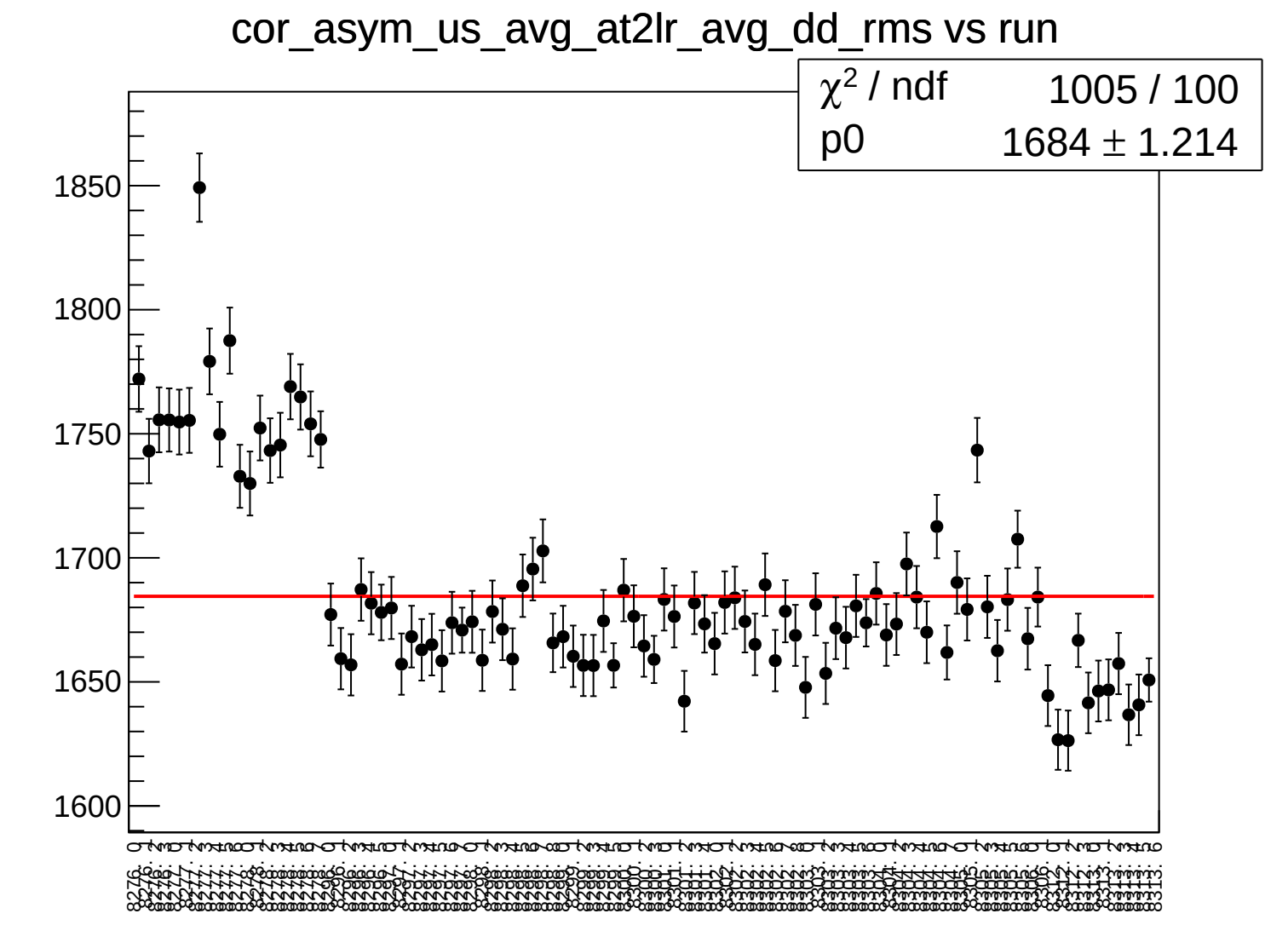

pull1D
Entries 101
Mean −0.005389
Std Dev 1.079
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

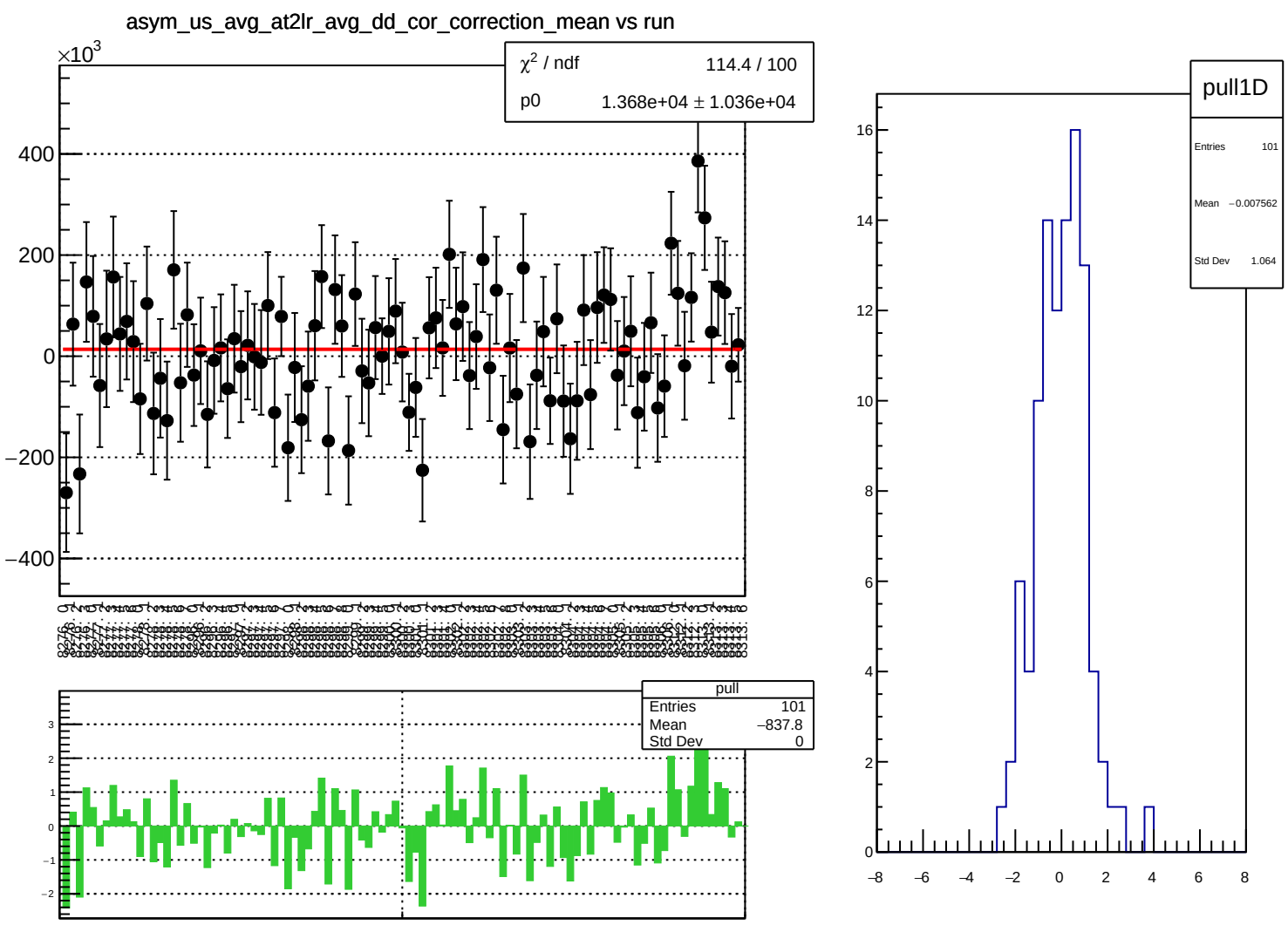

reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ^2 / ndf 1005 / 100
p0 1684 ± 1.214
1850
1800
1750
1700
1650
1600

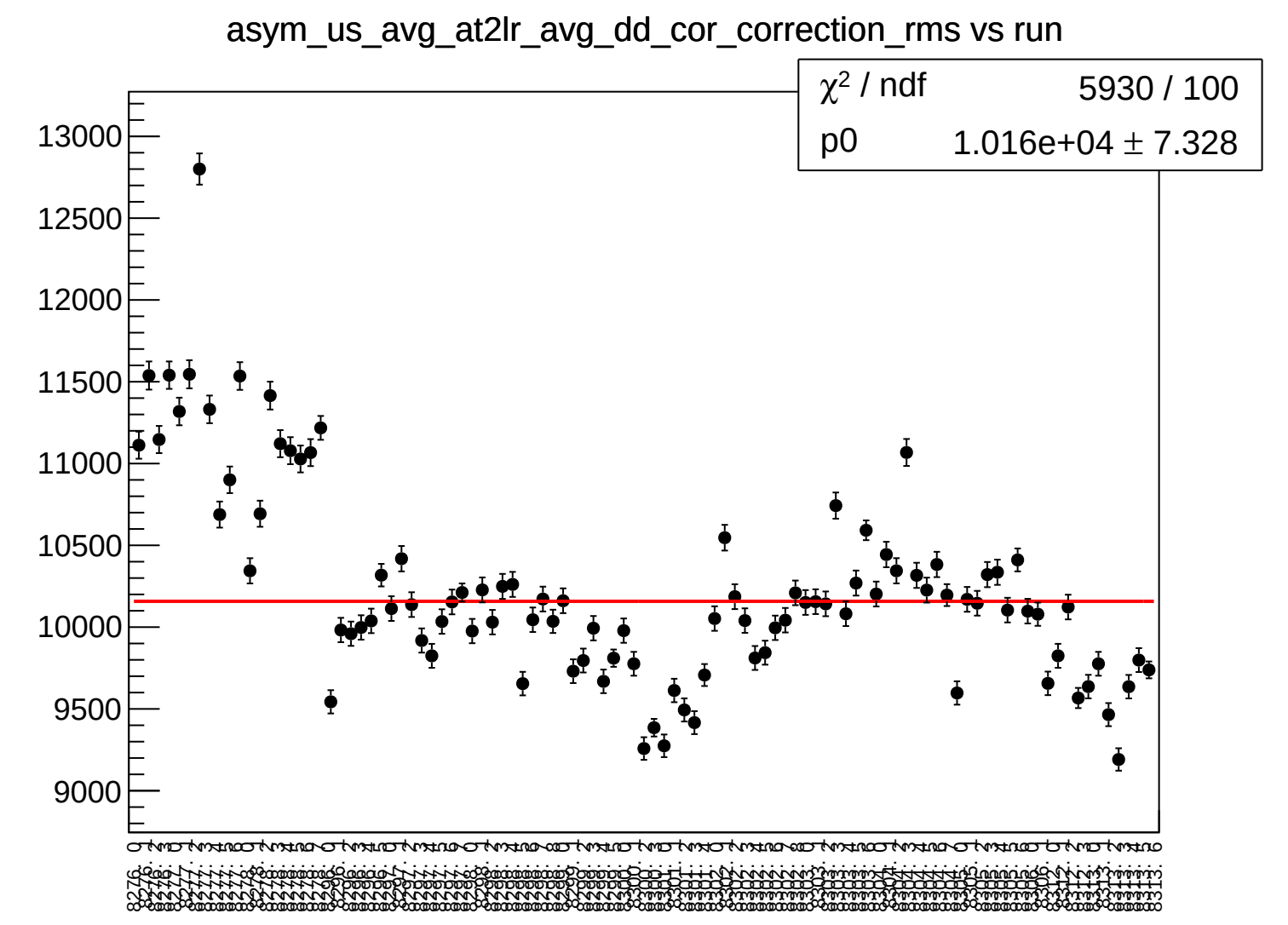

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 114.4 / 100
p0 1.368e+04 ± 1.036e+04
400
200
0
−200
−400
pull
Entries 101
Mean −837.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.007562
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

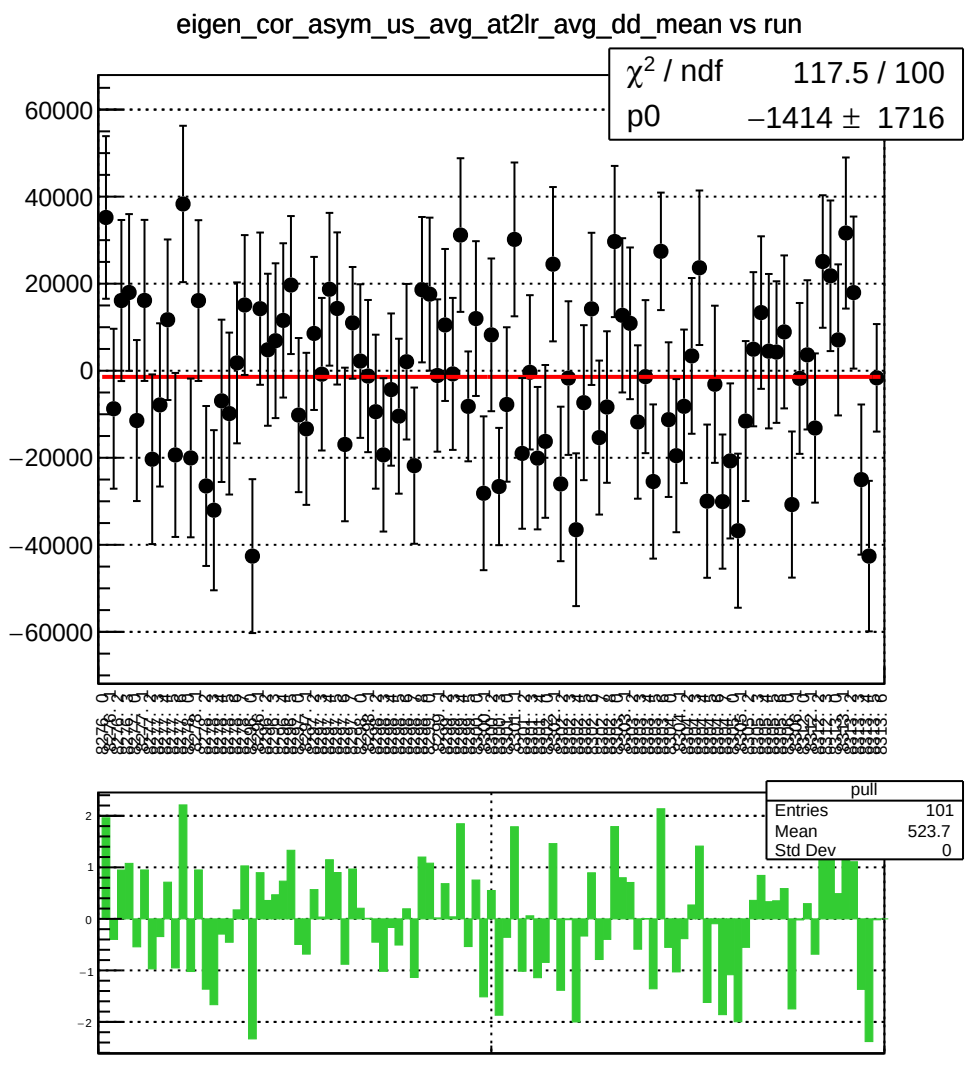

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 5930 / 100
p0 1.016e+04 ± 7.328
13000
12500
12000
11500
11000
10500
10000
9500
9000

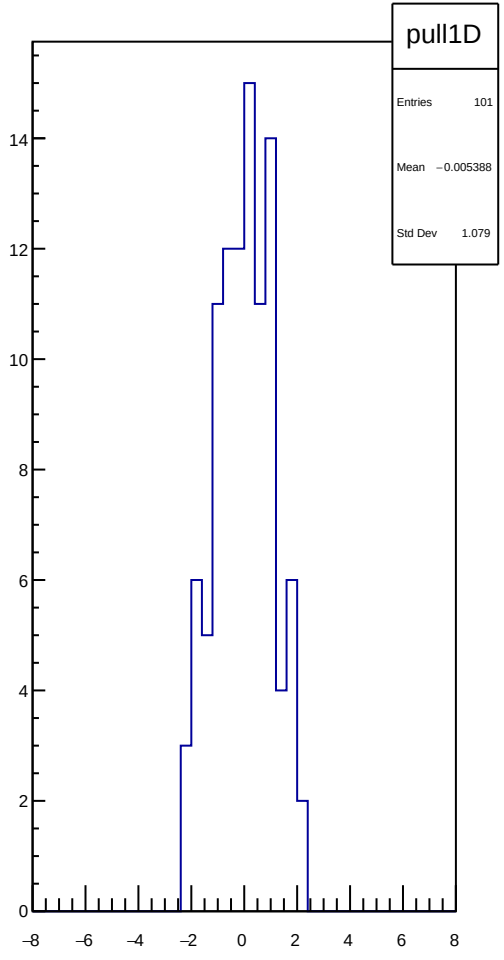

cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 117.5 / 100
p0 −1414 ± 1716
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean 523.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.005388
Std Dev 1.079
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

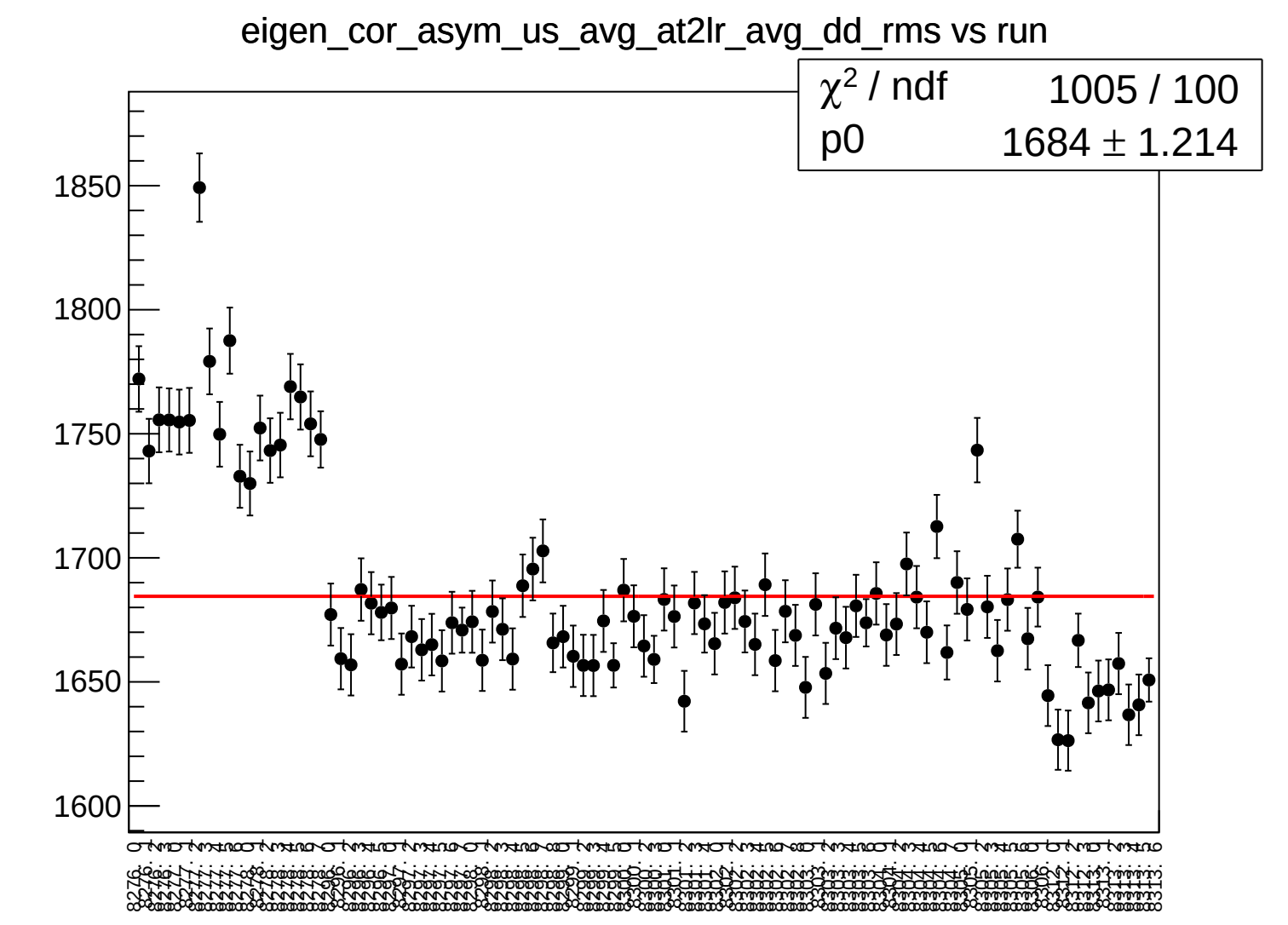

cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ^2 / ndf 1005 / 100
p0 1684 ± 1.214
1850
1800
1750
1700
1650
1600

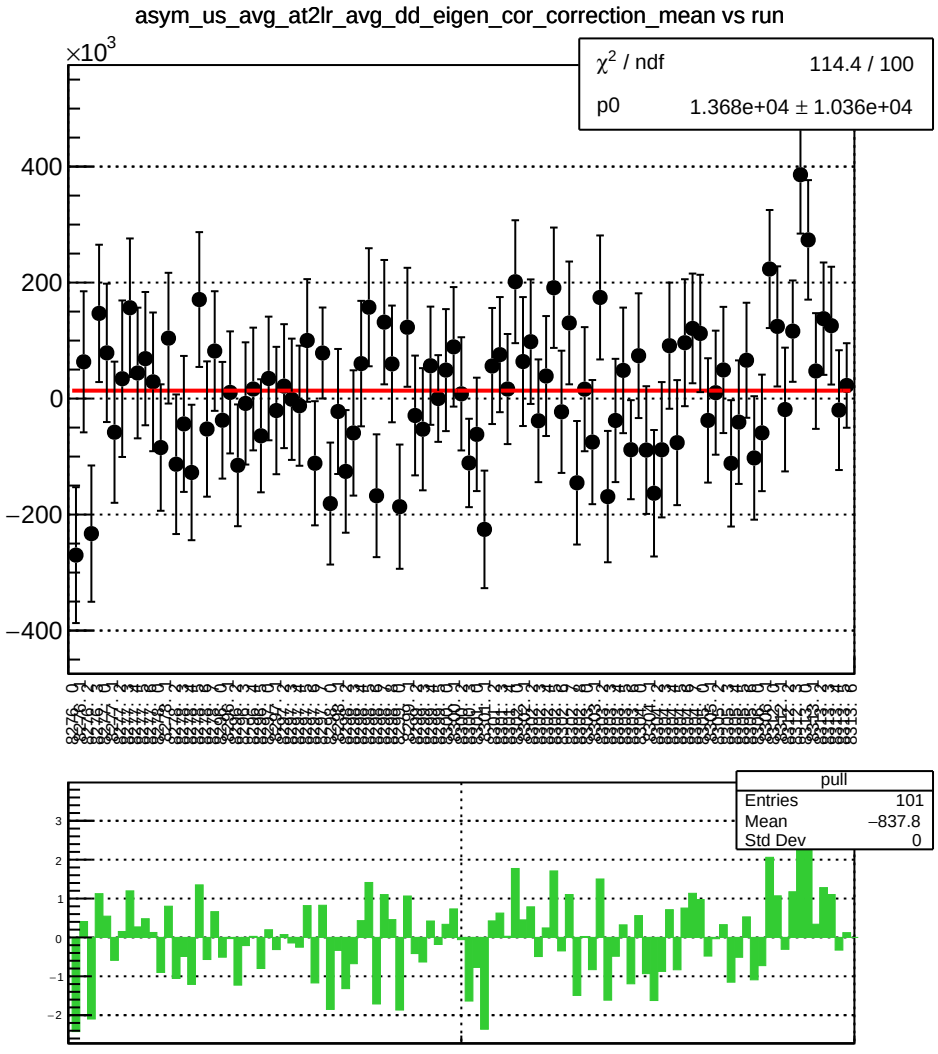

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 114.4 / 100
p0 1.368e+04 ± 1.036e+04
400
200
0
−200
−400
pull
Entries 101
Mean −837.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.007562
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

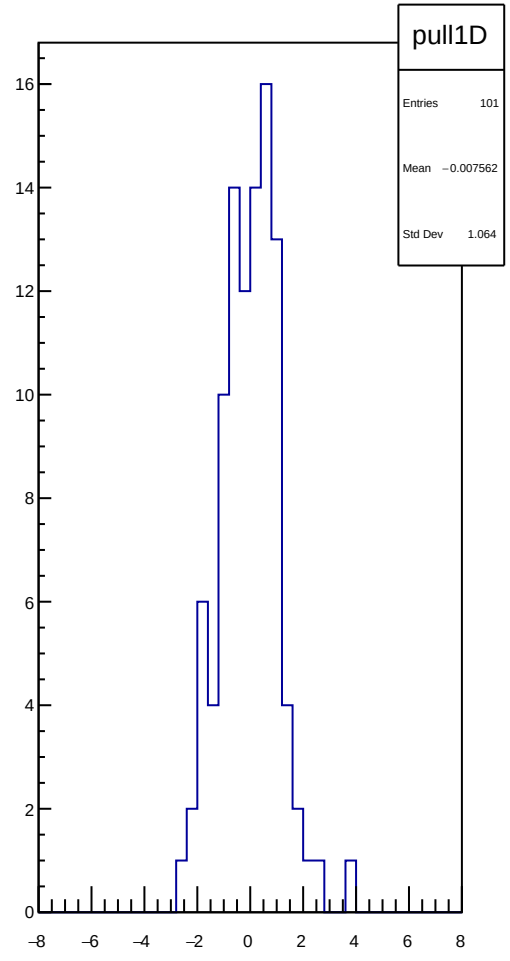

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ² / ndf 5930 / 100
p0 1.016e+04 ± 7.328
13000
12500
12000
11500
11000
10500
10000
9500
9000

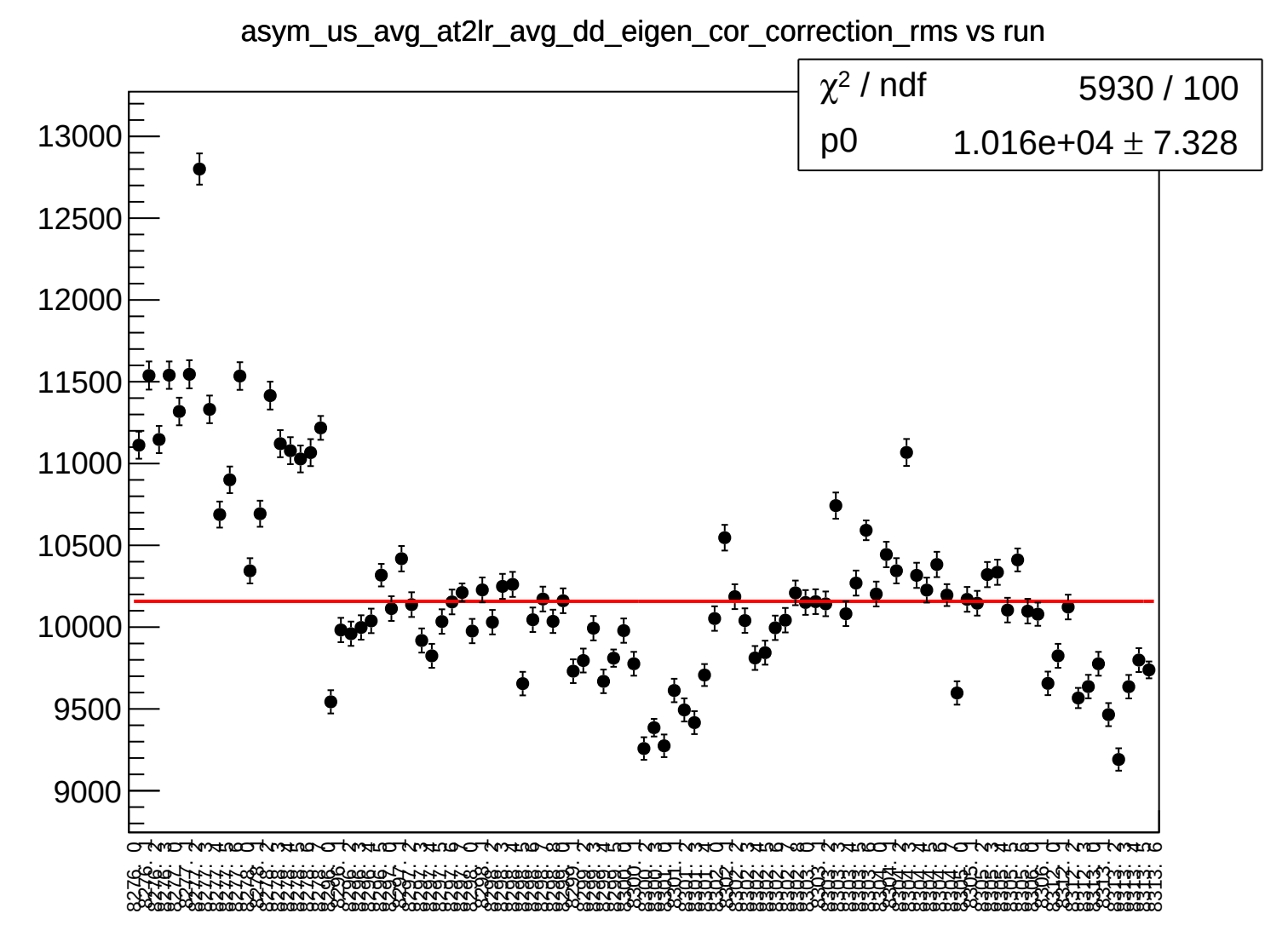

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 117.5 / 100
p0 −1414 ± 1716
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean 523.7
Std Dev 0
2
1
0
−1
−2

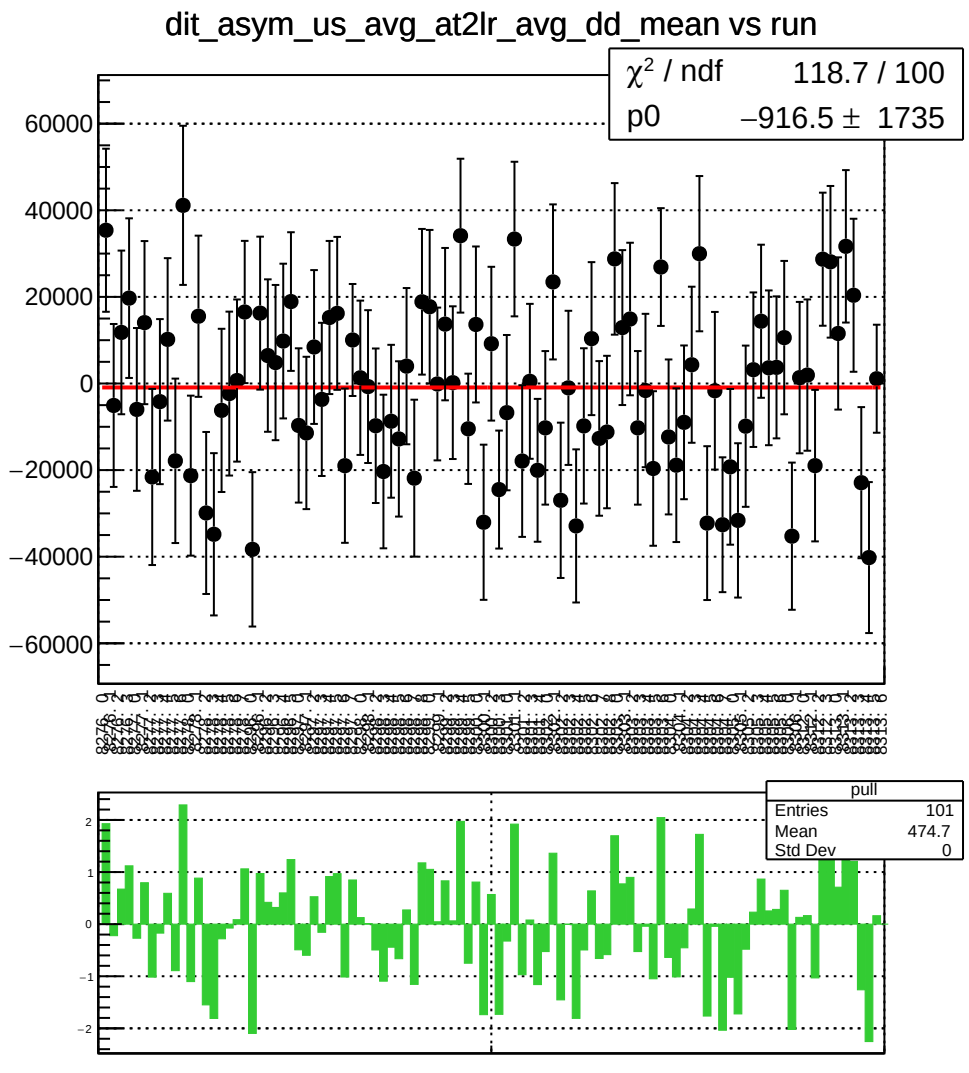

pull1D
Entries 101
Mean −0.005388
Std Dev 1.079
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

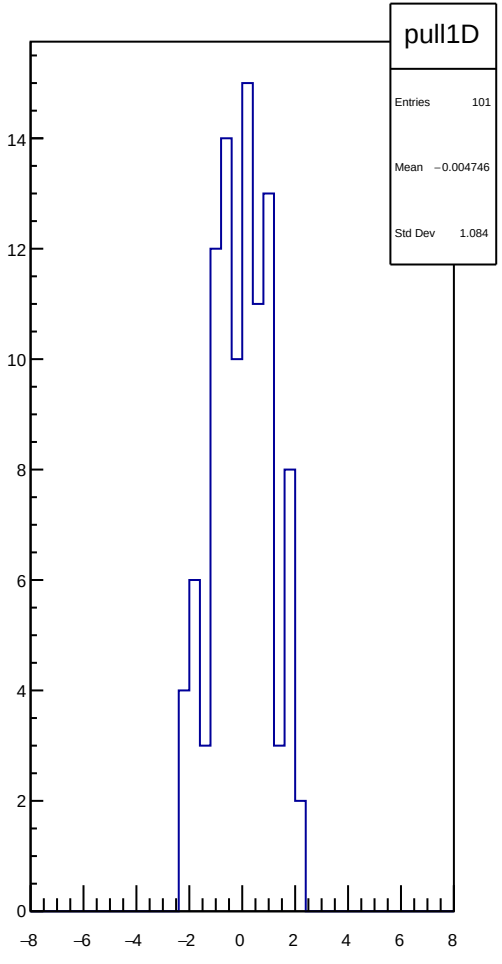

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 1005 / 100
p0 1684 ± 1.214
1850
1800
1750
1700
1650
1600


asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 114.4 / 100
p0 1.368e+04 ± 1.036e+04
400
200
0
−200
−400
pull
Entries 101
Mean −837.8
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 101
Mean −0.007562
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 5930 / 100
p0 1.016e+04 ± 7.328
13000
12500
12000
11500
11000
10500
10000
9500
9000


dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 118.7 / 100
p0 −916.5 ± 1735
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean 474.7
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 101
Mean −0.004746
Std Dev 1.084
14
12
10
8
6
4
2
0
−8
−6
−4
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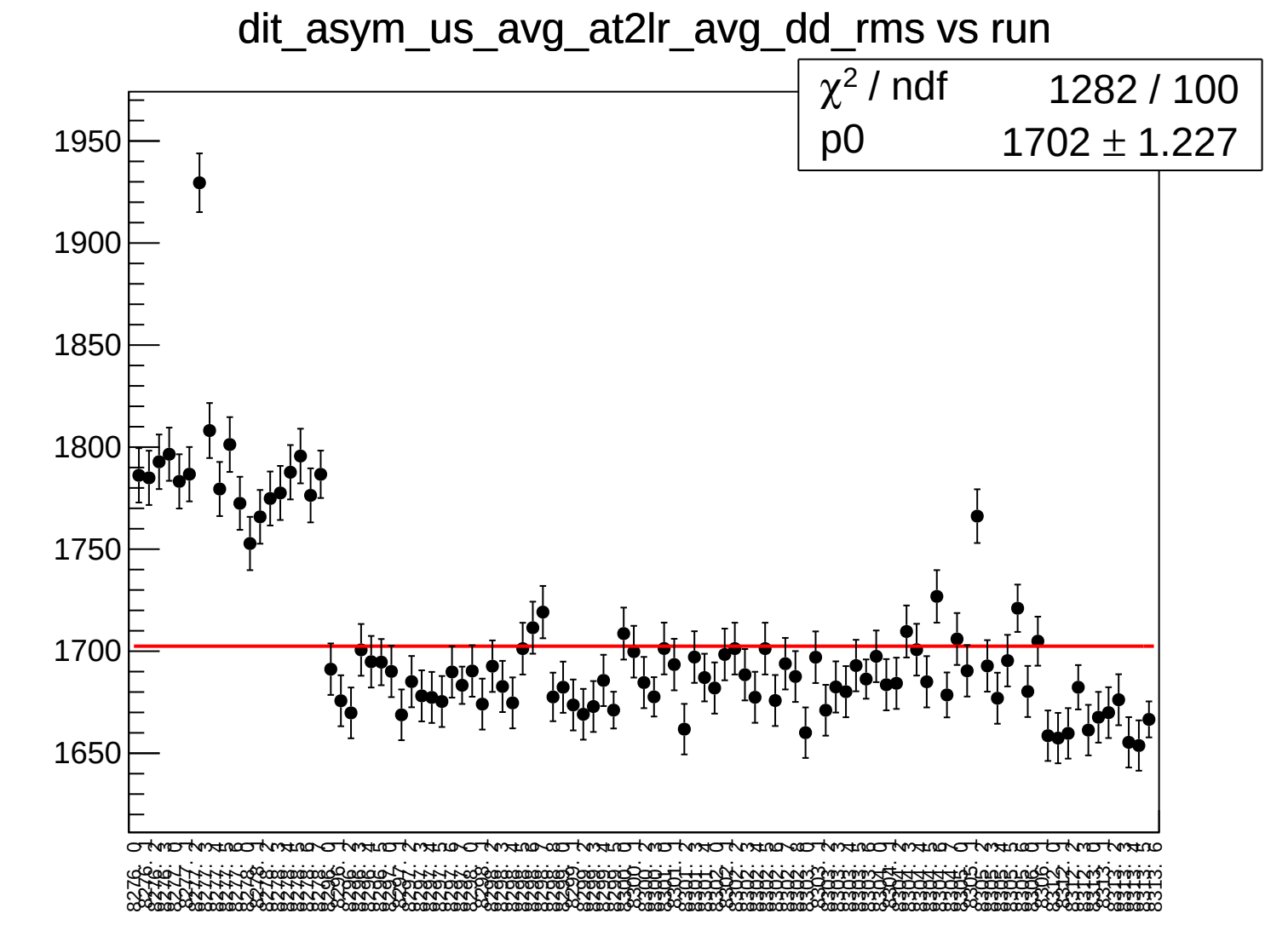
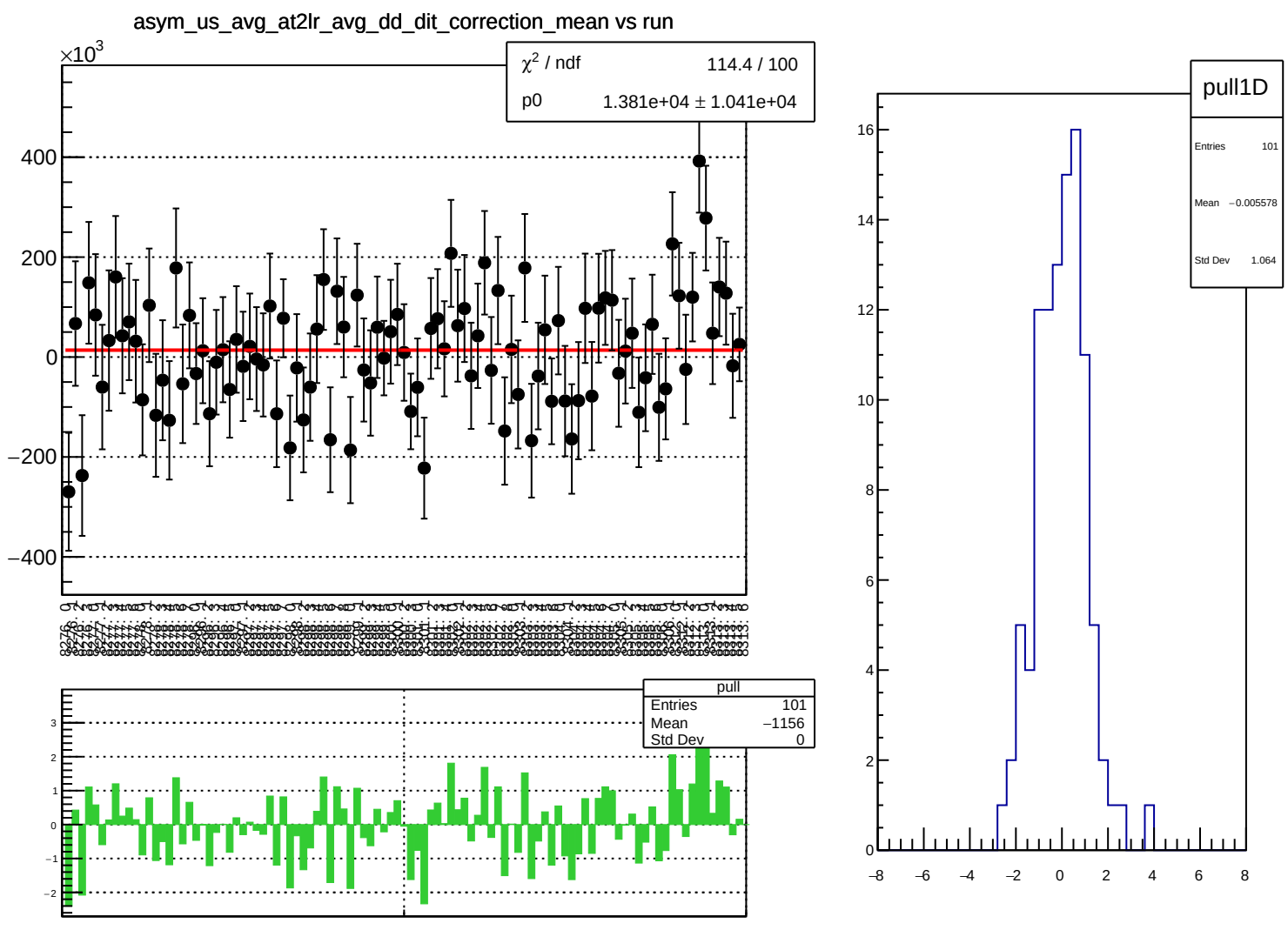
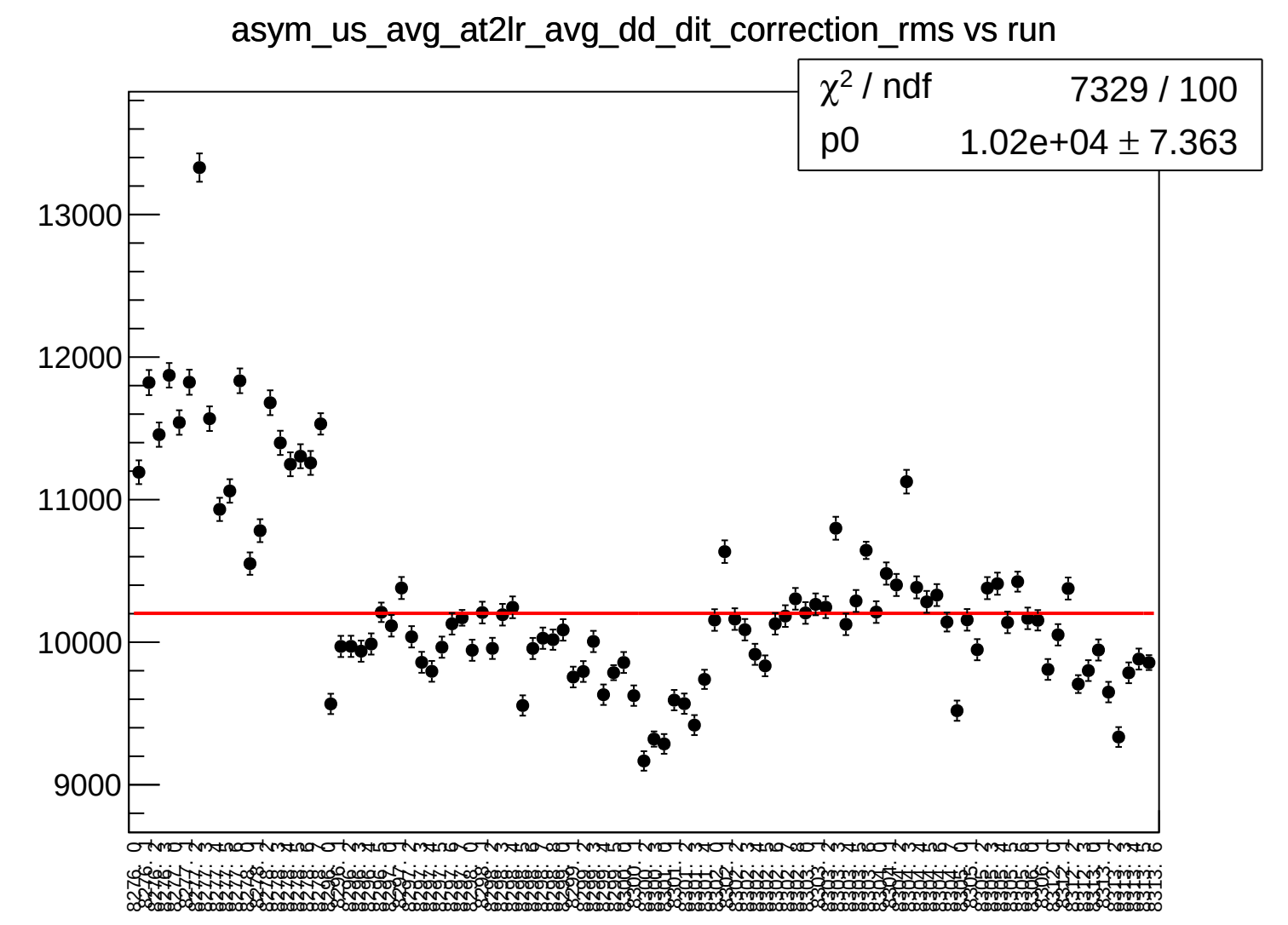
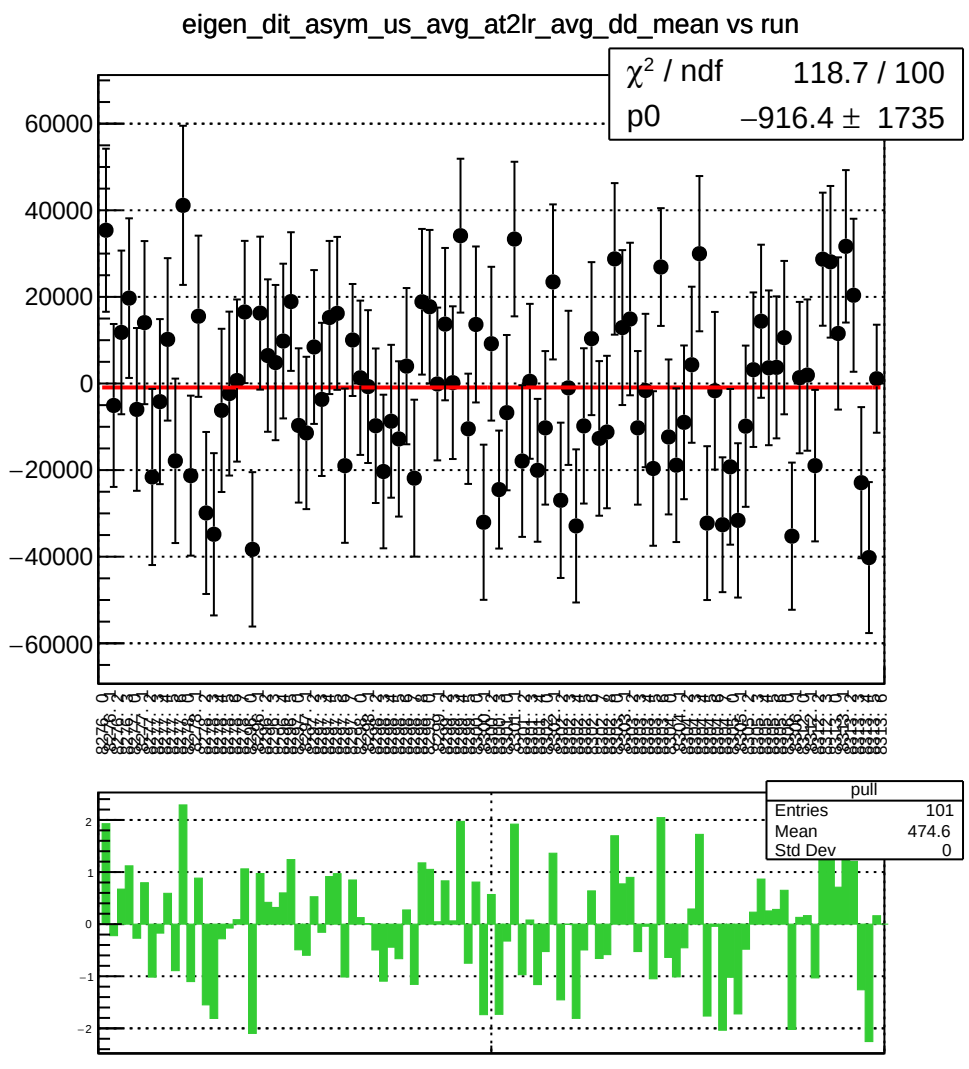
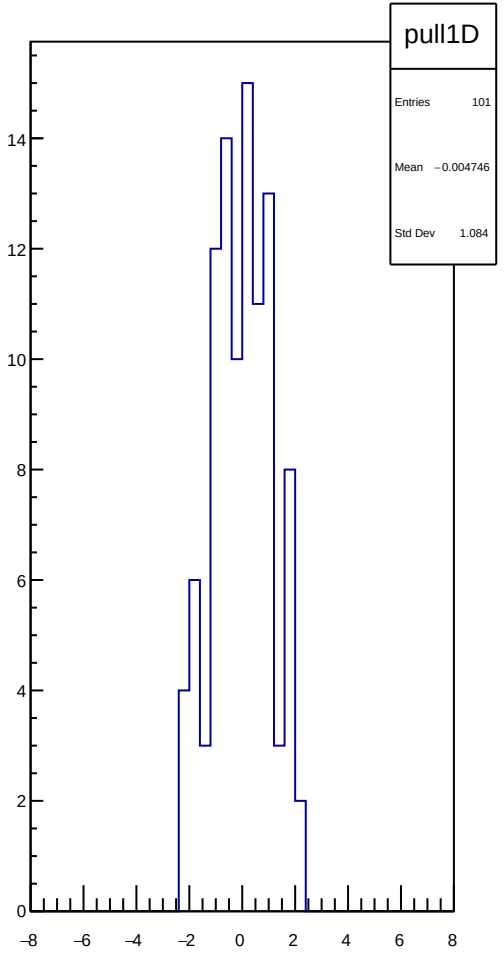
0
2
4
6
8

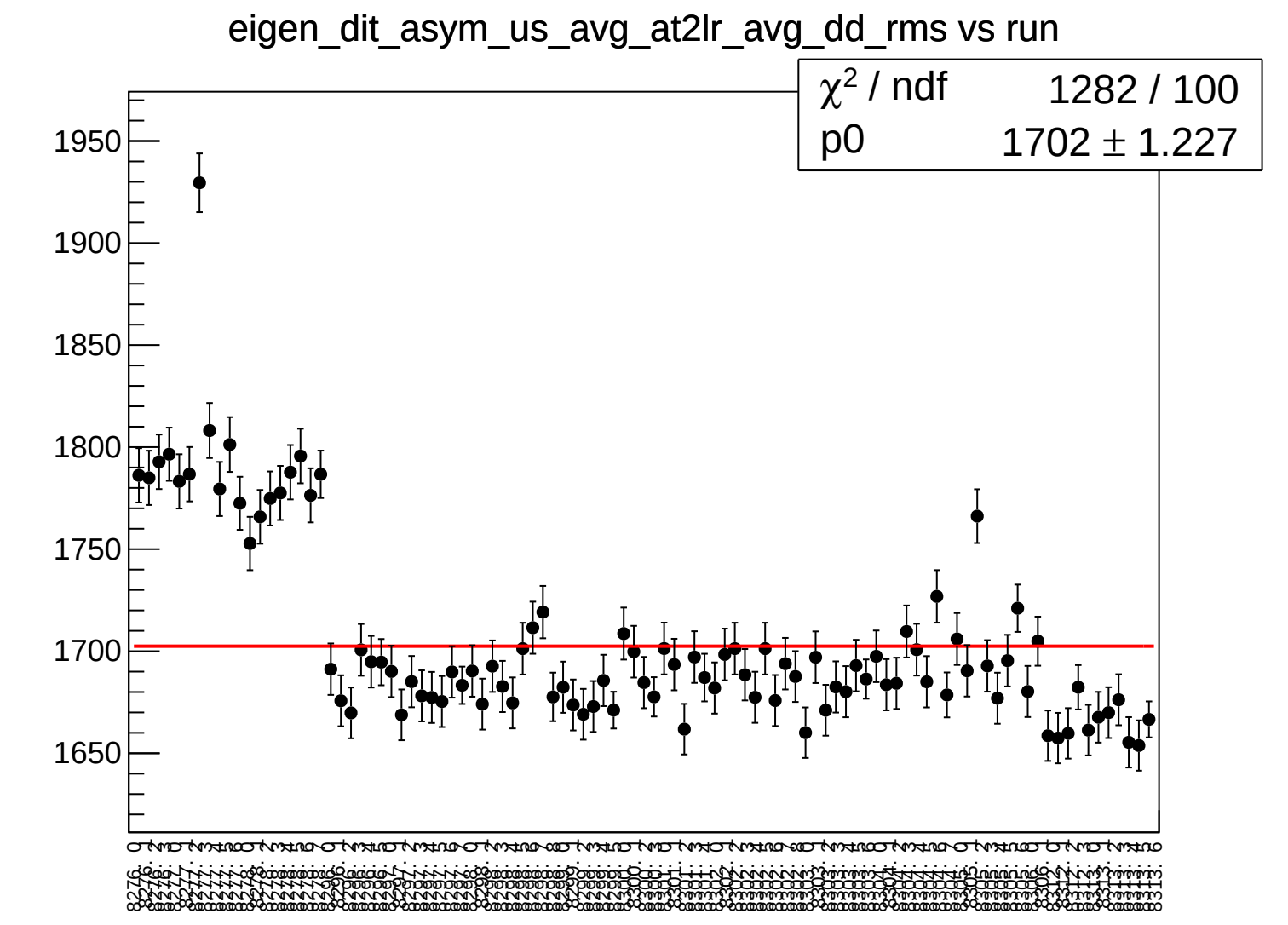

dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 1282 / 100
p0 1702 ± 1.227
1950
1900
1850
1800
1750
1700
1650

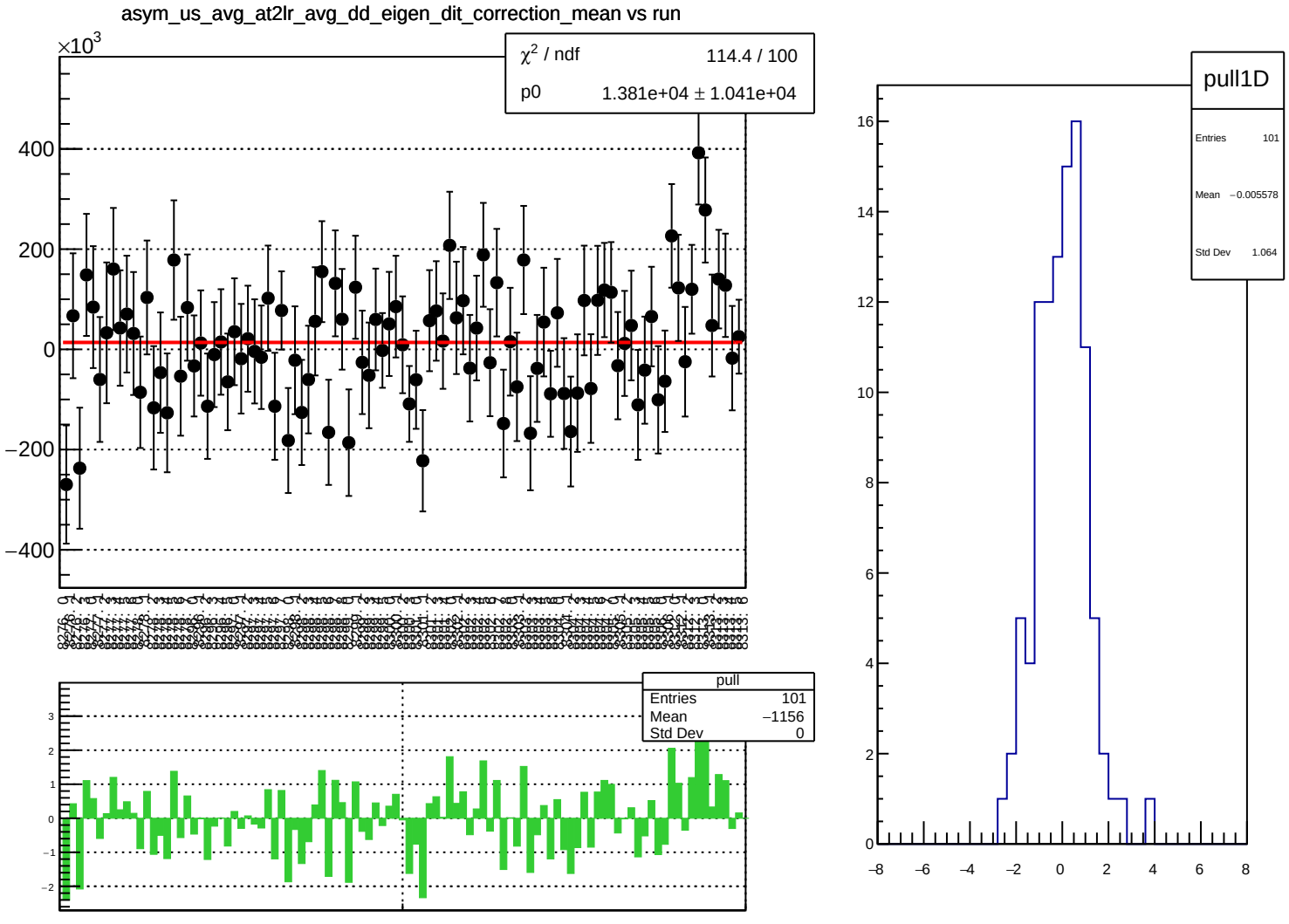

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 114.4 / 100
p0 1.381e+04 ± 1.041e+04
400
200
0
−200
−400
pull
Entries 101
Mean −1156
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.005578
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

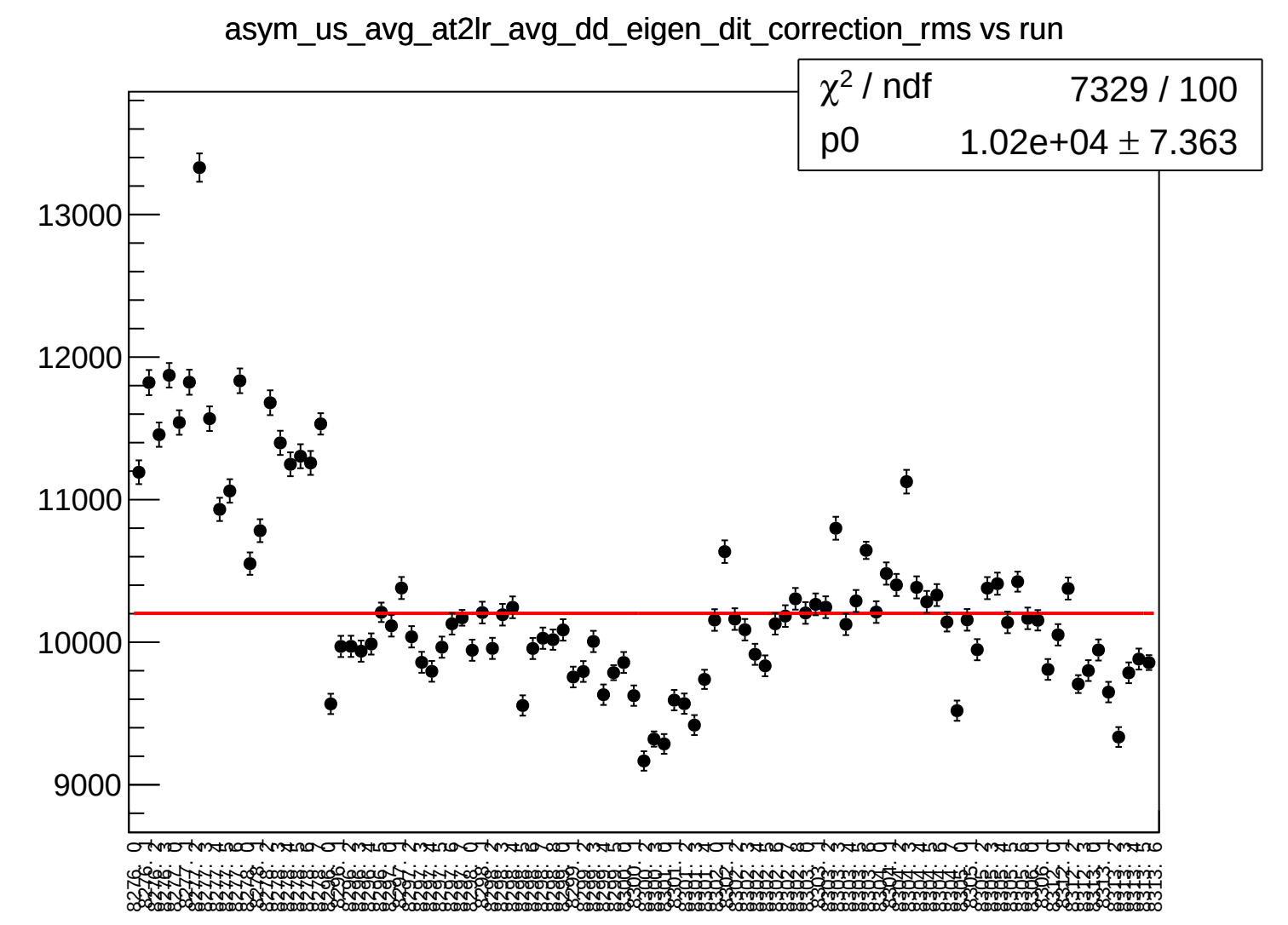

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 7329 / 100
p0 1.02e+04 ± 7.363
13000
12000
11000
10000
9000

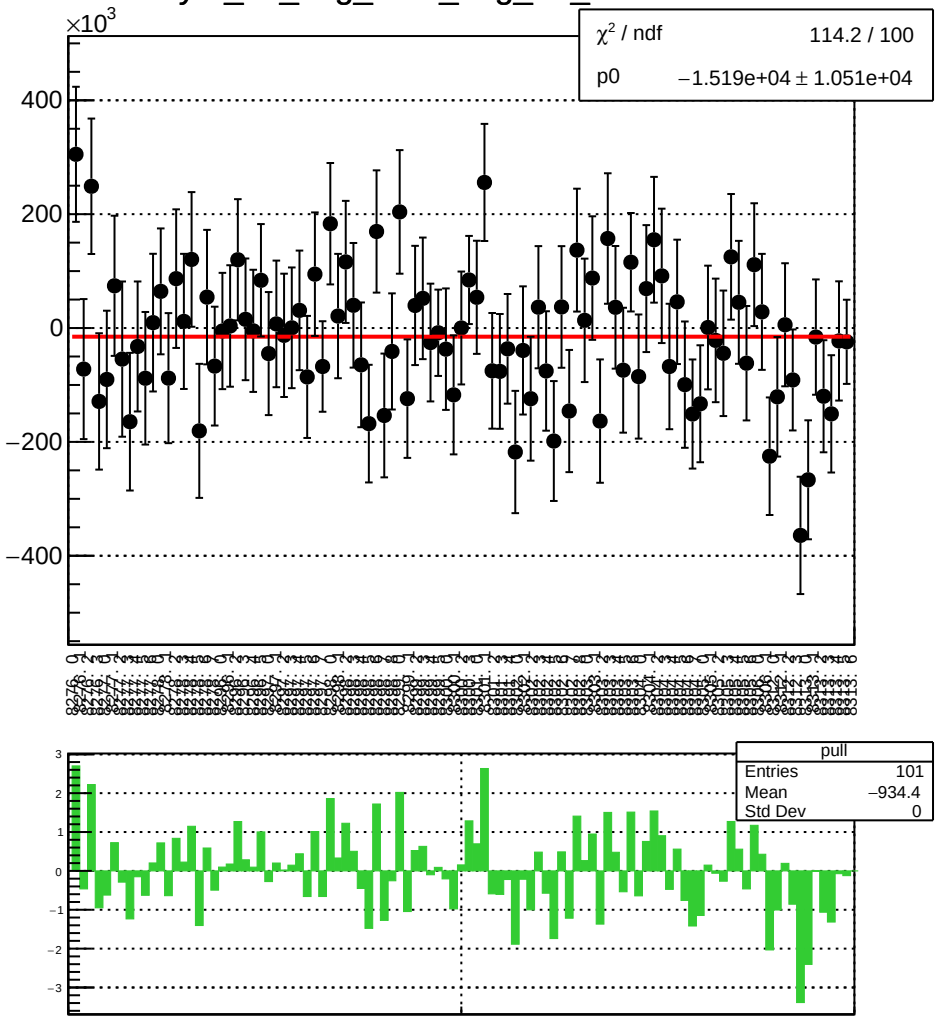

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 118.7 / 100
p0 −916.4 ± 1735
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean 474.6
Std Dev 0
2
1
0
−1
−2

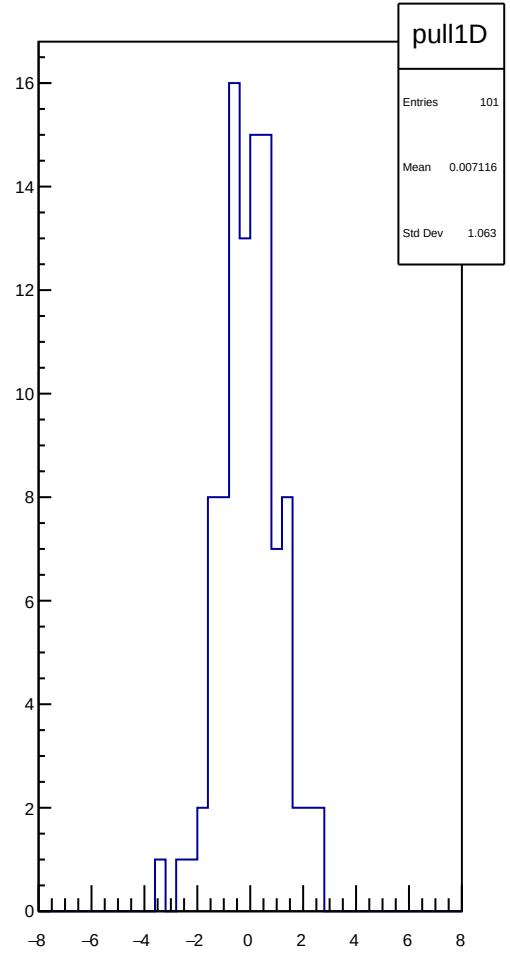

pull1D
Entries 101
Mean −0.004746
Std Dev 1.084
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

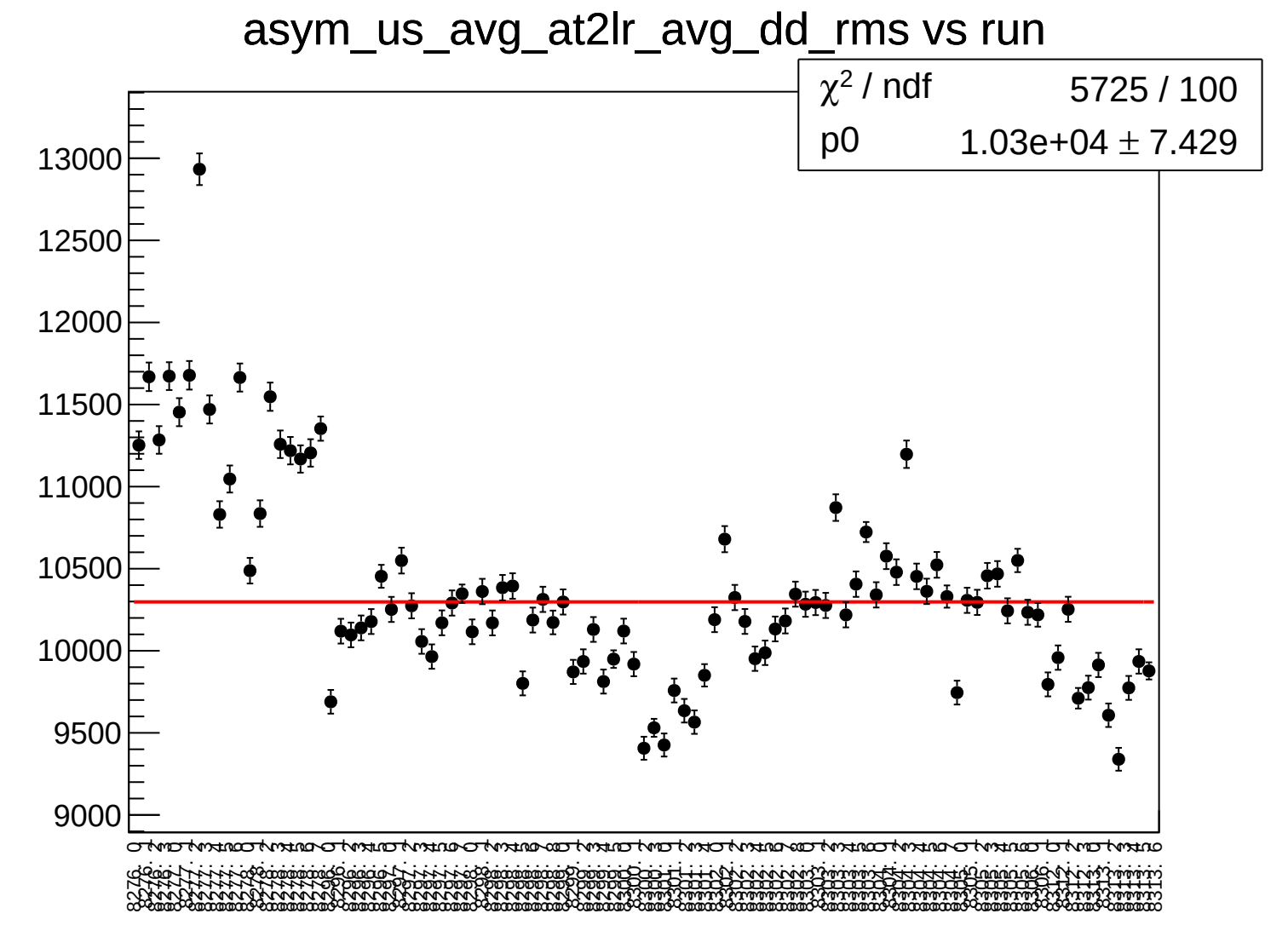

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 1282 / 100
p0 1702 ± 1.227
1950
1900
1850
1800
1750
1700
1650

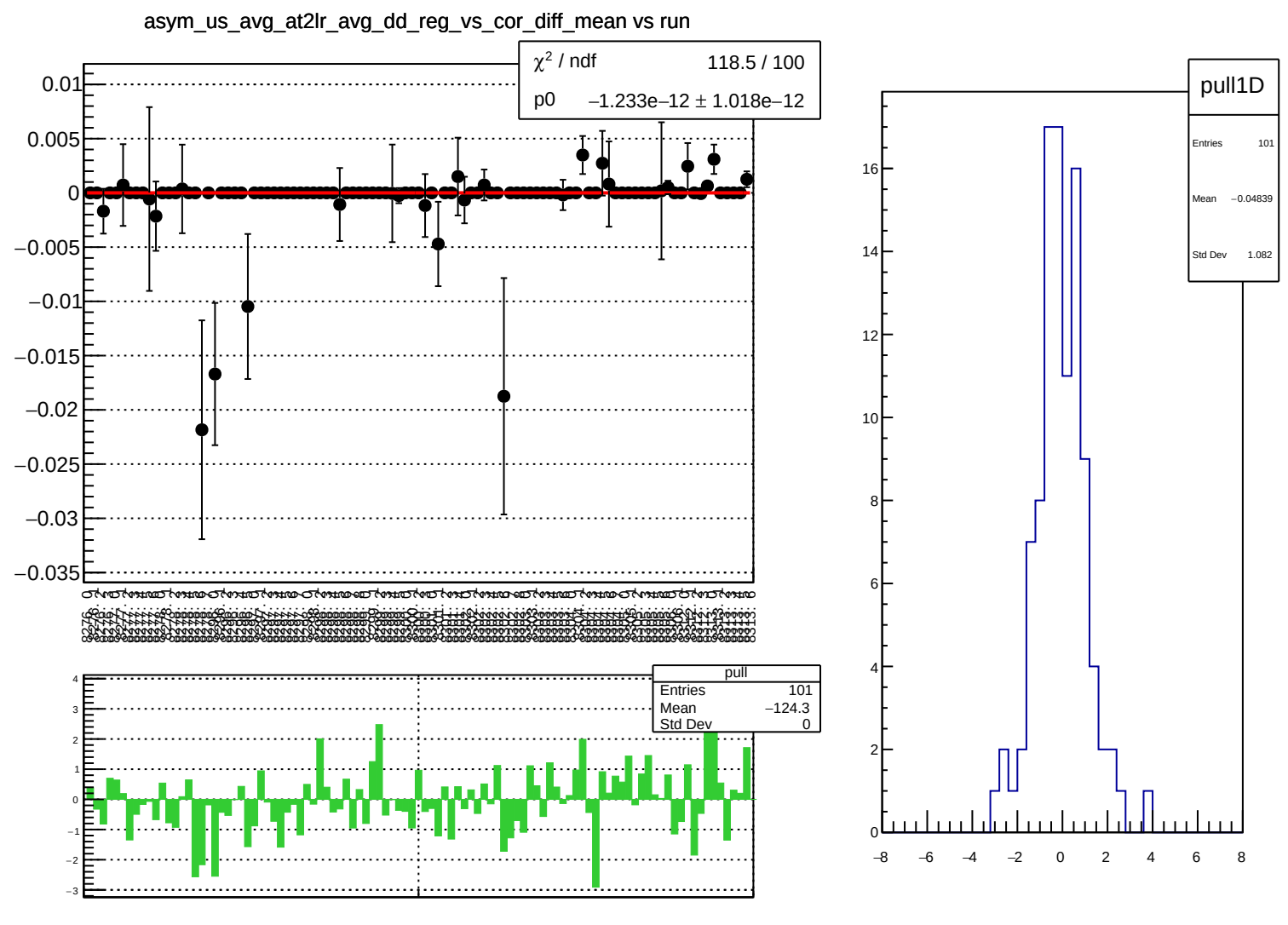

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 114.4 / 100
p0 1.381e+04 ± 1.041e+04
400
200
0
−200
−400
pull
Entries 101
Mean −1156
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.005578
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

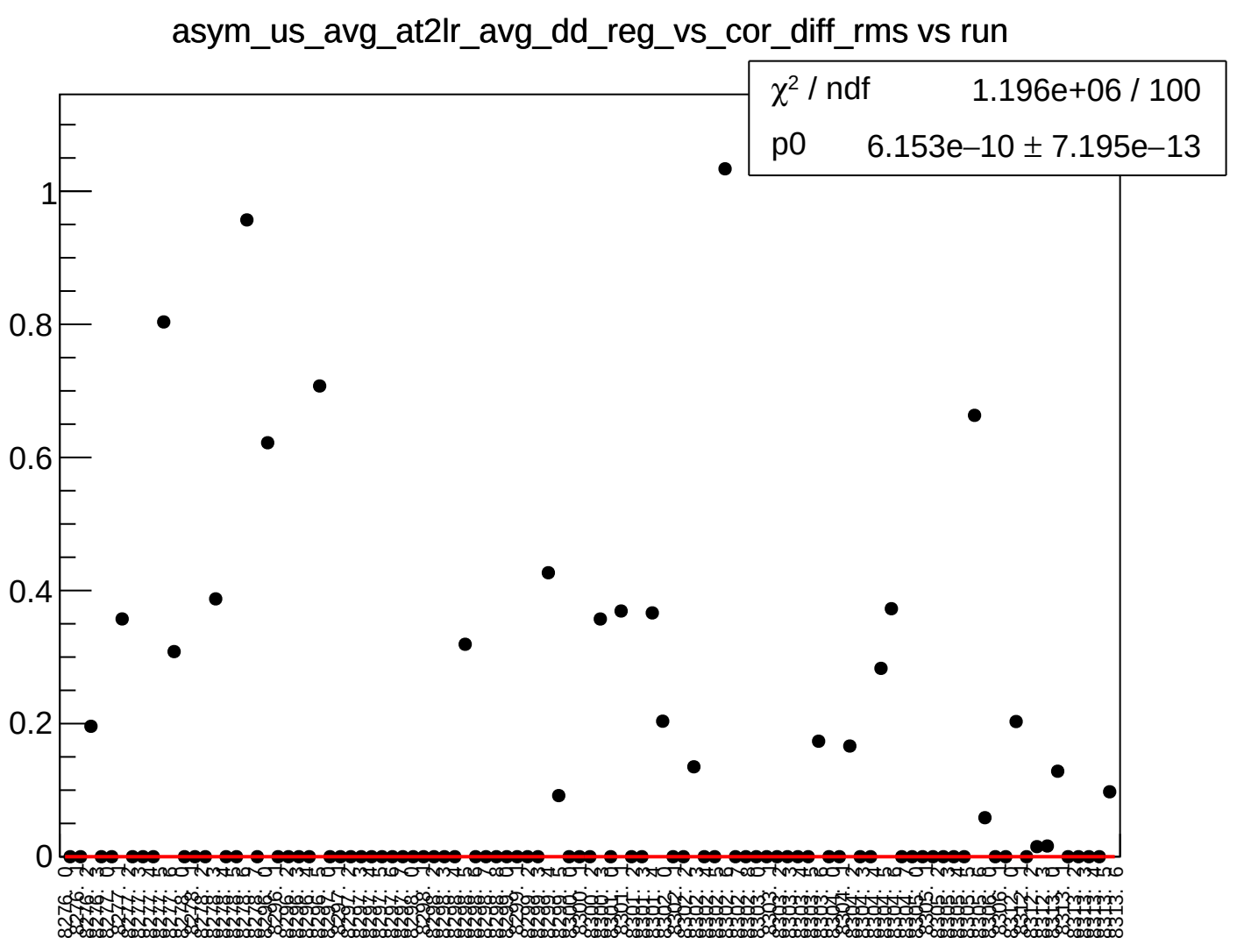

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 7329 / 100
p0 1.02e+04 ± 7.363
13000
12000
11000
10000
9000

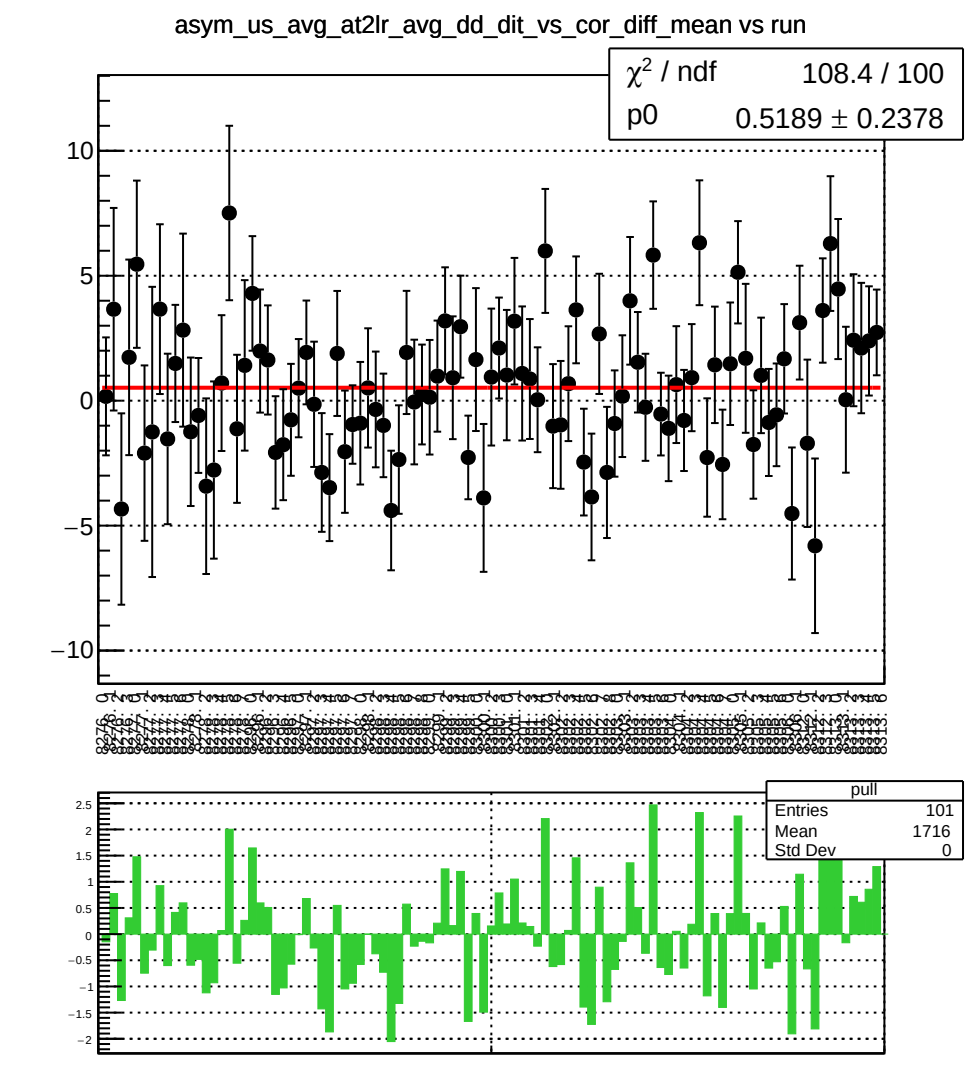

asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 114.2 / 100
p0 −1.519e+04 ± 1.051e+04
400
200
0
−200
−400
pull
Entries 101
Mean −934.4
Std Dev 0
3
2
1
0
−1
−2
−3

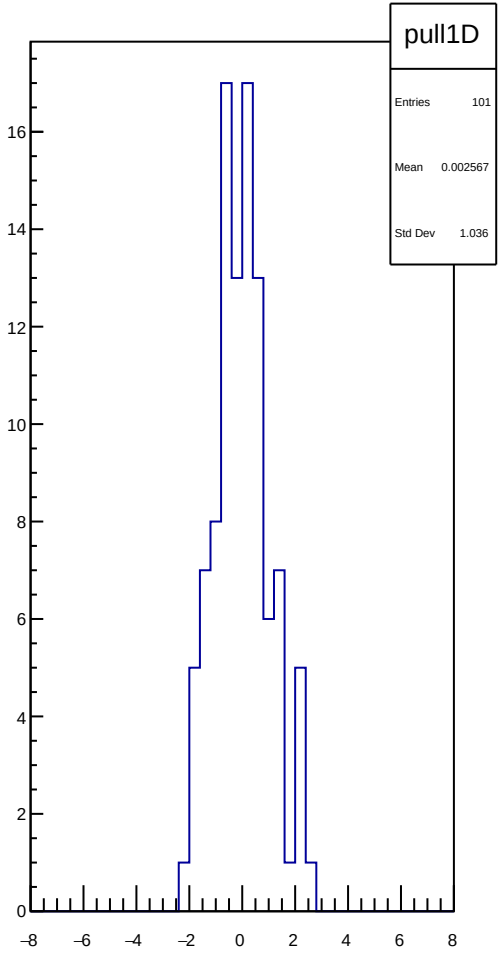

pull1D
Entries 101
Mean 0.007116
Std Dev 1.063
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

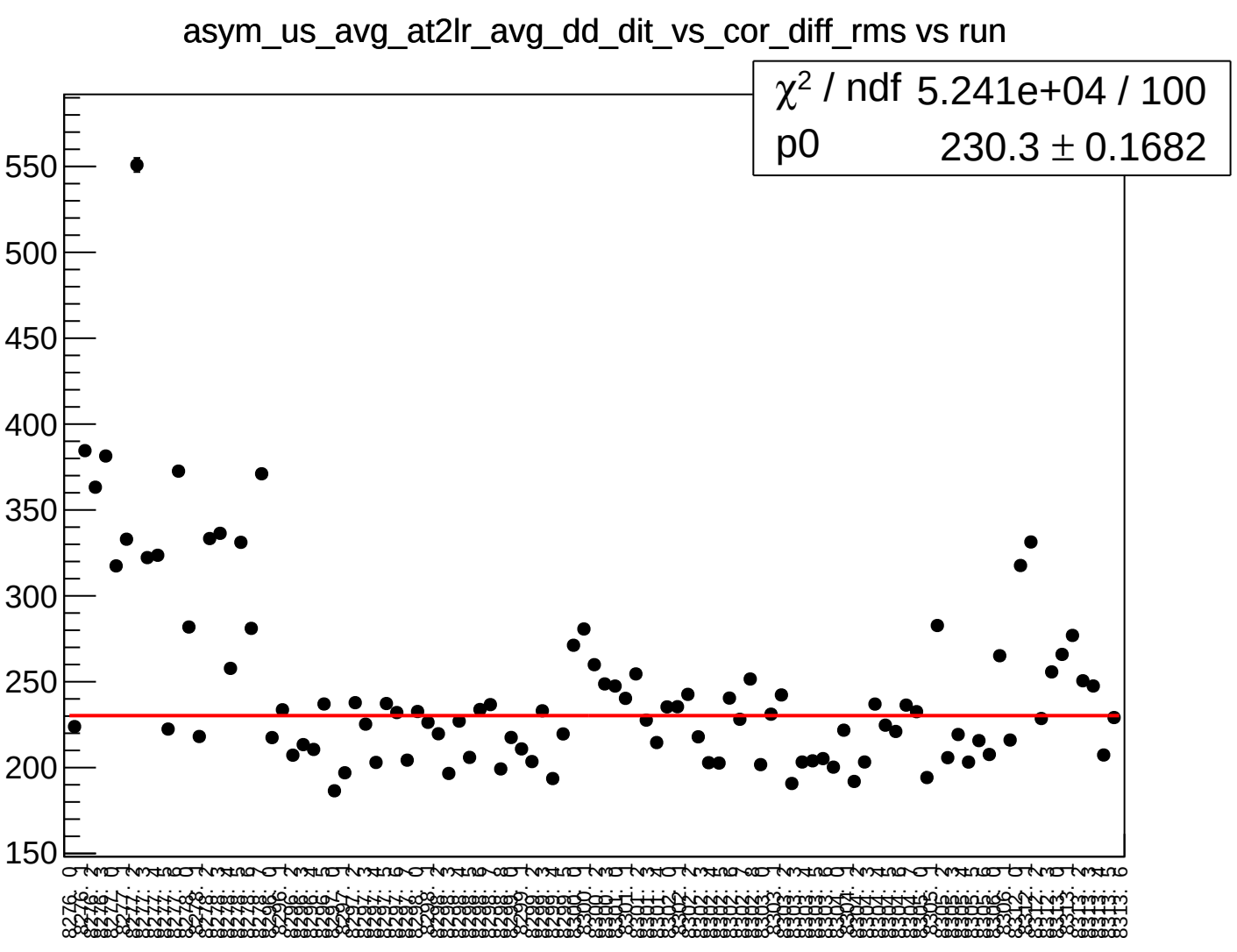

asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 5725 / 100
p0 1.03e+04 ± 7.429
13000
12500
12000
11500
11000
10500
10000
9500
9000

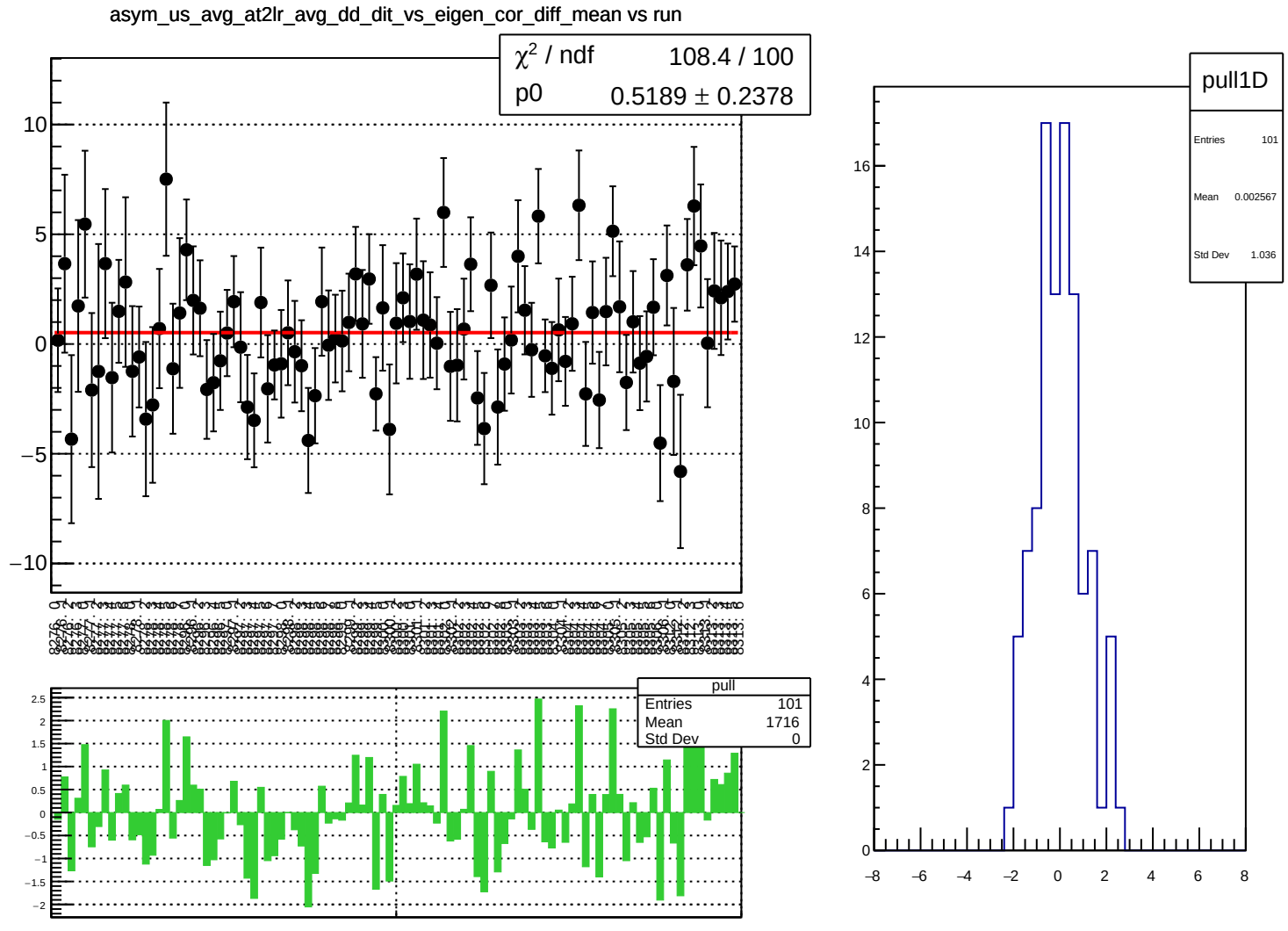

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 118.5 / 100
p0 −1.233e−12 ± 1.018e−12
pull
Entries 101
Mean −124.3
Std Dev 0
pull1D
Entries 101
Mean −0.04839
Std Dev 1.082

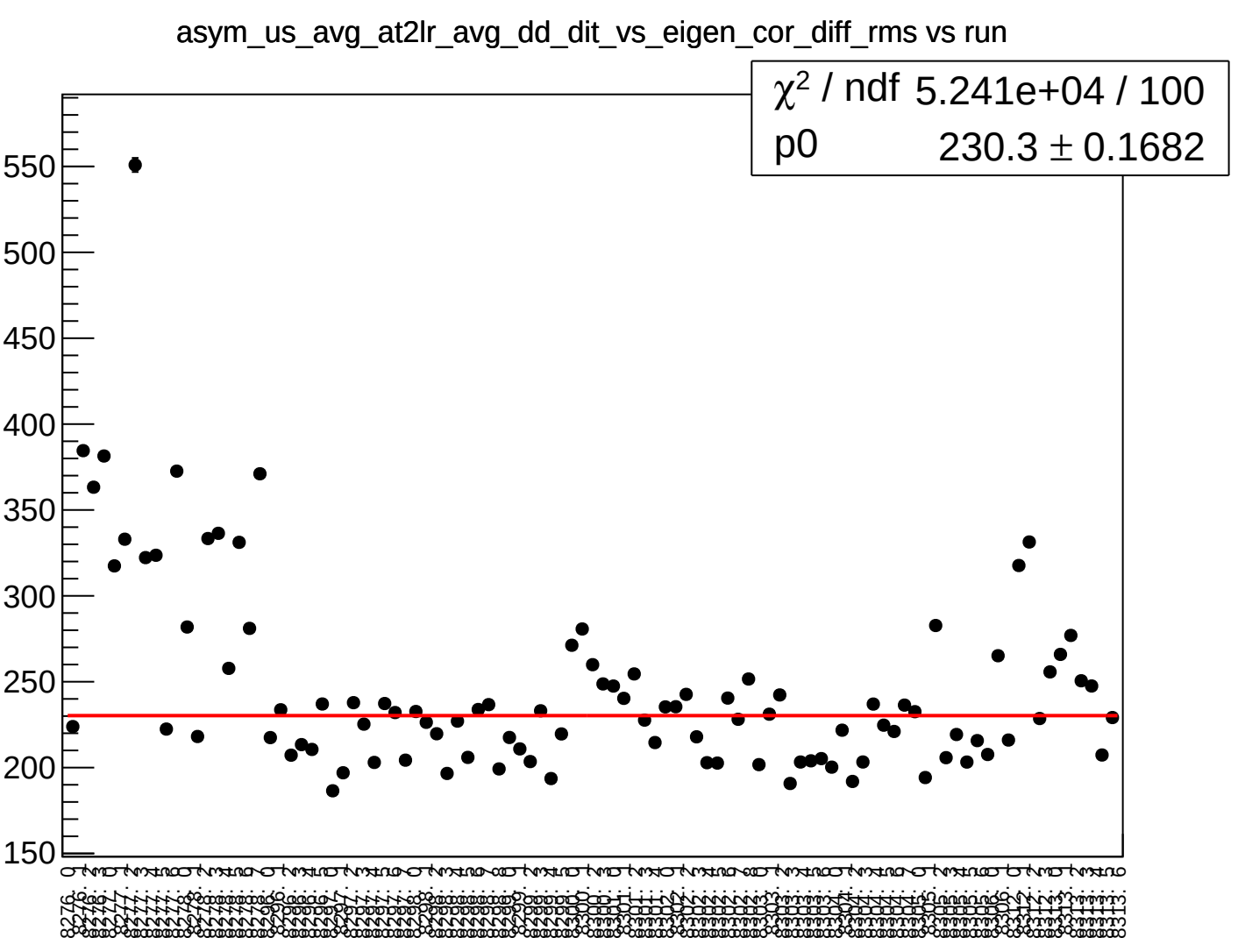

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.196e+06 / 100
p0 6.153e−10 ± 7.195e−13
1
0.8
0.6
0.4
0.2
0

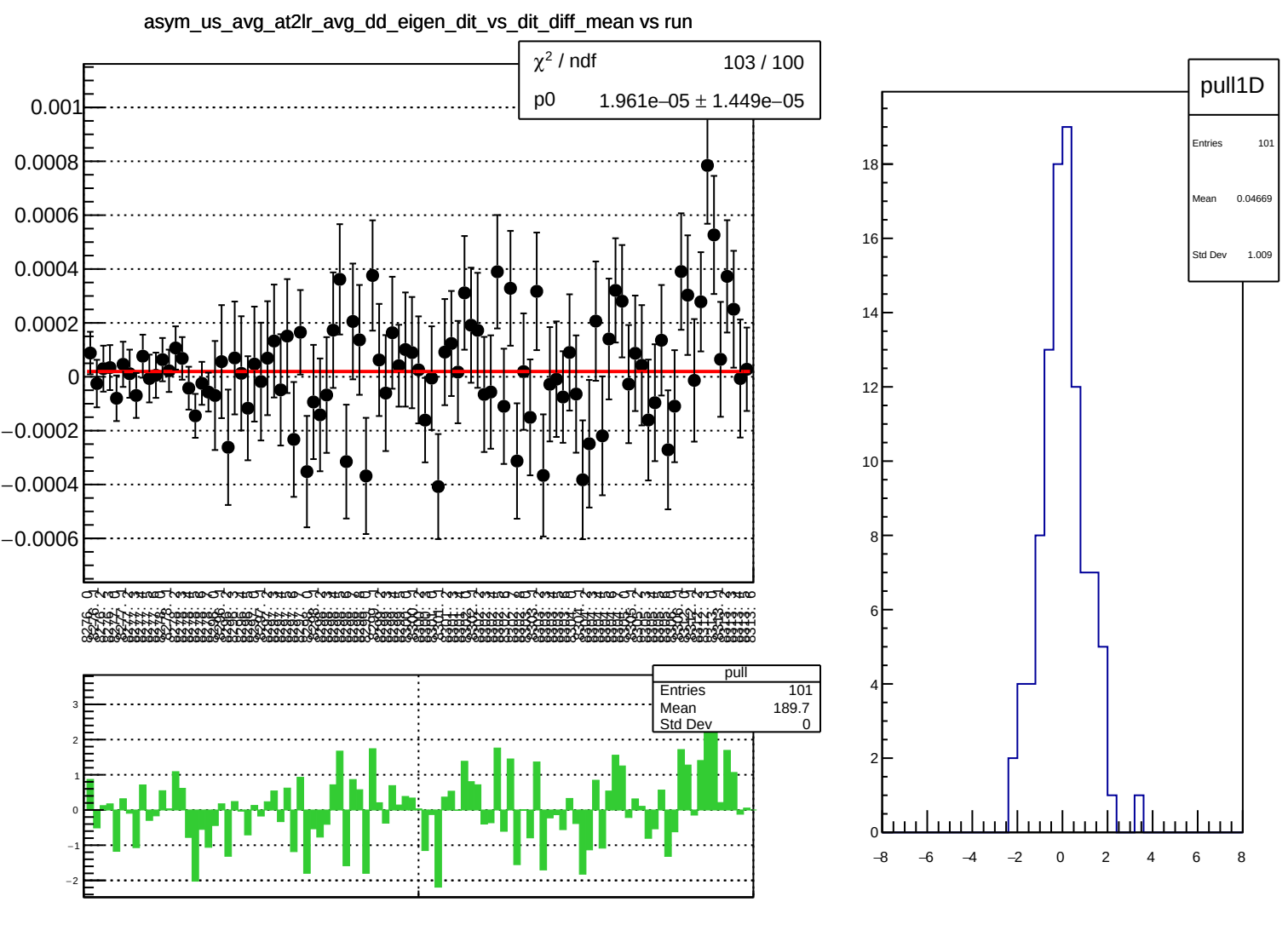

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 108.4 / 100
p0 0.5189 ± 0.2378
pull
Entries 101
Mean 1716
Std Dev 0

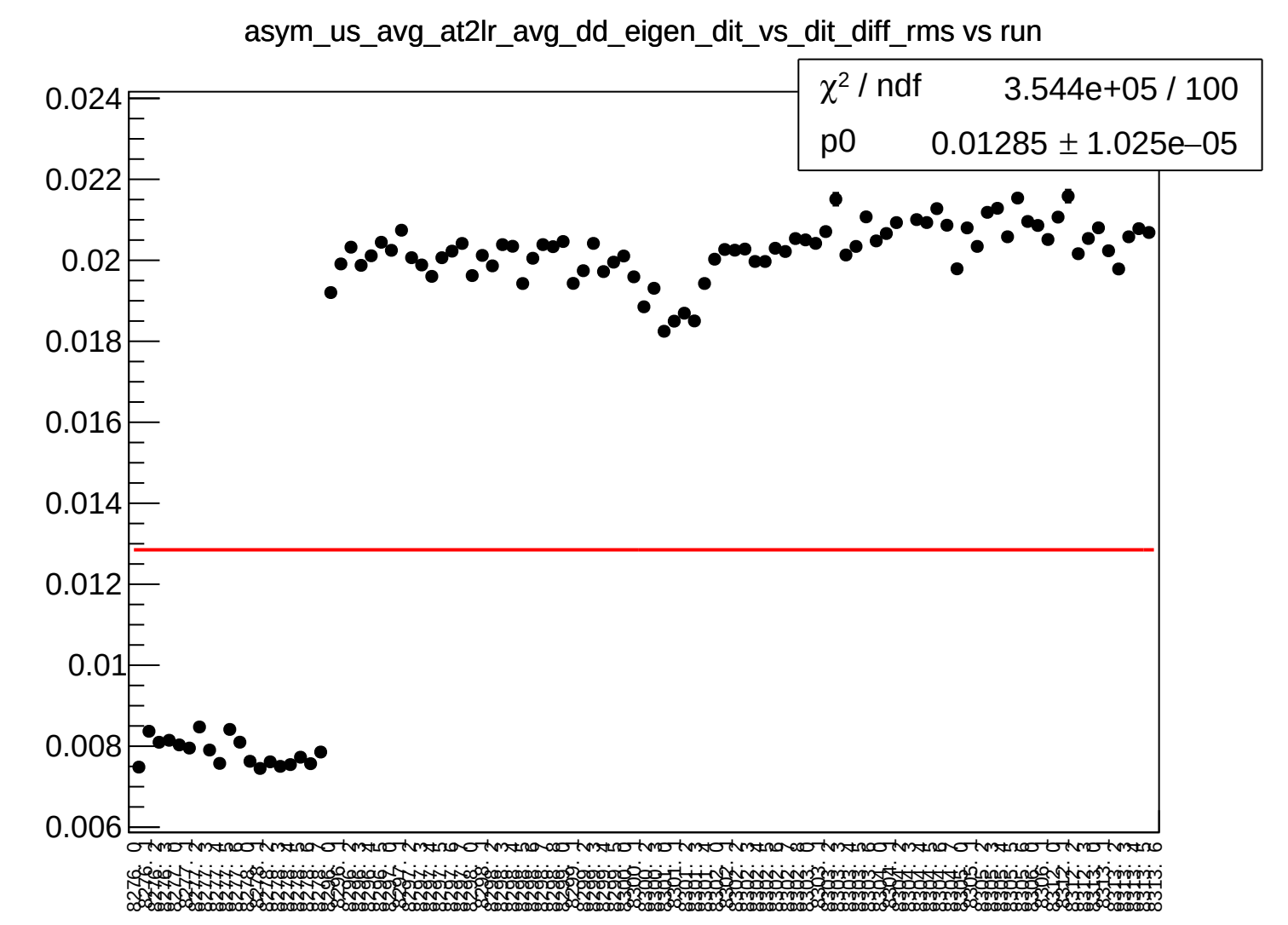

pull1D
Entries 101
Mean 0.002567
Std Dev 1.036

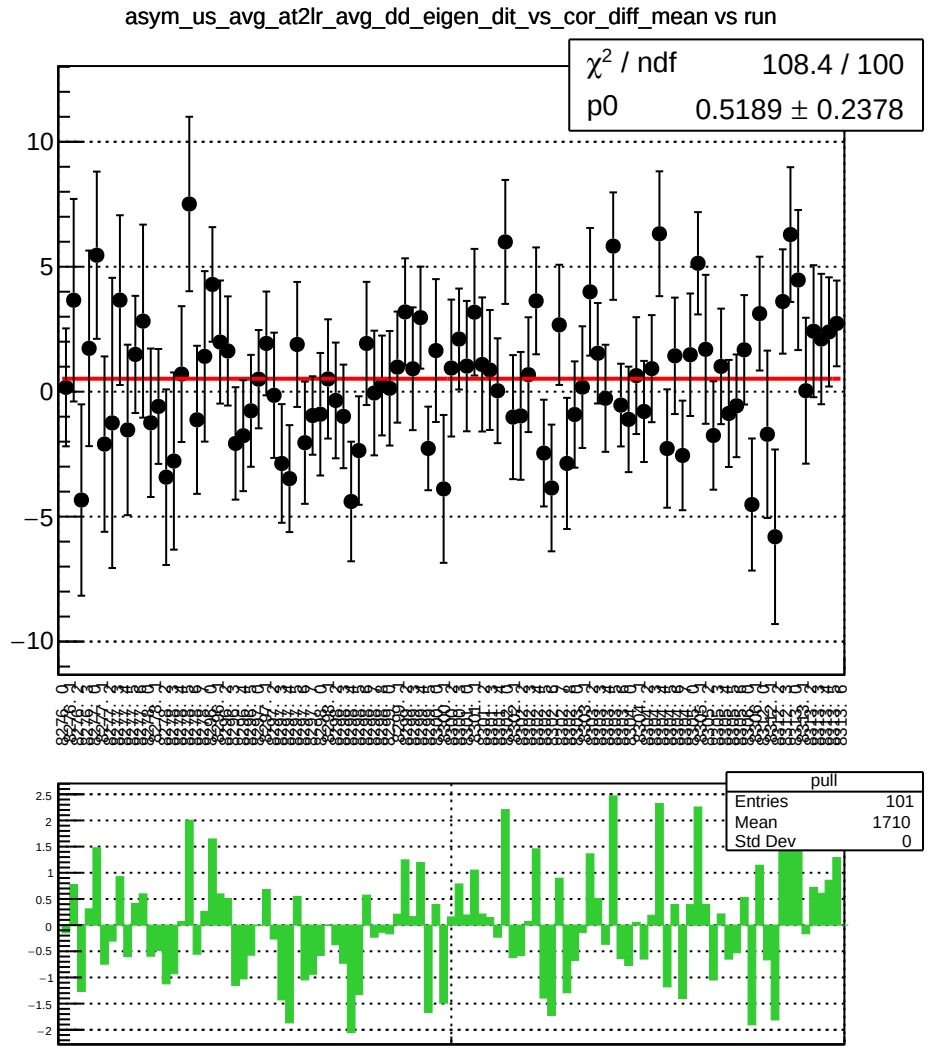

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.241e+04 / 100
p0 230.3 ± 0.1682
550
500
450
400
350
300
250
200
150

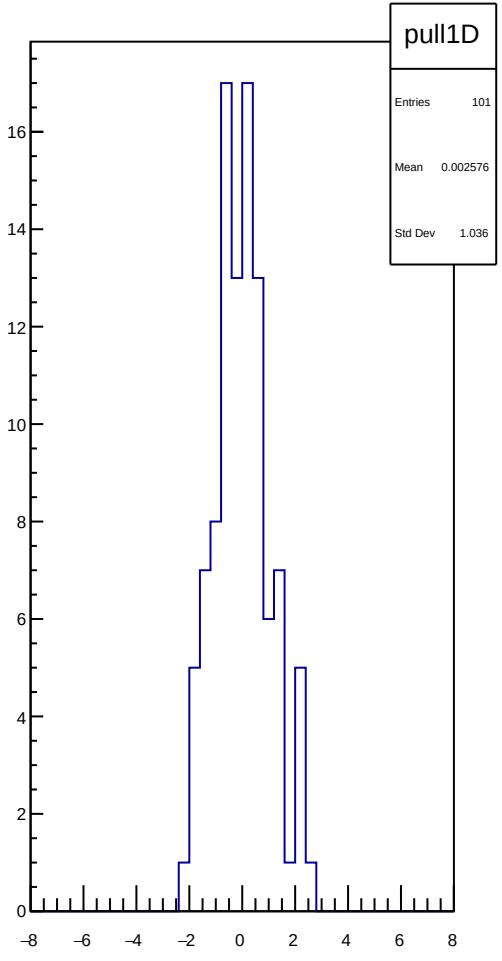

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.4 / 100
p0 0.5189 ± 0.2378
pull
Entries 101
Mean 1716
Std Dev 0
pull1D
Entries 101
Mean 0.002567
Std Dev 1.036

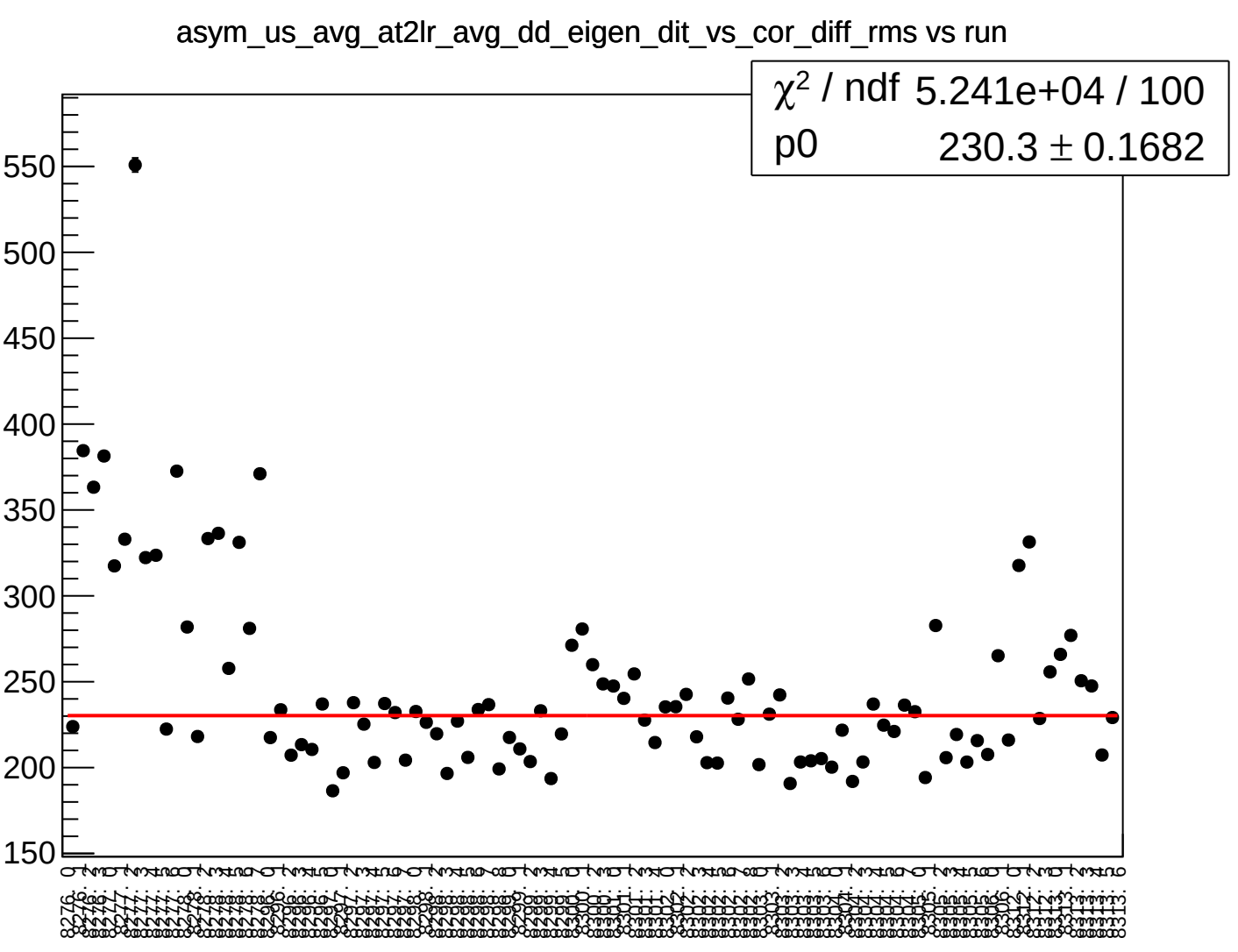

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.241e+04 / 100
p0 230.3 ± 0.1682
550
500
450
400
350
300
250
200
150

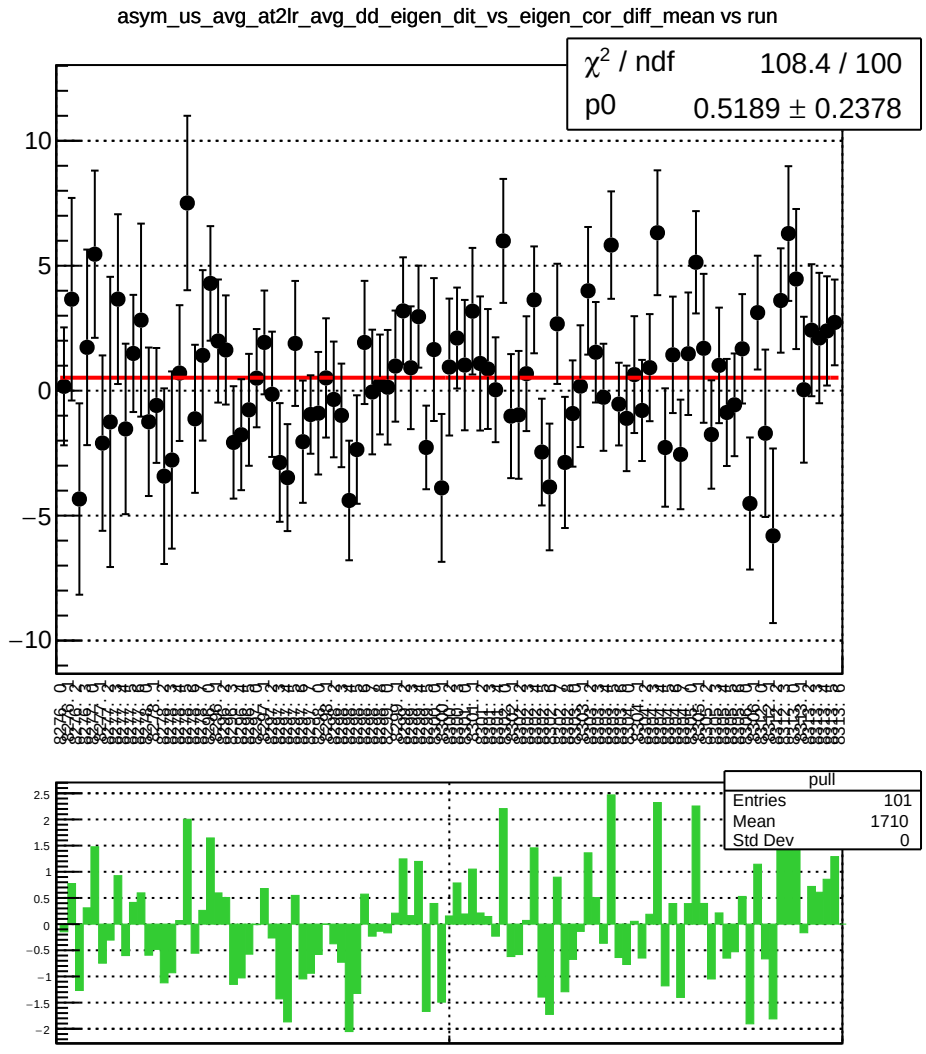

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 103 / 100
p0 1.961e−05 ± 1.449e−05
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
pull
Entries 101
Mean 189.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.04669
Std Dev 1.009
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

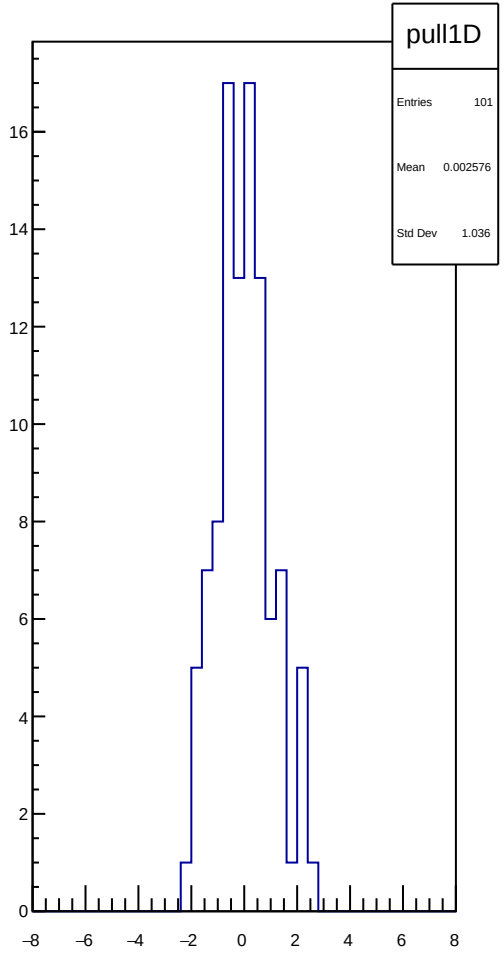

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.544e+05 / 100
p0 0.01285 ± 1.025e−05
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

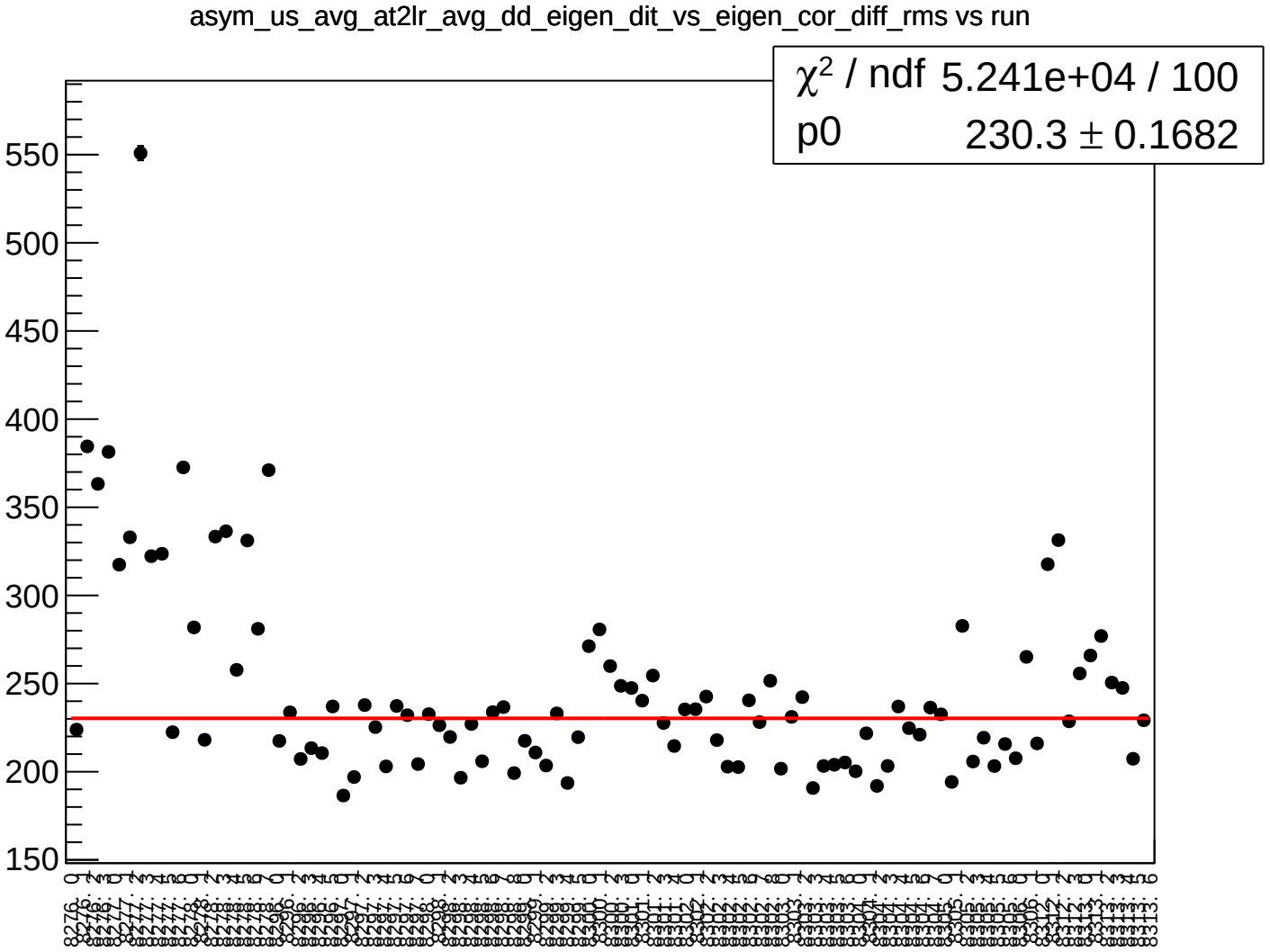

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 108.4 / 100
p0 0.5189 ± 0.2378
pull
Entries 101
Mean 1710
Std Dev 0

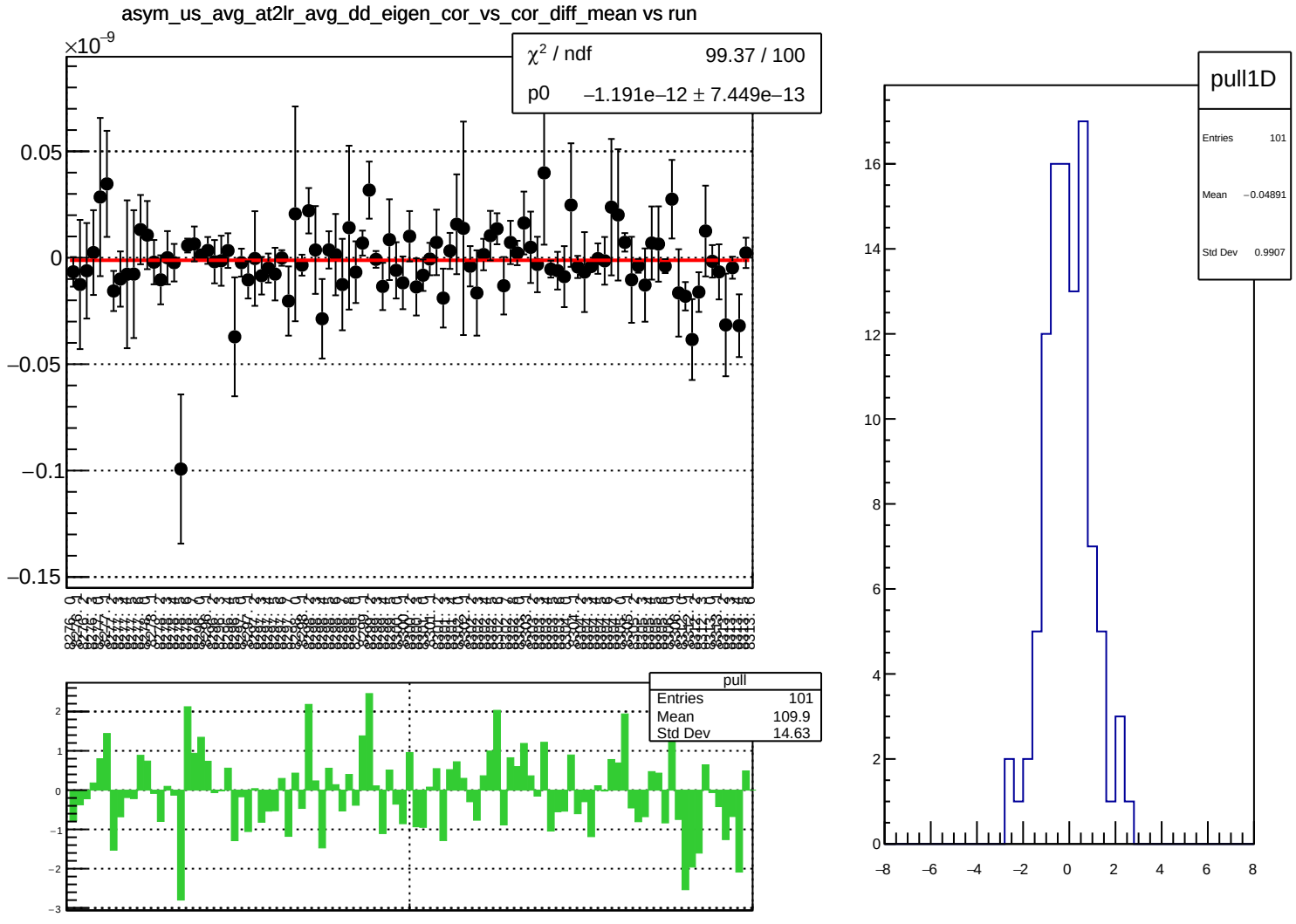

pull1D
Entries 101
Mean 0.002576
Std Dev 1.036

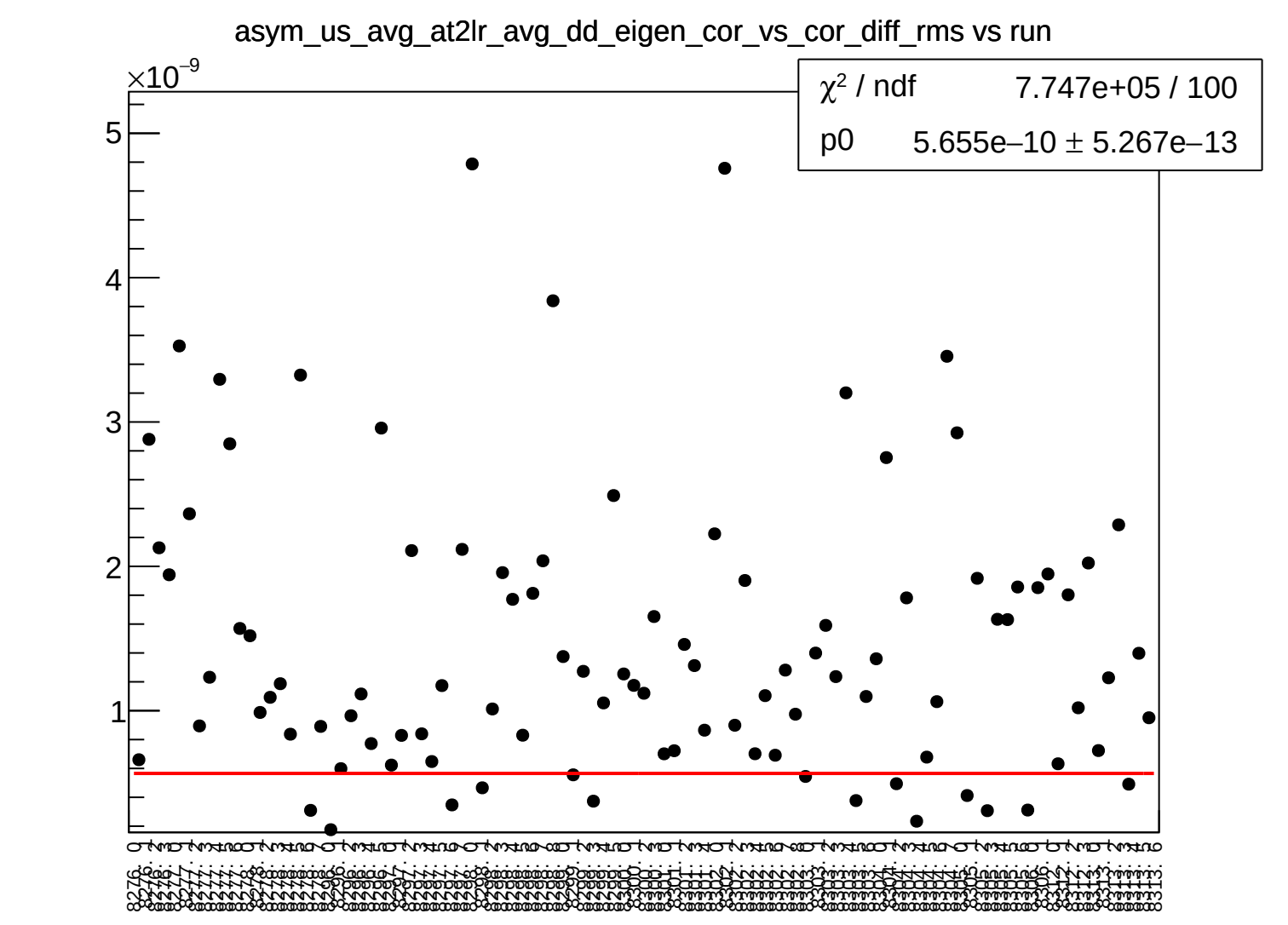

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.241e+04 / 100
p0 230.3 ± 0.1682
550
500
450
400
350
300
250
200
150

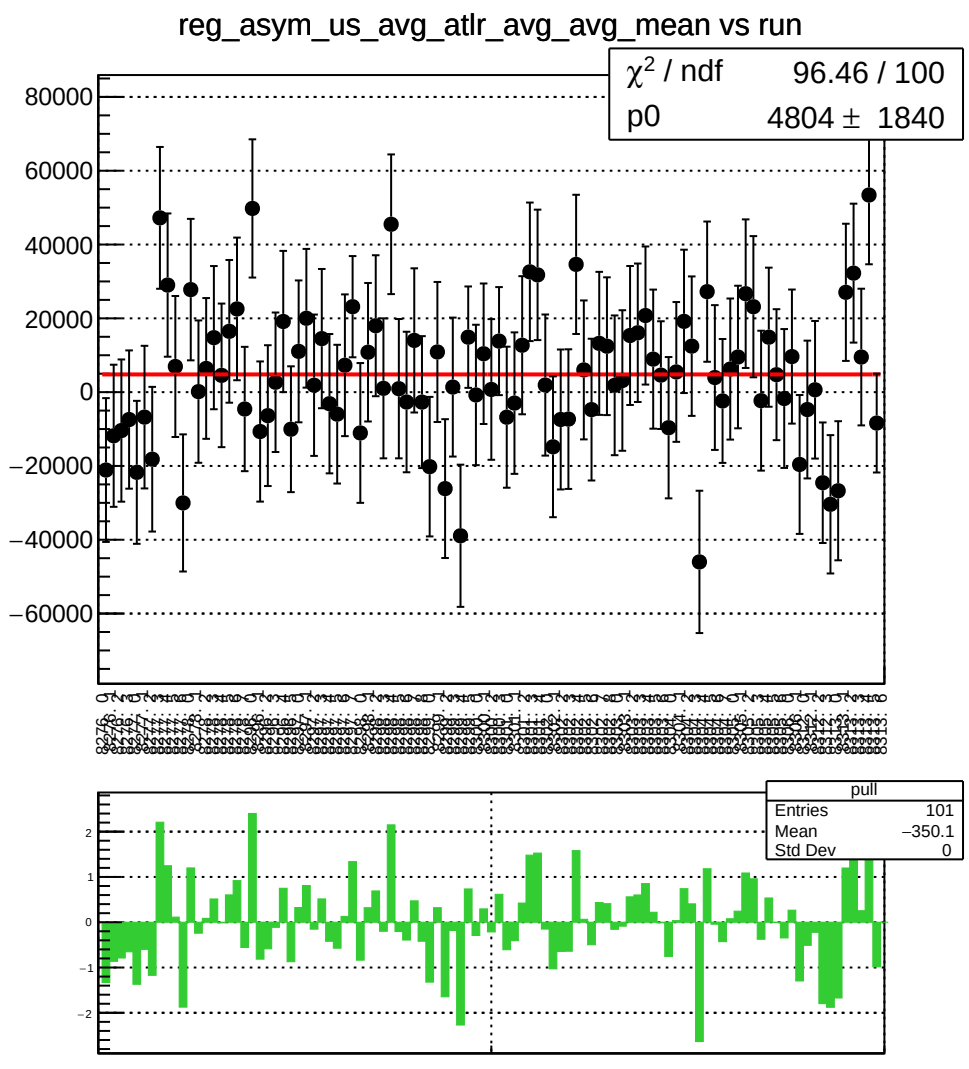

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.4 / 100
p0 0.5189 ± 0.2378
pull
Entries 101
Mean 1710
Std Dev 0

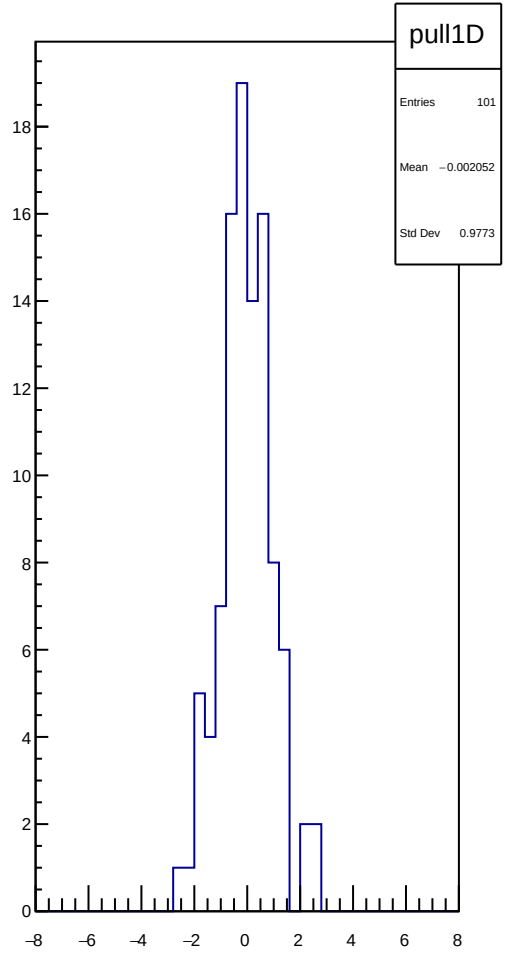

pull1D
Entries 101
Mean 0.002576
Std Dev 1.036

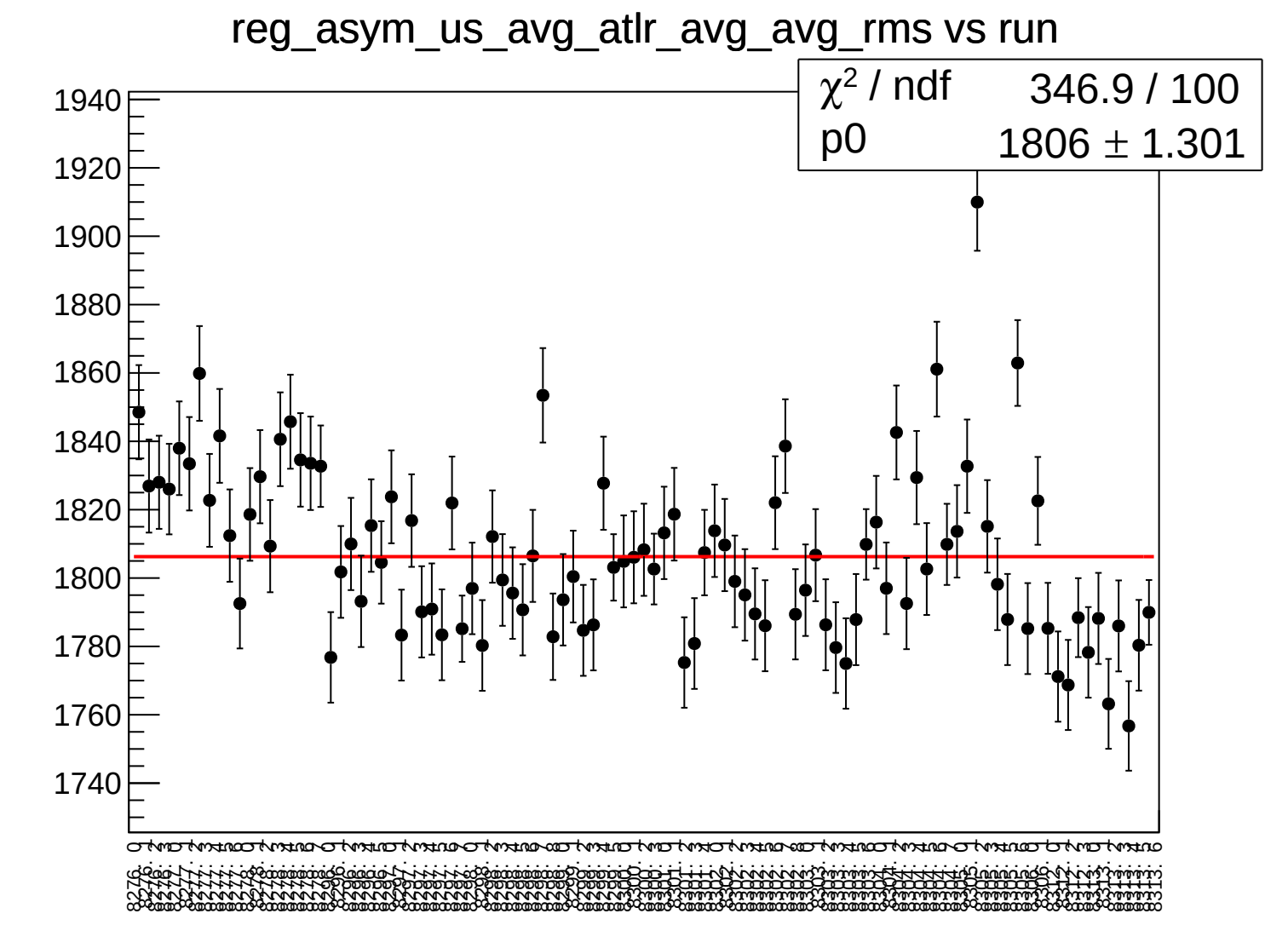

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.241e+04 / 100
p0 230.3 ± 0.1682
550
500
450
400
350
300
250
200
150

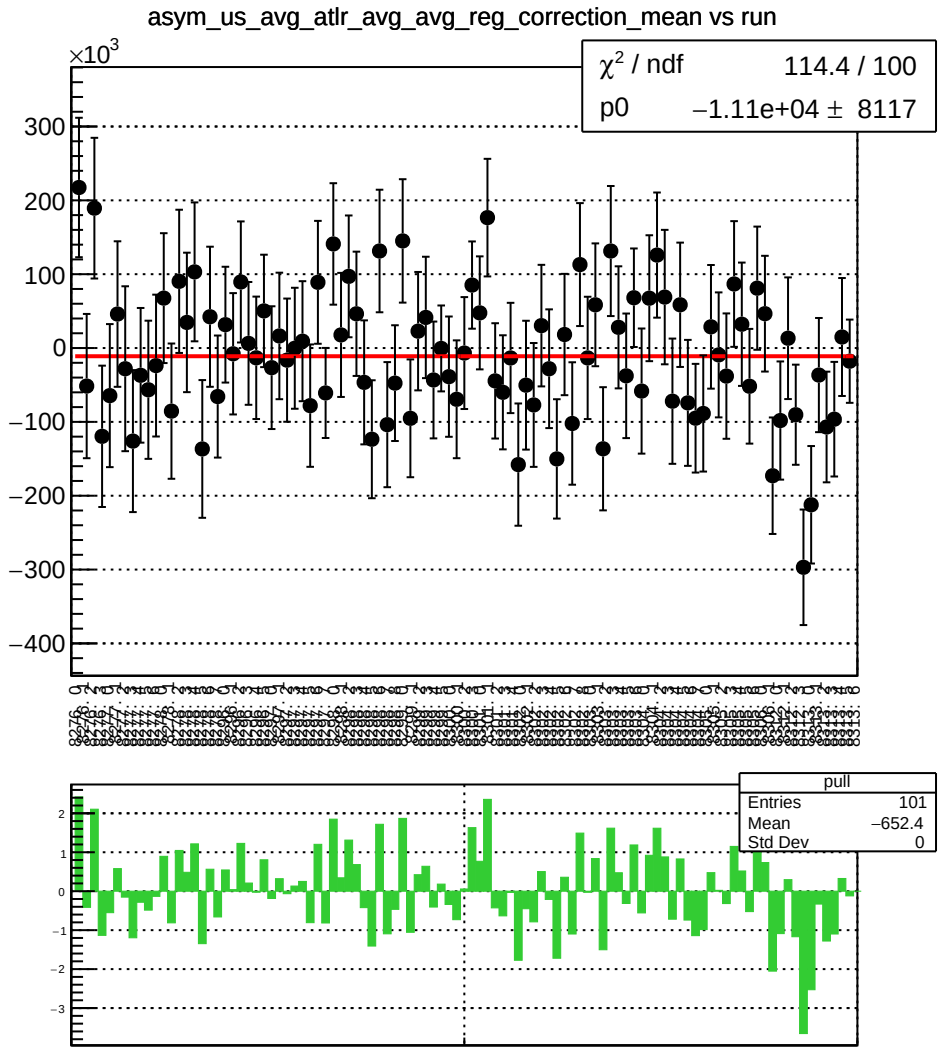

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 99.37 / 100
p0 −1.191e−12 ± 7.449e−13
0.05
0
−0.05
−0.1
−0.15
pull
Entries 101
Mean 109.9
Std Dev 14.63
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean −0.04891
Std Dev 0.9907
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

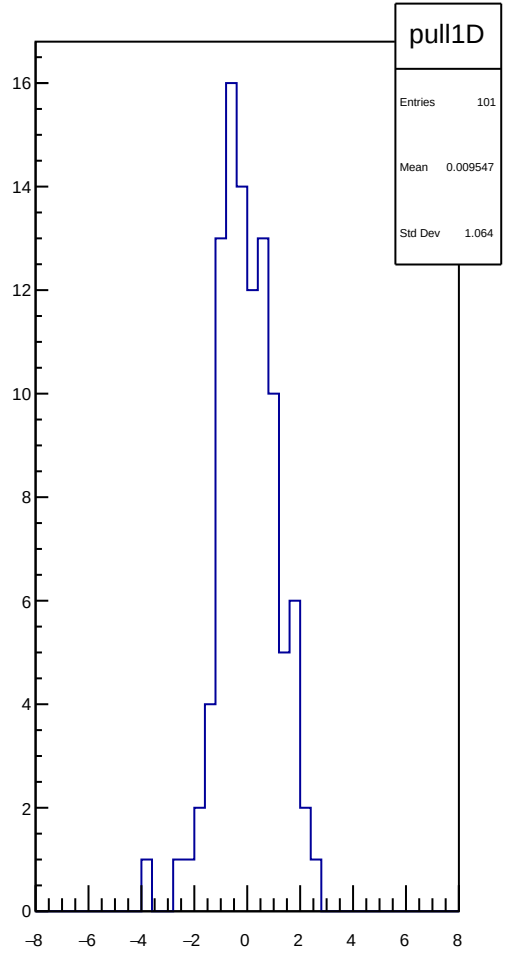

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.747e+05 / 100
p0 5.655e−10 ± 5.267e−13
5
4
3
2
1

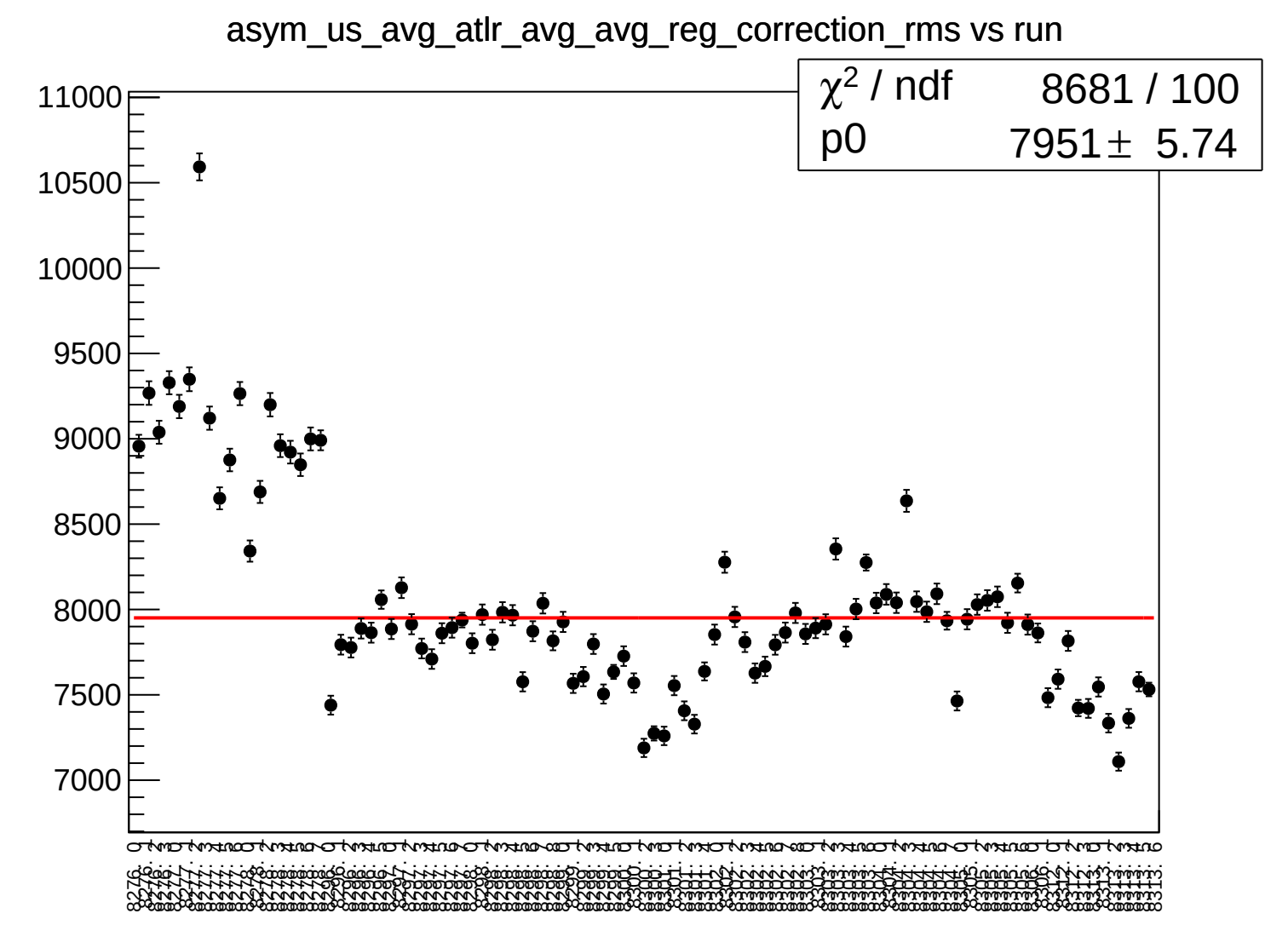

reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 96.46 / 100
p0 4804 ± 1840
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −350.1
Std Dev 0
2
1
0
−1
−2

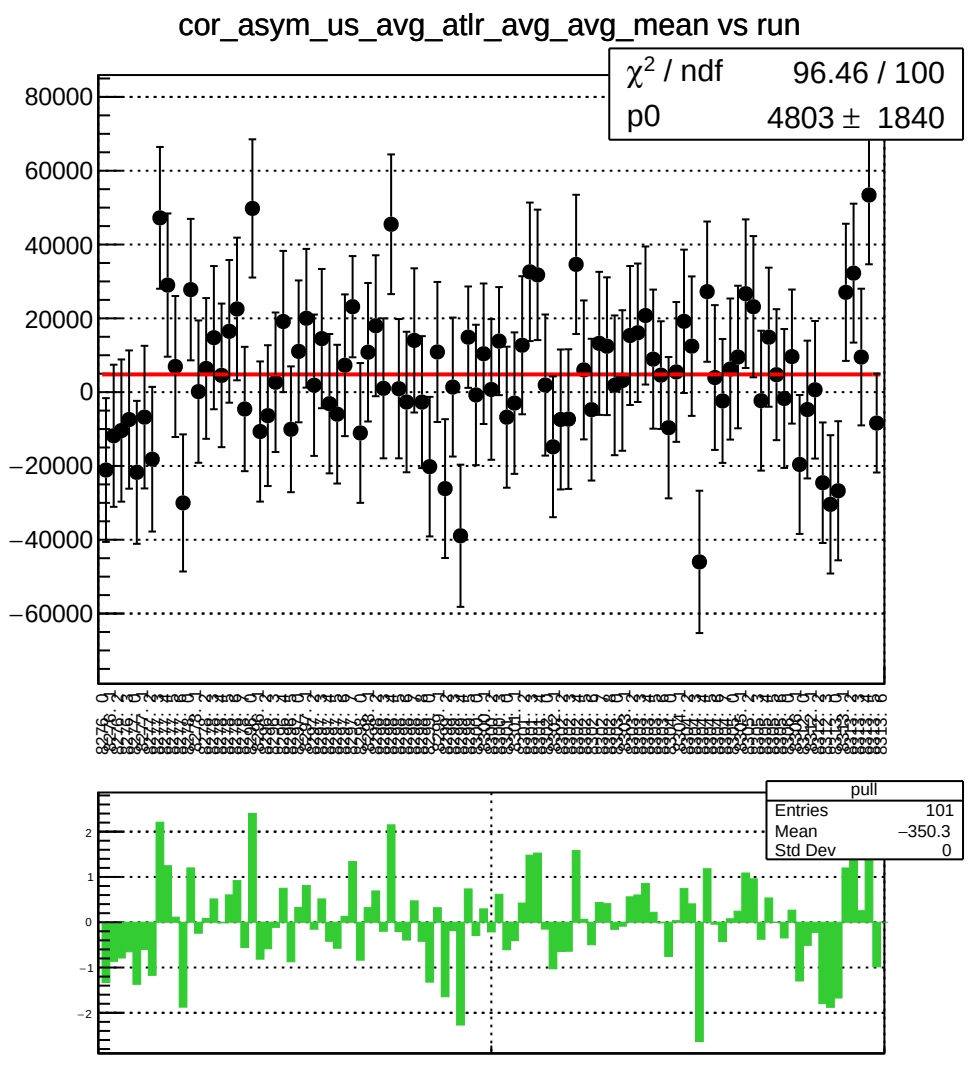

pull1D
Entries 101
Mean −0.002052
Std Dev 0.9773
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

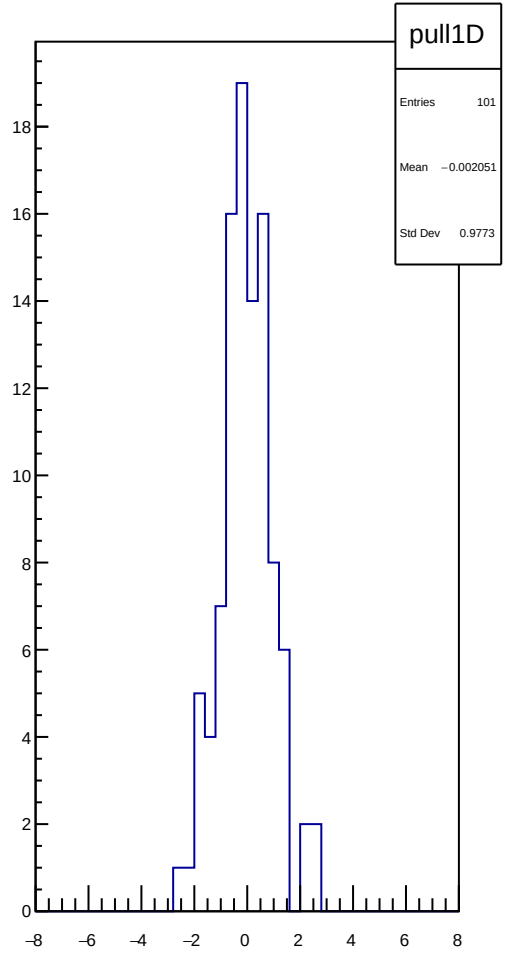

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 346.9 / 100
p0 1806 ± 1.301
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740

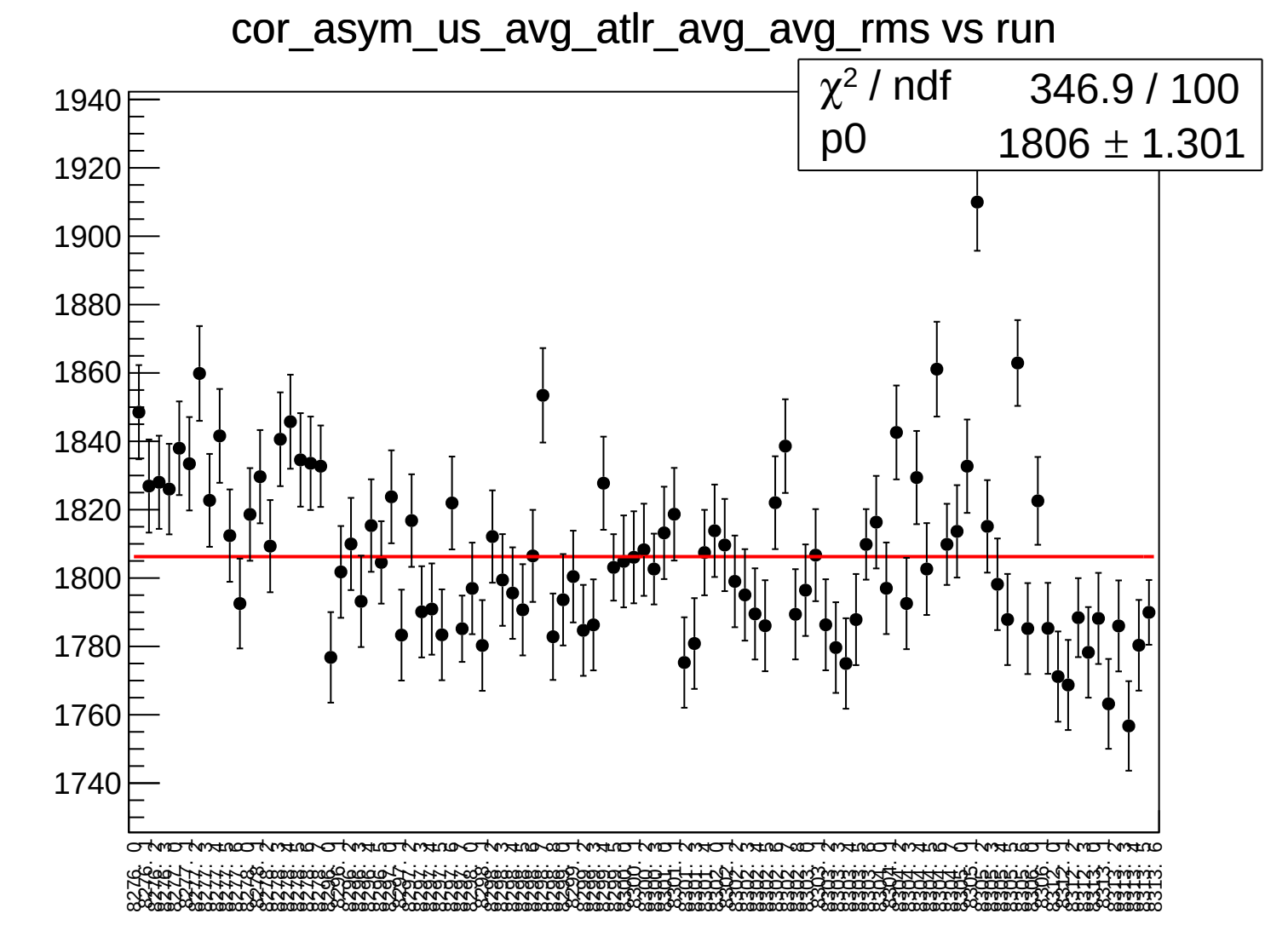

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 114.4 / 100
p0 −1.11e+04 ± 8117
300
200
100
0
−100
−200
−300
−400
pull
Entries 101
Mean −652.4
Std Dev 0
2
1
0
−1
−2
−3

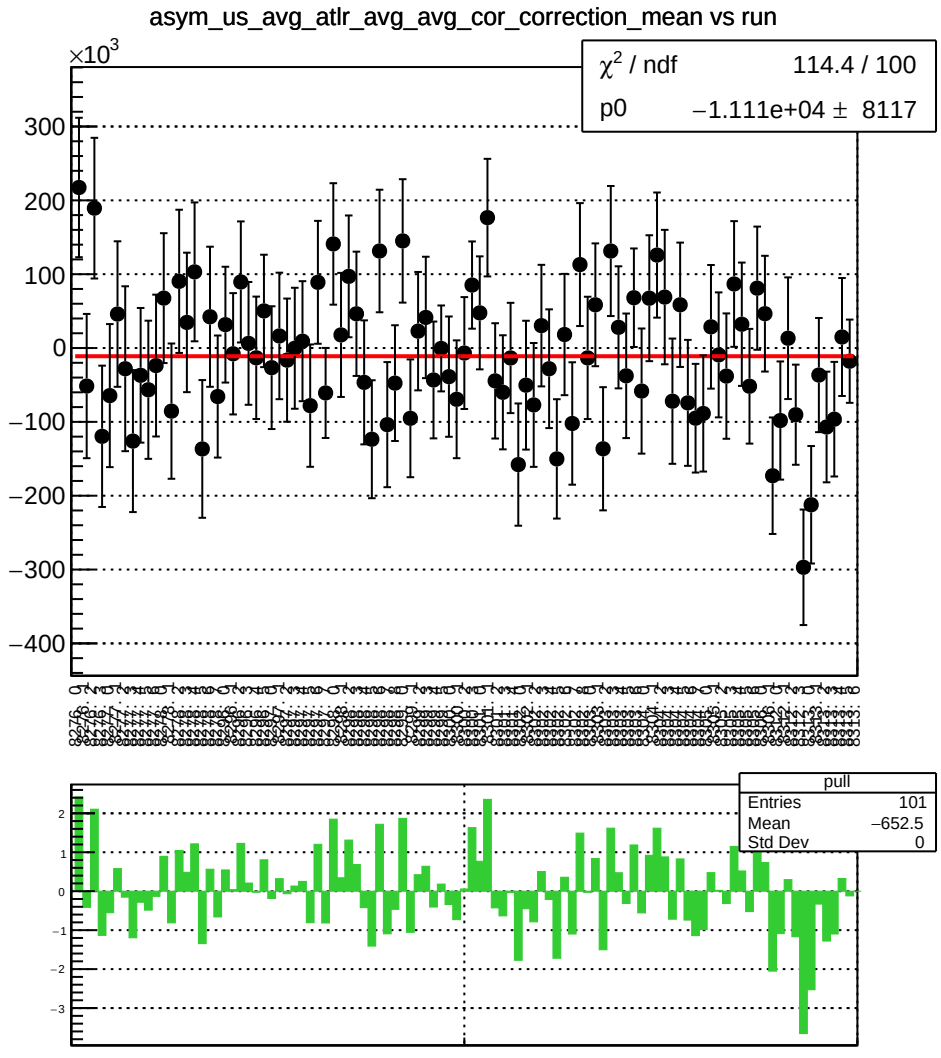

pull1D
Entries 101
Mean 0.009547
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

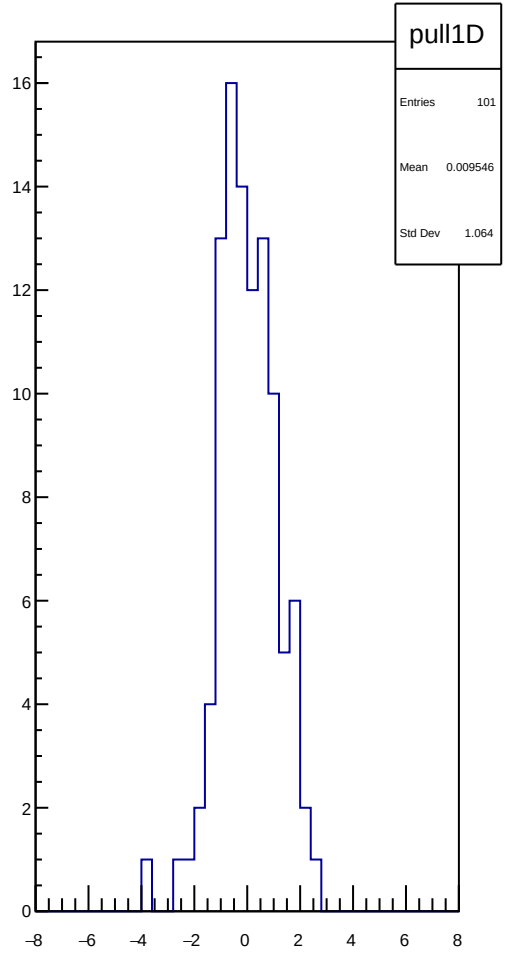

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ² / ndf 8681 / 100
p0 7951 ± 5.74
11000
10500
10000
9500
9000
8500
8000
7500
7000

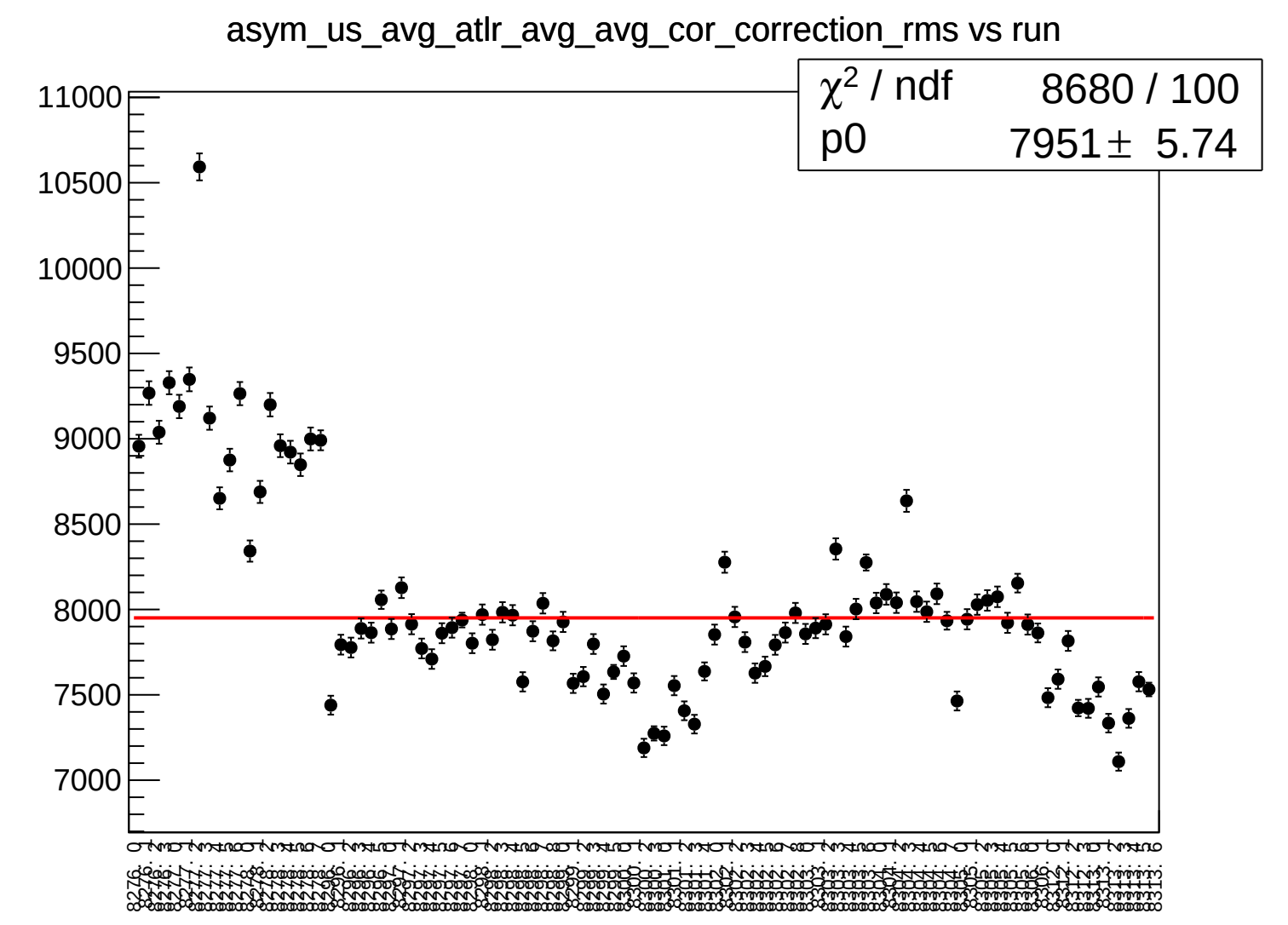

cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 96.46 / 100
p0 4803 ± 1840
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −350.3
Std Dev 0
2
1
0
−1
−2

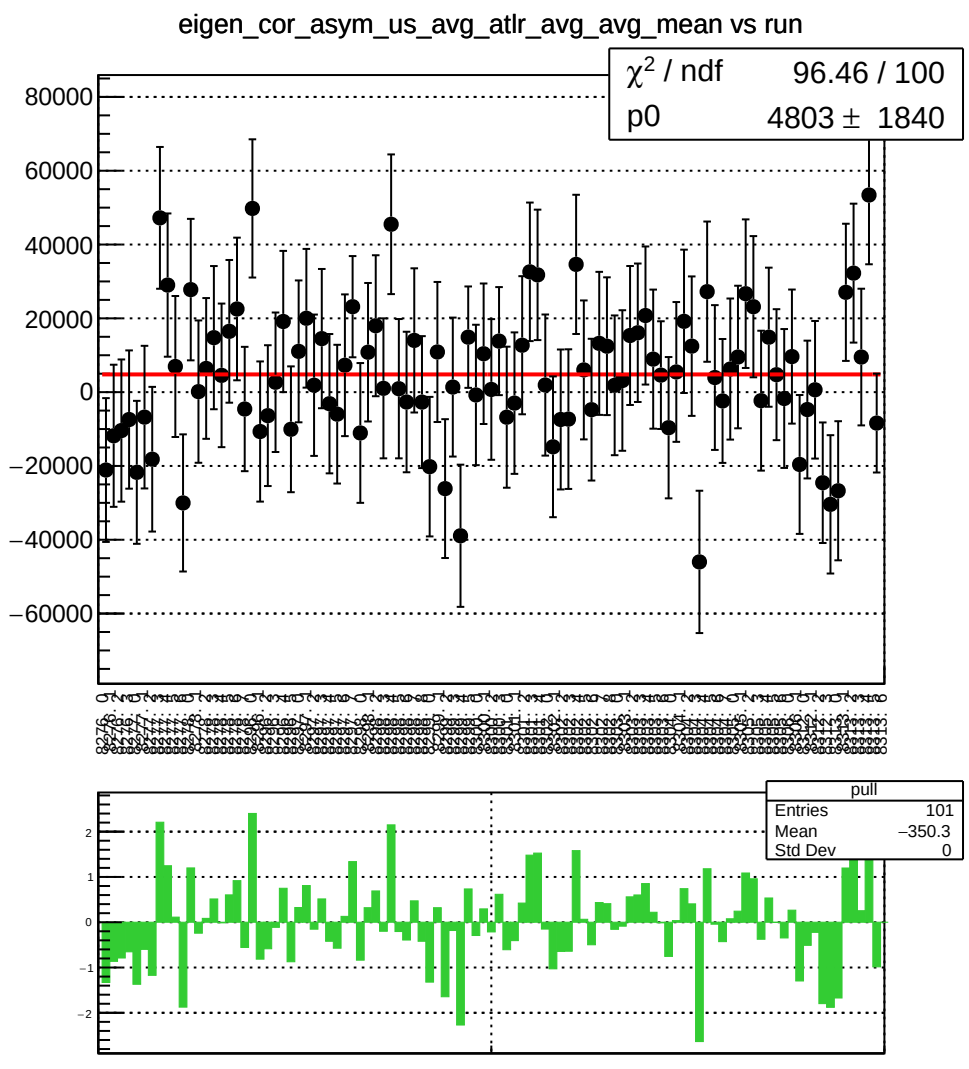

pull1D
Entries 101
Mean −0.002051
Std Dev 0.9773
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

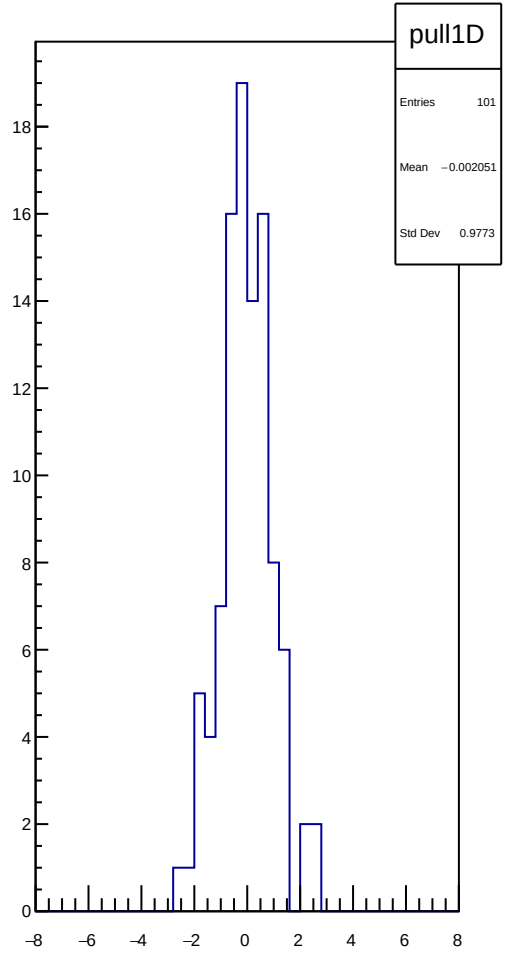

cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 346.9 / 100
p0 1806 ± 1.301
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740

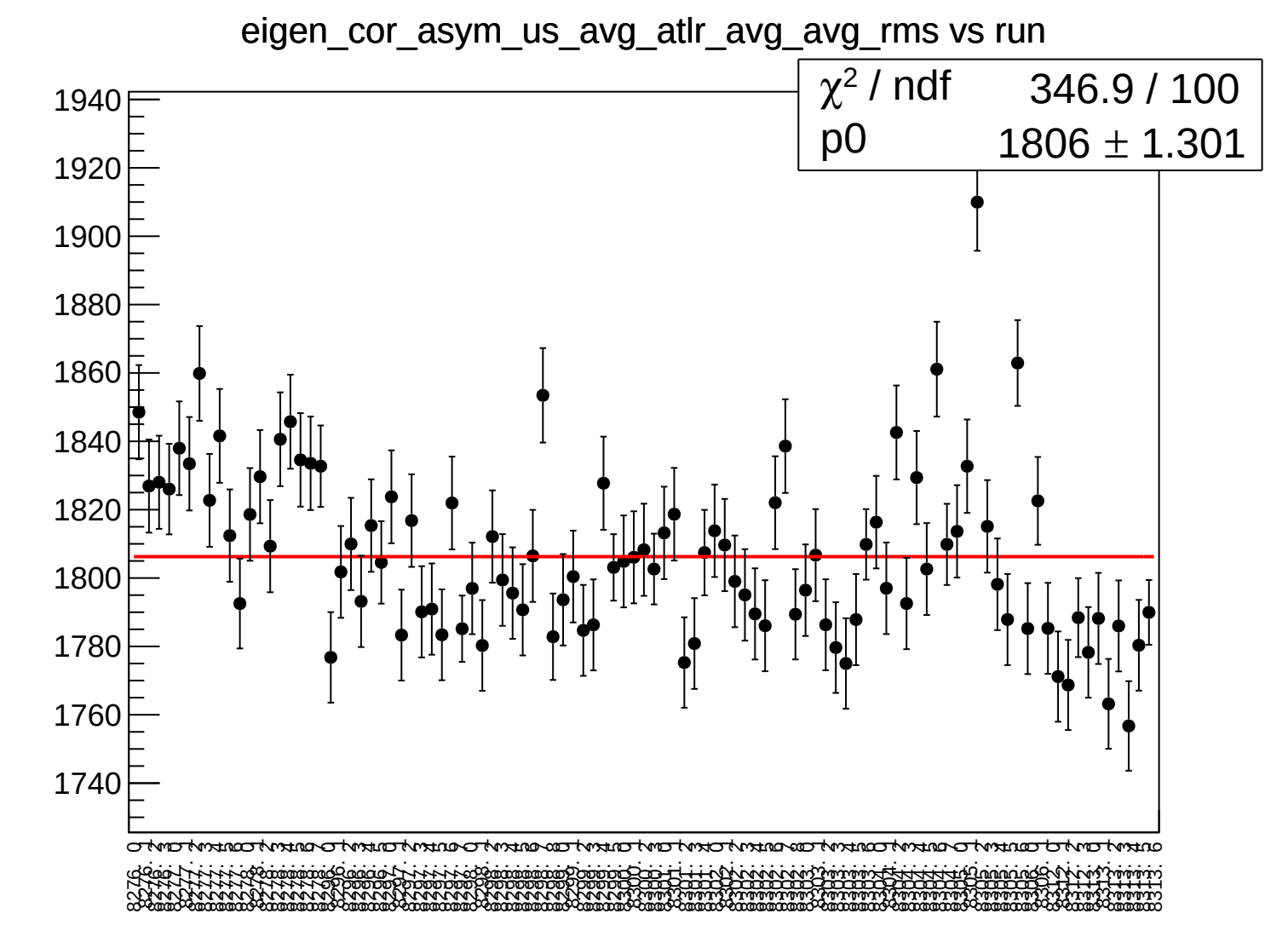

asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 114.4 / 100
p0 −1.111e+04 ± 8117
300
200
100
0
−100
−200
−300
−400
pull
Entries 101
Mean −652.5
Std Dev 0
2
1
0
−1
−2
−3

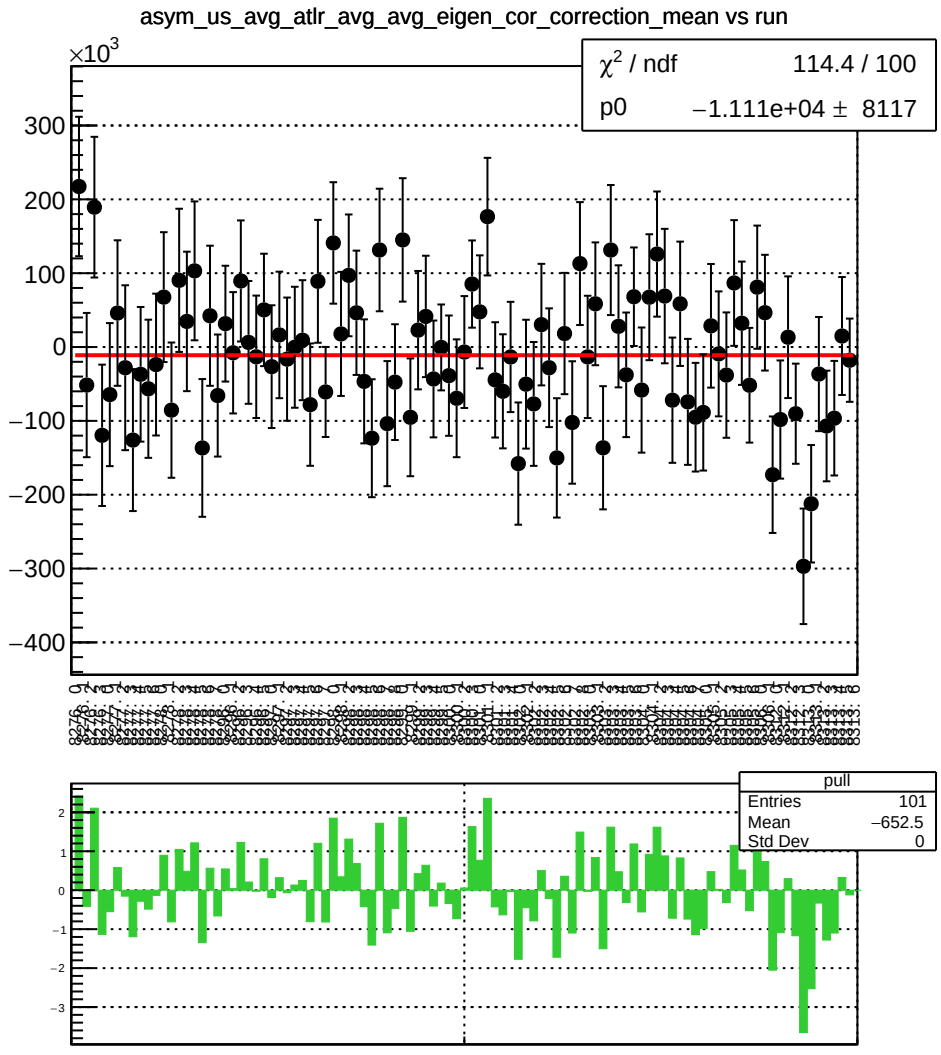

pull1D
Entries 101
Mean 0.009546
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

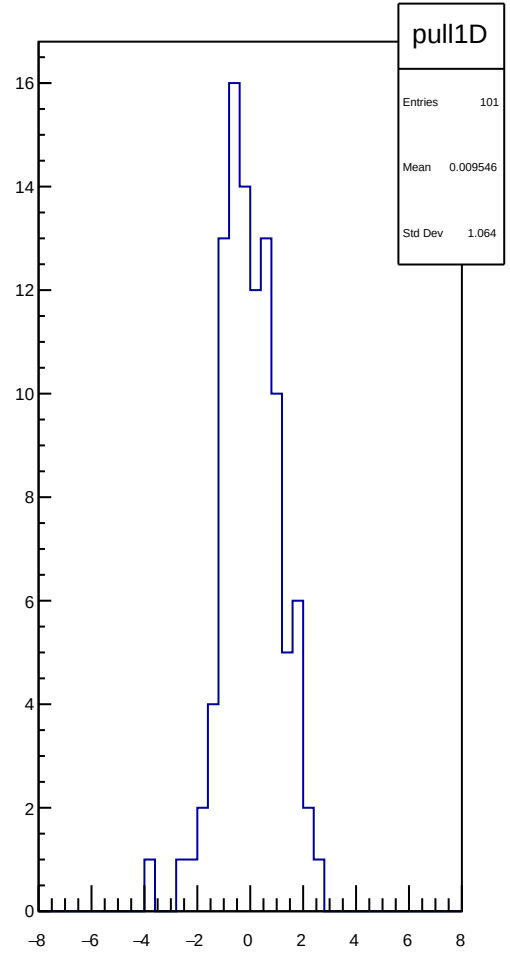

asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ² / ndf 8680 / 100
p0 7951 ± 5.74
11000
10500
10000
9500
9000
8500
8000
7500
7000

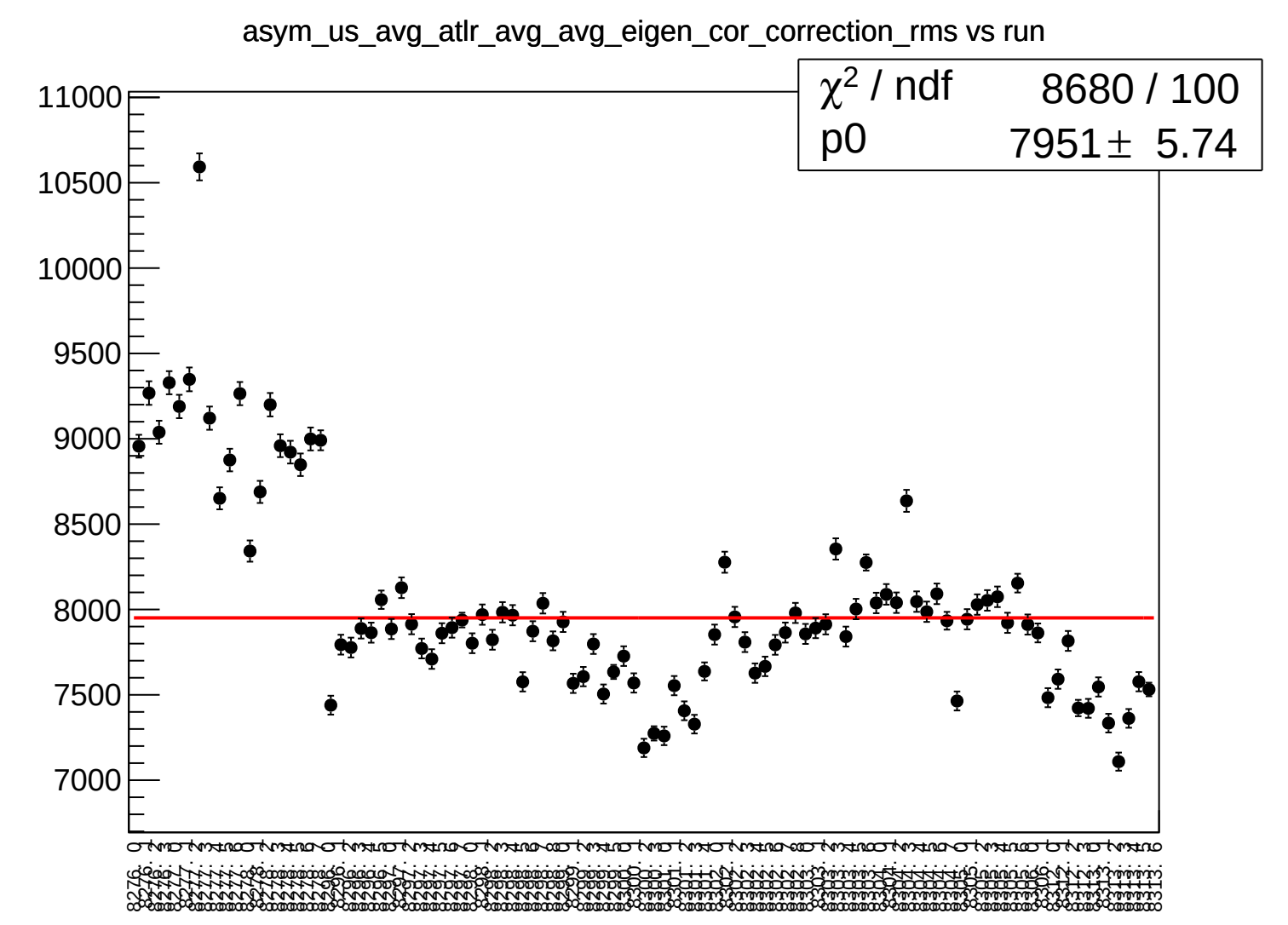

eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 96.46 / 100
p0 4803 ± 1840
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −350.3
Std Dev 0
2
1
0
−1
−2

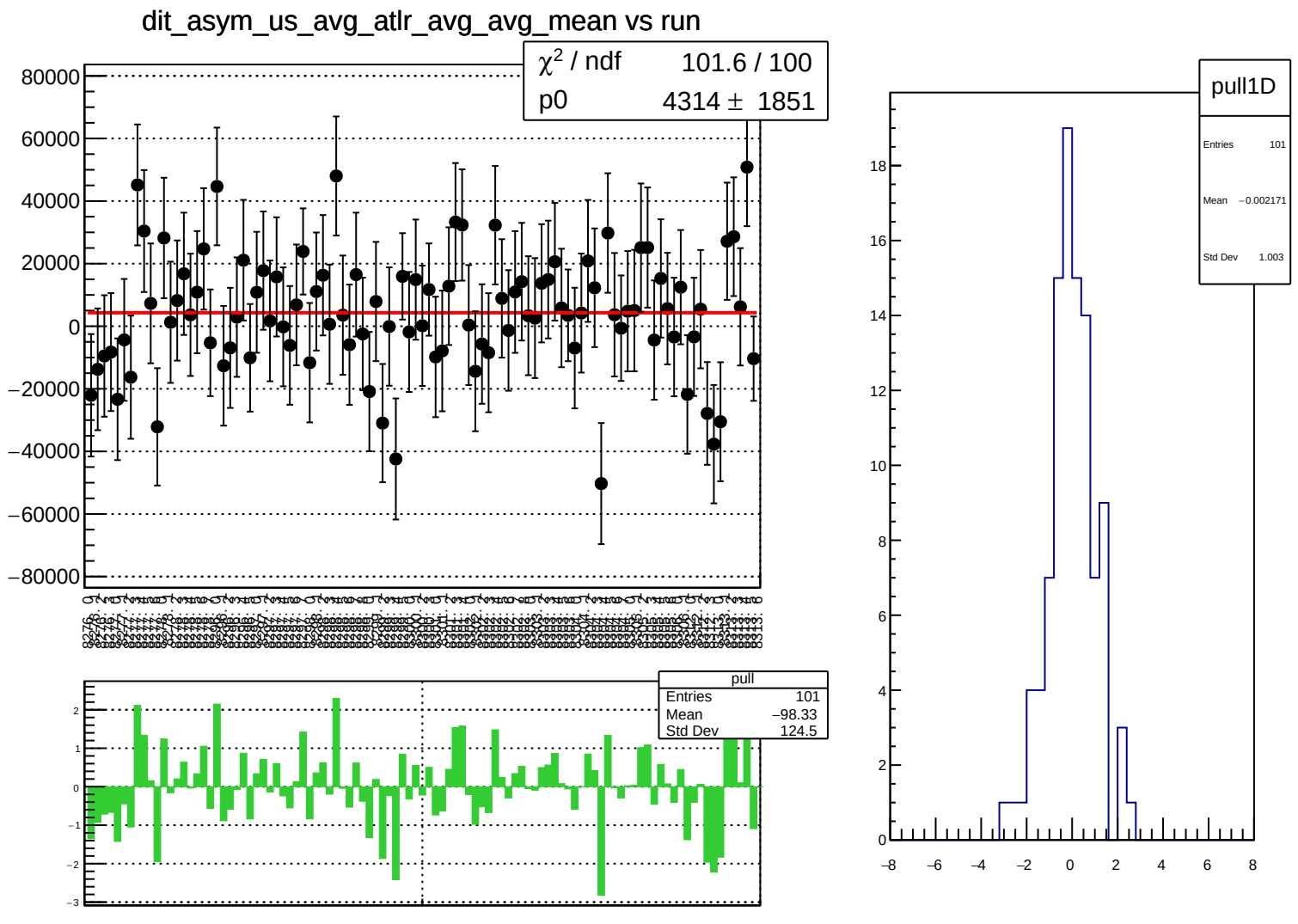

pull1D
Entries 101
Mean −0.002051
Std Dev 0.9773
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

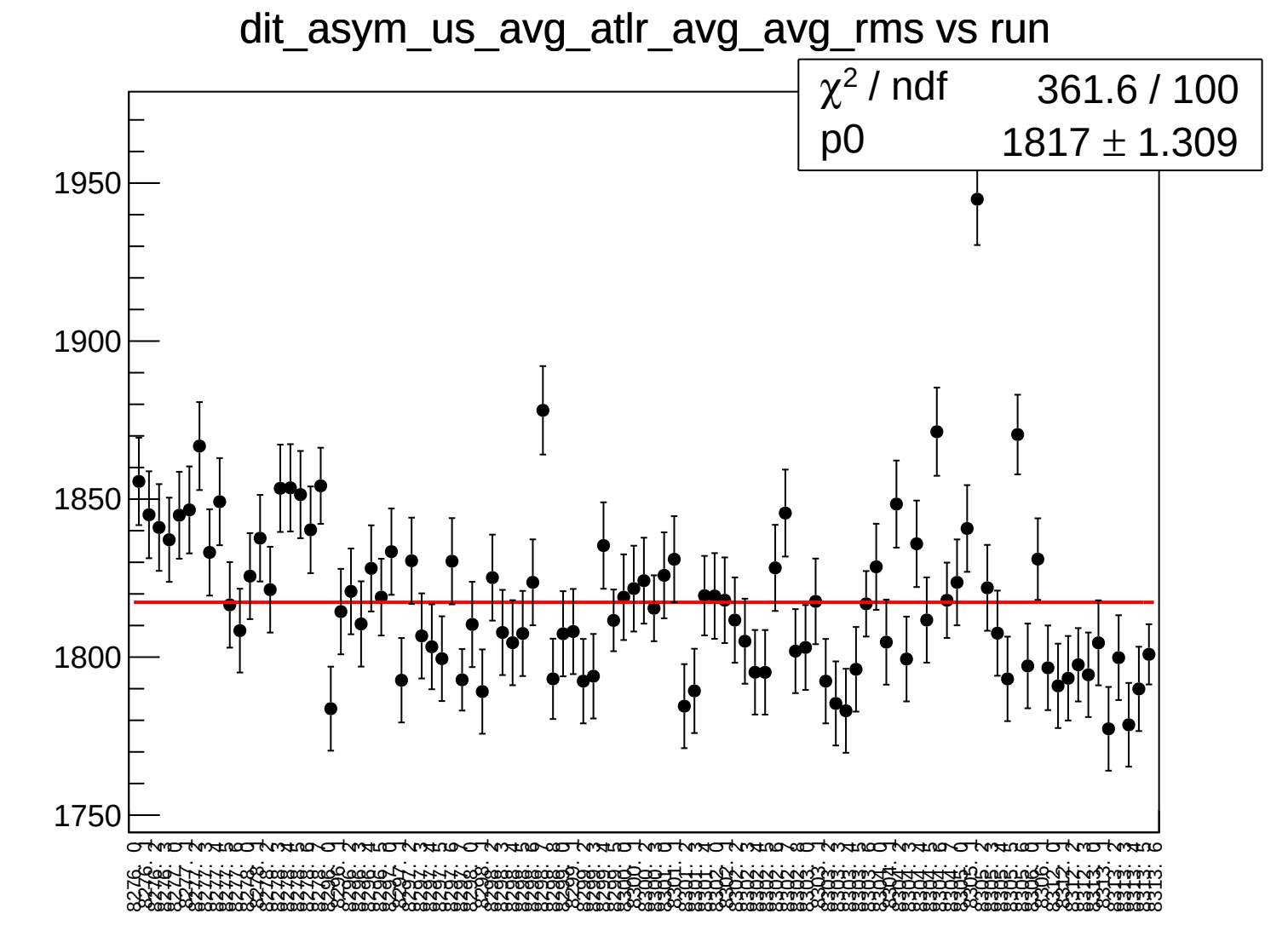

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 346.9 / 100
p0 1806 ± 1.301
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740

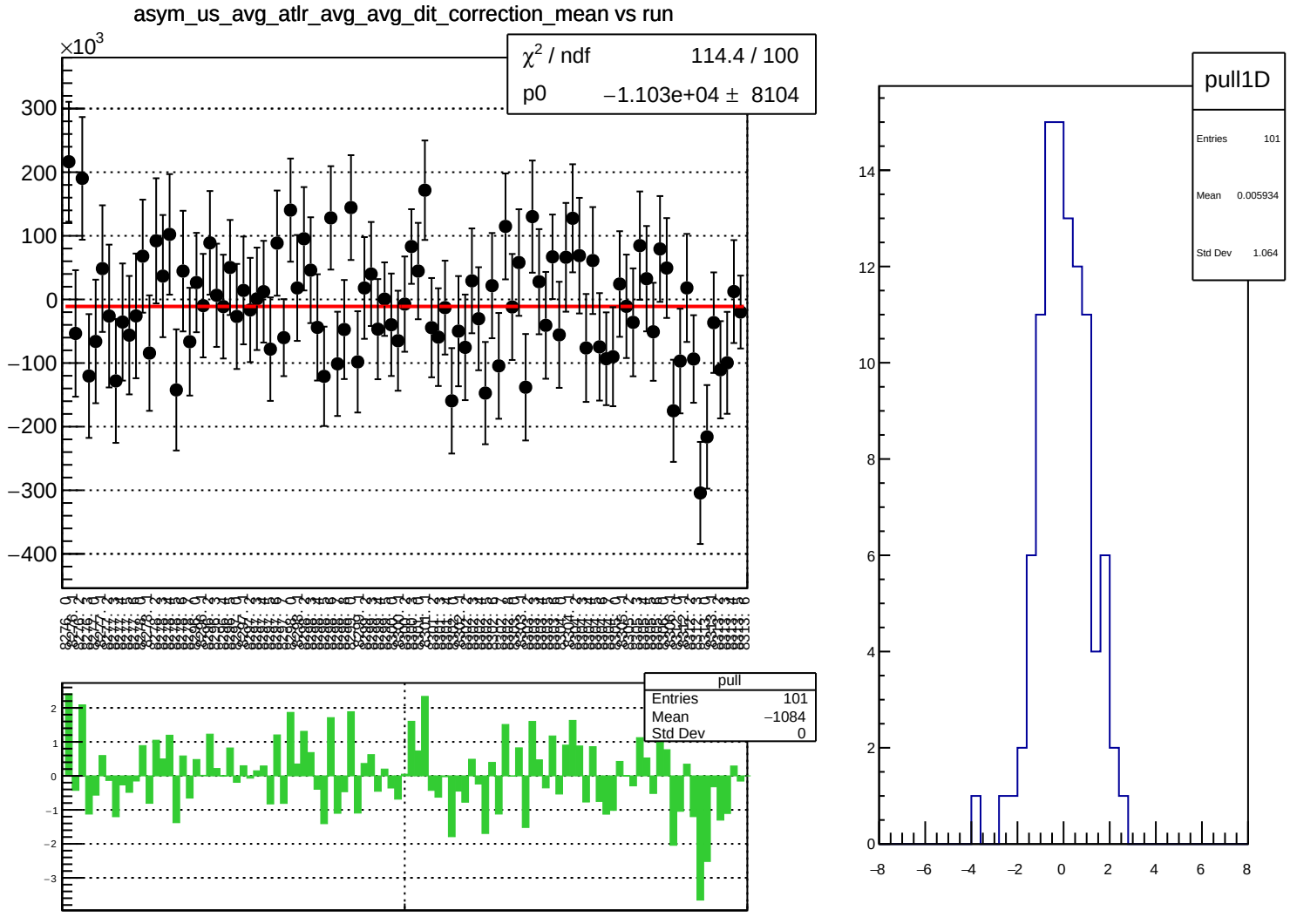

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 114.4 / 100
p0 −1.111e+04 ± 8117
300
200
100
0
−100
−200
−300
−400
pull
Entries 101
Mean −652.5
Std Dev 0
2
1
0
−1
−2
−3

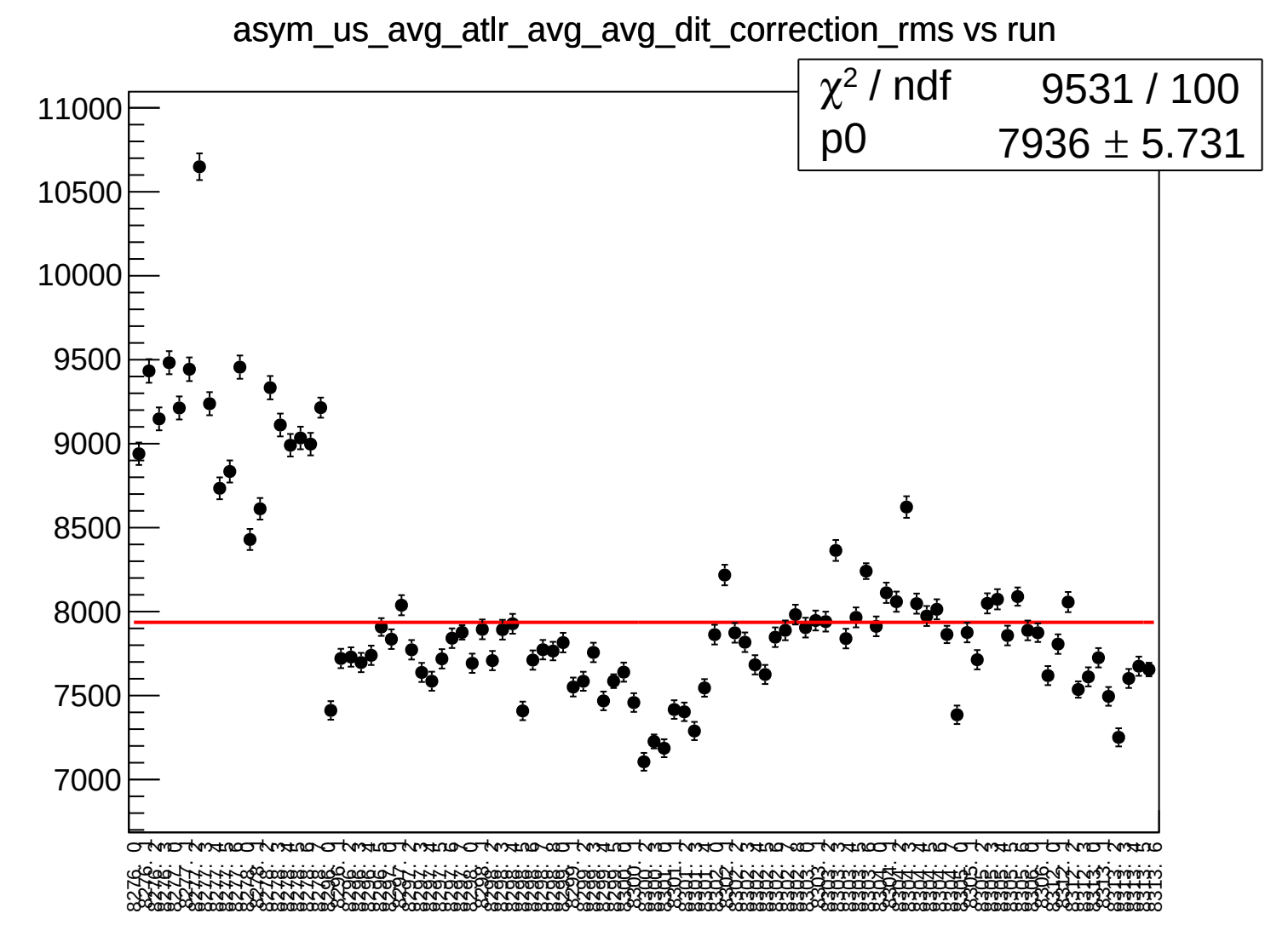

pull1D
Entries 101
Mean 0.009546
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

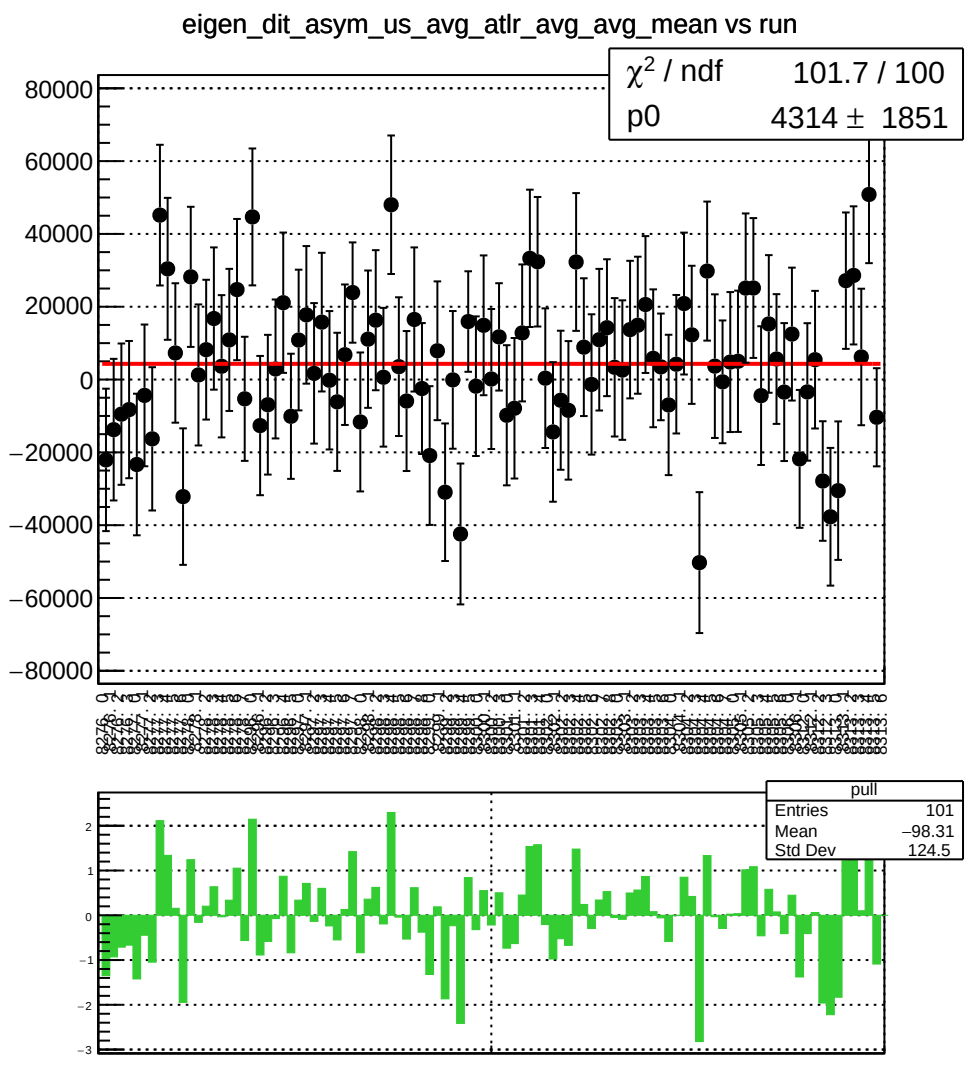

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 8680 / 100
p0 7951 ± 5.74
11000
10500
10000
9500
9000
8500
8000
7500
7000

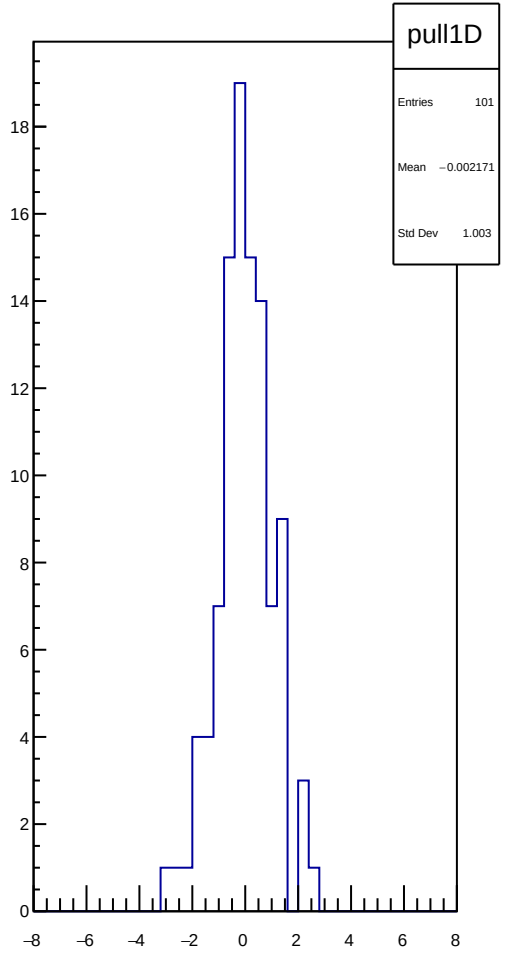

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 101.6 / 100
p0 4314 ± 1851
pull
Entries 101
Mean −98.33
Std Dev 124.5
pull1D
Entries 101
Mean −0.002171
Std Dev 1.003

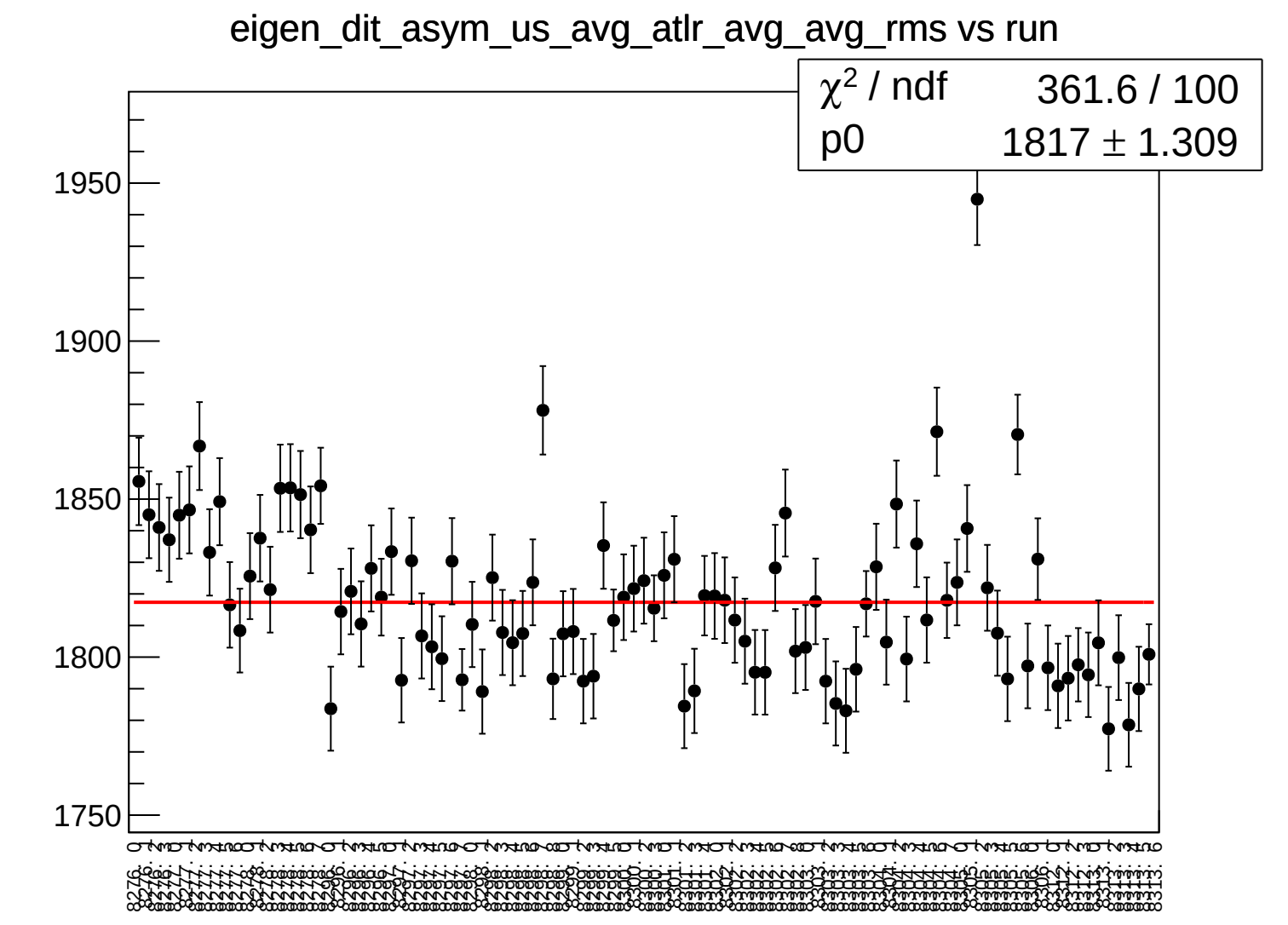

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 361.6 / 100
p0 1817 ± 1.309
1950
1900
1850
1800
1750

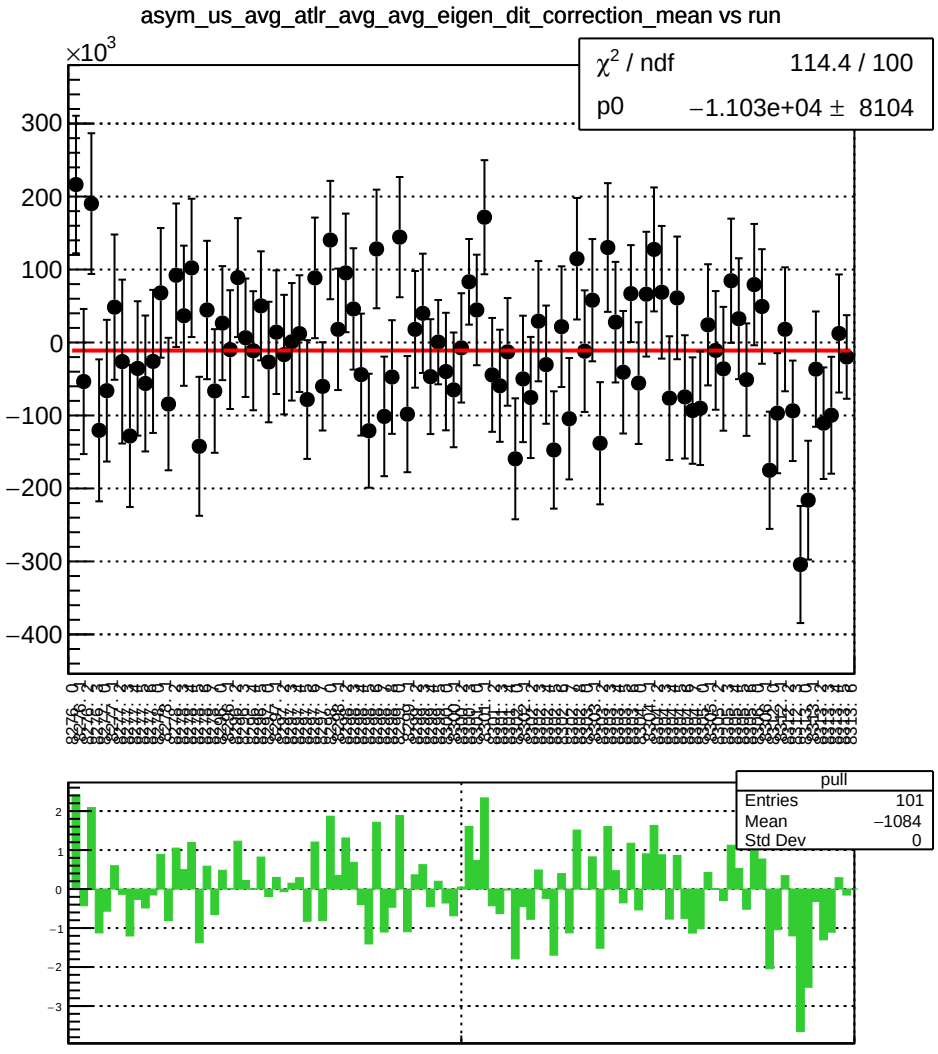

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 114.4 / 100
p0 −1.103e+04 ± 8104
300
200
100
0
−100
−200
−300
−400
pull
Entries 101
Mean −1084
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.005934
Std Dev 1.064
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

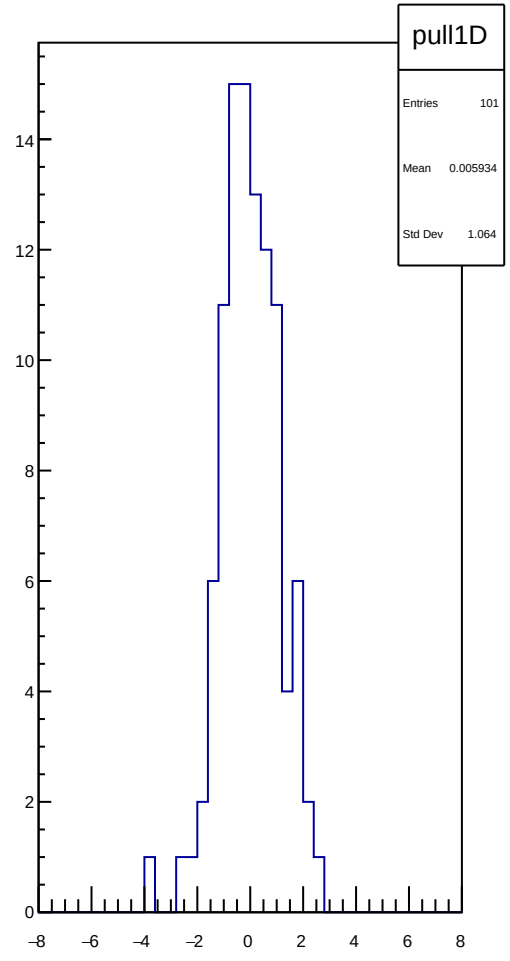

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ^2 / ndf 9531 / 100
p0 7936 ± 5.731
11000
10500
10000
9500
9000
8500
8000
7500
7000

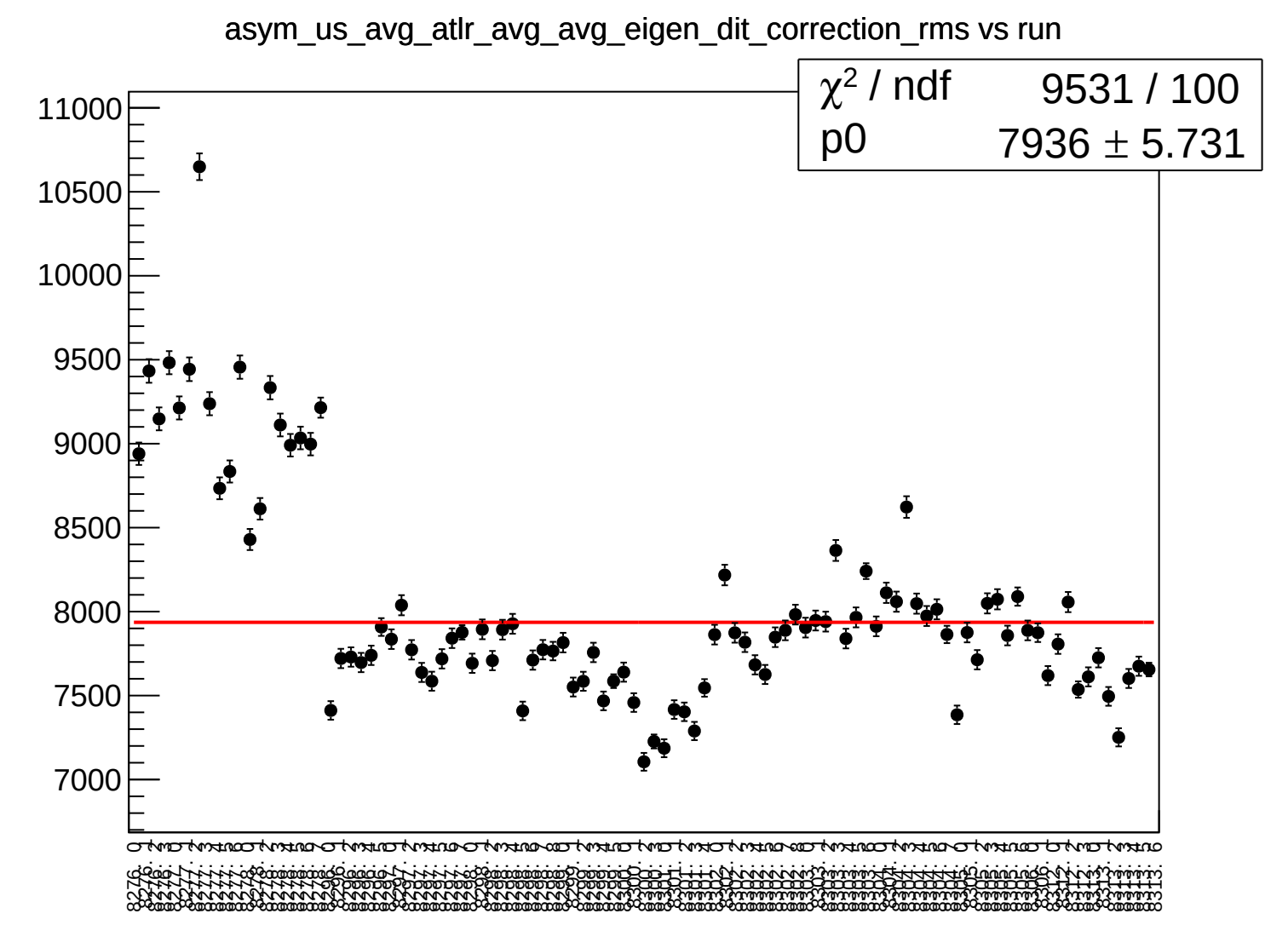

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 101.7 / 100
p0 4314 ± 1851
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 101
Mean −98.31
Std Dev 124.5
2
1
0
−1
−2
−3

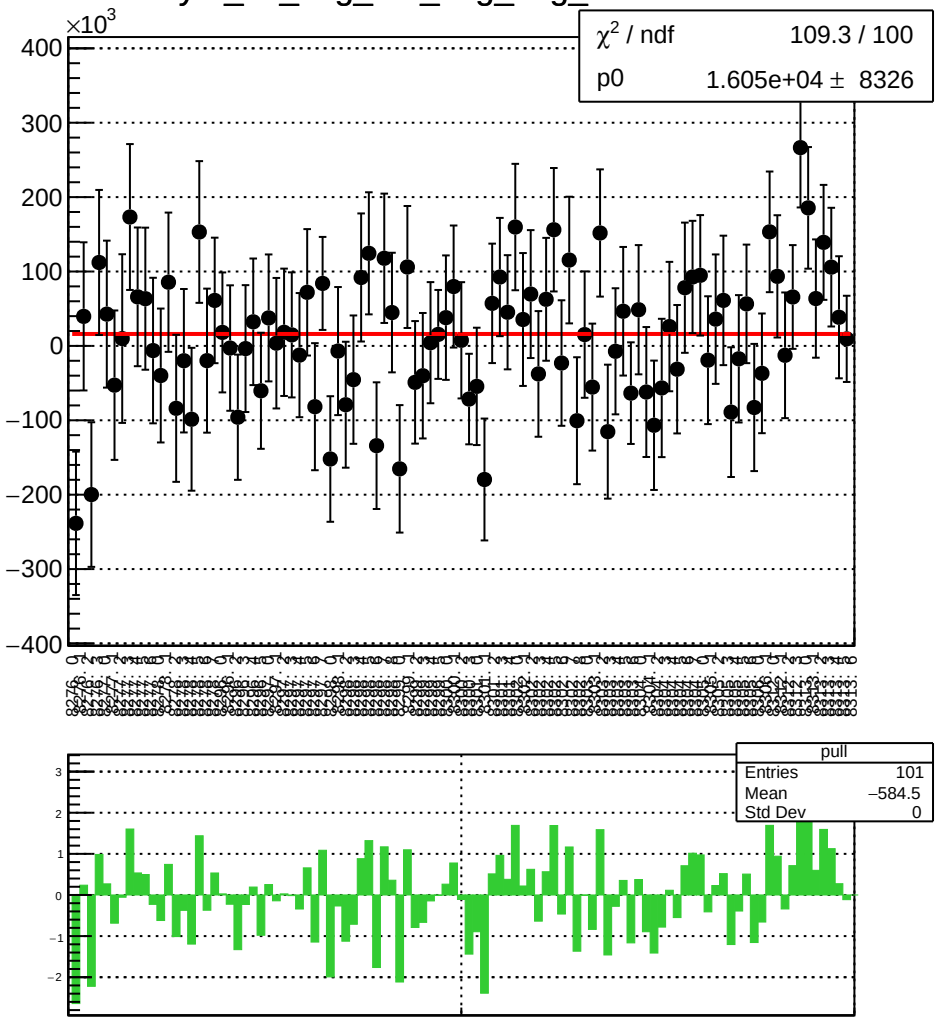

pull1D
Entries 101
Mean −0.002171
Std Dev 1.003
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

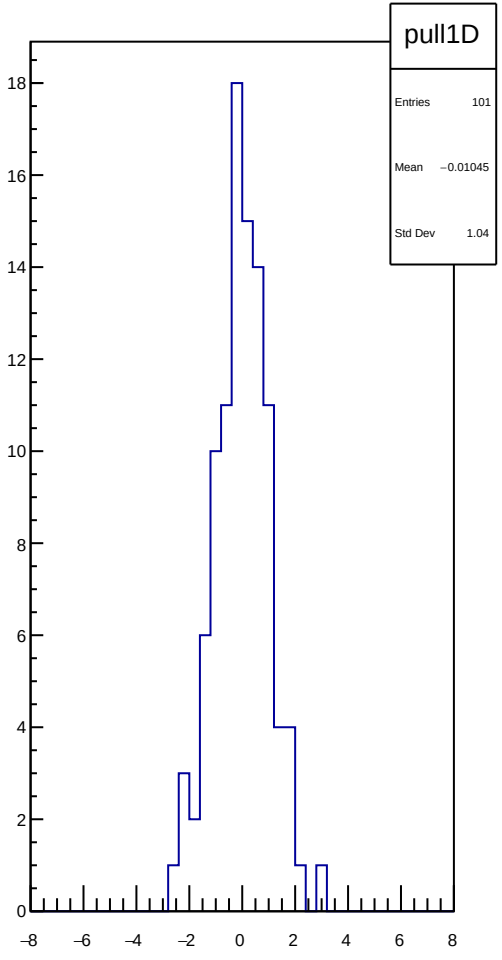

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 361.6 / 100
p0 1817 ± 1.309
1950
1900
1850
1800
1750

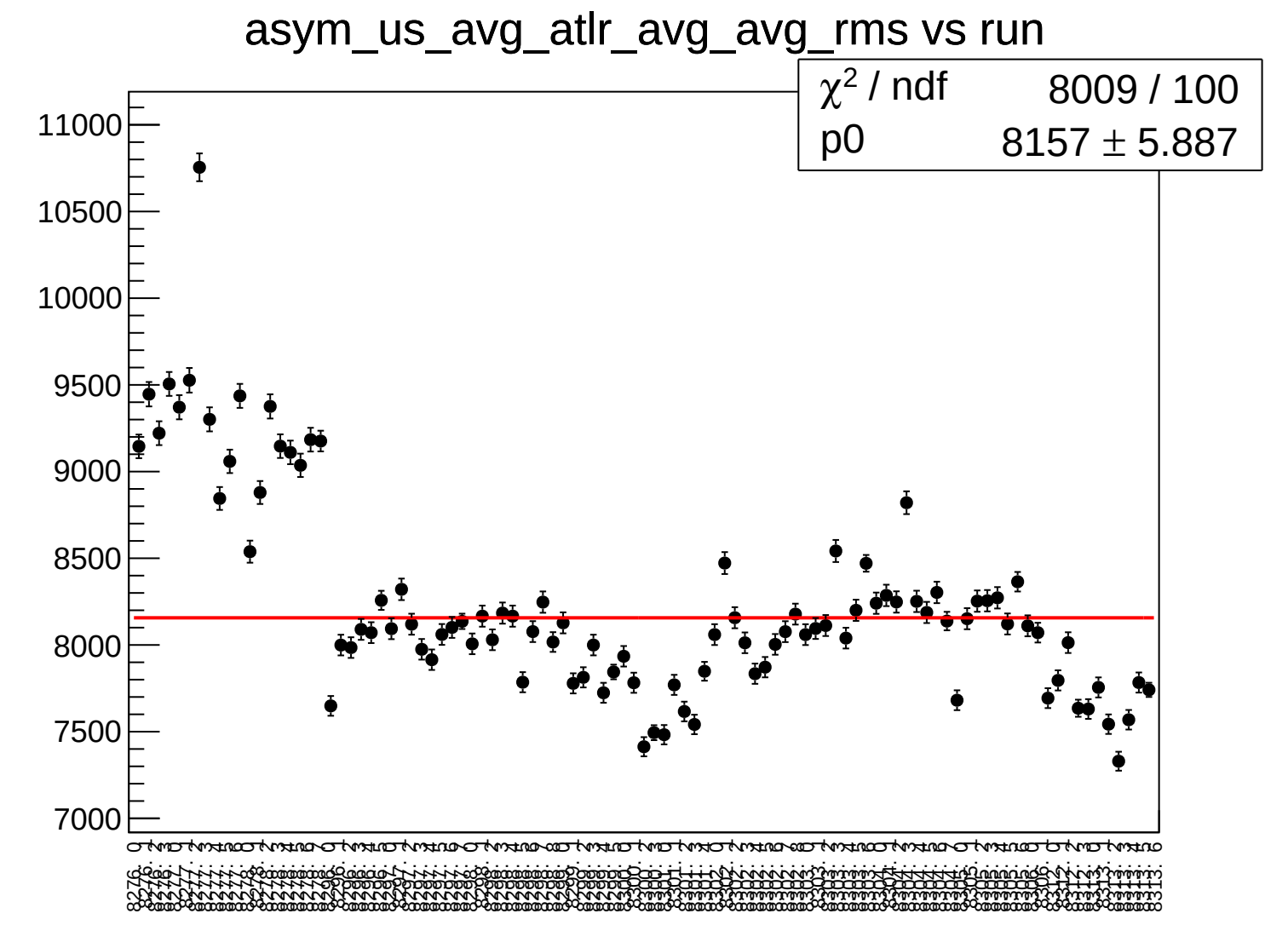

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 114.4 / 100
p0 −1.103e+04 ± 8104
300
200
100
0
−100
−200
−300
−400
pull
Entries 101
Mean −1084
Std Dev 0
2
1
0
−1
−2
−3

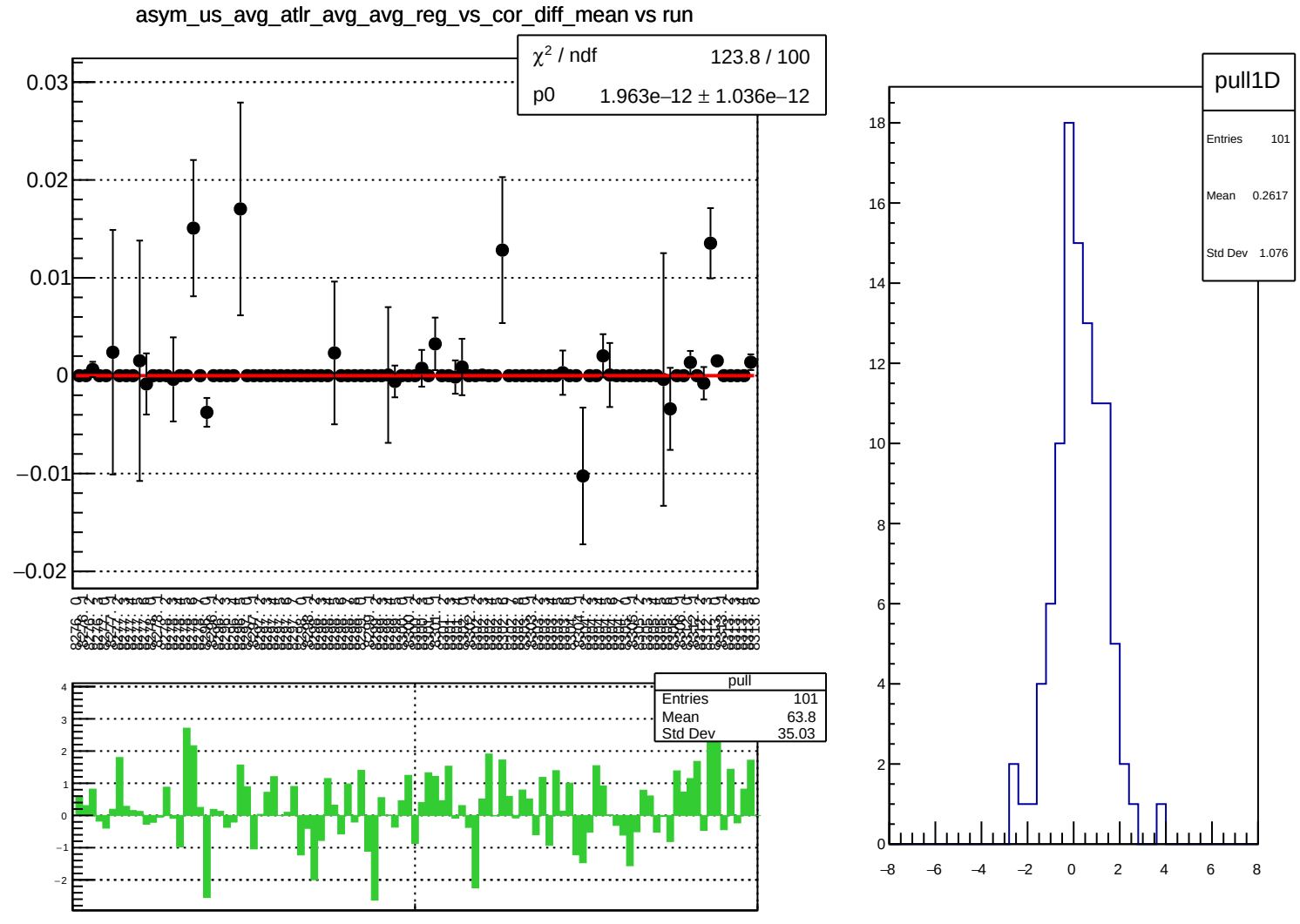

pull1D
Entries 101
Mean 0.005934
Std Dev 1.064
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

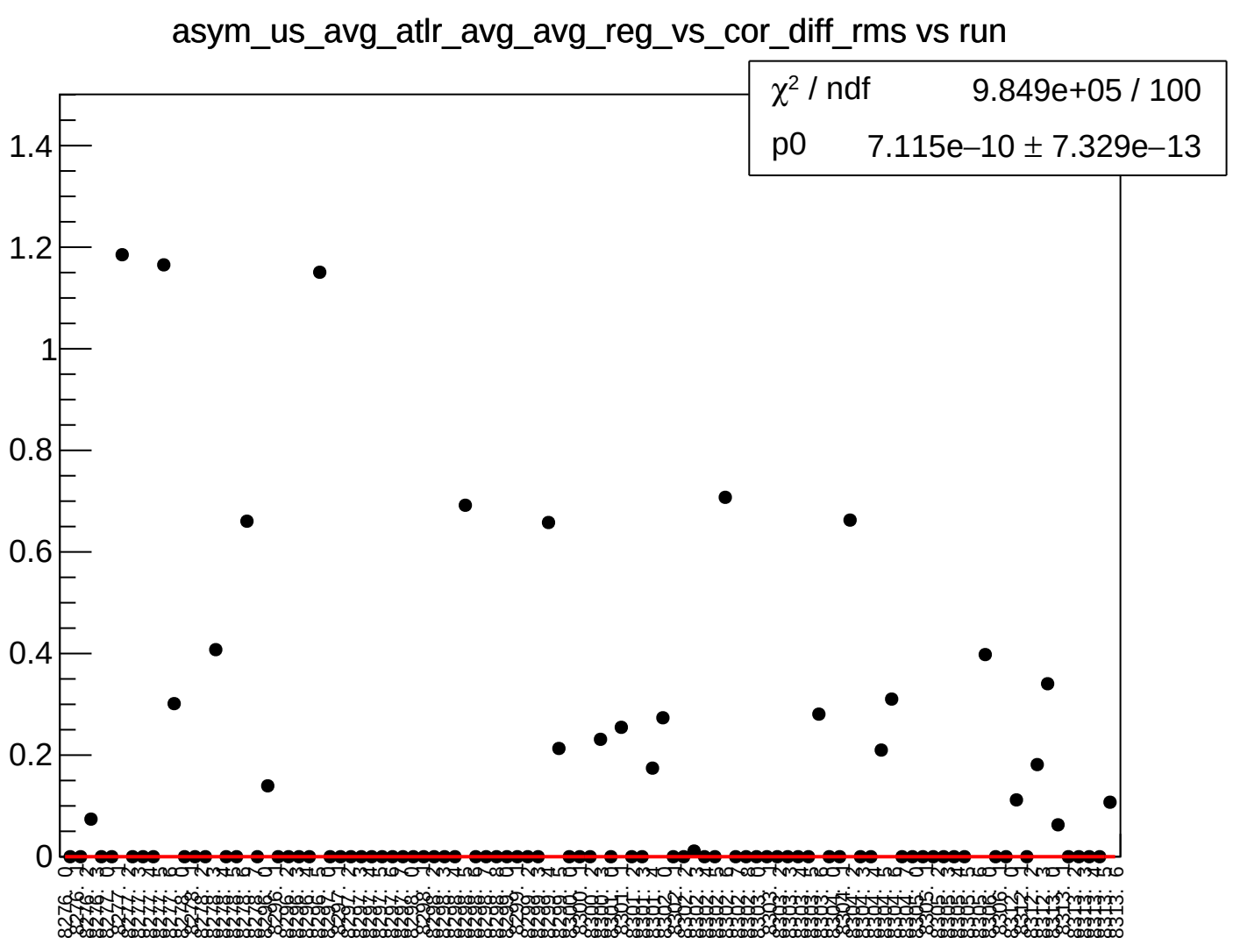

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 9531 / 100
p0 7936 ± 5.731
11000
10500
10000
9500
9000
8500
8000
7500
7000

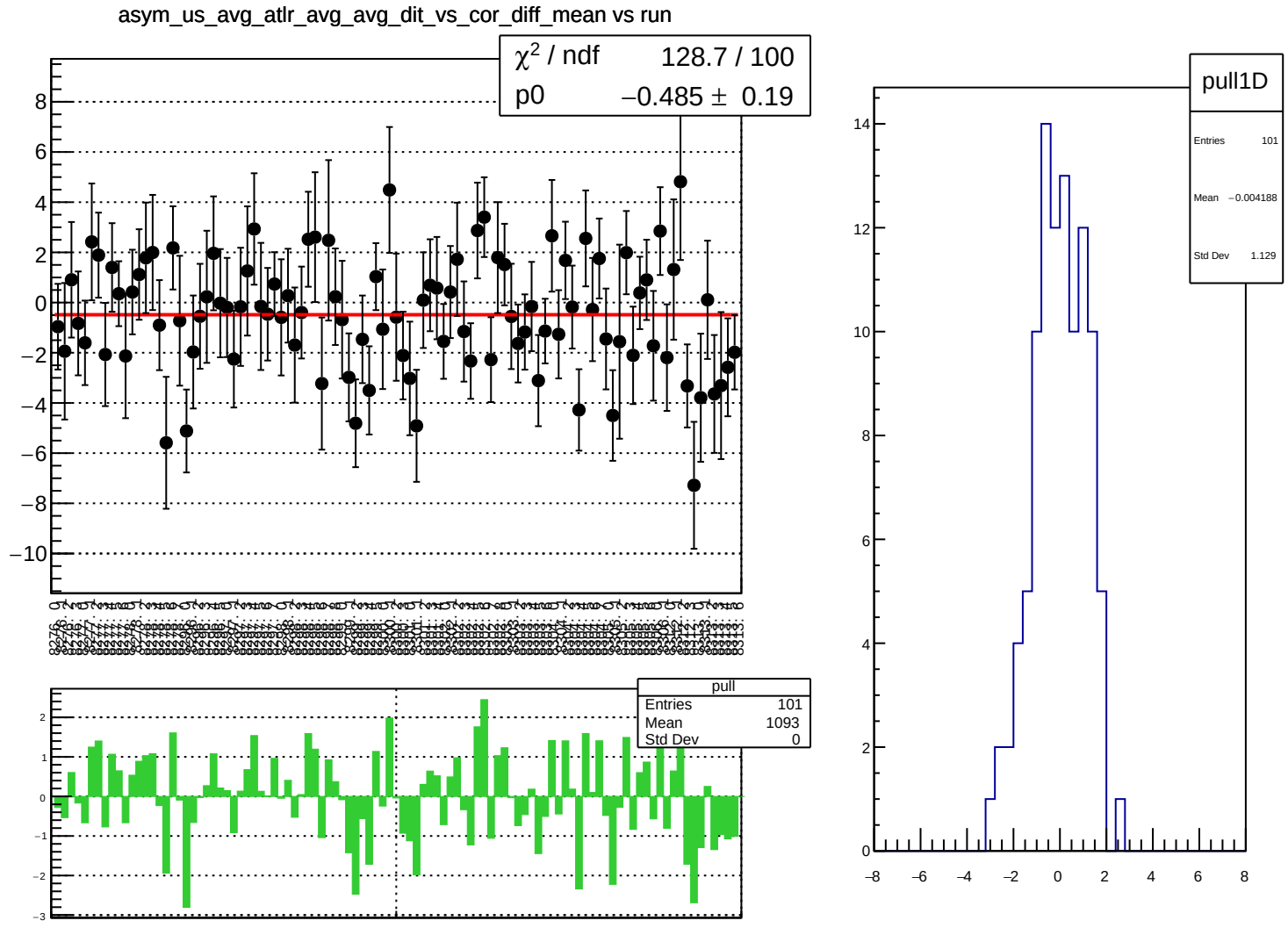

asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ² / ndf 109.3 / 100
p0 1.605e+04 ± 8326
pull
Entries 101
Mean −584.5
Std Dev 0

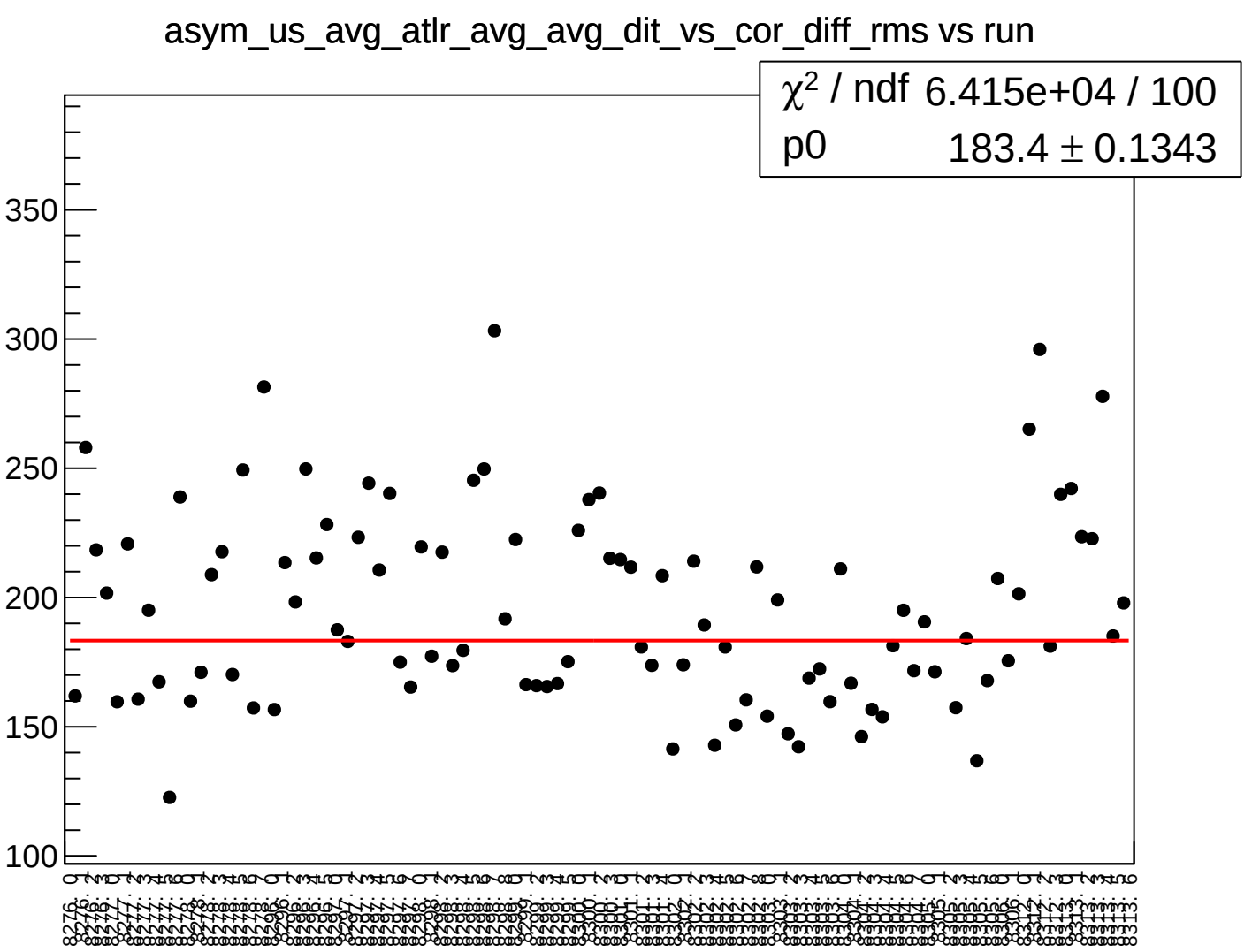

pull1D
Entries 101
Mean −0.01045
Std Dev 1.04

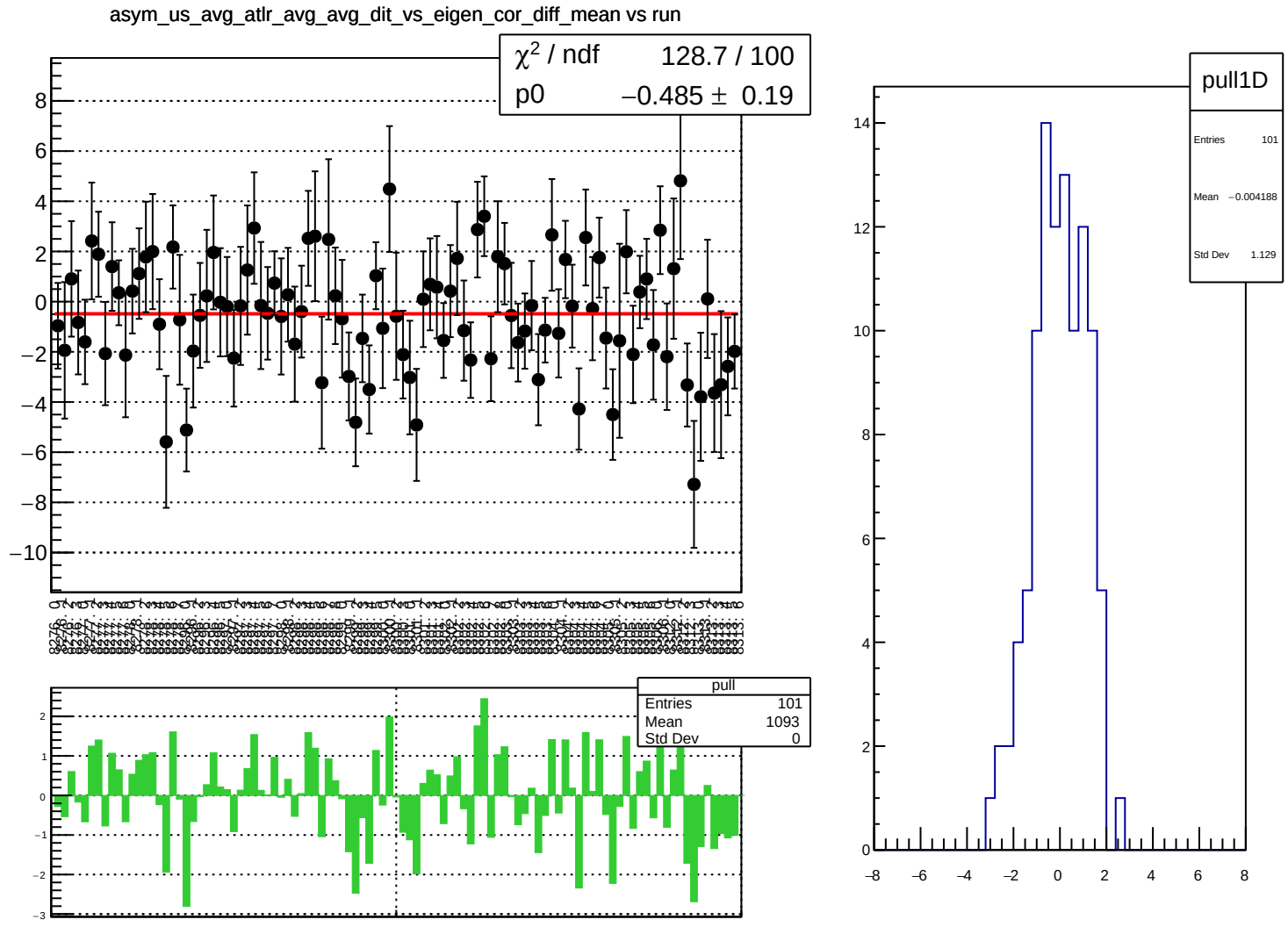

asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 8009 / 100
p0 8157 ± 5.887
11000
10500
10000
9500
9000
8500
8000
7500
7000

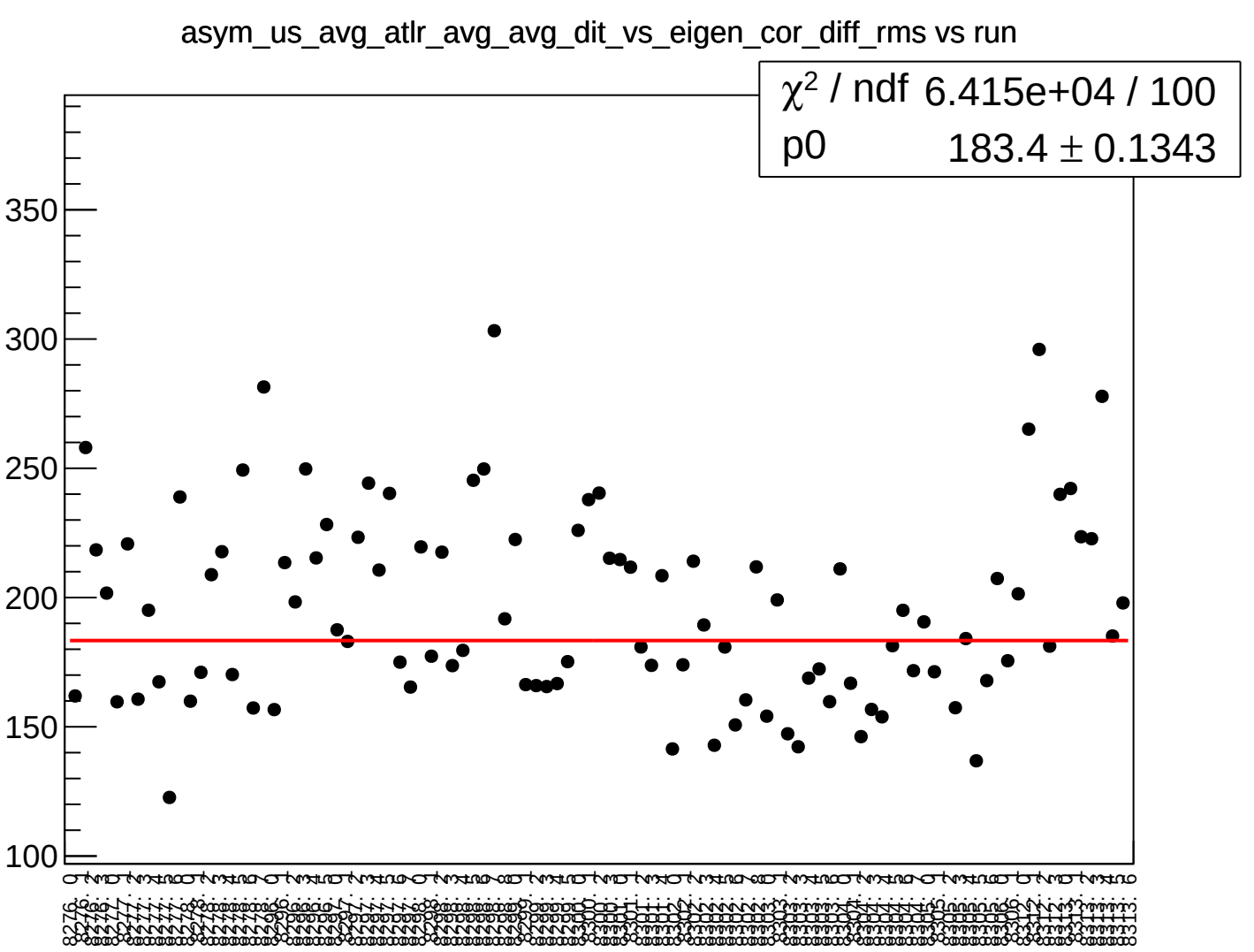

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 123.8 / 100
p0 1.963e−12 ± 1.036e−12
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 101
Mean 63.8
Std Dev 35.03
4
3
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.2617
Std Dev 1.076
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

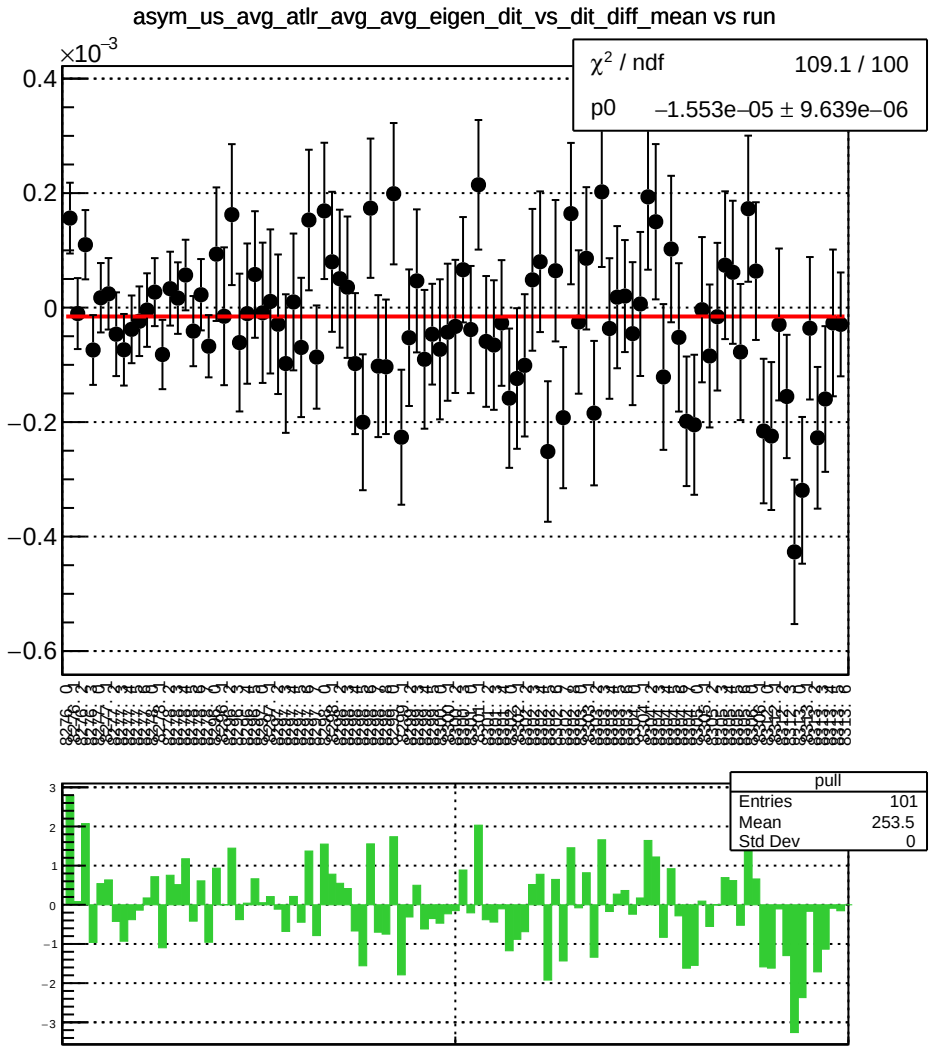

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.849e+05 / 100
p0 7.115e−10 ± 7.329e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

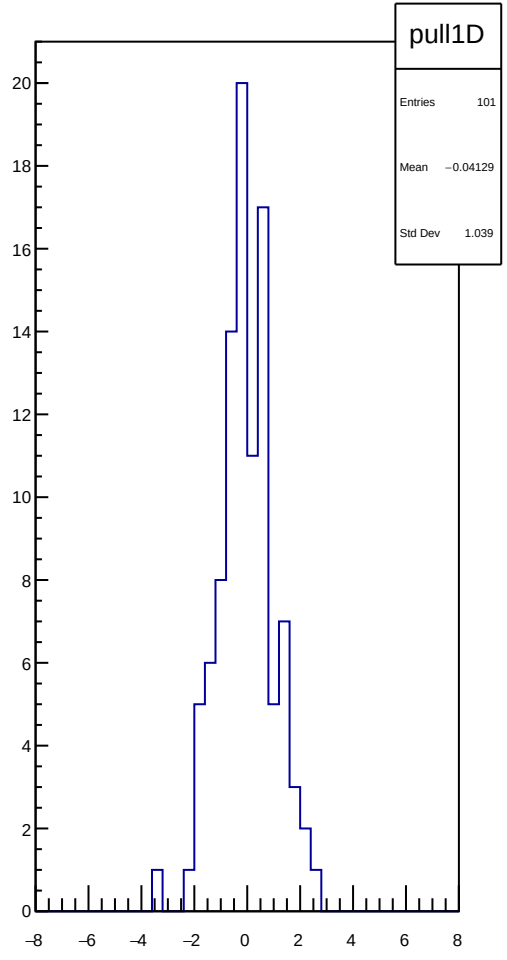

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 128.7 / 100
p0 −0.485 ± 0.19
pull
Entries 101
Mean 1093
Std Dev 0
pull1D
Entries 101
Mean −0.004188
Std Dev 1.129

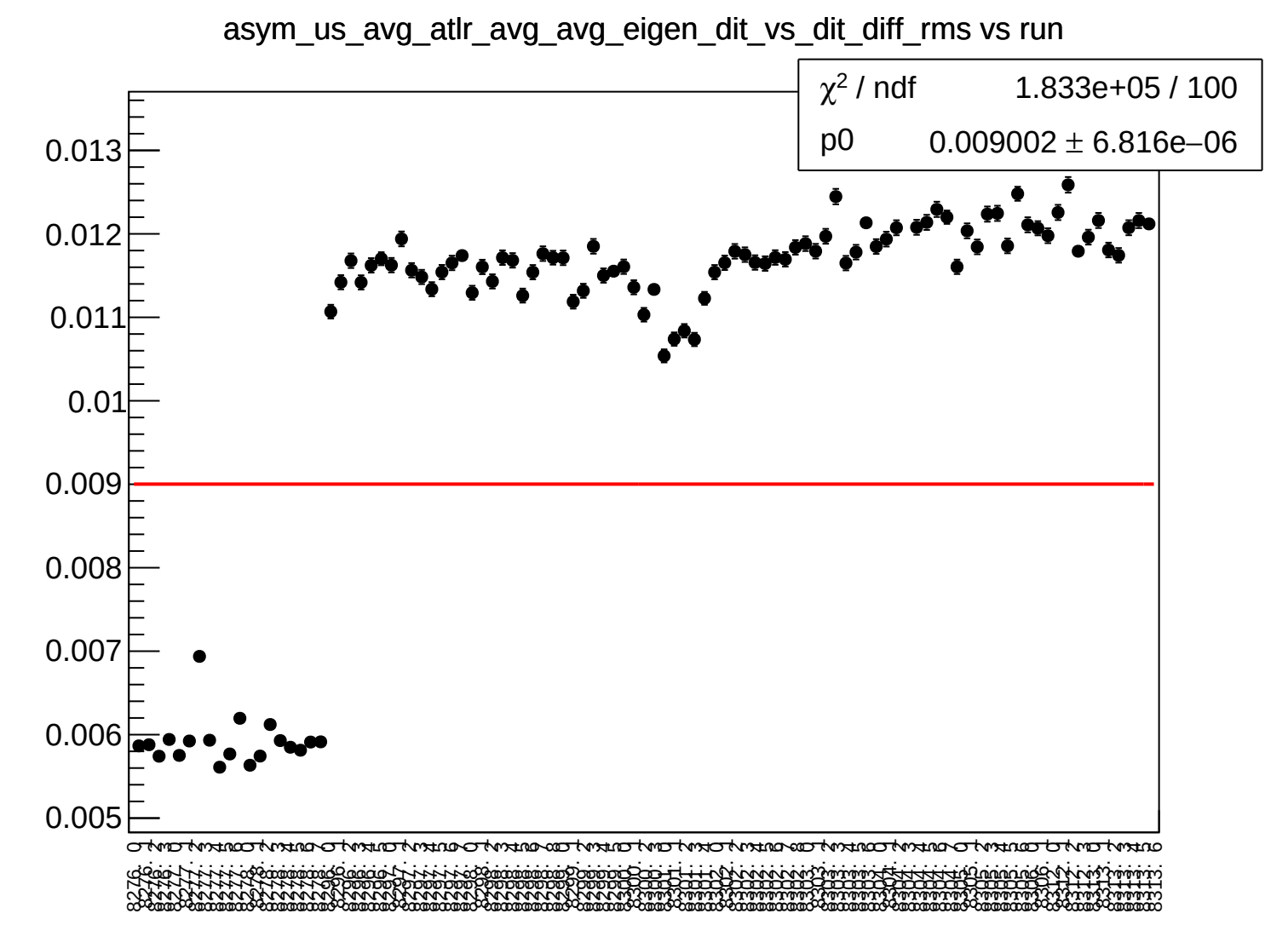

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.415e+04 / 100
p0 183.4 ± 0.1343
350
300
250
200
150
100

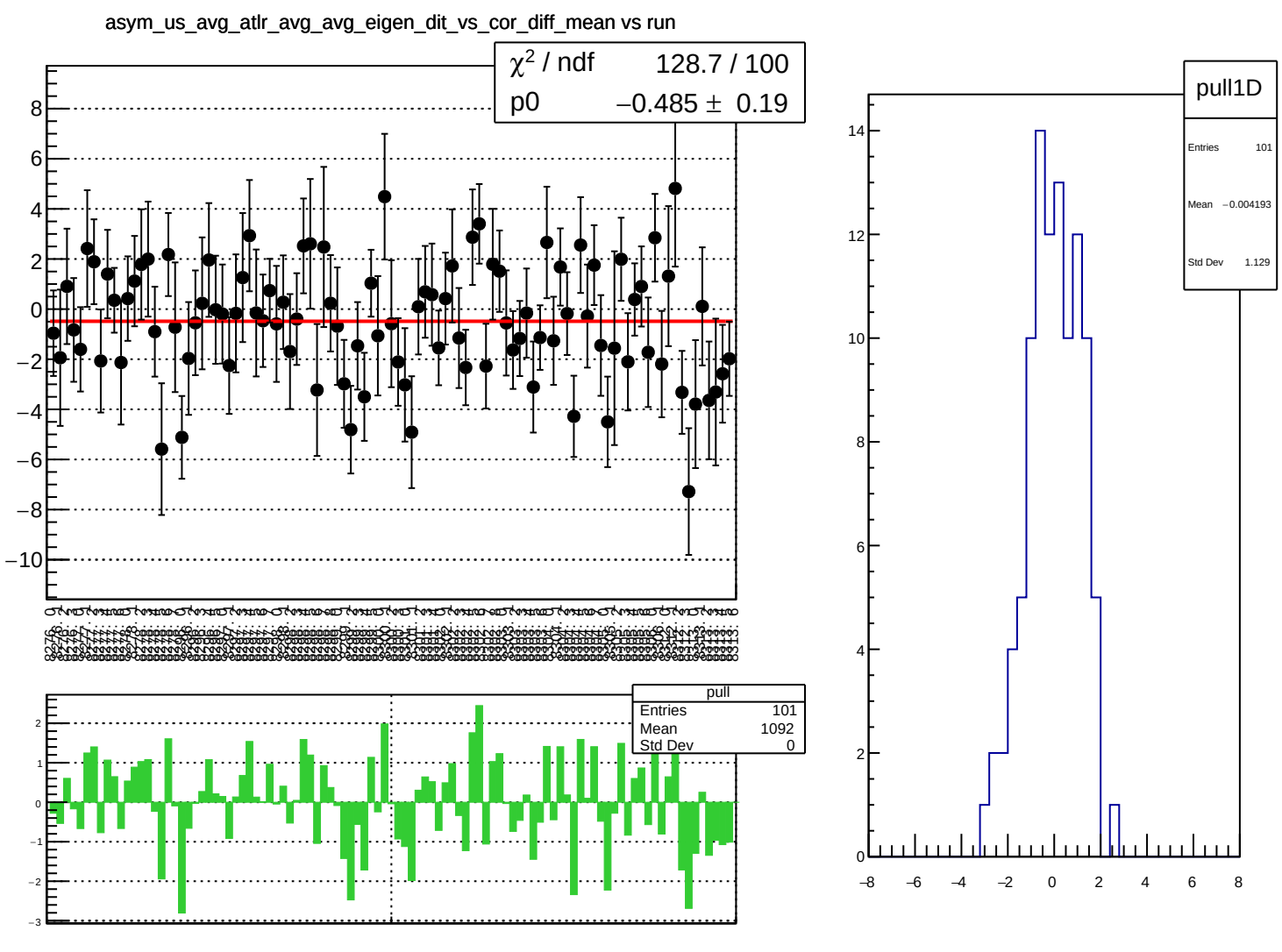

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 128.7 / 100
p0 −0.485 ± 0.19
pull
Entries 101
Mean 1093
Std Dev 0
pull1D
Entries 101
Mean −0.004188
Std Dev 1.129

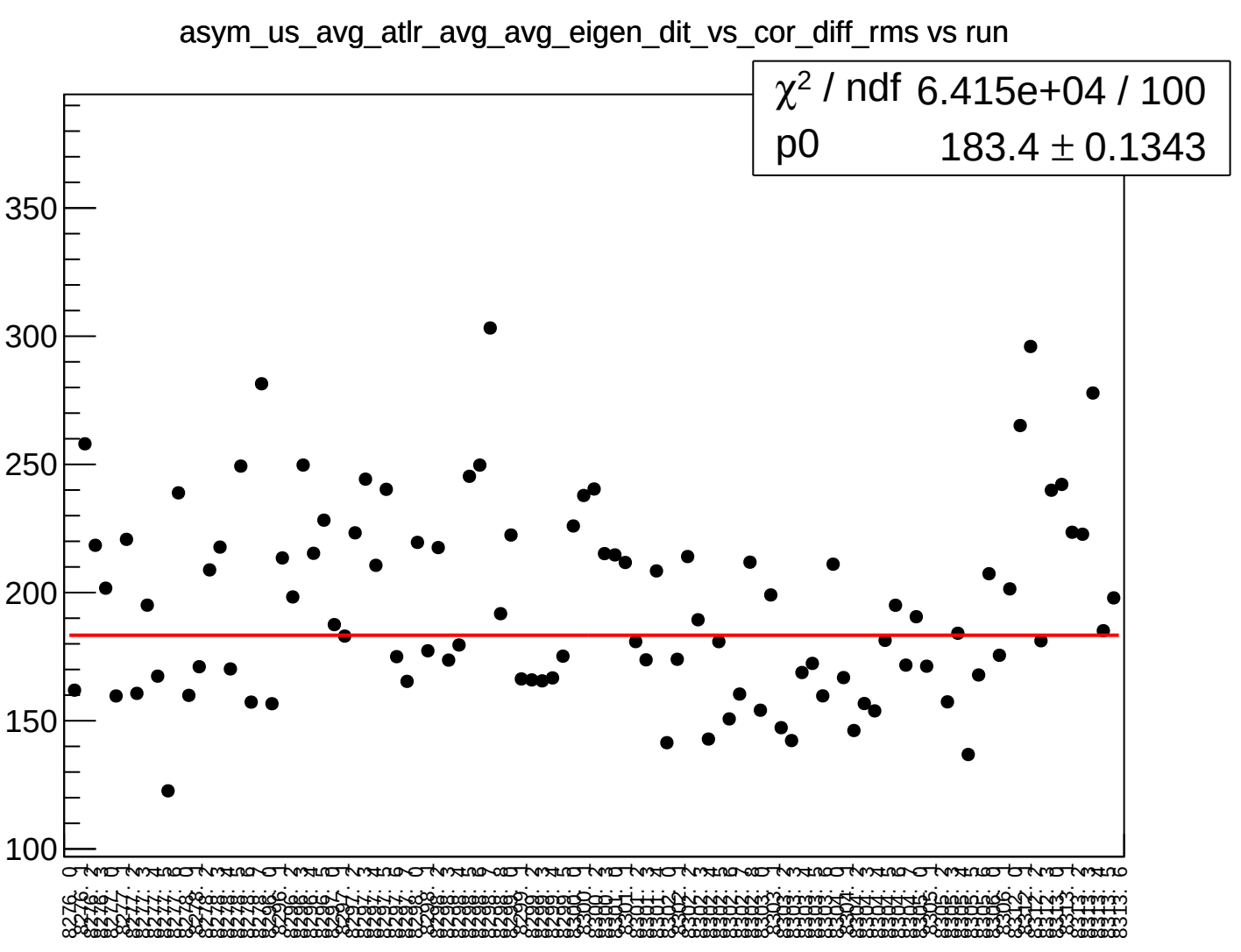

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.415e+04 / 100
p0 183.4 ± 0.1343
350
300
250
200
150
100

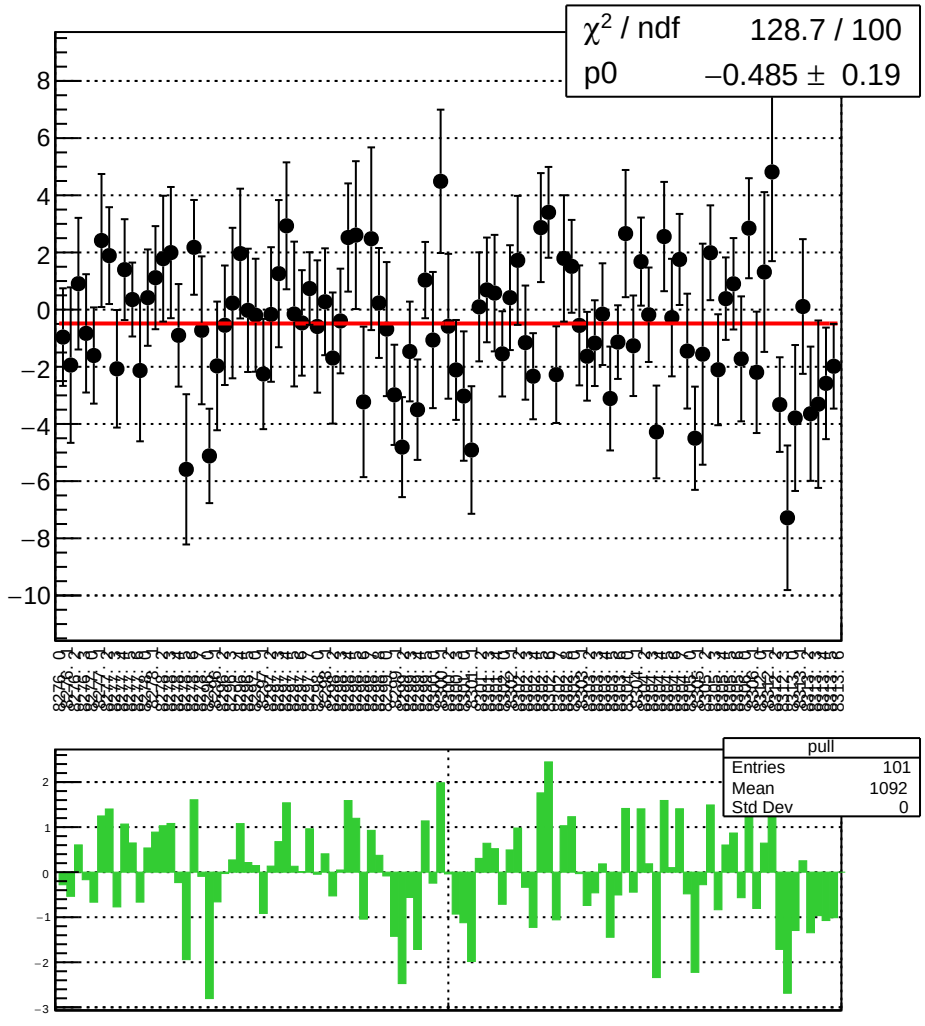

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 109.1 / 100
p0 −1.553e−05 ± 9.639e−06
pull
Entries 101
Mean 253.5
Std Dev 0

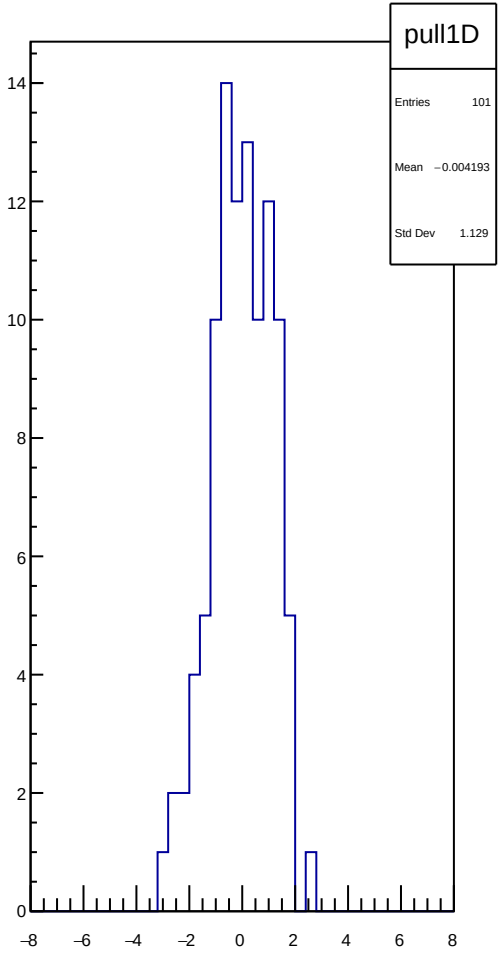

pull1D
Entries 101
Mean −0.04129
Std Dev 1.039

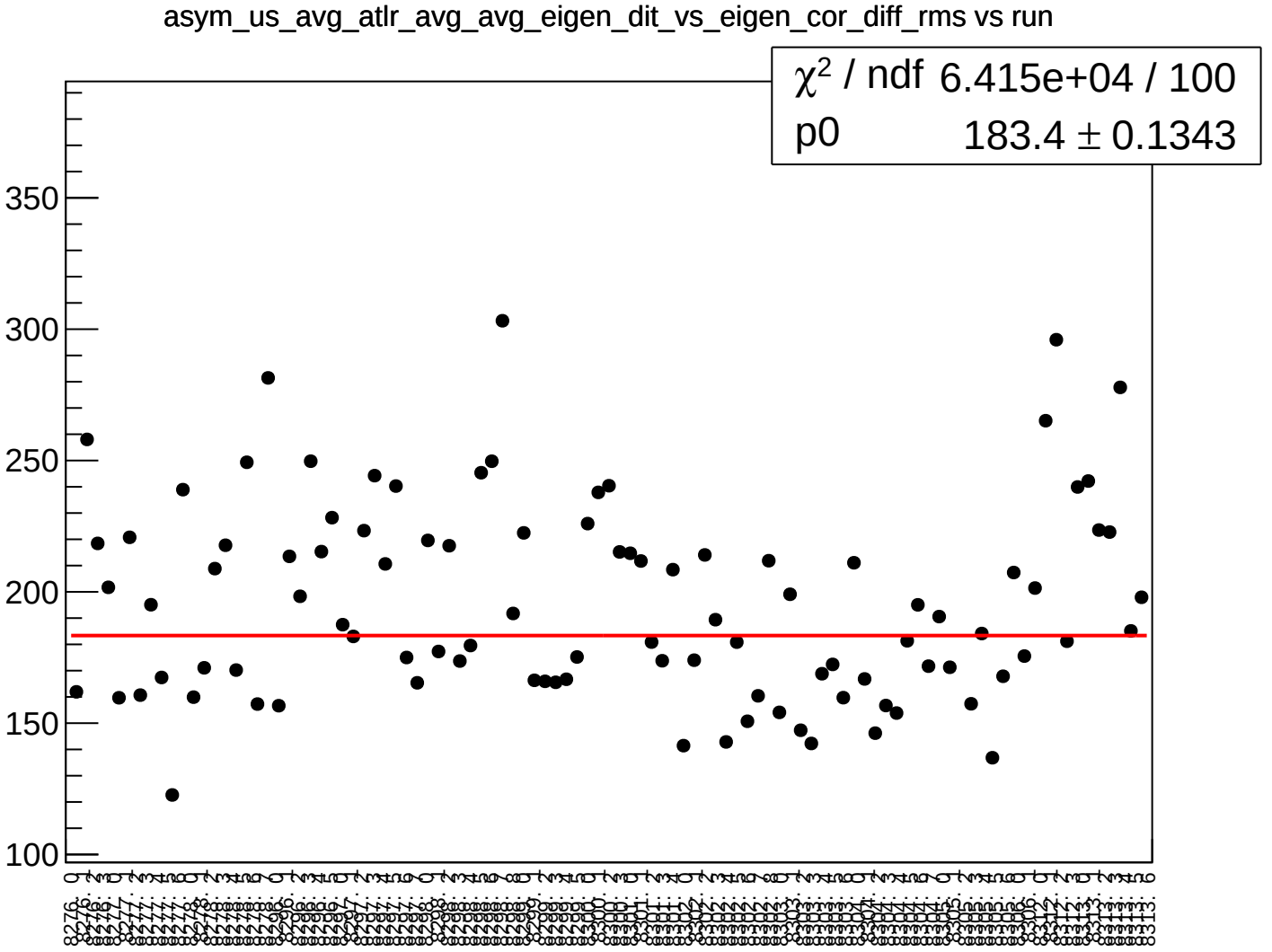

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.833e+05 / 100
p0 0.009002 ± 6.816e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005

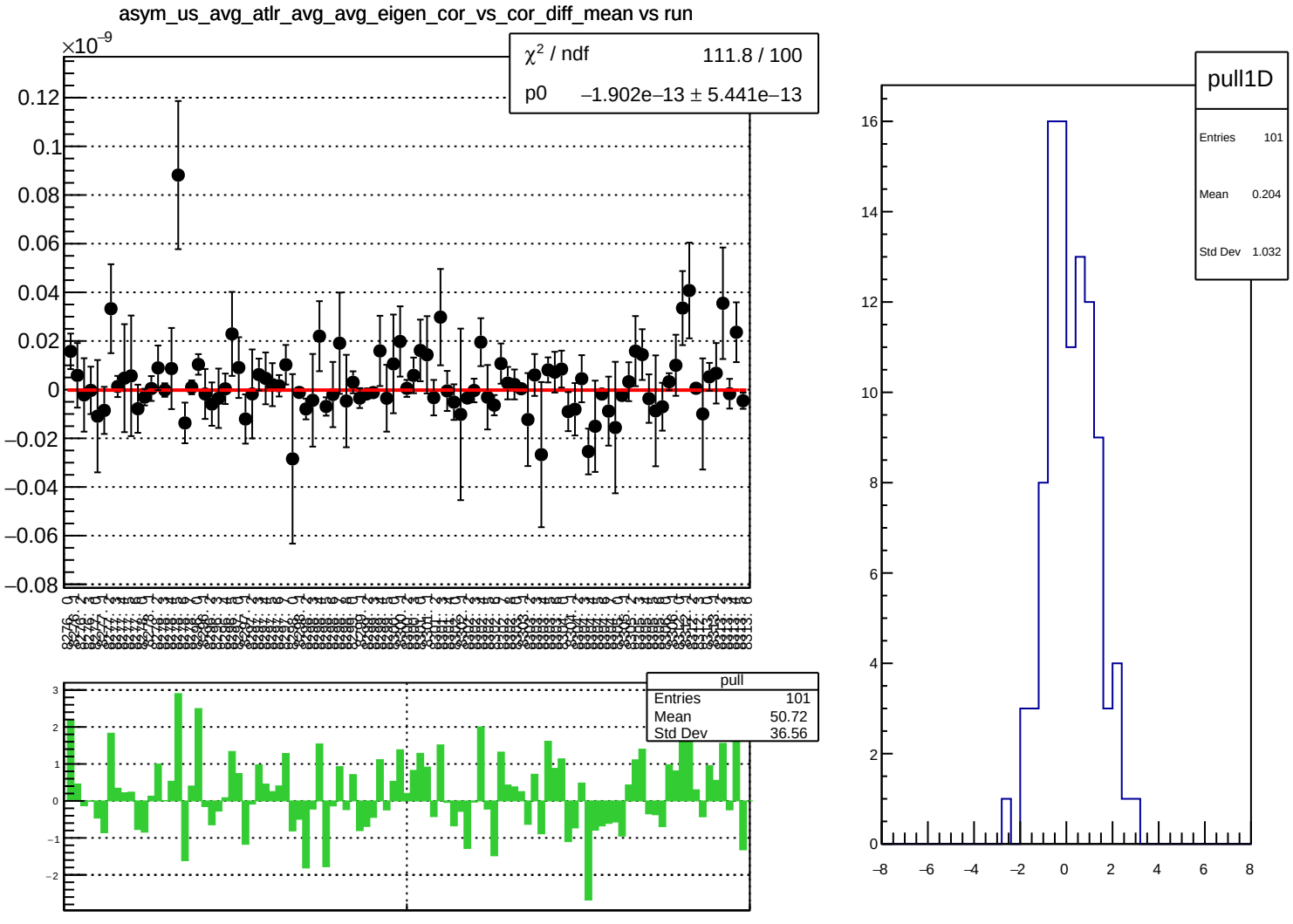

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 128.7 / 100
p0 −0.485 ± 0.19
pull
Entries 101
Mean 1092
Std Dev 0
pull1D
Entries 101
Mean −0.004193
Std Dev 1.129

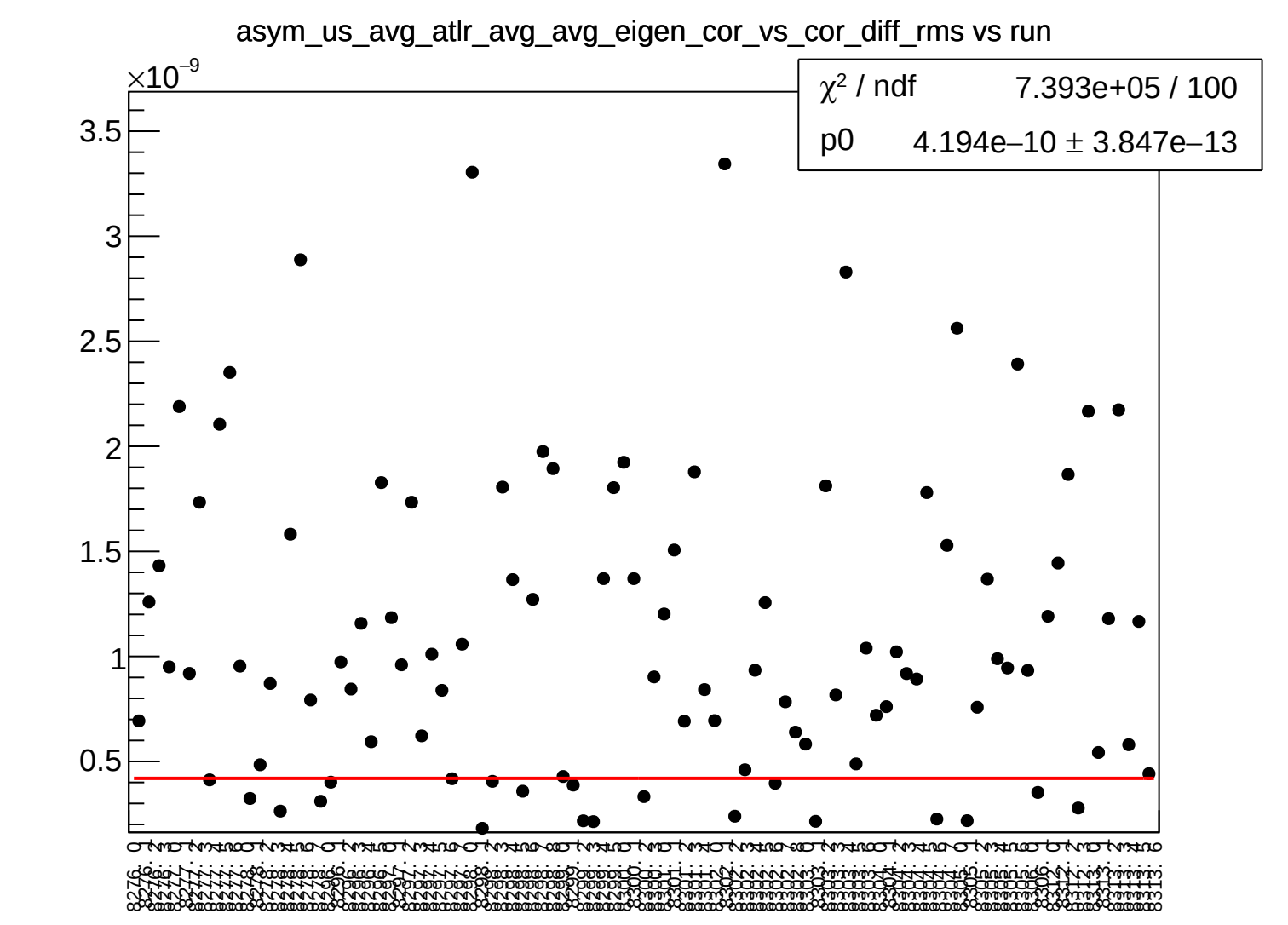

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.415e+04 / 100
p0 183.4 ± 0.1343
350
300
250
200
150
100

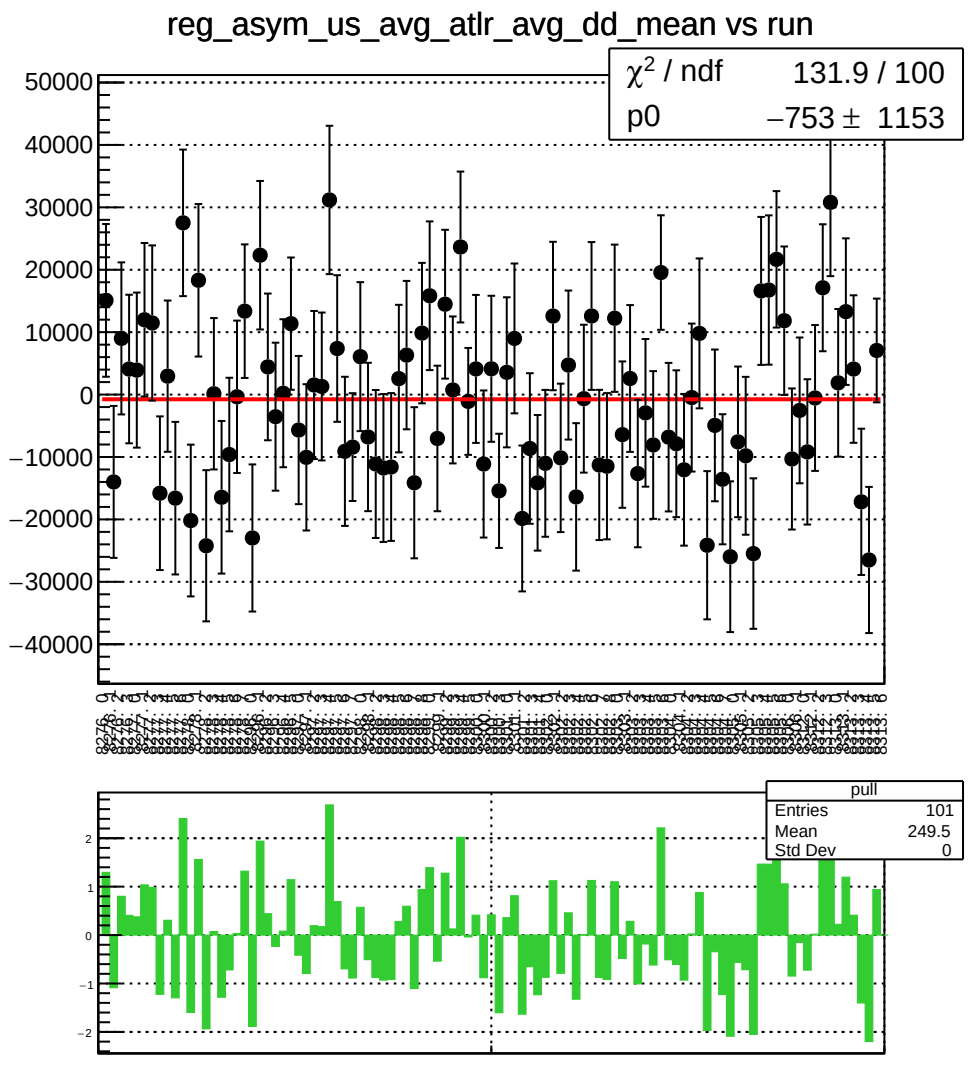

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 128.7 / 100
p0 −0.485 ± 0.19
pull
Entries 101
Mean 1092
Std Dev 0

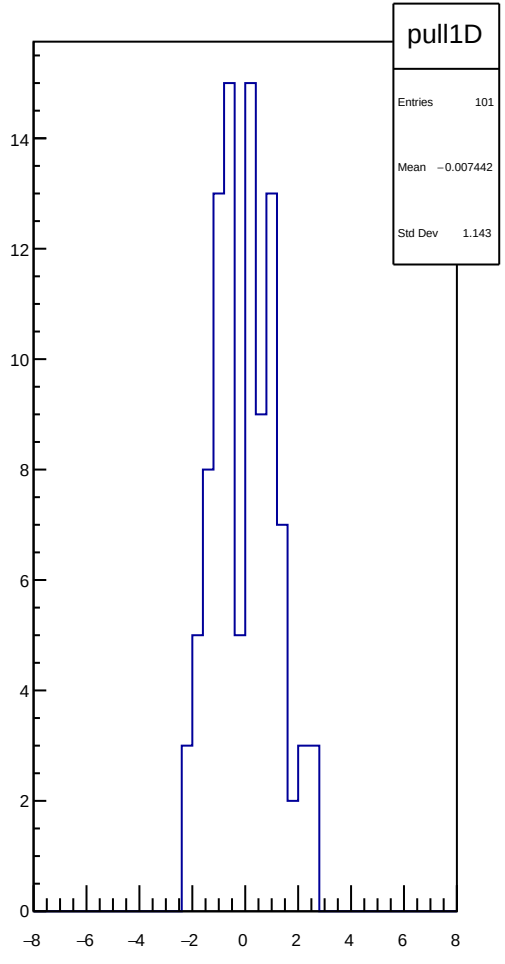

pull1D
Entries 101
Mean −0.004193
Std Dev 1.129

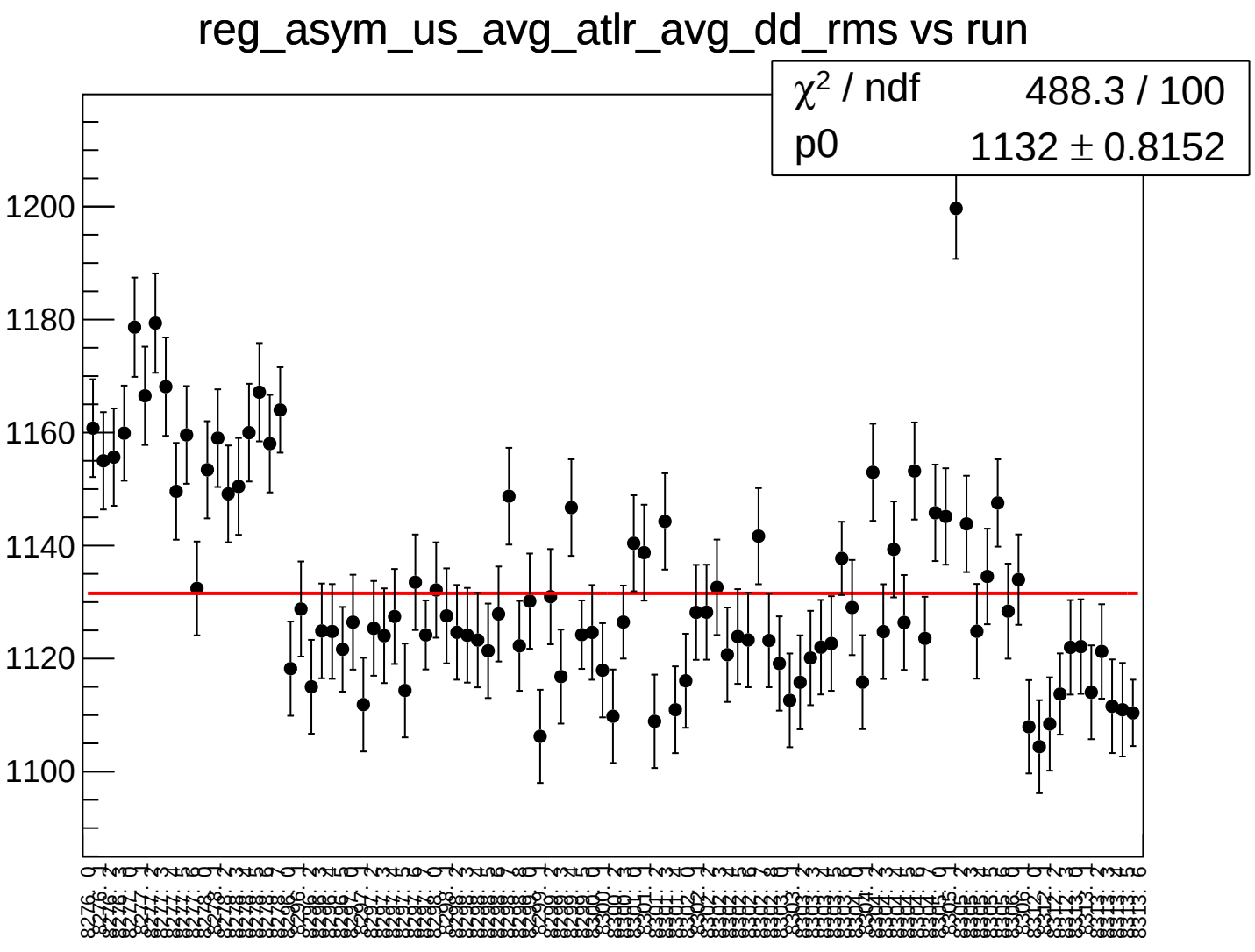

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.415e+04 / 100
p0 183.4 ± 0.1343
350
300
250
200
150
100

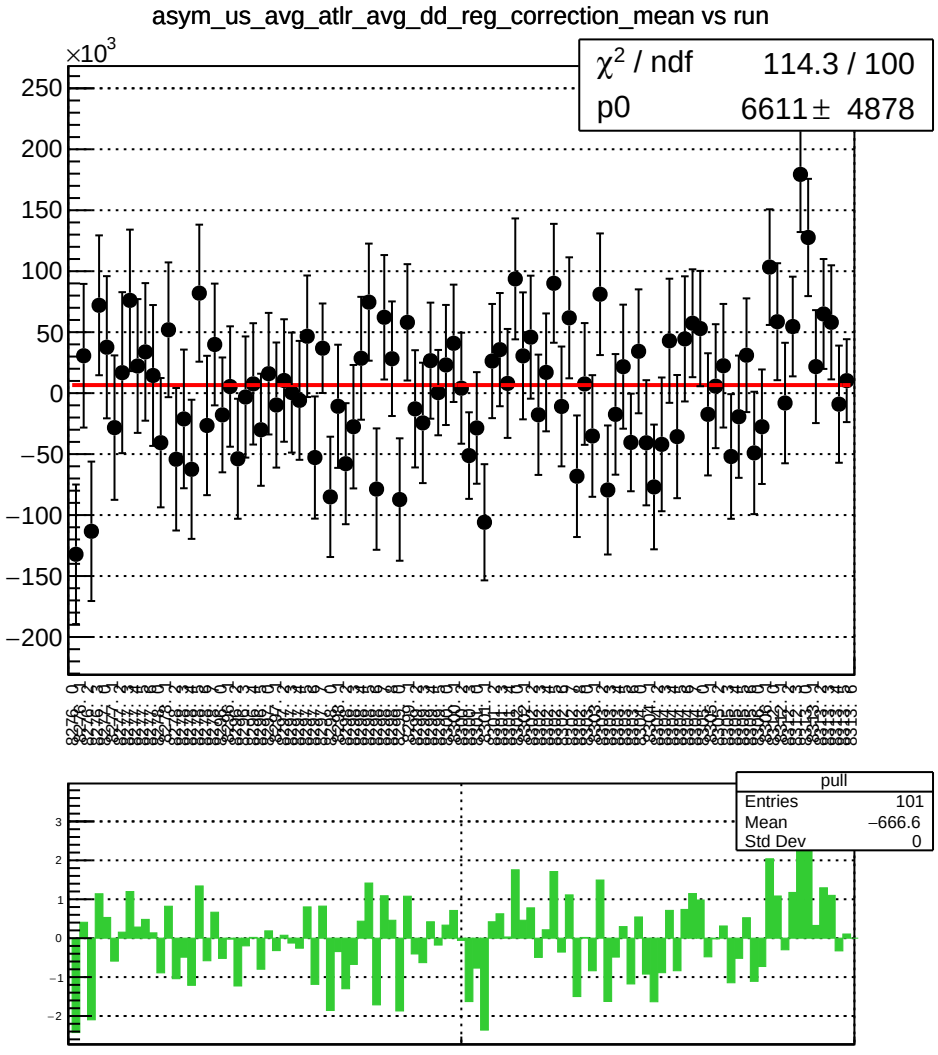

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 111.8 / 100
p0 −1.902e−13 ± 5.441e−13
0.12
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 101
Mean 50.72
Std Dev 36.56
3
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.204
Std Dev 1.032
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

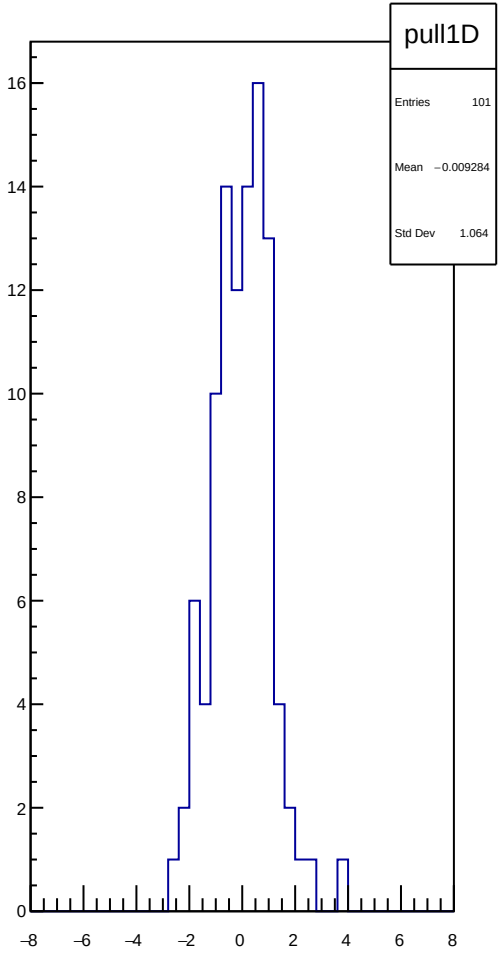

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.393e+05 / 100
p0 4.194e−10 ± 3.847e−13
3.5
3
2.5
2
1.5
1
0.5

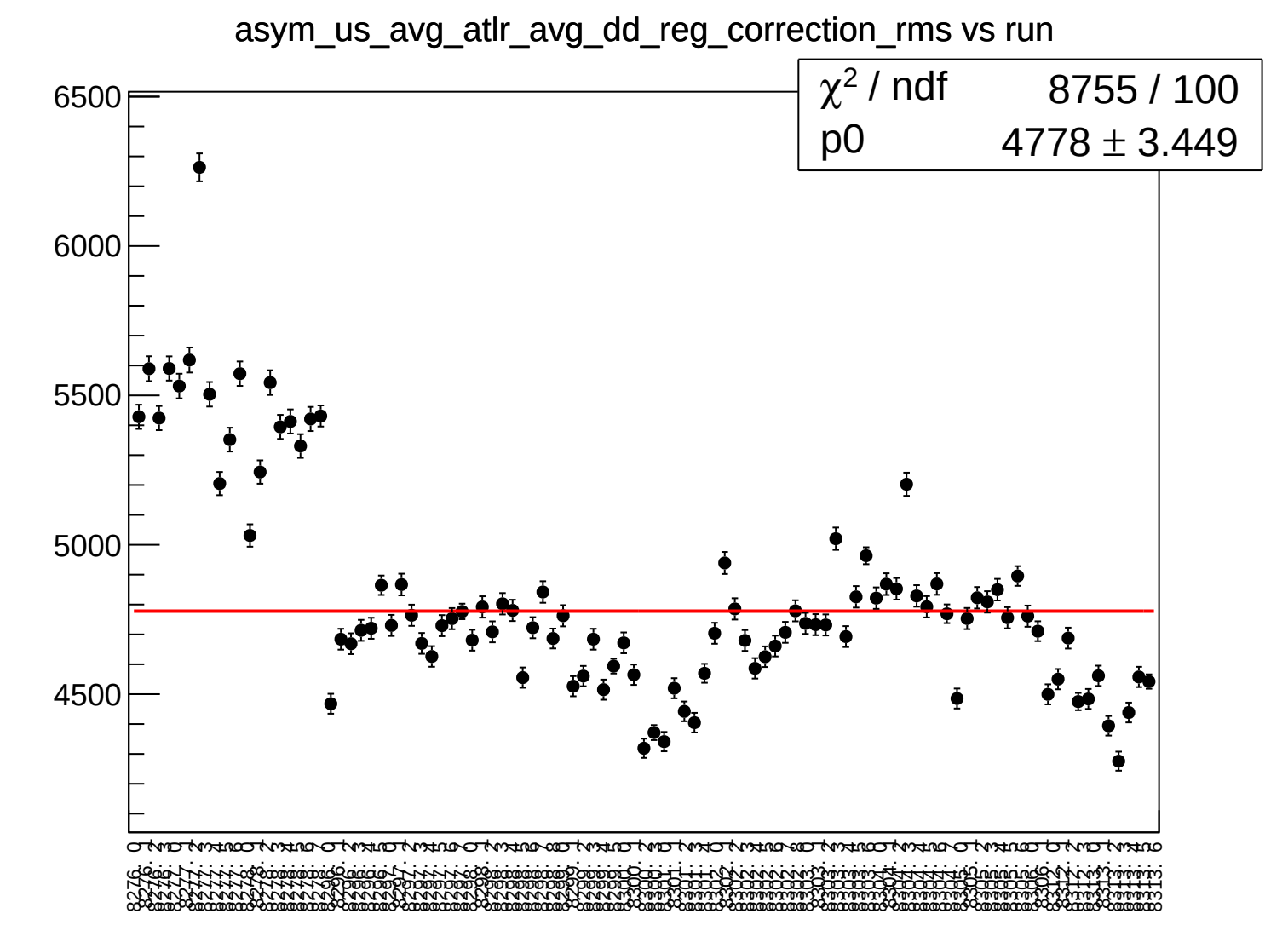

reg_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 131.9 / 100
p0 −753 ± 1153
pull
Entries 101
Mean 249.5
Std Dev 0

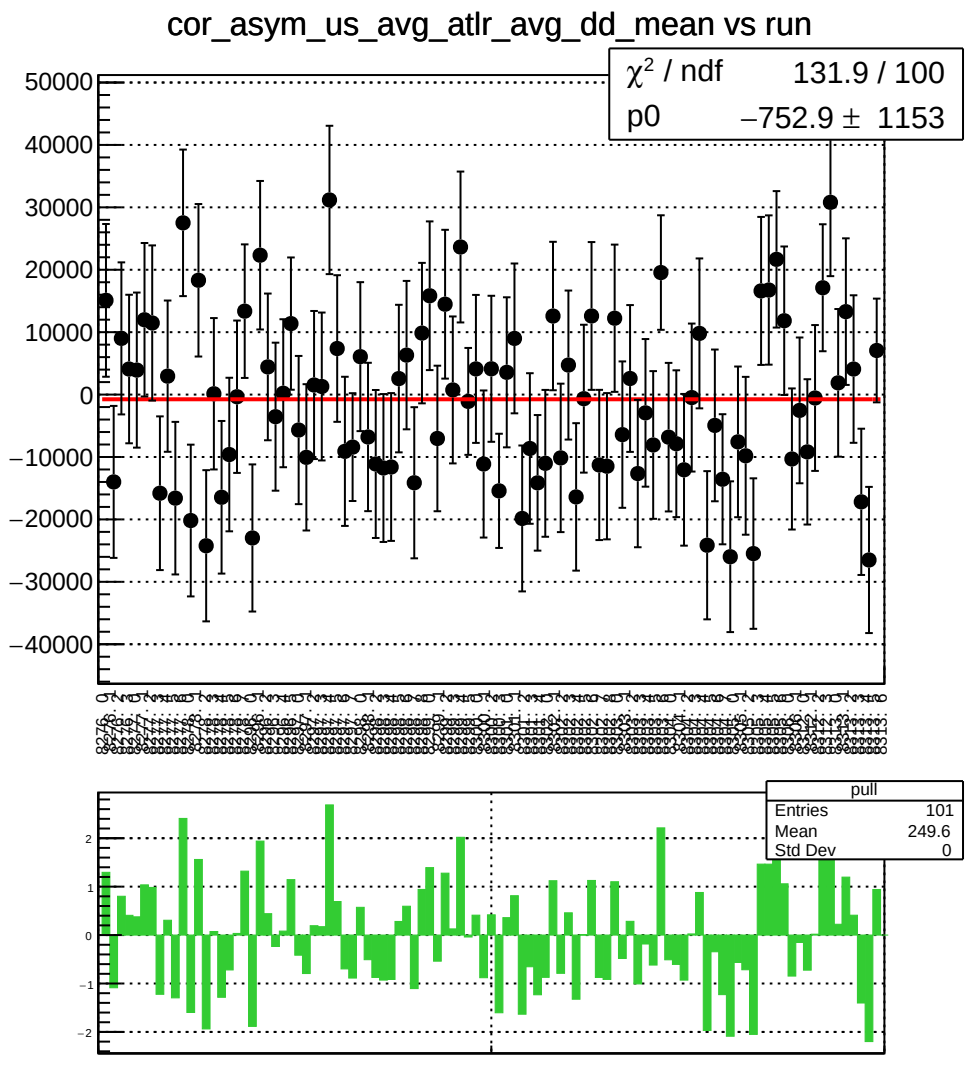

pull1D
Entries 101
Mean −0.007442
Std Dev 1.143

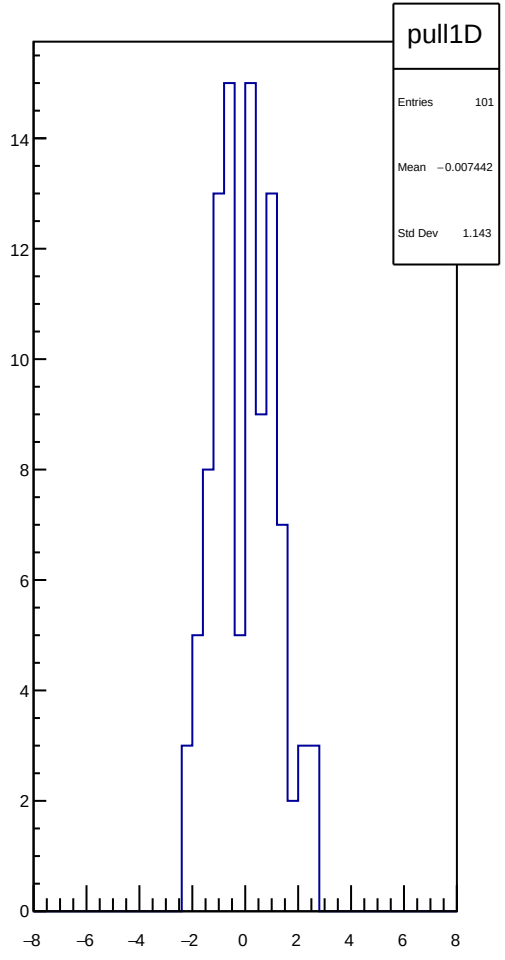

reg_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 488.3 / 100
p0 1132 ± 0.8152
1200
1180
1160
1140
1120
1100

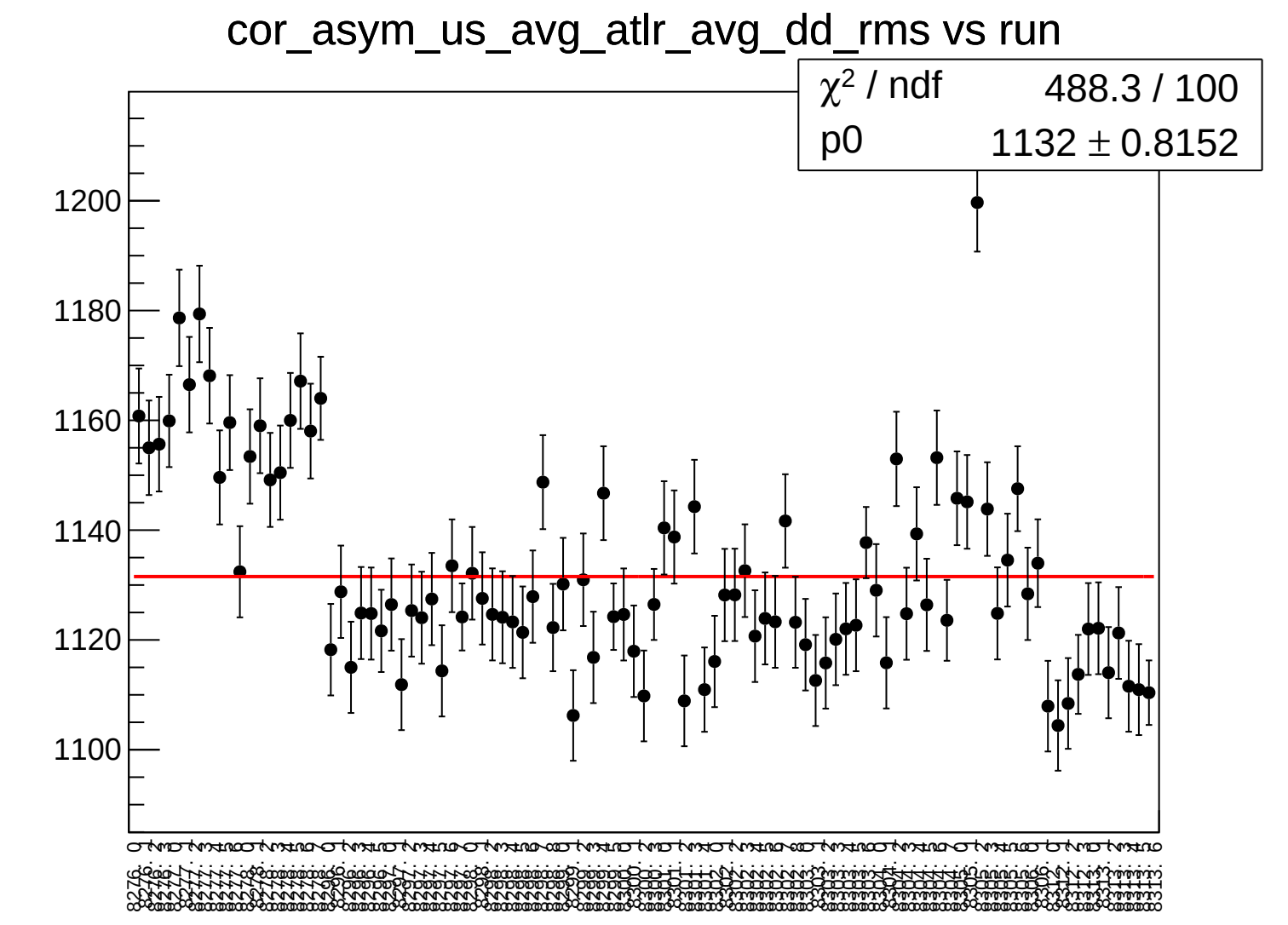

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 114.3 / 100
p0 6611 ± 4878
pull
Entries 101
Mean −666.6
Std Dev 0

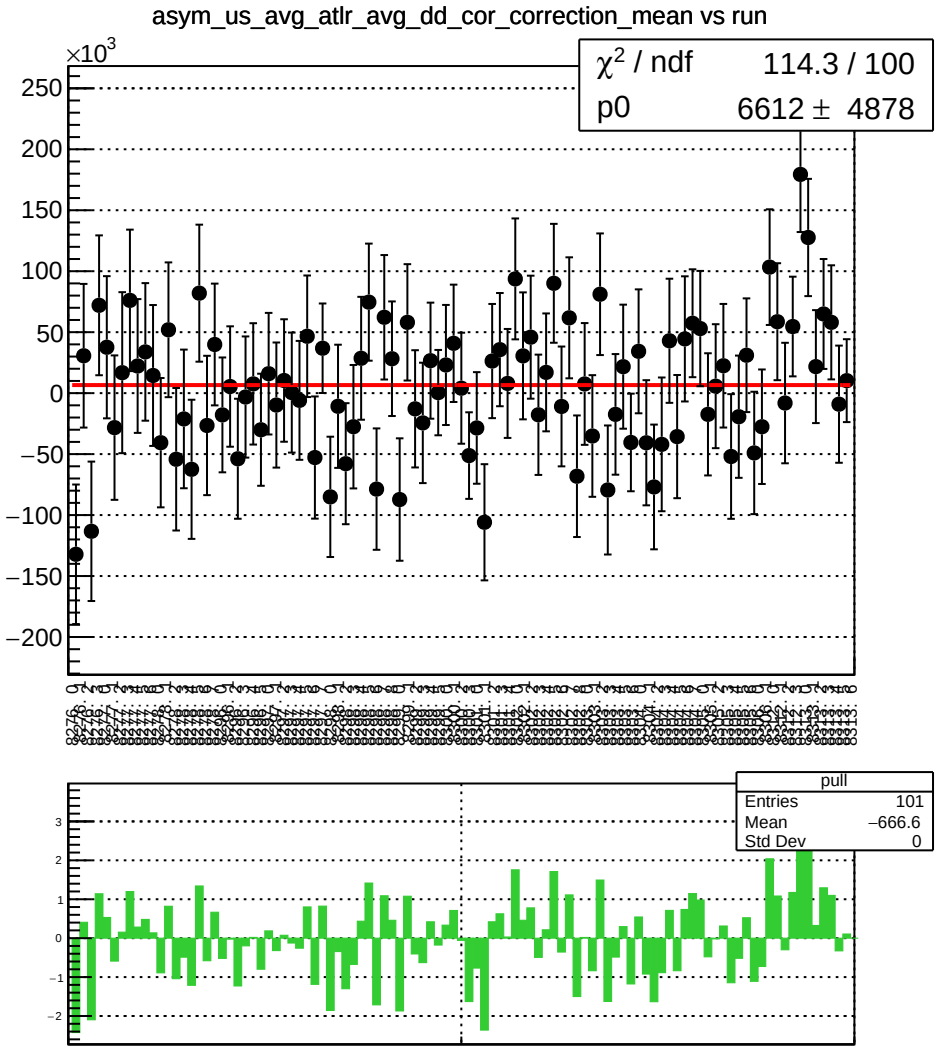

pull1D
Entries 101
Mean −0.009284
Std Dev 1.064

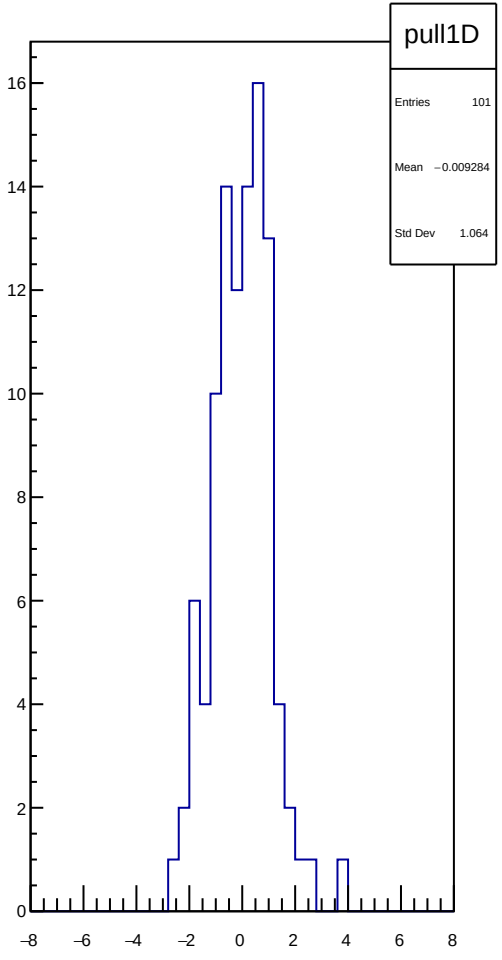

asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ^2 / ndf 8755 / 100
p0 4778 ± 3.449
6500
6000
5500
5000
4500

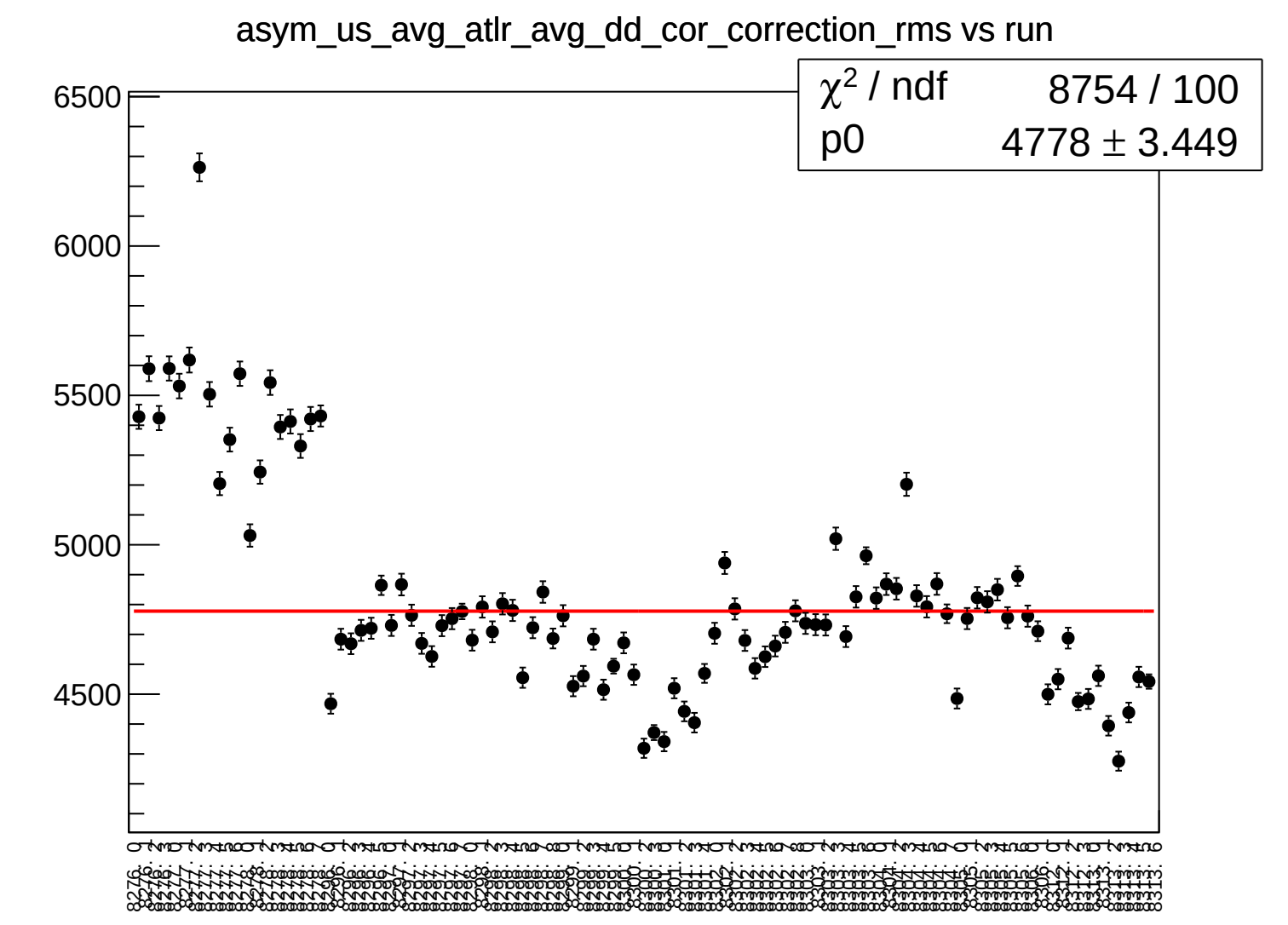

cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 131.9 / 100
p0 −752.9 ± 1153
pull
Entries 101
Mean 249.6
Std Dev 0

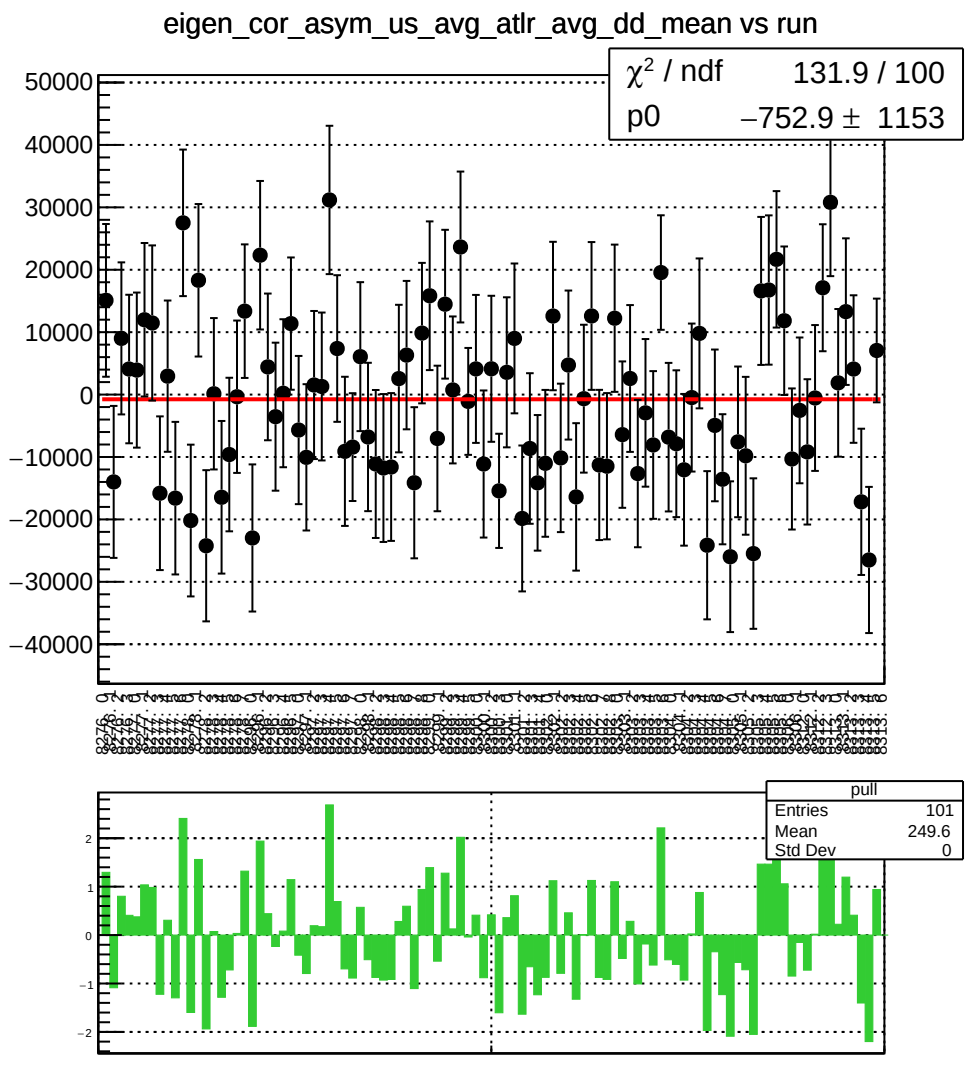

pull1D
Entries 101
Mean −0.007442
Std Dev 1.143

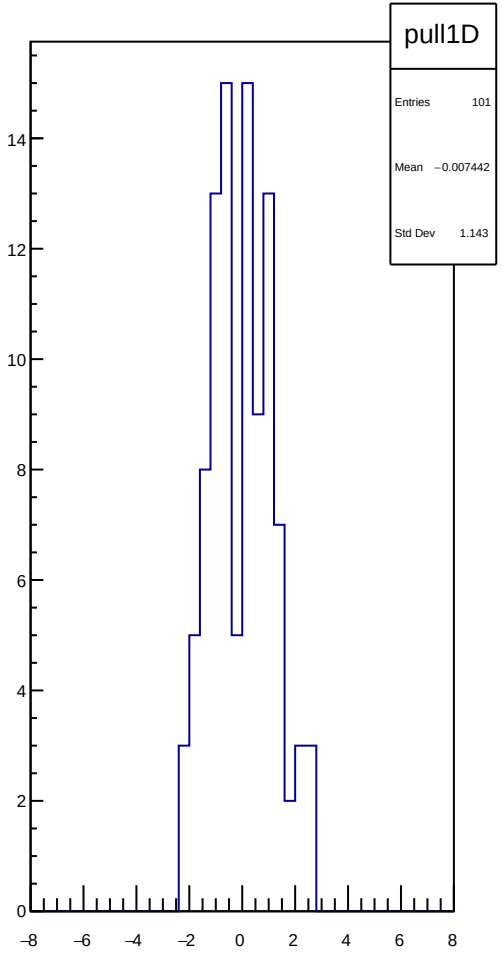

cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 488.3 / 100
p0 1132 ± 0.8152
1200
1180
1160
1140
1120
1100

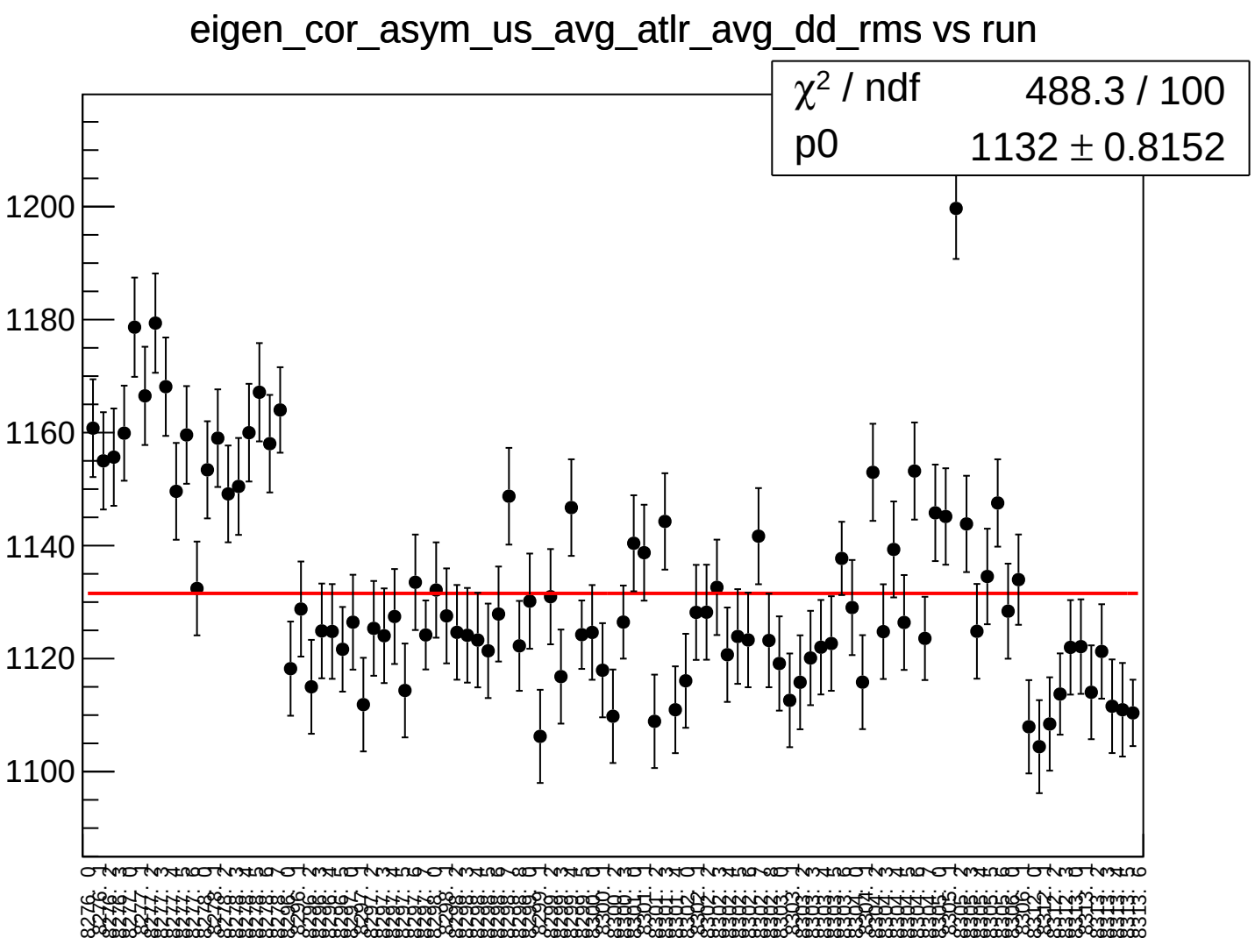

asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 114.3 / 100
p0 6612 ± 4878
250
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 101
Mean −666.6
Std Dev 0
3
2
1
0
−1
−2

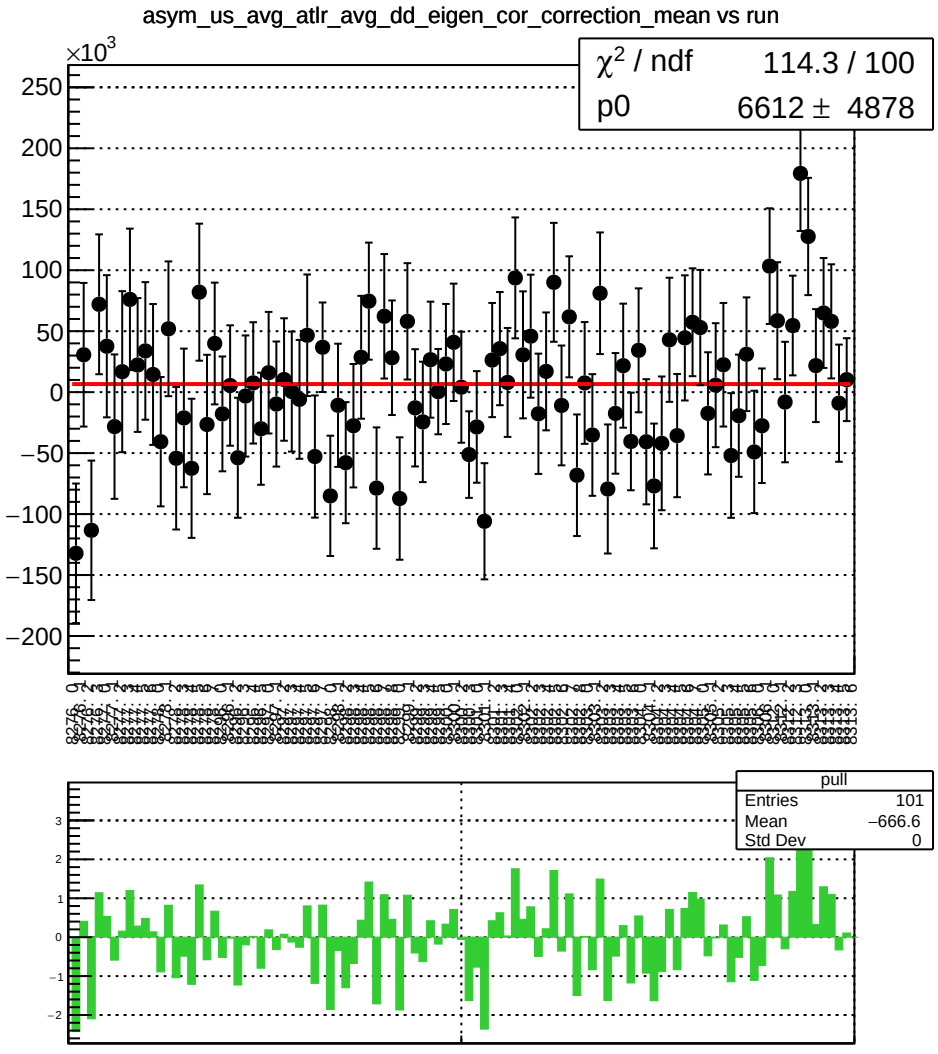

pull1D
Entries 101
Mean −0.009284
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

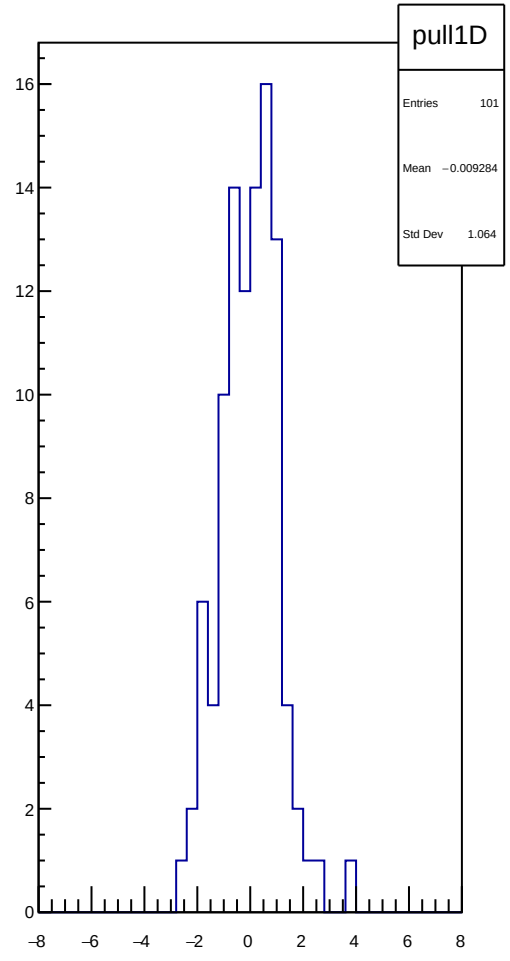

asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 8754 / 100
p0 4778 ± 3.449
6500
6000
5500
5000
4500

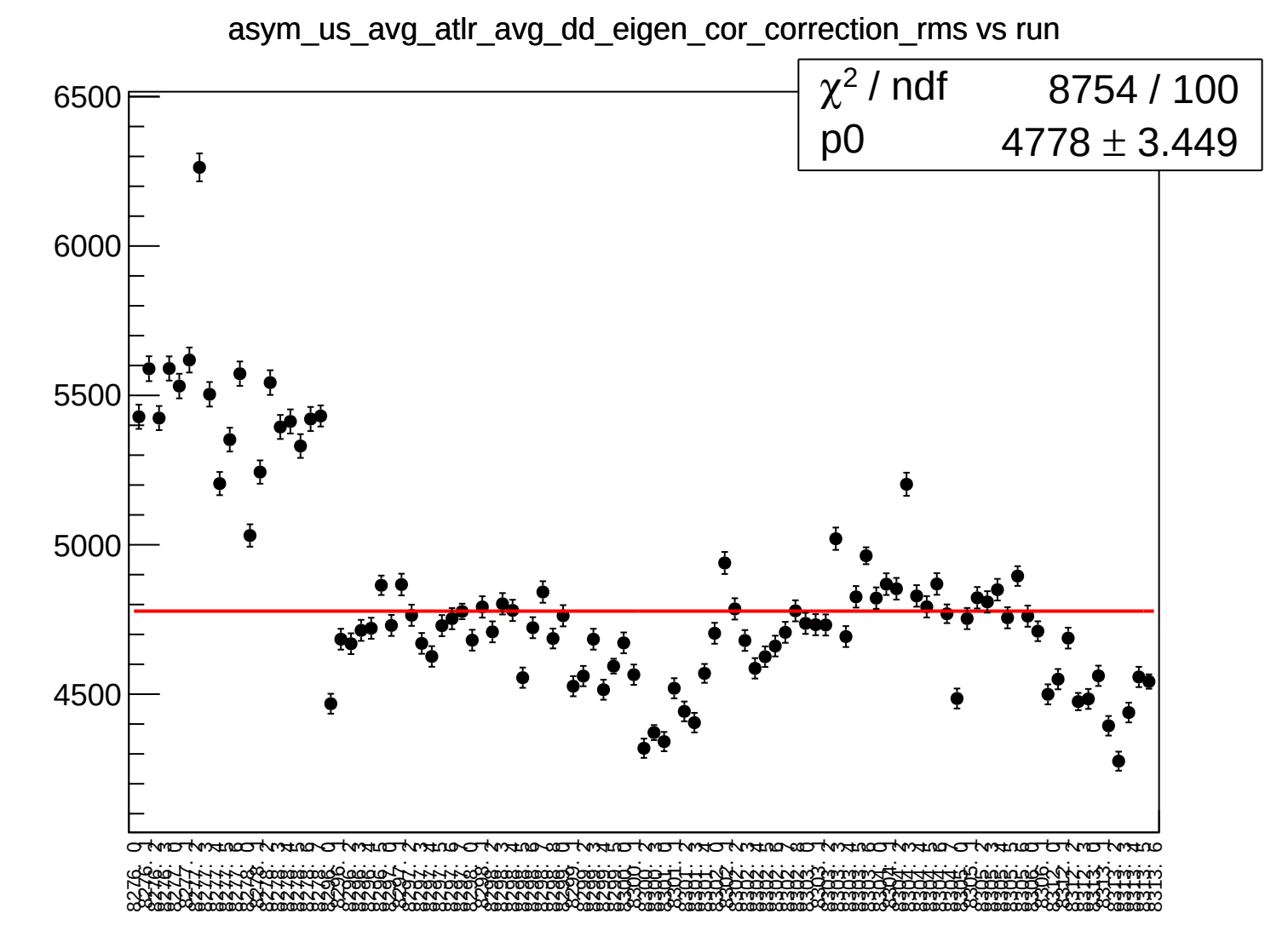

eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 131.9 / 100
p0 −752.9 ± 1153
pull
Entries 101
Mean 249.6
Std Dev 0

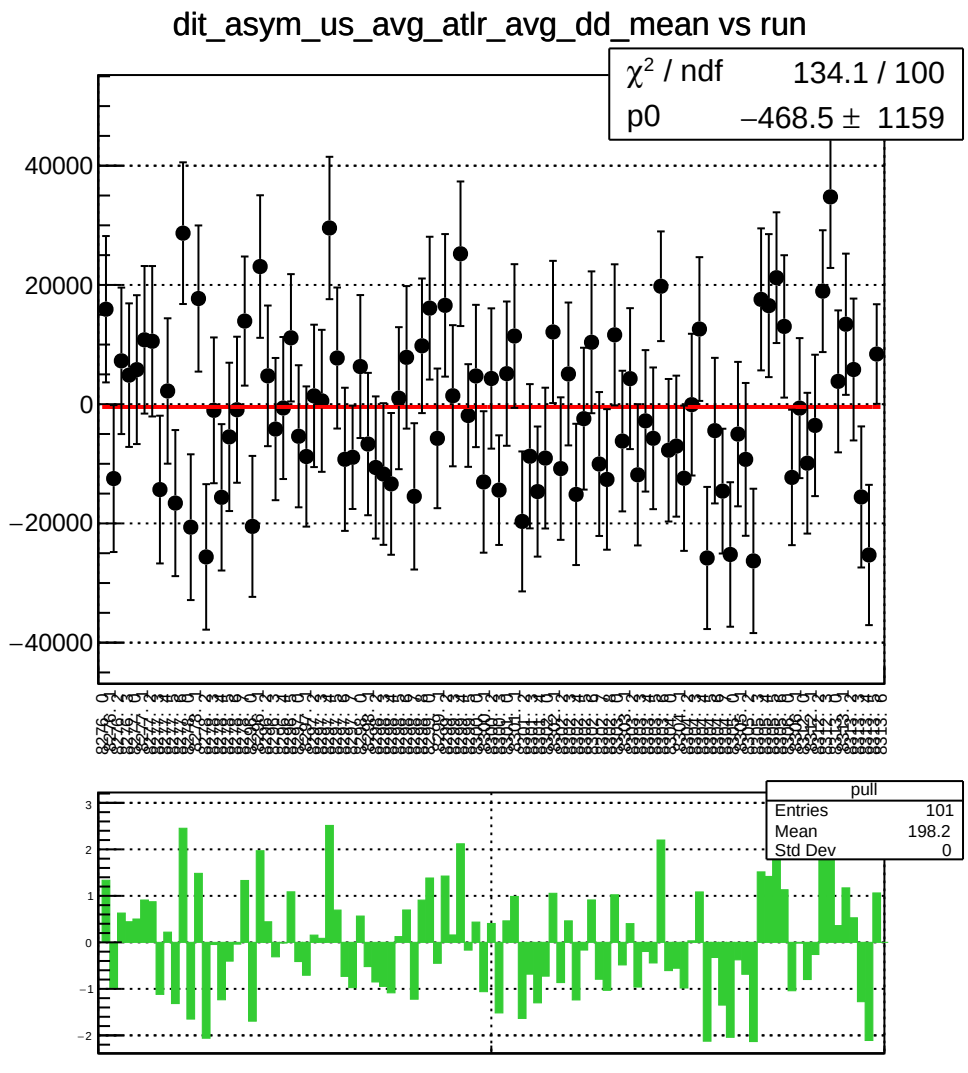

pull1D
Entries 101
Mean −0.007442
Std Dev 1.143

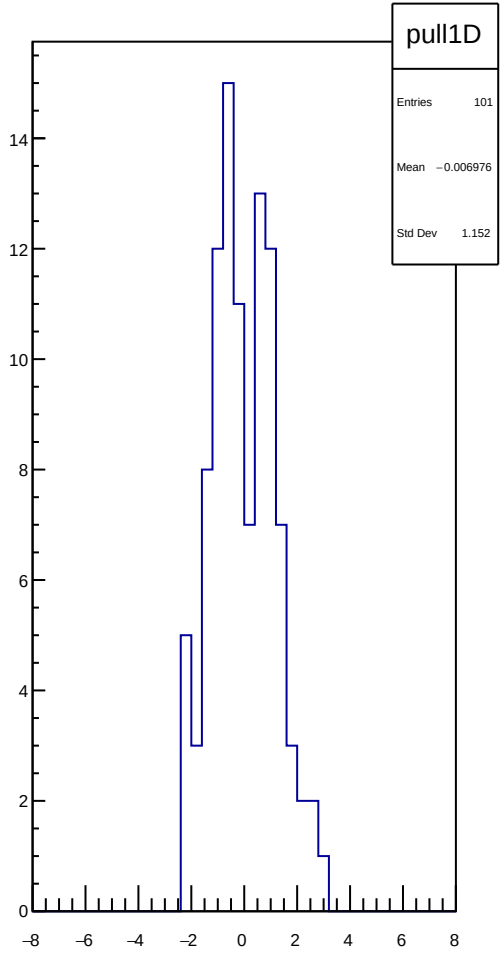

eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 488.3 / 100
p0 1132 ± 0.8152
1200
1180
1160
1140
1120
1100

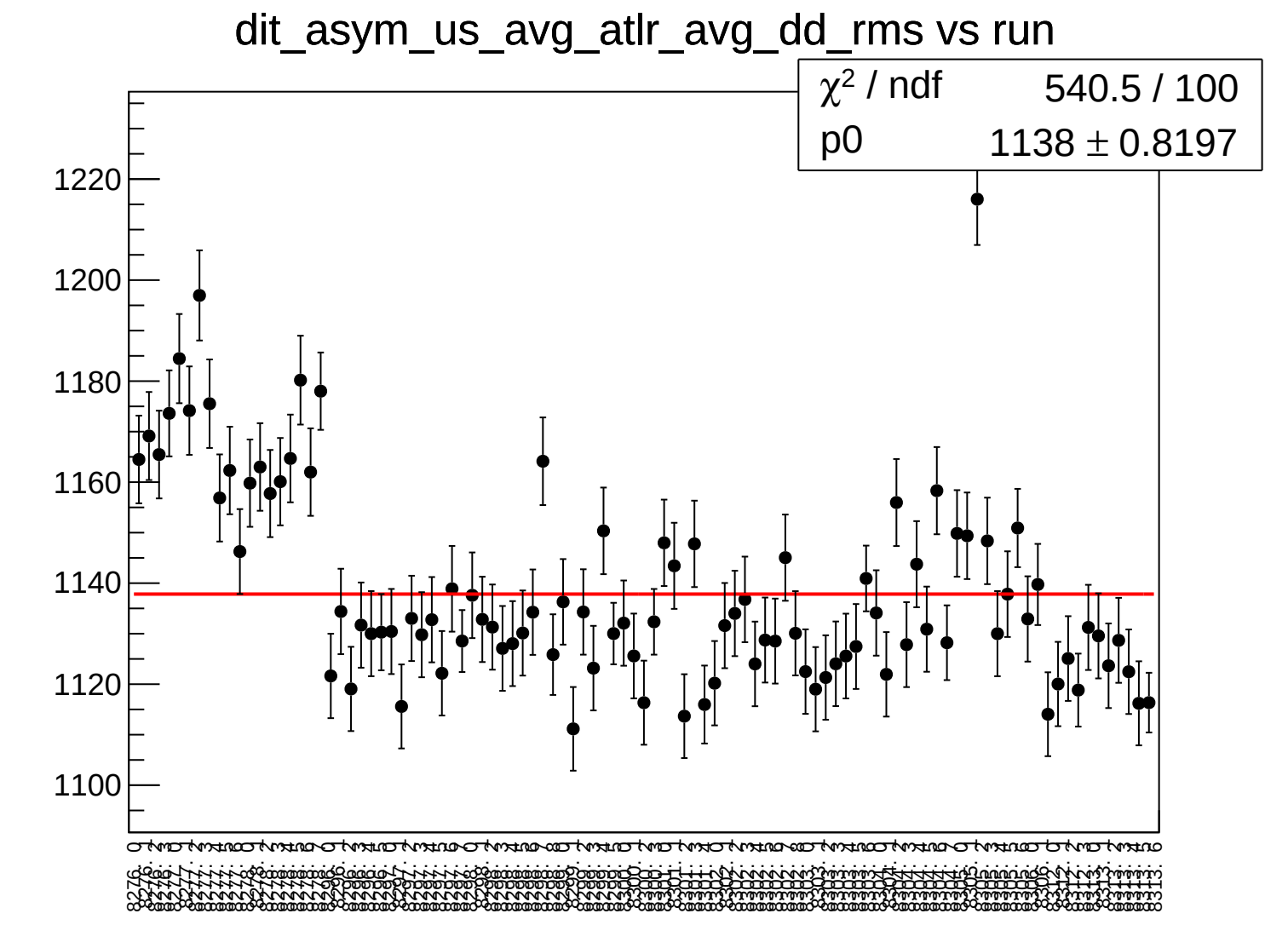

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 114.3 / 100
p0 6612 ± 4878
250
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 101
Mean −666.6
Std Dev 0
3
2
1
0
−1
−2

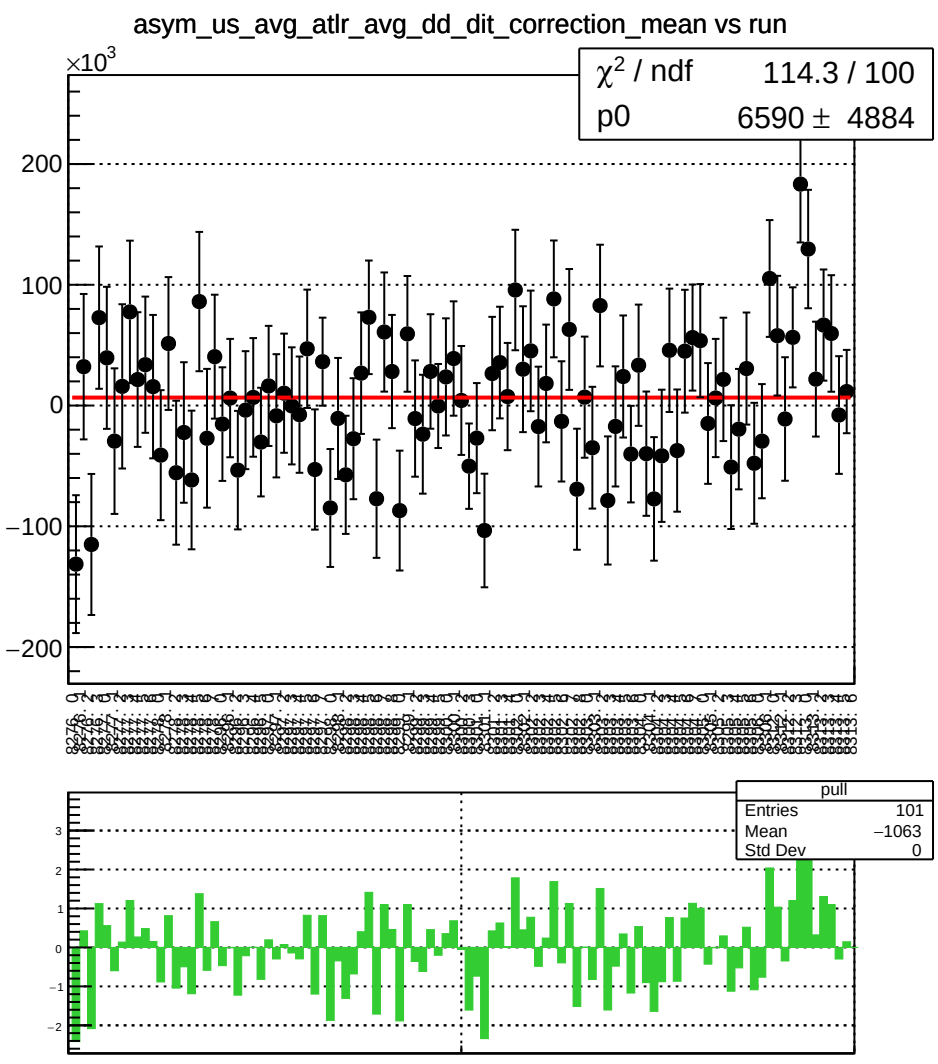

pull1D
Entries 101
Mean −0.009284
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

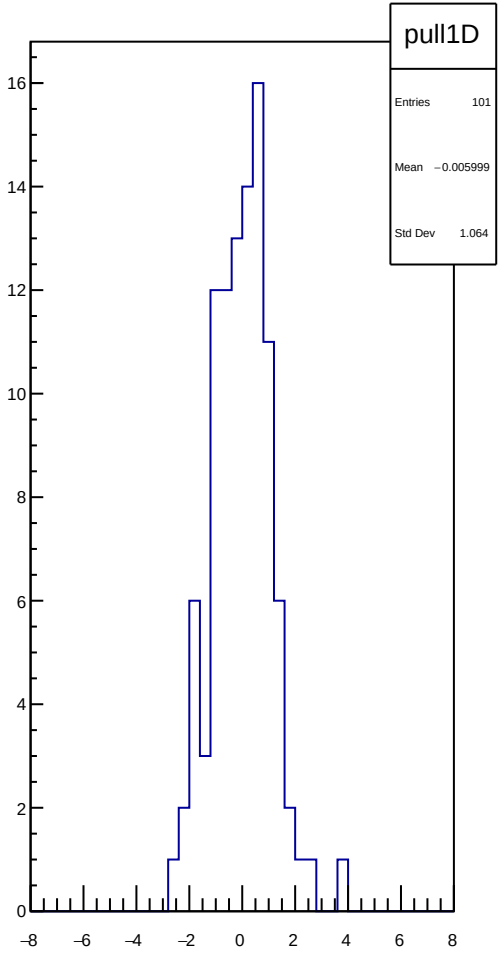

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 8754 / 100
p0 4778 ± 3.449
6500
6000
5500
5000
4500

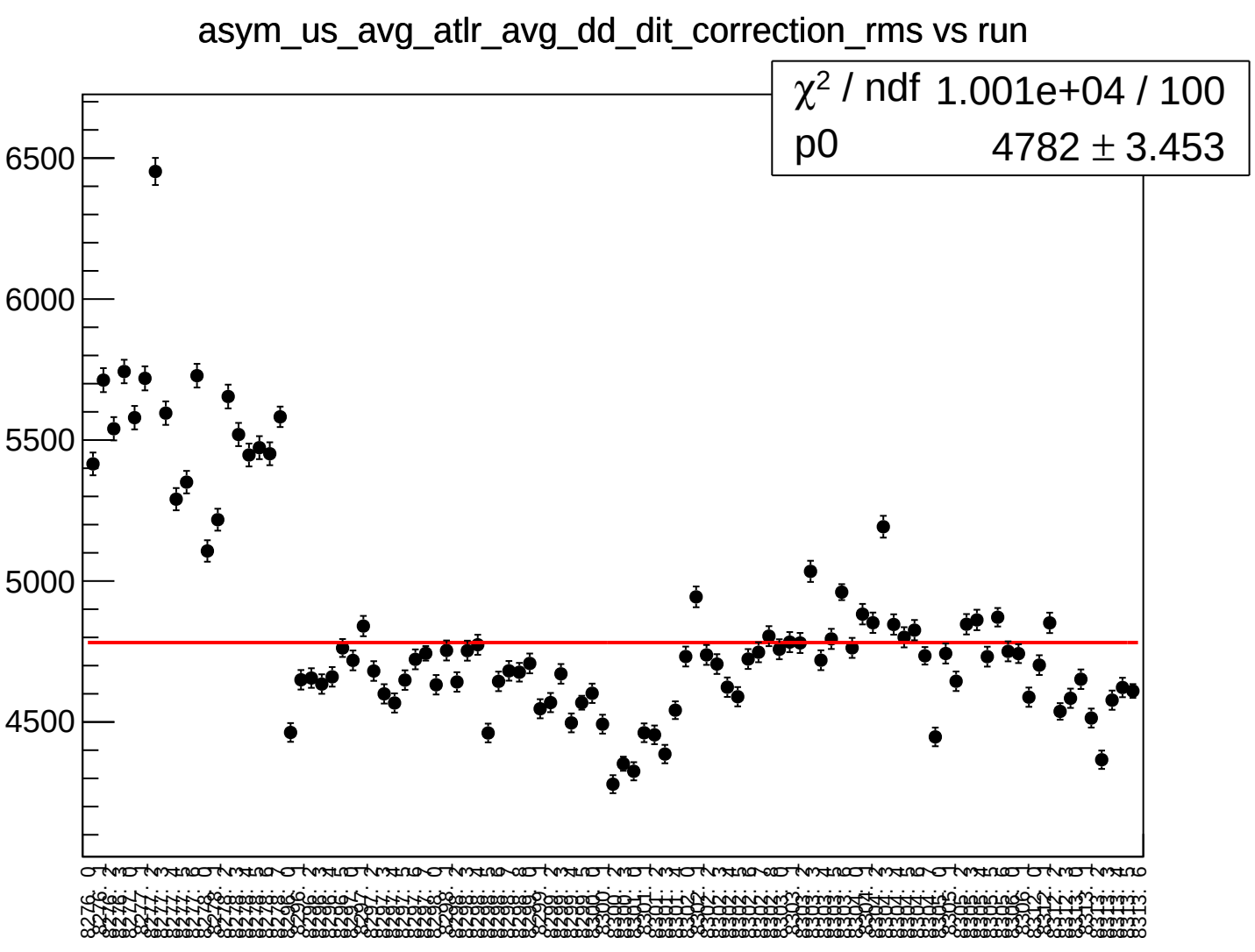

dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 134.1 / 100
p0 −468.5 ± 1159
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 198.2
Std Dev 0
3
2
1
0
−1
−2

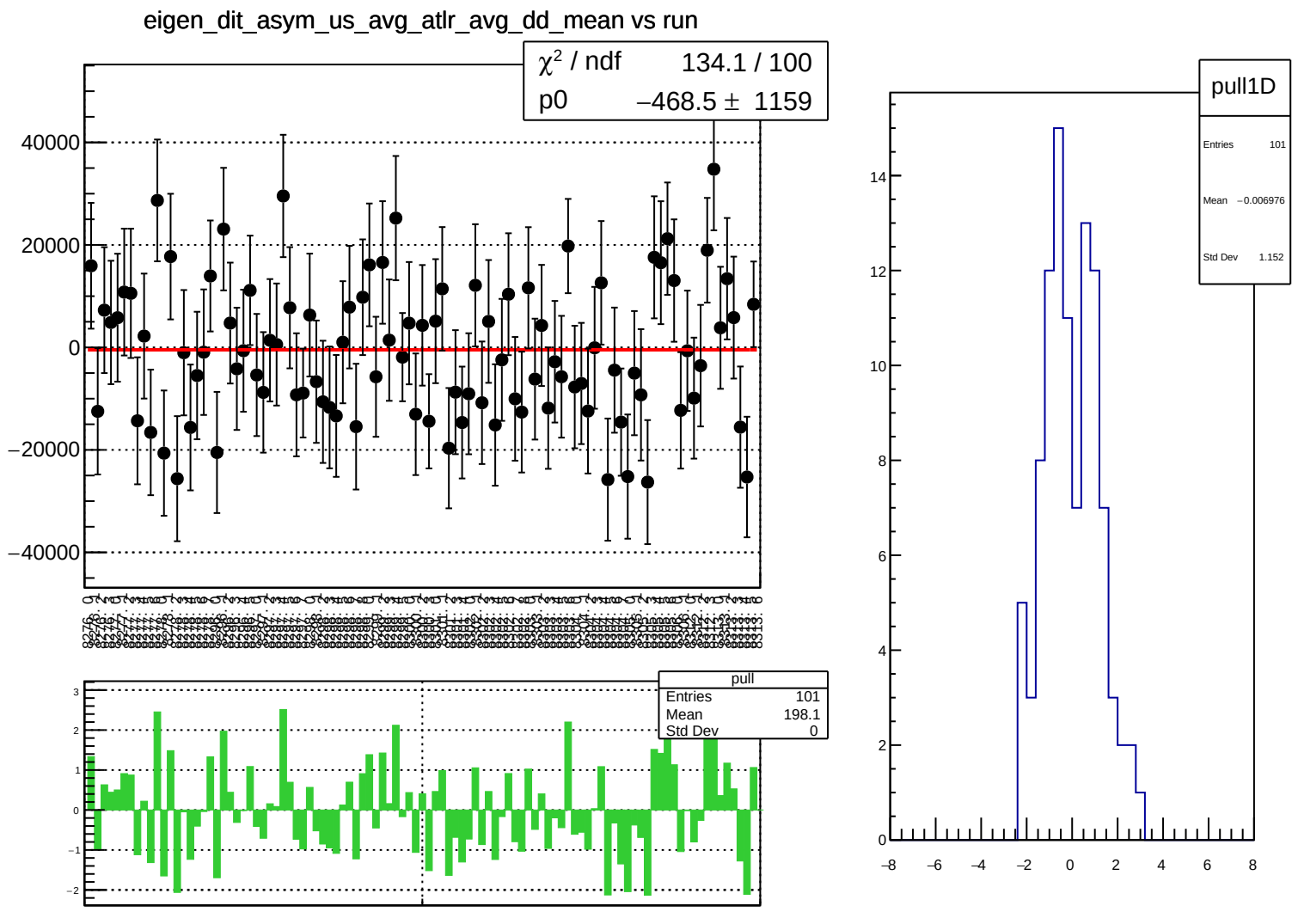

pull1D
Entries 101
Mean −0.006976
Std Dev 1.152
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

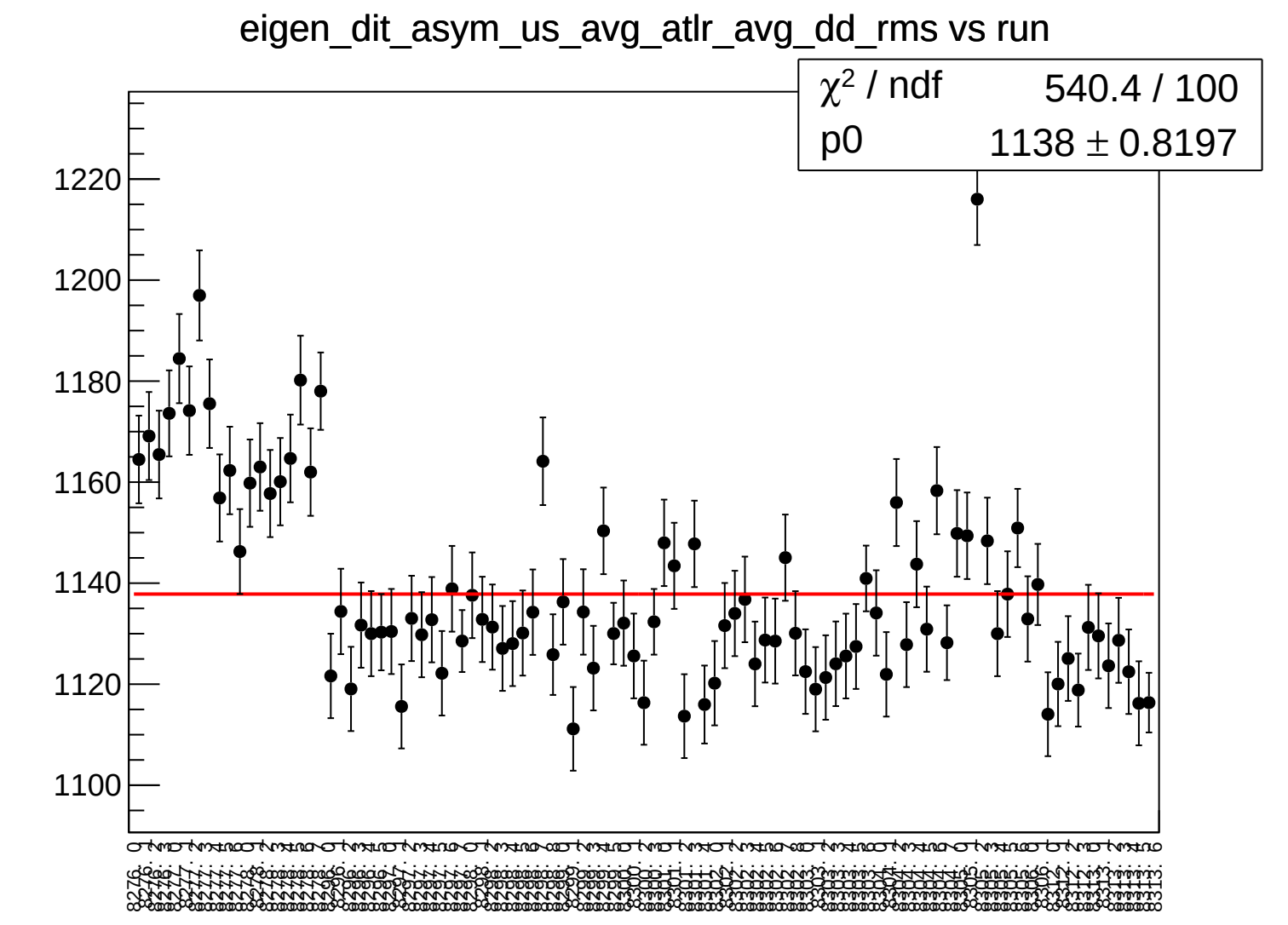

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 540.5 / 100
p0 1138 ± 0.8197
1220
1200
1180
1160
1140
1120
1100

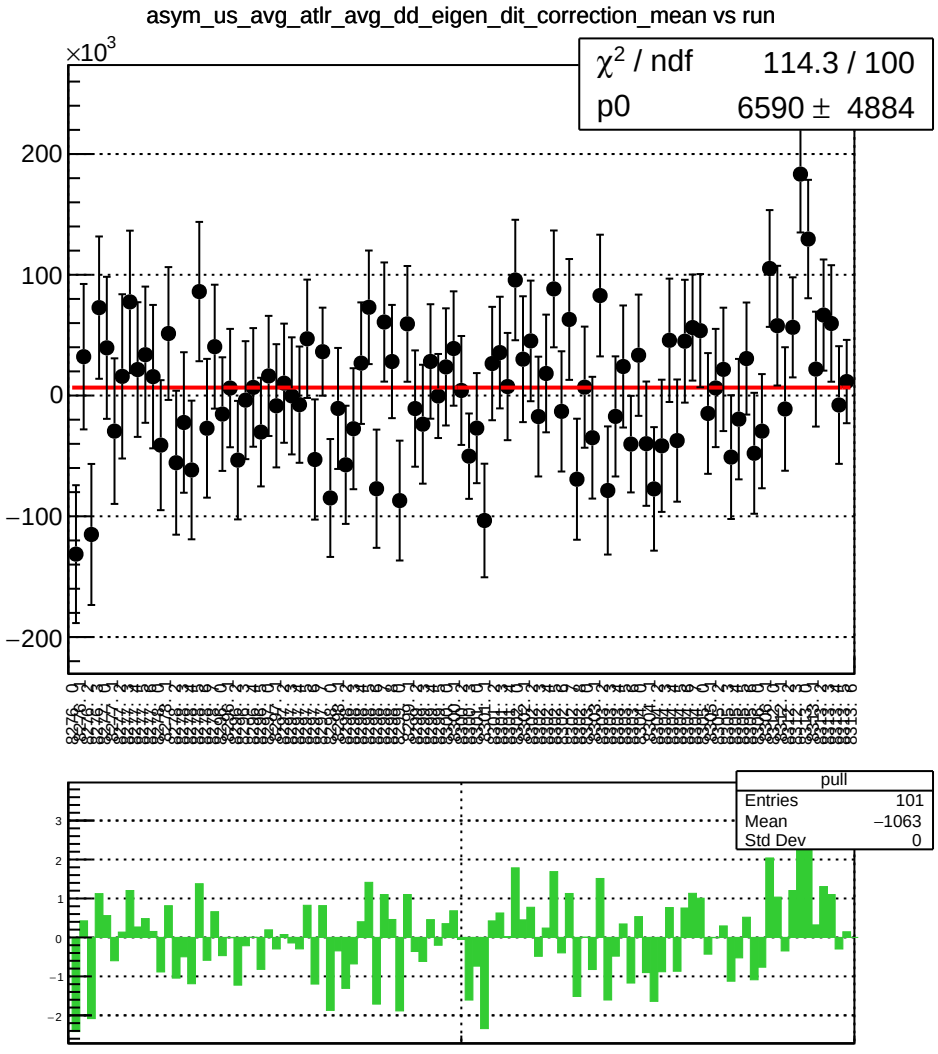

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 114.3 / 100
p0 6590 ± 4884
200
100
0
−100
−200
pull
Entries 101
Mean −1063
Std Dev 0
3
2
1
0
−1
−2

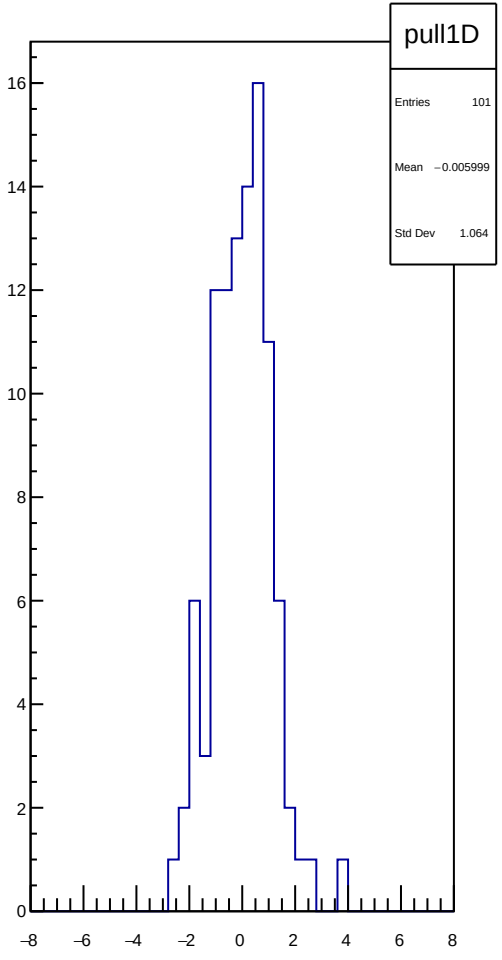

pull1D
Entries 101
Mean −0.005999
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

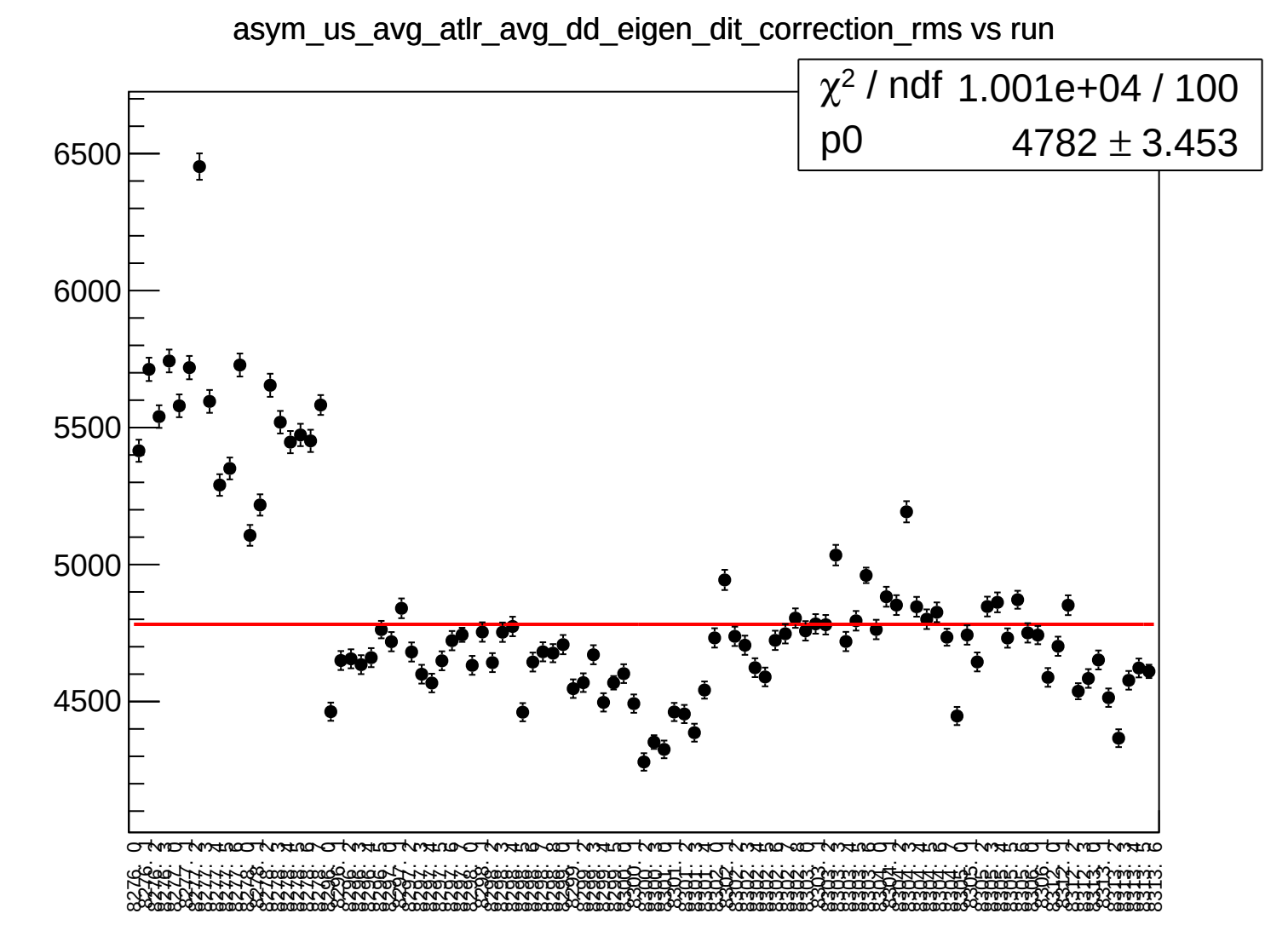

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ² / ndf 1.001e+04 / 100
p0 4782 ± 3.453
6500
6000
5500
5000
4500

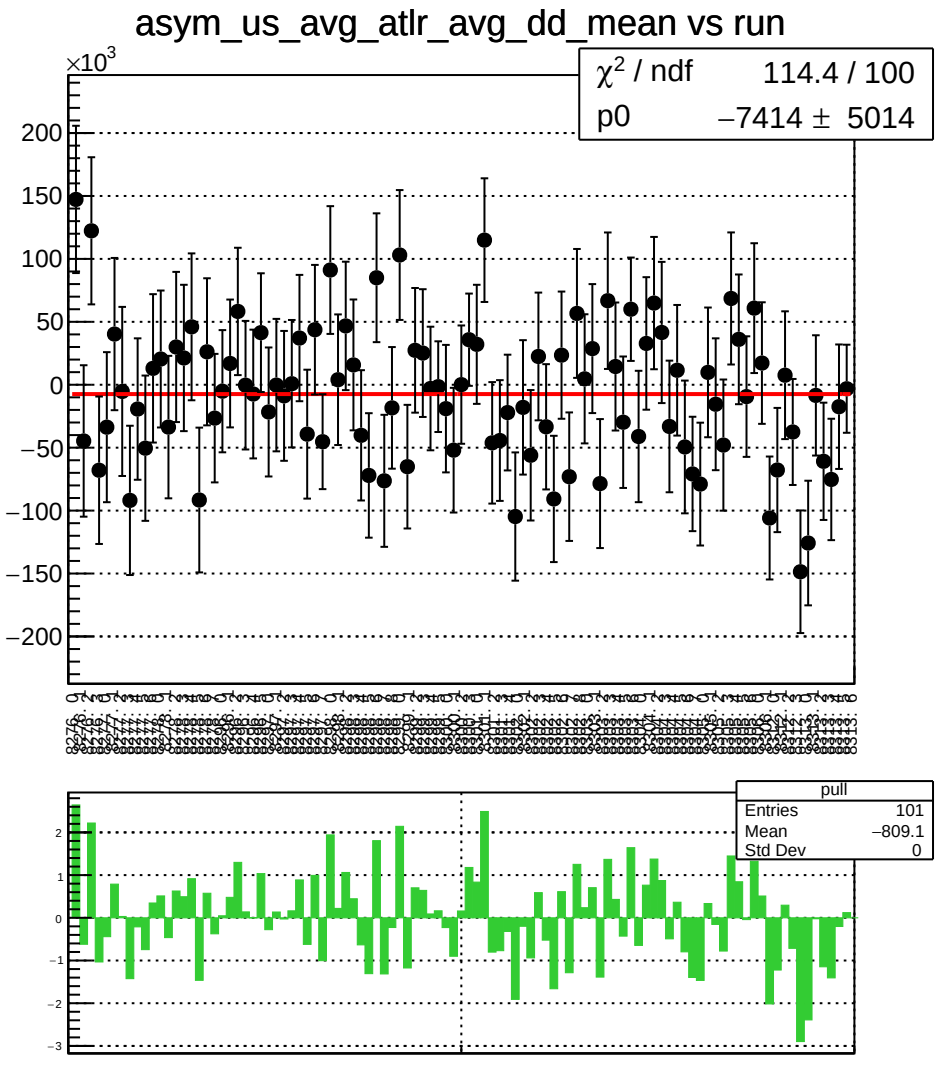

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 134.1 / 100
p0 −468.5 ± 1159
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 198.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.006976
Std Dev 1.152
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

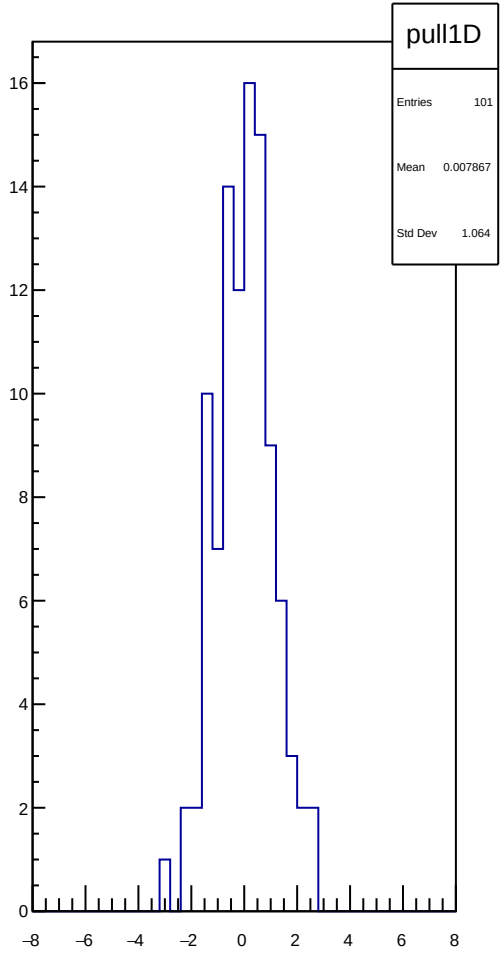

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ^2 / ndf 540.4 / 100
p0 1138 ± 0.8197
1220
1200
1180
1160
1140
1120
1100

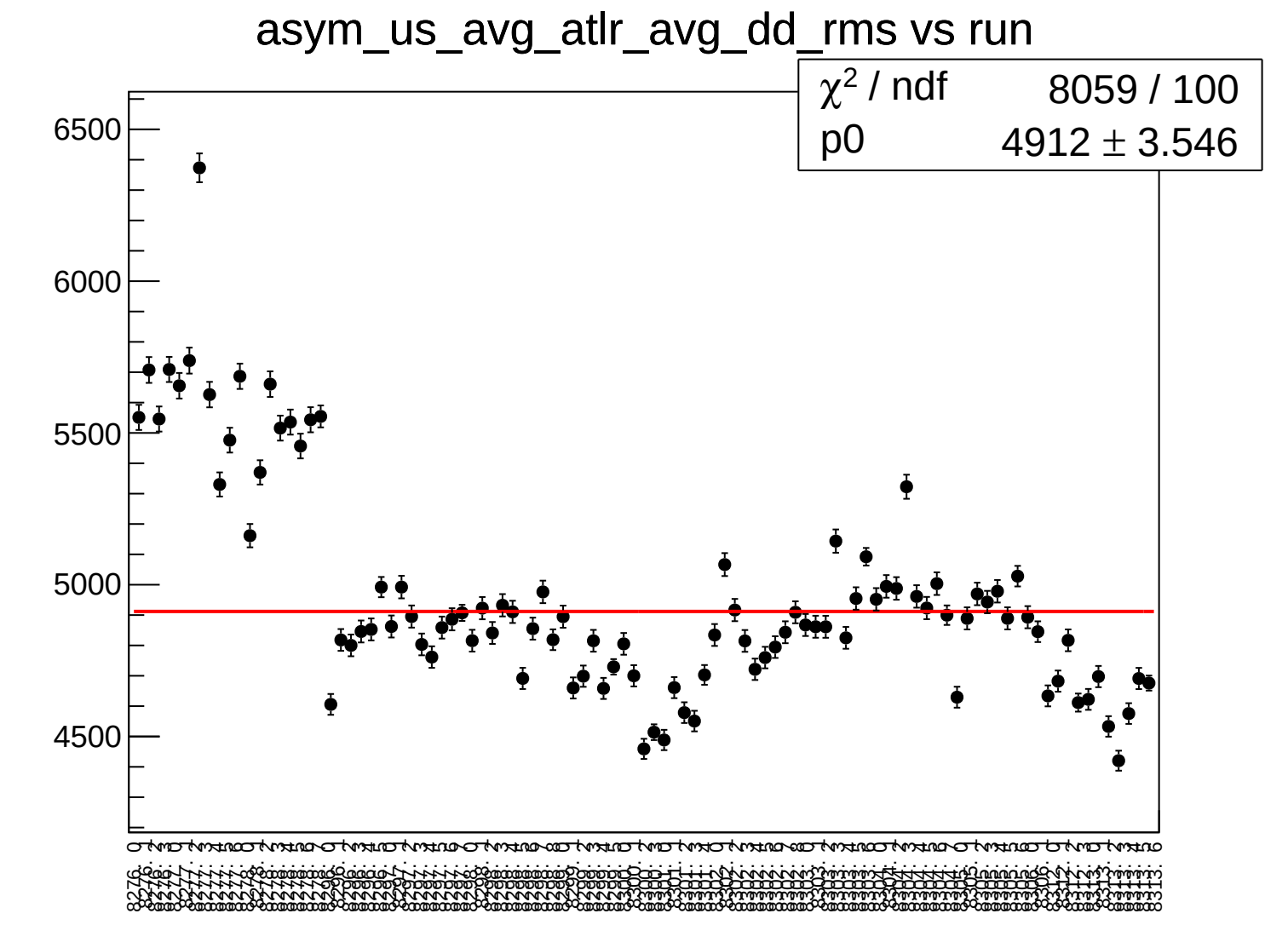

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 114.3 / 100
p0 6590 ± 4884
200
100
0
−100
−200
pull
Entries 101
Mean −1063
Std Dev 0
3
2
1
0
−1
−2

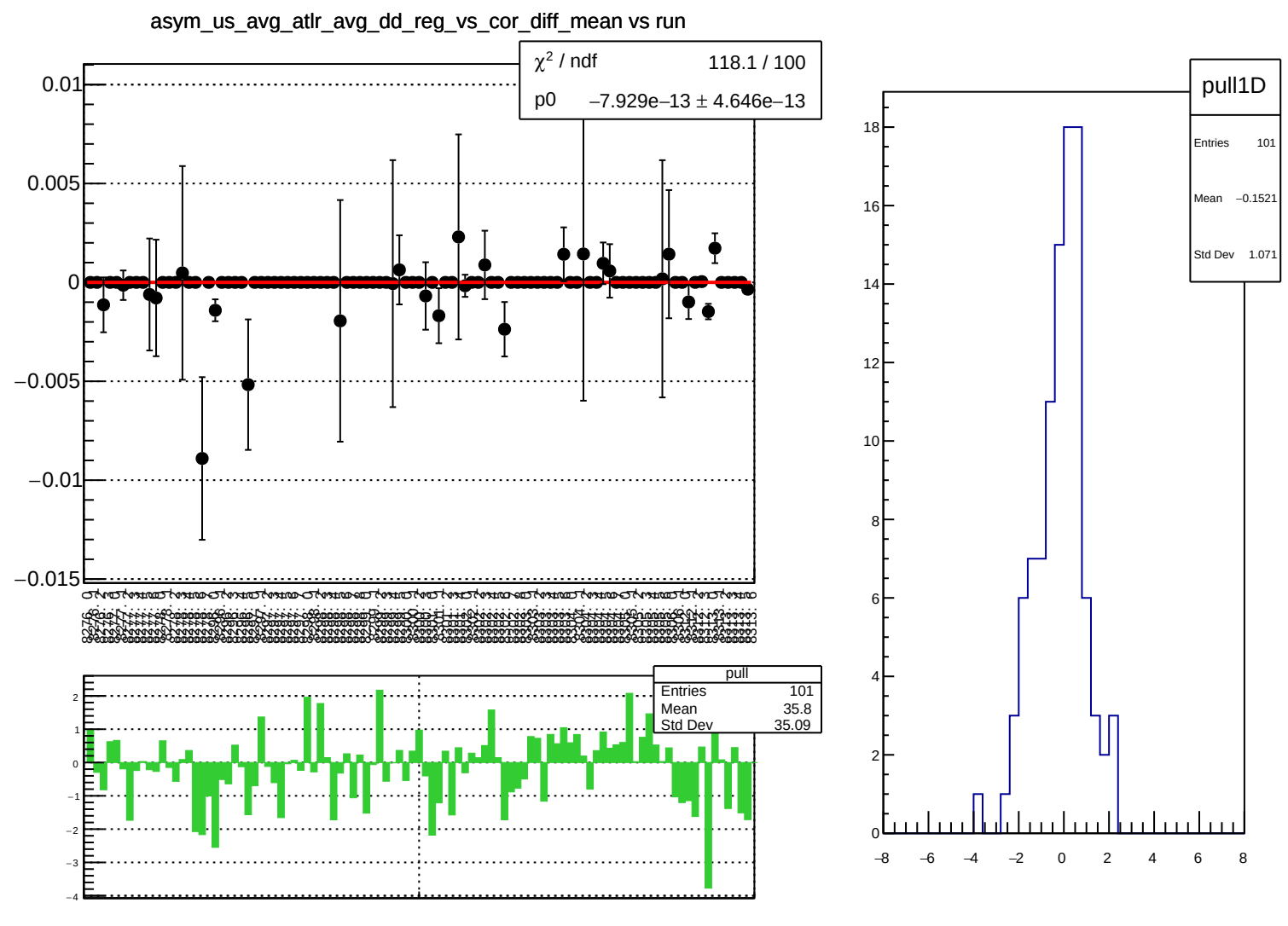

pull1D
Entries 101
Mean −0.005999
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

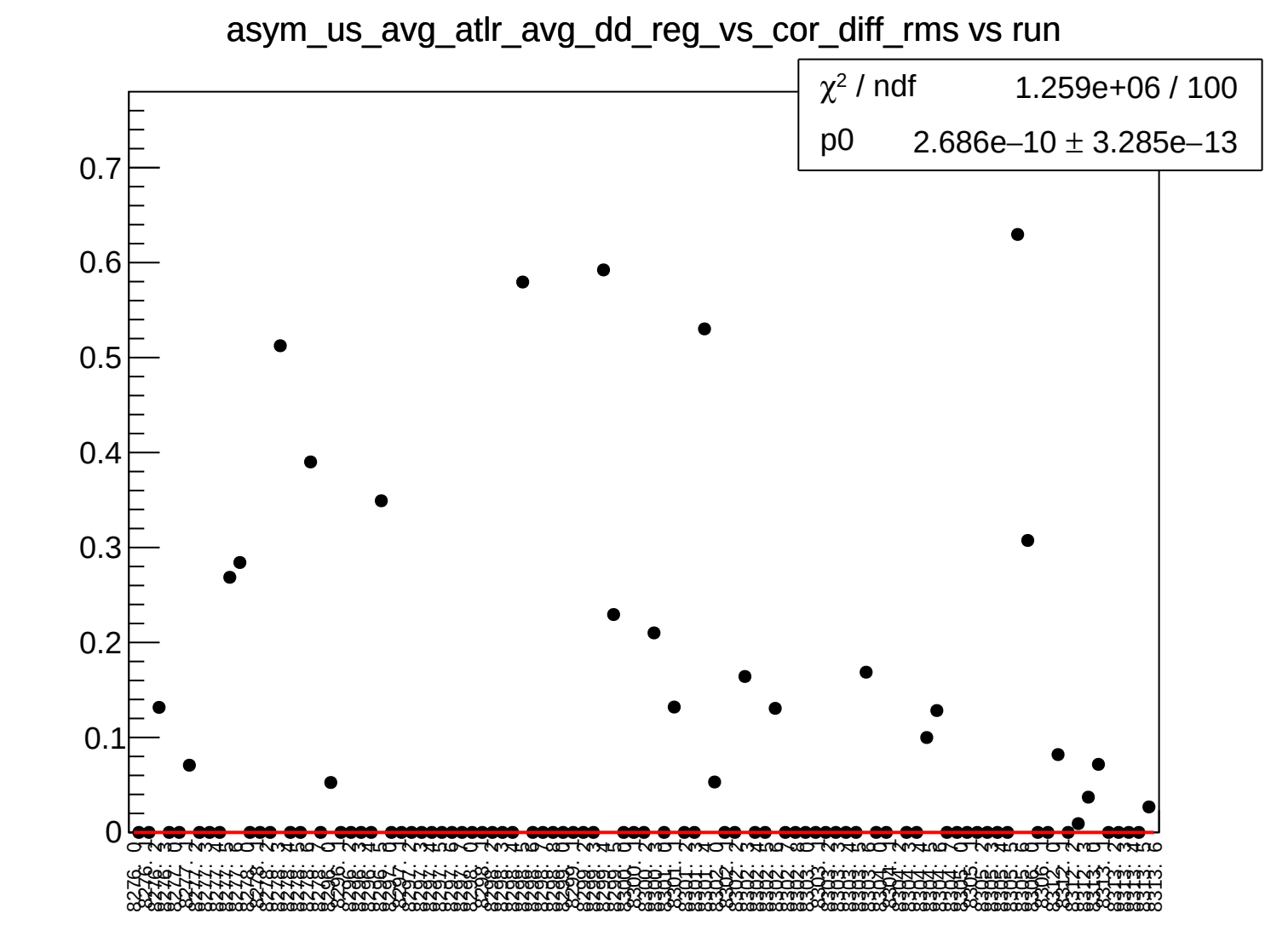

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.001e+04 / 100
p0 4782 ± 3.453
6500
6000
5500
5000
4500

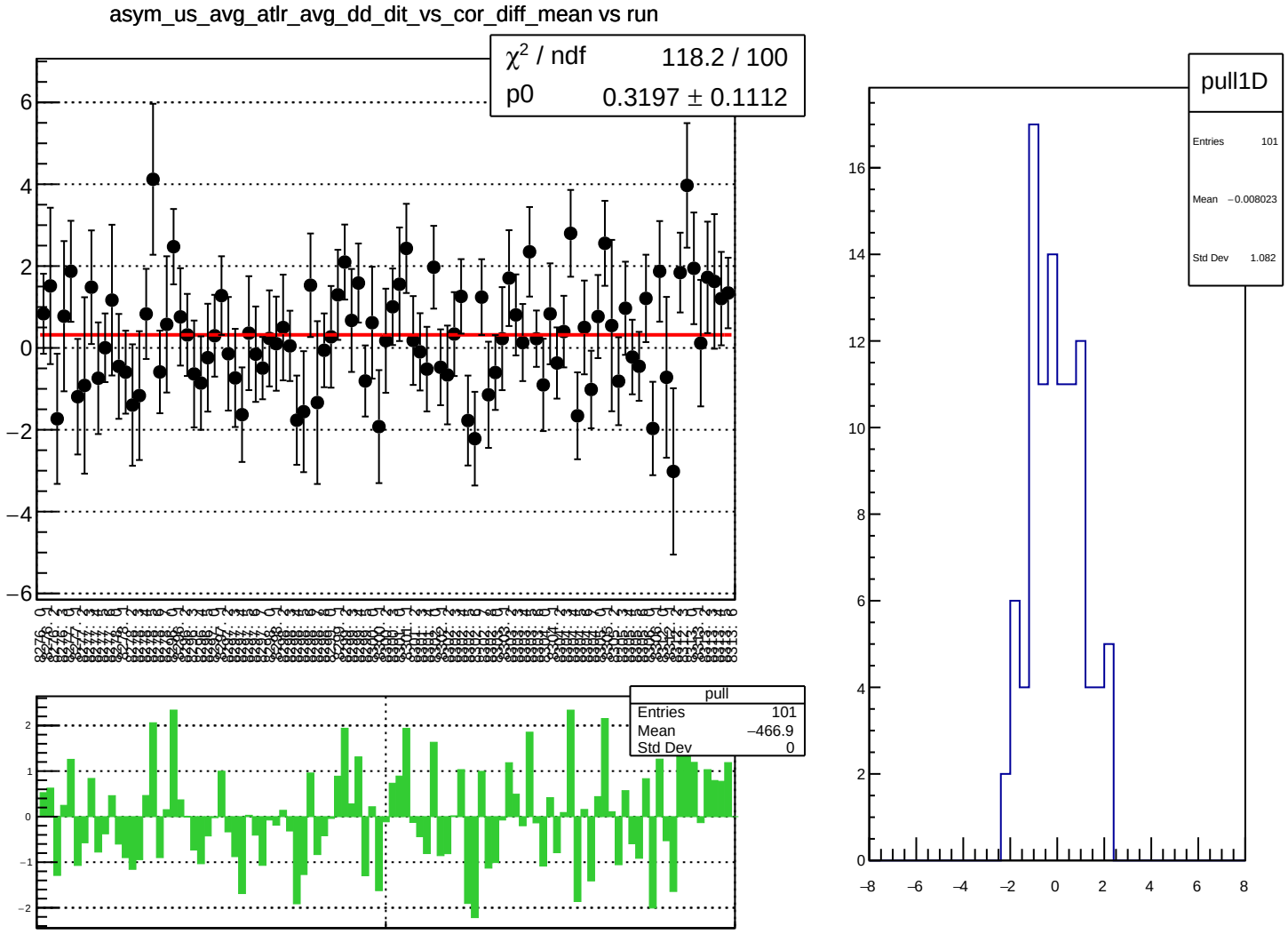

asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ^2 / ndf 114.4 / 100
p0 −7414 ± 5014
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 101
Mean −809.1
Std Dev 0
2
1
0
−1
−2
−3

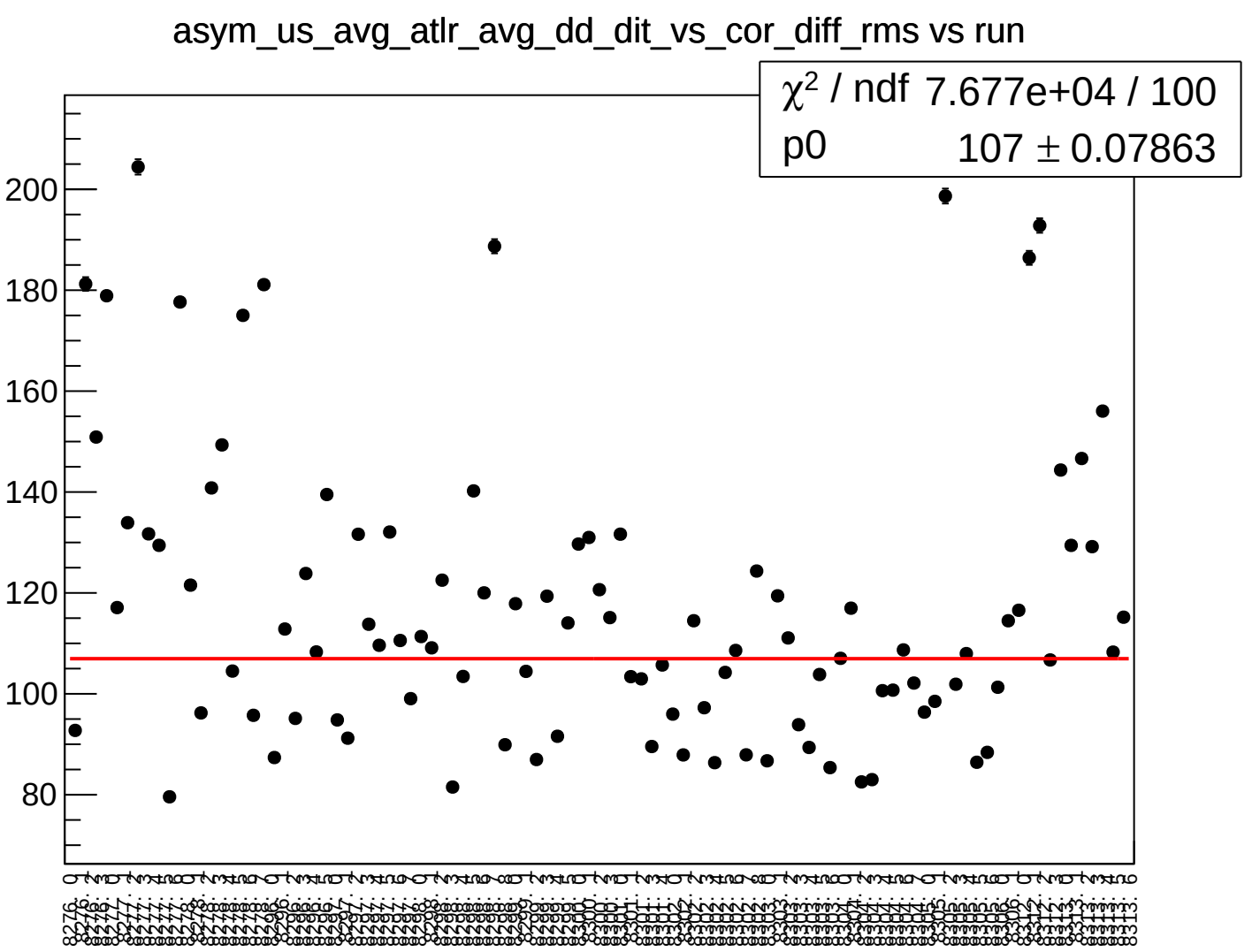

pull1D
Entries 101
Mean 0.007867
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

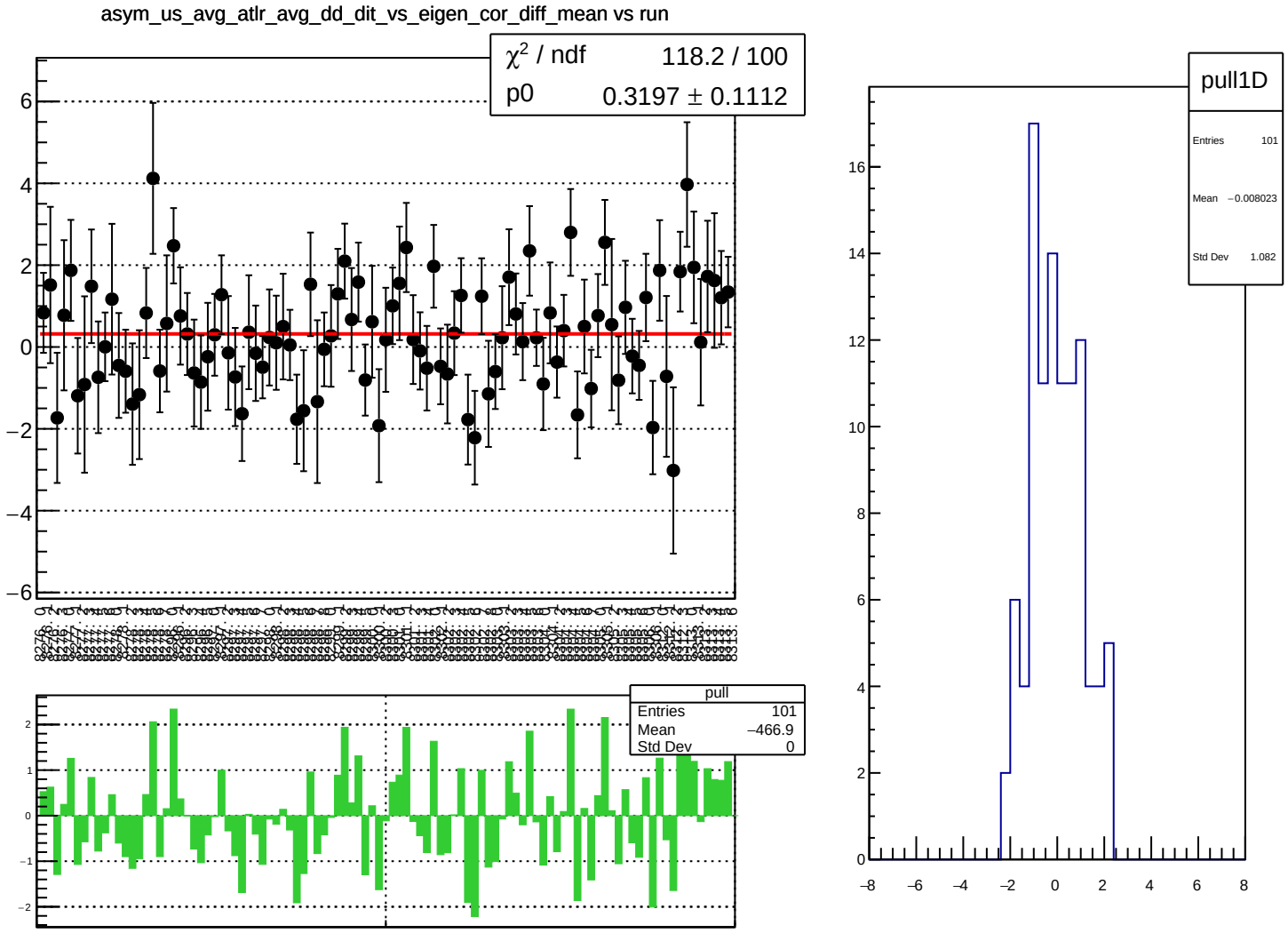

asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 8059 / 100
p0 4912 ± 3.546
6500
6000
5500
5000
4500

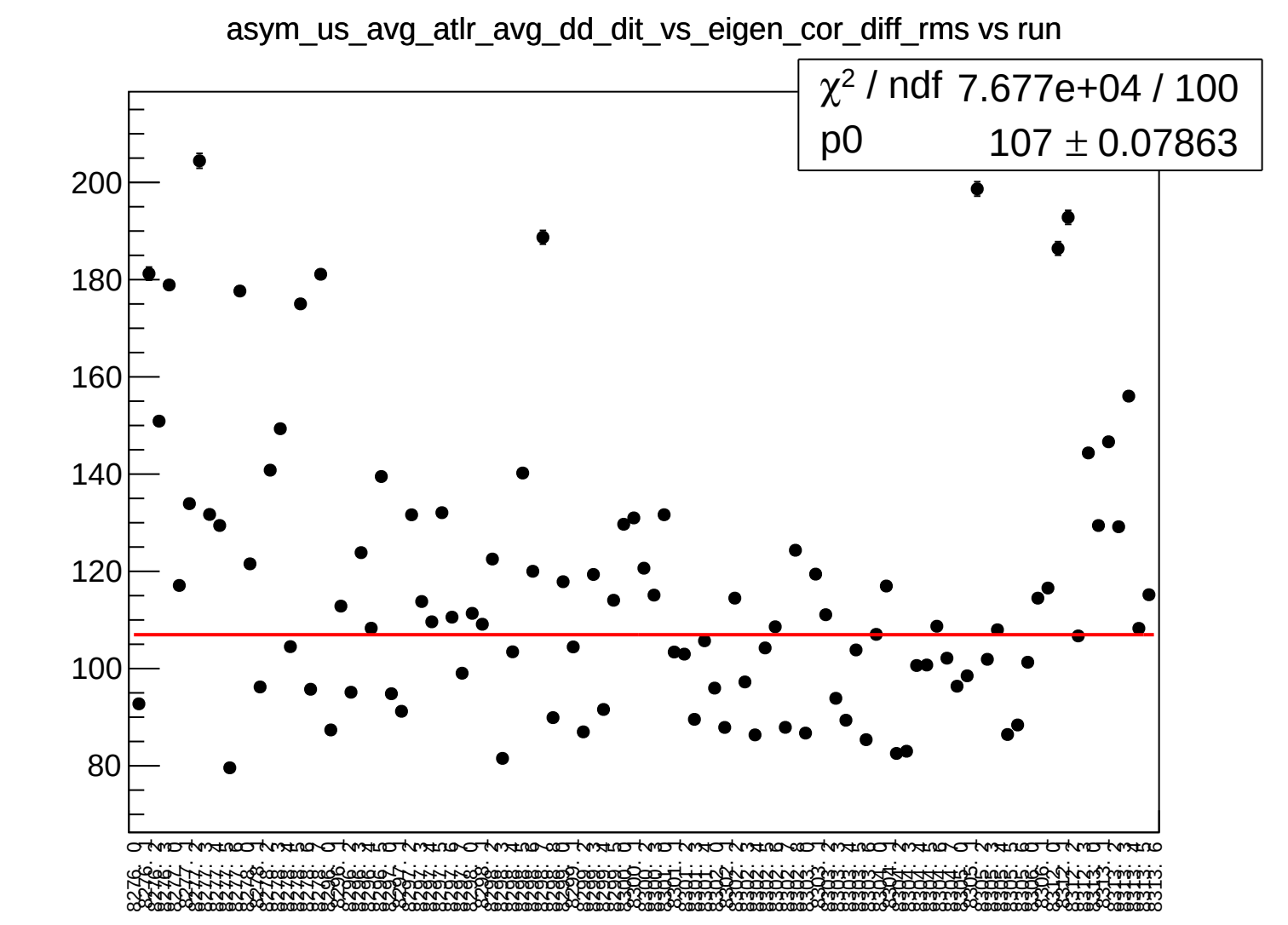

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 118.1 / 100
p0 −7.929e−13 ± 4.646e−13
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 101
Mean 35.8
Std Dev 35.09
2
1
0
−1
−2
−3
−4
pull1D
Entries 101
Mean −0.1521
Std Dev 1.071
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

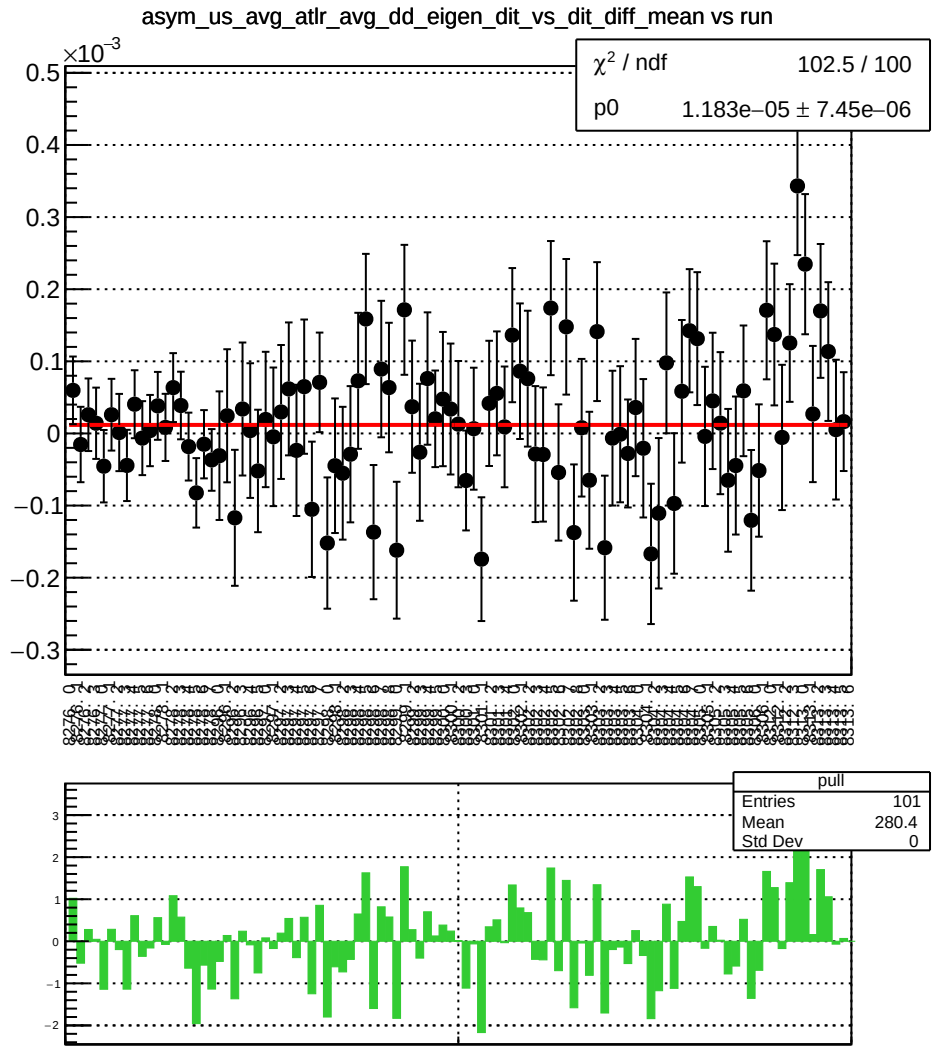

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.259e+06 / 100
p0 2.686e−10 ± 3.285e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

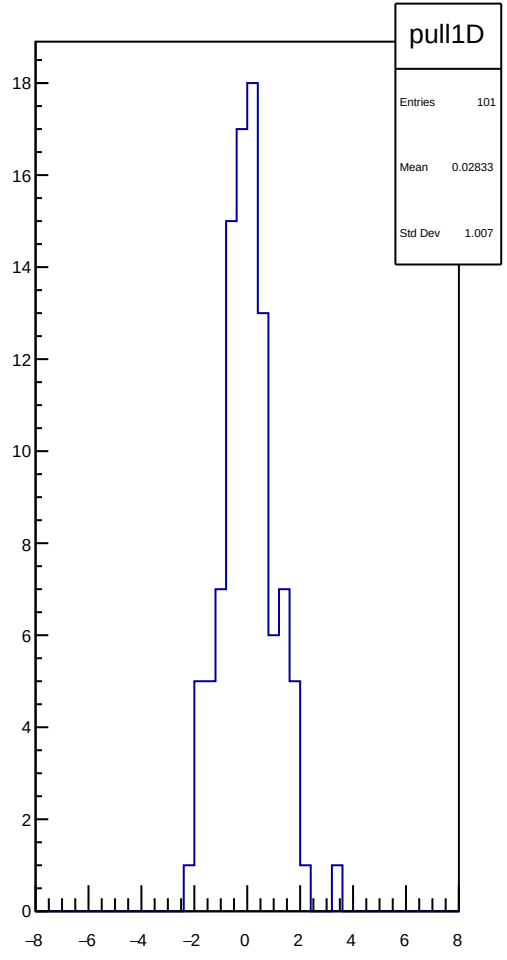

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 118.2 / 100
p0 0.3197 ± 0.1112
pull
Entries 101
Mean −466.9
Std Dev 0
pull1D
Entries 101
Mean −0.008023
Std Dev 1.082

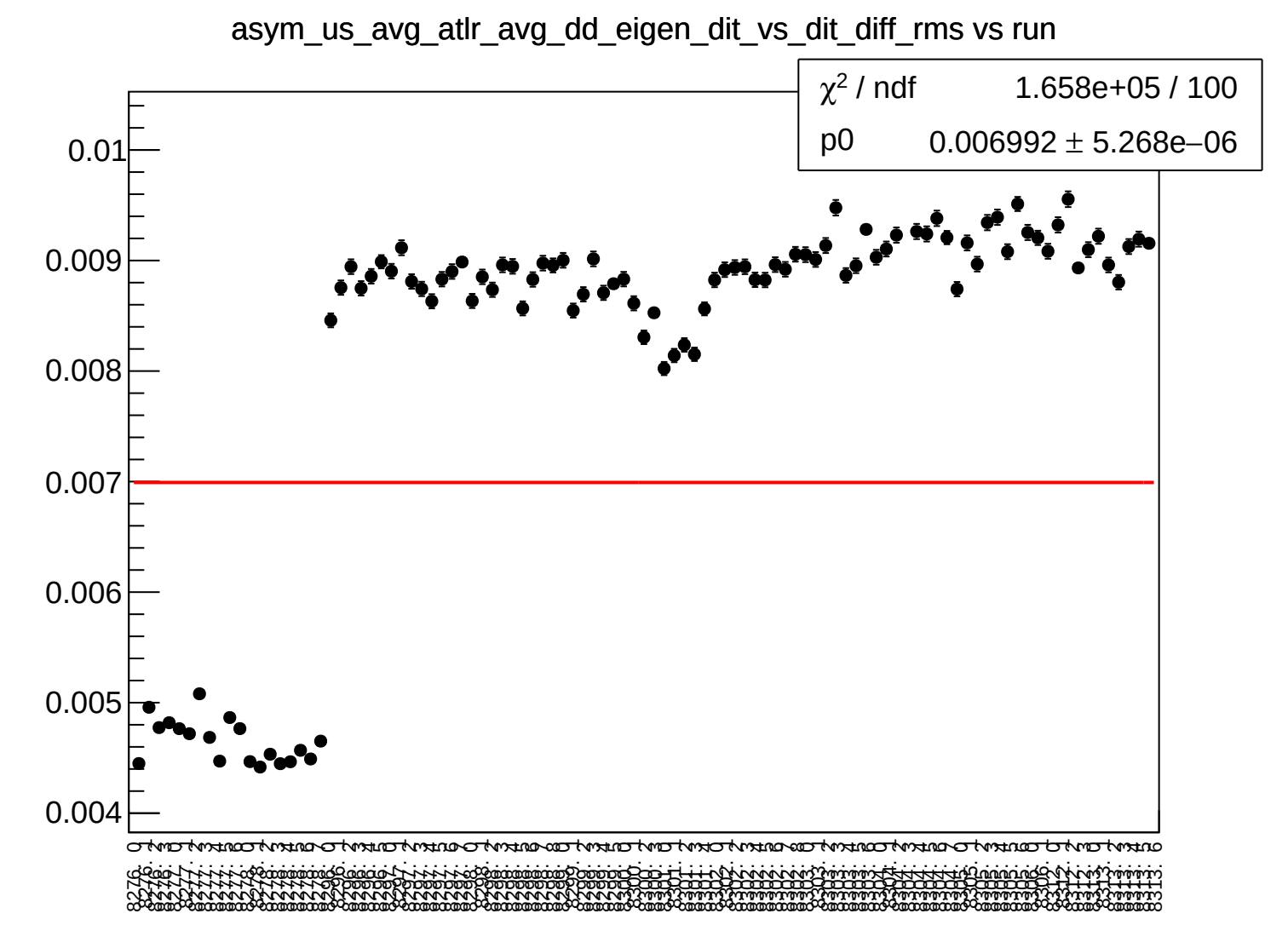

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.677e+04 / 100
p0 107 ± 0.07863
200
180
160
140
120
100
80

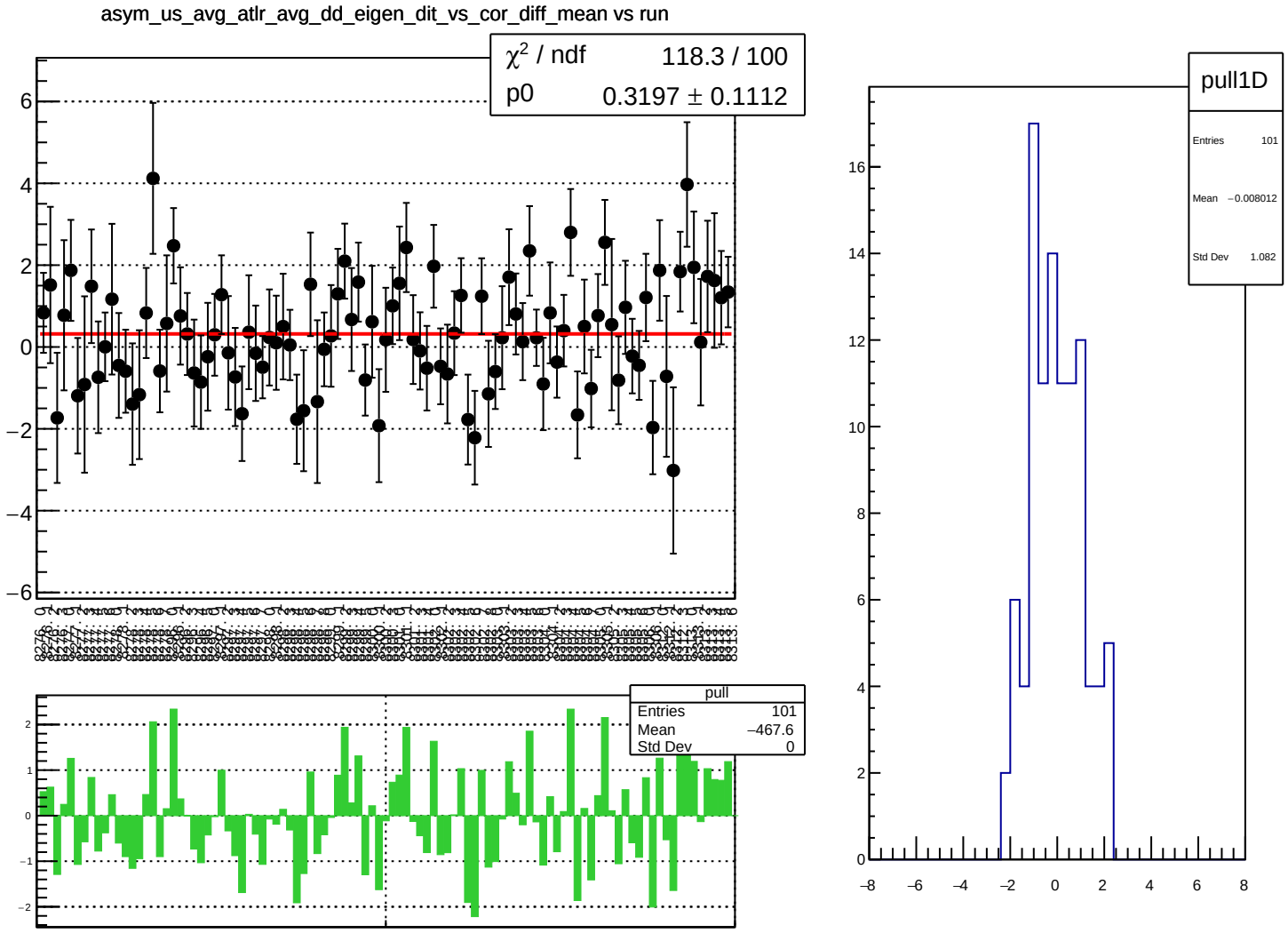

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 118.2 / 100
p0 0.3197 ± 0.1112
pull
Entries 101
Mean −466.9
Std Dev 0
pull1D
Entries 101
Mean −0.008023
Std Dev 1.082

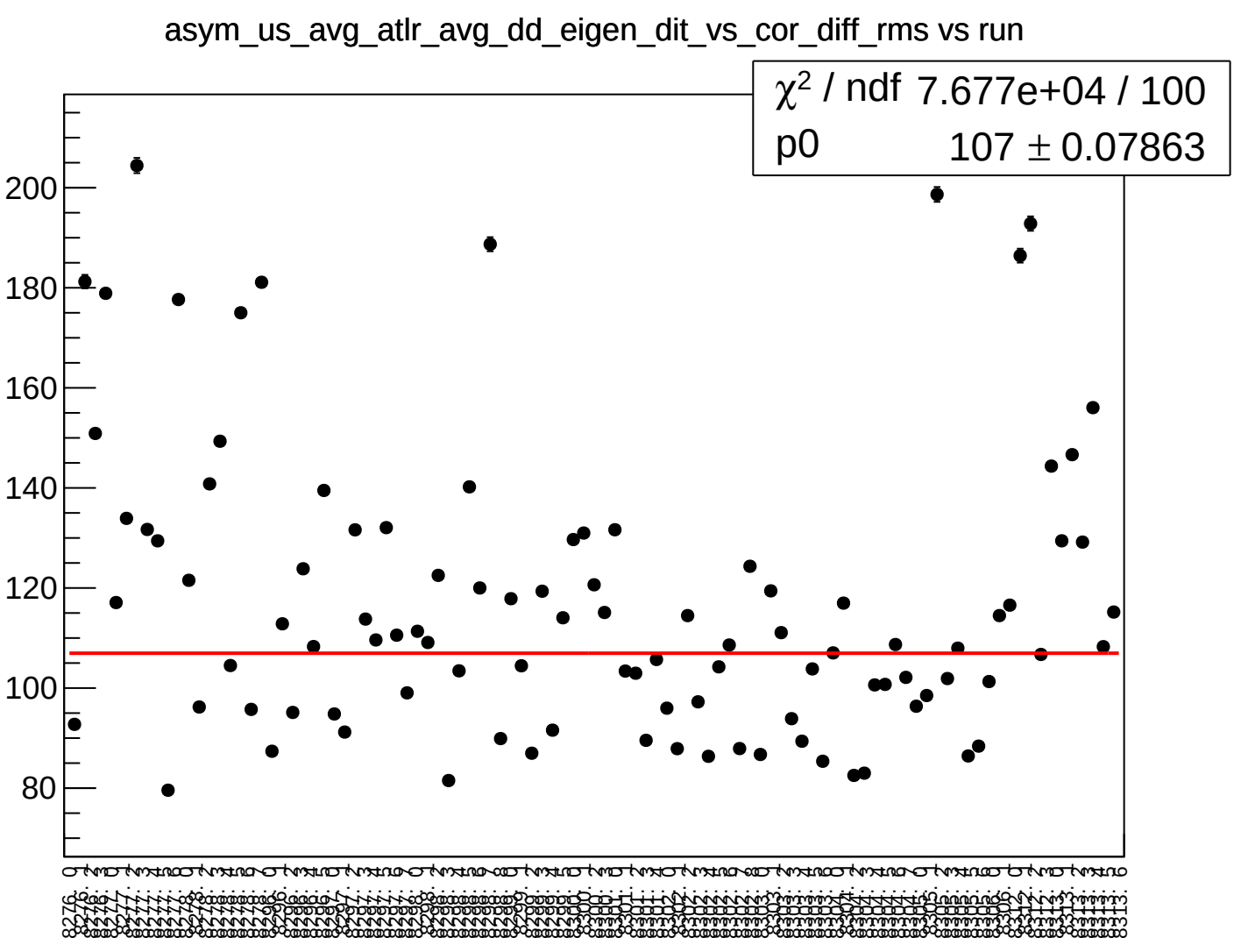

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.677e+04 / 100
p0 107 ± 0.07863
200
180
160
140
120
100
80

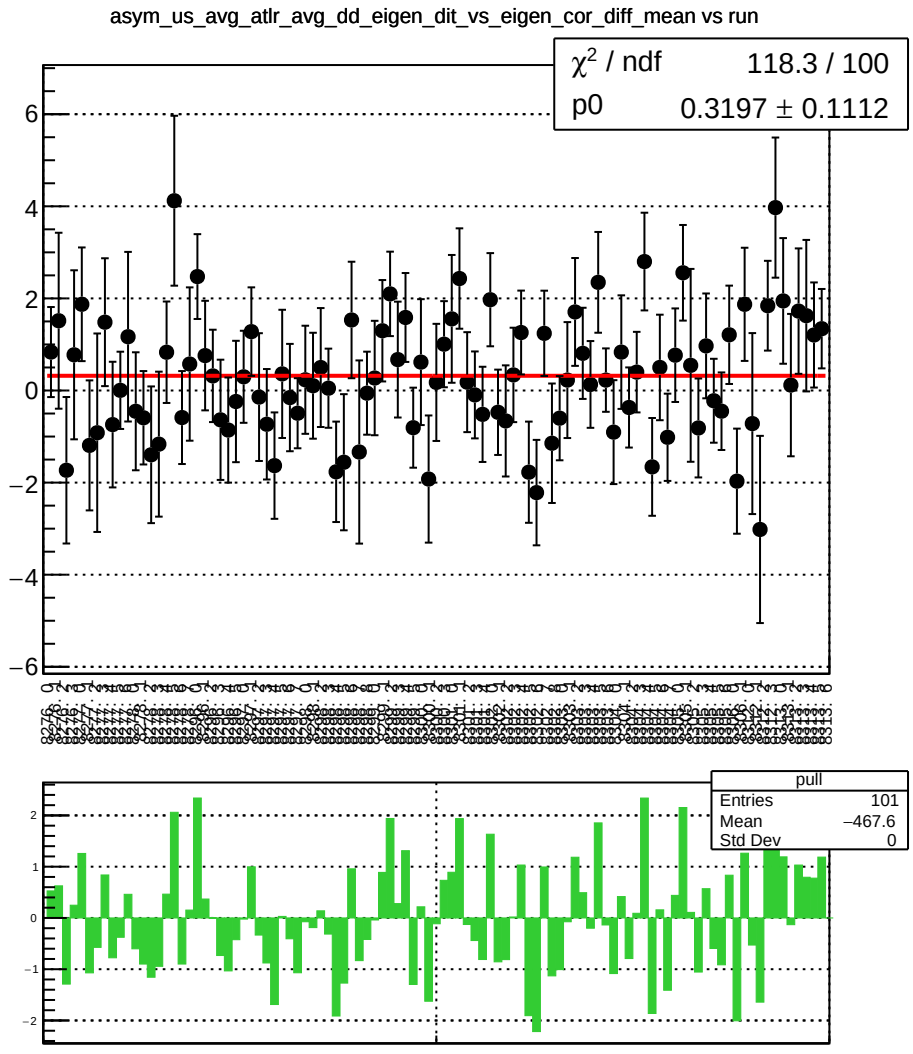

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 102.5 / 100
p0 1.183e−05 ± 7.45e−06
pull
Entries 101
Mean 280.4
Std Dev 0

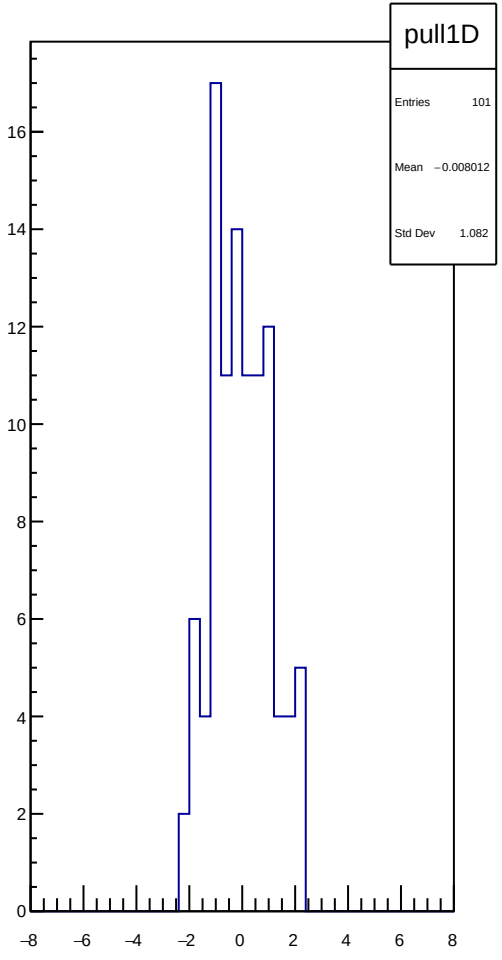

pull1D
Entries 101
Mean 0.02833
Std Dev 1.007

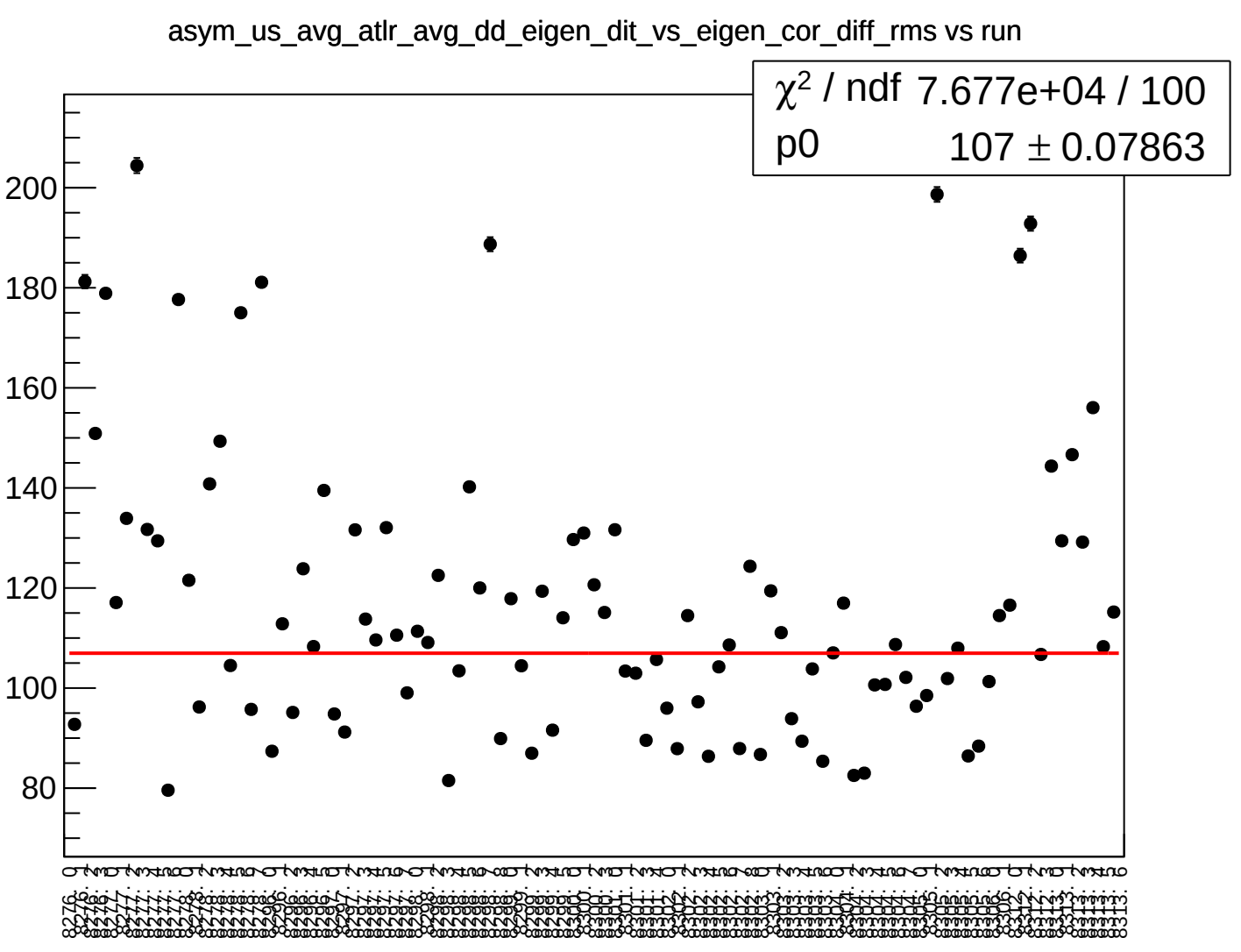

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.658e+05 / 100
p0 0.006992 ± 5.268e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004

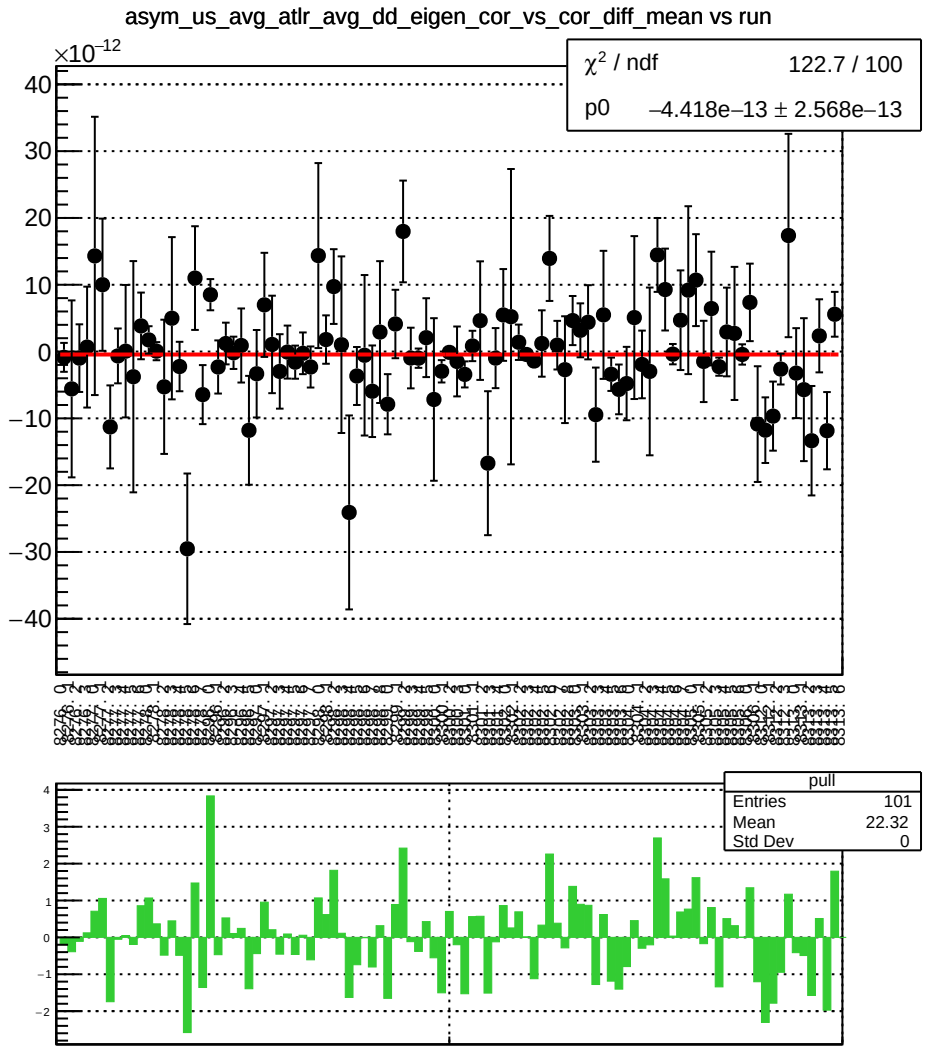

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 118.3 / 100
p0 0.3197 ± 0.1112
pull
Entries 101
Mean −467.6
Std Dev 0
pull1D
Entries 101
Mean −0.008012
Std Dev 1.082

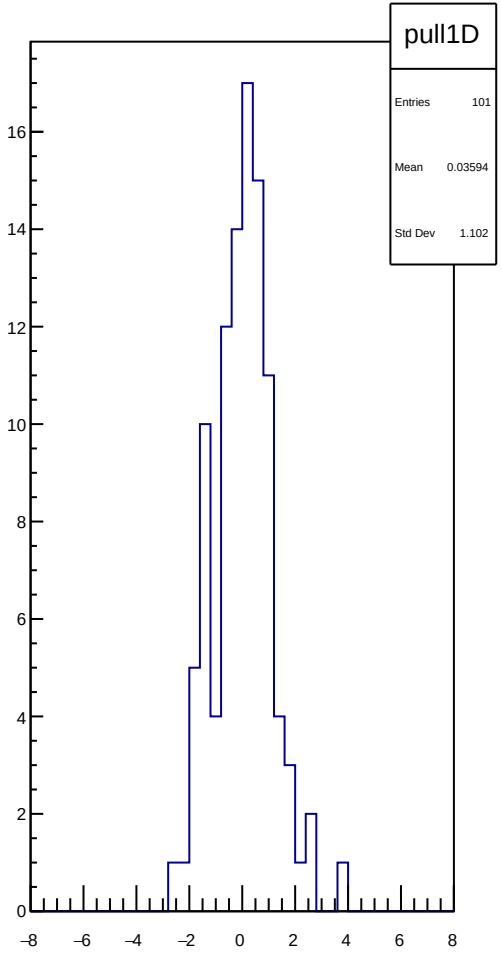

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.677e+04 / 100
p0 107 ± 0.07863
200
180
160
140
120
100
80

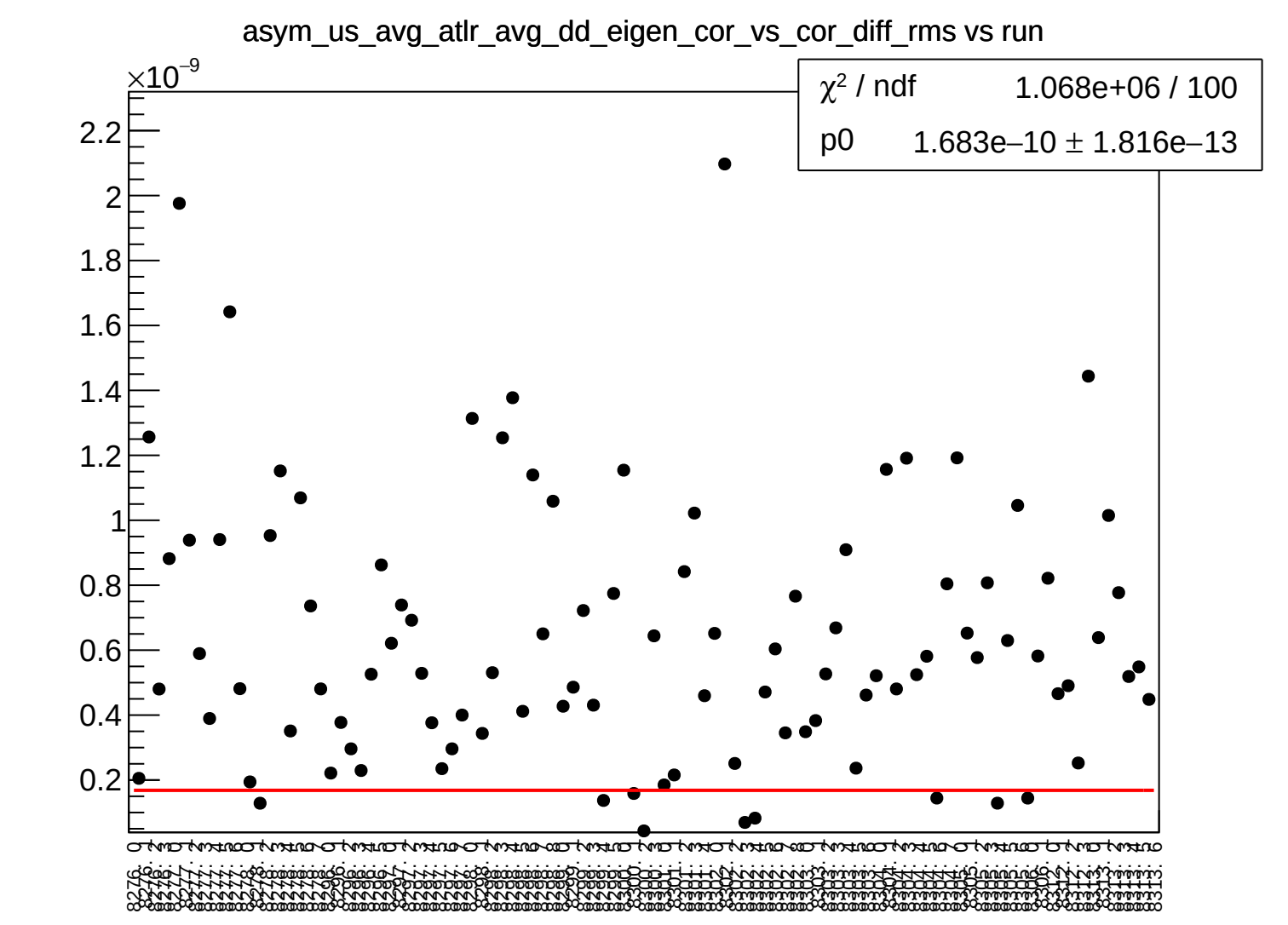

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 118.3 / 100
p0 0.3197 ± 0.1112
pull
Entries 101
Mean −467.6
Std Dev 0

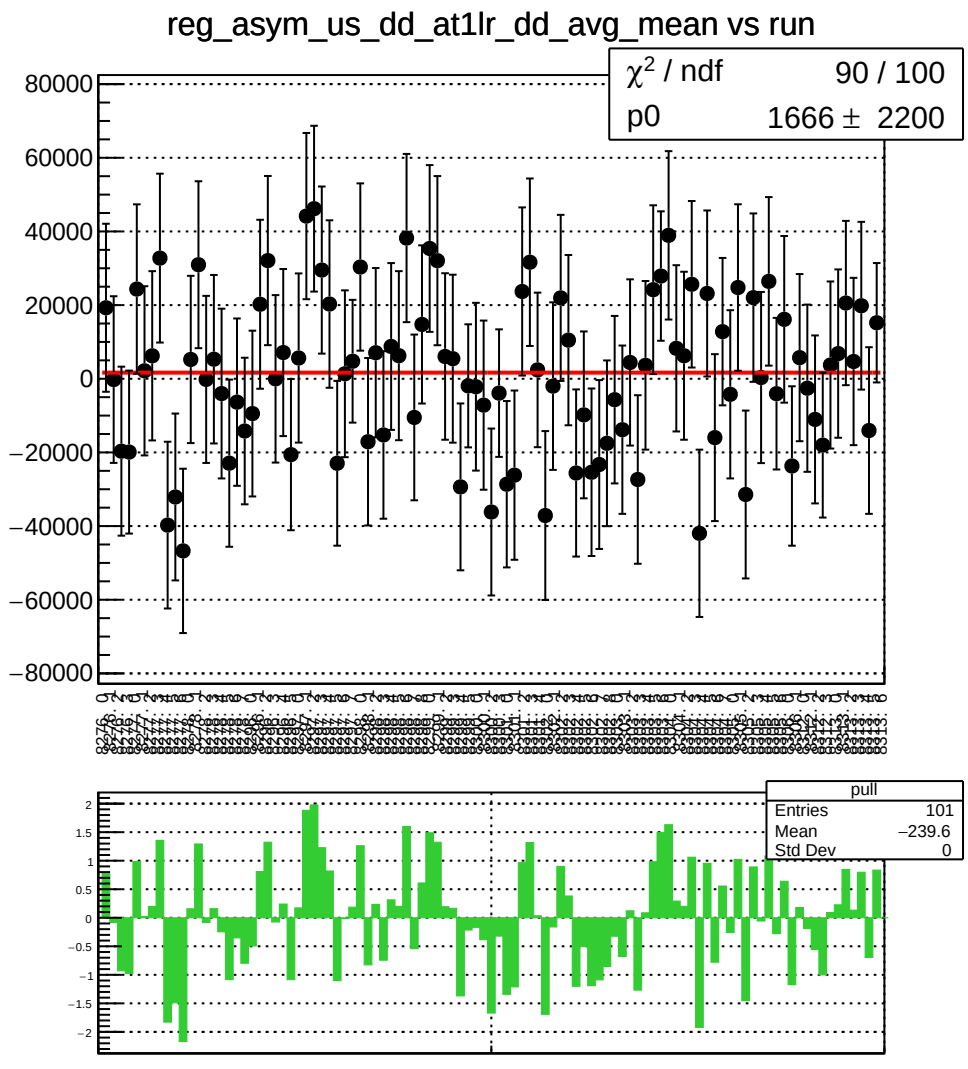

pull1D
Entries 101
Mean −0.008012
Std Dev 1.082

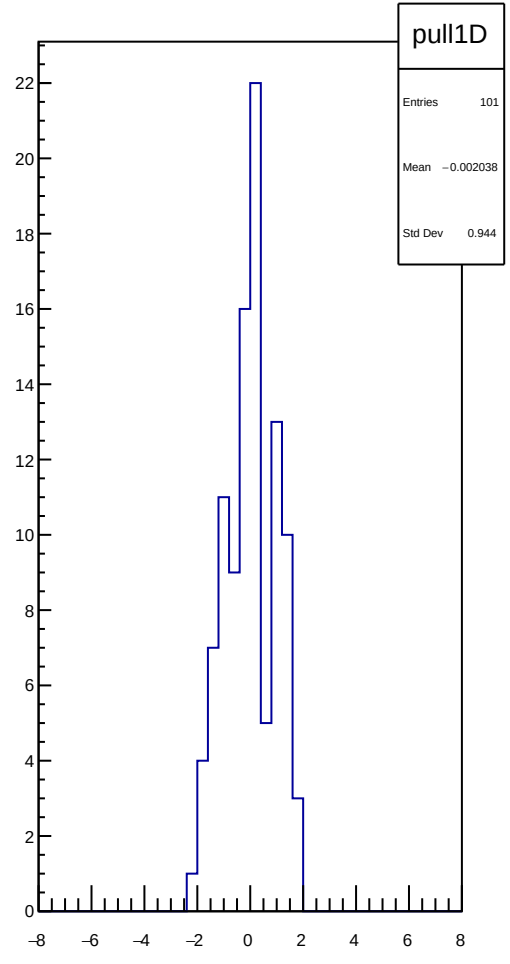

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.677e+04 / 100
p0 107 ± 0.07863
200
180
160
140
120
100
80

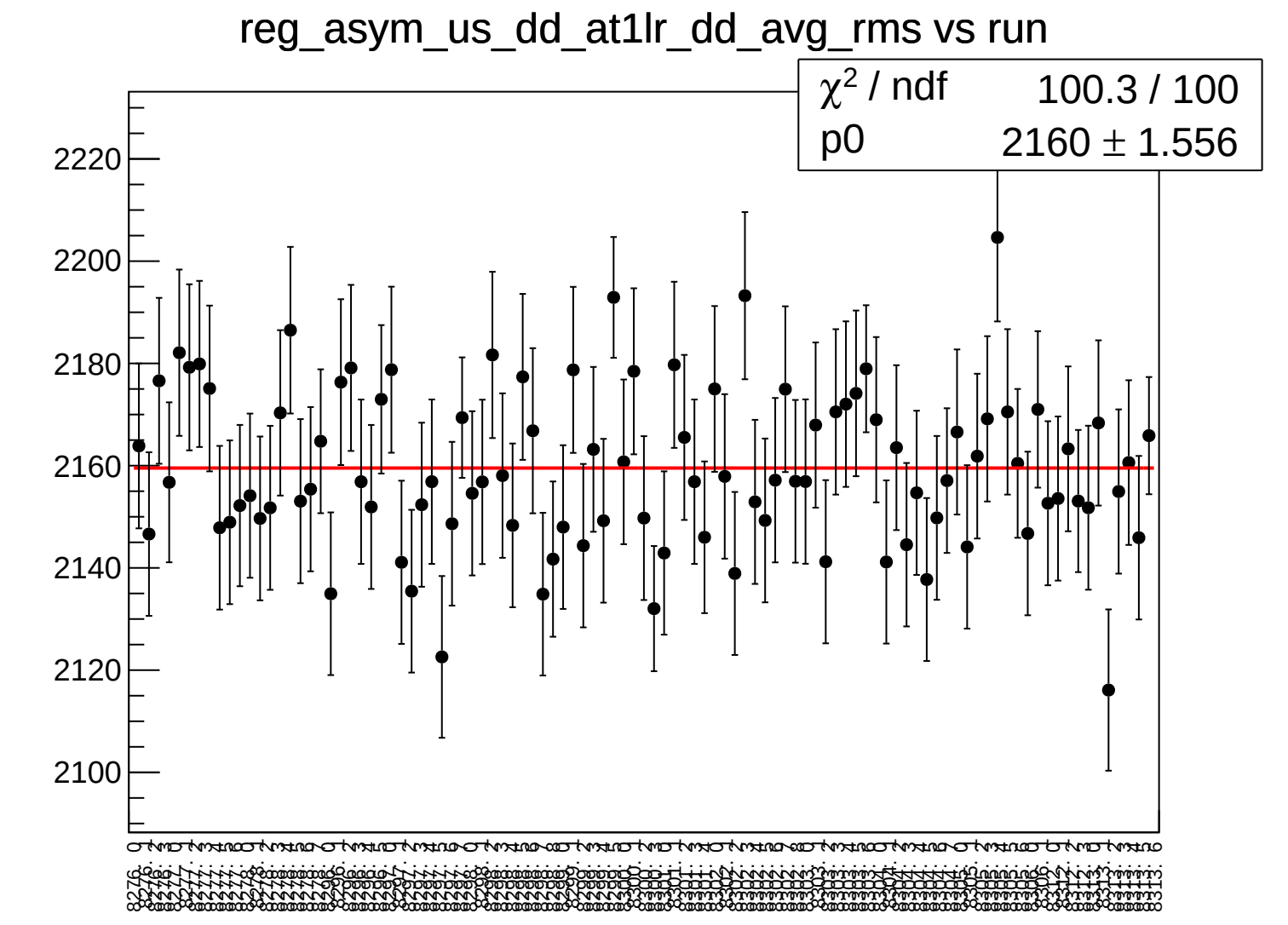

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 122.7 / 100
p0 −4.418e−13 ± 2.568e−13
pull
Entries 101
Mean 22.32
Std Dev 0

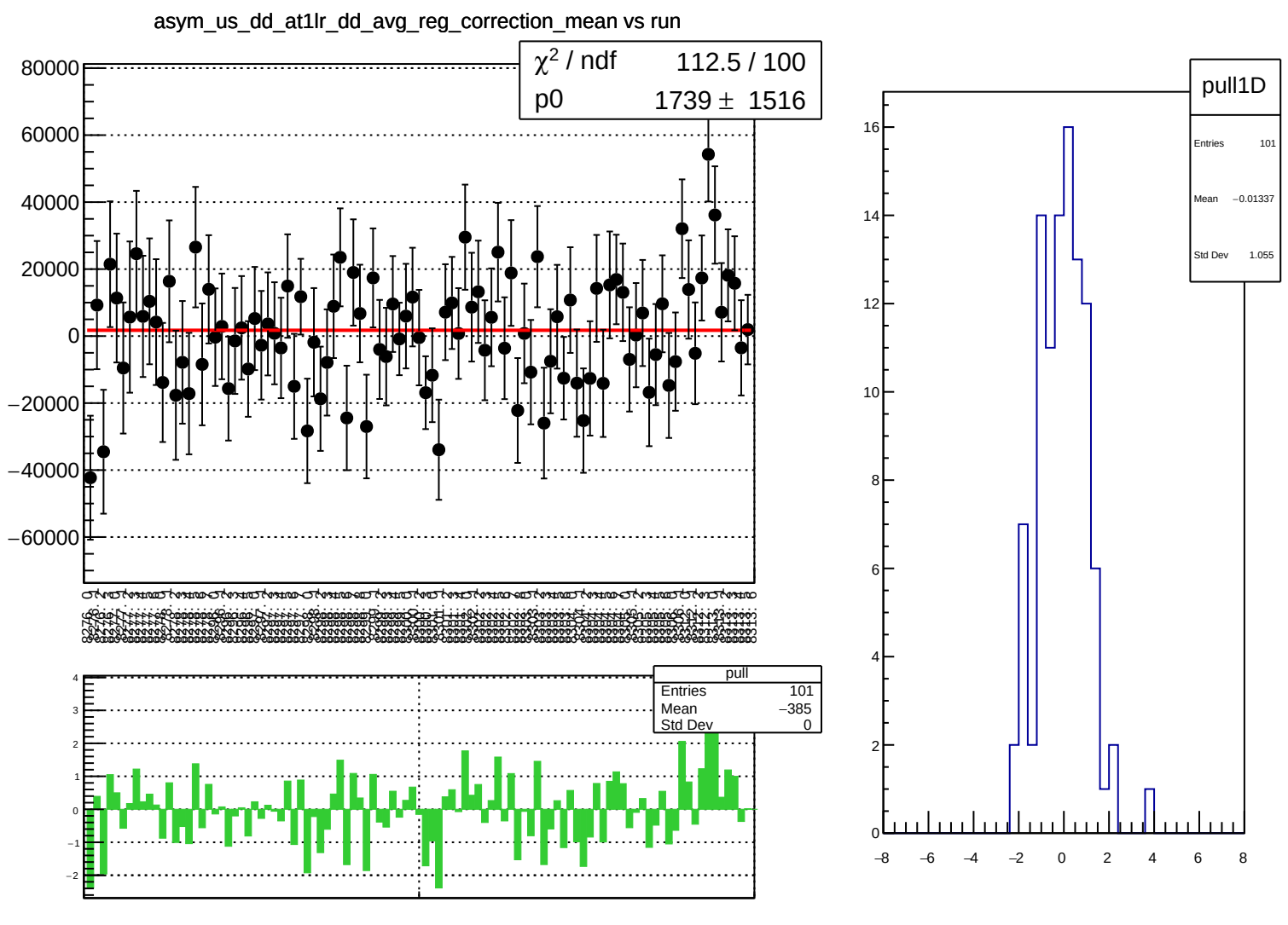

pull1D
Entries 101
Mean 0.03594
Std Dev 1.102

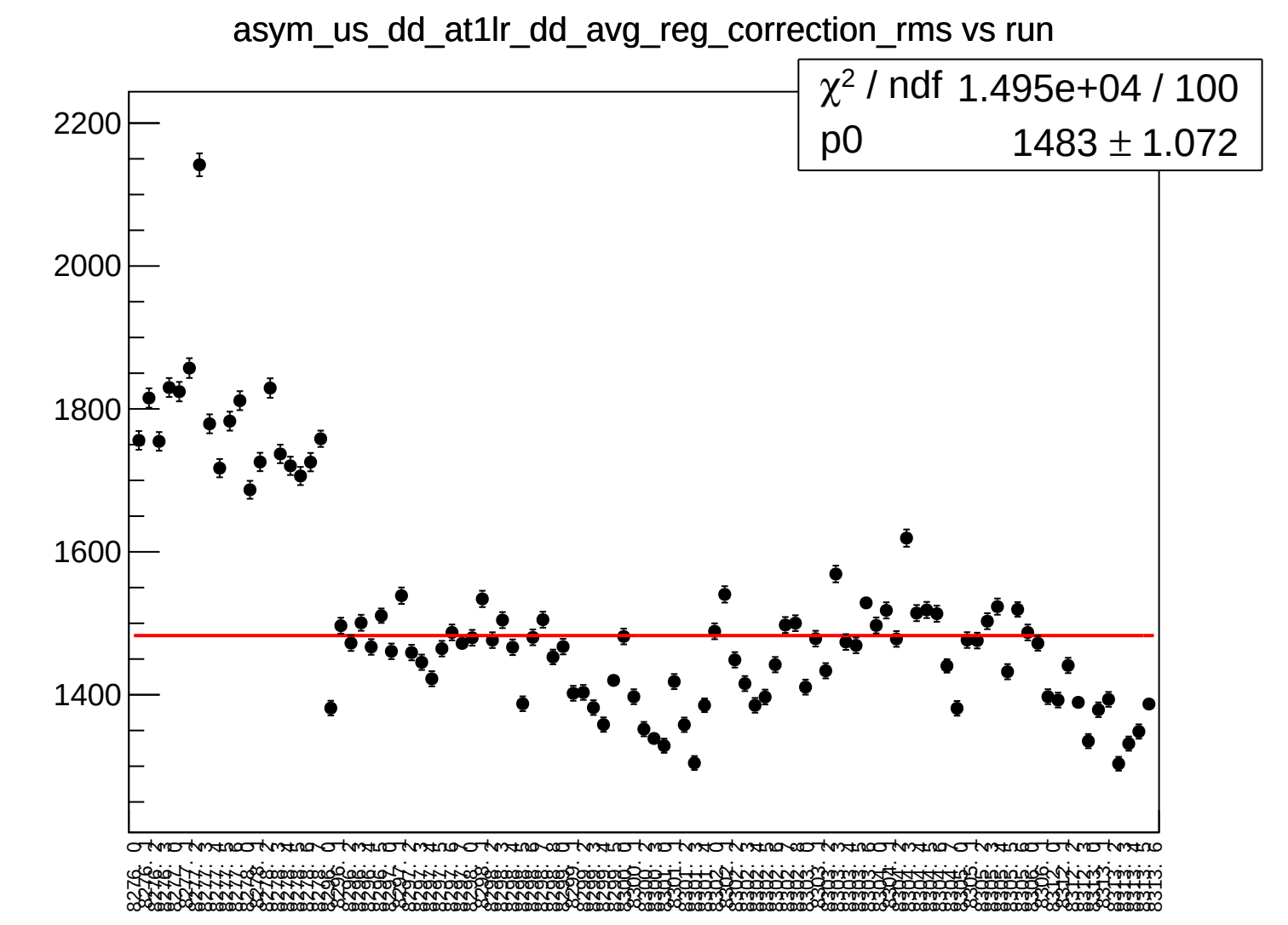

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.068e+06 / 100
p0 1.683e−10 ± 1.816e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

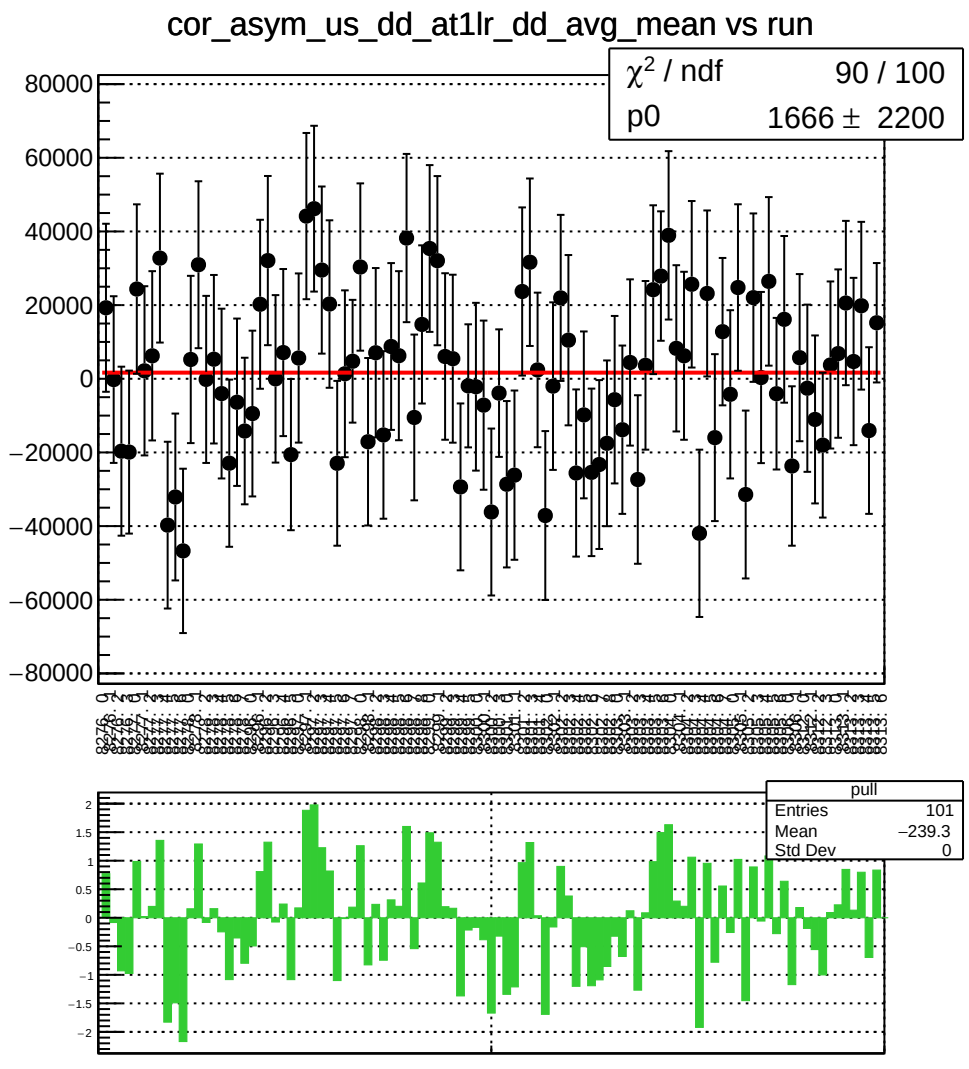

reg_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 90 / 100
p0 1666 ± 2200
pull
Entries 101
Mean −239.6
Std Dev 0

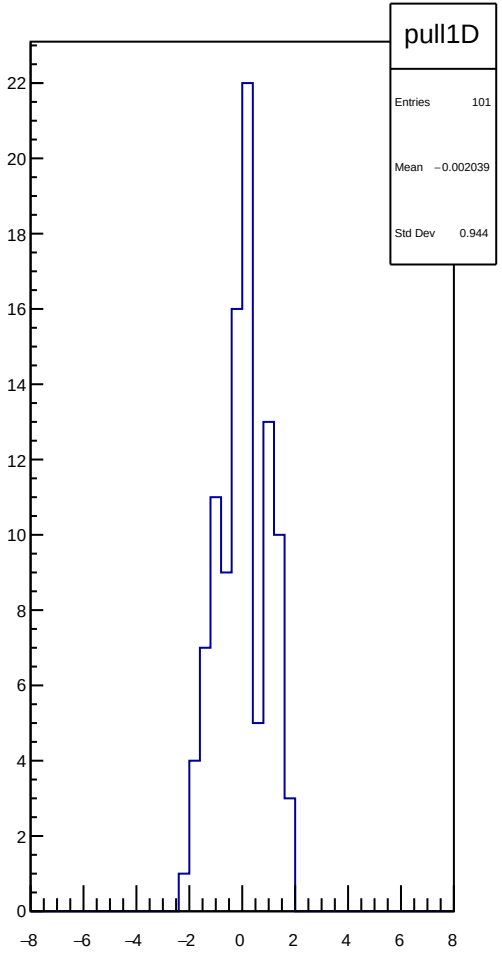

pull1D
Entries 101
Mean −0.002038
Std Dev 0.944

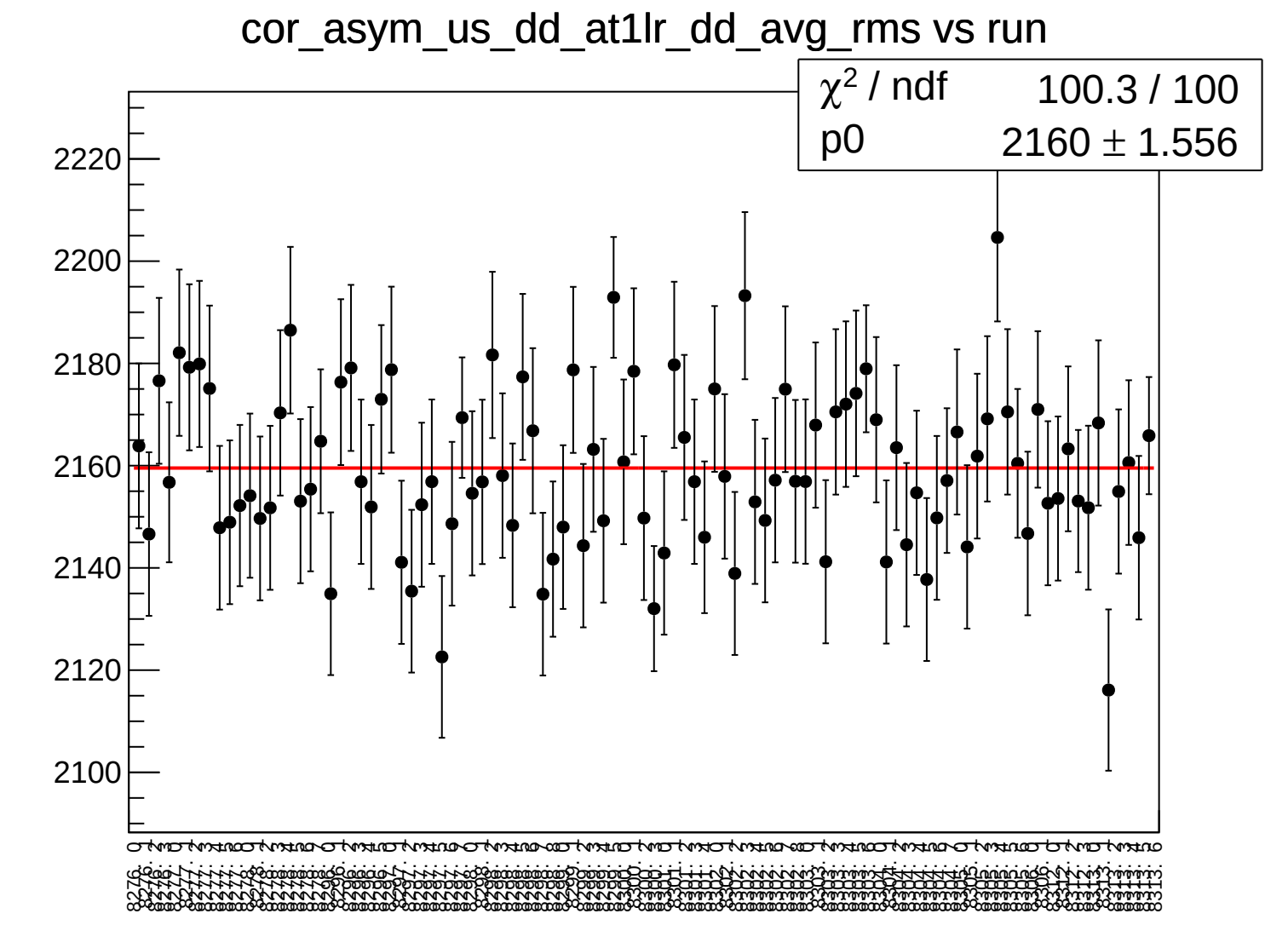

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 100.3 / 100
p0 2160 ± 1.556
2220
2200
2180
2160
2140
2120
2100

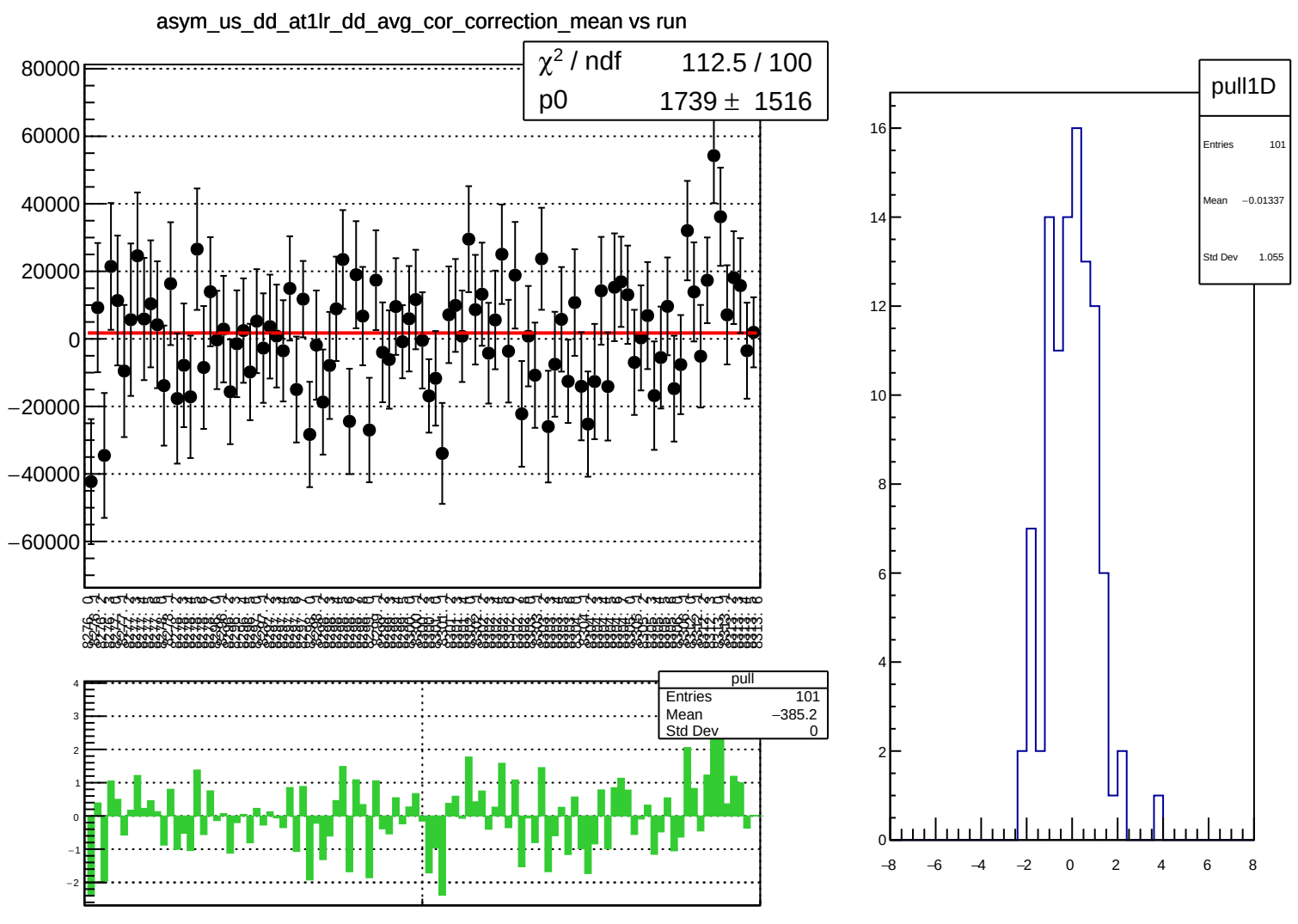

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 112.5 / 100
p0 1739 ± 1516
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −385
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.01337
Std Dev 1.055
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

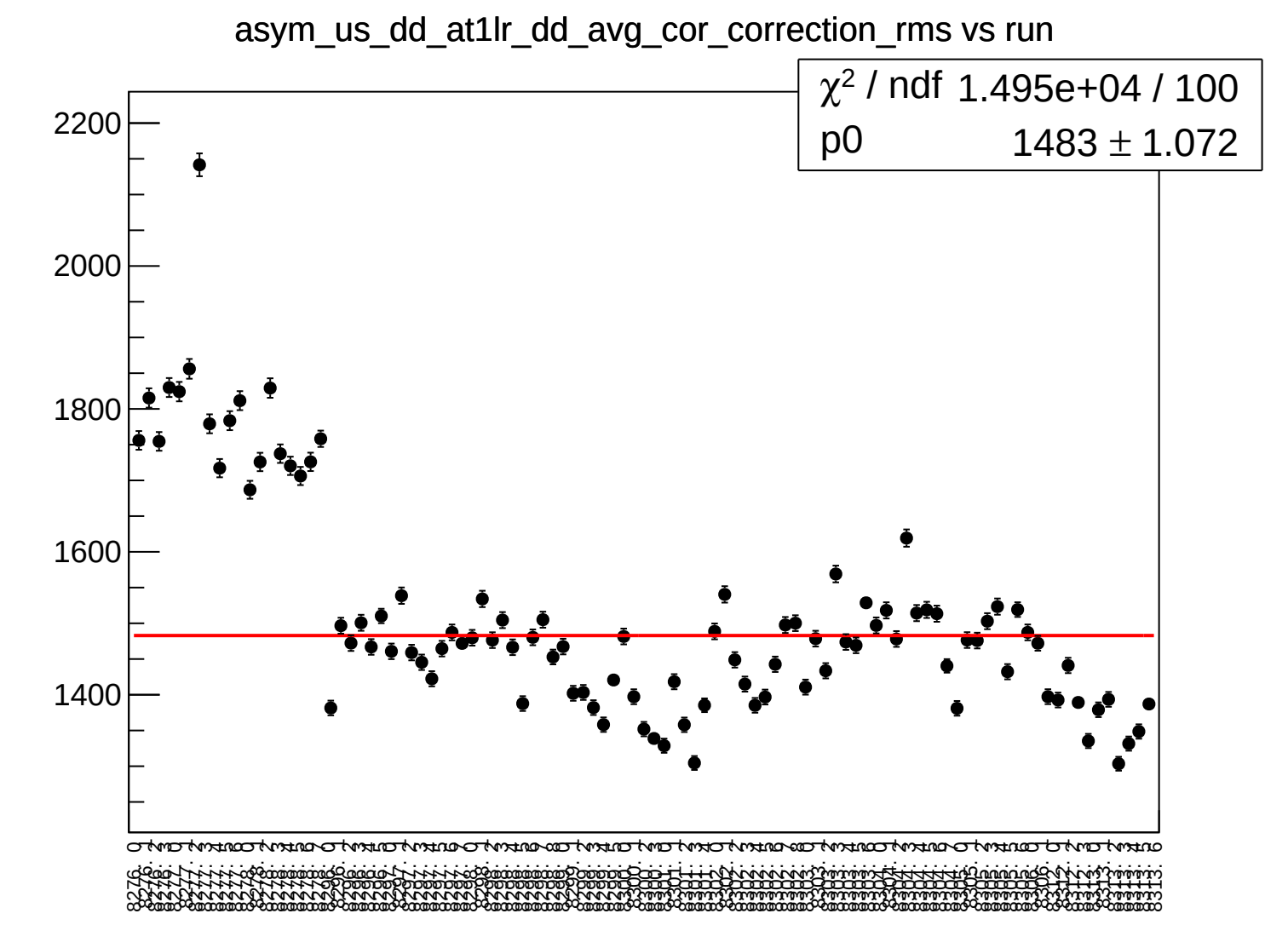

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.495e+04 / 100
p0 1483 ± 1.072
2200
2000
1800
1600
1400

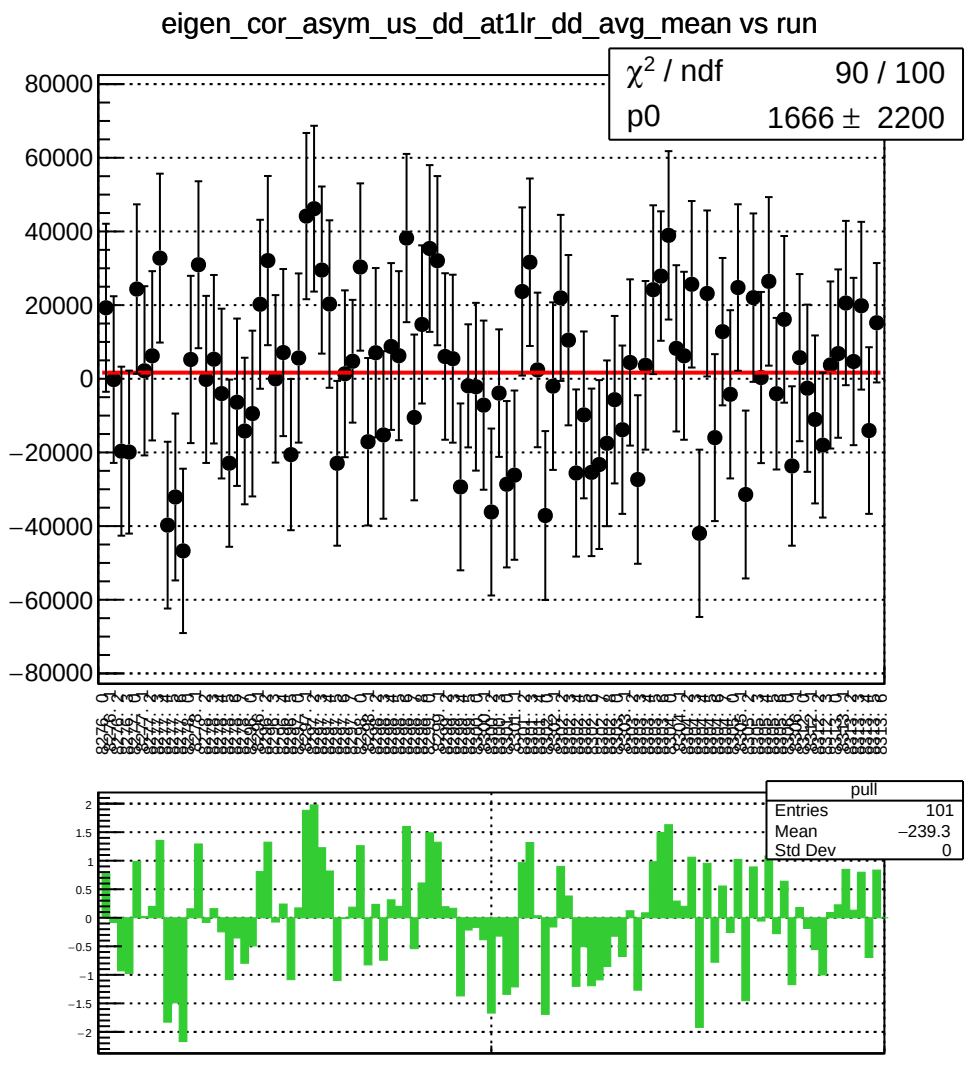

cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 90 / 100
p0 1666 ± 2200
pull
Entries 101
Mean −239.3
Std Dev 0

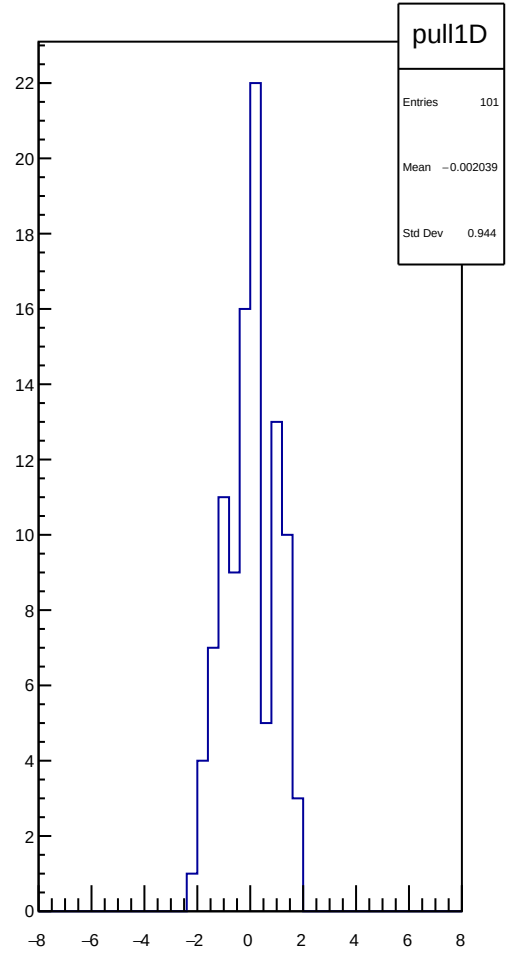

pull1D
Entries 101
Mean −0.002039
Std Dev 0.944

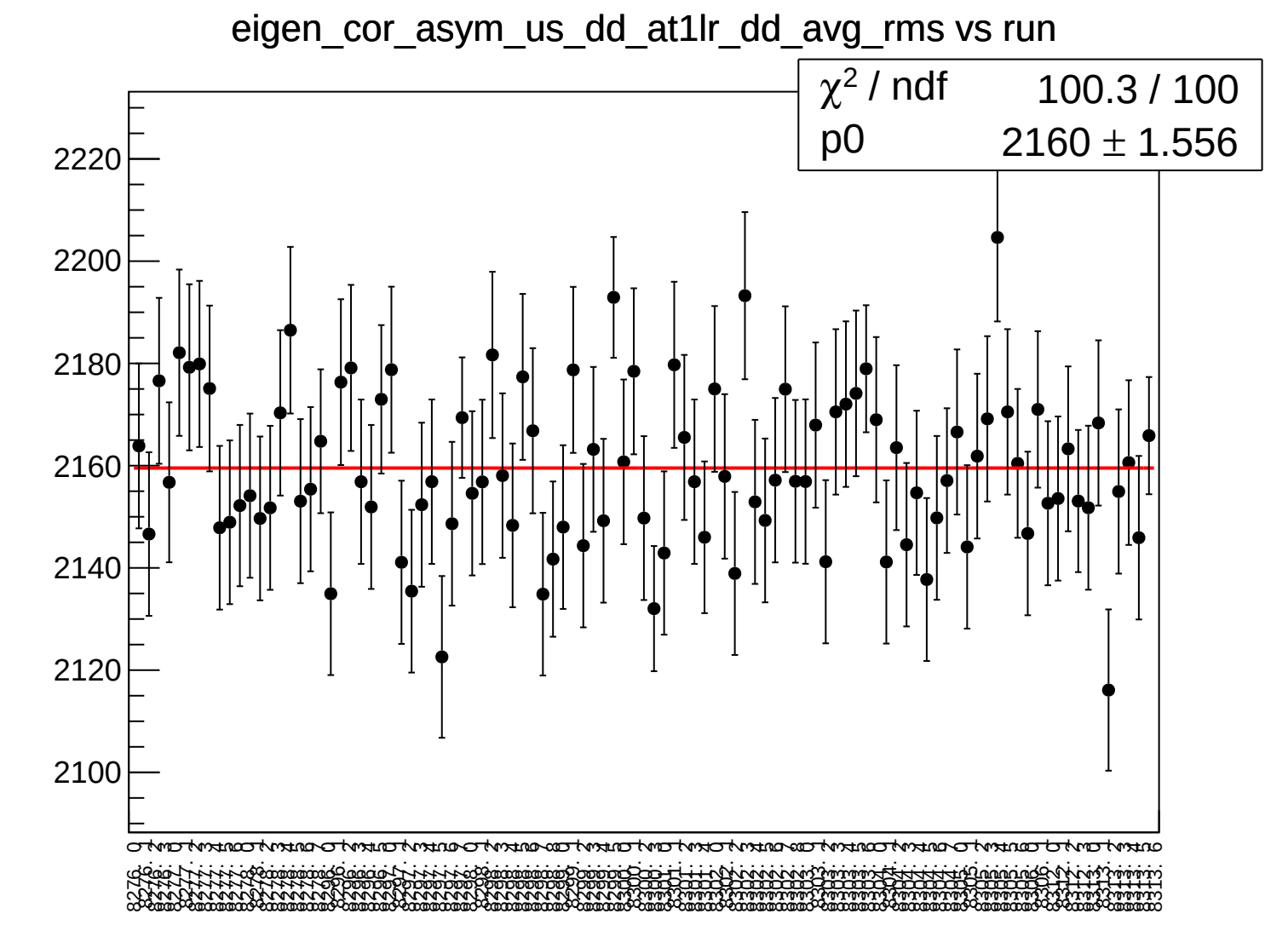

cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 100.3 / 100
p0 2160 ± 1.556
2220
2200
2180
2160
2140
2120
2100


asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 112.5 / 100
p0 1739 ± 1516
pull
Entries 101
Mean −385.2
Std Dev 0
pull1D
Entries 101
Mean −0.01337
Std Dev 1.055

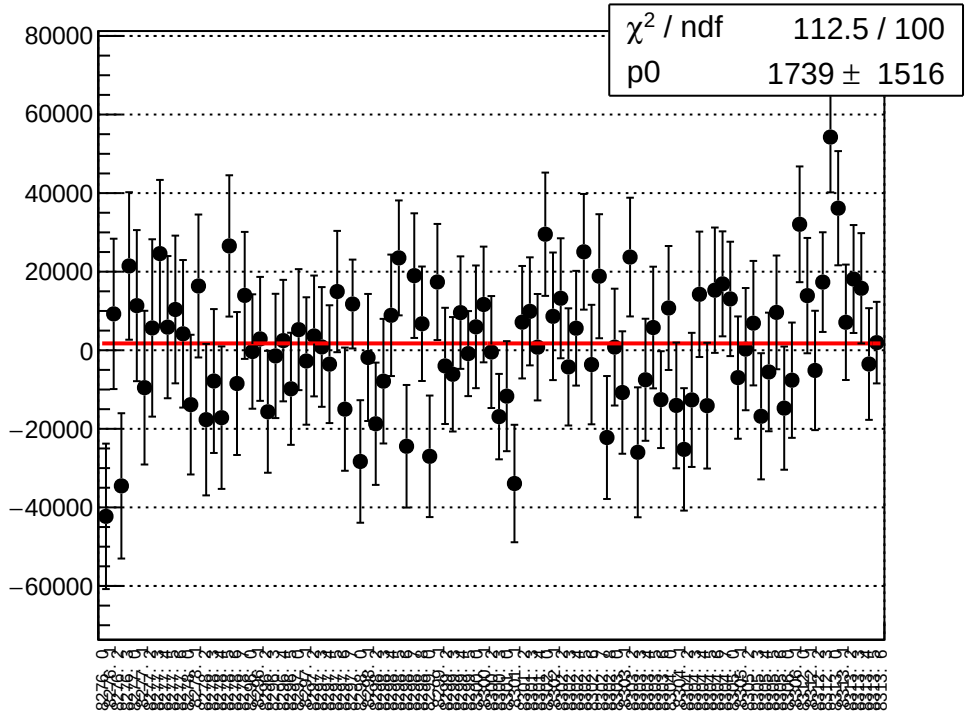

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ² / ndf 1.495e+04 / 100
p0 1483 ± 1.072
2200
2000
1800
1600
1400

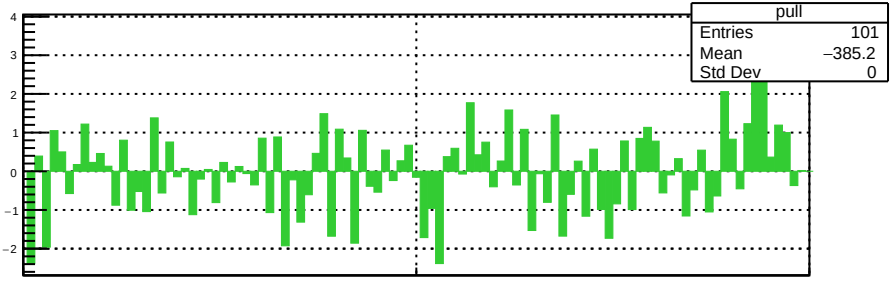

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 90 / 100
p0 1666 ± 2200
pull
Entries 101
Mean −239.3
Std Dev 0

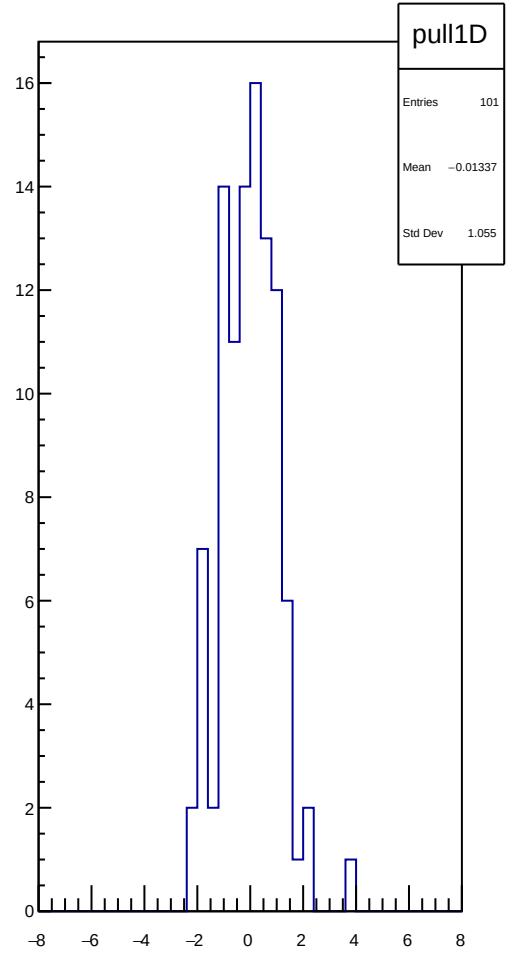

pull1D
Entries 101
Mean −0.002039
Std Dev 0.944

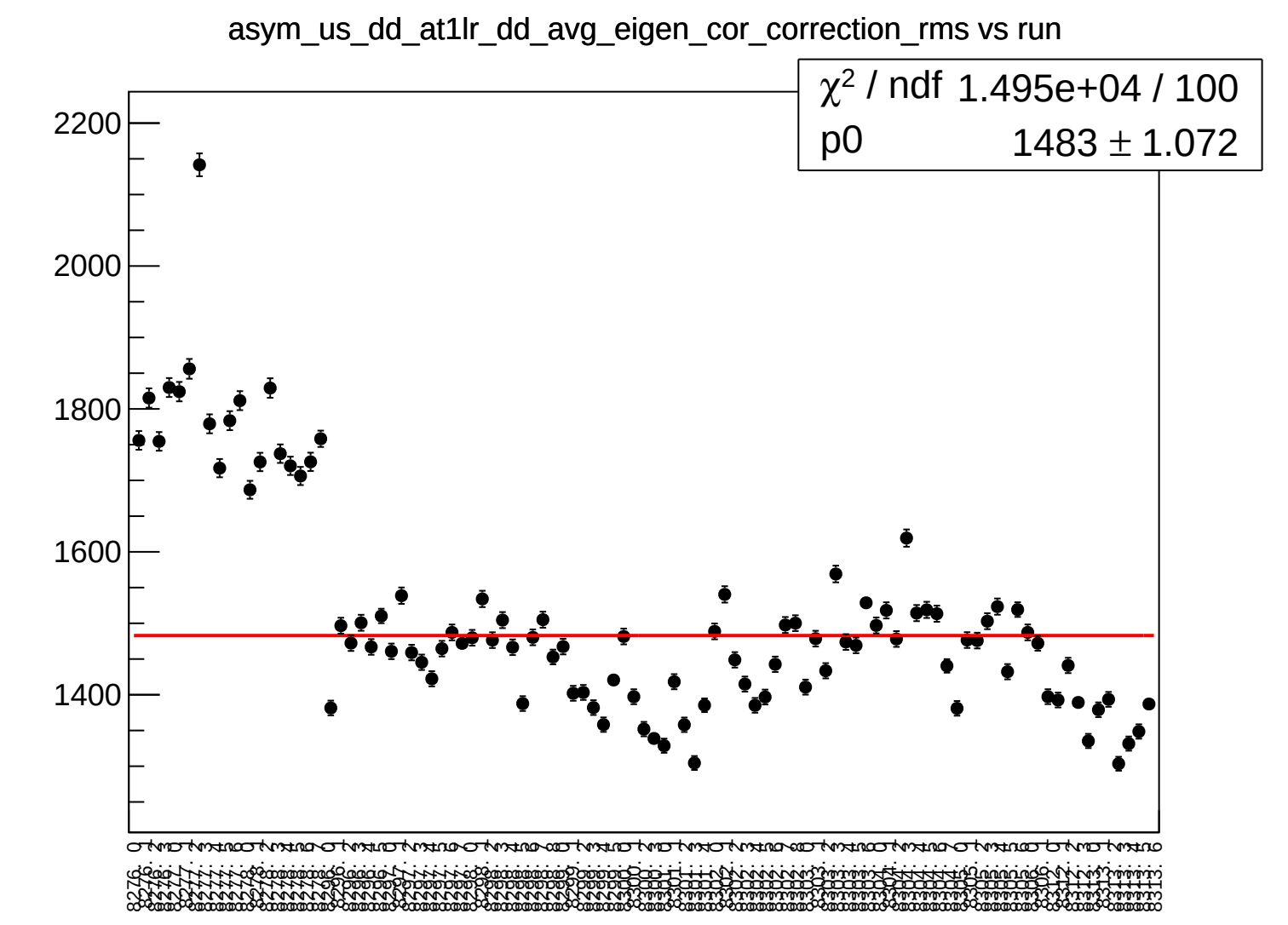

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 100.3 / 100
p0 2160 ± 1.556
2220
2200
2180
2160
2140
2120
2100

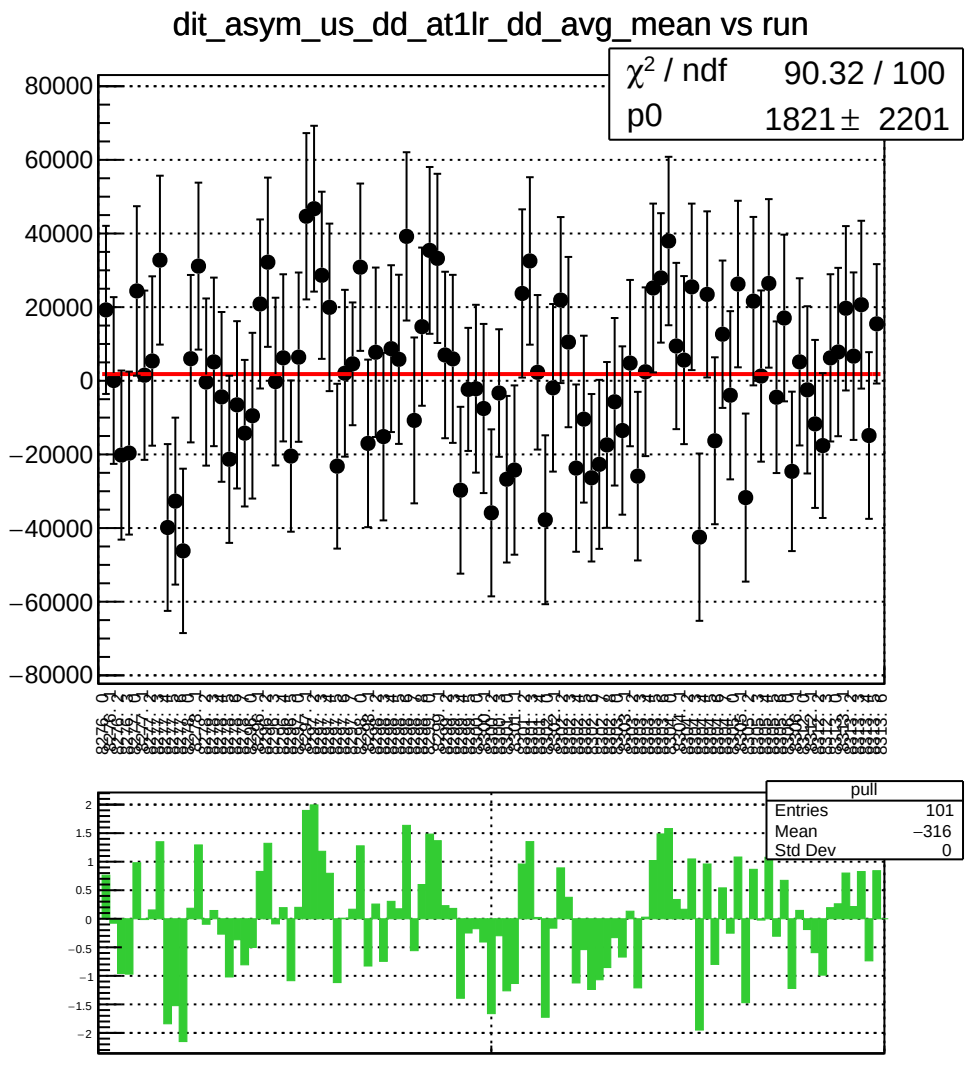
asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run

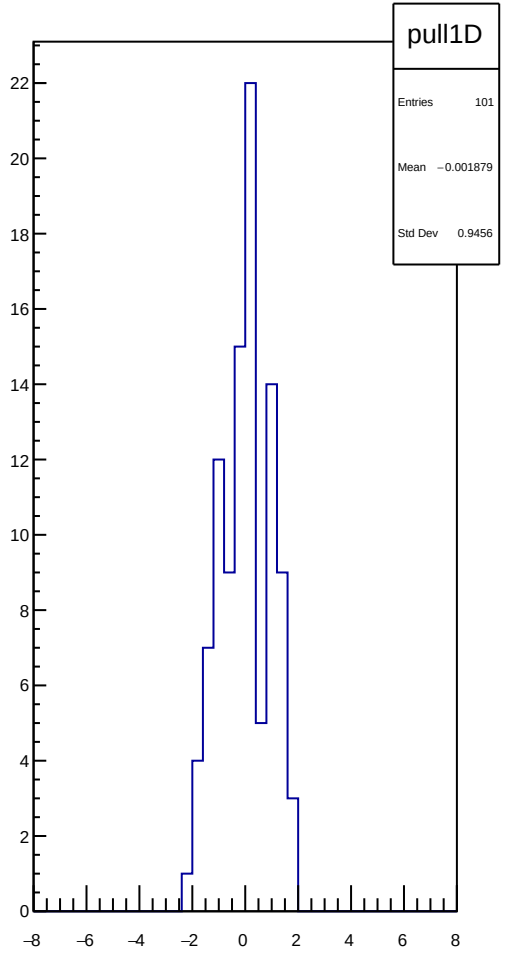


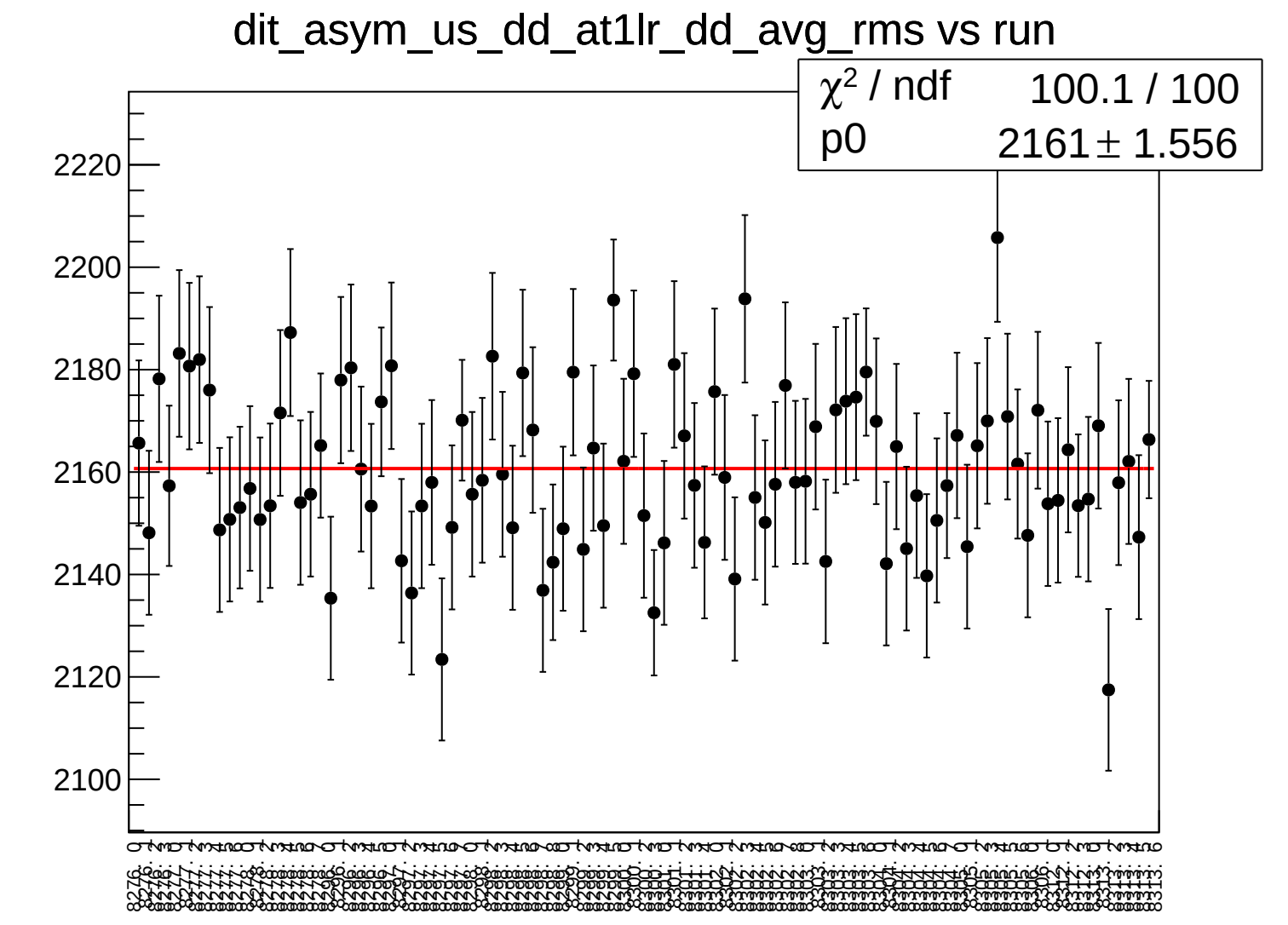


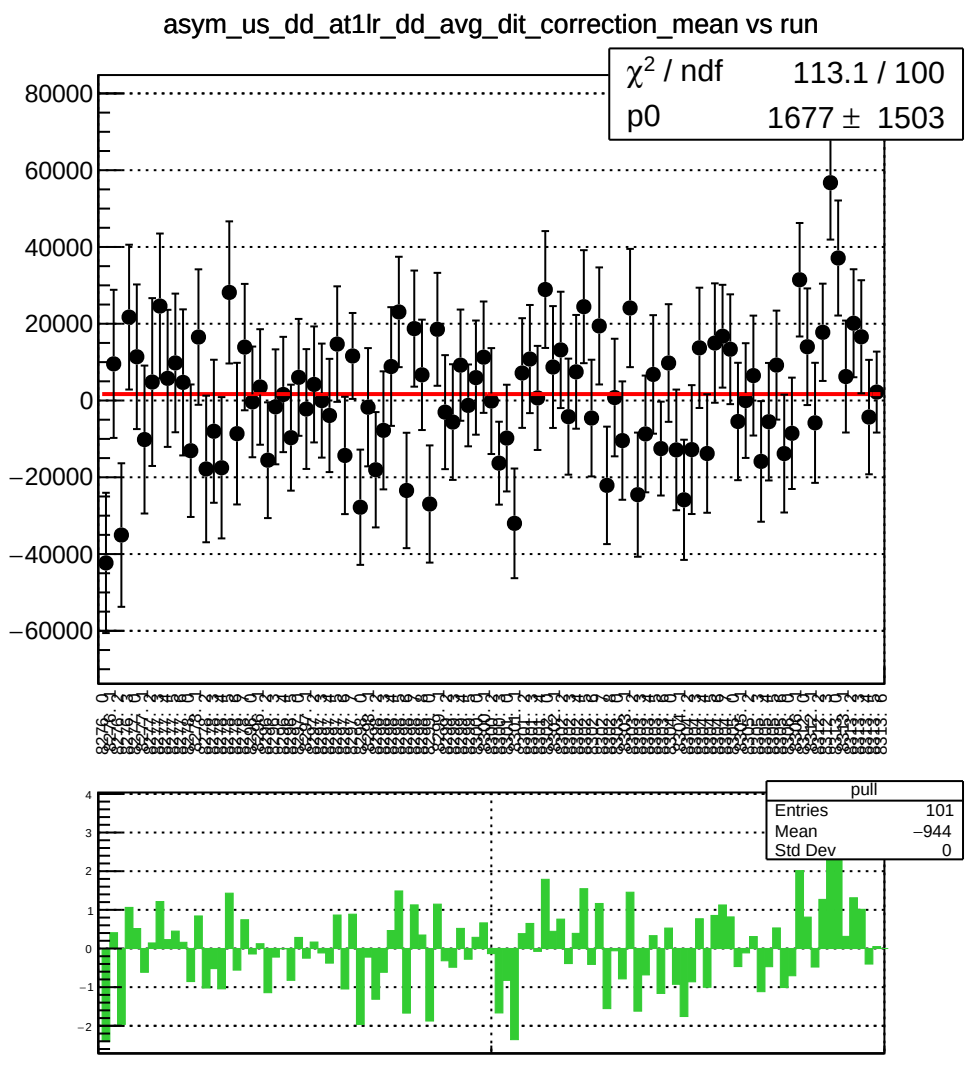


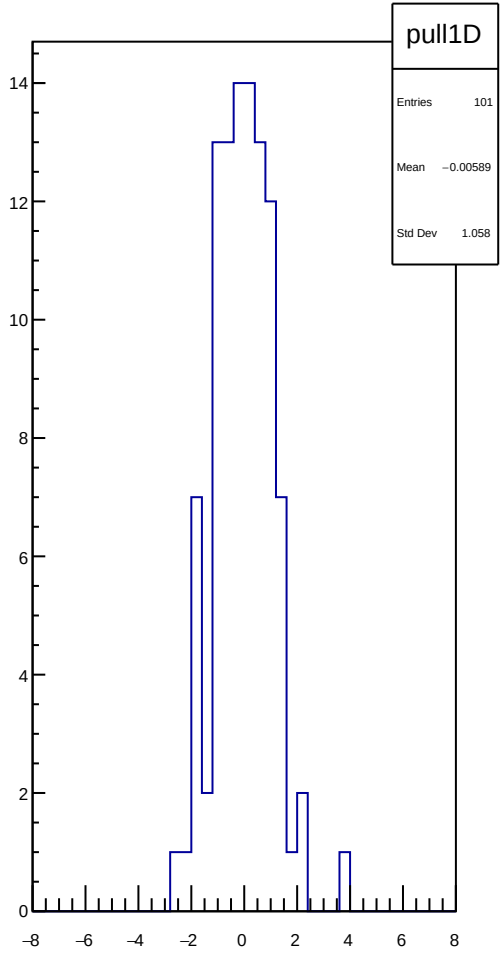

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.495e+04 / 100
p0 1483 ± 1.072
2200
2000
1800
1600
1400

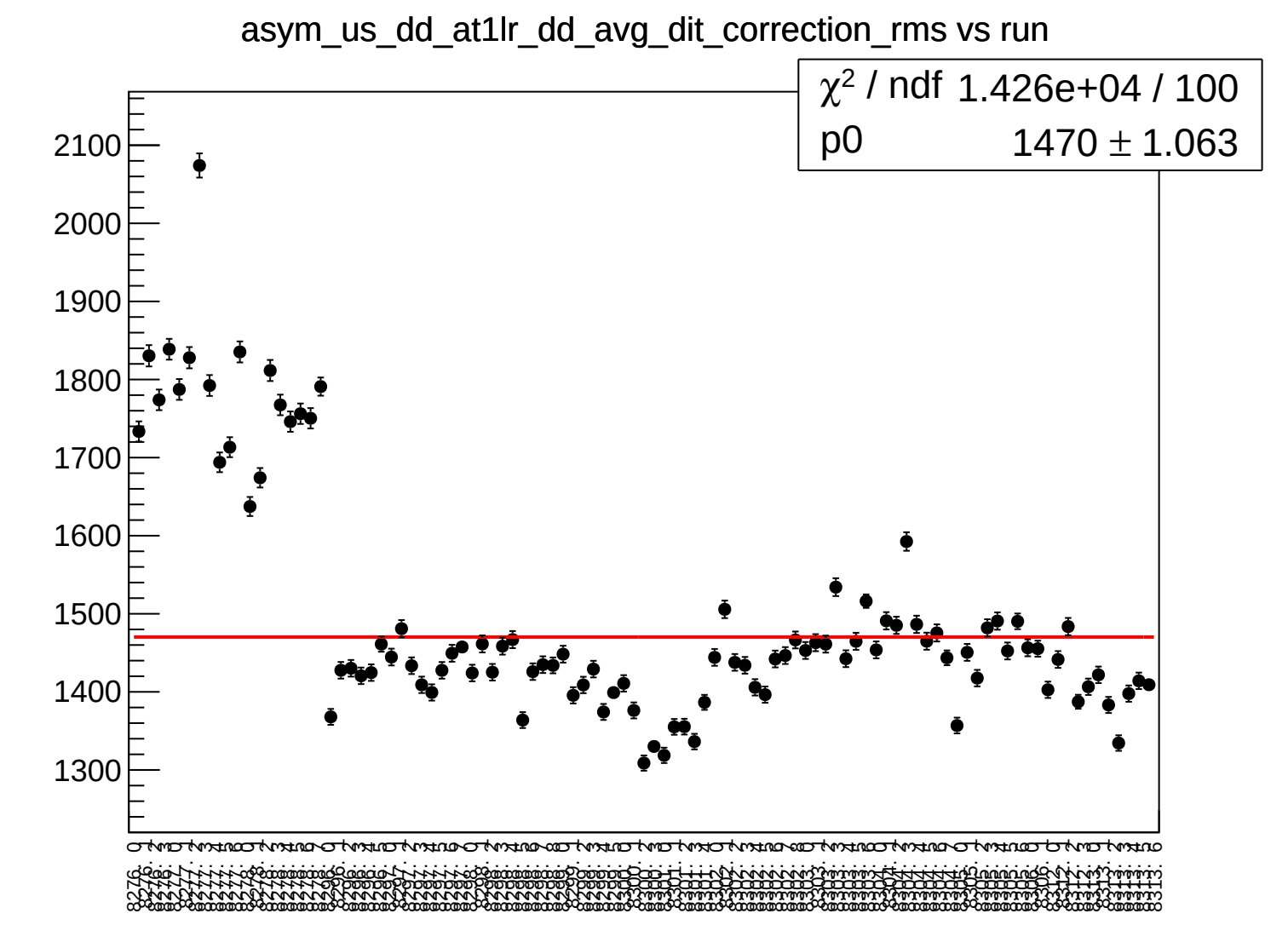

dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 90.32 / 100
p0 1821 ± 2201
pull
Entries 101
Mean −316
Std Dev 0

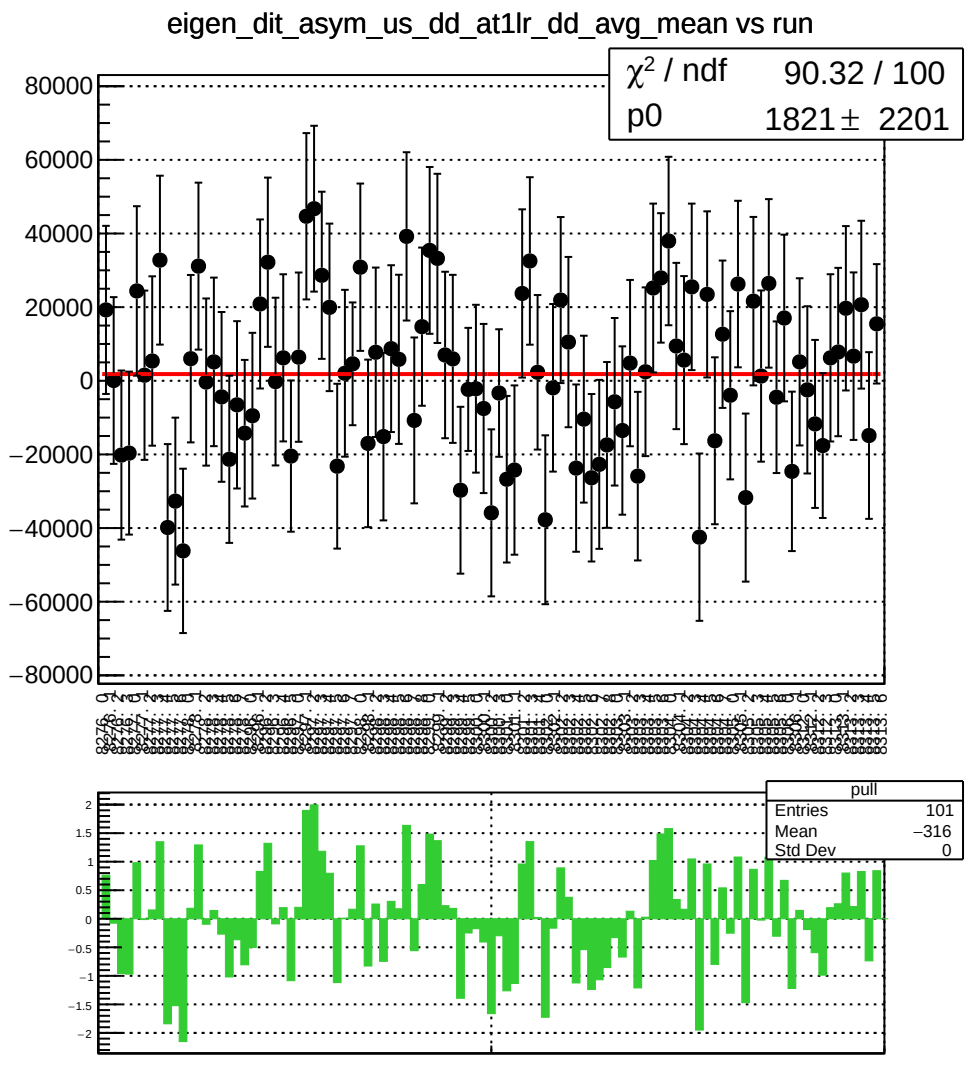

pull1D
Entries 101
Mean −0.001879
Std Dev 0.9456

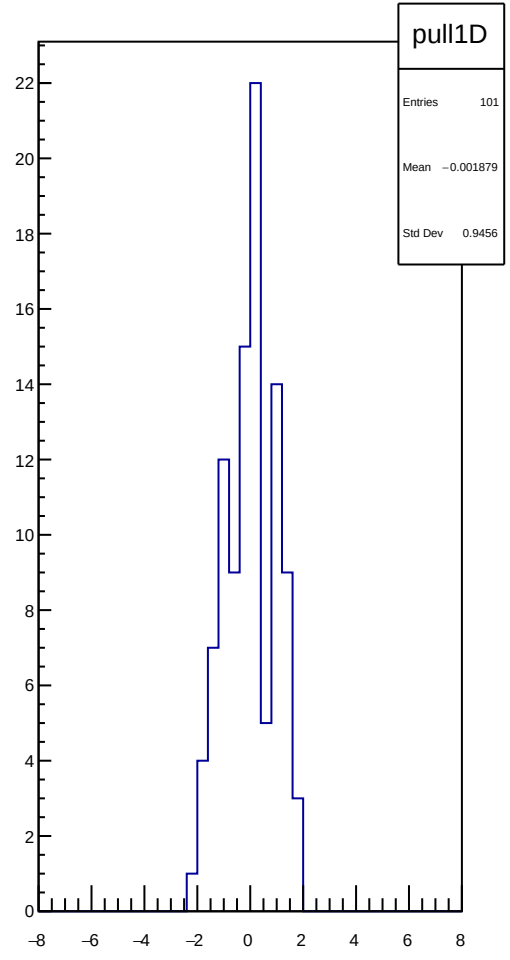

dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 100.1 / 100
p0 2161 ± 1.556
2220
2200
2180
2160
2140
2120
2100

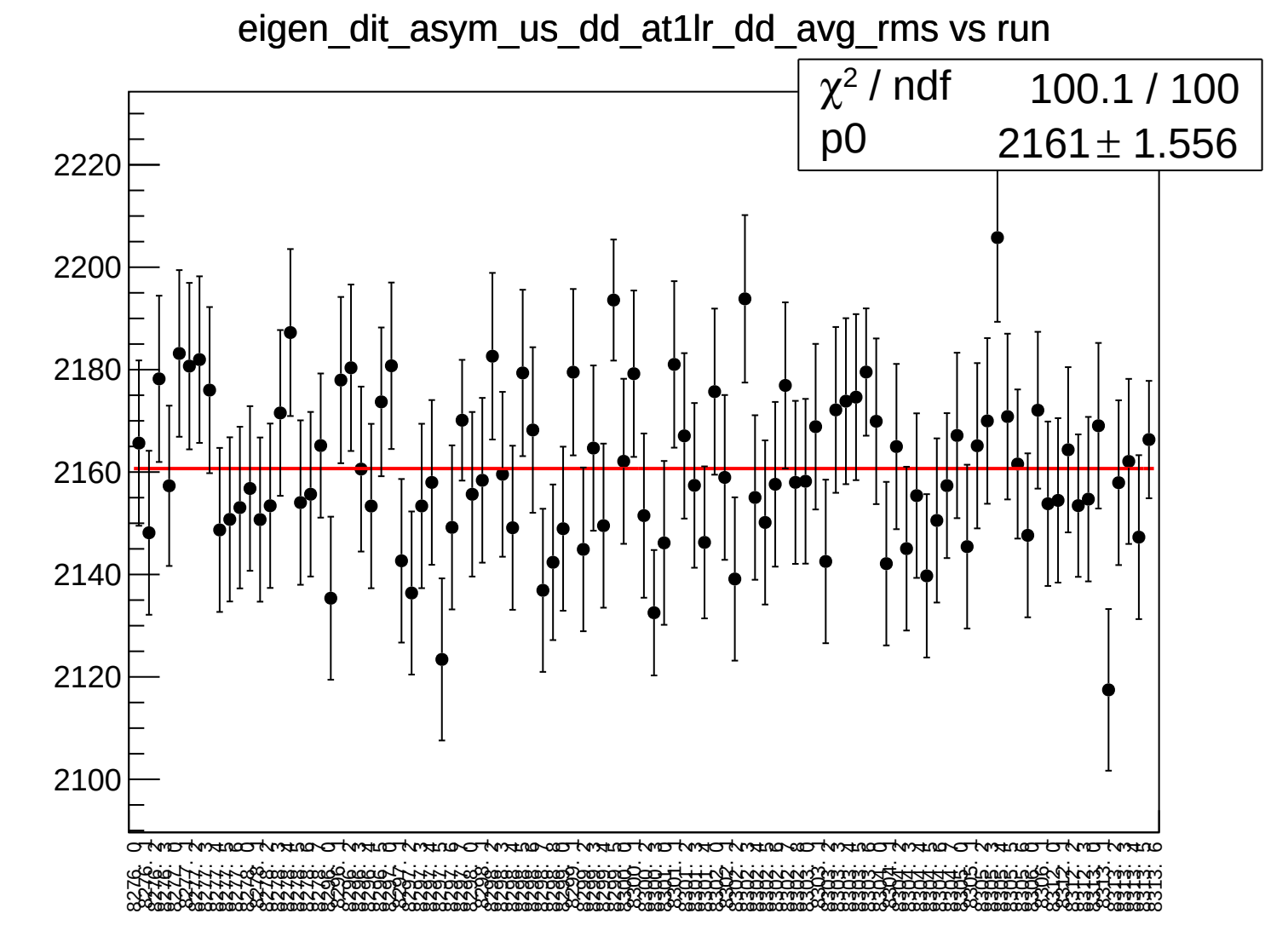

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
χ² / ndf 113.1 / 100
p0 1677 ± 1503
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −944
Std Dev 0
4
3
2
1
0
−1
−2

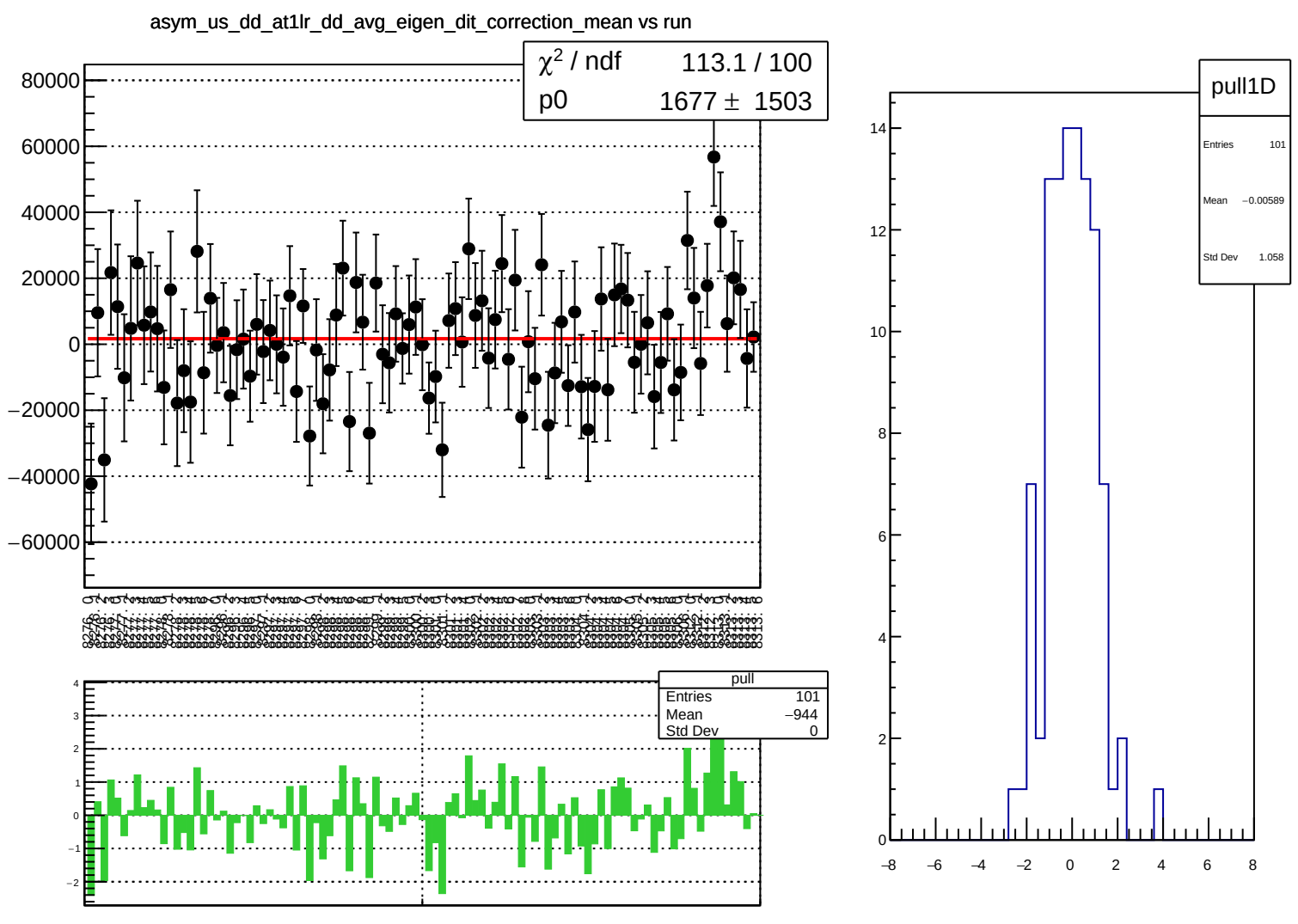

pull1D
Entries 101
Mean −0.00589
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

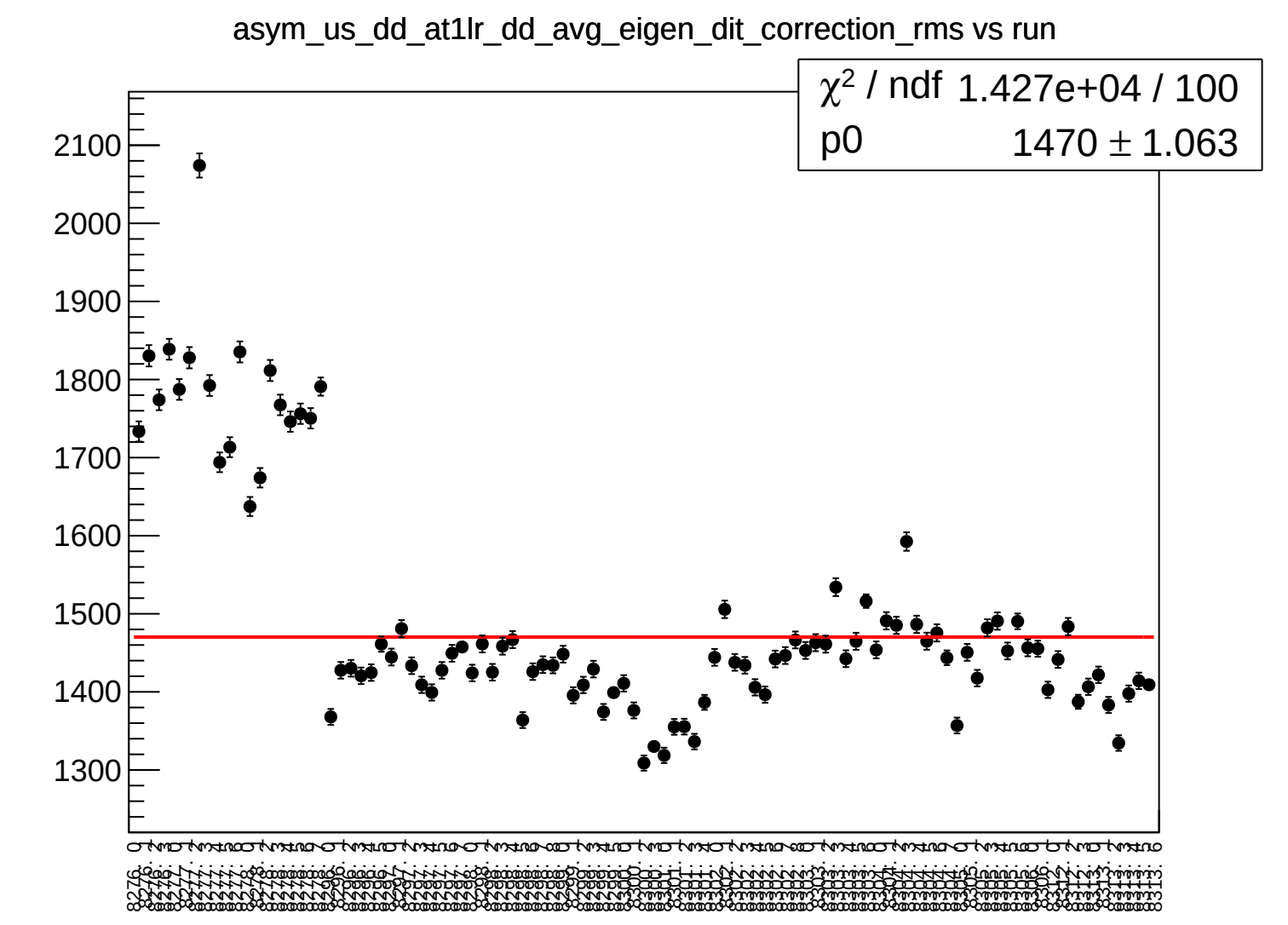

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ² / ndf 1.426e+04 / 100
p0 1470 ± 1.063
2100
2000
1900
1800
1700
1600
1500
1400
1300

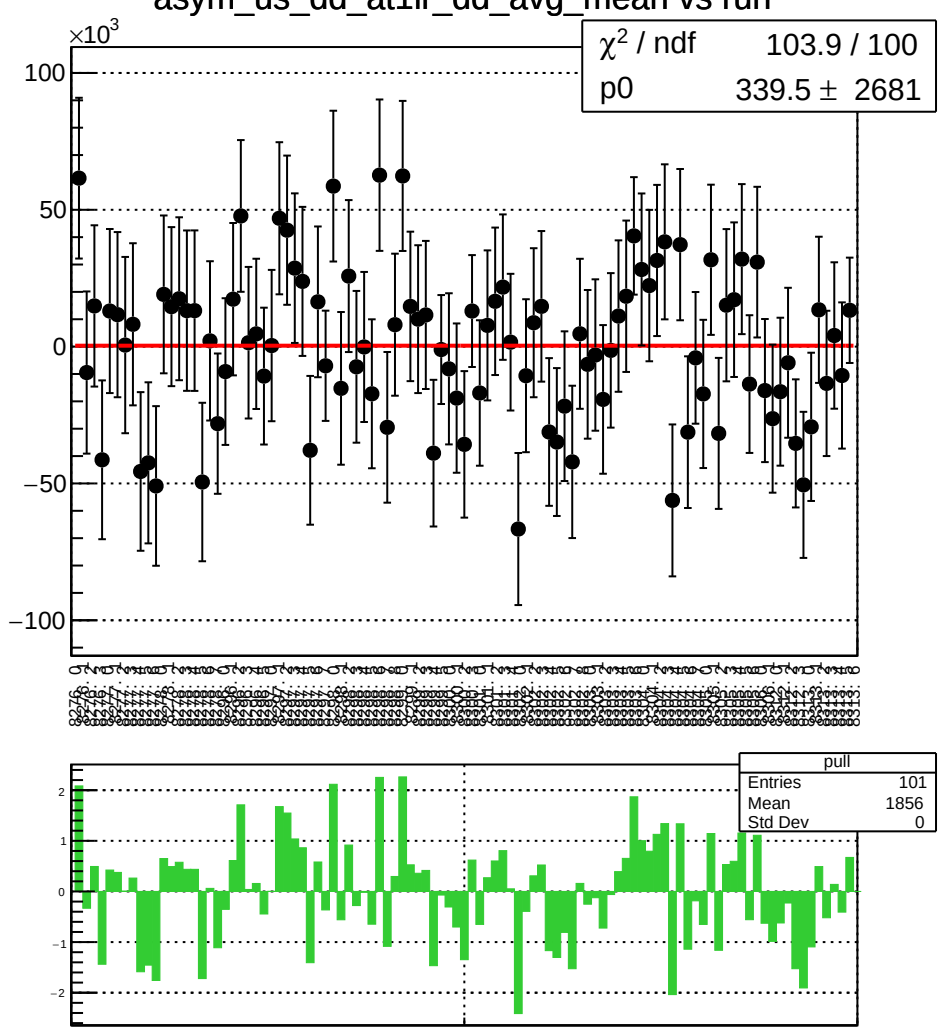

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 90.32 / 100
p0 1821 ± 2201
pull
Entries 101
Mean −316
Std Dev 0

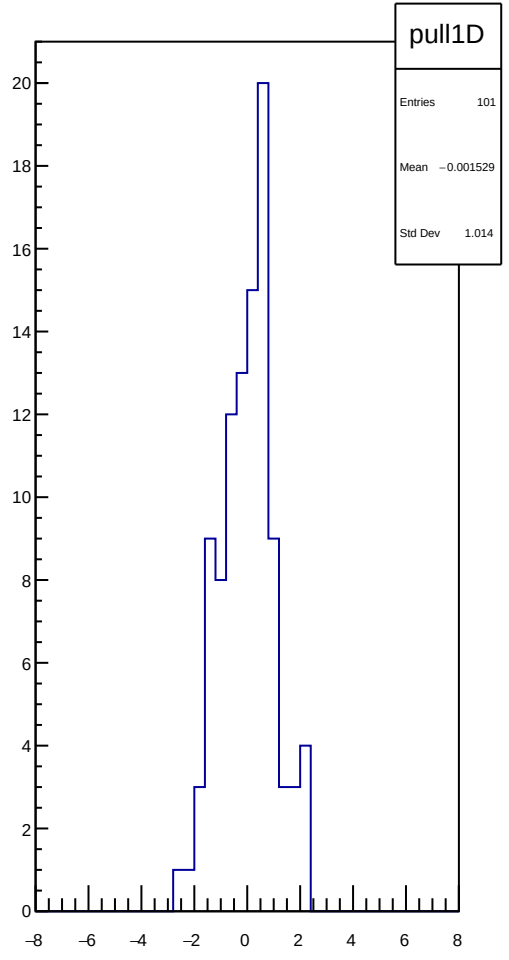

pull1D
Entries 101
Mean −0.001879
Std Dev 0.9456

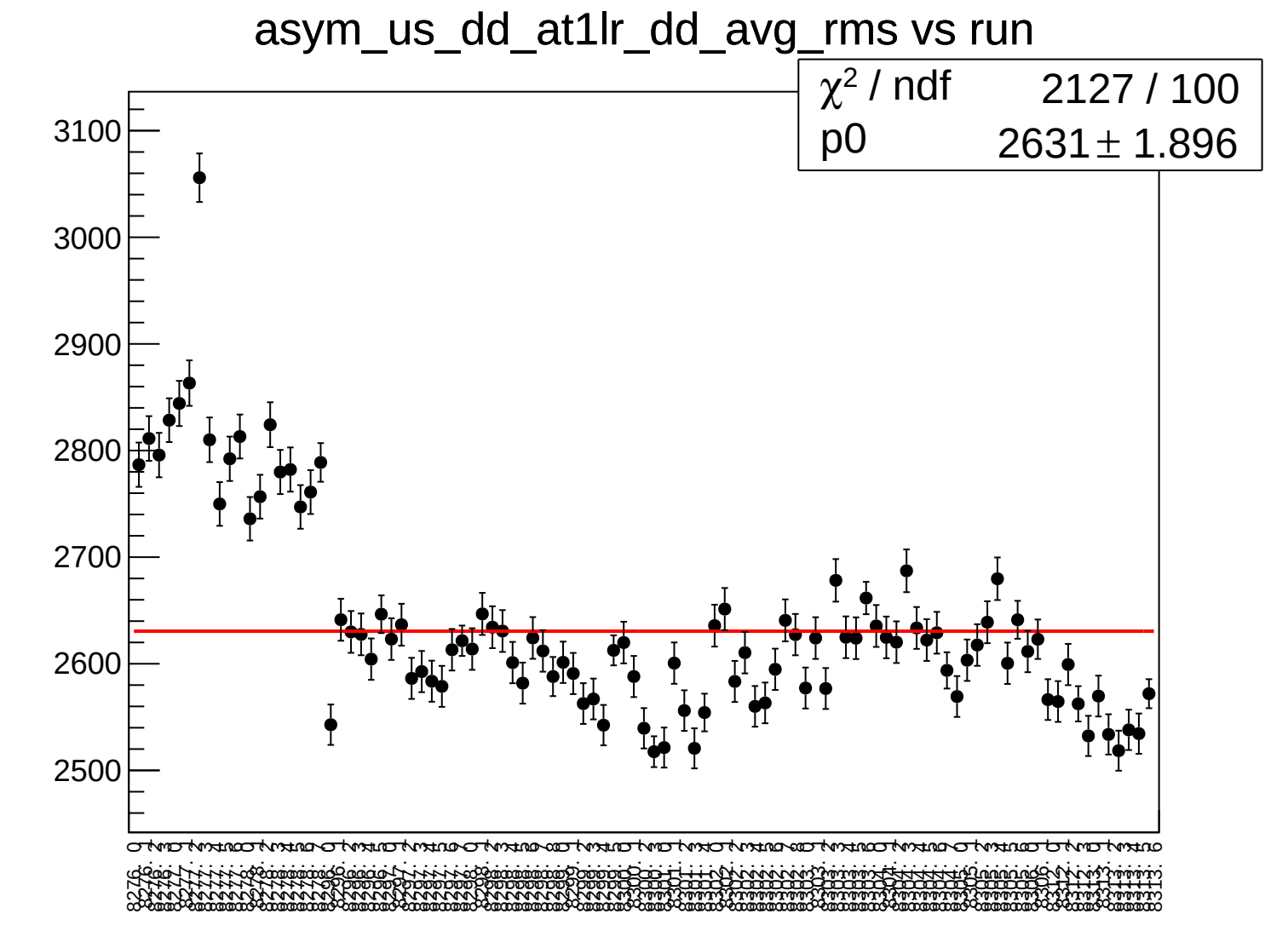

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ^2 / ndf 100.1 / 100
p0 2161 ± 1.556
2220
2200
2180
2160
2140
2120
2100

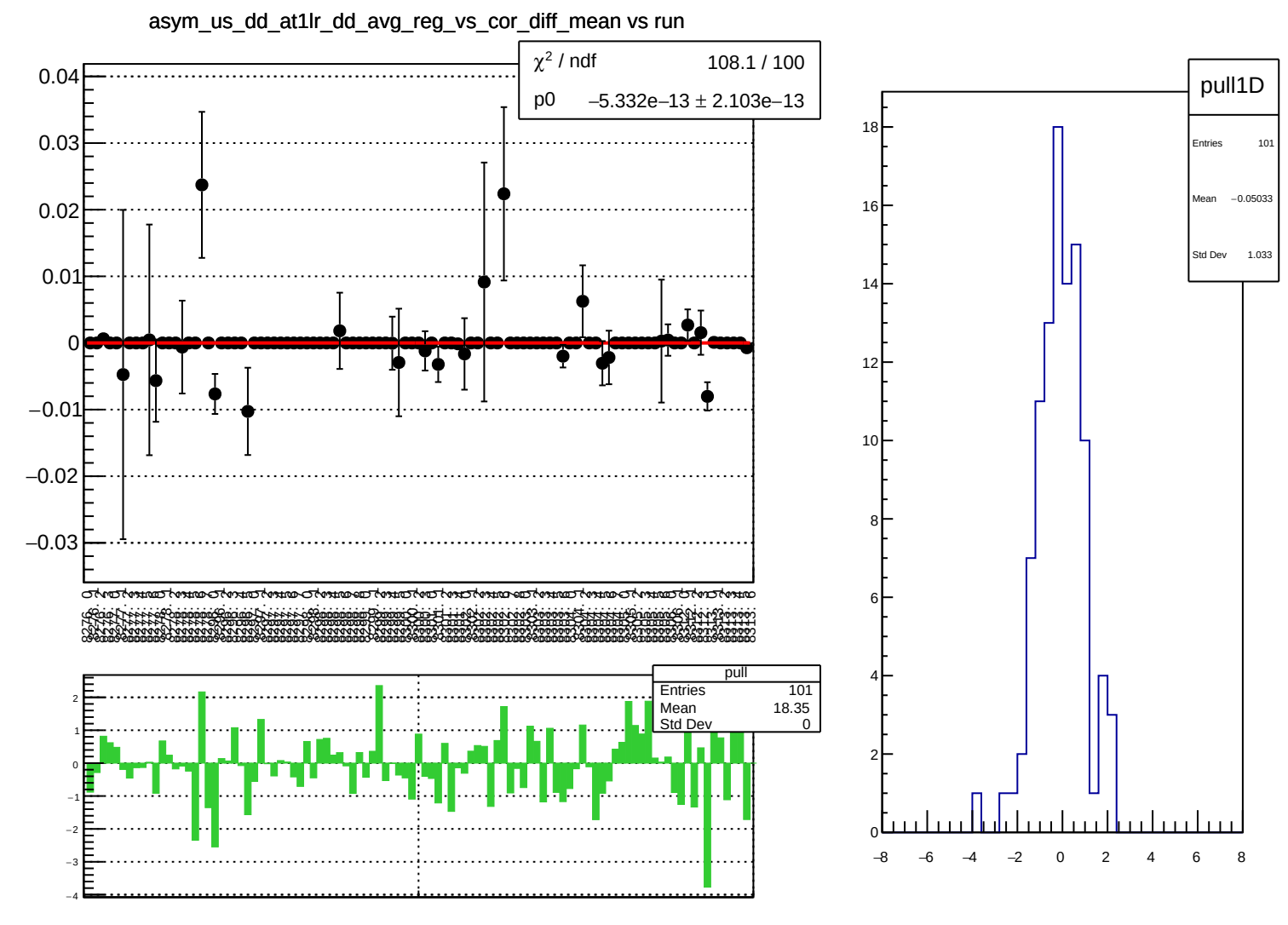

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 113.1 / 100
p0 1677 ± 1503
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −944
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.00589
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

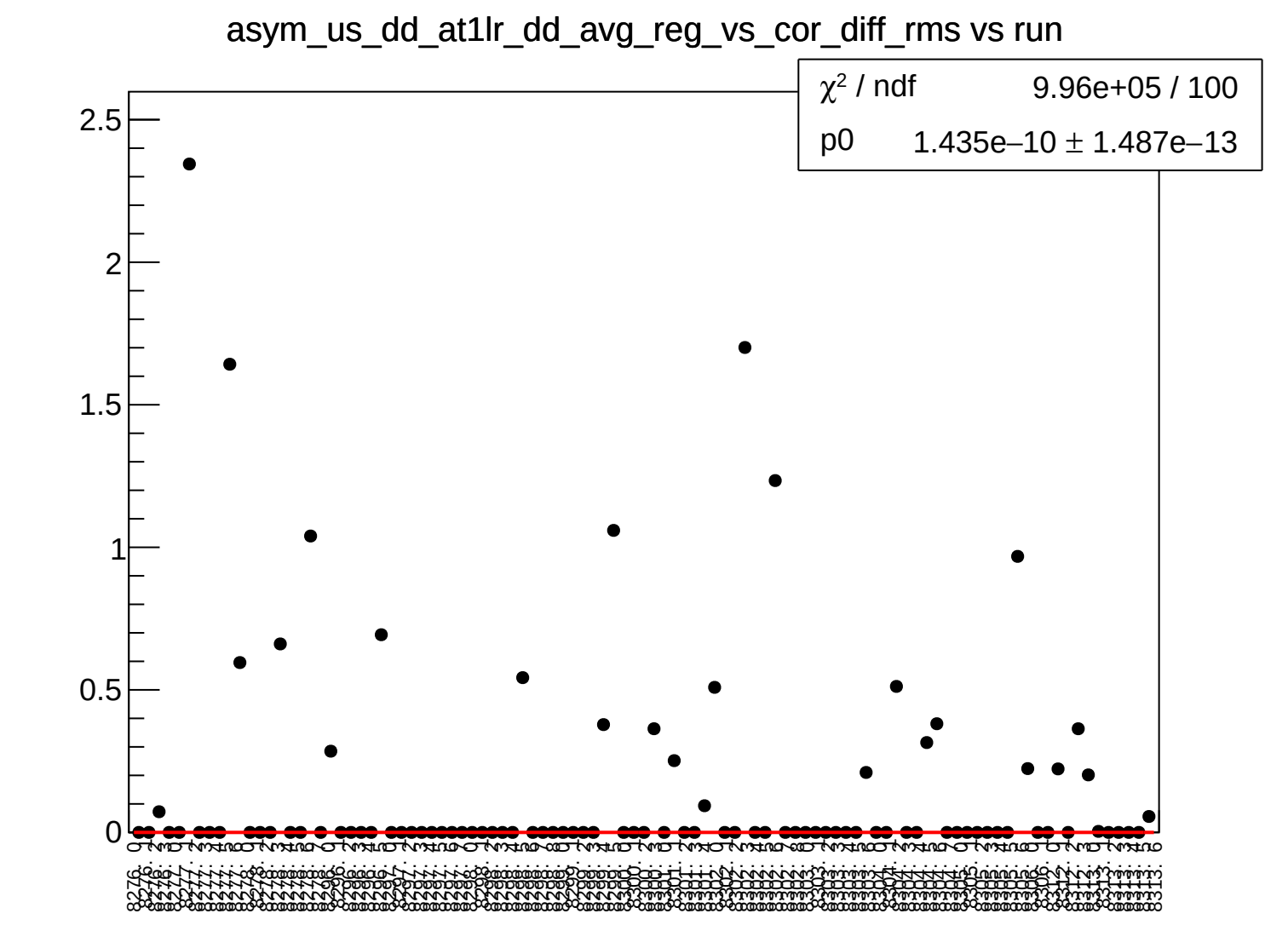

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.427e+04 / 100
p0 1470 ± 1.063
2100
2000
1900
1800
1700
1600
1500
1400
1300

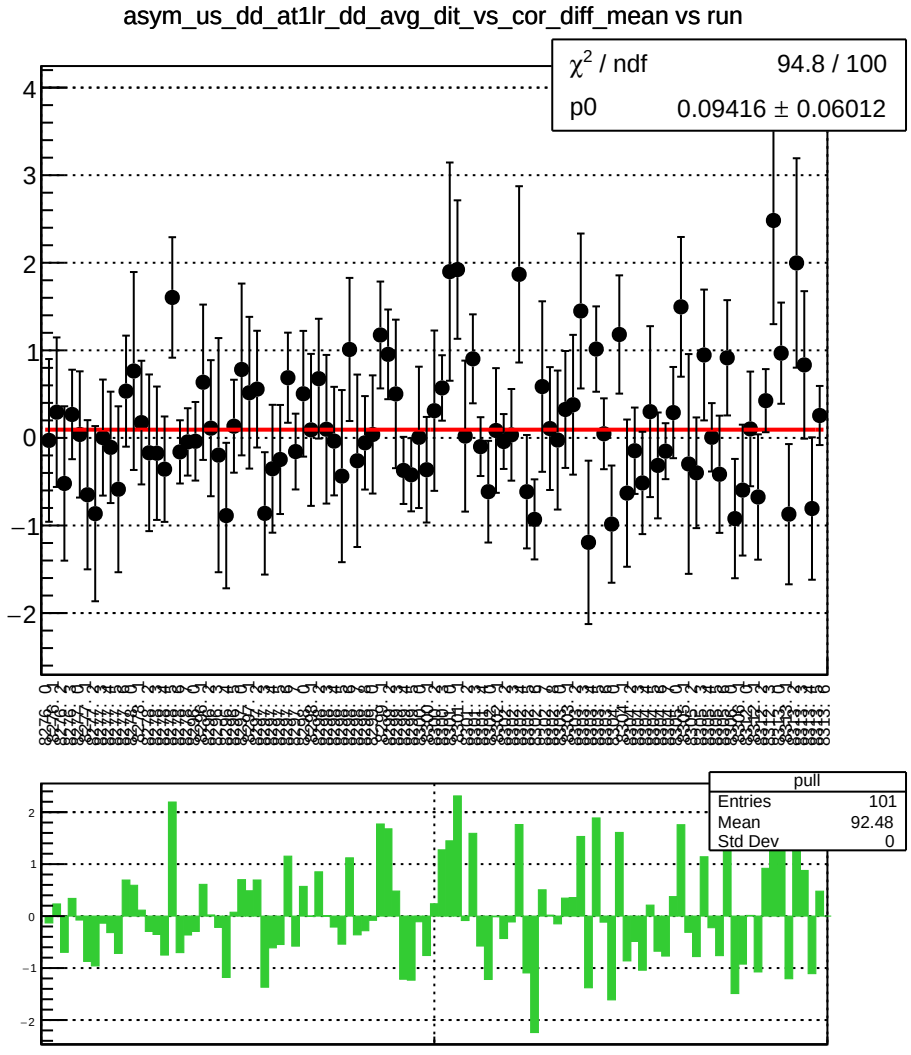

asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 103.9 / 100
p0 339.5 ± 2681
100
50
0
−50
−100
pull
Entries 101
Mean 1856
Std Dev 0
2
1
0
−1
−2

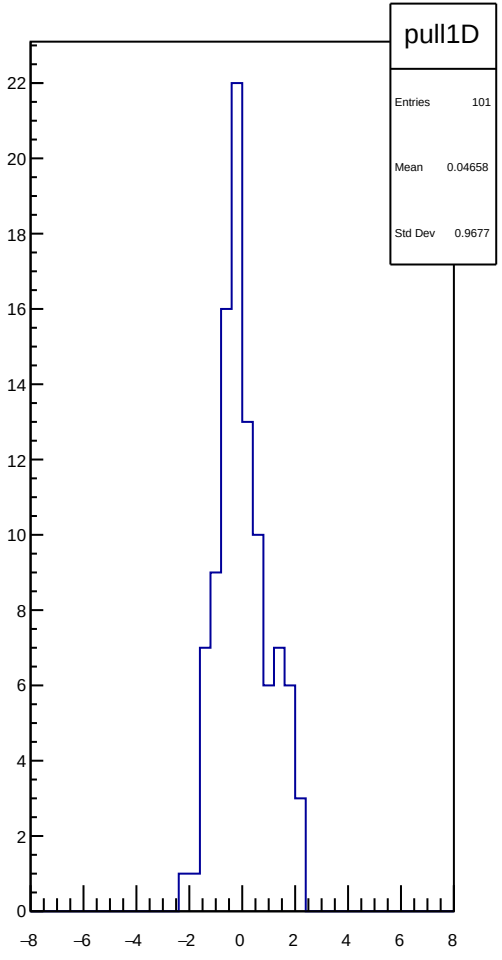

pull1D
Entries 101
Mean −0.001529
Std Dev 1.014
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

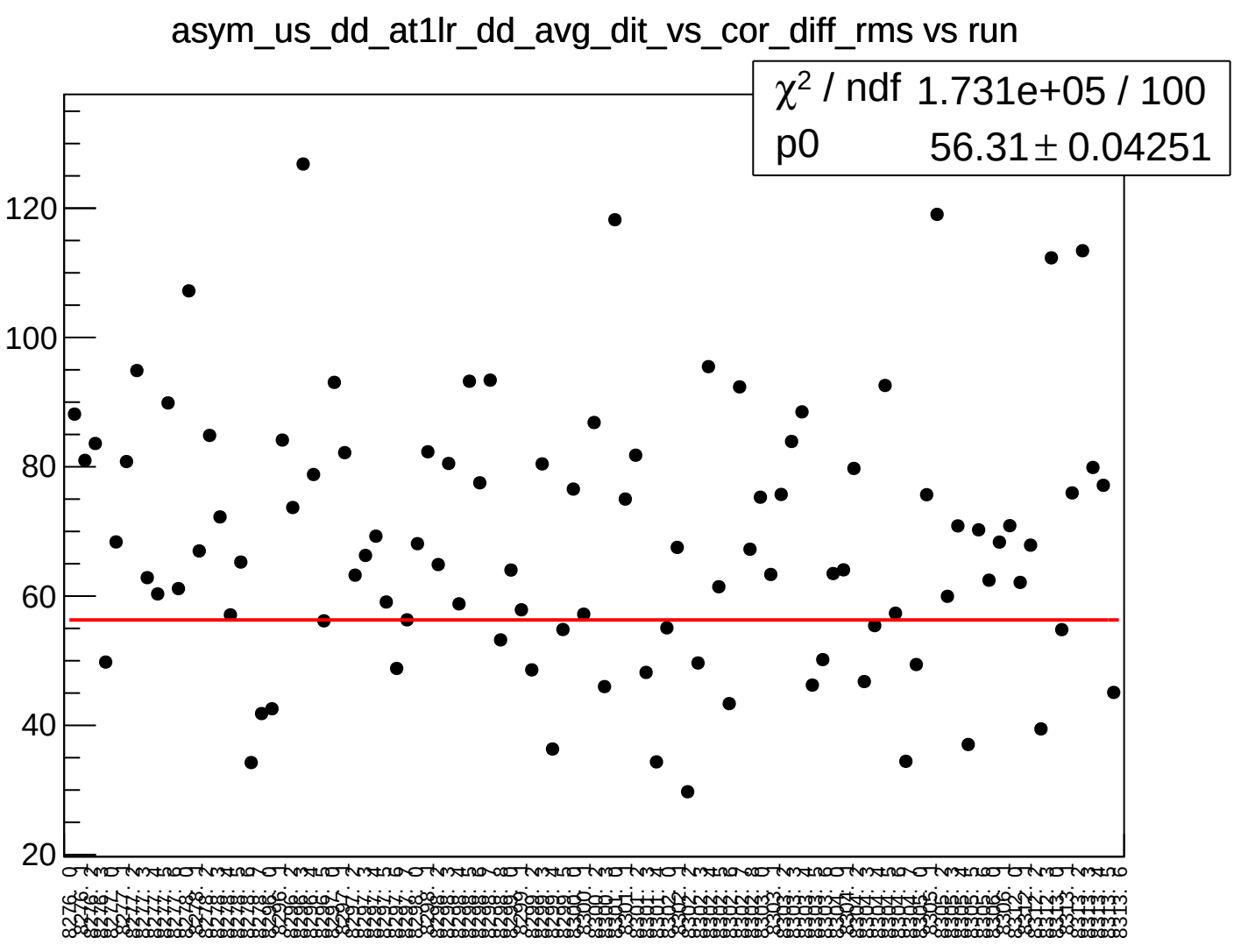

asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 2127 / 100
p0 2631 ± 1.896
3100
3000
2900
2800
2700
2600
2500

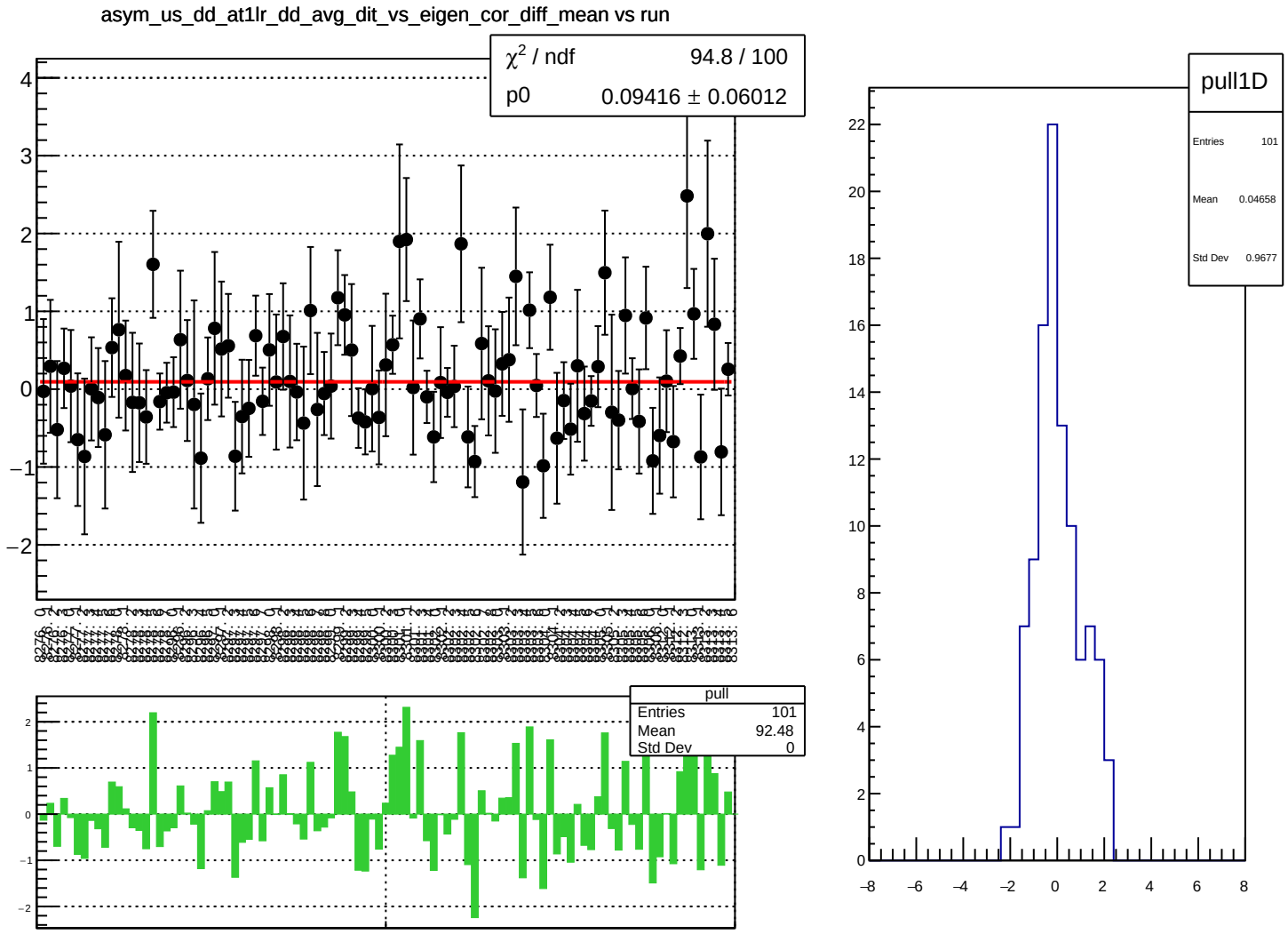

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 108.1 / 100
p0 −5.332e−13 ± 2.103e−13
pull
Entries 101
Mean 18.35
Std Dev 0
pull1D
Entries 101
Mean −0.05033
Std Dev 1.033

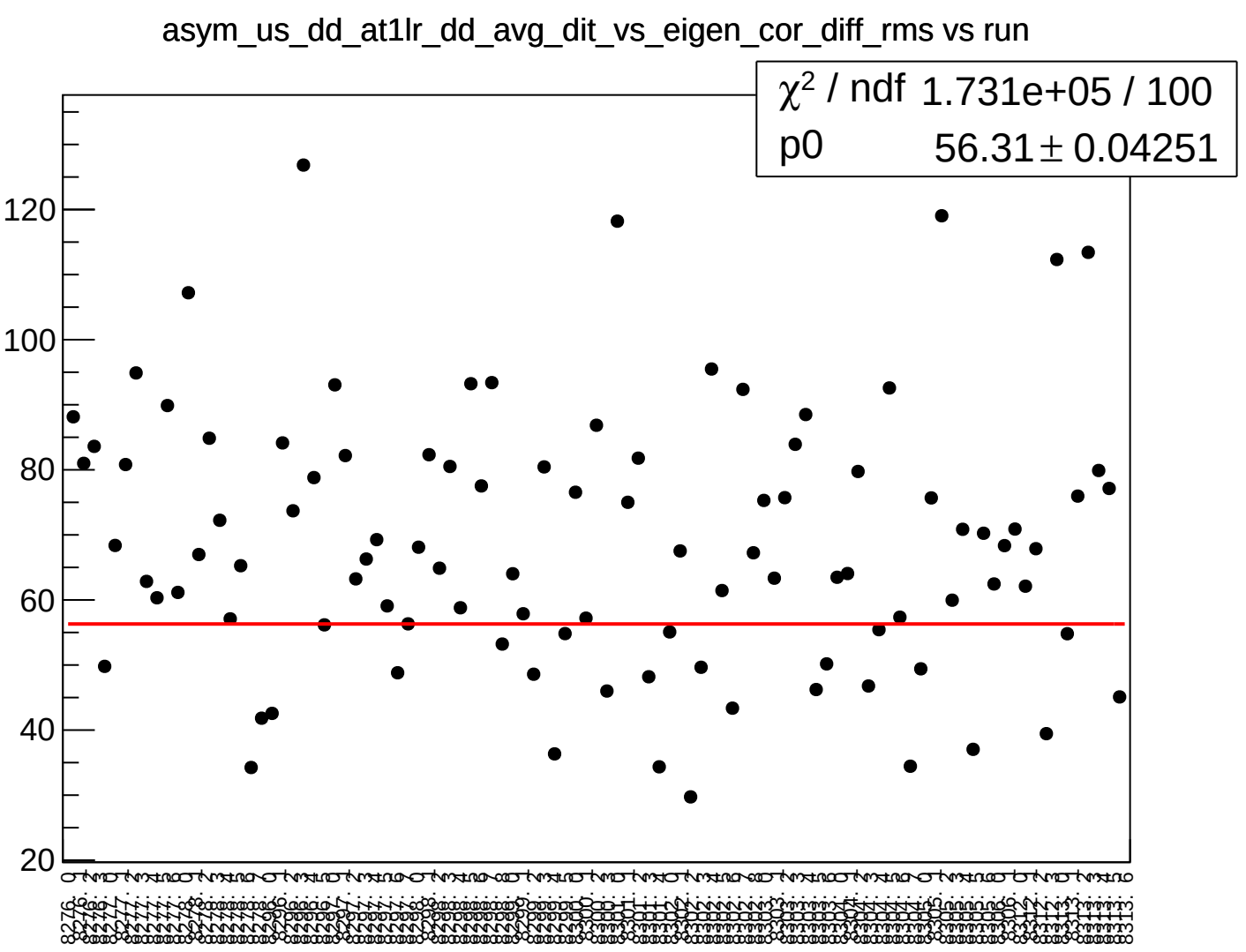

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.96e+05 / 100
p0 1.435e−10 ± 1.487e−13
2.5
2
1.5
1
0.5
0

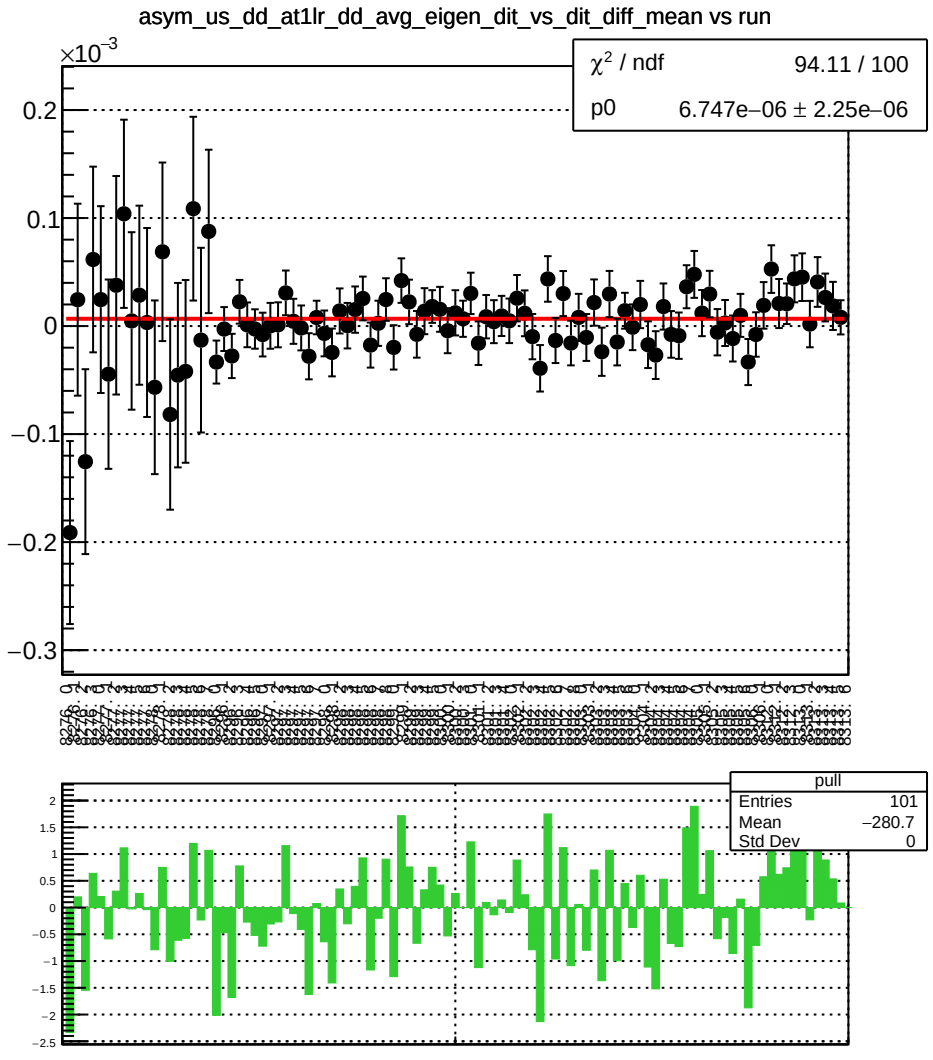

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 94.8 / 100
p0 0.09416 ± 0.06012
pull
Entries 101
Mean 92.48
Std Dev 0

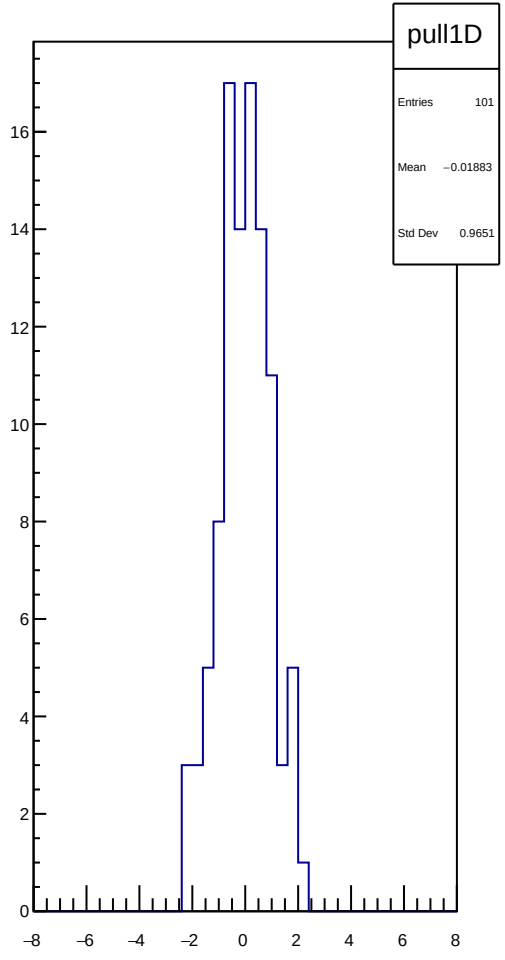

pull1D
Entries 101
Mean 0.04658
Std Dev 0.9677

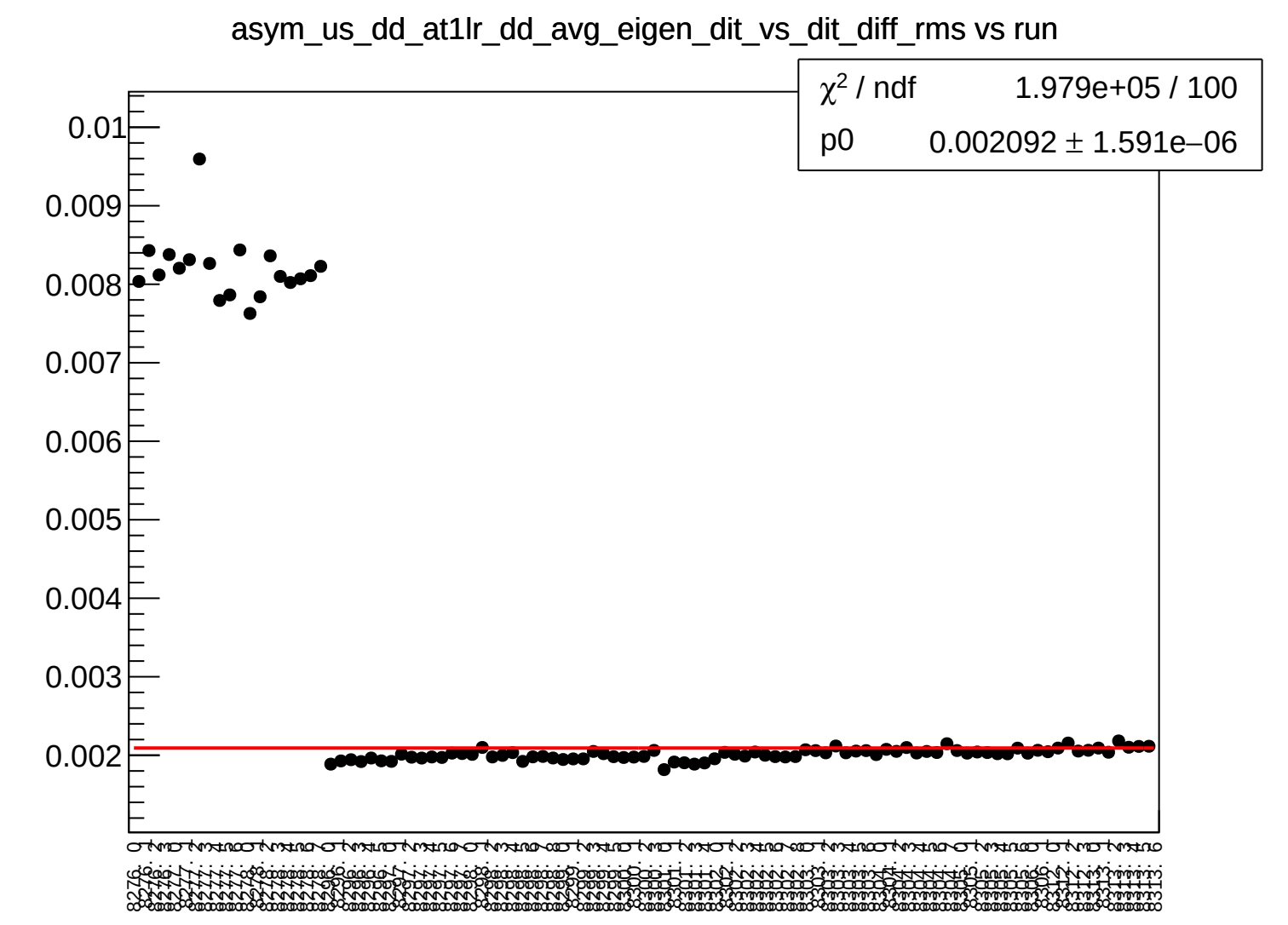

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.731e+05 / 100
p0 56.31 ± 0.04251
120
100
80
60
40
20

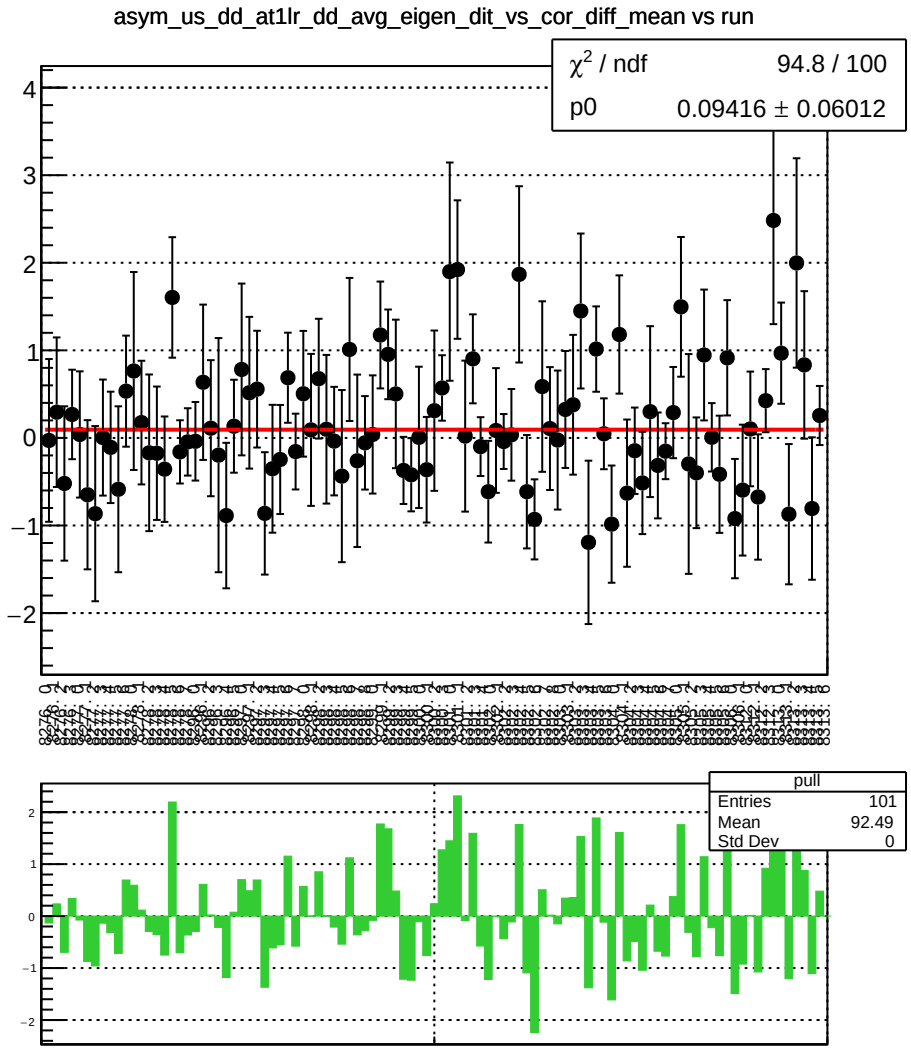

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.8 / 100
p0 0.09416 ± 0.06012
pull
Entries 101
Mean 92.48
Std Dev 0
pull1D
Entries 101
Mean 0.04658
Std Dev 0.9677

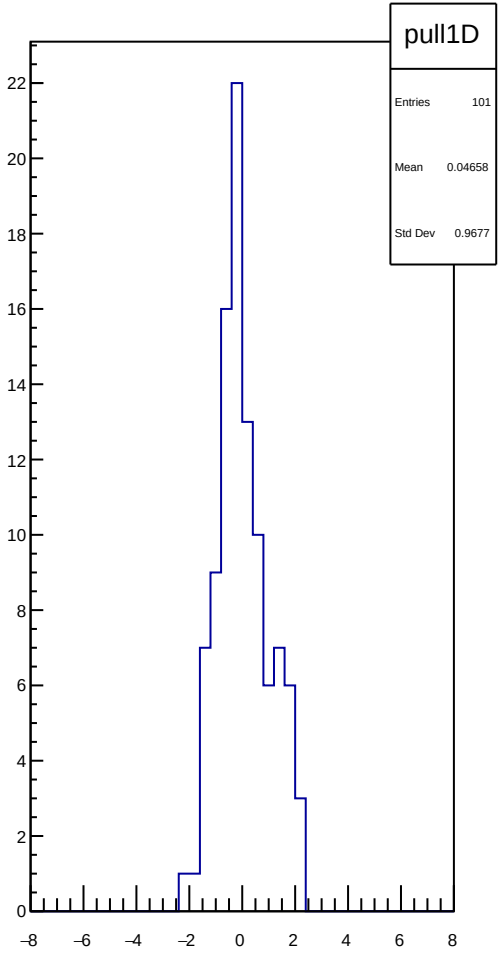

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.731e+05 / 100
p0 56.31 ± 0.04251
120
100
80
60
40
20

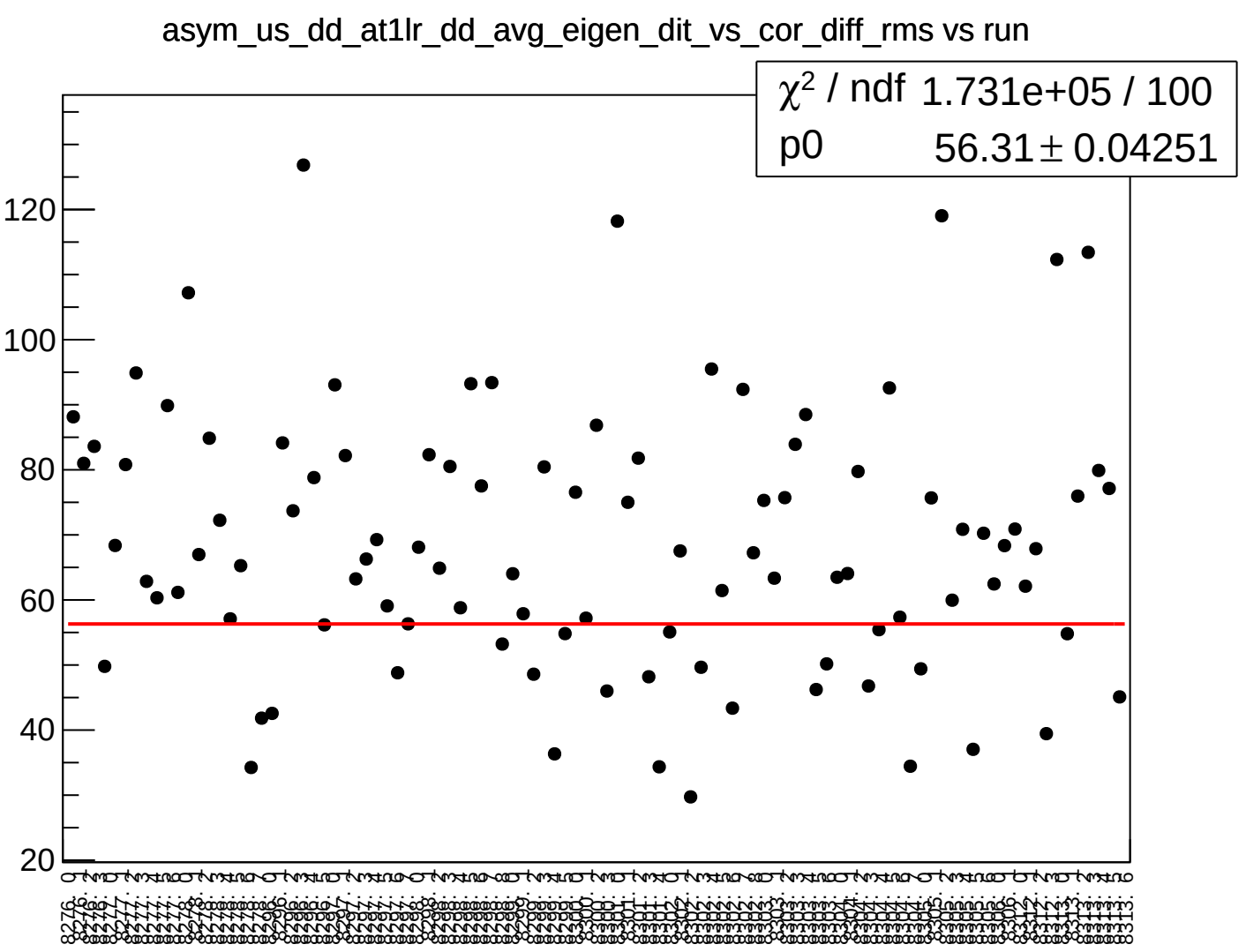

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.11 / 100
p0 6.747e−06 ± 2.25e−06
pull
Entries 101
Mean −280.7
Std Dev 0

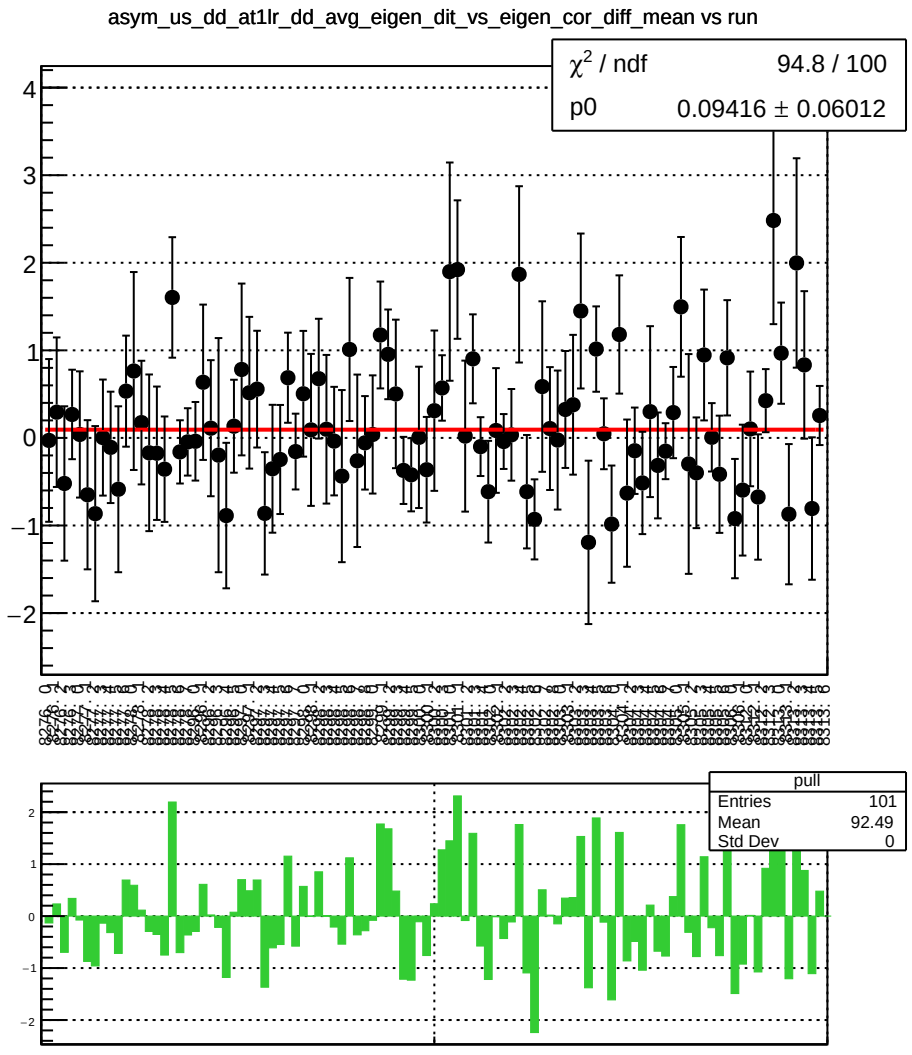

pull1D
Entries 101
Mean −0.01883
Std Dev 0.9651

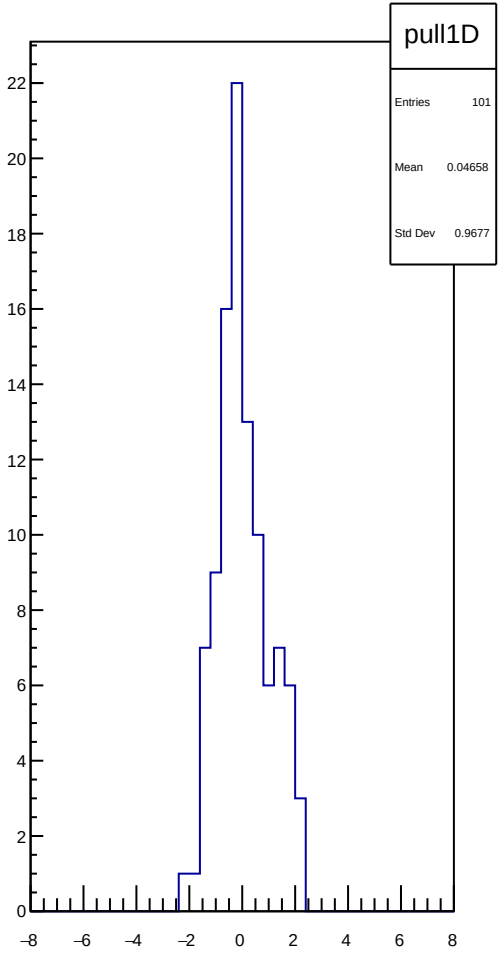

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.979e+05 / 100
p0 0.002092 ± 1.591e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

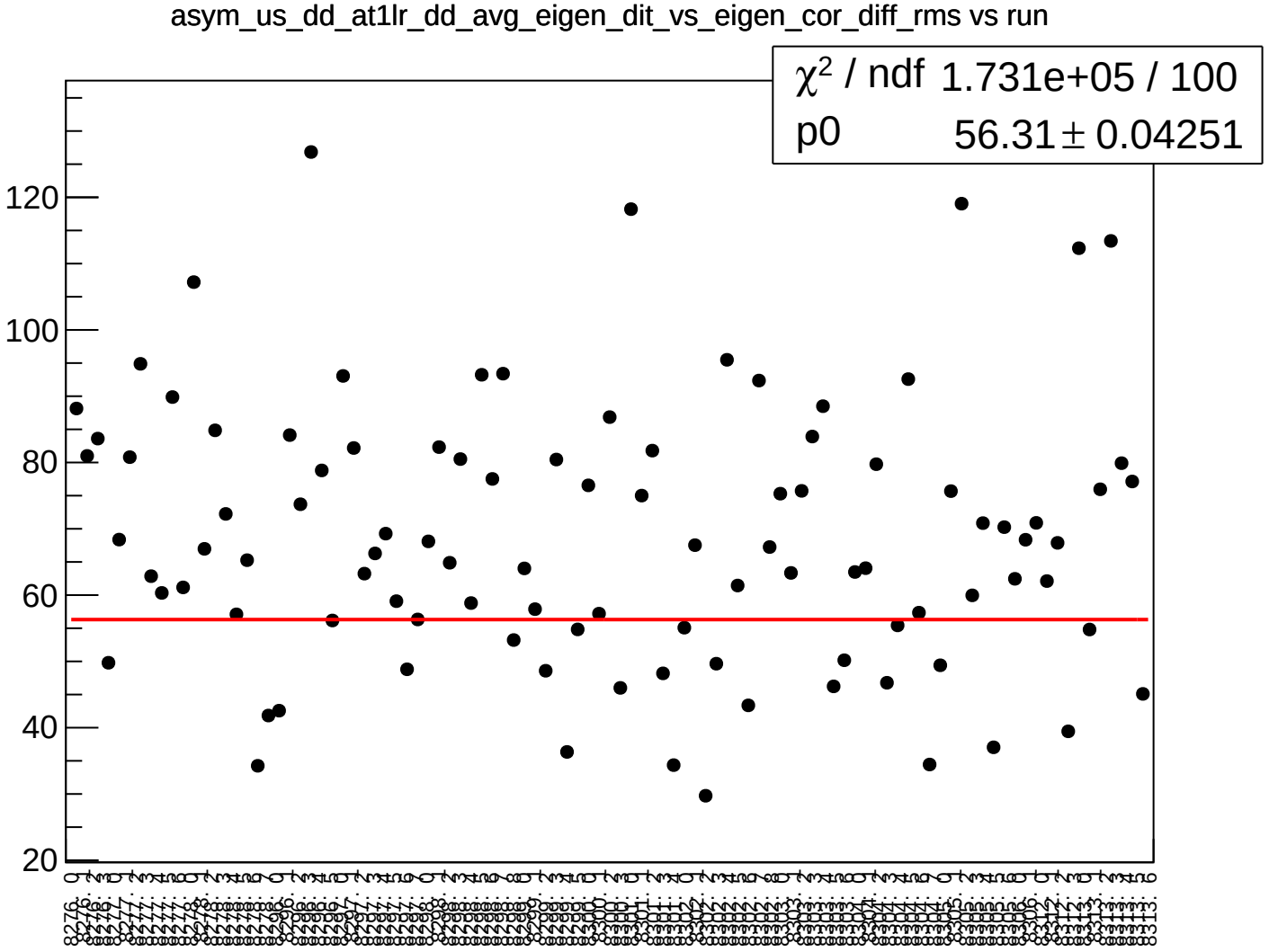

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.8 / 100
p0 0.09416 ± 0.06012
pull
Entries 101
Mean 92.49
Std Dev 0

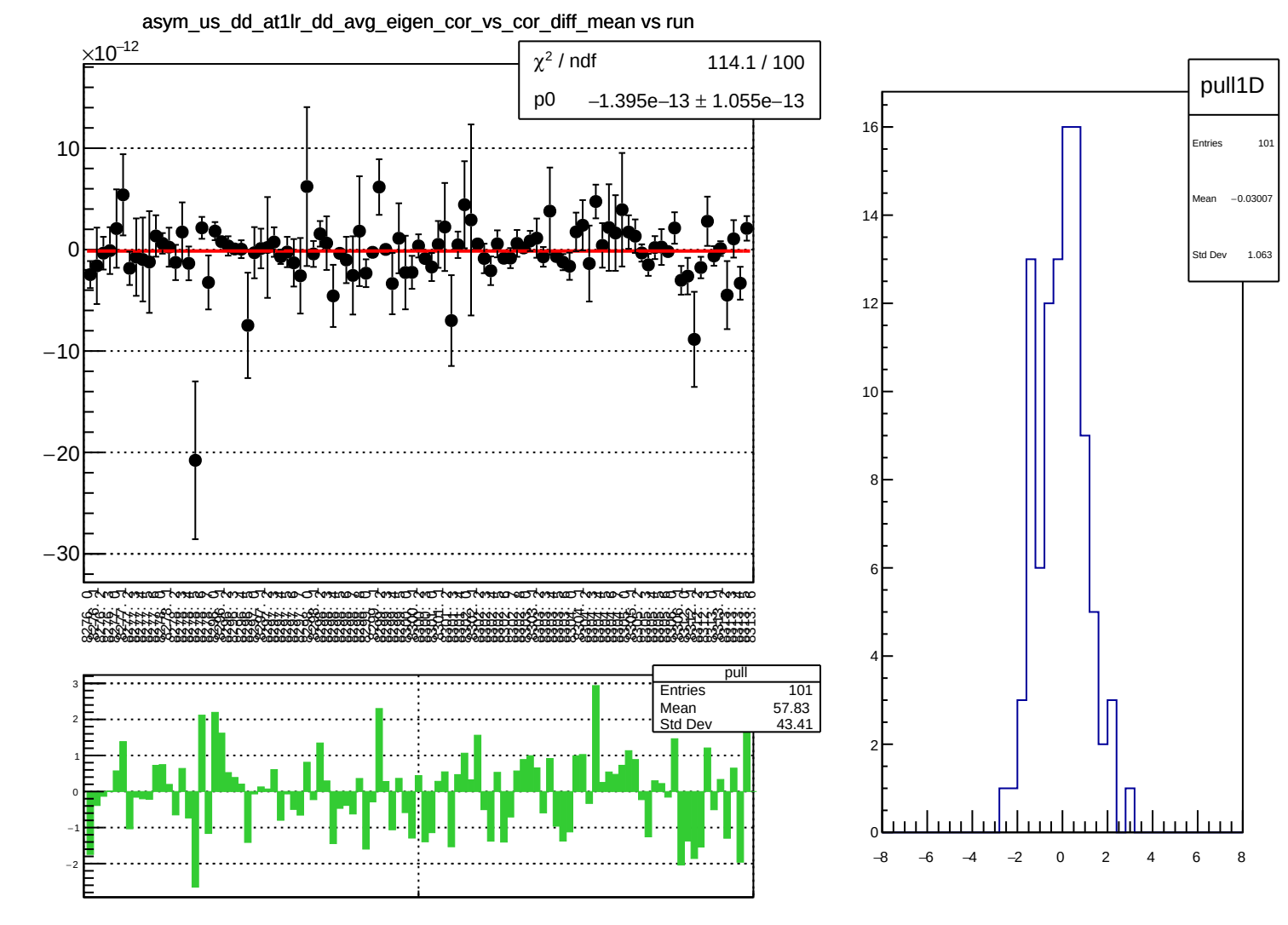

pull1D
Entries 101
Mean 0.04658
Std Dev 0.9677

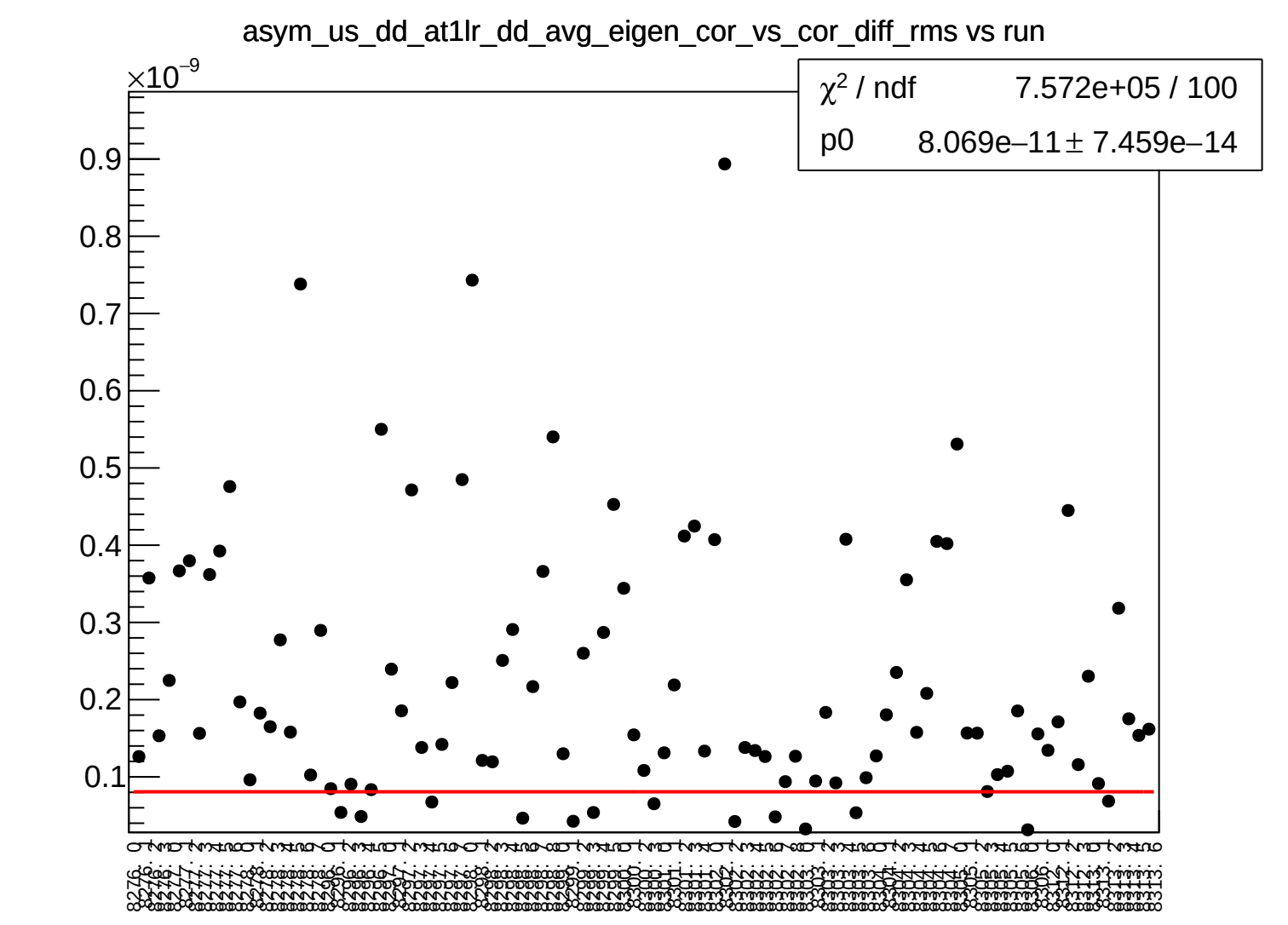

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.731e+05 / 100
p0 56.31 ± 0.04251
120
100
80
60
40
20

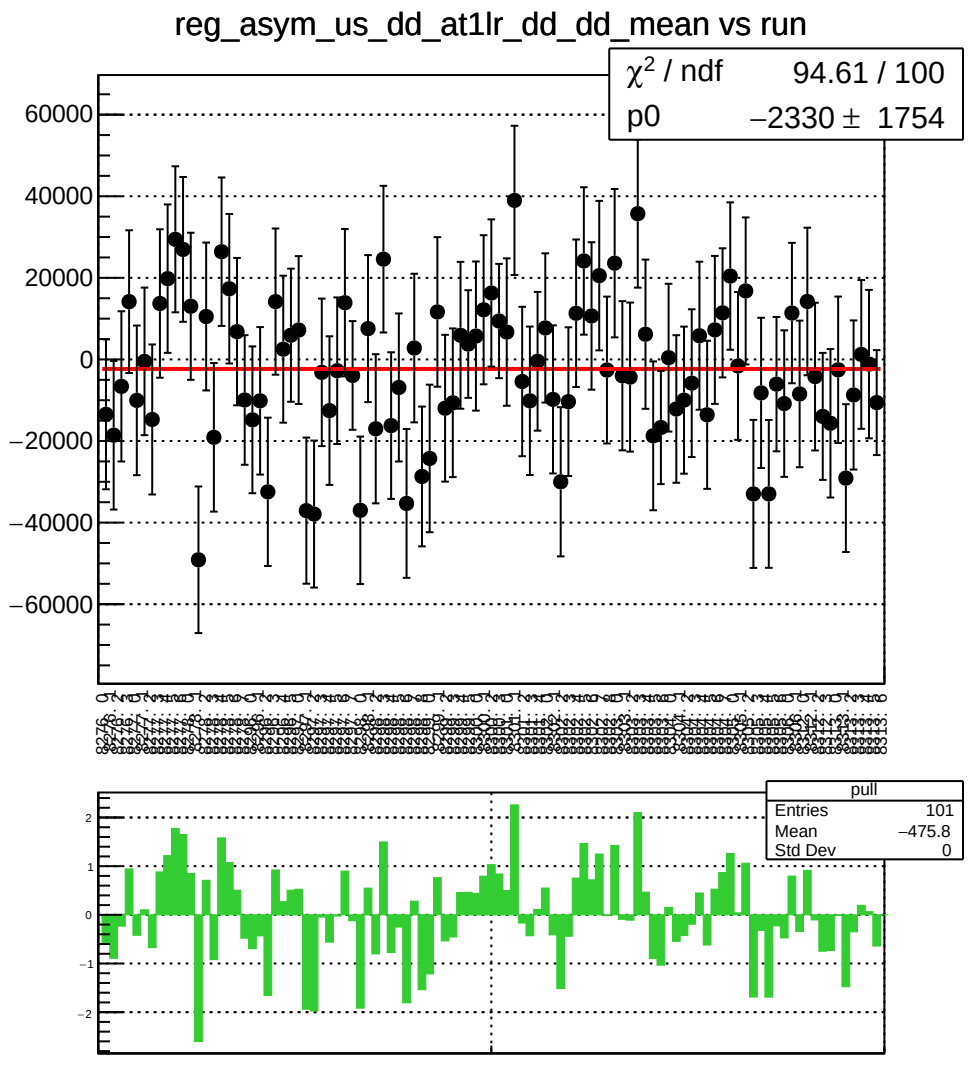

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.8 / 100
p0 0.09416 ± 0.06012
pull
Entries 101
Mean 92.49
Std Dev 0

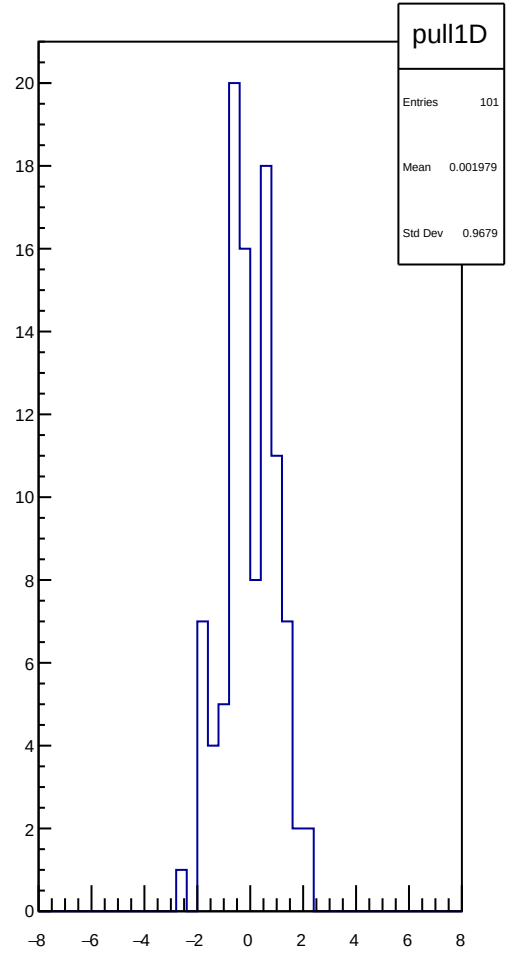

pull1D
Entries 101
Mean 0.04658
Std Dev 0.9677

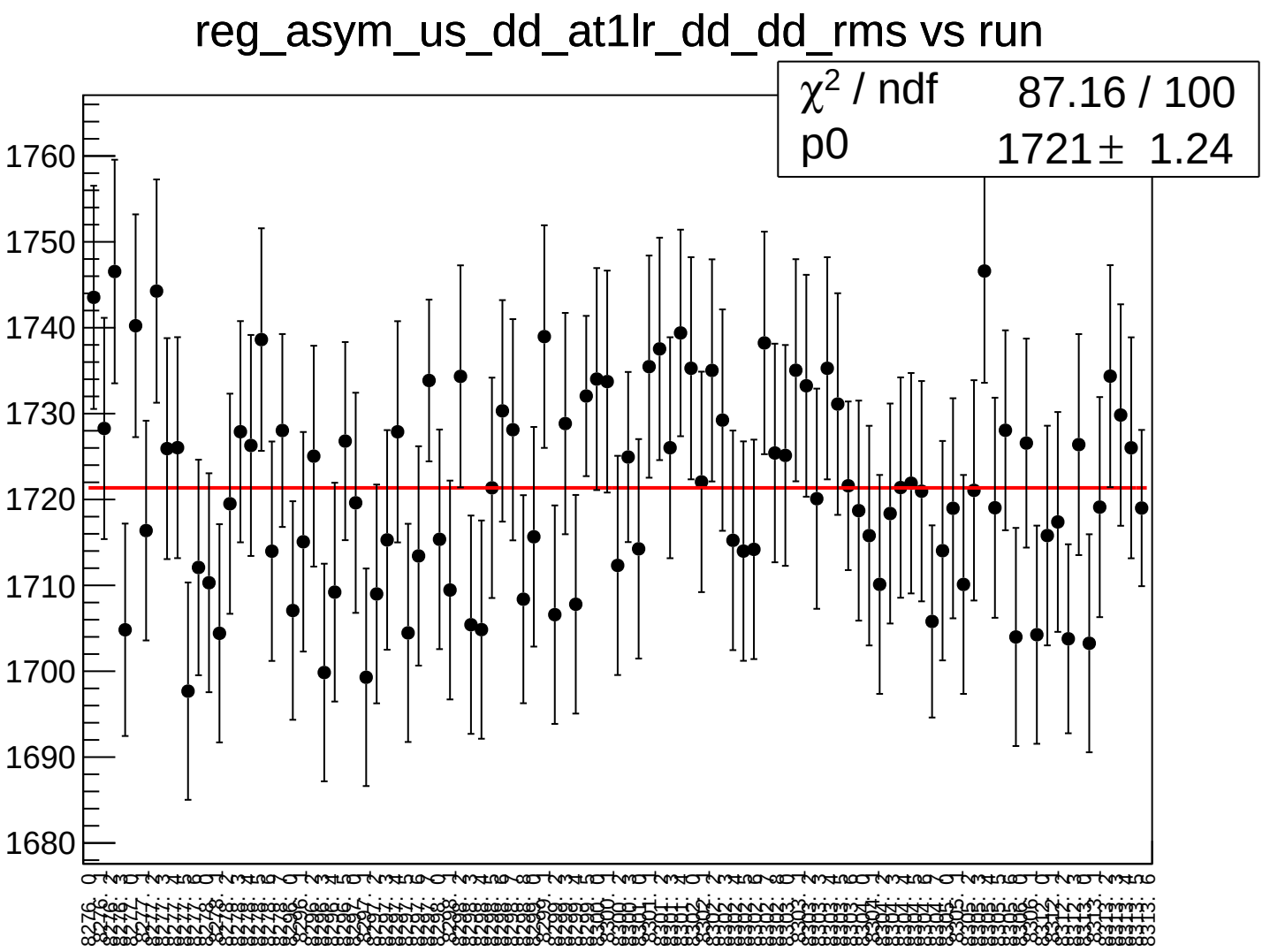

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.731e+05 / 100
p0 56.31 ± 0.04251
120
100
80
60
40
20

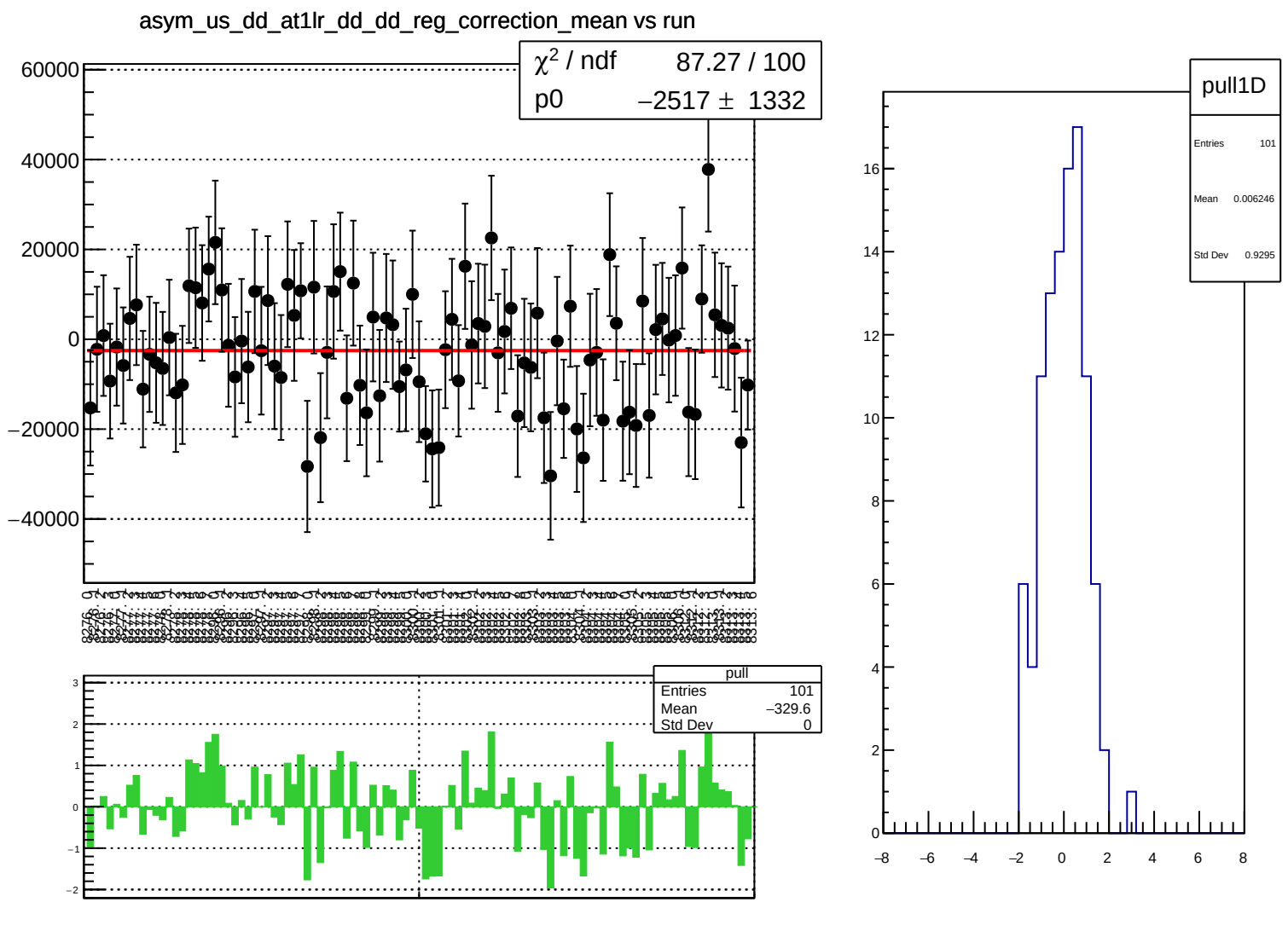

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 114.1 / 100
p0 −1.395e−13 ± 1.055e−13
10
0
−10
−20
−30
pull
Entries 101
Mean 57.83
Std Dev 43.41
3
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.03007
Std Dev 1.063
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

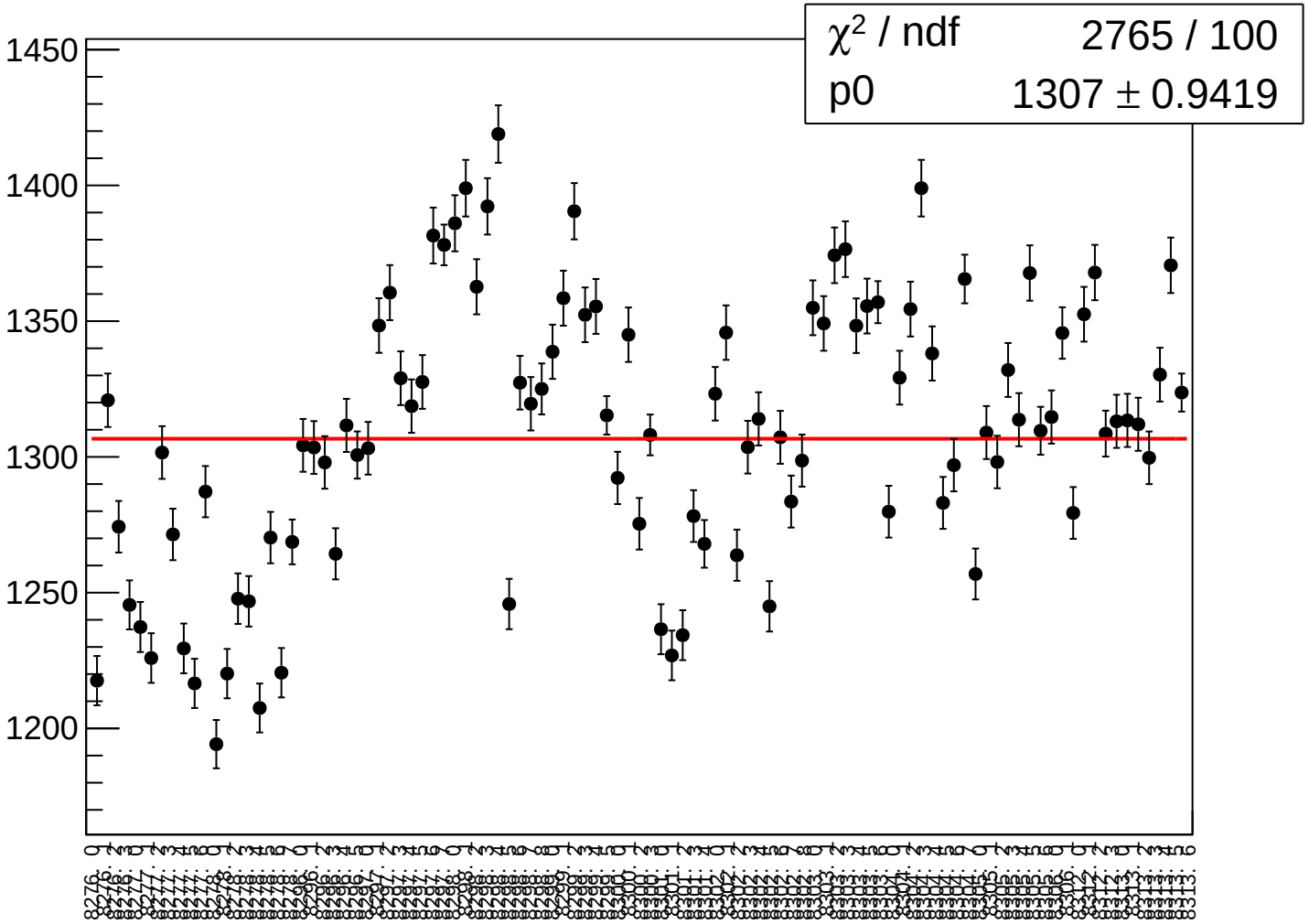

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.572e+05 / 100
p0 8.069e−11 ± 7.459e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

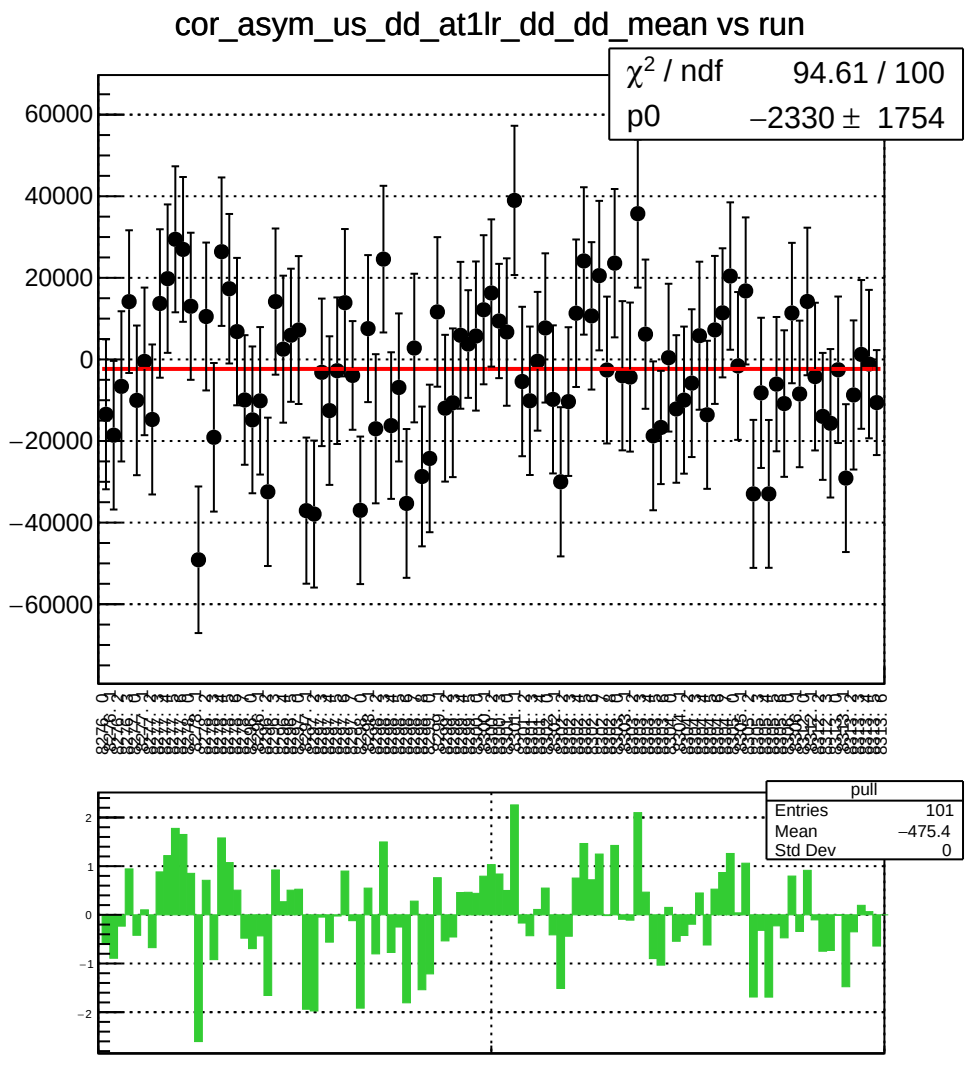

reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 94.61 / 100
p0 −2330 ± 1754
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −475.8
Std Dev 0
2
1
0
−1
−2

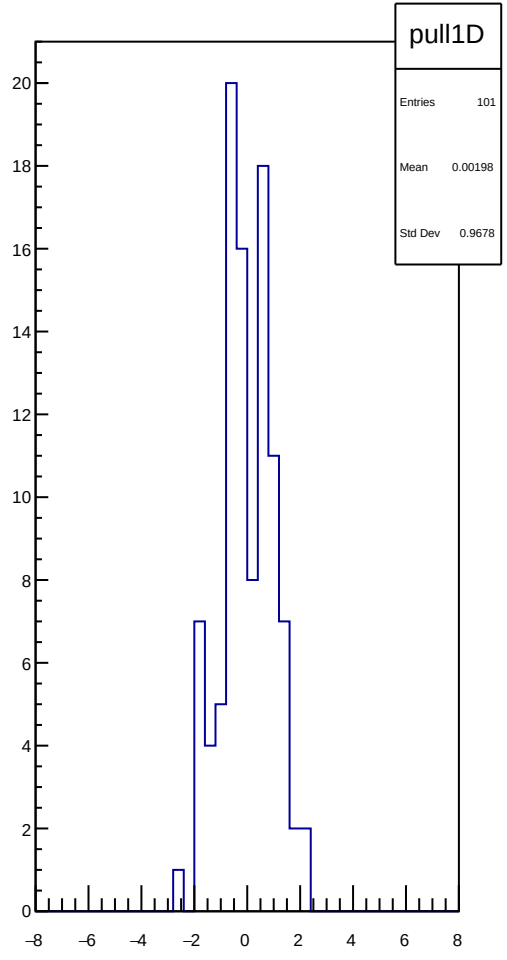

pull1D
Entries 101
Mean 0.001979
Std Dev 0.9679
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

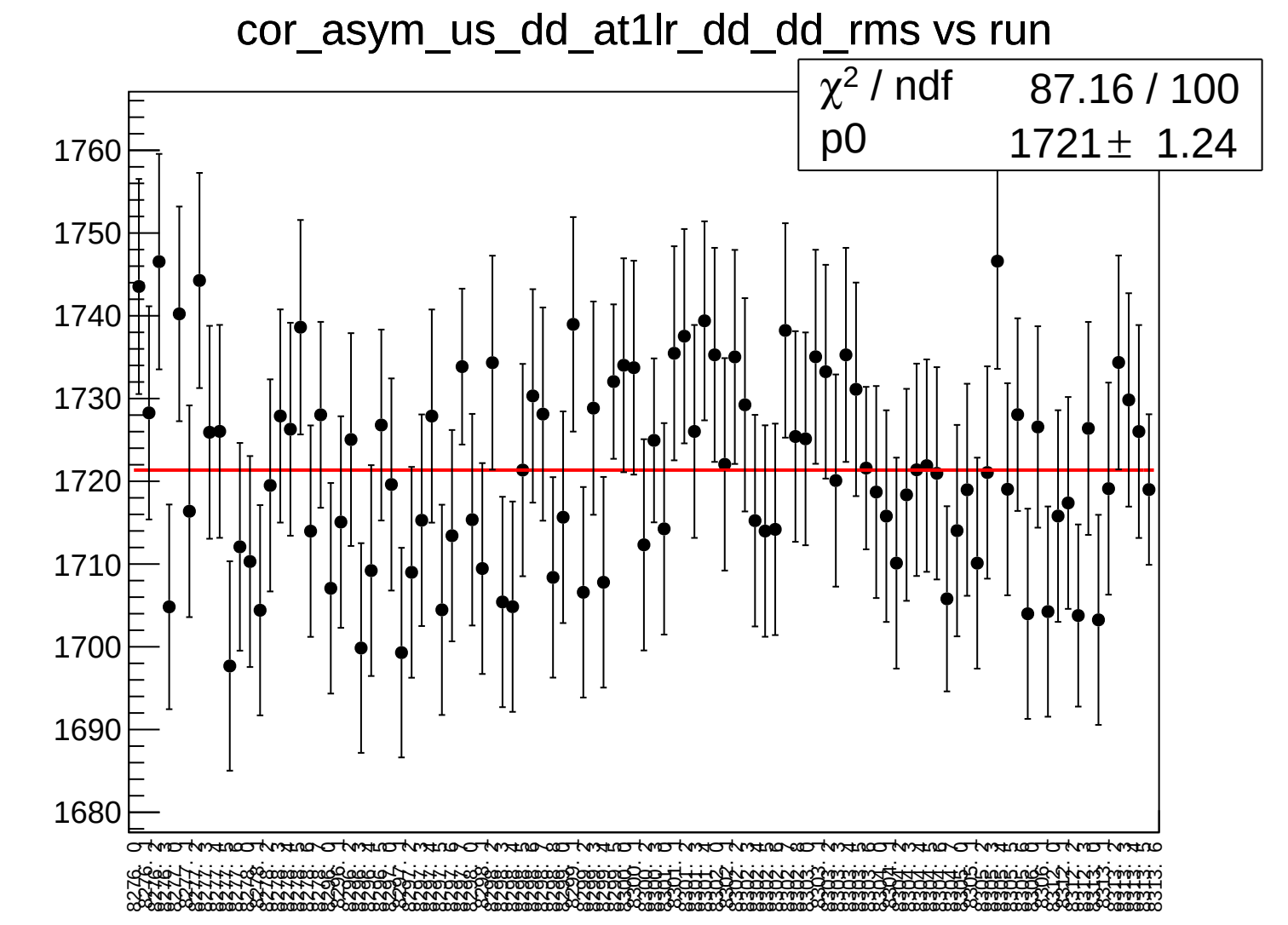

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 87.16 / 100
p0 1721 ± 1.24
1760
1750
1740
1730
1720
1710
1700
1690
1680

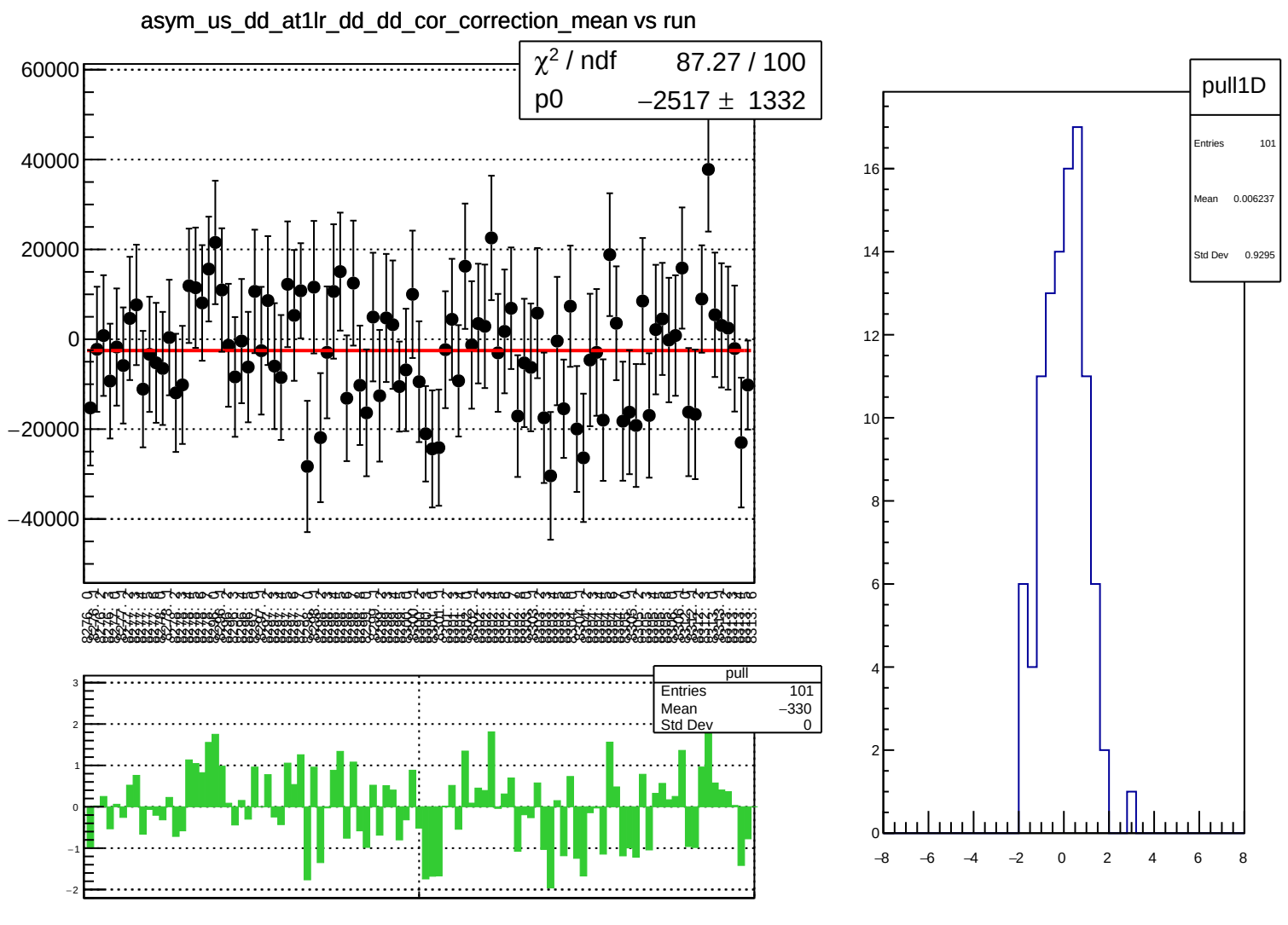

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
χ² / ndf 87.27 / 100
p0 −2517 ± 1332
60000
40000
20000
0
−20000
−40000
pull
Entries 101
Mean −329.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.006246
Std Dev 0.9295
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

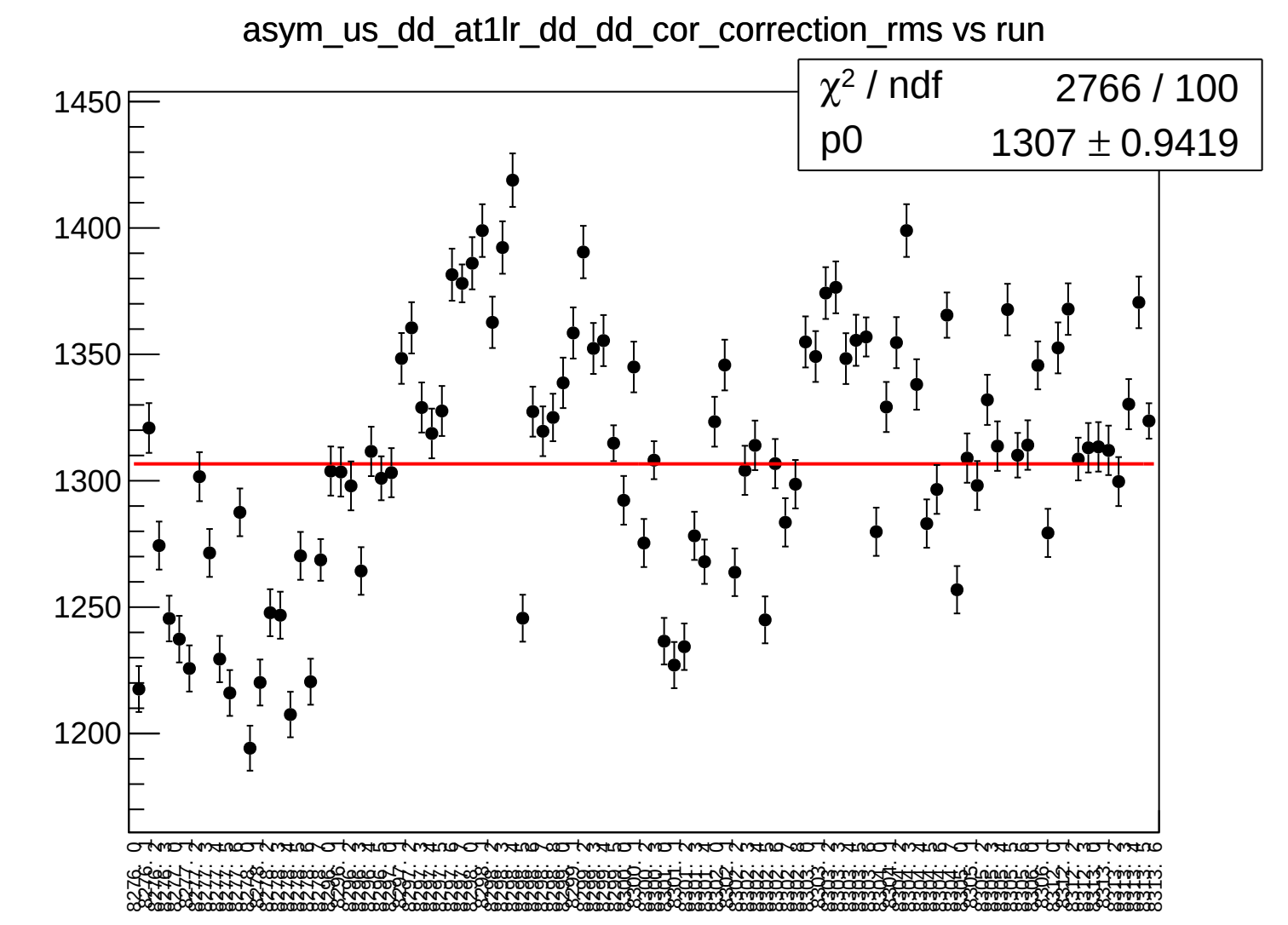

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 2765 / 100
p0 1307 ± 0.9419
1450
1400
1350
1300
1250
1200

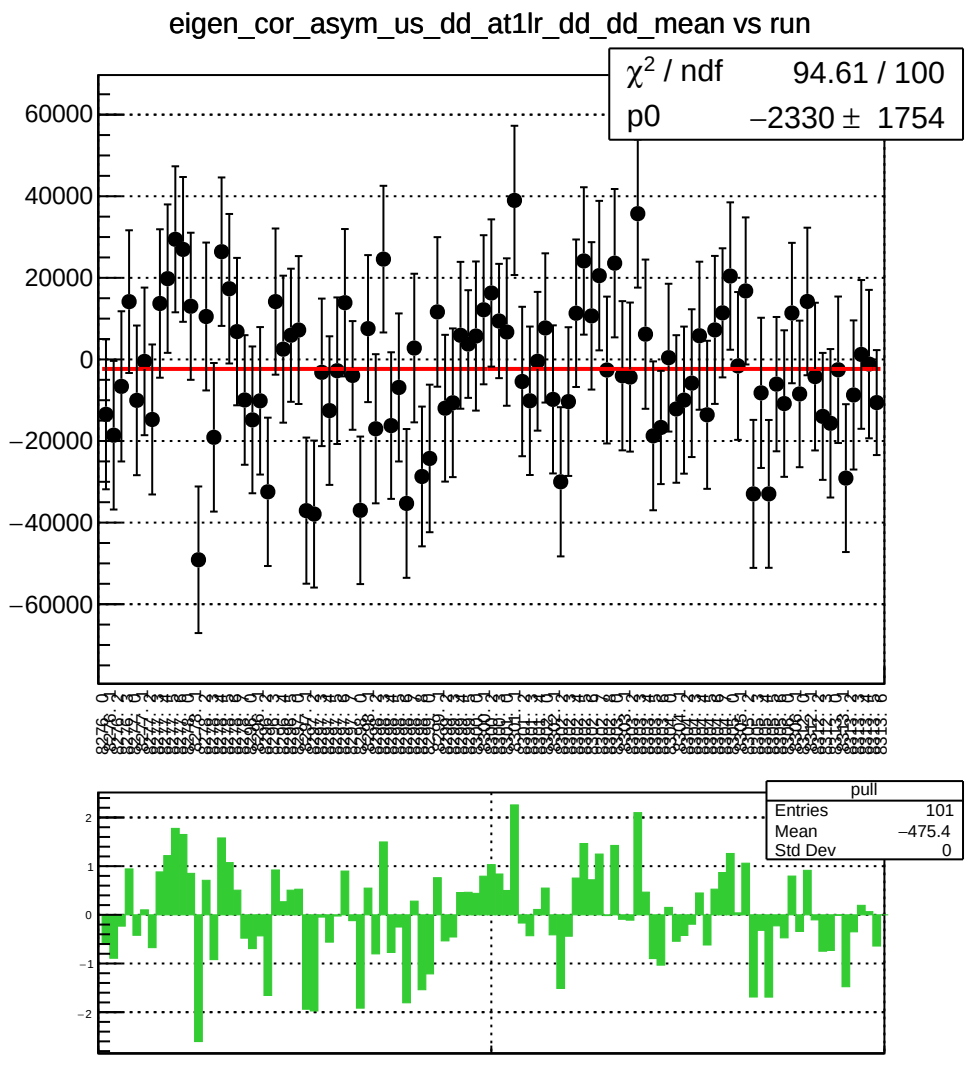

cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 94.61 / 100
p0 −2330 ± 1754
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −475.4
Std Dev 0
2
1
0
−1
−2

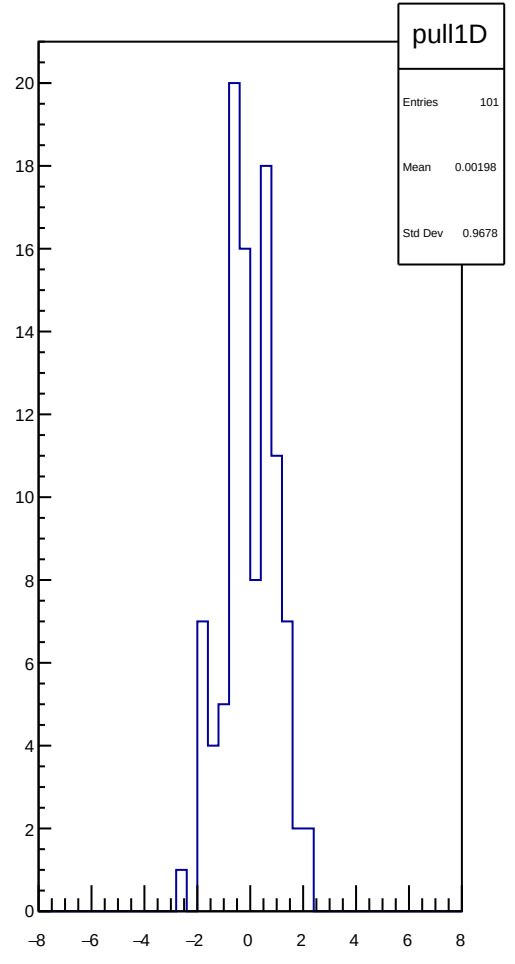

pull1D
Entries 101
Mean 0.00198
Std Dev 0.9678
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 87.16 / 100
p0 1721 ± 1.24
1760
1750
1740
1730
1720
1710
1700
1690
1680


asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
χ² / ndf 87.27 / 100
p0 −2517 ± 1332
60000
40000
20000
0
−20000
−40000
pull
Entries 101
Mean −330
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.006237
Std Dev 0.9295
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 2766 / 100
p0 1307 ± 0.9419
1450
1400
1350
1300
1250
1200


eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 94.61 / 100
p0 −2330 ± 1754
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −475.4
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 101
Mean 0.00198
Std Dev 0.9678
20
18
16
14
12
10
8
6
4
2
0
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−4
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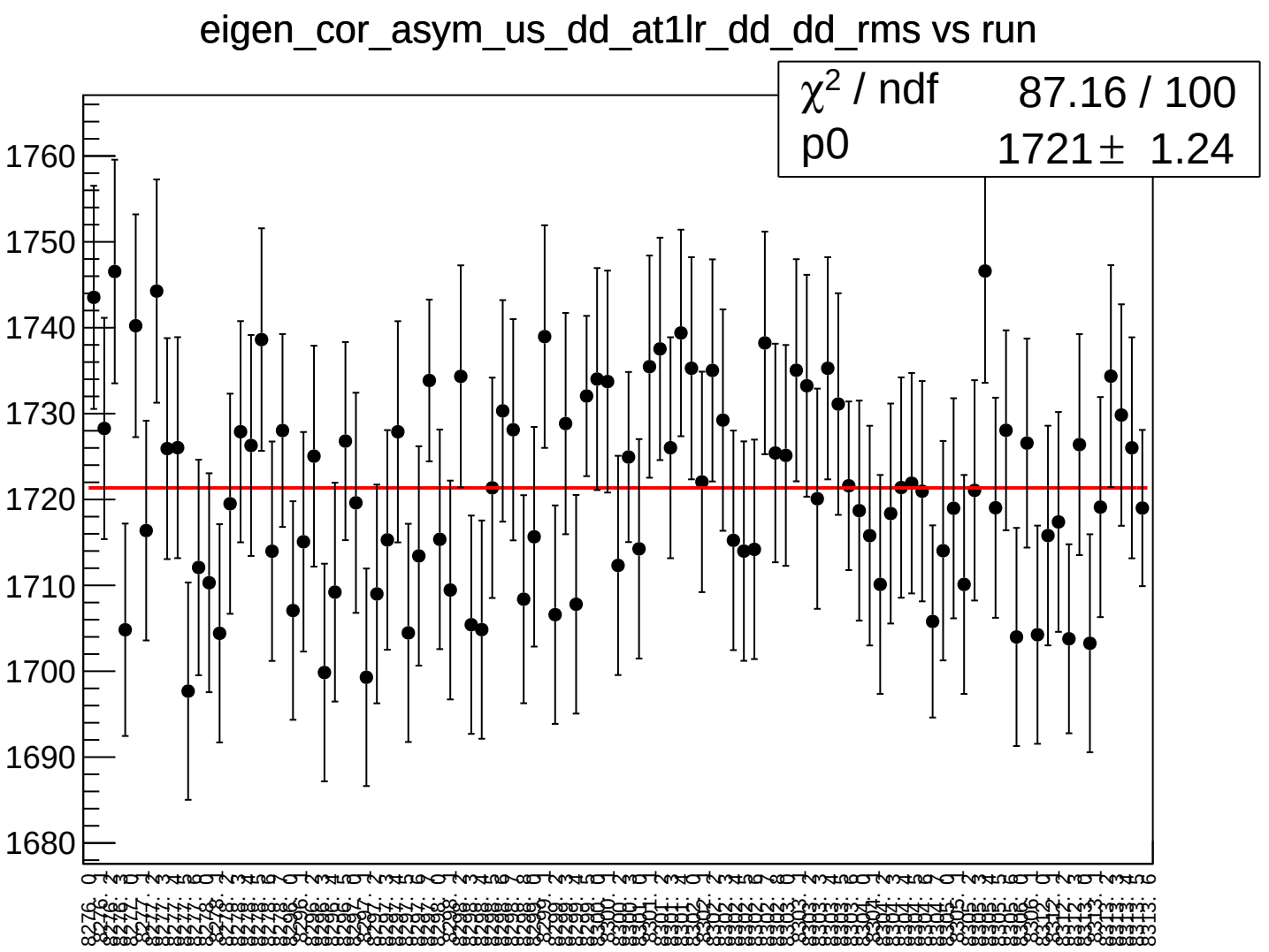
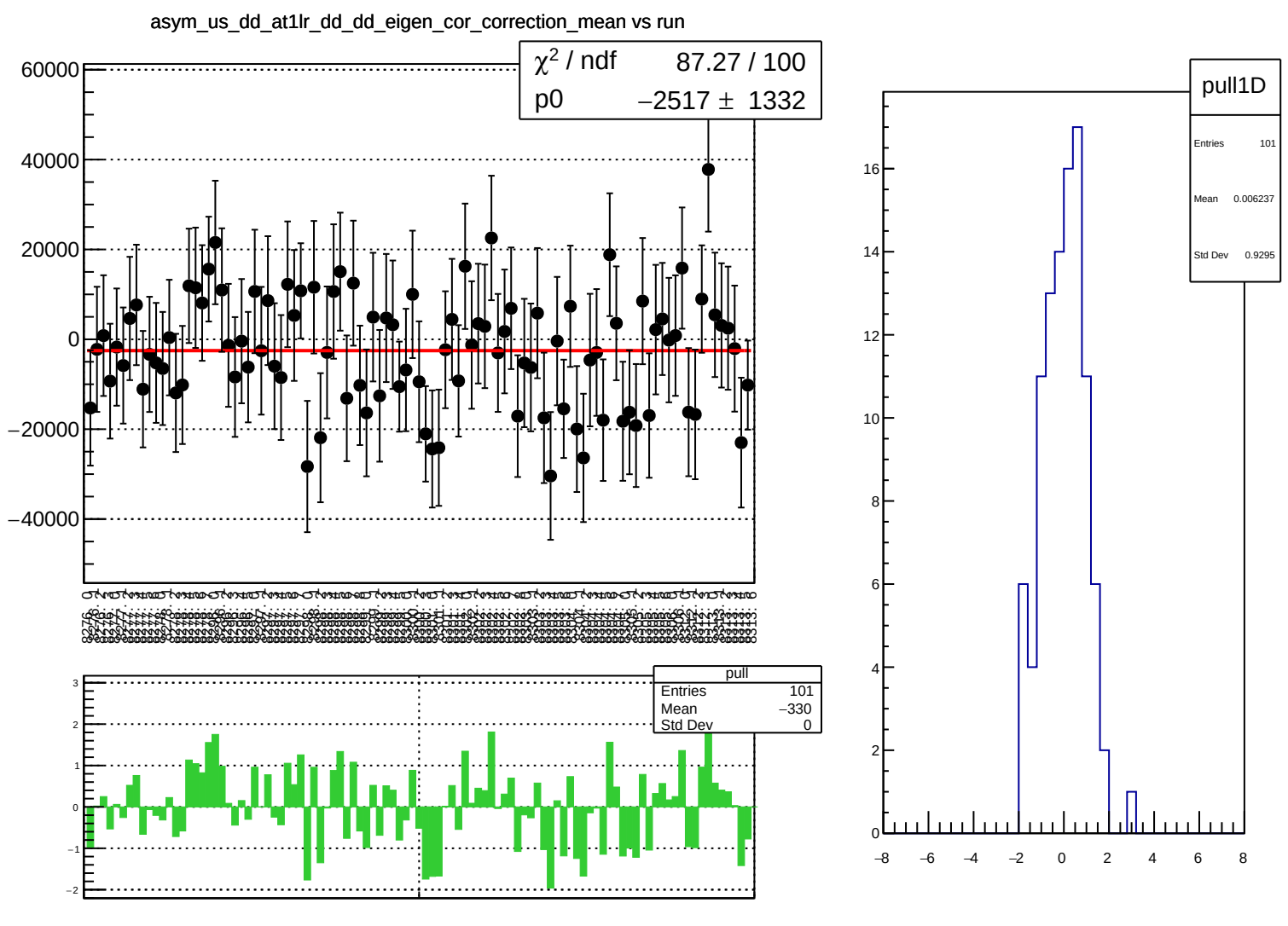
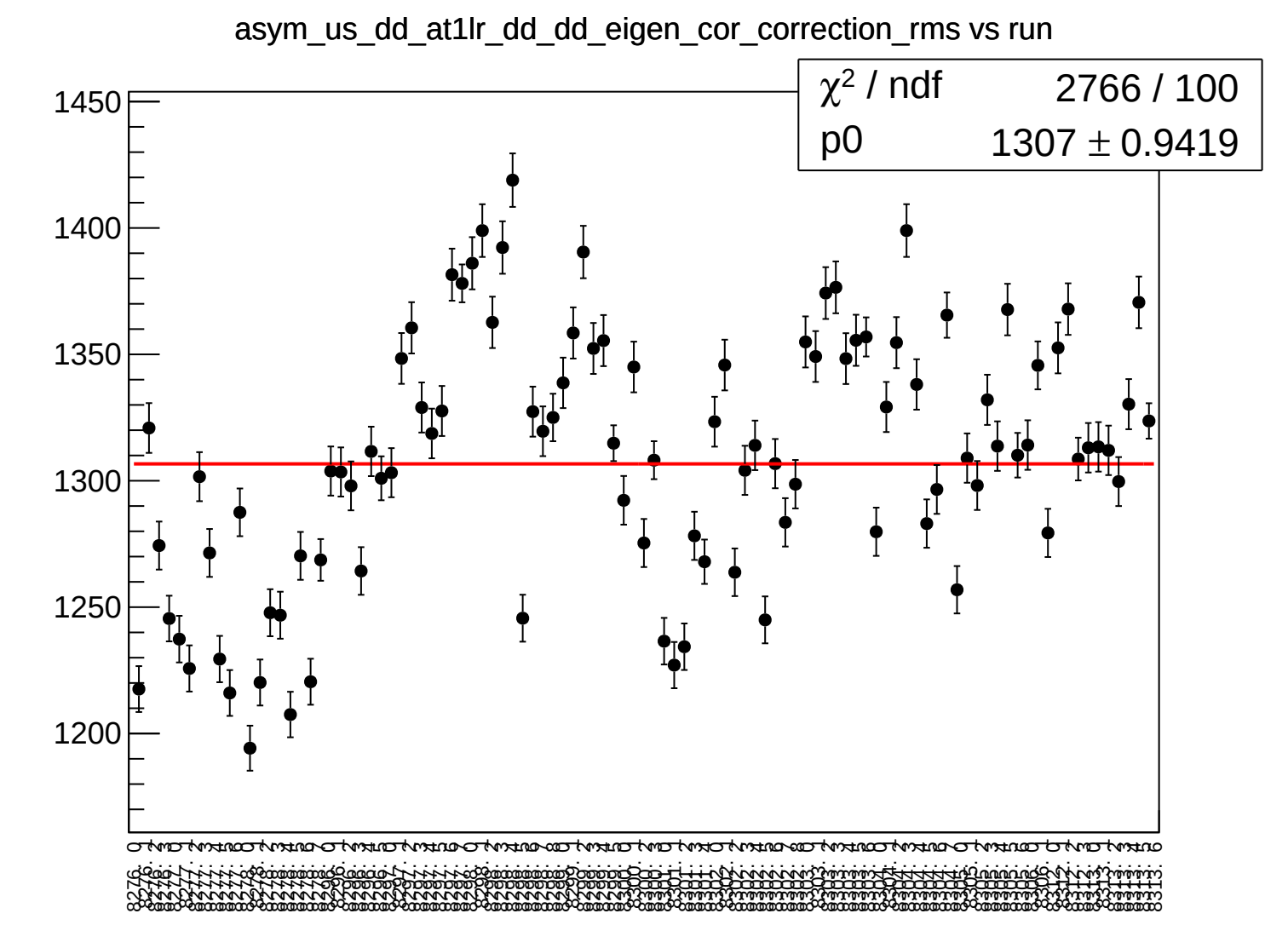
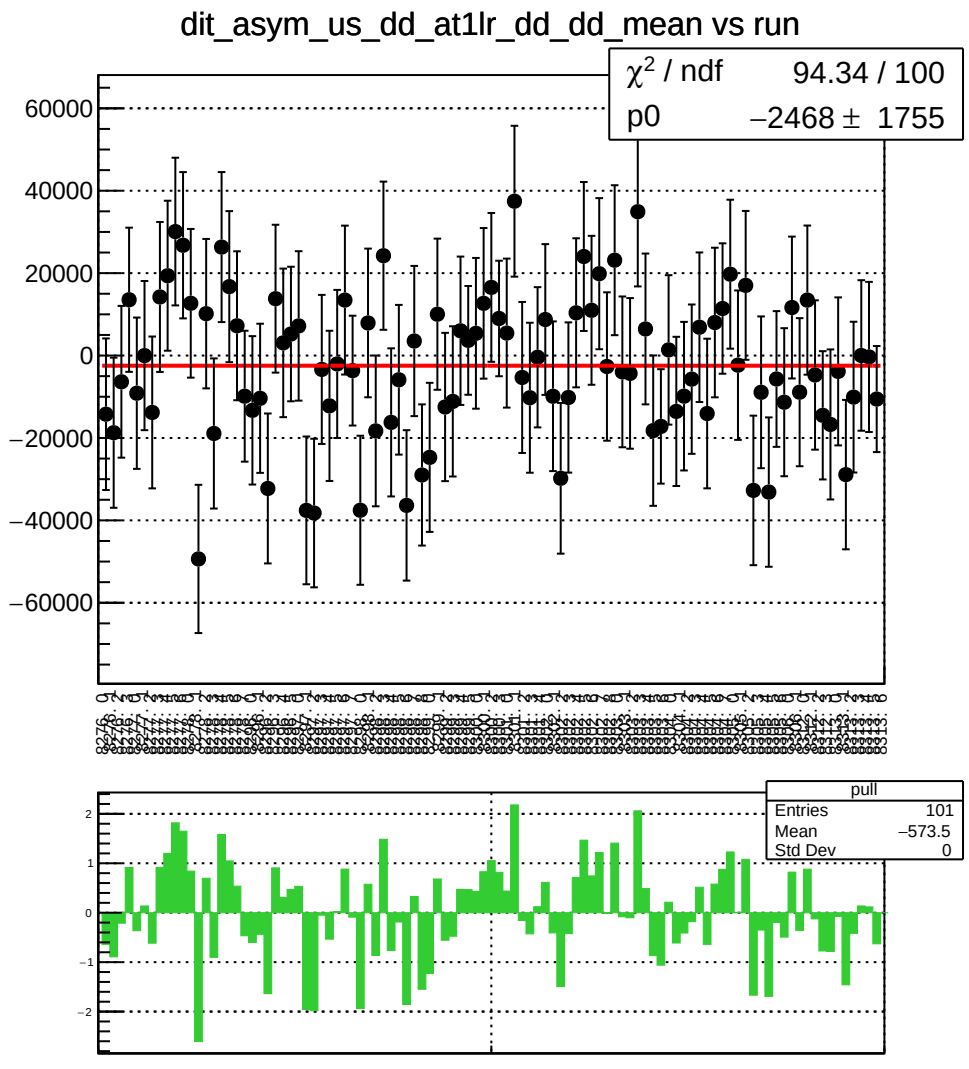
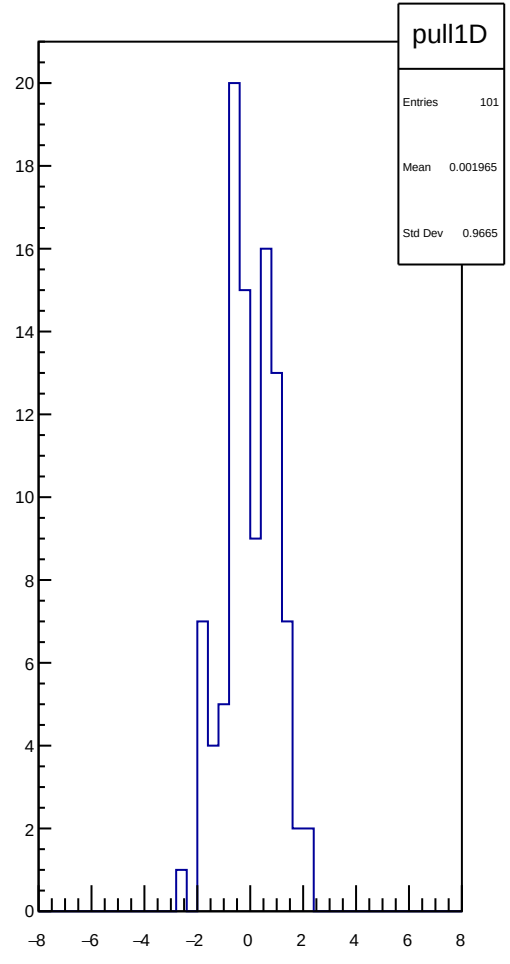
0
2
4
6
8

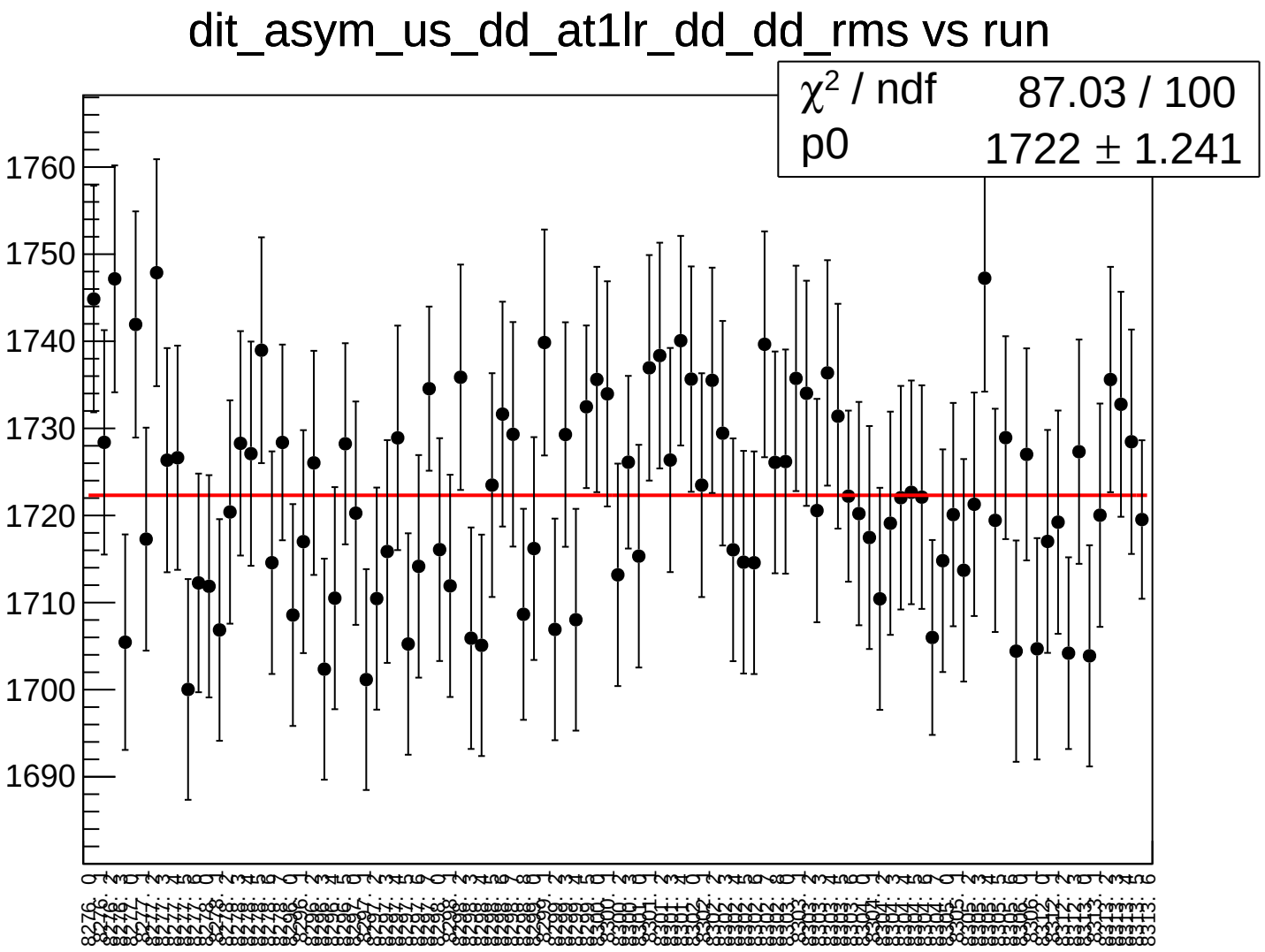

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 87.16 / 100
p0 1721 ± 1.24
1760
1750
1740
1730
1720
1710
1700
1690
1680

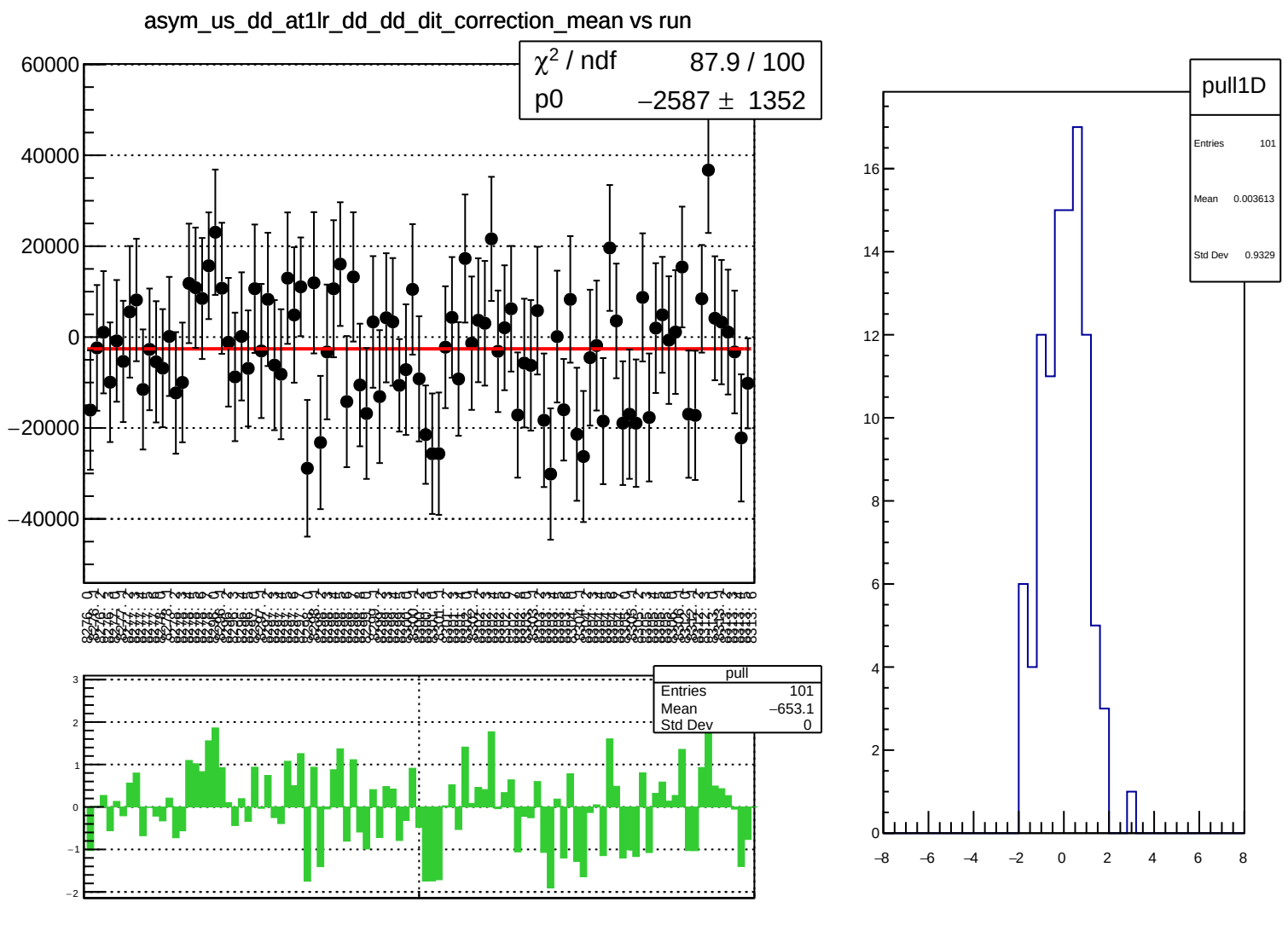

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 87.27 / 100
p0 −2517 ± 1332
60000
40000
20000
0
−20000
−40000
pull
Entries 101
Mean −330
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.006237
Std Dev 0.9295
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

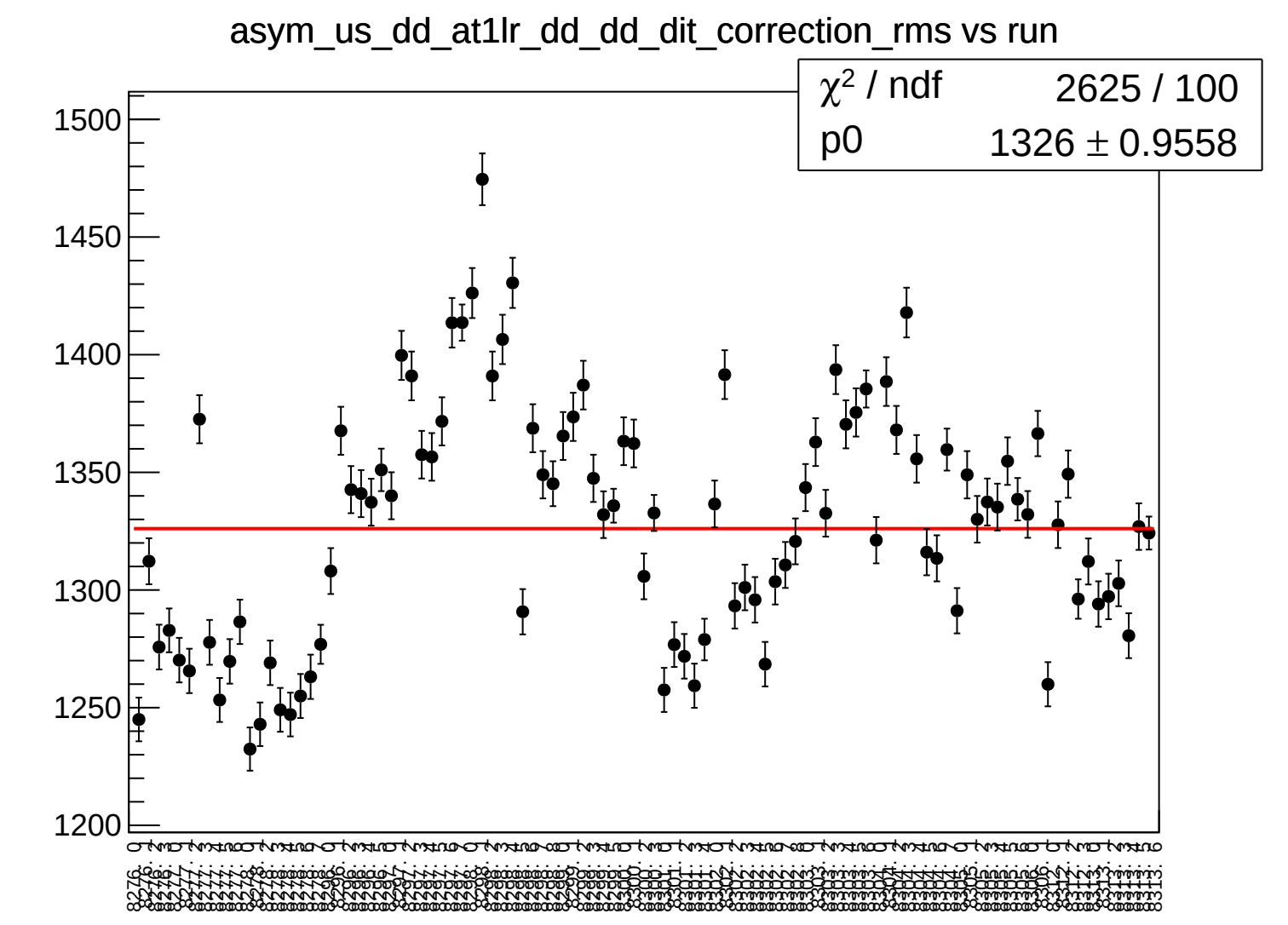

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 2766 / 100
p0 1307 ± 0.9419
1450
1400
1350
1300
1250
1200

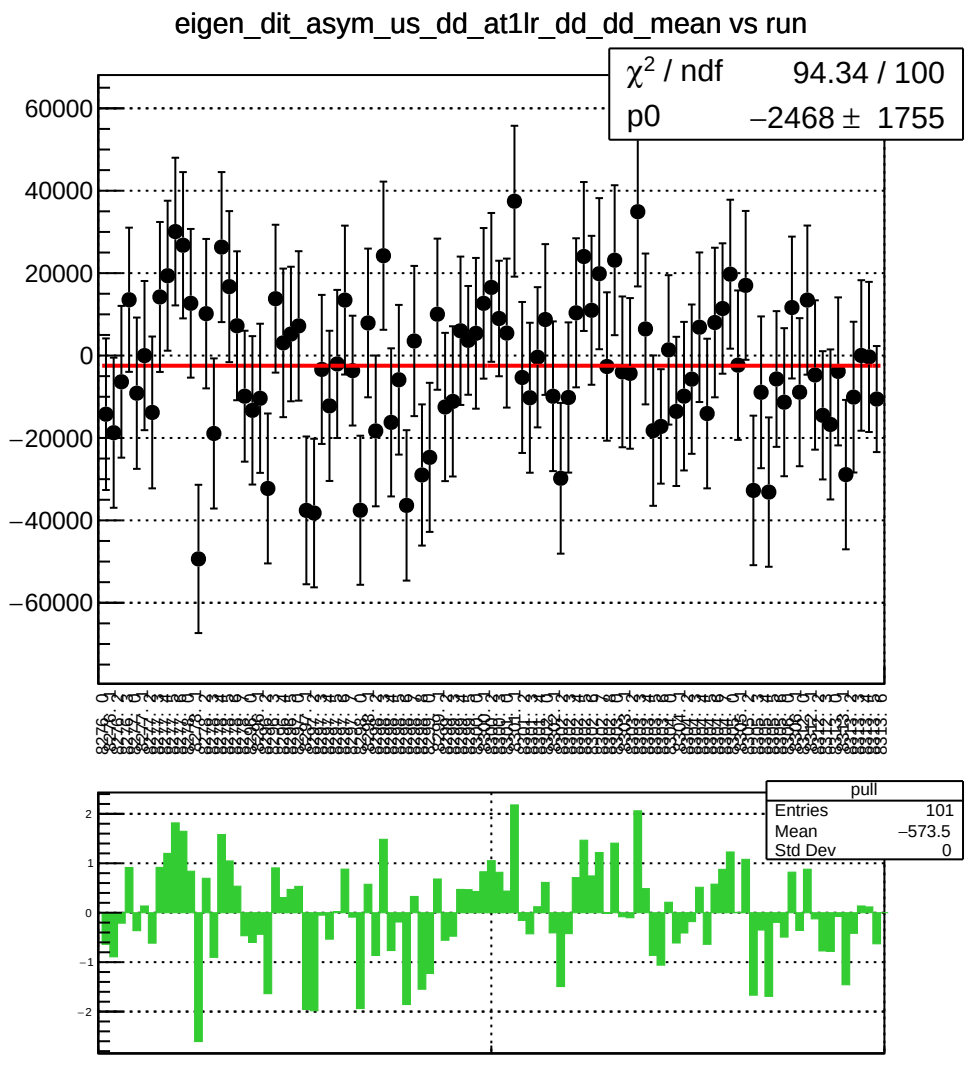

dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 94.34 / 100
p0 −2468 ± 1755
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −573.5
Std Dev 0
2
1
0
−1
−2

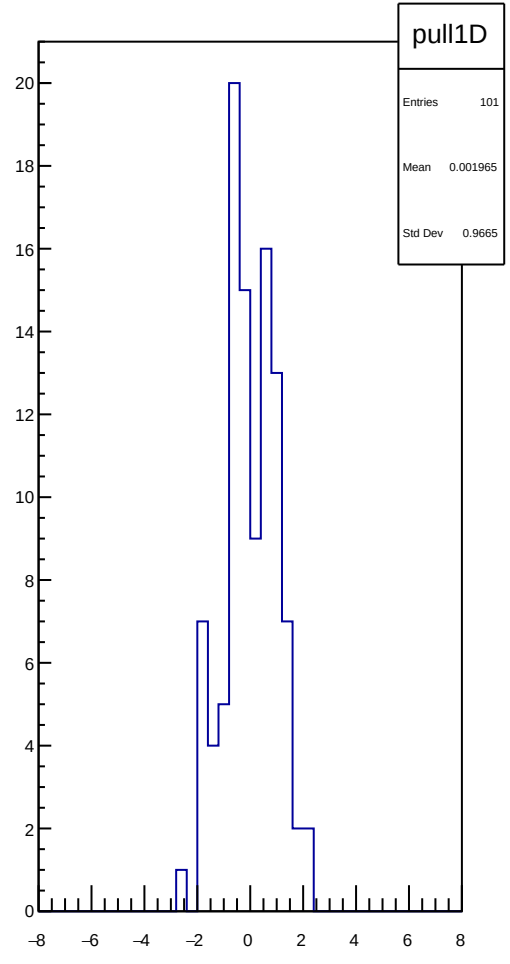

pull1D
Entries 101
Mean 0.001965
Std Dev 0.9665
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

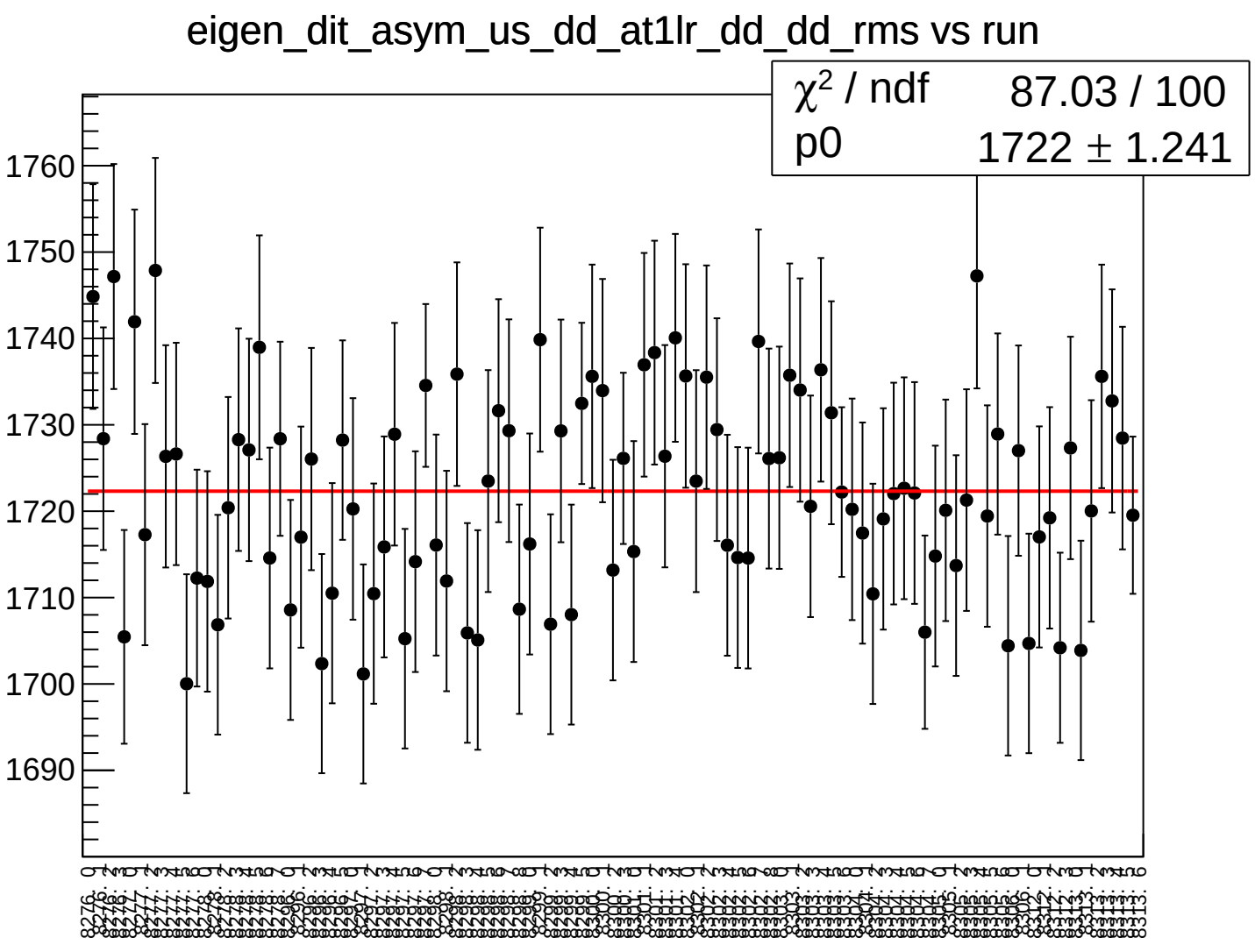

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 87.03 / 100
p0 1722 ± 1.241
1760
1750
1740
1730
1720
1710
1700
1690

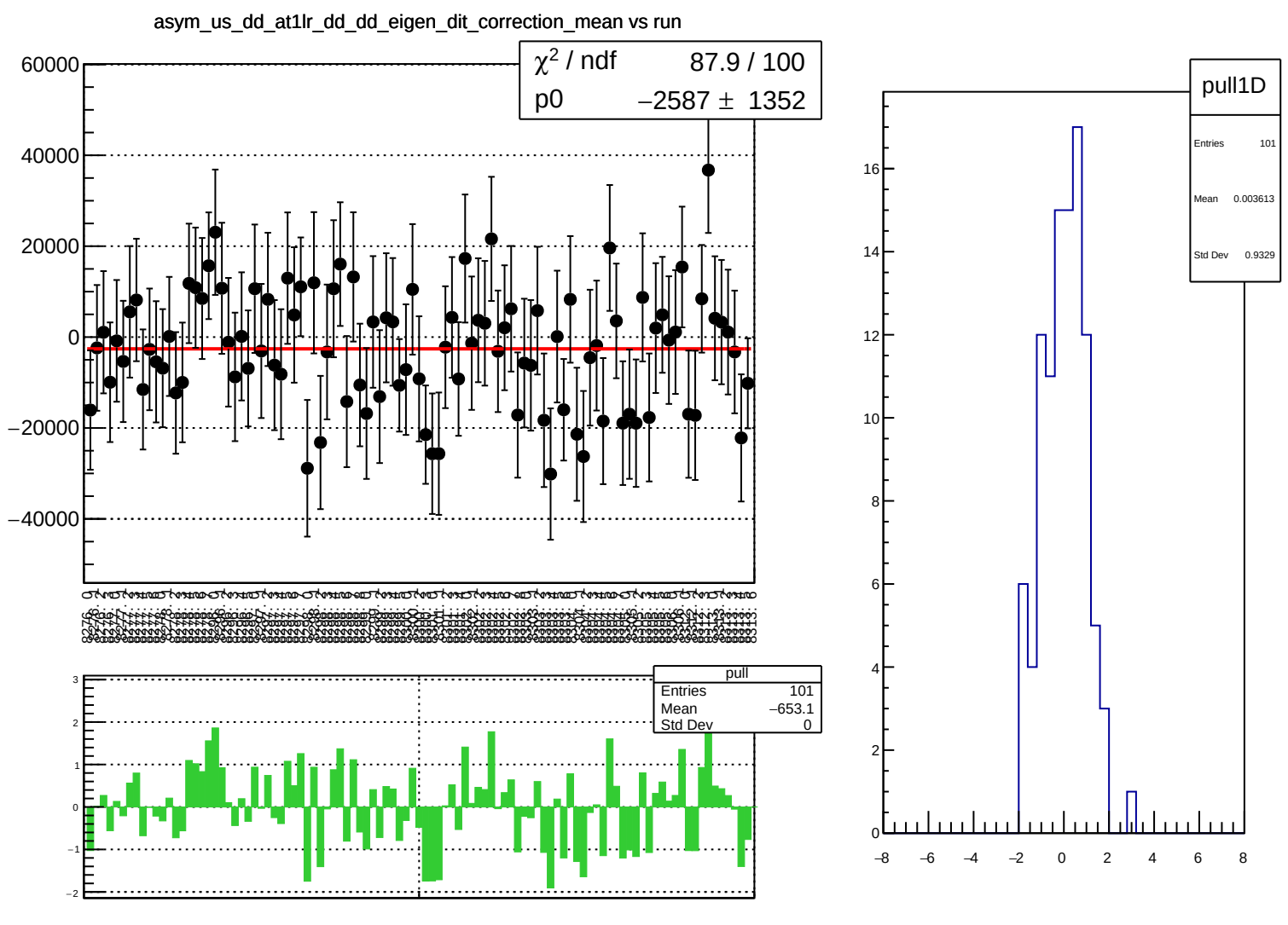

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
χ² / ndf 87.9 / 100
p0 −2587 ± 1352
60000
40000
20000
0
−20000
−40000
pull
Entries 101
Mean −653.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.003613
Std Dev 0.9329
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

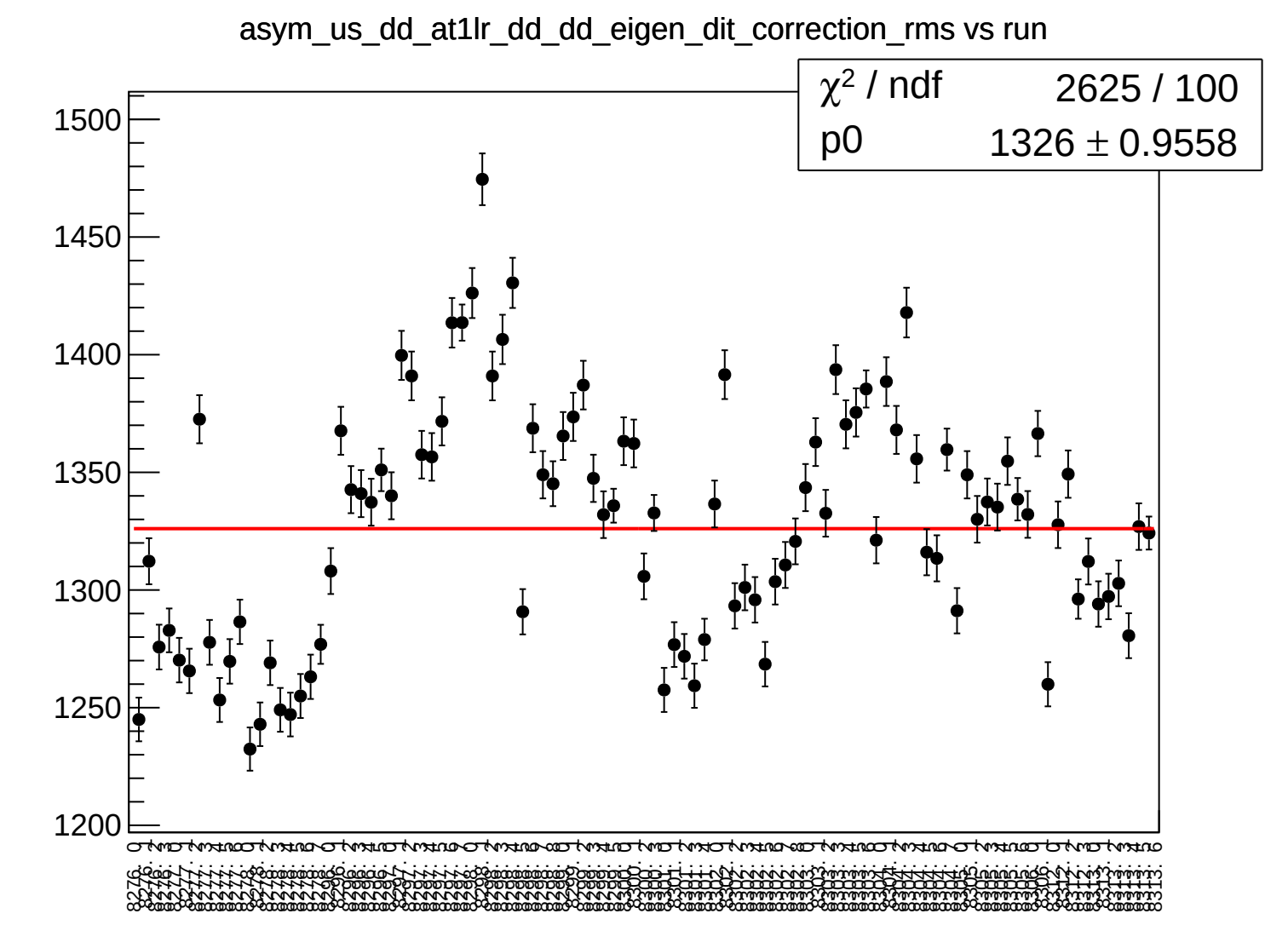

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 2625 / 100
p0 1326 ± 0.9558
1500
1450
1400
1350
1300
1250
1200

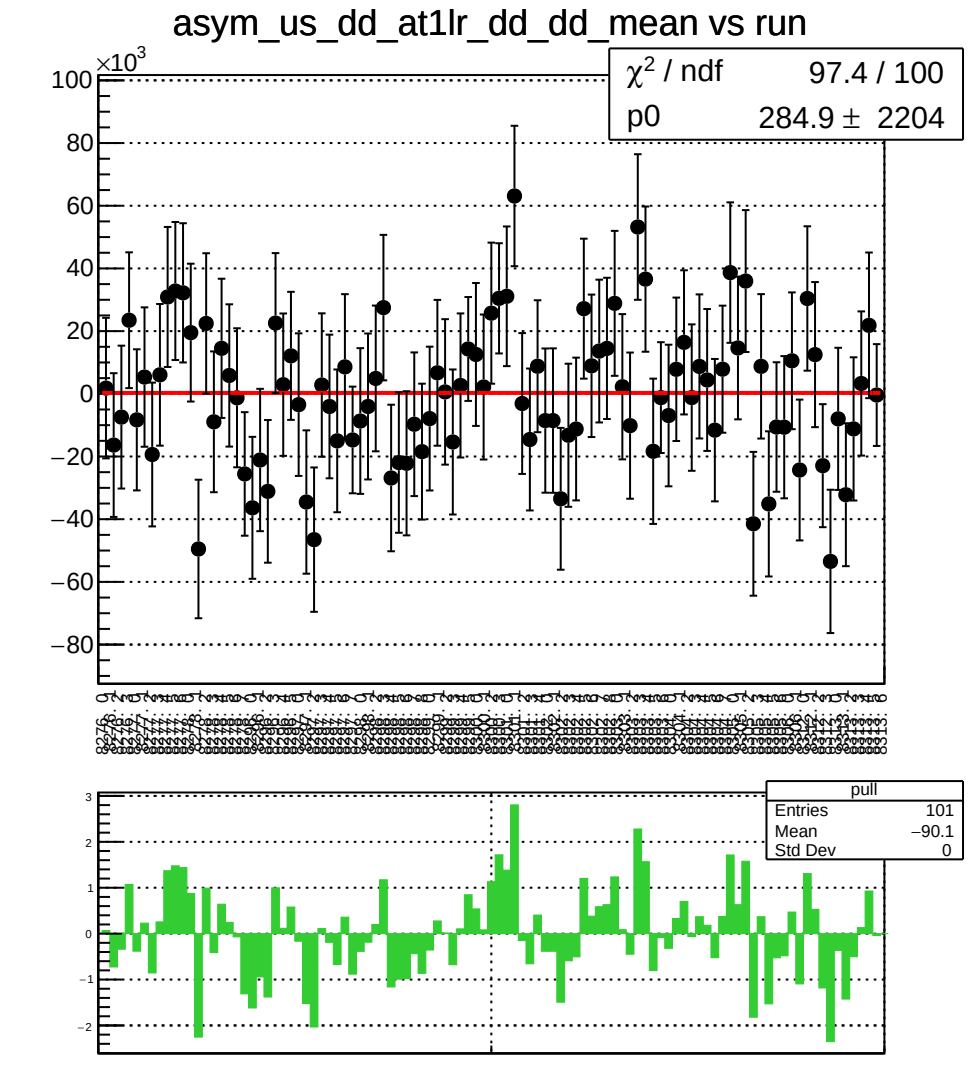

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 94.34 / 100
p0 −2468 ± 1755
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −573.5
Std Dev 0
2
1
0
−1
−2

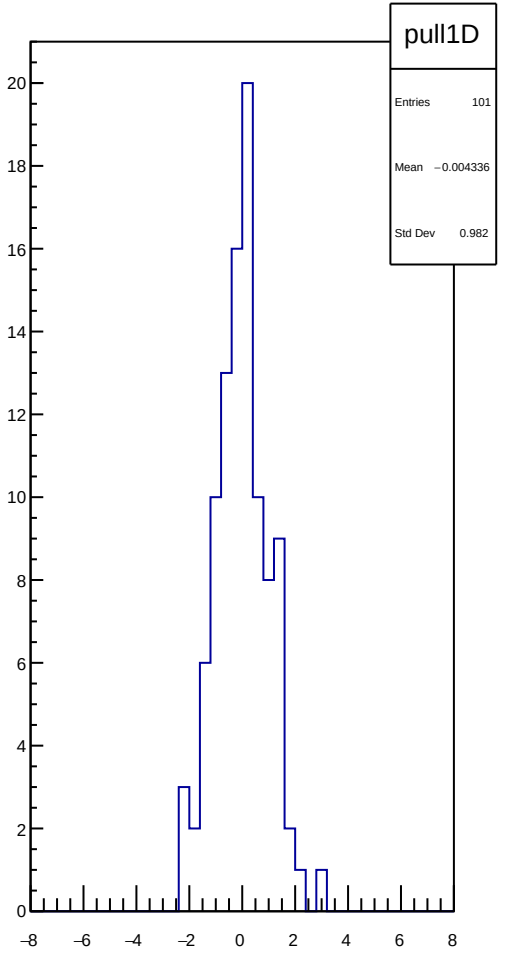

pull1D
Entries 101
Mean 0.001965
Std Dev 0.9665
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

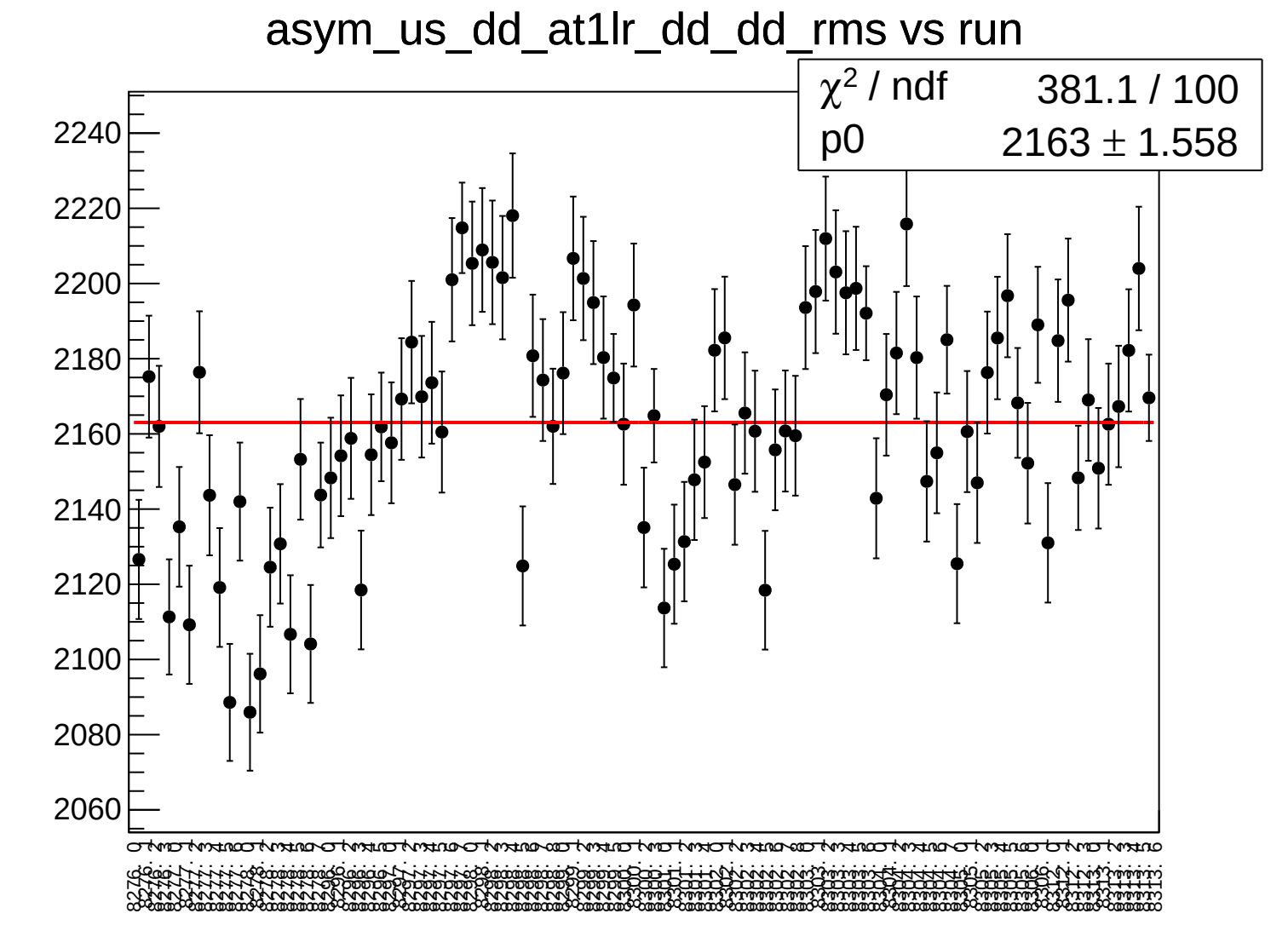

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 87.03 / 100
p0 1722 ± 1.241
1760
1750
1740
1730
1720
1710
1700
1690

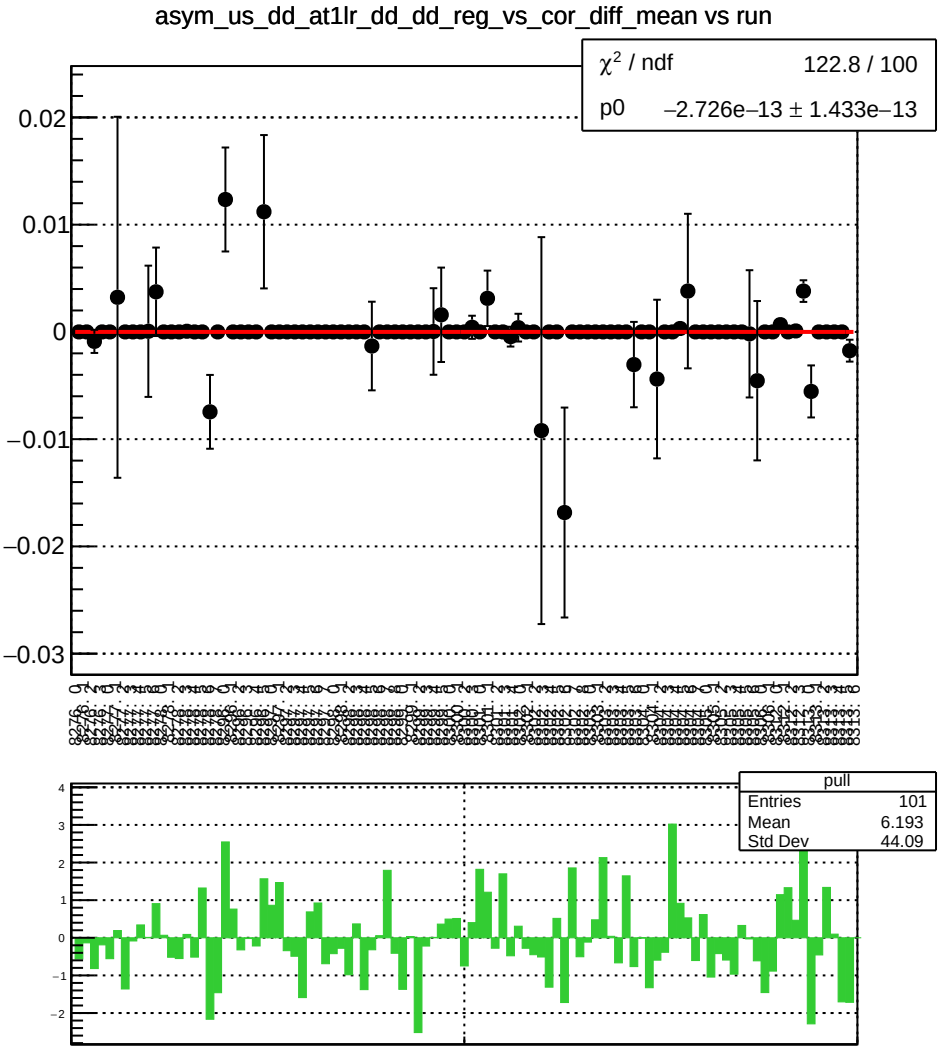

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 87.9 / 100
p0 −2587 ± 1352
60000
40000
20000
0
−20000
−40000
pull
Entries 101
Mean −653.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.003613
Std Dev 0.9329
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

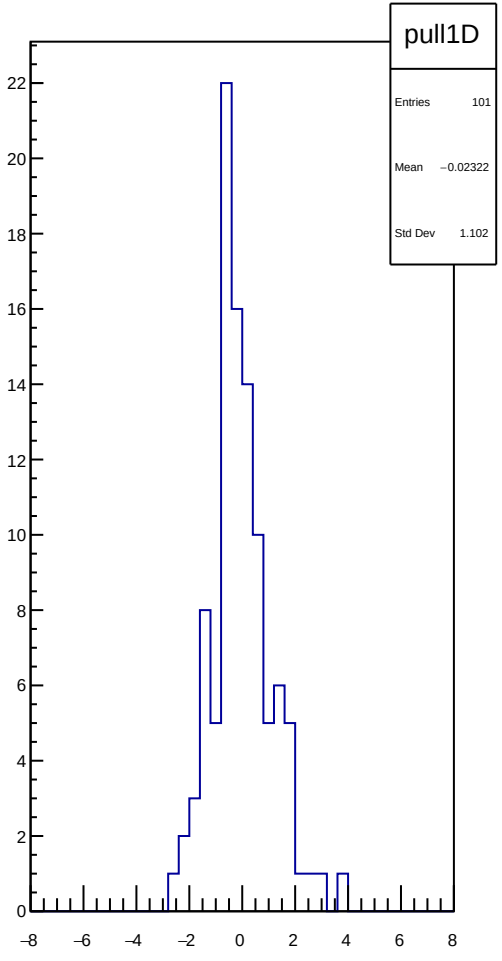

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 2625 / 100
p0 1326 ± 0.9558
1500
1450
1400
1350
1300
1250
1200

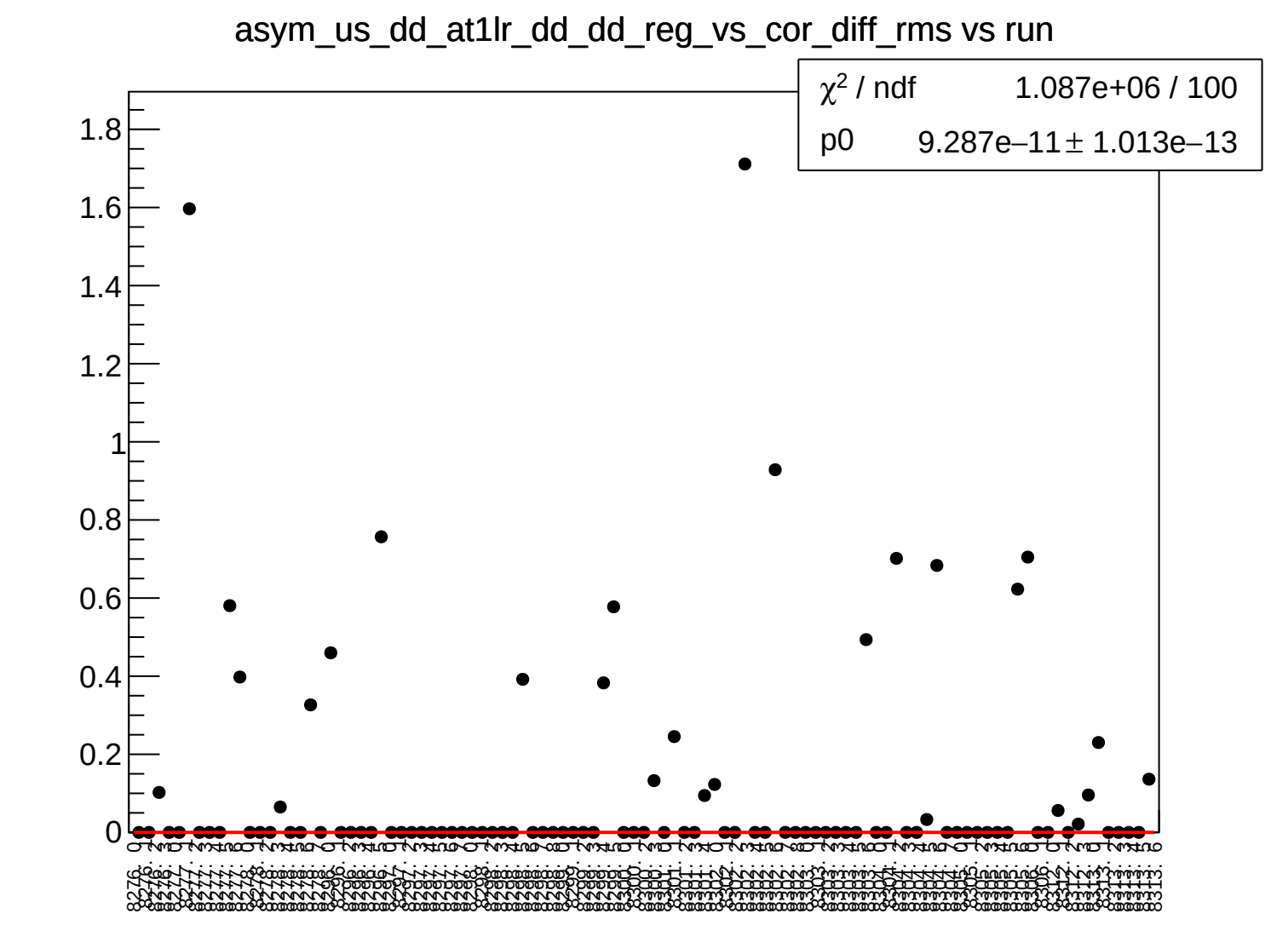

asym_us_dd_at1lr_dd_dd_mean vs run
×10^3
χ² / ndf 97.4 / 100
p0 284.9 ± 2204
pull
Entries 101
Mean −90.1
Std Dev 0

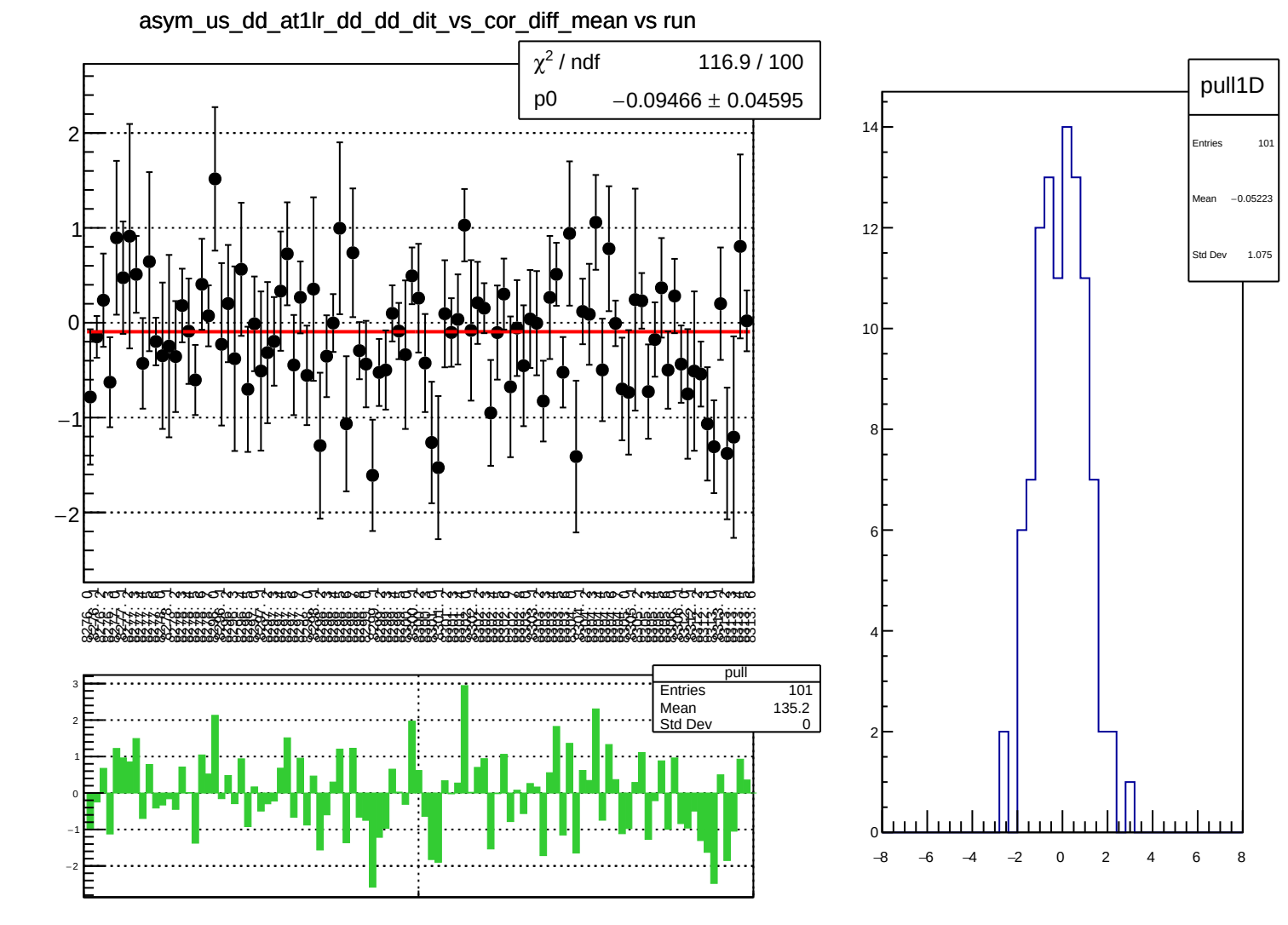

pull1D
Entries 101
Mean −0.004336
Std Dev 0.982

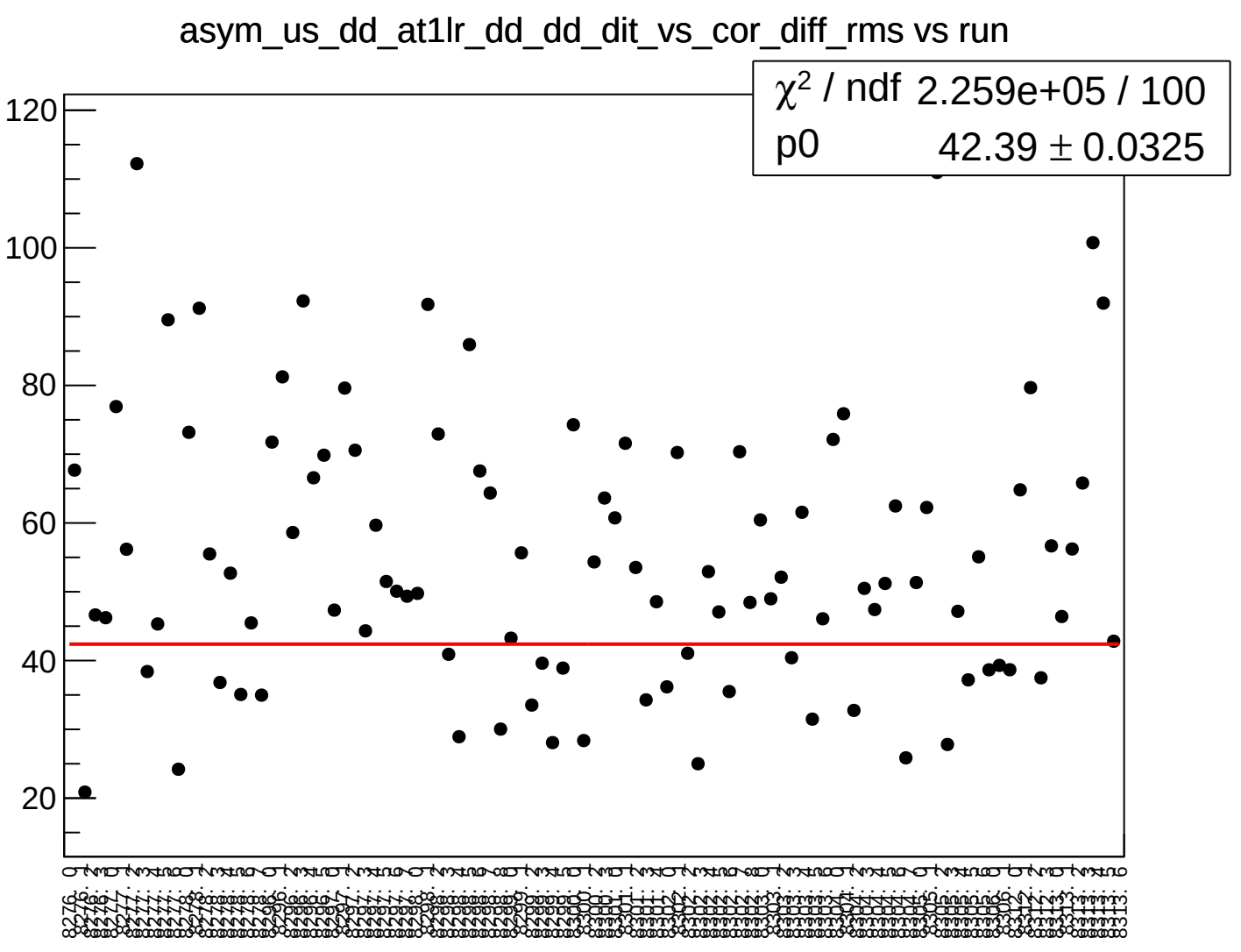

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 381.1 / 100
p0 2163 ± 1.558
2240
2220
2200
2180
2160
2140
2120
2100
2080
2060

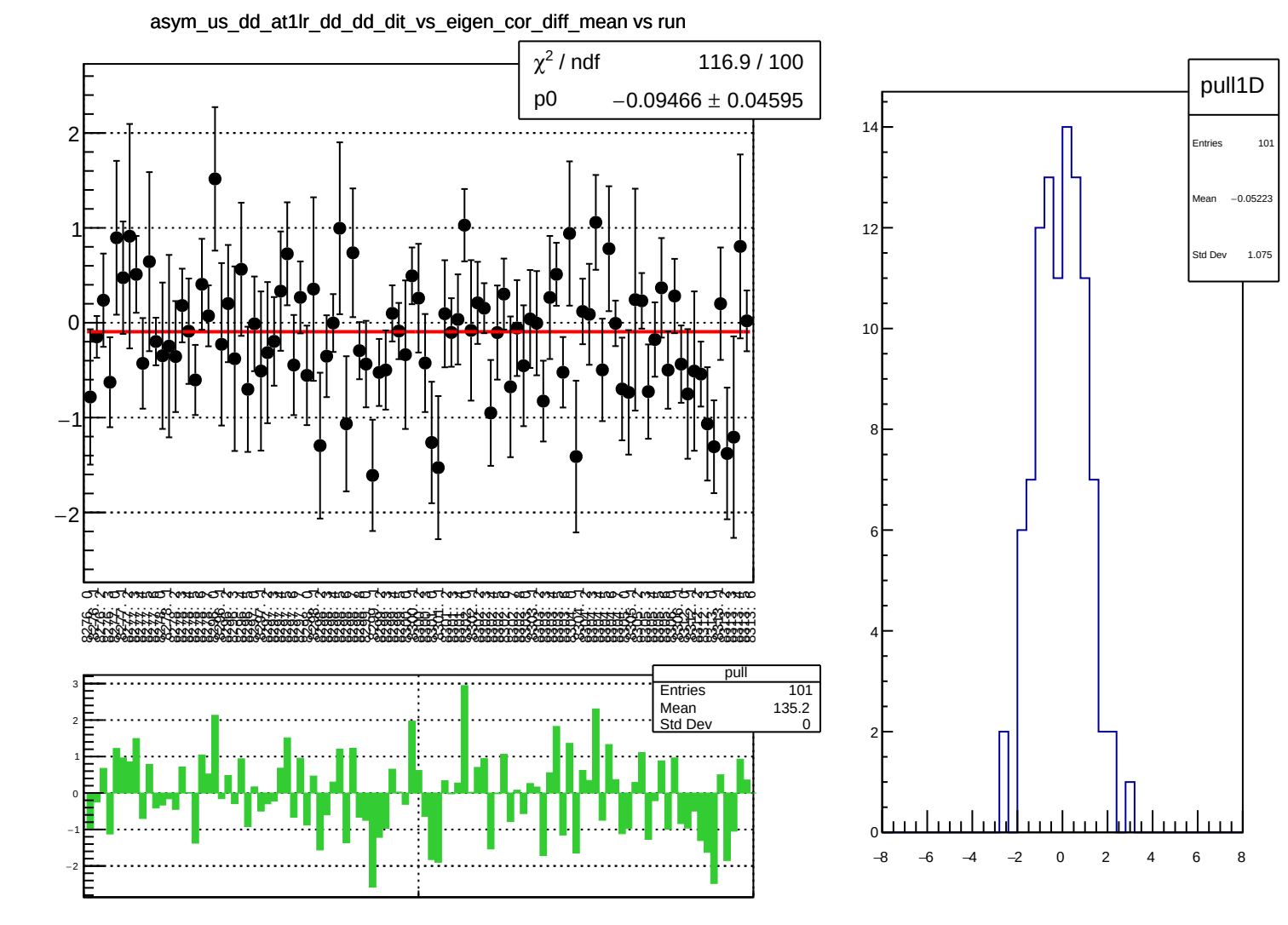

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 122.8 / 100
p0 −2.726e−13 ± 1.433e−13
pull
Entries 101
Mean 6.193
Std Dev 44.09

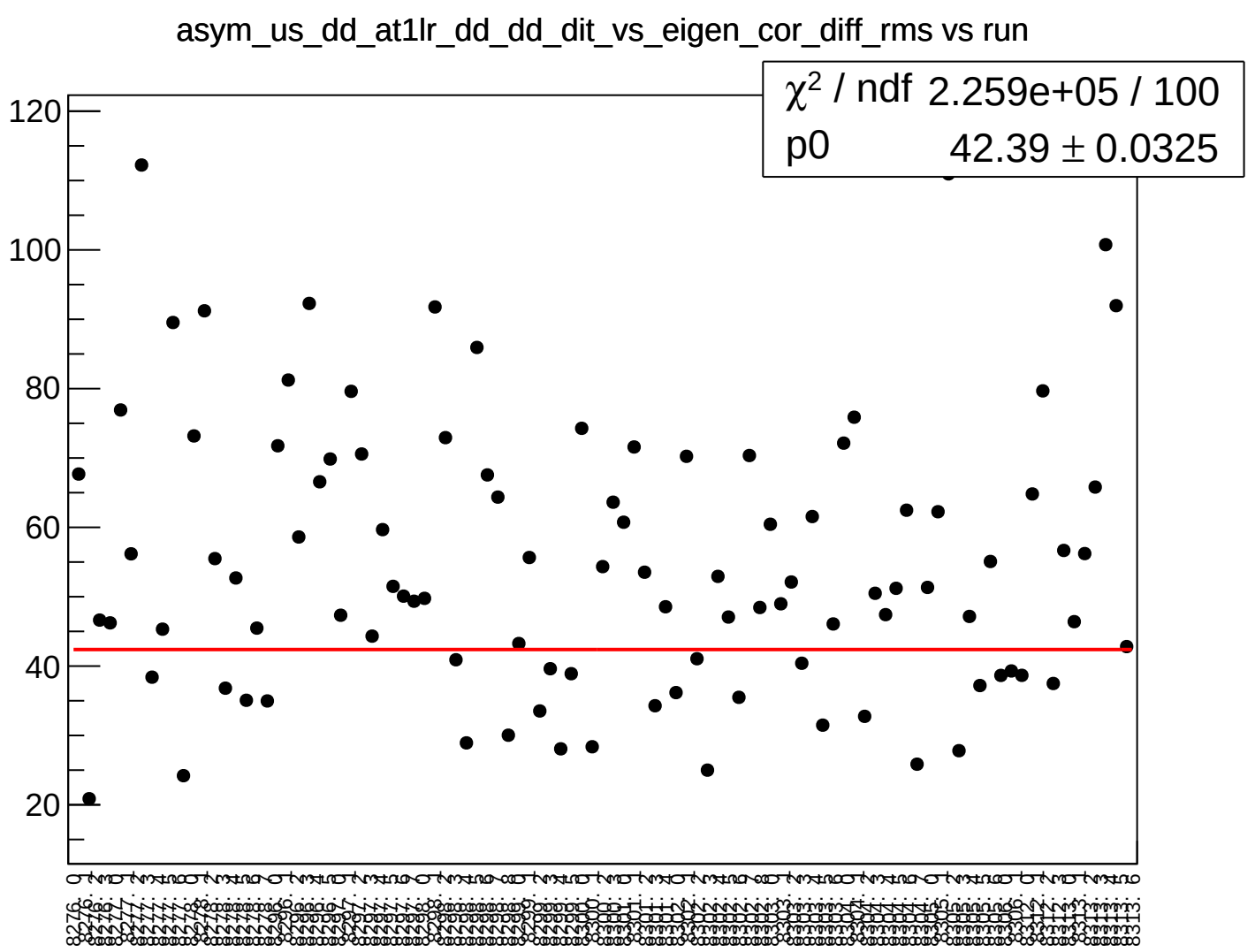

pull1D
Entries 101
Mean −0.02322
Std Dev 1.102

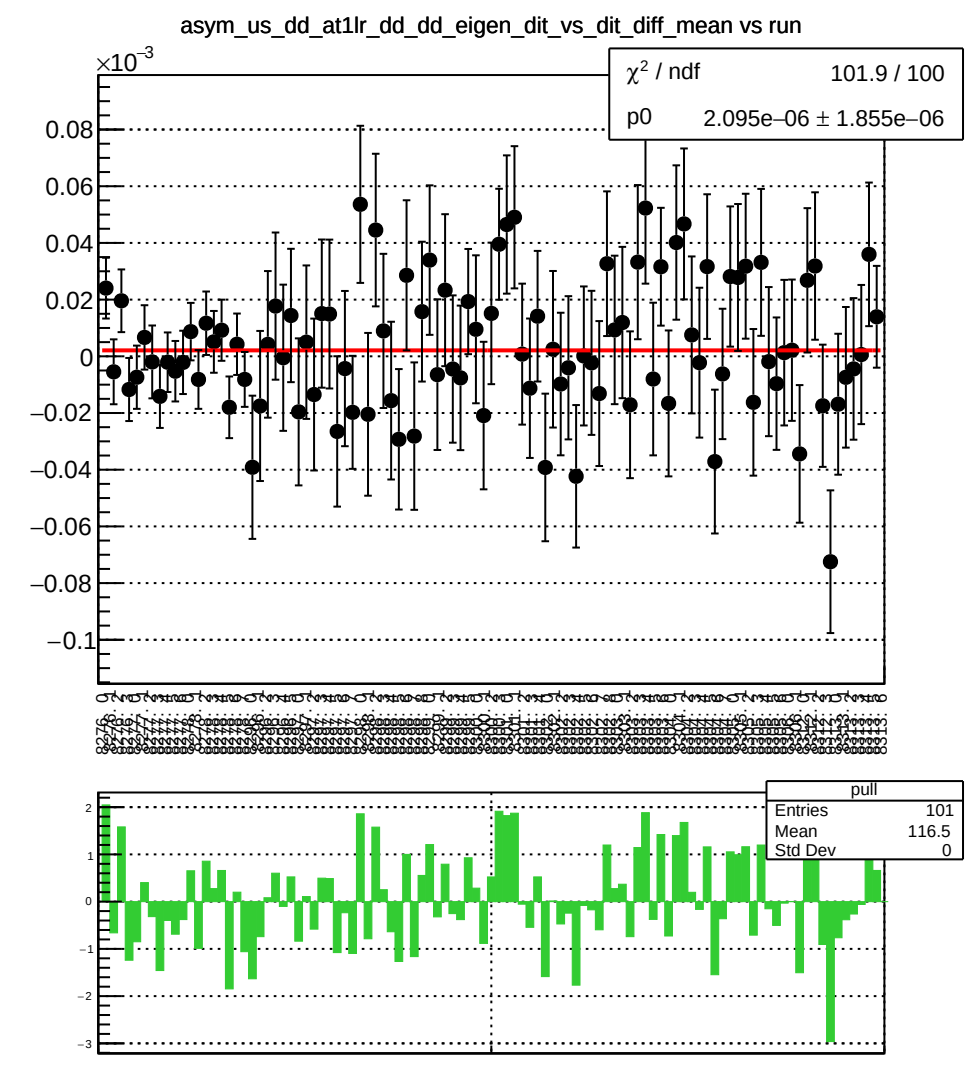

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.087e+06 / 100
p0 9.287e−11 ± 1.013e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

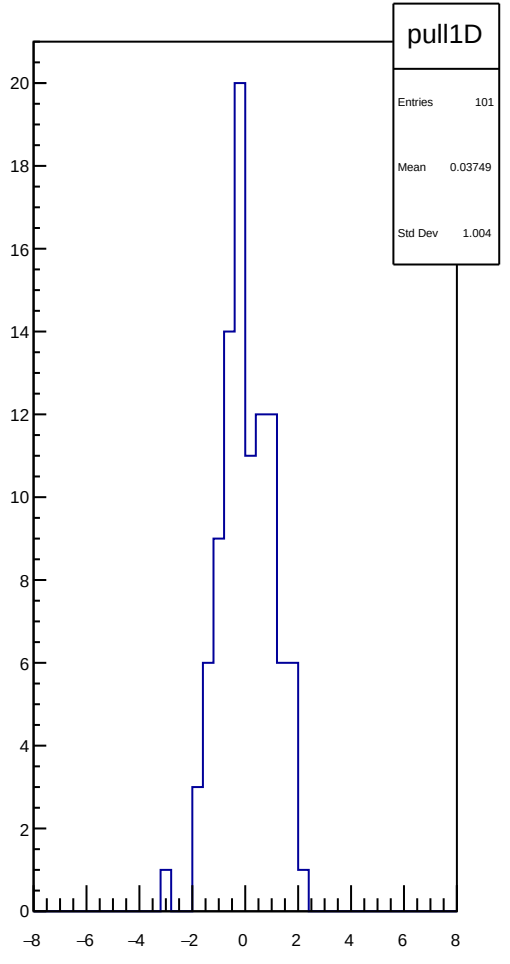

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 116.9 / 100
p0 −0.09466 ± 0.04595
pull
Entries 101
Mean 135.2
Std Dev 0
pull1D
Entries 101
Mean −0.05223
Std Dev 1.075

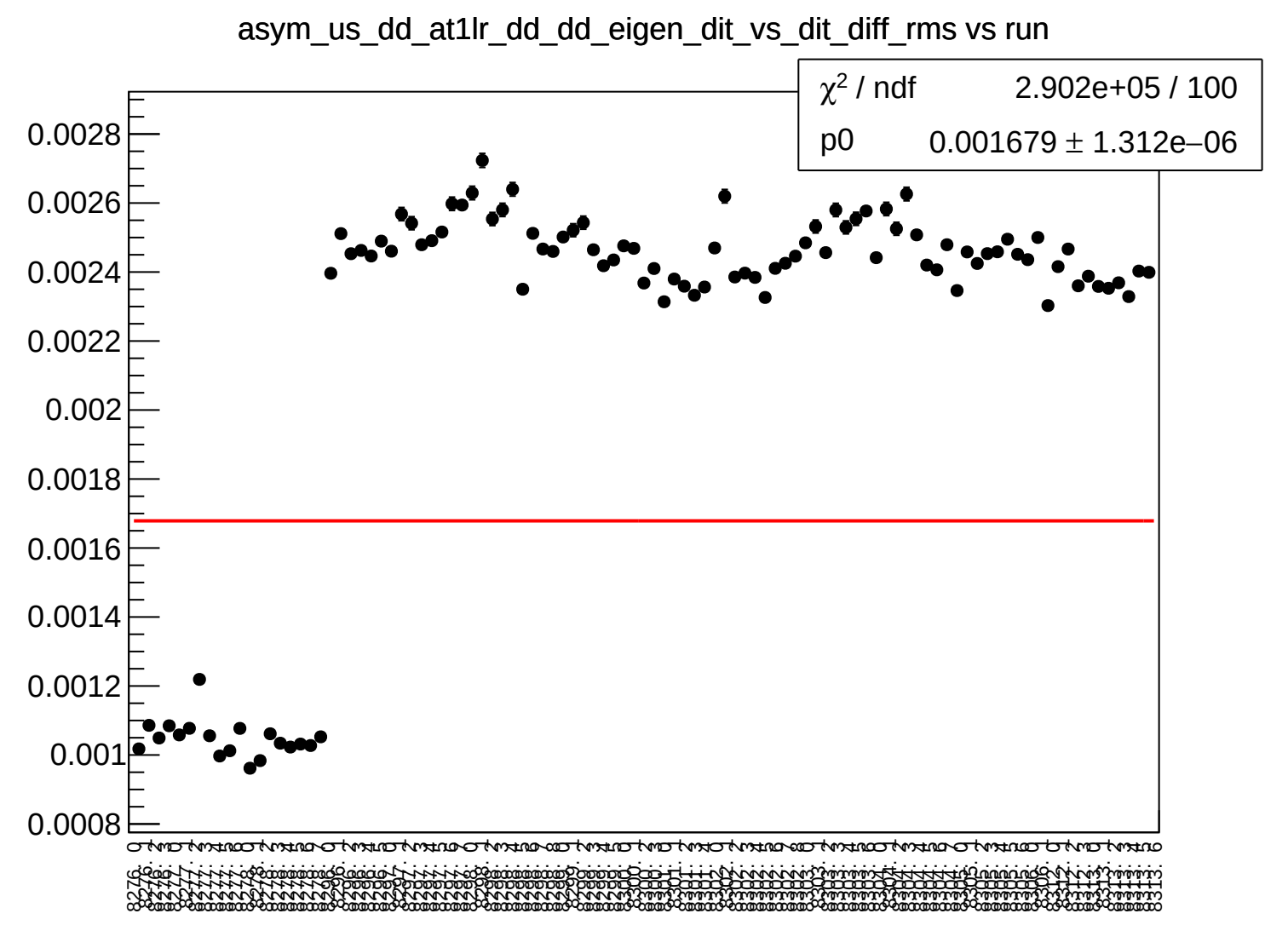

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.259e+05 / 100
p0 42.39 ± 0.0325
120
100
80
60
40
20

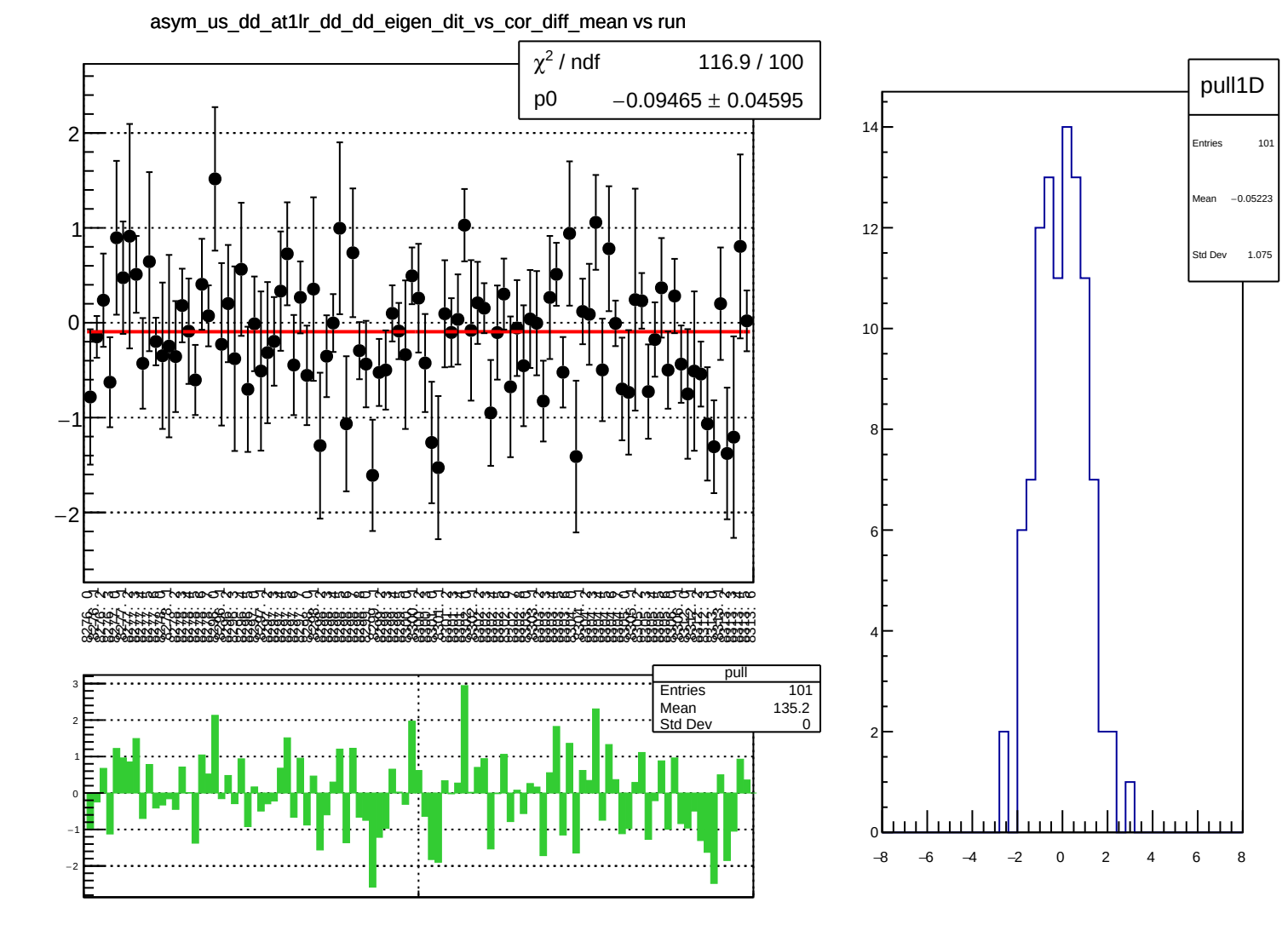

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 116.9 / 100
p0 −0.09466 ± 0.04595
pull
Entries 101
Mean 135.2
Std Dev 0
pull1D
Entries 101
Mean −0.05223
Std Dev 1.075

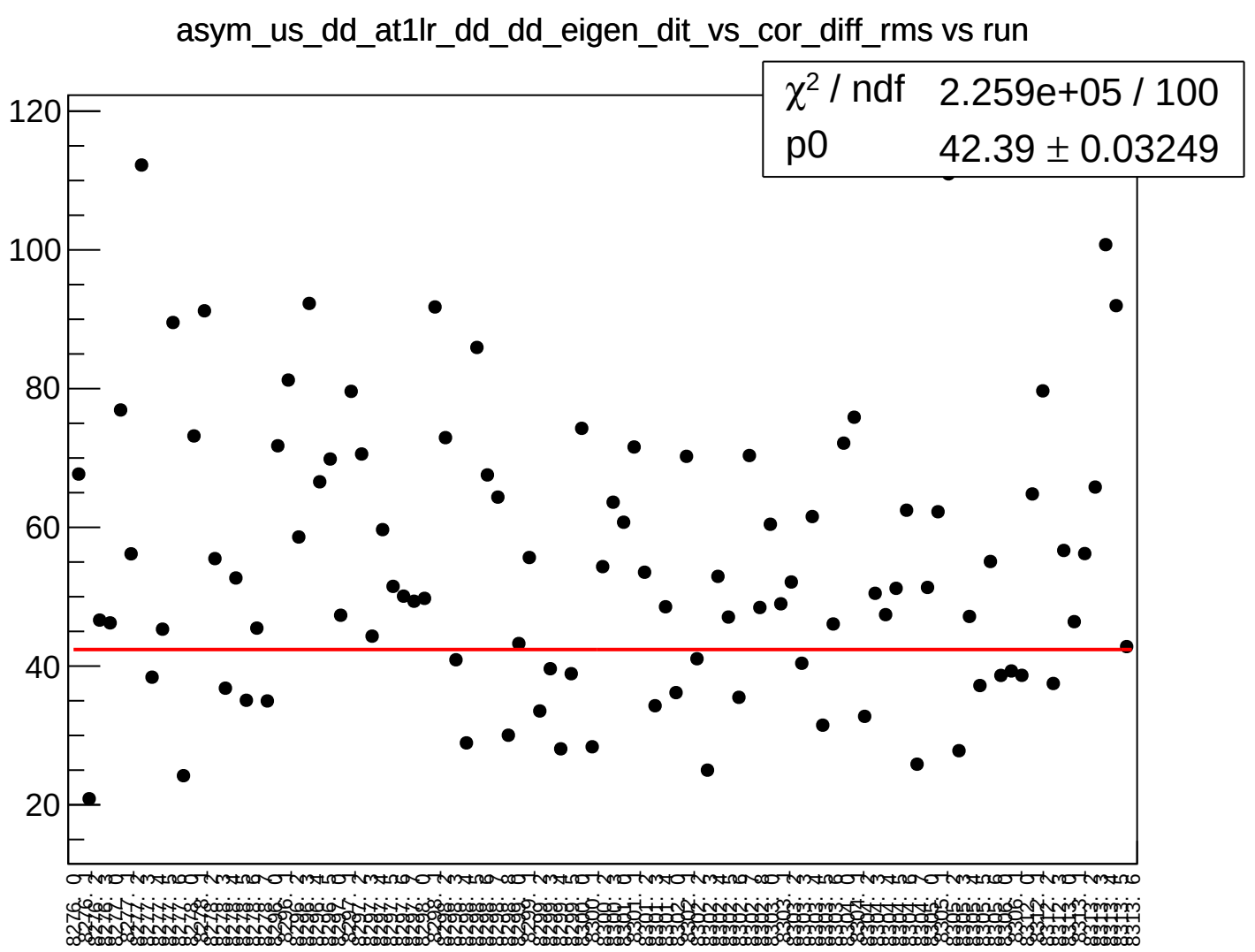

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.259e+05 / 100
p0 42.39 ± 0.0325
120
100
80
60
40
20

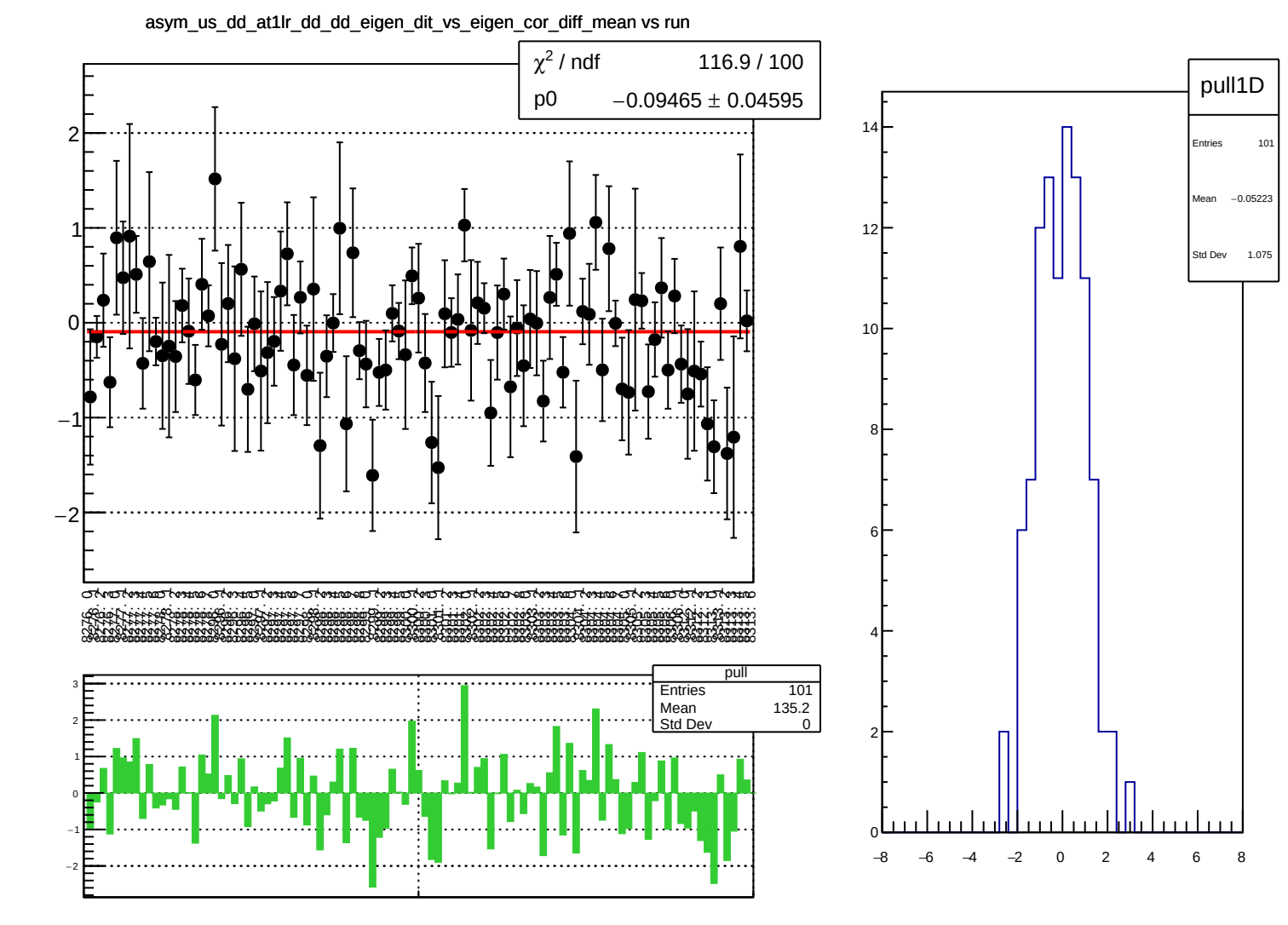

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 101.9 / 100
p0 2.095e−06 ± 1.855e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 101
Mean 116.5
Std Dev 0
2
1
0
−1
−2
−3

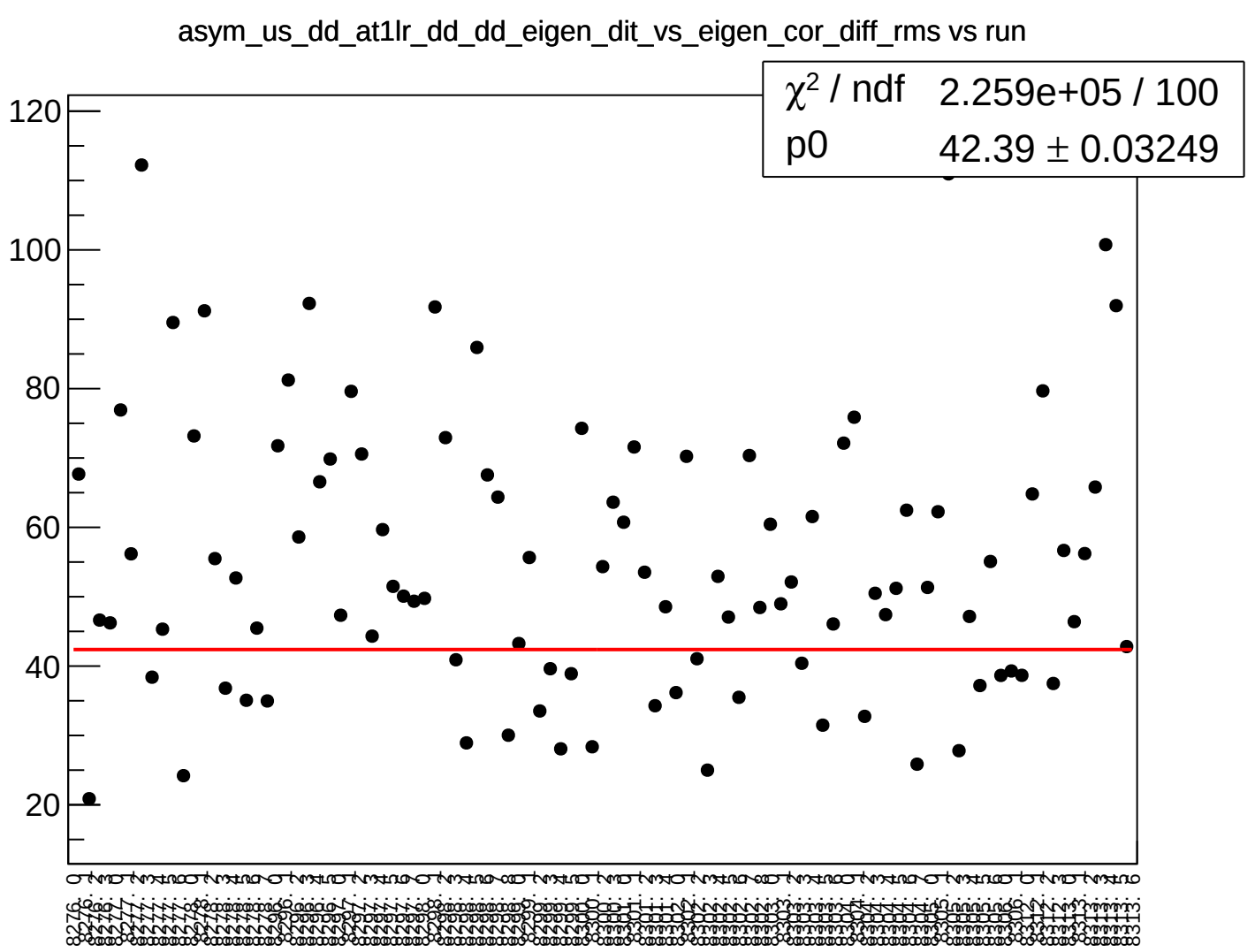

pull1D
Entries 101
Mean 0.03749
Std Dev 1.004
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

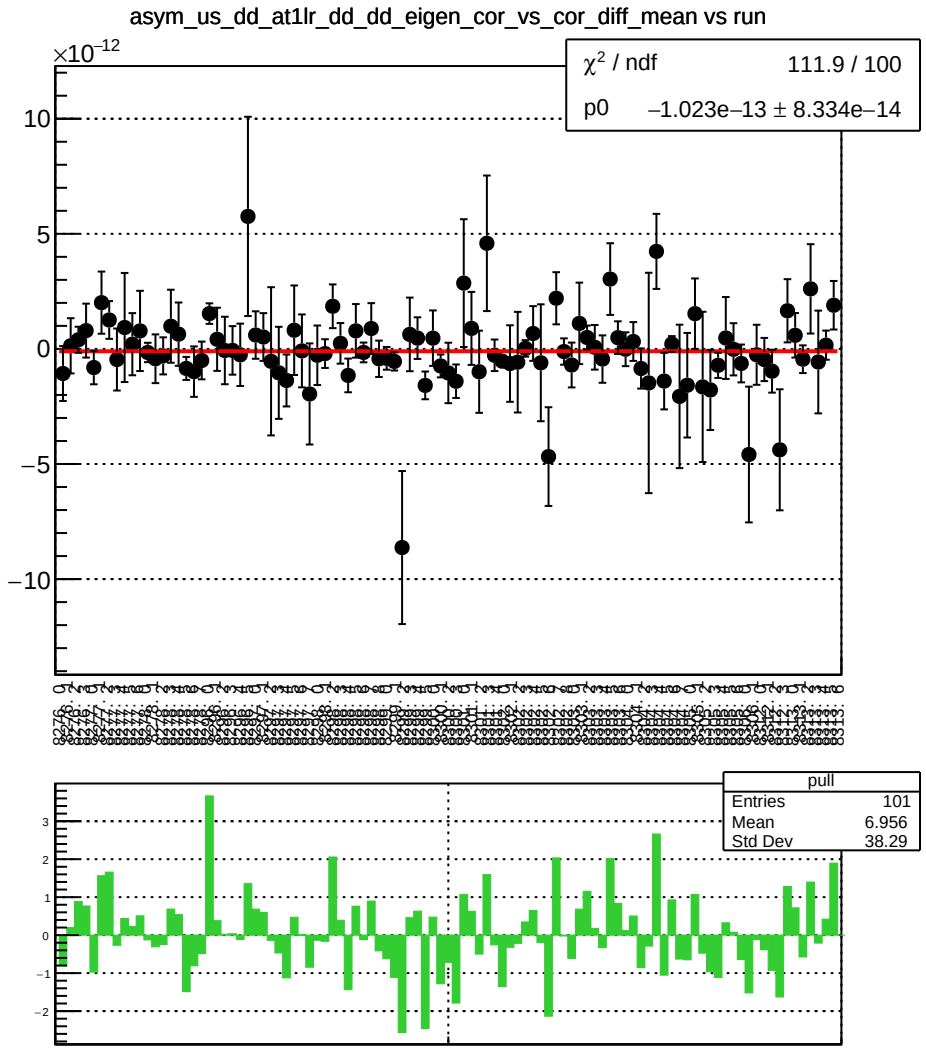

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.902e+05 / 100
p0 0.001679 ± 1.312e−06
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008

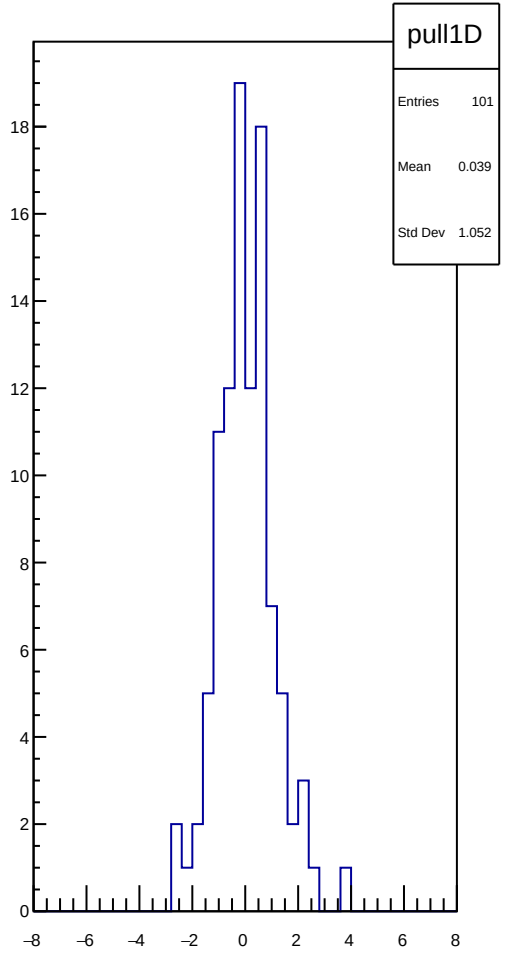

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 116.9 / 100
p0 −0.09465 ± 0.04595
pull
Entries 101
Mean 135.2
Std Dev 0
pull1D
Entries 101
Mean −0.05223
Std Dev 1.075

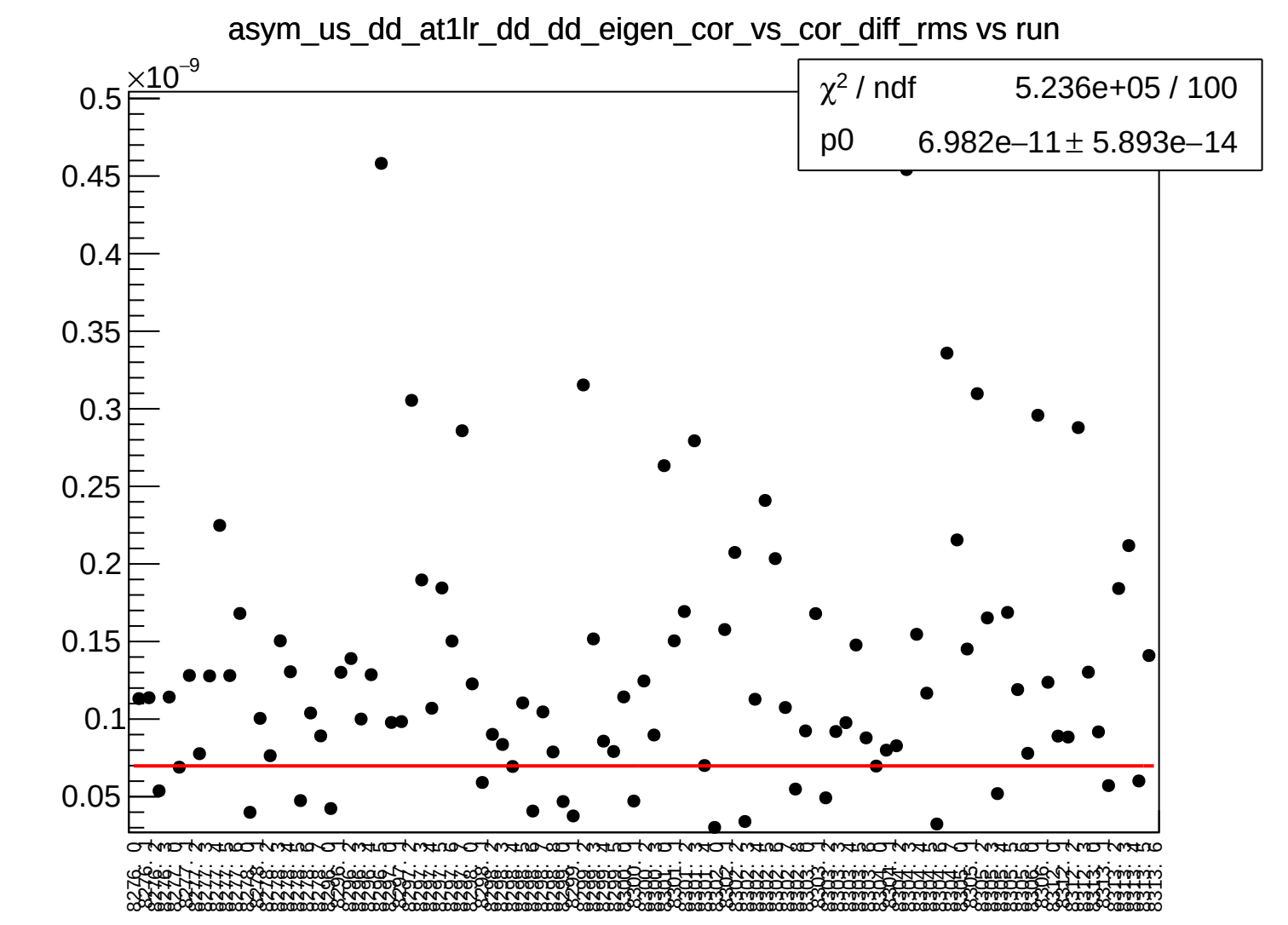

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.259e+05 / 100
p0 42.39 ± 0.03249
120
100
80
60
40
20

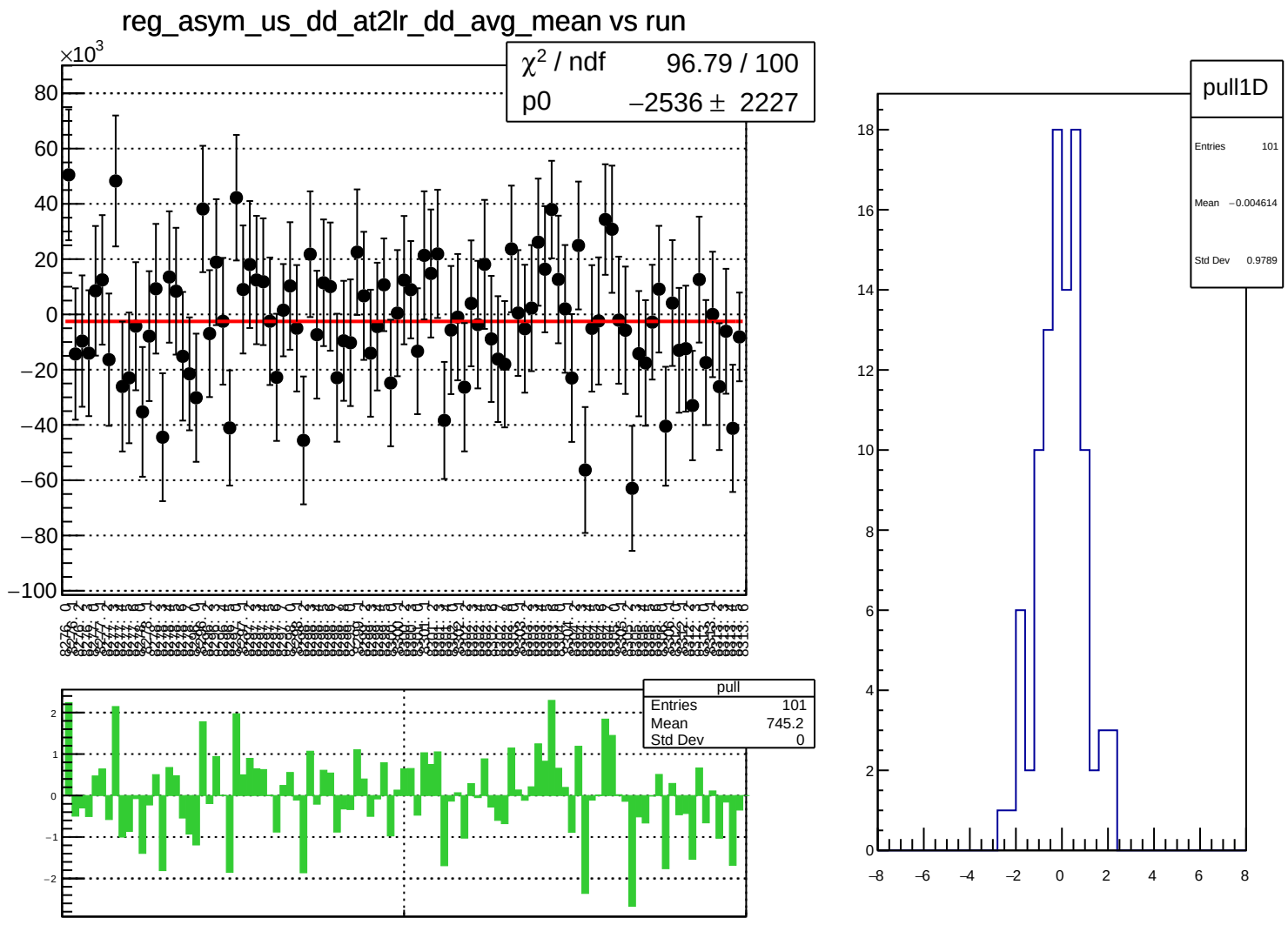

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ^2 / ndf 116.9 / 100
p0 −0.09465 ± 0.04595
pull
Entries 101
Mean 135.2
Std Dev 0
pull1D
Entries 101
Mean −0.05223
Std Dev 1.075

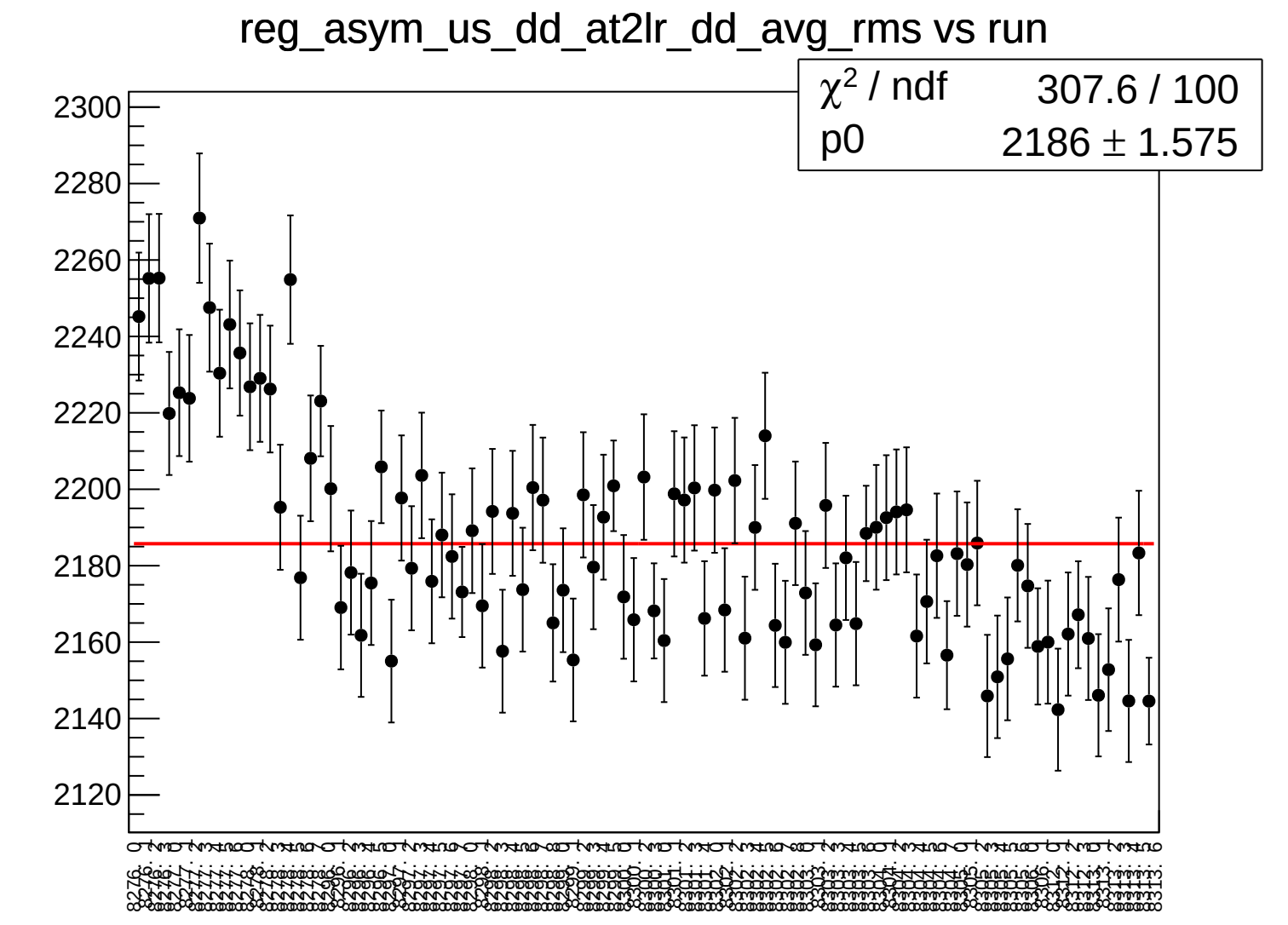

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.259e+05 / 100
p0 42.39 ± 0.03249
120
100
80
60
40
20

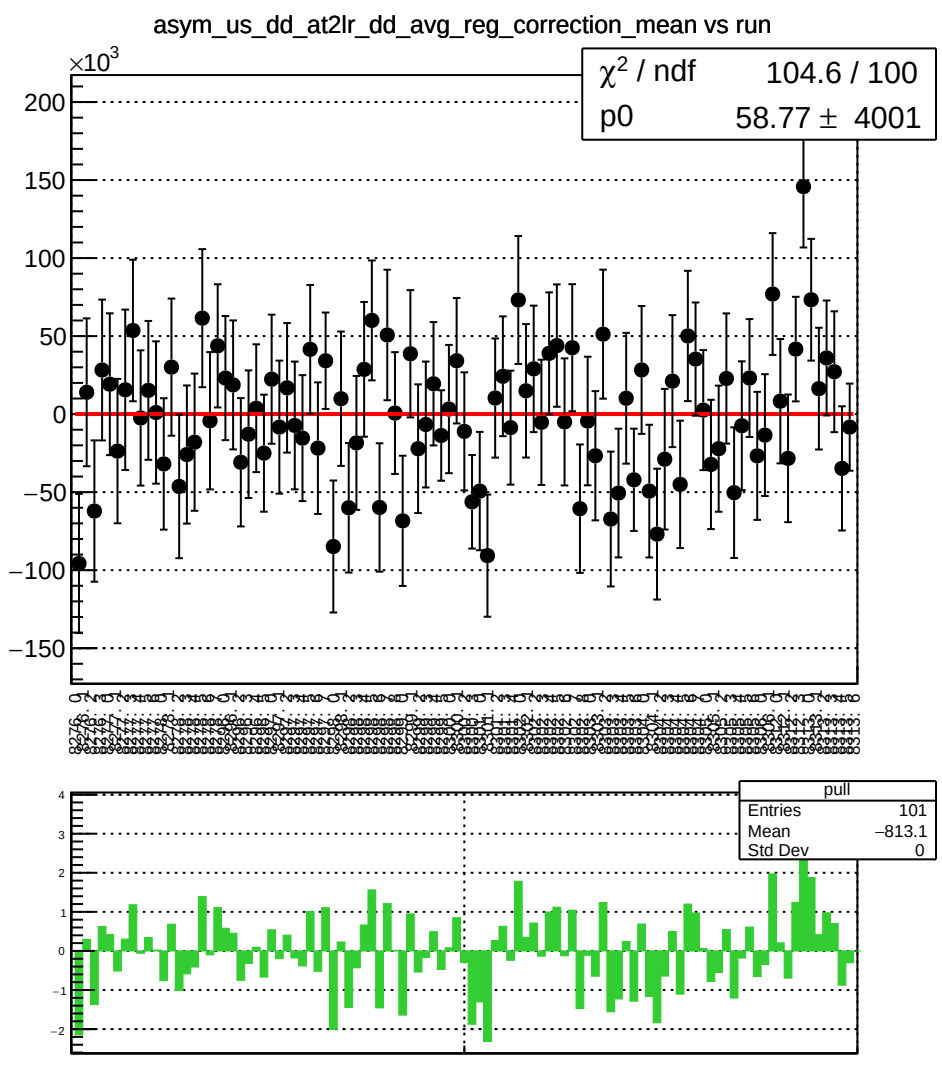

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10^-12
χ² / ndf 111.9 / 100
p0 −1.023e−13 ± 8.334e−14
pull
Entries 101
Mean 6.956
Std Dev 38.29

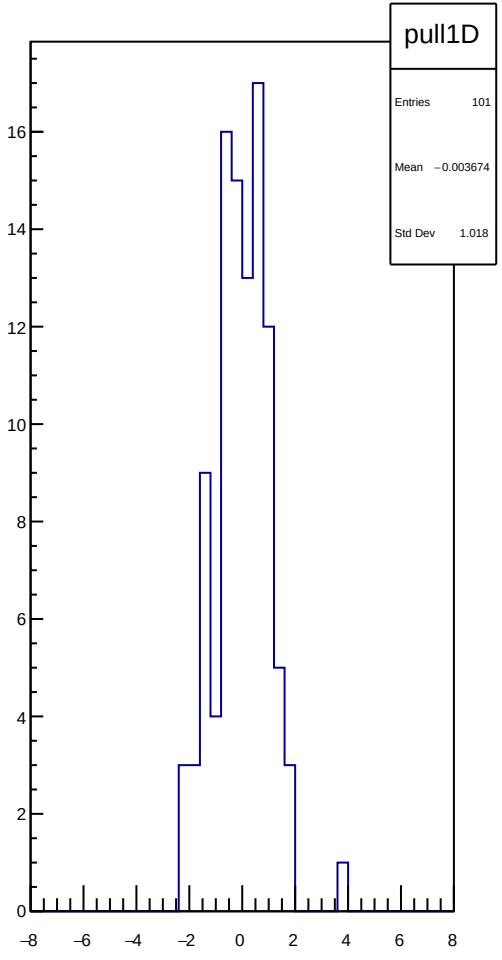

pull1D
Entries 101
Mean 0.039
Std Dev 1.052

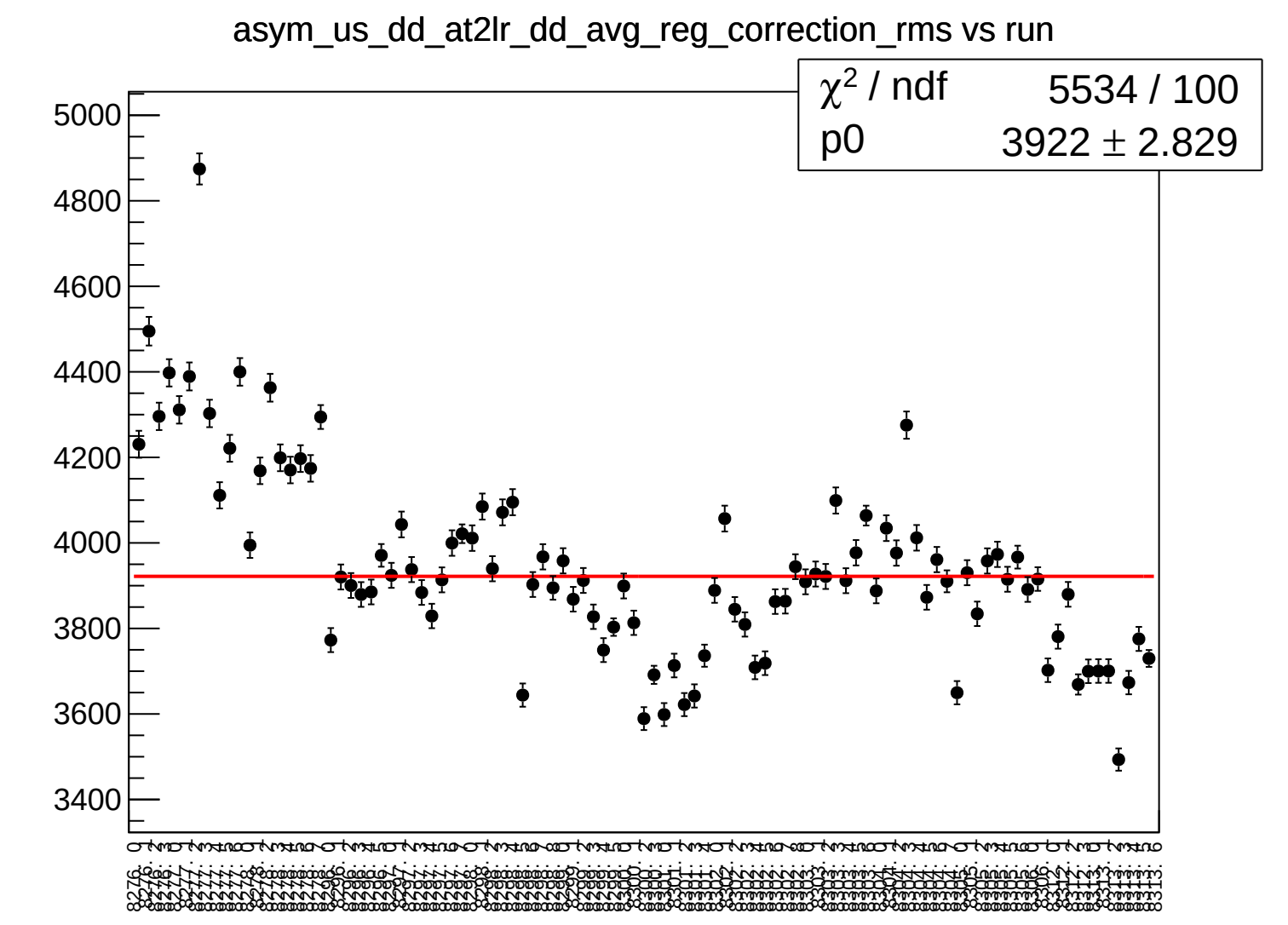

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.236e+05 / 100
p0 6.982e−11 ± 5.893e−14
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

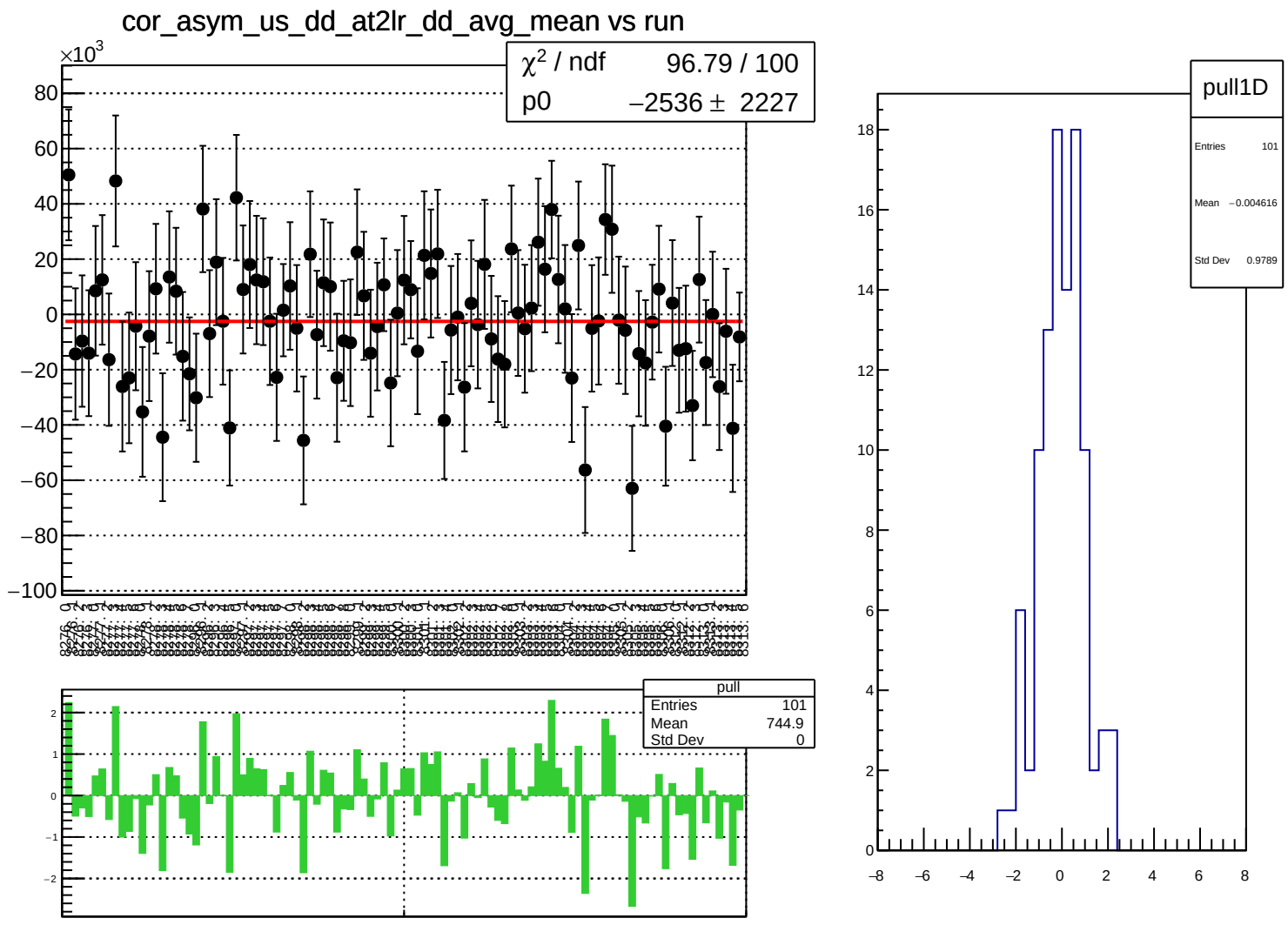

reg_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 96.79 / 100
p0 −2536 ± 2227
pull
Entries 101
Mean 745.2
Std Dev 0
pull1D
Entries 101
Mean −0.004614
Std Dev 0.9789

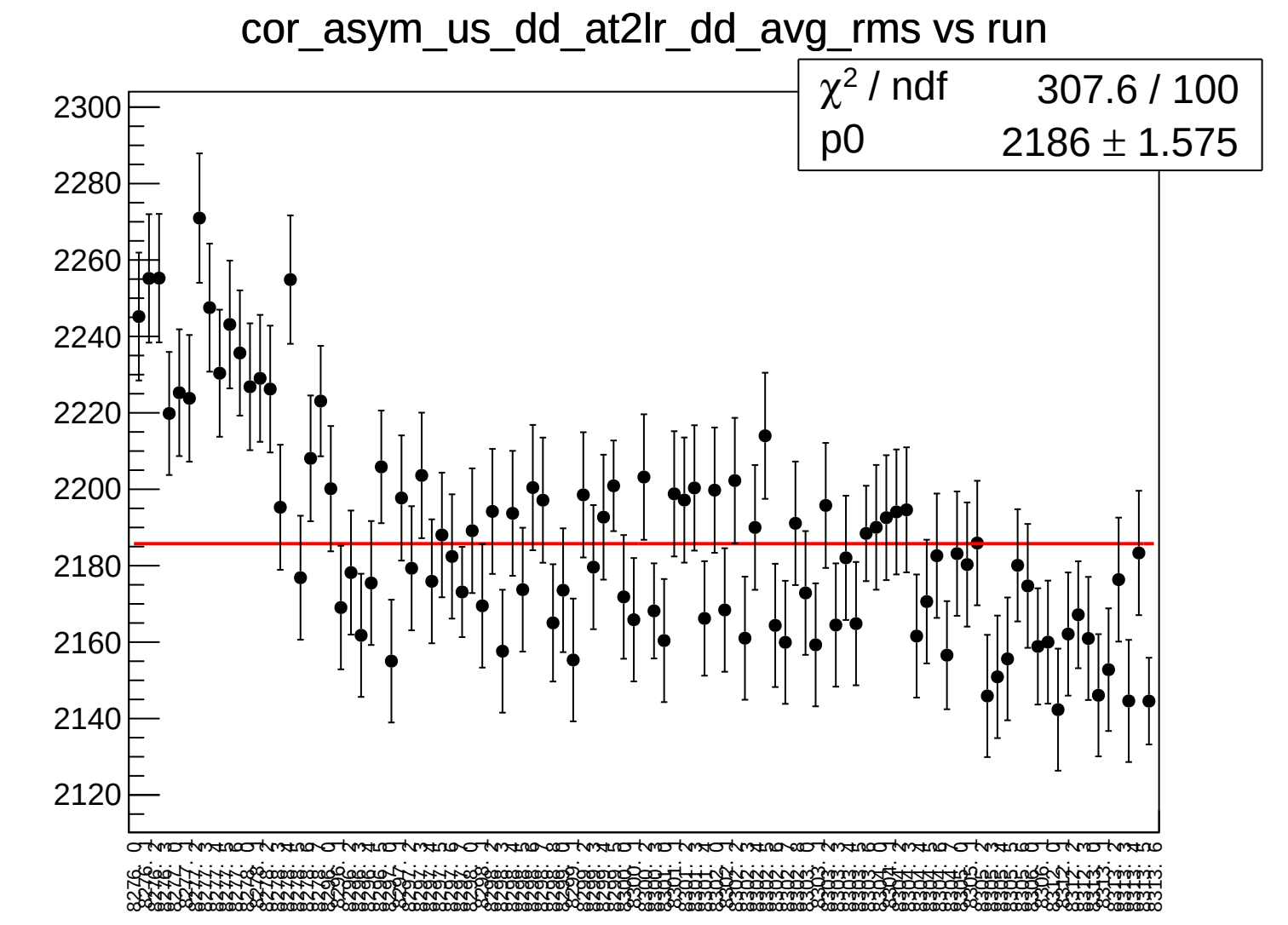

reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 307.6 / 100
p0 2186 ± 1.575
2300
2280
2260
2240
2220
2200
2180
2160
2140
2120

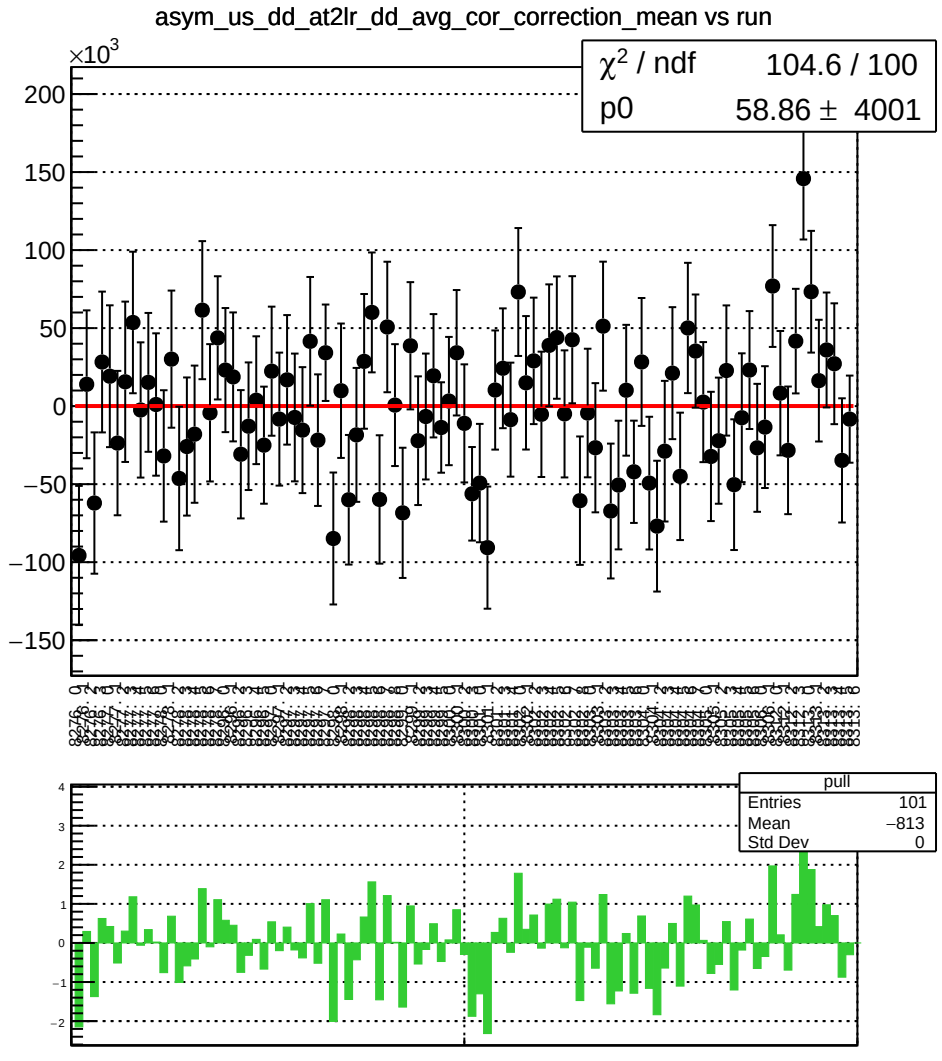

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
χ² / ndf 104.6 / 100
p0 58.77 ± 4001
×10³
pull
Entries 101
Mean −813.1
Std Dev 0

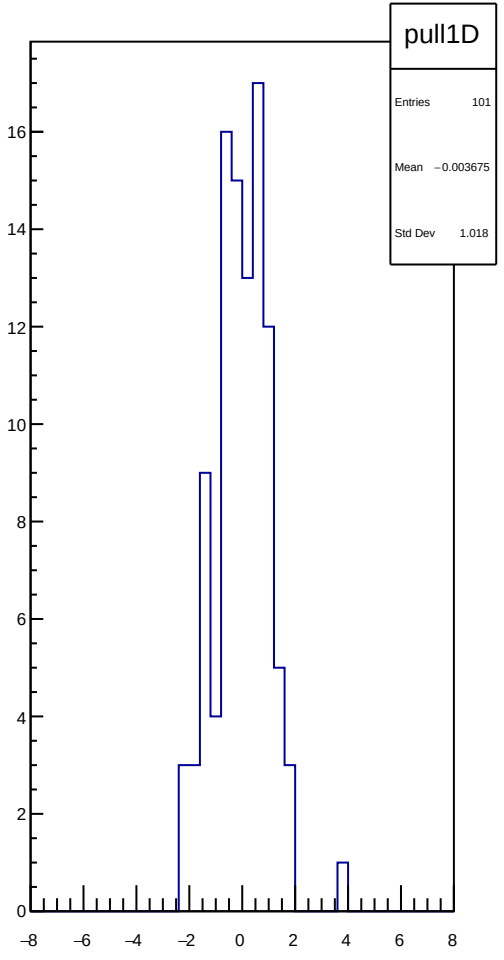

pull1D
Entries 101
Mean −0.003674
Std Dev 1.018

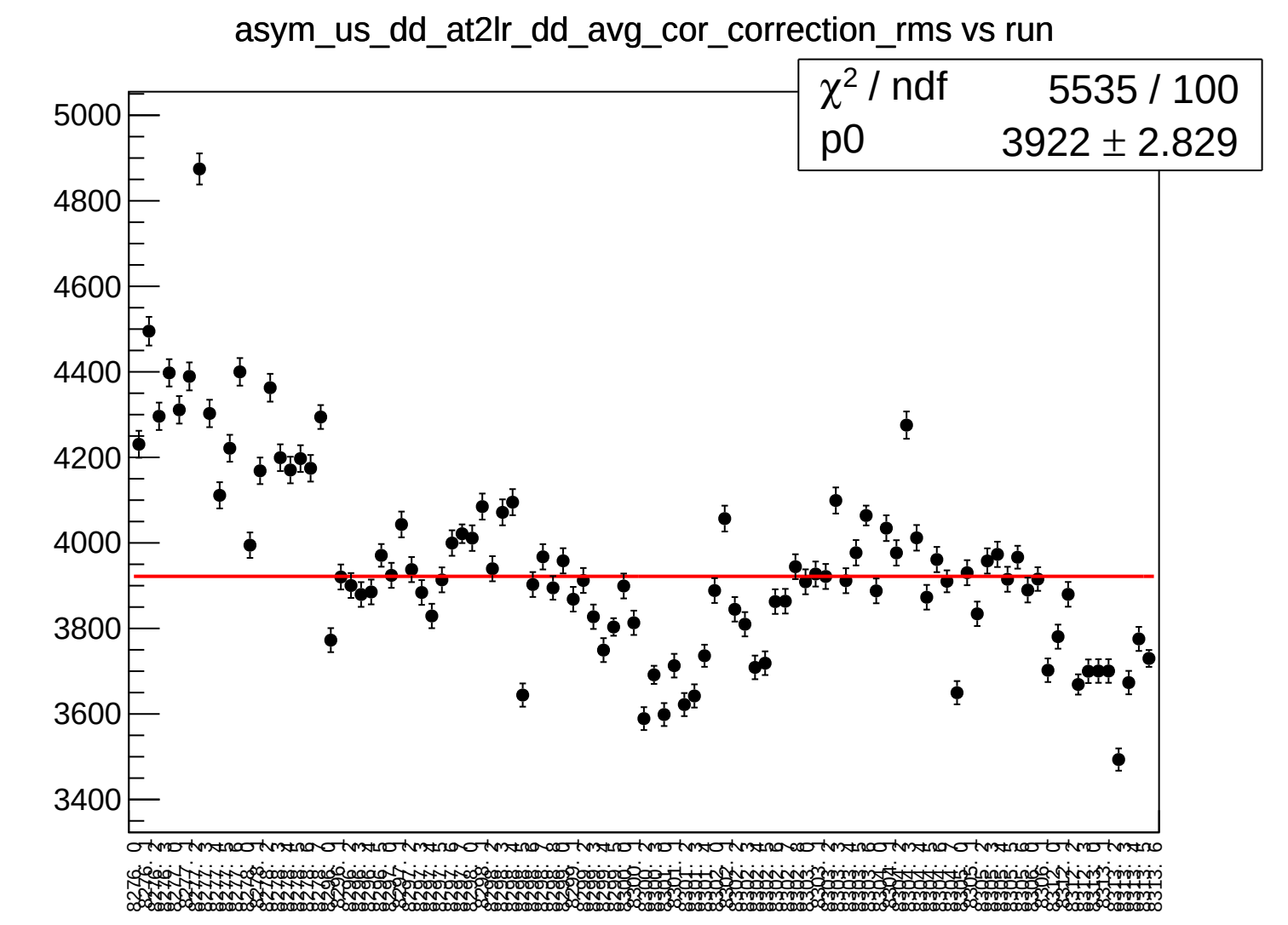

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ^2 / ndf 5534 / 100
p0 3922 ± 2.829
5000
4800
4600
4400
4200
4000
3800
3600
3400

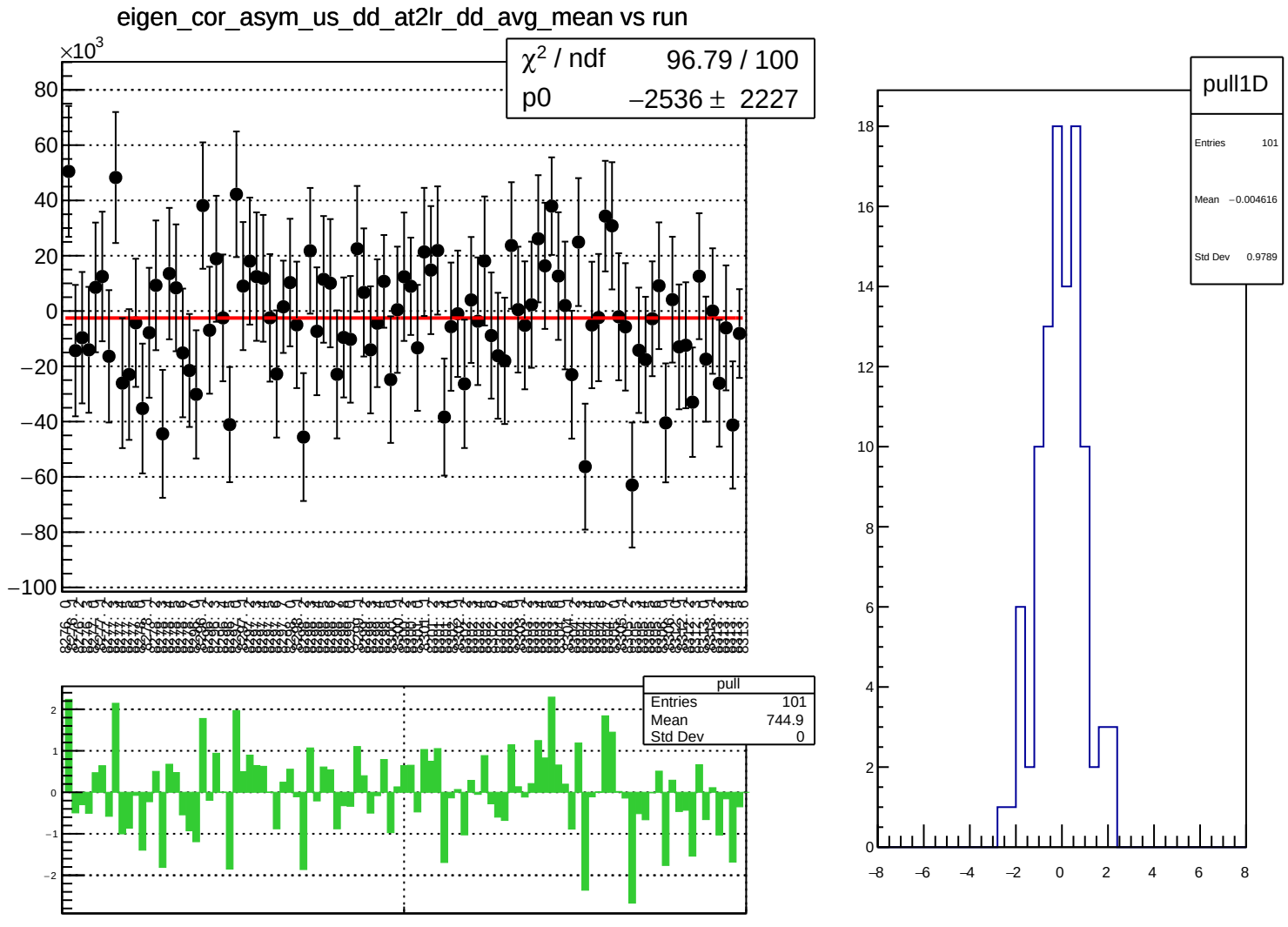

cor_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 96.79 / 100
p0 −2536 ± 2227
pull
Entries 101
Mean 744.9
Std Dev 0
pull1D
Entries 101
Mean −0.004616
Std Dev 0.9789

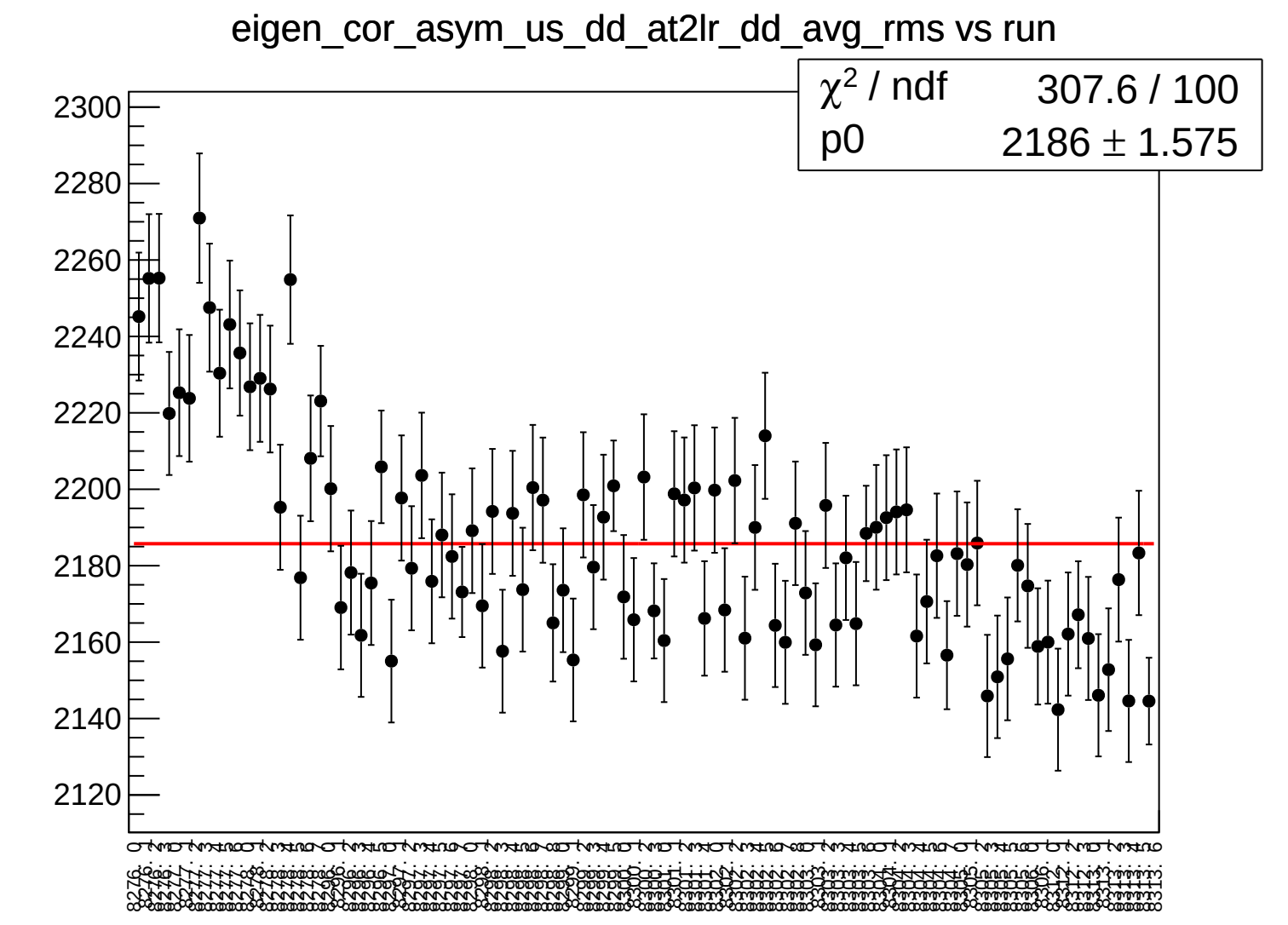

cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 307.6 / 100
p0 2186 ± 1.575
2300
2280
2260
2240
2220
2200
2180
2160
2140
2120

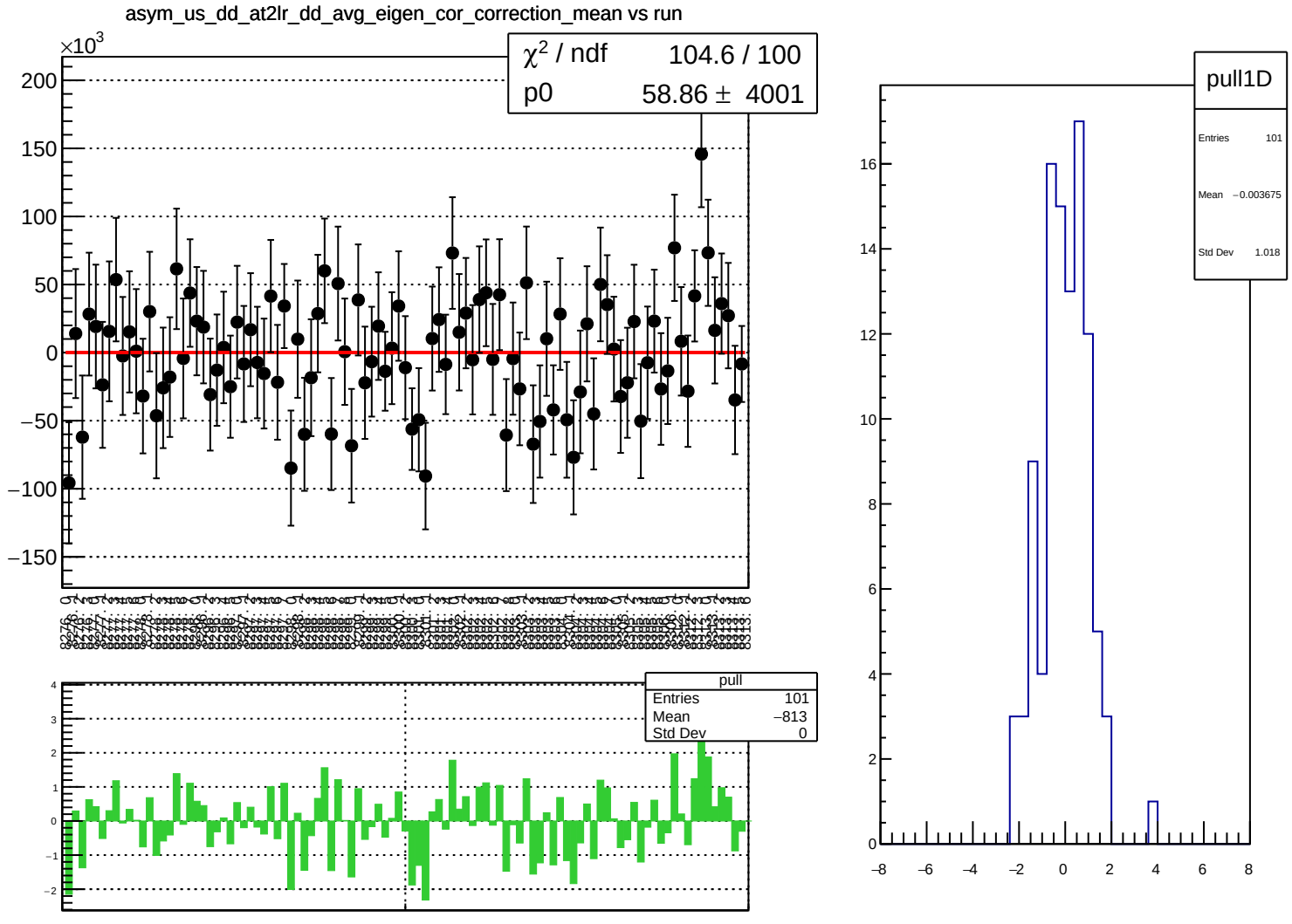

asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 104.6 / 100
p0 58.86 ± 4001
pull
Entries 101
Mean −813
Std Dev 0

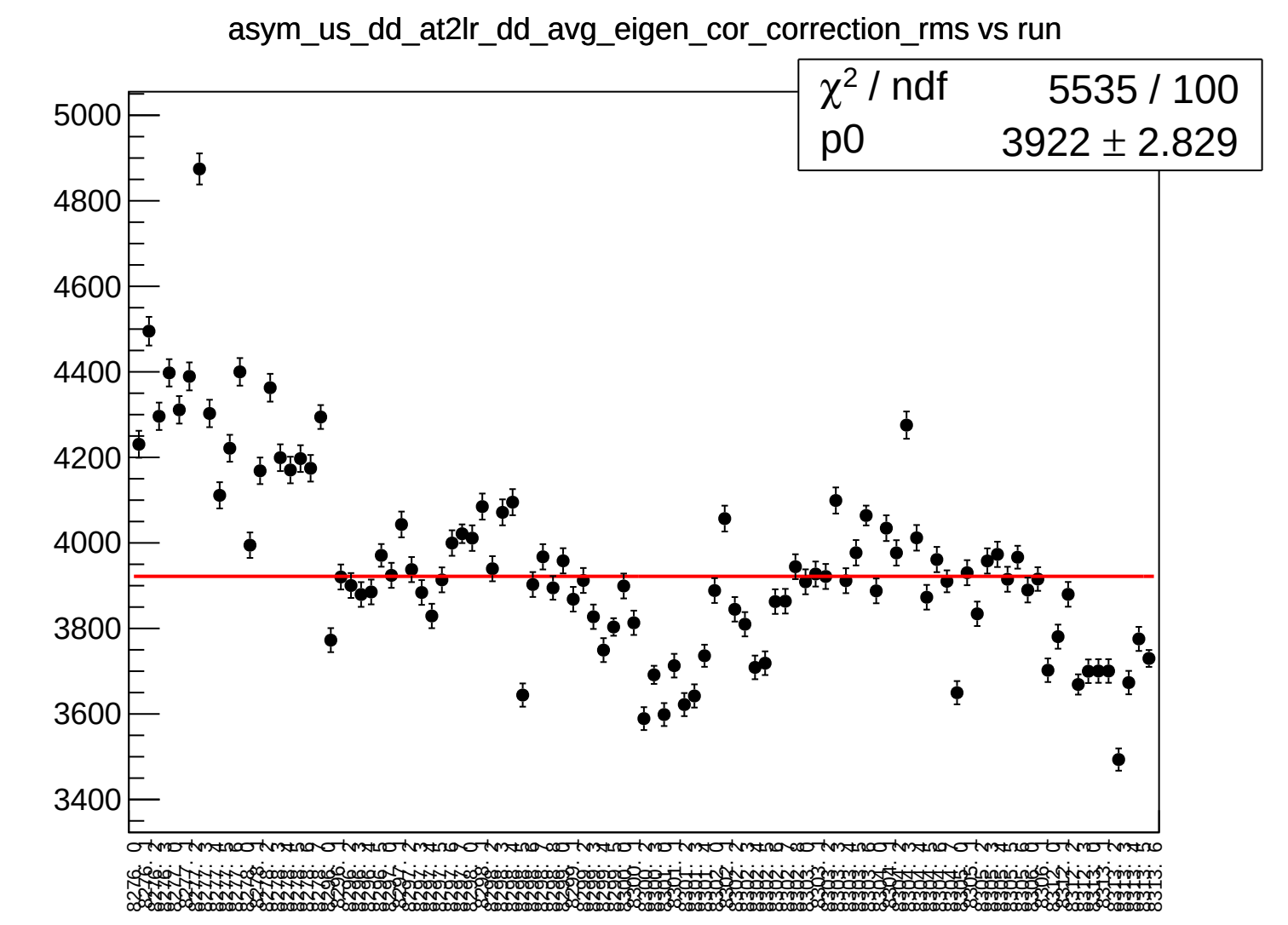

pull1D
Entries 101
Mean −0.003675
Std Dev 1.018

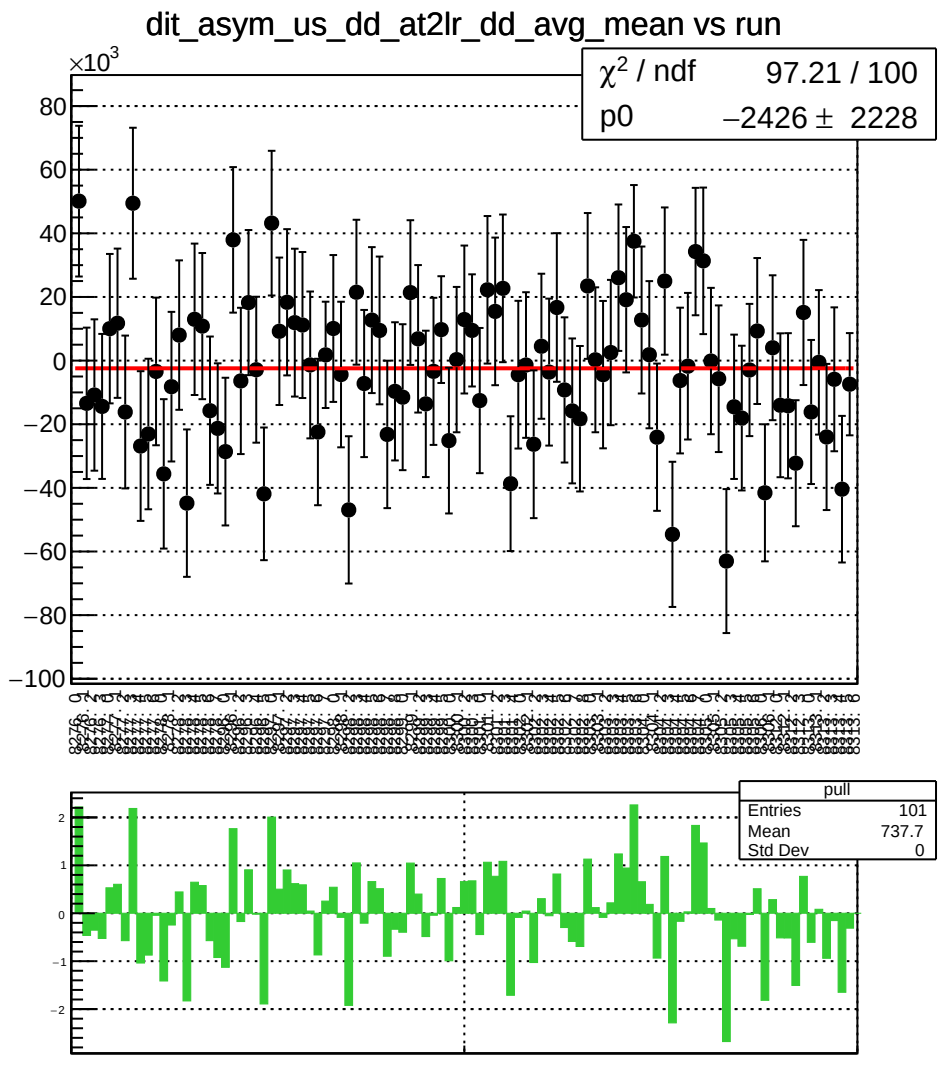

asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ^2 / ndf 5535 / 100
p0 3922 ± 2.829
5000
4800
4600
4400
4200
4000
3800
3600
3400

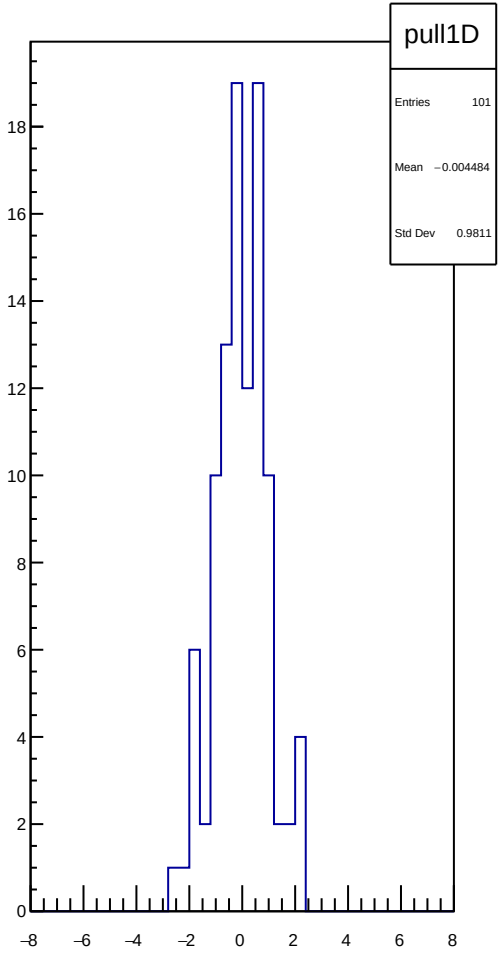

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 96.79 / 100
p0 −2536 ± 2227
pull
Entries 101
Mean 744.9
Std Dev 0
pull1D
Entries 101
Mean −0.004616
Std Dev 0.9789

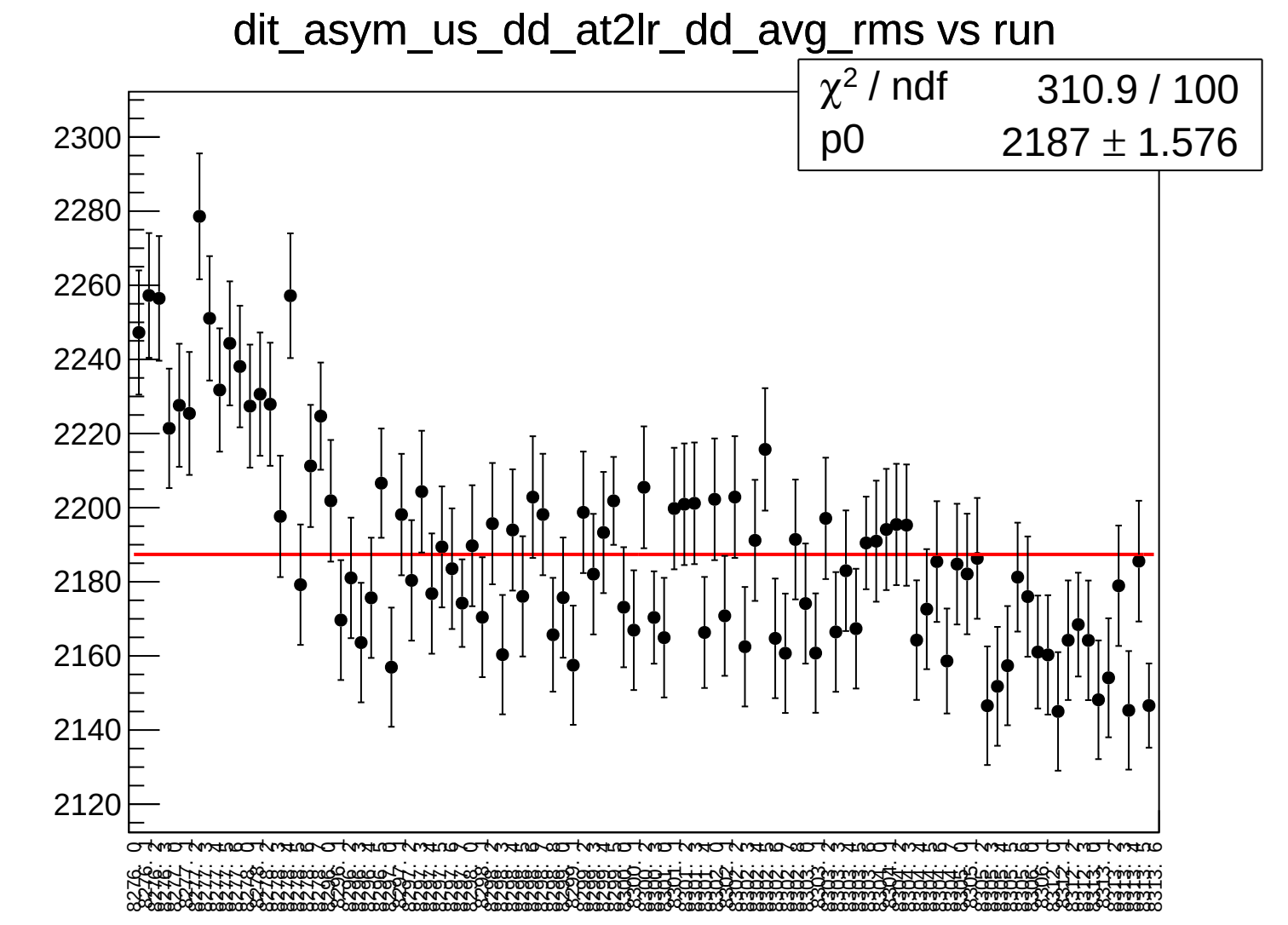

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 307.6 / 100
p0 2186 ± 1.575
2300
2280
2260
2240
2220
2200
2180
2160
2140
2120

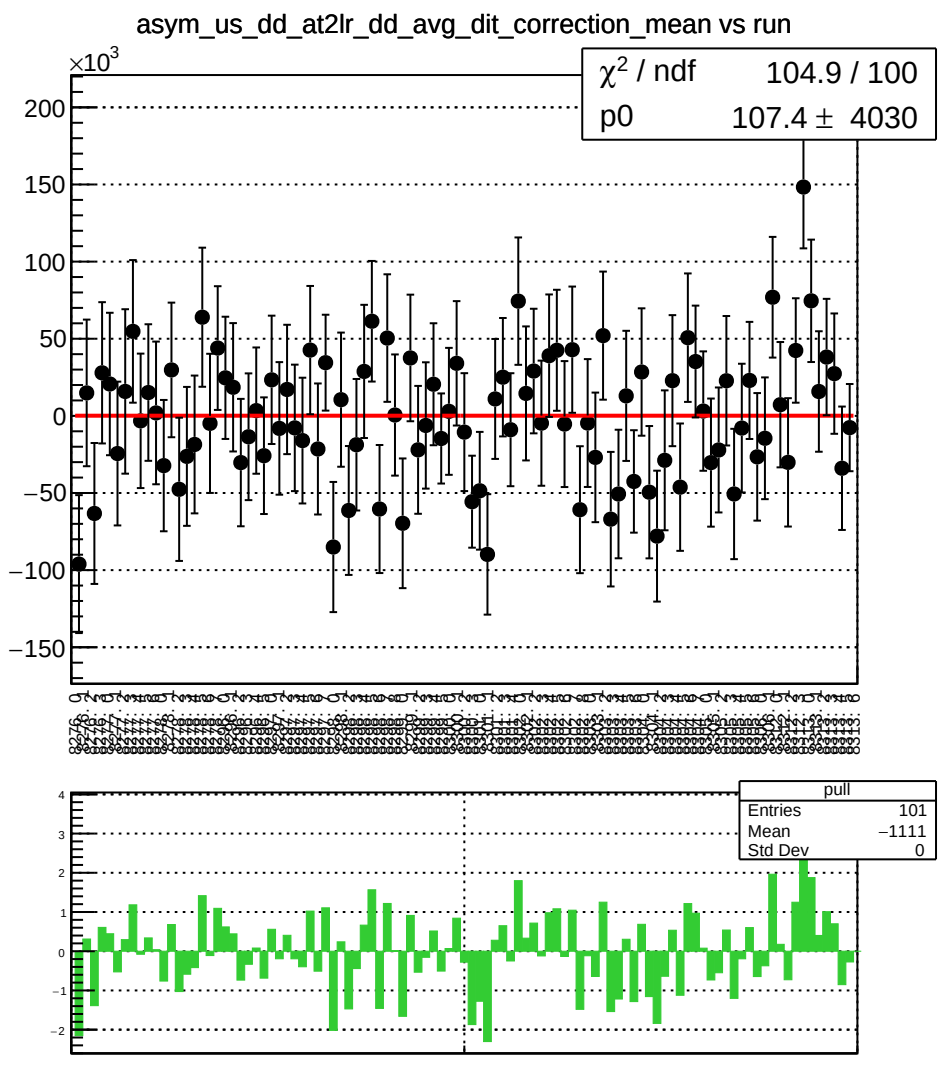

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 104.6 / 100
p0 58.86 ± 4001
pull
Entries 101
Mean −813
Std Dev 0
pull1D
Entries 101
Mean −0.003675
Std Dev 1.018

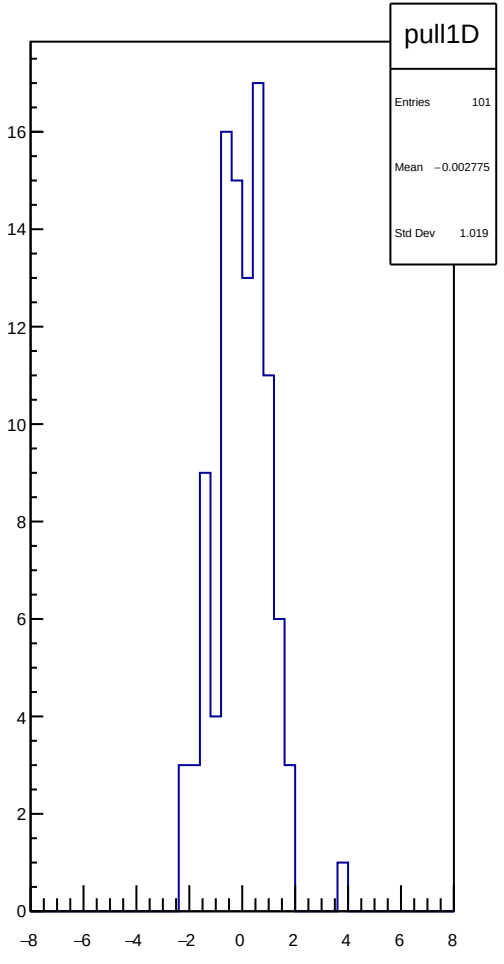

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 5535 / 100
p0 3922 ± 2.829
5000
4800
4600
4400
4200
4000
3800
3600
3400

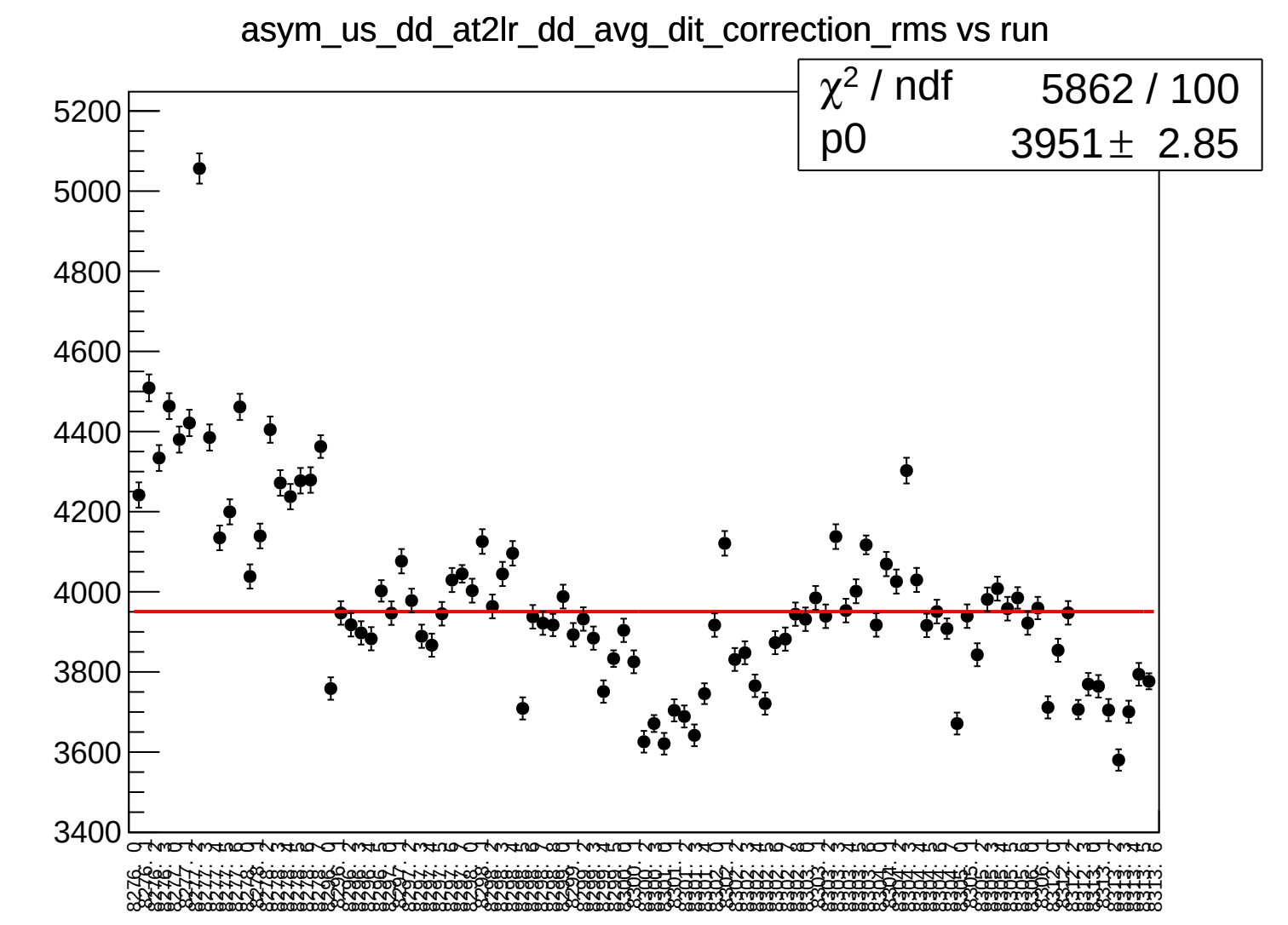

dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 97.21 / 100
p0 −2426 ± 2228
×10³
pull
Entries 101
Mean 737.7
Std Dev 0

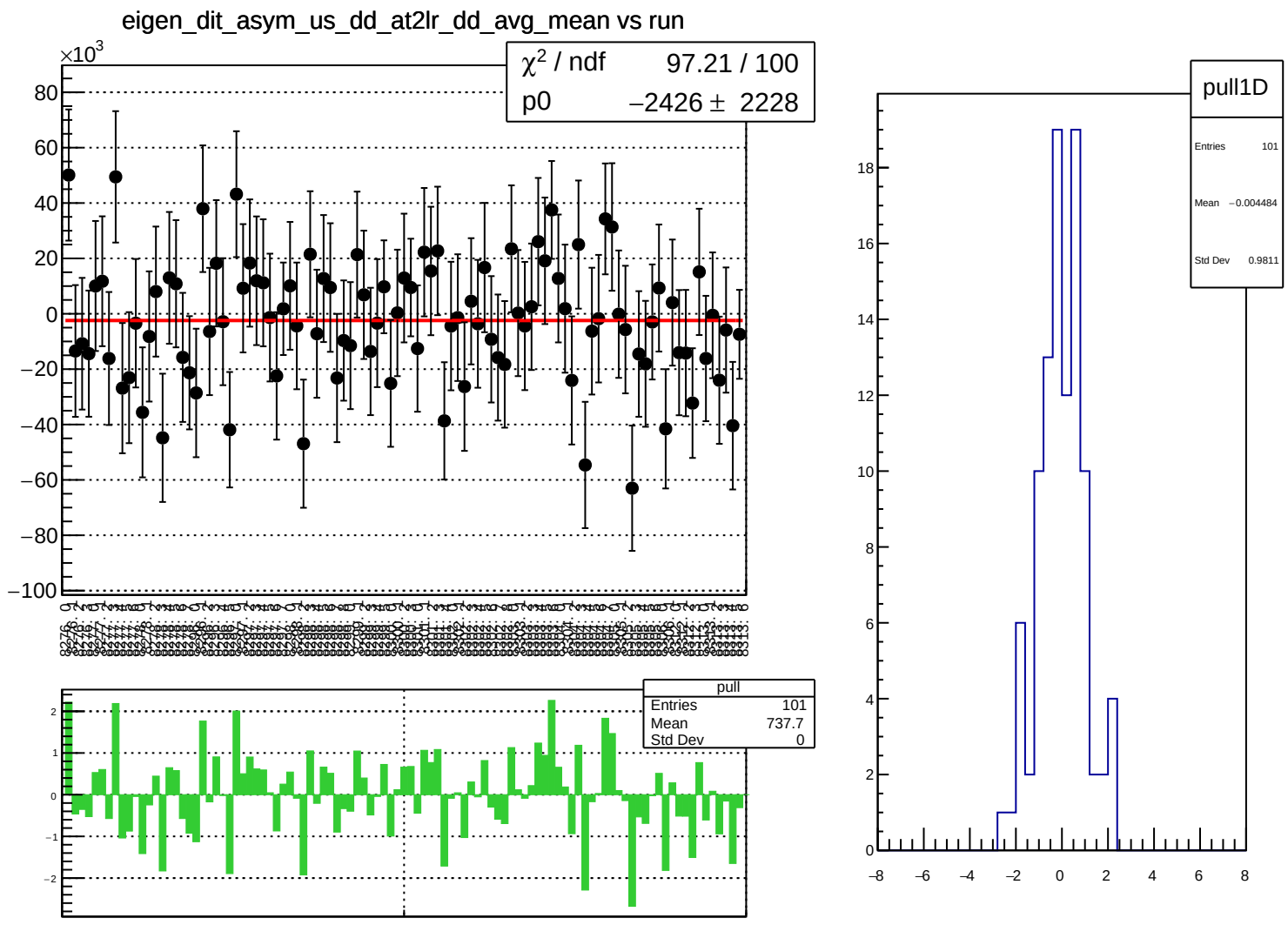

pull1D
Entries 101
Mean −0.004484
Std Dev 0.9811

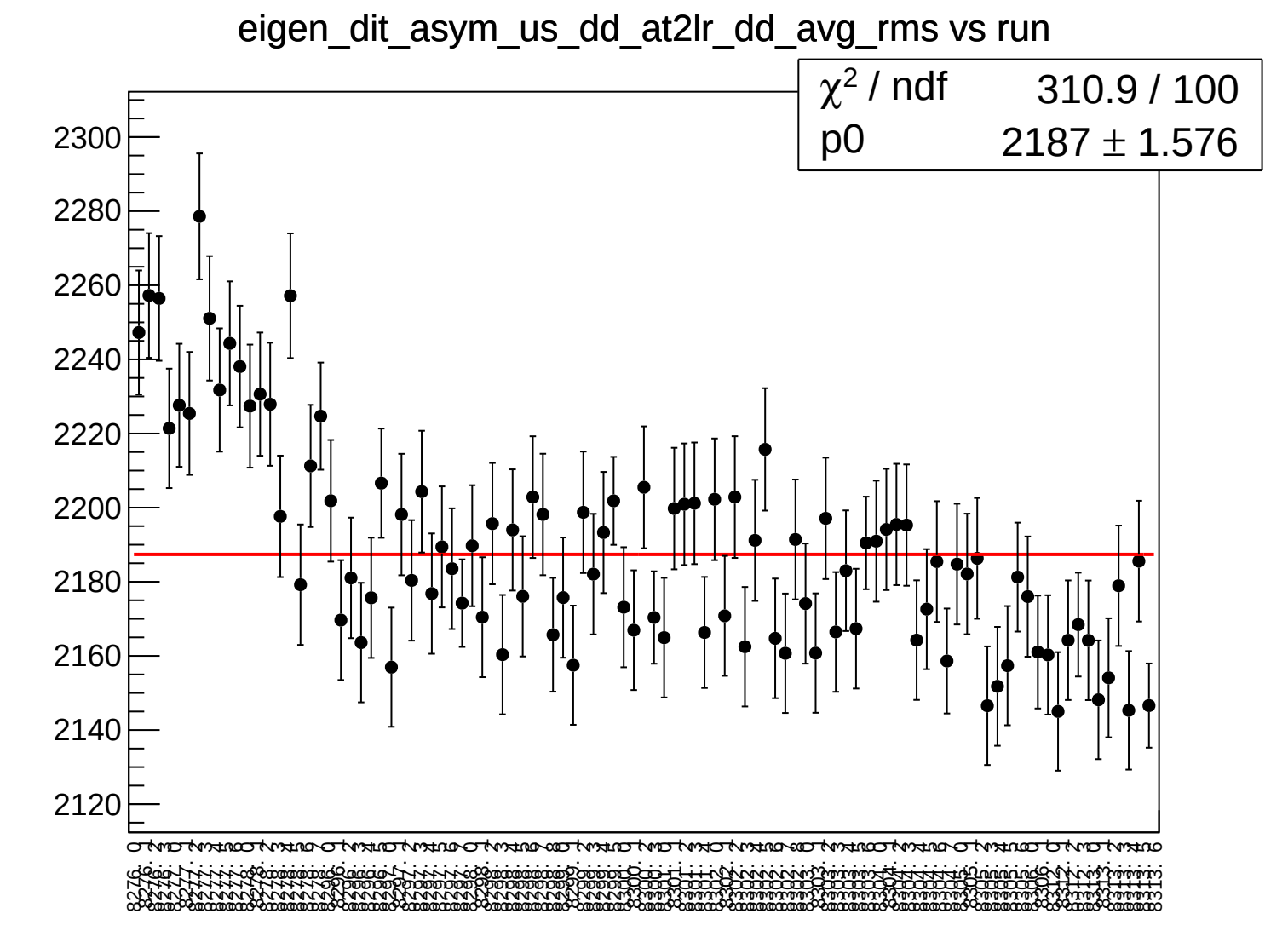

dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ^2 / ndf 310.9 / 100
p0 2187 ± 1.576
2300
2280
2260
2240
2220
2200
2180
2160
2140
2120

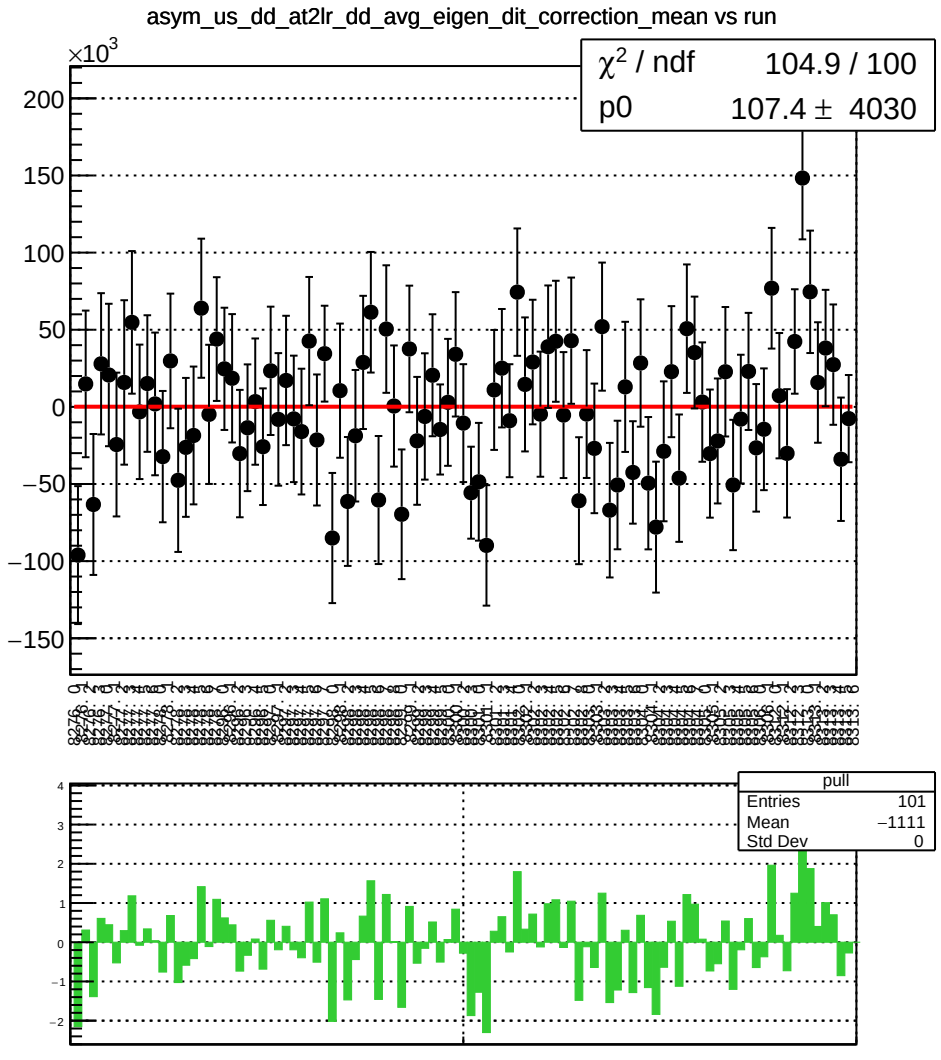

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 104.9 / 100
p0 107.4 ± 4030
pull
Entries 101
Mean −1111
Std Dev 0

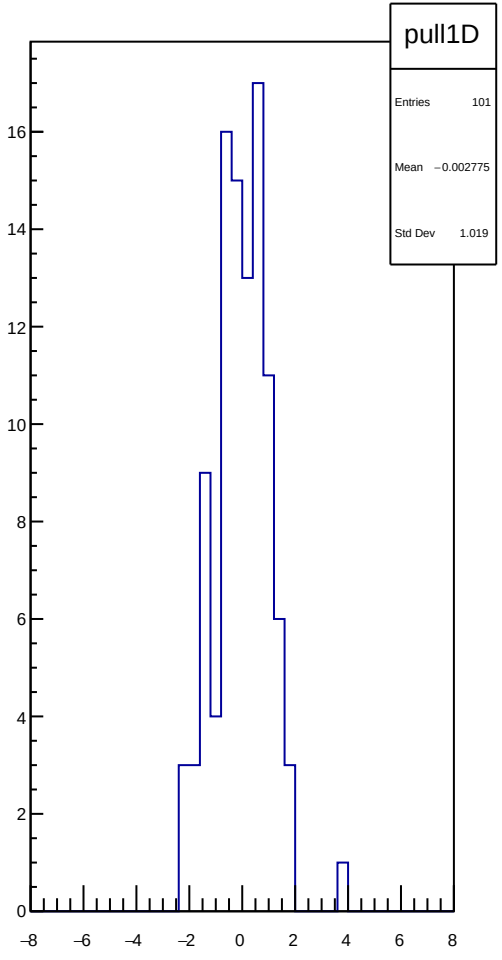

pull1D
Entries 101
Mean −0.002775
Std Dev 1.019

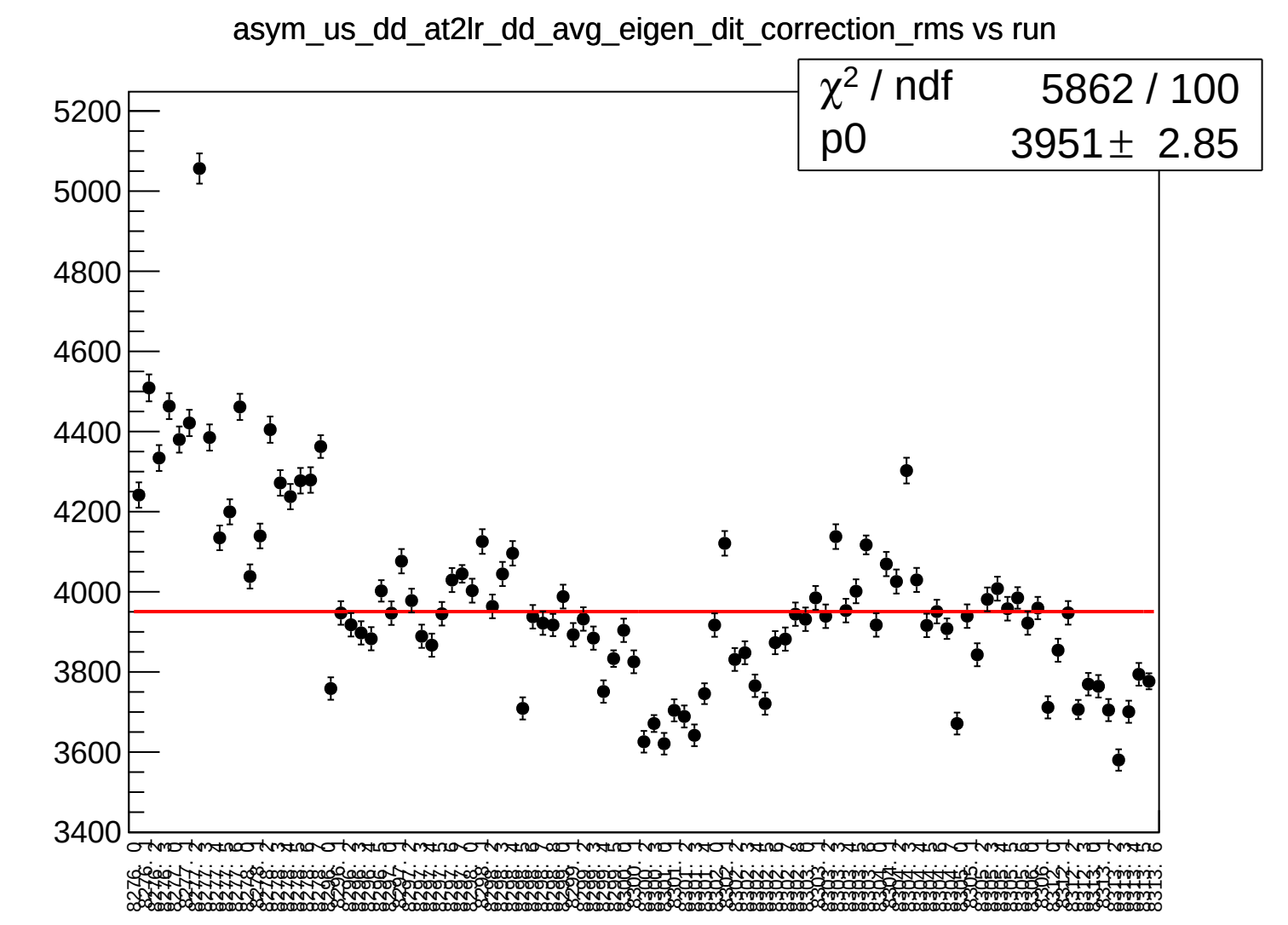

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 5862 / 100
p0 3951 ± 2.85
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400

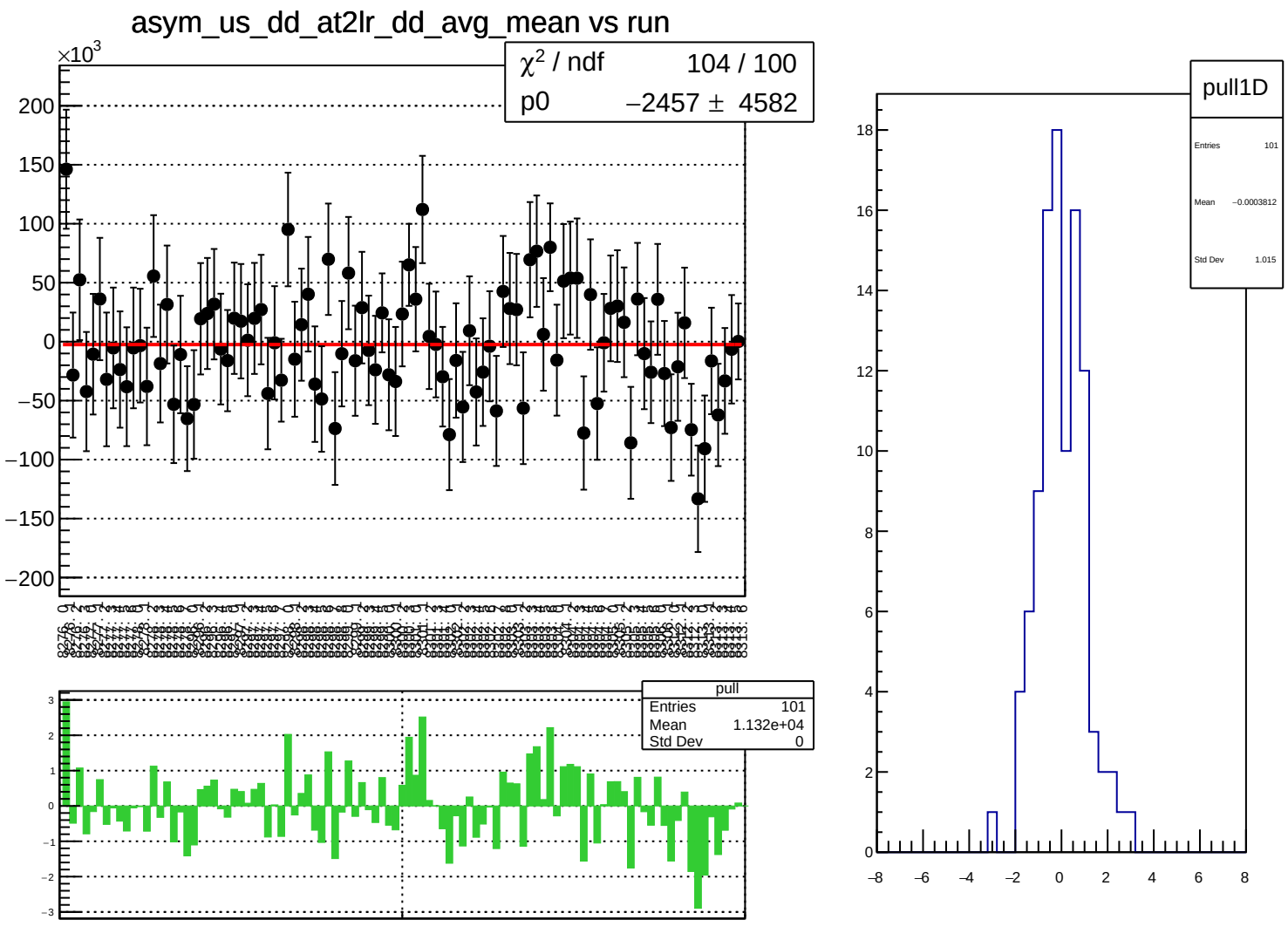

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 97.21 / 100
p0 −2426 ± 2228
×10³
pull
Entries 101
Mean 737.7
Std Dev 0
pull1D
Entries 101
Mean −0.004484
Std Dev 0.9811

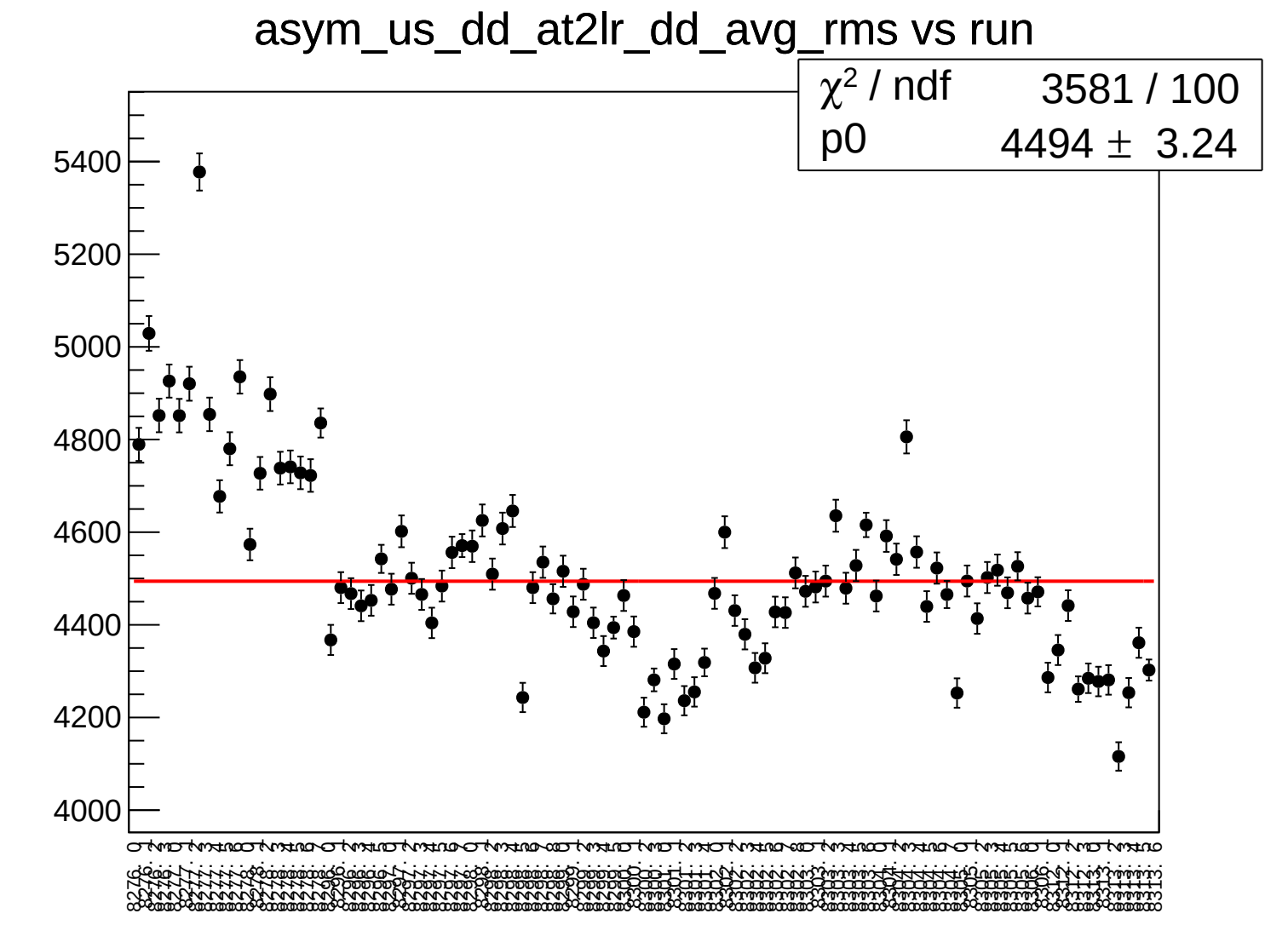

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 310.9 / 100
p0 2187 ± 1.576
2300
2280
2260
2240
2220
2200
2180
2160
2140
2120

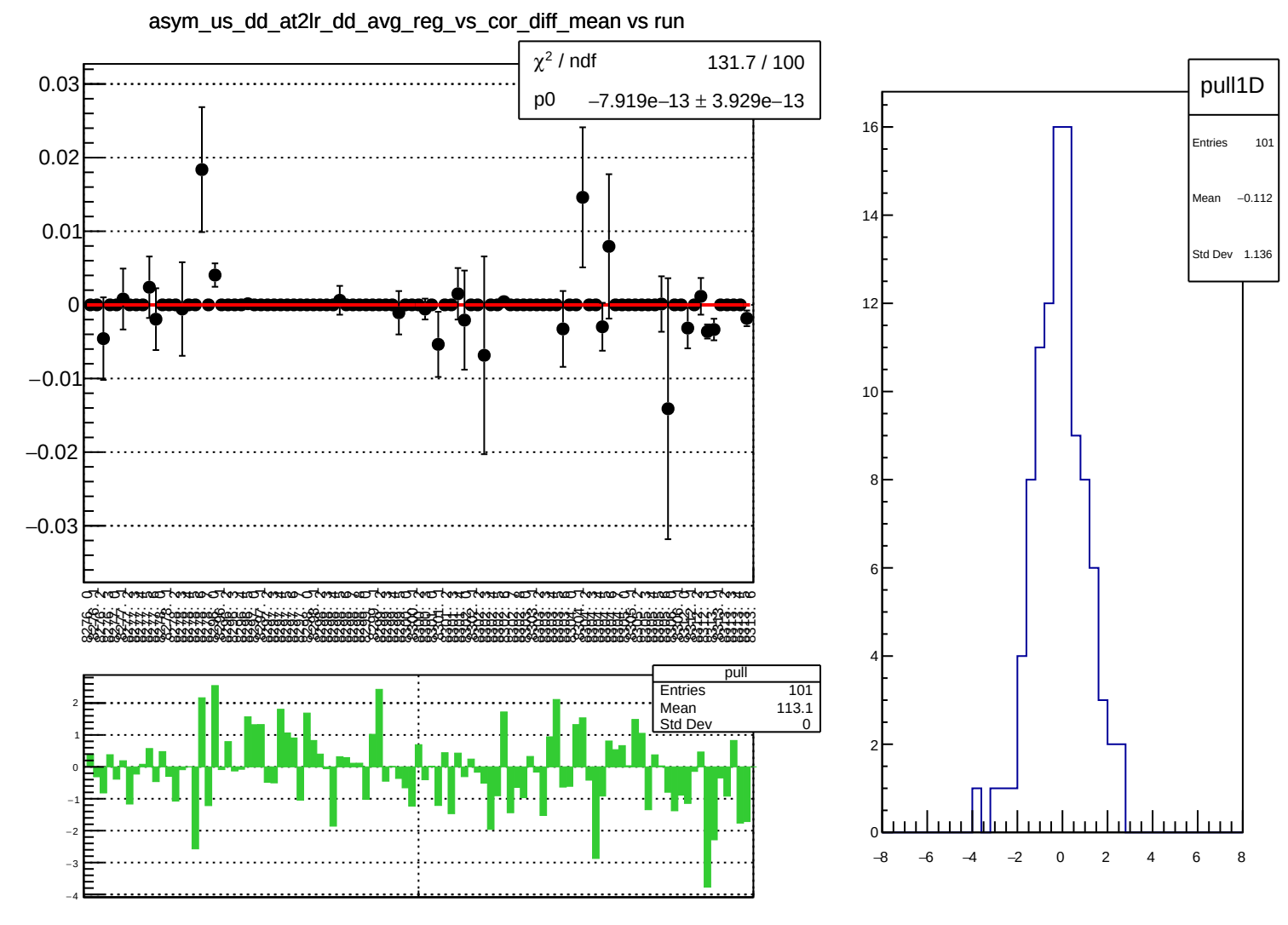

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 104.9 / 100
p0 107.4 ± 4030
200
150
100
50
0
−50
−100
−150
pull
Entries 101
Mean −1111
Std Dev 0
4
3
2
1
0
−1
−2

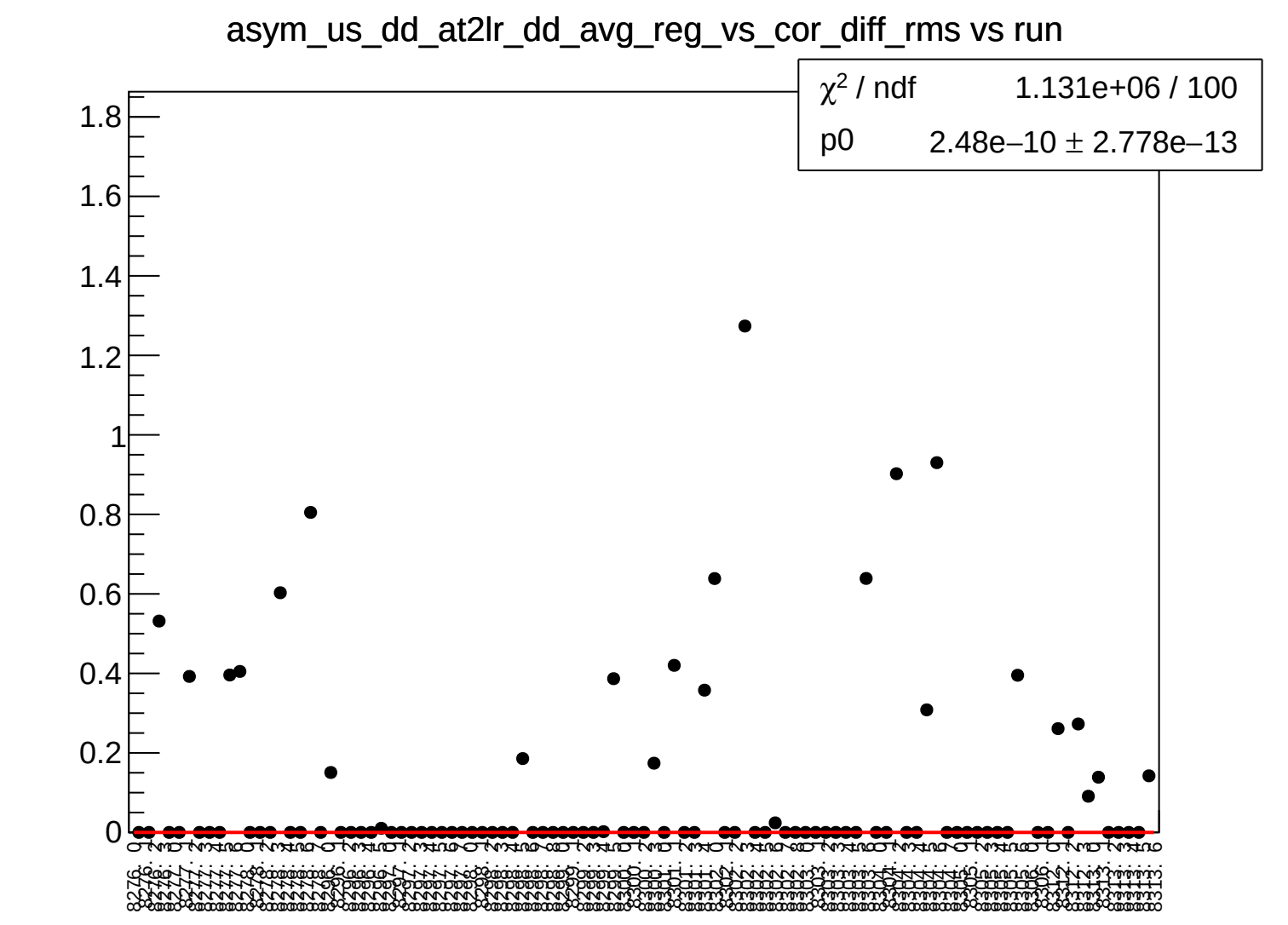

pull1D
Entries 101
Mean −0.002775
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

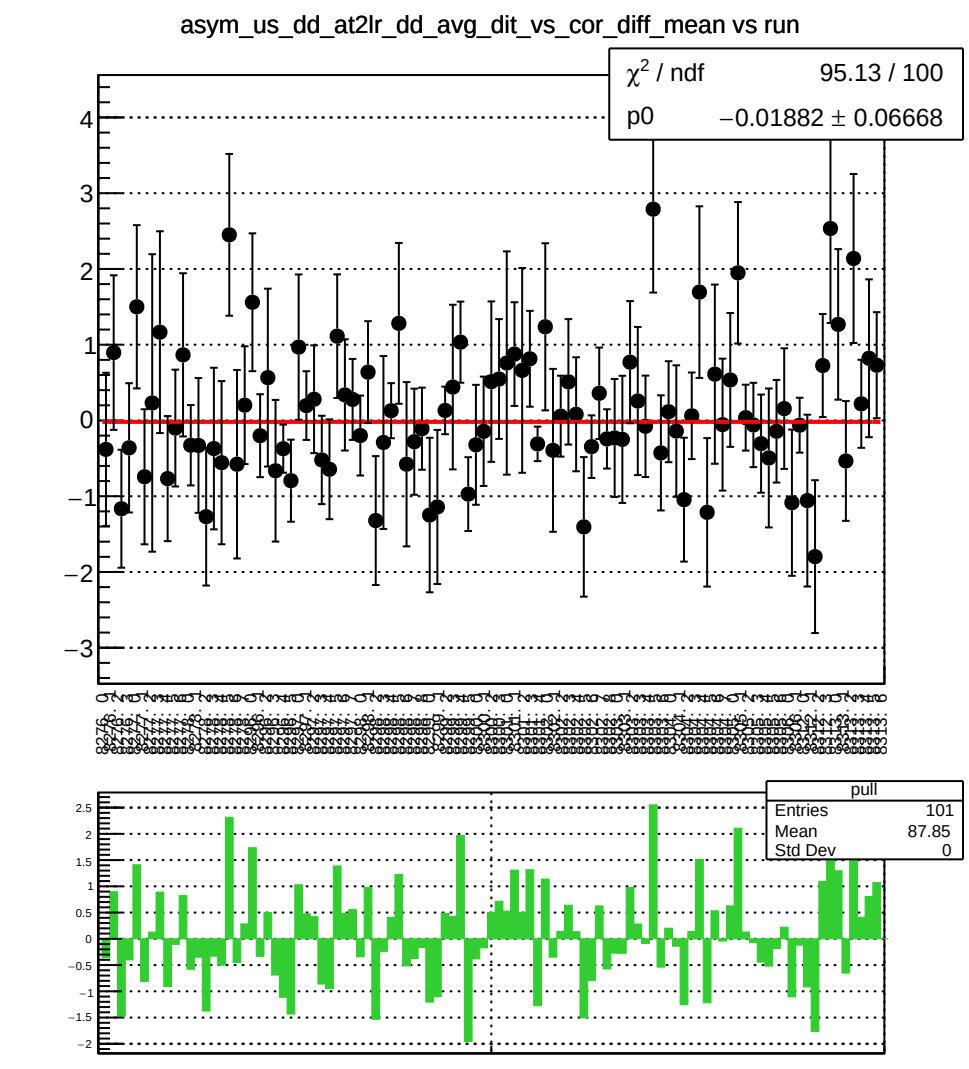

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 5862 / 100
p0 3951 ± 2.85
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400

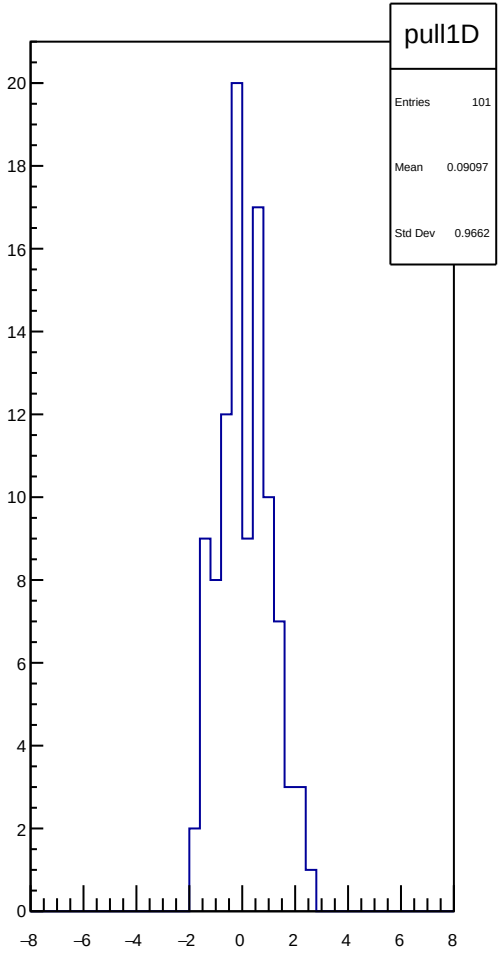

asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 104 / 100
p0 −2457 ± 4582
pull
Entries 101
Mean 1.132e+04
Std Dev 0
pull1D
Entries 101
Mean −0.0003812
Std Dev 1.015

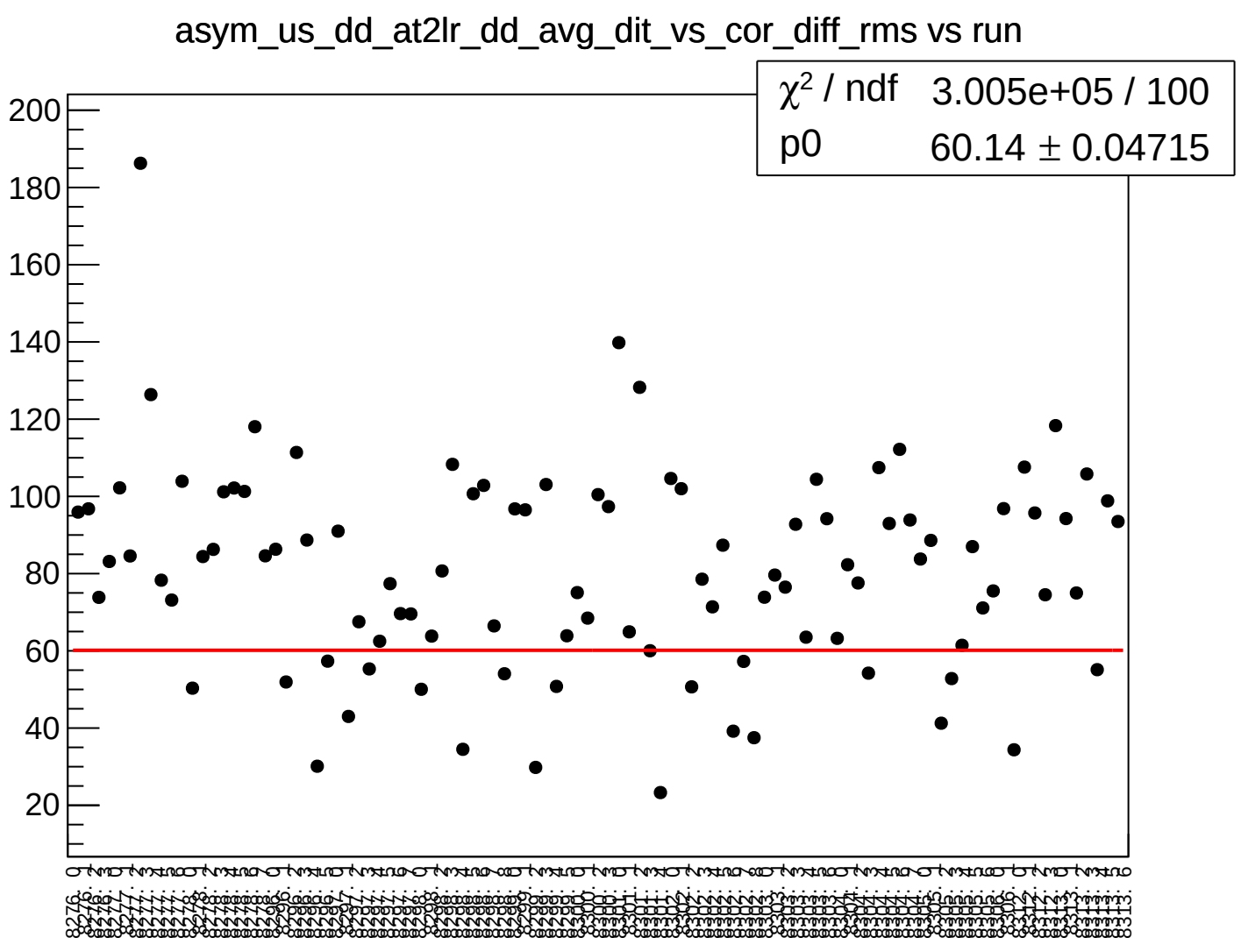

asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 3581 / 100
p0 4494 ± 3.24
5400
5200
5000
4800
4600
4400
4200
4000

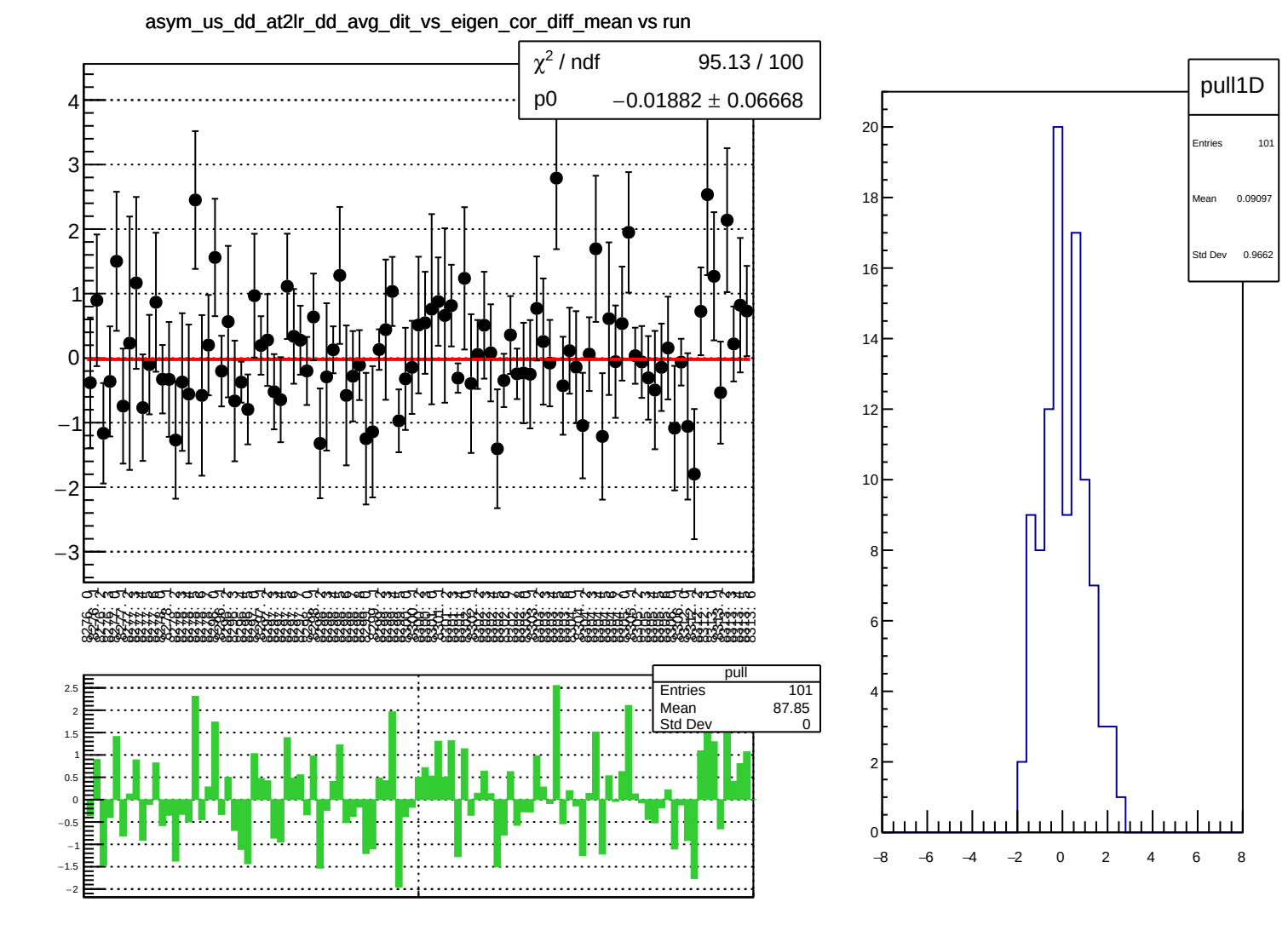

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 131.7 / 100
p0 −7.919e−13 ± 3.929e−13
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 101
Mean 113.1
Std Dev 0
pull1D
Entries 101
Mean −0.112
Std Dev 1.136

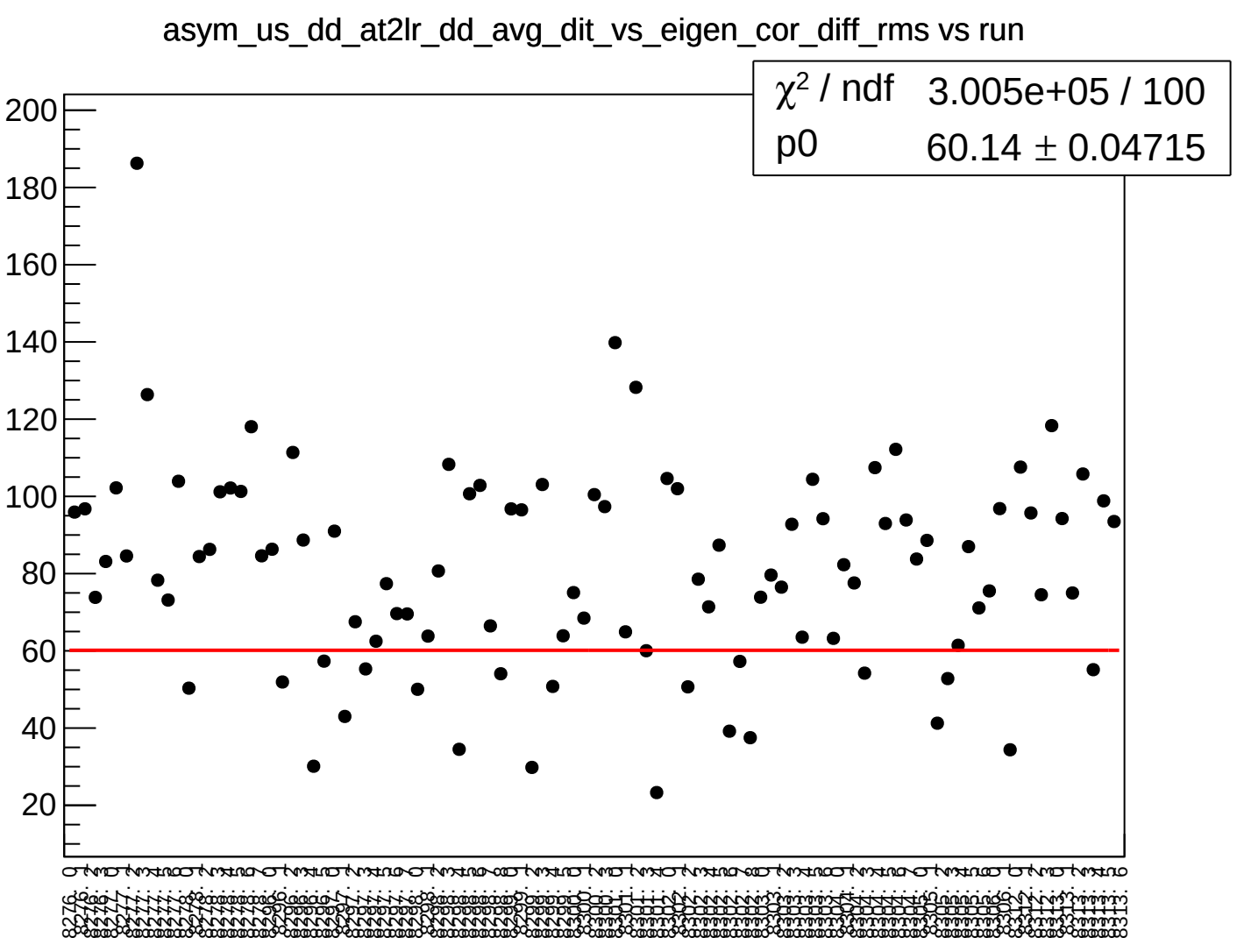

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.131e+06 / 100
p0 2.48e−10 ± 2.778e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

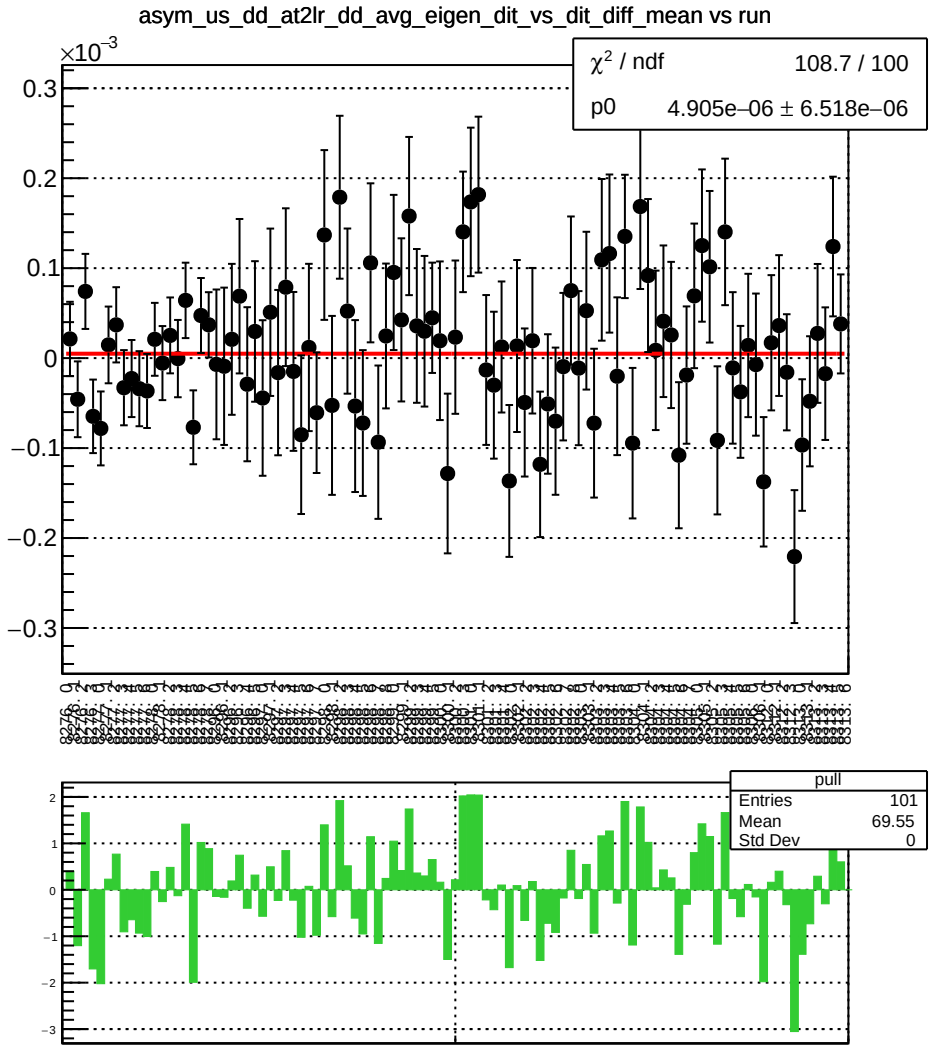

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 95.13 / 100
p0 −0.01882 ± 0.06668
pull
Entries 101
Mean 87.85
Std Dev 0

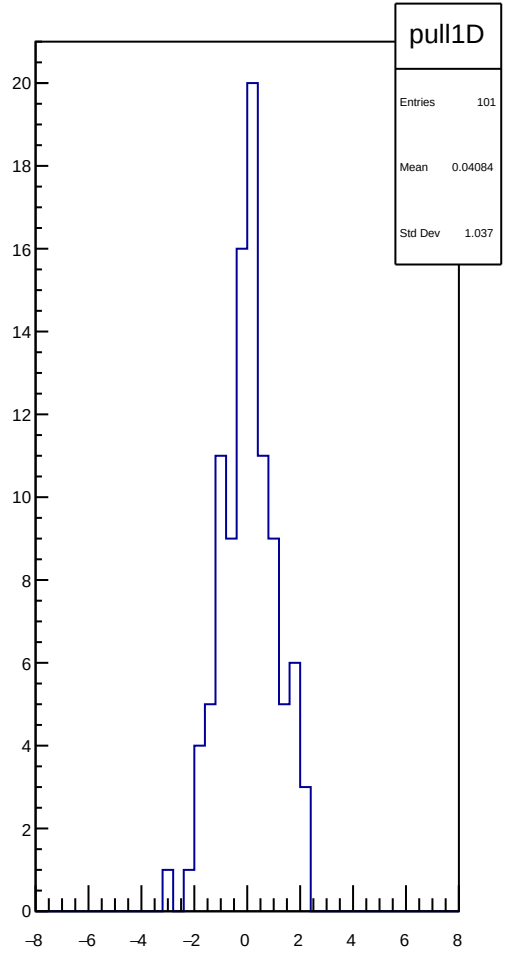

pull1D
Entries 101
Mean 0.09097
Std Dev 0.9662

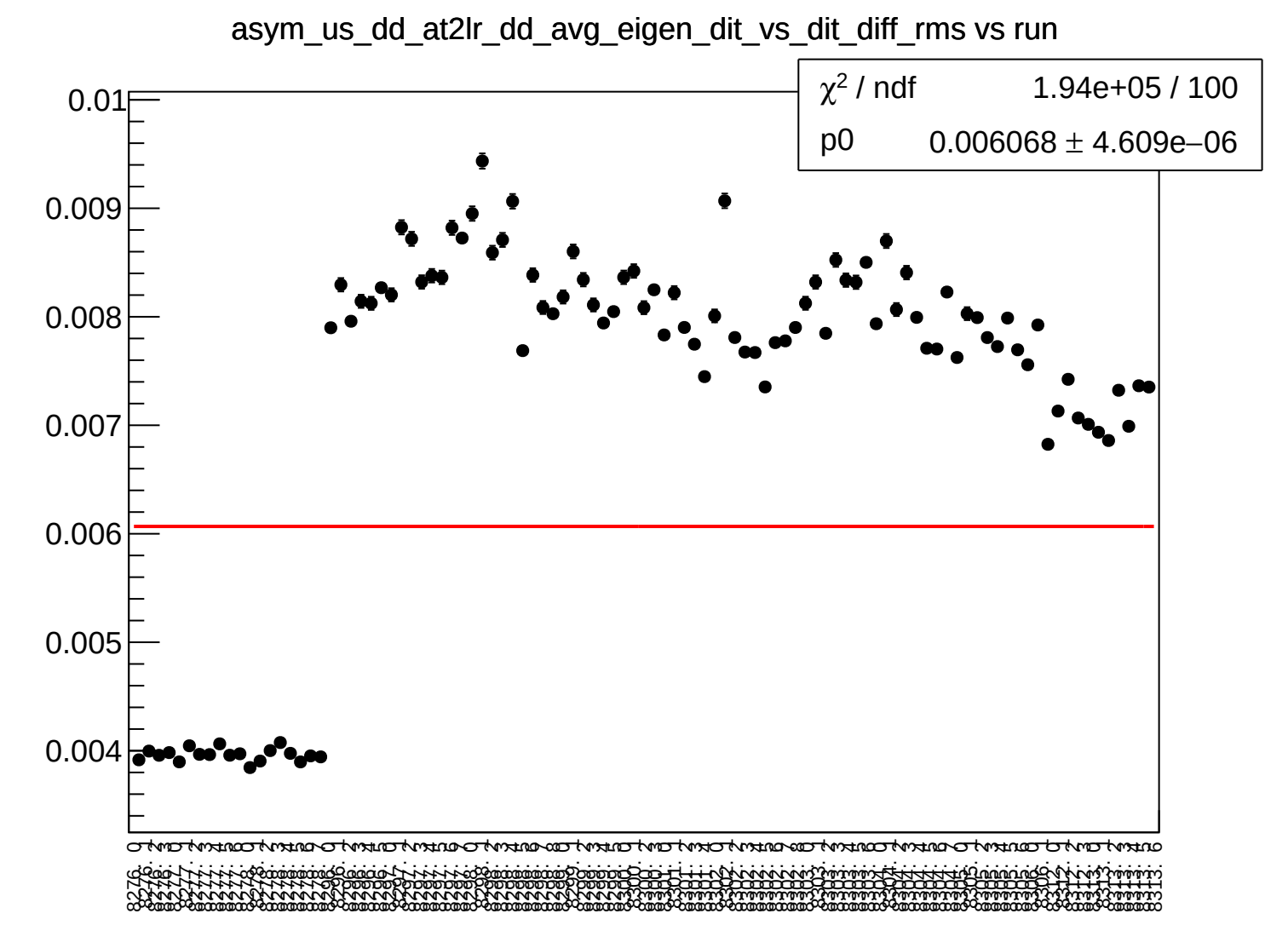

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.005e+05 / 100
p0 60.14 ± 0.04715
200
180
160
140
120
100
80
60
40
20

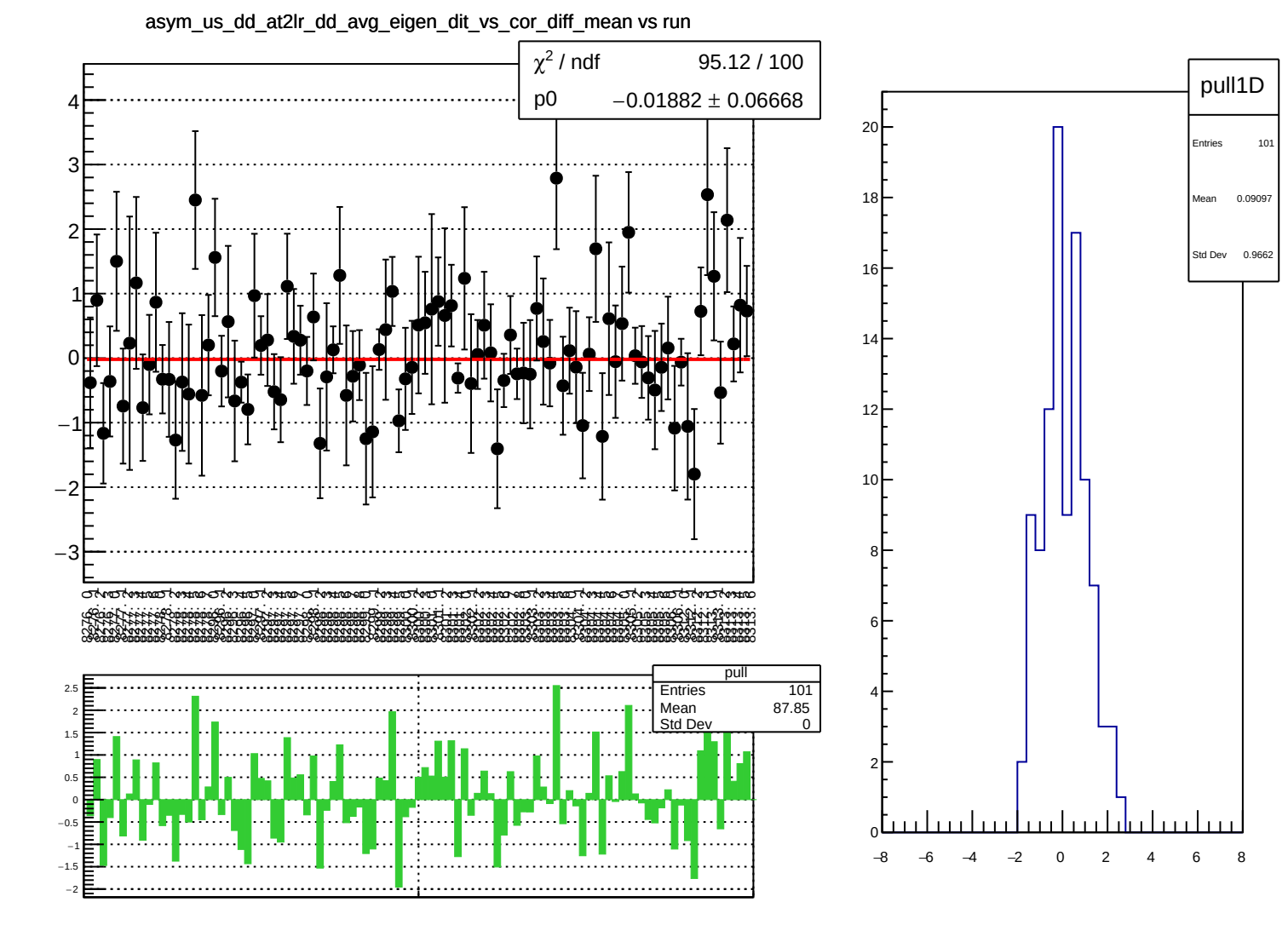

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.13 / 100
p0 −0.01882 ± 0.06668
pull
Entries 101
Mean 87.85
Std Dev 0
pull1D
Entries 101
Mean 0.09097
Std Dev 0.9662

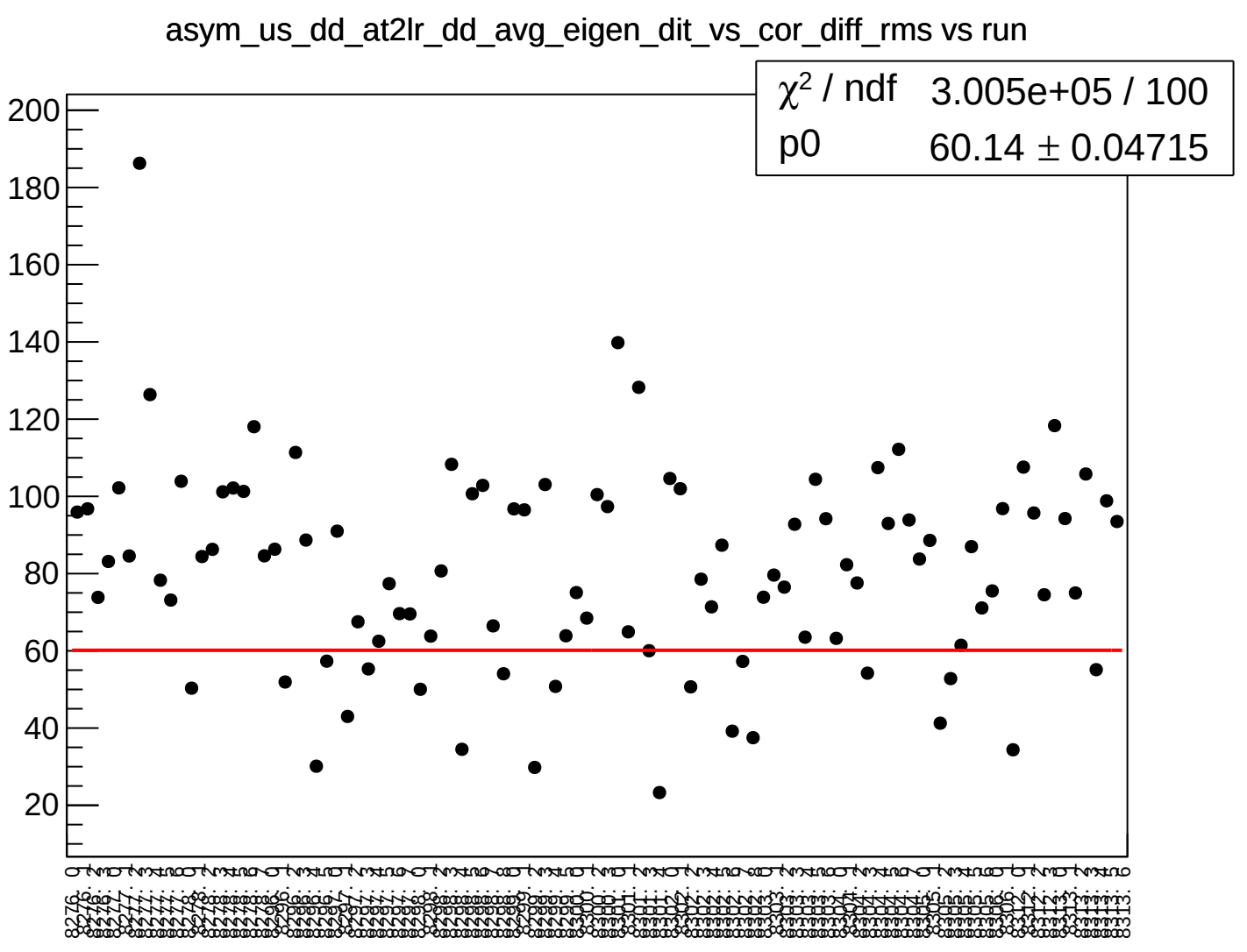

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.005e+05 / 100
p0 60.14 ± 0.04715
200
180
160
140
120
100
80
60
40
20

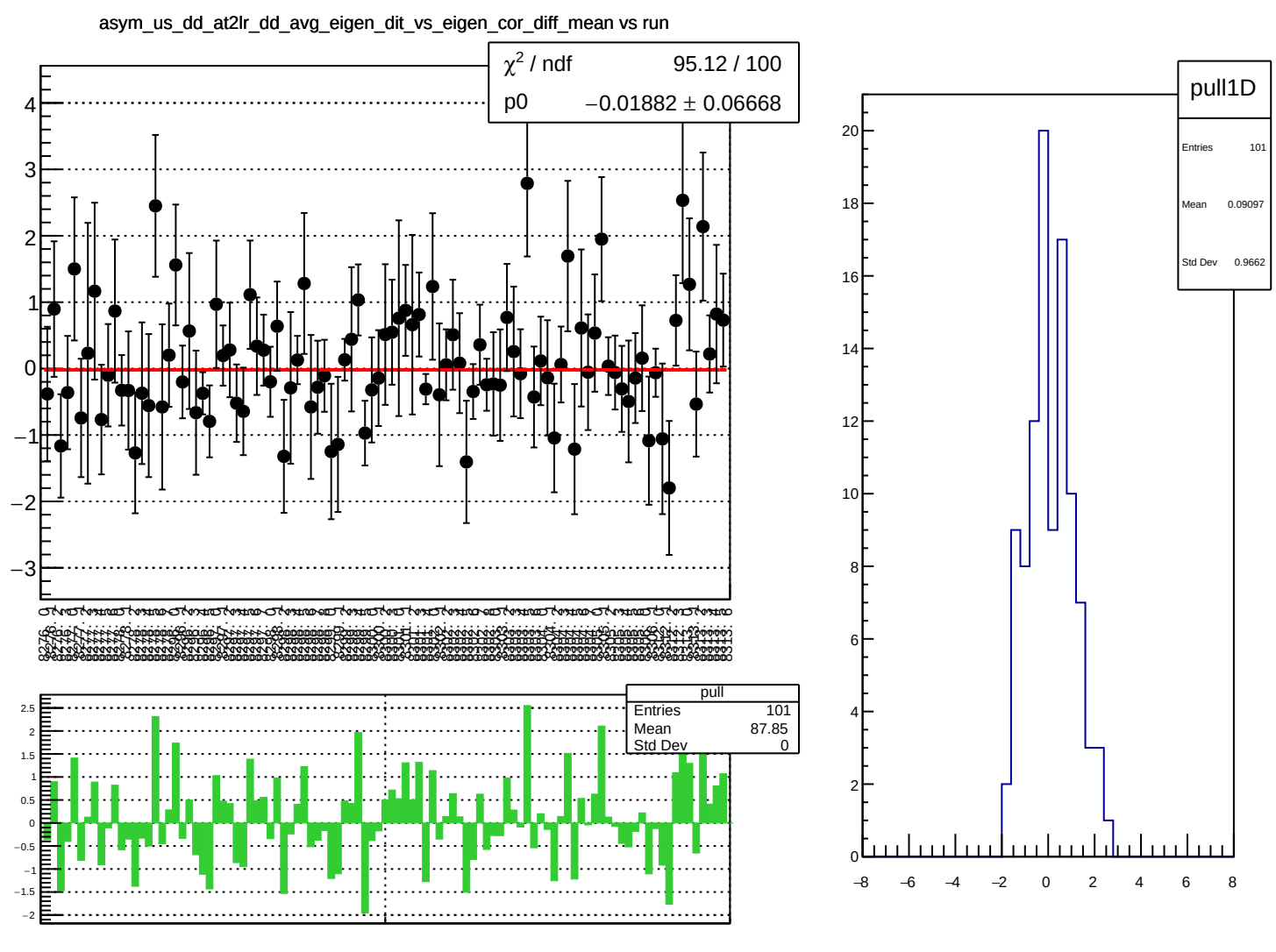

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 108.7 / 100
p0 4.905e−06 ± 6.518e−06
pull
Entries 101
Mean 69.55
Std Dev 0

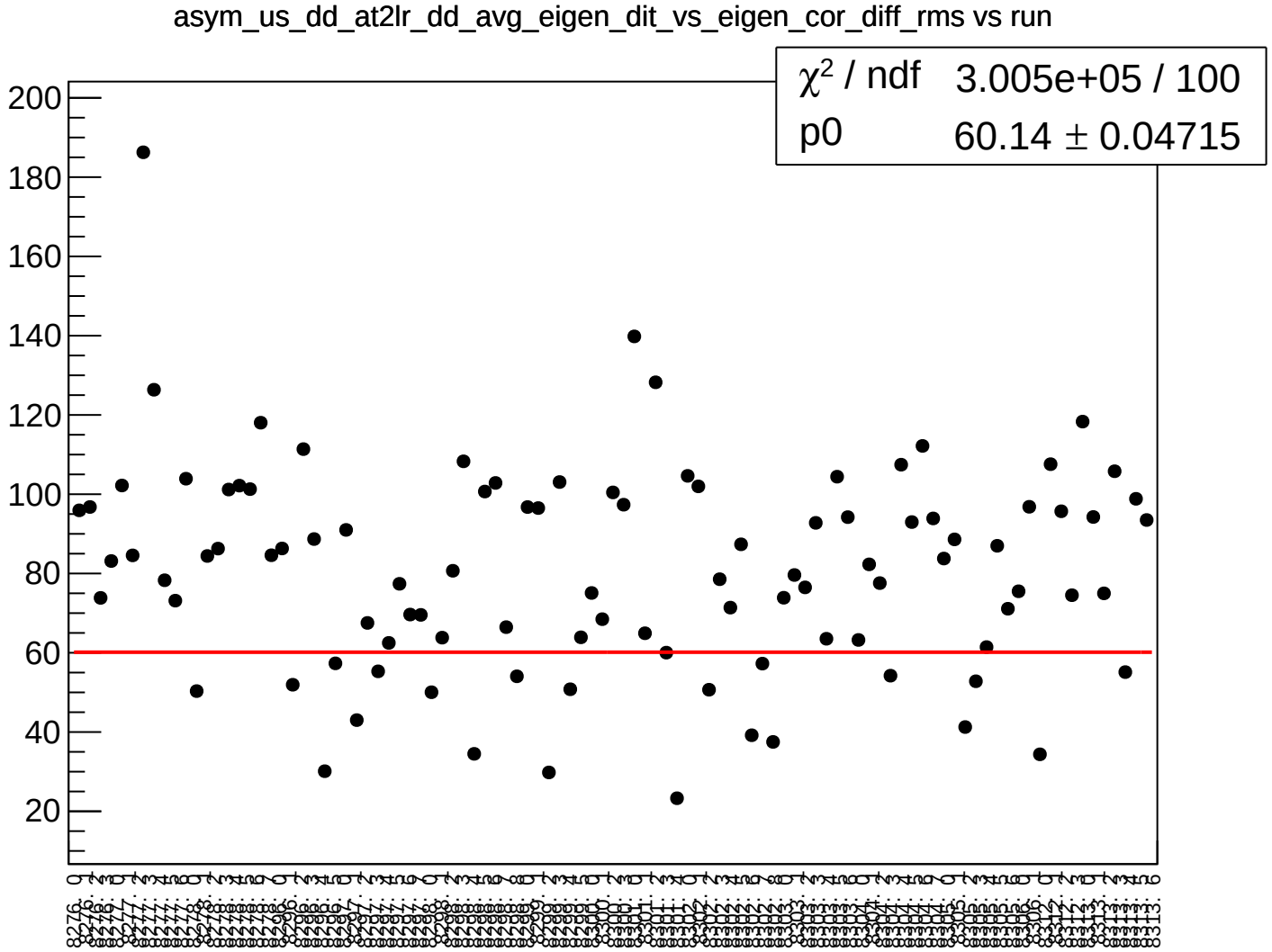

pull1D
Entries 101
Mean 0.04084
Std Dev 1.037

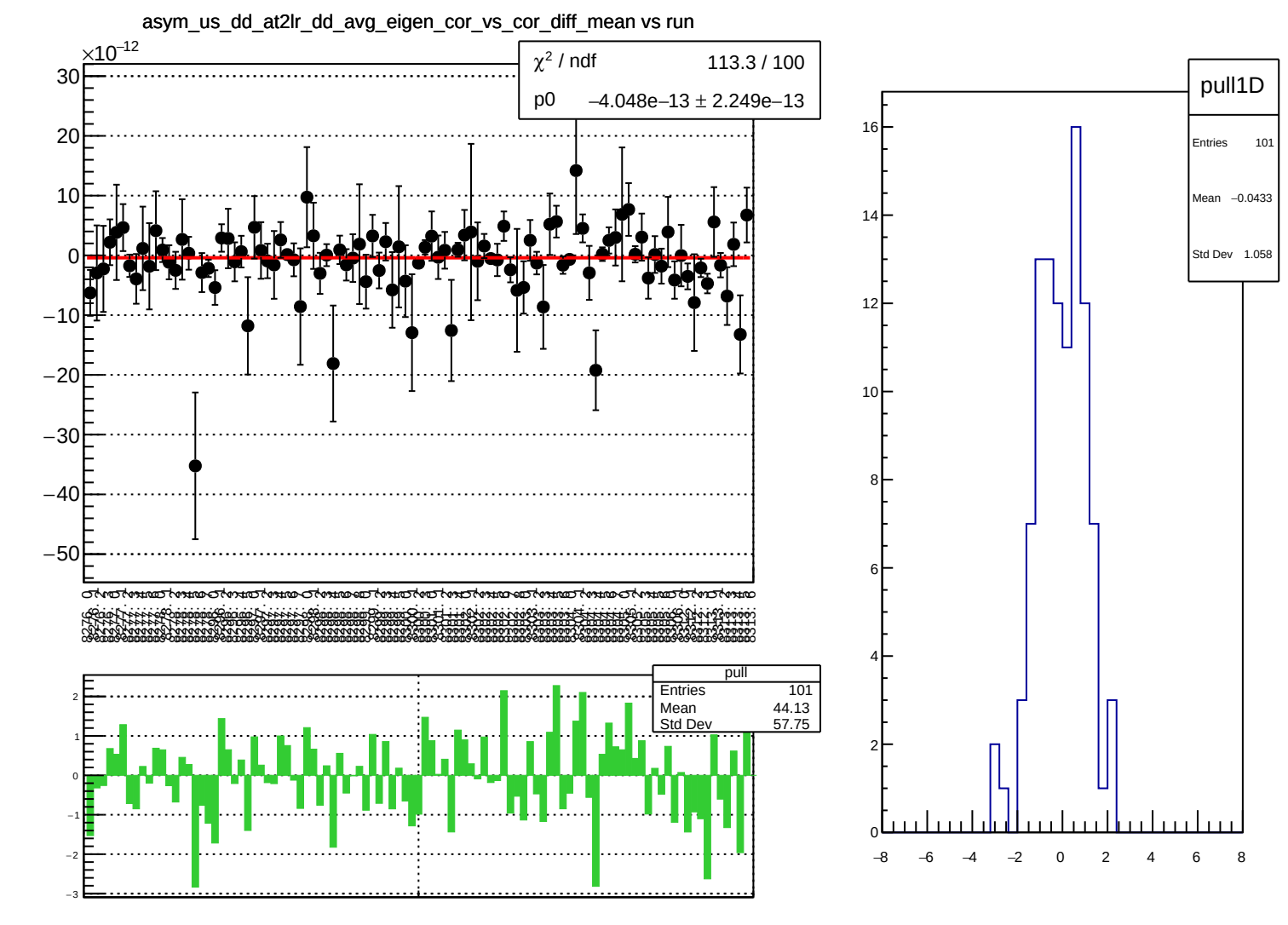

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.94e+05 / 100
p0 0.006068 ± 4.609e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004

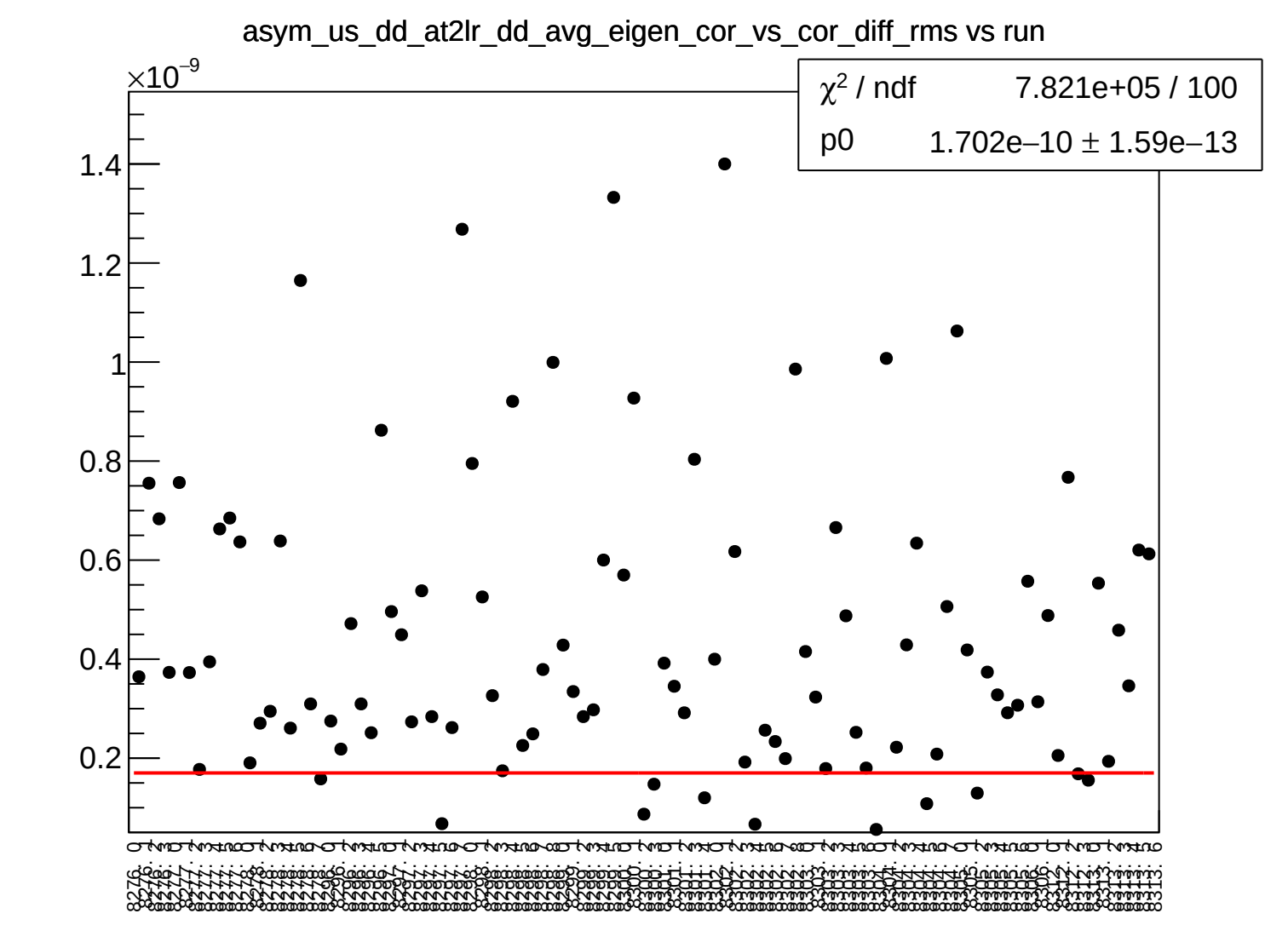

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.12 / 100
p0 −0.01882 ± 0.06668
pull
Entries 101
Mean 87.85
Std Dev 0
pull1D
Entries 101
Mean 0.09097
Std Dev 0.9662

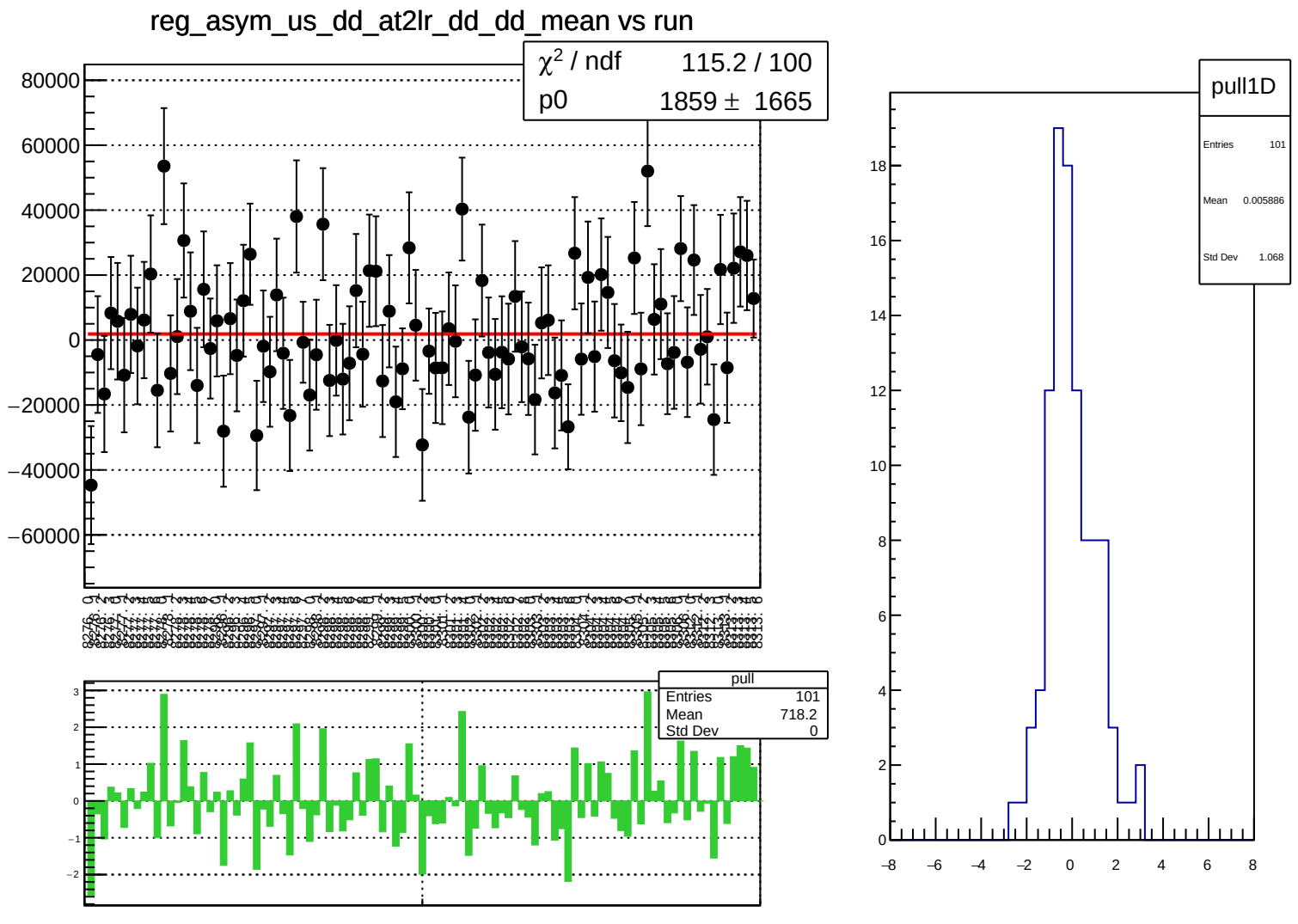

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.005e+05 / 100
p0 60.14 ± 0.04715
200
180
160
140
120
100
80
60
40
20

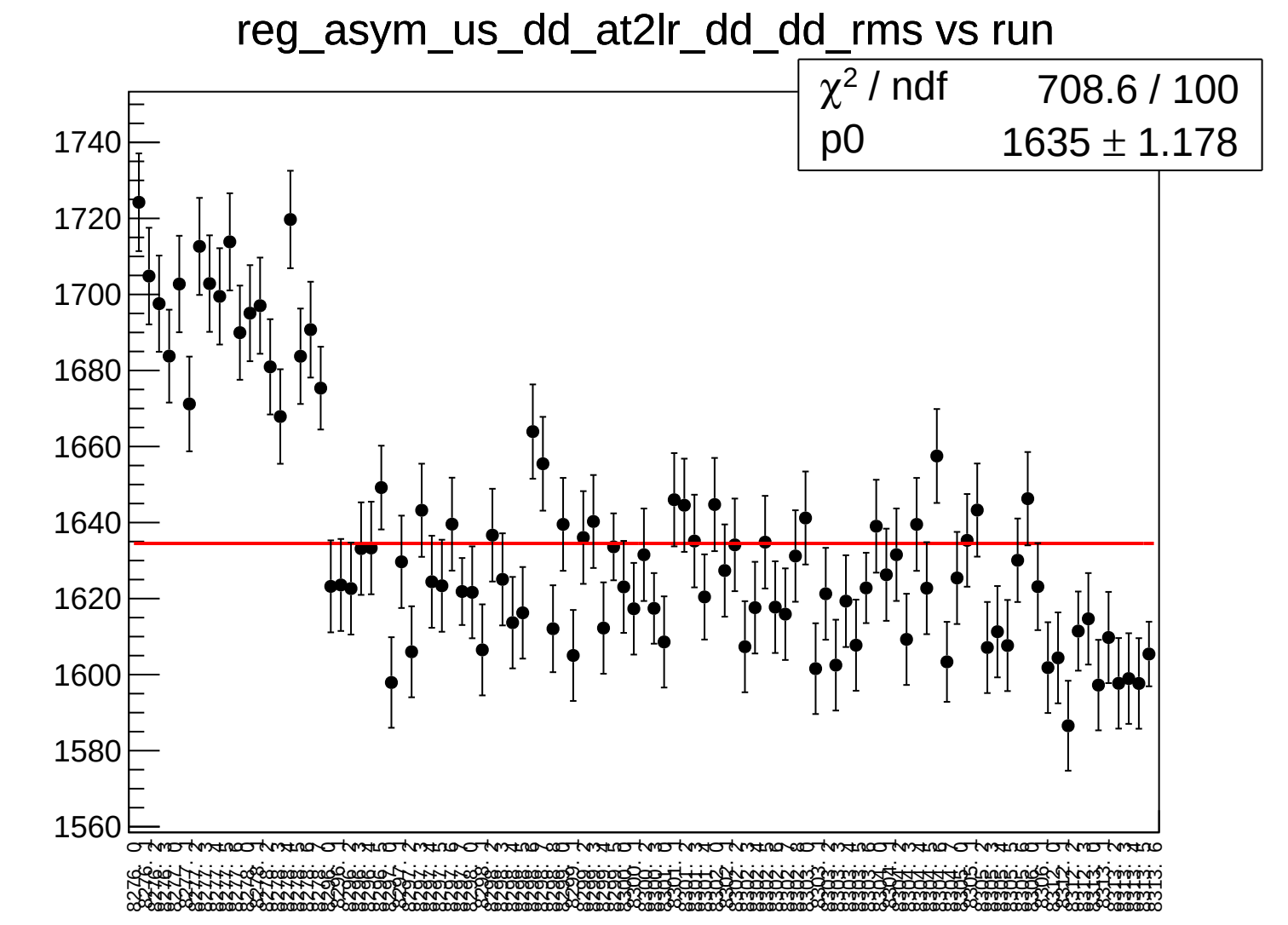

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.12 / 100
p0 −0.01882 ± 0.06668
pull
Entries 101
Mean 87.85
Std Dev 0
pull1D
Entries 101
Mean 0.09097
Std Dev 0.9662

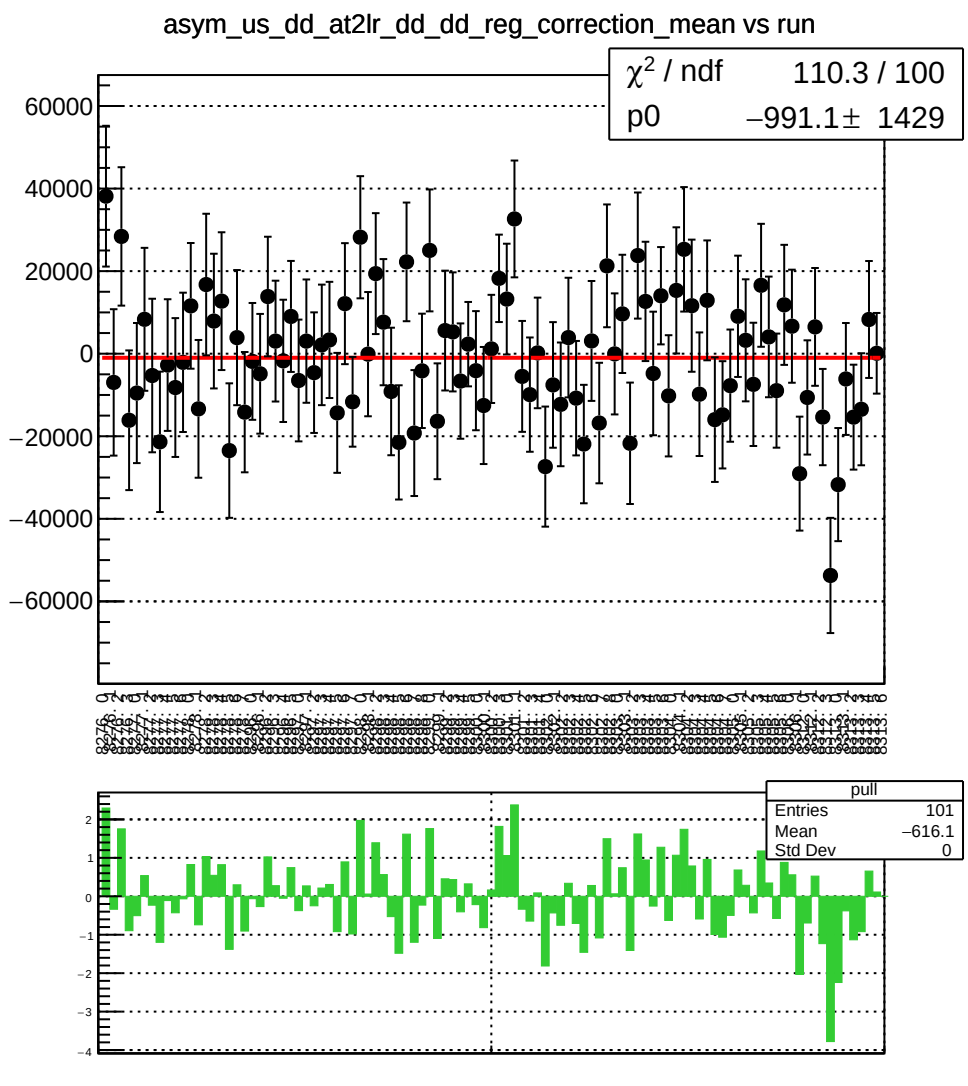

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.005e+05 / 100
p0 60.14 ± 0.04715
200
180
160
140
120
100
80
60
40
20

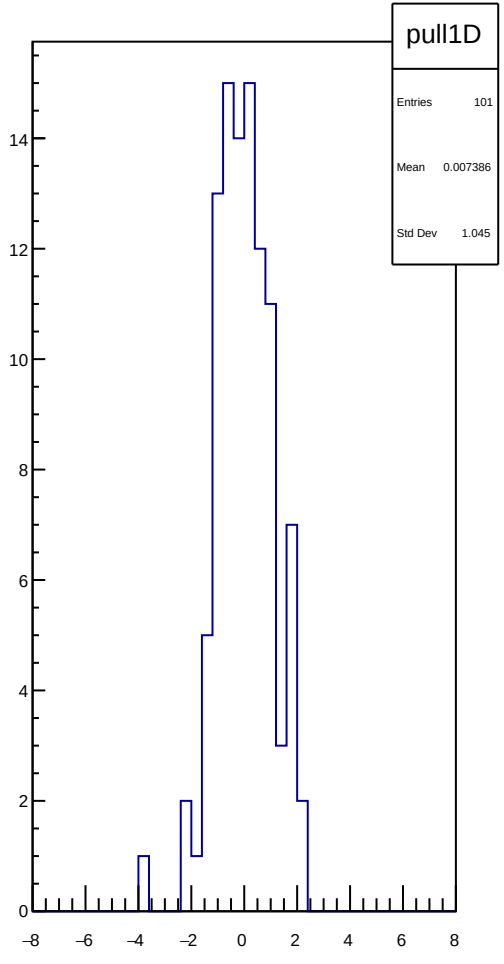

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10^-12
χ² / ndf 113.3 / 100
p0 −4.048e−13 ± 2.249e−13
pull
Entries 101
Mean 44.13
Std Dev 57.75
pull1D
Entries 101
Mean −0.0433
Std Dev 1.058

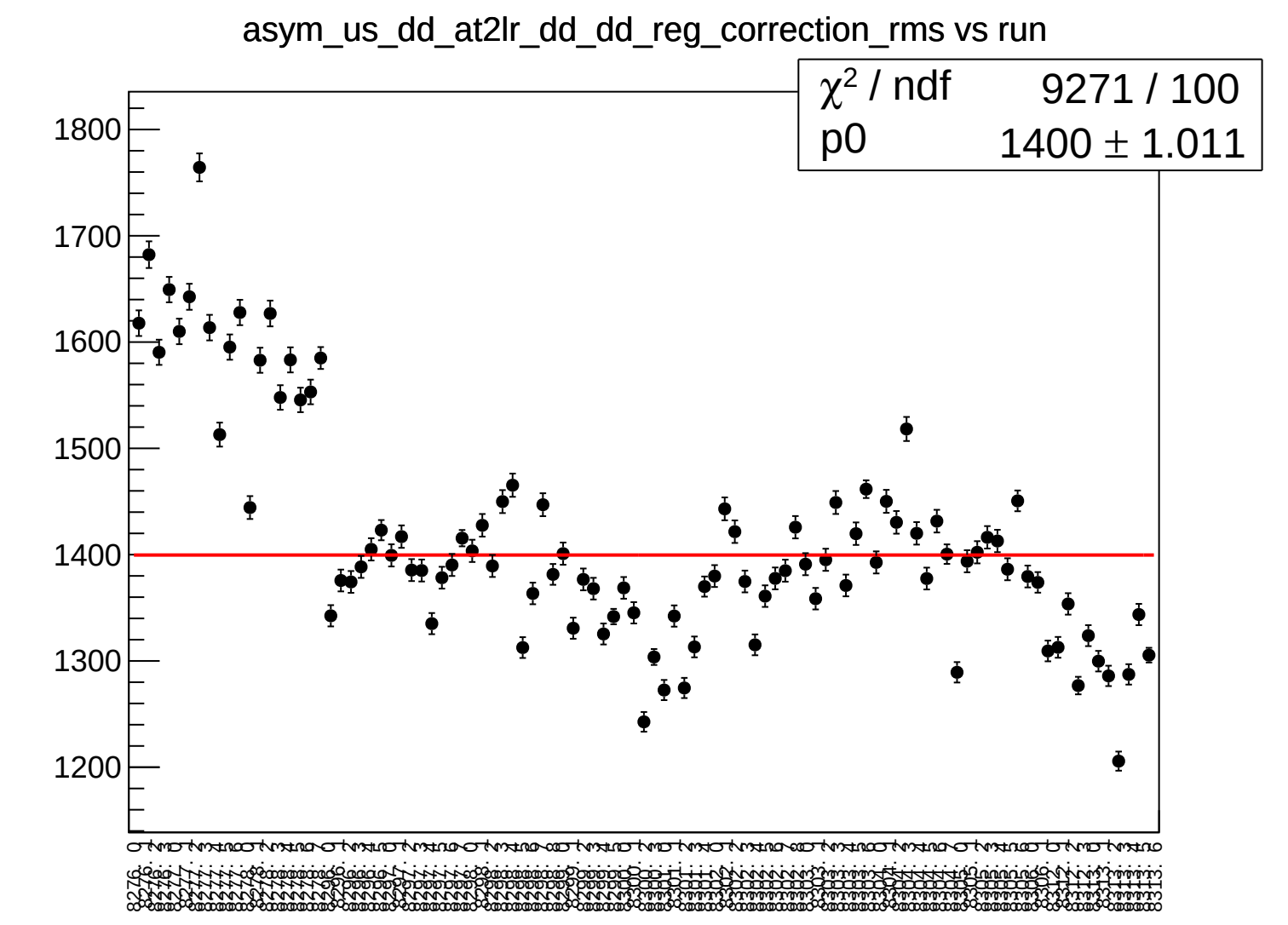

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.821e+05 / 100
p0 1.702e−10 ± 1.59e−13
1.4
1.2
1
0.8
0.6
0.4
0.2

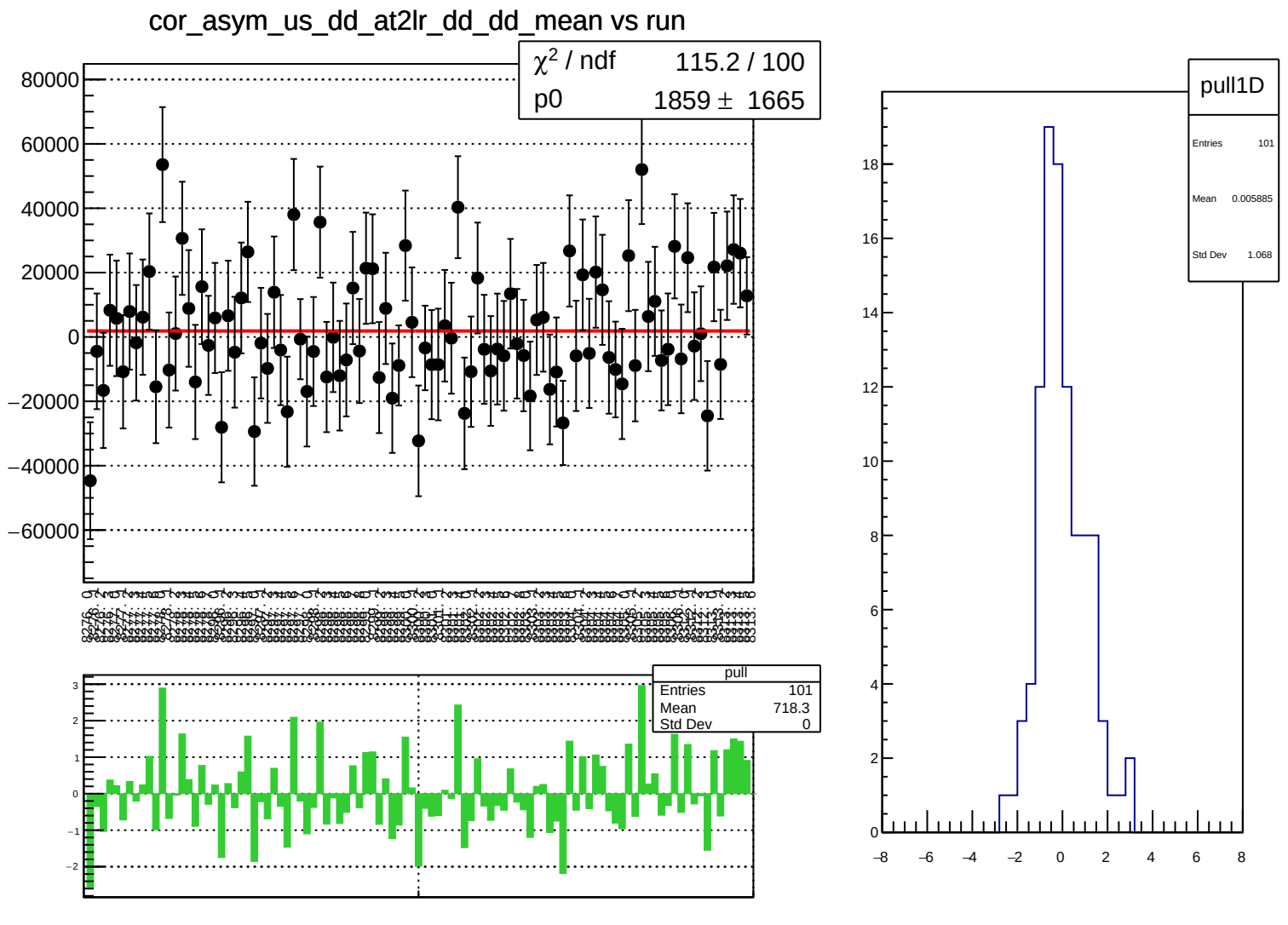

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 115.2 / 100
p0 1859 ± 1665
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean 718.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.005886
Std Dev 1.068
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

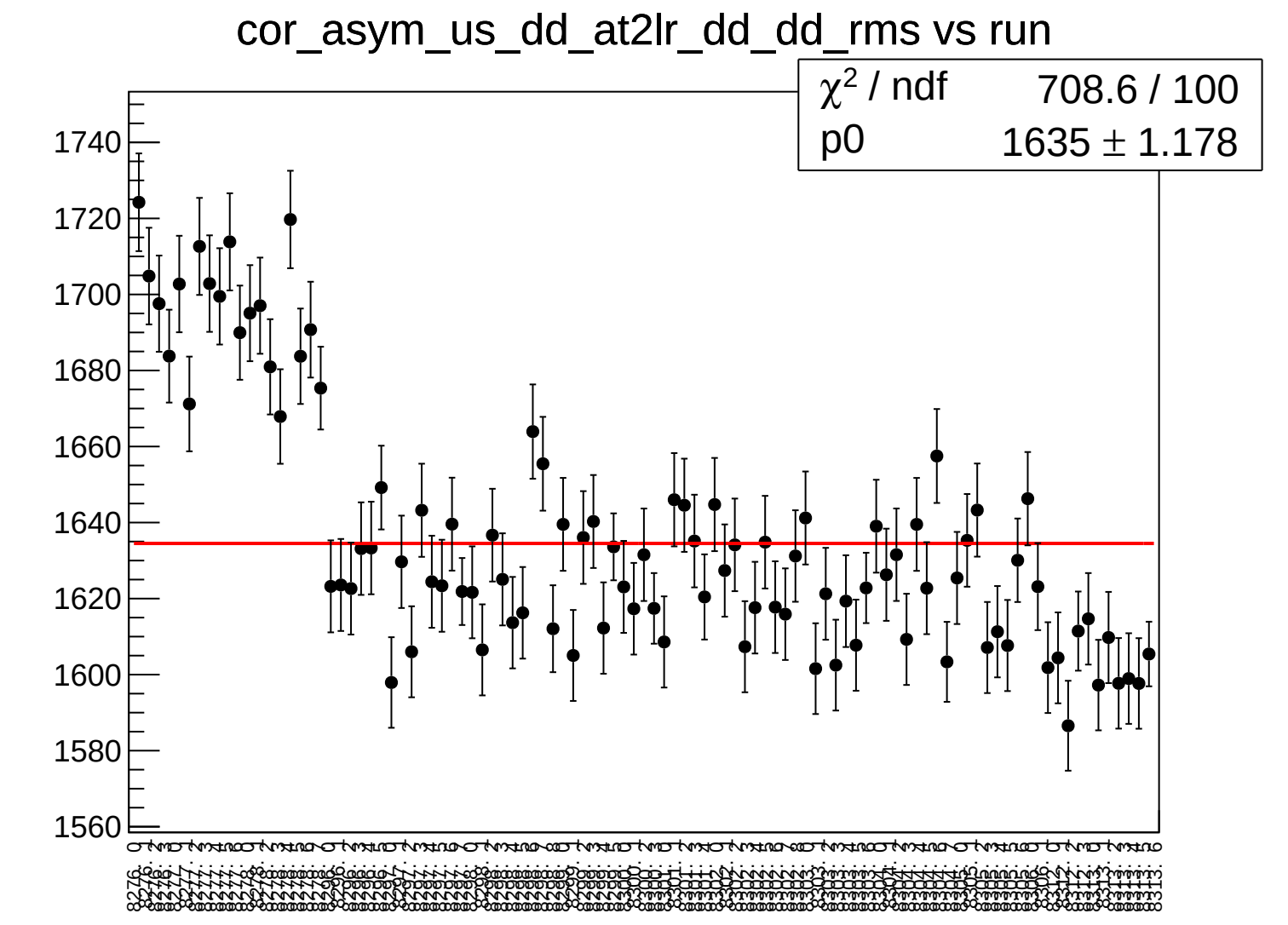

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 708.6 / 100
p0 1635 ± 1.178
1740
1720
1700
1680
1660
1640
1620
1600
1580
1560

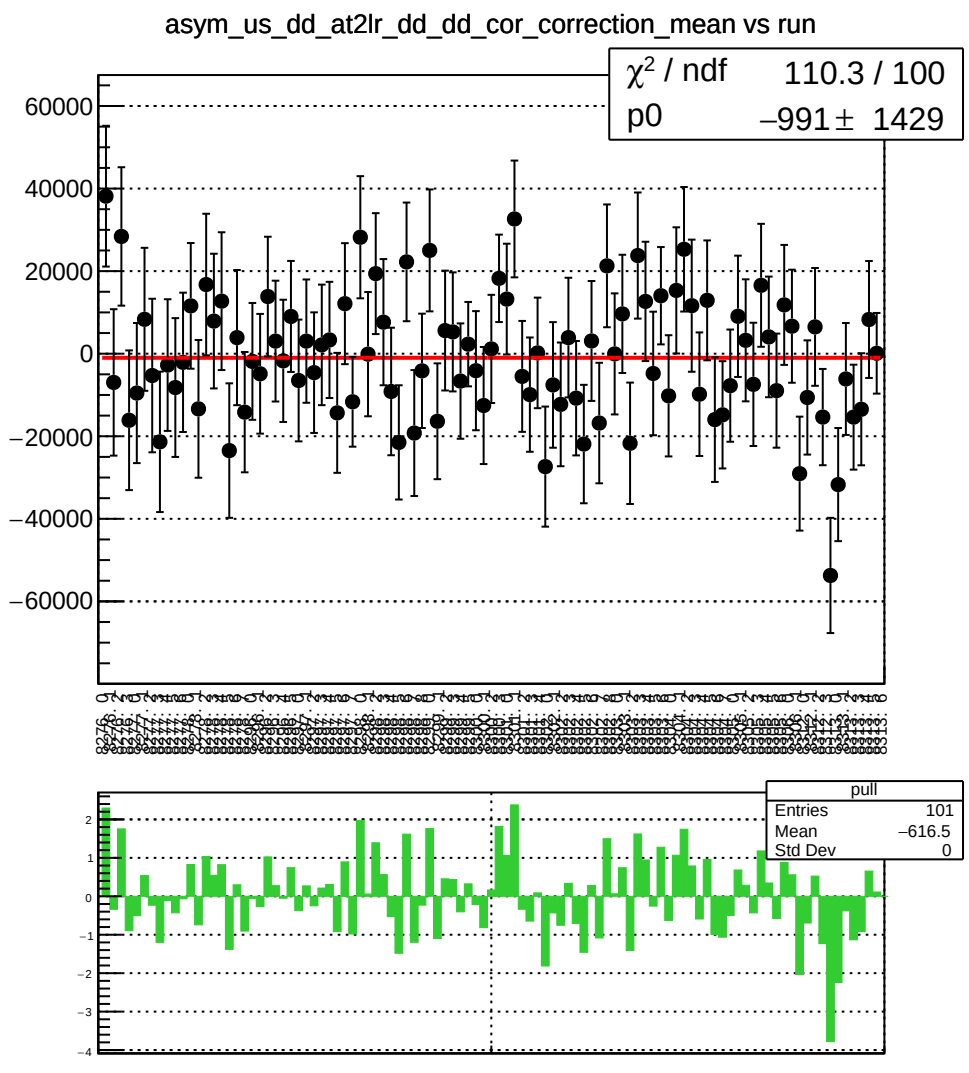

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 110.3 / 100
p0 −991.1± 1429
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −616.1
Std Dev 0
2
1
0
−1
−2
−3
−4

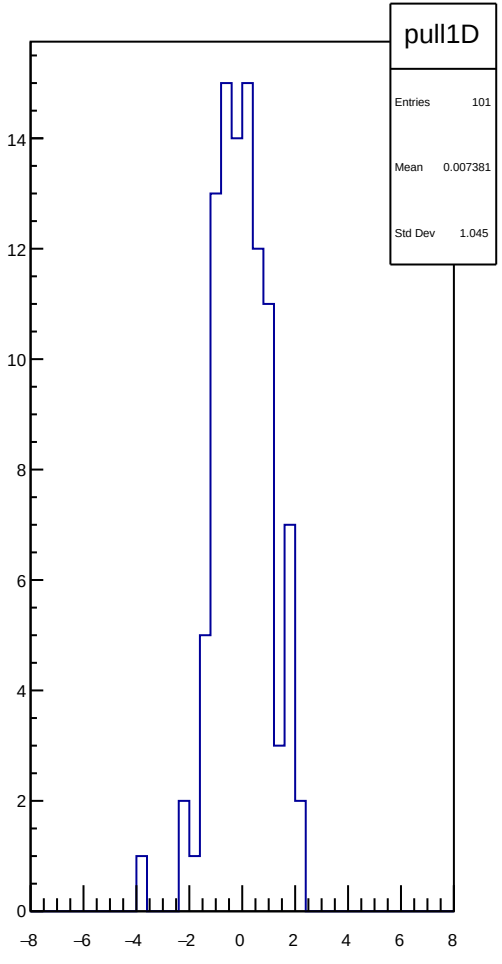

pull1D
Entries 101
Mean 0.007386
Std Dev 1.045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

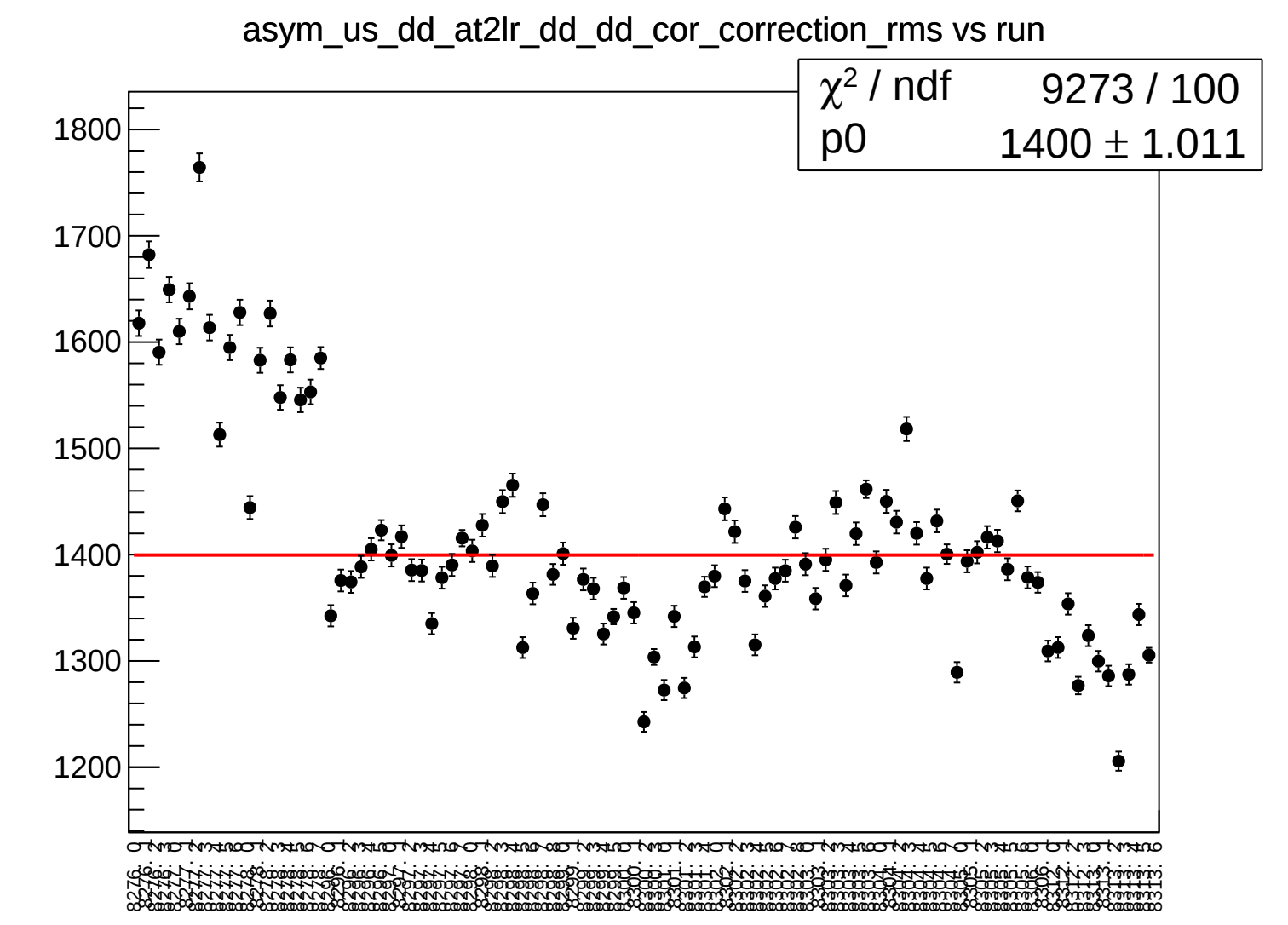

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 9271 / 100
p0 1400 ± 1.011
1800
1700
1600
1500
1400
1300
1200

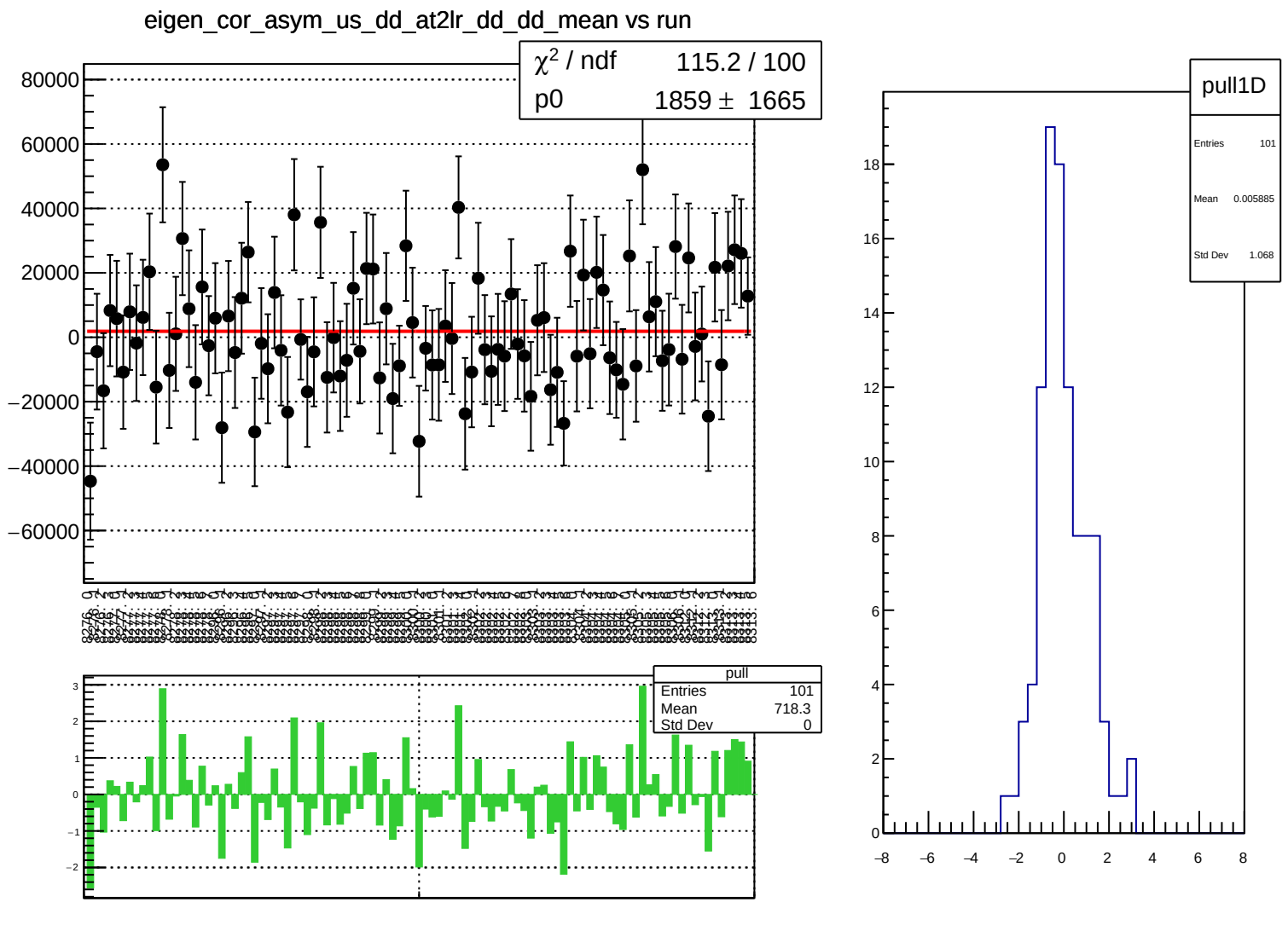

cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 115.2 / 100
p0 1859 ± 1665
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean 718.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.005885
Std Dev 1.068
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

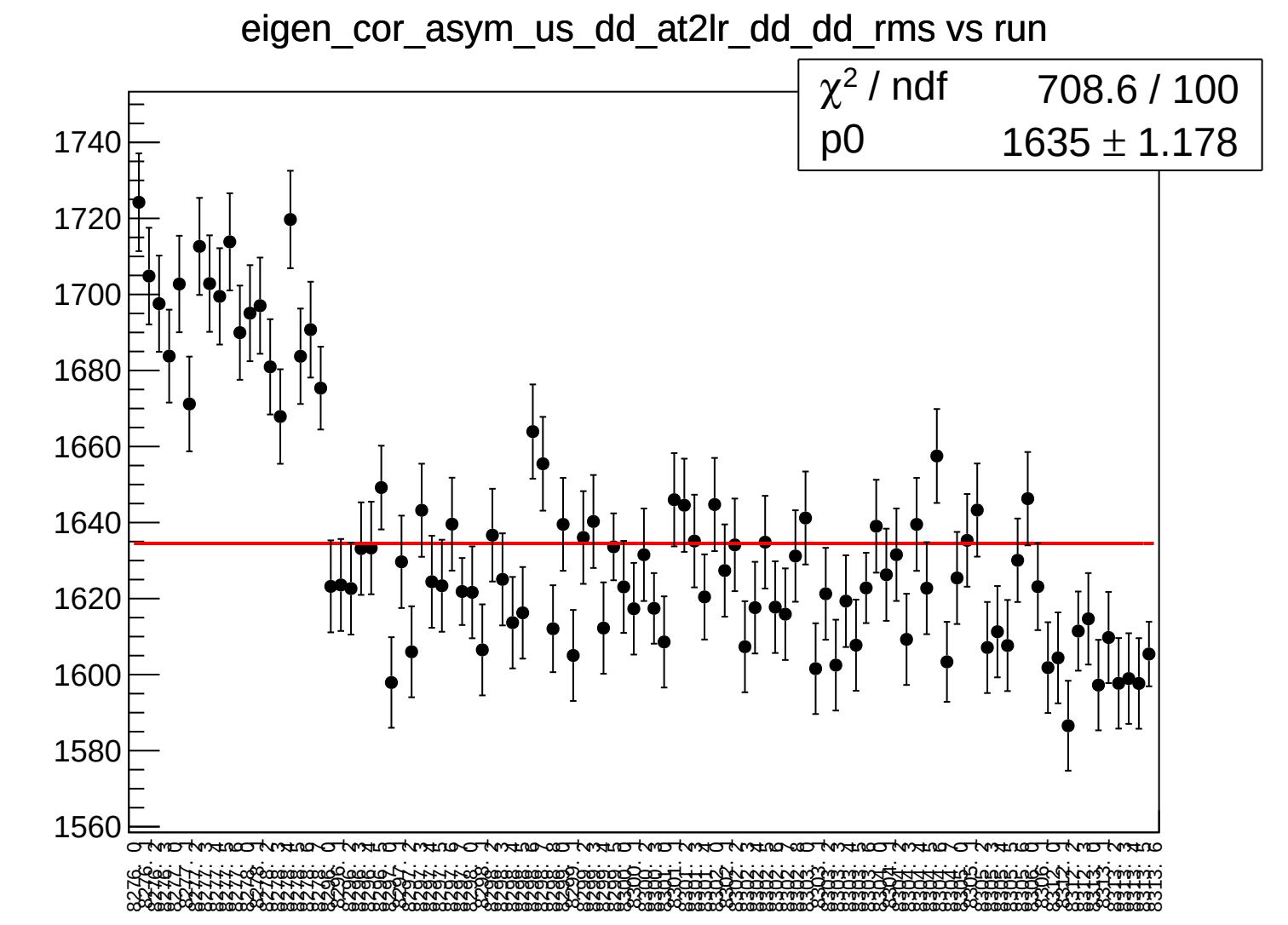

cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 708.6 / 100
p0 1635 ± 1.178
1740
1720
1700
1680
1660
1640
1620
1600
1580
1560

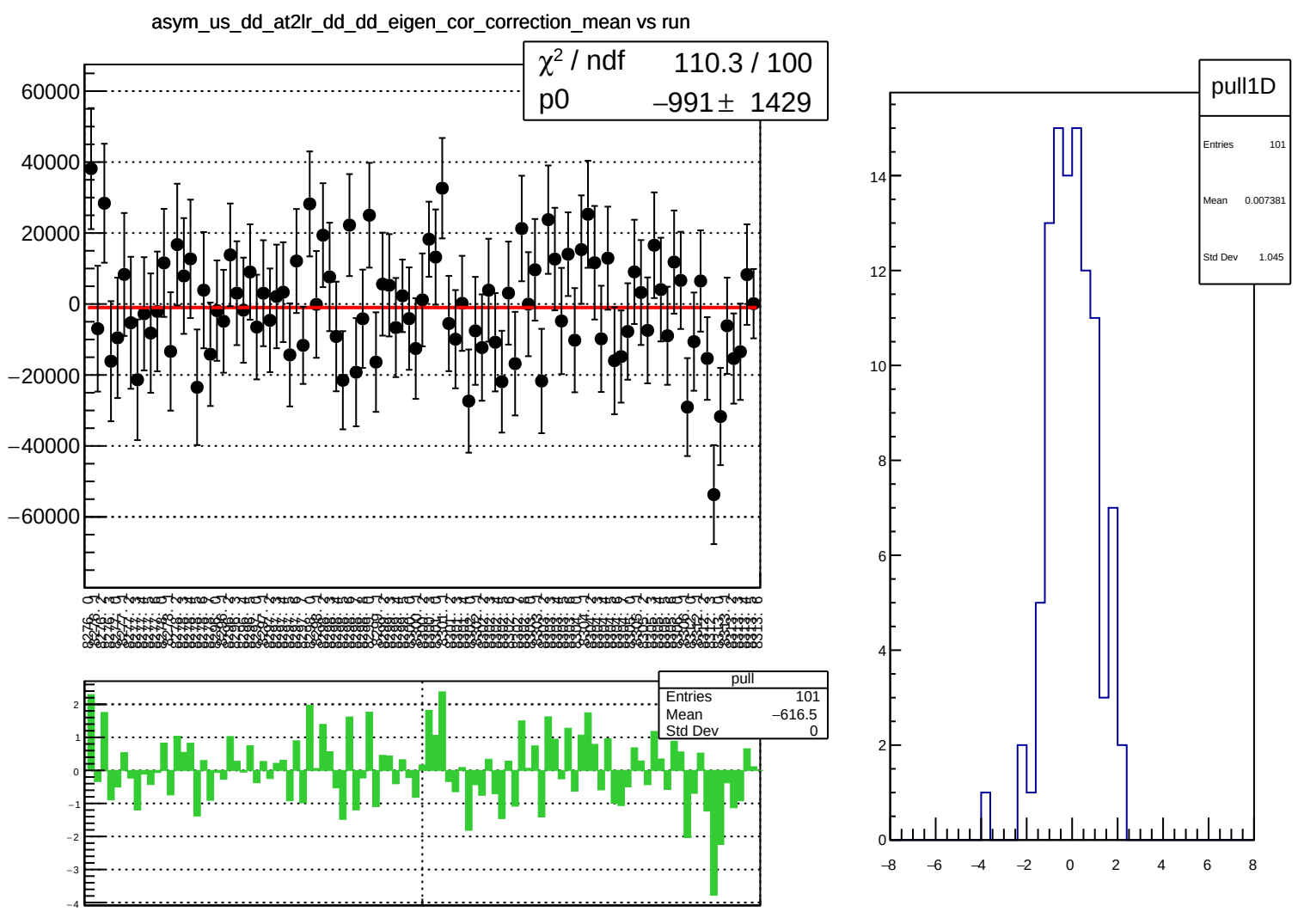

asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 110.3 / 100
p0 −991 ± 1429
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −616.5
Std Dev 0
2
1
0
−1
−2
−3
−4

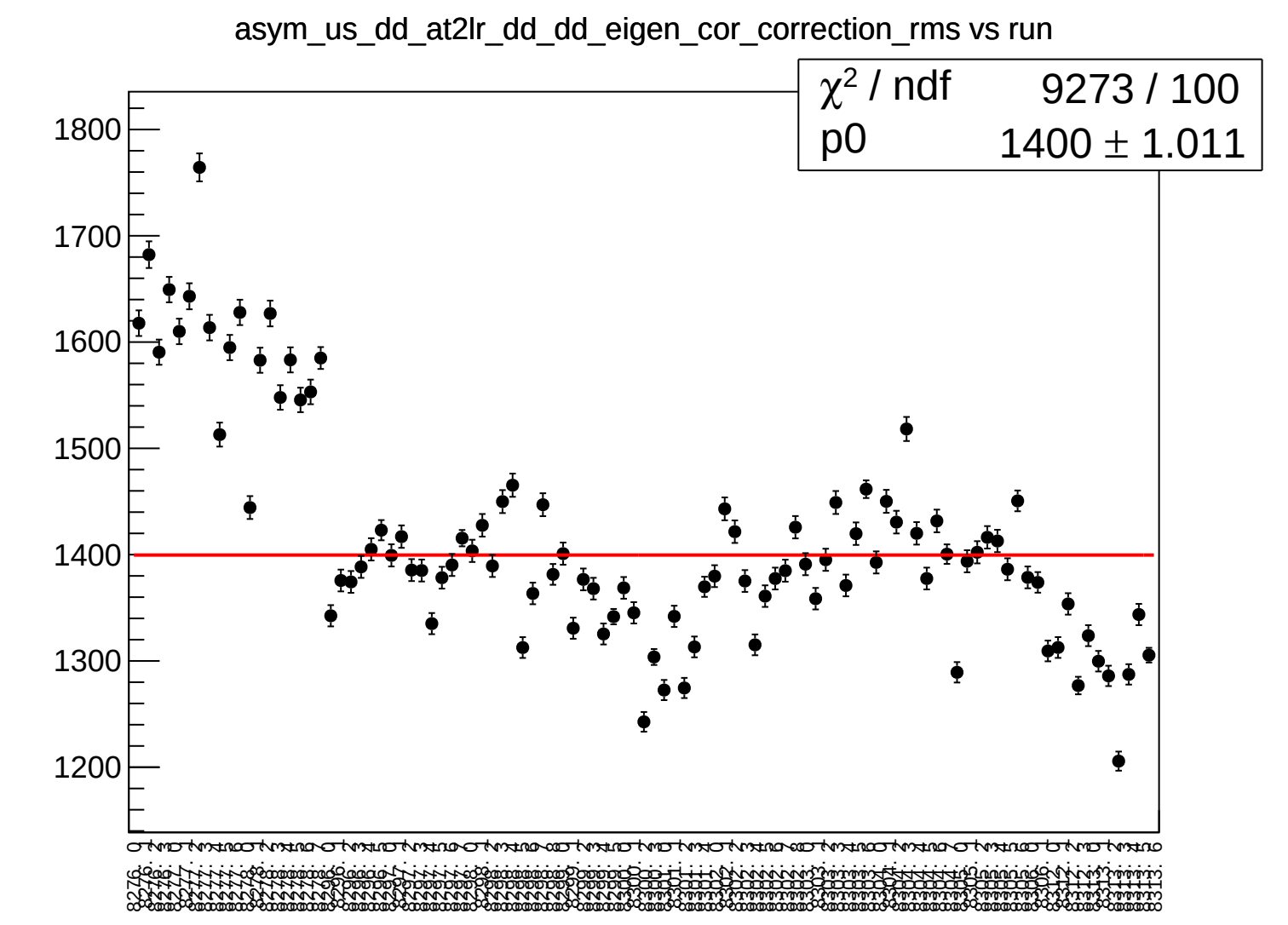

pull1D
Entries 101
Mean 0.007381
Std Dev 1.045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

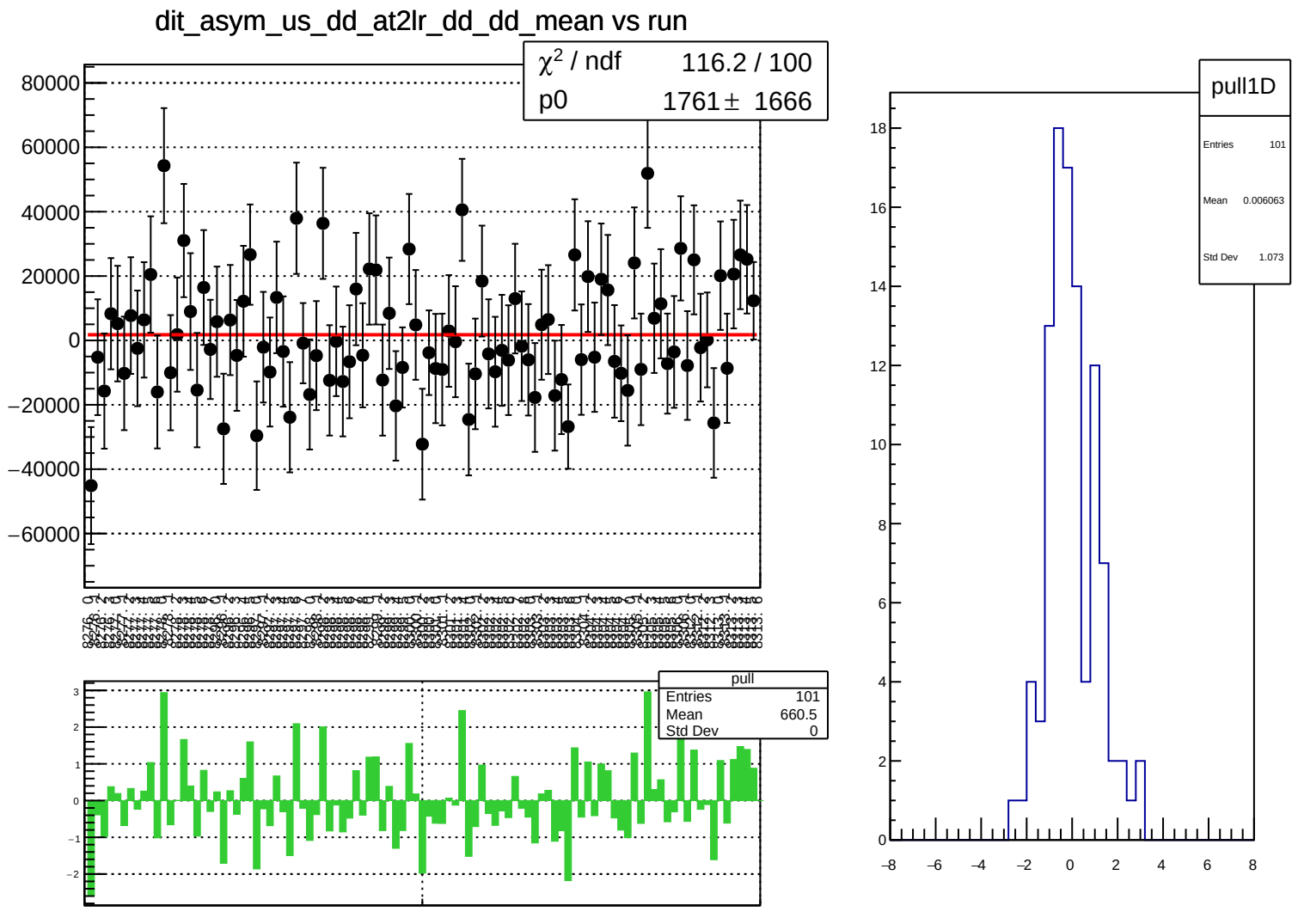

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 9273 / 100
p0 1400 ± 1.011
1800
1700
1600
1500
1400
1300
1200

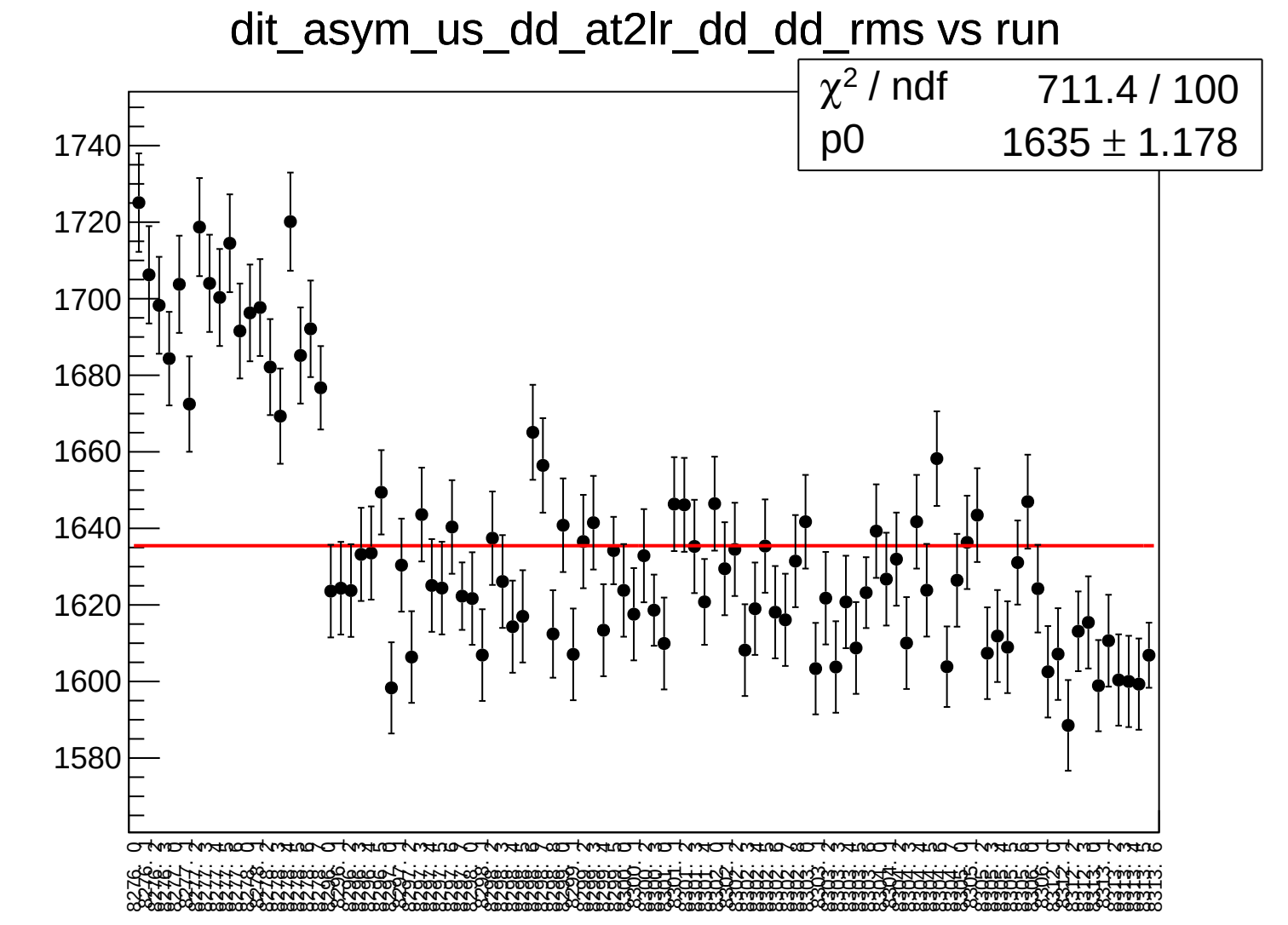

eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 115.2 / 100
p0 1859 ± 1665
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean 718.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.005885
Std Dev 1.068
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

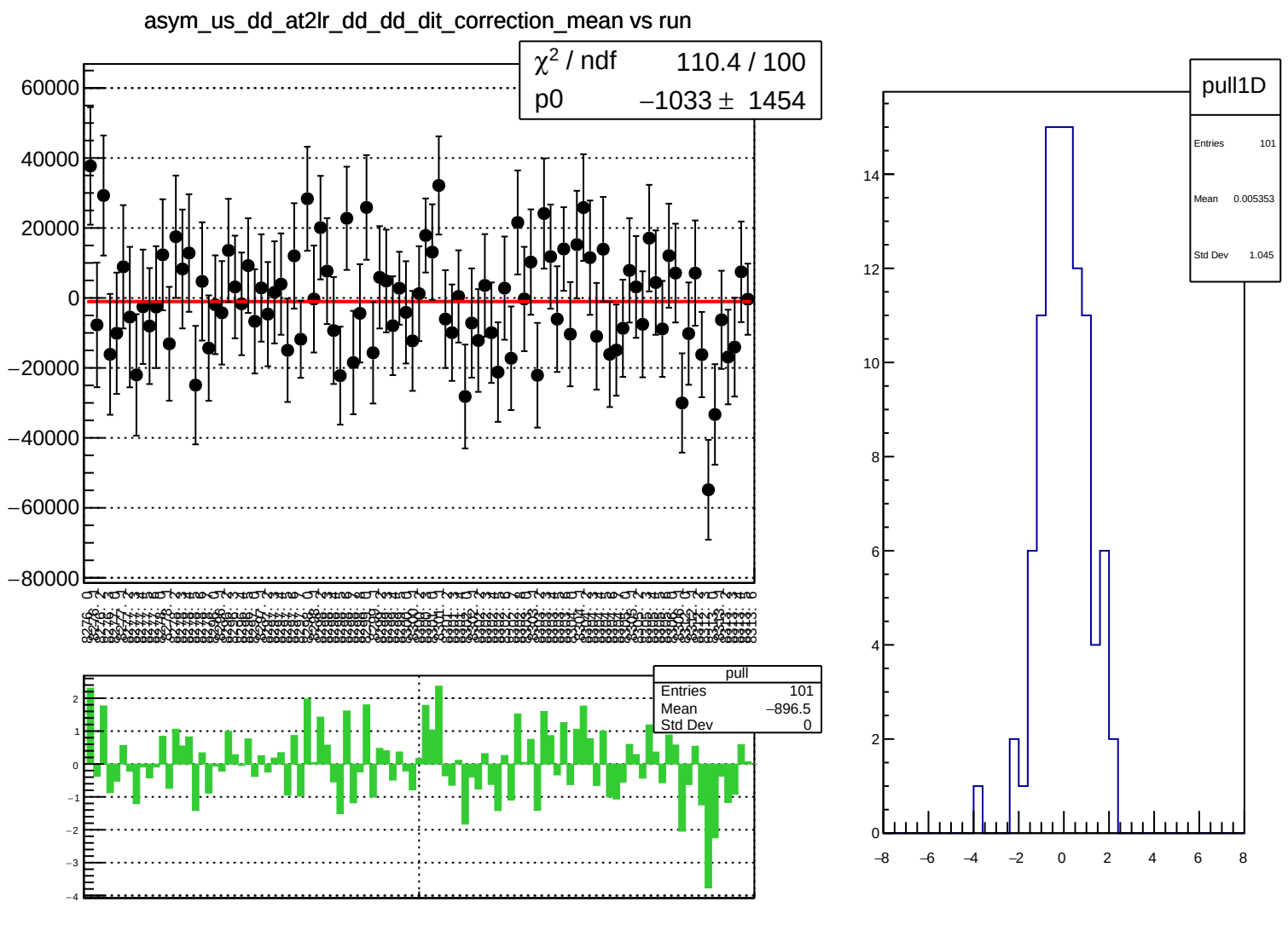

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 708.6 / 100
p0 1635 ± 1.178
1740
1720
1700
1680
1660
1640
1620
1600
1580
1560

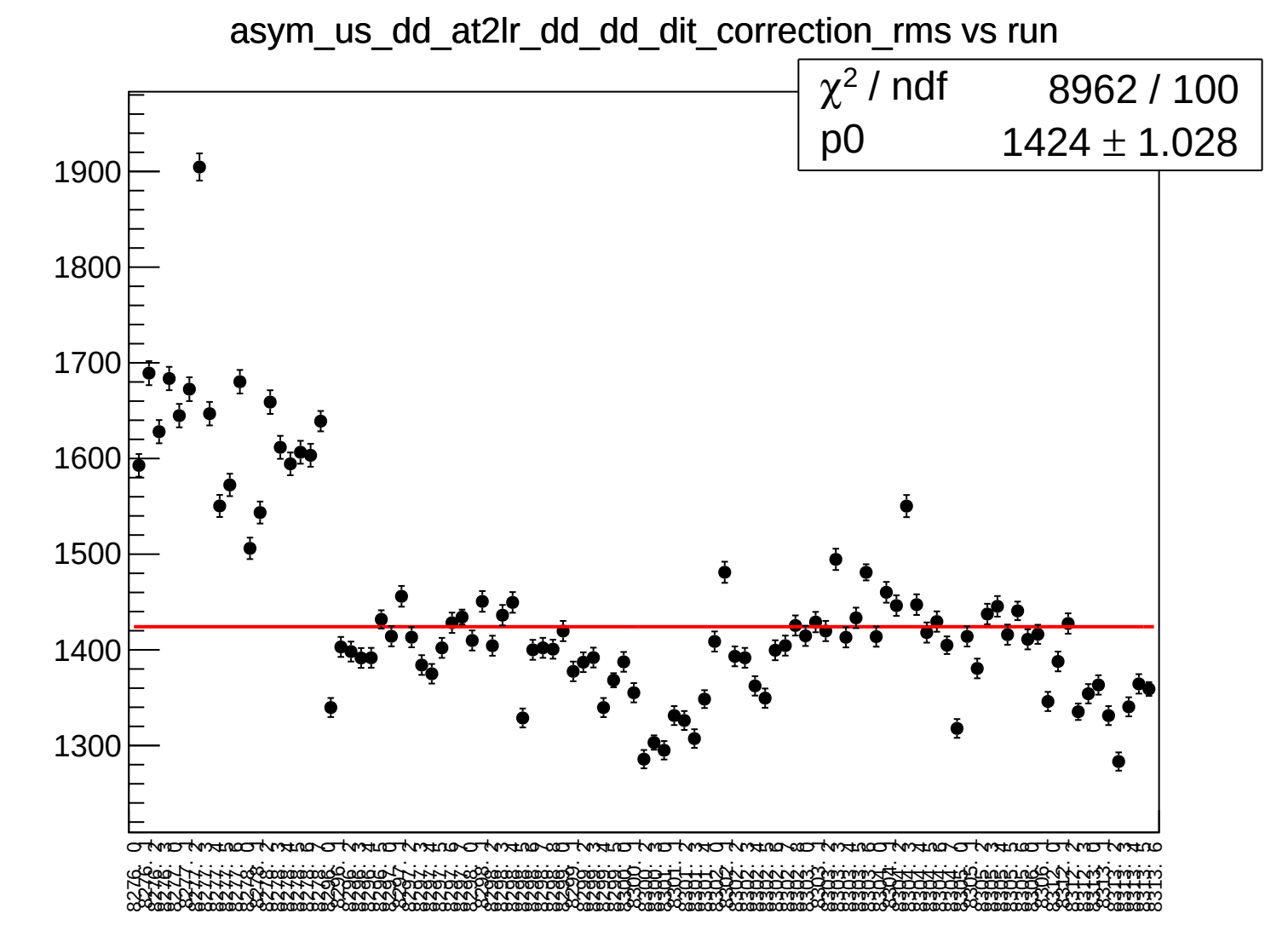

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 110.3 / 100
p0 −991 ± 1429
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −616.5
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 101
Mean 0.007381
Std Dev 1.045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

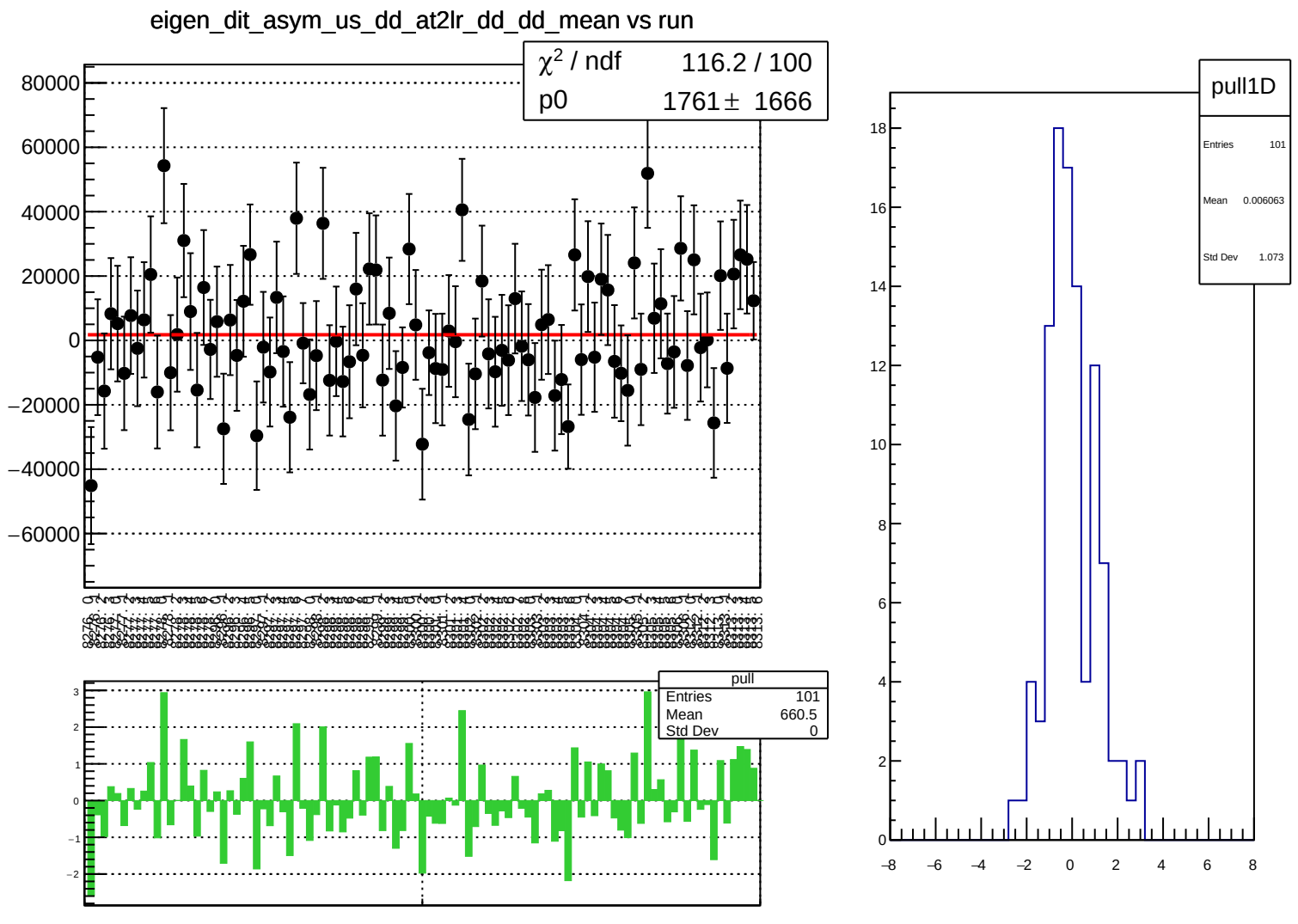

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 9273 / 100
p0 1400 ± 1.011
1800
1700
1600
1500
1400
1300
1200

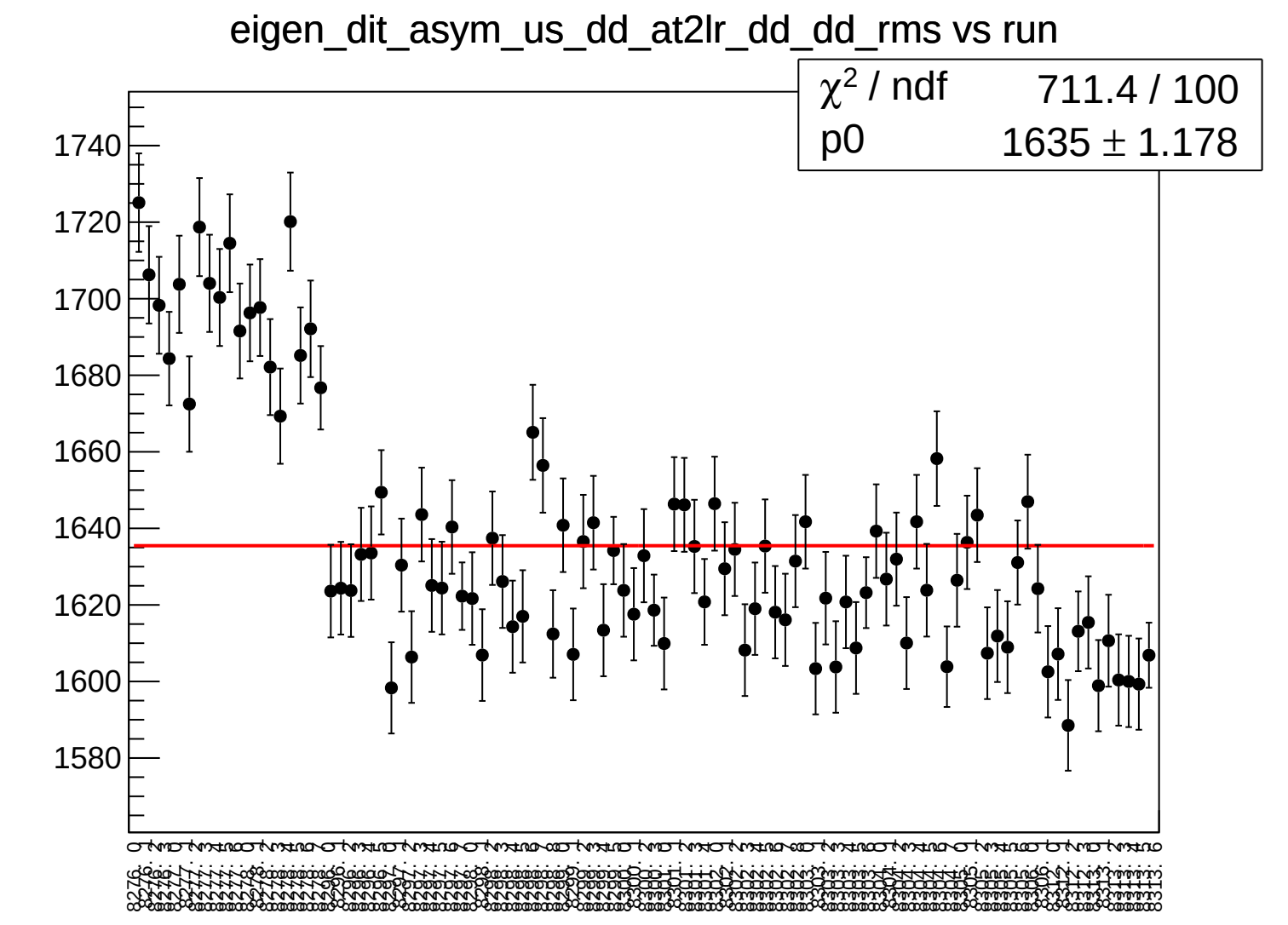

dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 116.2 / 100
p0 1761 ± 1666
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean 660.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.006063
Std Dev 1.073
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

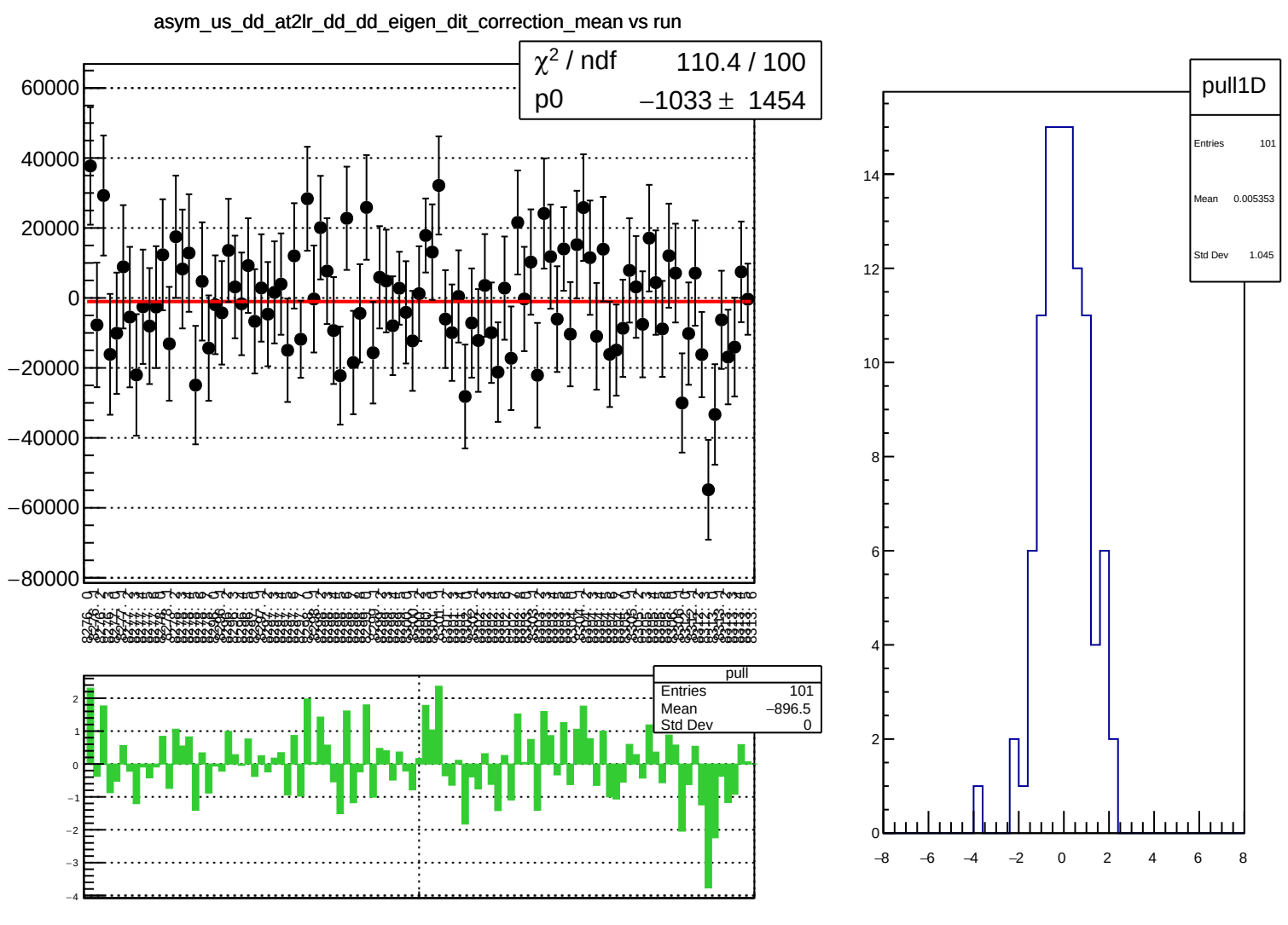

dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 711.4 / 100
p0 1635 ± 1.178
1740
1720
1700
1680
1660
1640
1620
1600
1580

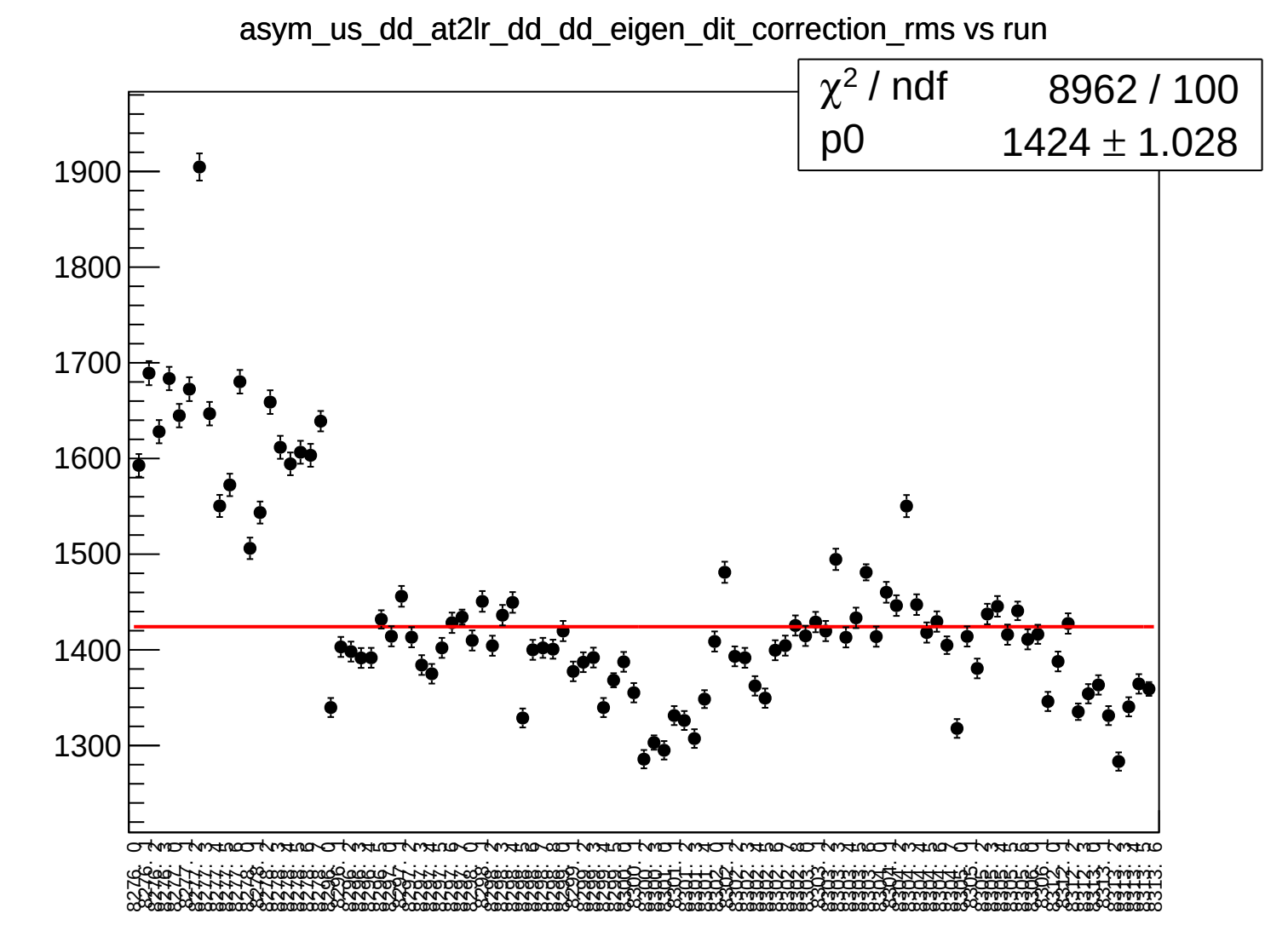

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 110.4 / 100
p0 −1033 ± 1454
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 101
Mean −896.5
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 101
Mean 0.005353
Std Dev 1.045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

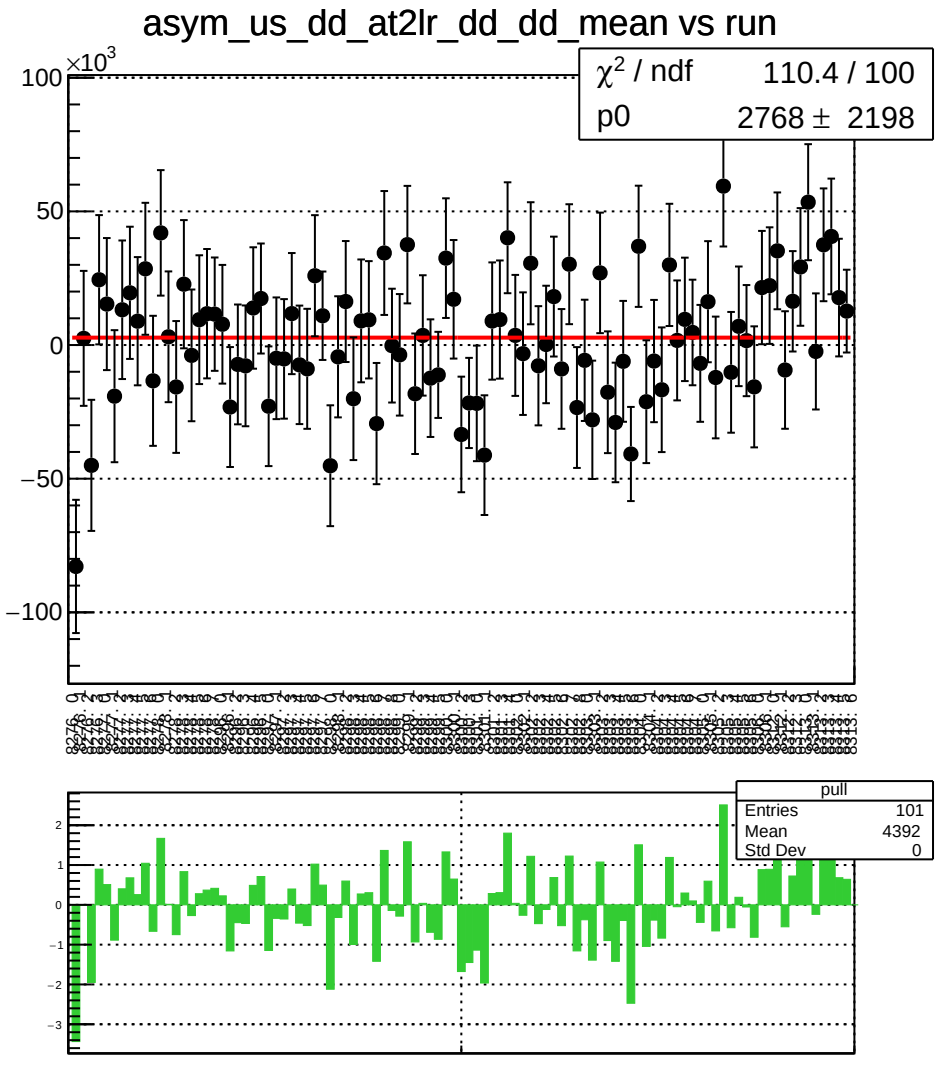

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 8962 / 100
p0 1424 ± 1.028
1900
1800
1700
1600
1500
1400
1300

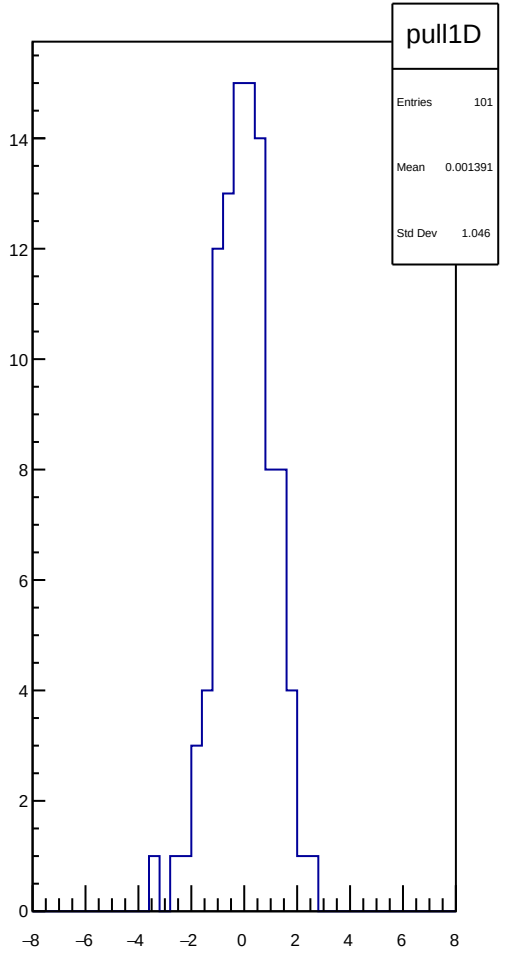

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 116.2 / 100
p0 1761 ± 1666
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean 660.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.006063
Std Dev 1.073
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

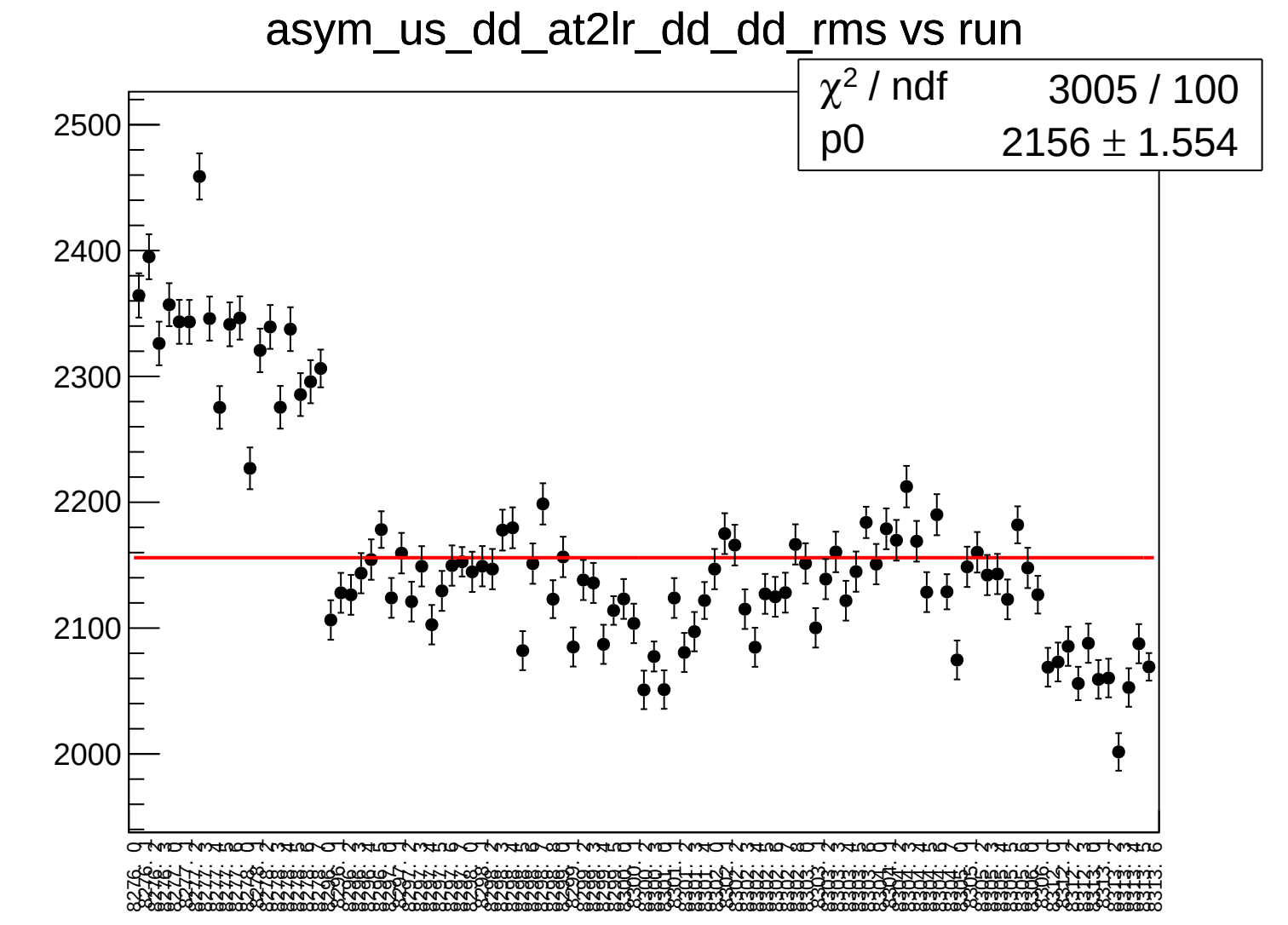

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 711.4 / 100
p0 1635 ± 1.178
1740
1720
1700
1680
1660
1640
1620
1600
1580

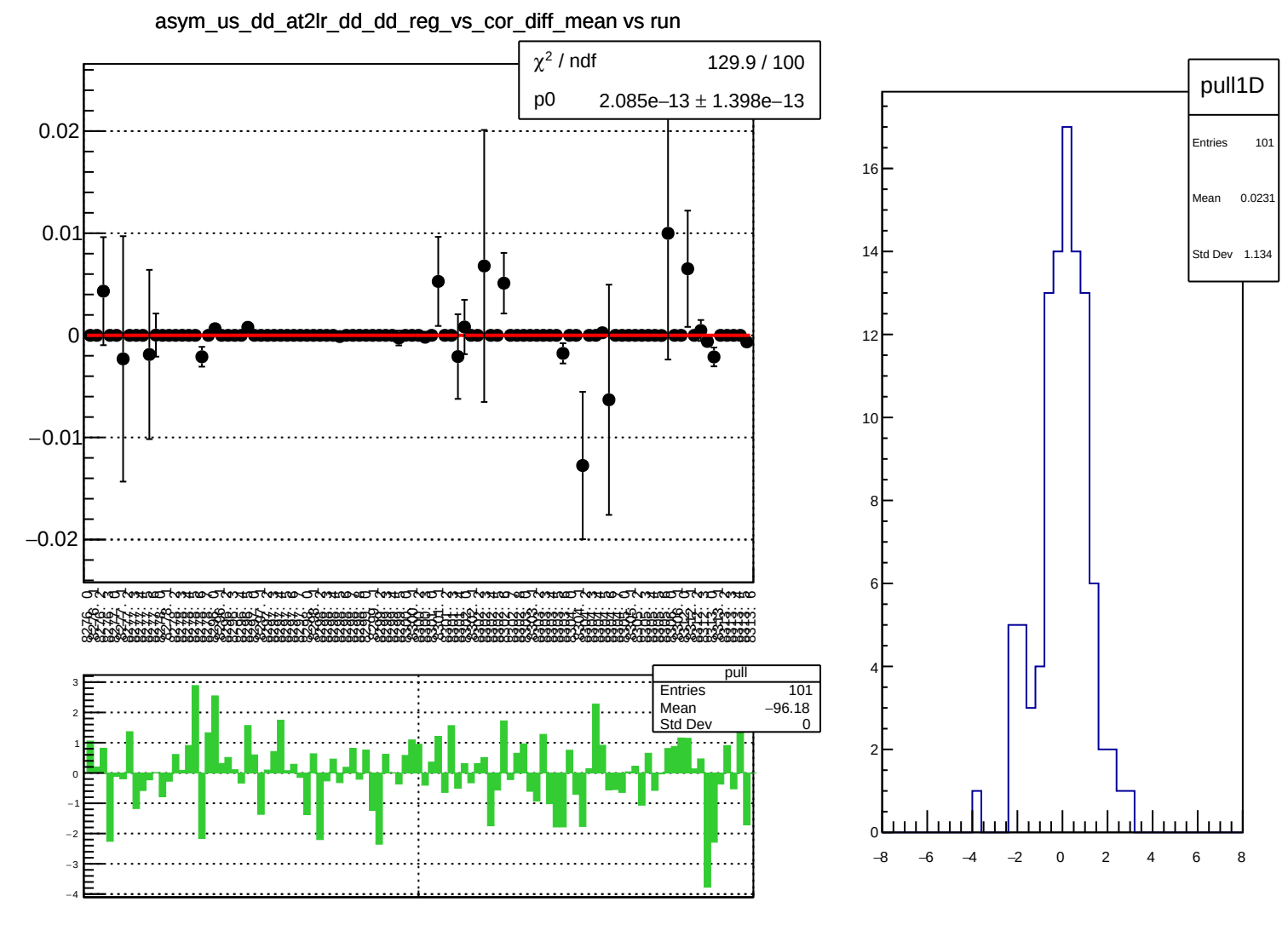

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 110.4 / 100
p0 −1033 ± 1454
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 101
Mean −896.5
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 101
Mean 0.005353
Std Dev 1.045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

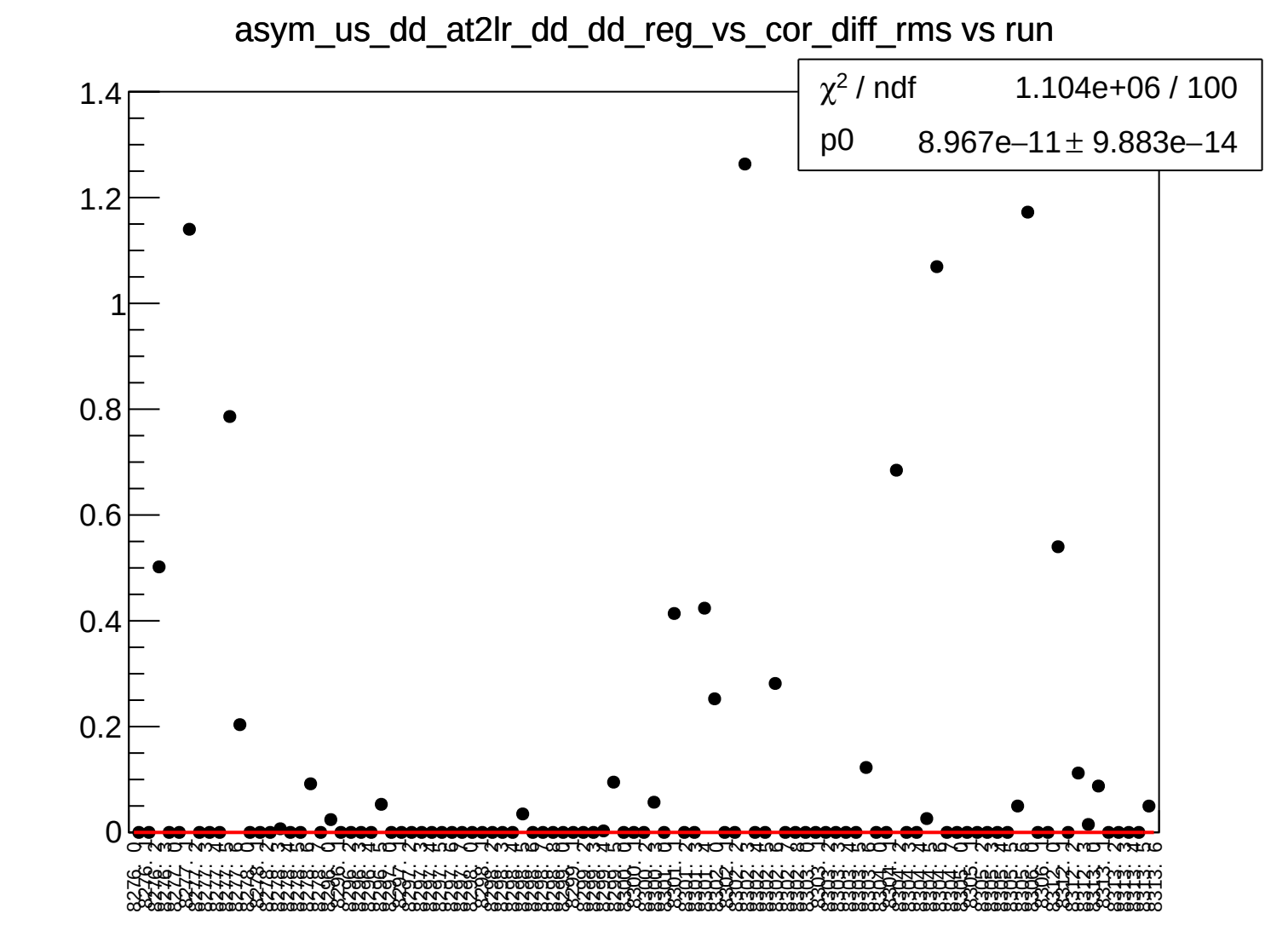

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 8962 / 100
p0 1424 ± 1.028
1900
1800
1700
1600
1500
1400
1300

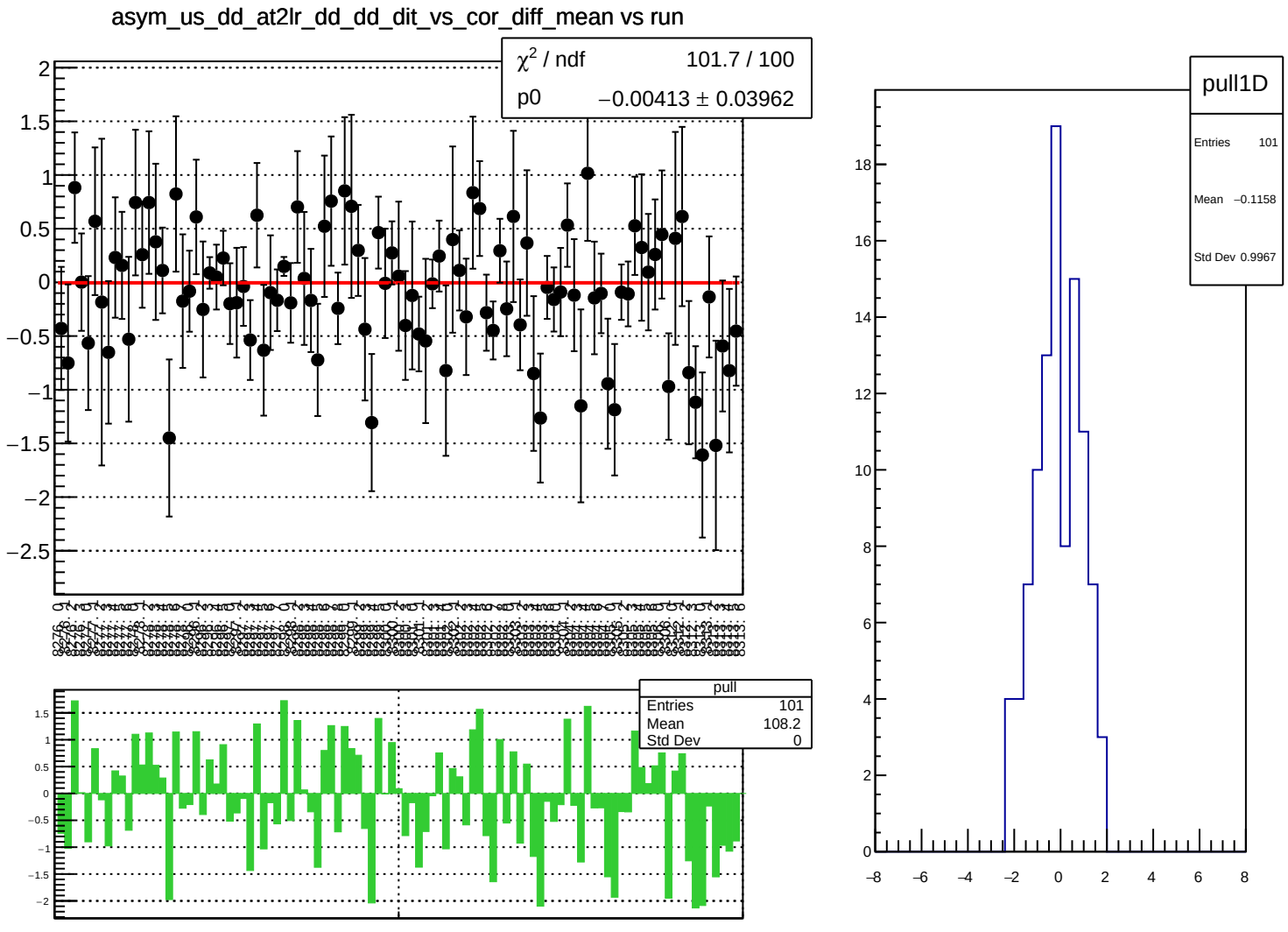

asym_us_dd_at2lr_dd_dd_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 110.4 / 100
p0 2768 ± 2198
pull
Entries 101
Mean 4392
Std Dev 0
2
1
0
−1
−2
−3

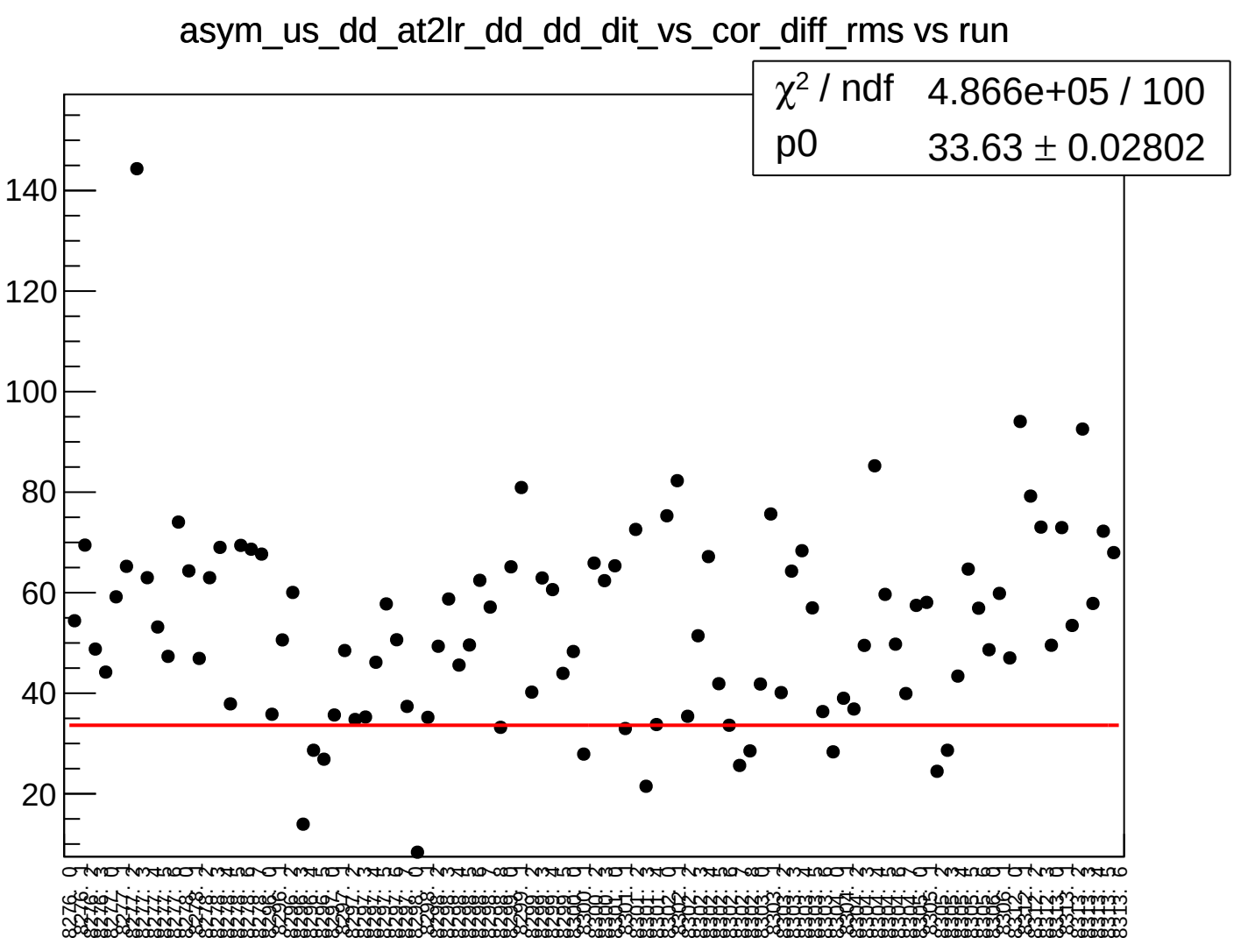

pull1D
Entries 101
Mean 0.001391
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

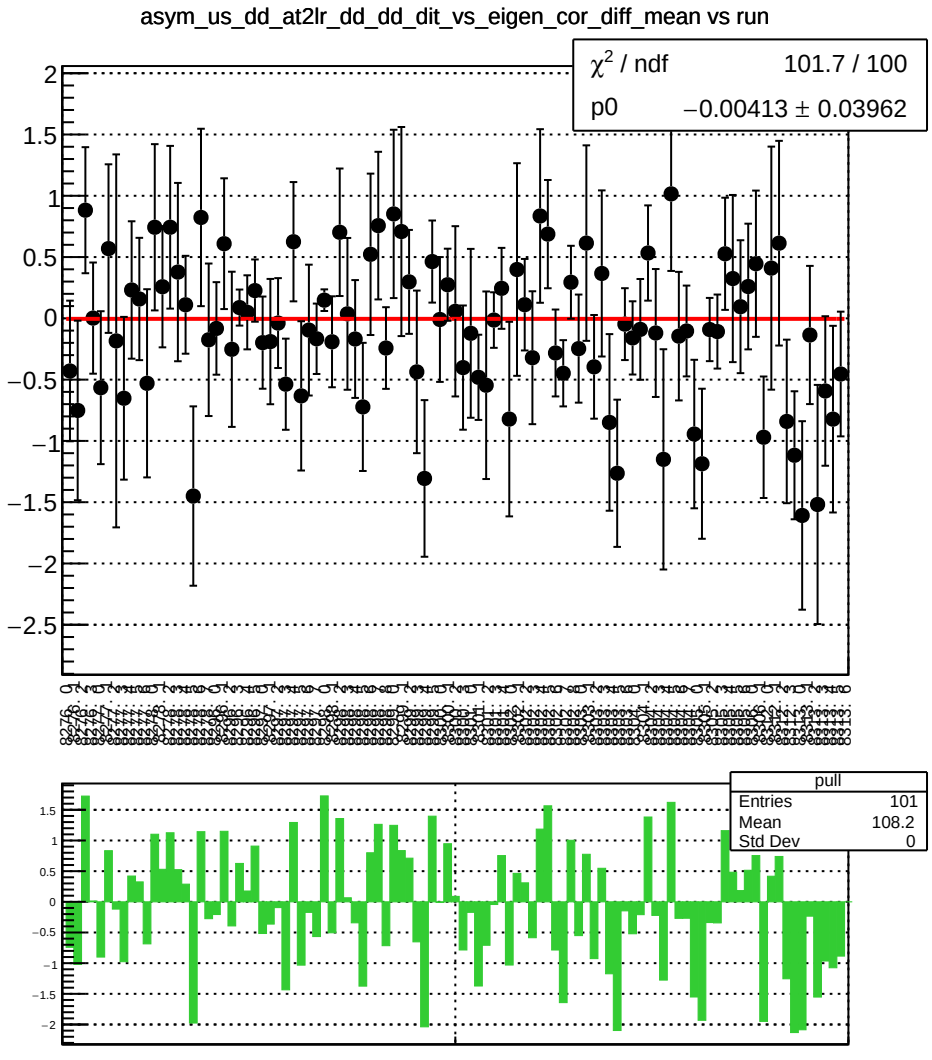

asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 3005 / 100
p0 2156 ± 1.554
2500
2400
2300
2200
2100
2000

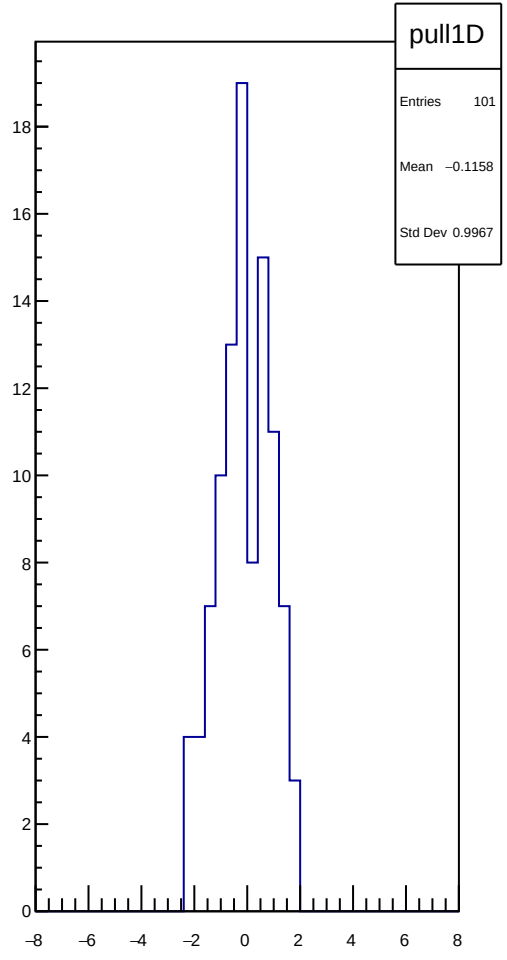

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 129.9 / 100
p0 2.085e−13 ± 1.398e−13
0.02
0.01
0
−0.01
−0.02
pull
Entries 101
Mean −96.18
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 101
Mean 0.0231
Std Dev 1.134
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

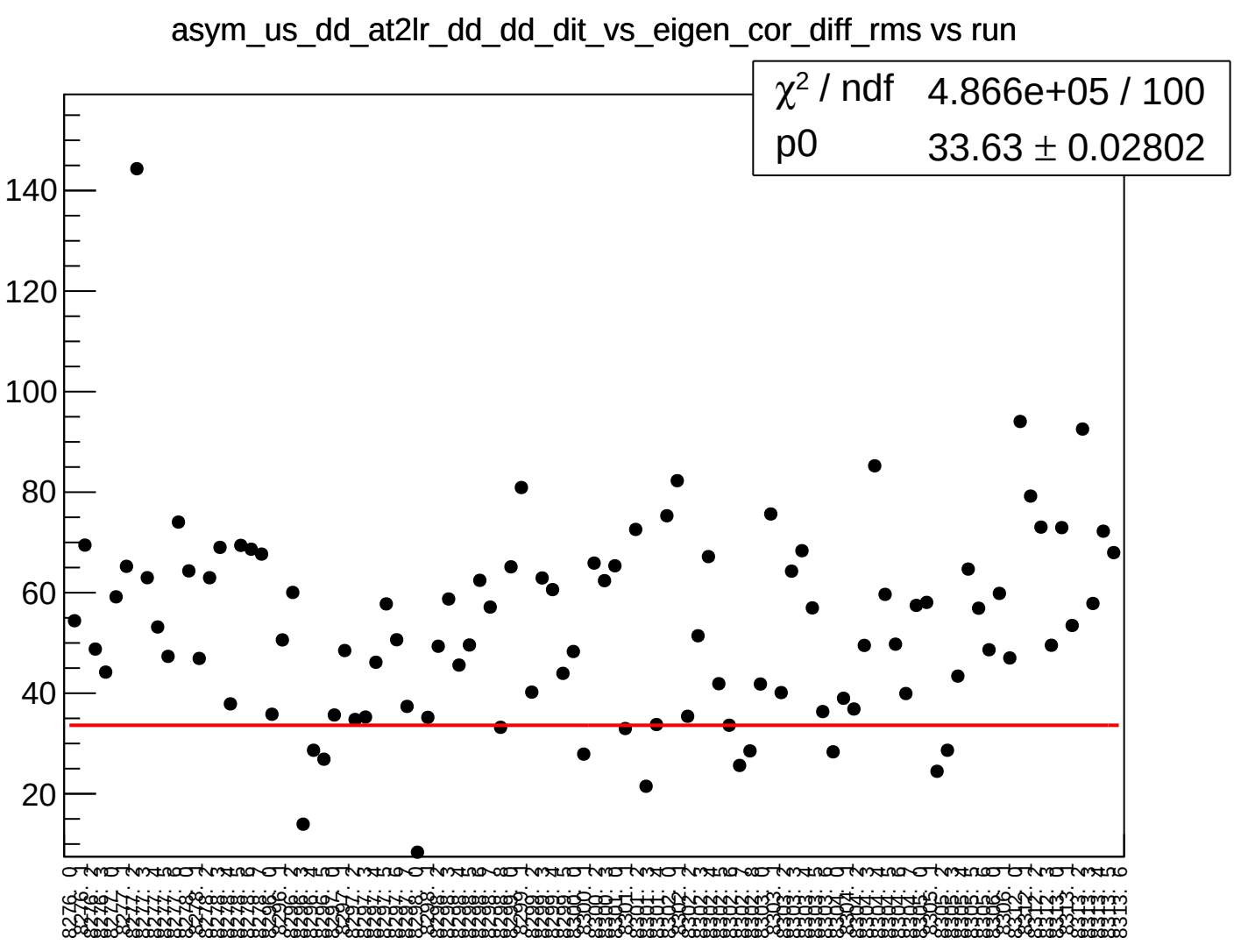

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.104e+06 / 100
p0 8.967e−11 ± 9.883e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

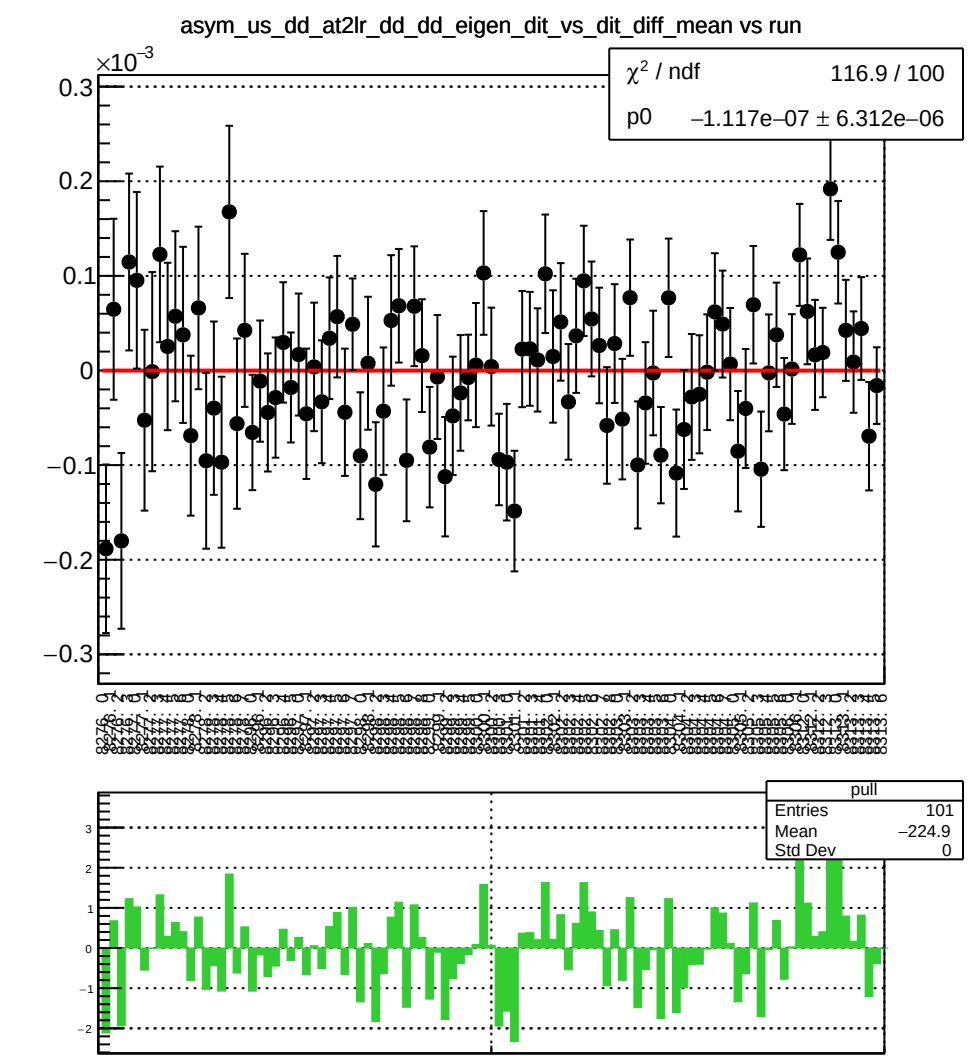

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 101.7 / 100
p0 −0.00413 ± 0.03962
pull
Entries 101
Mean 108.2
Std Dev 0
pull1D
Entries 101
Mean −0.1158
Std Dev 0.9967

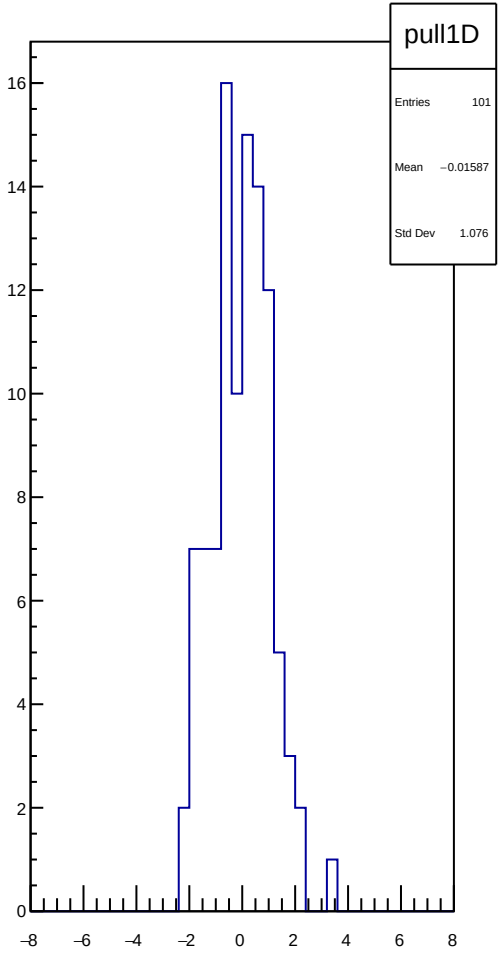

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.866e+05 / 100
p0 33.63 ± 0.02802
140
120
100
80
60
40
20

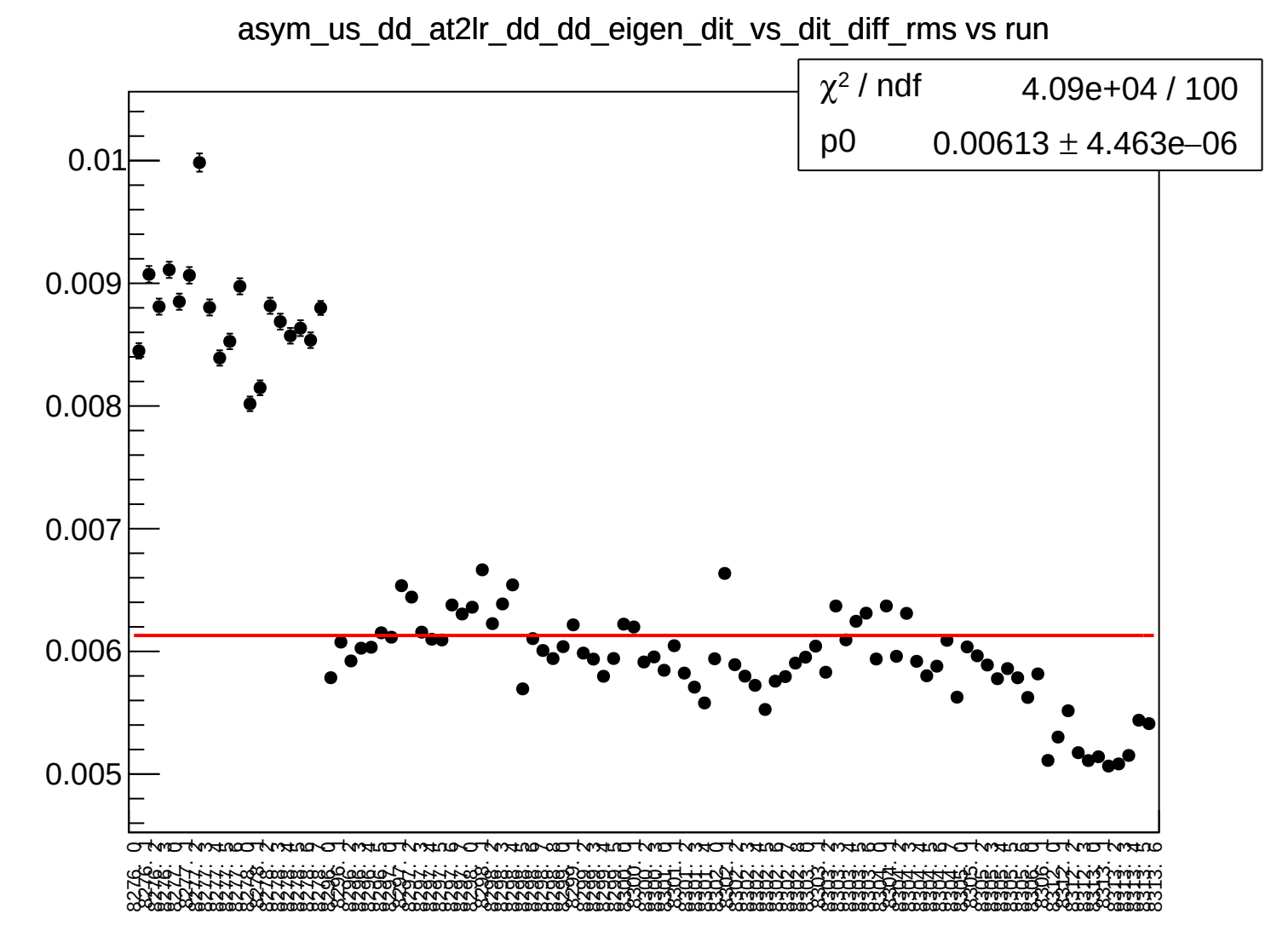

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.7 / 100
p0 −0.00413 ± 0.03962
pull
Entries 101
Mean 108.2
Std Dev 0

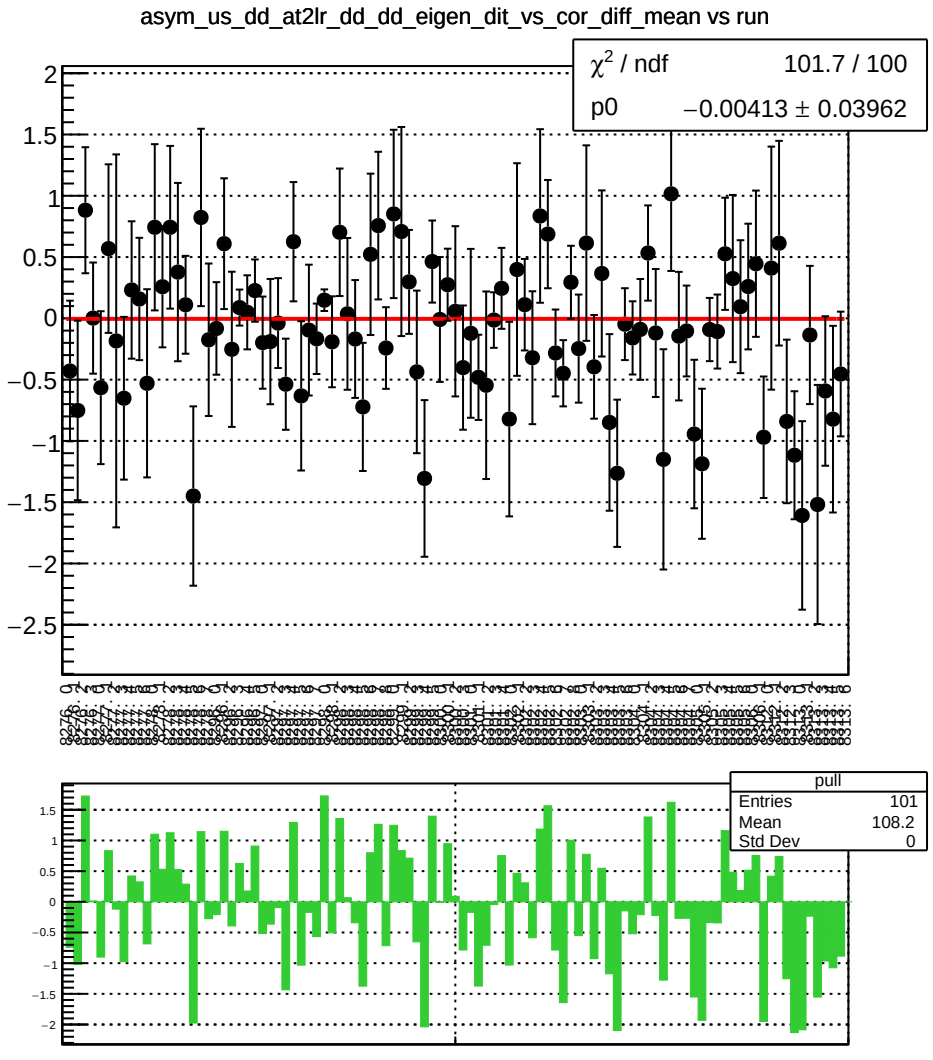

pull1D
Entries 101
Mean −0.1158
Std Dev 0.9967

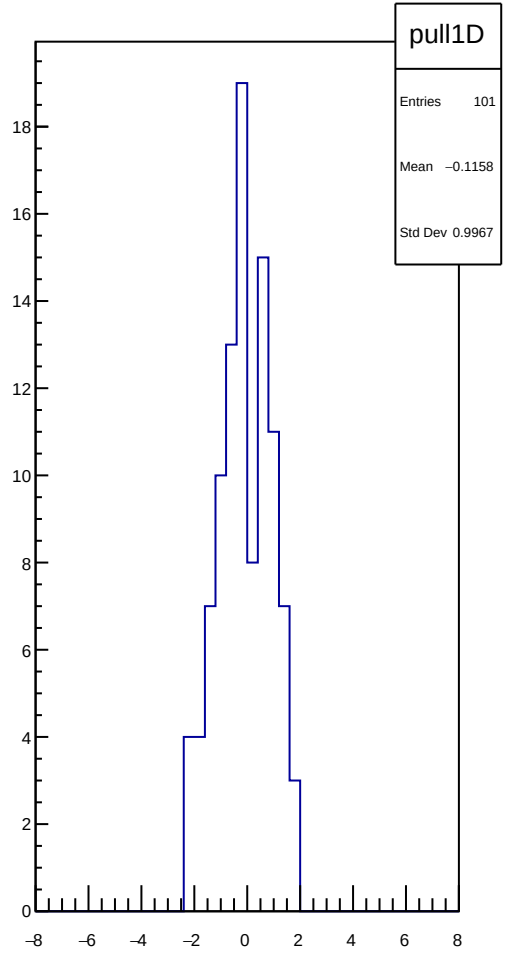

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.866e+05 / 100
p0 33.63 ± 0.02802
140
120
100
80
60
40
20

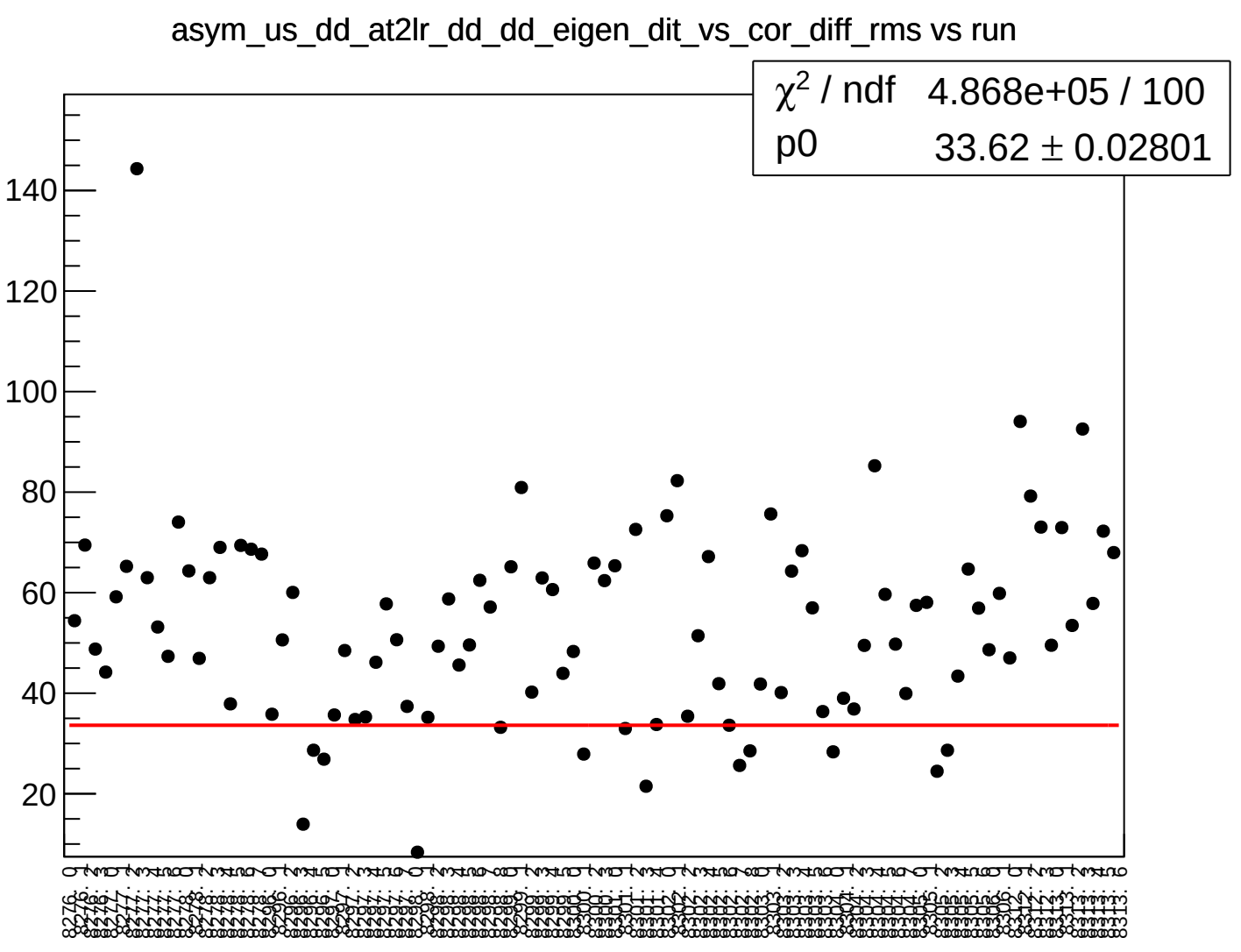

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 116.9 / 100
p0 −1.117e−07 ± 6.312e−06
pull
Entries 101
Mean −224.9
Std Dev 0

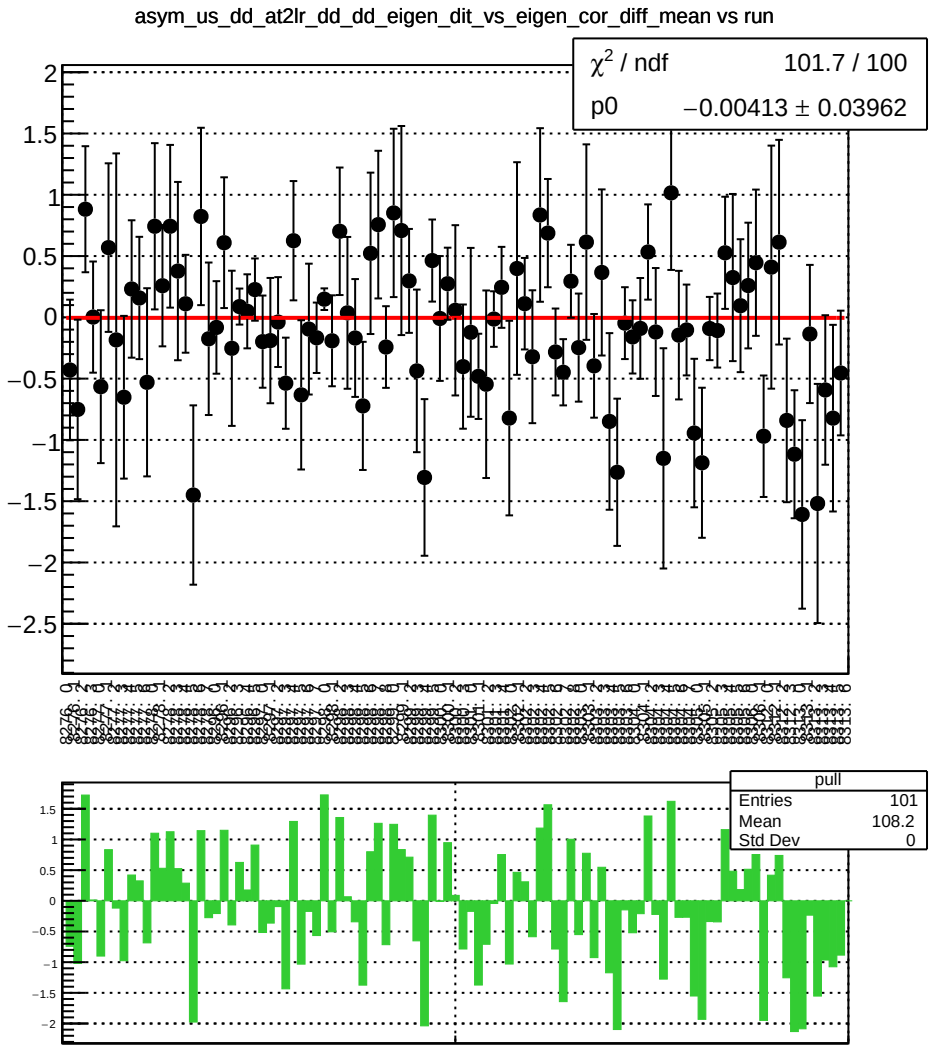

pull1D
Entries 101
Mean −0.01587
Std Dev 1.076

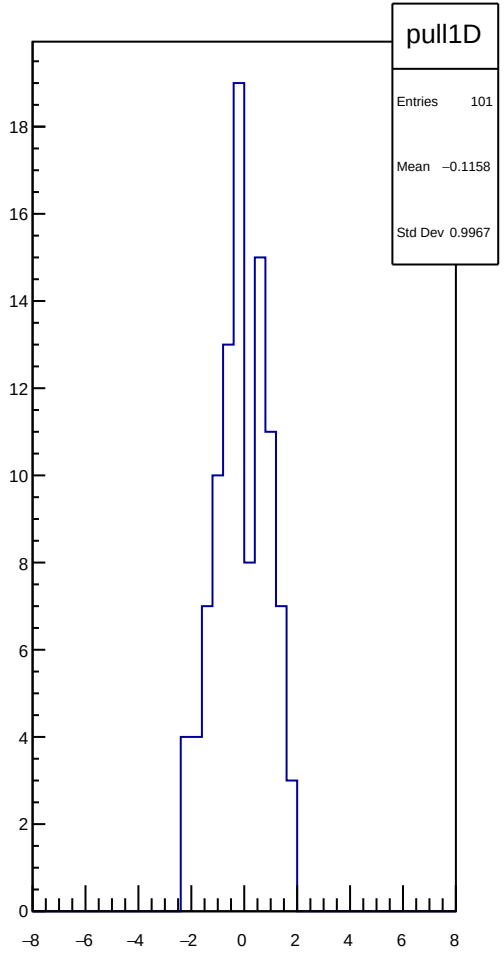

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.09e+04 / 100
p0 0.00613 ± 4.463e−06
0.01
0.009
0.008
0.007
0.006
0.005

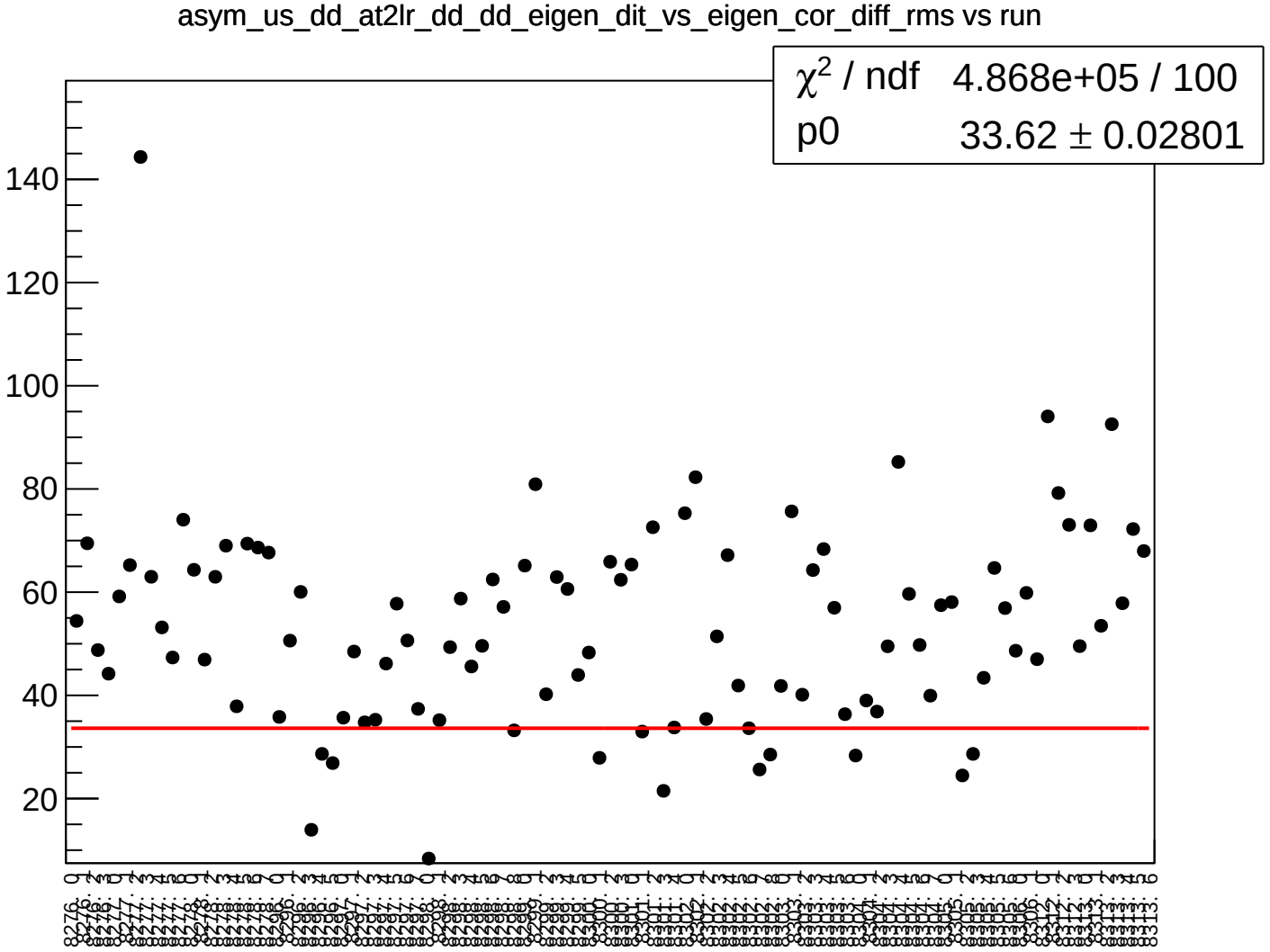

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101.7 / 100
p0 −0.00413 ± 0.03962
pull
Entries 101
Mean 108.2
Std Dev 0

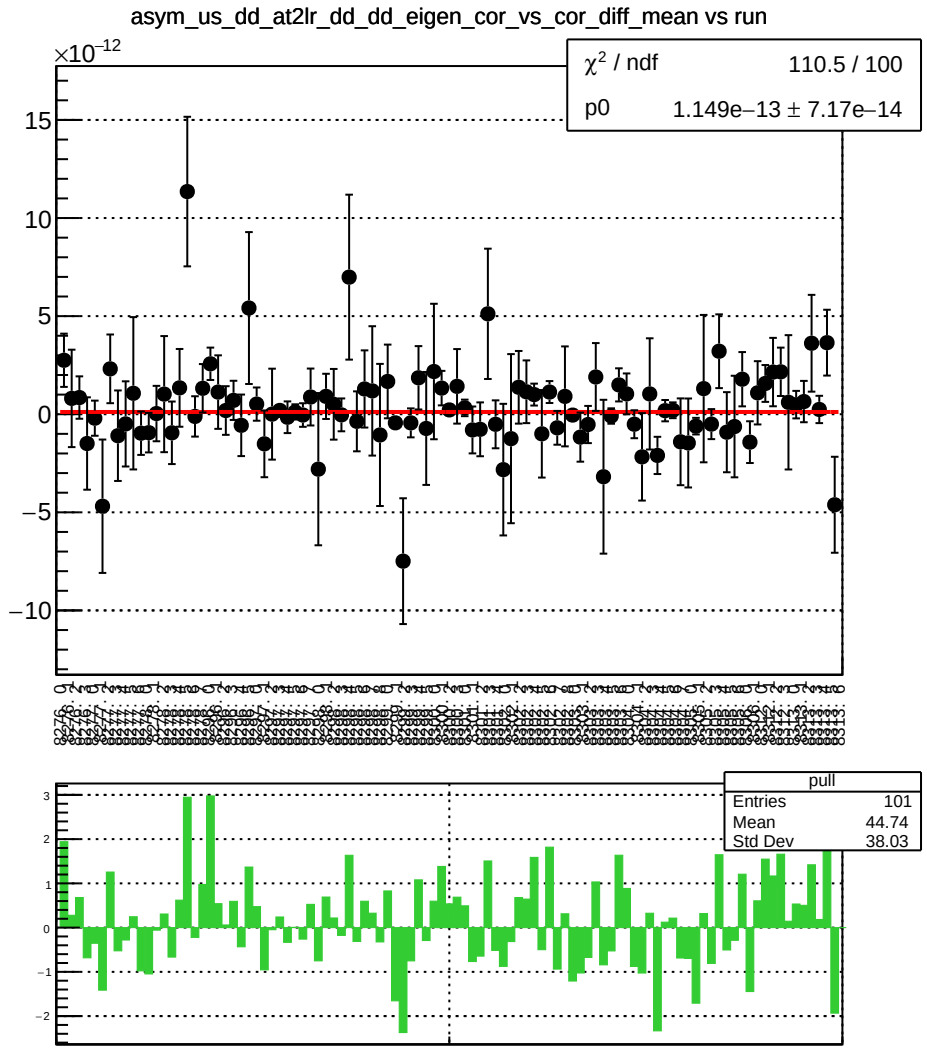

pull1D
Entries 101
Mean −0.1158
Std Dev 0.9967

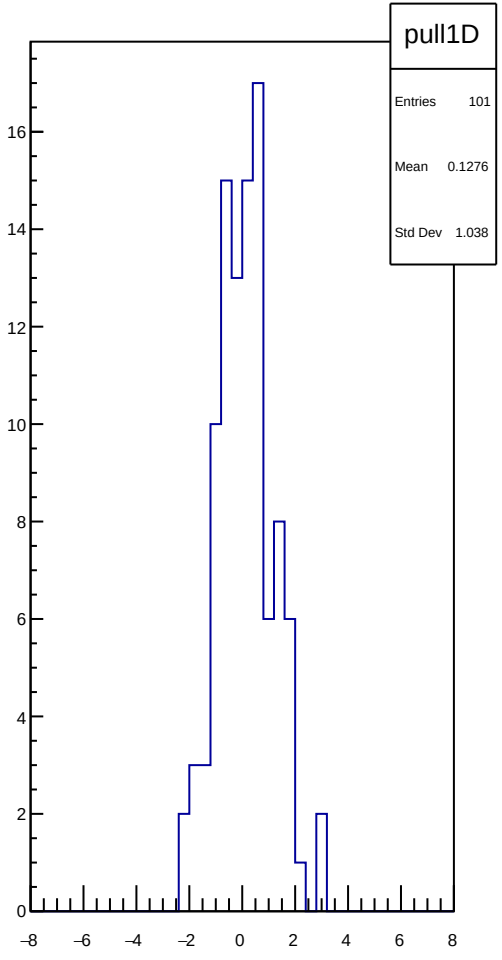

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.868e+05 / 100
p0 33.62 ± 0.02801
140
120
100
80
60
40
20

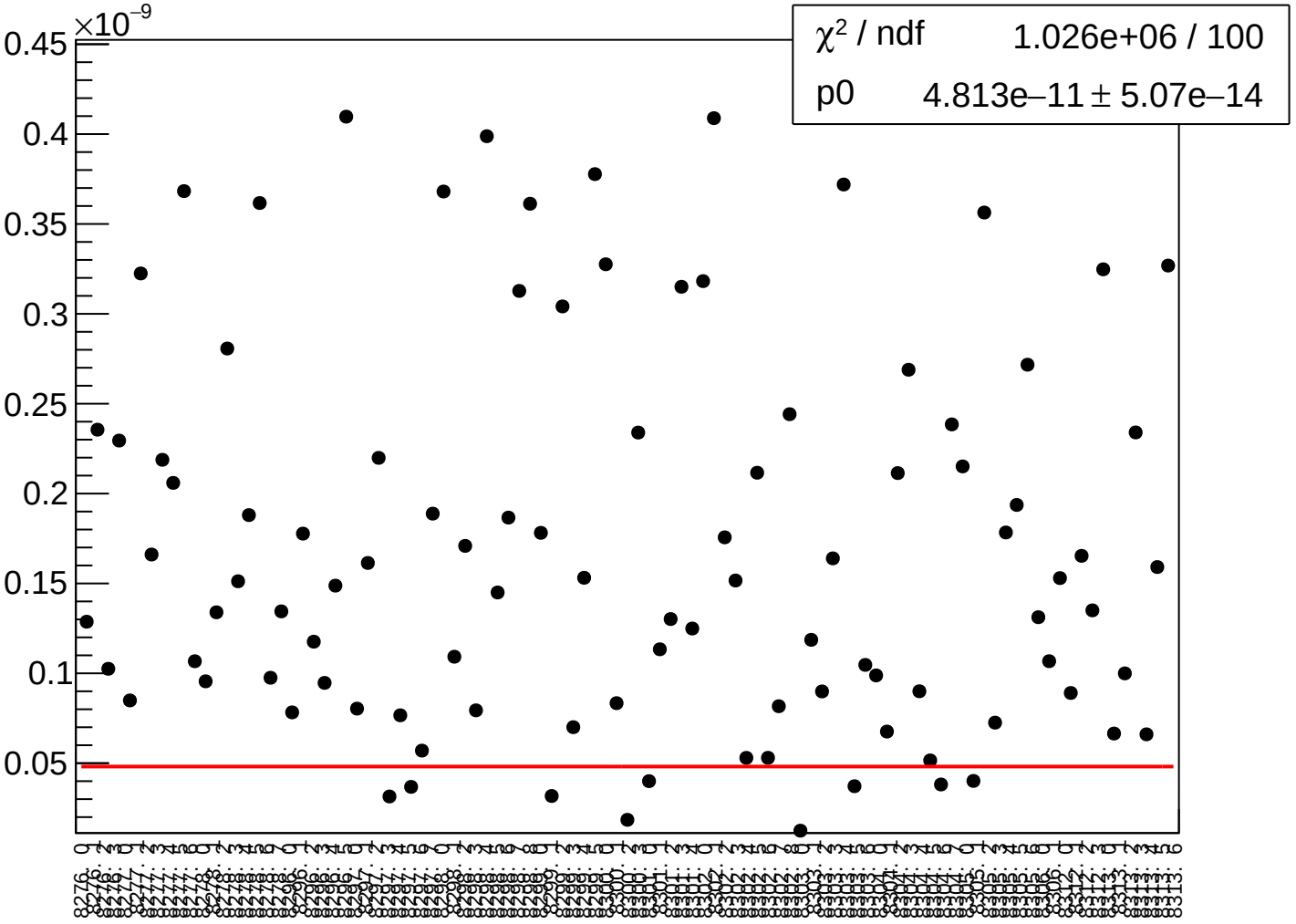

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.7 / 100
p0 −0.00413 ± 0.03962
pull
Entries 101
Mean 108.2
Std Dev 0

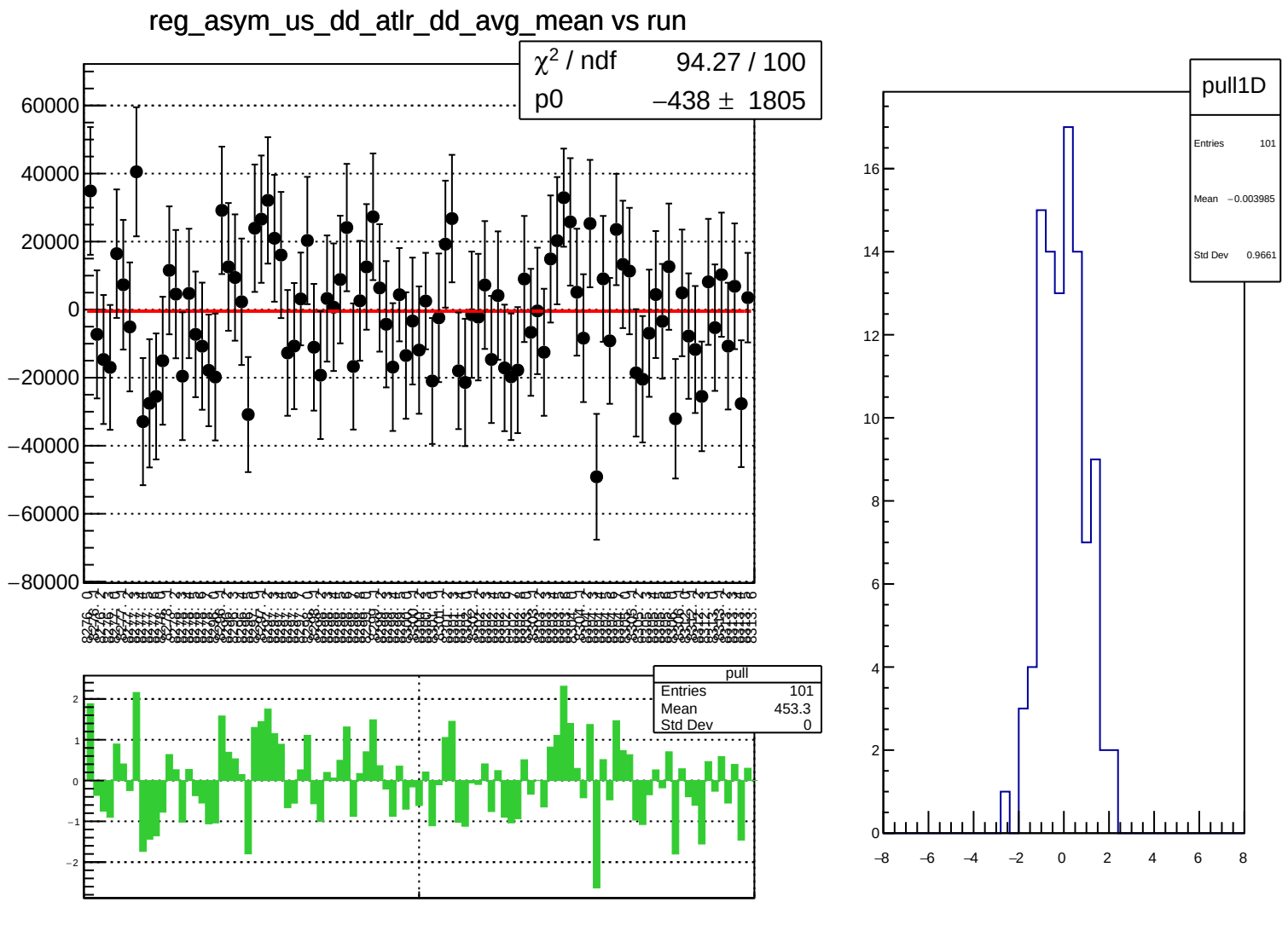

pull1D
Entries 101
Mean −0.1158
Std Dev 0.9967

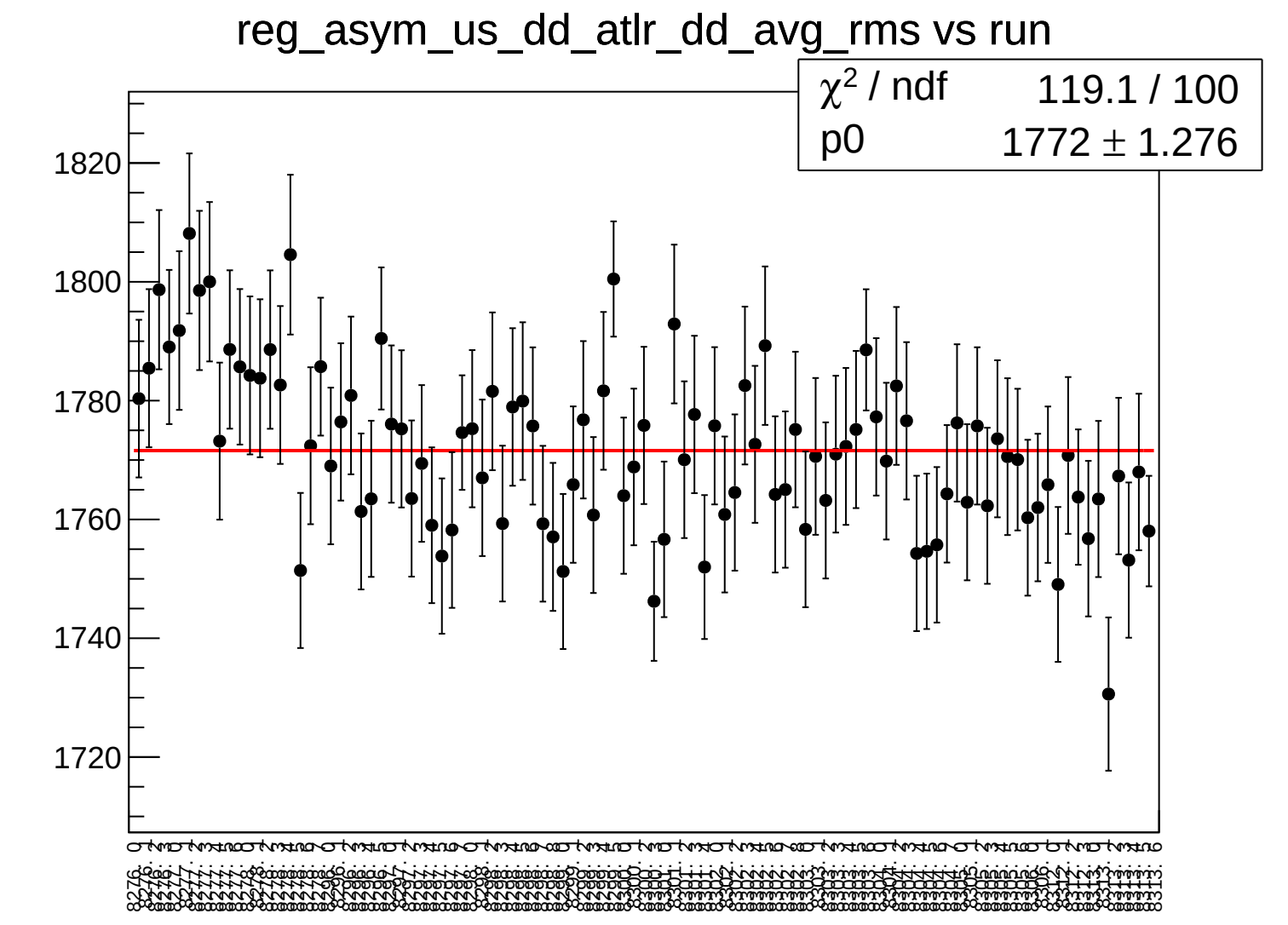

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.868e+05 / 100
p0 33.62 ± 0.02801
140
120
100
80
60
40
20

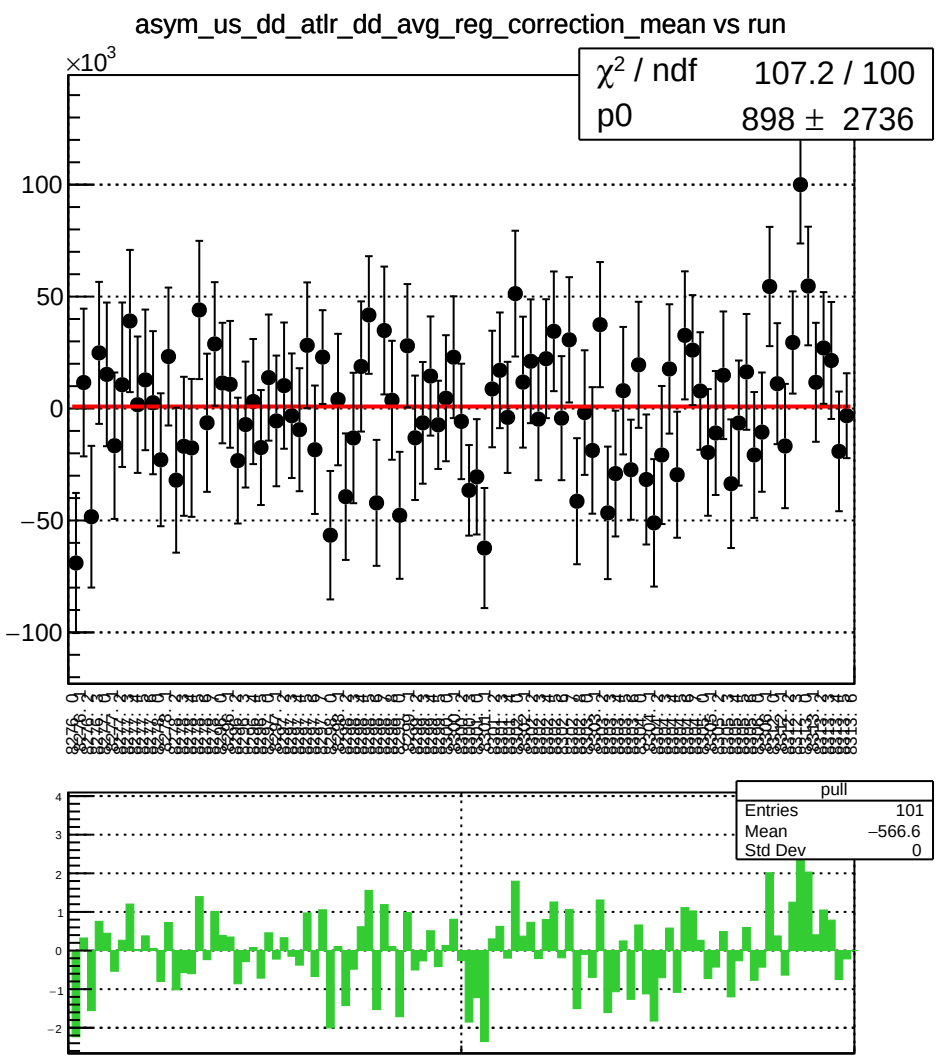

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 110.5 / 100
p0 1.149e−13 ± 7.17e−14
15
10
5
0
−5
−10
pull
Entries 101
Mean 44.74
Std Dev 38.03
3
2
1
0
−1
−2

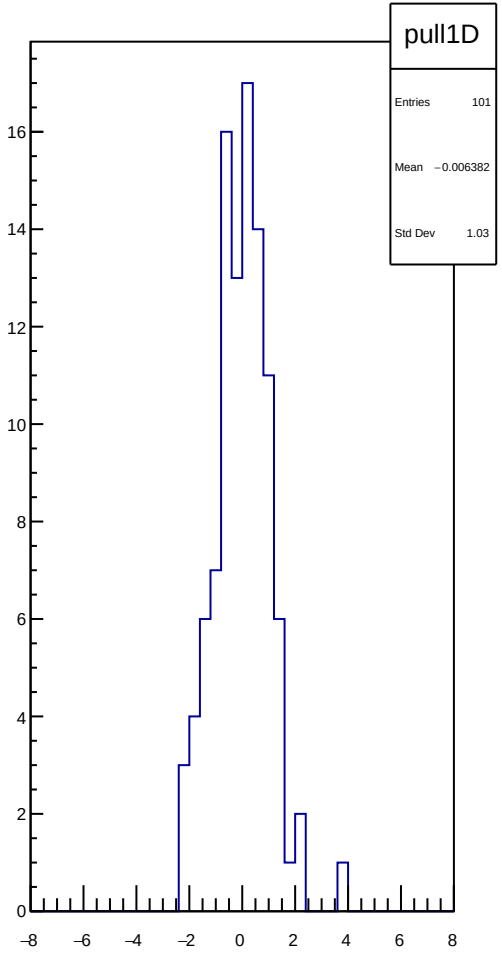

pull1D
Entries 101
Mean 0.1276
Std Dev 1.038
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

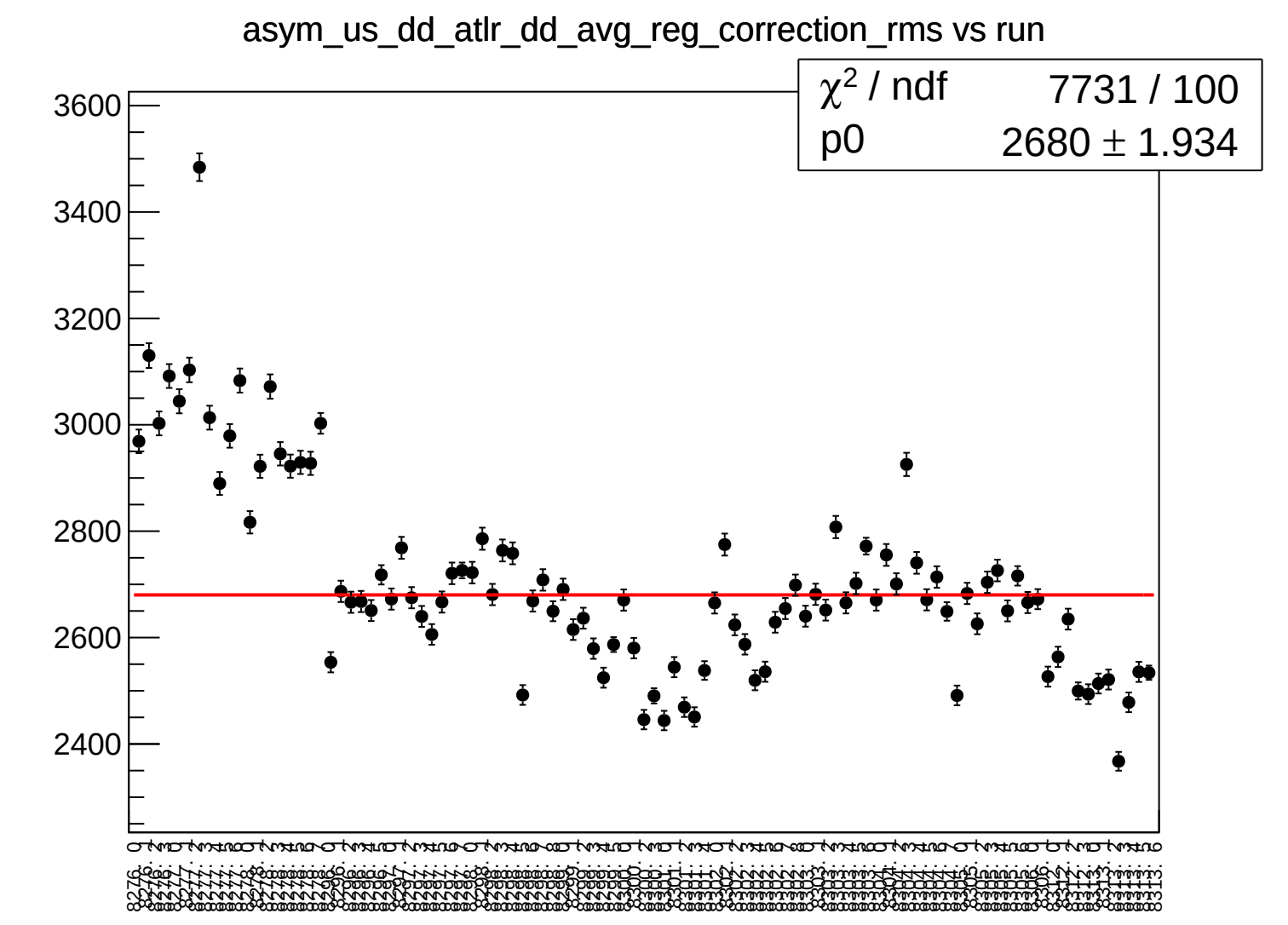

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.026e+06 / 100
p0 4.813e−11 ± 5.07e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

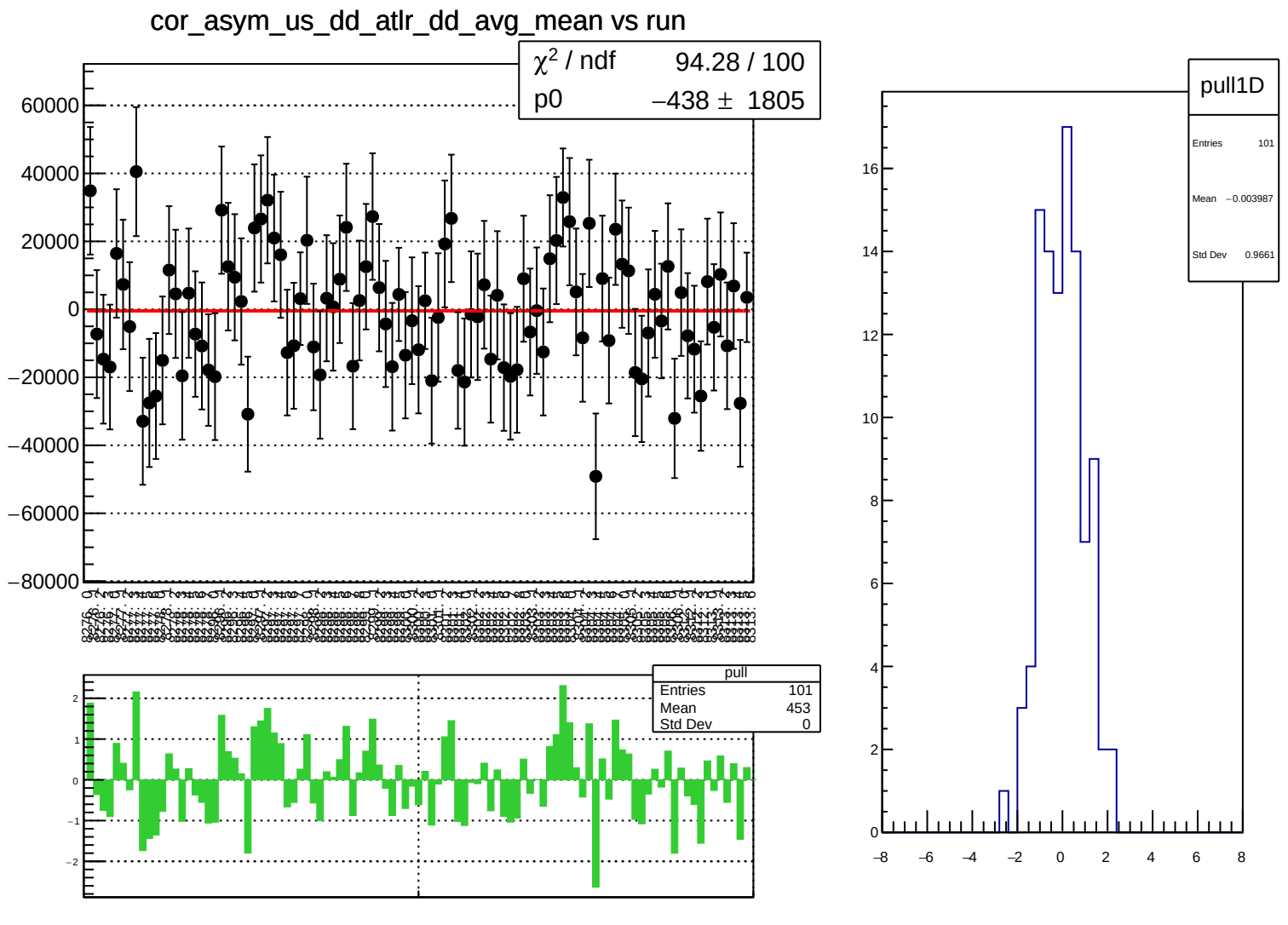

reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 94.27 / 100
p0 −438 ± 1805
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 101
Mean 453.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.003985
Std Dev 0.9661
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

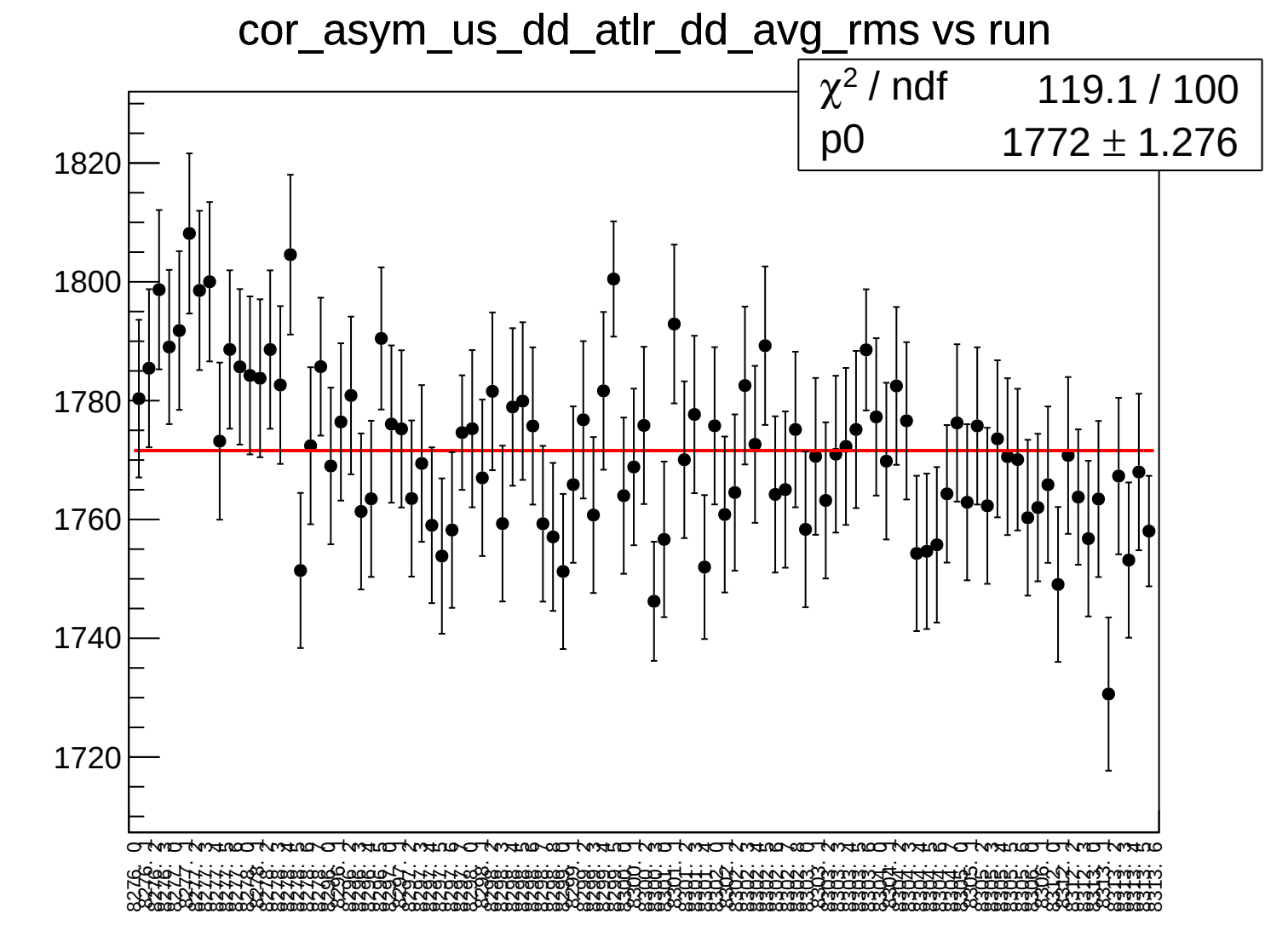

reg_asym_us_dd_atlr_dd_avg_rms vs run
χ^2 / ndf 119.1 / 100
p0 1772 ± 1.276
1820
1800
1780
1760
1740
1720

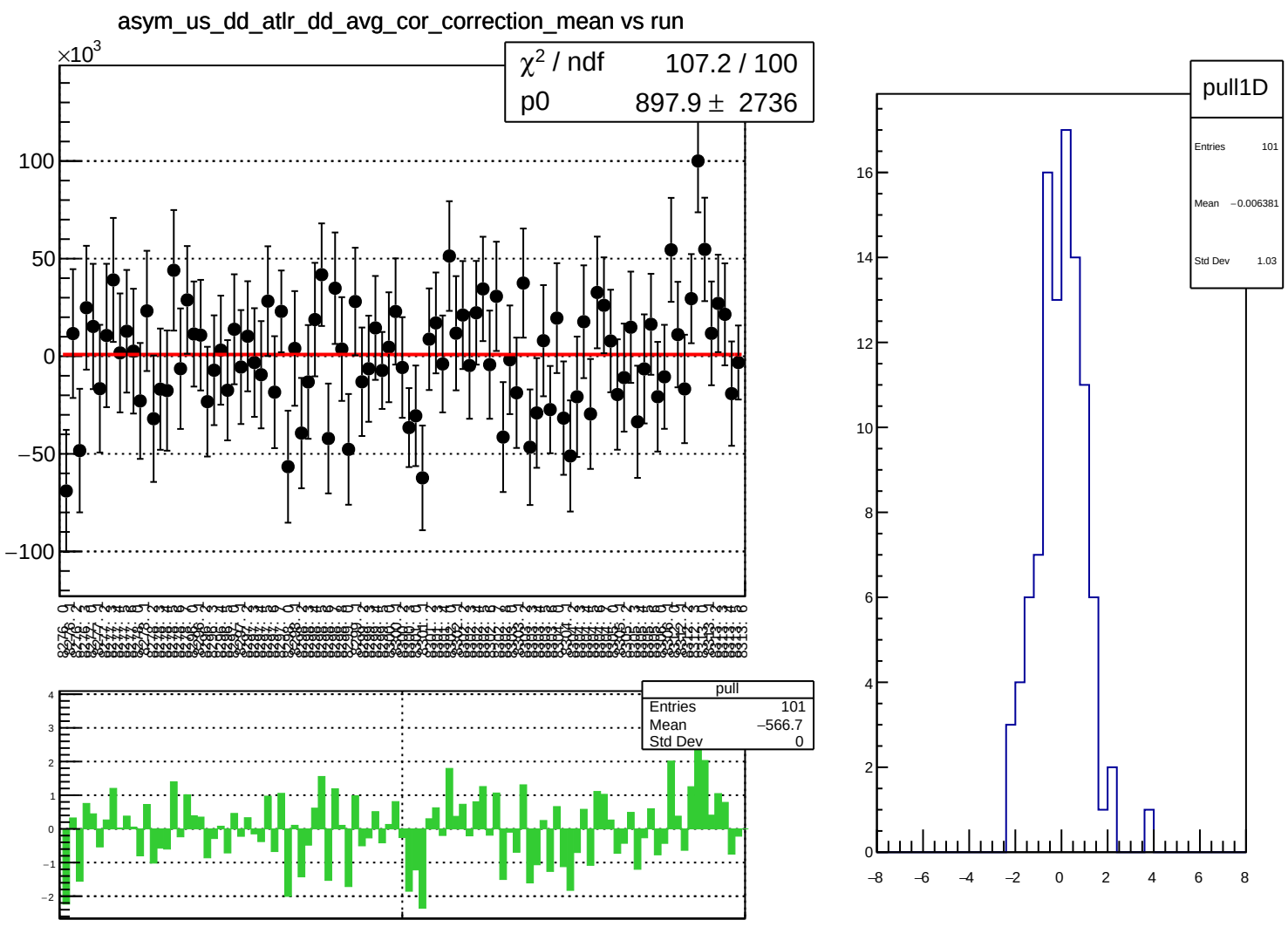

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 107.2 / 100
p0 898 ± 2736
100
50
0
−50
−100
pull
Entries 101
Mean −566.6
Std Dev 0
4
3
2
1
0
−1
−2

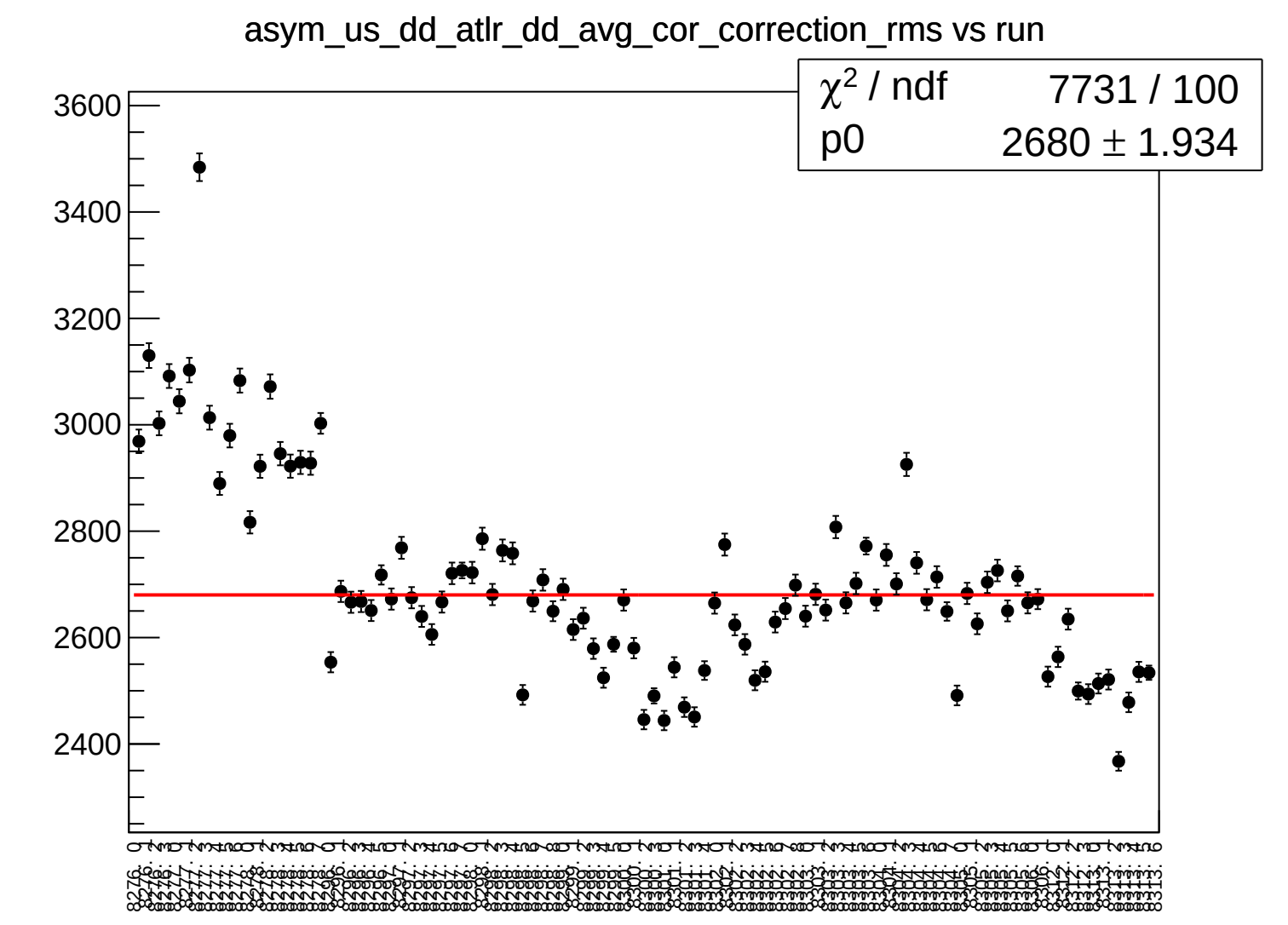

pull1D
Entries 101
Mean −0.006382
Std Dev 1.03
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

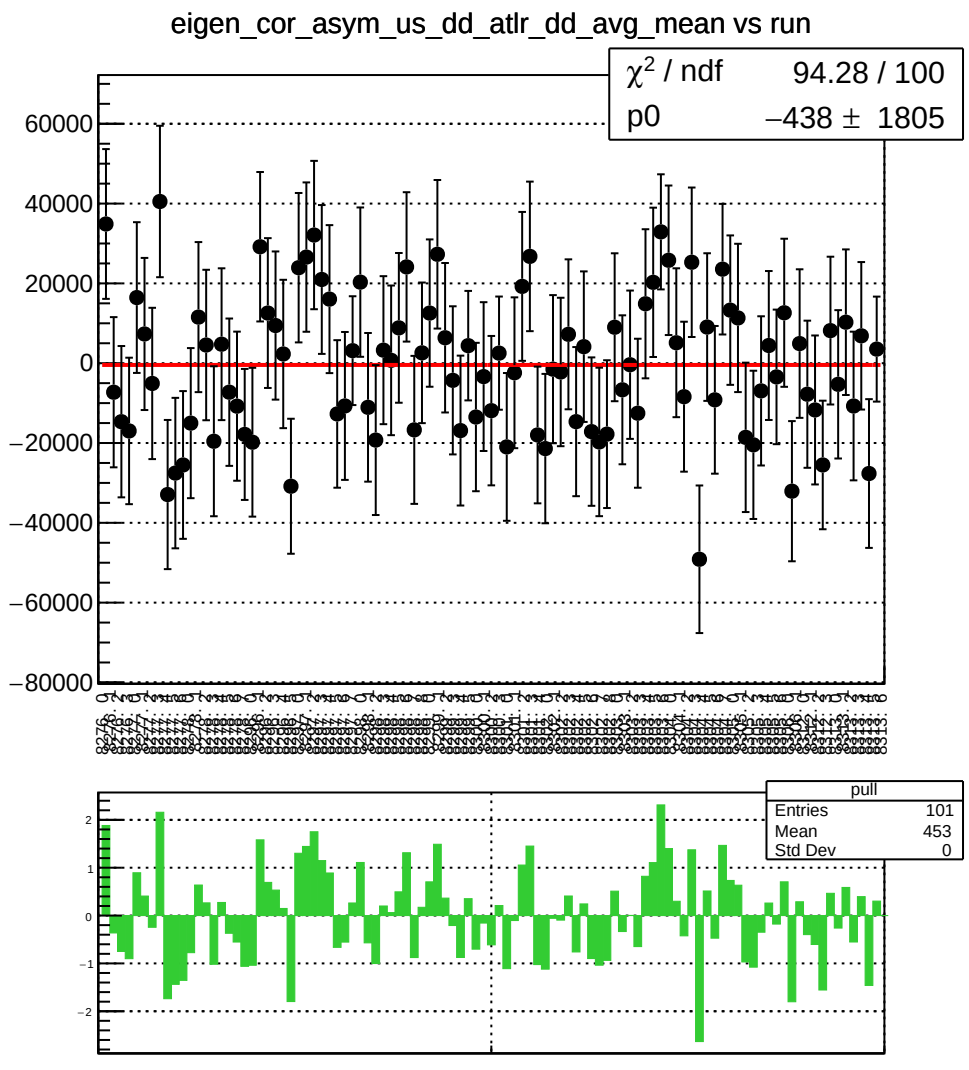

asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ^2 / ndf 7731 / 100
p0 2680 ± 1.934
3600
3400
3200
3000
2800
2600
2400

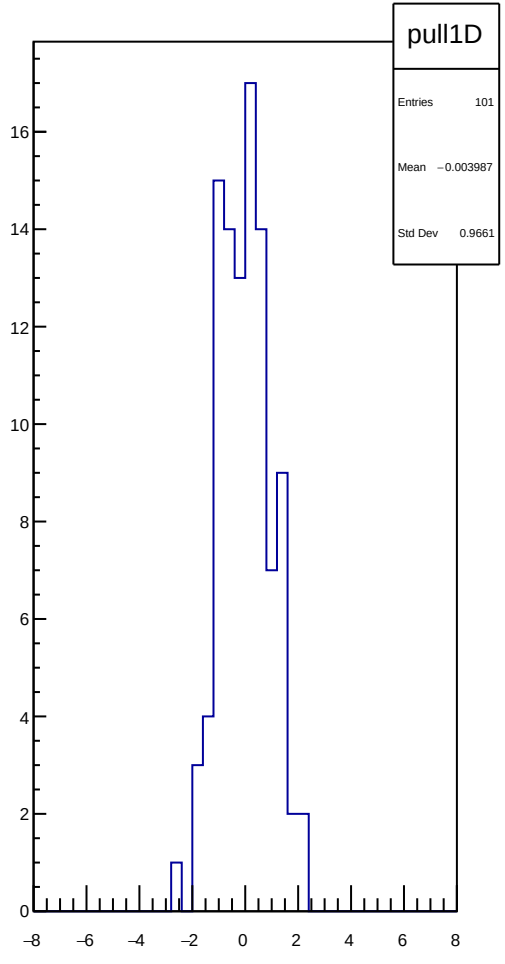

cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 94.28 / 100
p0 −438 ± 1805
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 101
Mean 453
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.003987
Std Dev 0.9661
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_us_dd_atlr_dd_avg_rms vs run
χ^2 / ndf 119.1 / 100
p0 1772 ± 1.276
1820
1800
1780
1760
1740
1720


asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 107.2 / 100
p0 897.9 ± 2736
100
50
0
−50
−100
pull
Entries 101
Mean −566.7
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.006381
Std Dev 1.03
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
χ^2 / ndf 7731 / 100
p0 2680 ± 1.934
3600
3400
3200
3000
2800
2600
2400


eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 94.28 / 100
p0 −438 ± 1805
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 101
Mean 453
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 101
Mean −0.003987
Std Dev 0.9661
16
14
12
10
8
6
4
2
0
−8
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−4
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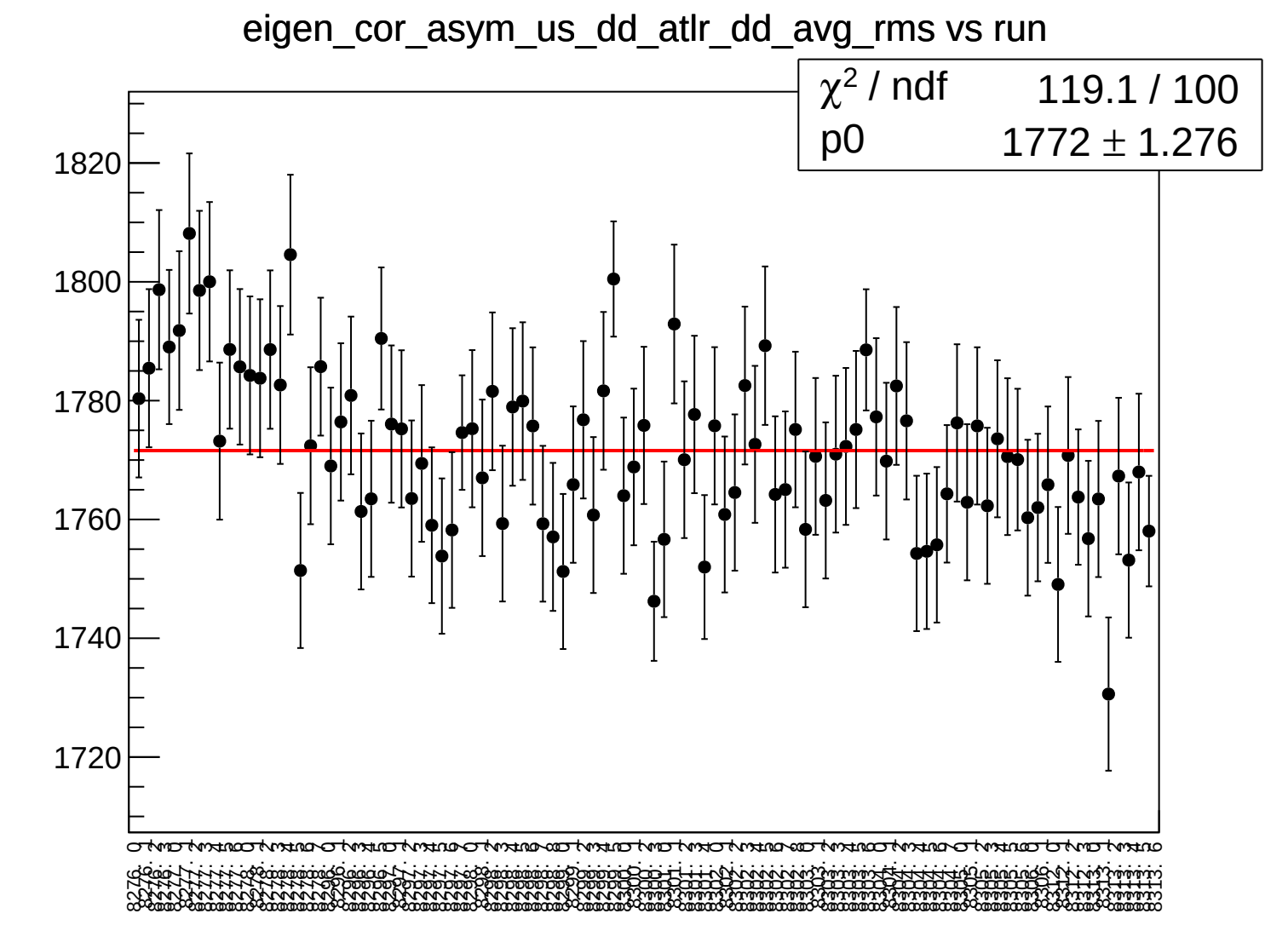
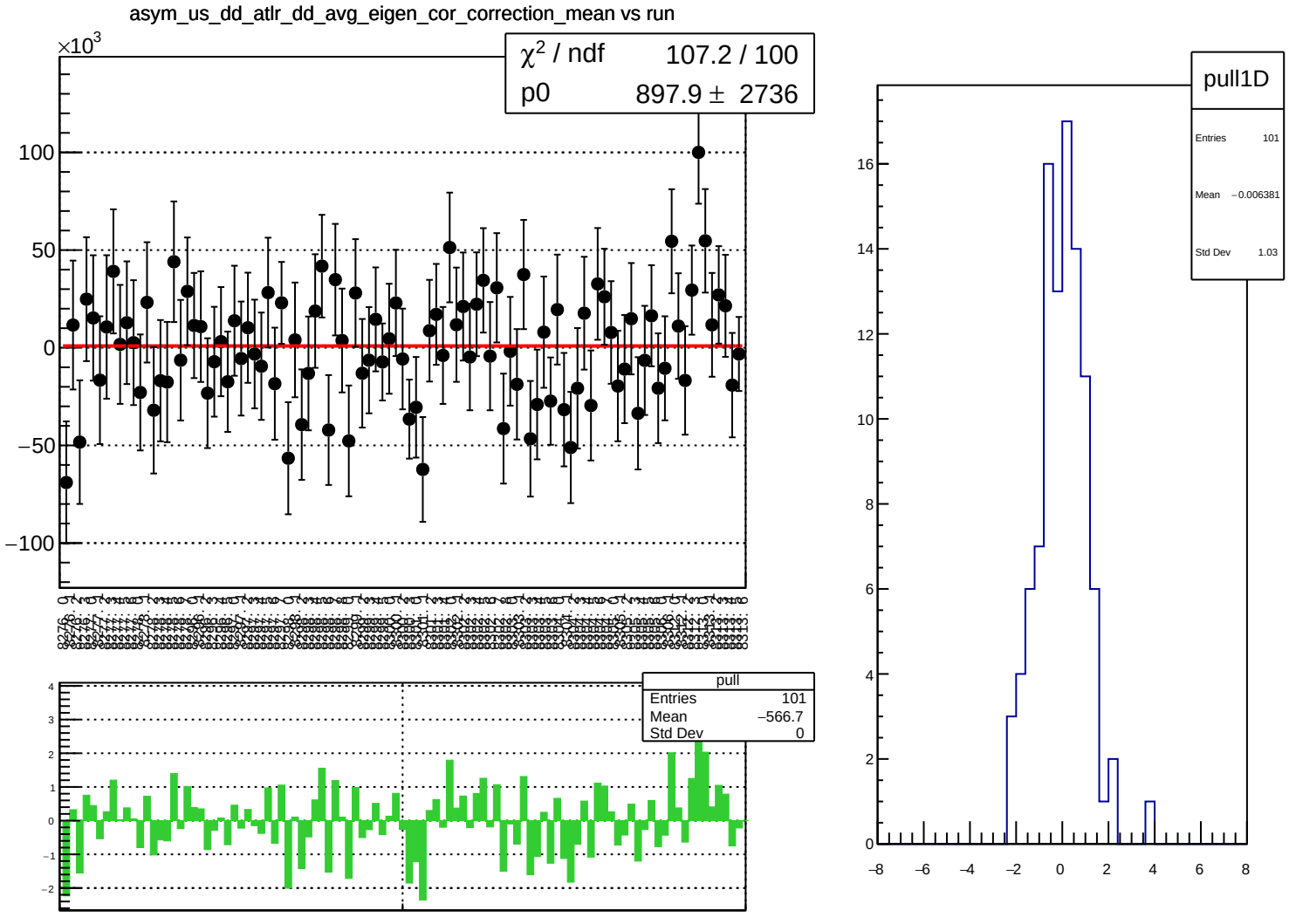
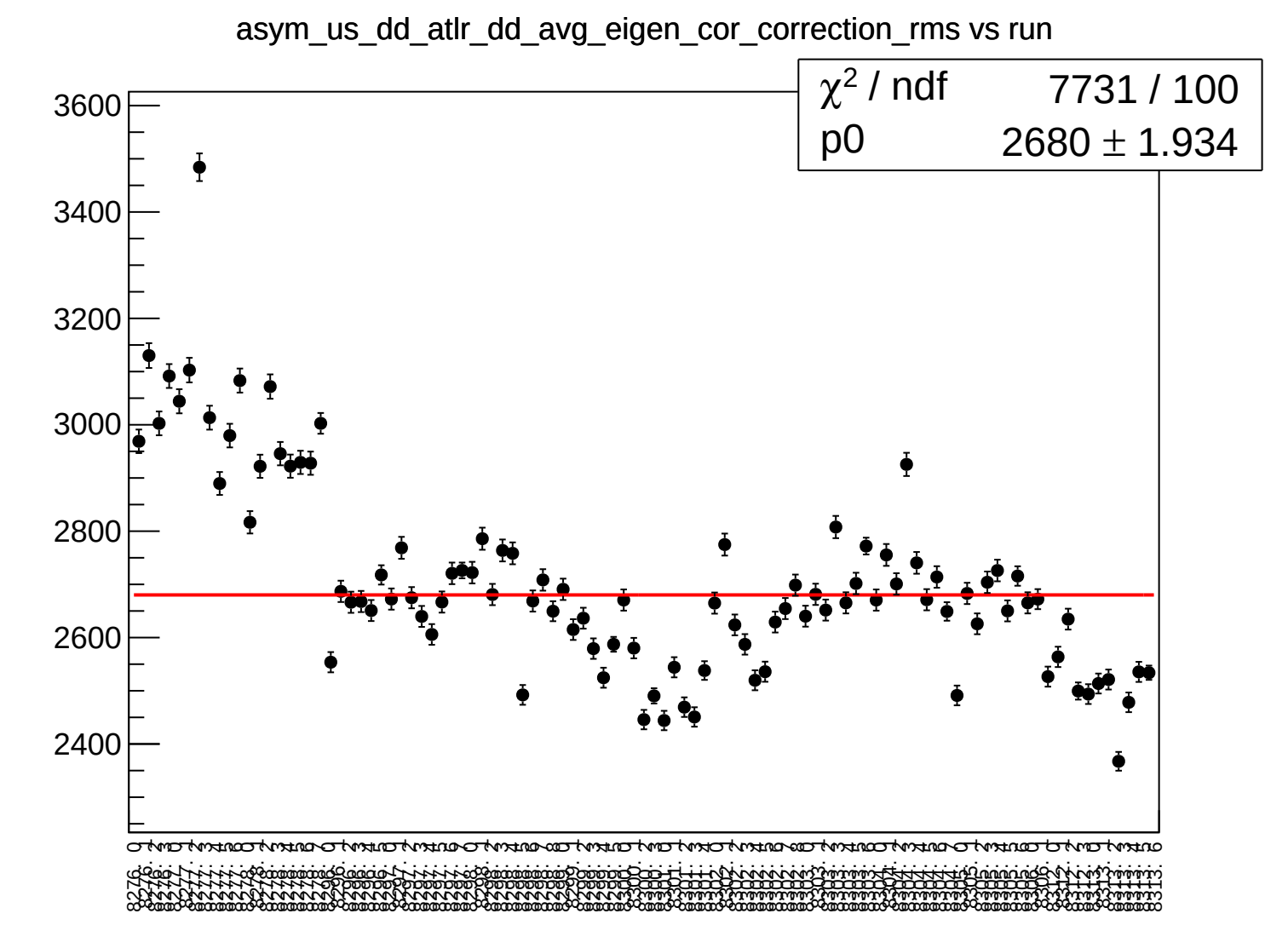
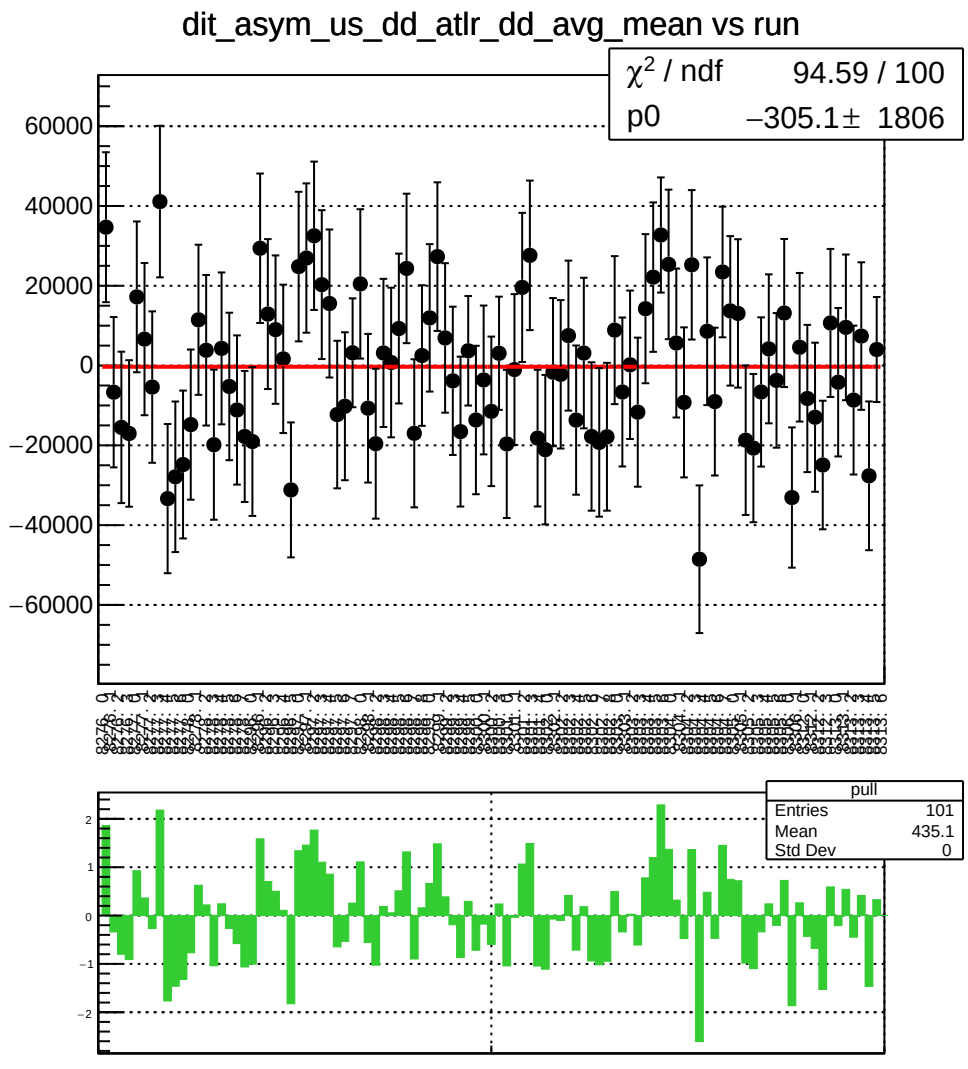
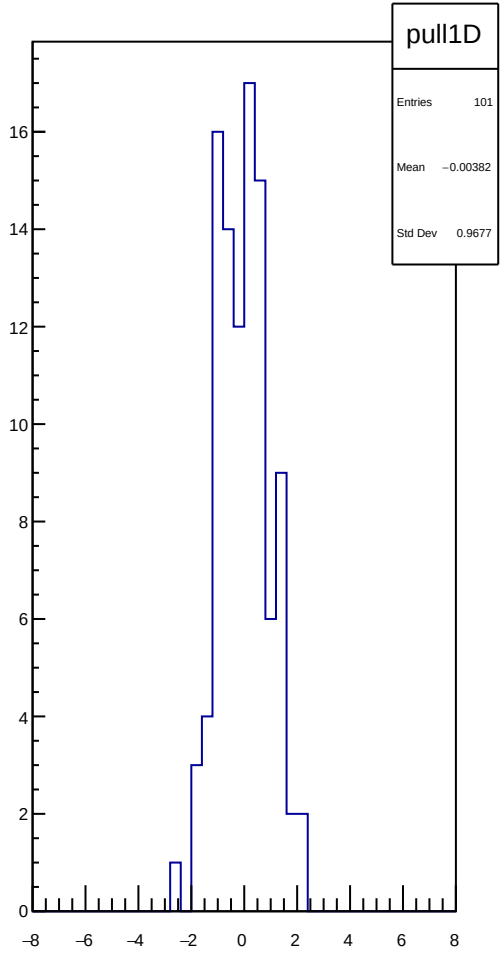
0
2
4
6
8

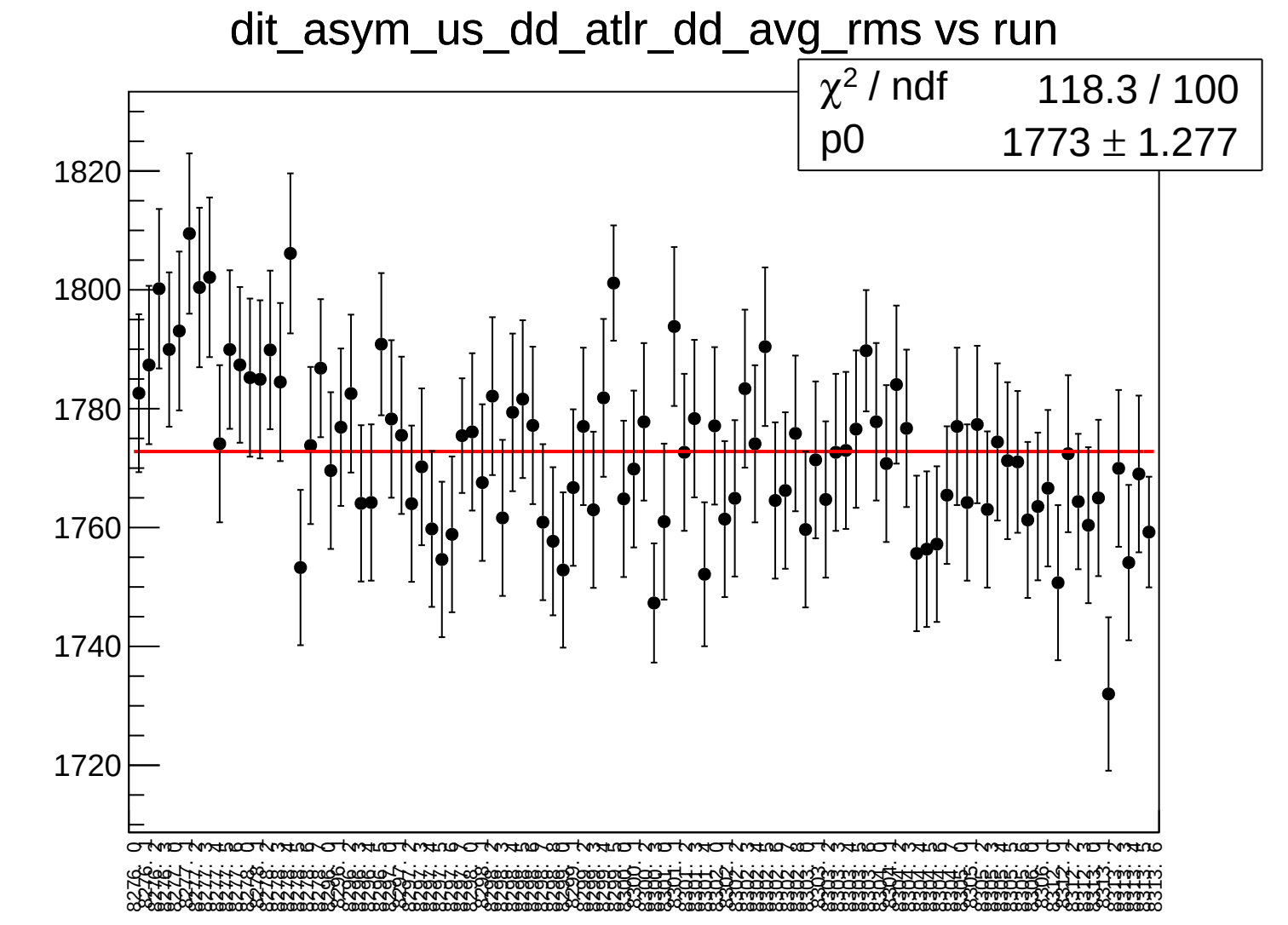

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 119.1 / 100
p0 1772 ± 1.276
1820
1800
1780
1760
1740
1720

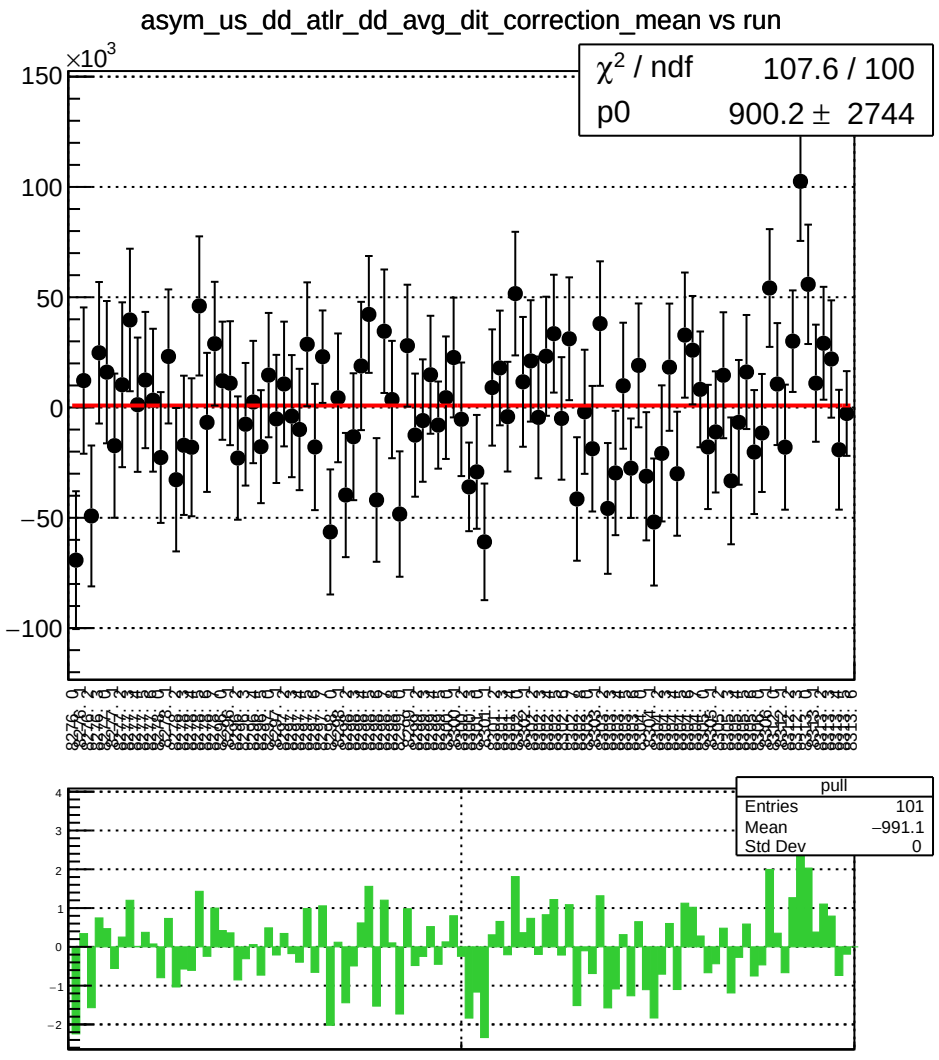

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 107.2 / 100
p0 897.9 ± 2736
100
50
0
−50
−100
pull
Entries 101
Mean −566.7
Std Dev 0
pull1D
Entries 101
Mean −0.006381
Std Dev 1.03

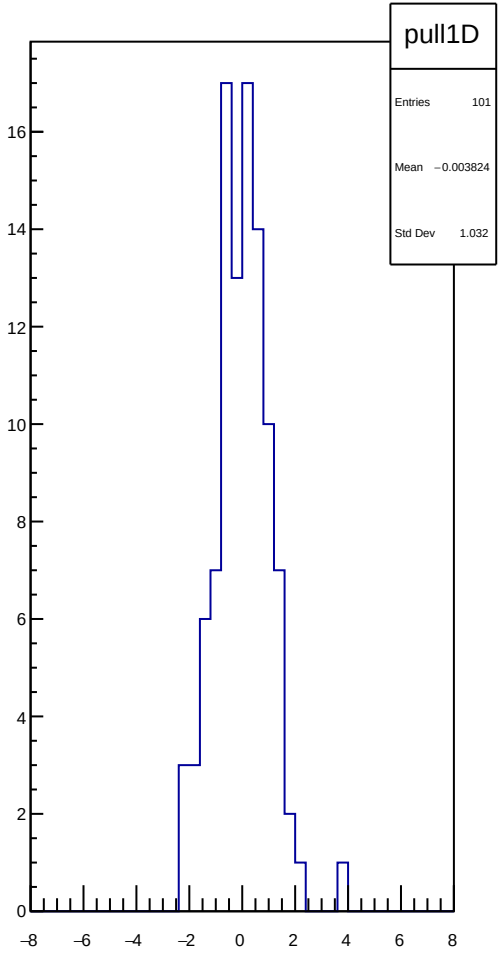

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 7731 / 100
p0 2680 ± 1.934
3600
3400
3200
3000
2800
2600
2400

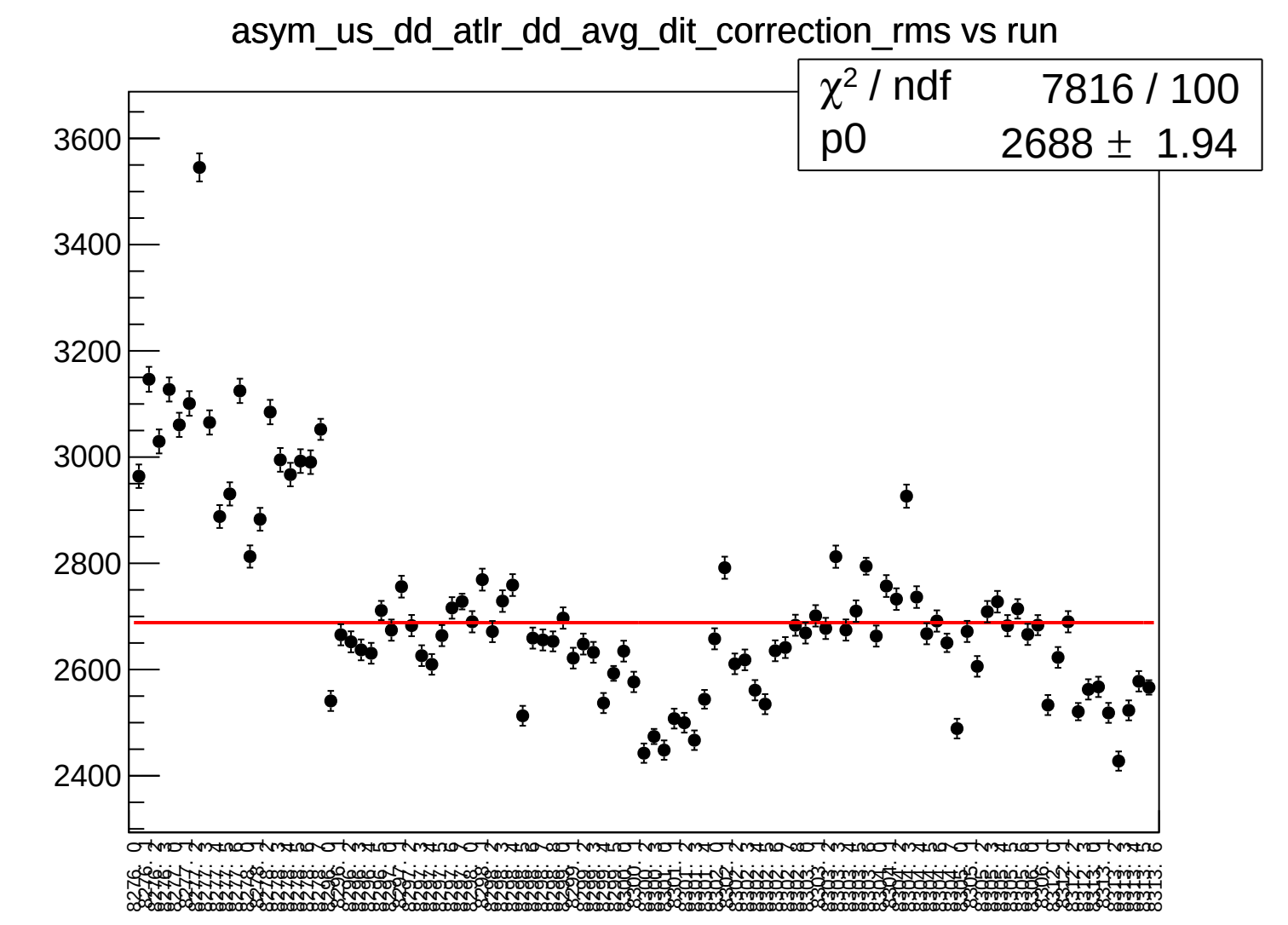

dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 94.59 / 100
p0 −305.1± 1806
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean 435.1
Std Dev 0
2
1
0
−1
−2

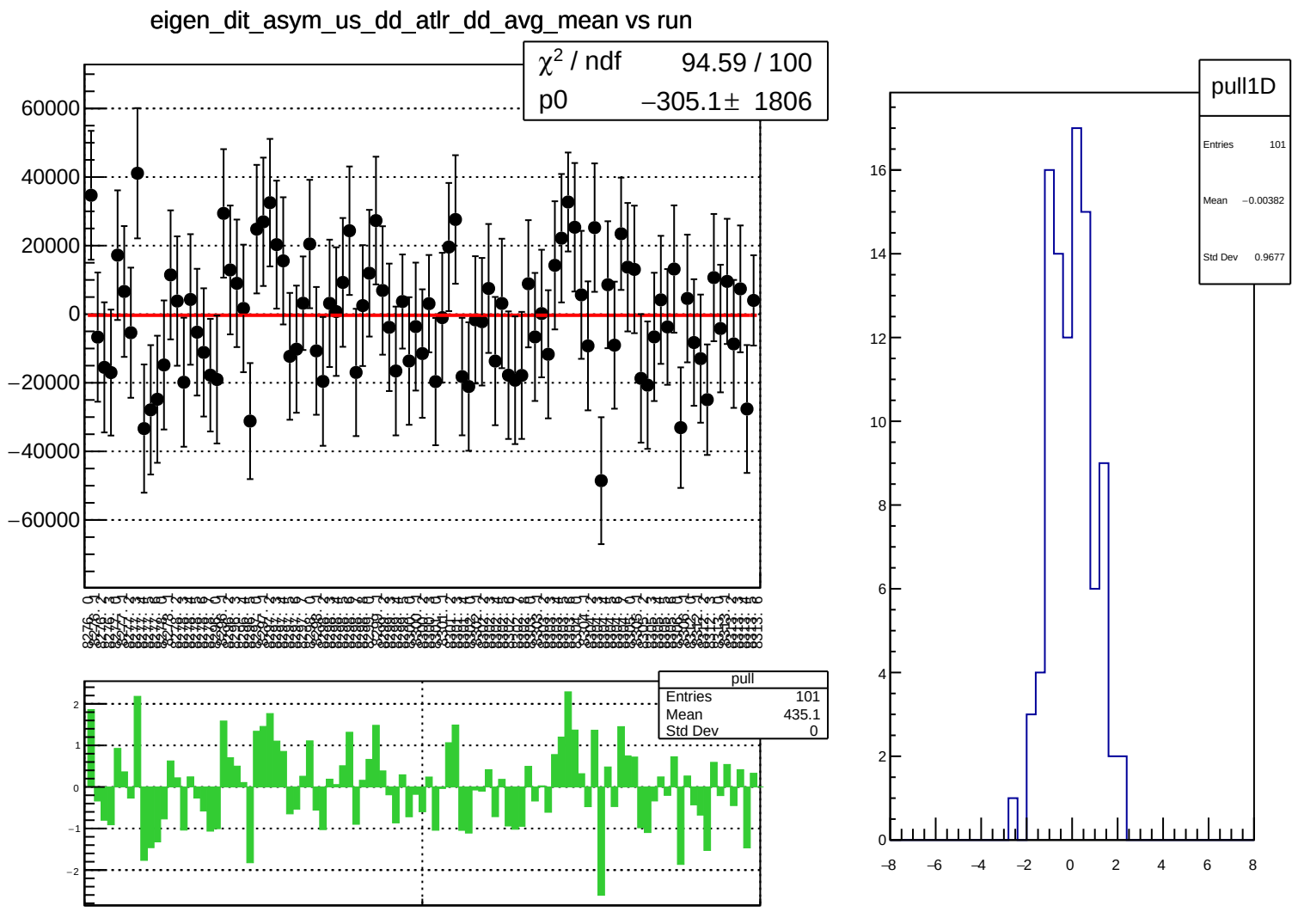

pull1D
Entries 101
Mean −0.00382
Std Dev 0.9677
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

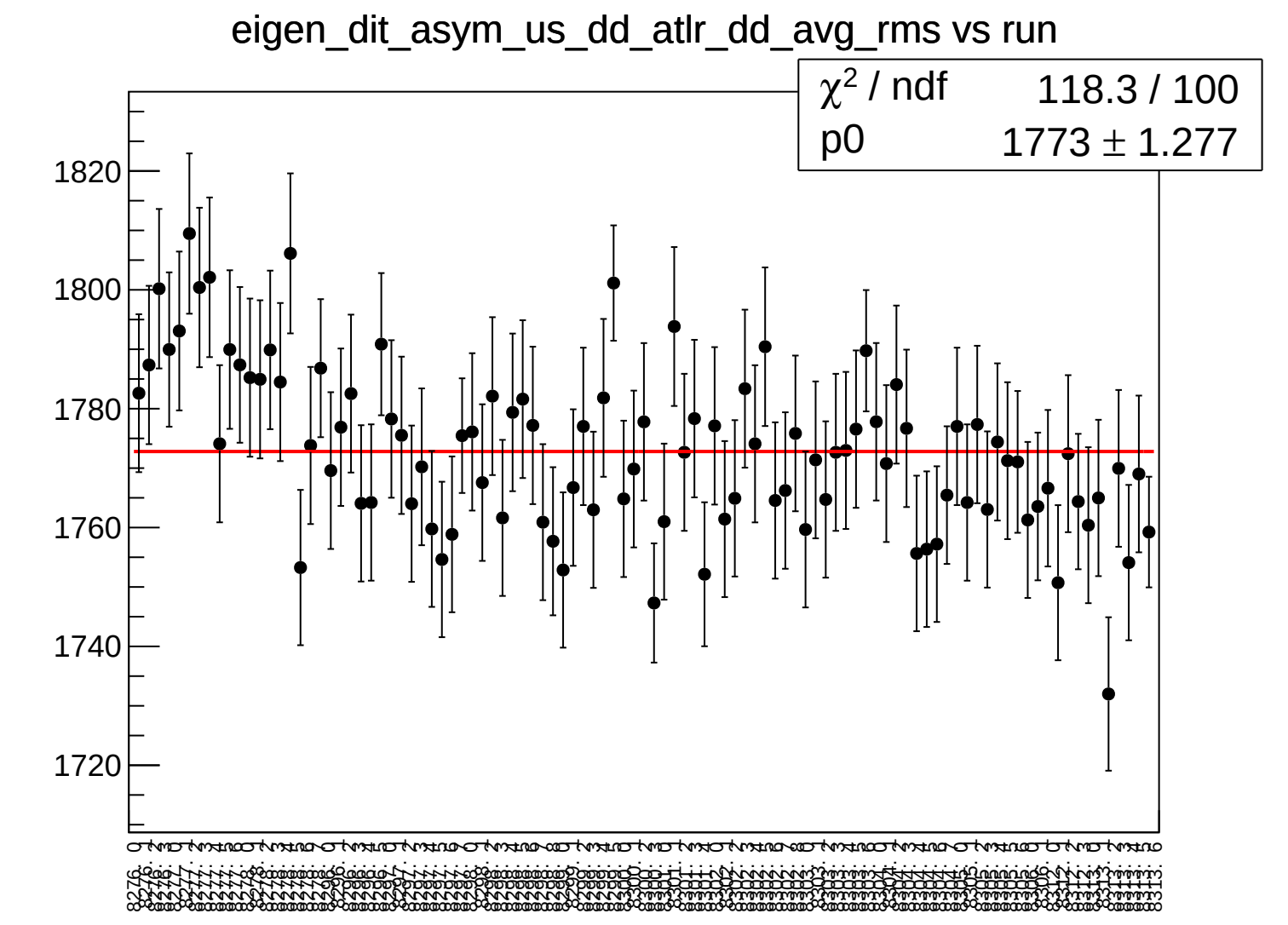

dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 118.3 / 100
p0 1773 ± 1.277
1820
1800
1780
1760
1740
1720

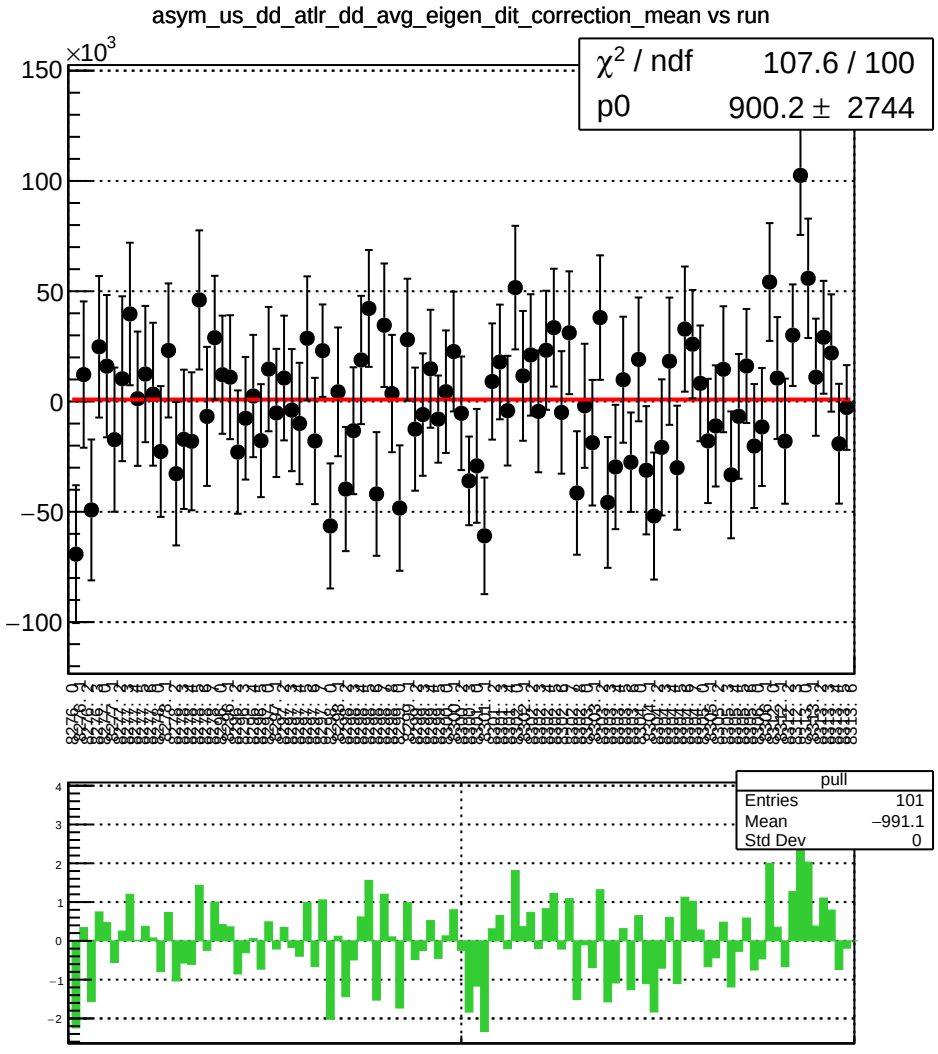

asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 107.6 / 100
p0 900.2 ± 2744
150
100
50
0
−50
−100
pull
Entries 101
Mean −991.1
Std Dev 0
4
3
2
1
0
−1
−2

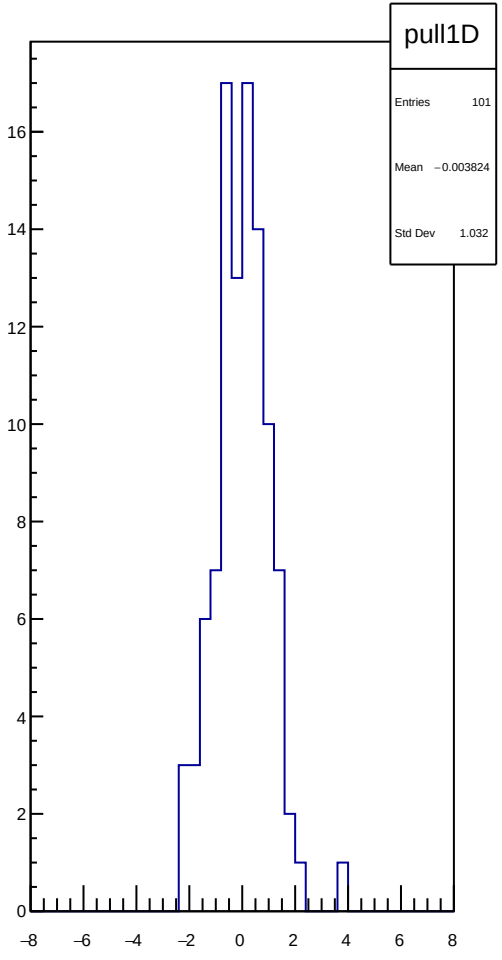

pull1D
Entries 101
Mean −0.003824
Std Dev 1.032
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

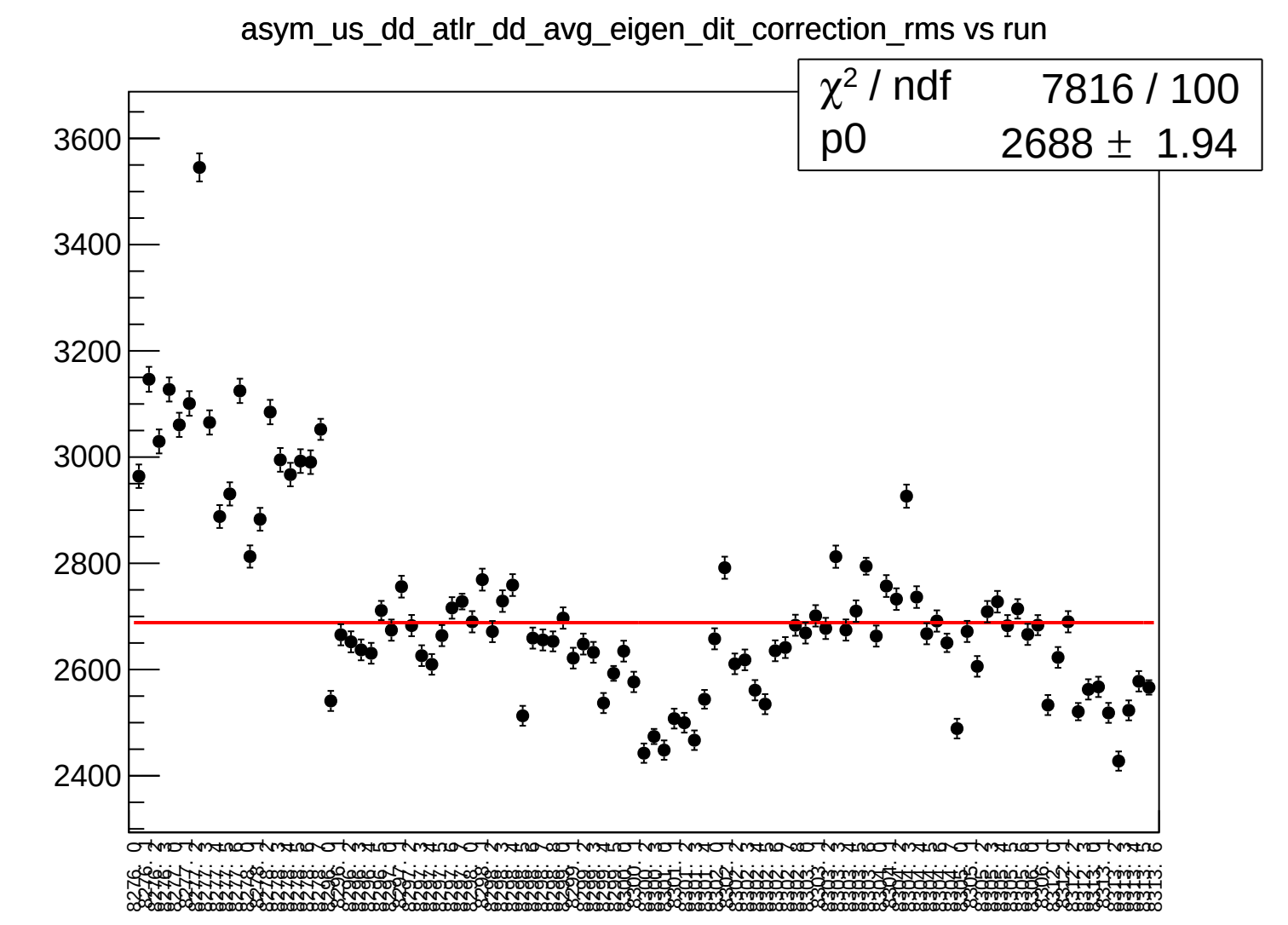

asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ² / ndf 7816 / 100
p0 2688 ± 1.94
3600
3400
3200
3000
2800
2600
2400

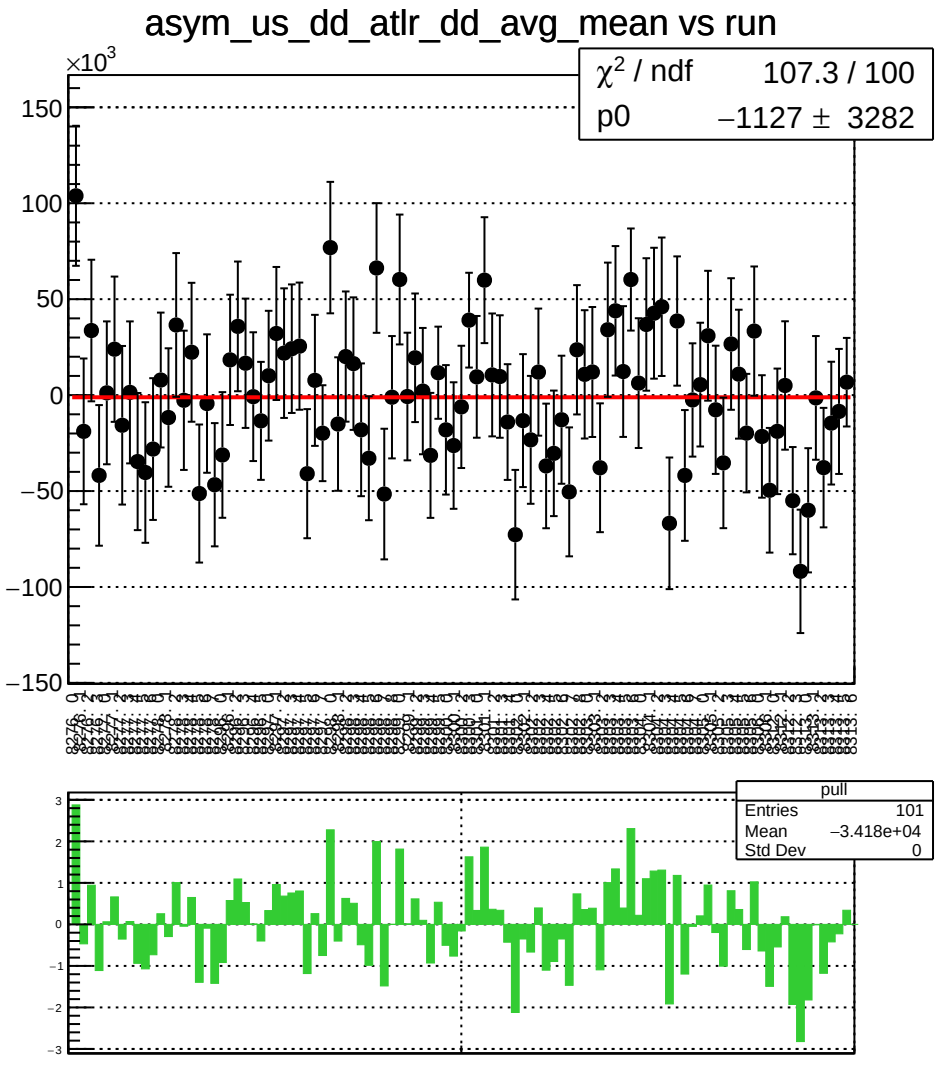

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 94.59 / 100
p0 −305.1± 1806
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean 435.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.00382
Std Dev 0.9677
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

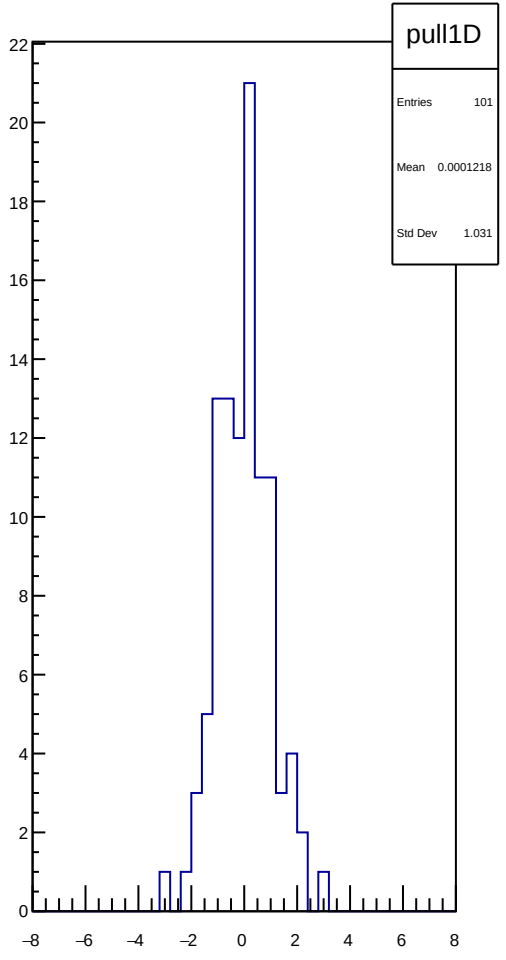

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 118.3 / 100
p0 1773 ± 1.277
1820
1800
1780
1760
1740
1720

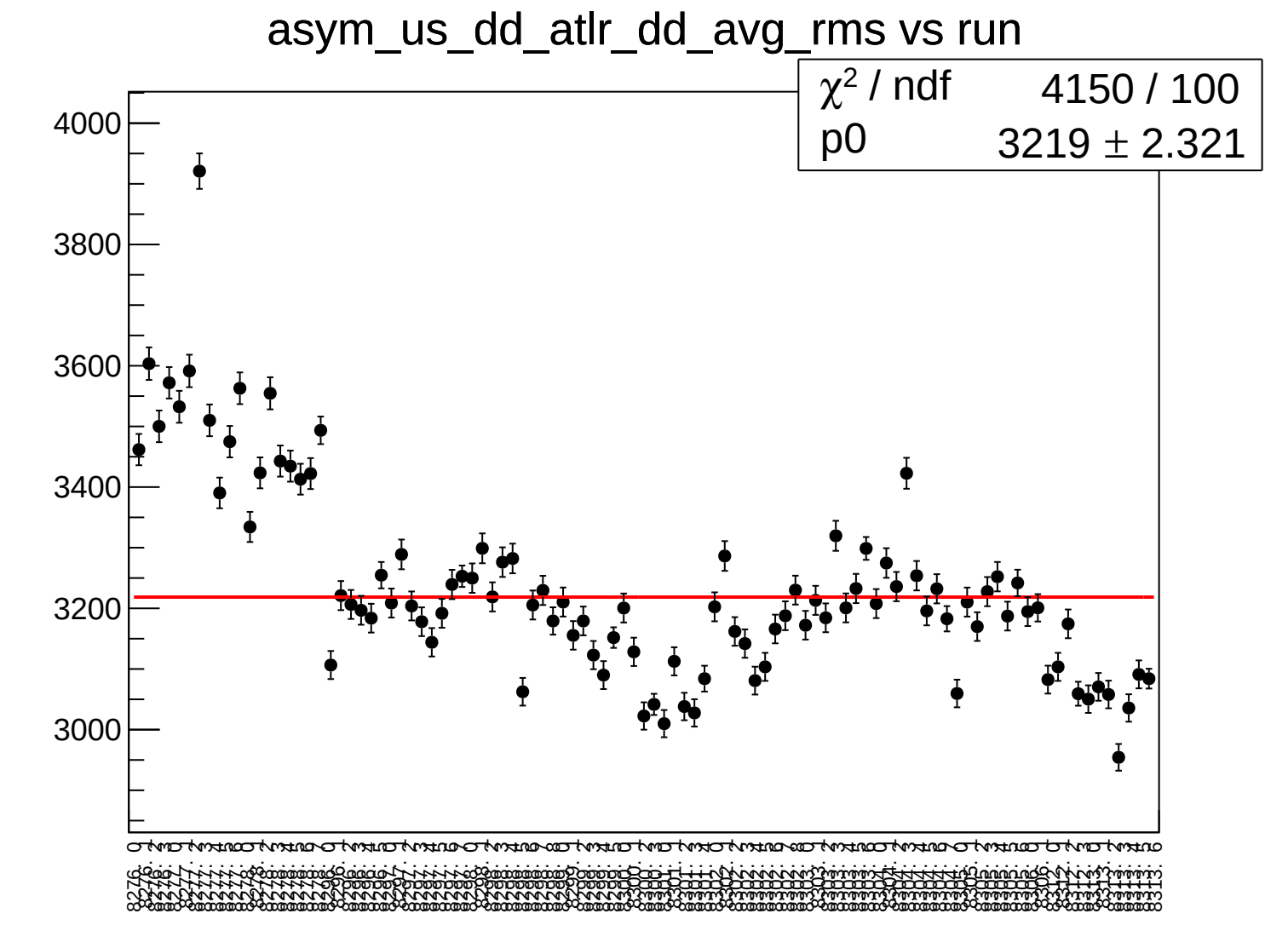

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 107.6 / 100
p0 900.2 ± 2744
150
100
50
0
−50
−100
pull
Entries 101
Mean −991.1
Std Dev 0
4
3
2
1
0
−1
−2

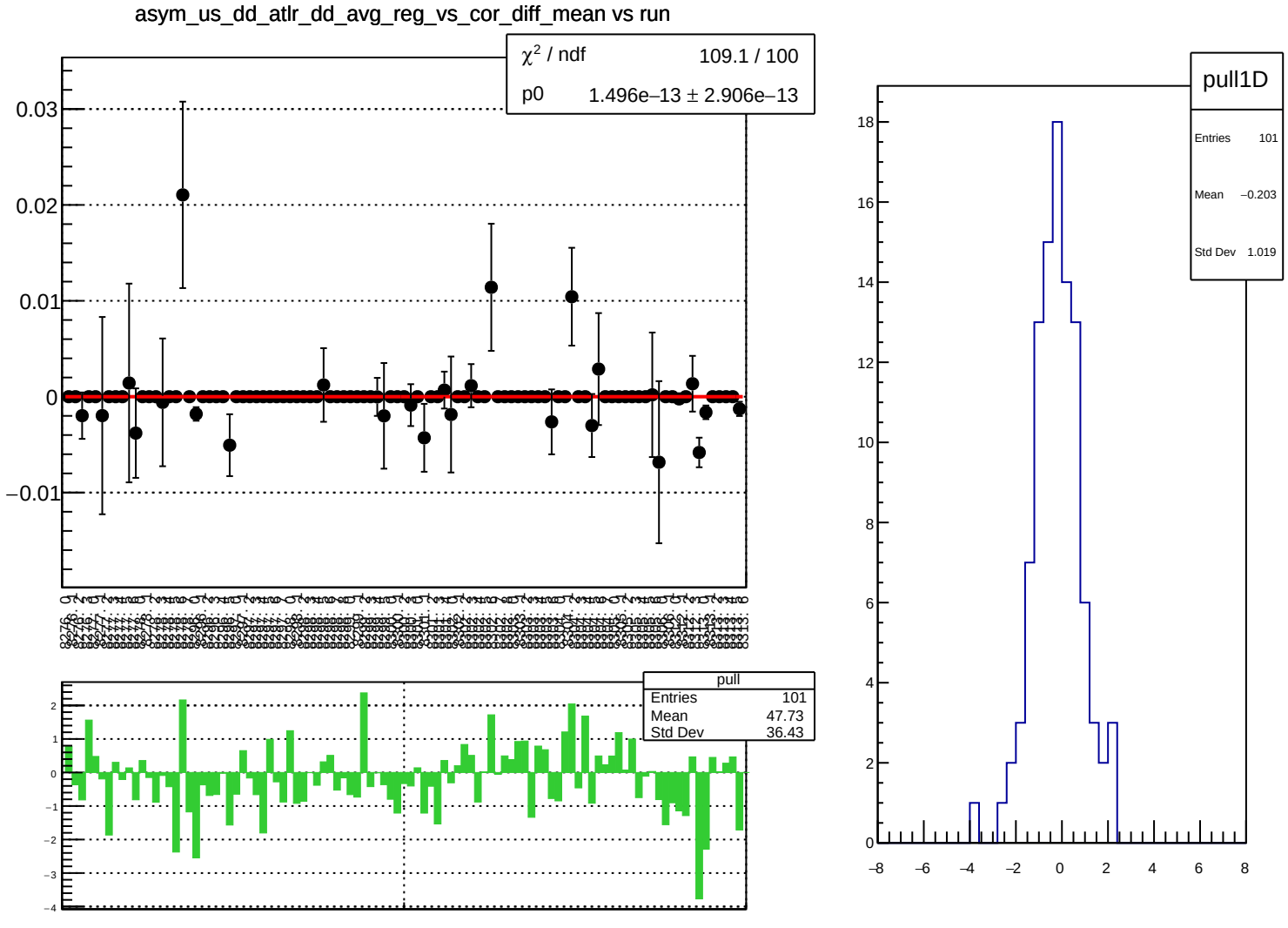

pull1D
Entries 101
Mean −0.003824
Std Dev 1.032
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

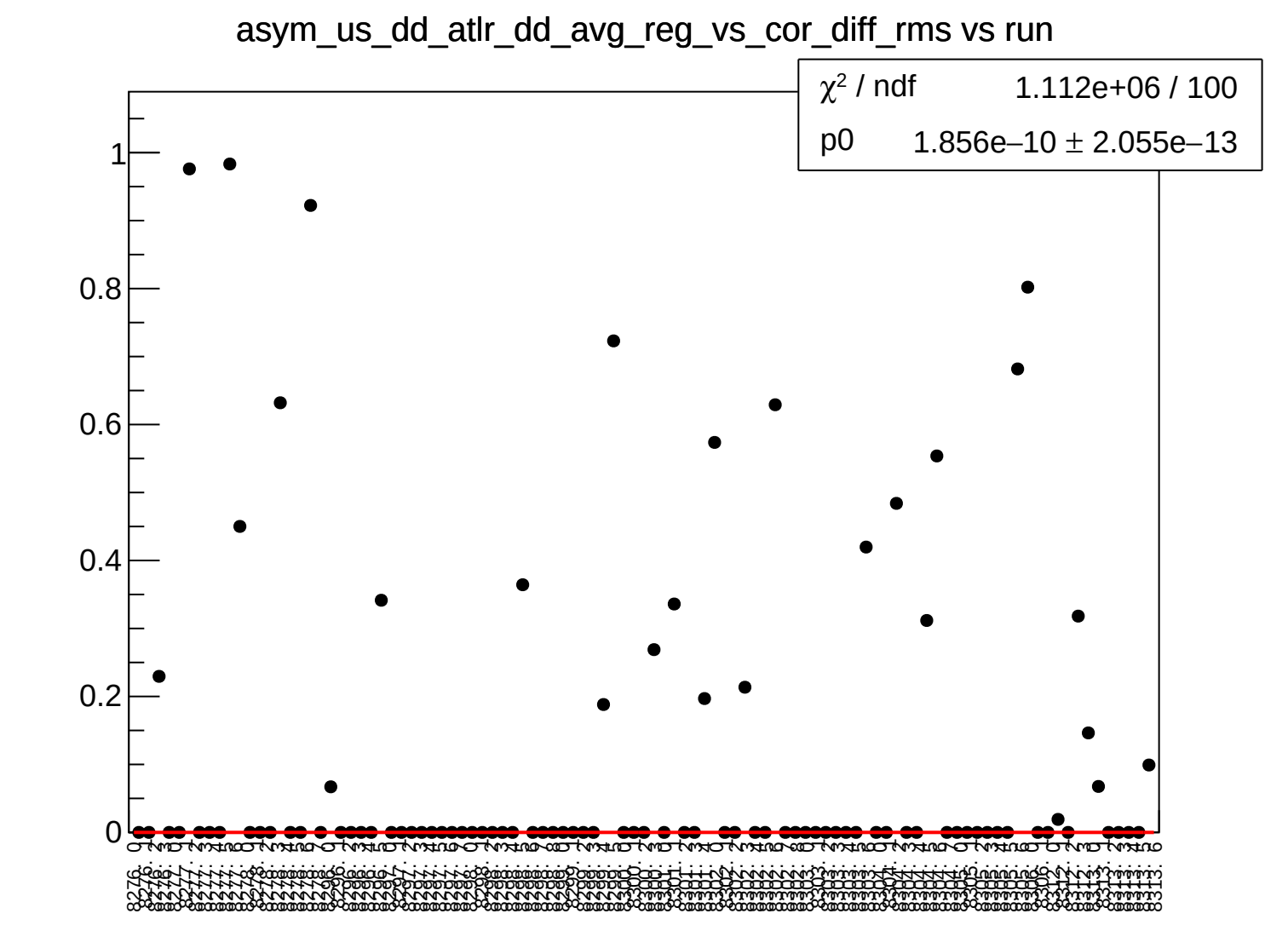

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 7816 / 100
p0 2688 ± 1.94
3600
3400
3200
3000
2800
2600
2400

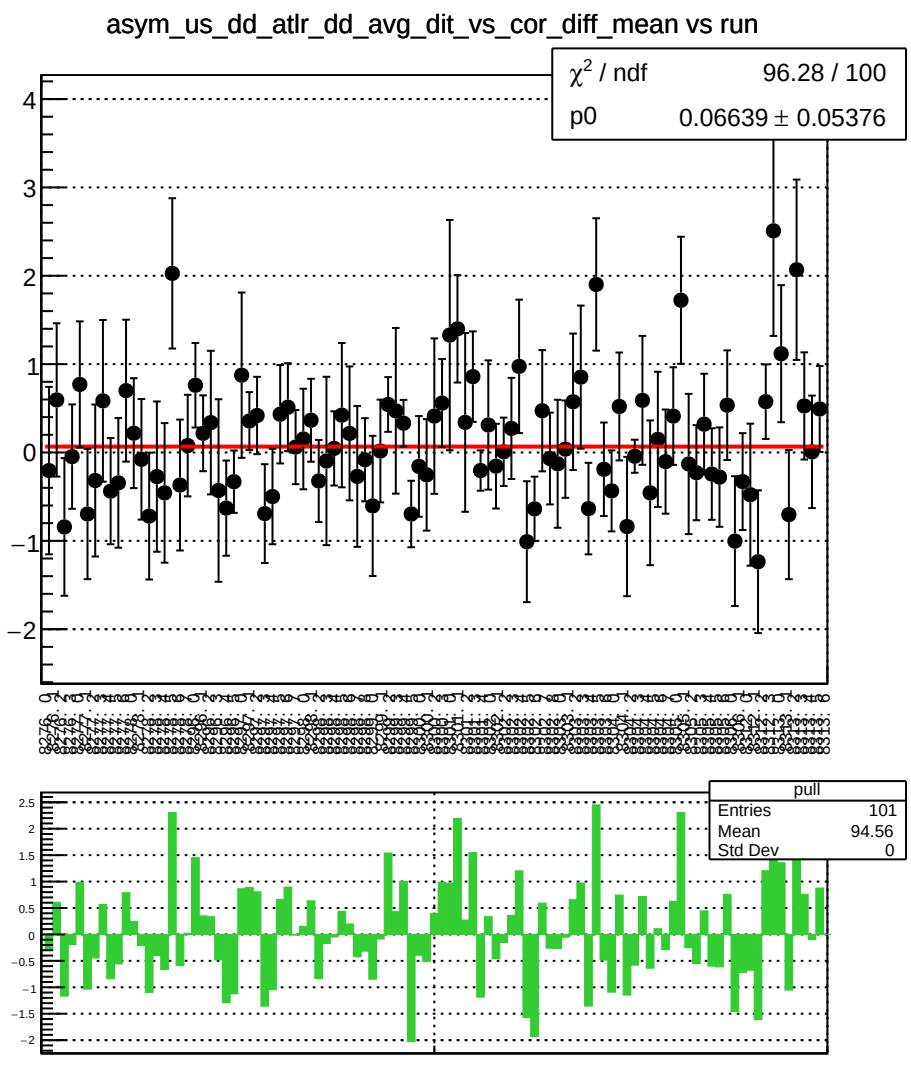

asym_us_dd_atlr_dd_avg_mean vs run
×10^3
χ^2 / ndf 107.3 / 100
p0 −1127 ± 3282
150
100
50
0
−50
−100
−150
pull
Entries 101
Mean −3.418e+04
Std Dev 0
3
2
1
0
−1
−2
−3

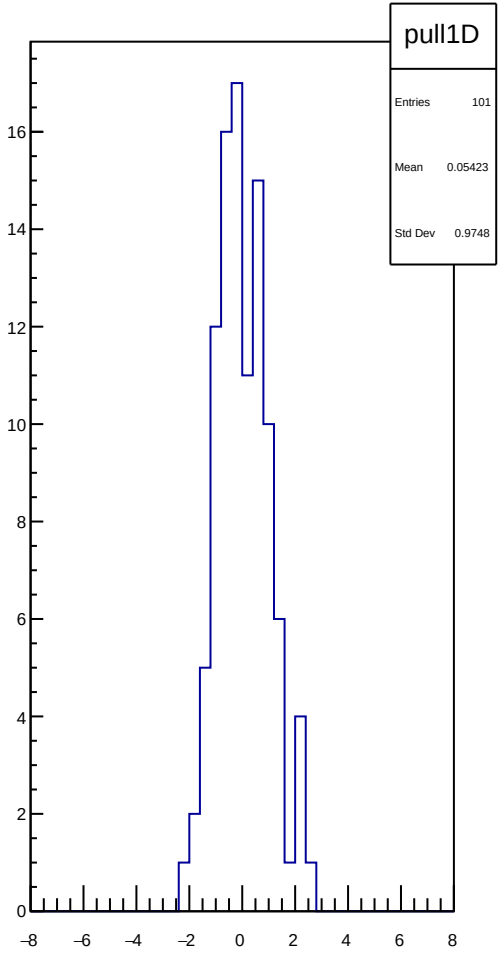

pull1D
Entries 101
Mean 0.0001218
Std Dev 1.031
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

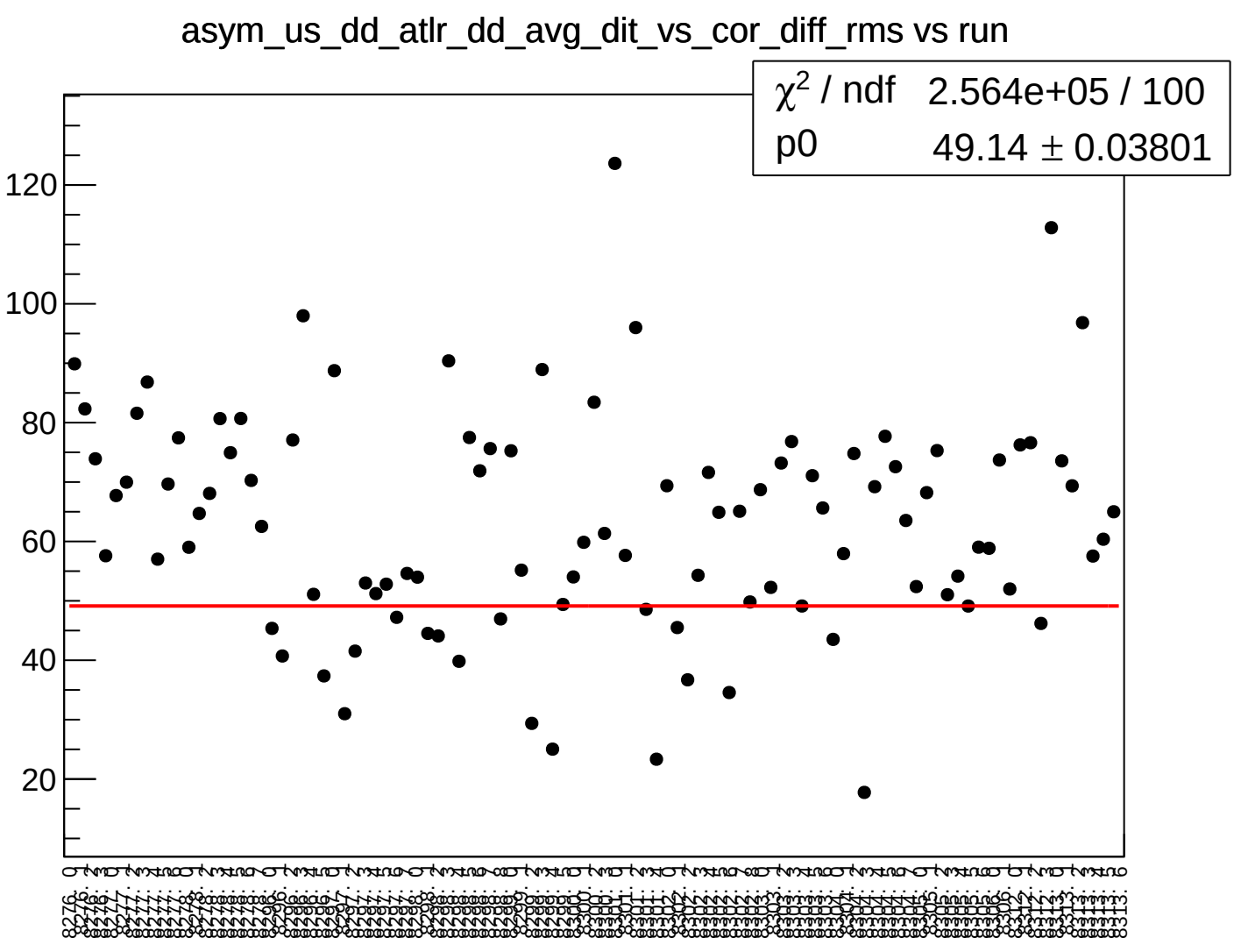

asym_us_dd_atlr_dd_avg_rms vs run
χ^2 / ndf 4150 / 100
p0 3219 ± 2.321
4000
3800
3600
3400
3200
3000

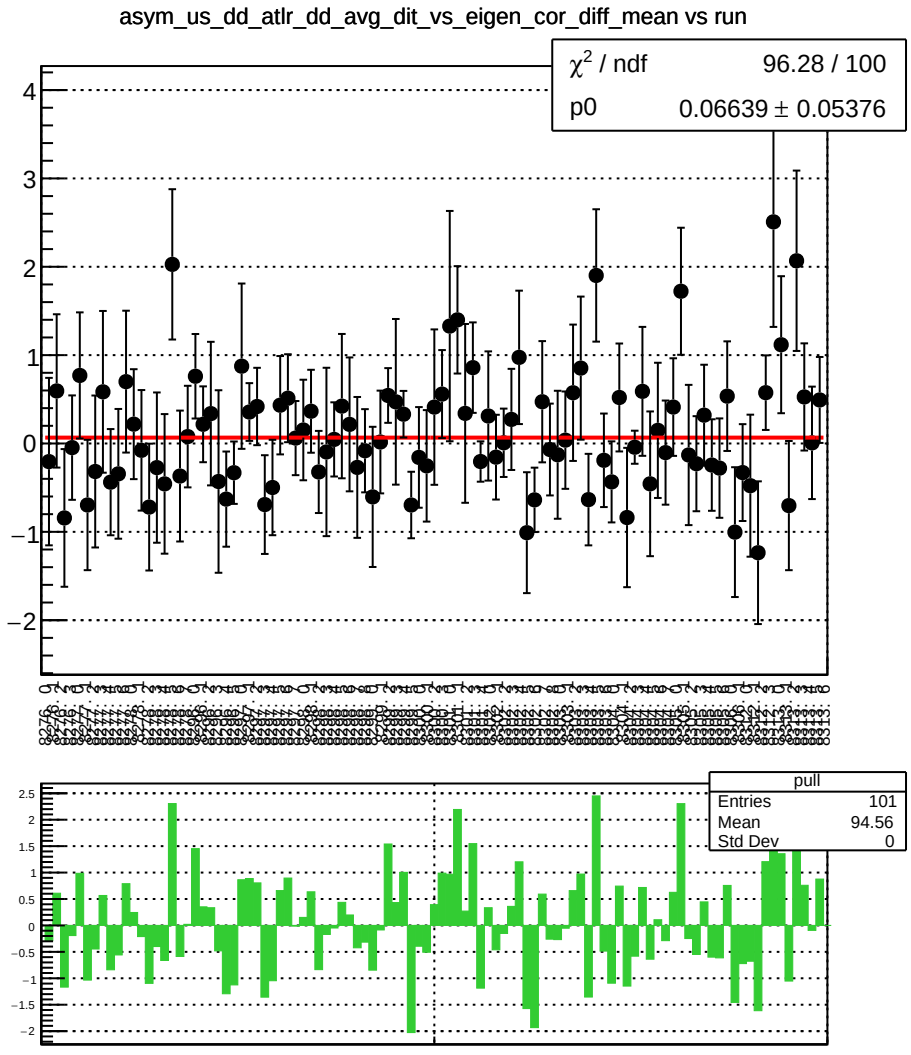

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 109.1 / 100
p0 1.496e−13 ± 2.906e−13
0.03
0.02
0.01
0
−0.01
pull
Entries 101
Mean 47.73
Std Dev 36.43
pull1D
Entries 101
Mean −0.203
Std Dev 1.019

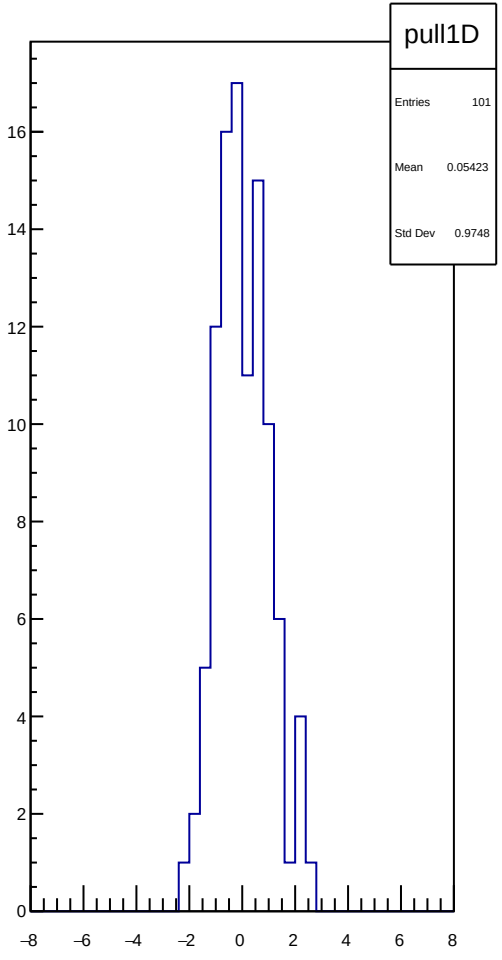

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.112e+06 / 100
p0 1.856e−10 ± 2.055e−13
1
0.8
0.6
0.4
0.2
0

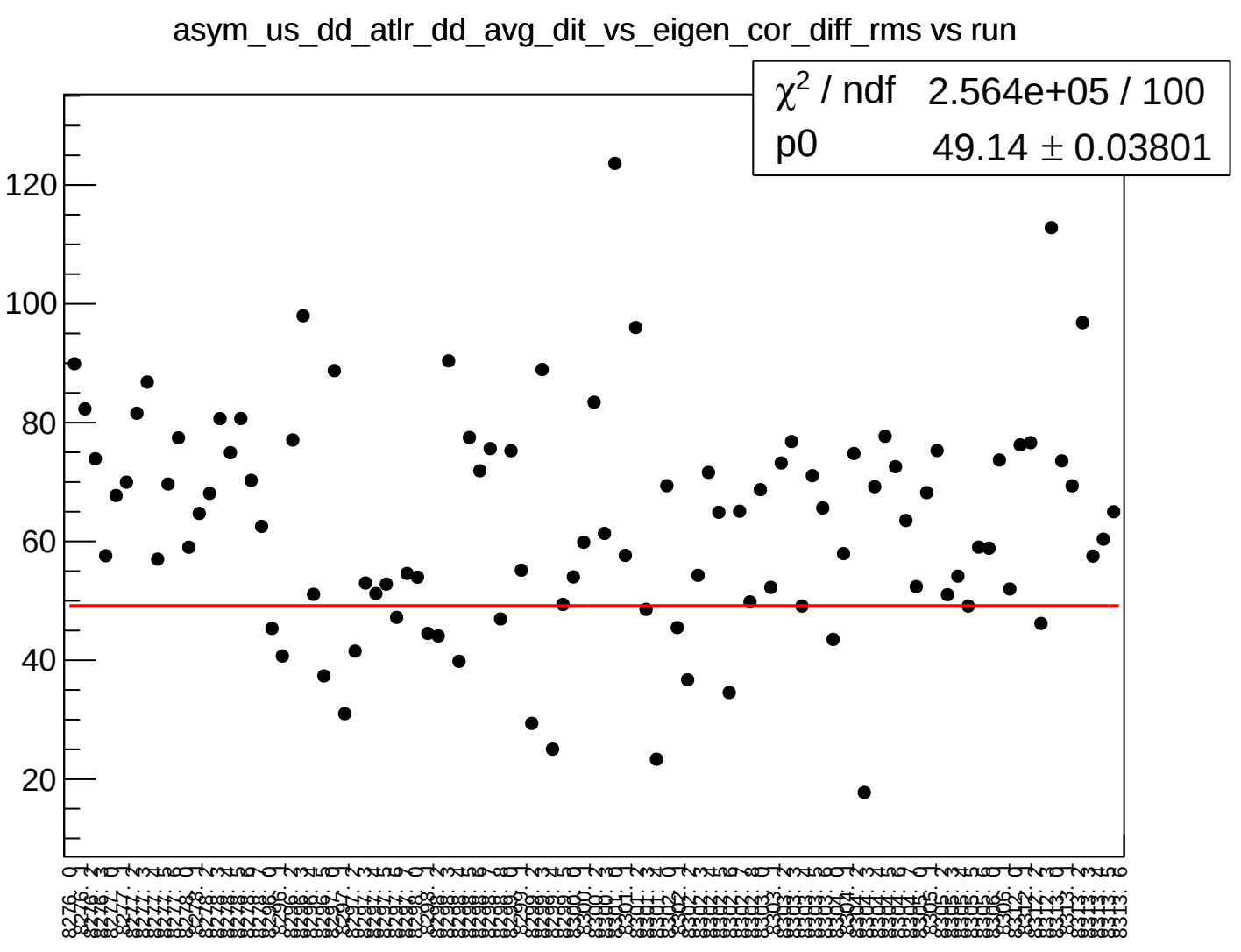

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 96.28 / 100
p0 0.06639 ± 0.05376
pull
Entries 101
Mean 94.56
Std Dev 0

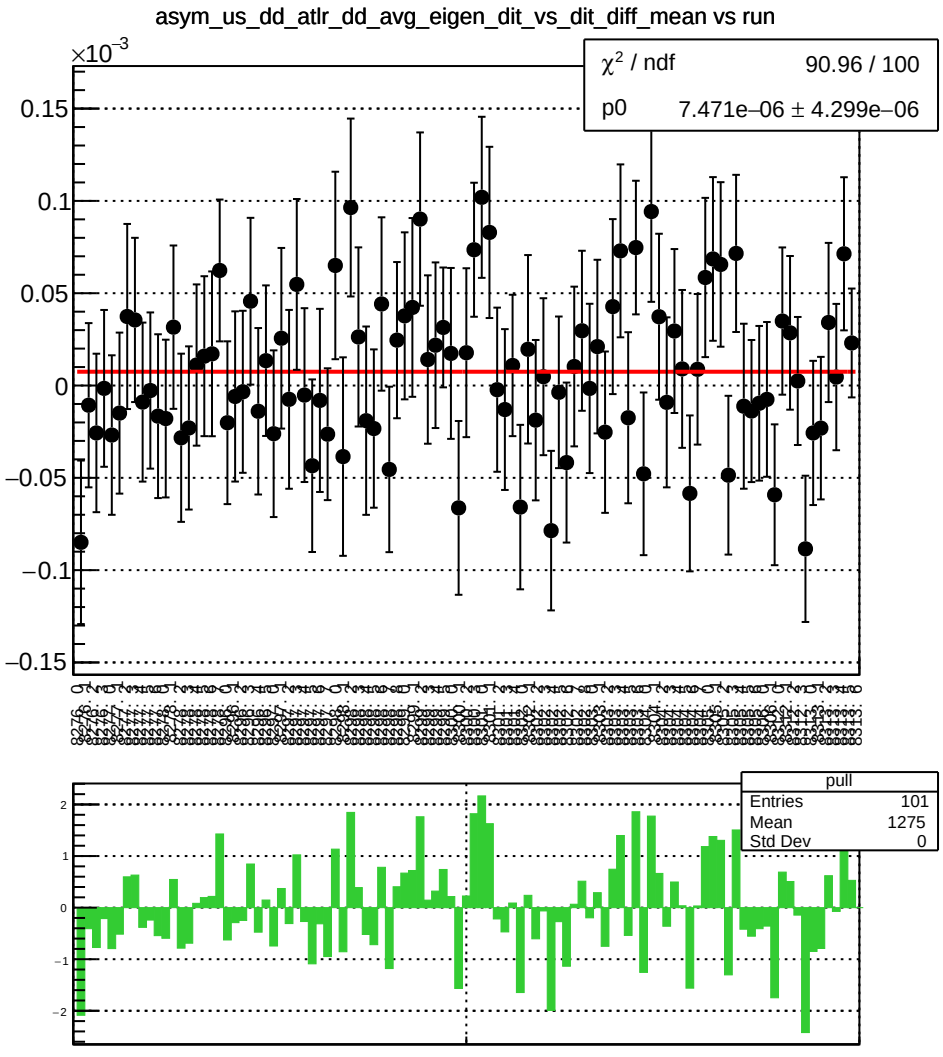

pull1D
Entries 101
Mean 0.05423
Std Dev 0.9748

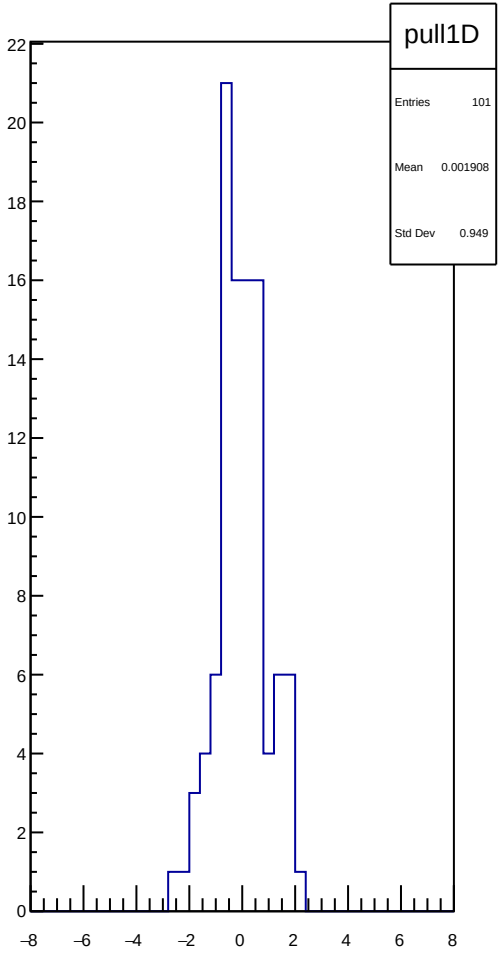

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.564e+05 / 100
p0 49.14 ± 0.03801
120
100
80
60
40
20

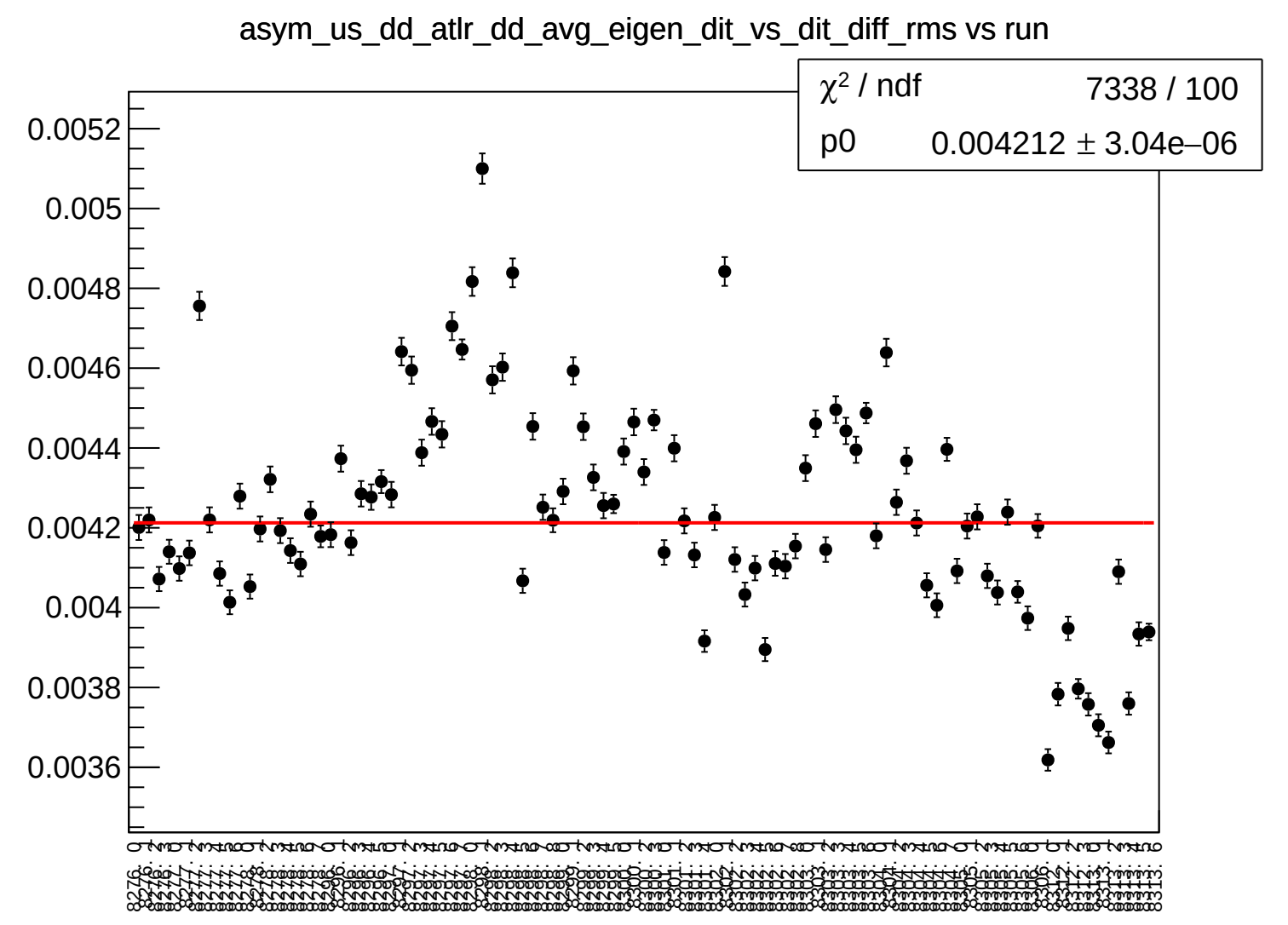

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.28 / 100
p0 0.06639 ± 0.05376
pull
Entries 101
Mean 94.56
Std Dev 0

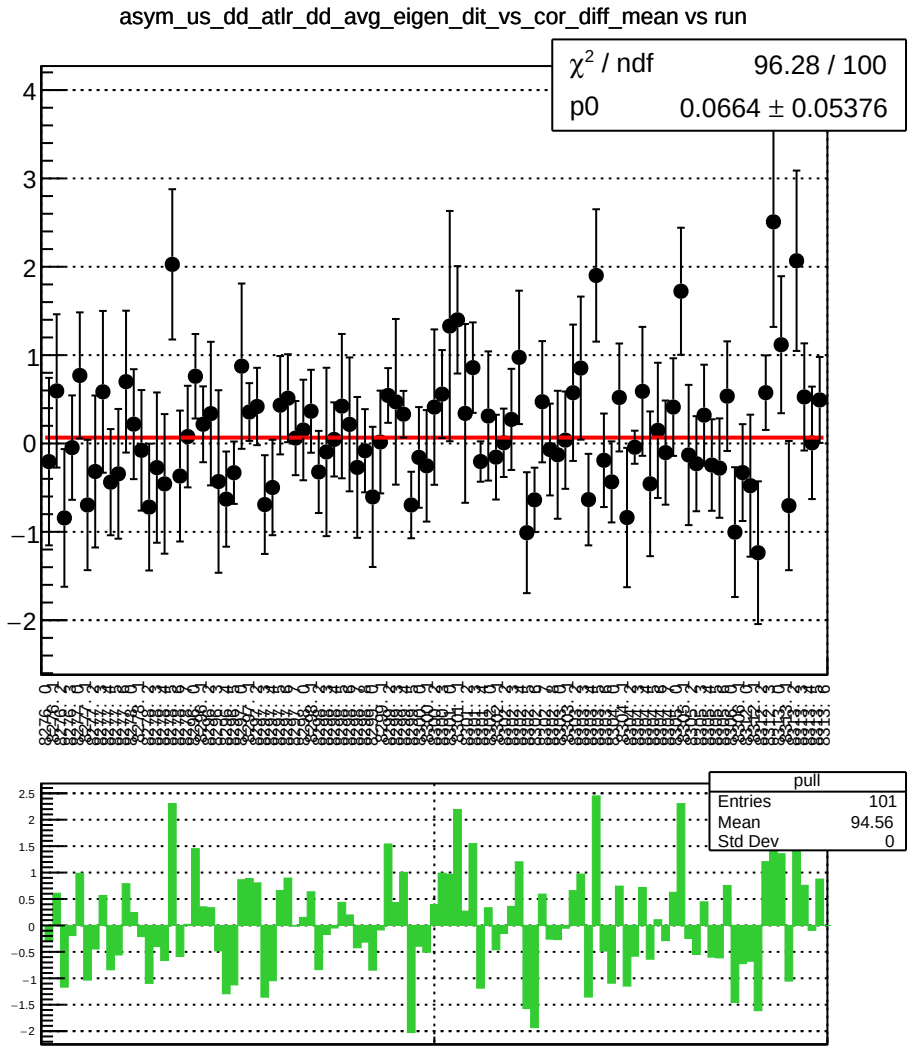

pull1D
Entries 101
Mean 0.05423
Std Dev 0.9748

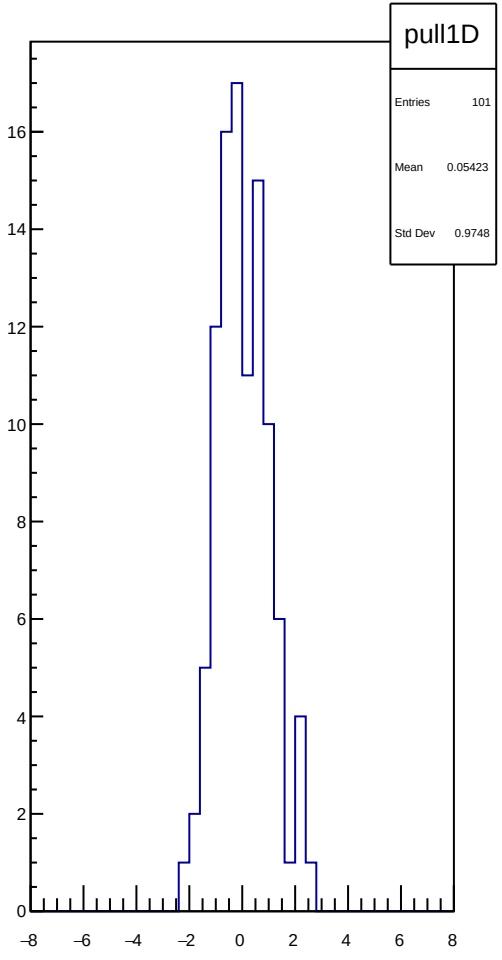

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.564e+05 / 100
p0 49.14 ± 0.03801
120
100
80
60
40
20

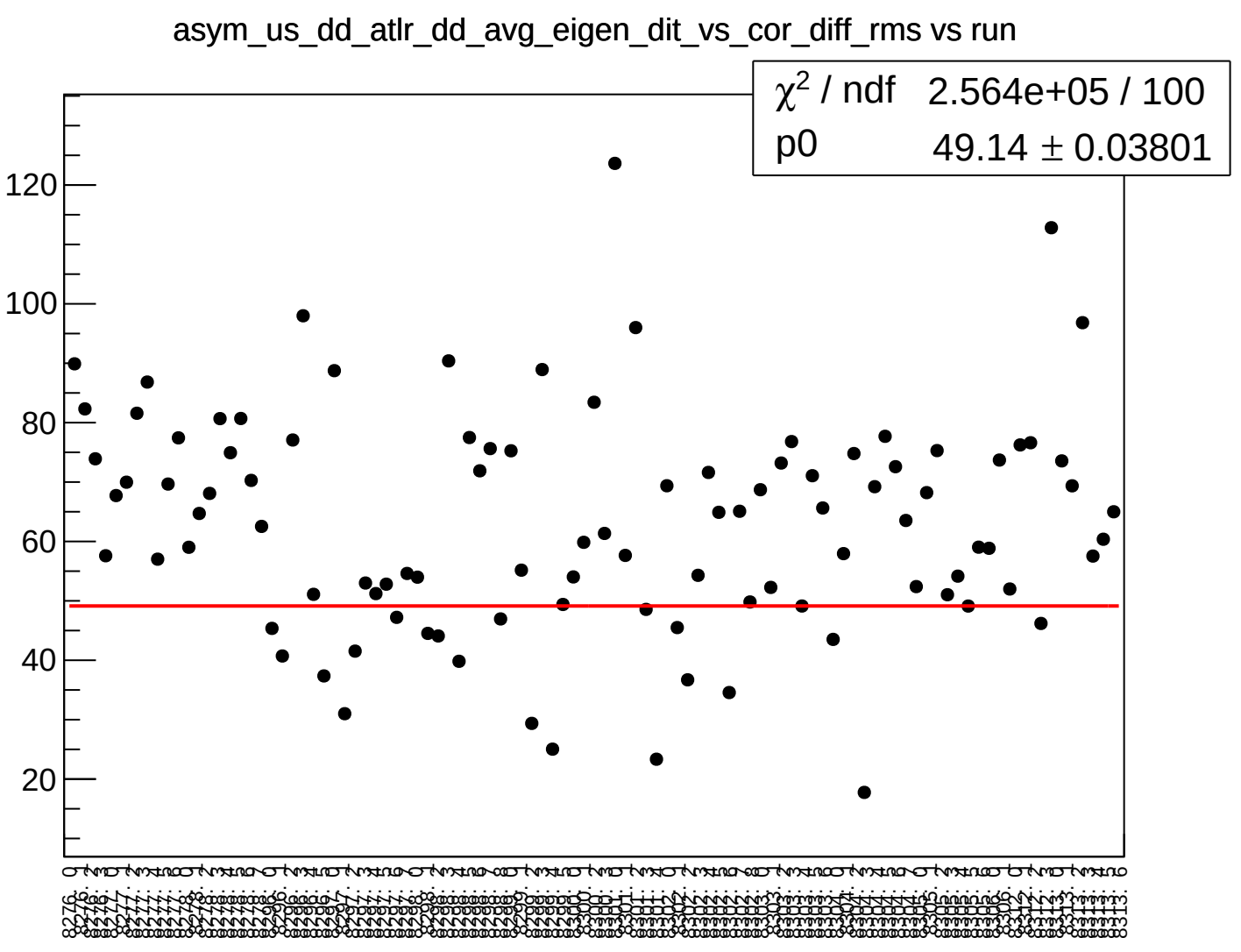

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.96 / 100
p0 7.471e−06 ± 4.299e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 101
Mean 1275
Std Dev 0
2
1
0
−1
−2

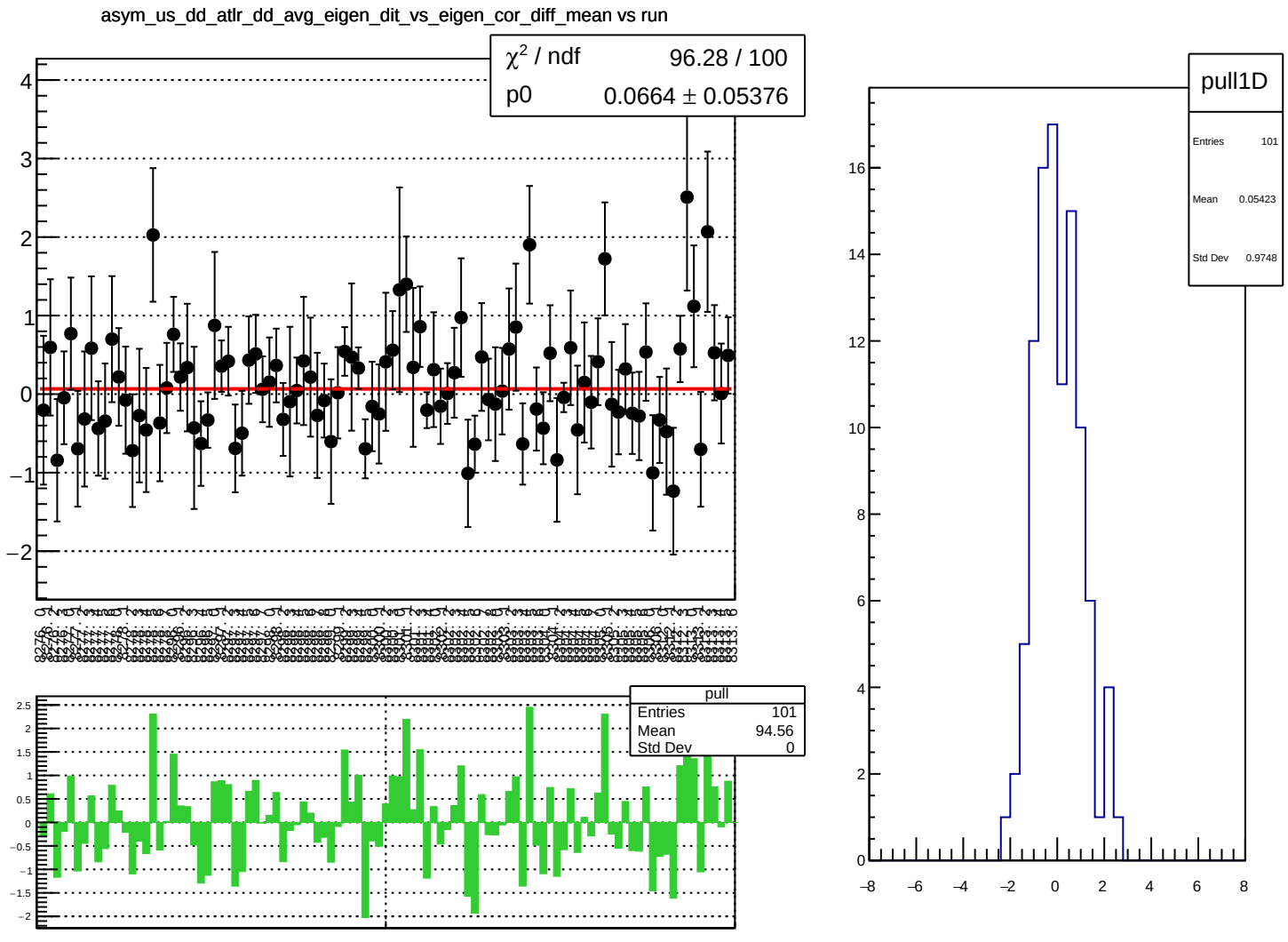

pull1D
Entries 101
Mean 0.001908
Std Dev 0.949
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

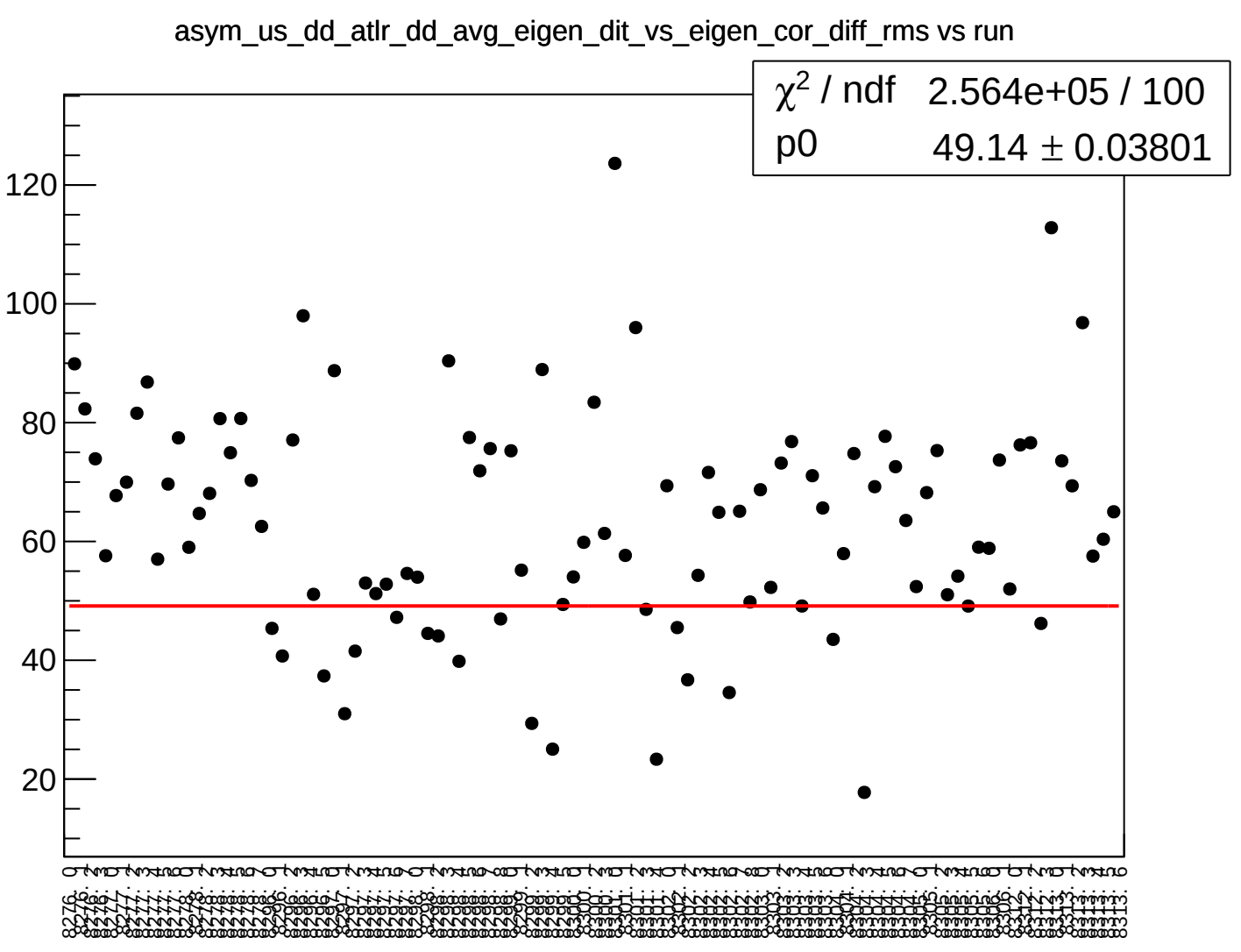

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7338 / 100
p0 0.004212 ± 3.04e−06
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036

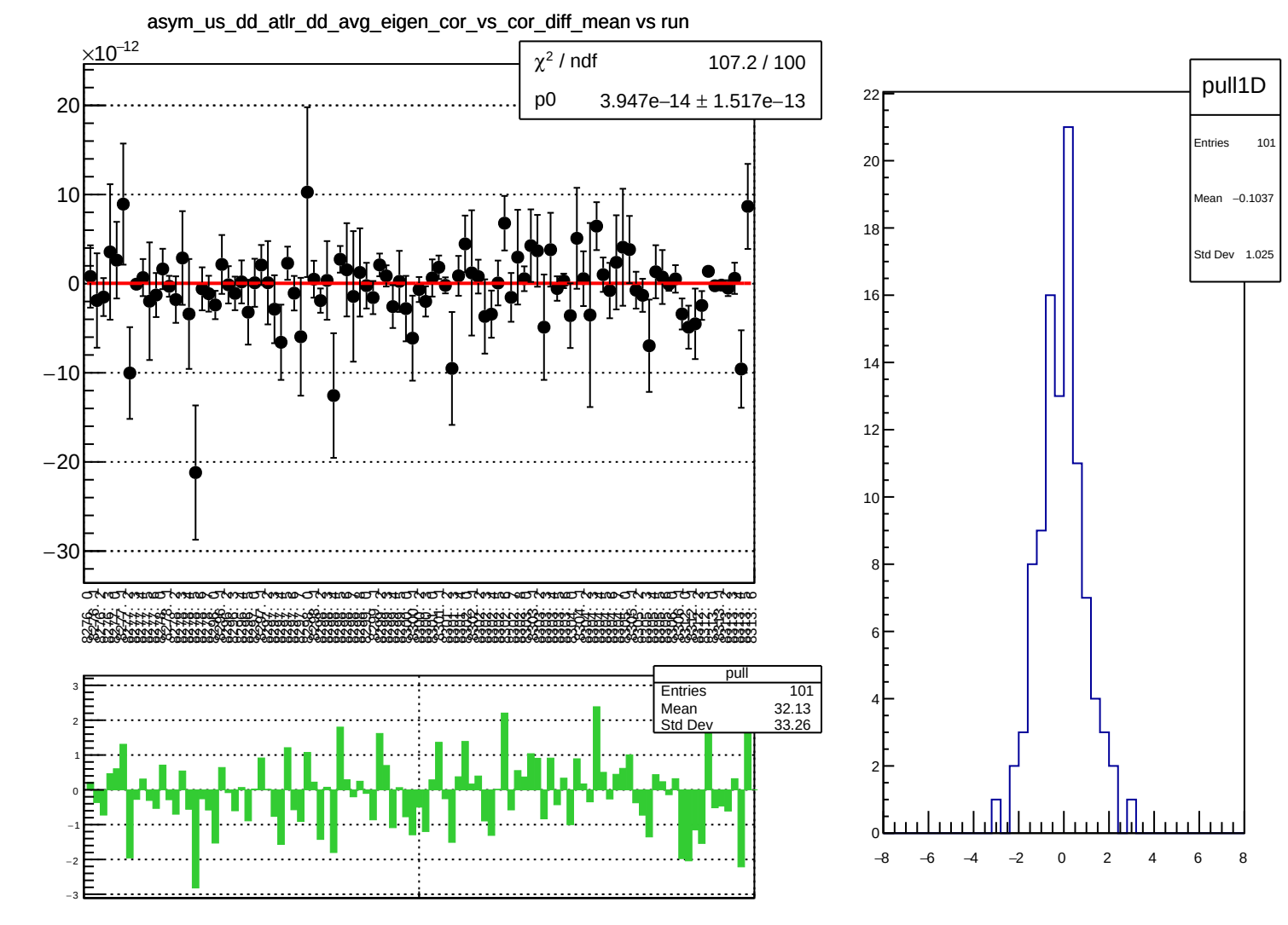

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.28 / 100
p0 0.0664 ± 0.05376
pull
Entries 101
Mean 94.56
Std Dev 0

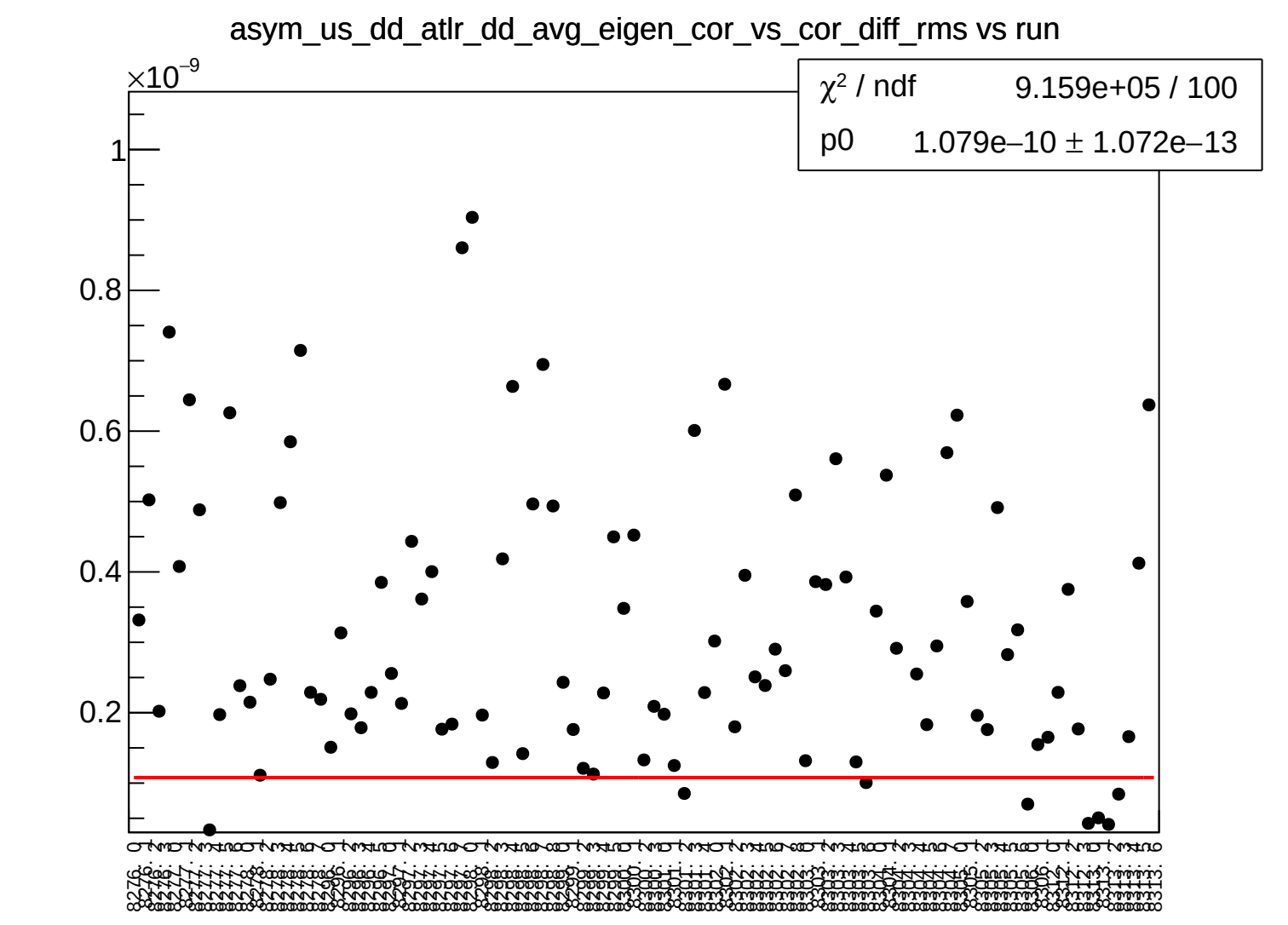

pull1D
Entries 101
Mean 0.05423
Std Dev 0.9748

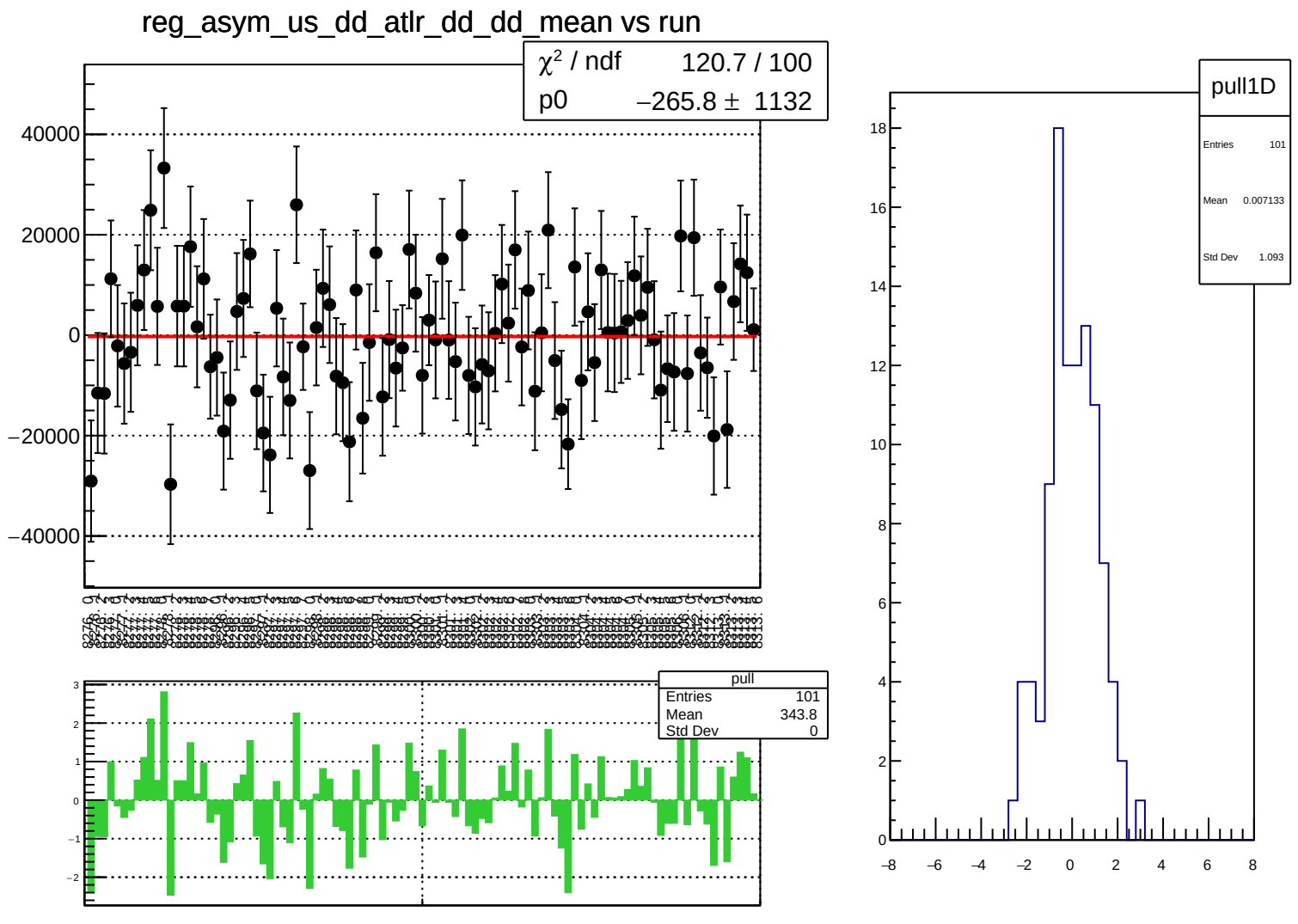

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.564e+05 / 100
p0 49.14 ± 0.03801
120
100
80
60
40
20

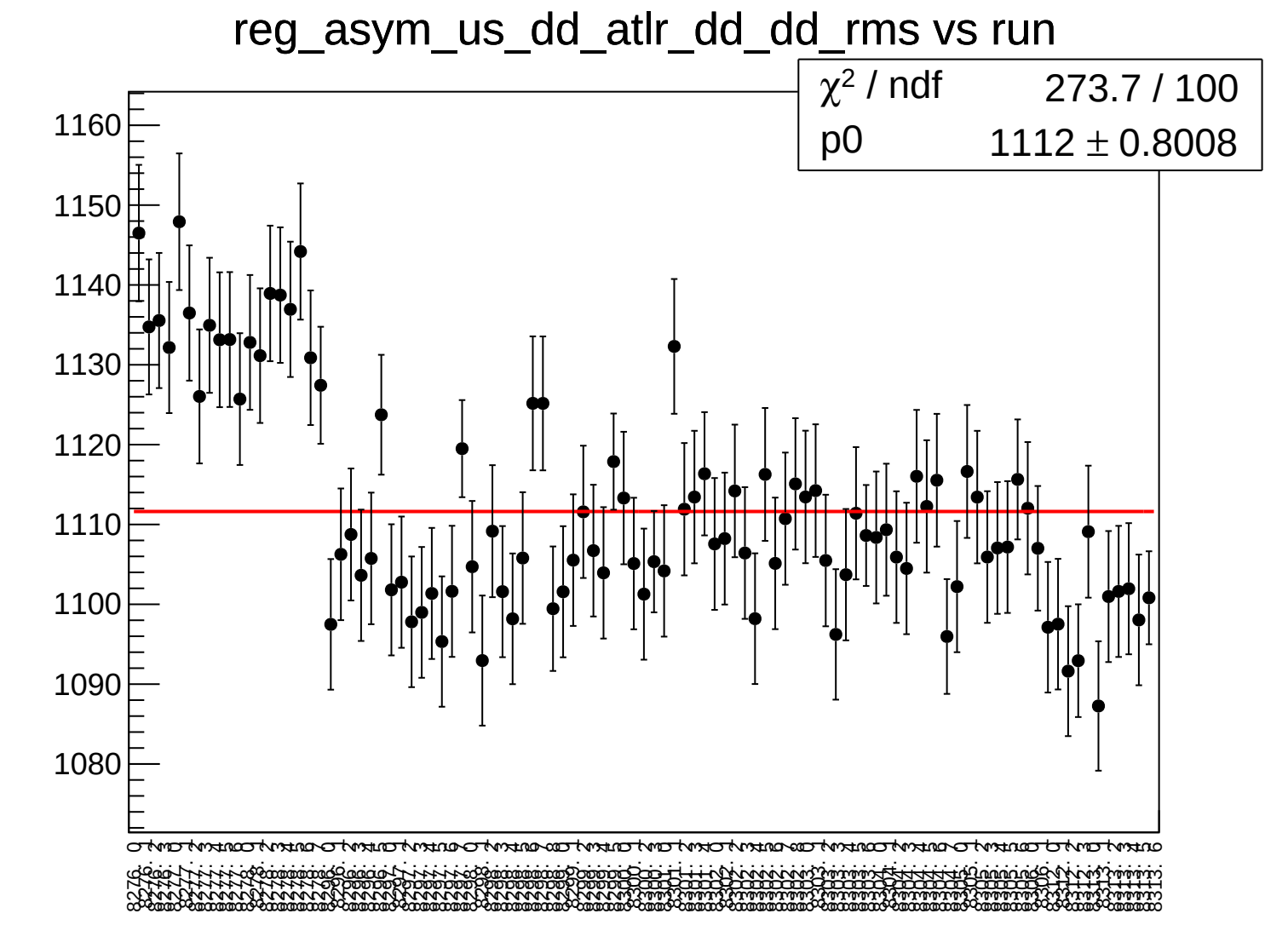

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.28 / 100
p0 0.0664 ± 0.05376
pull
Entries 101
Mean 94.56
Std Dev 0
pull1D
Entries 101
Mean 0.05423
Std Dev 0.9748

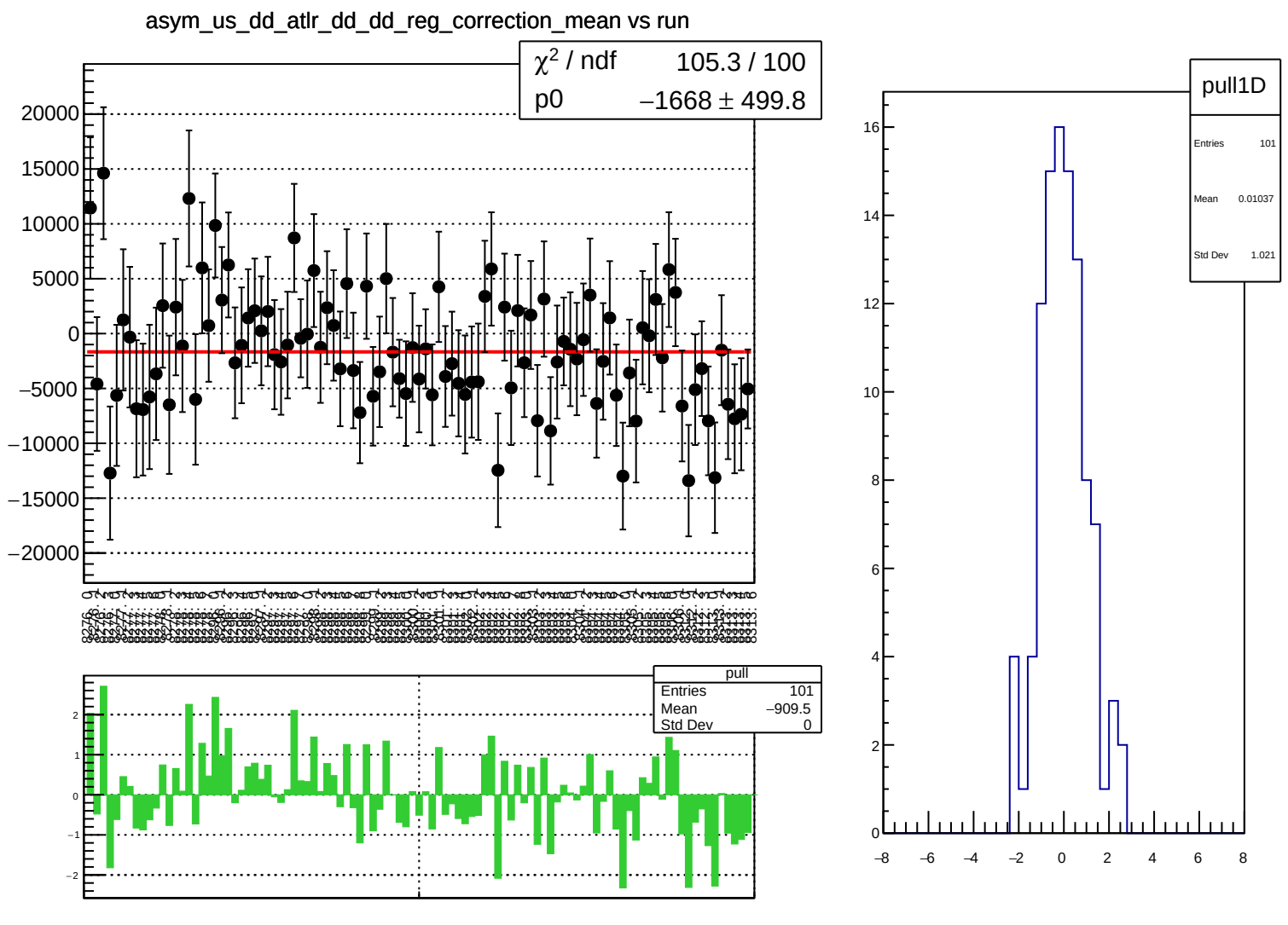

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.564e+05 / 100
p0 49.14 ± 0.03801
120
100
80
60
40
20

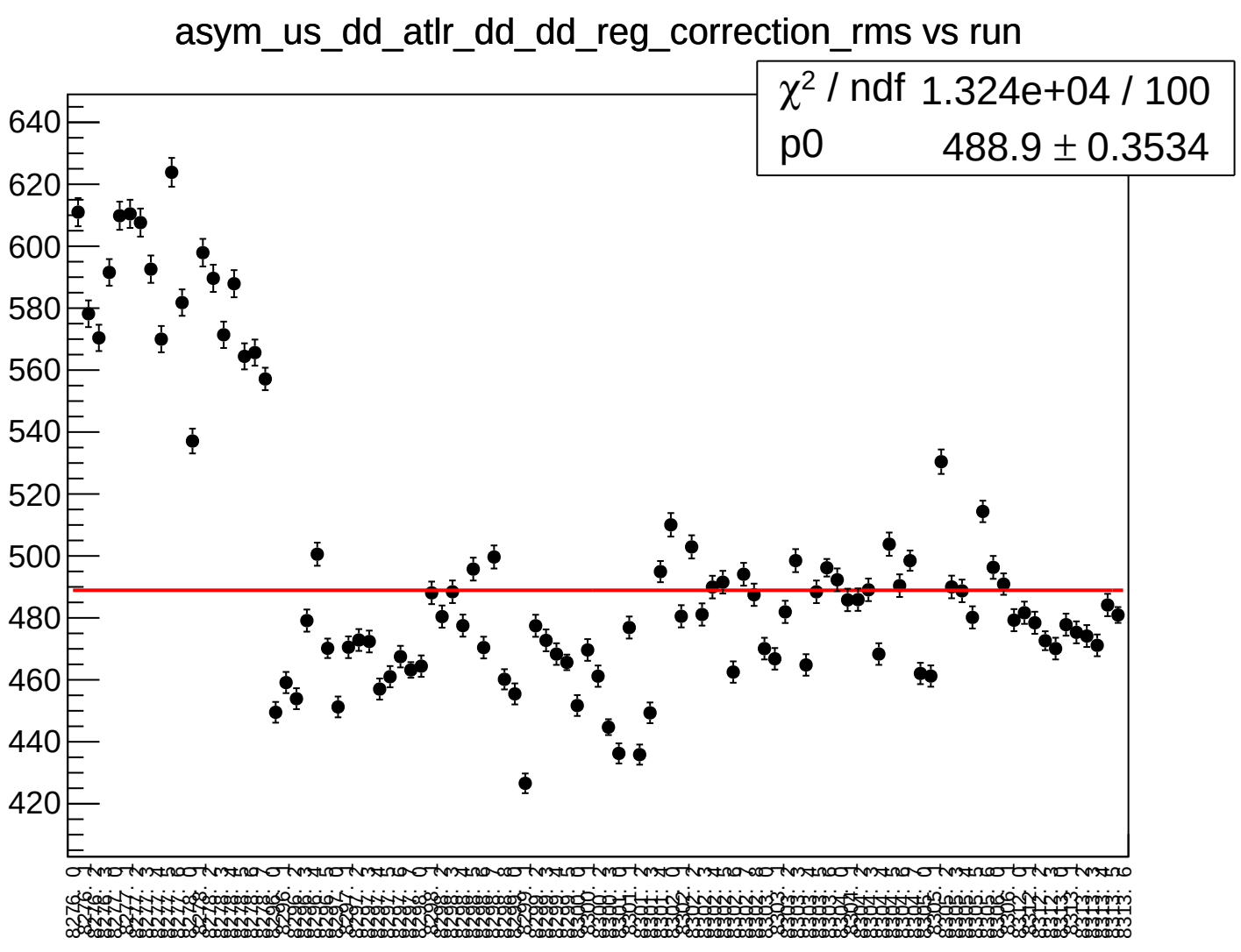

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 107.2 / 100
p0 3.947e−14 ± 1.517e−13
pull
Entries 101
Mean 32.13
Std Dev 33.26
pull1D
Entries 101
Mean −0.1037
Std Dev 1.025

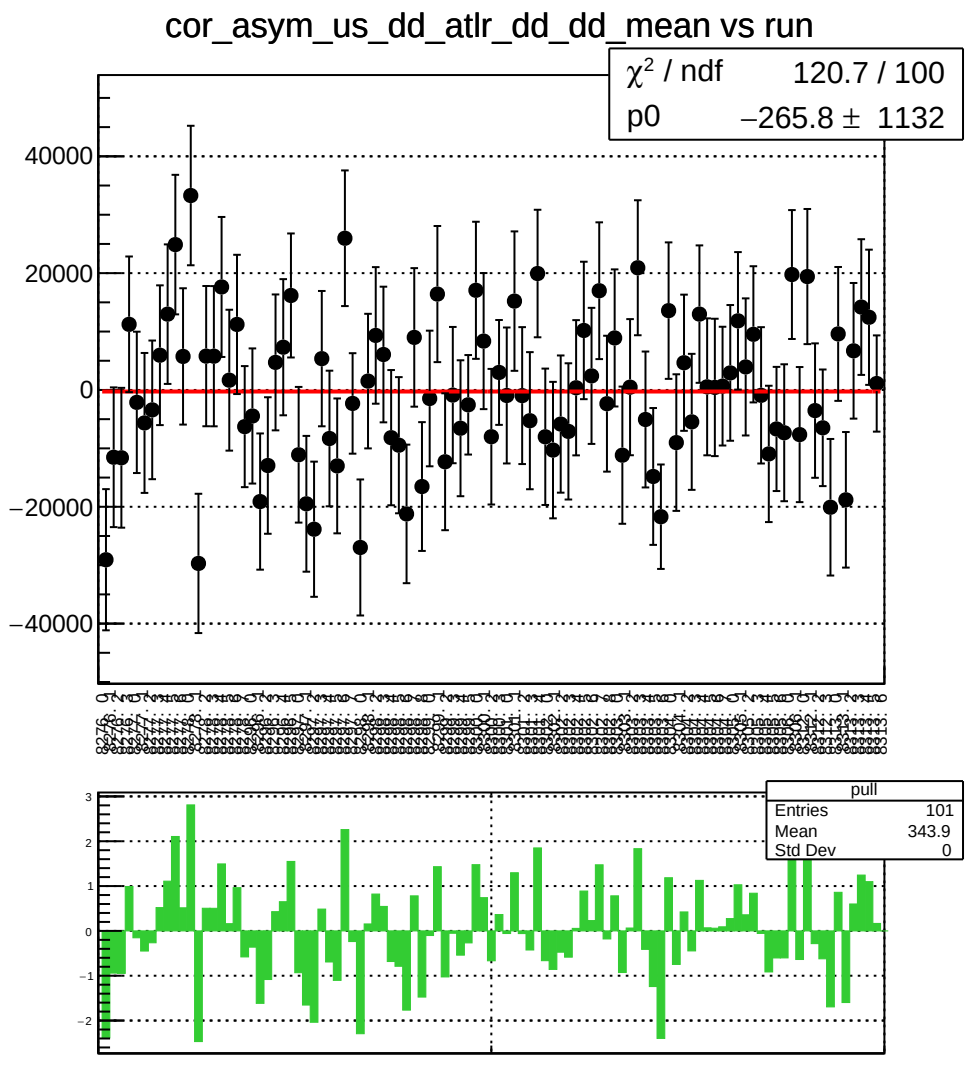

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.159e+05 / 100
p0 1.079e−10 ± 1.072e−13
1
0.8
0.6
0.4
0.2

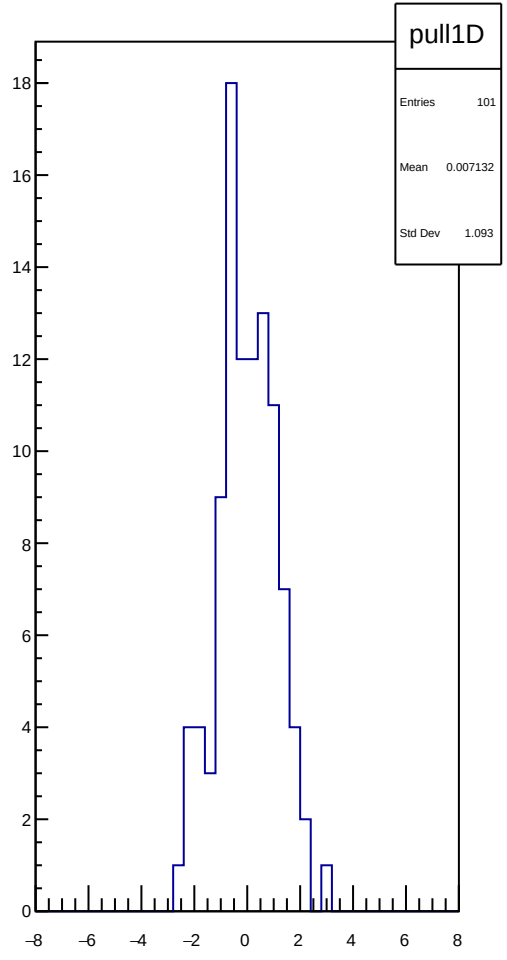

reg_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 120.7 / 100
p0 −265.8 ± 1132
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 343.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.007133
Std Dev 1.093
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 273.7 / 100
p0 1112 ± 0.8008
1160
1150
1140
1130
1120
1110
1100
1090
1080


asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 105.3 / 100
p0 −1668 ± 499.8
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 101
Mean −909.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.01037
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 1.324e+04 / 100
p0 488.9 ± 0.3534
640
620
600
580
560
540
520
500
480
460
440
420


cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 120.7 / 100
p0 −265.8 ± 1132
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 343.9
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 101
Mean 0.007132
Std Dev 1.093
18
16
14
12
10
8
6
4
2
0
−8
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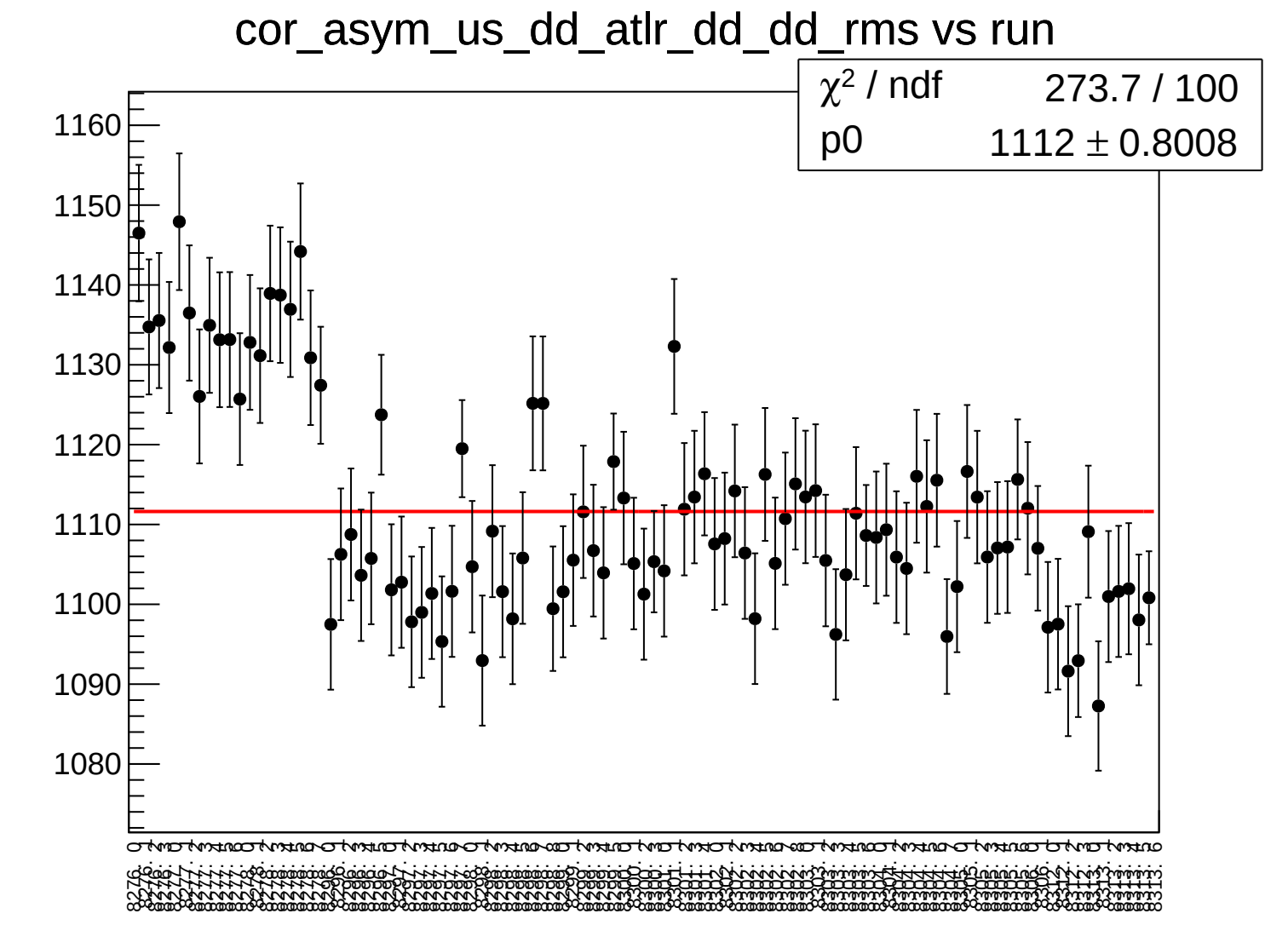
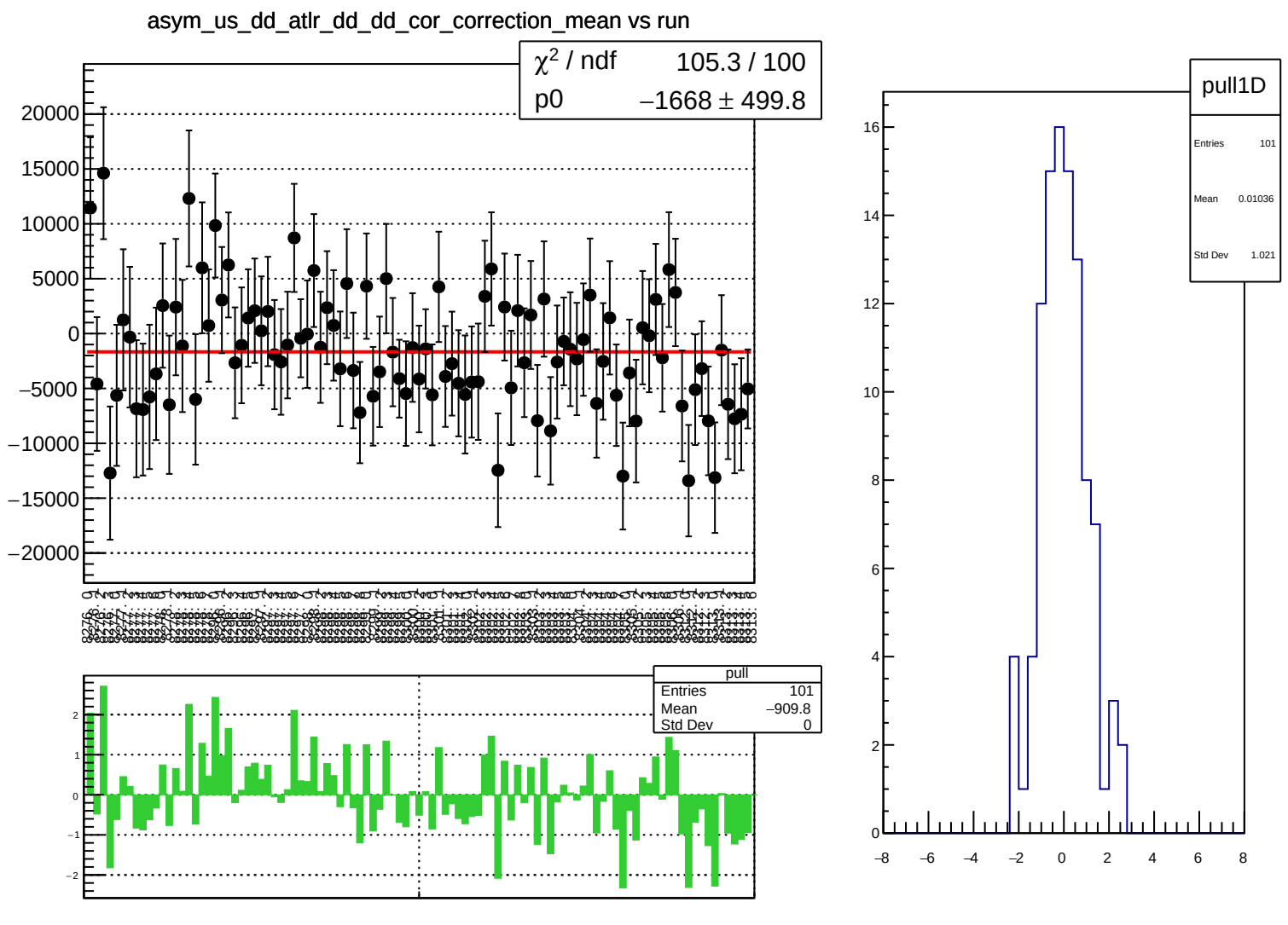
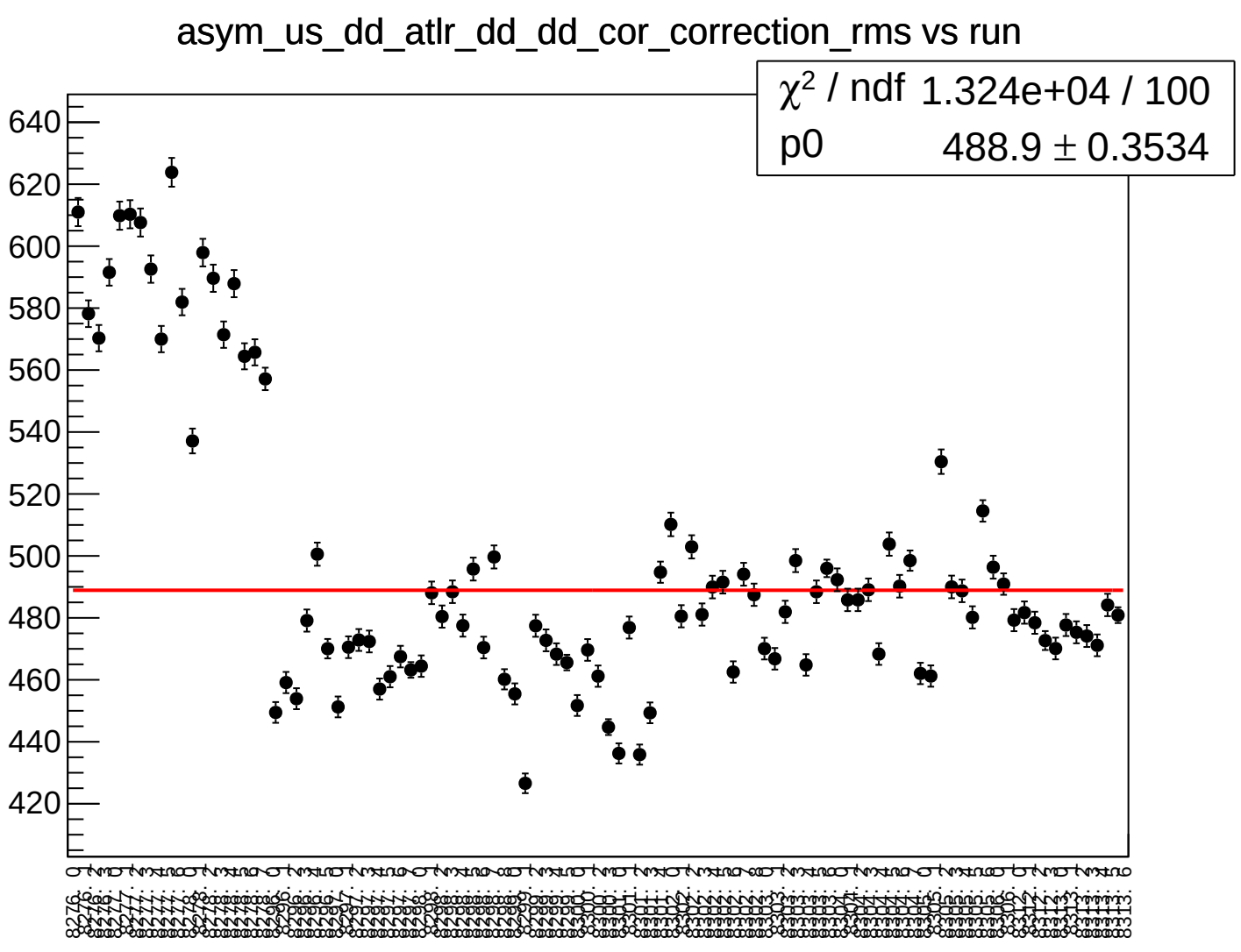
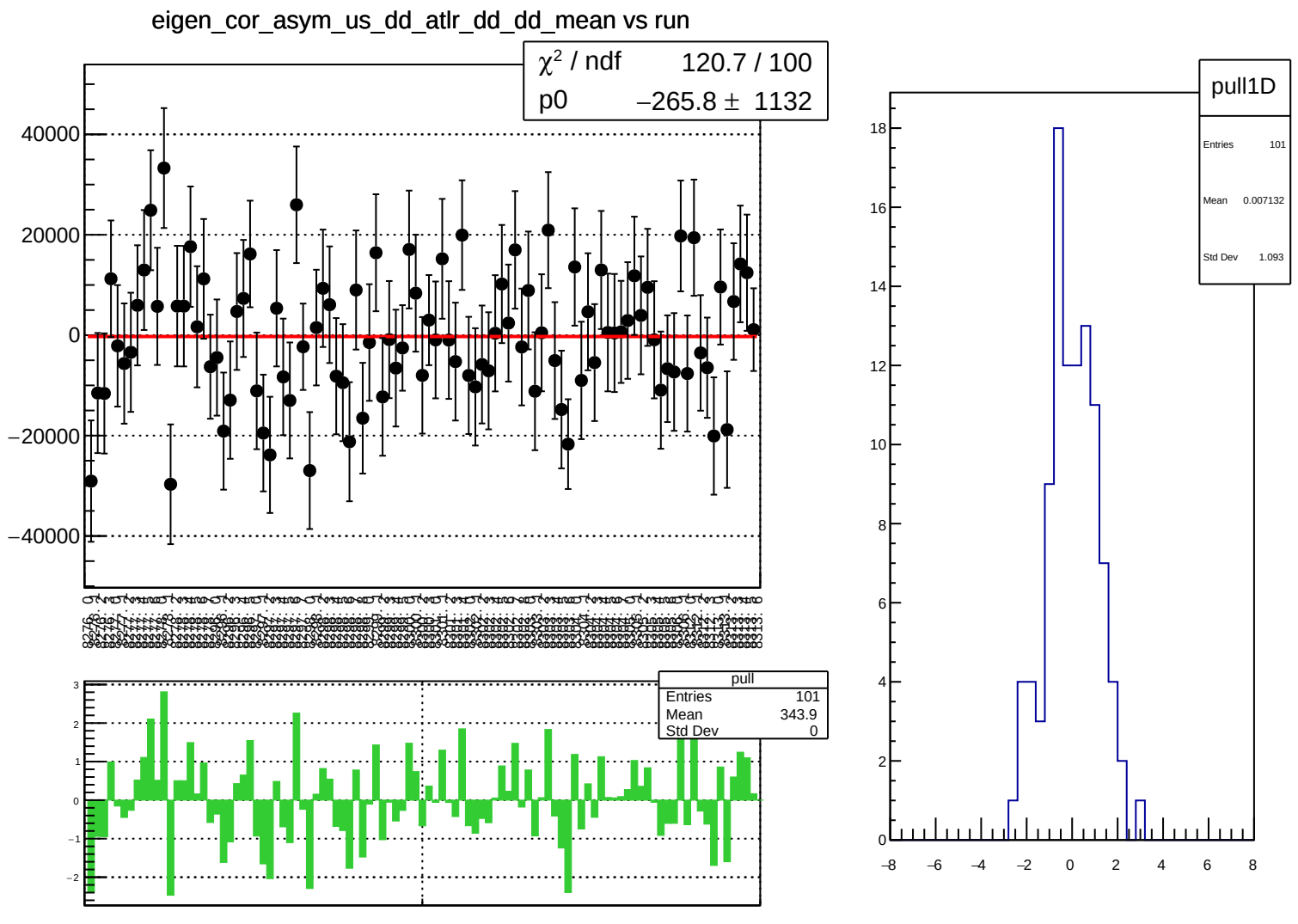
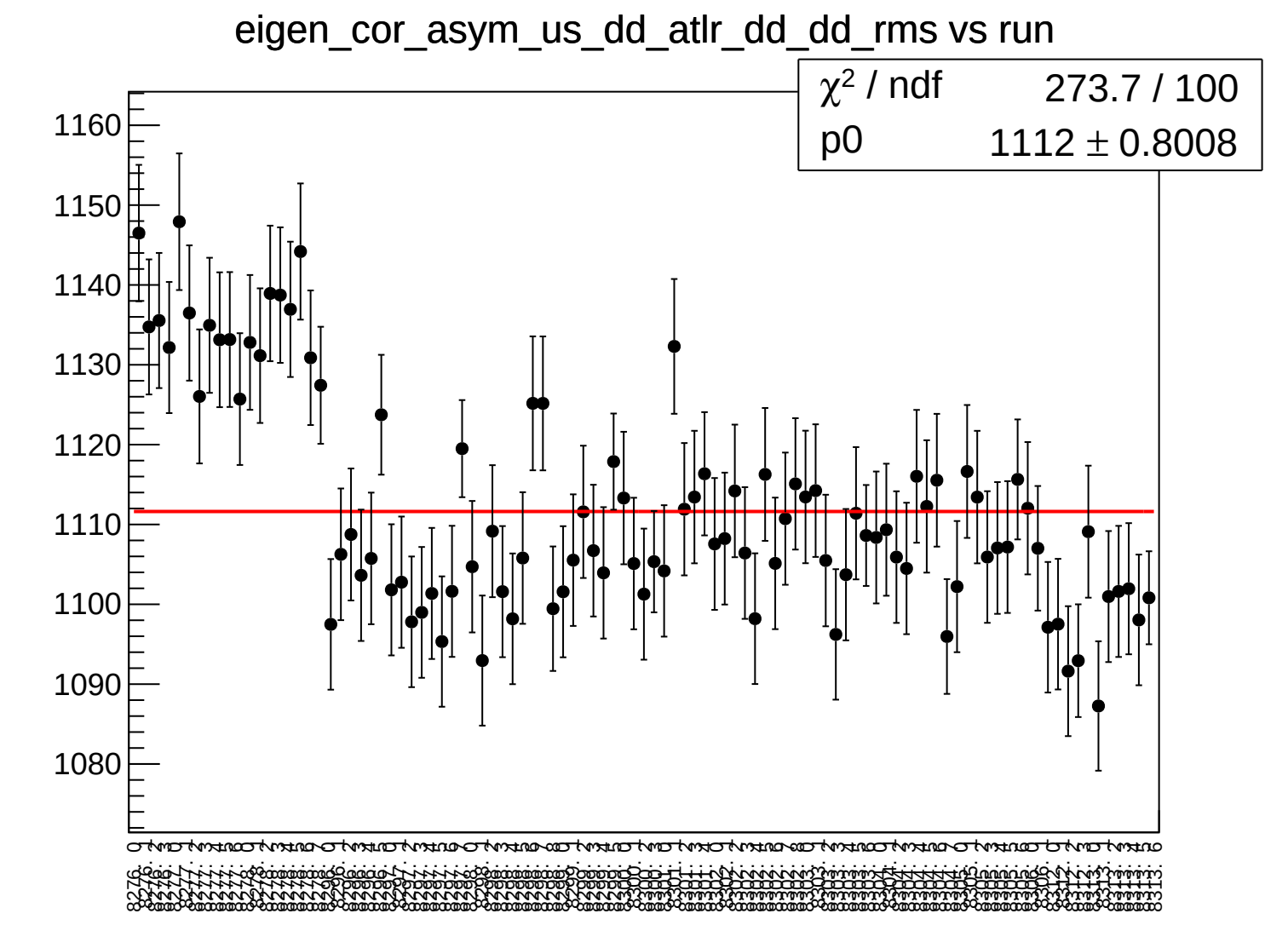
0
2
4
6
8

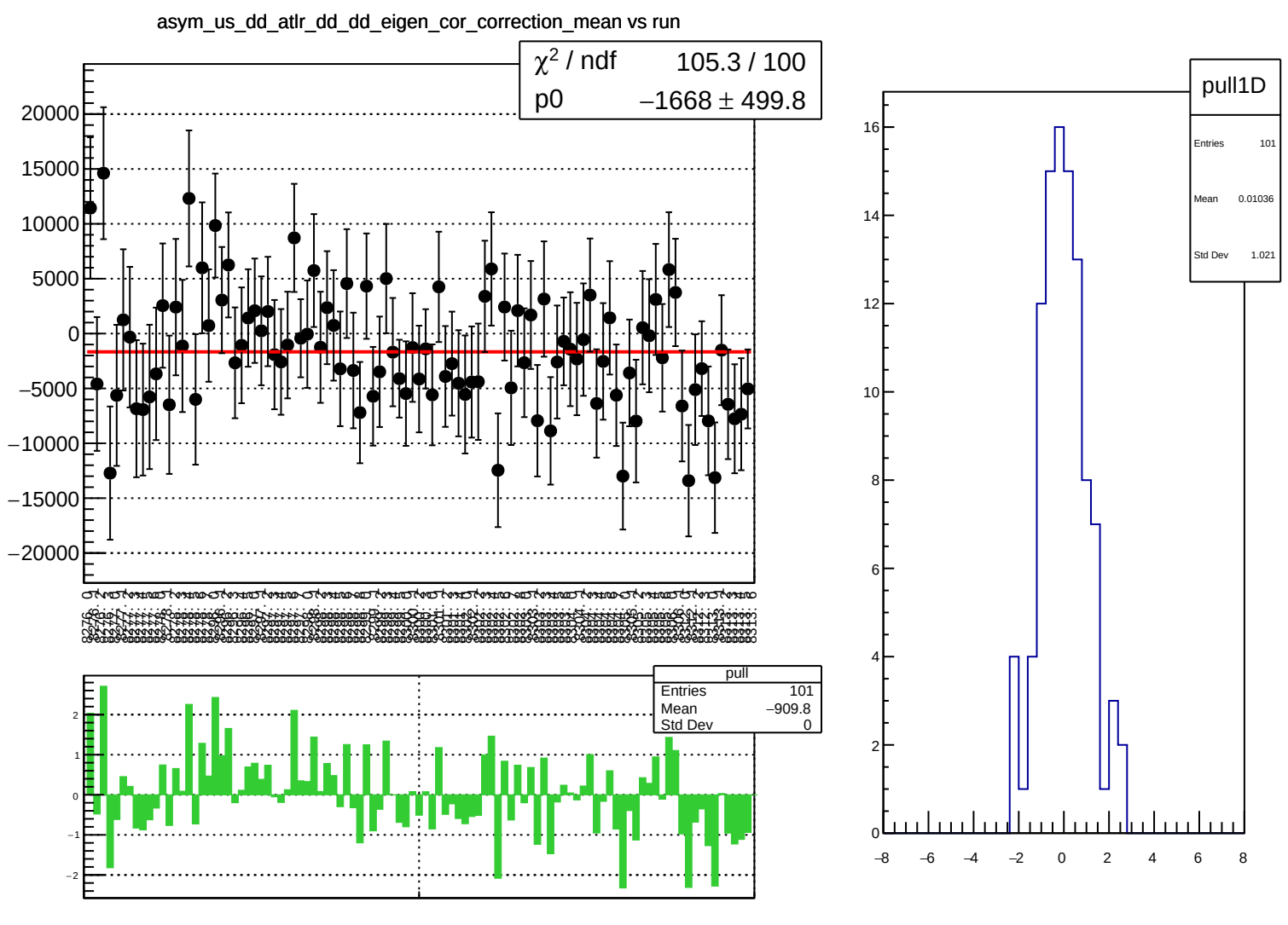

cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 273.7 / 100
p0 1112 ± 0.8008
1160
1150
1140
1130
1120
1110
1100
1090
1080

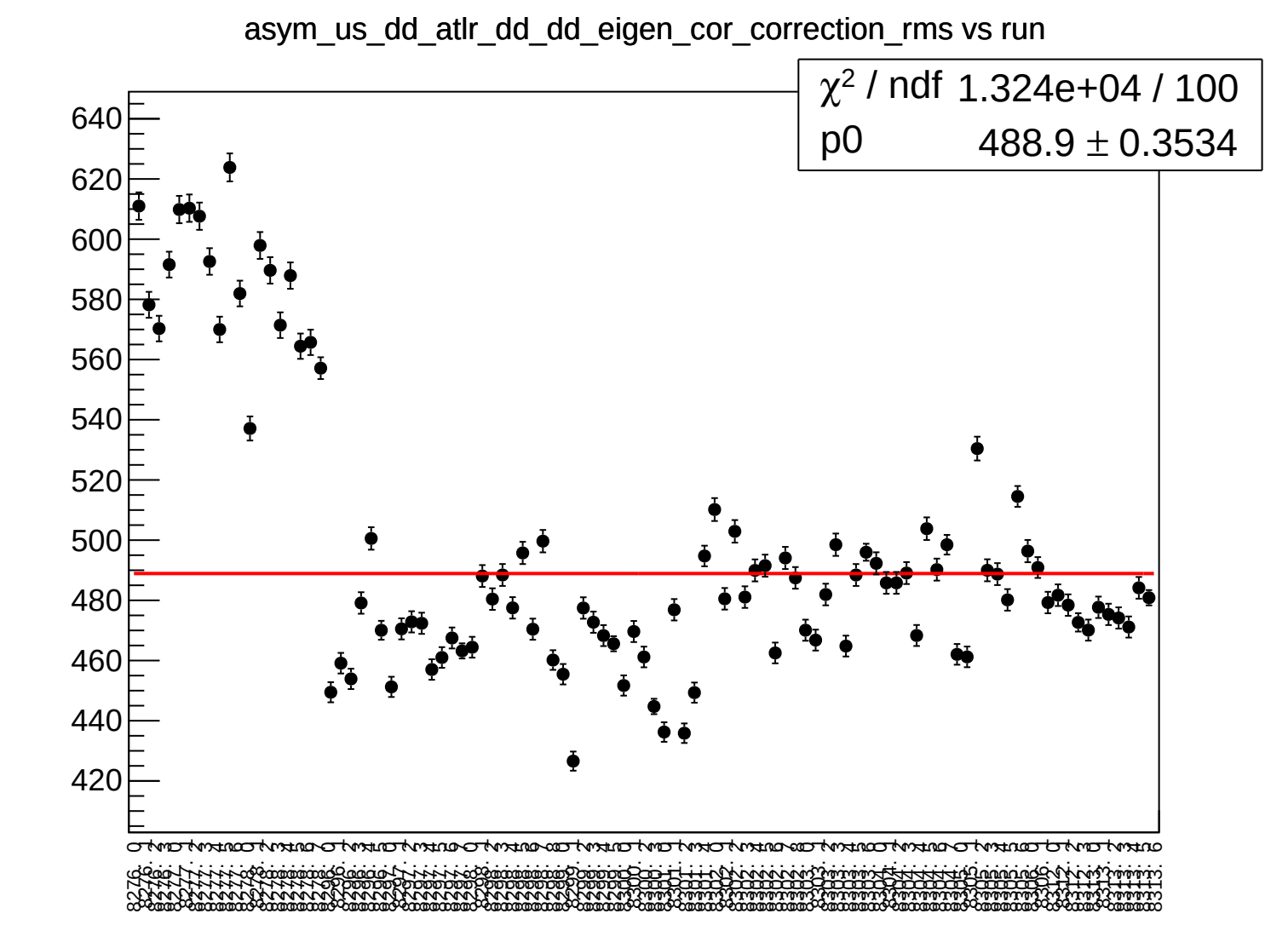

asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 105.3 / 100
p0 −1668 ± 499.8
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 101
Mean −909.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.01036
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

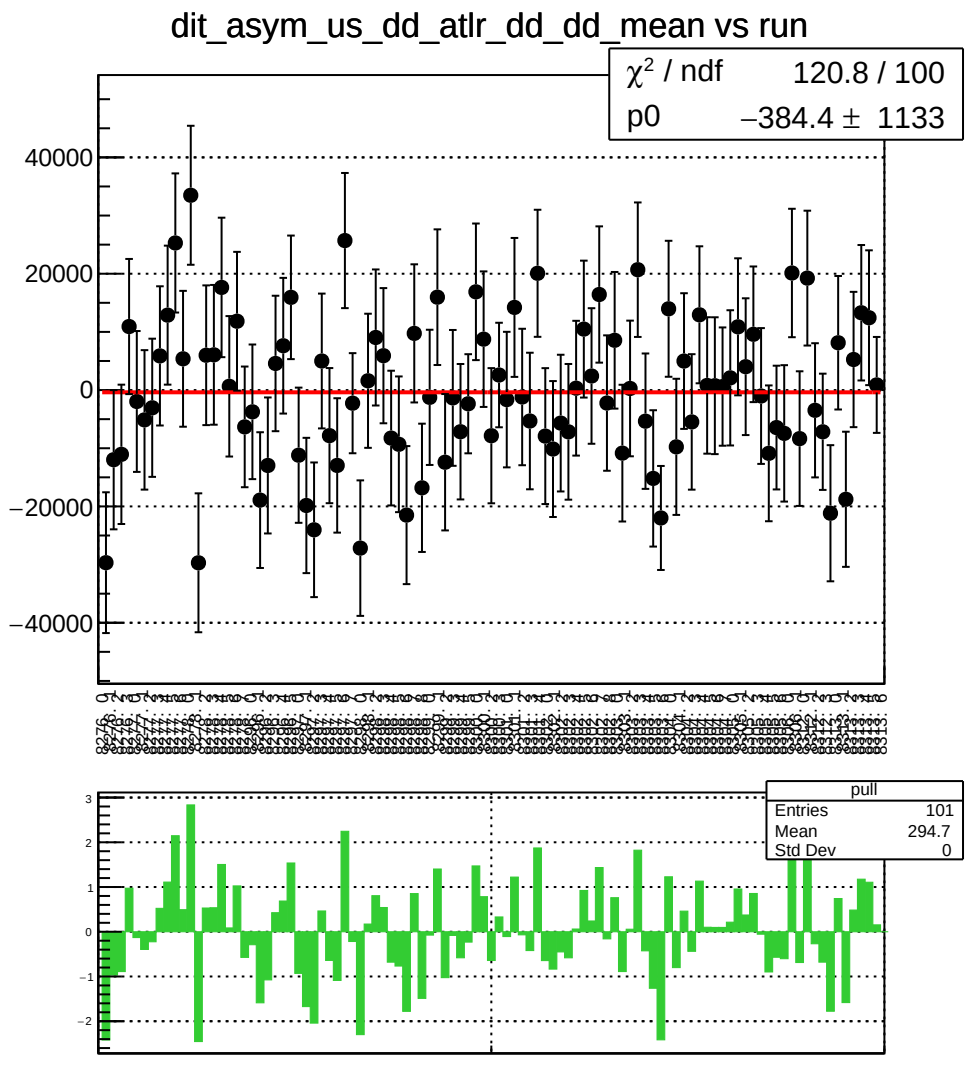

asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 1.324e+04 / 100
p0 488.9 ± 0.3534
640
620
600
580
560
540
520
500
480
460
440
420

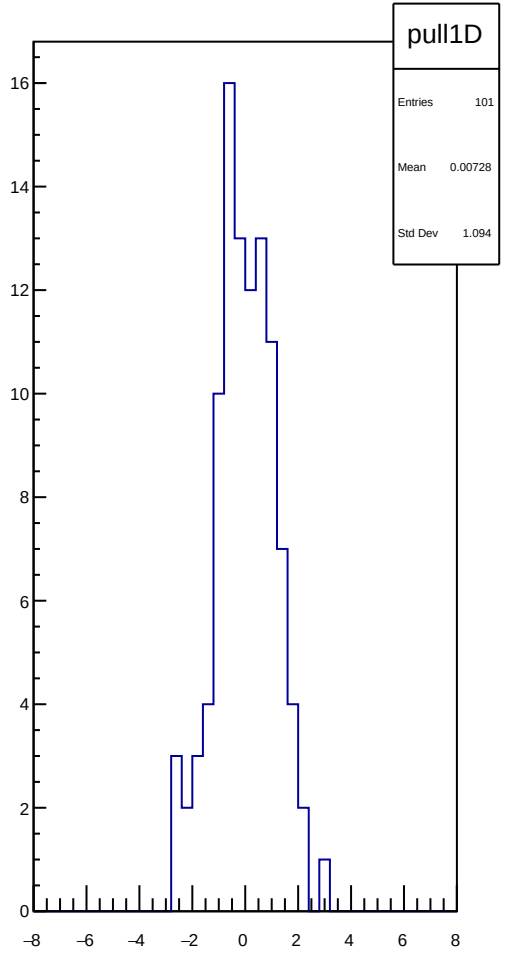

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 120.7 / 100
p0 −265.8 ± 1132
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 343.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.007132
Std Dev 1.093
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

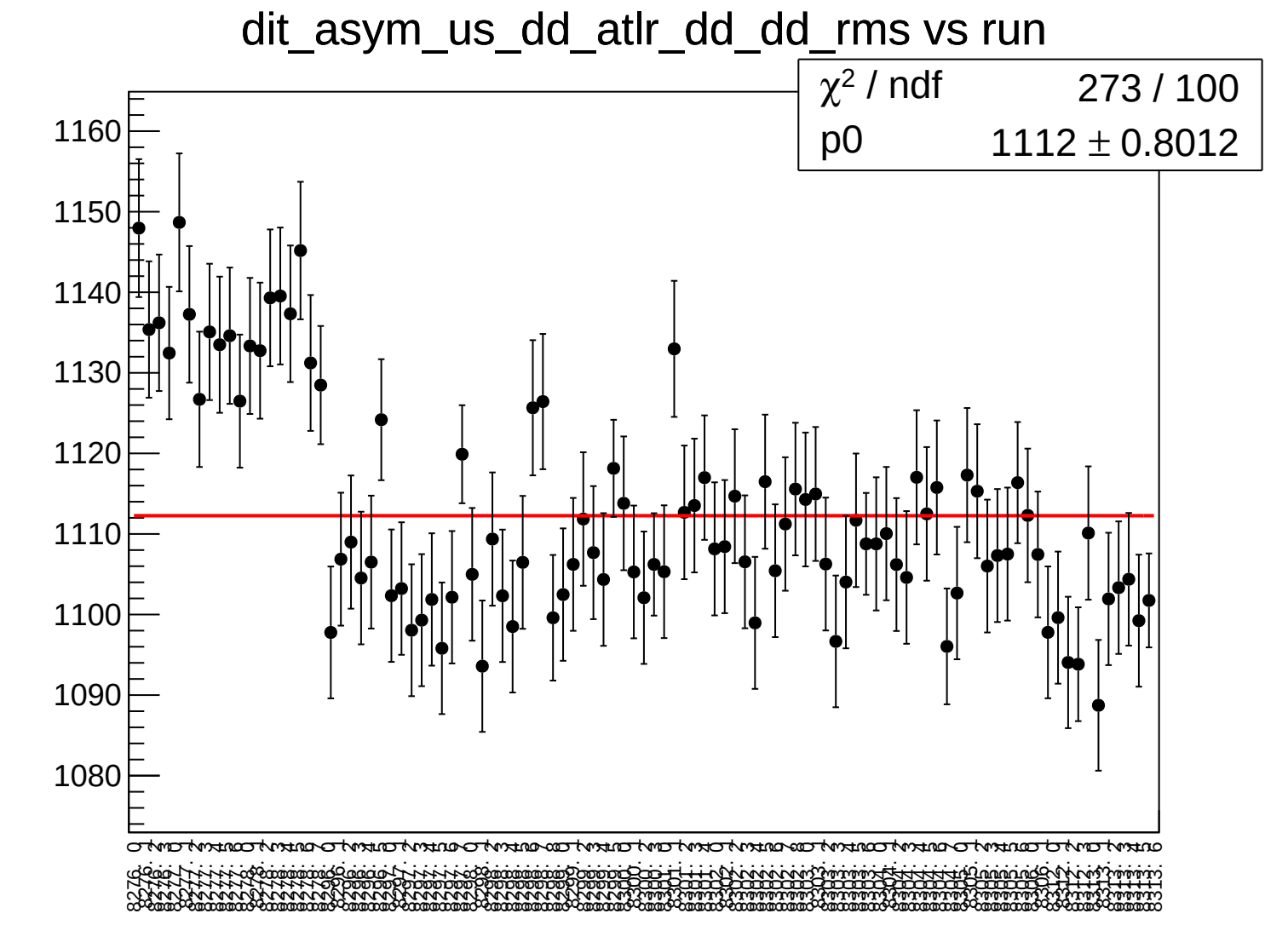

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 273.7 / 100
p0 1112 ± 0.8008
1160
1150
1140
1130
1120
1110
1100
1090
1080

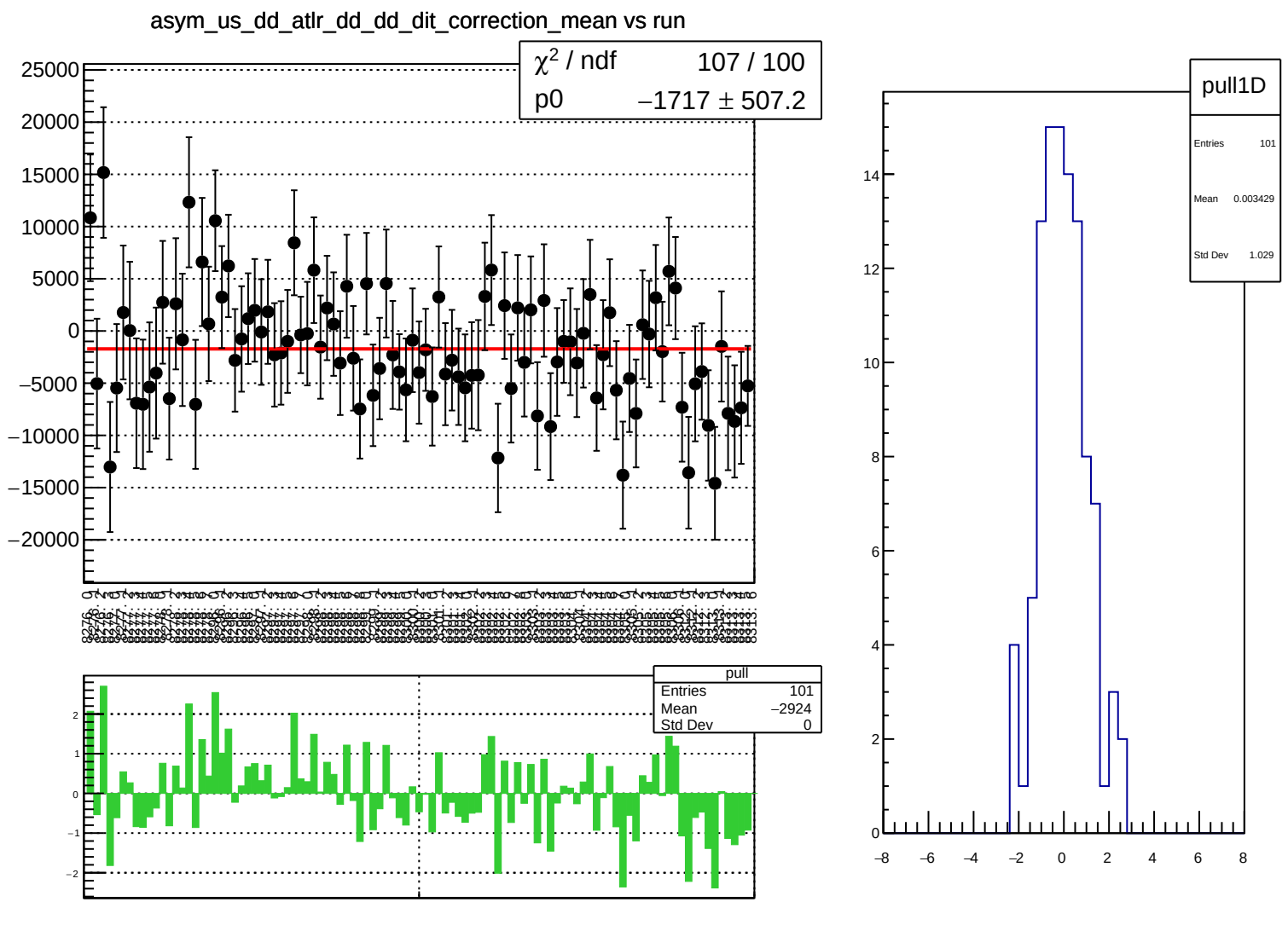

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 105.3 / 100
p0 −1668 ± 499.8
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 101
Mean −909.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.01036
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

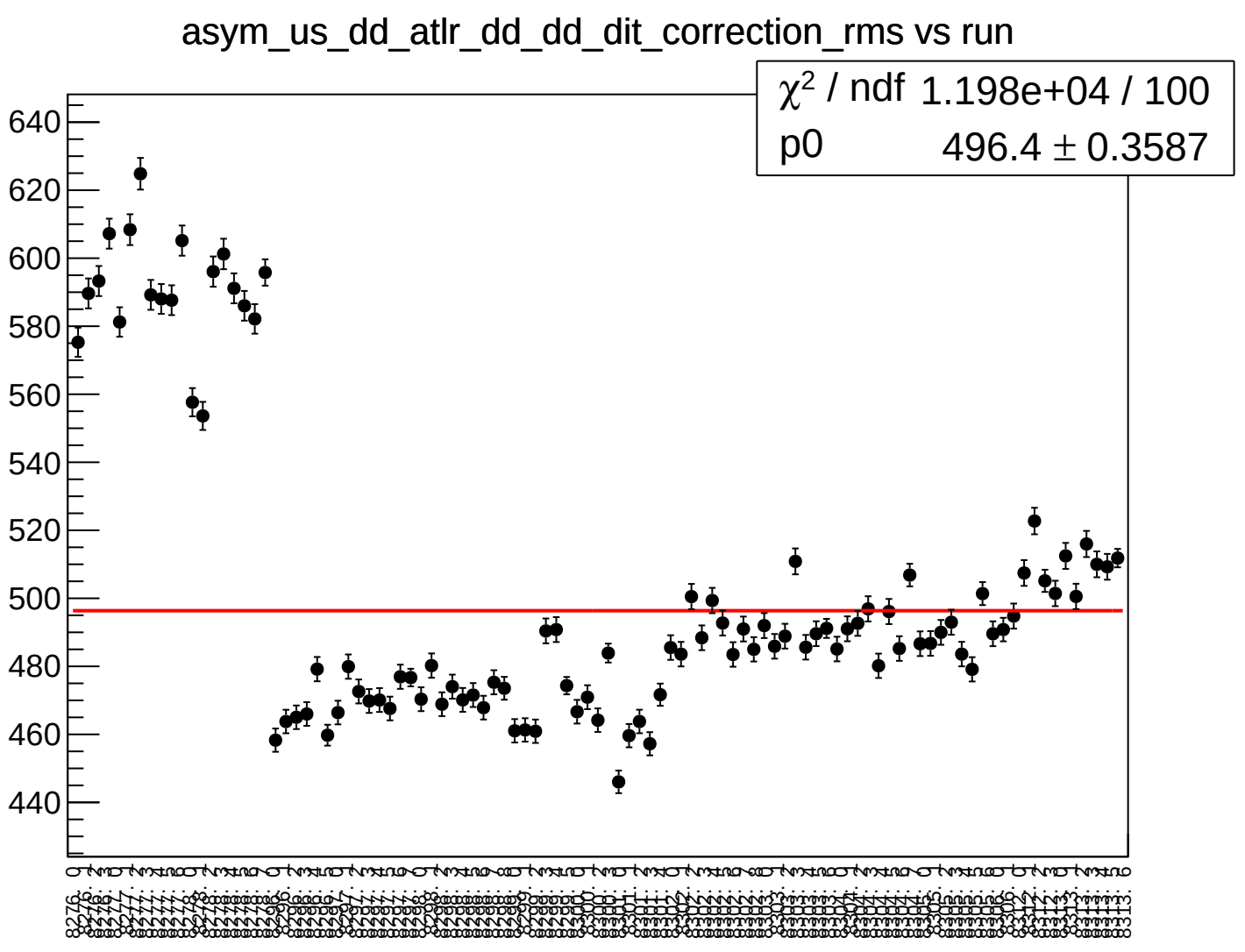

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.324e+04 / 100
p0 488.9 ± 0.3534
640
620
600
580
560
540
520
500
480
460
440
420

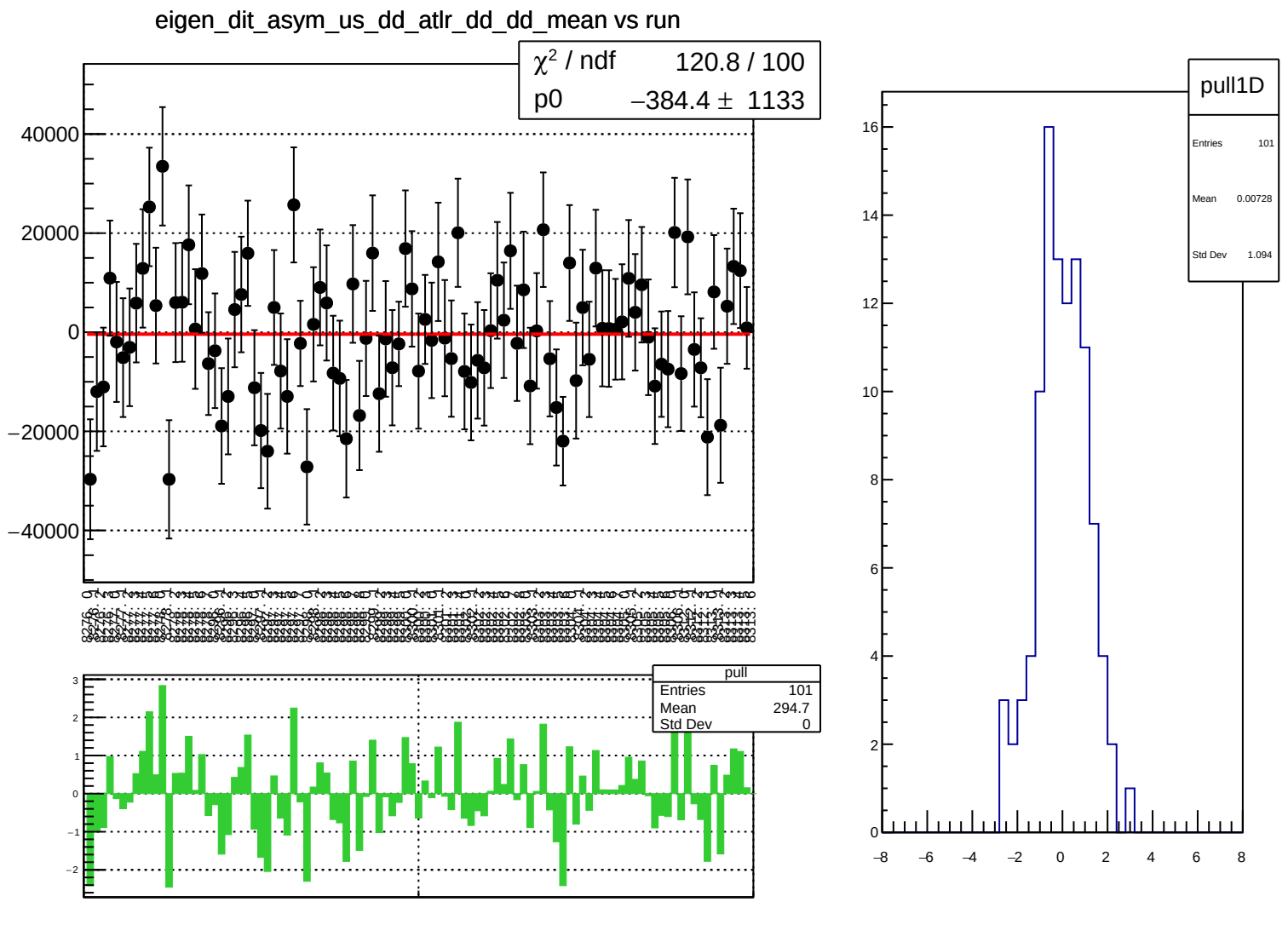

dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 120.8 / 100
p0 −384.4 ± 1133
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 294.7
Std Dev 0
3
2
1
0
−1
−2

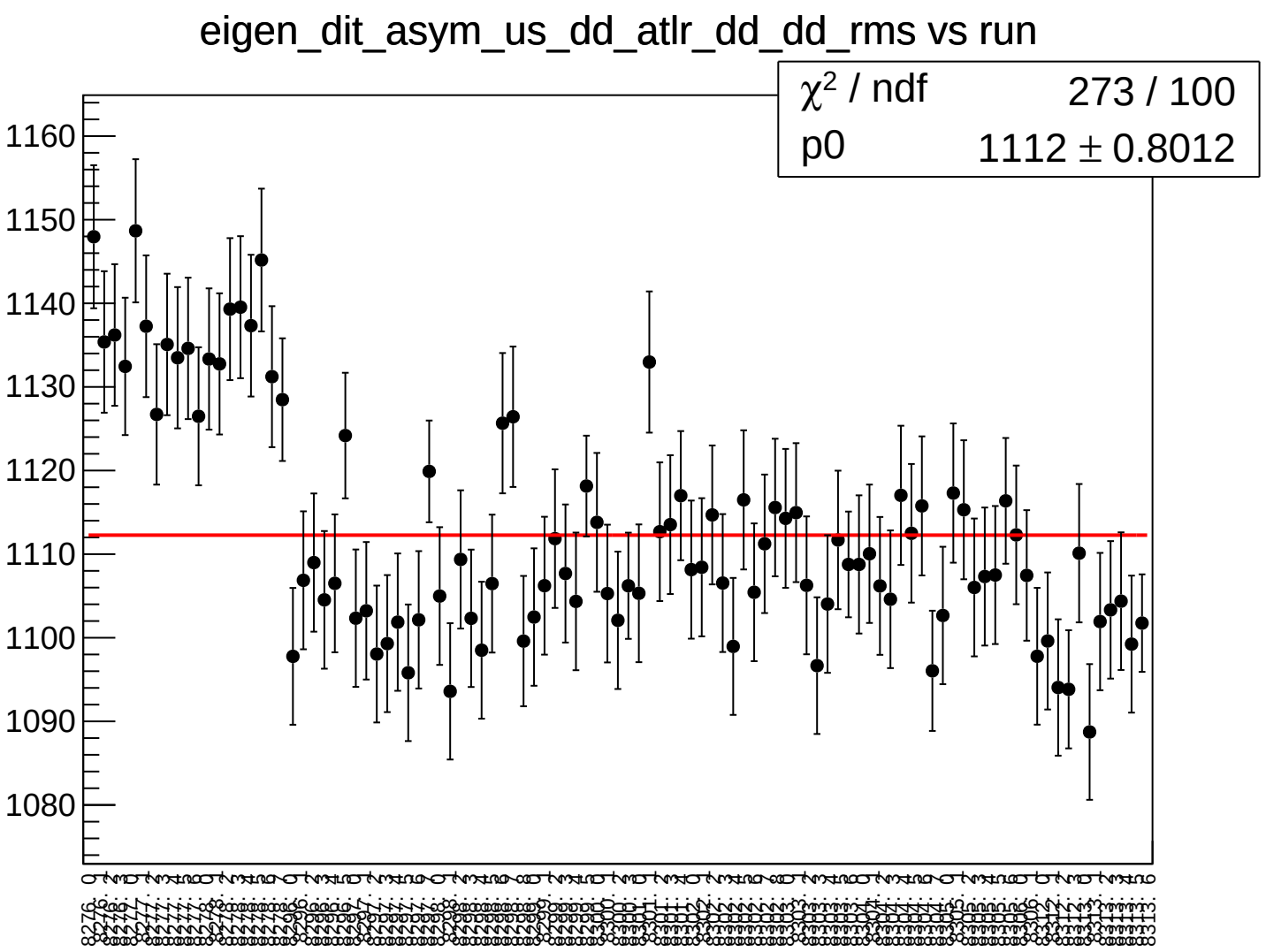

pull1D
Entries 101
Mean 0.00728
Std Dev 1.094
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

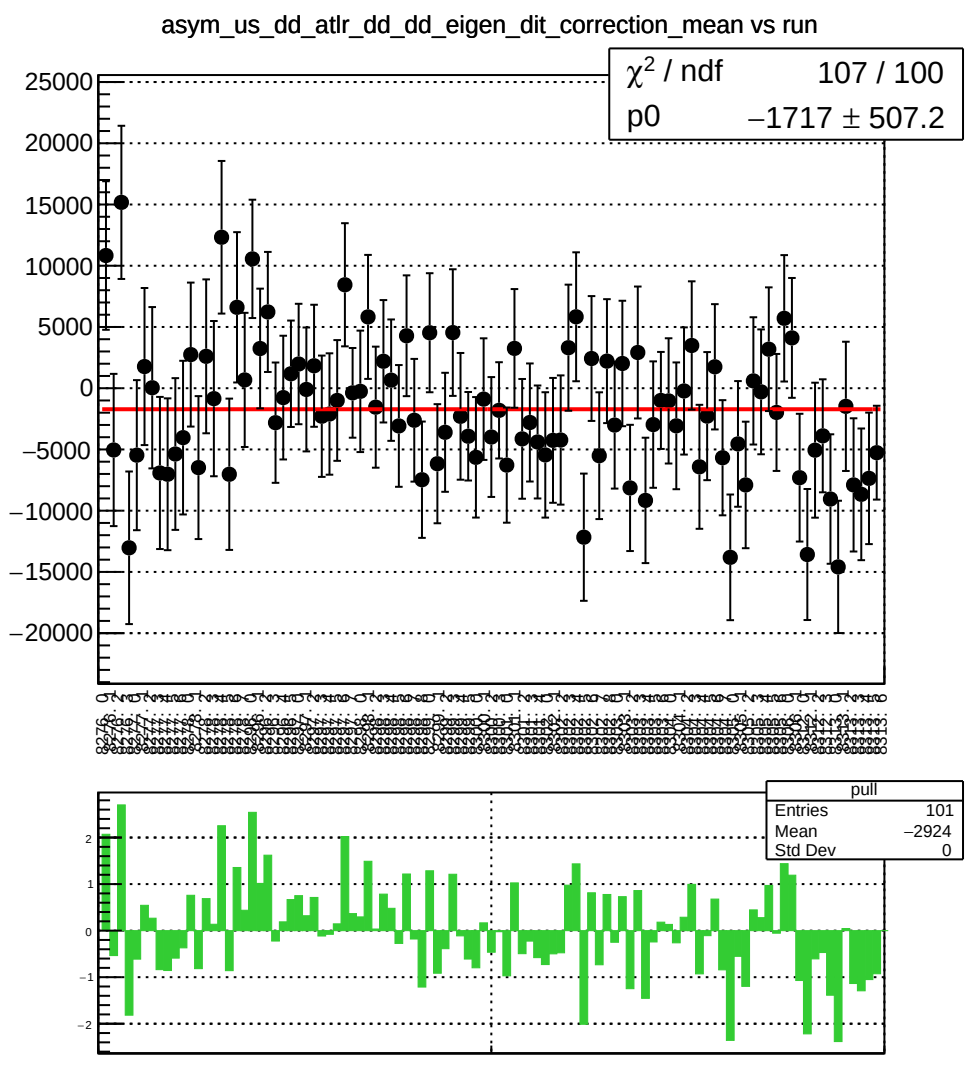

dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 273 / 100
p0 1112 ± 0.8012
1160
1150
1140
1130
1120
1110
1100
1090
1080

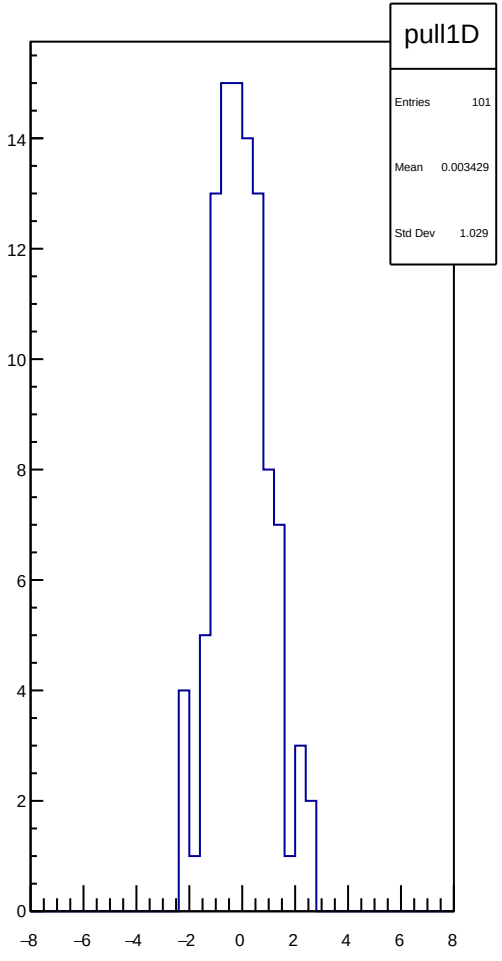

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 107 / 100
p0 −1717 ± 507.2
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 101
Mean −2924
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.003429
Std Dev 1.029
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

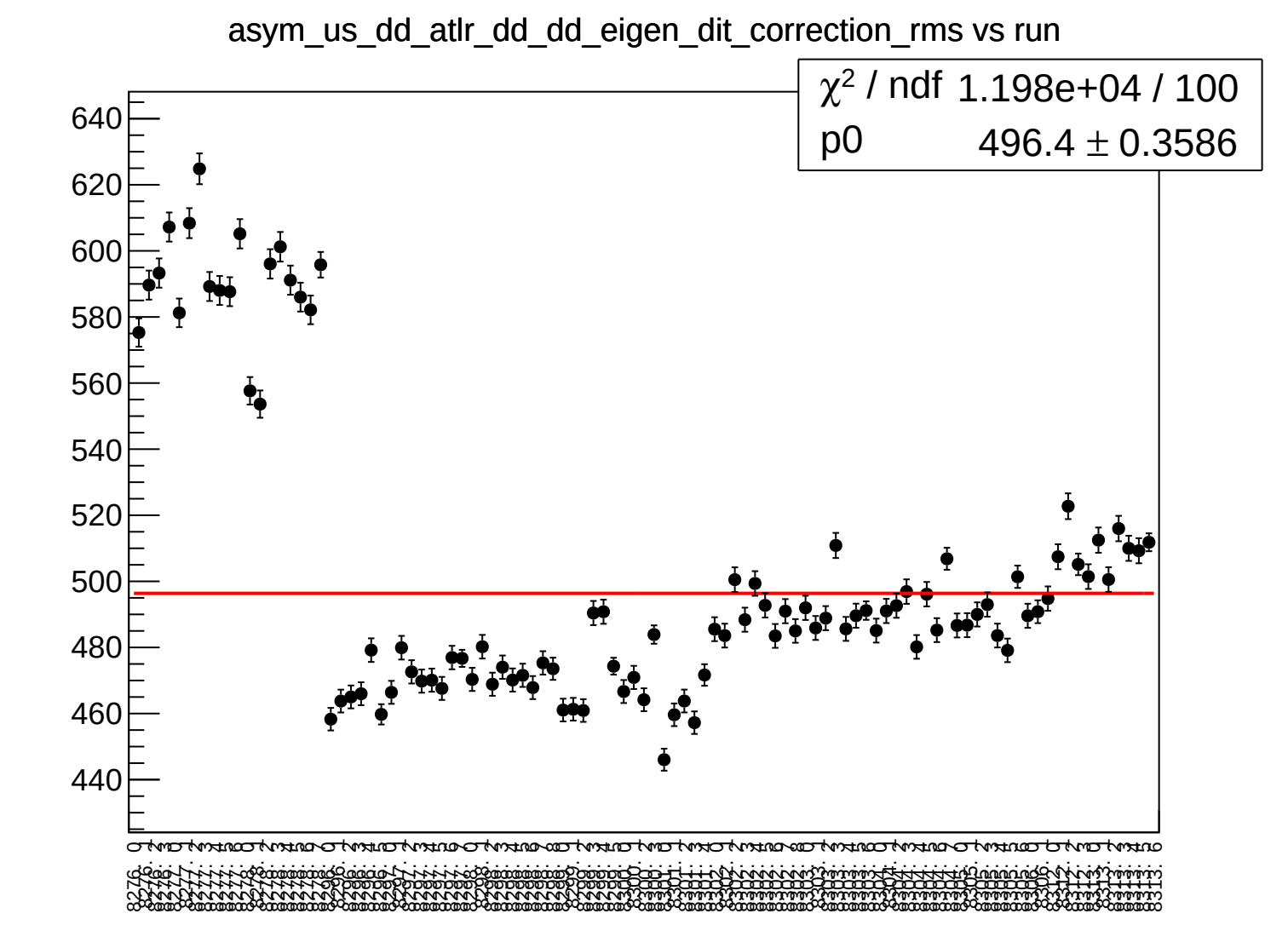

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ^2 / ndf 1.198e+04 / 100
p0 496.4 ± 0.3587
640
620
600
580
560
540
520
500
480
460
440

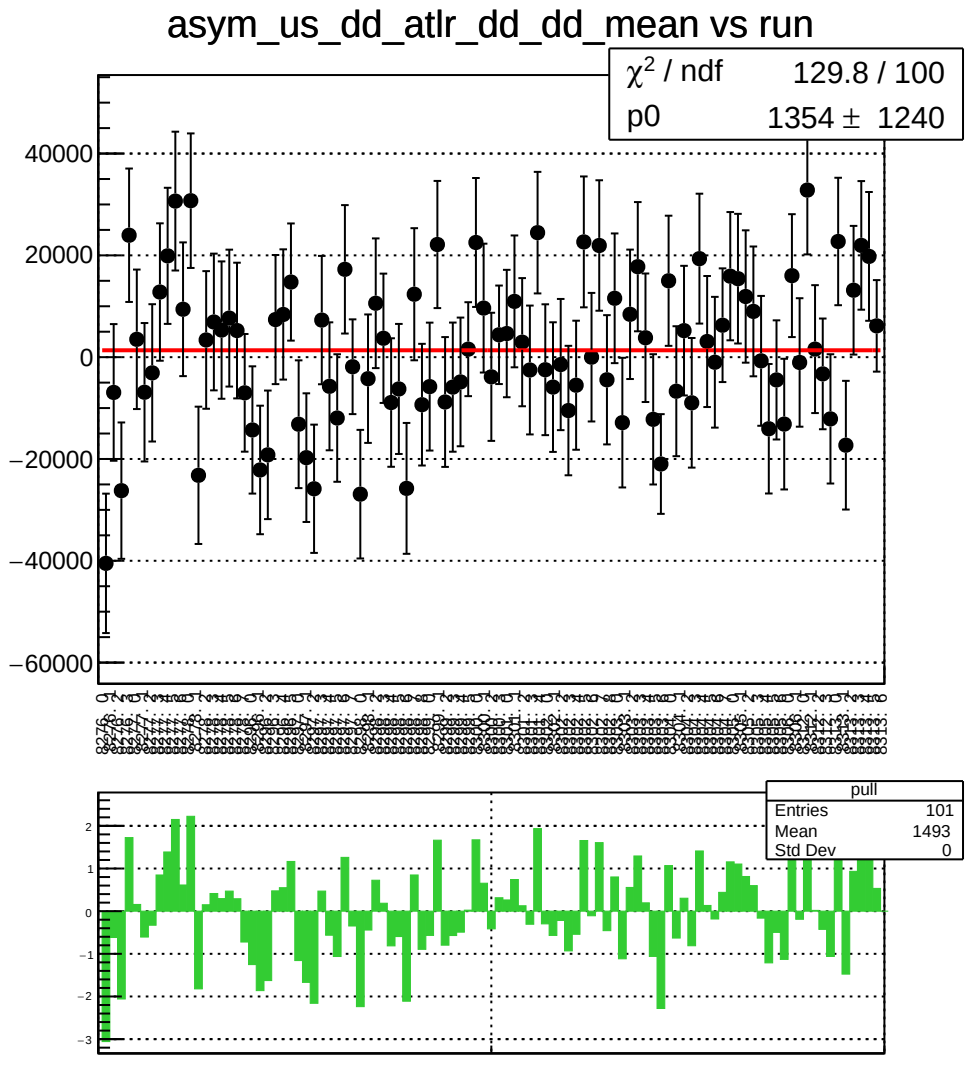

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 120.8 / 100
p0 −384.4 ± 1133
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 294.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.00728
Std Dev 1.094
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

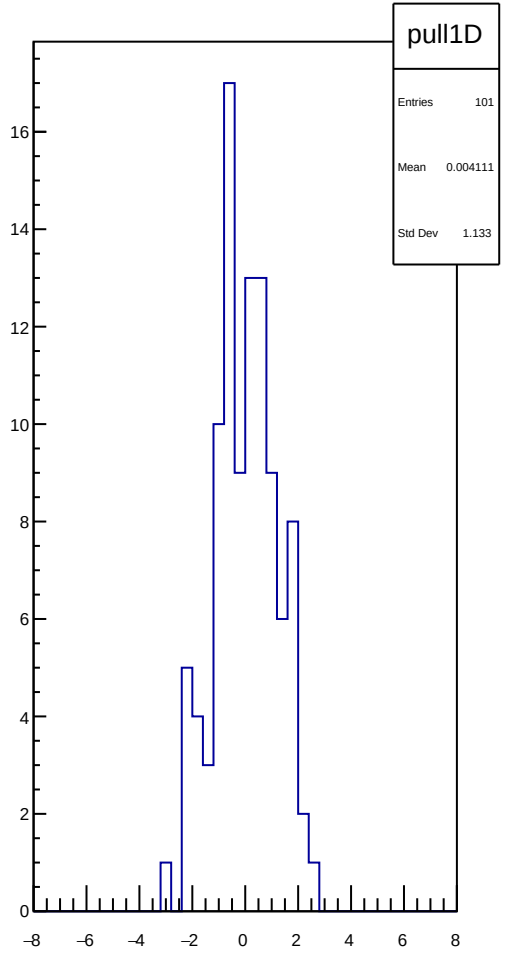

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 273 / 100
p0 1112 ± 0.8012
1160
1150
1140
1130
1120
1110
1100
1090
1080

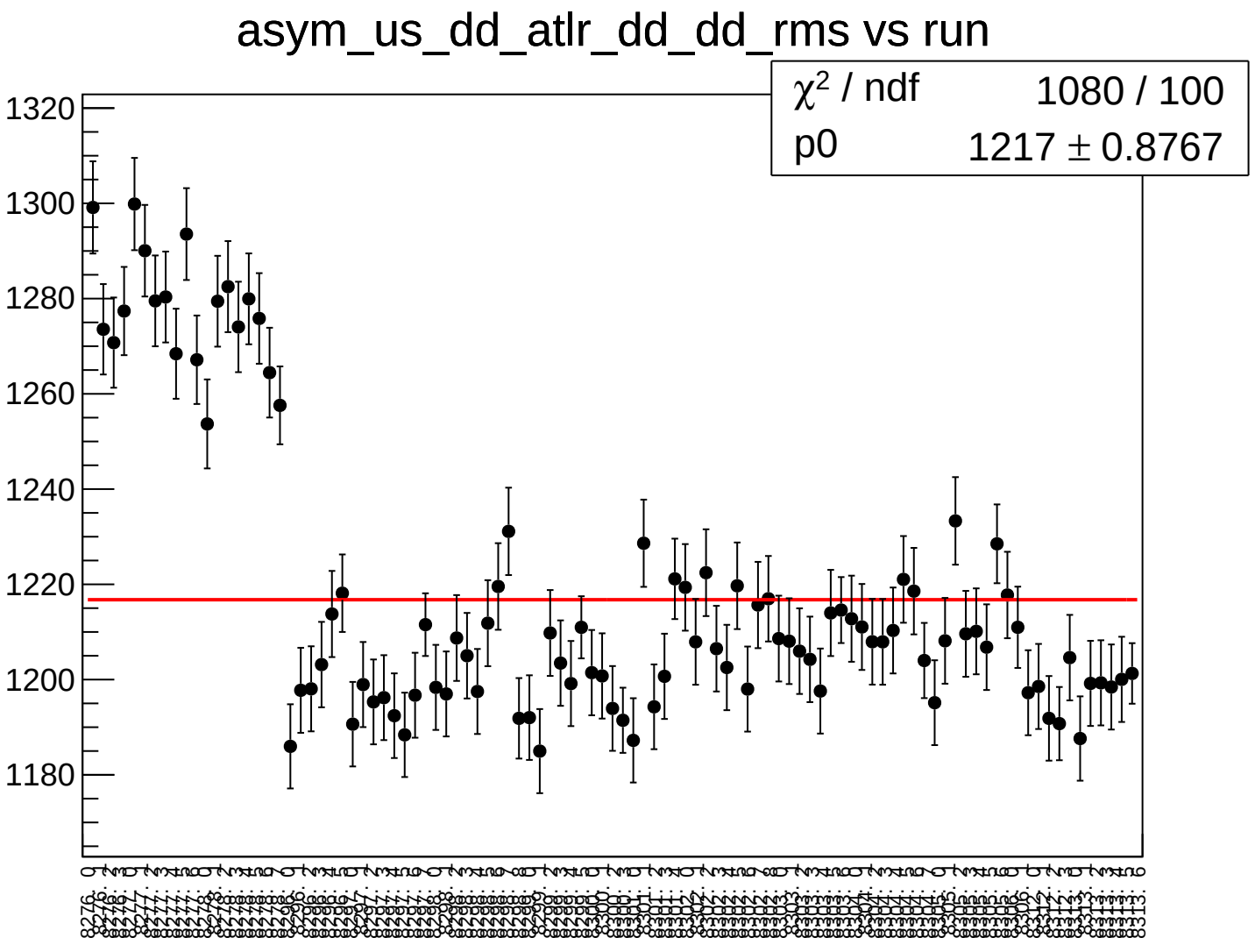

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 107 / 100
p0 −1717 ± 507.2
pull
Entries 101
Mean −2924
Std Dev 0

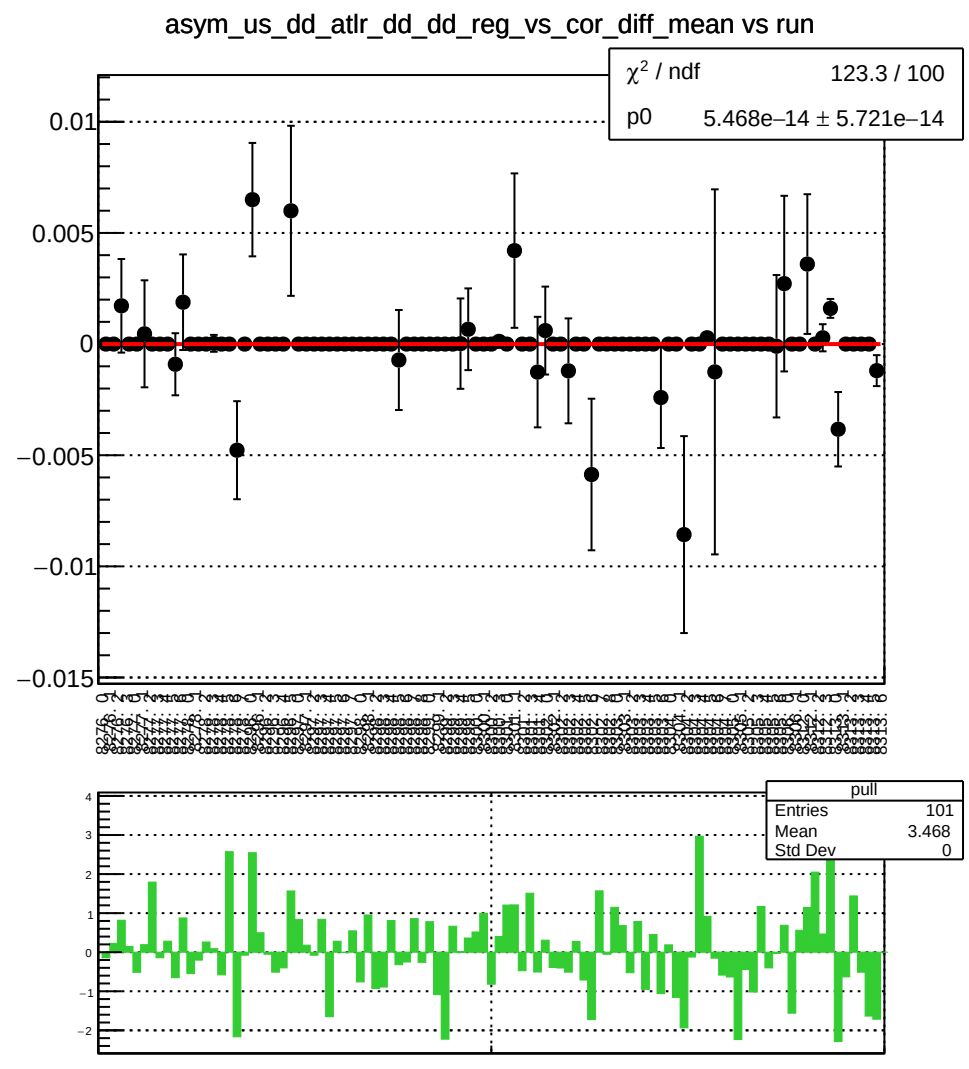

pull1D
Entries 101
Mean 0.003429
Std Dev 1.029

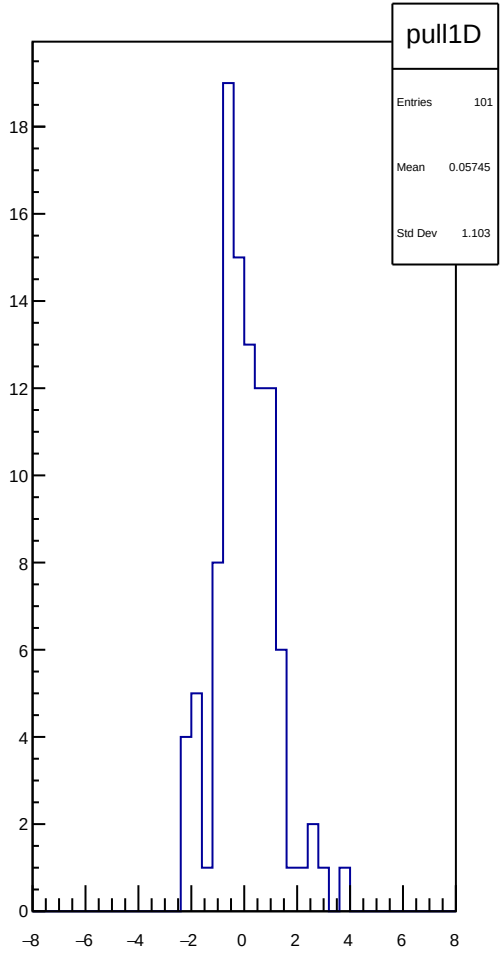

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.198e+04 / 100
p0 496.4 ± 0.3586
640
620
600
580
560
540
520
500
480
460
440

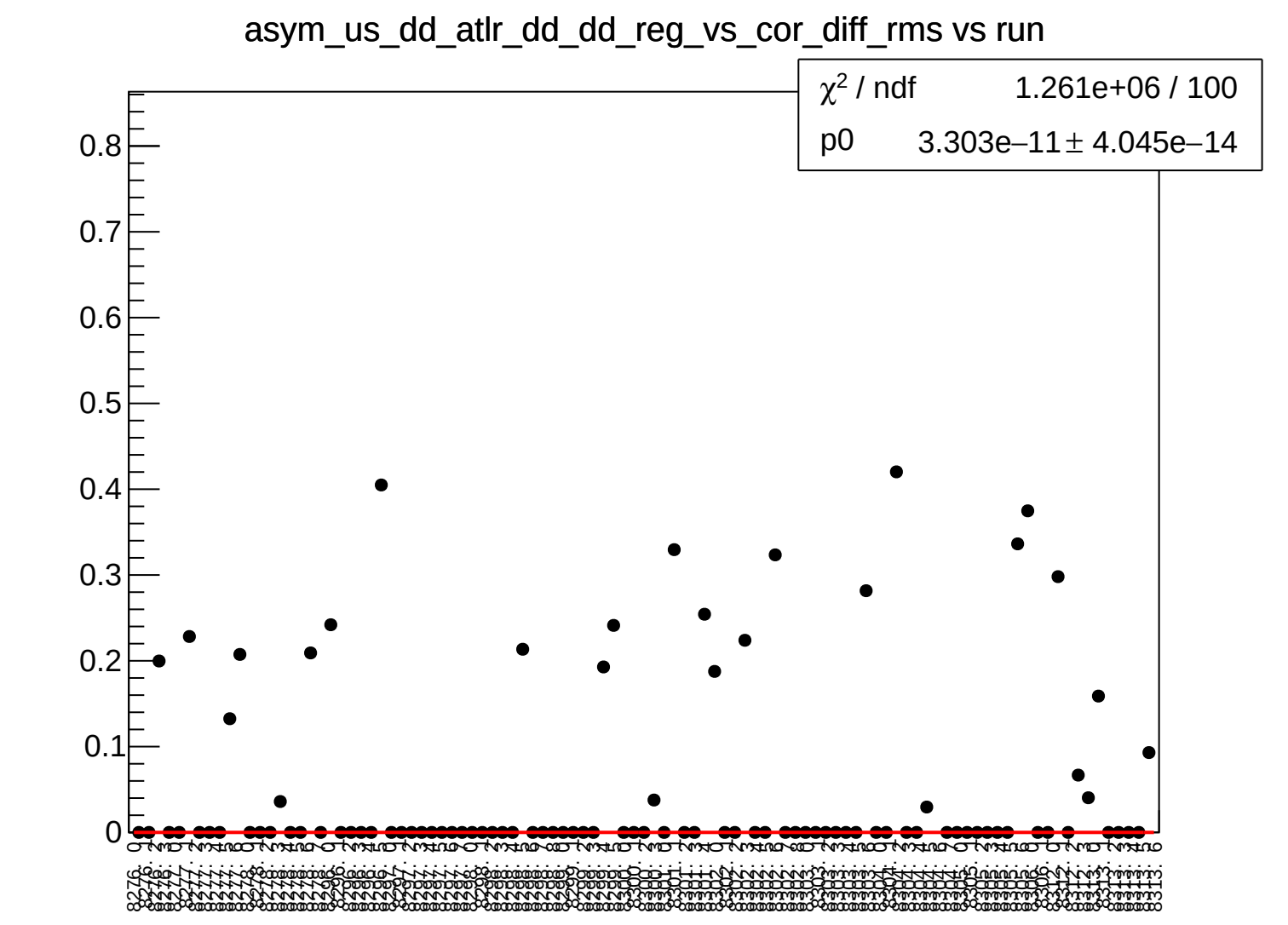

asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 129.8 / 100
p0 1354 ± 1240
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean 1493
Std Dev 0
2
1
0
−1
−2
−3

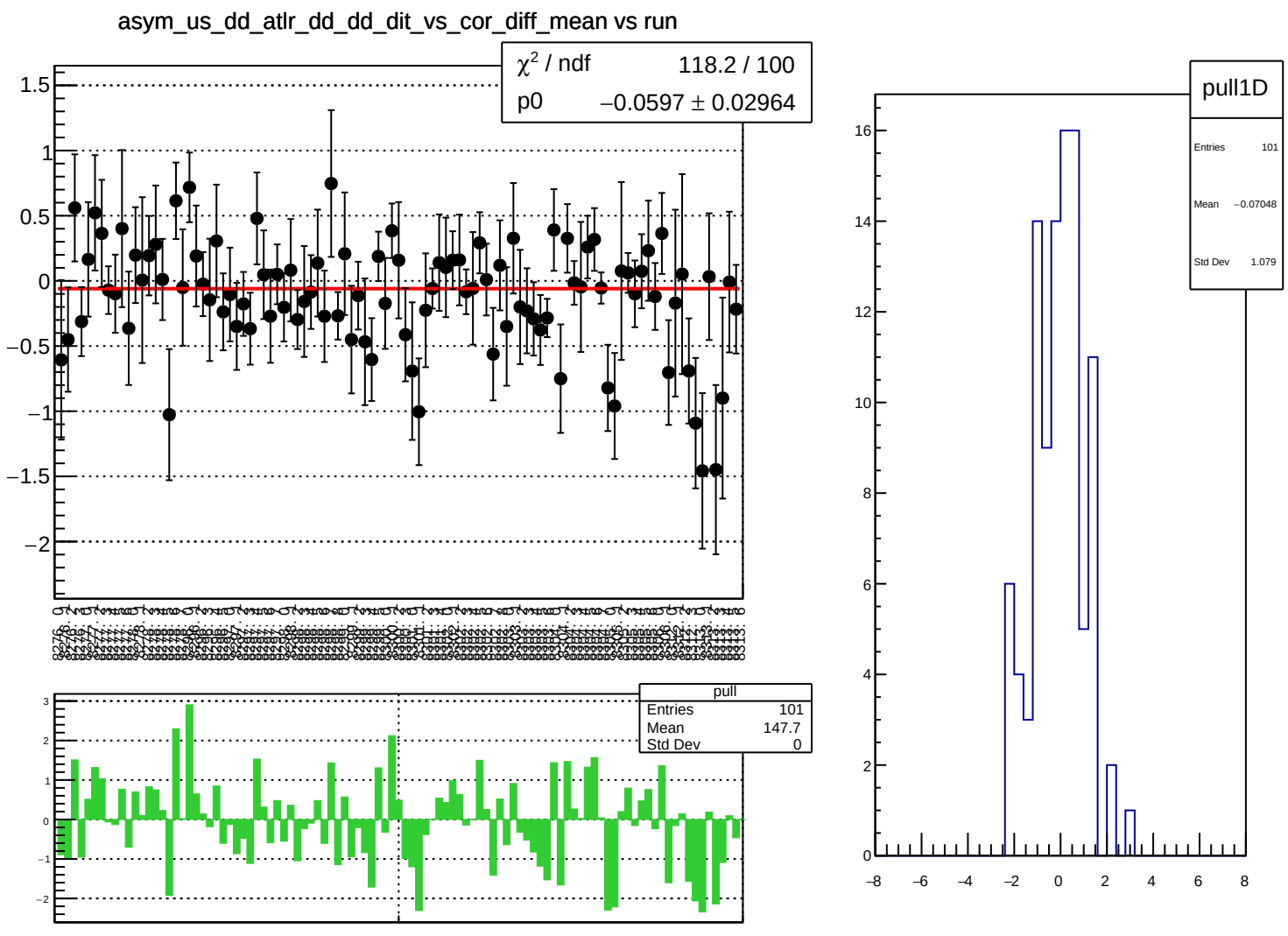

pull1D
Entries 101
Mean 0.004111
Std Dev 1.133
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

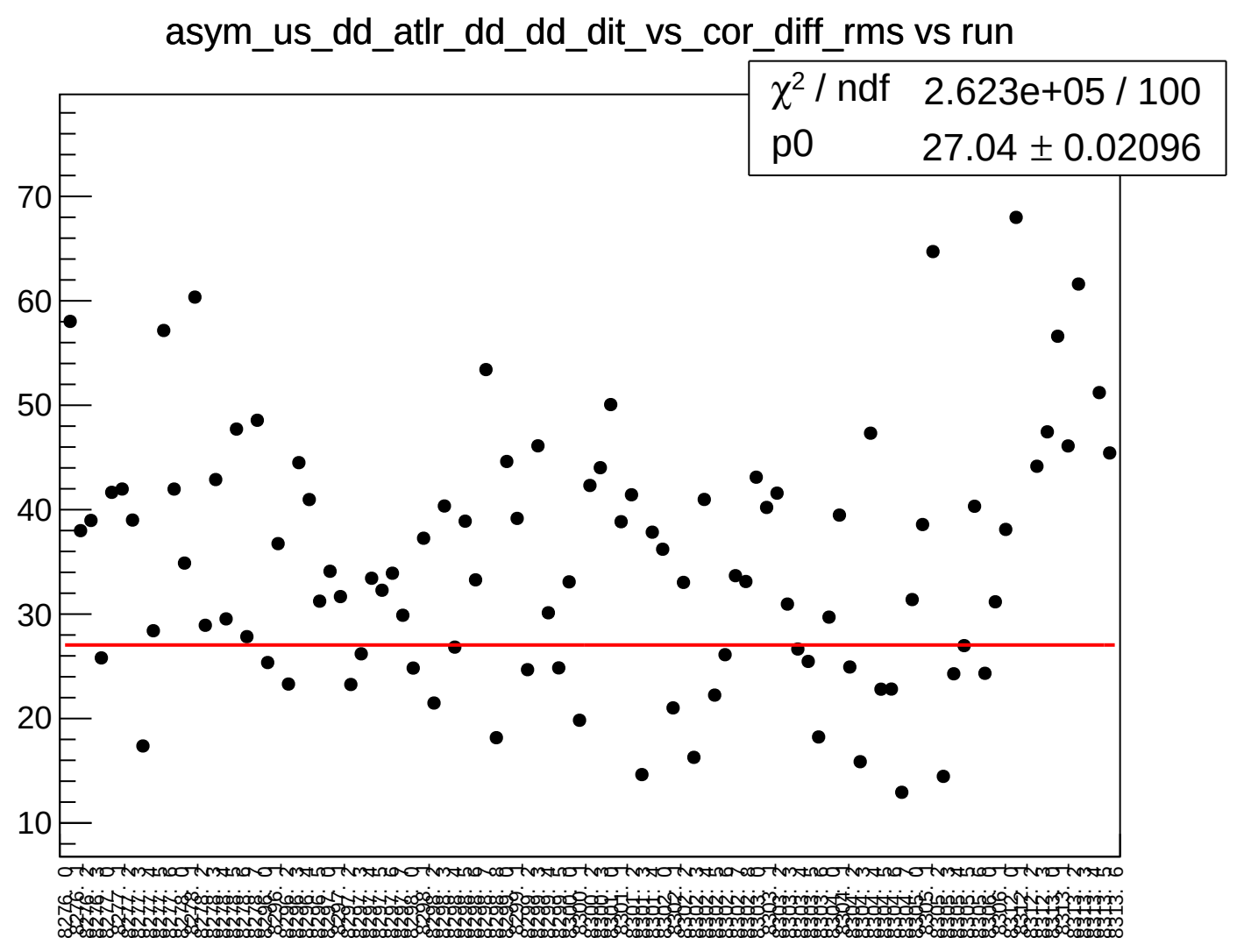

asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 1080 / 100
p0 1217 ± 0.8767
1320
1300
1280
1260
1240
1220
1200
1180

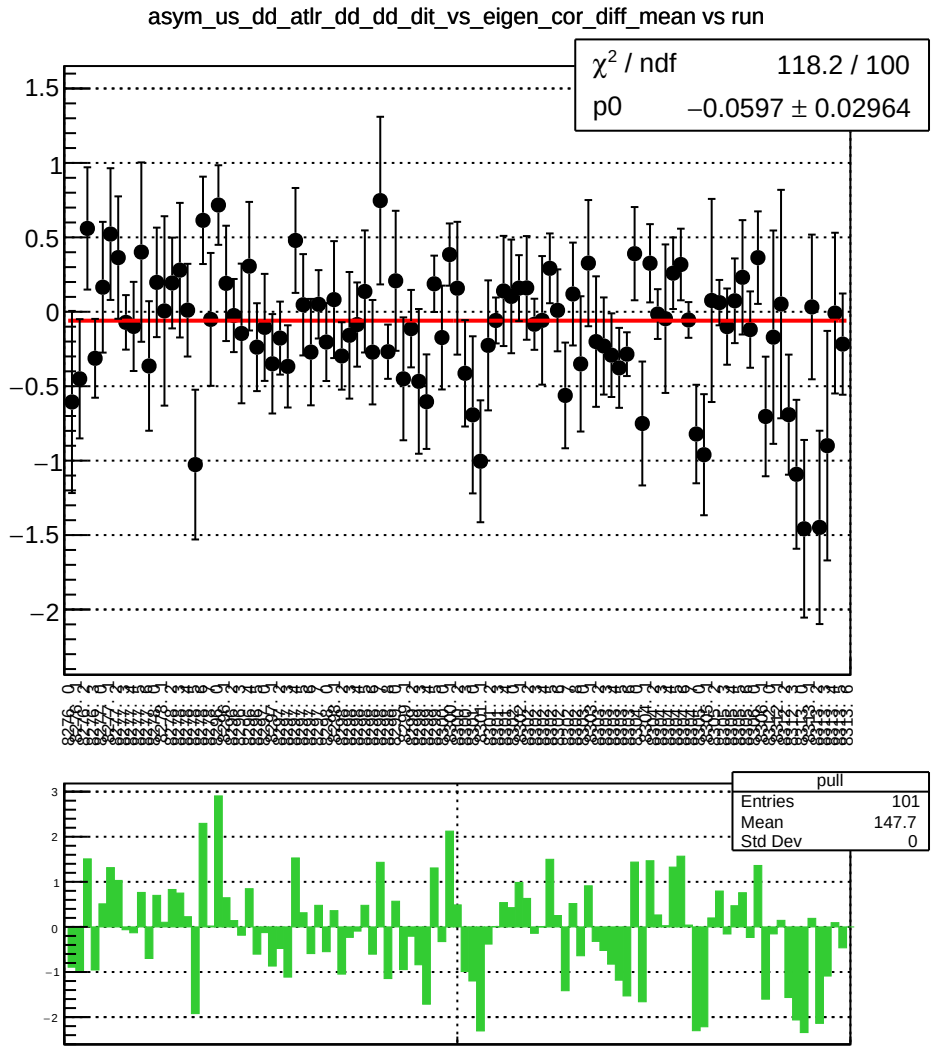

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 123.3 / 100
p0 5.468e−14 ± 5.721e−14
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 101
Mean 3.468
Std Dev 0
4
3
2
1
0
−1
−2

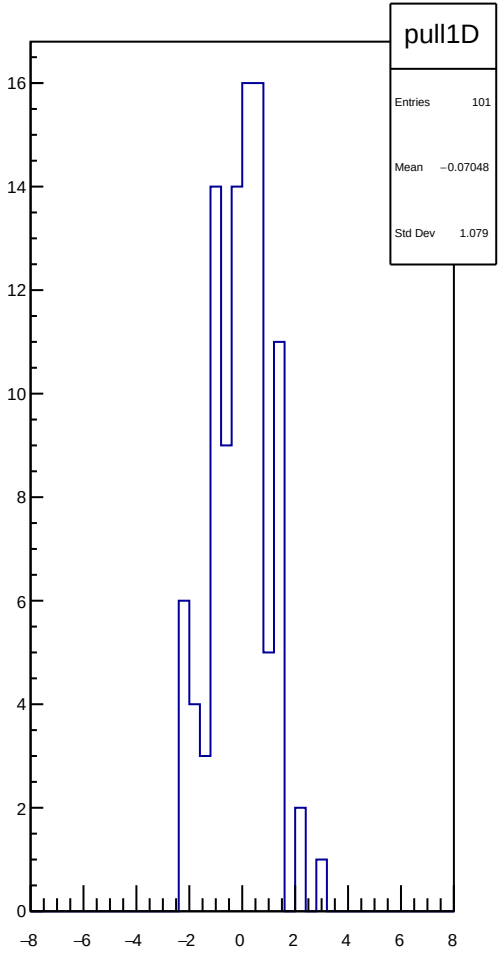

pull1D
Entries 101
Mean 0.05745
Std Dev 1.103
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

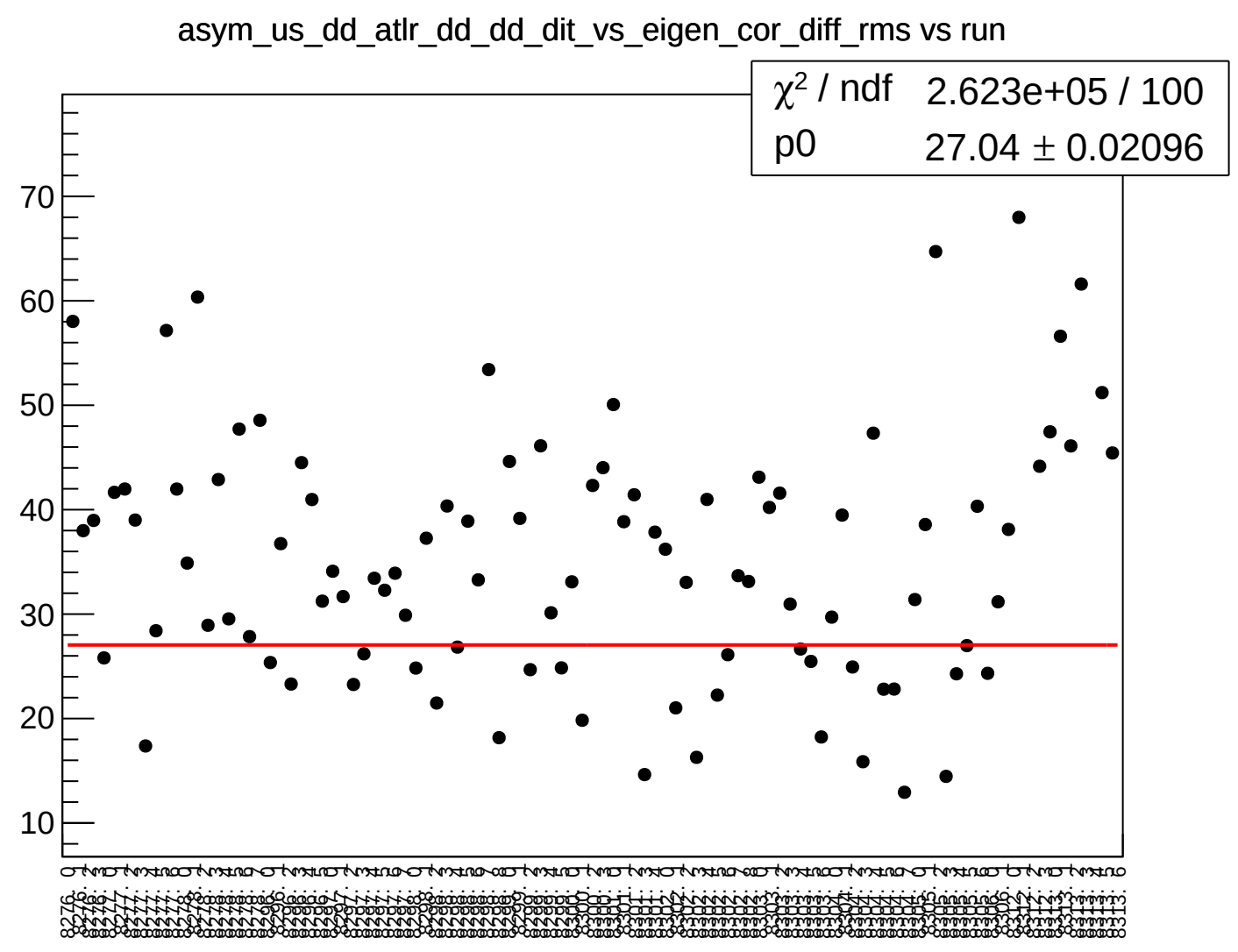

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.261e+06 / 100
p0 3.303e−11 ± 4.045e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

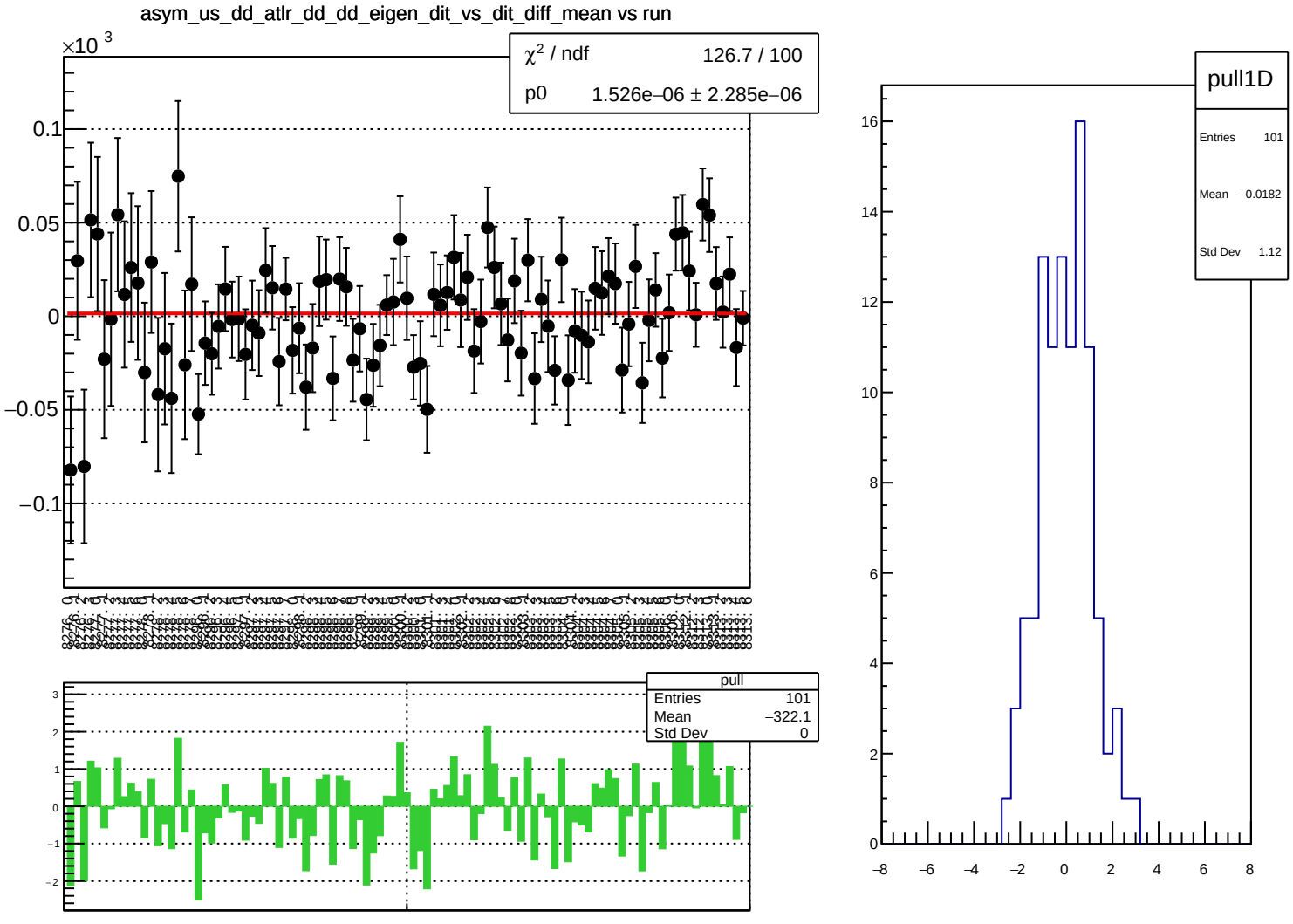

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 118.2 / 100
p0 −0.0597 ± 0.02964
pull
Entries 101
Mean 147.7
Std Dev 0
pull1D
Entries 101
Mean −0.07048
Std Dev 1.079

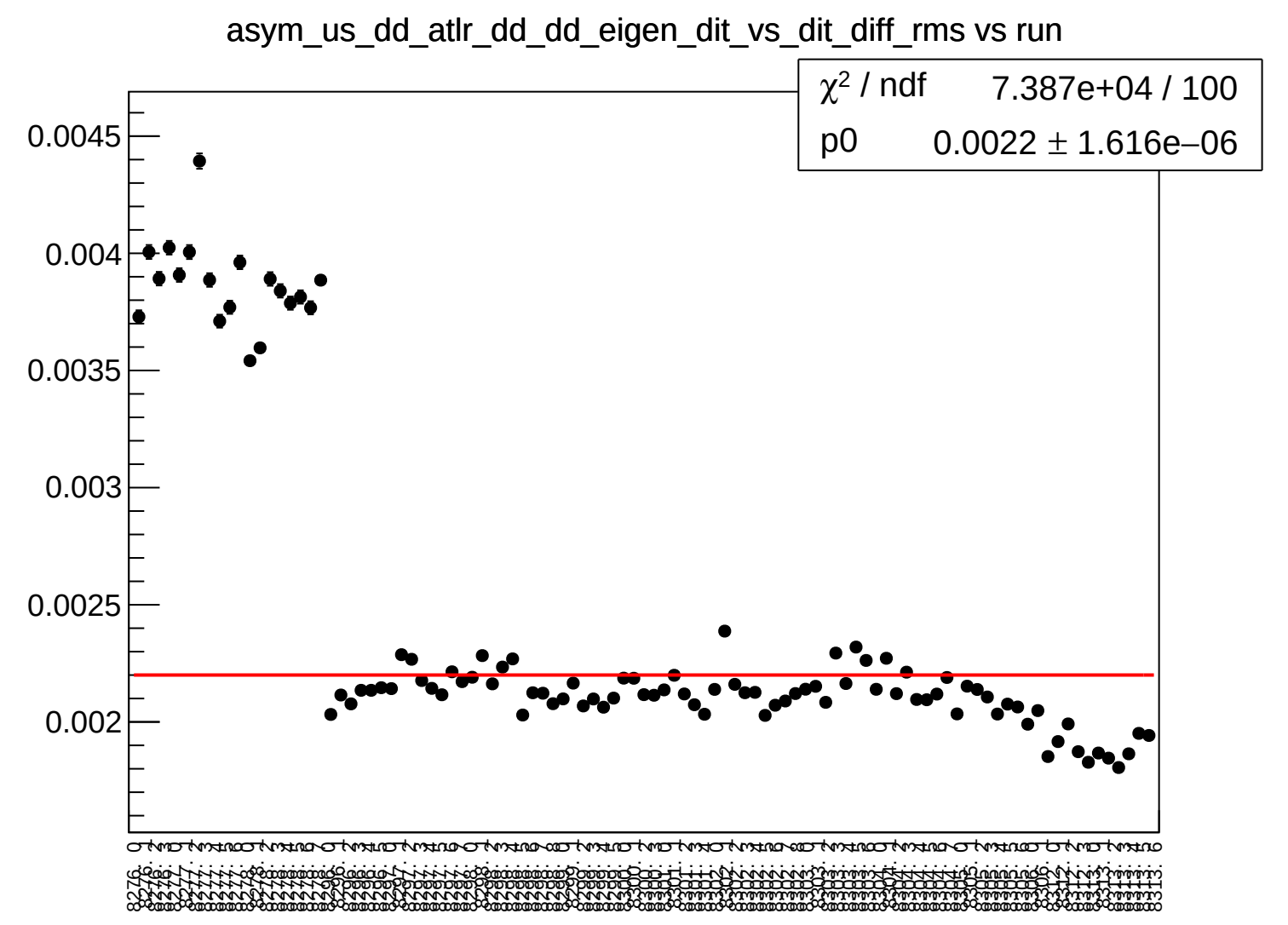

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.623e+05 / 100
p0 27.04 ± 0.02096
70
60
50
40
30
20
10

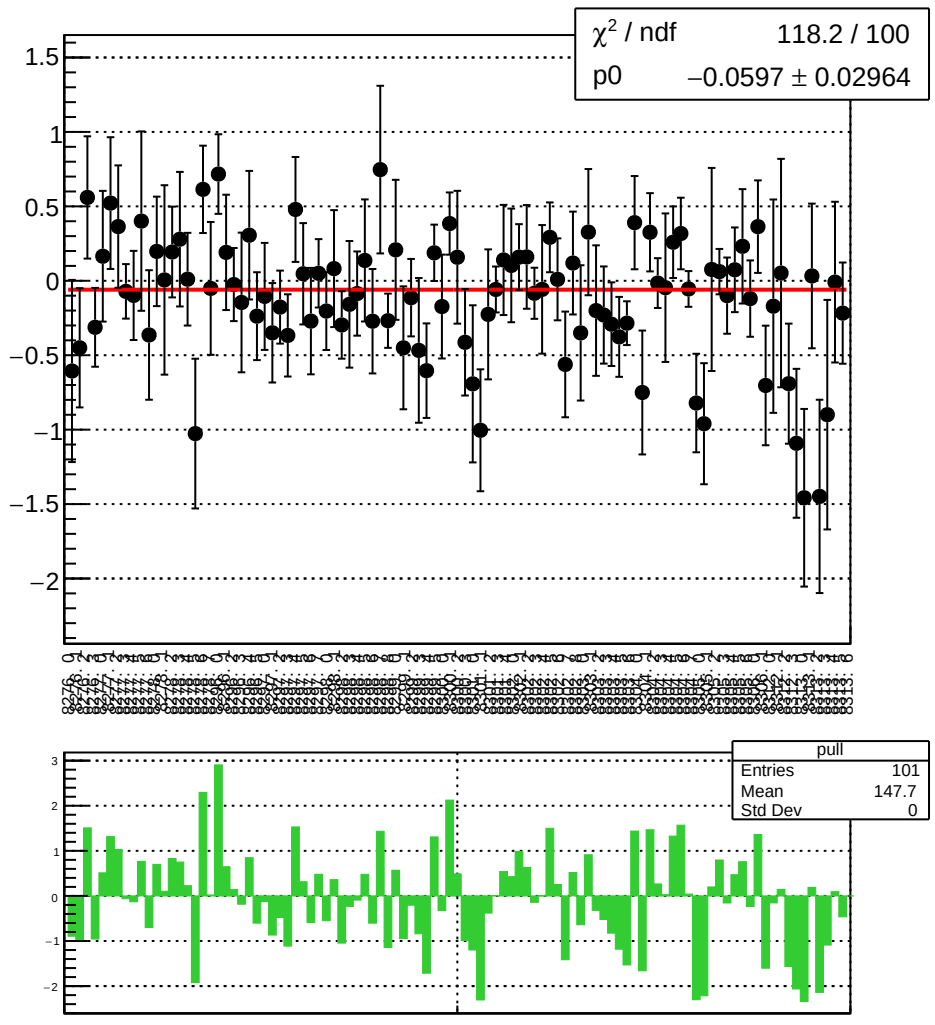

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 118.2 / 100
p0 −0.0597 ± 0.02964
pull
Entries 101
Mean 147.7
Std Dev 0

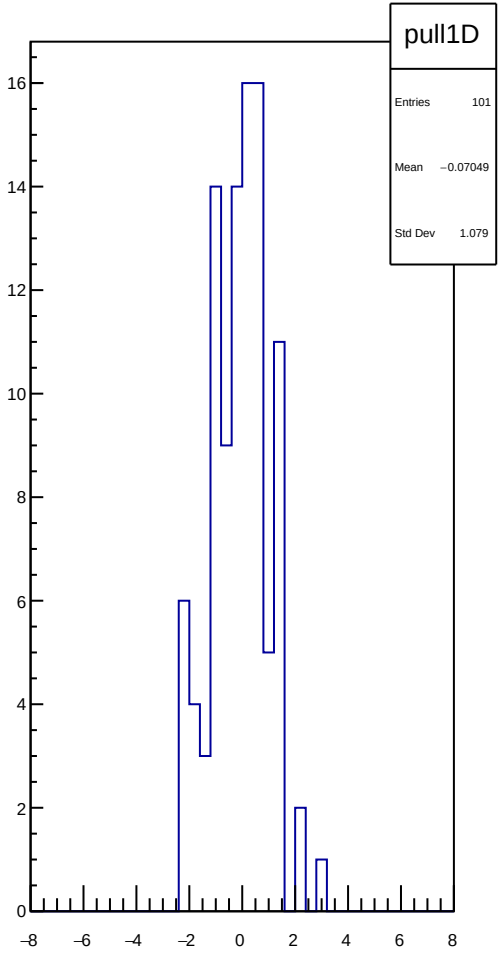

pull1D
Entries 101
Mean −0.07048
Std Dev 1.079

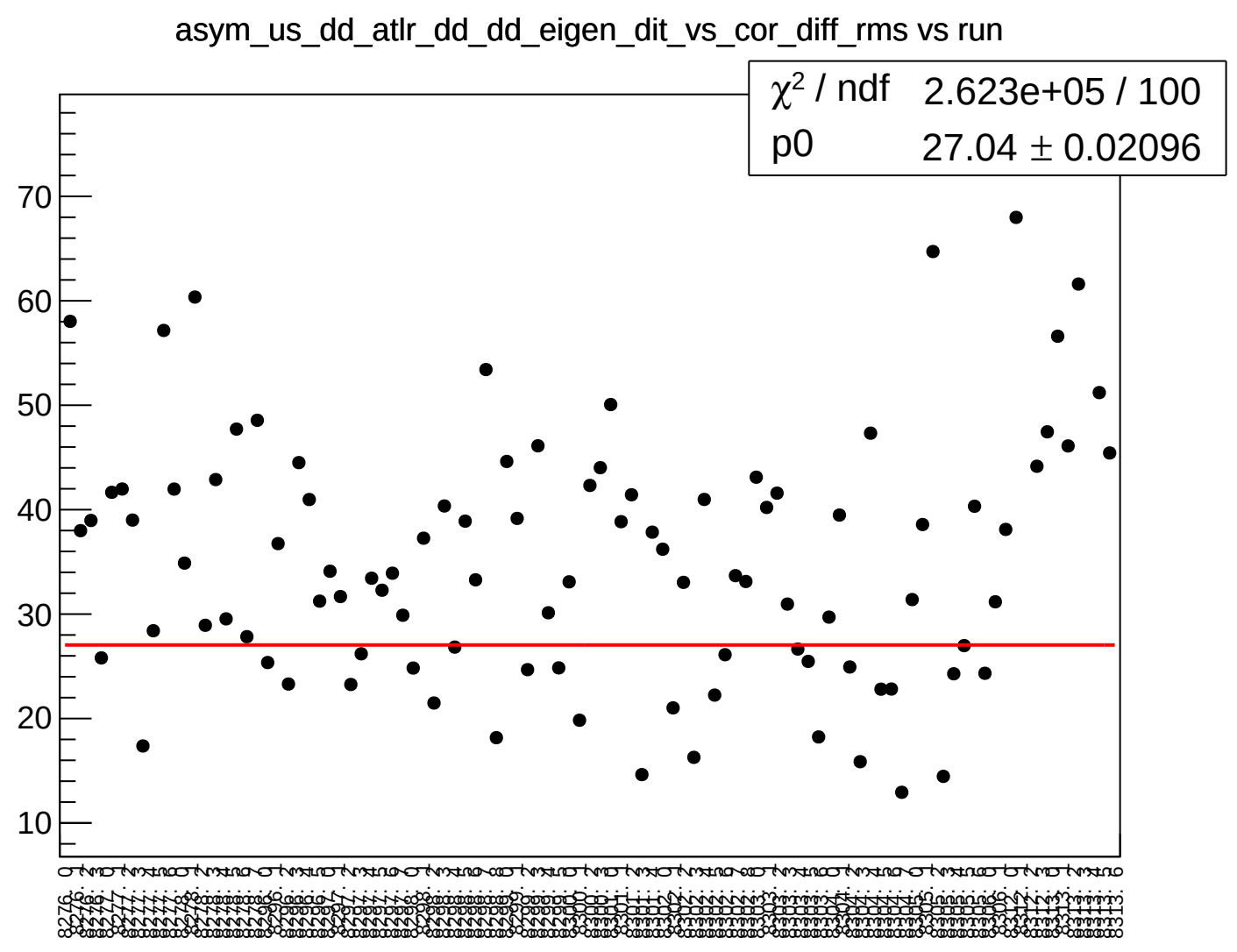

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.623e+05 / 100
p0 27.04 ± 0.02096
70
60
50
40
30
20
10

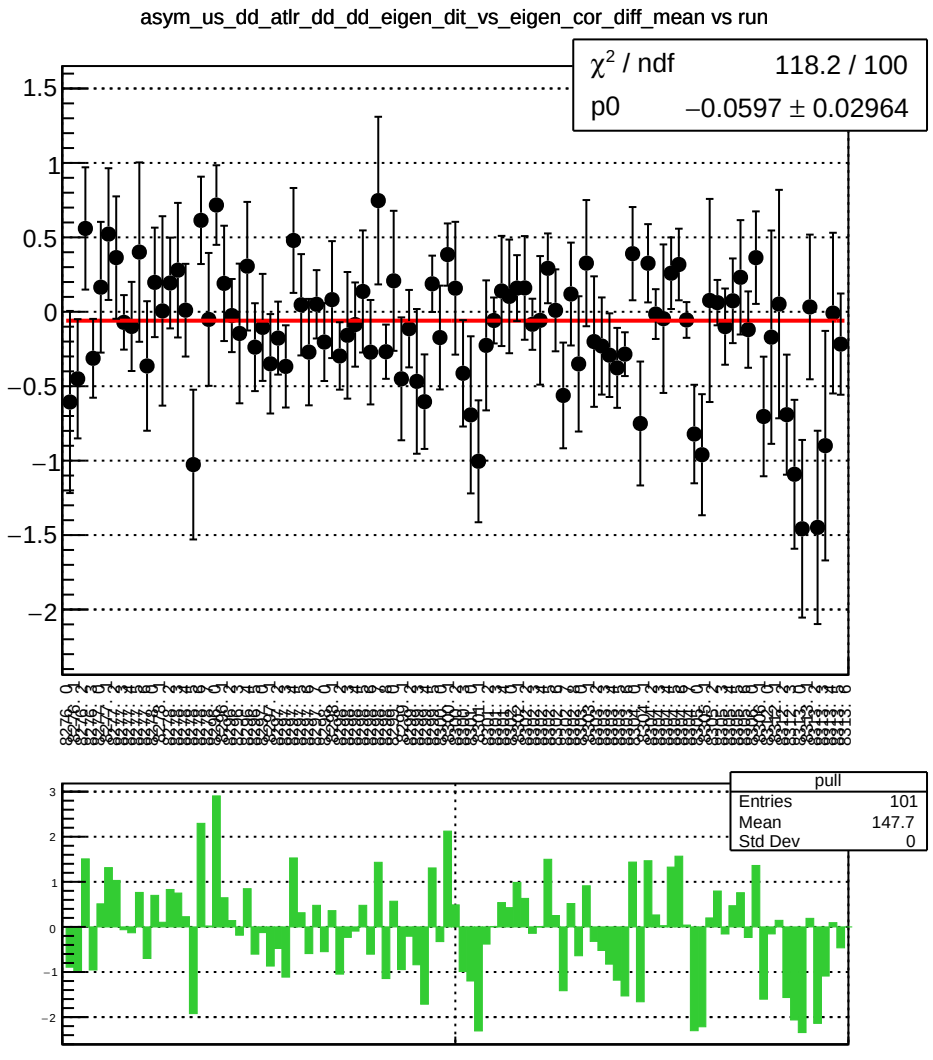

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 126.7 / 100
p0 1.526e−06 ± 2.285e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 101
Mean −322.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.0182
Std Dev 1.12
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

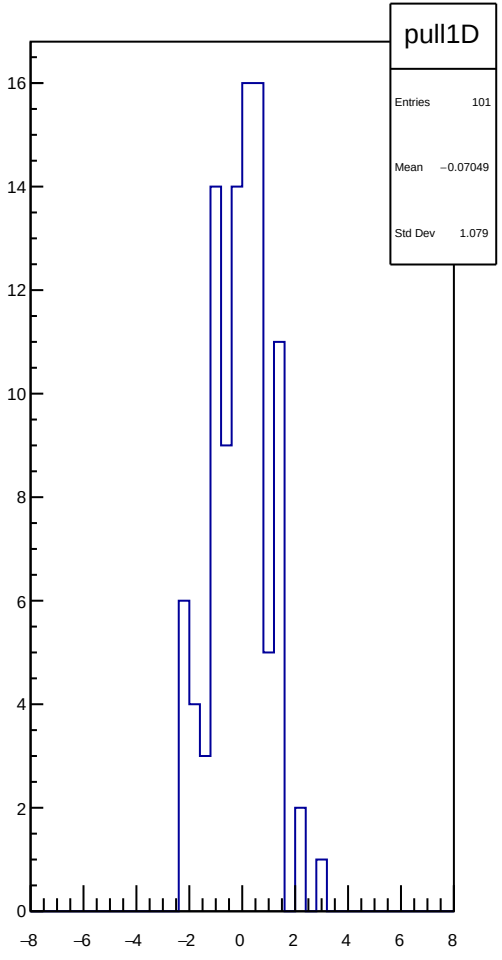

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.387e+04 / 100
p0 0.0022 ± 1.616e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002

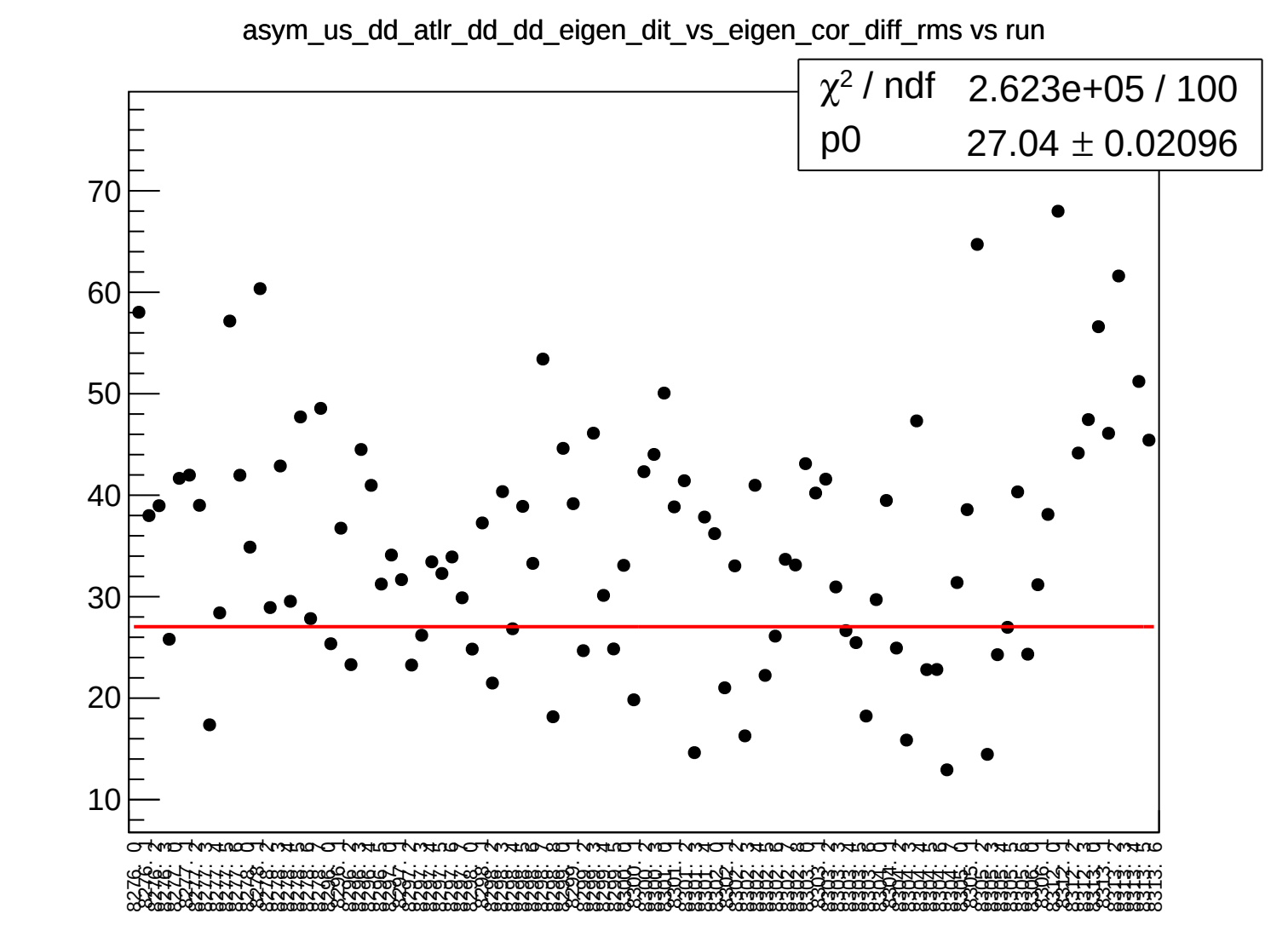

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 118.2 / 100
p0 −0.0597 ± 0.02964
pull
Entries 101
Mean 147.7
Std Dev 0

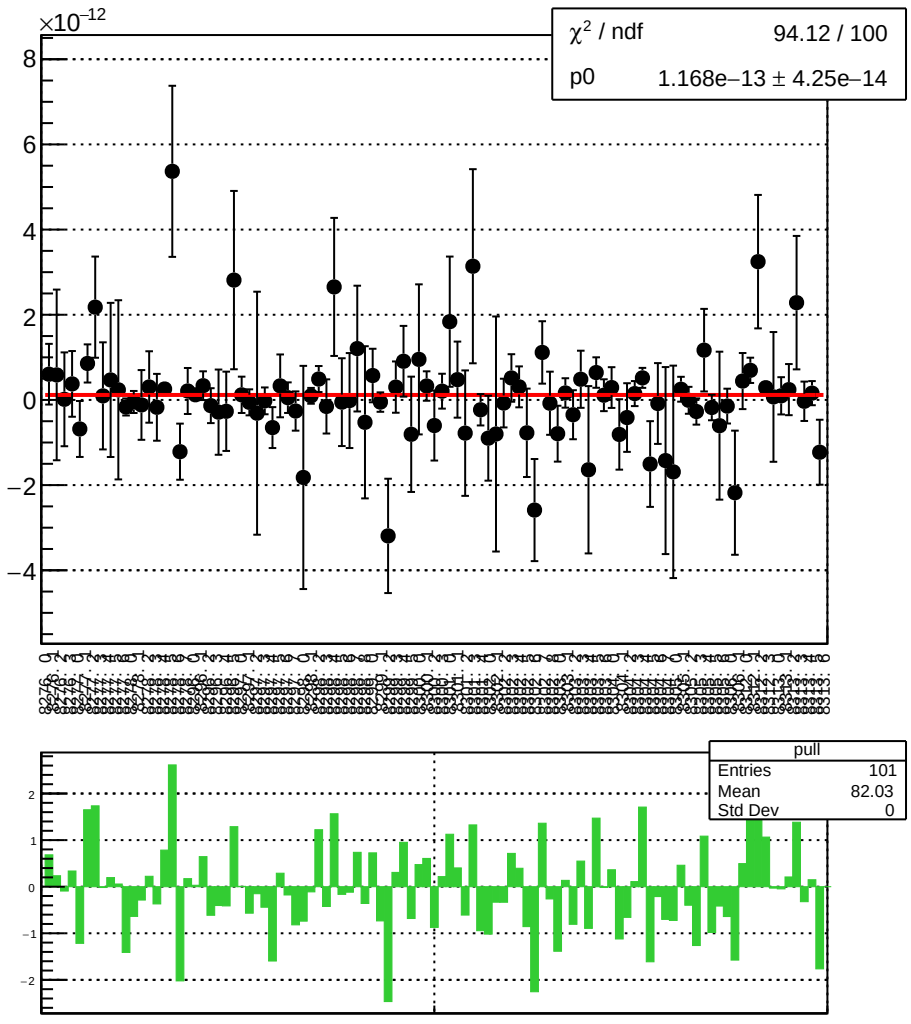

pull1D
Entries 101
Mean −0.07049
Std Dev 1.079

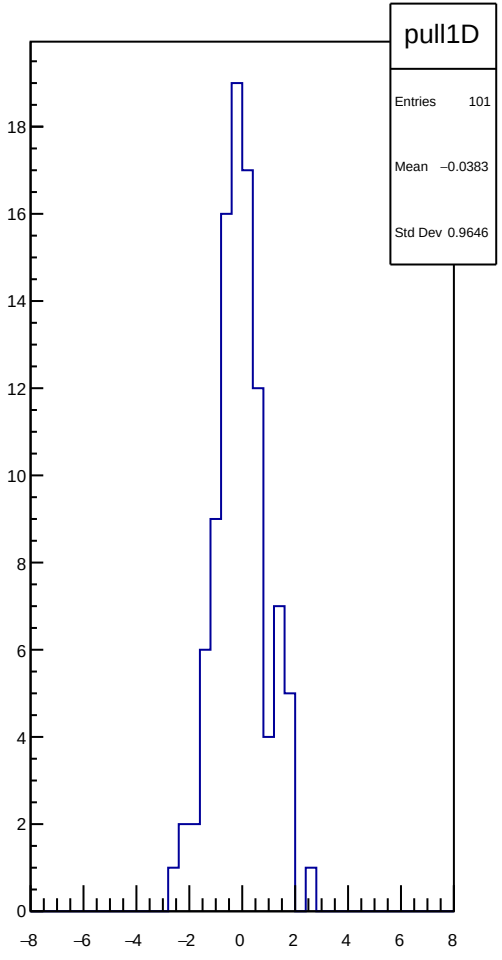

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.623e+05 / 100
p0 27.04 ± 0.02096
70
60
50
40
30
20
10

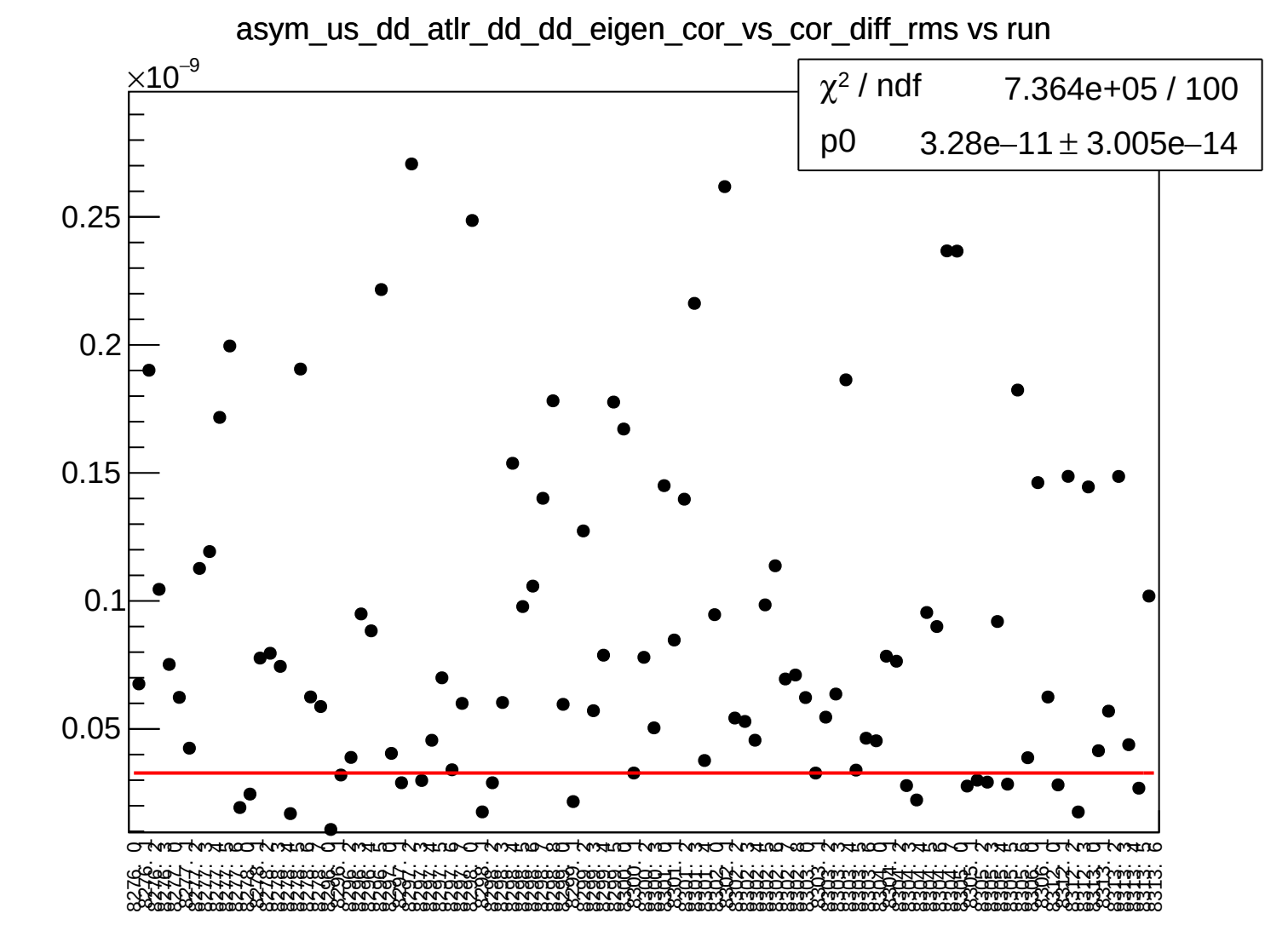

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 118.2 / 100
p0 −0.0597 ± 0.02964
pull
Entries 101
Mean 147.7
Std Dev 0

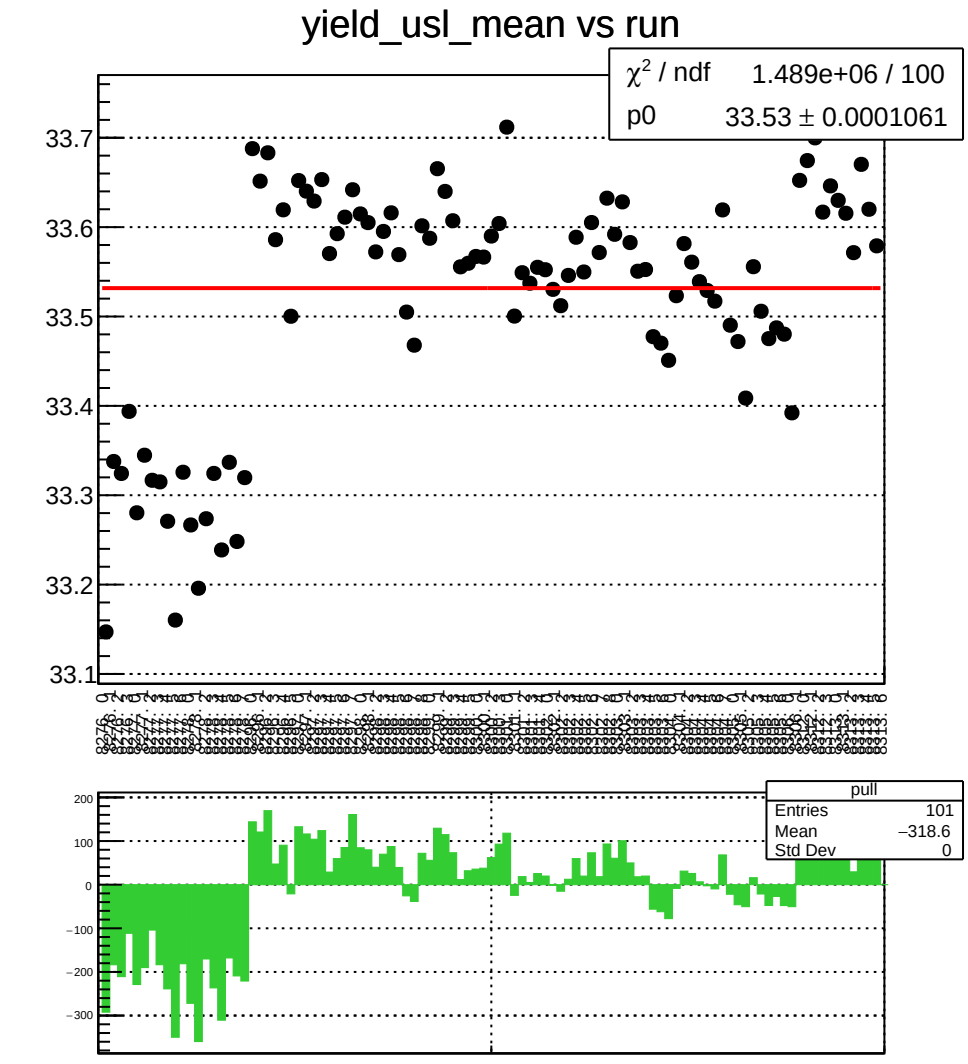

pull1D
Entries 101
Mean −0.07049
Std Dev 1.079

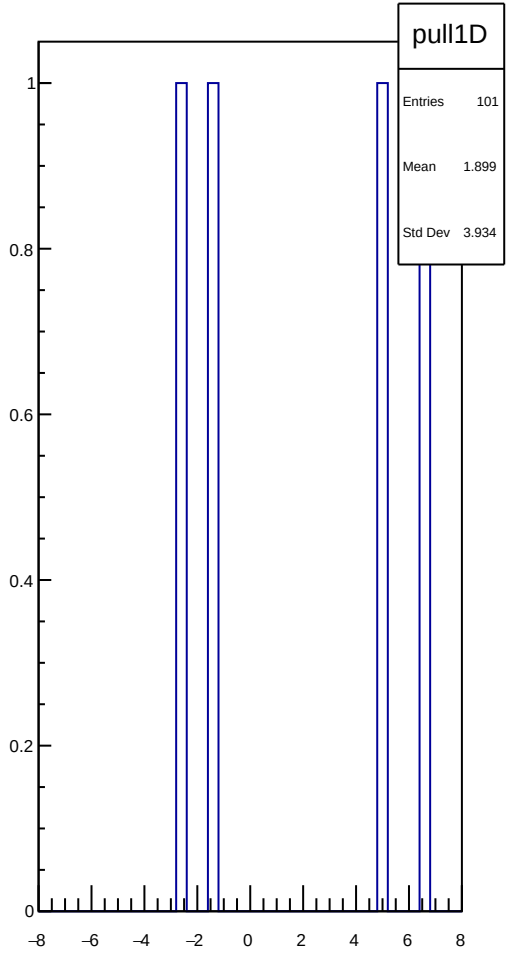

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.623e+05 / 100
p0 27.04 ± 0.02096
70
60
50
40
30
20
10

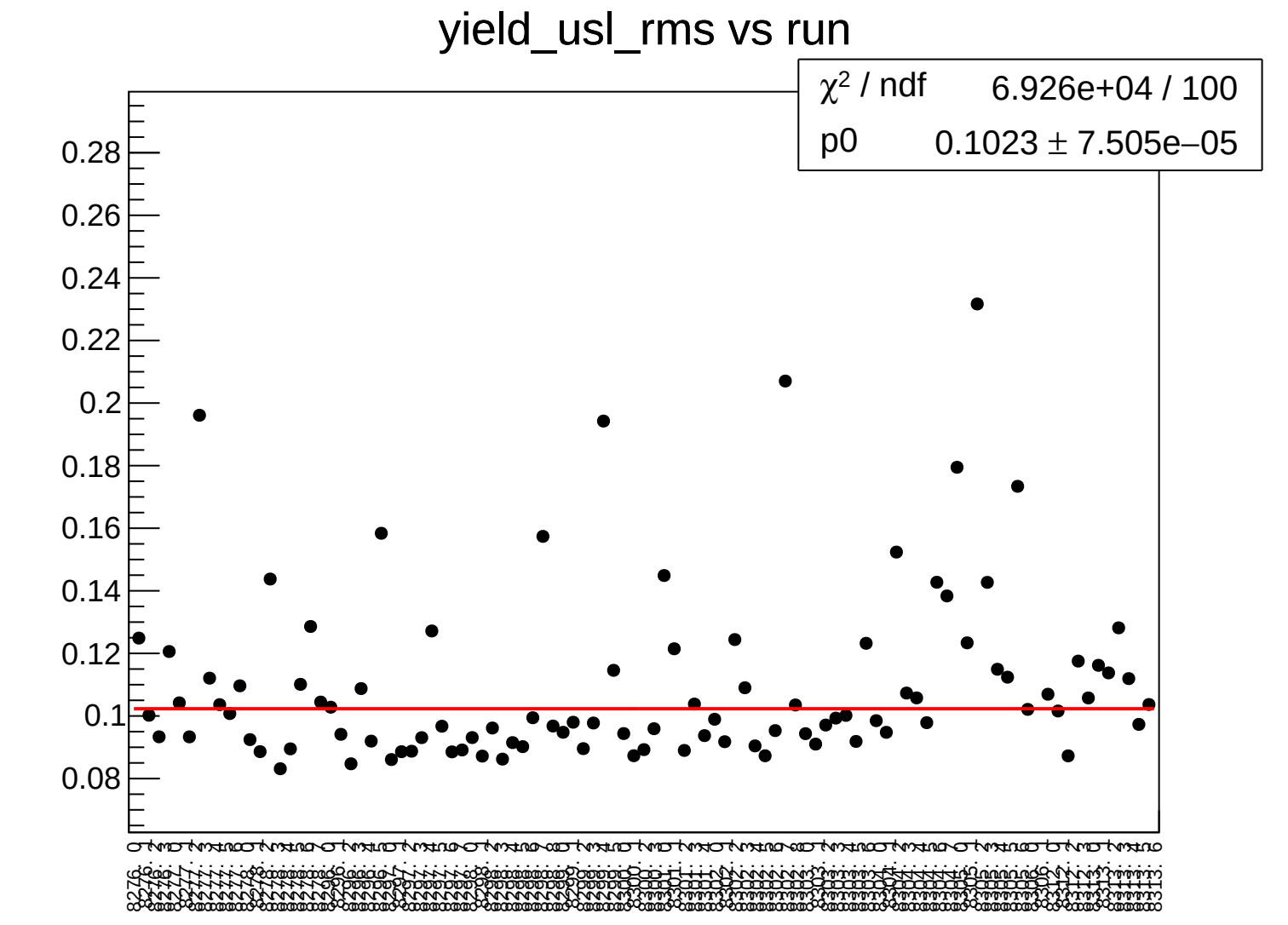

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.12 / 100
p0 1.168e−13 ± 4.25e−14
pull
Entries 101
Mean 82.03
Std Dev 0

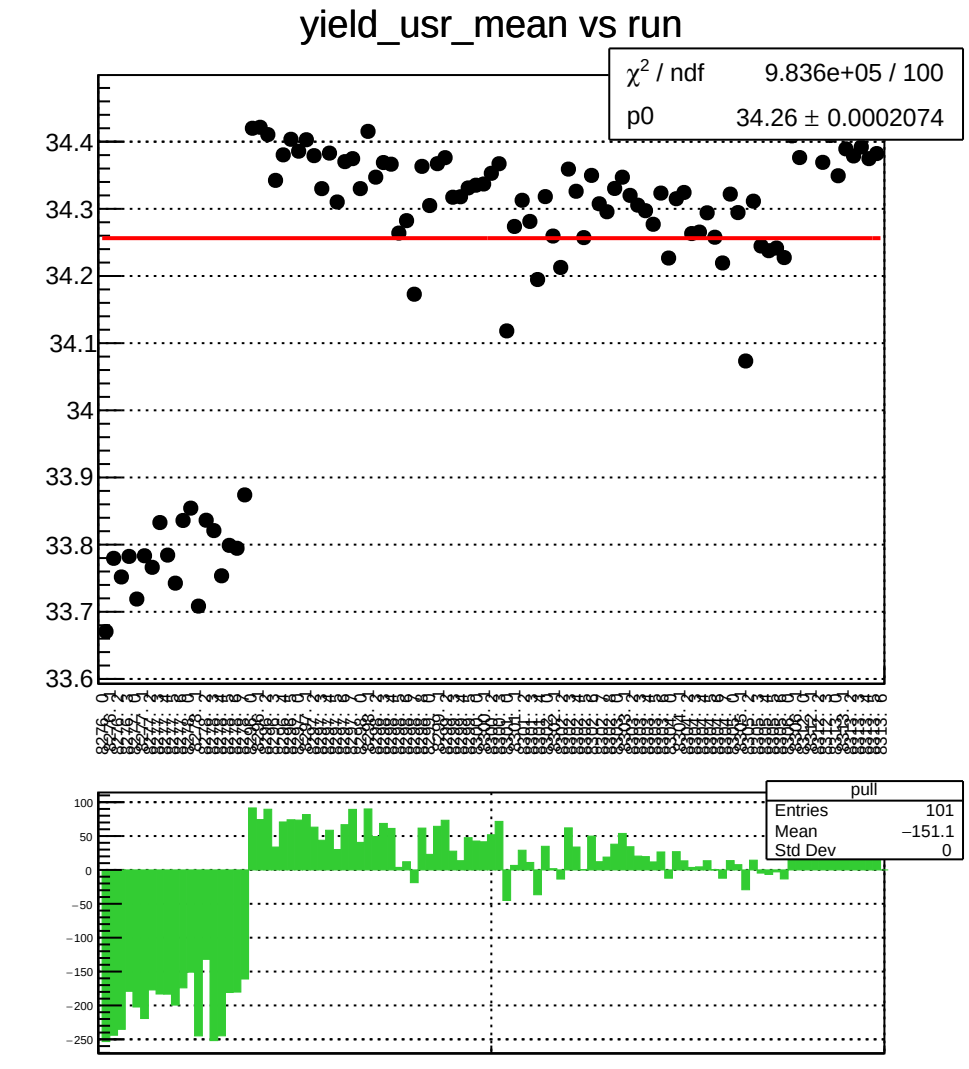

pull1D
Entries 101
Mean −0.0383
Std Dev 0.9646

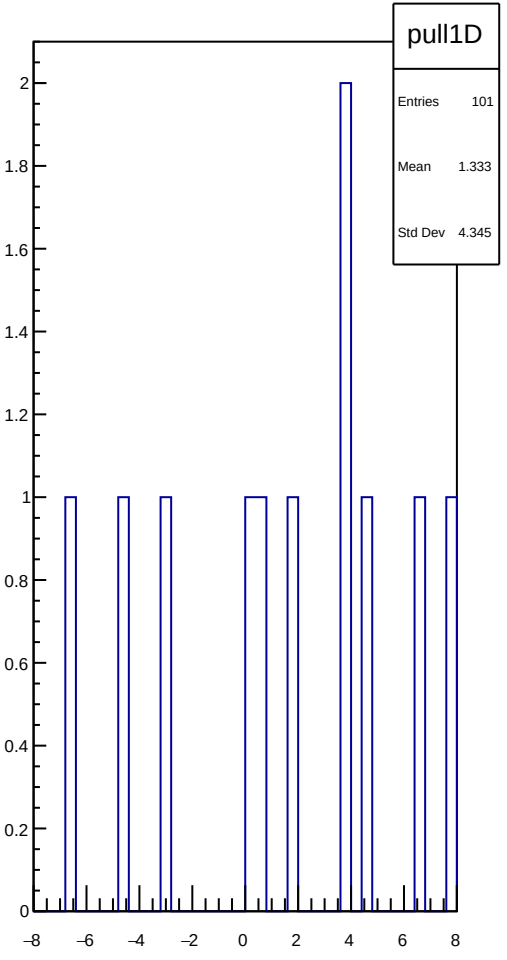

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.364e+05 / 100
p0 3.28e−11 ± 3.005e−14
0.25
0.2
0.15
0.1
0.05

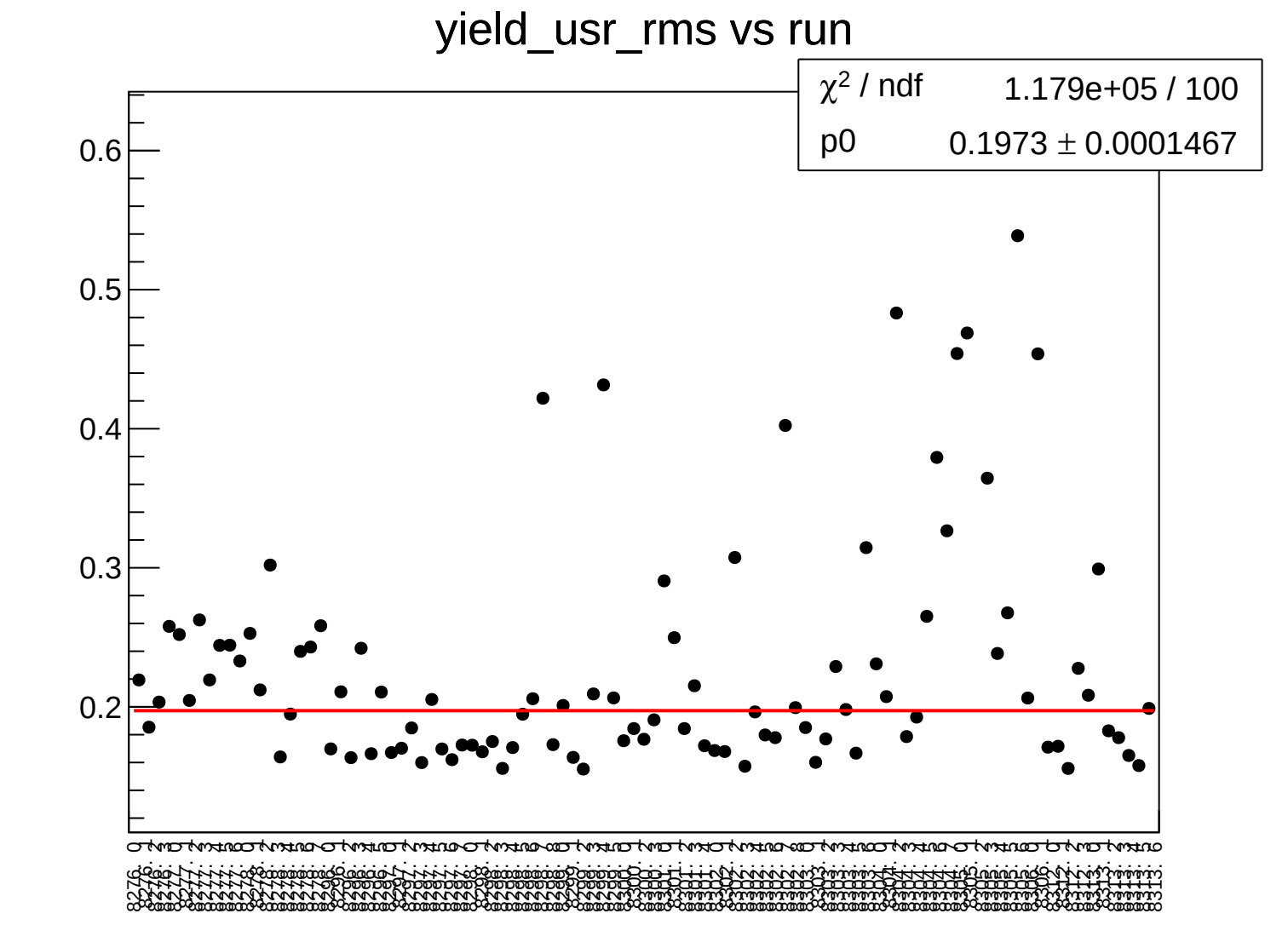

yield_usl_mean vs run
χ² / ndf 1.489e+06 / 100
p0 33.53 ± 0.0001061
33.7
33.6
33.5
33.4
33.3
33.2
33.1
pull
Entries 101
Mean −318.6
Std Dev 0
200
100
0
−100
−200
−300

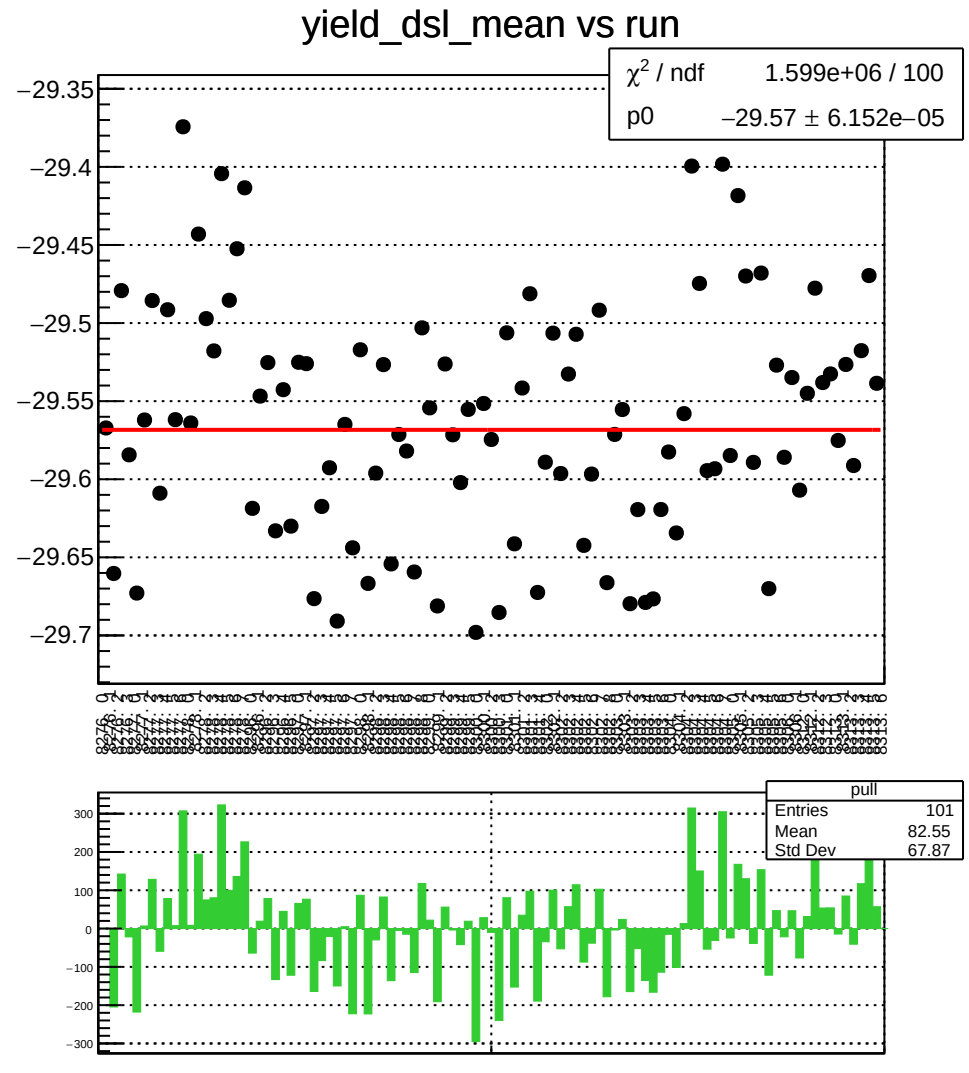

pull1D
Entries 101
Mean 1.899
Std Dev 3.934
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

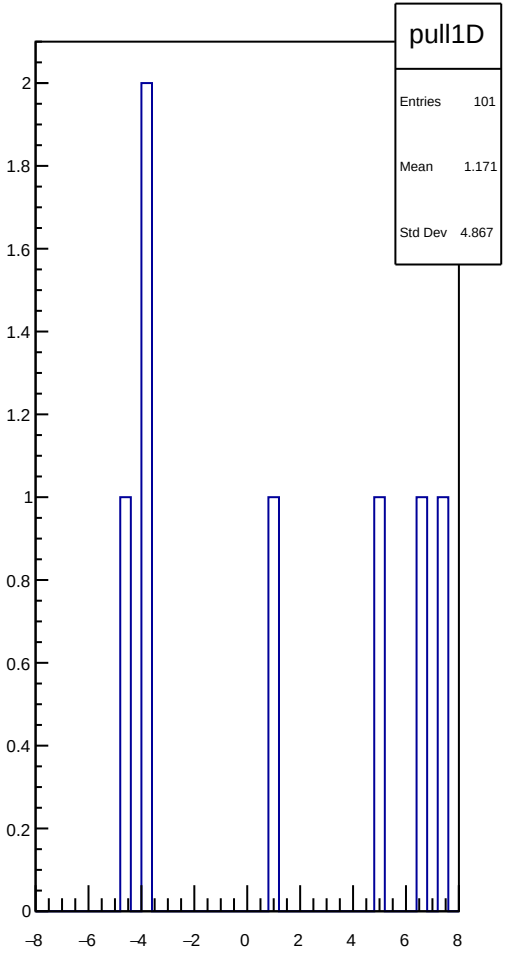

yield_usl_rms vs run
χ² / ndf 6.926e+04 / 100
p0 0.1023 ± 7.505e−05
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08

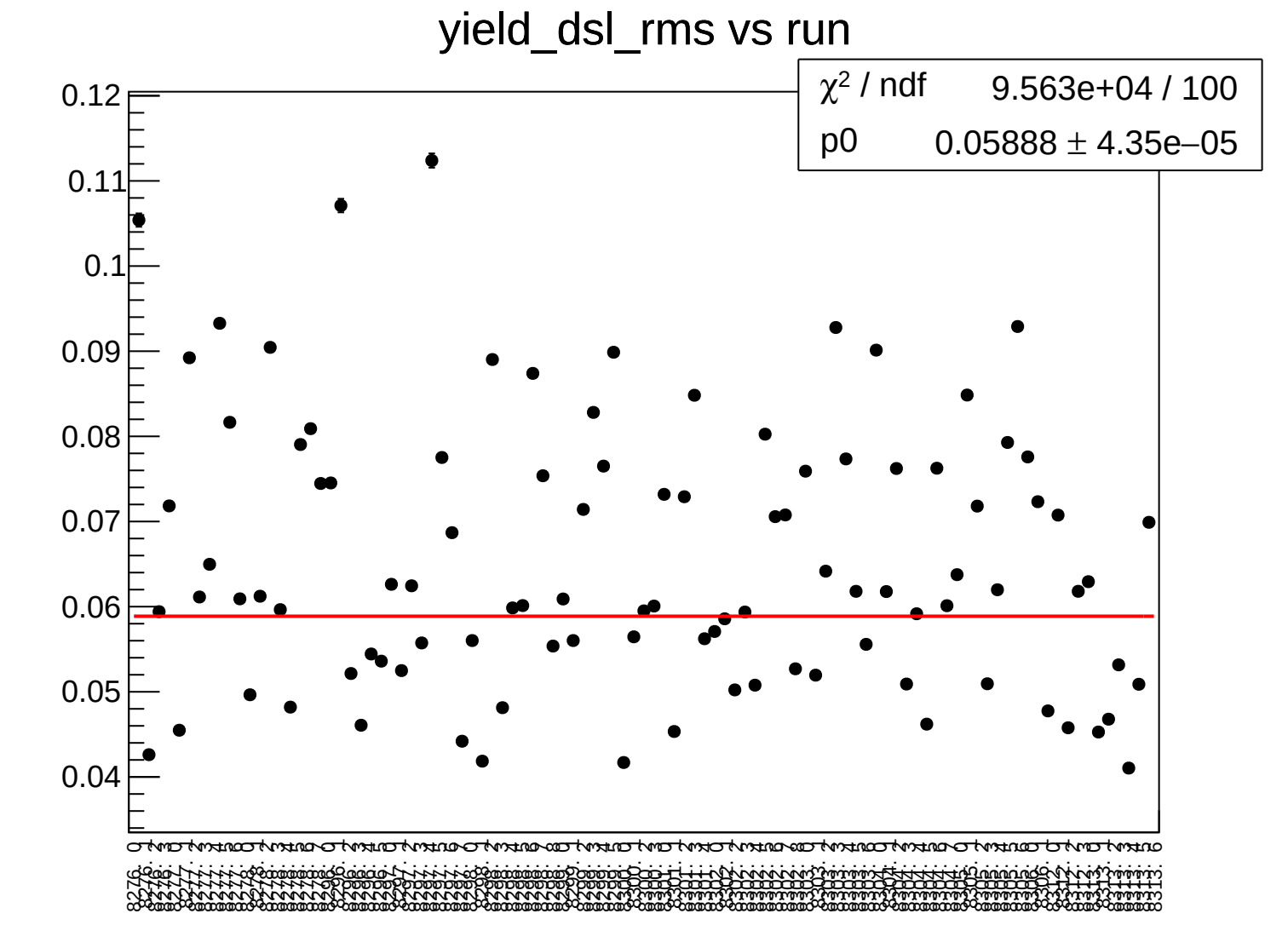

yield_usr_mean vs run
χ² / ndf 9.836e+05 / 100
p0 34.26 ± 0.0002074
34.4
34.3
34.2
34.1
34
33.9
33.8
33.7
33.6
pull
Entries 101
Mean −151.1
Std Dev 0
100
50
0
−50
−100
−150
−200
−250

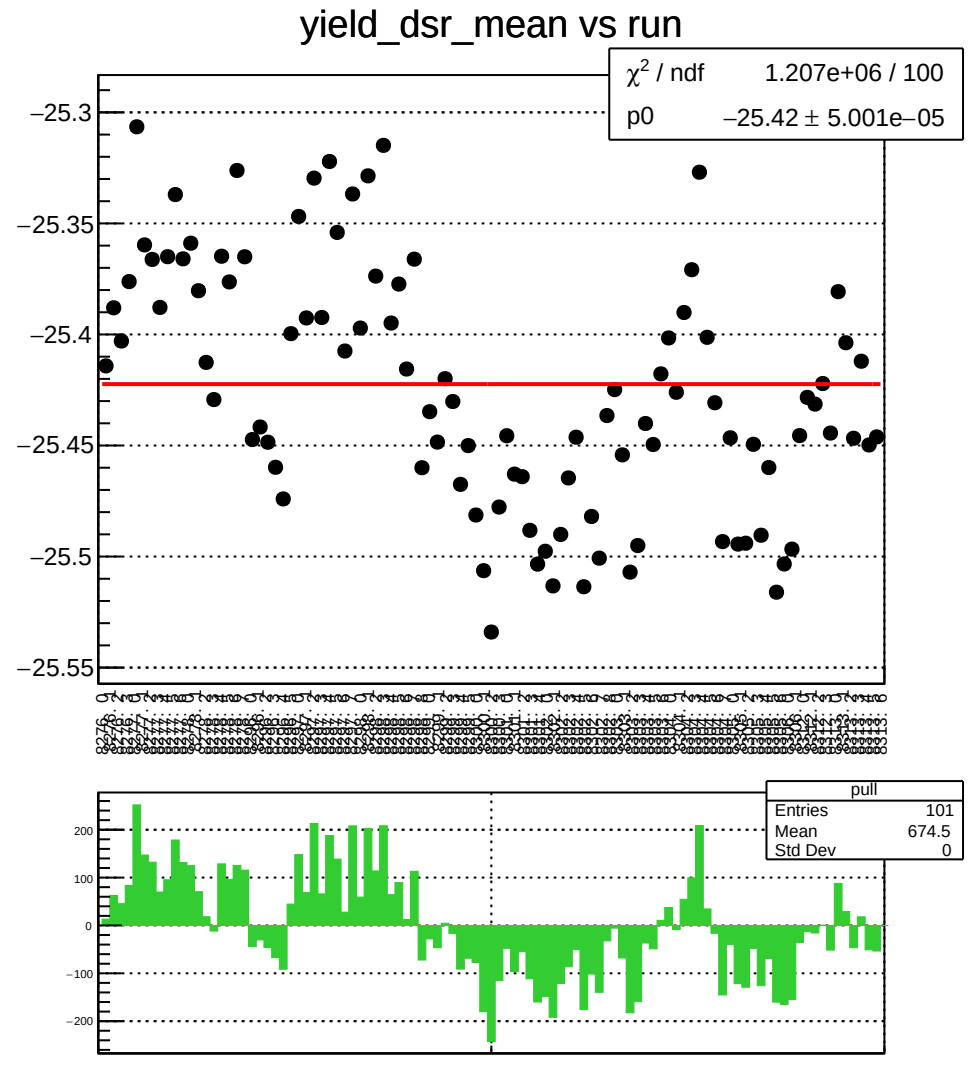

pull1D
Entries 101
Mean 1.333
Std Dev 4.345
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

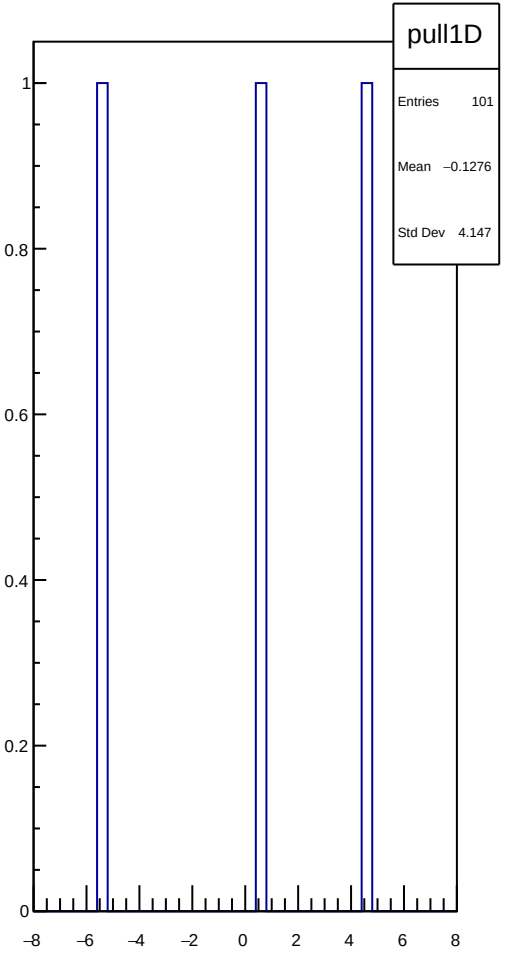

yield_usr_rms vs run
χ² / ndf 1.179e+05 / 100
p0 0.1973 ± 0.0001467
0.6
0.5
0.4
0.3
0.2

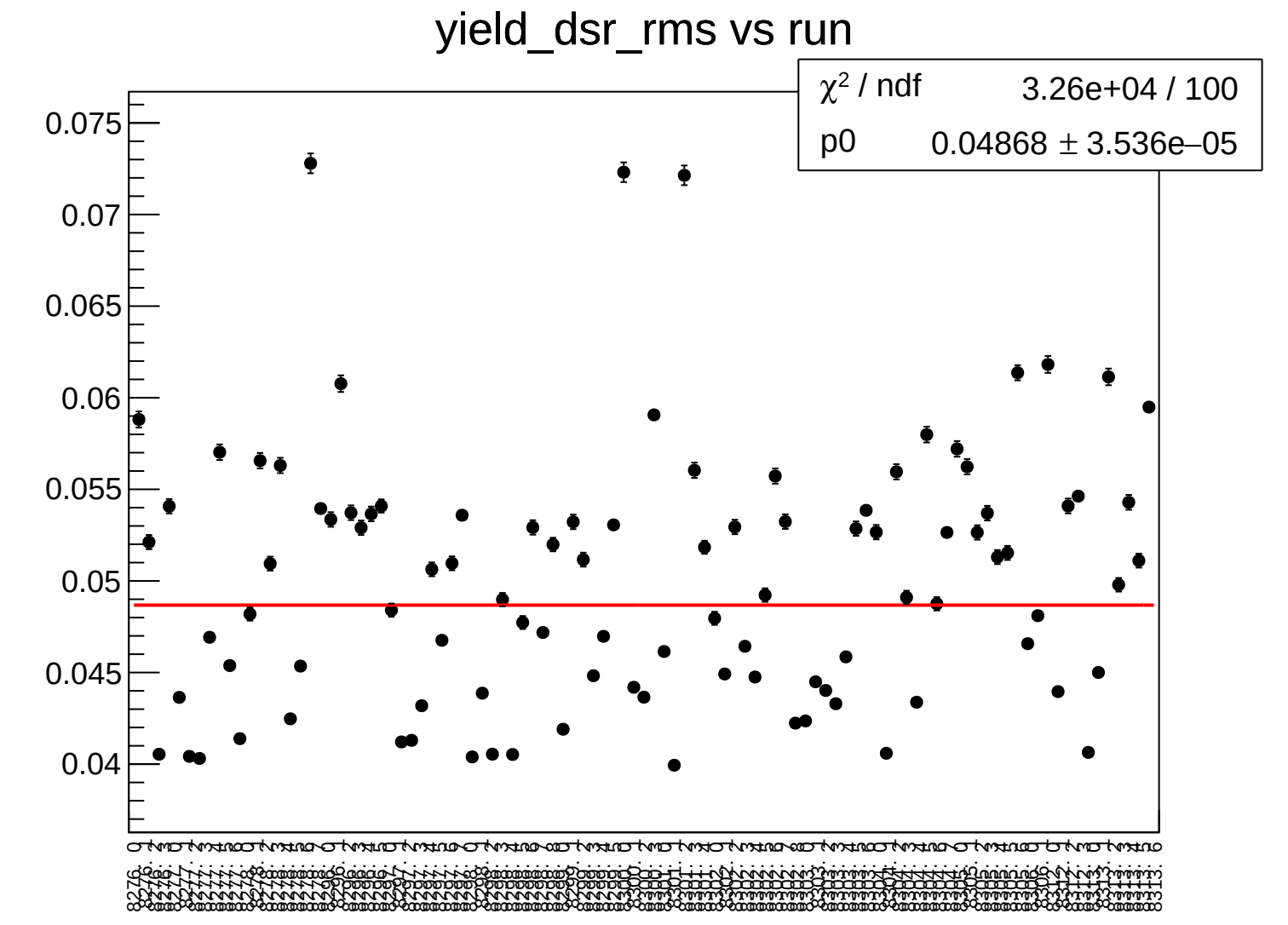

yield_dsl_mean vs run
χ² / ndf 1.599e+06 / 100
p0 −29.57 ± 6.152e−05
−29.35
−29.4
−29.45
−29.5
−29.55
−29.6
−29.65
−29.7
pull
Entries 101
Mean 82.55
Std Dev 67.87
300
200
100
0
−100
−200
−300

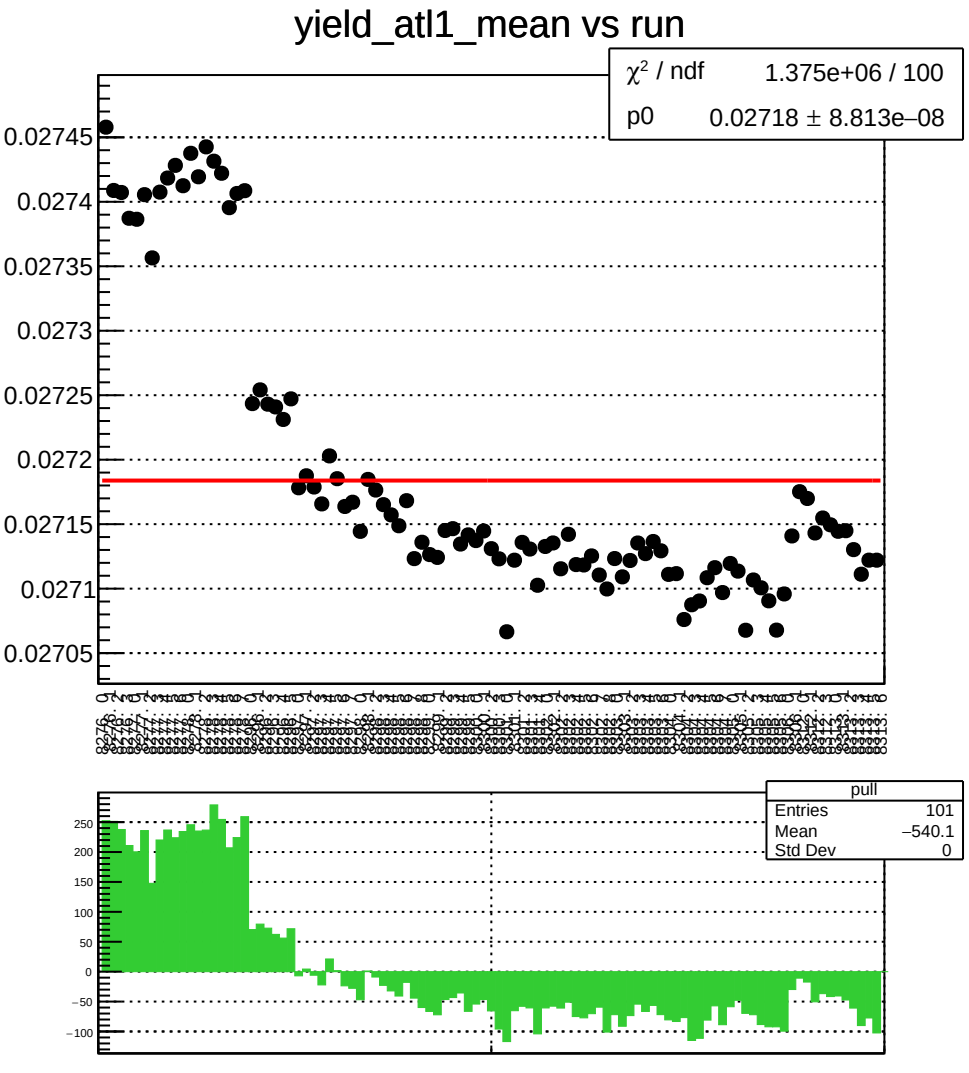

pull1D
Entries 101
Mean 1.171
Std Dev 4.867
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

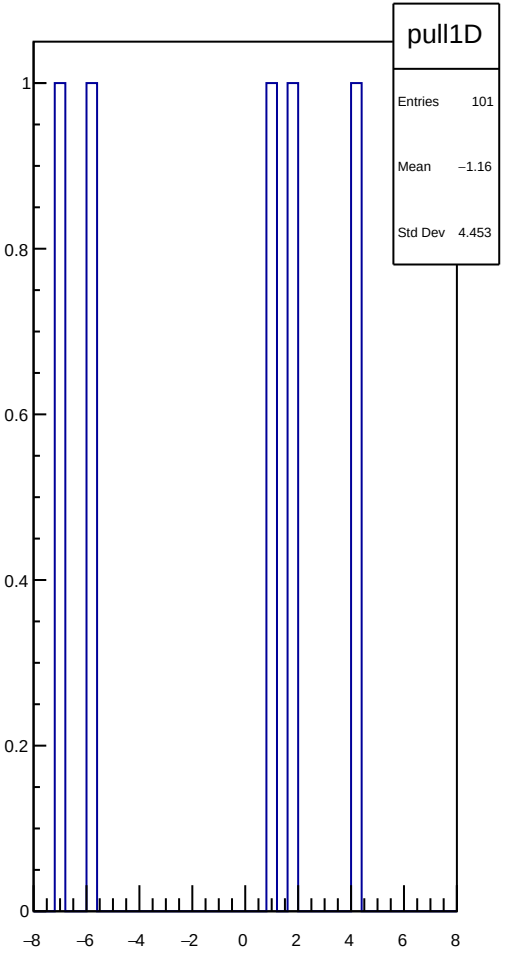

yield_dsl_rms vs run
χ² / ndf 9.563e+04 / 100
p0 0.05888 ± 4.35e−05
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04

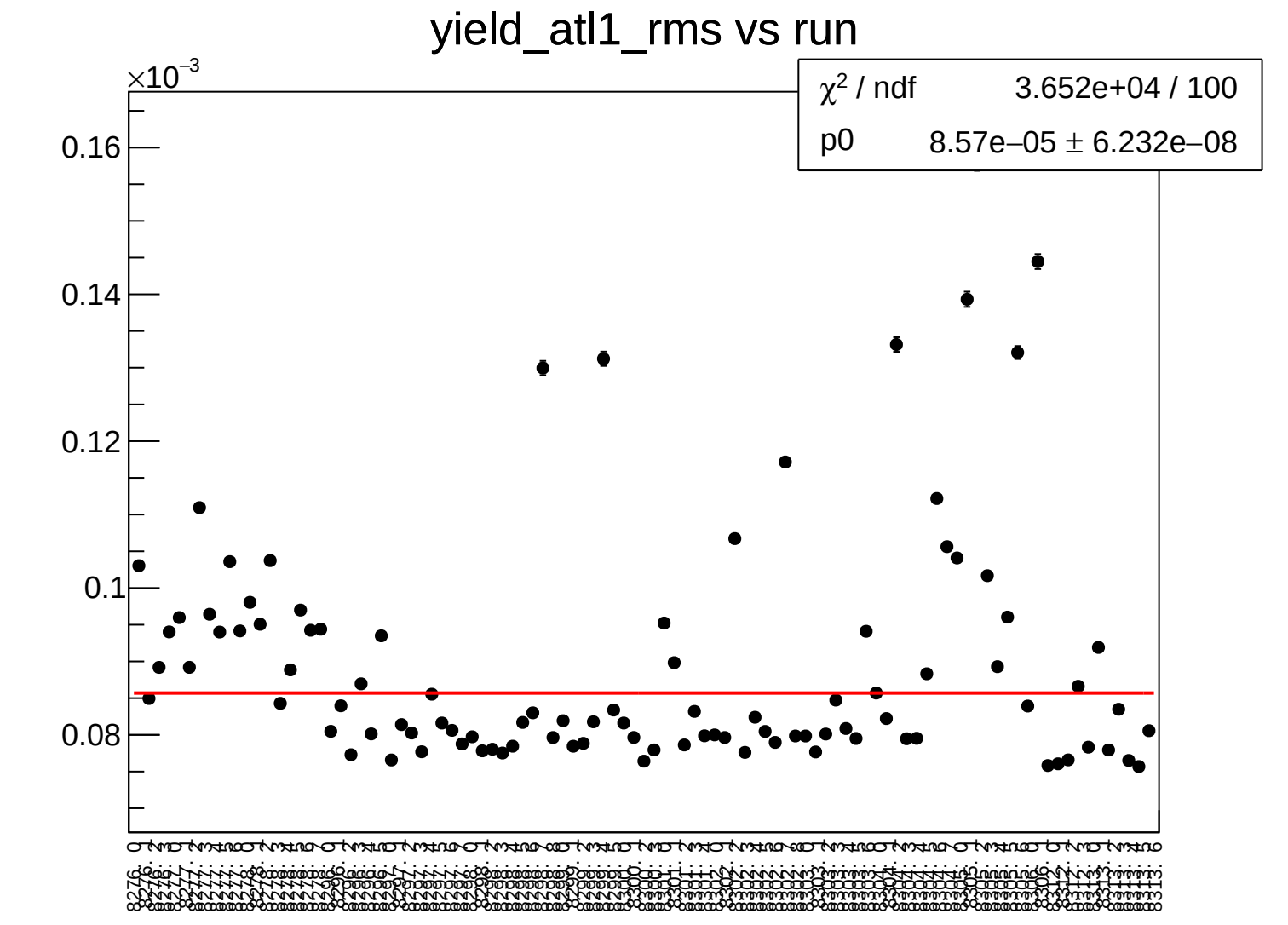

yield_dsr_mean vs run
χ² / ndf 1.207e+06 / 100
p0 −25.42 ± 5.001e−05
−25.3
−25.35
−25.4
−25.45
−25.5
−25.55
pull
Entries 101
Mean 674.5
Std Dev 0
200
100
0
−100
−200

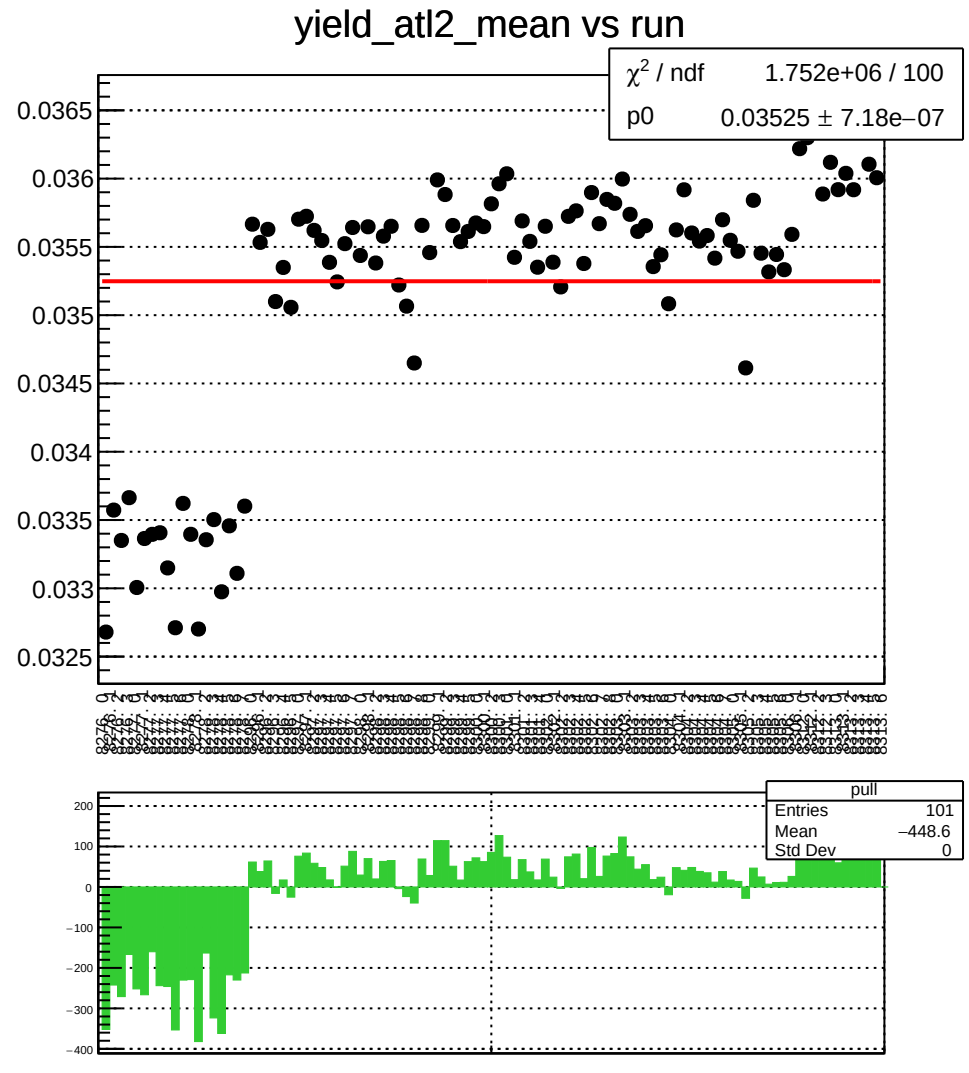

pull1D
Entries 101
Mean −0.1276
Std Dev 4.147
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

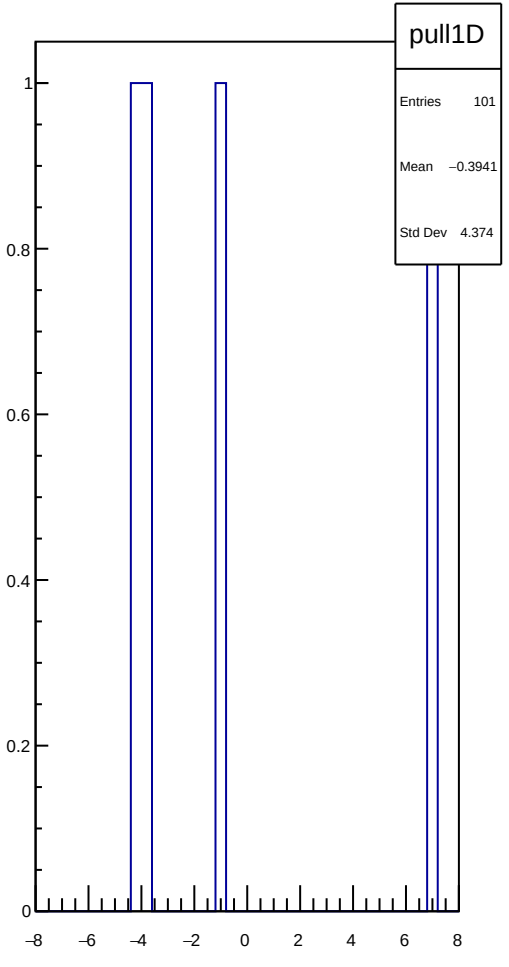

yield_dsr_rms vs run
χ² / ndf 3.26e+04 / 100
p0 0.04868 ± 3.536e−05
0.075
0.07
0.065
0.06
0.055
0.05
0.045
0.04

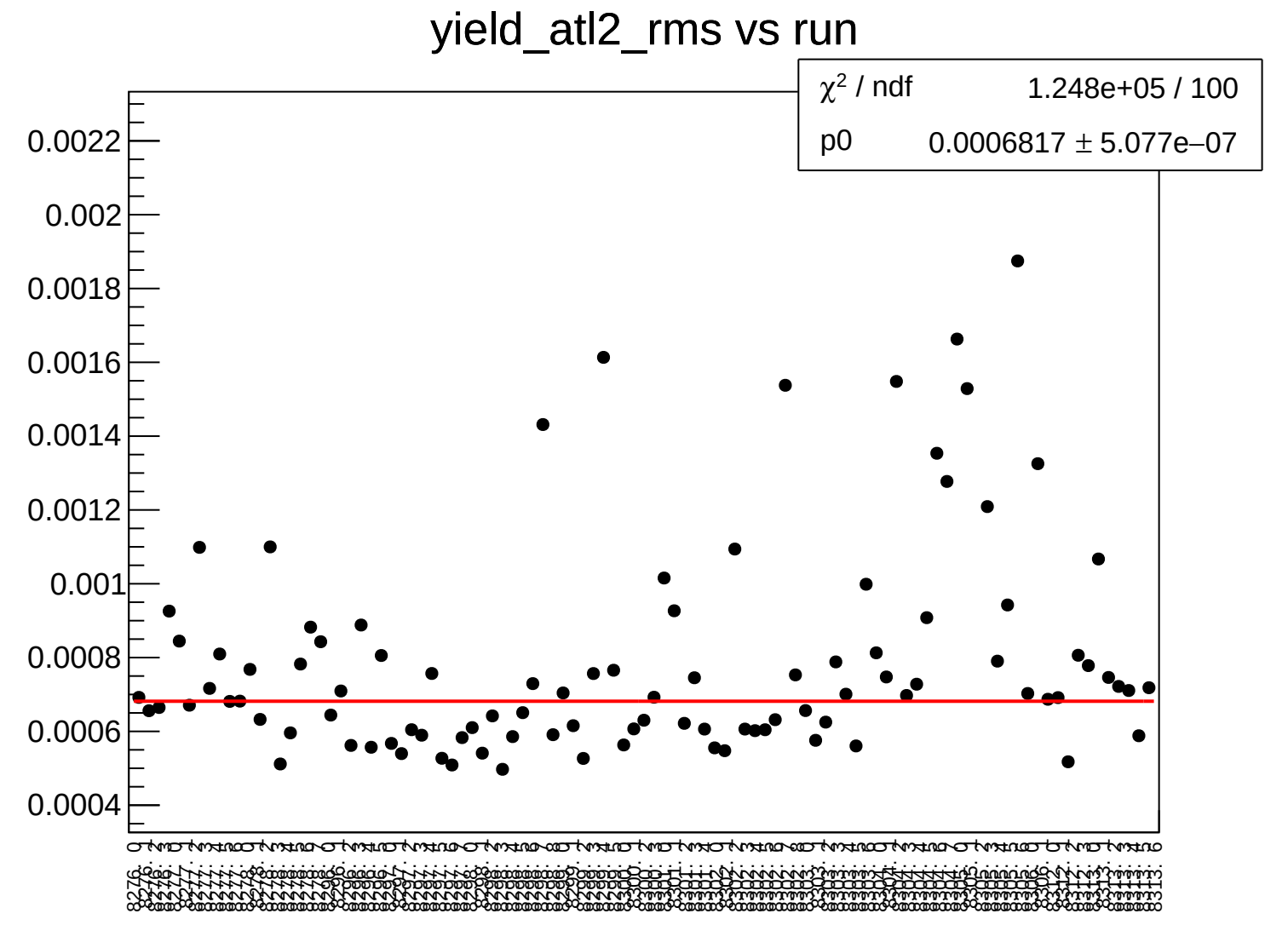

yield_atl1_mean vs run
χ² / ndf 1.375e+06 / 100
p0 0.02718 ± 8.813e−08
0.02745
0.0274
0.02735
0.0273
0.02725
0.0272
0.02715
0.0271
0.02705
pull
Entries 101
Mean −540.1
Std Dev 0
250
200
150
100
50
0
−50
−100

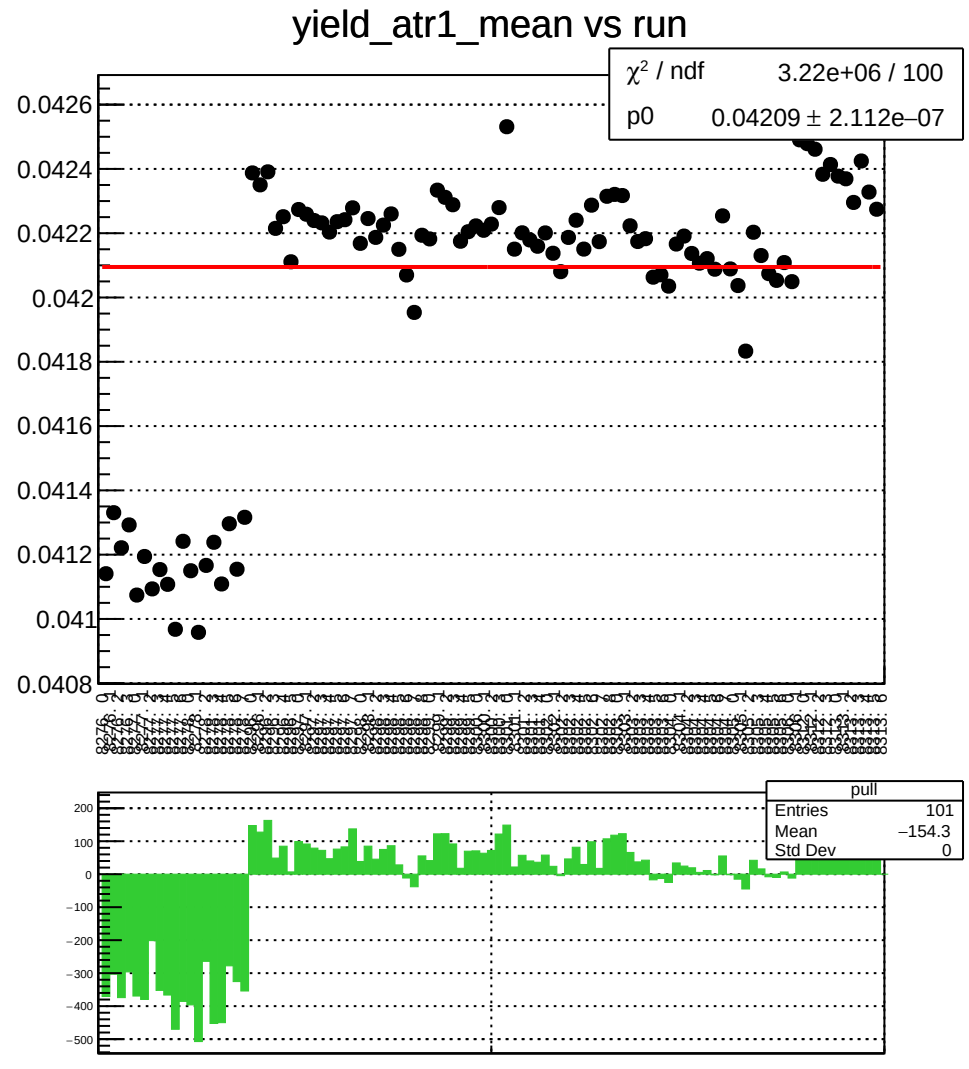

pull1D
Entries 101
Mean −1.16
Std Dev 4.453
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

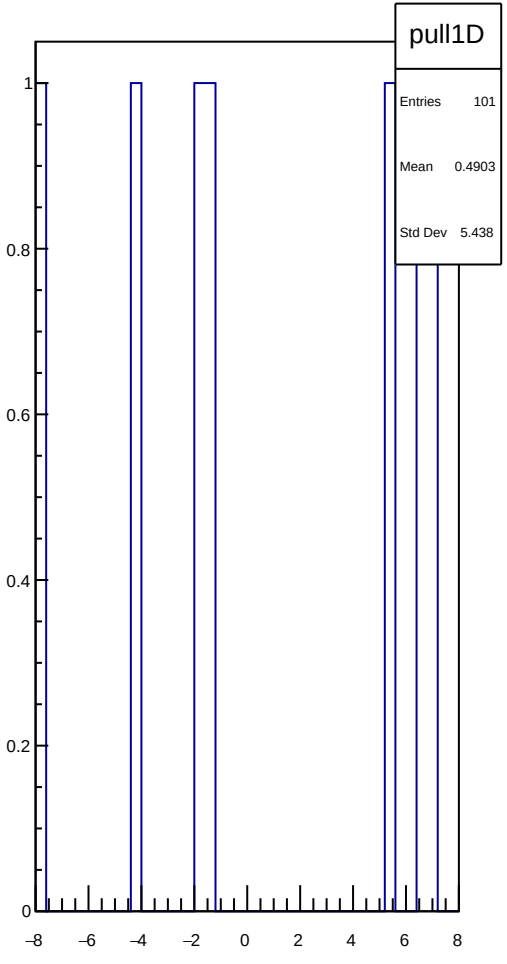

yield_atl1_rms vs run
×10⁻³
χ² / ndf 3.652e+04 / 100
p0 8.57e−05 ± 6.232e−08
0.16
0.14
0.12
0.1
0.08

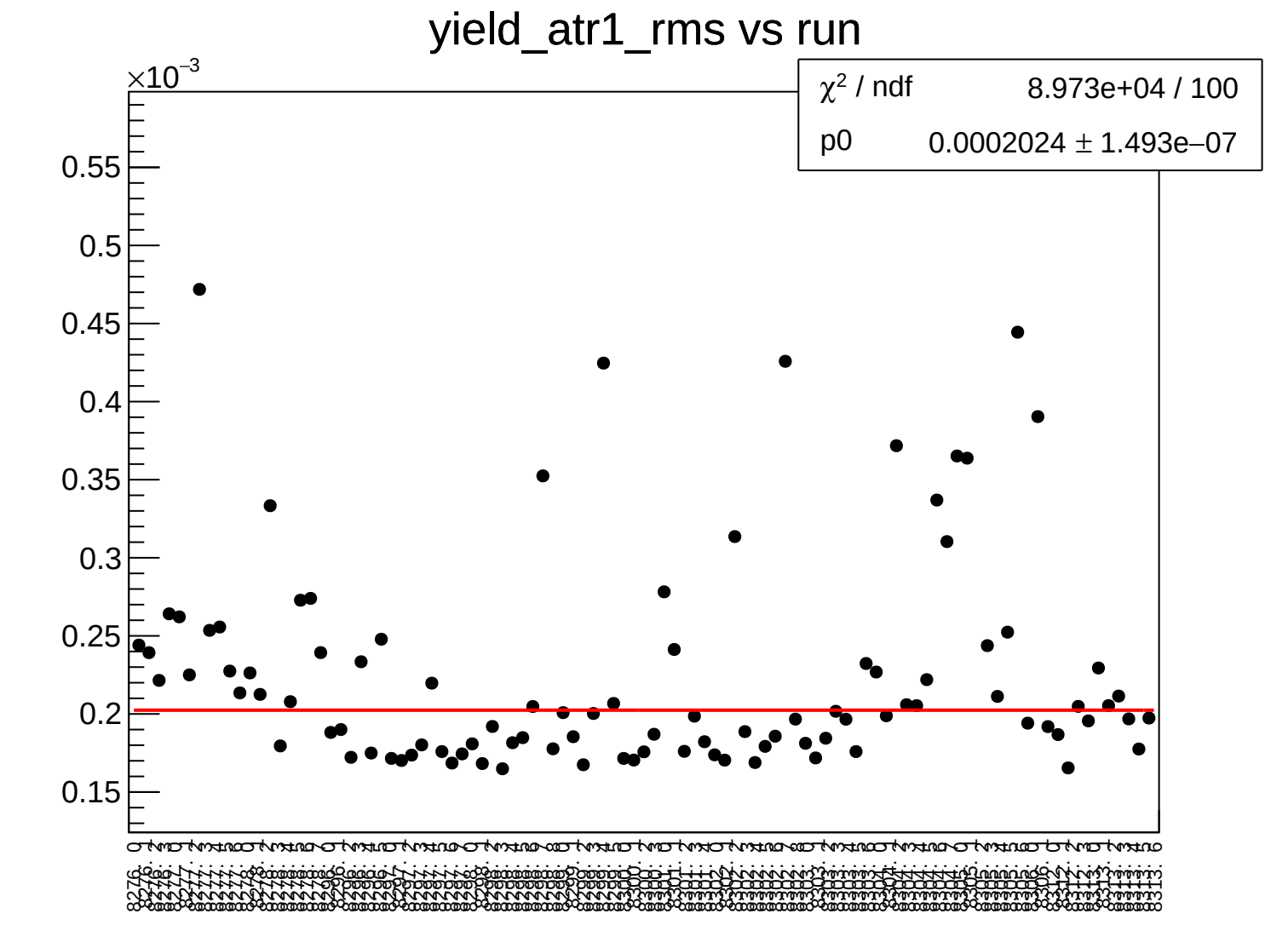

yield_atl2_mean vs run
χ² / ndf 1.752e+06 / 100
p0 0.03525 ± 7.18e−07
0.0365
0.036
0.0355
0.035
0.0345
0.034
0.0335
0.033
0.0325
pull
Entries 101
Mean −448.6
Std Dev 0
200
100
0
−100
−200
−300
−400

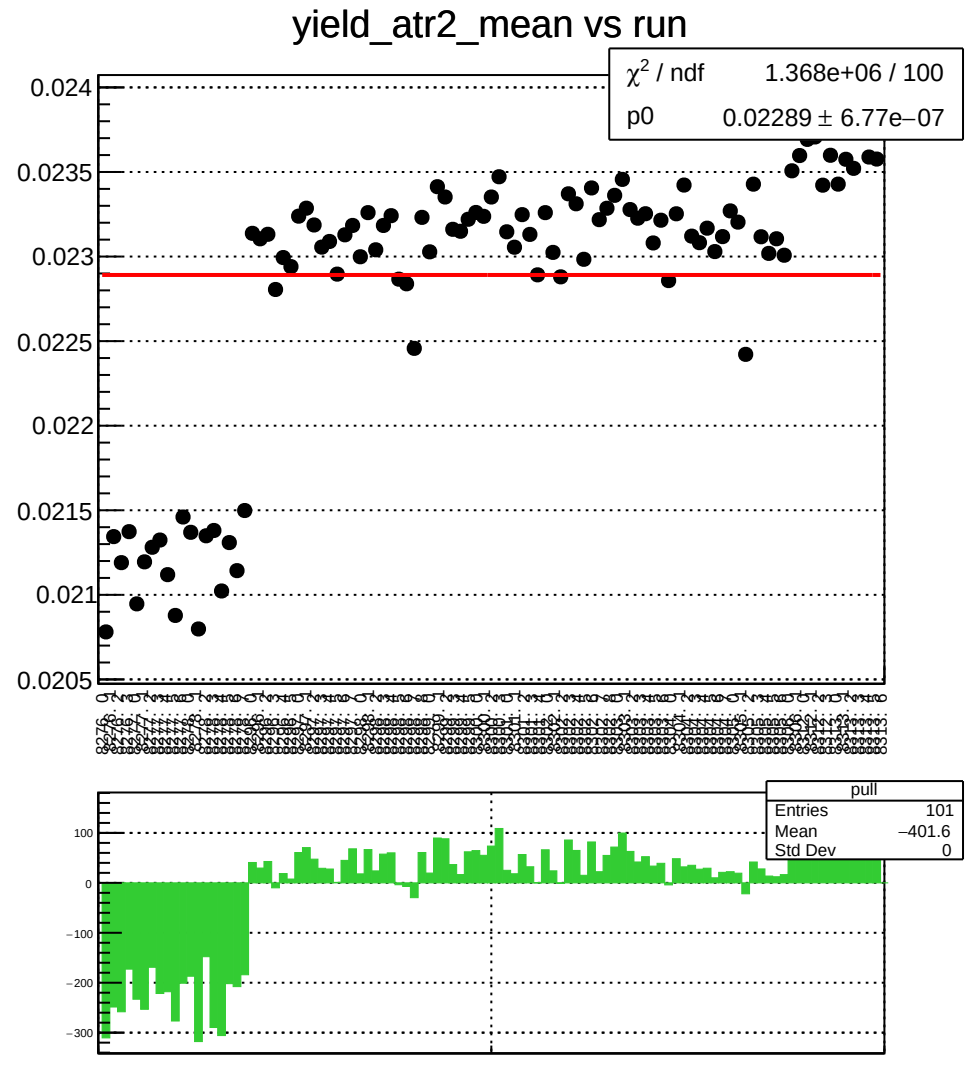

pull1D
Entries 101
Mean −0.3941
Std Dev 4.374
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

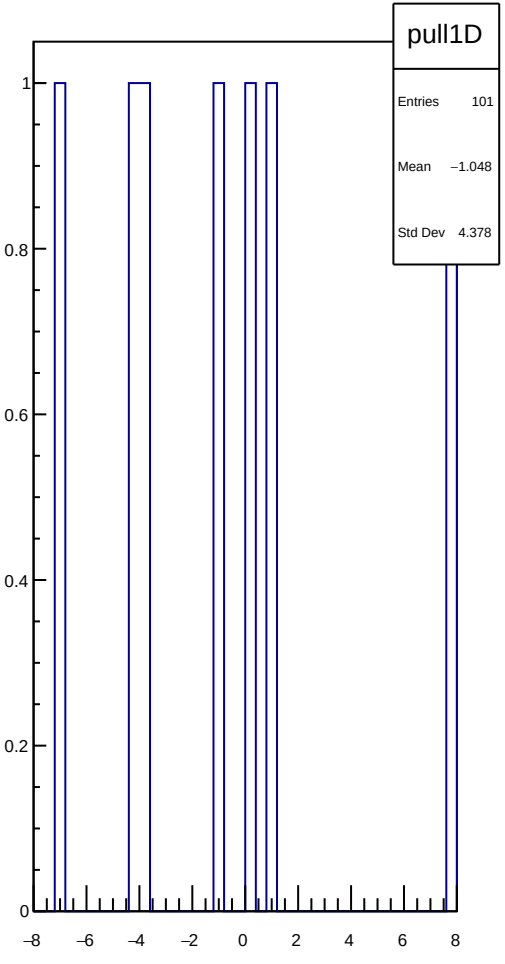

yield_atl2_rms vs run
χ² / ndf 1.248e+05 / 100
p0 0.0006817 ± 5.077e−07
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004

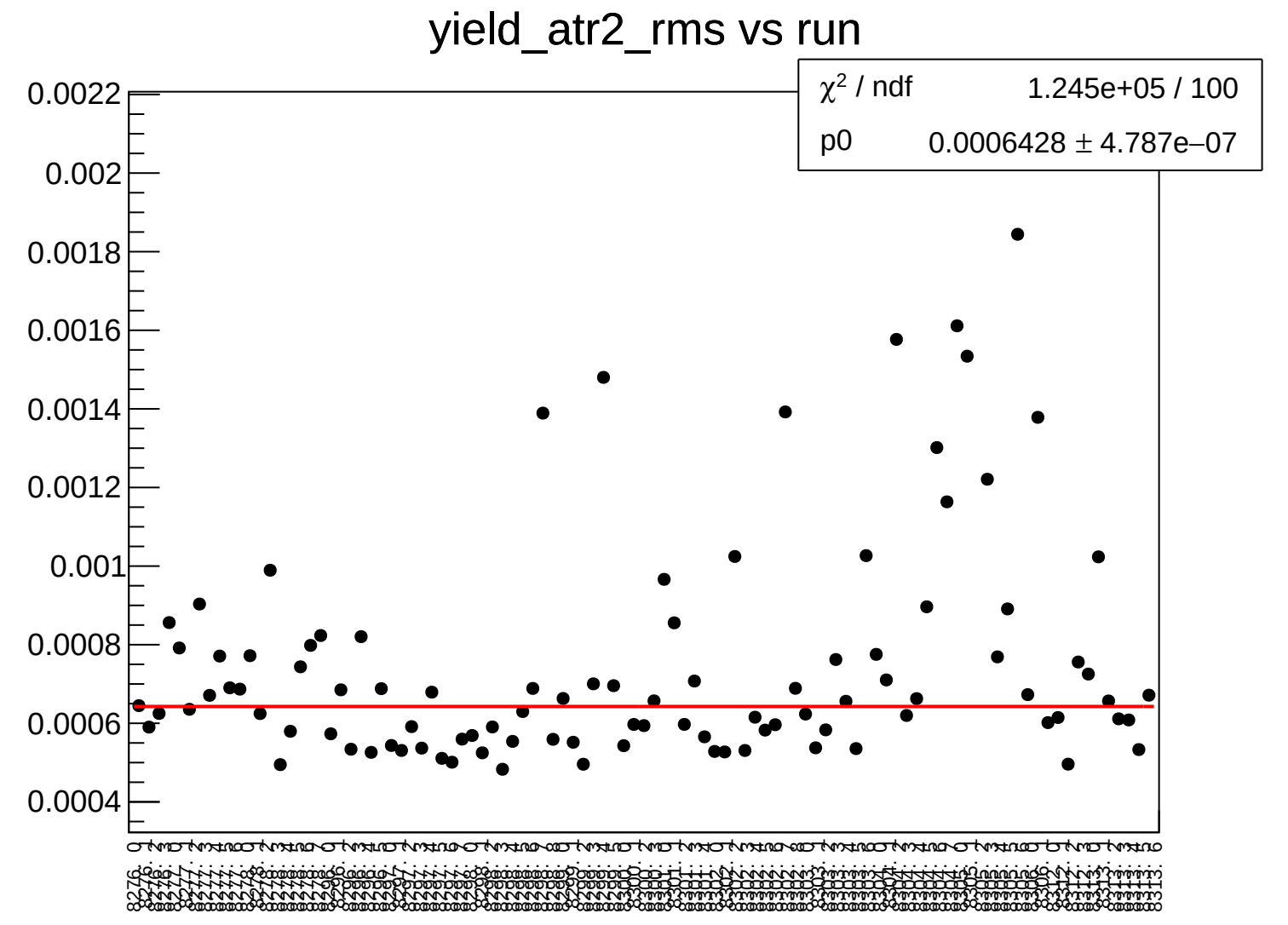

yield_atr1_mean vs run
χ² / ndf 3.22e+06 / 100
p0 0.04209 ± 2.112e−07
0.0426
0.0424
0.0422
0.042
0.0418
0.0416
0.0414
0.0412
0.041
0.0408
pull
Entries 101
Mean −154.3
Std Dev 0
200
100
0
−100
−200
−300
−400
−500

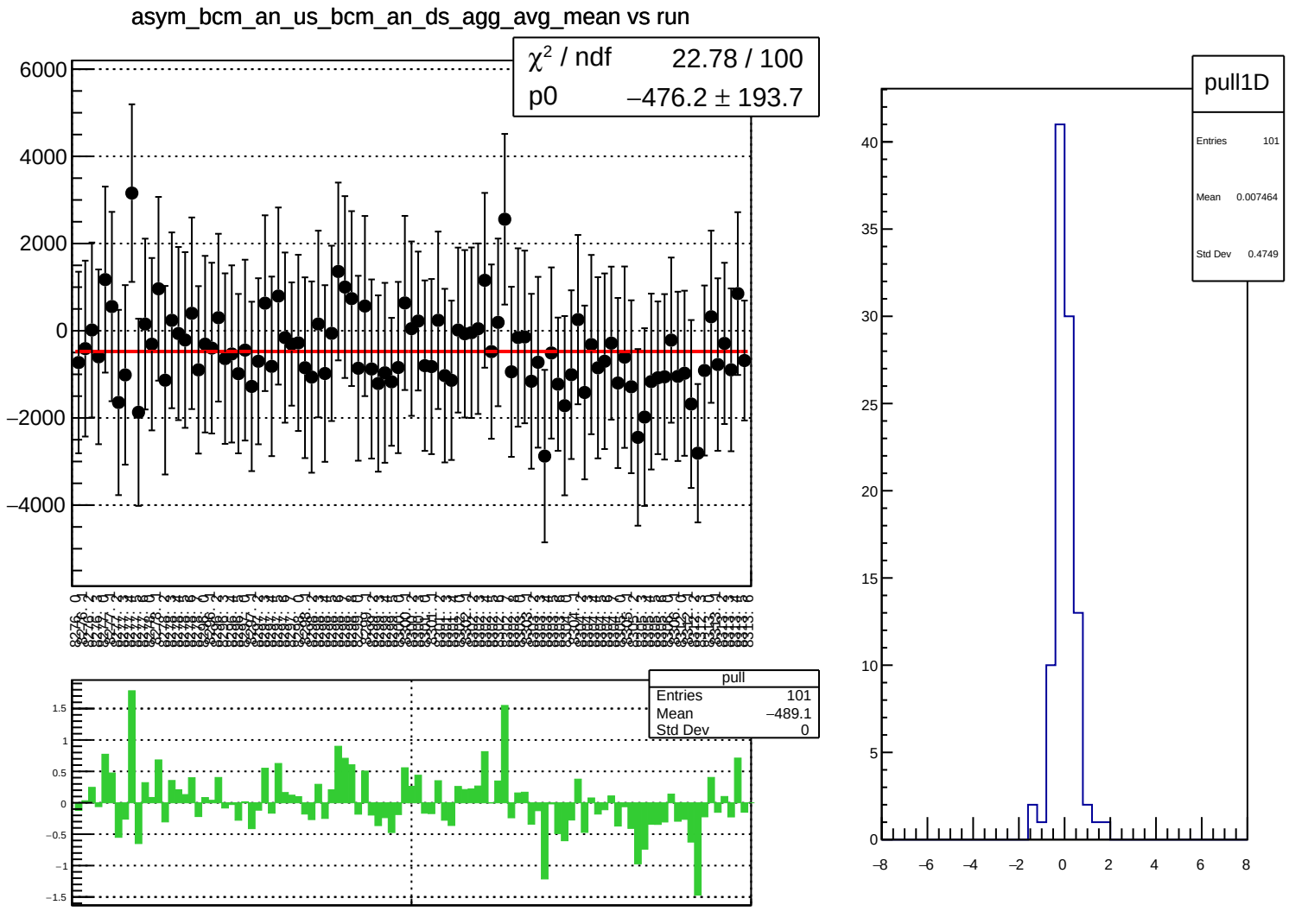

pull1D
Entries 101
Mean 0.4903
Std Dev 5.438
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

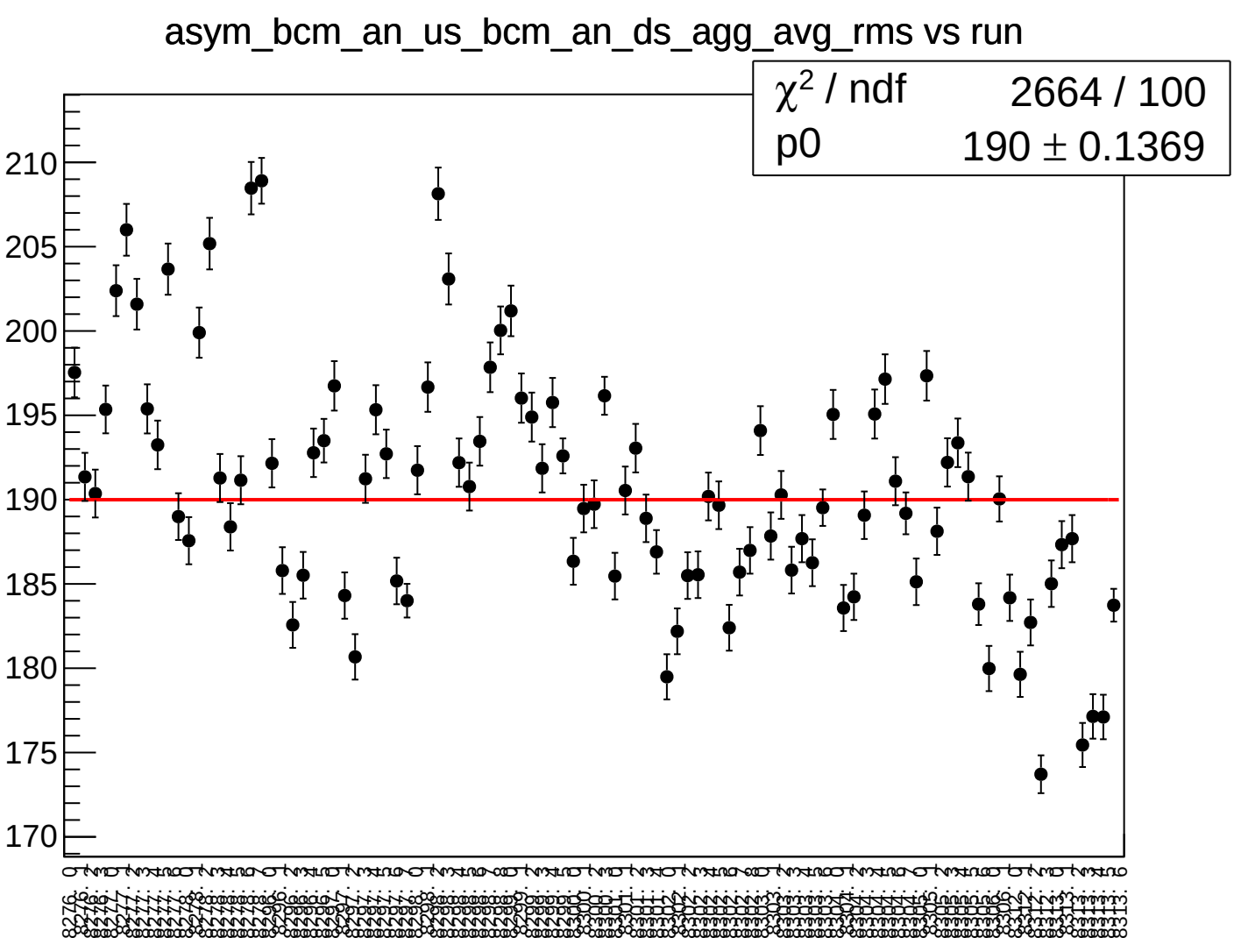

yield_atr1_rms vs run
×10⁻³
χ² / ndf 8.973e+04 / 100
p0 0.0002024 ± 1.493e−07
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15

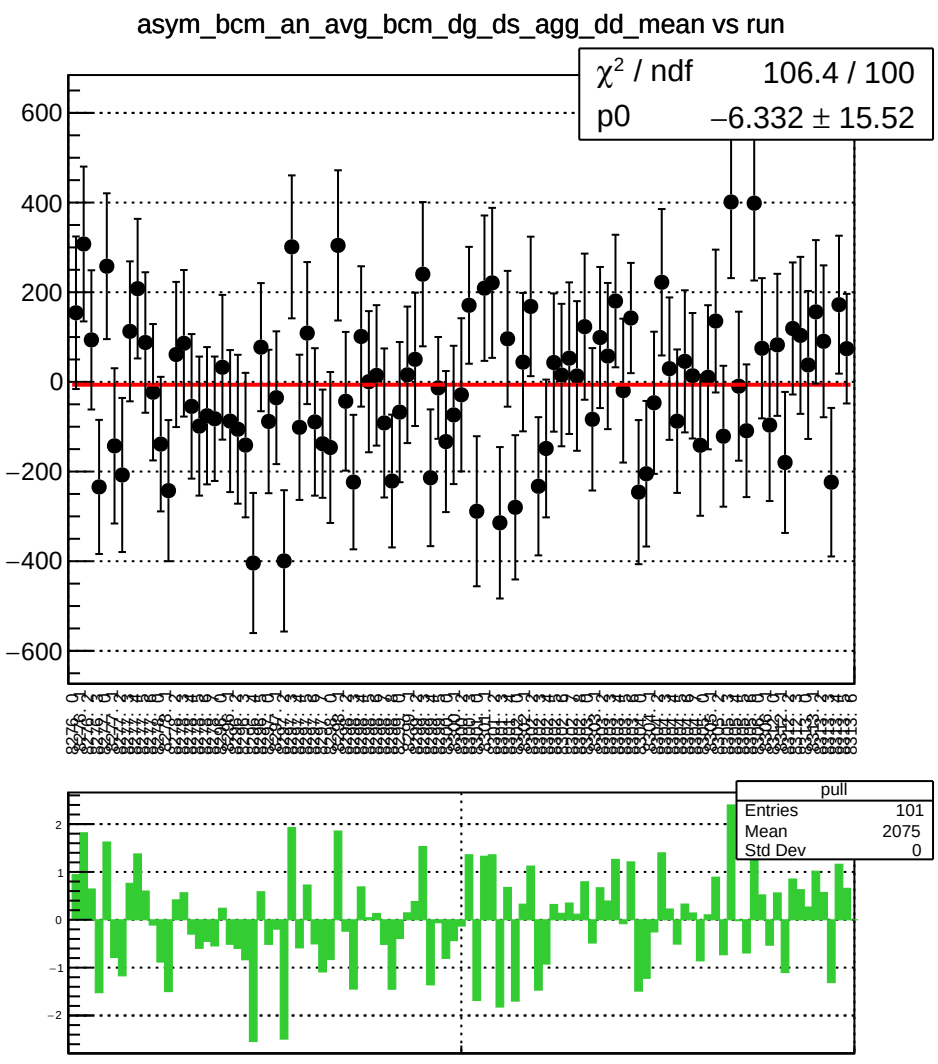

yield_atr2_mean vs run
χ² / ndf 1.368e+06 / 100
p0 0.02289 ± 6.77e−07
0.024
0.0235
0.023
0.0225
0.022
0.0215
0.021
0.0205
pull
Entries 101
Mean −401.6
Std Dev 0
100
0
−100
−200
−300

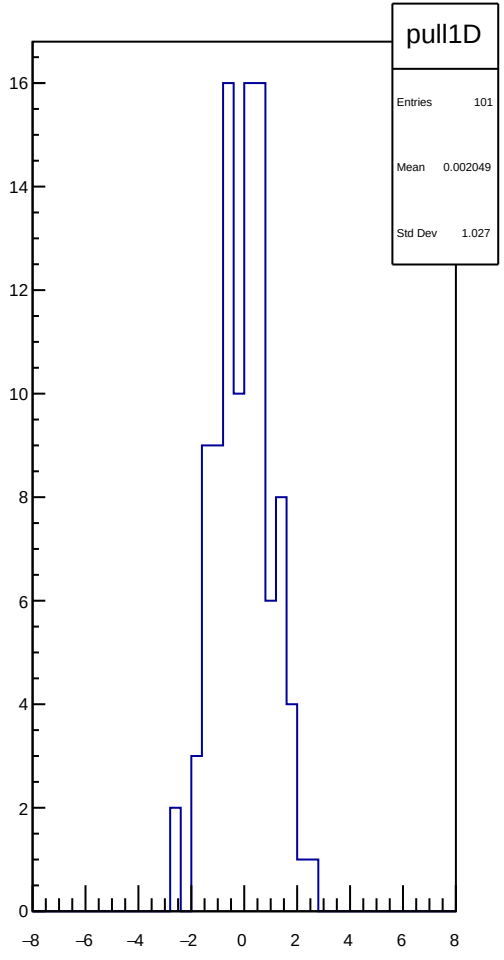

pull1D
Entries 101
Mean −1.048
Std Dev 4.378
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

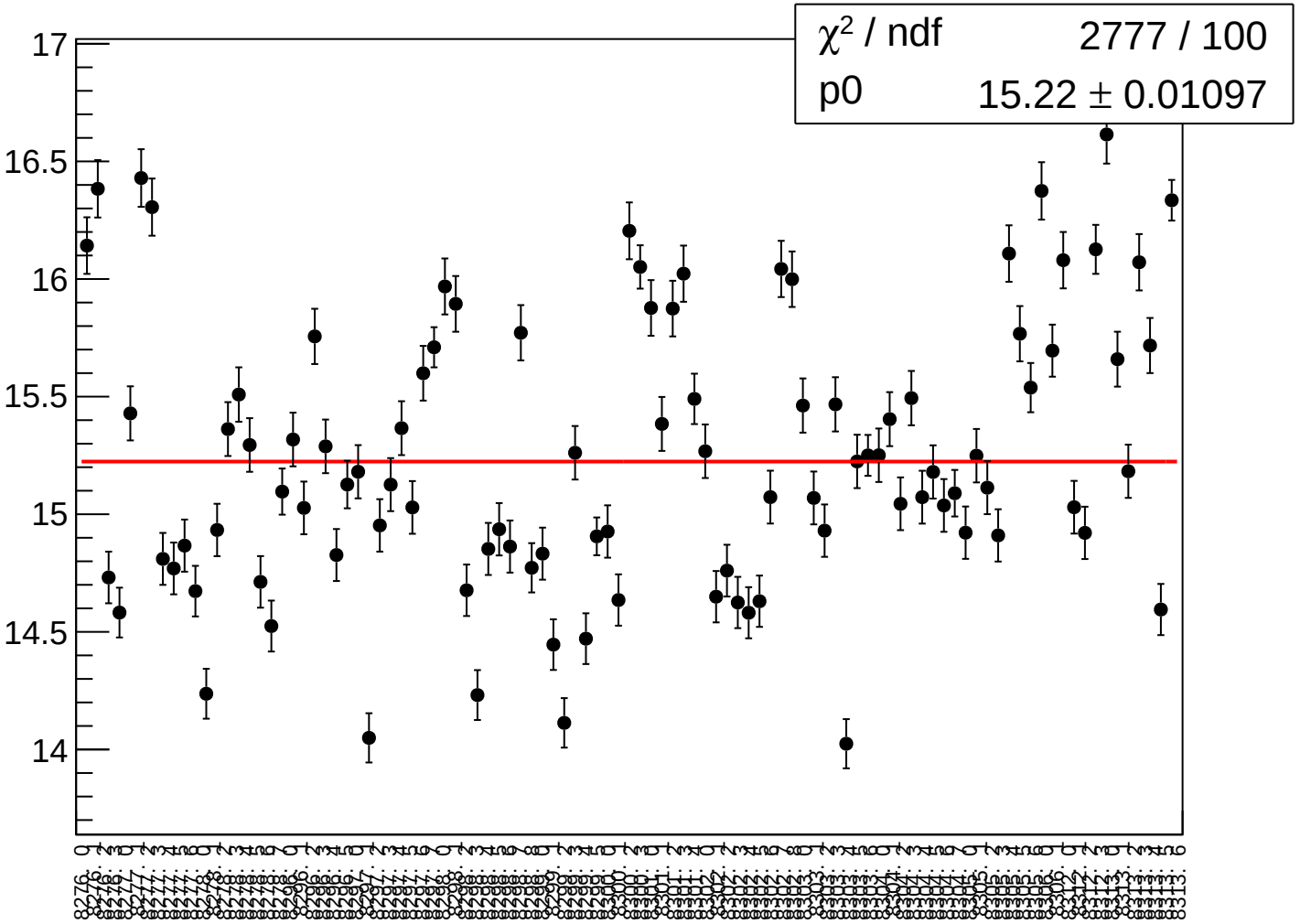

yield_atr2_rms vs run
χ² / ndf 1.245e+05 / 100
p0 0.0006428 ± 4.787e−07
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004

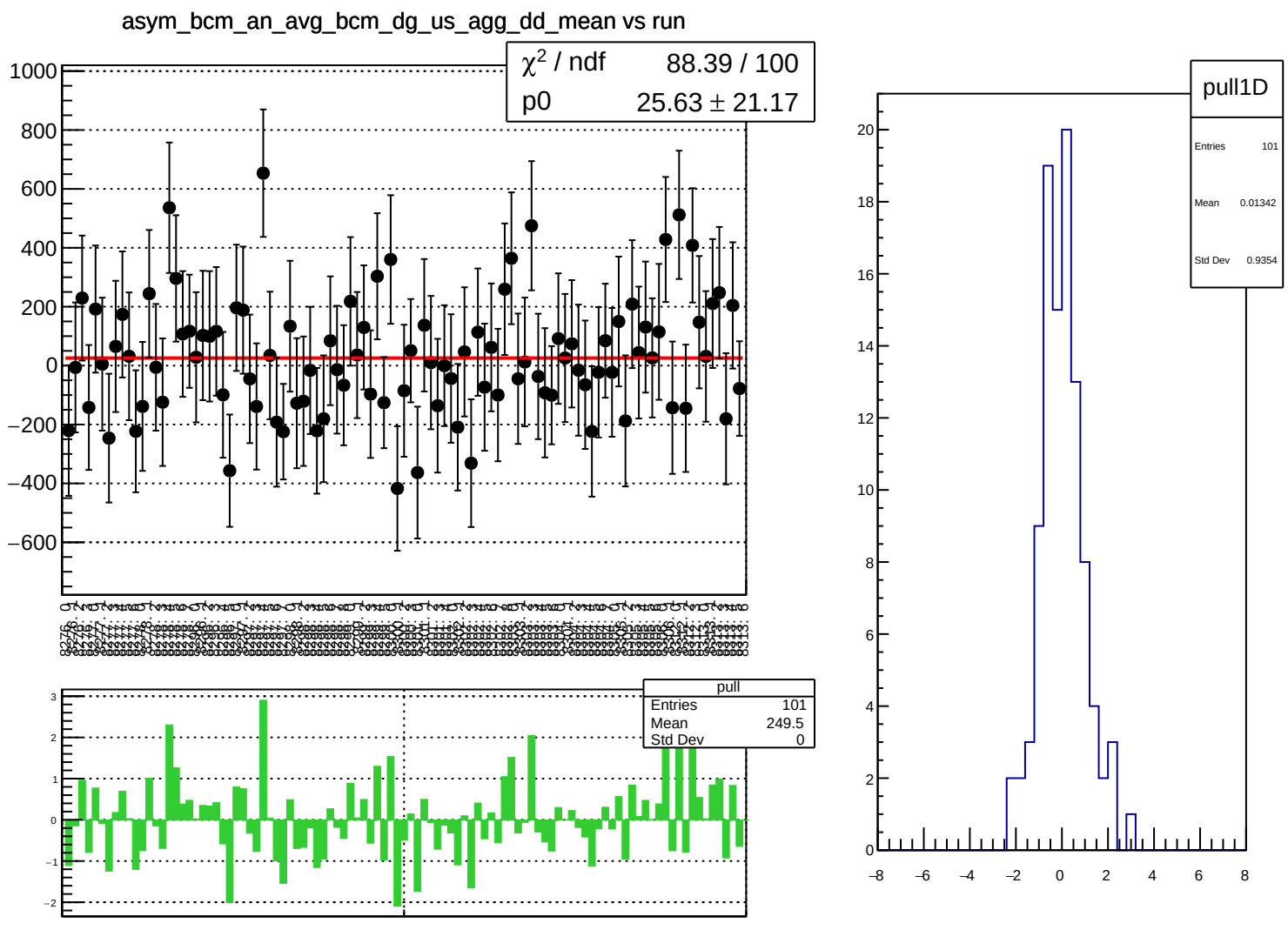

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 22.78 / 100
p0 −476.2 ± 193.7
6000
4000
2000
0
−2000
−4000
pull
Entries 101
Mean −489.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 101
Mean 0.007464
Std Dev 0.4749
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

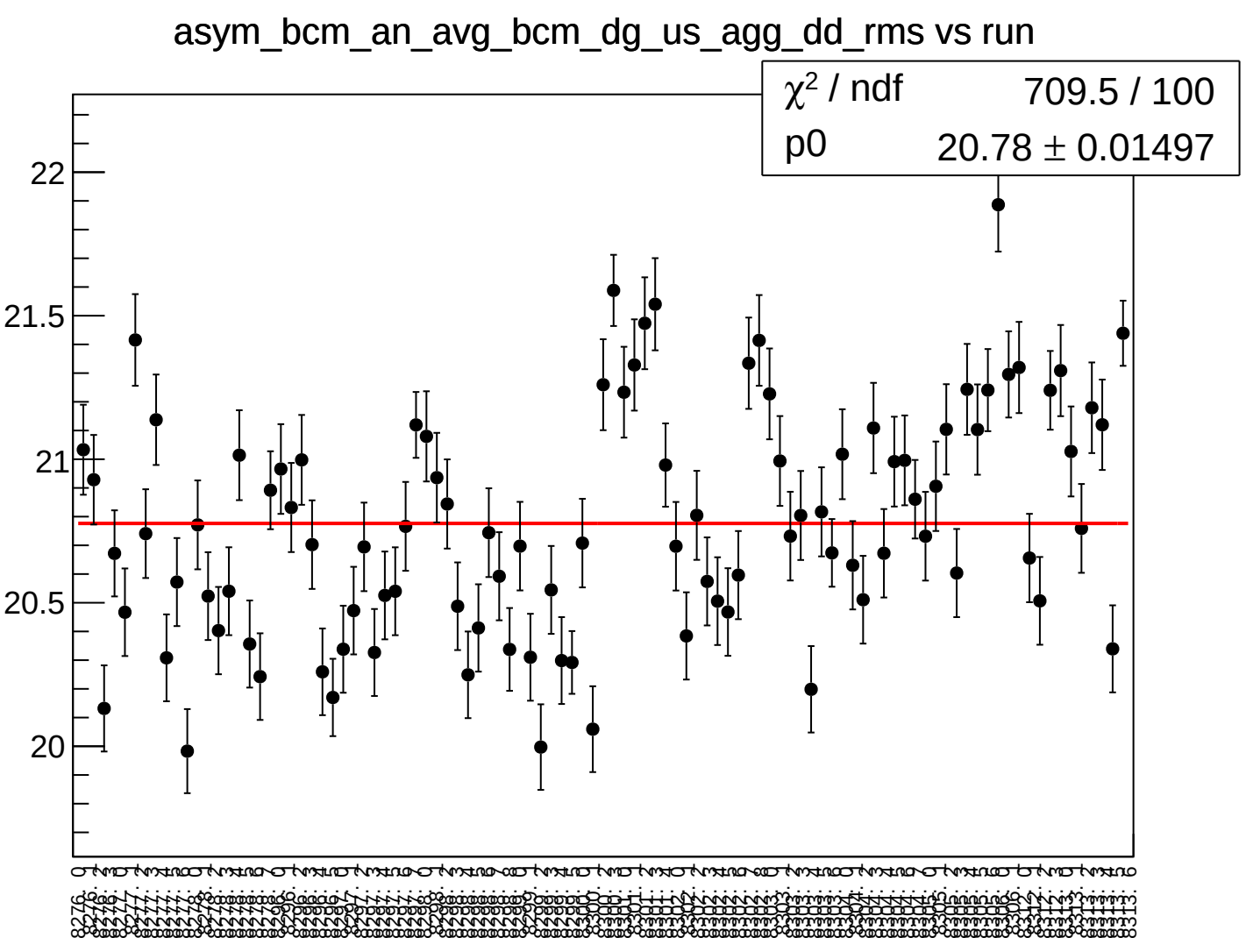

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2664 / 100
p0 190 ± 0.1369
210
205
200
195
190
185
180
175
170

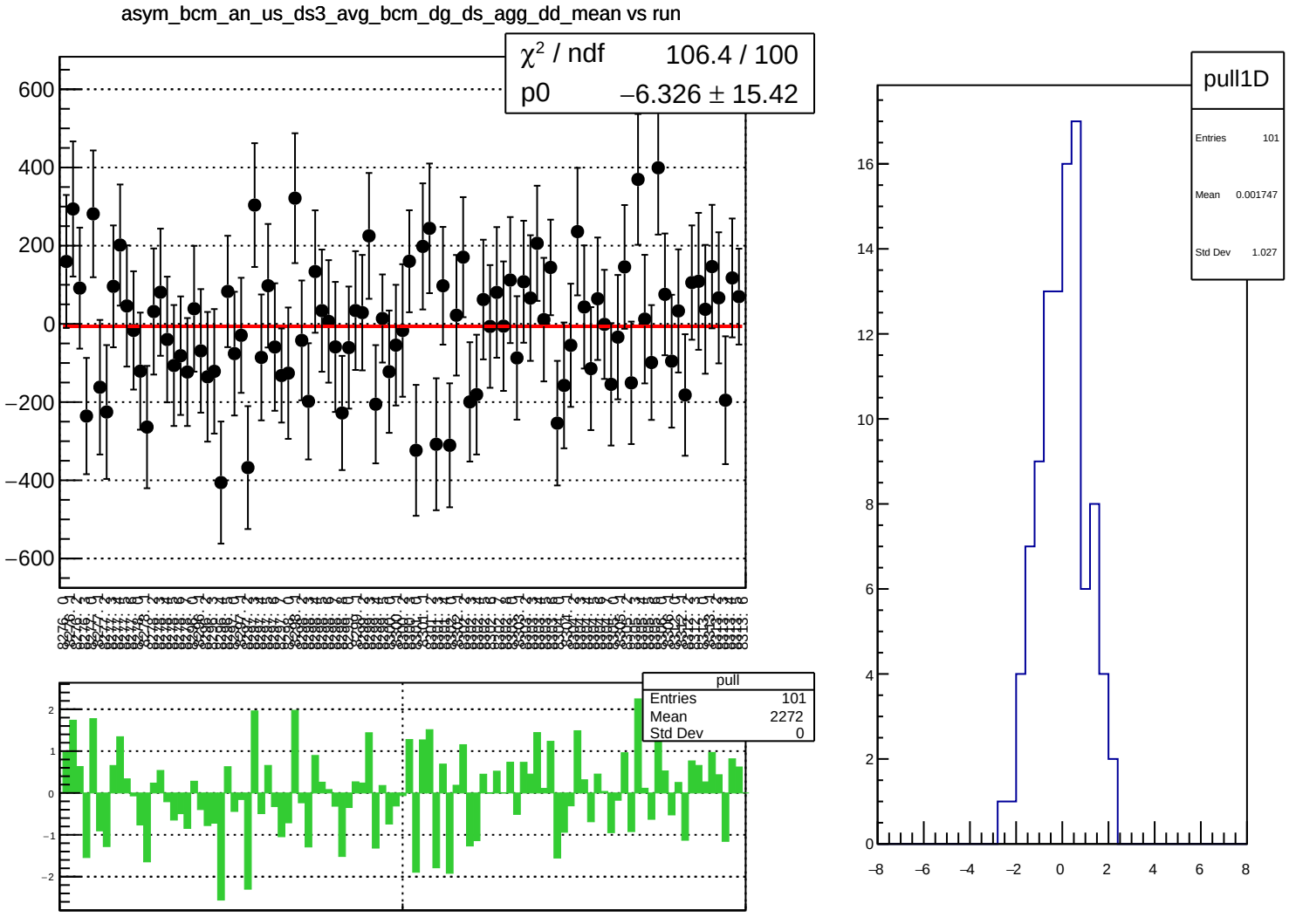

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 106.4 / 100
p0 −6.332 ± 15.52
600
400
200
0
−200
−400
−600
pull
Entries 101
Mean 2075
Std Dev 0
2
1
0
−1
−2

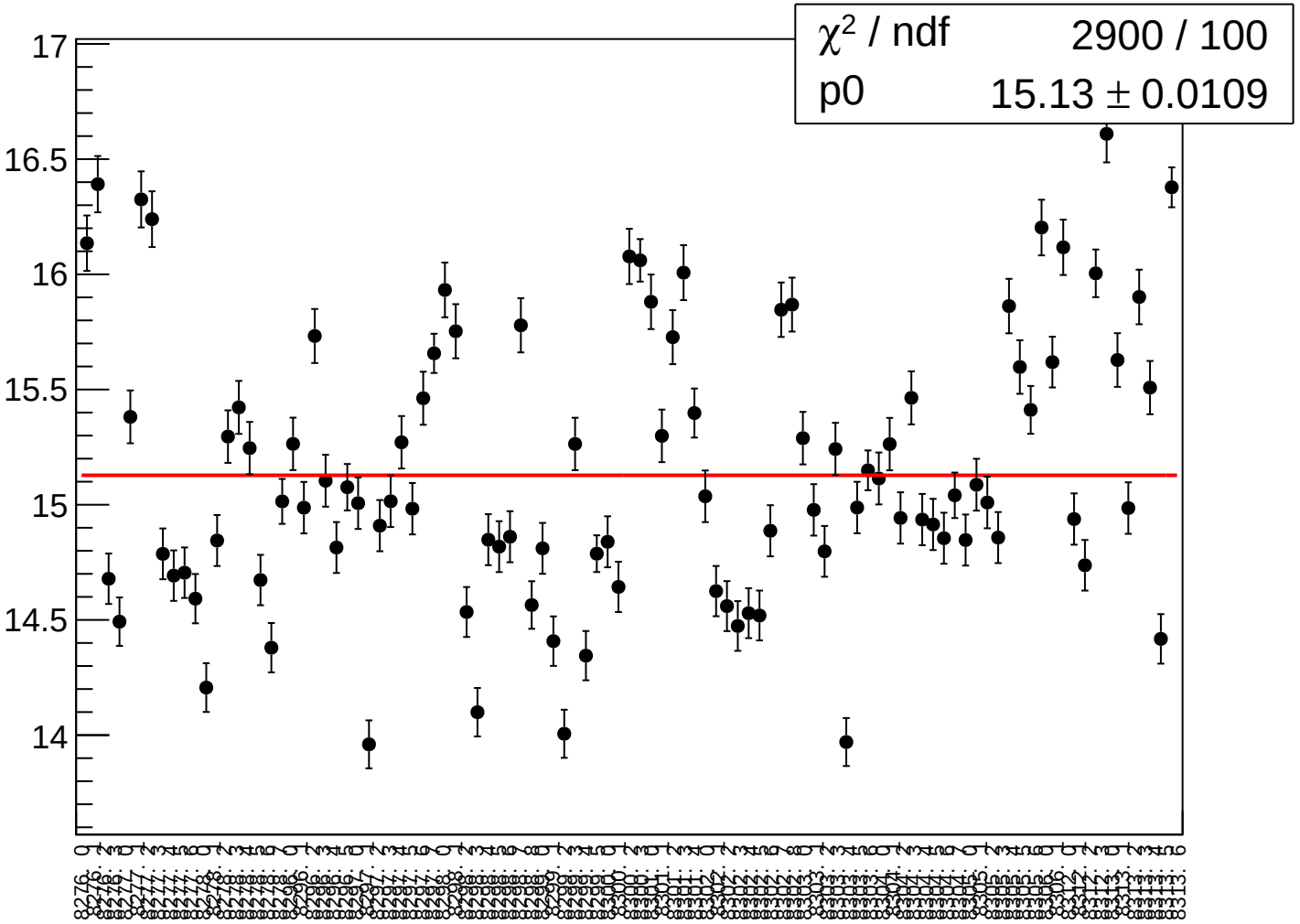

pull1D
Entries 101
Mean 0.002049
Std Dev 1.027
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

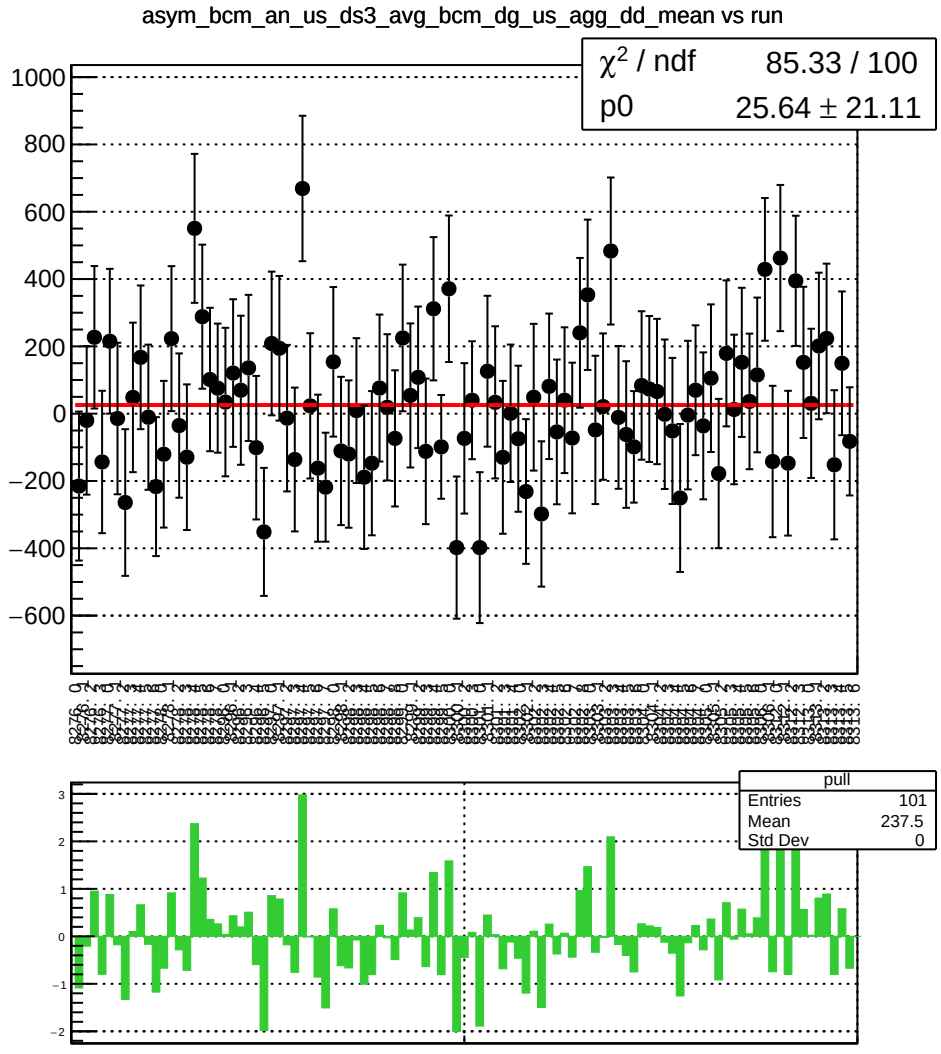

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2777 / 100
p0 15.22 ± 0.01097
17
16.5
16
15.5
15
14.5
14

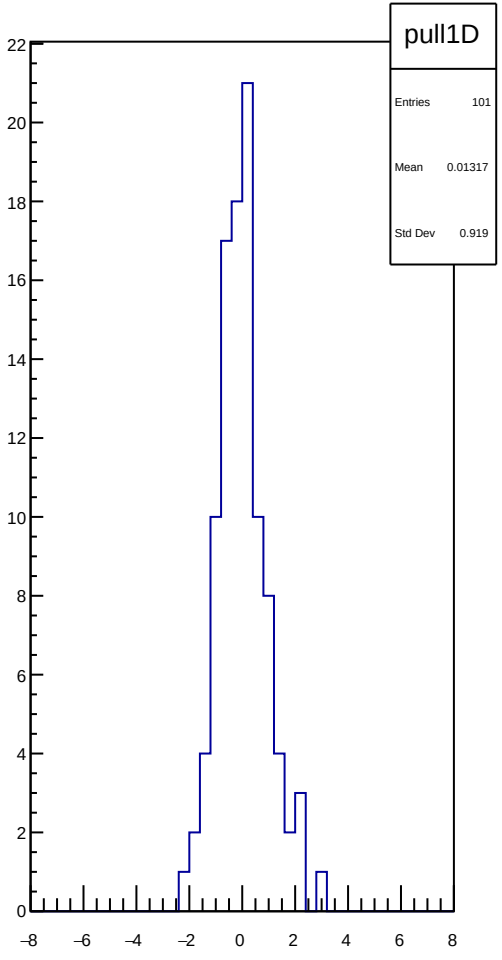

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 88.39 / 100
p0 25.63 ± 21.17
pull
Entries 101
Mean 249.5
Std Dev 0
pull1D
Entries 101
Mean 0.01342
Std Dev 0.9354

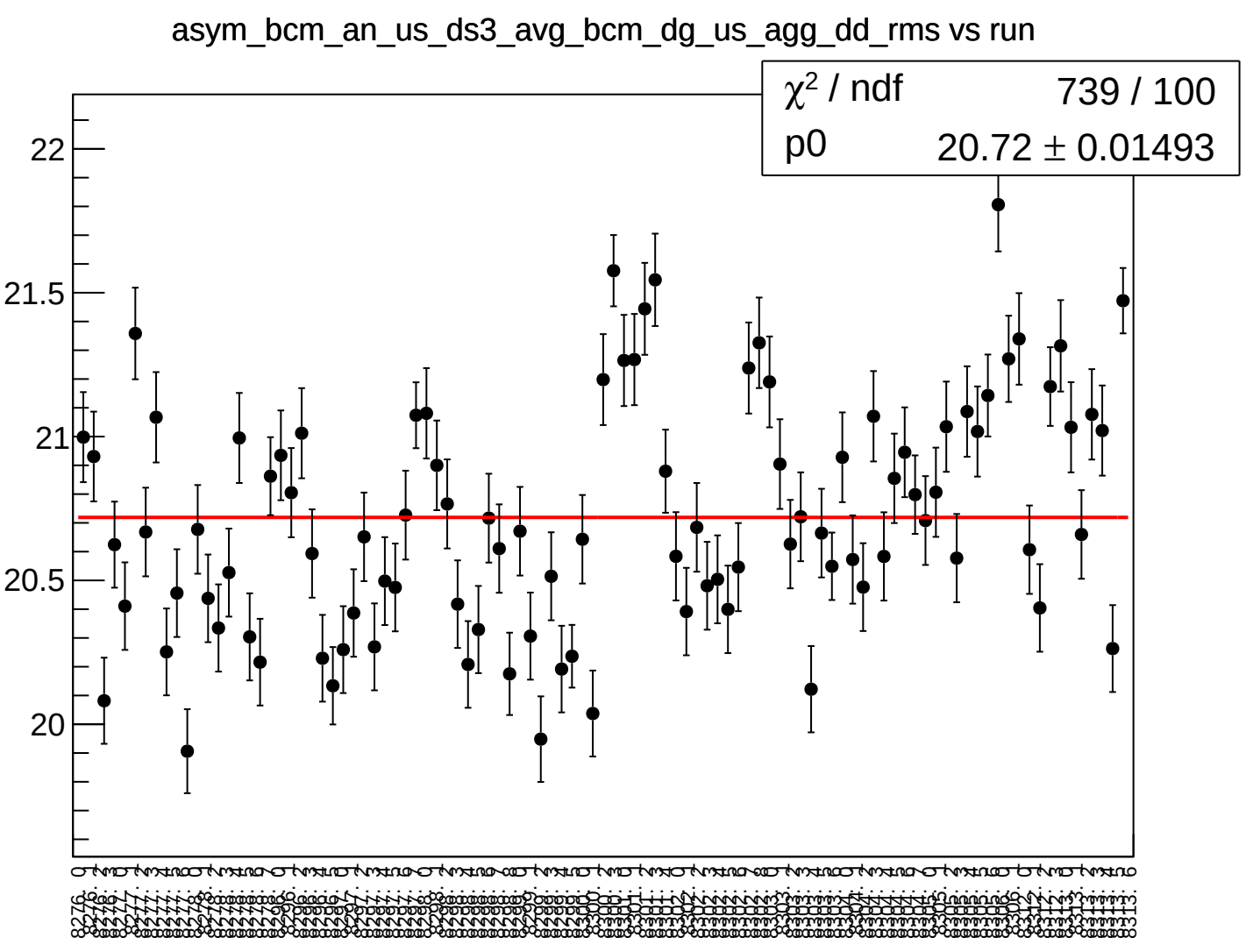

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 709.5 / 100
p0 20.78 ± 0.01497
22
21.5
21
20.5
20

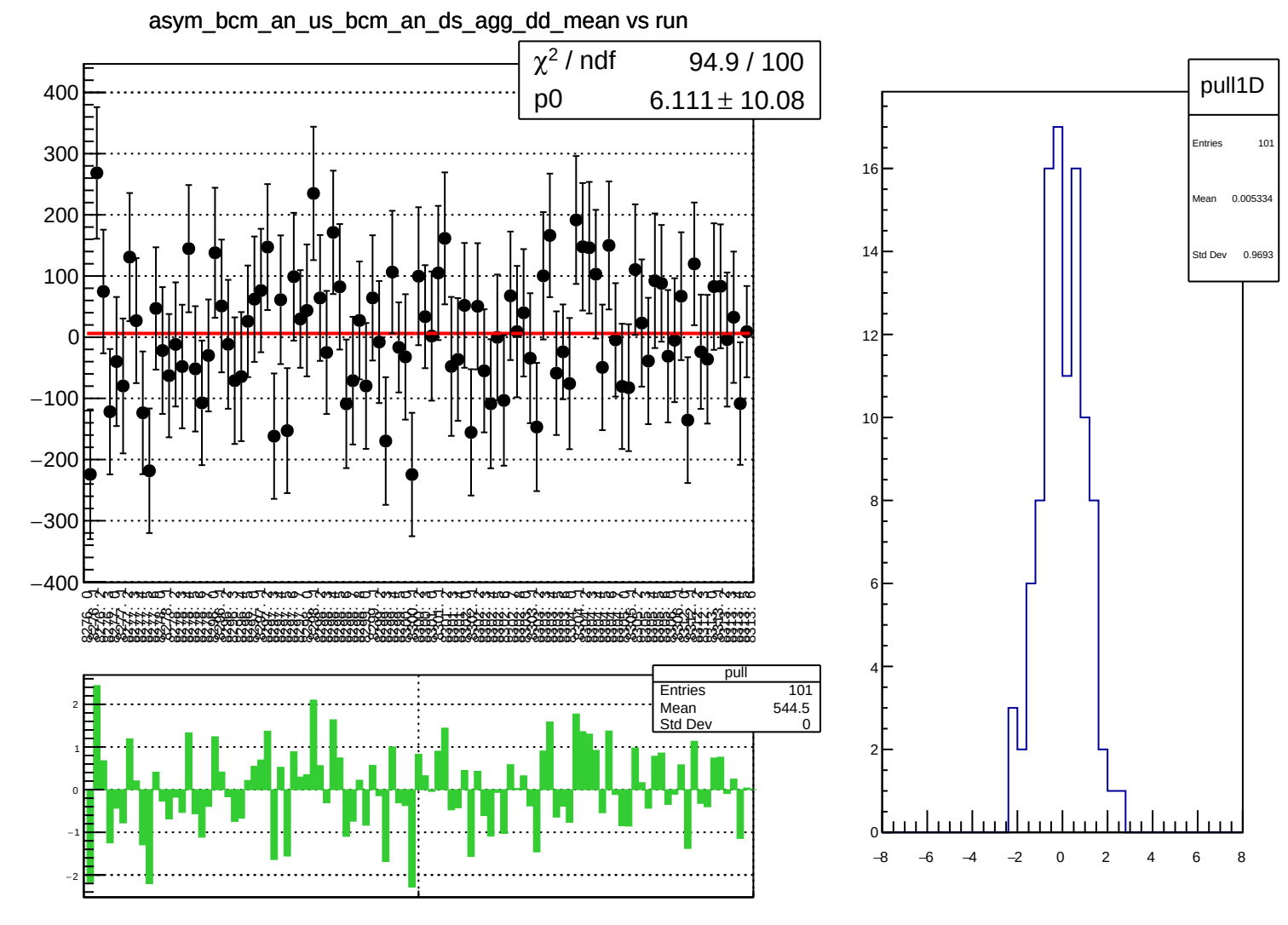

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 106.4 / 100
p0 −6.326 ± 15.42
600
400
200
0
−200
−400
−600
pull
Entries 101
Mean 2272
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.001747
Std Dev 1.027
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

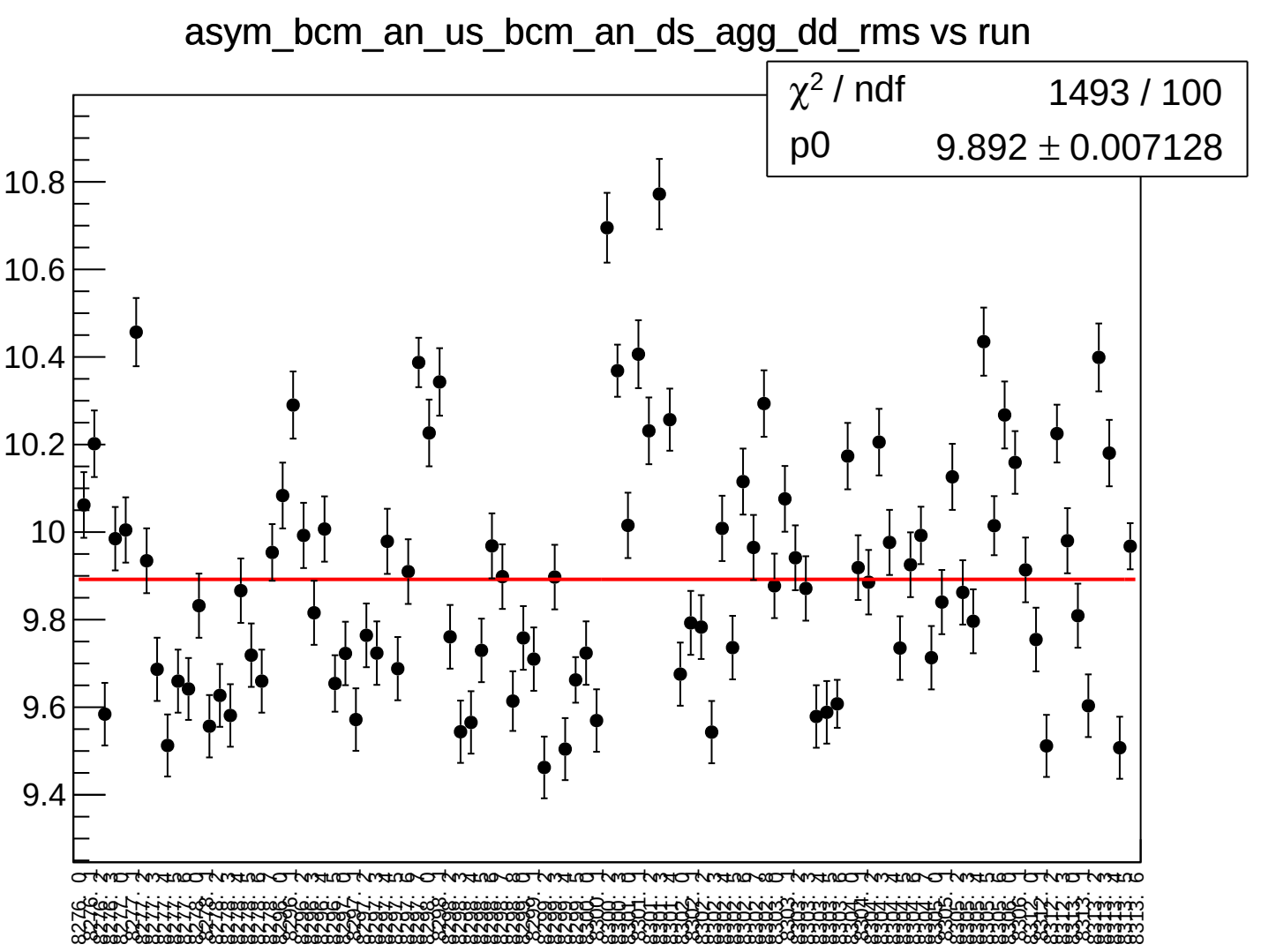

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2900 / 100
p0 15.13 ± 0.0109
17
16.5
16
15.5
15
14.5
14

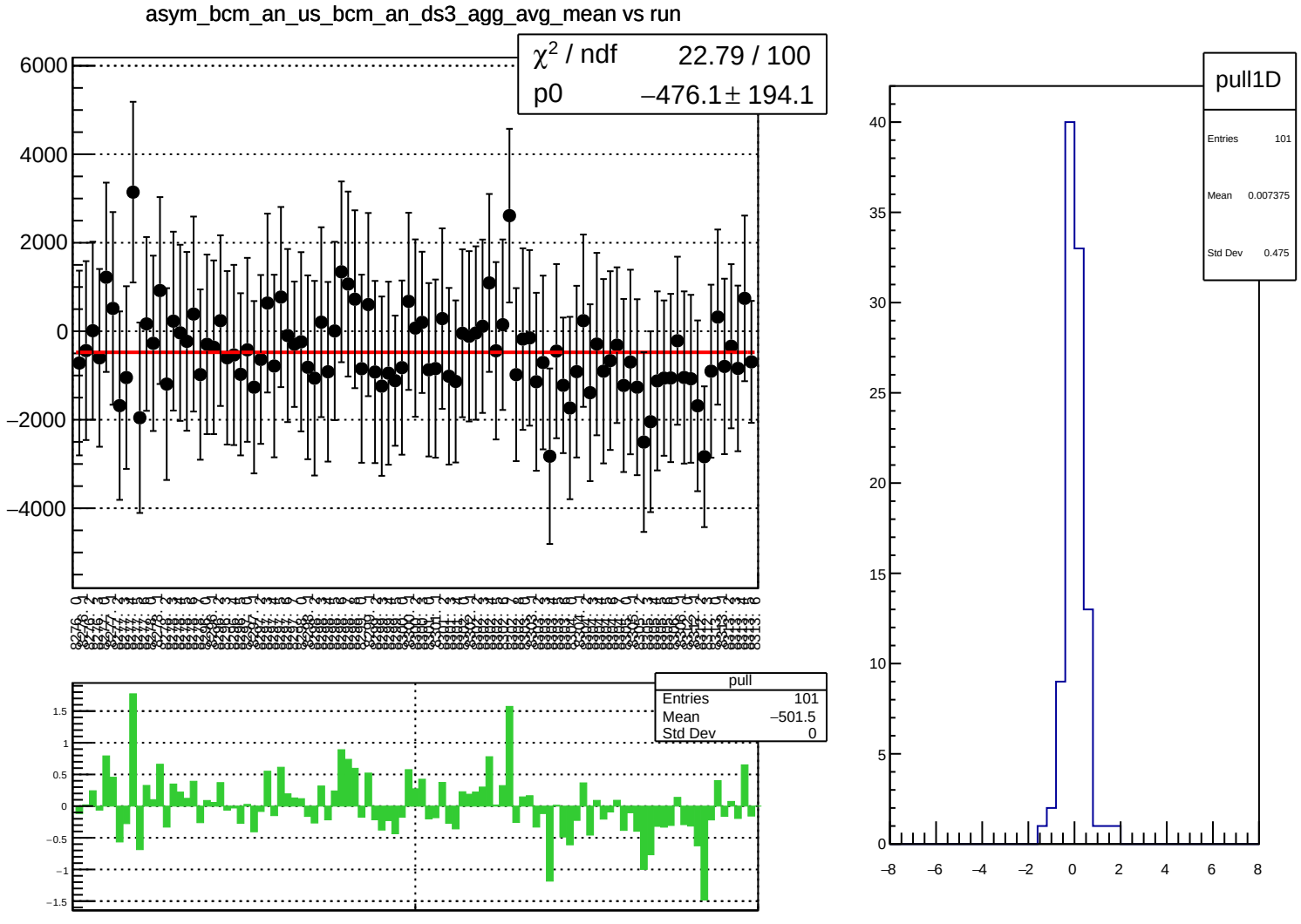

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 85.33 / 100
p0 25.64 ± 21.11
pull
Entries 101
Mean 237.5
Std Dev 0

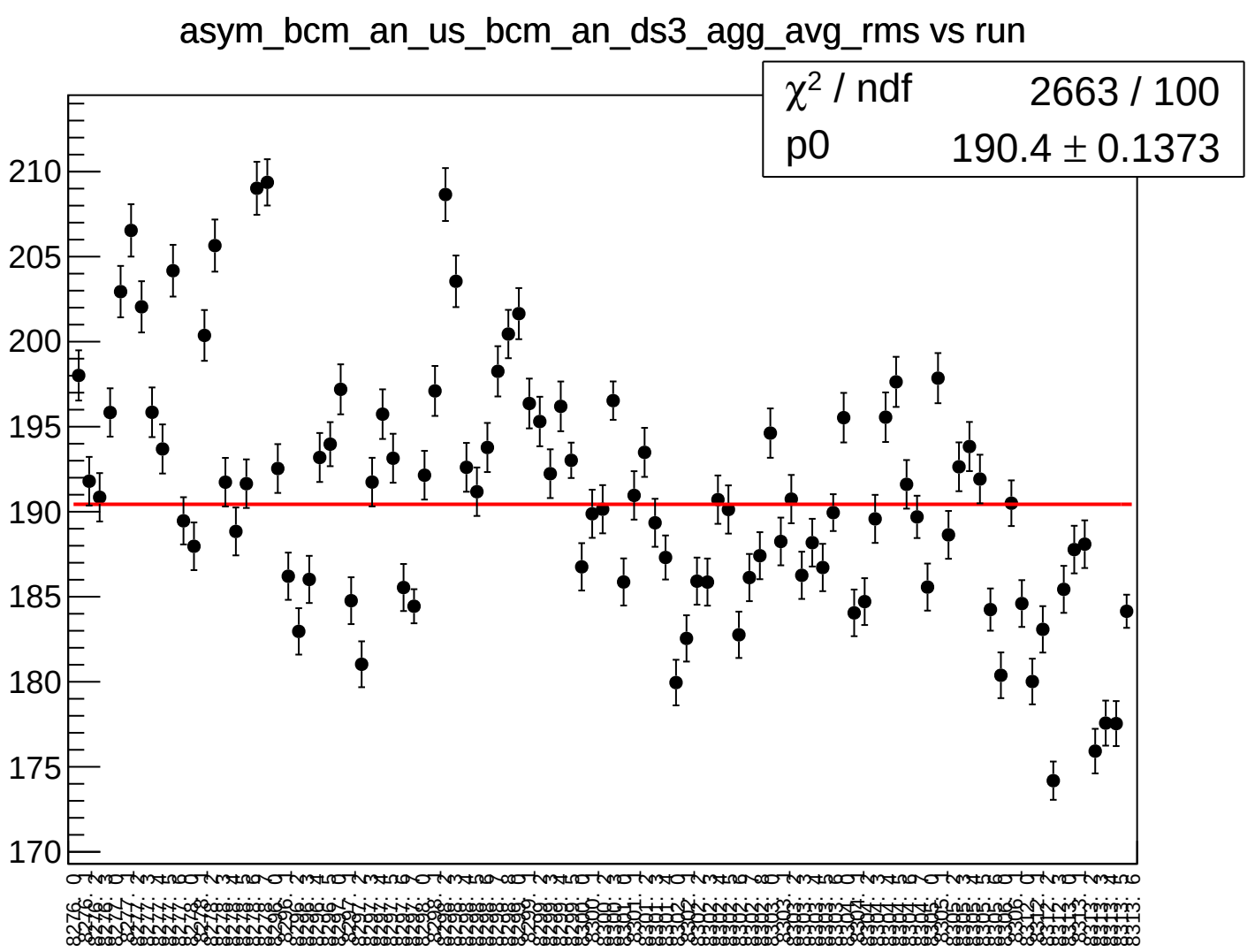

pull1D
Entries 101
Mean 0.01317
Std Dev 0.919

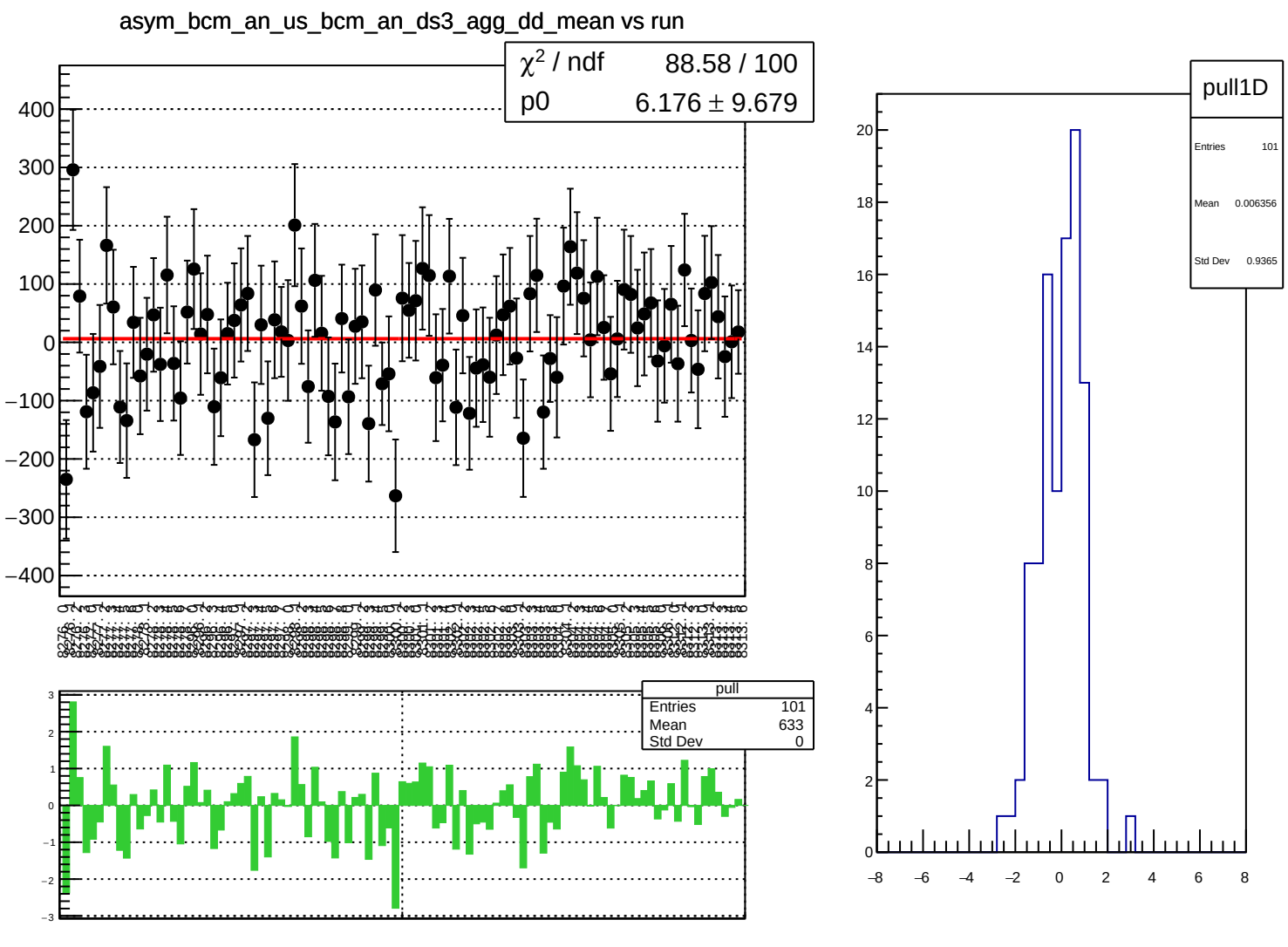

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 739 / 100
p0 20.72 ± 0.01493
22
21.5
21
20.5
20

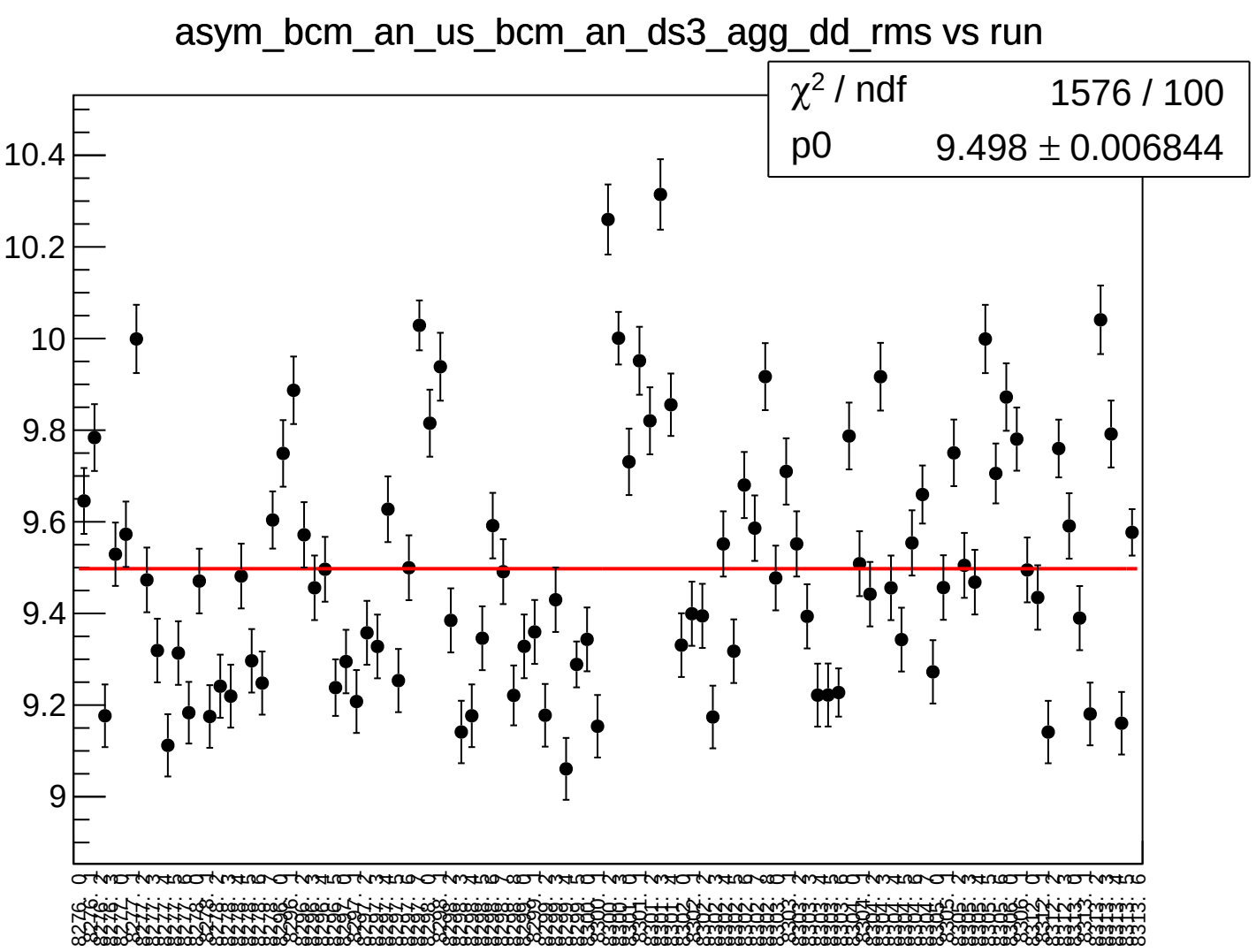

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 94.9 / 100
p0 6.111 ± 10.08
pull
Entries 101
Mean 544.5
Std Dev 0
pull1D
Entries 101
Mean 0.005334
Std Dev 0.9693

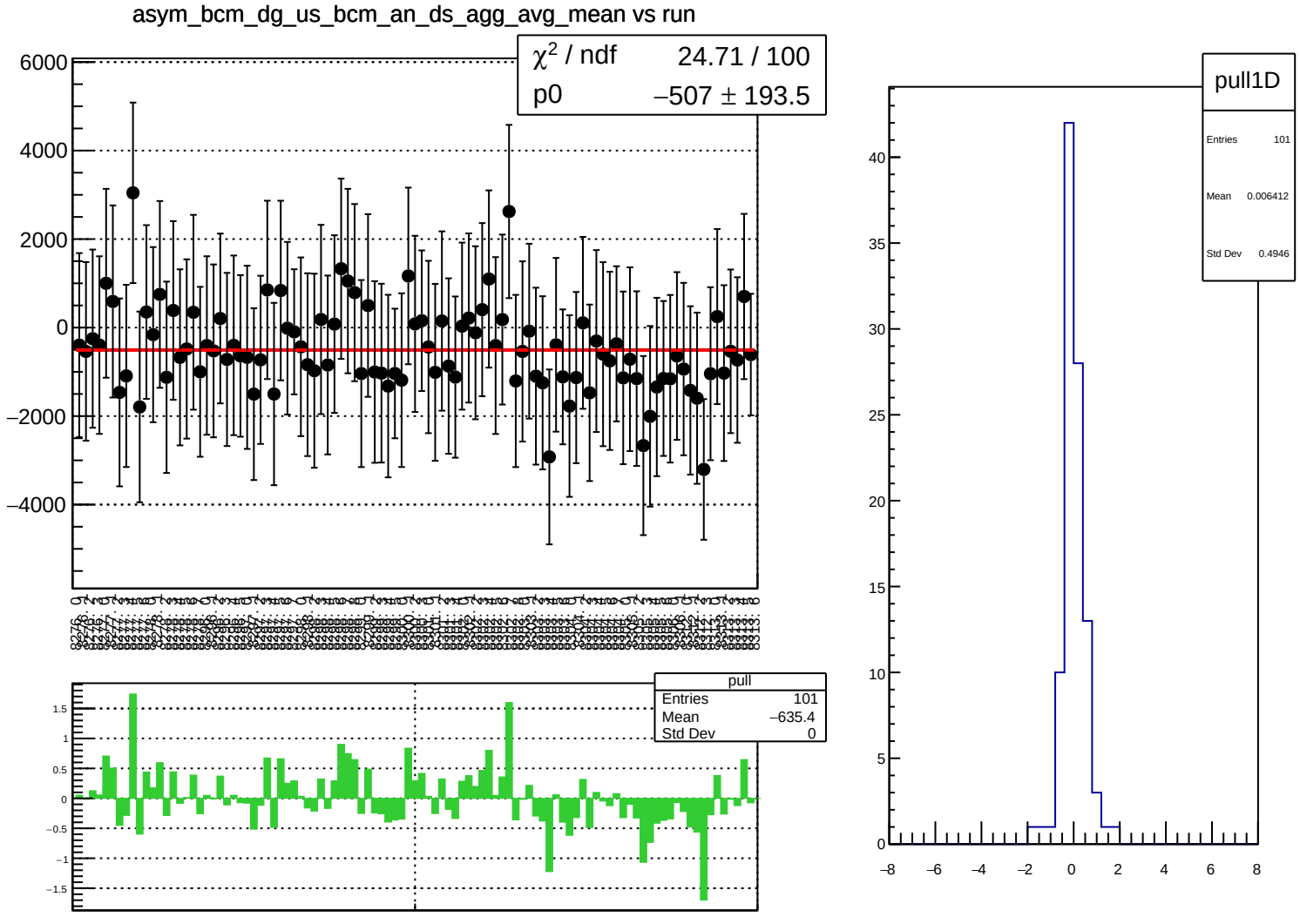

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1493 / 100
p0 9.892 ± 0.007128
10.8
10.6
10.4
10.2
10
9.8
9.6
9.4

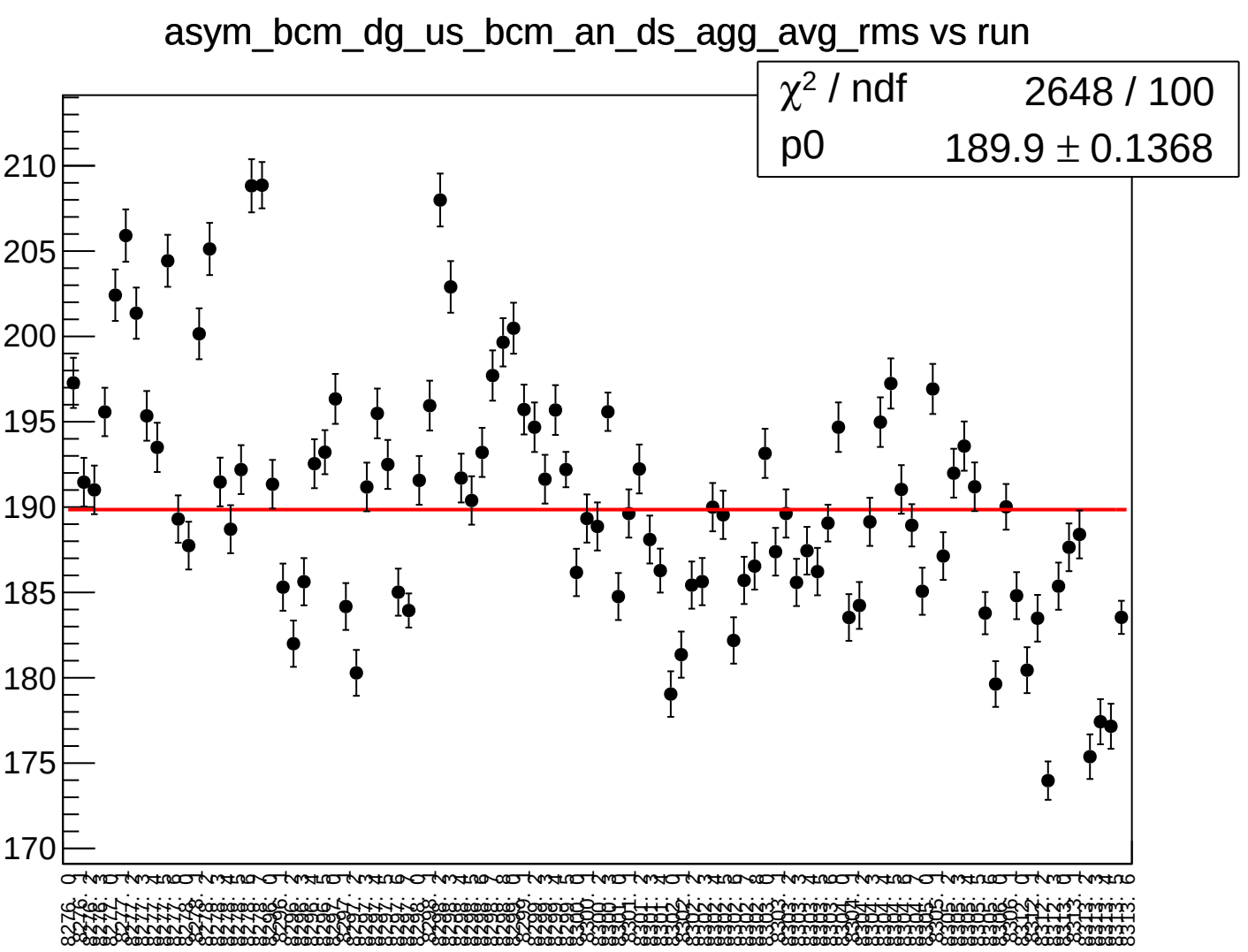

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 22.79 / 100
p0 −476.1 ± 194.1
6000
4000
2000
0
−2000
−4000
pull
Entries 101
Mean −501.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 101
Mean 0.007375
Std Dev 0.475
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

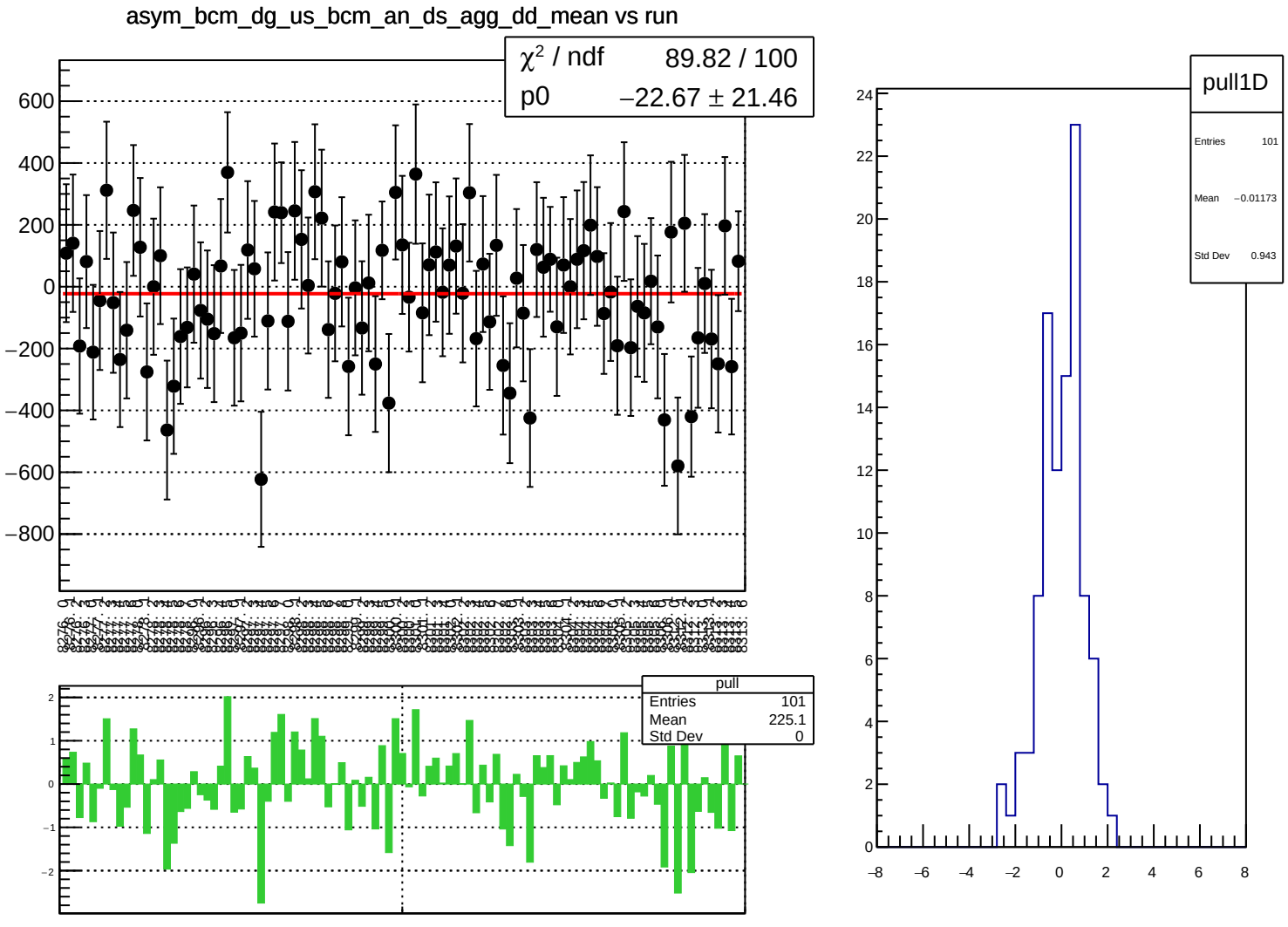

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 2663 / 100
p0 190.4 ± 0.1373
210
205
200
195
190
185
180
175
170

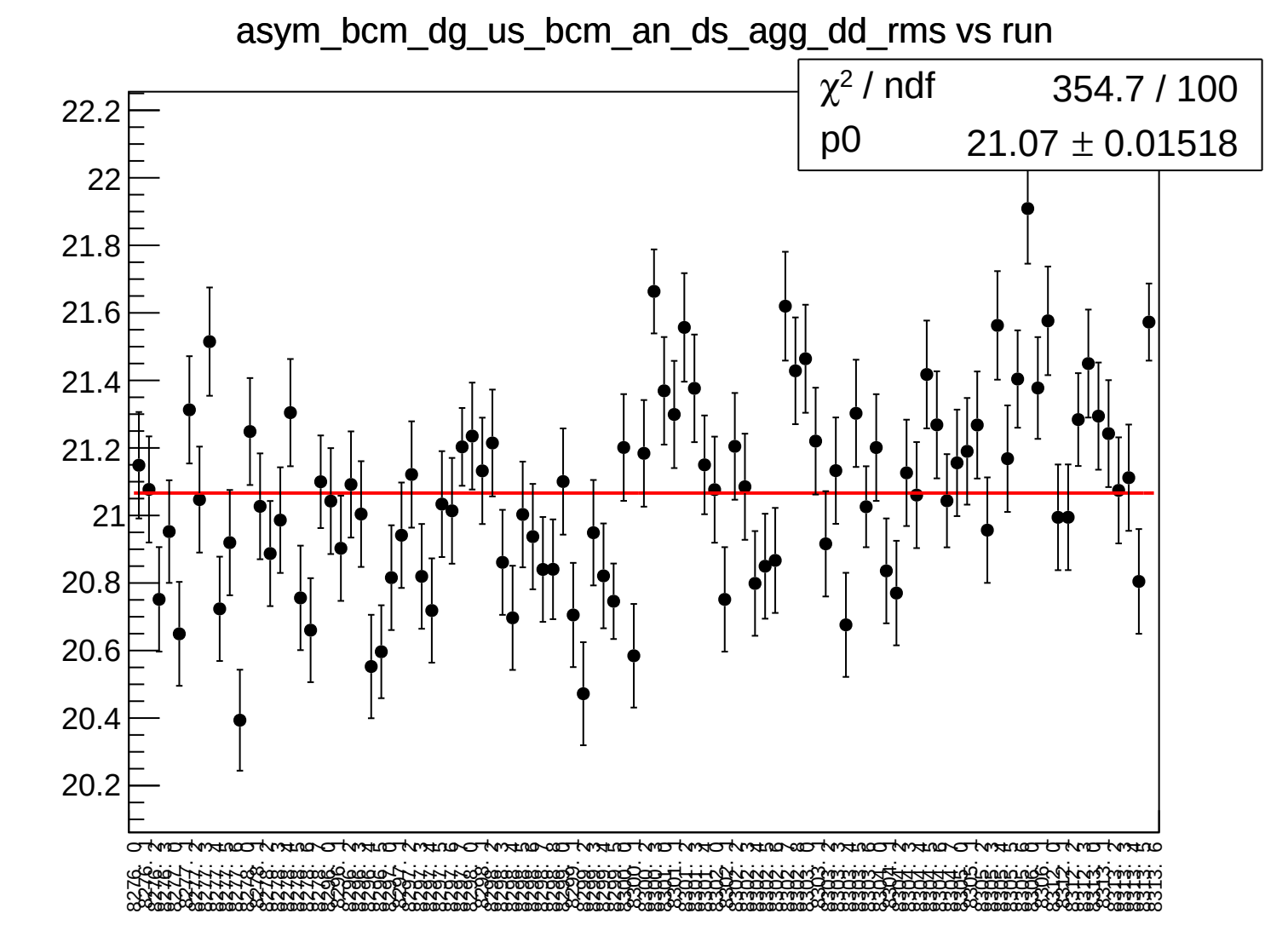

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 88.58 / 100
p0 6.176 ± 9.679
pull
Entries 101
Mean 633
Std Dev 0
pull1D
Entries 101
Mean 0.006356
Std Dev 0.9365

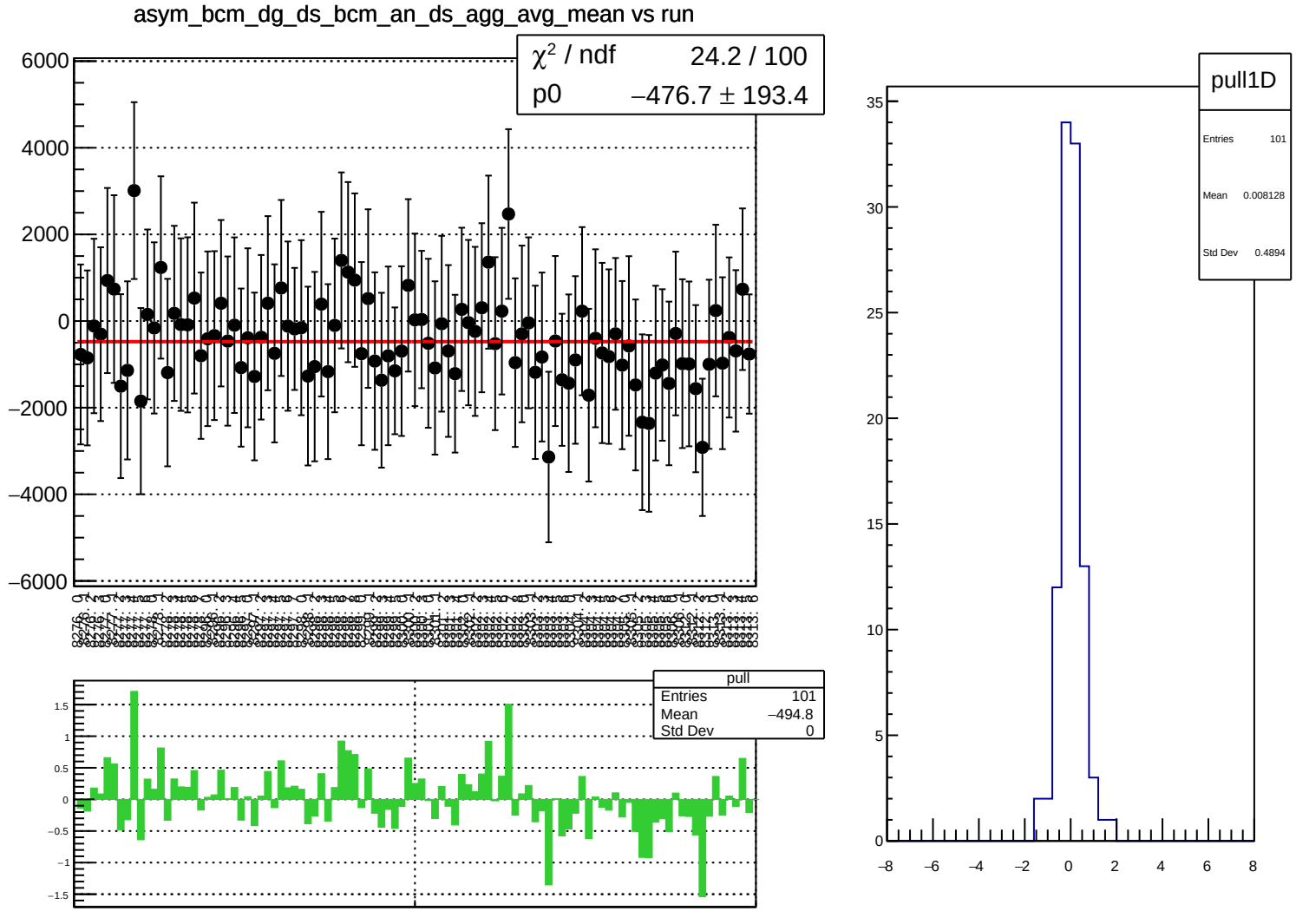

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 1576 / 100
p0 9.498 ± 0.006844
10.4
10.2
10
9.8
9.6
9.4
9.2
9

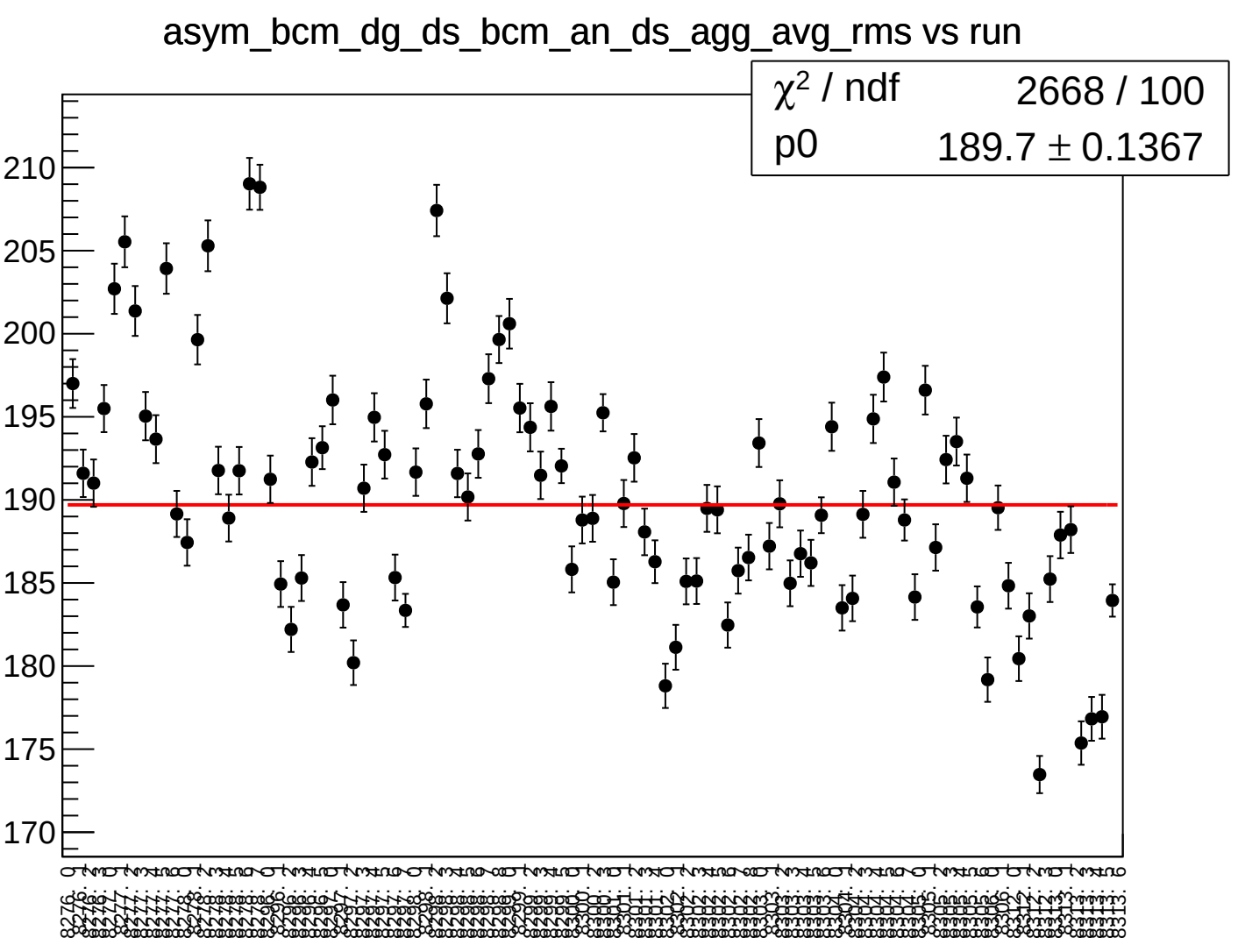

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 24.71 / 100
p0 −507 ± 193.5
6000
4000
2000
0
−2000
−4000
pull
Entries 101
Mean −635.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 101
Mean 0.006412
Std Dev 0.4946
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

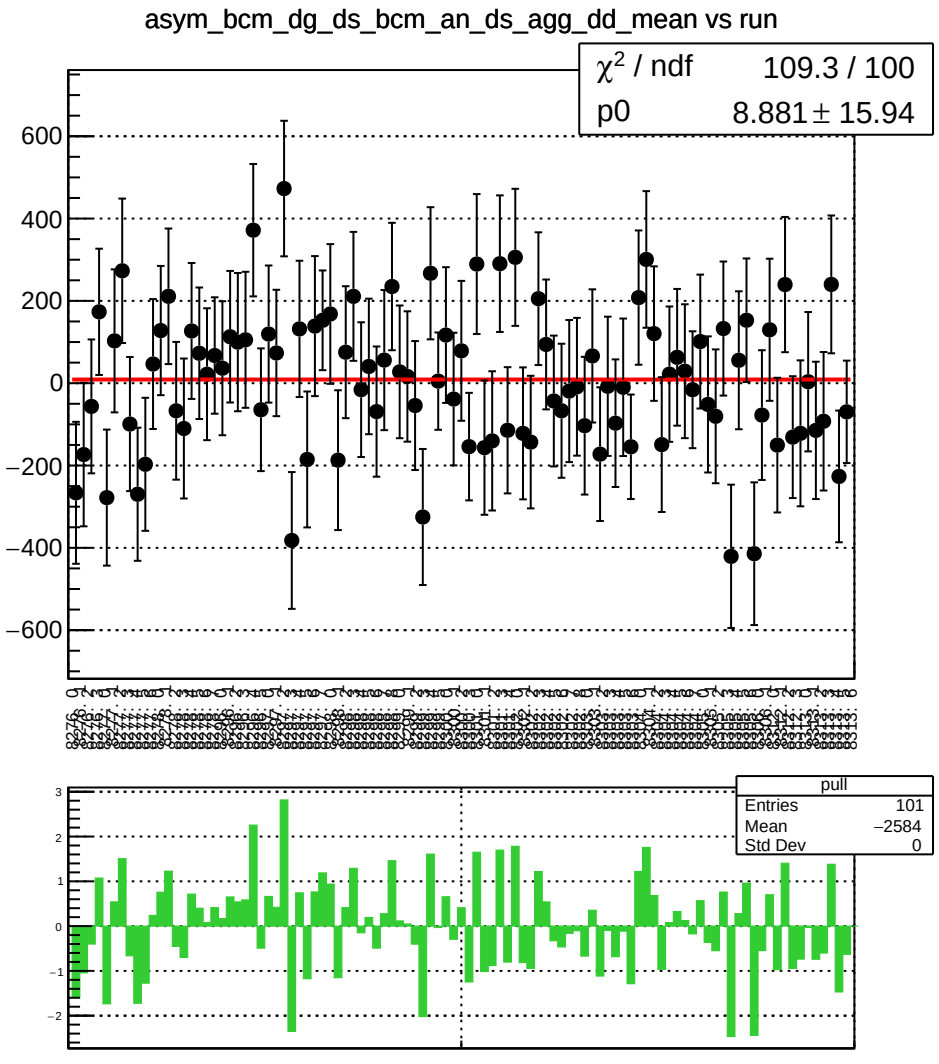

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2648 / 100
p0 189.9 ± 0.1368
210
205
200
195
190
185
180
175
170

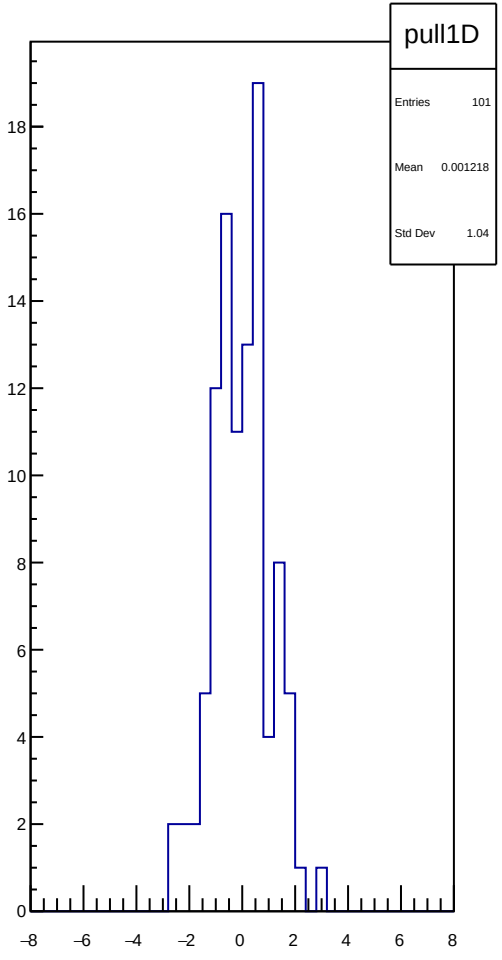

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 89.82 / 100
p0 −22.67 ± 21.46
600
400
200
0
−200
−400
−600
−800
pull
Entries 101
Mean 225.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.01173
Std Dev 0.943
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

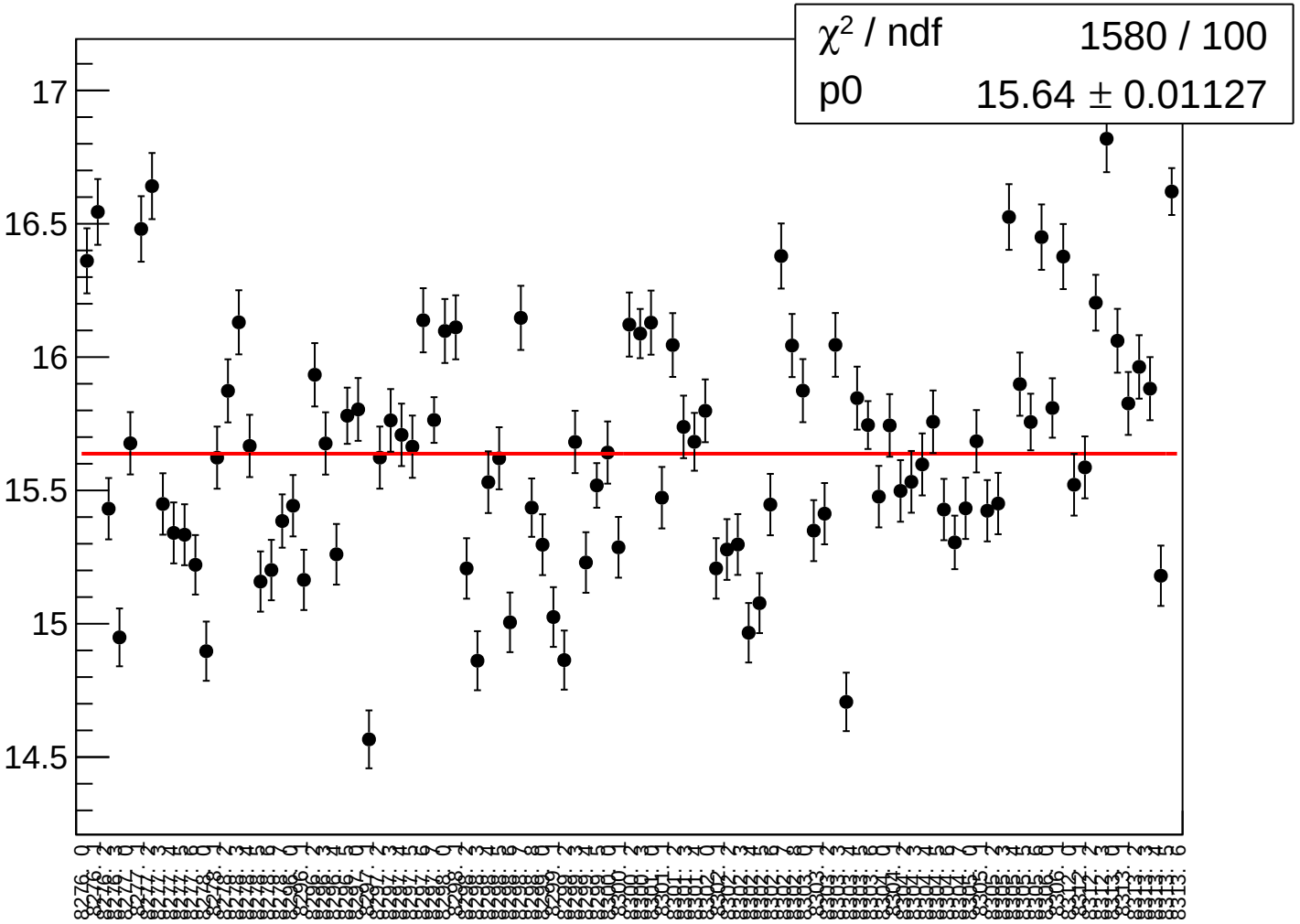

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 354.7 / 100
p0 21.07 ± 0.01518
22.2
22
21.8
21.6
21.4
21.2
21
20.8
20.6
20.4
20.2

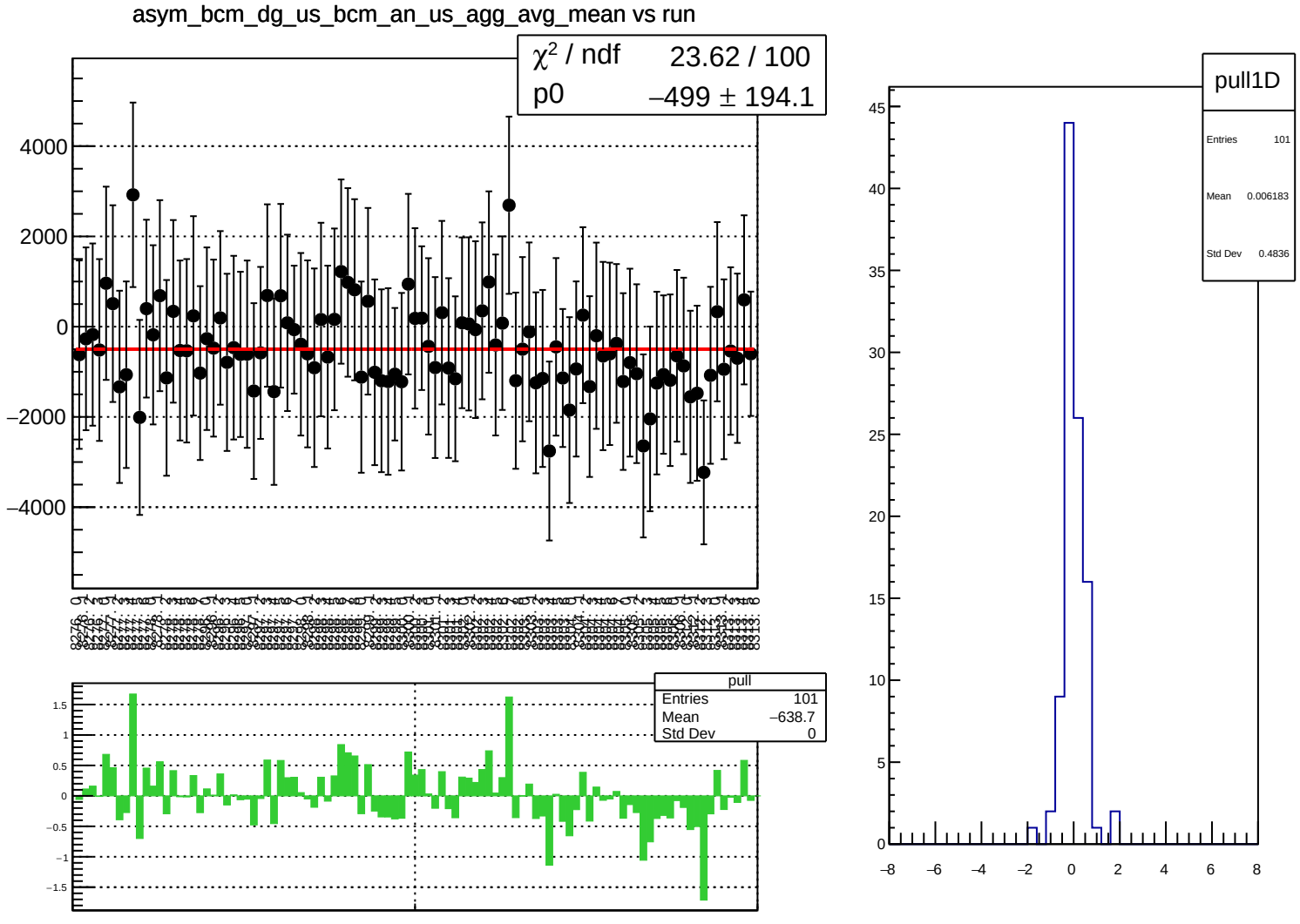

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 24.2 / 100
p0 −476.7 ± 193.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 101
Mean −494.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 101
Mean 0.008128
Std Dev 0.4894
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

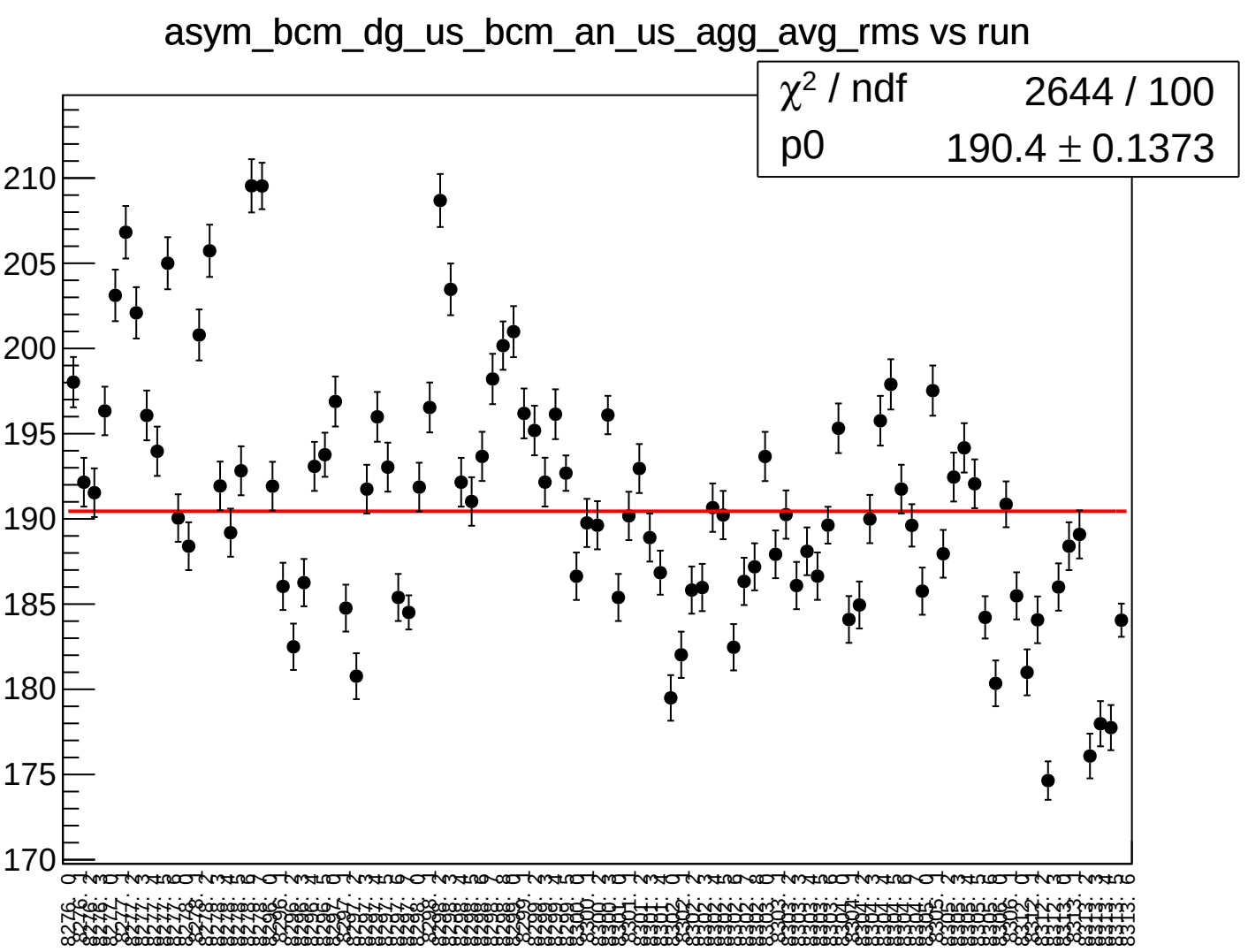

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2668 / 100
p0 189.7 ± 0.1367
210
205
200
195
190
185
180
175
170

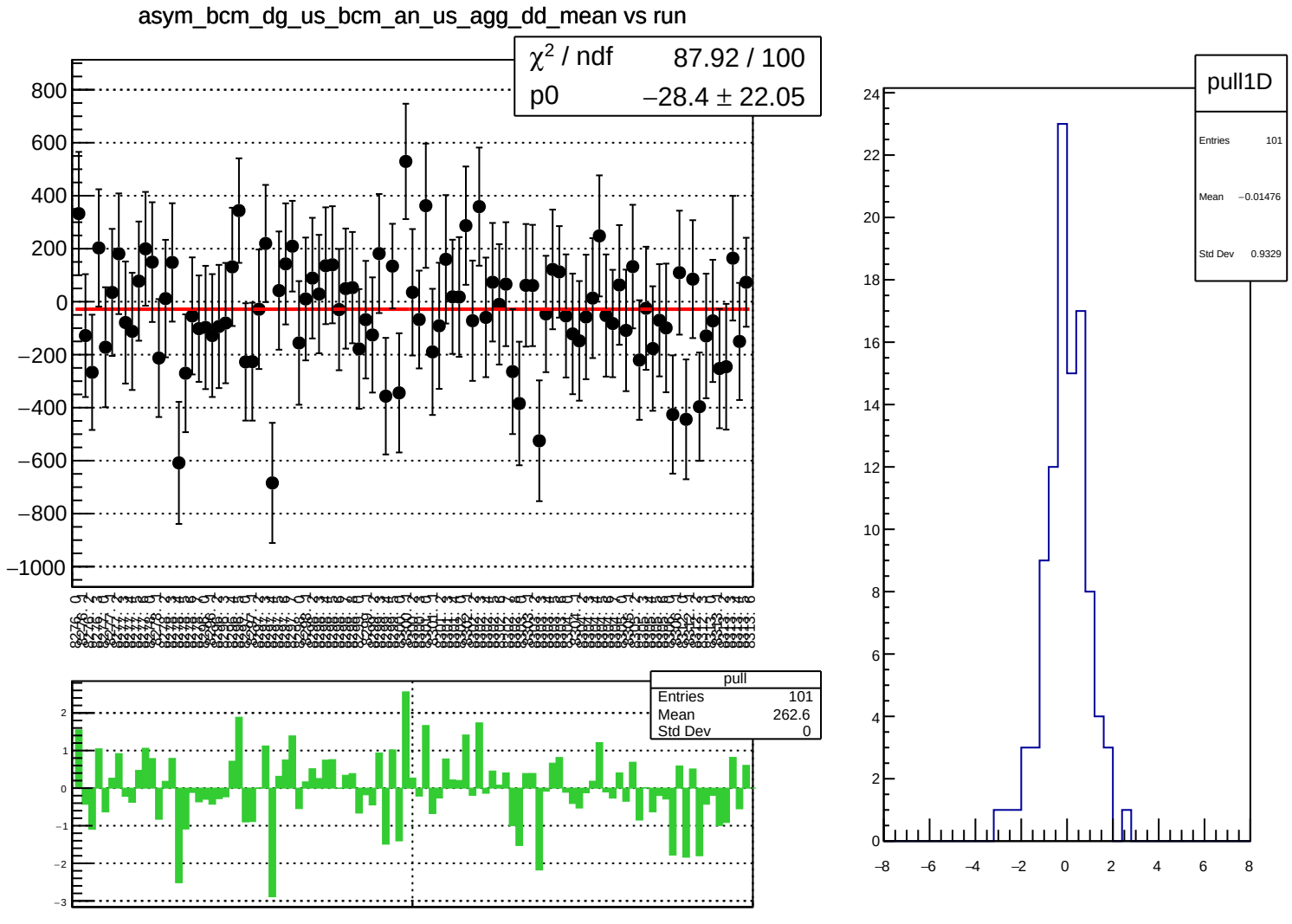

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 109.3 / 100
p0 8.881 ± 15.94
600
400
200
0
−200
−400
−600
pull
Entries 101
Mean −2584
Std Dev 0
3
2
1
0
−1
−2

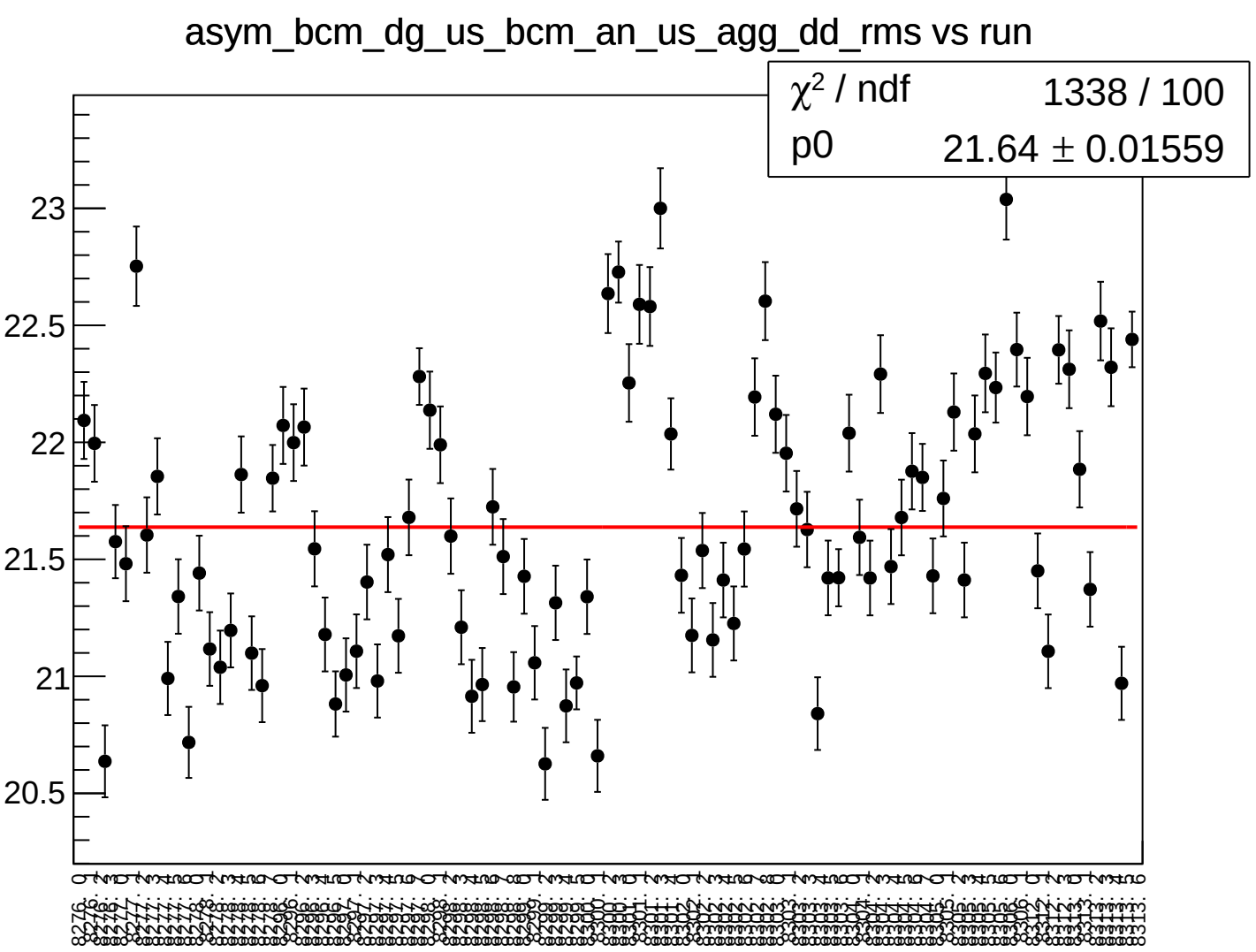

pull1D
Entries 101
Mean 0.001218
Std Dev 1.04
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

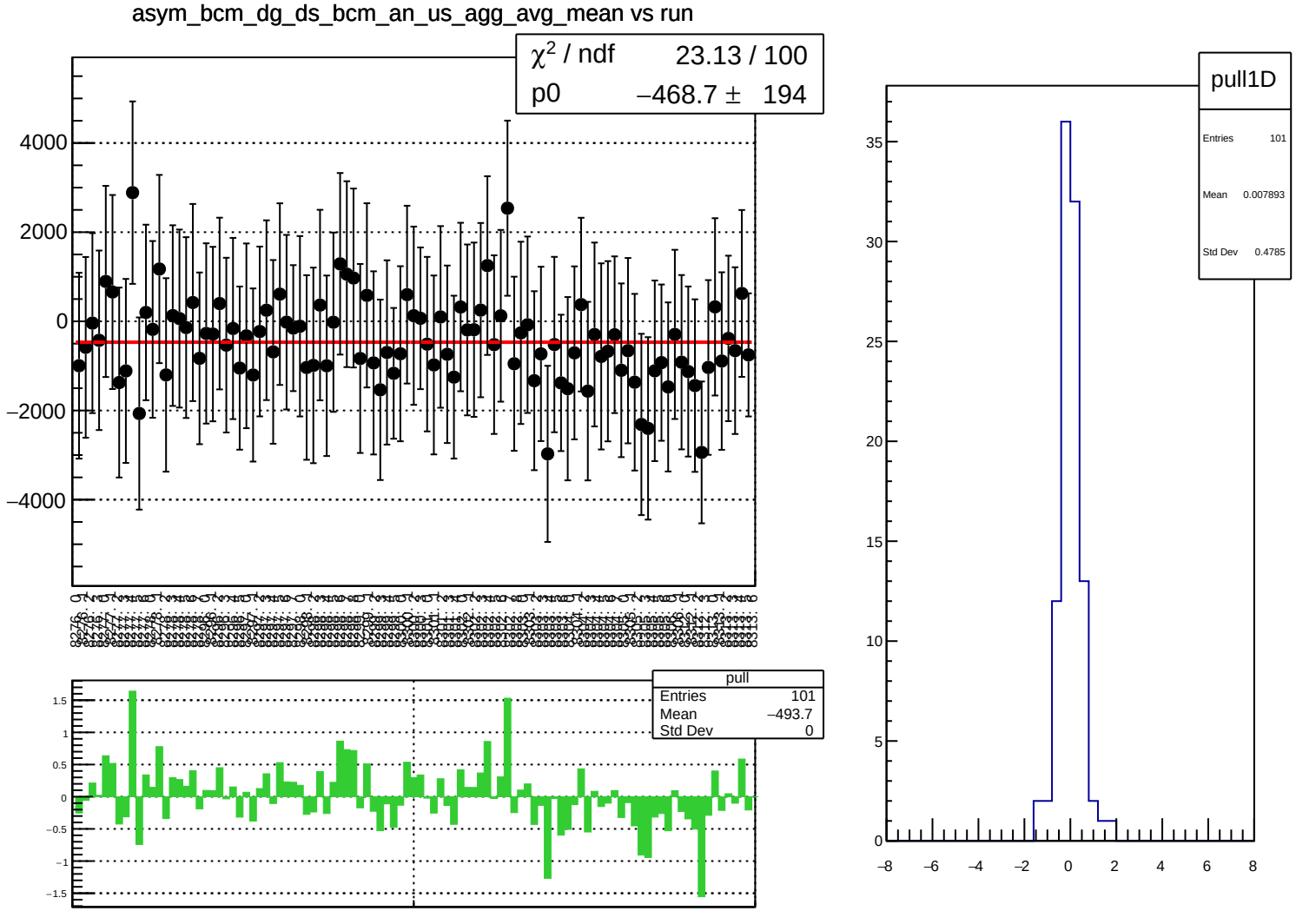

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1580 / 100
p0 15.64 ± 0.01127
17
16.5
16
15.5
15
14.5

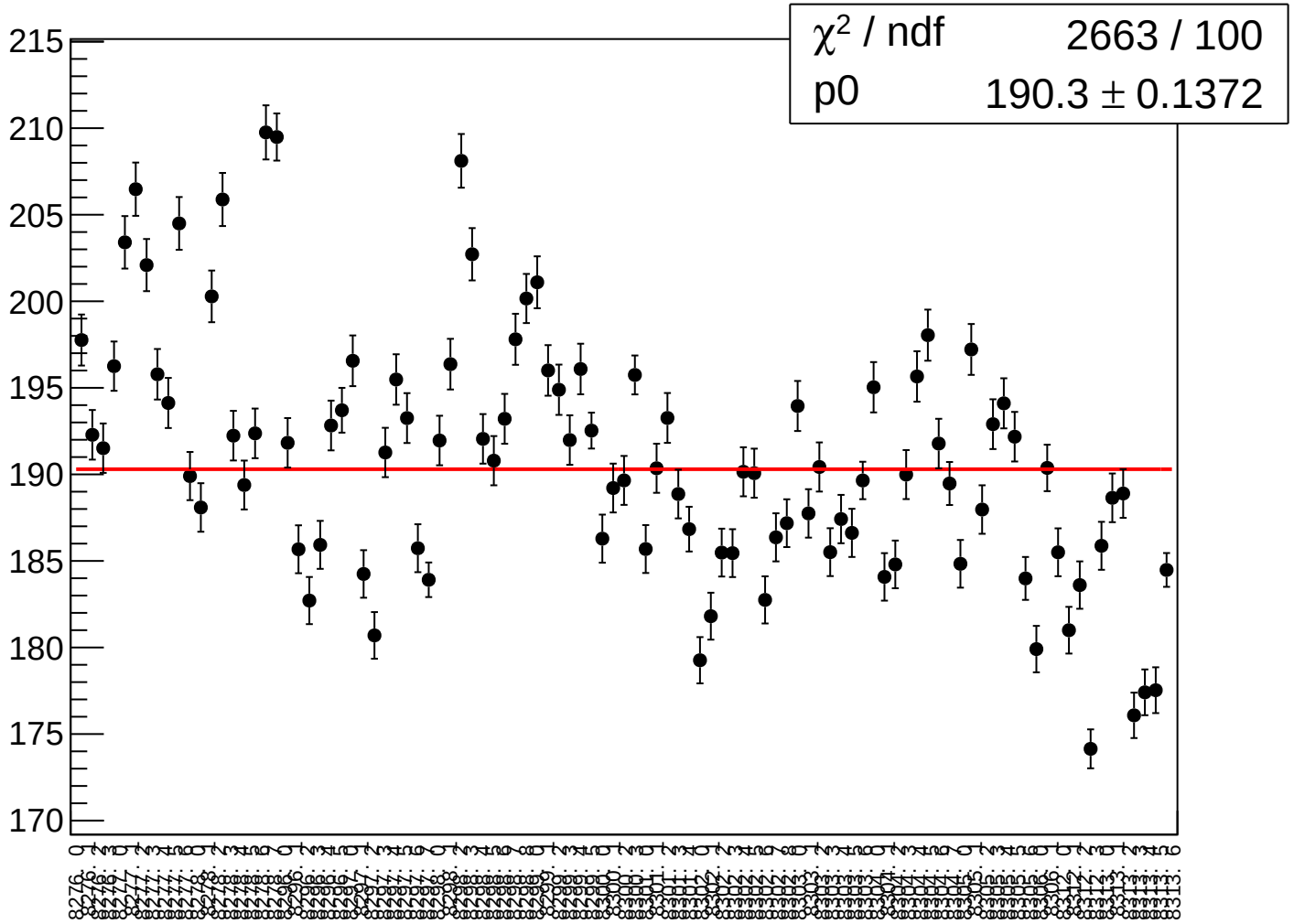

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 23.62 / 100
p0 −499 ± 194.1
4000
2000
0
−2000
−4000
pull
Entries 101
Mean −638.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 101
Mean 0.006183
Std Dev 0.4836
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

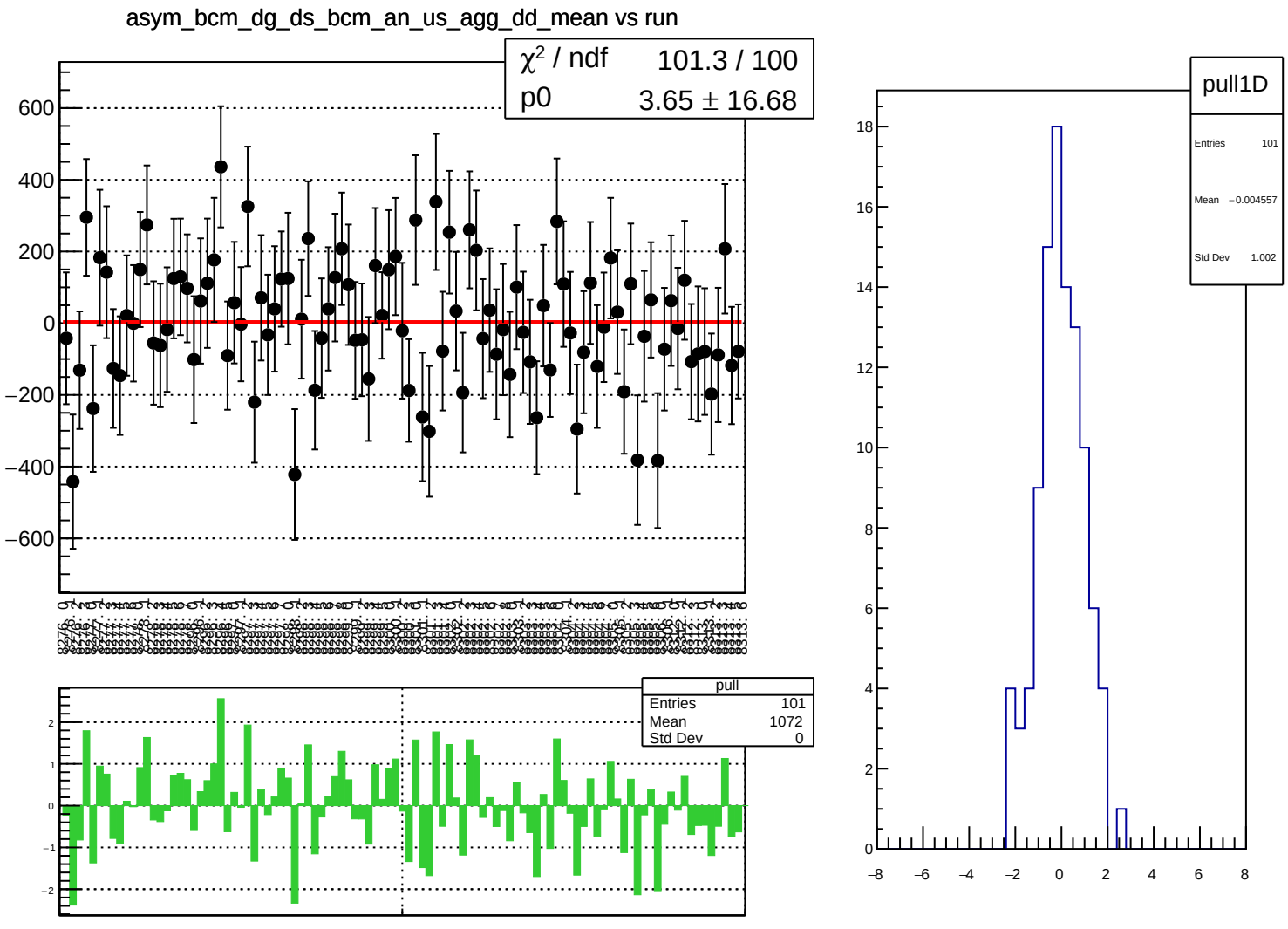

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2644 / 100
p0 190.4 ± 0.1373
210
205
200
195
190
185
180
175
170

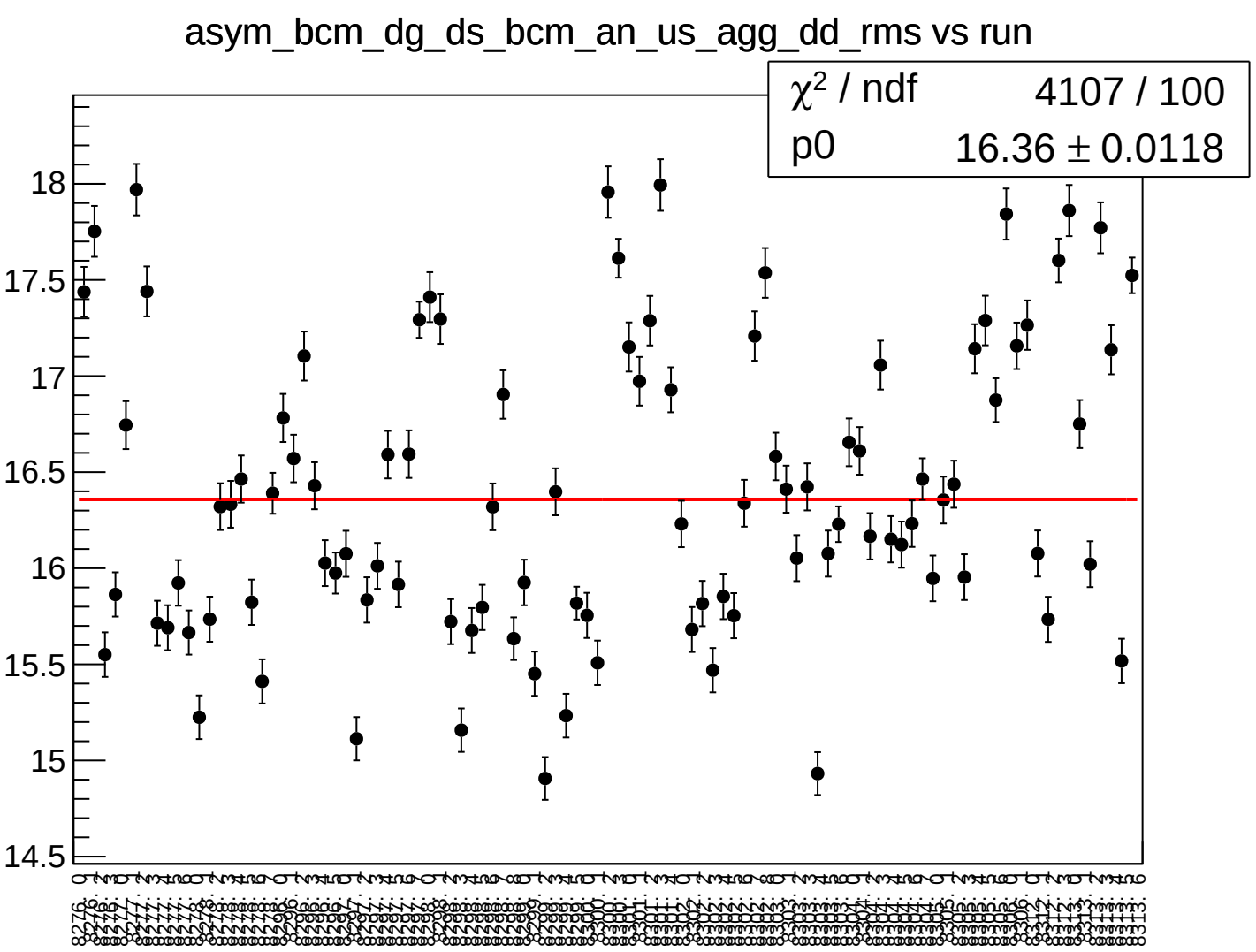

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 87.92 / 100
p0 −28.4 ± 22.05
pull
Entries 101
Mean 262.6
Std Dev 0
pull1D
Entries 101
Mean −0.01476
Std Dev 0.9329

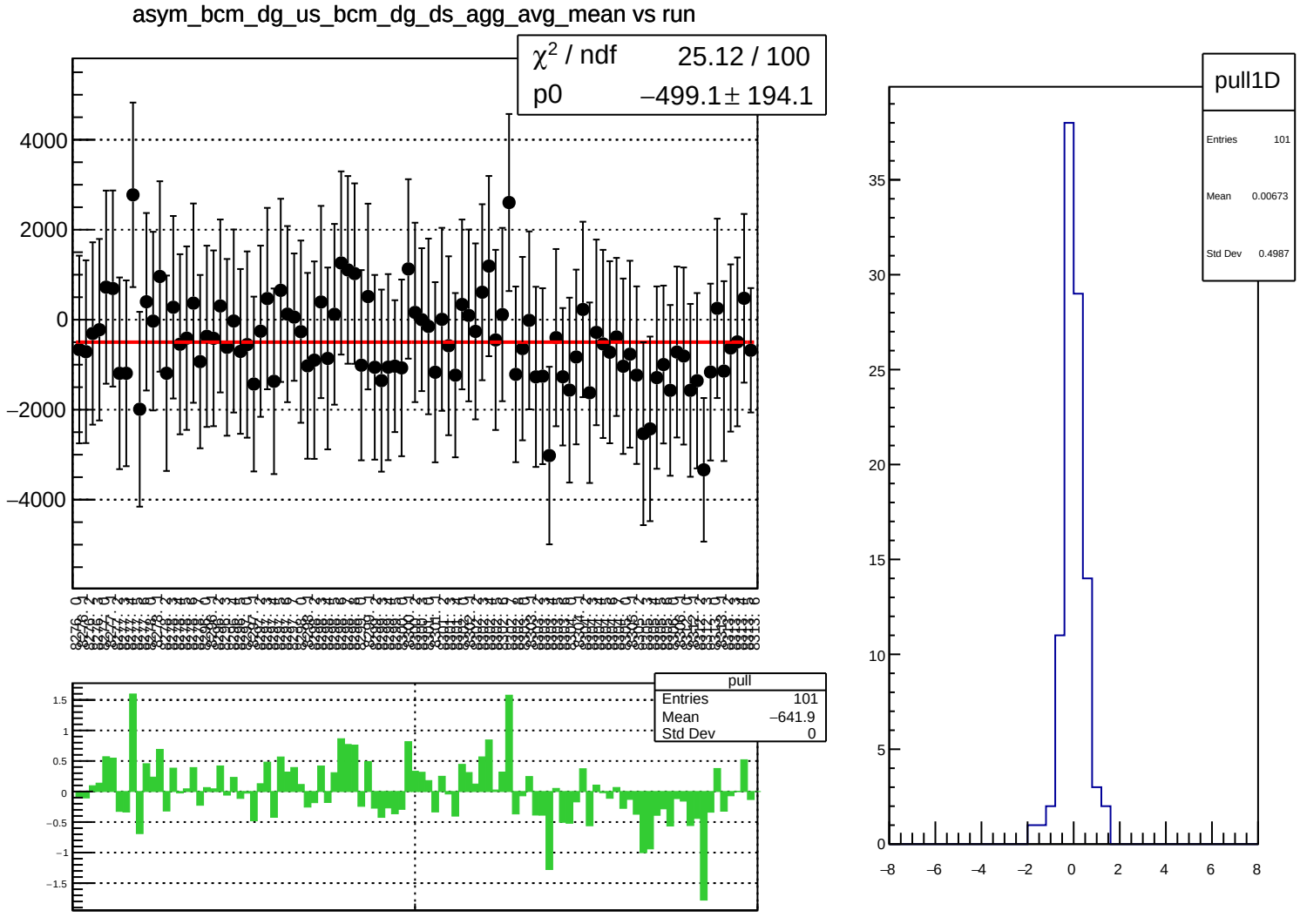

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1338 / 100
p0 21.64 ± 0.01559
23
22.5
22
21.5
21
20.5

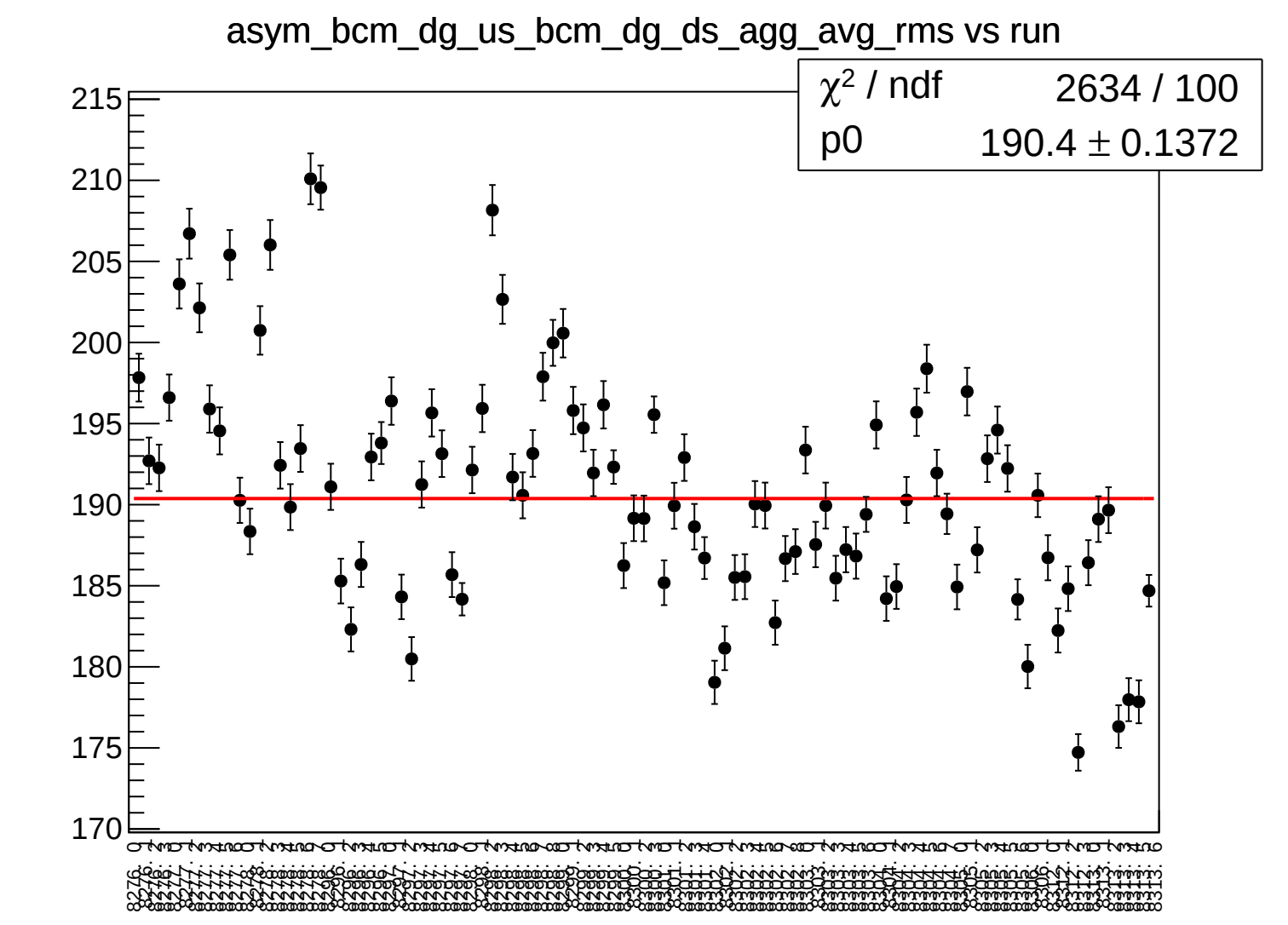

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 23.13 / 100
p0 −468.7 ± 194
4000
2000
0
−2000
−4000
pull
Entries 101
Mean −493.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 101
Mean 0.007893
Std Dev 0.4785
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

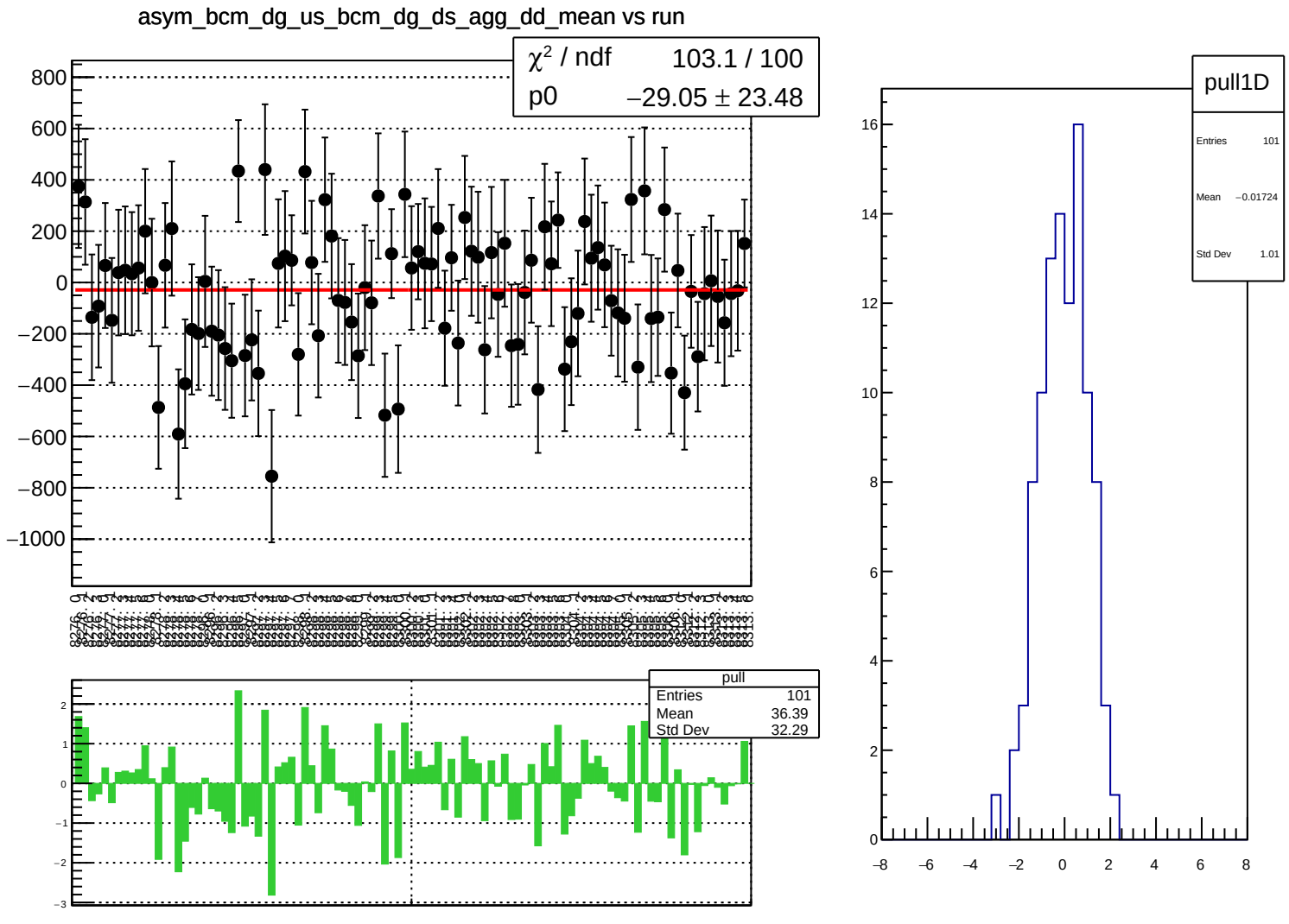

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2663 / 100
p0 190.3 ± 0.1372
215
210
205
200
195
190
185
180
175
170

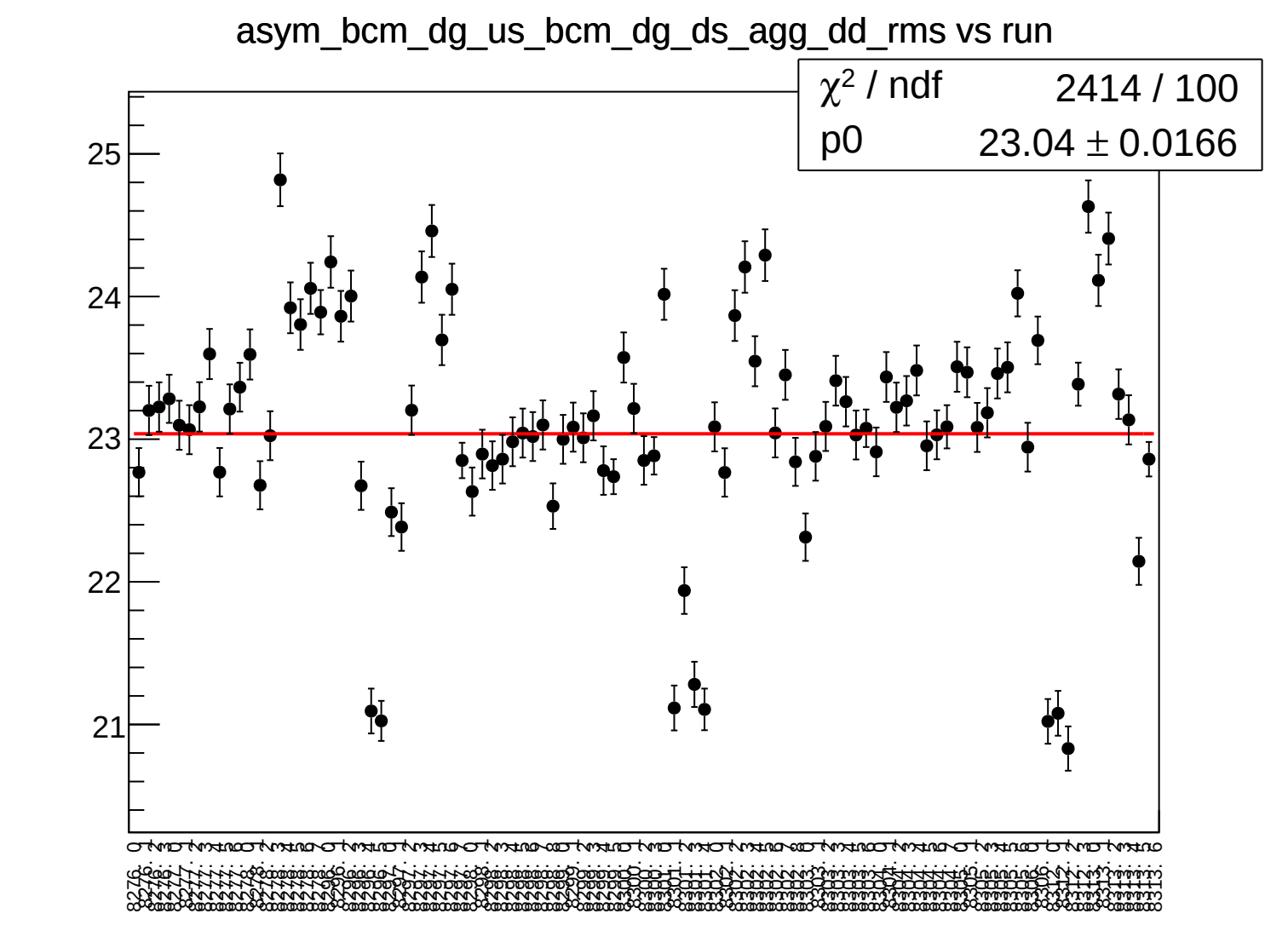

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 101.3 / 100
p0 3.65 ± 16.68
600
400
200
0
−200
−400
−600
pull
Entries 101
Mean 1072
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.004557
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

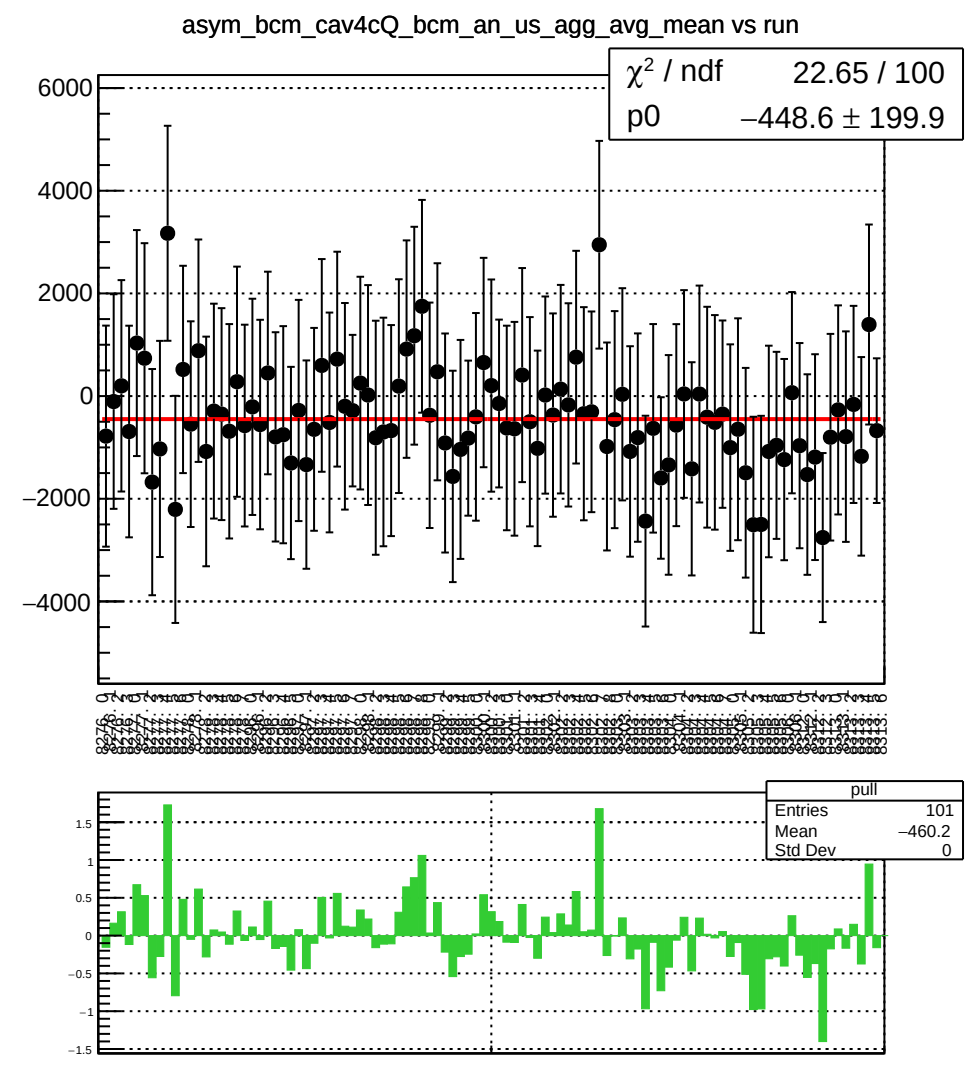

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 4107 / 100
p0 16.36 ± 0.0118
18
17.5
17
16.5
16
15.5
15
14.5

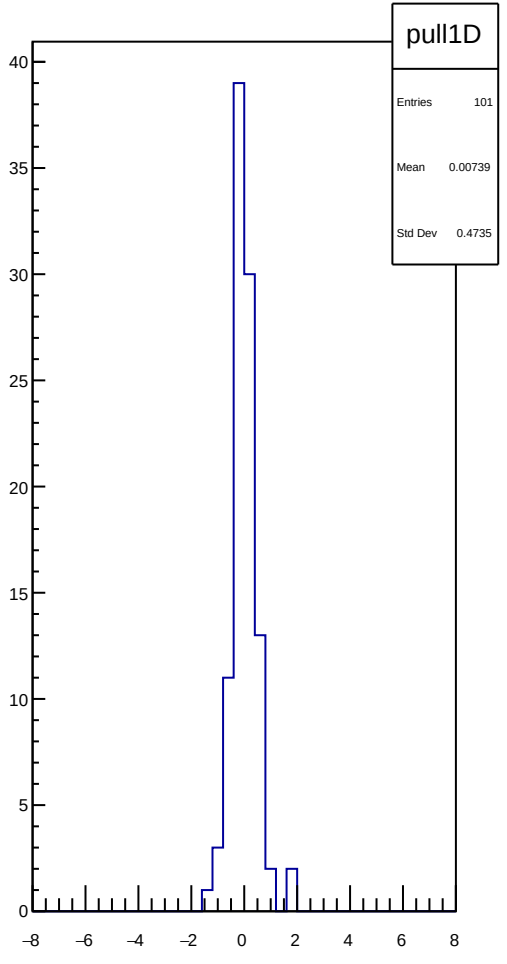

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 25.12 / 100
p0 −499.1 ± 194.1
4000
2000
0
−2000
−4000
pull
Entries 101
Mean −641.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 101
Mean 0.00673
Std Dev 0.4987
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

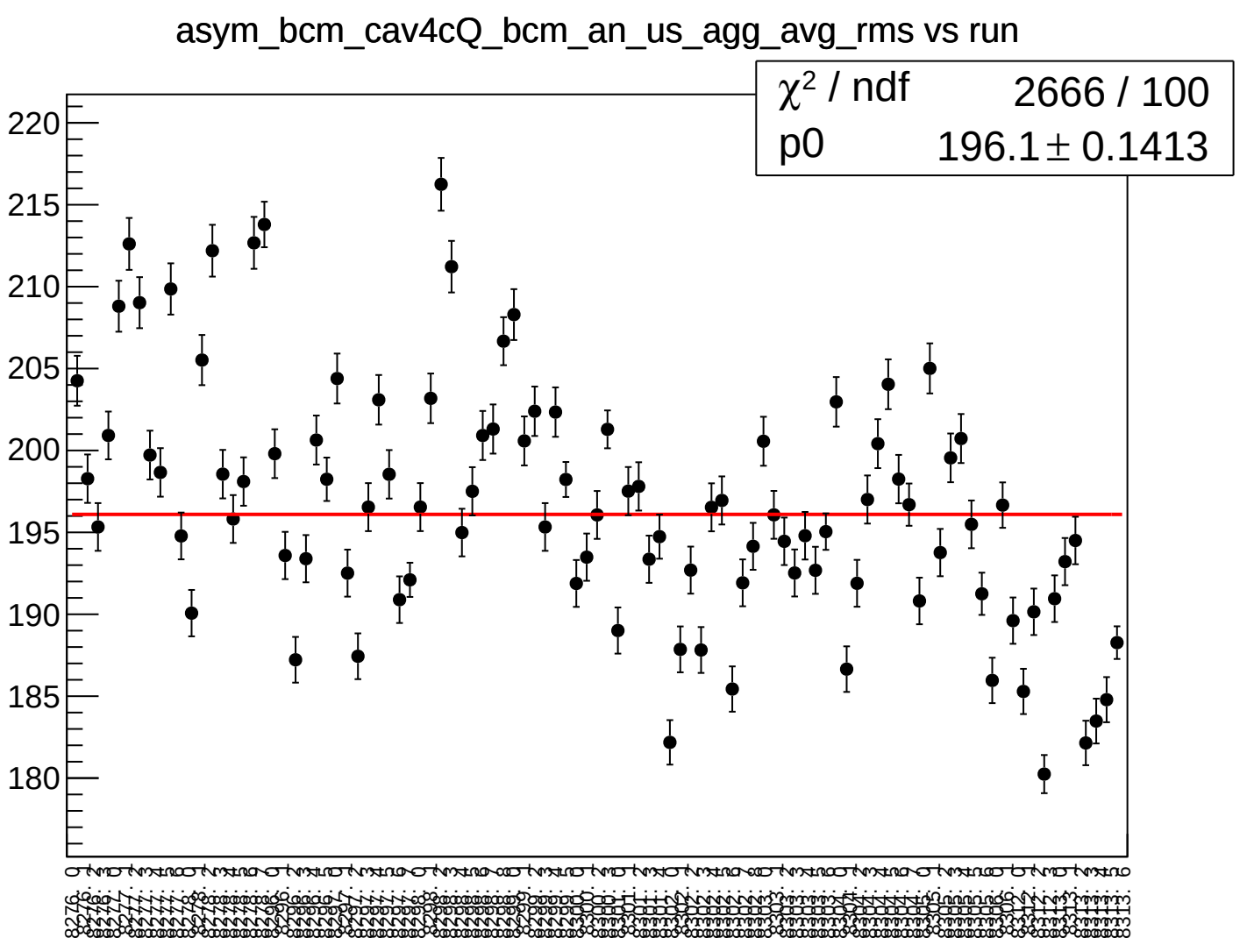

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 2634 / 100
p0 190.4 ± 0.1372
215
210
205
200
195
190
185
180
175
170

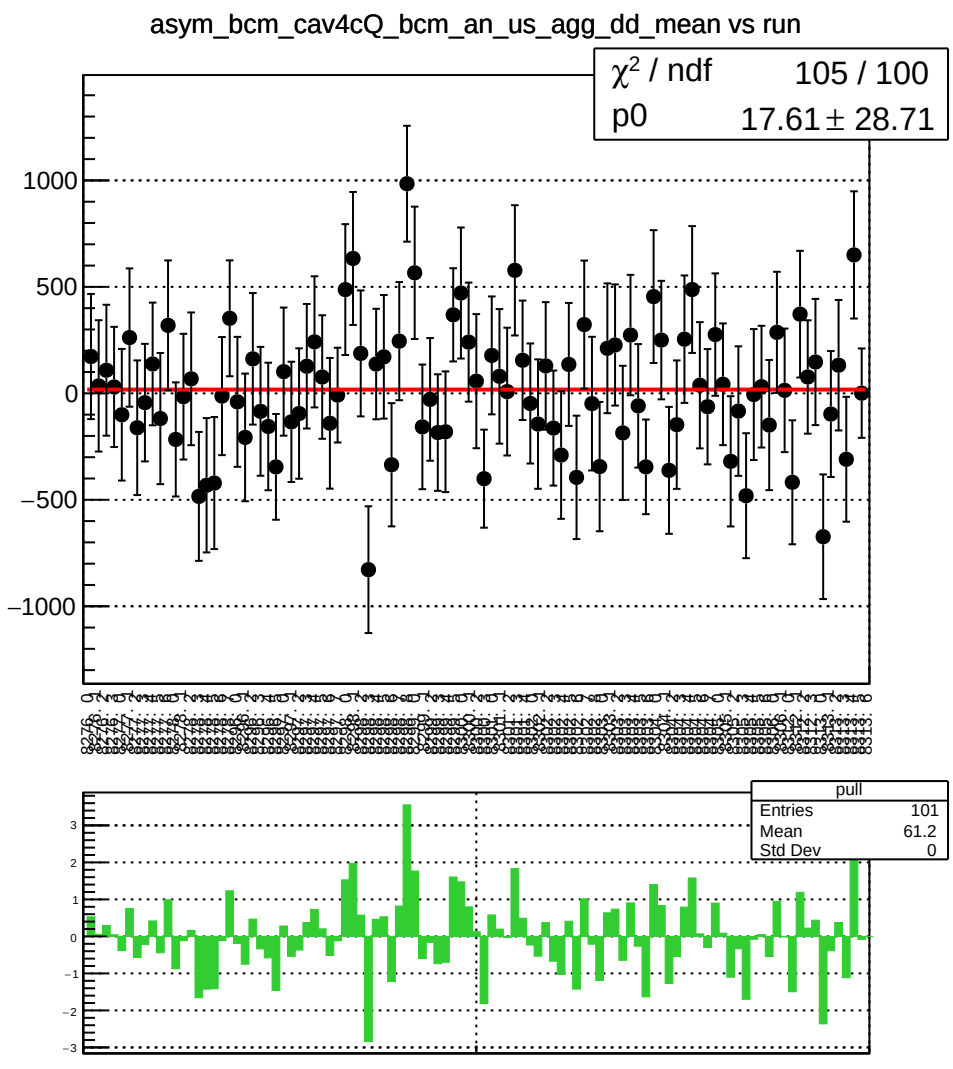

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 103.1 / 100
p0 −29.05 ± 23.48
pull
Entries 101
Mean 36.39
Std Dev 32.29
pull1D
Entries 101
Mean −0.01724
Std Dev 1.01

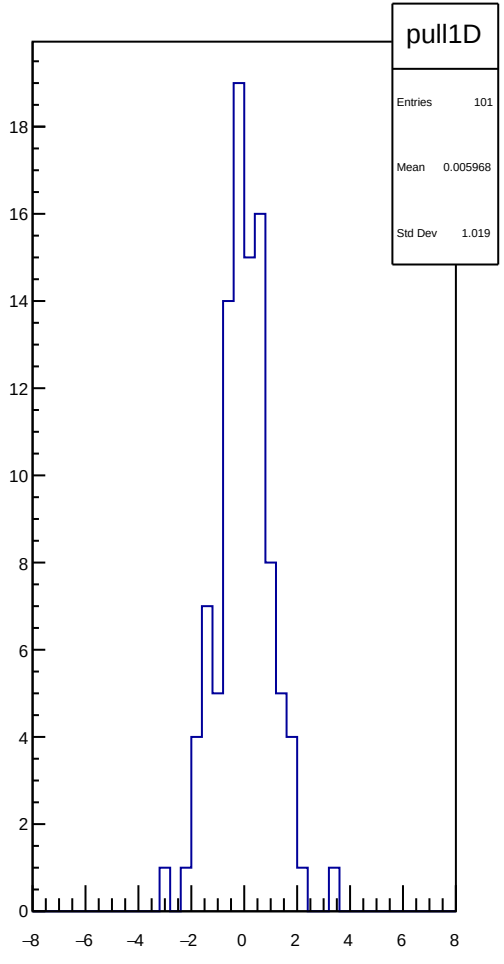

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2414 / 100
p0 23.04 ± 0.0166
25
24
23
22
21

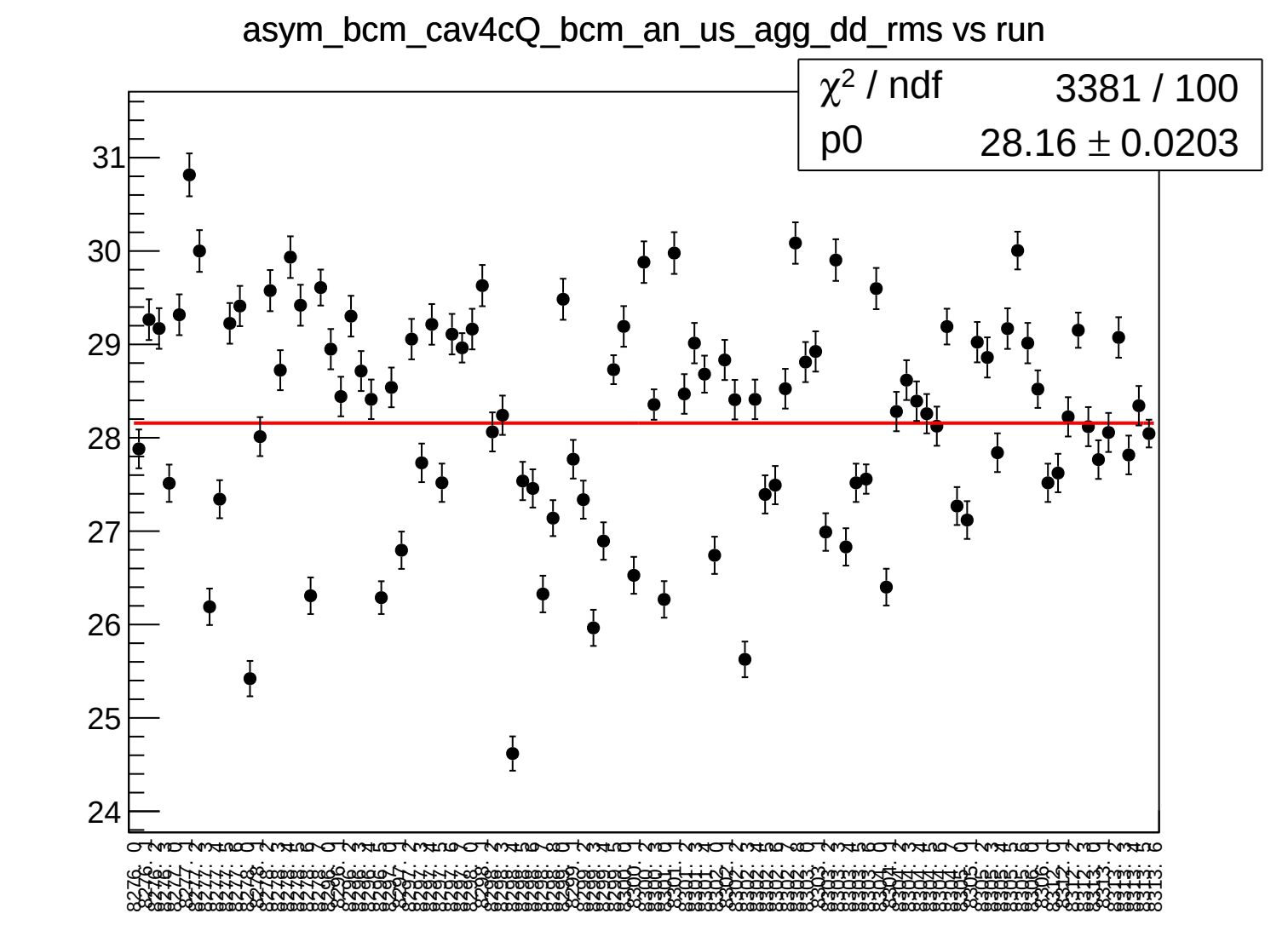

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 22.65 / 100
p0 −448.6 ± 199.9
6000
4000
2000
0
−2000
−4000
pull
Entries 101
Mean −460.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

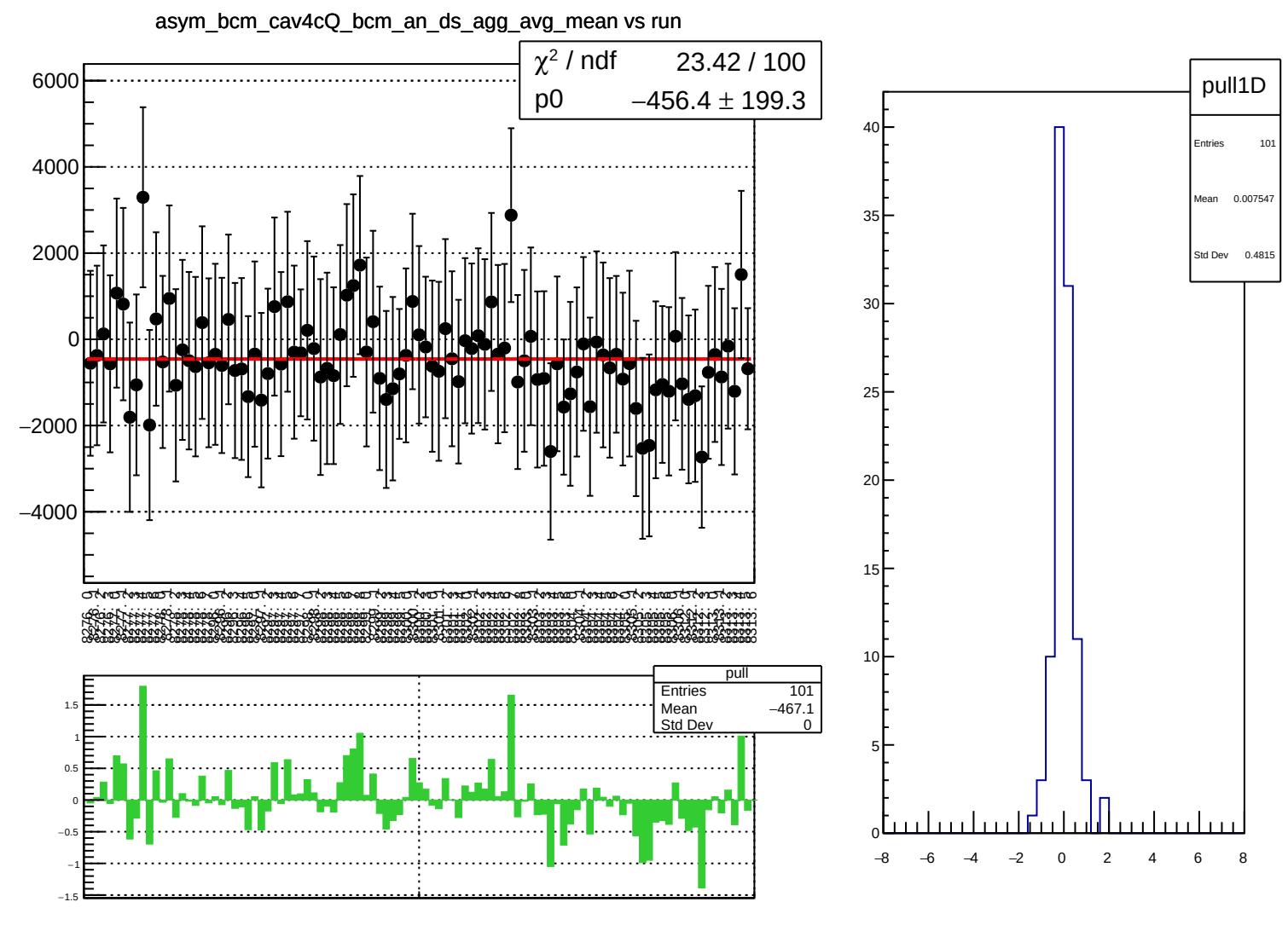

pull1D
Entries 101
Mean 0.00739
Std Dev 0.4735
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

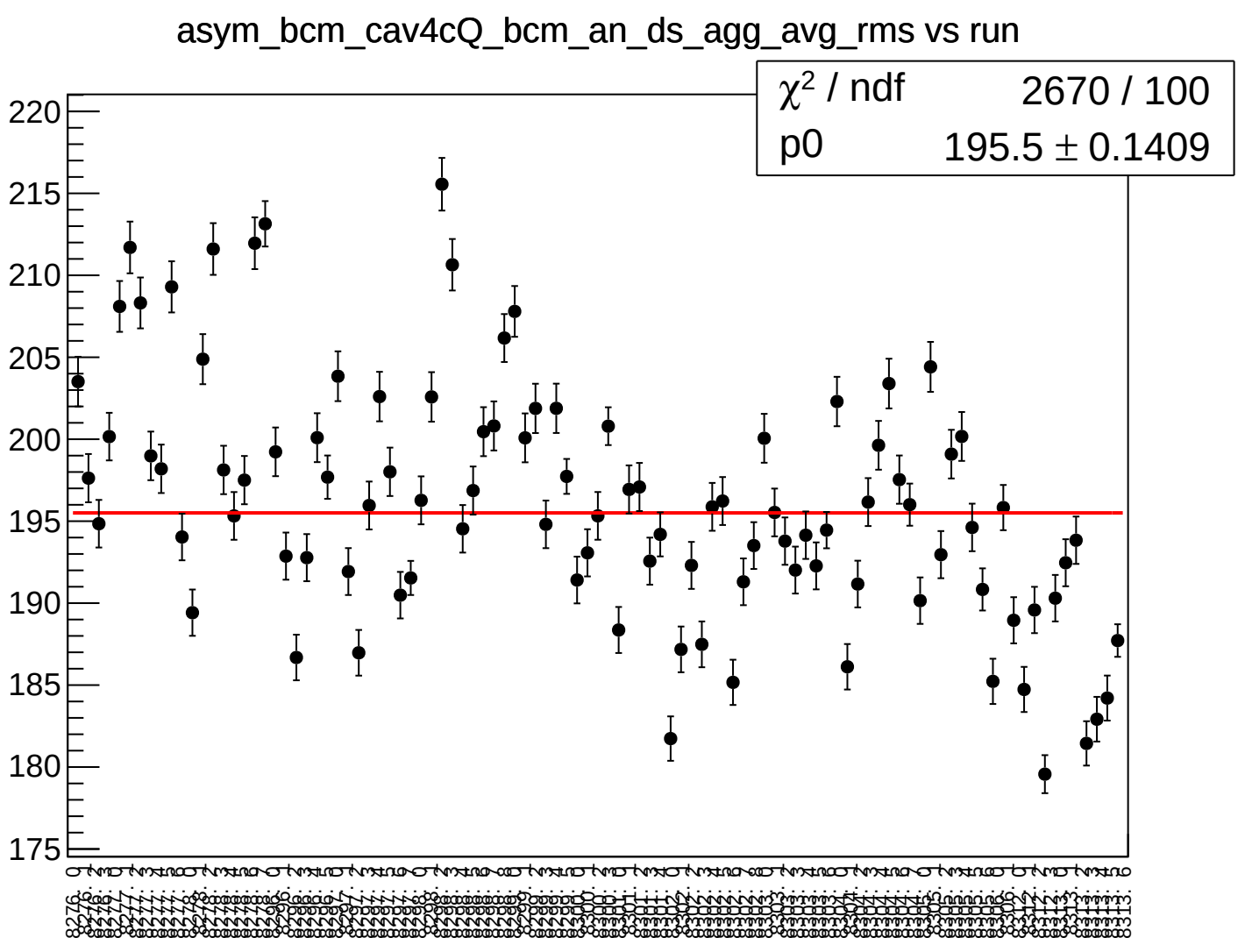

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2666 / 100
p0 196.1 ± 0.1413
220
215
210
205
200
195
190
185
180

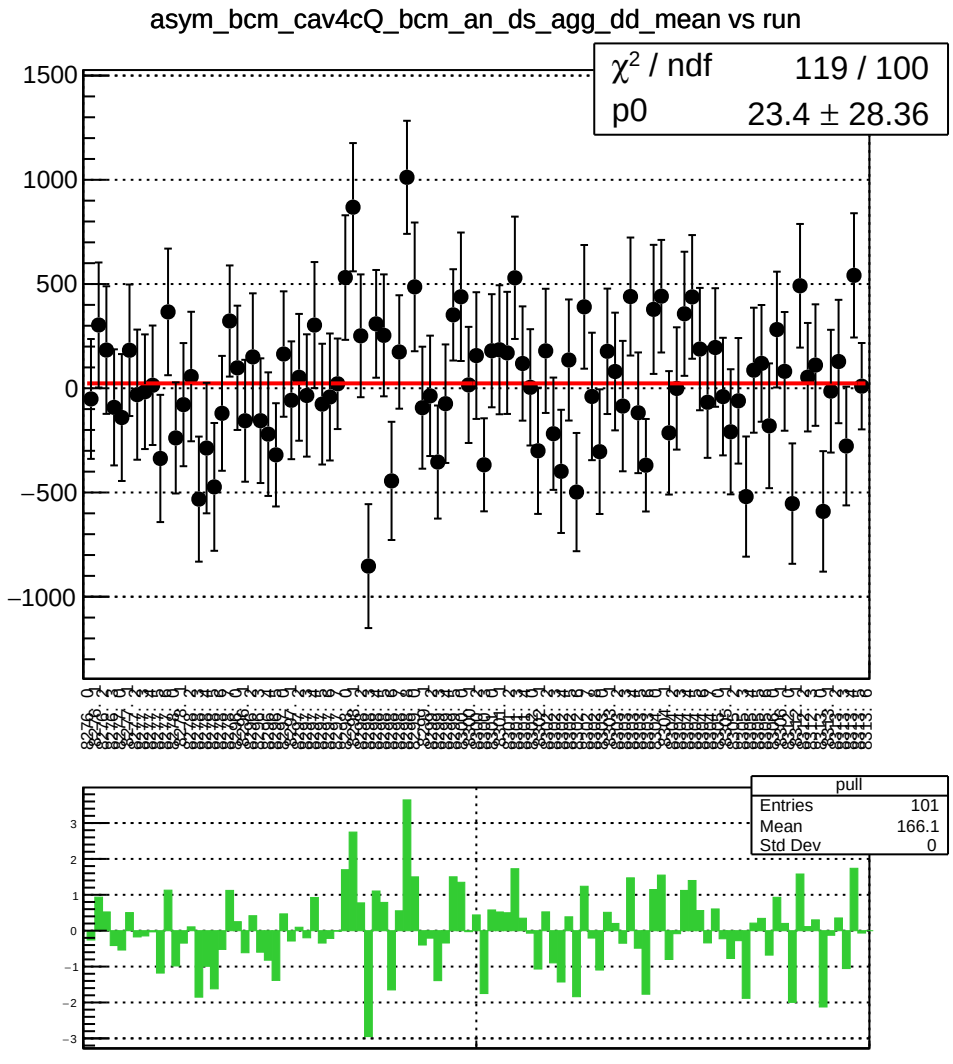

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 105 / 100
p0 17.61 ± 28.71
1000
500
0
−500
−1000
pull
Entries 101
Mean 61.2
Std Dev 0
3
2
1
0
−1
−2
−3

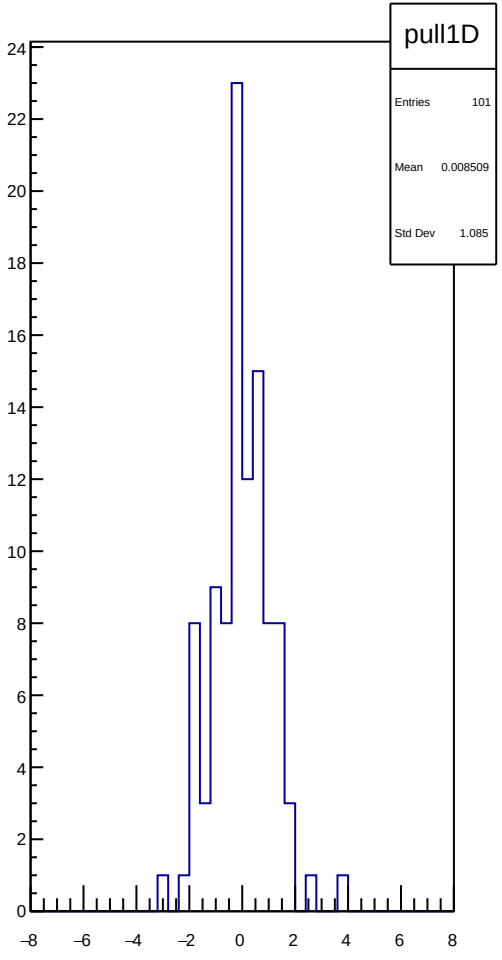

pull1D
Entries 101
Mean 0.005968
Std Dev 1.019
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

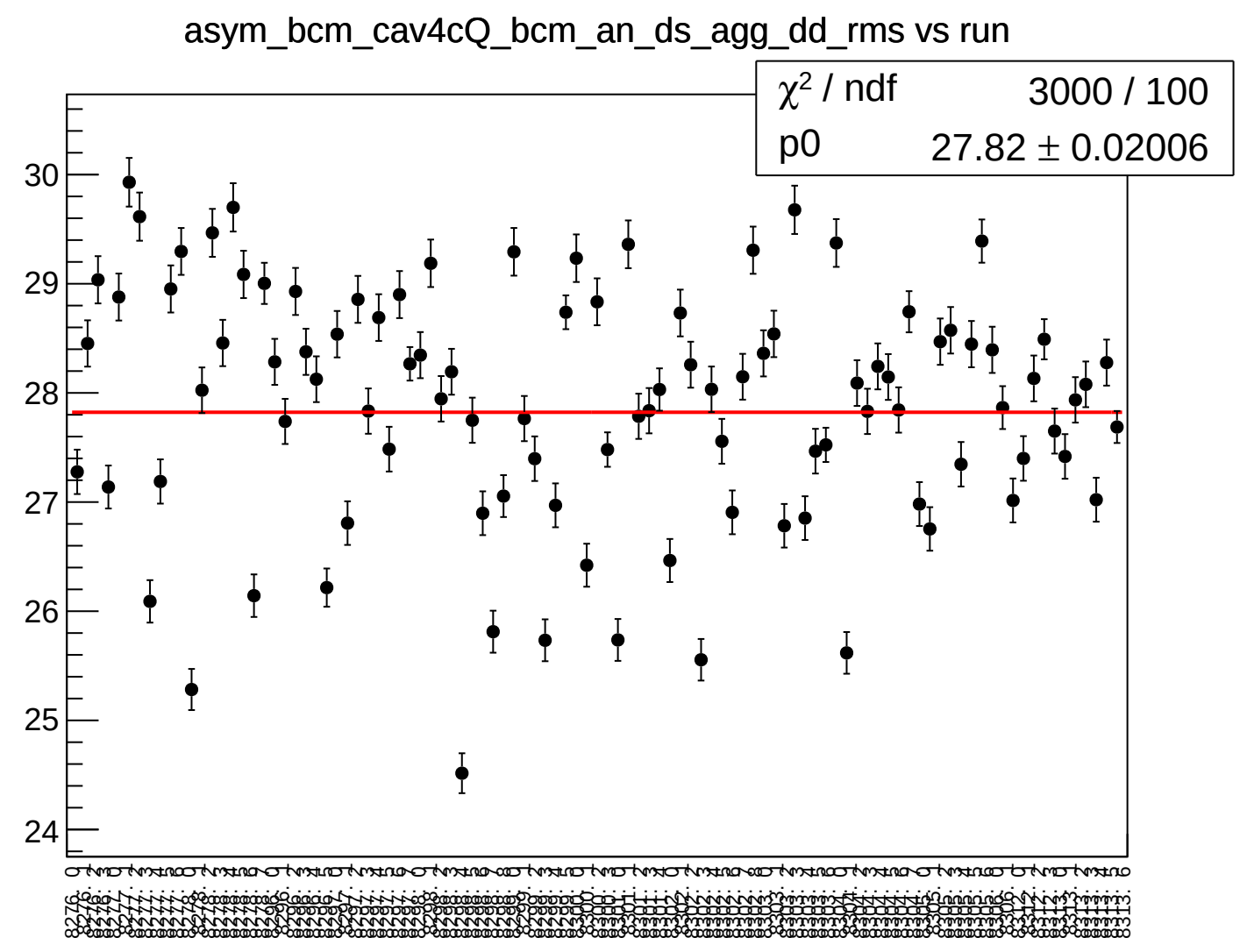

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 3381 / 100
p0 28.16 ± 0.0203
31
30
29
28
27
26
25
24

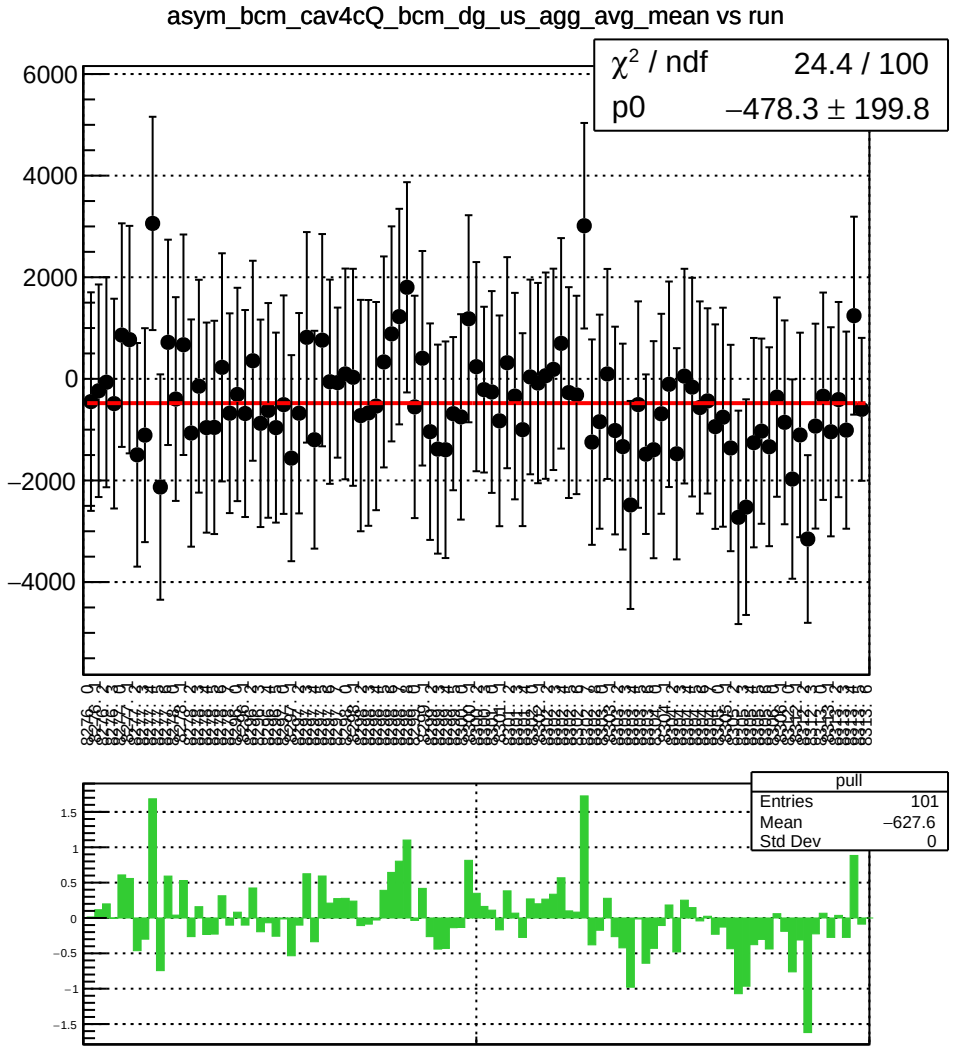

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 23.42 / 100
p0 −456.4 ± 199.3
6000
4000
2000
0
−2000
−4000
pull
Entries 101
Mean −467.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 101
Mean 0.007547
Std Dev 0.4815
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

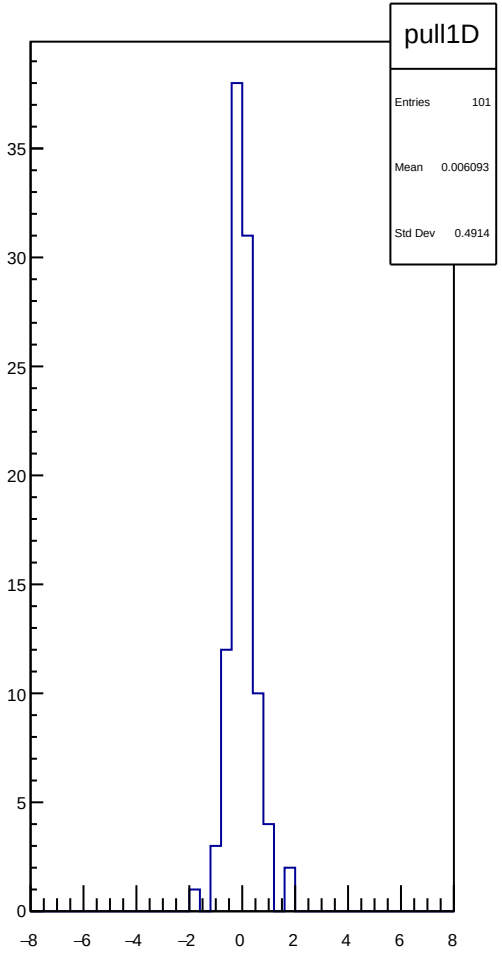

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2670 / 100
p0 195.5 ± 0.1409
220
215
210
205
200
195
190
185
180
175


asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 119 / 100
p0 23.4 ± 28.36
1500
1000
500
0
−500
−1000
pull
Entries 101
Mean 166.1
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 101
Mean 0.008509
Std Dev 1.085
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 3000 / 100
p0 27.82 ± 0.02006
30
29
28
27
26
25
24


asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 24.4 / 100
p0 −478.3 ± 199.8
6000
4000
2000
0
−2000
−4000
pull
Entries 101
Mean −627.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 101
Mean 0.006093
Std Dev 0.4914
35
30
25
20
15
10
5
0
−8
−6
−4
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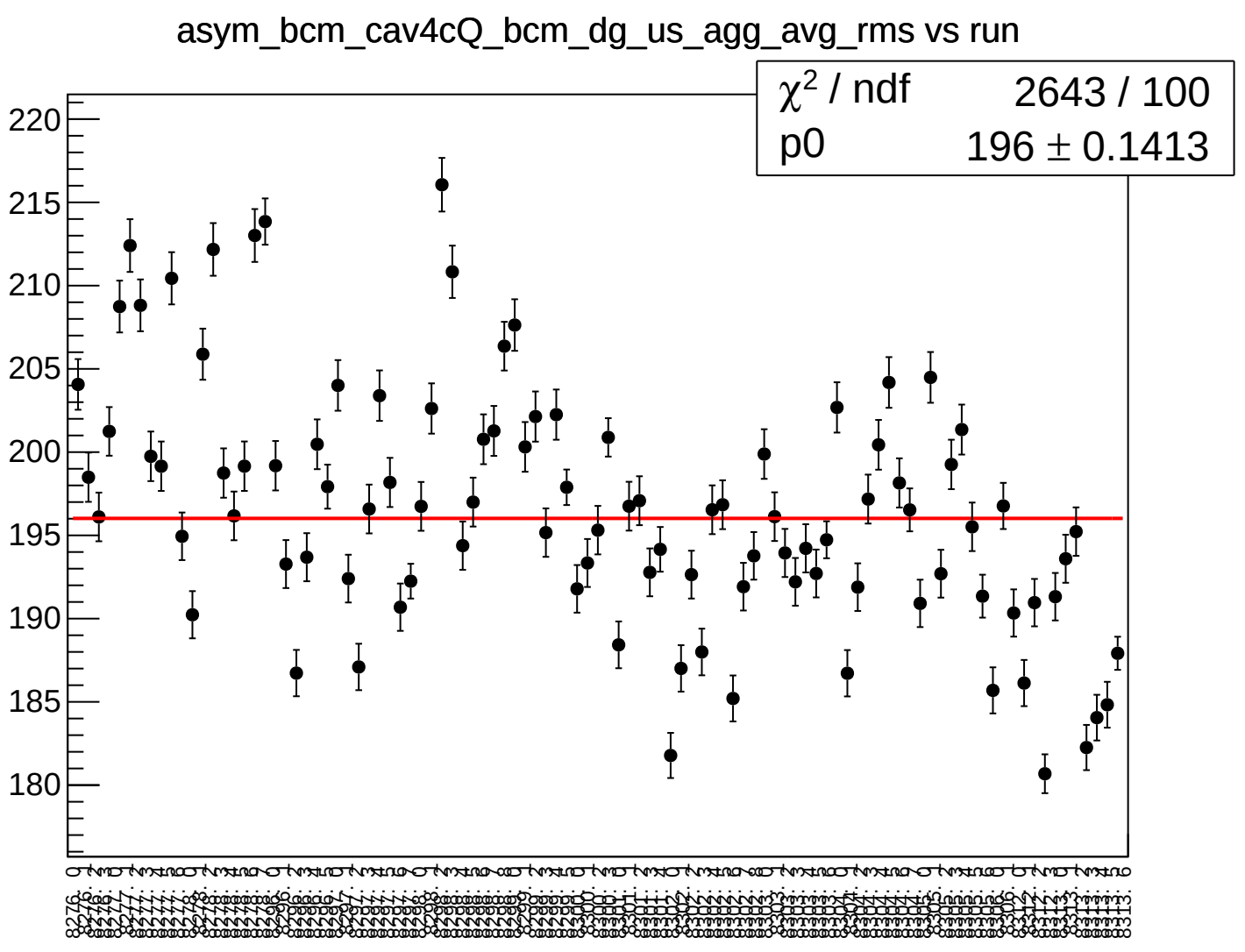
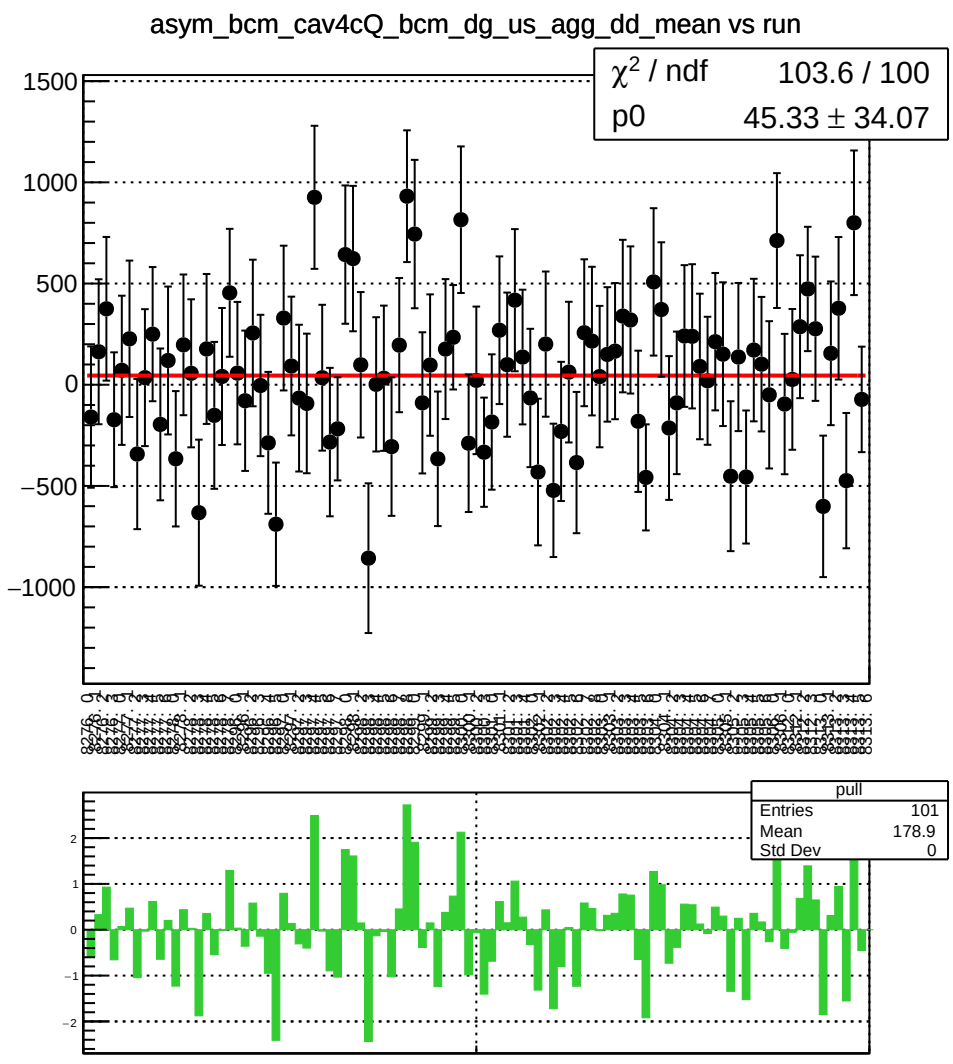
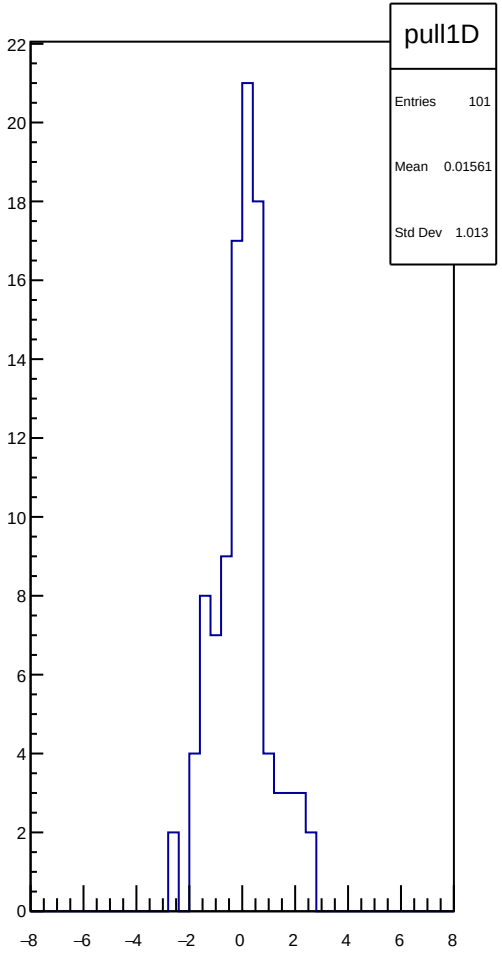
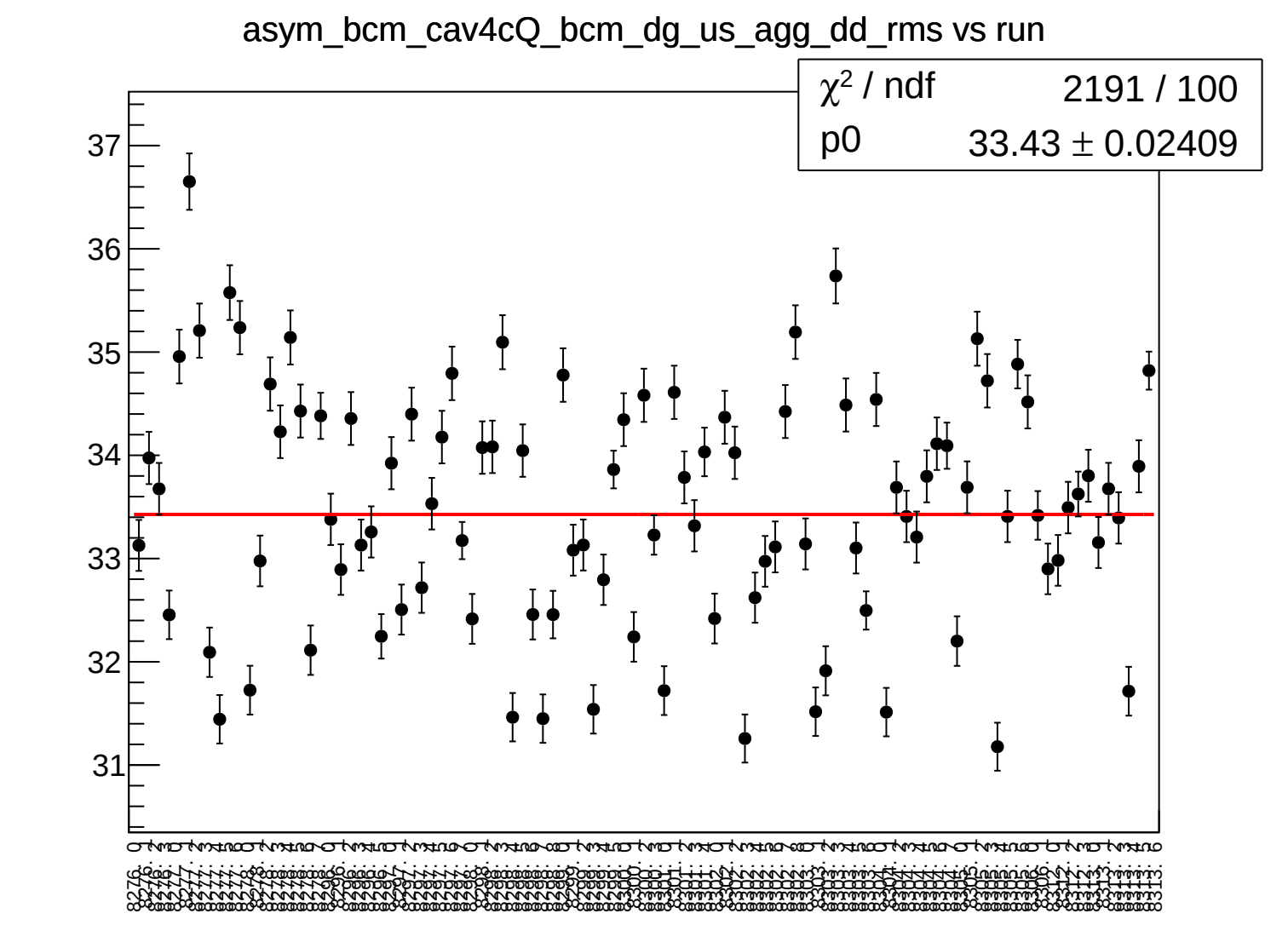
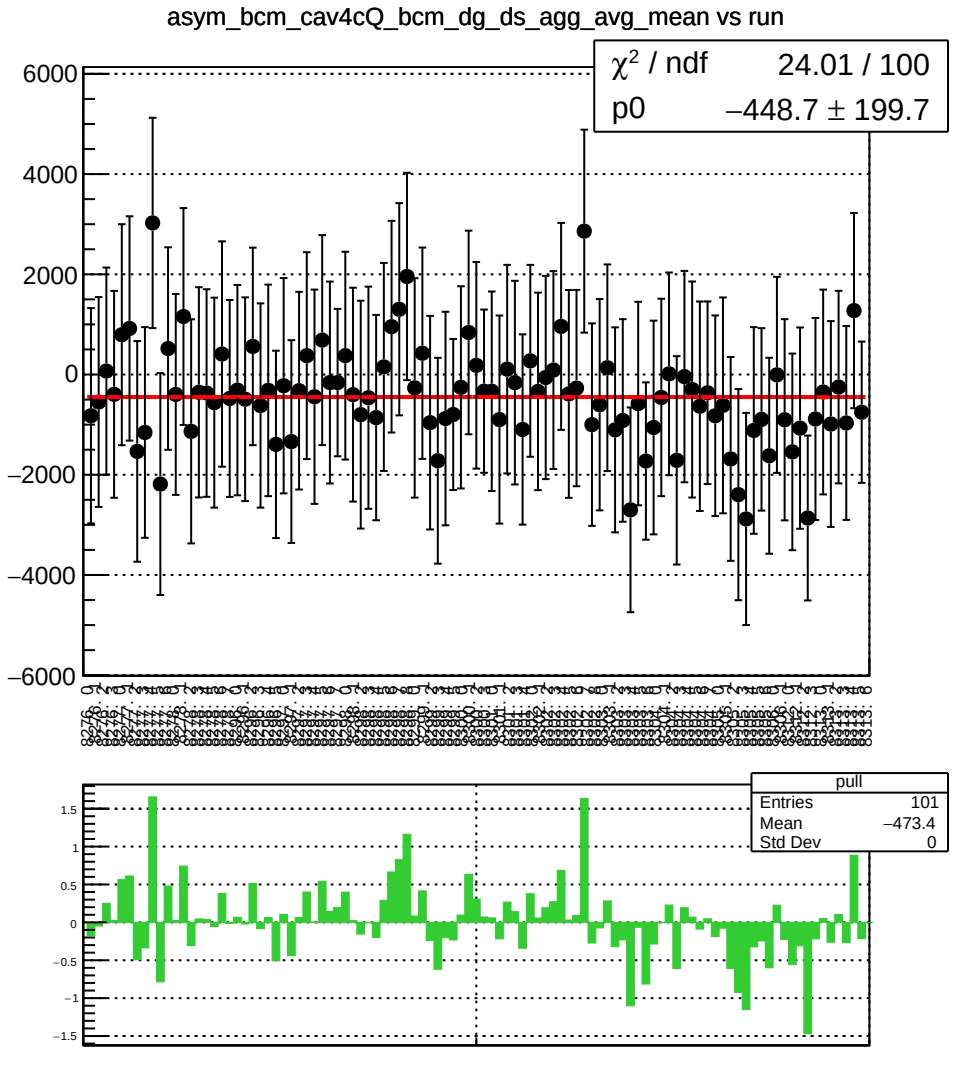
0
2
4
6
8

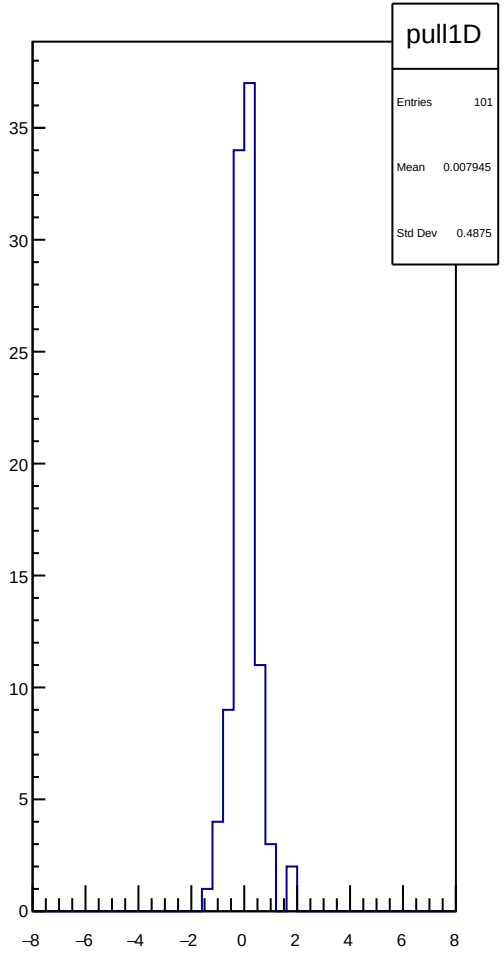

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 2643 / 100
p0 196 ± 0.1413
220
215
210
205
200
195
190
185
180


asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 103.6 / 100
p0 45.33 ± 34.07
pull
Entries 101
Mean 178.9
Std Dev 0


pull1D
Entries 101
Mean 0.01561
Std Dev 1.013


asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 2191 / 100
p0 33.43 ± 0.02409
37
36
35
34
33
32
31


asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 24.01 / 100
p0 −448.7 ± 199.7
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 101
Mean −473.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 101
Mean 0.007945
Std Dev 0.4875
35
30
25
20
15
10
5
0
−8
−6
−4
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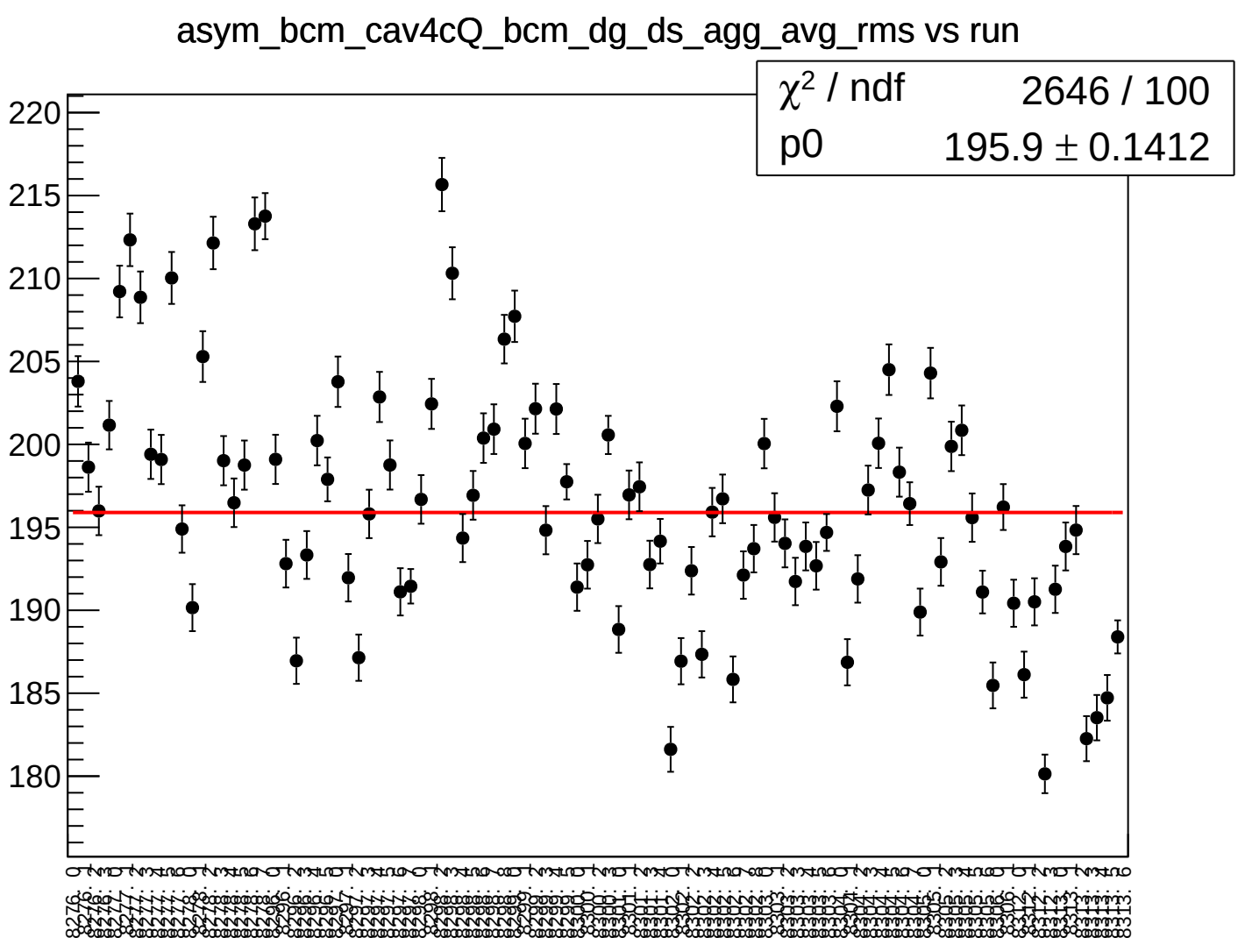
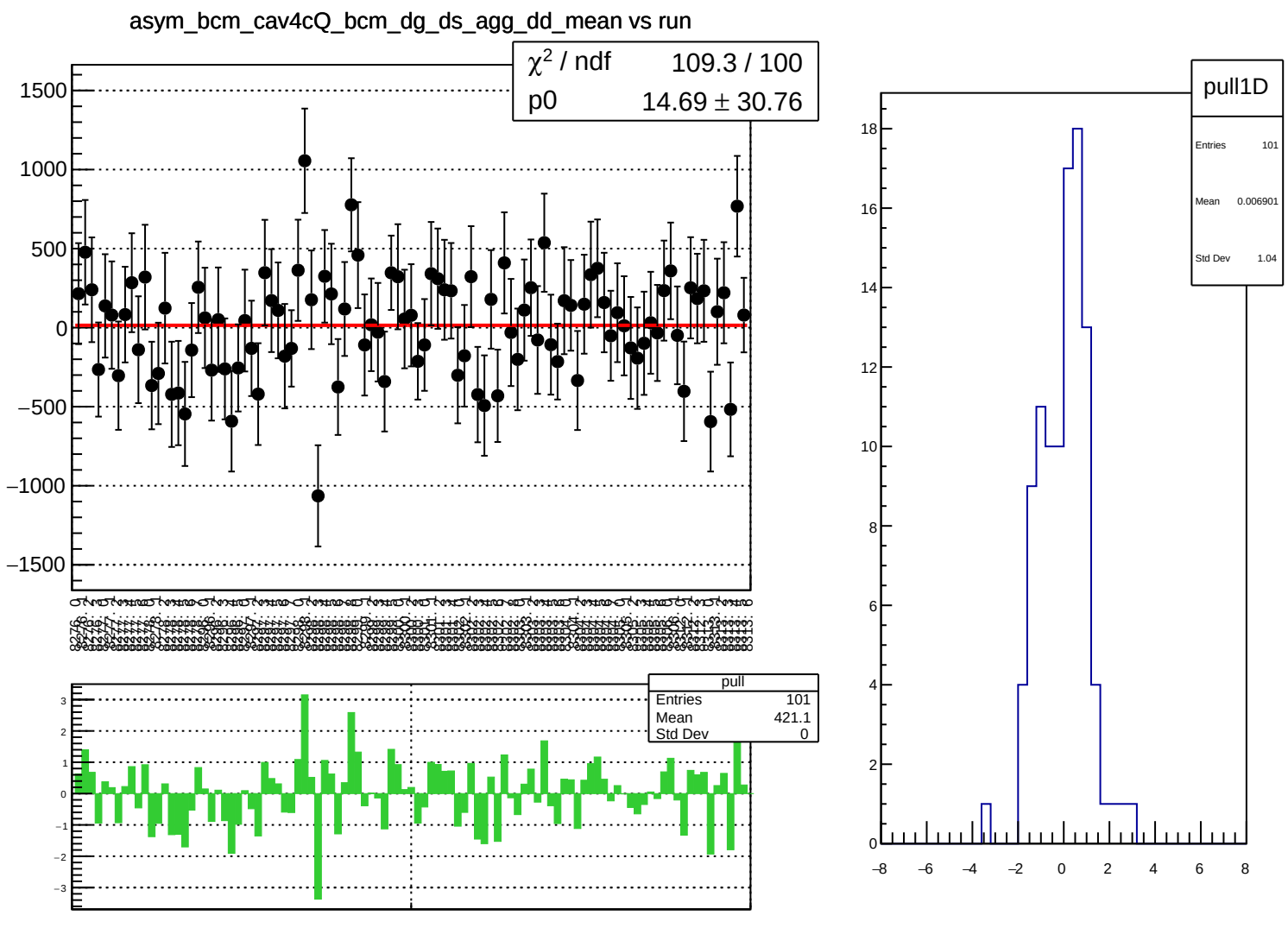
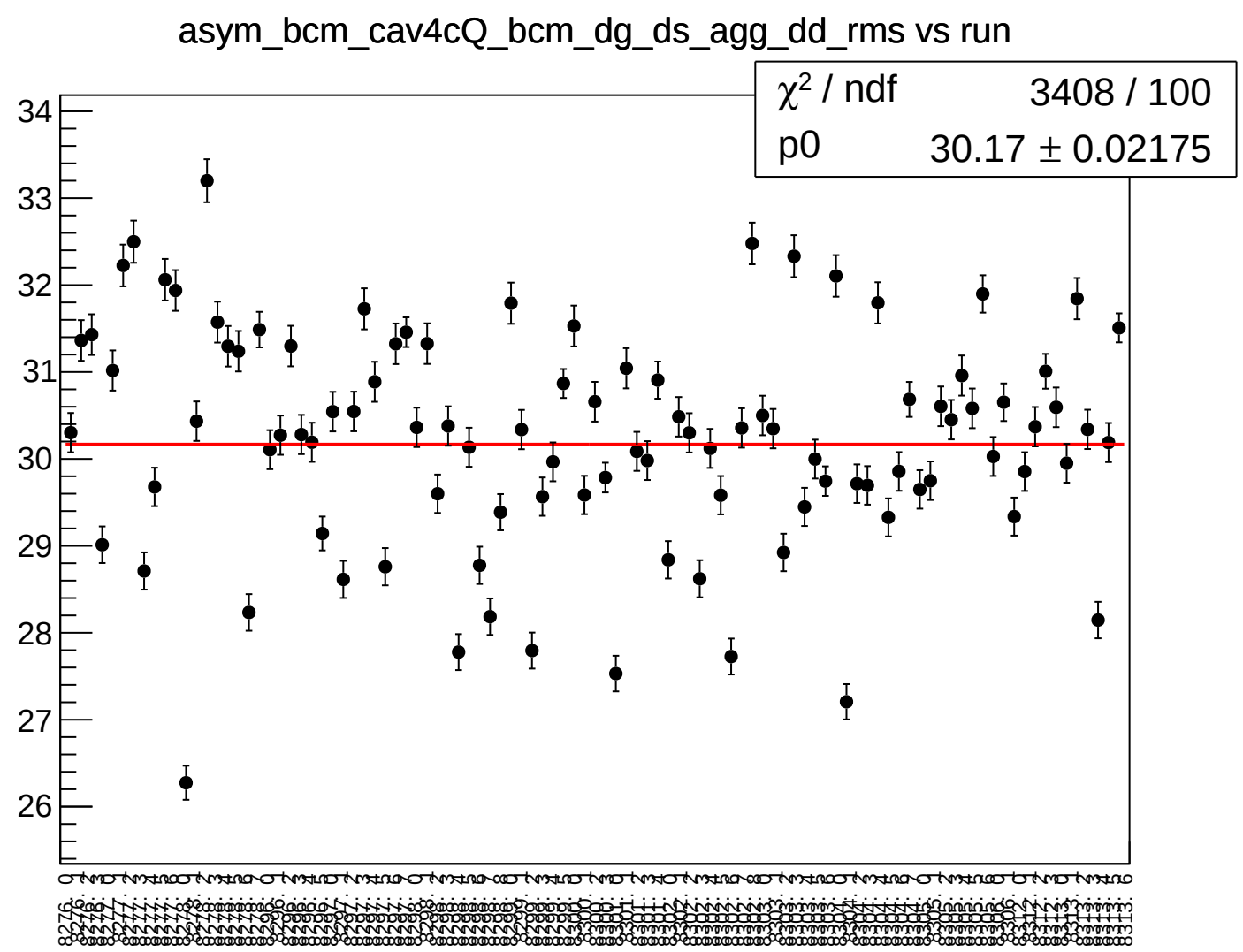
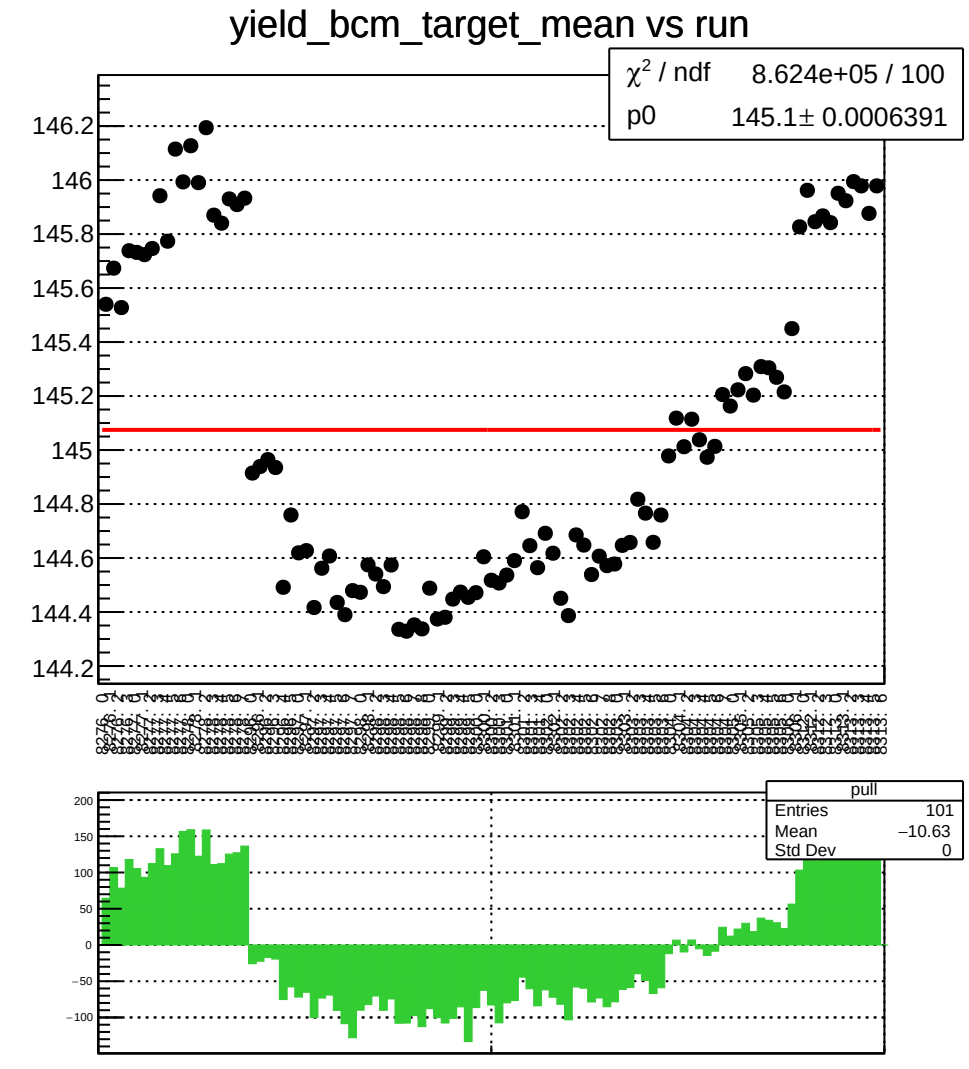
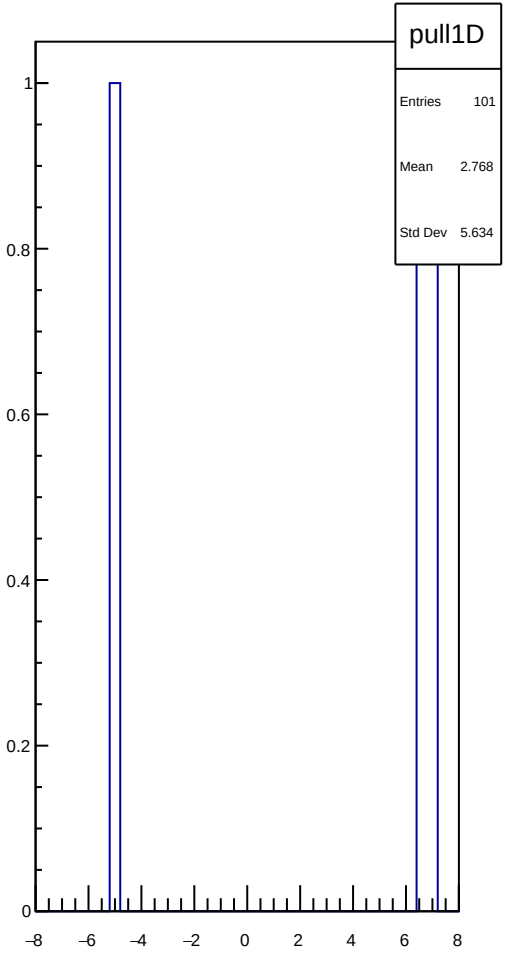
2
4
6
8

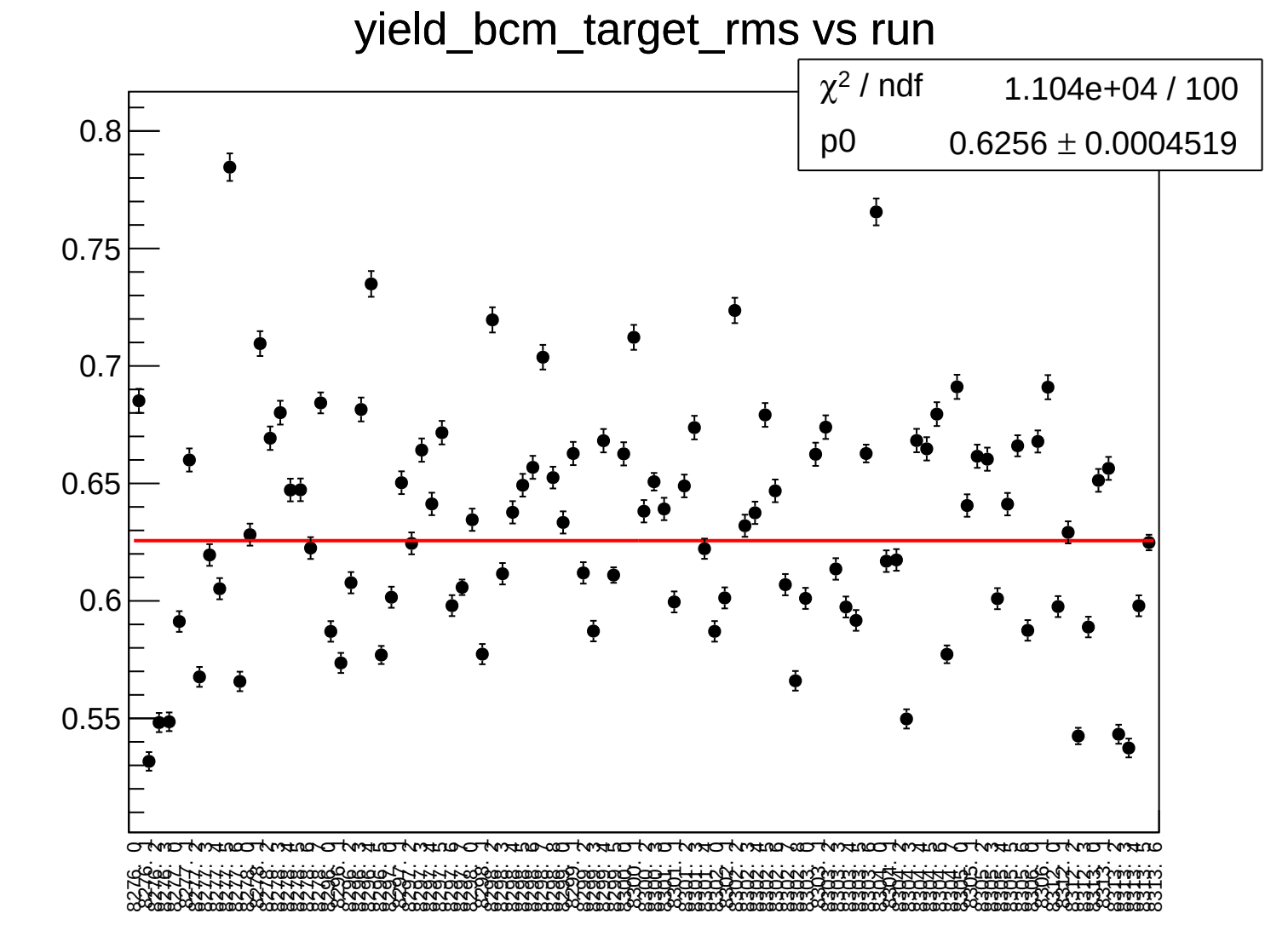

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 2646 / 100
p0 195.9 ± 0.1412
220
215
210
205
200
195
190
185
180

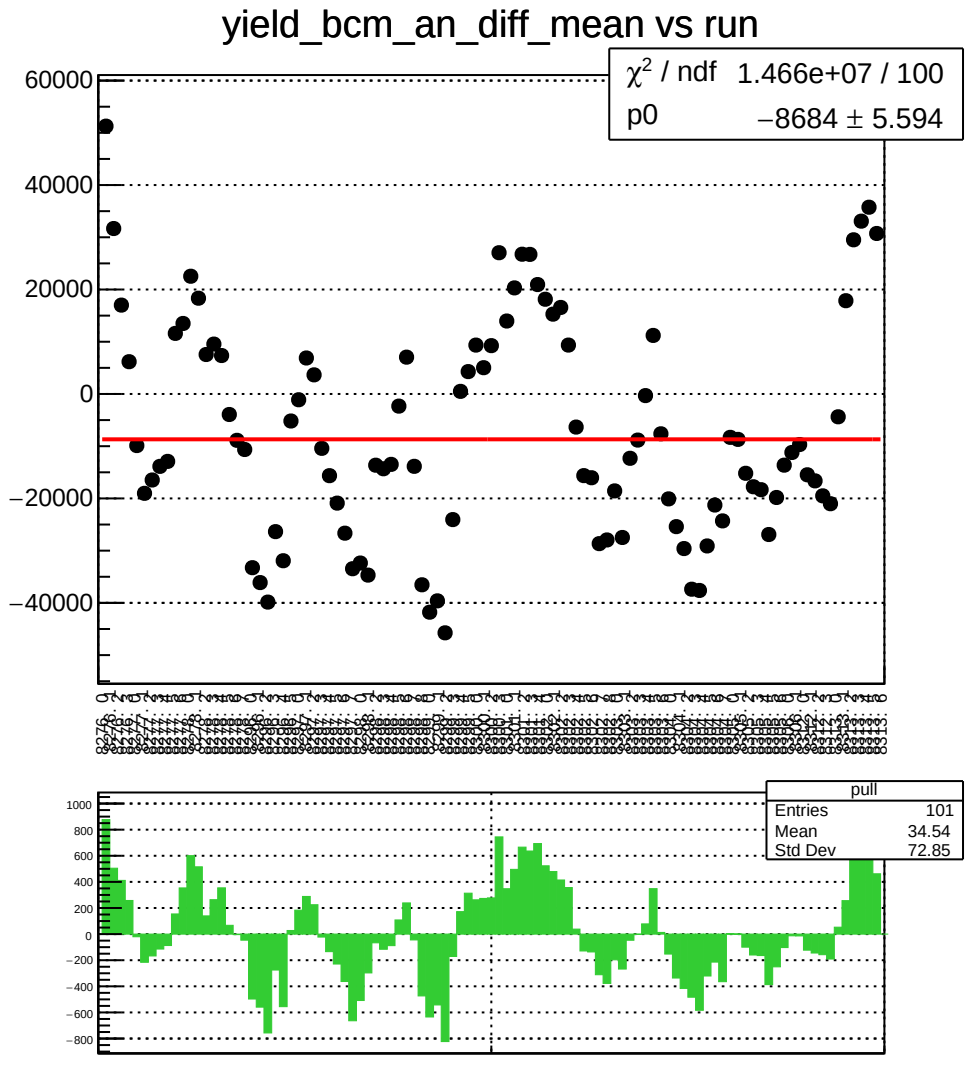

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 109.3 / 100
p0 14.69 ± 30.76
1500
1000
500
0
−500
−1000
−1500
pull
Entries 101
Mean 421.1
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.006901
Std Dev 1.04
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

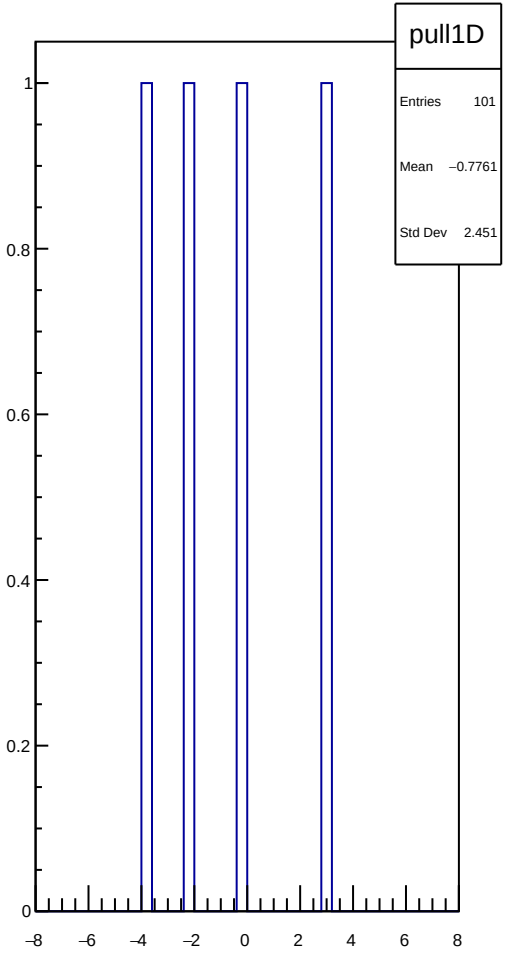

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 3408 / 100
p0 30.17 ± 0.02175
34
33
32
31
30
29
28
27
26

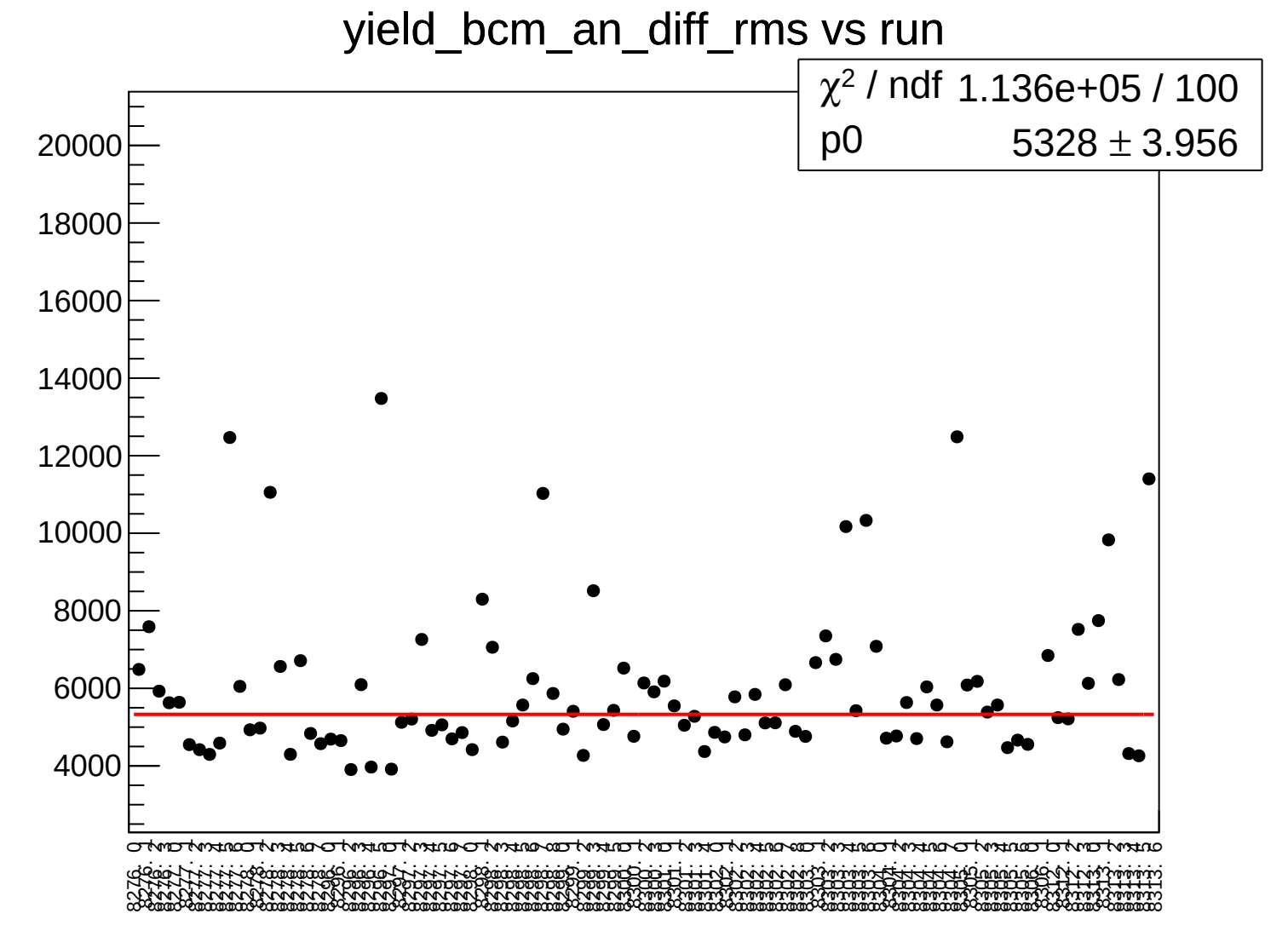

yield_bcm_target_mean vs run
χ² / ndf 8.624e+05 / 100
p0 145.1± 0.0006391
146.2
146
145.8
145.6
145.4
145.2
145
144.8
144.6
144.4
144.2
pull
Entries 101
Mean −10.63
Std Dev 0
200
150
100
50
0
−50
−100

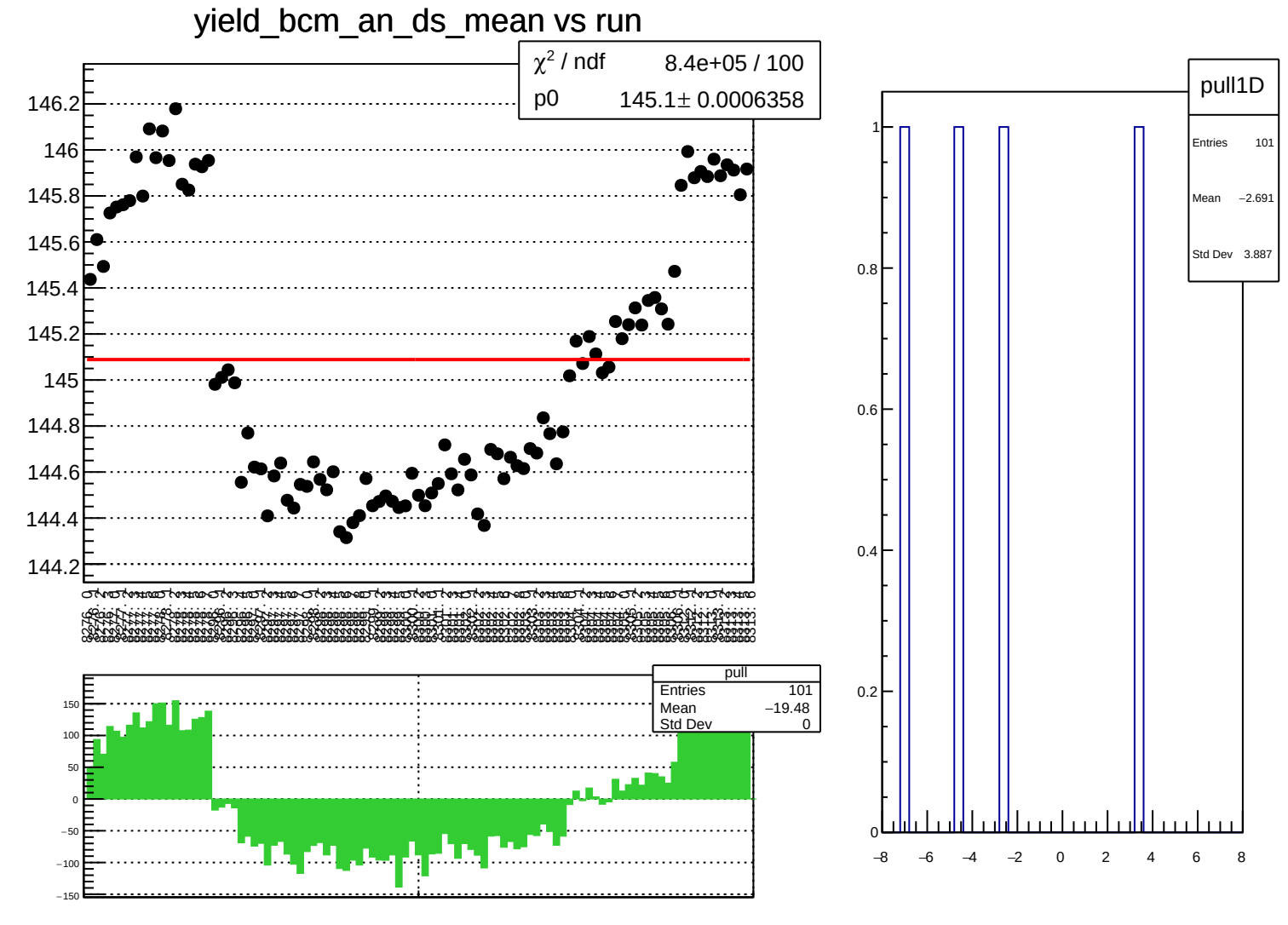

pull1D
Entries 101
Mean 2.768
Std Dev 5.634
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

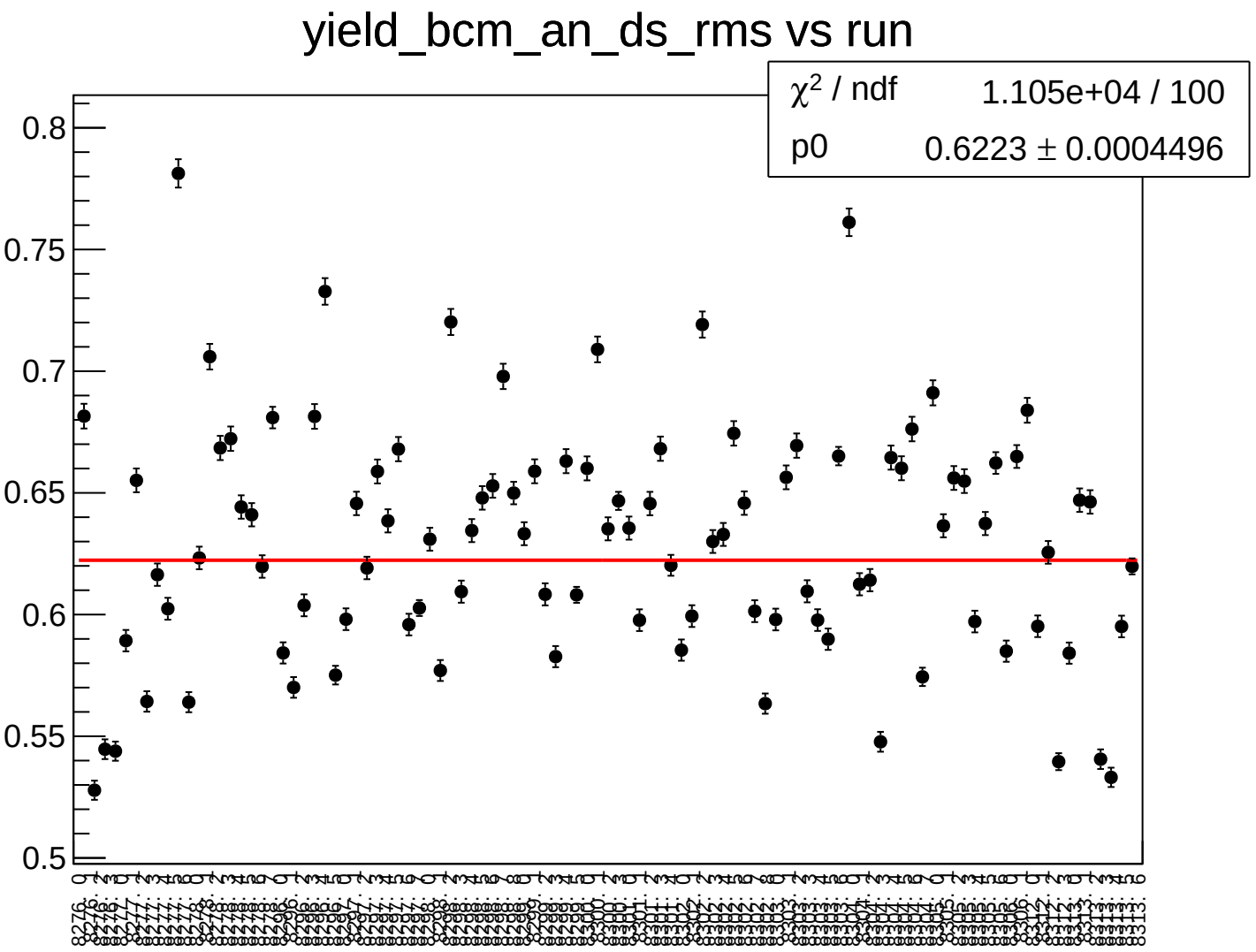

yield_bcm_target_rms vs run
χ² / ndf 1.104e+04 / 100
p0 0.6256 ± 0.0004519
0.8
0.75
0.7
0.65
0.6
0.55

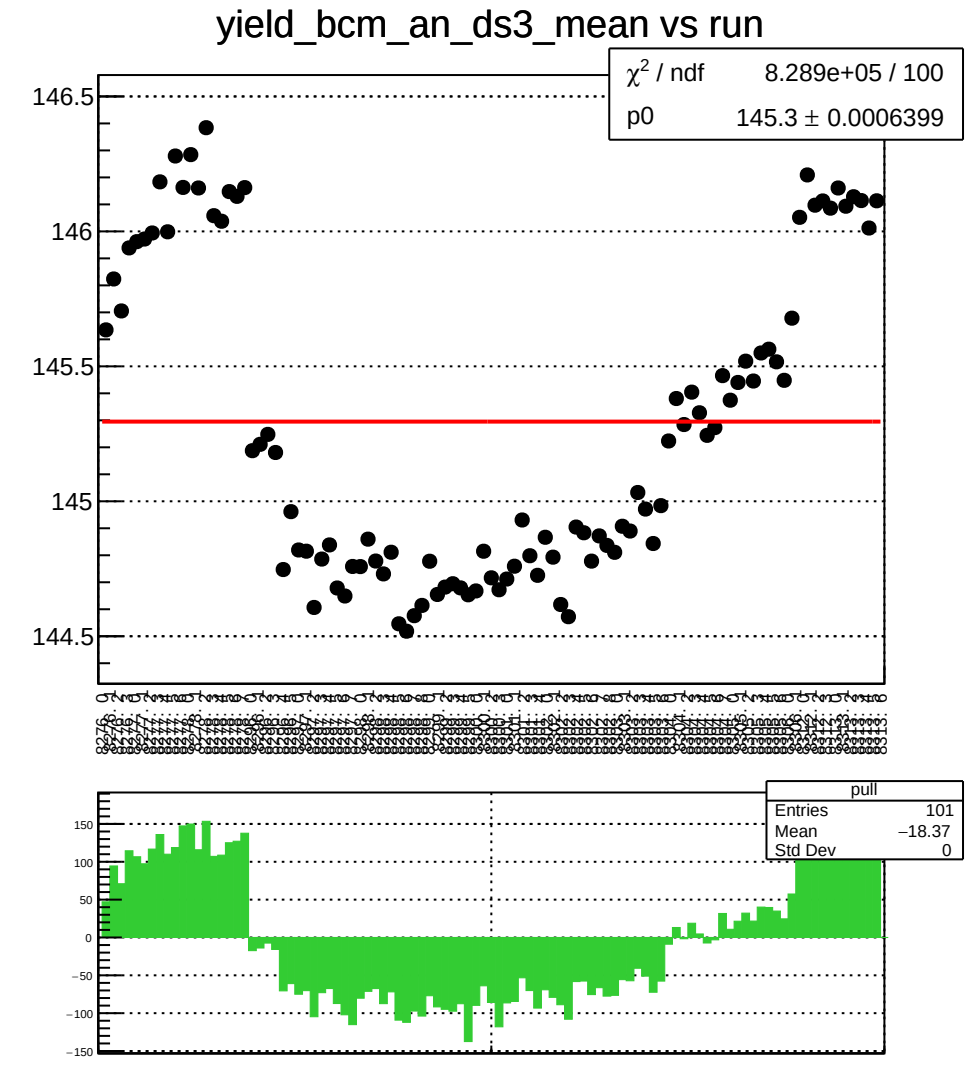

yield_bcm_an_diff_mean vs run
χ² / ndf 1.466e+07 / 100
p0 −8684 ± 5.594
60000
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 34.54
Std Dev 72.85
1000
800
600
400
200
0
−200
−400
−600
−800

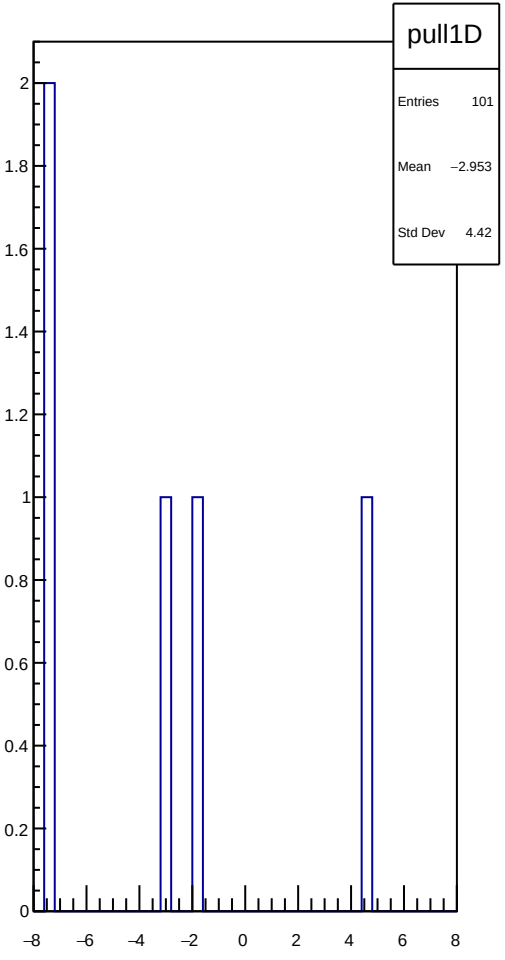

pull1D
Entries 101
Mean −0.7761
Std Dev 2.451
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

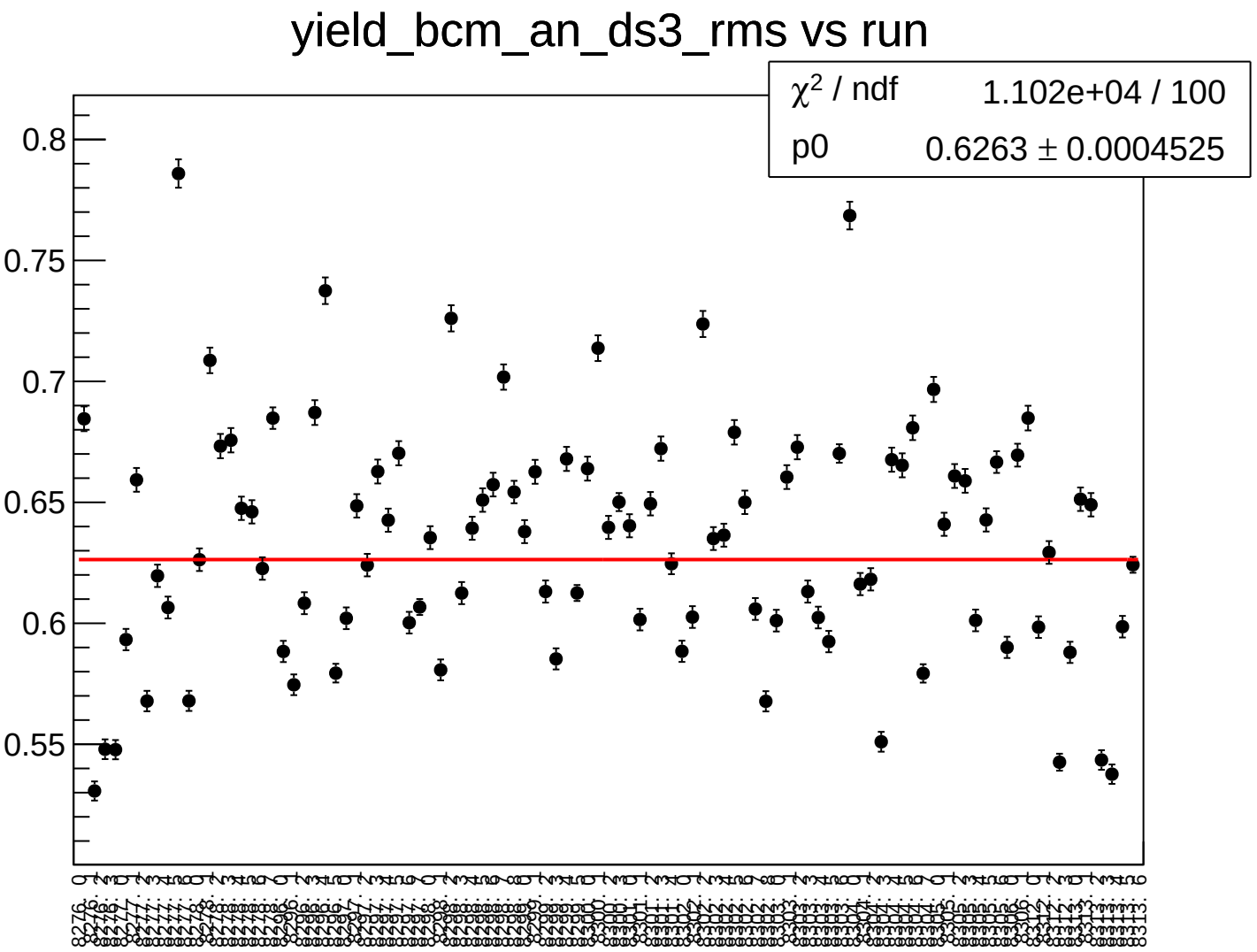

yield_bcm_an_diff_rms vs run
χ² / ndf 1.136e+05 / 100
p0 5328 ± 3.956
20000
18000
16000
14000
12000
10000
8000
6000
4000

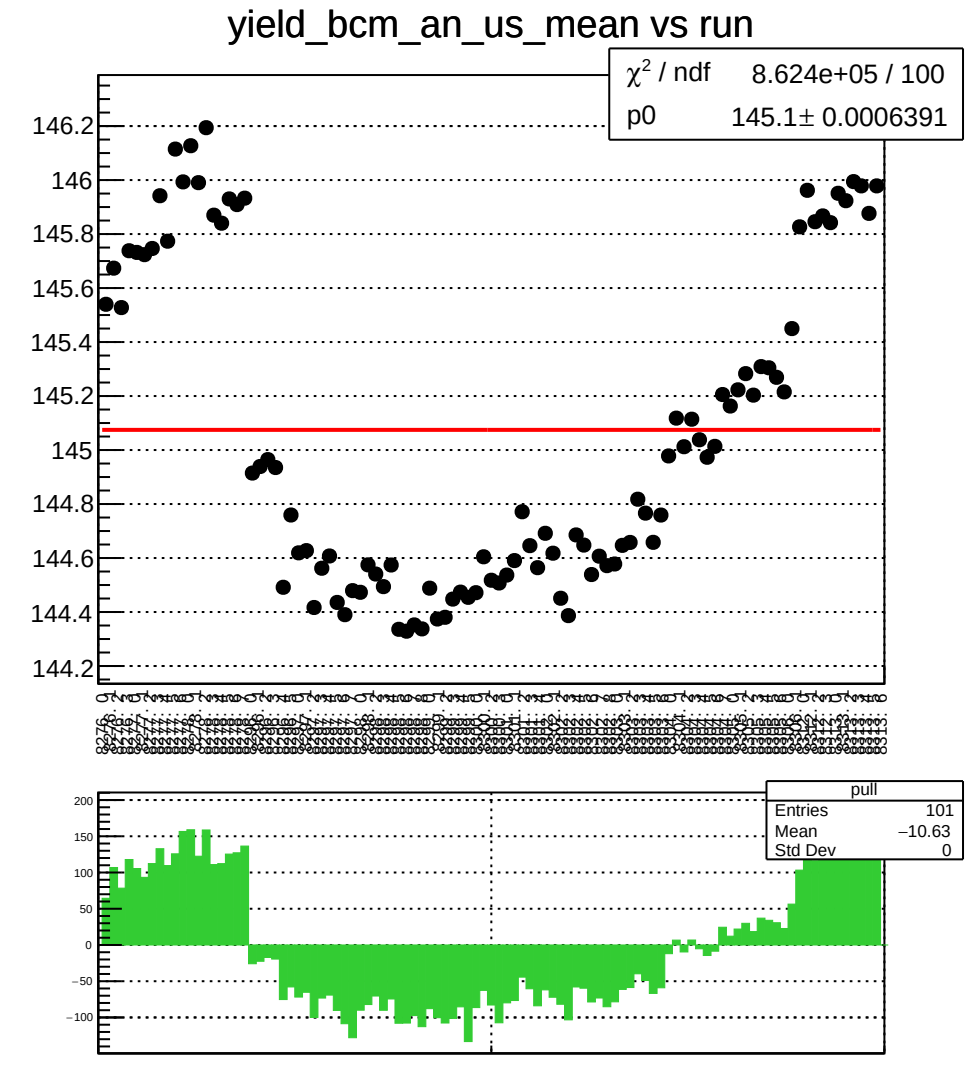

yield_bcm_an_ds_mean vs run
χ² / ndf 8.4e+05 / 100
p0 145.1± 0.0006358
146.2
146
145.8
145.6
145.4
145.2
145
144.8
144.6
144.4
144.2
pull
Entries 101
Mean −19.48
Std Dev 0
150
100
50
0
−50
−100
−150
pull1D
Entries 101
Mean −2.691
Std Dev 3.887
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

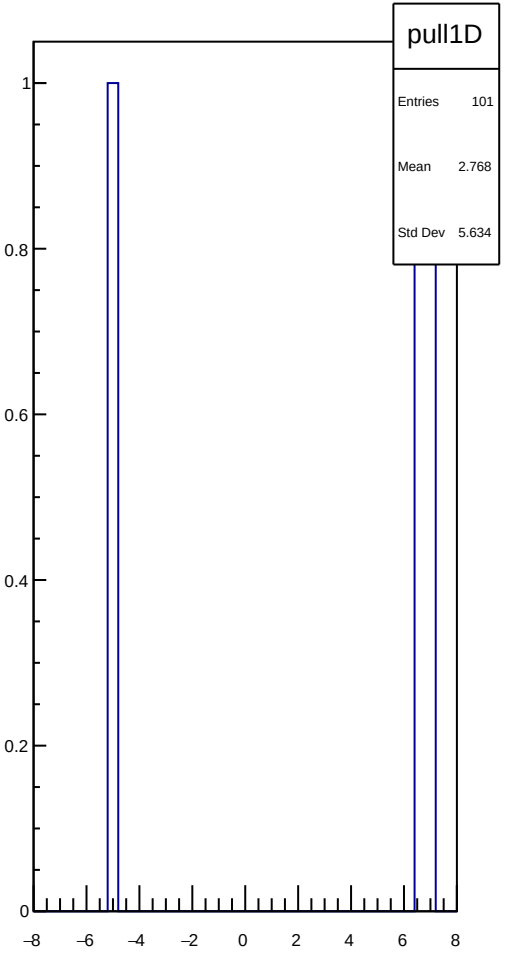

yield_bcm_an_ds_rms vs run
χ² / ndf 1.105e+04 / 100
p0 0.6223 ± 0.0004496
0.8
0.75
0.7
0.65
0.6
0.55
0.5

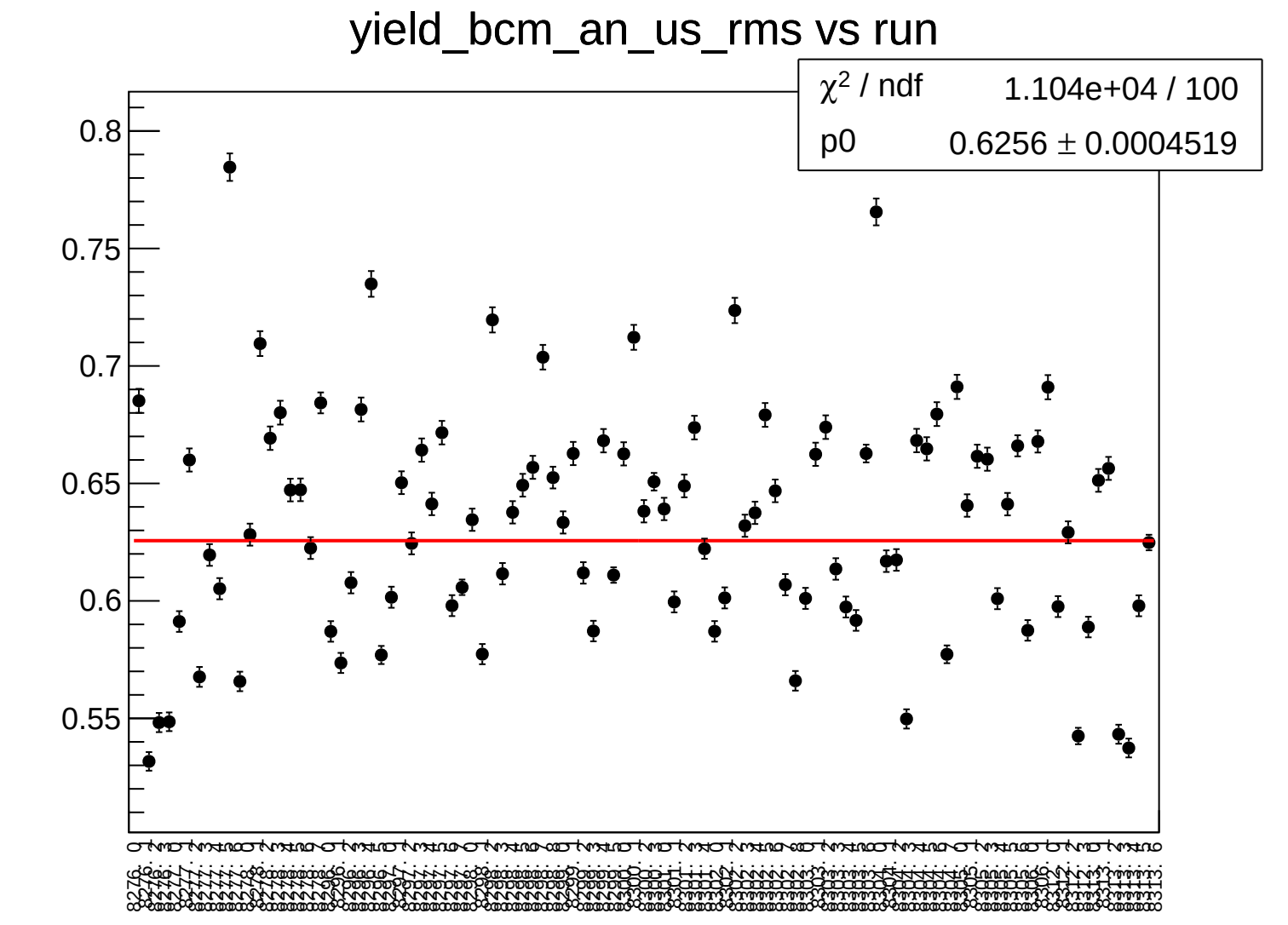

yield_bcm_an_ds3_mean vs run
χ² / ndf 8.289e+05 / 100
p0 145.3 ± 0.0006399
146.5
146
145.5
145
144.5
pull
Entries 101
Mean −18.37
Std Dev 0
150
100
50
0
−50
−100
−150

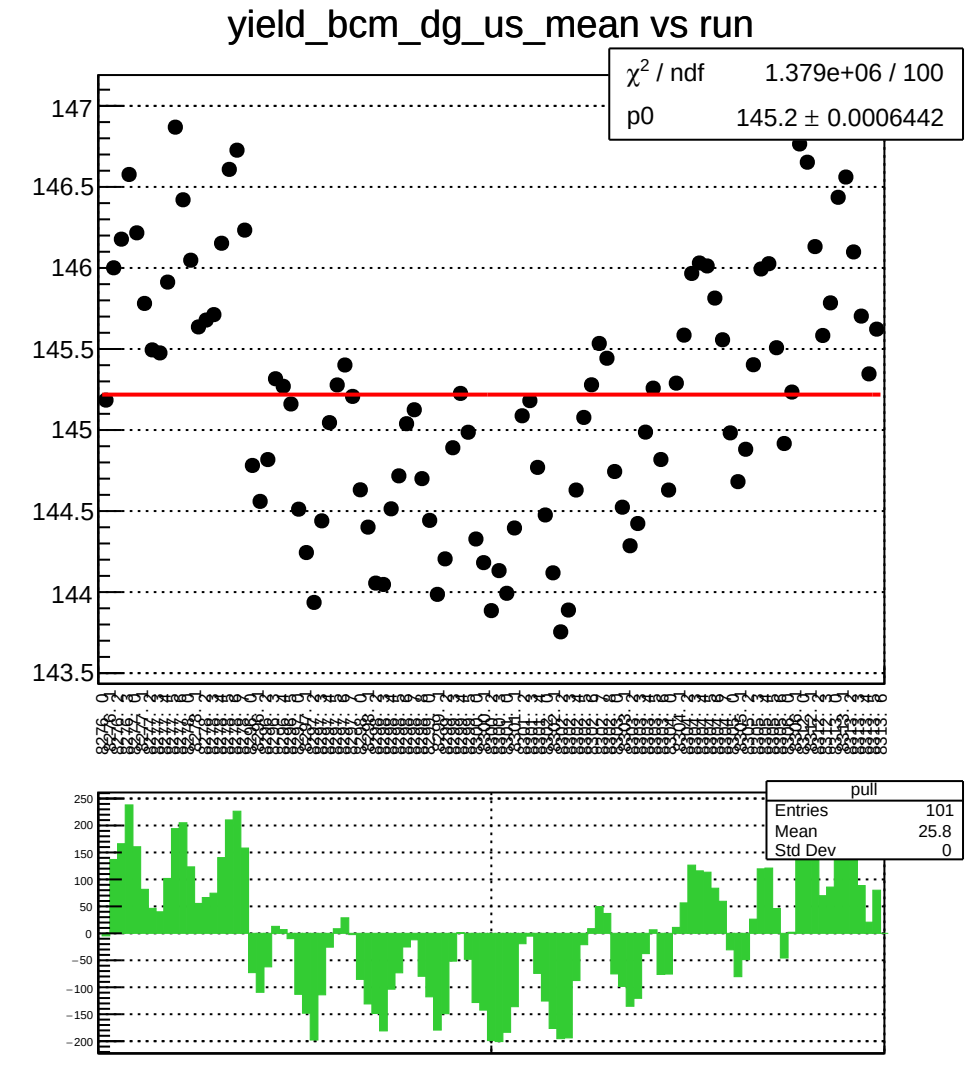

pull1D
Entries 101
Mean −2.953
Std Dev 4.42
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

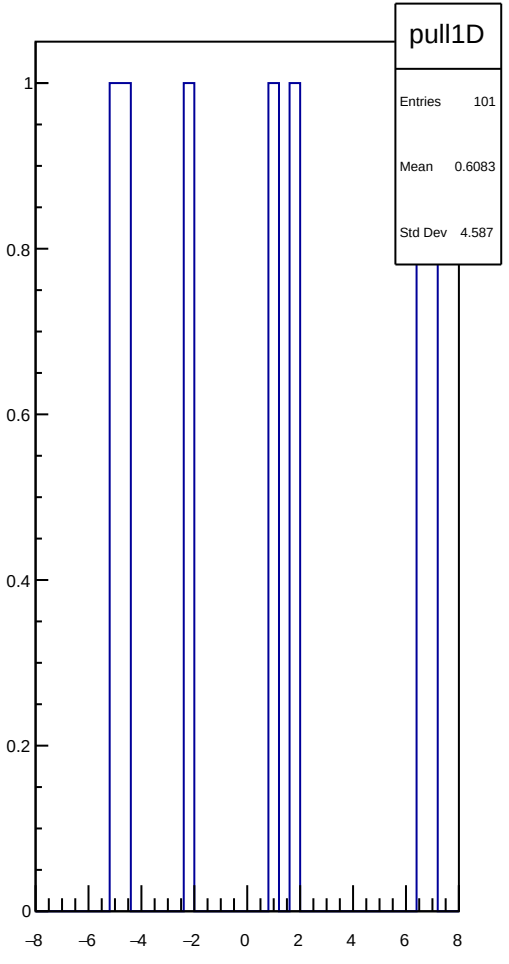

yield_bcm_an_ds3_rms vs run
χ² / ndf 1.102e+04 / 100
p0 0.6263 ± 0.0004525
0.8
0.75
0.7
0.65
0.6
0.55

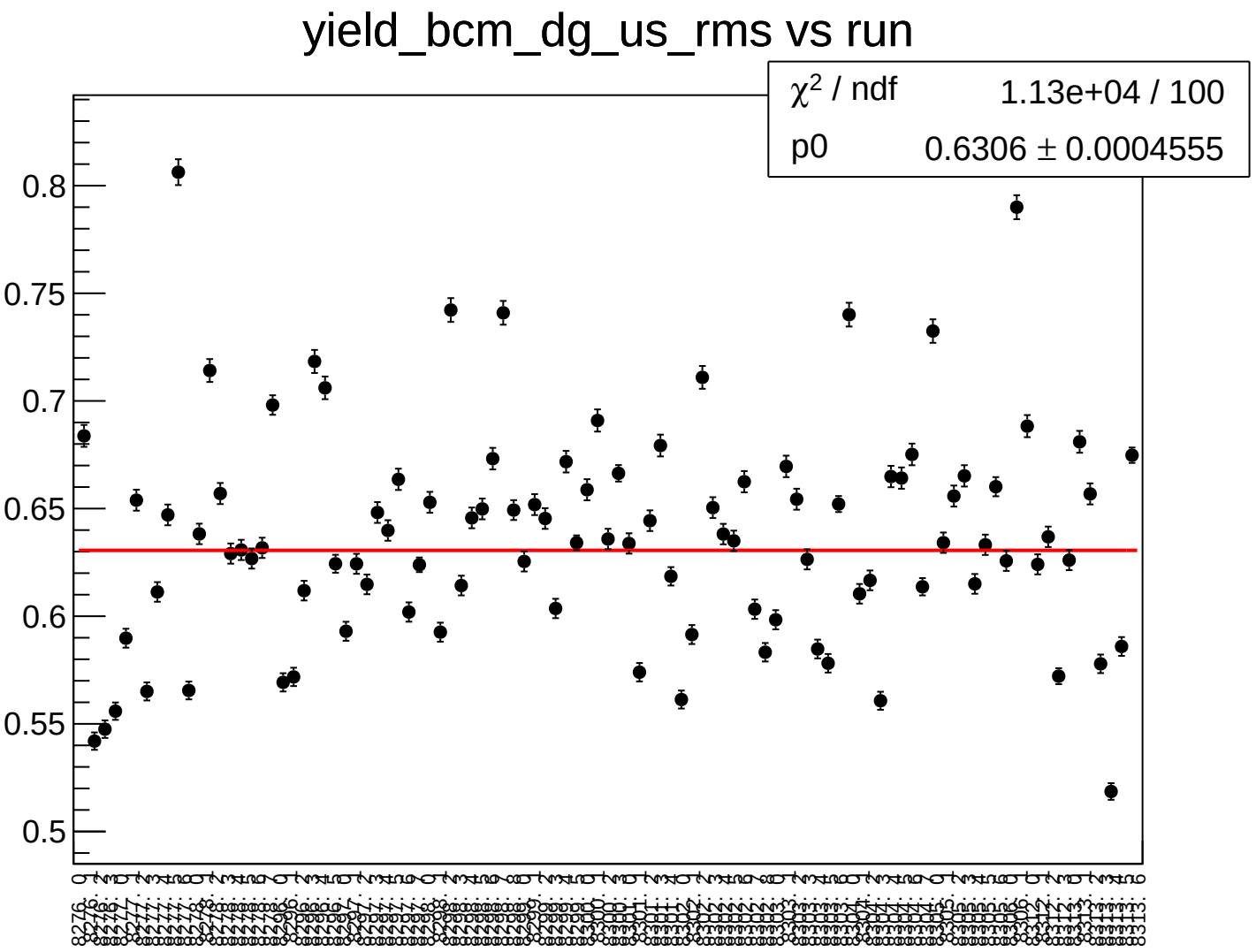

yield_bcm_an_us_mean vs run
χ² / ndf 8.624e+05 / 100
p0 145.1± 0.0006391
146.2
146
145.8
145.6
145.4
145.2
145
144.8
144.6
144.4
144.2
pull
Entries 101
Mean −10.63
Std Dev 0
200
150
100
50
0
−50
−100

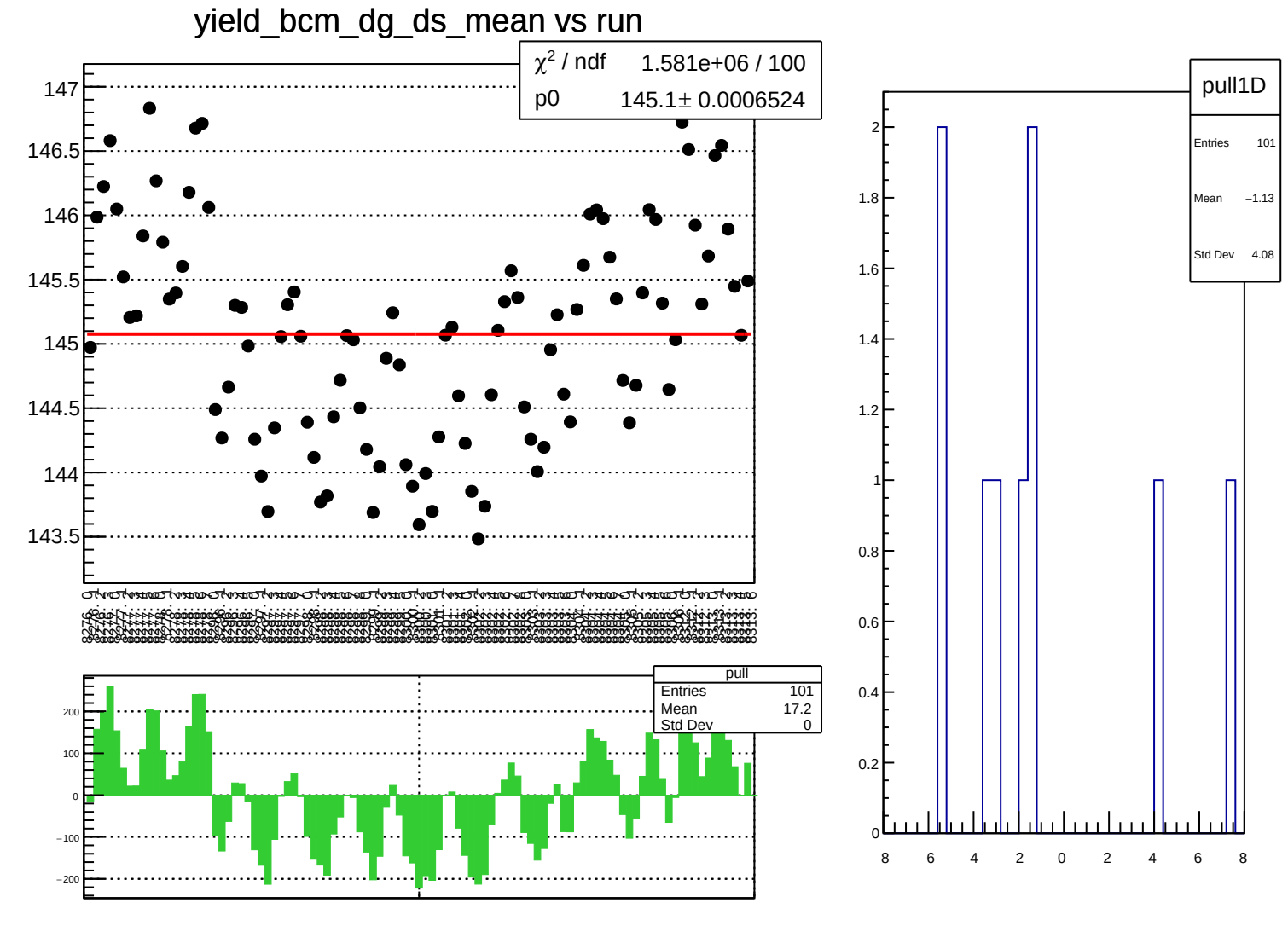

pull1D
Entries 101
Mean 2.768
Std Dev 5.634
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

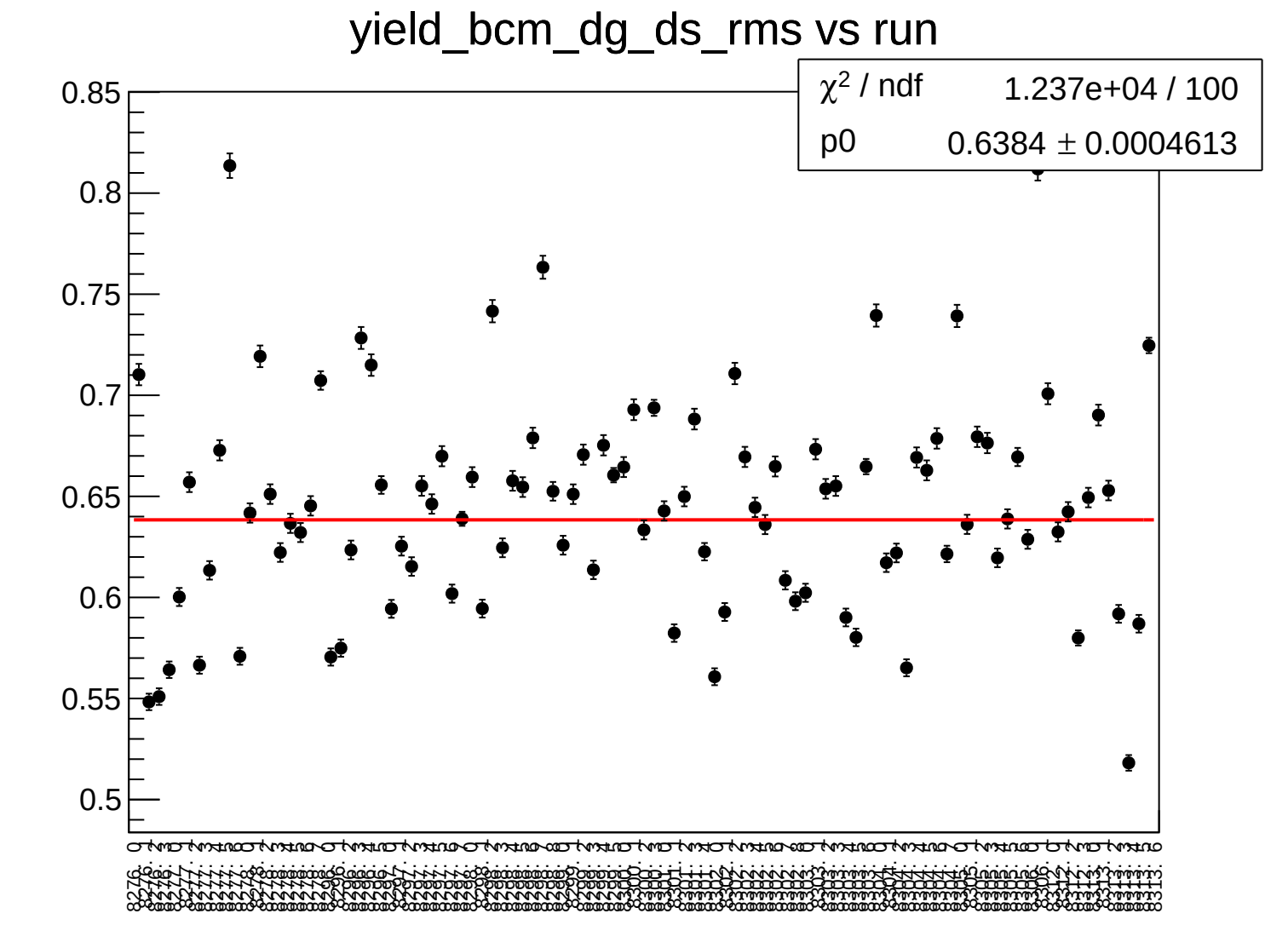

yield_bcm_an_us_rms vs run
χ² / ndf 1.104e+04 / 100
p0 0.6256 ± 0.0004519
0.8
0.75
0.7
0.65
0.6
0.55

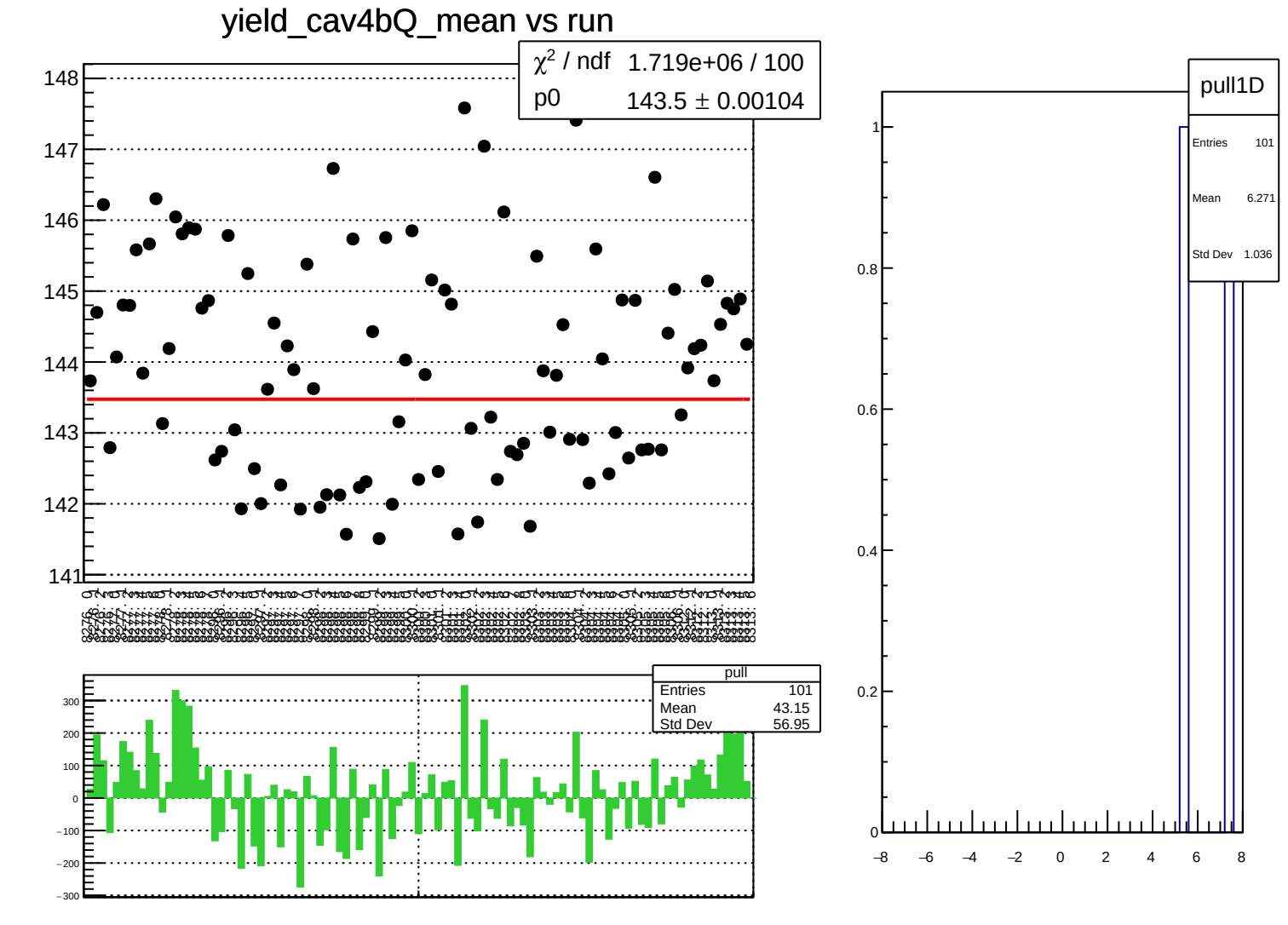

yield_bcm_dg_us_mean vs run
χ² / ndf 1.379e+06 / 100
p0 145.2 ± 0.0006442
147
146.5
146
145.5
145
144.5
144
143.5
pull
Entries 101
Mean 25.8
Std Dev 0
250
200
150
100
50
0
−50
−100
−150
−200

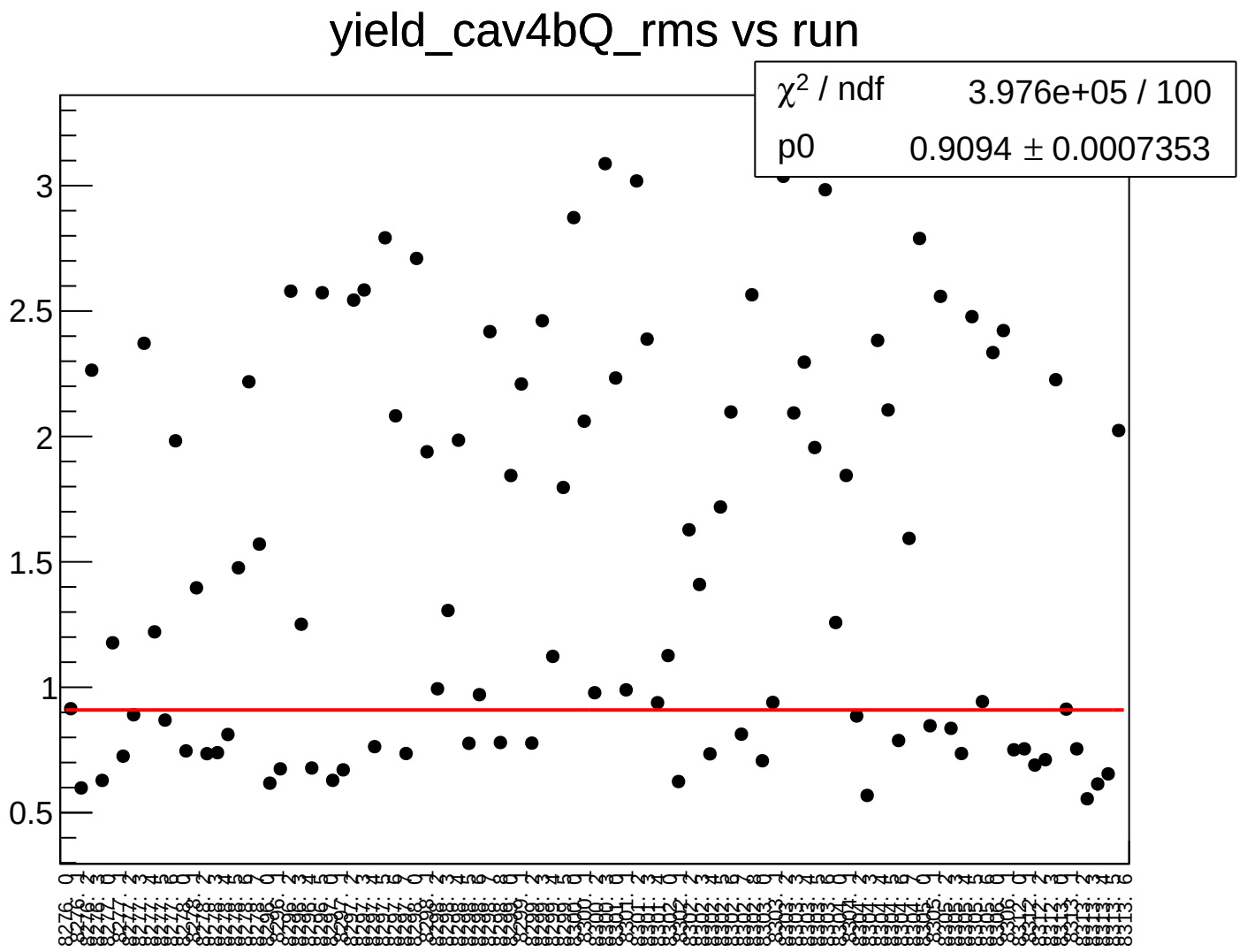

pull1D
Entries 101
Mean 0.6083
Std Dev 4.587
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

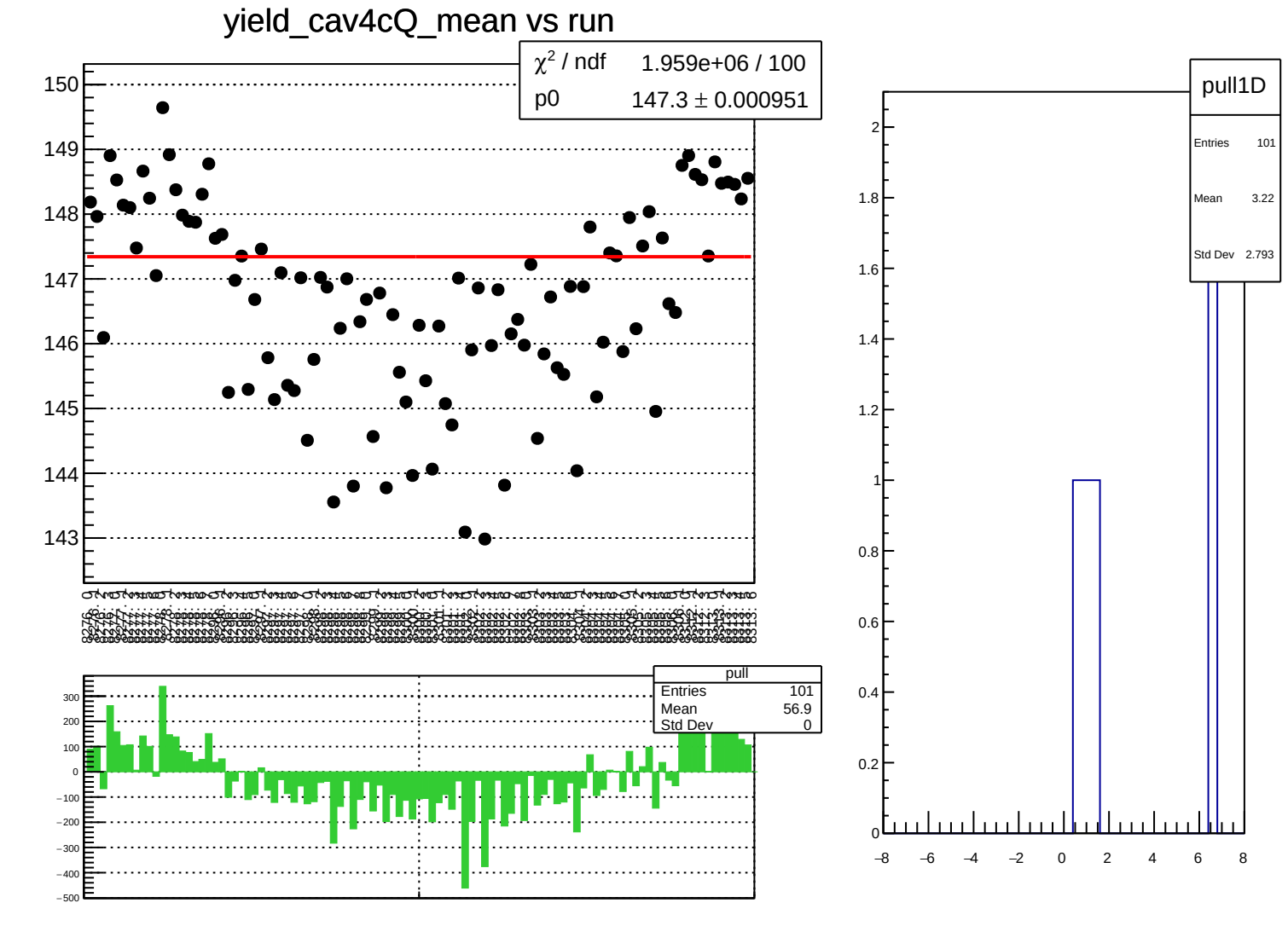

yield_bcm_dg_us_rms vs run
χ² / ndf 1.13e+04 / 100
p0 0.6306 ± 0.0004555
0.8
0.75
0.7
0.65
0.6
0.55
0.5

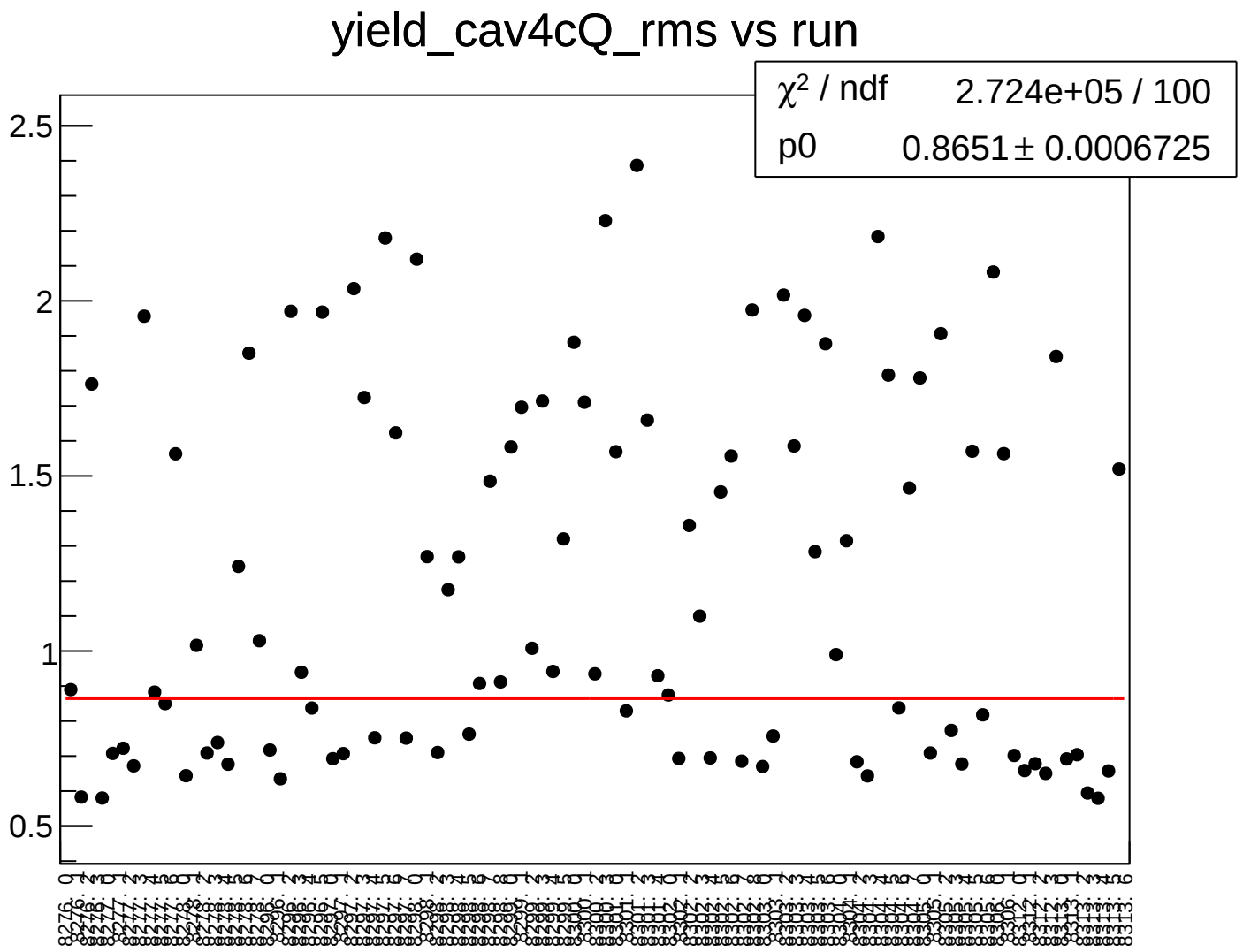

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.581e+06 / 100
p0 145.1± 0.0006524
147
146.5
146
145.5
145
144.5
144
143.5
pull
Entries 101
Mean 17.2
Std Dev 0
200
100
0
−100
−200
pull1D
Entries 101
Mean −1.13
Std Dev 4.08
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

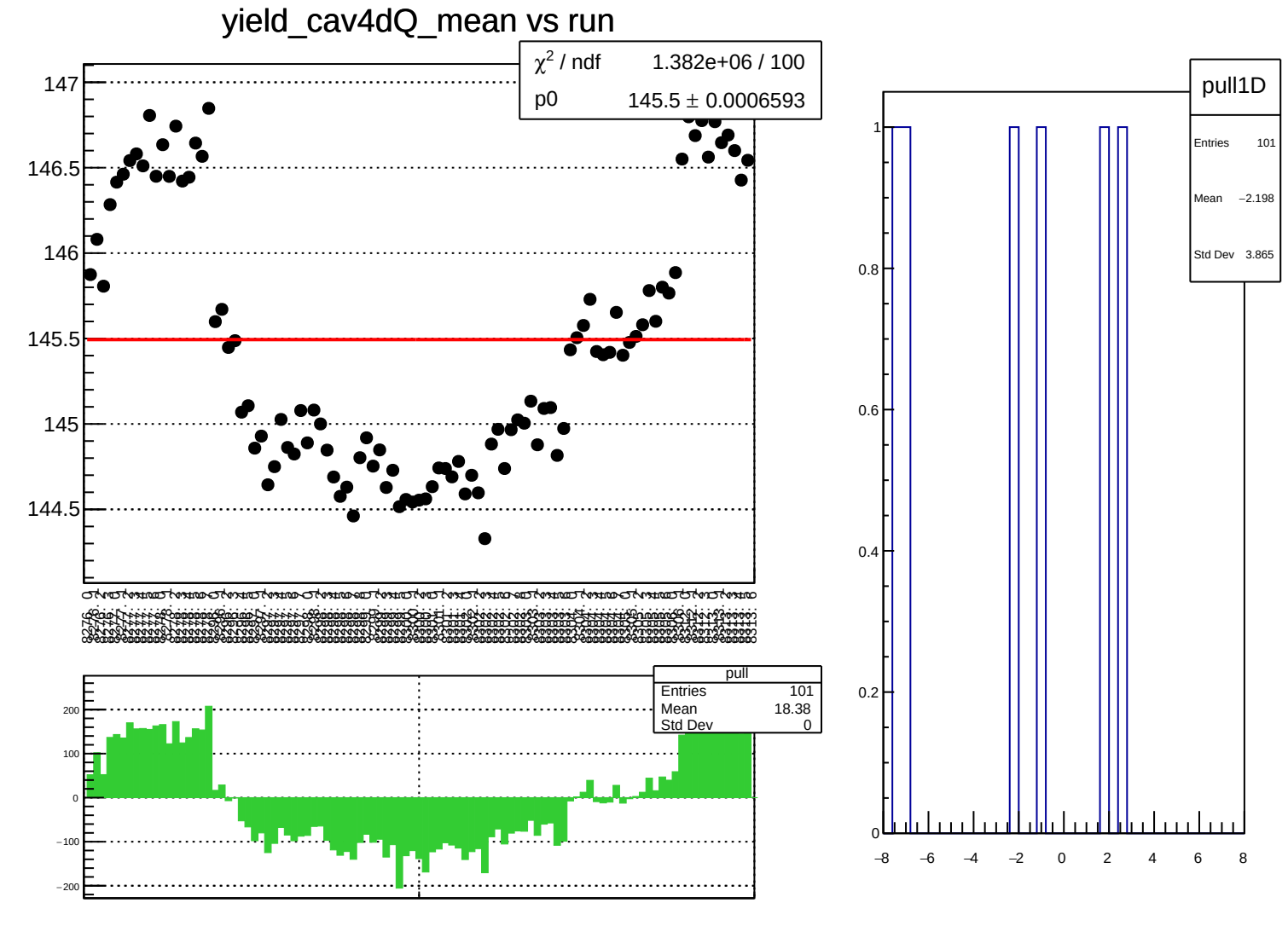

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.237e+04 / 100
p0 0.6384 ± 0.0004613
0.85
0.8
0.75
0.7
0.65
0.6
0.55
0.5

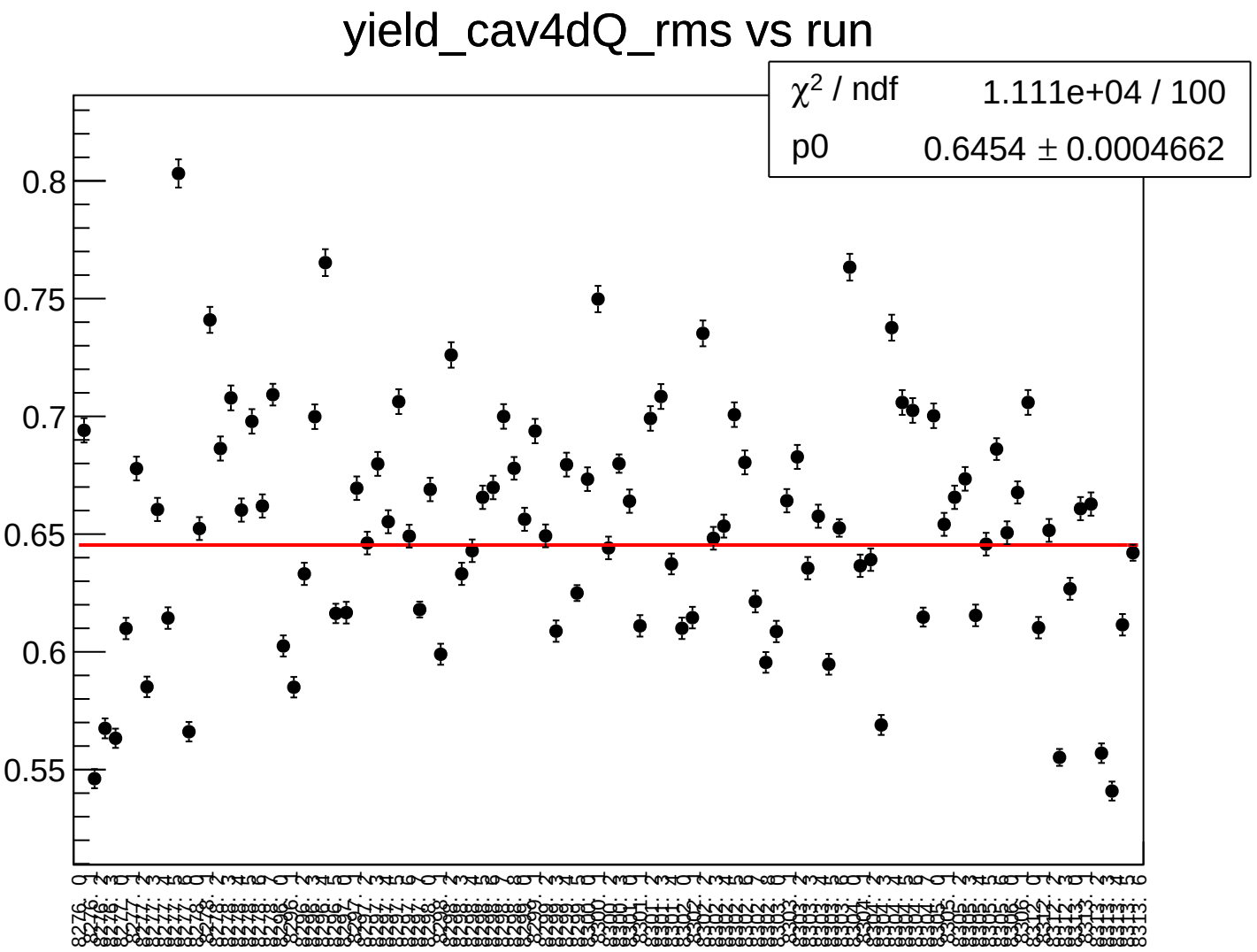

yield_cav4bQ_mean vs run
χ² / ndf 1.719e+06 / 100
p0 143.5 ± 0.00104
148
147
146
145
144
143
142
141
pull
Entries 101
Mean 43.15
Std Dev 56.95
300
200
100
0
−100
−200
−300
pull1D
Entries 101
Mean 6.271
Std Dev 1.036
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

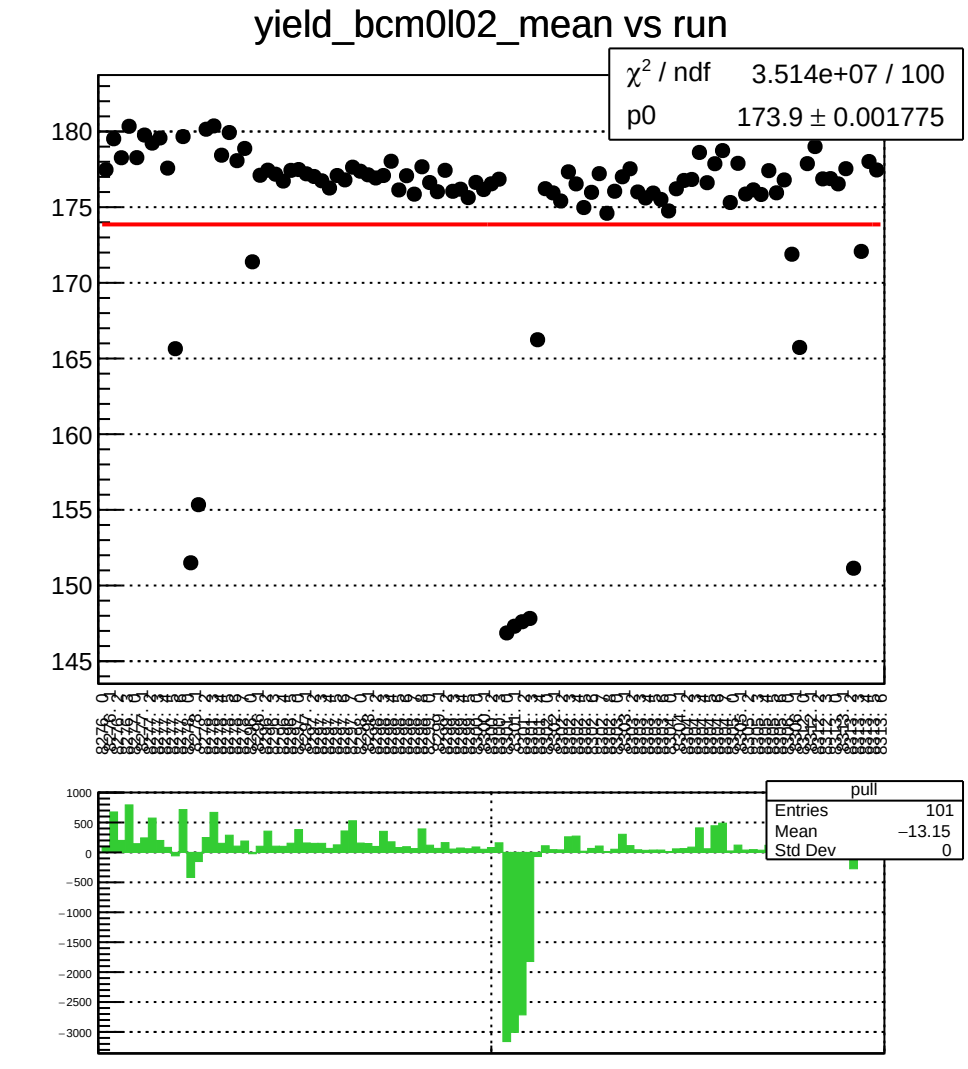

yield_cav4bQ_rms vs run
χ² / ndf 3.976e+05 / 100
p0 0.9094 ± 0.0007353
3
2.5
2
1.5
1
0.5

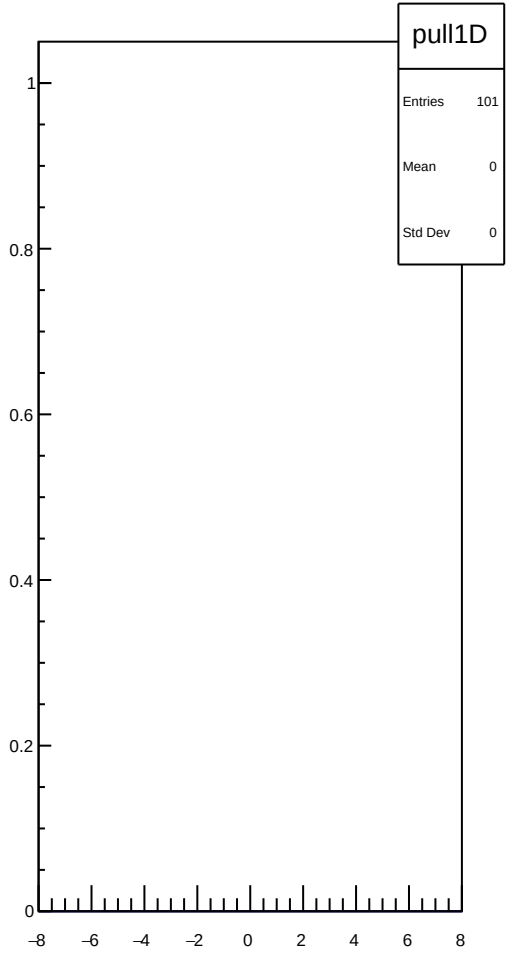

yield_cav4cQ_mean vs run
χ² / ndf 1.959e+06 / 100
p0 147.3 ± 0.000951
150
149
148
147
146
145
144
143
pull
Entries 101
Mean 56.9
Std Dev 0
300
200
100
0
−100
−200
−300
−400
−500
pull1D
Entries 101
Mean 3.22
Std Dev 2.793
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

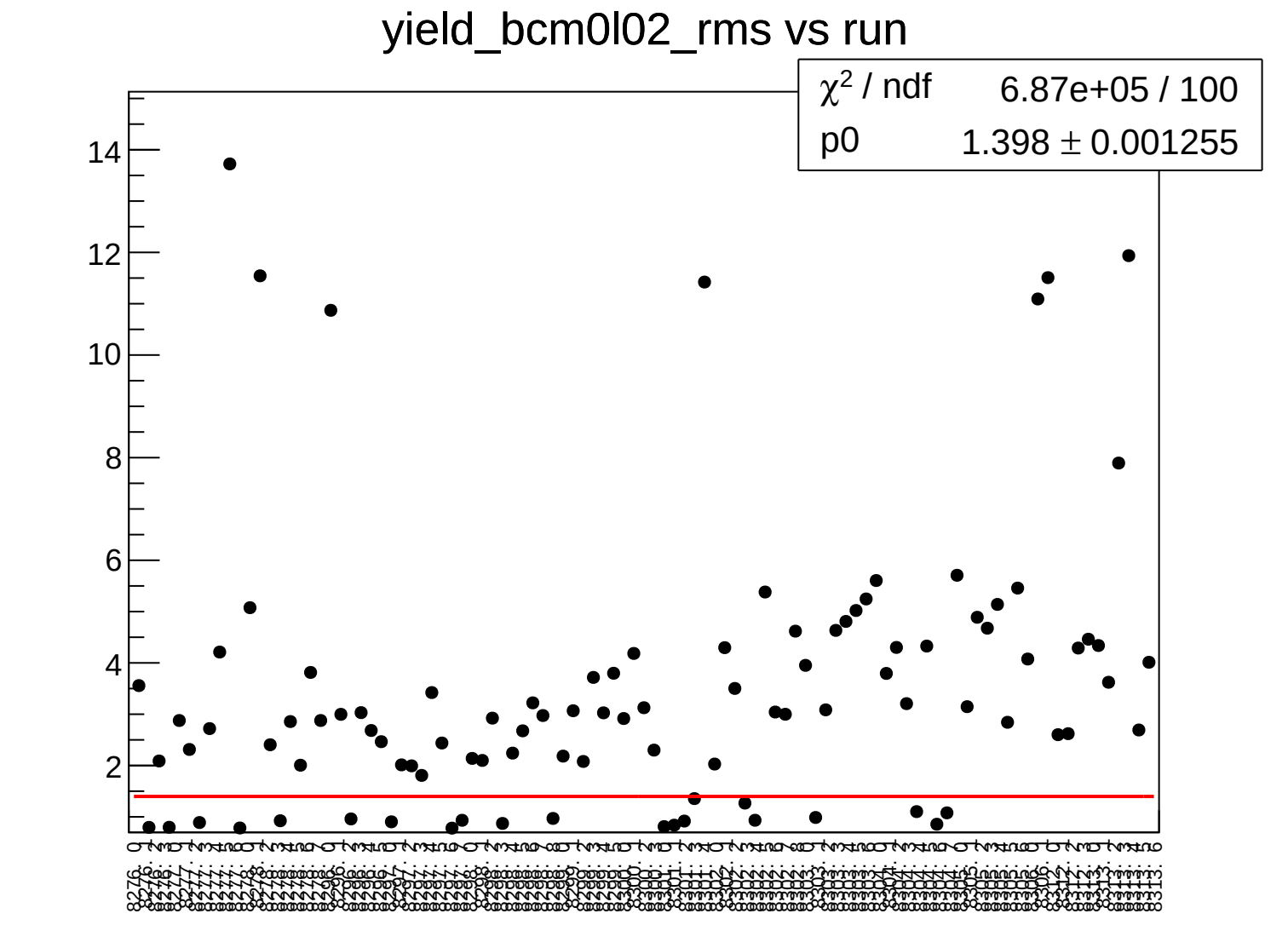

yield_cav4cQ_rms vs run
χ² / ndf 2.724e+05 / 100
p0 0.8651 ± 0.0006725
2.5
2
1.5
1
0.5

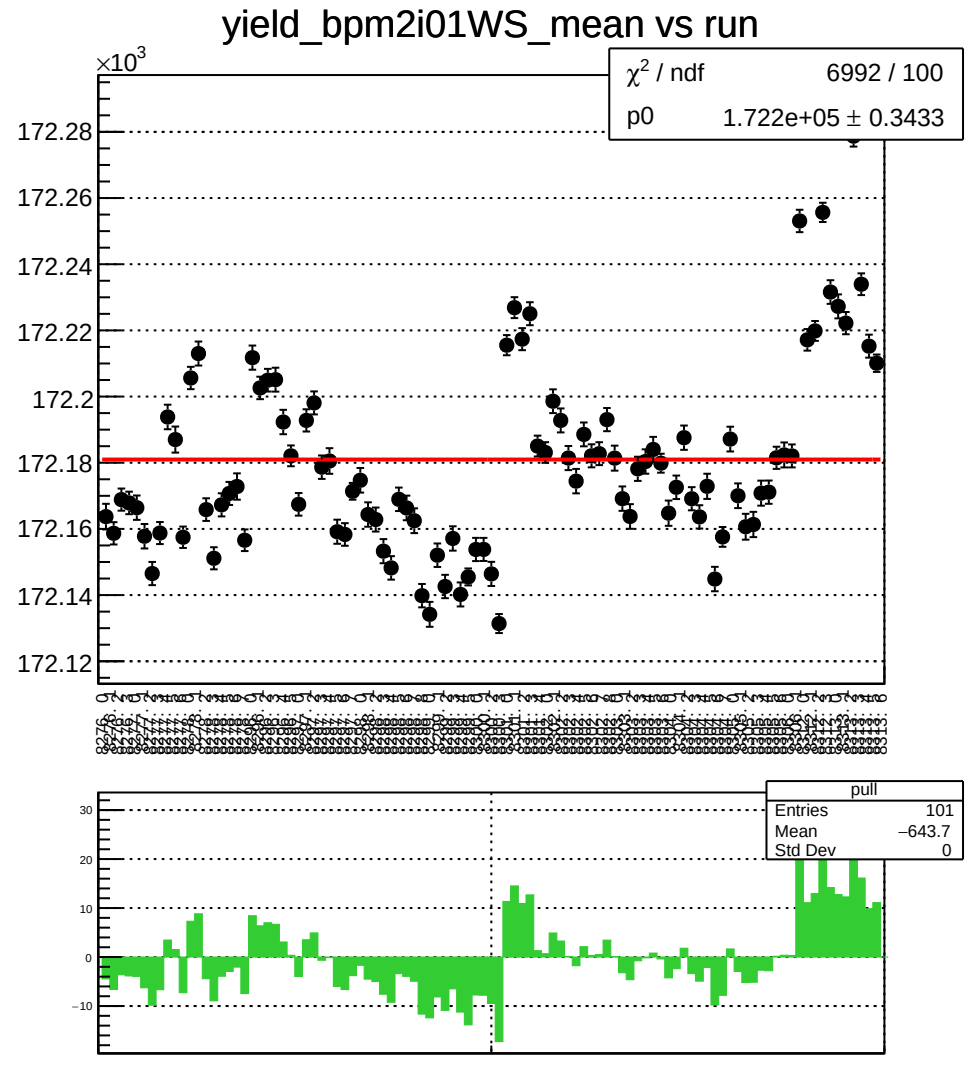

yield_cav4dQ_mean vs run
χ² / ndf 1.382e+06 / 100
p0 145.5 ± 0.0006593
147
146.5
146
145.5
145
144.5
pull
Entries 101
Mean 18.38
Std Dev 0
200
100
0
−100
−200
pull1D
Entries 101
Mean −2.198
Std Dev 3.865
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

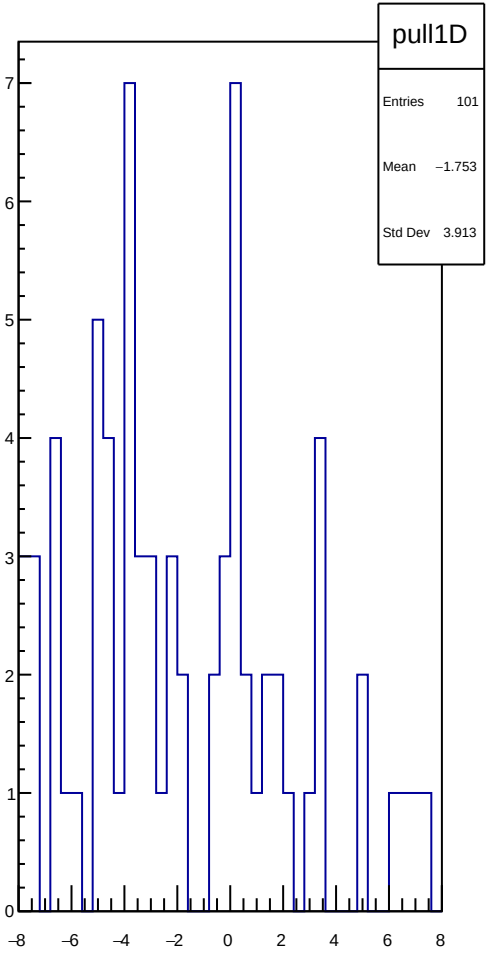

yield_cav4dQ_rms vs run
χ² / ndf 1.111e+04 / 100
p0 0.6454 ± 0.0004662
0.8
0.75
0.7
0.65
0.6
0.55

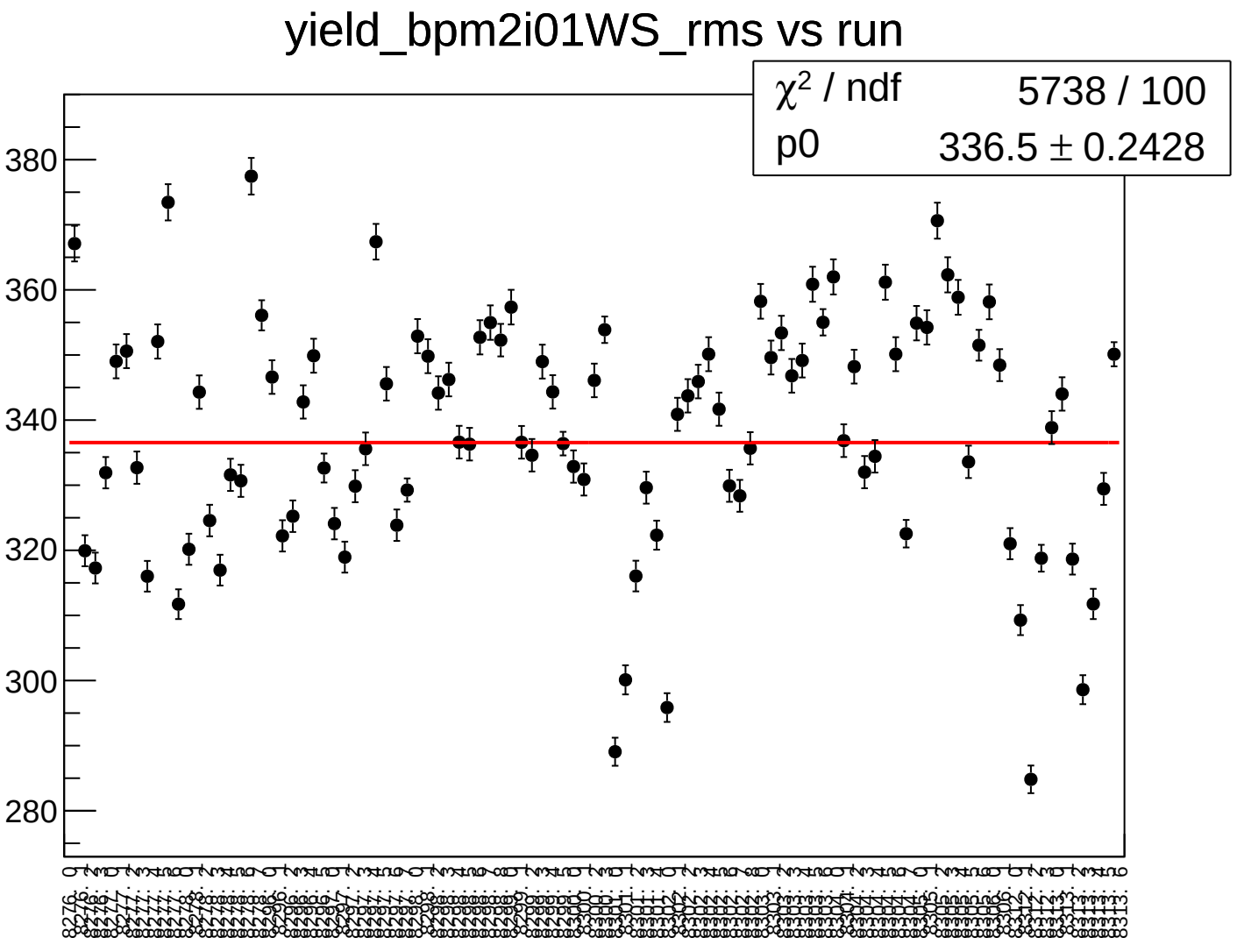

yield_bcm0l02_mean vs run
χ² / ndf 3.514e+07 / 100
p0 173.9 ± 0.001775
180
175
170
165
160
155
150
145
pull
Entries 101
Mean −13.15
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000
−2500
−3000

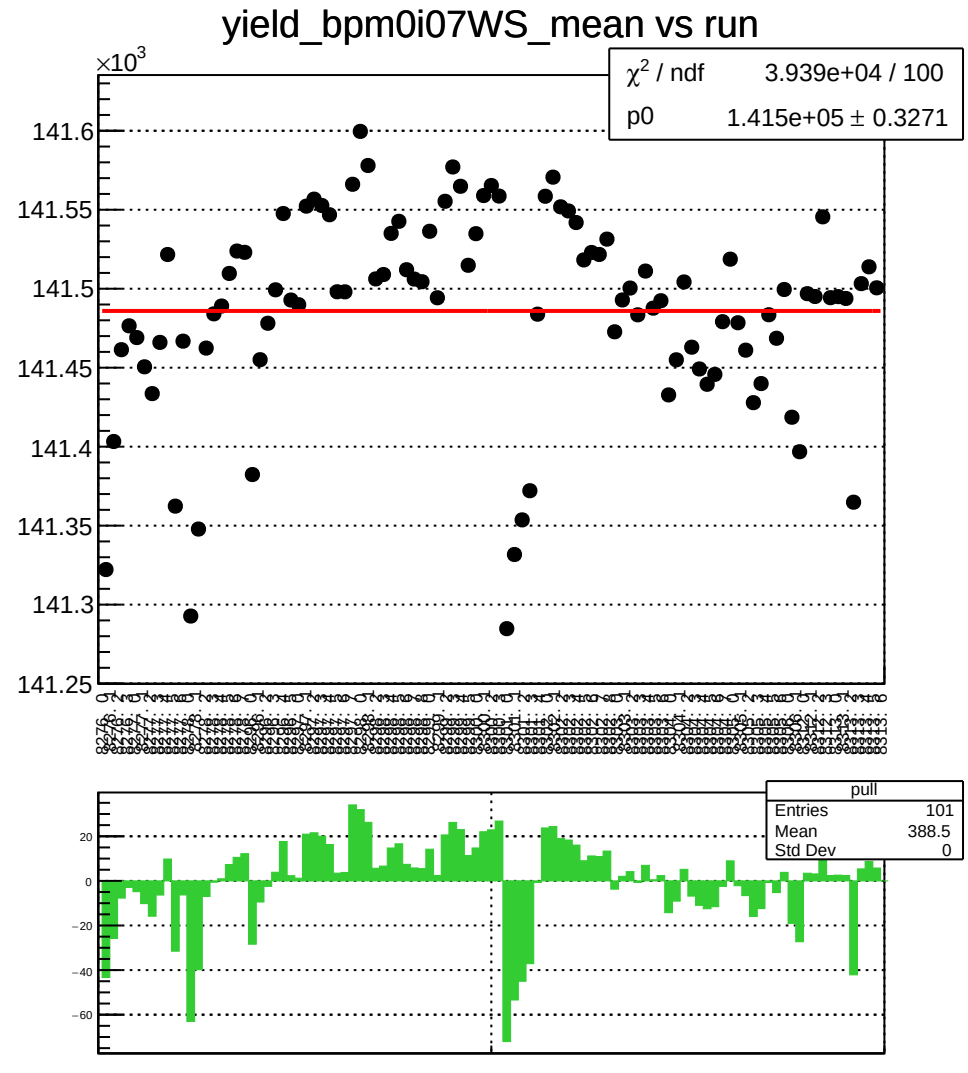

pull1D
Entries 101
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

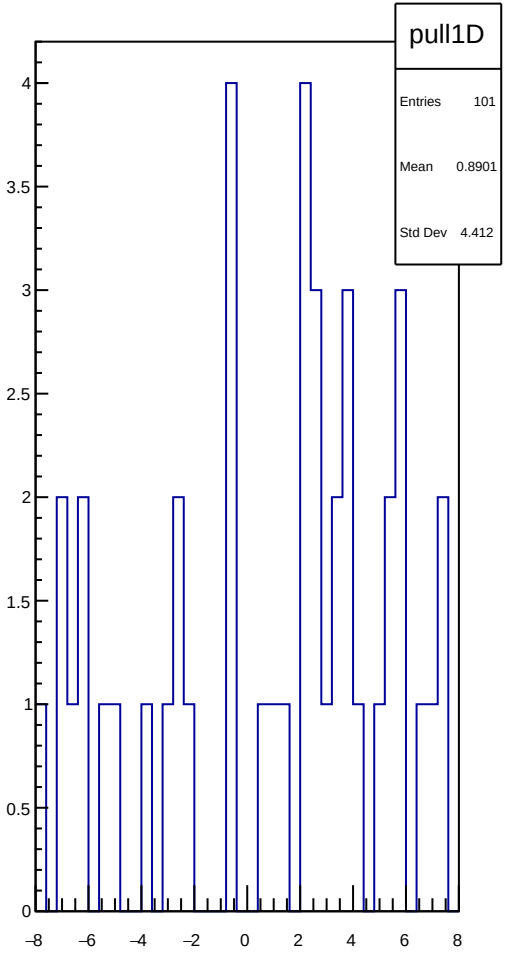

yield_bcm0l02_rms vs run
χ^2 / ndf 6.87e+05 / 100
p0 1.398 ± 0.001255
14
12
10
8
6
4
2

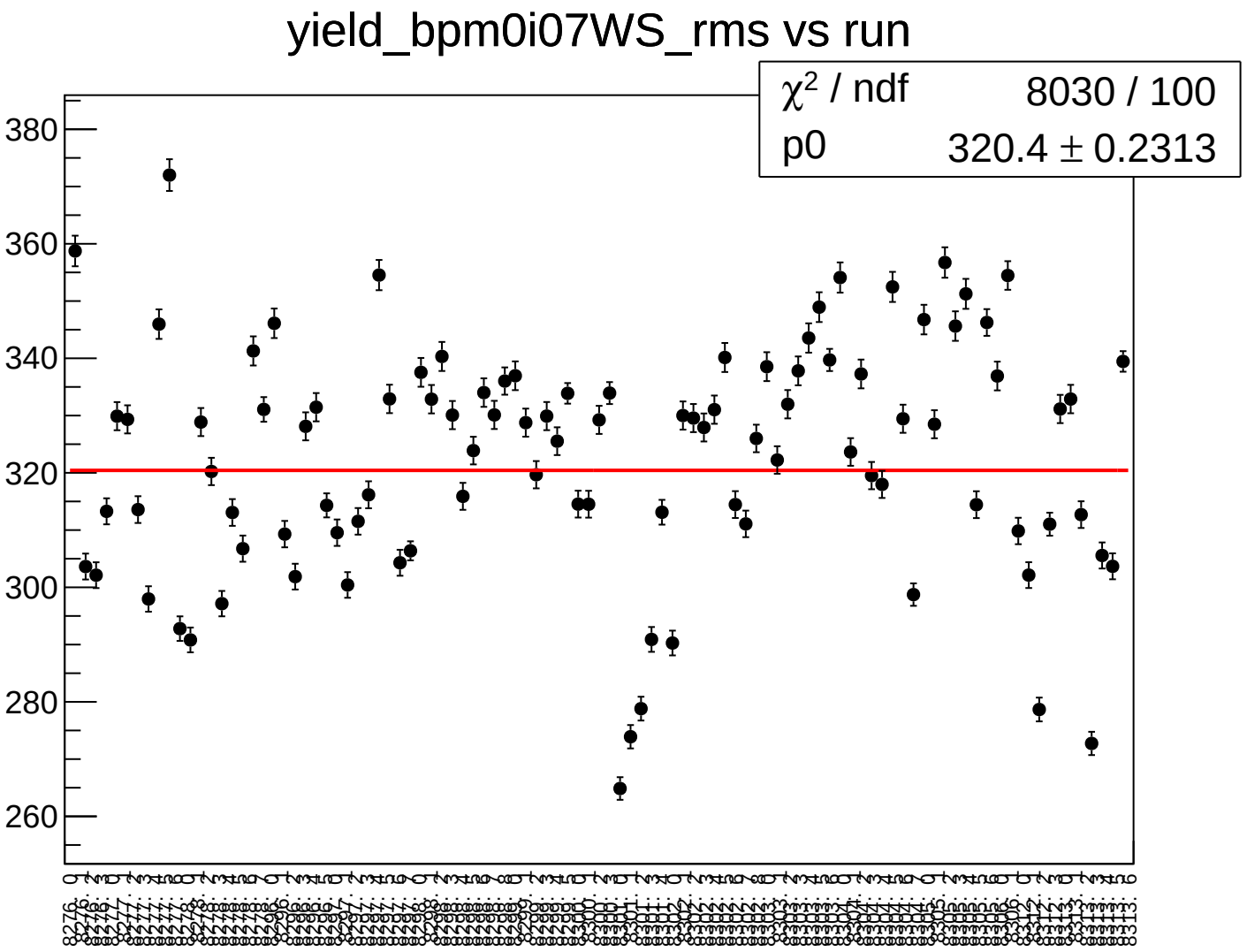

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 6992 / 100
p0 1.722e+05 ± 0.3433
172.28
172.26
172.24
172.22
172.2
172.18
172.16
172.14
172.12
pull
Entries 101
Mean −643.7
Std Dev 0
30
20
10
0
−10

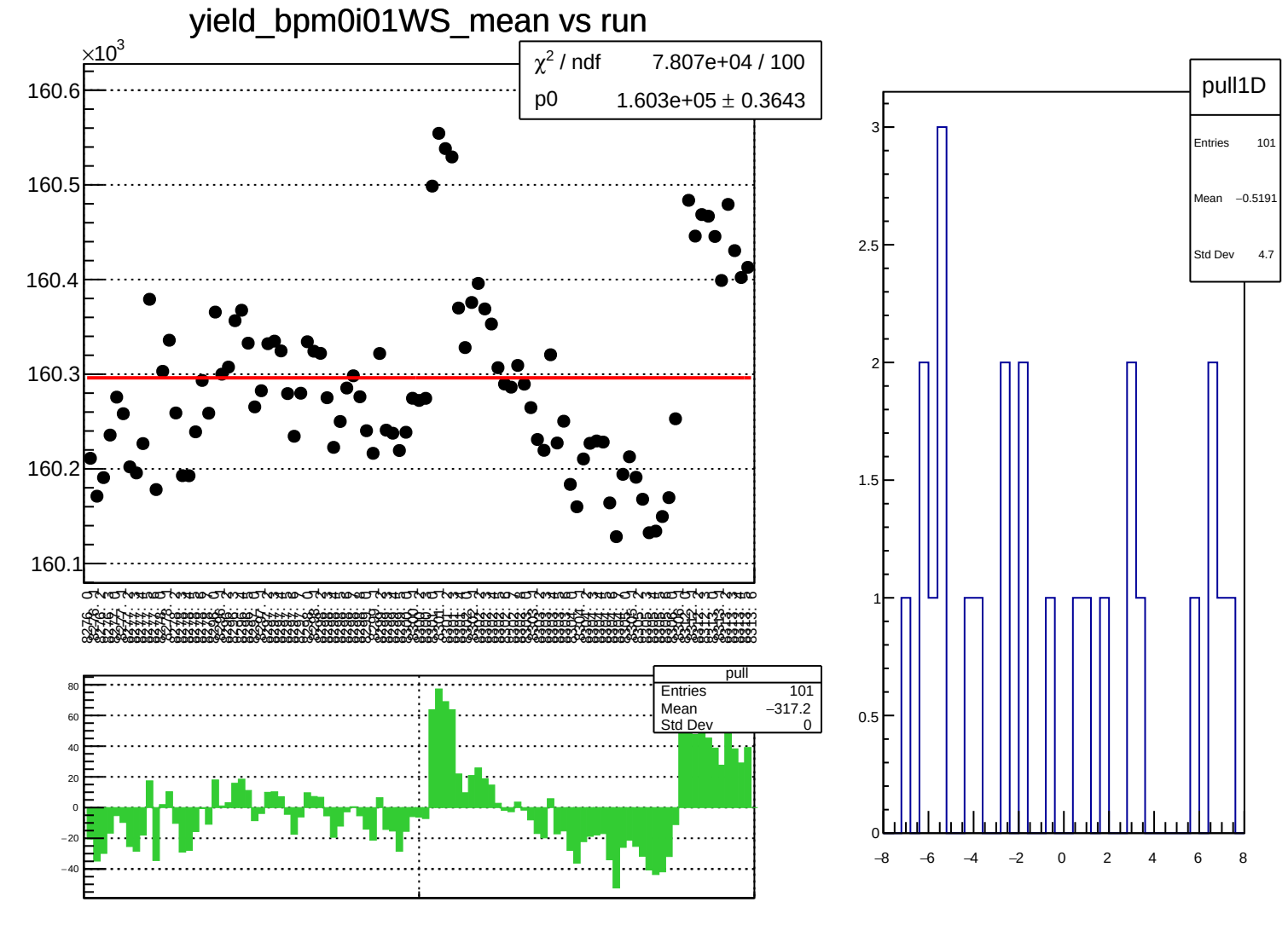

pull1D
Entries 101
Mean −1.753
Std Dev 3.913
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

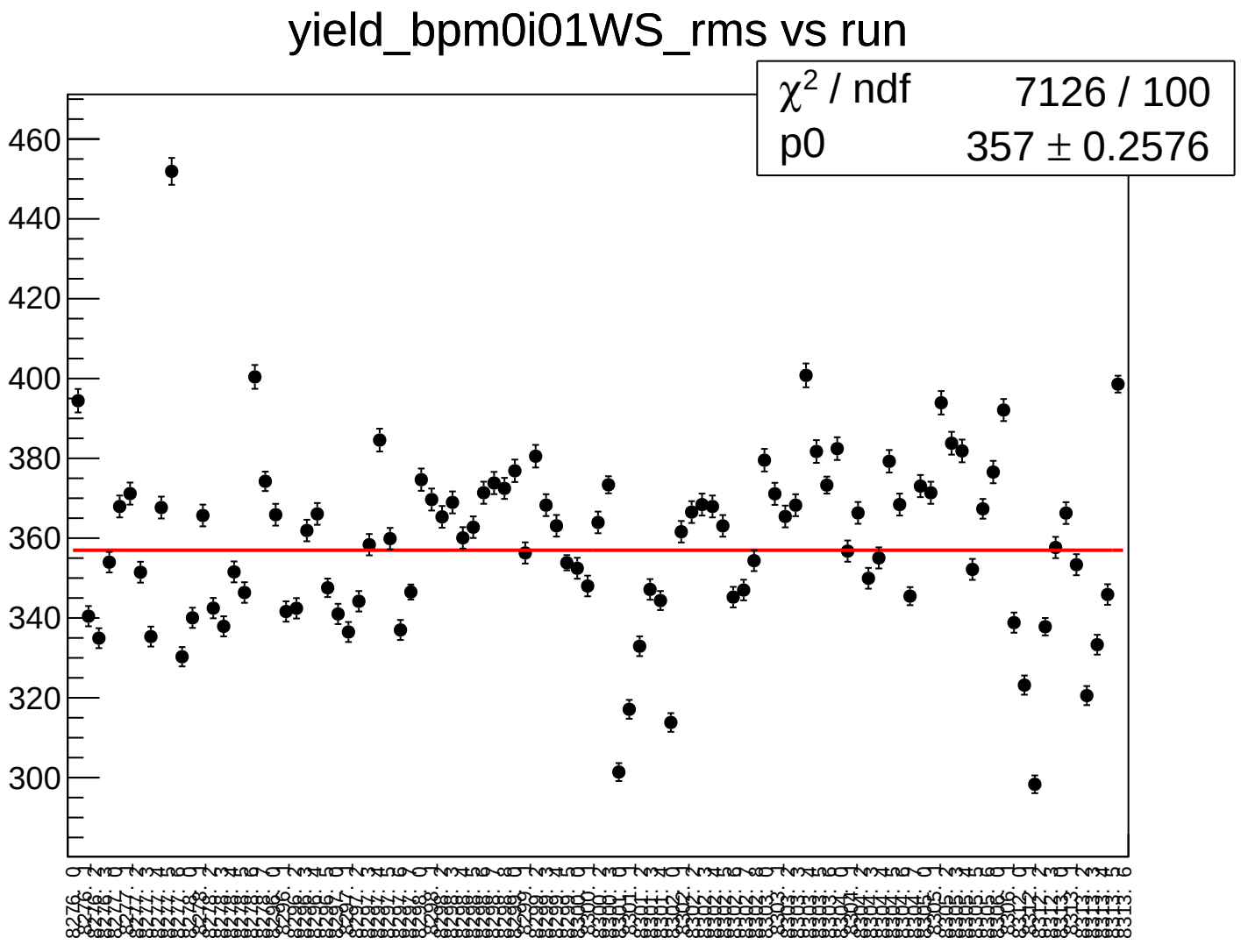

yield_bpm2i01WS_rms vs run
χ² / ndf 5738 / 100
p0 336.5 ± 0.2428
380
360
340
320
300
280

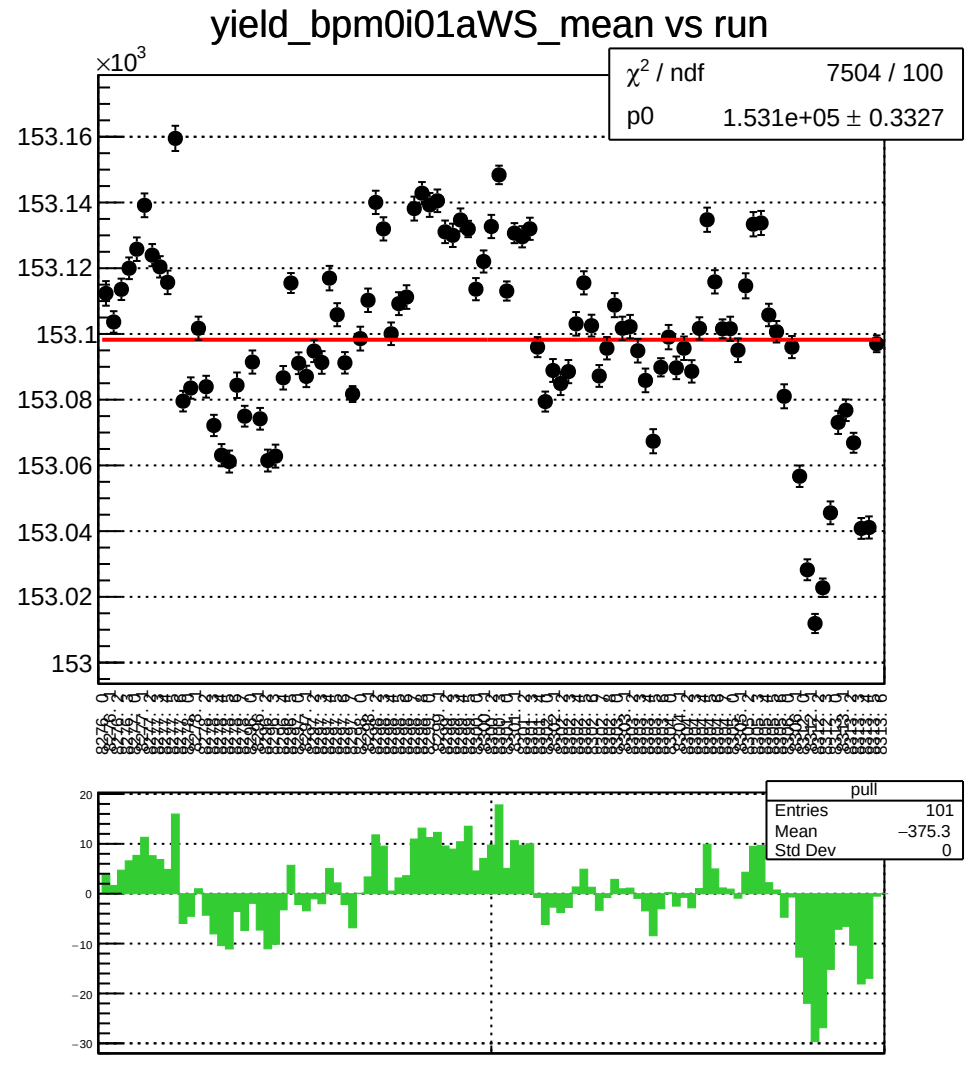

yield_bpm0i07WS_mean vs run
×10^3
χ^2 / ndf 3.939e+04 / 100
p0 1.415e+05 ± 0.3271
141.6
141.55
141.5
141.45
141.4
141.35
141.3
141.25
pull
Entries 101
Mean 388.5
Std Dev 0
20
0
−20
−40
−60

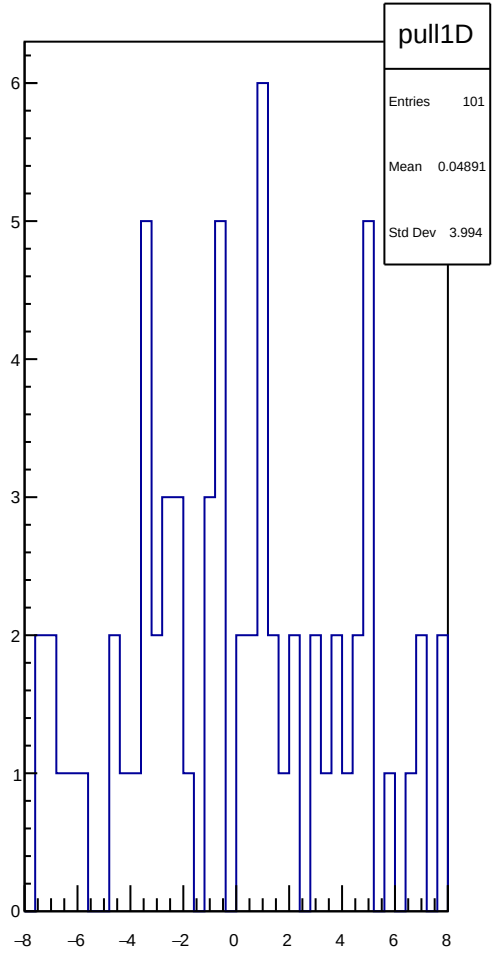

pull1D
Entries 101
Mean 0.8901
Std Dev 4.412
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

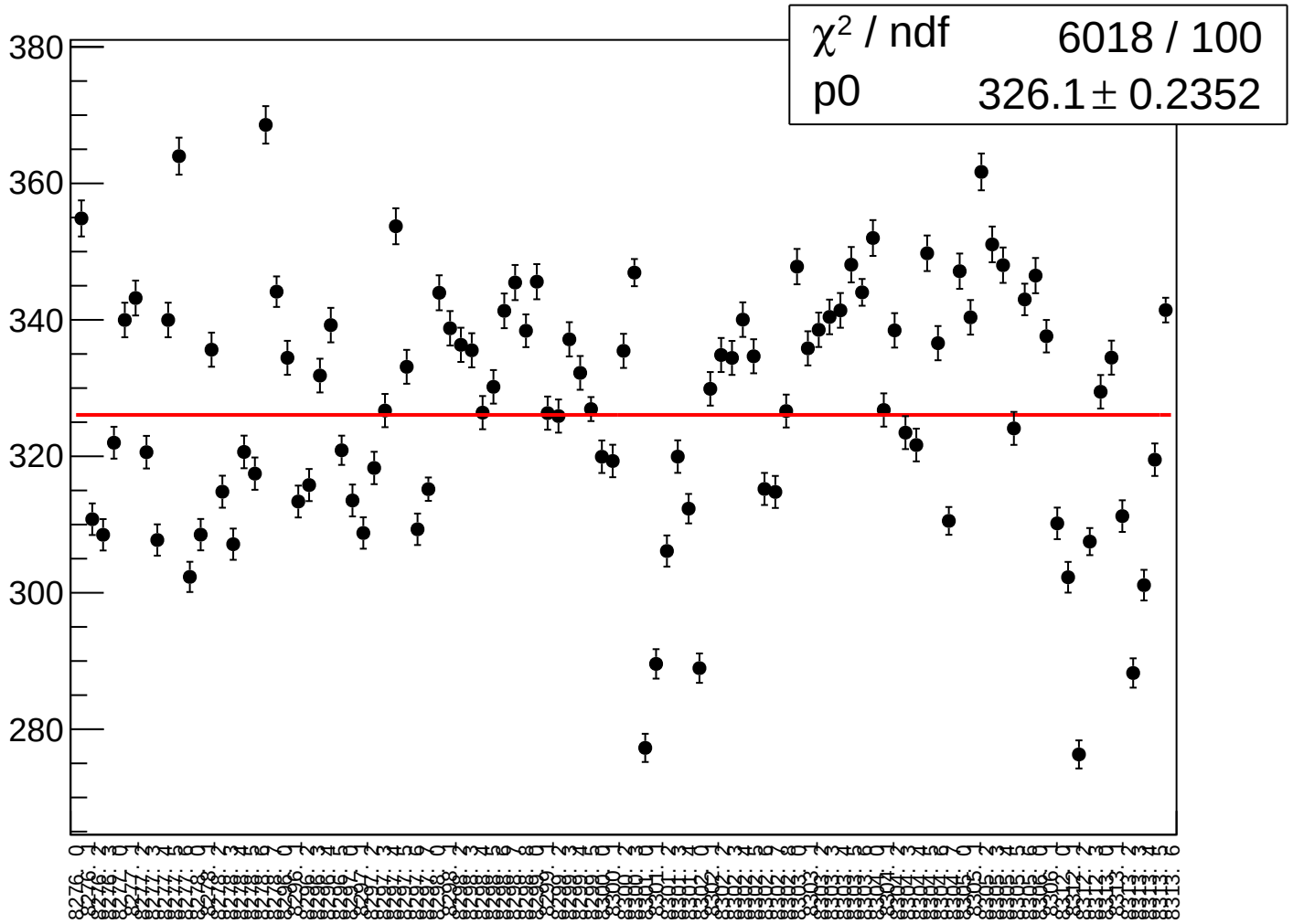

yield_bpm0i07WS_rms vs run
χ² / ndf 8030 / 100
p0 320.4 ± 0.2313
380
360
340
320
300
280
260

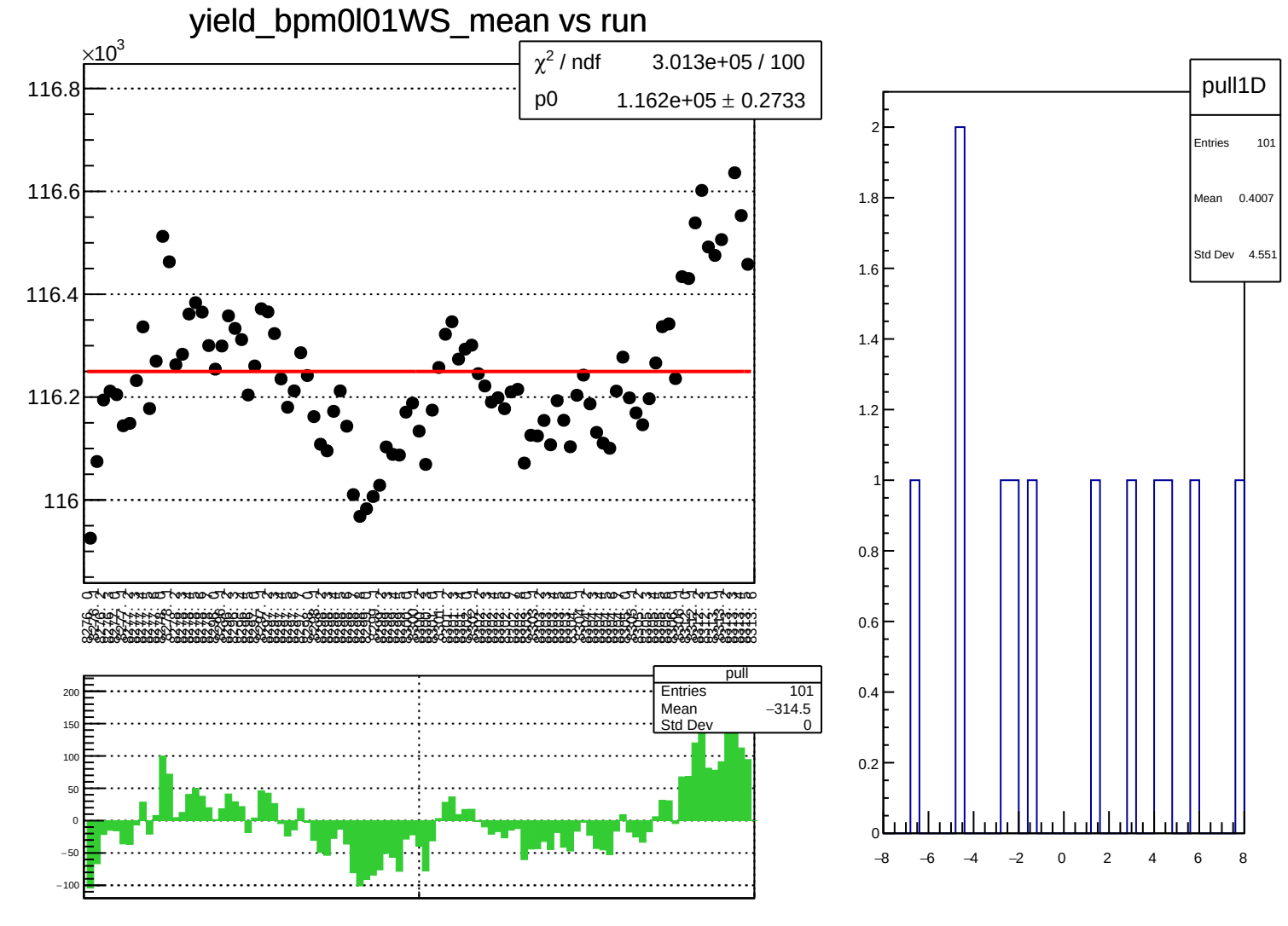

yield_bpm0i01WS_mean vs run
×10^3
χ² / ndf 7.807e+04 / 100
p0 1.603e+05 ± 0.3643
160.6
160.5
160.4
160.3
160.2
160.1
pull
Entries 101
Mean −317.2
Std Dev 0
80
60
40
20
0
−20
−40
pull1D
Entries 101
Mean −0.5191
Std Dev 4.7
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

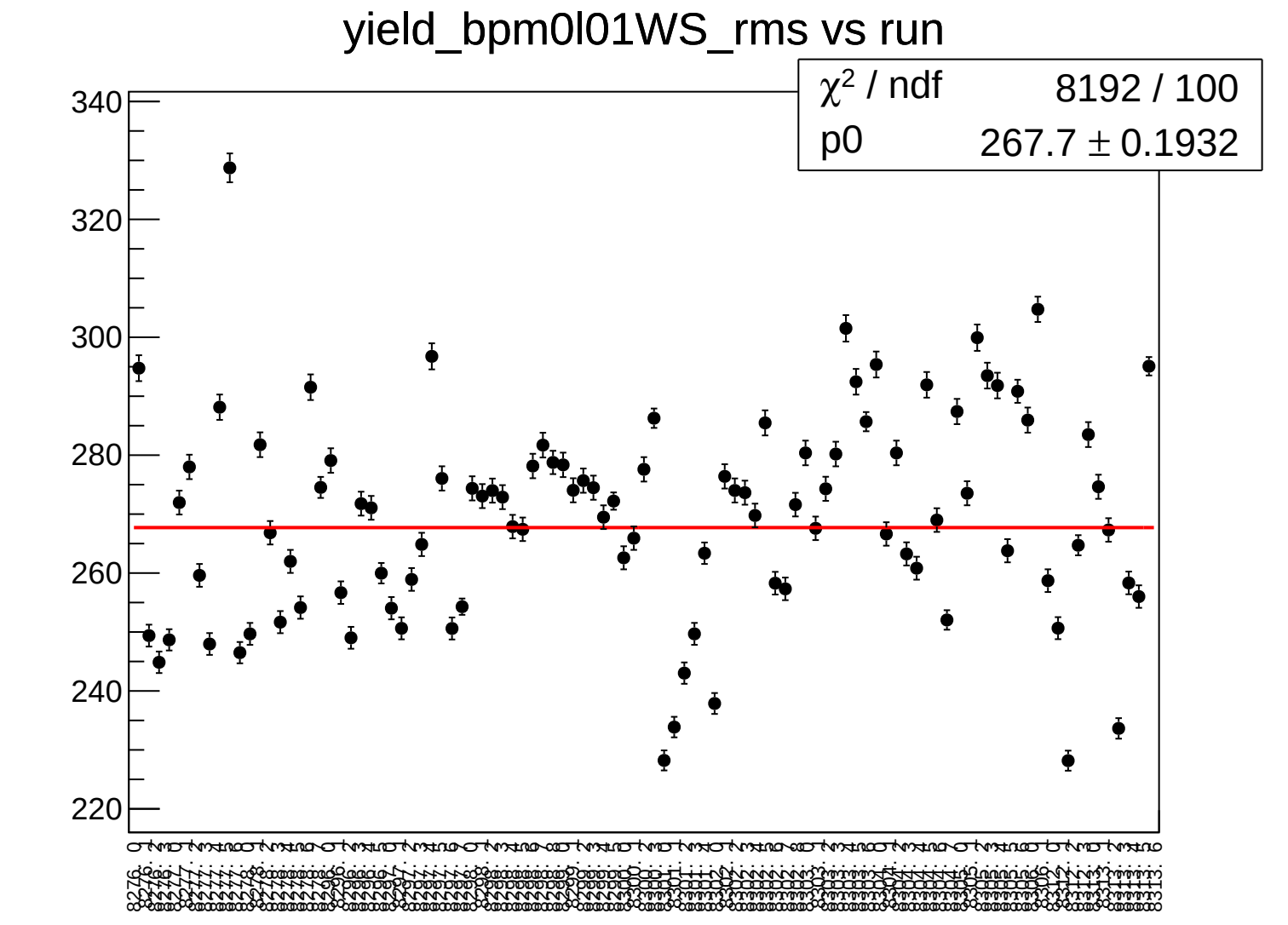

yield_bpm0i01WS_rms vs run
χ² / ndf 7126 / 100
p0 357 ± 0.2576
460
440
420
400
380
360
340
320
300

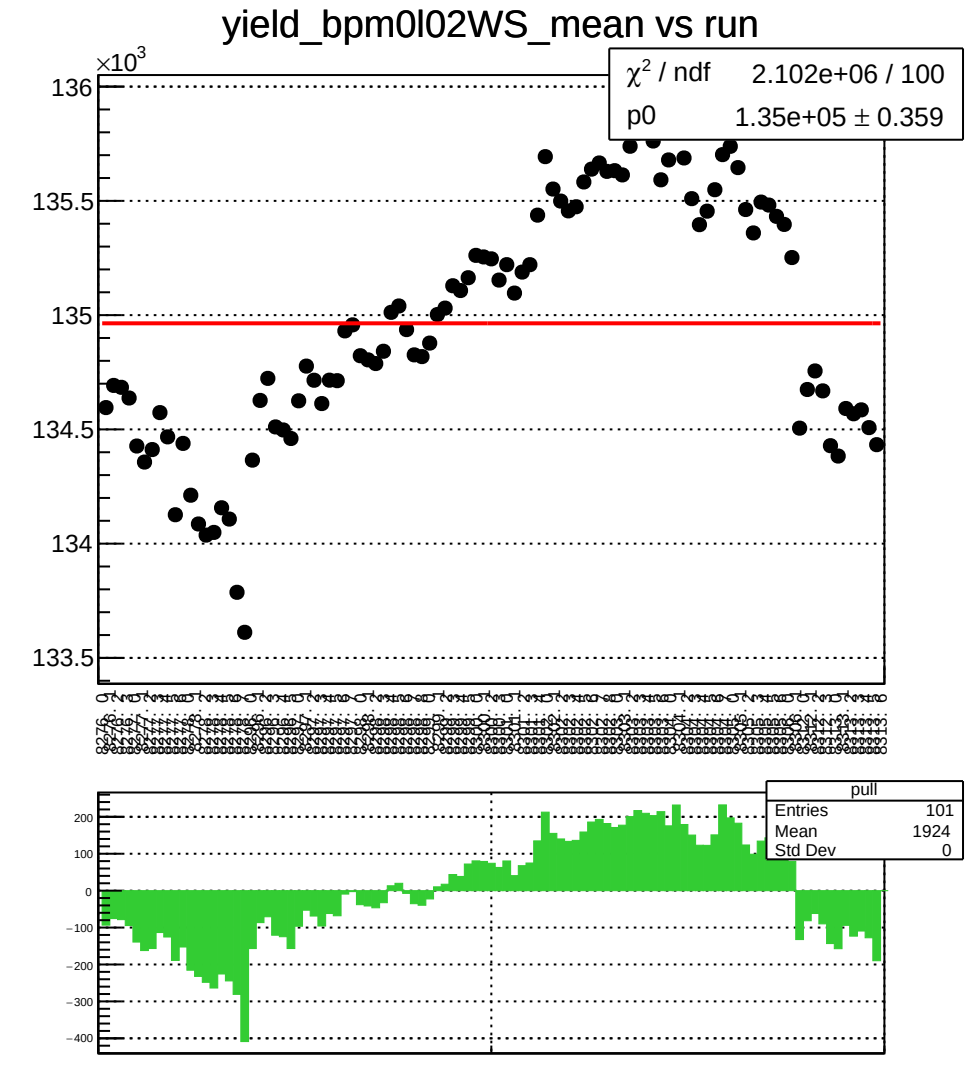

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 7504 / 100
p0 1.531e+05 ± 0.3327
153.16
153.14
153.12
153.1
153.08
153.06
153.04
153.02
153
pull
Entries 101
Mean −375.3
Std Dev 0
20
10
0
−10
−20
−30

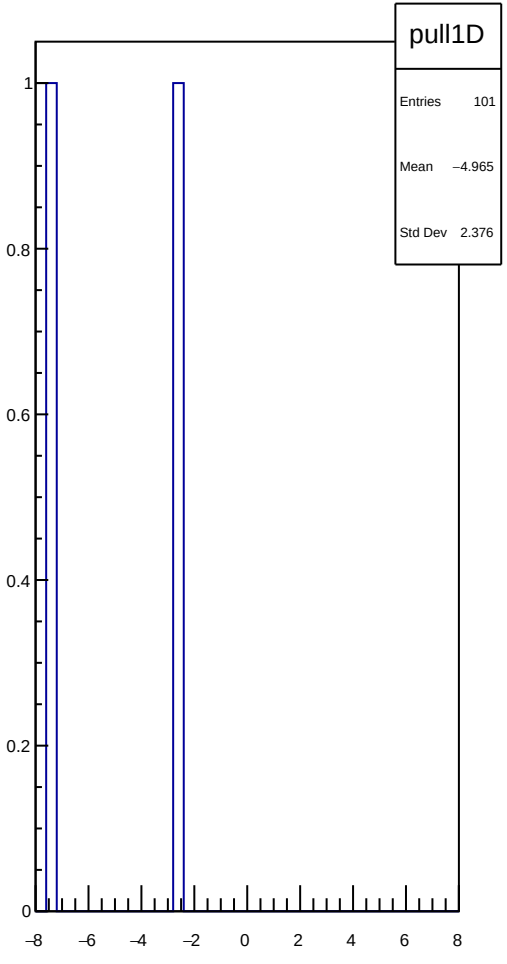

pull1D
Entries 101
Mean 0.04891
Std Dev 3.994
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

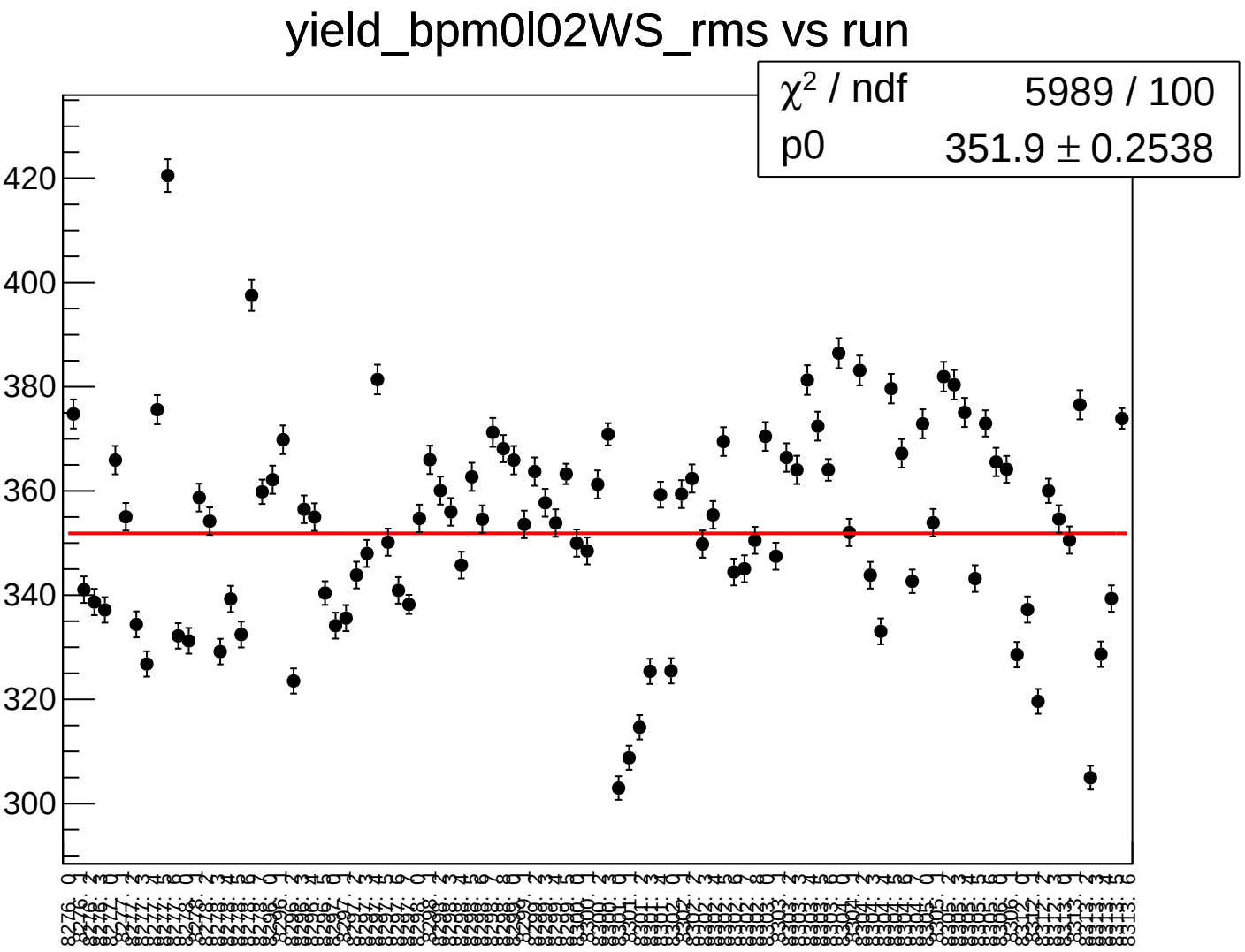

yield_bpm0i01aWS_rms vs run
χ² / ndf 6018 / 100
p0 326.1 ± 0.2352
380
360
340
320
300
280

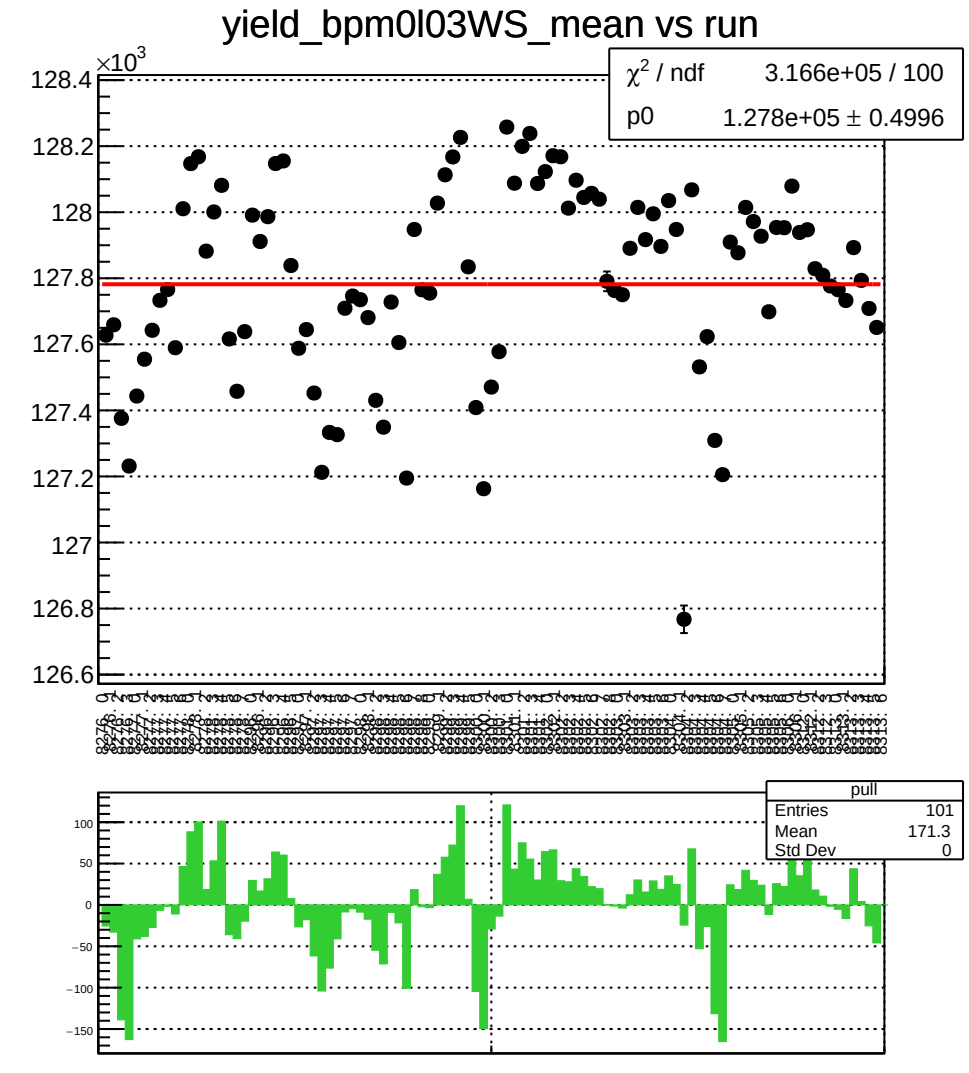

yield_bpm0l01WS_mean vs run
×10^3
χ^2 / ndf 3.013e+05 / 100
p0 1.162e+05 ± 0.2733
116.8
116.6
116.4
116.2
116
pull
Entries 101
Mean −314.5
Std Dev 0
200
150
100
50
0
−50
−100
pull1D
Entries 101
Mean 0.4007
Std Dev 4.551
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

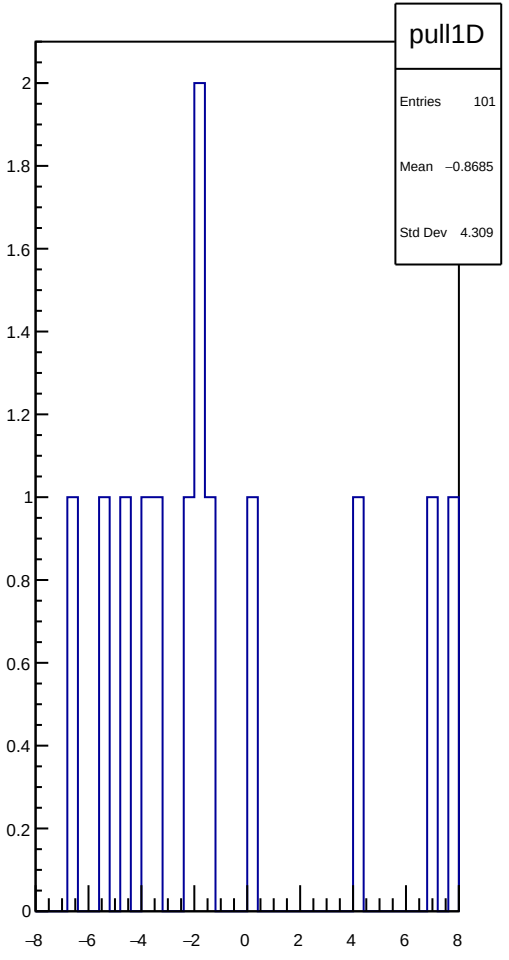

yield_bpm0l01WS_rms vs run
χ² / ndf 8192 / 100
p0 267.7 ± 0.1932
340
320
300
280
260
240
220

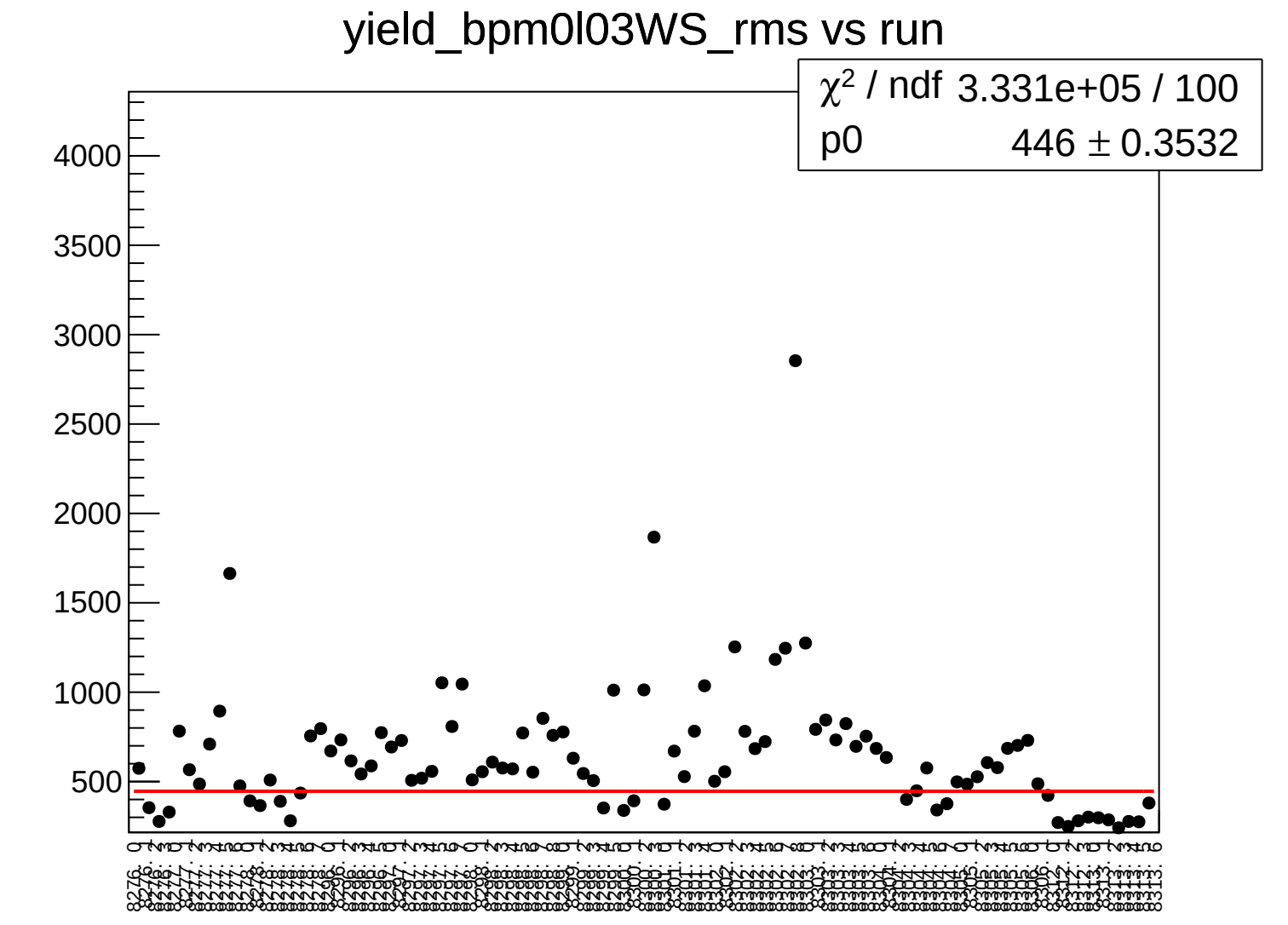

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 2.102e+06 / 100
p0 1.35e+05 ± 0.359
136
135.5
135
134.5
134
133.5
pull
Entries 101
Mean 1924
Std Dev 0
200
100
0
−100
−200
−300
−400

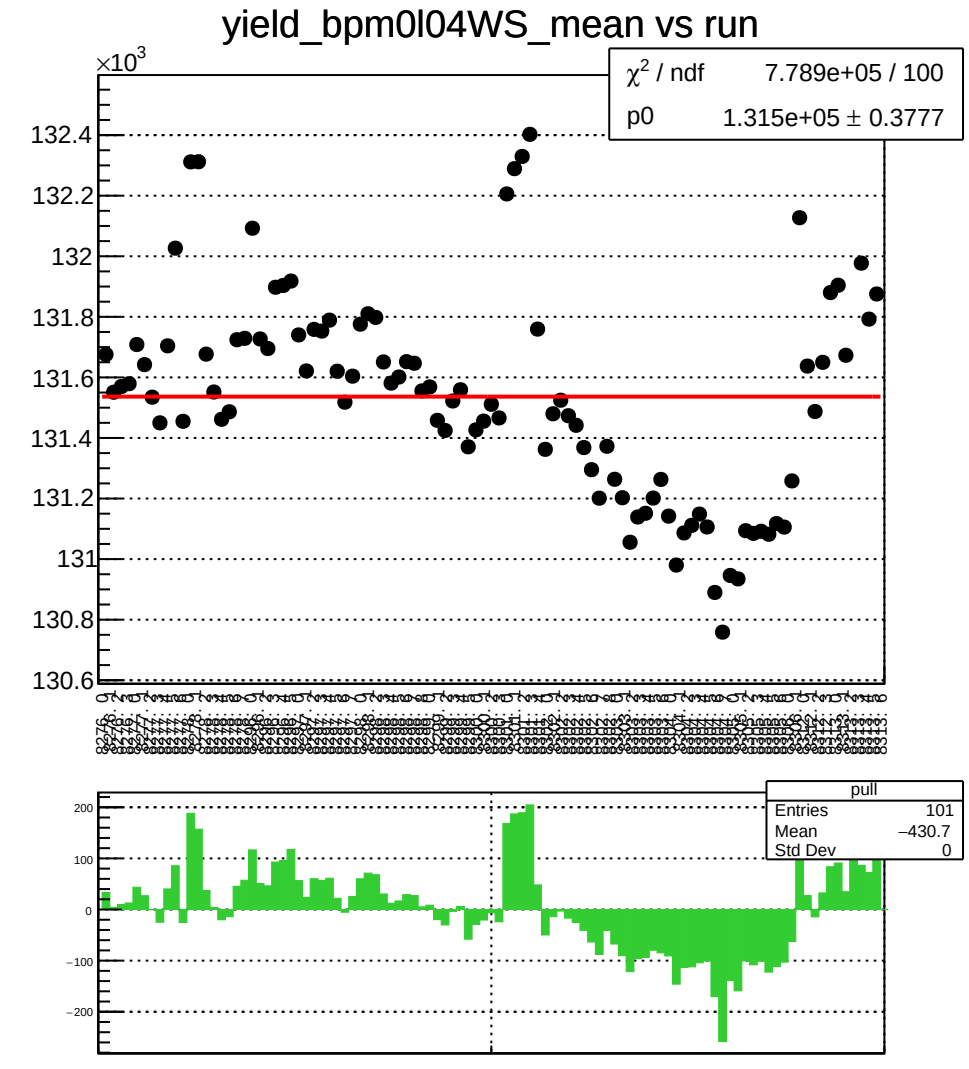

pull1D
Entries 101
Mean −4.965
Std Dev 2.376
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

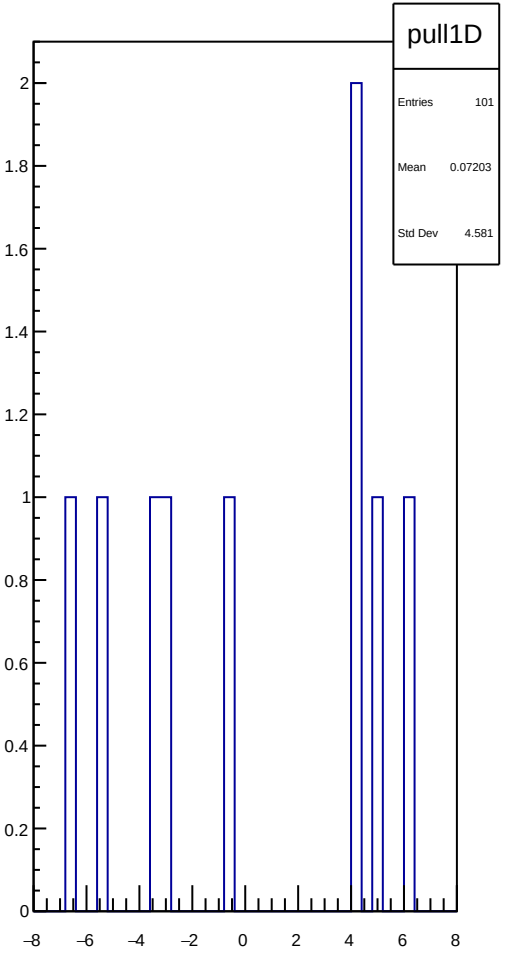

yield_bpm0l02WS_rms vs run
χ² / ndf 5989 / 100
p0 351.9 ± 0.2538
420
400
380
360
340
320
300

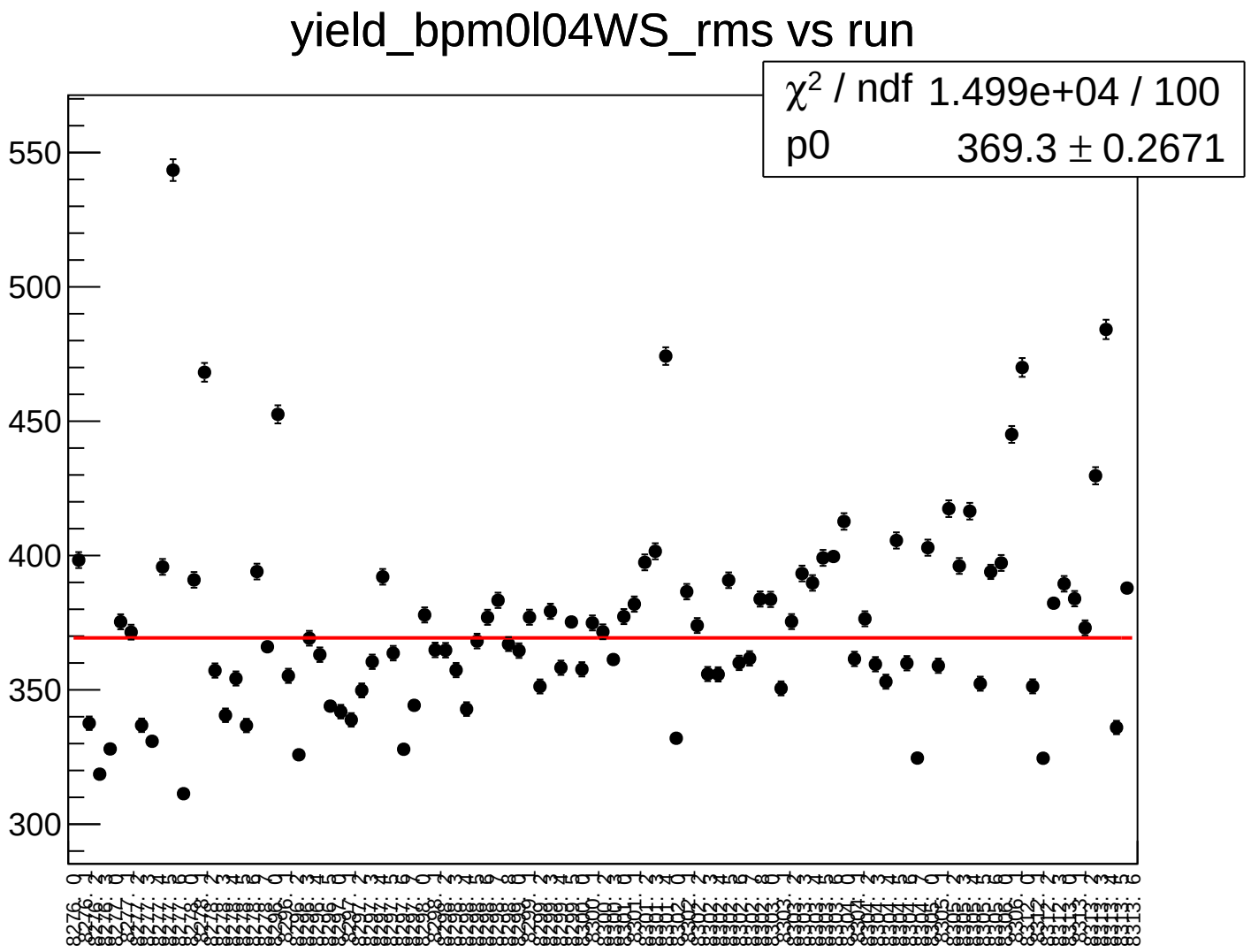

yield_bpm0l03WS_mean vs run
×10^3
χ^2 / ndf 3.166e+05 / 100
p0 1.278e+05 ± 0.4996
128.4
128.2
128
127.8
127.6
127.4
127.2
127
126.8
126.6
pull
Entries 101
Mean 171.3
Std Dev 0
100
50
0
−50
−100
−150

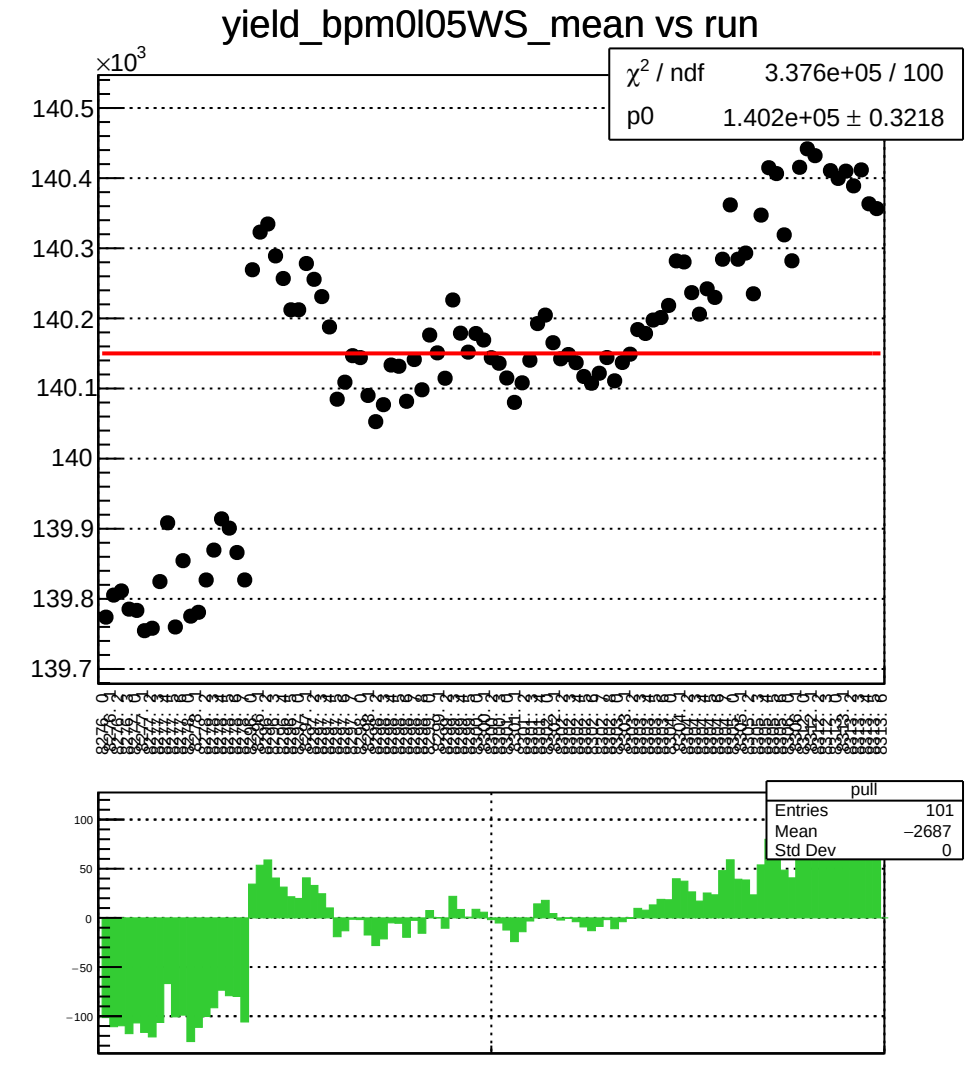

pull1D
Entries 101
Mean −0.8685
Std Dev 4.309
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

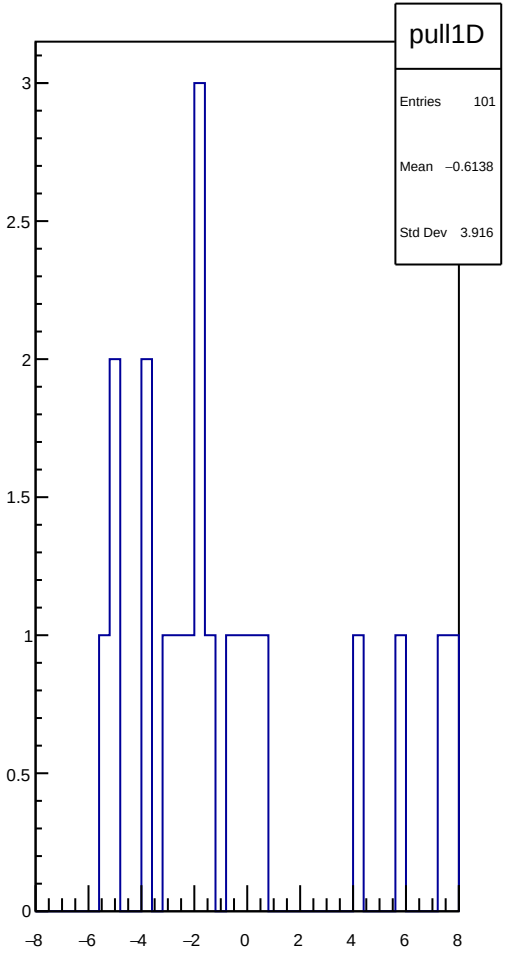

yield_bpm0l03WS_rms vs run
χ^2 / ndf 3.331e+05 / 100
p0 446 ± 0.3532
4000
3500
3000
2500
2000
1500
1000
500

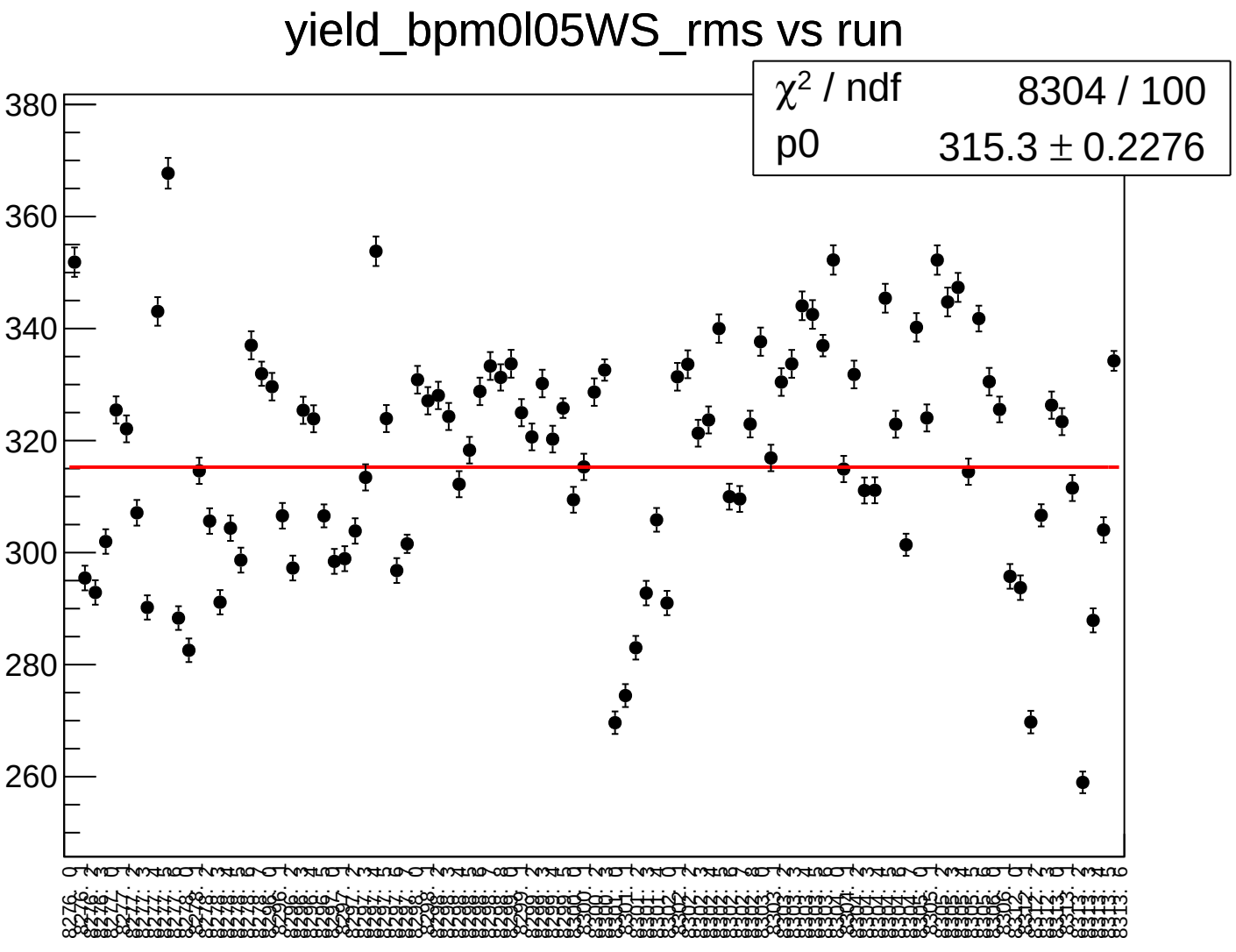

yield_bpm0l04WS_mean vs run
×10^3
χ^2 / ndf 7.789e+05 / 100
p0 1.315e+05 ± 0.3777
132.4
132.2
132
131.8
131.6
131.4
131.2
131
130.8
130.6
pull
Entries 101
Mean −430.7
Std Dev 0
200
100
0
−100
−200

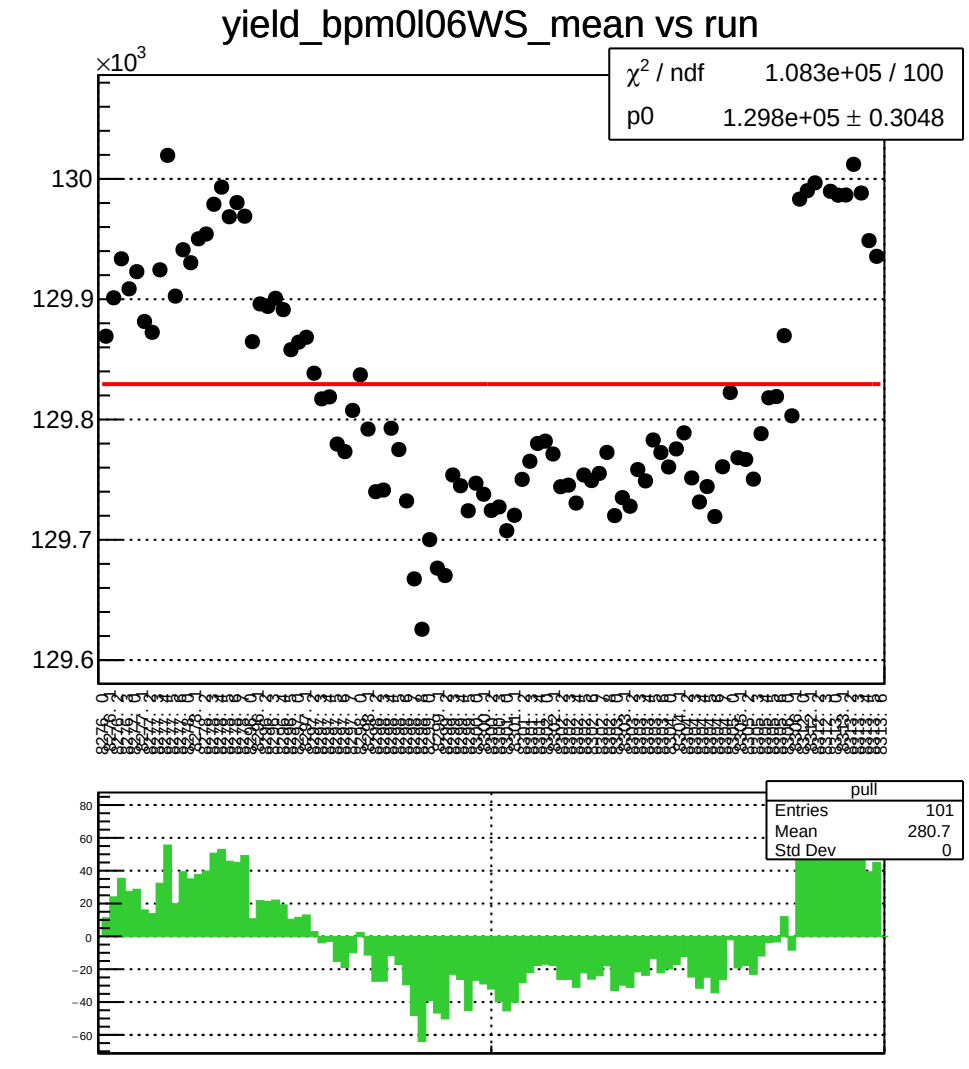

pull1D
Entries 101
Mean 0.07203
Std Dev 4.581
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

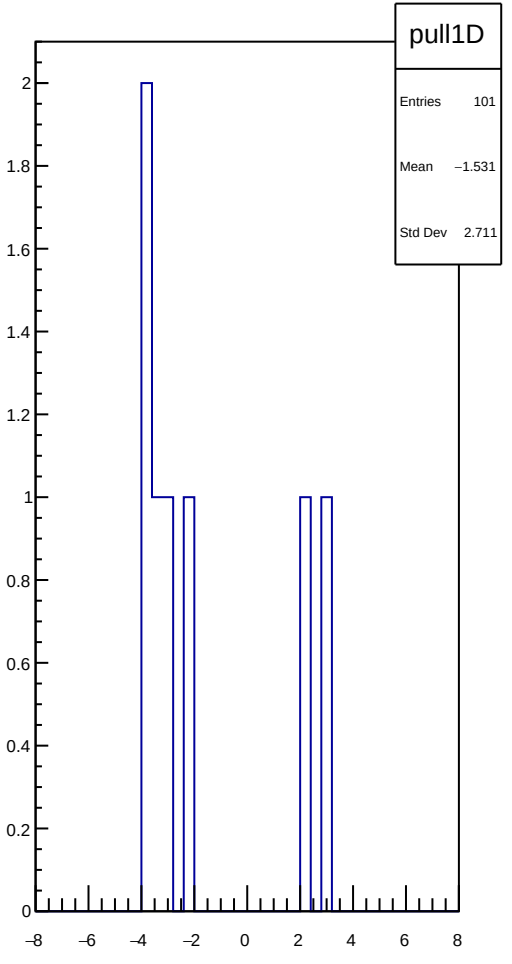

yield_bpm0l04WS_rms vs run
χ² / ndf 1.499e+04 / 100
p0 369.3 ± 0.2671
550
500
450
400
350
300

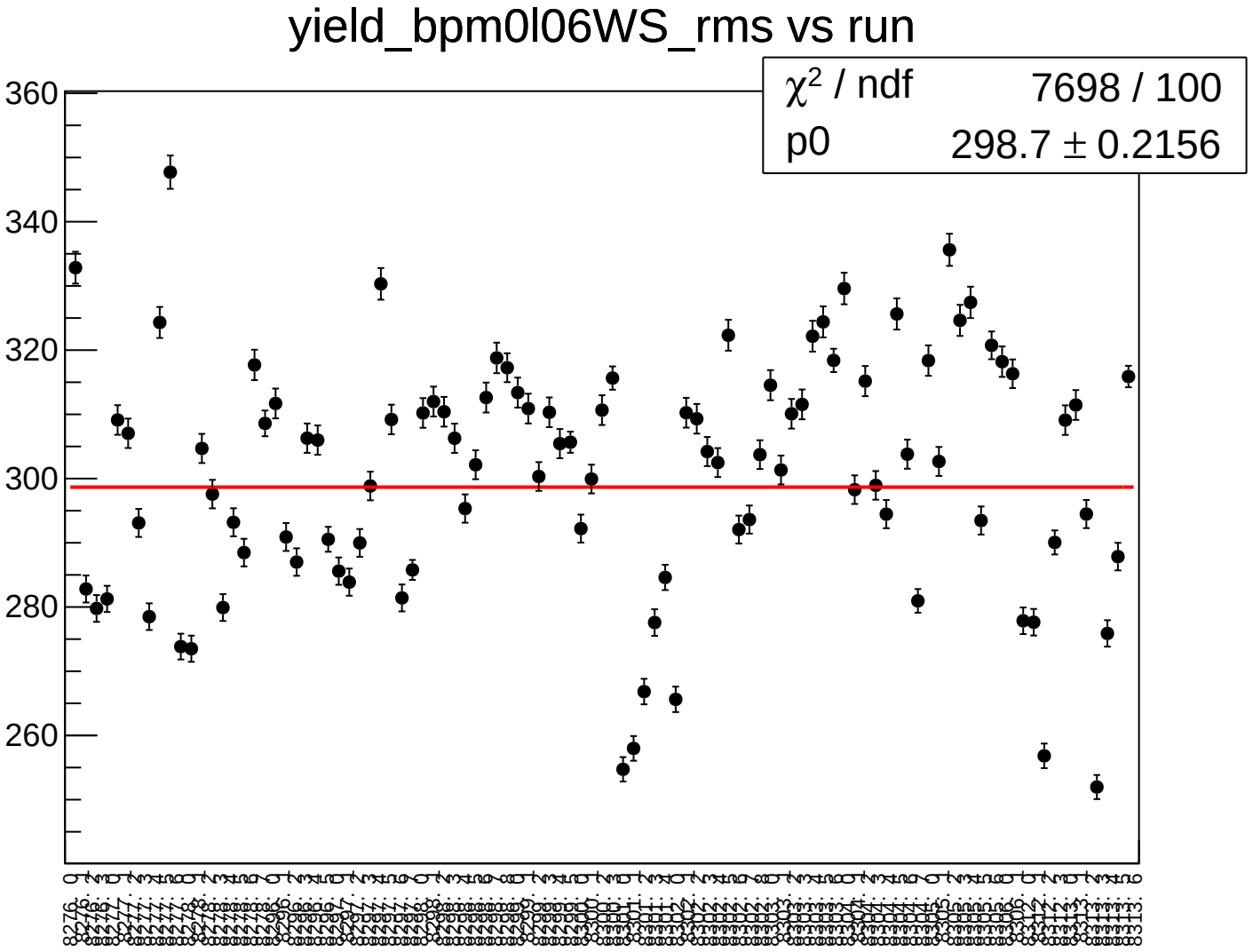

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 3.376e+05 / 100
p0 1.402e+05 ± 0.3218
140.5
140.4
140.3
140.2
140.1
140
139.9
139.8
139.7
pull
Entries 101
Mean −2687
Std Dev 0
100
50
0
−50
−100

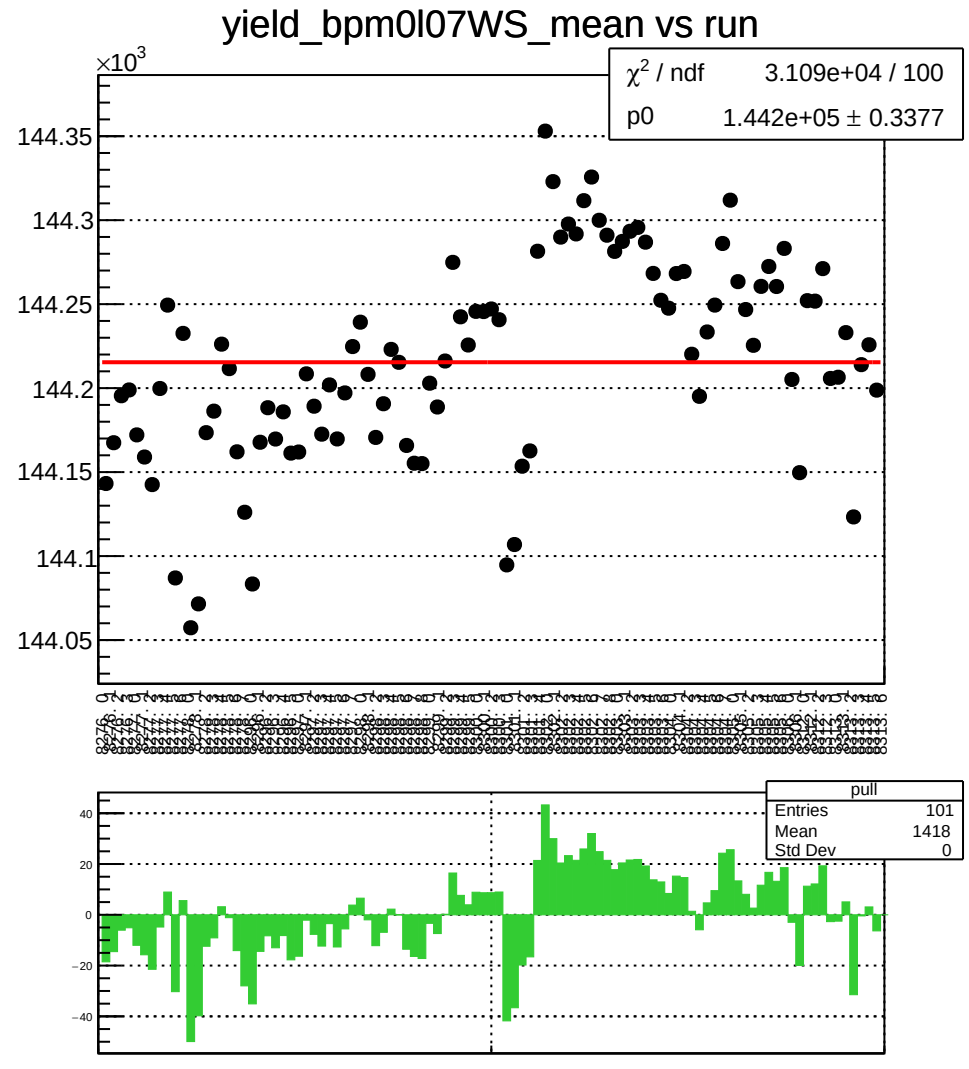

pull1D
Entries 101
Mean −0.6138
Std Dev 3.916
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

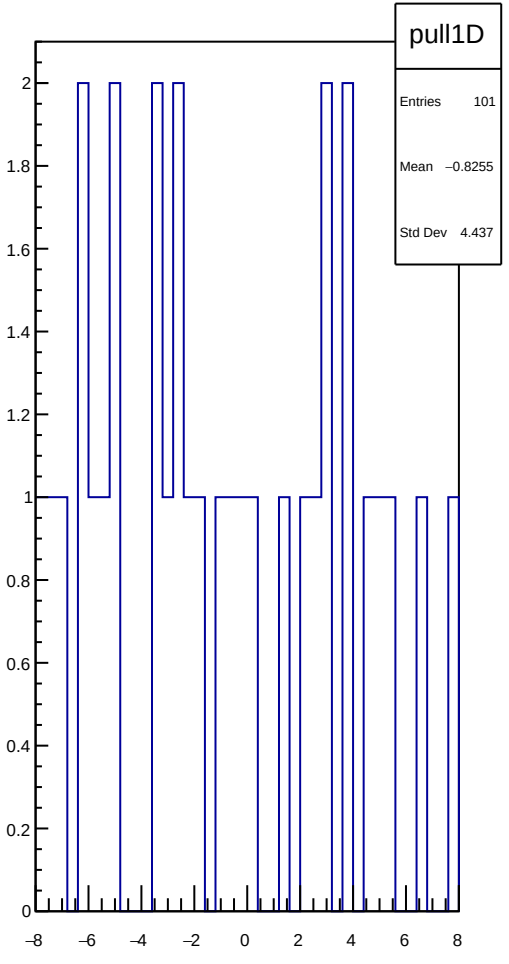

yield_bpm0l05WS_rms vs run
χ² / ndf 8304 / 100
p0 315.3 ± 0.2276
380
360
340
320
300
280
260

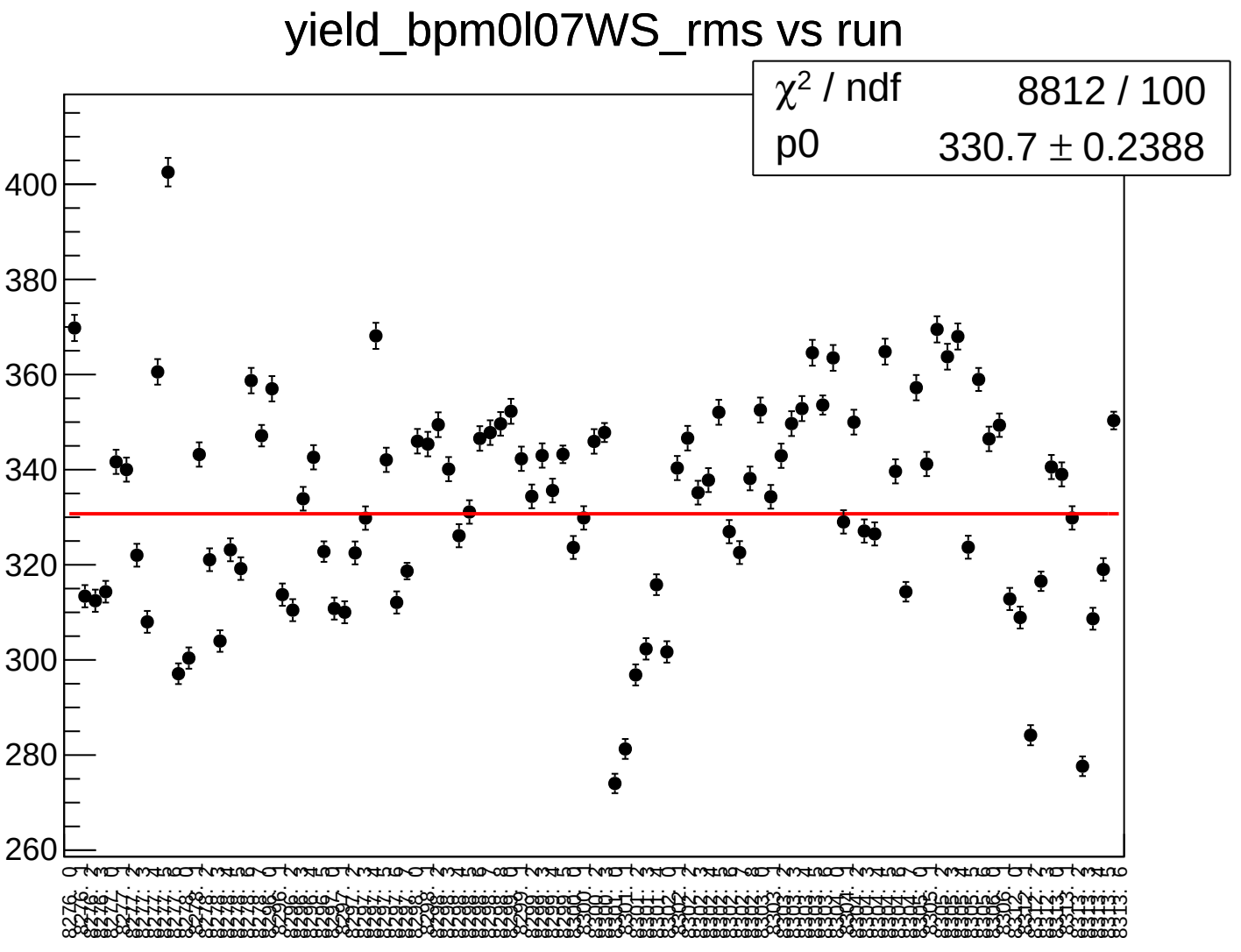

yield_bpm0l06WS_mean vs run
×10^3
χ² / ndf 1.083e+05 / 100
p0 1.298e+05 ± 0.3048
130
129.9
129.8
129.7
129.6
pull
Entries 101
Mean 280.7
Std Dev 0
80
60
40
20
0
−20
−40
−60

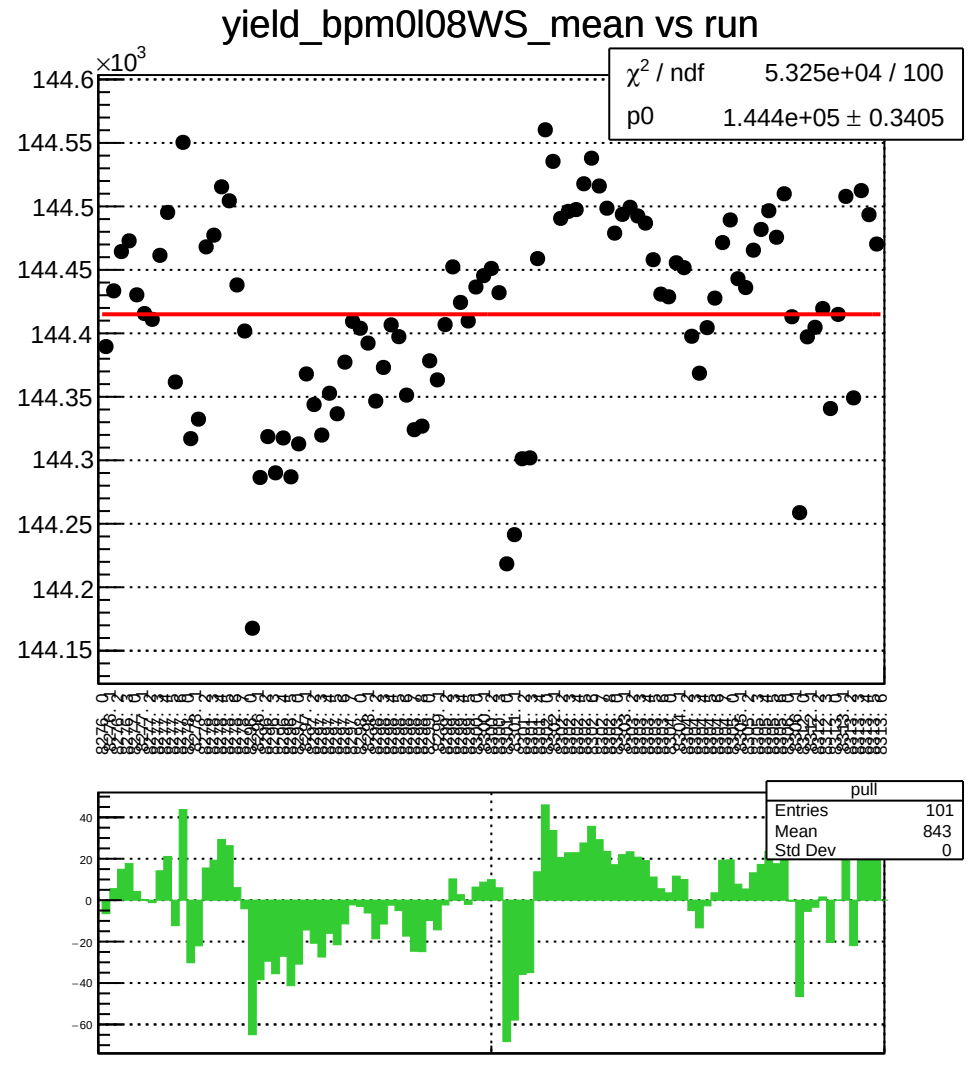

pull1D
Entries 101
Mean −1.531
Std Dev 2.711
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

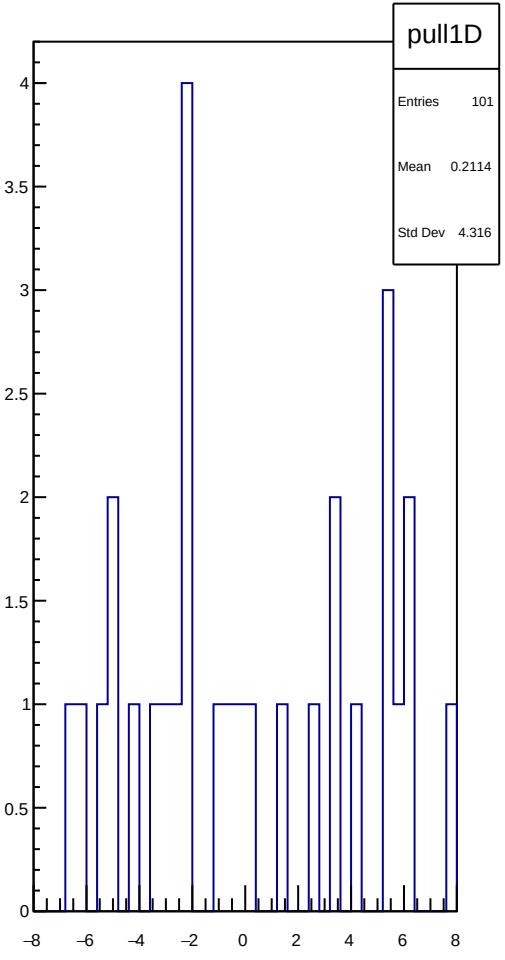

yield_bpm0l06WS_rms vs run
χ² / ndf 7698 / 100
p0 298.7 ± 0.2156
360
340
320
300
280
260

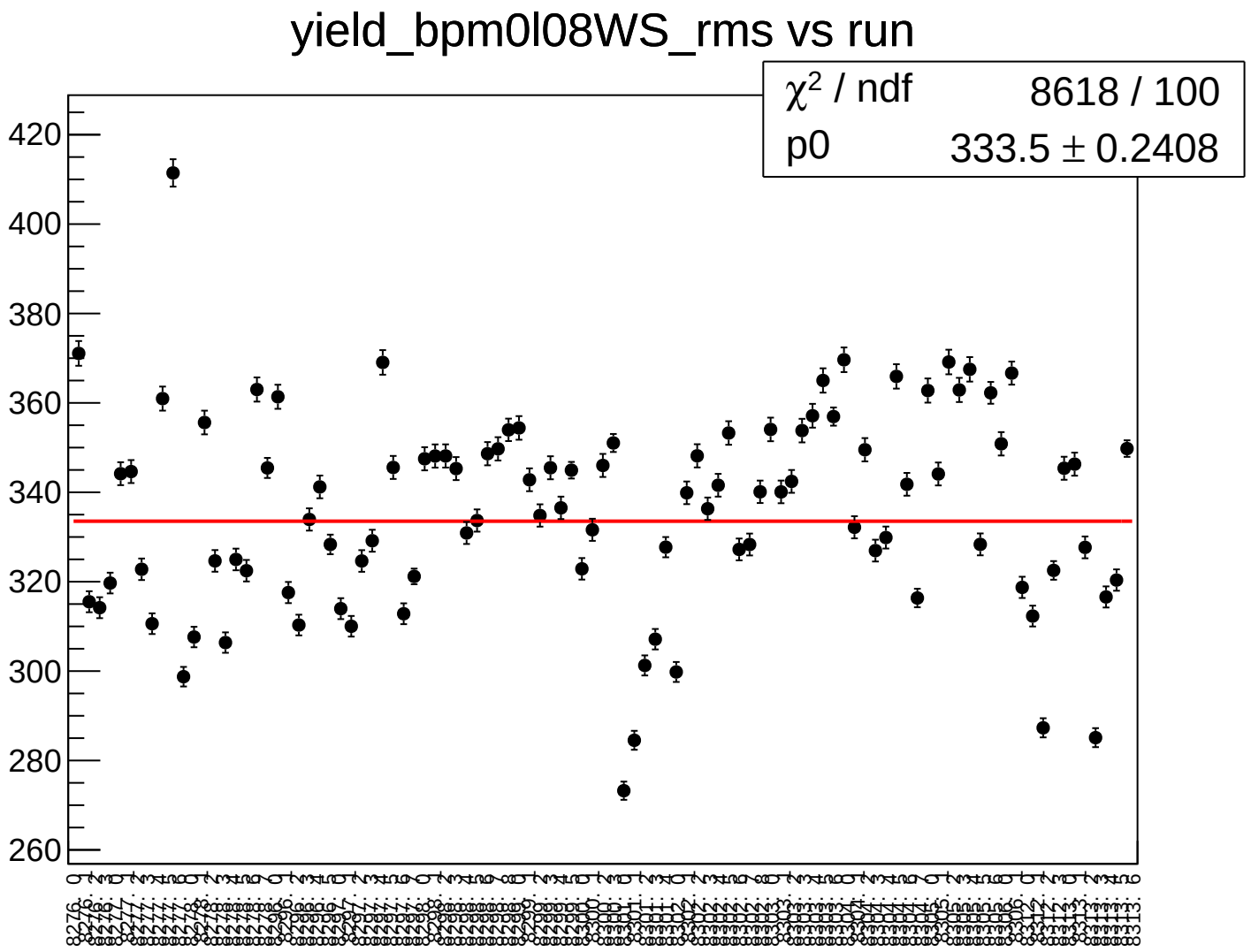

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 3.109e+04 / 100
p0 1.442e+05 ± 0.3377
144.35
144.3
144.25
144.2
144.15
144.1
144.05
pull
Entries 101
Mean 1418
Std Dev 0
40
20
0
−20
−40

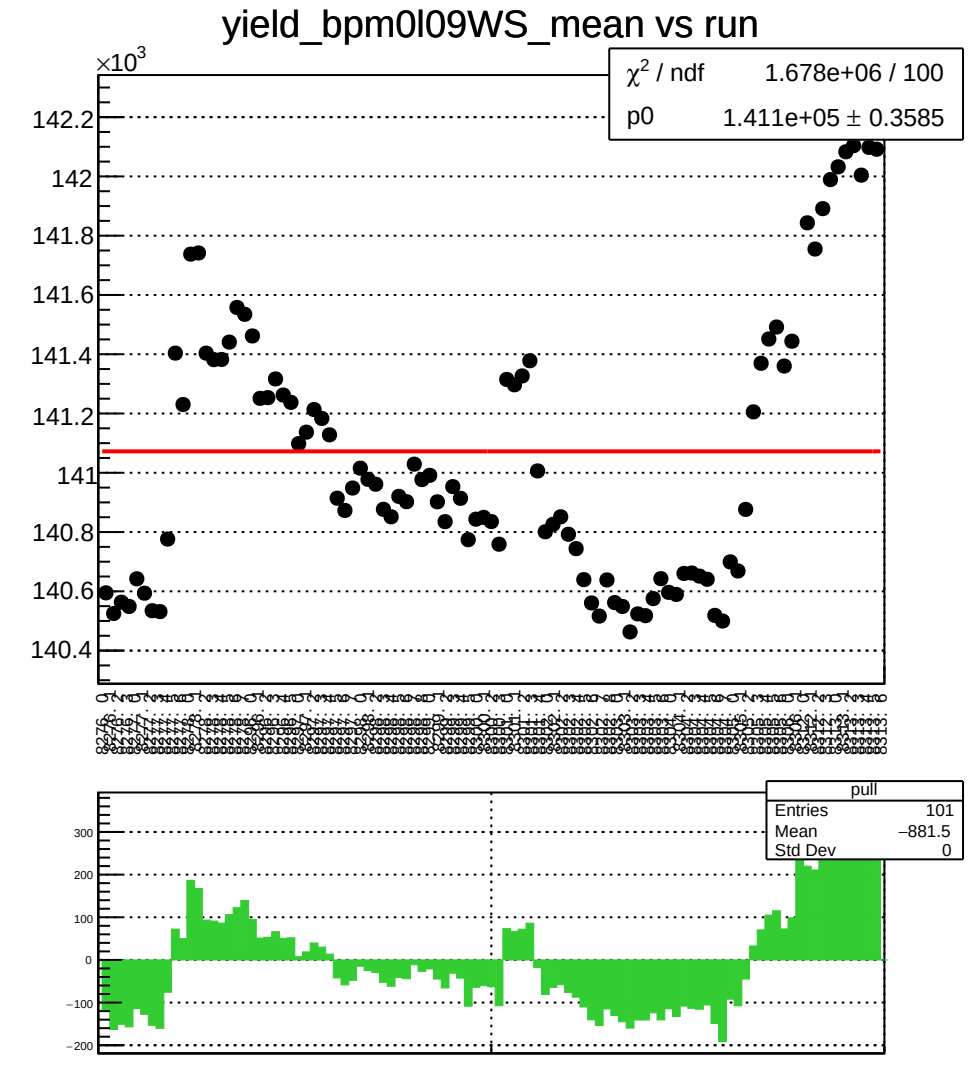

pull1D
Entries 101
Mean −0.8255
Std Dev 4.437
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

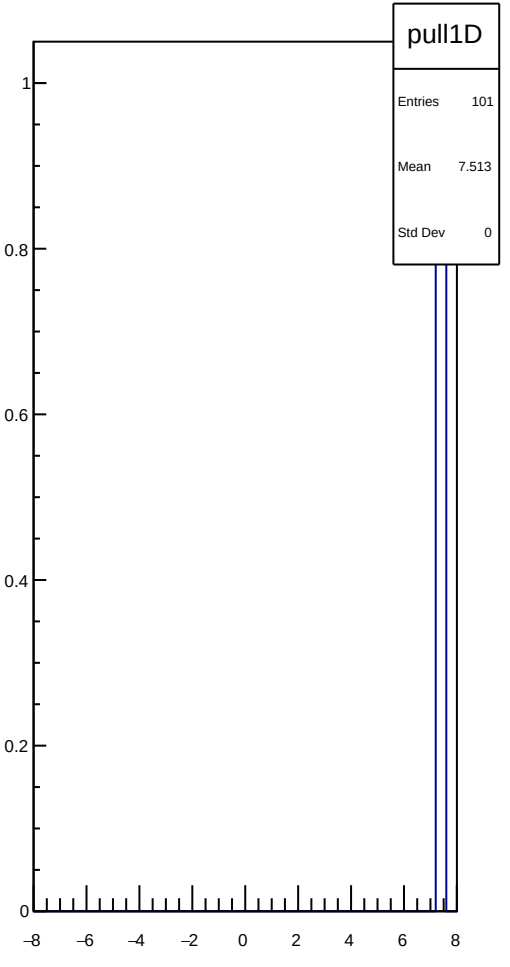

yield_bpm0l07WS_rms vs run
χ² / ndf 8812 / 100
p0 330.7 ± 0.2388
400
380
360
340
320
300
280
260

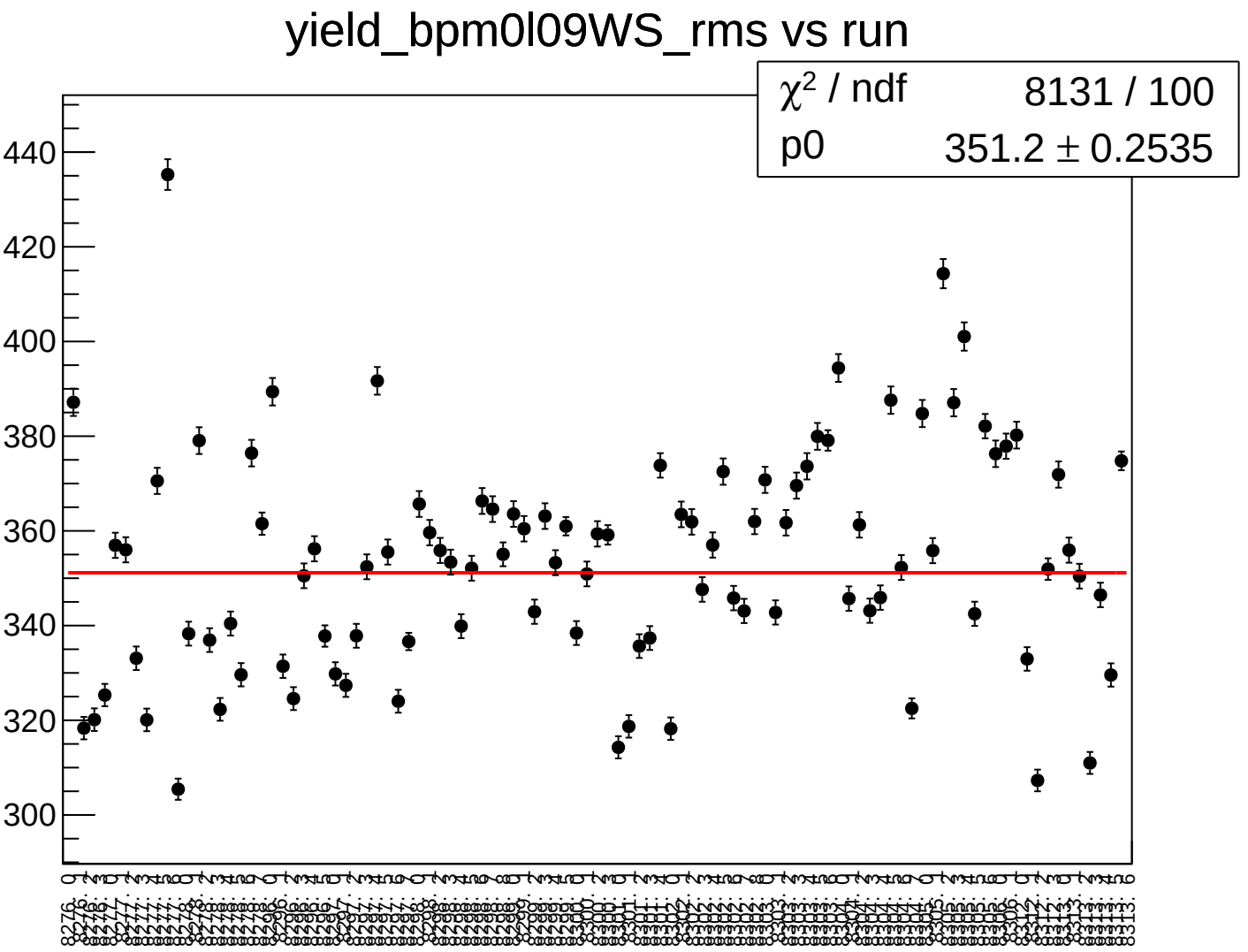

yield_bpm0l08WS_mean vs run
×10^3
144.6
144.55
144.5
144.45
144.4
144.35
144.3
144.25
144.2
144.15
χ² / ndf 5.325e+04 / 100
p0 1.444e+05 ± 0.3405
pull
Entries 101
Mean 843
Std Dev 0
40
20
0
−20
−40
−60

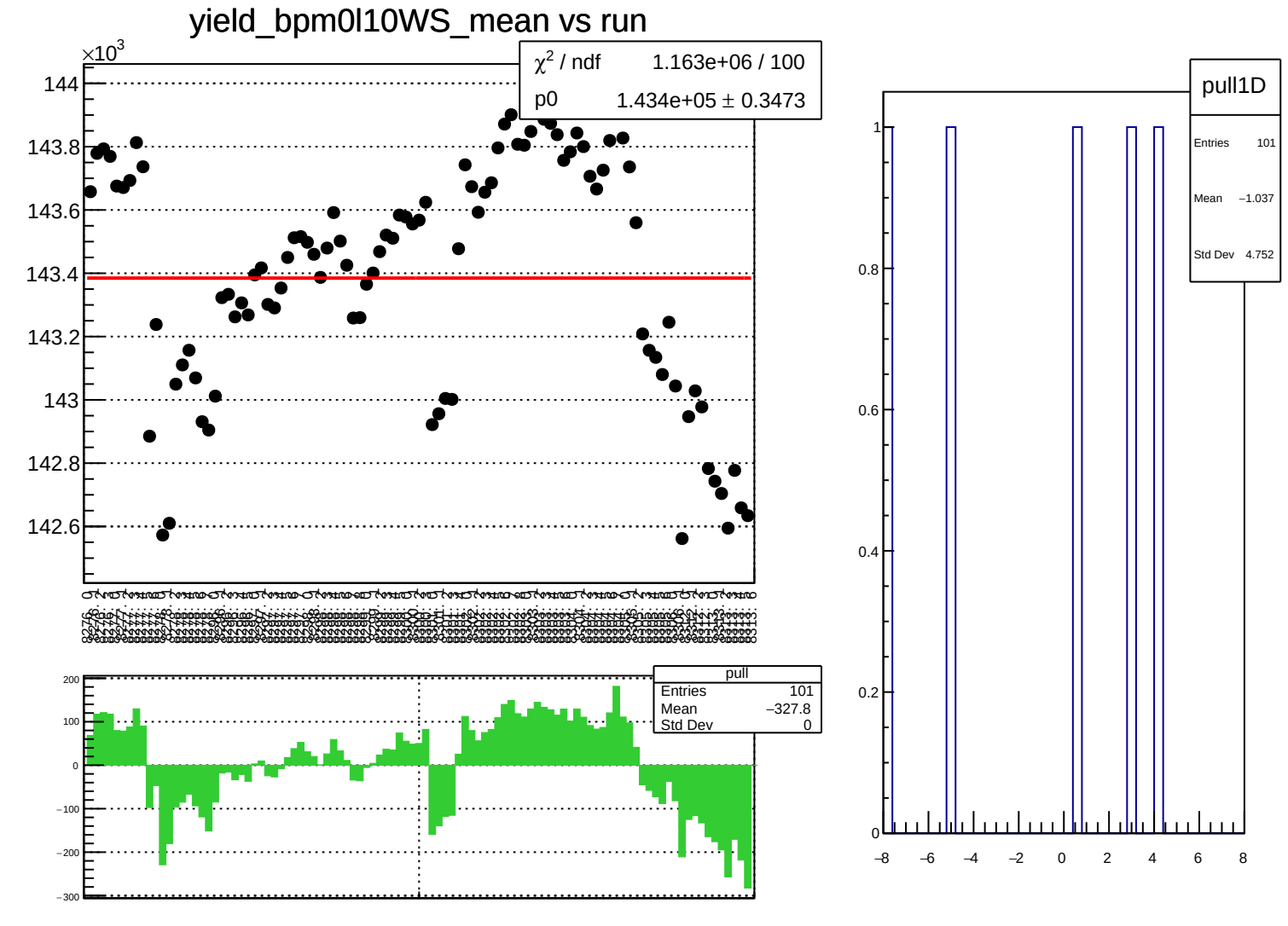

pull1D
Entries 101
Mean 0.2114
Std Dev 4.316
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

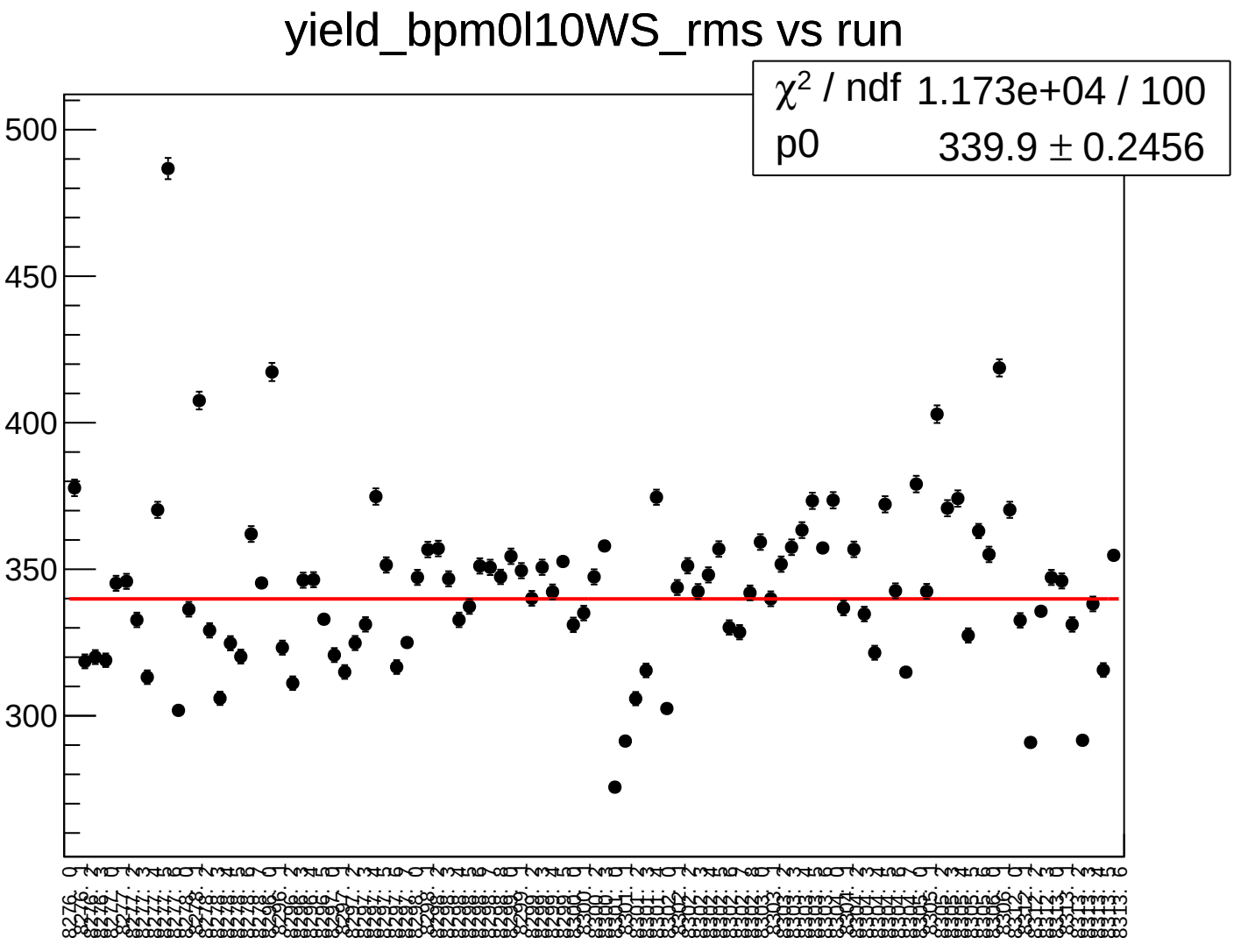

yield_bpm0l08WS_rms vs run
χ² / ndf 8618 / 100
p0 333.5 ± 0.2408
420
400
380
360
340
320
300
280
260

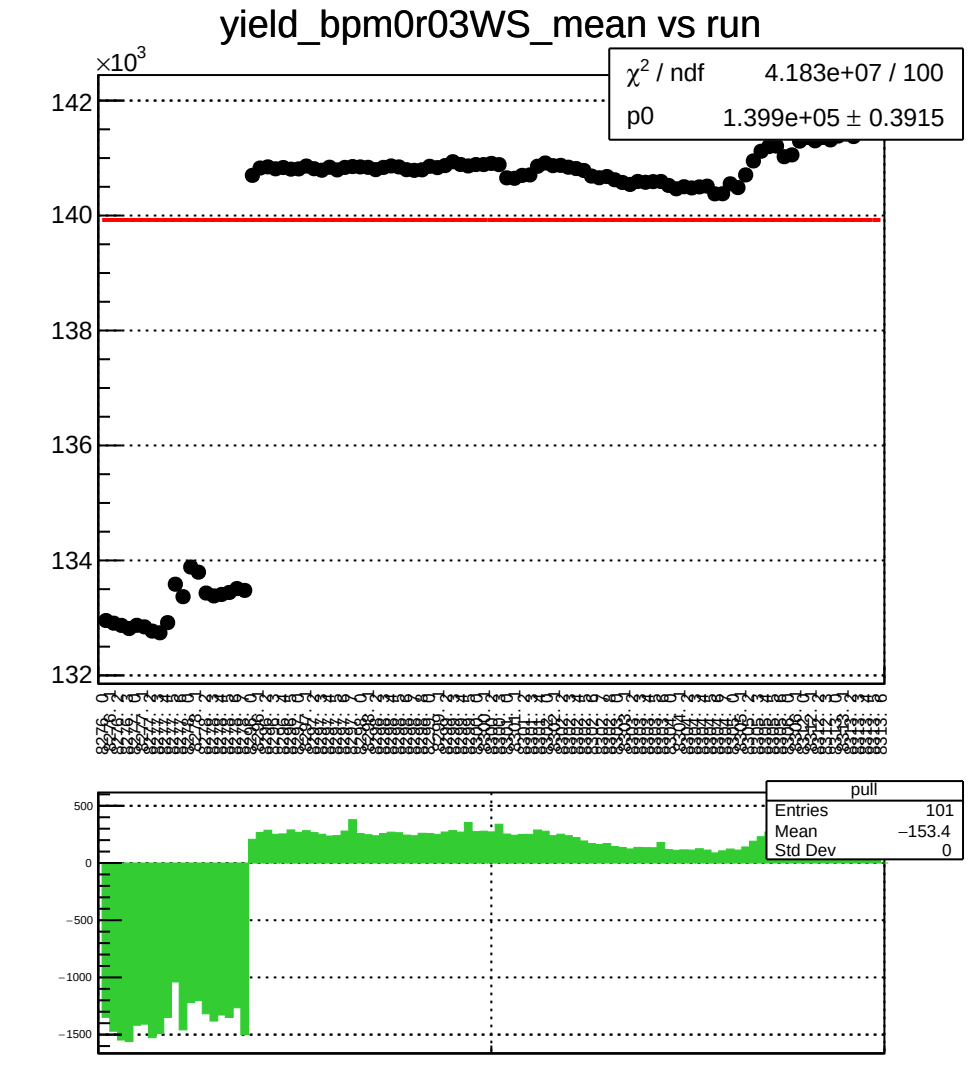

yield_bpm0l09WS_mean vs run
×10^3
χ² / ndf 1.678e+06 / 100
p0 1.411e+05 ± 0.3585
142.2
142
141.8
141.6
141.4
141.2
141
140.8
140.6
140.4
pull
Entries 101
Mean −881.5
Std Dev 0
300
200
100
0
−100
−200

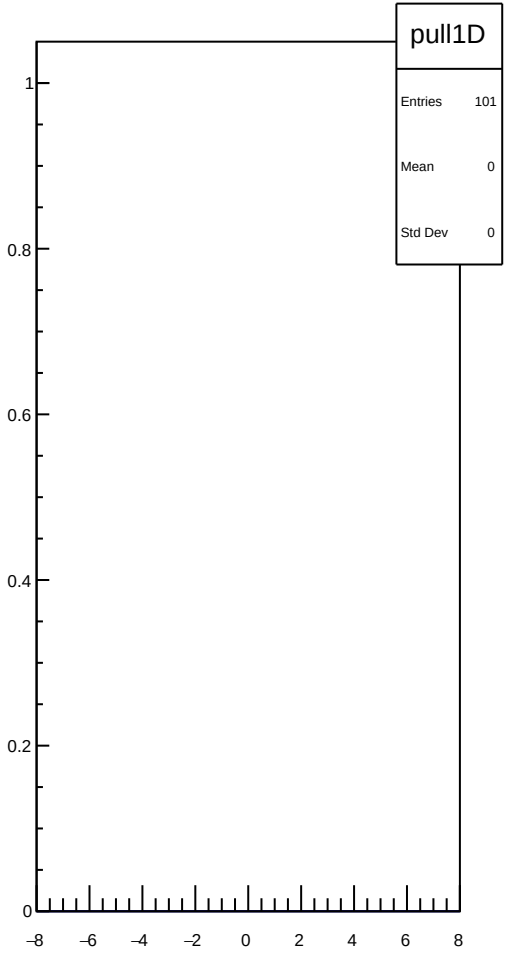

pull1D
Entries 101
Mean 7.513
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

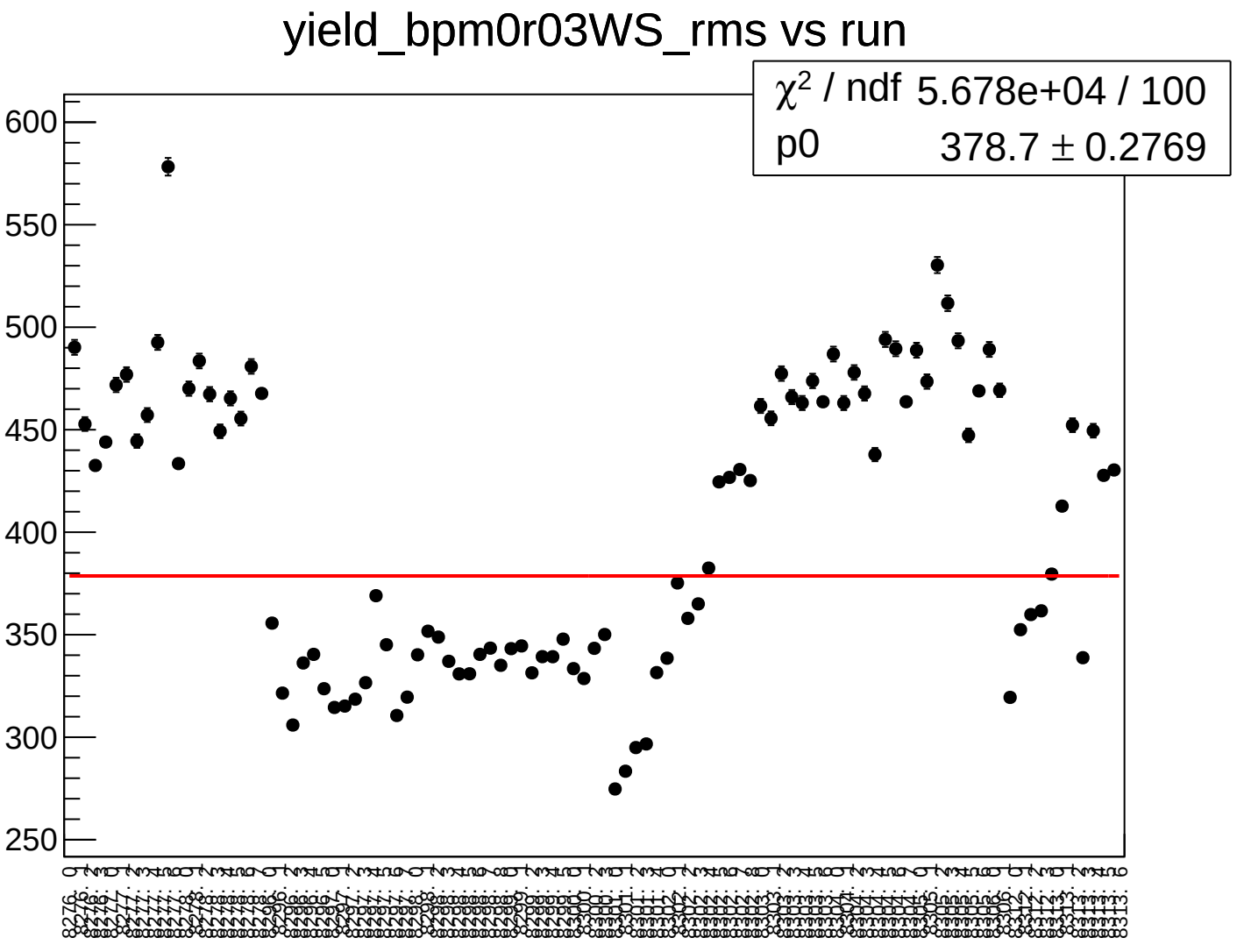

yield_bpm0l09WS_rms vs run
χ² / ndf 8131 / 100
p0 351.2 ± 0.2535
440
420
400
380
360
340
320
300

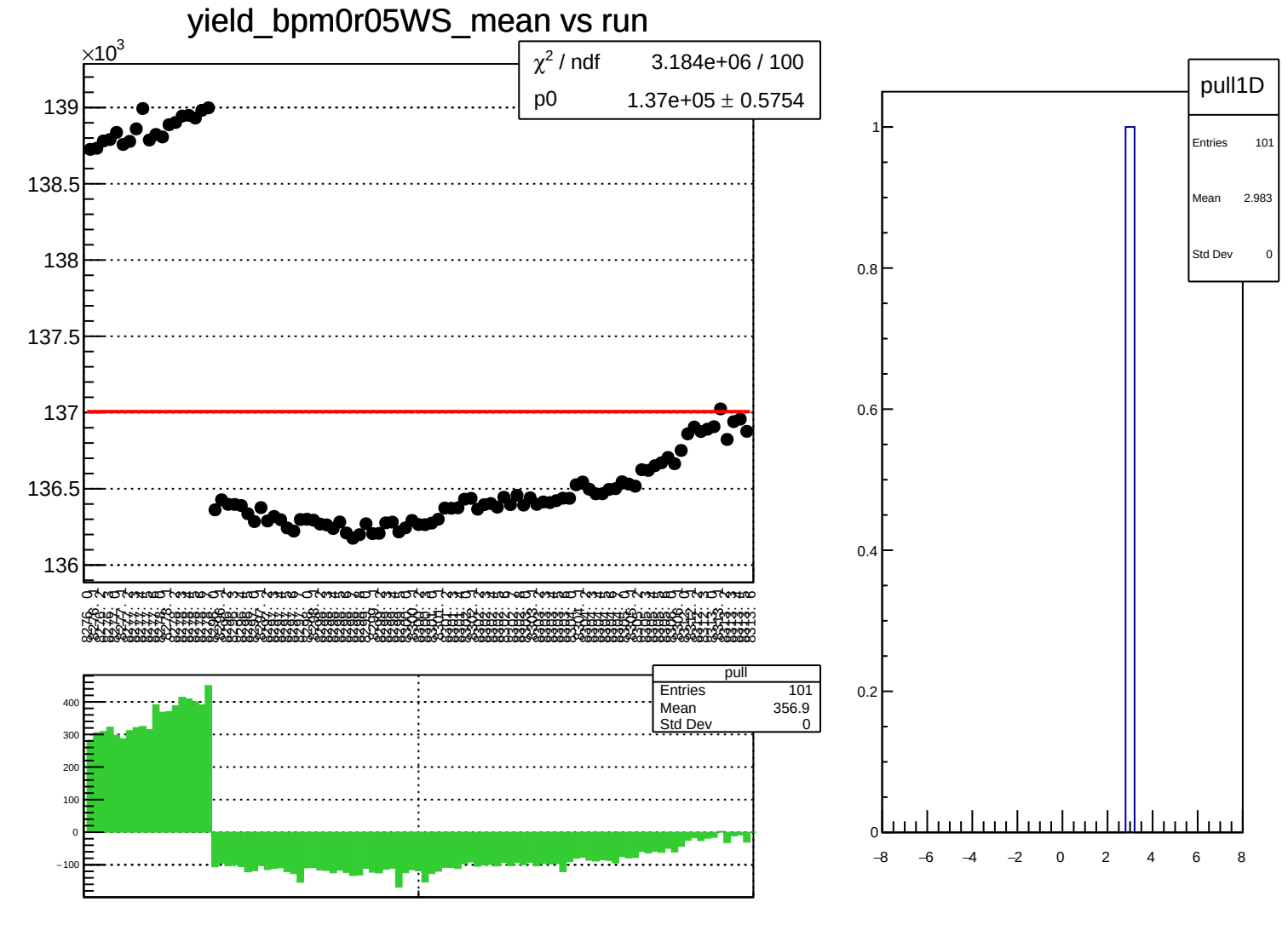

yield_bpm0l10WS_mean vs run
×10^3
144
143.8
143.6
143.4
143.2
143
142.8
142.6
χ² / ndf 1.163e+06 / 100
p0 1.434e+05 ± 0.3473
pull
Entries 101
Mean −327.8
Std Dev 0
200
100
0
−100
−200
−300
pull1D
Entries 101
Mean −1.037
Std Dev 4.752
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

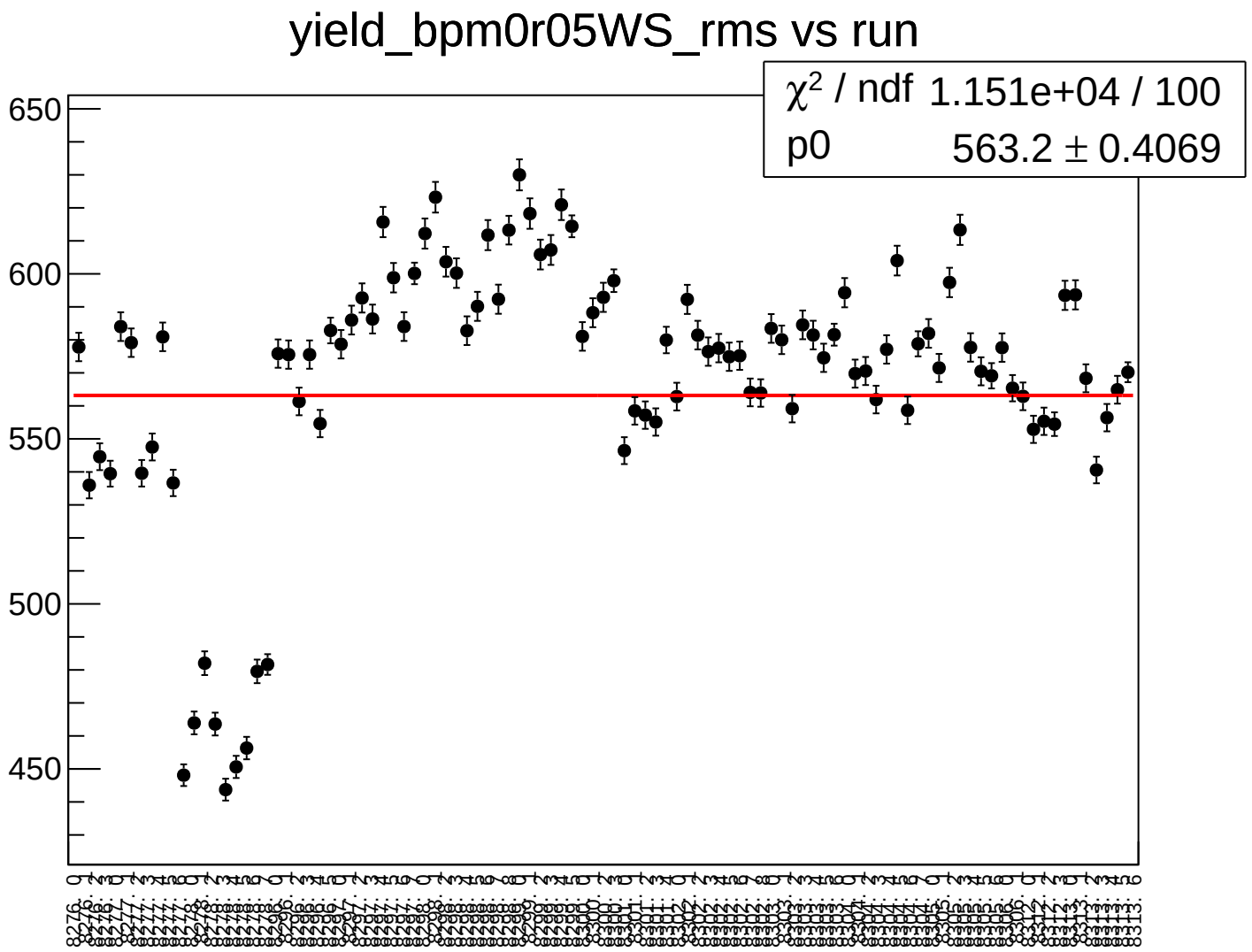

yield_bpm0l10WS_rms vs run
χ² / ndf 1.173e+04 / 100
p0 339.9 ± 0.2456
500
450
400
350
300

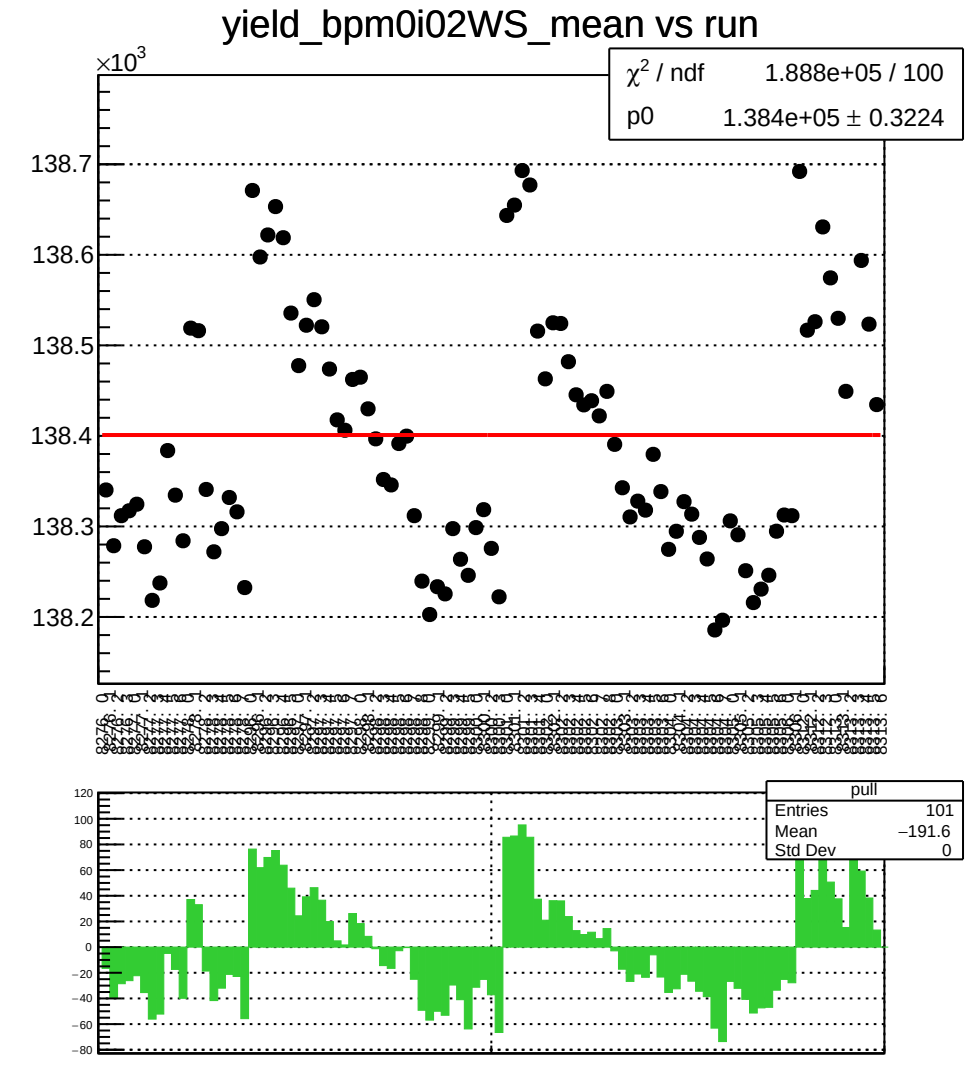

yield_bpm0r03WS_mean vs run
×10^3
χ^2 / ndf 4.183e+07 / 100
p0 1.399e+05 ± 0.3915
142
140
138
136
134
132
pull
Entries 101
Mean −153.4
Std Dev 0
500
0
−500
−1000
−1500

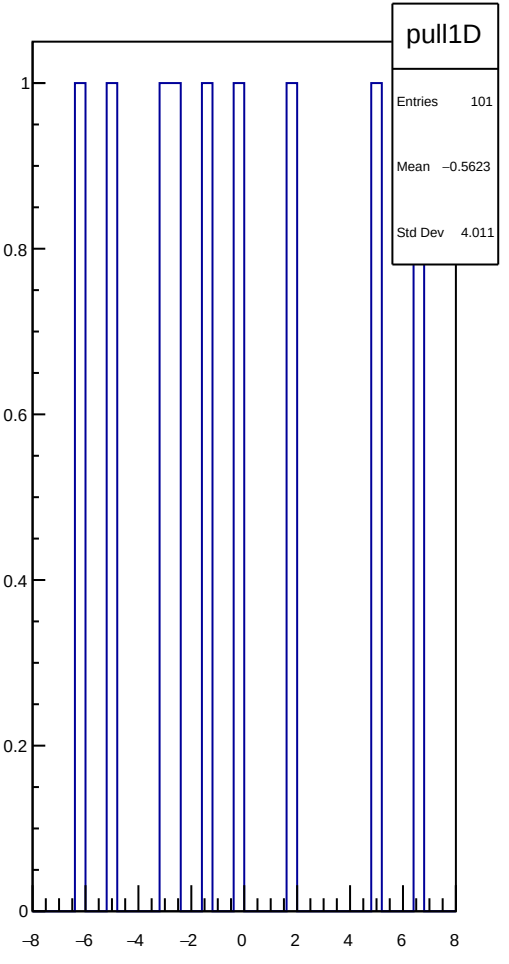

pull1D
Entries 101
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

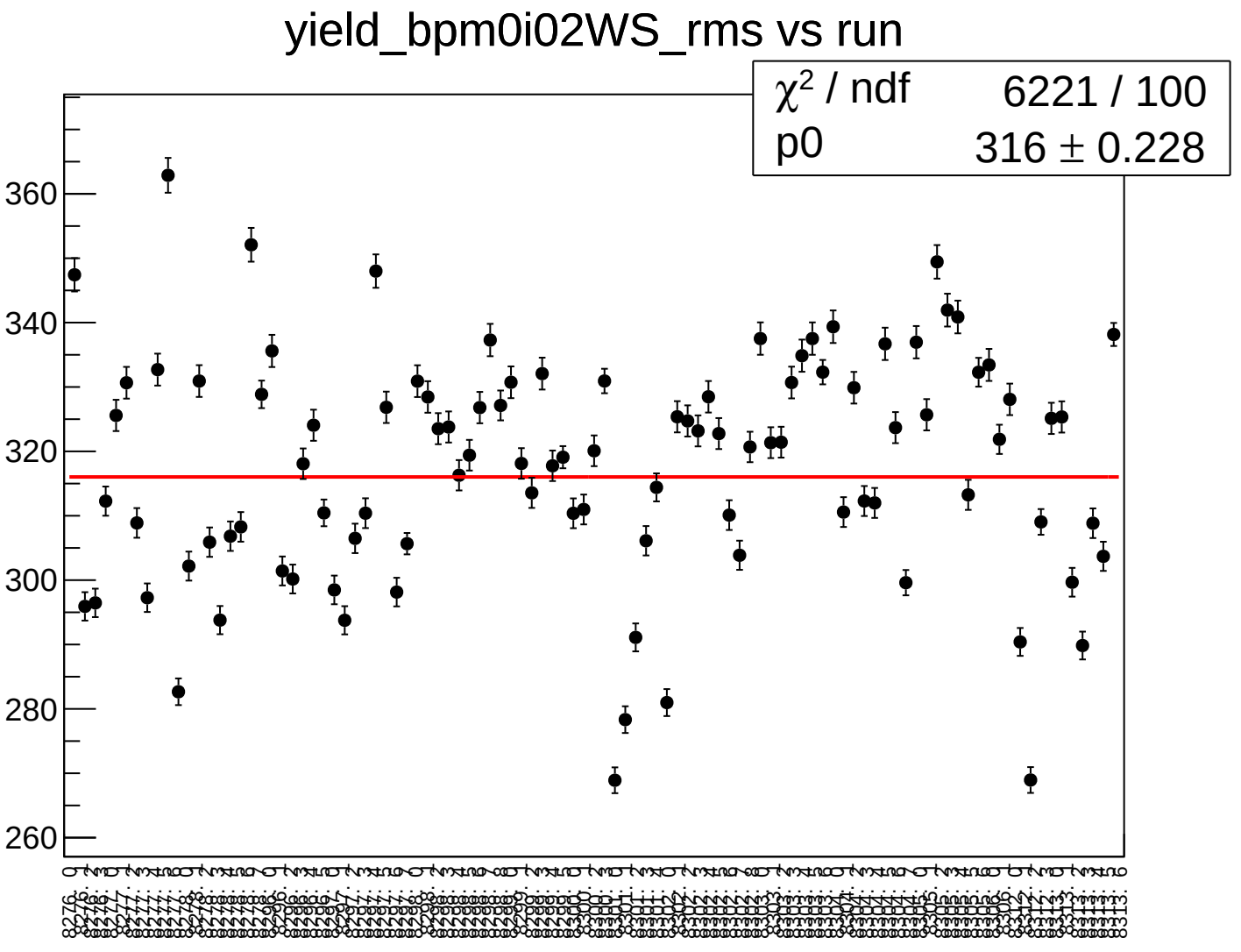

yield_bpm0r03WS_rms vs run
χ^2 / ndf 5.678e+04 / 100
p0 378.7 ± 0.2769
600
550
500
450
400
350
300
250

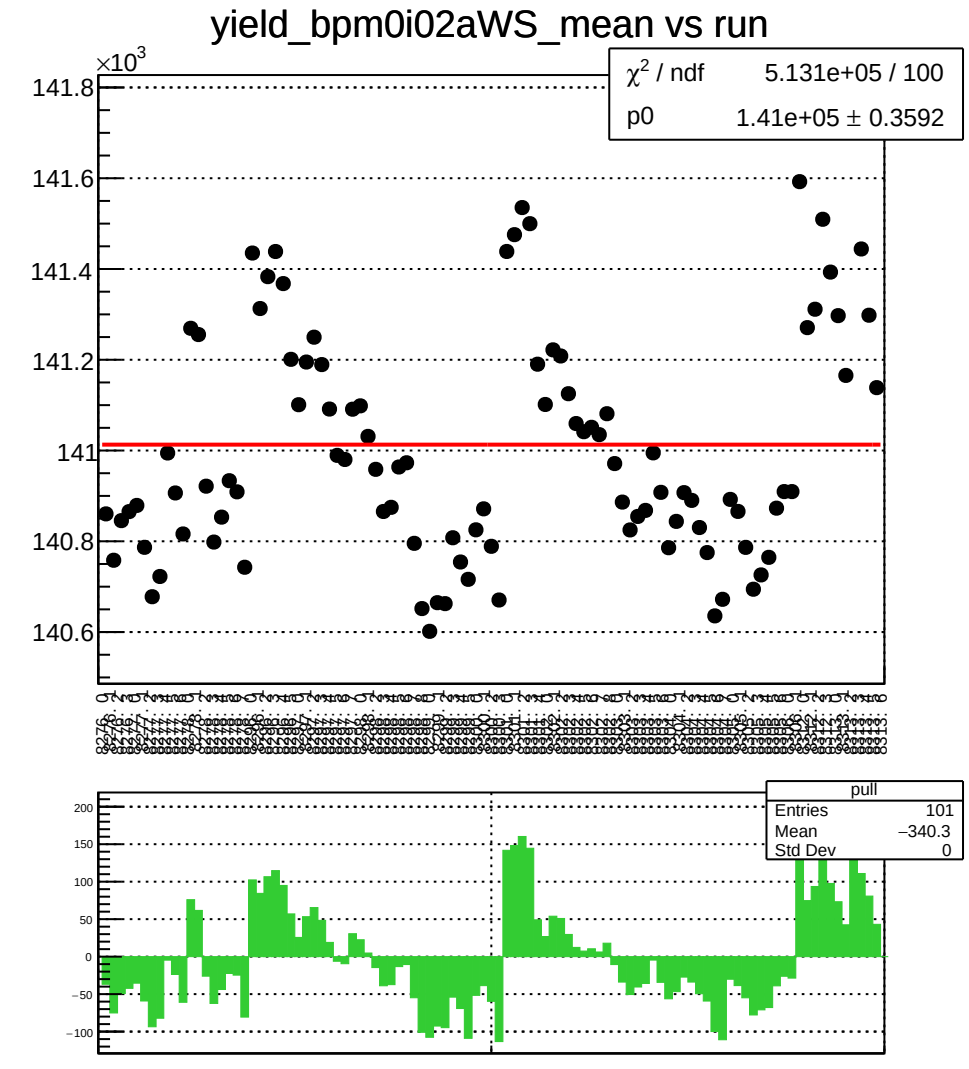

yield_bpm0r05WS_mean vs run
×10^3
χ^2 / ndf 3.184e+06 / 100
p0 1.37e+05 ± 0.5754
139
138.5
138
137.5
137
136.5
136
pull
Entries 101
Mean 356.9
Std Dev 0
400
300
200
100
0
−100
pull1D
Entries 101
Mean 2.983
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

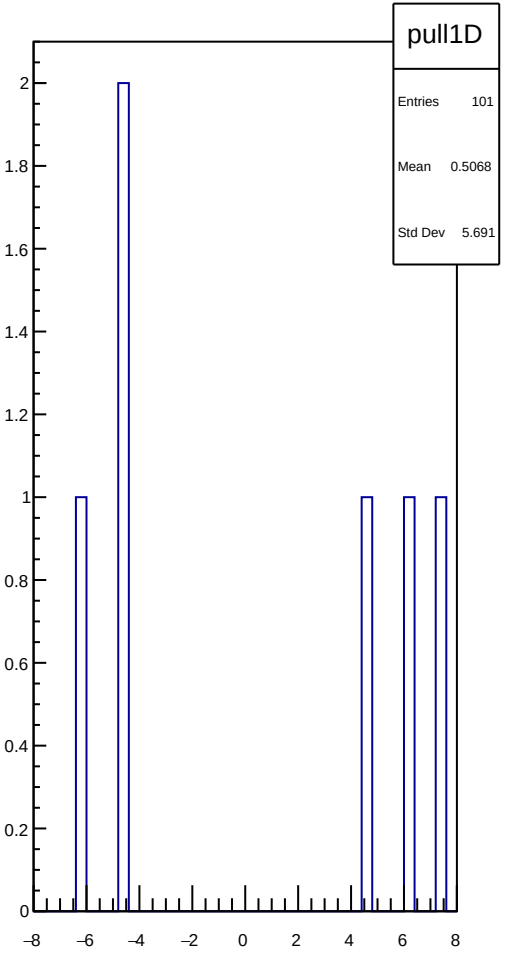

yield_bpm0r05WS_rms vs run
χ² / ndf 1.151e+04 / 100
p0 563.2 ± 0.4069
650
600
550
500
450

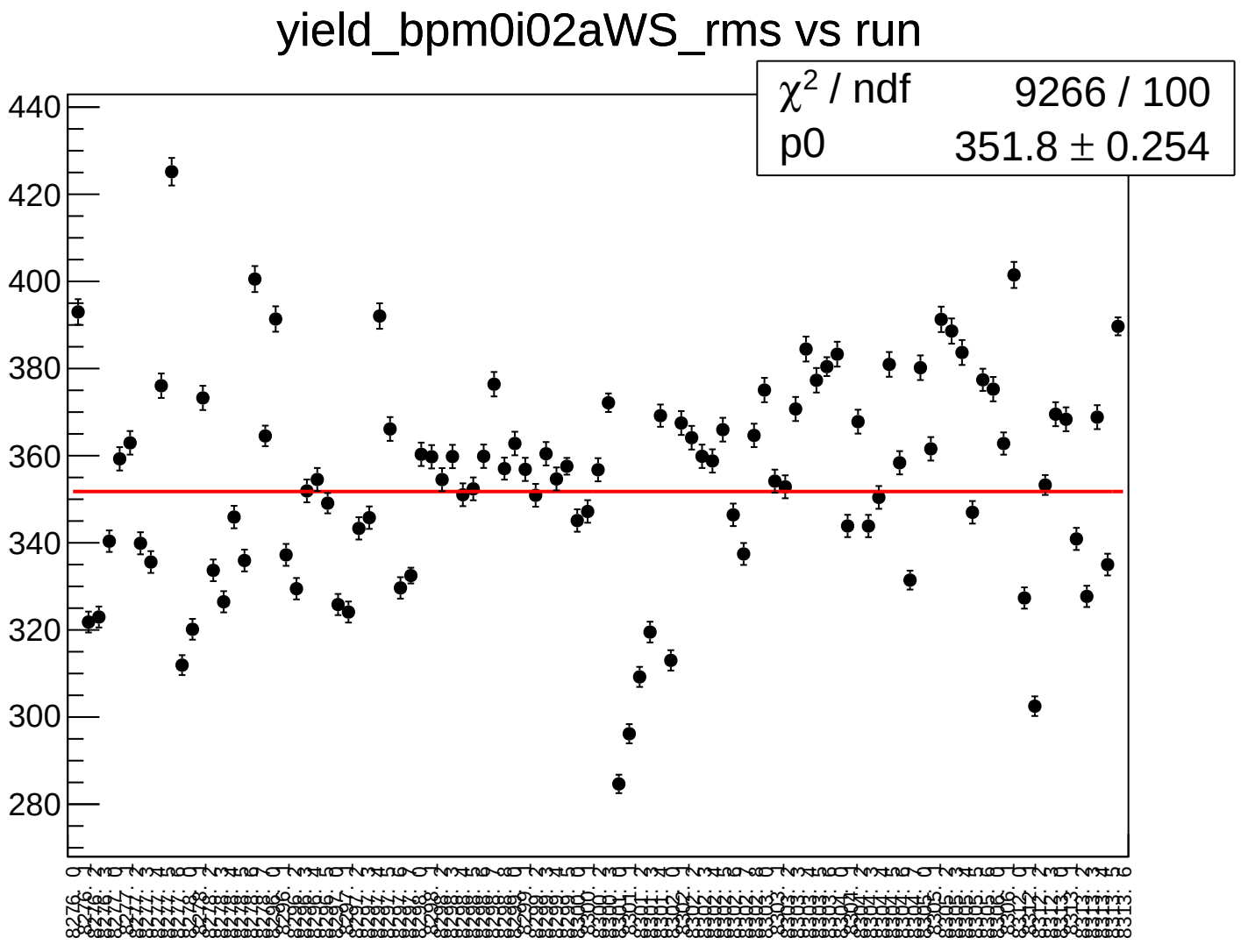

yield_bpm0i02WS_mean vs run
×10^3
χ^2 / ndf 1.888e+05 / 100
p0 1.384e+05 ± 0.3224
138.7
138.6
138.5
138.4
138.3
138.2
pull
Entries 101
Mean −191.6
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60
−80

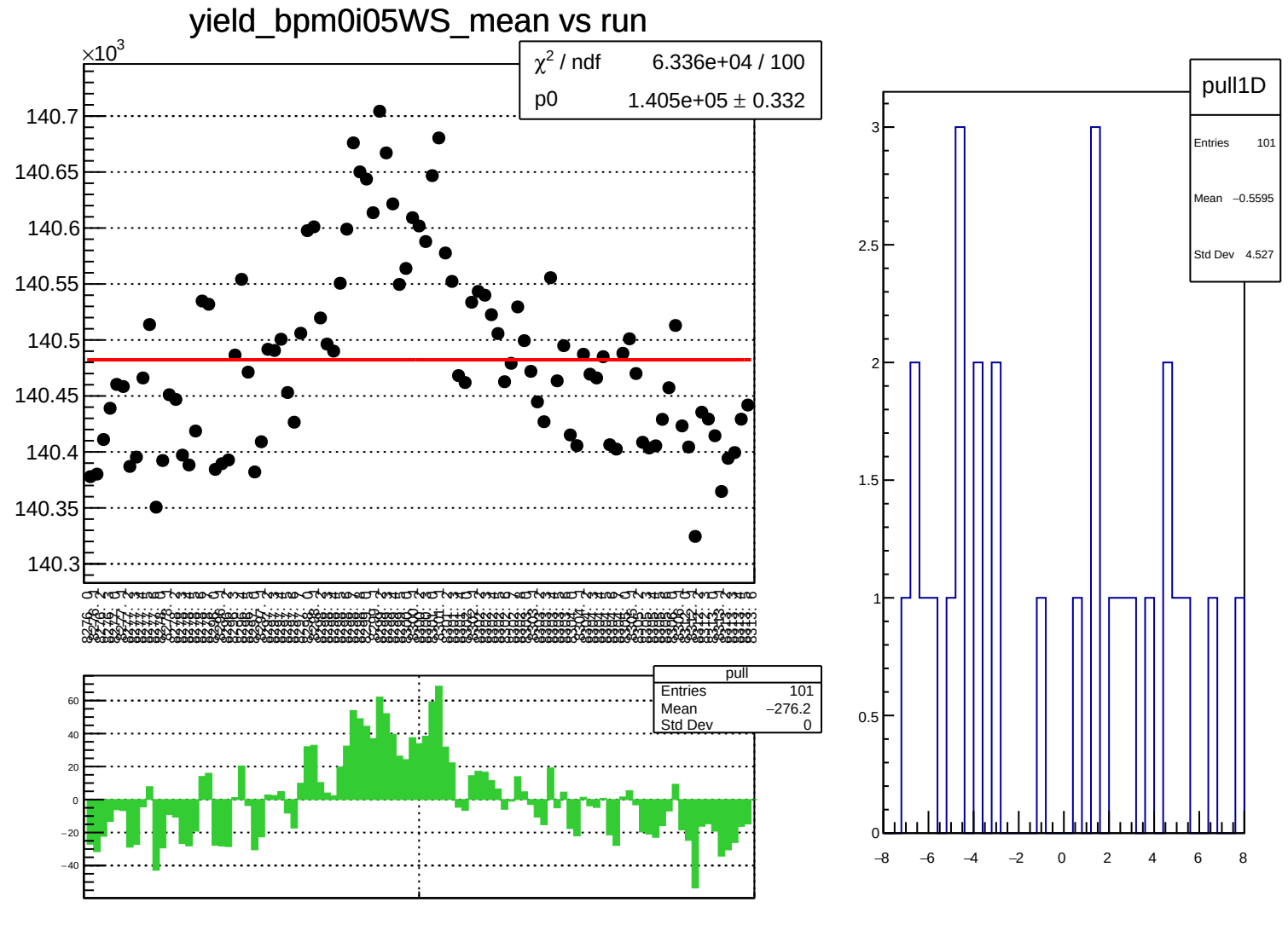

pull1D
Entries 101
Mean −0.5623
Std Dev 4.011
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

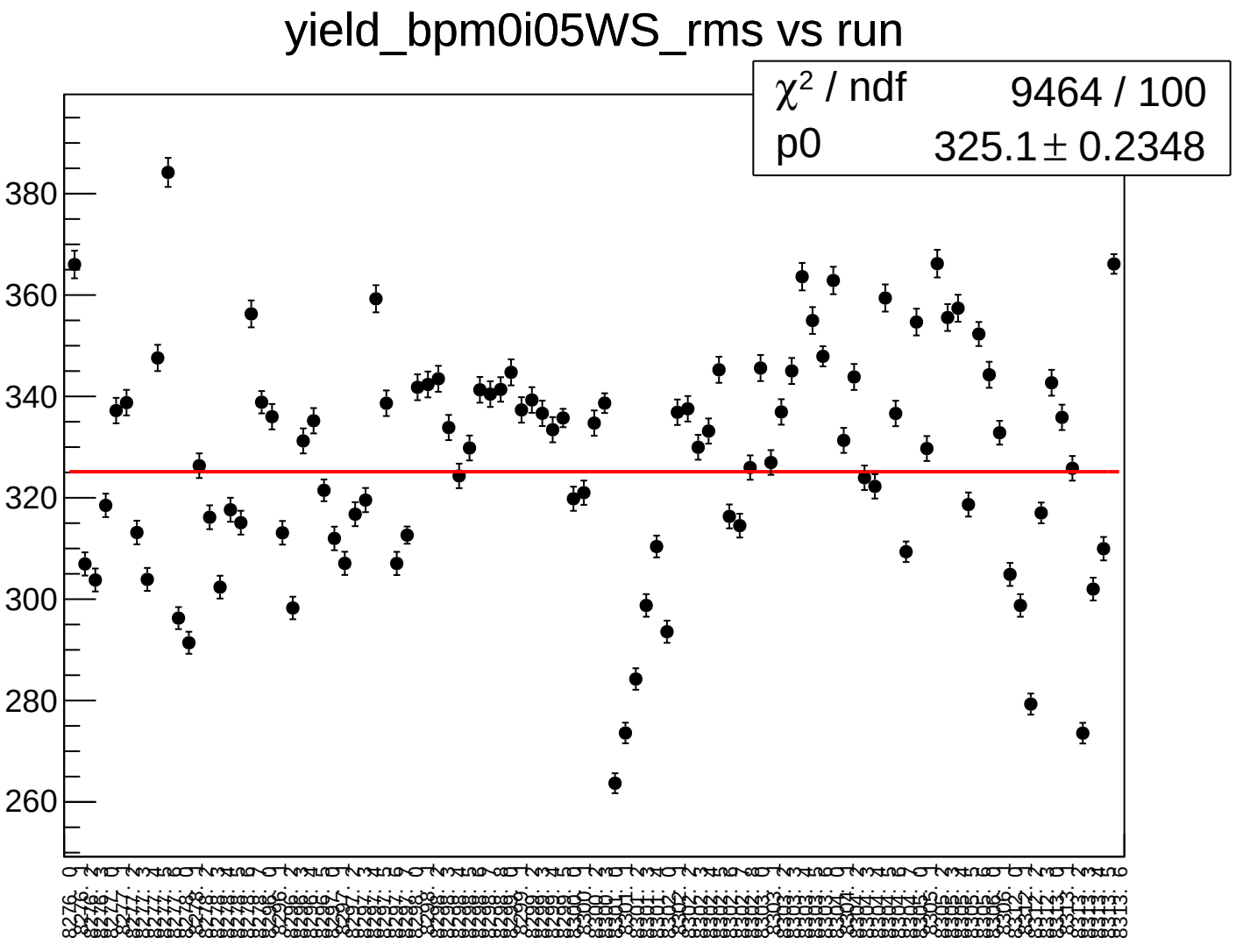

yield_bpm0i02WS_rms vs run
χ² / ndf 6221 / 100
p0 316 ± 0.228
360
340
320
300
280
260

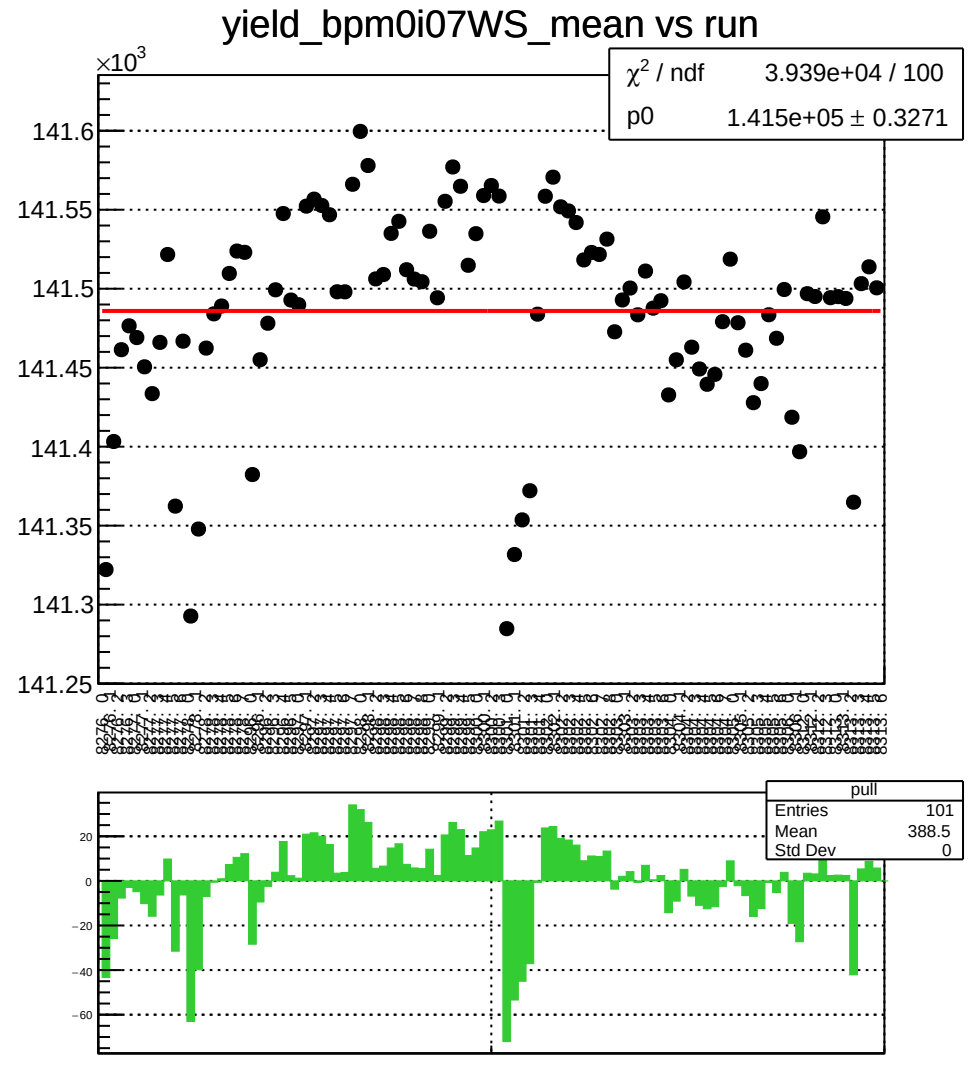

yield_bpm0i02aWS_mean vs run
×10^3
141.8
141.6
141.4
141.2
141
140.8
140.6
χ² / ndf 5.131e+05 / 100
p0 1.41e+05 ± 0.3592
pull
Entries 101
Mean −340.3
Std Dev 0
200
150
100
50
0
−50
−100

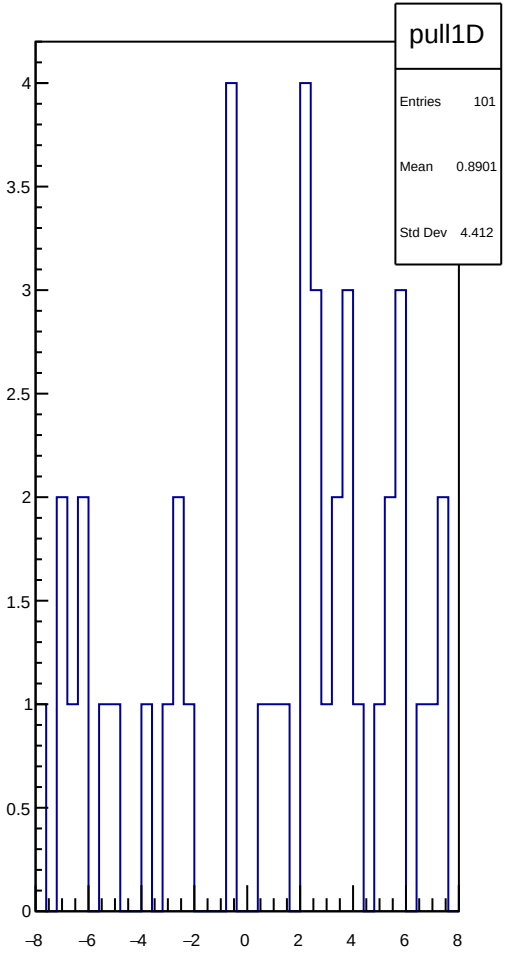

pull1D
Entries 101
Mean 0.5068
Std Dev 5.691
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

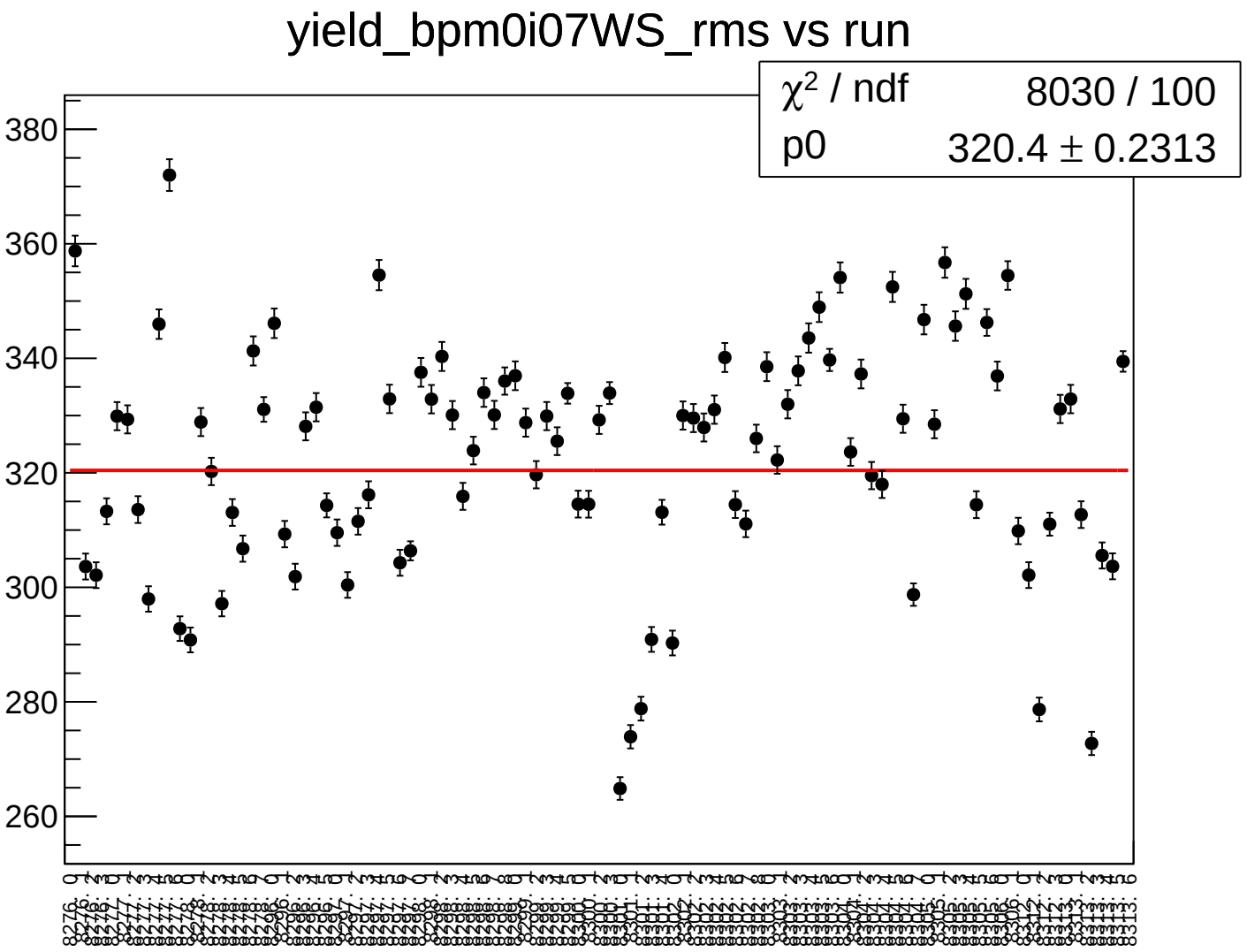

yield_bpm0i02aWS_rms vs run
χ² / ndf 9266 / 100
p0 351.8 ± 0.254
440
420
400
380
360
340
320
300
280

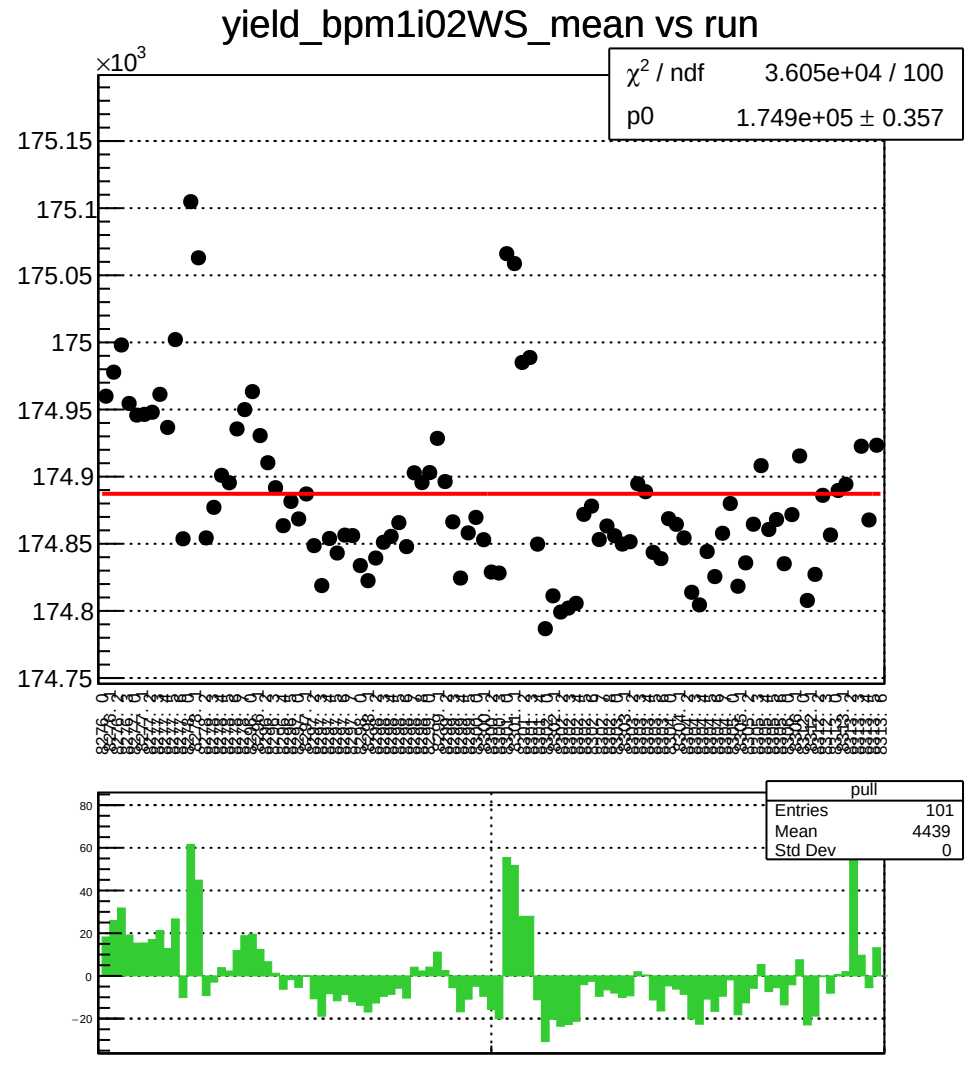

yield_bpm0i05WS_mean vs run
×10^3
χ^2 / ndf 6.336e+04 / 100
p0 1.405e+05 ± 0.332
140.7
140.65
140.6
140.55
140.5
140.45
140.4
140.35
140.3
pull
Entries 101
Mean −276.2
Std Dev 0
60
40
20
0
−20
−40
pull1D
Entries 101
Mean −0.5595
Std Dev 4.527
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

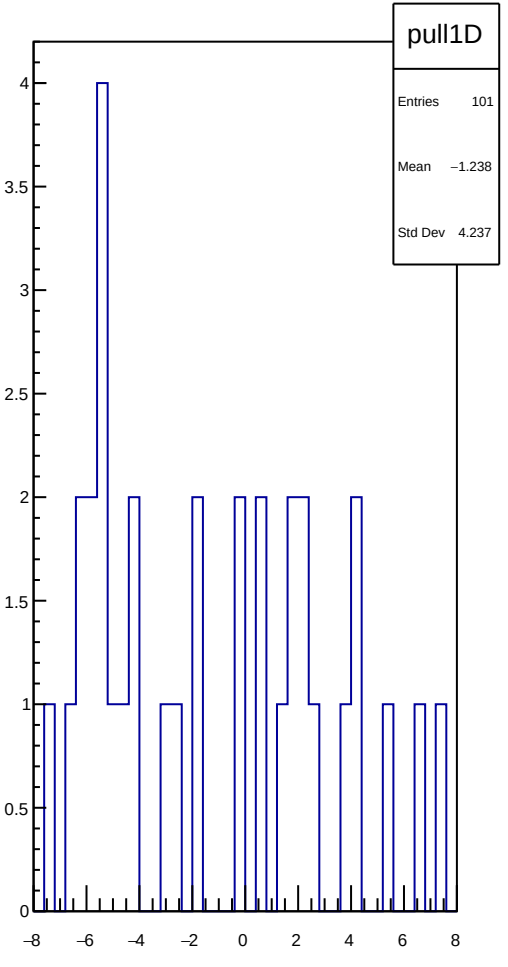

yield_bpm0i05WS_rms vs run
χ² / ndf 9464 / 100
p0 325.1 ± 0.2348
380
360
340
320
300
280
260

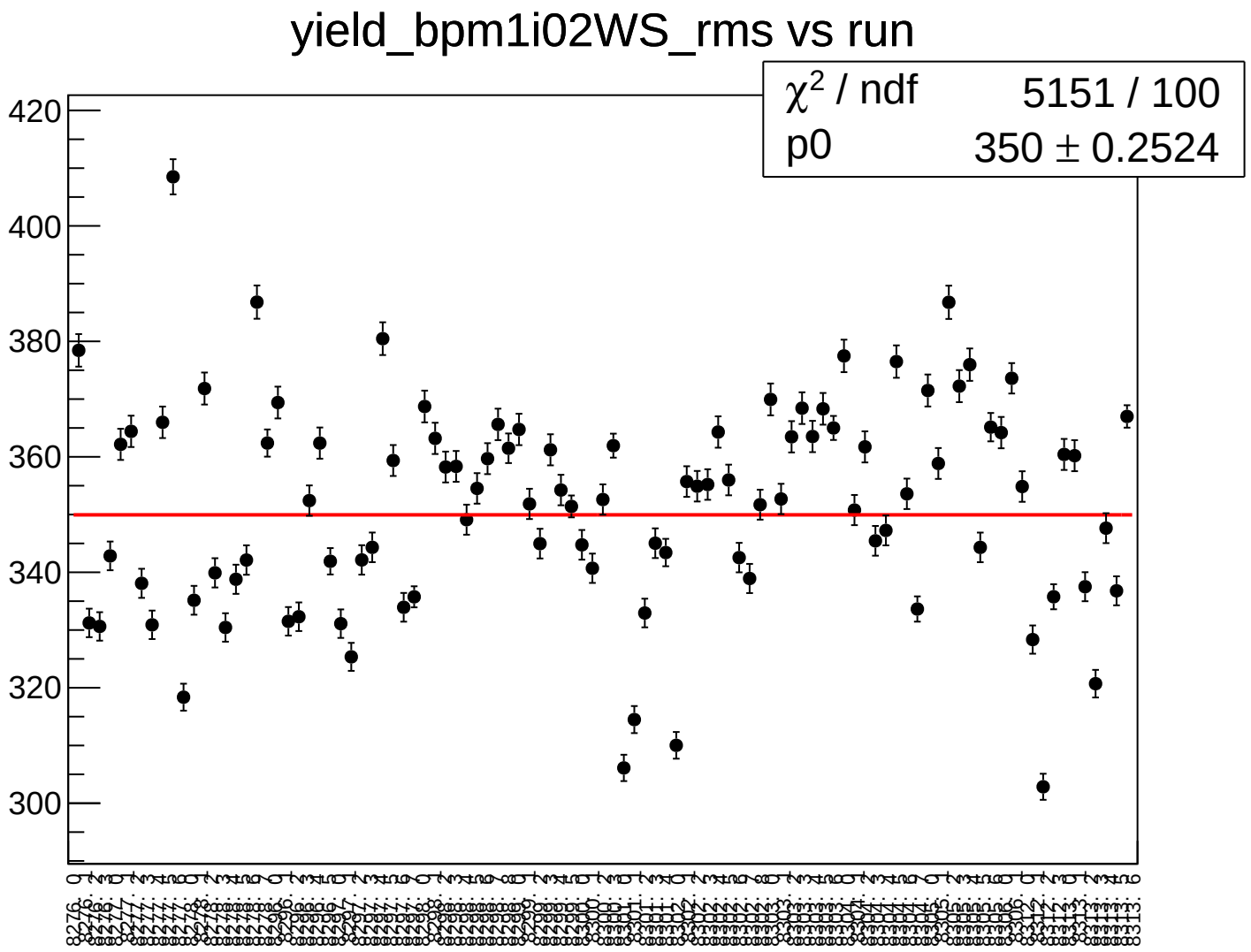

yield_bpm0i07WS_mean vs run
×10^3
χ^2 / ndf 3.939e+04 / 100
p0 1.415e+05 ± 0.3271
141.6
141.55
141.5
141.45
141.4
141.35
141.3
141.25
pull
Entries 101
Mean 388.5
Std Dev 0
20
0
−20
−40
−60

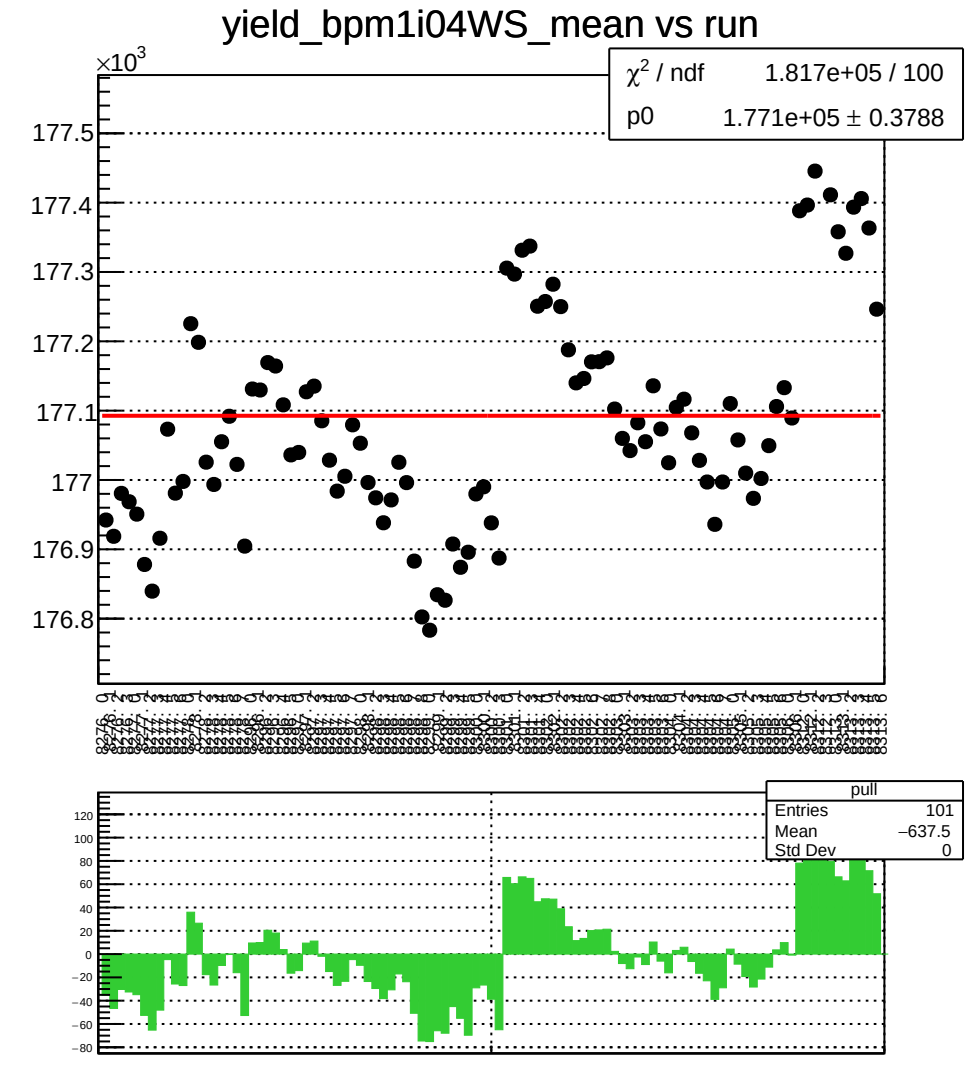

pull1D
Entries 101
Mean 0.8901
Std Dev 4.412
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

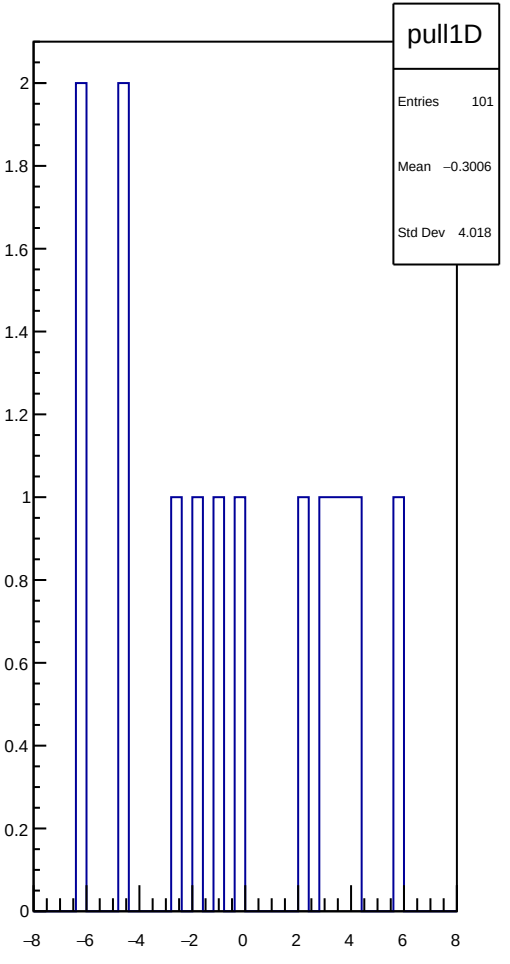

yield_bpm0i07WS_rms vs run
χ² / ndf 8030 / 100
p0 320.4 ± 0.2313
380
360
340
320
300
280
260

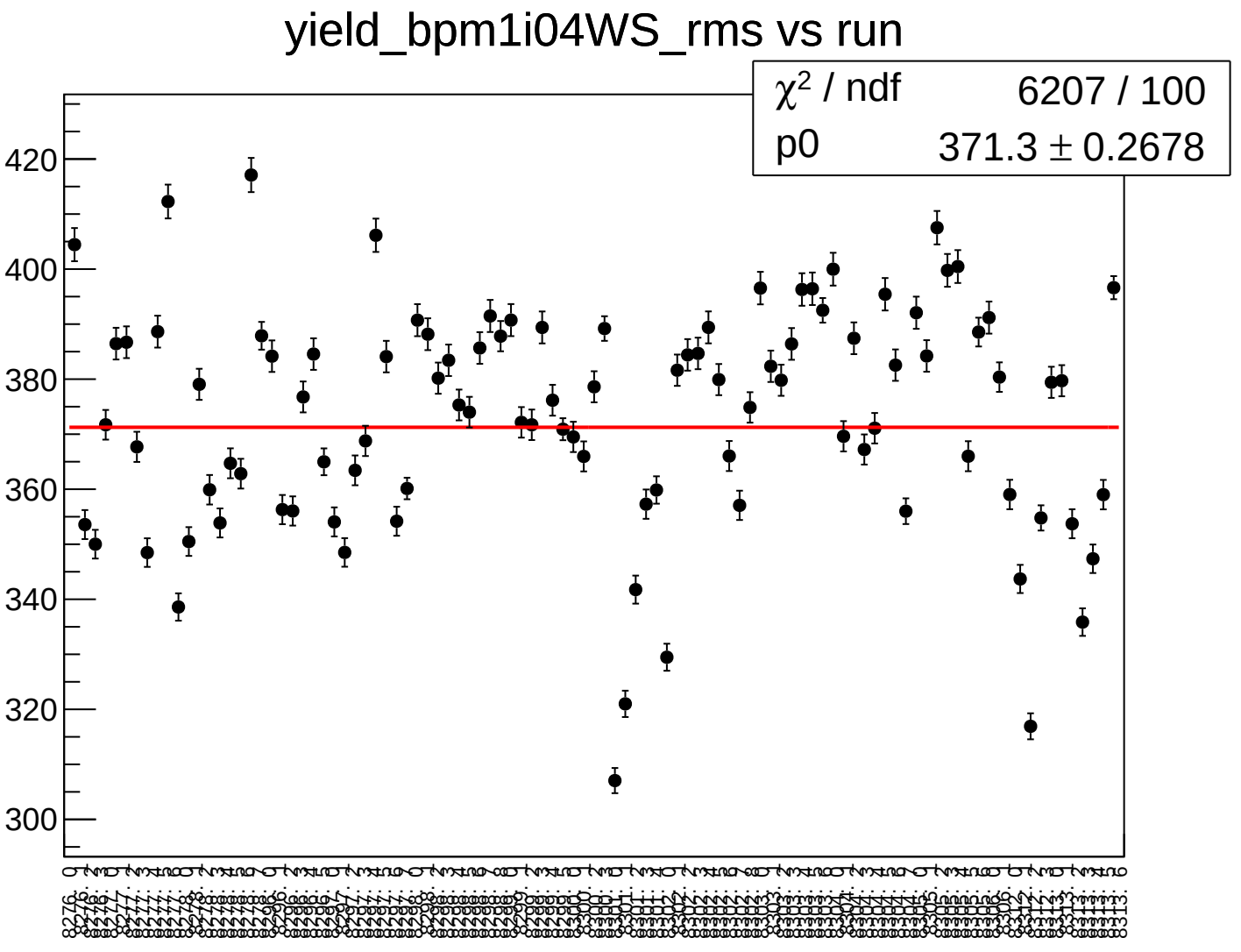

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 3.605e+04 / 100
p0 1.749e+05 ± 0.357
175.15
175.1
175.05
175
174.95
174.9
174.85
174.8
174.75
pull
Entries 101
Mean 4439
Std Dev 0
80
60
40
20
0
−20

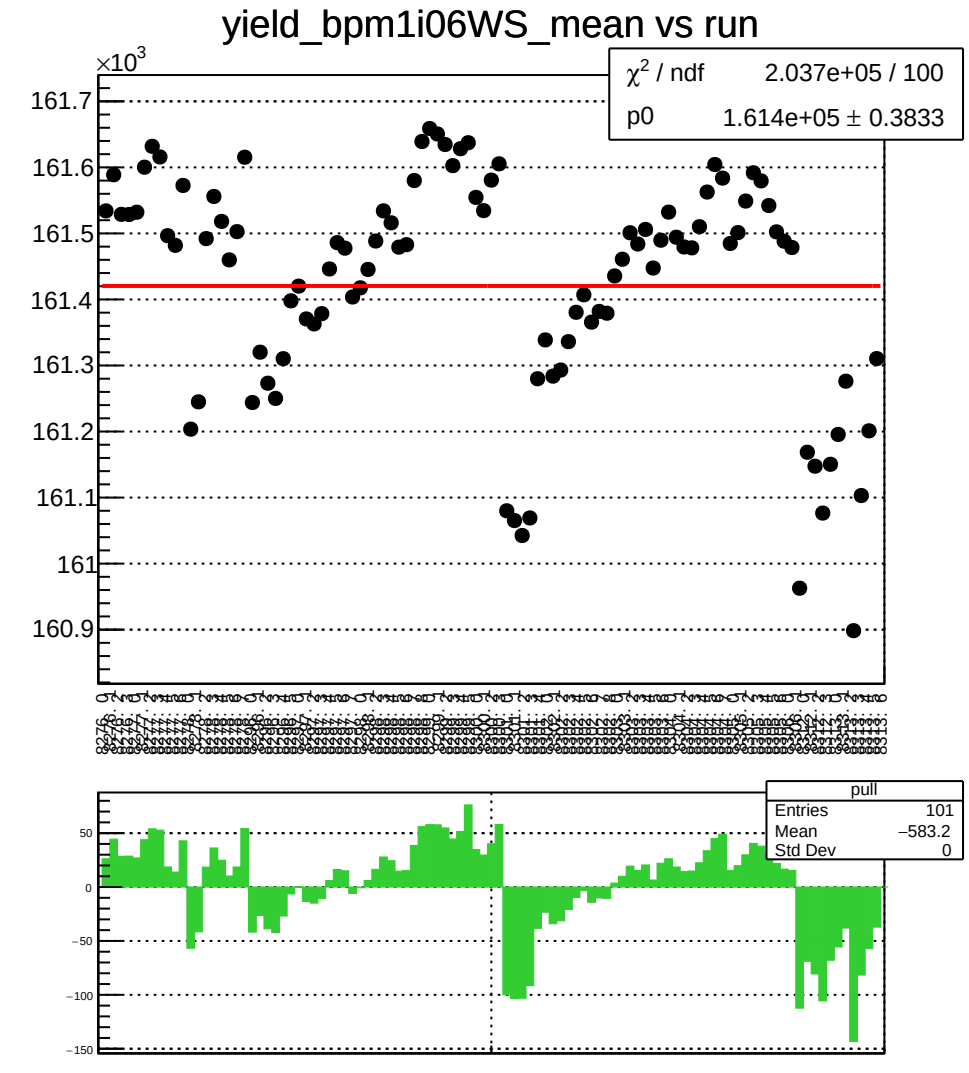

pull1D
Entries 101
Mean −1.238
Std Dev 4.237
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

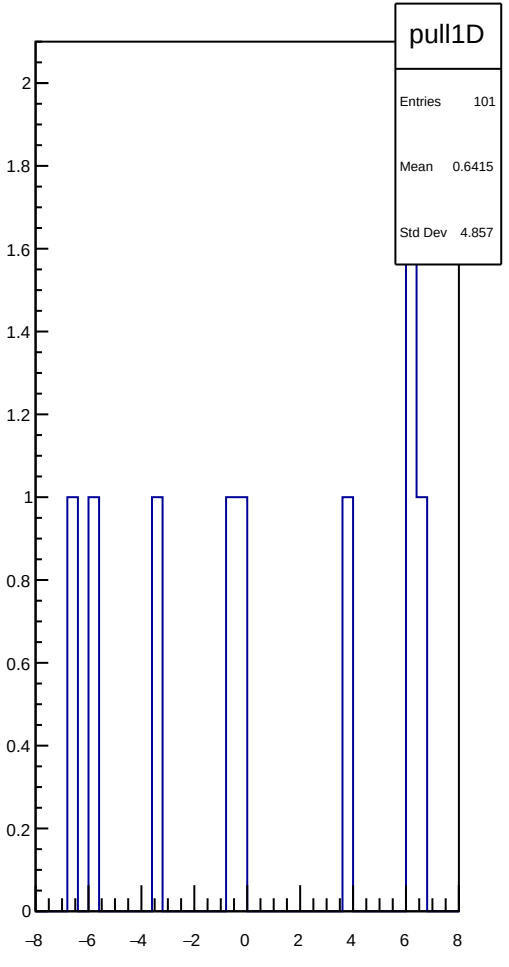

yield_bpm1i02WS_rms vs run
χ² / ndf 5151 / 100
p0 350 ± 0.2524
420
400
380
360
340
320
300

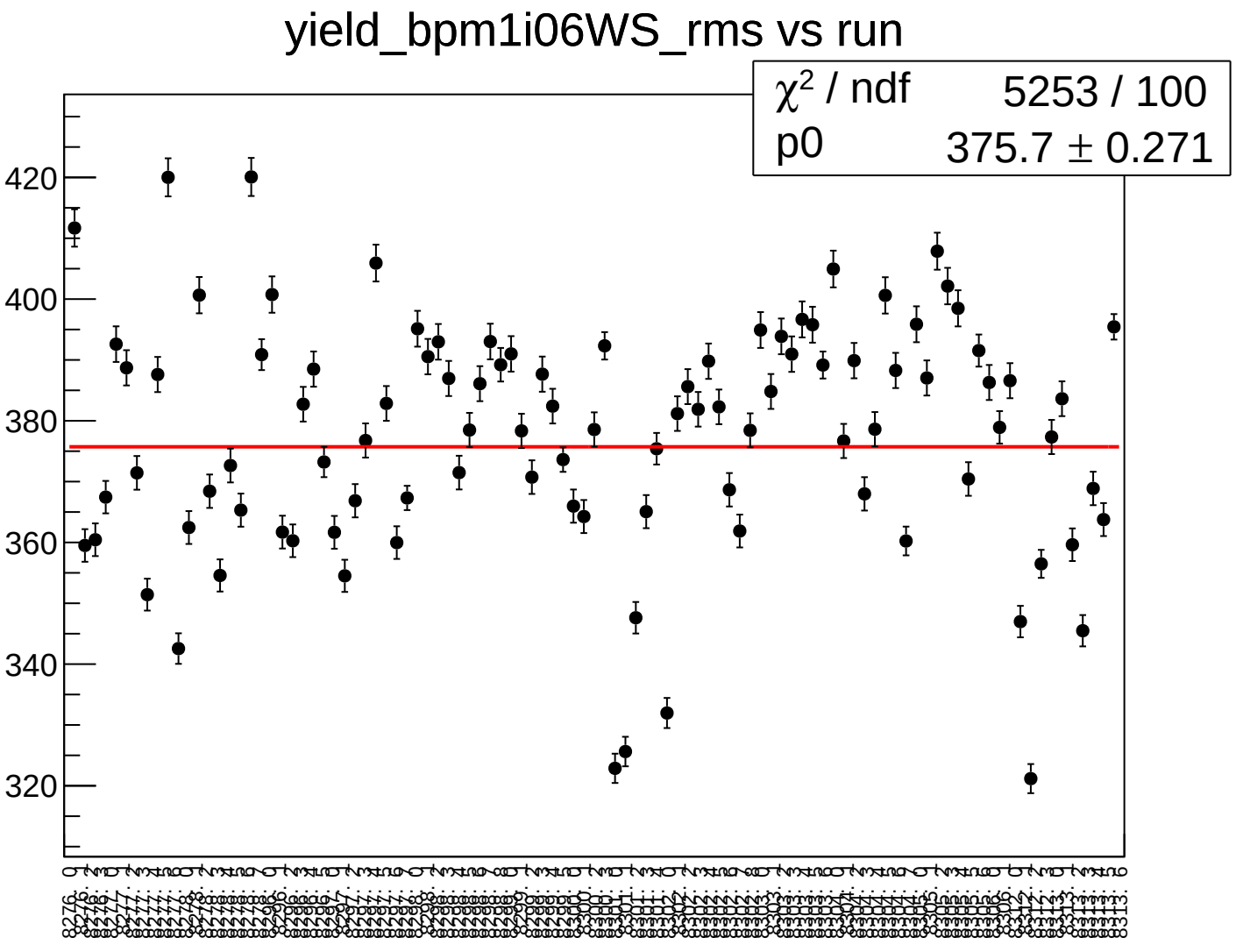

yield_bpm1i04WS_mean vs run
×10^3
χ^2 / ndf 1.817e+05 / 100
p0 1.771e+05 ± 0.3788
177.5
177.4
177.3
177.2
177.1
177
176.9
176.8
pull
Entries 101
Mean −637.5
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60
−80

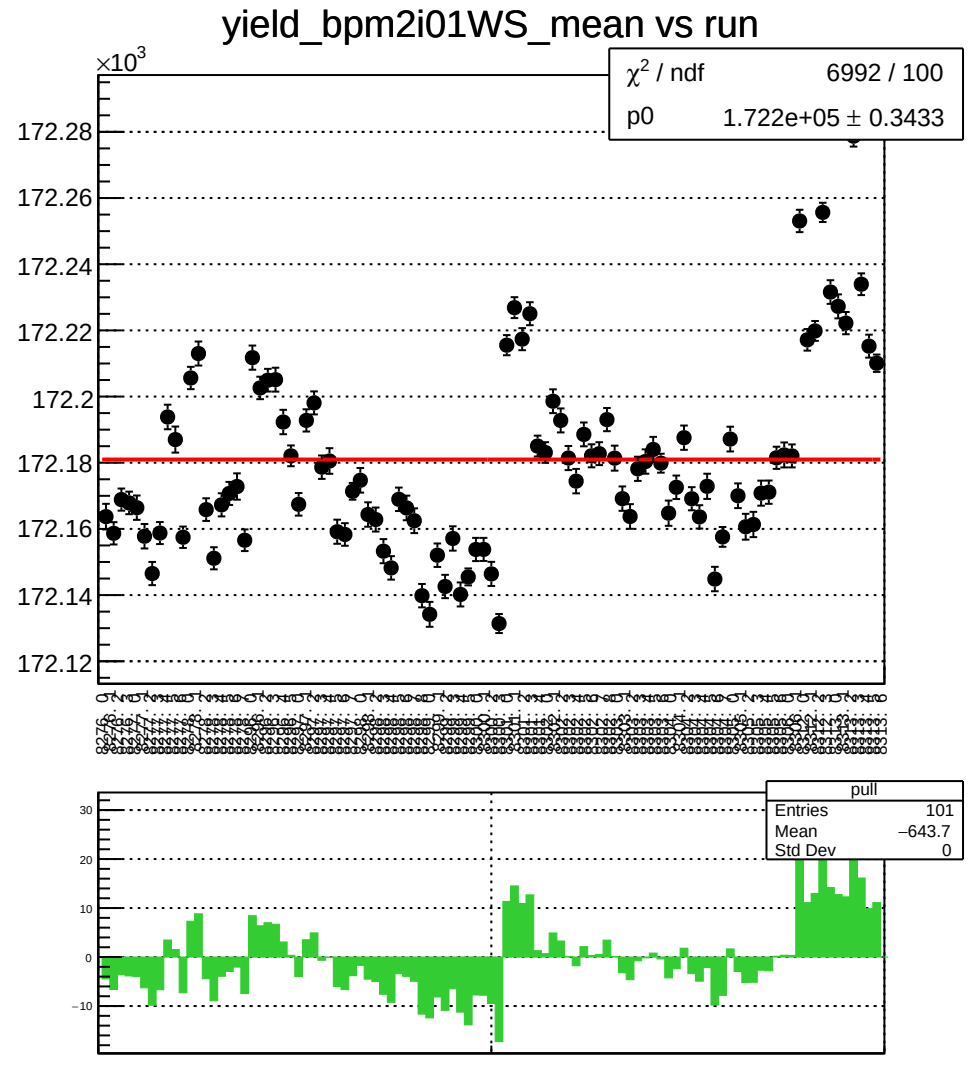

pull1D
Entries 101
Mean −0.3006
Std Dev 4.018
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

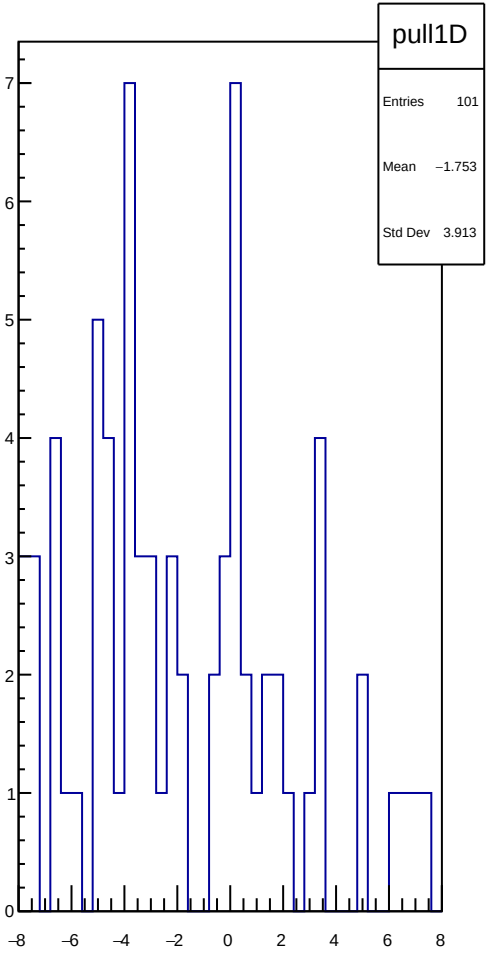

yield_bpm1i04WS_rms vs run
χ² / ndf 6207 / 100
p0 371.3 ± 0.2678
420
400
380
360
340
320
300

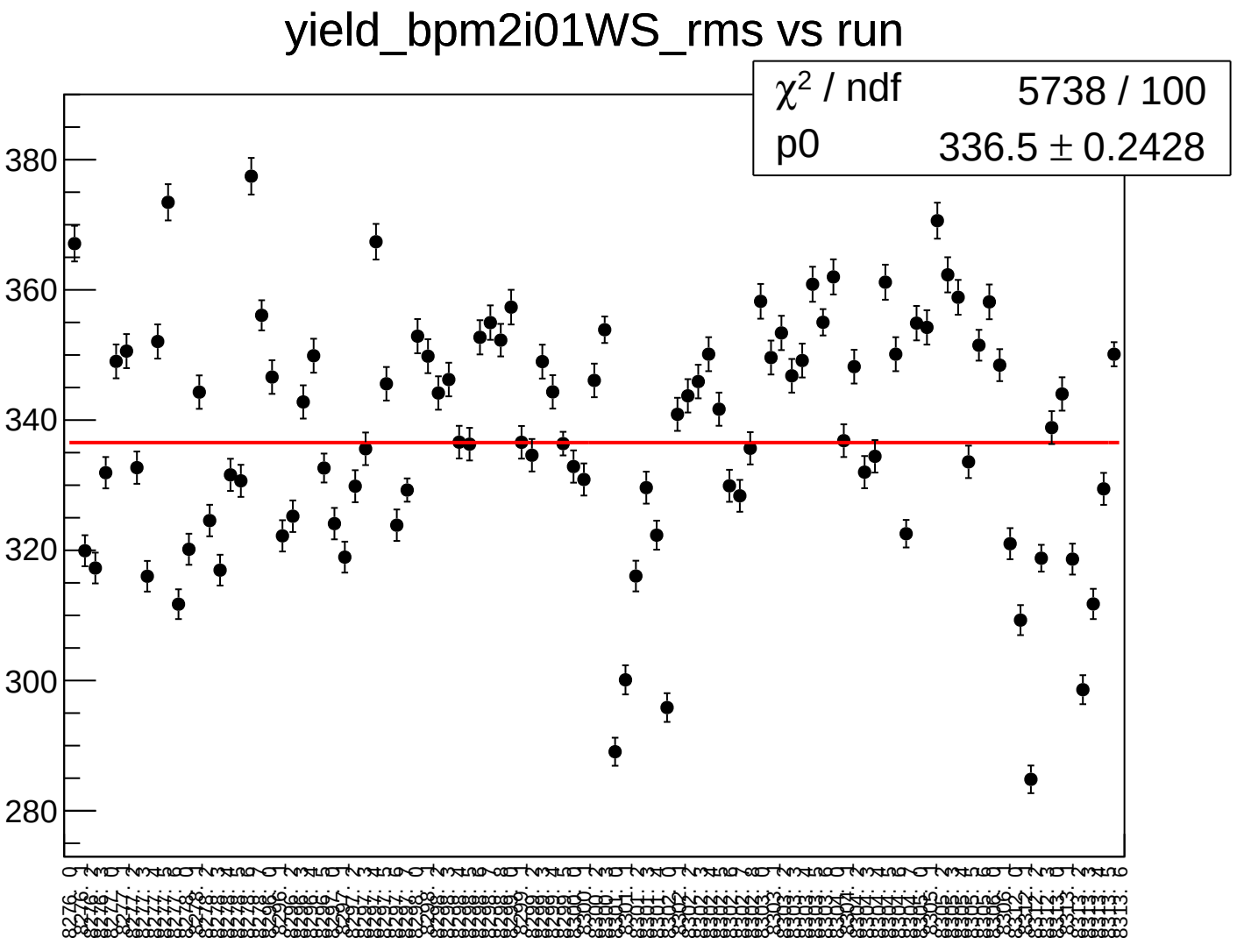

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 2.037e+05 / 100
p0 1.614e+05 ± 0.3833
161.7
161.6
161.5
161.4
161.3
161.2
161.1
161
160.9
pull
Entries 101
Mean −583.2
Std Dev 0
50
0
−50
−100
−150

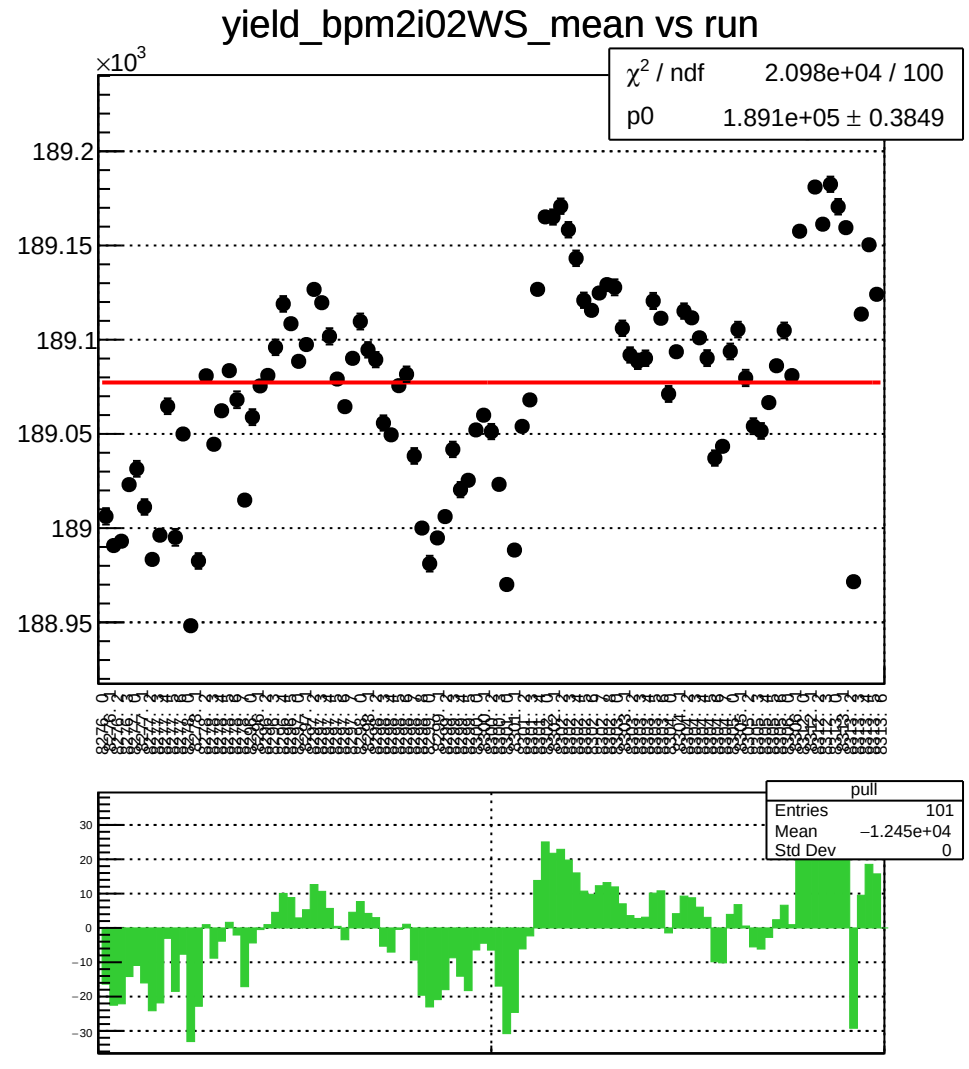

pull1D
Entries 101
Mean 0.6415
Std Dev 4.857
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

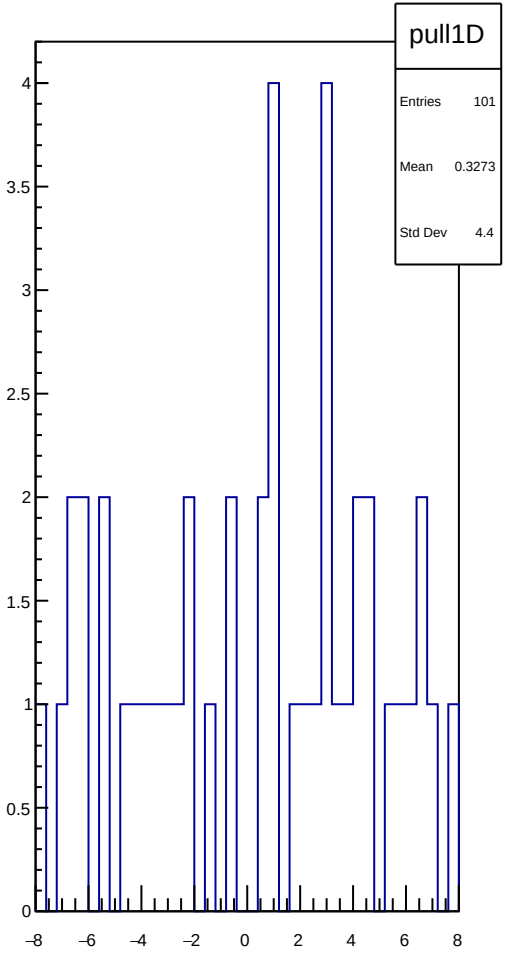

yield_bpm1i06WS_rms vs run
χ² / ndf 5253 / 100
p0 375.7 ± 0.271
420
400
380
360
340
320

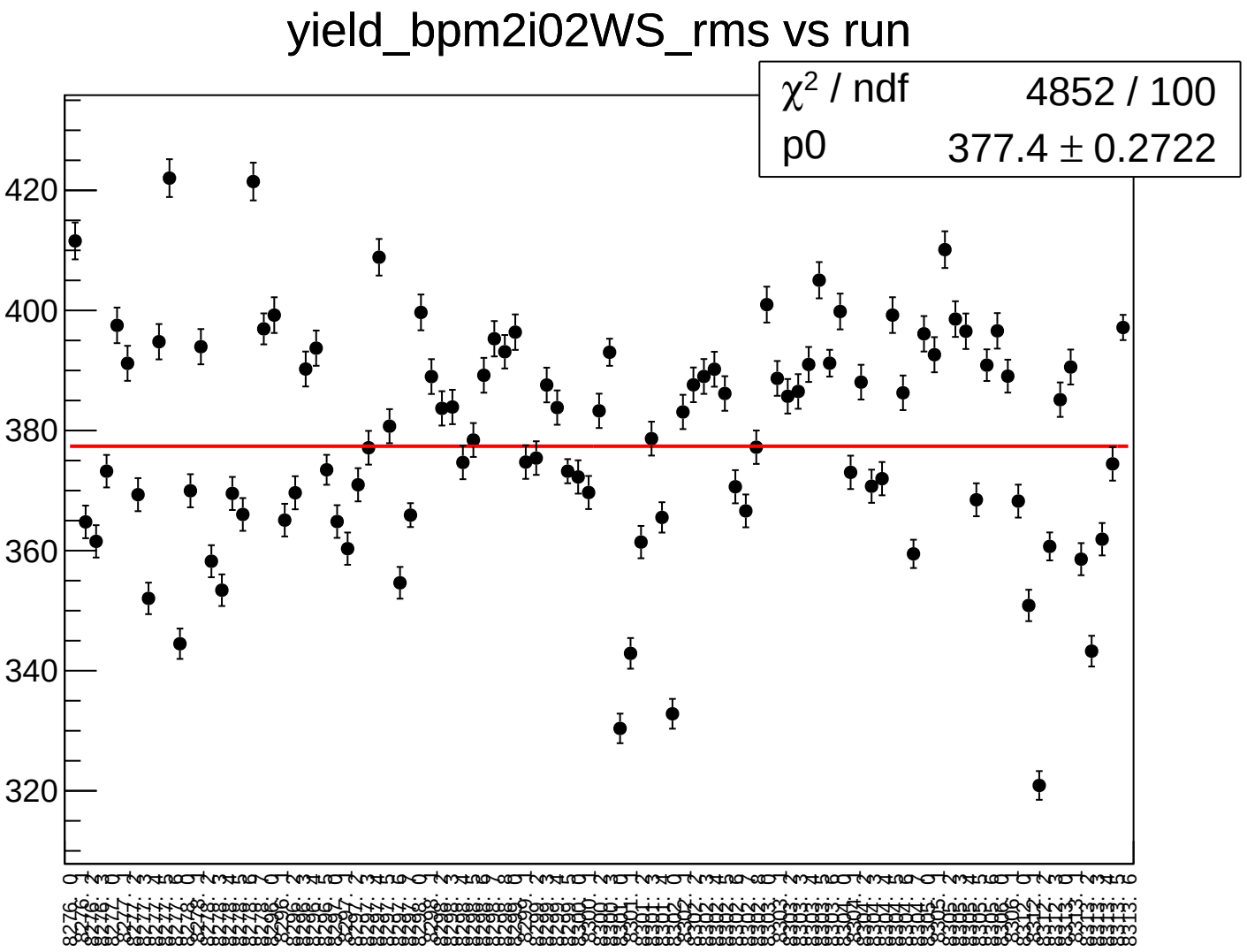

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 6992 / 100
p0 1.722e+05 ± 0.3433
172.28
172.26
172.24
172.22
172.2
172.18
172.16
172.14
172.12
pull
Entries 101
Mean −643.7
Std Dev 0
30
20
10
0
−10

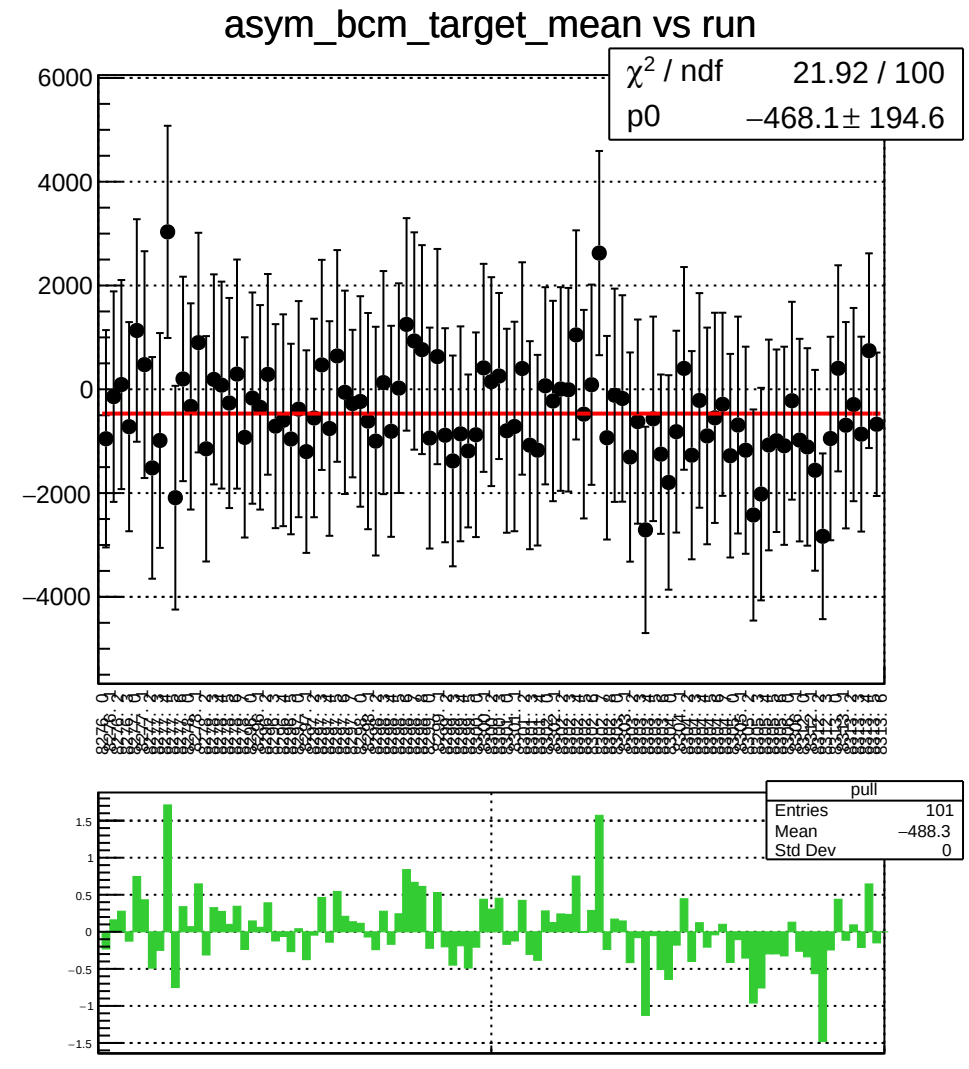

pull1D
Entries 101
Mean −1.753
Std Dev 3.913
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

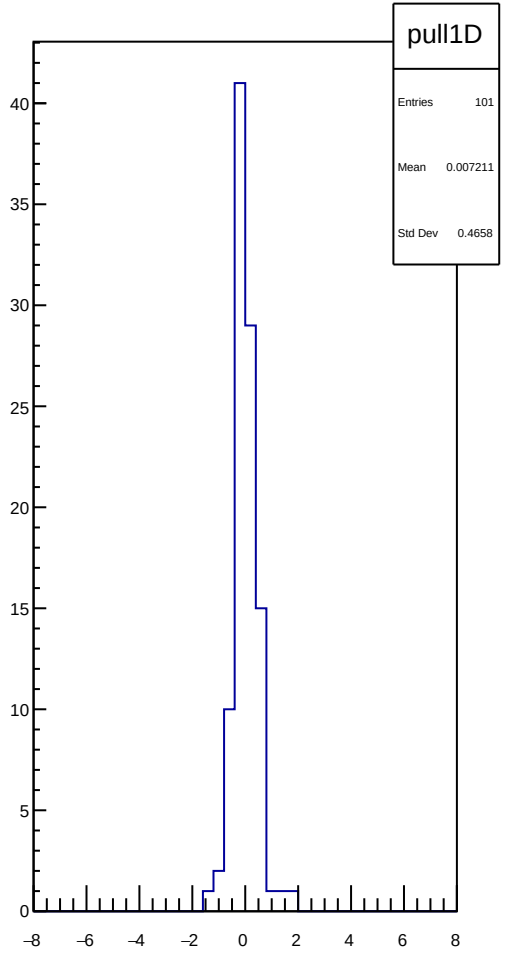

yield_bpm2i01WS_rms vs run
χ² / ndf 5738 / 100
p0 336.5 ± 0.2428
380
360
340
320
300
280

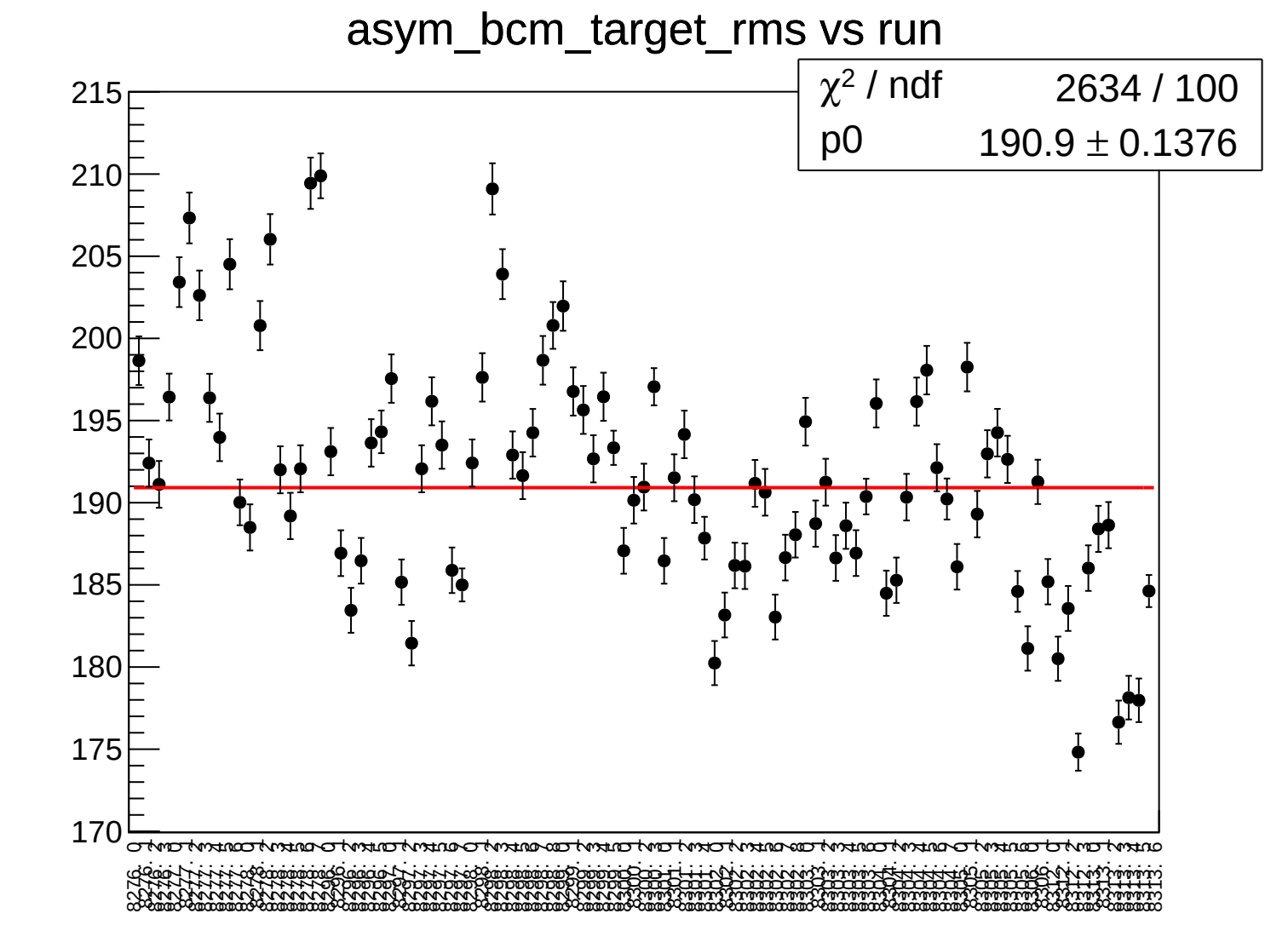

yield_bpm2i02WS_mean vs run
×10^3
χ^2 / ndf 2.098e+04 / 100
p0 1.891e+05 ± 0.3849
189.2
189.15
189.1
189.05
189
188.95
pull
Entries 101
Mean −1.245e+04
Std Dev 0
30
20
10
0
−10
−20
−30

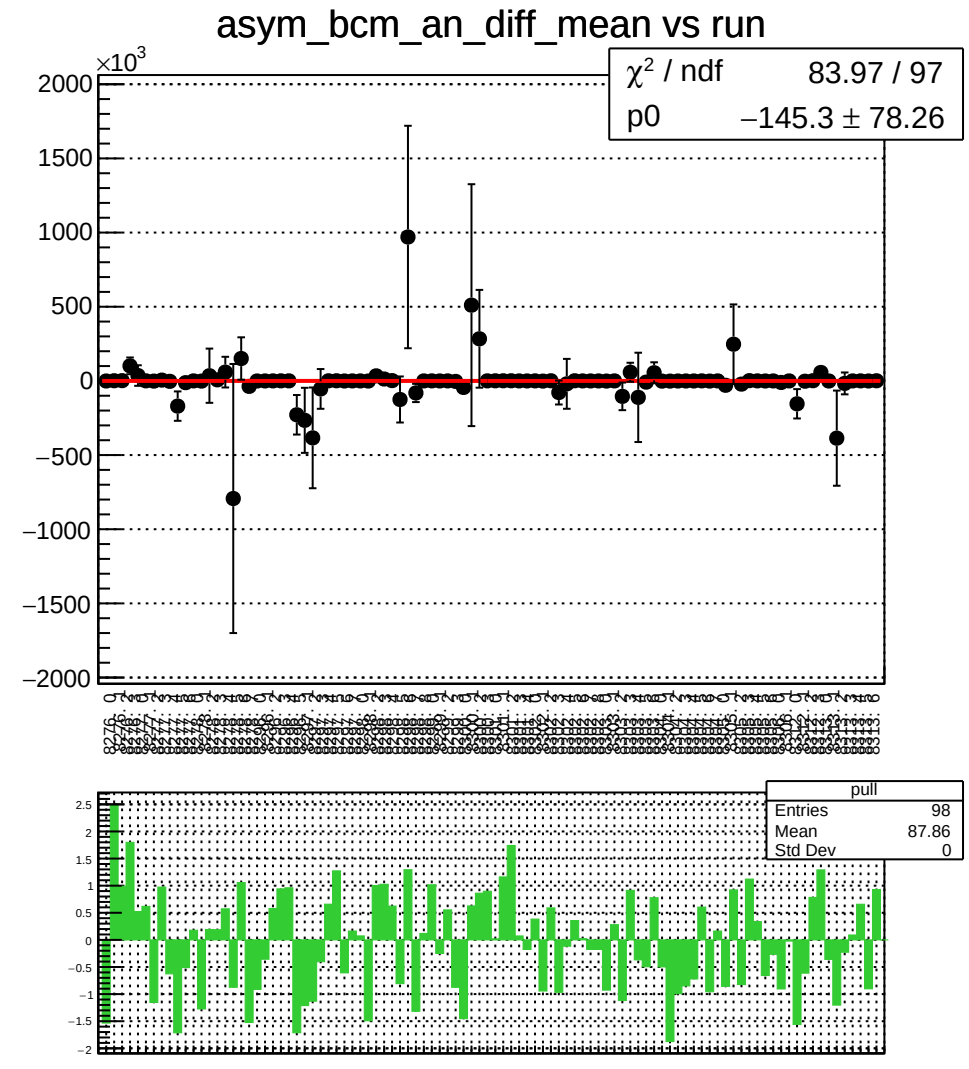

pull1D
Entries 101
Mean 0.3273
Std Dev 4.4
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

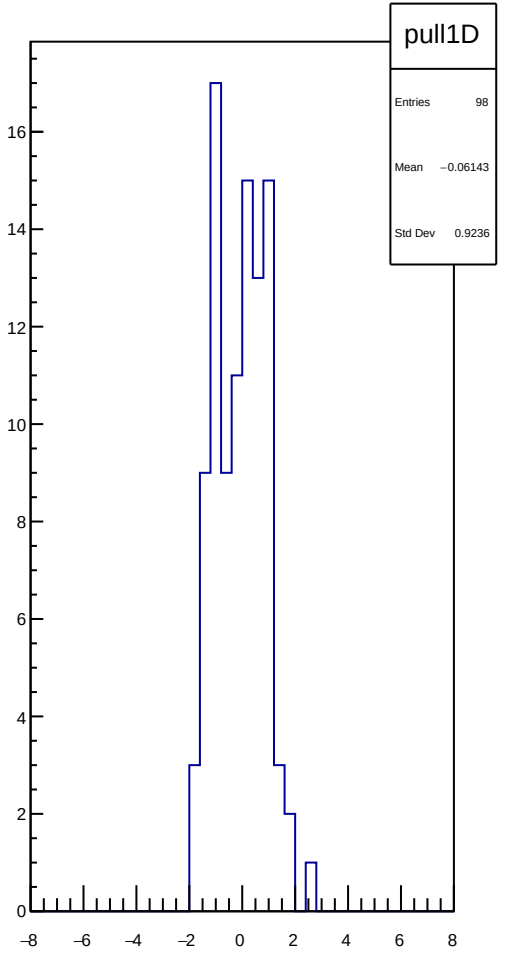

yield_bpm2i02WS_rms vs run
χ² / ndf 4852 / 100
p0 377.4 ± 0.2722
420
400
380
360
340
320

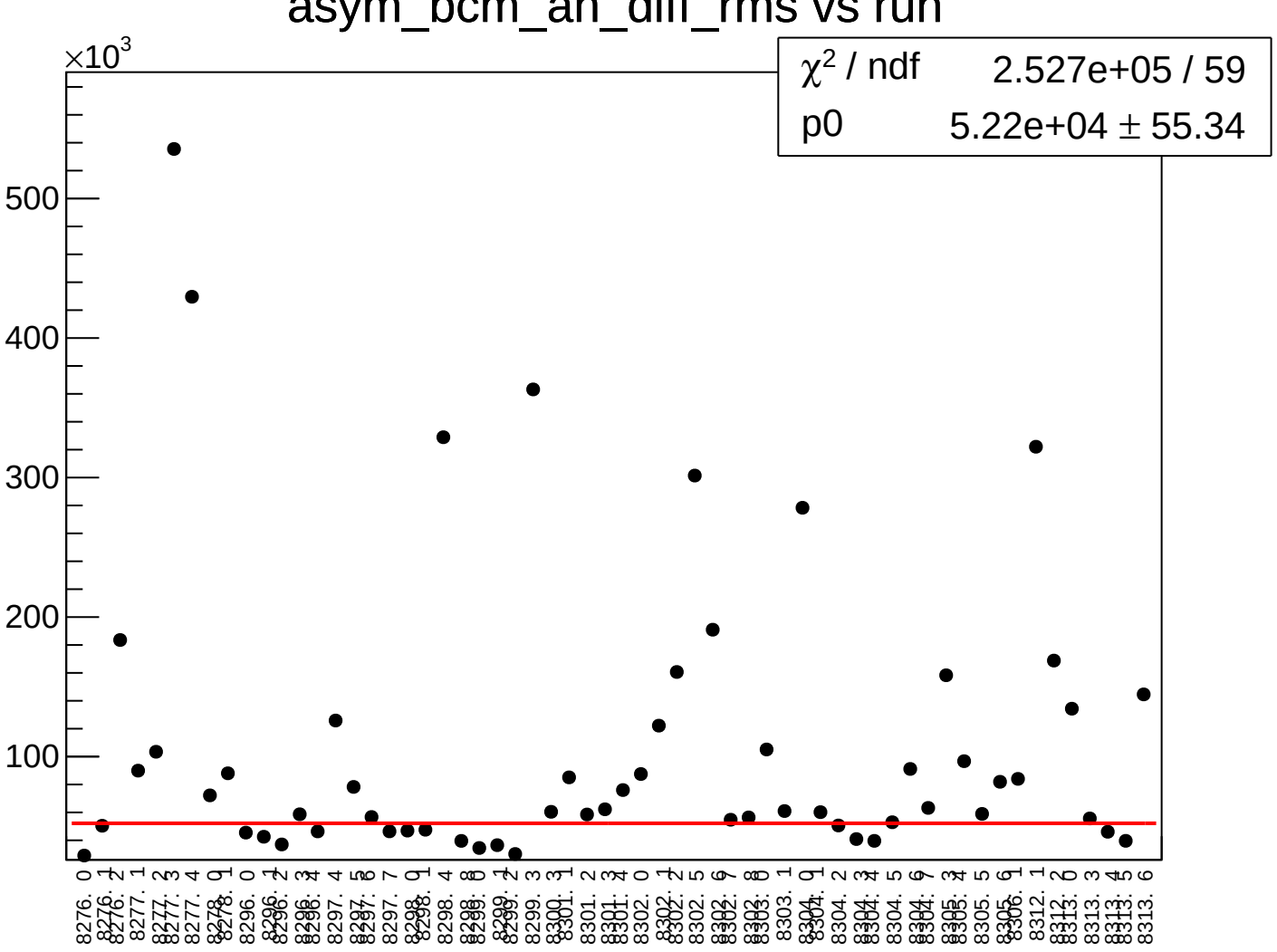

asym_bcm_target_mean vs run
χ² / ndf 21.92 / 100
p0 −468.1± 194.6
6000
4000
2000
0
−2000
−4000
pull
Entries 101
Mean −488.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

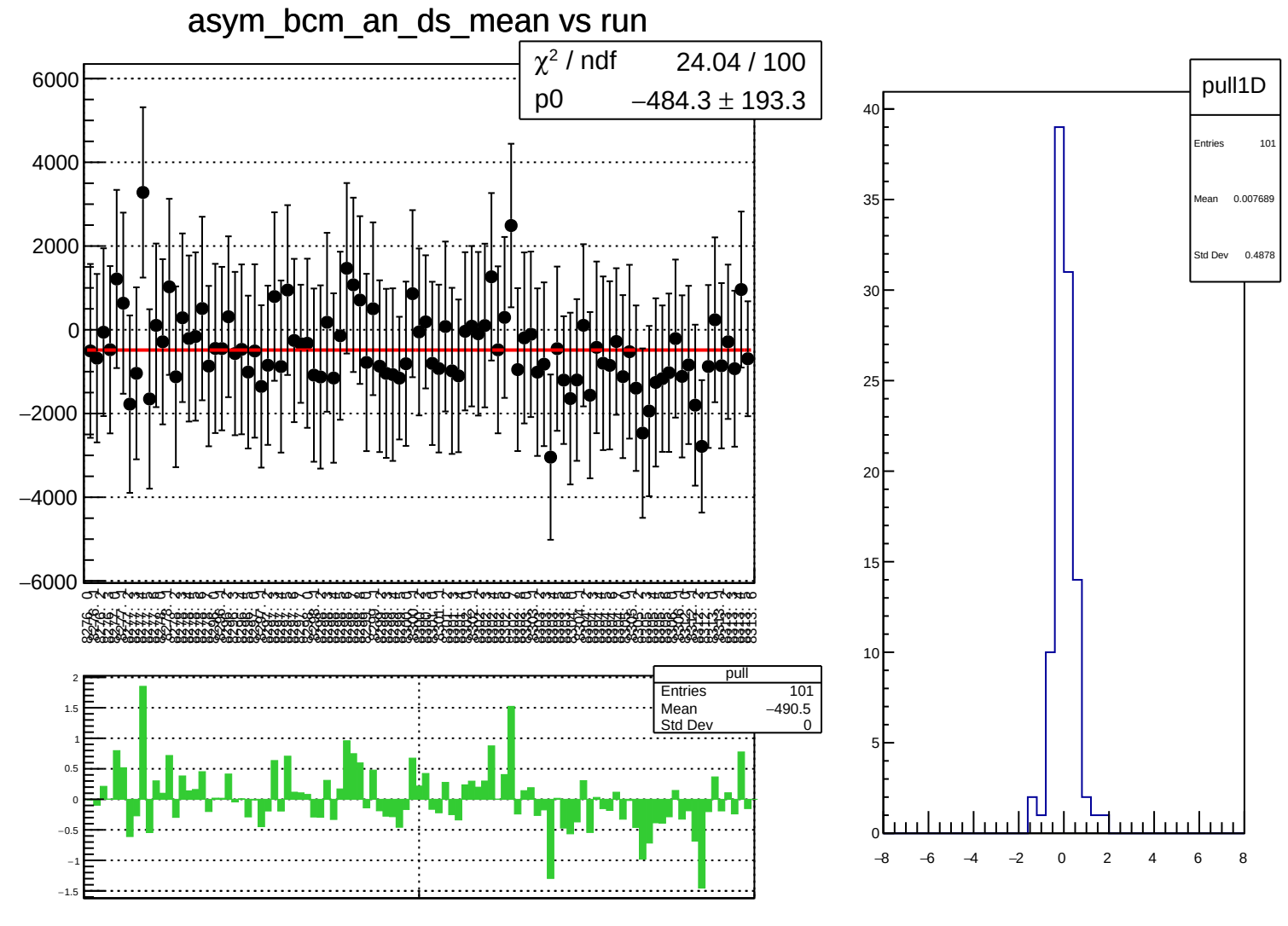

pull1D
Entries 101
Mean 0.007211
Std Dev 0.4658
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

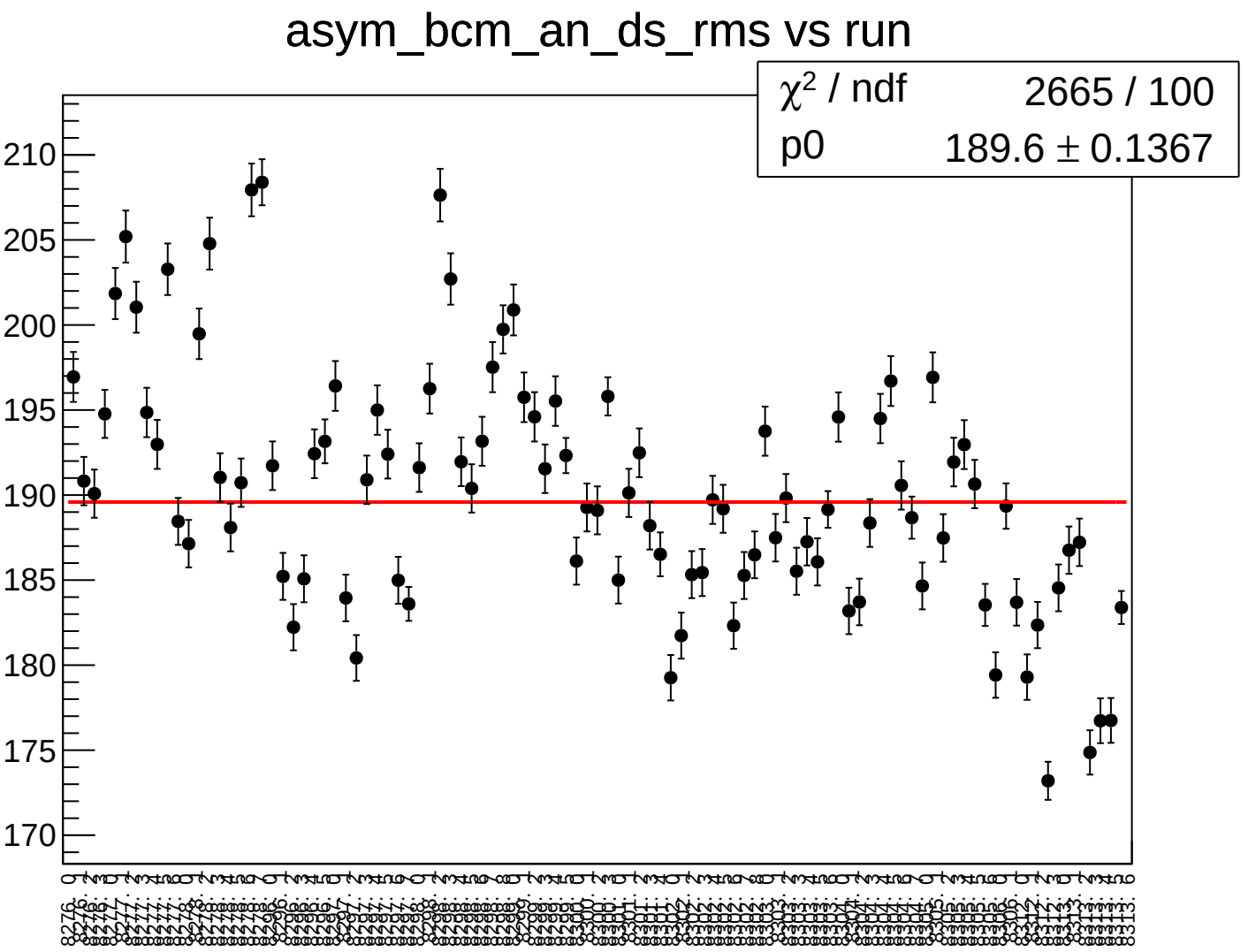

asym_bcm_target_rms vs run
χ² / ndf 2634 / 100
p0 190.9 ± 0.1376
215
210
205
200
195
190
185
180
175
170

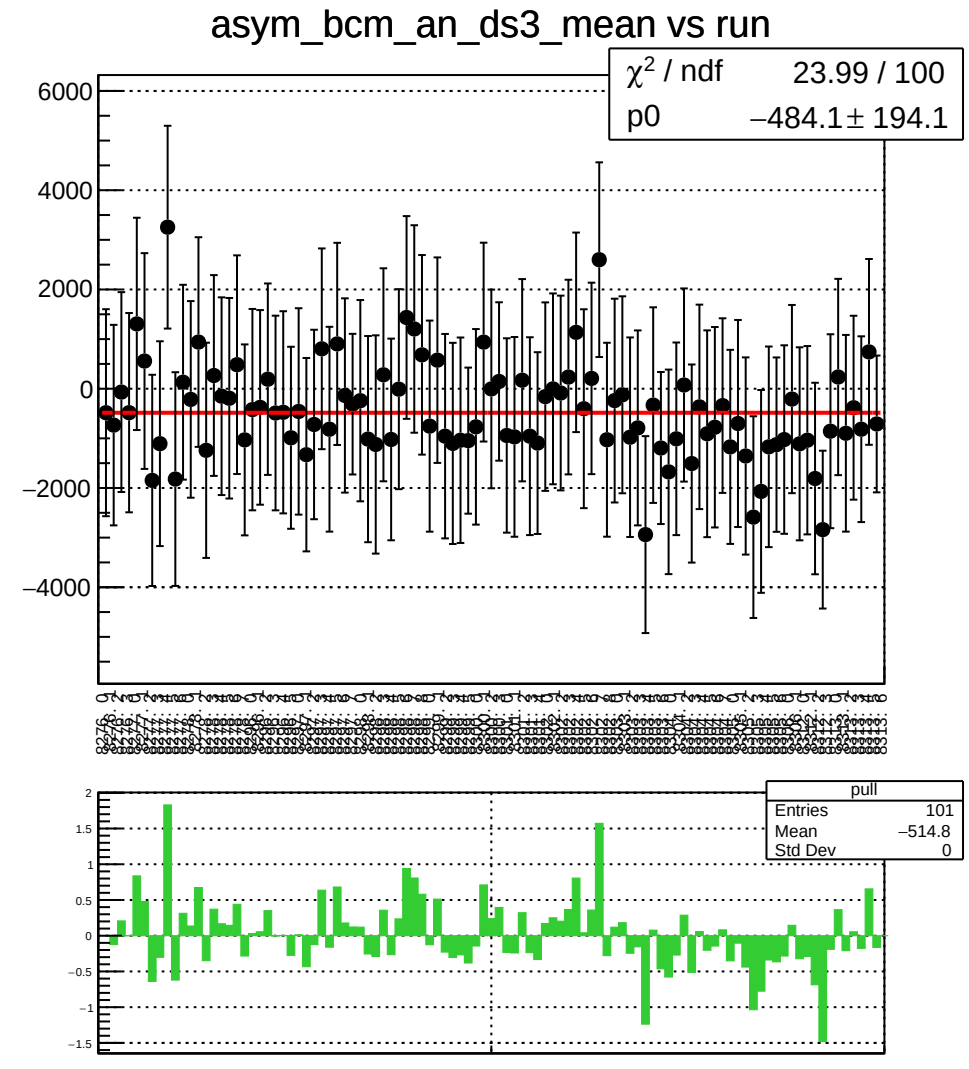

asym_bcm_an_diff_mean vs run
×10^3
χ² / ndf 83.97 / 97
p0 −145.3 ± 78.26
pull
Entries 98
Mean 87.86
Std Dev 0

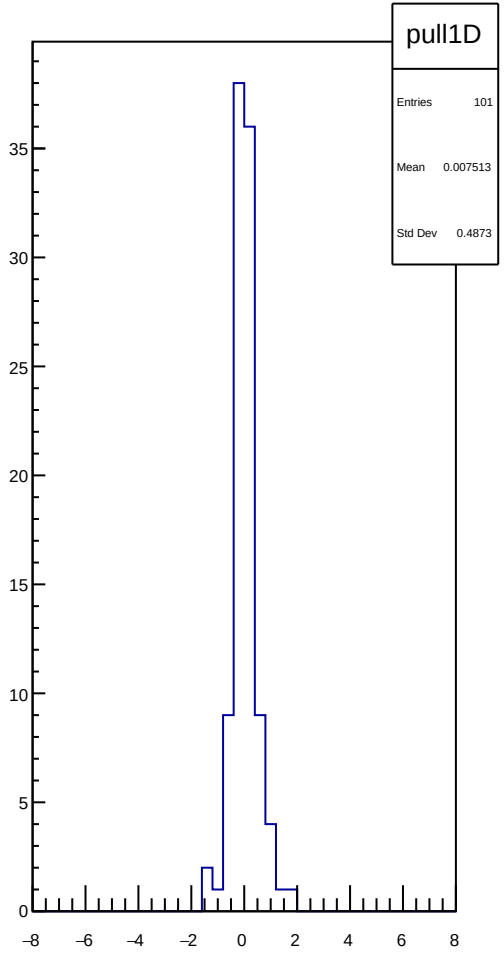

pull1D
Entries 98
Mean −0.06143
Std Dev 0.9236

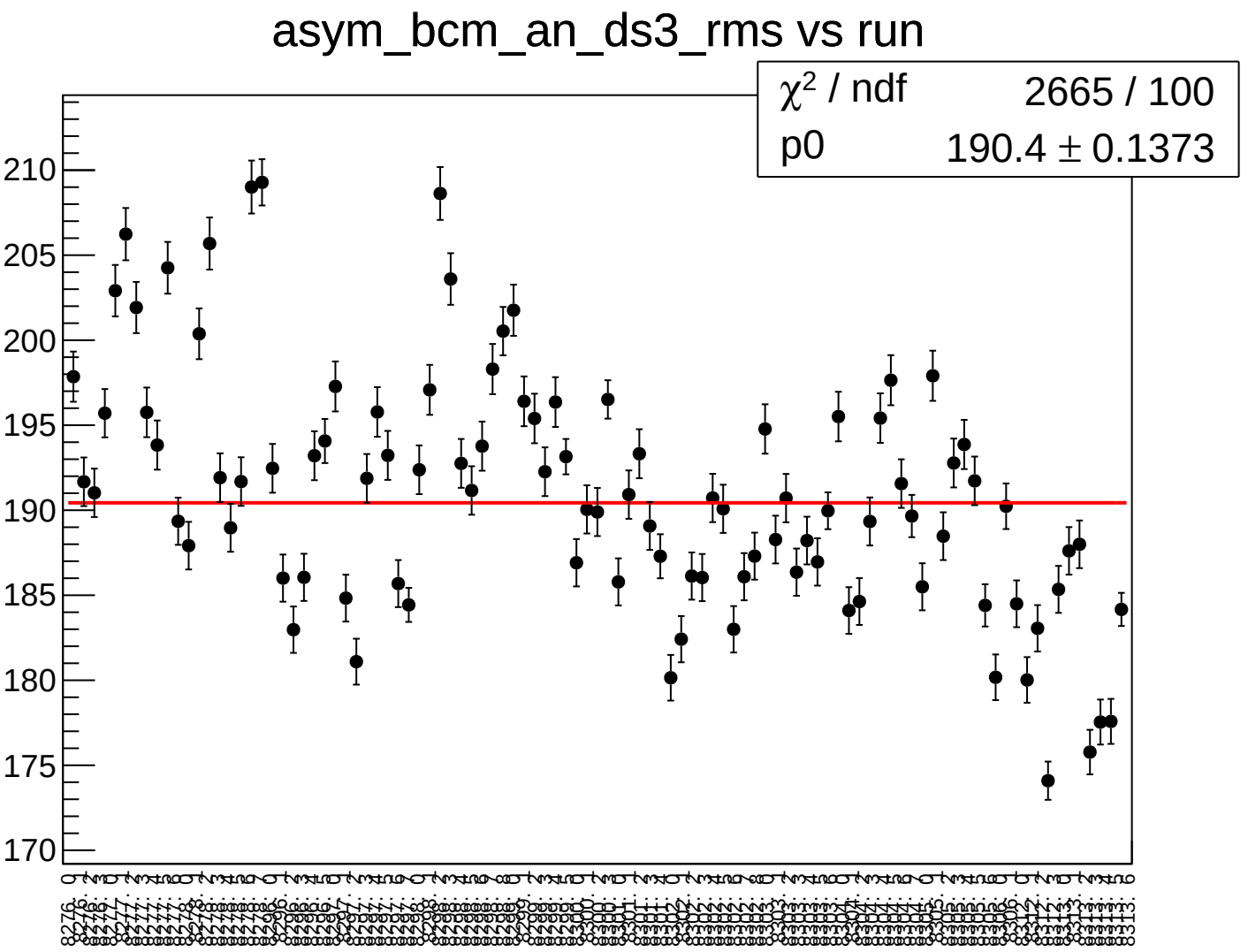

asym_bcm_an_diff_rms vs run
×10^3
χ^2 / ndf 2.527e+05 / 59
p0 5.22e+04 ± 55.34
500
400
300
200
100

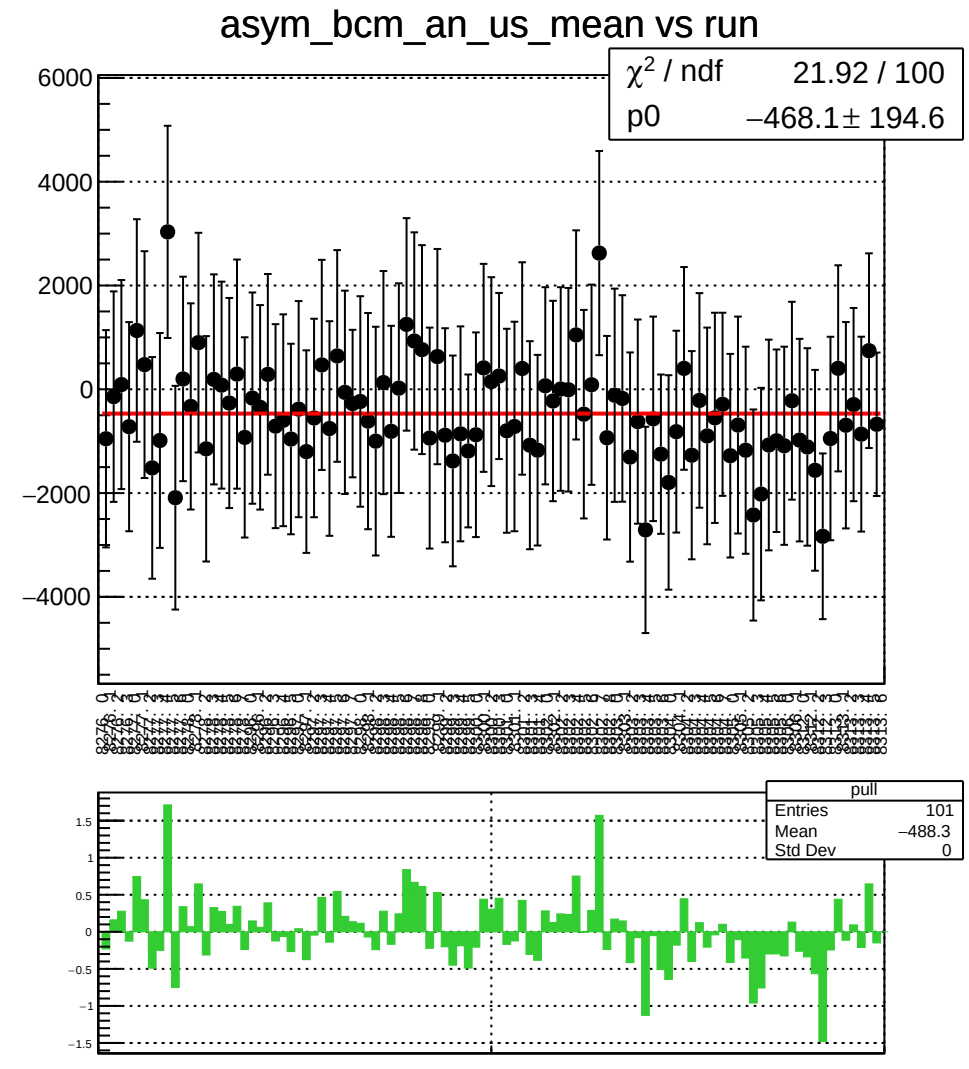

asym_bcm_an_ds_mean vs run
χ² / ndf 24.04 / 100
p0 −484.3 ± 193.3
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 101
Mean −490.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 101
Mean 0.007689
Std Dev 0.4878
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

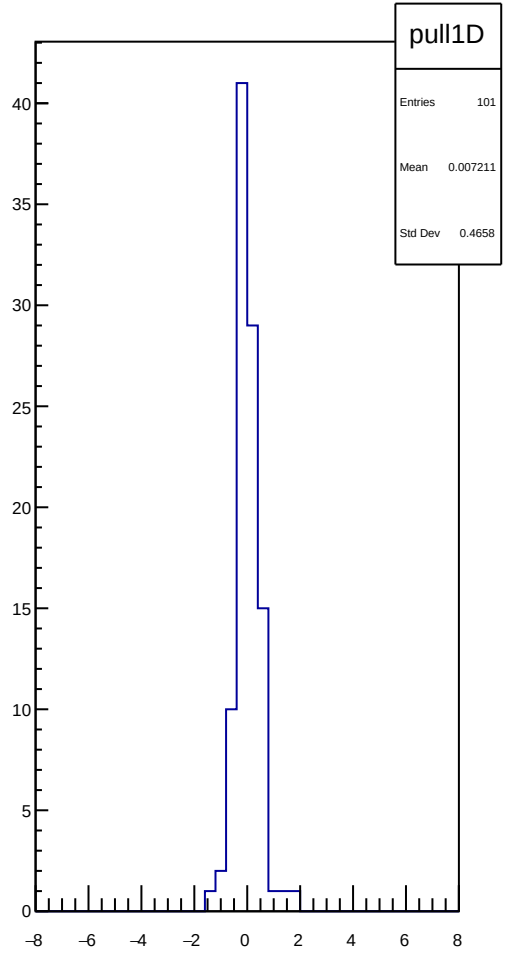

asym_bcm_an_ds_rms vs run
χ² / ndf 2665 / 100
p0 189.6 ± 0.1367
210
205
200
195
190
185
180
175
170

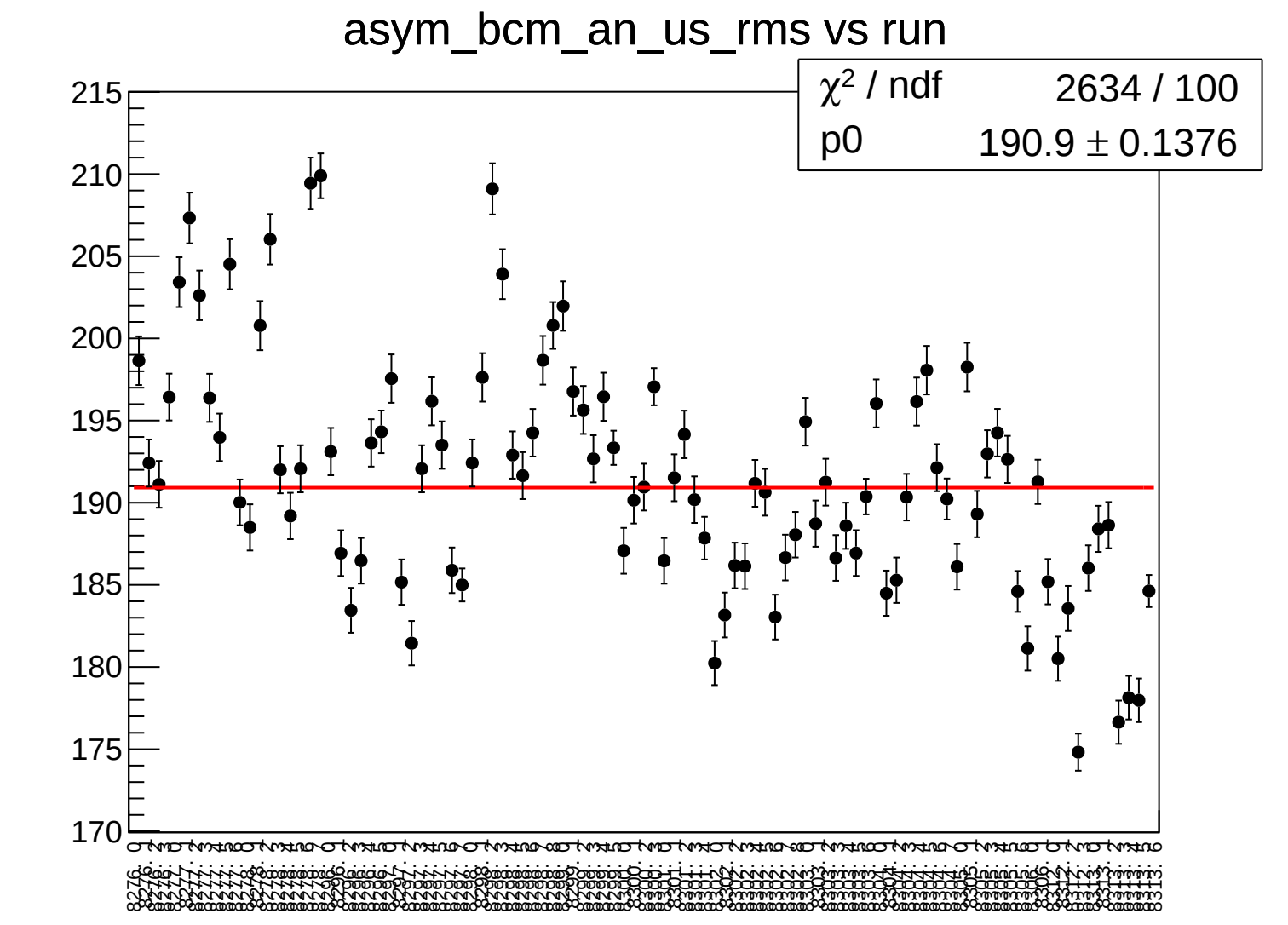

asym_bcm_an_ds3_mean vs run
χ² / ndf 23.99 / 100
p0 −484.1 ± 194.1
6000
4000
2000
0
−2000
−4000
pull
Entries 101
Mean −514.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

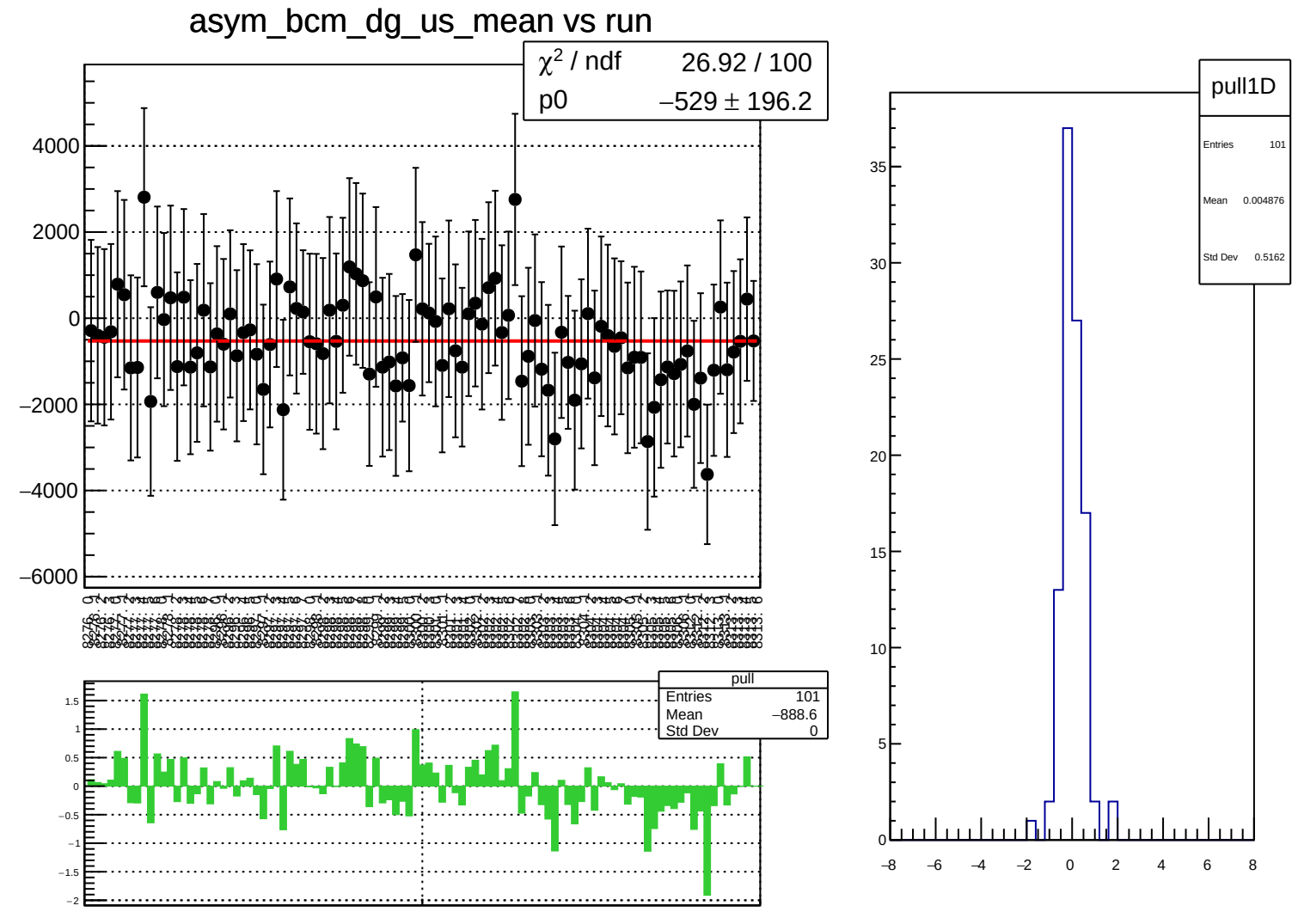

pull1D
Entries 101
Mean 0.007513
Std Dev 0.4873
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

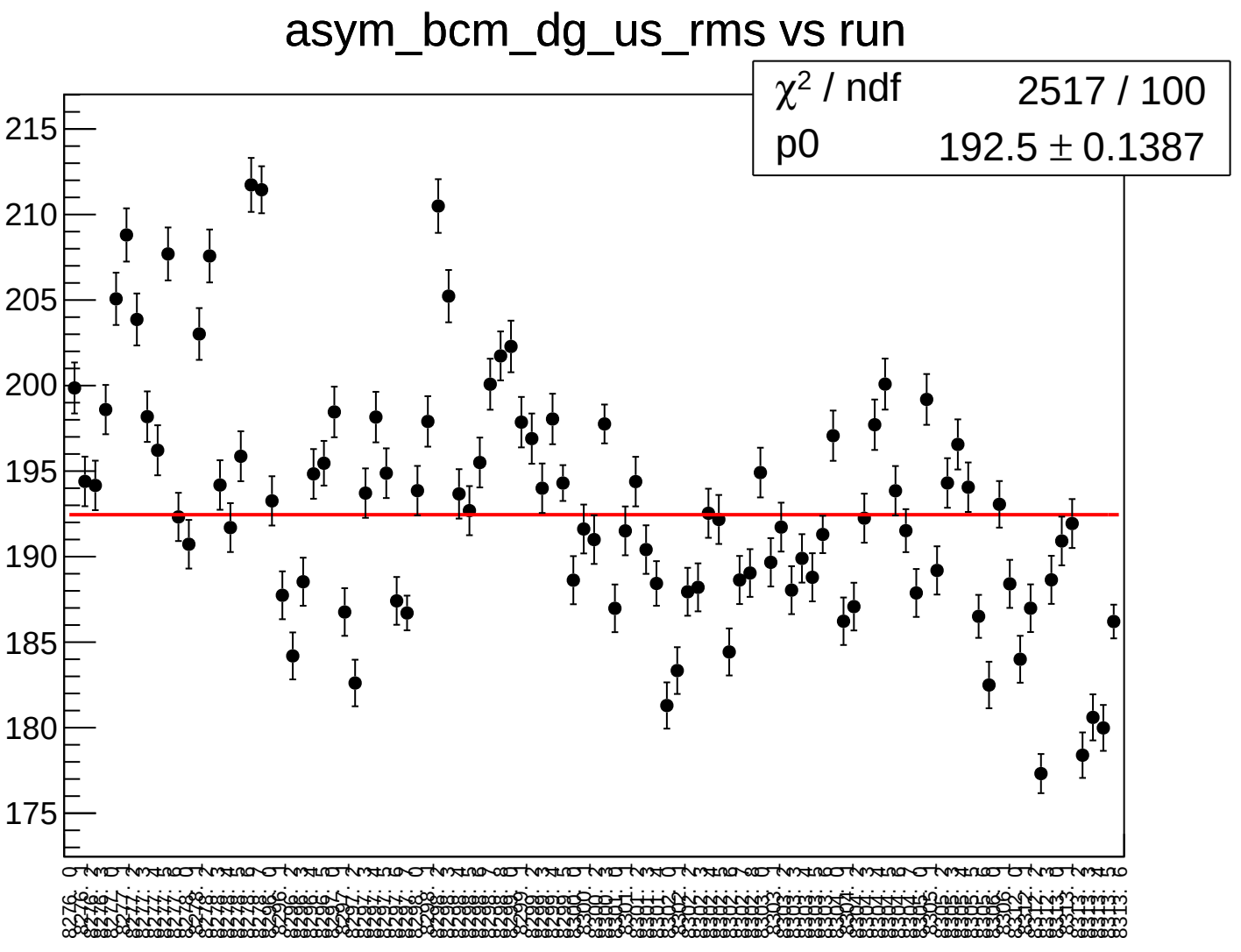

asym_bcm_an_ds3_rms vs run
χ² / ndf 2665 / 100
p0 190.4 ± 0.1373
210
205
200
195
190
185
180
175
170

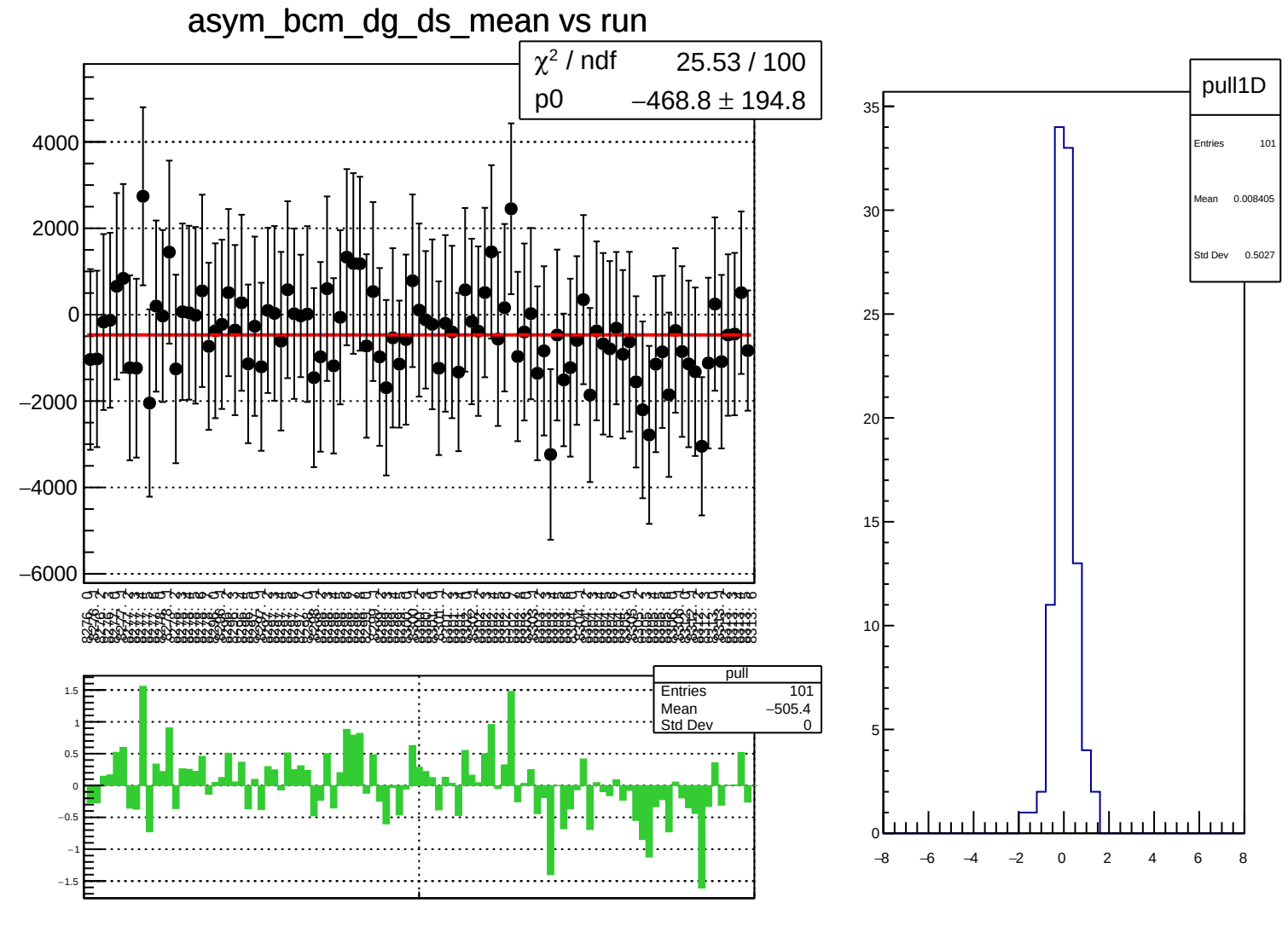

asym_bcm_an_us_mean vs run
χ² / ndf 21.92 / 100
p0 −468.1± 194.6
6000
4000
2000
0
−2000
−4000
pull
Entries 101
Mean −488.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

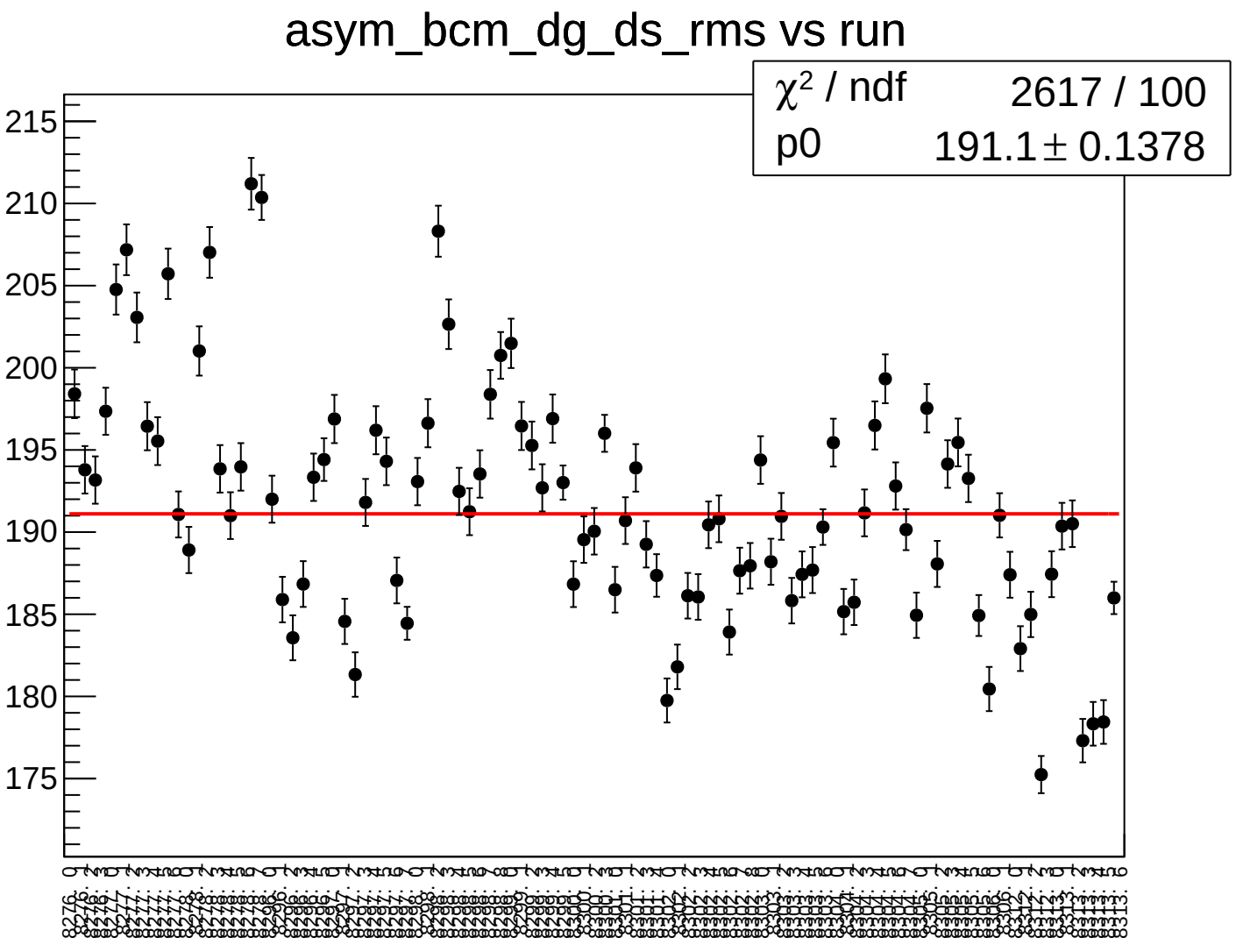

pull1D
Entries 101
Mean 0.007211
Std Dev 0.4658
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

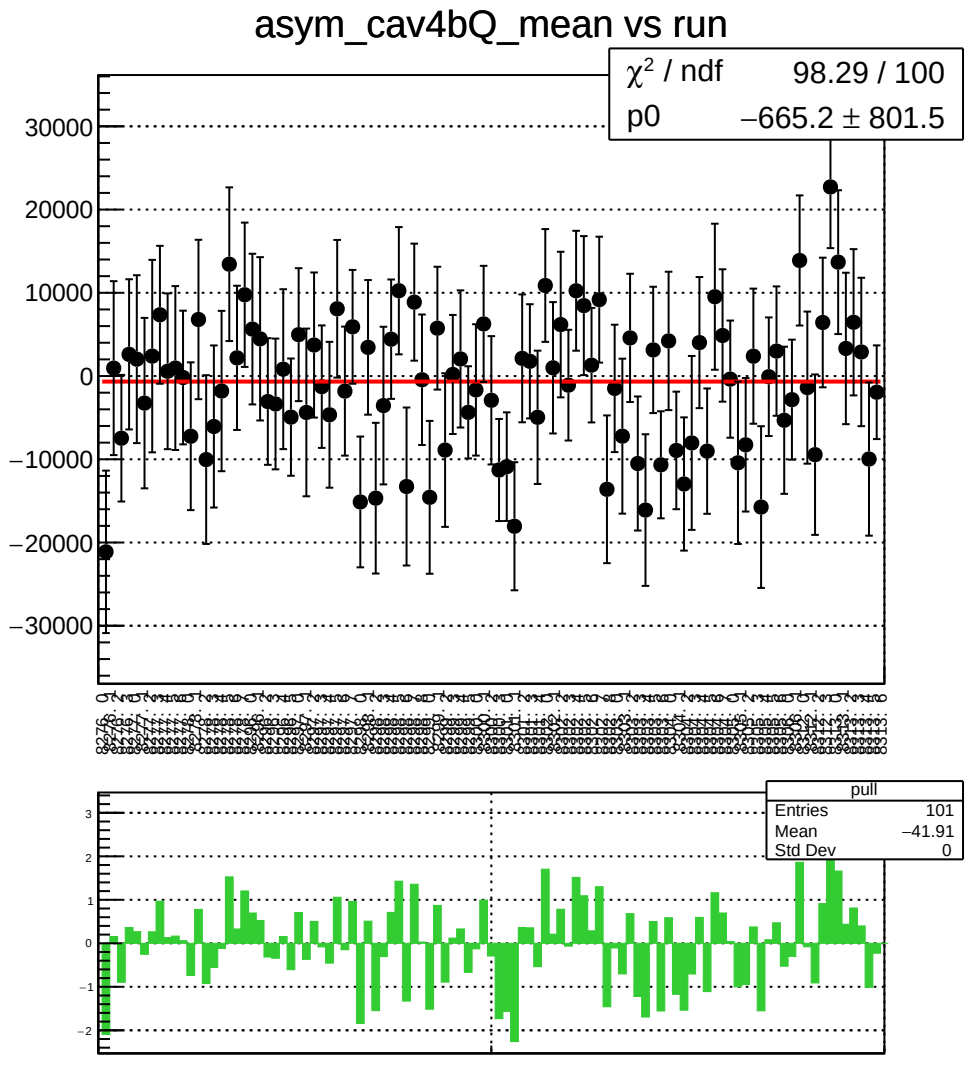

asym_bcm_an_us_rms vs run
χ² / ndf 2634 / 100
p0 190.9 ± 0.1376
215
210
205
200
195
190
185
180
175
170

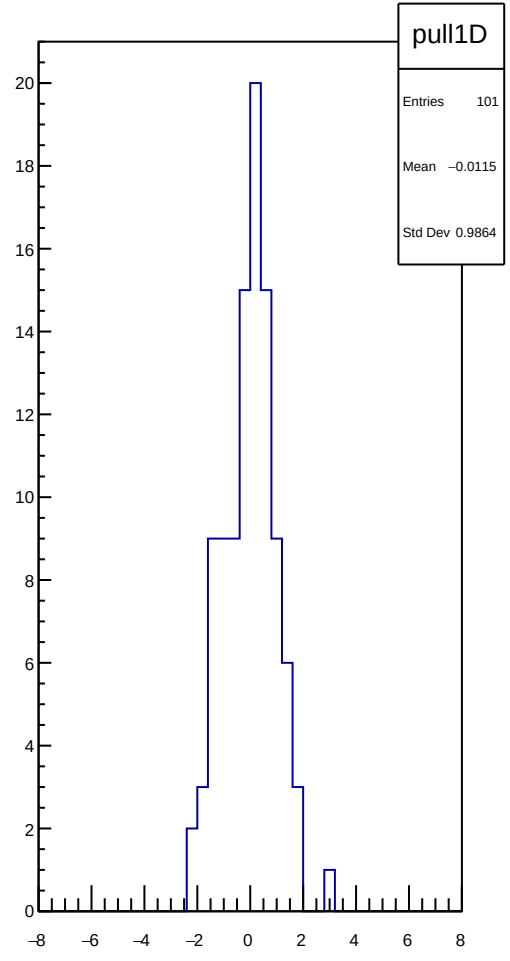

asym_bcm_dg_us_mean vs run
χ² / ndf 26.92 / 100
p0 −529 ± 196.2
4000
2000
0
−2000
−4000
−6000
pull
Entries 101
Mean −888.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 101
Mean 0.004876
Std Dev 0.5162
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

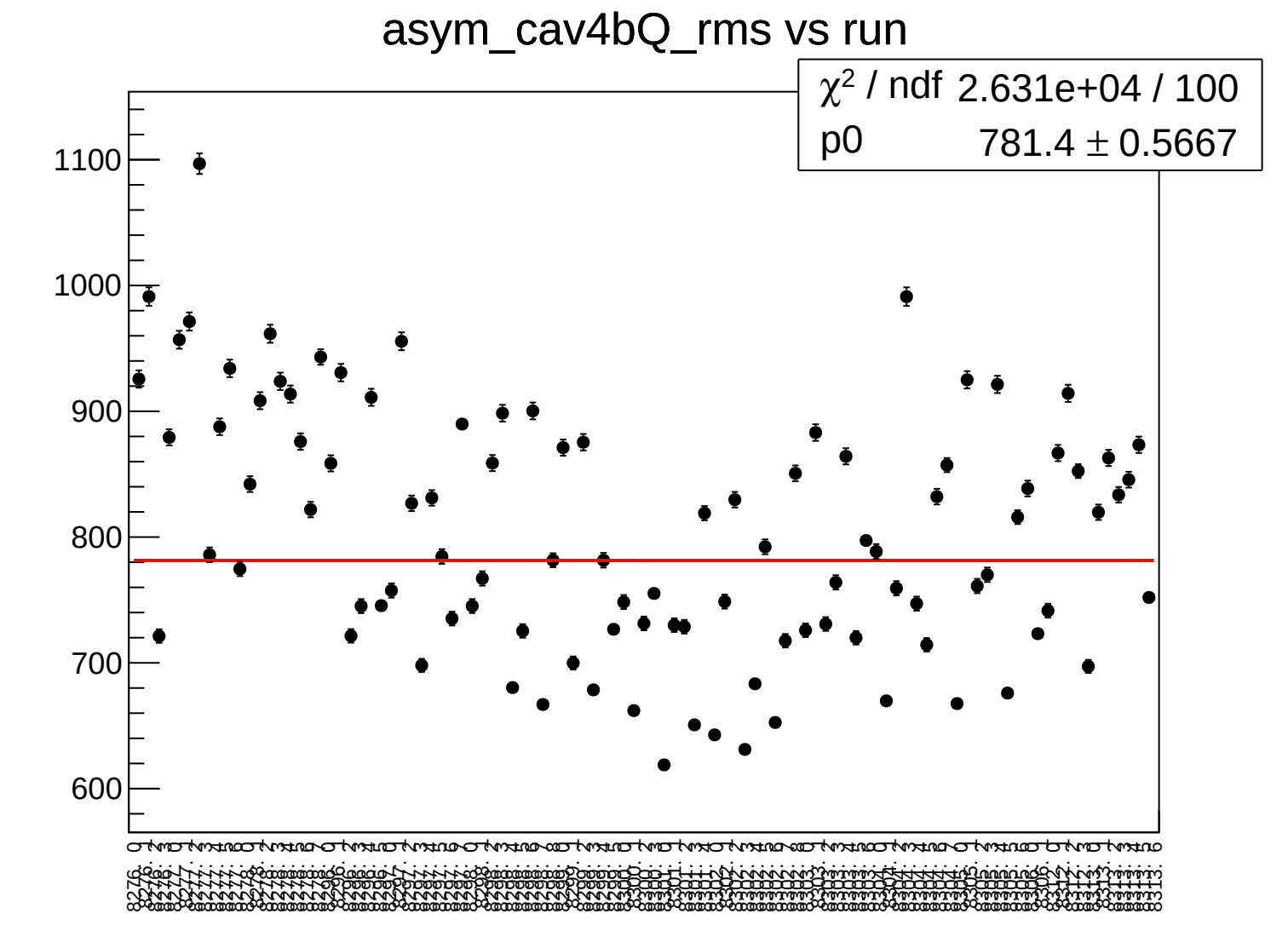

asym_bcm_dg_us_rms vs run
χ² / ndf 2517 / 100
p0 192.5 ± 0.1387
215
210
205
200
195
190
185
180
175

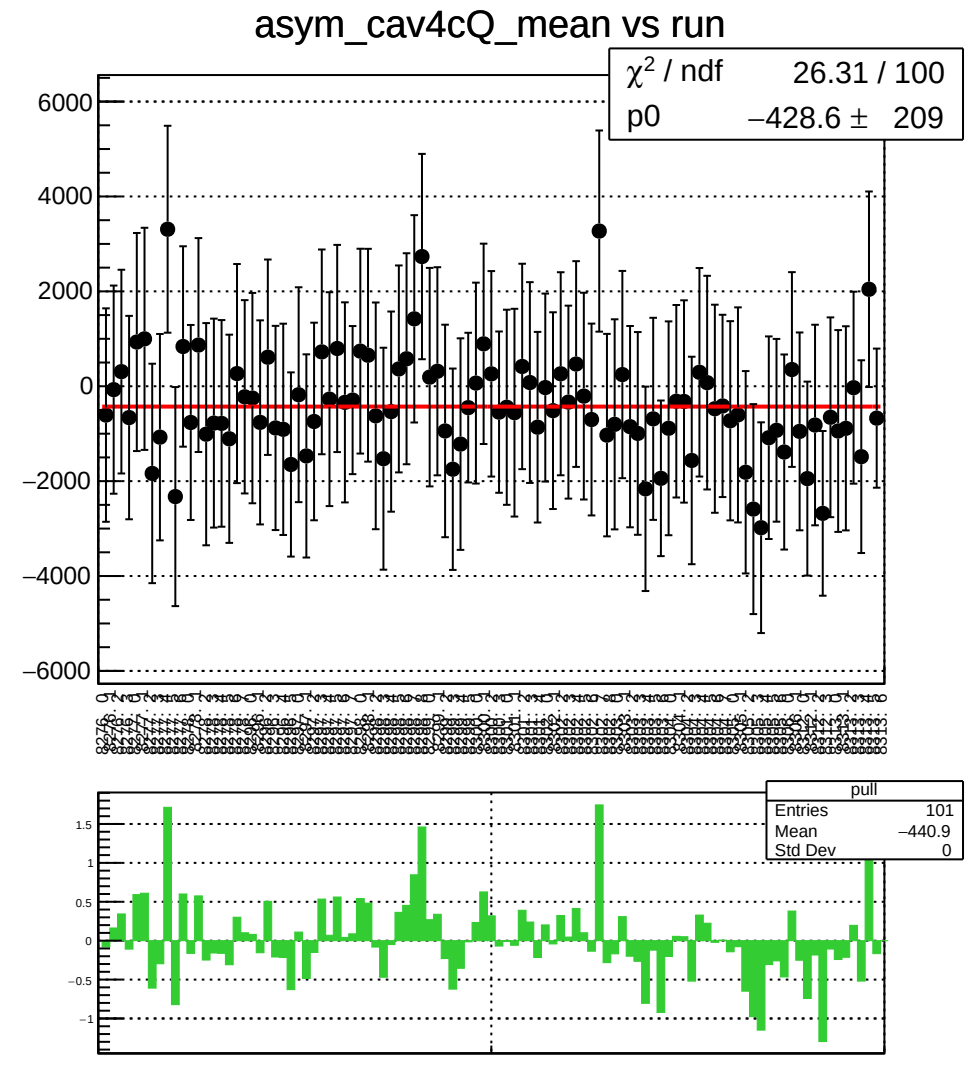

asym_bcm_dg_ds_mean vs run
χ² / ndf 25.53 / 100
p0 −468.8 ± 194.8
4000
2000
0
−2000
−4000
−6000
pull
Entries 101
Mean −505.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 101
Mean 0.008405
Std Dev 0.5027
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

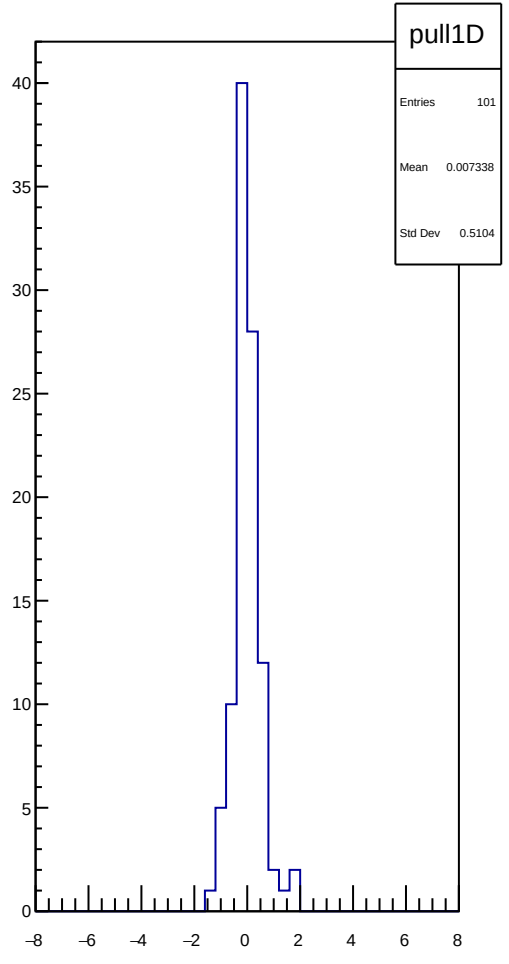

asym_bcm_dg_ds_rms vs run
χ² / ndf 2617 / 100
p0 191.1 ± 0.1378
215
210
205
200
195
190
185
180
175

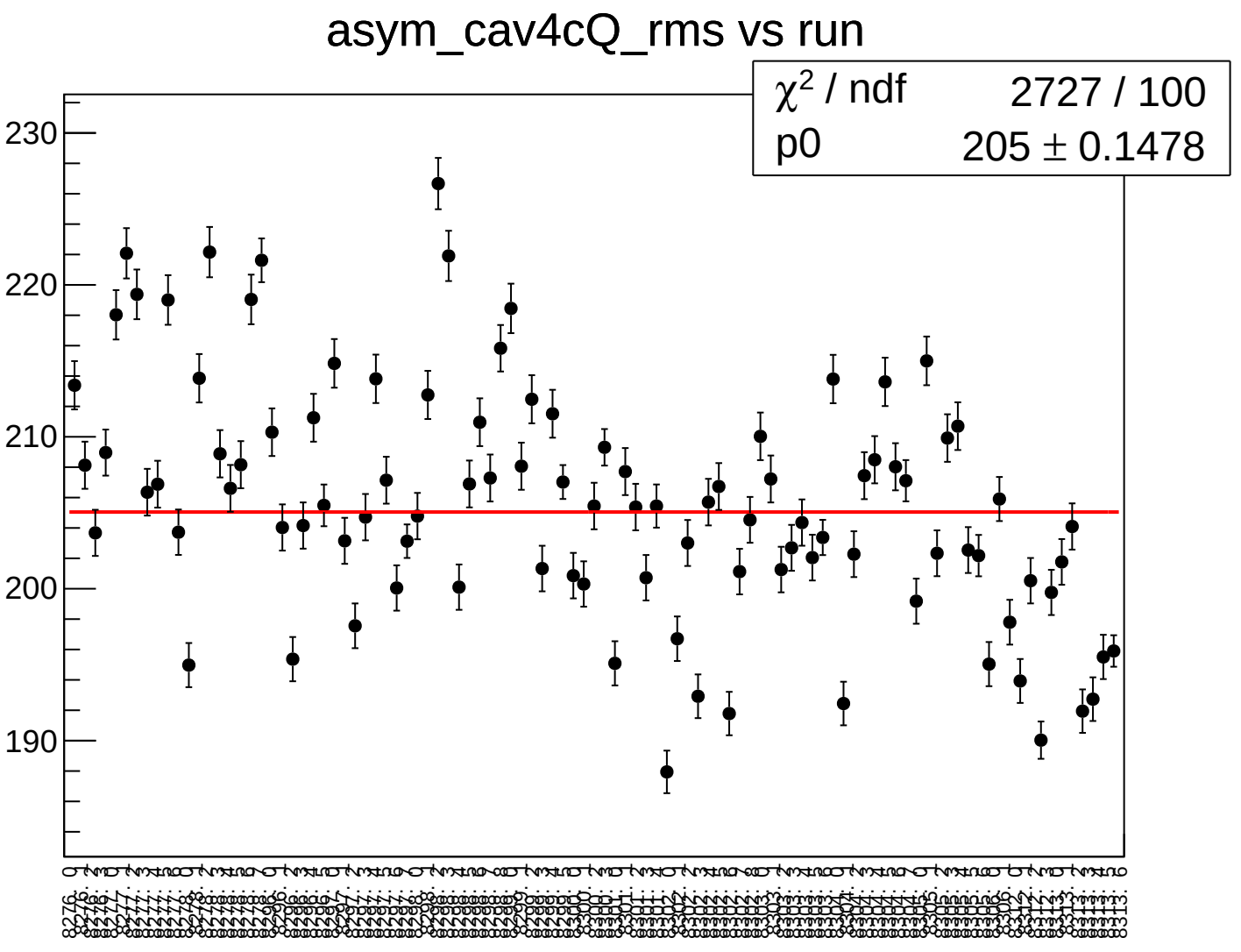

asym_cav4bQ_mean vs run
χ² / ndf 98.29 / 100
p0 −665.2 ± 801.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 101
Mean −41.91
Std Dev 0
3
2
1
0
−1
−2

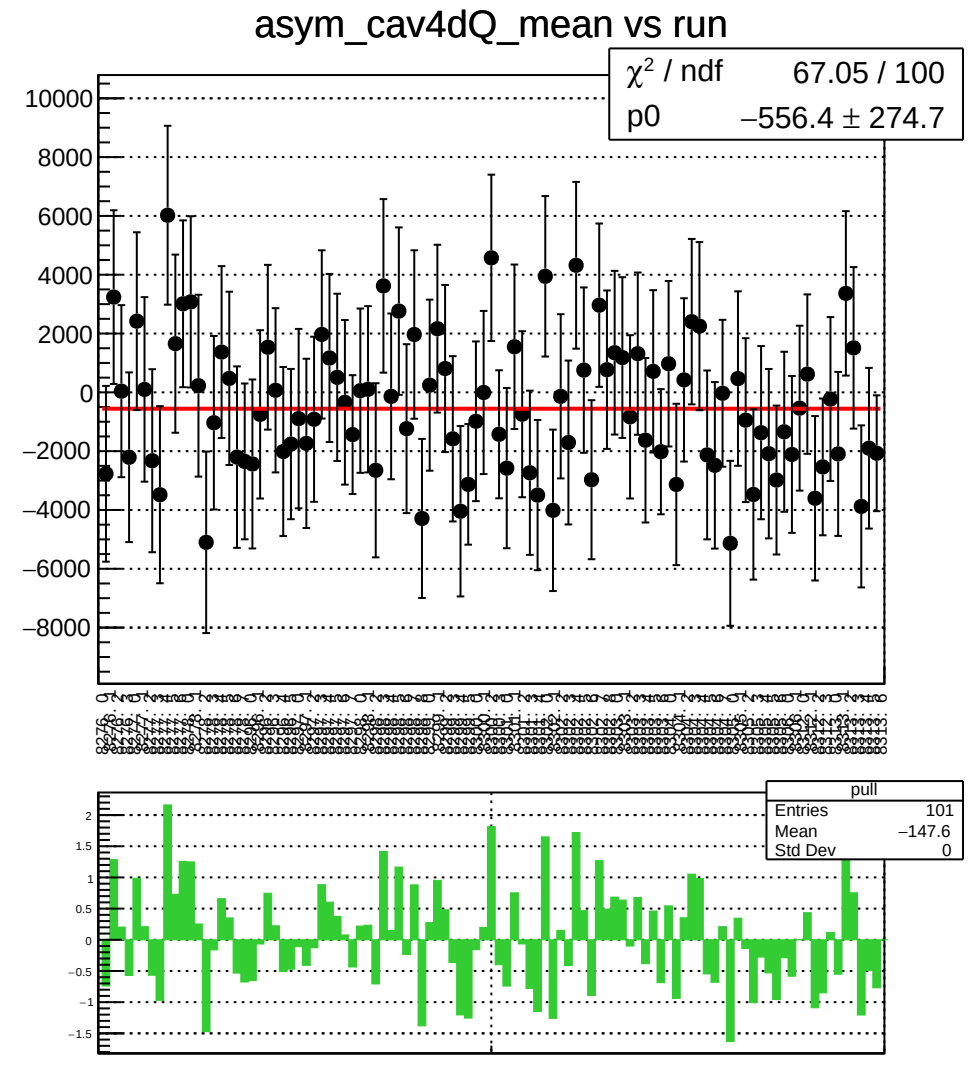

pull1D
Entries 101
Mean −0.0115
Std Dev 0.9864
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

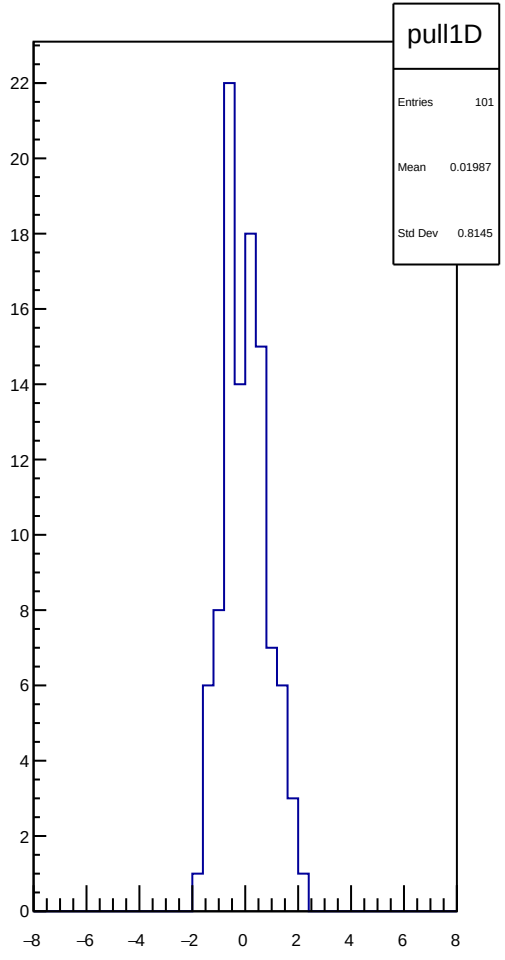

asym_cav4bQ_rms vs run
χ² / ndf 2.631e+04 / 100
p0 781.4 ± 0.5667
1100
1000
900
800
700
600

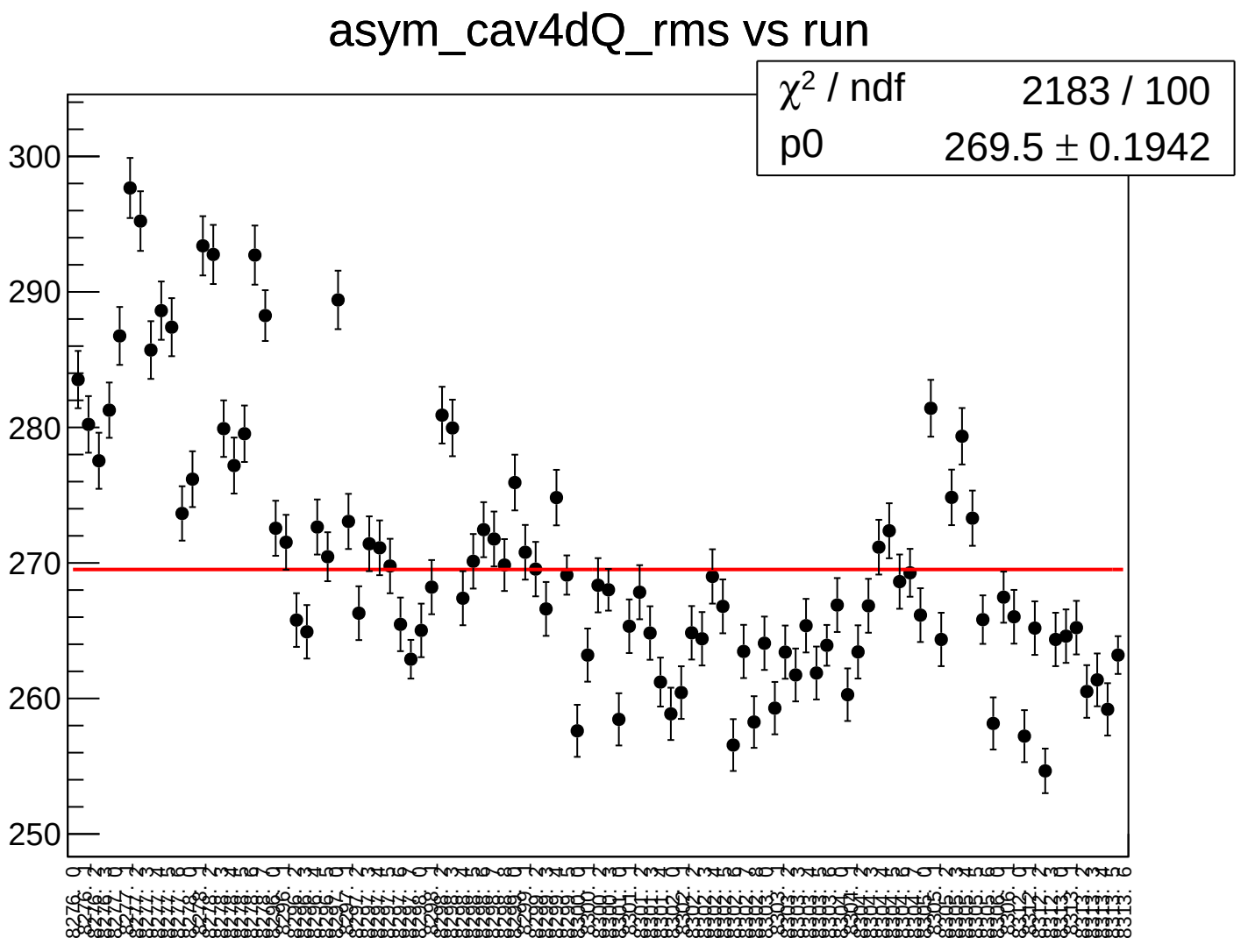

asym_cav4cQ_mean vs run
χ² / ndf 26.31 / 100
p0 −428.6 ± 209
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 101
Mean −440.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1

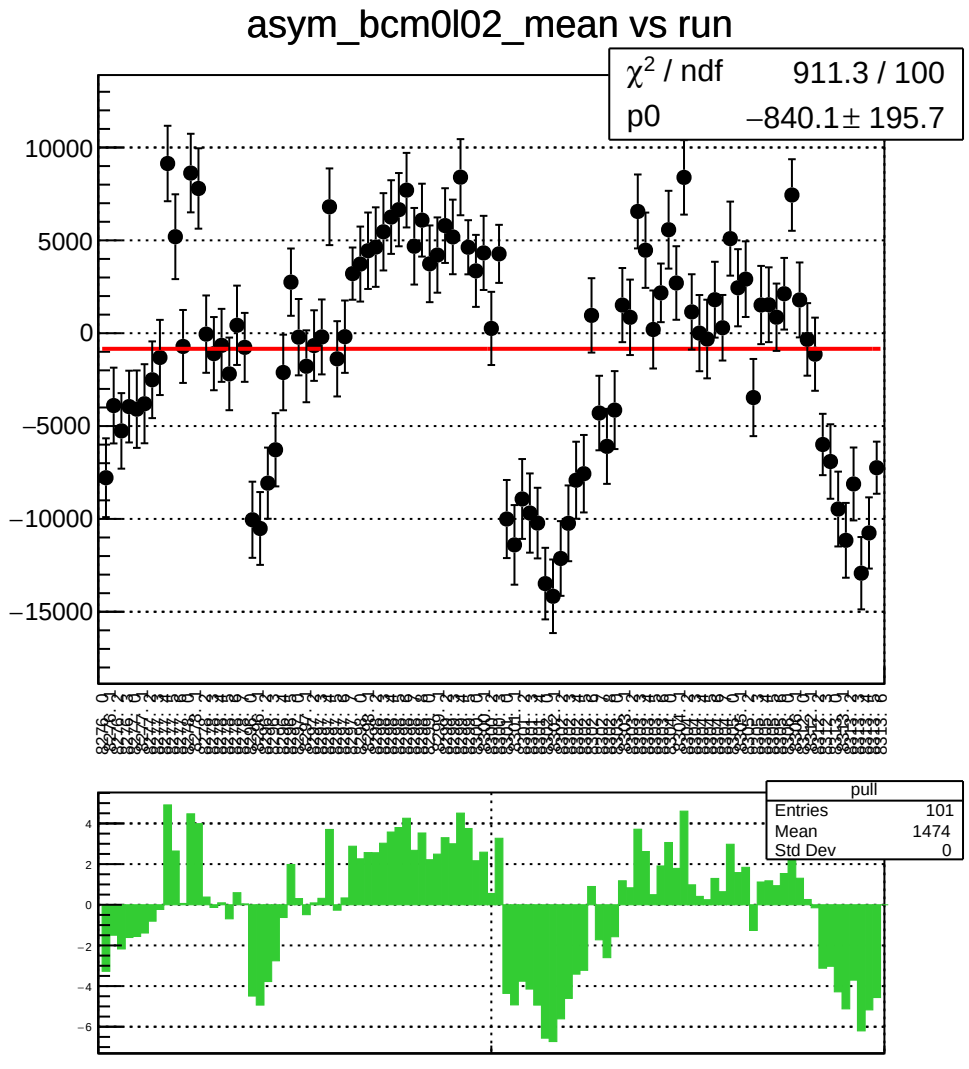

pull1D
Entries 101
Mean 0.007338
Std Dev 0.5104
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

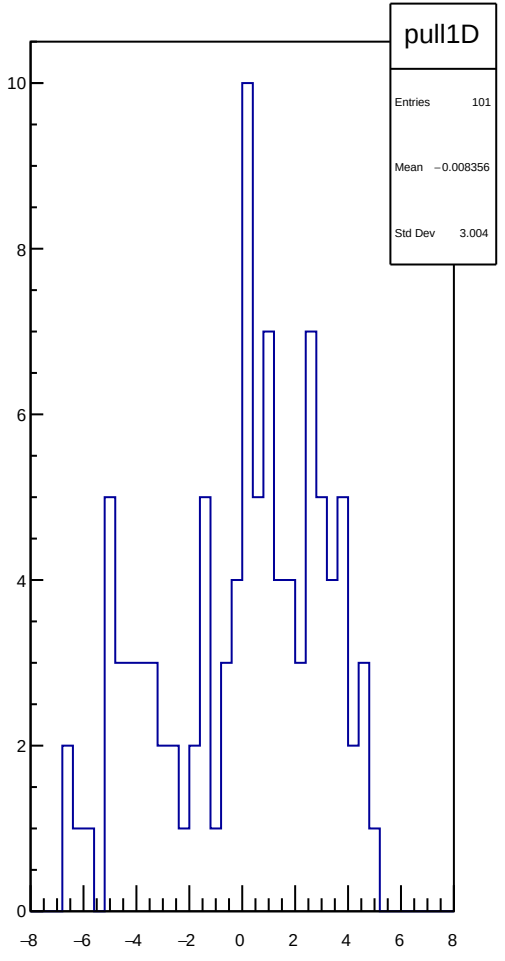

asym_cav4cQ_rms vs run
χ^2 / ndf 2727 / 100
p0 205 ± 0.1478
230
220
210
200
190

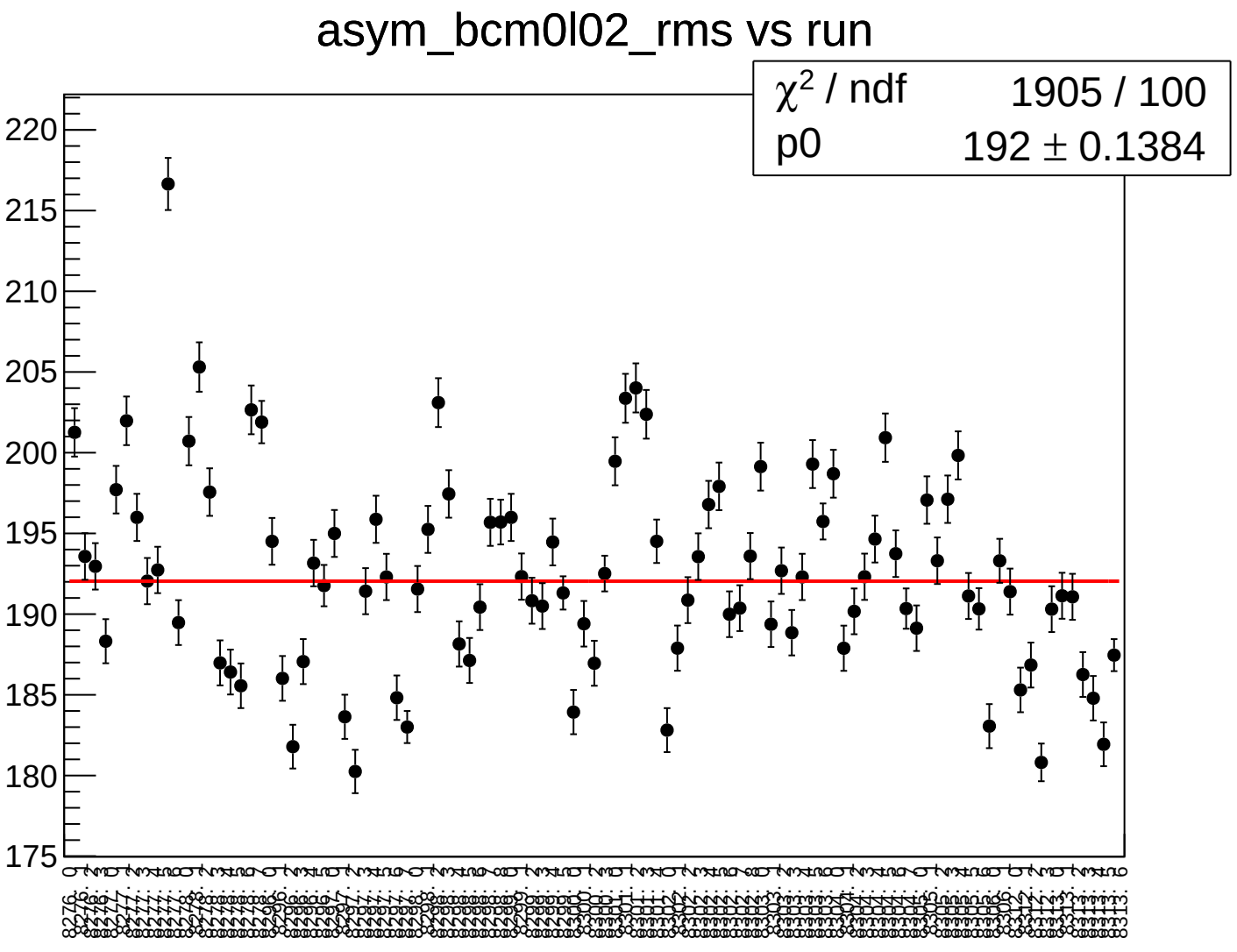

asym_cav4dQ_mean vs run
χ² / ndf 67.05 / 100
p0 −556.4 ± 274.7
pull
Entries 101
Mean −147.6
Std Dev 0

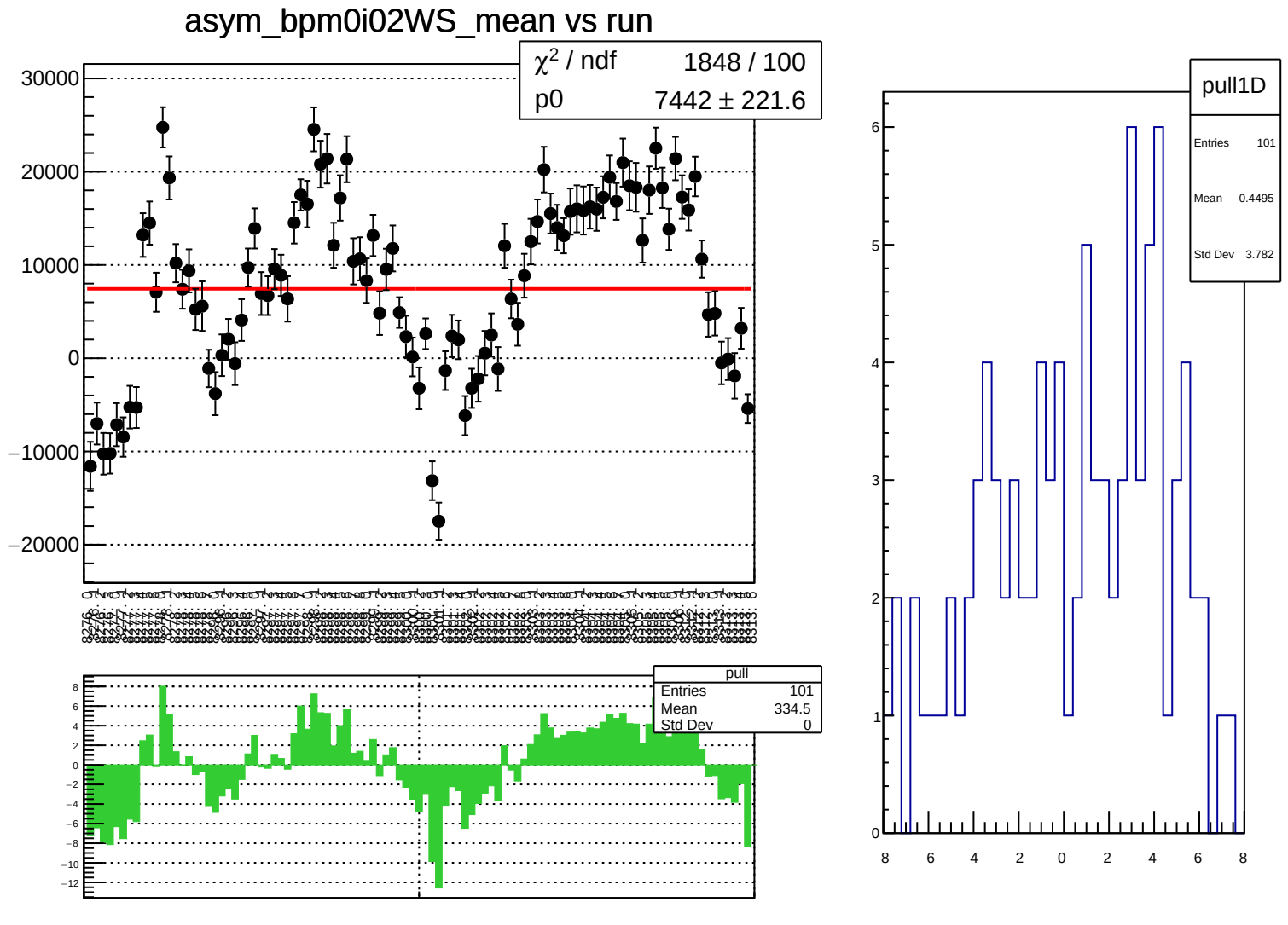

pull1D
Entries 101
Mean 0.01987
Std Dev 0.8145

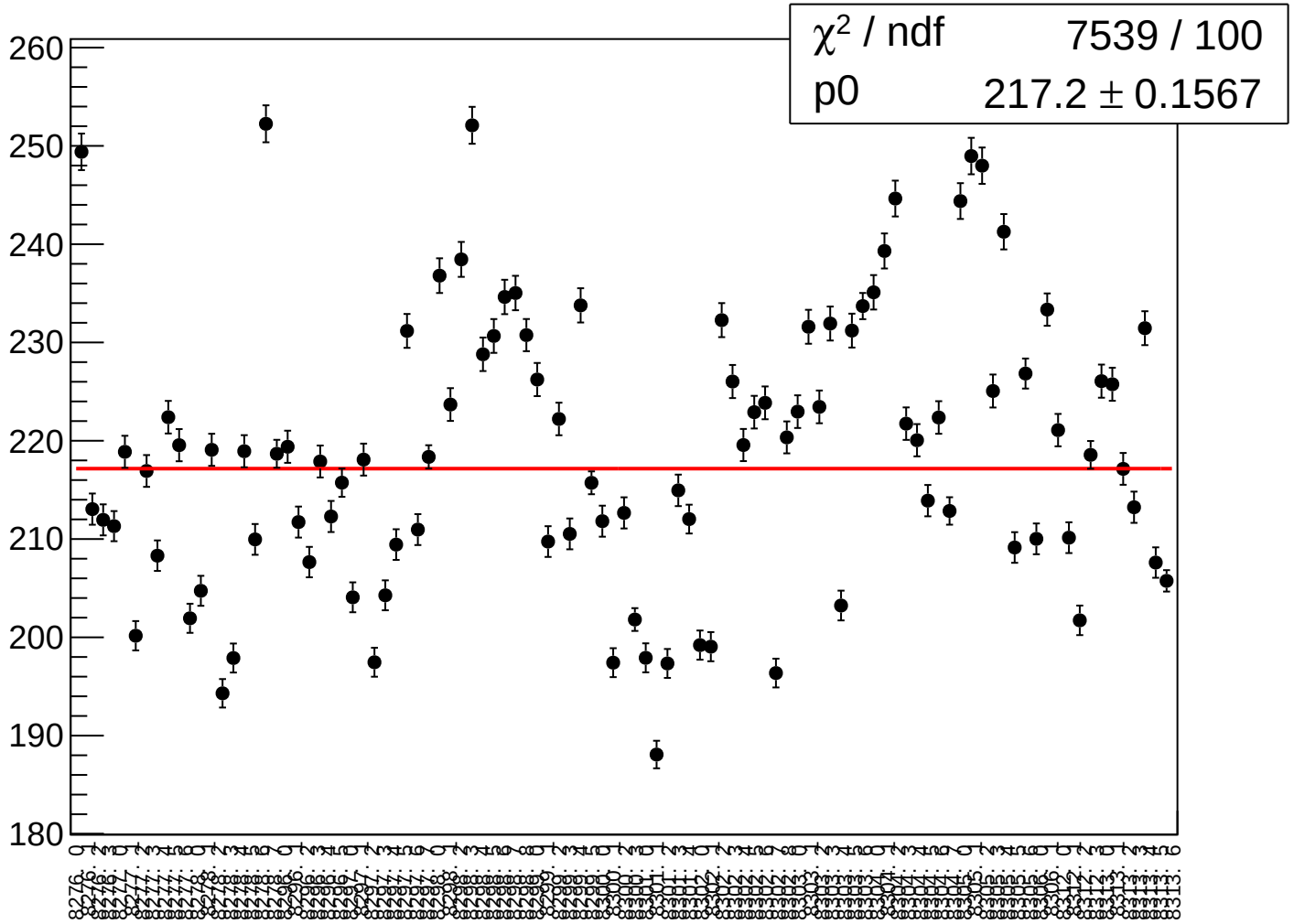

asym_cav4dQ_rms vs run
χ² / ndf 2183 / 100
p0 269.5 ± 0.1942
300
290
280
270
260
250

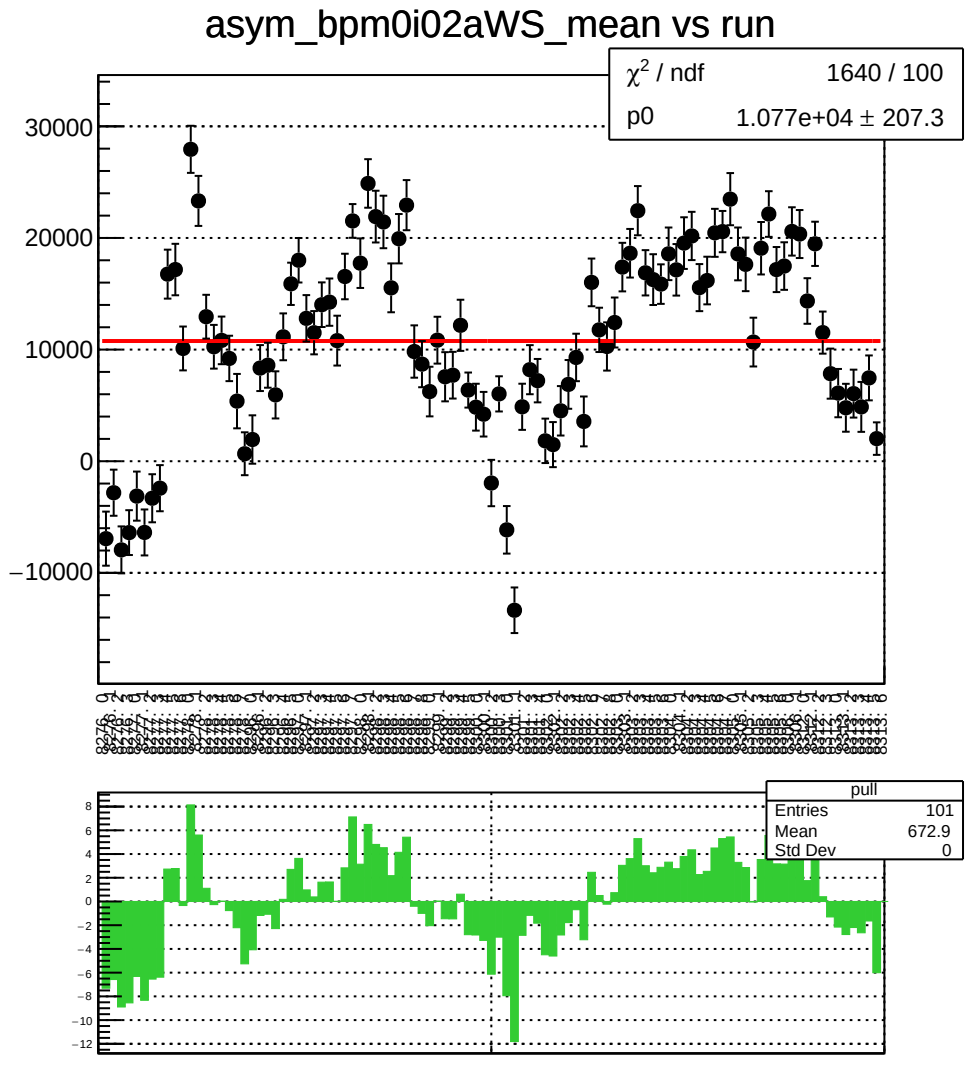

asym_bcm0l02_mean vs run
χ² / ndf 911.3 / 100
p0 −840.1± 195.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 101
Mean 1474
Std Dev 0
4
2
0
−2
−4
−6

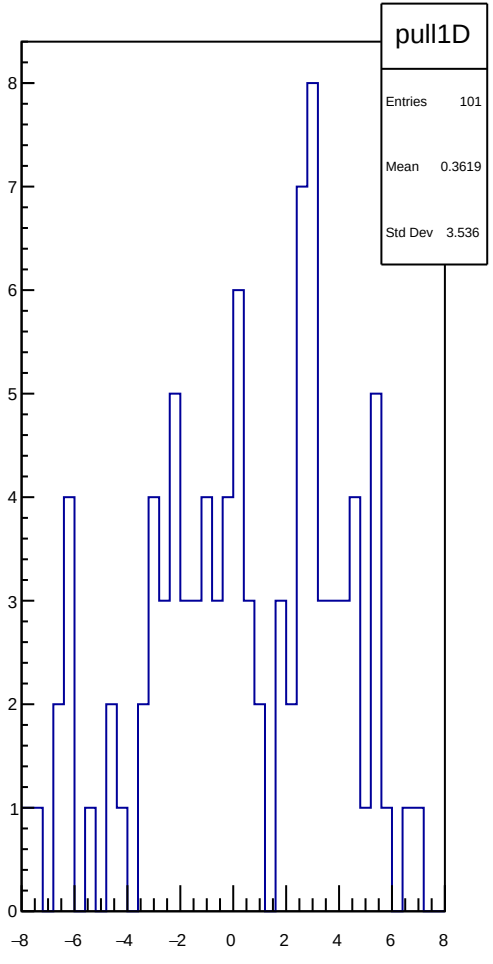

pull1D
Entries 101
Mean −0.008356
Std Dev 3.004
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

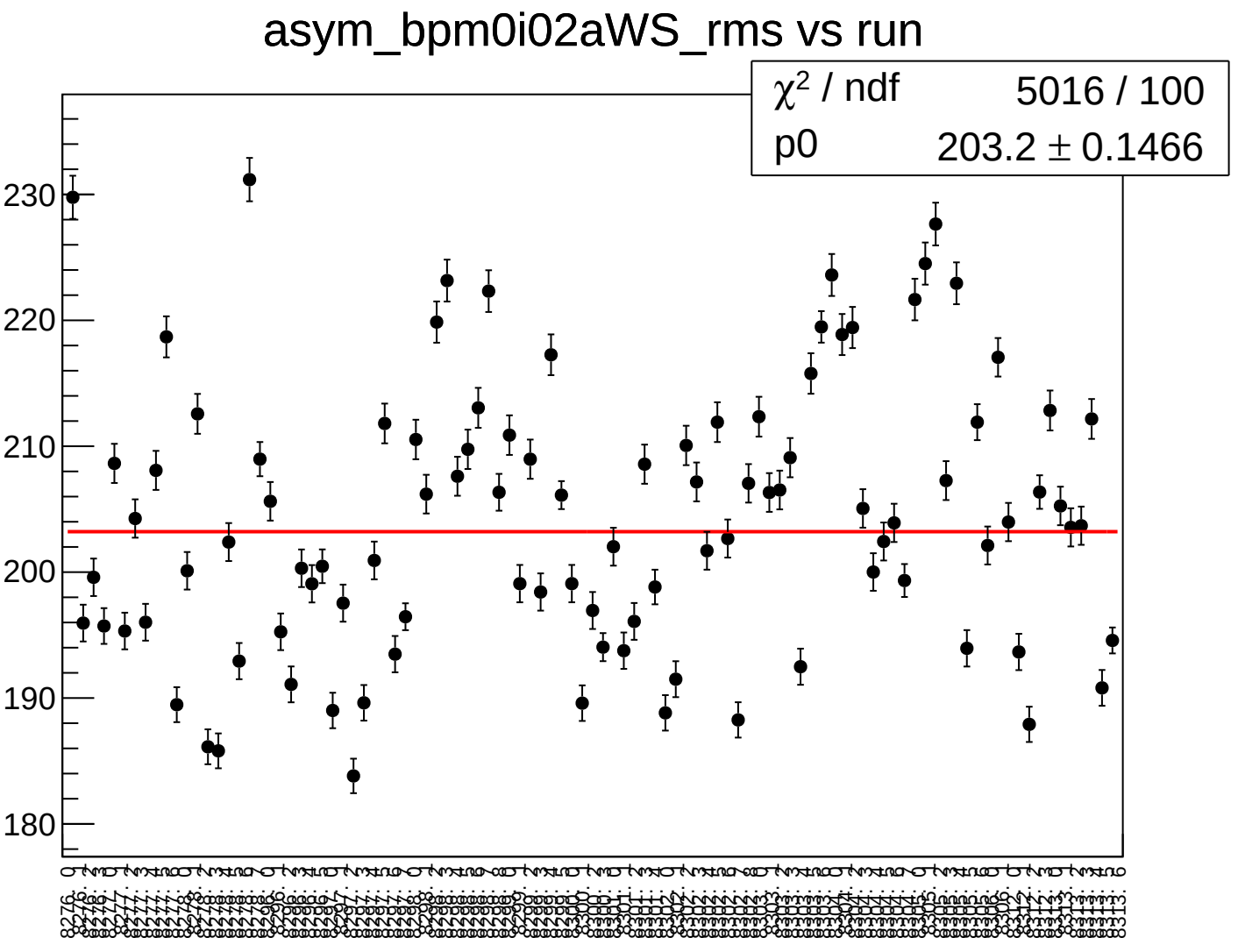

asym_bcm0l02_rms vs run
χ^2 / ndf 1905 / 100
p0 192 ± 0.1384
220
215
210
205
200
195
190
185
180
175

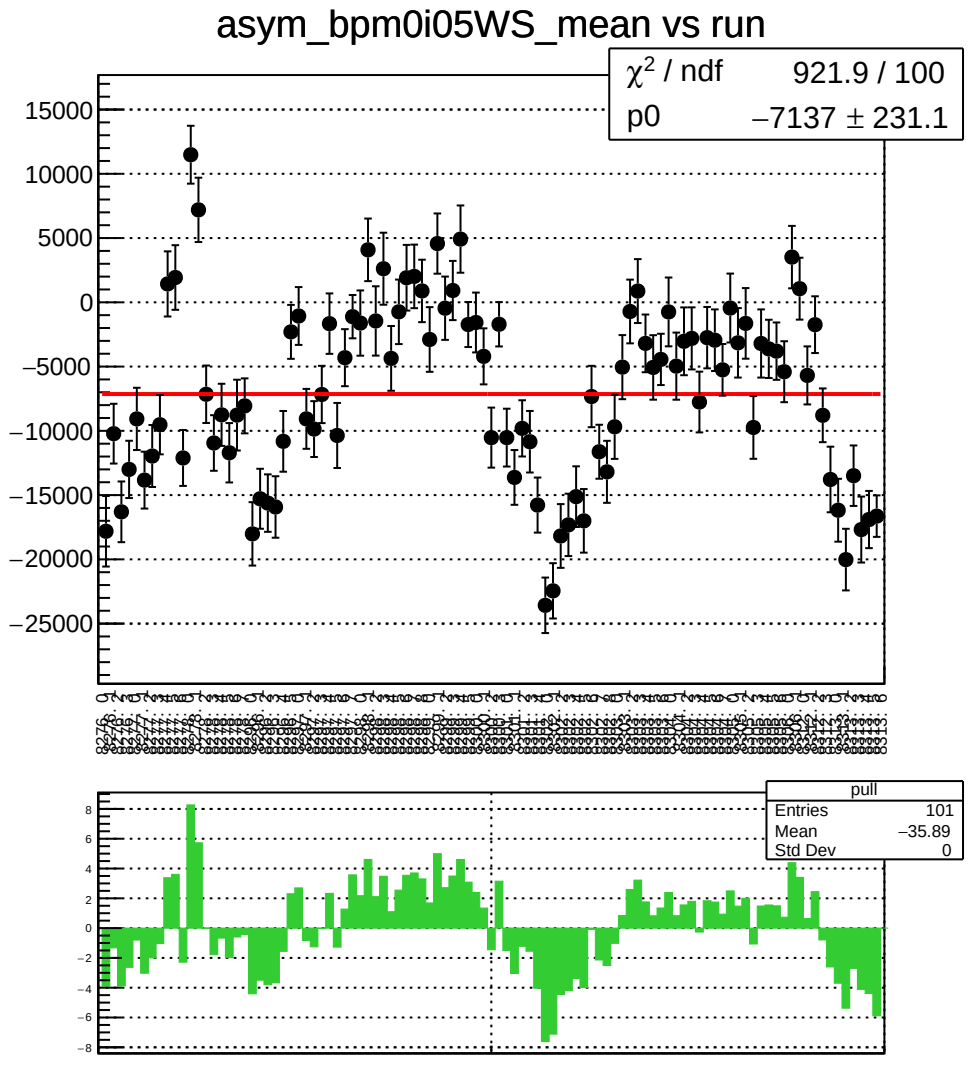

asym_bpm0i02WS_mean vs run
χ² / ndf 1848 / 100
p0 7442 ± 221.6
30000
20000
10000
0
−10000
−20000
pull
Entries 101
Mean 334.5
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8
−10
−12
pull1D
Entries 101
Mean 0.4495
Std Dev 3.782
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

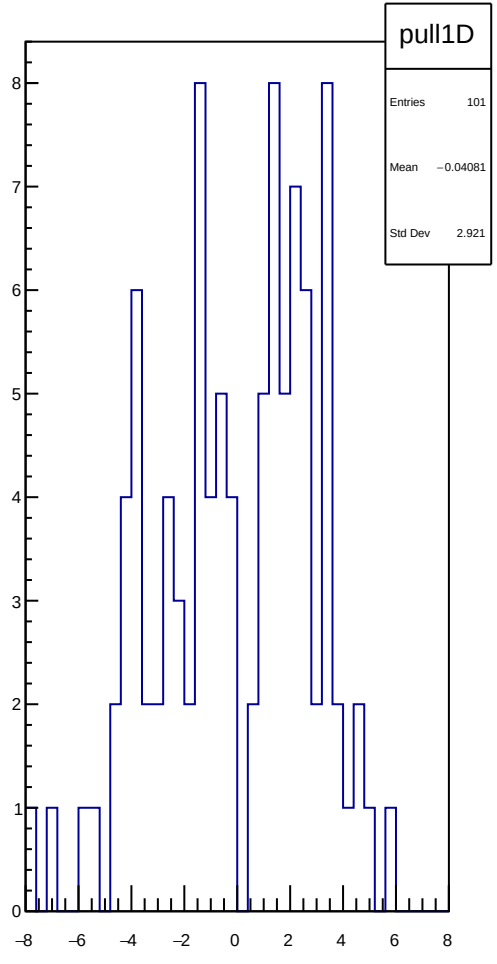

asym_bpm0i02WS_rms vs run
χ² / ndf 7539 / 100
p0 217.2 ± 0.1567
260
250
240
230
220
210
200
190
180

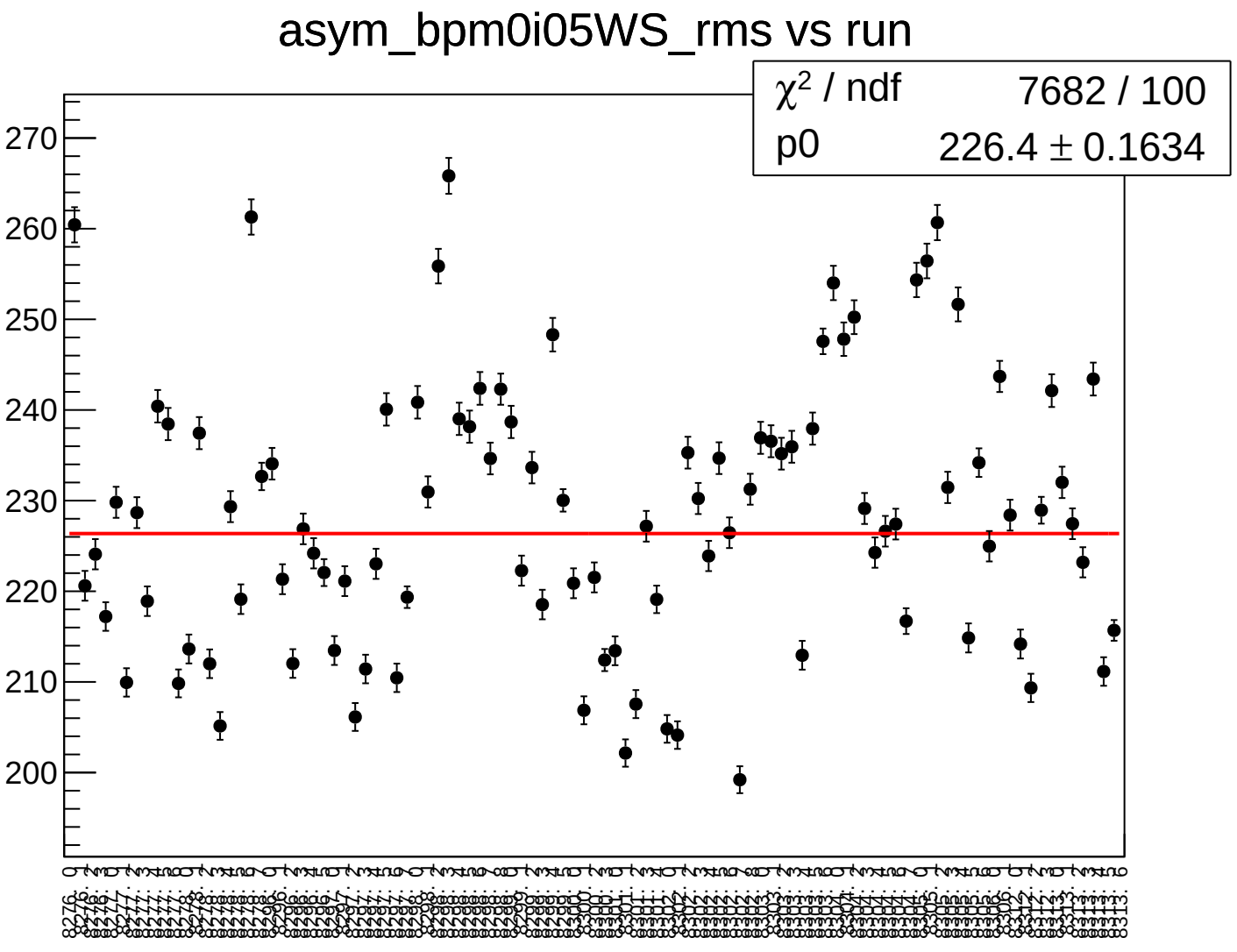

asym_bpm0i02aWS_mean vs run
χ² / ndf 1640 / 100
p0 1.077e+04 ± 207.3
30000
20000
10000
0
−10000
pull
Entries 101
Mean 672.9
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8
−10
−12

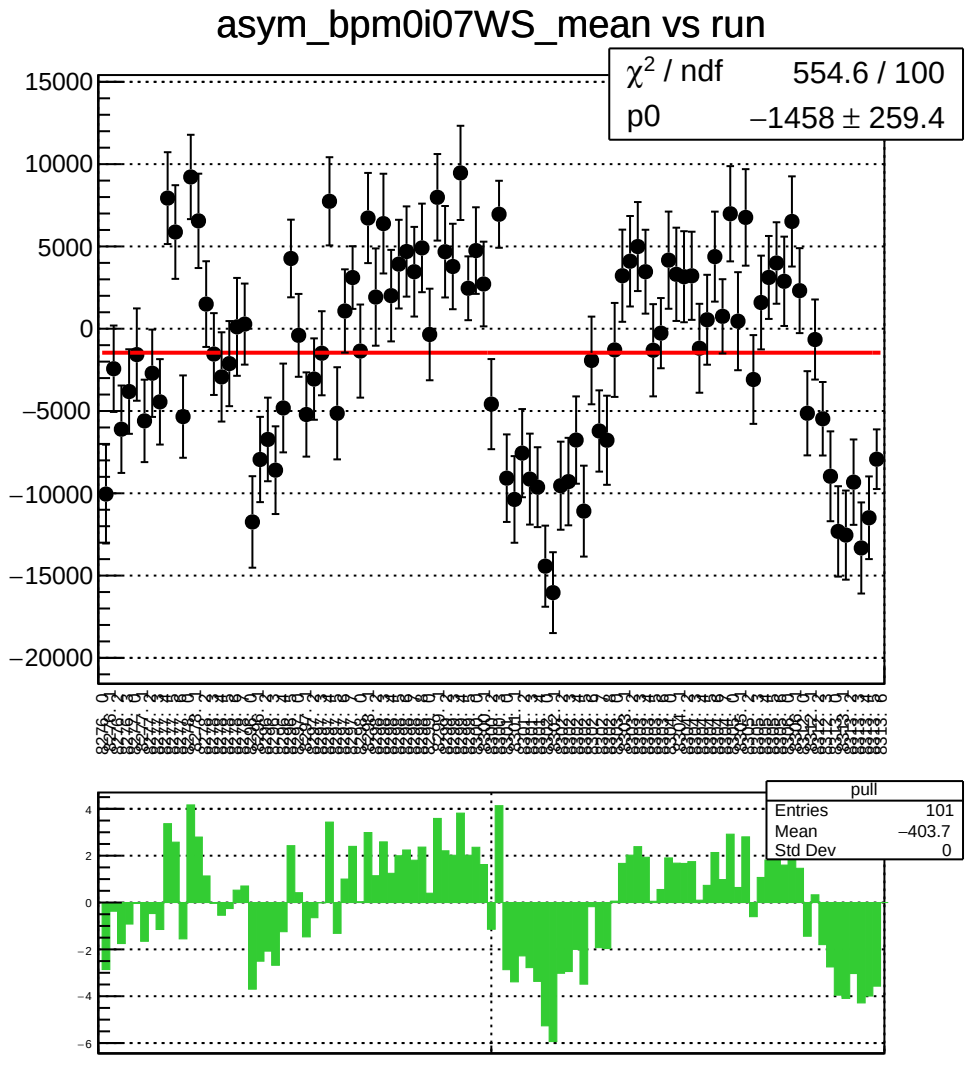

pull1D
Entries 101
Mean 0.3619
Std Dev 3.536
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

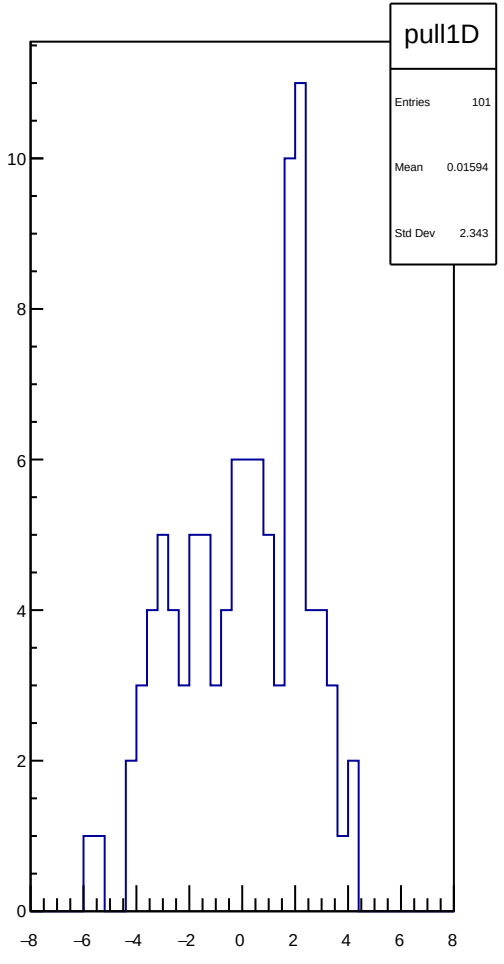

asym_bpm0i02aWS_rms vs run
χ^2 / ndf 5016 / 100
p0 203.2 ± 0.1466
230
220
210
200
190
180

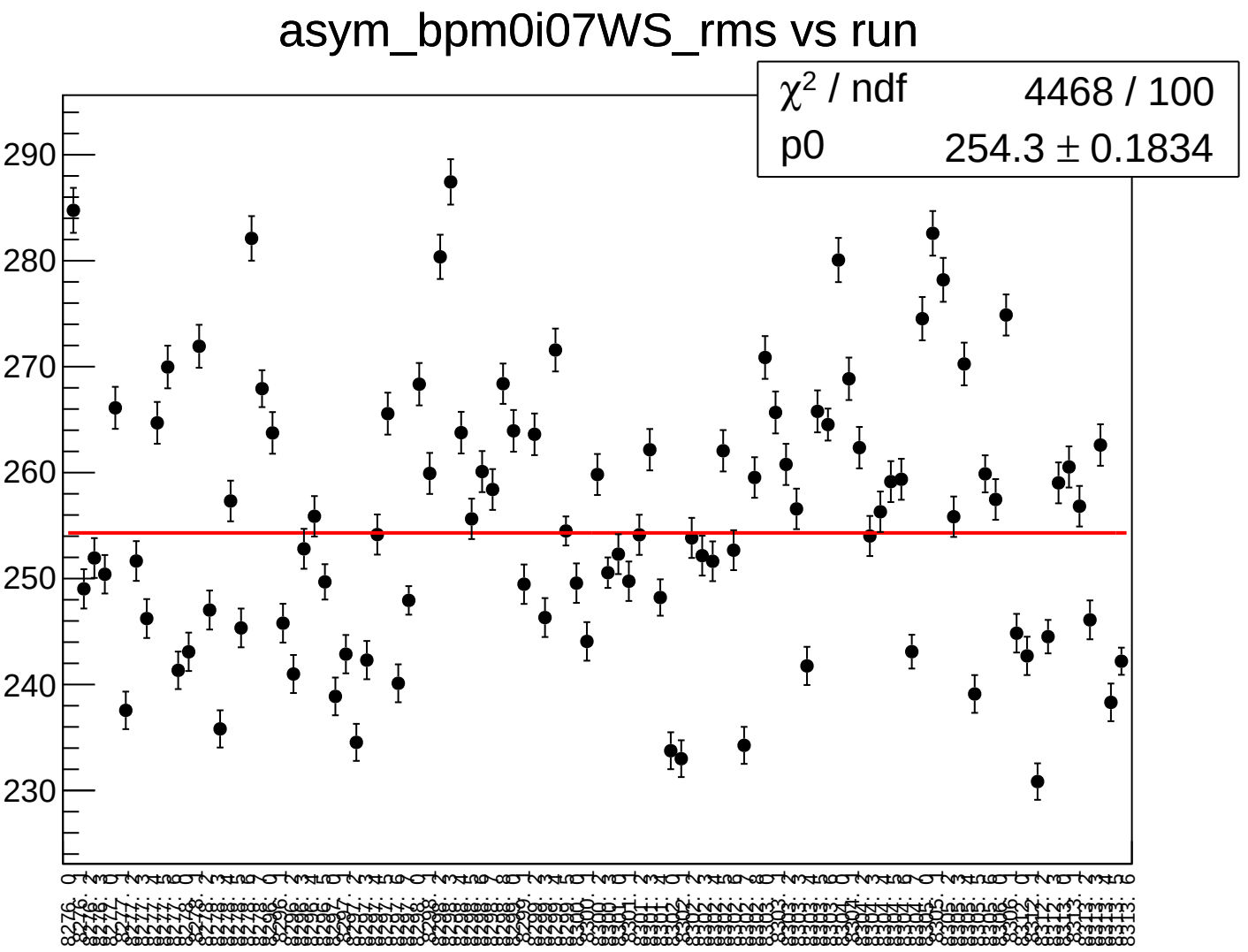

asym_bpm0i05WS_mean vs run
χ² / ndf 921.9 / 100
p0 −7137 ± 231.1
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 101
Mean −35.89
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8

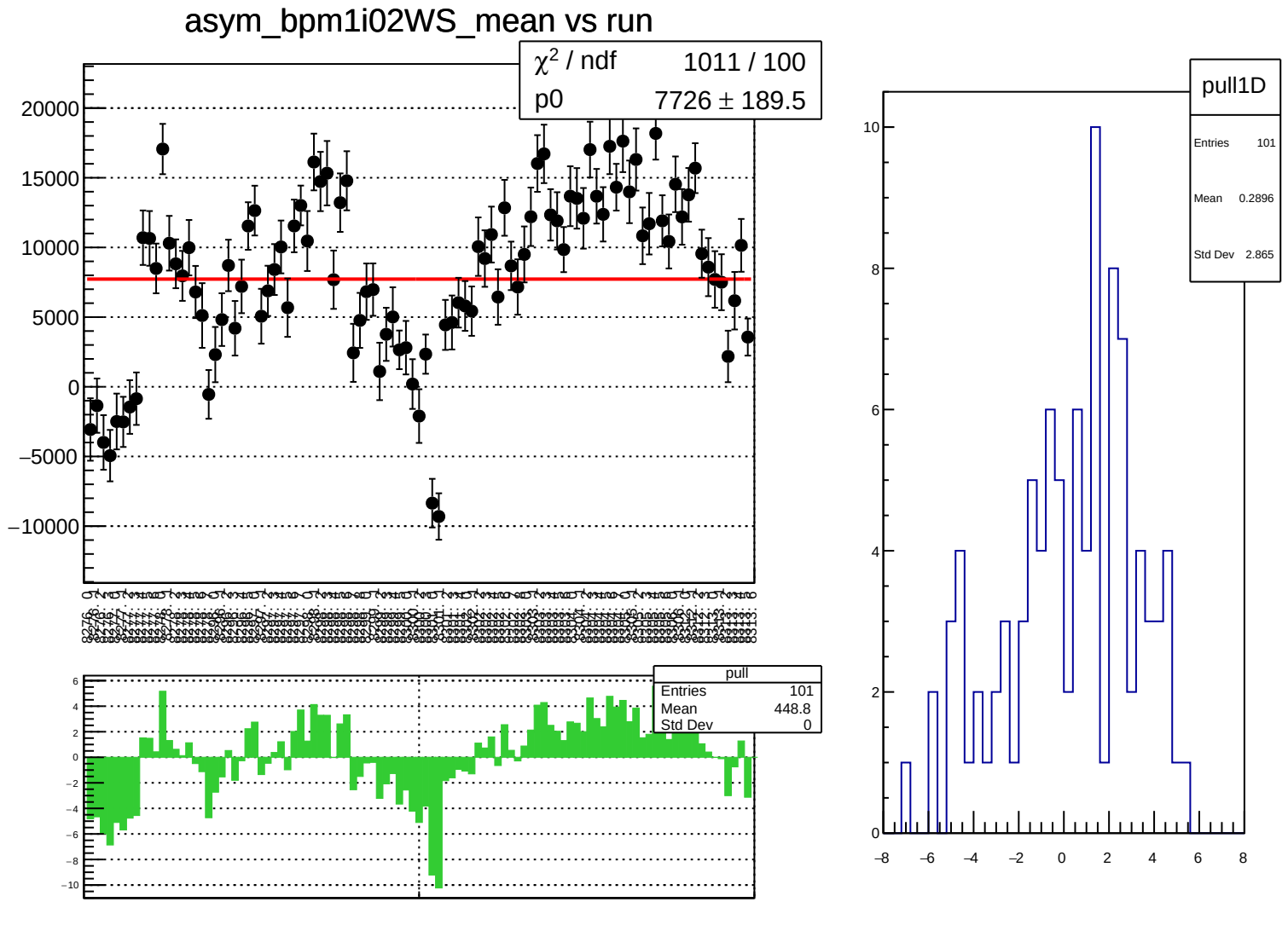

pull1D
Entries 101
Mean −0.04081
Std Dev 2.921
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

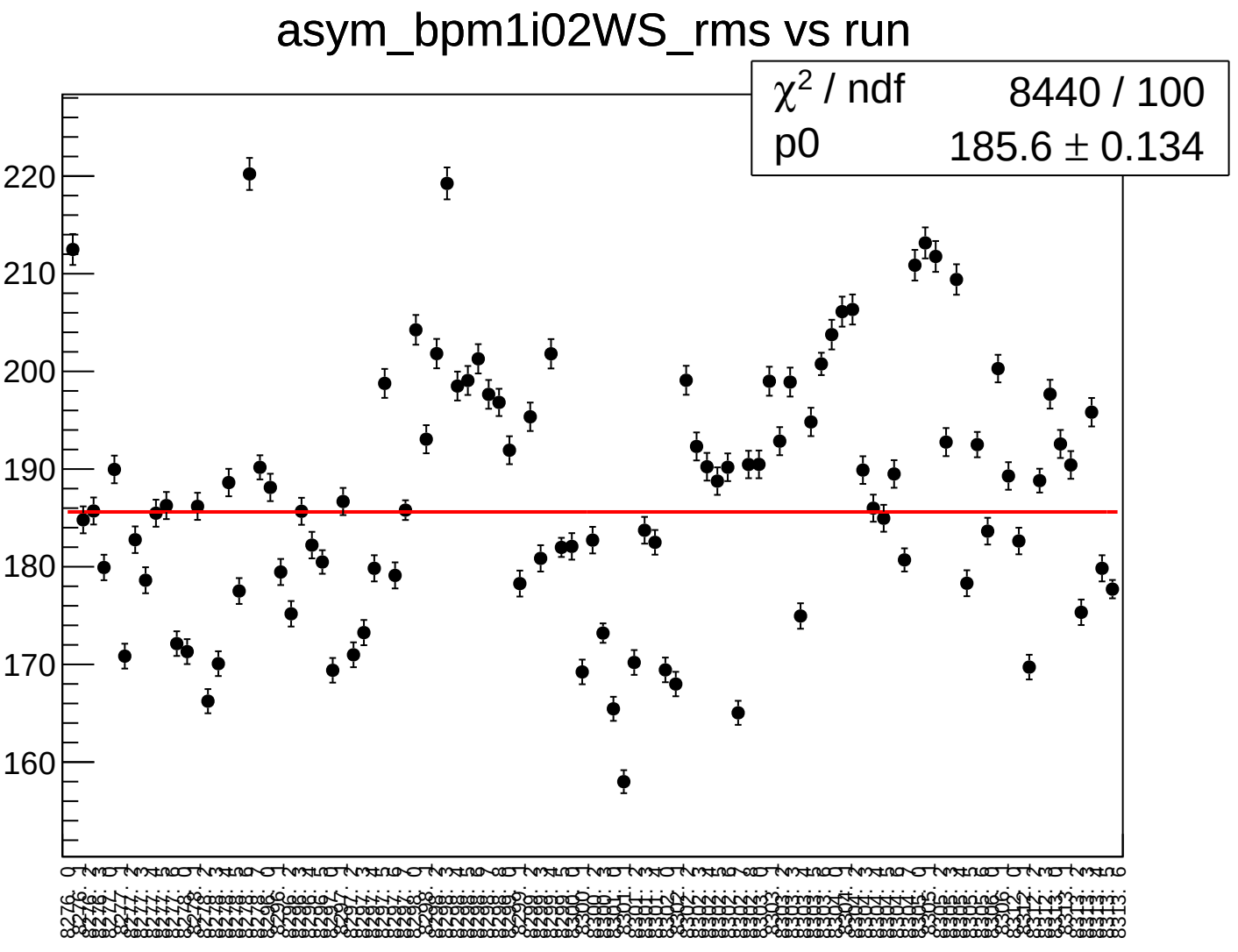

asym_bpm0i05WS_rms vs run
χ² / ndf 7682 / 100
p0 226.4 ± 0.1634
270
260
250
240
230
220
210
200

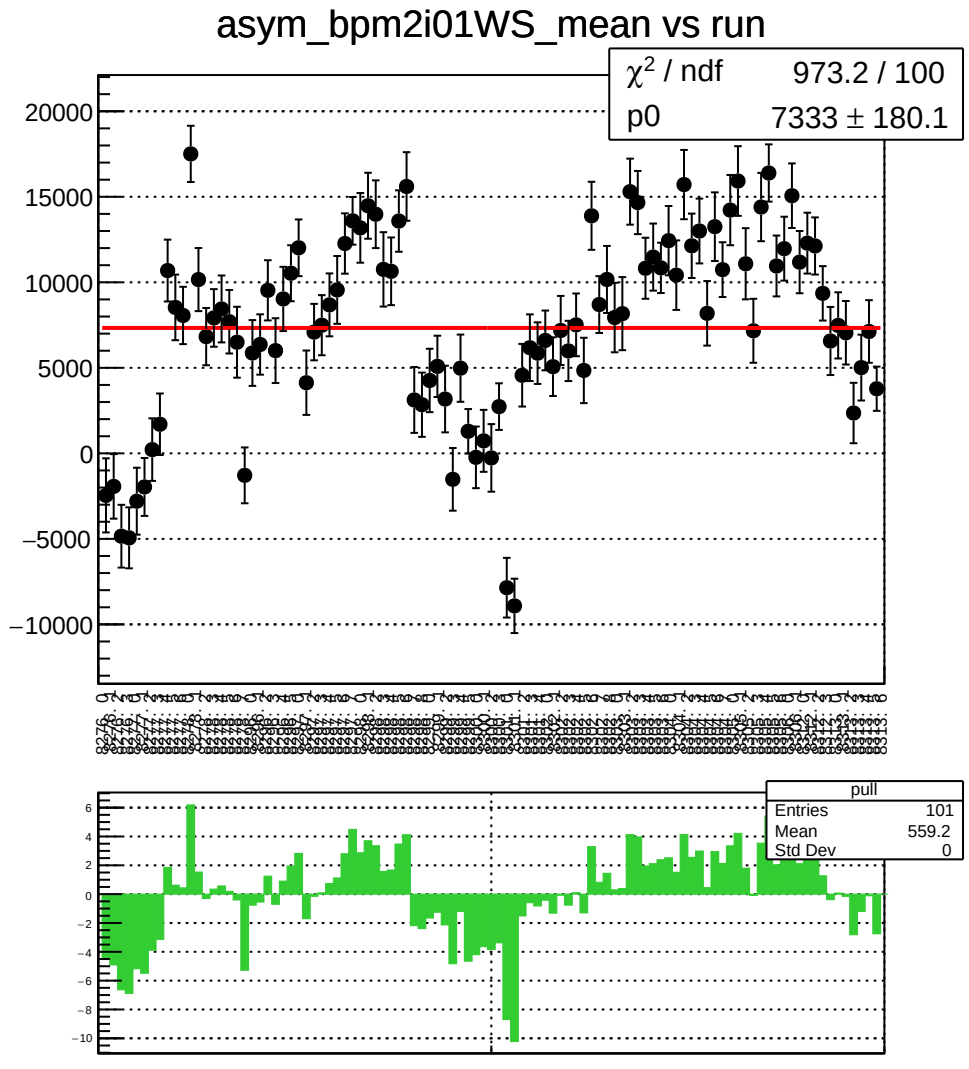

asym_bpm0i07WS_mean vs run
χ² / ndf 554.6 / 100
p0 −1458 ± 259.4
pull
Entries 101
Mean −403.7
Std Dev 0

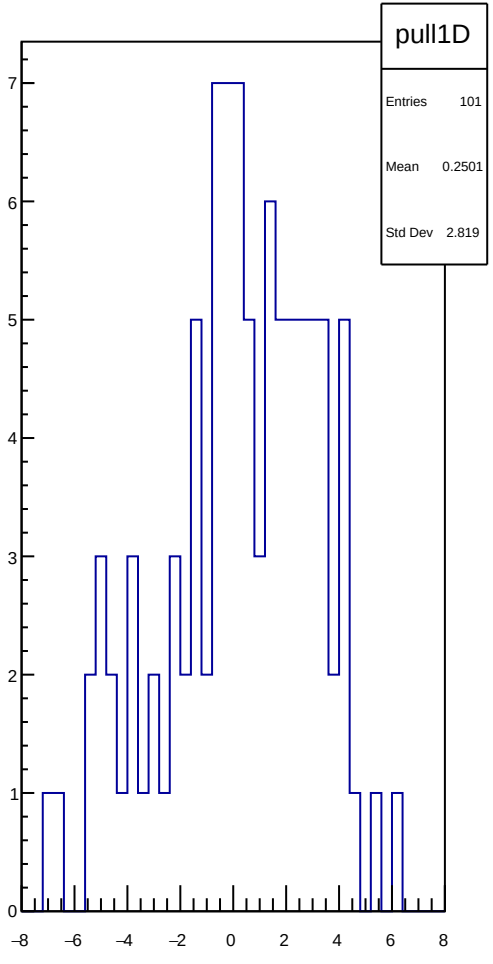

pull1D
Entries 101
Mean 0.01594
Std Dev 2.343

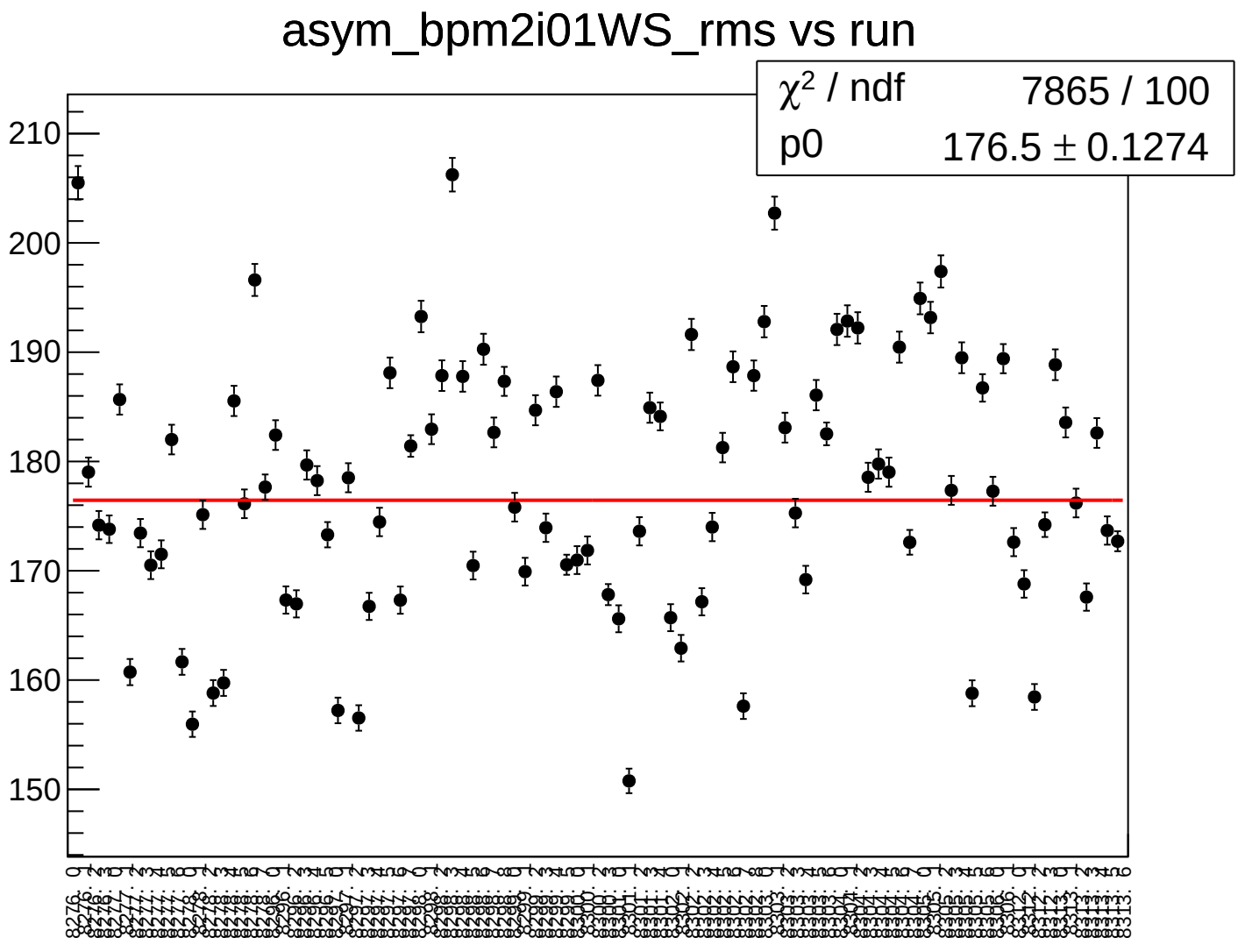

asym_bpm0i07WS_rms vs run
χ² / ndf 4468 / 100
p0 254.3 ± 0.1834
290
280
270
260
250
240
230

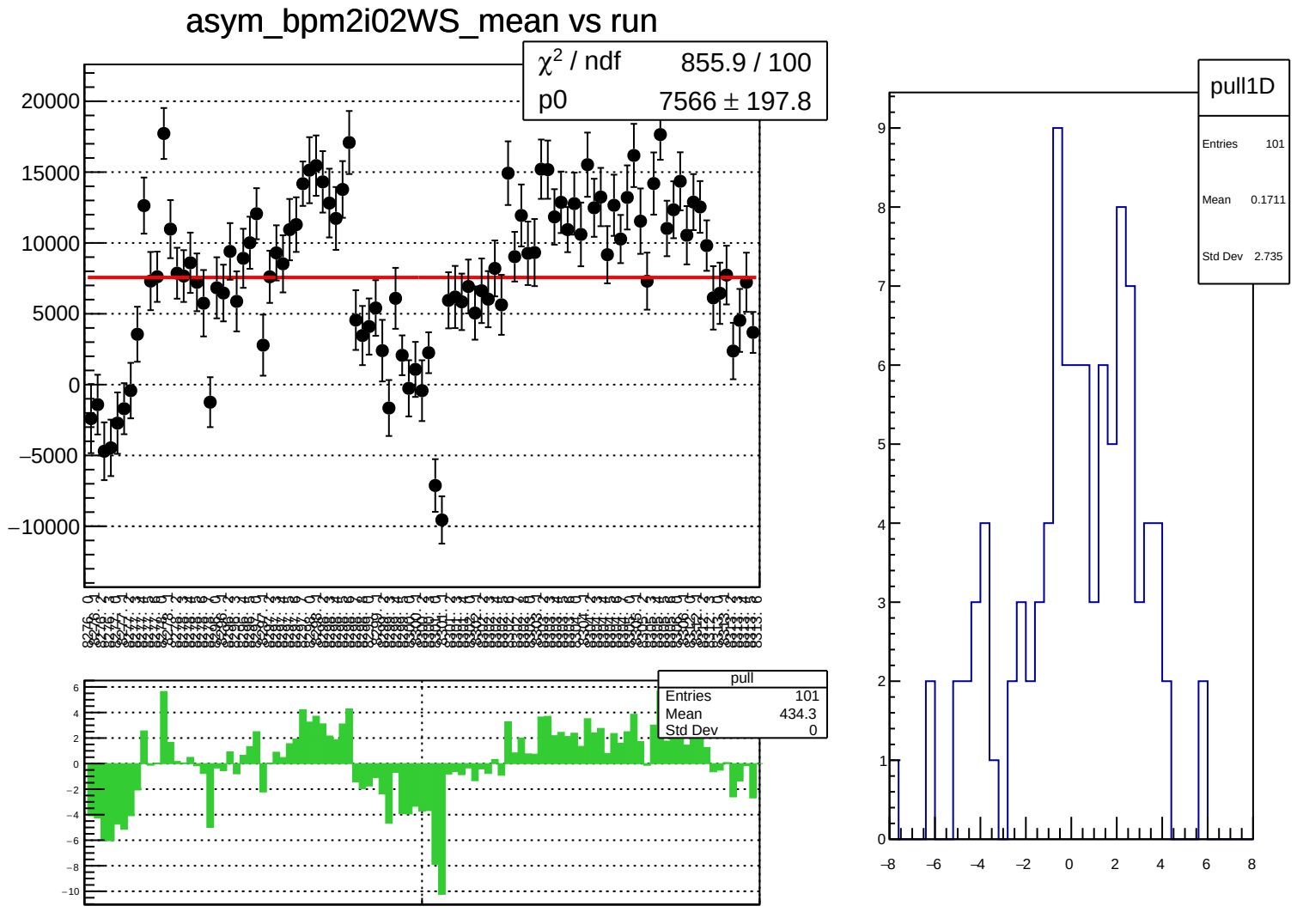

asym_bpm1i02WS_mean vs run
χ² / ndf 1011 / 100
p0 7726 ± 189.5
pull
Entries 101
Mean 448.8
Std Dev 0
pull1D
Entries 101
Mean 0.2896
Std Dev 2.865

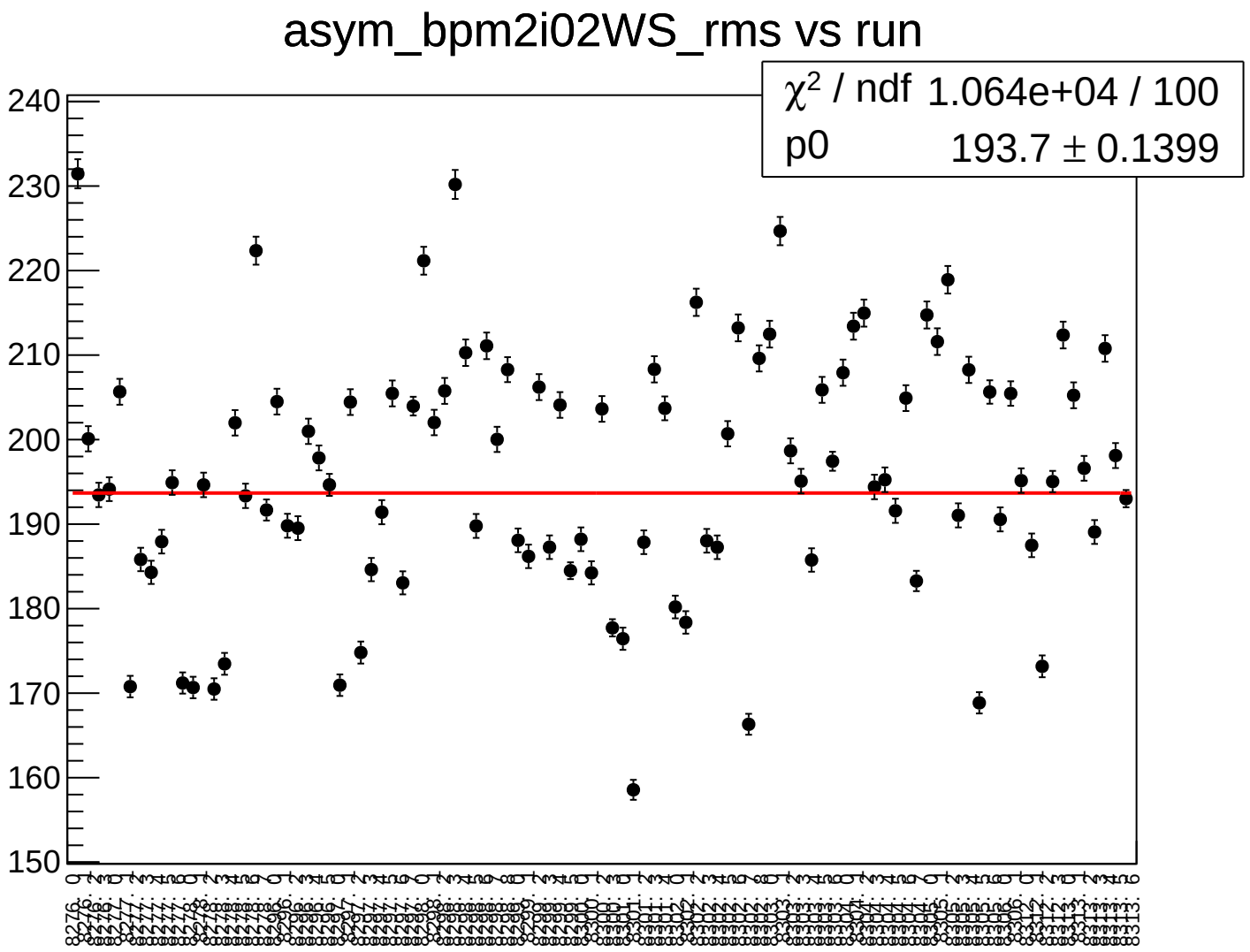

asym_bpm1i02WS_rms vs run
χ² / ndf 8440 / 100
p0 185.6 ± 0.134
220
210
200
190
180
170
160

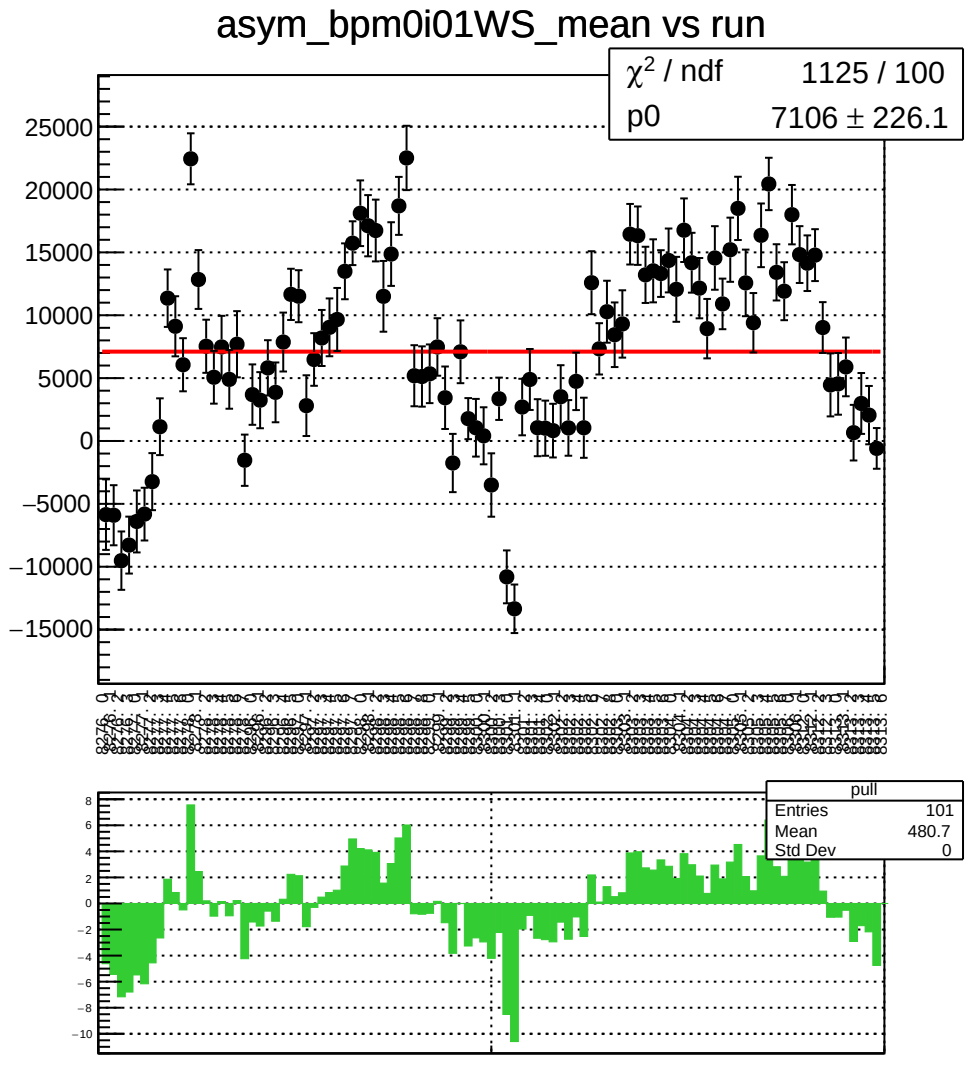

asym_bpm2i01WS_mean vs run
χ^2 / ndf 973.2 / 100
p0 7333 ± 180.1
20000
15000
10000
5000
0
−5000
−10000
pull
Entries 101
Mean 559.2
Std Dev 0
6
4
2
0
−2
−4
−6
−8
−10

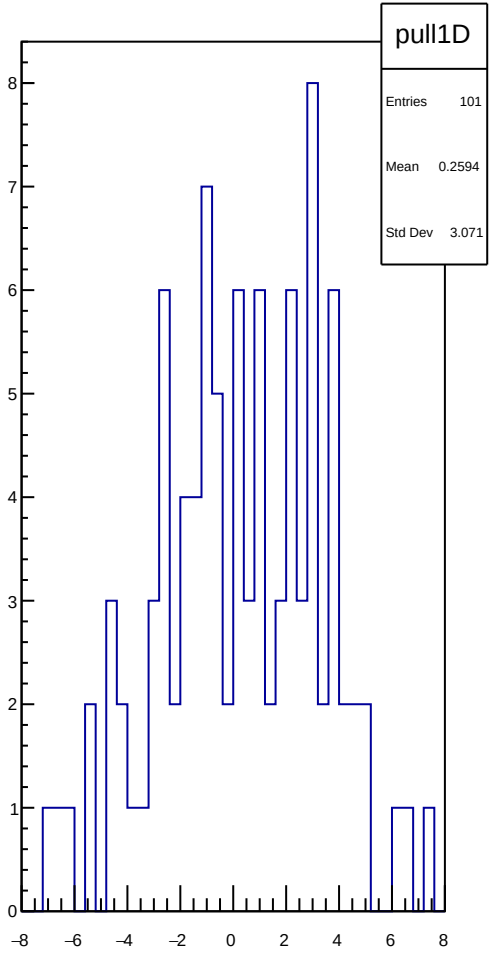

pull1D
Entries 101
Mean 0.2501
Std Dev 2.819
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

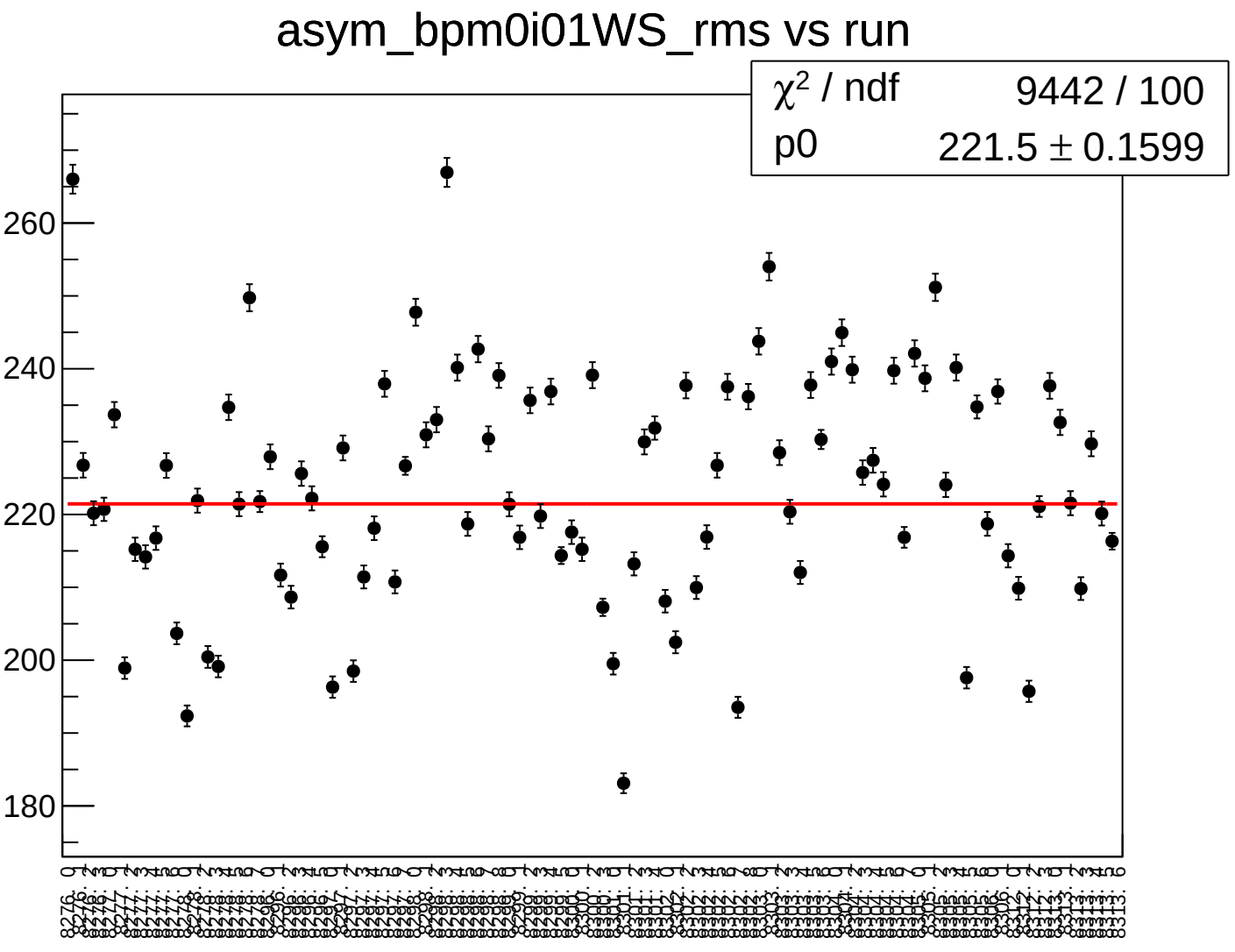

asym_bpm2i01WS_rms vs run
χ² / ndf 7865 / 100
p0 176.5 ± 0.1274
210
200
190
180
170
160
150

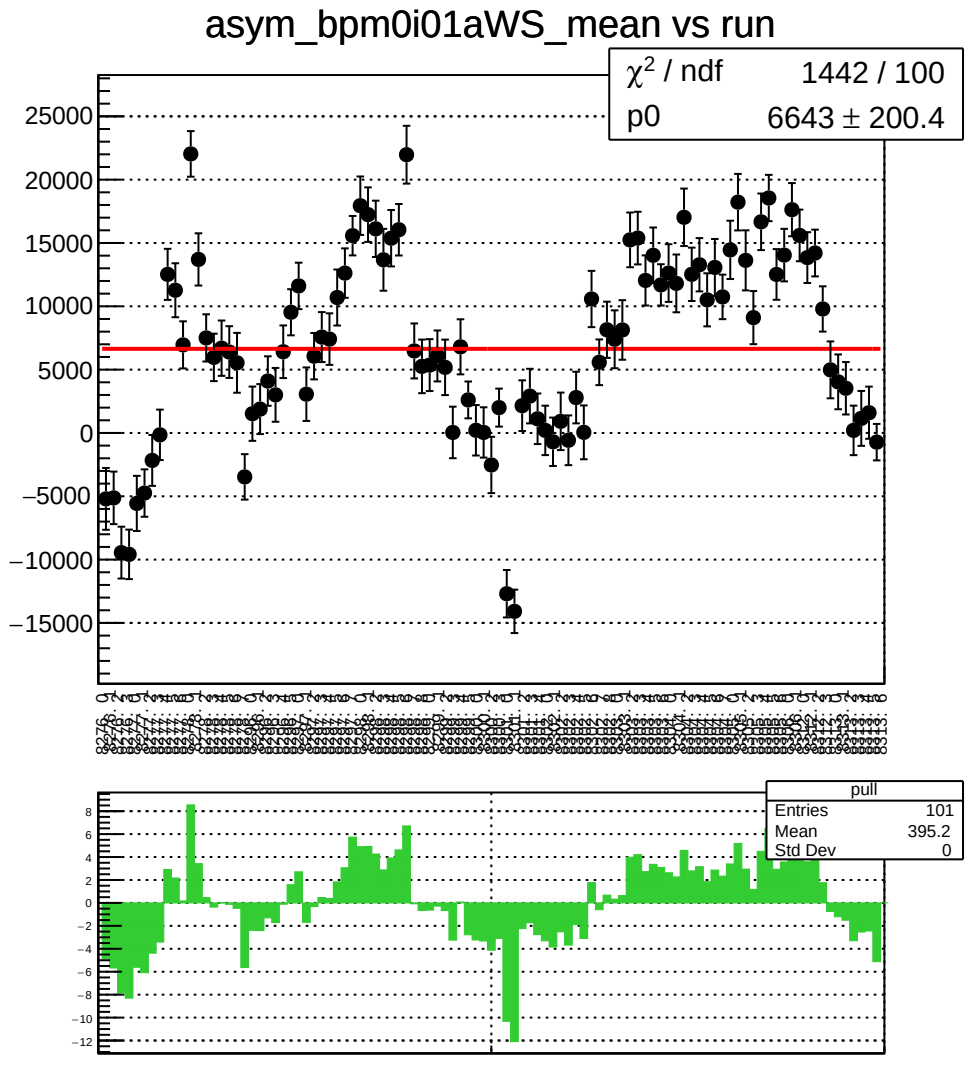

asym_bpm2i02WS_mean vs run
χ² / ndf 855.9 / 100
p0 7566 ± 197.8
20000
15000
10000
5000
0
−5000
−10000
pull
Entries 101
Mean 434.3
Std Dev 0
6
4
2
0
−2
−4
−6
−8
−10
pull1D
Entries 101
Mean 0.1711
Std Dev 2.735
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

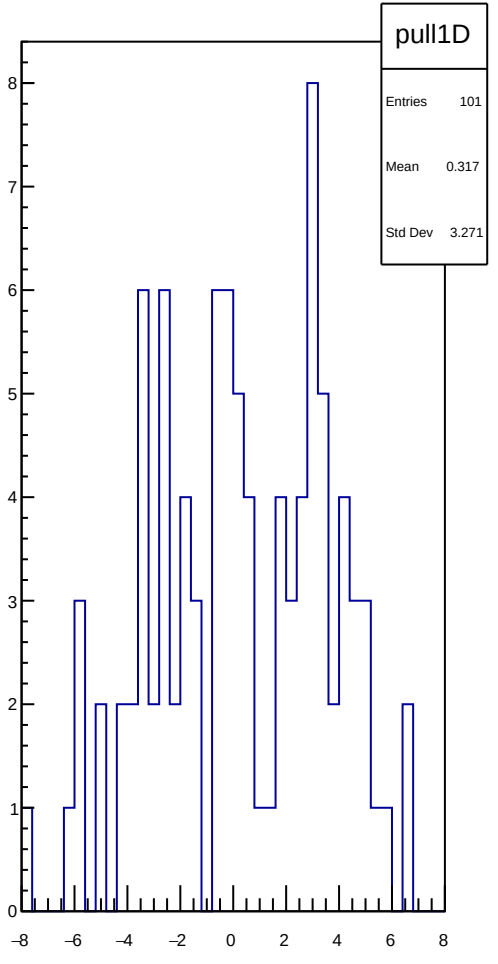

asym_bpm2i02WS_rms vs run
χ² / ndf 1.064e+04 / 100
p0 193.7 ± 0.1399
240
230
220
210
200
190
180
170
160
150

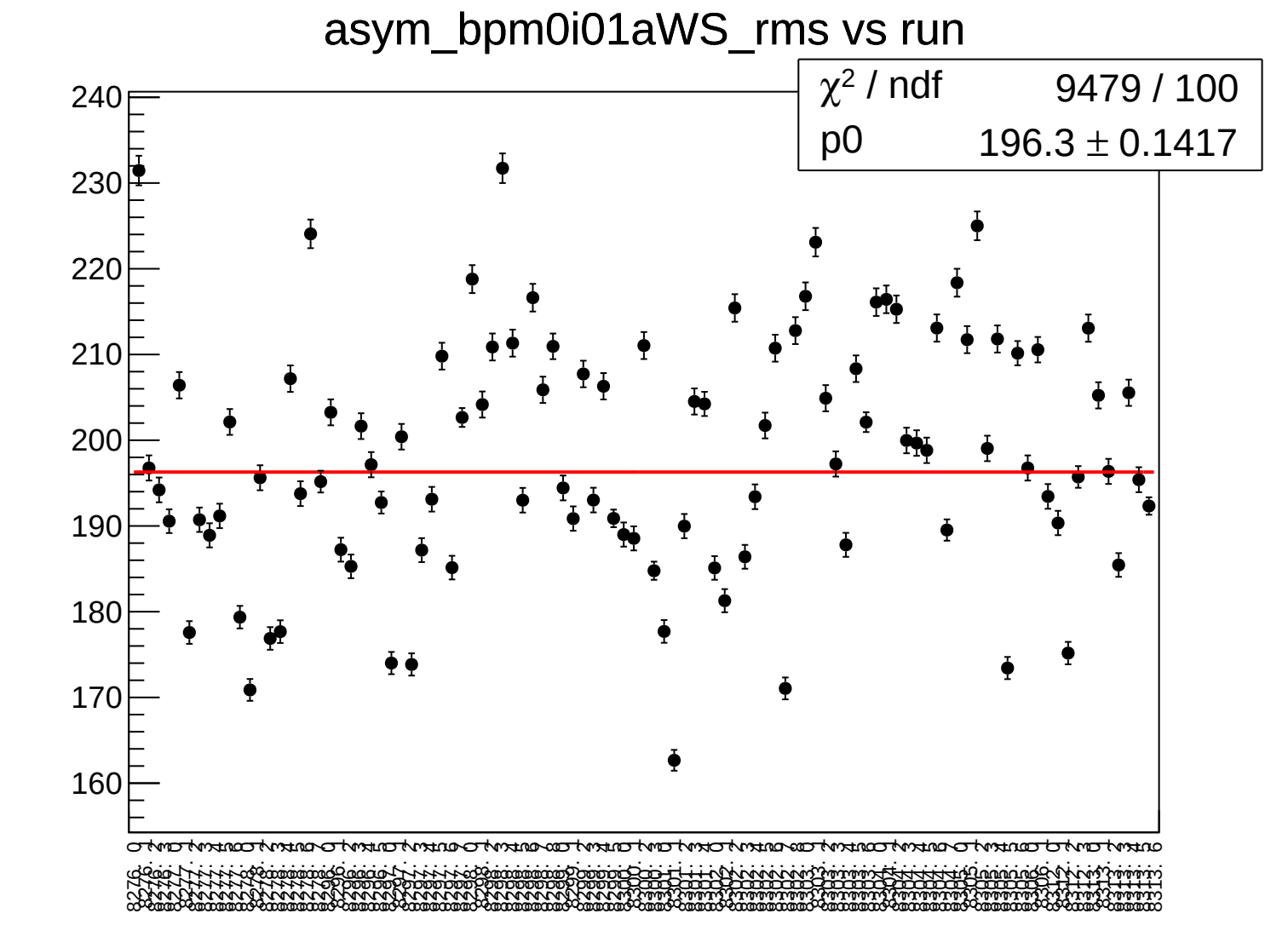

asym_bpm0i01WS_mean vs run
χ² / ndf 1125 / 100
p0 7106 ± 226.1
pull
Entries 101
Mean 480.7
Std Dev 0

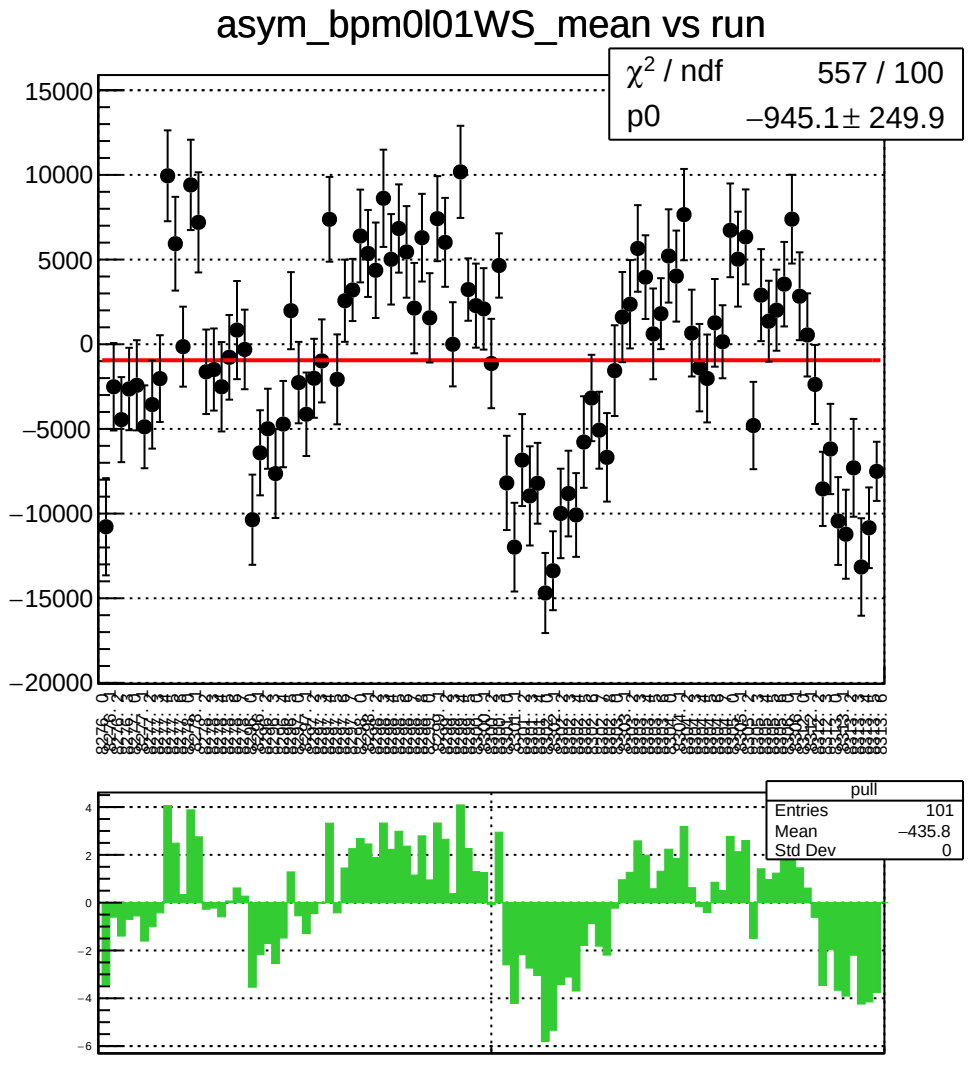

pull1D
Entries 101
Mean 0.2594
Std Dev 3.071

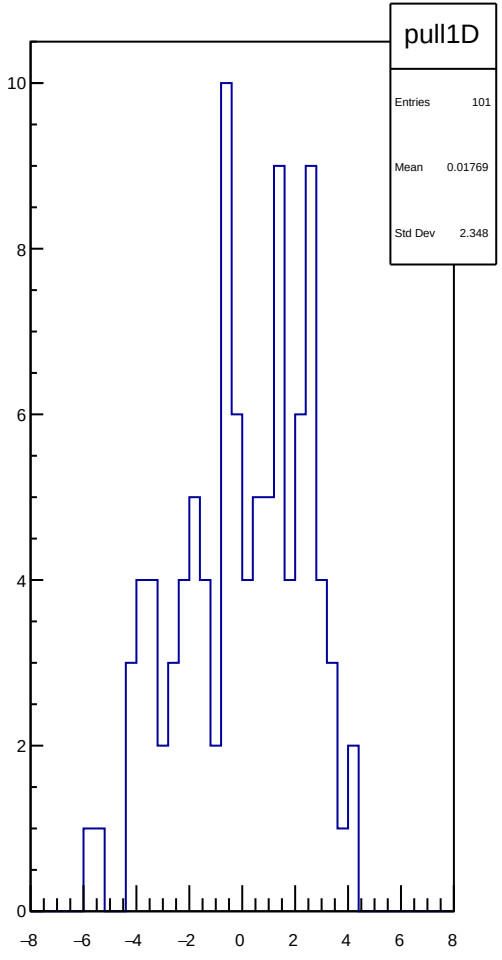

asym_bpm0i01WS_rms vs run
χ² / ndf 9442 / 100
p0 221.5 ± 0.1599
260
240
220
200
180

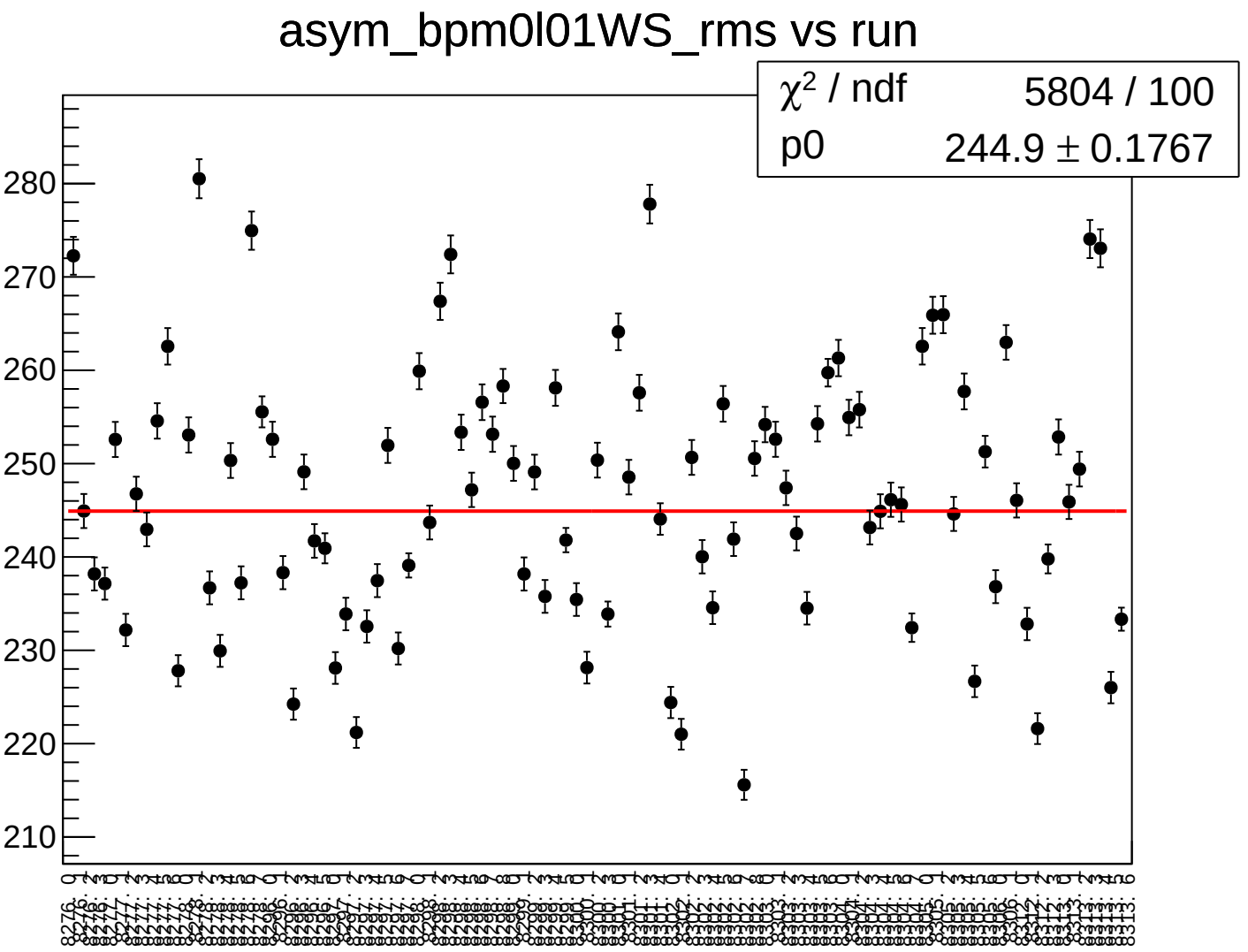

asym_bpm0i01aWS_mean vs run
χ² / ndf 1442 / 100
p0 6643 ± 200.4
pull
Entries 101
Mean 395.2
Std Dev 0

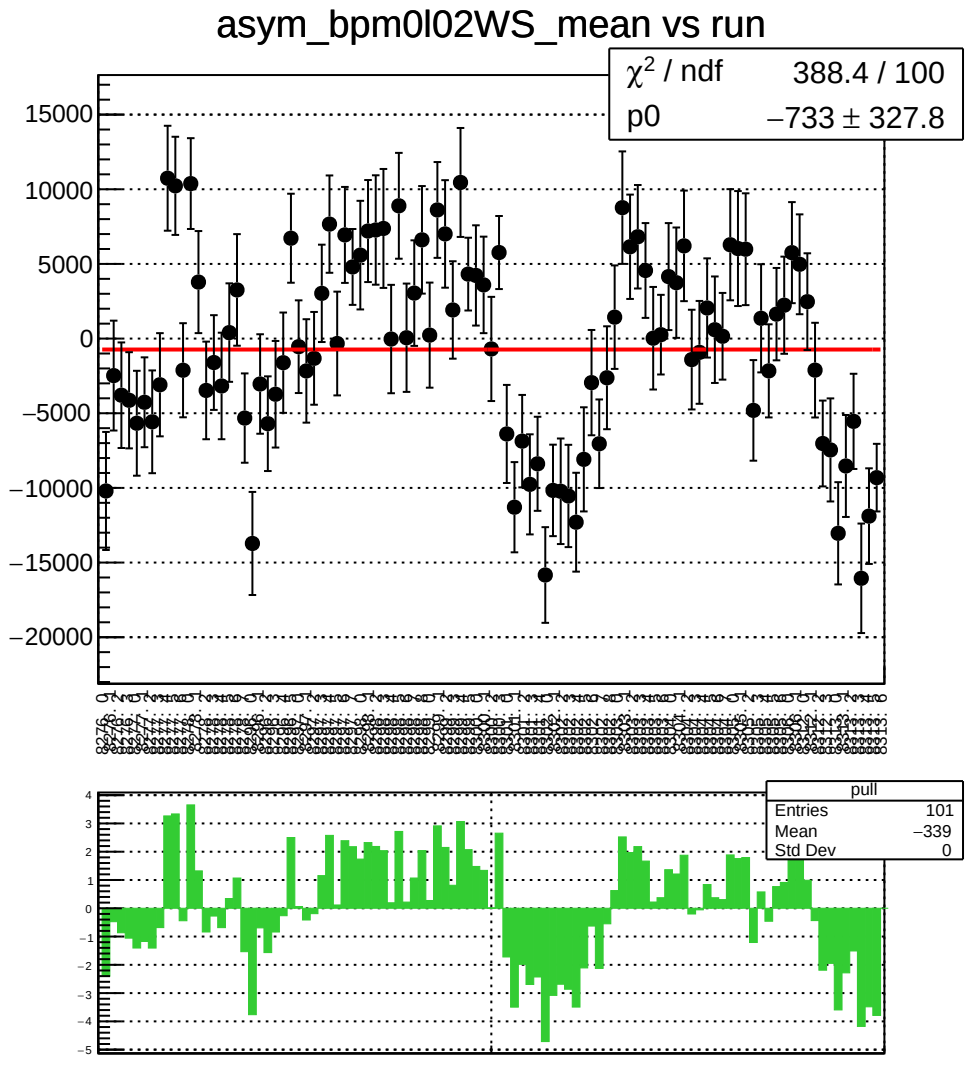

pull1D
Entries 101
Mean 0.317
Std Dev 3.271

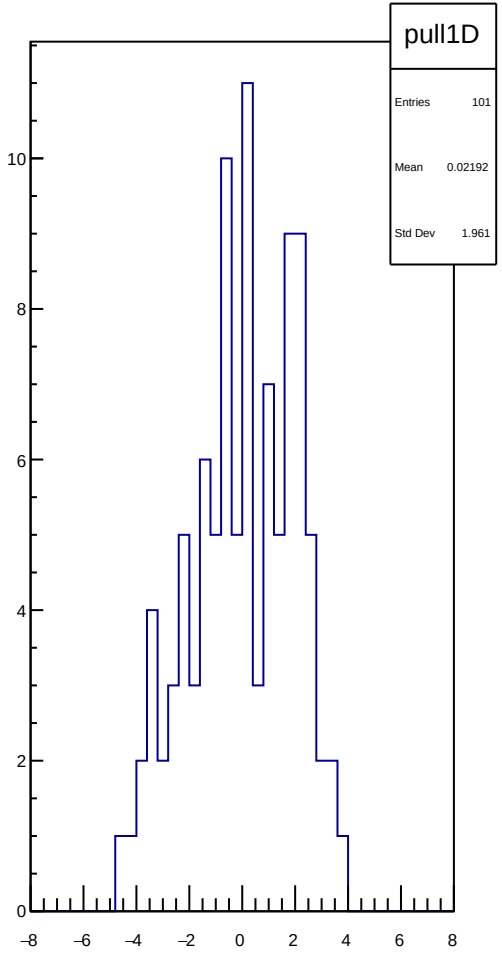

asym_bpm0i01aWS_rms vs run
χ² / ndf 9479 / 100
p0 196.3 ± 0.1417
240
230
220
210
200
190
180
170
160

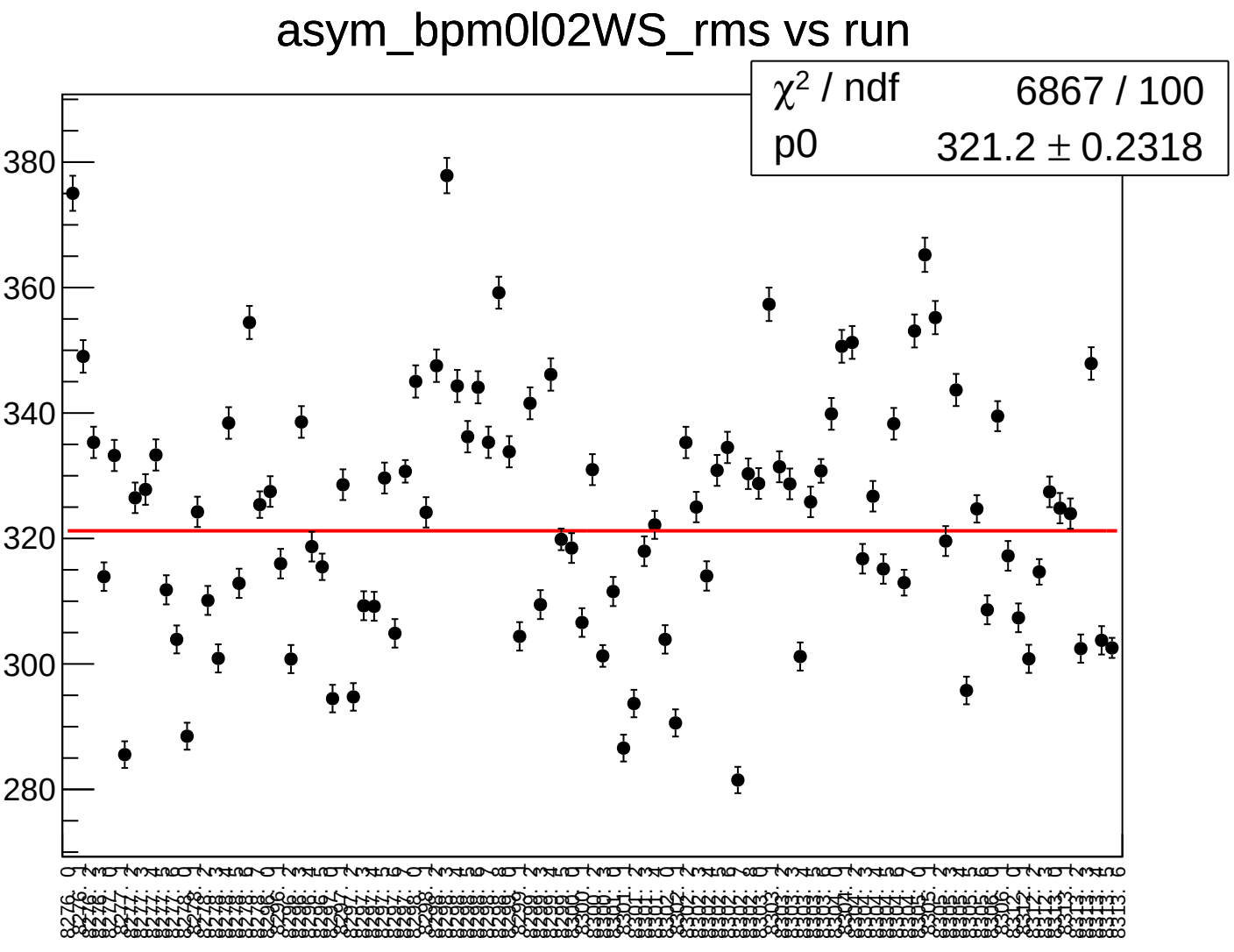

asym_bpm0l01WS_mean vs run
χ² / ndf 557 / 100
p0 −945.1 ± 249.9
pull
Entries 101
Mean −435.8
Std Dev 0

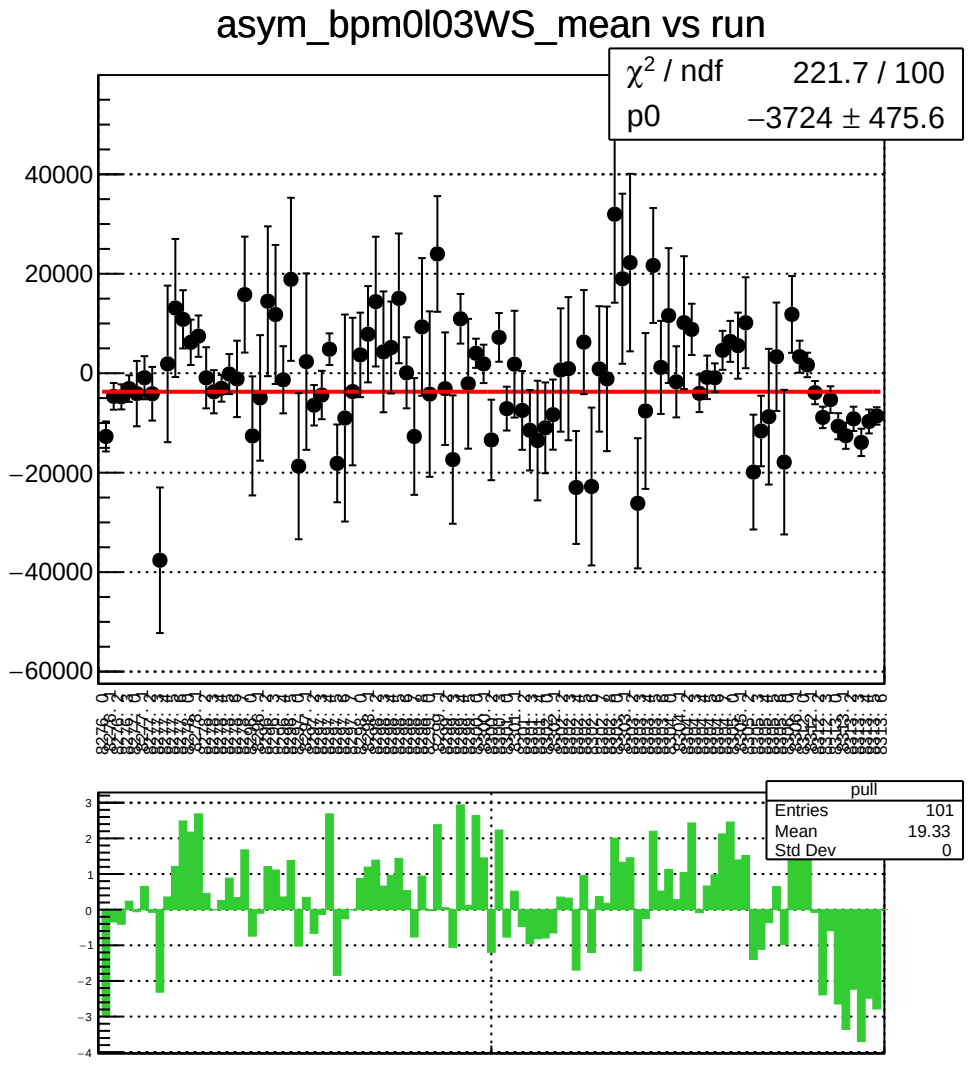

pull1D
Entries 101
Mean 0.01769
Std Dev 2.348

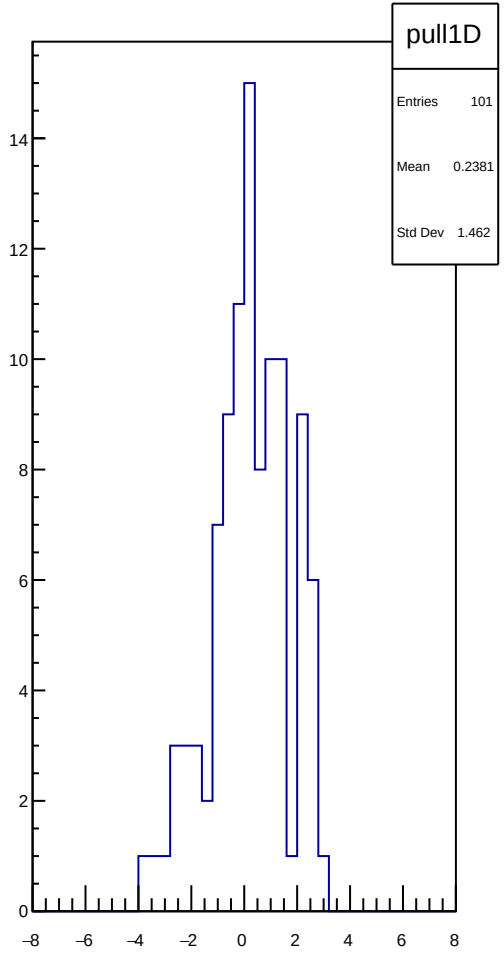

asym_bpm0l01WS_rms vs run
χ^2 / ndf 5804 / 100
p0 244.9 ± 0.1767
280
270
260
250
240
230
220
210

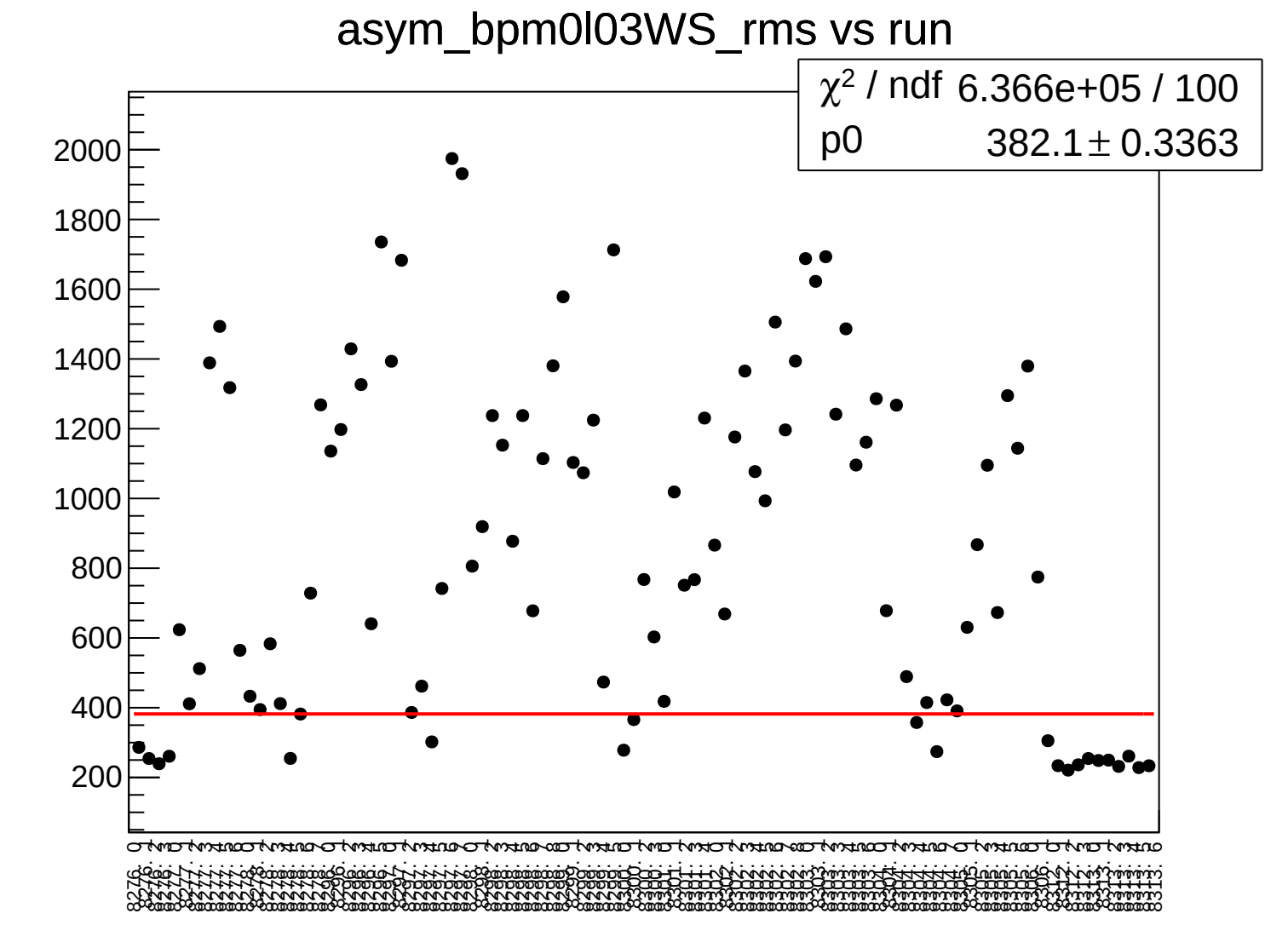

asym_bpm0l02WS_mean vs run
χ² / ndf 388.4 / 100
p0 −733 ± 327.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 101
Mean −339
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4
−5

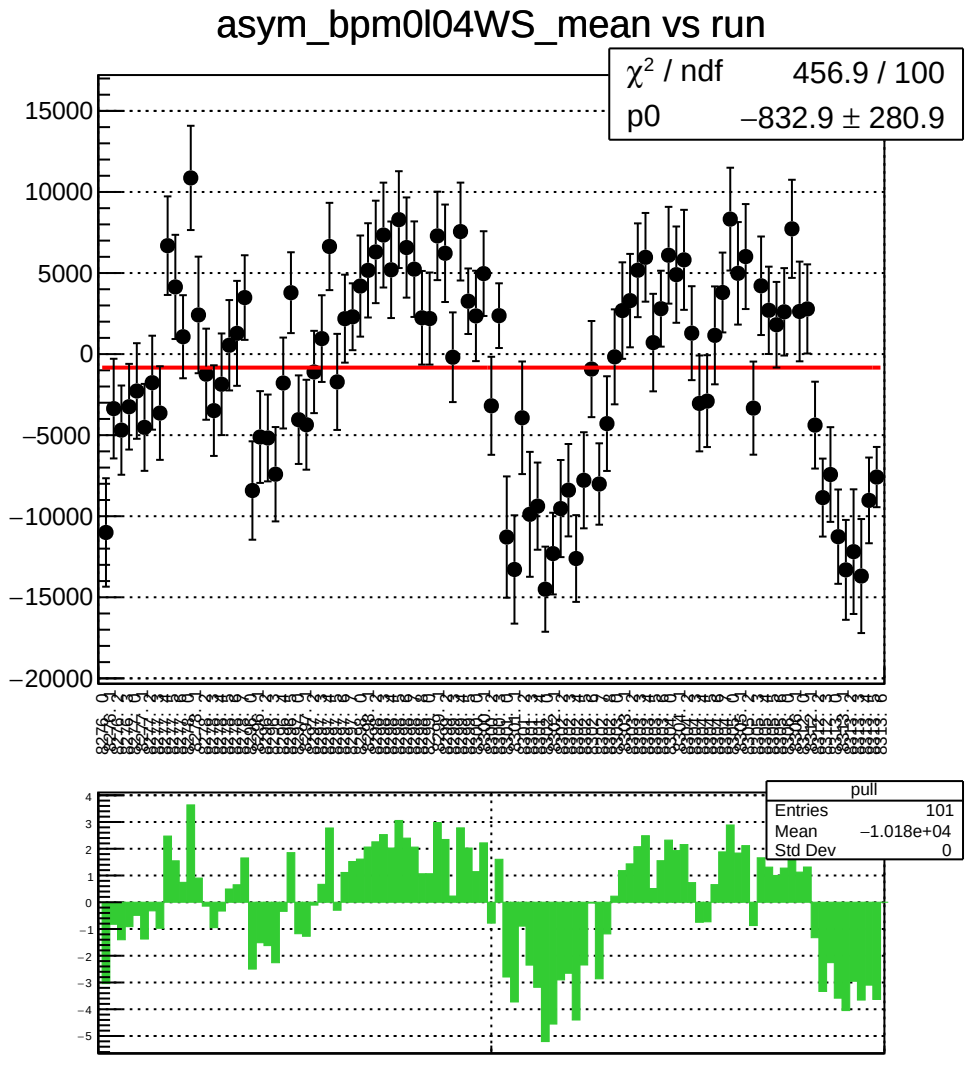

pull1D
Entries 101
Mean 0.02192
Std Dev 1.961
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

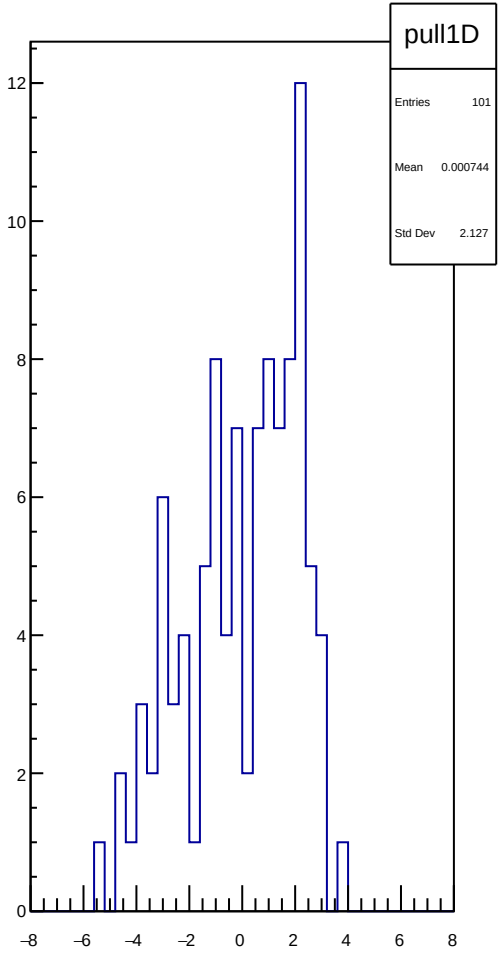

asym_bpm0l02WS_rms vs run
χ² / ndf 6867 / 100
p0 321.2 ± 0.2318
380
360
340
320
300
280

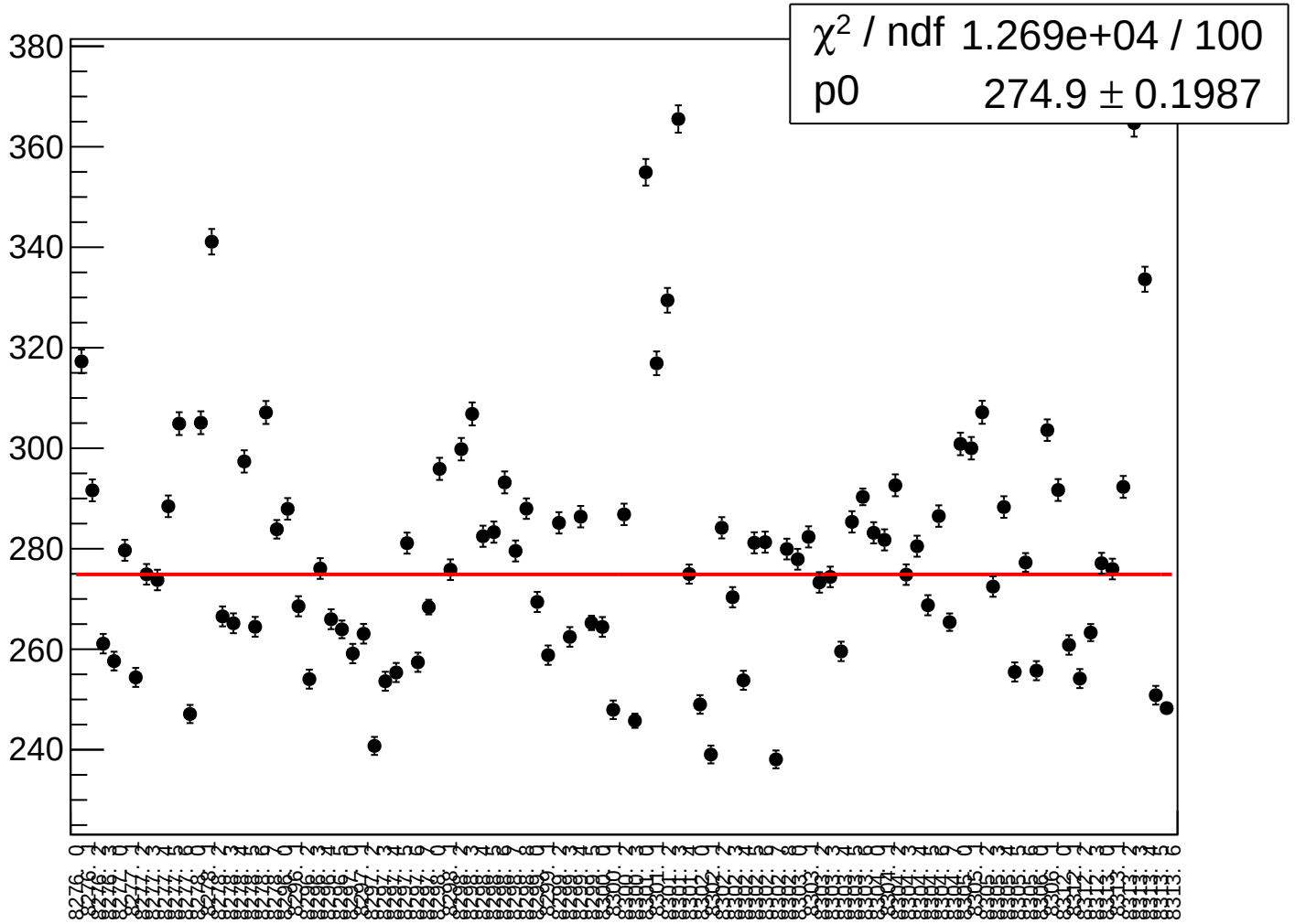

asym_bpm0l03WS_mean vs run
χ² / ndf 221.7 / 100
p0 −3724 ± 475.6
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean 19.33
Std Dev 0
3
2
1
0
−1
−2
−3
−4

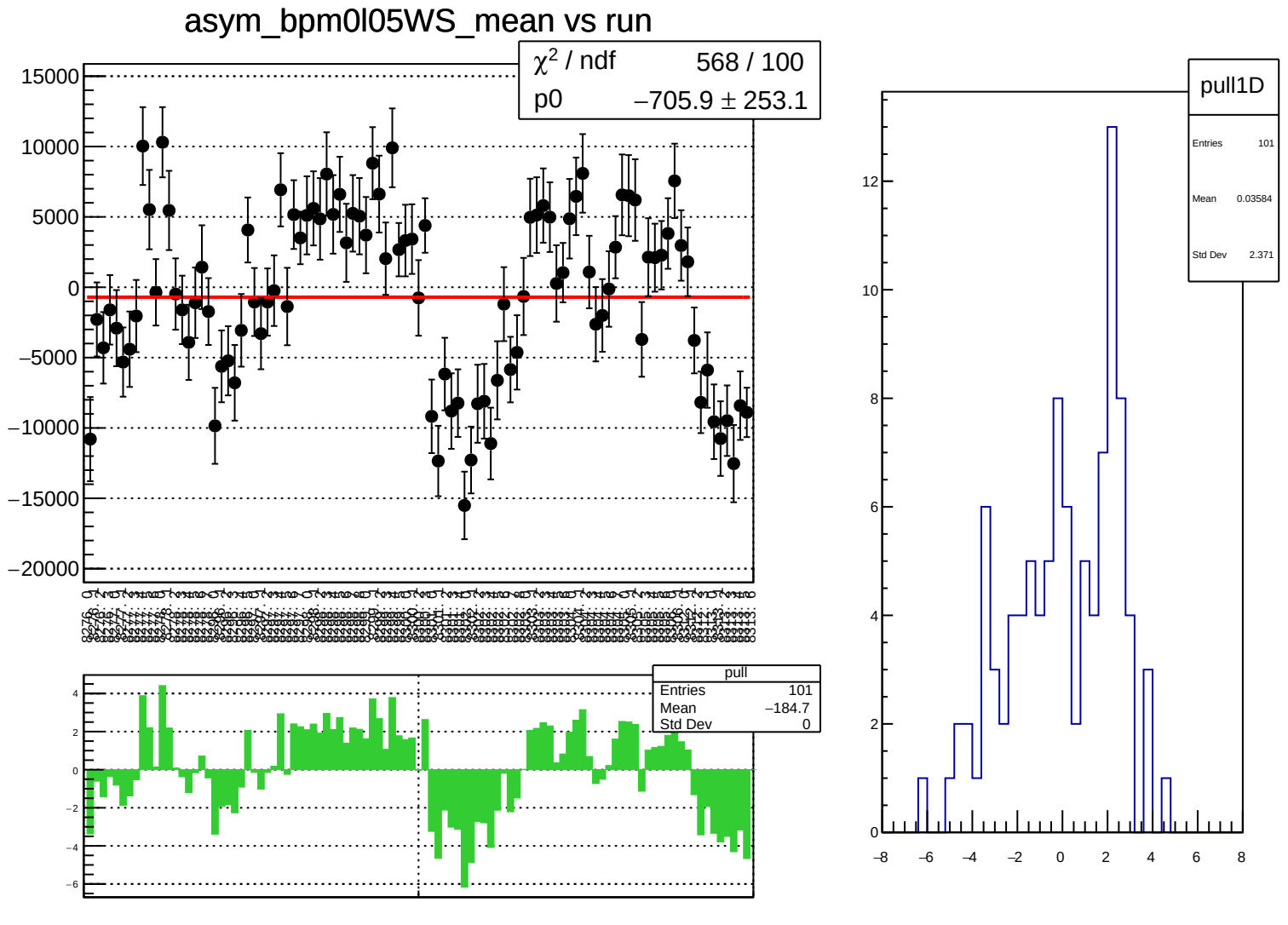

pull1D
Entries 101
Mean 0.2381
Std Dev 1.462
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

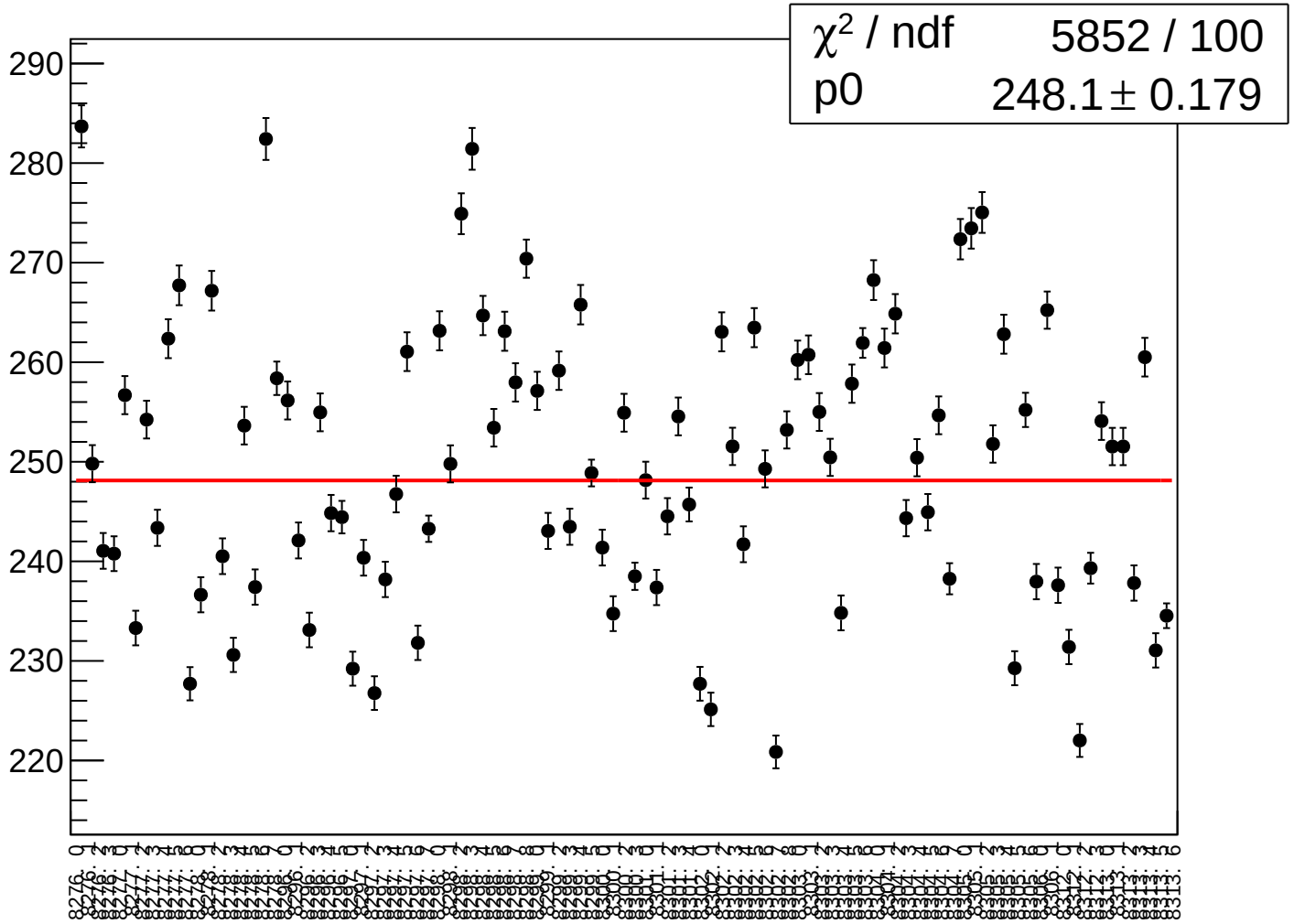

asym_bpm0l03WS_rms vs run
χ² / ndf 6.366e+05 / 100
p0 382.1 ± 0.3363
2000
1800
1600
1400
1200
1000
800
600
400
200

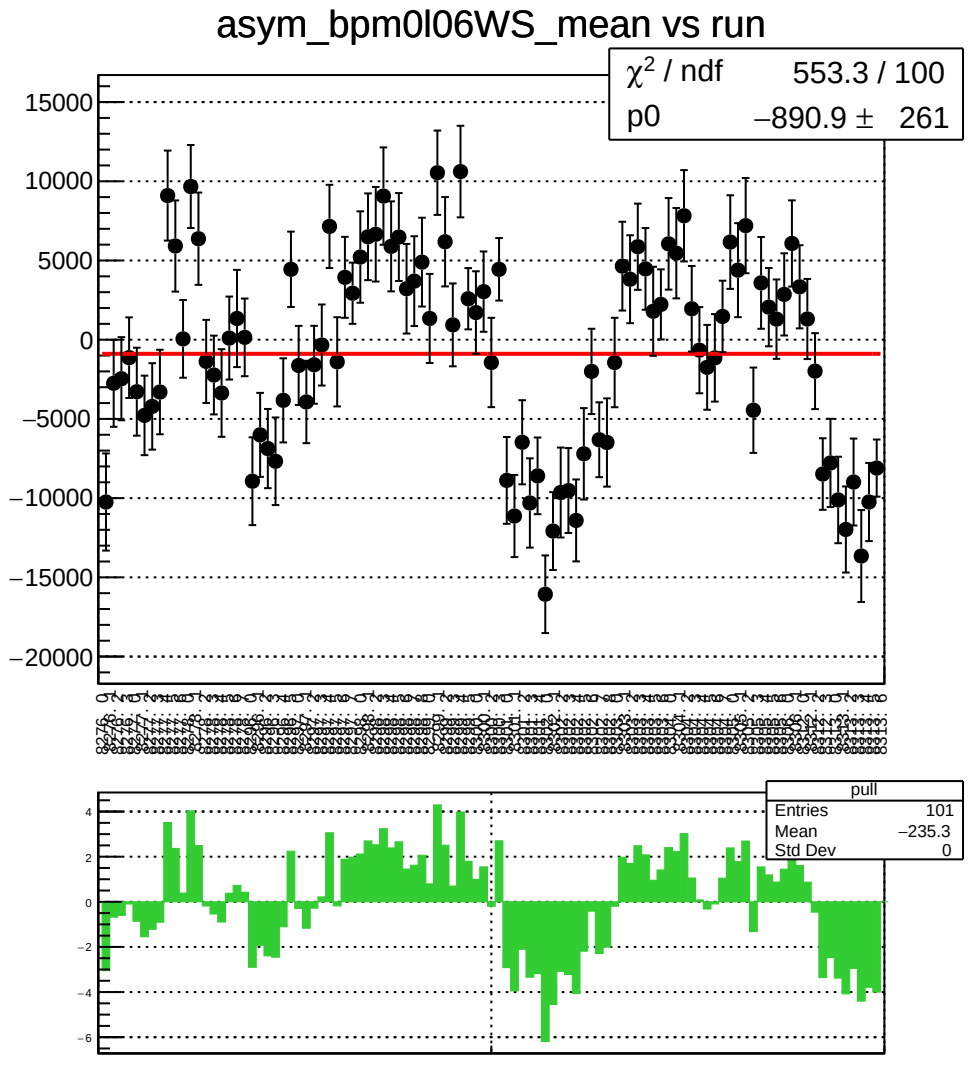

asym_bpm0l04WS_mean vs run
χ² / ndf 456.9 / 100
p0 −832.9 ± 280.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 101
Mean −1.018e+04
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4
−5

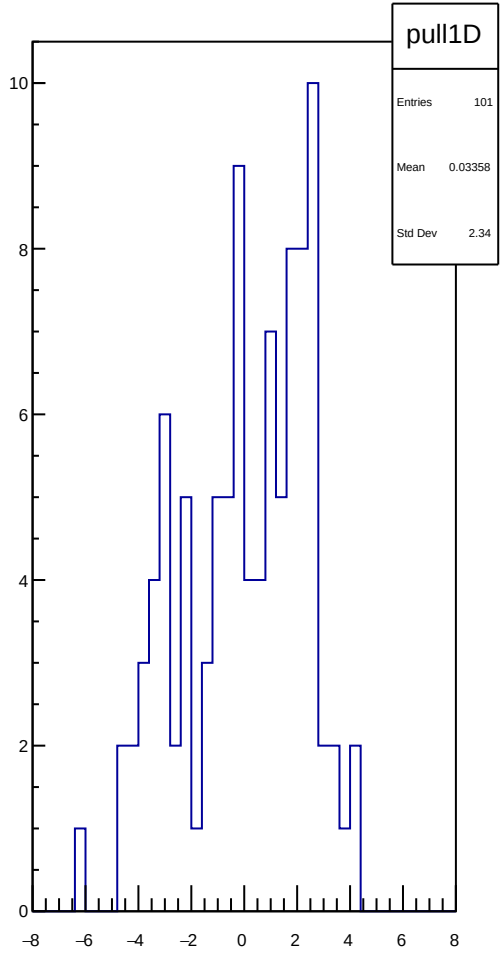

pull1D
Entries 101
Mean 0.000744
Std Dev 2.127
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

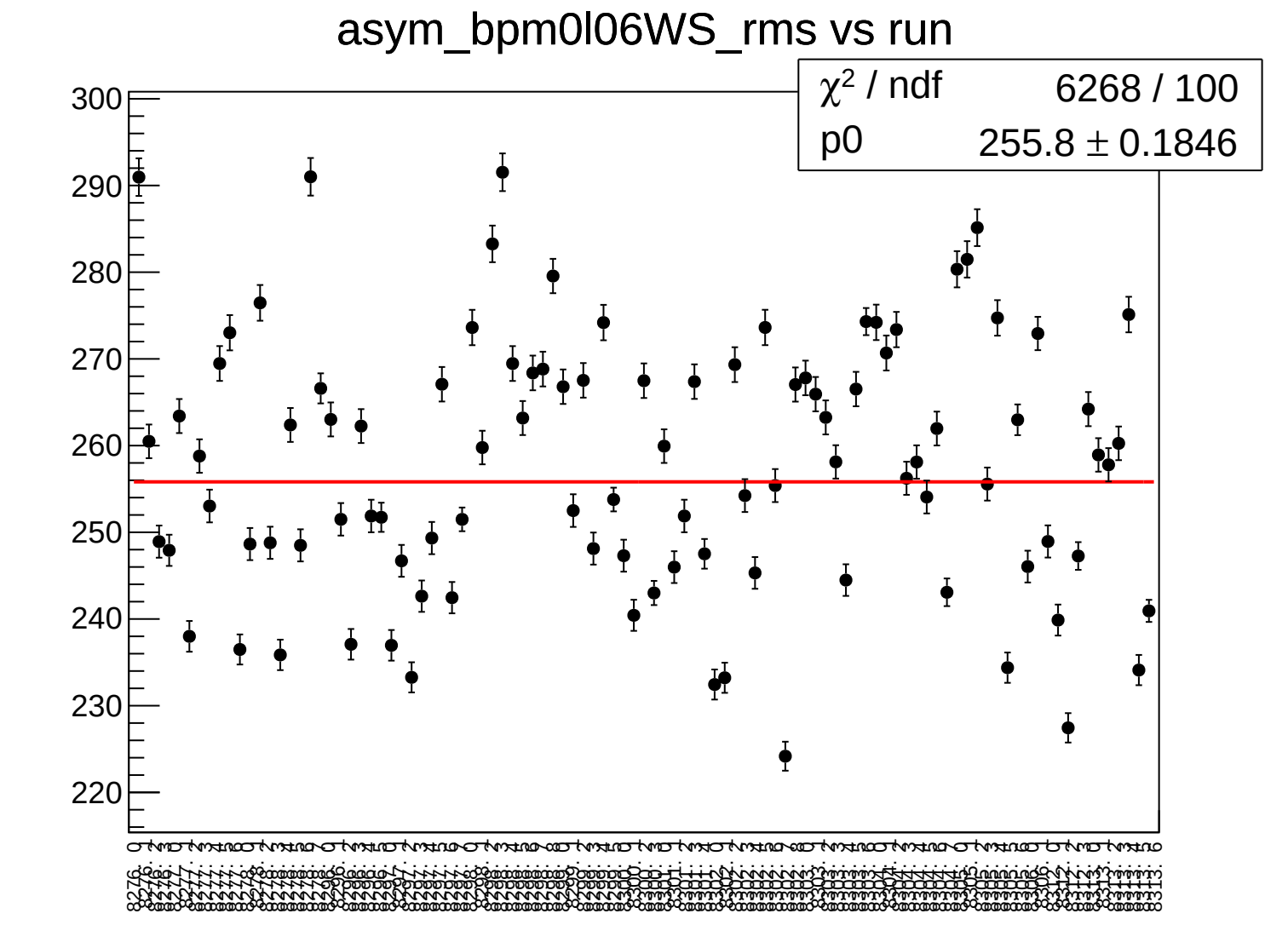

asym_bpm0l04WS_rms vs run
χ² / ndf 1.269e+04 / 100
p0 274.9 ± 0.1987
380
360
340
320
300
280
260
240

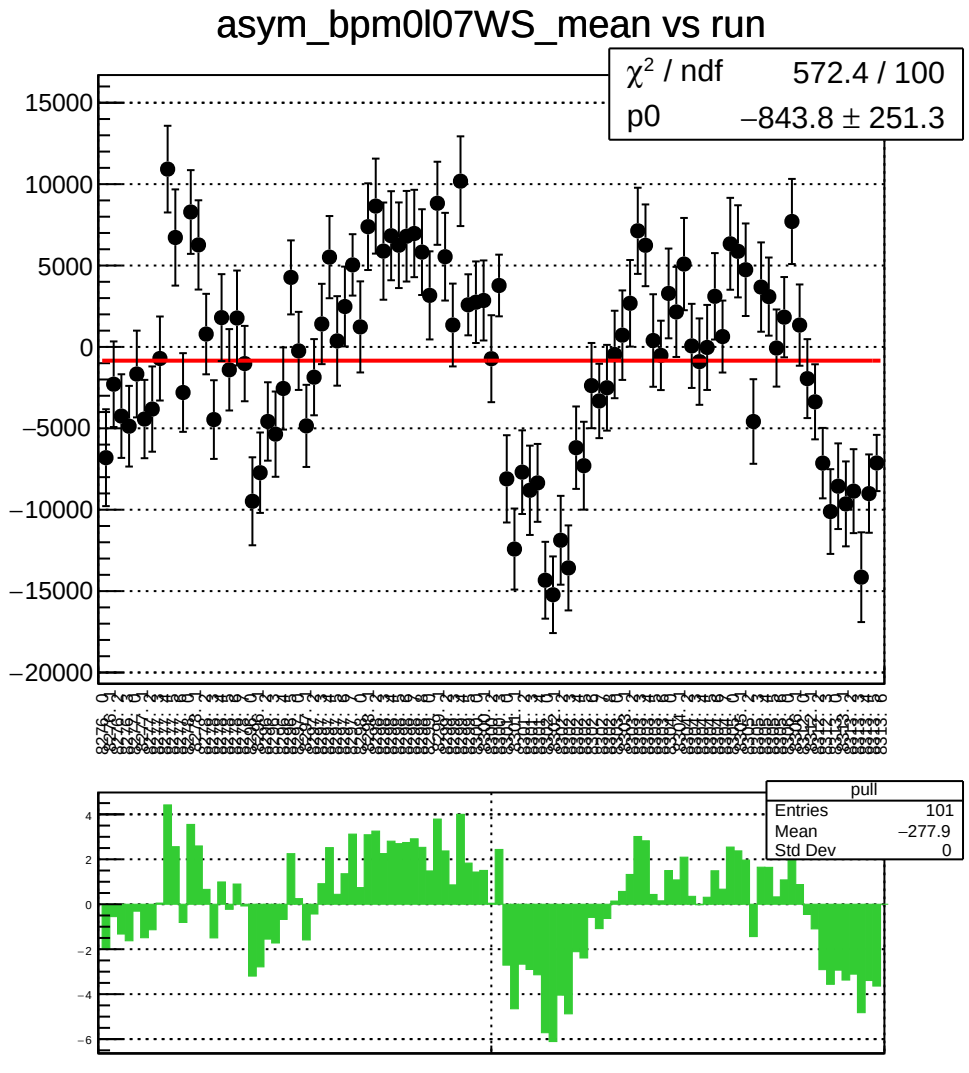

asym_bpm0l05WS_mean vs run
χ² / ndf 568 / 100
p0 −705.9 ± 253.1
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 101
Mean −184.7
Std Dev 0
4
2
0
−2
−4
−6
pull1D
Entries 101
Mean 0.03584
Std Dev 2.371
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

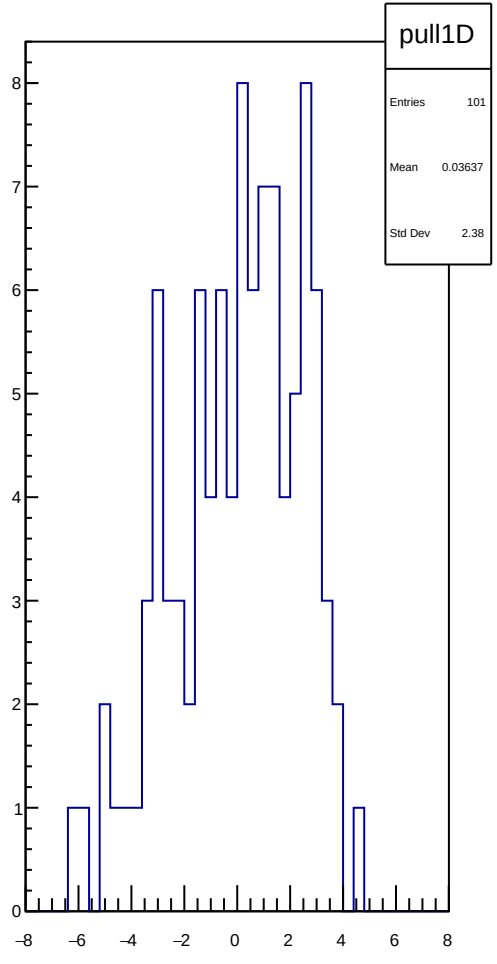

asym_bpm0l05WS_rms vs run
χ^2 / ndf 5852 / 100
p0 248.1 ± 0.179
290
280
270
260
250
240
230
220

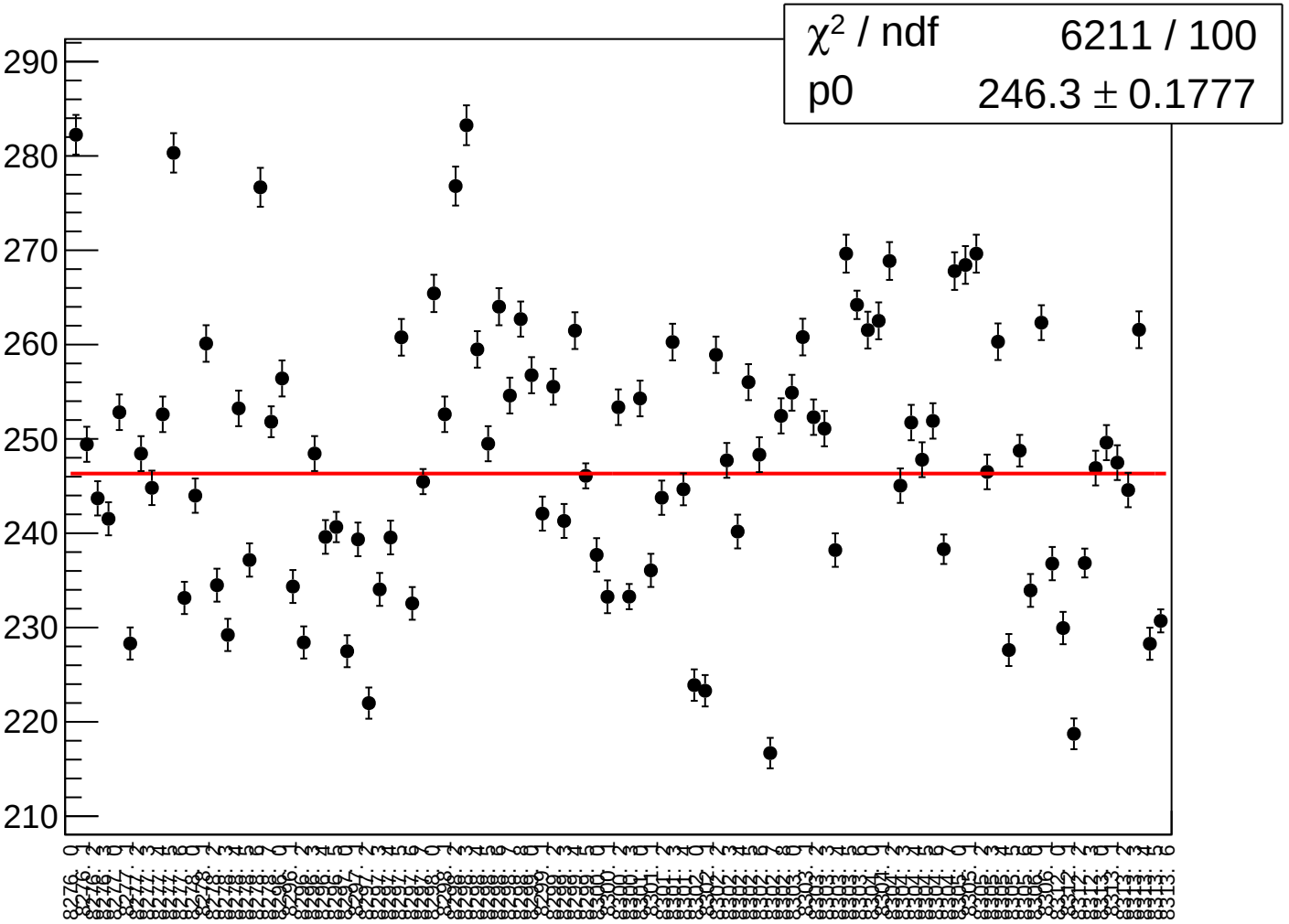

asym_bpm0l06WS_mean vs run
χ² / ndf 553.3 / 100
p0 −890.9 ± 261
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 101
Mean −235.3
Std Dev 0
4
2
0
−2
−4
−6

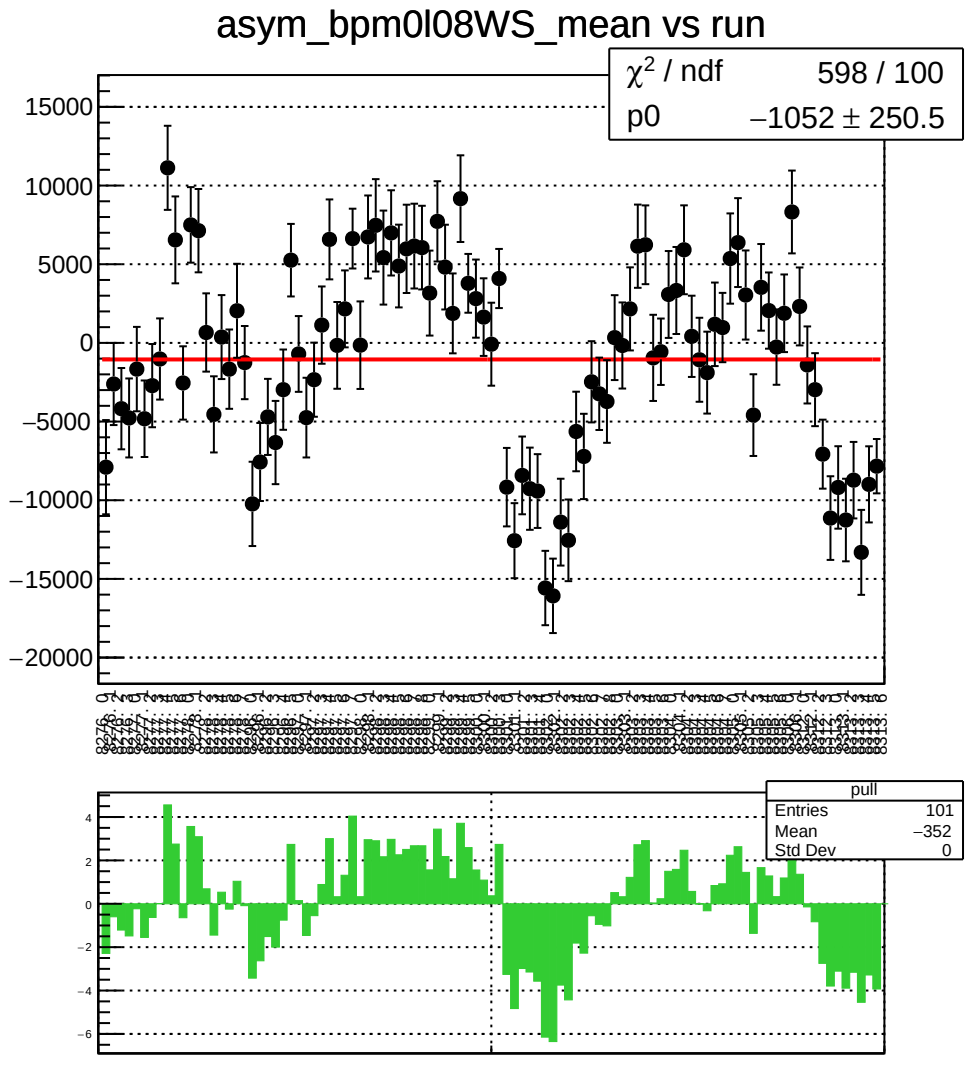

pull1D
Entries 101
Mean 0.03358
Std Dev 2.34
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

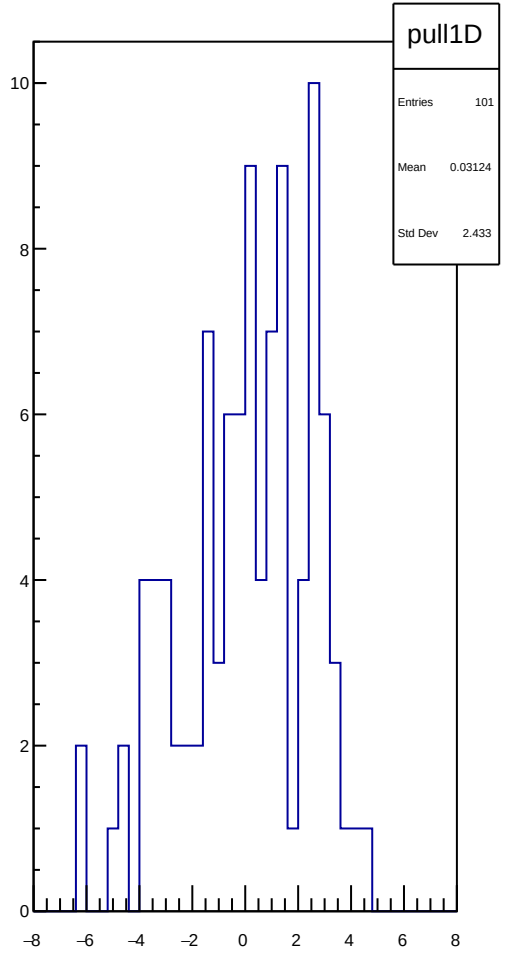

asym_bpm0l06WS_rms vs run
χ² / ndf 6268 / 100
p0 255.8 ± 0.1846
300
290
280
270
260
250
240
230
220

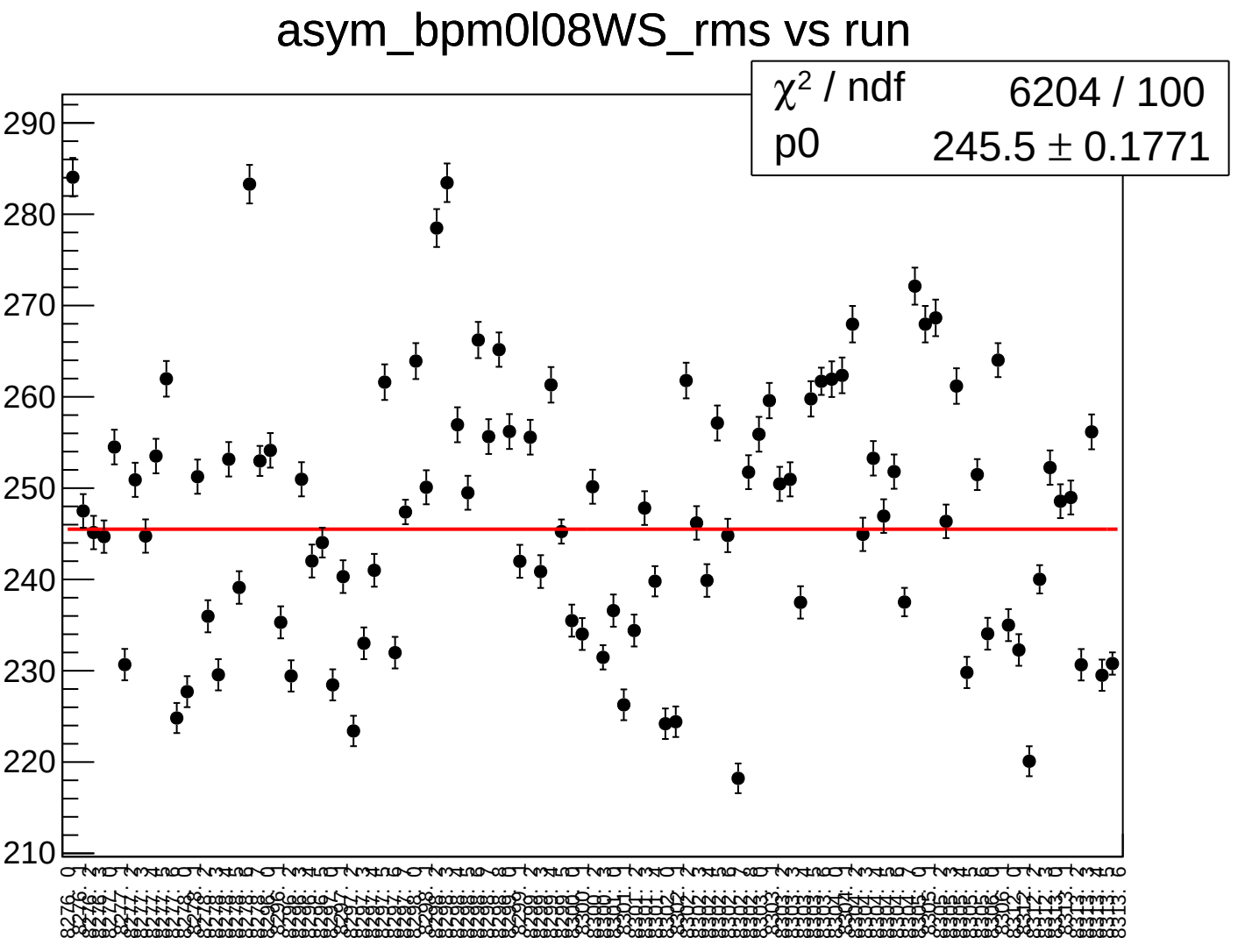

asym_bpm0l07WS_mean vs run
χ² / ndf 572.4 / 100
p0 −843.8 ± 251.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 101
Mean −277.9
Std Dev 0
4
2
0
−2
−4
−6

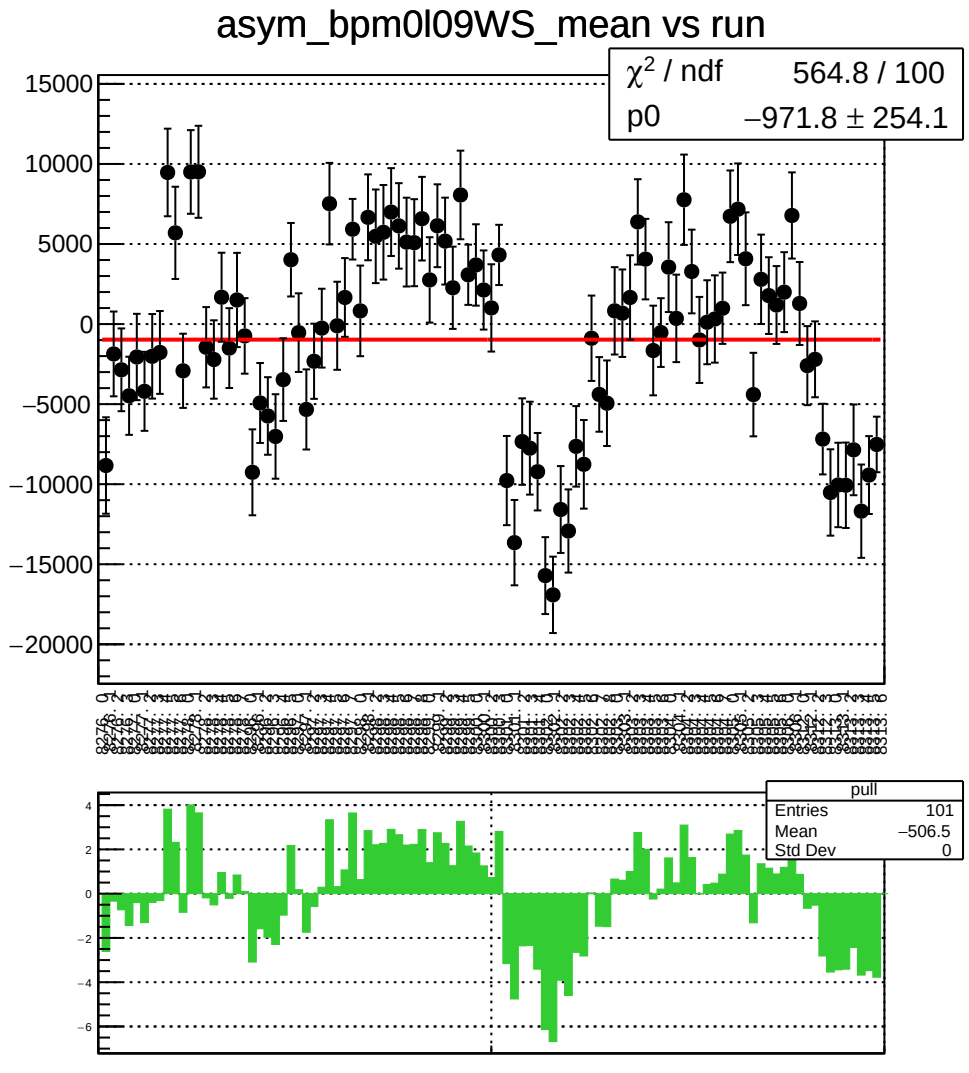

pull1D
Entries 101
Mean 0.03637
Std Dev 2.38
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

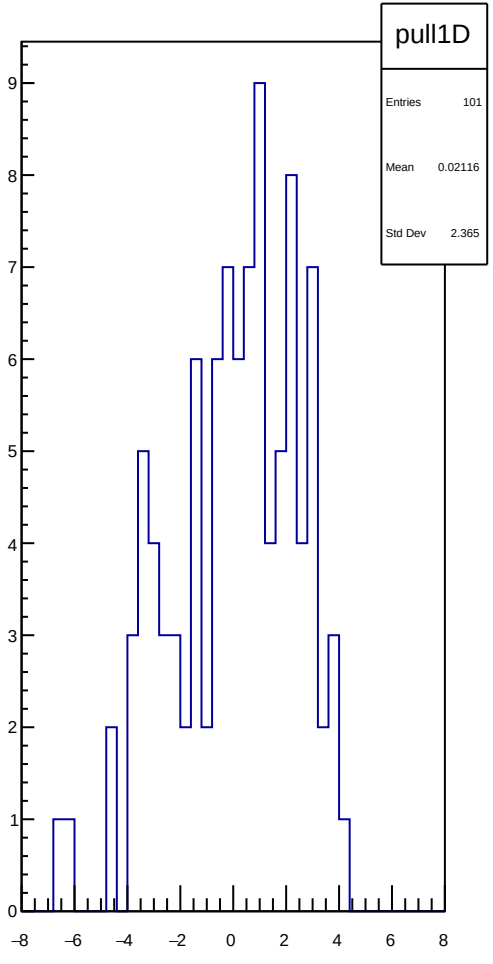

asym_bpm0l07WS_rms vs run
χ² / ndf 6211 / 100
p0 246.3 ± 0.1777
290
280
270
260
250
240
230
220
210

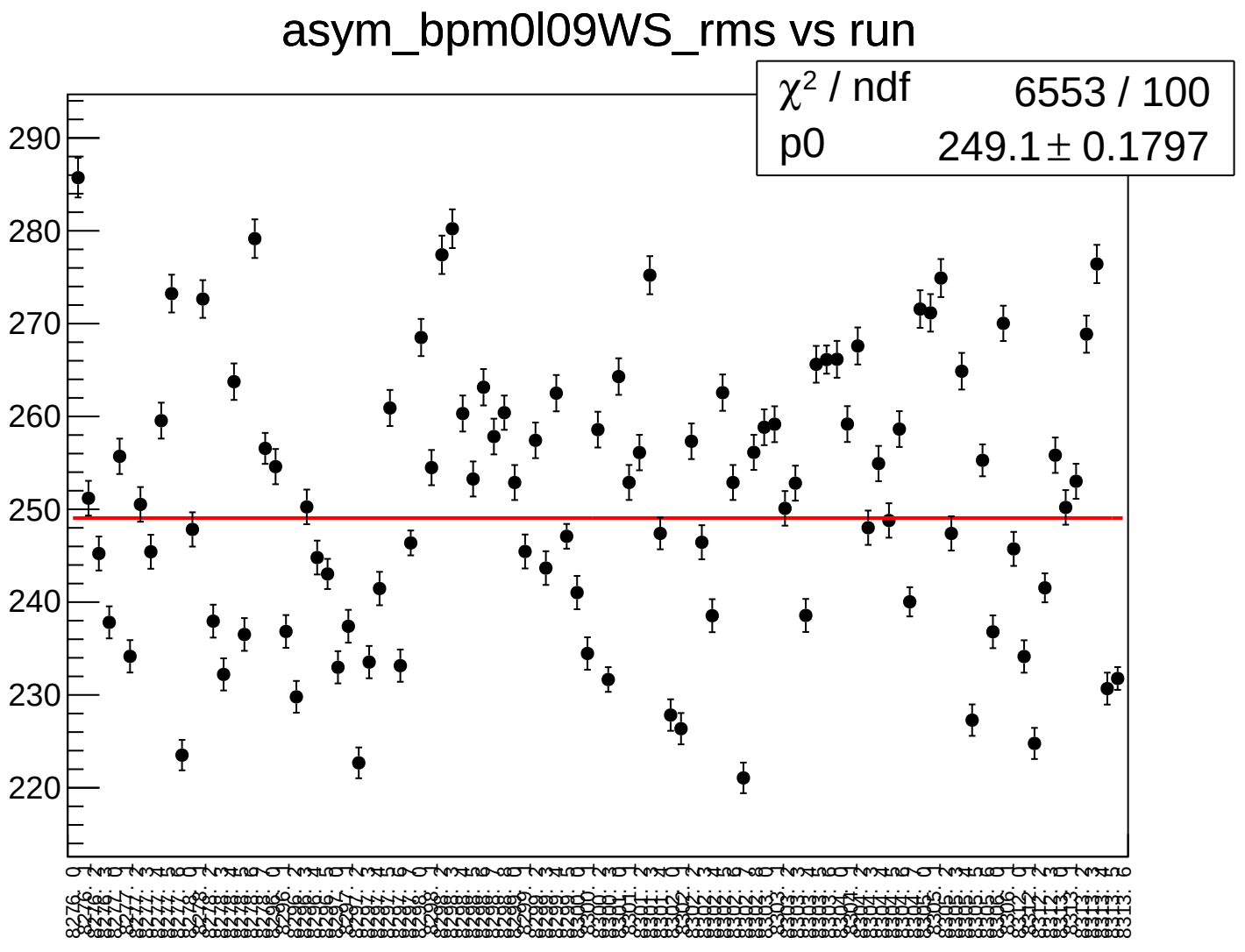

asym_bpm0l08WS_mean vs run
χ² / ndf 598 / 100
p0 −1052 ± 250.5
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 101
Mean −352
Std Dev 0
4
2
0
−2
−4
−6

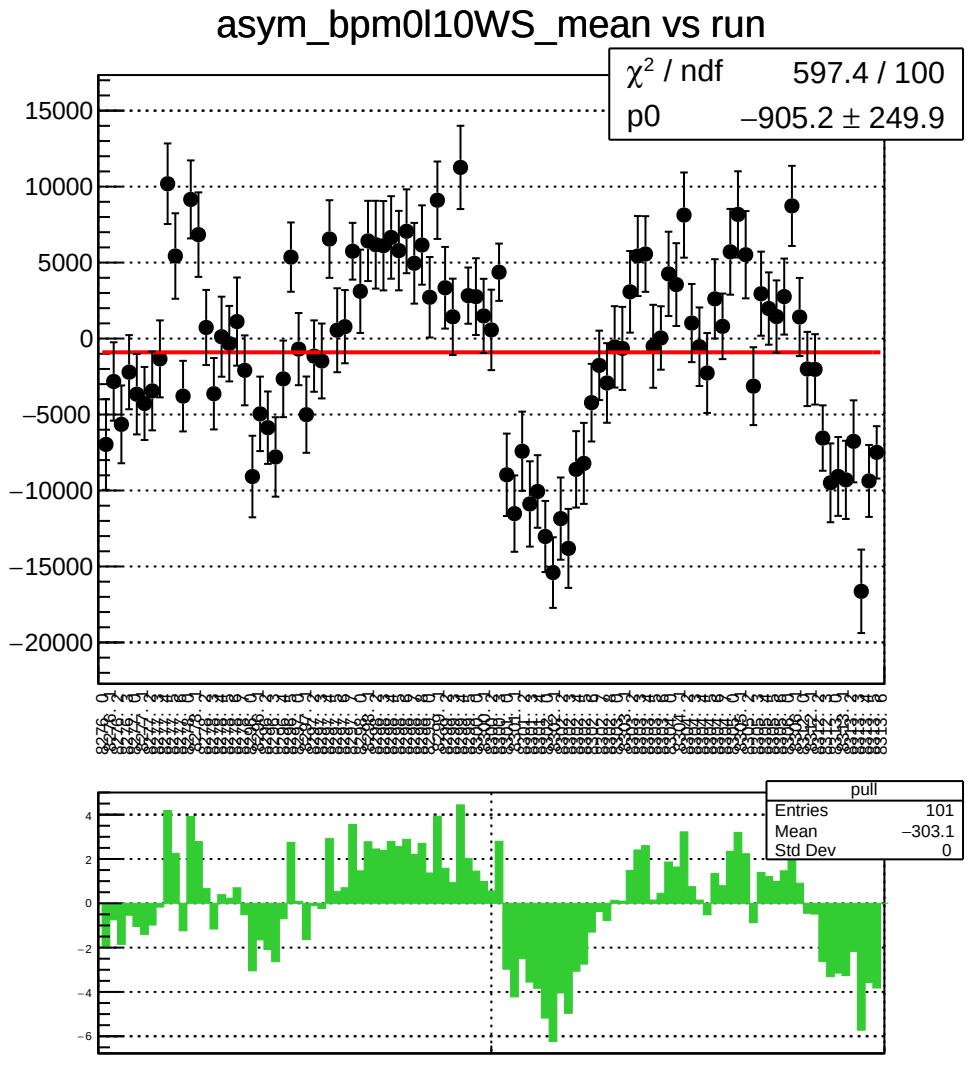

pull1D
Entries 101
Mean 0.03124
Std Dev 2.433
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

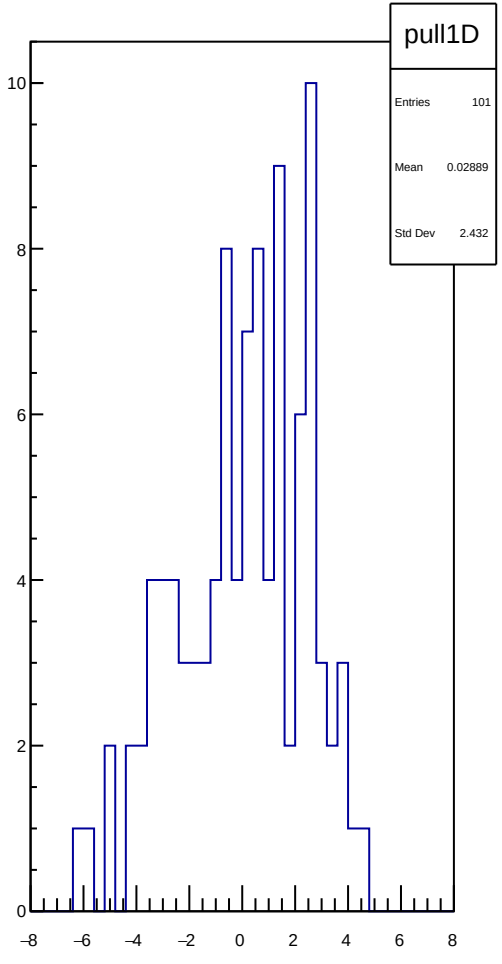

asym_bpm0l08WS_rms vs run
χ² / ndf 6204 / 100
p0 245.5 ± 0.1771
290
280
270
260
250
240
230
220
210

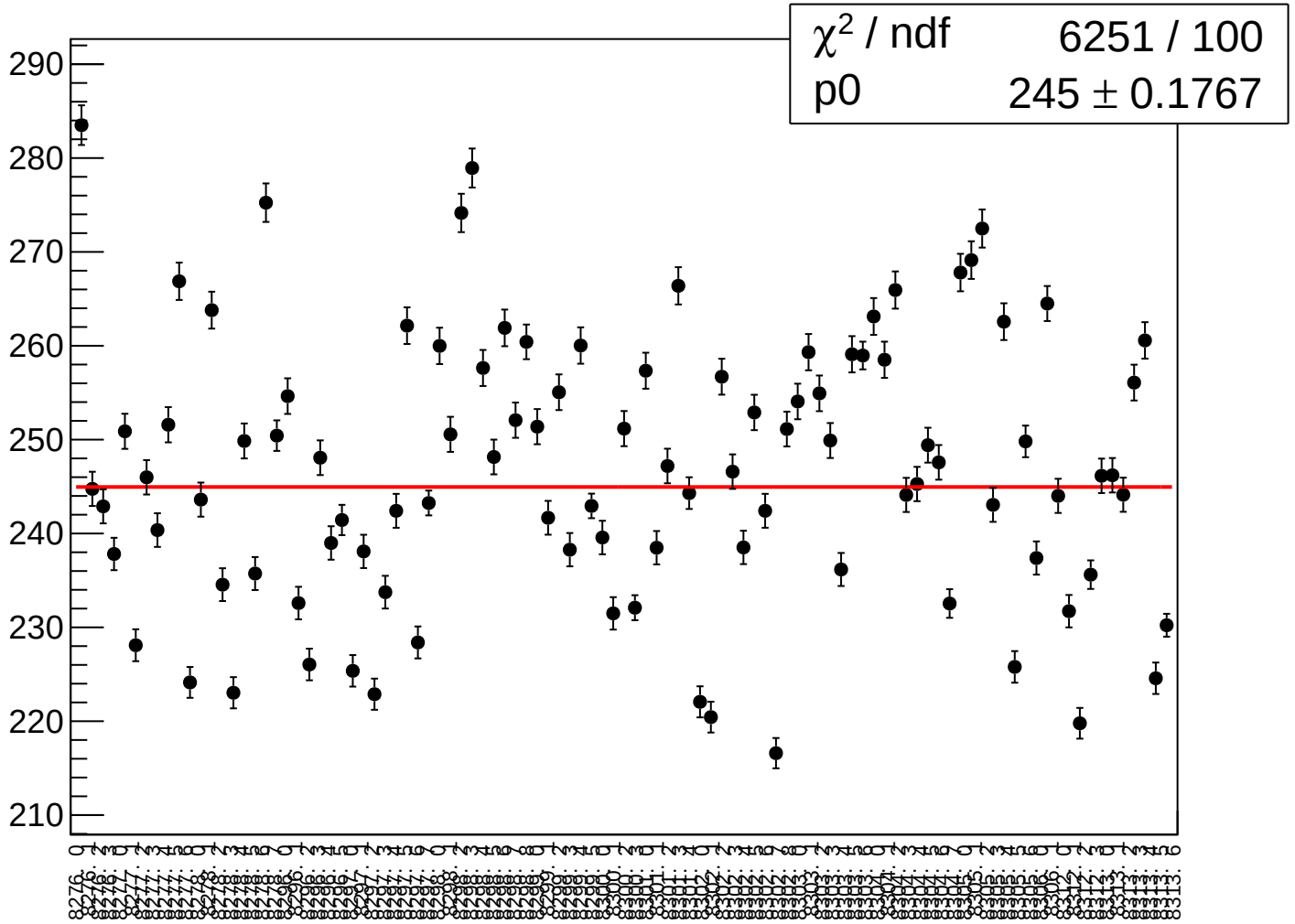

asym_bpm0l09WS_mean vs run
χ² / ndf 564.8 / 100
p0 −971.8 ± 254.1
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 101
Mean −506.5
Std Dev 0
4
2
0
−2
−4
−6

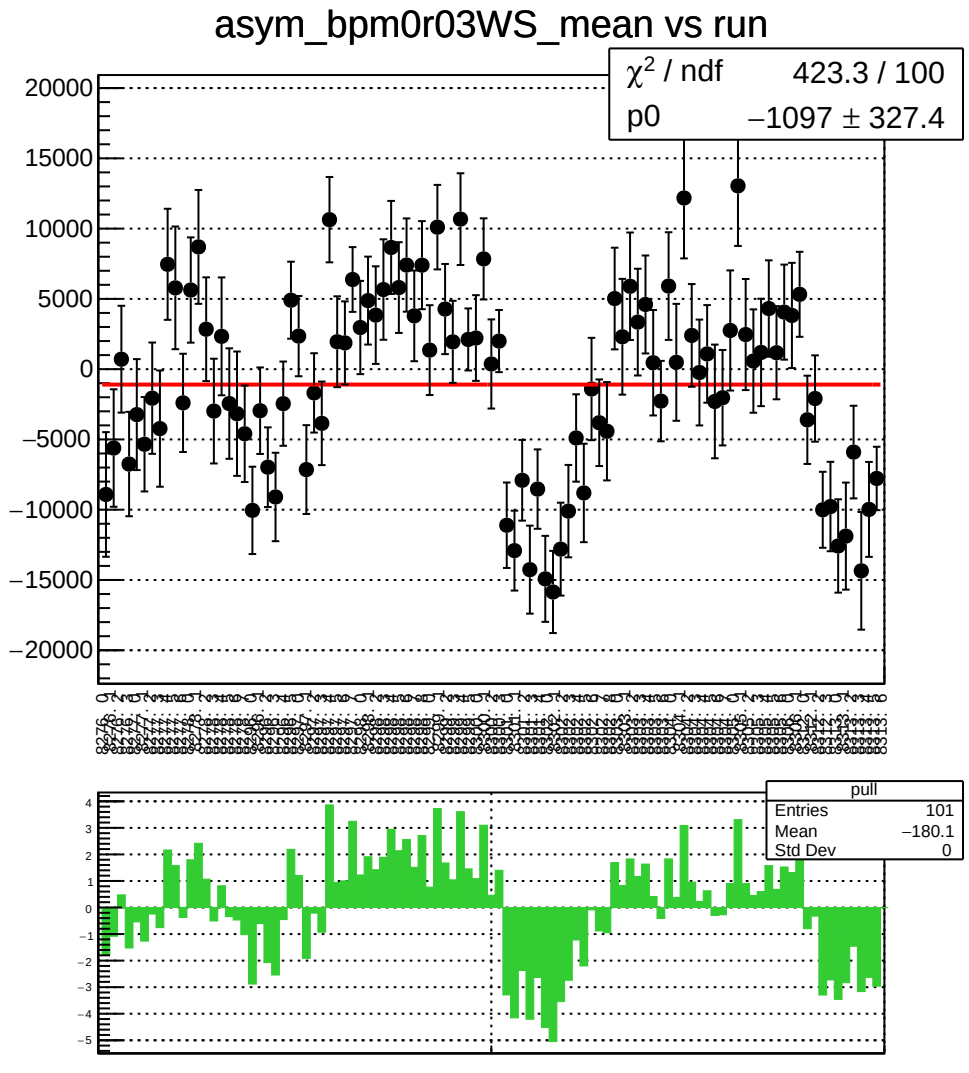

pull1D
Entries 101
Mean 0.02116
Std Dev 2.365
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

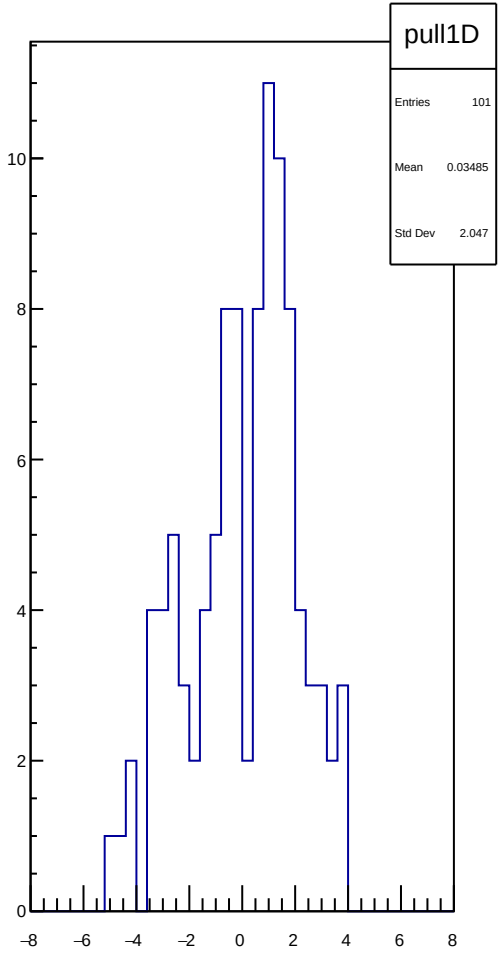

asym_bpm0l09WS_rms vs run
χ² / ndf 6553 / 100
p0 249.1 ± 0.1797
290
280
270
260
250
240
230
220

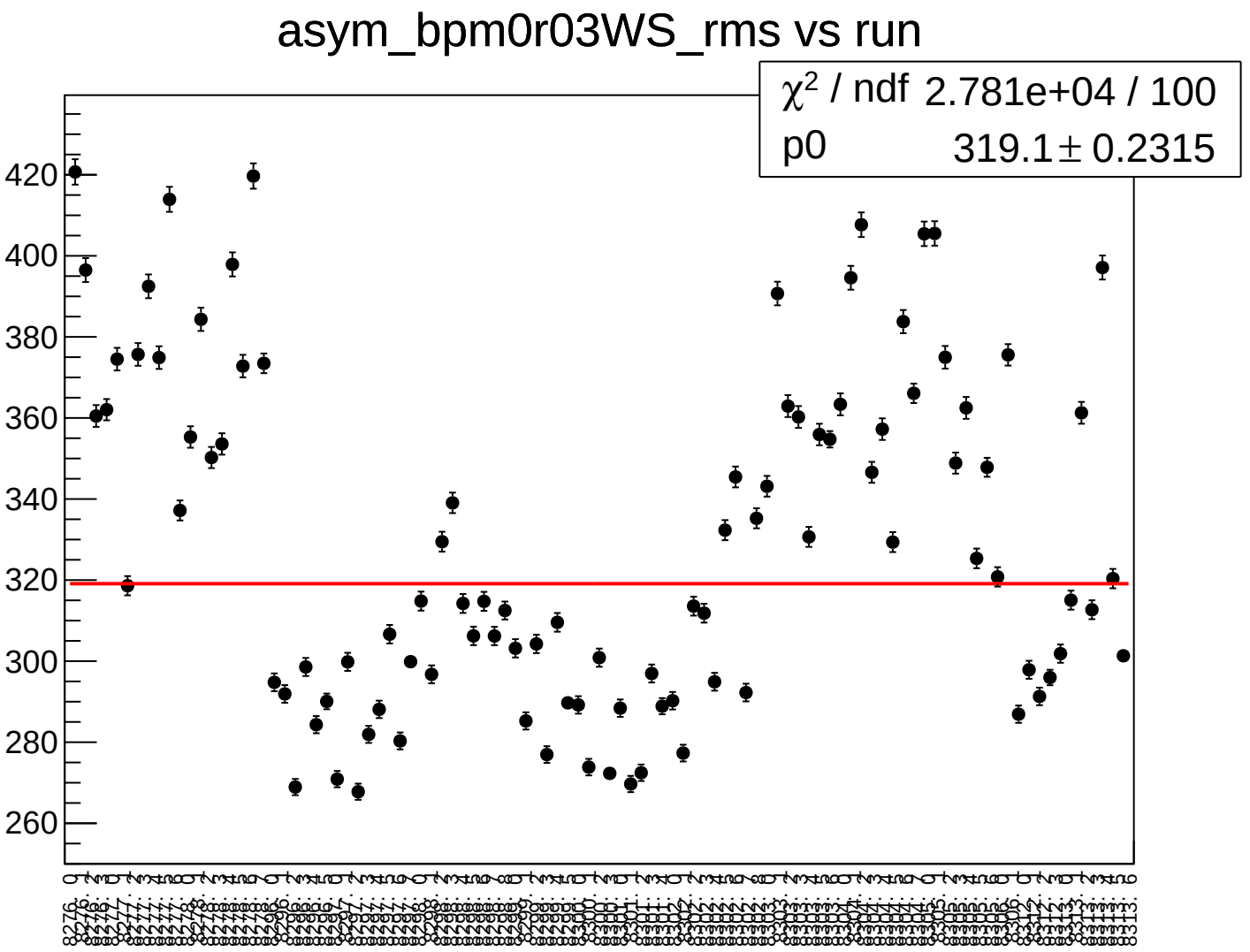

asym_bpm0l10WS_mean vs run
χ² / ndf 597.4 / 100
p0 −905.2 ± 249.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 101
Mean −303.1
Std Dev 0
4
2
0
−2
−4
−6

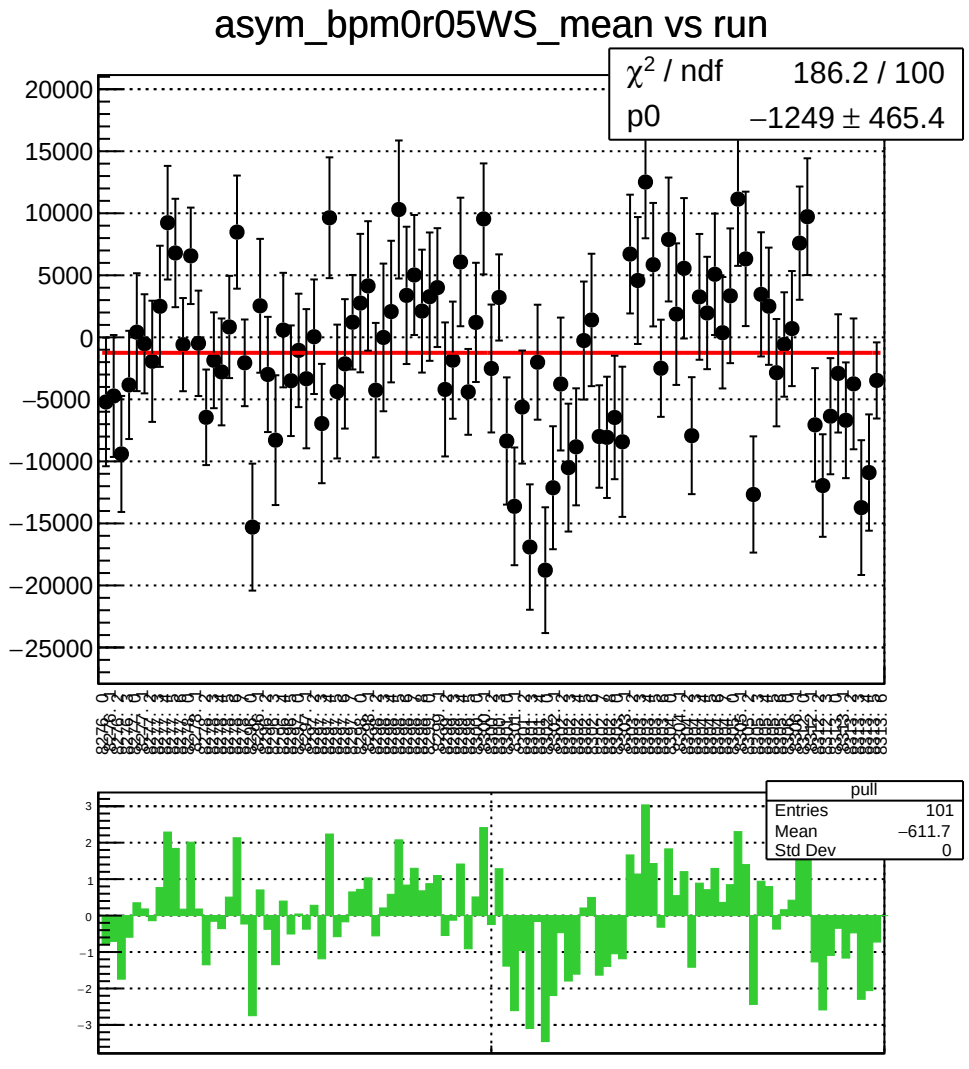

pull1D
Entries 101
Mean 0.02889
Std Dev 2.432
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

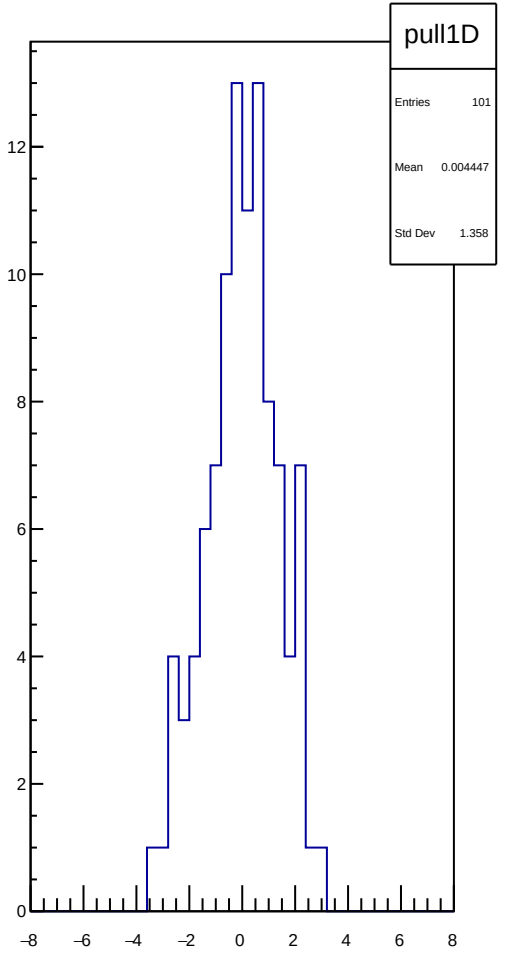

asym_bpm0l10WS_rms vs run
χ^2 / ndf 6251 / 100
p0 245 ± 0.1767
290
280
270
260
250
240
230
220
210

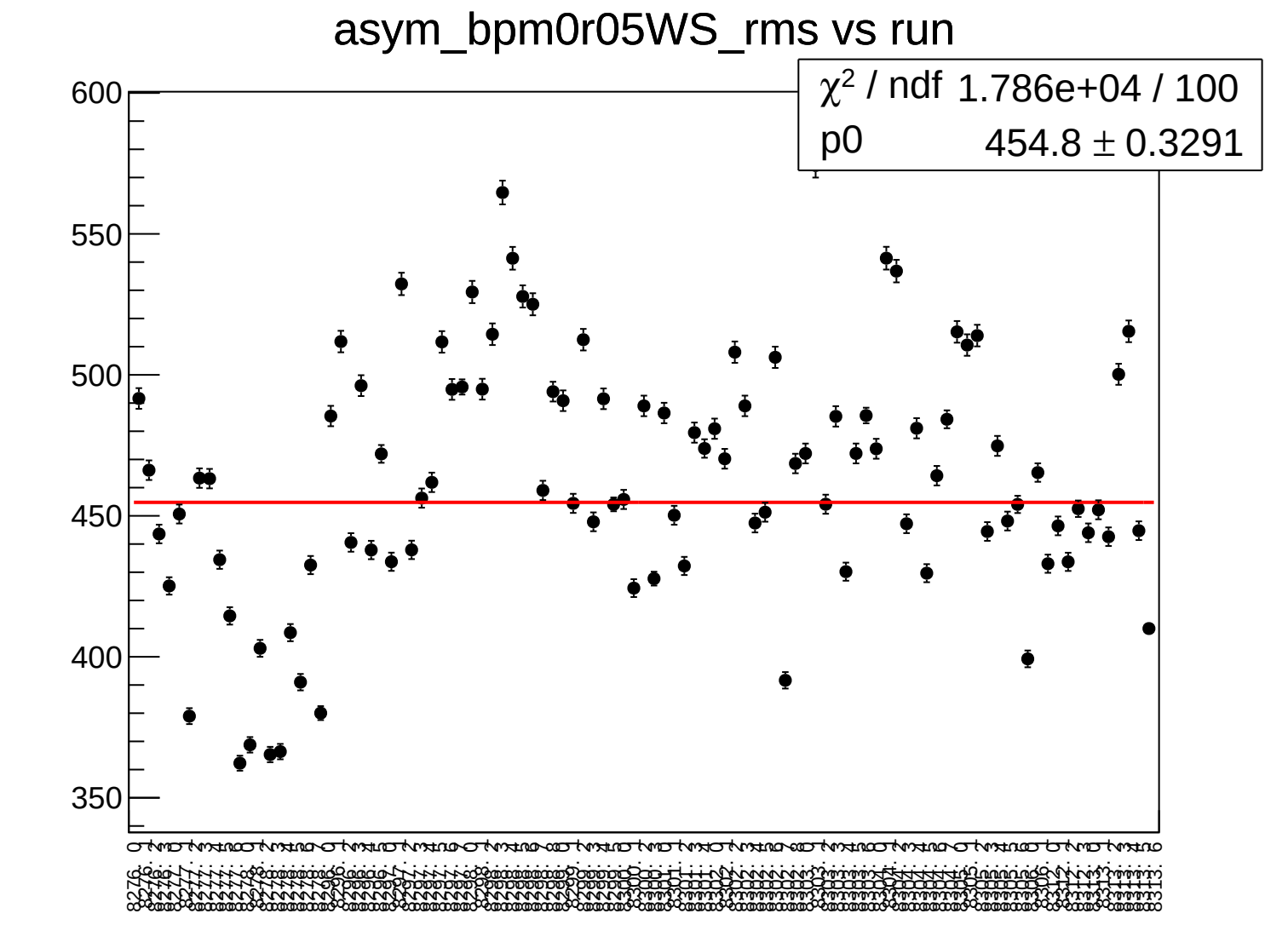

asym_bpm0r03WS_mean vs run
χ² / ndf 423.3 / 100
p0 −1097 ± 327.4
pull
Entries 101
Mean −180.1
Std Dev 0

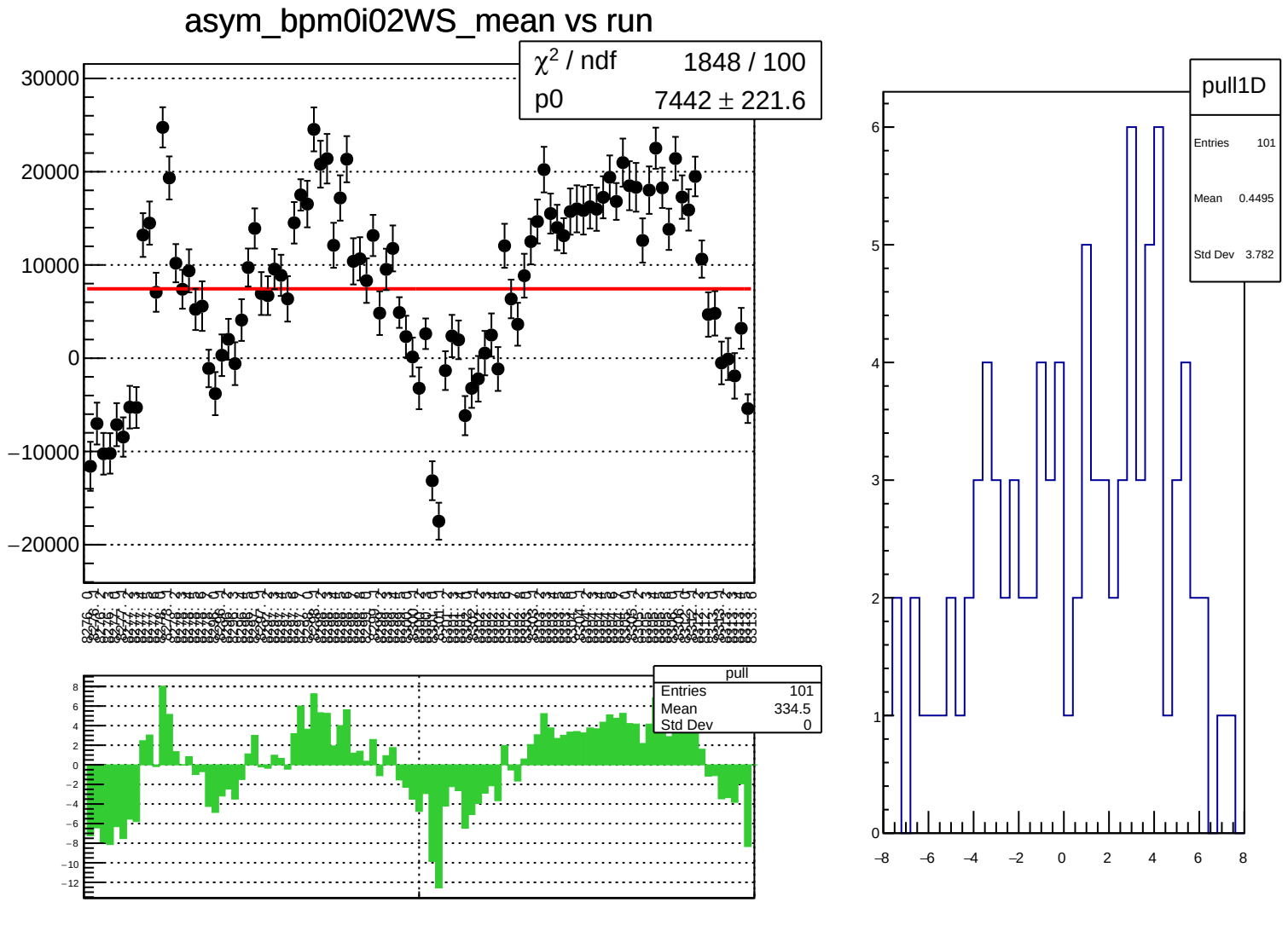

pull1D
Entries 101
Mean 0.03485
Std Dev 2.047

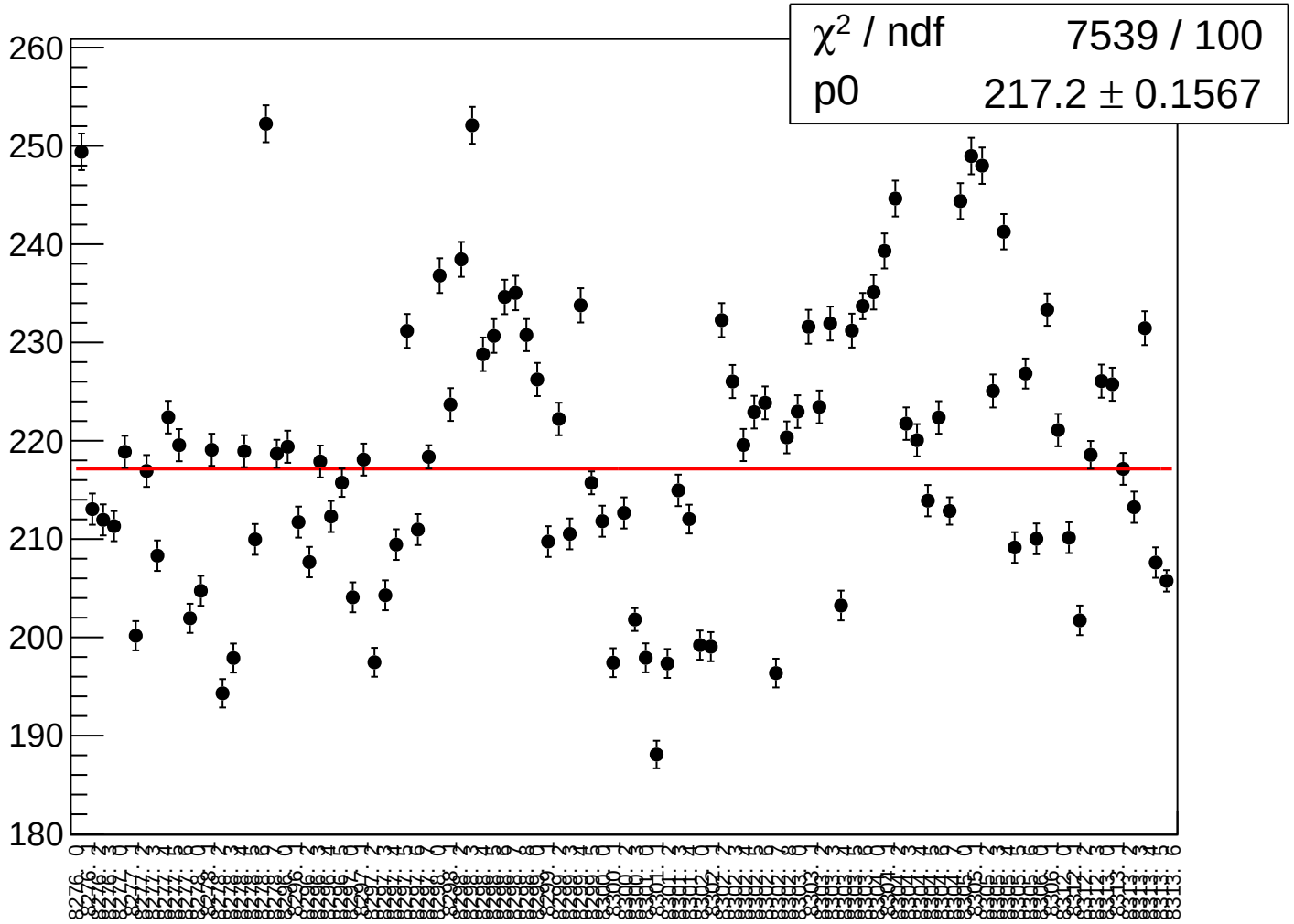

asym_bpm0r03WS_rms vs run
χ² / ndf 2.781e+04 / 100
p0 319.1 ± 0.2315
420
400
380
360
340
320
300
280
260

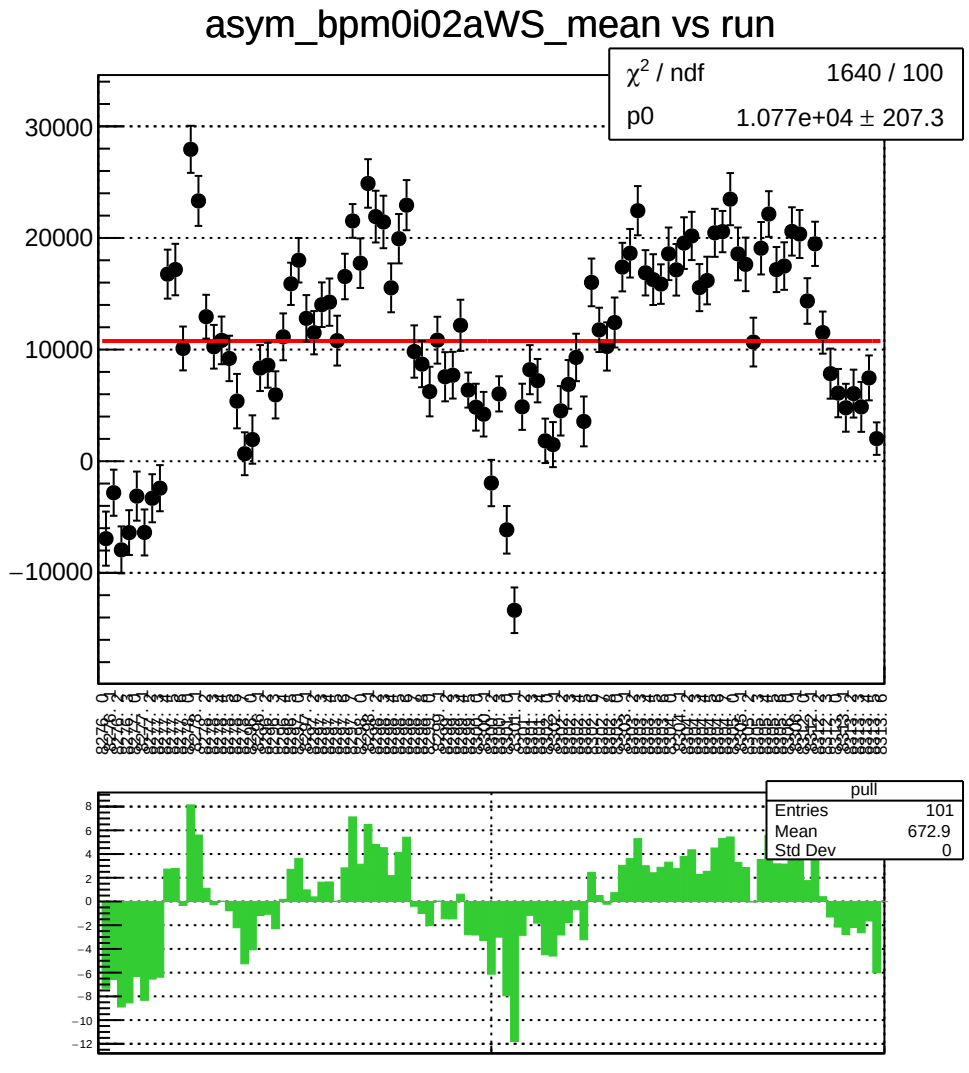

asym_bpm0r05WS_mean vs run
χ² / ndf 186.2 / 100
p0 −1249 ± 465.4
pull
Entries 101
Mean −611.7
Std Dev 0

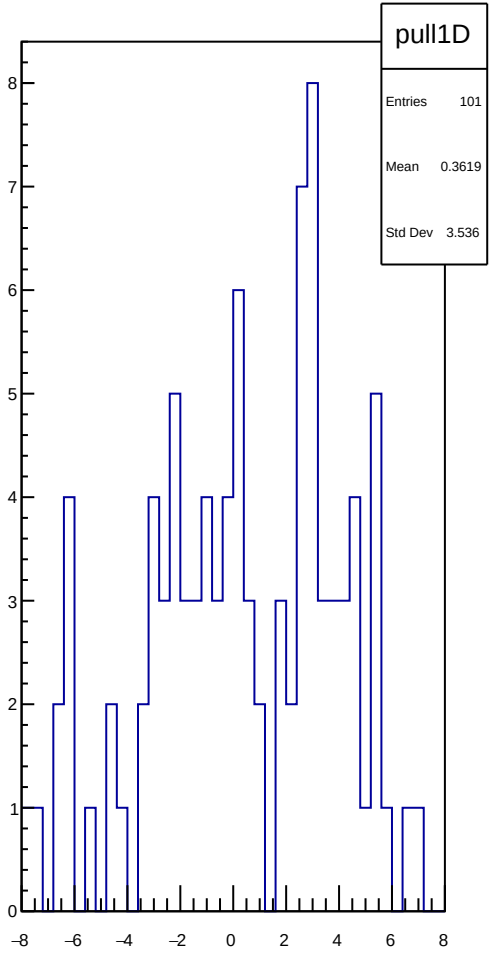

pull1D
Entries 101
Mean 0.004447
Std Dev 1.358

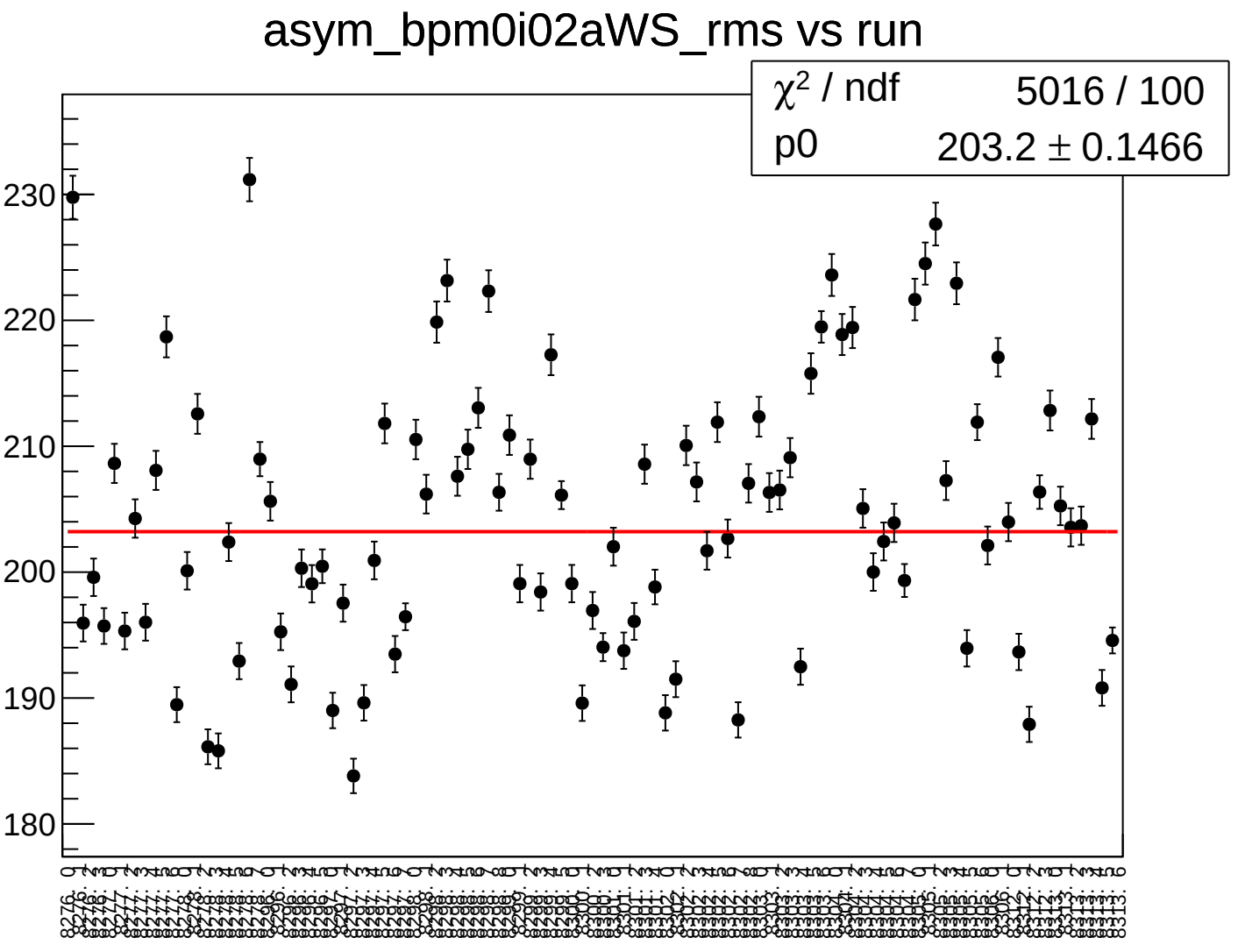

asym_bpm0r05WS_rms vs run
χ^2 / ndf 1.786e+04 / 100
p0 454.8 ± 0.3291
600
550
500
450
400
350

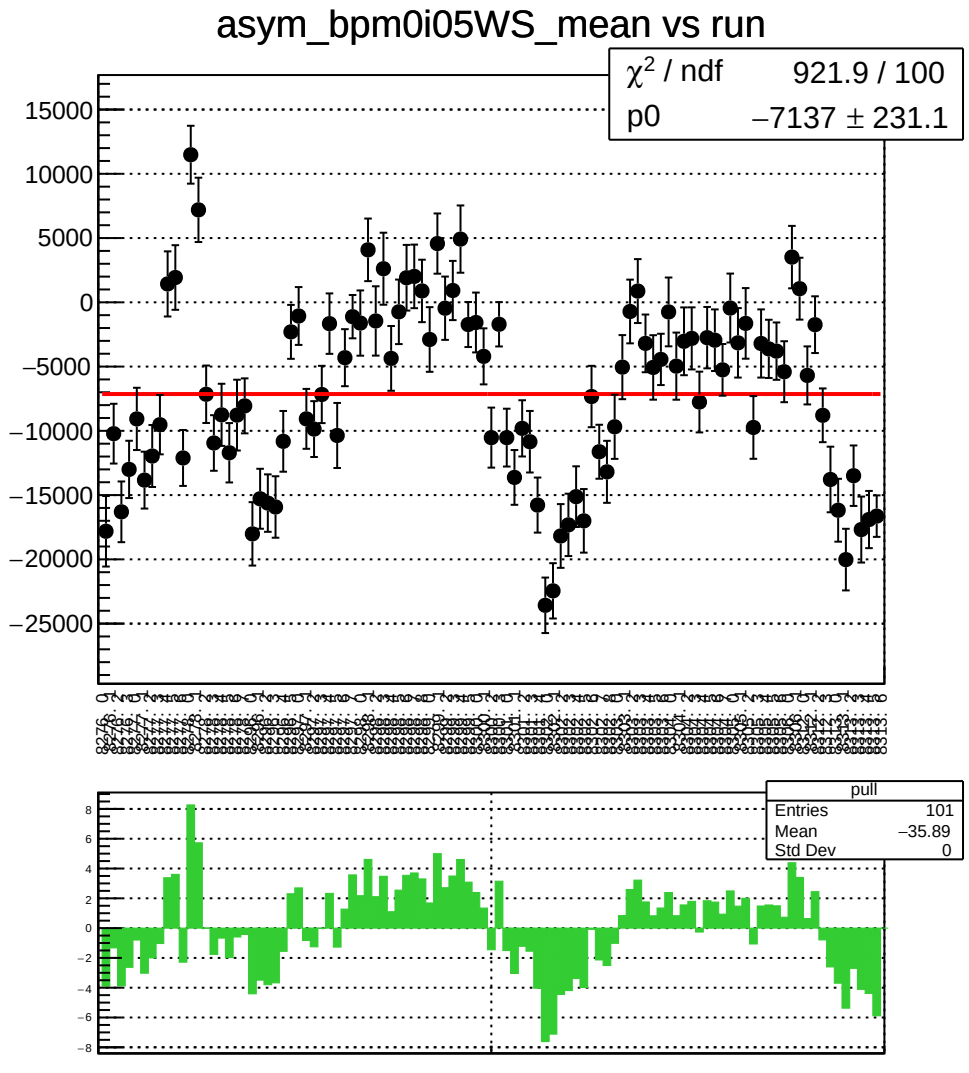

asym_bpm0i02WS_mean vs run
χ² / ndf 1848 / 100
p0 7442 ± 221.6
30000
20000
10000
0
−10000
−20000
pull
Entries 101
Mean 334.5
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8
−10
−12
pull1D
Entries 101
Mean 0.4495
Std Dev 3.782
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

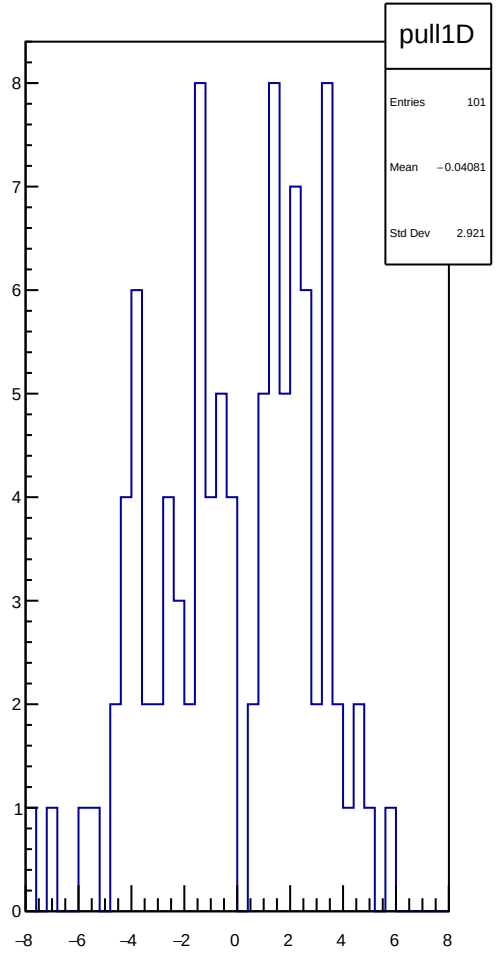

asym_bpm0i02WS_rms vs run
χ² / ndf 7539 / 100
p0 217.2 ± 0.1567
260
250
240
230
220
210
200
190
180

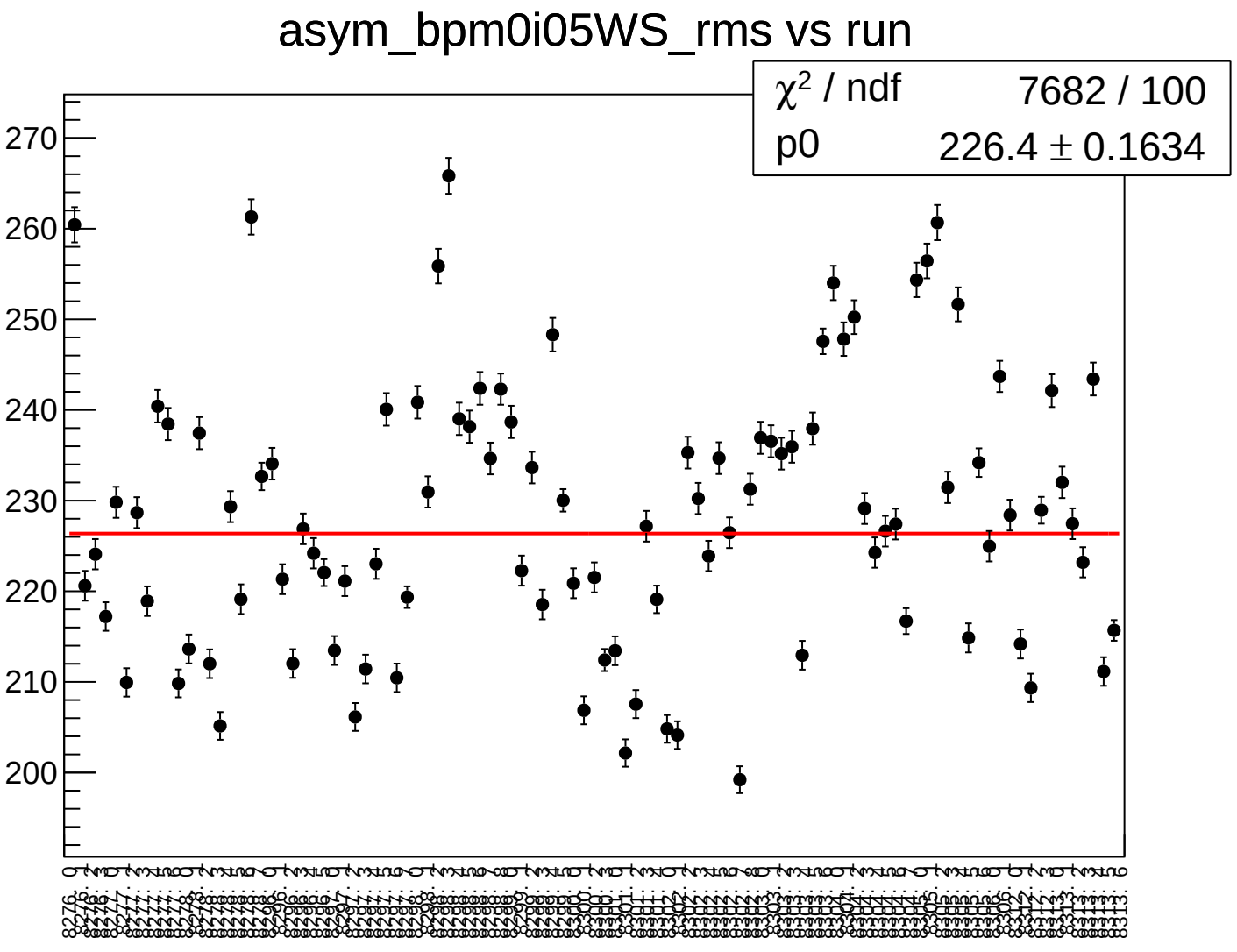

asym_bpm0i02aWS_mean vs run
χ² / ndf 1640 / 100
p0 1.077e+04 ± 207.3
30000
20000
10000
0
−10000
pull
Entries 101
Mean 672.9
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8
−10
−12

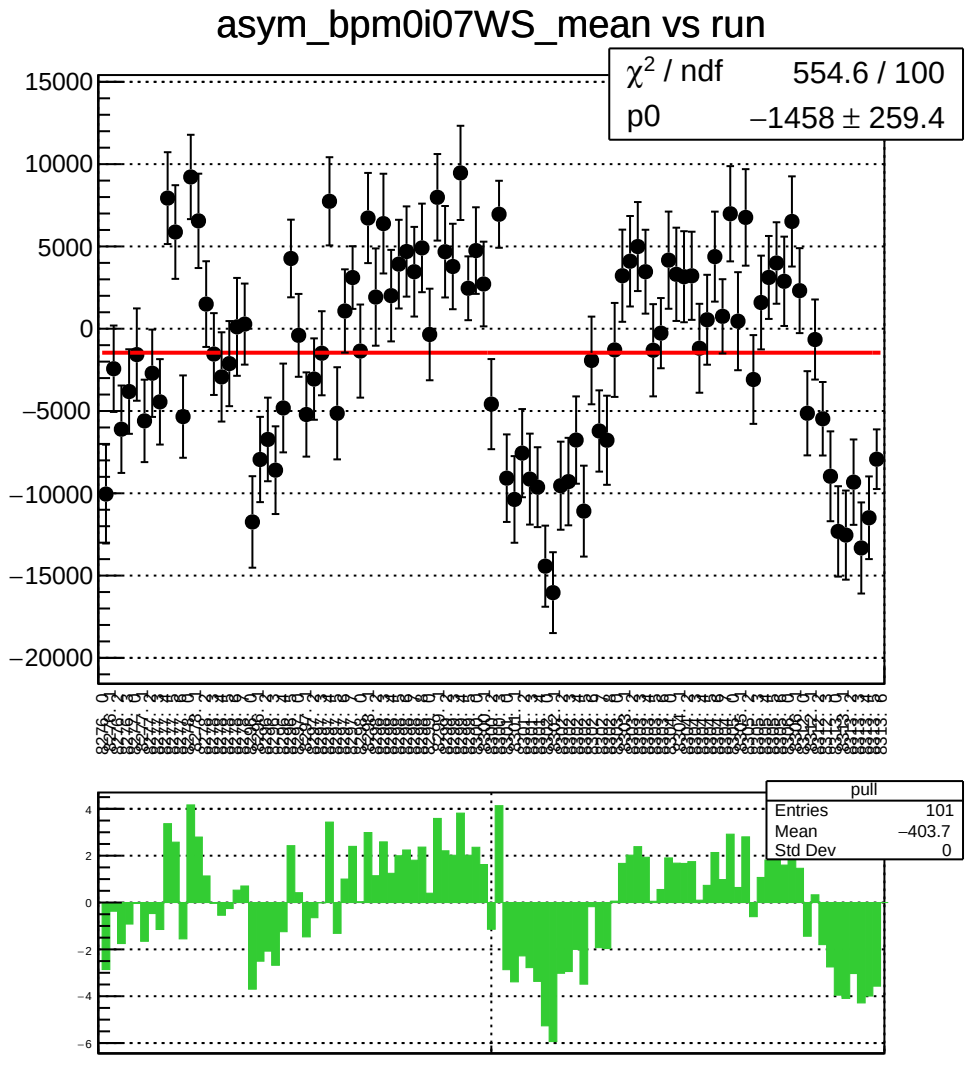

pull1D
Entries 101
Mean 0.3619
Std Dev 3.536
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

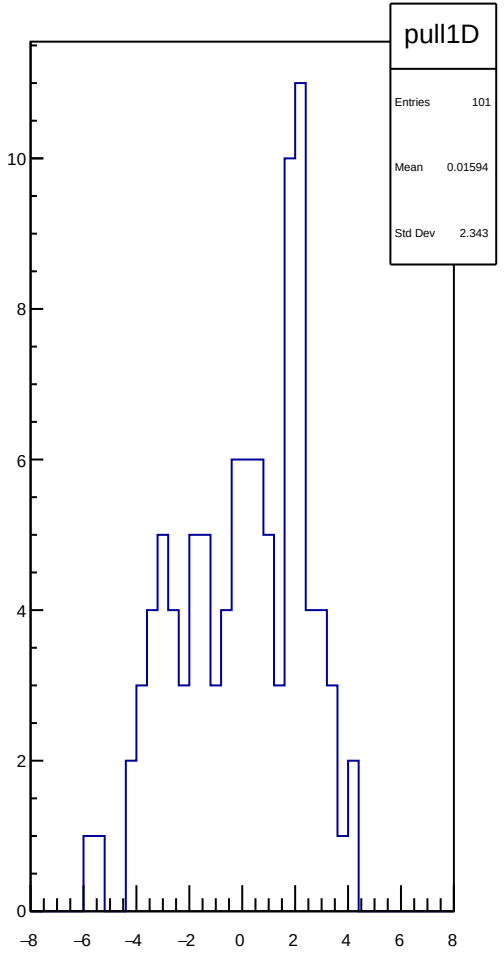

asym_bpm0i02aWS_rms vs run
χ^2 / ndf 5016 / 100
p0 203.2 ± 0.1466
230
220
210
200
190
180

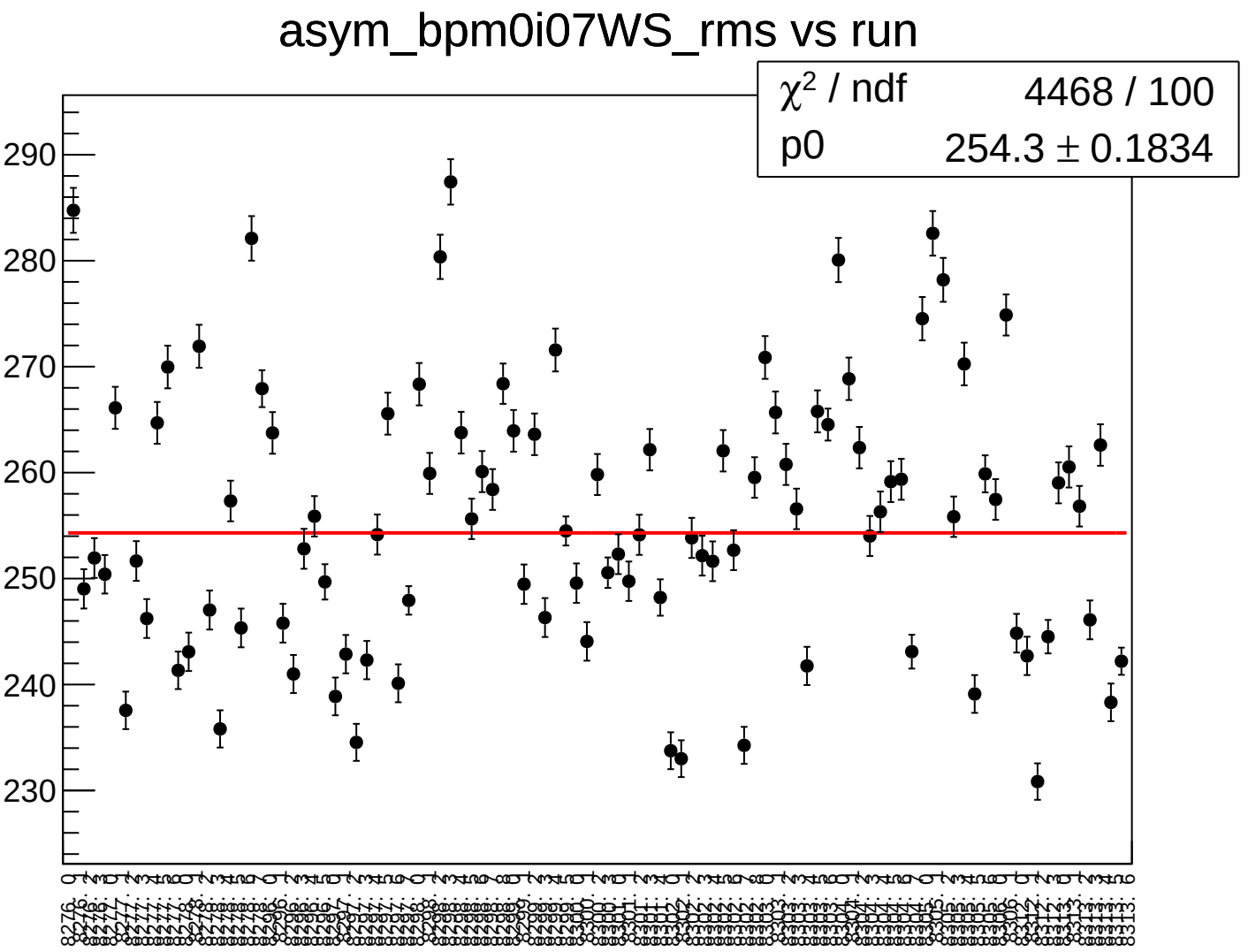

asym_bpm0i05WS_mean vs run
χ² / ndf 921.9 / 100
p0 −7137 ± 231.1
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 101
Mean −35.89
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8

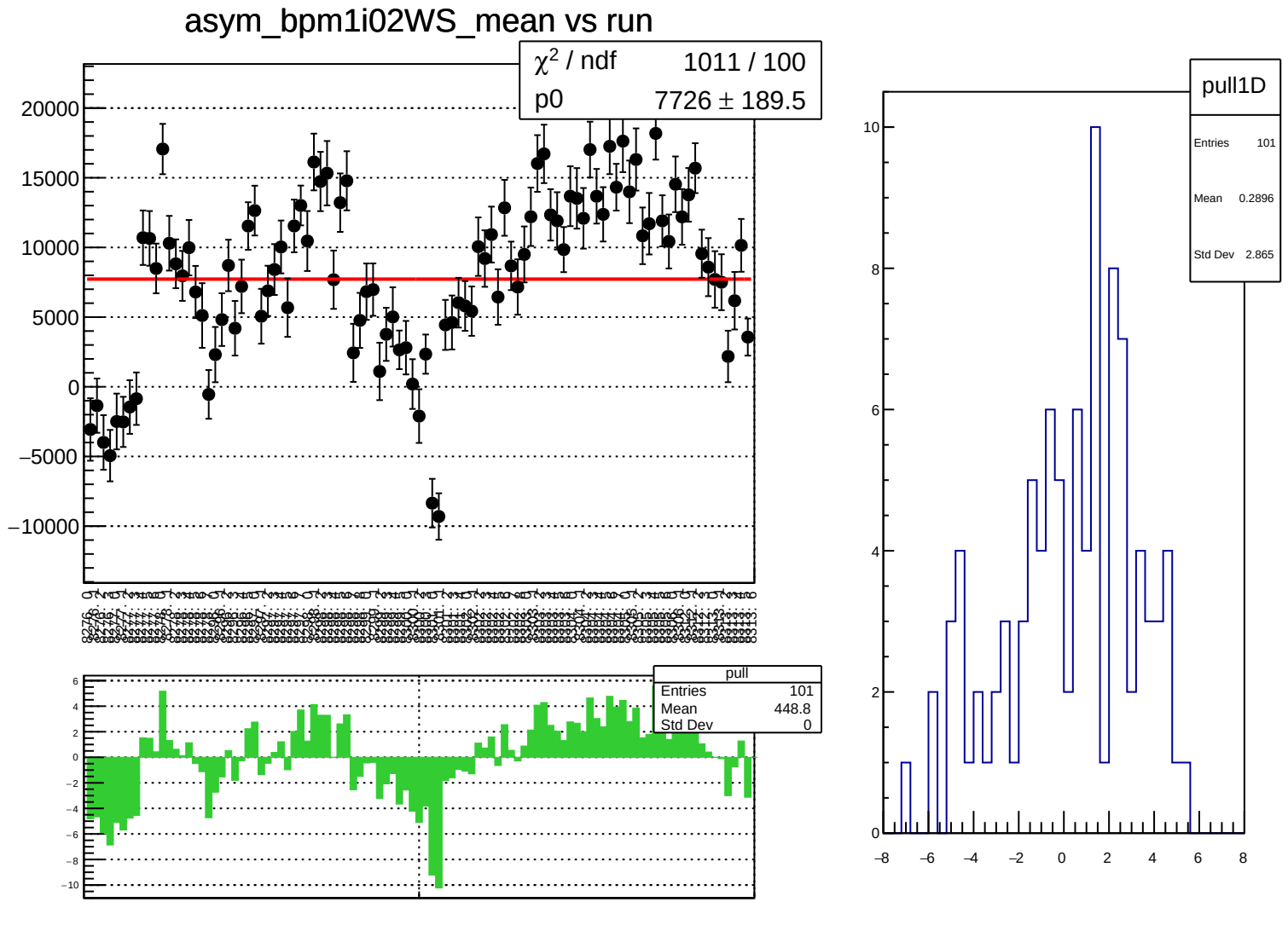

pull1D
Entries 101
Mean −0.04081
Std Dev 2.921
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

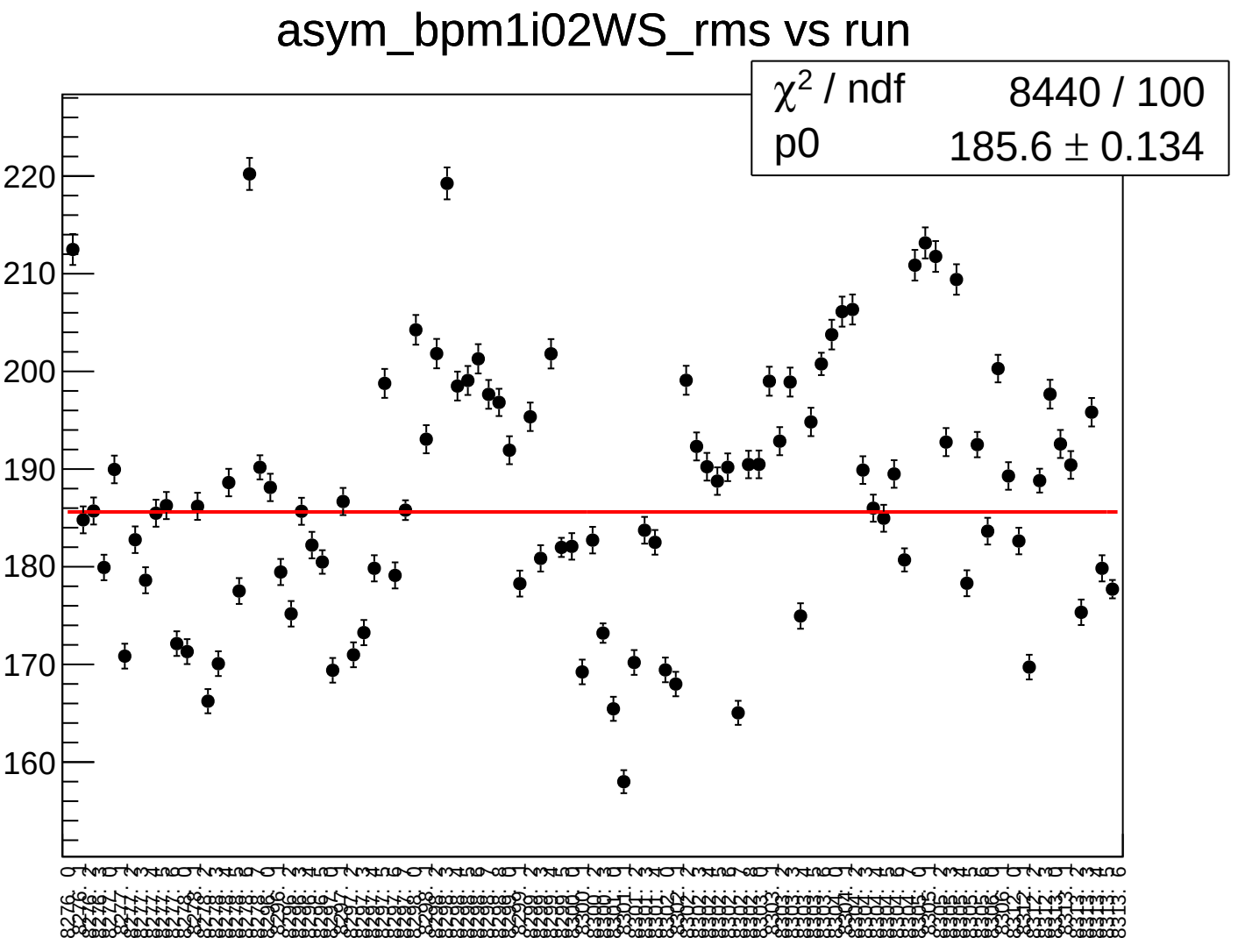

asym_bpm0i05WS_rms vs run
χ² / ndf 7682 / 100
p0 226.4 ± 0.1634
270
260
250
240
230
220
210
200

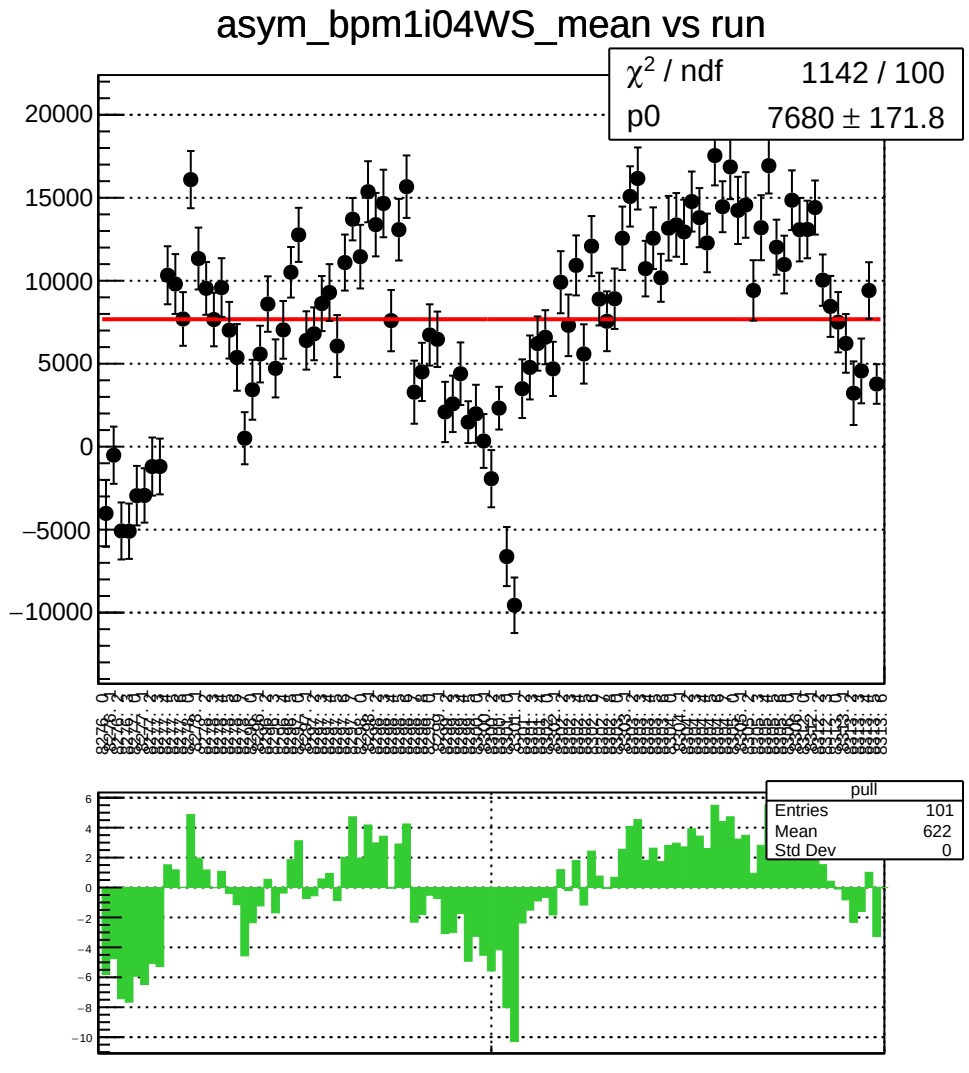

asym_bpm0i07WS_mean vs run
χ² / ndf 554.6 / 100
p0 −1458 ± 259.4
pull
Entries 101
Mean −403.7
Std Dev 0

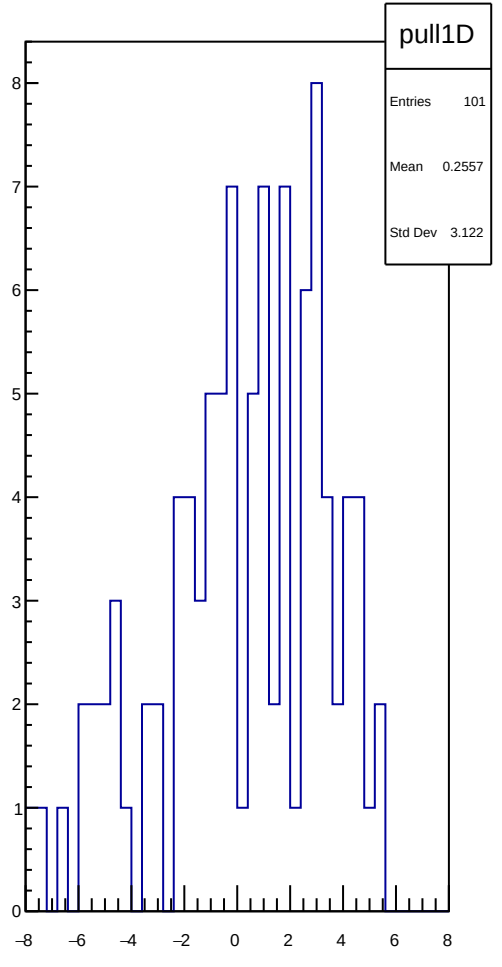

pull1D
Entries 101
Mean 0.01594
Std Dev 2.343

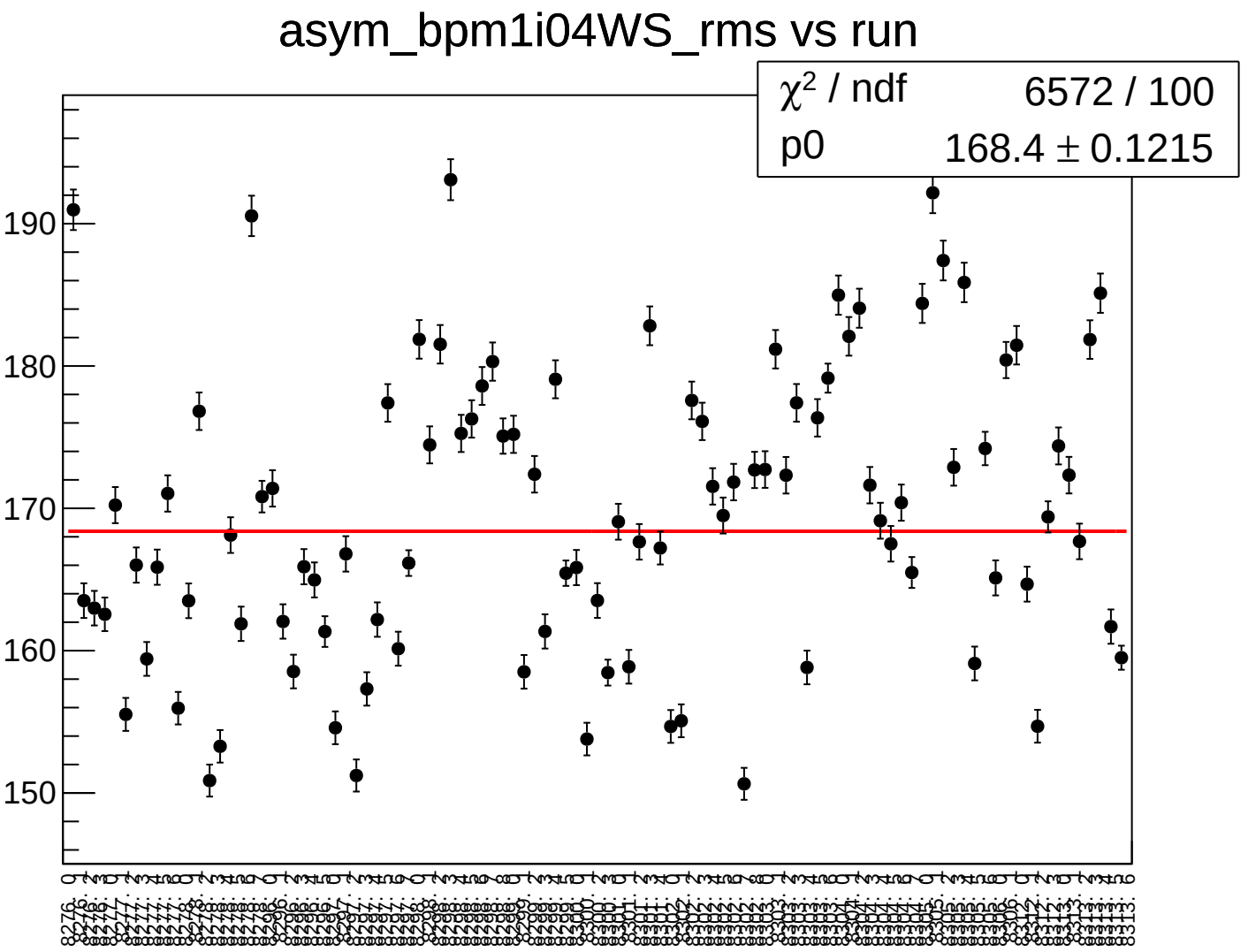

asym_bpm0i07WS_rms vs run
χ^2 / ndf 4468 / 100
p0 254.3 ± 0.1834
290
280
270
260
250
240
230

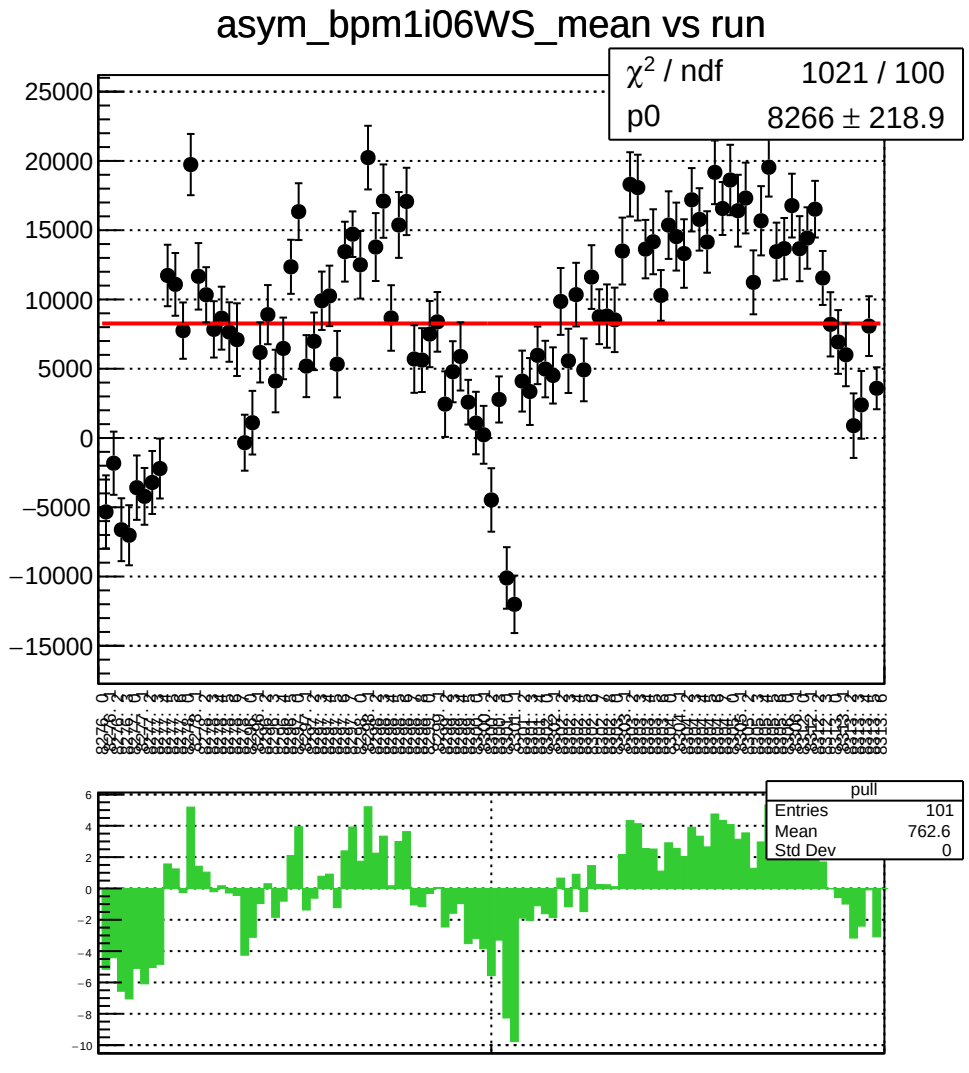

asym_bpm1i02WS_mean vs run
χ² / ndf 1011 / 100
p0 7726 ± 189.5
pull
Entries 101
Mean 448.8
Std Dev 0
pull1D
Entries 101
Mean 0.2896
Std Dev 2.865

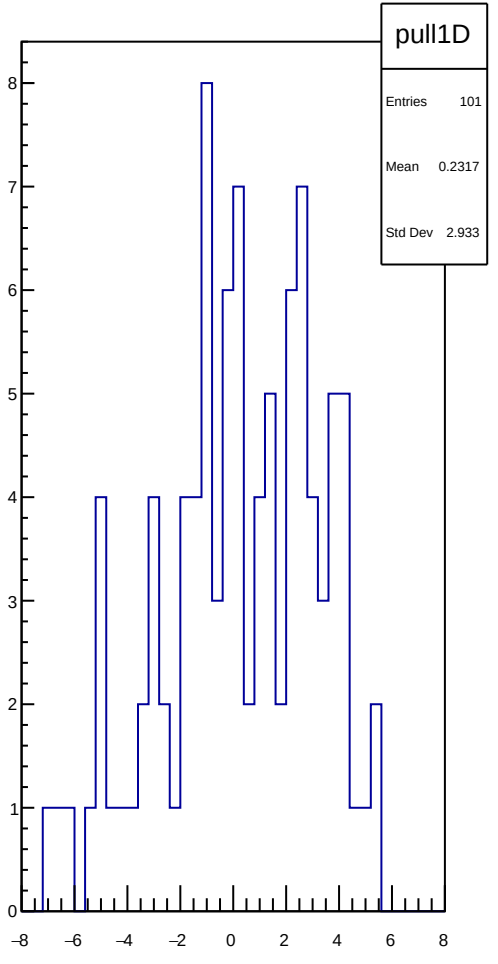

asym_bpm1i02WS_rms vs run
χ² / ndf 8440 / 100
p0 185.6 ± 0.134
220
210
200
190
180
170
160

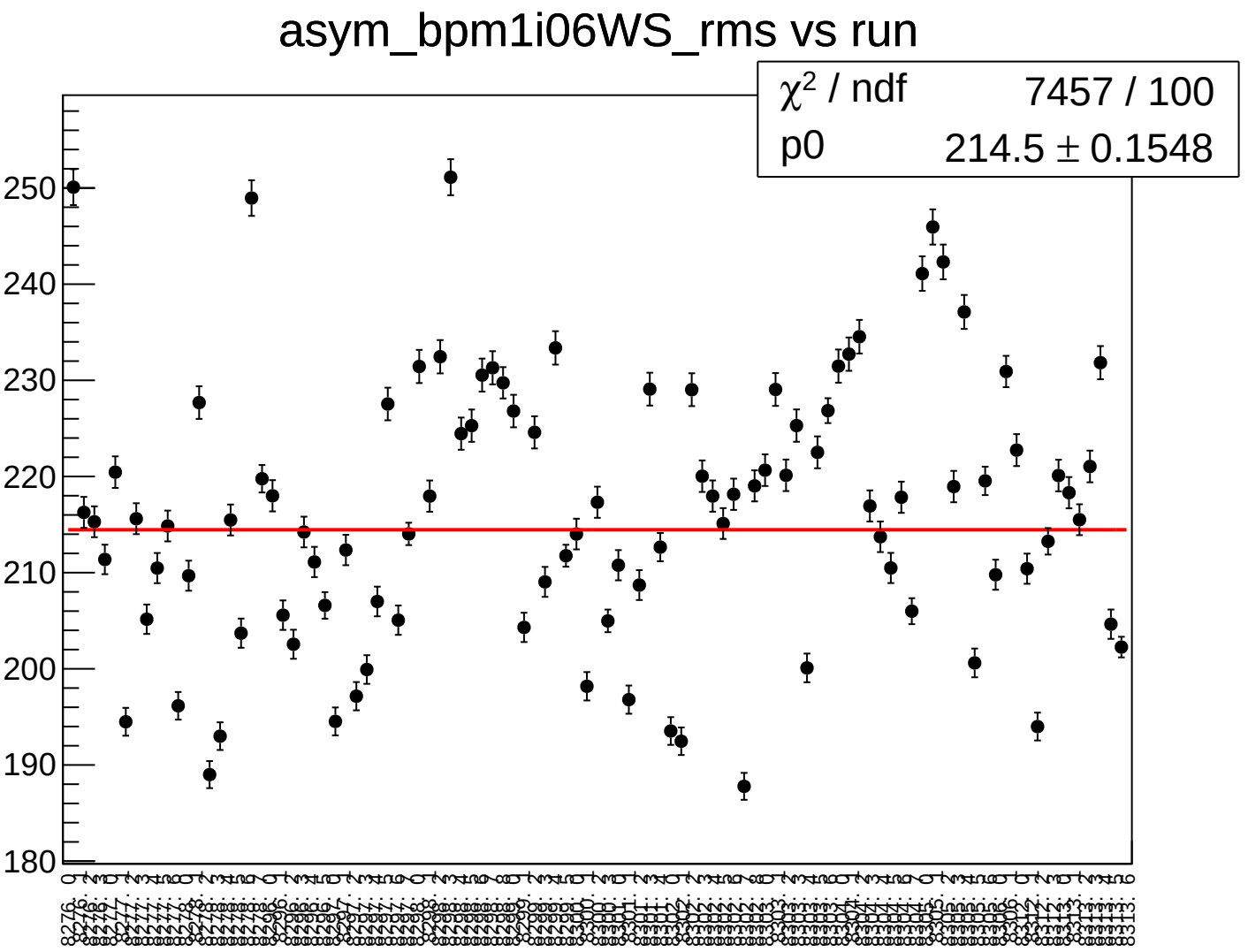

asym_bpm1i04WS_mean vs run
χ² / ndf 1142 / 100
p0 7680 ± 171.8
20000
15000
10000
5000
0
−5000
−10000
pull
Entries 101
Mean 622
Std Dev 0
6
4
2
0
−2
−4
−6
−8
−10

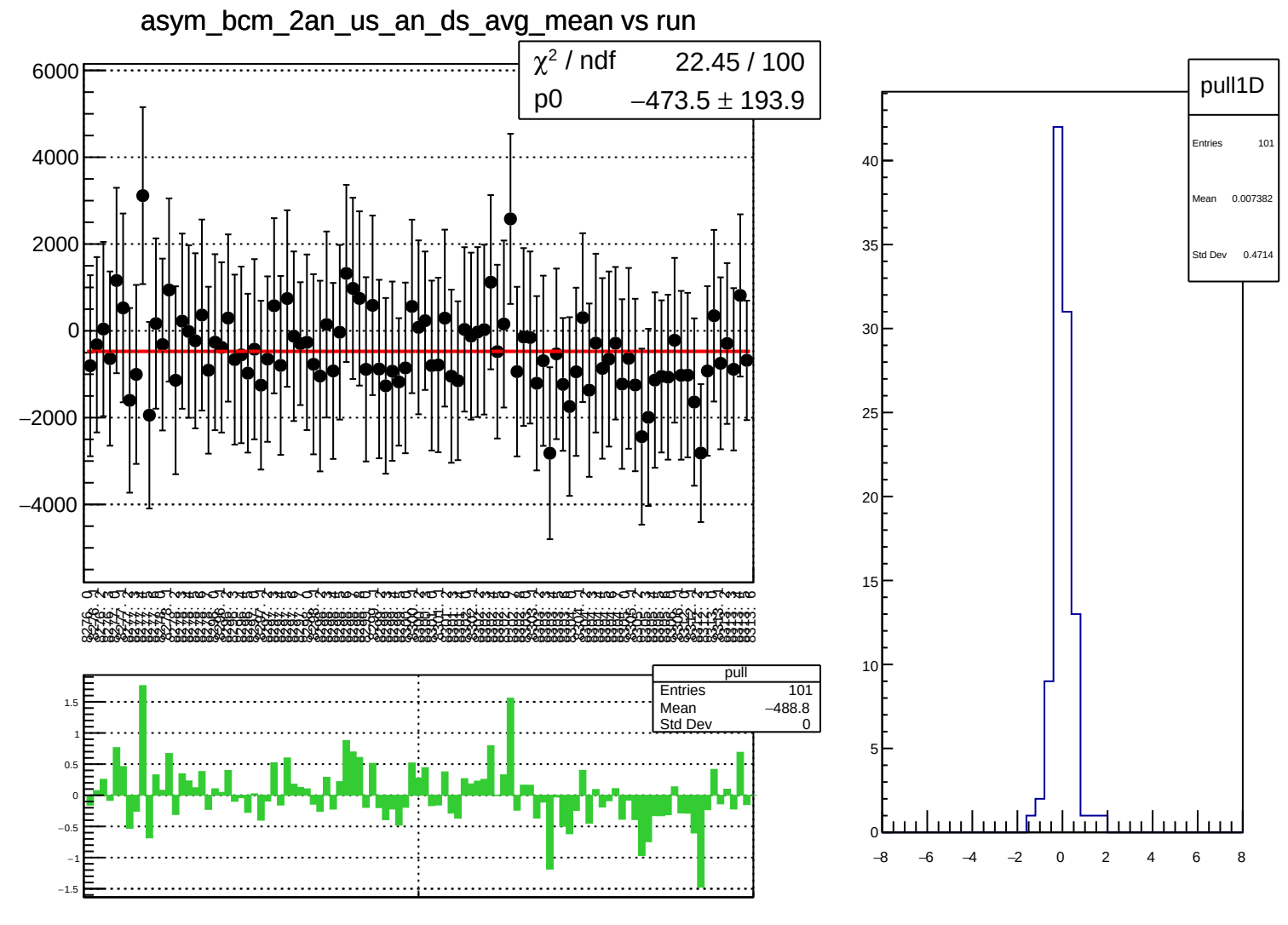

pull1D
Entries 101
Mean 0.2557
Std Dev 3.122
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

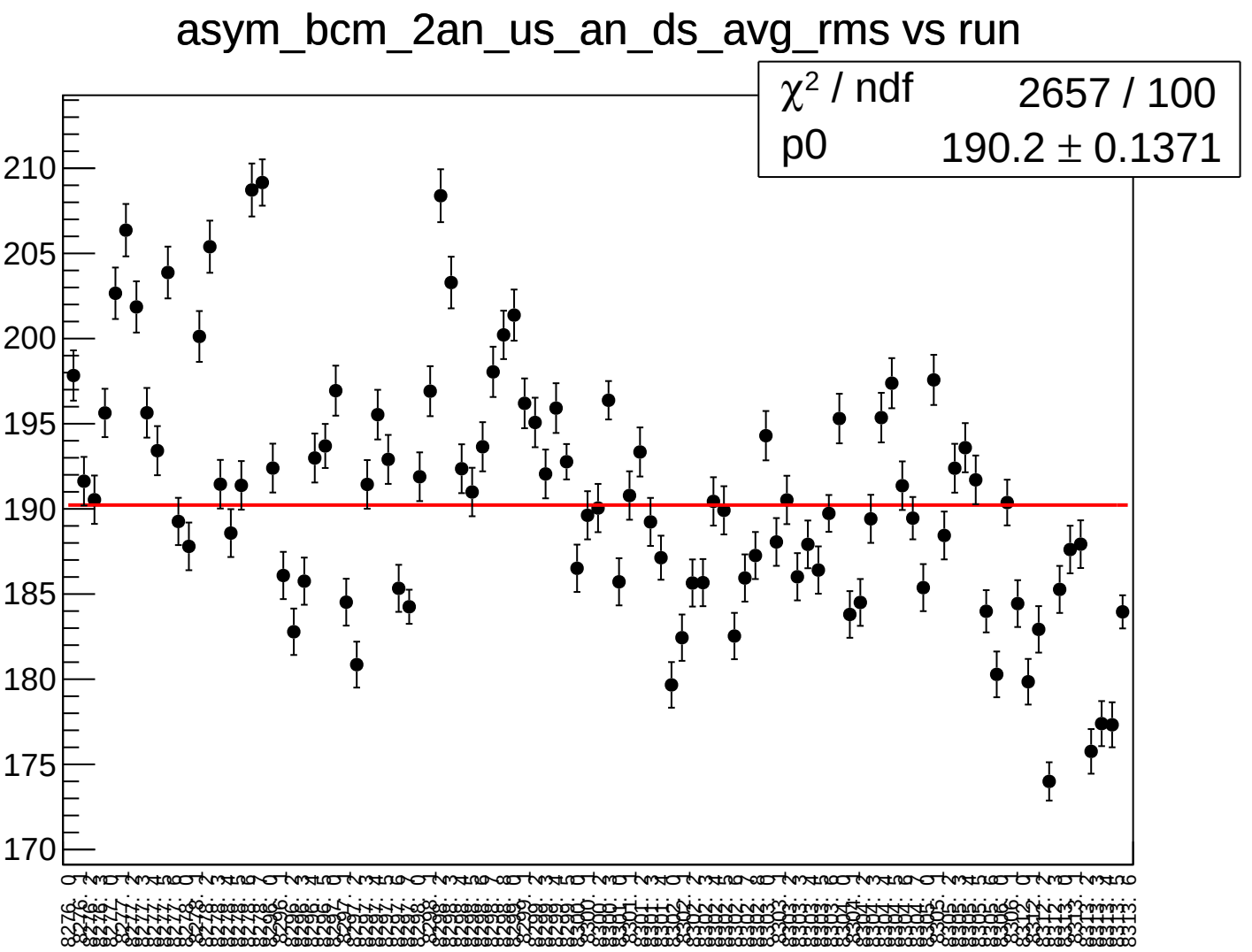

asym_bpm1i04WS_rms vs run
χ^2 / ndf 6572 / 100
p0 168.4 ± 0.1215
190
180
170
160
150

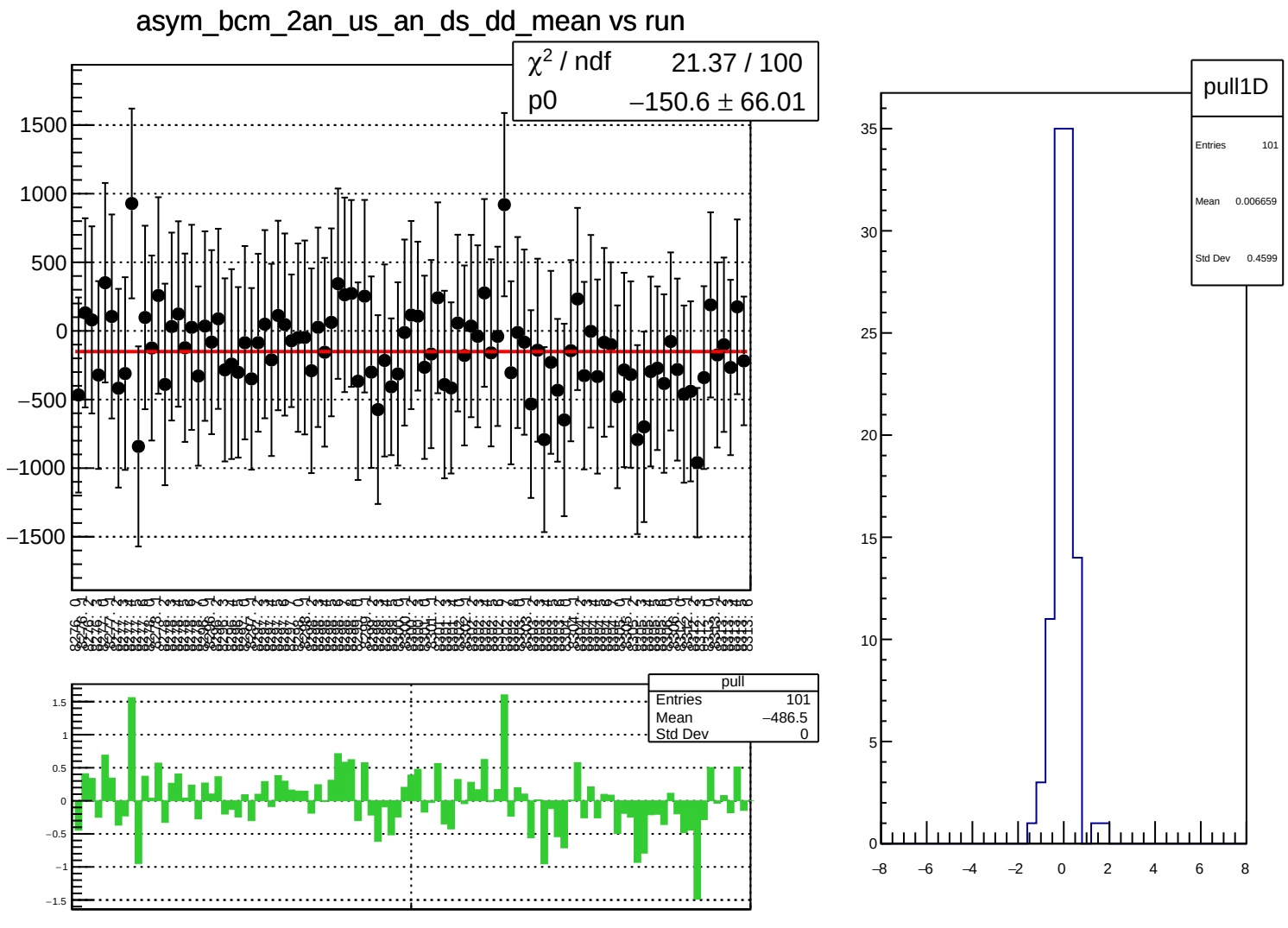

asym_bpm1i06WS_mean vs run
χ² / ndf 1021 / 100
p0 8266 ± 218.9
pull
Entries 101
Mean 762.6
Std Dev 0

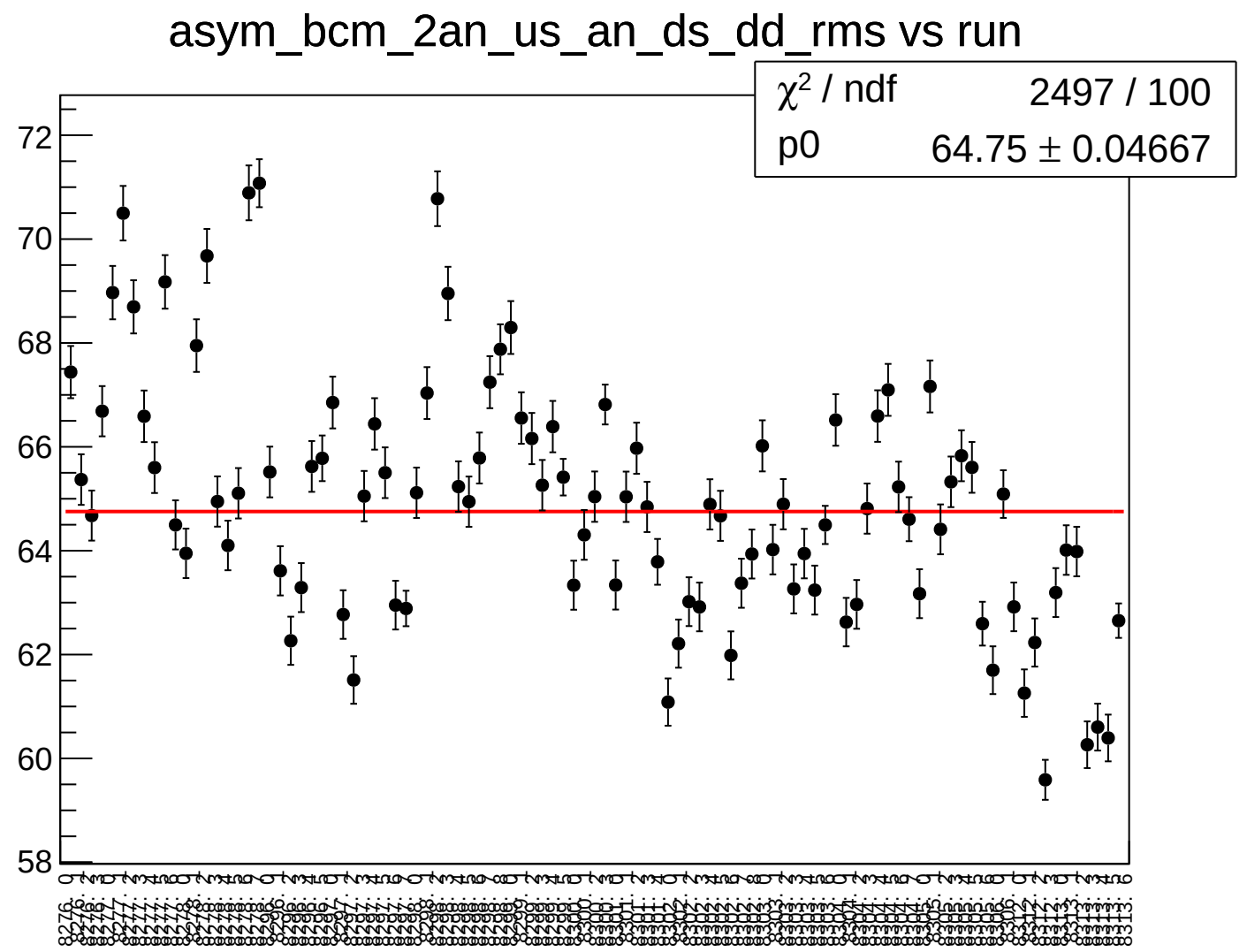

pull1D
Entries 101
Mean 0.2317
Std Dev 2.933

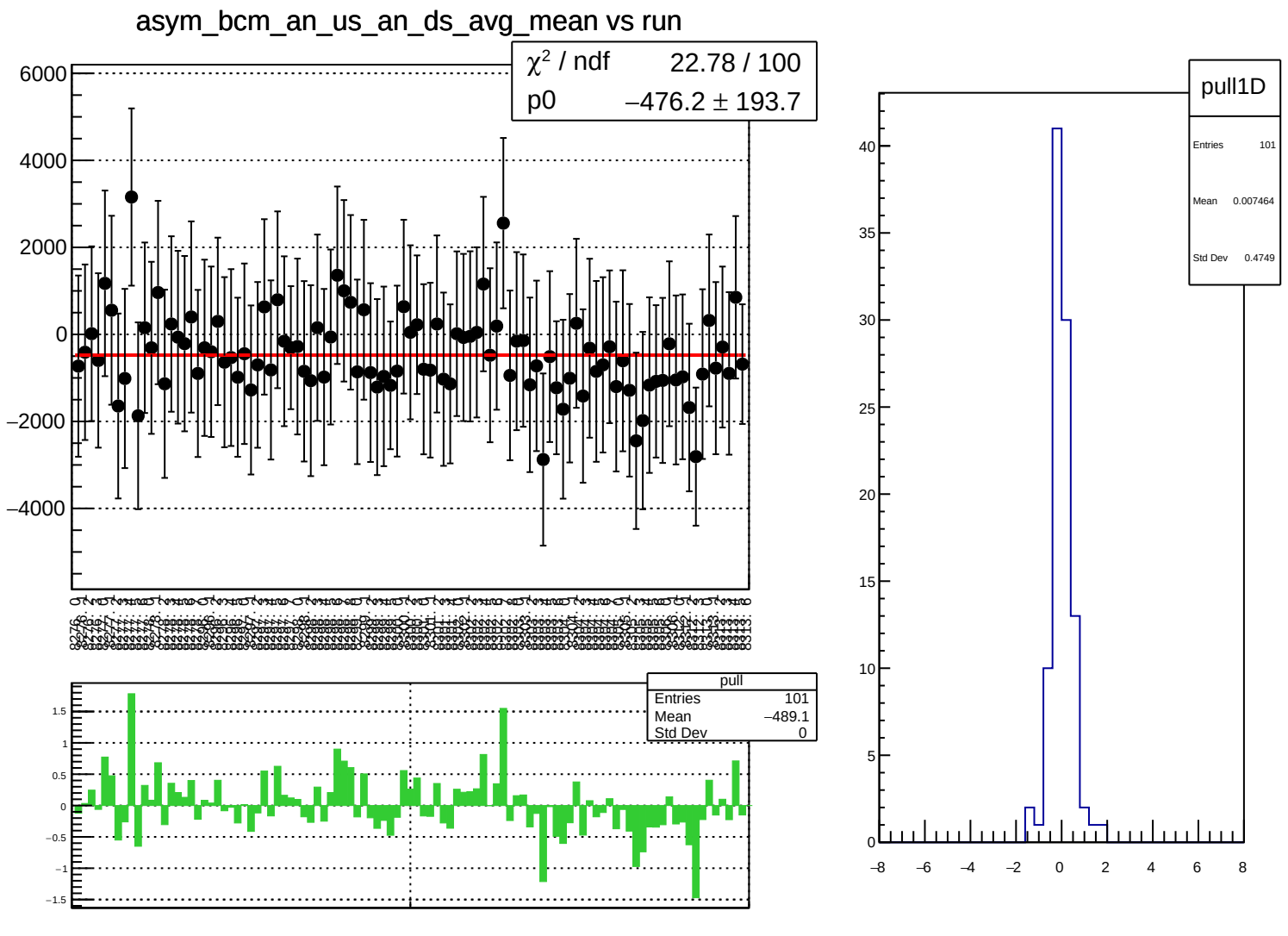

asym_bpm1i06WS_rms vs run
χ² / ndf 7457 / 100
p0 214.5 ± 0.1548
250
240
230
220
210
200
190
180

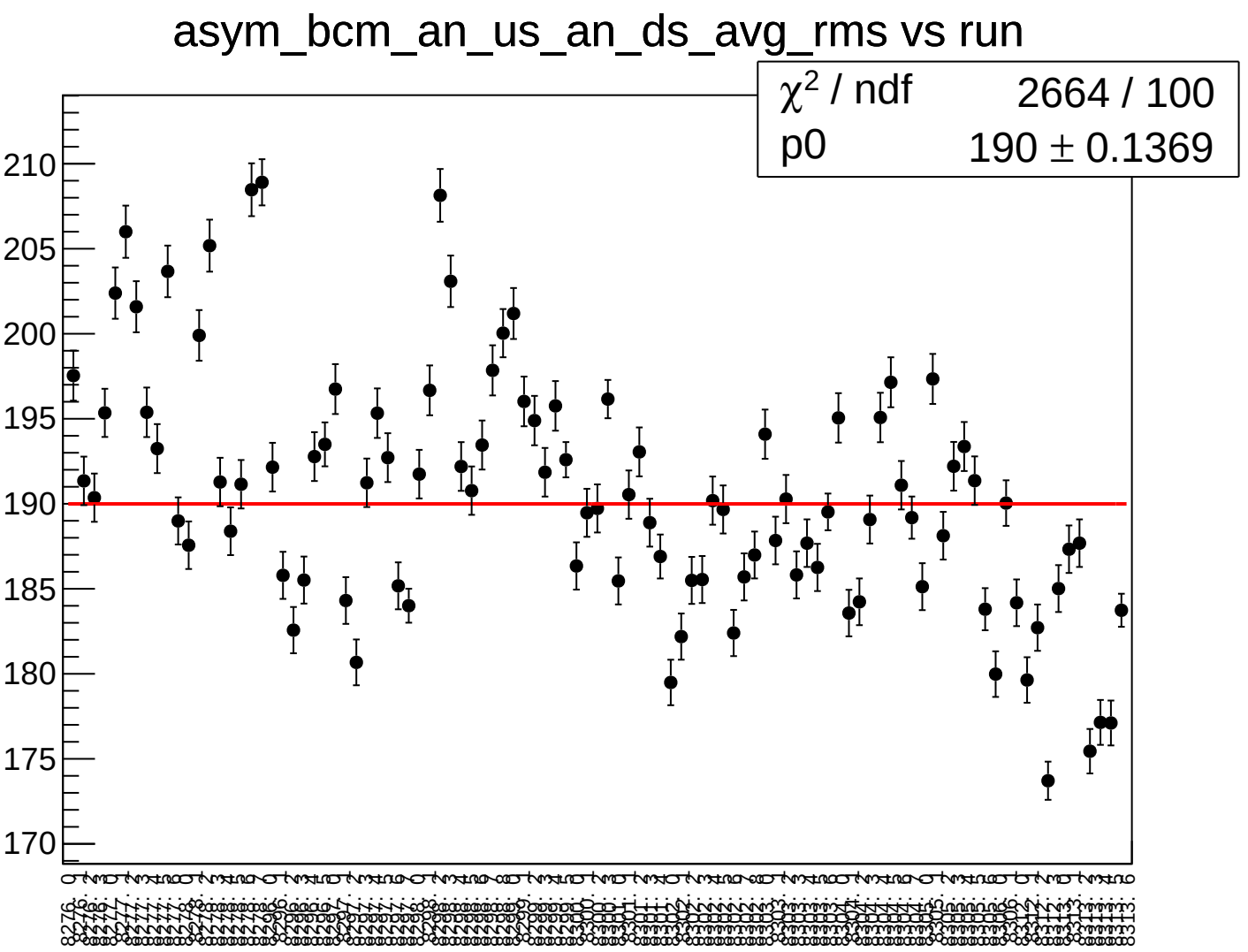

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 22.45 / 100
p0 −473.5 ± 193.9
6000
4000
2000
0
−2000
−4000
pull
Entries 101
Mean −488.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 101
Mean 0.007382
Std Dev 0.4714
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

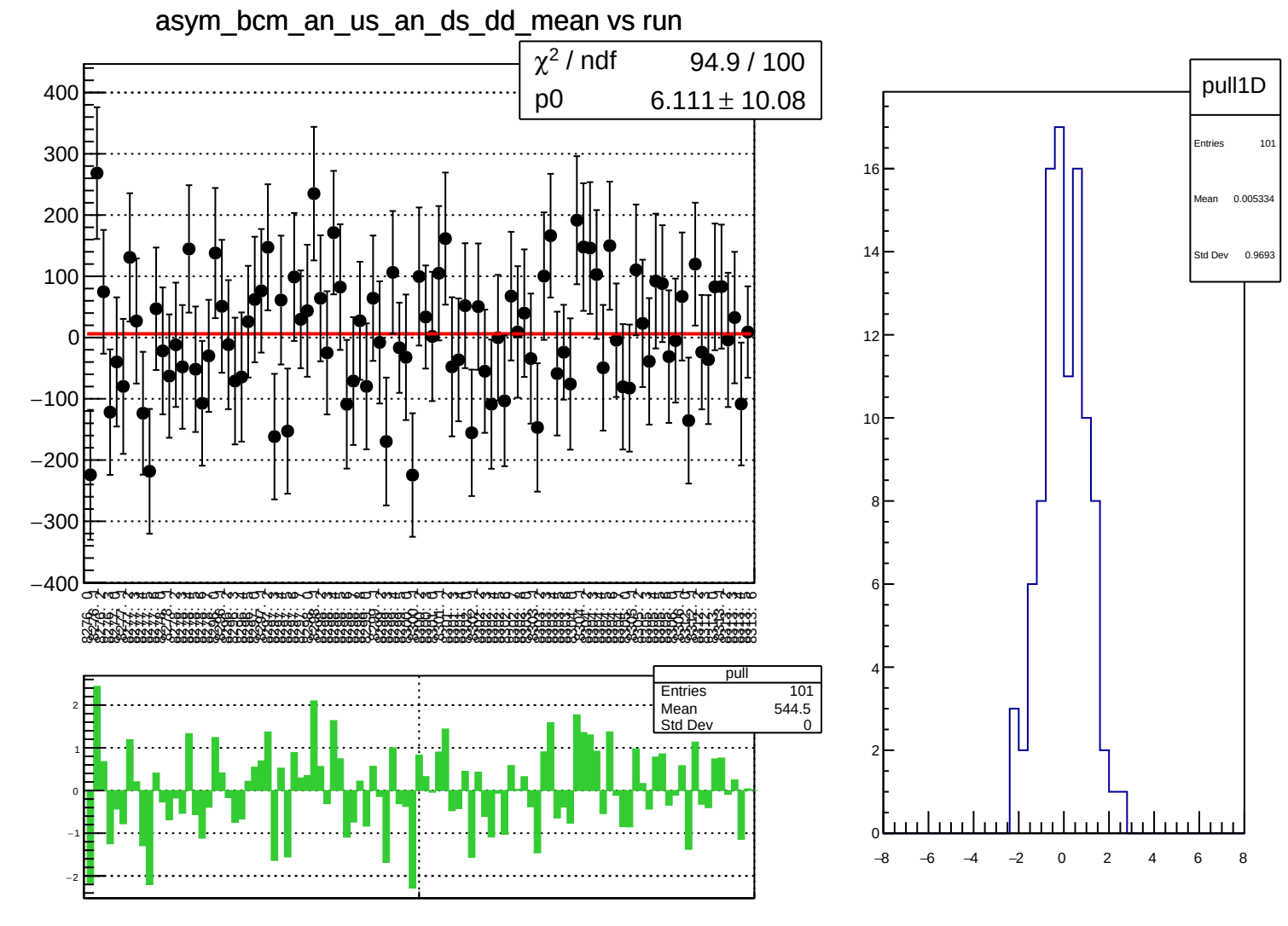

asym_bcm_2an_us_an_ds_avg_rms vs run
χ² / ndf 2657 / 100
p0 190.2 ± 0.1371
210
205
200
195
190
185
180
175
170

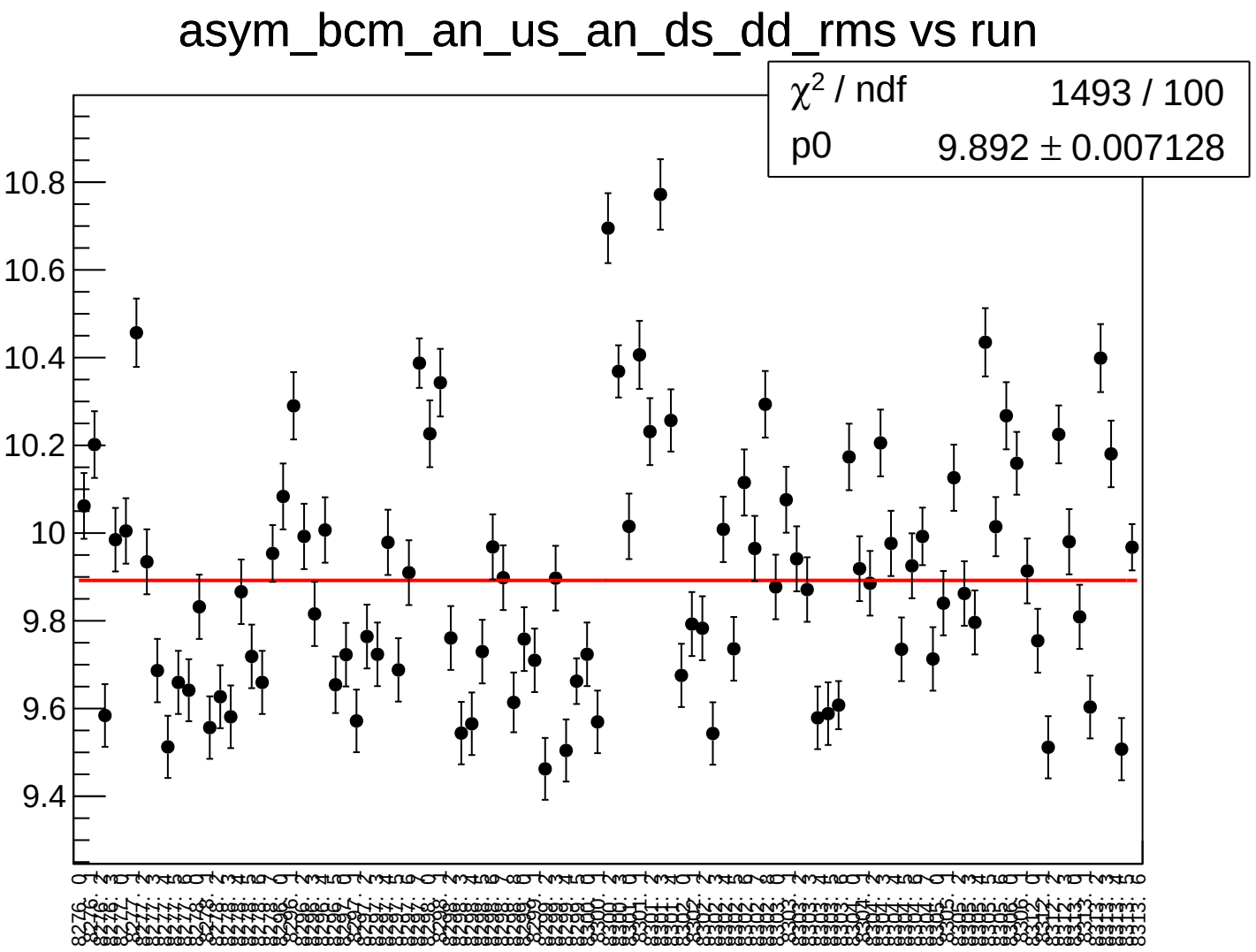

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 21.37 / 100
p0 −150.6 ± 66.01
1500
1000
500
0
−500
−1000
−1500
pull
Entries 101
Mean −486.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 101
Mean 0.006659
Std Dev 0.4599
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

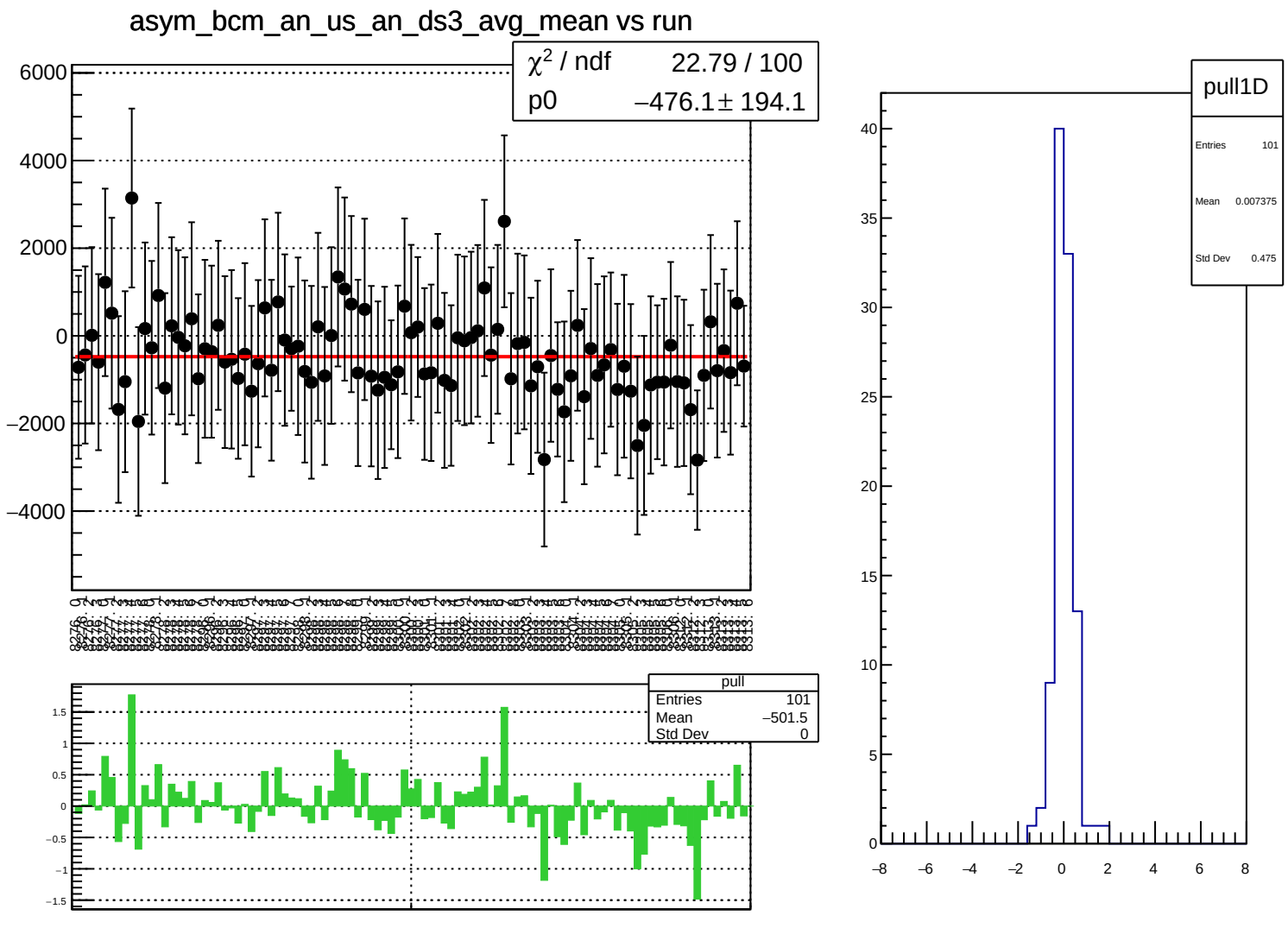

asym_bcm_2an_us_an_ds_dd_rms vs run
χ² / ndf 2497 / 100
p0 64.75 ± 0.04667
72
70
68
66
64
62
60
58

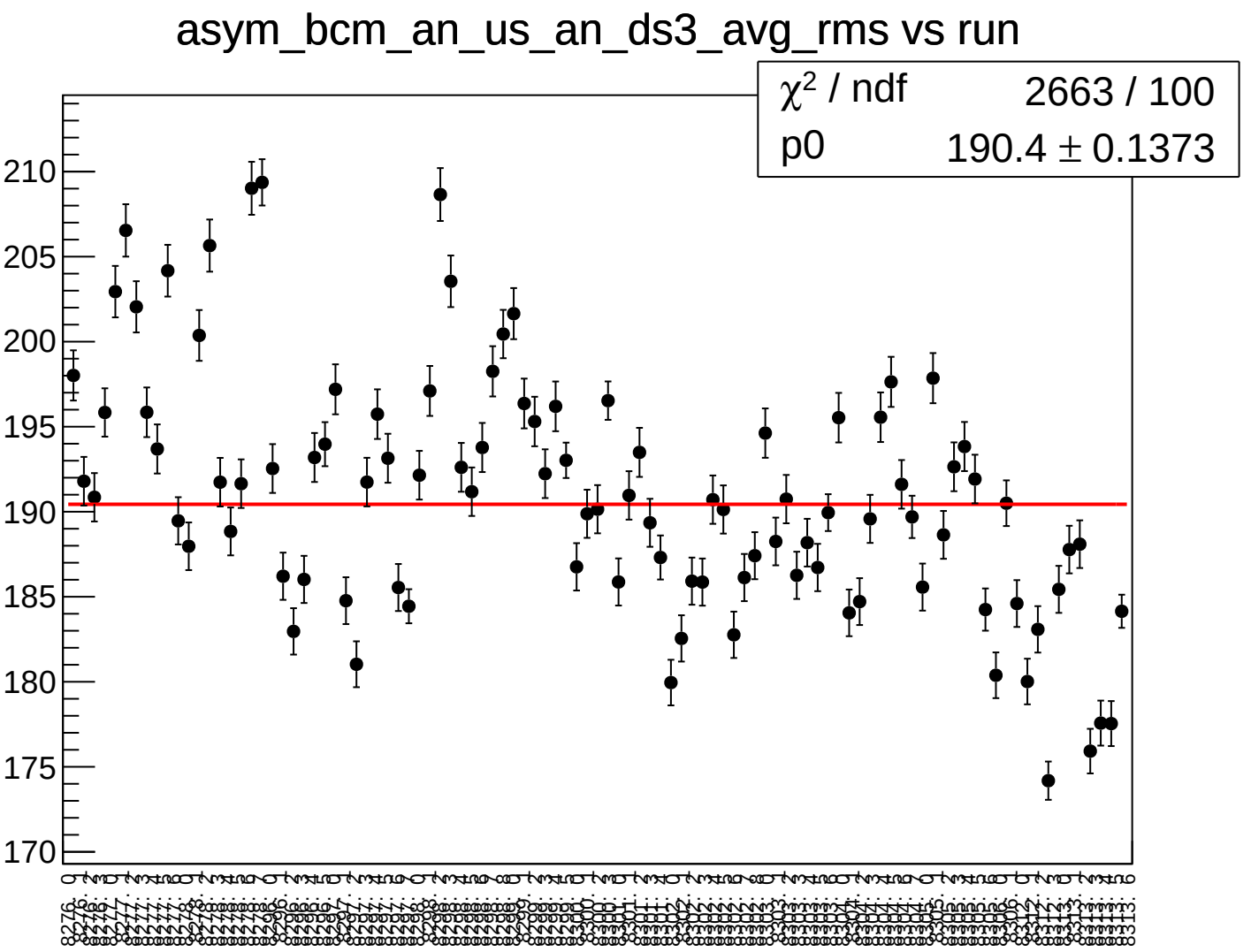

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 22.78 / 100
p0 −476.2 ± 193.7
6000
4000
2000
0
−2000
−4000
pull
Entries 101
Mean −489.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 101
Mean 0.007464
Std Dev 0.4749
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

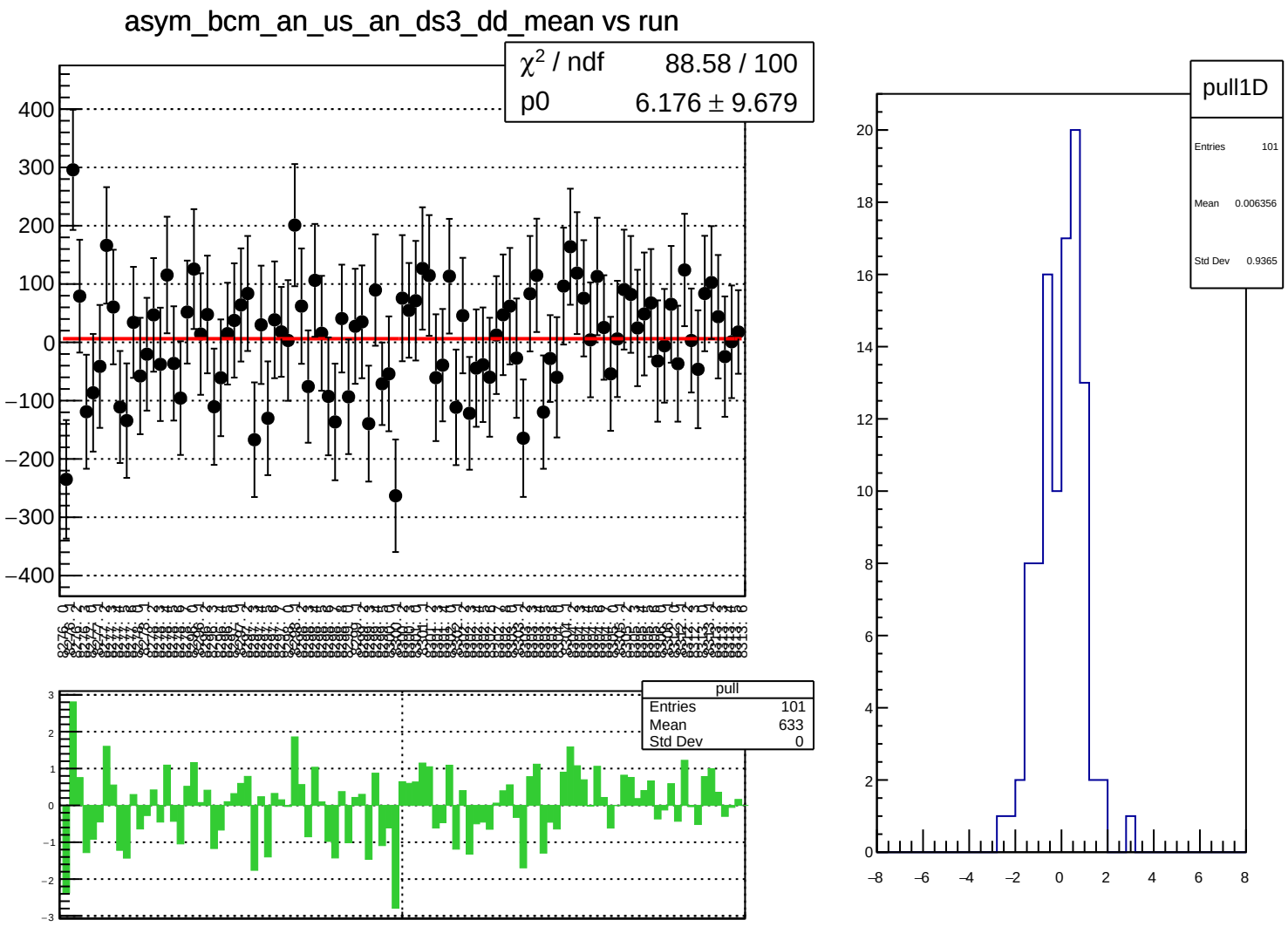

asym_bcm_an_us_an_ds_avg_rms vs run
χ² / ndf 2664 / 100
p0 190 ± 0.1369
210
205
200
195
190
185
180
175
170

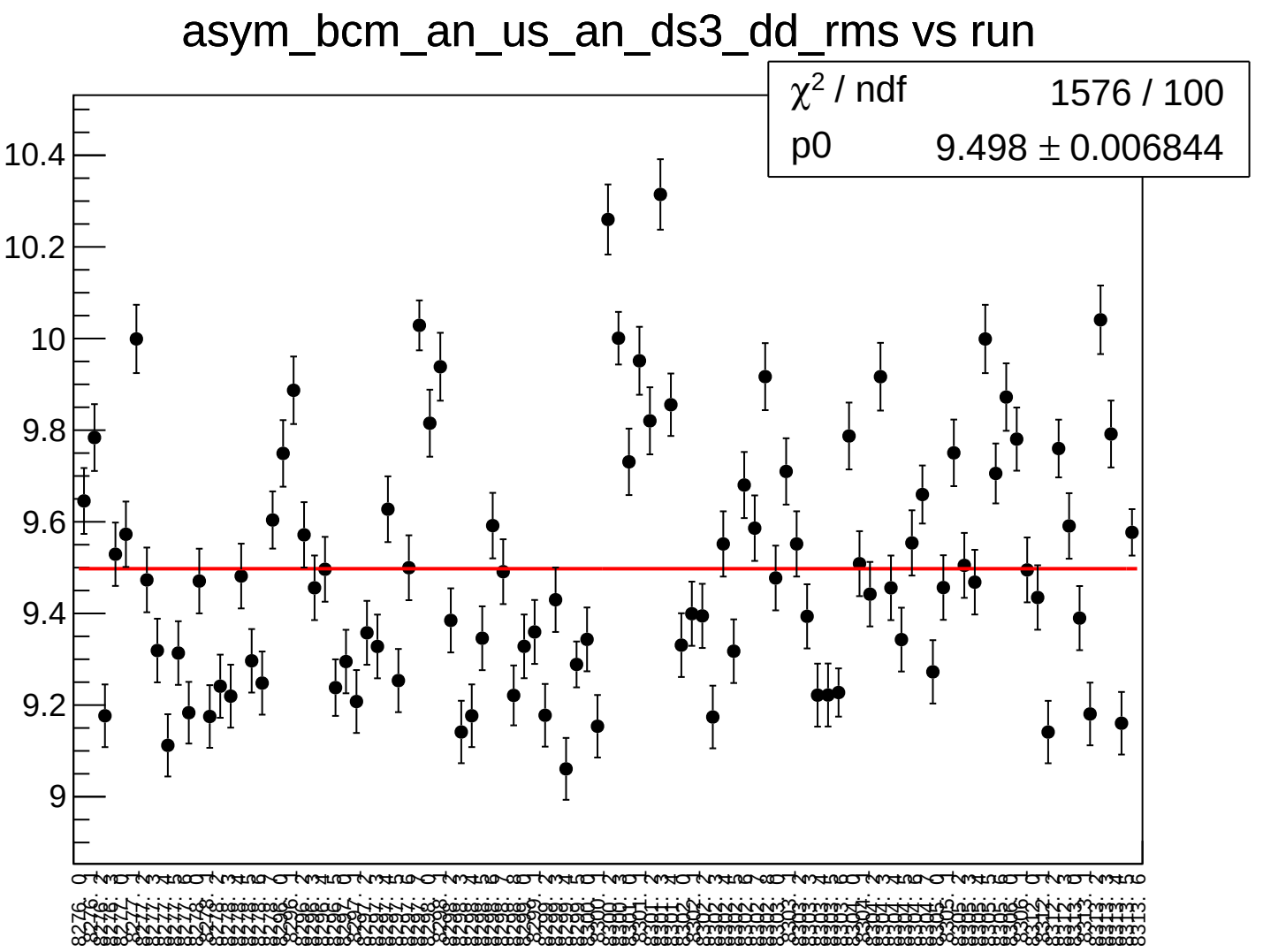

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 94.9 / 100
p0 6.111 ± 10.08
pull
Entries 101
Mean 544.5
Std Dev 0
pull1D
Entries 101
Mean 0.005334
Std Dev 0.9693

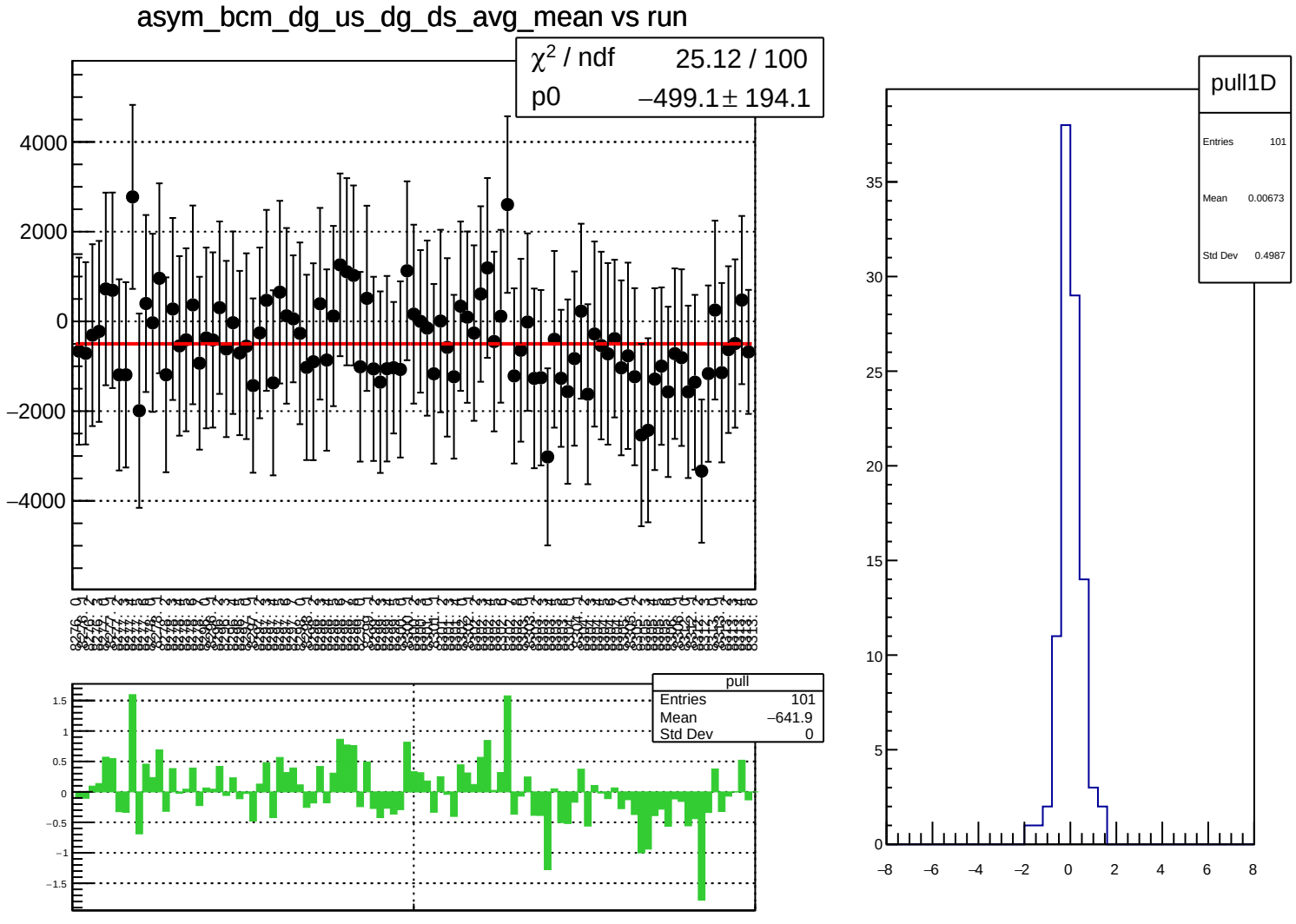

asym_bcm_an_us_an_ds_dd_rms vs run
χ² / ndf 1493 / 100
p0 9.892 ± 0.007128
10.8
10.6
10.4
10.2
10
9.8
9.6
9.4

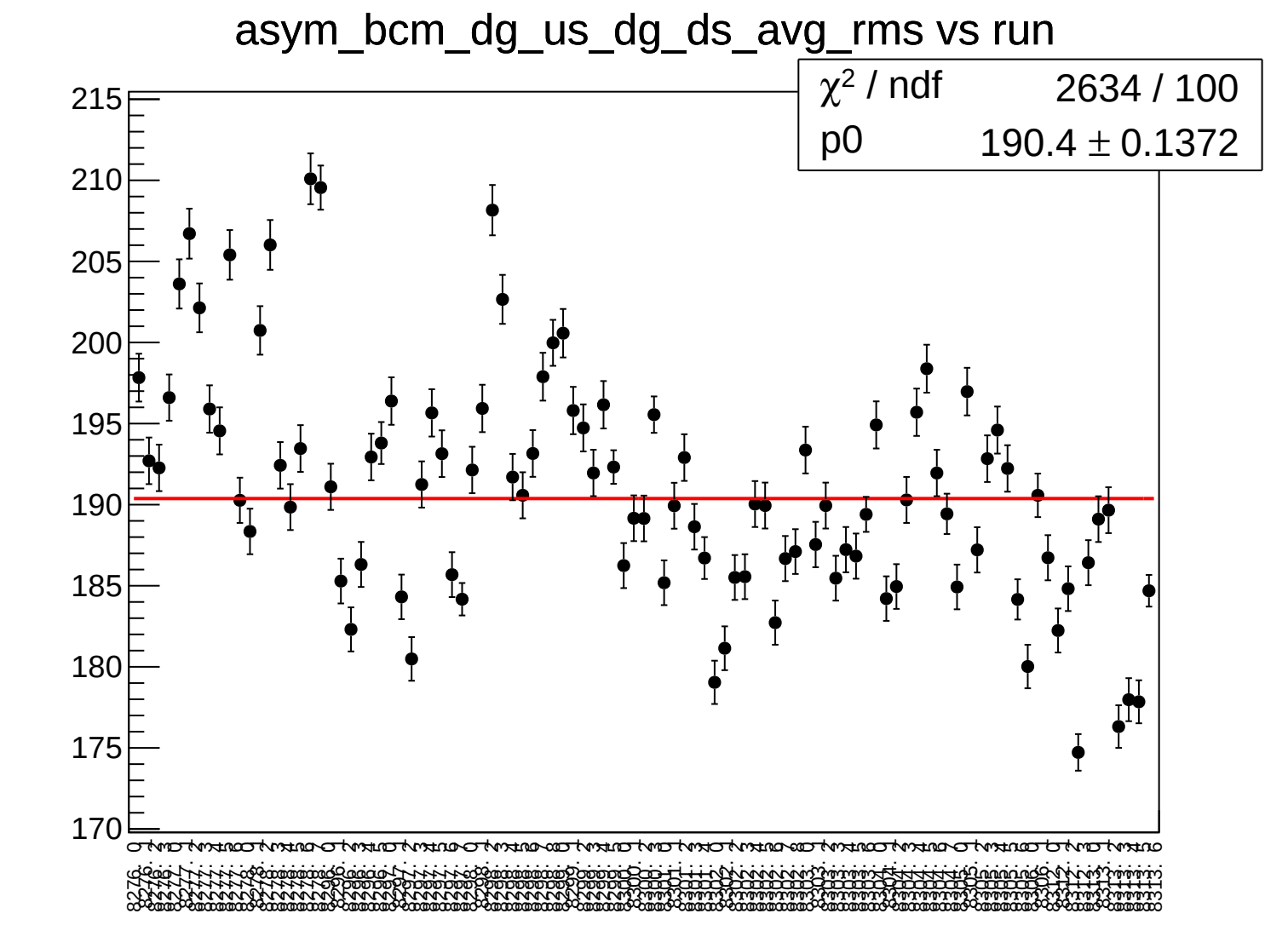

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 22.79 / 100
p0 −476.1 ± 194.1
6000
4000
2000
0
−2000
−4000
pull
Entries 101
Mean −501.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 101
Mean 0.007375
Std Dev 0.475
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

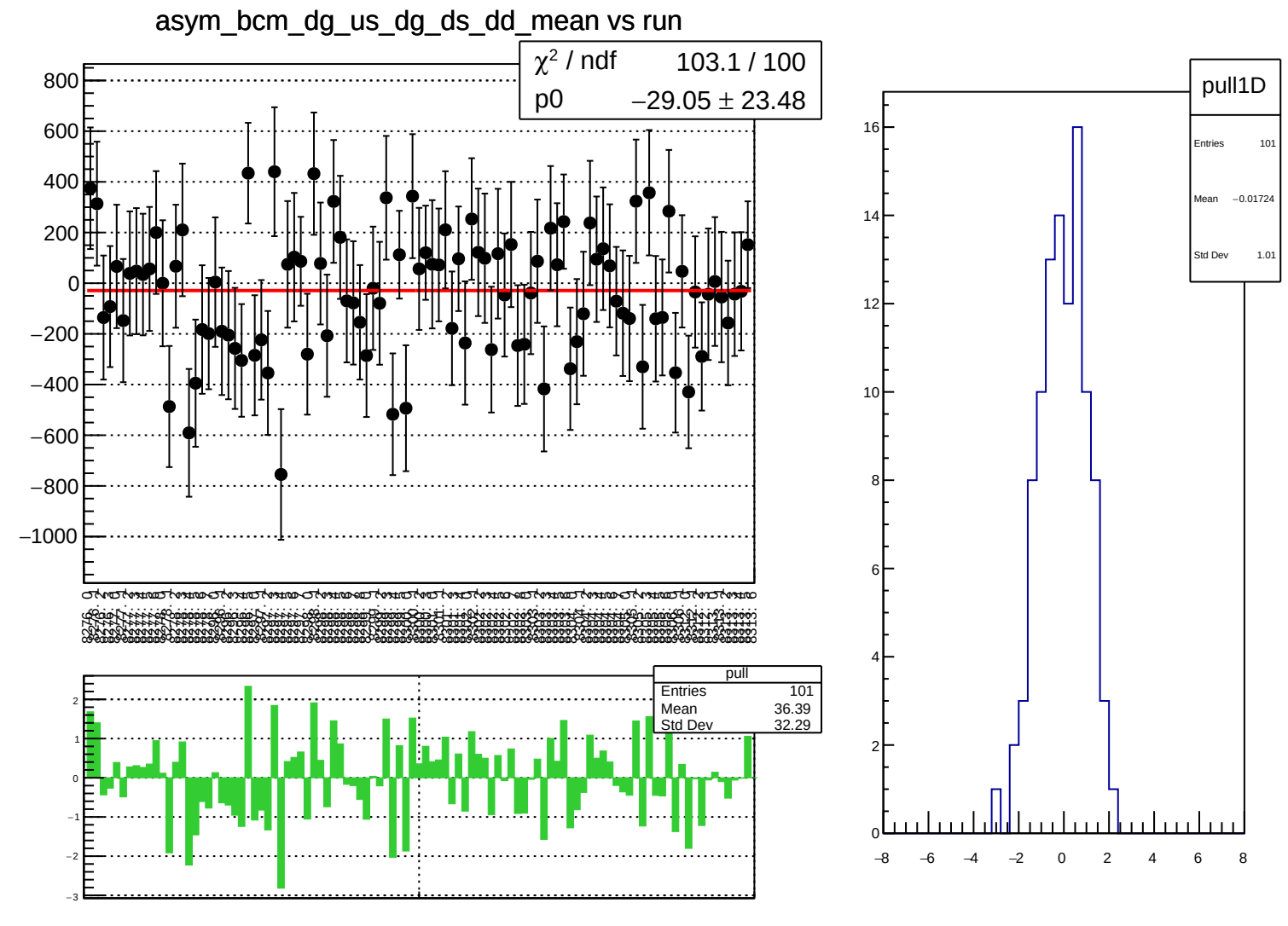

asym_bcm_an_us_an_ds3_avg_rms vs run
χ² / ndf 2663 / 100
p0 190.4 ± 0.1373
210
205
200
195
190
185
180
175
170

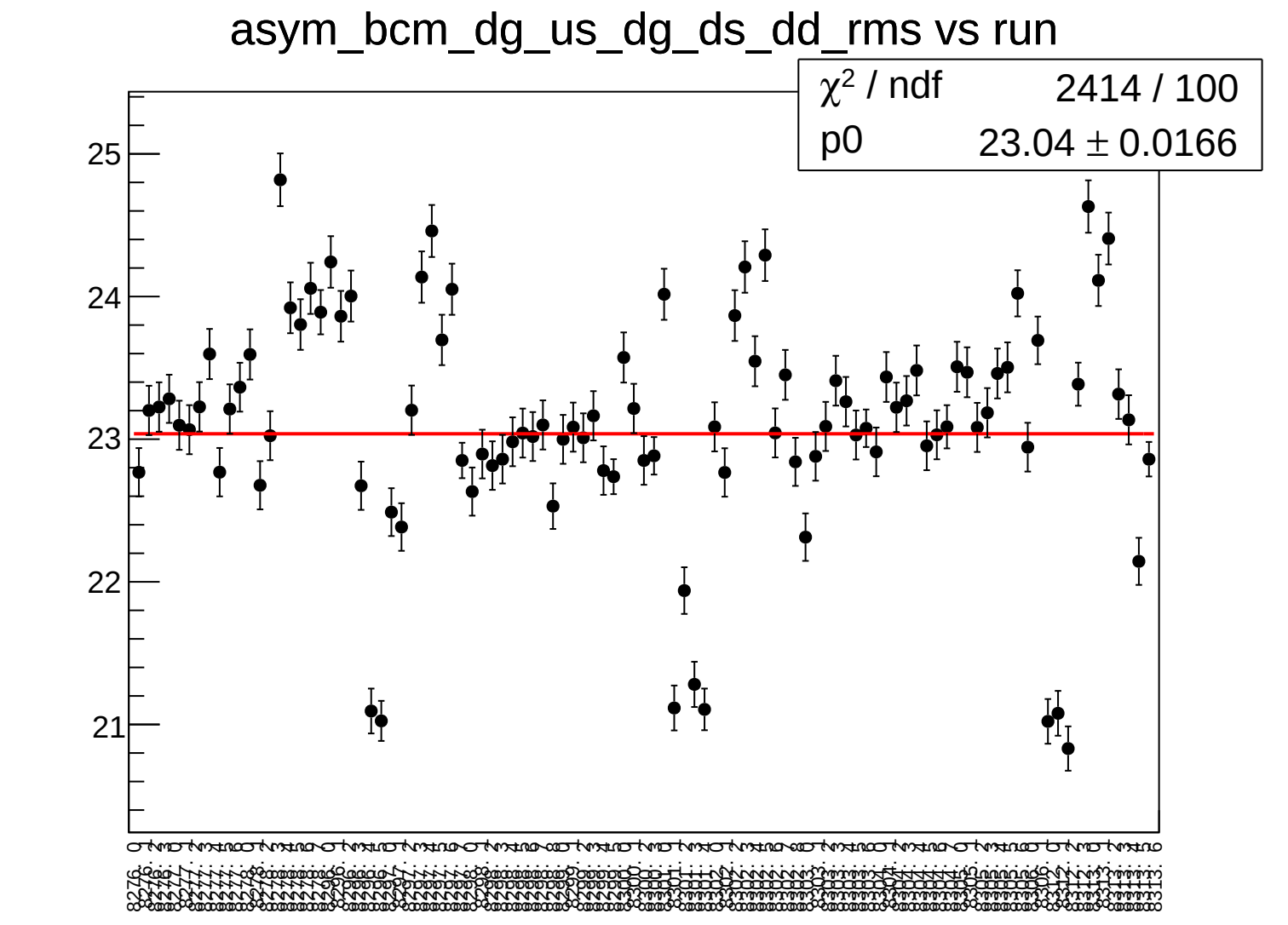

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 88.58 / 100
p0 6.176 ± 9.679
pull
Entries 101
Mean 633
Std Dev 0
pull1D
Entries 101
Mean 0.006356
Std Dev 0.9365

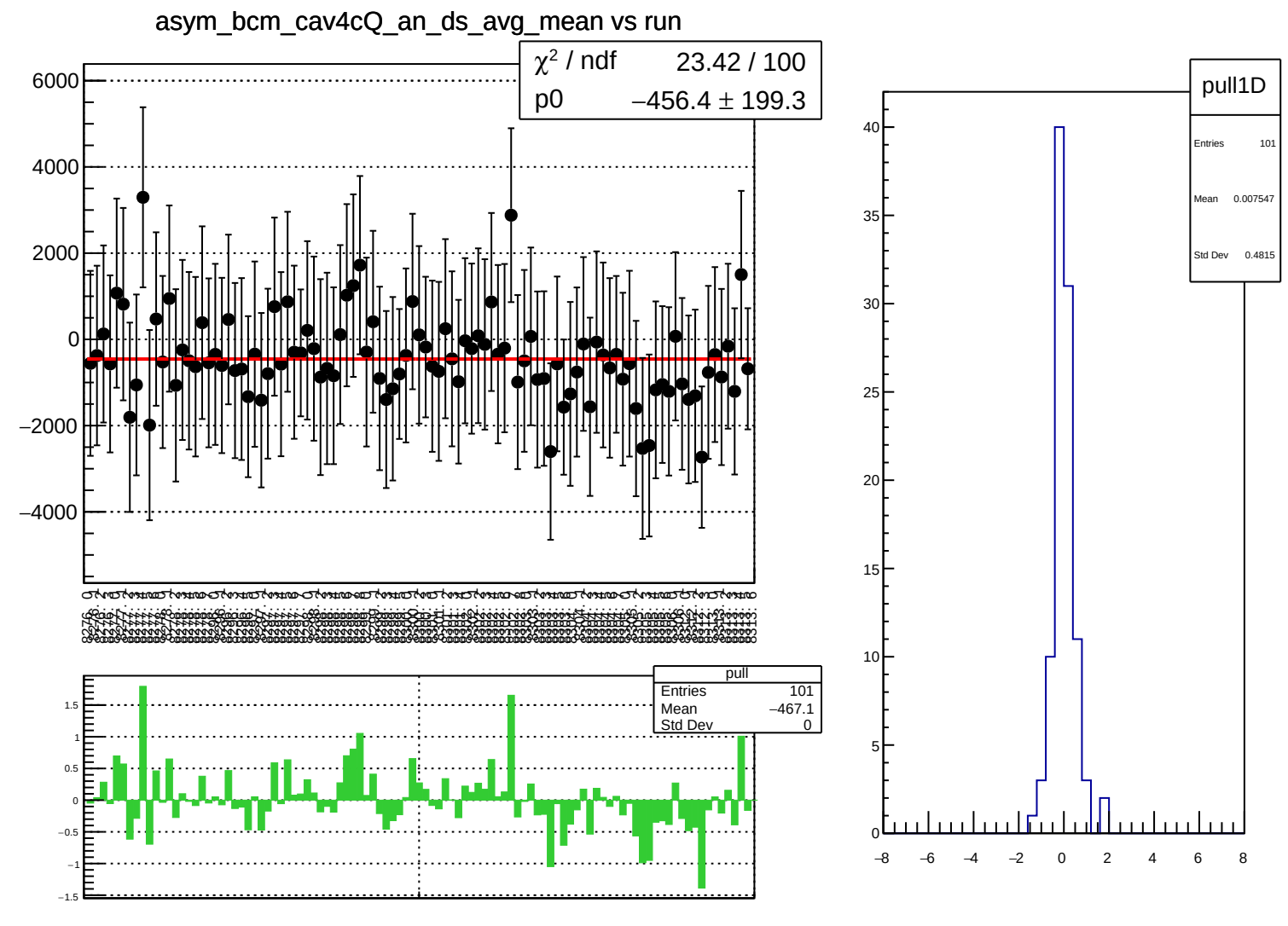

asym_bcm_an_us_an_ds3_dd_rms vs run
χ² / ndf 1576 / 100
p0 9.498 ± 0.006844
10.4
10.2
10
9.8
9.6
9.4
9.2
9

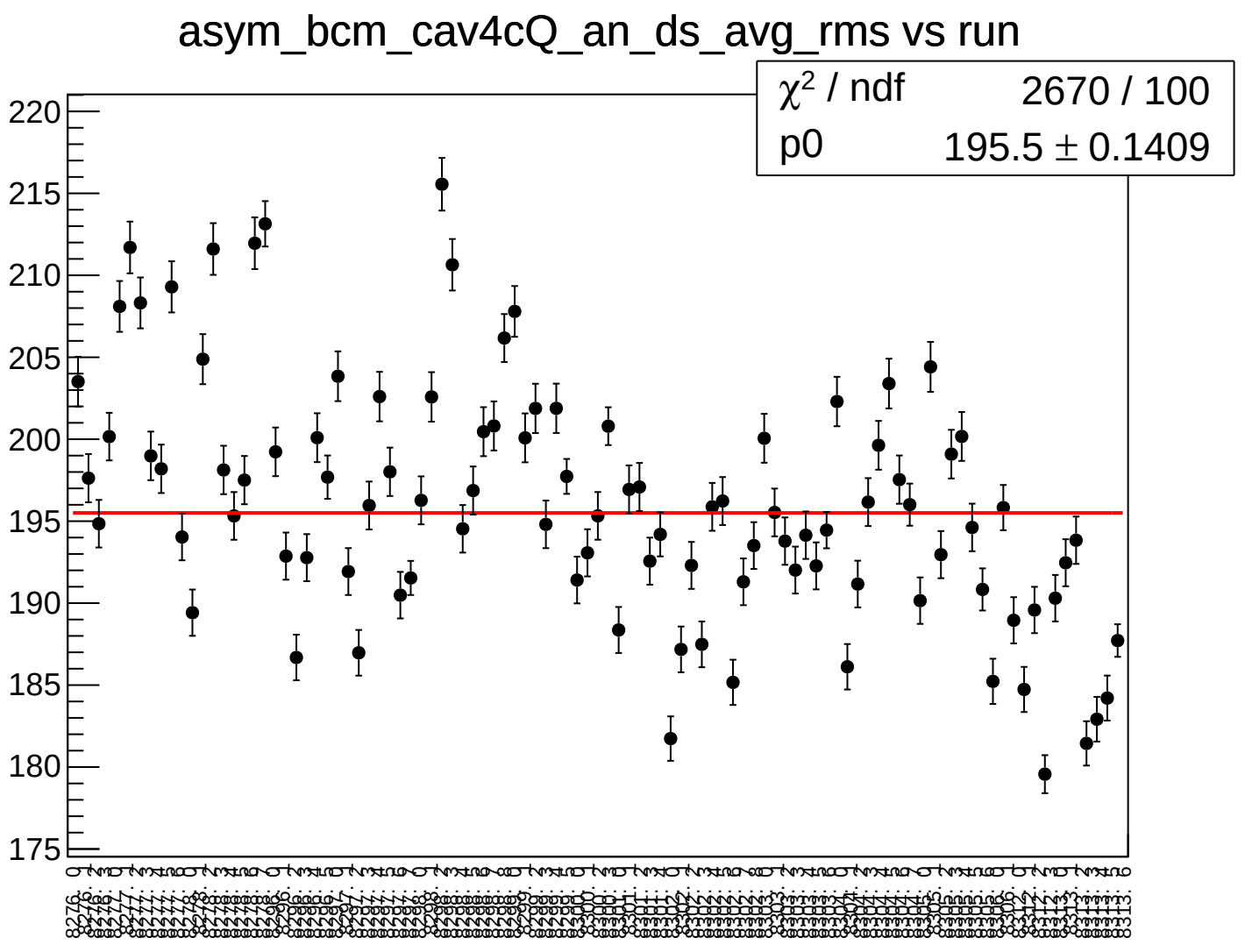

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 25.12 / 100
p0 −499.1 ± 194.1
4000
2000
0
−2000
−4000
pull
Entries 101
Mean −641.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 101
Mean 0.00673
Std Dev 0.4987
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

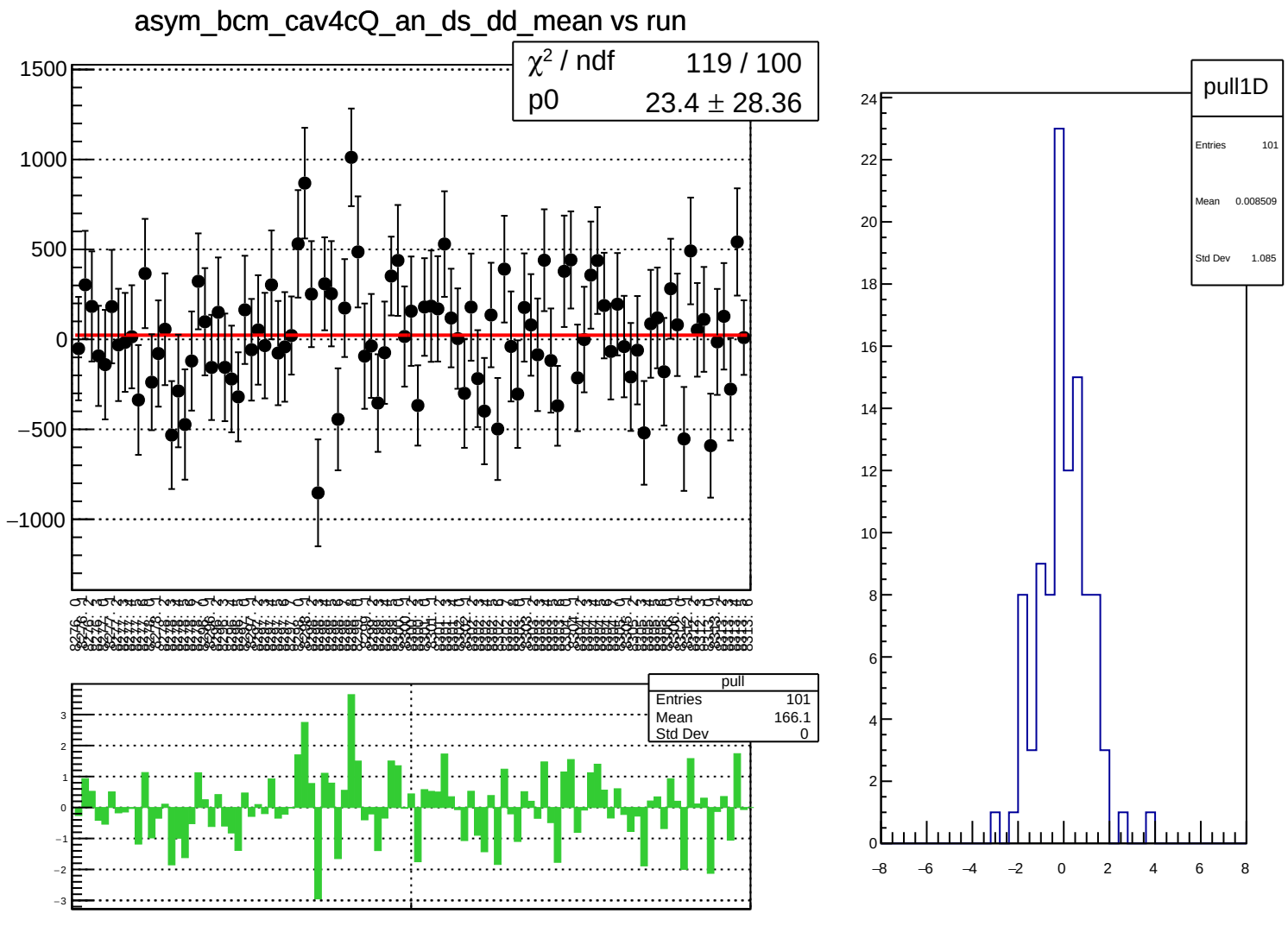

asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 2634 / 100
p0 190.4 ± 0.1372
215
210
205
200
195
190
185
180
175
170

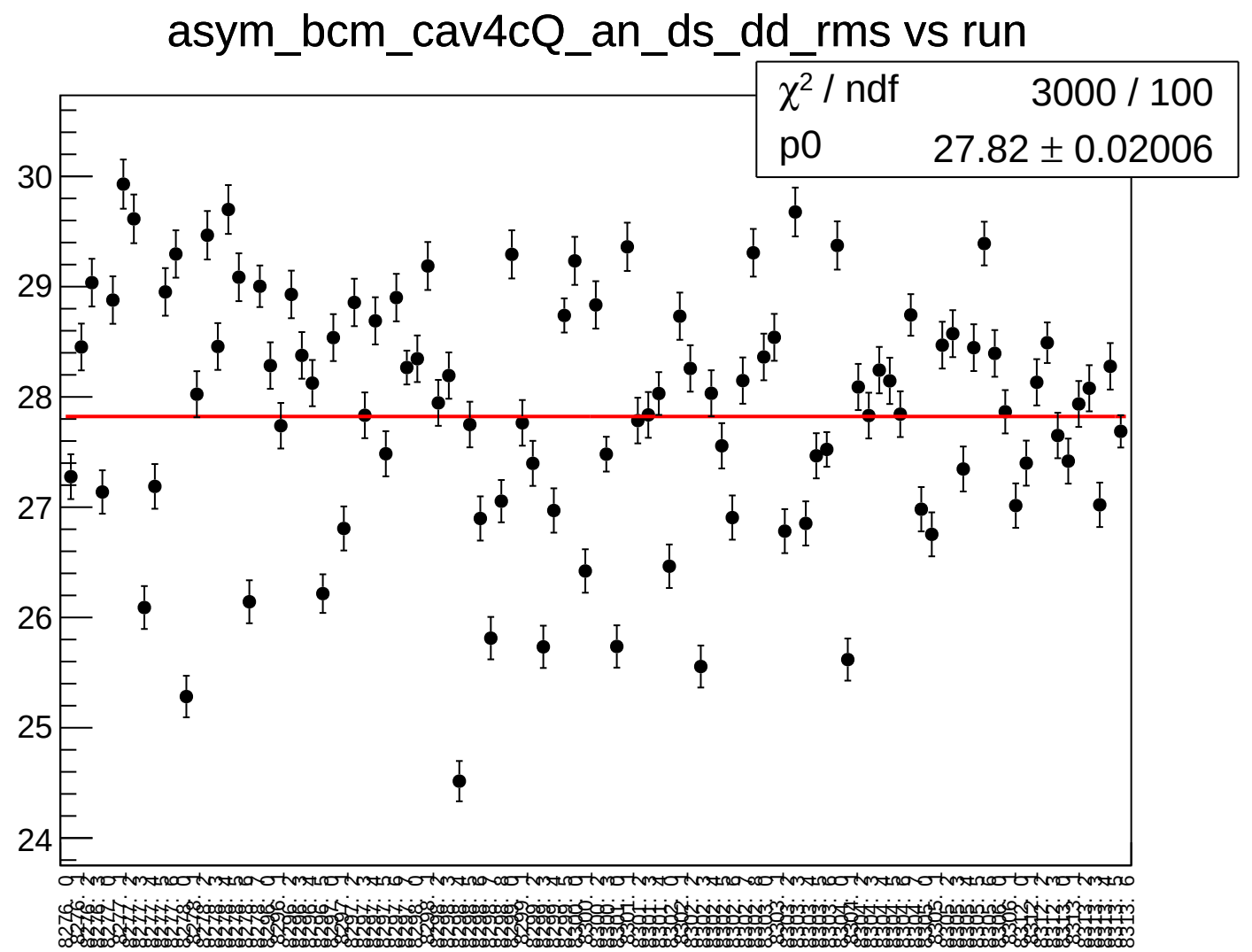

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 103.1 / 100
p0 −29.05 ± 23.48
pull
Entries 101
Mean 36.39
Std Dev 32.29
pull1D
Entries 101
Mean −0.01724
Std Dev 1.01

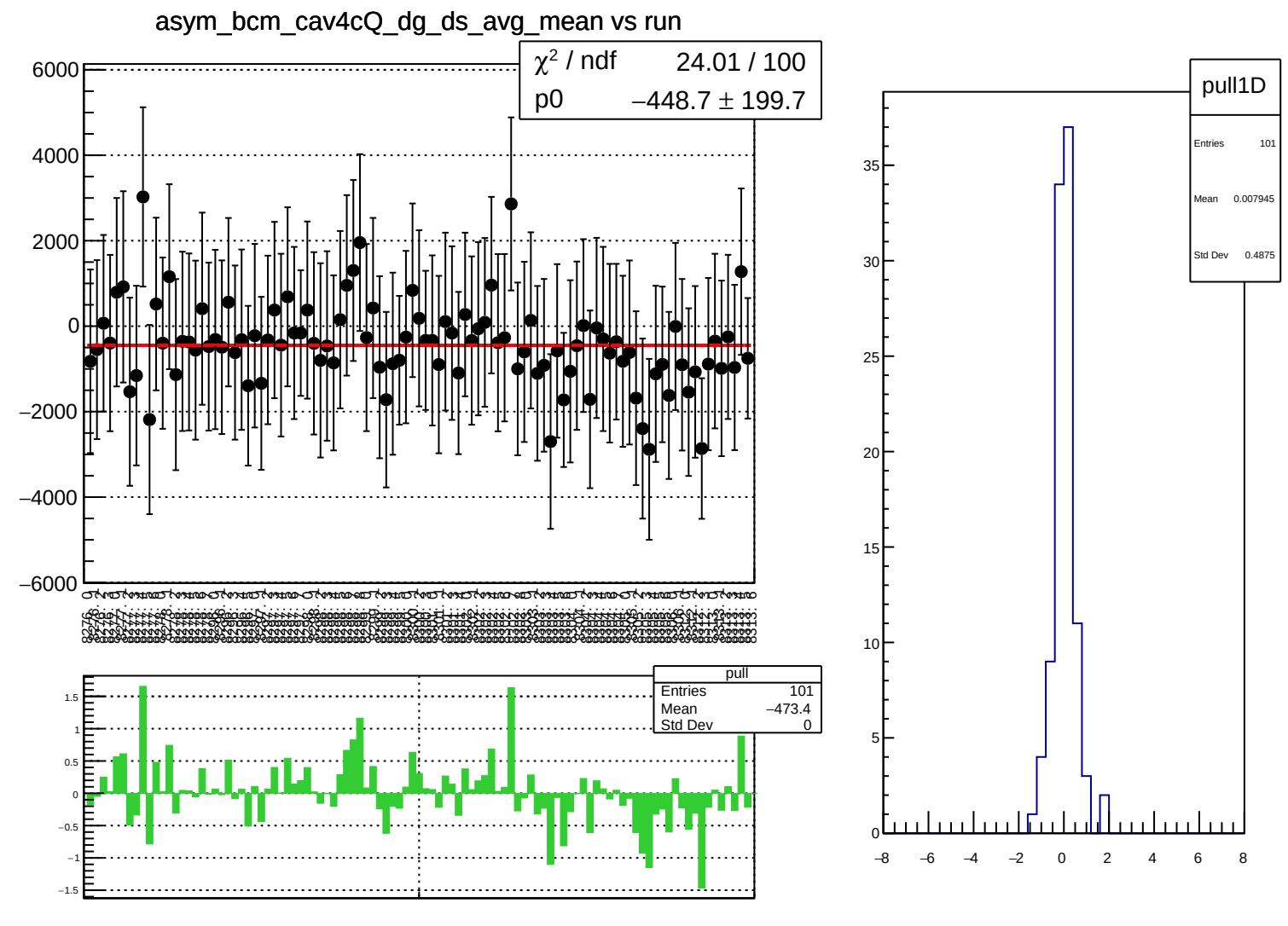

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 2414 / 100
p0 23.04 ± 0.0166
25
24
23
22
21

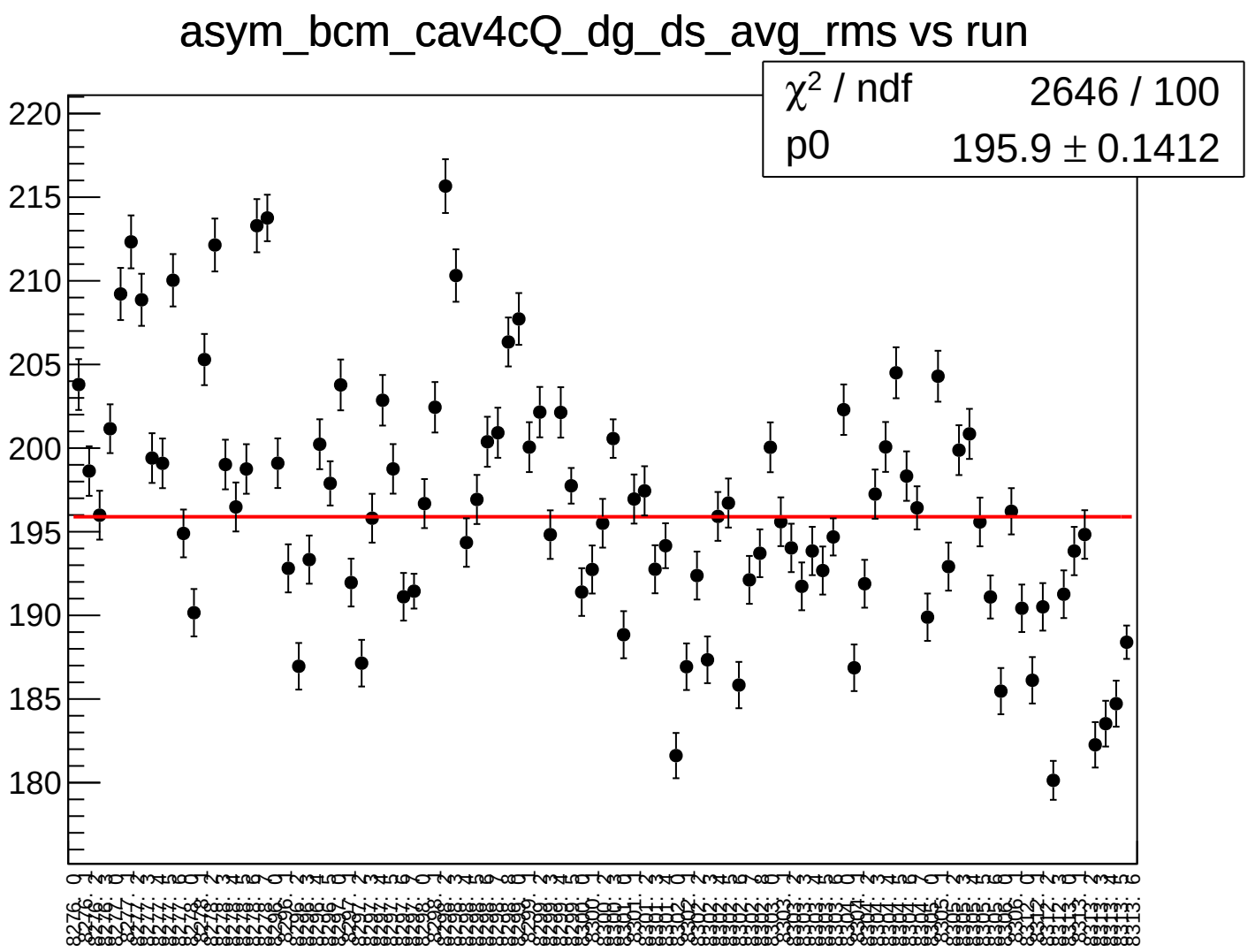

asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 23.42 / 100
p0 −456.4 ± 199.3
6000
4000
2000
0
−2000
−4000
pull
Entries 101
Mean −467.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 101
Mean 0.007547
Std Dev 0.4815
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

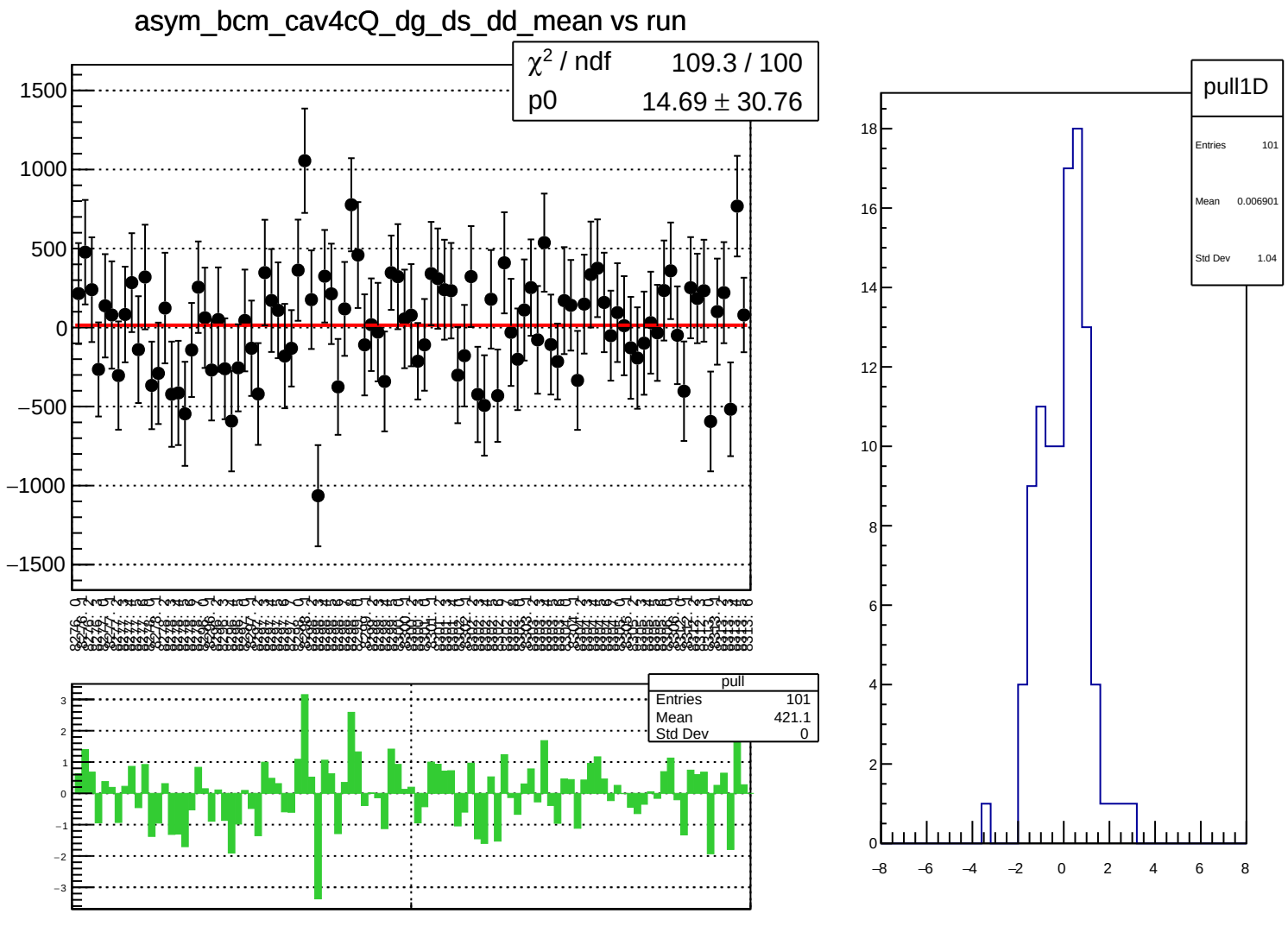

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ² / ndf 2670 / 100
p0 195.5 ± 0.1409
220
215
210
205
200
195
190
185
180
175

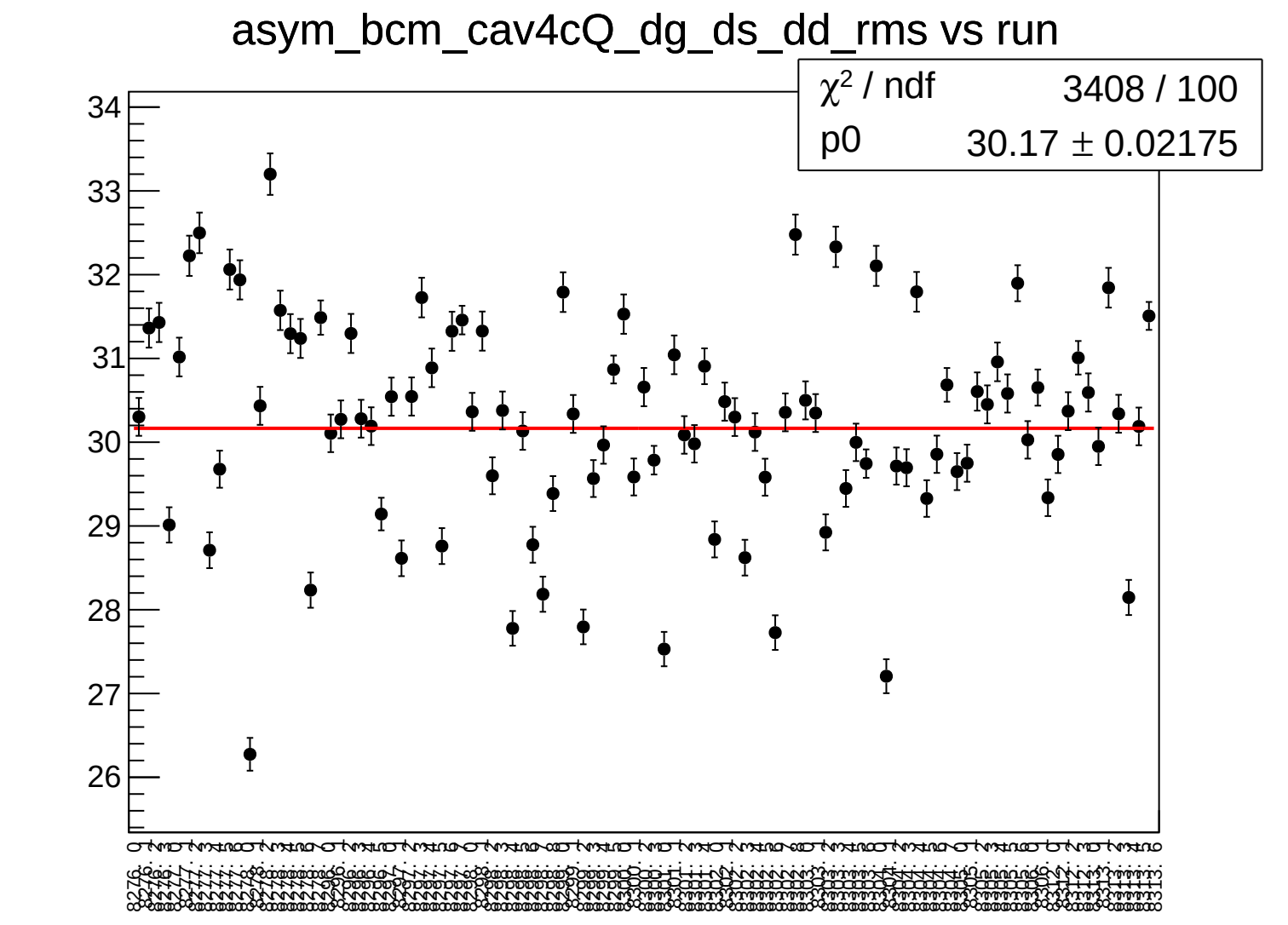

asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 119 / 100
p0 23.4 ± 28.36
1500
1000
500
0
−500
−1000
pull
Entries 101
Mean 166.1
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.008509
Std Dev 1.085
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

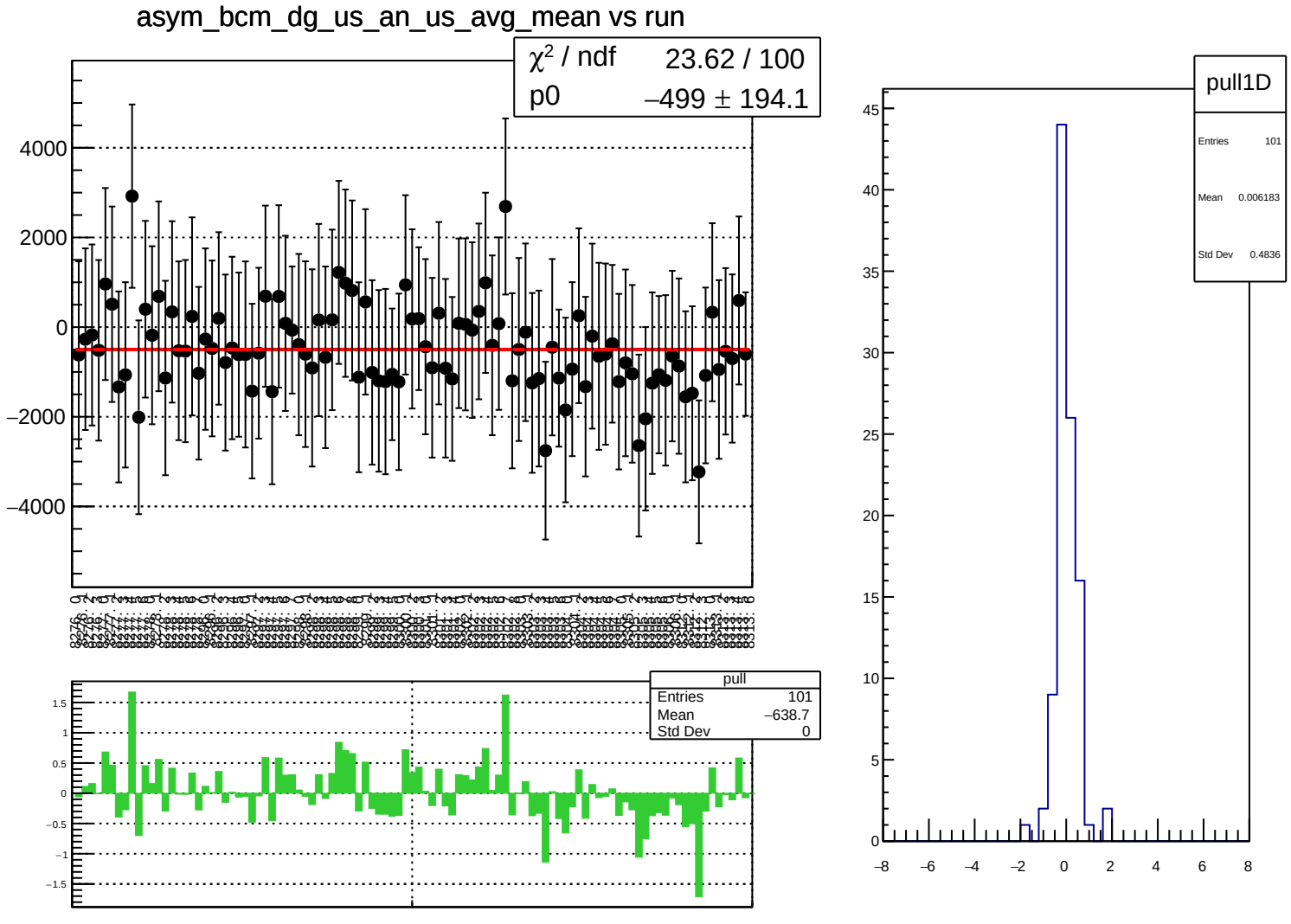

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 3000 / 100
p0 27.82 ± 0.02006
30
29
28
27
26
25
24

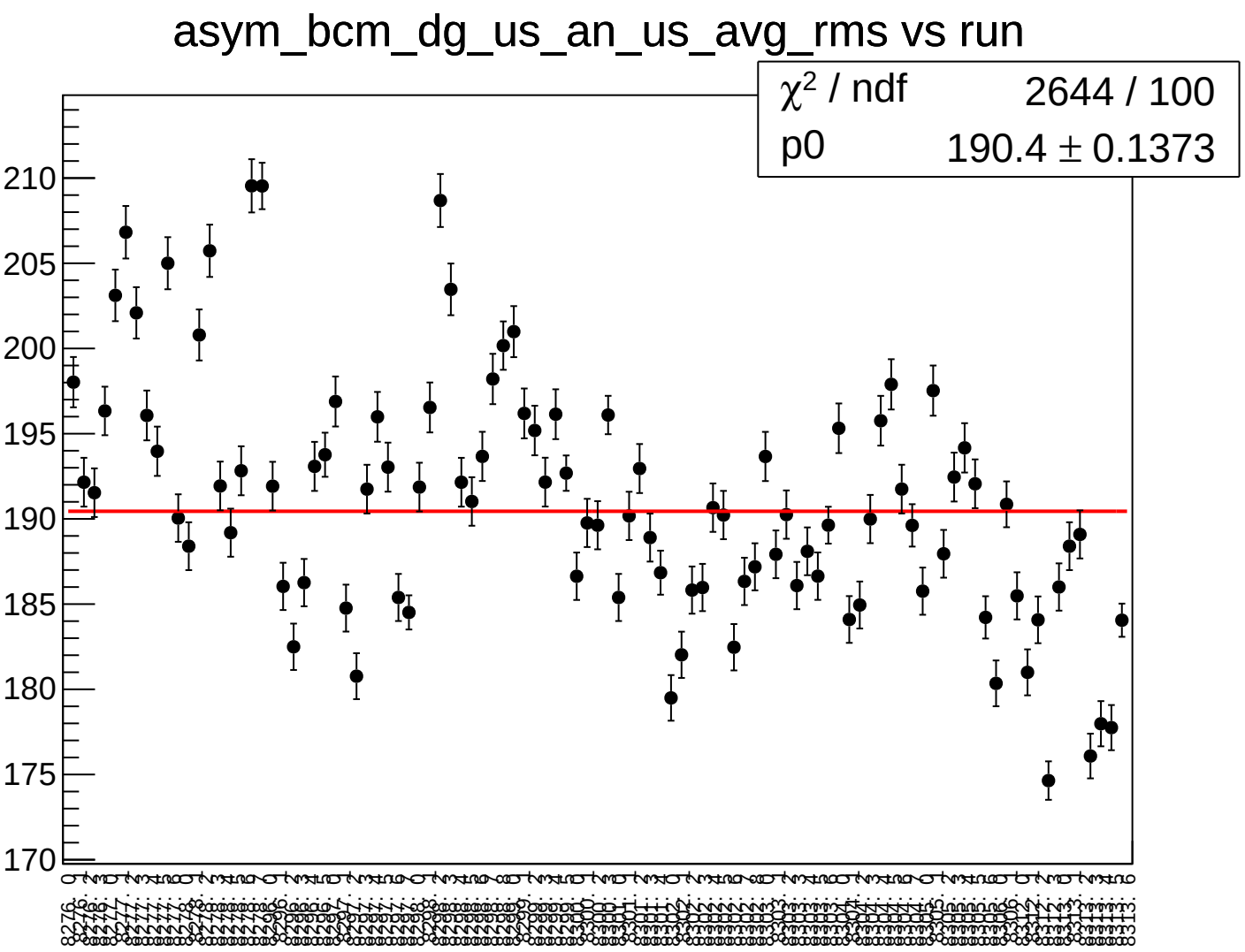

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 24.01 / 100
p0 −448.7 ± 199.7
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 101
Mean −473.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 101
Mean 0.007945
Std Dev 0.4875
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

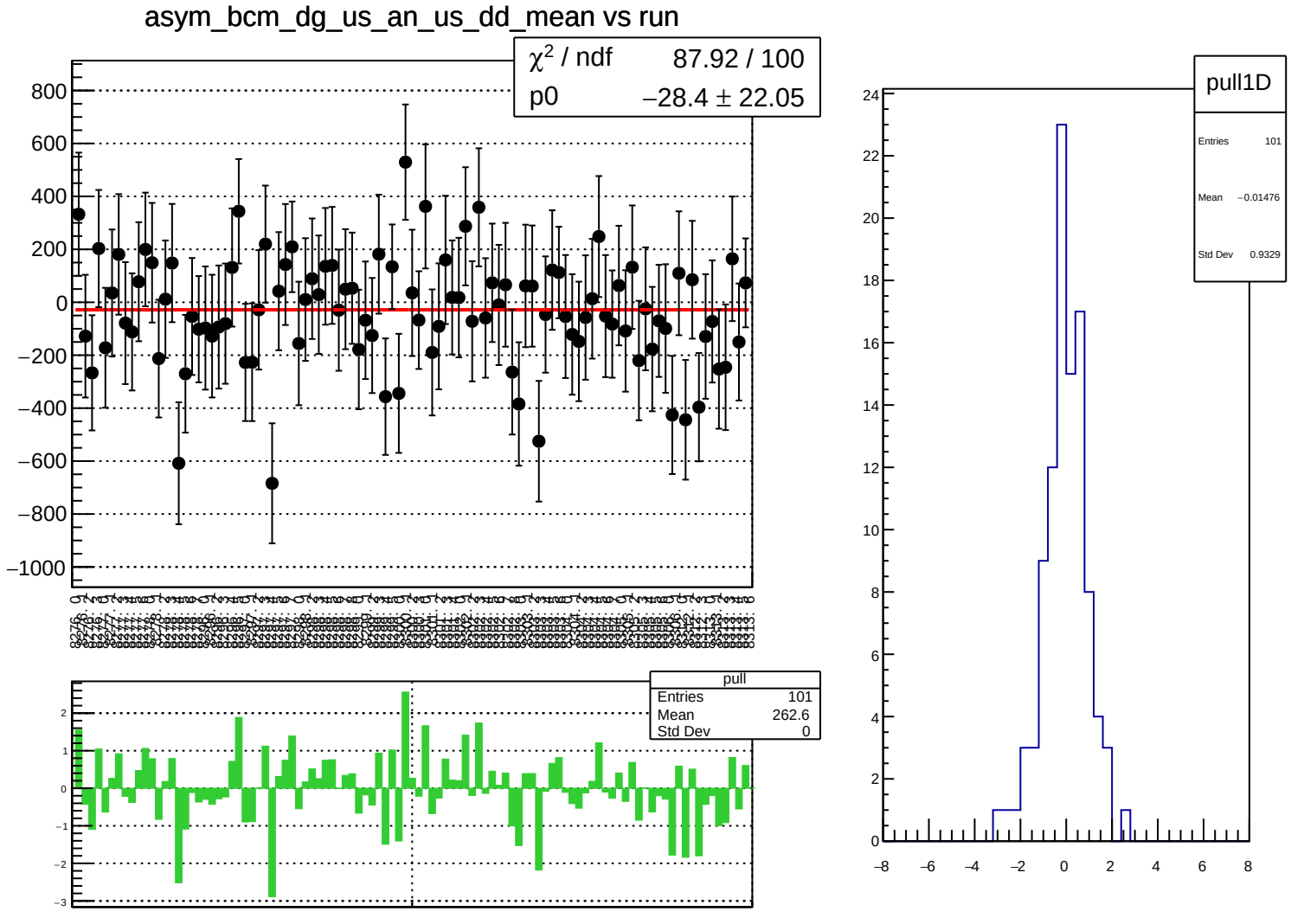

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 2646 / 100
p0 195.9 ± 0.1412
220
215
210
205
200
195
190
185
180

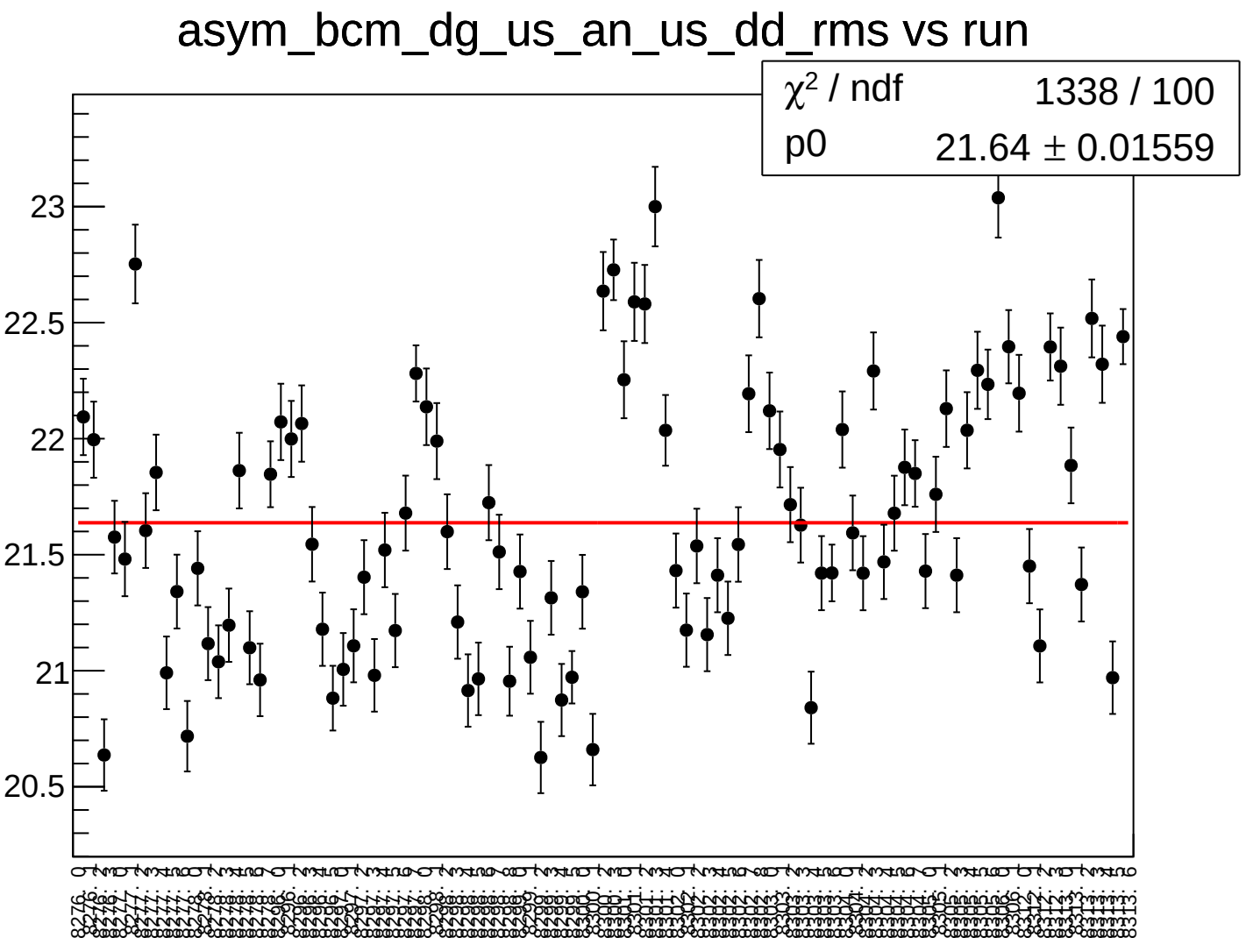

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 109.3 / 100
p0 14.69 ± 30.76
1500
1000
500
0
−500
−1000
−1500
pull
Entries 101
Mean 421.1
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.006901
Std Dev 1.04
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

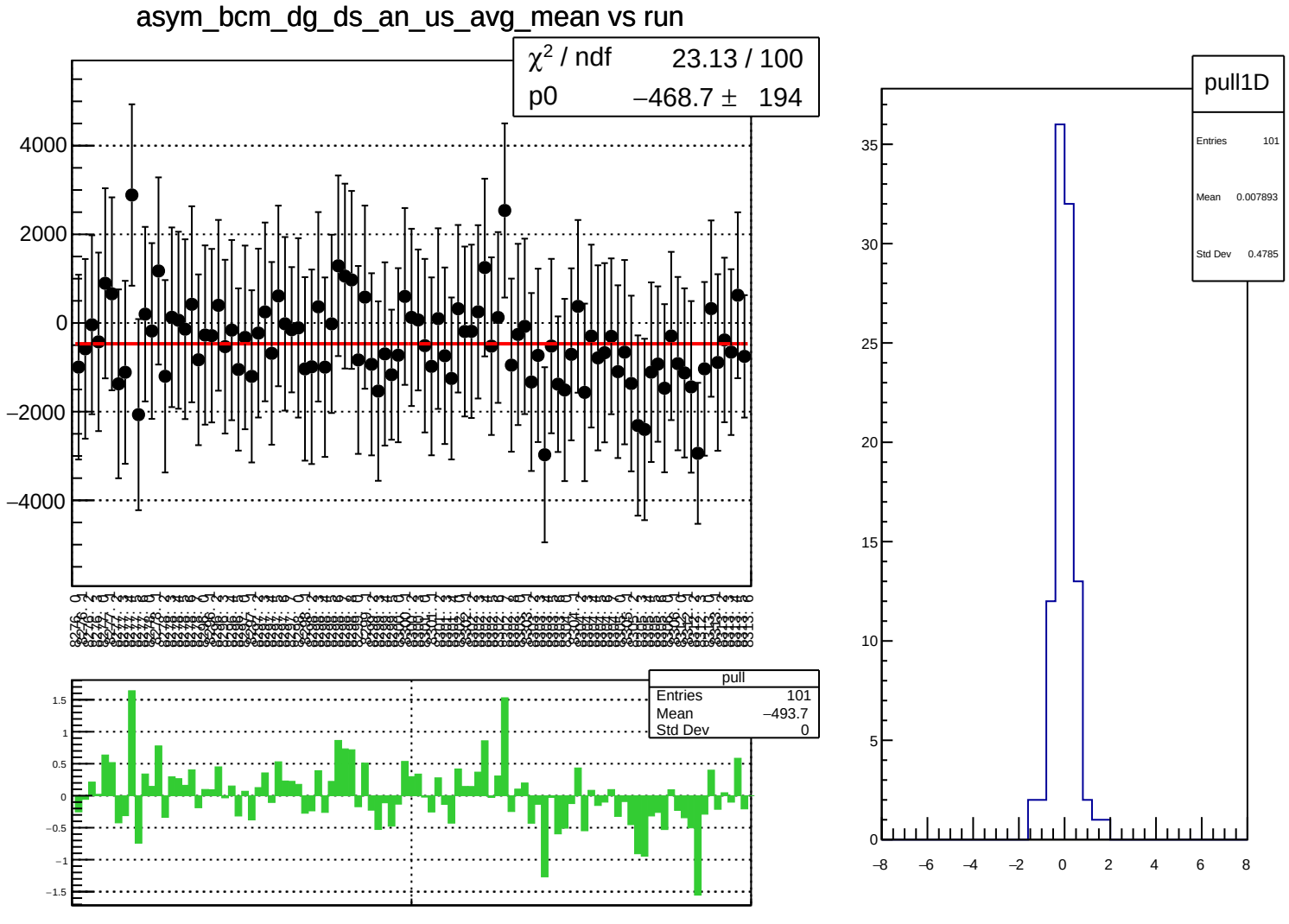

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 3408 / 100
p0 30.17 ± 0.02175
34
33
32
31
30
29
28
27
26

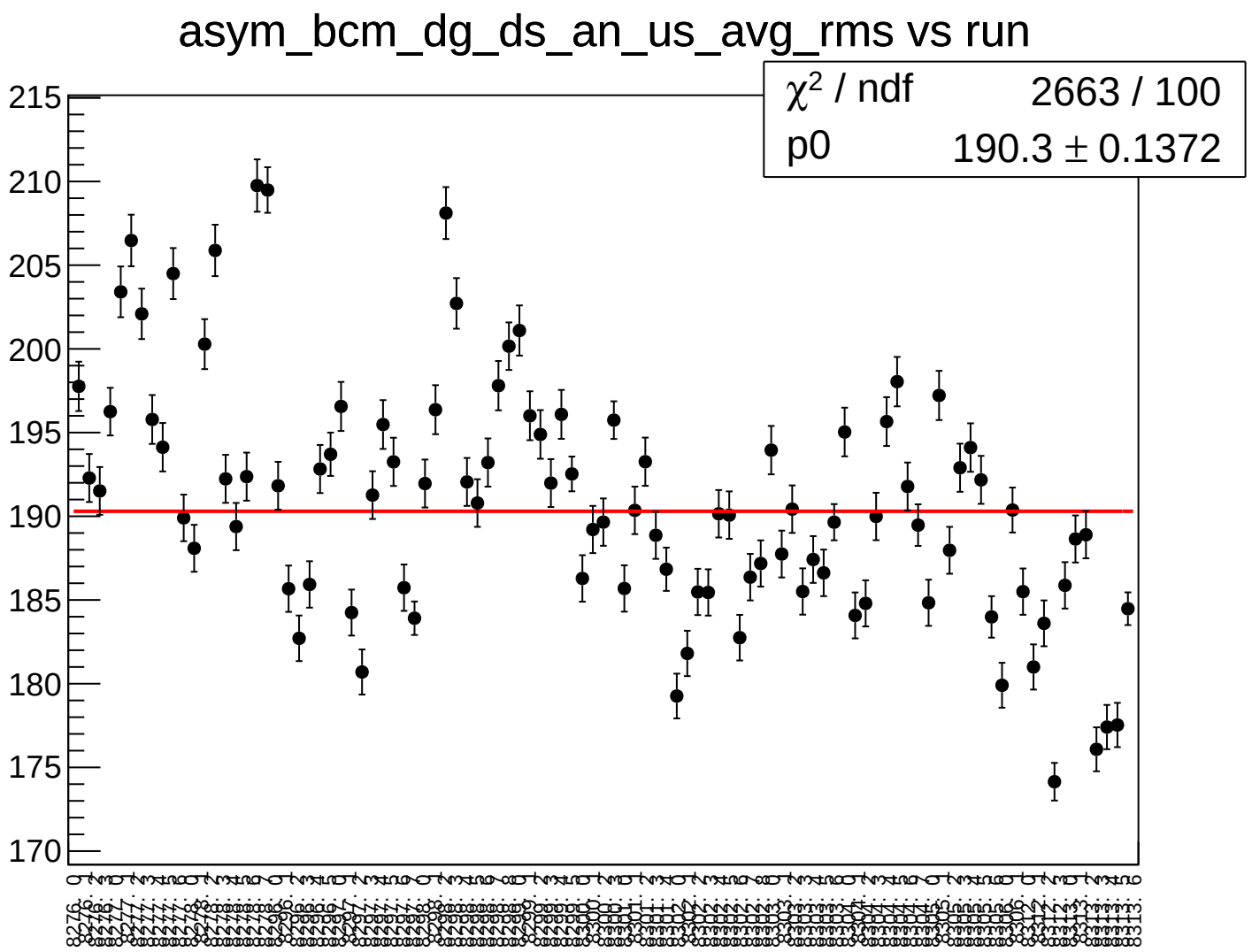

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 23.62 / 100
p0 –499 ± 194.1
4000
2000
0
–2000
–4000
pull
Entries 101
Mean –638.7
Std Dev 0
1.5
1
0.5
0
–0.5
–1
–1.5
pull1D
Entries 101
Mean 0.006183
Std Dev 0.4836
45
40
35
30
25
20
15
10
5
0
–8
–6
–4
–2
0
2
4
6
8

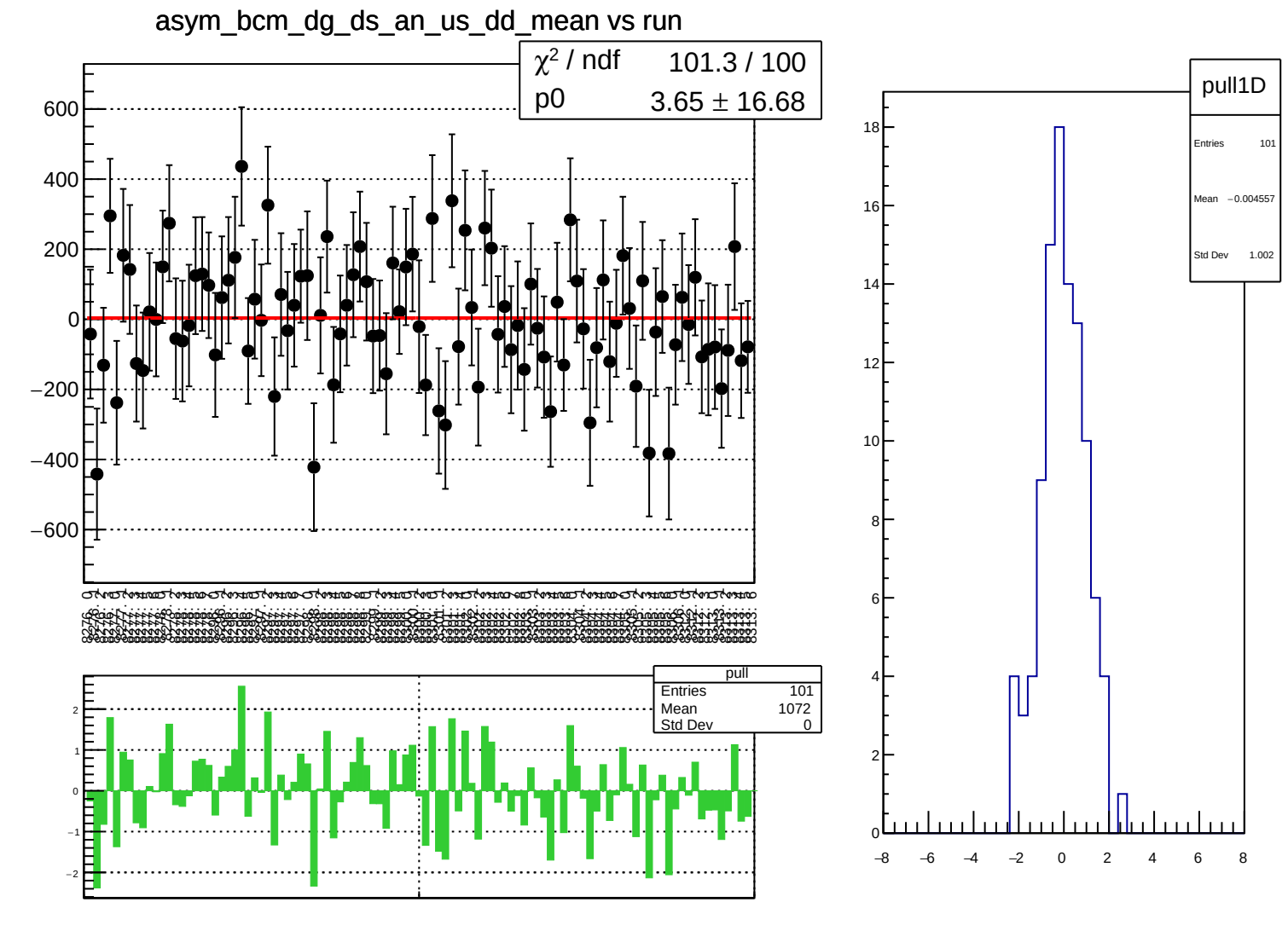

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 2644 / 100
p0 190.4 ± 0.1373
210
205
200
195
190
185
180
175
170

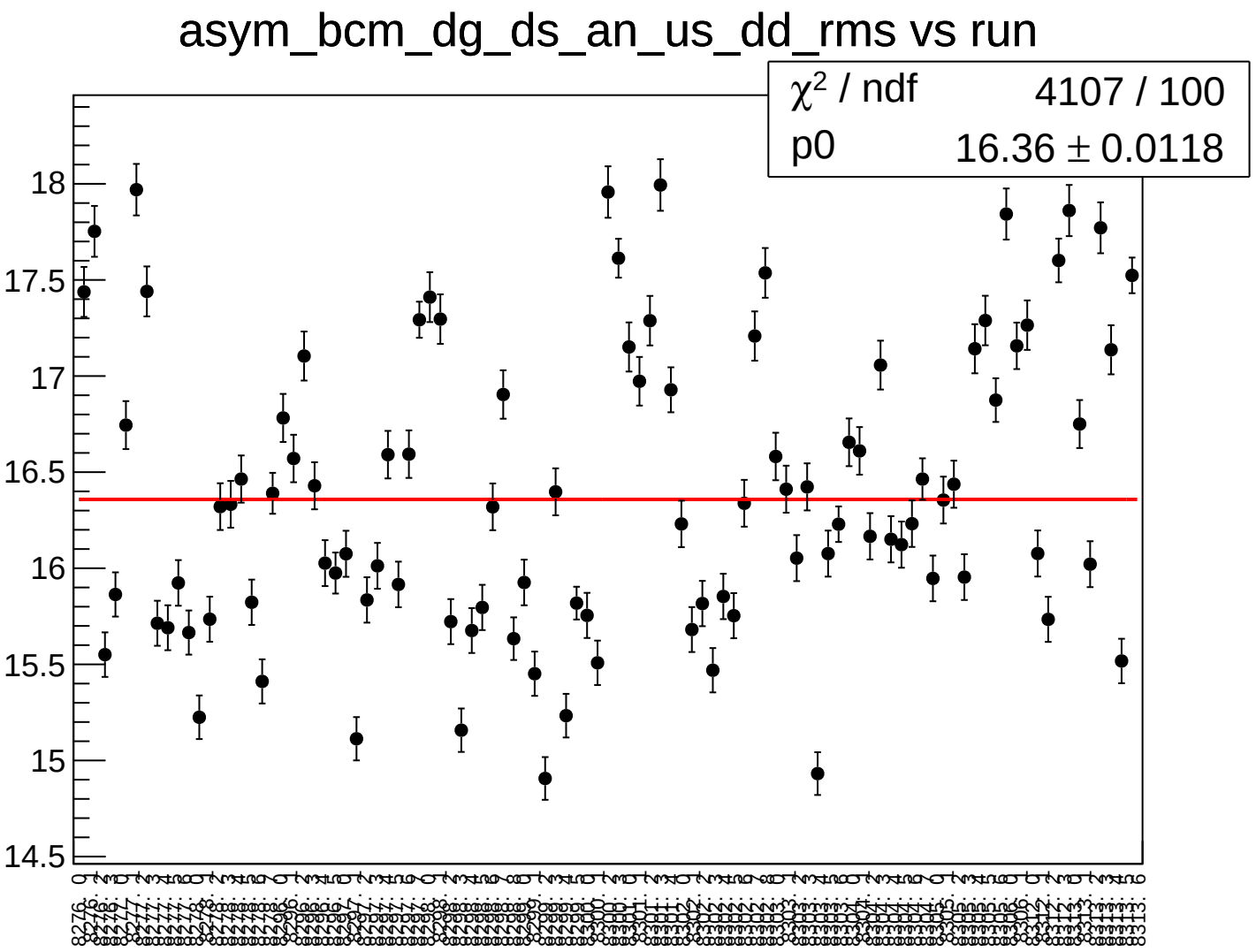

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 87.92 / 100
p0 −28.4 ± 22.05
pull
Entries 101
Mean 262.6
Std Dev 0
pull1D
Entries 101
Mean −0.01476
Std Dev 0.9329

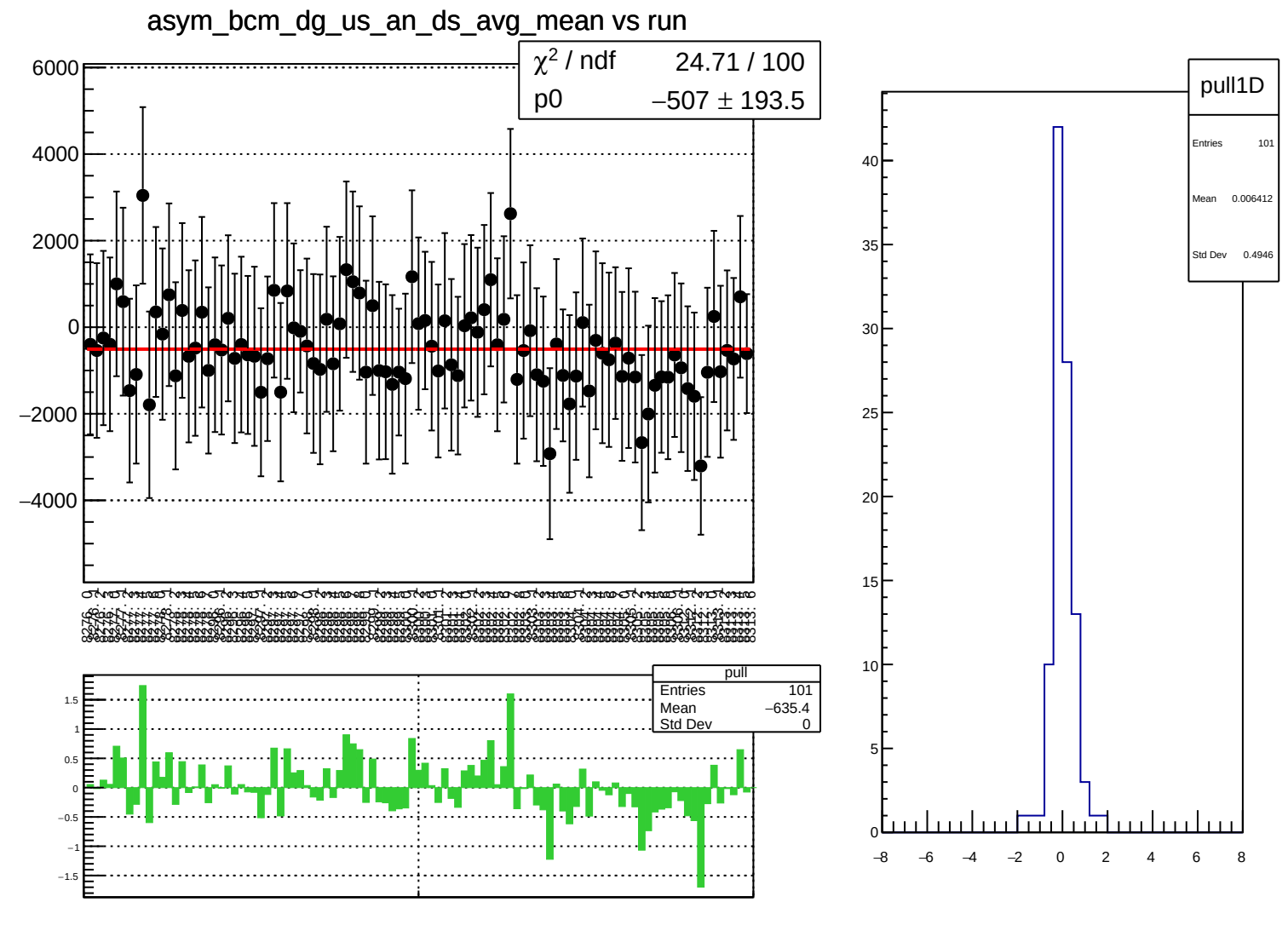

asym_bcm_dg_us_an_us_dd_rms vs run
χ² / ndf 1338 / 100
p0 21.64 ± 0.01559
23
22.5
22
21.5
21
20.5

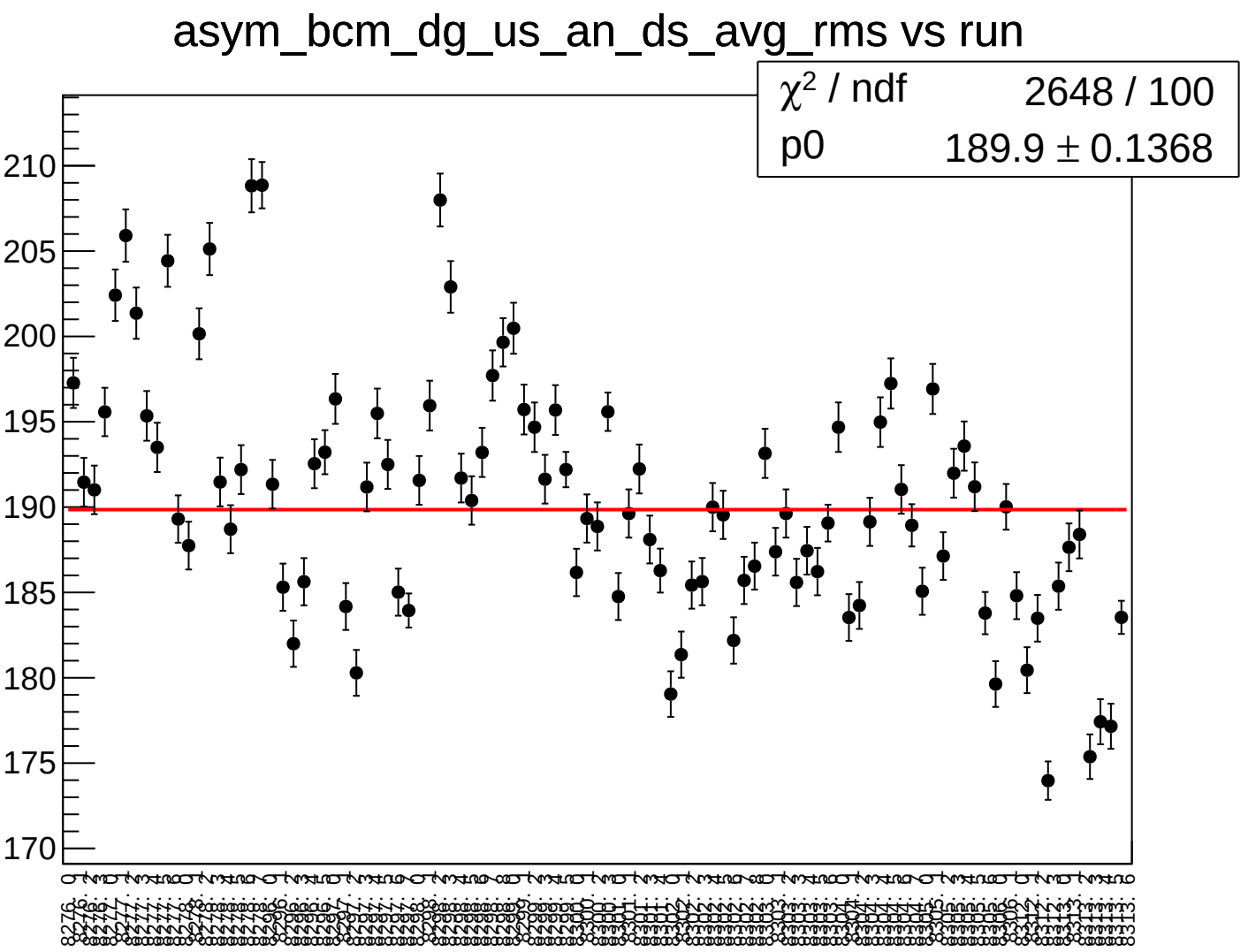

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 23.13 / 100
p0 −468.7 ± 194
4000
2000
0
−2000
−4000
pull
Entries 101
Mean −493.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 101
Mean 0.007893
Std Dev 0.4785
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

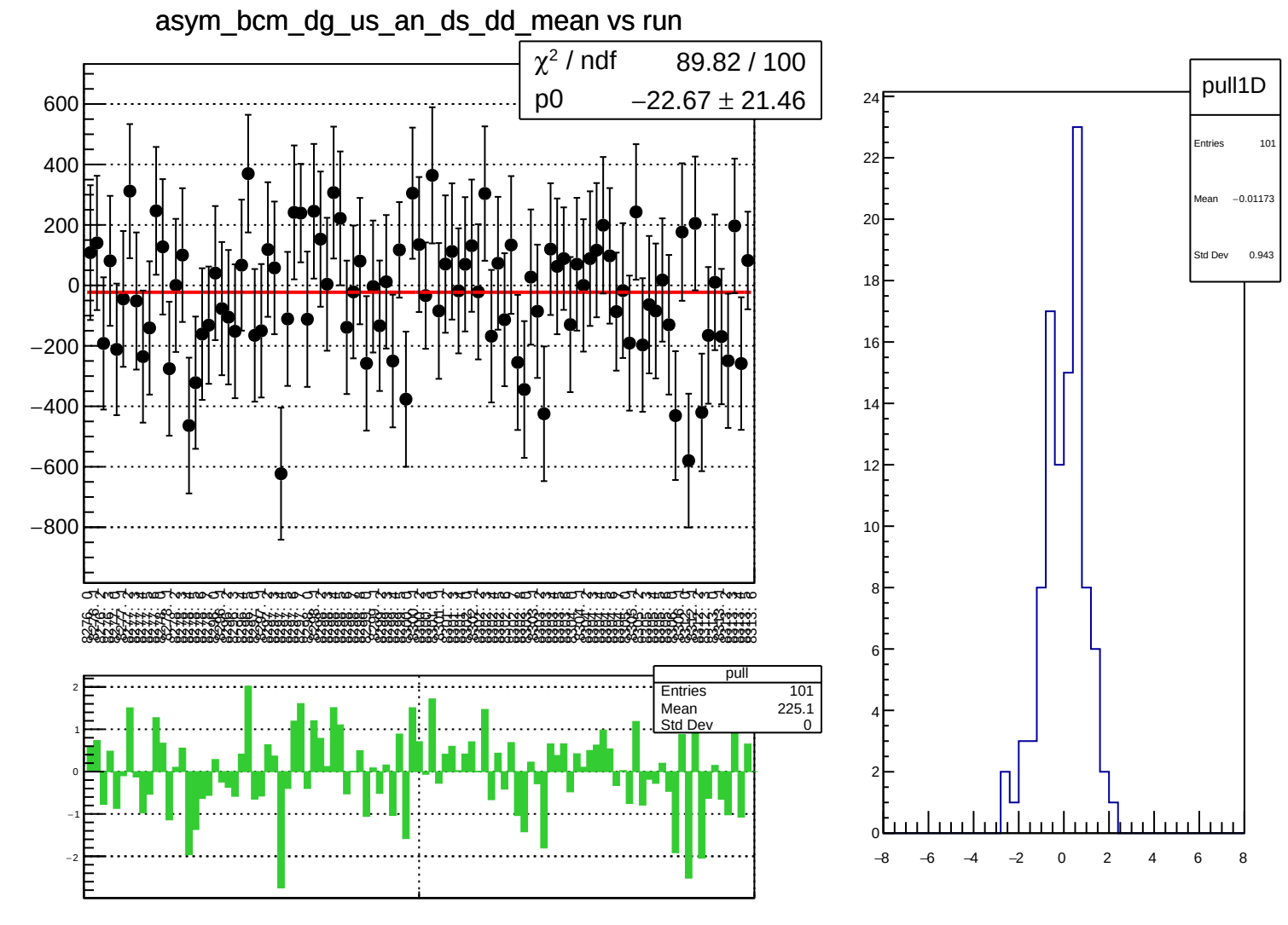

asym_bcm_dg_ds_an_us_avg_rms vs run
χ² / ndf 2663 / 100
p0 190.3 ± 0.1372
215
210
205
200
195
190
185
180
175
170

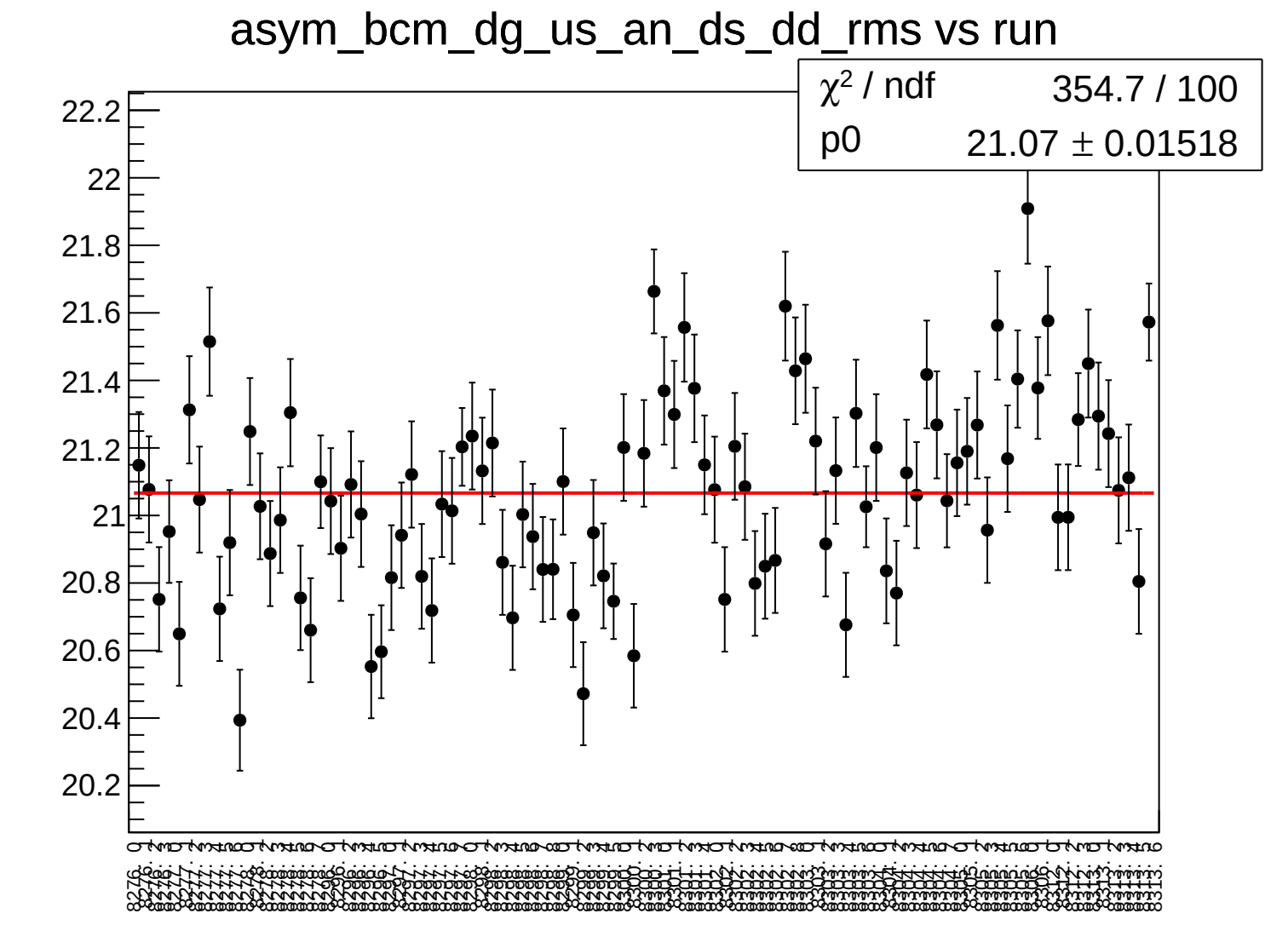

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 101.3 / 100
p0 3.65 ± 16.68
600
400
200
0
−200
−400
−600
pull
Entries 101
Mean 1072
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.004557
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

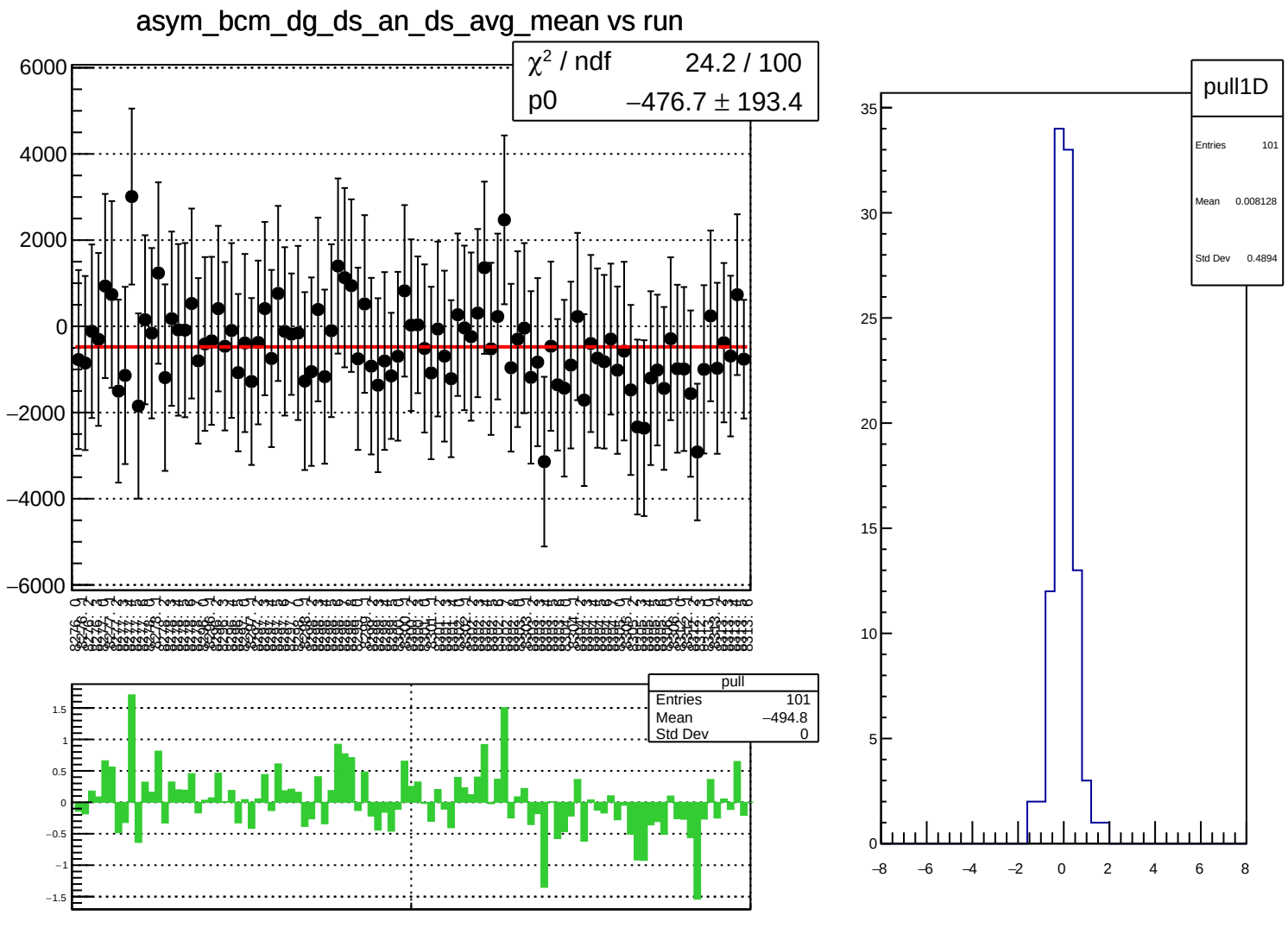

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 4107 / 100
p0 16.36 ± 0.0118
18
17.5
17
16.5
16
15.5
15
14.5

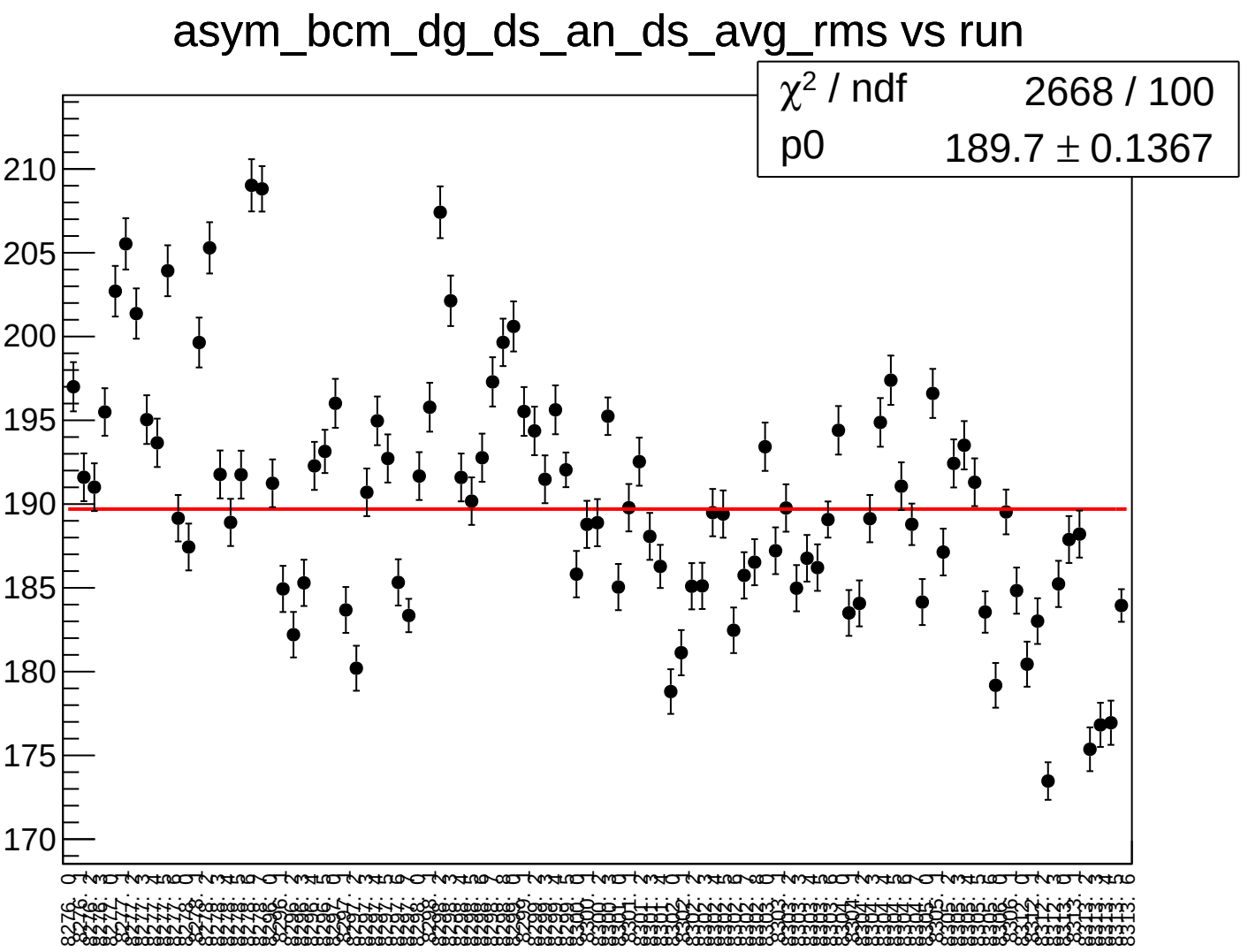

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 24.71 / 100
p0 −507 ± 193.5
6000
4000
2000
0
−2000
−4000
pull
Entries 101
Mean −635.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 101
Mean 0.006412
Std Dev 0.4946
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

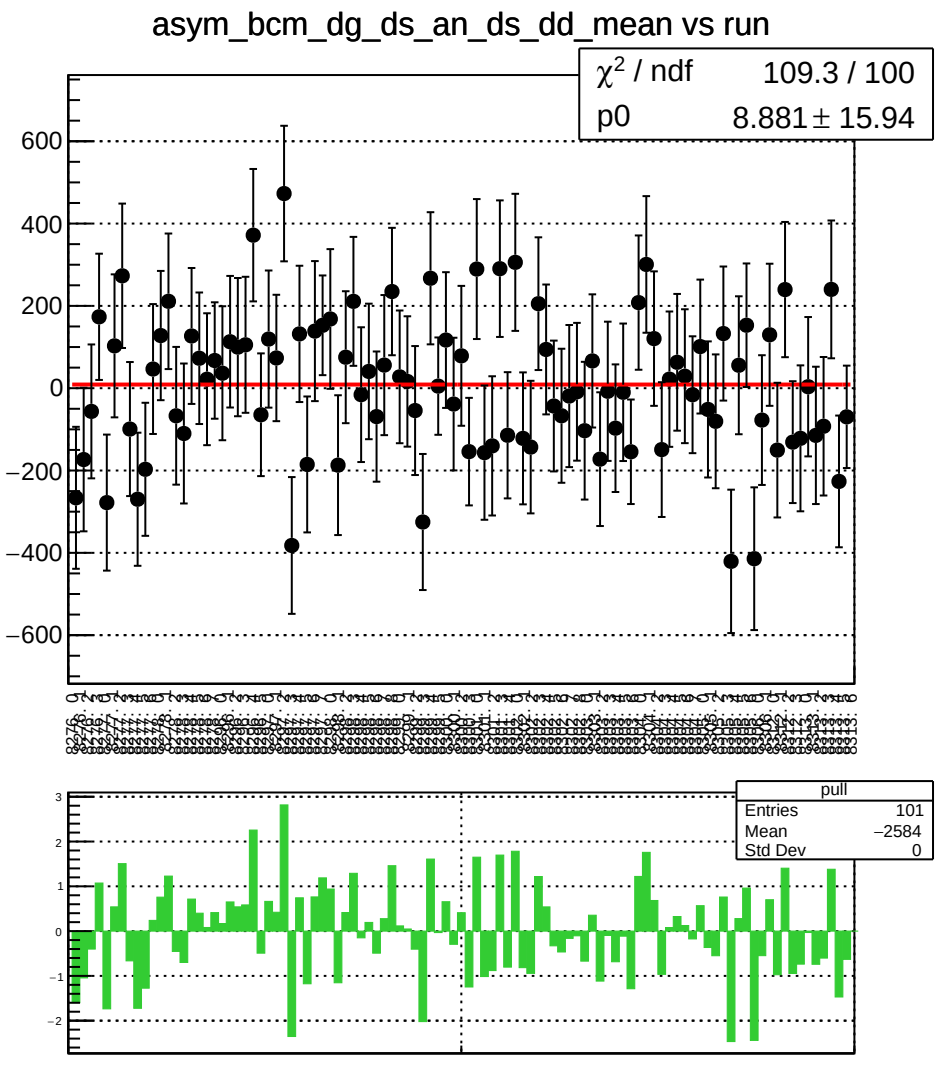

asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 2648 / 100
p0 189.9 ± 0.1368
210
205
200
195
190
185
180
175
170

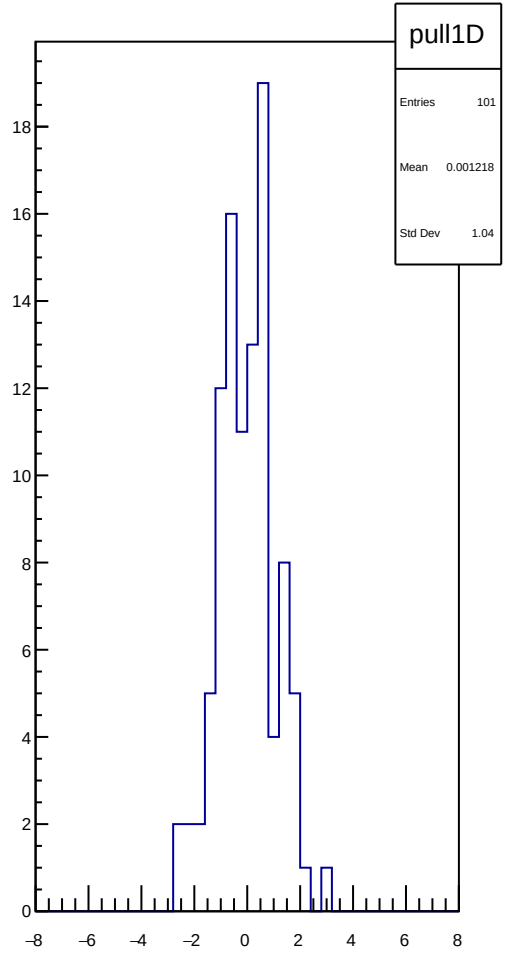

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 89.82 / 100
p0 −22.67 ± 21.46
pull
Entries 101
Mean 225.1
Std Dev 0
pull1D
Entries 101
Mean −0.01173
Std Dev 0.943

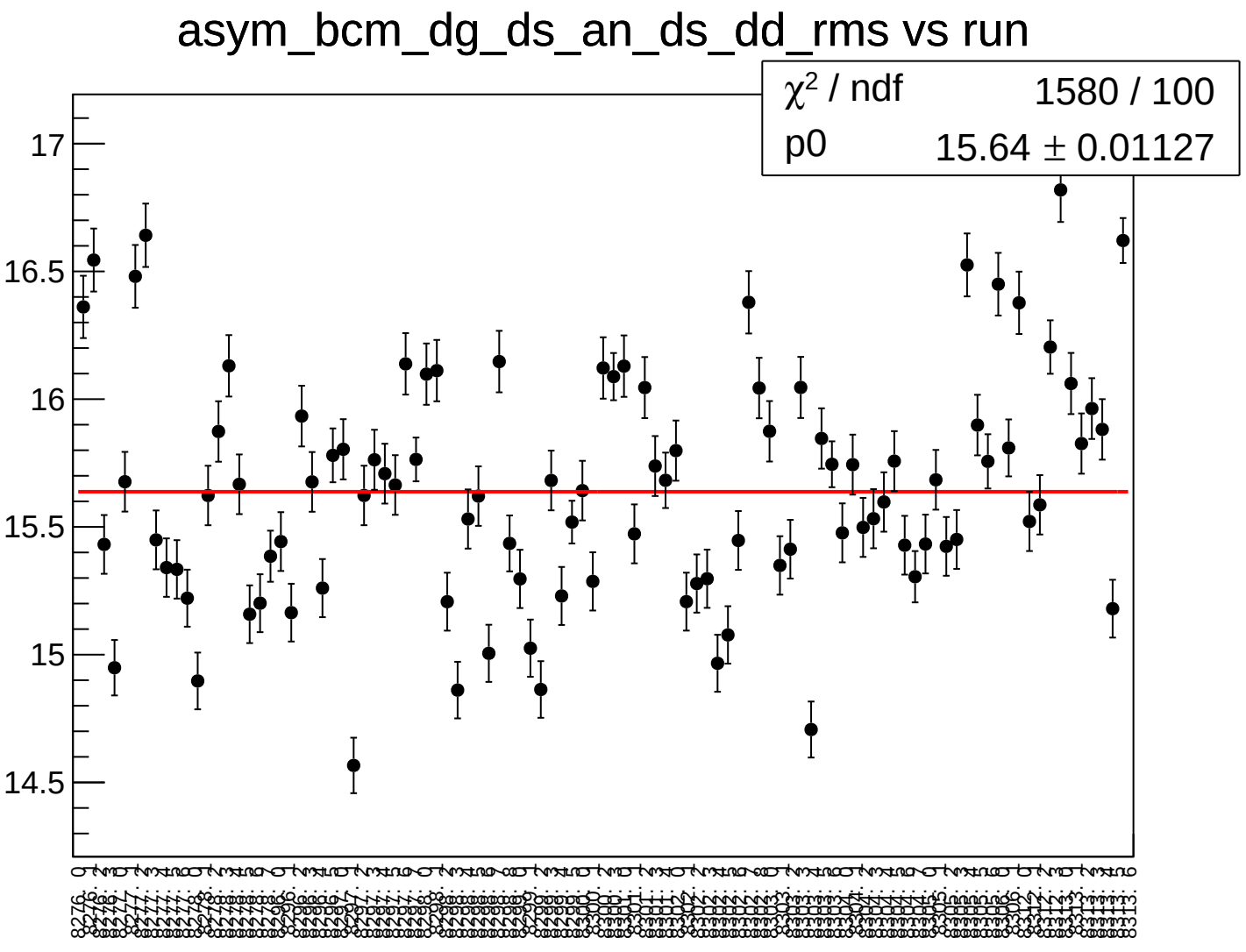

asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 354.7 / 100
p0 21.07 ± 0.01518
22.2
22
21.8
21.6
21.4
21.2
21
20.8
20.6
20.4
20.2

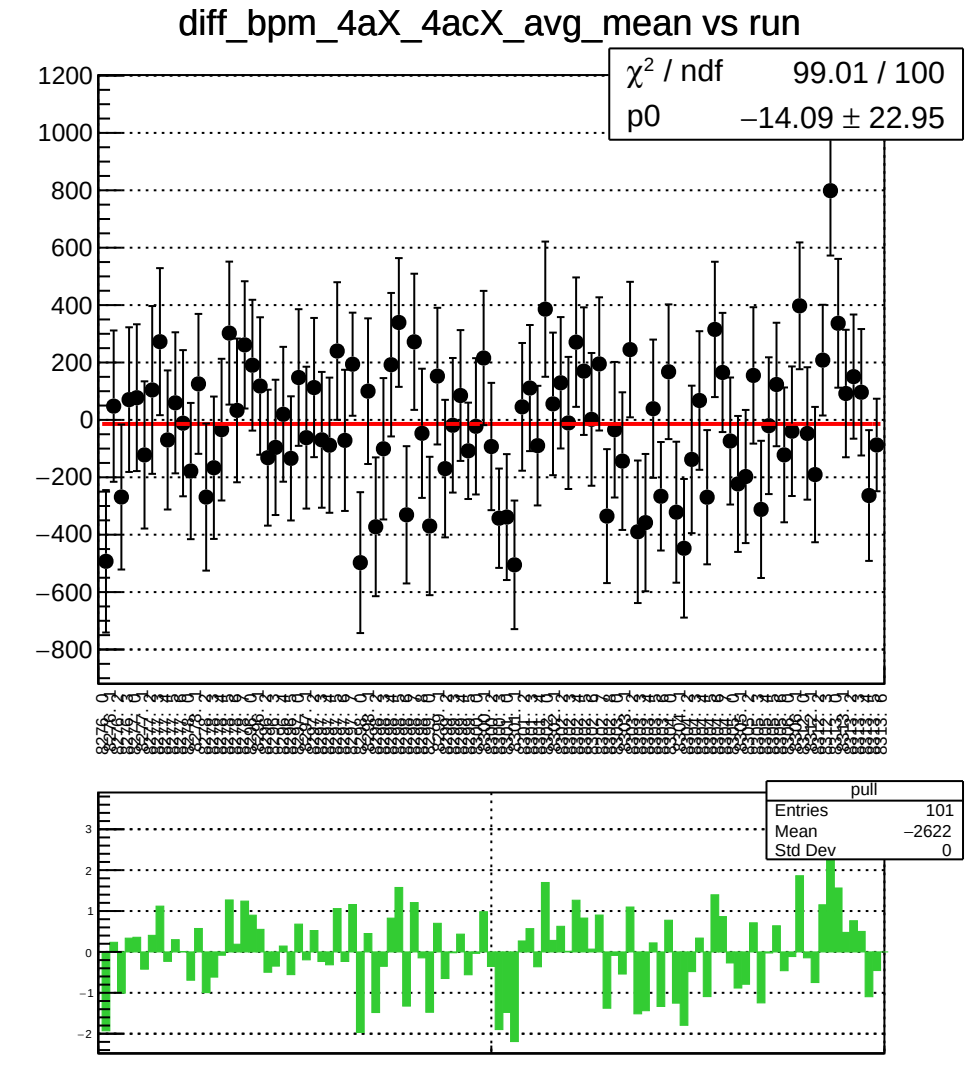

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 24.2 / 100
p0 −476.7 ± 193.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 101
Mean −494.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 101
Mean 0.008128
Std Dev 0.4894
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

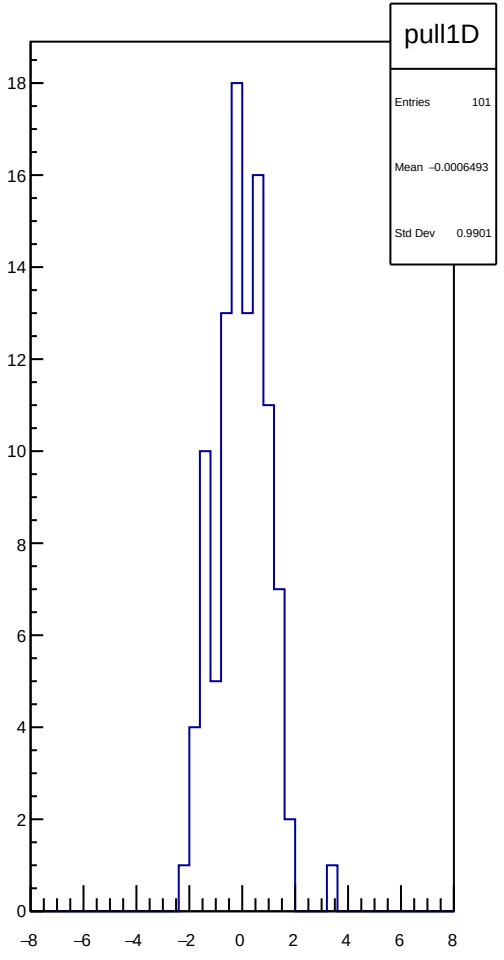

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ² / ndf 2668 / 100
p0 189.7 ± 0.1367
210
205
200
195
190
185
180
175
170

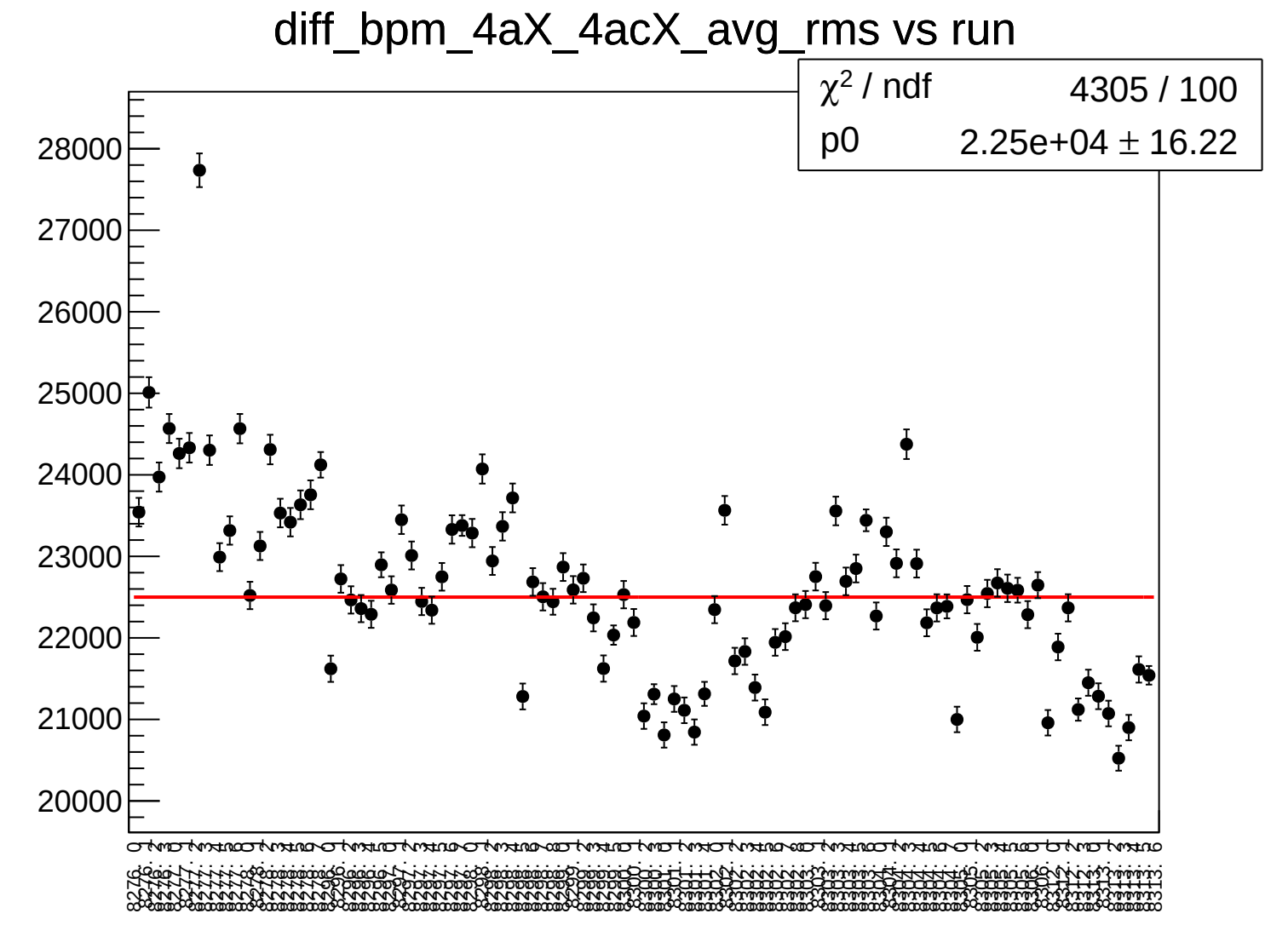

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 109.3 / 100
p0 8.881 ± 15.94
600
400
200
0
−200
−400
−600
pull
Entries 101
Mean −2584
Std Dev 0
3
2
1
0
−1
−2

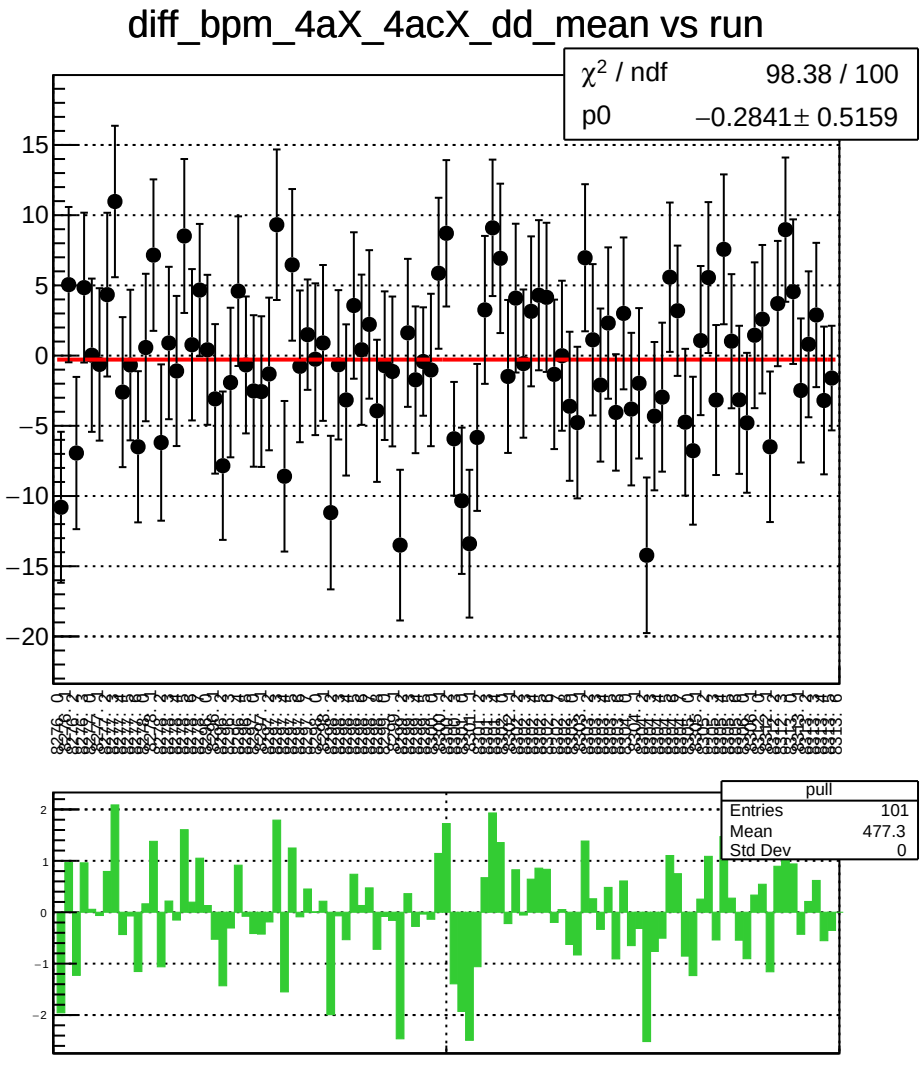

pull1D
Entries 101
Mean 0.001218
Std Dev 1.04
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

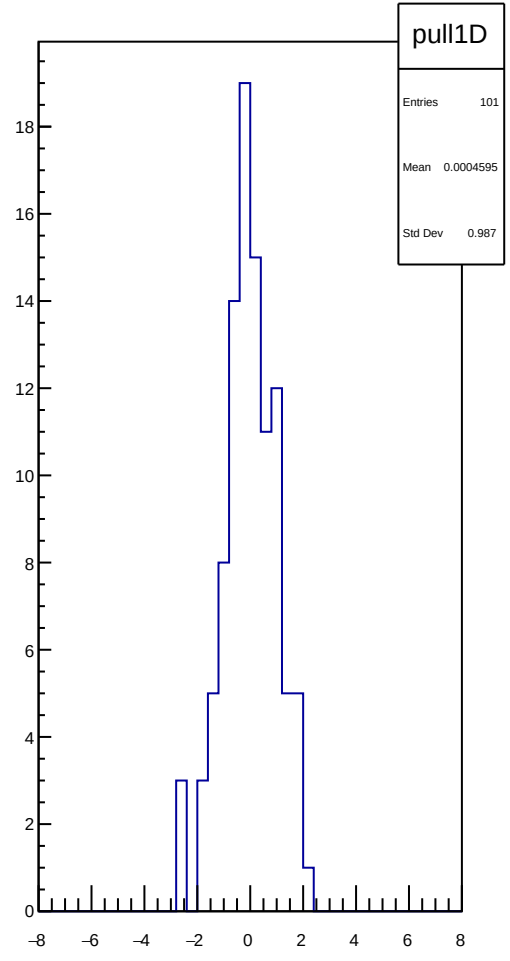

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 1580 / 100
p0 15.64 ± 0.01127
17
16.5
16
15.5
15
14.5

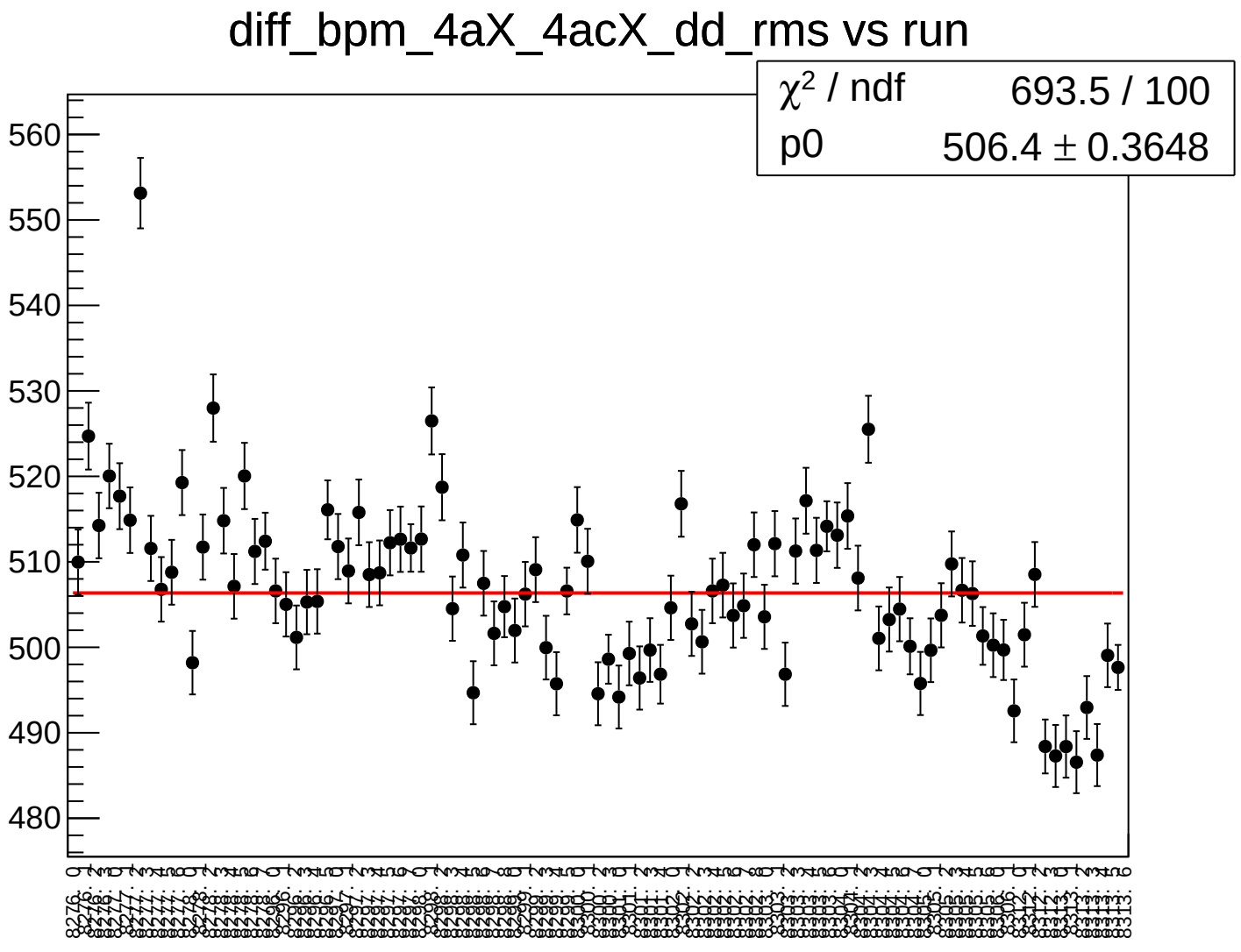

diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 99.01 / 100
p0 −14.09 ± 22.95
pull
Entries 101
Mean −2622
Std Dev 0

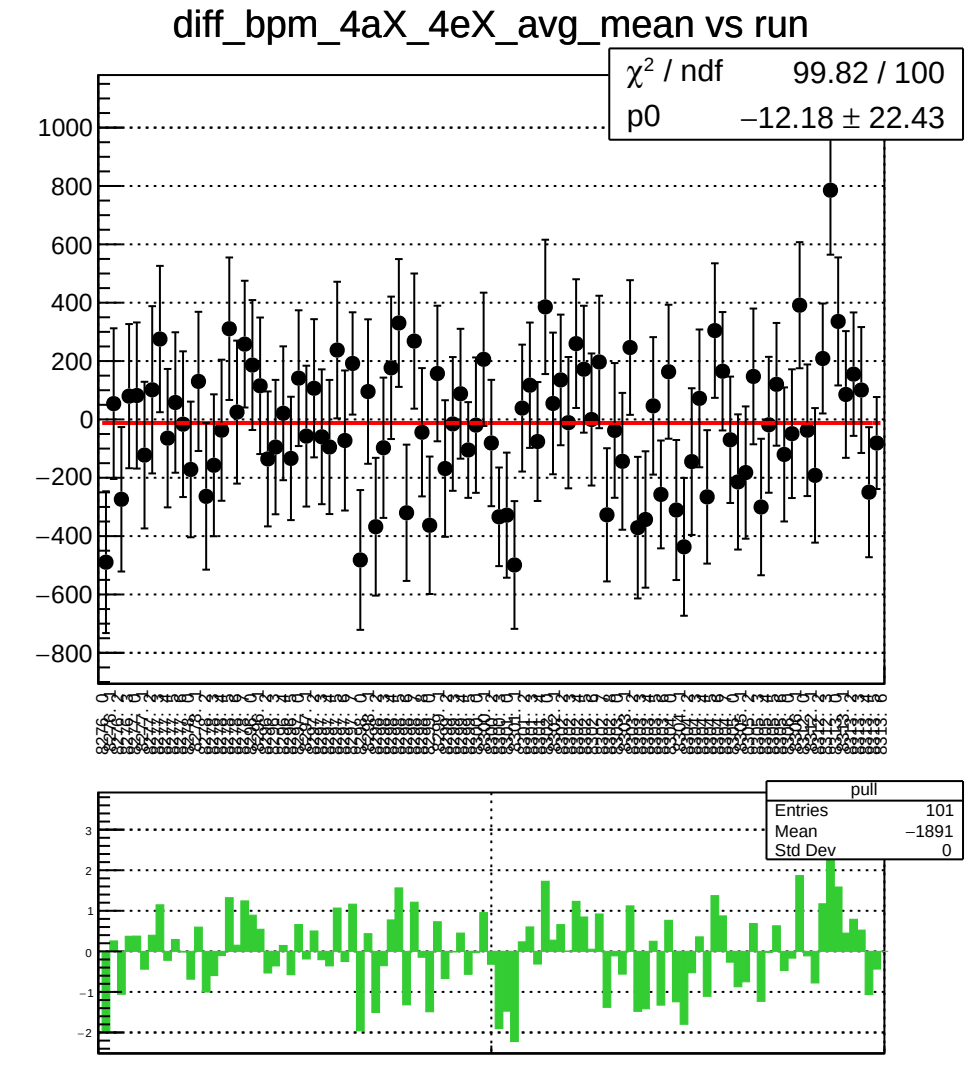

pull1D
Entries 101
Mean −0.0006493
Std Dev 0.9901

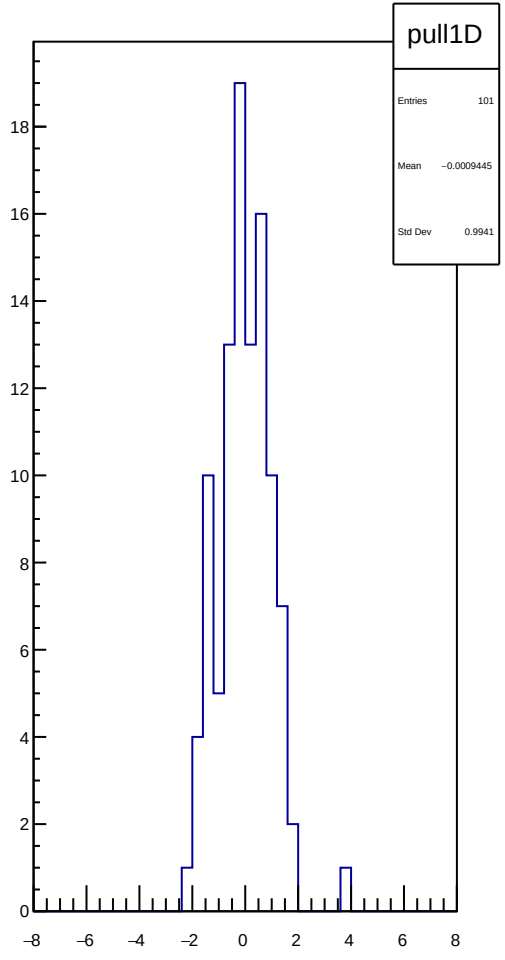

diff_bpm_4aX_4acX_avg_rms vs run
χ² / ndf 4305 / 100
p0 2.25e+04 ± 16.22
28000
27000
26000
25000
24000
23000
22000
21000
20000

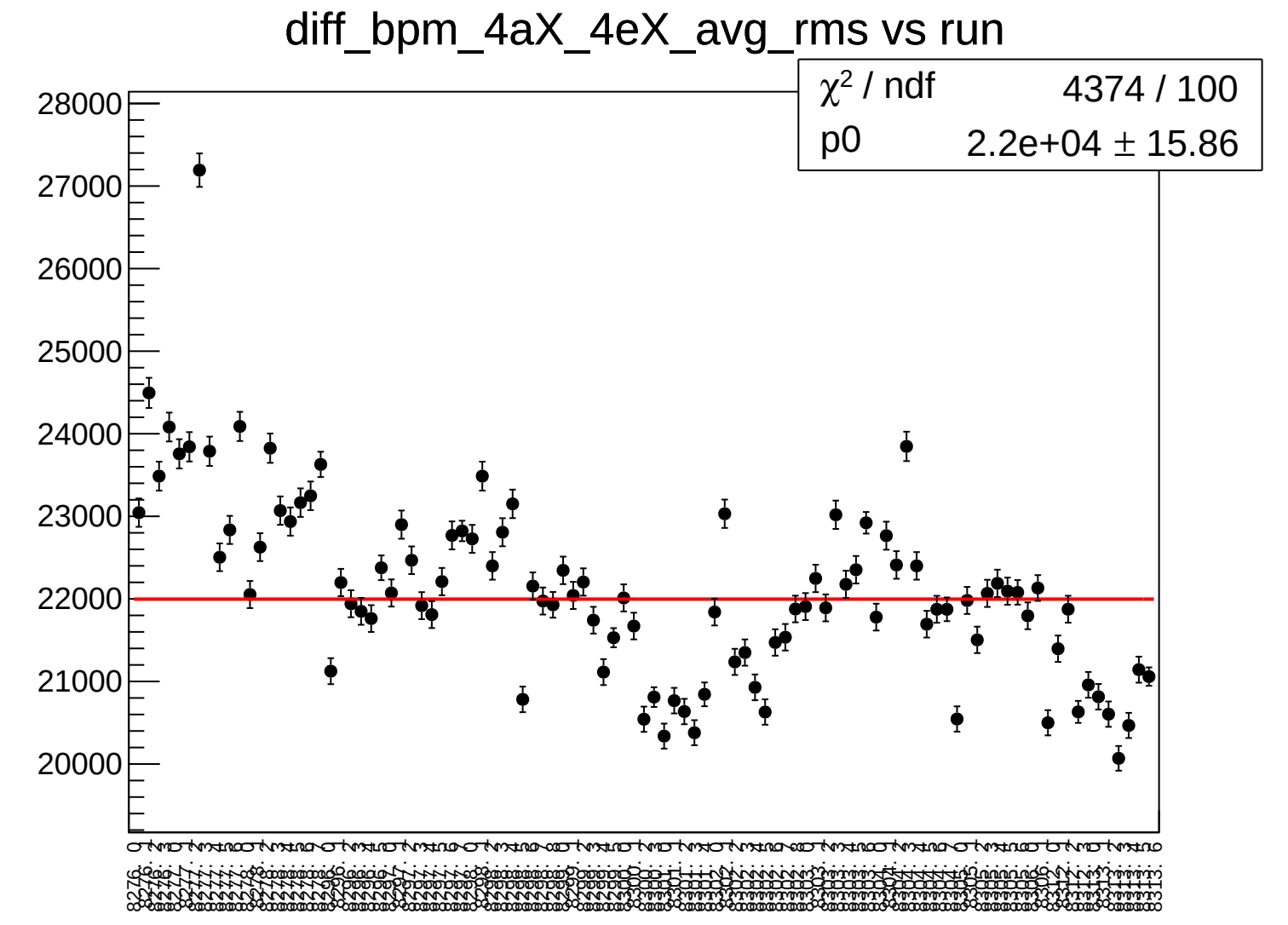

diff_bpm_4aX_4acX_dd_mean vs run
χ² / ndf 98.38 / 100
p0 −0.2841± 0.5159
pull
Entries 101
Mean 477.3
Std Dev 0

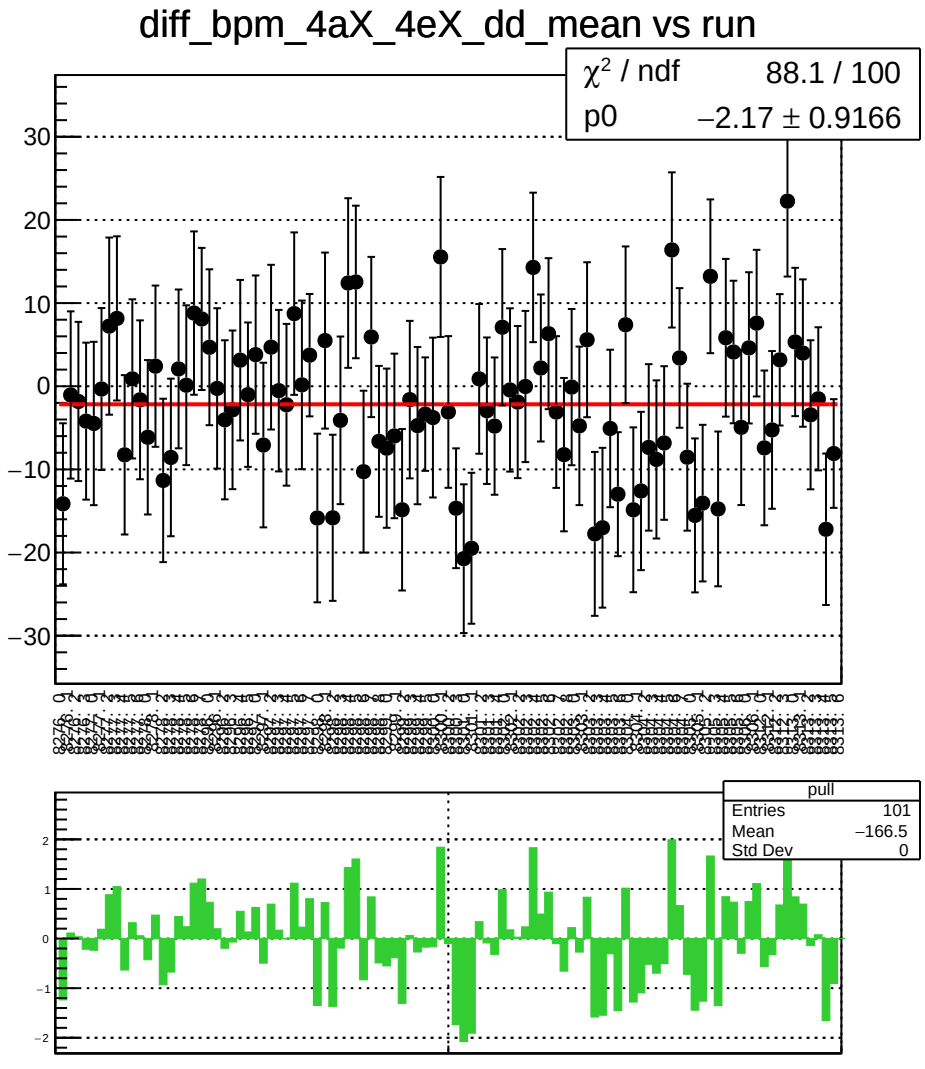

pull1D
Entries 101
Mean 0.0004595
Std Dev 0.987

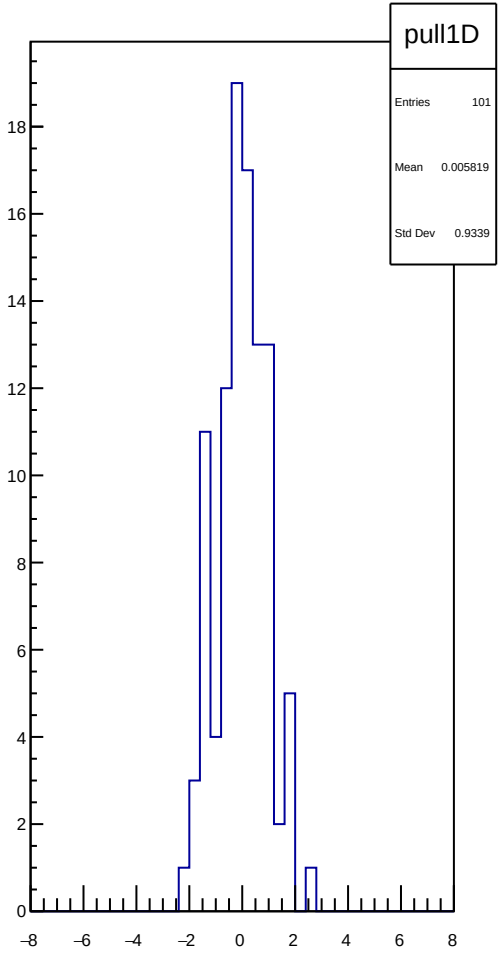

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 693.5 / 100
p0 506.4 ± 0.3648
560
550
540
530
520
510
500
490
480

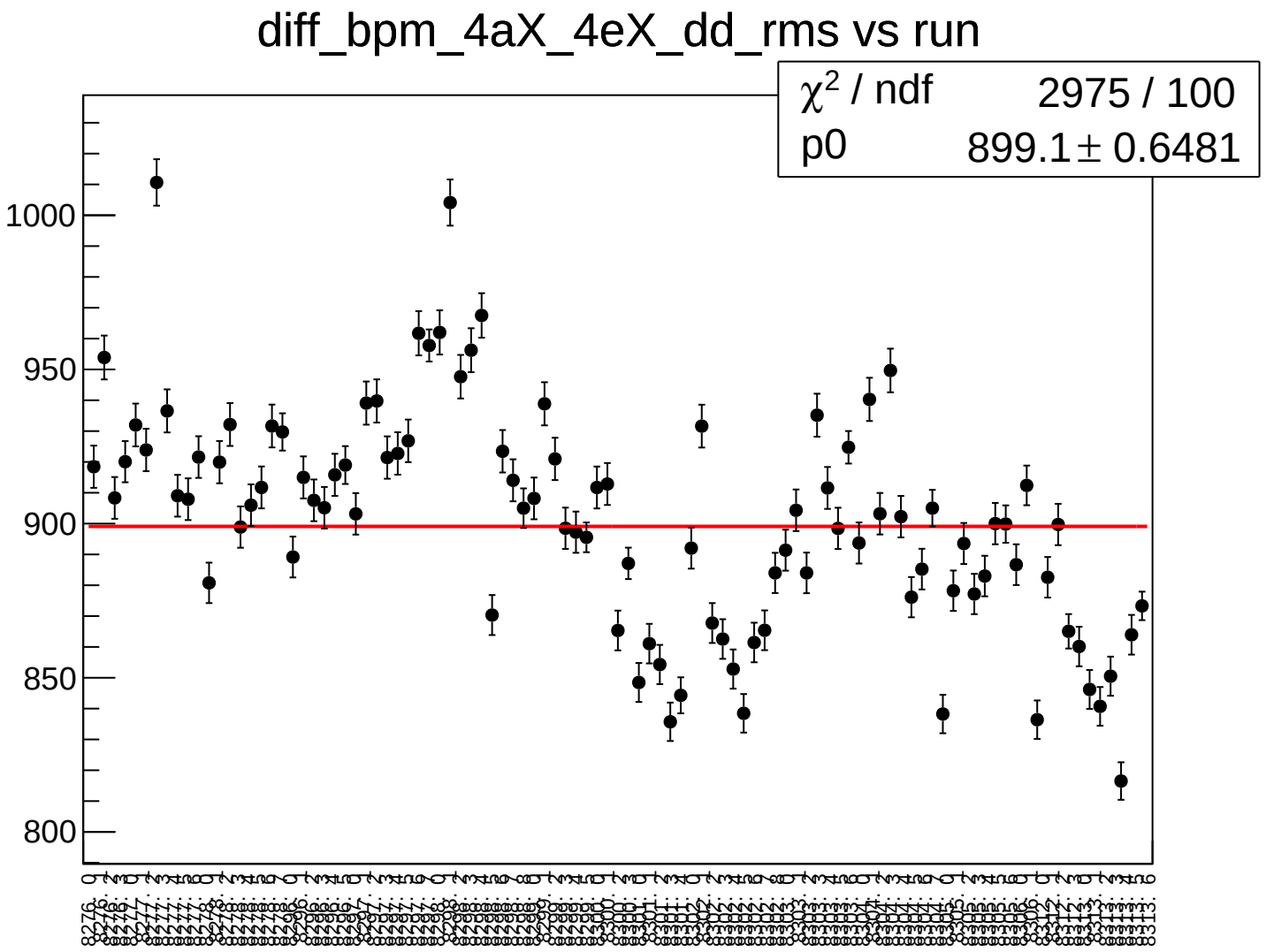

diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 99.82 / 100
p0 −12.18 ± 22.43
1000
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 101
Mean −1891
Std Dev 0
3
2
1
0
−1
−2

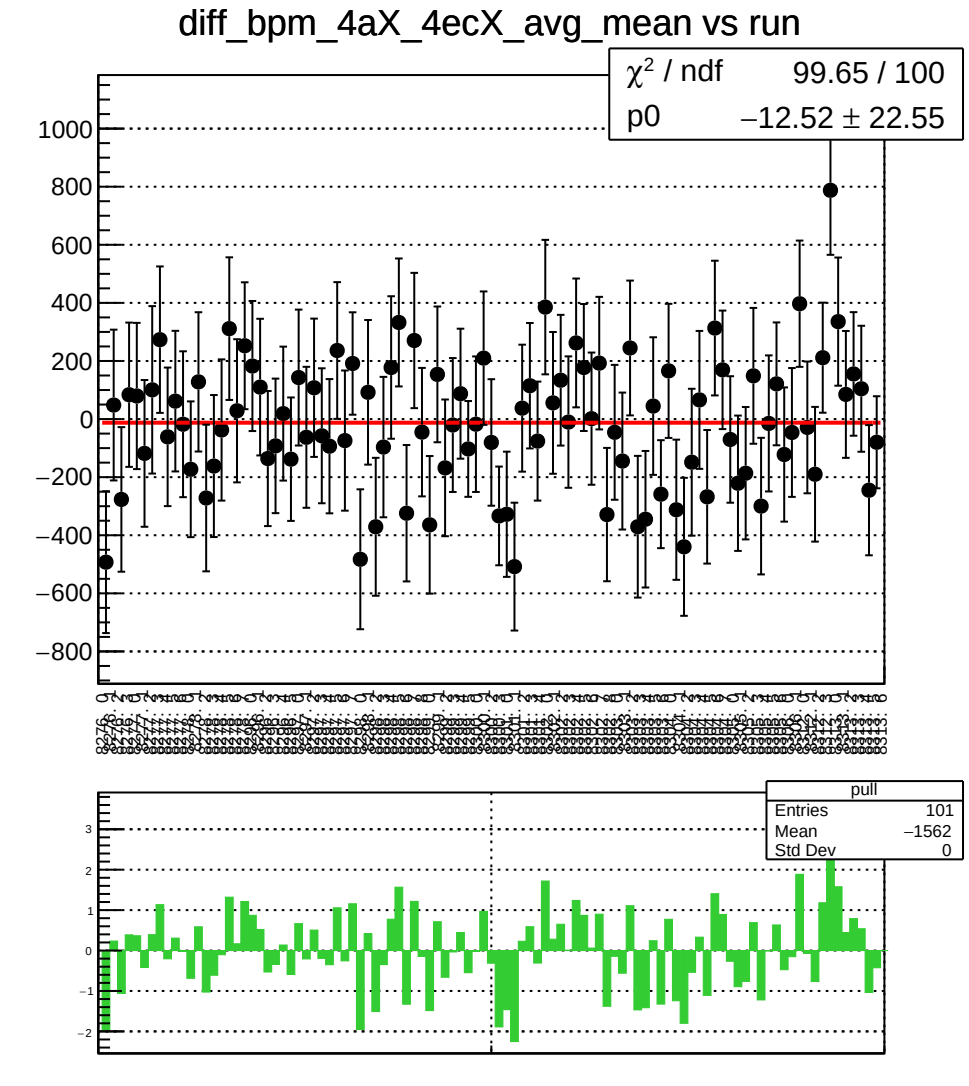

pull1D
Entries 101
Mean −0.0009445
Std Dev 0.9941
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

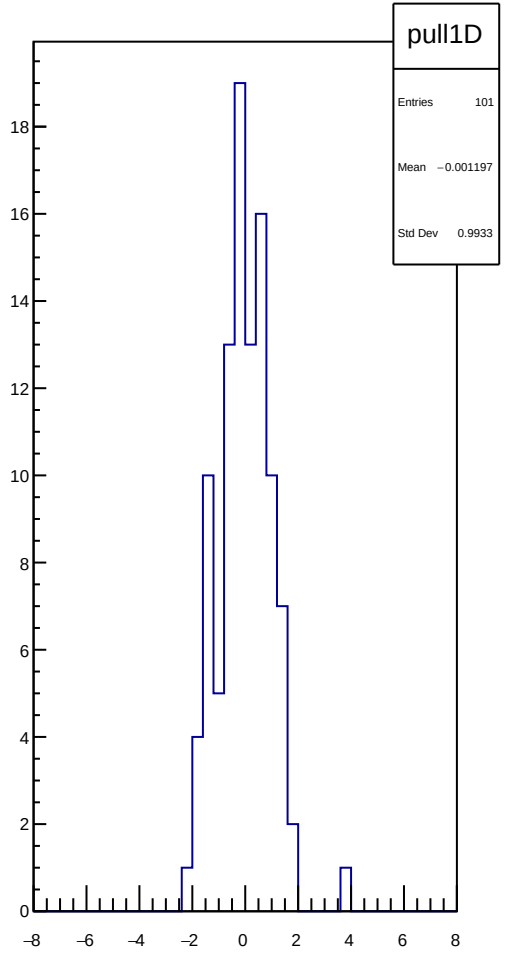

diff_bpm_4aX_4eX_avg_rms vs run
χ² / ndf 4374 / 100
p0 2.2e+04 ± 15.86
28000
27000
26000
25000
24000
23000
22000
21000
20000

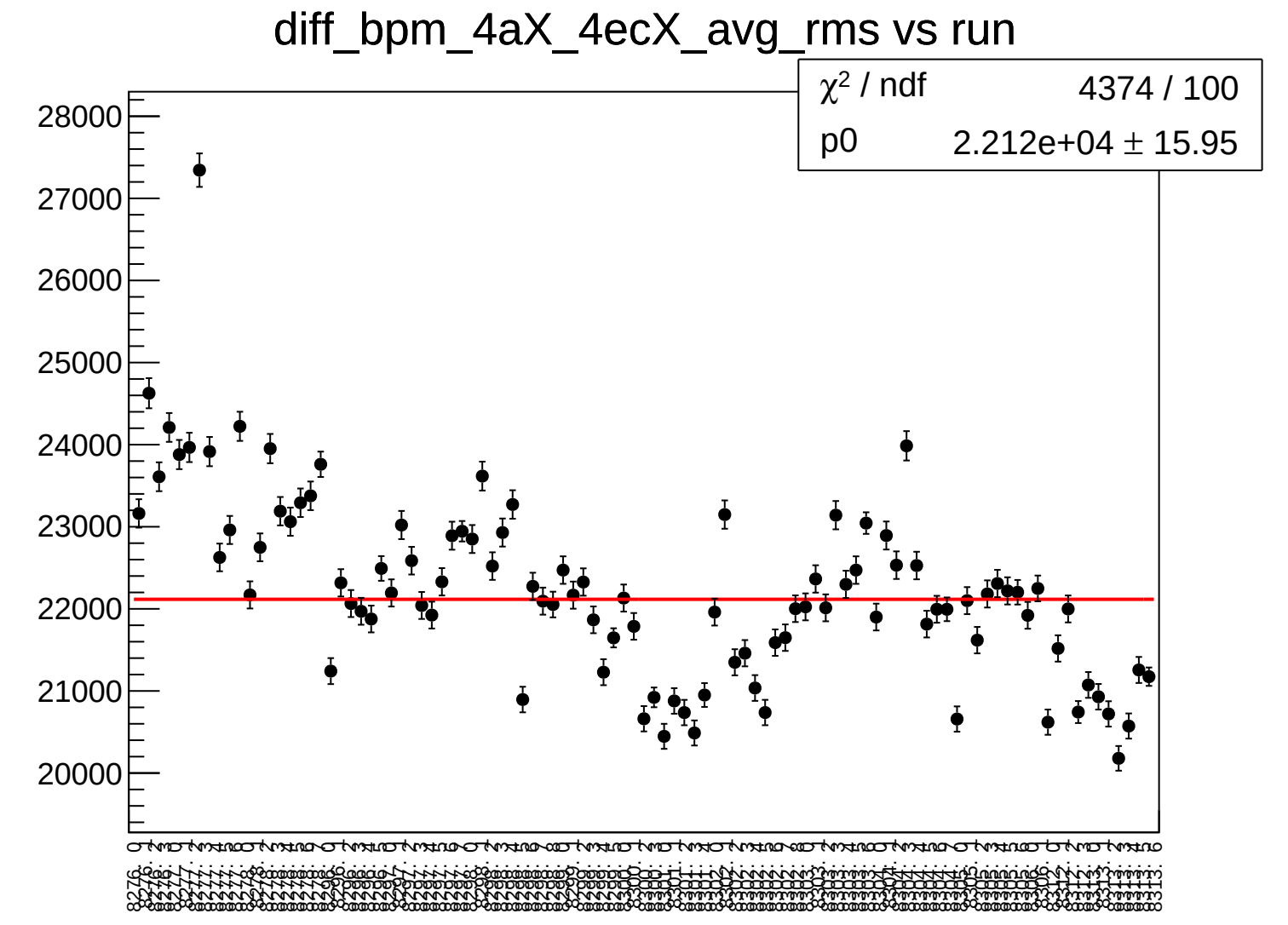

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 88.1 / 100
p0 −2.17 ± 0.9166
pull
Entries 101
Mean −166.5
Std Dev 0

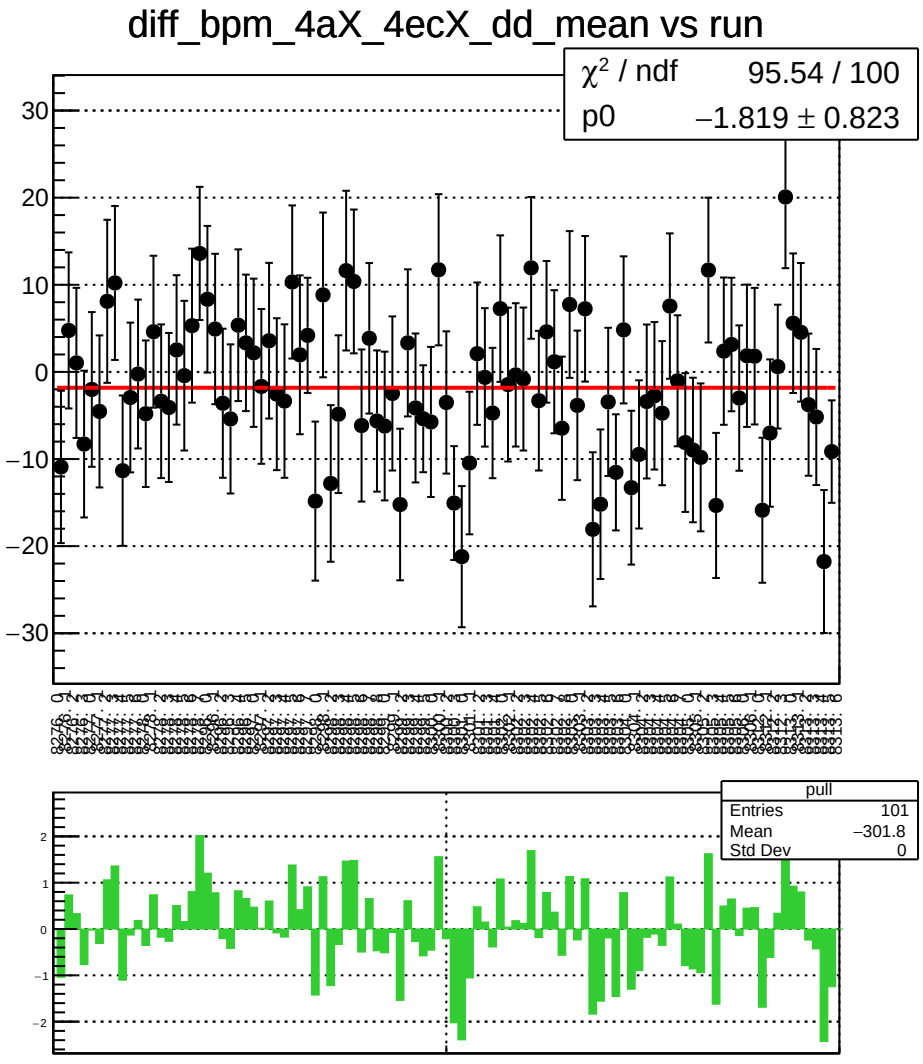

pull1D
Entries 101
Mean 0.005819
Std Dev 0.9339

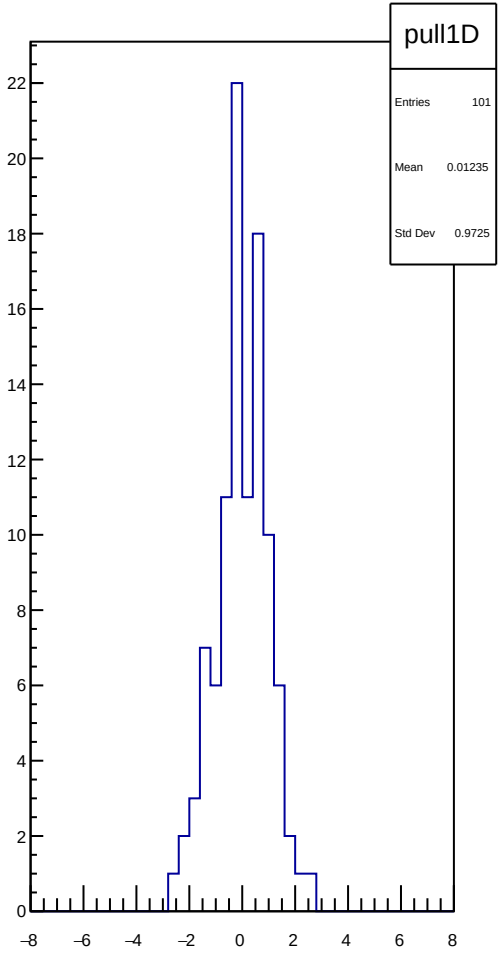

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 2975 / 100
p0 899.1 ± 0.6481
1000
950
900
850
800

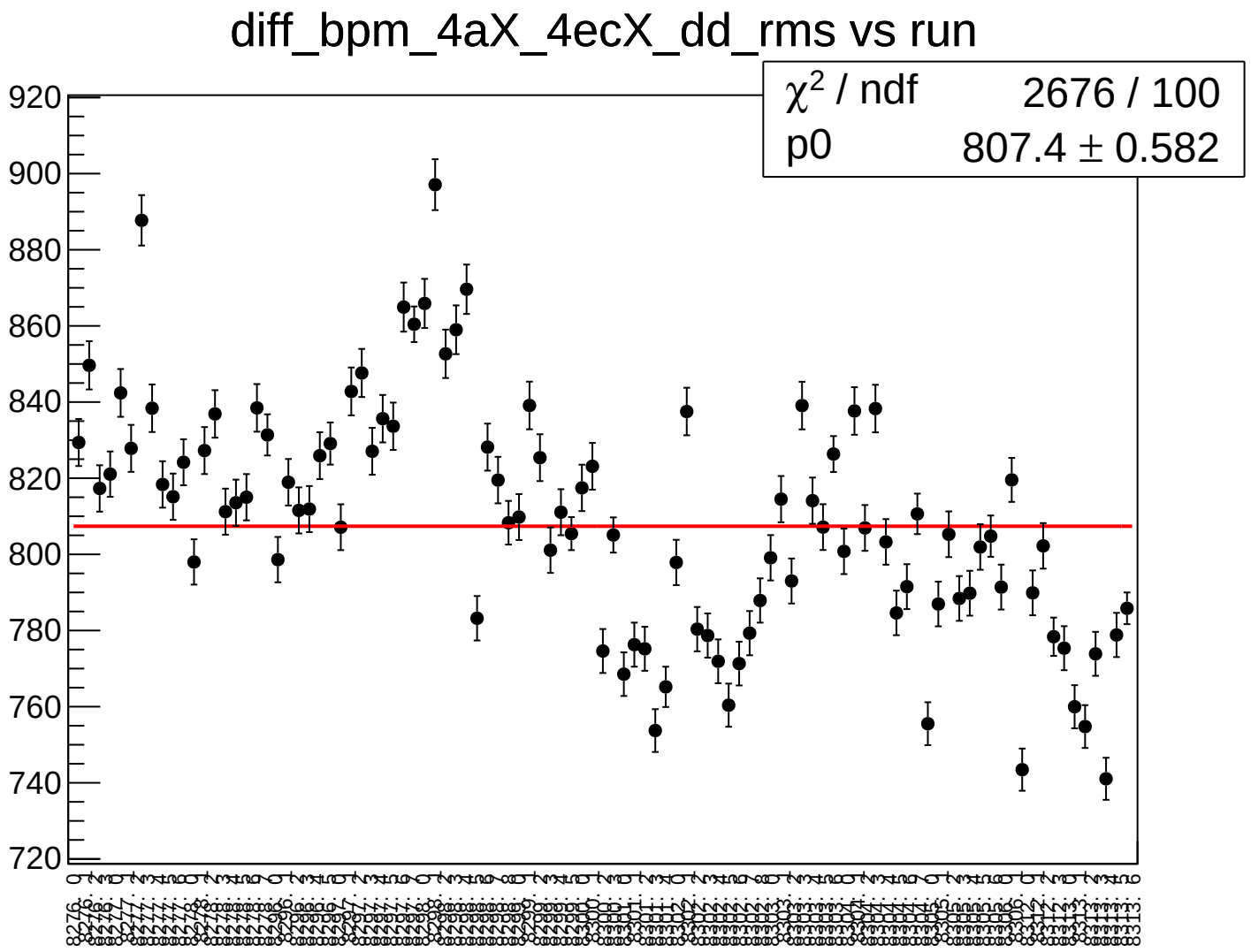

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 99.65 / 100
p0 −12.52 ± 22.55
1000
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 101
Mean −1562
Std Dev 0
3
2
1
0
−1
−2

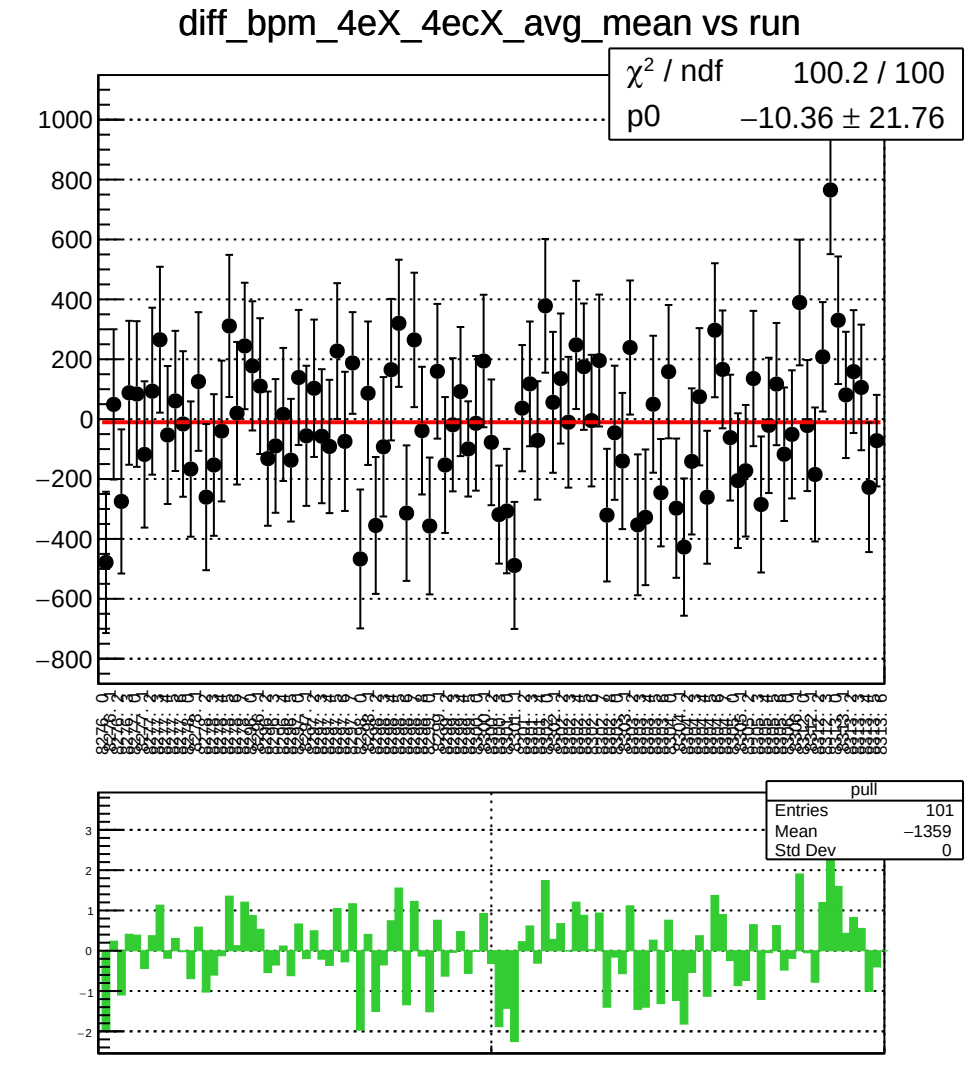

pull1D
Entries 101
Mean −0.001197
Std Dev 0.9933
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

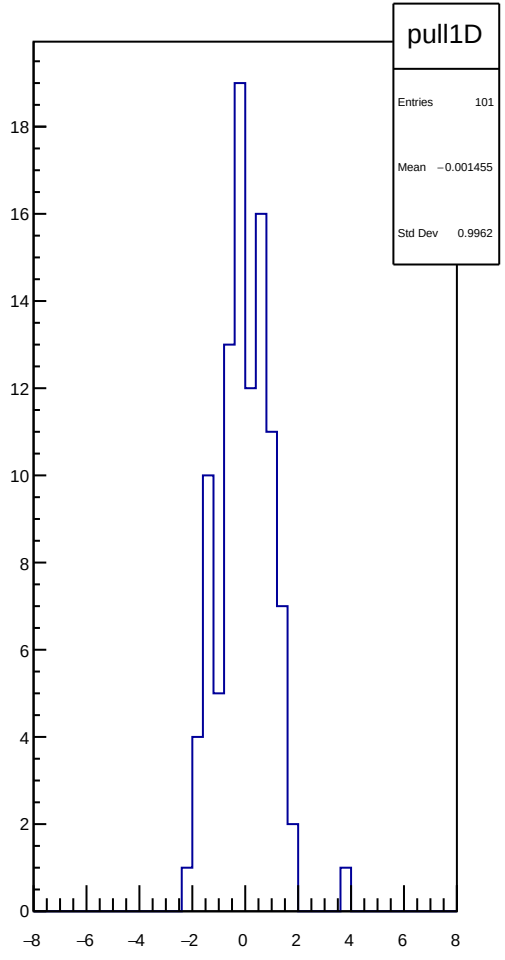

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 4374 / 100
p0 2.212e+04 ± 15.95
28000
27000
26000
25000
24000
23000
22000
21000
20000

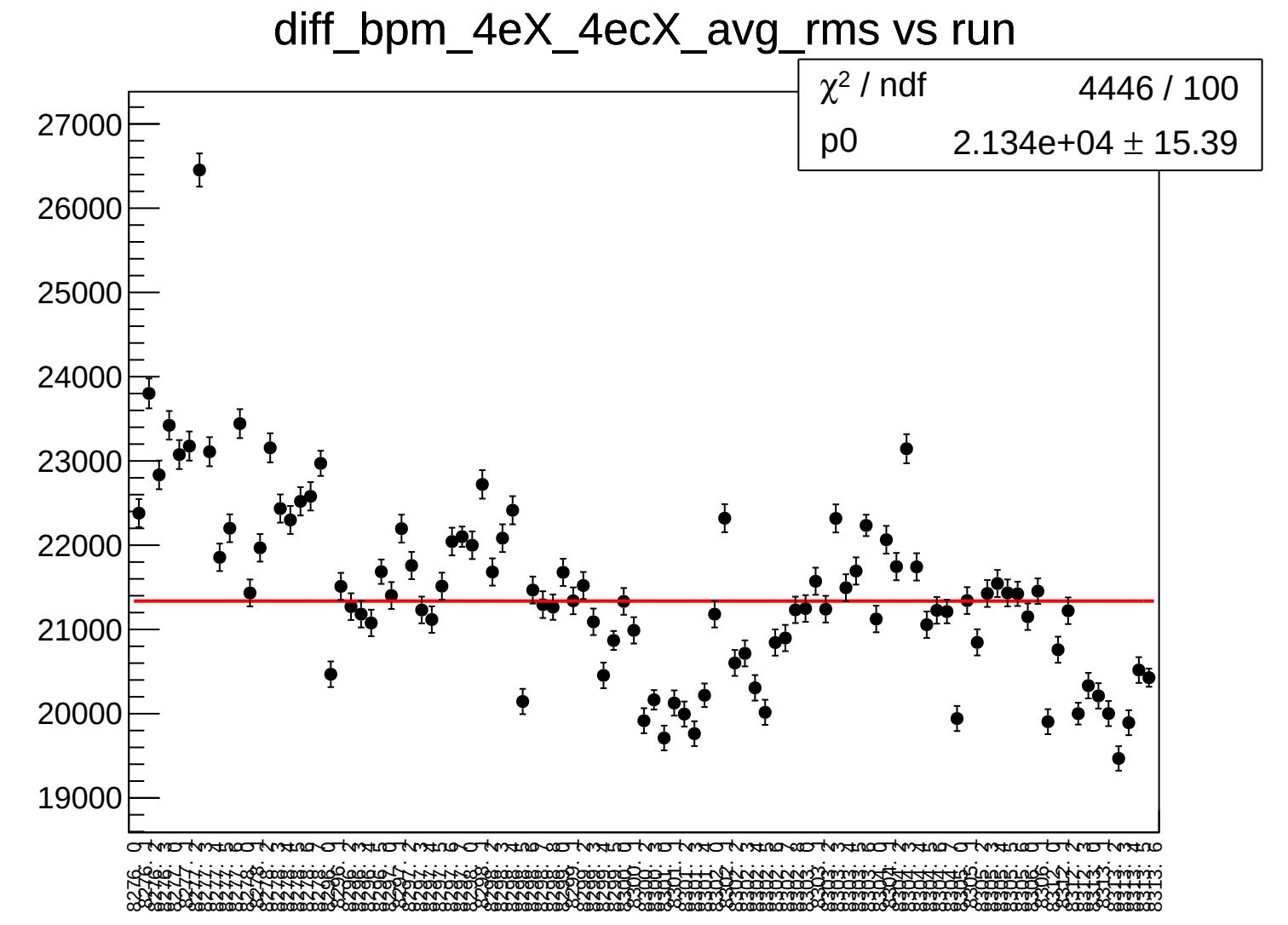

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 95.54 / 100
p0 −1.819 ± 0.823
pull
Entries 101
Mean −301.8
Std Dev 0

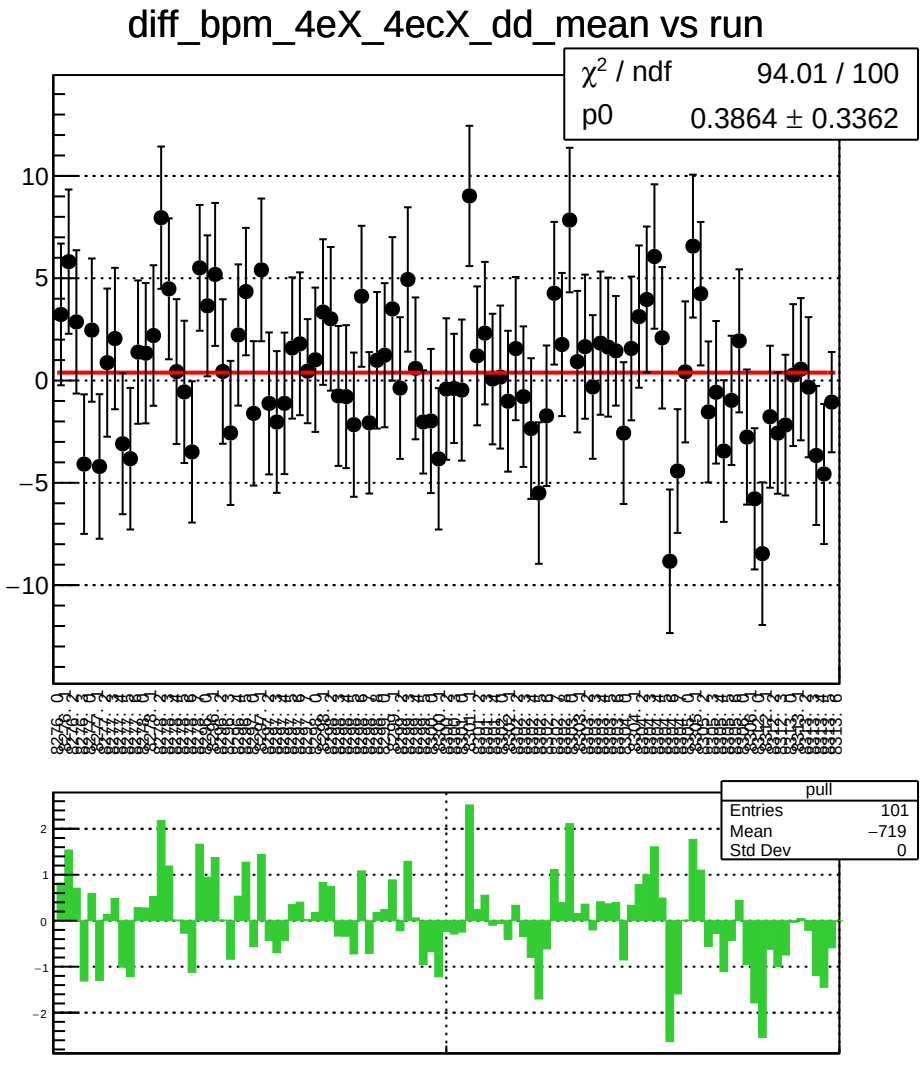

pull1D
Entries 101
Mean 0.01235
Std Dev 0.9725

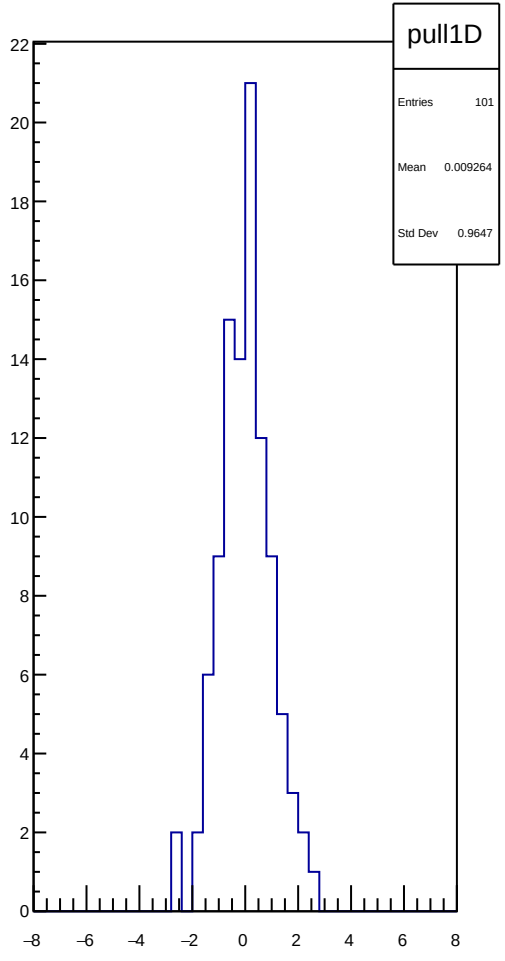

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 2676 / 100
p0 807.4 ± 0.582
920
900
880
860
840
820
800
780
760
740
720

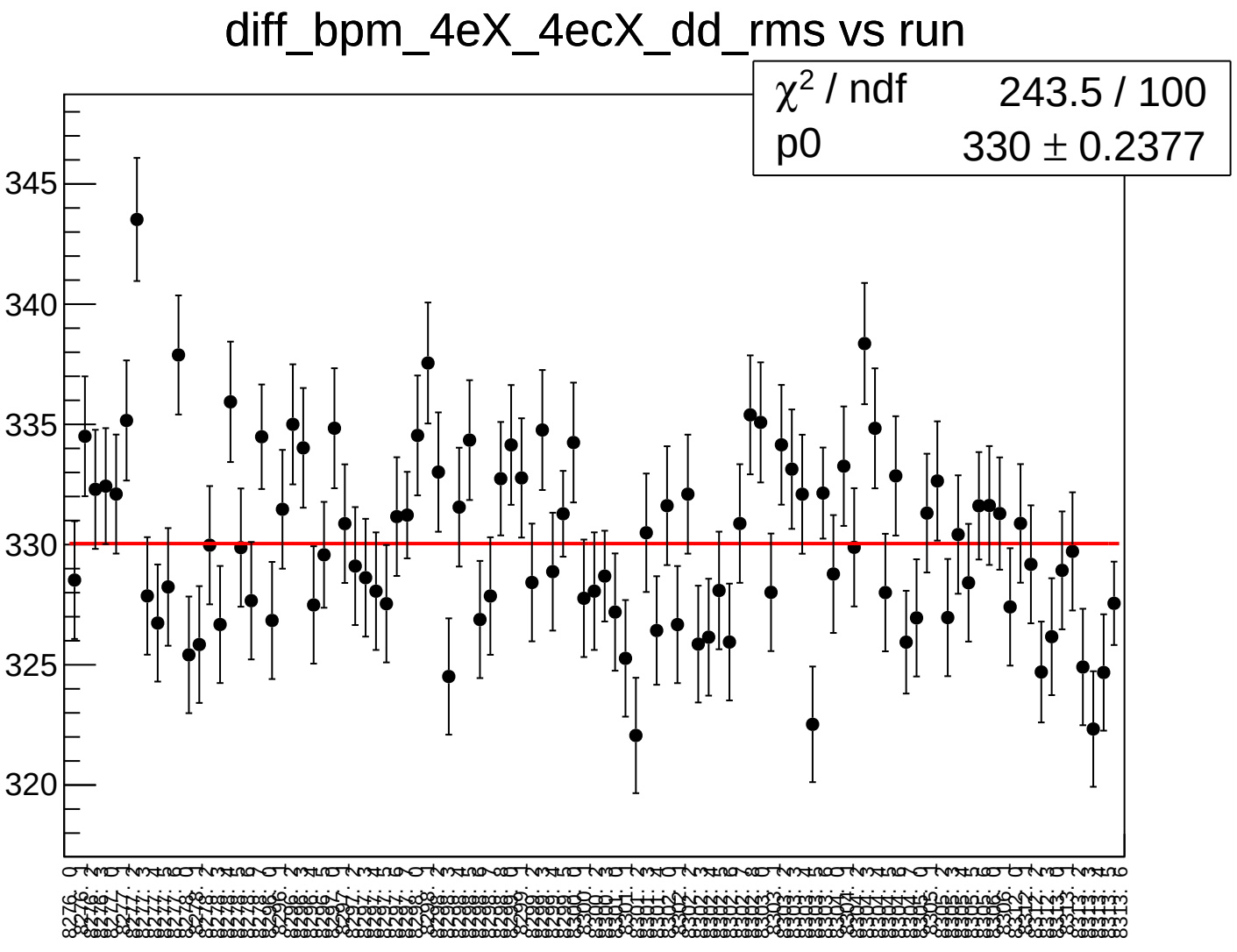

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 100.2 / 100
p0 −10.36 ± 21.76
1000
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 101
Mean −1359
Std Dev 0
3
2
1
0
−1
−2

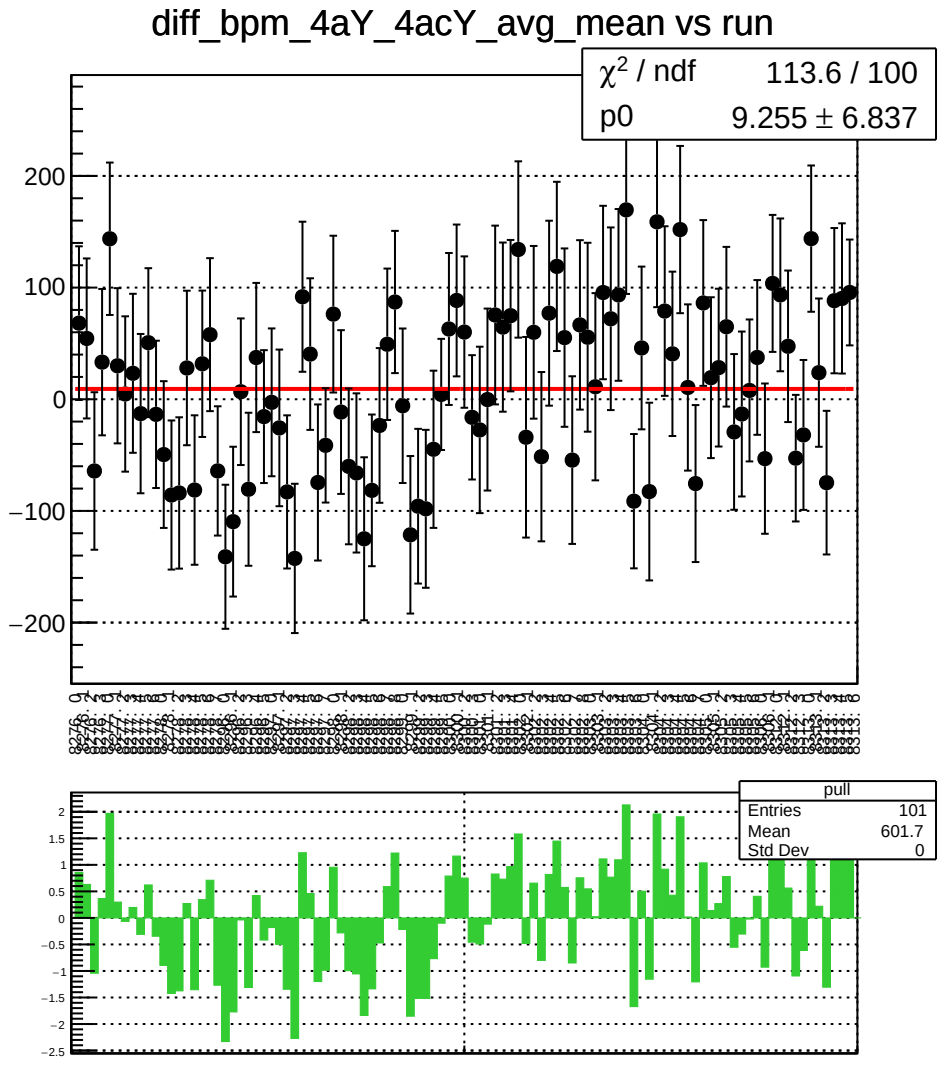

pull1D
Entries 101
Mean −0.001455
Std Dev 0.9962
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

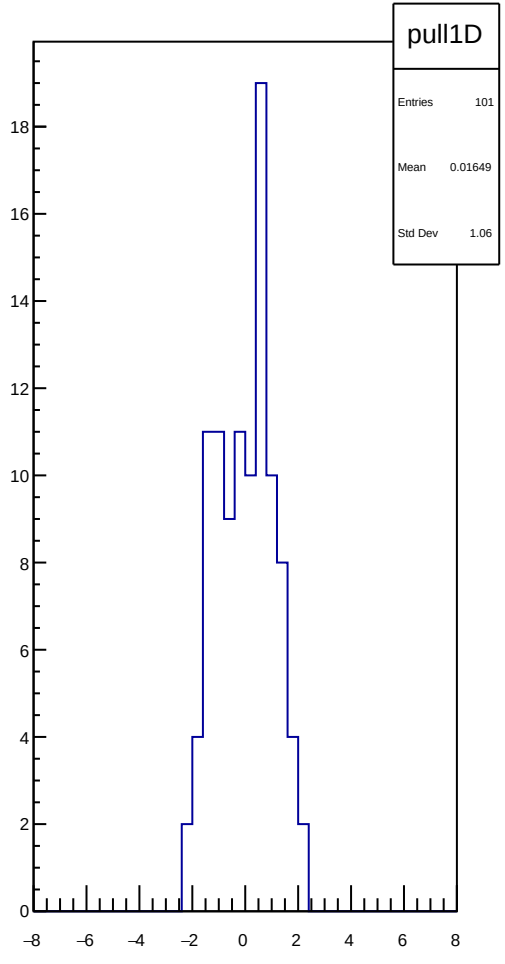

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 4446 / 100
p0 2.134e+04 ± 15.39
27000
26000
25000
24000
23000
22000
21000
20000
19000

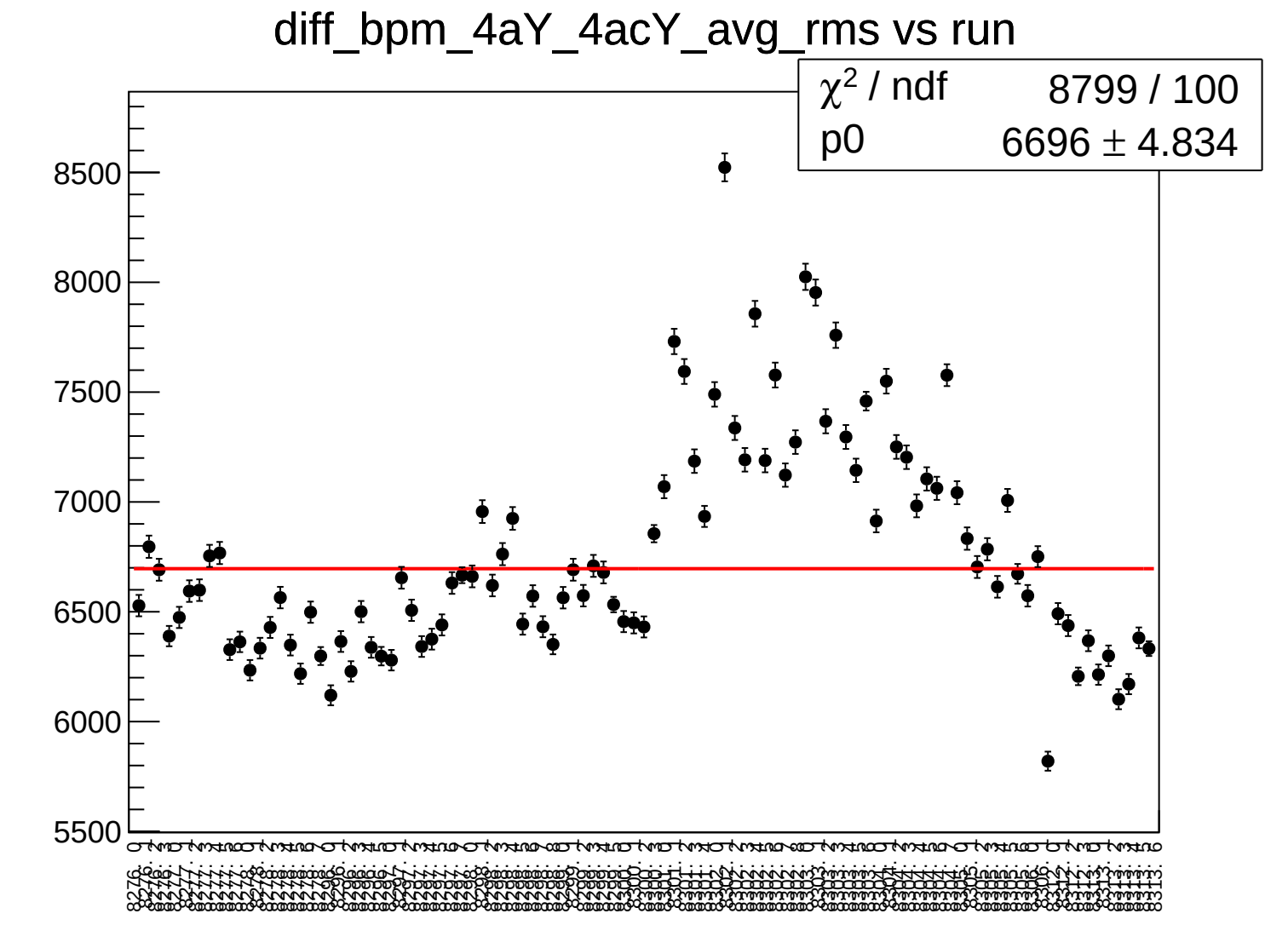

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 94.01 / 100
p0 0.3864 ± 0.3362
10
5
0
−5
−10
pull
Entries 101
Mean −719
Std Dev 0
2
1
0
−1
−2

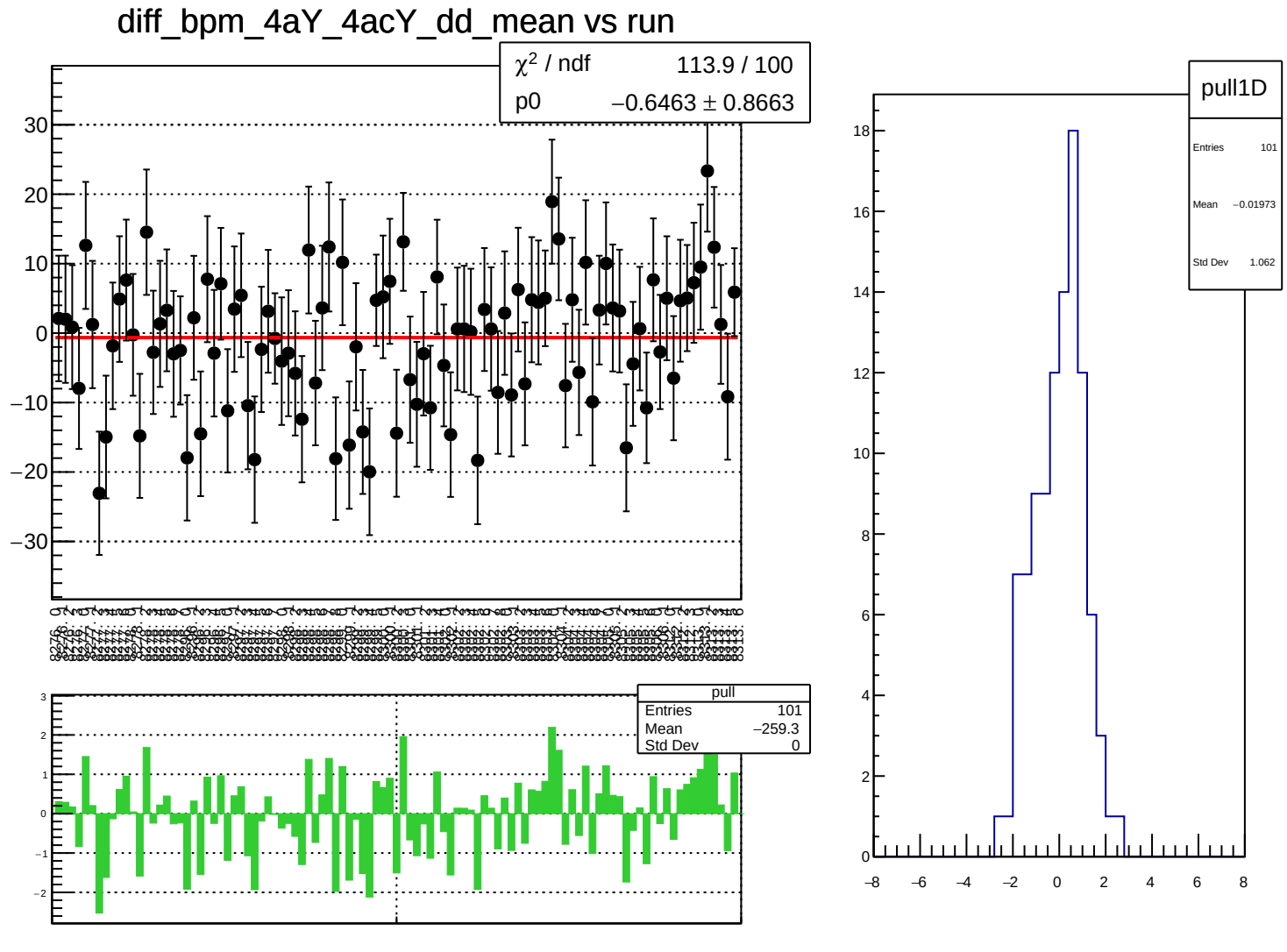

pull1D
Entries 101
Mean 0.009264
Std Dev 0.9647
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

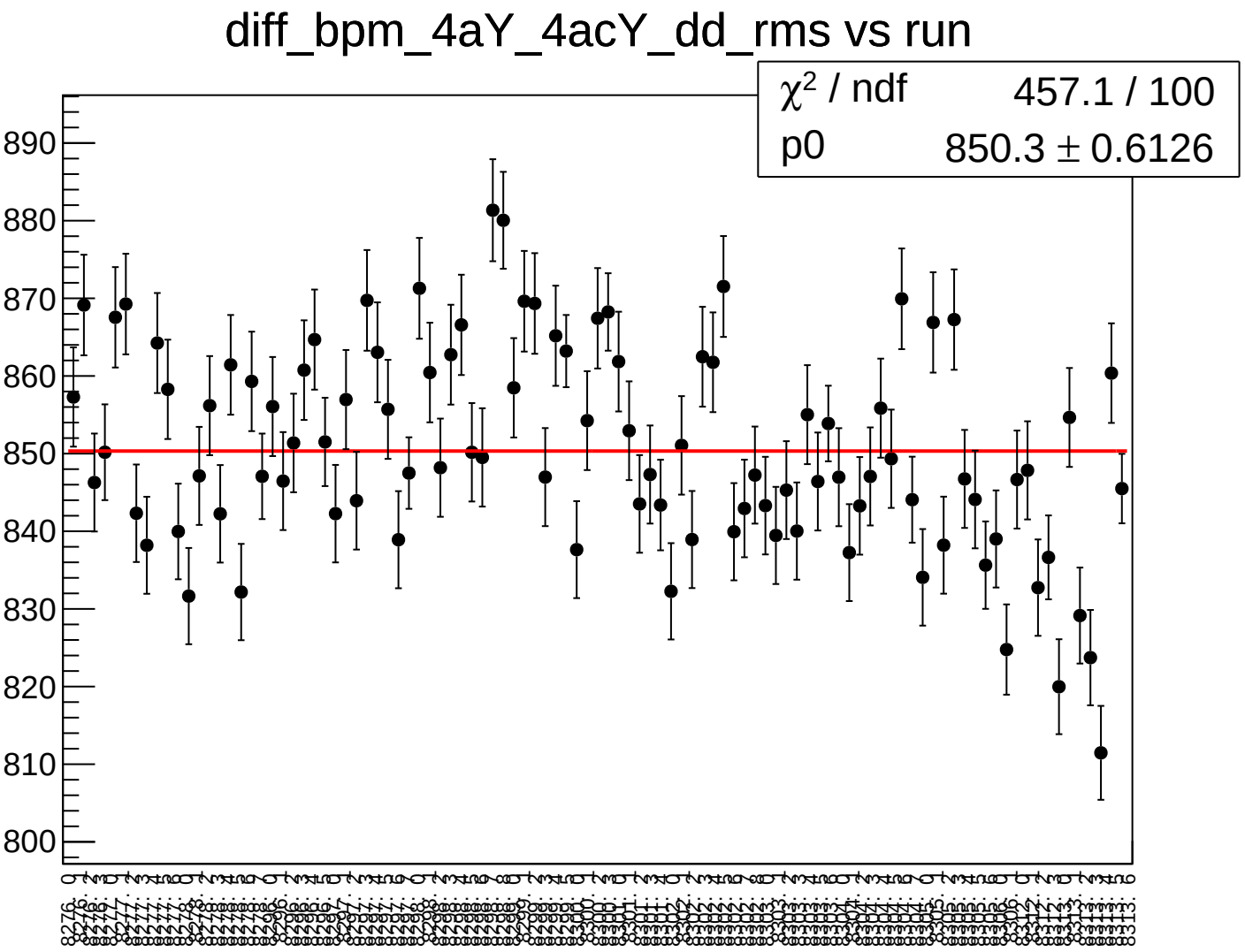

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 243.5 / 100
p0 330 ± 0.2377
345
340
335
330
325
320

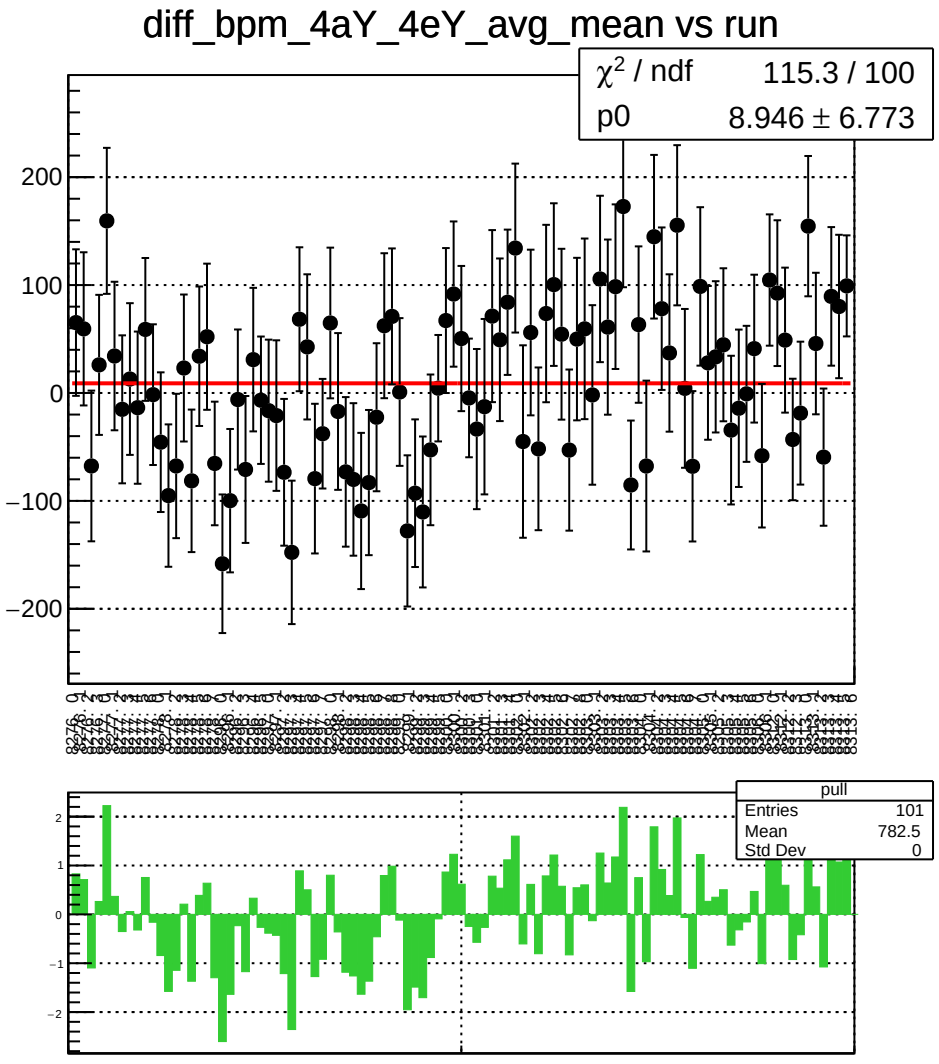

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 113.6 / 100
p0 9.255 ± 6.837
200
100
0
−100
−200
pull
Entries 101
Mean 601.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

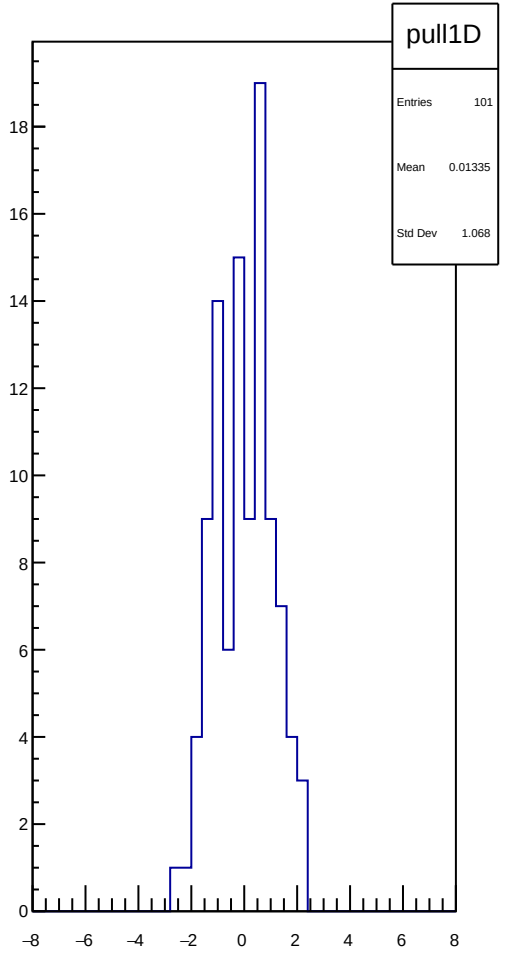

pull1D
Entries 101
Mean 0.01649
Std Dev 1.06
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

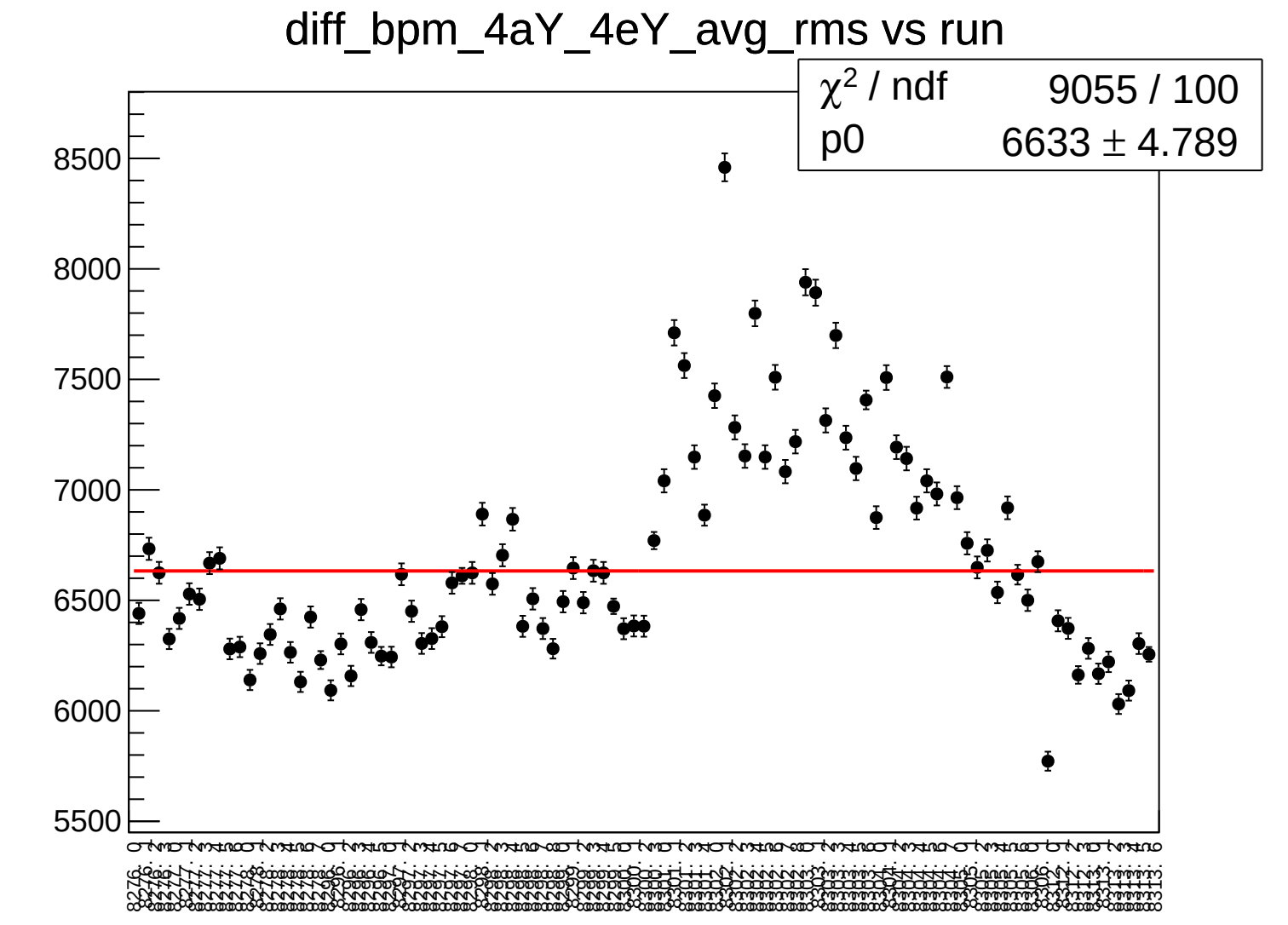

diff_bpm_4aY_4acY_avg_rms vs run
χ² / ndf 8799 / 100
p0 6696 ± 4.834
8500
8000
7500
7000
6500
6000
5500

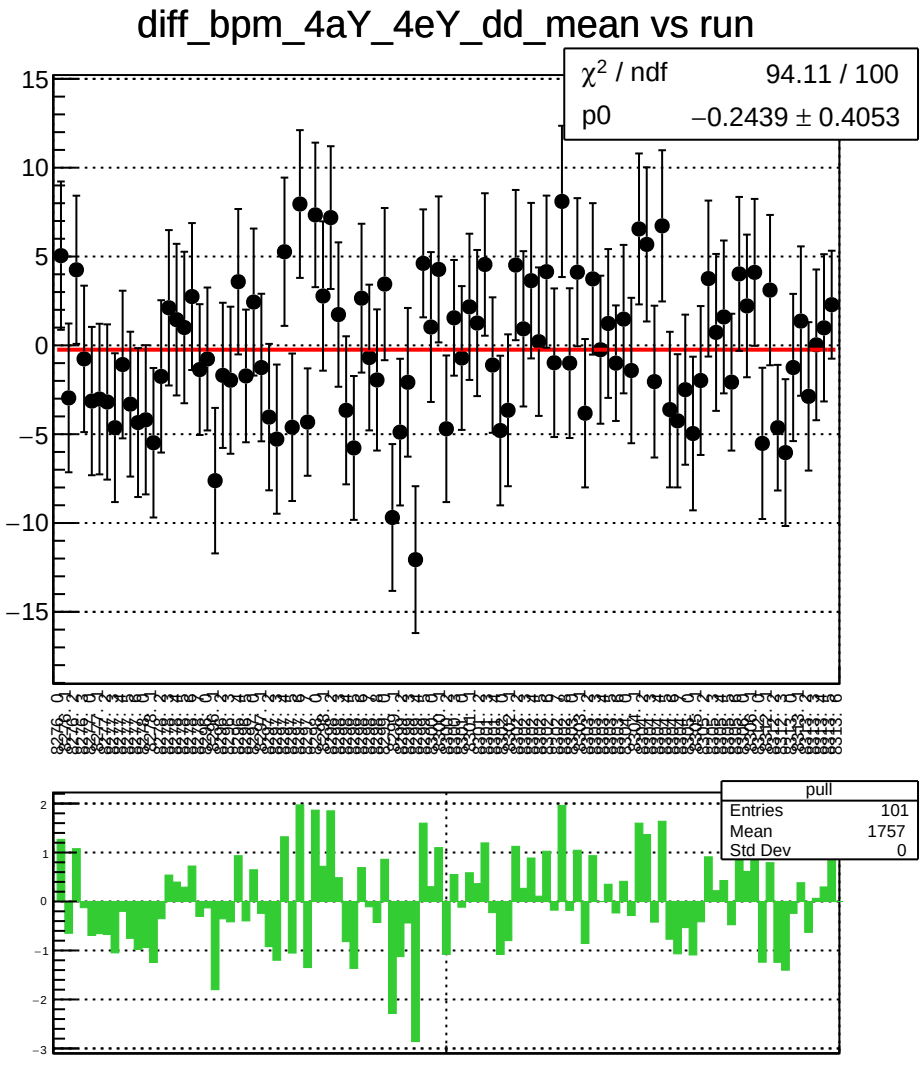

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 113.9 / 100
p0 −0.6463 ± 0.8663
pull
Entries 101
Mean −259.3
Std Dev 0
pull1D
Entries 101
Mean −0.01973
Std Dev 1.062

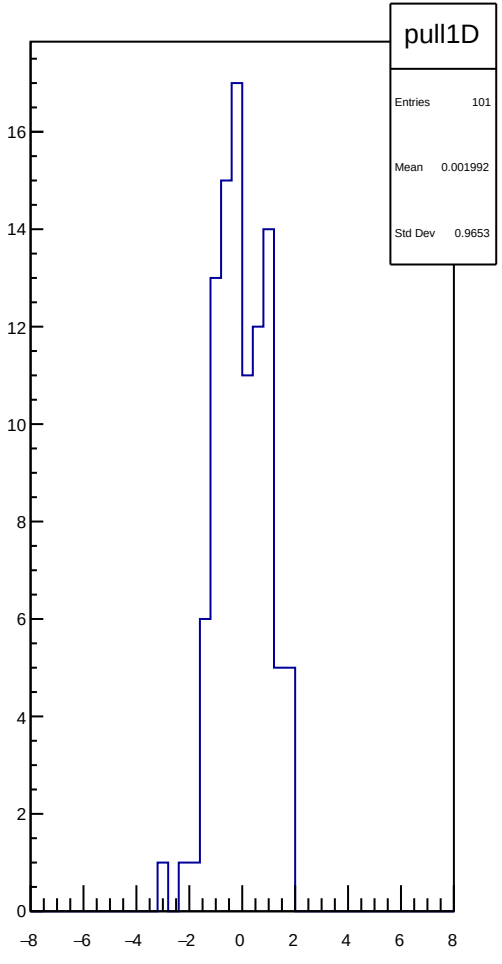

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 457.1 / 100
p0 850.3 ± 0.6126
890
880
870
860
850
840
830
820
810
800

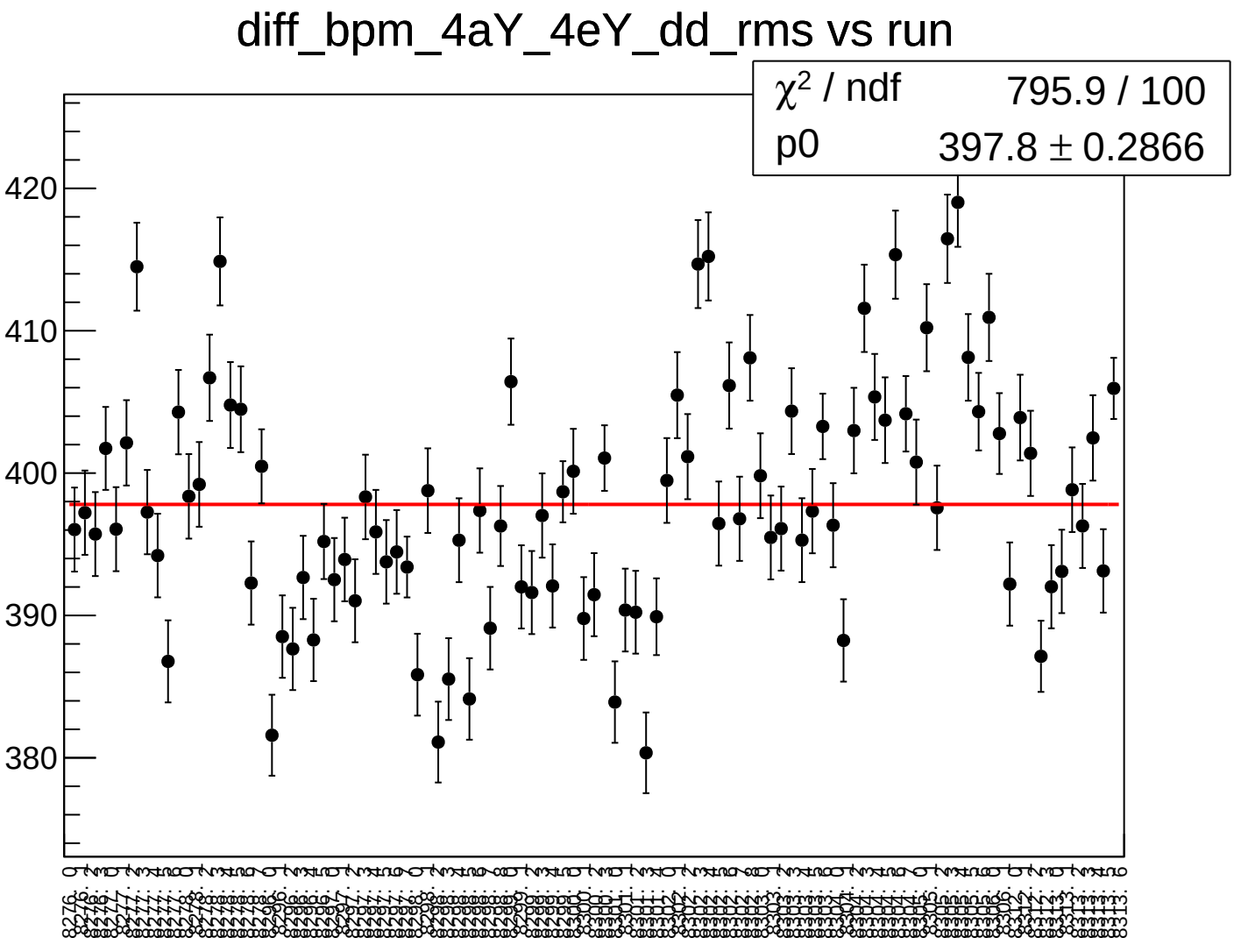

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 115.3 / 100
p0 8.946 ± 6.773
200
100
0
−100
−200
pull
Entries 101
Mean 782.5
Std Dev 0
2
1
0
−1
−2

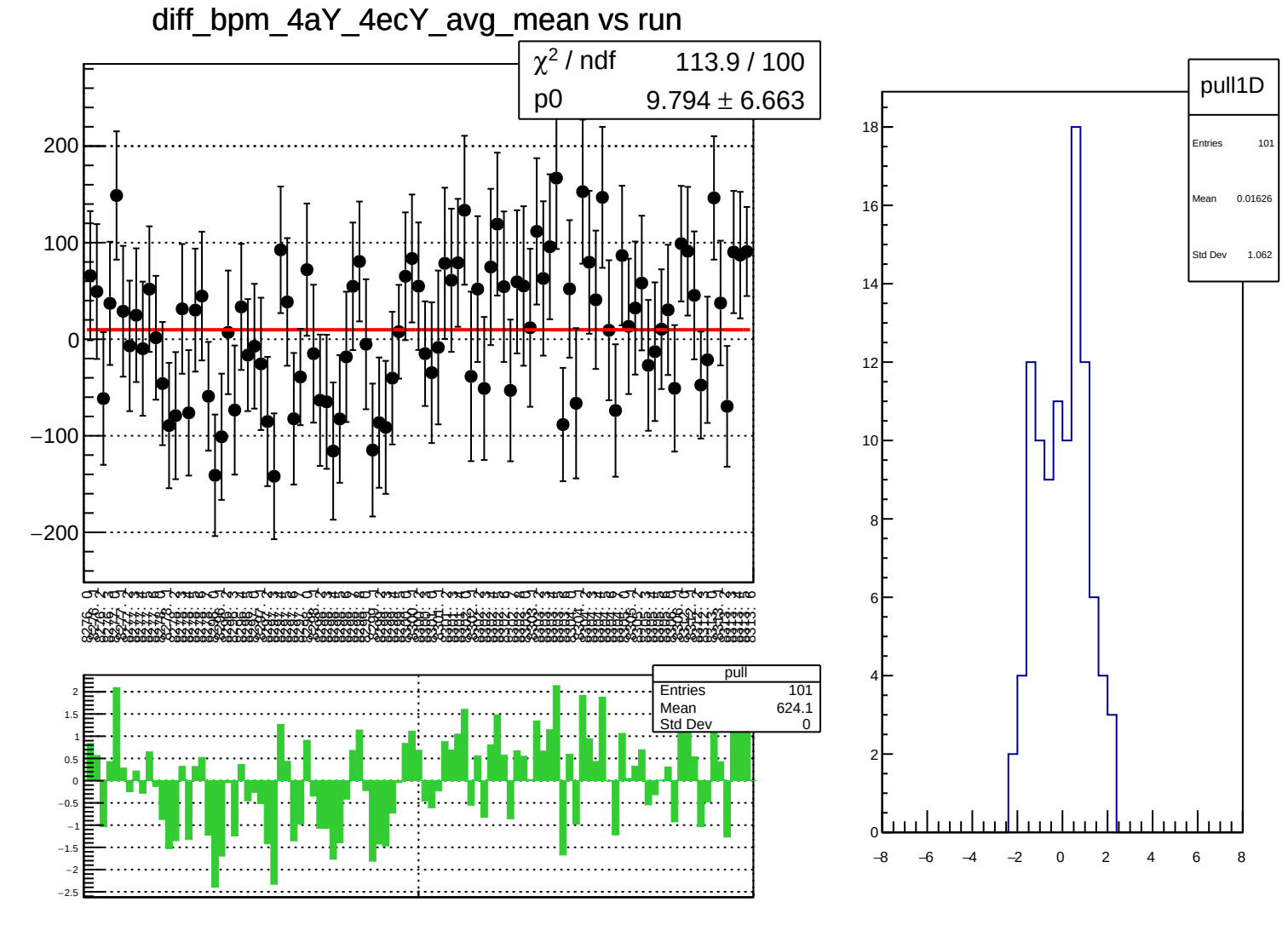

pull1D
Entries 101
Mean 0.01335
Std Dev 1.068
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

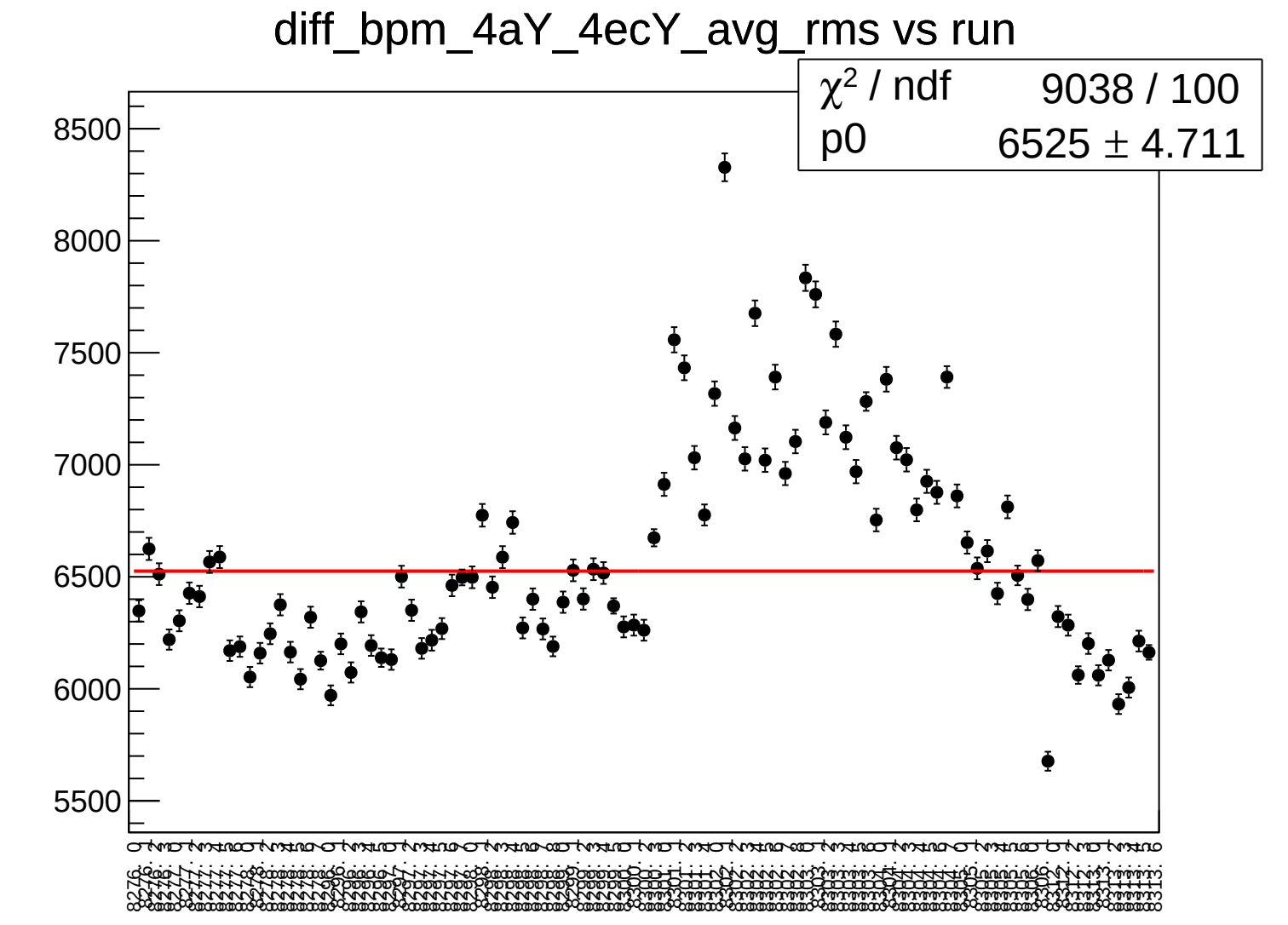

diff_bpm_4aY_4eY_avg_rms vs run
χ² / ndf 9055 / 100
p0 6633 ± 4.789
8500
8000
7500
7000
6500
6000
5500

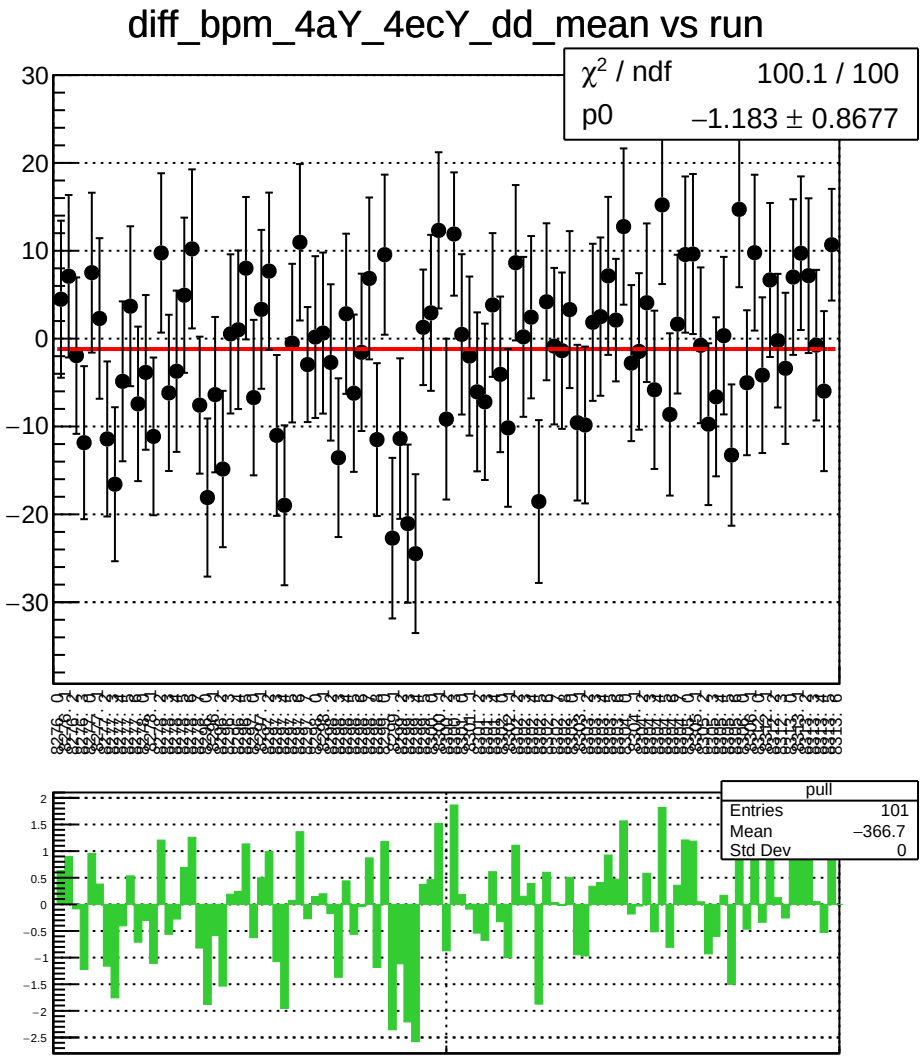

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 94.11 / 100
p0 −0.2439 ± 0.4053
pull
Entries 101
Mean 1757
Std Dev 0

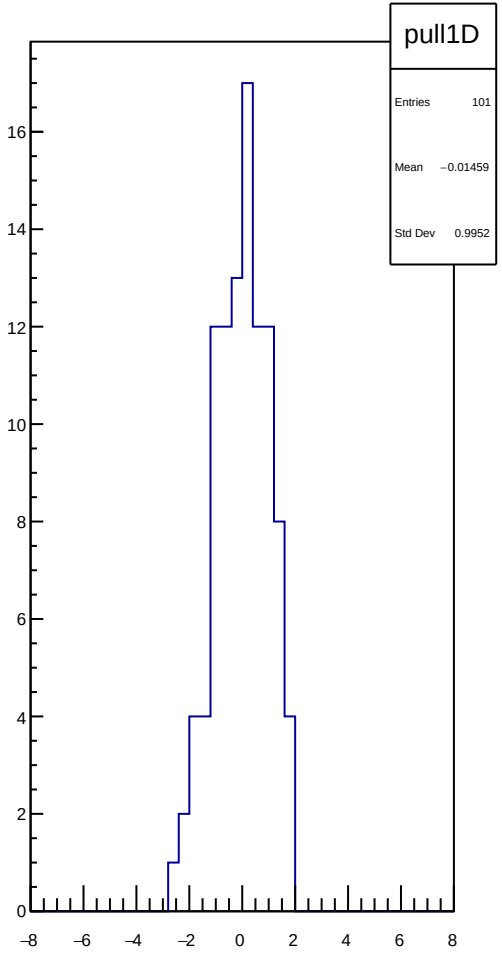

pull1D
Entries 101
Mean 0.001992
Std Dev 0.9653

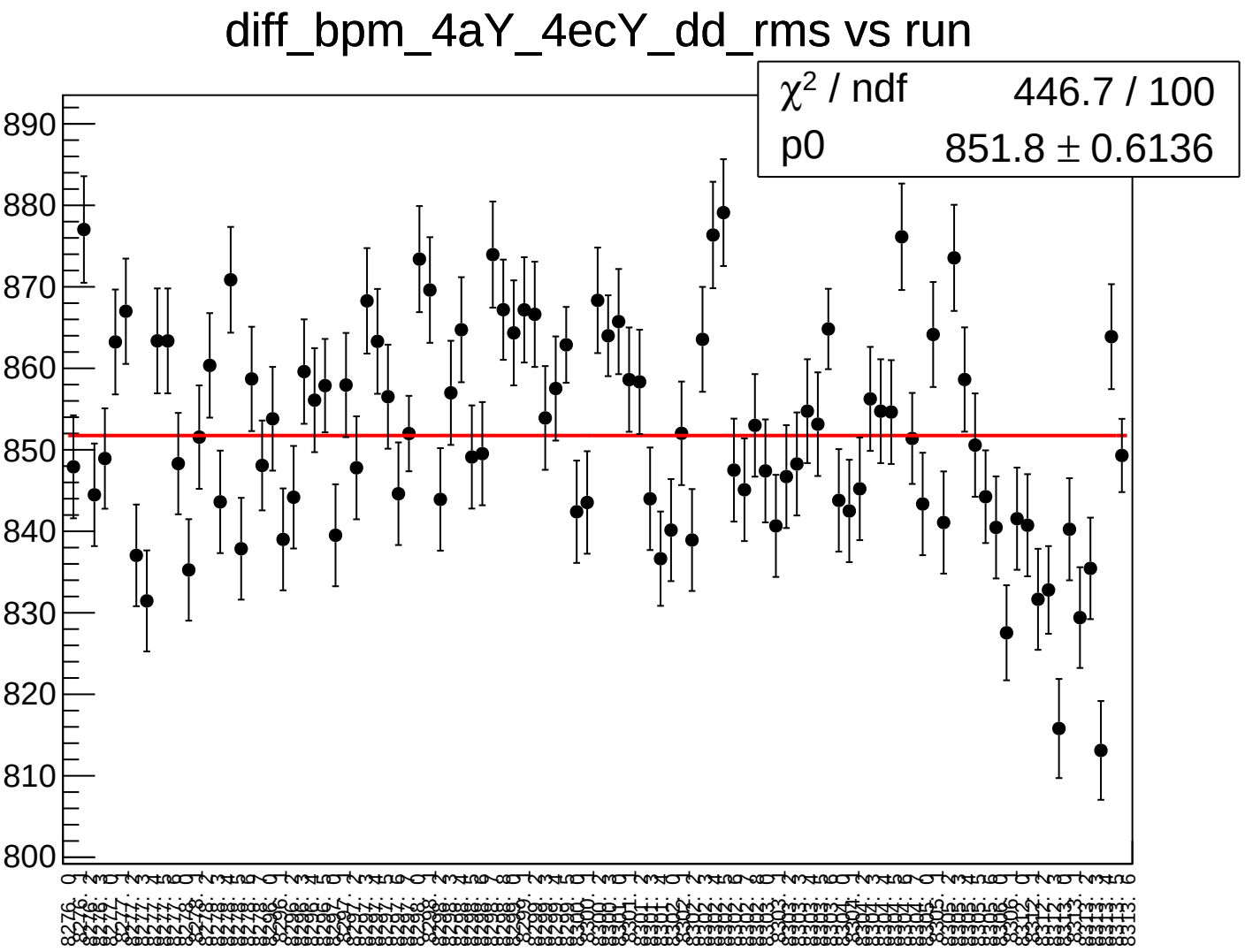

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 795.9 / 100
p0 397.8 ± 0.2866
420
410
400
390
380

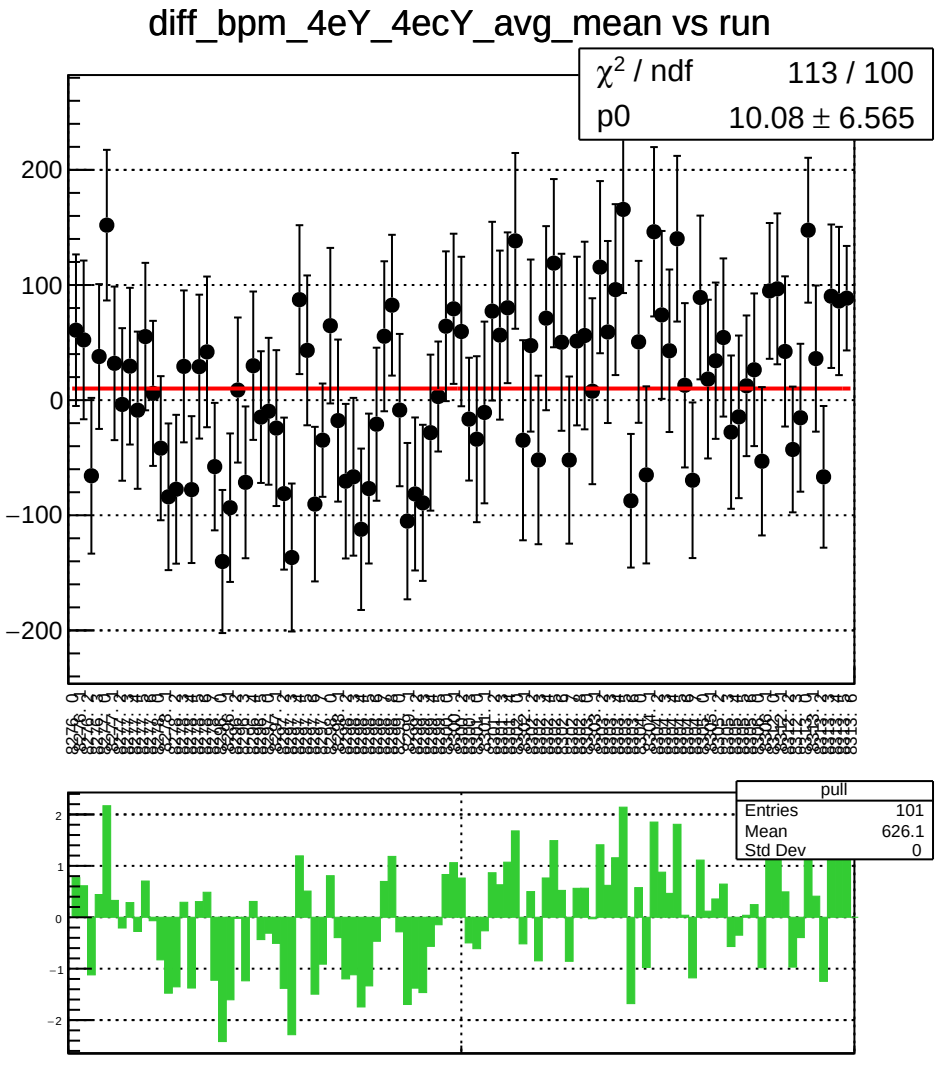

diff_bpm_4aY_4ecY_avg_mean vs run
χ² / ndf 113.9 / 100
p0 9.794 ± 6.663
200
100
0
−100
−200
pull
Entries 101
Mean 624.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 101
Mean 0.01626
Std Dev 1.062
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

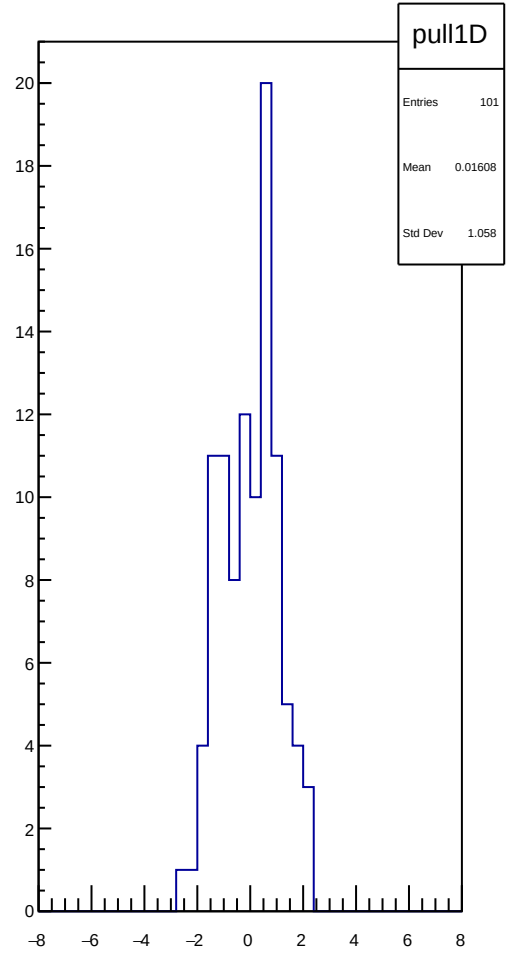

diff_bpm_4aY_4ecY_avg_rms vs run
χ² / ndf 9038 / 100
p0 6525 ± 4.711
8500
8000
7500
7000
6500
6000
5500

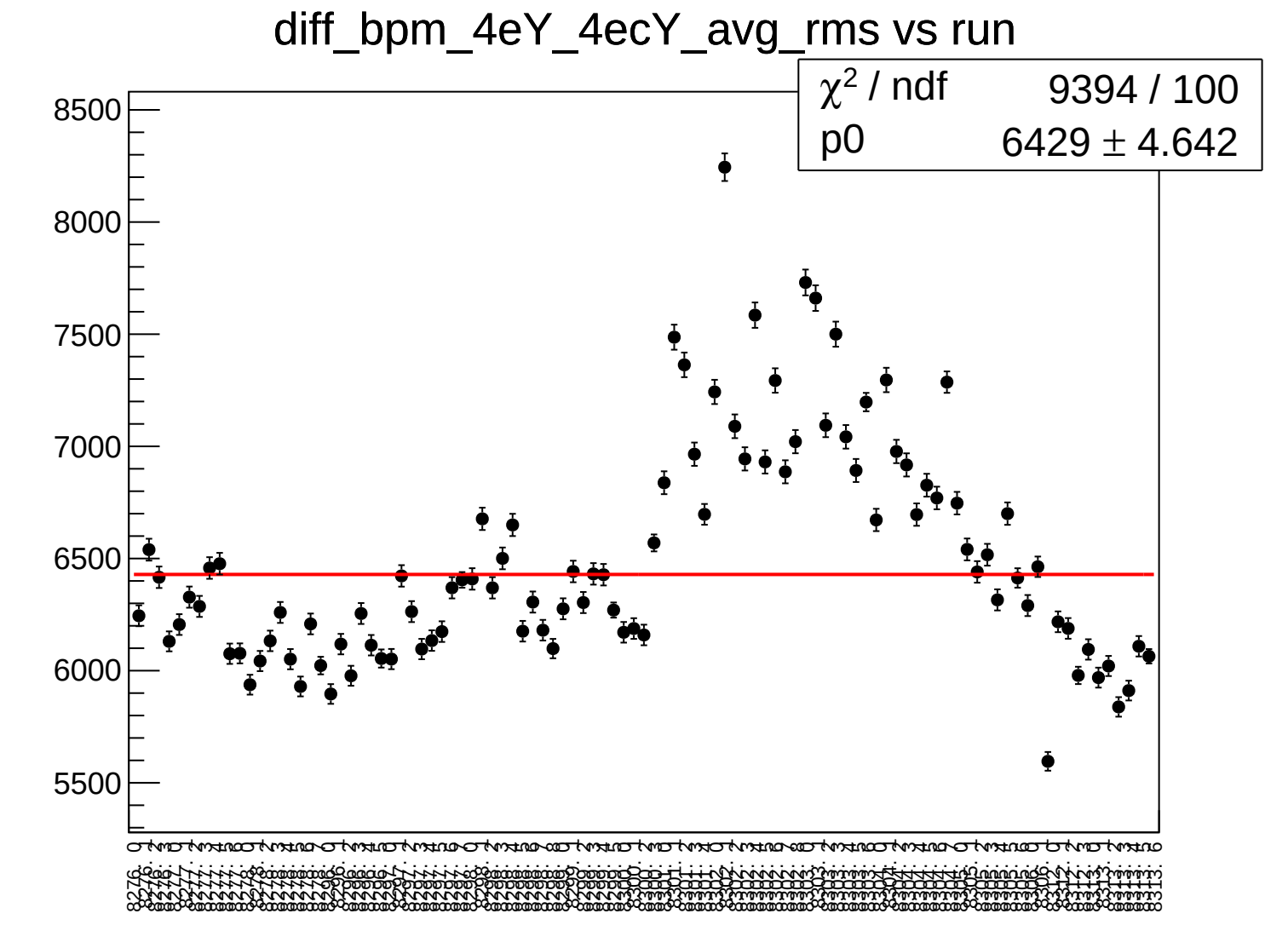

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 100.1 / 100
p0 −1.183 ± 0.8677
pull
Entries 101
Mean −366.7
Std Dev 0

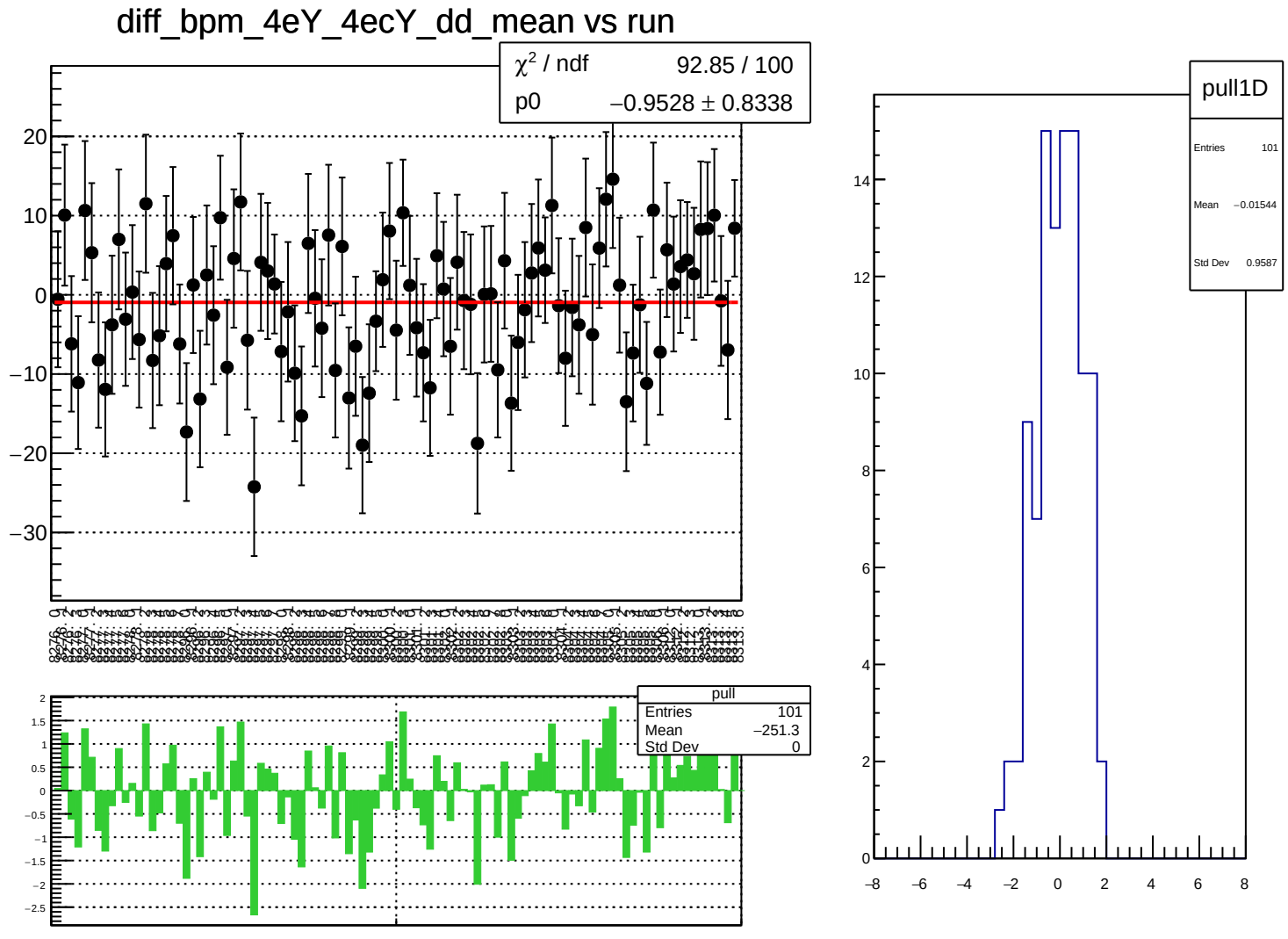

pull1D
Entries 101
Mean −0.01459
Std Dev 0.9952

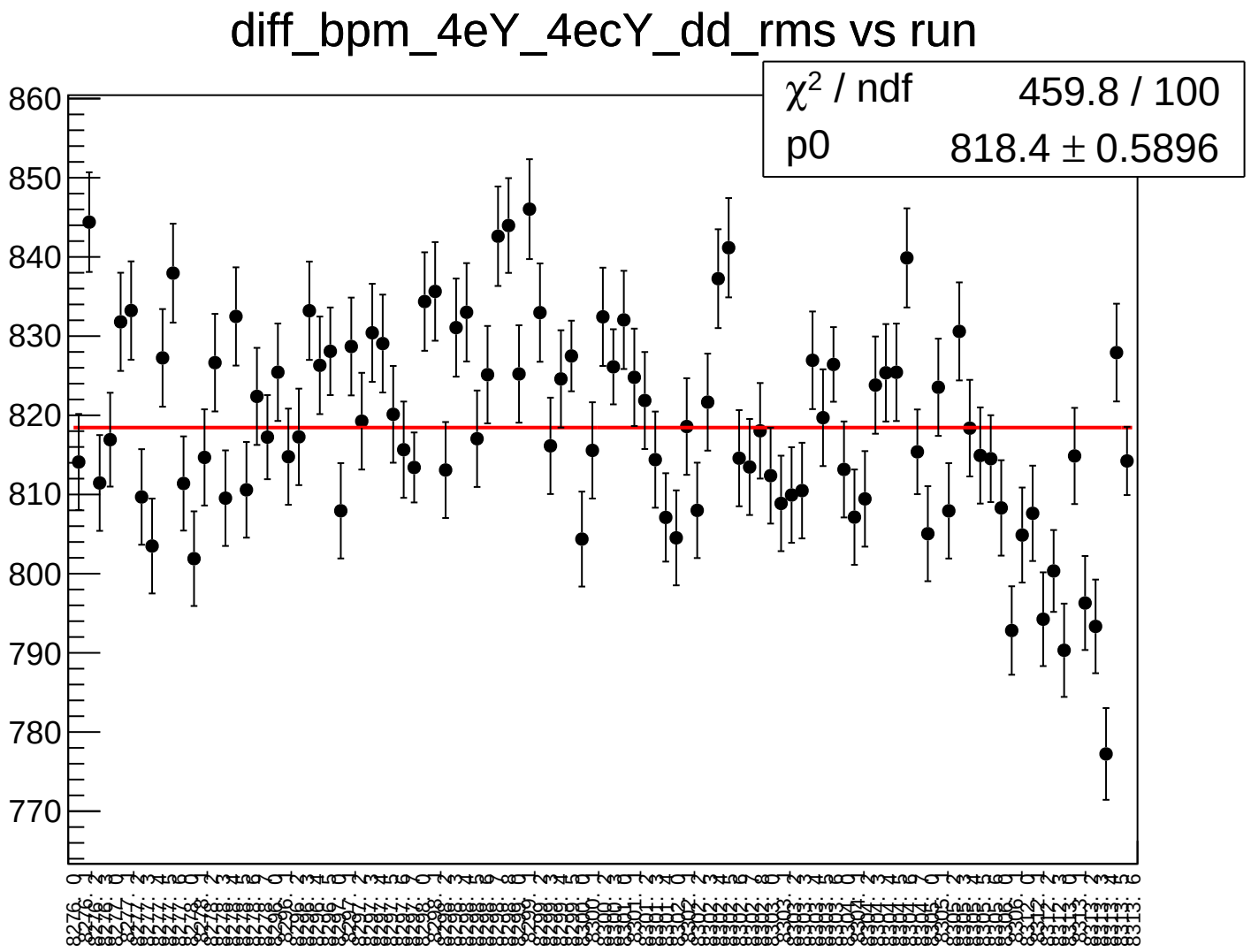

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 446.7 / 100
p0 851.8 ± 0.6136
890
880
870
860
850
840
830
820
810
800

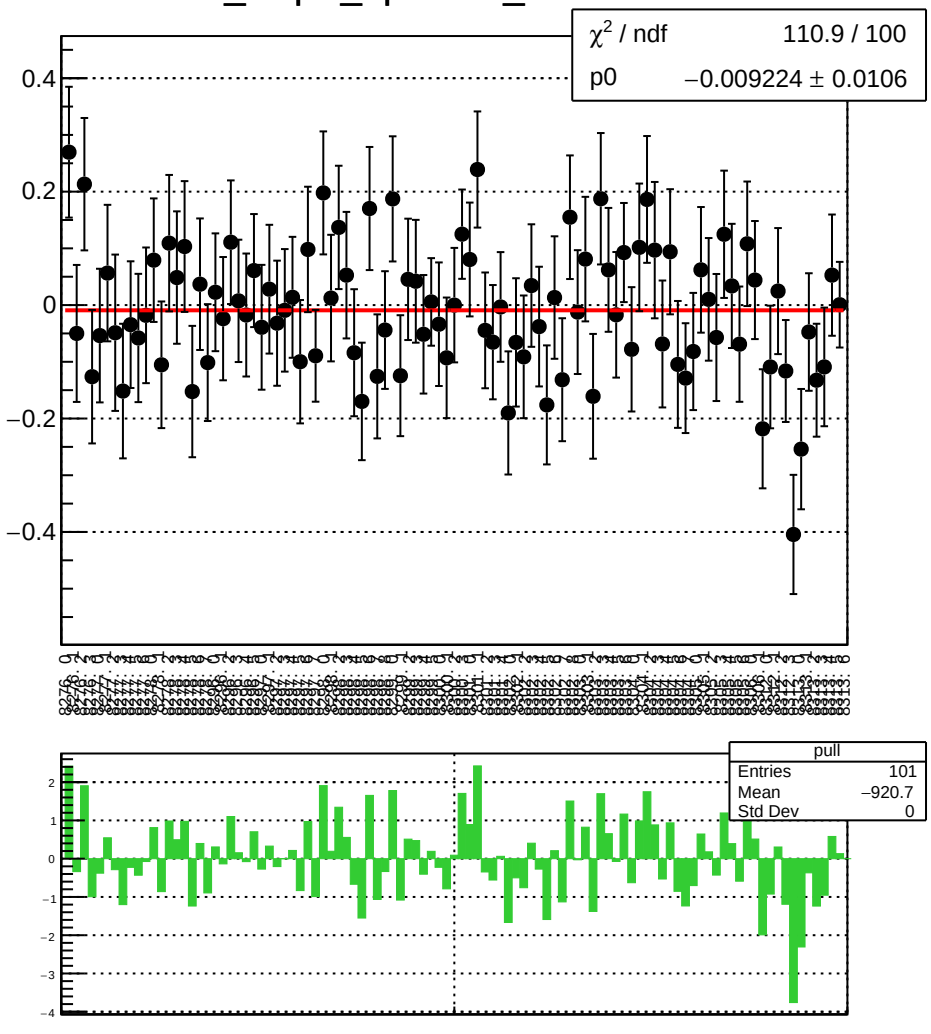

diff_bpm_4eY_4ecY_avg_mean vs run
χ² / ndf 113 / 100
p0 10.08 ± 6.565
200
100
0
−100
−200
pull
Entries 101
Mean 626.1
Std Dev 0
2
1
0
−1
−2

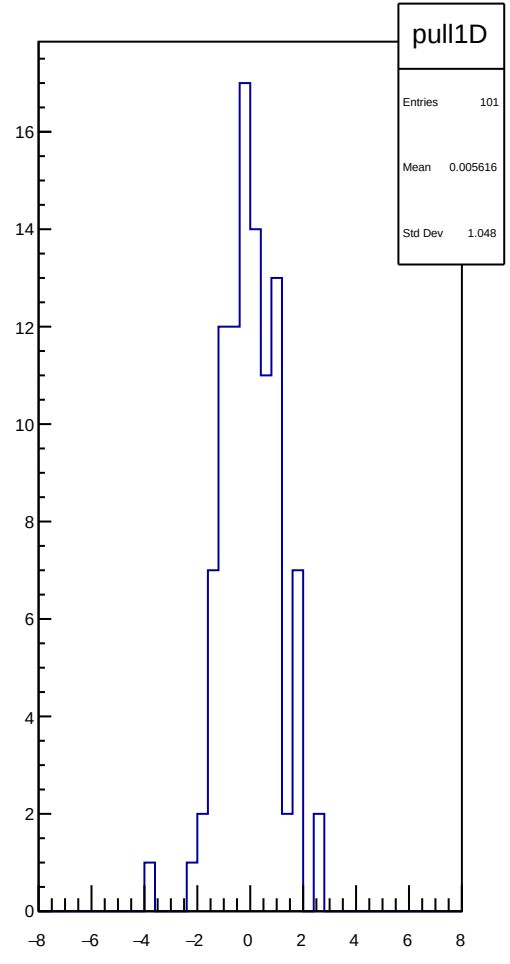

pull1D
Entries 101
Mean 0.01608
Std Dev 1.058
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

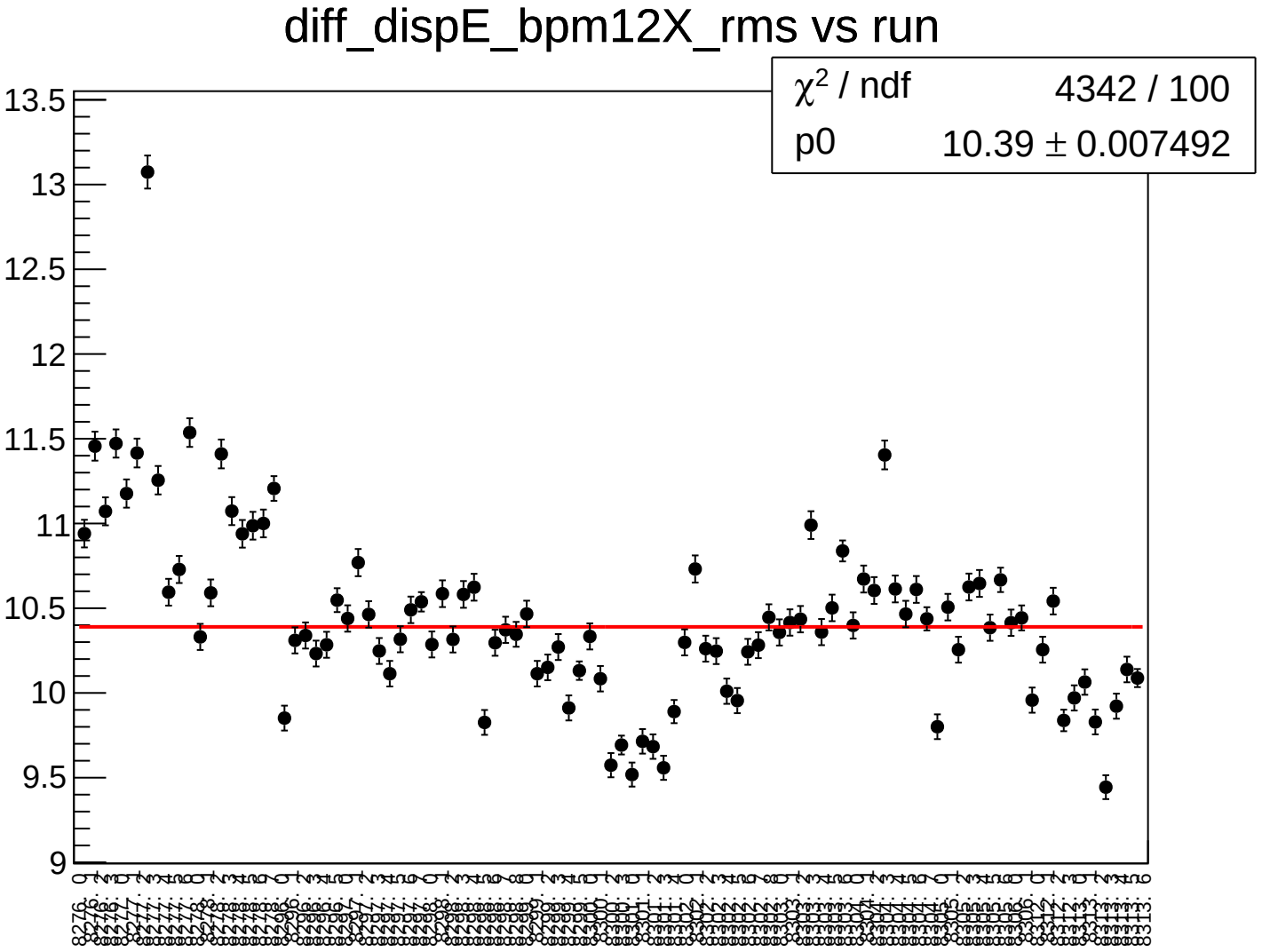

diff_bpm_4eY_4ecY_avg_rms vs run
χ² / ndf 9394 / 100
p0 6429 ± 4.642
8500
8000
7500
7000
6500
6000
5500

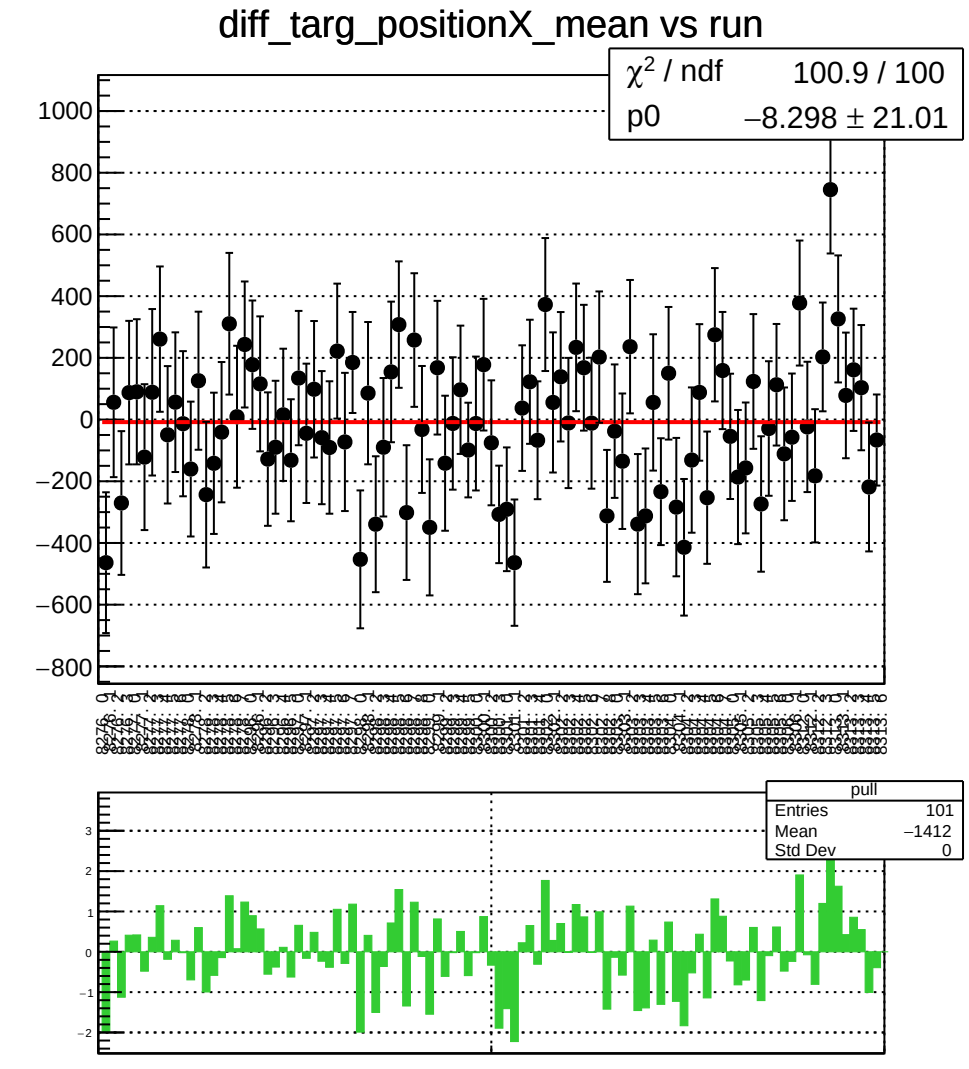

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 92.85 / 100
p0 −0.9528 ± 0.8338
pull
Entries 101
Mean −251.3
Std Dev 0
pull1D
Entries 101
Mean −0.01544
Std Dev 0.9587

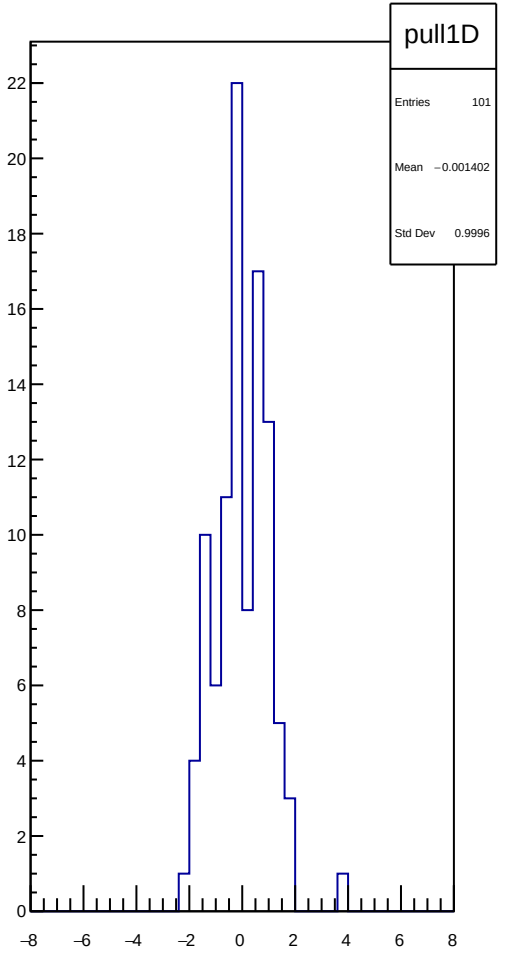

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 459.8 / 100
p0 818.4 ± 0.5896
860
850
840
830
820
810
800
790
780
770

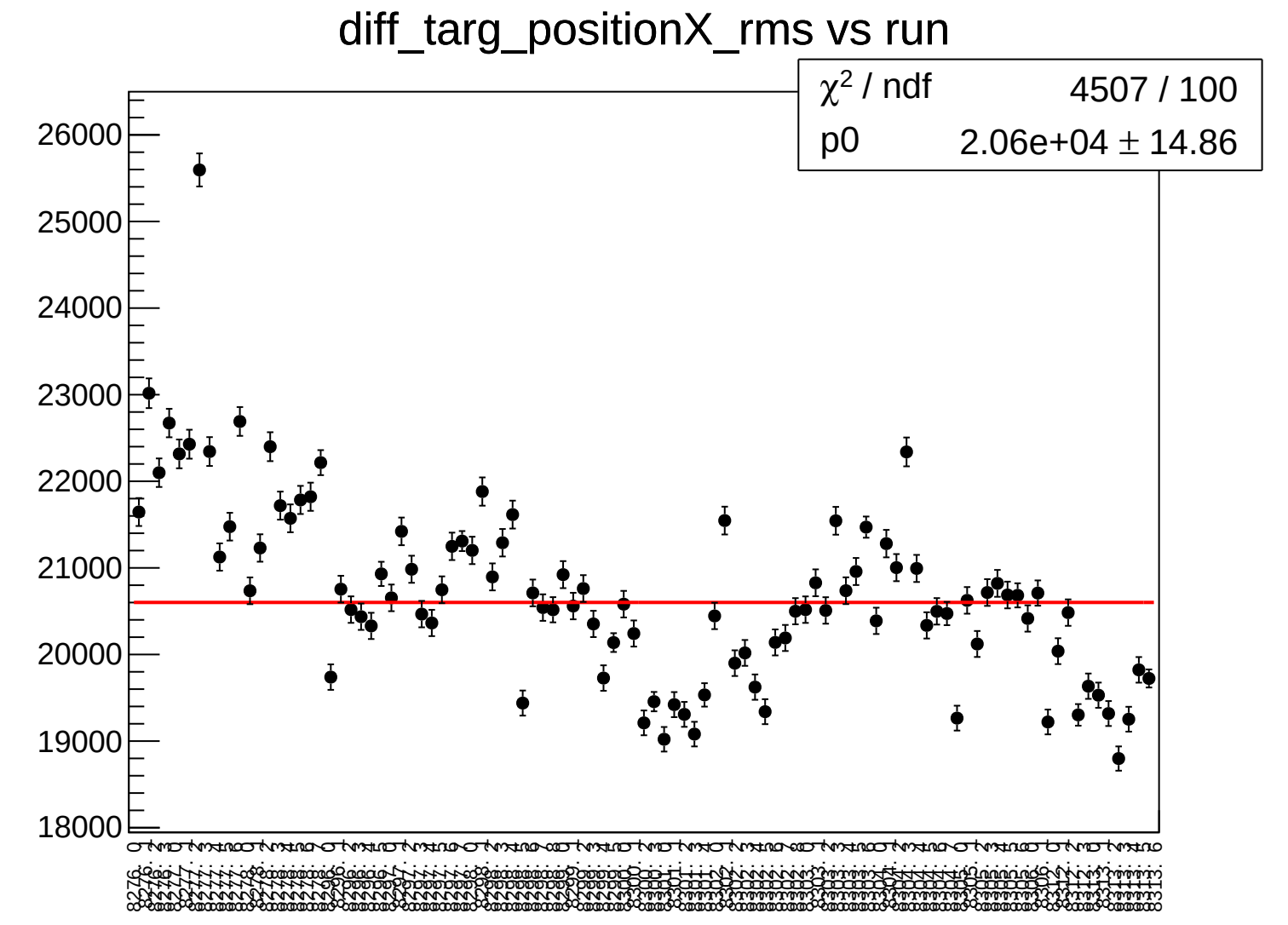

diff_dispE_bpm12X_mean vs run
χ² / ndf 110.9 / 100
p0 −0.009224 ± 0.0106
pull
Entries 101
Mean −920.7
Std Dev 0

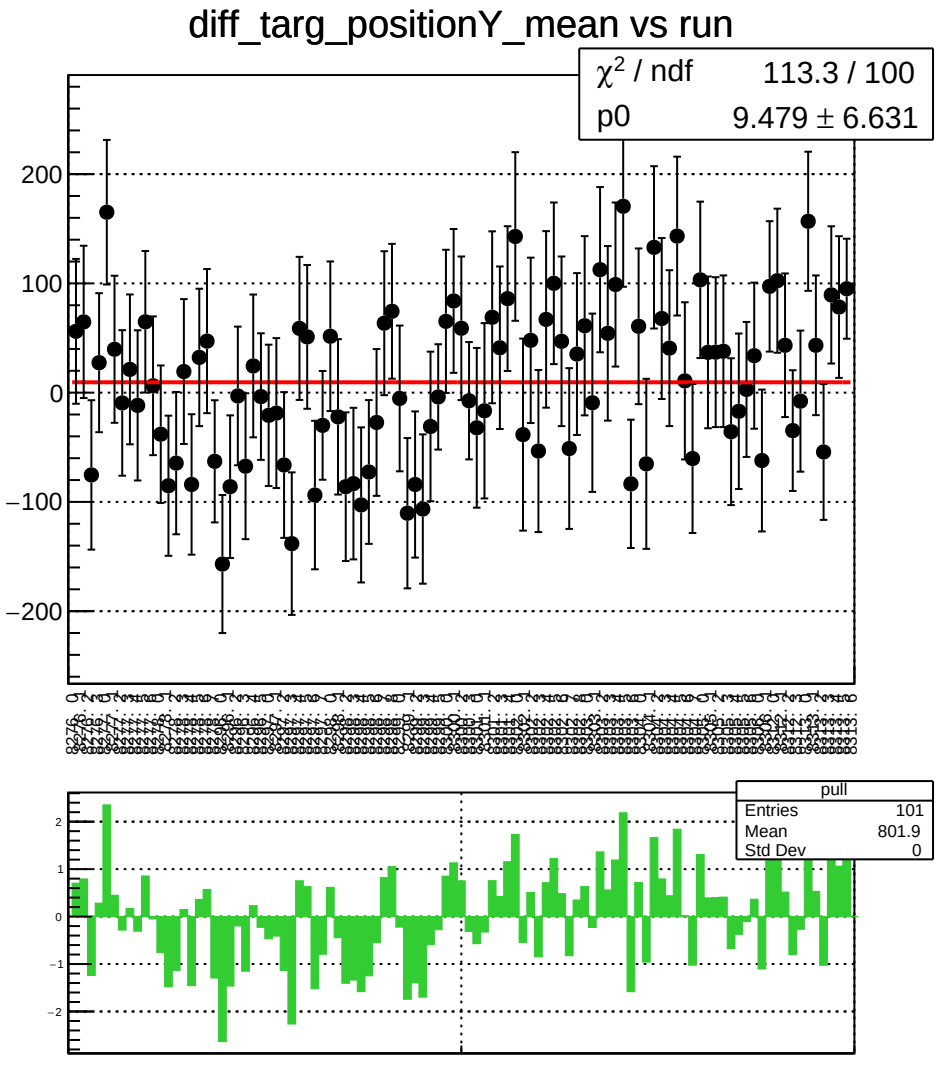

pull1D
Entries 101
Mean 0.005616
Std Dev 1.048

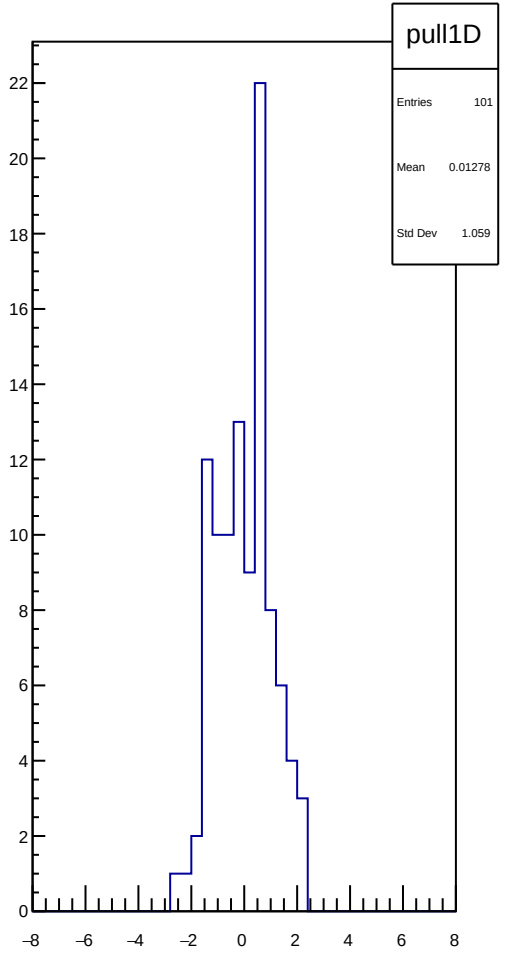

diff_dispE_bpm12X_rms vs run
χ² / ndf 4342 / 100
p0 10.39 ± 0.007492
13.5
13
12.5
12
11.5
11
10.5
10
9.5
9

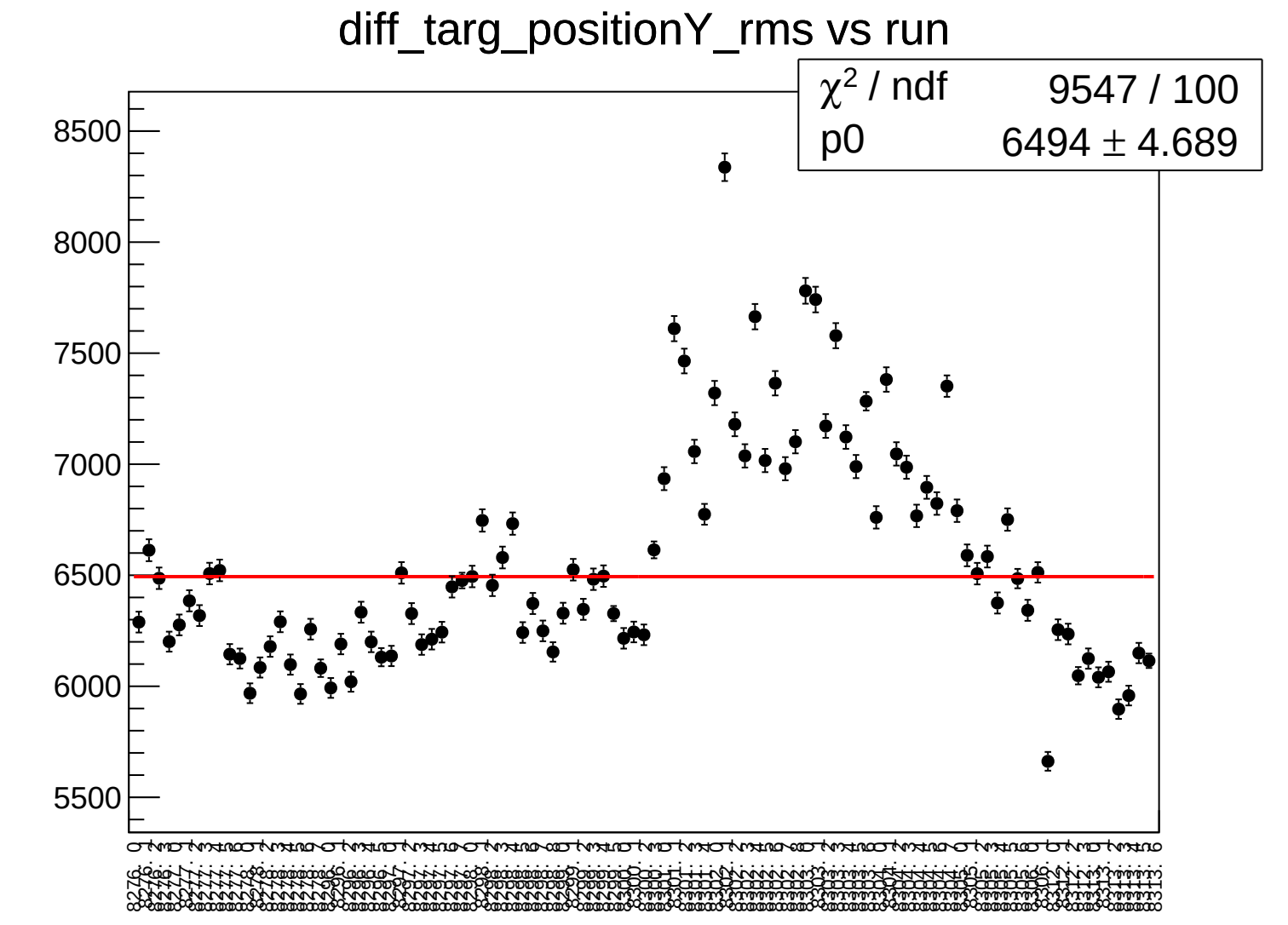

diff_targ_positionX_mean vs run
χ² / ndf 100.9 / 100
p0 −8.298 ± 21.01
pull
Entries 101
Mean −1412
Std Dev 0

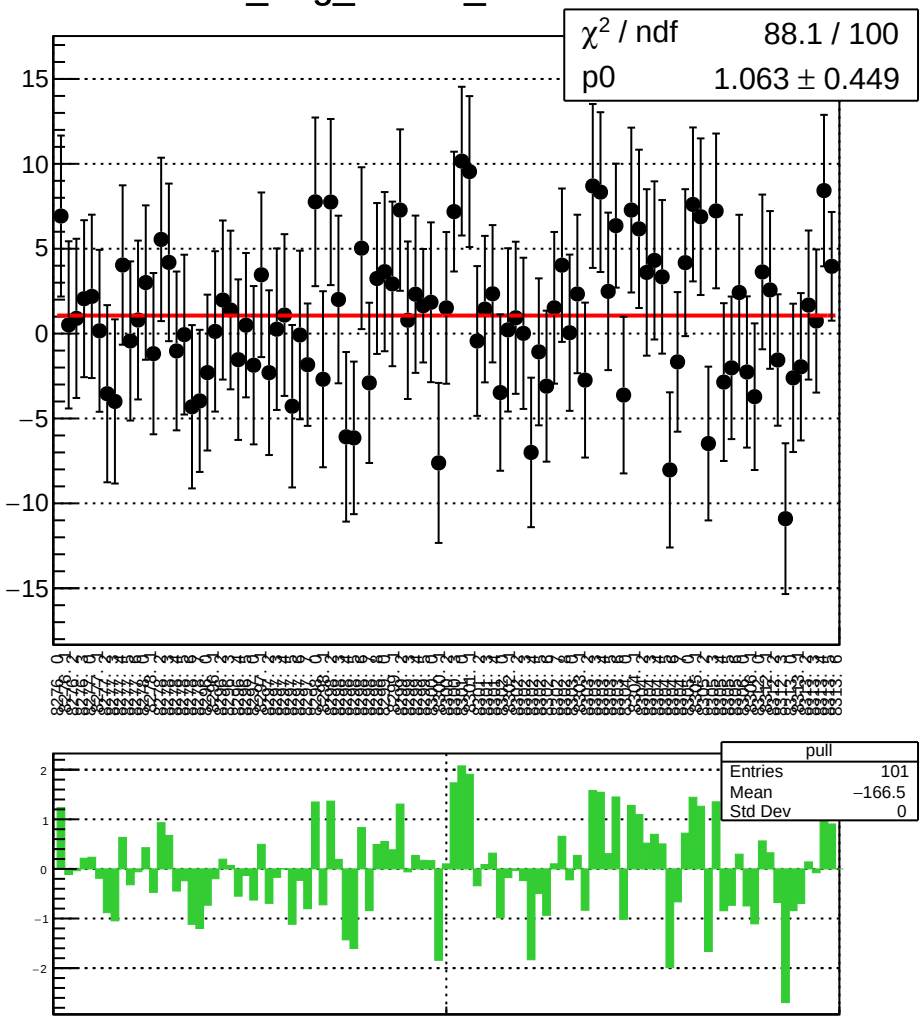

pull1D
Entries 101
Mean −0.001402
Std Dev 0.9996

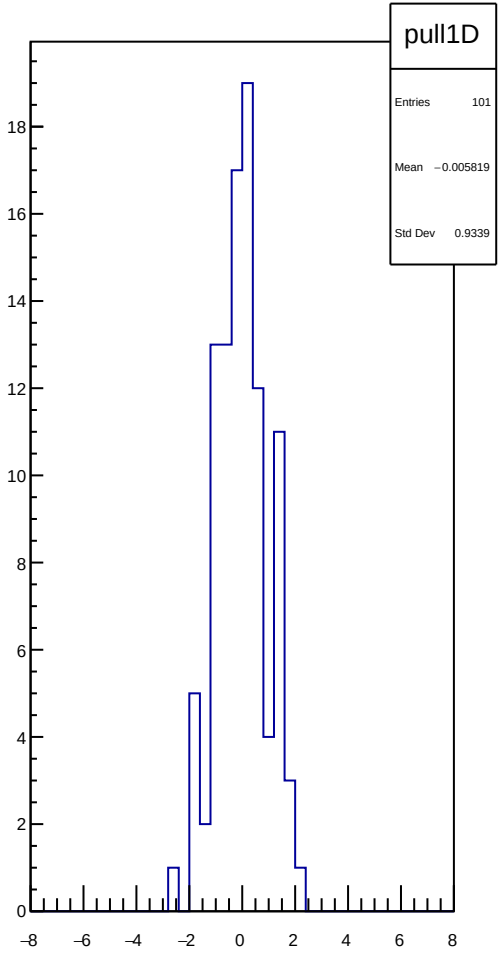

diff_targ_positionX_rms vs run
χ² / ndf 4507 / 100
p0 2.06e+04 ± 14.86
26000
25000
24000
23000
22000
21000
20000
19000
18000

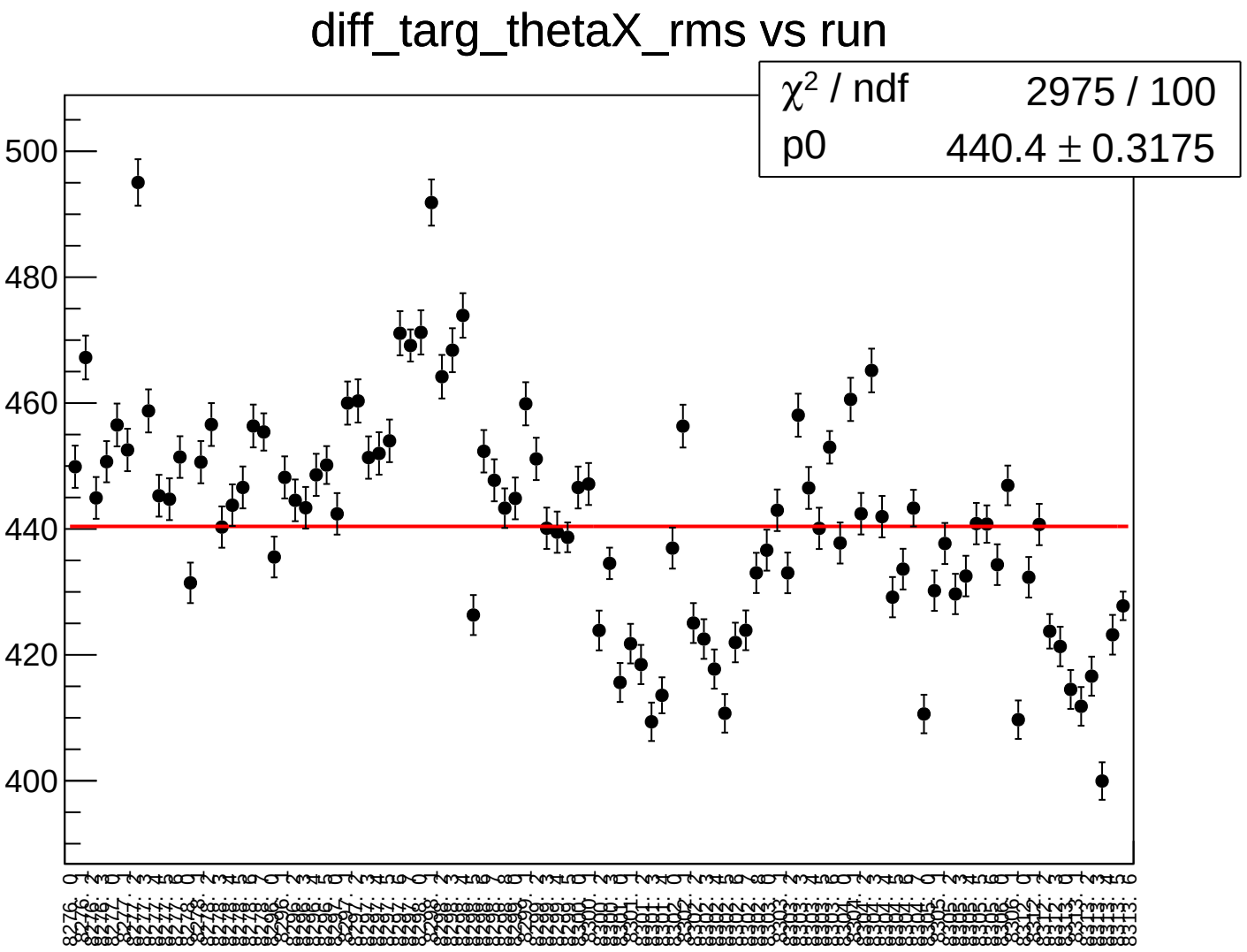

diff_targ_positionY_mean vs run
χ² / ndf 113.3 / 100
p0 9.479 ± 6.631
200
100
0
−100
−200
pull
Entries 101
Mean 801.9
Std Dev 0
2
1
0
−1
−2

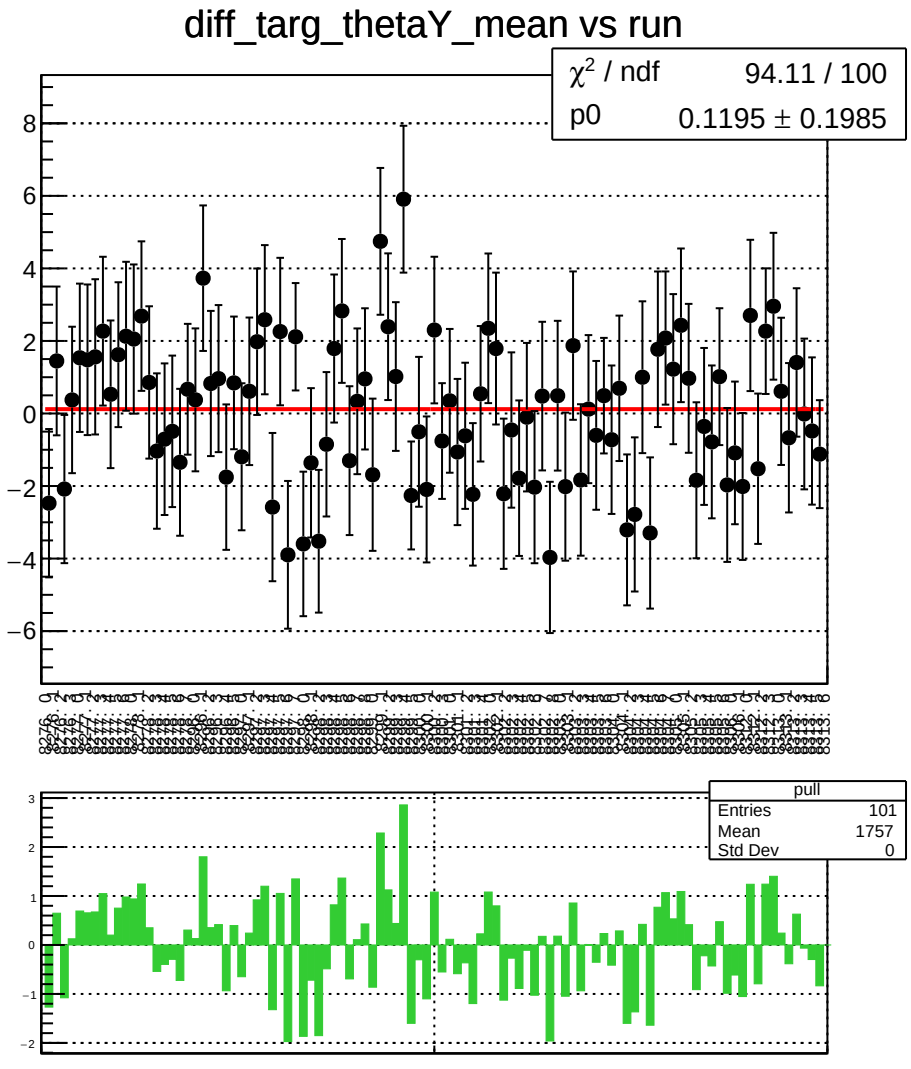

pull1D
Entries 101
Mean 0.01278
Std Dev 1.059
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

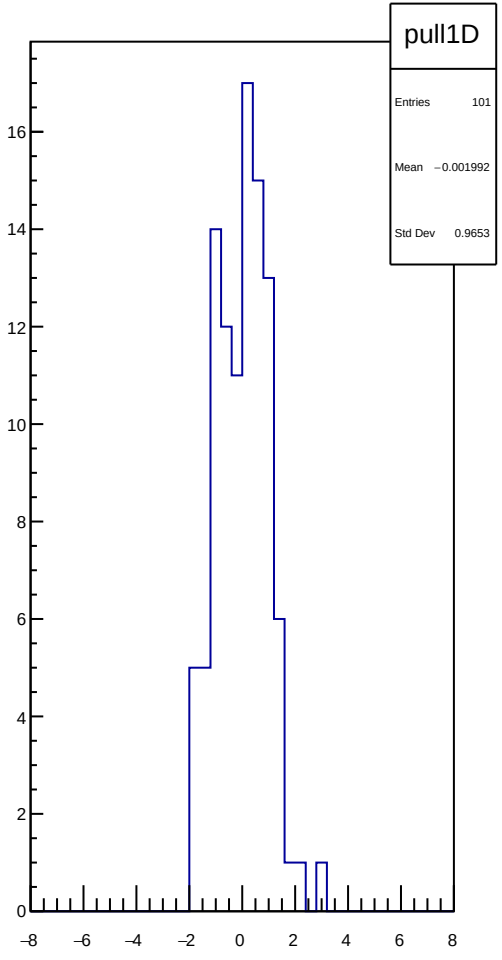

diff_targ_positionY_rms vs run
χ² / ndf 9547 / 100
p0 6494 ± 4.689
8500
8000
7500
7000
6500
6000
5500

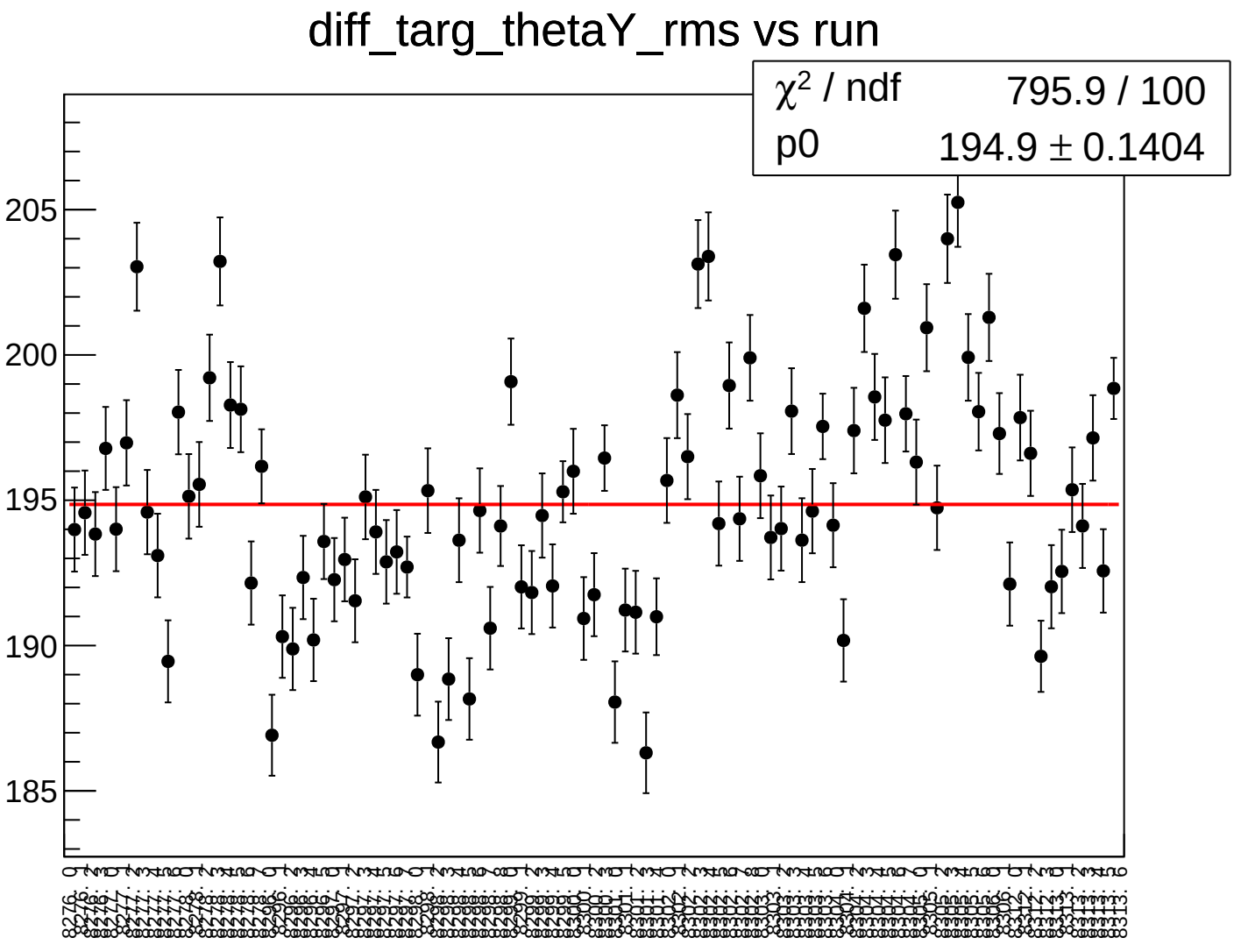

diff_targ_thetaX_mean vs run
χ² / ndf 88.1 / 100
p0 1.063 ± 0.449
pull
Entries 101
Mean −166.5
Std Dev 0

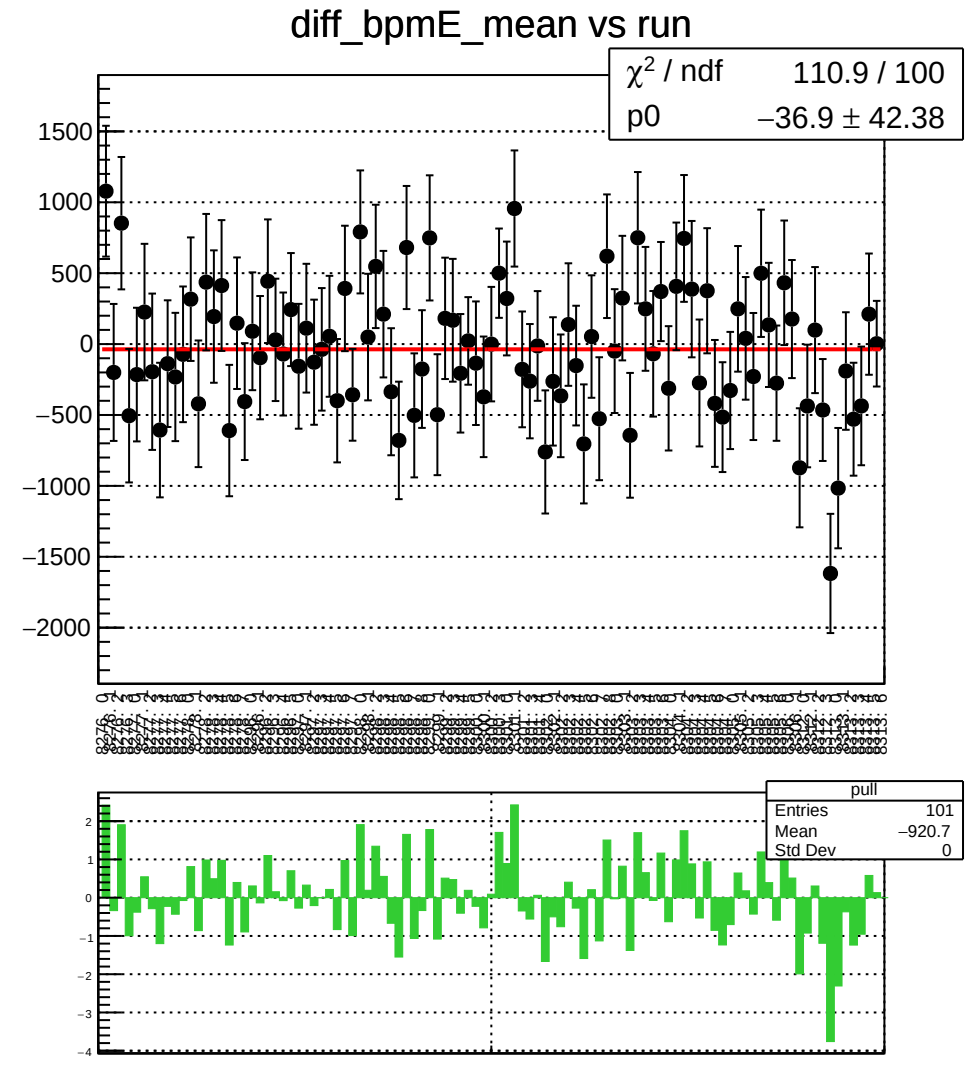

pull1D
Entries 101
Mean −0.005819
Std Dev 0.9339

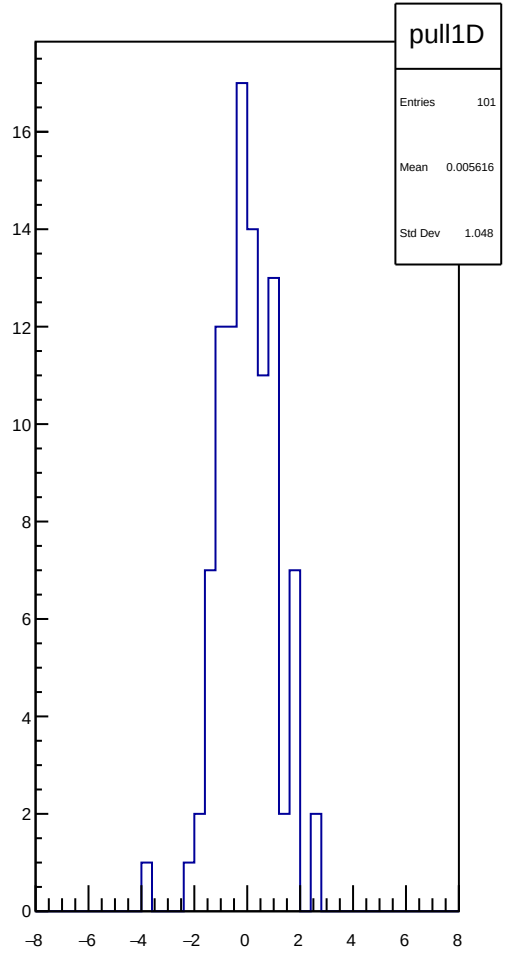

diff_targ_thetaX_rms vs run
χ² / ndf 2975 / 100
p0 440.4 ± 0.3175
500
480
460
440
420
400

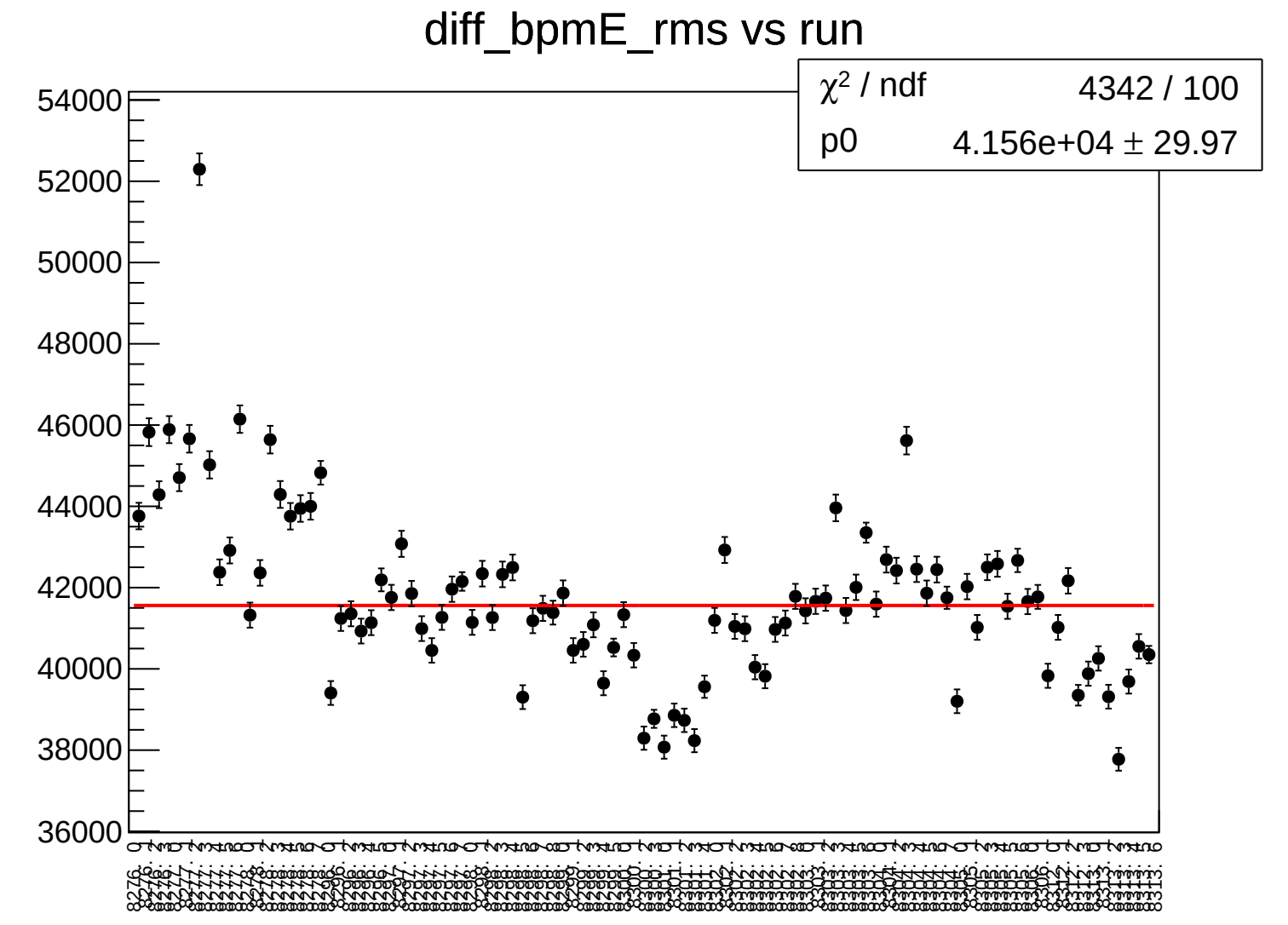

diff_targ_thetaY_mean vs run
χ^2 / ndf 94.11 / 100
p0 0.1195 ± 0.1985
pull
Entries 101
Mean 1757
Std Dev 0

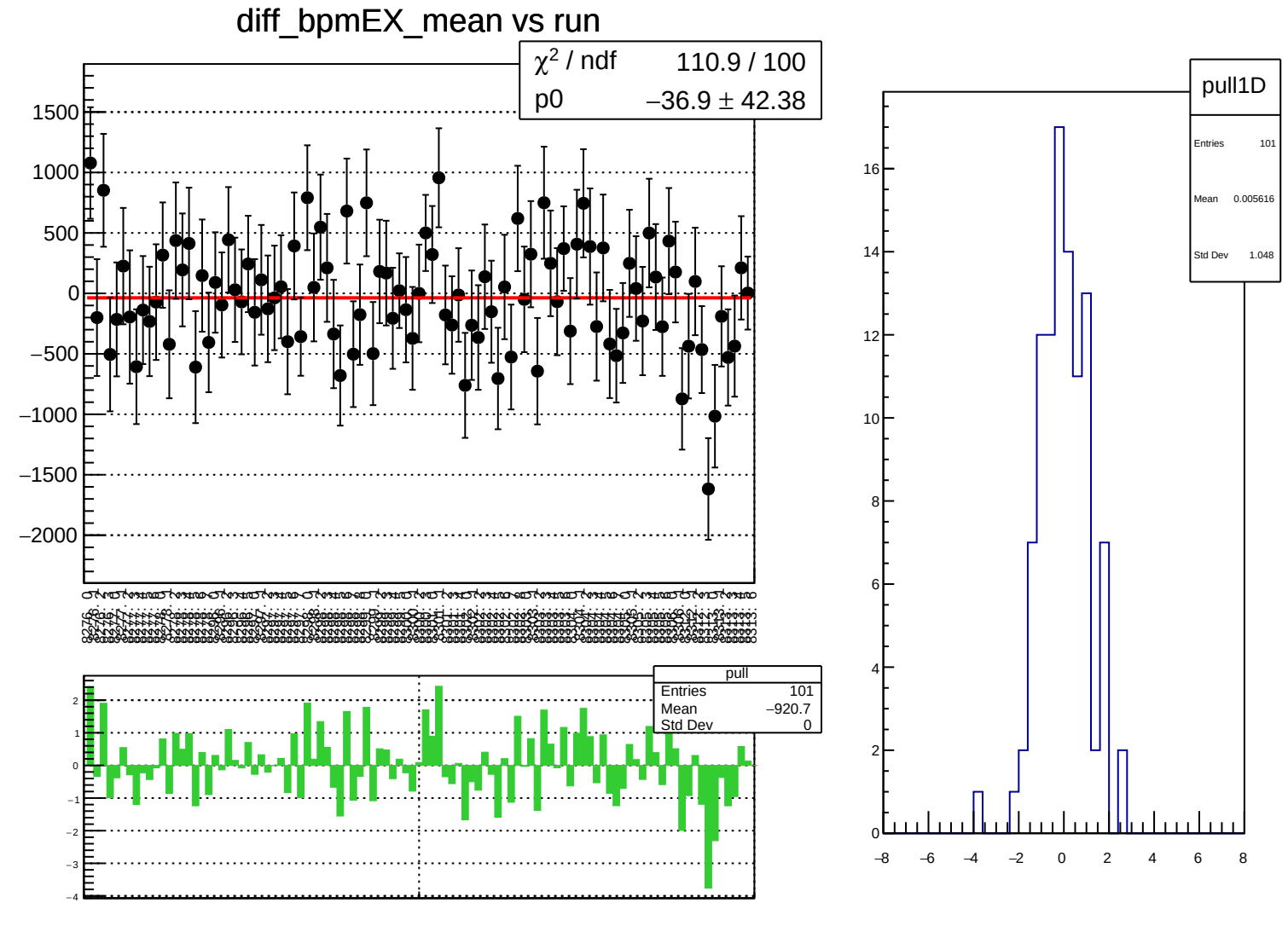

pull1D
Entries 101
Mean −0.001992
Std Dev 0.9653

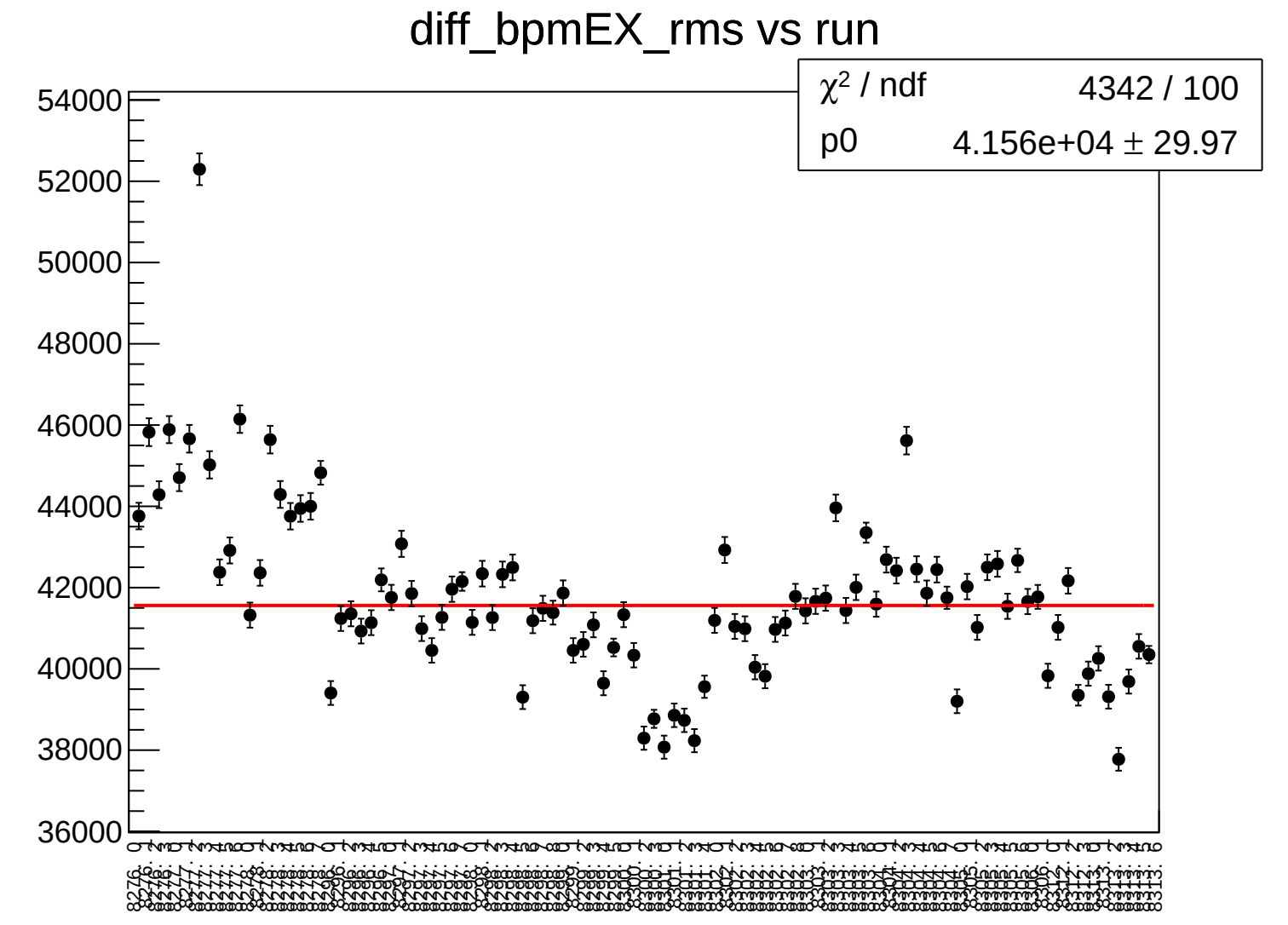

diff_targ_thetaY_rms vs run
χ² / ndf 795.9 / 100
p0 194.9 ± 0.1404
205
200
195
190
185

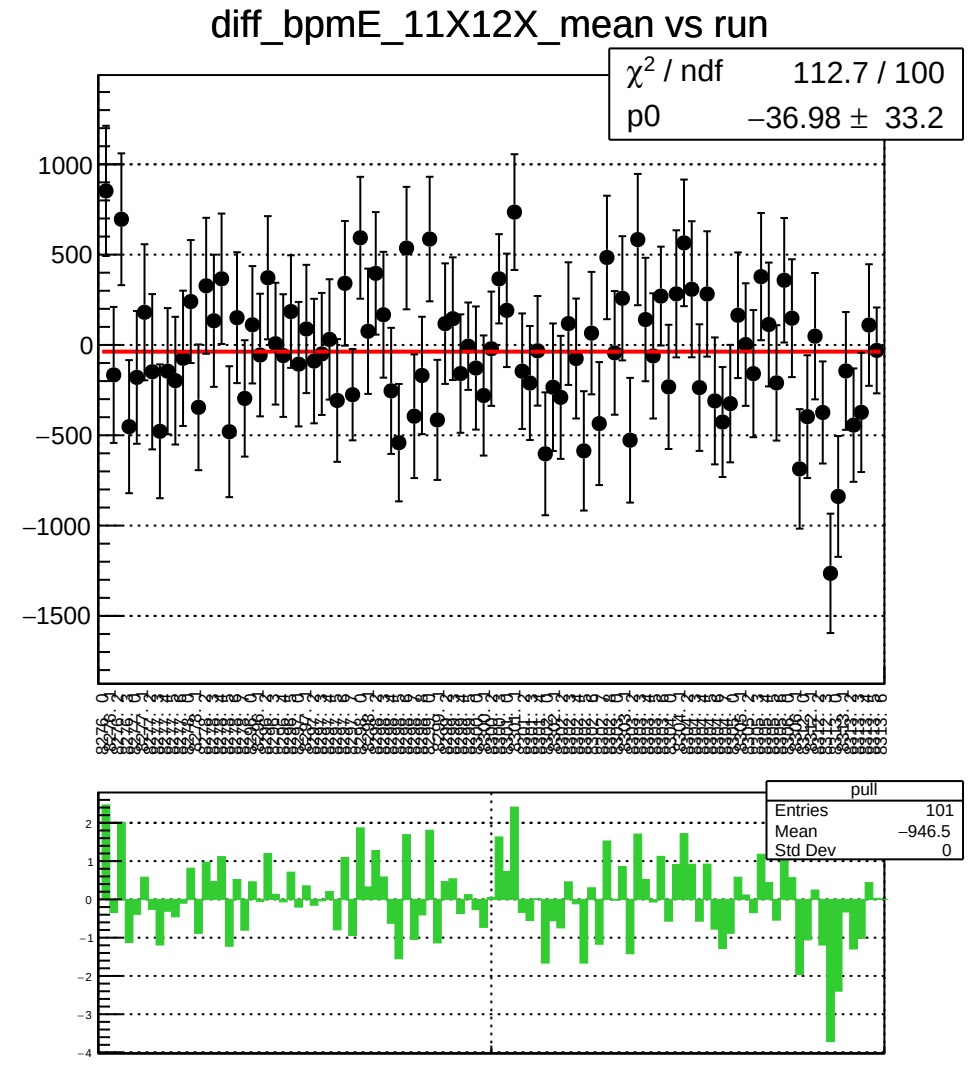

diff_bpmE_mean vs run
χ² / ndf 110.9 / 100
p0 −36.9 ± 42.38
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 101
Mean −920.7
Std Dev 0
2
1
0
−1
−2
−3
−4

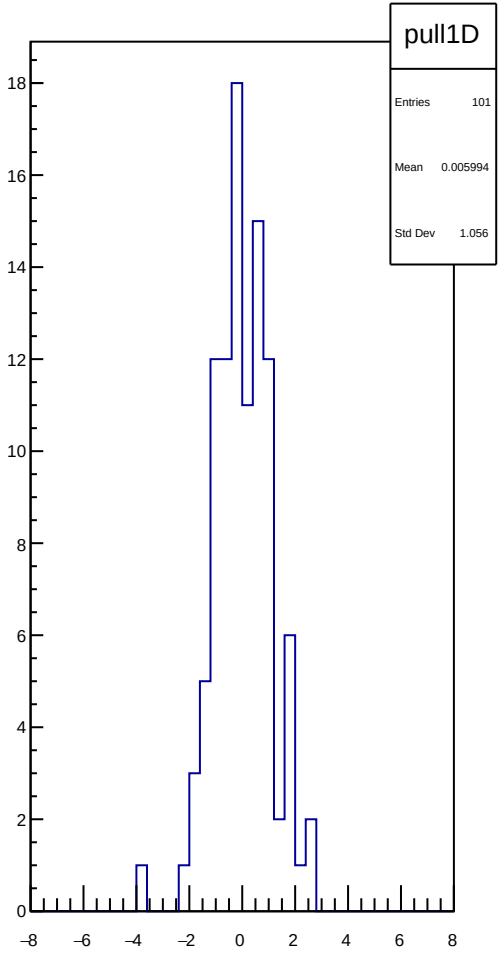

pull1D
Entries 101
Mean 0.005616
Std Dev 1.048
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

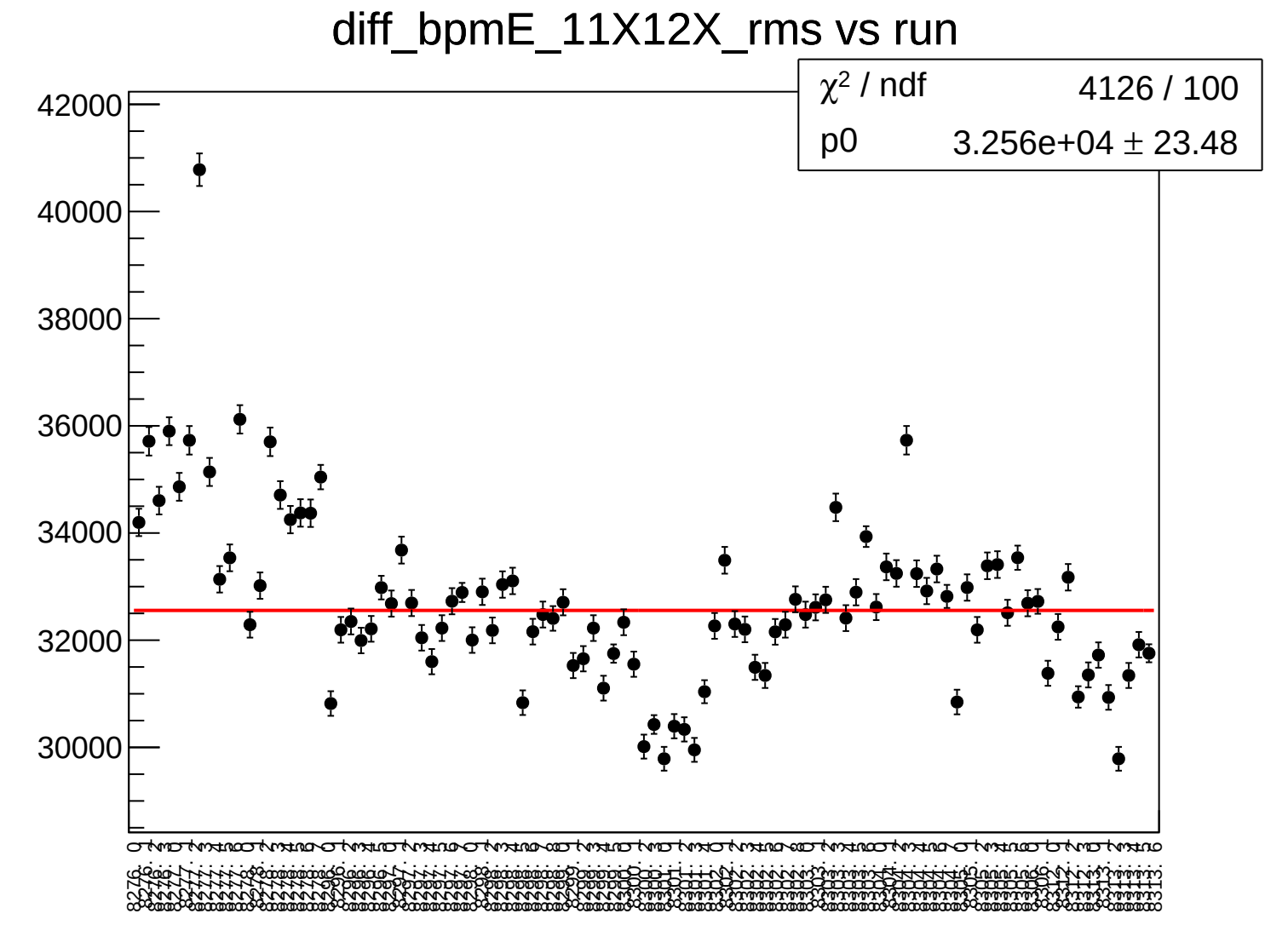

diff_bpmE_rms vs run
χ² / ndf 4342 / 100
p0 4.156e+04 ± 29.97
54000
52000
50000
48000
46000
44000
42000
40000
38000
36000

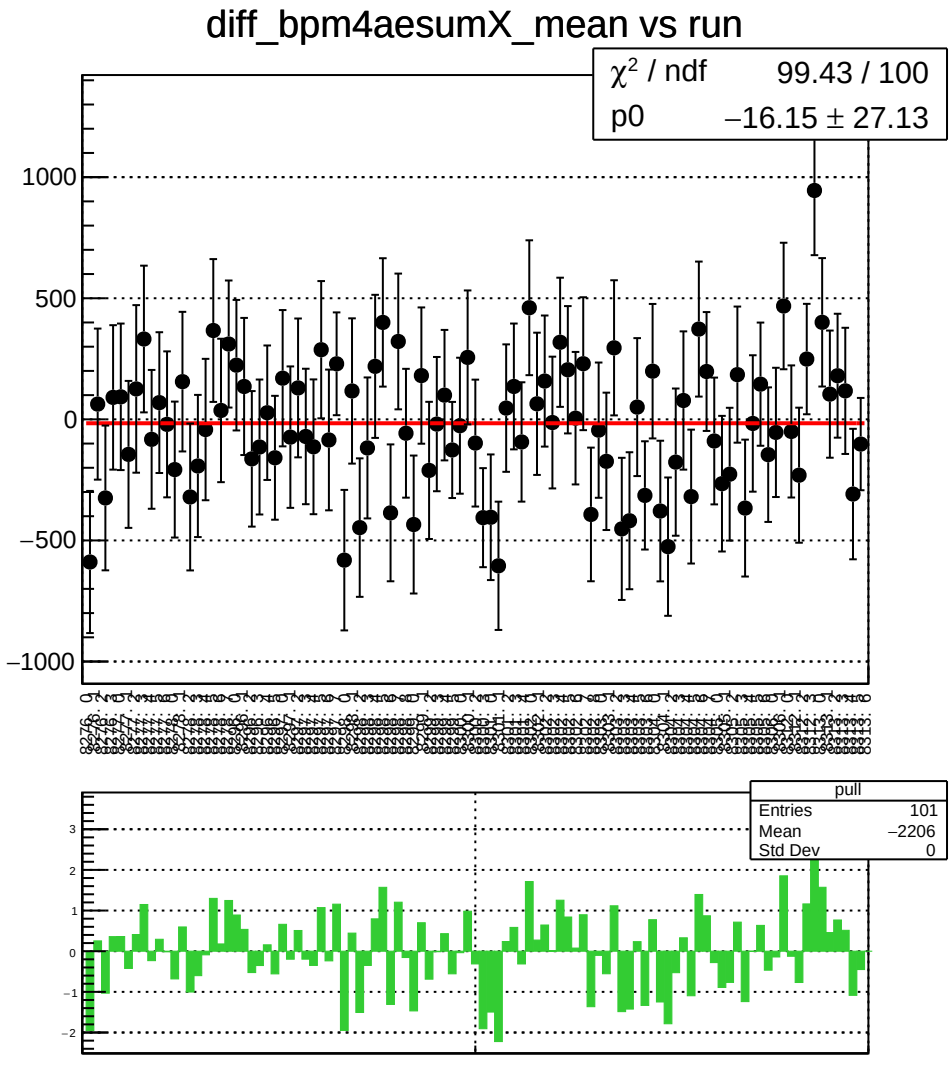

diff_bpmEX_mean vs run
χ² / ndf 110.9 / 100
p0 −36.9 ± 42.38
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 101
Mean −920.7
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 101
Mean 0.005616
Std Dev 1.048
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

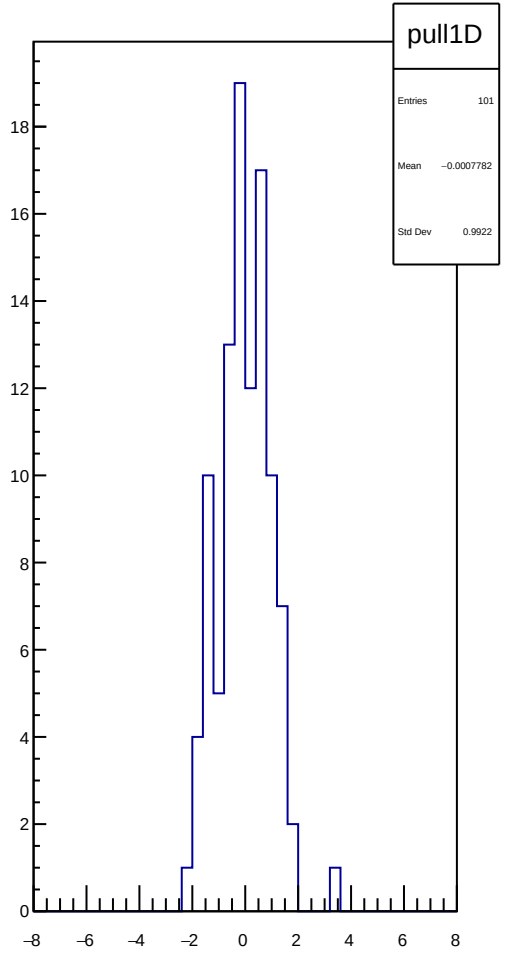

diff_bpmEX_rms vs run
χ² / ndf 4342 / 100
p0 4.156e+04 ± 29.97
54000
52000
50000
48000
46000
44000
42000
40000
38000
36000

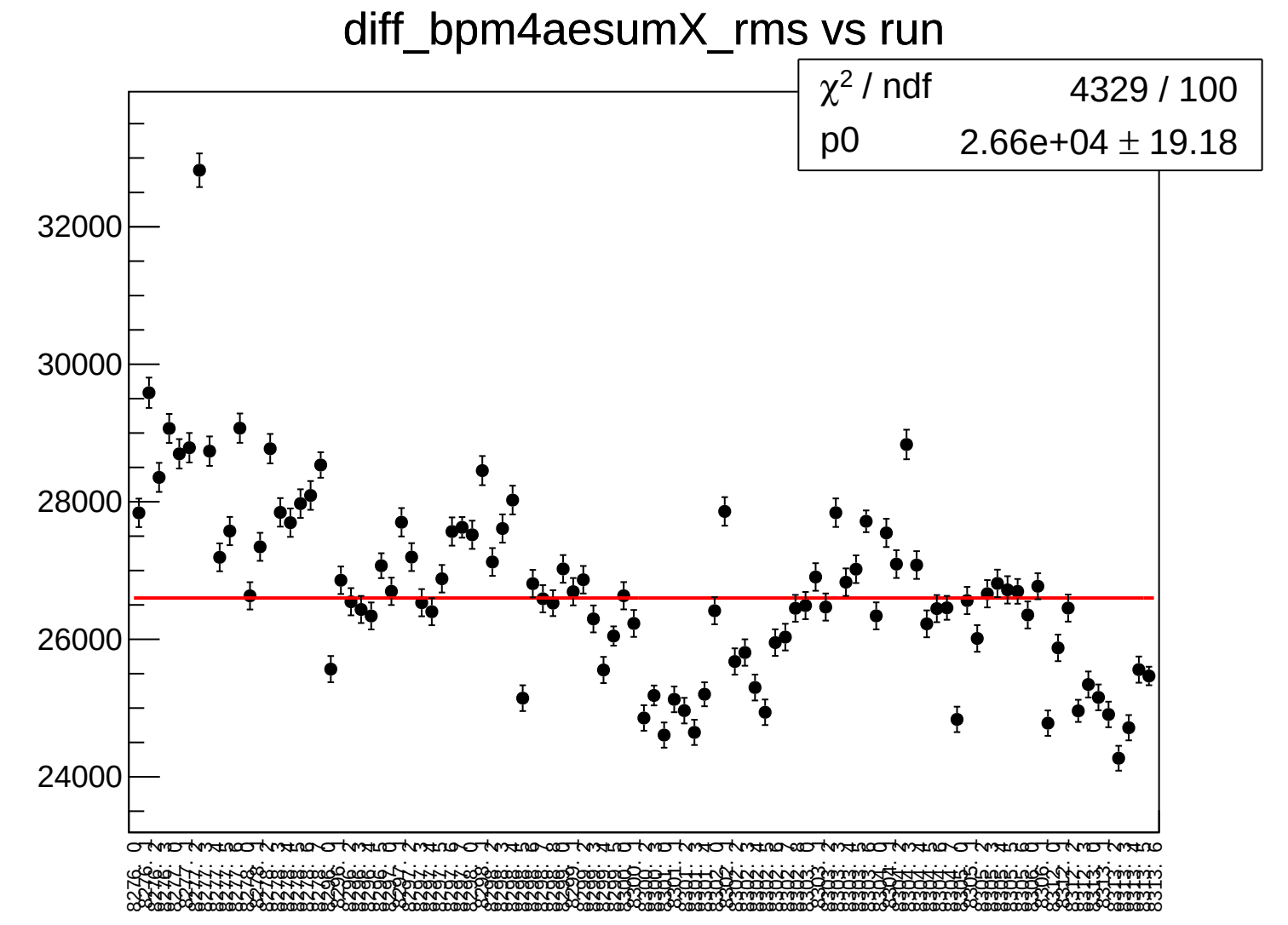

diff_bpmE_11X12X_mean vs run
χ² / ndf 112.7 / 100
p0 −36.98 ± 33.2
1000
500
0
−500
−1000
−1500
pull
Entries 101
Mean −946.5
Std Dev 0
2
1
0
−1
−2
−3
−4

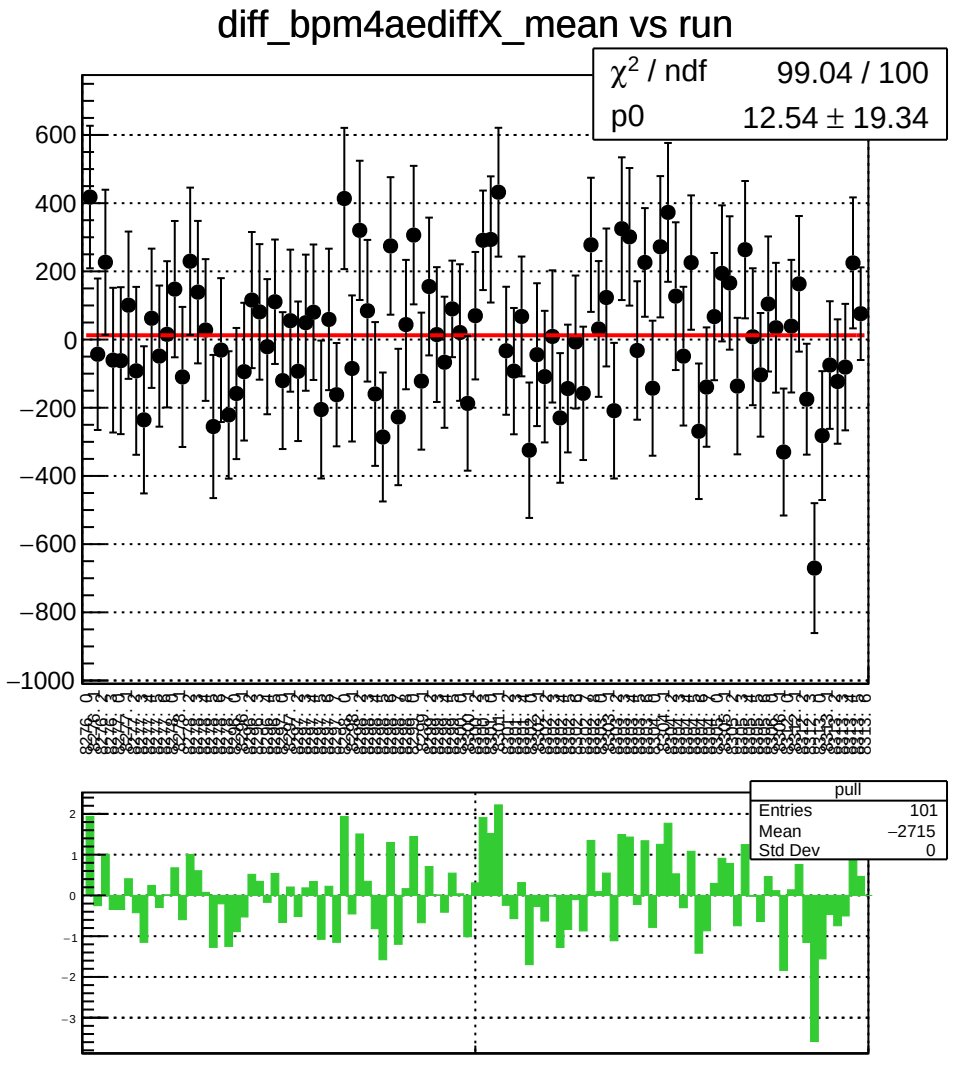

pull1D
Entries 101
Mean 0.005994
Std Dev 1.056
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

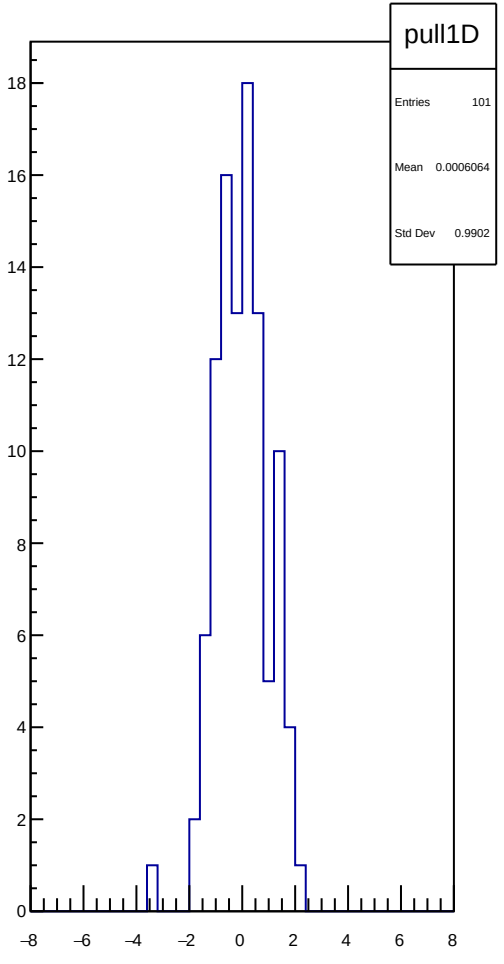

diff_bpmE_11X12X_rms vs run
χ² / ndf 4126 / 100
p0 3.256e+04 ± 23.48
42000
40000
38000
36000
34000
32000
30000


diff_bpm4aesumX_mean vs run
χ² / ndf 99.43 / 100
p0 −16.15 ± 27.13
1000
500
0
−500
−1000
pull
Entries 101
Mean −2206
Std Dev 0
3
2
1
0
−1
−2

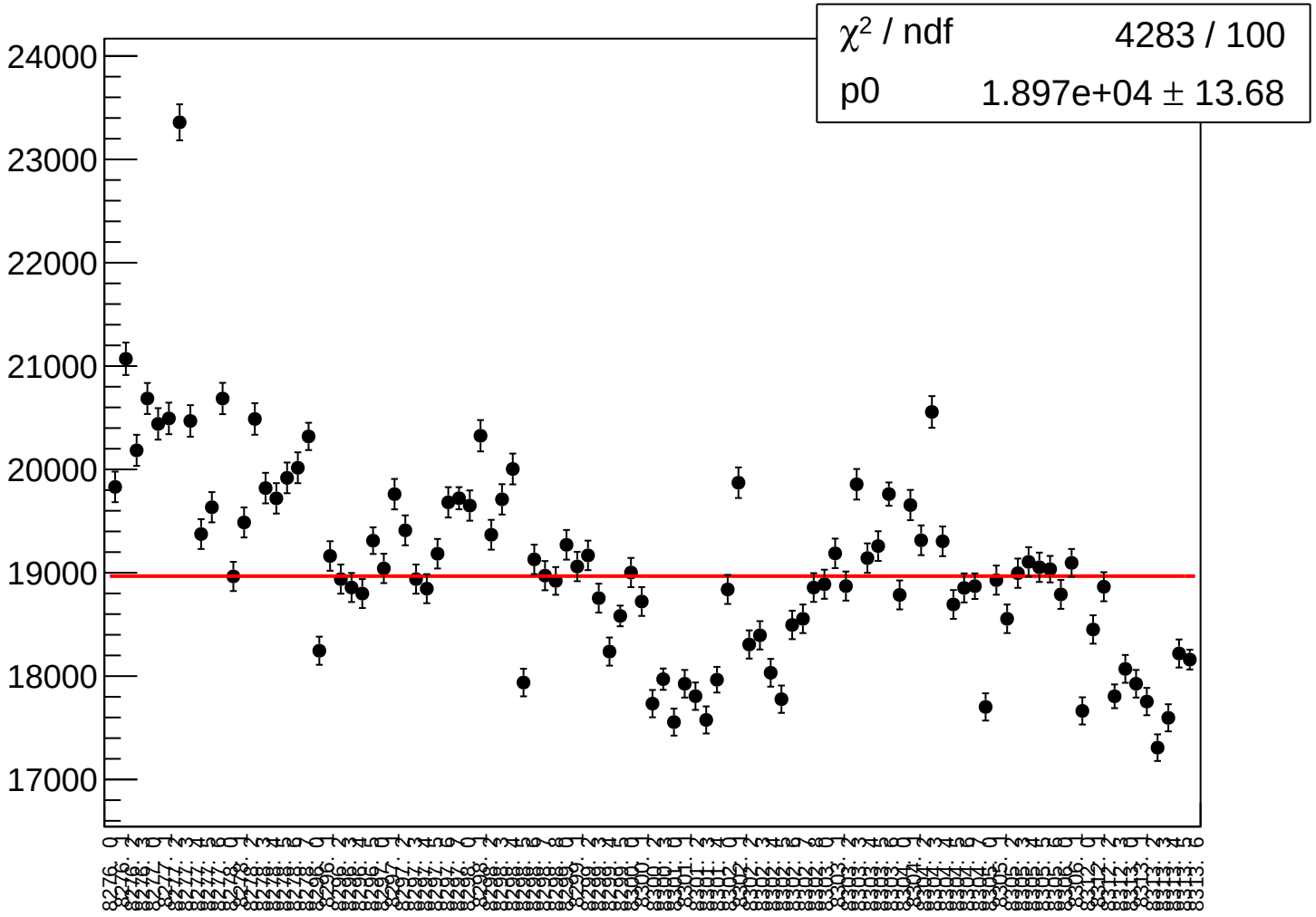

pull1D
Entries 101
Mean −0.0007782
Std Dev 0.9922
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

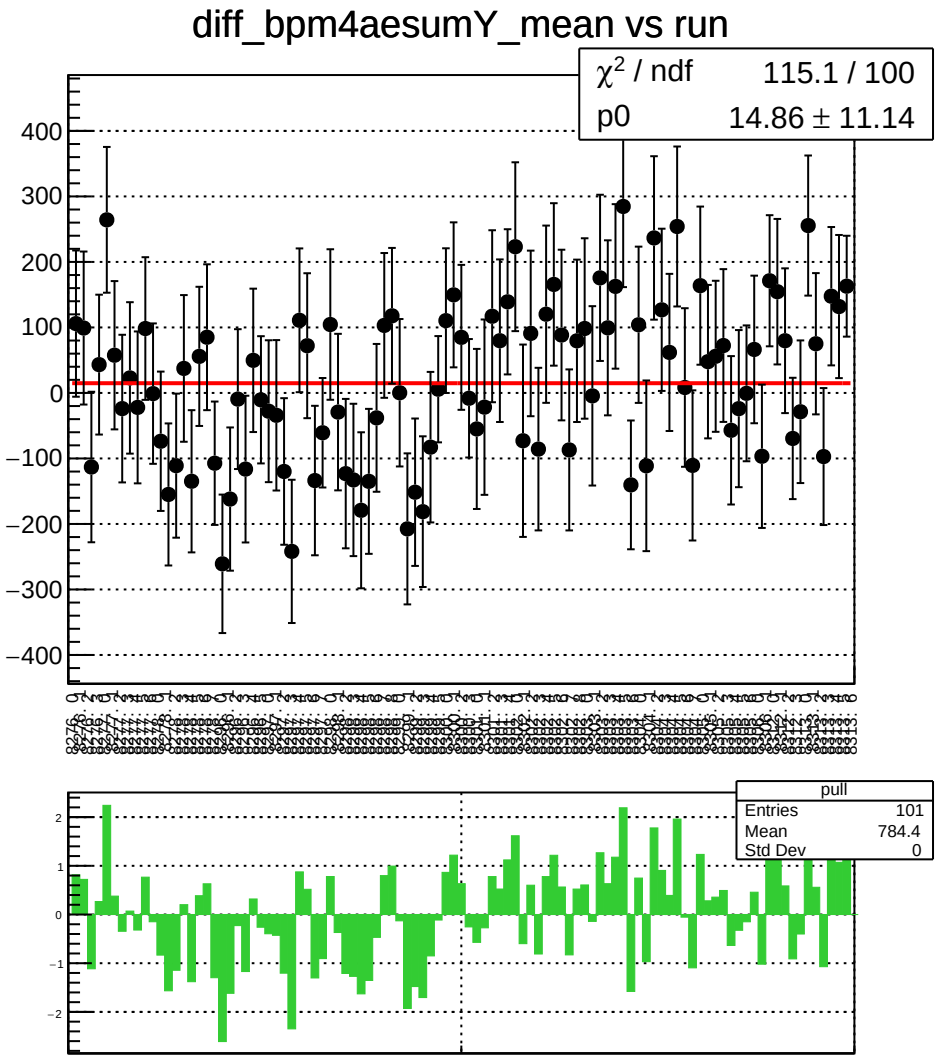

diff_bpm4aesumX_rms vs run
χ² / ndf 4329 / 100
p0 2.66e+04 ± 19.18
32000
30000
28000
26000
24000

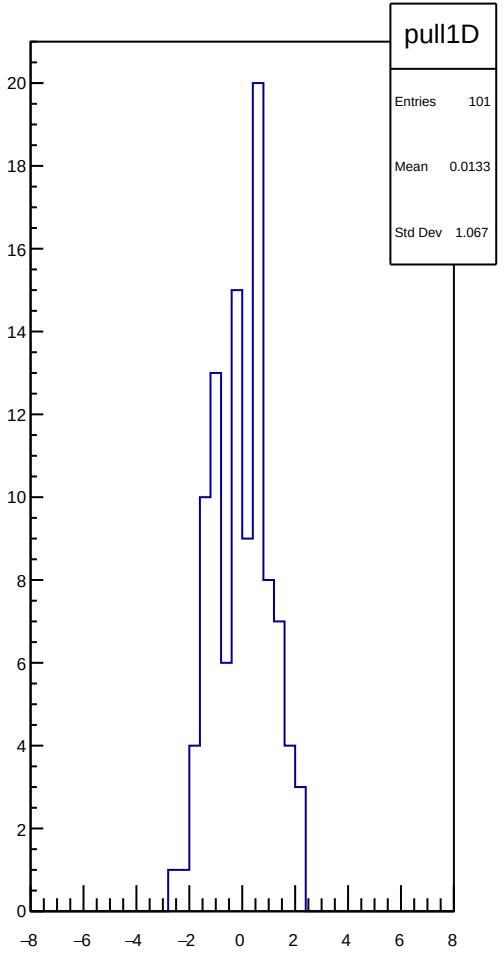

diff_bpm4aediffX_mean vs run
χ² / ndf 99.04 / 100
p0 12.54 ± 19.34
pull
Entries 101
Mean −2715
Std Dev 0

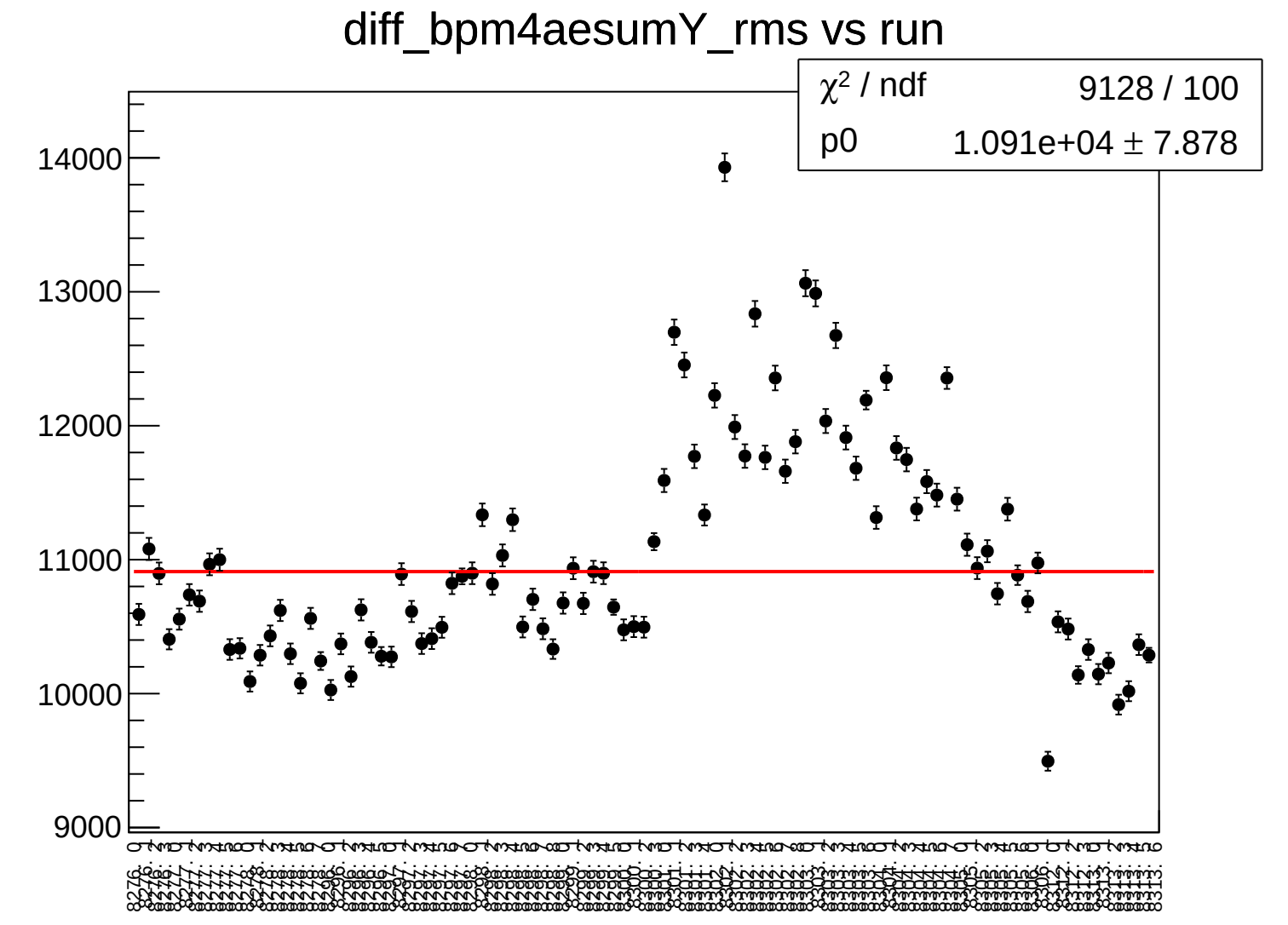

pull1D
Entries 101
Mean 0.0006064
Std Dev 0.9902

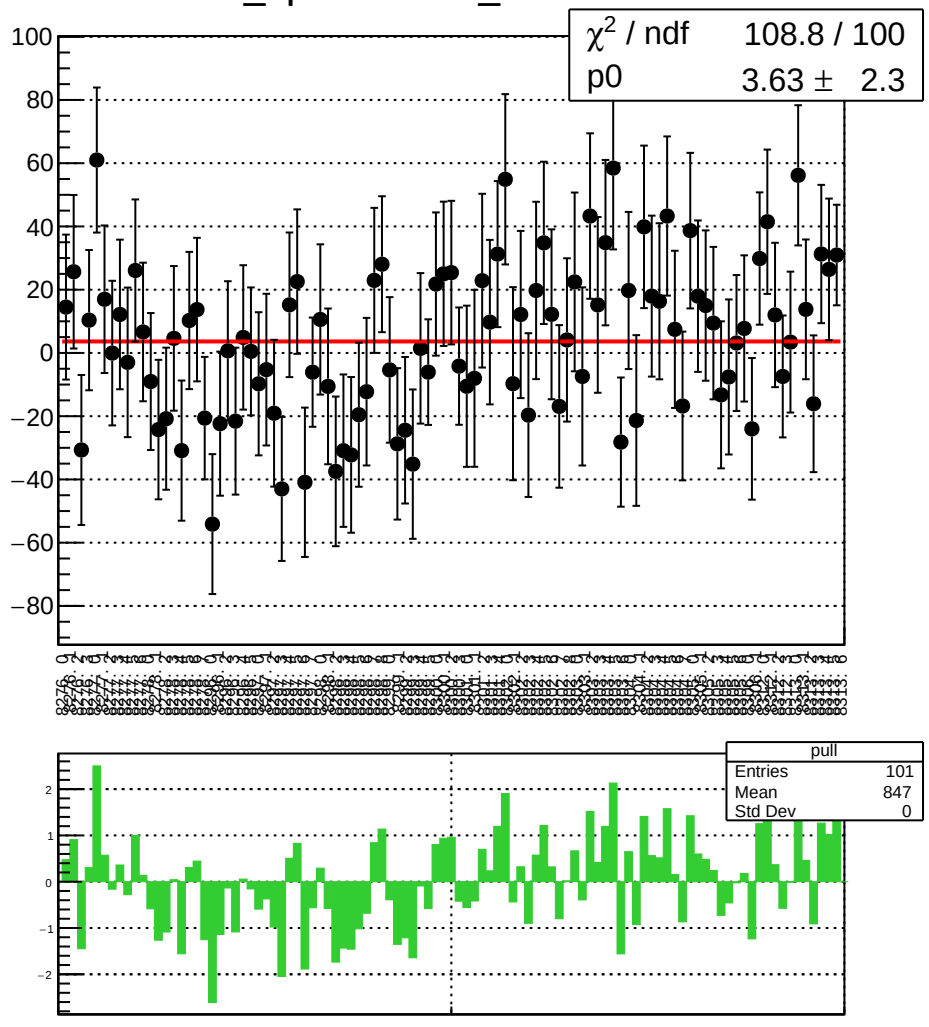
diff_bpm4aediffX_rms vs run

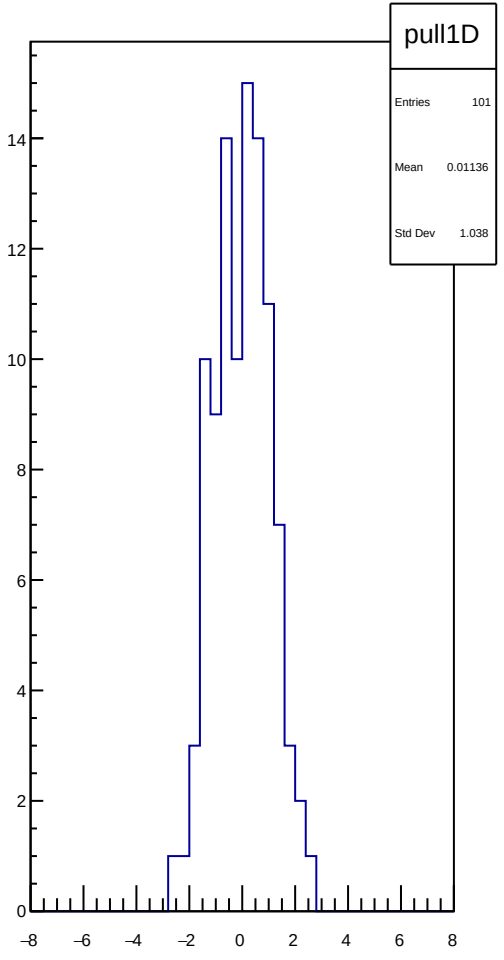


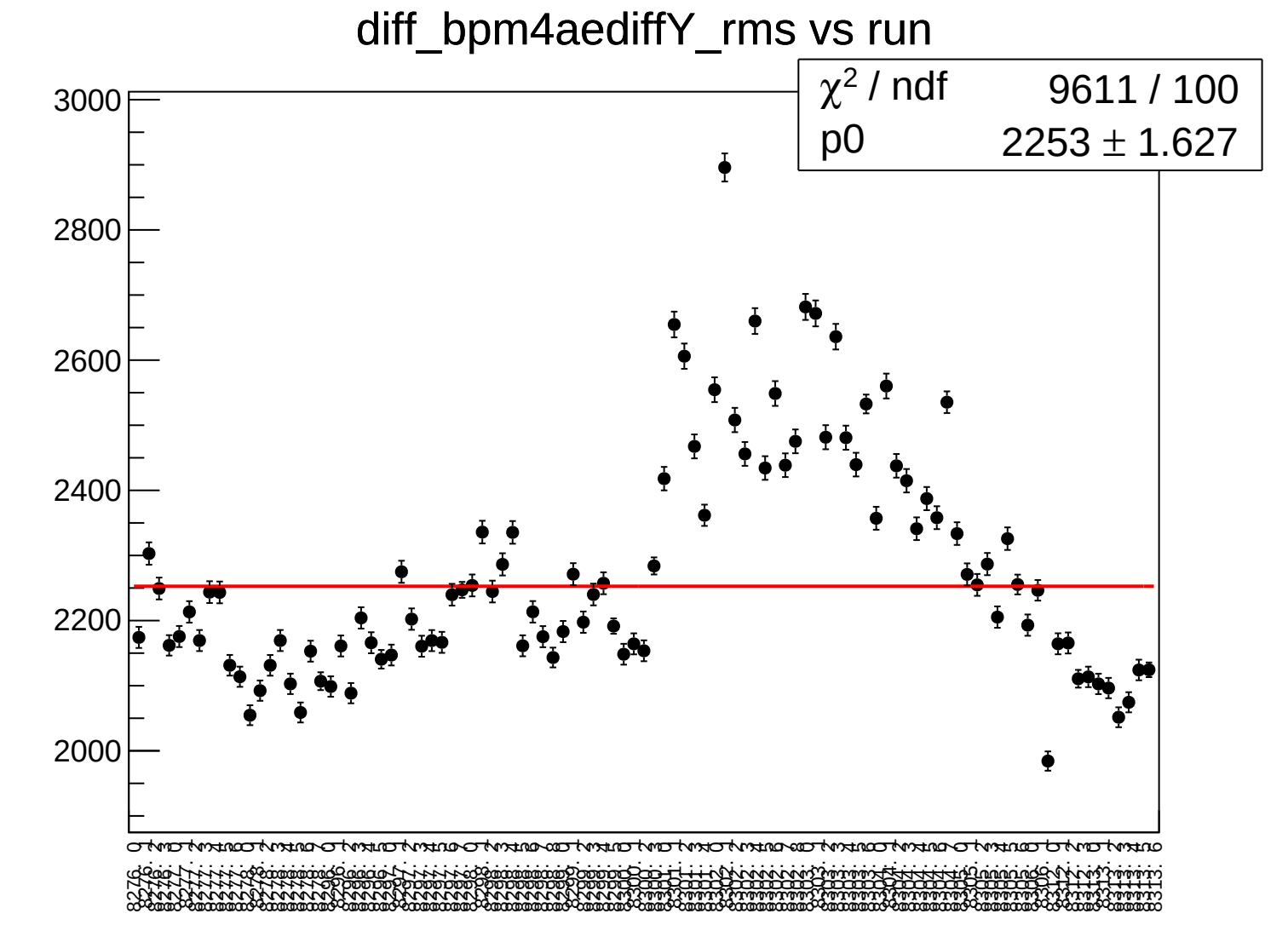

diff_bpm4aesumY_mean vs run
χ² / ndf 115.1 / 100
p0 14.86 ± 11.14
pull
Entries 101
Mean 784.4
Std Dev 0

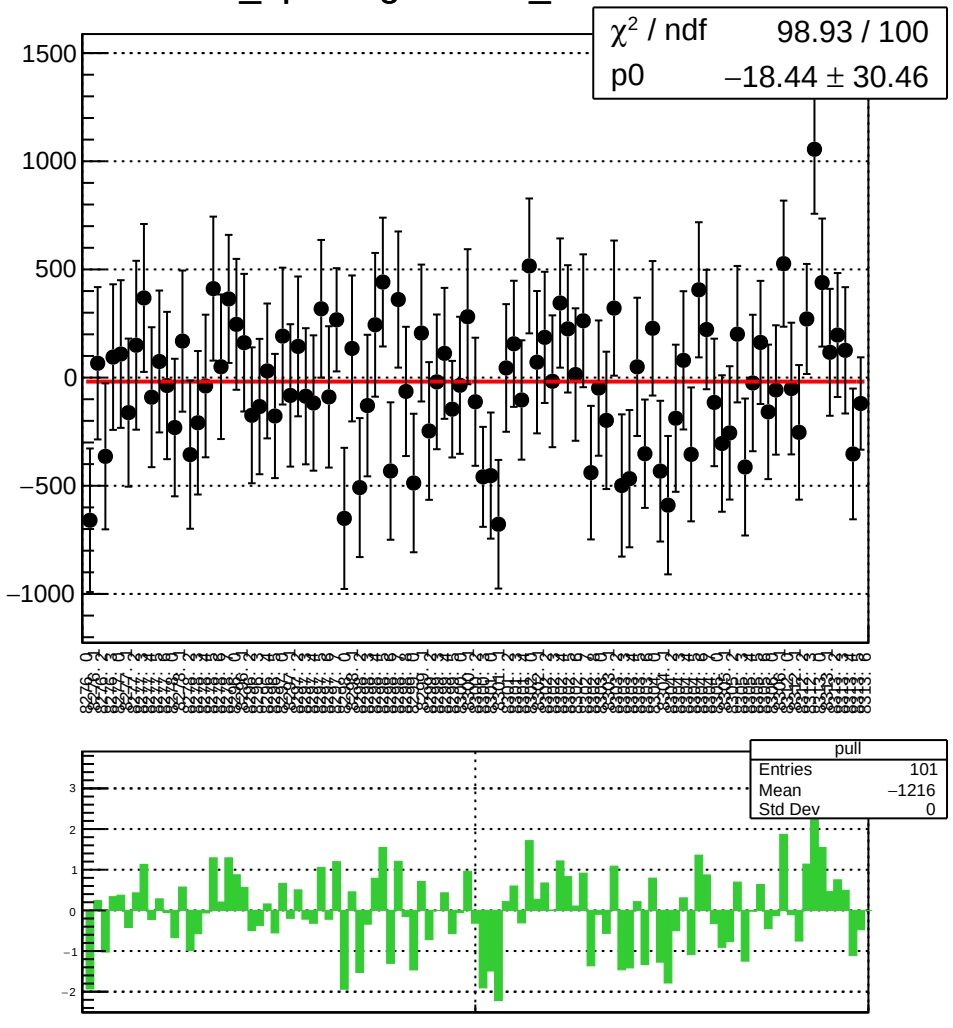

pull1D
Entries 101
Mean 0.0133
Std Dev 1.067

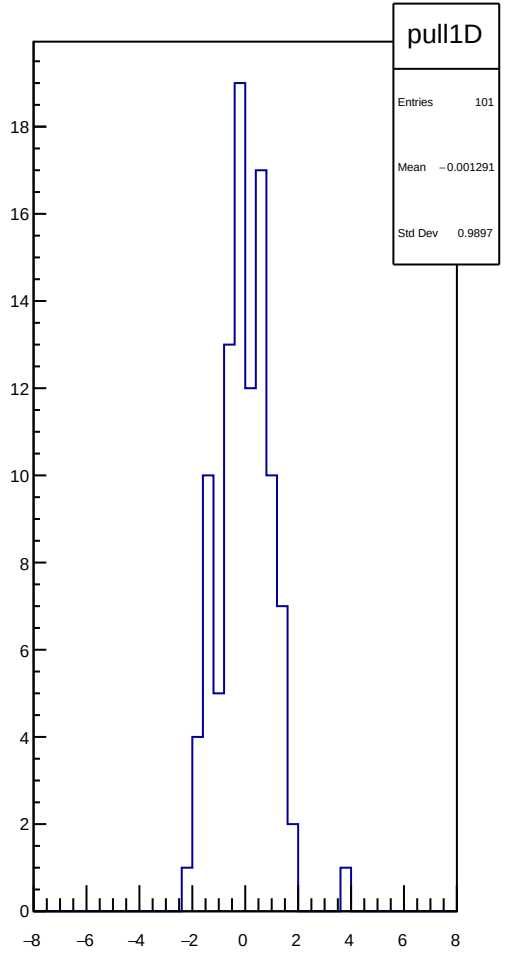

diff_bpm4aesumY_rms vs run
χ² / ndf 9128 / 100
p0 1.091e+04 ± 7.878
14000
13000
12000
11000
10000
9000

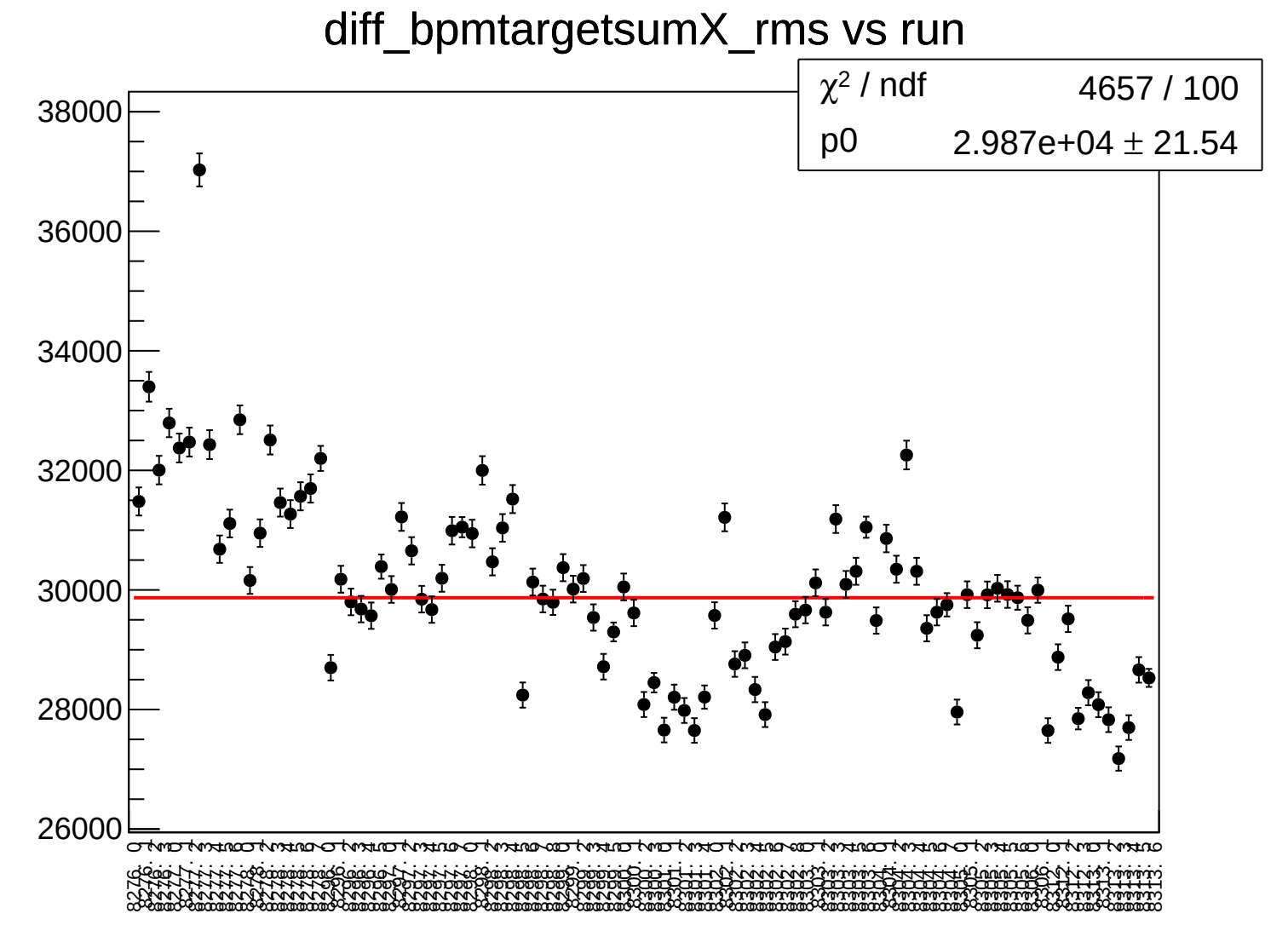

diff_bpm4aediffY_mean vs run
χ² / ndf 108.8 / 100
p0 3.63 ± 2.3
pull
Entries 101
Mean 847
Std Dev 0

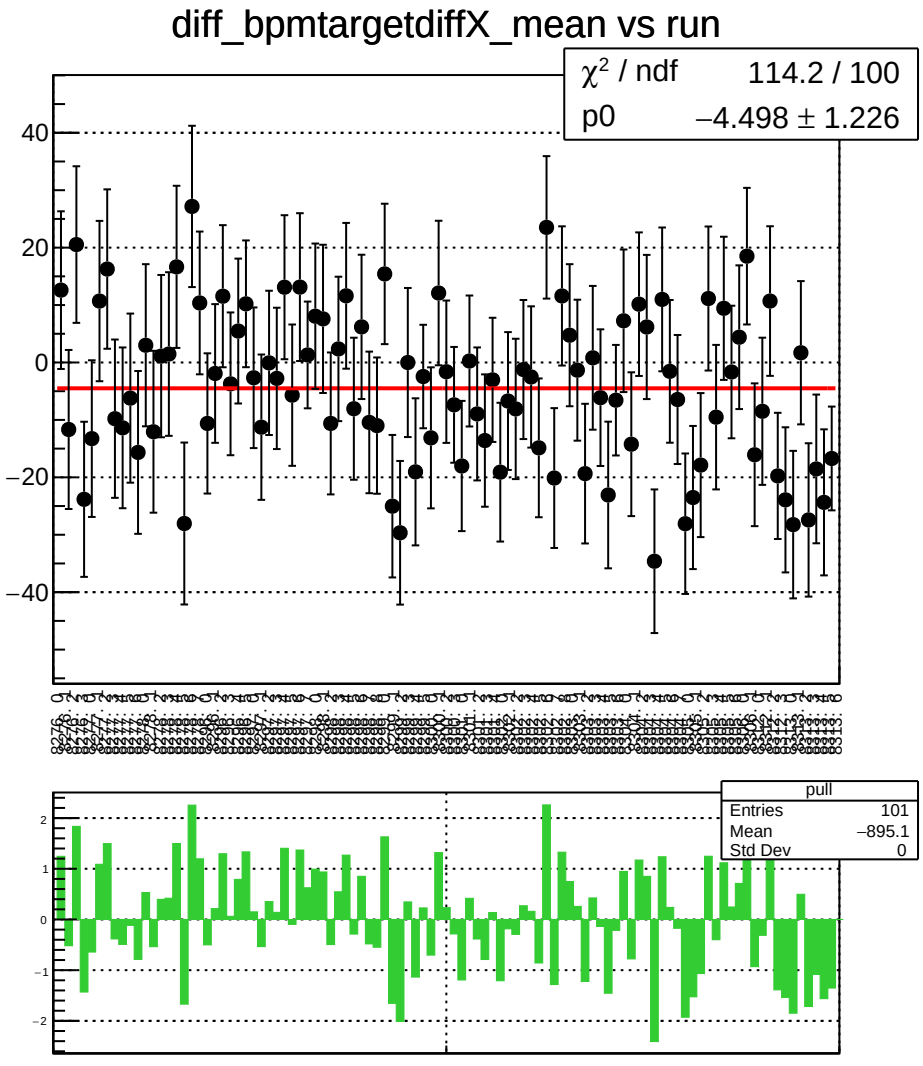

pull1D
Entries 101
Mean 0.01136
Std Dev 1.038

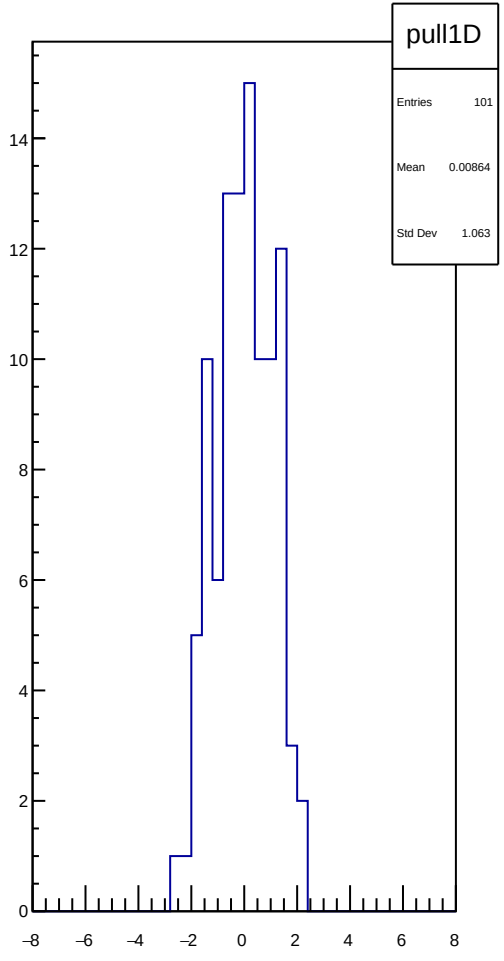

diff_bpm4aediffY_rms vs run
χ² / ndf 9611 / 100
p0 2253 ± 1.627
3000
2800
2600
2400
2200
2000

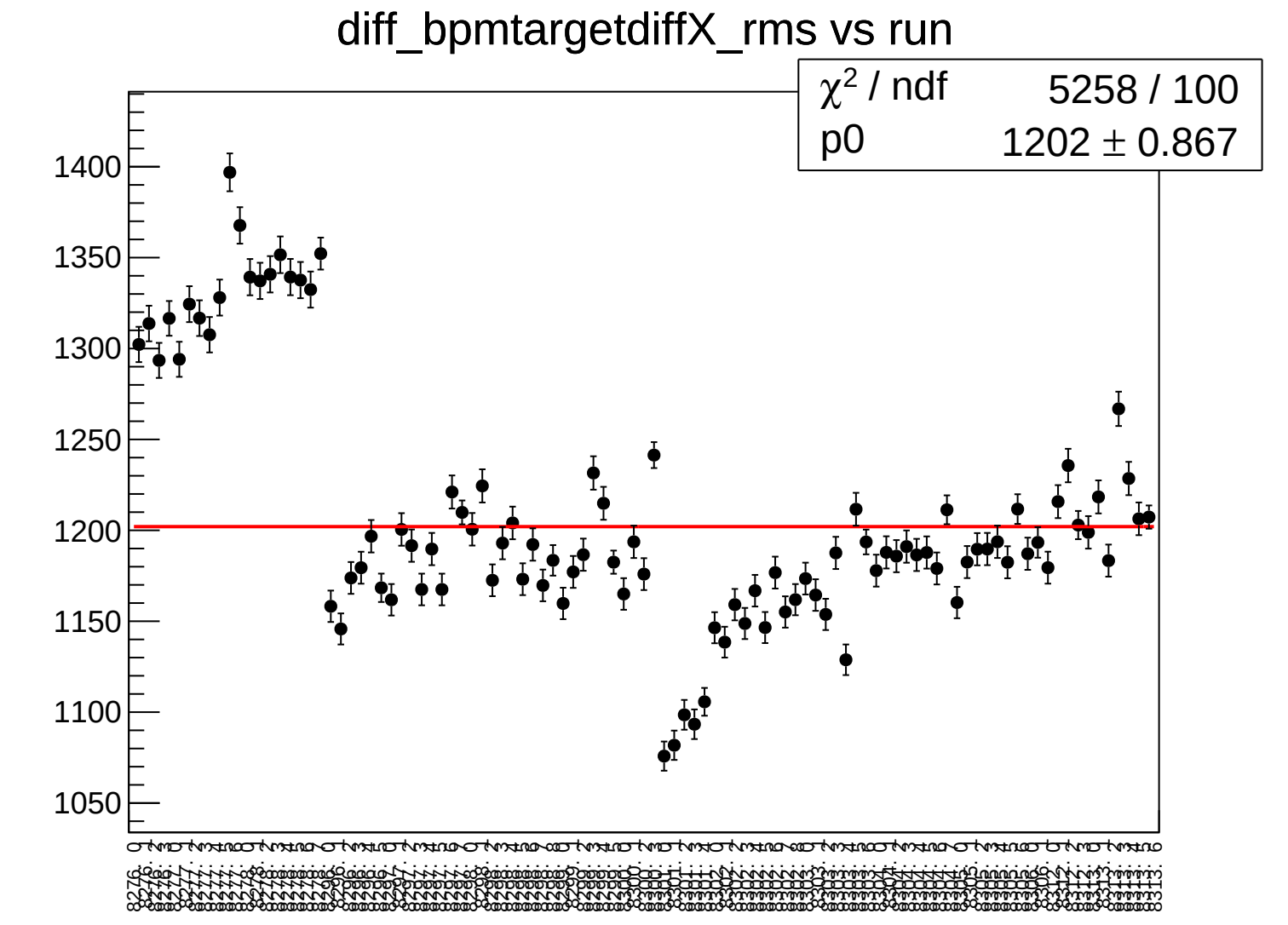

diff_bpmtargetsumX_mean vs run
χ² / ndf 98.93 / 100
p0 −18.44 ± 30.46
1500
1000
500
0
−500
−1000
pull
Entries 101
Mean −1216
Std Dev 0
3
2
1
0
−1
−2

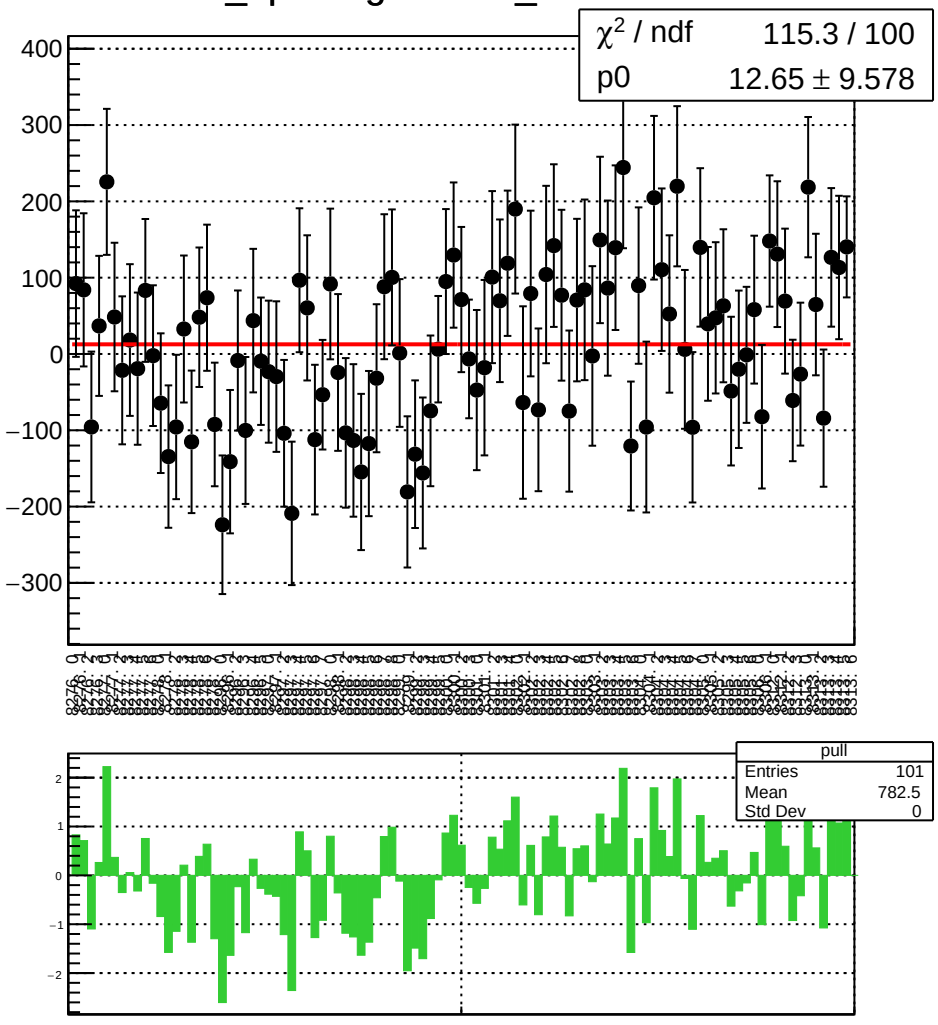

pull1D
Entries 101
Mean −0.001291
Std Dev 0.9897
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

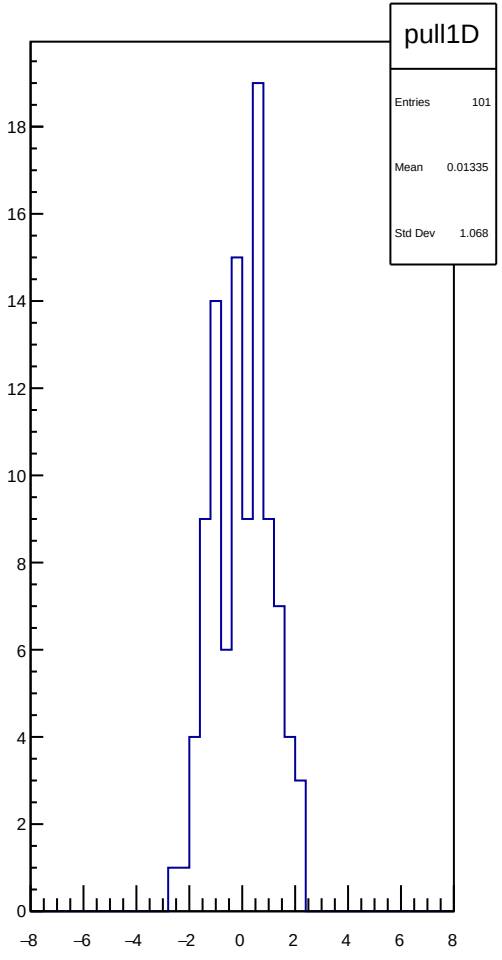

diff_bpmtargetsumX_rms vs run
χ² / ndf 4657 / 100
p0 2.987e+04 ± 21.54
38000
36000
34000
32000
30000
28000
26000

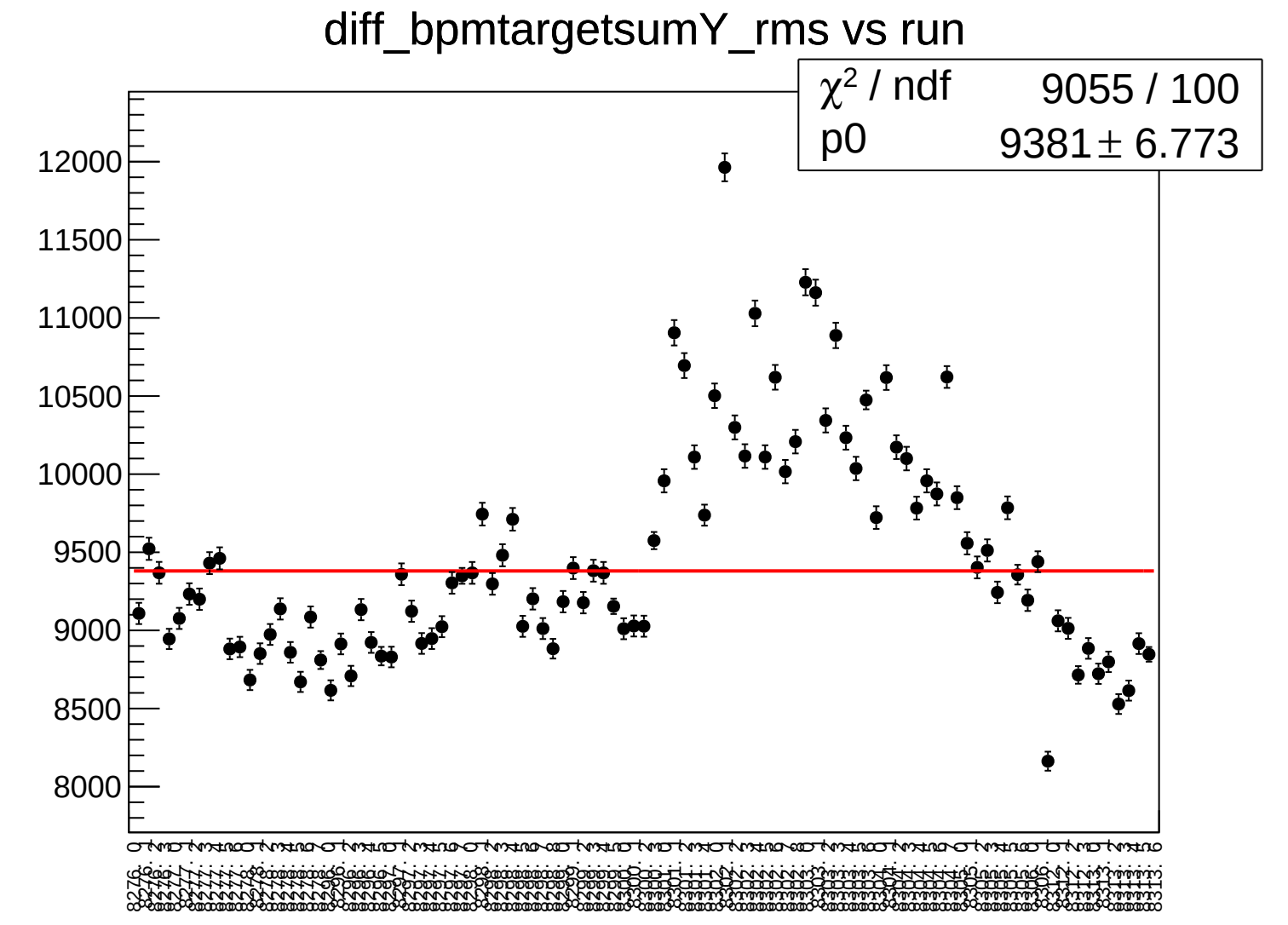

diff_bpmtargetdiffX_mean vs run
χ² / ndf 114.2 / 100
p0 −4.498 ± 1.226
40
20
0
−20
−40
pull
Entries 101
Mean −895.1
Std Dev 0
2
1
0
−1
−2

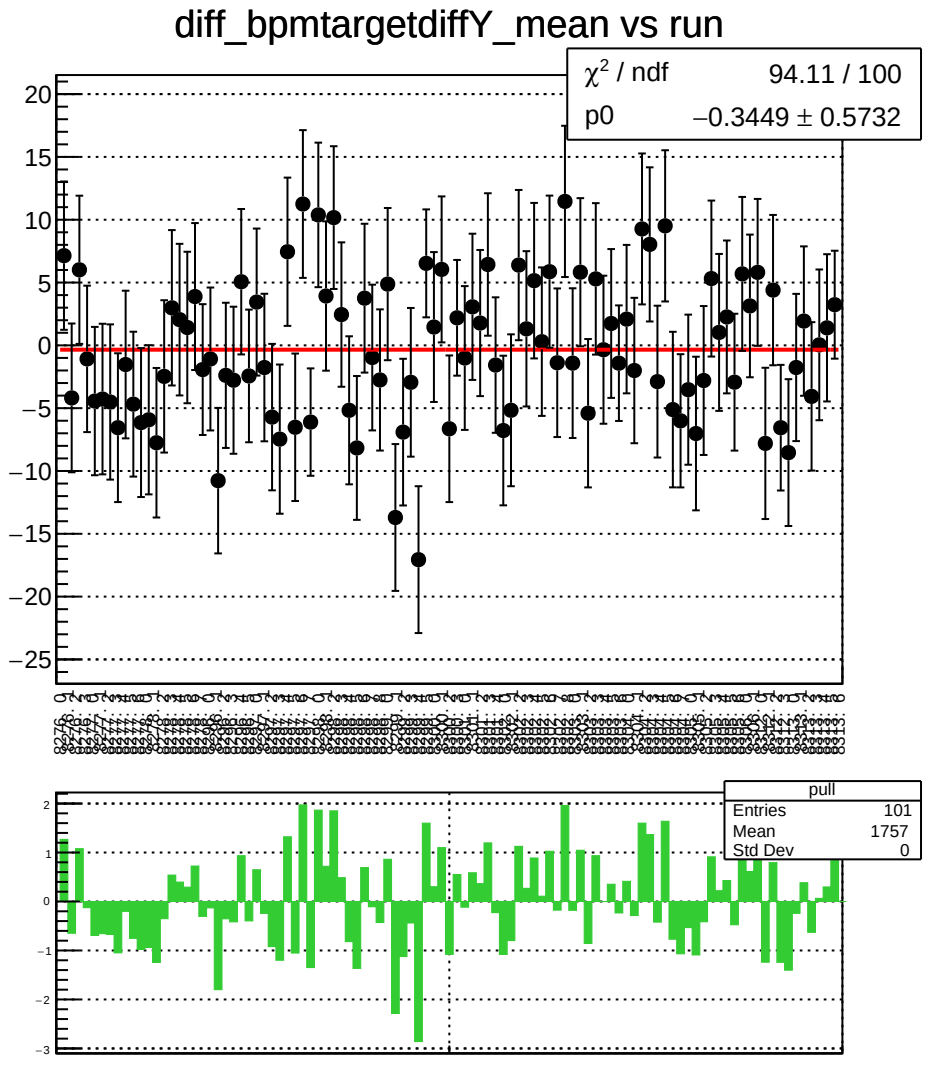

pull1D
Entries 101
Mean 0.00864
Std Dev 1.063
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

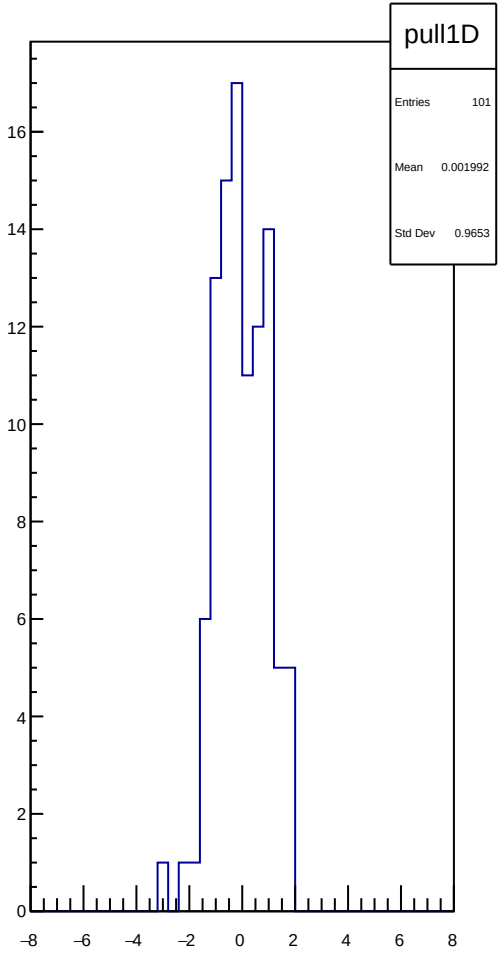

diff_bpmtargetdiffX_rms vs run
χ² / ndf 5258 / 100
p0 1202 ± 0.867
1400
1350
1300
1250
1200
1150
1100
1050

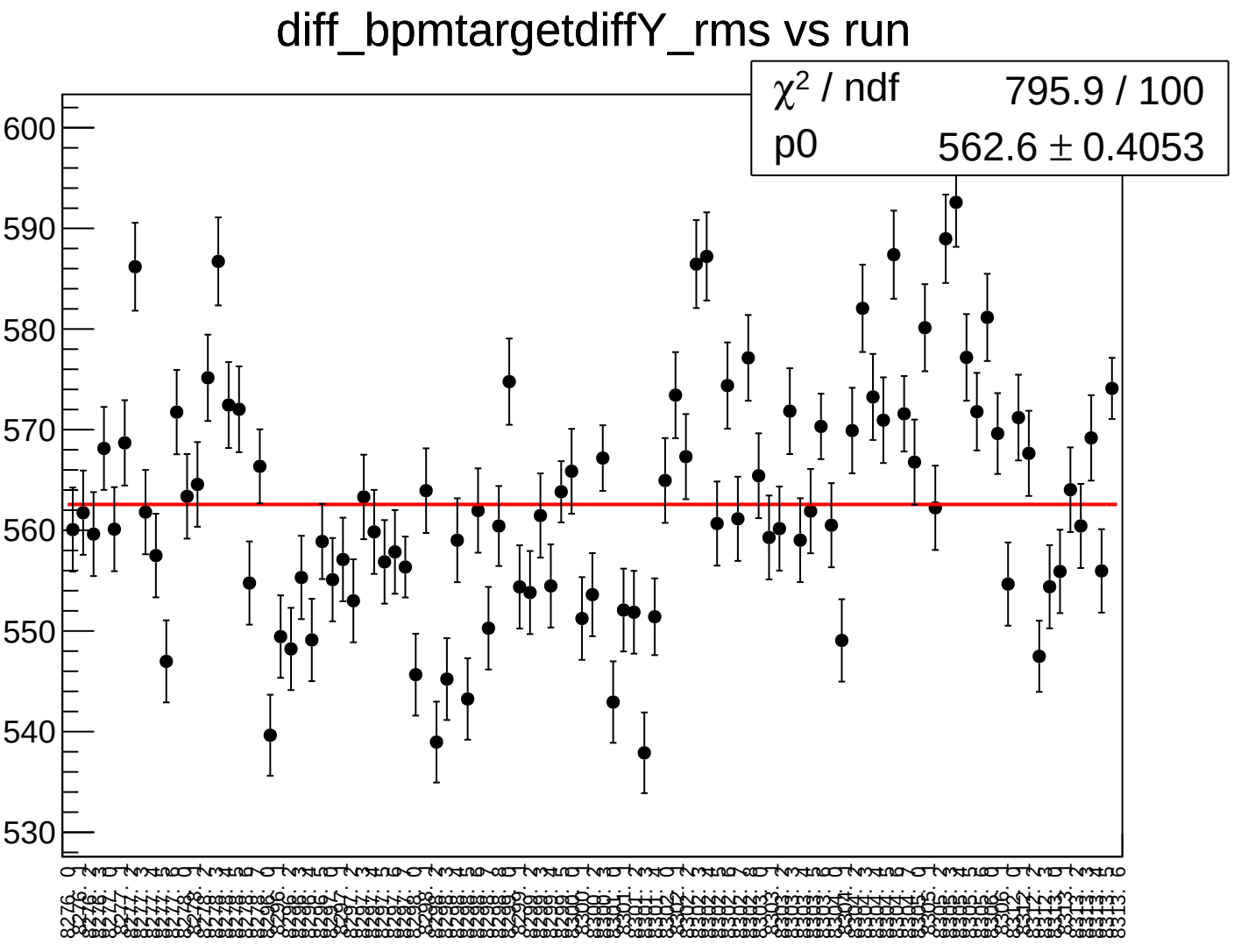

diff_bpmtargetsumY_mean vs run
χ² / ndf 115.3 / 100
p0 12.65 ± 9.578
pull
Entries 101
Mean 782.5
Std Dev 0

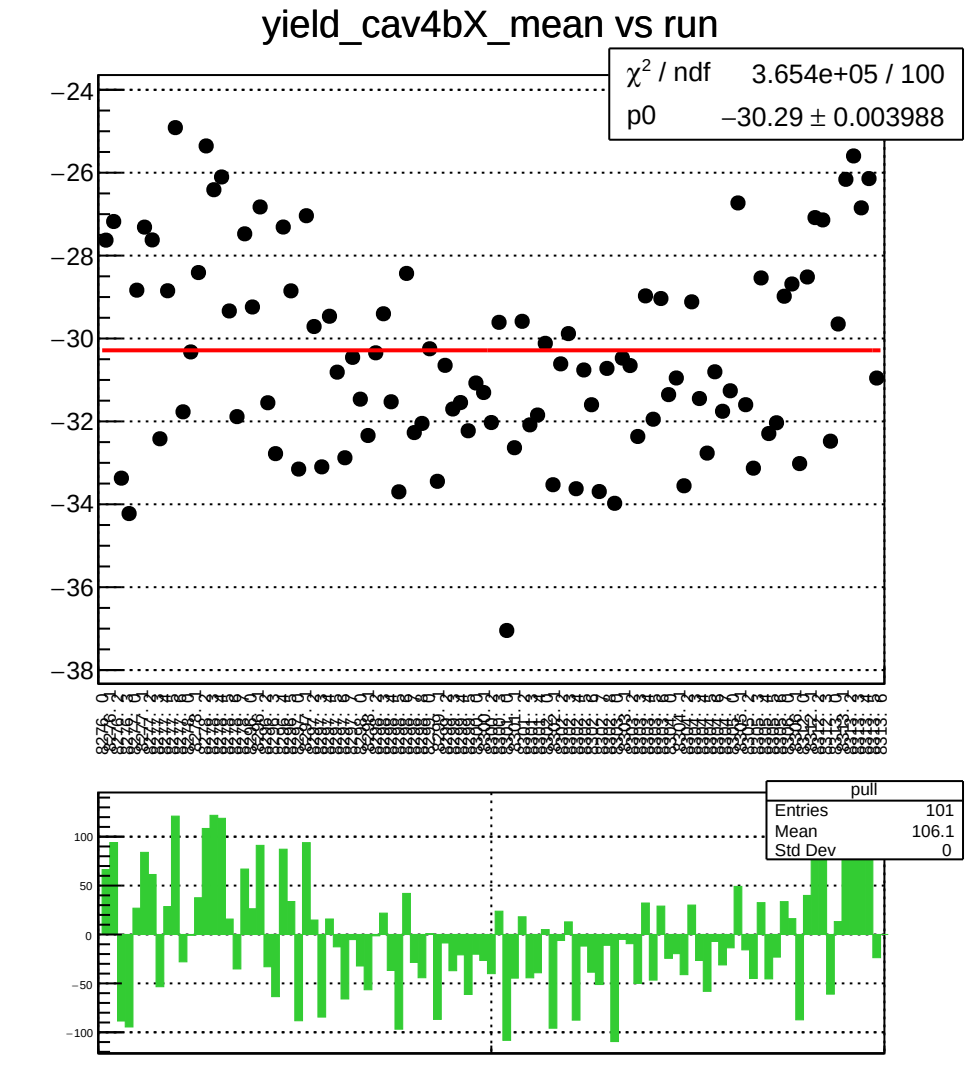

pull1D
Entries 101
Mean 0.01335
Std Dev 1.068

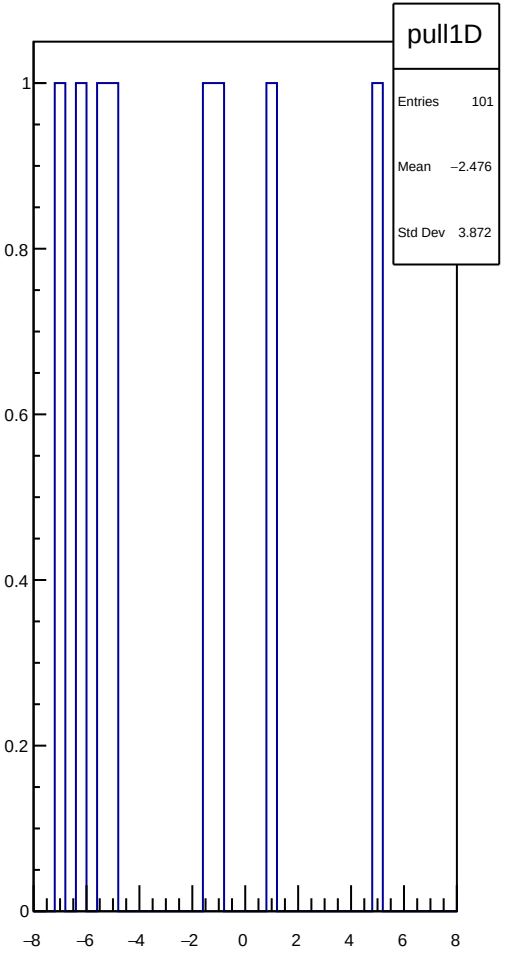

diff_bpmtargetsumY_rms vs run
χ² / ndf 9055 / 100
p0 9381 ± 6.773
12000
11500
11000
10500
10000
9500
9000
8500
8000

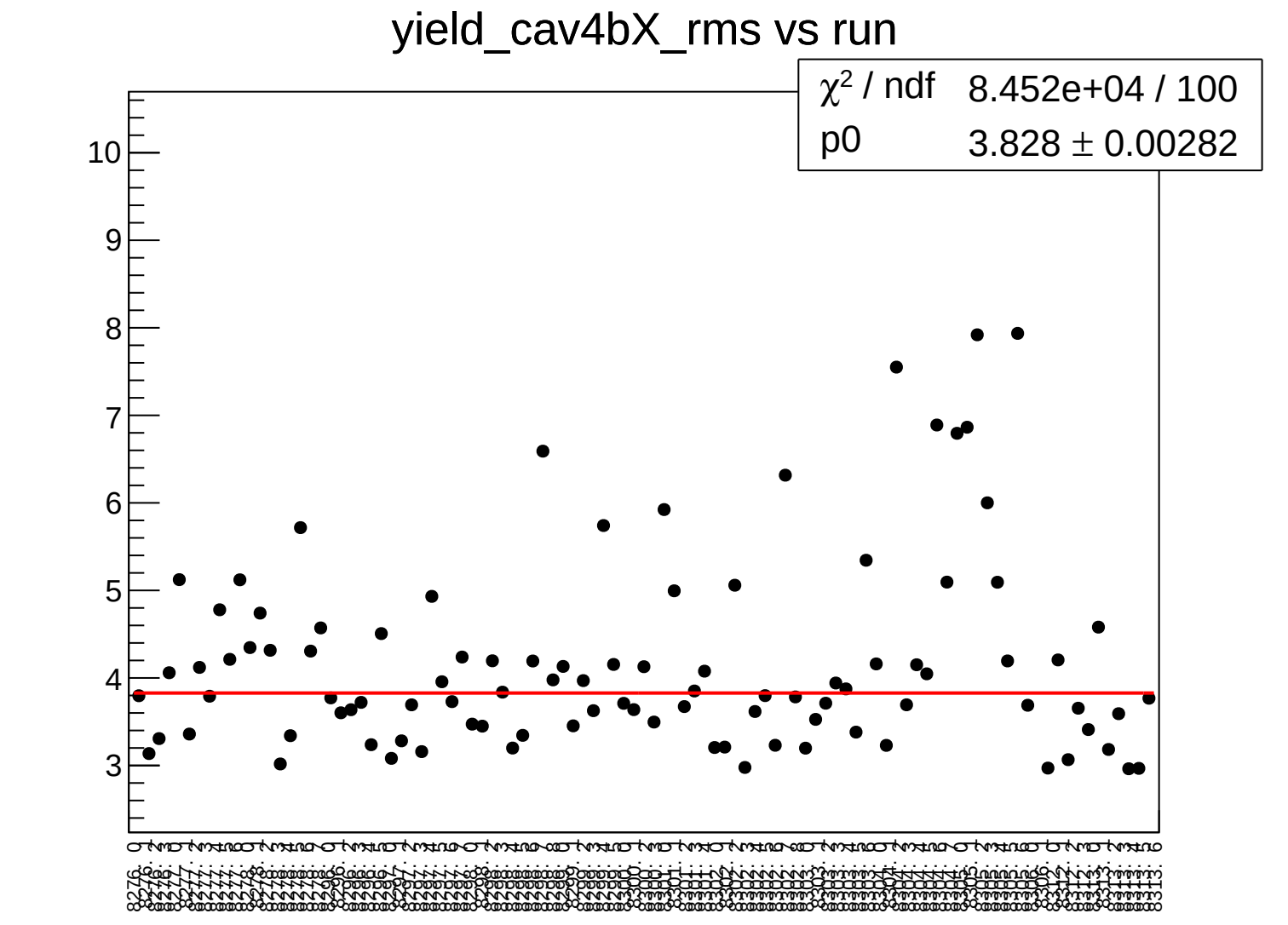

diff_bpmtargetdiffY_mean vs run
χ² / ndf 94.11 / 100
p0 −0.3449 ± 0.5732
pull
Entries 101
Mean 1757
Std Dev 0

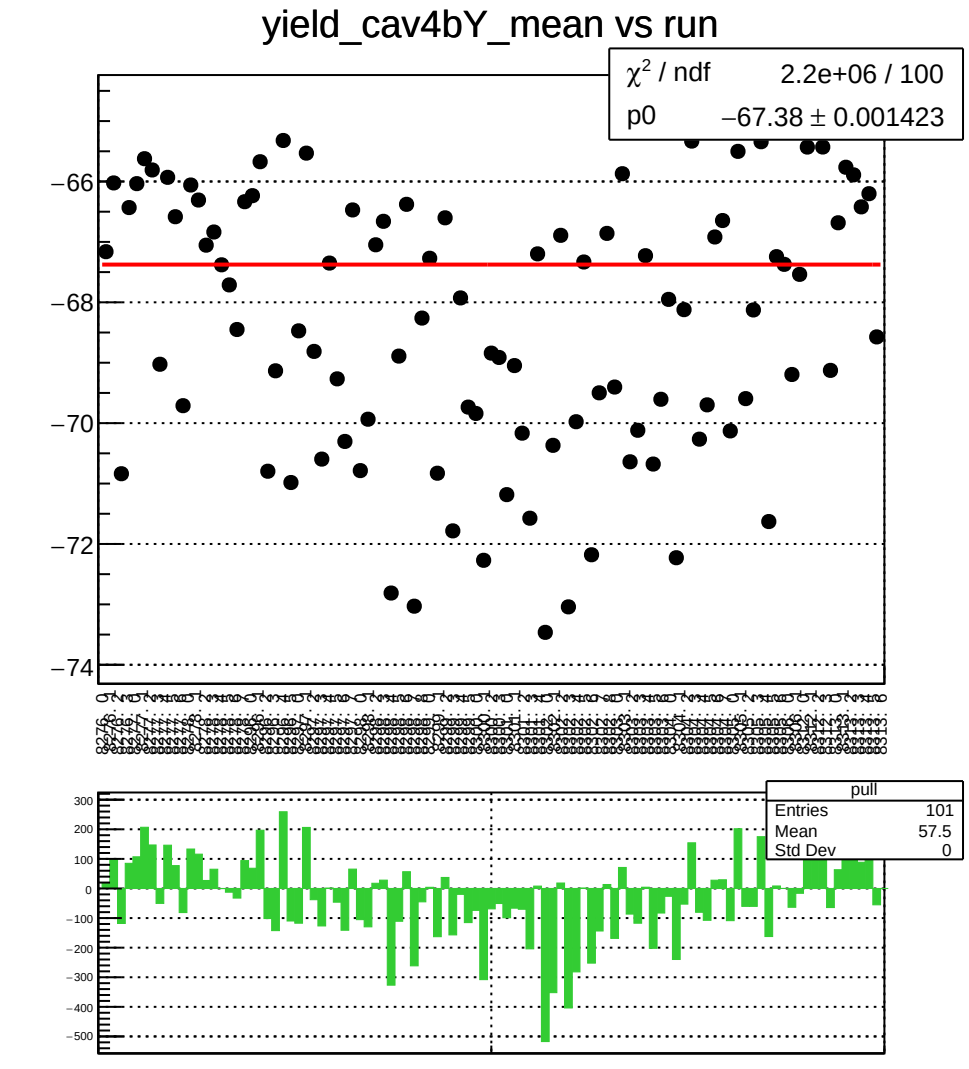

pull1D
Entries 101
Mean 0.001992
Std Dev 0.9653

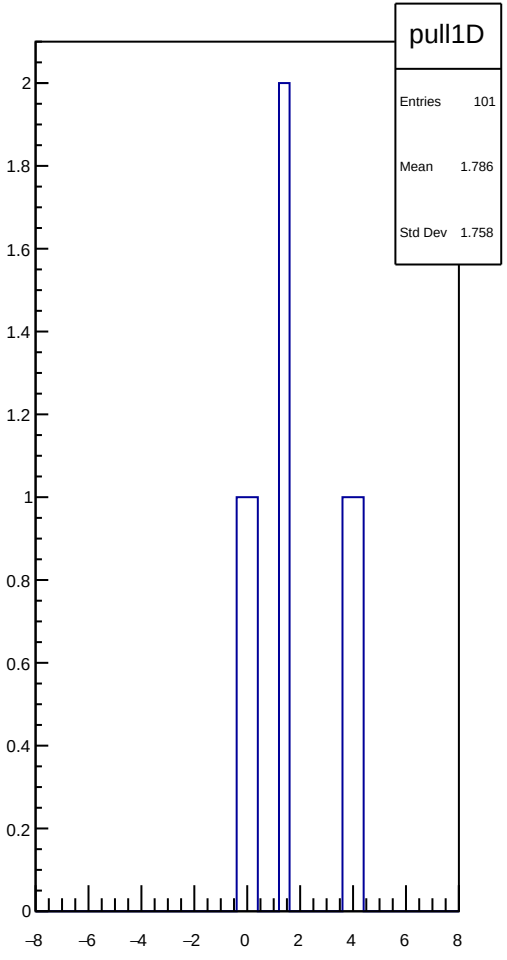

diff_bpmtargetdiffY_rms vs run
χ² / ndf 795.9 / 100
p0 562.6 ± 0.4053
600
590
580
570
560
550
540
530

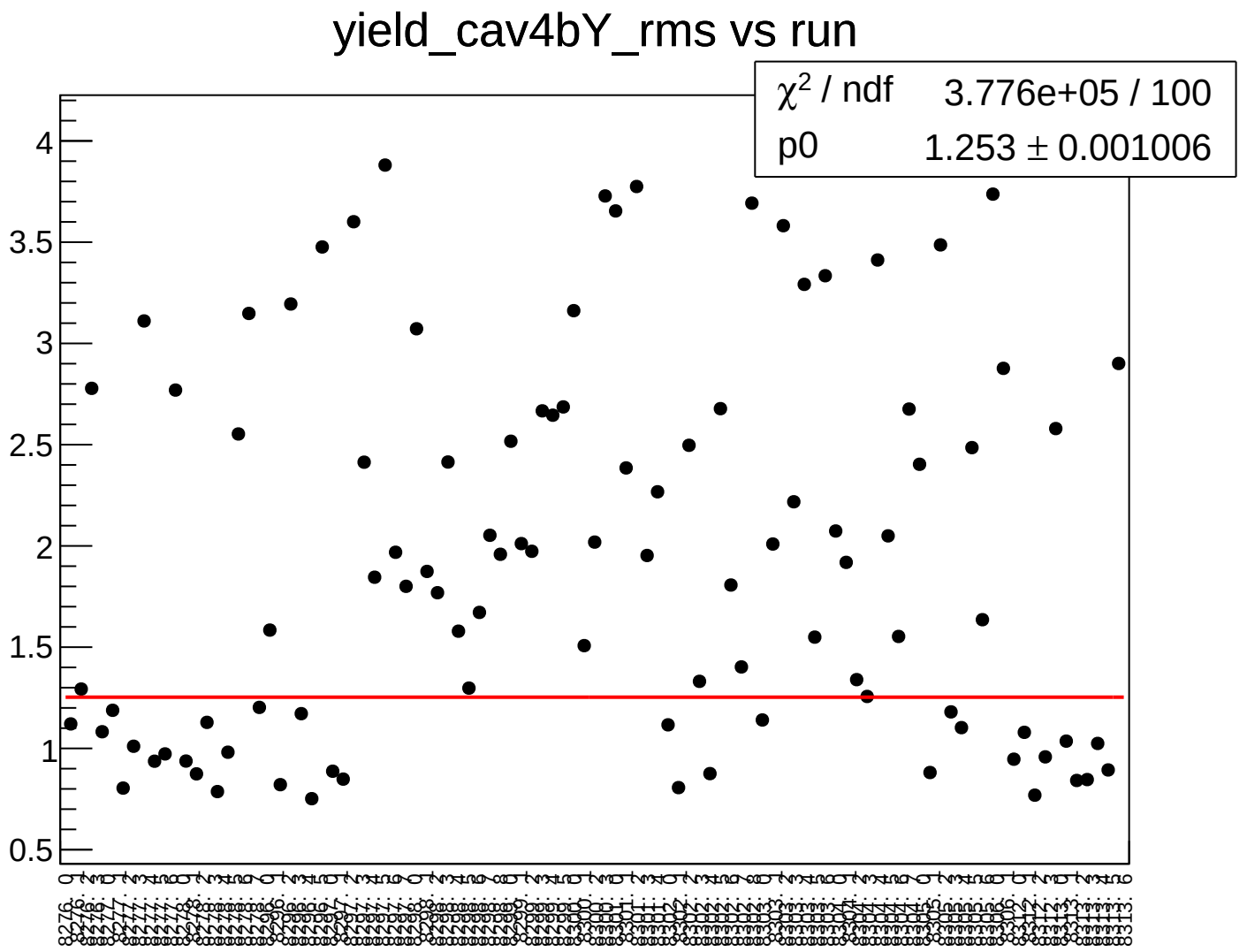

yield_cav4bX_mean vs run
χ² / ndf 3.654e+05 / 100
p0 −30.29 ± 0.003988
−24
−26
−28
−30
−32
−34
−36
−38
pull
Entries 101
Mean 106.1
Std Dev 0
100
50
0
−50
−100

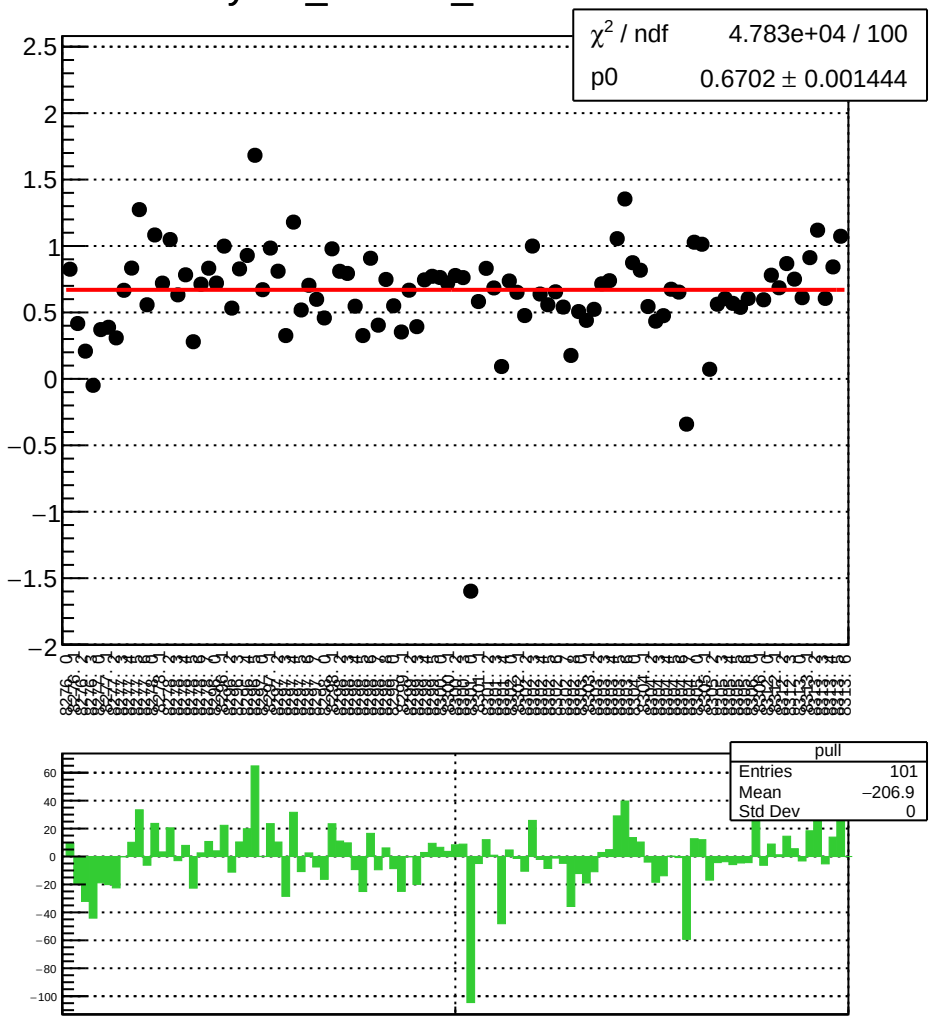

pull1D
Entries 101
Mean −2.476
Std Dev 3.872
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

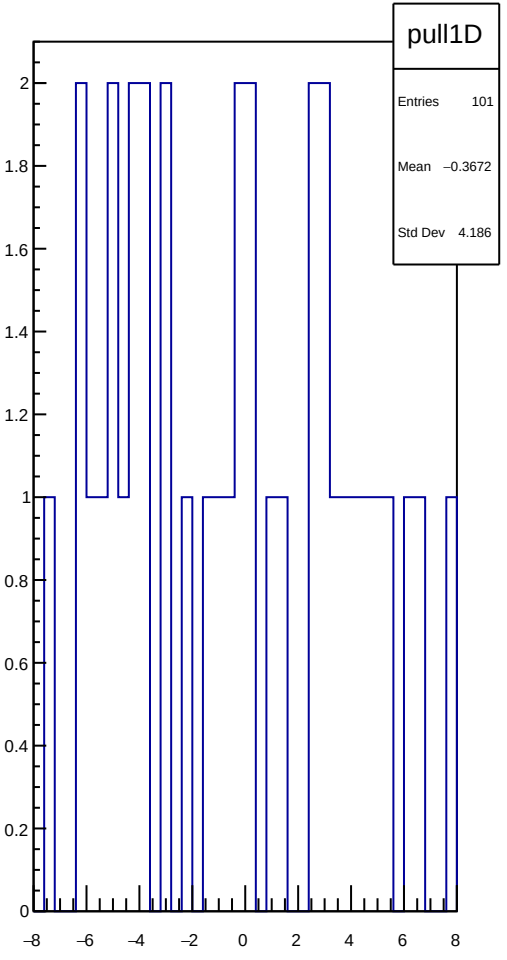

yield_cav4bX_rms vs run
χ² / ndf 8.452e+04 / 100
p0 3.828 ± 0.00282
10
9
8
7
6
5
4
3

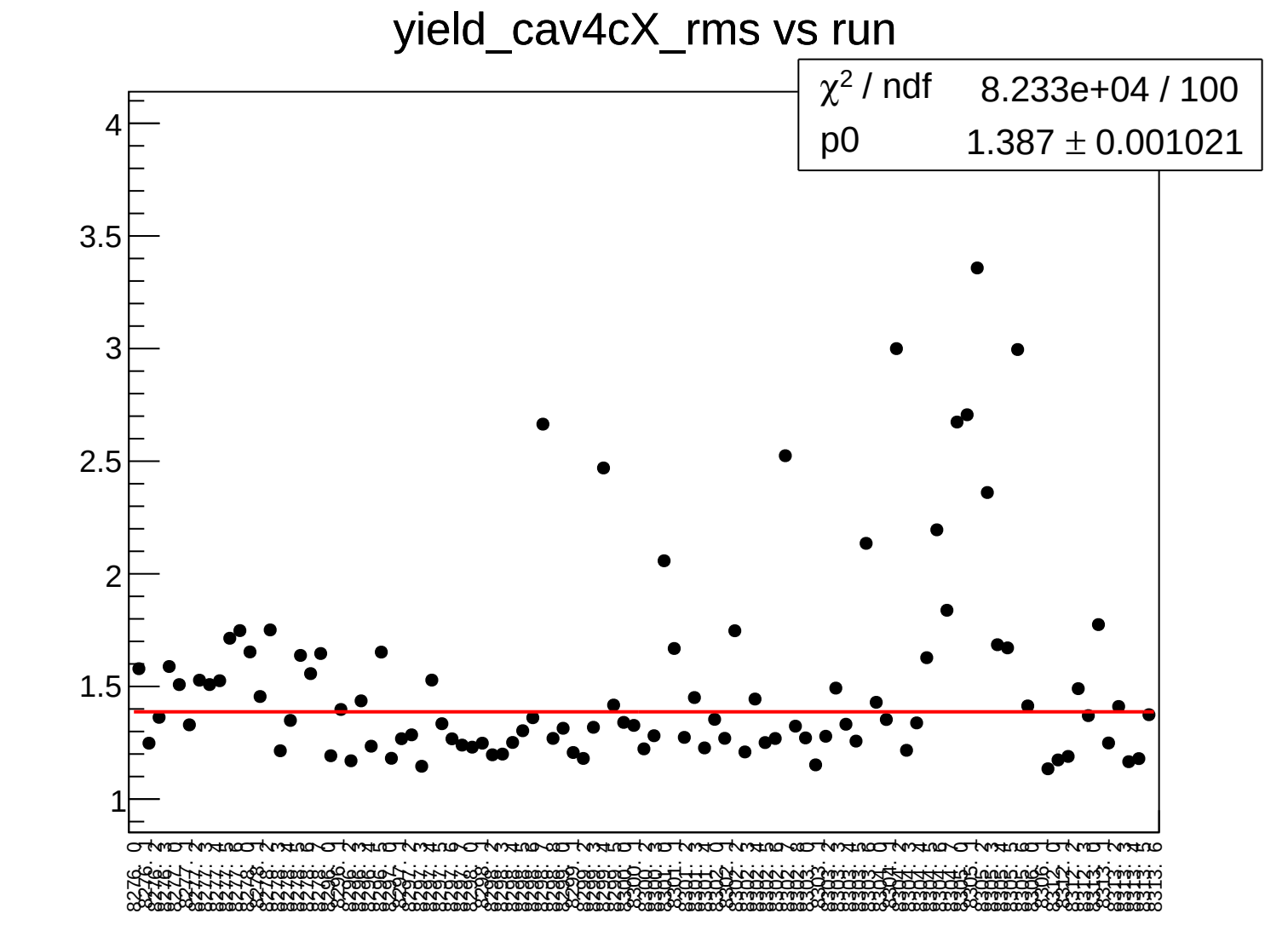

yield_cav4bY_mean vs run
χ² / ndf 2.2e+06 / 100
p0 −67.38 ± 0.001423
−66
−68
−70
−72
−74
pull
Entries 101
Mean 57.5
Std Dev 0
300
200
100
0
−100
−200
−300
−400
−500

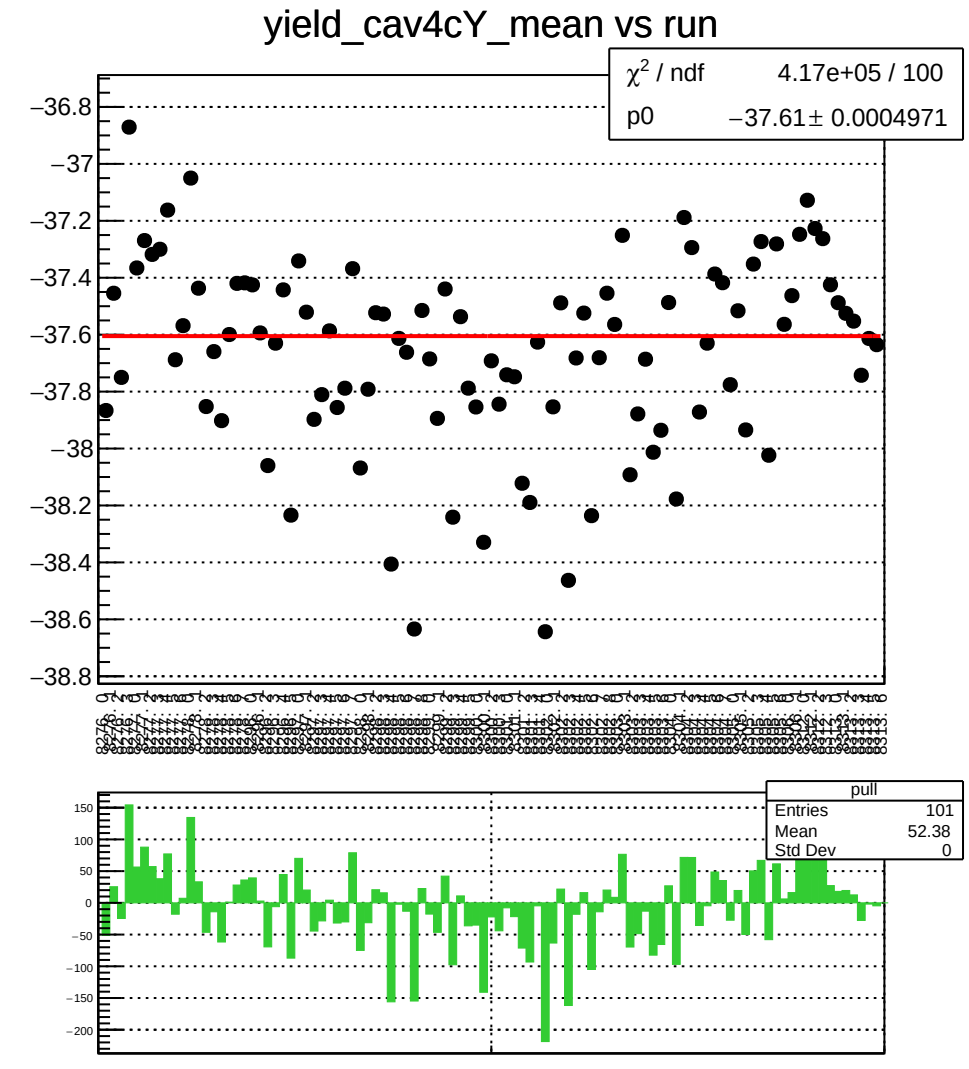

pull1D
Entries 101
Mean 1.786
Std Dev 1.758
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

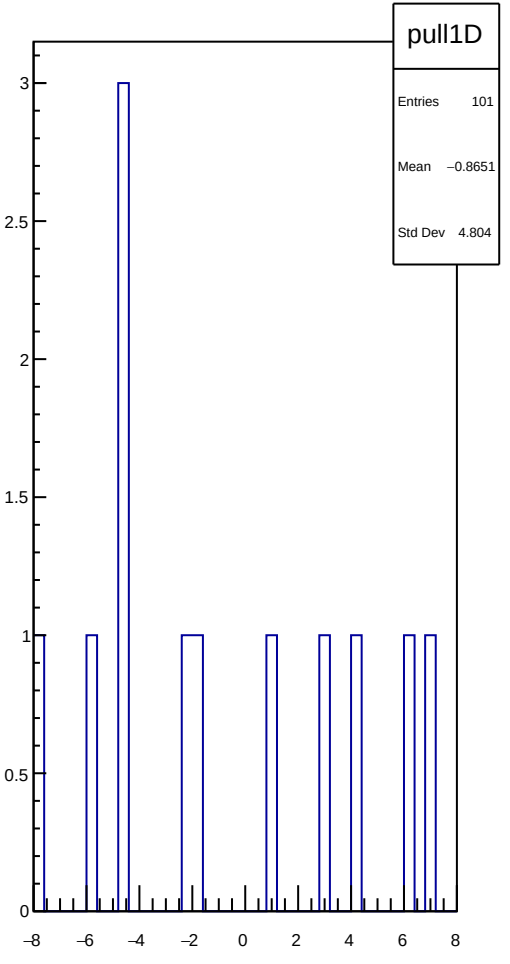

yield_cav4bY_rms vs run
χ^2 / ndf 3.776e+05 / 100
p0 1.253 ± 0.001006
4
3.5
3
2.5
2
1.5
1
0.5

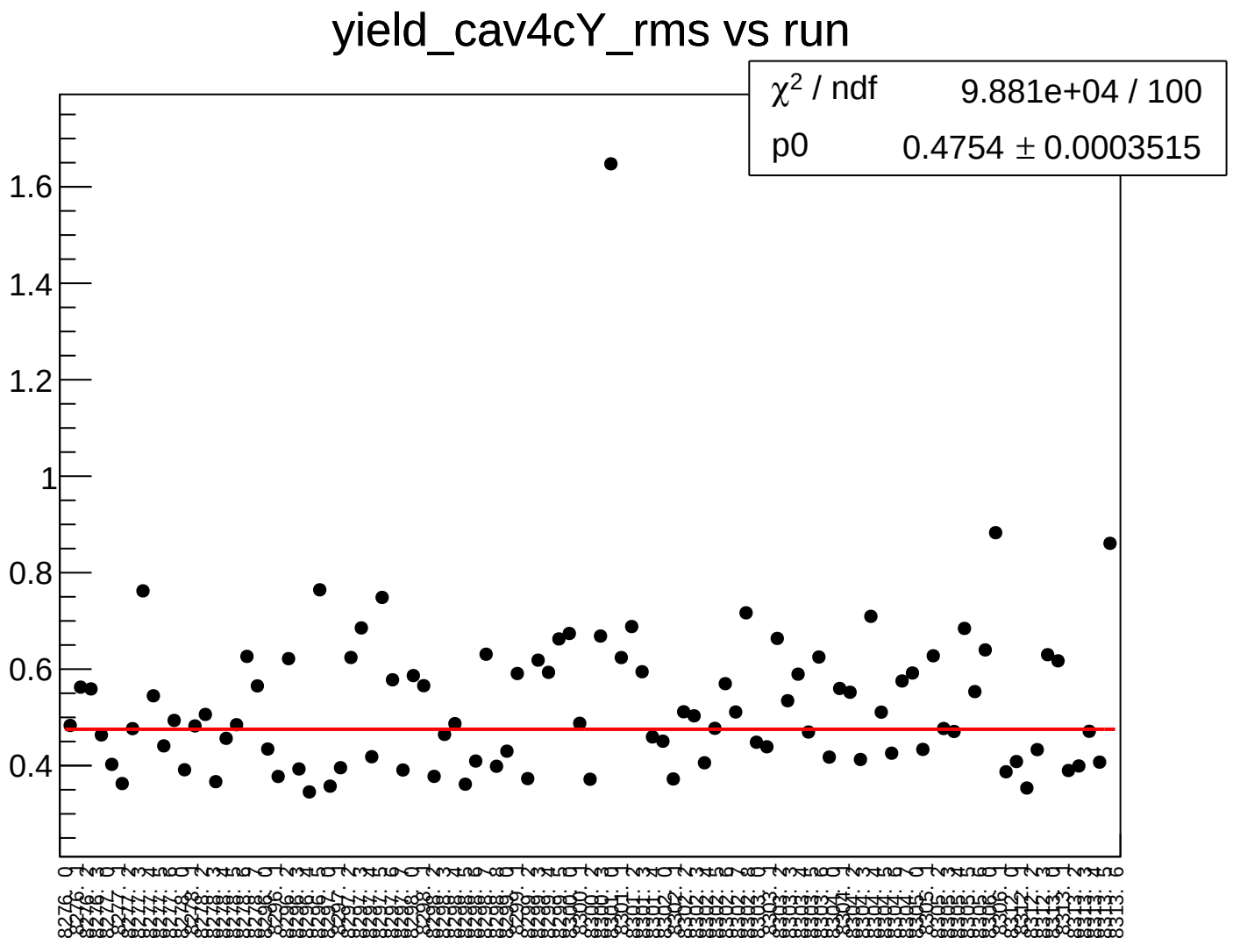

yield_cav4cX_mean vs run
χ² / ndf 4.783e+04 / 100
p0 0.6702 ± 0.001444
pull
Entries 101
Mean −206.9
Std Dev 0

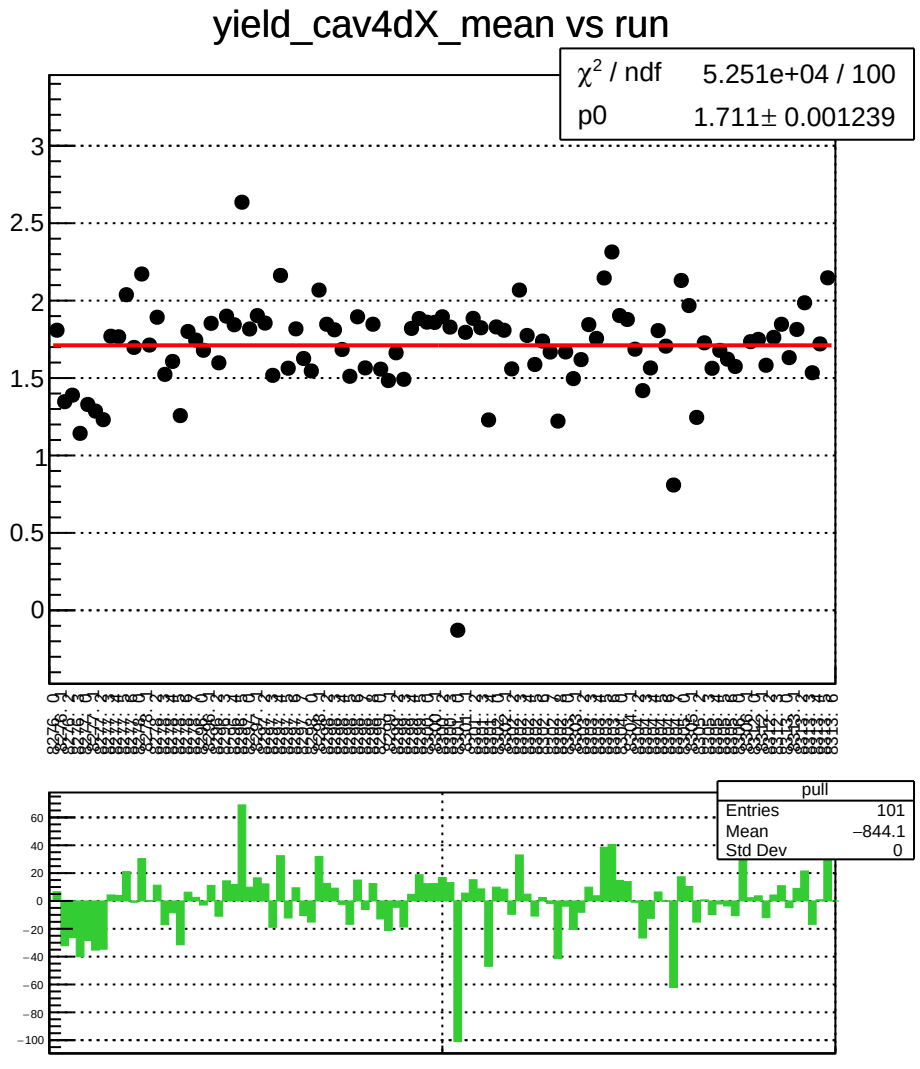

pull1D
Entries 101
Mean −0.3672
Std Dev 4.186

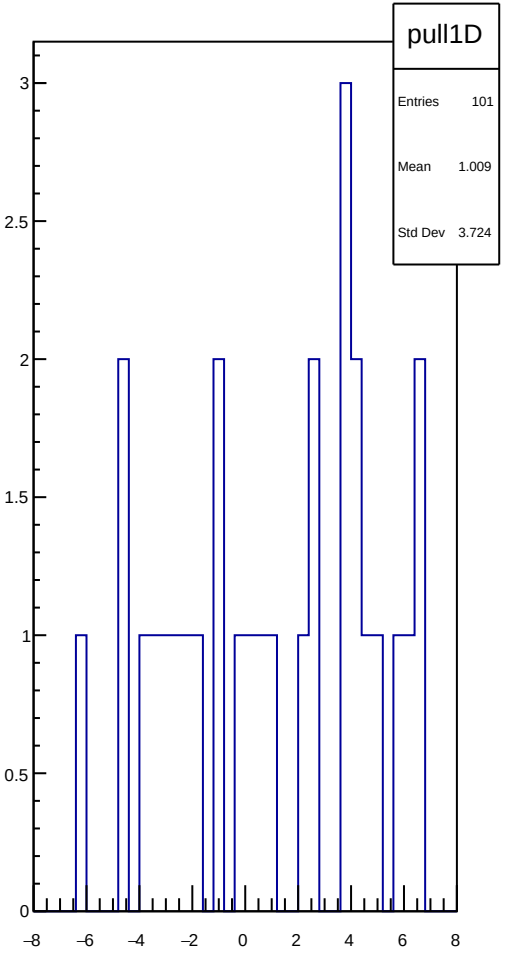

yield_cav4cX_rms vs run
χ^2 / ndf 8.233e+04 / 100
p0 1.387 ± 0.001021
4
3.5
3
2.5
2
1.5
1

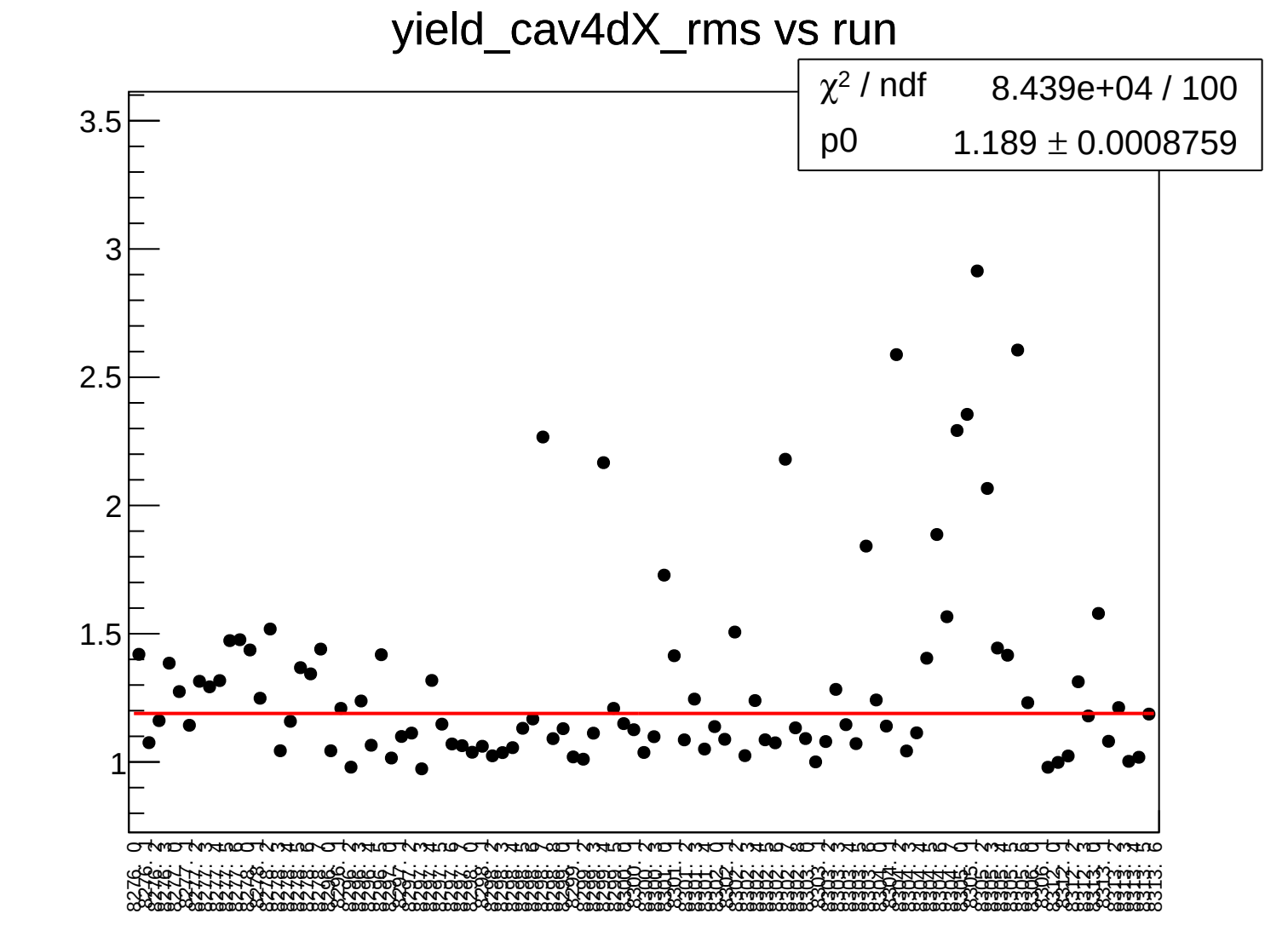

yield_cav4cY_mean vs run
χ² / ndf 4.17e+05 / 100
p0 −37.61± 0.0004971
−36.8
−37
−37.2
−37.4
−37.6
−37.8
−38
−38.2
−38.4
−38.6
−38.8
pull
Entries 101
Mean 52.38
Std Dev 0
150
100
50
0
−50
−100
−150
−200

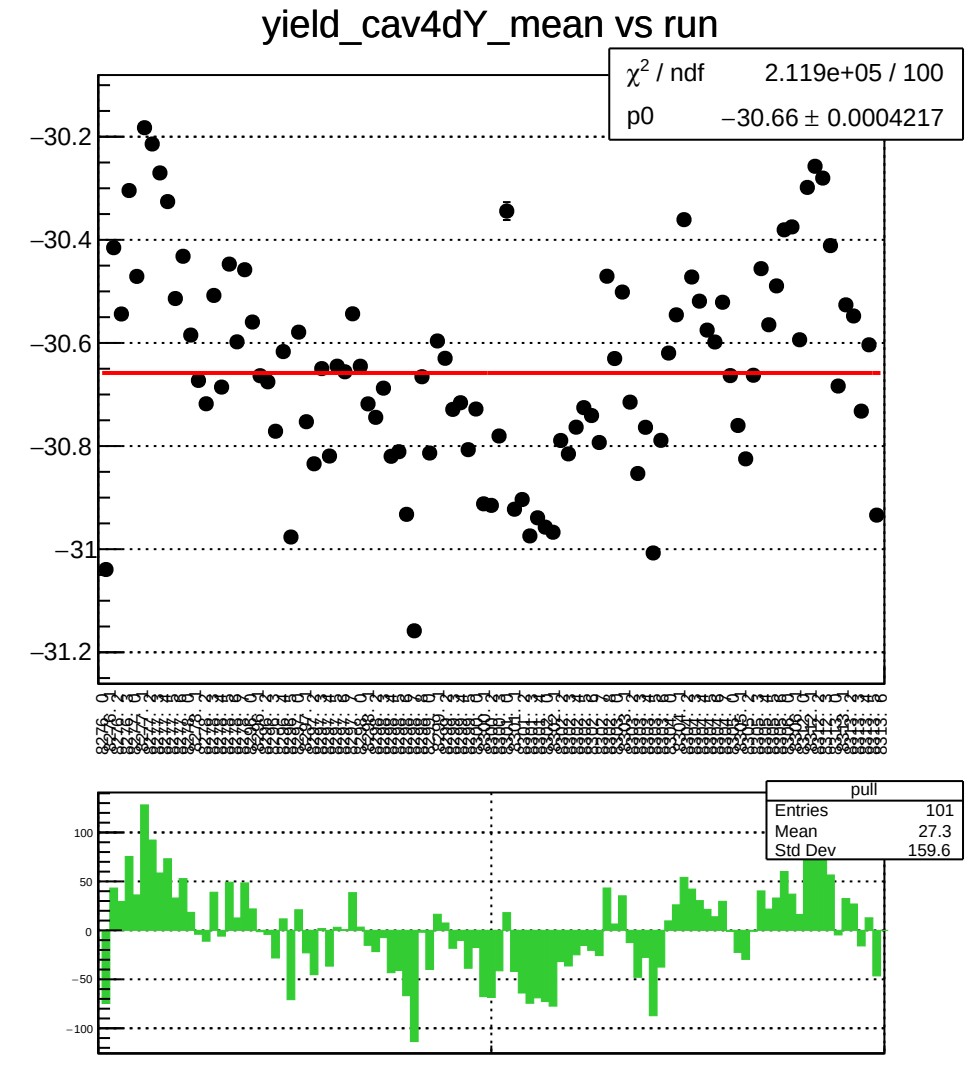

pull1D
Entries 101
Mean −0.8651
Std Dev 4.804
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

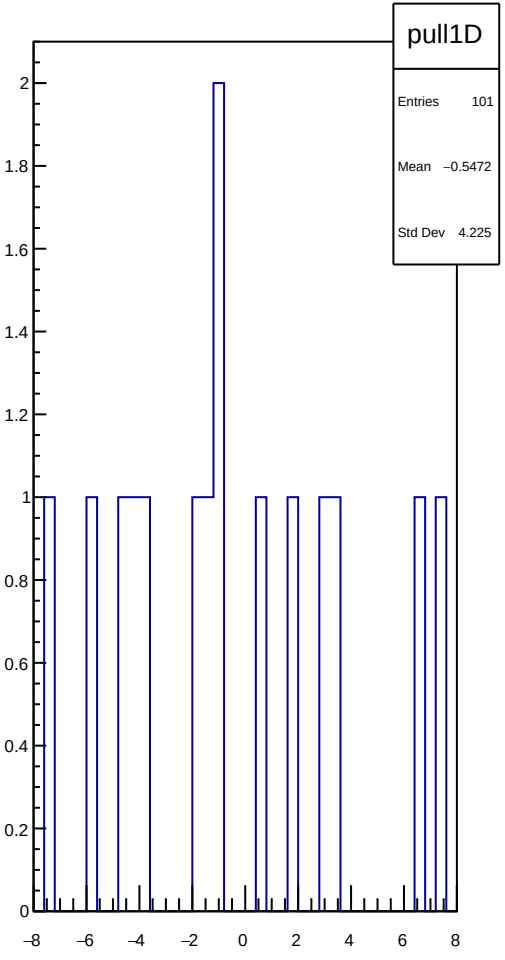

yield_cav4cY_rms vs run
χ² / ndf 9.881e+04 / 100
p0 0.4754 ± 0.0003515
1.6
1.4
1.2
1
0.8
0.6
0.4

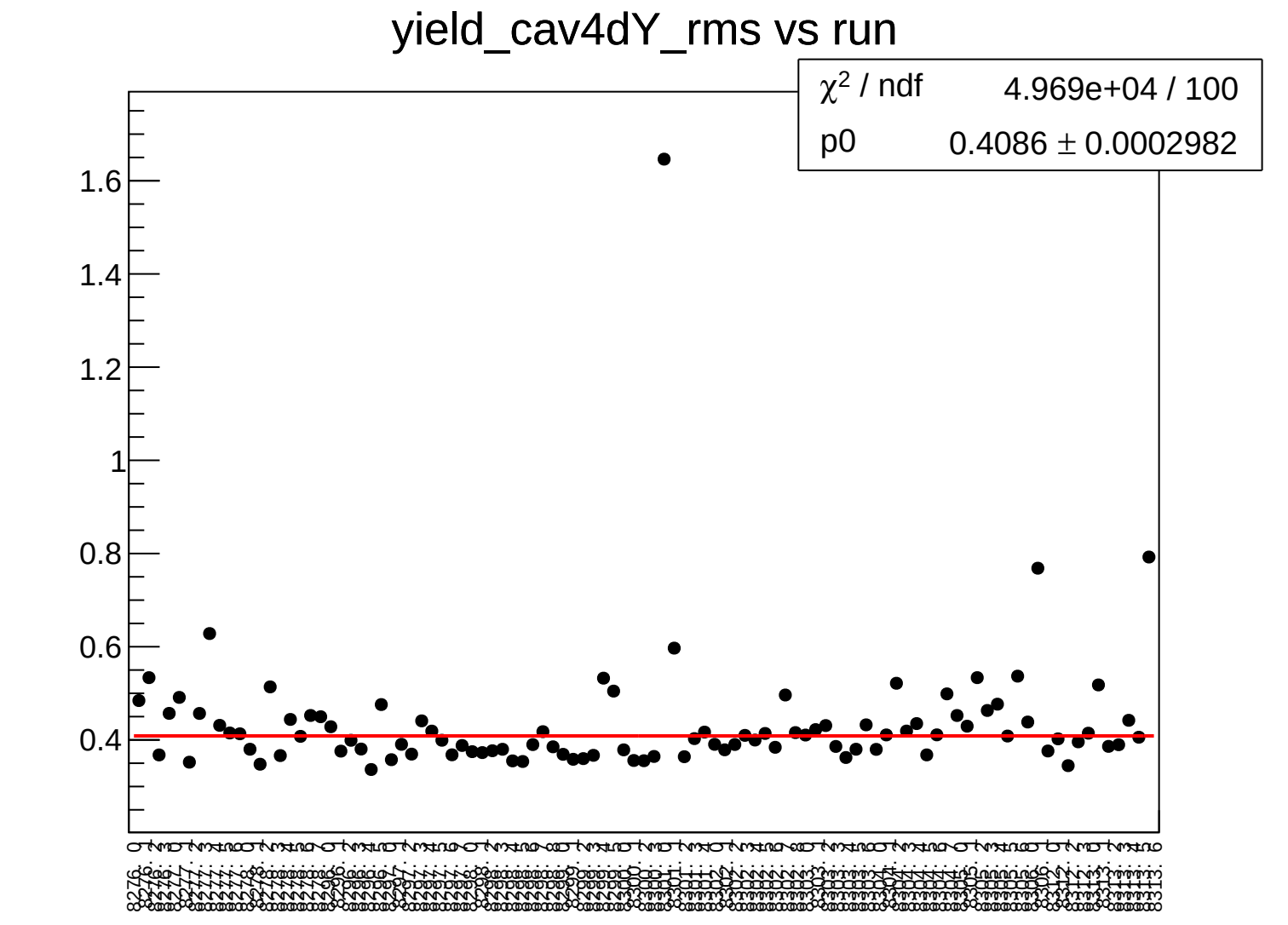

yield_cav4dX_mean vs run
χ² / ndf 5.251e+04 / 100
p0 1.711± 0.001239
pull
Entries 101
Mean −844.1
Std Dev 0

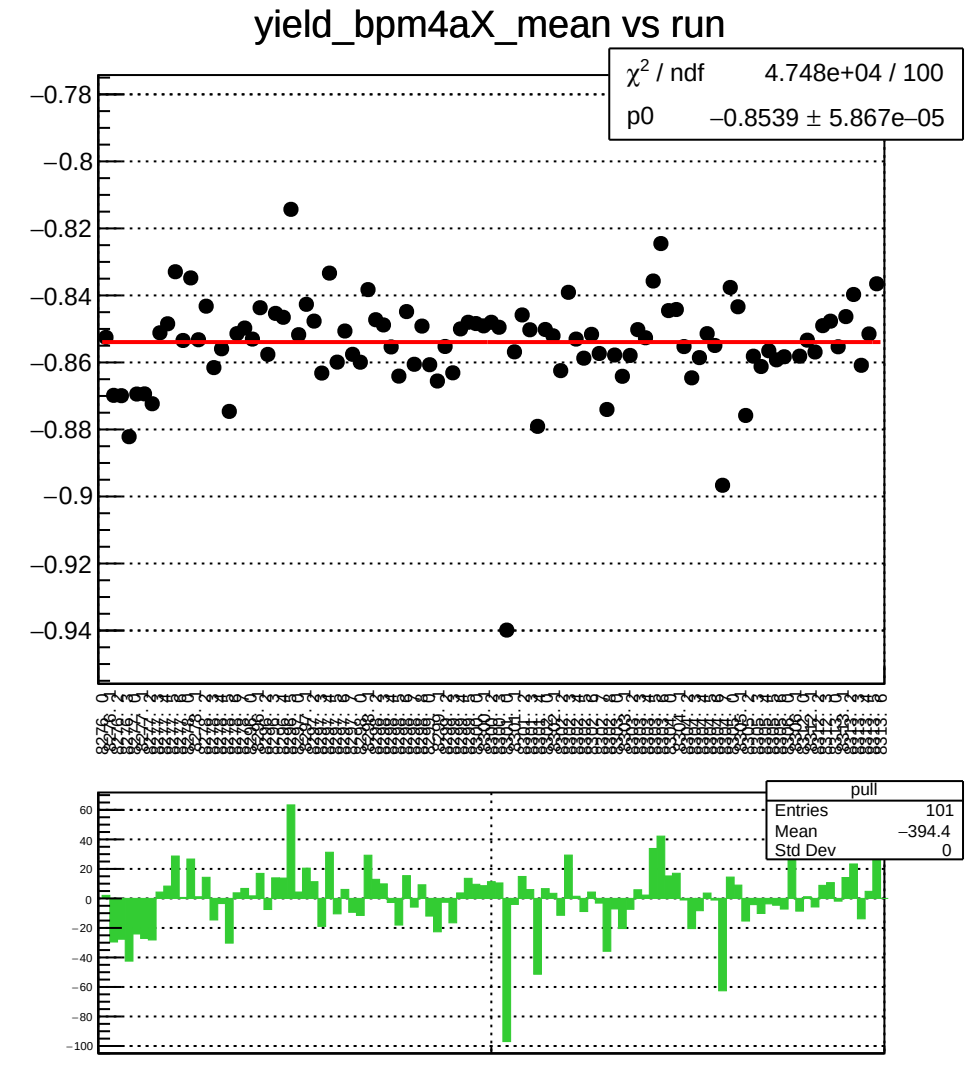

pull1D
Entries 101
Mean 1.009
Std Dev 3.724

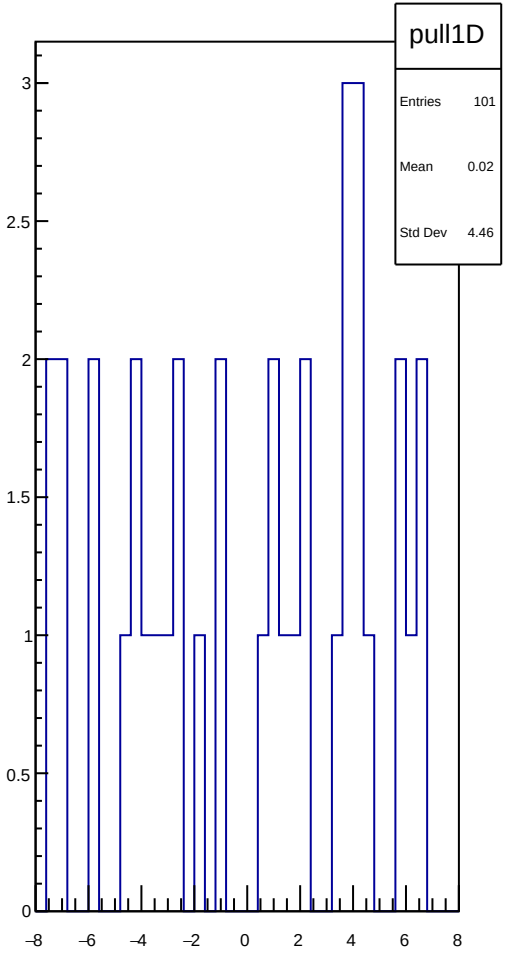

yield_cav4dX_rms vs run
χ² / ndf 8.439e+04 / 100
p0 1.189 ± 0.0008759
3.5
3
2.5
2
1.5
1

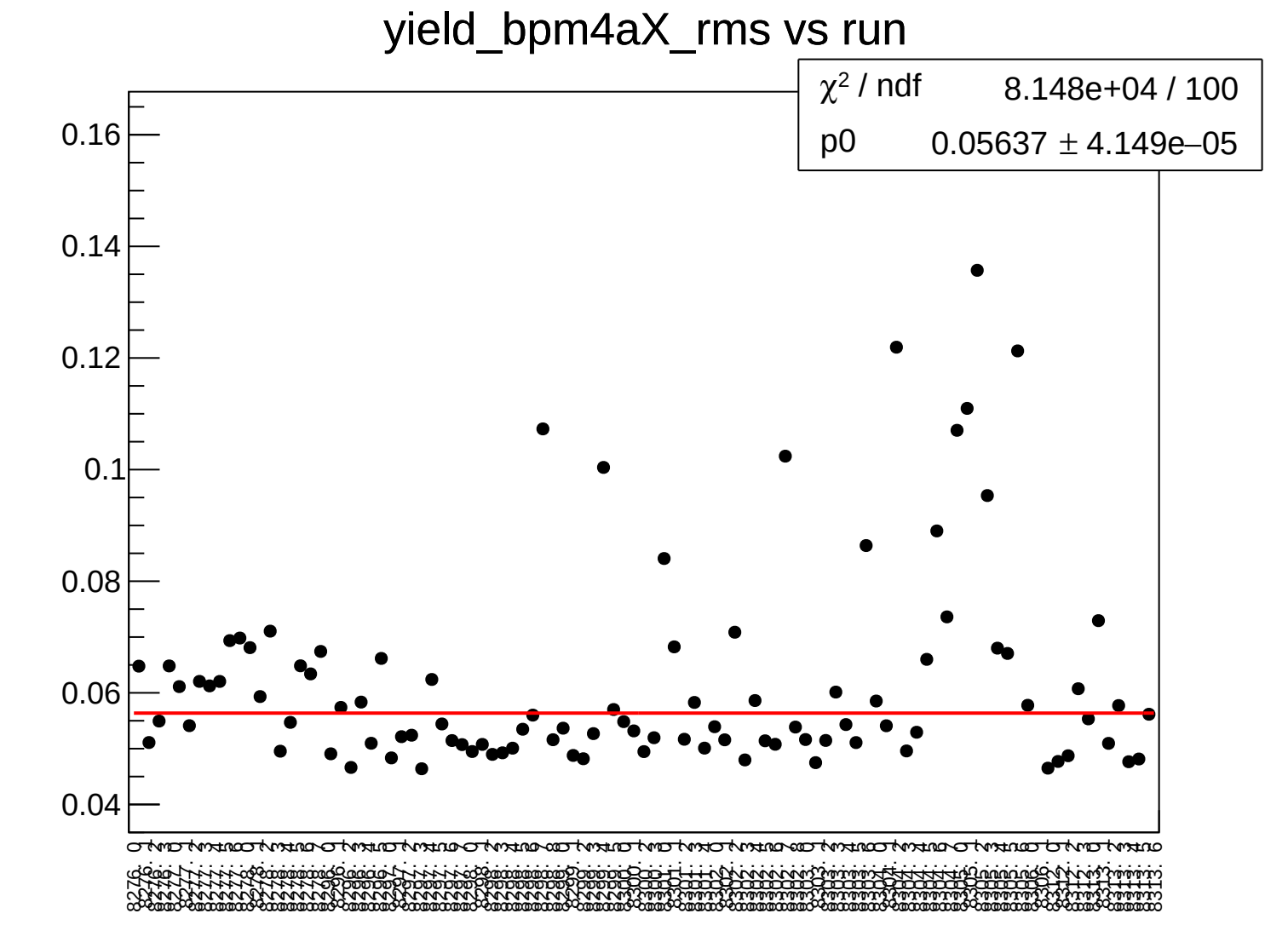

yield_cav4dY_mean vs run
χ² / ndf 2.119e+05 / 100
p0 −30.66 ± 0.0004217
−30.2
−30.4
−30.6
−30.8
−31
−31.2
pull
Entries 101
Mean 27.3
Std Dev 159.6
100
50
0
−50
−100

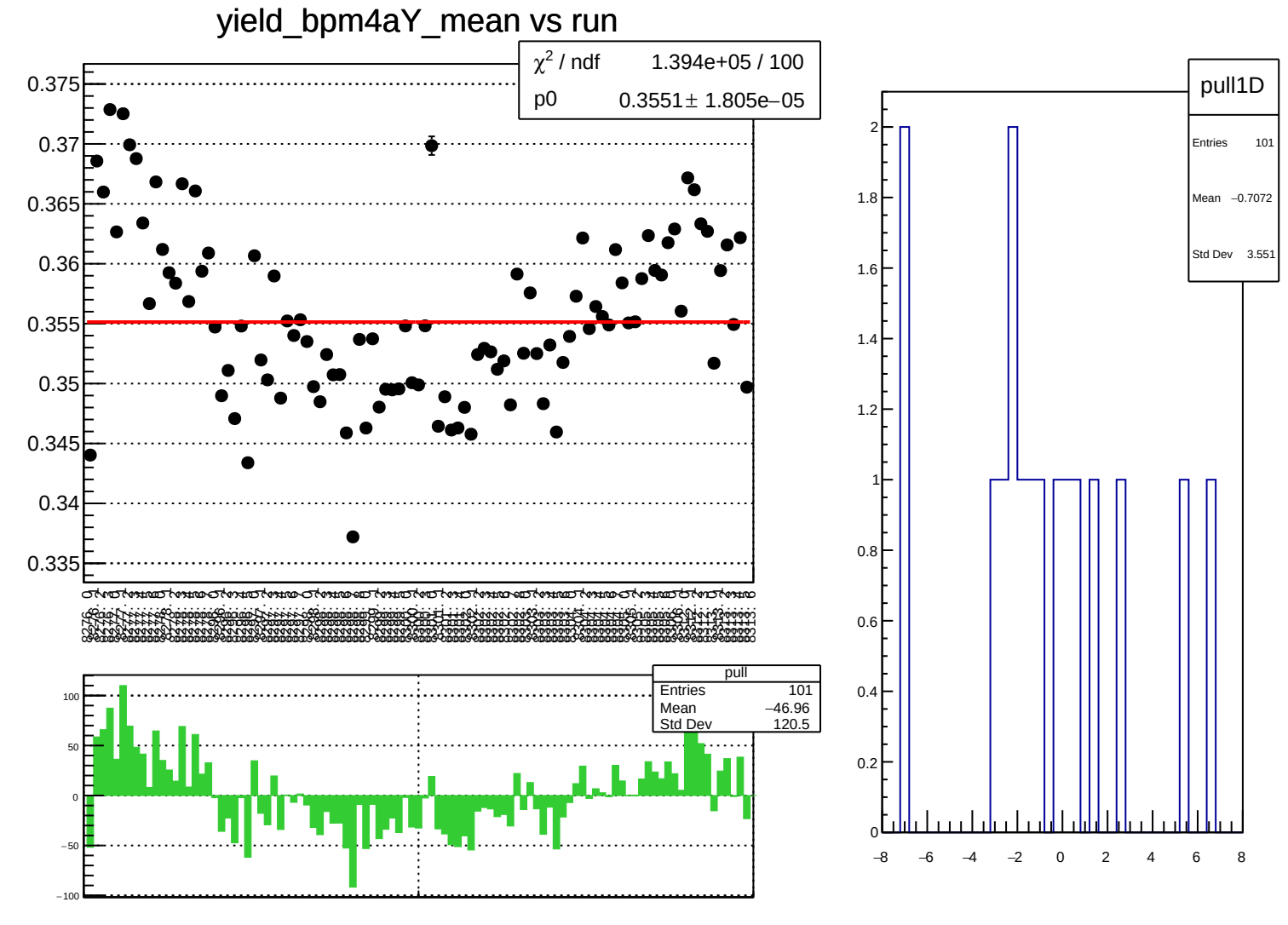

pull1D
Entries 101
Mean −0.5472
Std Dev 4.225
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

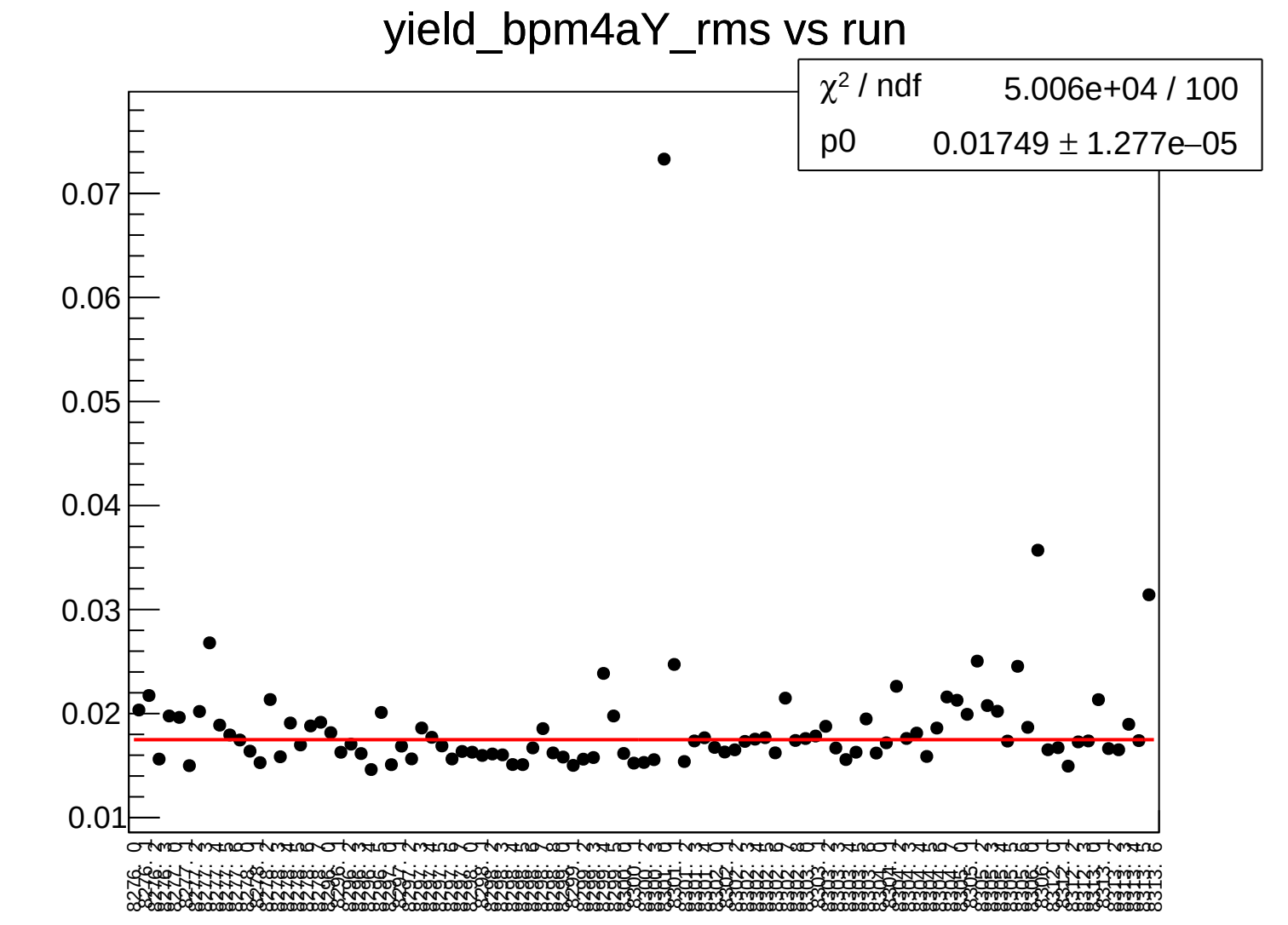

yield_cav4dY_rms vs run
χ² / ndf 4.969e+04 / 100
p0 0.4086 ± 0.0002982
1.6
1.4
1.2
1
0.8
0.6
0.4

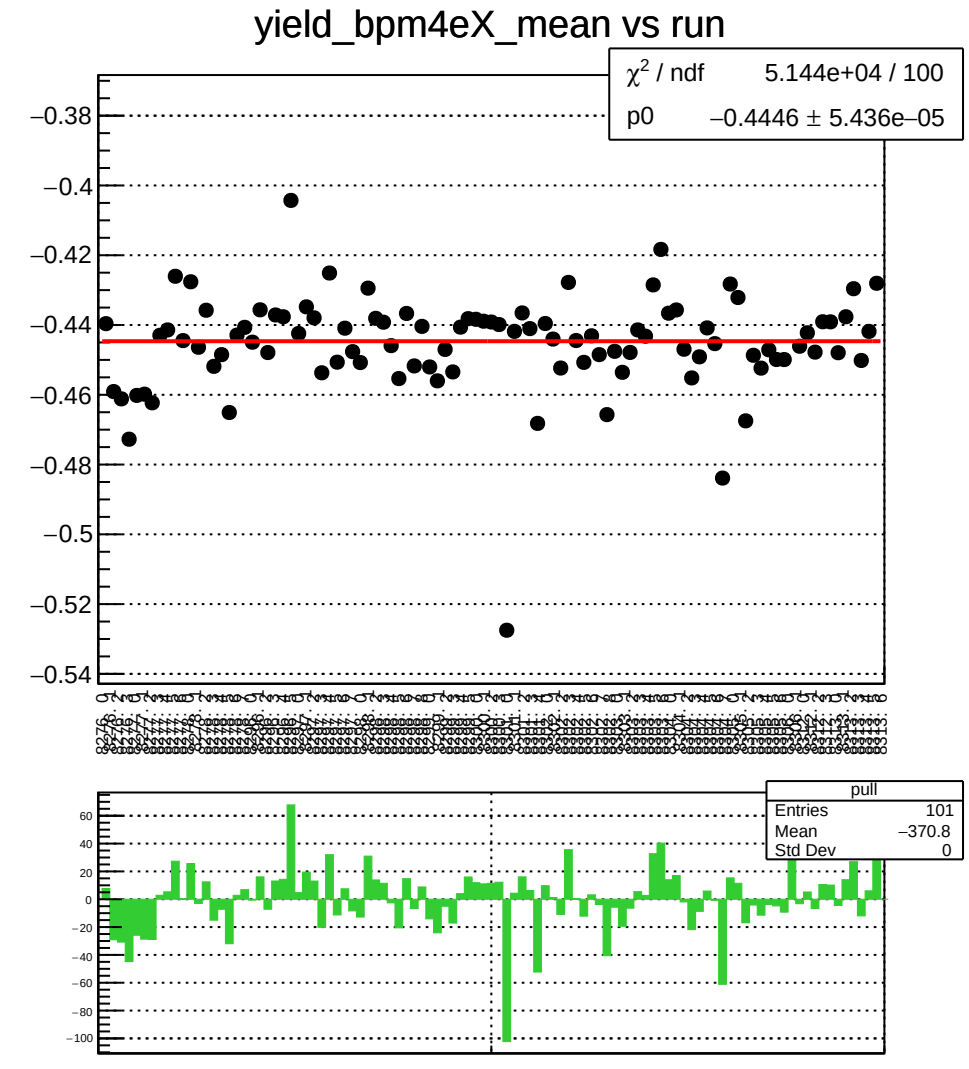

yield_bpm4aX_mean vs run
χ² / ndf 4.748e+04 / 100
p0 −0.8539 ± 5.867e−05
−0.78
−0.8
−0.82
−0.84
−0.86
−0.88
−0.9
−0.92
−0.94
pull
Entries 101
Mean −394.4
Std Dev 0
60
40
20
0
−20
−40
−60
−80
−100

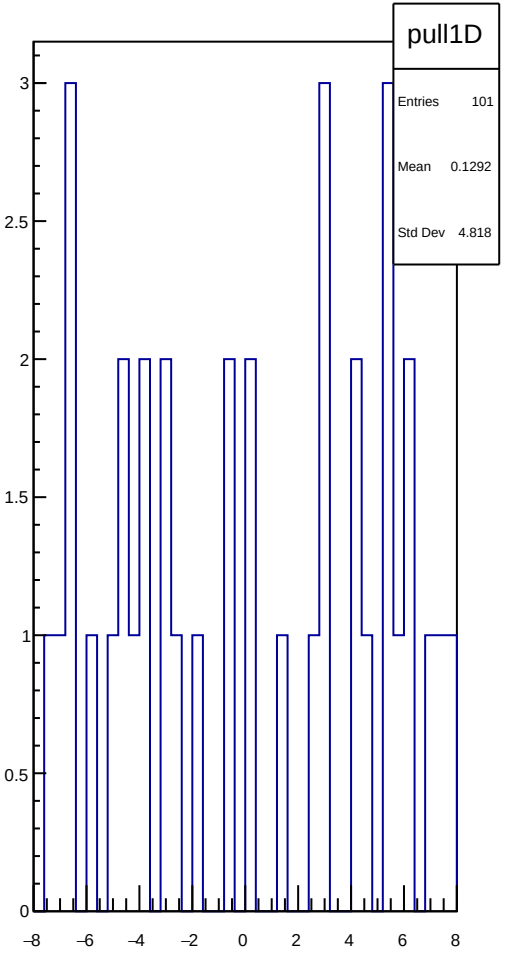

pull1D
Entries 101
Mean 0.02
Std Dev 4.46
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

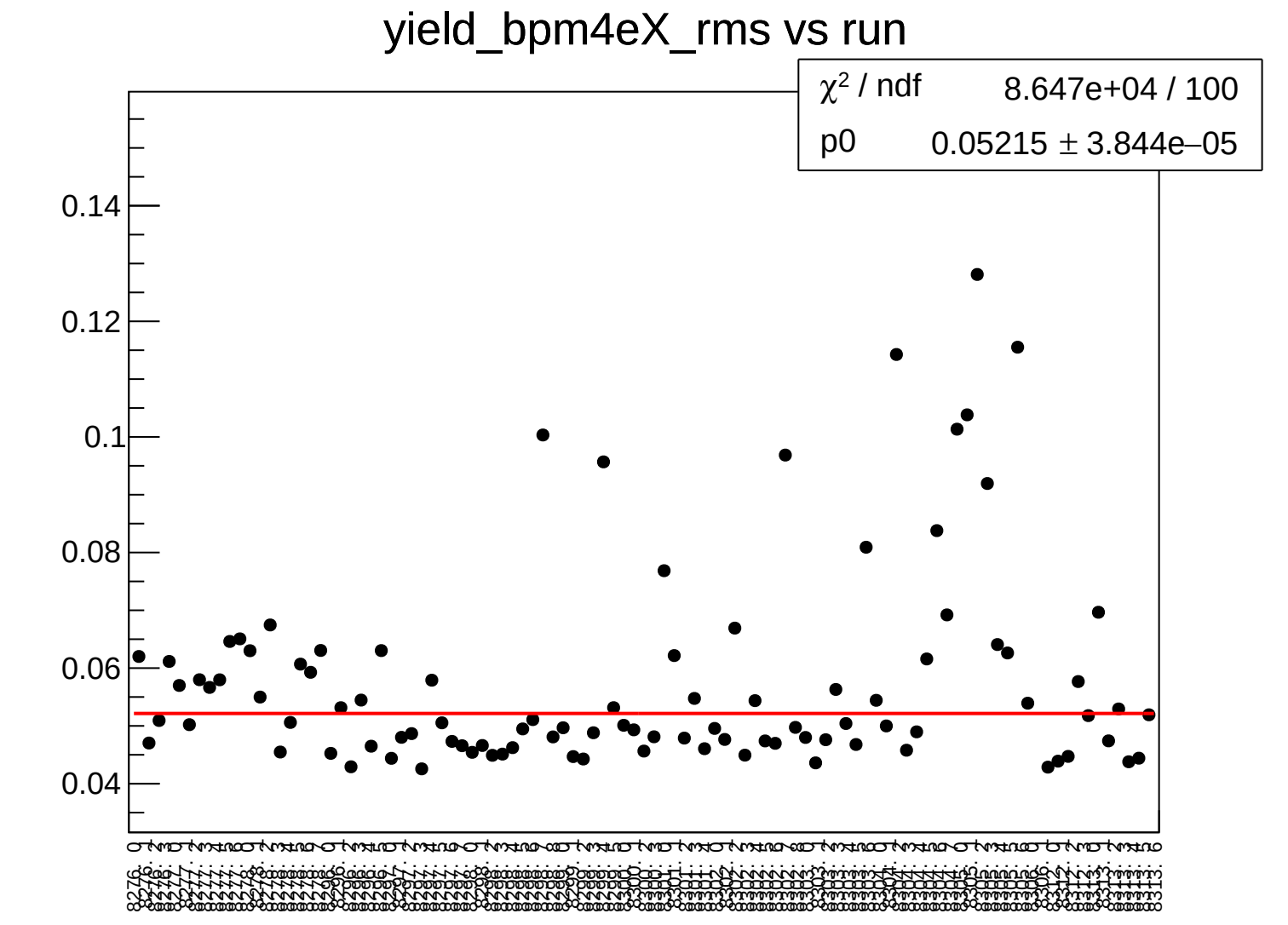

yield_bpm4aX_rms vs run
χ² / ndf 8.148e+04 / 100
p0 0.05637 ± 4.149e–05
0.16
0.14
0.12
0.1
0.08
0.06
0.04

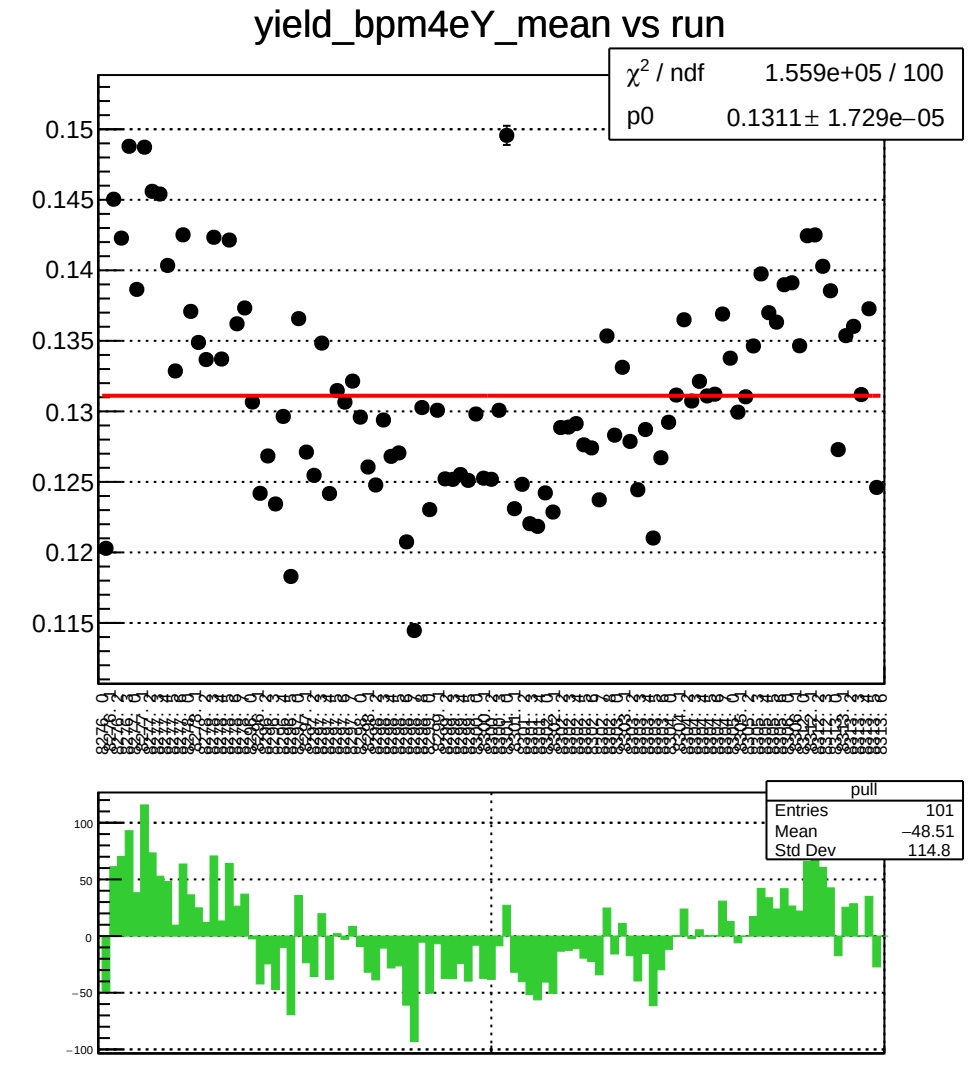

yield_bpm4aY_mean vs run
χ² / ndf 1.394e+05 / 100
p0 0.3551 ± 1.805e−05
0.375
0.37
0.365
0.36
0.355
0.35
0.345
0.34
0.335
pull
Entries 101
Mean −46.96
Std Dev 120.5
100
50
0
−50
−100
pull1D
Entries 101
Mean −0.7072
Std Dev 3.551
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

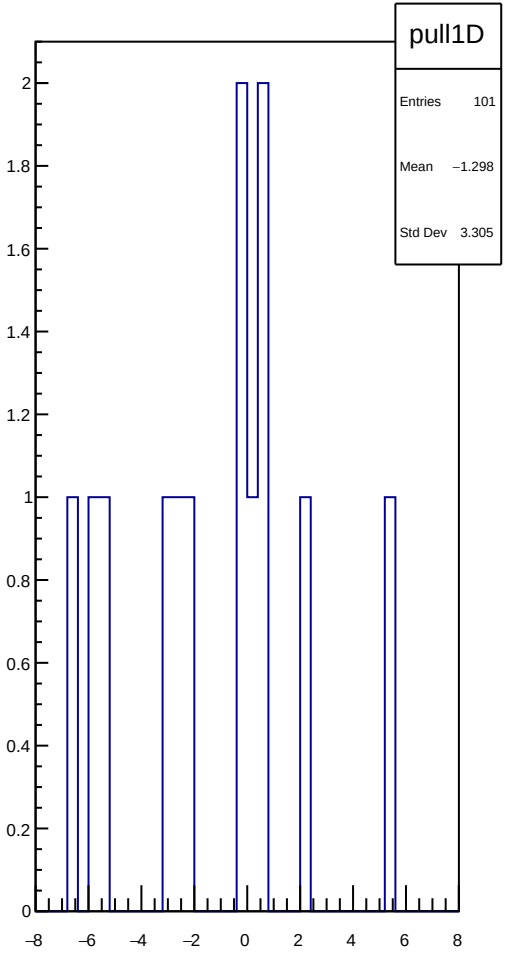

yield_bpm4aY_rms vs run
χ² / ndf 5.006e+04 / 100
p0 0.01749 ± 1.277e–05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

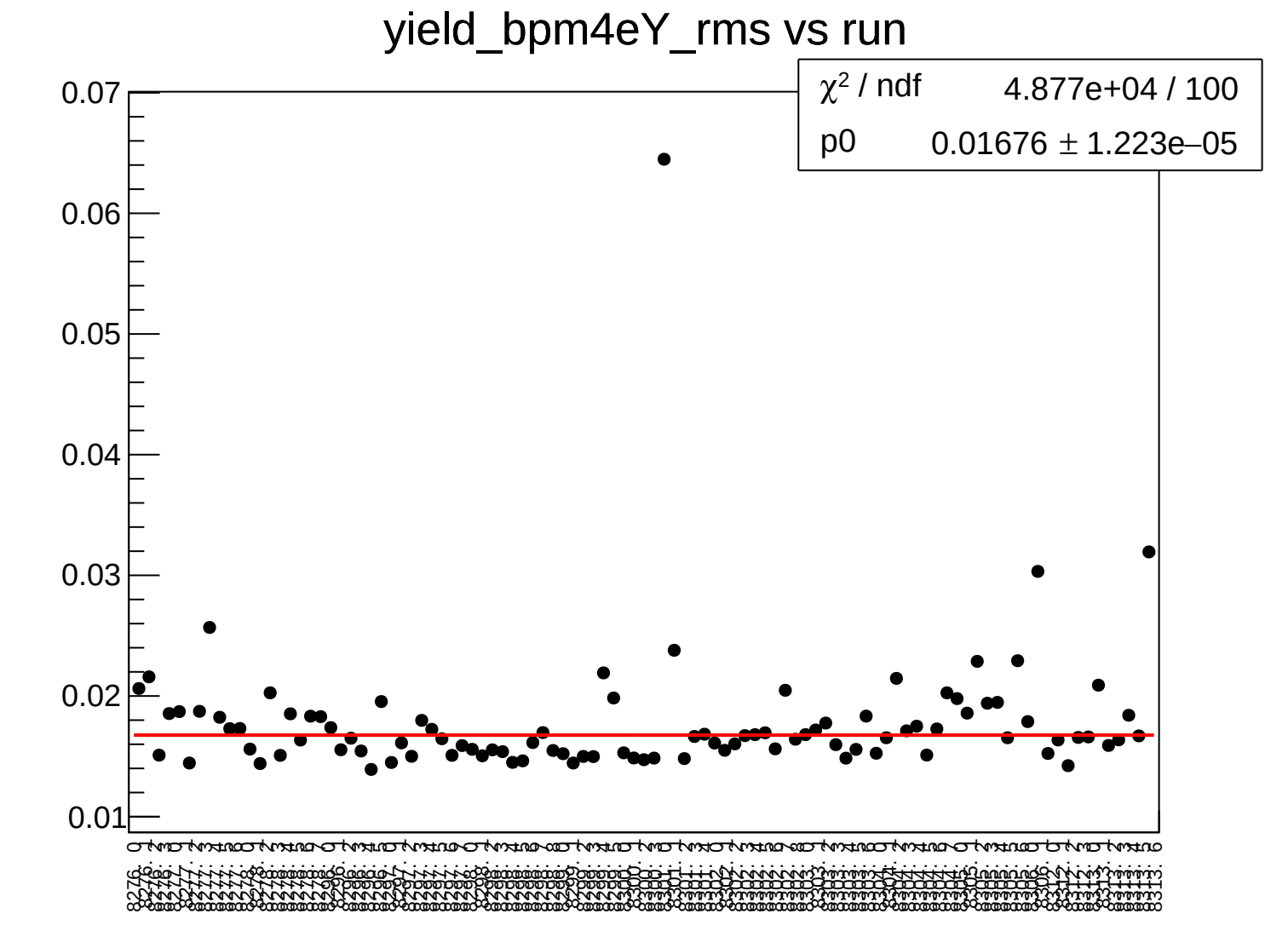

yield_bpm4eX_mean vs run
χ² / ndf 5.144e+04 / 100
p0 −0.4446 ± 5.436e−05
−0.38
−0.4
−0.42
−0.44
−0.46
−0.48
−0.5
−0.52
−0.54
pull
Entries 101
Mean −370.8
Std Dev 0
60
40
20
0
−20
−40
−60
−80
−100

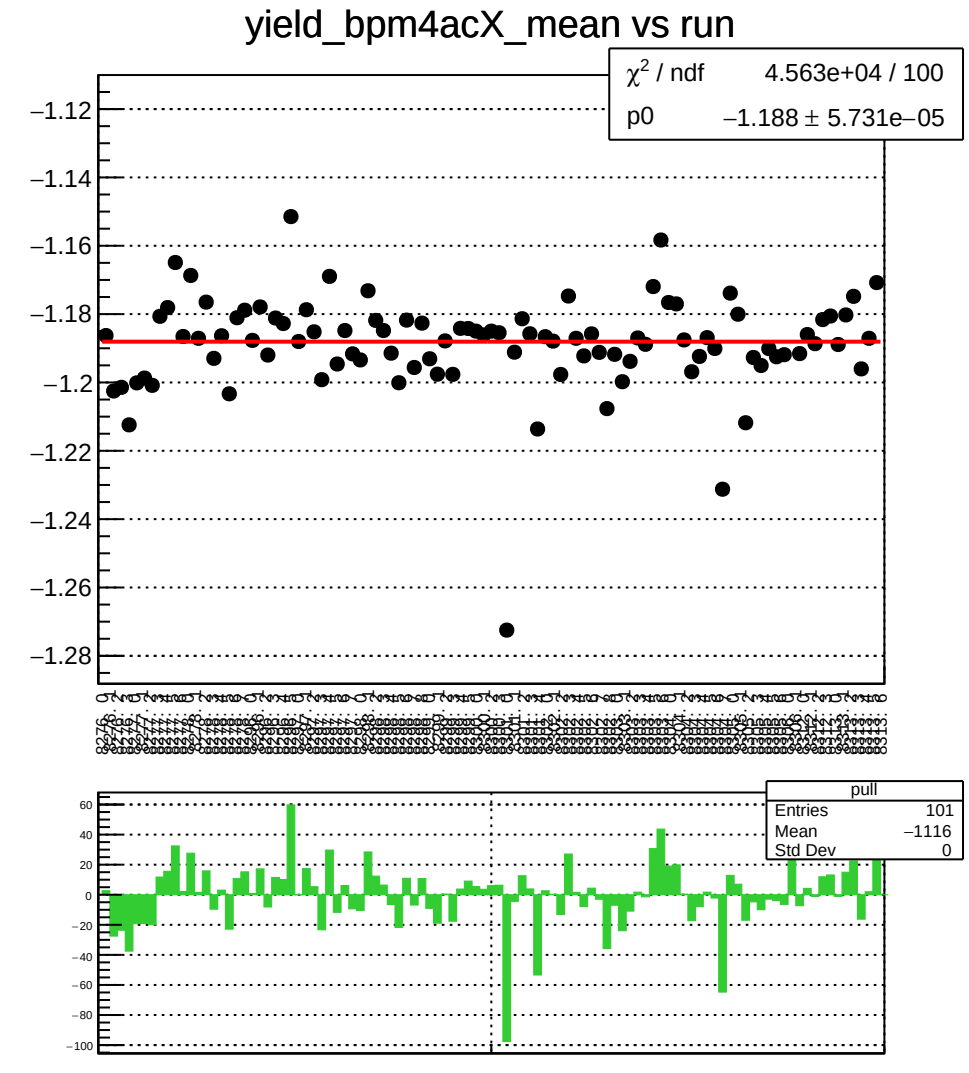

pull1D
Entries 101
Mean 0.1292
Std Dev 4.818
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

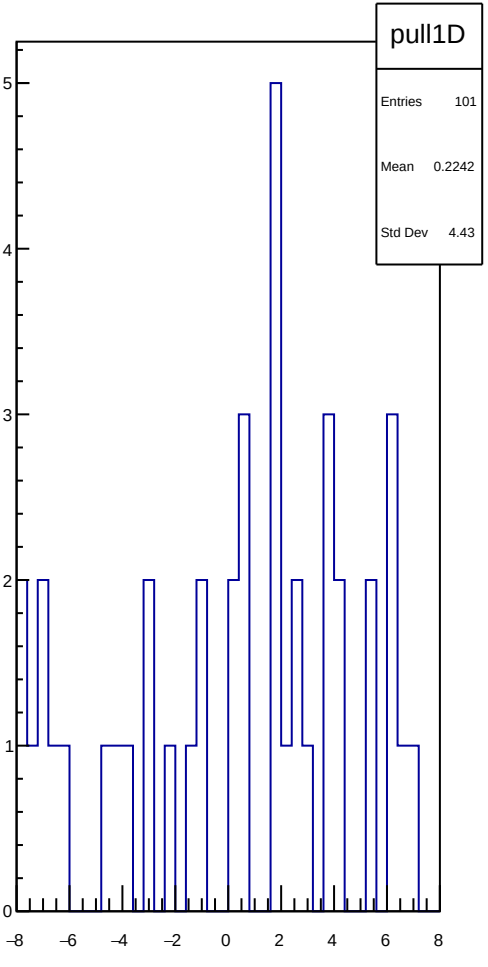

yield_bpm4eX_rms vs run
χ² / ndf 8.647e+04 / 100
p0 0.05215 ± 3.844e−05
0.14
0.12
0.1
0.08
0.06
0.04

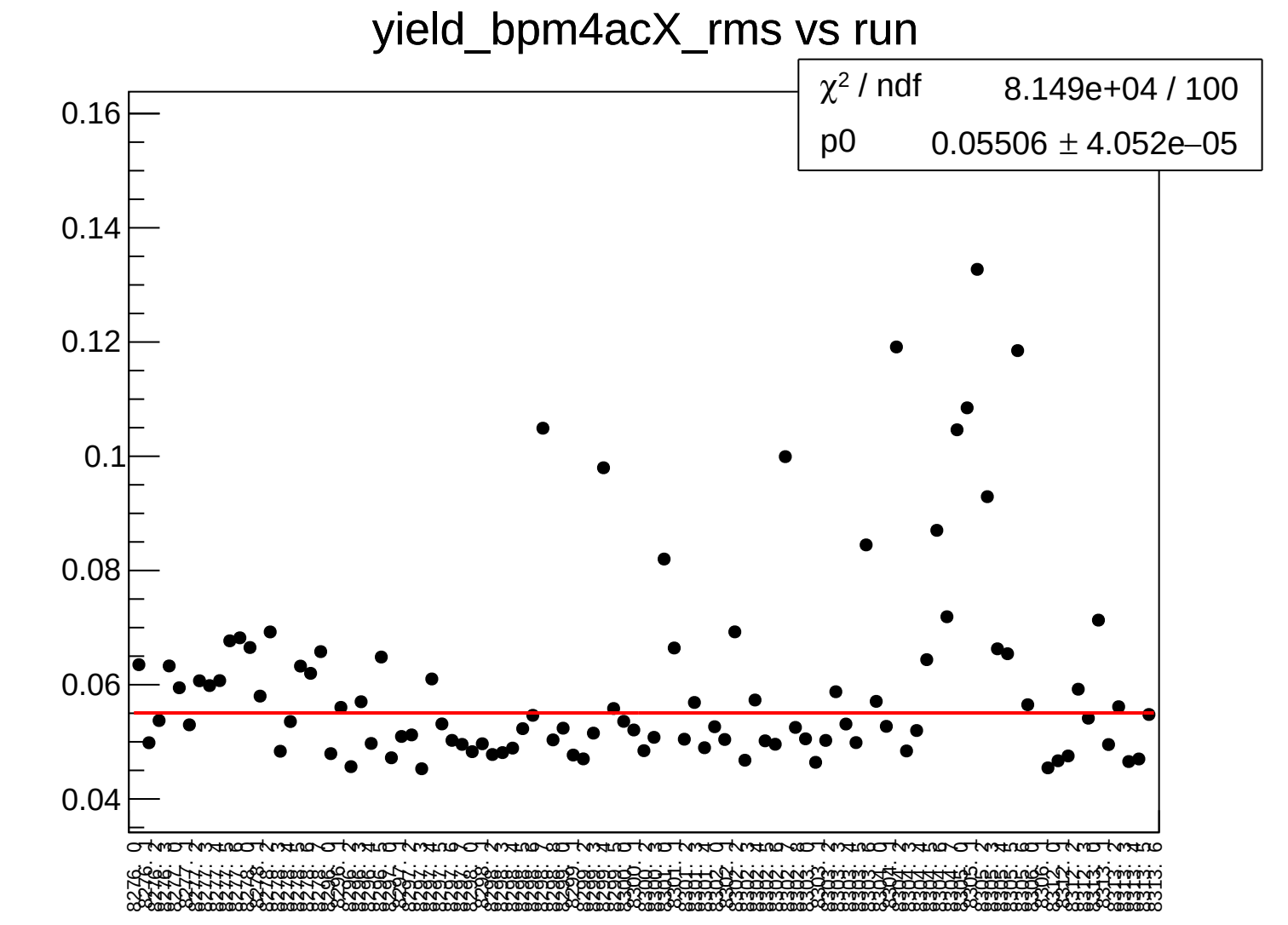

yield_bpm4eY_mean vs run
χ² / ndf 1.559e+05 / 100
p0 0.1311 ± 1.729e−05
0.15
0.145
0.14
0.135
0.13
0.125
0.12
0.115
pull
Entries 101
Mean −48.51
Std Dev 114.8
100
50
0
−50
−100

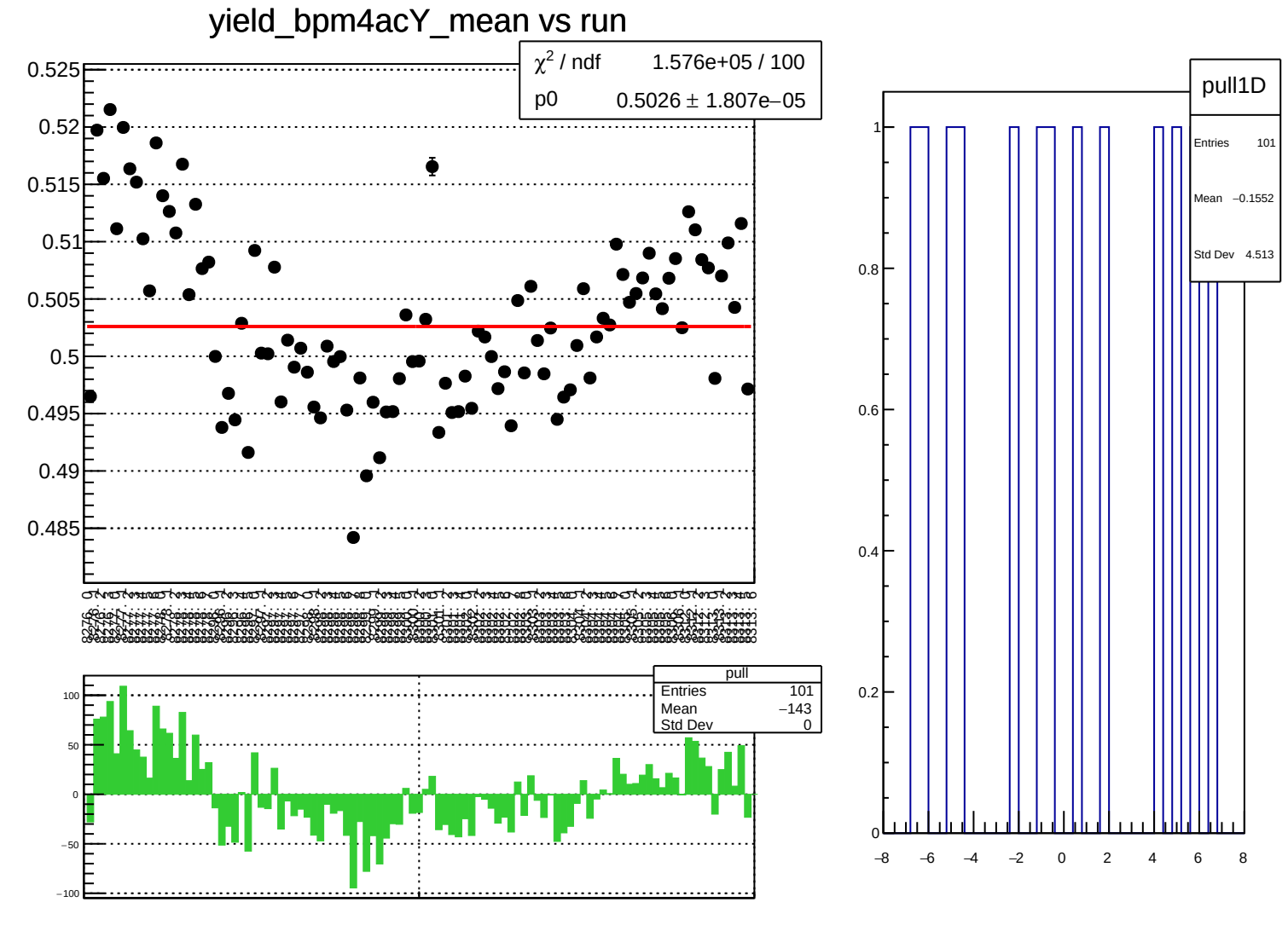

pull1D
Entries 101
Mean −1.298
Std Dev 3.305
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

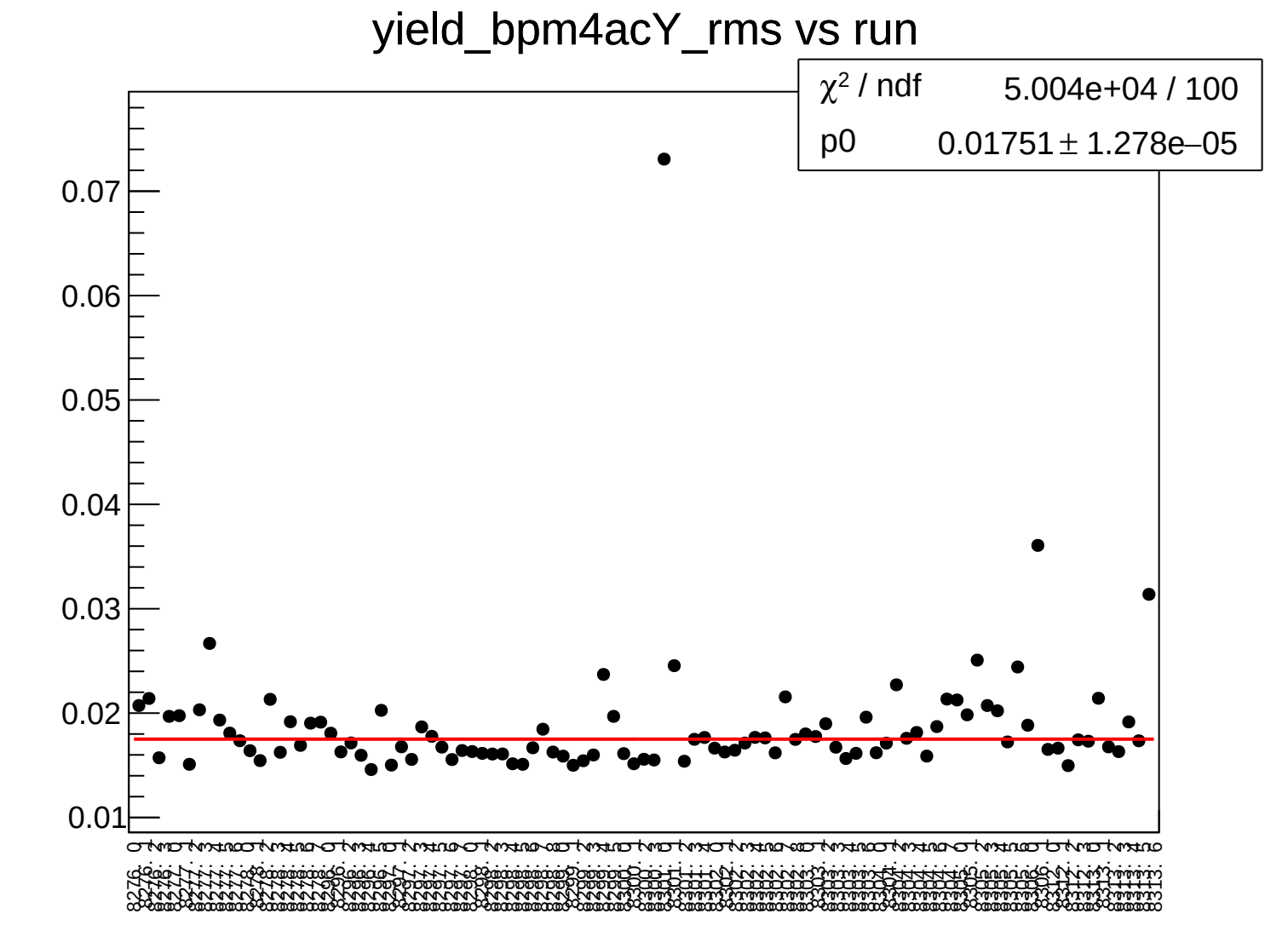

yield_bpm4eY_rms vs run
χ² / ndf 4.877e+04 / 100
p0 0.01676 ± 1.223e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

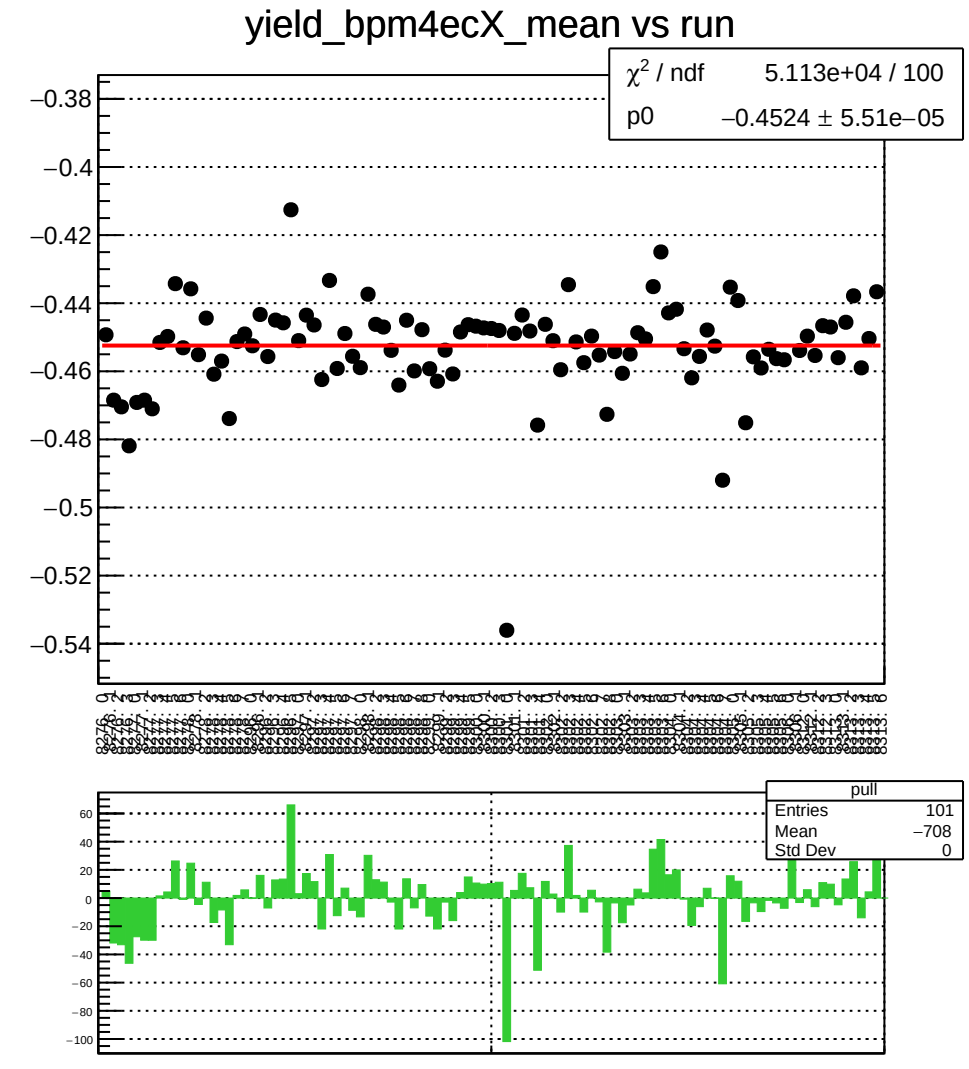

yield_bpm4acX_mean vs run
χ² / ndf 4.563e+04 / 100
p0 −1.188 ± 5.731e−05
−1.12
−1.14
−1.16
−1.18
−1.2
−1.22
−1.24
−1.26
−1.28
pull
Entries 101
Mean −1116
Std Dev 0
60
40
20
0
−20
−40
−60
−80
−100

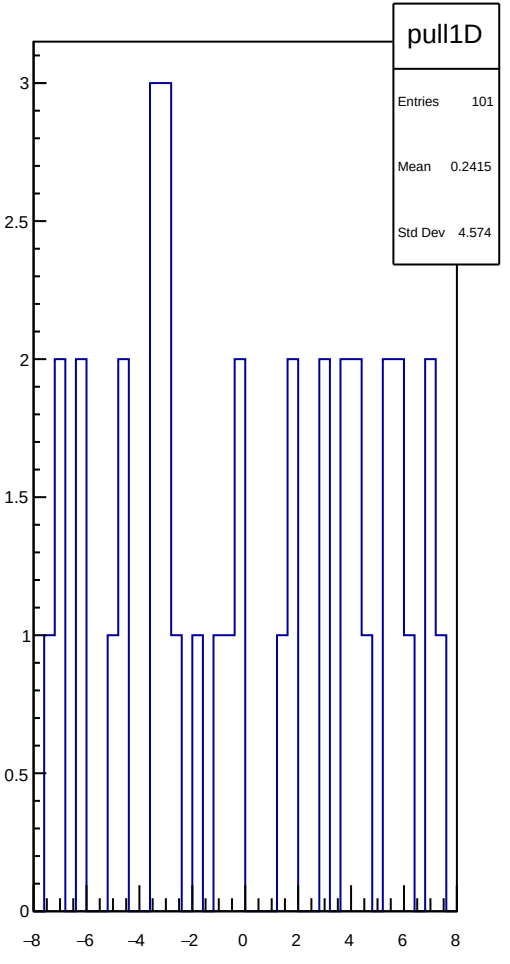

pull1D
Entries 101
Mean 0.2242
Std Dev 4.43
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

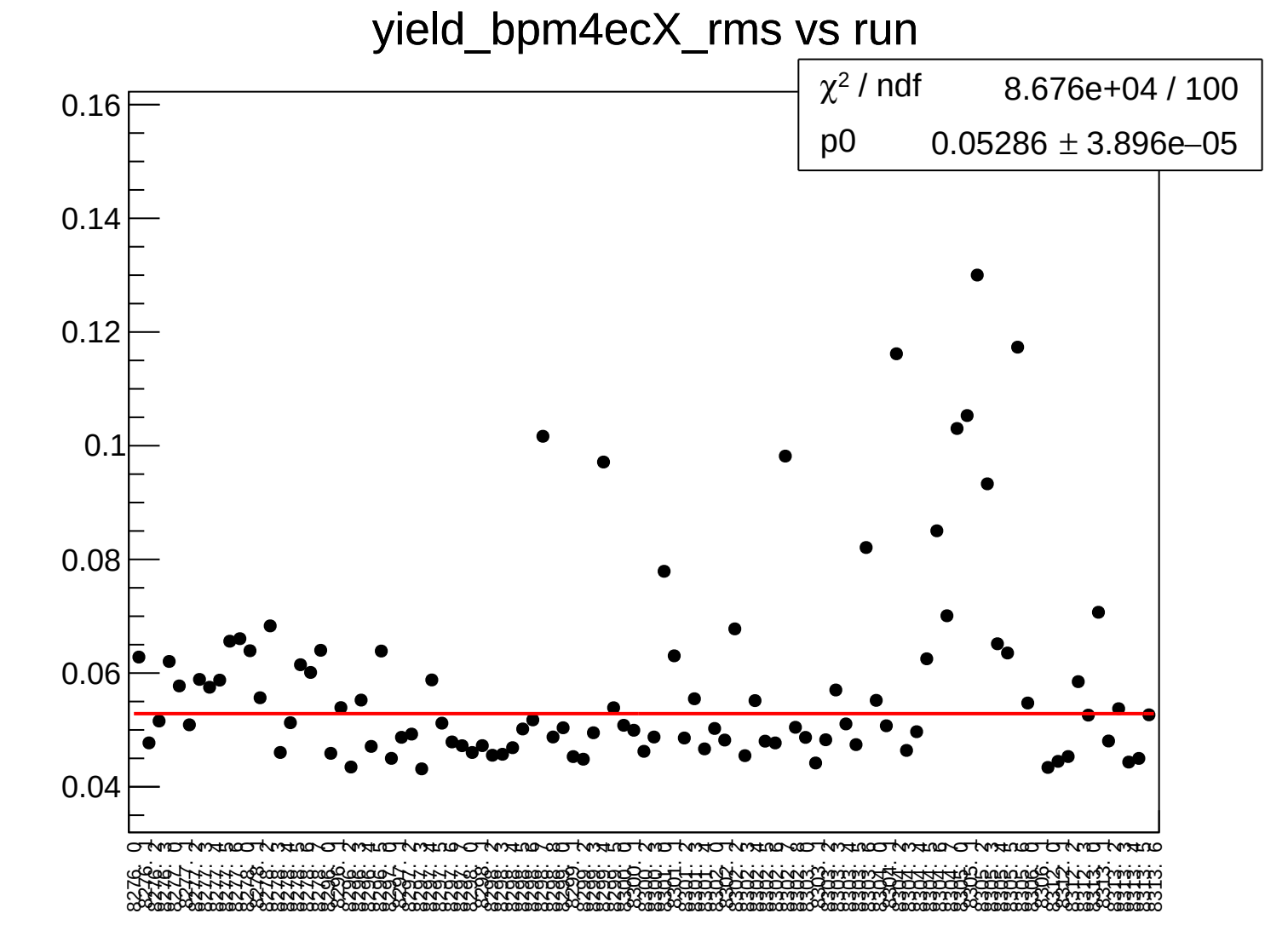

yield_bpm4acX_rms vs run
χ² / ndf 8.149e+04 / 100
p0 0.05506 ± 4.052e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04

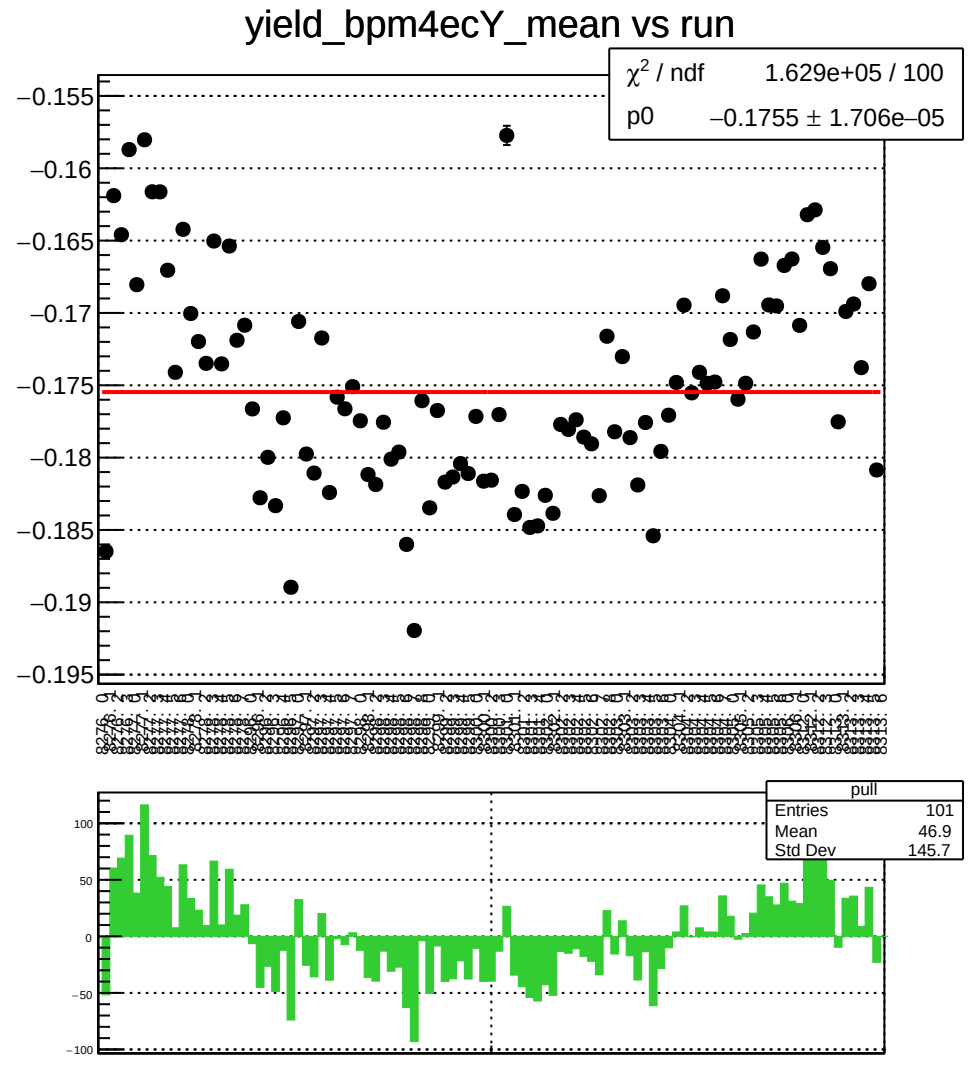

yield_bpm4acY_mean vs run
χ² / ndf 1.576e+05 / 100
p0 0.5026 ± 1.807e−05
0.525
0.52
0.515
0.51
0.505
0.5
0.495
0.49
0.485
pull
Entries 101
Mean −143
Std Dev 0
100
50
0
−50
−100
pull1D
Entries 101
Mean −0.1552
Std Dev 4.513
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

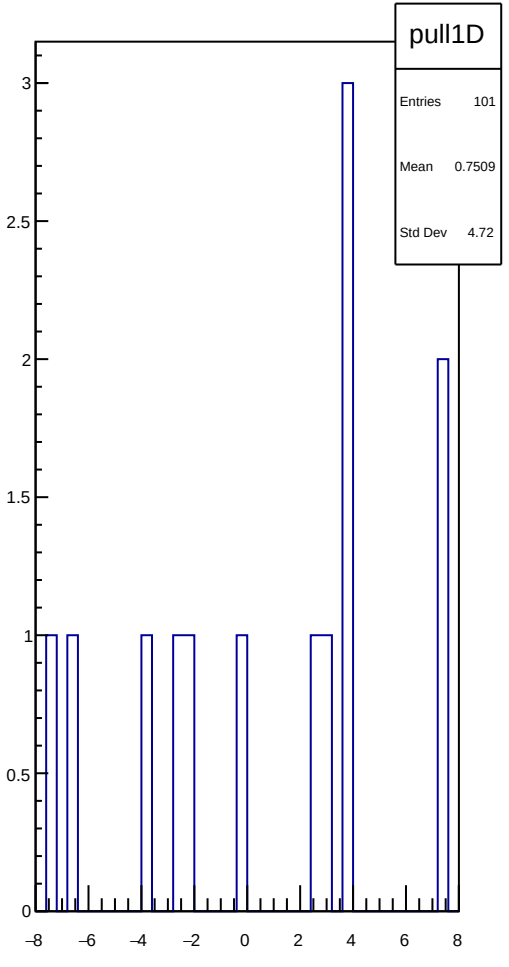

yield_bpm4acY_rms vs run
χ² / ndf 5.004e+04 / 100
p0 0.01751 ± 1.278e–05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

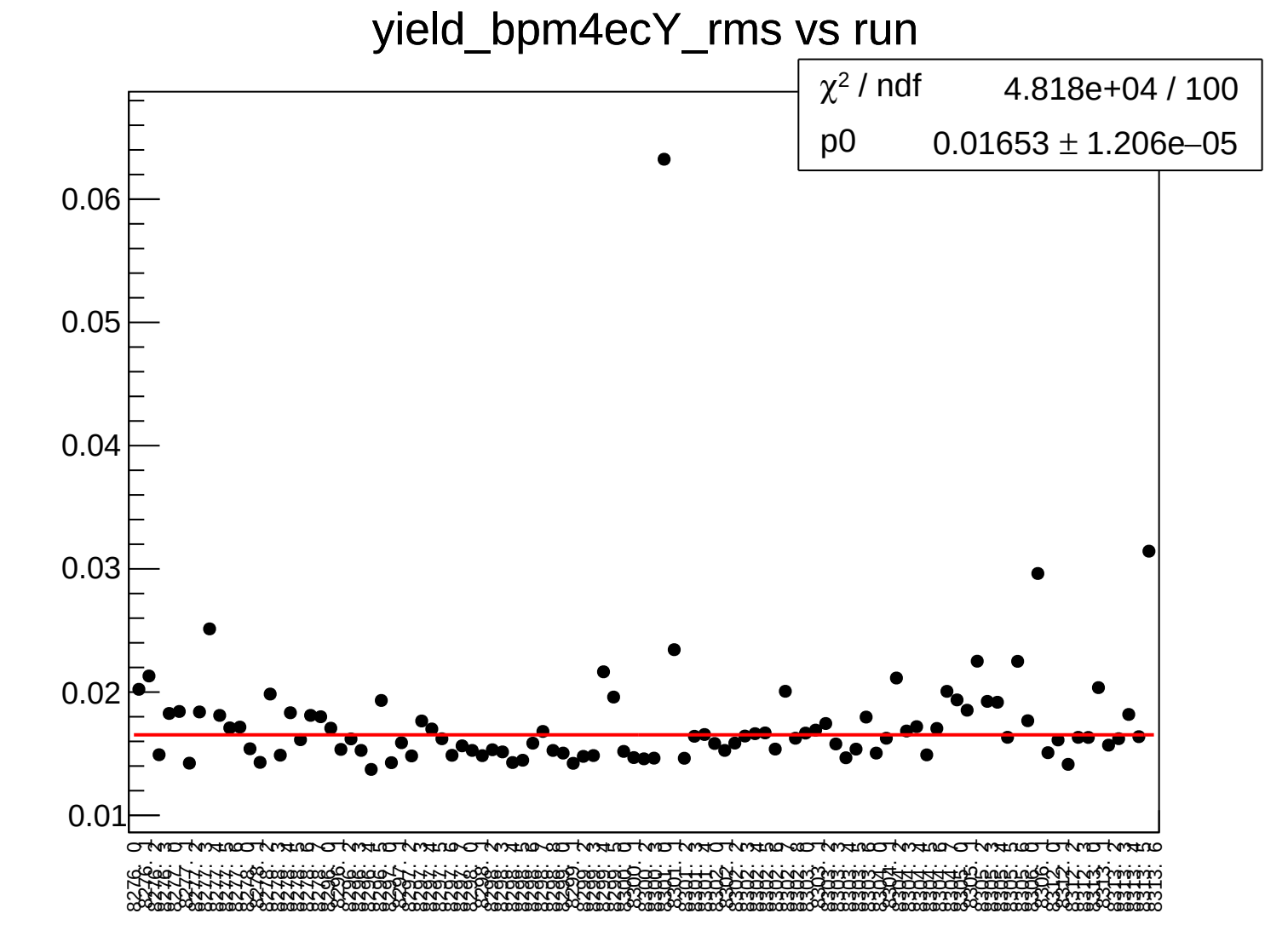

yield_bpm4ecX_mean vs run
χ² / ndf 5.113e+04 / 100
p0 −0.4524 ± 5.51e−05
−0.38
−0.4
−0.42
−0.44
−0.46
−0.48
−0.5
−0.52
−0.54
pull
Entries 101
Mean −708
Std Dev 0
60
40
20
0
−20
−40
−60
−80
−100

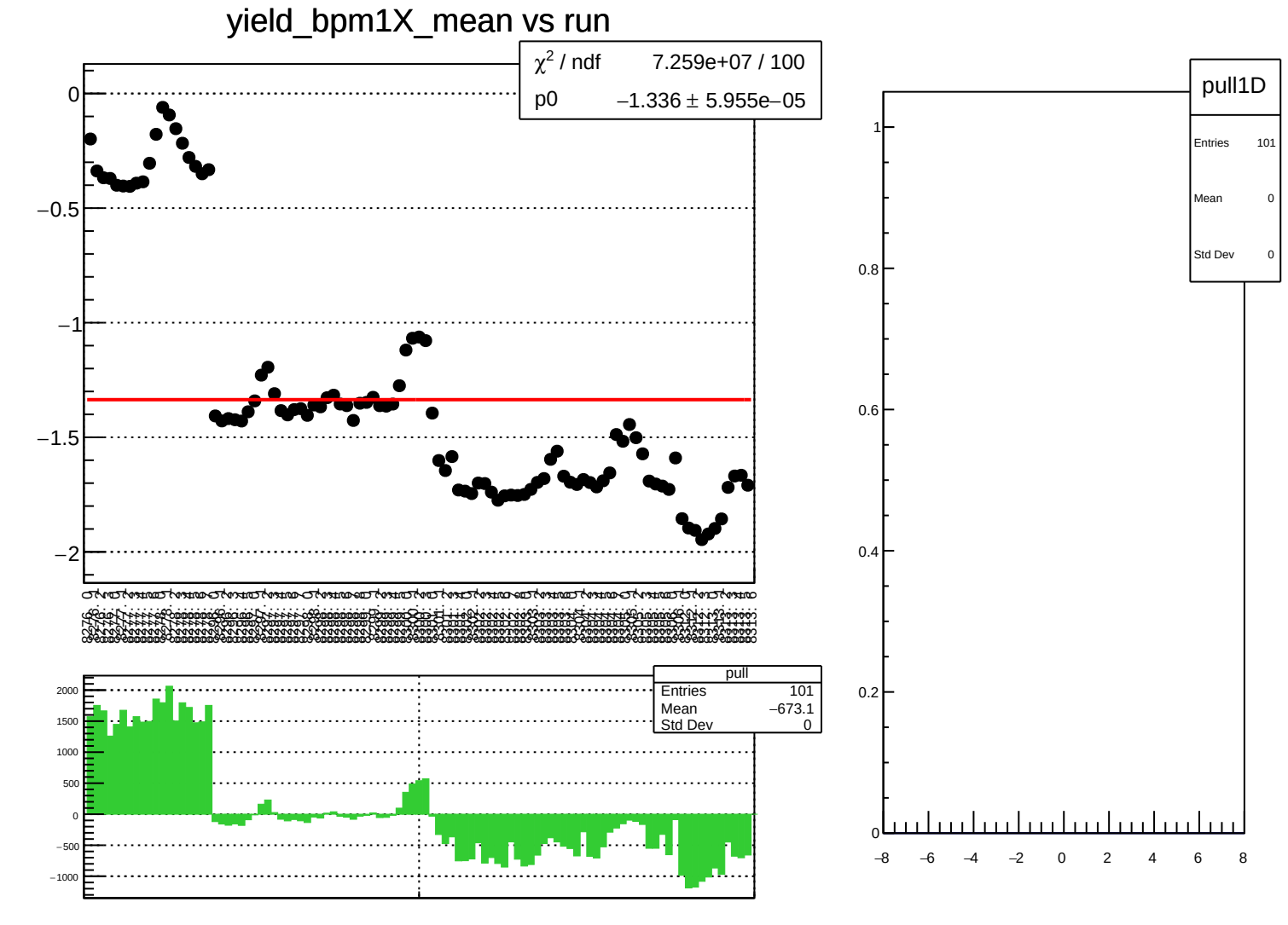

pull1D
Entries 101
Mean 0.2415
Std Dev 4.574
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

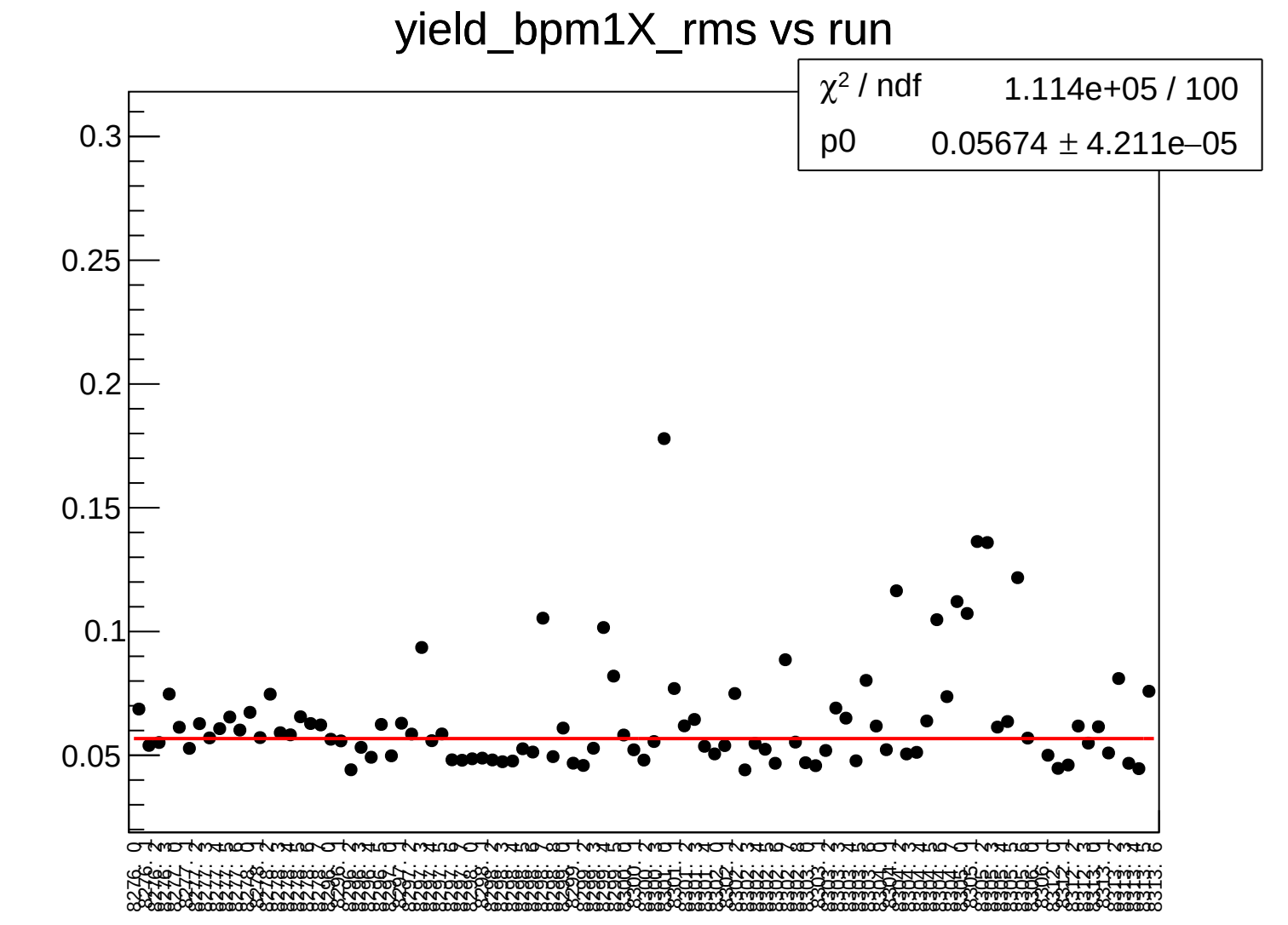

yield_bpm4ecX_rms vs run
χ² / ndf 8.676e+04 / 100
p0 0.05286 ± 3.896e–05
0.16
0.14
0.12
0.1
0.08
0.06
0.04

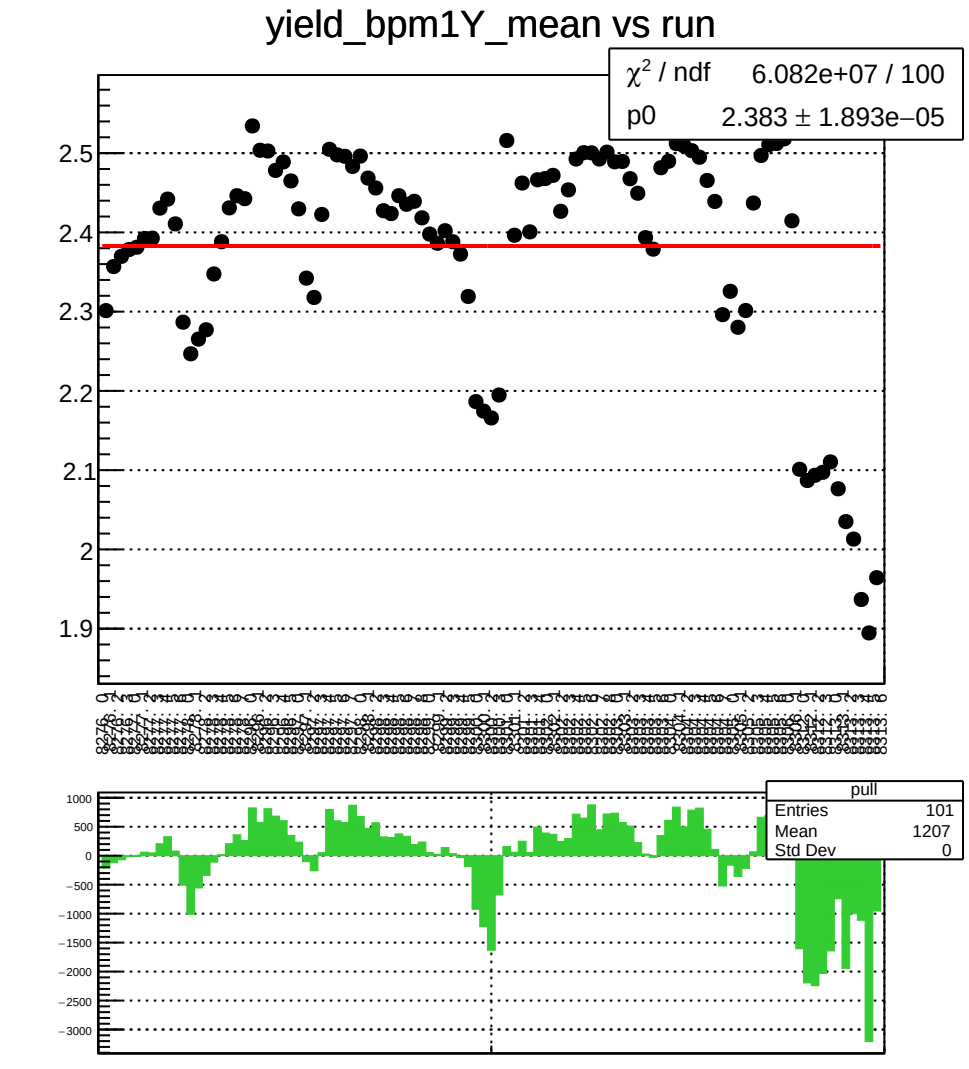

yield_bpm4ecY_mean vs run
χ² / ndf 1.629e+05 / 100
p0 −0.1755 ± 1.706e−05
−0.155
−0.16
−0.165
−0.17
−0.175
−0.18
−0.185
−0.19
−0.195
pull
Entries 101
Mean 46.9
Std Dev 145.7
100
50
0
−50
−100

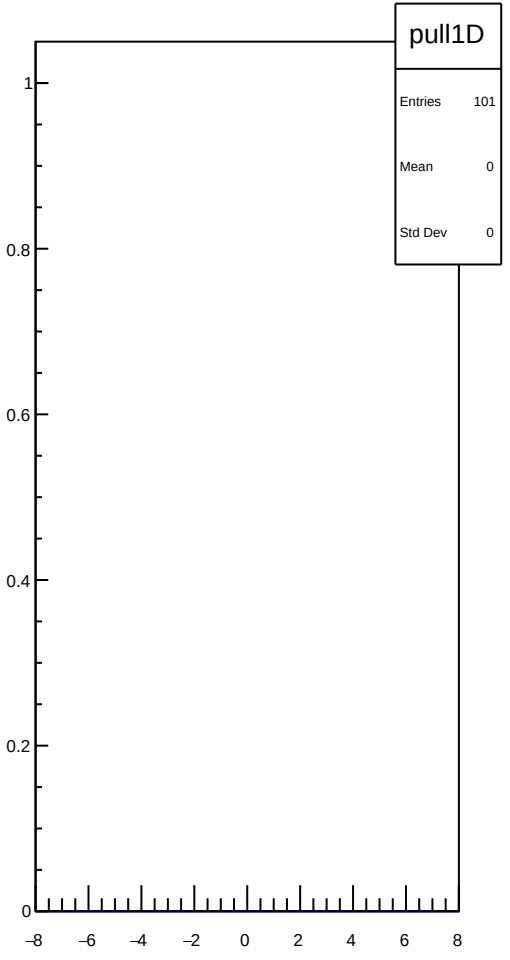

pull1D
Entries 101
Mean 0.7509
Std Dev 4.72
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

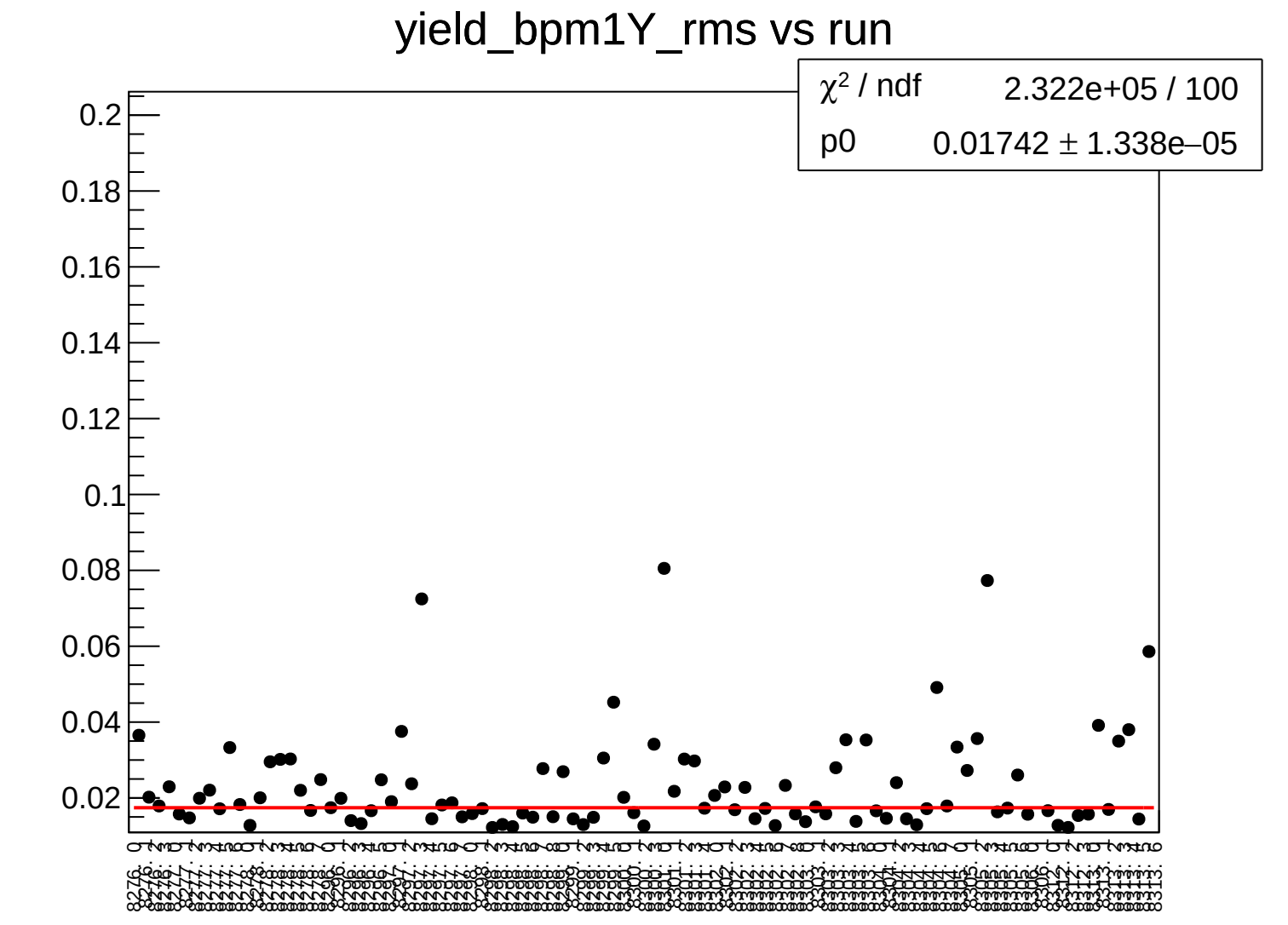

yield_bpm4ecY_rms vs run
χ² / ndf 4.818e+04 / 100
p0 0.01653 ± 1.206e−05
0.06
0.05
0.04
0.03
0.02
0.01

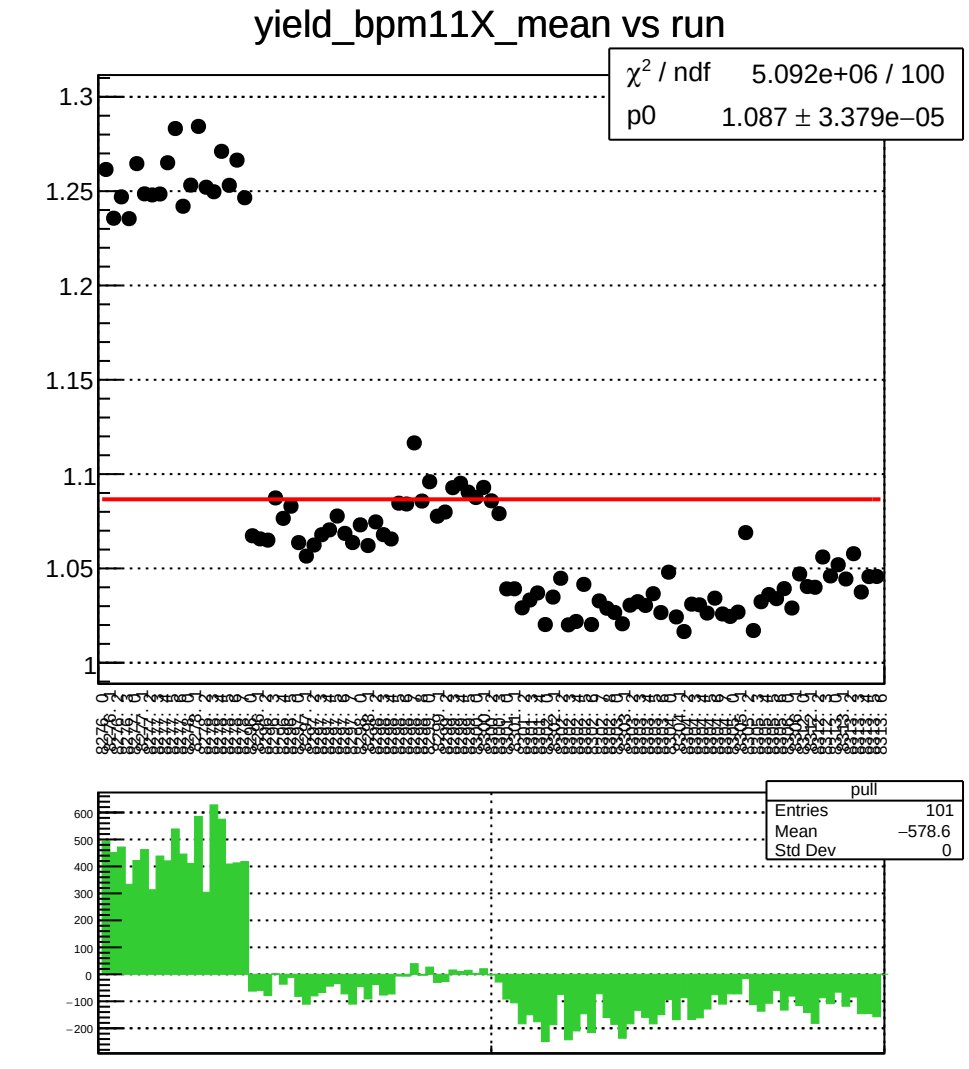

yield_bpm1X_mean vs run
χ² / ndf 7.259e+07 / 100
p0 −1.336 ± 5.955e−05
pull
Entries 101
Mean −673.1
Std Dev 0
pull1D
Entries 101
Mean 0
Std Dev 0

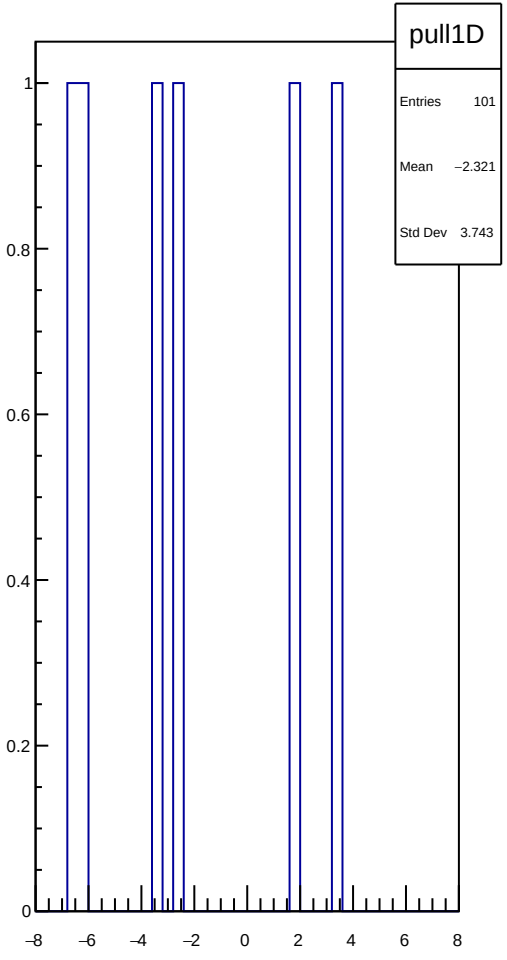

yield_bpm1X_rms vs run
χ² / ndf 1.114e+05 / 100
p0 0.05674 ± 4.211e–05
0.3
0.25
0.2
0.15
0.1
0.05

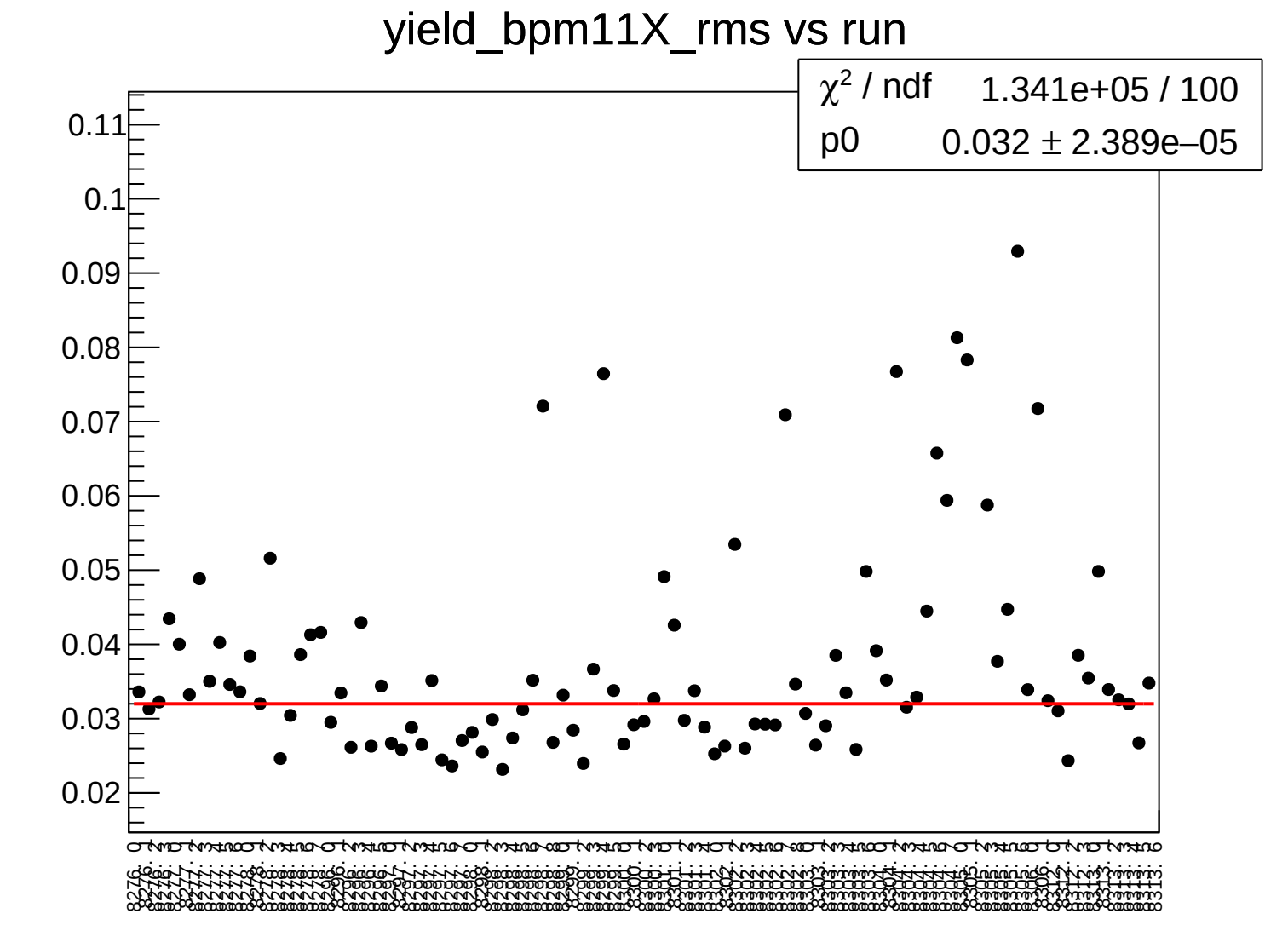

yield_bpm1Y_mean vs run
χ² / ndf 6.082e+07 / 100
p0 2.383 ± 1.893e−05
2.5
2.4
2.3
2.2
2.1
2
1.9
pull
Entries 101
Mean 1207
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000
−2500
−3000

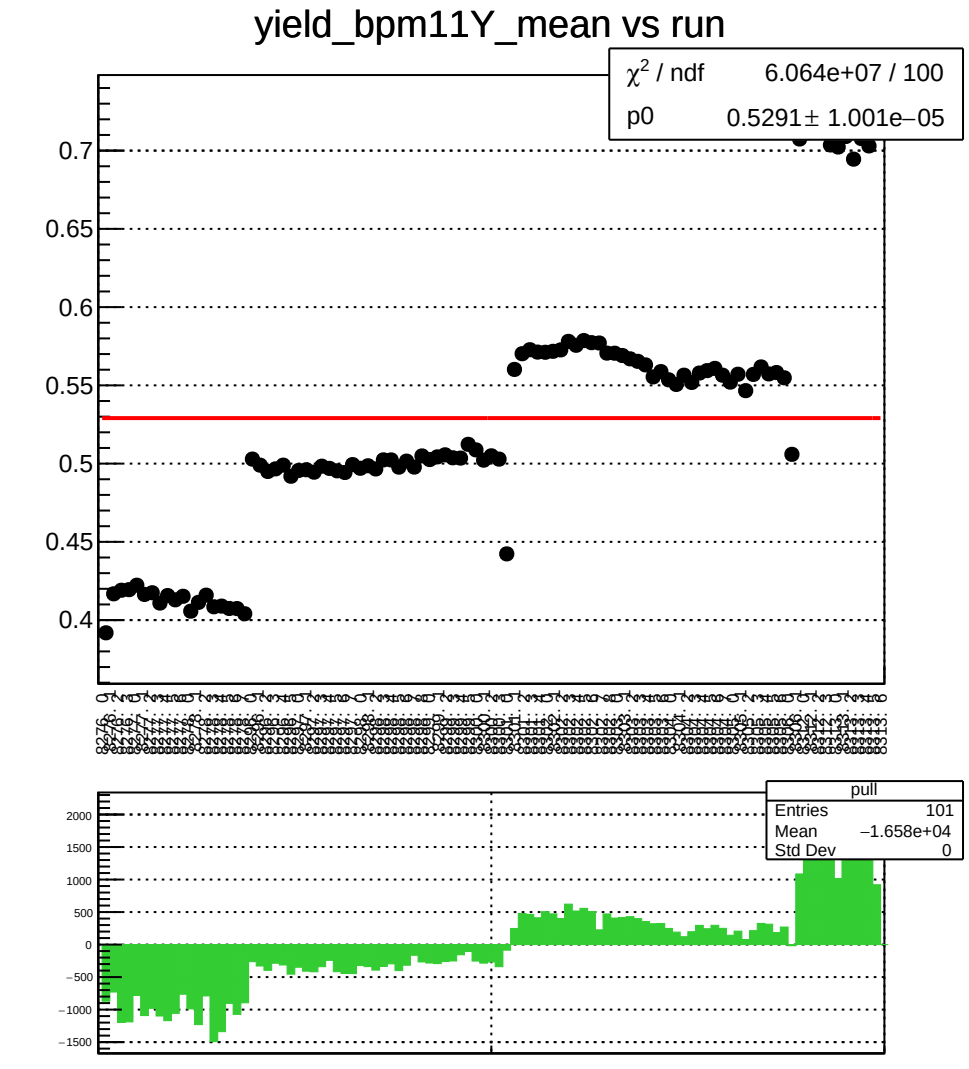

pull1D
Entries 101
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

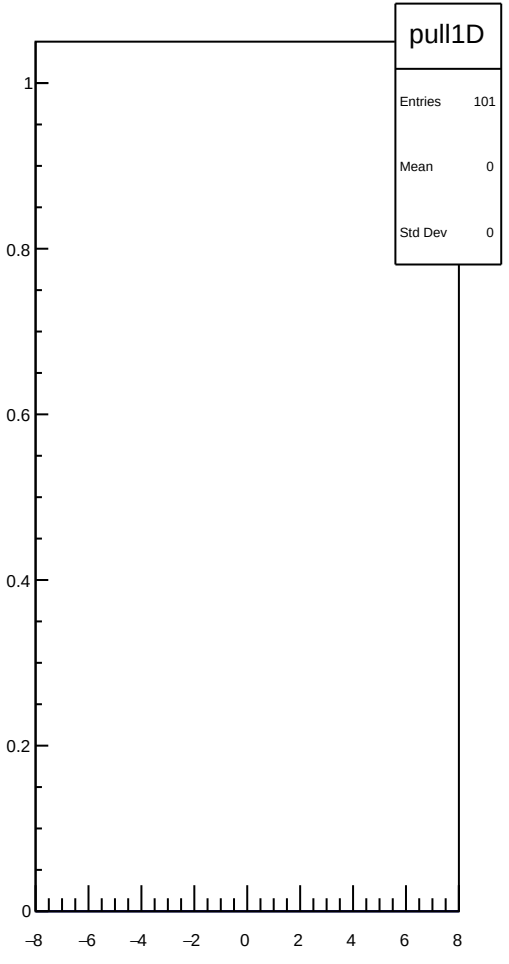

yield_bpm1Y_rms vs run
χ² / ndf 2.322e+05 / 100
p0 0.01742 ± 1.338e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

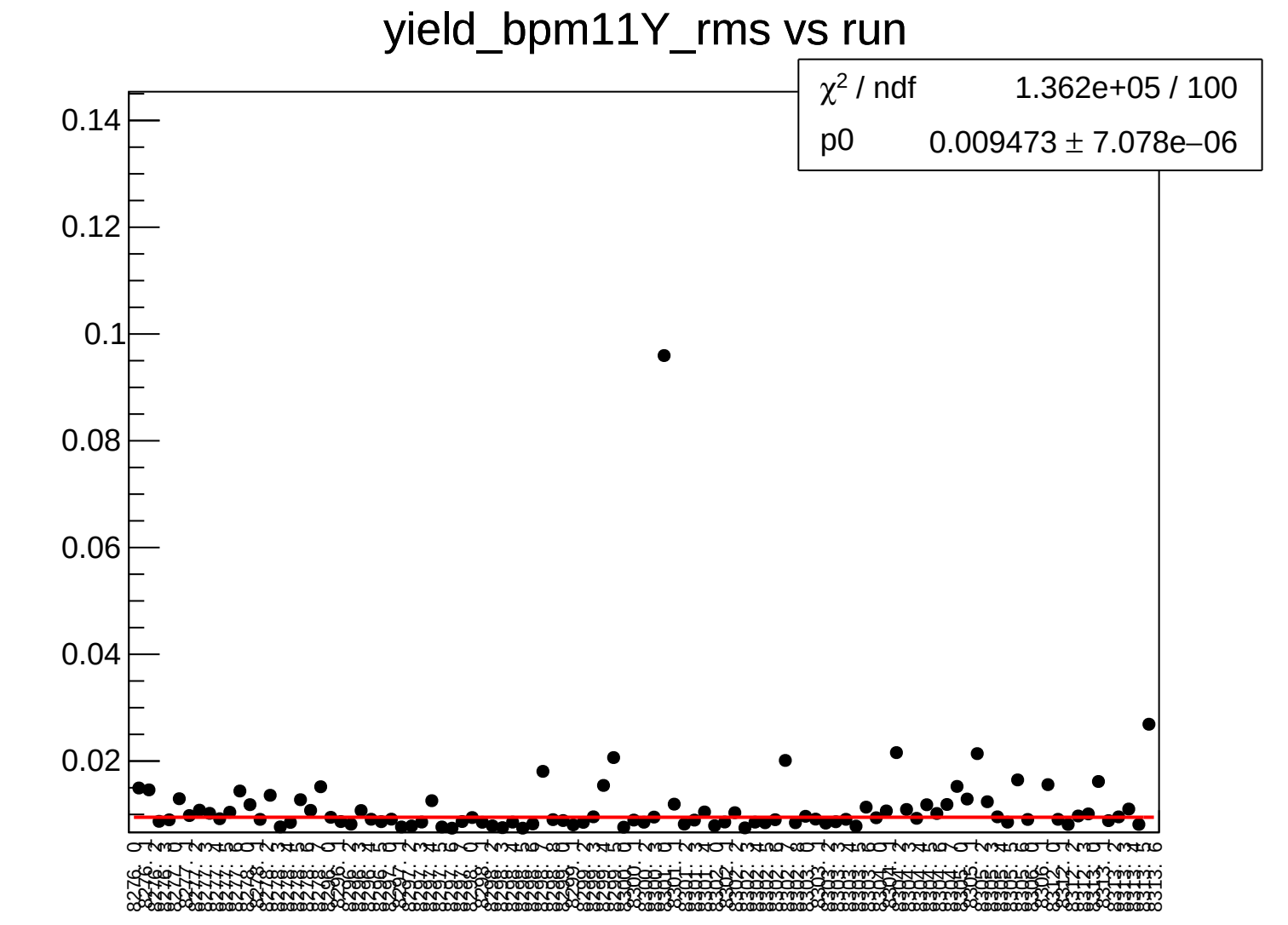

yield_bpm11X_mean vs run
χ² / ndf 5.092e+06 / 100
p0 1.087 ± 3.379e−05
1.3
1.25
1.2
1.15
1.1
1.05
1
pull
Entries 101
Mean −578.6
Std Dev 0
600
500
400
300
200
100
0
−100
−200

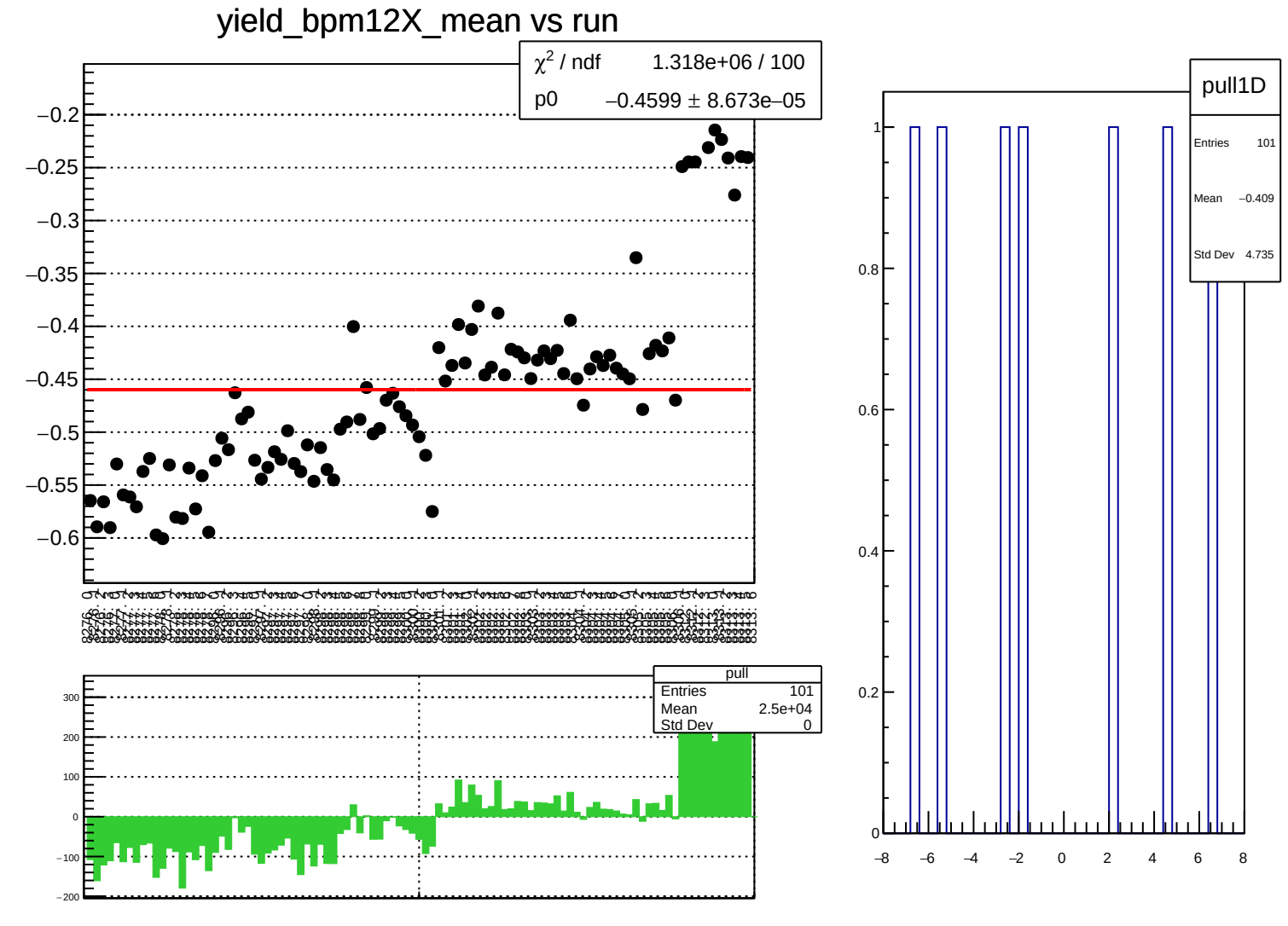

pull1D
Entries 101
Mean −2.321
Std Dev 3.743
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

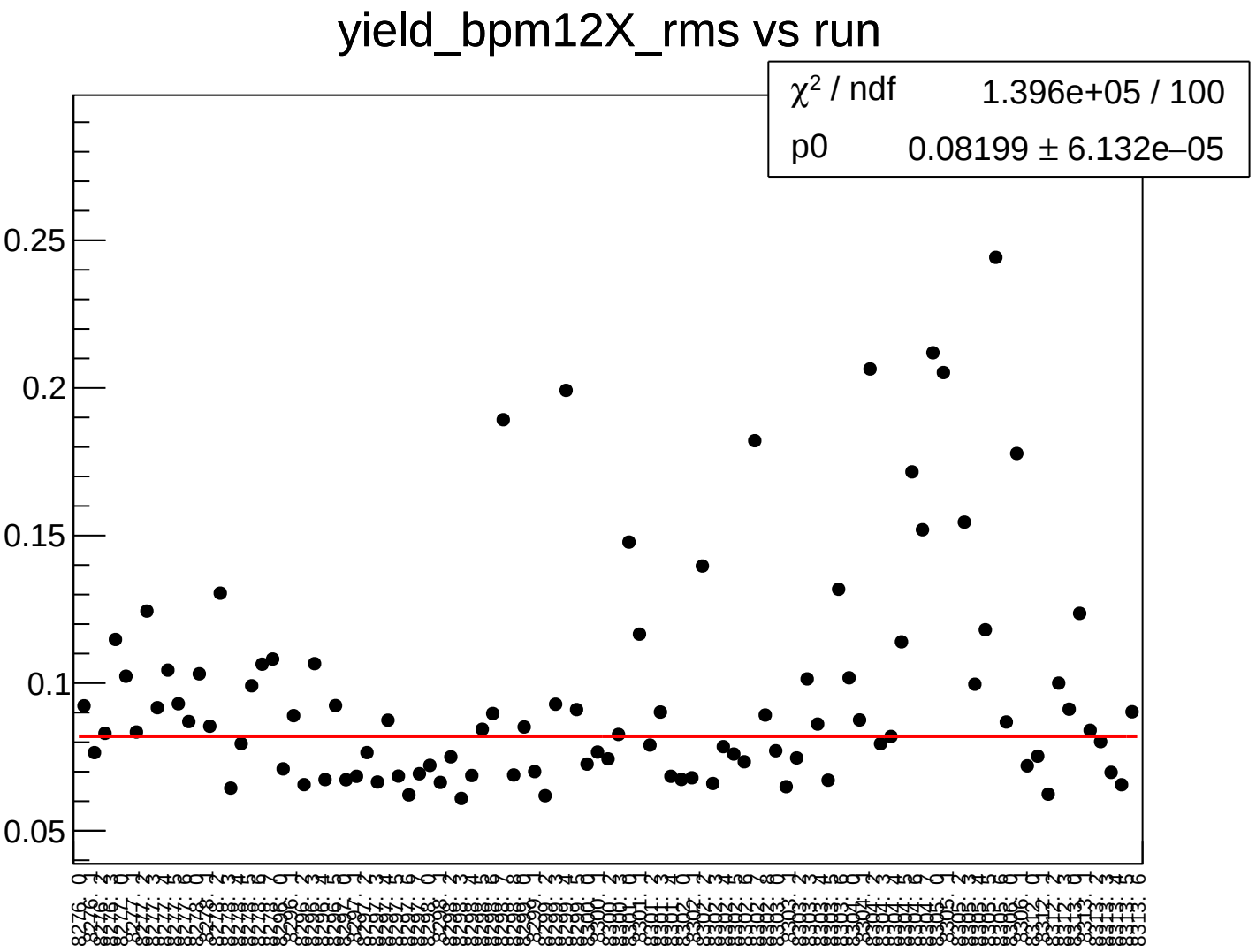

yield_bpm11X_rms vs run
χ^2 / ndf 1.341e+05 / 100
p0 0.032 ± 2.389e−05
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02

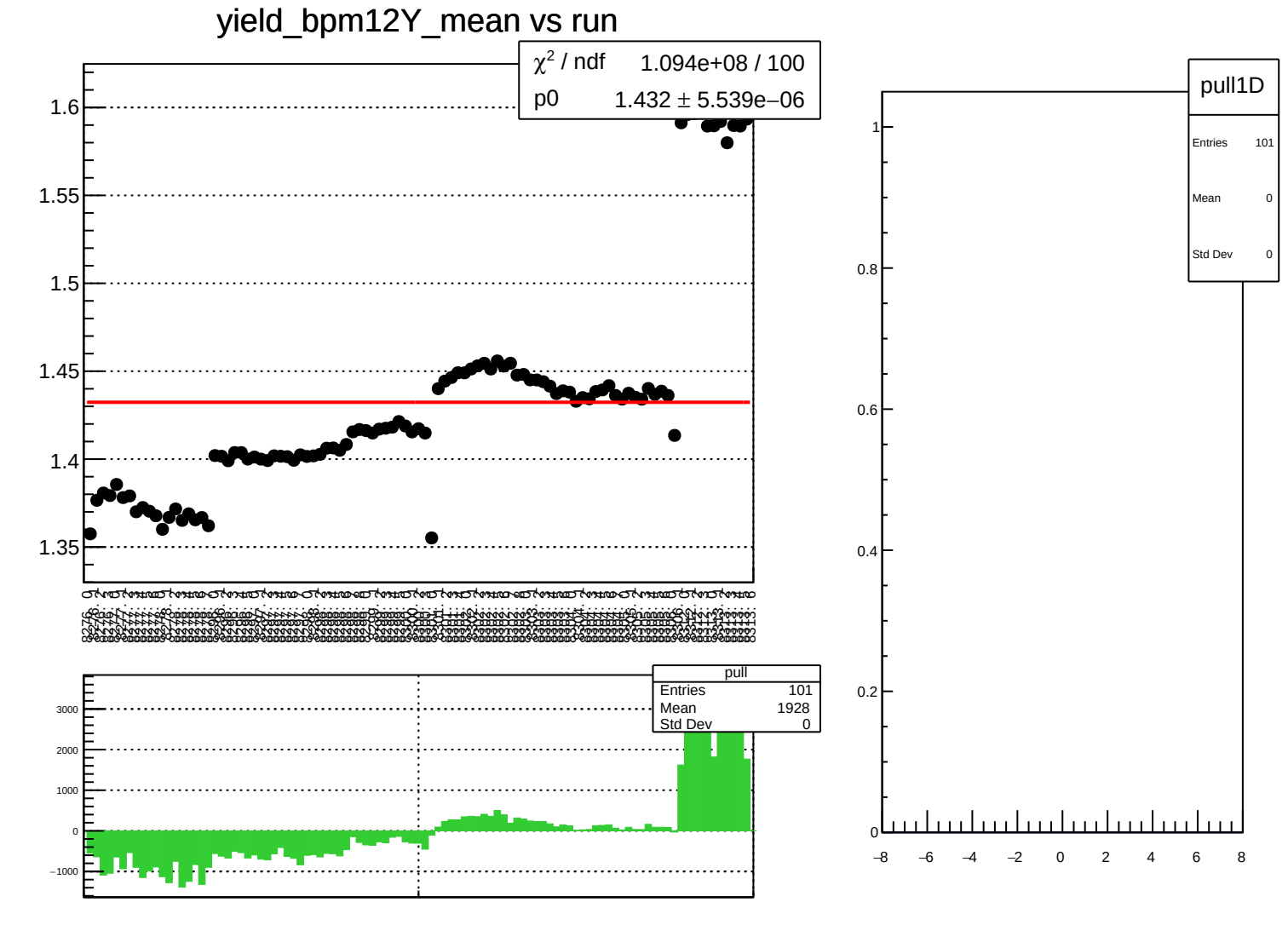

yield_bpm11Y_mean vs run
χ² / ndf 6.064e+07 / 100
p0 0.5291 ± 1.001e−05
0.7
0.65
0.6
0.55
0.5
0.45
0.4
pull
Entries 101
Mean −1.658e+04
Std Dev 0
2000
1500
1000
500
0
−500
−1000
−1500

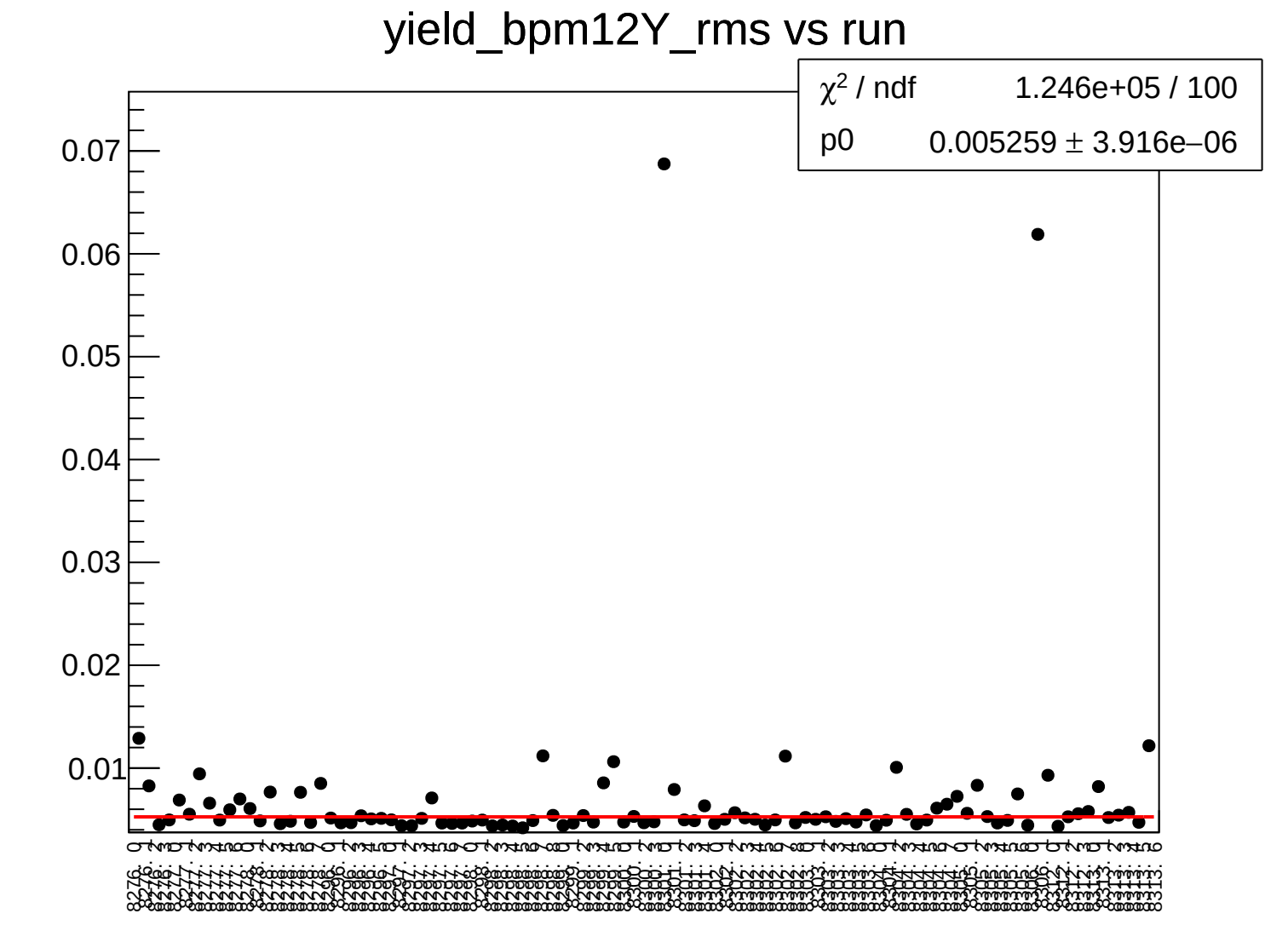

pull1D
Entries 101
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

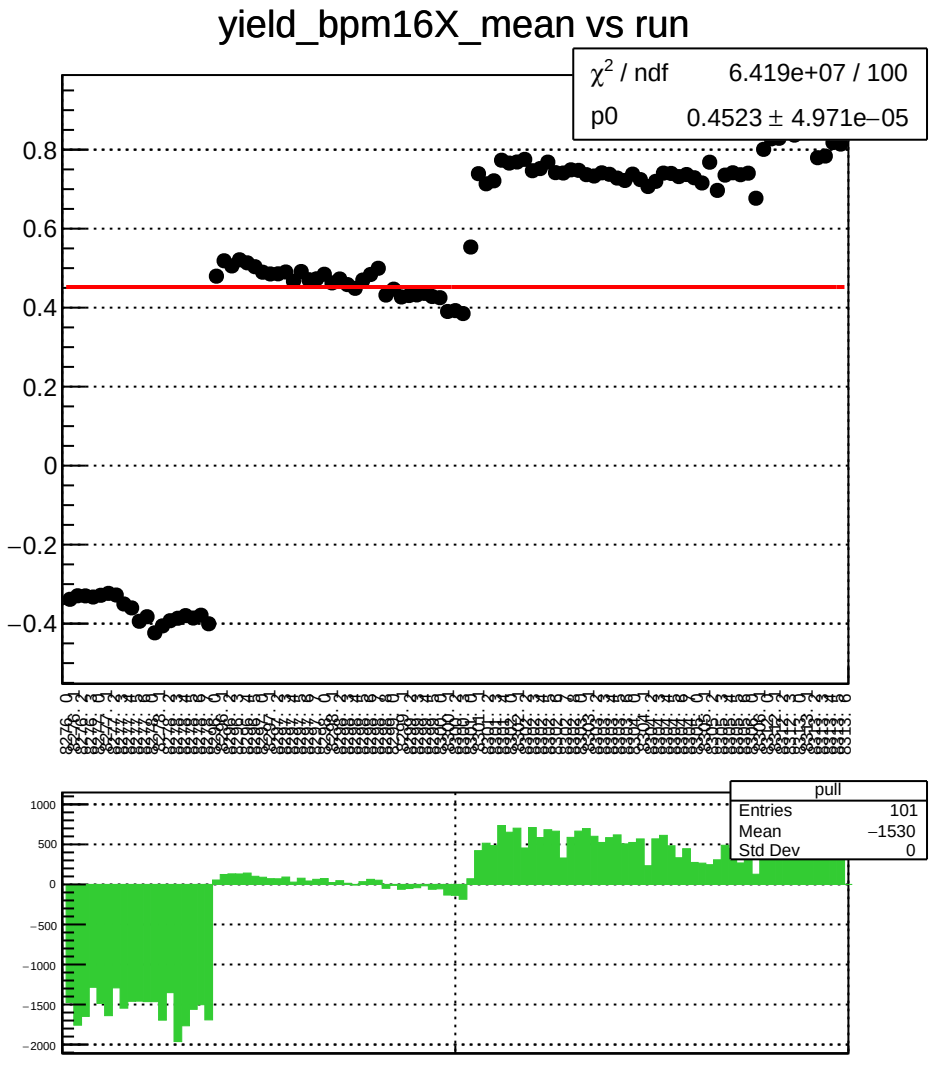

yield_bpm11Y_rms vs run
χ² / ndf 1.362e+05 / 100
p0 0.009473 ± 7.078e−06
0.14
0.12
0.1
0.08
0.06
0.04
0.02

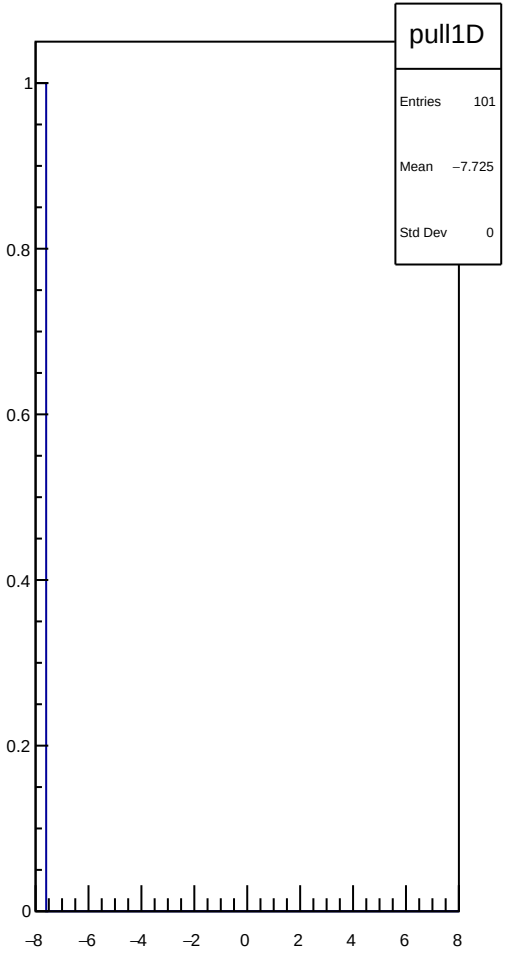

yield_bpm12X_mean vs run
χ² / ndf 1.318e+06 / 100
p0 −0.4599 ± 8.673e−05
pull
Entries 101
Mean 2.5e+04
Std Dev 0
pull1D
Entries 101
Mean −0.409
Std Dev 4.735

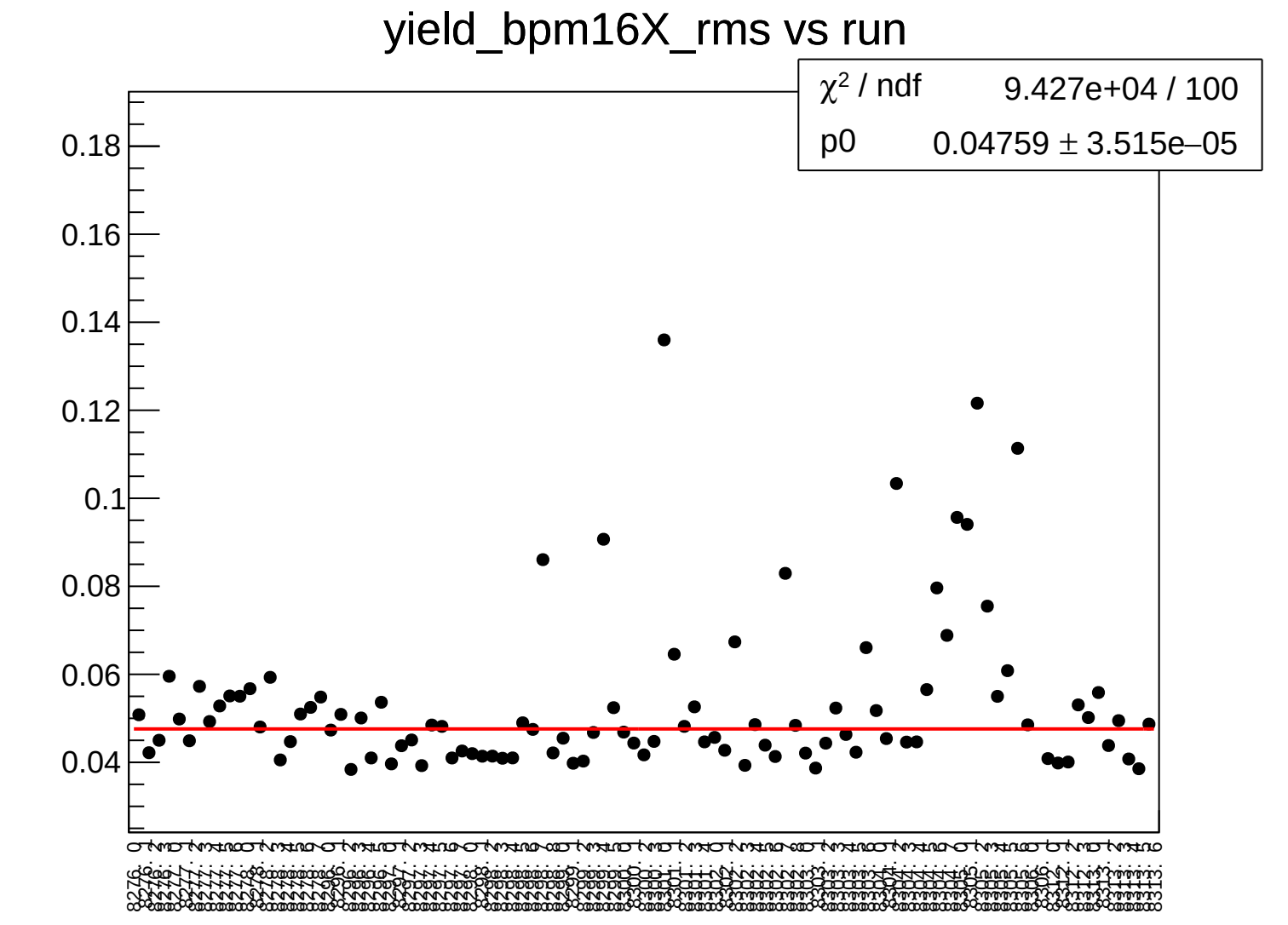

yield_bpm12X_rms vs run
χ² / ndf 1.396e+05 / 100
p0 0.08199 ± 6.132e–05
0.25
0.2
0.15
0.1
0.05

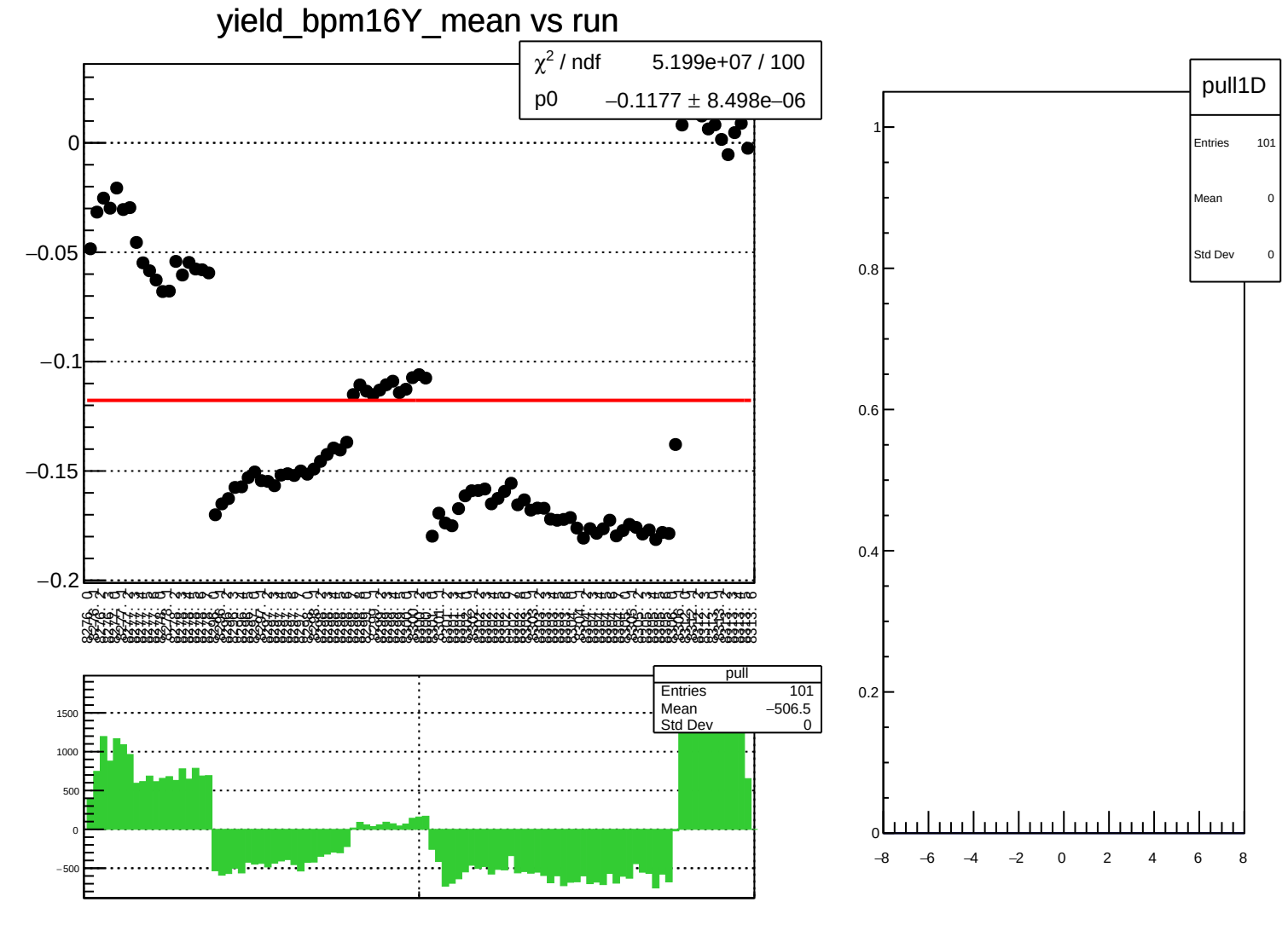

yield_bpm12Y_mean vs run
χ² / ndf 1.094e+08 / 100
p0 1.432 ± 5.539e−06
1.6
1.55
1.5
1.45
1.4
1.35
pull
Entries 101
Mean 1928
Std Dev 0
3000
2000
1000
0
−1000
pull1D
Entries 101
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

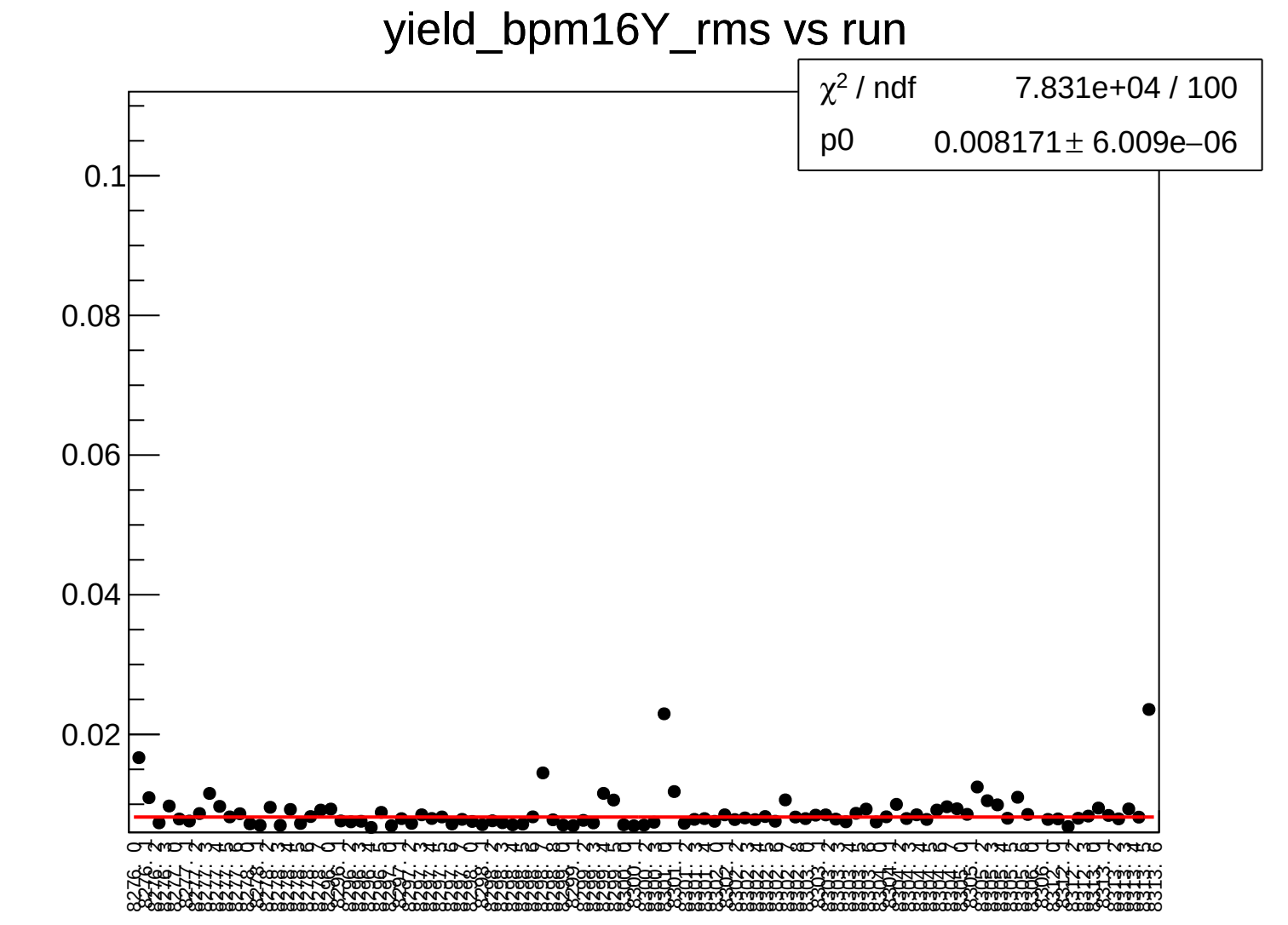

yield_bpm12Y_rms vs run
χ² / ndf 1.246e+05 / 100
p0 0.005259 ± 3.916e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

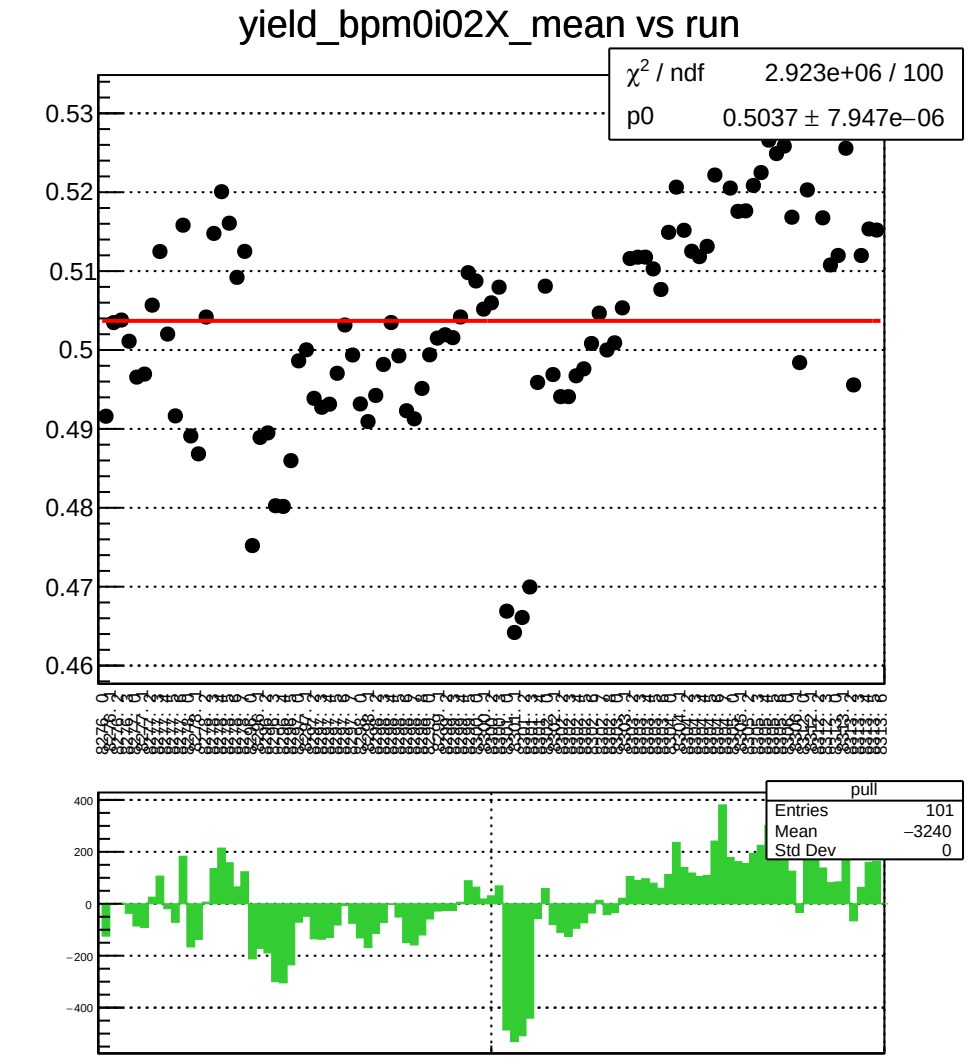

yield_bpm16X_mean vs run
χ² / ndf 6.419e+07 / 100
p0 0.4523 ± 4.971e−05
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 101
Mean −1530
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000

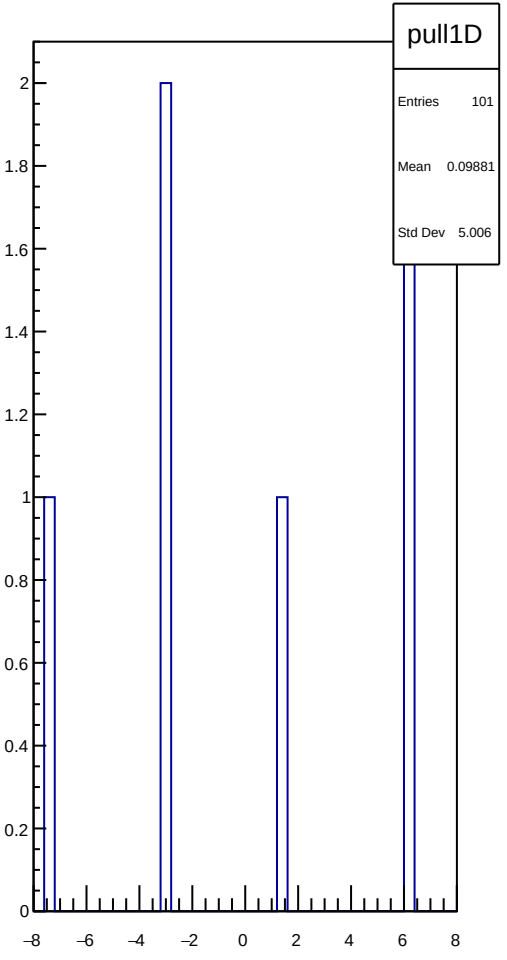

pull1D
Entries 101
Mean −7.725
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

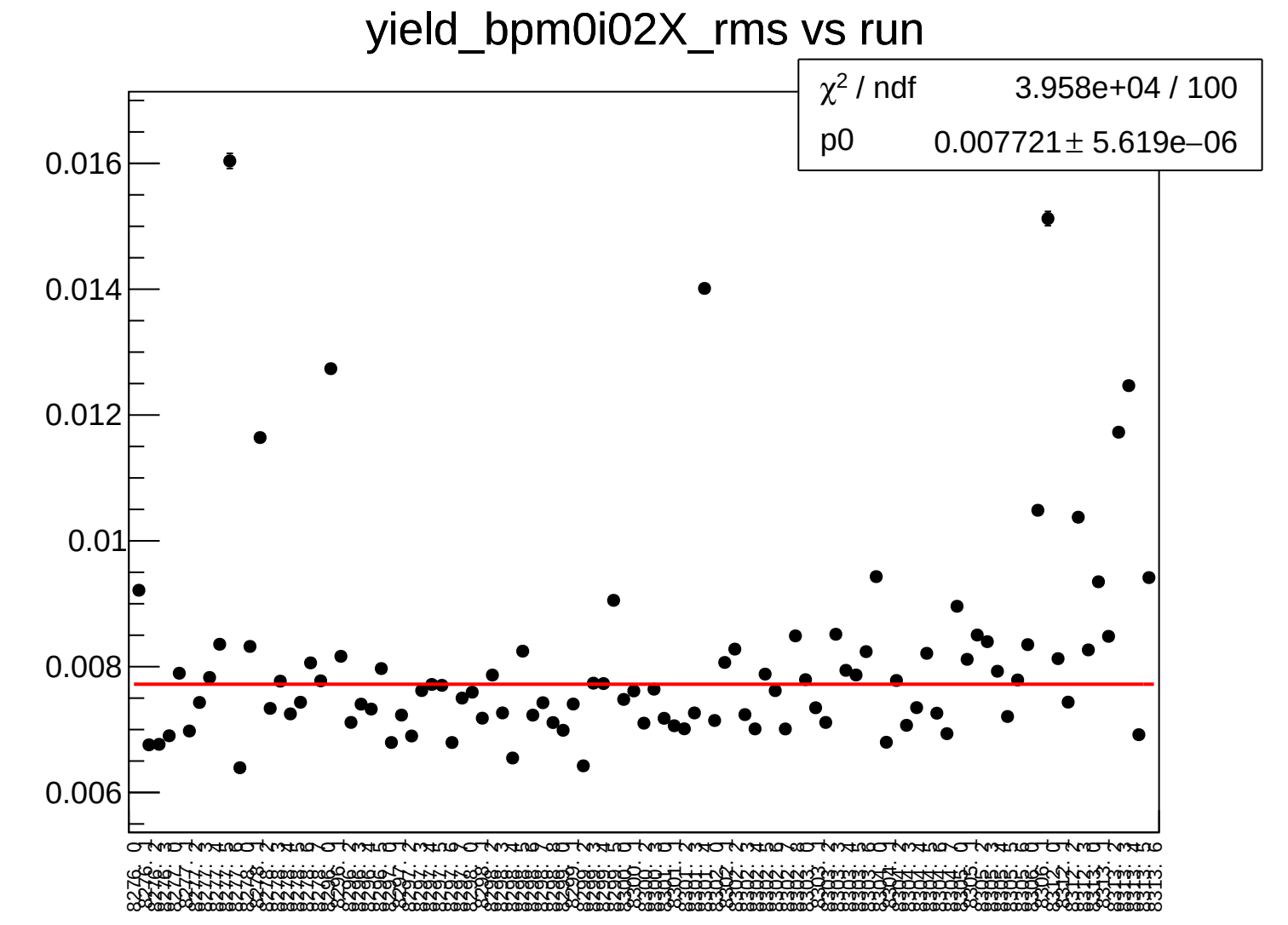

yield_bpm16X_rms vs run
χ² / ndf 9.427e+04 / 100
p0 0.04759 ± 3.515e−05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04

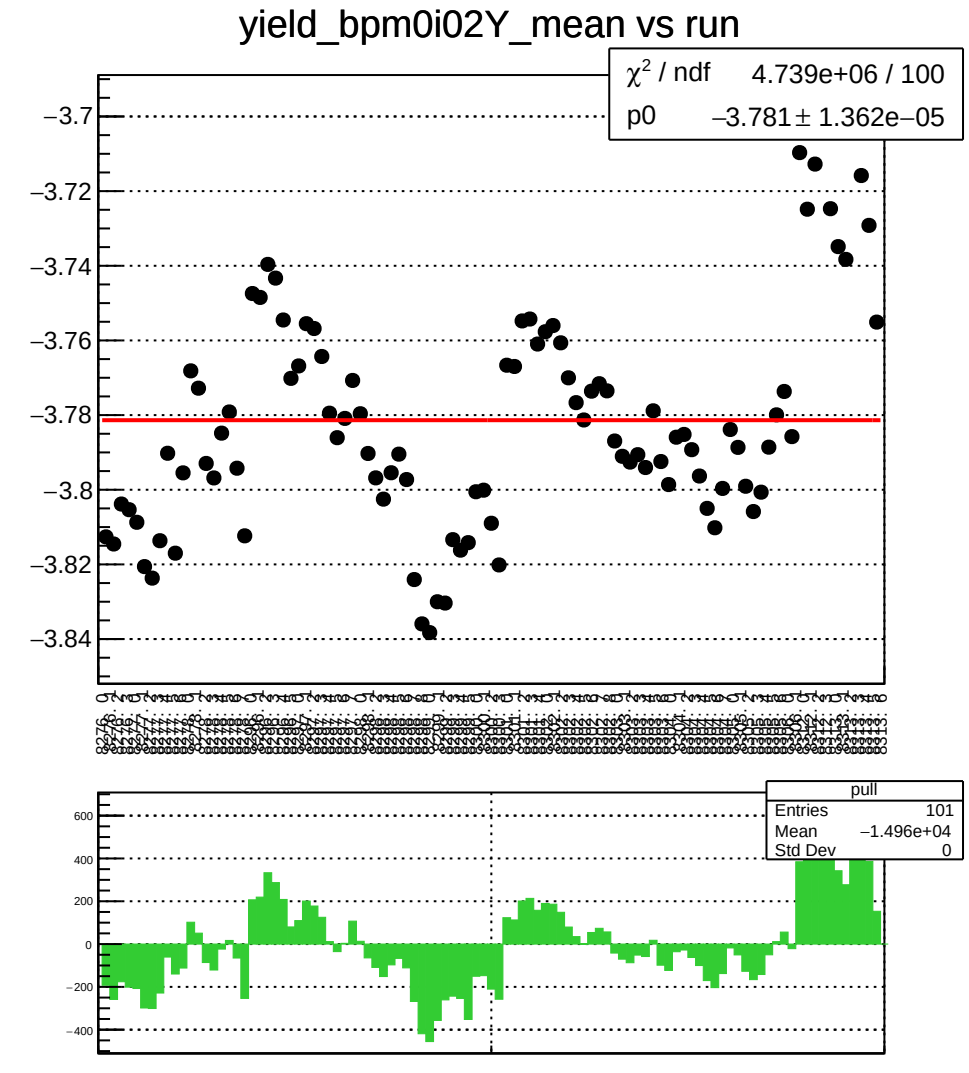

yield_bpm16Y_mean vs run
χ² / ndf 5.199e+07 / 100
p0 −0.1177 ± 8.498e−06
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 101
Mean −506.5
Std Dev 0
1500
1000
500
0
−500
pull1D
Entries 101
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

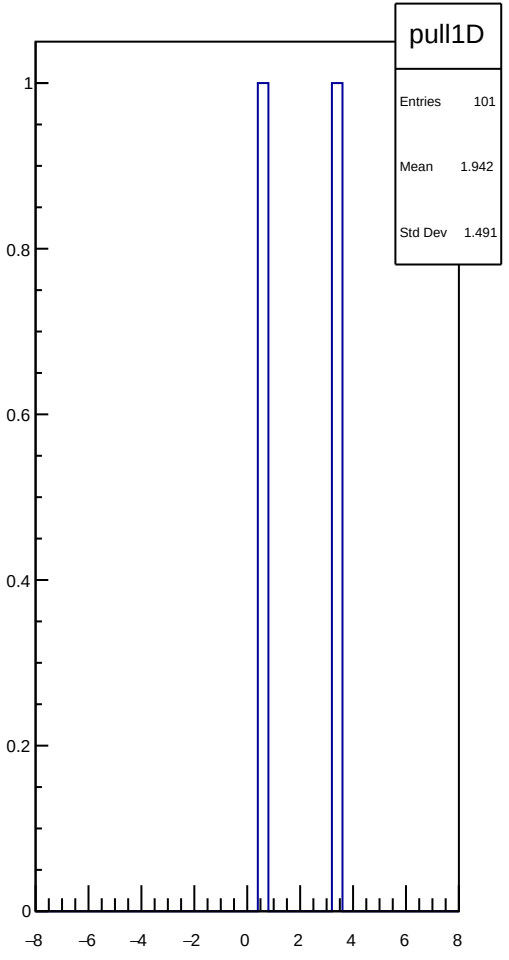

yield_bpm16Y_rms vs run
χ^2 / ndf 7.831e+04 / 100
p0 0.008171 ± 6.009e−06
0.1
0.08
0.06
0.04
0.02

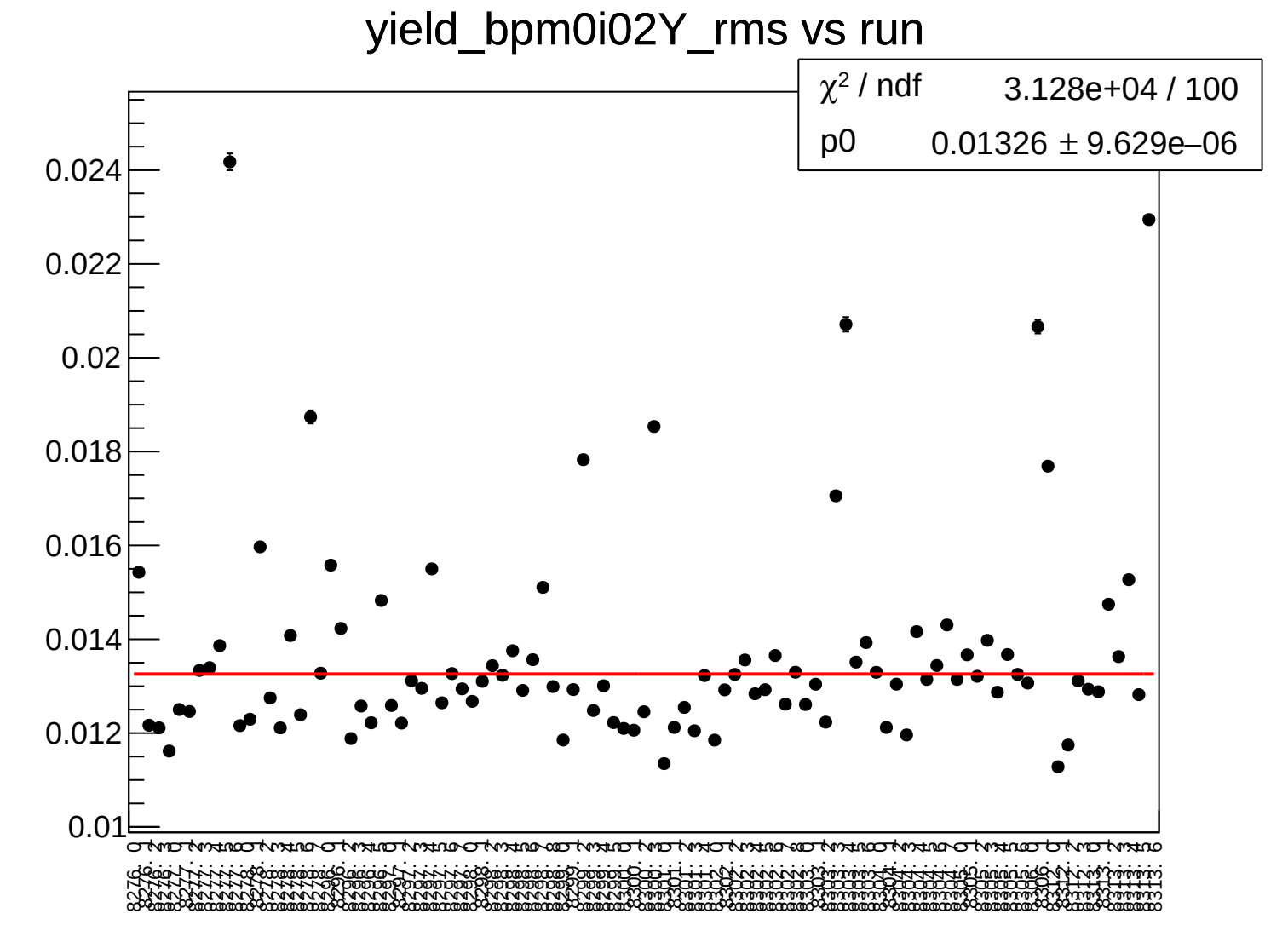

yield_bpm0i02X_mean vs run
χ² / ndf 2.923e+06 / 100
p0 0.5037 ± 7.947e−06
0.53
0.52
0.51
0.5
0.49
0.48
0.47
0.46
pull
Entries 101
Mean −3240
Std Dev 0
400
200
0
−200
−400

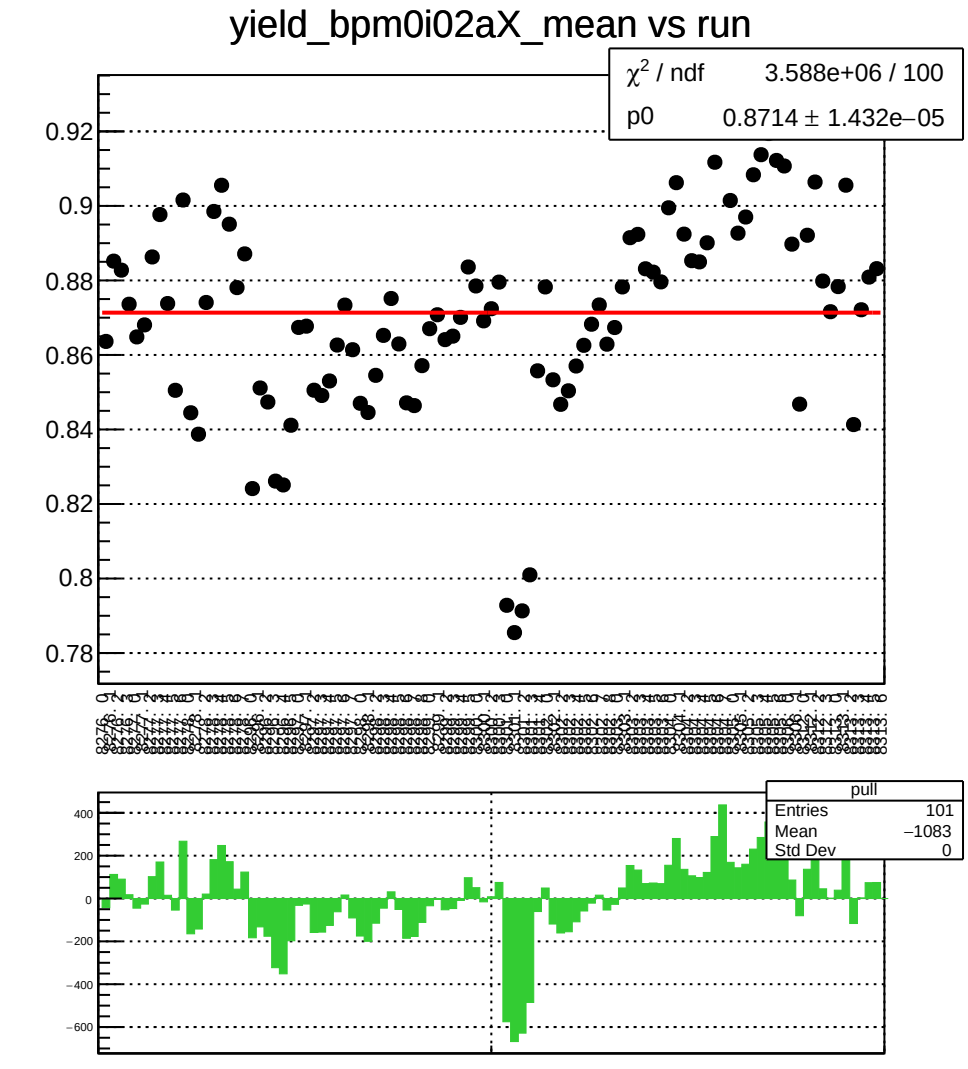

pull1D
Entries 101
Mean 0.09881
Std Dev 5.006
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

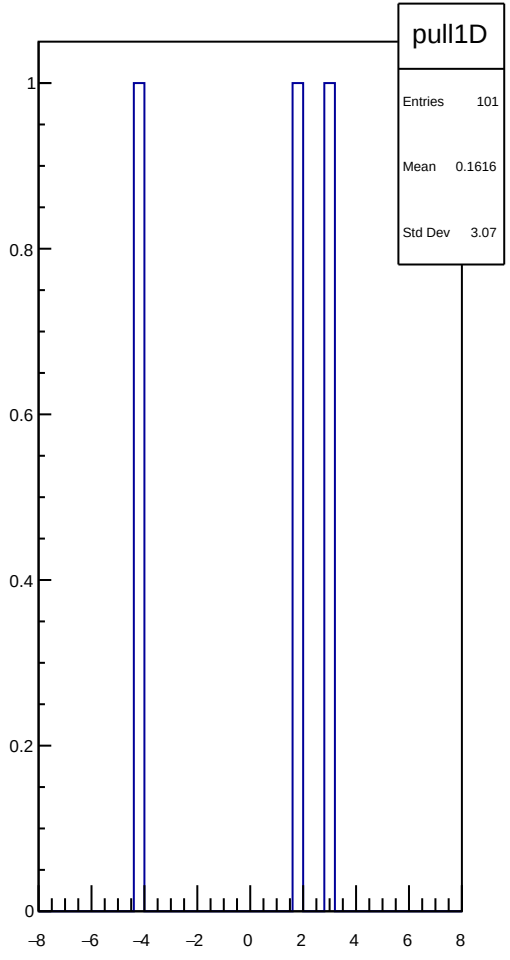

yield_bpm0i02X_rms vs run
χ² / ndf 3.958e+04 / 100
p0 0.007721 ± 5.619e−06
0.016
0.014
0.012
0.01
0.008
0.006

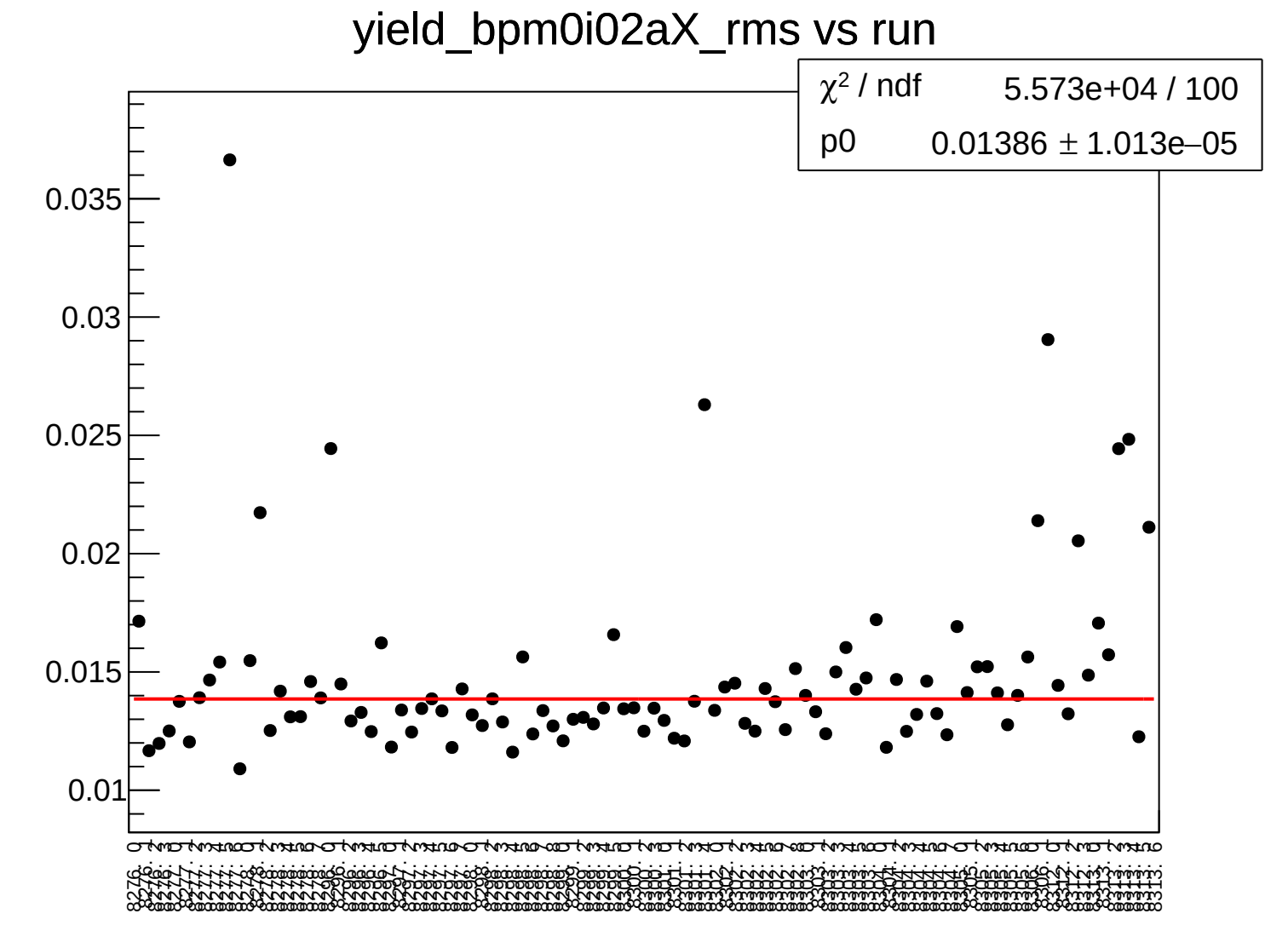

yield_bpm0i02Y_mean vs run
χ² / ndf 4.739e+06 / 100
p0 −3.781 ± 1.362e−05
−3.7
−3.72
−3.74
−3.76
−3.78
−3.8
−3.82
−3.84
pull
Entries 101
Mean −1.496e+04
Std Dev 0
600
400
200
0
−200
−400

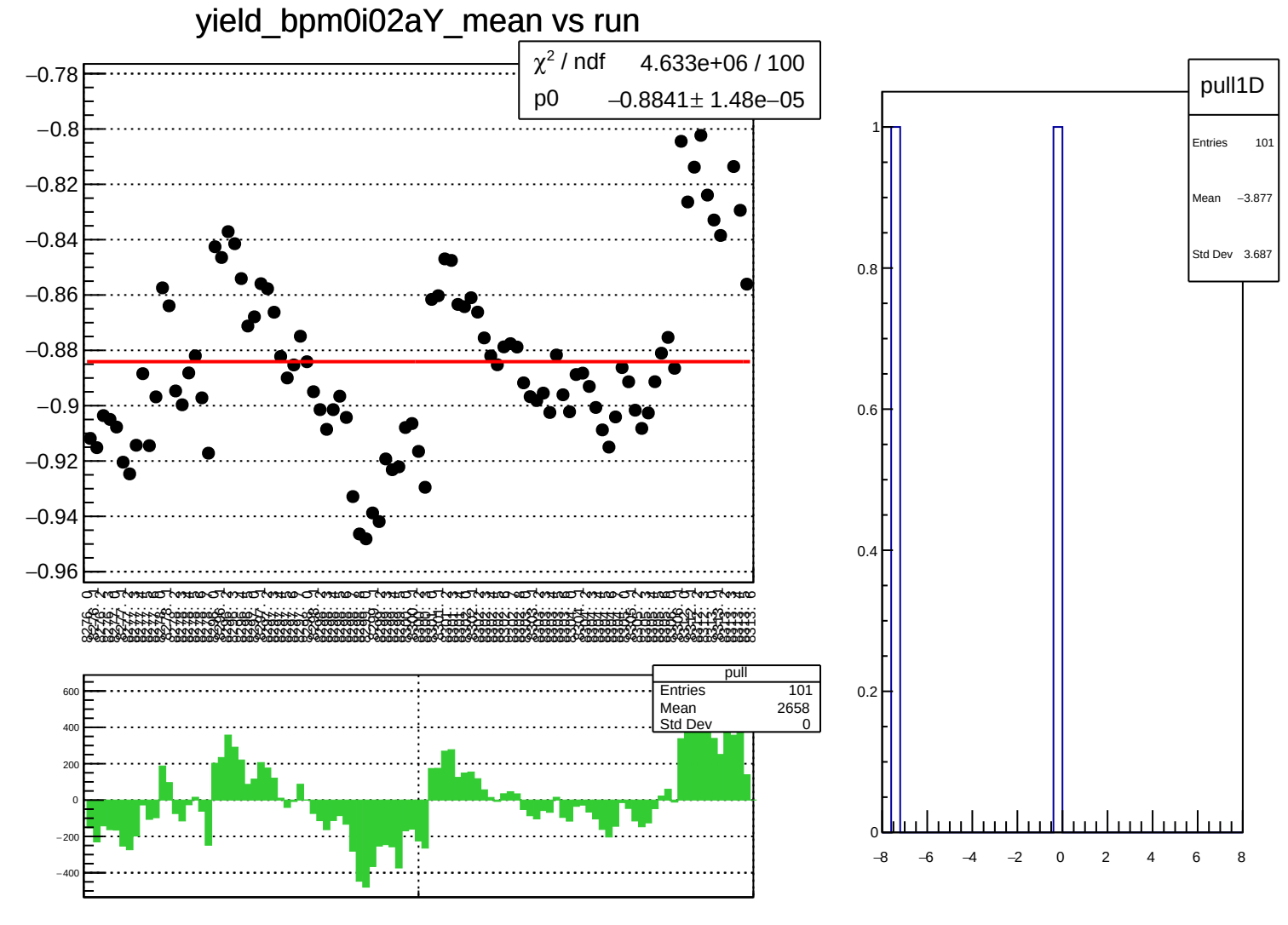

pull1D
Entries 101
Mean 1.942
Std Dev 1.491
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

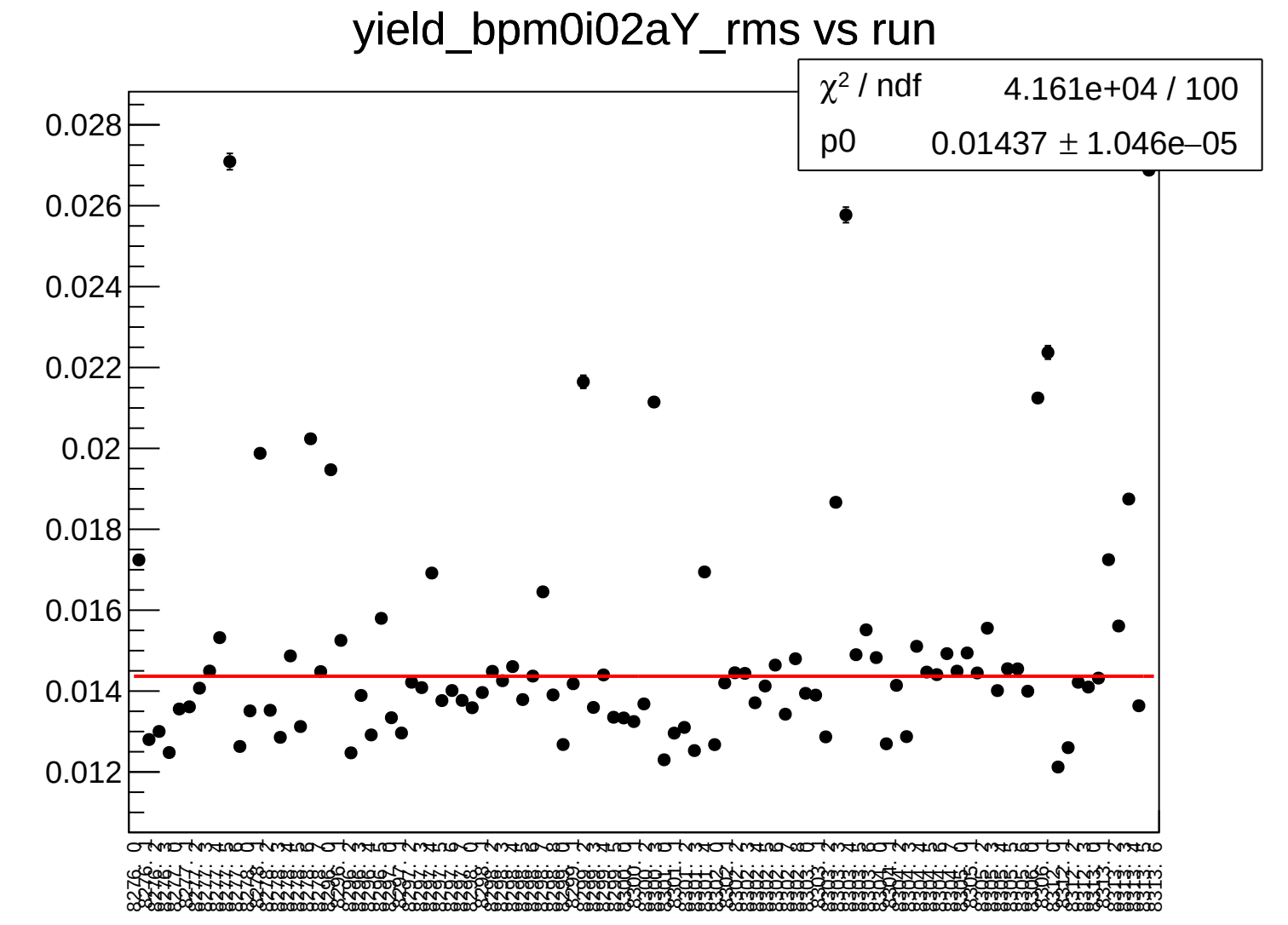

yield_bpm0i02Y_rms vs run
χ² / ndf 3.128e+04 / 100
p0 0.01326 ± 9.629e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

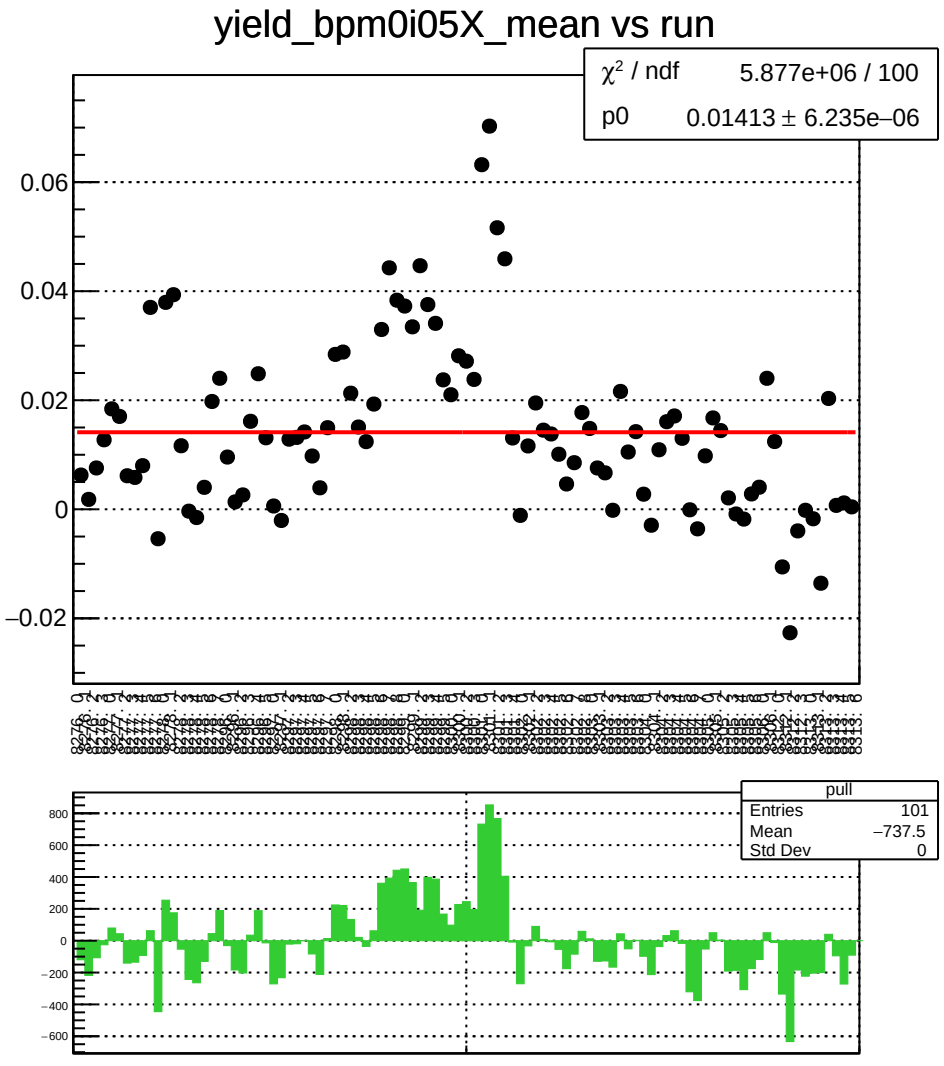

yield_bpm0i02aX_mean vs run
χ² / ndf 3.588e+06 / 100
p0 0.8714 ± 1.432e−05
0.92
0.9
0.88
0.86
0.84
0.82
0.8
0.78
pull
Entries 101
Mean −1083
Std Dev 0
400
200
0
−200
−400
−600

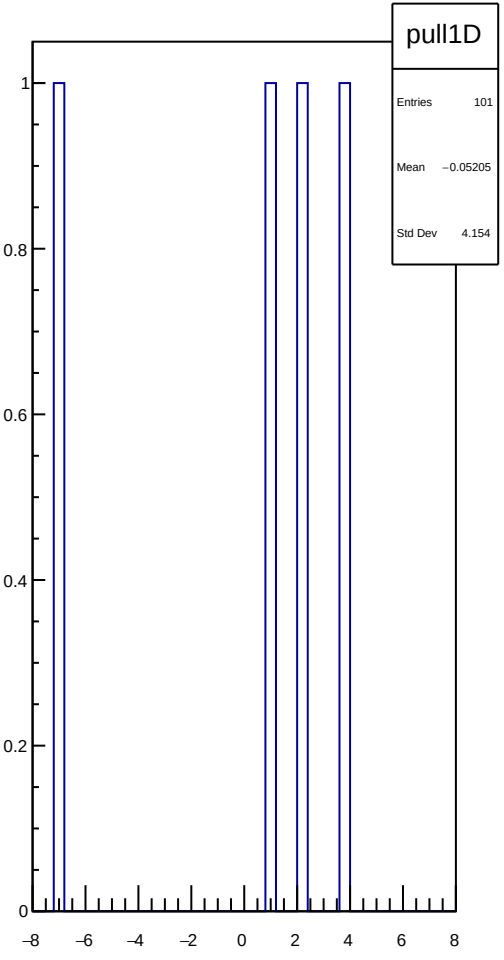

pull1D
Entries 101
Mean 0.1616
Std Dev 3.07
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

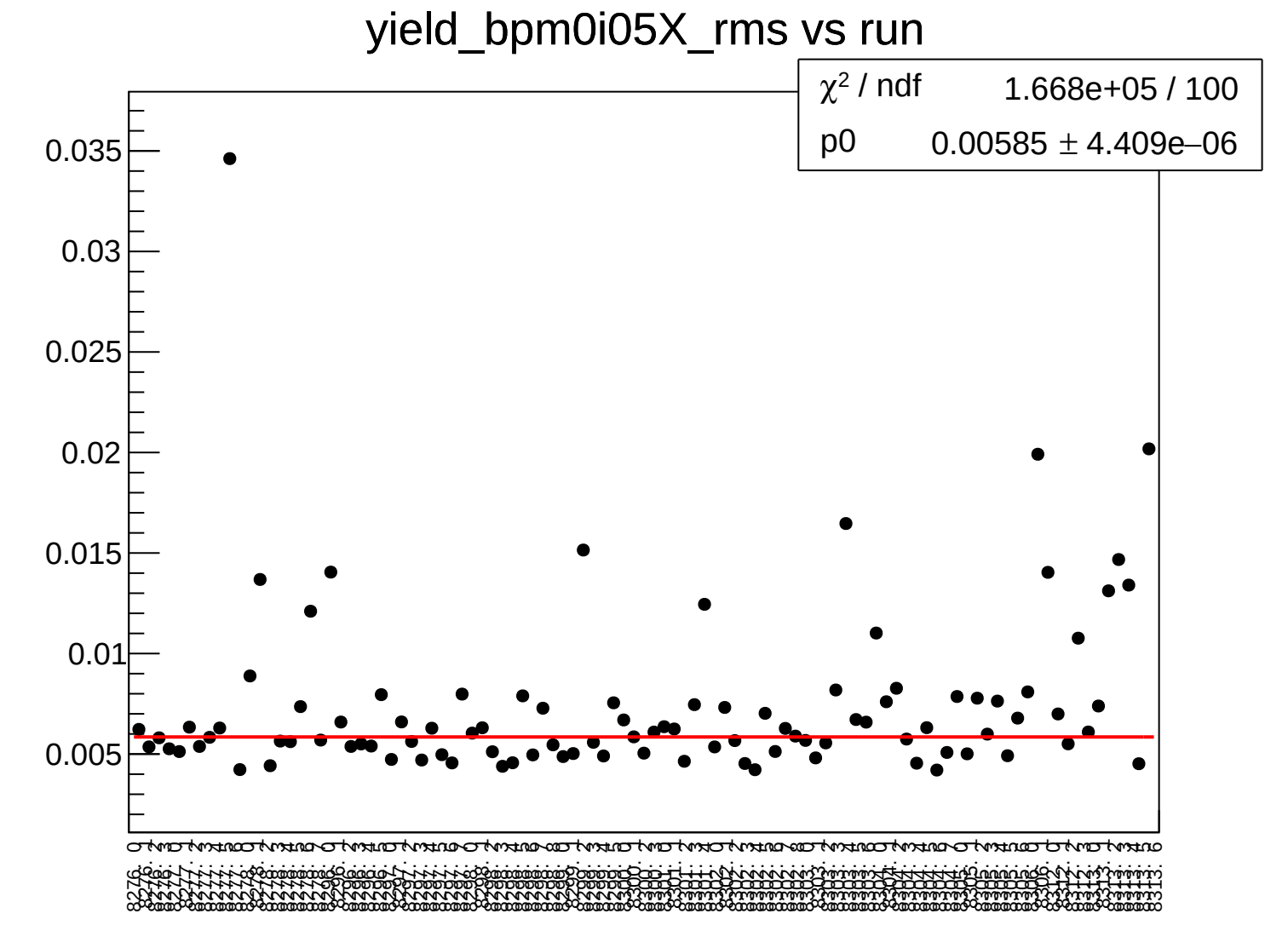

yield_bpm0i02aX_rms vs run
χ² / ndf 5.573e+04 / 100
p0 0.01386 ± 1.013e−05
0.035
0.03
0.025
0.02
0.015
0.01

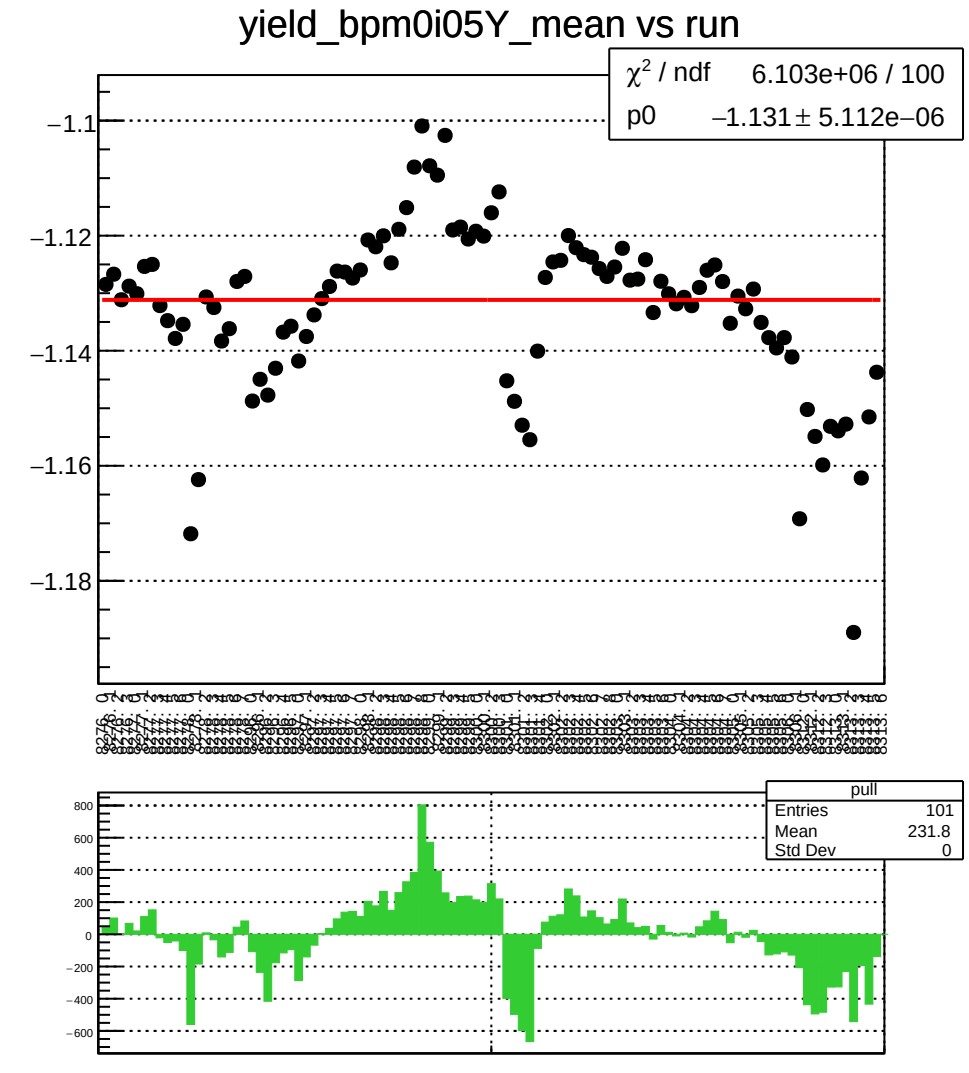

yield_bpm0i02aY_mean vs run
χ² / ndf 4.633e+06 / 100
p0 −0.8841± 1.48e−05
−0.78
−0.8
−0.82
−0.84
−0.86
−0.88
−0.9
−0.92
−0.94
−0.96
pull
Entries 101
Mean 2658
Std Dev 0
600
400
200
0
−200
−400
pull1D
Entries 101
Mean −3.877
Std Dev 3.687
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

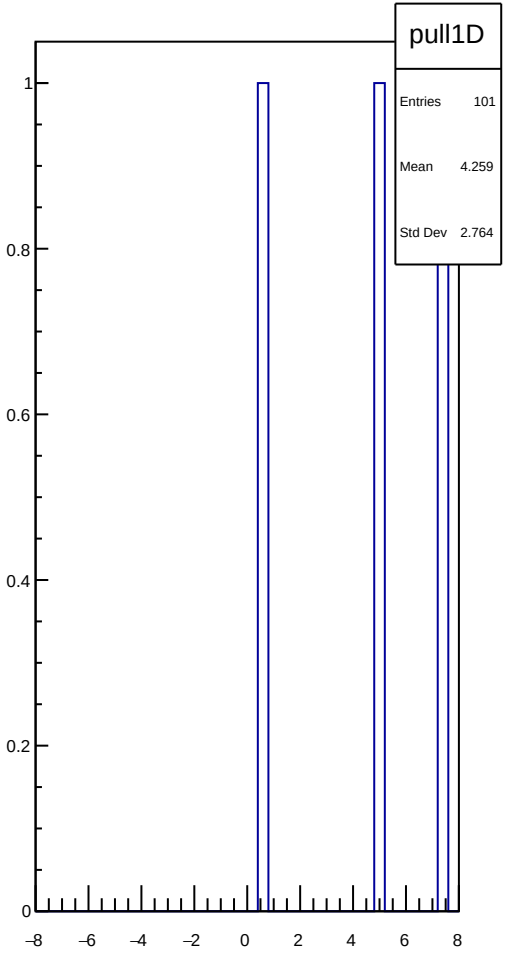

yield_bpm0i02aY_rms vs run
χ² / ndf 4.161e+04 / 100
p0 0.01437 ± 1.046e−05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012

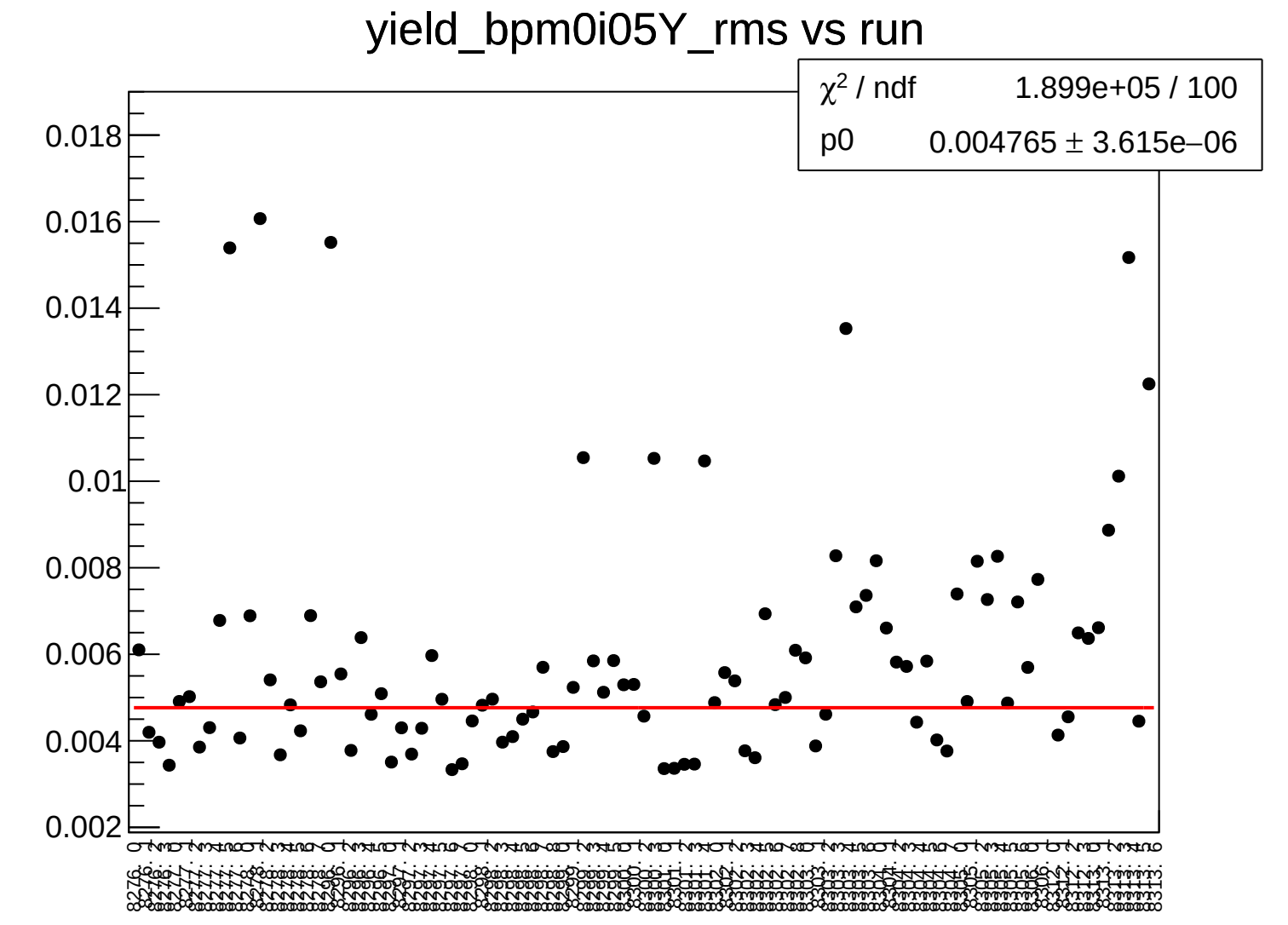

yield_bpm0i05X_mean vs run
χ² / ndf 5.877e+06 / 100
p0 0.01413 ± 6.235e−06
0.06
0.04
0.02
0
−0.02
pull
Entries 101
Mean −737.5
Std Dev 0
800
600
400
200
0
−200
−400
−600

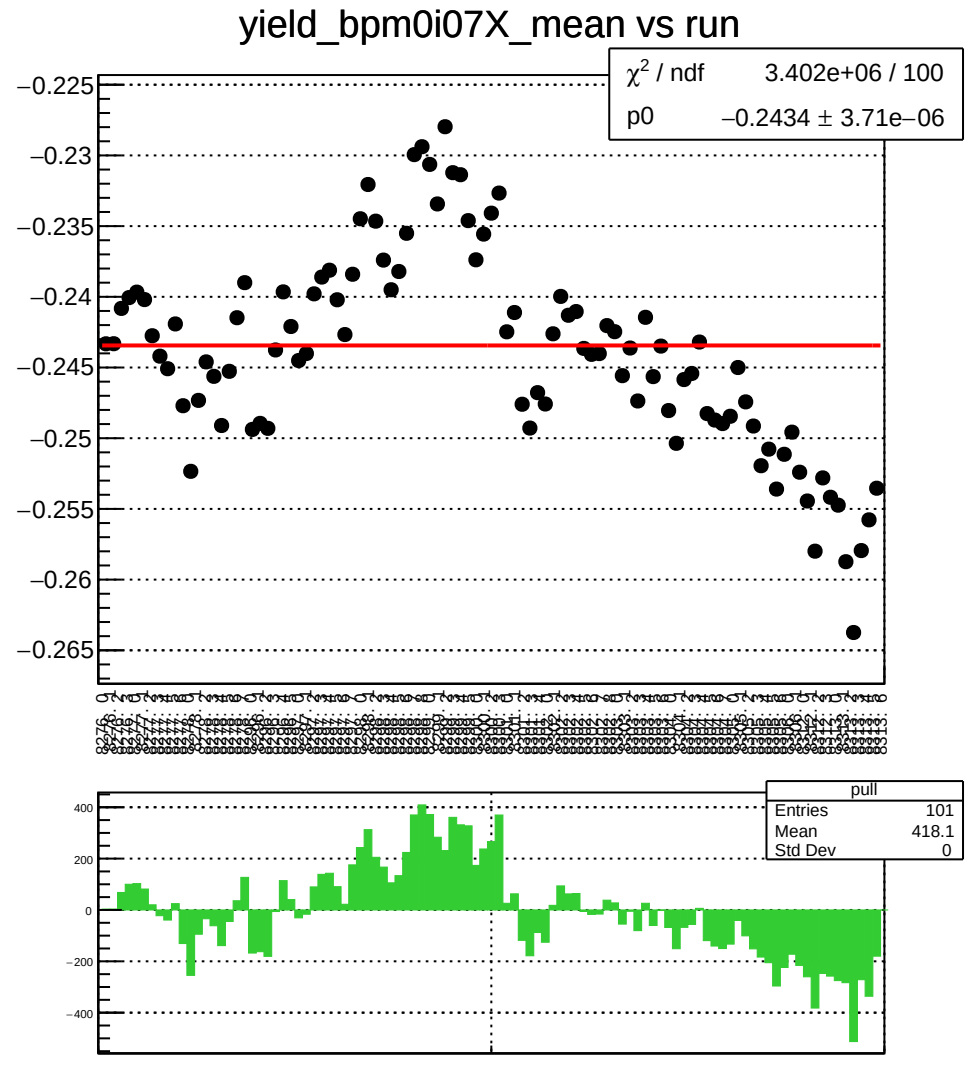

pull1D
Entries 101
Mean −0.05205
Std Dev 4.154
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

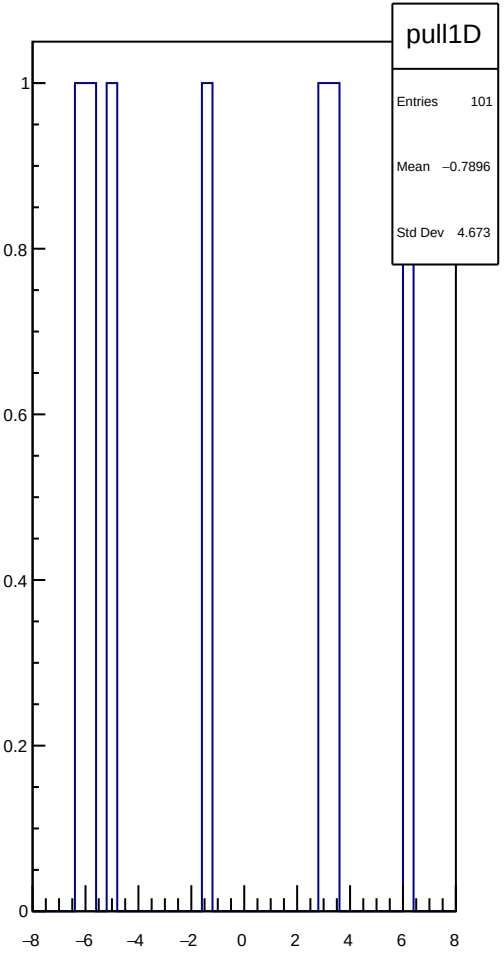

yield_bpm0i05X_rms vs run
χ² / ndf 1.668e+05 / 100
p0 0.00585 ± 4.409e–06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

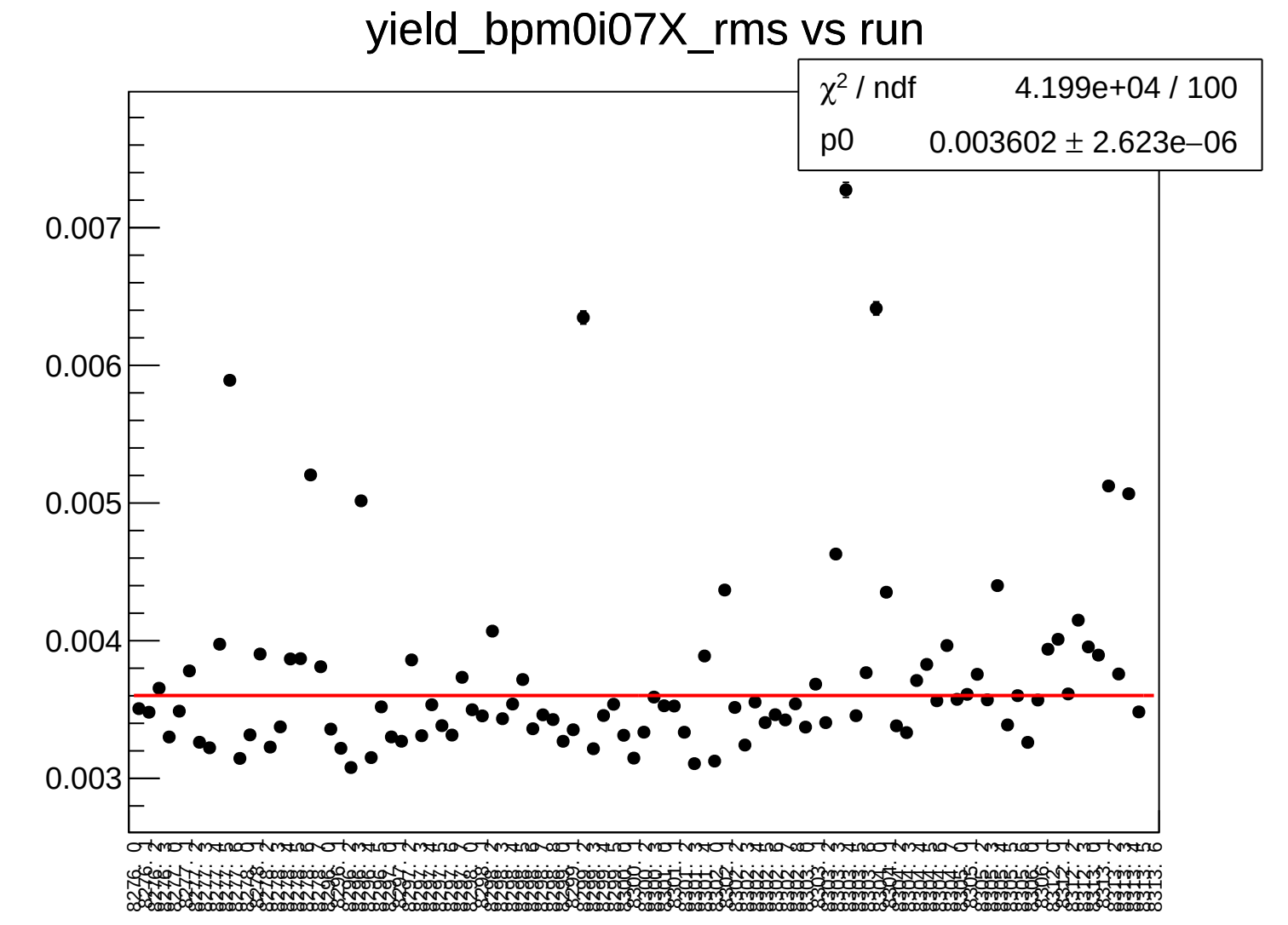

yield_bpm0i05Y_mean vs run
χ² / ndf 6.103e+06 / 100
p0 −1.131 ± 5.112e−06
−1.1
−1.12
−1.14
−1.16
−1.18
pull
Entries 101
Mean 231.8
Std Dev 0
800
600
400
200
0
−200
−400
−600

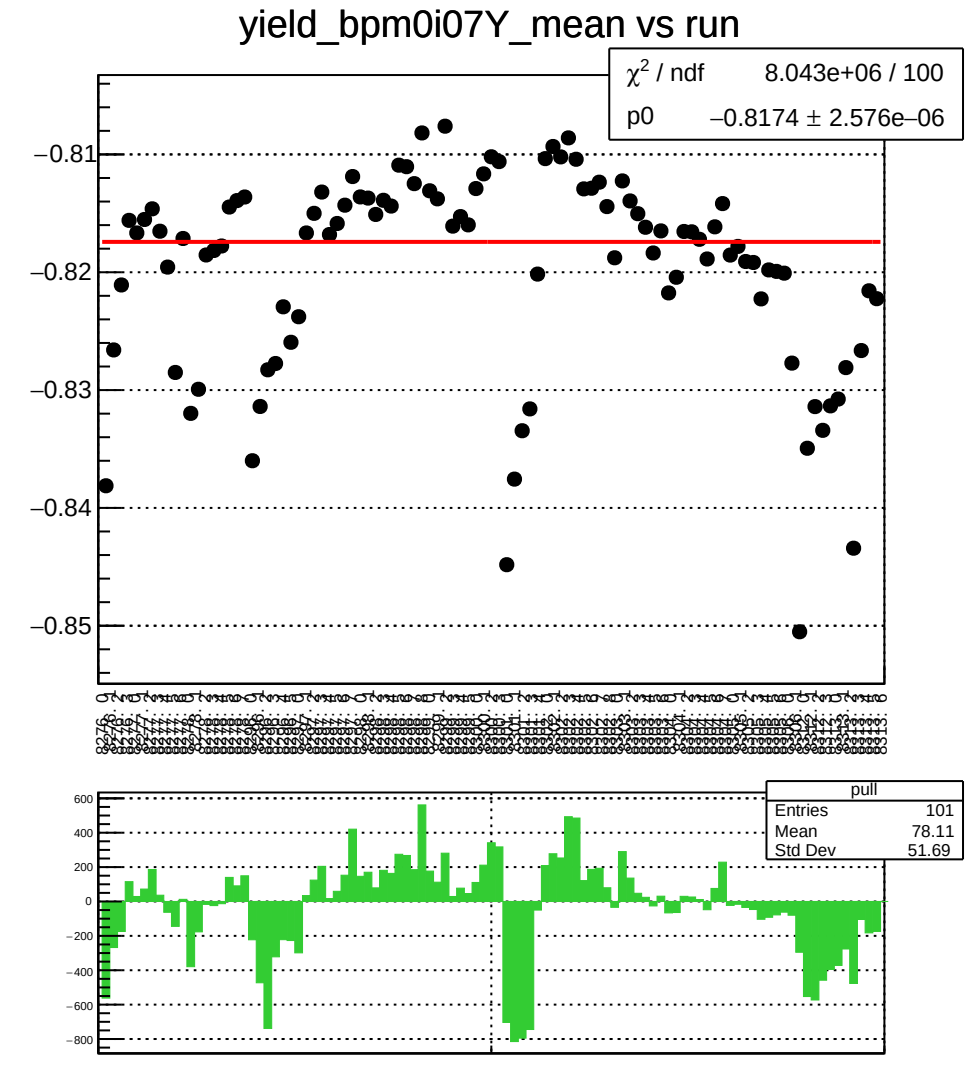

pull1D
Entries 101
Mean 4.259
Std Dev 2.764
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

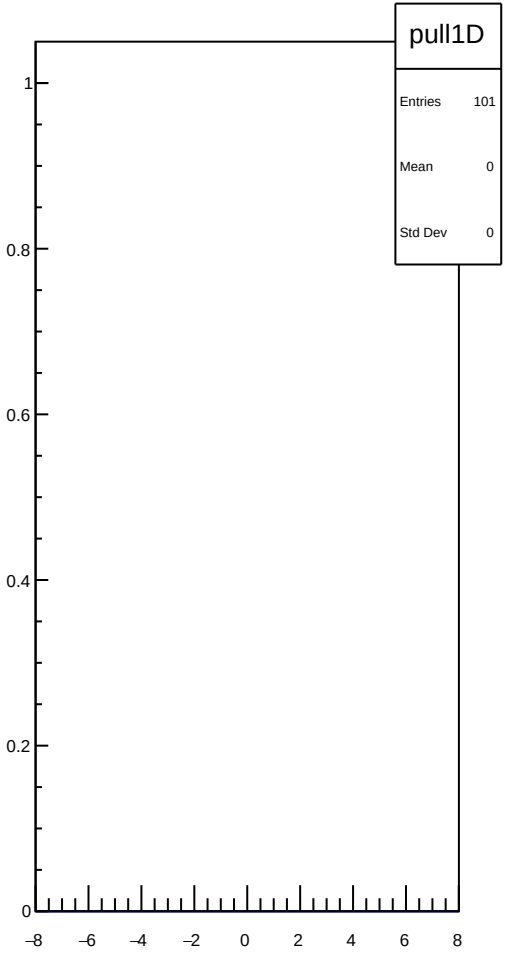

yield_bpm0i05Y_rms vs run
χ² / ndf 1.899e+05 / 100
p0 0.004765 ± 3.615e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

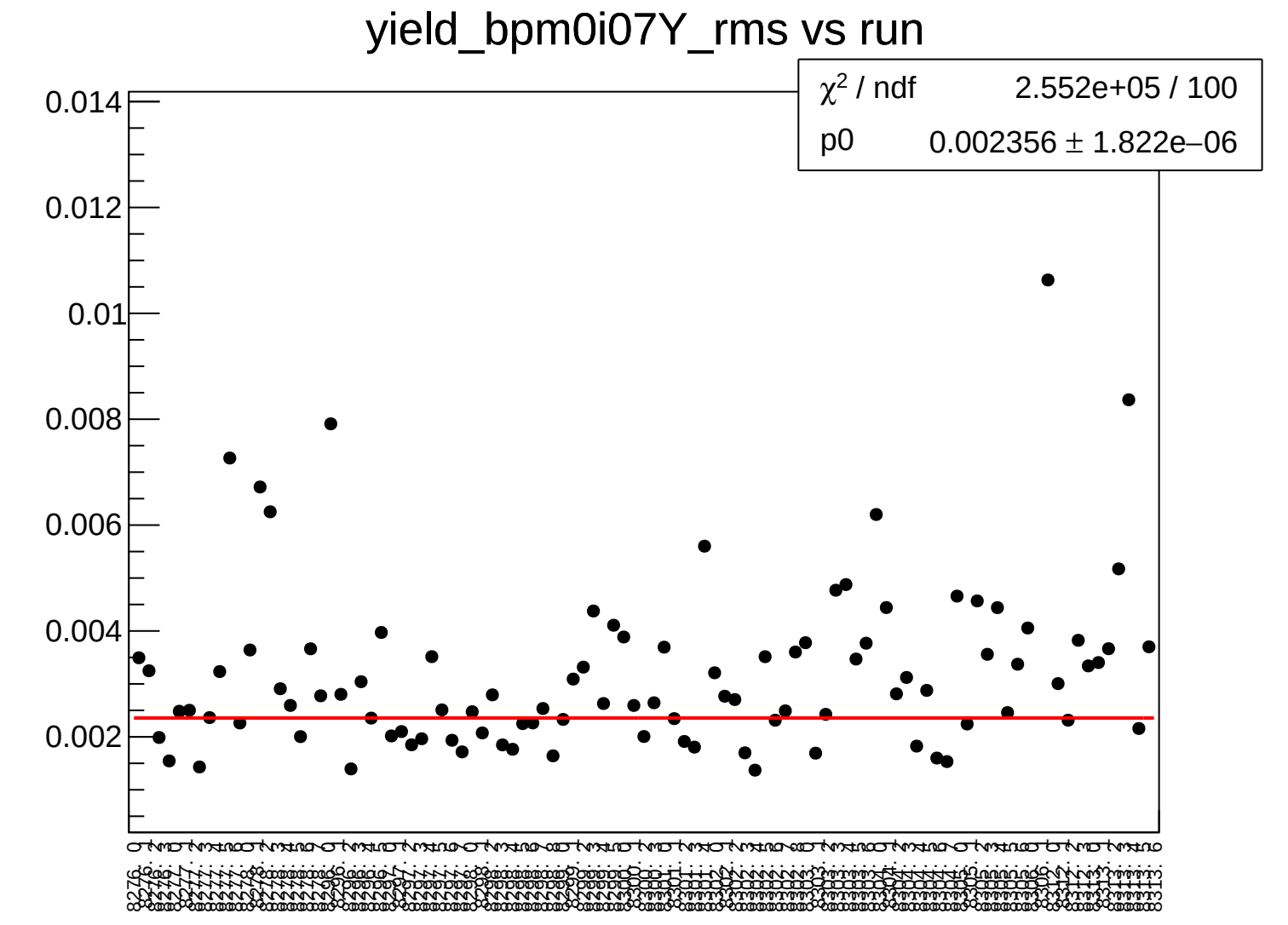

yield_bpm0i07X_mean vs run
χ² / ndf 3.402e+06 / 100
p0 −0.2434 ± 3.71e−06
−0.225
−0.23
−0.235
−0.24
−0.245
−0.25
−0.255
−0.26
−0.265
pull
Entries 101
Mean 418.1
Std Dev 0
400
200
0
−200
−400

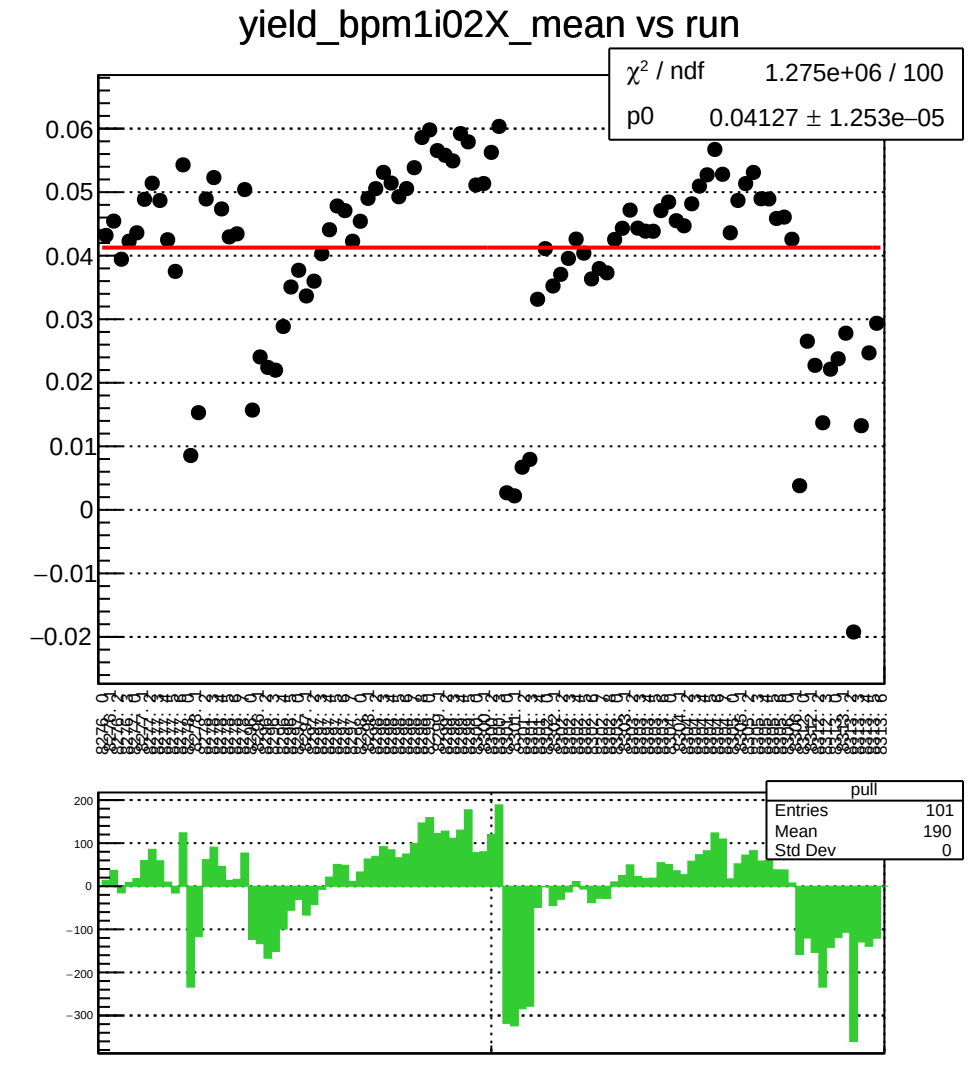

pull1D
Entries 101
Mean −0.7896
Std Dev 4.673
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

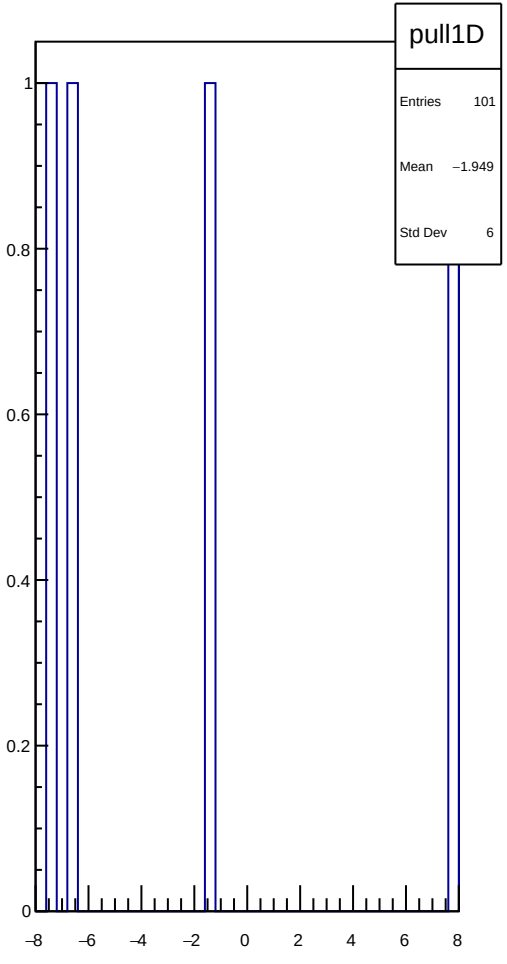

yield_bpm0i07X_rms vs run
χ² / ndf 4.199e+04 / 100
p0 0.003602 ± 2.623e−06
0.007
0.006
0.005
0.004
0.003

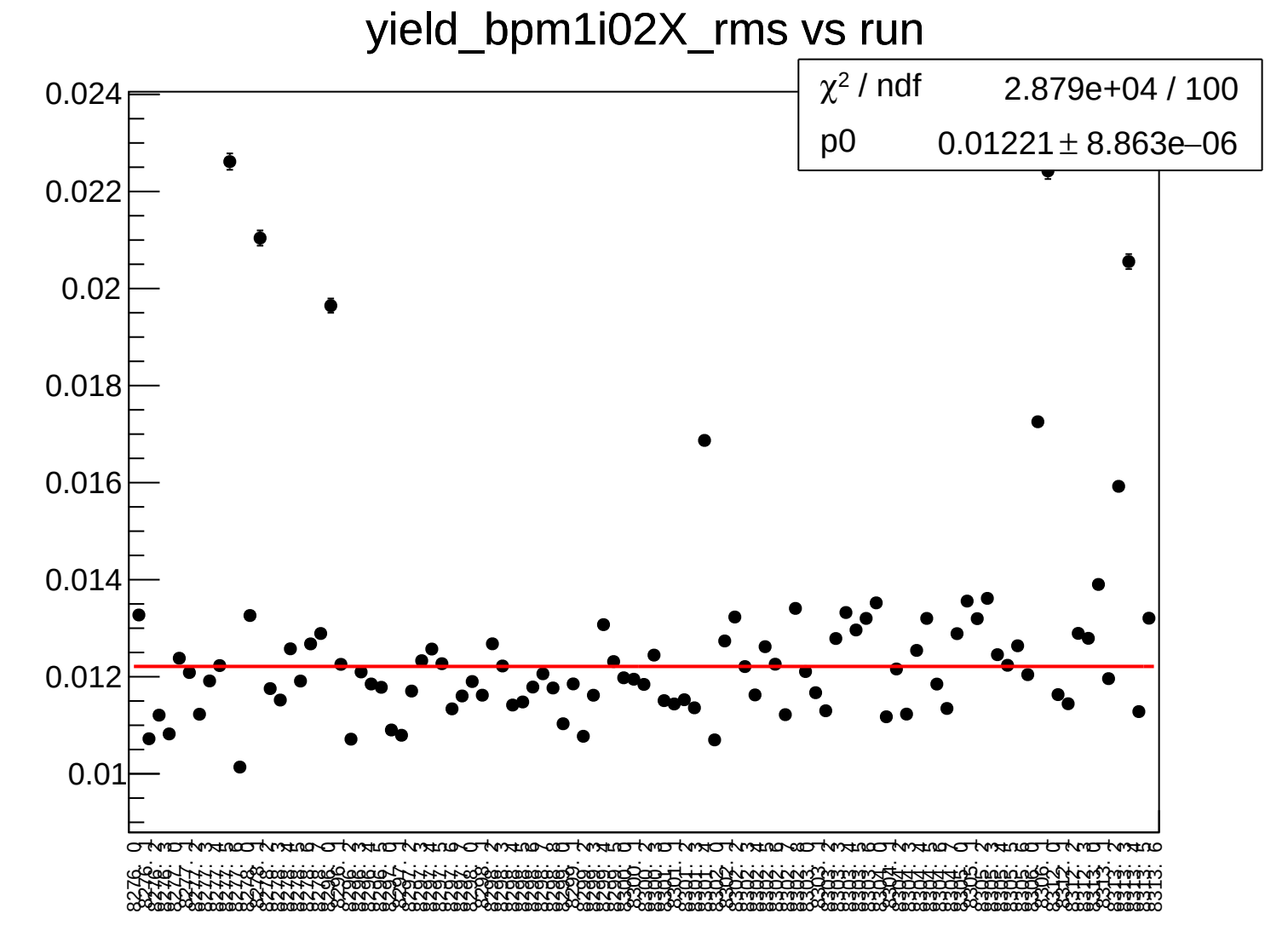

yield_bpm0i07Y_mean vs run
χ² / ndf 8.043e+06 / 100
p0 −0.8174 ± 2.576e−06
−0.81
−0.82
−0.83
−0.84
−0.85
pull
Entries 101
Mean 78.11
Std Dev 51.69
600
400
200
0
−200
−400
−600
−800

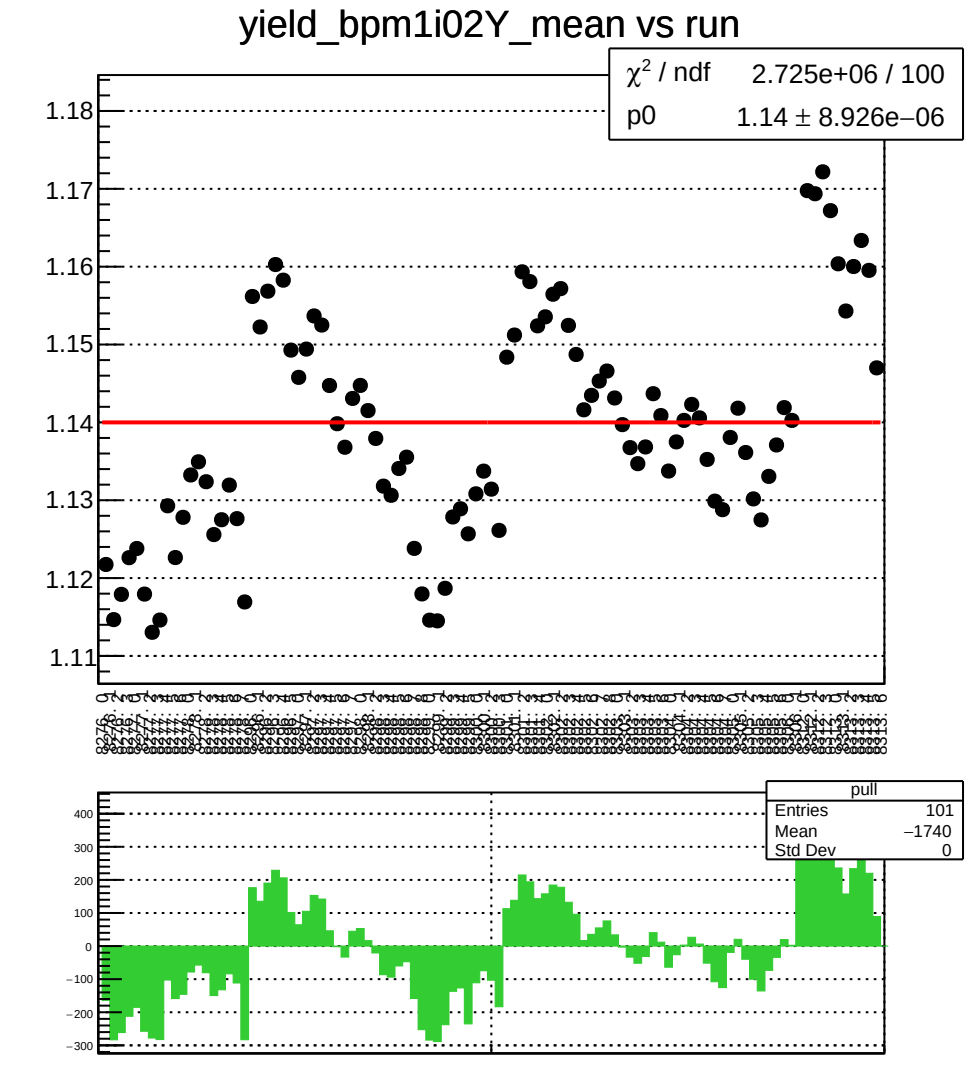

pull1D
Entries 101
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

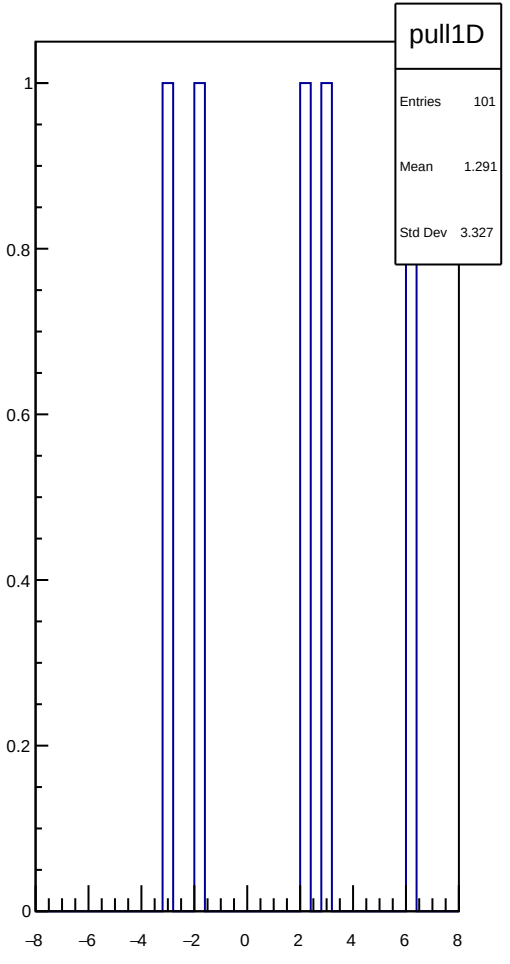

yield_bpm0i07Y_rms vs run
χ² / ndf 2.552e+05 / 100
p0 0.002356 ± 1.822e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002

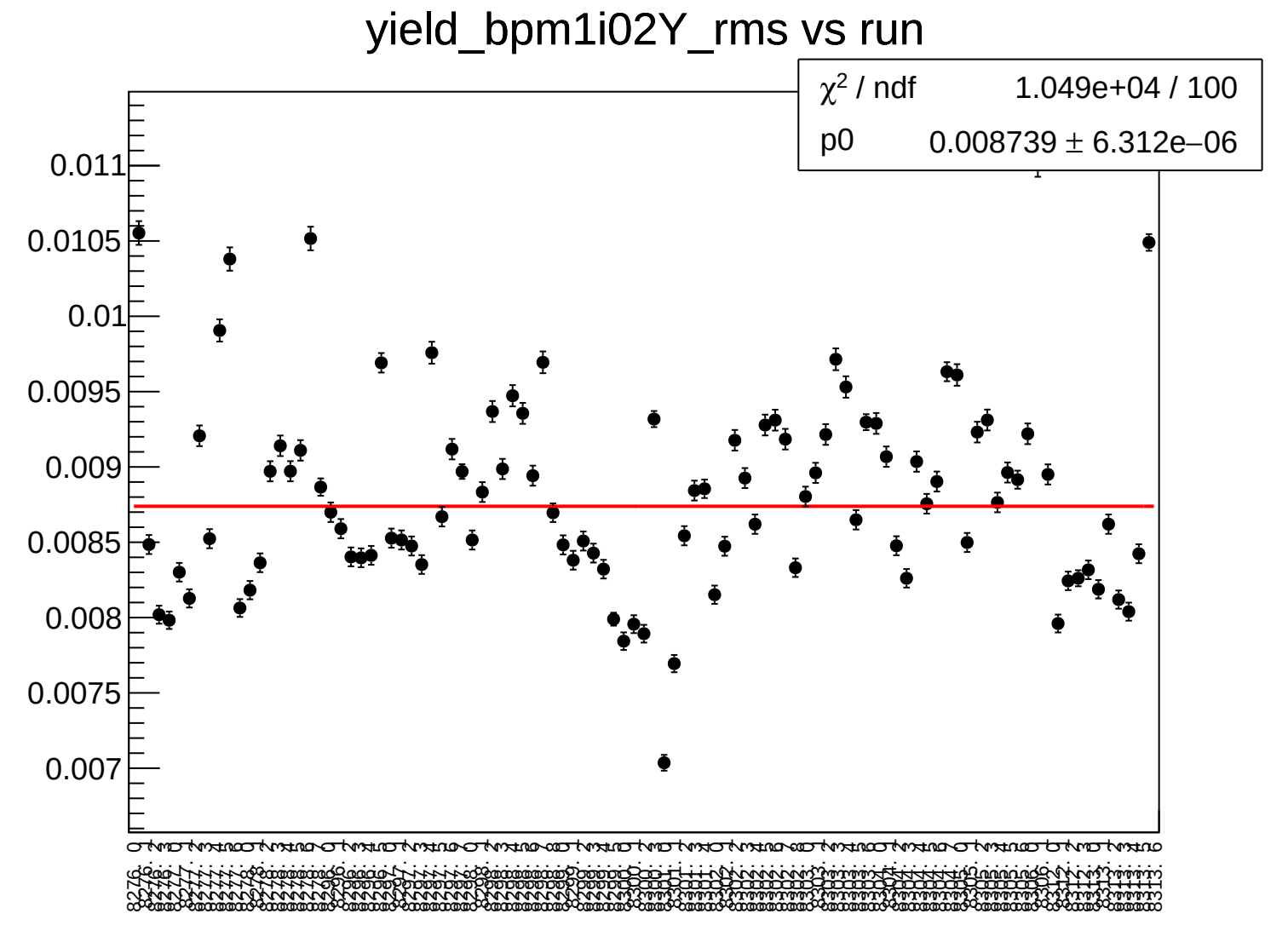

yield_bpm1i02X_mean vs run
χ² / ndf 1.275e+06 / 100
p0 0.04127 ± 1.253e−05
0.06
0.05
0.04
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 101
Mean 190
Std Dev 0
200
100
0
−100
−200
−300

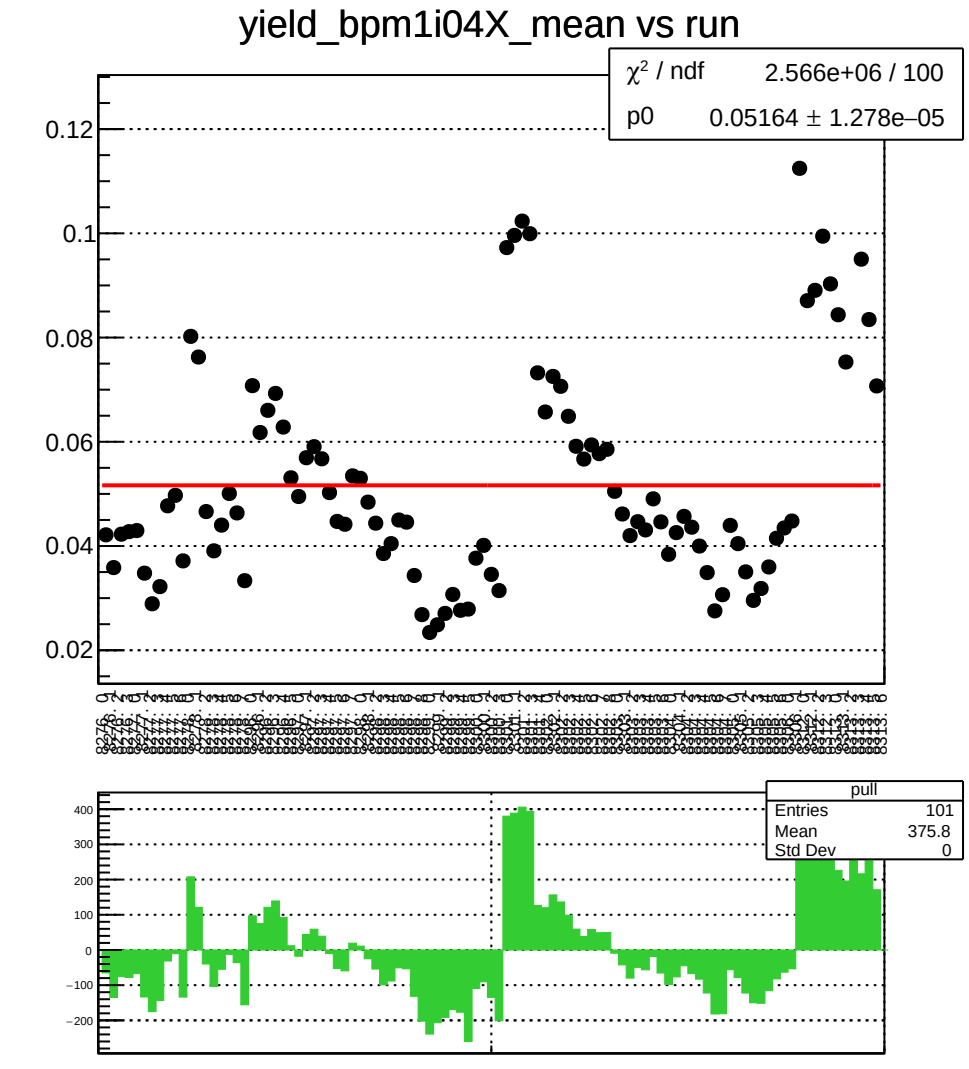

pull1D
Entries 101
Mean −1.949
Std Dev 6
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

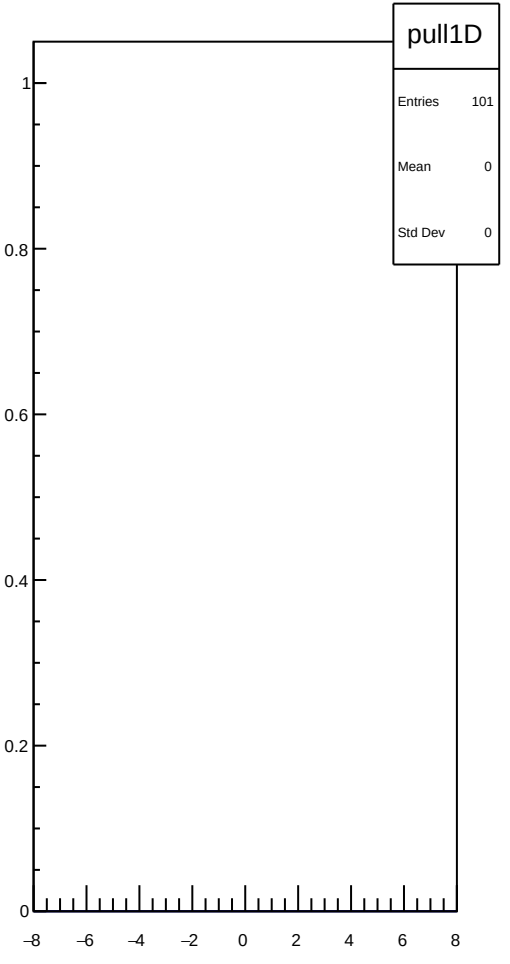

yield_bpm1i02X_rms vs run
χ² / ndf 2.879e+04 / 100
p0 0.01221 ± 8.863e–06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

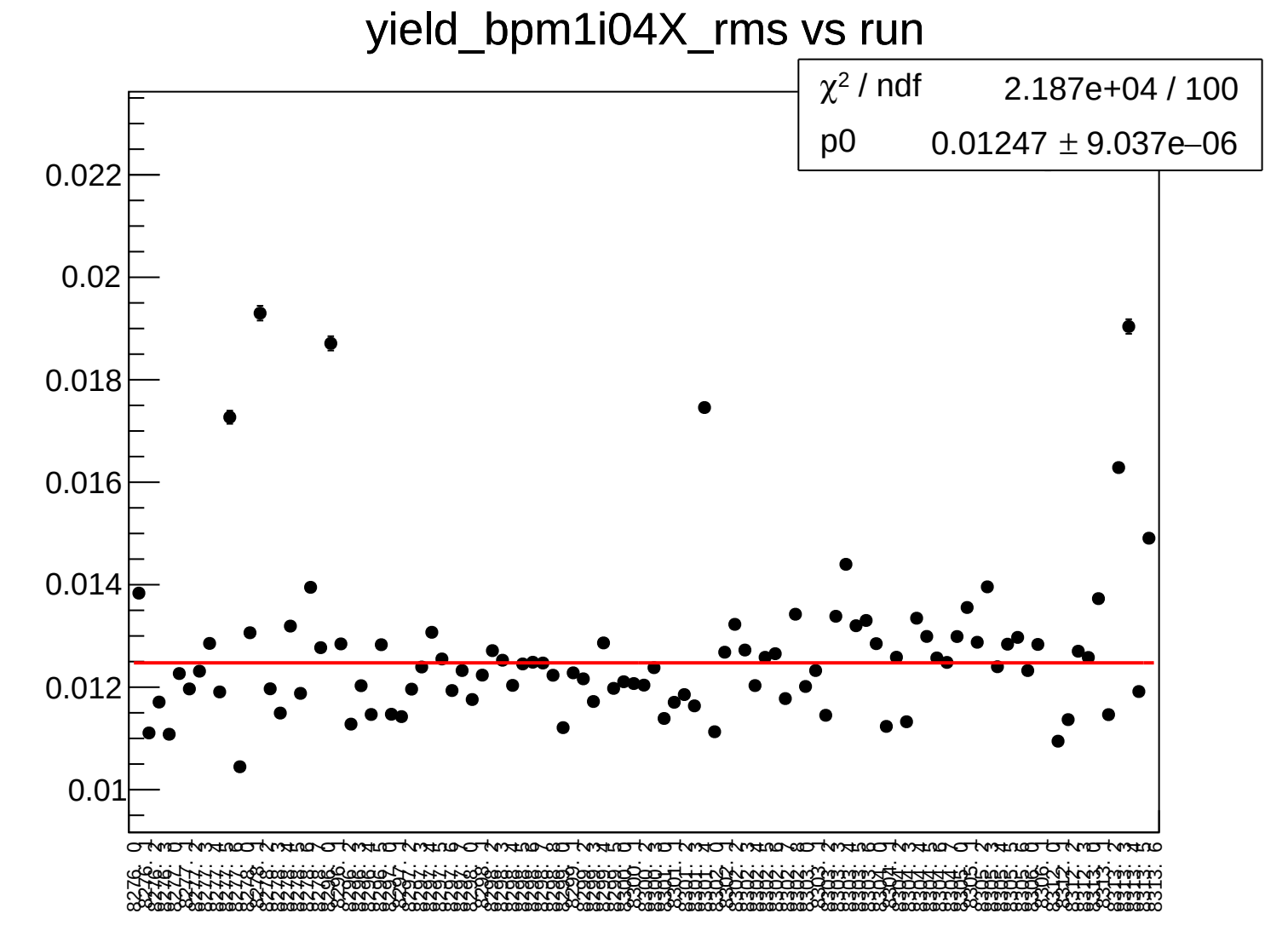

yield_bpm1i02Y_mean vs run
χ² / ndf 2.725e+06 / 100
p0 1.14 ± 8.926e−06
1.18
1.17
1.16
1.15
1.14
1.13
1.12
1.11
pull
Entries 101
Mean −1740
Std Dev 0
400
300
200
100
0
−100
−200
−300

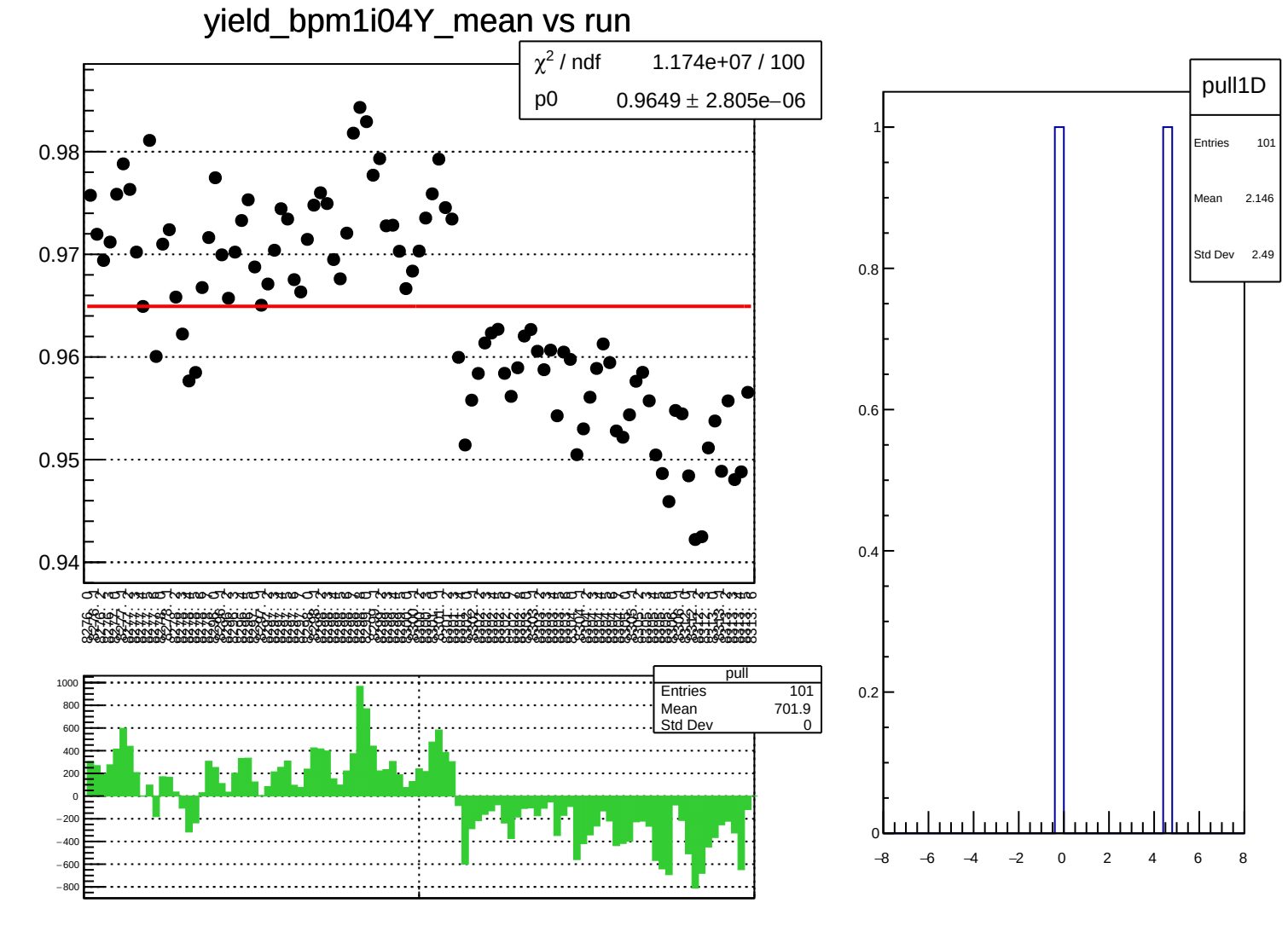

pull1D
Entries 101
Mean 1.291
Std Dev 3.327
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

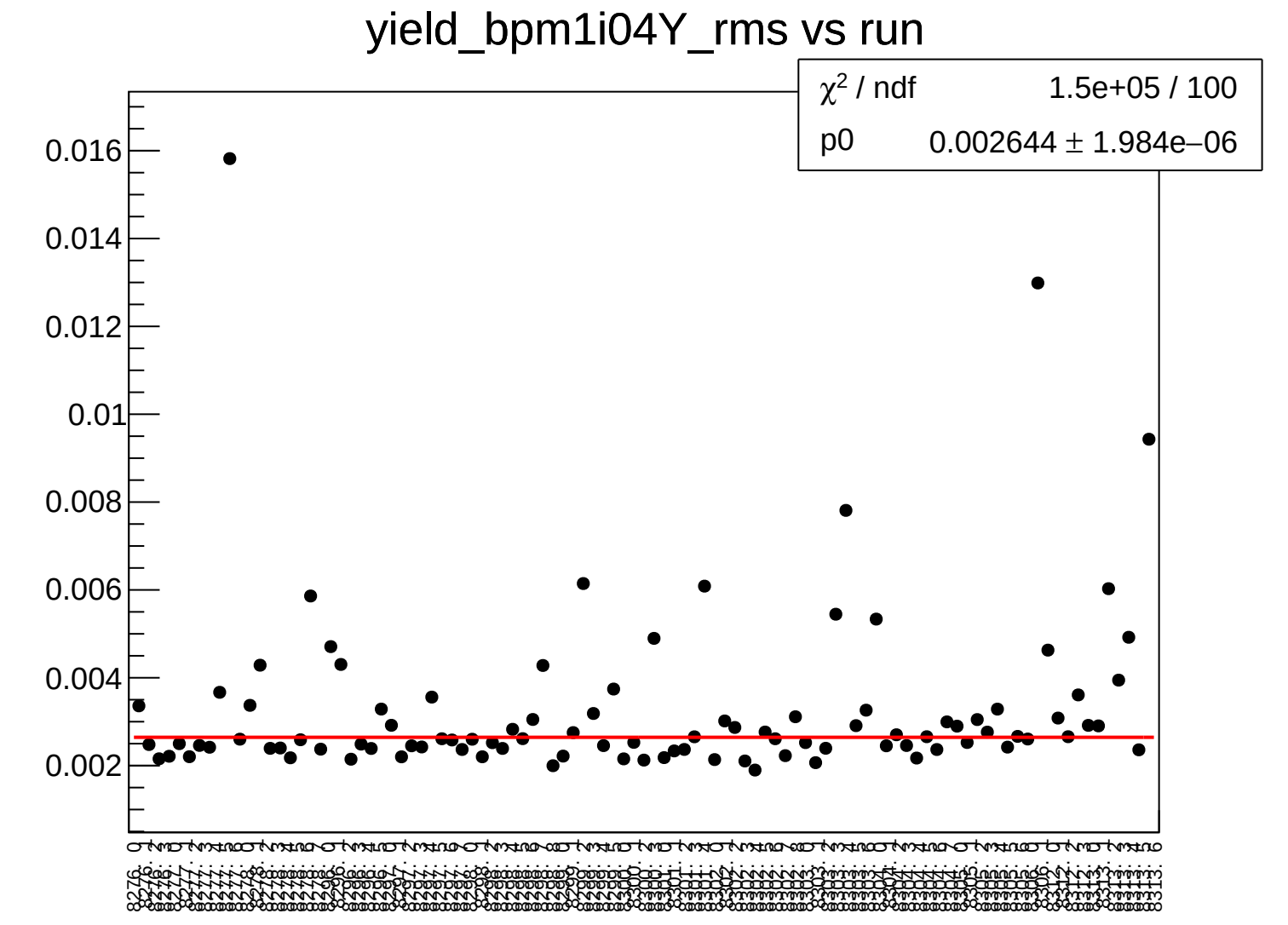

yield_bpm1i02Y_rms vs run
χ² / ndf 1.049e+04 / 100
p0 0.008739 ± 6.312e−06
0.011
0.0105
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007

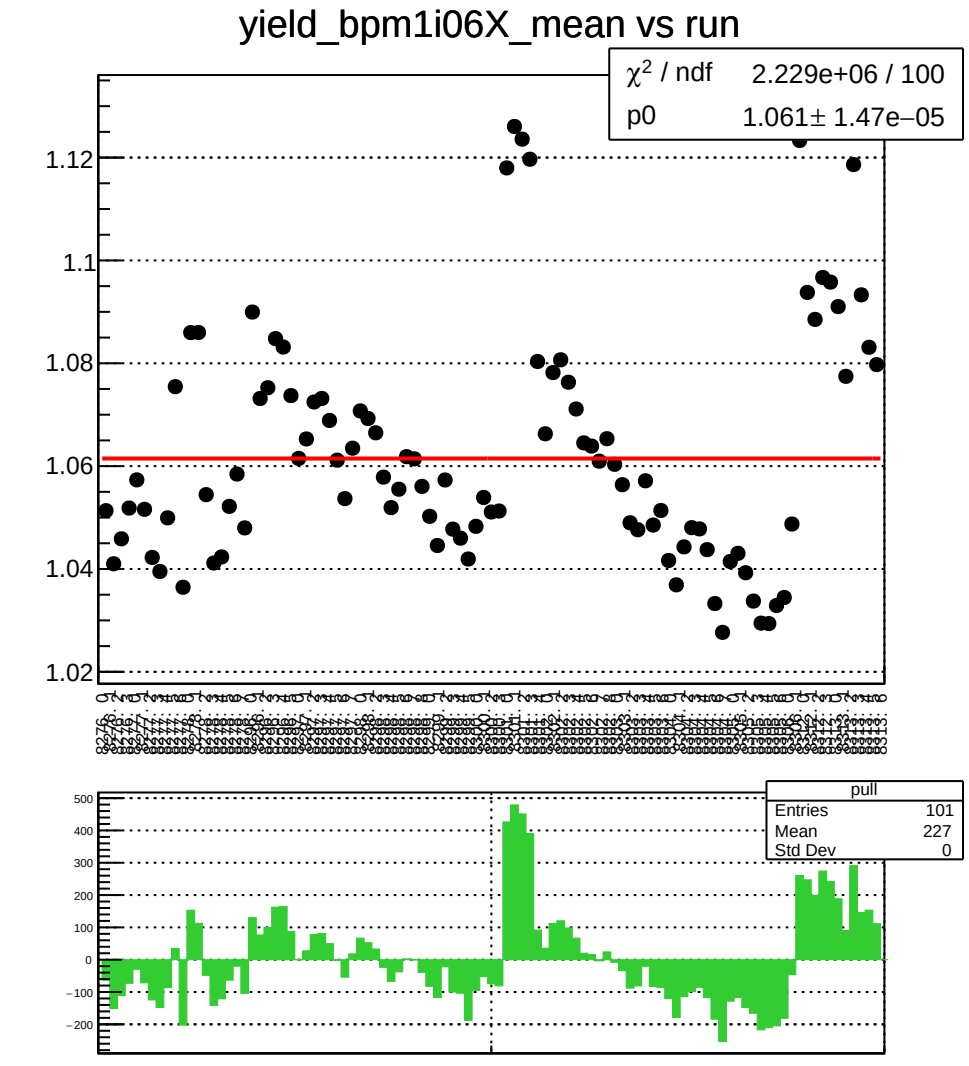

yield_bpm1i04X_mean vs run
χ² / ndf 2.566e+06 / 100
p0 0.05164 ± 1.278e−05
0.12
0.1
0.08
0.06
0.04
0.02
pull
Entries 101
Mean 375.8
Std Dev 0
400
300
200
100
0
−100
−200

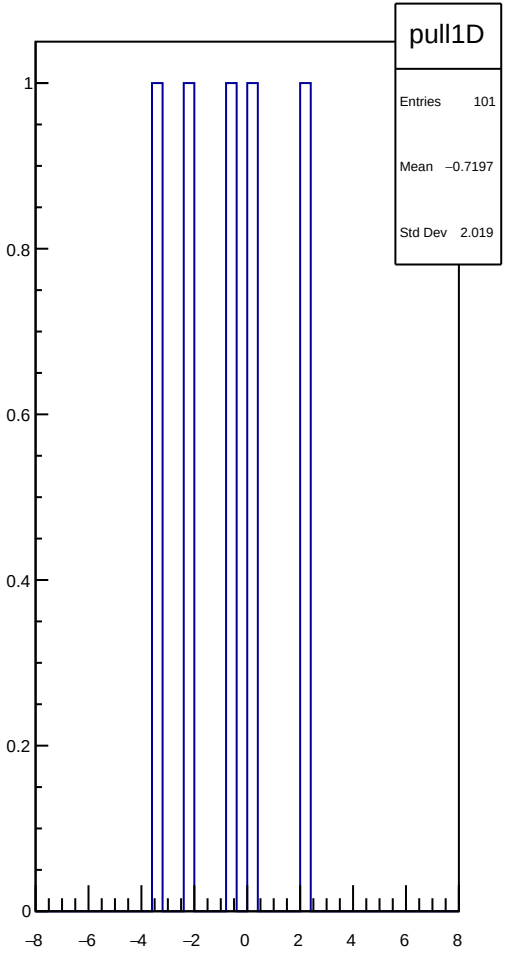

pull1D
Entries 101
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

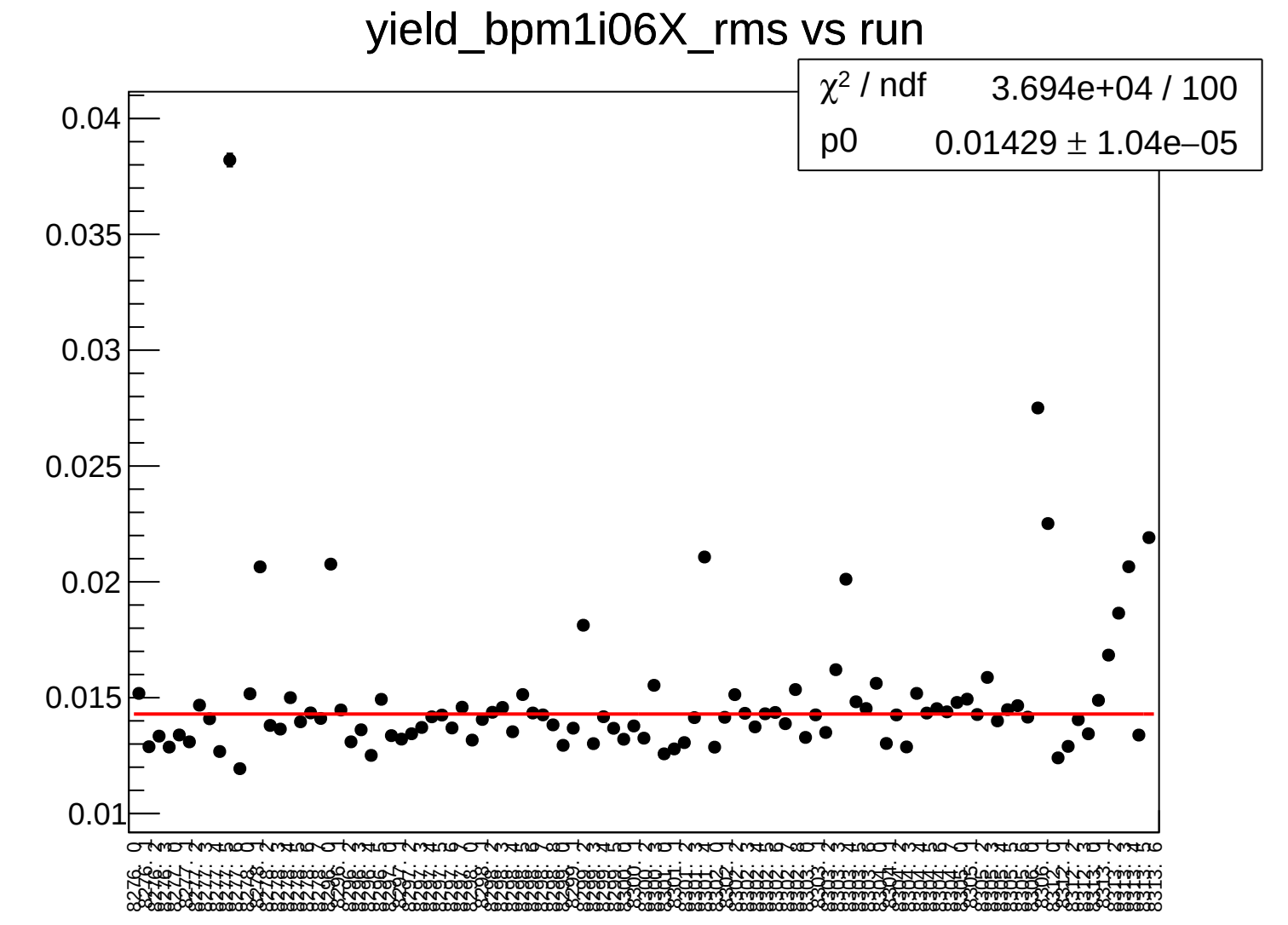

yield_bpm1i04X_rms vs run
χ² / ndf 2.187e+04 / 100
p0 0.01247 ± 9.037e–06
0.022
0.02
0.018
0.016
0.014
0.012
0.01

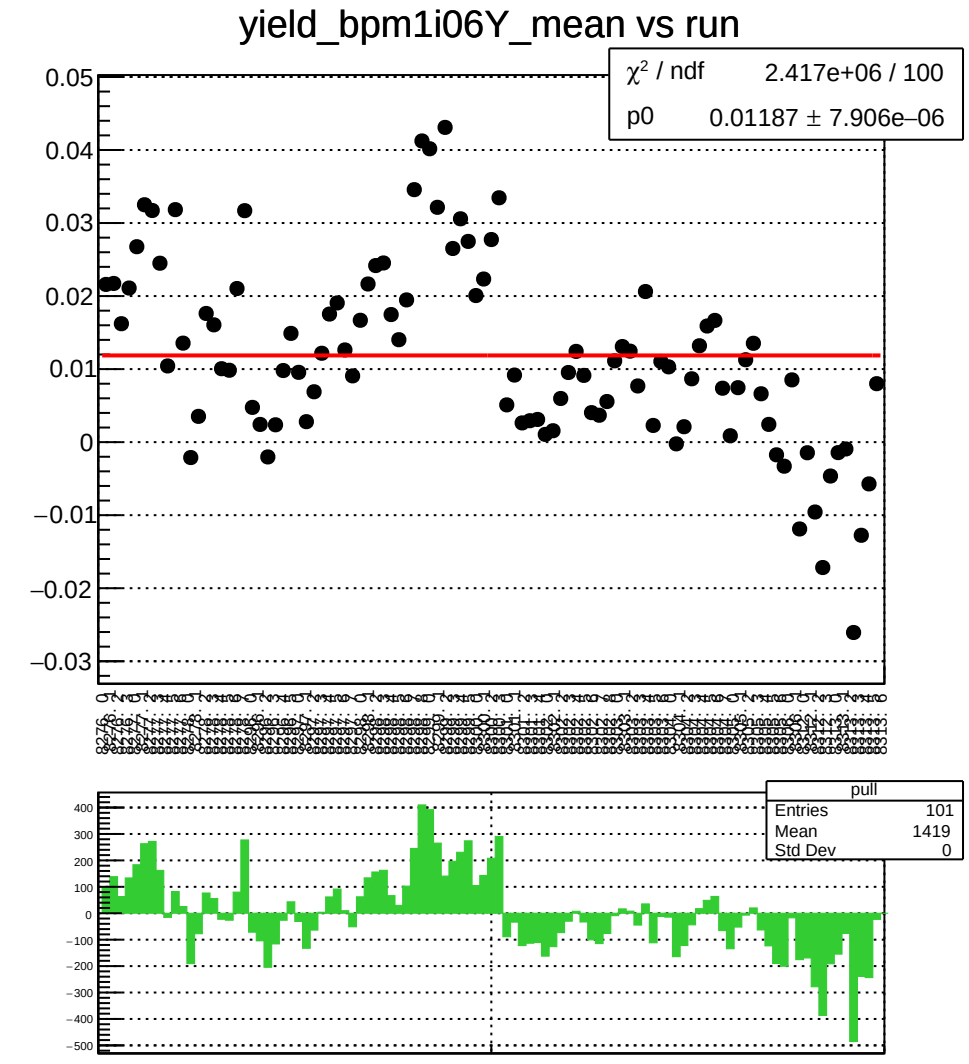

yield_bpm1i04Y_mean vs run
χ² / ndf 1.174e+07 / 100
p0 0.9649 ± 2.805e−06
0.98
0.97
0.96
0.95
0.94
pull
Entries 101
Mean 701.9
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600
−800
pull1D
Entries 101
Mean 2.146
Std Dev 2.49
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

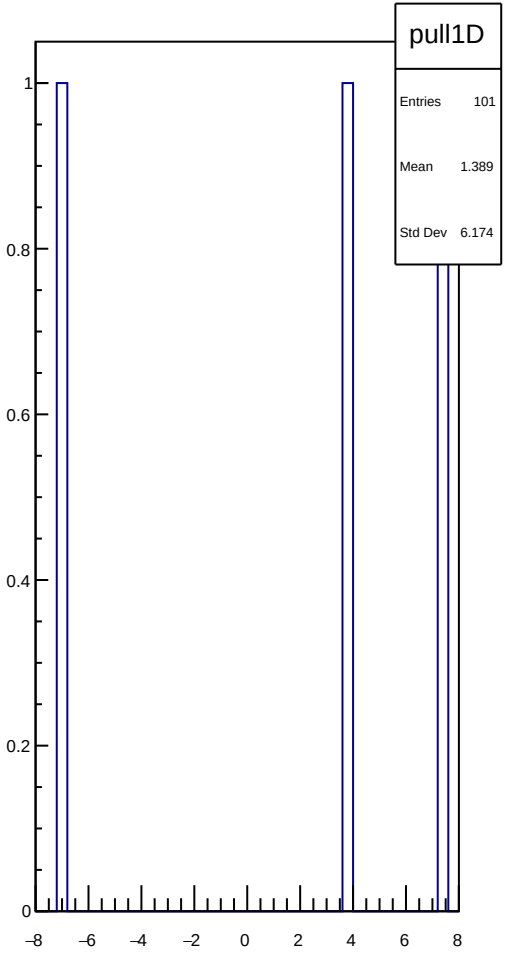

yield_bpm1i04Y_rms vs run
χ² / ndf 1.5e+05 / 100
p0 0.002644 ± 1.984e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

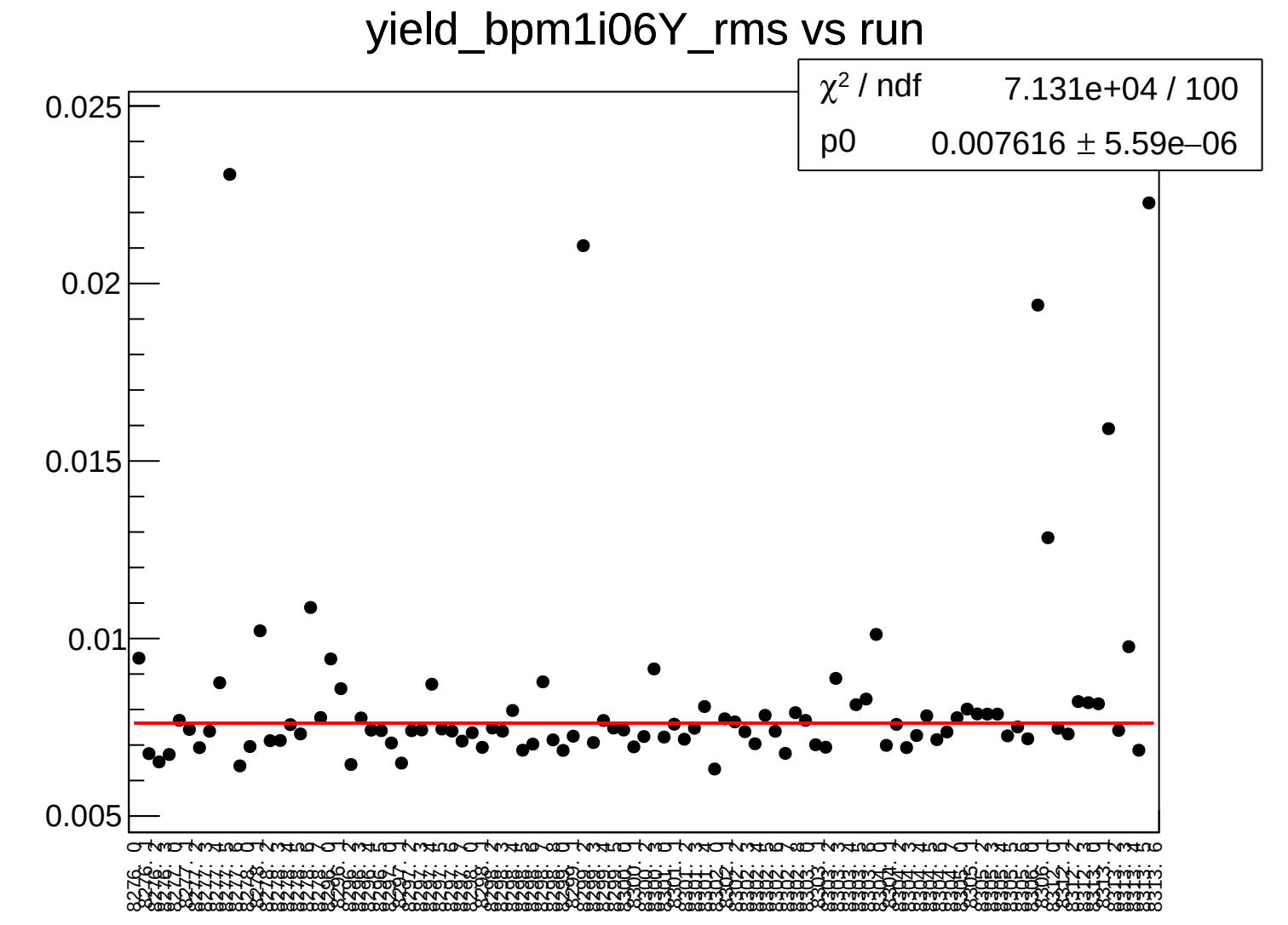

yield_bpm1i06X_mean vs run
χ² / ndf 2.229e+06 / 100
p0 1.061± 1.47e−05
1.12
1.1
1.08
1.06
1.04
1.02
pull
Entries 101
Mean 227
Std Dev 0
500
400
300
200
100
0
−100
−200

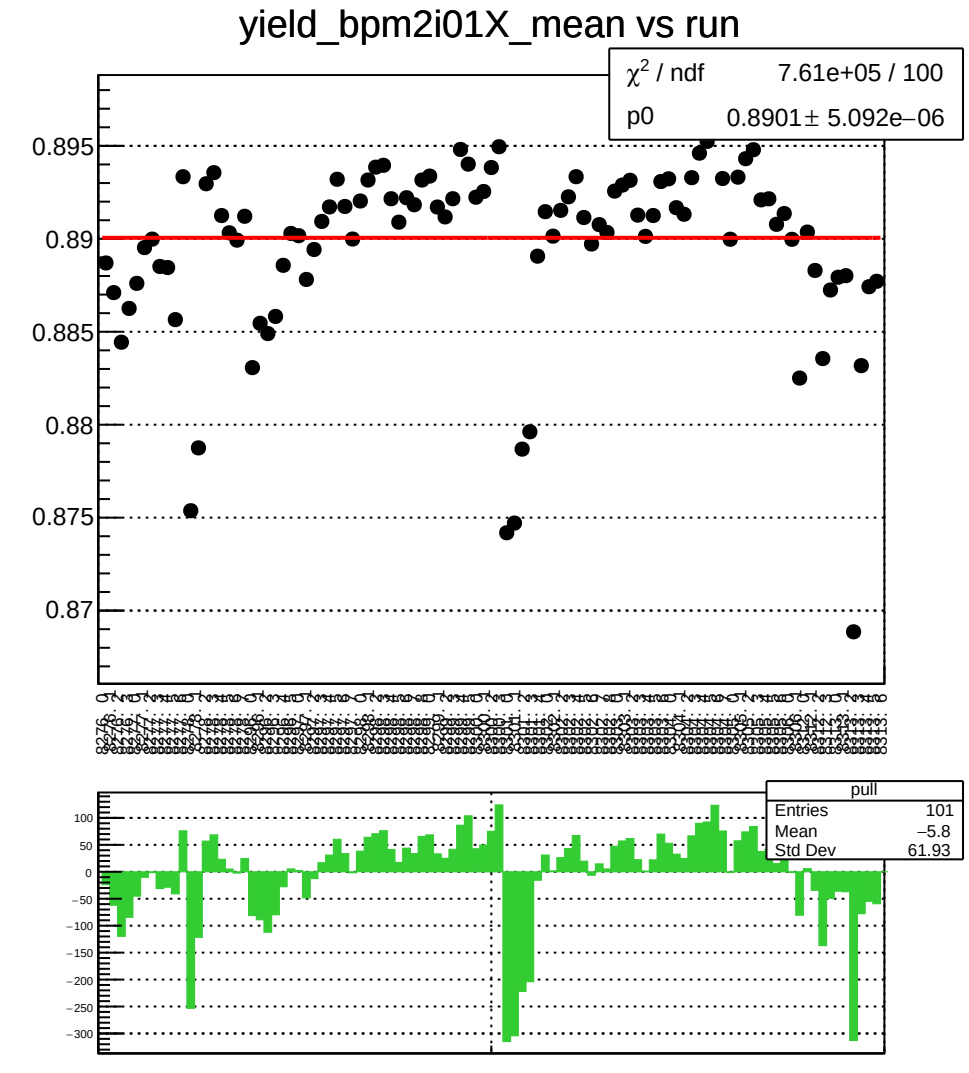

pull1D
Entries 101
Mean −0.7197
Std Dev 2.019
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

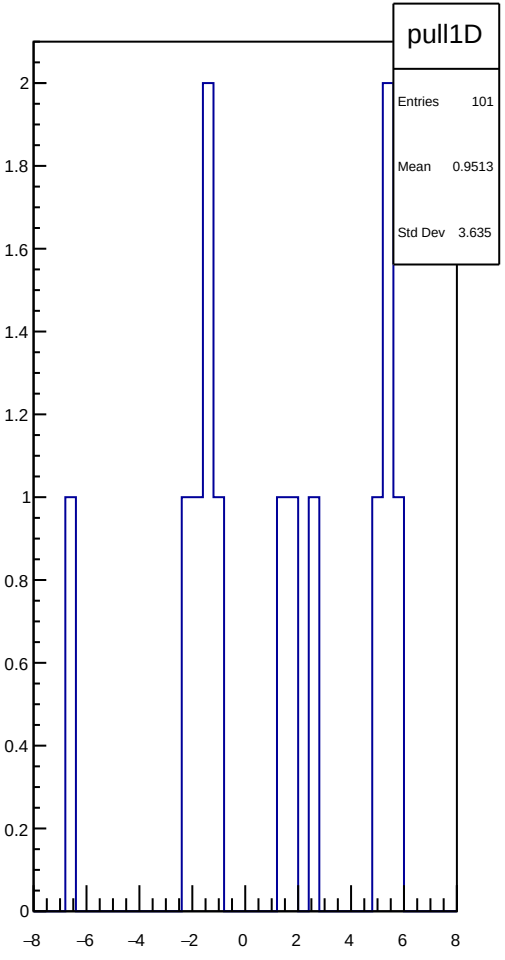

yield_bpm1i06X_rms vs run
χ² / ndf 3.694e+04 / 100
p0 0.01429 ± 1.04e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01

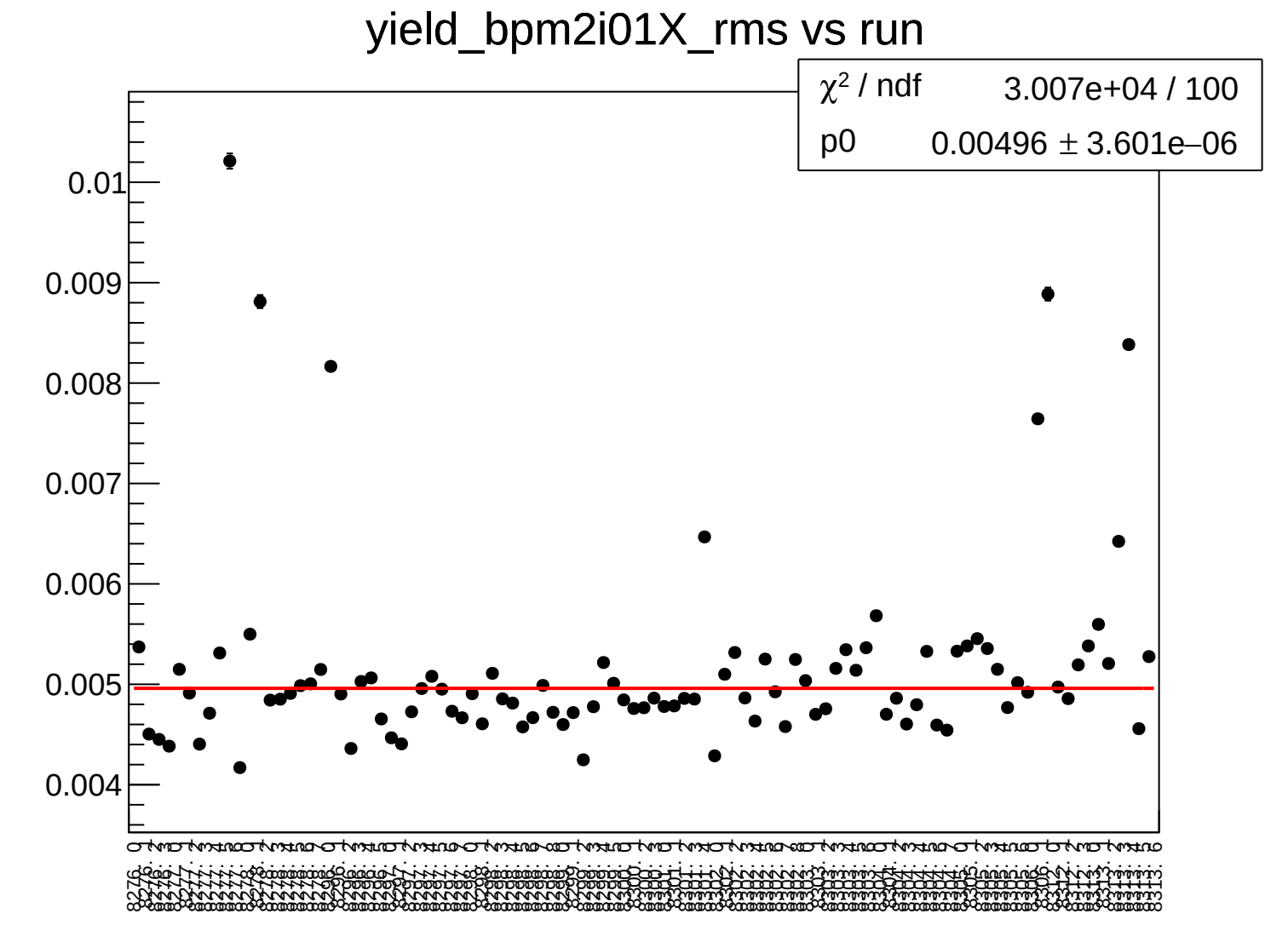

yield_bpm1i06Y_mean vs run
χ² / ndf 2.417e+06 / 100
p0 0.01187 ± 7.906e−06
pull
Entries 101
Mean 1419
Std Dev 0

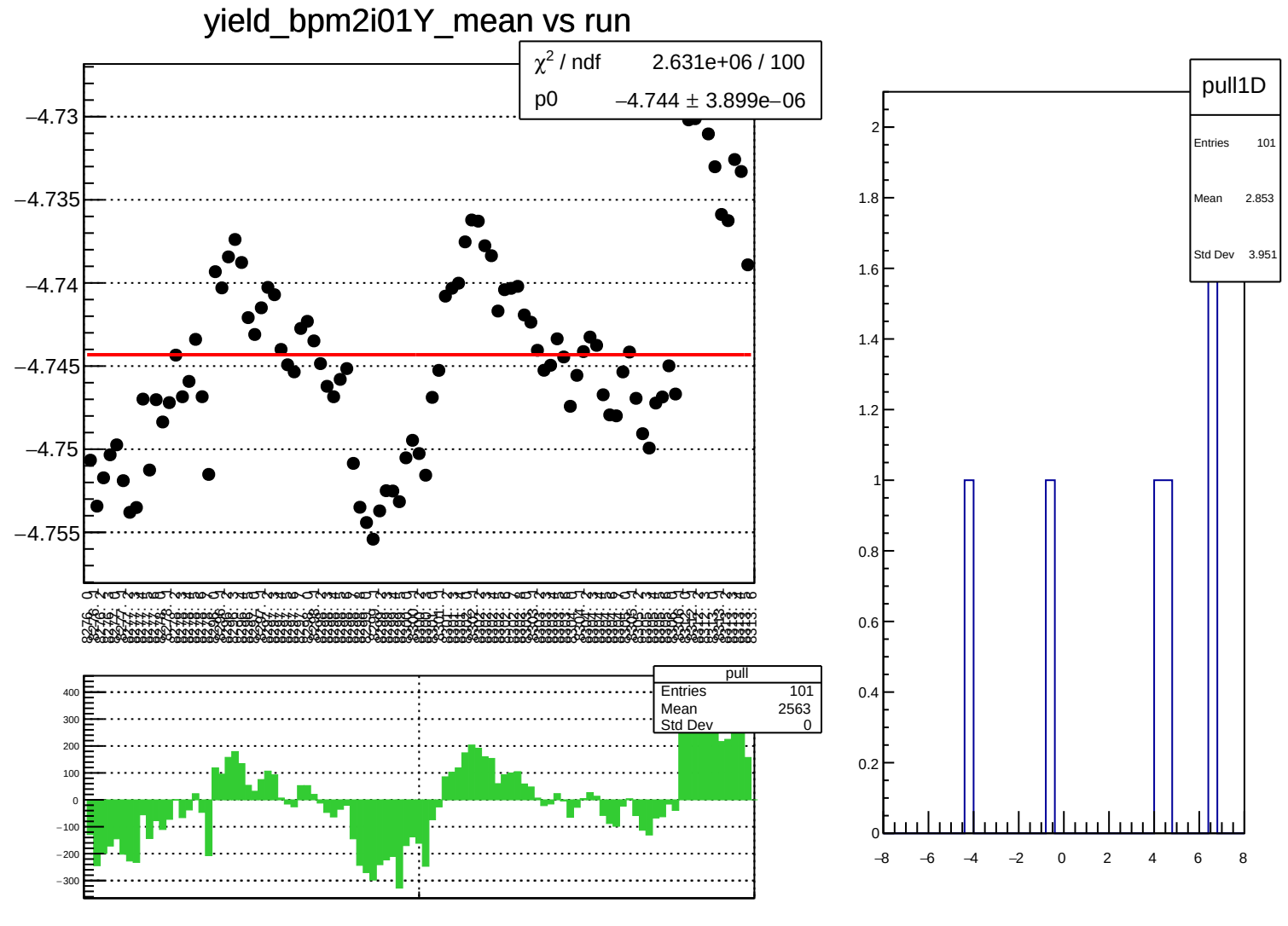

pull1D
Entries 101
Mean 1.389
Std Dev 6.174

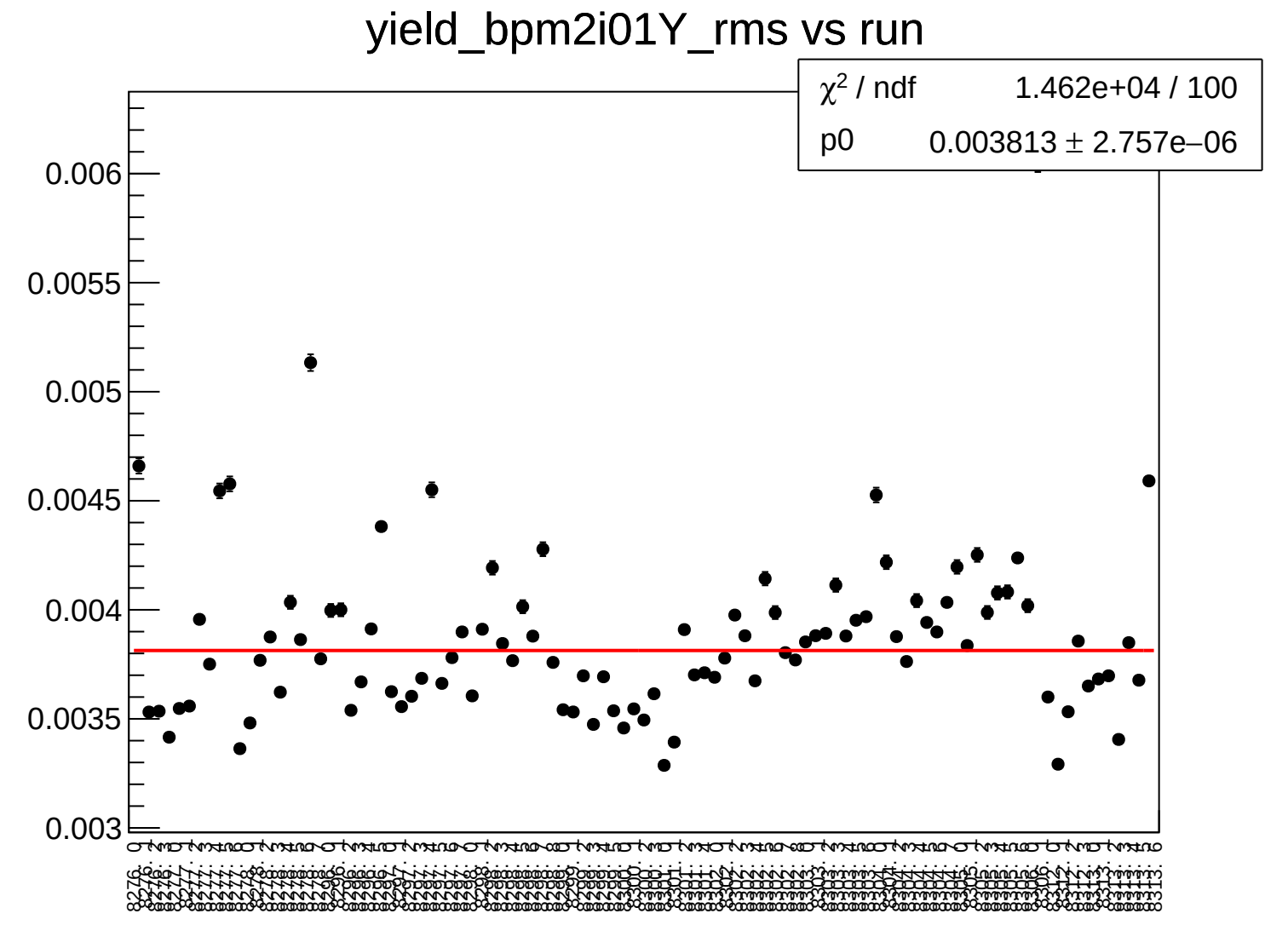

yield_bpm1i06Y_rms vs run
χ² / ndf 7.131e+04 / 100
p0 0.007616 ± 5.59e–06
0.025
0.02
0.015
0.01
0.005

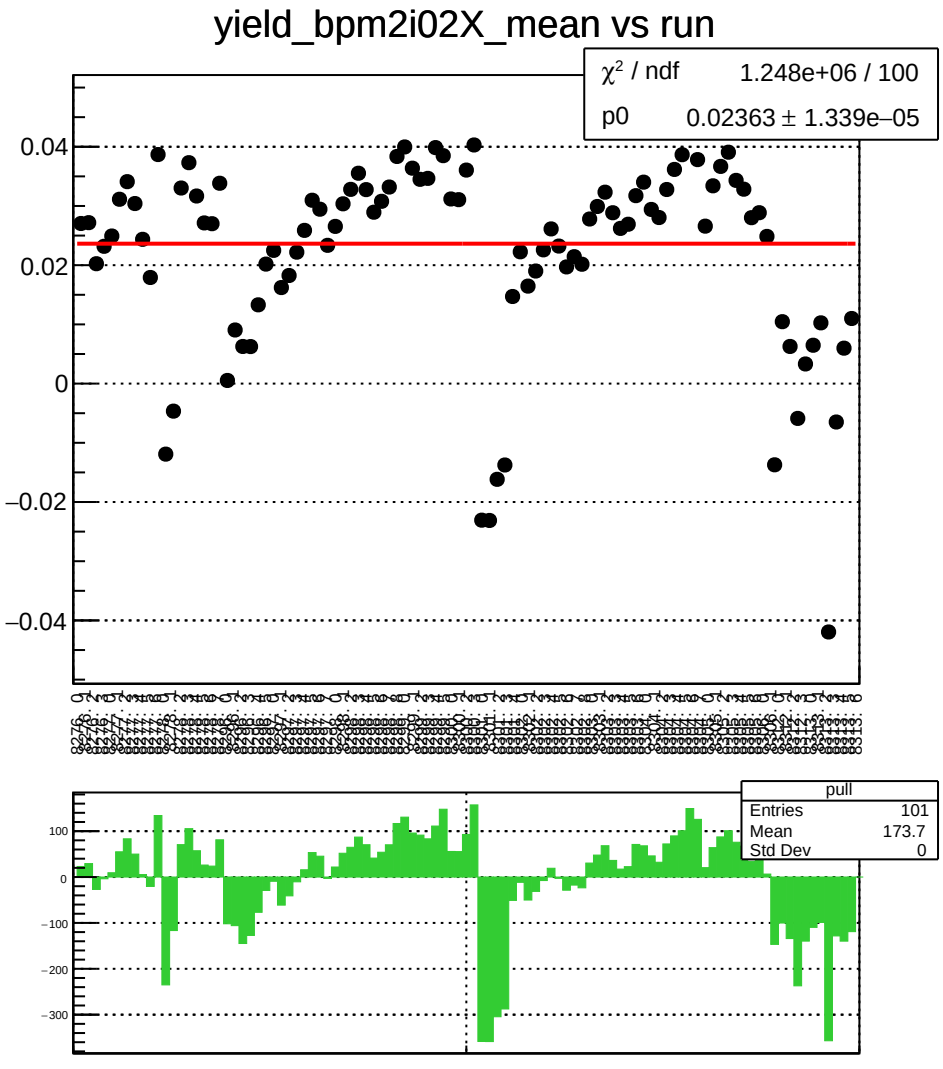

yield_bpm2i01X_mean vs run
χ² / ndf 7.61e+05 / 100
p0 0.8901 ± 5.092e−06
0.895
0.89
0.885
0.88
0.875
0.87
pull
Entries 101
Mean −5.8
Std Dev 61.93
100
50
0
−50
−100
−150
−200
−250
−300

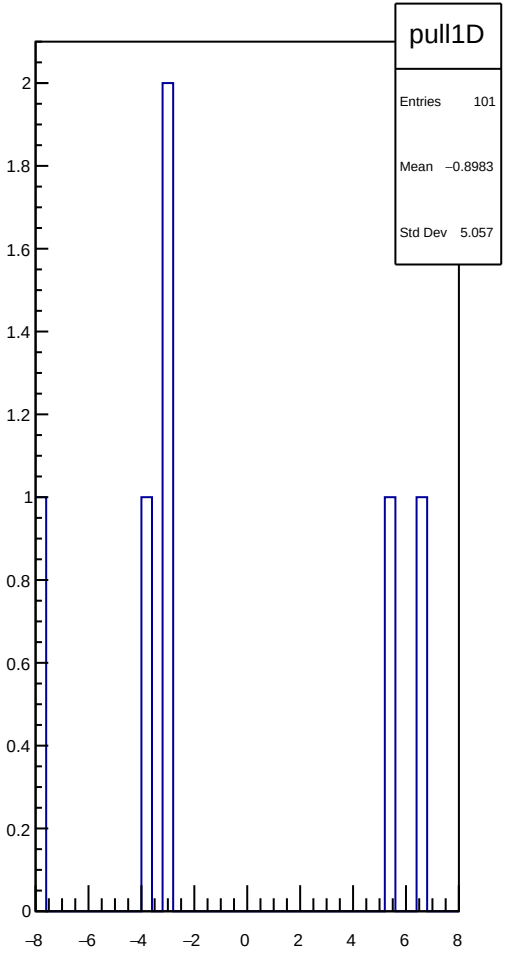

pull1D
Entries 101
Mean 0.9513
Std Dev 3.635
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

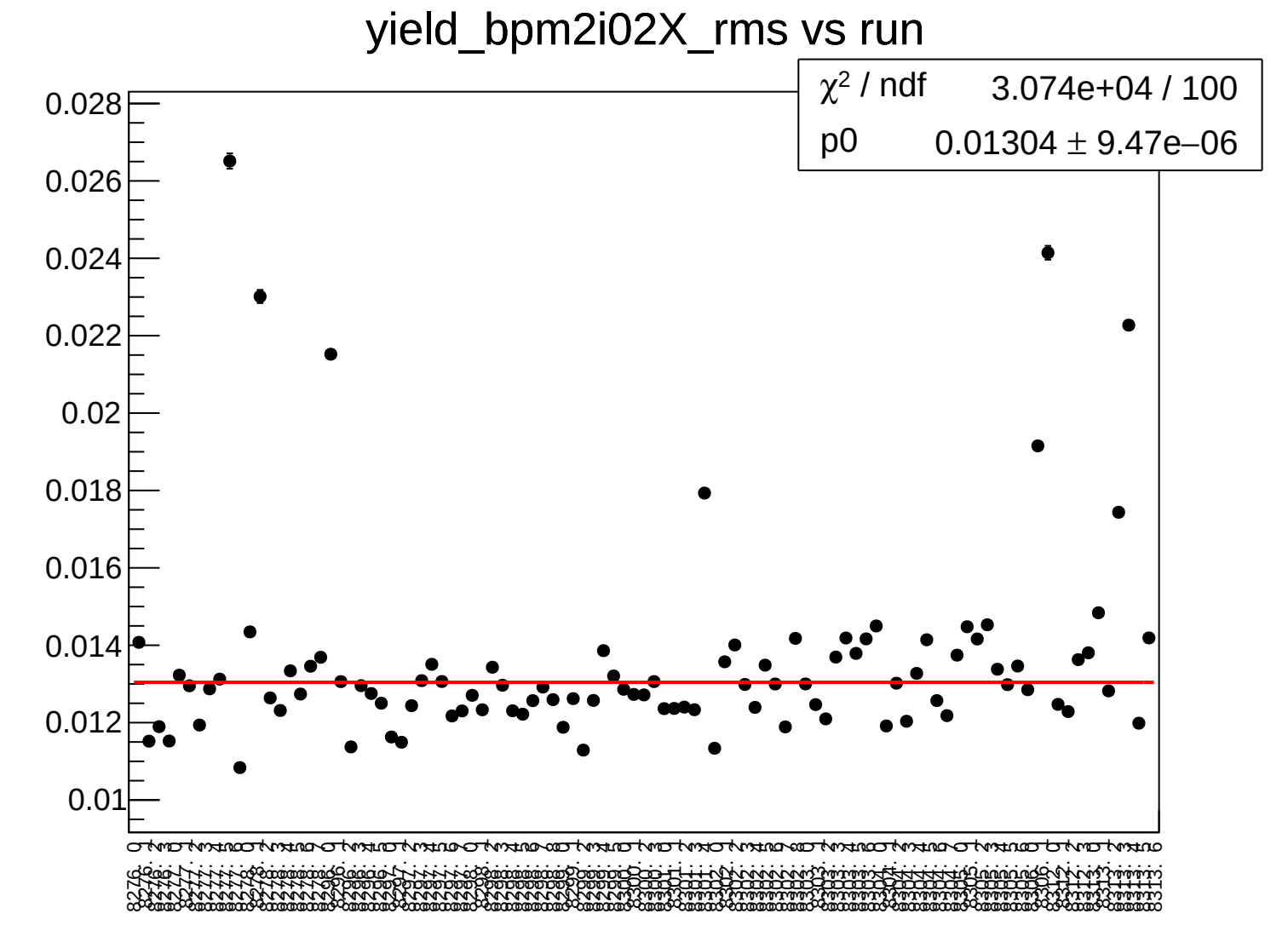

yield_bpm2i01X_rms vs run
χ² / ndf 3.007e+04 / 100
p0 0.00496 ± 3.601e–06
0.01
0.009
0.008
0.007
0.006
0.005
0.004

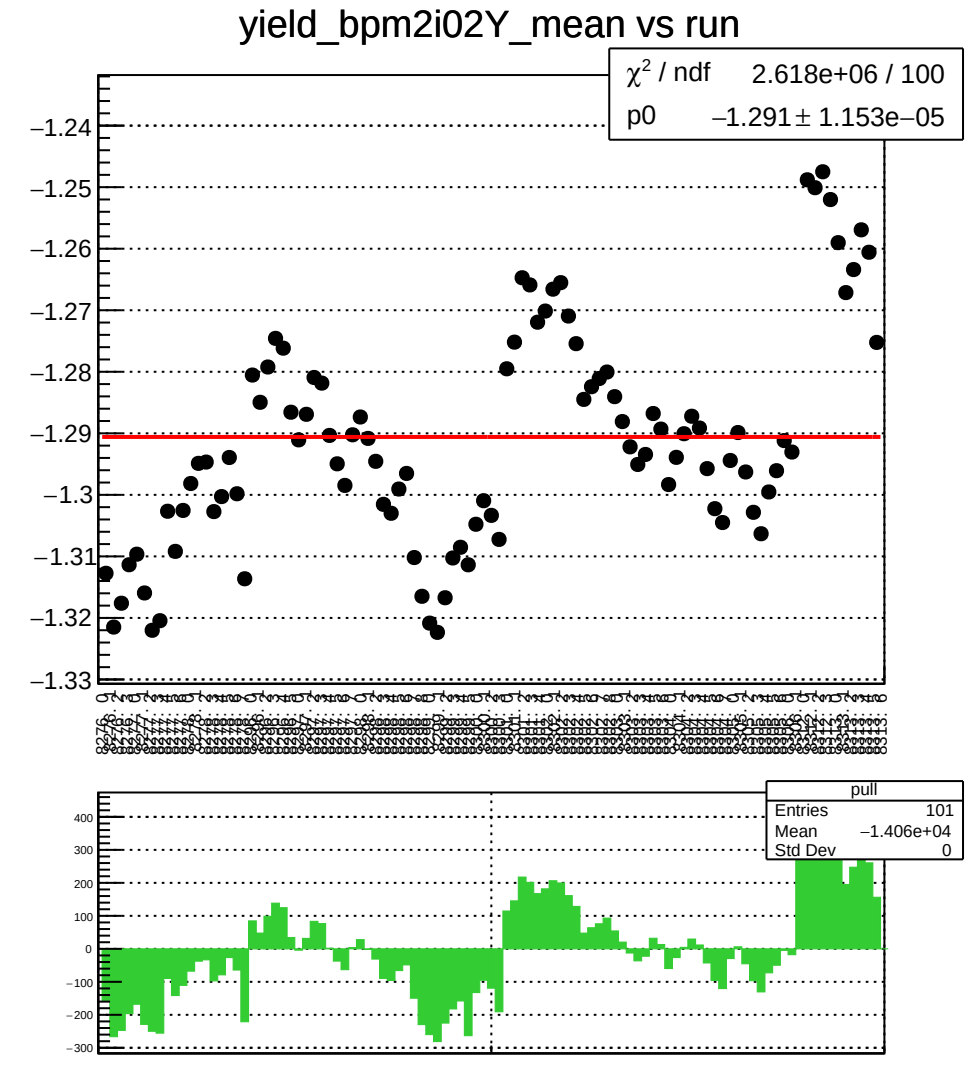

yield_bpm2i01Y_mean vs run
χ² / ndf 2.631e+06 / 100
p0 −4.744 ± 3.899e−06
−4.73
−4.735
−4.74
−4.745
−4.75
−4.755
pull
Entries 101
Mean 2563
Std Dev 0
400
300
200
100
0
−100
−200
−300
pull1D
Entries 101
Mean 2.853
Std Dev 3.951
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

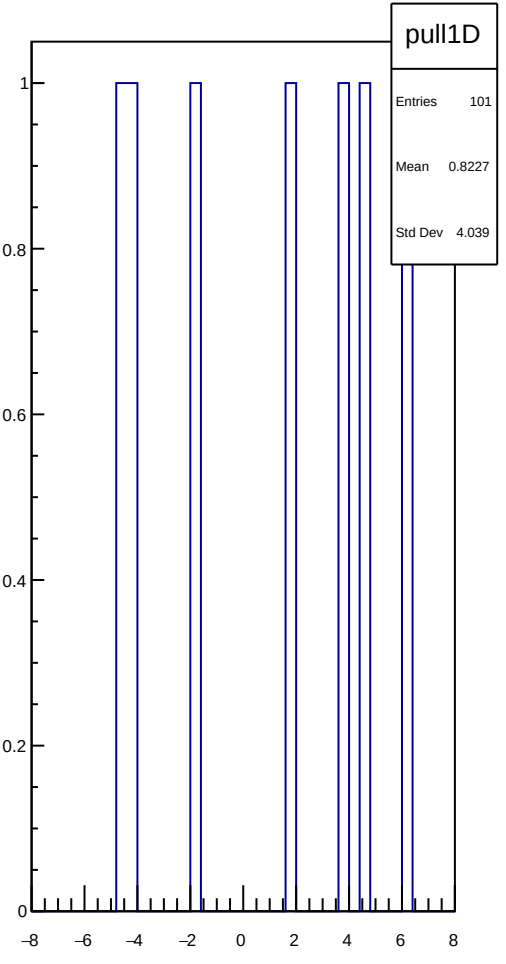

yield_bpm2i01Y_rms vs run
χ² / ndf 1.462e+04 / 100
p0 0.003813 ± 2.757e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003

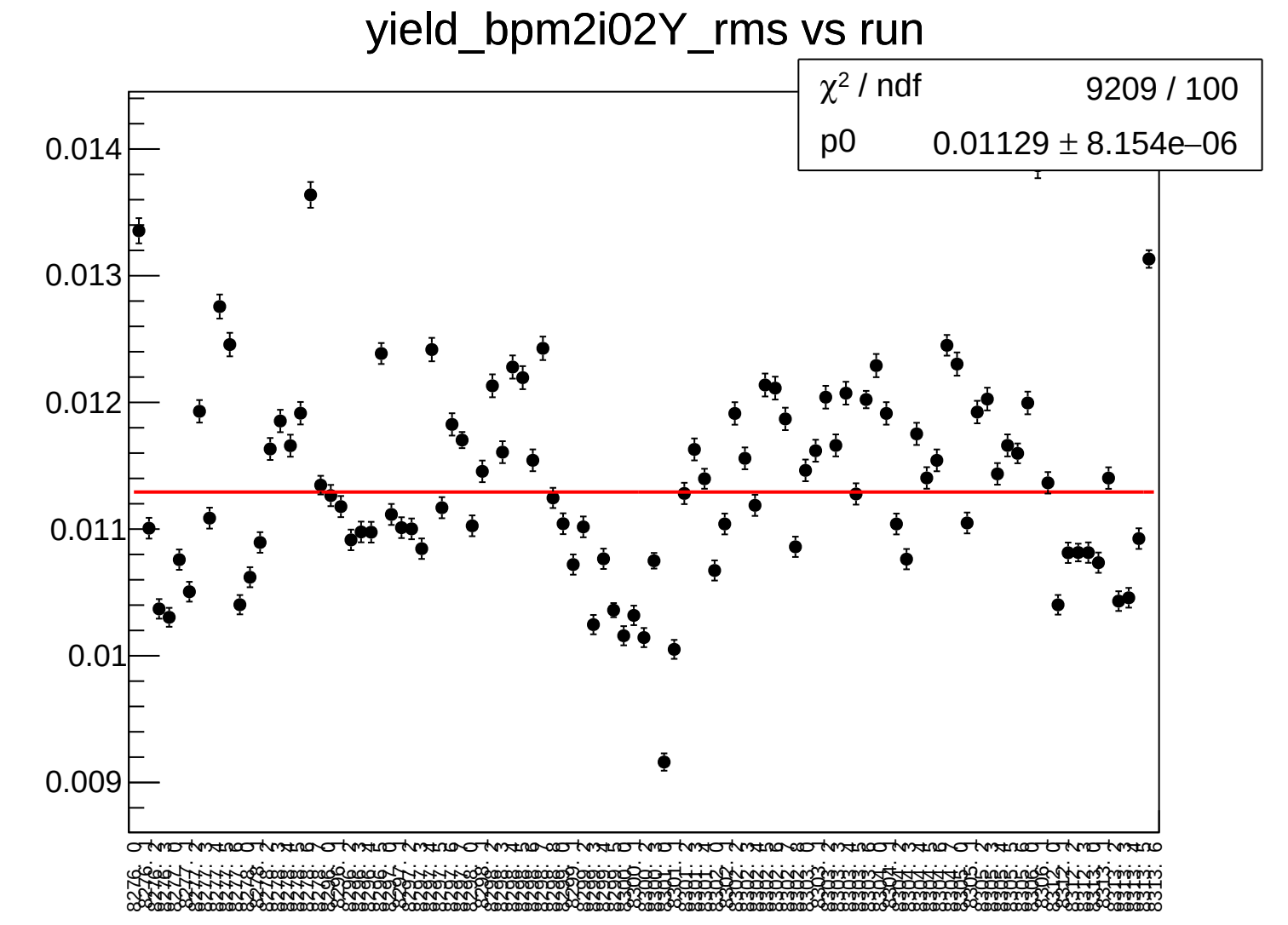

yield_bpm2i02X_mean vs run
χ² / ndf 1.248e+06 / 100
p0 0.02363 ± 1.339e–05
0.04
0.02
0
–0.02
–0.04
pull
Entries 101
Mean 173.7
Std Dev 0
100
0
–100
–200
–300

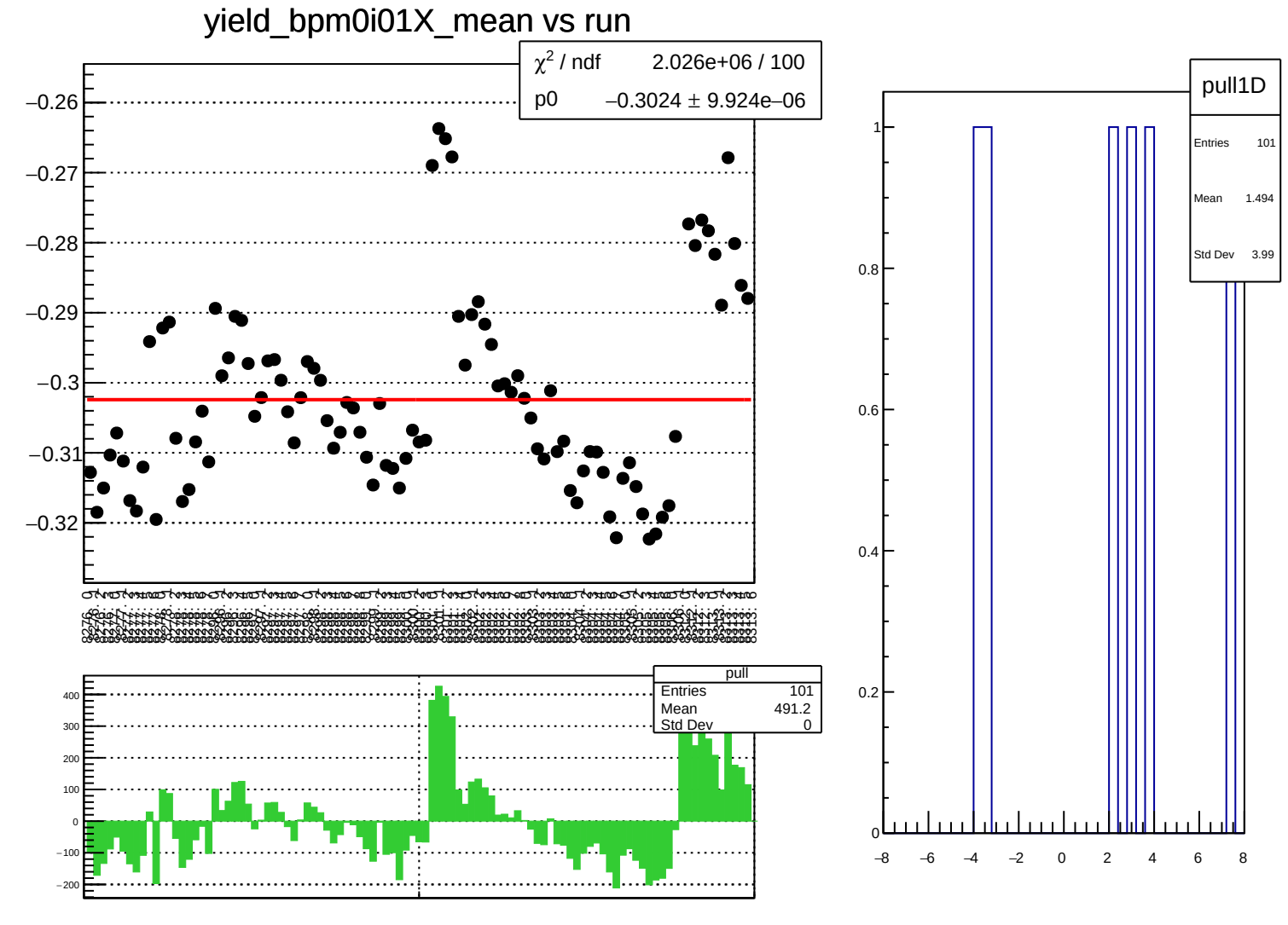

pull1D
Entries 101
Mean –0.8983
Std Dev 5.057
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


yield_bpm2i02X_rms vs run
χ² / ndf 3.074e+04 / 100
p0 0.01304 ± 9.47e−06
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

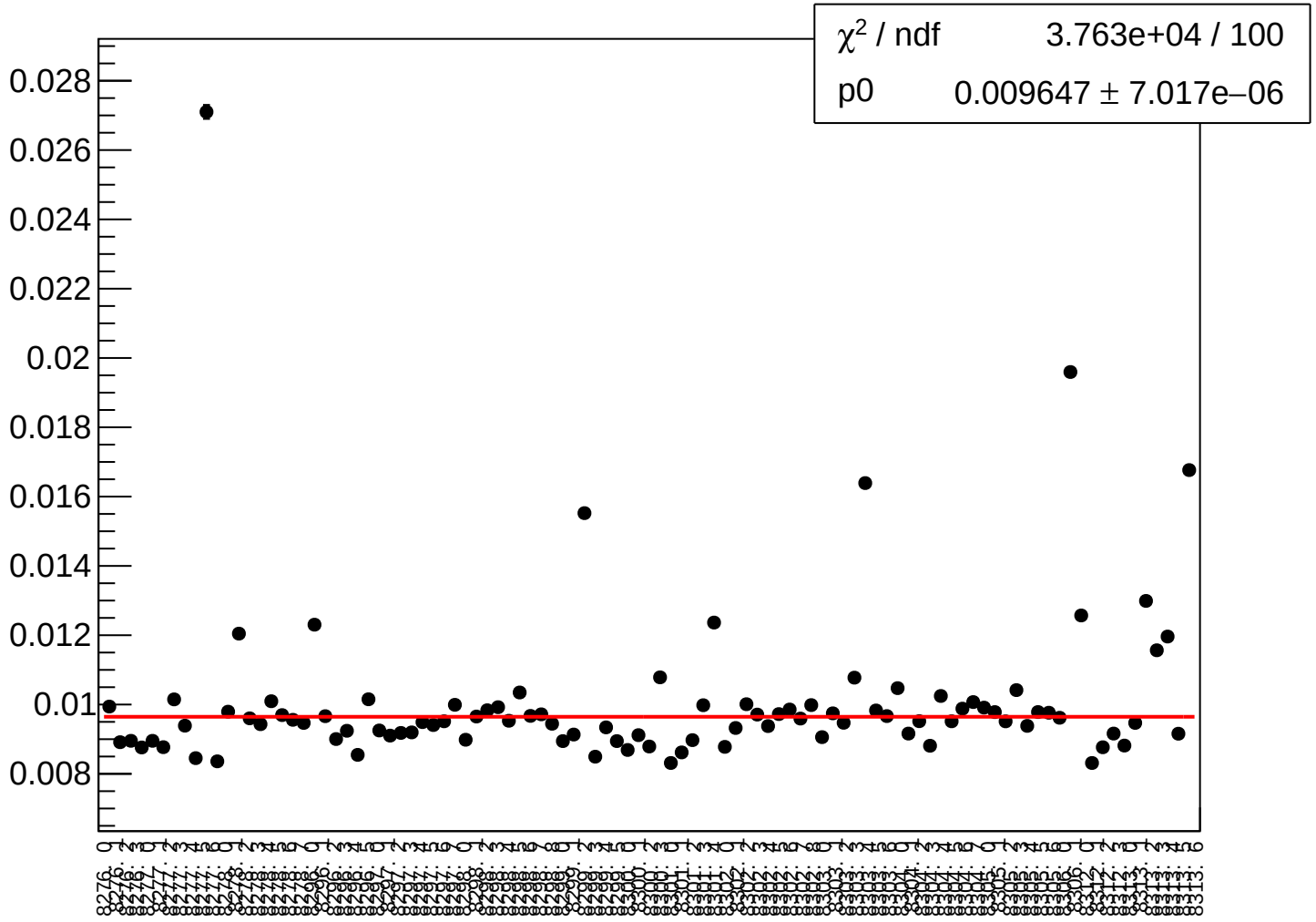

yield_bpm2i02Y_mean vs run
χ² / ndf 2.618e+06 / 100
p0 −1.291 ± 1.153e−05
−1.24
−1.25
−1.26
−1.27
−1.28
−1.29
−1.3
−1.31
−1.32
−1.33
pull
Entries 101
Mean −1.406e+04
Std Dev 0
400
300
200
100
0
−100
−200
−300

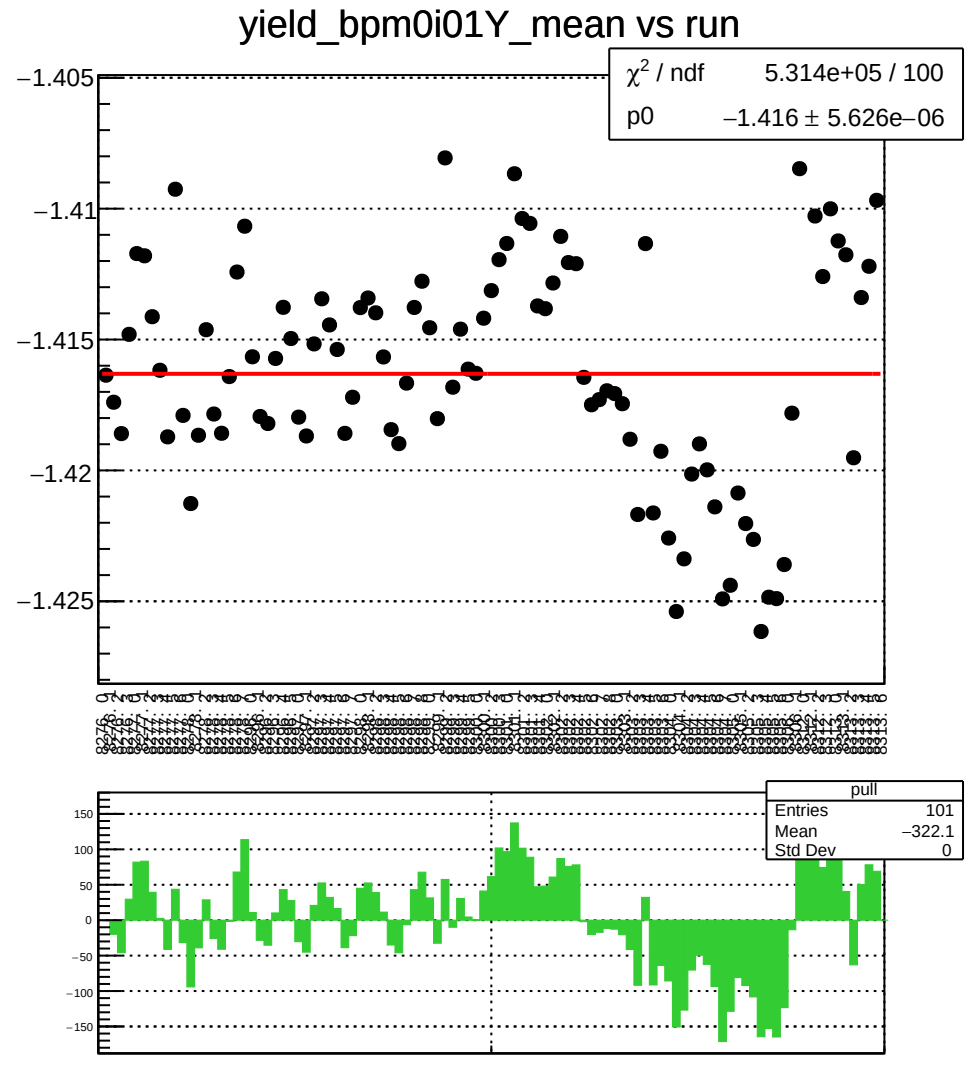

pull1D
Entries 101
Mean 0.8227
Std Dev 4.039
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

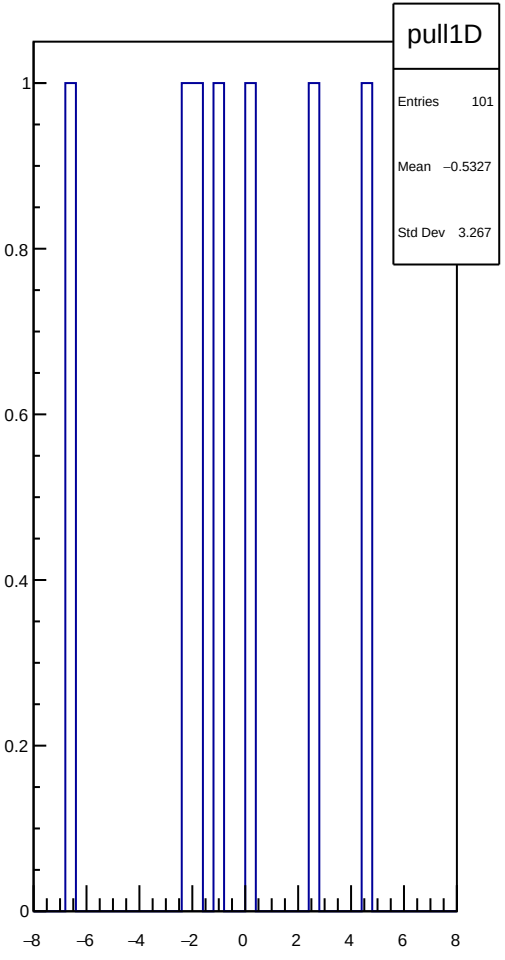

yield_bpm2i02Y_rms vs run
χ² / ndf 9209 / 100
p0 0.01129 ± 8.154e−06
0.014
0.013
0.012
0.011
0.01
0.009

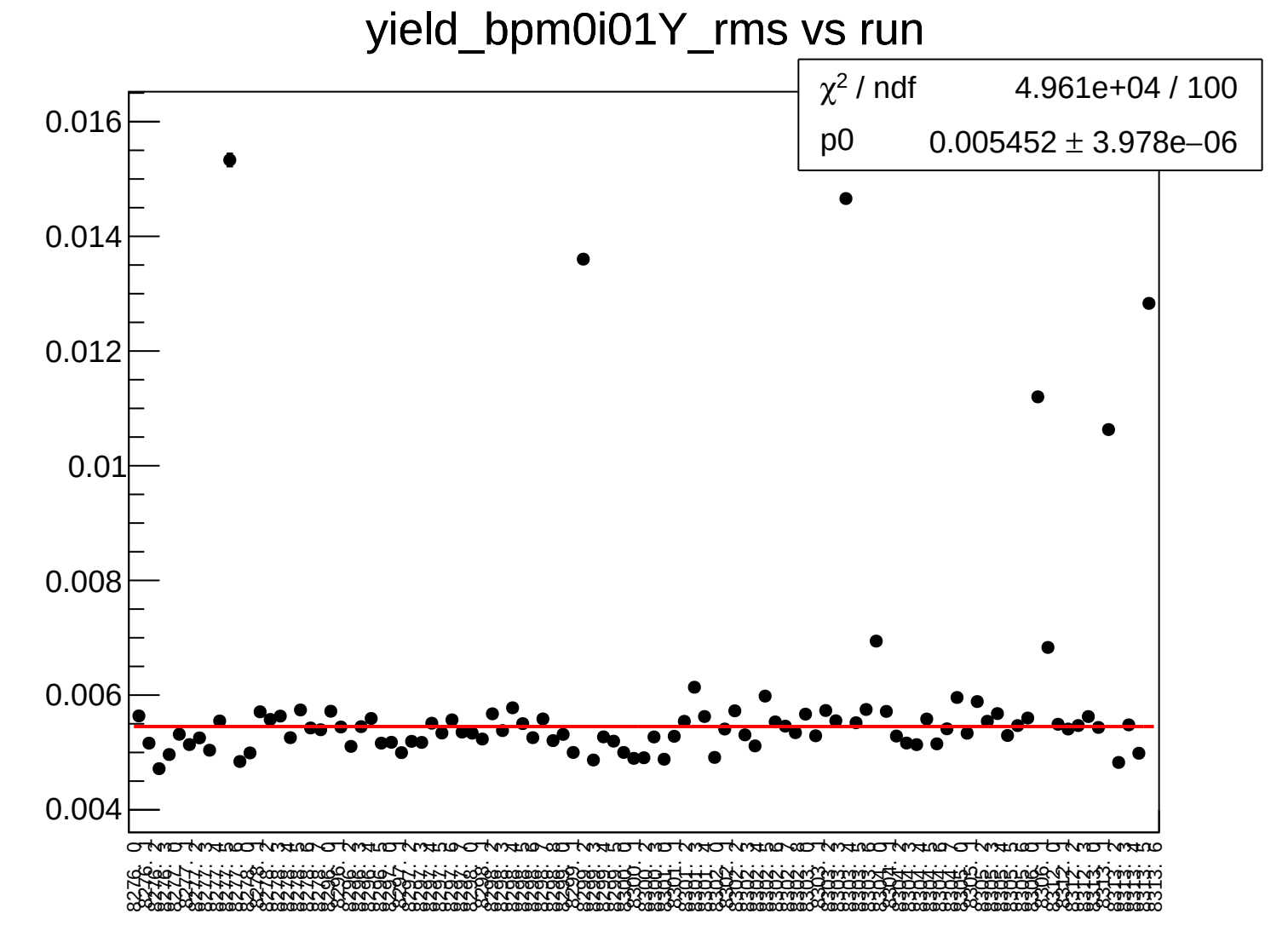

yield_bpm0i01X_mean vs run
χ² / ndf 2.026e+06 / 100
p0 −0.3024 ± 9.924e−06
−0.26
−0.27
−0.28
−0.29
−0.3
−0.31
−0.32
pull
Entries 101
Mean 491.2
Std Dev 0
400
300
200
100
0
−100
−200
pull1D
Entries 101
Mean 1.494
Std Dev 3.99
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

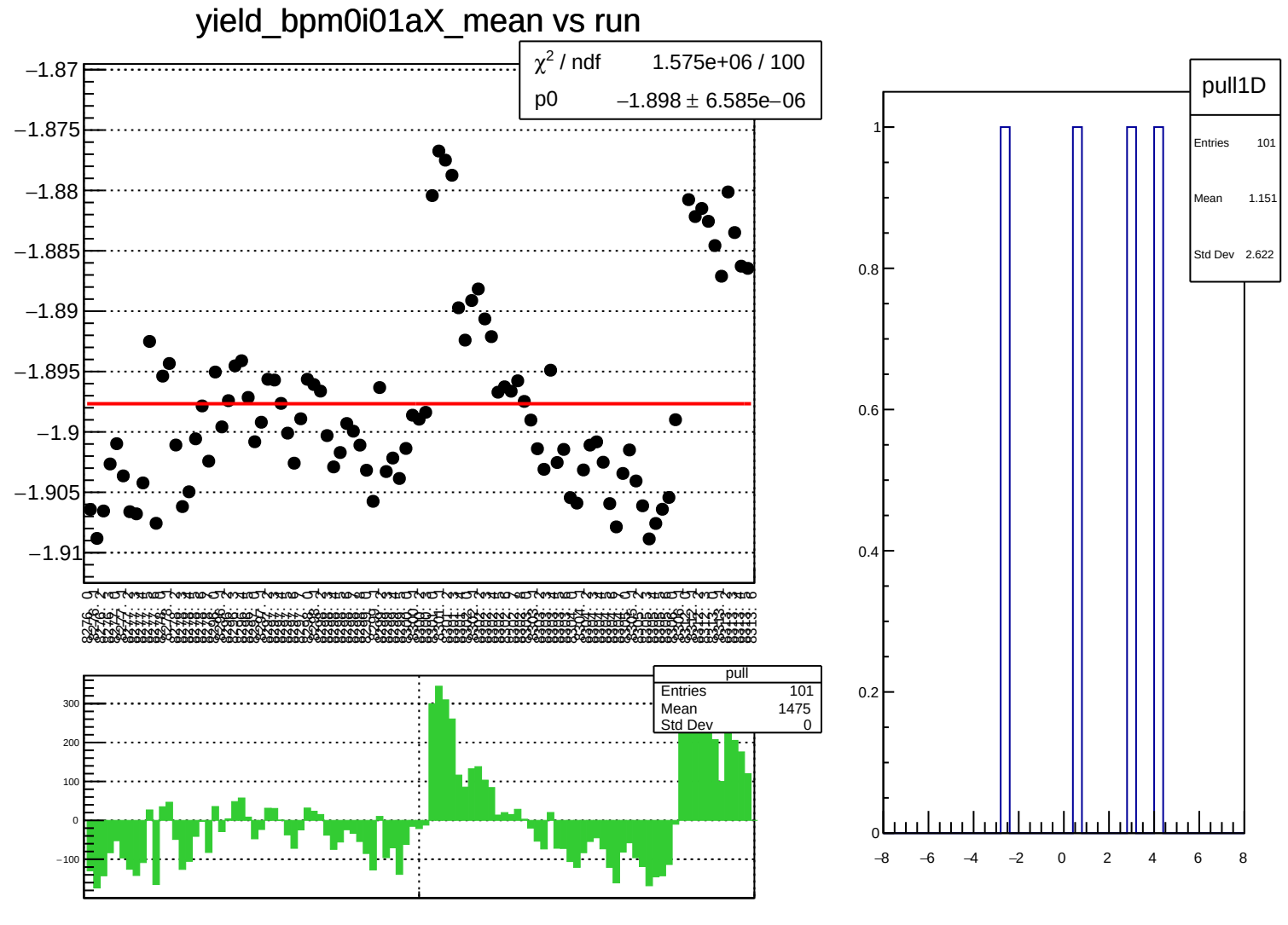
yield_bpm0i01X_rms vs run

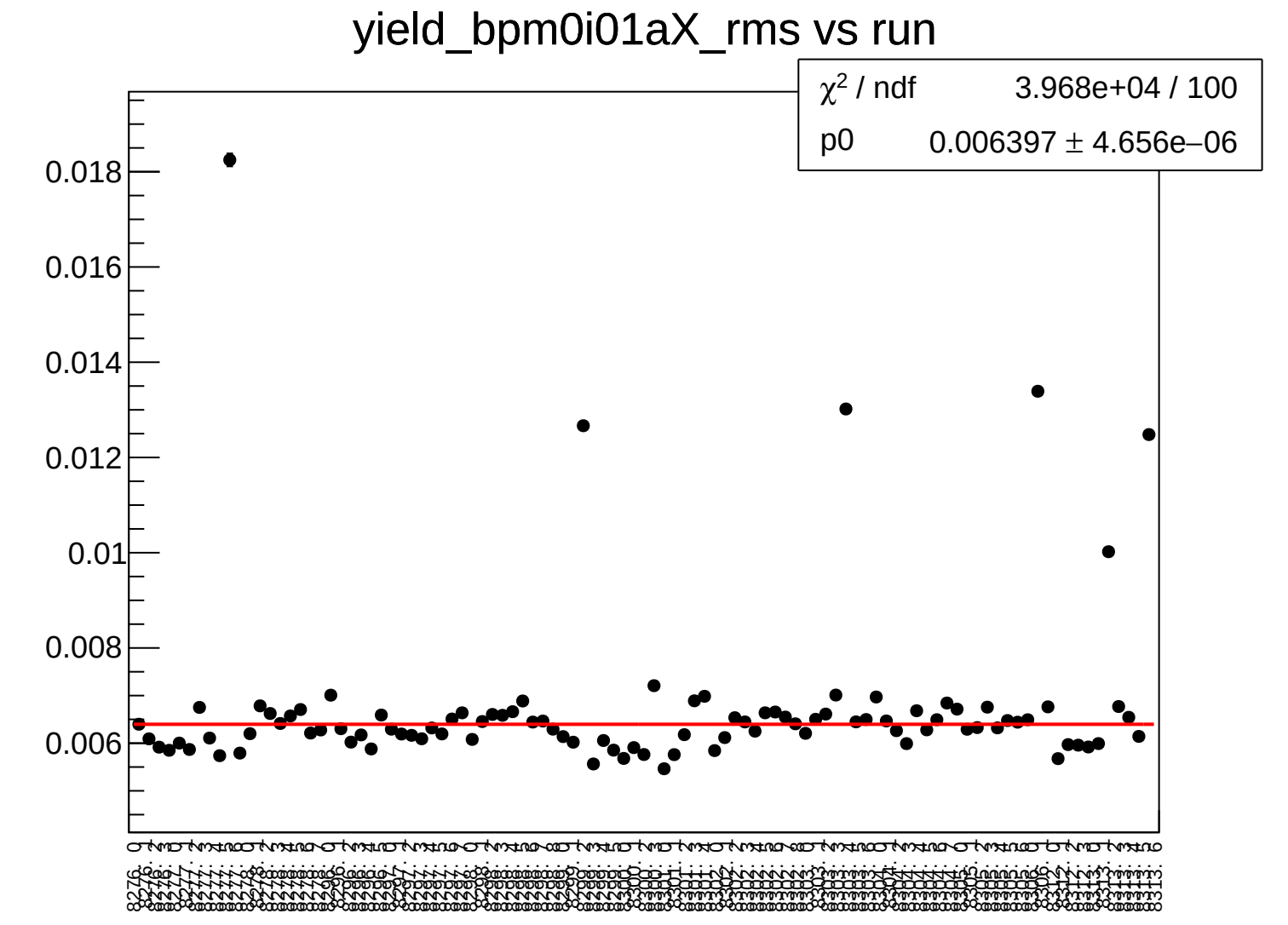


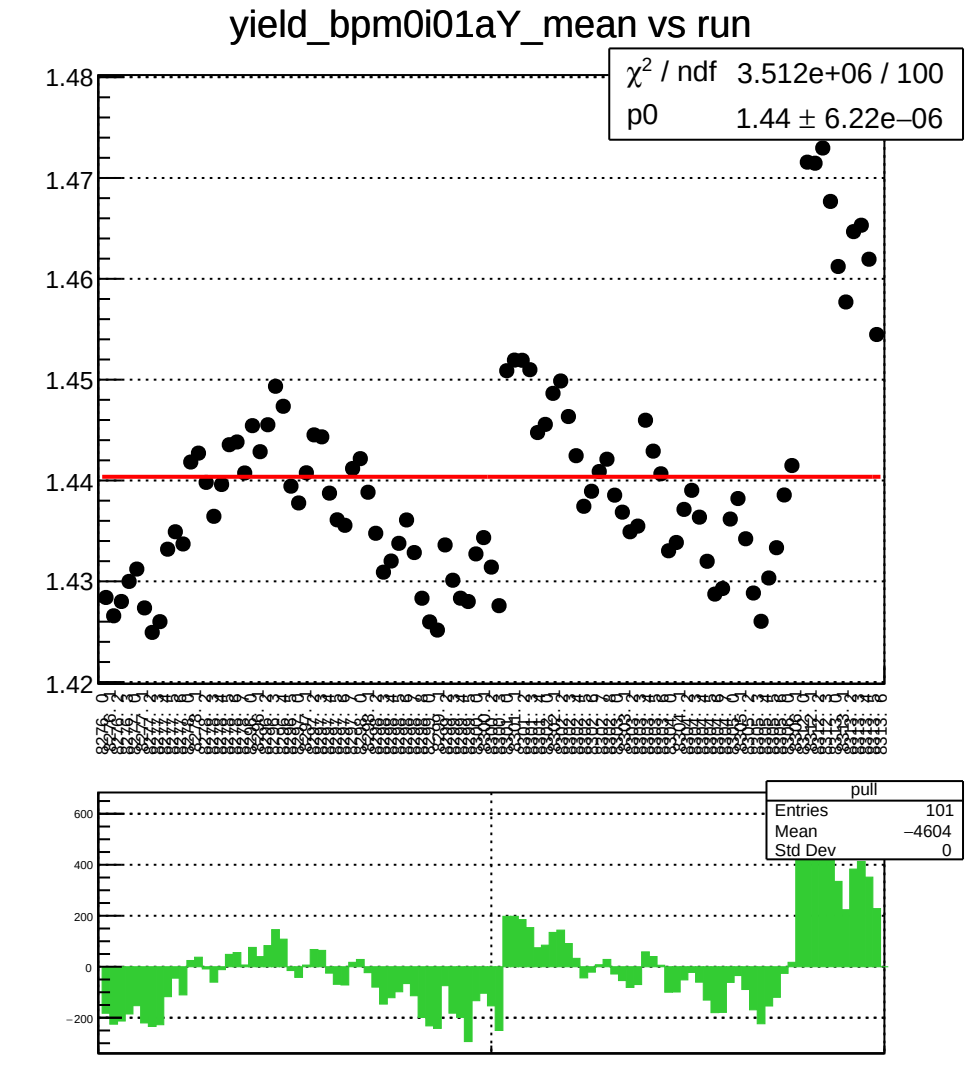

yield_bpm0i01Y_mean vs run
χ² / ndf 5.314e+05 / 100
p0 −1.416 ± 5.626e−06
−1.405
−1.41
−1.415
−1.42
−1.425
pull
Entries 101
Mean −322.1
Std Dev 0
150
100
50
0
−50
−100
−150

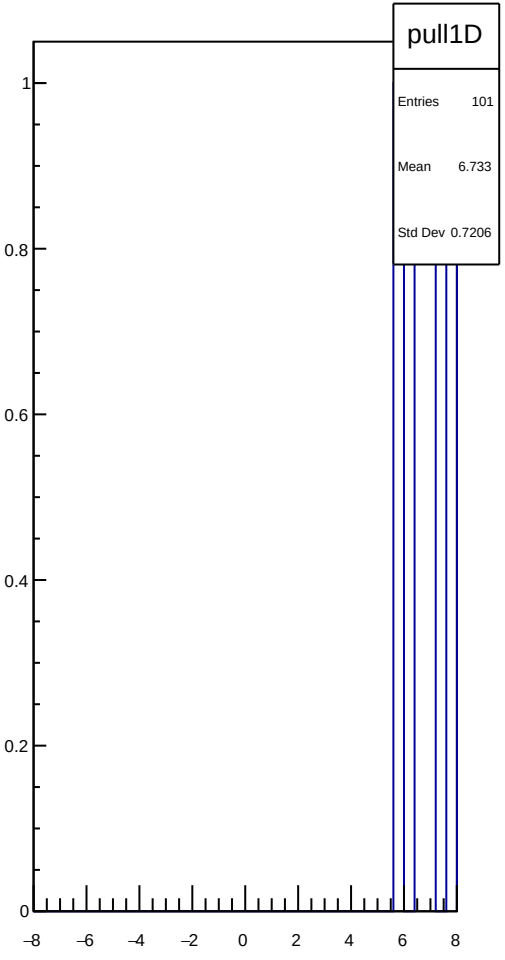

pull1D
Entries 101
Mean −0.5327
Std Dev 3.267
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

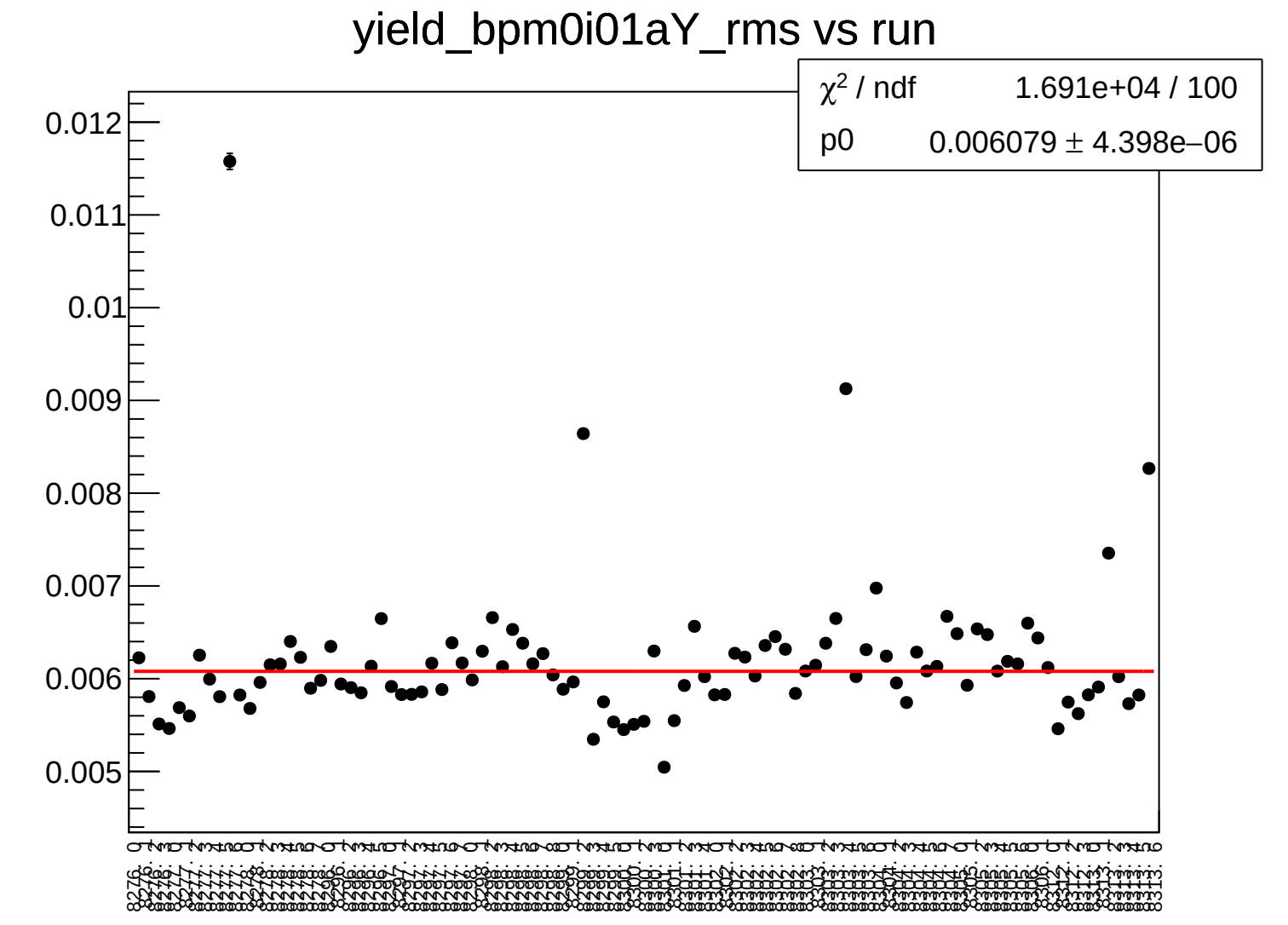

yield_bpm0i01Y_rms vs run
χ² / ndf 4.961e+04 / 100
p0 0.005452 ± 3.978e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

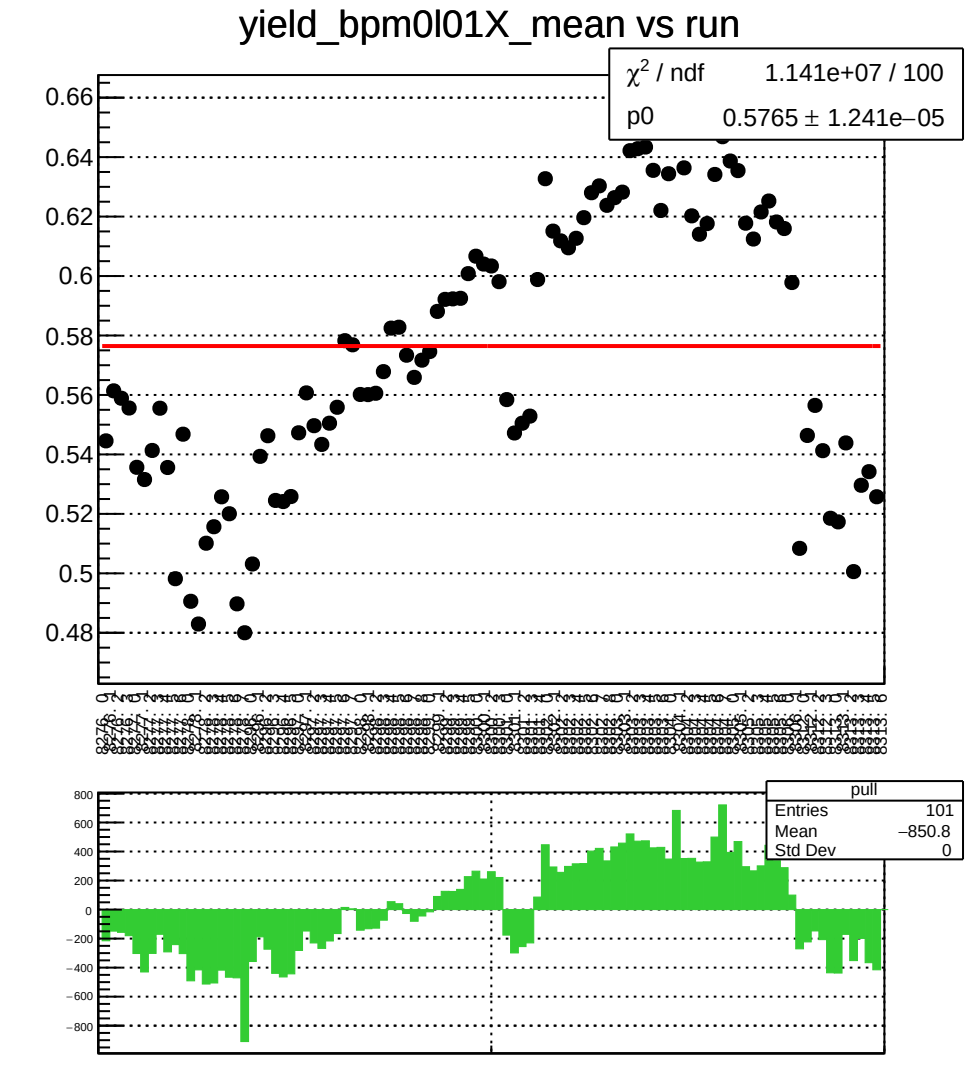

yield_bpm0i01aX_mean vs run
χ² / ndf 1.575e+06 / 100
p0 −1.898 ± 6.585e−06
−1.87
−1.875
−1.88
−1.885
−1.89
−1.895
−1.9
−1.905
−1.91
pull
Entries 101
Mean 1475
Std Dev 0
300
200
100
0
−100
pull1D
Entries 101
Mean 1.151
Std Dev 2.622
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

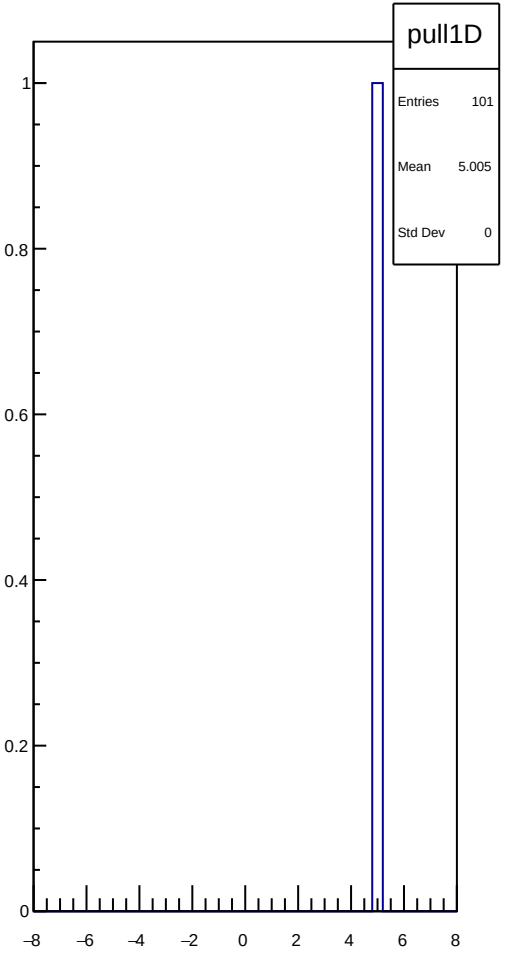

yield_bpm0i01aX_rms vs run
χ² / ndf 3.968e+04 / 100
p0 0.006397 ± 4.656e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006

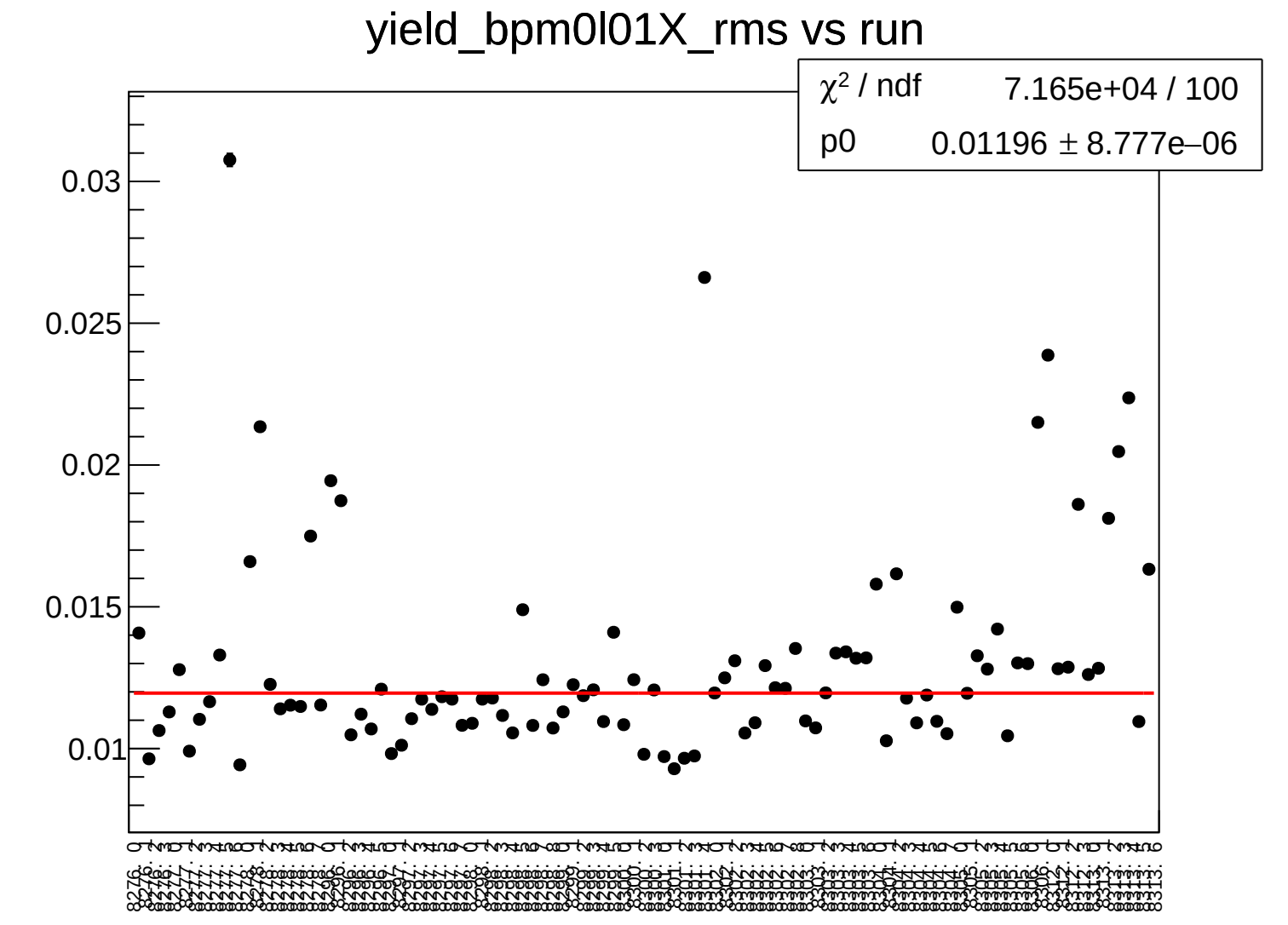

yield_bpm0i01aY_mean vs run
χ² / ndf 3.512e+06 / 100
p0 1.44 ± 6.22e−06
1.48
1.47
1.46
1.45
1.44
1.43
1.42
pull
Entries 101
Mean −4604
Std Dev 0
600
400
200
0
−200

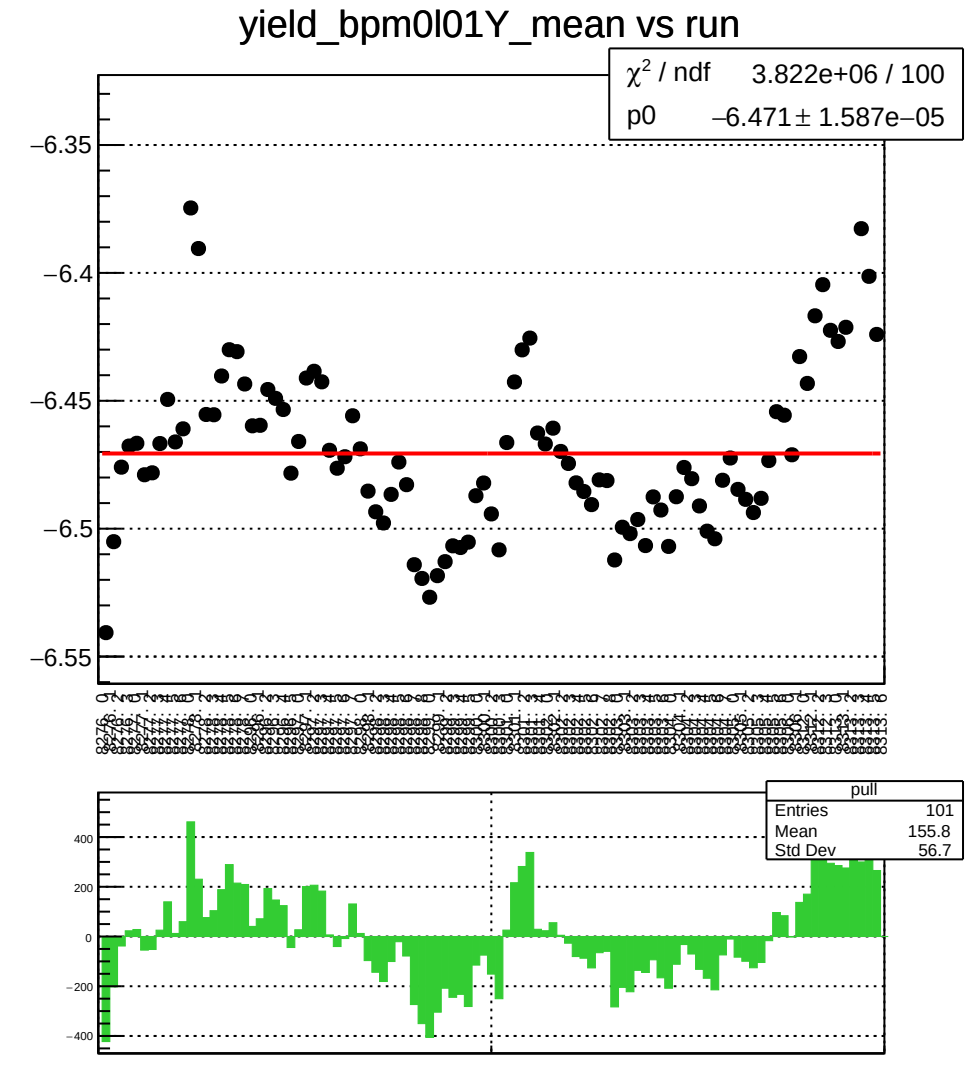

pull1D
Entries 101
Mean 6.733
Std Dev 0.7206
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

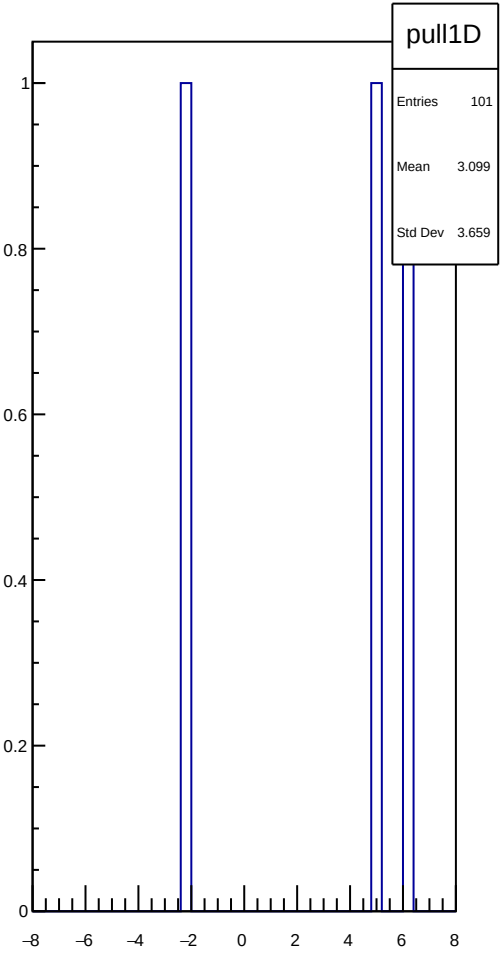

yield_bpm0i01aY_rms vs run
χ² / ndf 1.691e+04 / 100
p0 0.006079 ± 4.398e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005

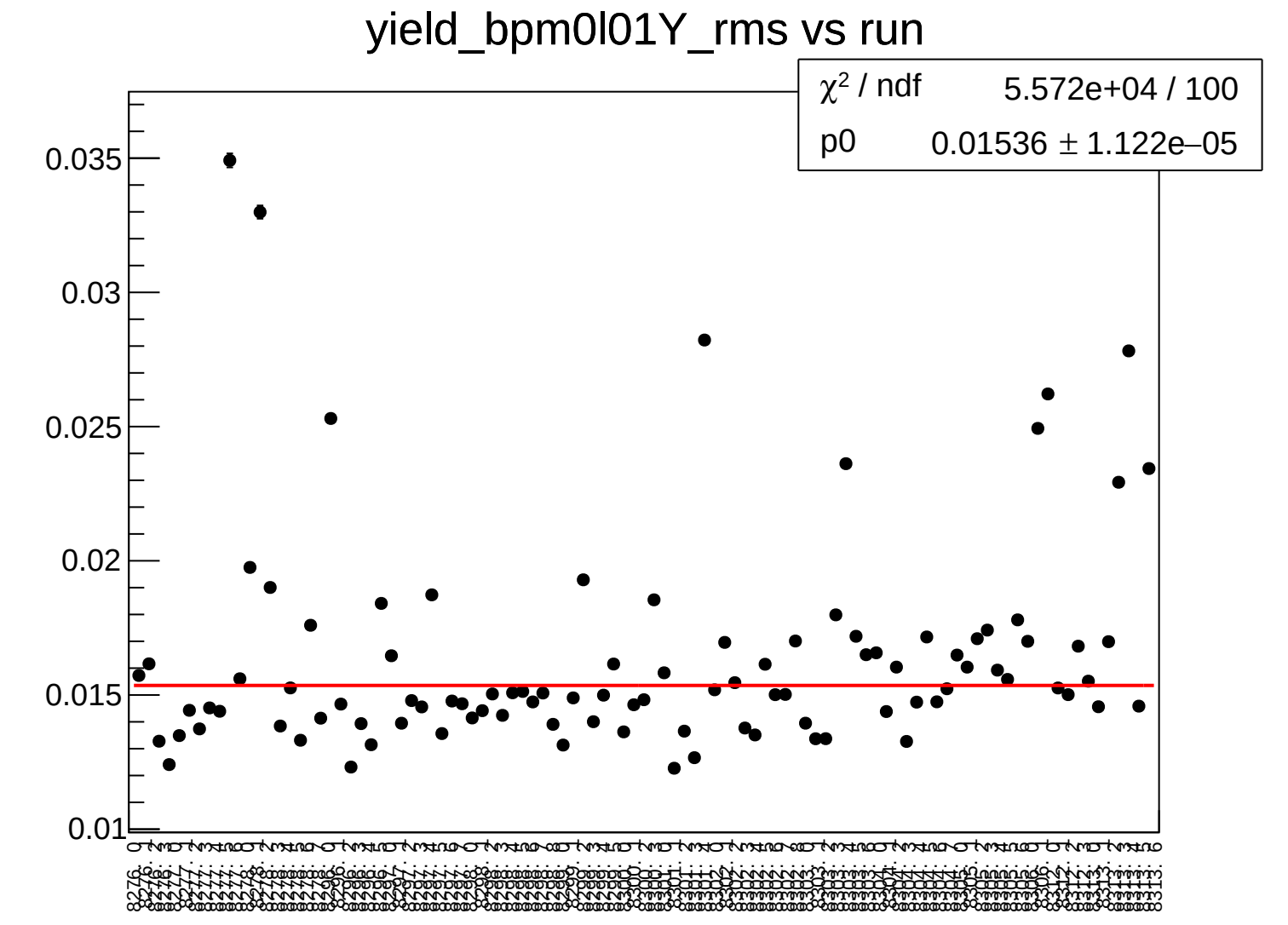

yield_bpm0l01X_mean vs run
χ² / ndf 1.141e+07 / 100
p0 0.5765 ± 1.241e−05
0.66
0.64
0.62
0.6
0.58
0.56
0.54
0.52
0.5
0.48
pull
Entries 101
Mean −850.8
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800

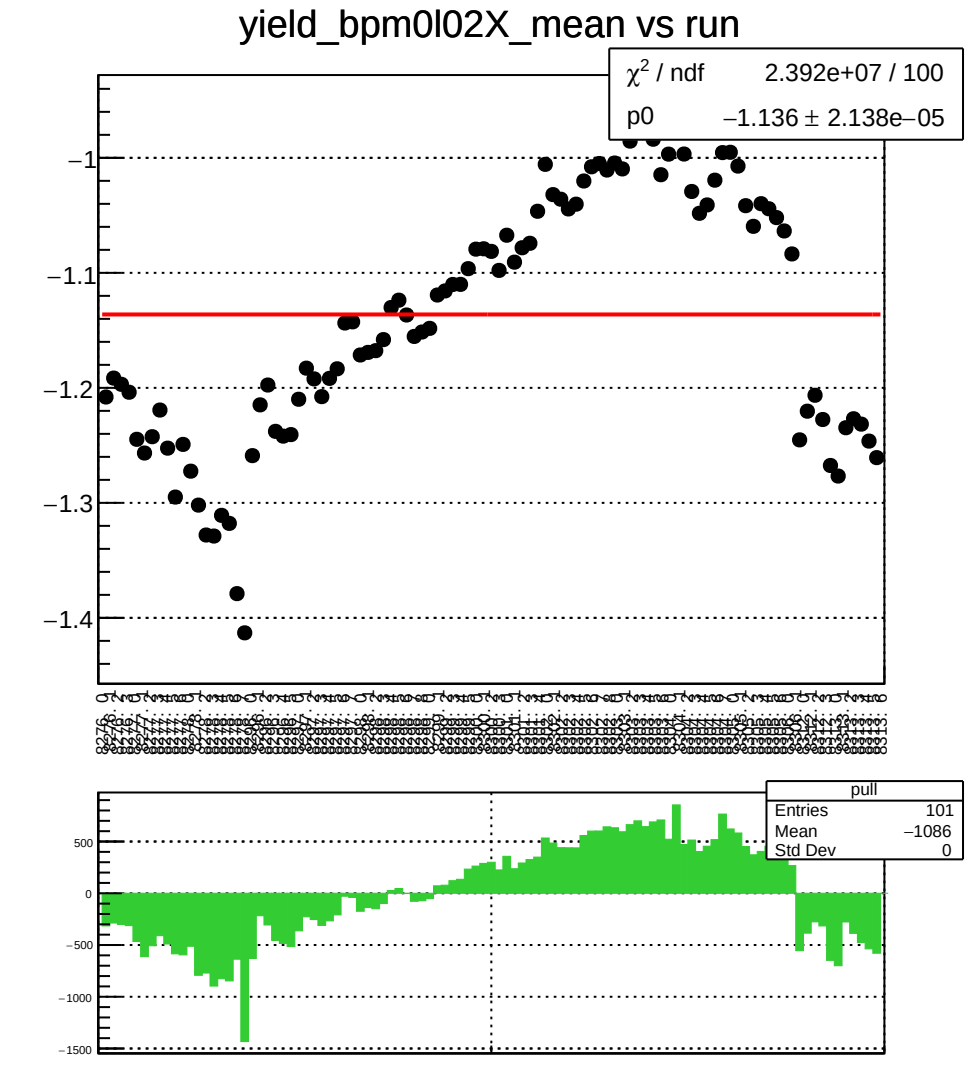

pull1D
Entries 101
Mean 5.005
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

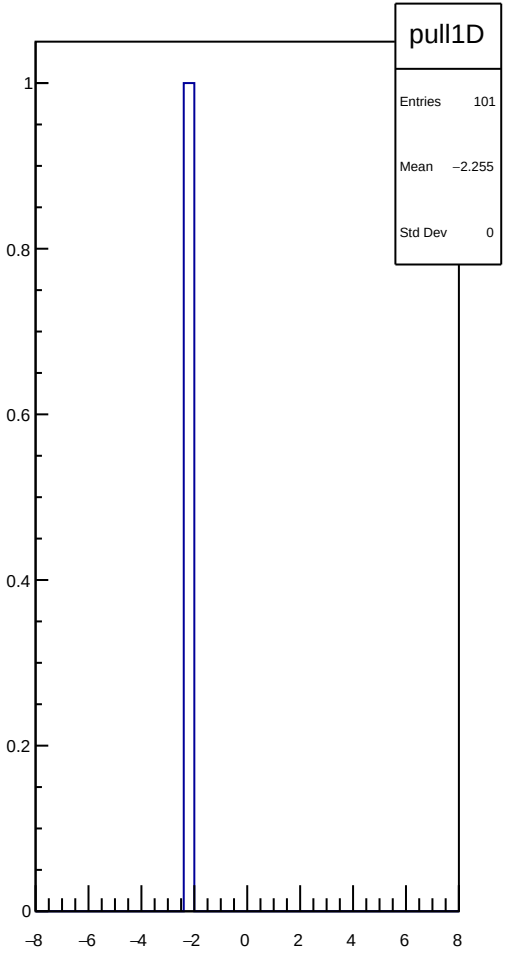

yield_bpm0l01X_rms vs run
χ² / ndf 7.165e+04 / 100
p0 0.01196 ± 8.777e–06
0.03
0.025
0.02
0.015
0.01

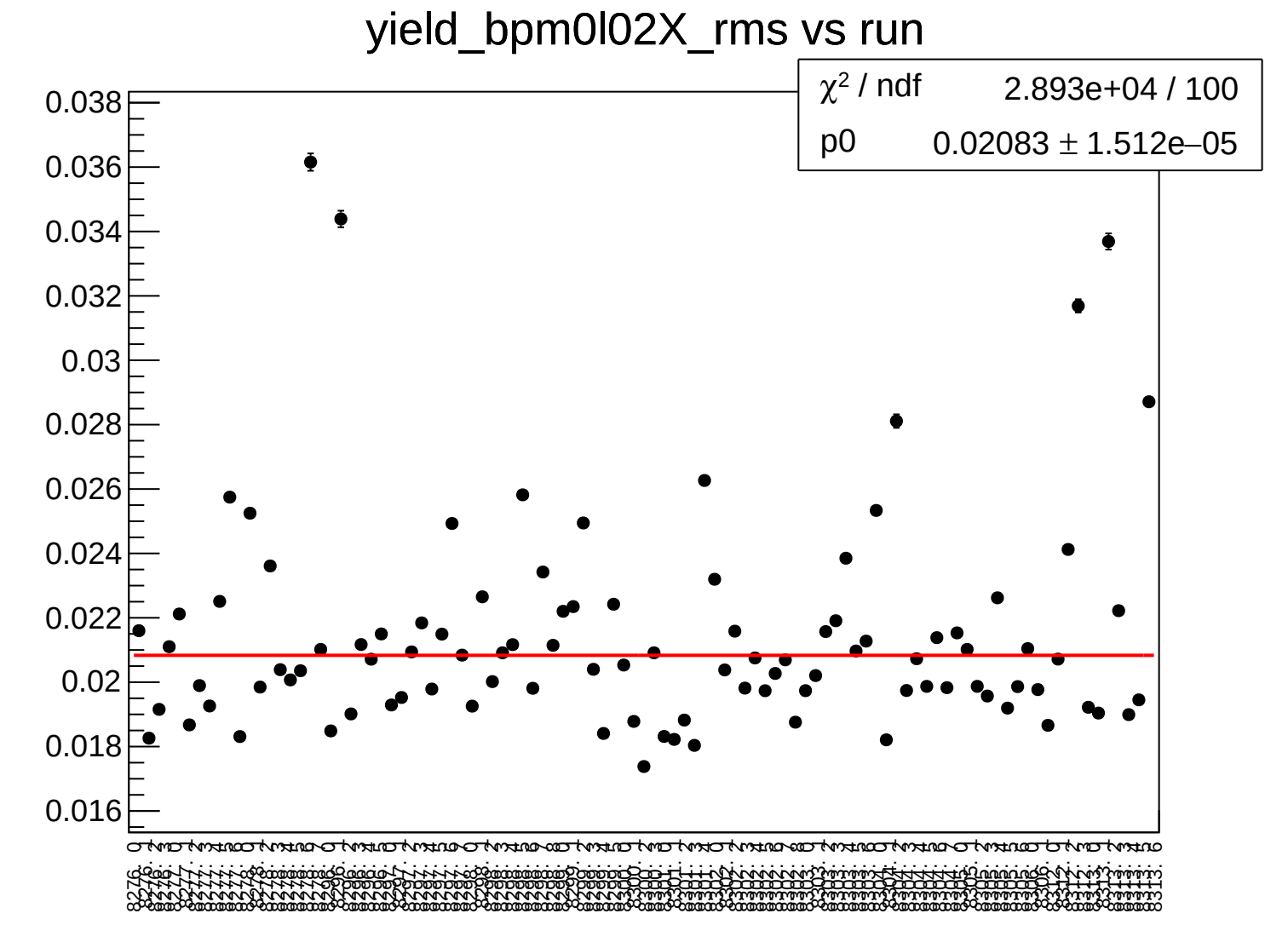

yield_bpm0l01Y_mean vs run
χ² / ndf 3.822e+06 / 100
p0 −6.471 ± 1.587e−05
−6.35
−6.4
−6.45
−6.5
−6.55
pull
Entries 101
Mean 155.8
Std Dev 56.7
400
200
0
−200
−400

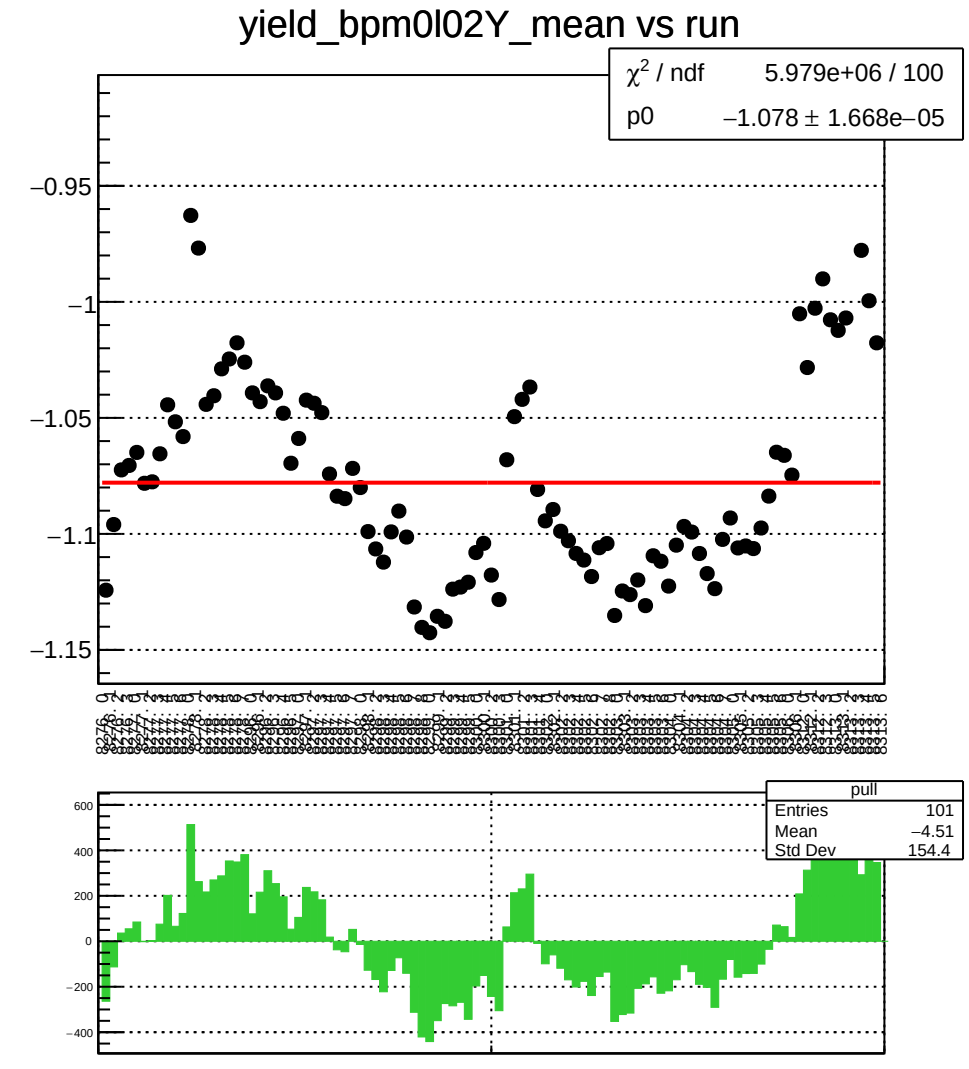

pull1D
Entries 101
Mean 3.099
Std Dev 3.659
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

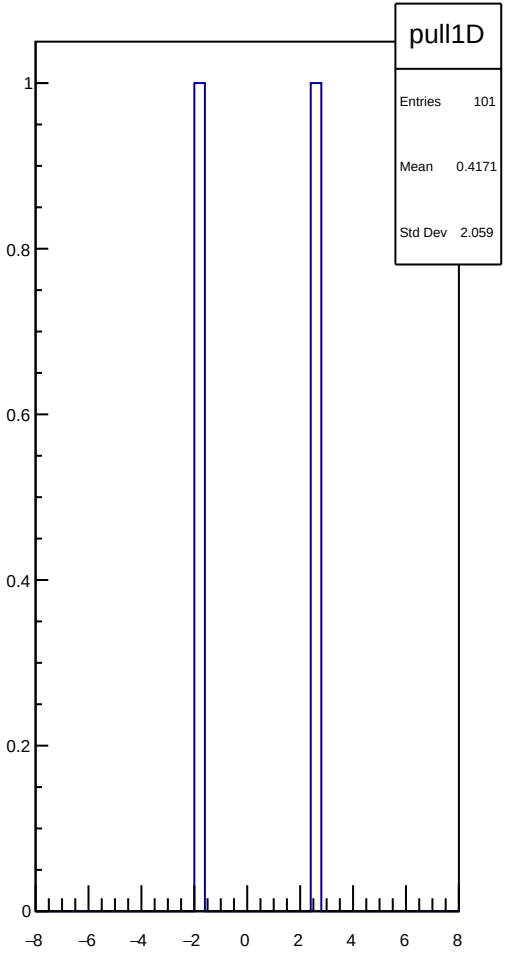

yield_bpm0l01Y_rms vs run
χ² / ndf 5.572e+04 / 100
p0 0.01536 ± 1.122e−05
0.035
0.03
0.025
0.02
0.015
0.01

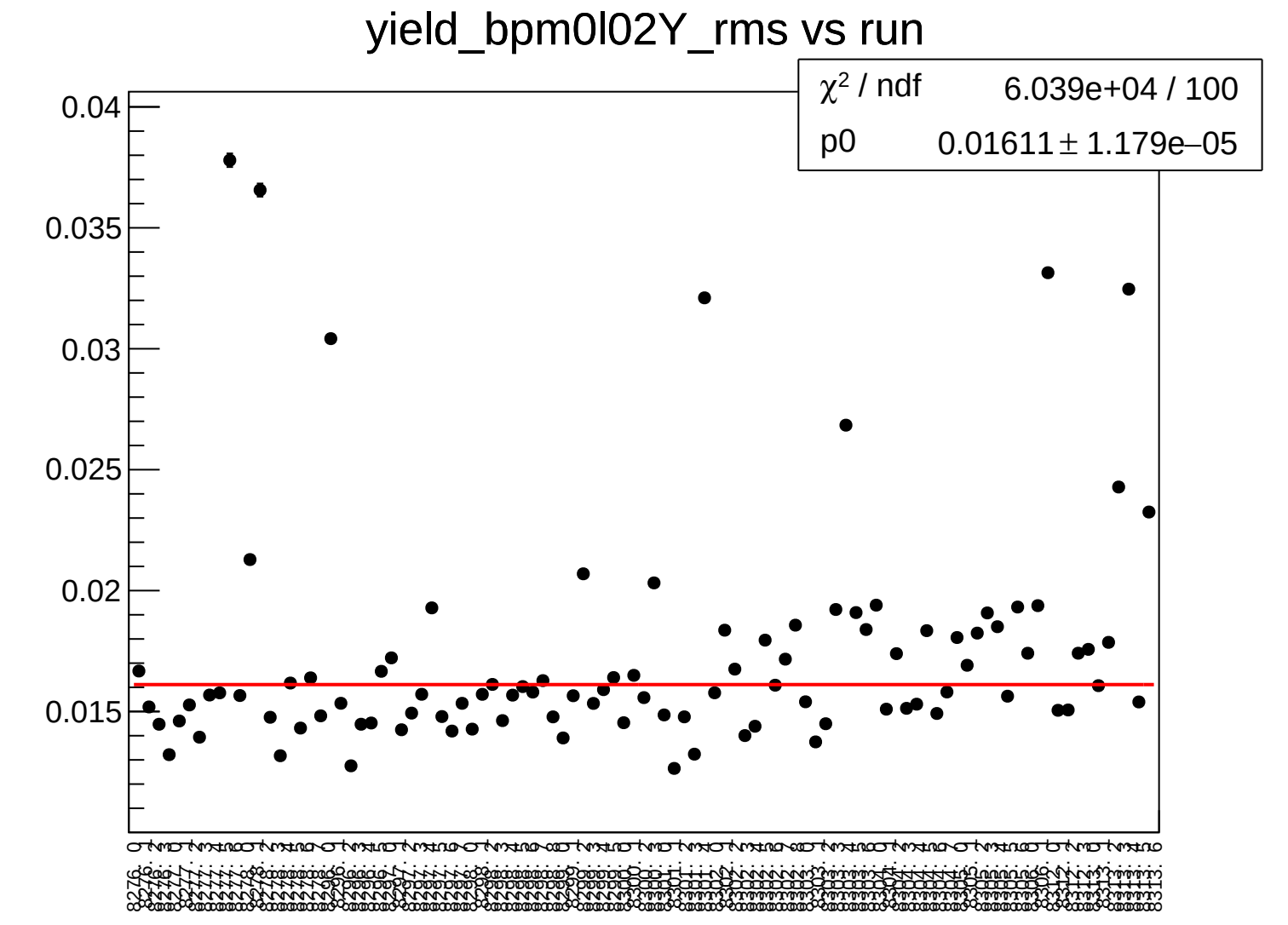

yield_bpm0l02X_mean vs run
χ² / ndf 2.392e+07 / 100
p0 −1.136 ± 2.138e−05
−1
−1.1
−1.2
−1.3
−1.4
pull
Entries 101
Mean −1086
Std Dev 0
500
0
−500
−1000
−1500

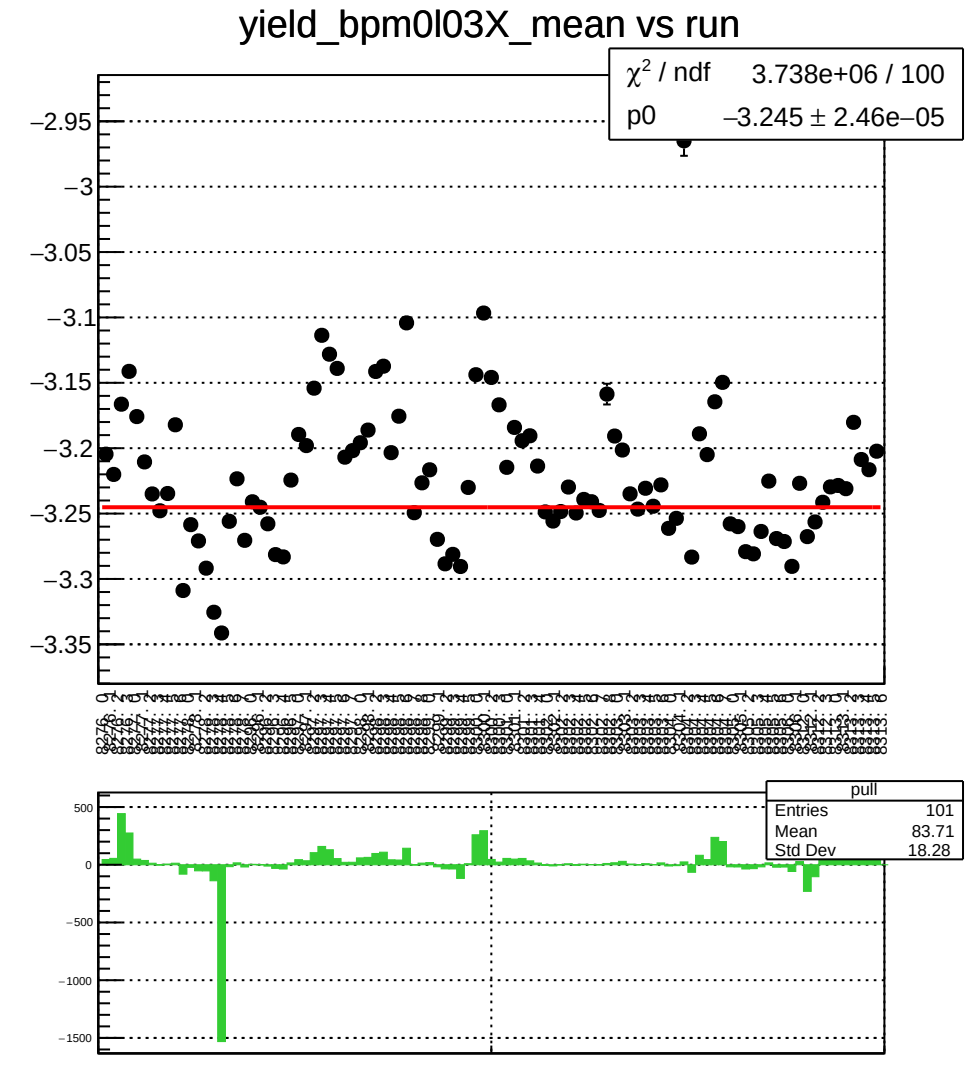

pull1D
Entries 101
Mean −2.255
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

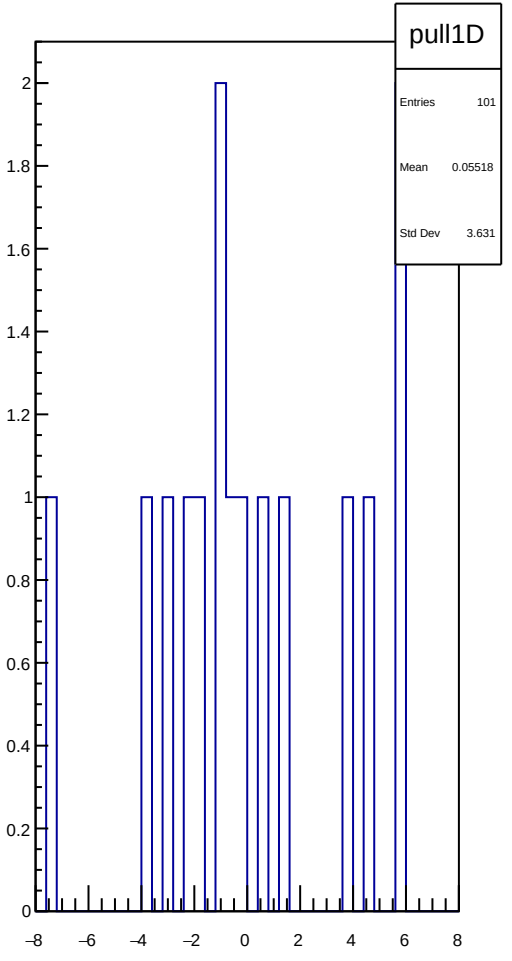

yield_bpm0l02X_rms vs run
χ² / ndf 2.893e+04 / 100
p0 0.02083 ± 1.512e−05
0.038
0.036
0.034
0.032
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016

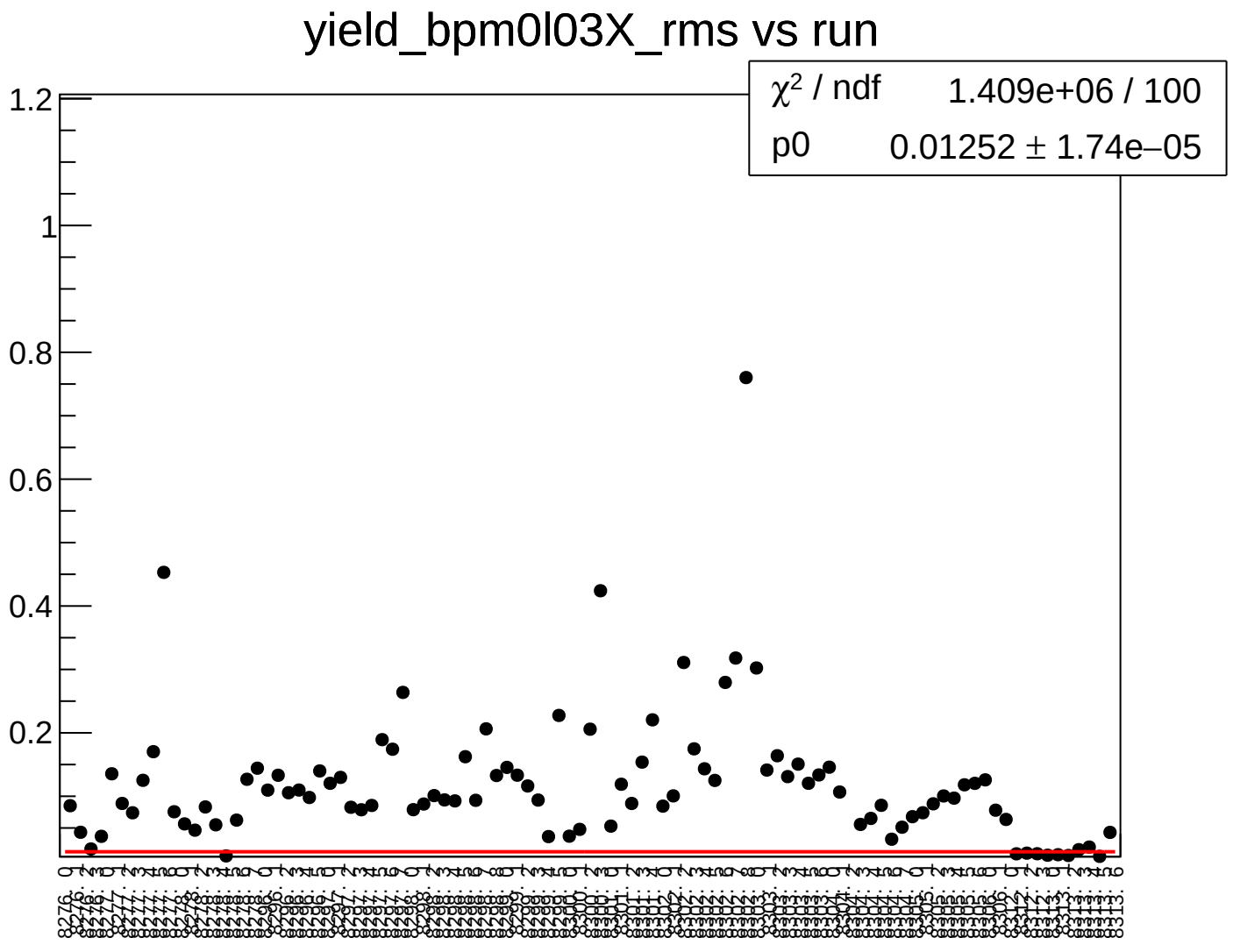

yield_bpm0l02Y_mean vs run
χ² / ndf 5.979e+06 / 100
p0 −1.078 ± 1.668e−05
−0.95
−1
−1.05
−1.1
−1.15
pull
Entries 101
Mean −4.51
Std Dev 154.4
600
400
200
0
−200
−400

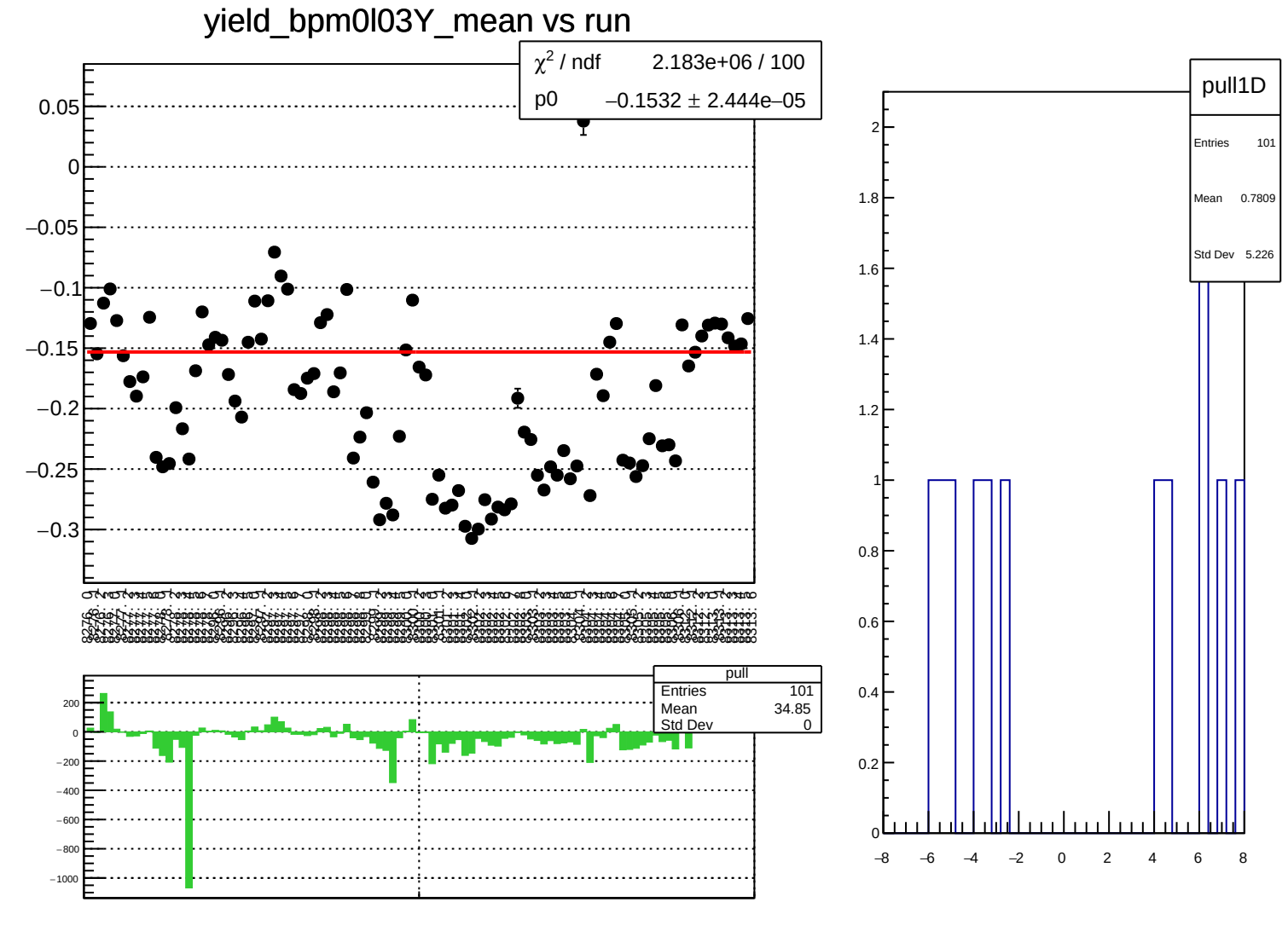

pull1D
Entries 101
Mean 0.4171
Std Dev 2.059
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

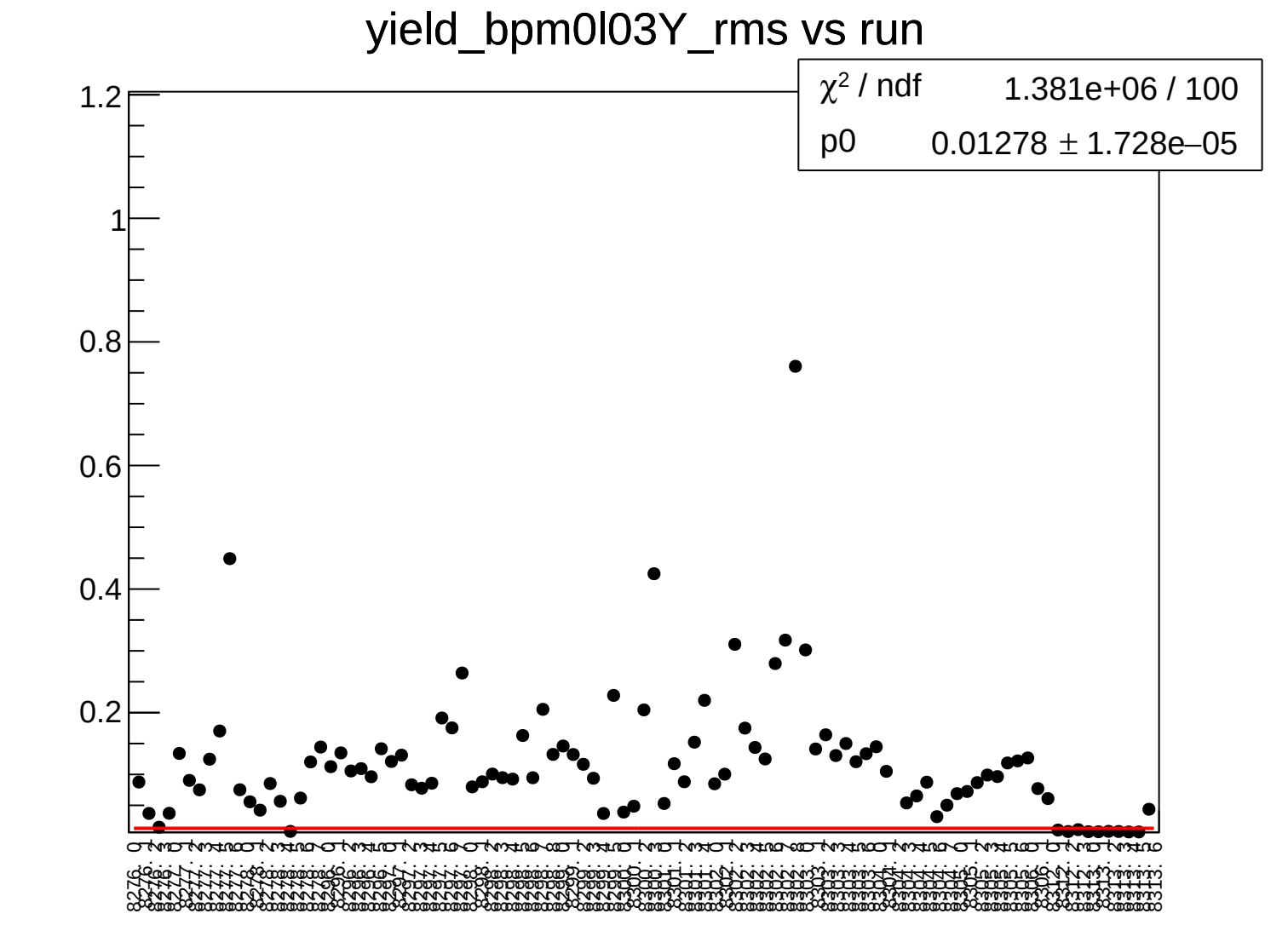

yield_bpm0l02Y_rms vs run
χ² / ndf 6.039e+04 / 100
p0 0.01611 ± 1.179e–05
0.04
0.035
0.03
0.025
0.02
0.015

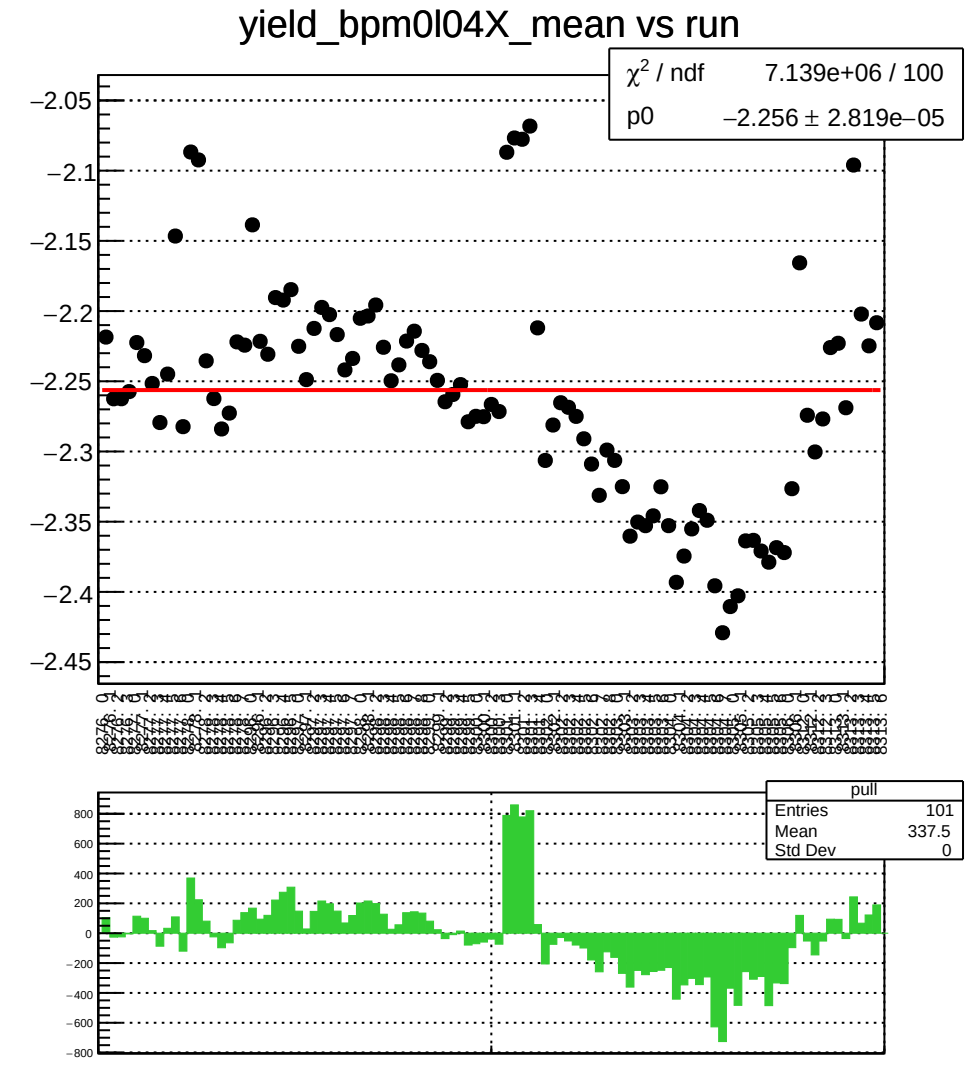

yield_bpm0l03X_mean vs run
χ² / ndf 3.738e+06 / 100
p0 −3.245 ± 2.46e−05
−2.95
−3
−3.05
−3.1
−3.15
−3.2
−3.25
−3.3
−3.35
pull
Entries 101
Mean 83.71
Std Dev 18.28
500
0
−500
−1000
−1500

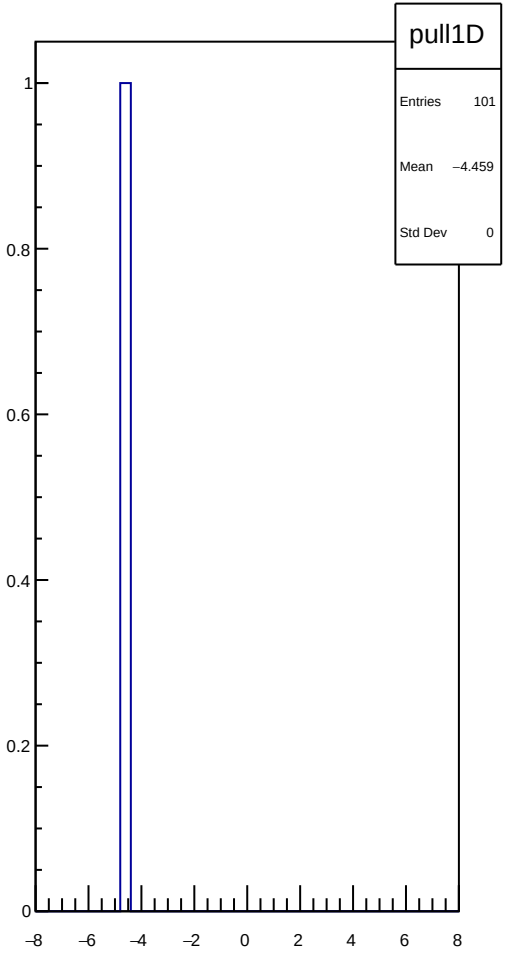

pull1D
Entries 101
Mean 0.05518
Std Dev 3.631
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

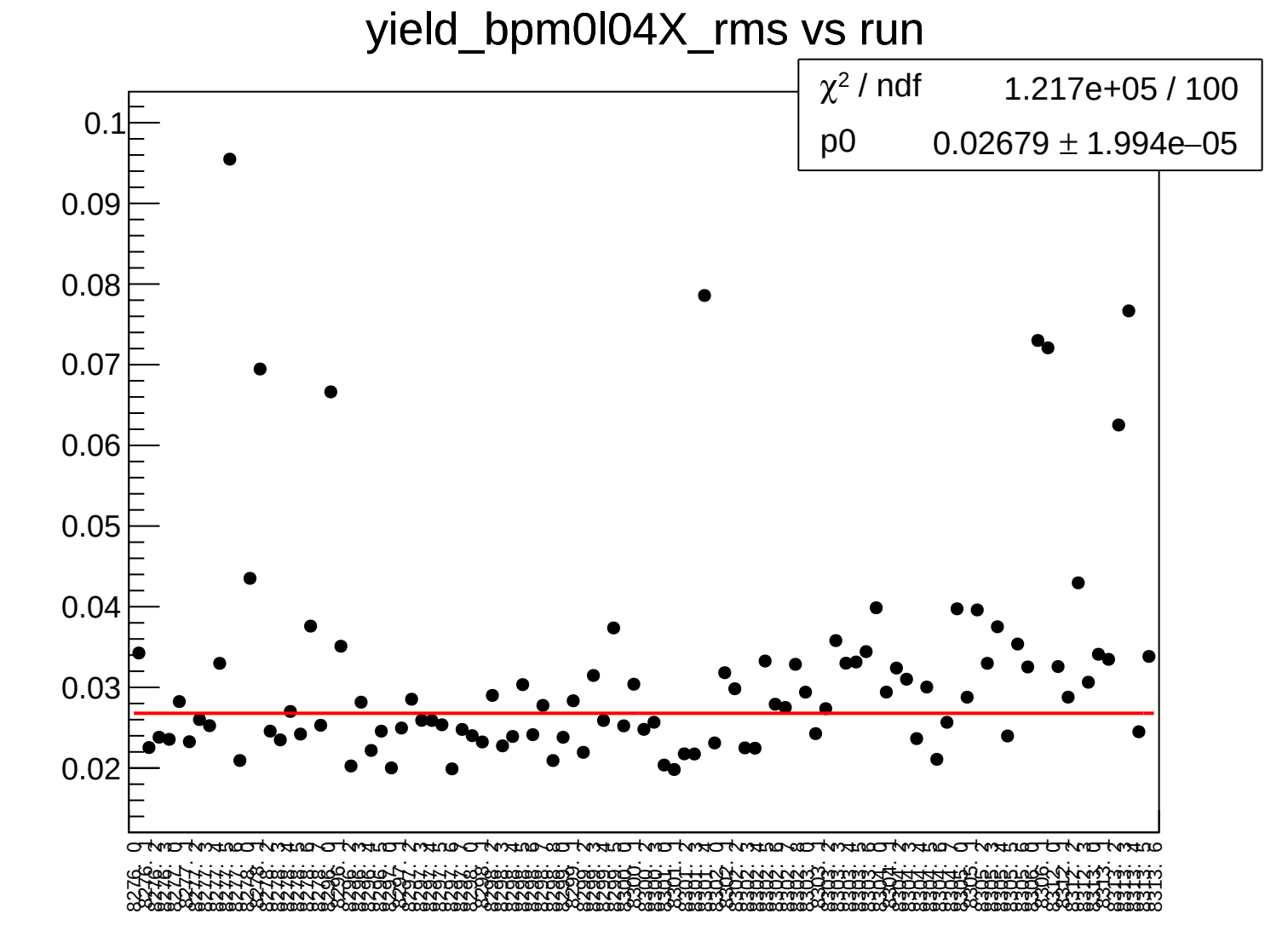

yield_bpm0l03X_rms vs run
χ² / ndf 1.409e+06 / 100
p0 0.01252 ± 1.74e−05
1.2
1
0.8
0.6
0.4
0.2

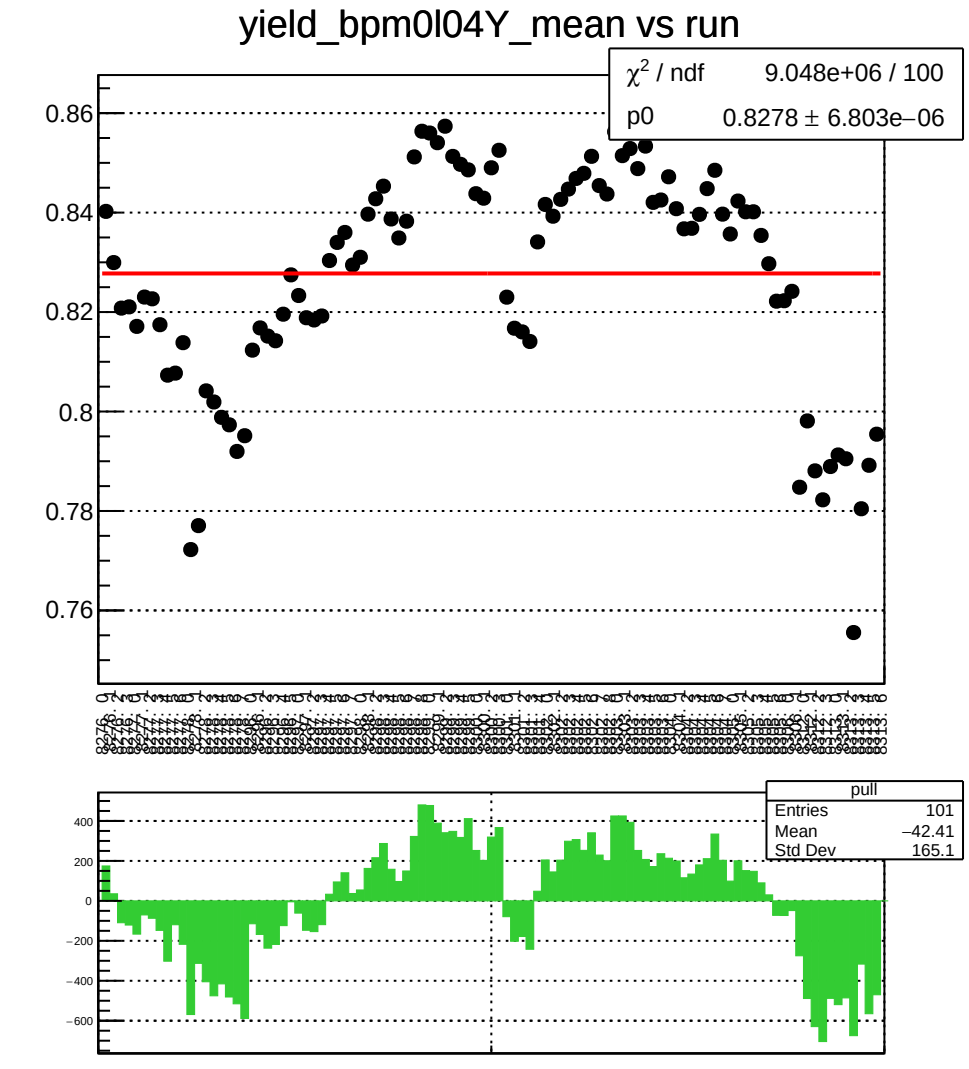

yield_bpm0l03Y_mean vs run
χ² / ndf 2.183e+06 / 100
p0 −0.1532 ± 2.444e−05
pull
Entries 101
Mean 34.85
Std Dev 0
pull1D
Entries 101
Mean 0.7809
Std Dev 5.226

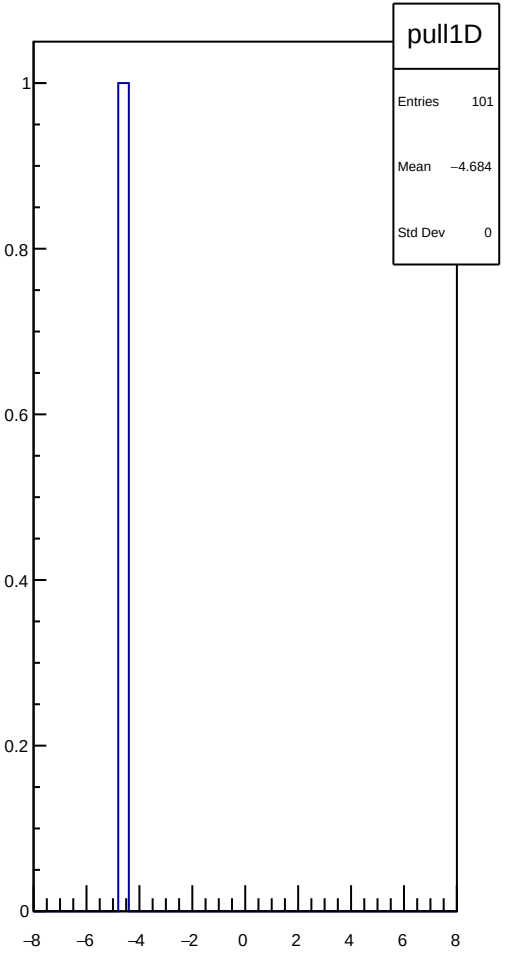

yield_bpm0l03Y_rms vs run
χ² / ndf 1.381e+06 / 100
p0 0.01278 ± 1.728e−05
1.2
1
0.8
0.6
0.4
0.2

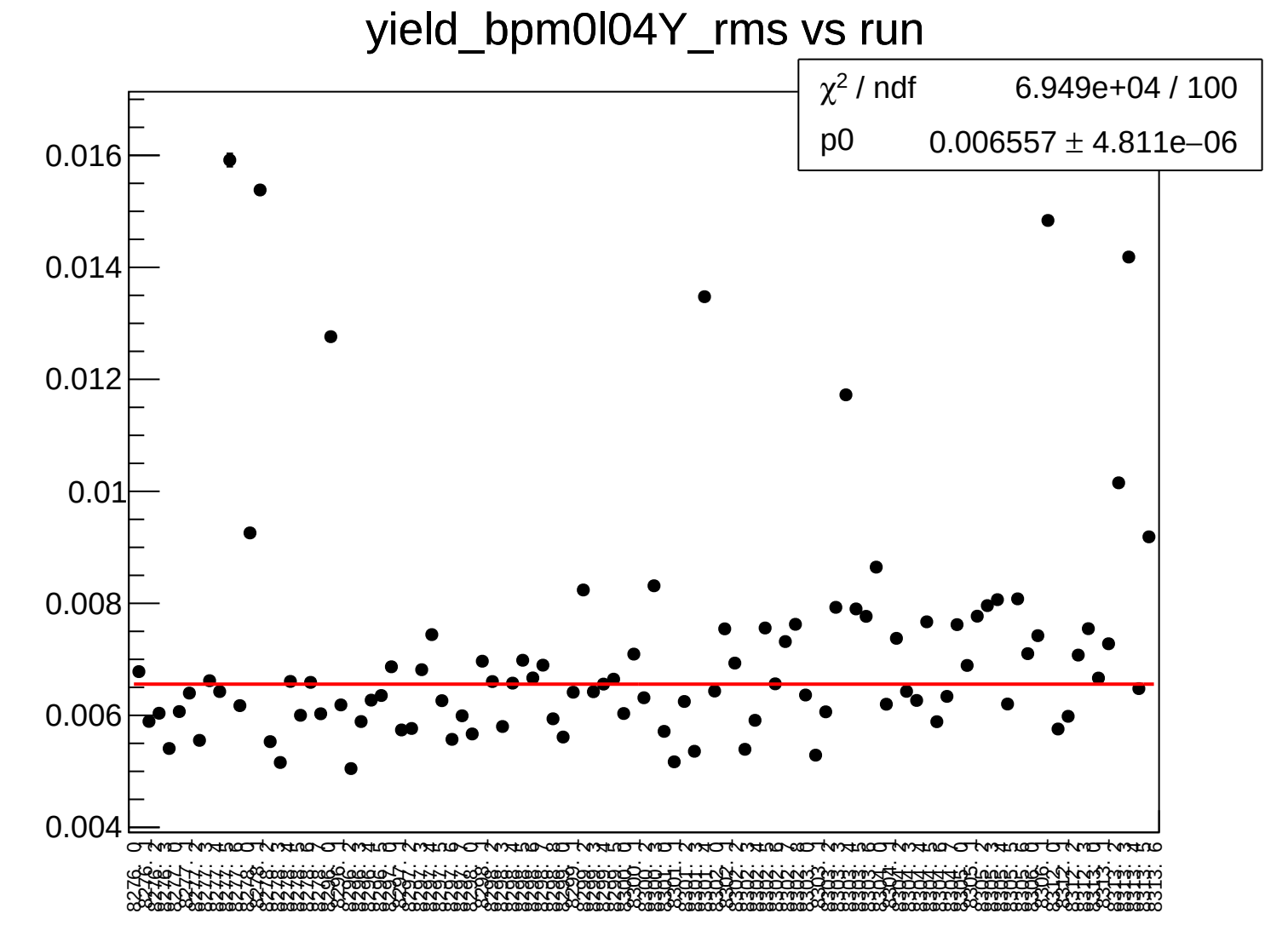

yield_bpm0l04X_mean vs run
χ² / ndf 7.139e+06 / 100
p0 −2.256 ± 2.819e−05
−2.05
−2.1
−2.15
−2.2
−2.25
−2.3
−2.35
−2.4
−2.45
pull
Entries 101
Mean 337.5
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800

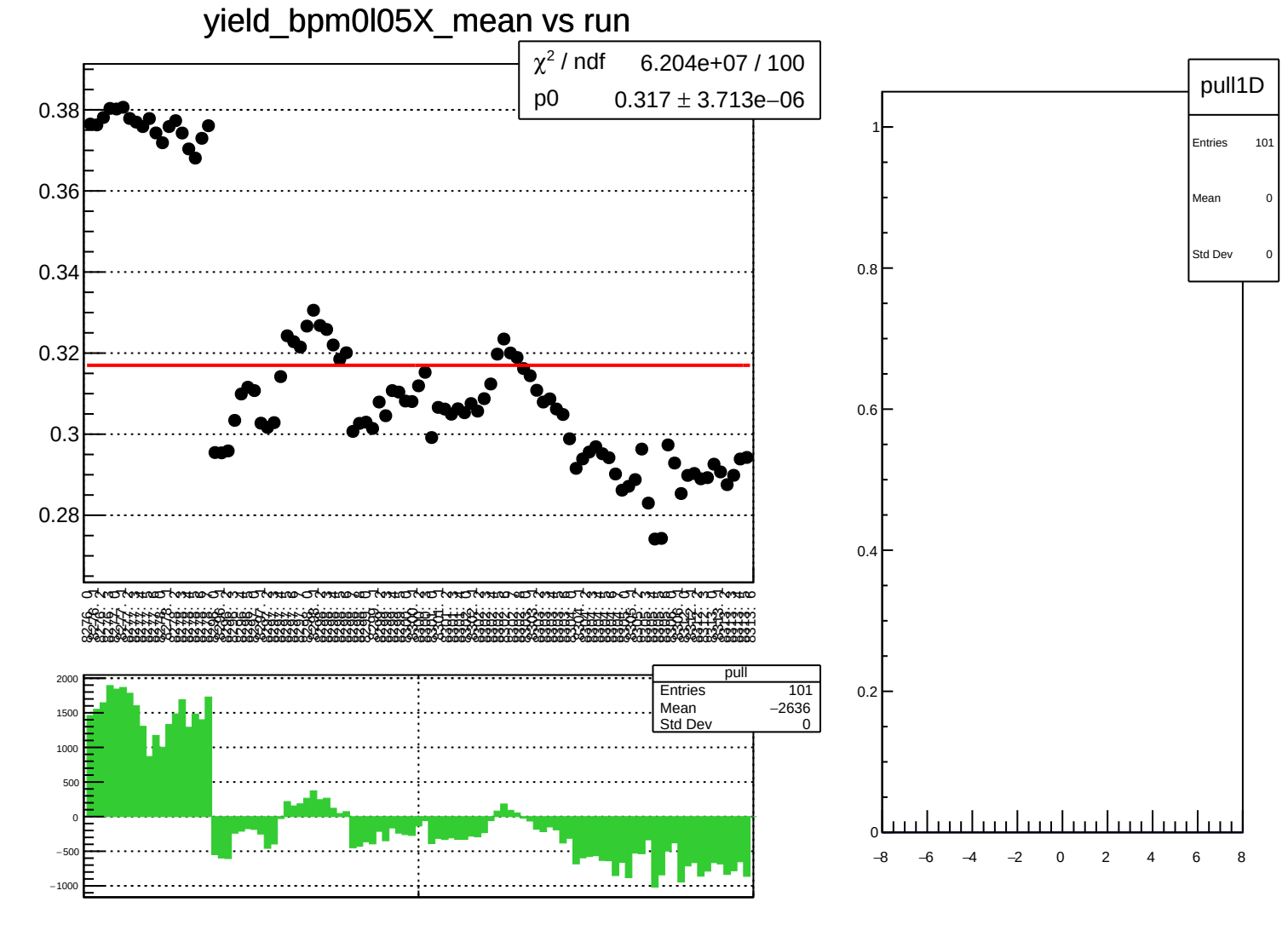

pull1D
Entries 101
Mean −4.459
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

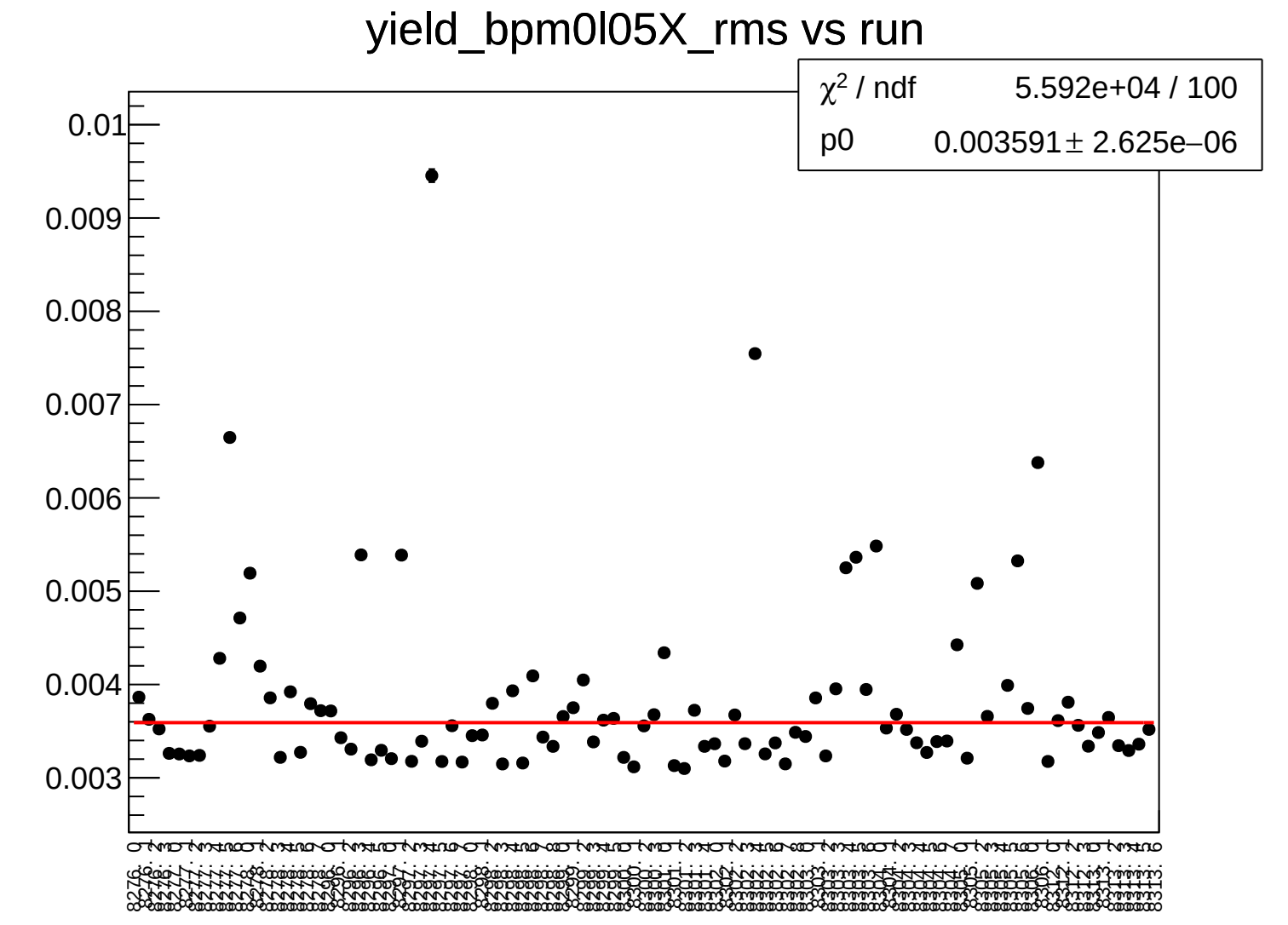

yield_bpm0l04X_rms vs run
χ² / ndf 1.217e+05 / 100
p0 0.02679 ± 1.994e−05
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02

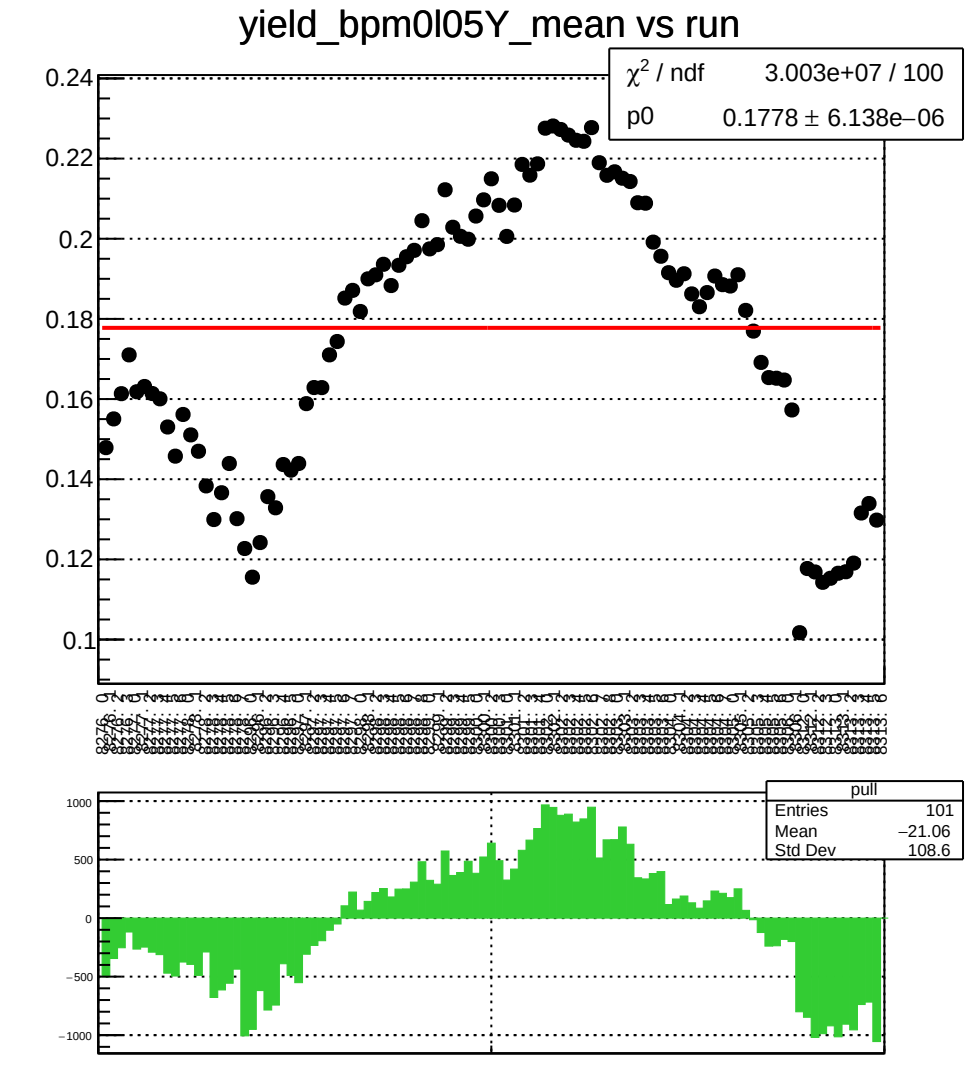

yield_bpm0l04Y_mean vs run
χ² / ndf 9.048e+06 / 100
p0 0.8278 ± 6.803e−06
0.86
0.84
0.82
0.8
0.78
0.76
pull
Entries 101
Mean −42.41
Std Dev 165.1
400
200
0
−200
−400
−600

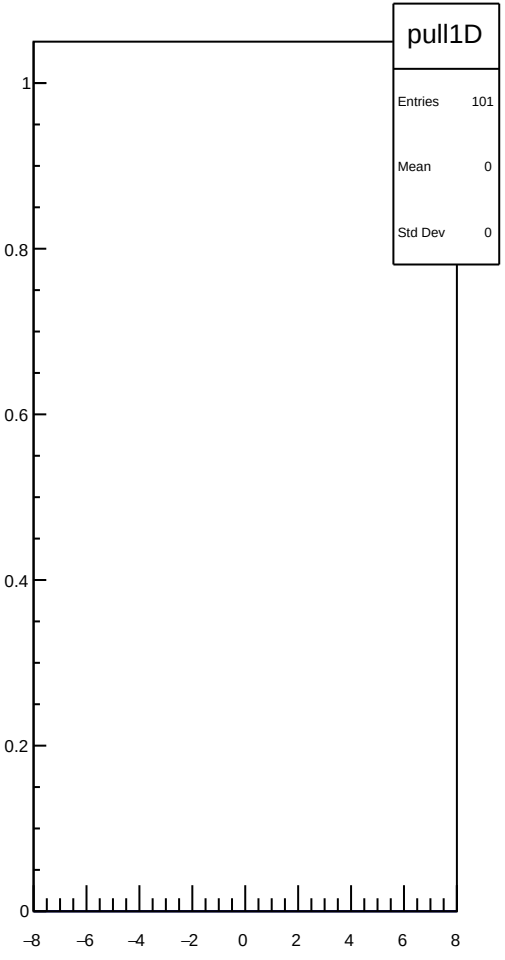

pull1D
Entries 101
Mean −4.684
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

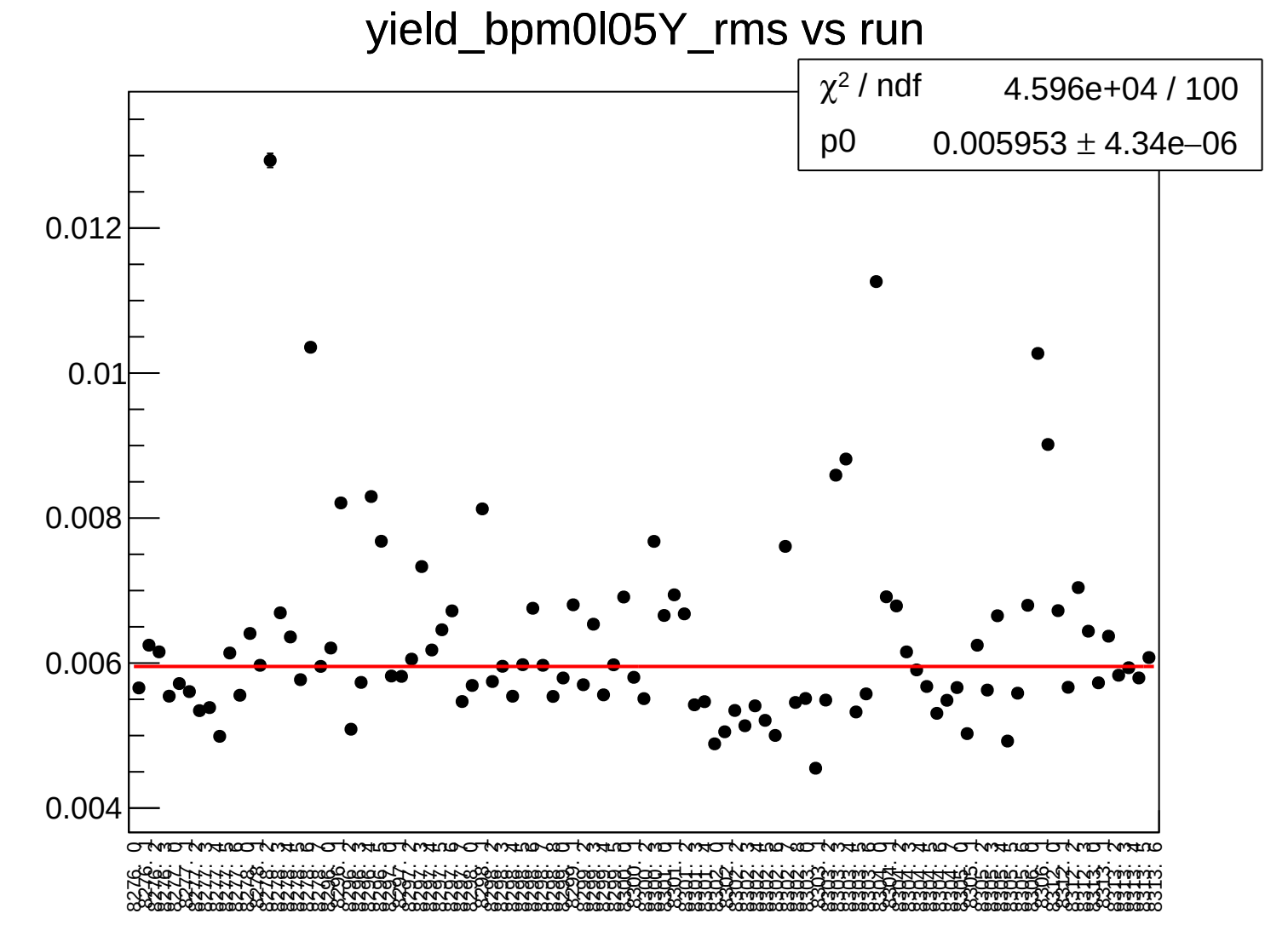

yield_bpm0l04Y_rms vs run
χ^2 / ndf 6.949e+04 / 100
p0 0.006557 ± 4.811e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

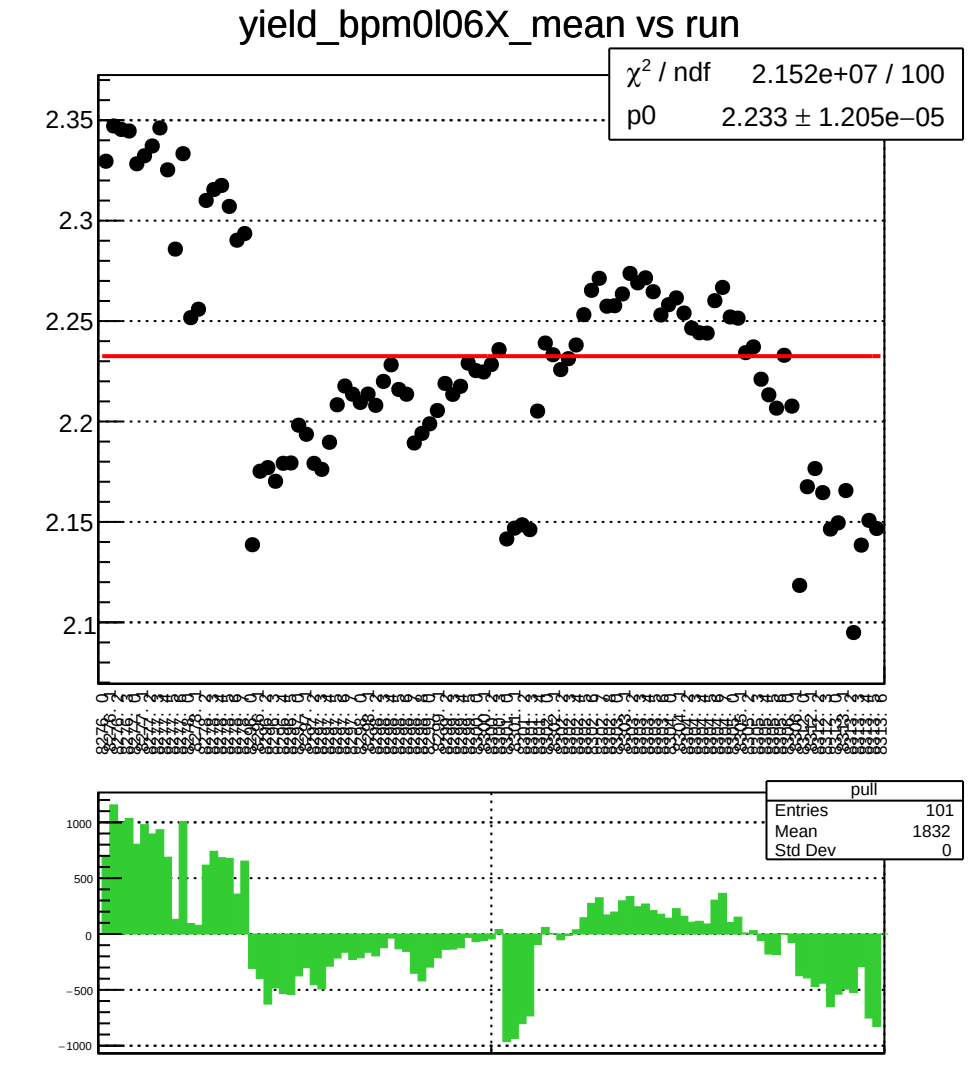

yield_bpm0l05X_mean vs run
χ² / ndf 6.204e+07 / 100
p0 0.317 ± 3.713e−06
0.38
0.36
0.34
0.32
0.3
0.28
pull
Entries 101
Mean −2636
Std Dev 0
2000
1500
1000
500
0
−500
−1000
pull1D
Entries 101
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

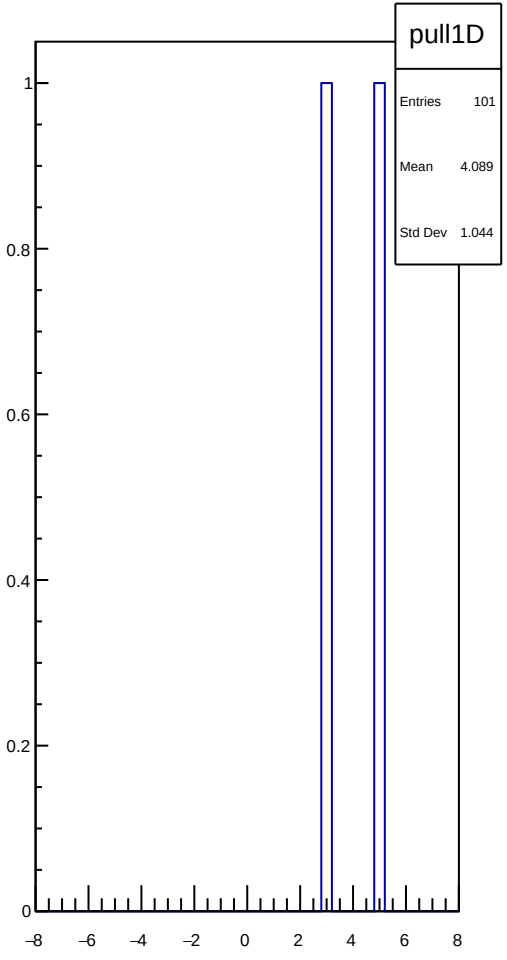

yield_bpm0l05X_rms vs run
χ^2 / ndf 5.592e+04 / 100
p0 0.003591 ± 2.625e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

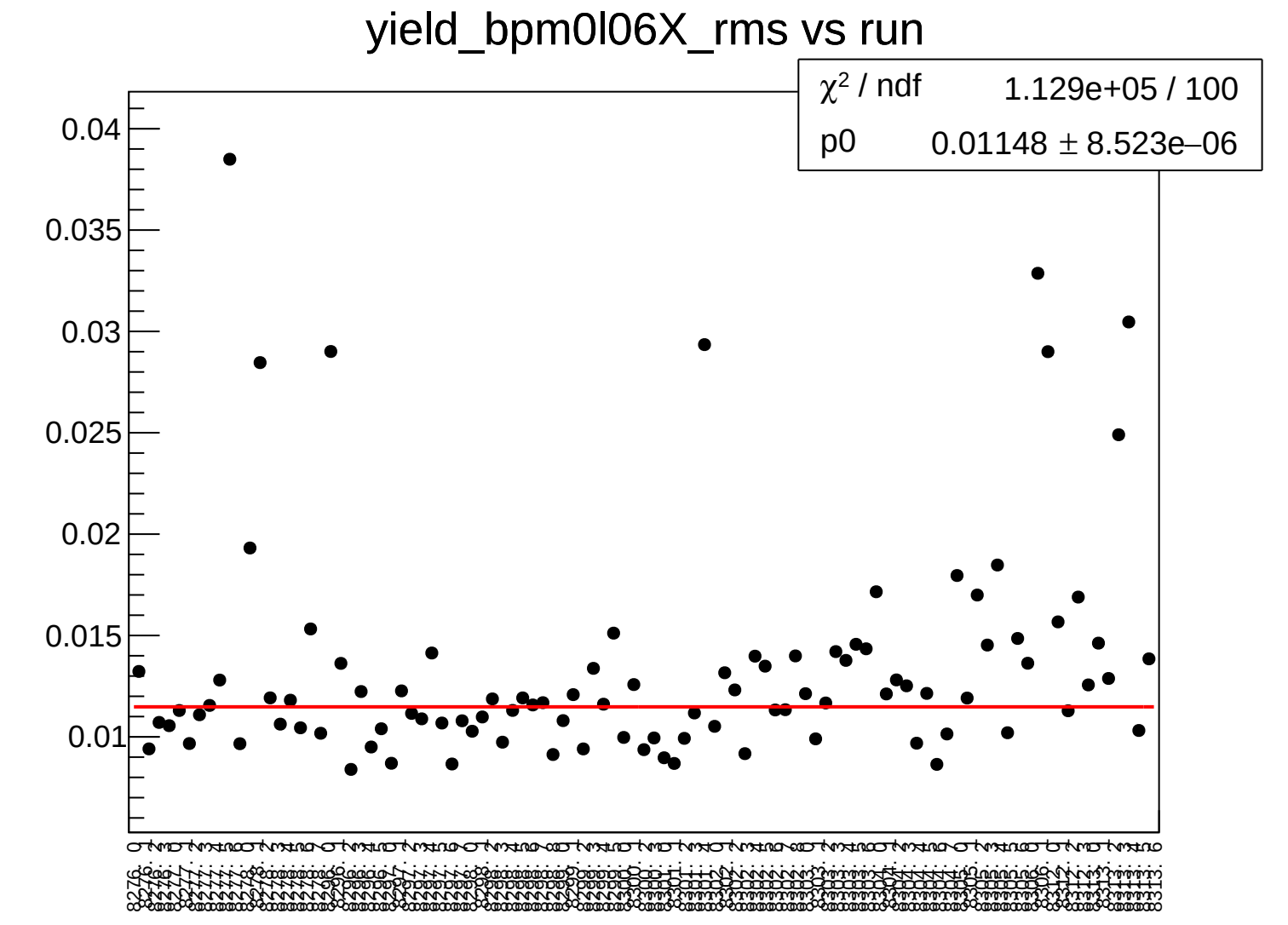

yield_bpm0l05Y_mean vs run
χ² / ndf 3.003e+07 / 100
p0 0.1778 ± 6.138e−06
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
pull
Entries 101
Mean −21.06
Std Dev 108.6
1000
500
0
−500
−1000

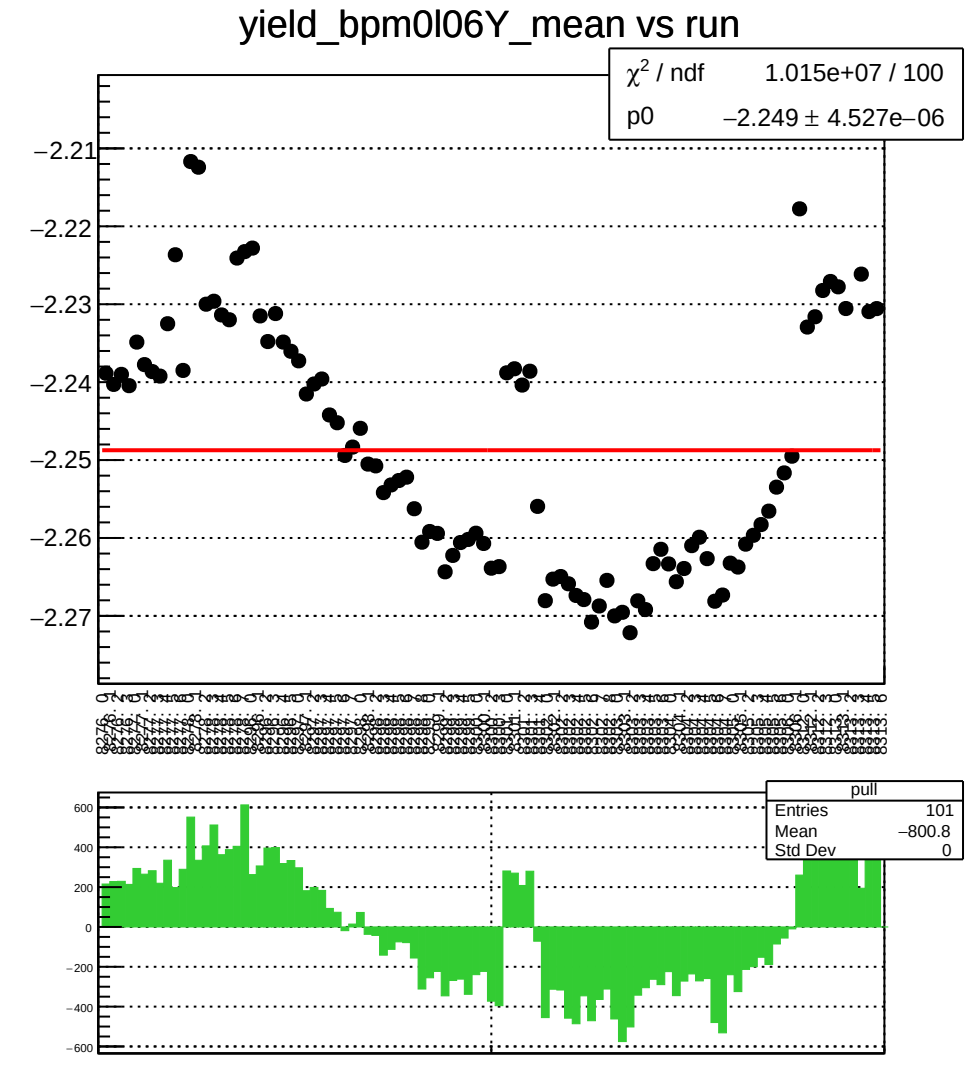

pull1D
Entries 101
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

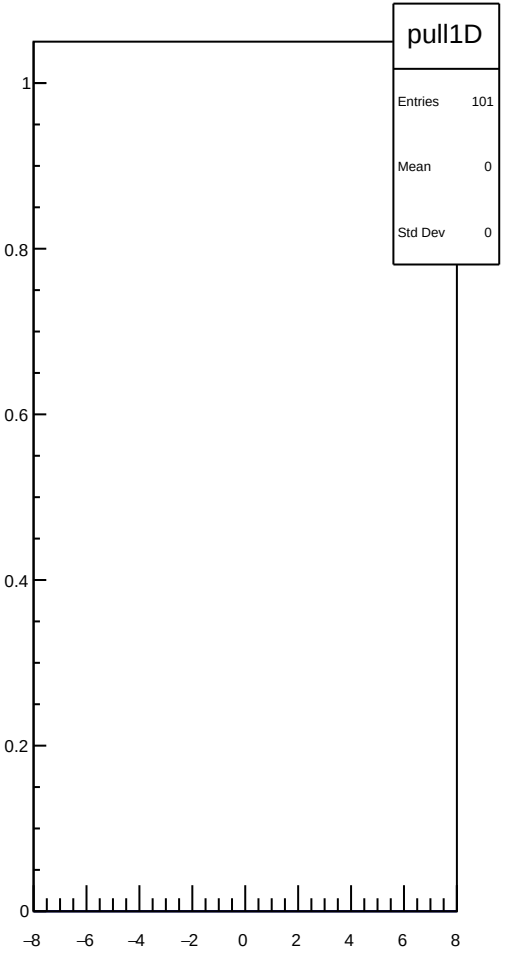

yield_bpm0l05Y_rms vs run
χ² / ndf 4.596e+04 / 100
p0 0.005953 ± 4.34e−06
0.012
0.01
0.008
0.006
0.004

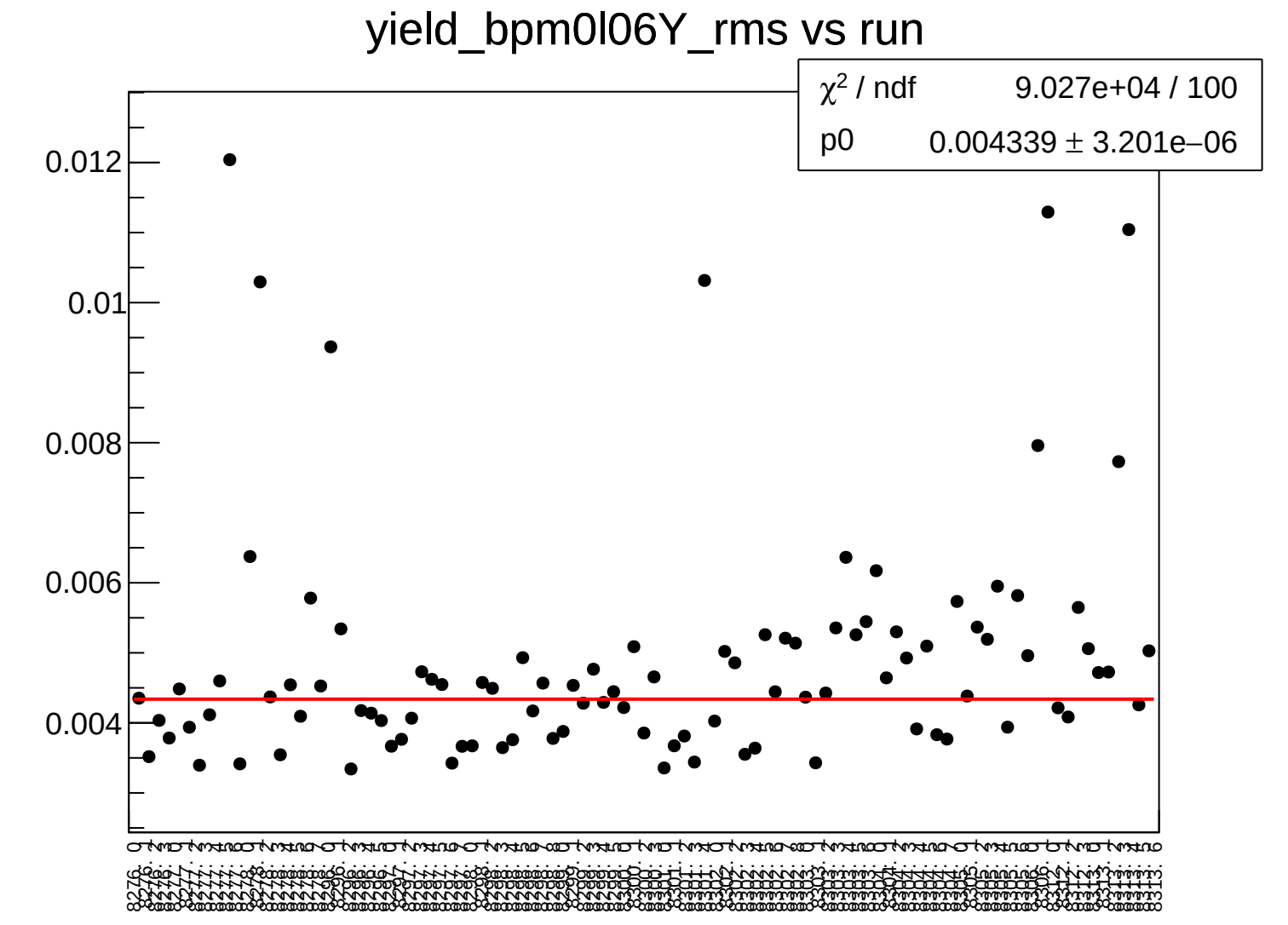

yield_bpm0l06X_mean vs run
χ² / ndf 2.152e+07 / 100
p0 2.233 ± 1.205e−05
2.35
2.3
2.25
2.2
2.15
2.1
pull
Entries 101
Mean 1832
Std Dev 0
1000
500
0
−500
−1000

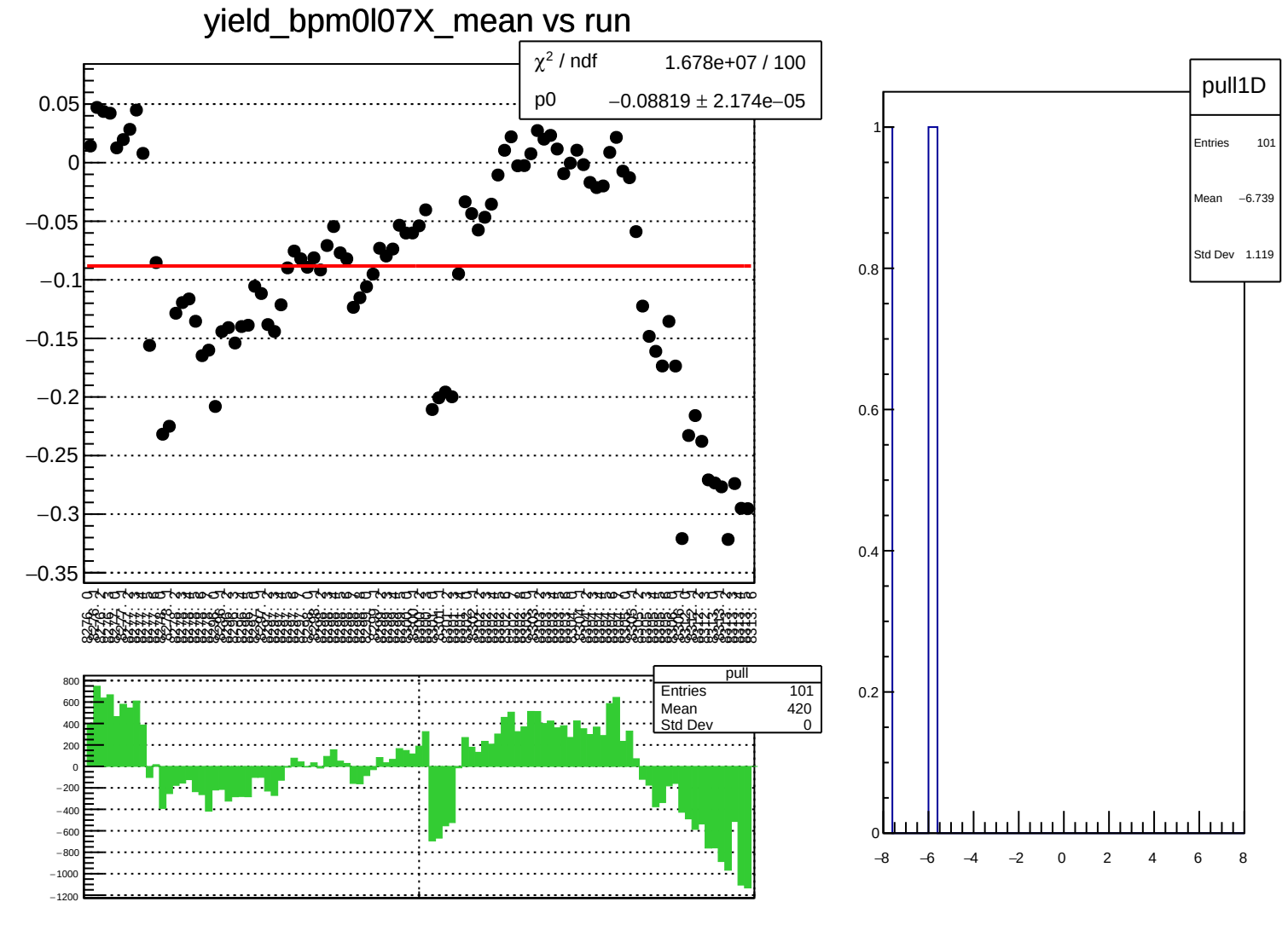

pull1D
Entries 101
Mean 4.089
Std Dev 1.044
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

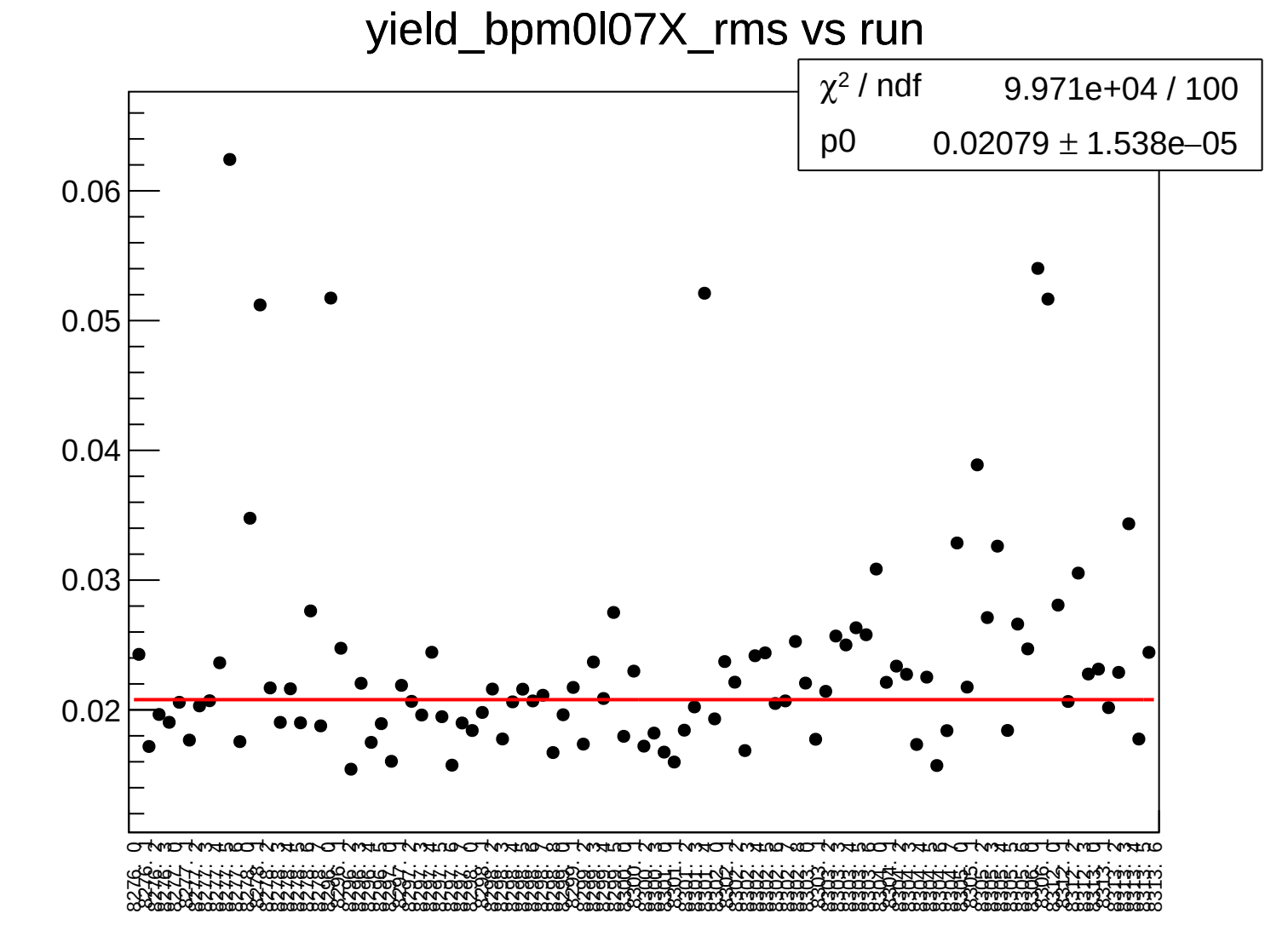

yield_bpm0l06X_rms vs run
χ² / ndf 1.129e+05 / 100
p0 0.01148 ± 8.523e–06
0.04
0.035
0.03
0.025
0.02
0.015
0.01

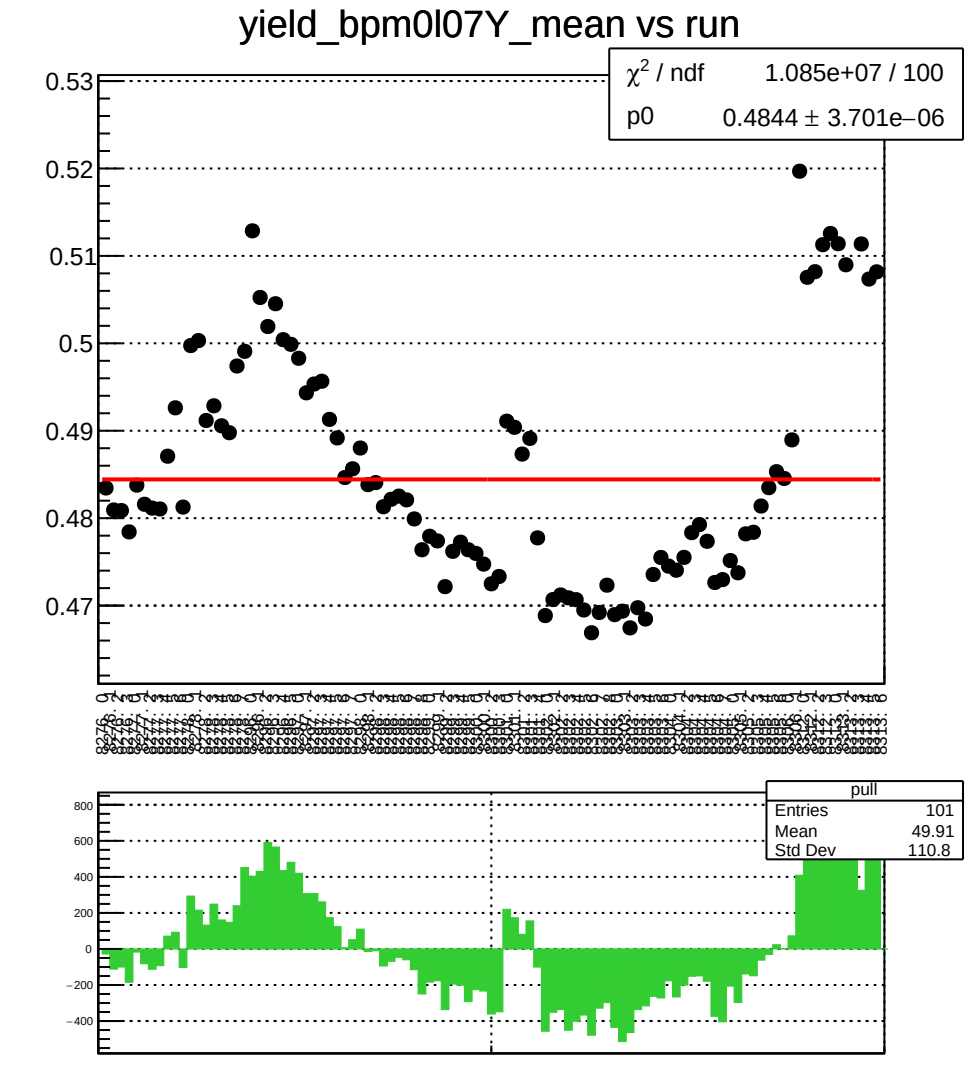

yield_bpm0l06Y_mean vs run
χ² / ndf 1.015e+07 / 100
p0 −2.249 ± 4.527e−06
−2.21
−2.22
−2.23
−2.24
−2.25
−2.26
−2.27
pull
Entries 101
Mean −800.8
Std Dev 0
600
400
200
0
−200
−400
−600

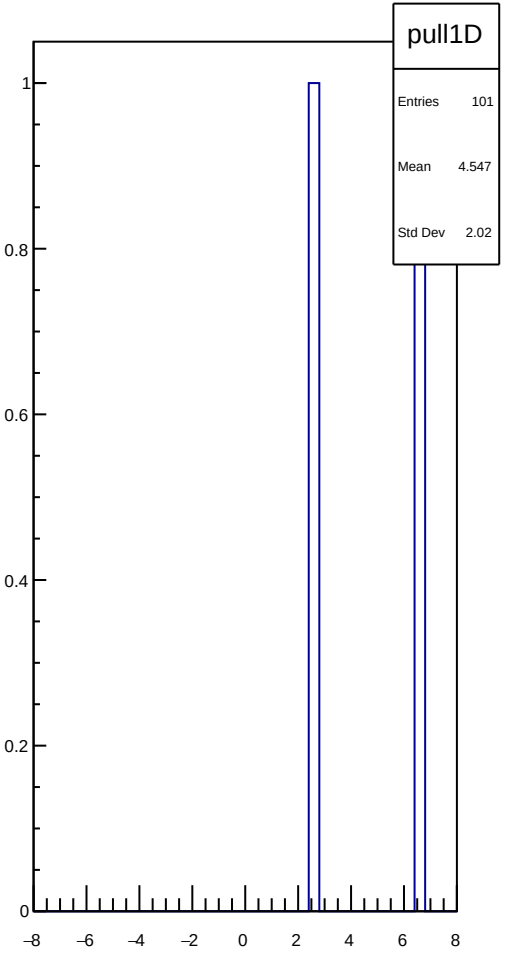

pull1D
Entries 101
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

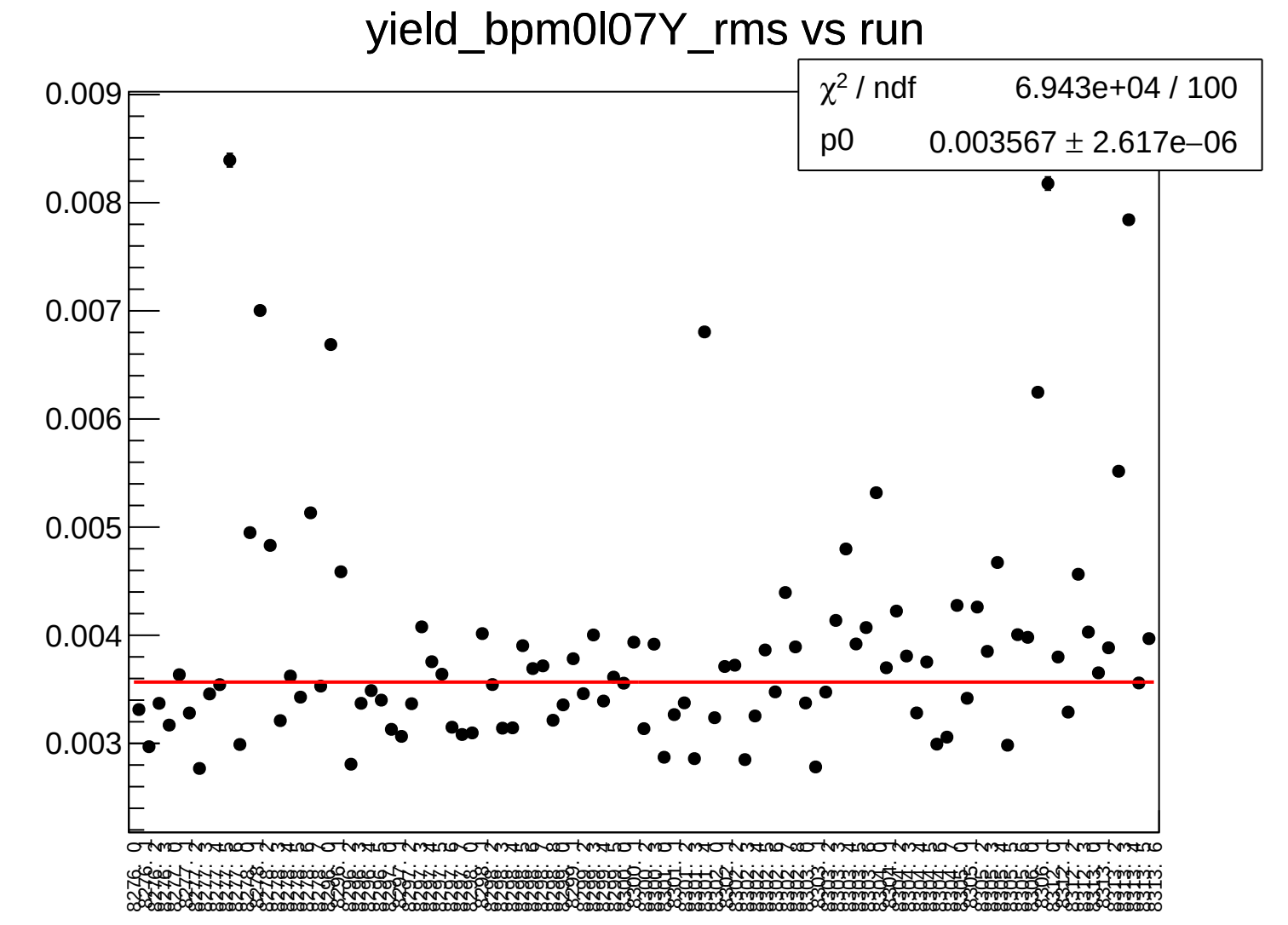

yield_bpm0l06Y_rms vs run
χ² / ndf 9.027e+04 / 100
p0 0.004339 ± 3.201e−06
0.012
0.01
0.008
0.006
0.004

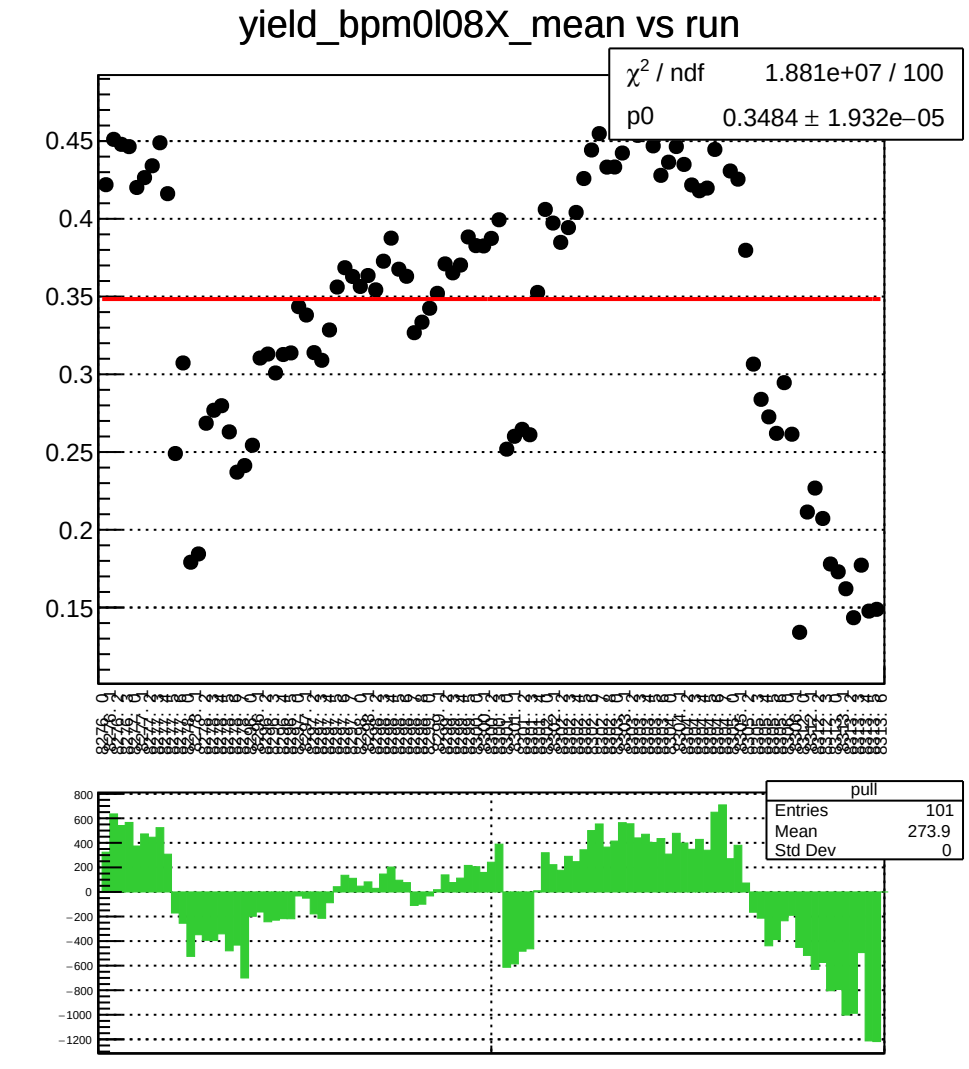

yield_bpm0l07X_mean vs run
χ² / ndf 1.678e+07 / 100
p0 −0.08819 ± 2.174e−05
pull
Entries 101
Mean 420
Std Dev 0
pull1D
Entries 101
Mean −6.739
Std Dev 1.119

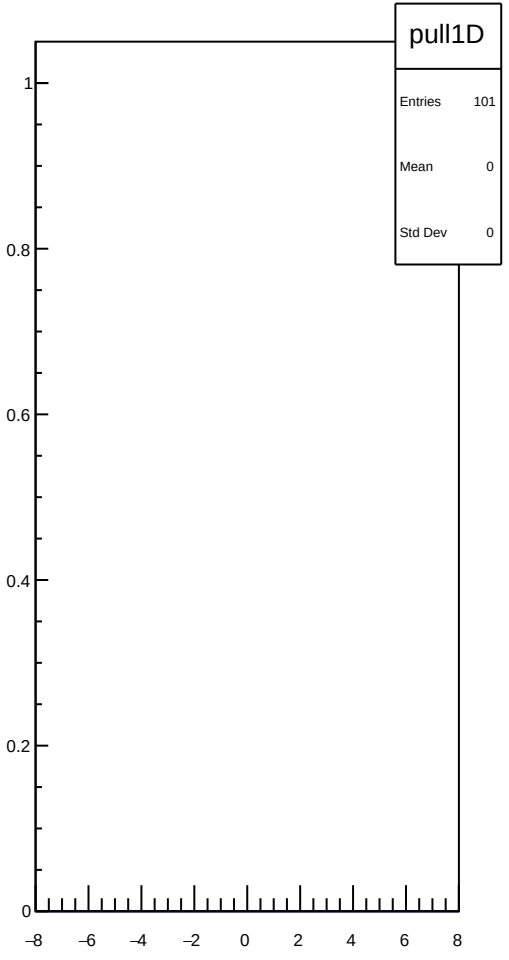

yield_bpm0l07X_rms vs run
χ² / ndf 9.971e+04 / 100
p0 0.02079 ± 1.538e−05
0.06
0.05
0.04
0.03
0.02

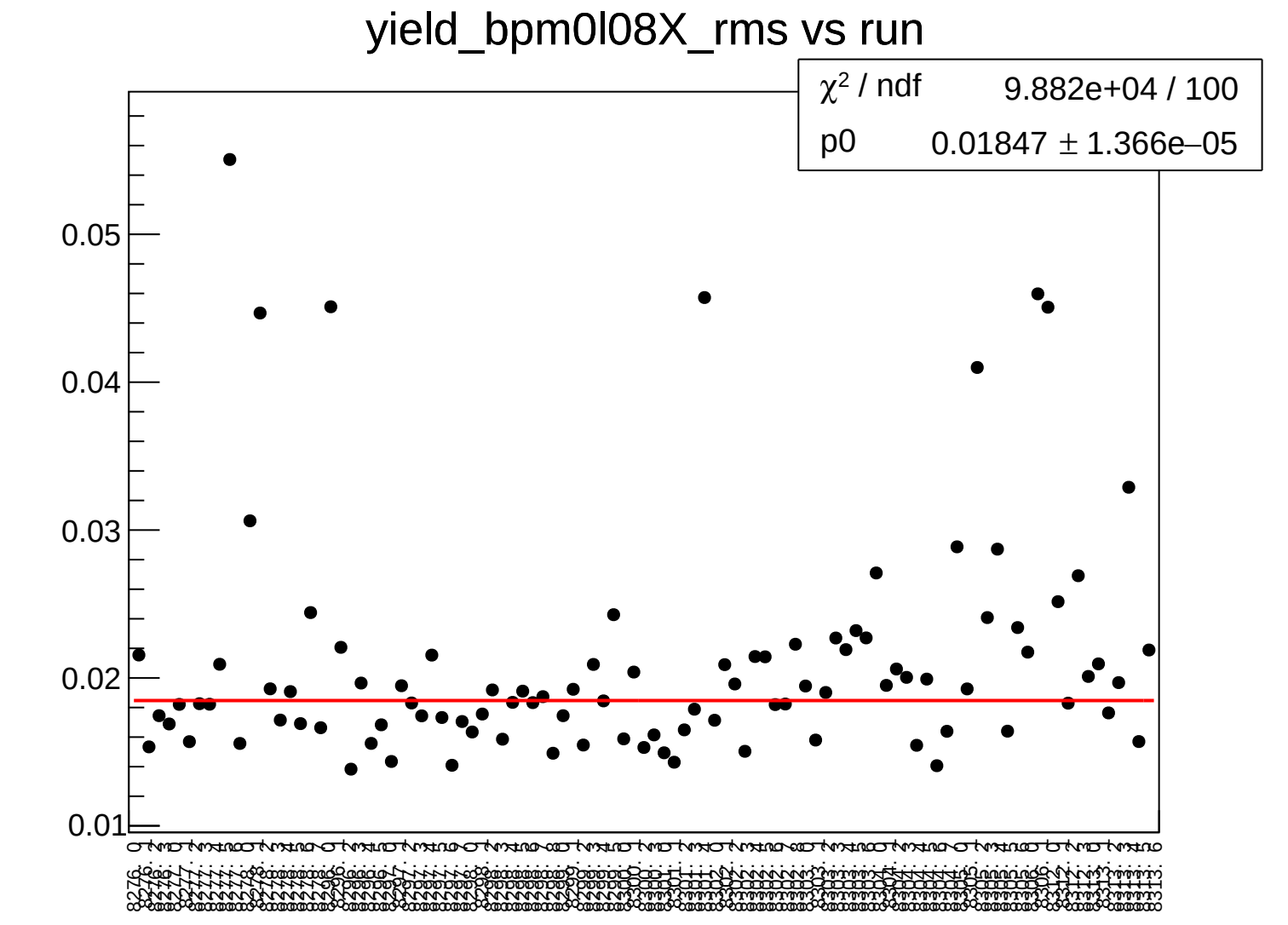

yield_bpm0l07Y_mean vs run
χ² / ndf 1.085e+07 / 100
p0 0.4844 ± 3.701e−06
0.53
0.52
0.51
0.5
0.49
0.48
0.47
pull
Entries 101
Mean 49.91
Std Dev 110.8
800
600
400
200
0
−200
−400

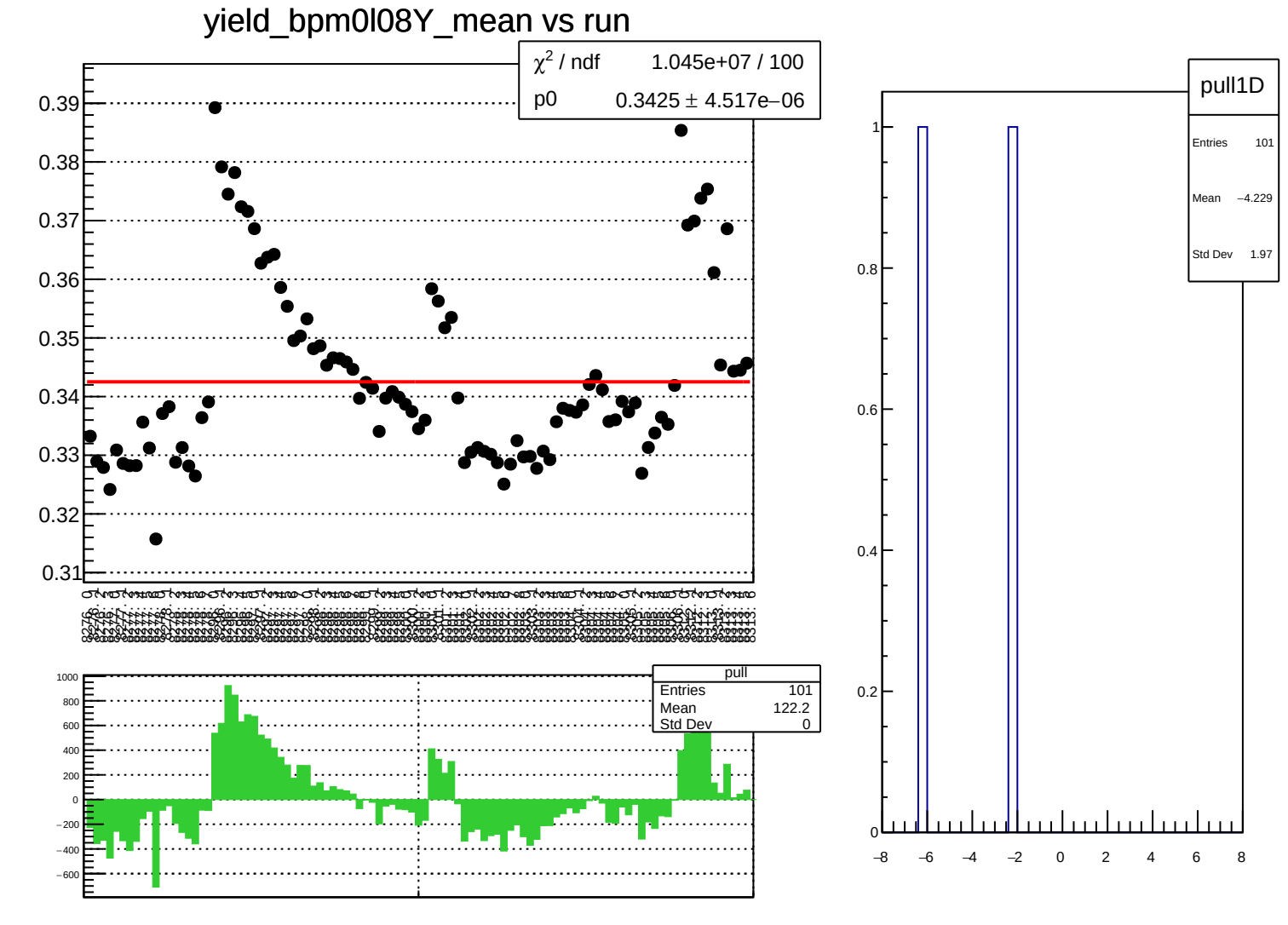

pull1D
Entries 101
Mean 4.547
Std Dev 2.02
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

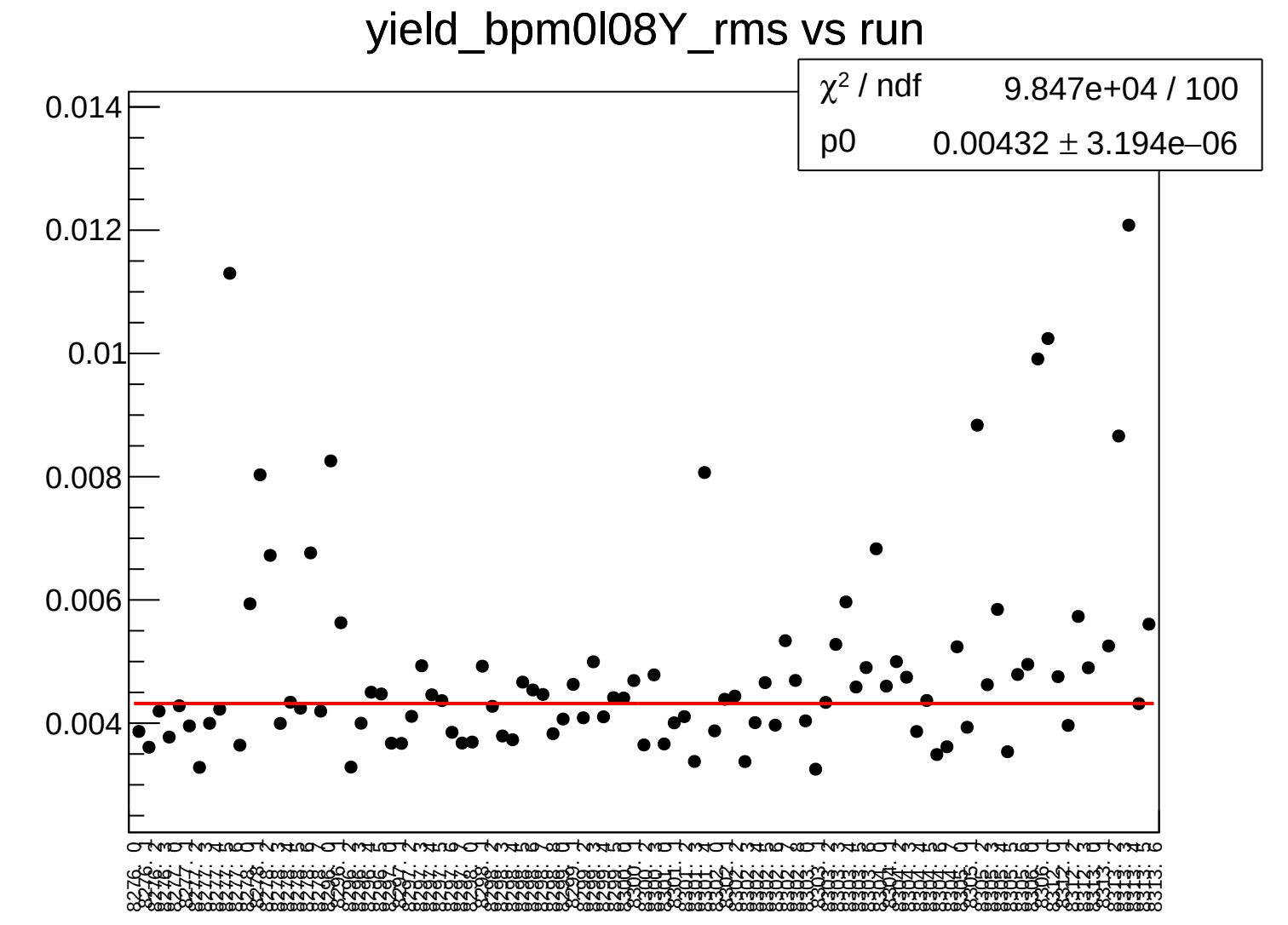

yield_bpm0l07Y_rms vs run
χ² / ndf 6.943e+04 / 100
p0 0.003567 ± 2.617e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003

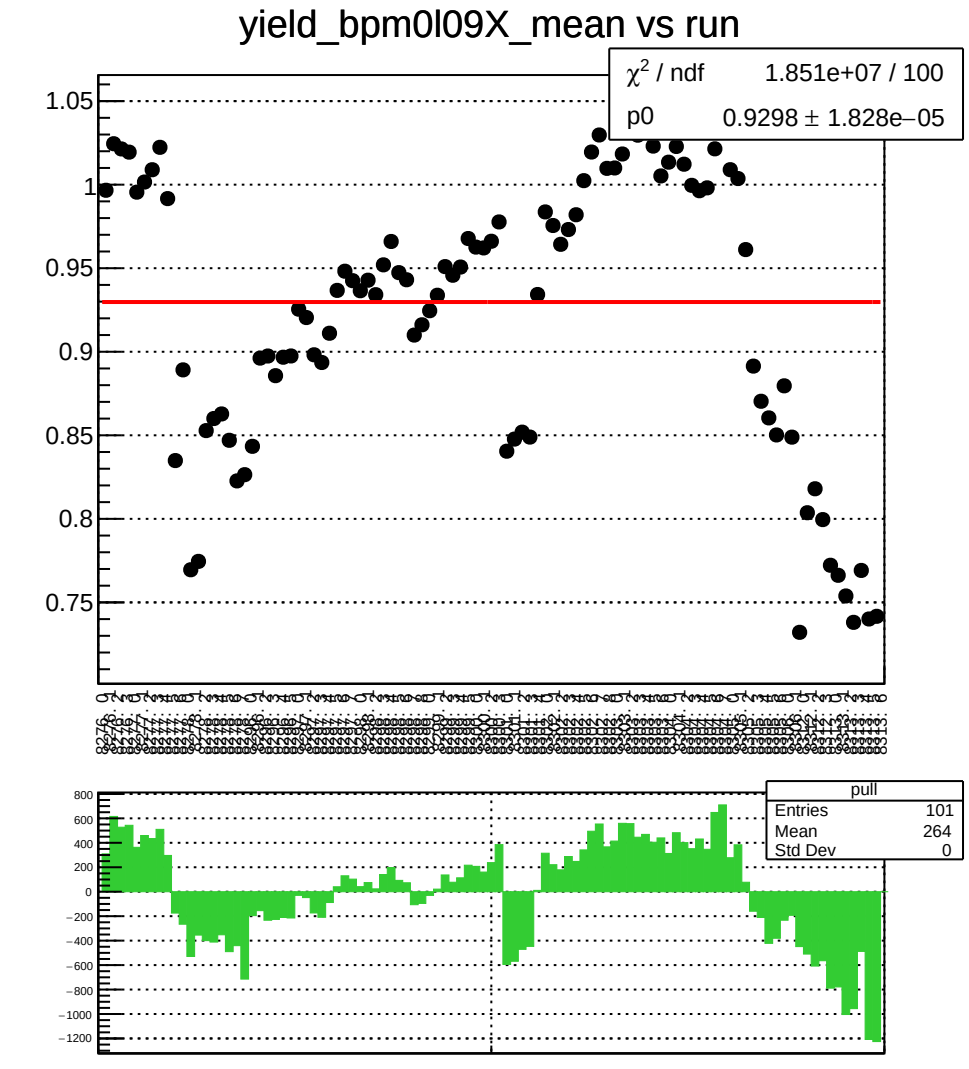

yield_bpm0l08X_mean vs run
χ² / ndf 1.881e+07 / 100
p0 0.3484 ± 1.932e−05
0.45
0.4
0.35
0.3
0.25
0.2
0.15
pull
Entries 101
Mean 273.9
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
−1000
−1200

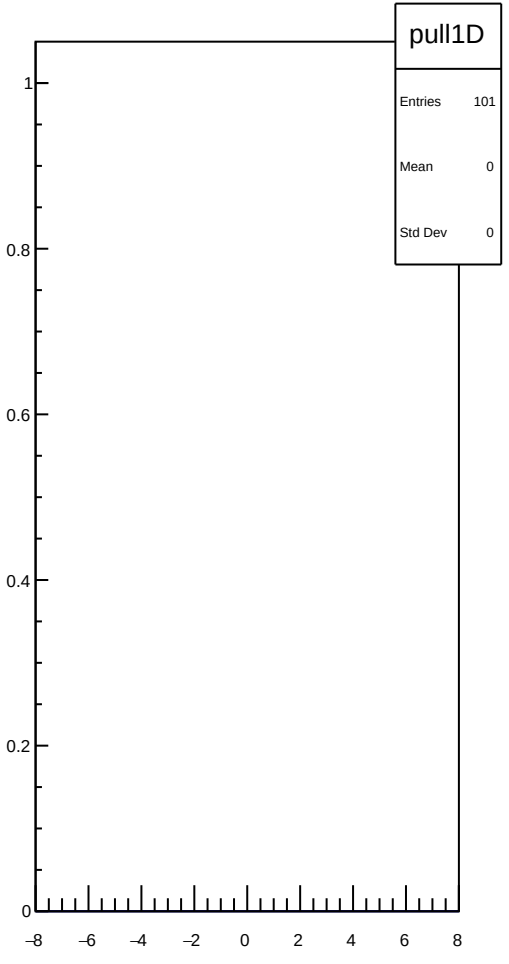

pull1D
Entries 101
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

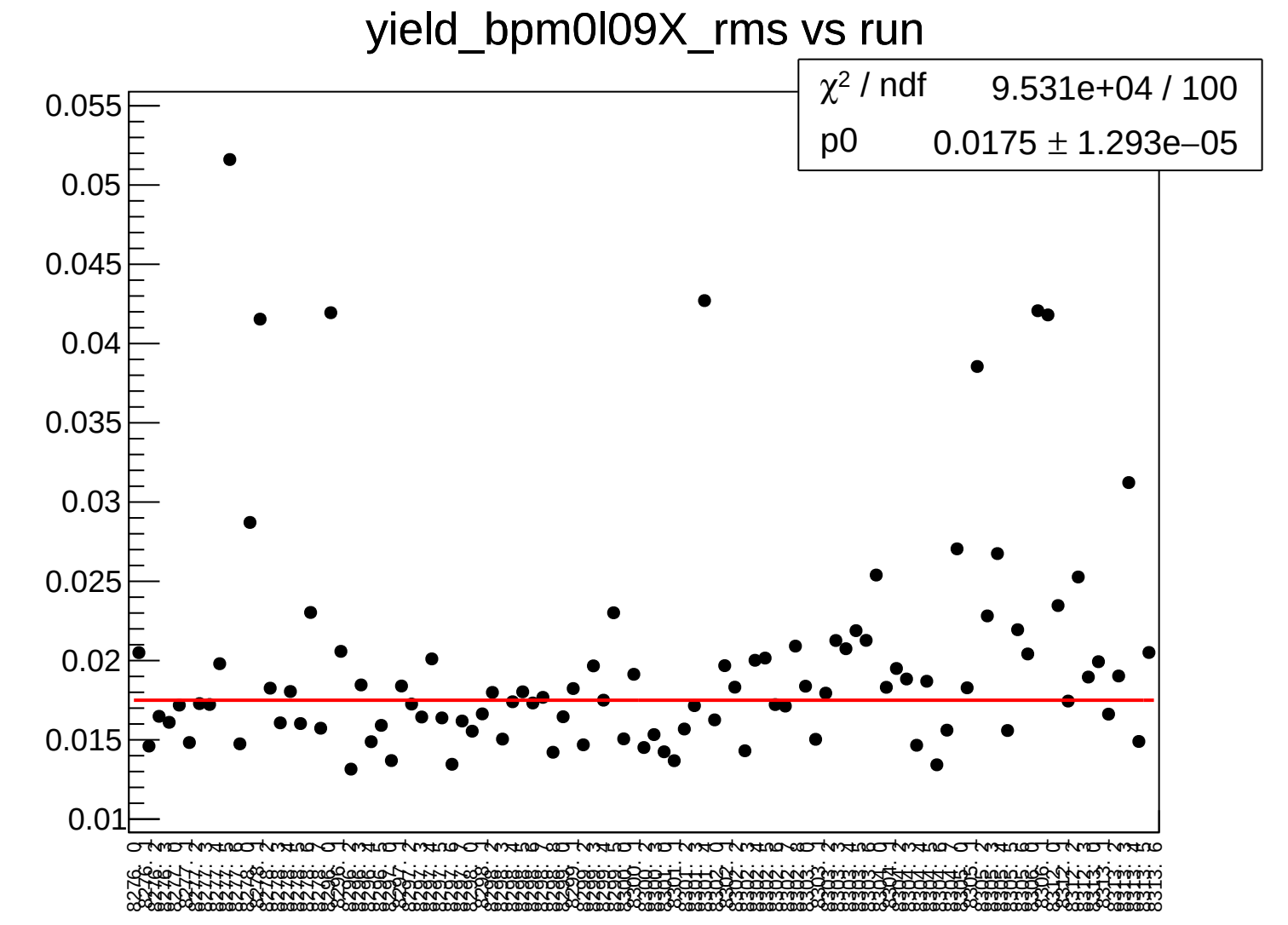

yield_bpm0l08X_rms vs run
χ² / ndf 9.882e+04 / 100
p0 0.01847 ± 1.366e−05
0.05
0.04
0.03
0.02
0.01

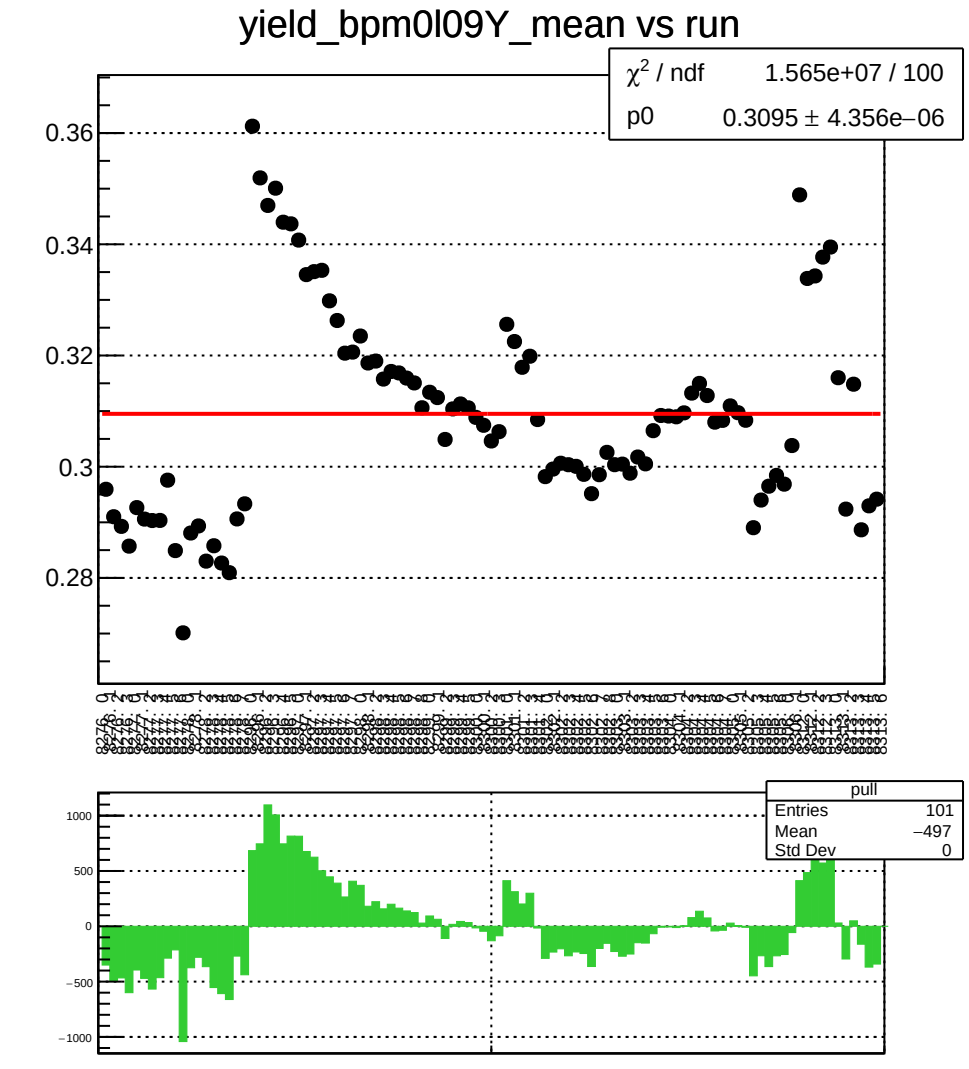

yield_bpm0l08Y_mean vs run
χ² / ndf 1.045e+07 / 100
p0 0.3425 ± 4.517e−06
0.39
0.38
0.37
0.36
0.35
0.34
0.33
0.32
0.31
pull
Entries 101
Mean 122.2
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600
pull1D
Entries 101
Mean −4.229
Std Dev 1.97
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

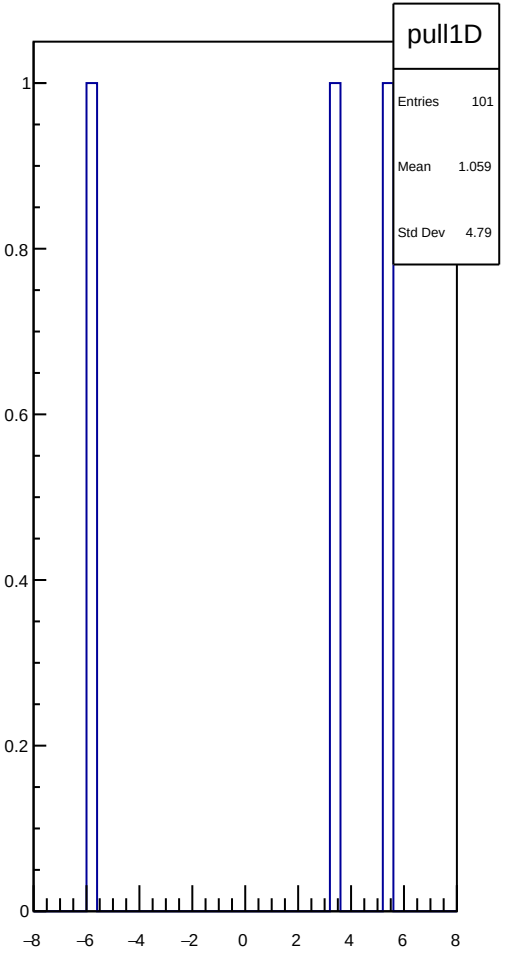

yield_bpm0l08Y_rms vs run
χ² / ndf 9.847e+04 / 100
p0 0.00432 ± 3.194e−06
0.014
0.012
0.01
0.008
0.006
0.004

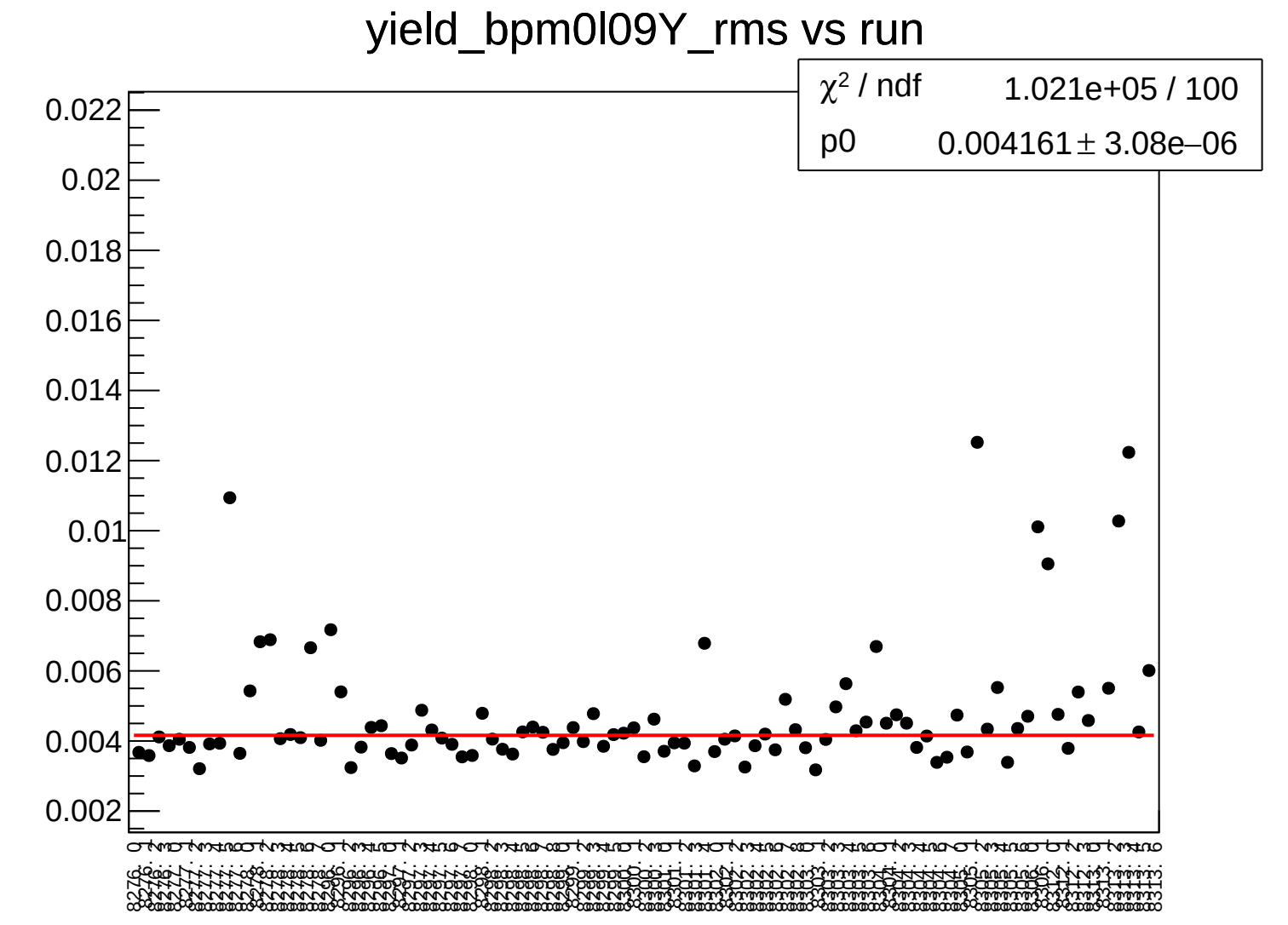

yield_bpm0l09X_mean vs run
χ² / ndf 1.851e+07 / 100
p0 0.9298 ± 1.828e−05
1.05
1
0.95
0.9
0.85
0.8
0.75
pull
Entries 101
Mean 264
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
−1000
−1200

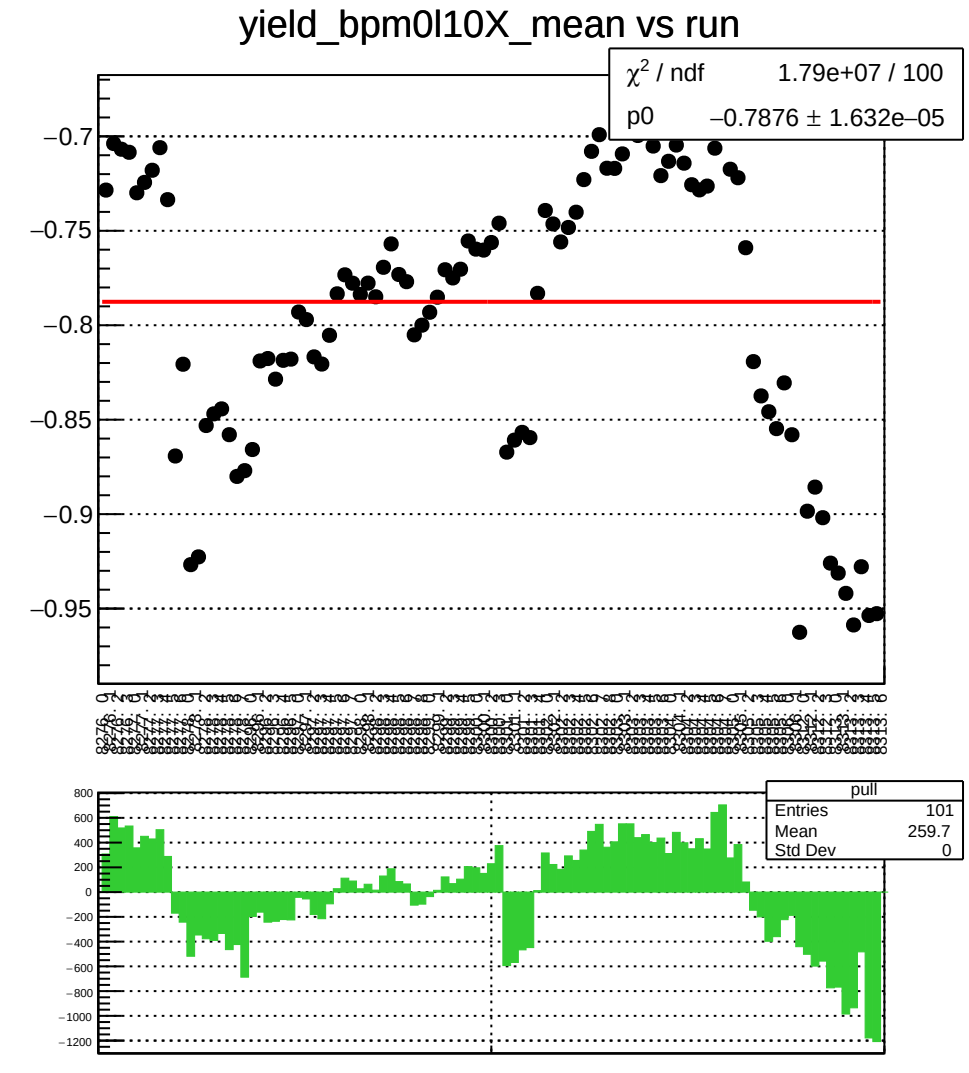

pull1D
Entries 101
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

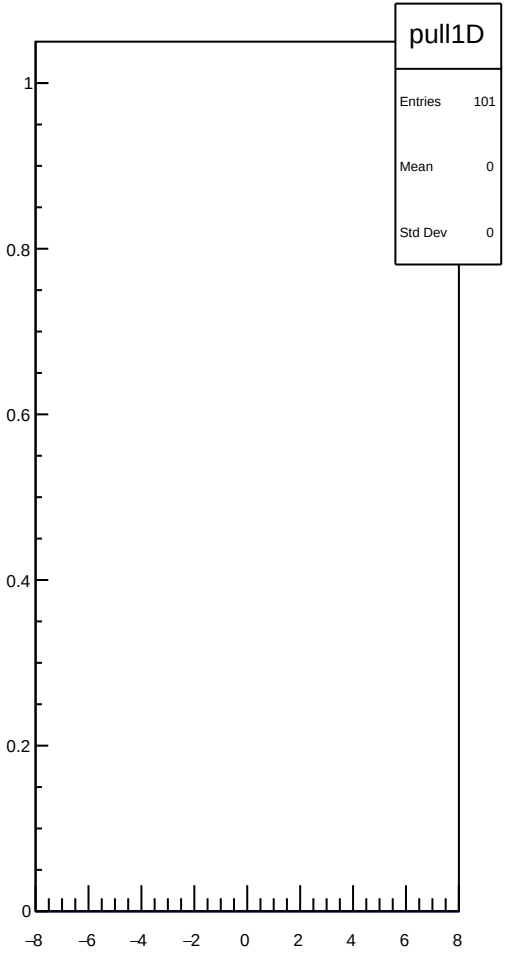

yield_bpm0l09X_rms vs run
χ² / ndf 9.531e+04 / 100
p0 0.0175 ± 1.293e−05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

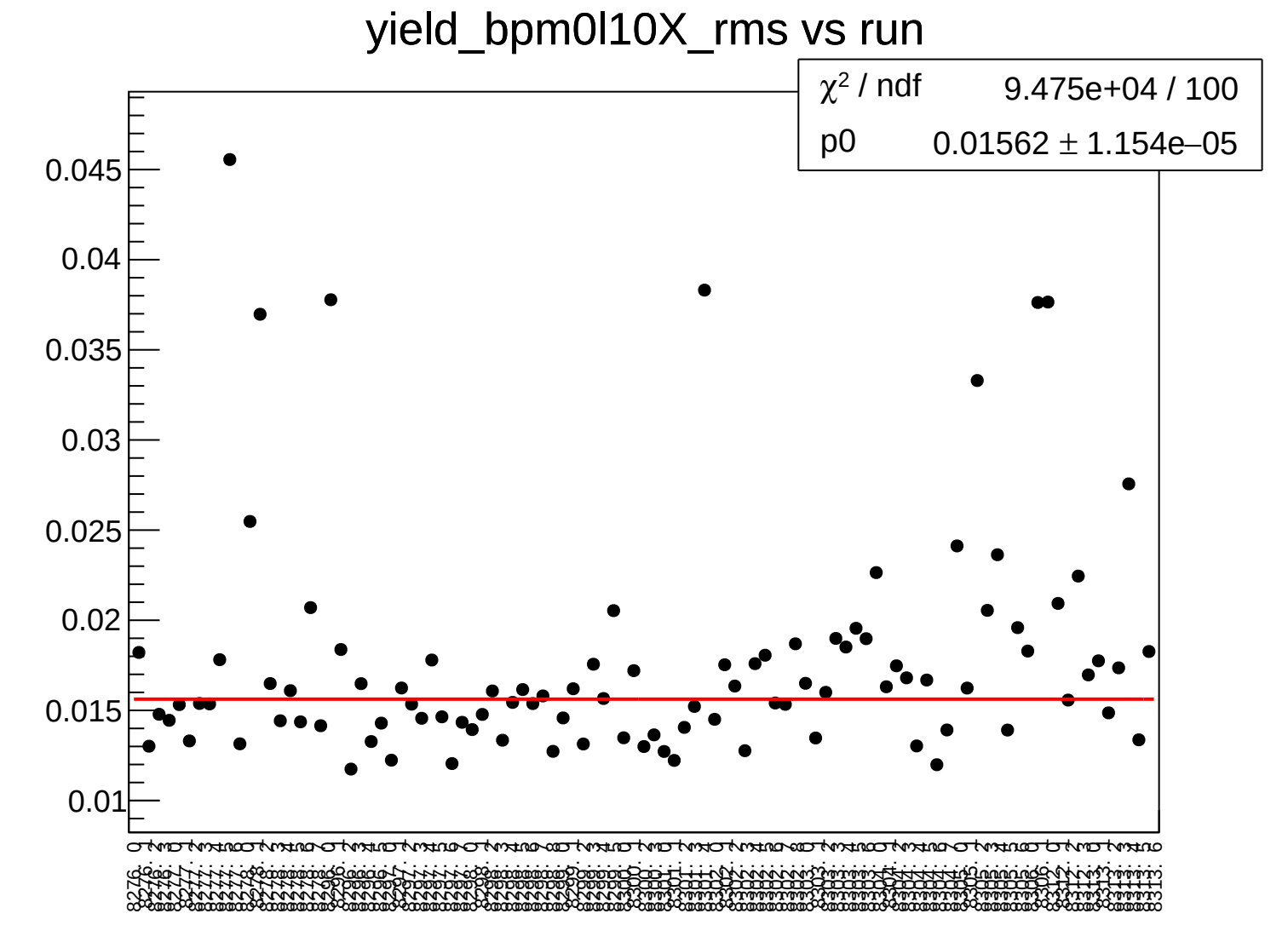

yield_bpm0l09Y_mean vs run
χ² / ndf 1.565e+07 / 100
p0 0.3095 ± 4.356e−06
0.36
0.34
0.32
0.3
0.28
pull
Entries 101
Mean −497
Std Dev 0
1000
500
0
−500
−1000

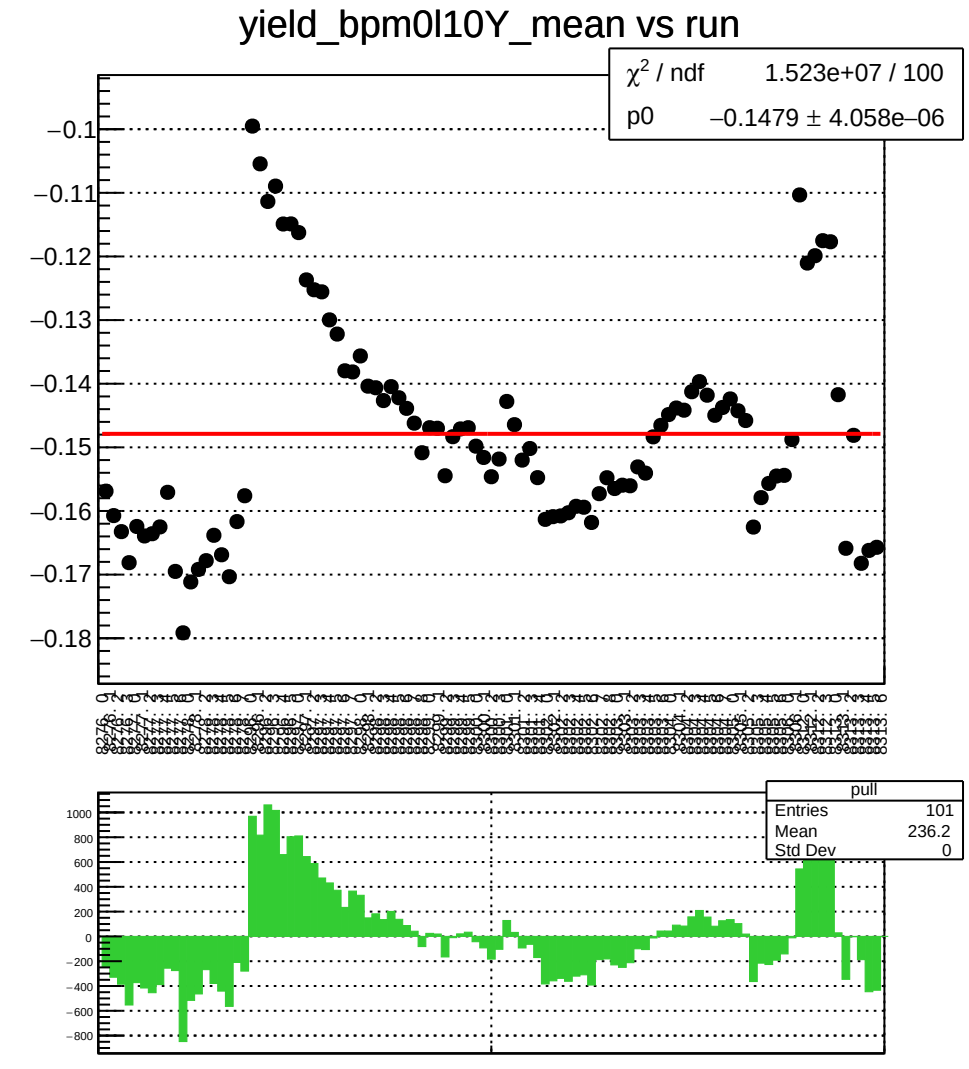

pull1D
Entries 101
Mean 1.059
Std Dev 4.79
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

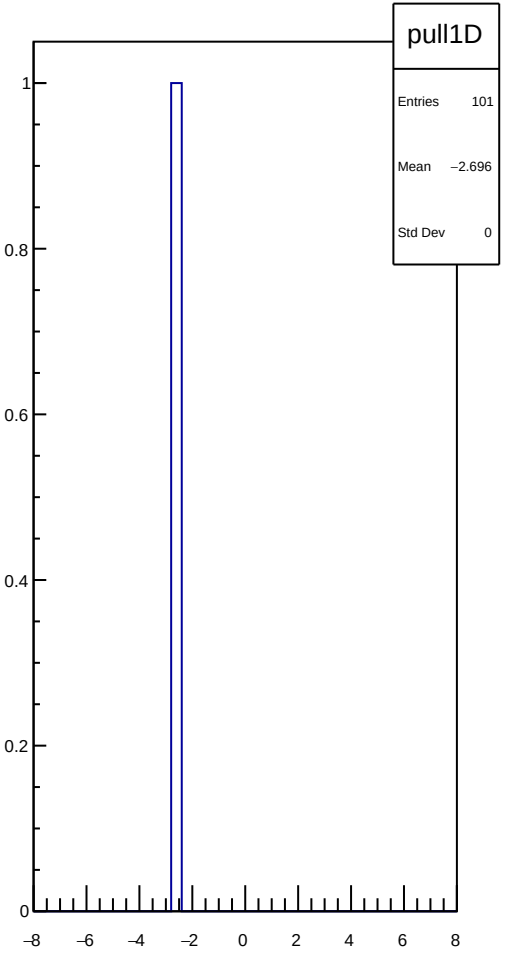

yield_bpm0l09Y_rms vs run
χ² / ndf 1.021e+05 / 100
p0 0.004161 ± 3.08e–06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

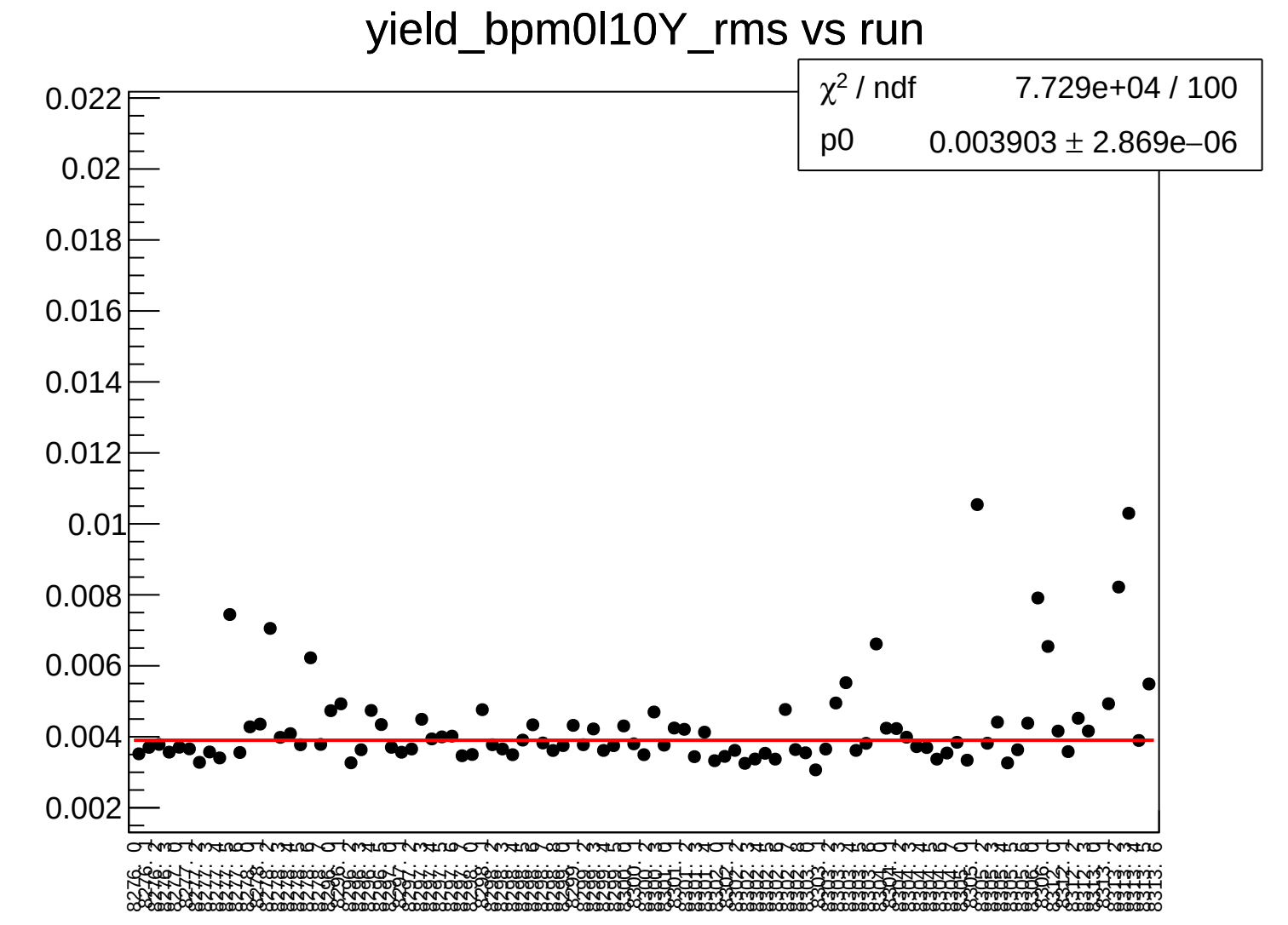

yield_bpm0l10X_mean vs run
χ² / ndf 1.79e+07 / 100
p0 −0.7876 ± 1.632e−05
−0.7
−0.75
−0.8
−0.85
−0.9
−0.95
pull
Entries 101
Mean 259.7
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
−1000
−1200

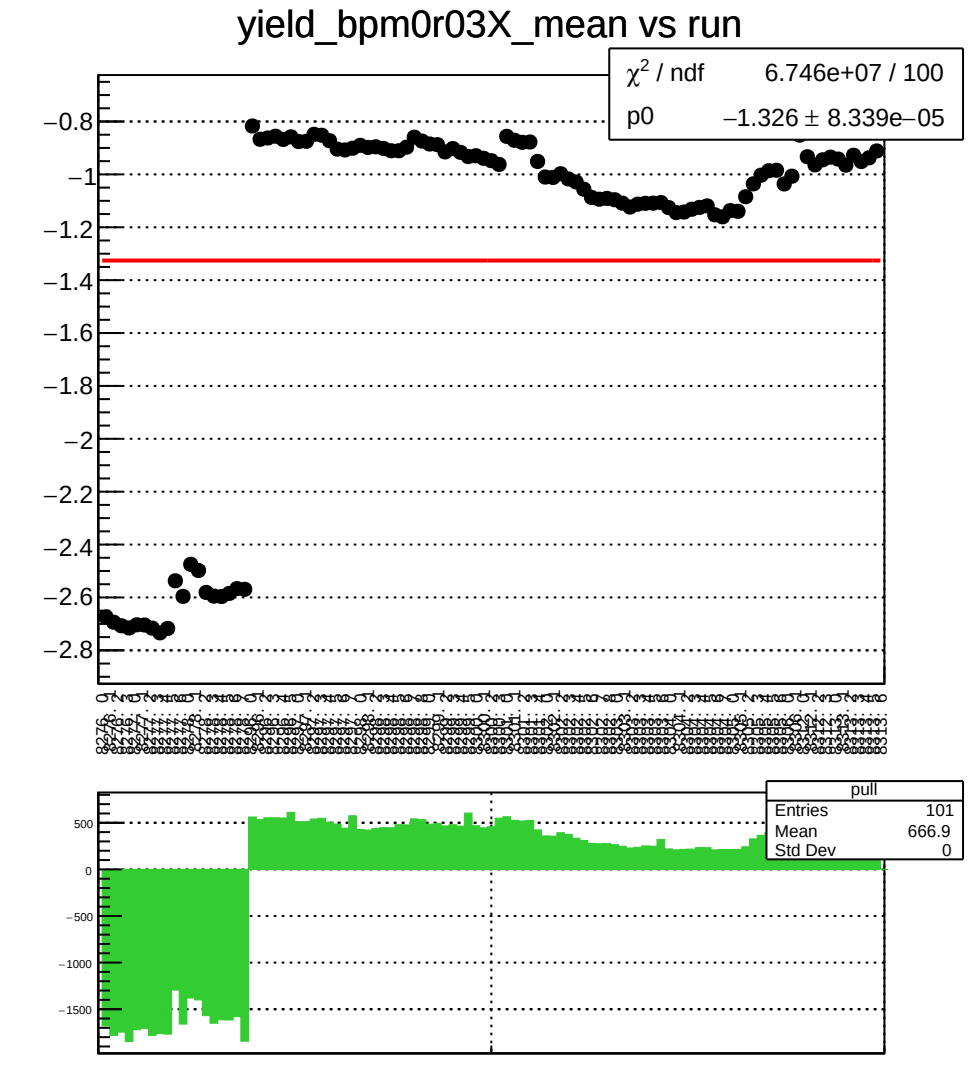

pull1D
Entries 101
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

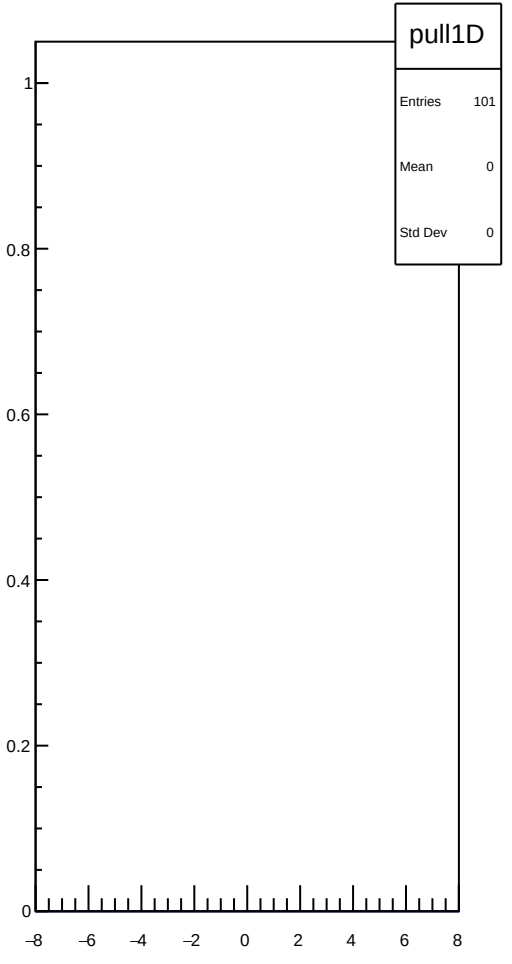

yield_bpm0l10X_rms vs run
χ² / ndf 9.475e+04 / 100
p0 0.01562 ± 1.154e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

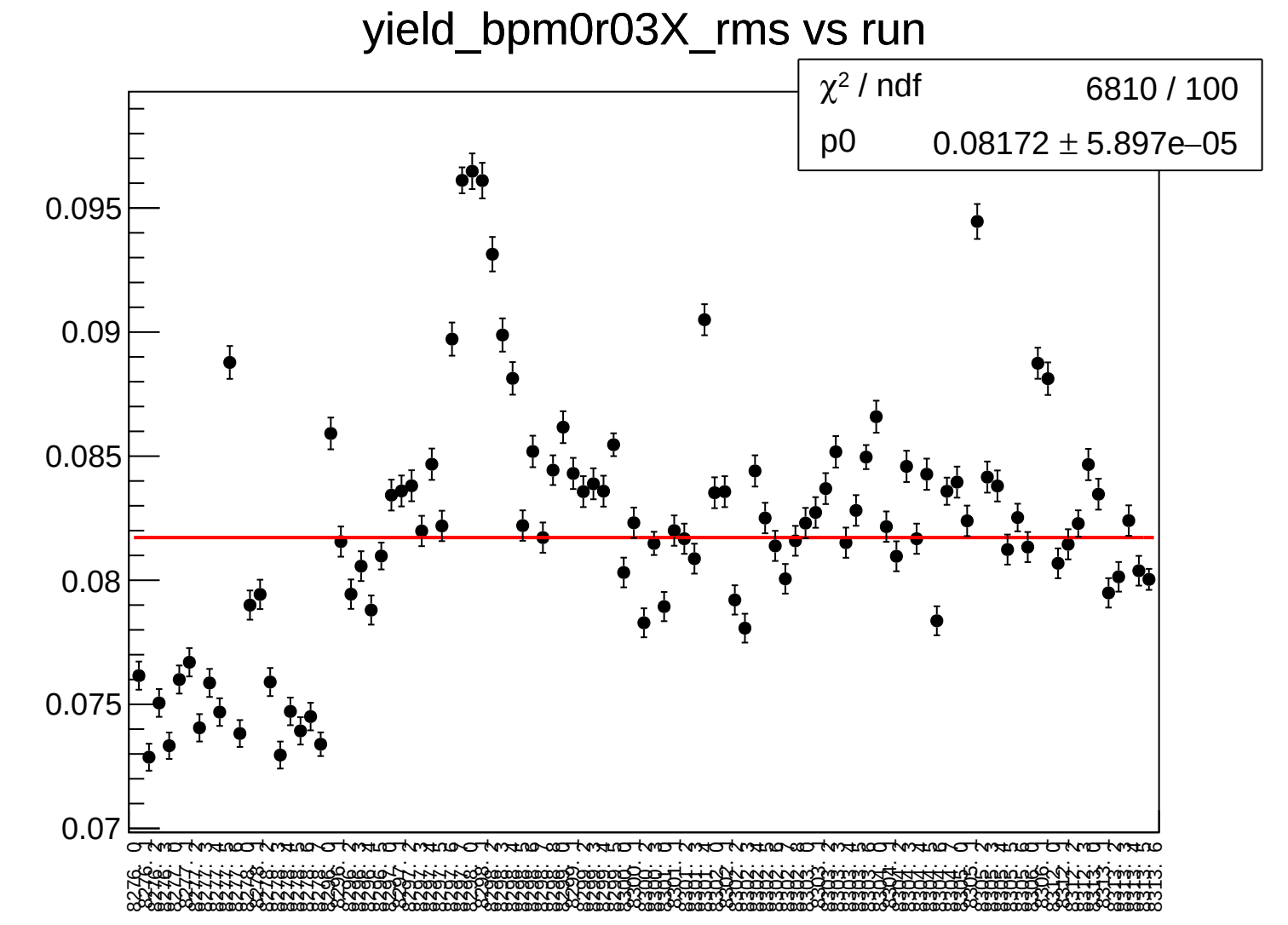

yield_bpm0l10Y_mean vs run
χ² / ndf 1.523e+07 / 100
p0 −0.1479 ± 4.058e−06
−0.1
−0.11
−0.12
−0.13
−0.14
−0.15
−0.16
−0.17
−0.18
pull
Entries 101
Mean 236.2
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600
−800

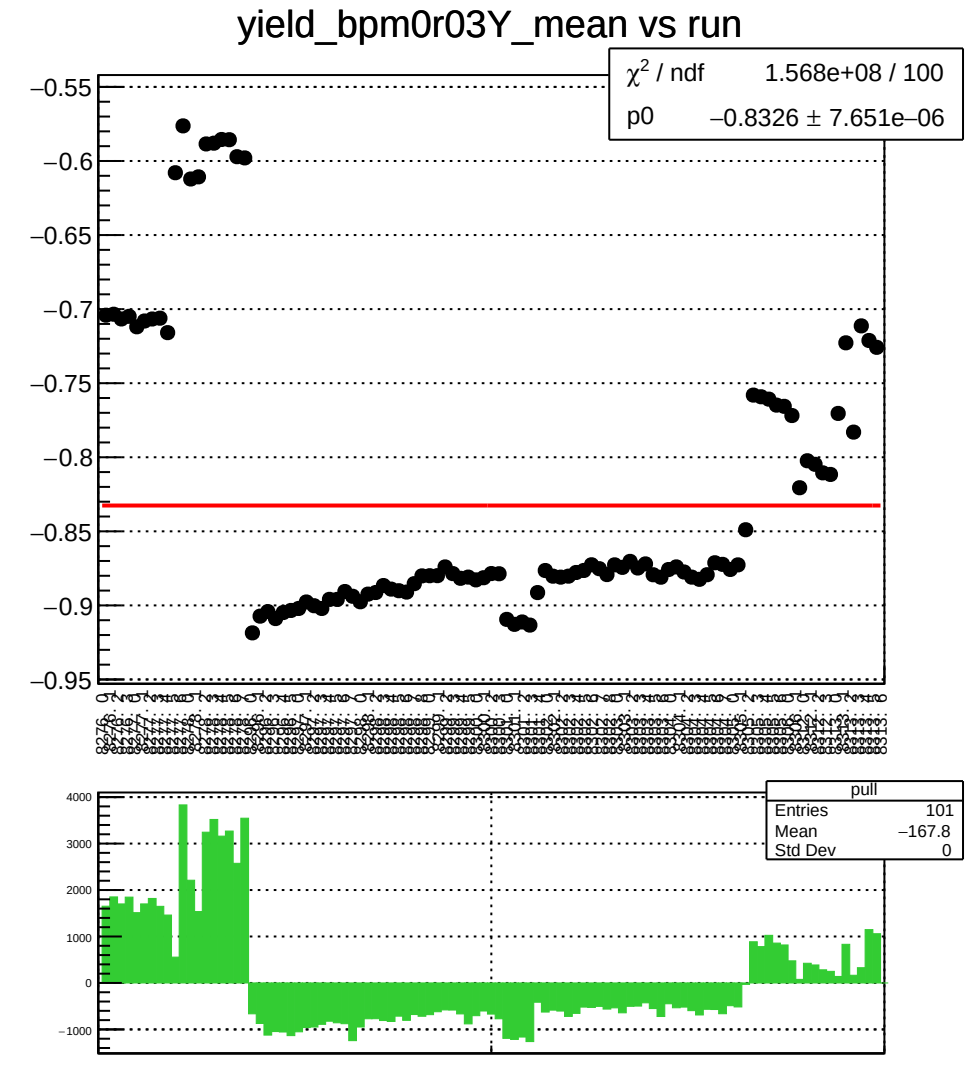

pull1D
Entries 101
Mean −2.696
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

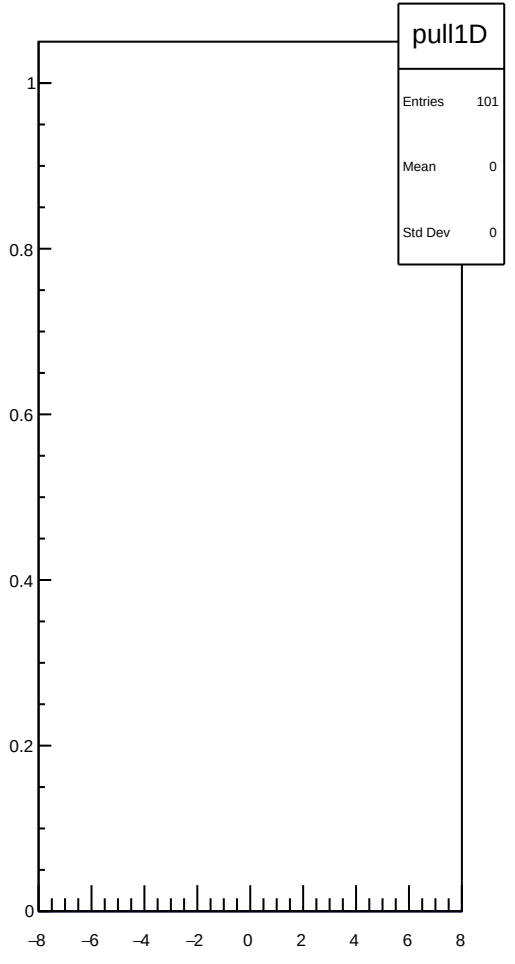

yield_bpm0l10Y_rms vs run
χ² / ndf 7.729e+04 / 100
p0 0.003903 ± 2.869e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

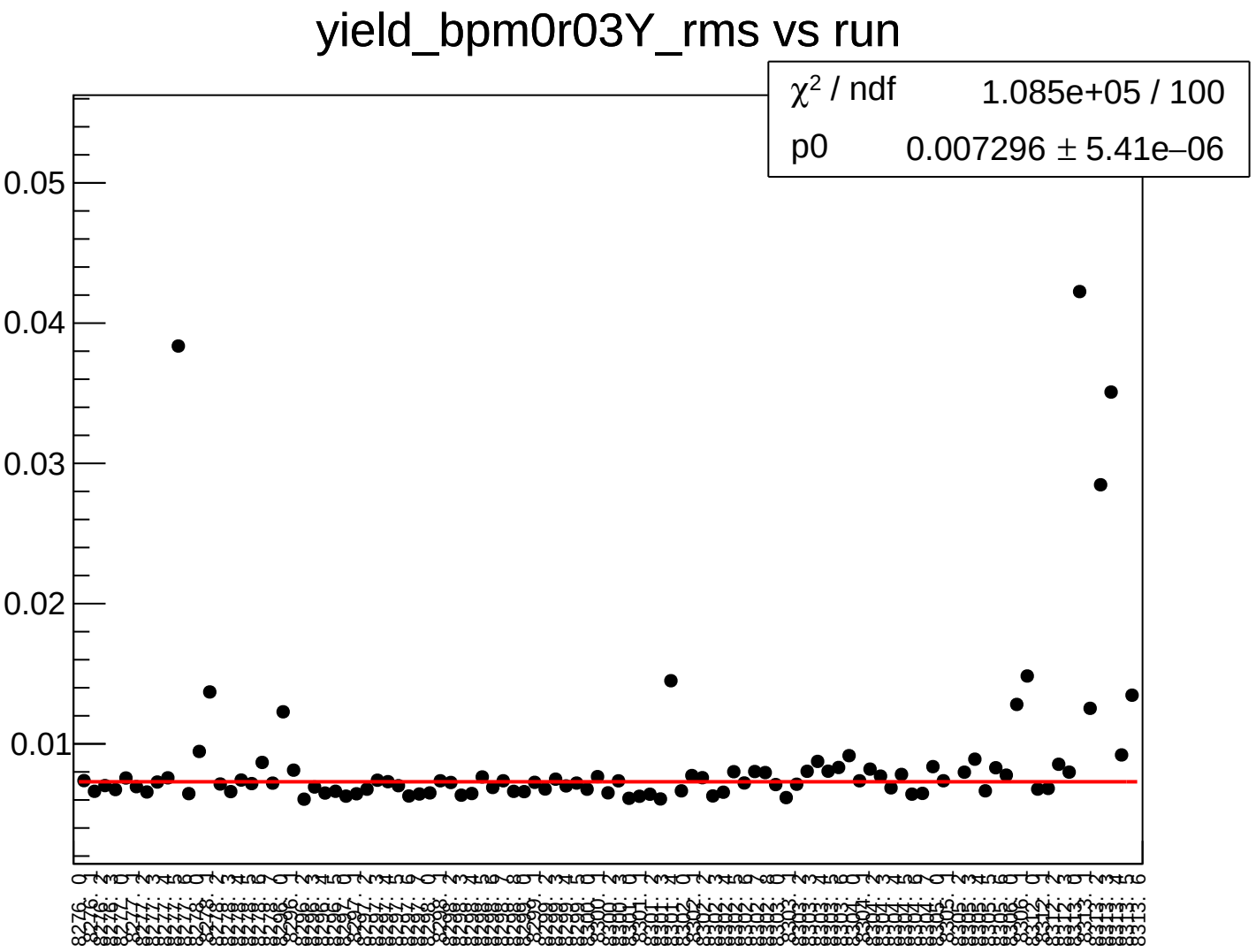

yield_bpm0r03X_mean vs run
χ² / ndf 6.746e+07 / 100
p0 −1.326 ± 8.339e−05
−0.8
−1
−1.2
−1.4
−1.6
−1.8
−2
−2.2
−2.4
−2.6
−2.8
pull
Entries 101
Mean 666.9
Std Dev 0
500
0
−500
−1000
−1500

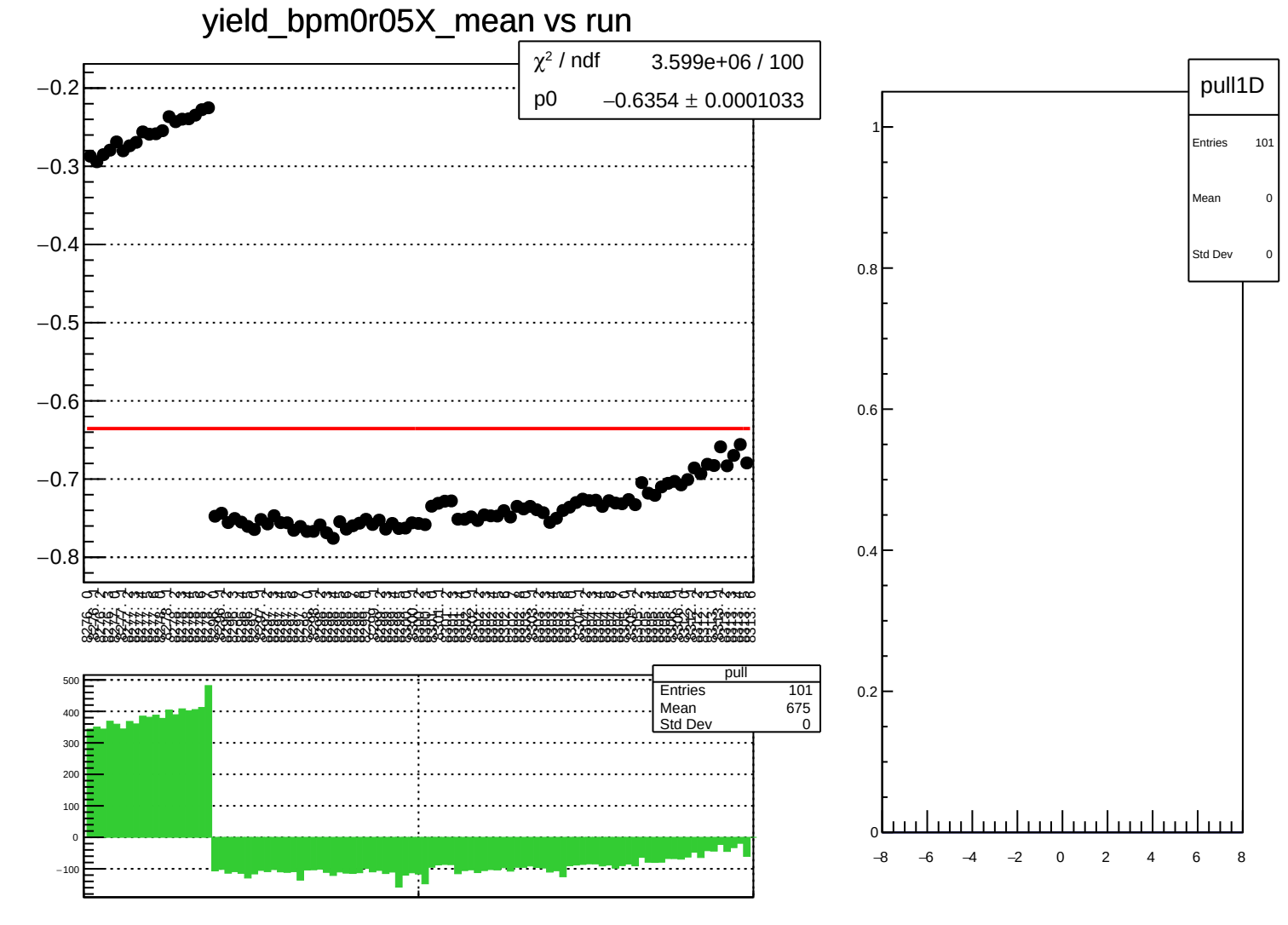

pull1D
Entries 101
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

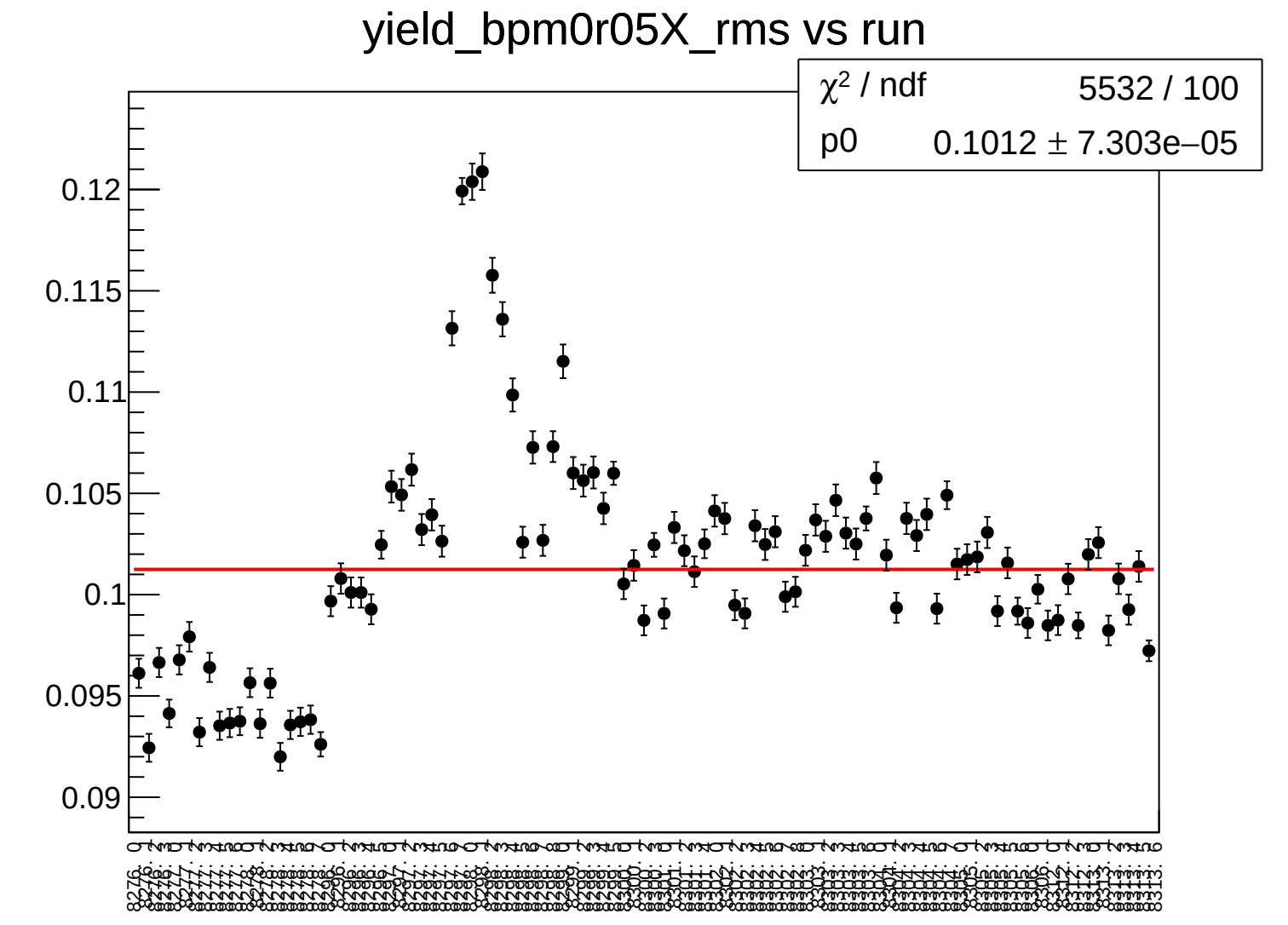

yield_bpm0r03X_rms vs run
χ² / ndf 6810 / 100
p0 0.08172 ± 5.897e–05
0.095
0.09
0.085
0.08
0.075
0.07

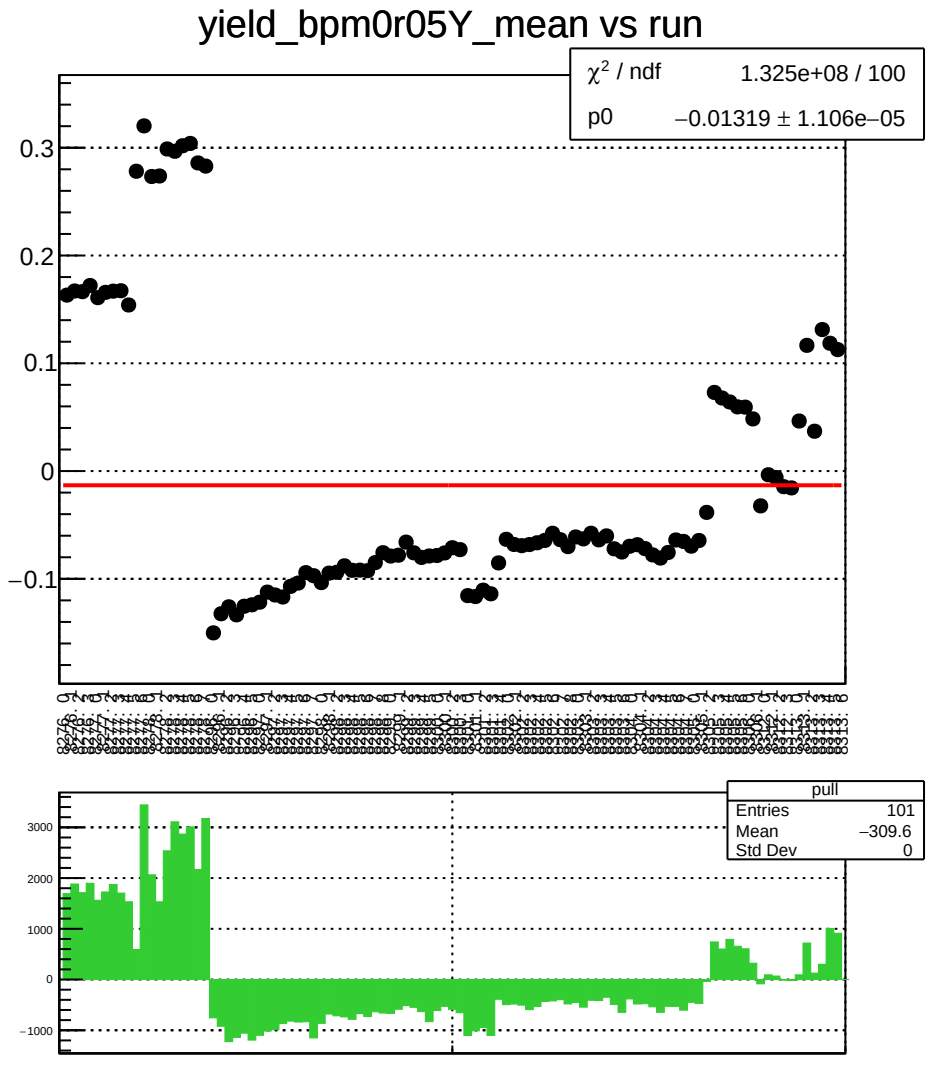

yield_bpm0r03Y_mean vs run
χ² / ndf 1.568e+08 / 100
p0 −0.8326 ± 7.651e−06
−0.55
−0.6
−0.65
−0.7
−0.75
−0.8
−0.85
−0.9
−0.95
pull
Entries 101
Mean −167.8
Std Dev 0
4000
3000
2000
1000
0
−1000

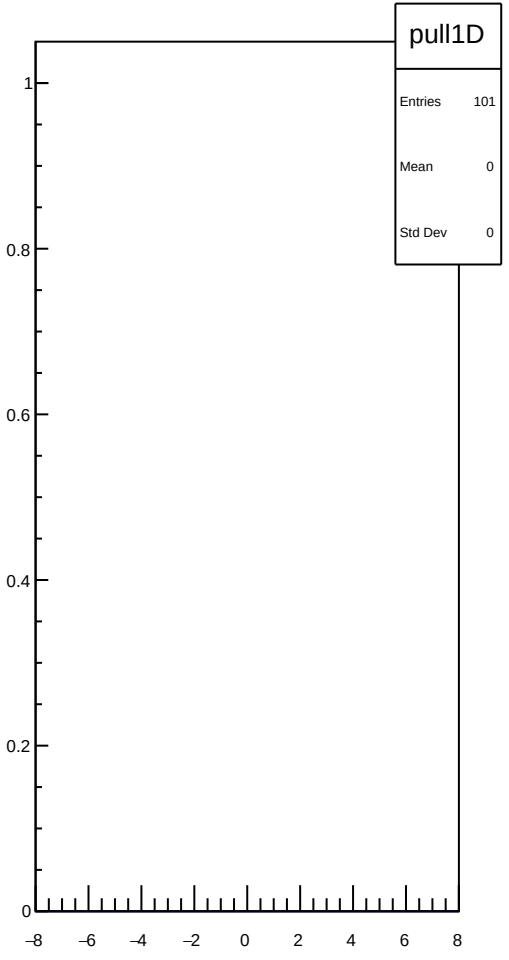

pull1D
Entries 101
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

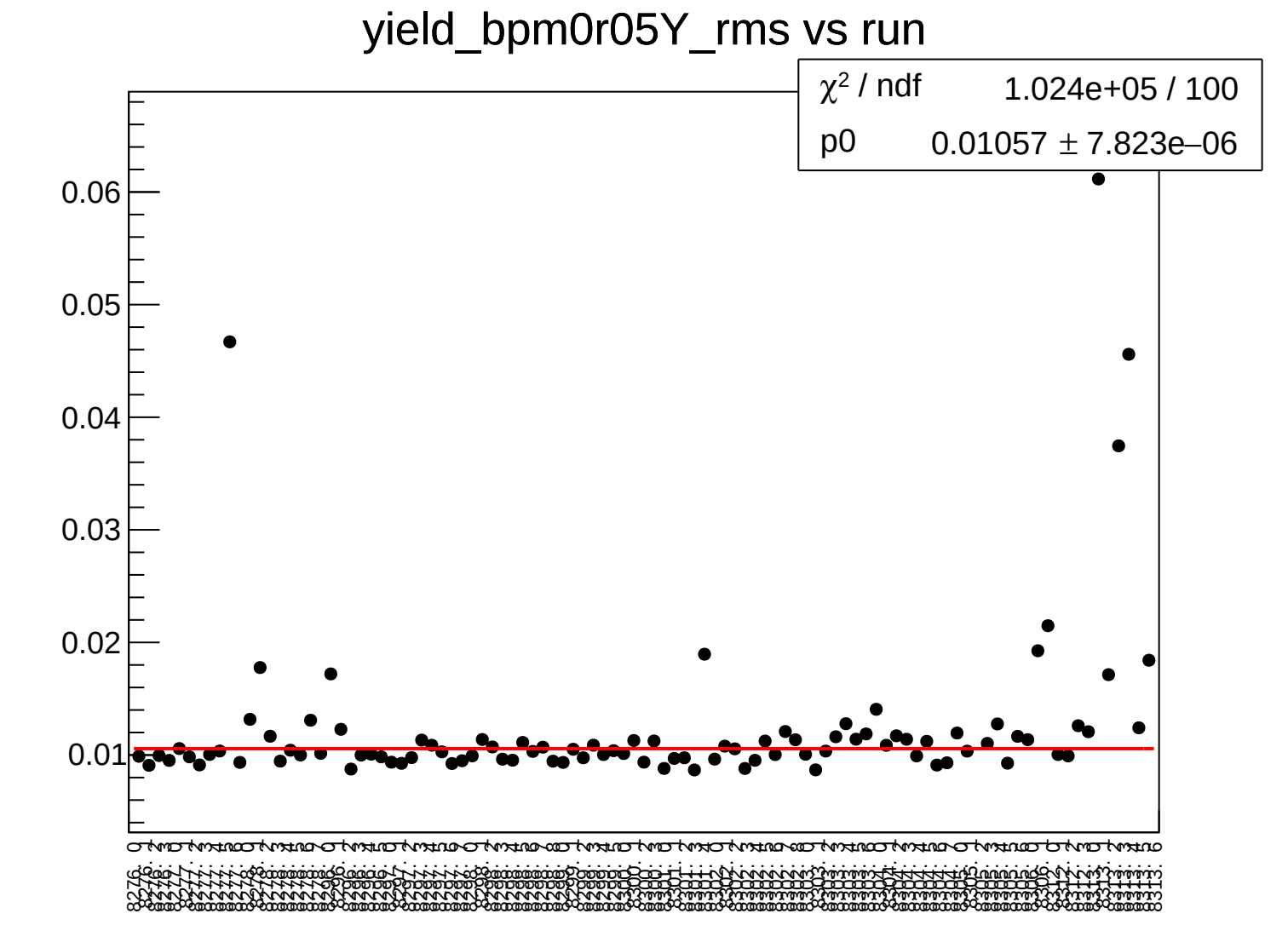

yield_bpm0r03Y_rms vs run
χ² / ndf 1.085e+05 / 100
p0 0.007296 ± 5.41e–06
0.05
0.04
0.03
0.02
0.01

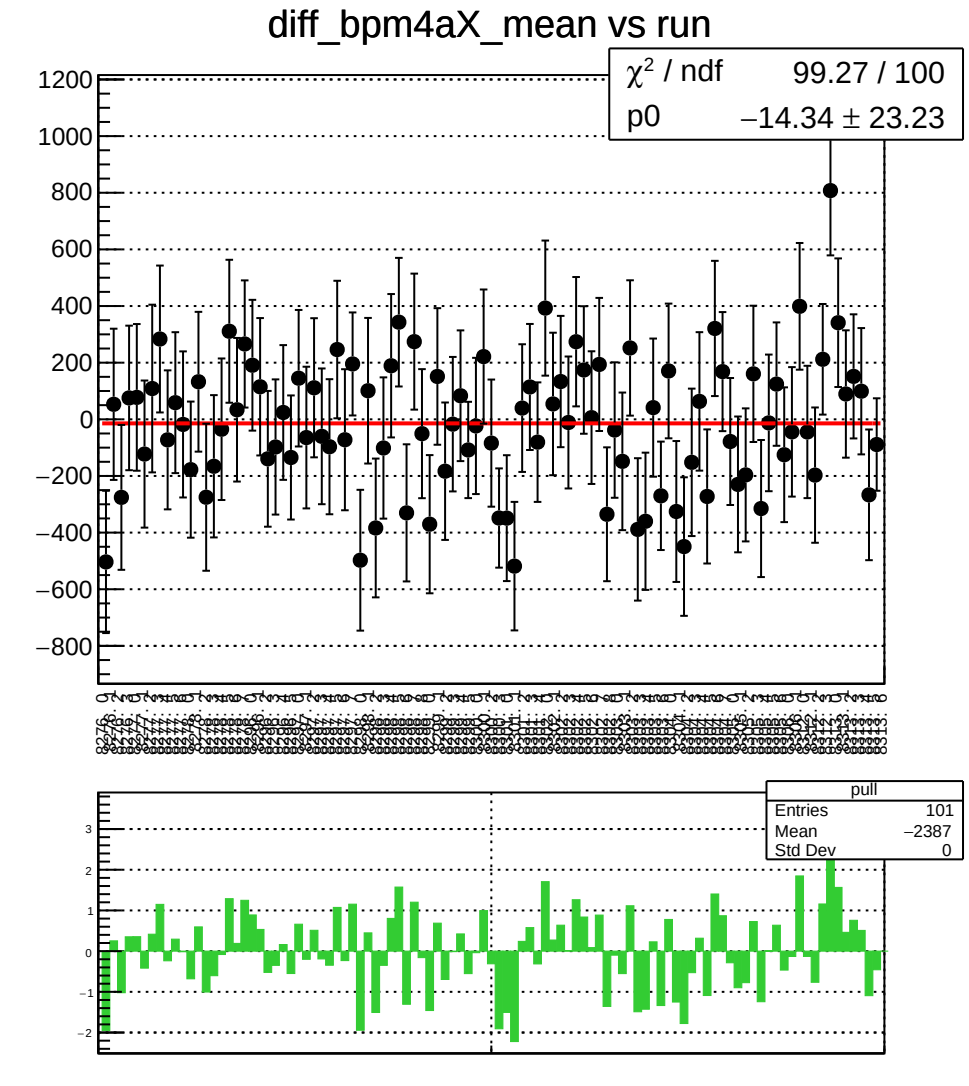

yield_bpm0r05X_mean vs run
χ² / ndf 3.599e+06 / 100
p0 −0.6354 ± 0.0001033
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
pull
Entries 101
Mean 675
Std Dev 0
500
400
300
200
100
0
−100
pull1D
Entries 101
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

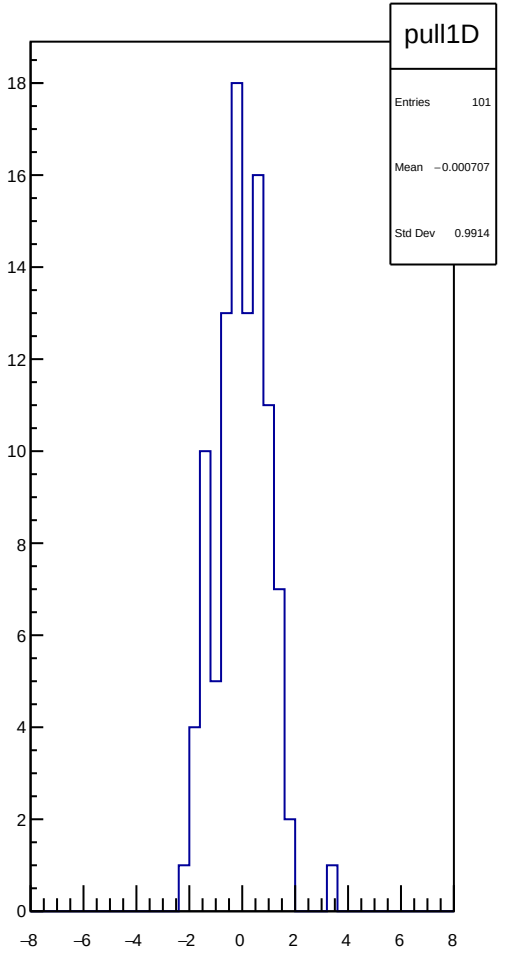

yield_bpm0r05X_rms vs run
χ² / ndf 5532 / 100
p0 0.1012 ± 7.303e−05
0.12
0.115
0.11
0.105
0.1
0.095
0.09

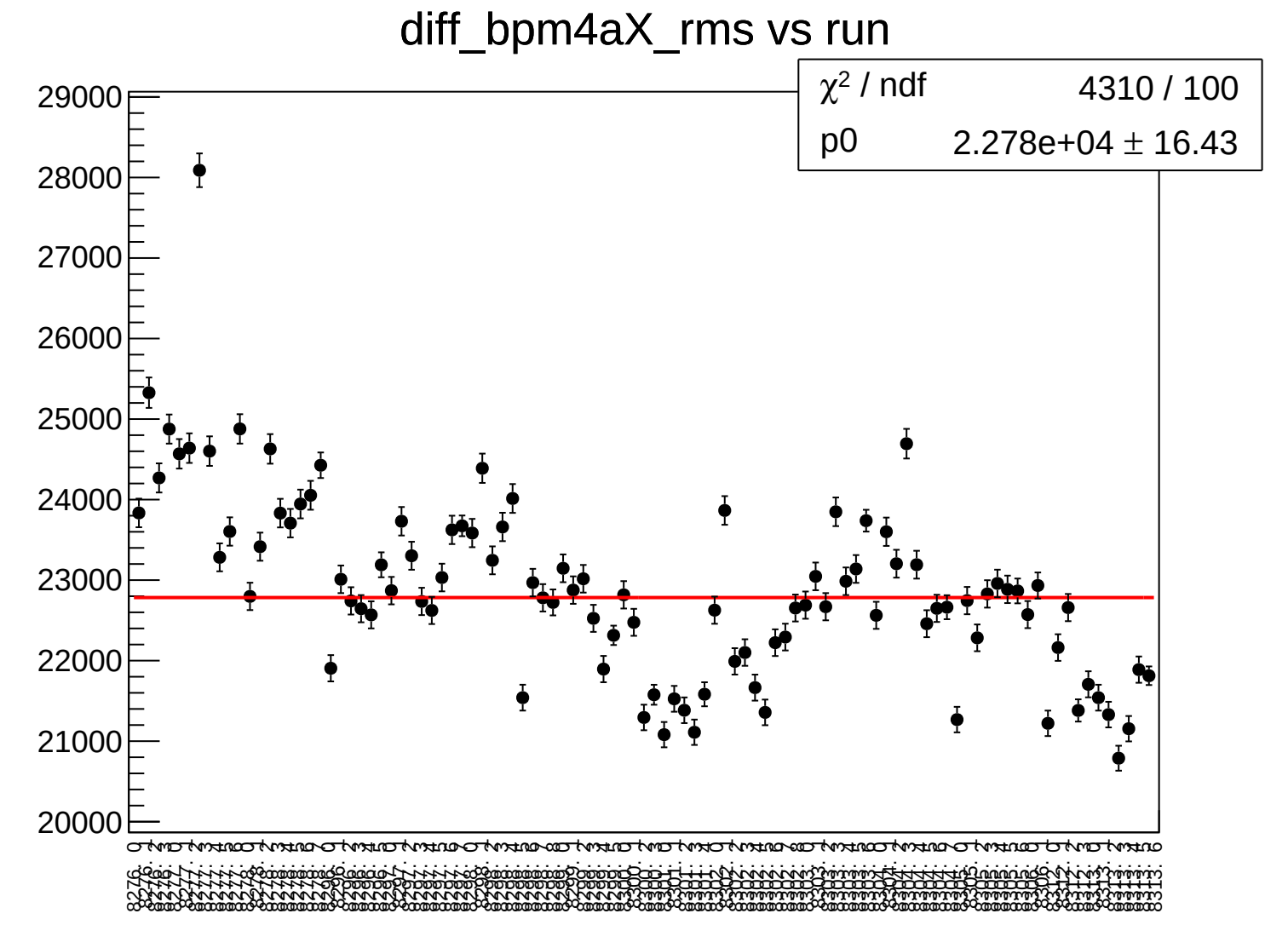

yield_bpm0r05Y_mean vs run
χ² / ndf 1.325e+08 / 100
p0 −0.01319 ± 1.106e−05
0.3
0.2
0.1
0
−0.1
pull
Entries 101
Mean −309.6
Std Dev 0
3000
2000
1000
0
−1000

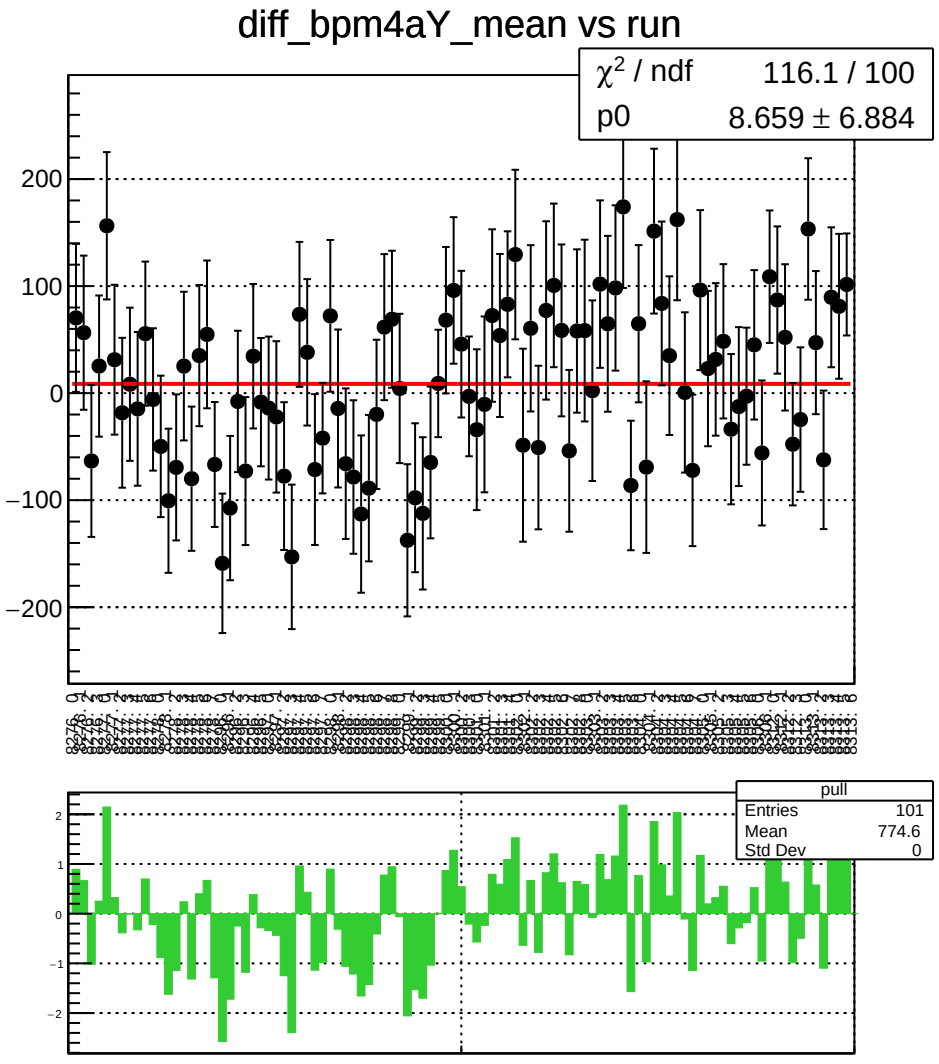

pull1D
Entries 101
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

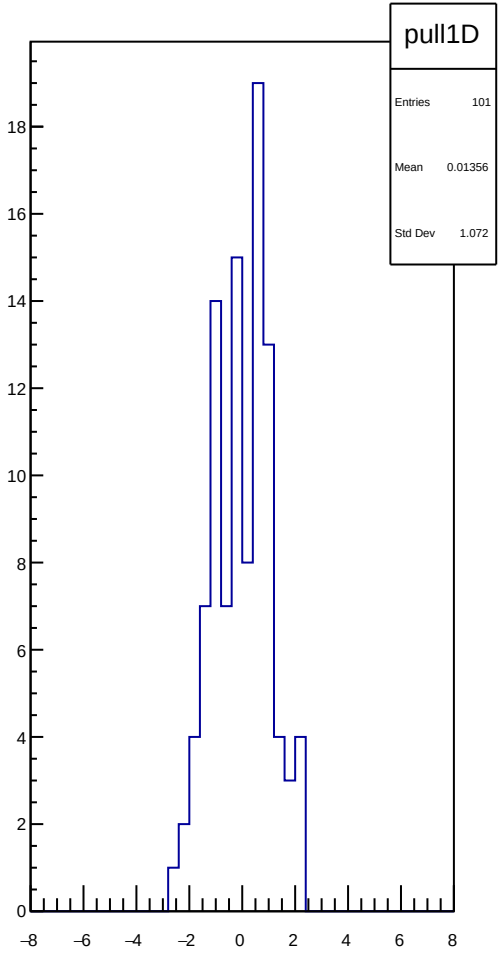

yield_bpm0r05Y_rms vs run
χ² / ndf 1.024e+05 / 100
p0 0.01057 ± 7.823e−06
0.06
0.05
0.04
0.03
0.02
0.01

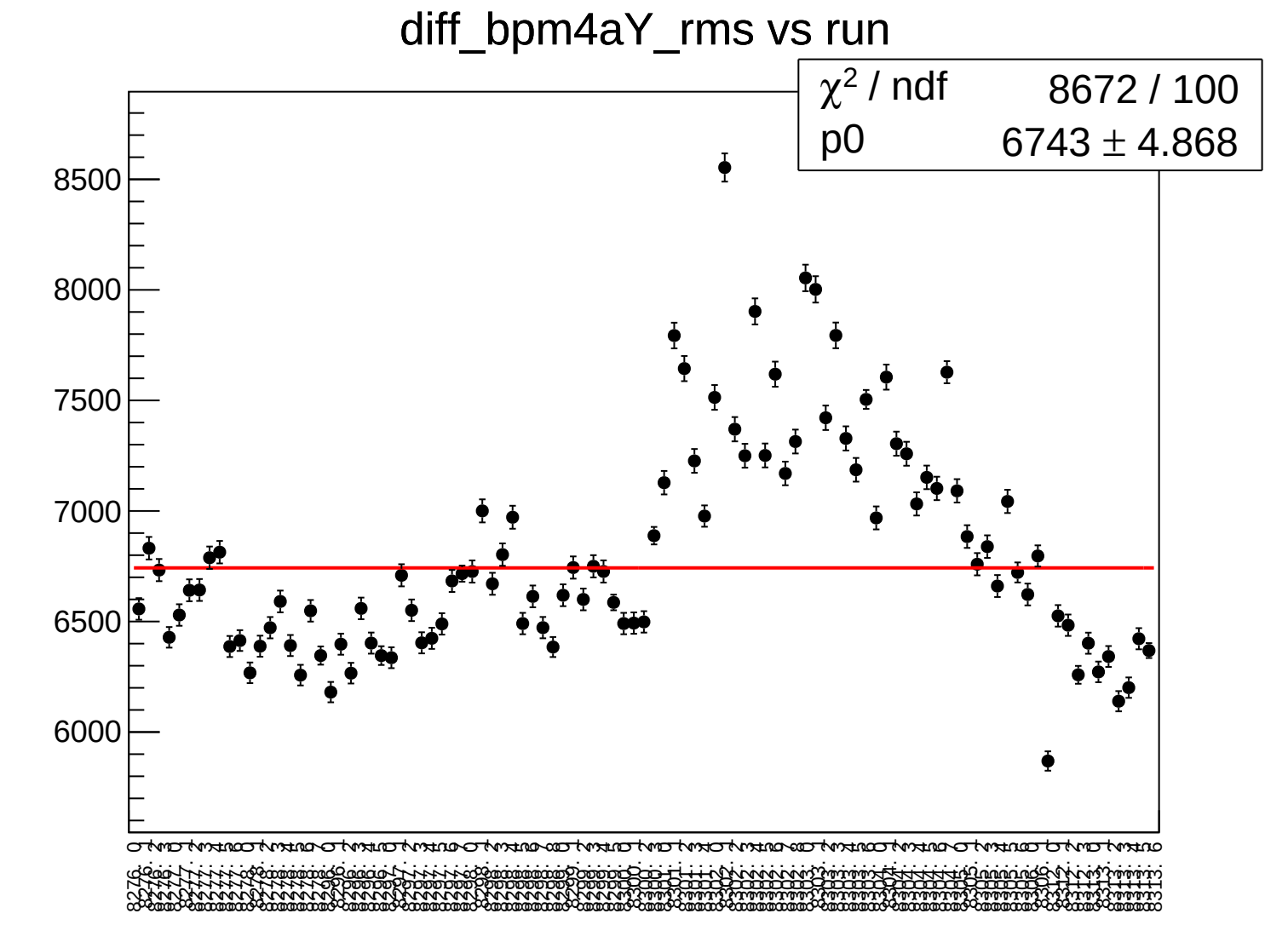

diff_bpm4aX_mean vs run
χ² / ndf 99.27 / 100
p0 −14.34 ± 23.23
pull
Entries 101
Mean −2387
Std Dev 0

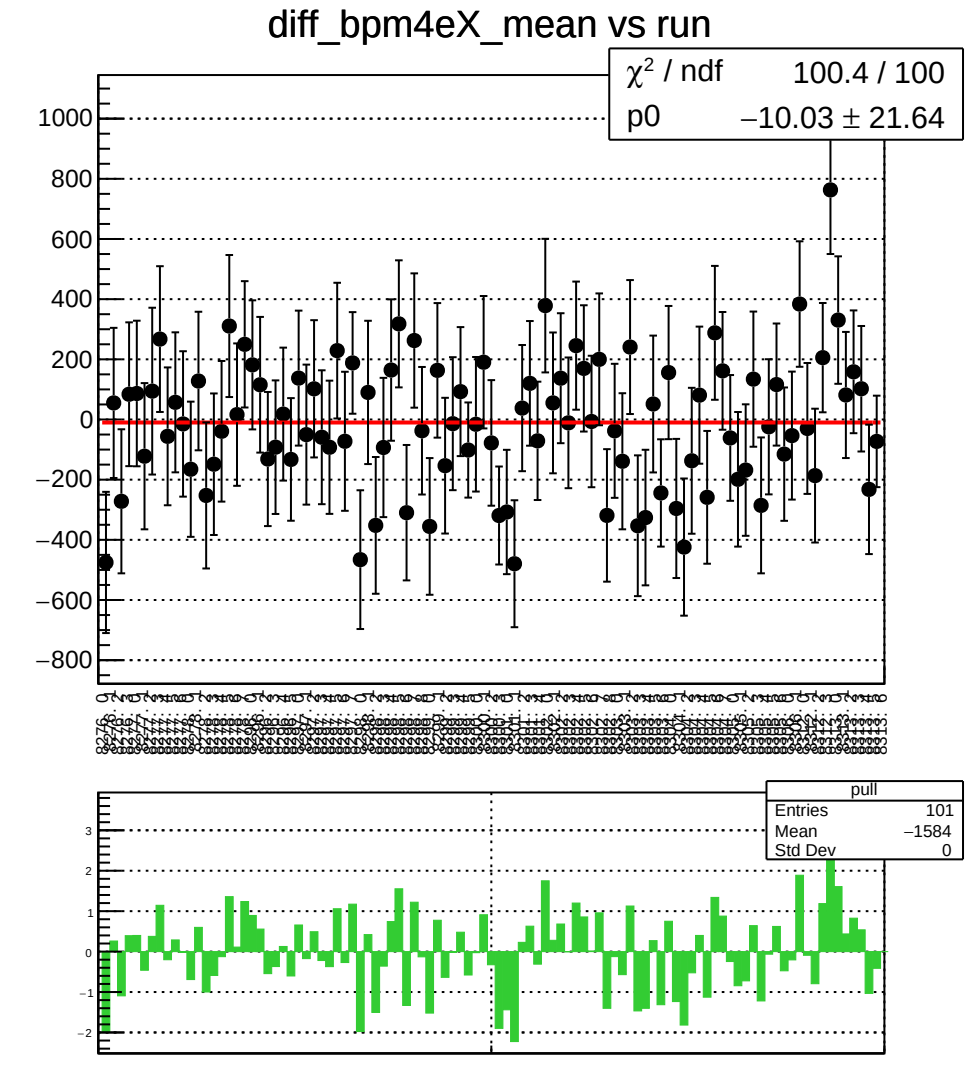

pull1D
Entries 101
Mean −0.000707
Std Dev 0.9914

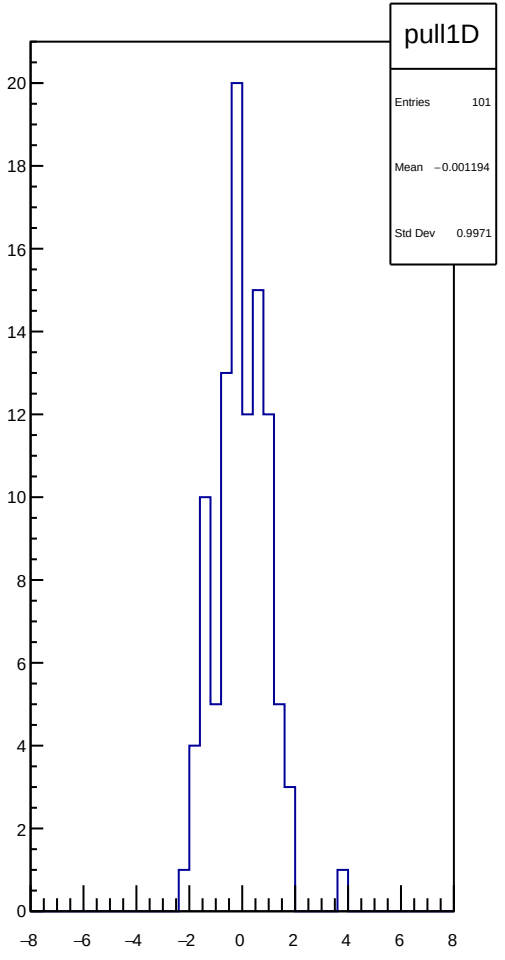

diff_bpm4aX_rms vs run
χ² / ndf 4310 / 100
p0 2.278e+04 ± 16.43
29000
28000
27000
26000
25000
24000
23000
22000
21000
20000

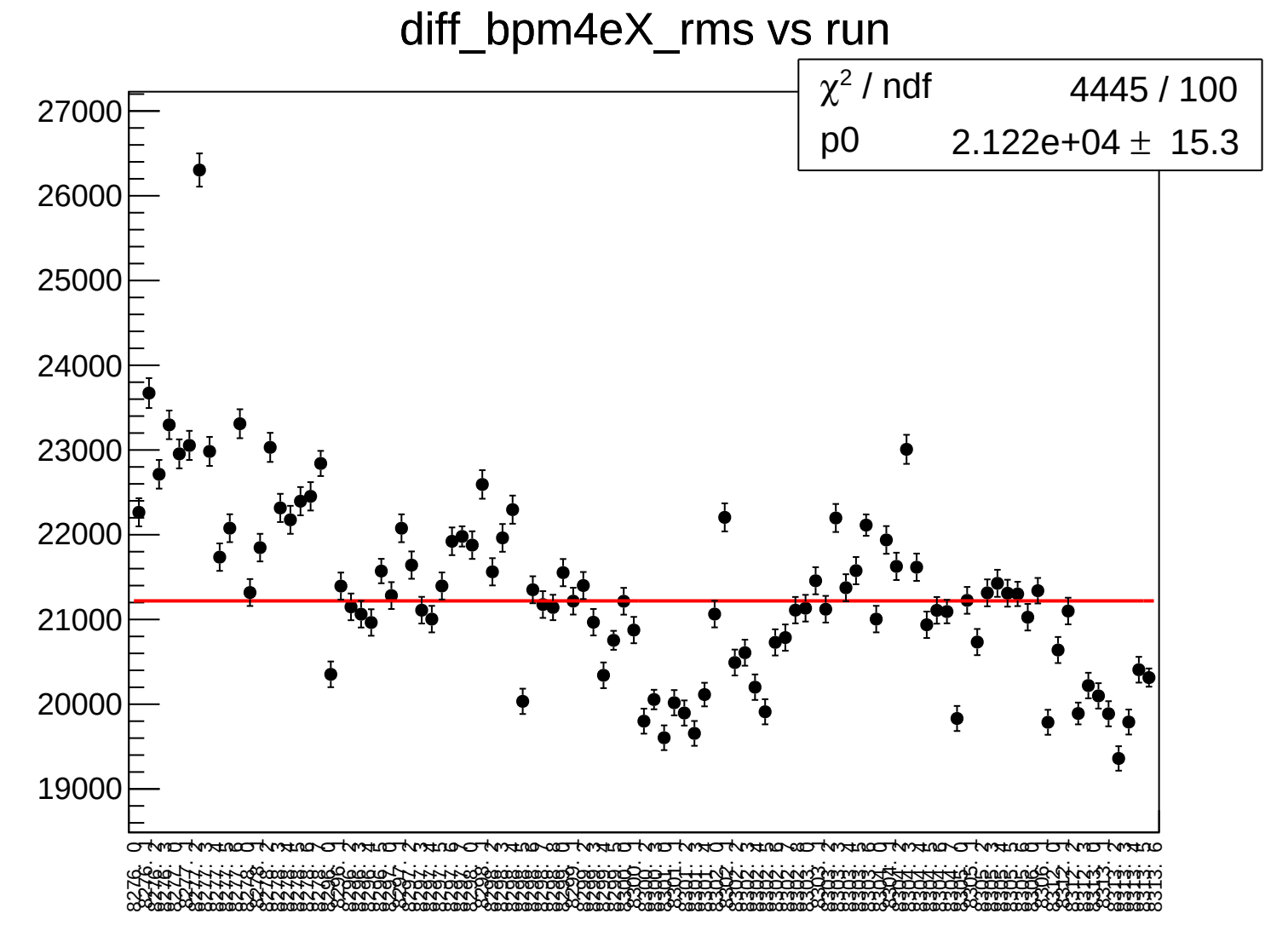

diff_bpm4aY_mean vs run
χ^2 / ndf 116.1 / 100
p0 8.659 ± 6.884
200
100
0
−100
−200
pull
Entries 101
Mean 774.6
Std Dev 0
2
1
0
−1
−2

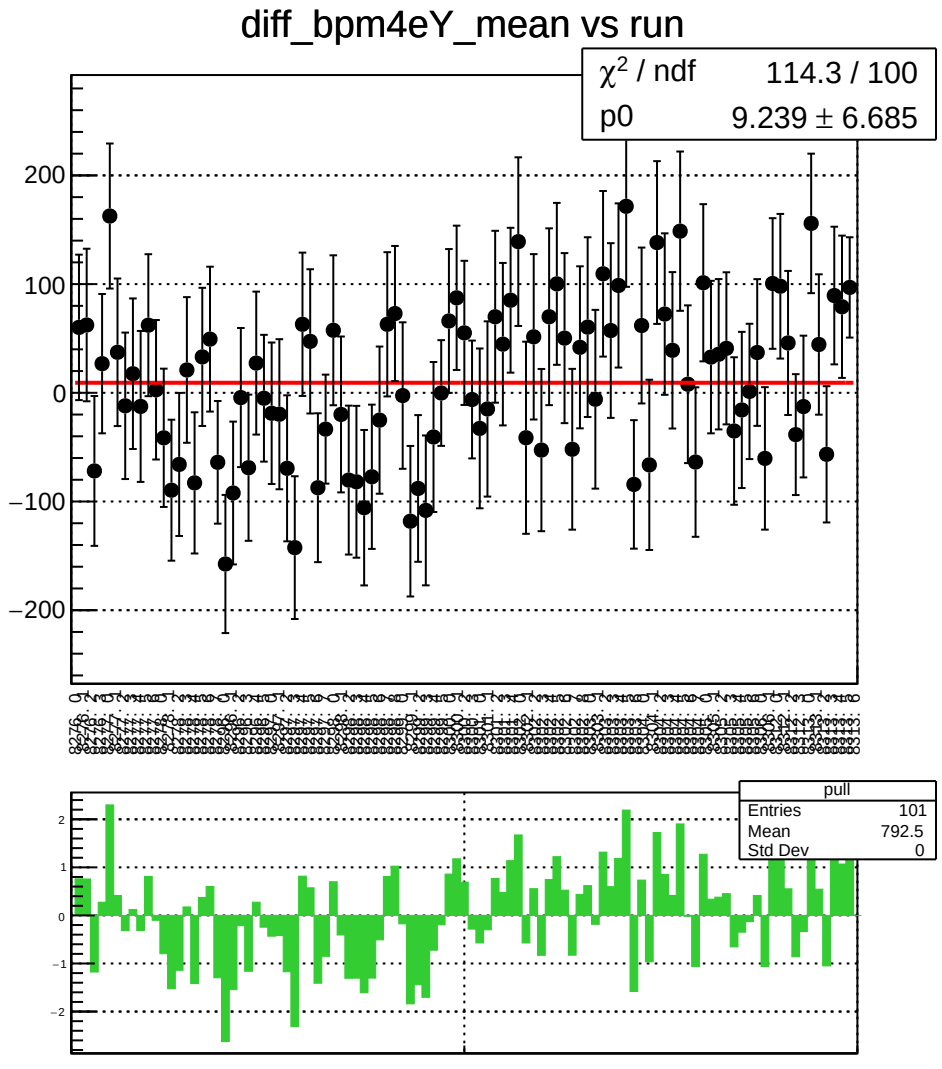

pull1D
Entries 101
Mean 0.01356
Std Dev 1.072
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

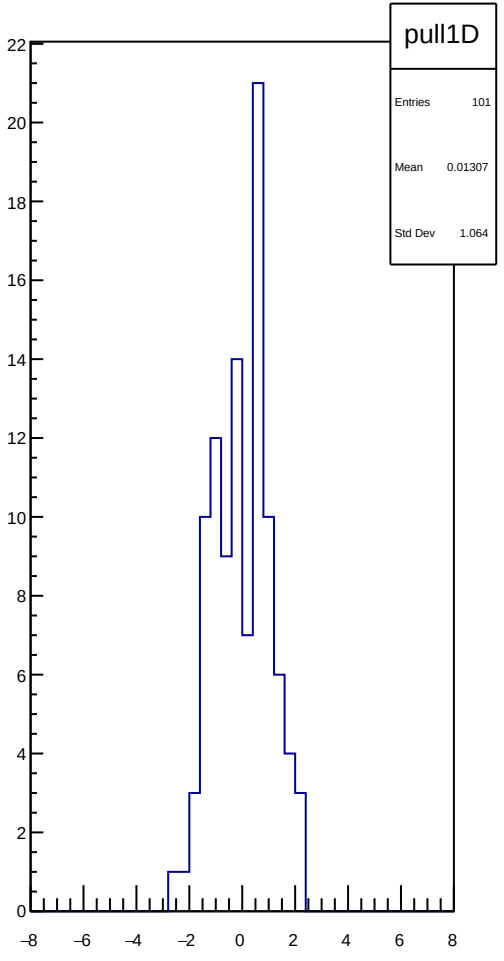

diff_bpm4aY_rms vs run
χ² / ndf 8672 / 100
p0 6743 ± 4.868
8500
8000
7500
7000
6500
6000

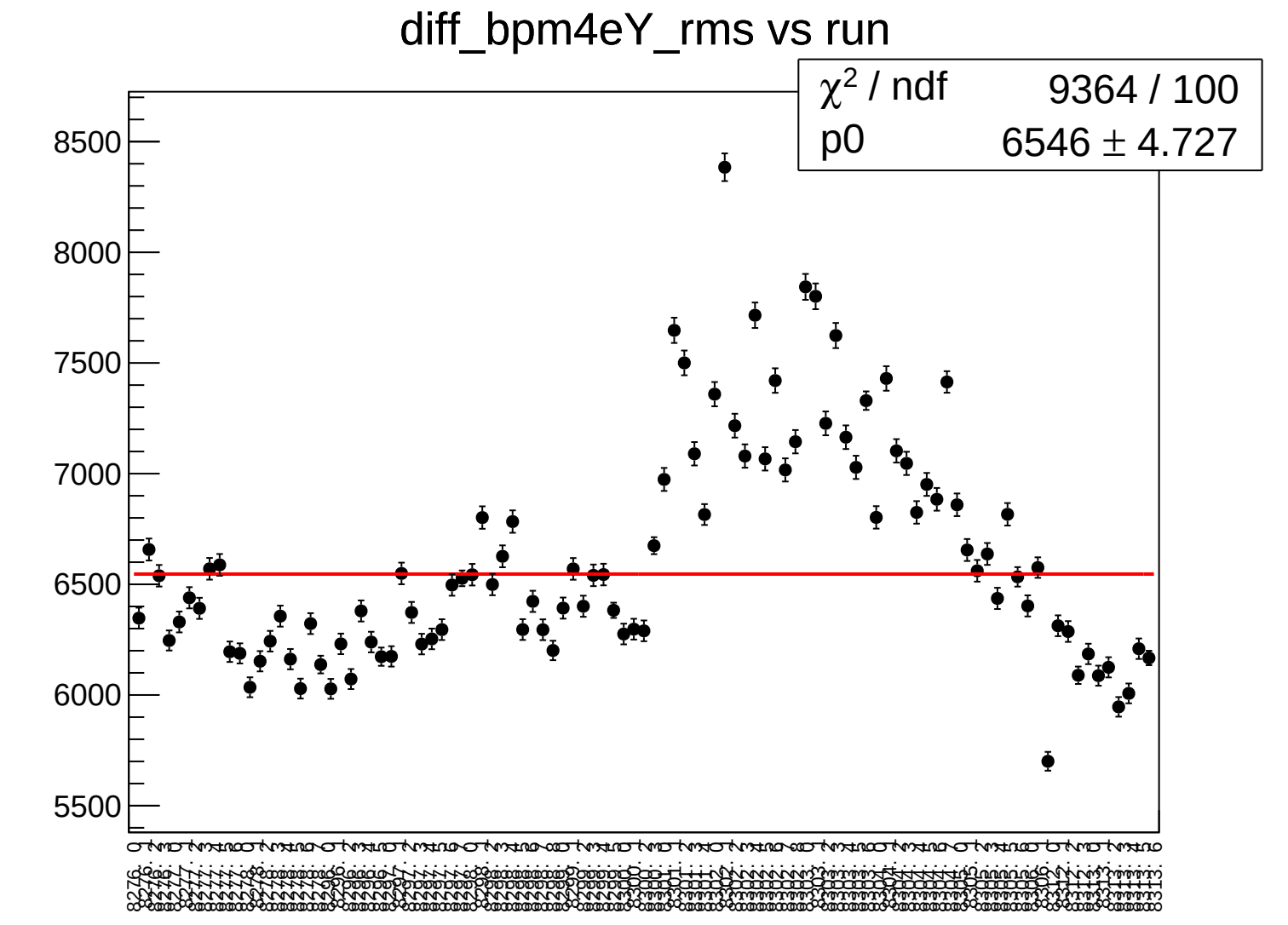

diff_bpm4eX_mean vs run
χ² / ndf 100.4 / 100
p0 −10.03 ± 21.64
pull
Entries 101
Mean −1584
Std Dev 0

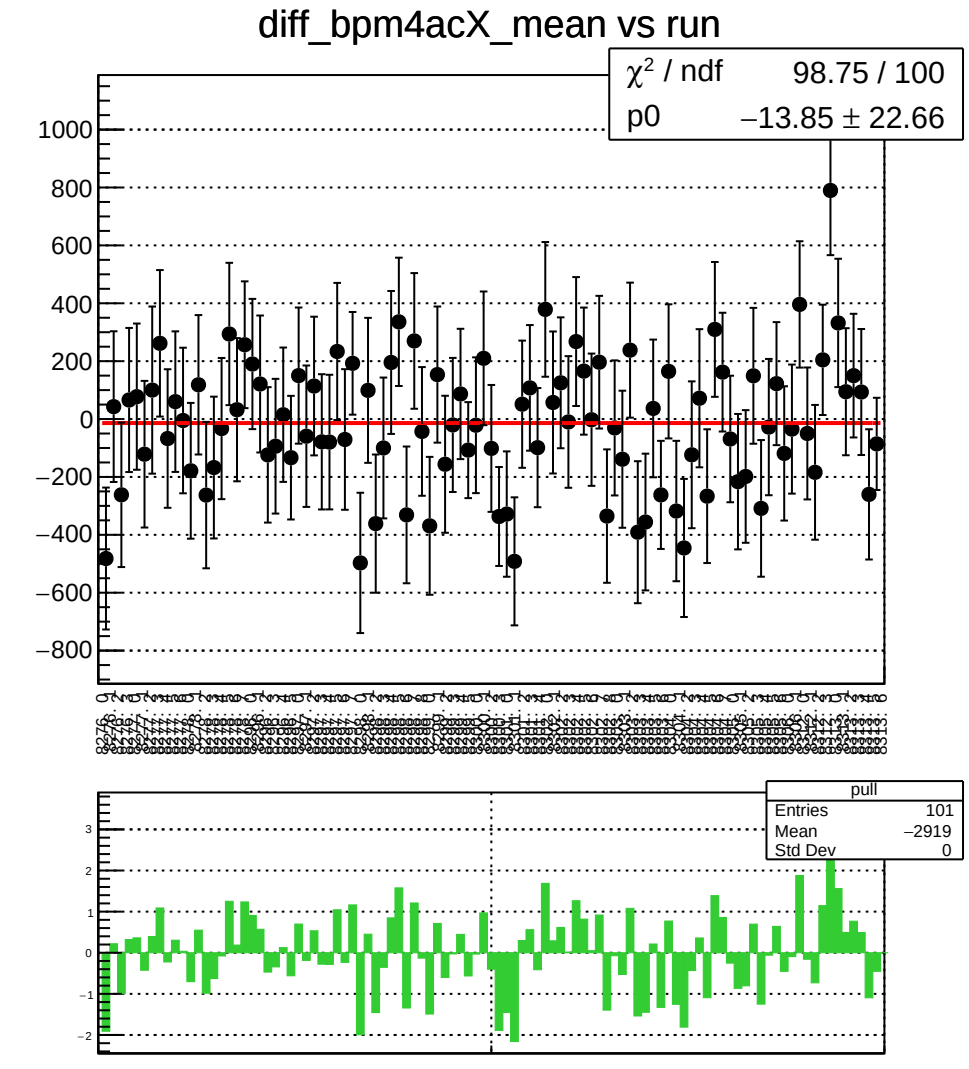

pull1D
Entries 101
Mean −0.001194
Std Dev 0.9971

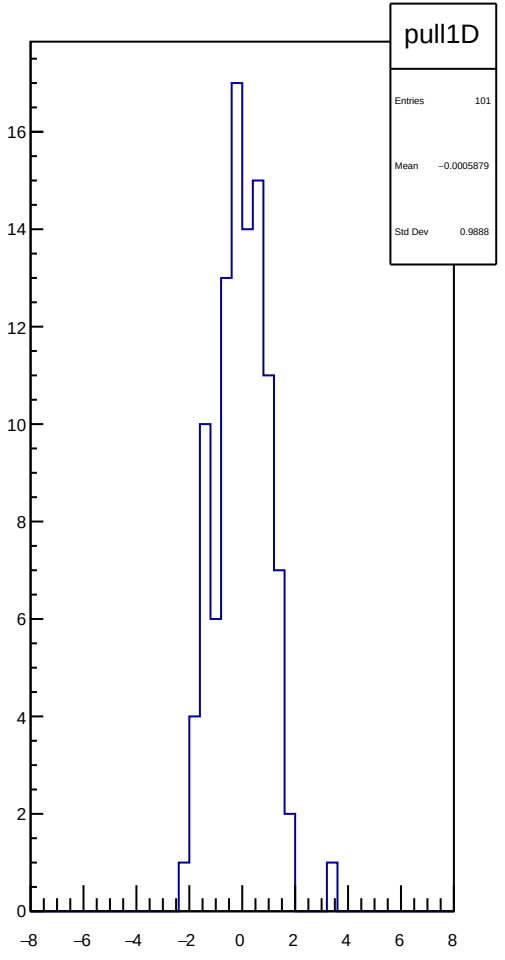

diff_bpm4eX_rms vs run
χ² / ndf 4445 / 100
p0 2.122e+04 ± 15.3
27000
26000
25000
24000
23000
22000
21000
20000
19000


diff_bpm4eY_mean vs run
χ² / ndf 114.3 / 100
p0 9.239 ± 6.685
200
100
0
−100
−200
pull
Entries 101
Mean 792.5
Std Dev 0
2
1
0
−1
−2

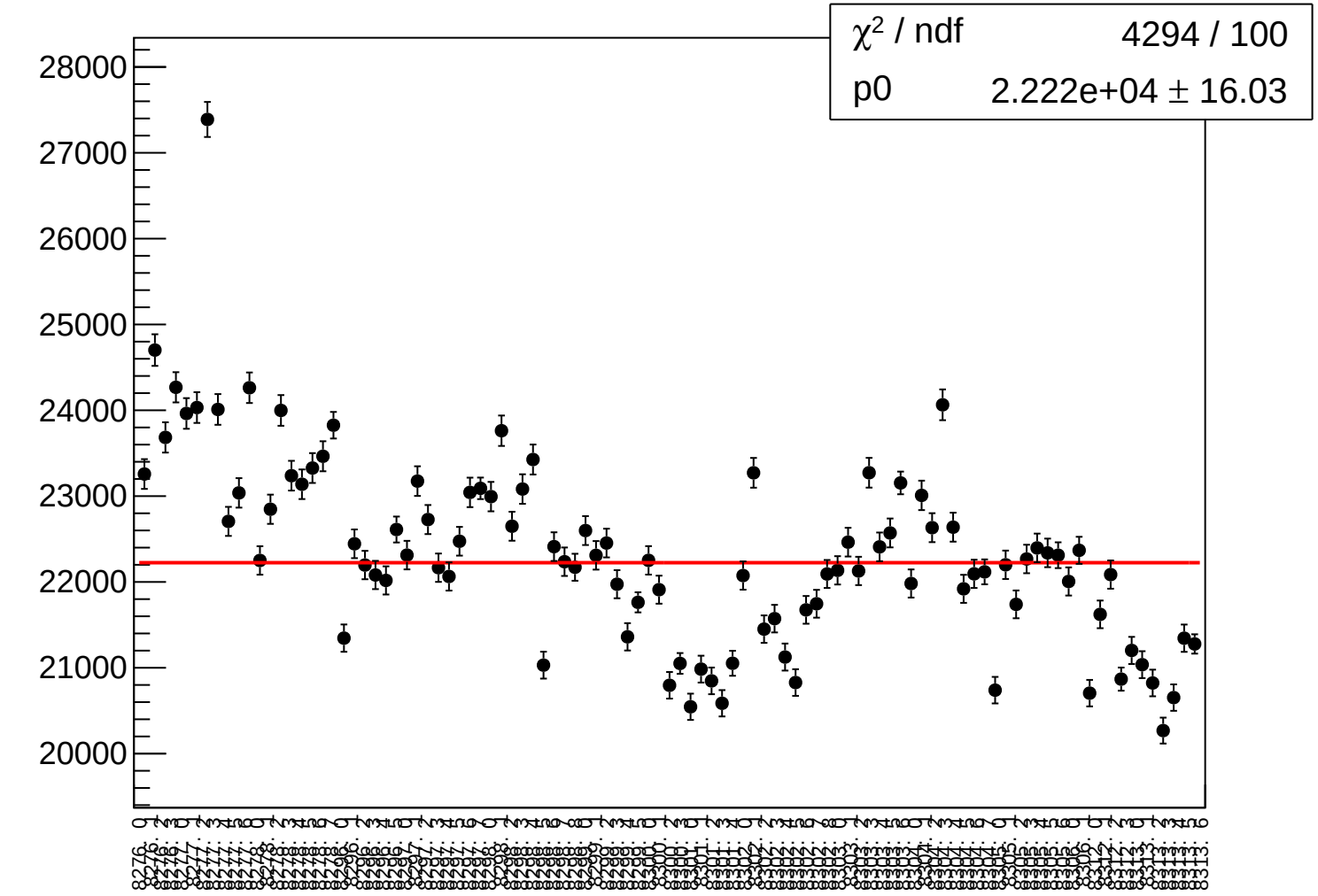

pull1D
Entries 101
Mean 0.01307
Std Dev 1.064
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

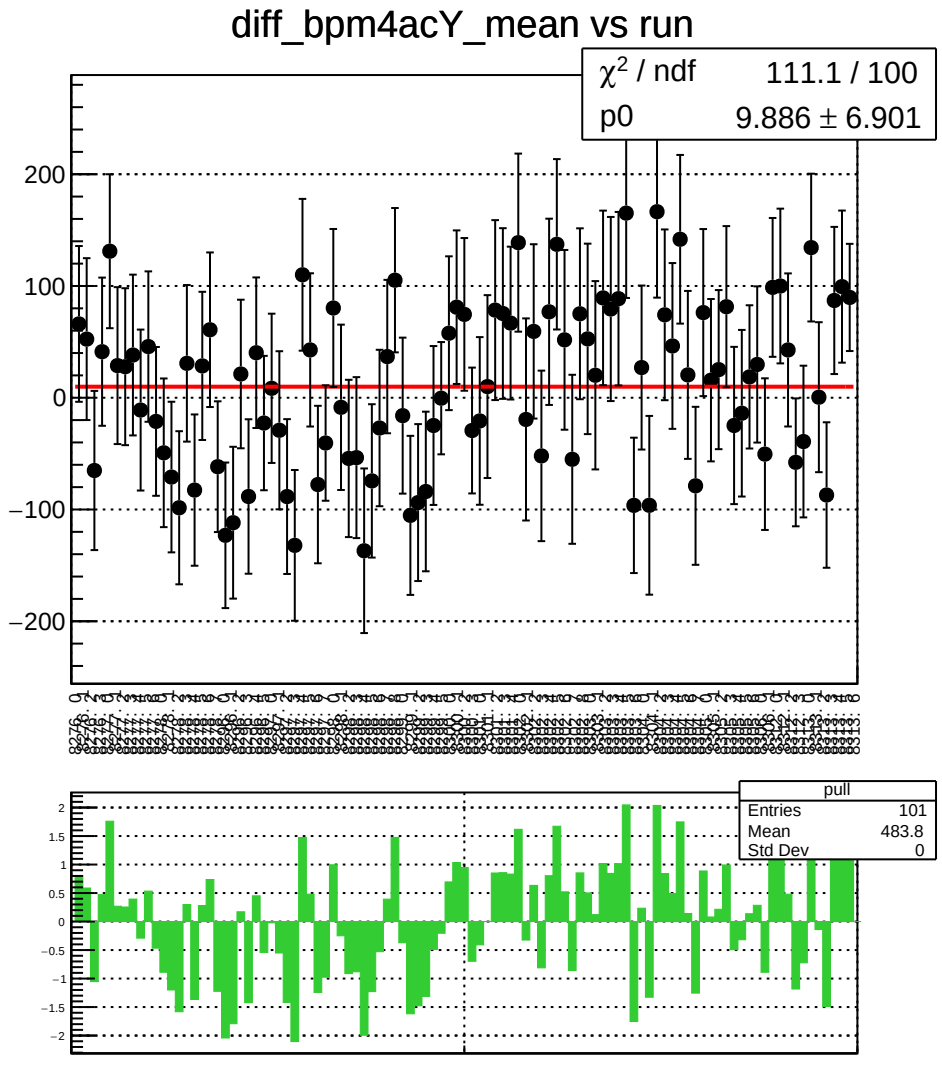

diff_bpm4eY_rms vs run
χ² / ndf 9364 / 100
p0 6546 ± 4.727
8500
8000
7500
7000
6500
6000
5500

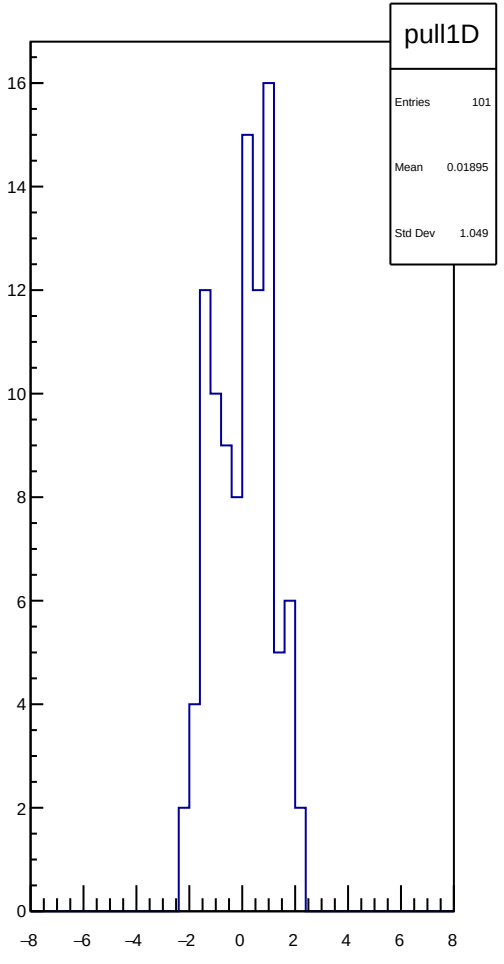

diff_bpm4acX_mean vs run
χ² / ndf 98.75 / 100
p0 −13.85 ± 22.66
pull
Entries 101
Mean −2919
Std Dev 0

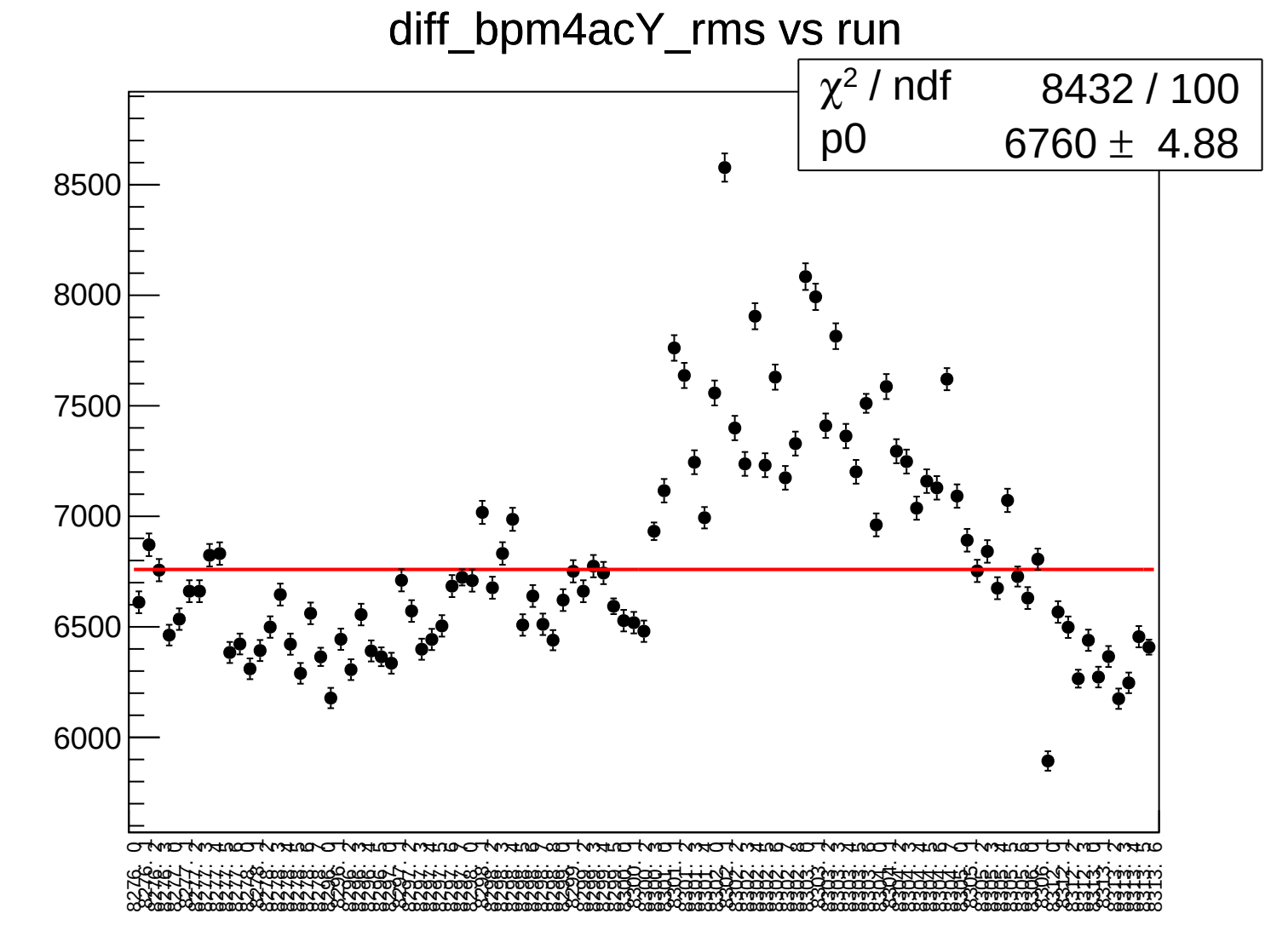

pull1D
Entries 101
Mean −0.0005879
Std Dev 0.9888

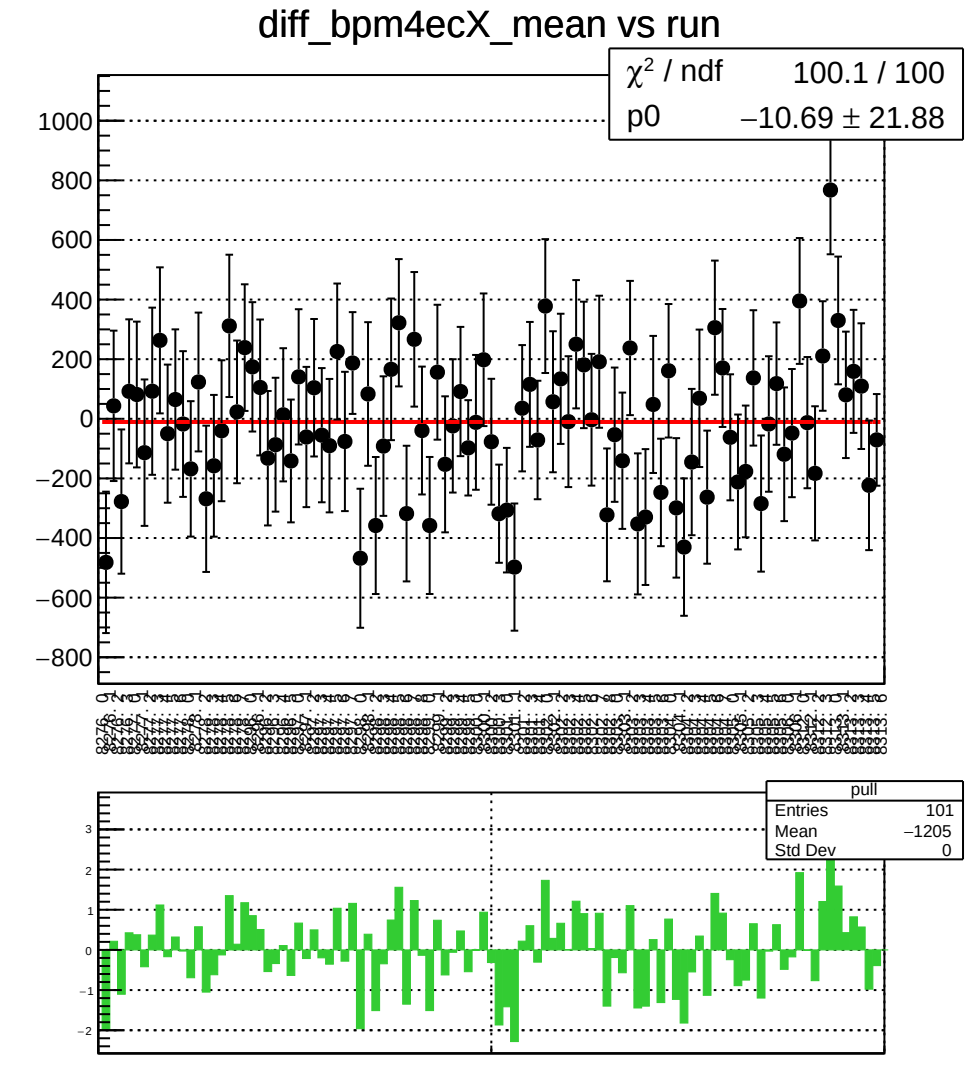
diff_bpm4acX_rms vs run

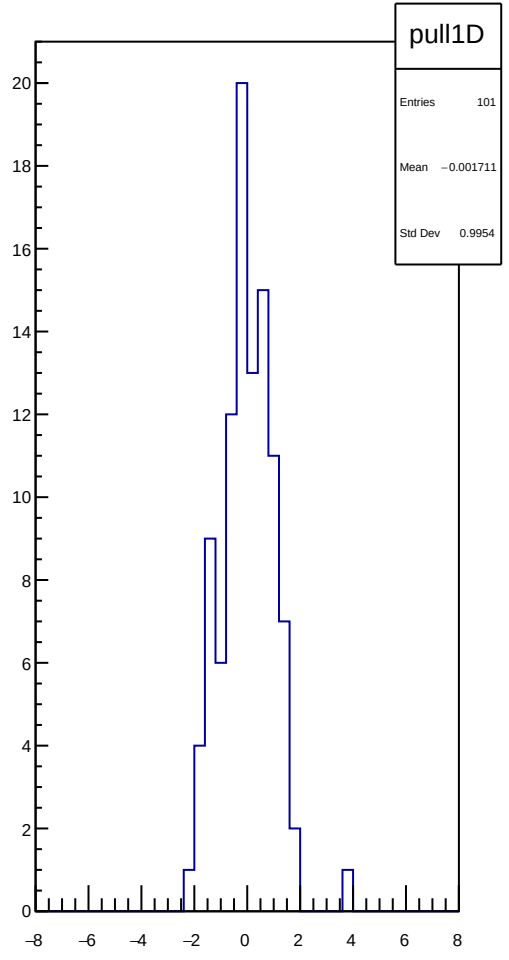


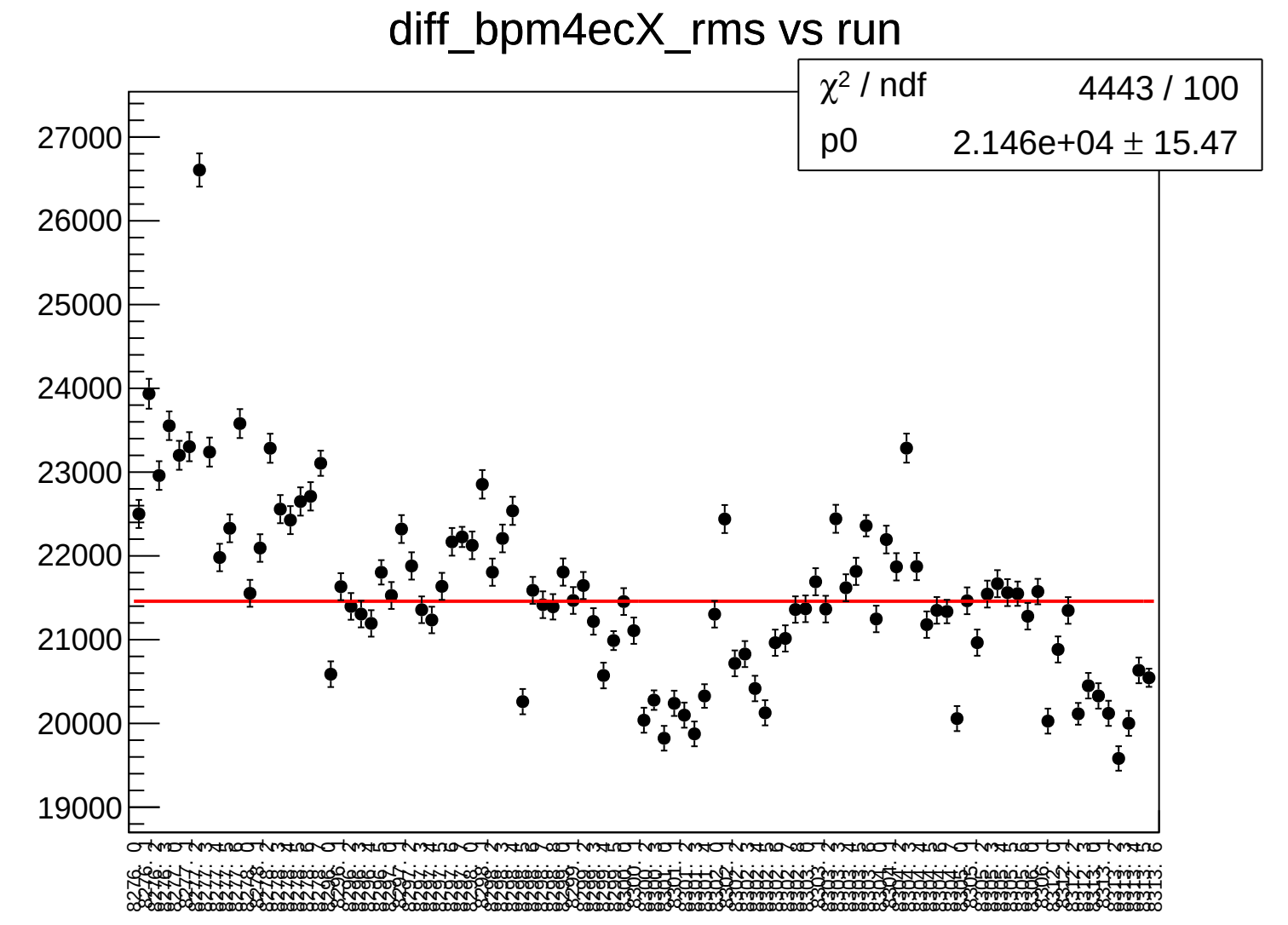

diff_bpm4acY_mean vs run
χ² / ndf 111.1 / 100
p0 9.886 ± 6.901
200
100
0
−100
−200
pull
Entries 101
Mean 483.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

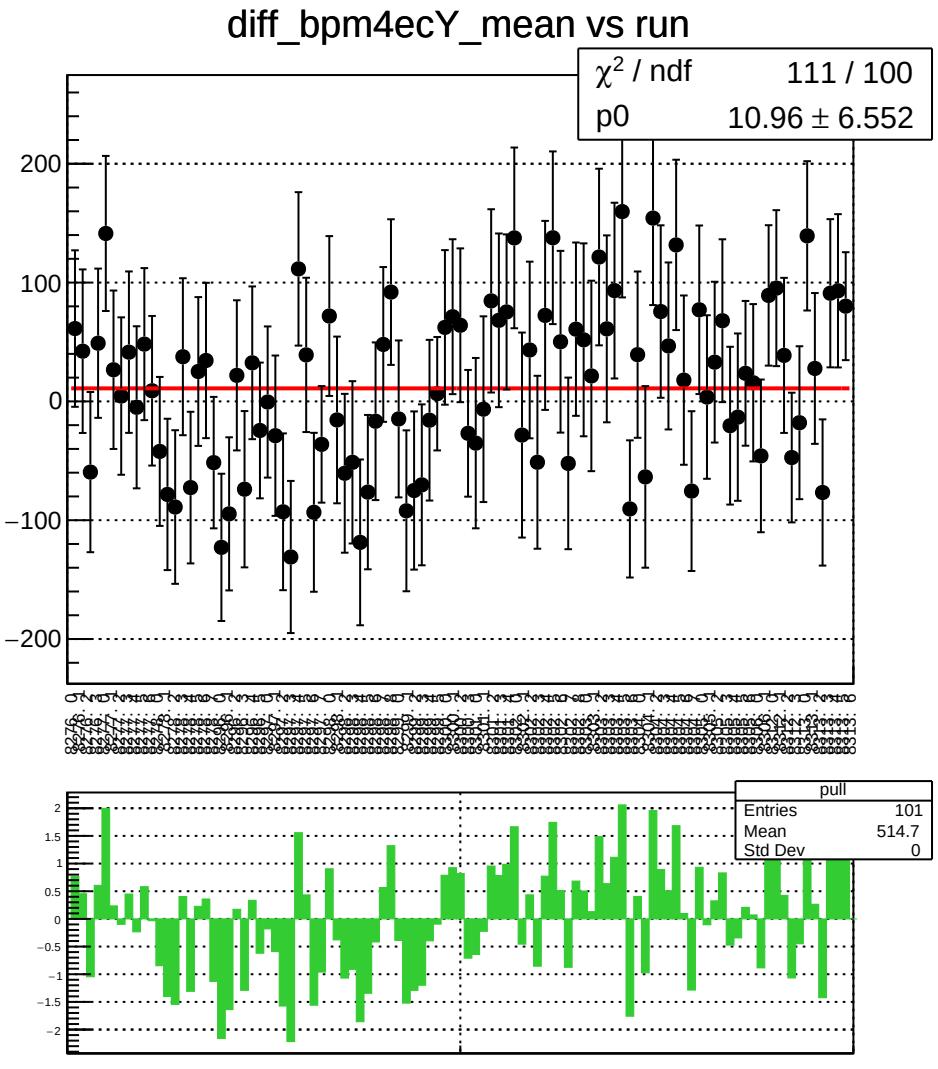

pull1D
Entries 101
Mean 0.01895
Std Dev 1.049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

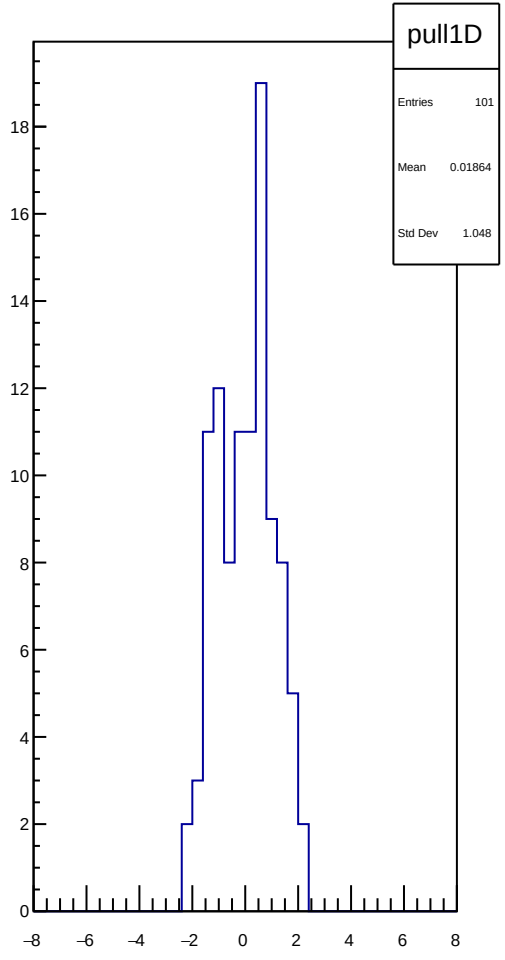

diff_bpm4acY_rms vs run
χ² / ndf 8432 / 100
p0 6760 ± 4.88
8500
8000
7500
7000
6500
6000

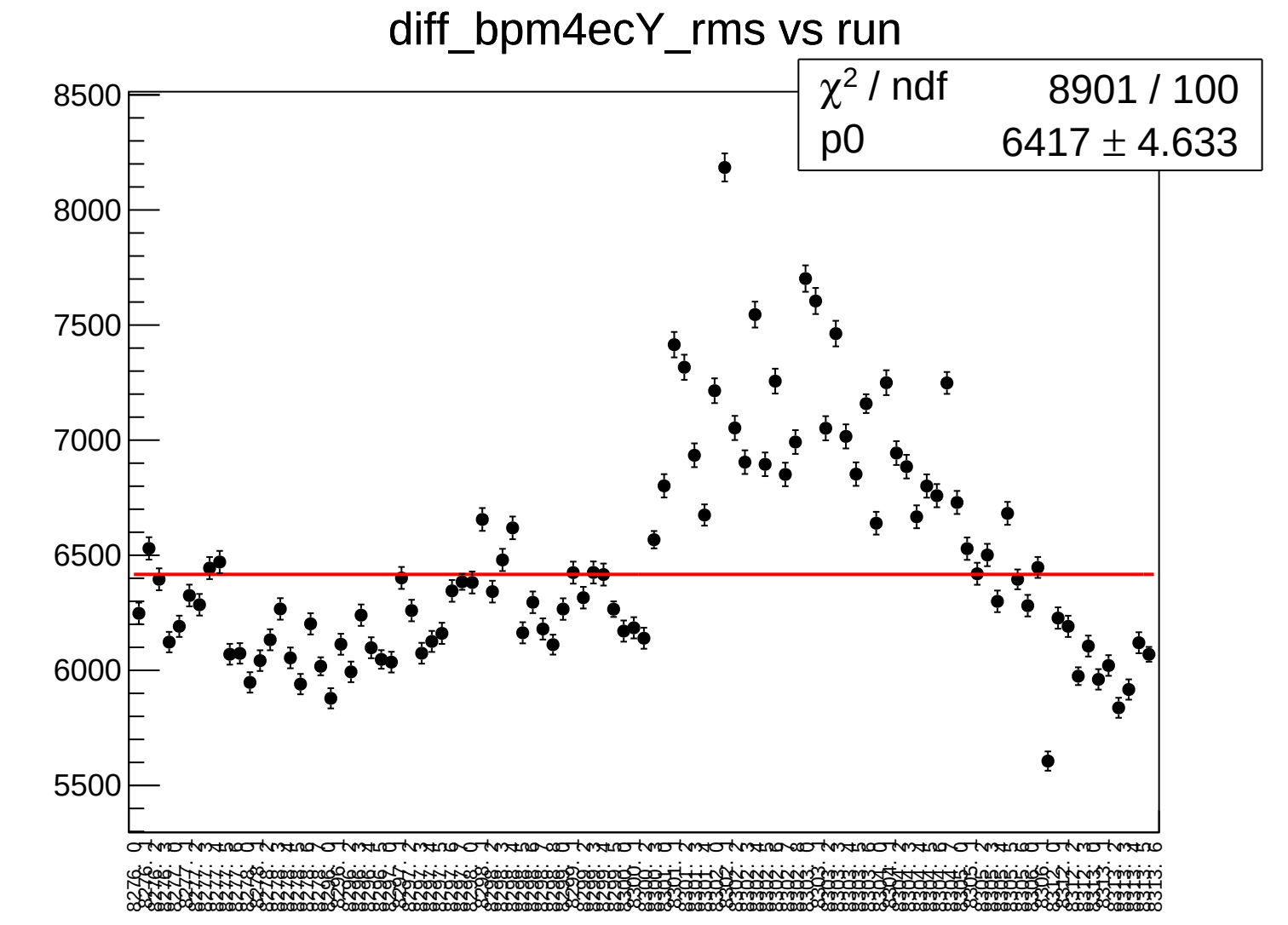

diff_bpm4ecX_mean vs run
χ² / ndf 100.1 / 100
p0 −10.69 ± 21.88
1000
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 101
Mean −1205
Std Dev 0
3
2
1
0
−1
−2

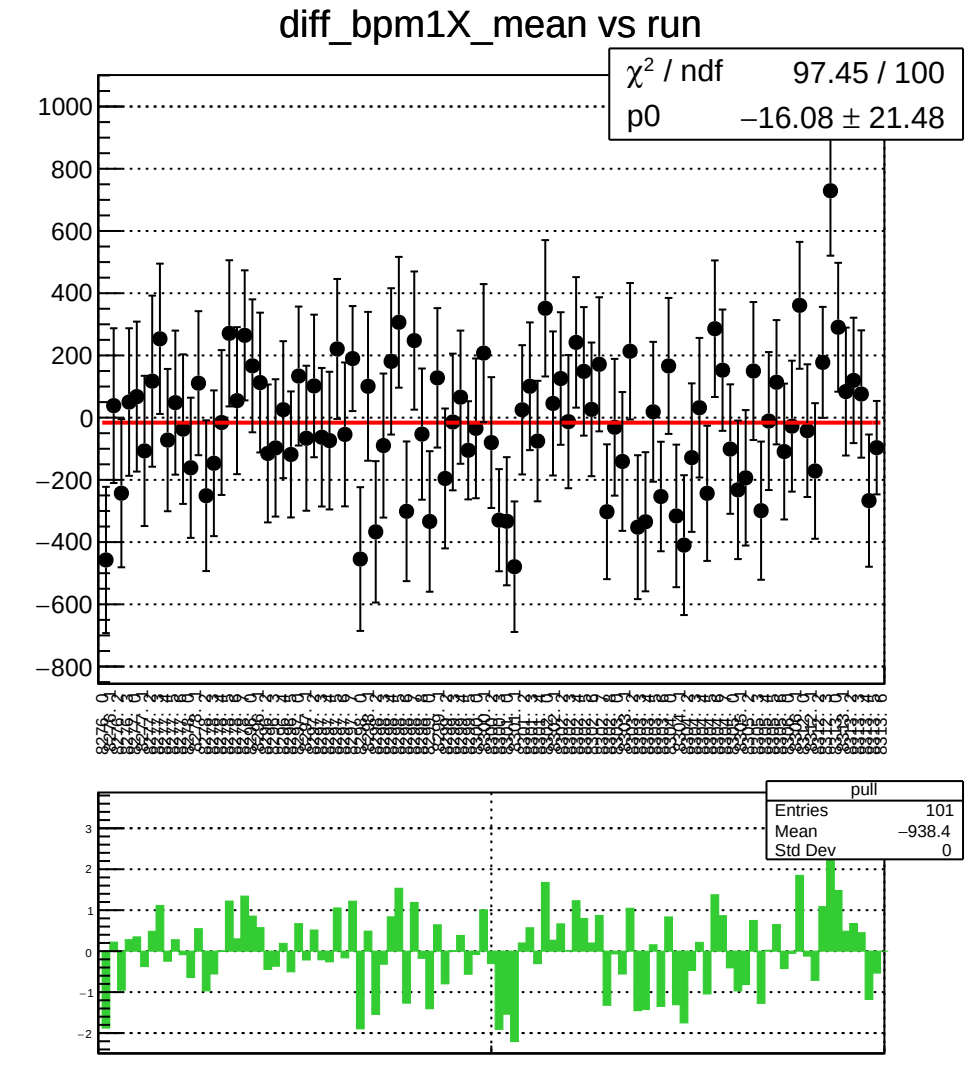

pull1D
Entries 101
Mean −0.001711
Std Dev 0.9954
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

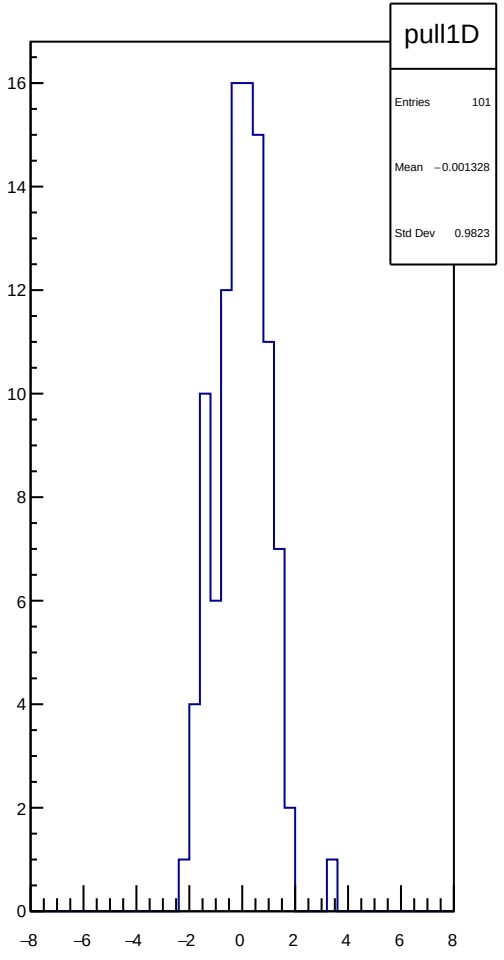

diff_bpm4ecX_rms vs run
χ² / ndf 4443 / 100
p0 2.146e+04 ± 15.47
27000
26000
25000
24000
23000
22000
21000
20000
19000

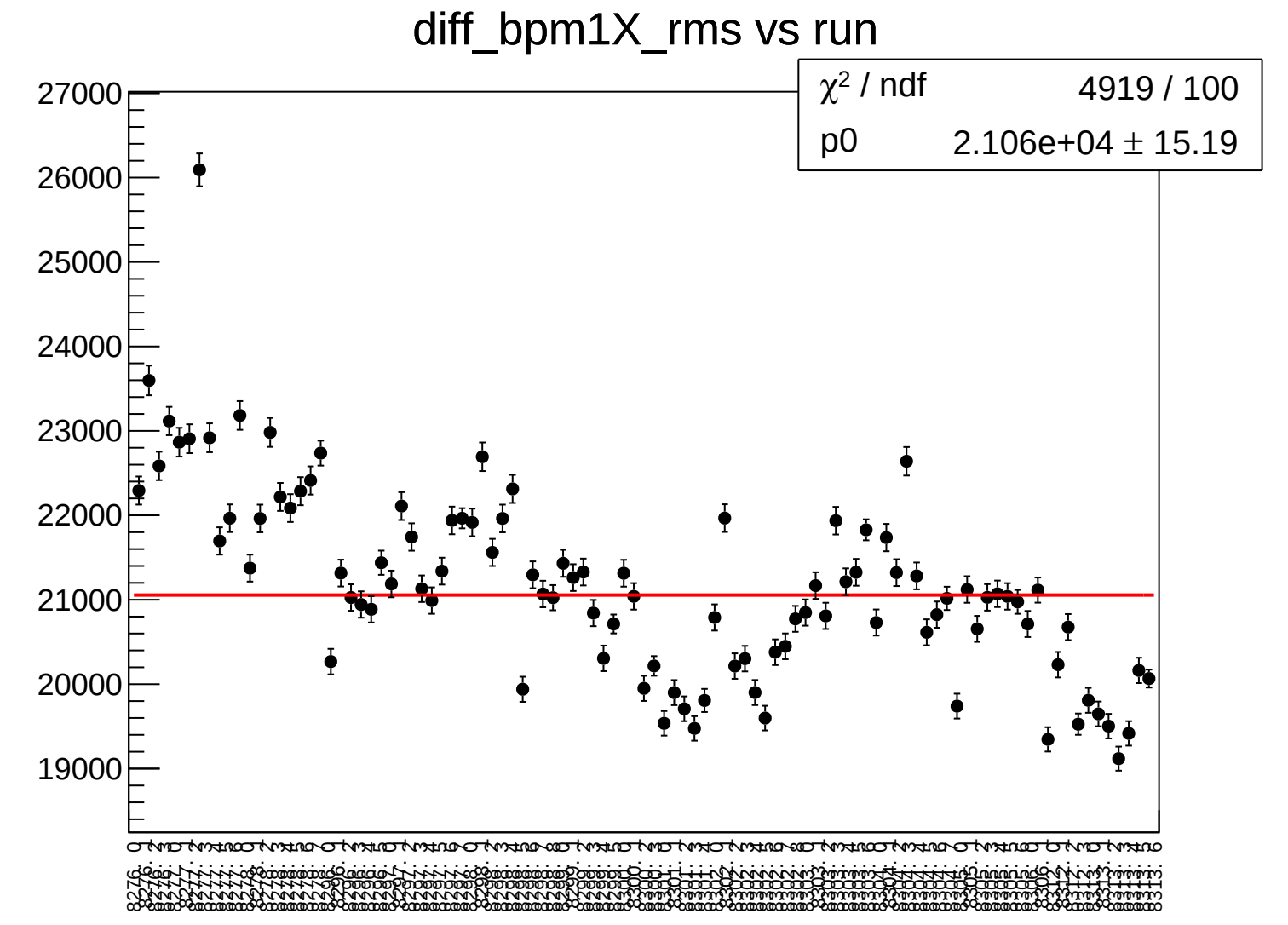

diff_bpm4ecY_mean vs run
χ² / ndf 111 / 100
p0 10.96 ± 6.552
200
100
0
−100
−200
pull
Entries 101
Mean 514.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

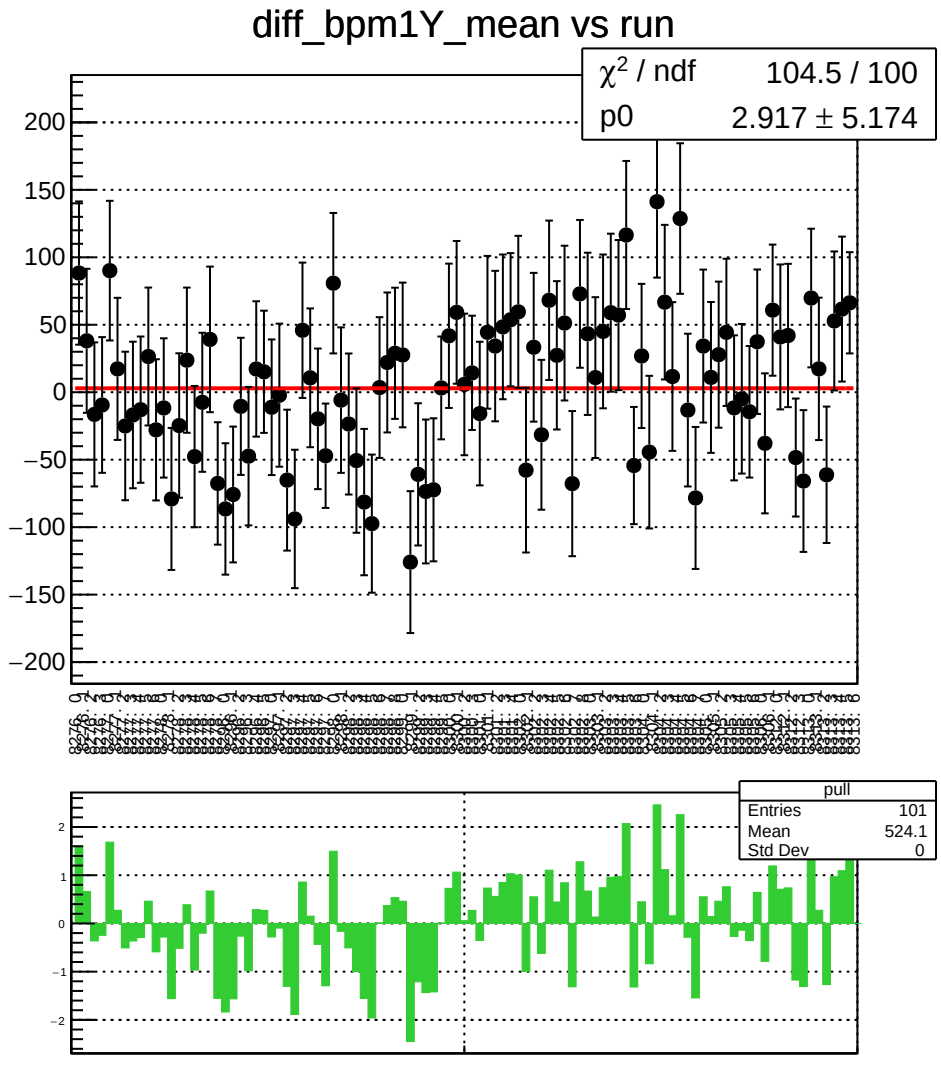

pull1D
Entries 101
Mean 0.01864
Std Dev 1.048
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

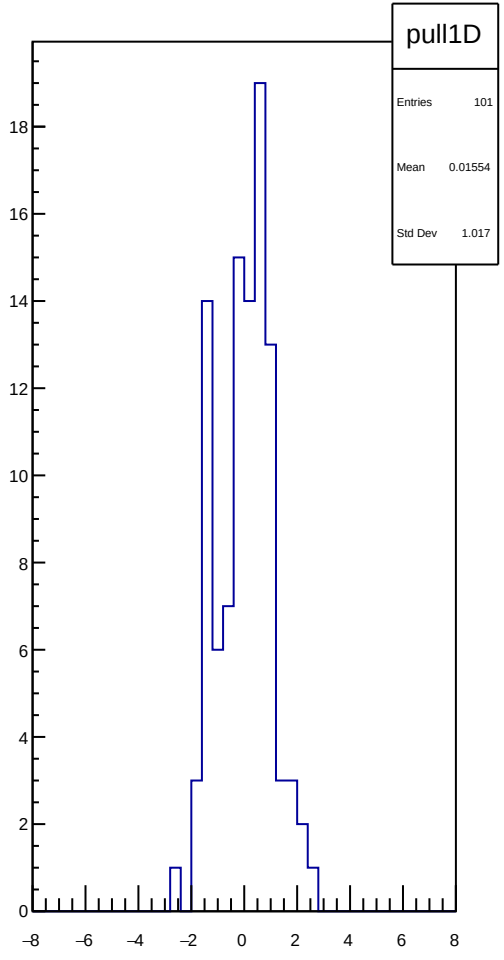

diff_bpm4ecY_rms vs run
χ² / ndf 8901 / 100
p0 6417 ± 4.633
8500
8000
7500
7000
6500
6000
5500

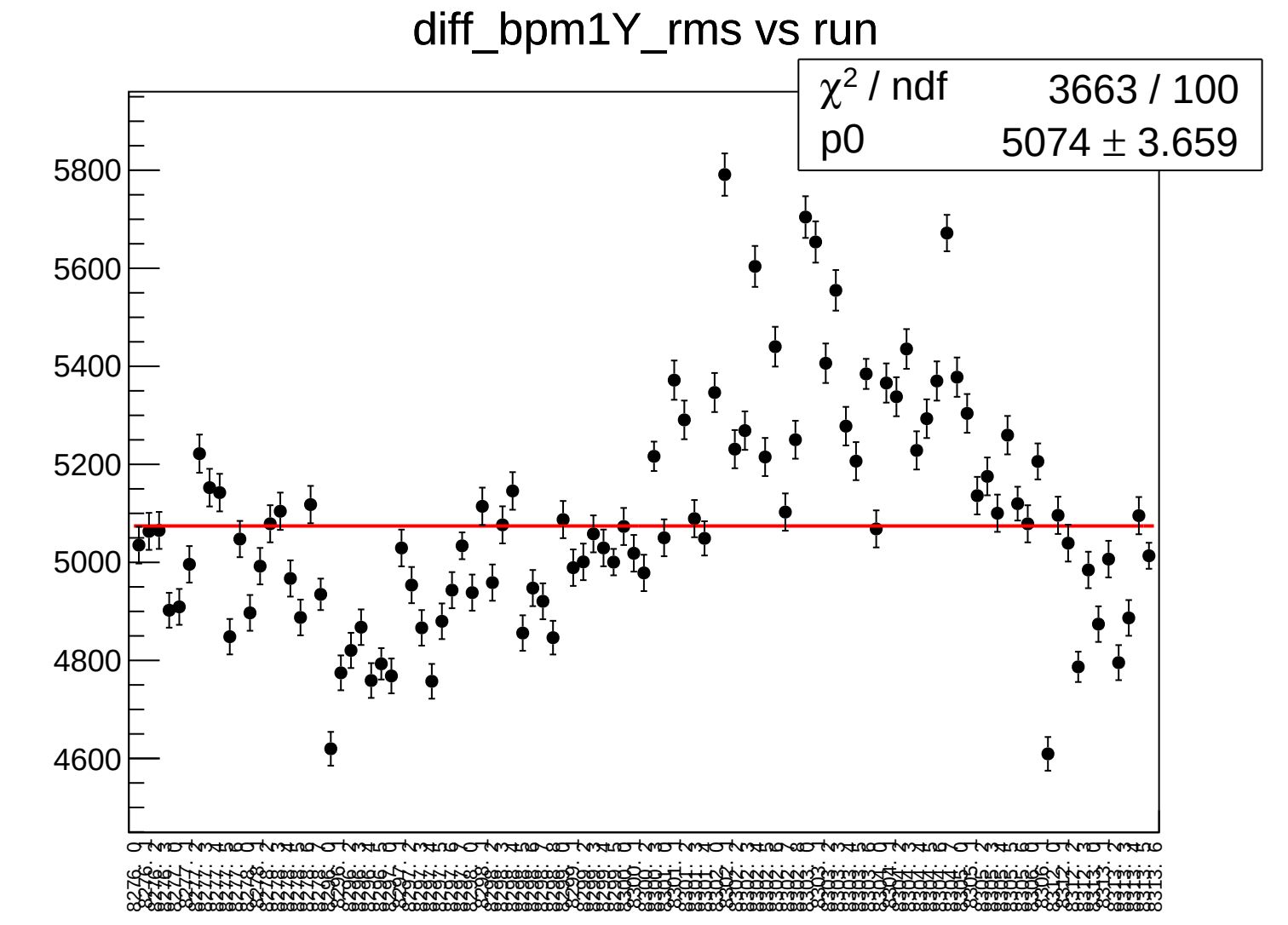

diff_bpm1X_mean vs run
χ² / ndf 97.45 / 100
p0 −16.08 ± 21.48
pull
Entries 101
Mean −938.4
Std Dev 0

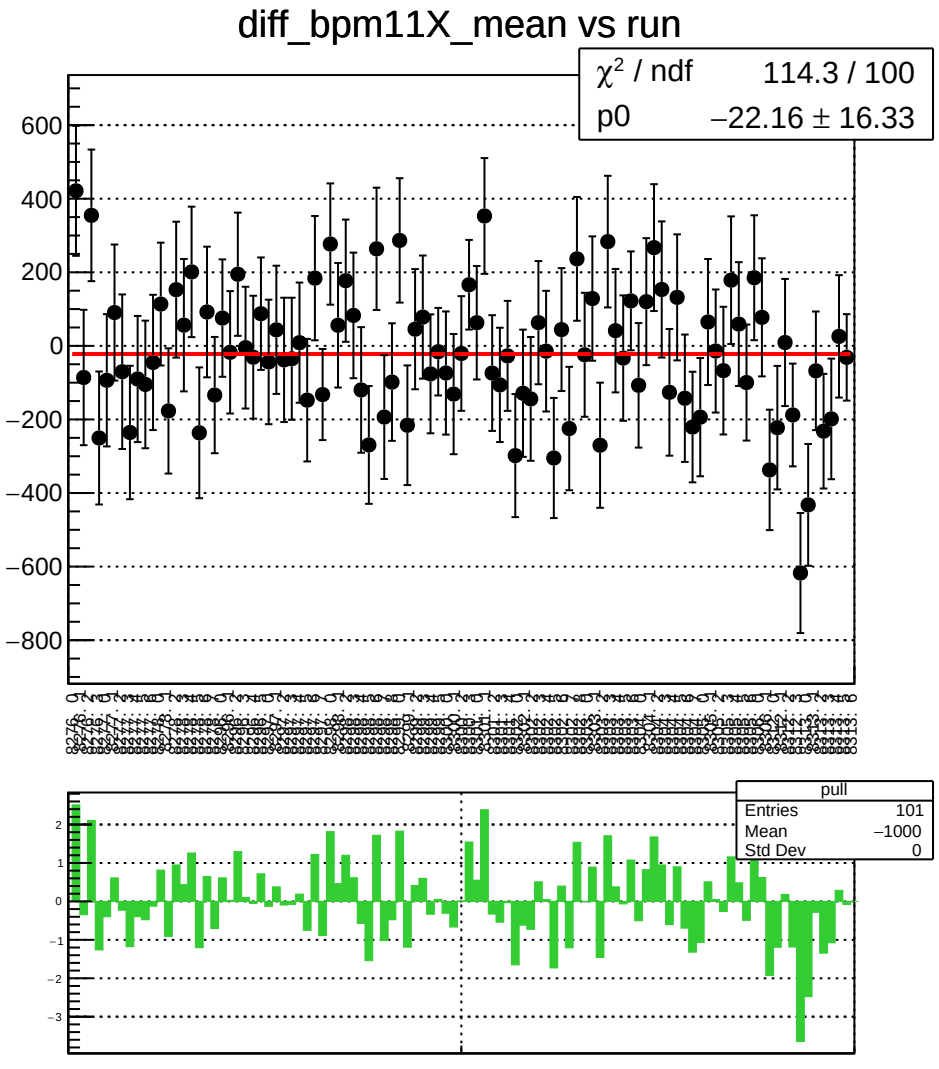

pull1D
Entries 101
Mean −0.001328
Std Dev 0.9823

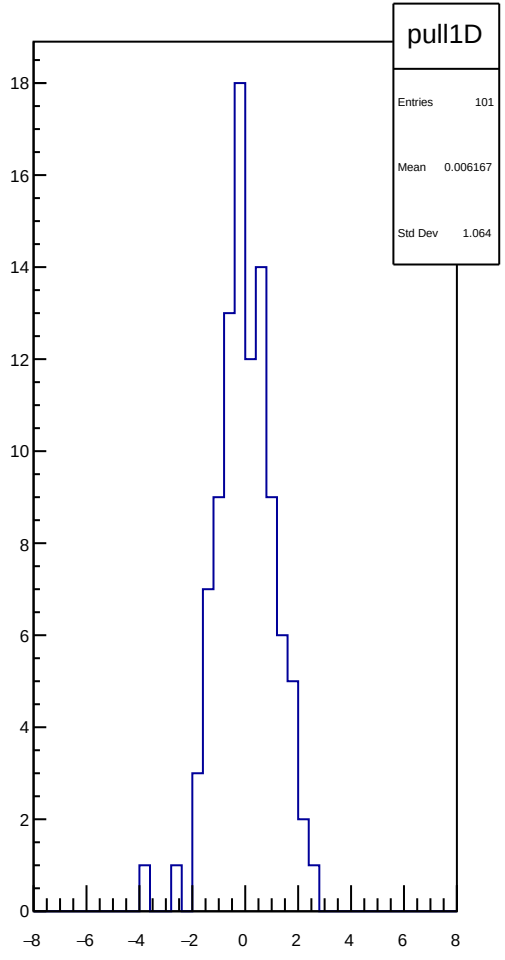

diff_bpm1X_rms vs run
χ² / ndf 4919 / 100
p0 2.106e+04 ± 15.19
27000
26000
25000
24000
23000
22000
21000
20000
19000

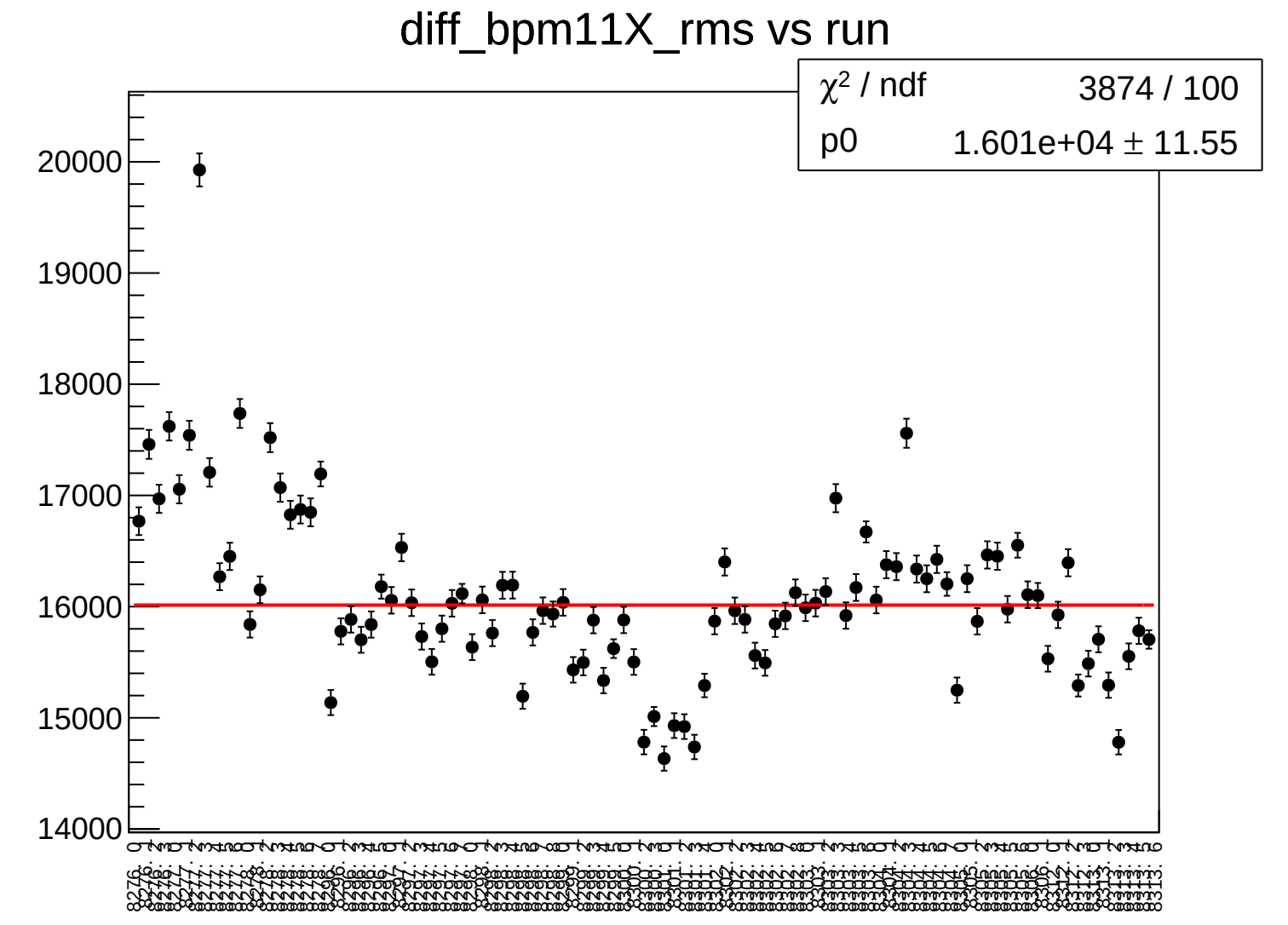

diff_bpm1Y_mean vs run
χ² / ndf 104.5 / 100
p0 2.917 ± 5.174
pull
Entries 101
Mean 524.1
Std Dev 0

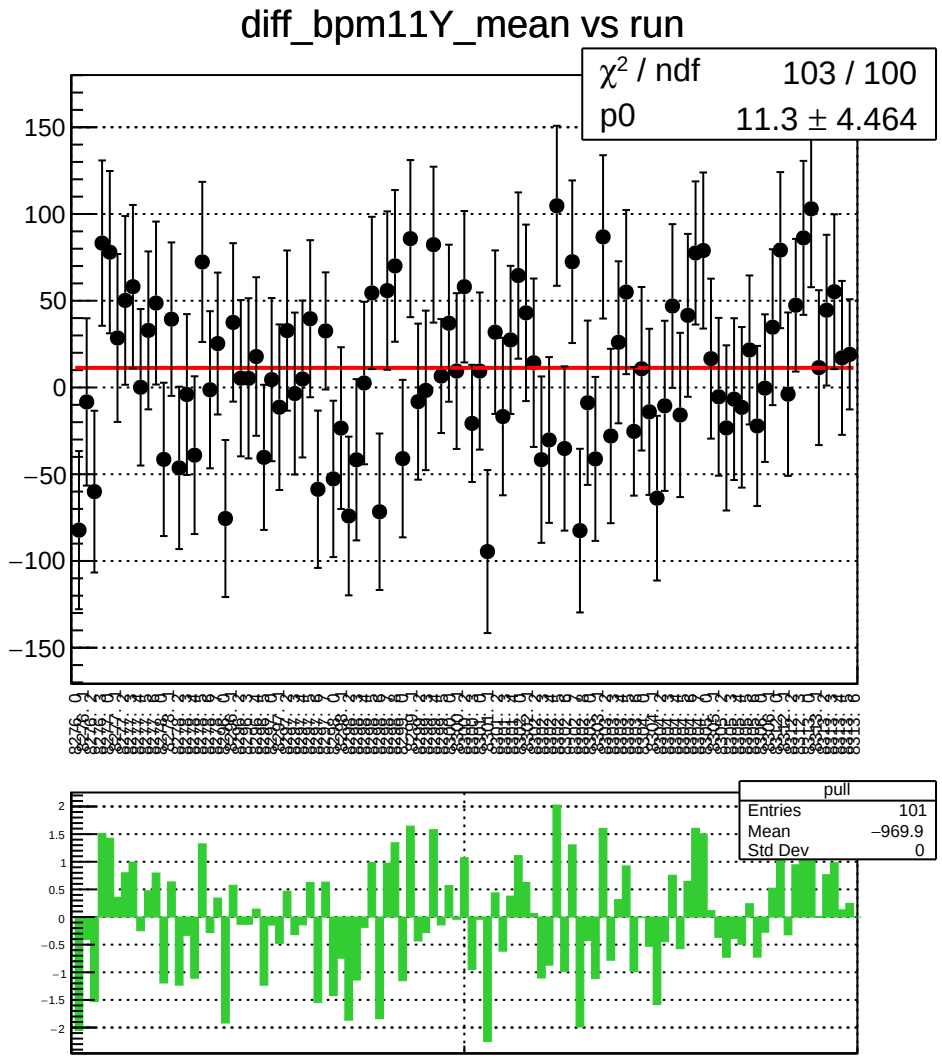

pull1D
Entries 101
Mean 0.01554
Std Dev 1.017

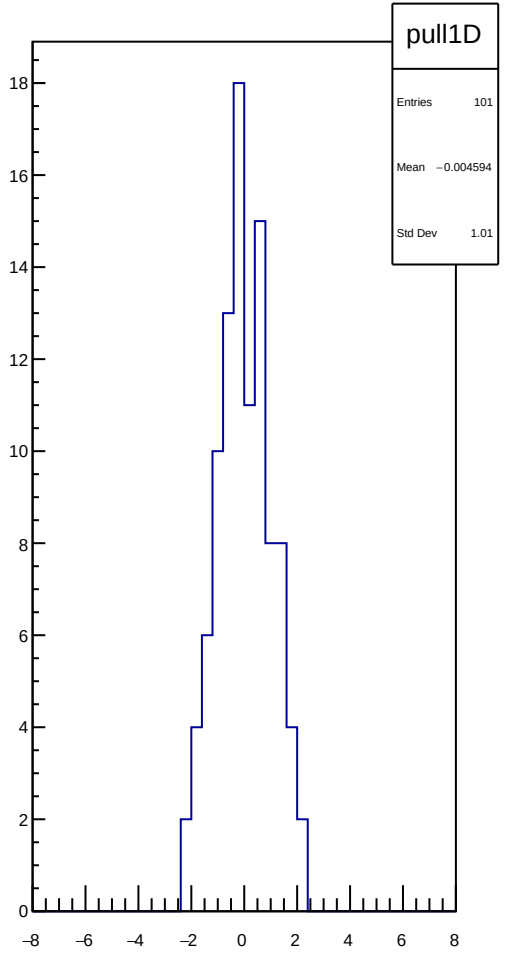

diff_bpm1Y_rms vs run
χ^2 / ndf 3663 / 100
p0 5074 ± 3.659
5800
5600
5400
5200
5000
4800
4600

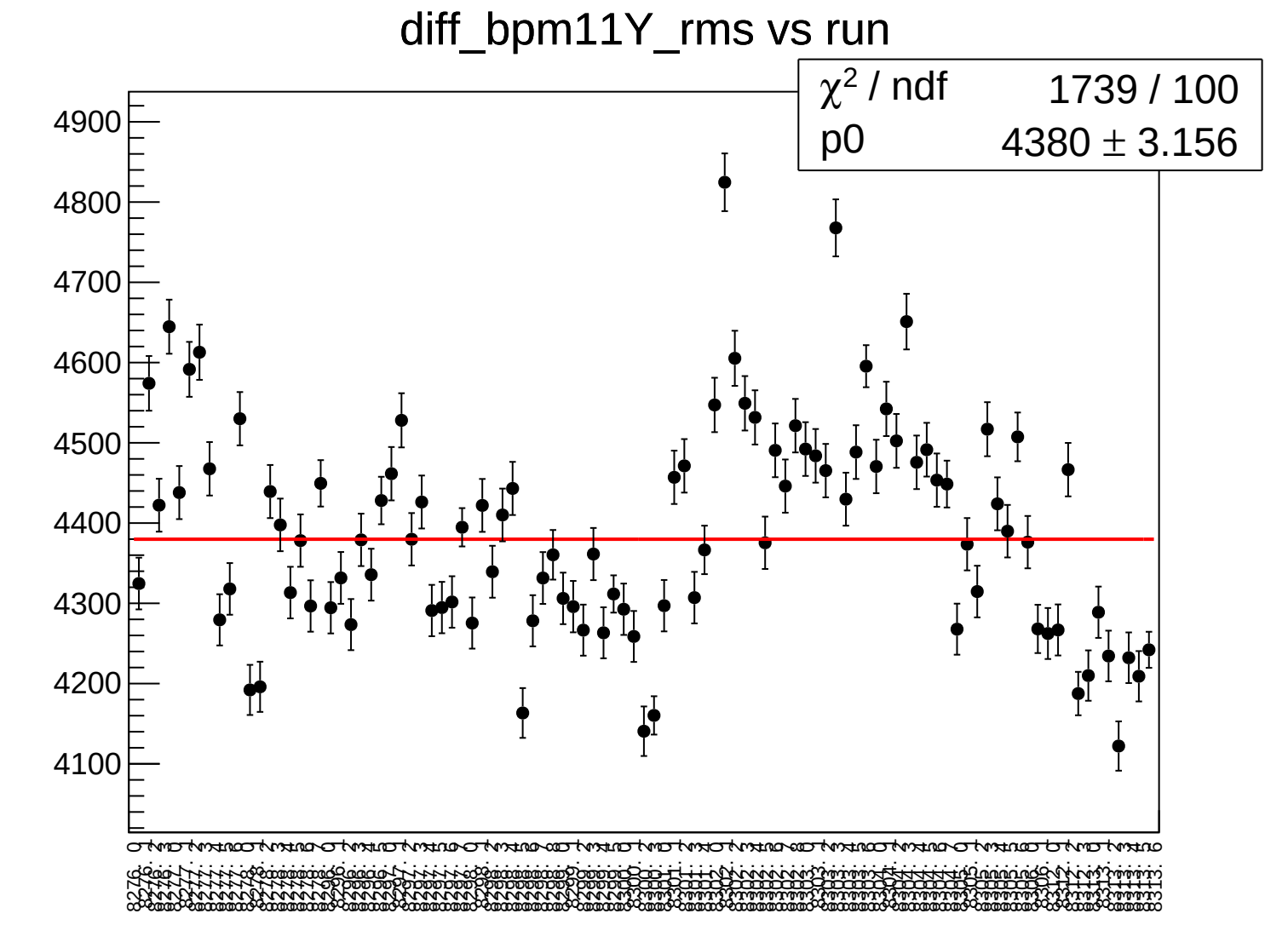

diff_bpm11X_mean vs run
χ² / ndf 114.3 / 100
p0 −22.16 ± 16.33
pull
Entries 101
Mean −1000
Std Dev 0

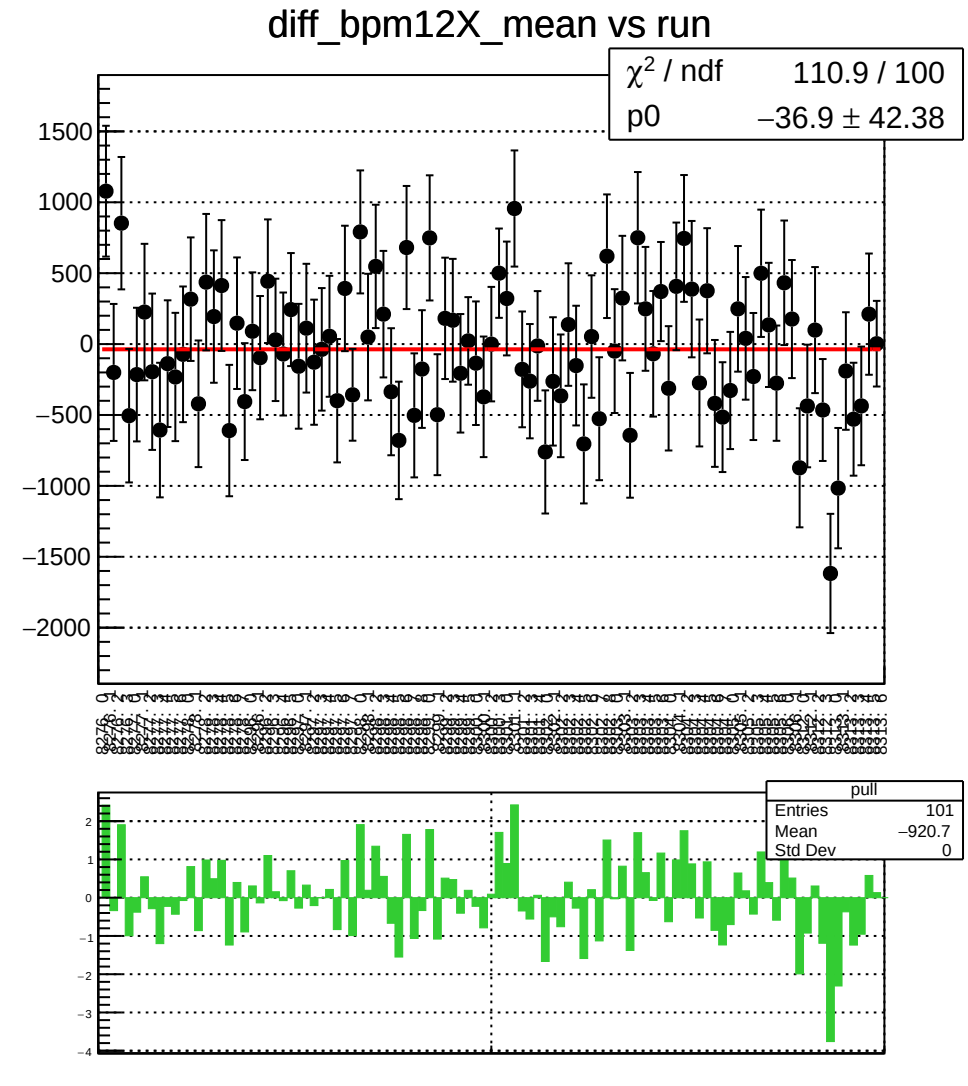

pull1D
Entries 101
Mean 0.006167
Std Dev 1.064

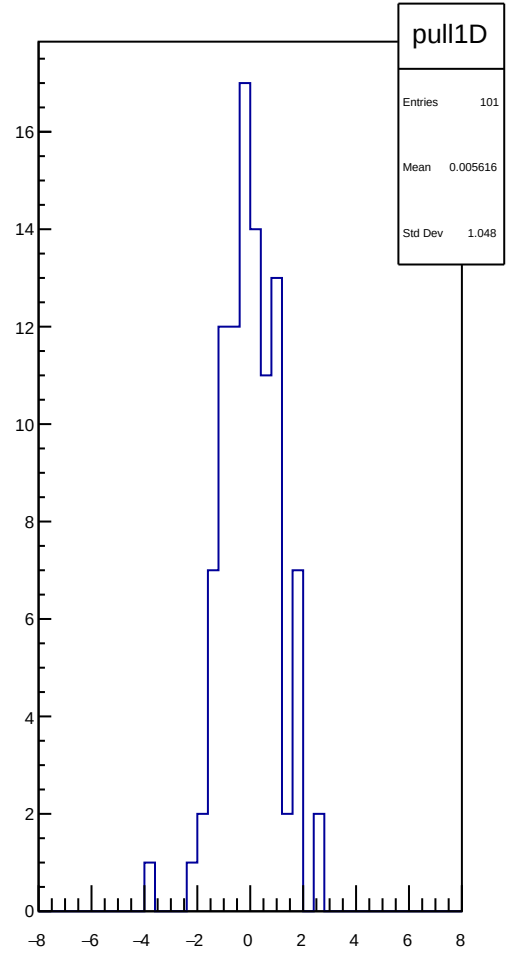

diff_bpm11X_rms vs run
χ² / ndf 3874 / 100
p0 1.601e+04 ± 11.55
20000
19000
18000
17000
16000
15000
14000

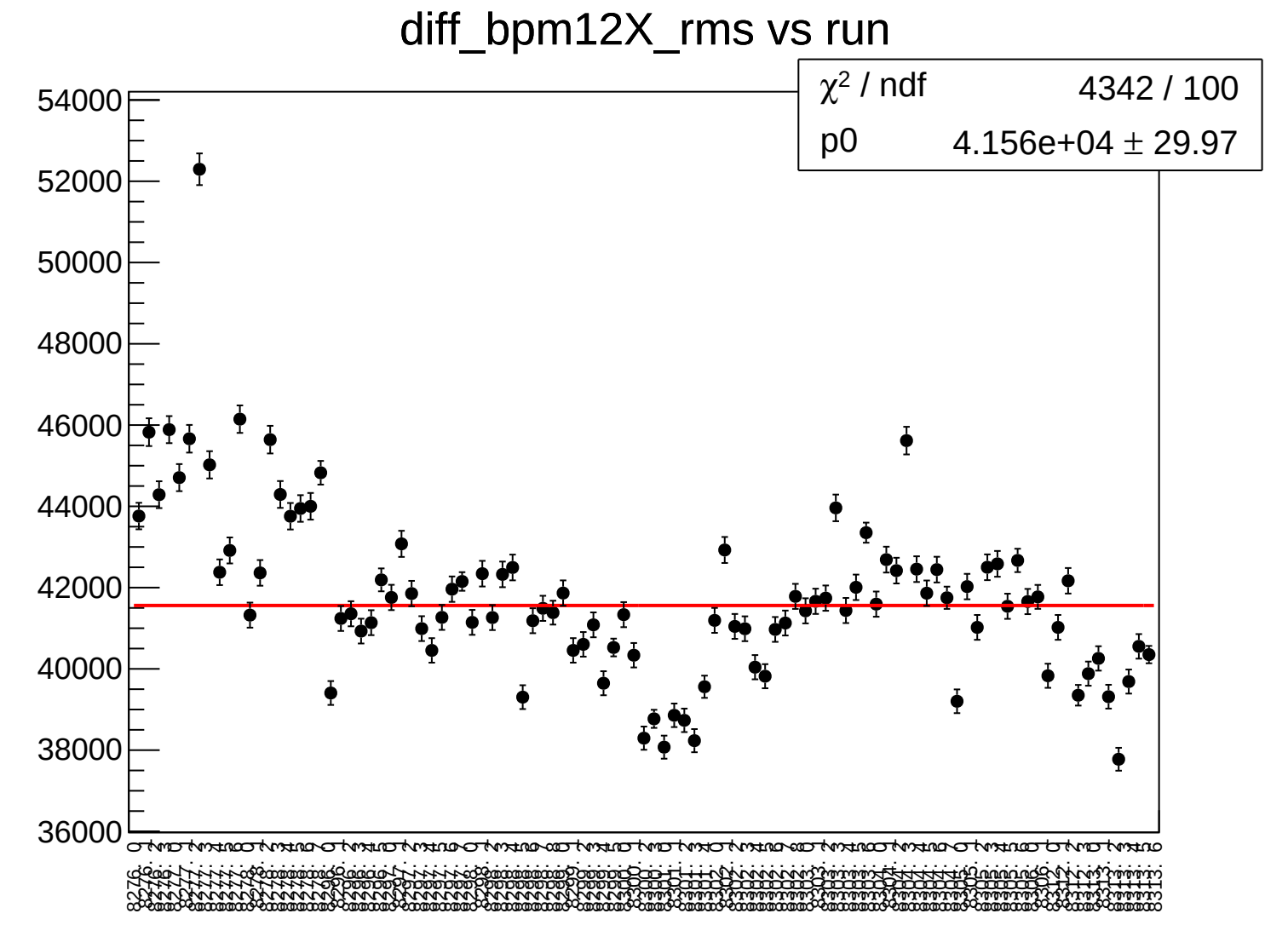

diff_bpm11Y_mean vs run
χ² / ndf 103 / 100
p0 11.3 ± 4.464
150
100
50
0
−50
−100
−150
pull
Entries 101
Mean −969.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

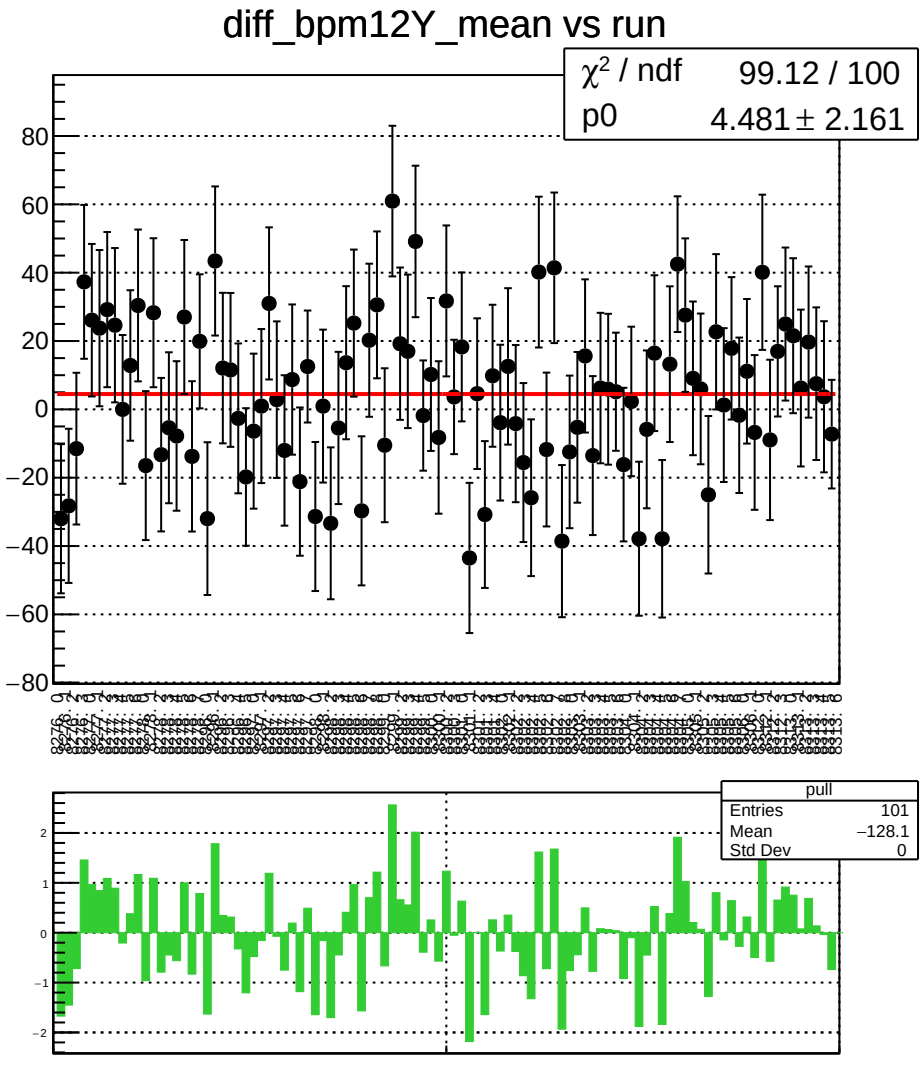

pull1D
Entries 101
Mean −0.004594
Std Dev 1.01
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

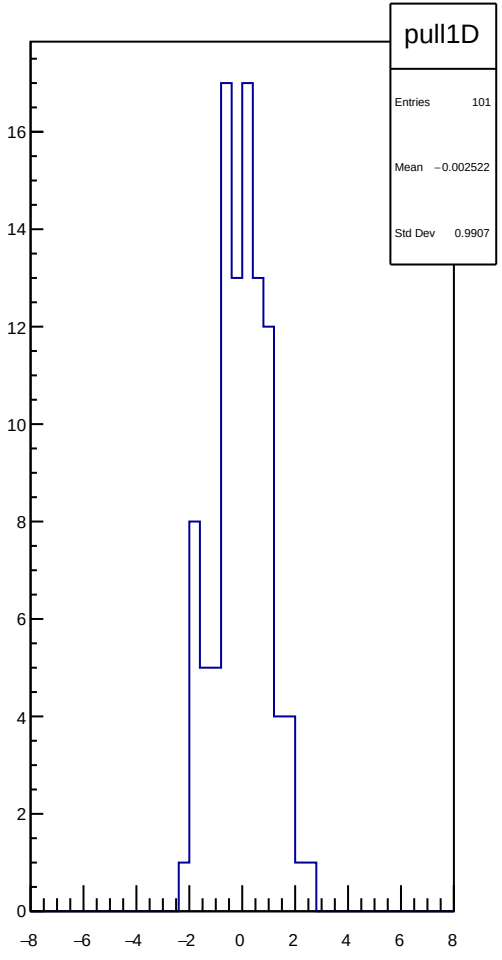

diff_bpm11Y_rms vs run
χ² / ndf 1739 / 100
p0 4380 ± 3.156
4900
4800
4700
4600
4500
4400
4300
4200
4100

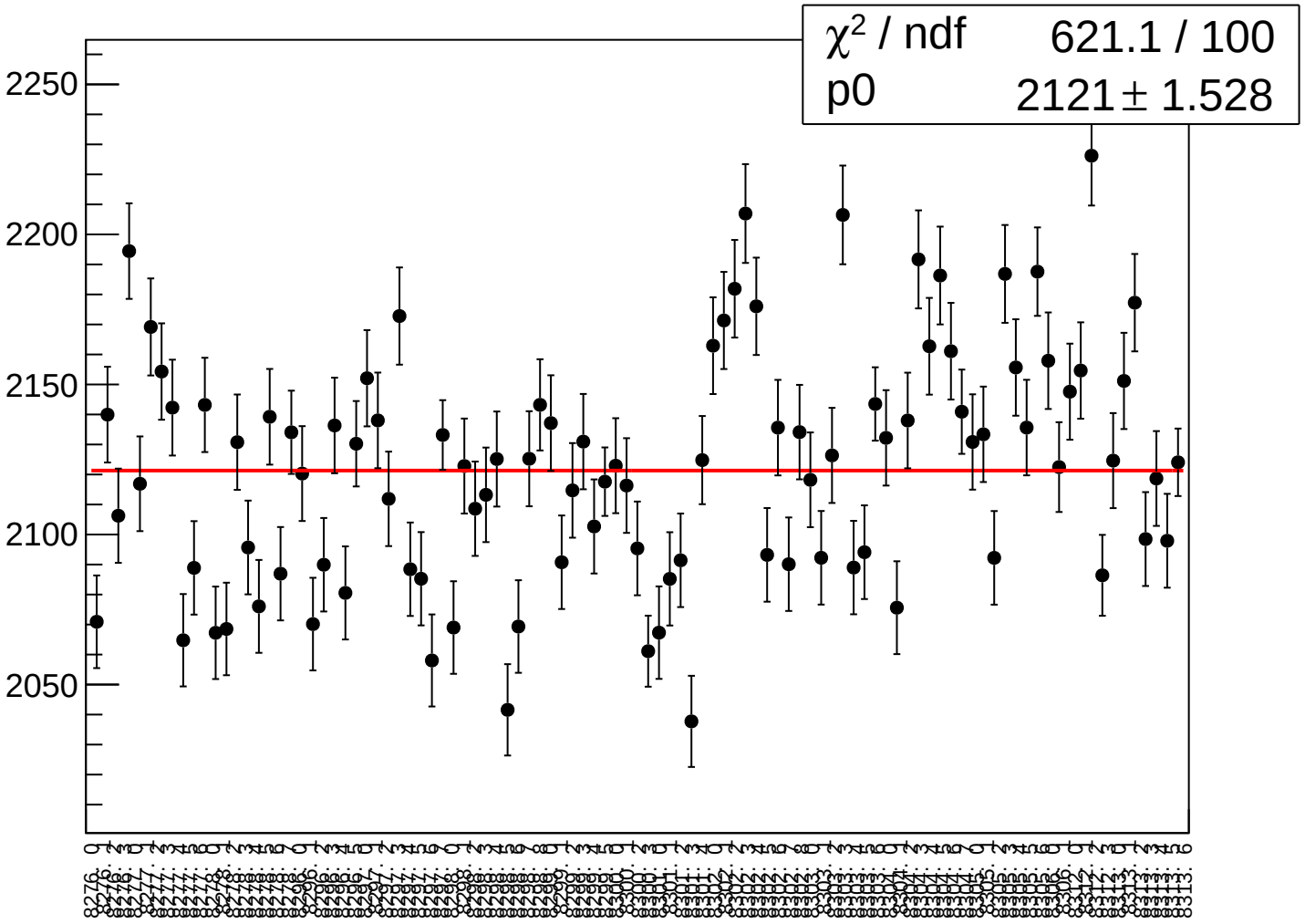

diff_bpm12X_mean vs run
χ² / ndf 110.9 / 100
p0 −36.9 ± 42.38
pull
Entries 101
Mean −920.7
Std Dev 0

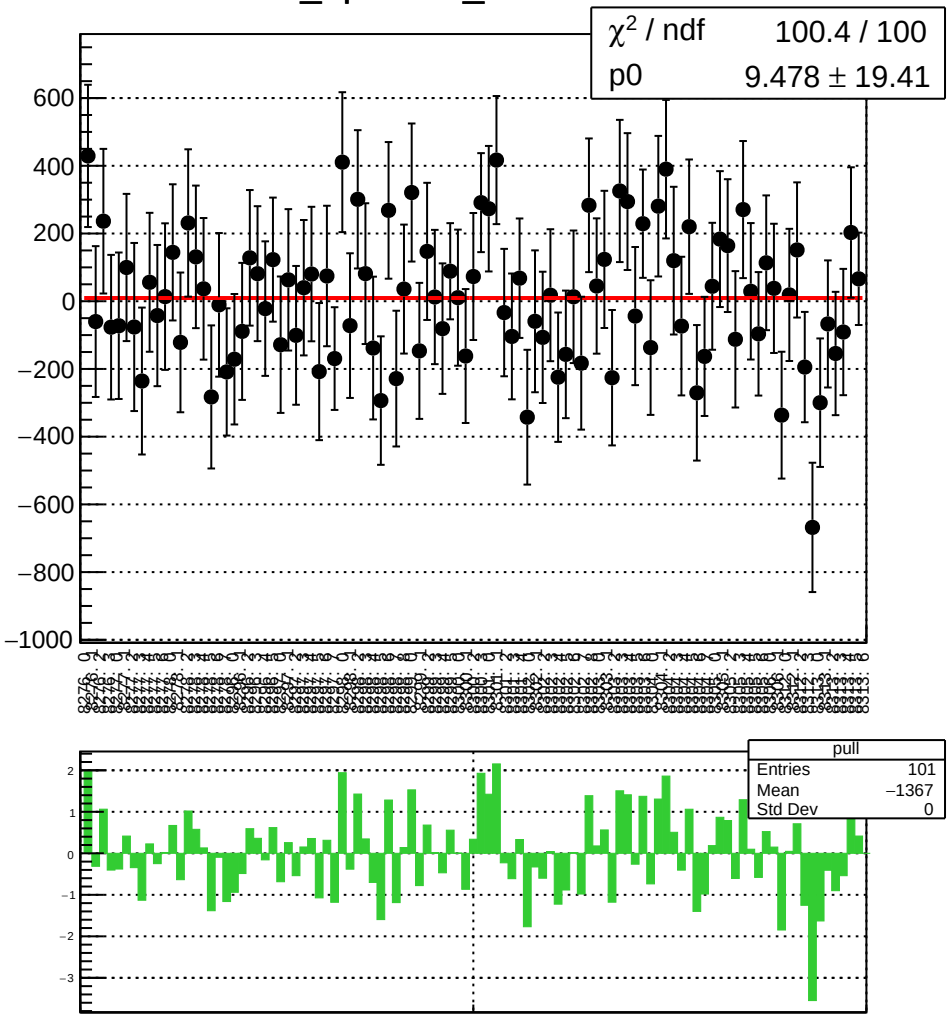

pull1D
Entries 101
Mean 0.005616
Std Dev 1.048

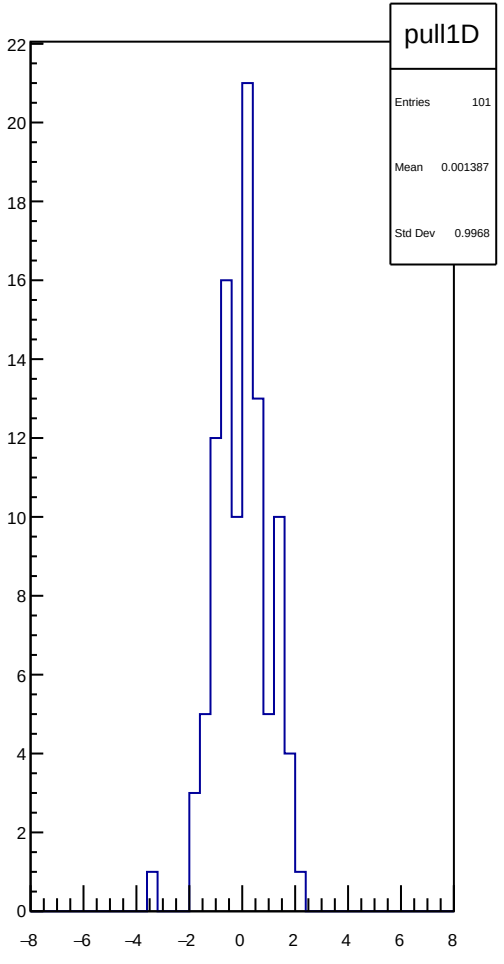

diff_bpm12X_rms vs run
χ² / ndf 4342 / 100
p0 4.156e+04 ± 29.97
54000
52000
50000
48000
46000
44000
42000
40000
38000
36000

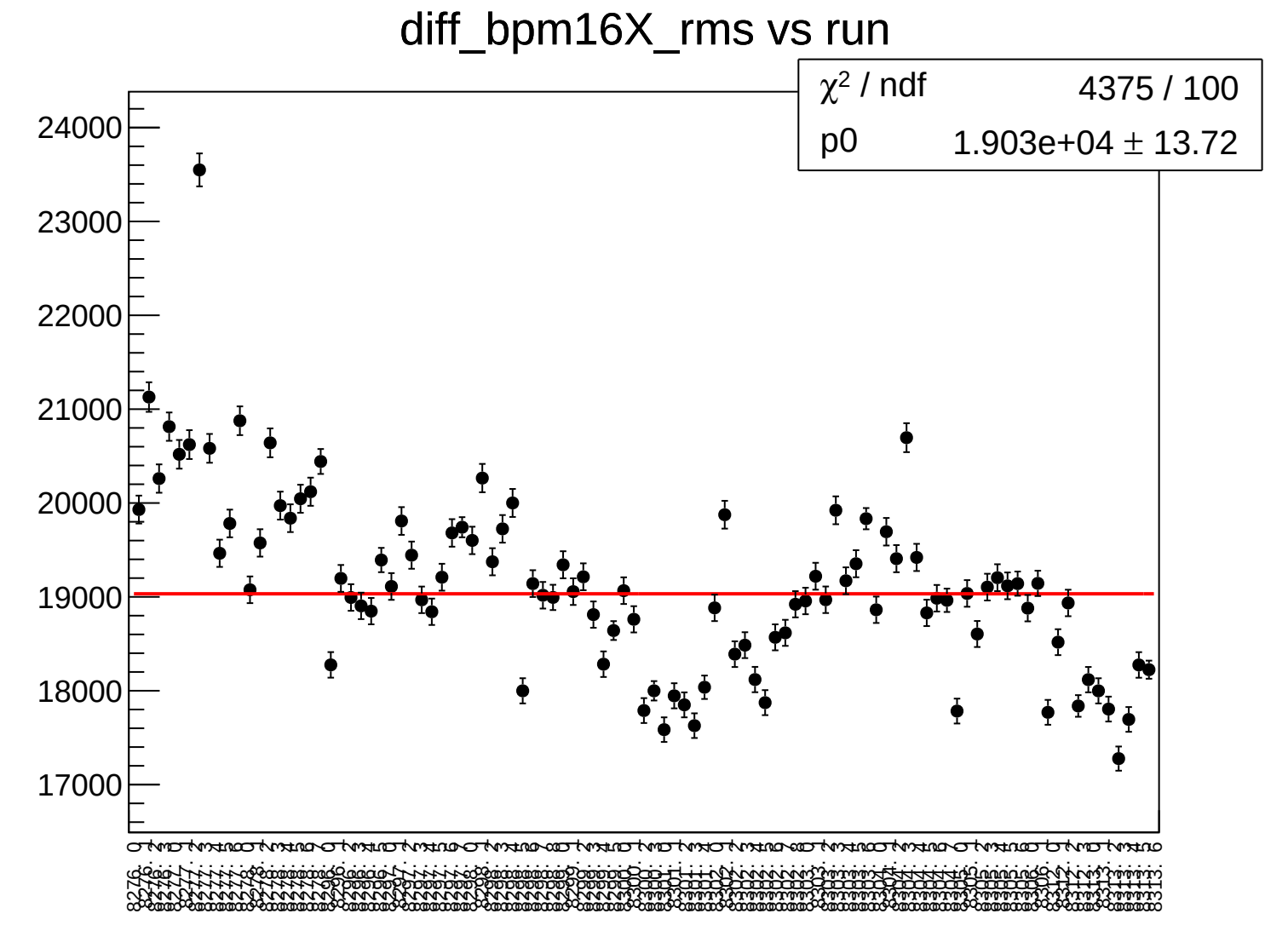

diff_bpm12Y_mean vs run
χ² / ndf 99.12 / 100
p0 4.481 ± 2.161
pull
Entries 101
Mean −128.1
Std Dev 0

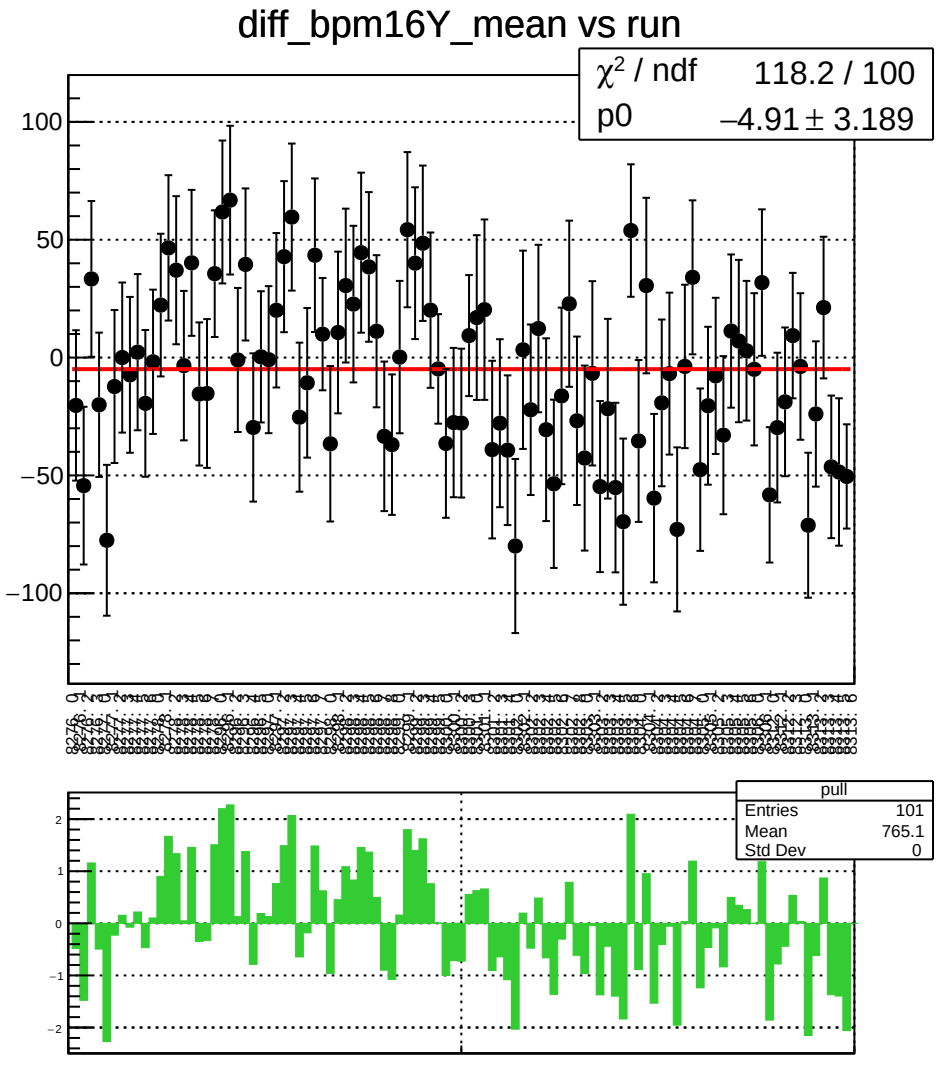

pull1D
Entries 101
Mean −0.002522
Std Dev 0.9907

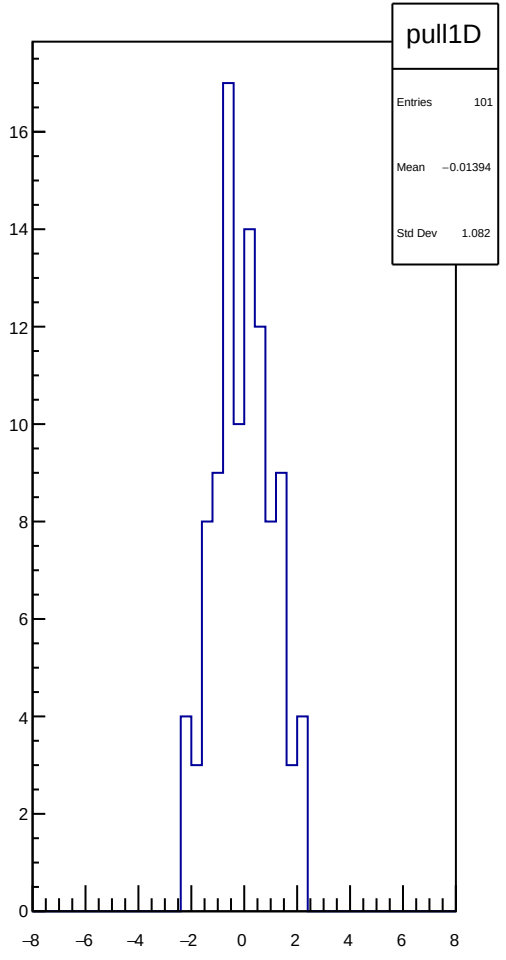

diff_bpm12Y_rms vs run
χ² / ndf 621.1 / 100
p0 2121 ± 1.528
2250
2200
2150
2100
2050

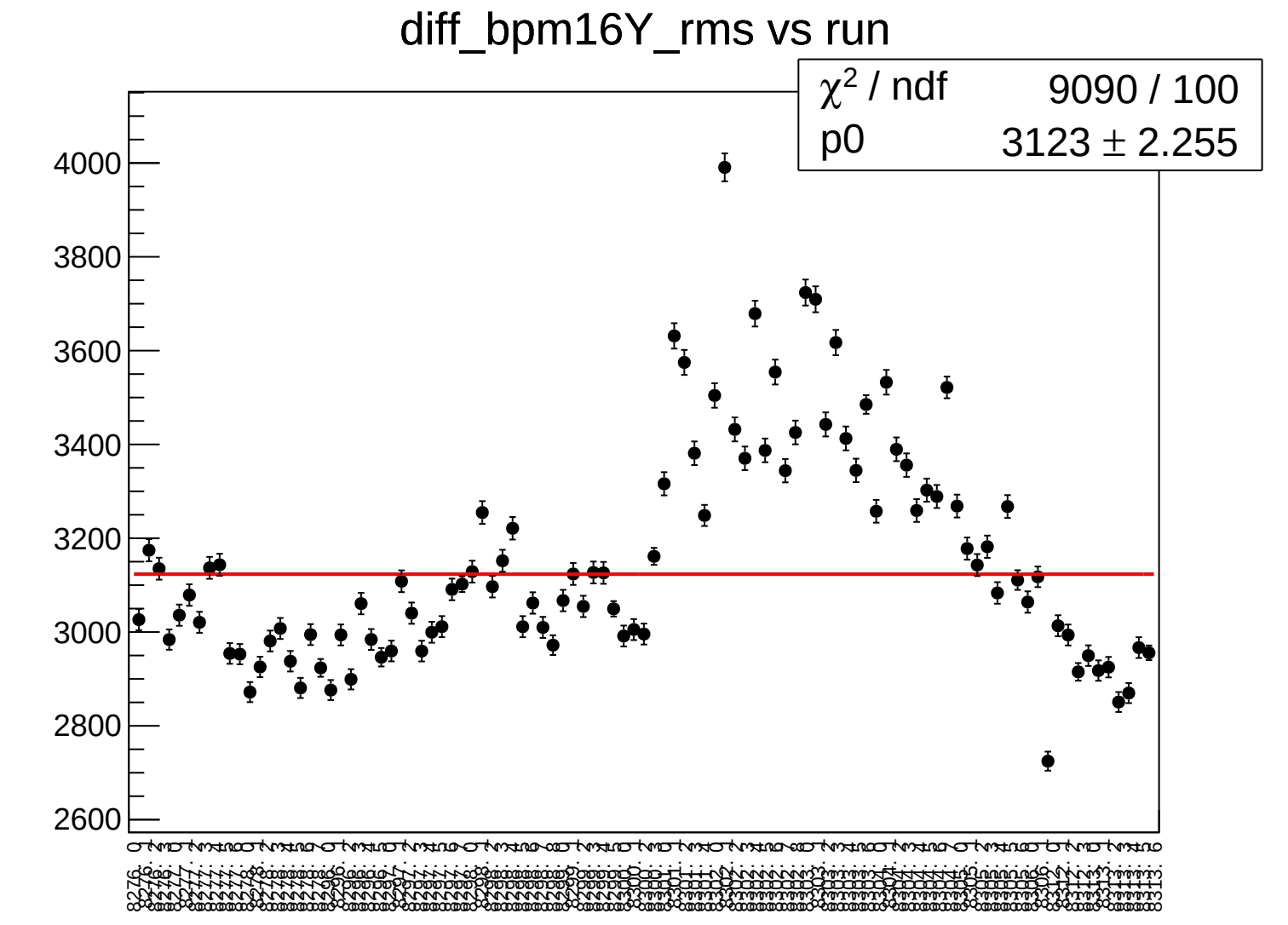

diff_bpm16X_mean vs run
χ² / ndf 100.4 / 100
p0 9.478 ± 19.41
pull
Entries 101
Mean −1367
Std Dev 0

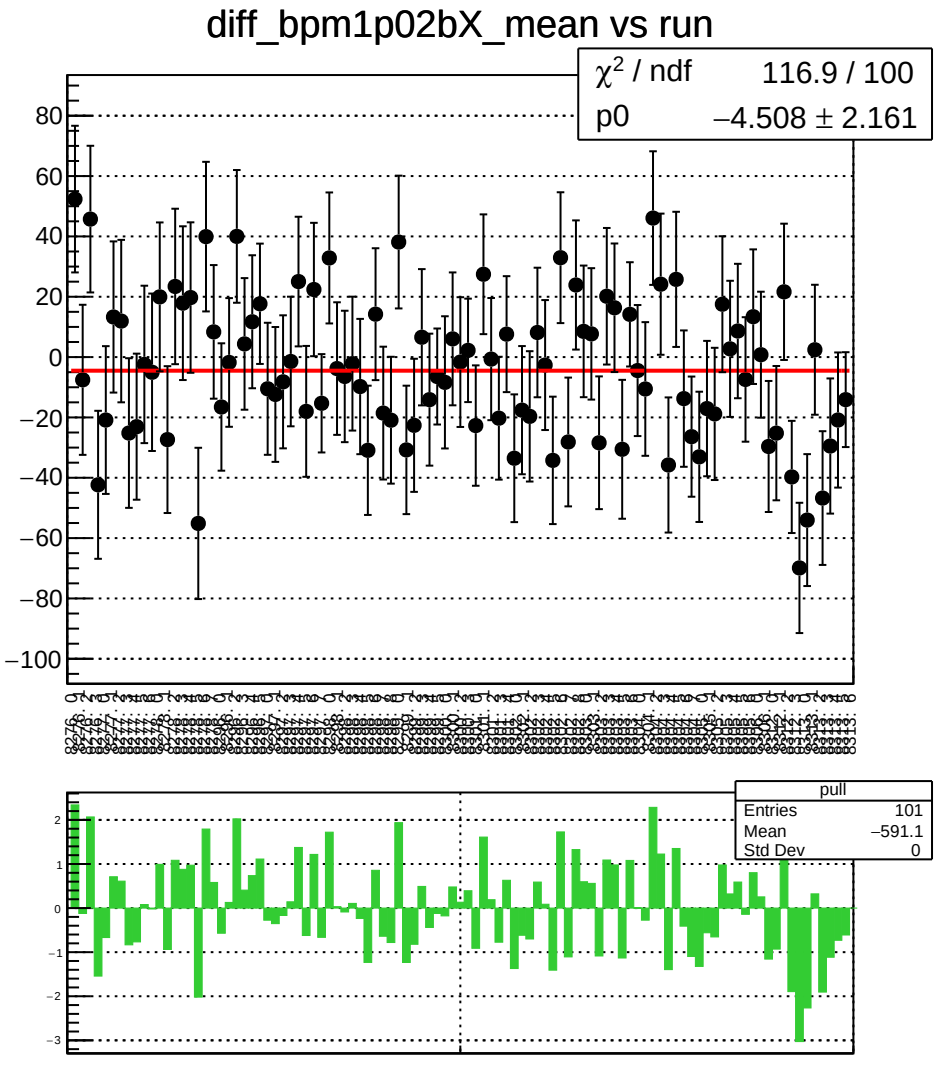

pull1D
Entries 101
Mean 0.001387
Std Dev 0.9968

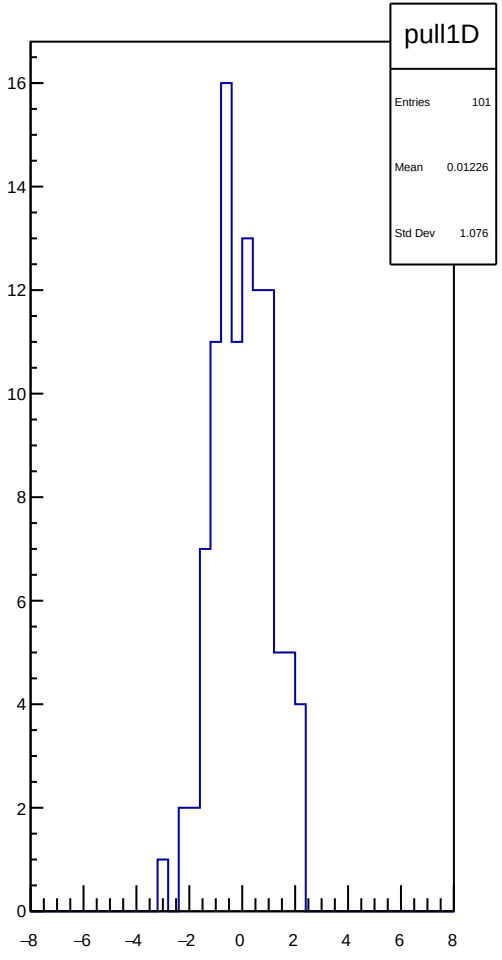

diff_bpm16X_rms vs run
χ² / ndf 4375 / 100
p0 1.903e+04 ± 13.72
24000
23000
22000
21000
20000
19000
18000
17000

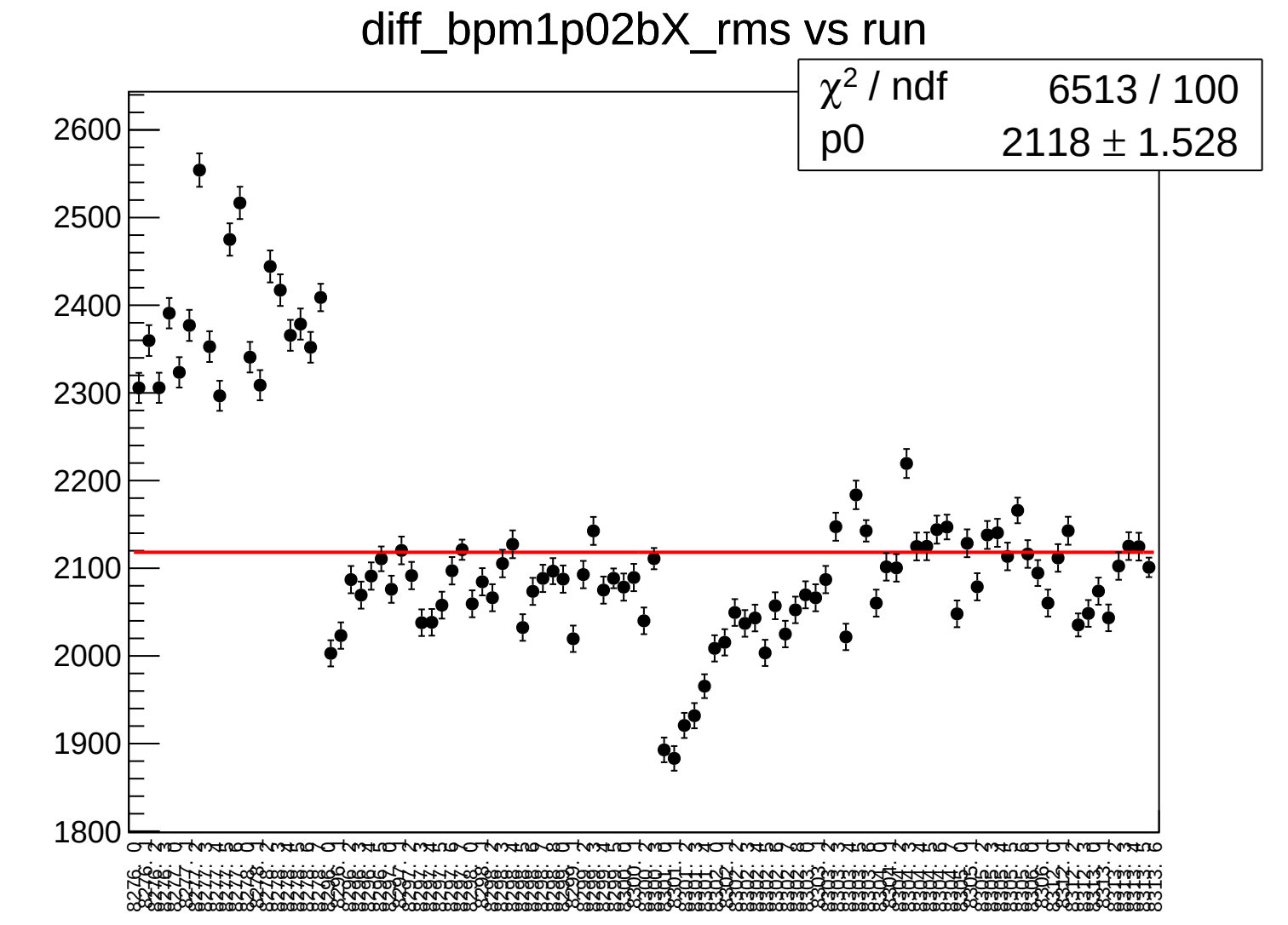

diff_bpm16Y_mean vs run
χ² / ndf 118.2 / 100
p0 −4.91 ± 3.189
100
50
0
−50
−100
pull
Entries 101
Mean 765.1
Std Dev 0
2
1
0
−1
−2

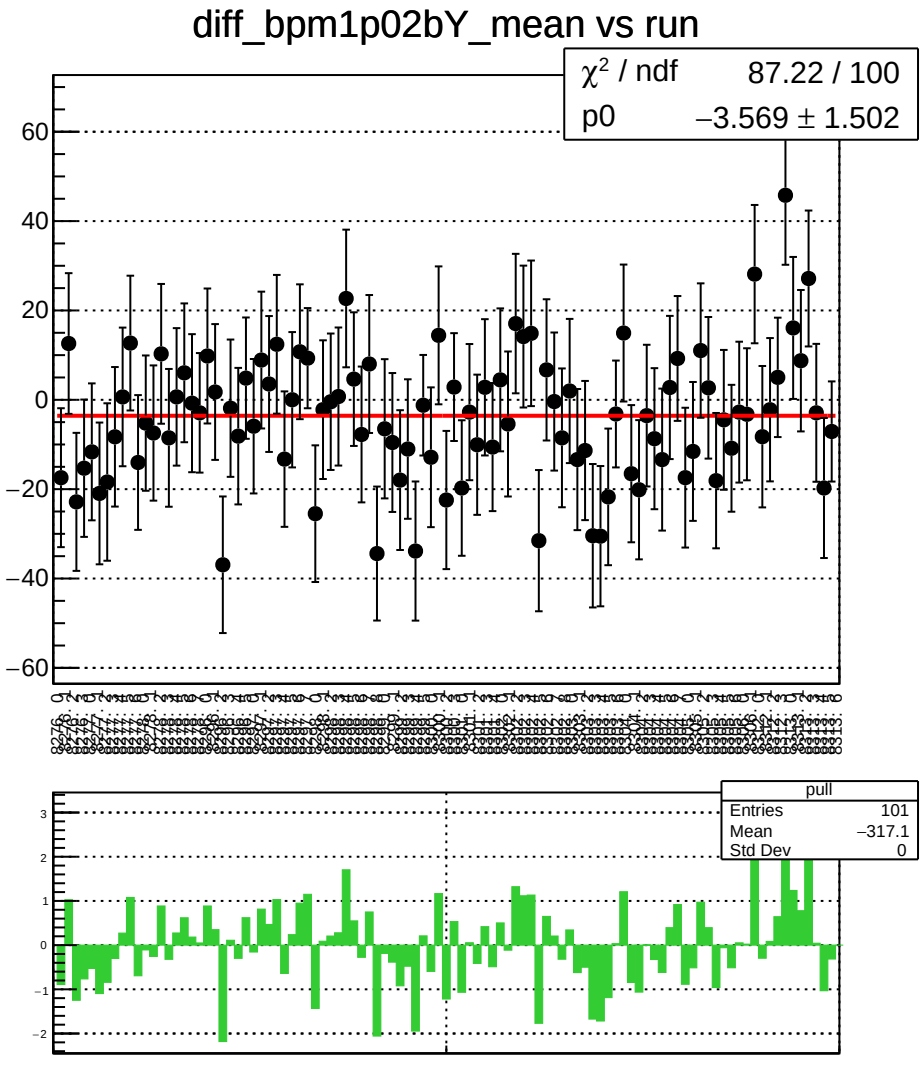

pull1D
Entries 101
Mean −0.01394
Std Dev 1.082
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

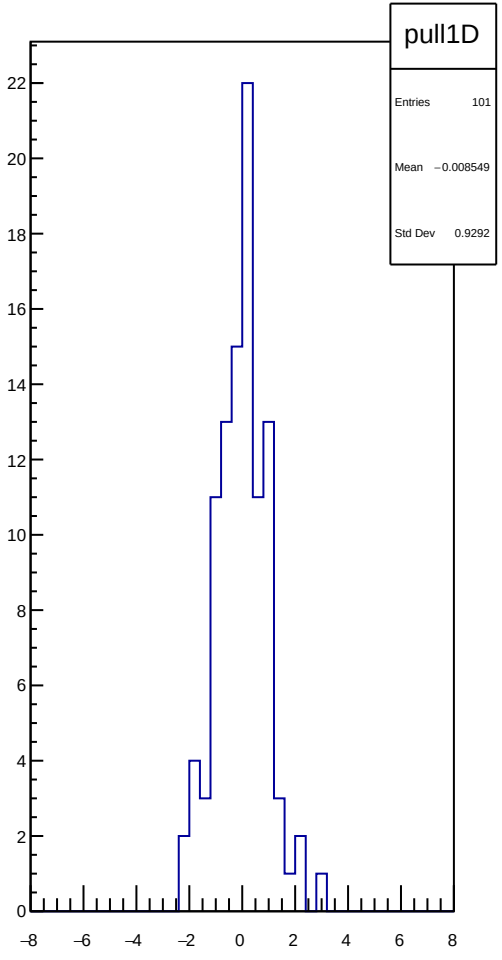

diff_bpm16Y_rms vs run
χ² / ndf 9090 / 100
p0 3123 ± 2.255
4000
3800
3600
3400
3200
3000
2800
2600

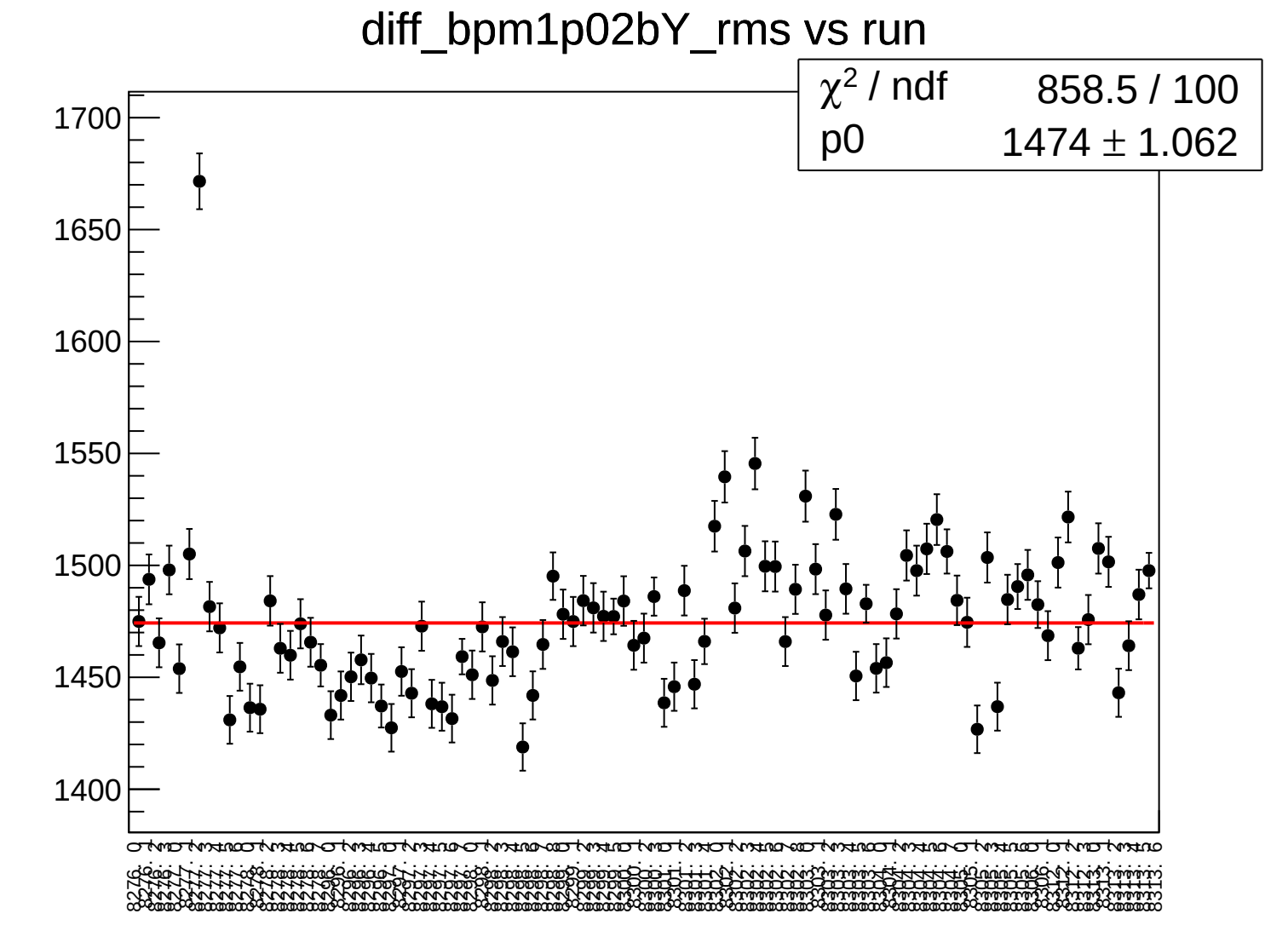

diff_bpm1p02bX_mean vs run
χ² / ndf 116.9 / 100
p0 −4.508 ± 2.161
pull
Entries 101
Mean −591.1
Std Dev 0

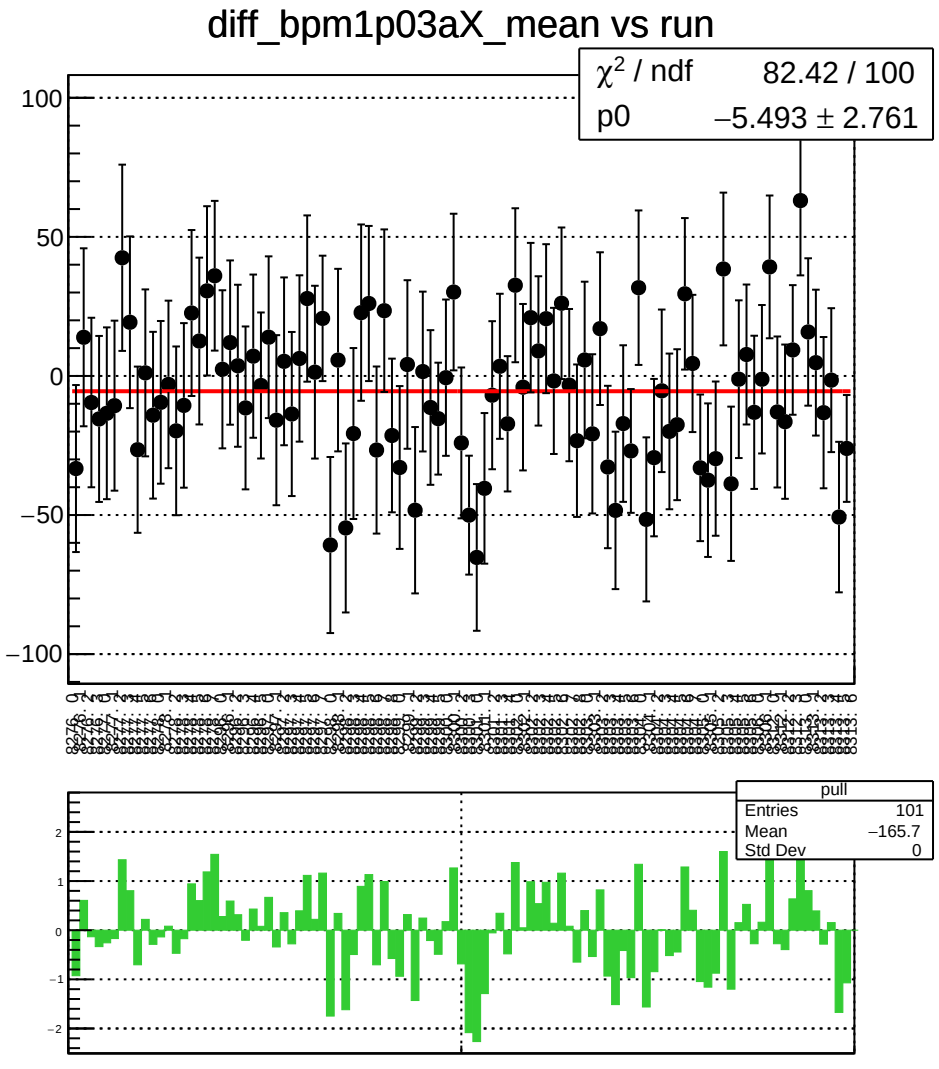

pull1D
Entries 101
Mean 0.01226
Std Dev 1.076

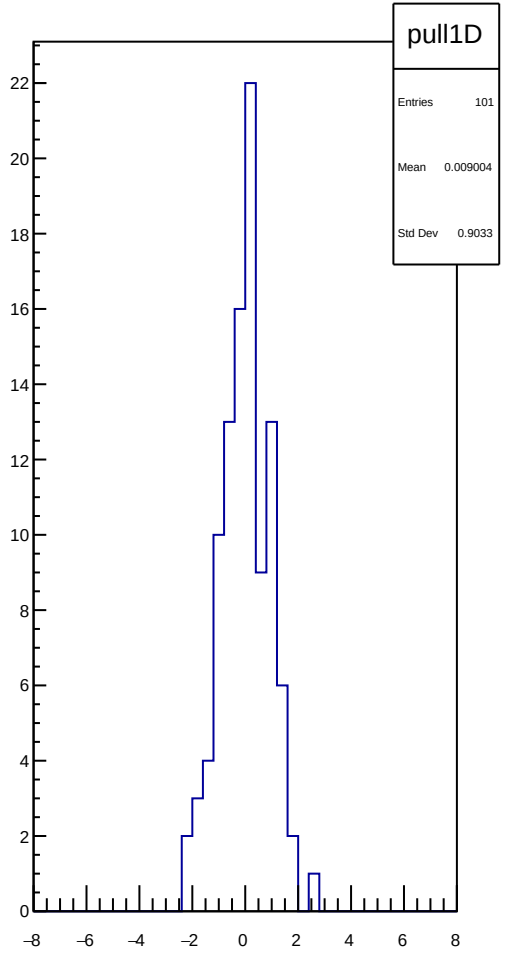

diff_bpm1p02bX_rms vs run
χ² / ndf 6513 / 100
p0 2118 ± 1.528
2600
2500
2400
2300
2200
2100
2000
1900
1800

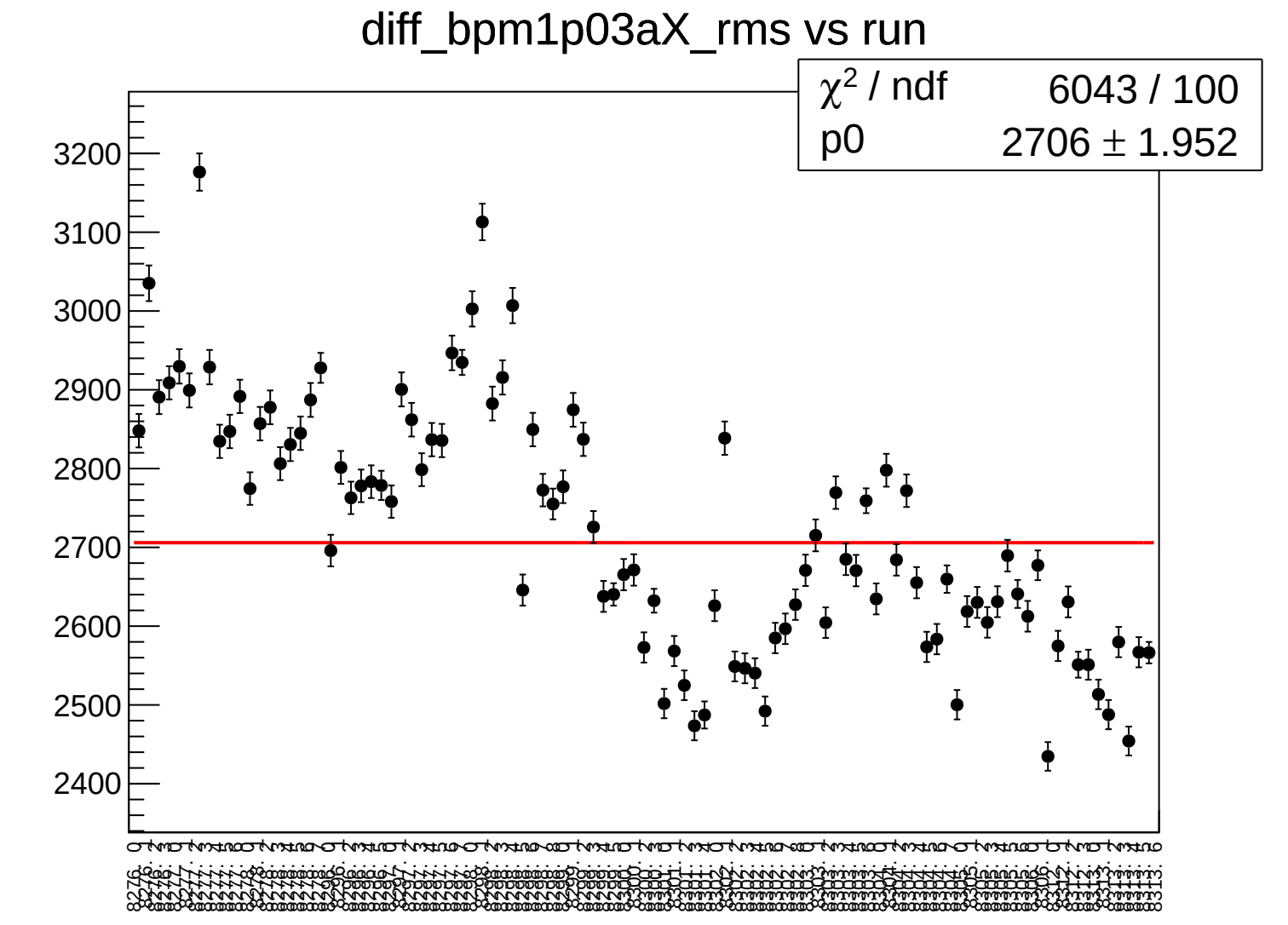

diff_bpm1p02bY_mean vs run
χ² / ndf 87.22 / 100
p0 −3.569 ± 1.502
pull
Entries 101
Mean −317.1
Std Dev 0

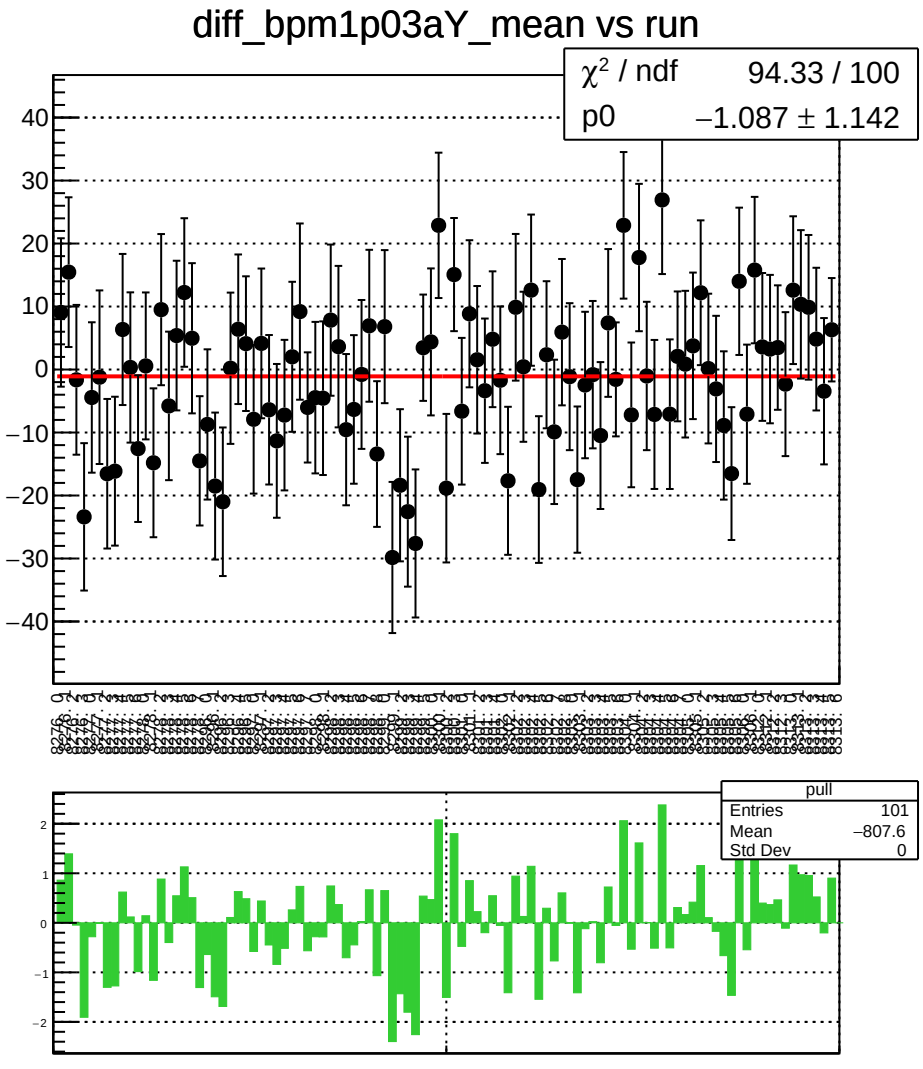

pull1D
Entries 101
Mean −0.008549
Std Dev 0.9292

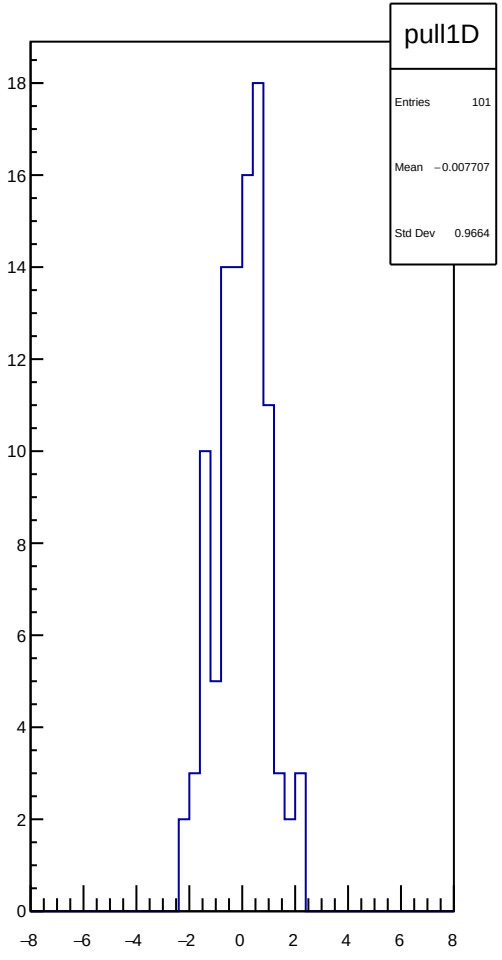

diff_bpm1p02bY_rms vs run
χ² / ndf 858.5 / 100
p0 1474 ± 1.062
1700
1650
1600
1550
1500
1450
1400

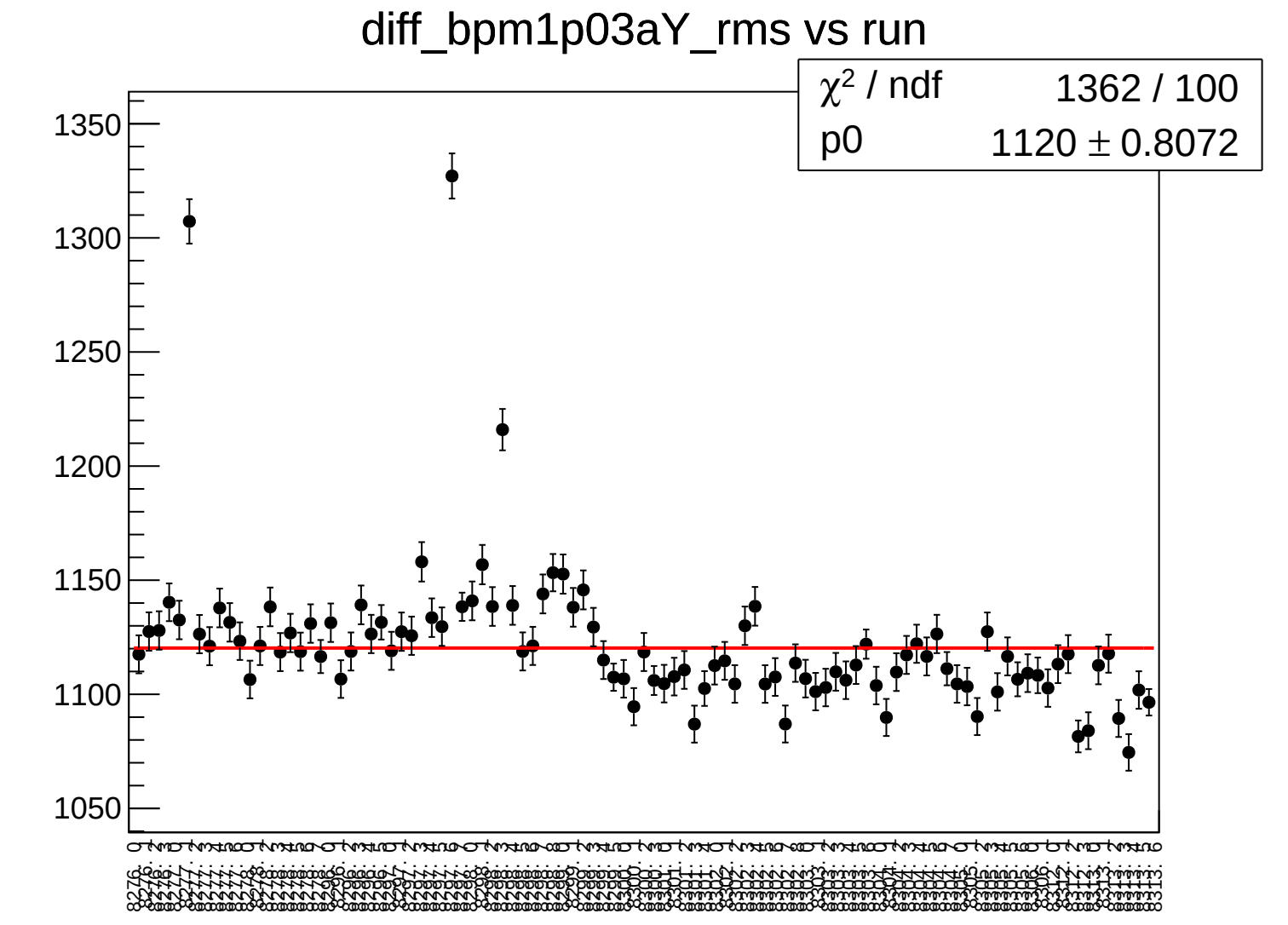

diff_bpm1p03aX_mean vs run
χ² / ndf 82.42 / 100
p0 −5.493 ± 2.761
100
50
0
−50
−100
pull
Entries 101
Mean −165.7
Std Dev 0
2
1
0
−1
−2

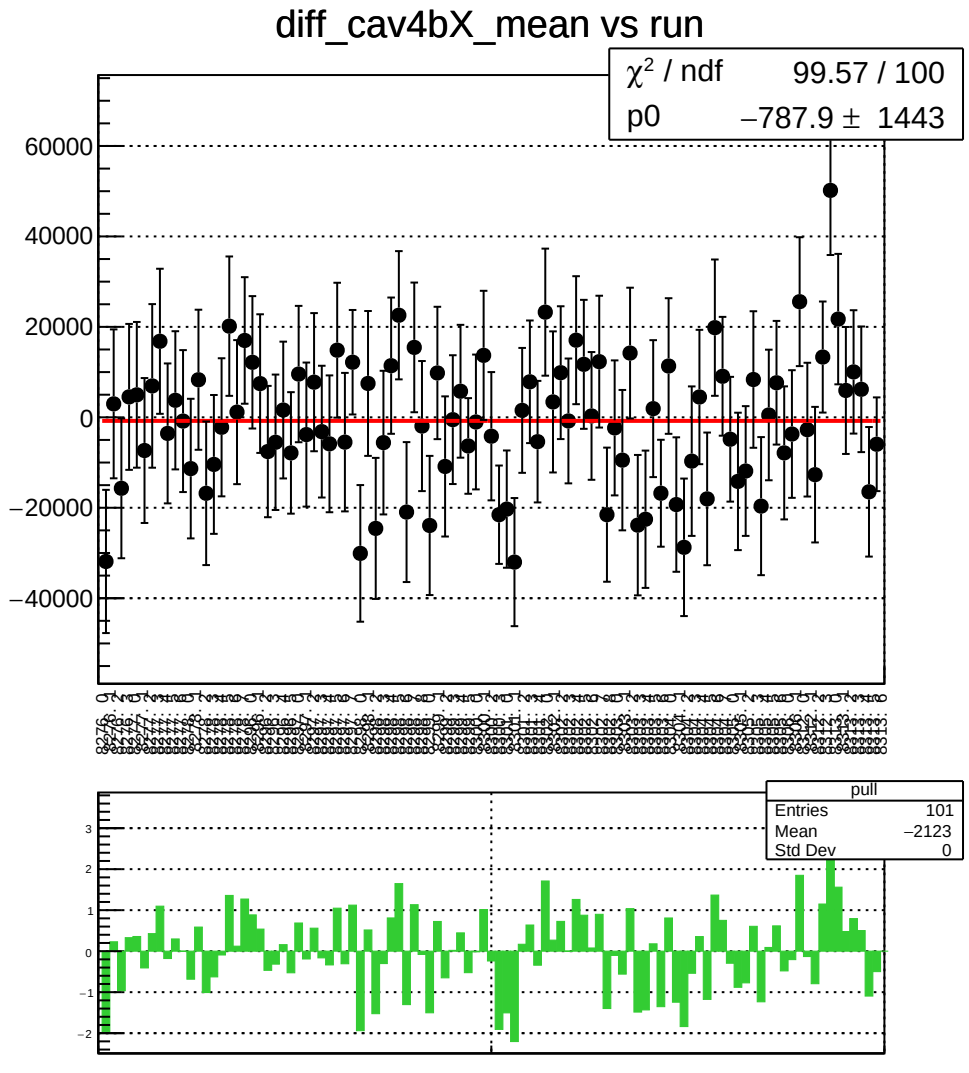

pull1D
Entries 101
Mean 0.009004
Std Dev 0.9033
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

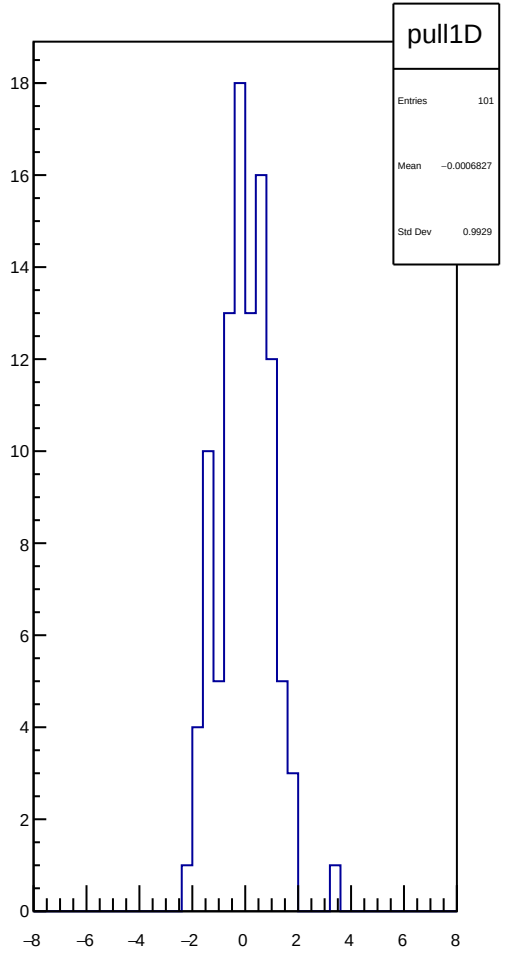

diff_bpm1p03aX_rms vs run
χ² / ndf 6043 / 100
p0 2706 ± 1.952
3200
3100
3000
2900
2800
2700
2600
2500
2400

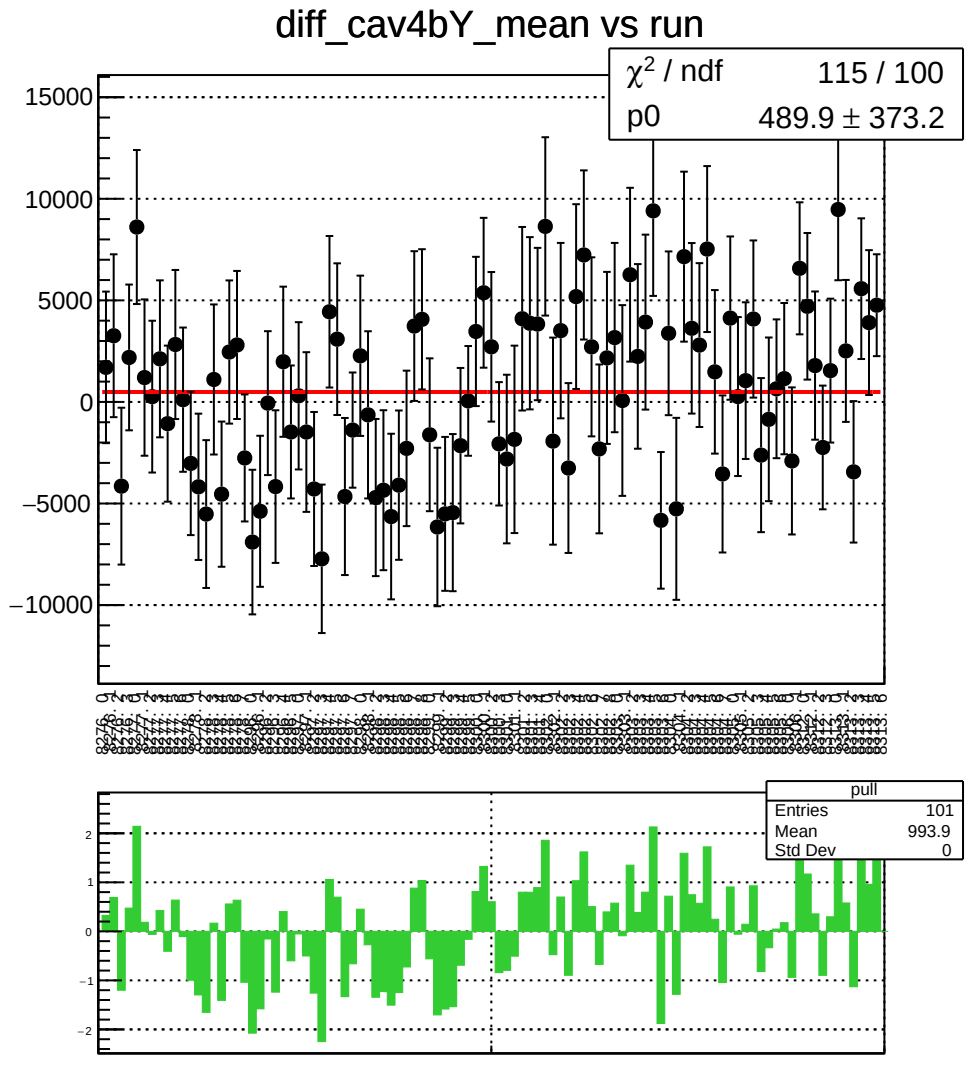

diff_bpm1p03aY_mean vs run
χ^2 / ndf 94.33 / 100
p0 −1.087 ± 1.142
pull
Entries 101
Mean −807.6
Std Dev 0

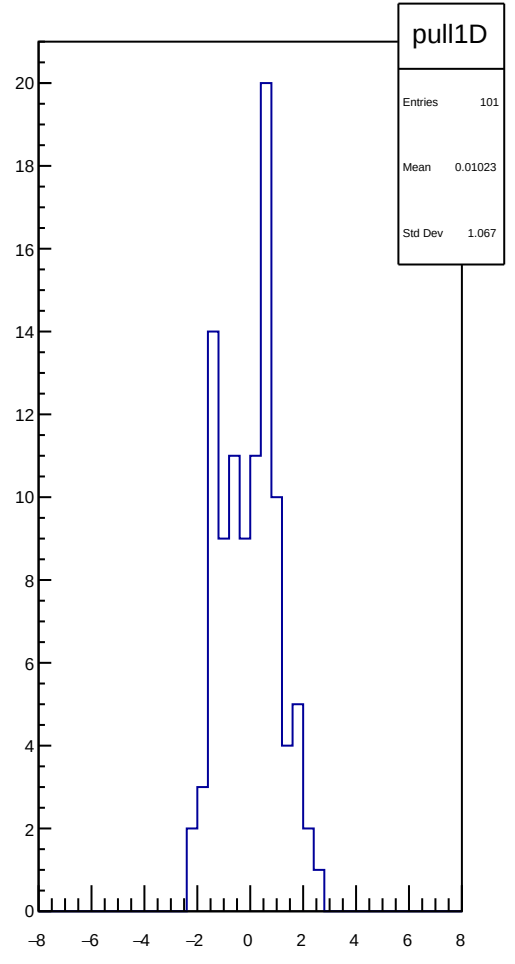

pull1D
Entries 101
Mean −0.007707
Std Dev 0.9664

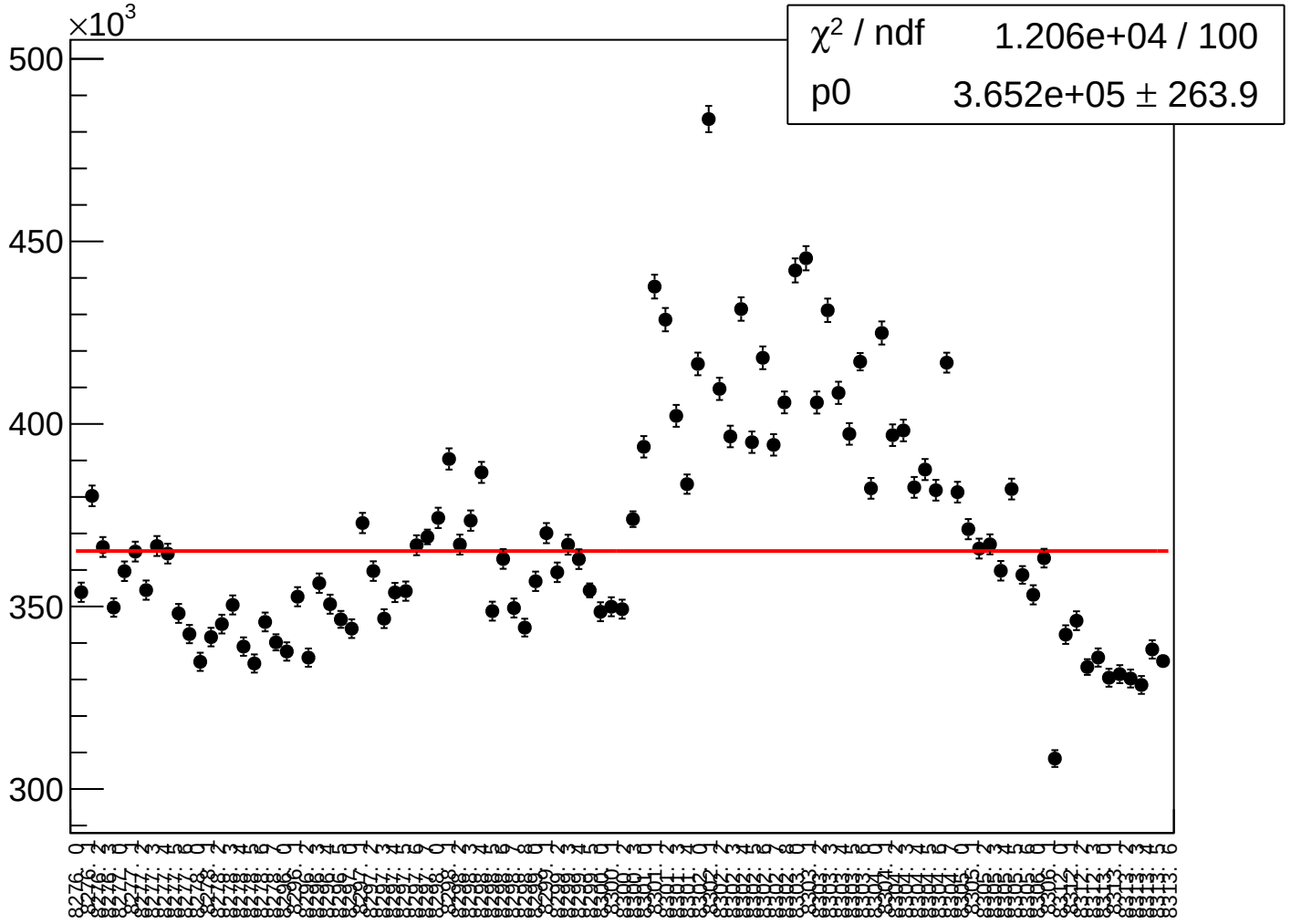

diff_bpm1p03aY_rms vs run
χ² / ndf 1362 / 100
p0 1120 ± 0.8072
1350
1300
1250
1200
1150
1100
1050

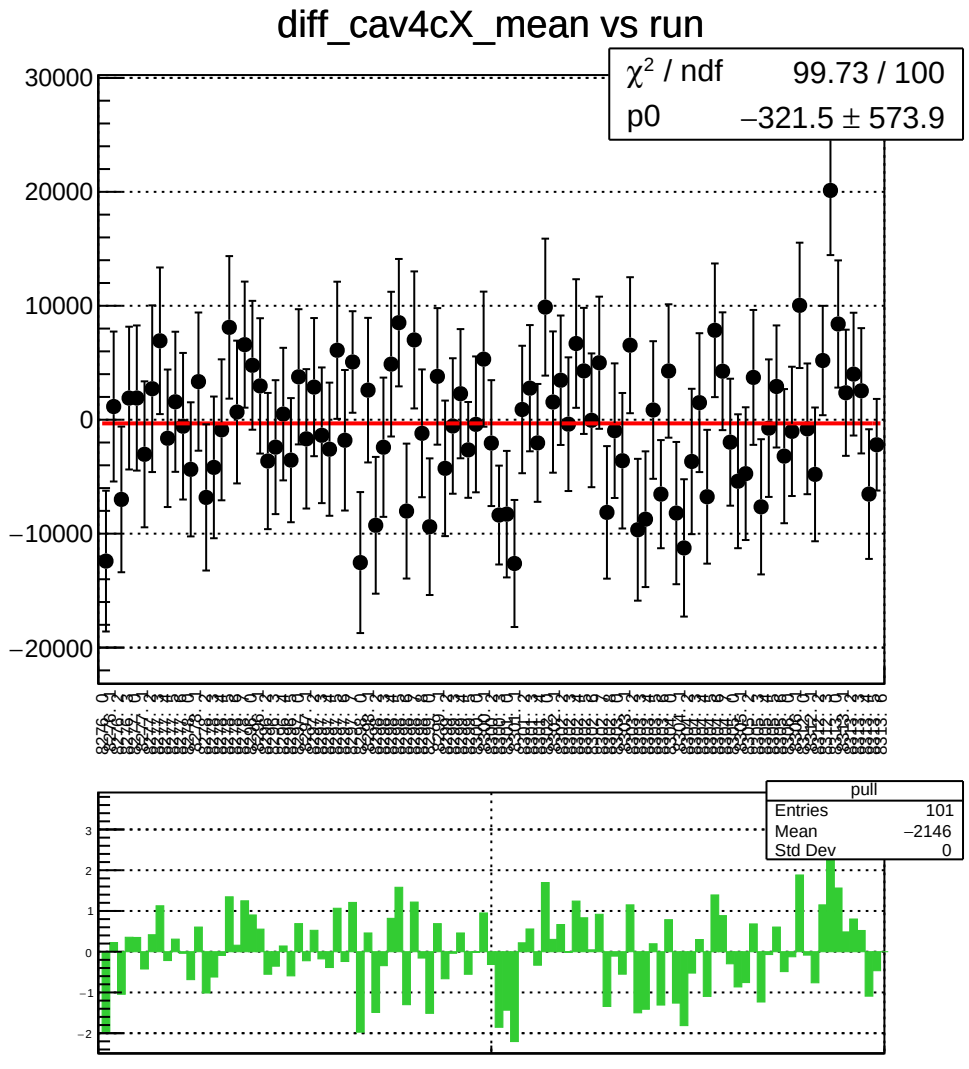

diff_cav4bX_mean vs run
χ² / ndf 99.57 / 100
p0 −787.9 ± 1443
60000
40000
20000
0
−20000
−40000
pull
Entries 101
Mean −2123
Std Dev 0
3
2
1
0
−1
−2

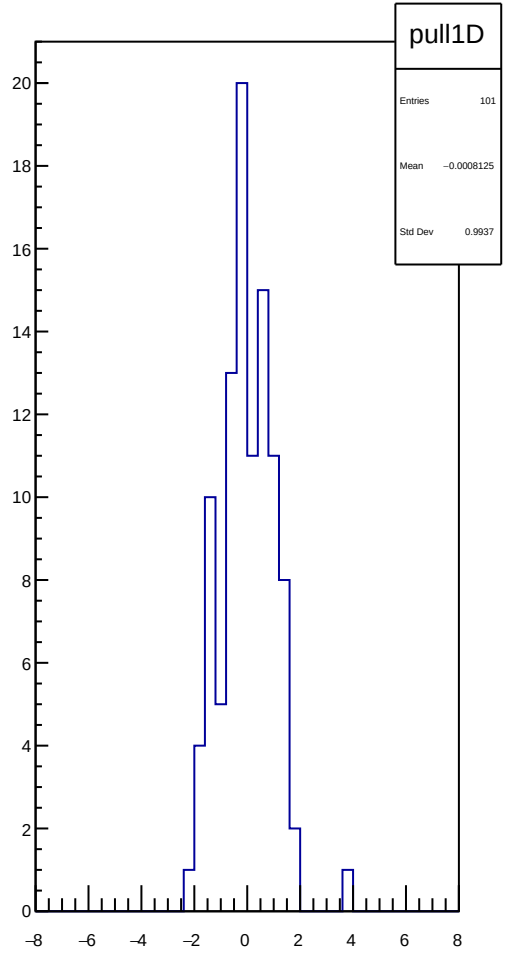

pull1D
Entries 101
Mean −0.0006827
Std Dev 0.9929
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

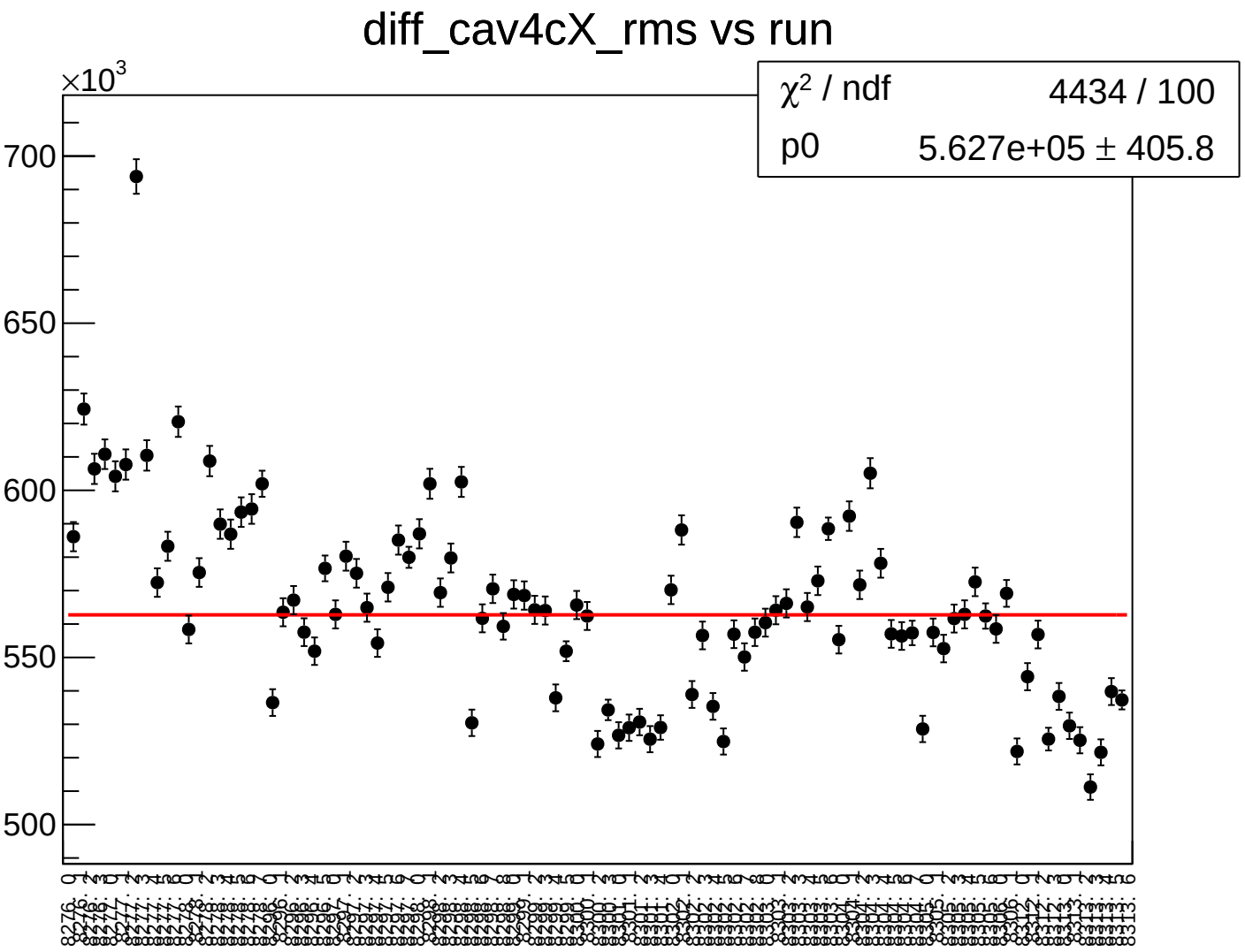

diff_cav4bY_mean vs run
χ² / ndf 115 / 100
p0 489.9 ± 373.2
15000
10000
5000
0
−5000
−10000
pull
Entries 101
Mean 993.9
Std Dev 0
2
1
0
−1
−2

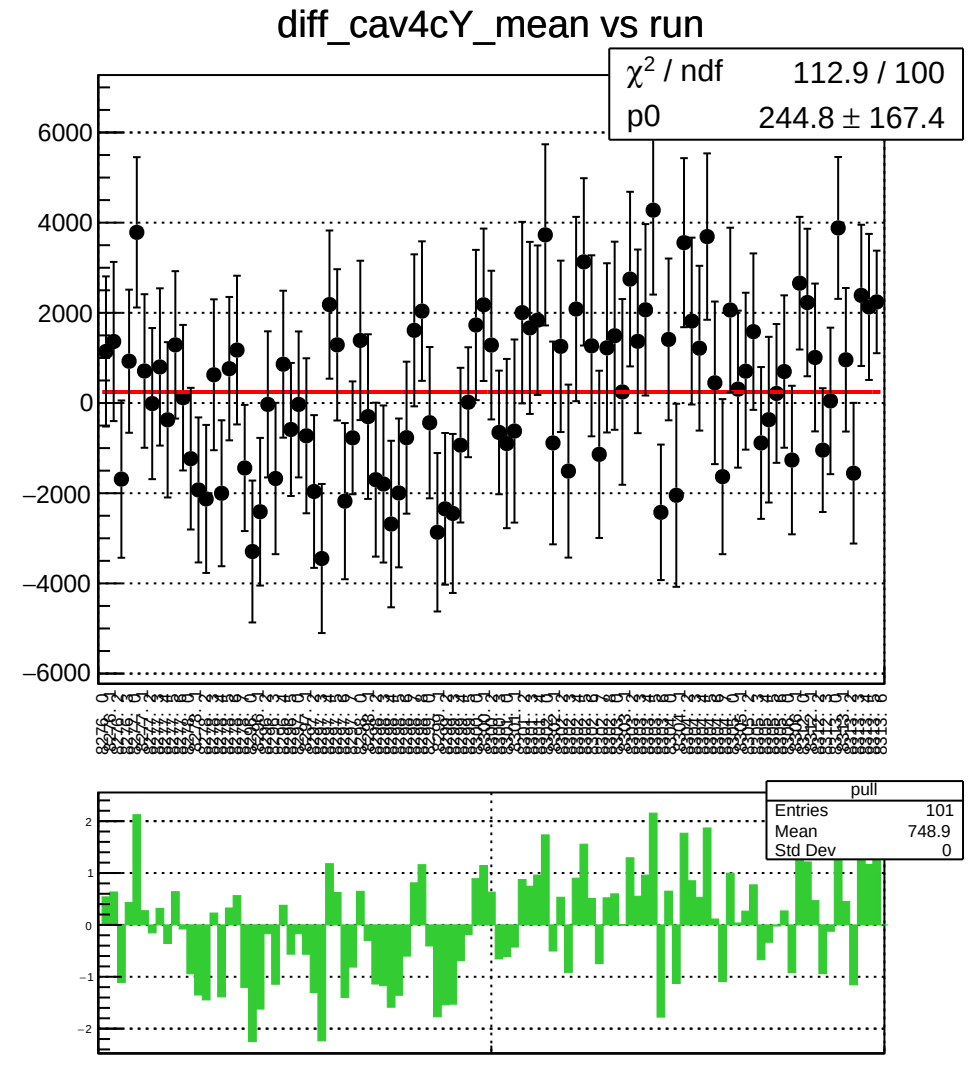

pull1D
Entries 101
Mean 0.01023
Std Dev 1.067
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

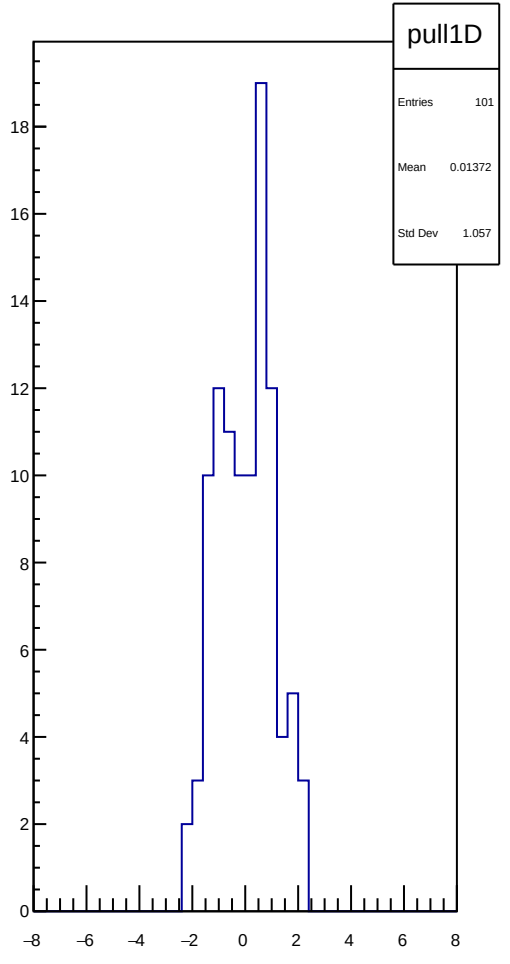

diff_cav4bY_rms vs run
×10^3
500
450
400
350
300
χ² / ndf 1.206e+04 / 100
p0 3.652e+05 ± 263.9

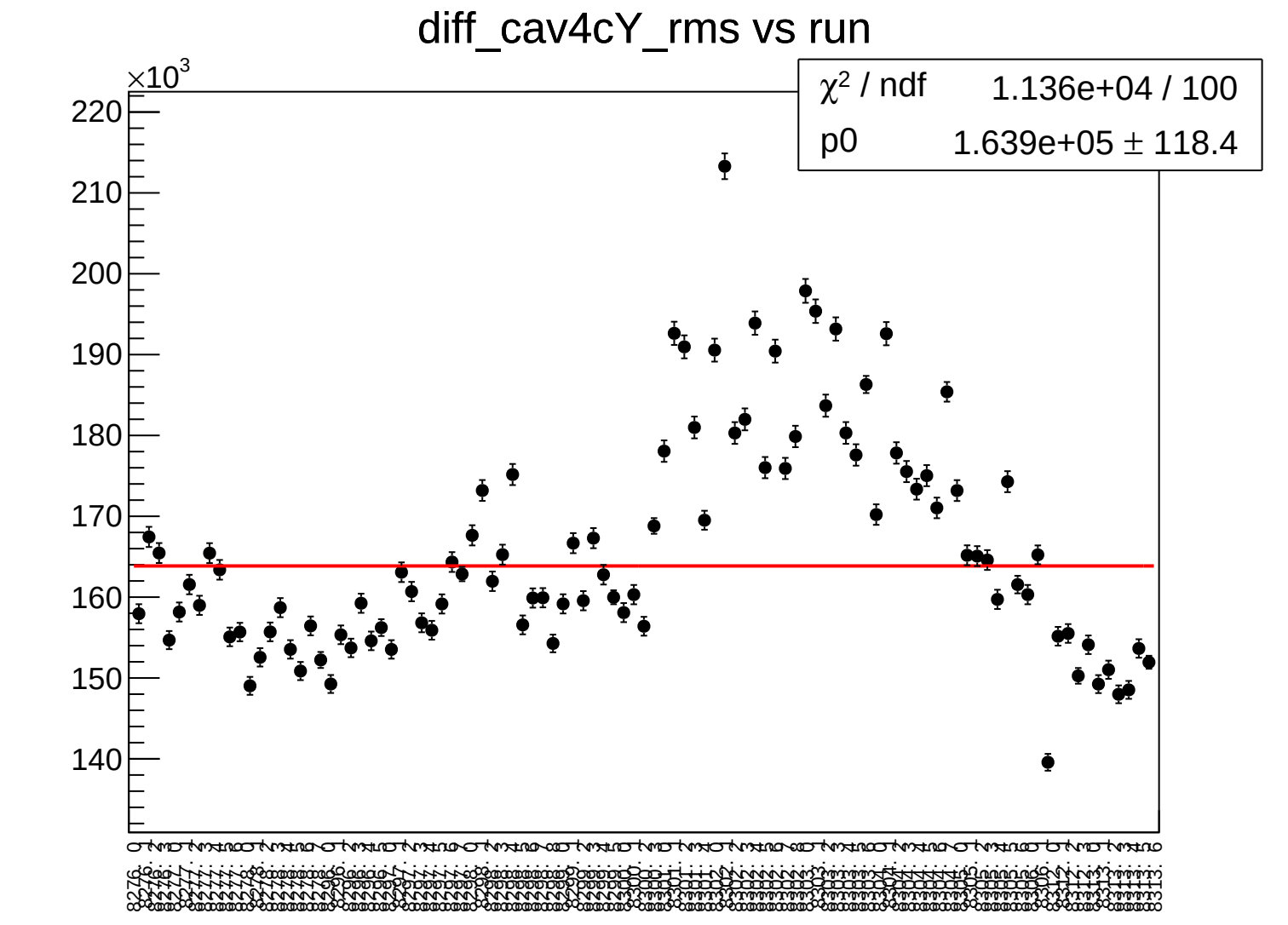

diff_cav4cX_mean vs run
χ² / ndf 99.73 / 100
p0 −321.5 ± 573.9
30000
20000
10000
0
−10000
−20000
pull
Entries 101
Mean −2146
Std Dev 0
3
2
1
0
−1
−2

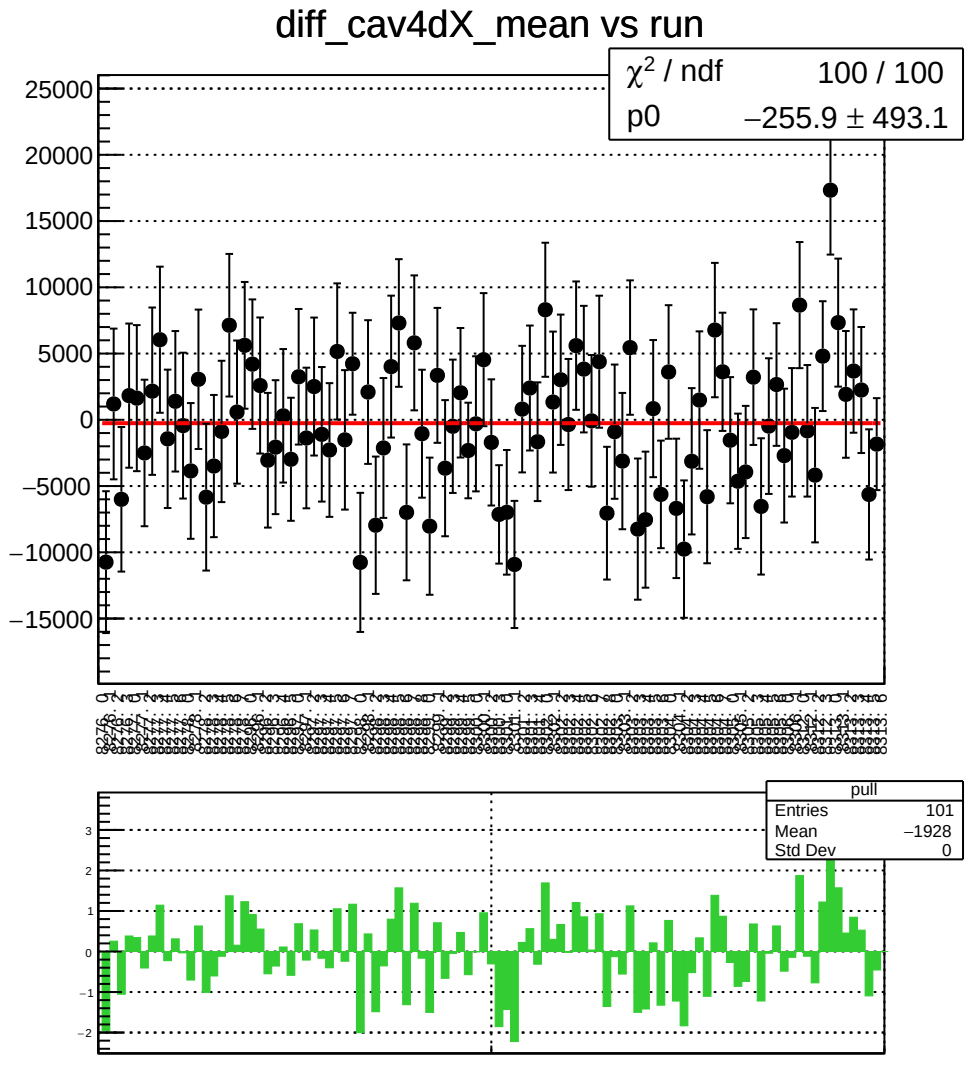

pull1D
Entries 101
Mean −0.0008125
Std Dev 0.9937
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

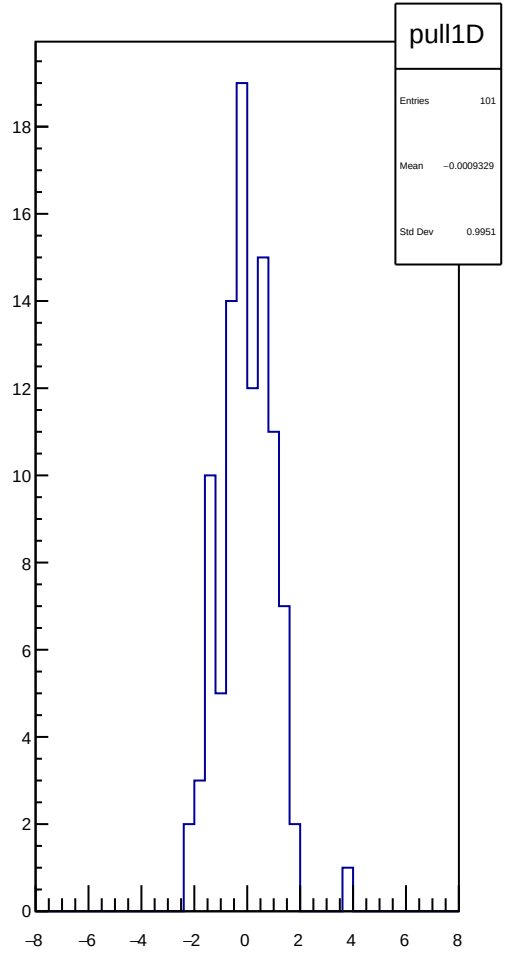

diff_cav4cX_rms vs run
×10^3
700
650
600
550
500
χ² / ndf 4434 / 100
p0 5.627e+05 ± 405.8


diff_cav4cY_mean vs run
χ^2 / ndf 112.9 / 100
p0 244.8 ± 167.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 101
Mean 748.9
Std Dev 0
2
1
0
−1
−2

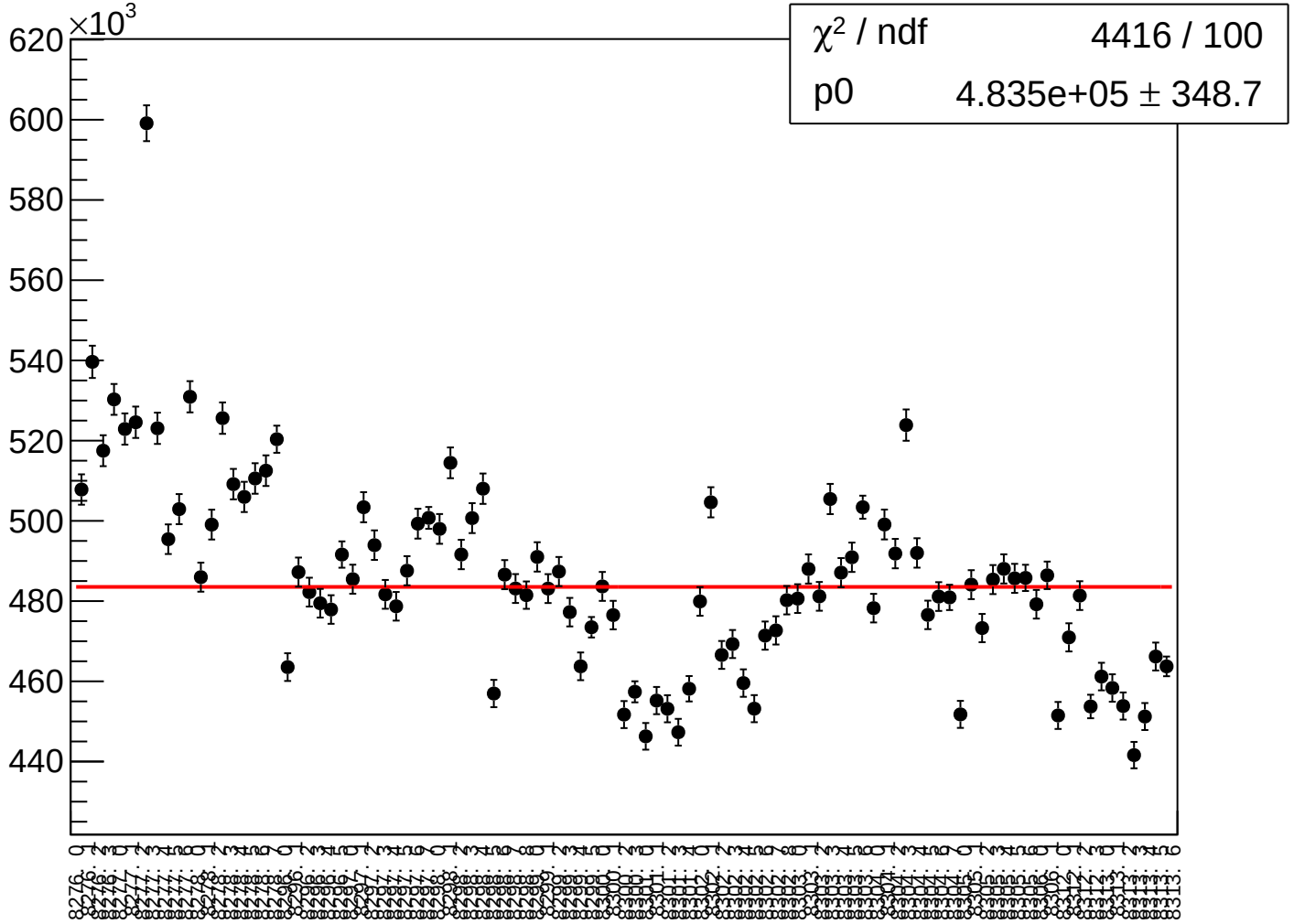

pull1D
Entries 101
Mean 0.01372
Std Dev 1.057
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

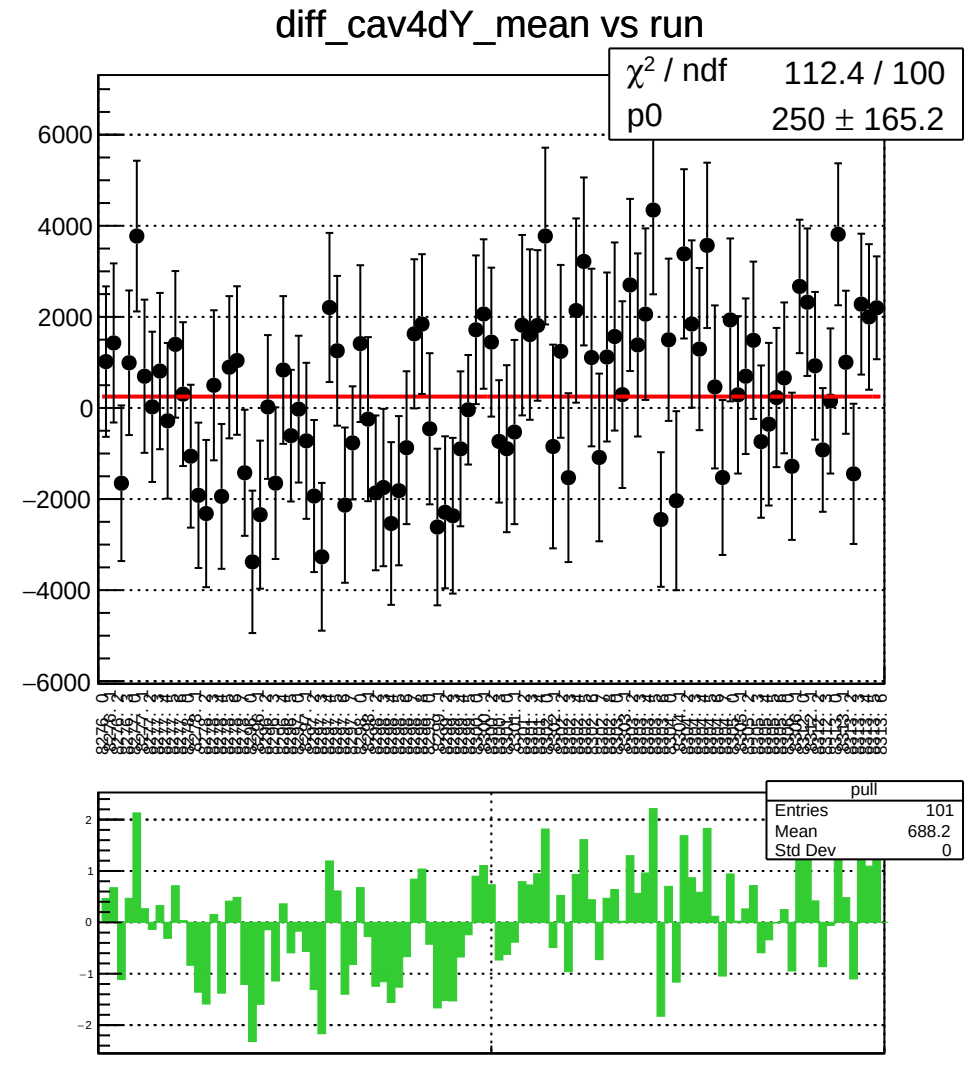

diff_cav4cY_rms vs run
×10^3
220
210
200
190
180
170
160
150
140
χ² / ndf 1.136e+04 / 100
p0 1.639e+05 ± 118.4

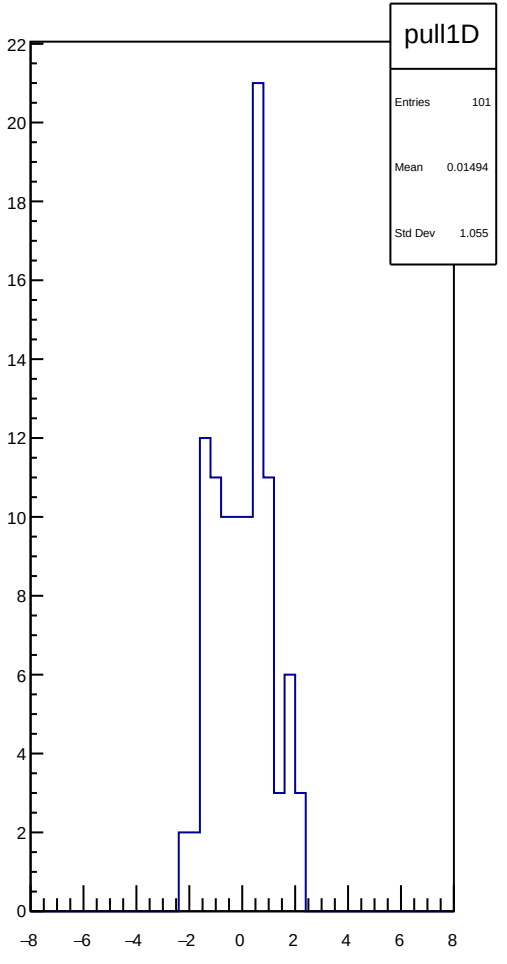

diff_cav4dX_mean vs run
χ² / ndf 100 / 100
p0 −255.9 ± 493.1
pull
Entries 101
Mean −1928
Std Dev 0

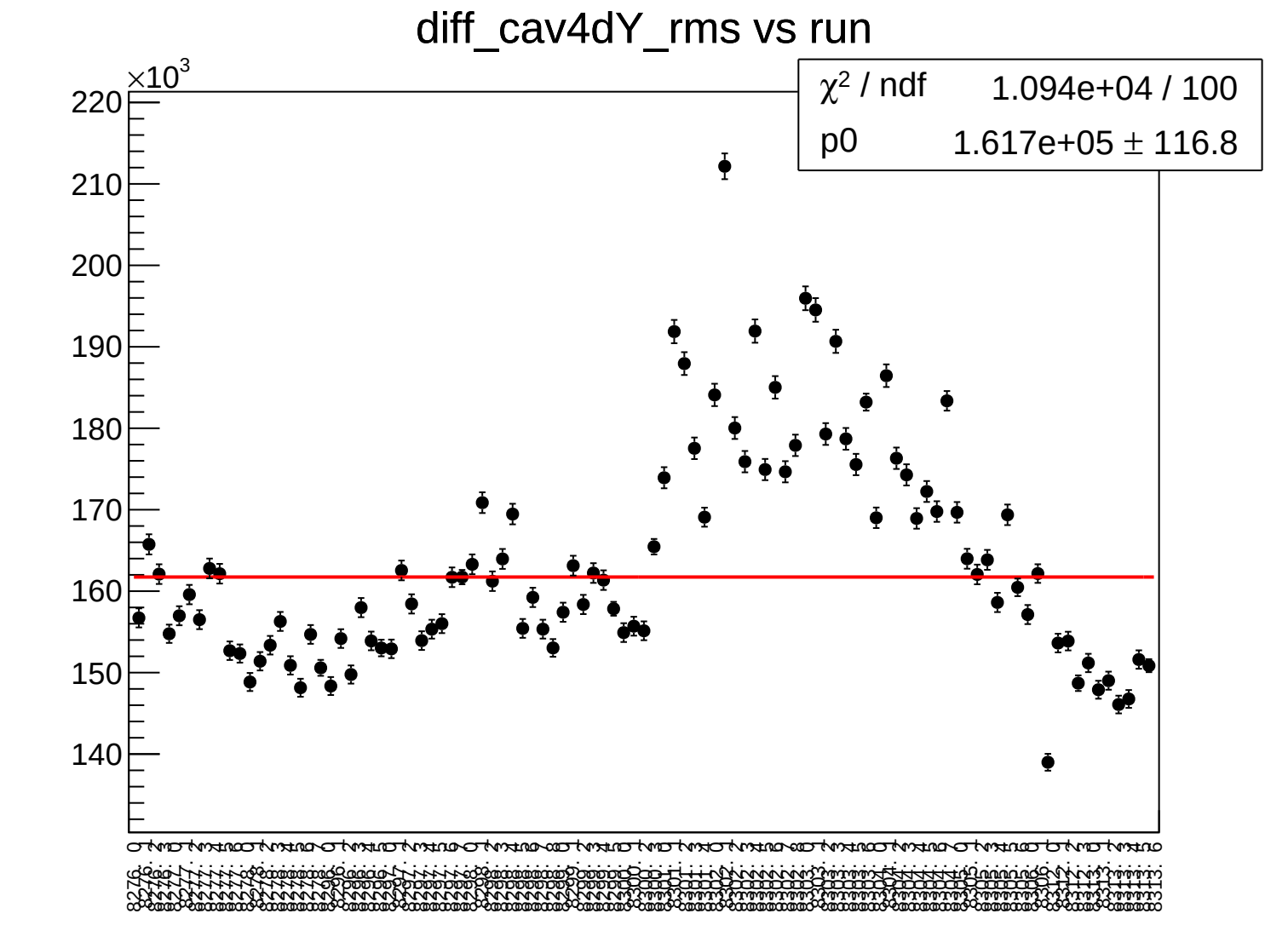

pull1D
Entries 101
Mean −0.0009329
Std Dev 0.9951

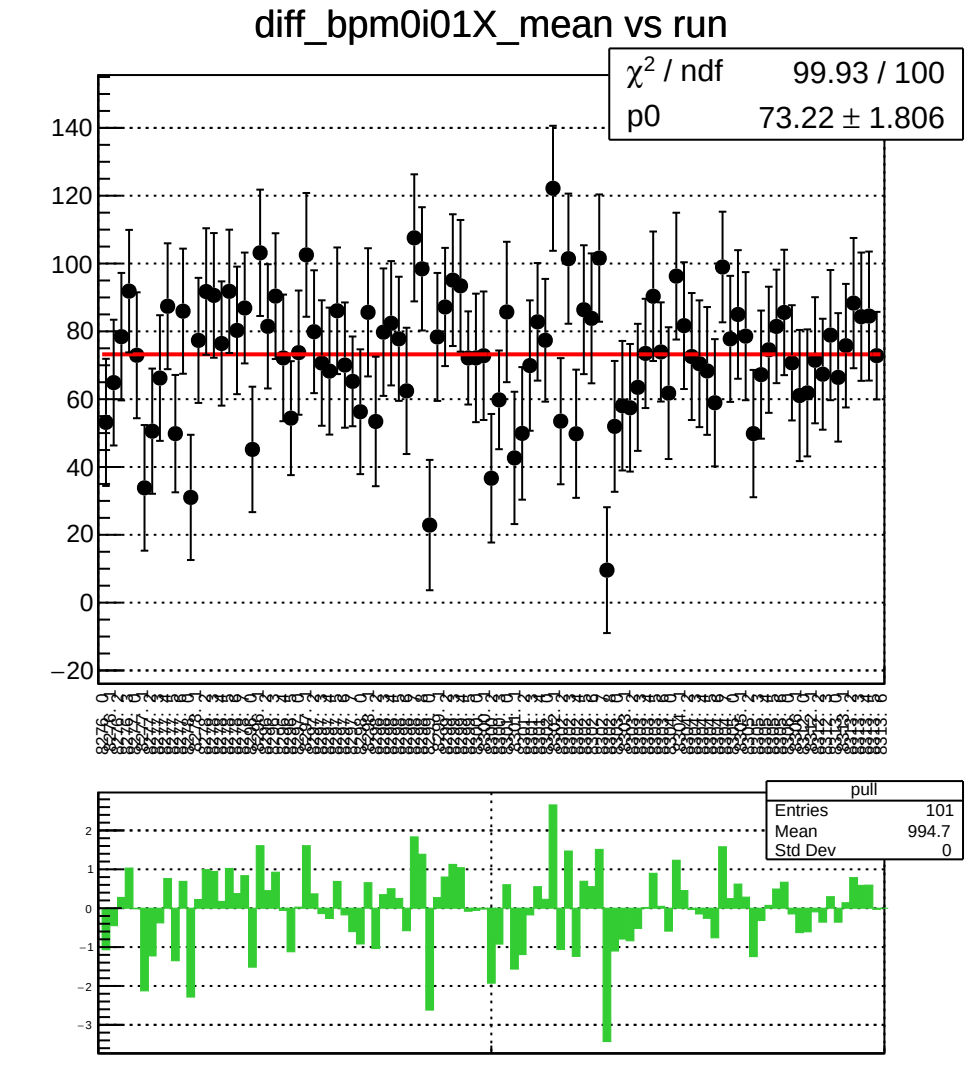
diff_cav4dX_rms vs run

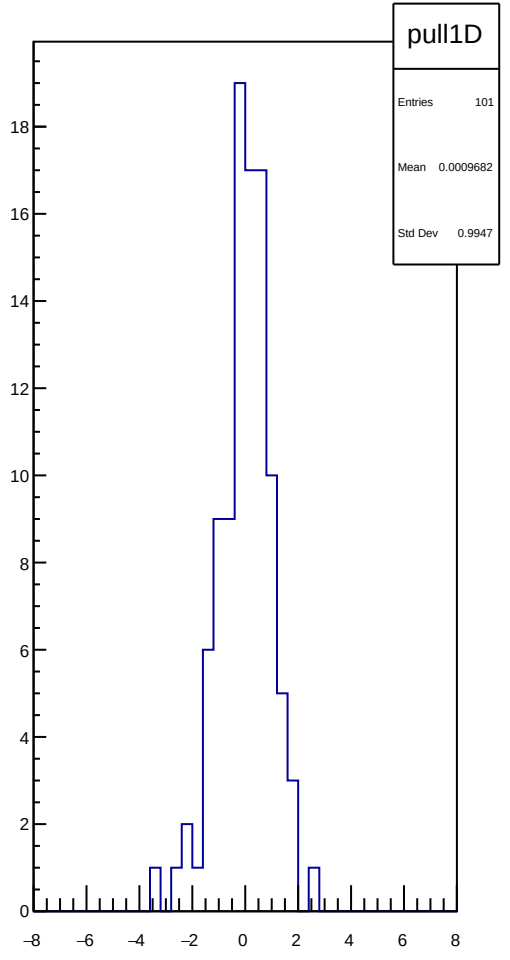


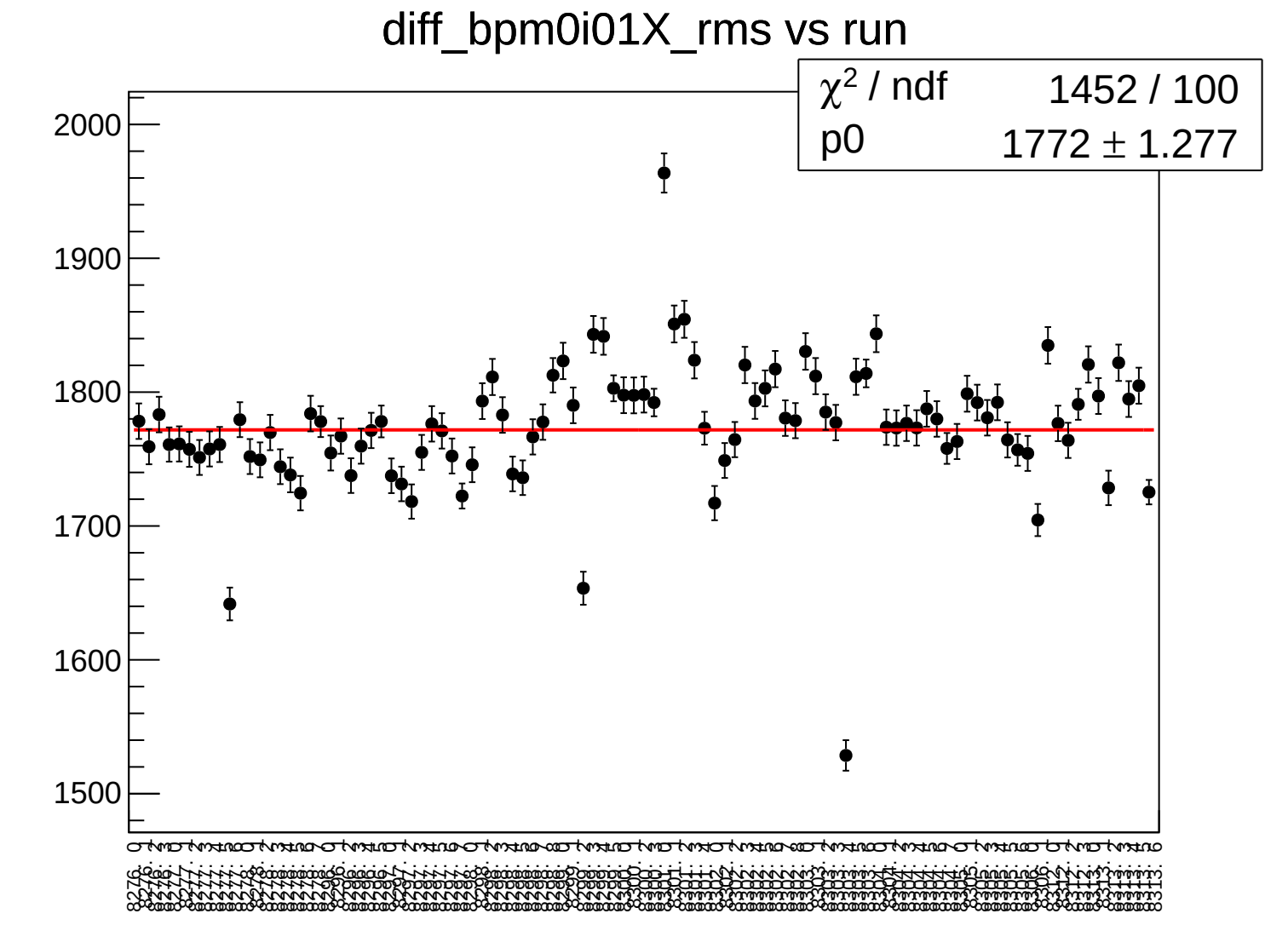

diff_cav4dY_mean vs run
χ² / ndf 112.4 / 100
p0 250 ± 165.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 101
Mean 688.2
Std Dev 0
2
1
0
−1
−2

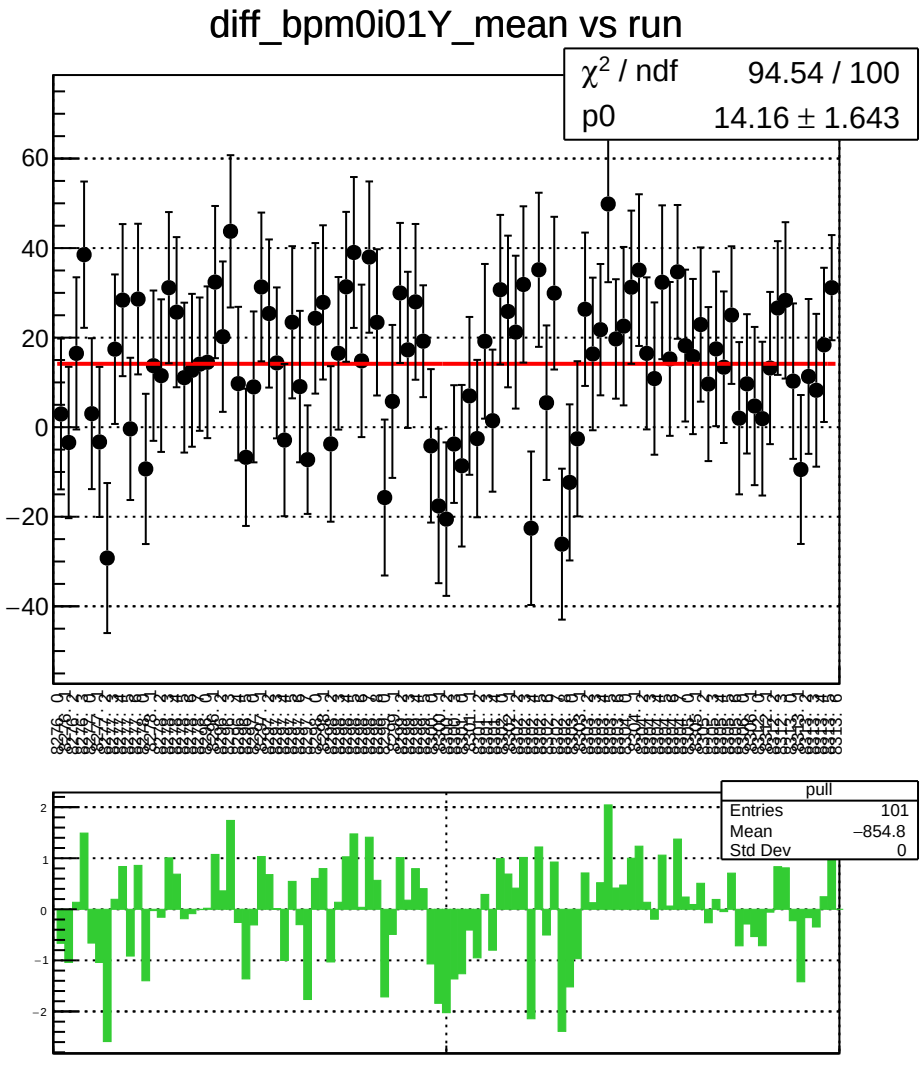

pull1D
Entries 101
Mean 0.01494
Std Dev 1.055
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

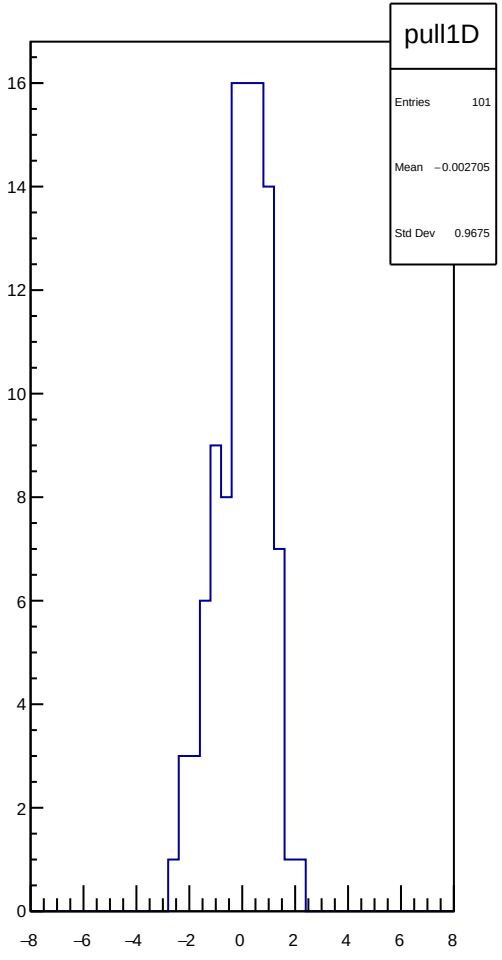

diff_cav4dY_rms vs run
χ^2 / ndf 1.094e+04 / 100
p0 1.617e+05 ± 116.8
×10^3
220
210
200
190
180
170
160
150
140

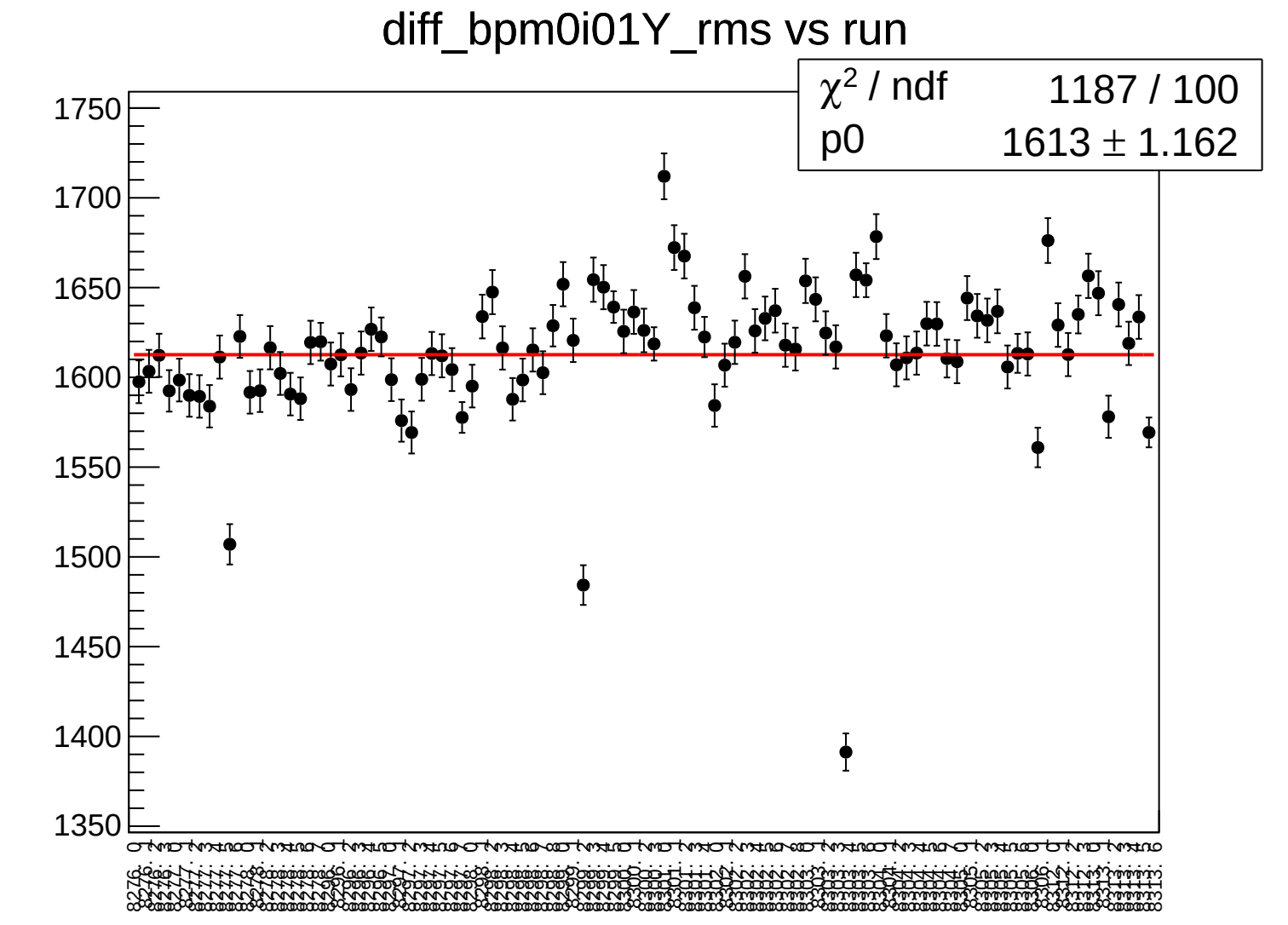

diff_bpm0i01X_mean vs run
χ² / ndf 99.93 / 100
p0 73.22 ± 1.806
pull
Entries 101
Mean 994.7
Std Dev 0

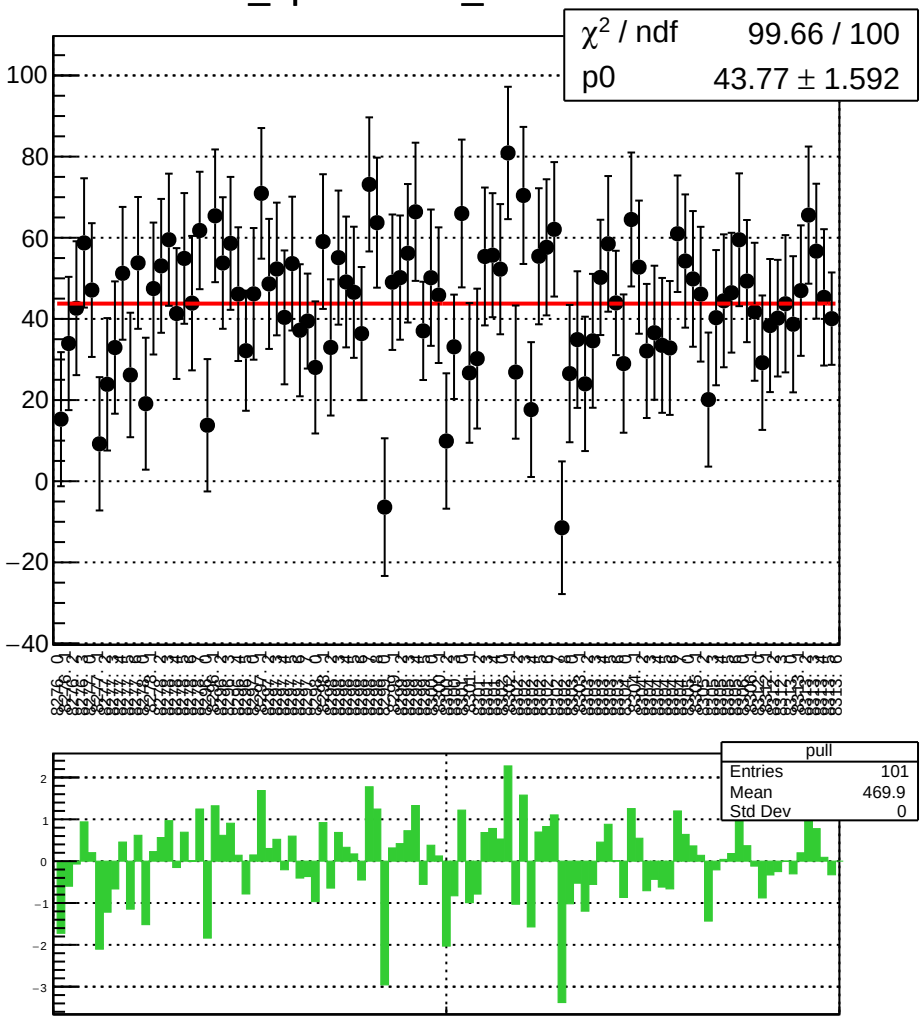

pull1D
Entries 101
Mean 0.0009682
Std Dev 0.9947

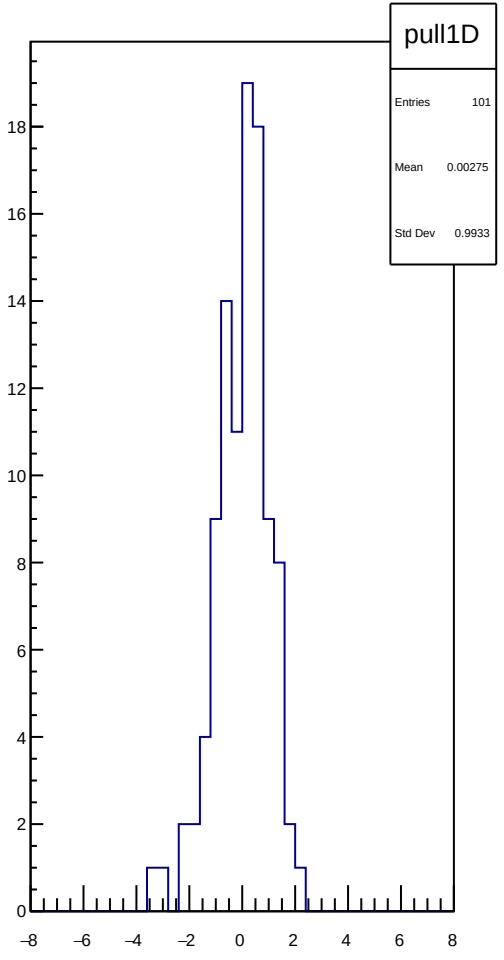

diff_bpm0i01X_rms vs run
χ² / ndf 1452 / 100
p0 1772 ± 1.277
2000
1900
1800
1700
1600
1500

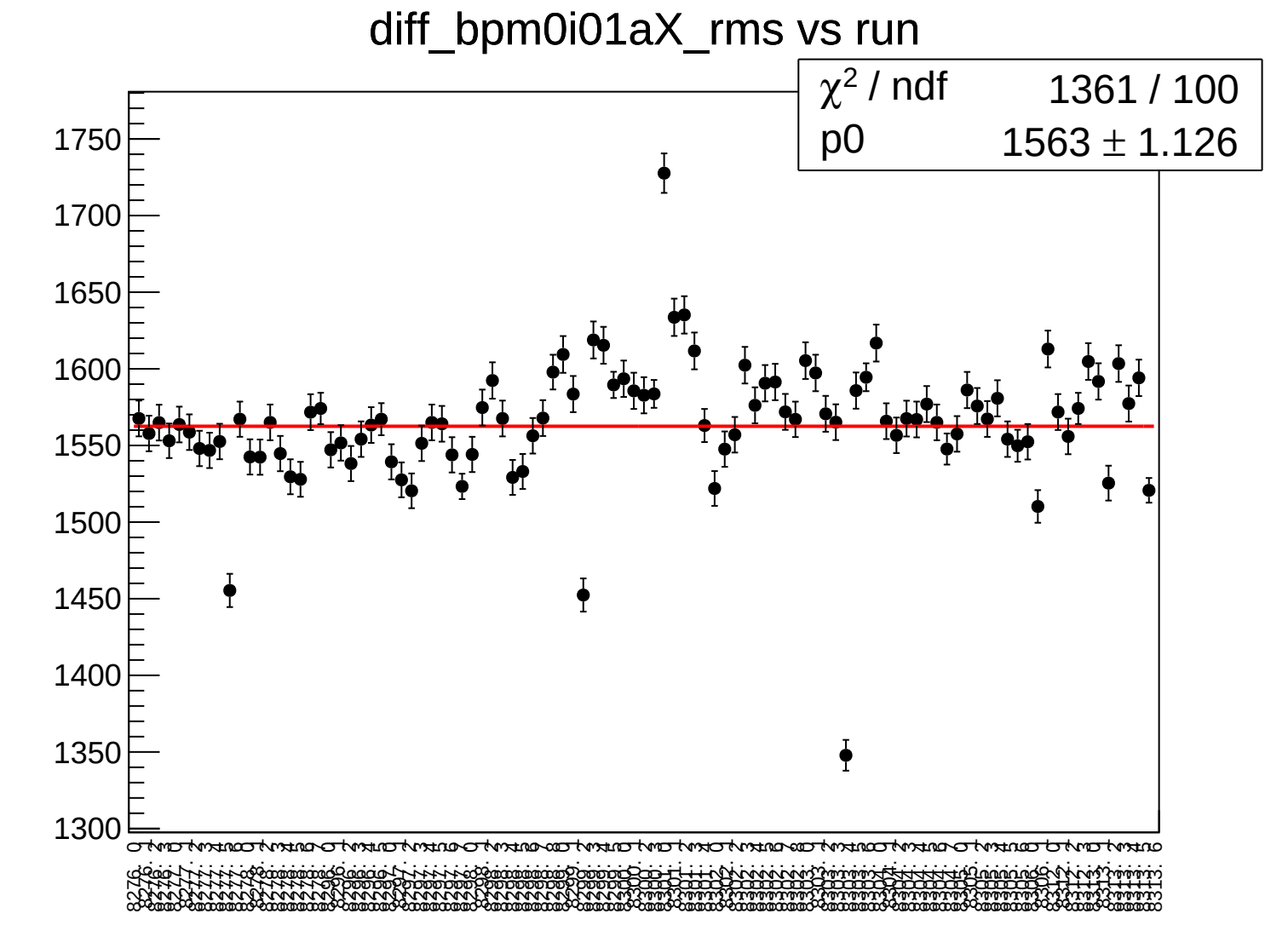

diff_bpm0i01Y_mean vs run
χ^2 / ndf 94.54 / 100
p0 14.16 ± 1.643
pull
Entries 101
Mean −854.8
Std Dev 0

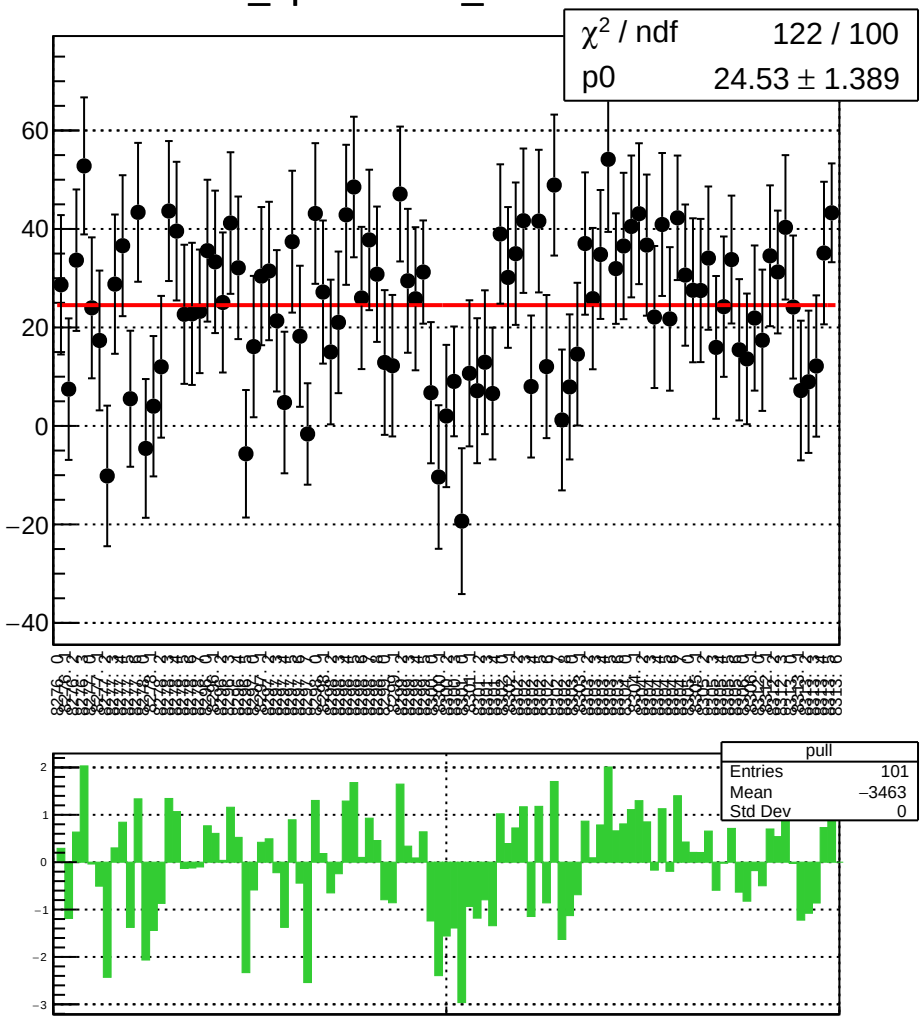

pull1D
Entries 101
Mean −0.002705
Std Dev 0.9675

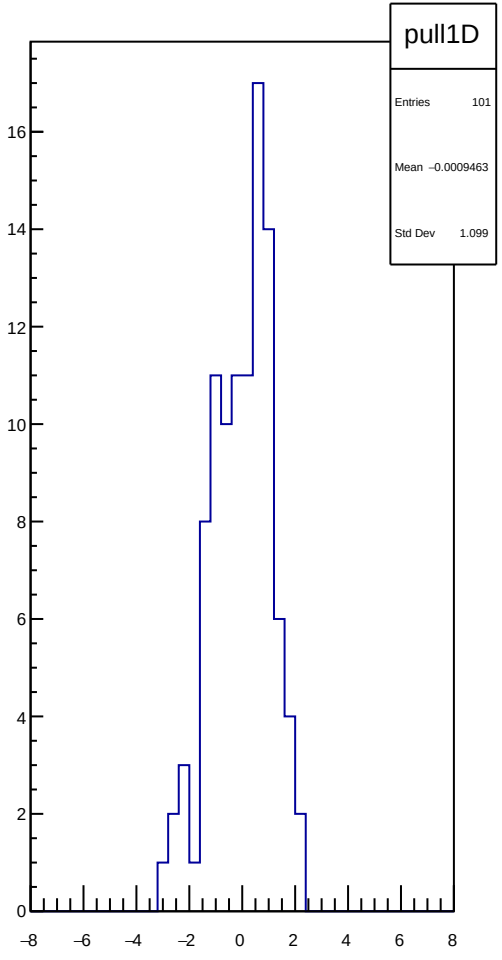

diff_bpm0i01Y_rms vs run
χ^2 / ndf 1187 / 100
p0 1613 ± 1.162
1750
1700
1650
1600
1550
1500
1450
1400
1350

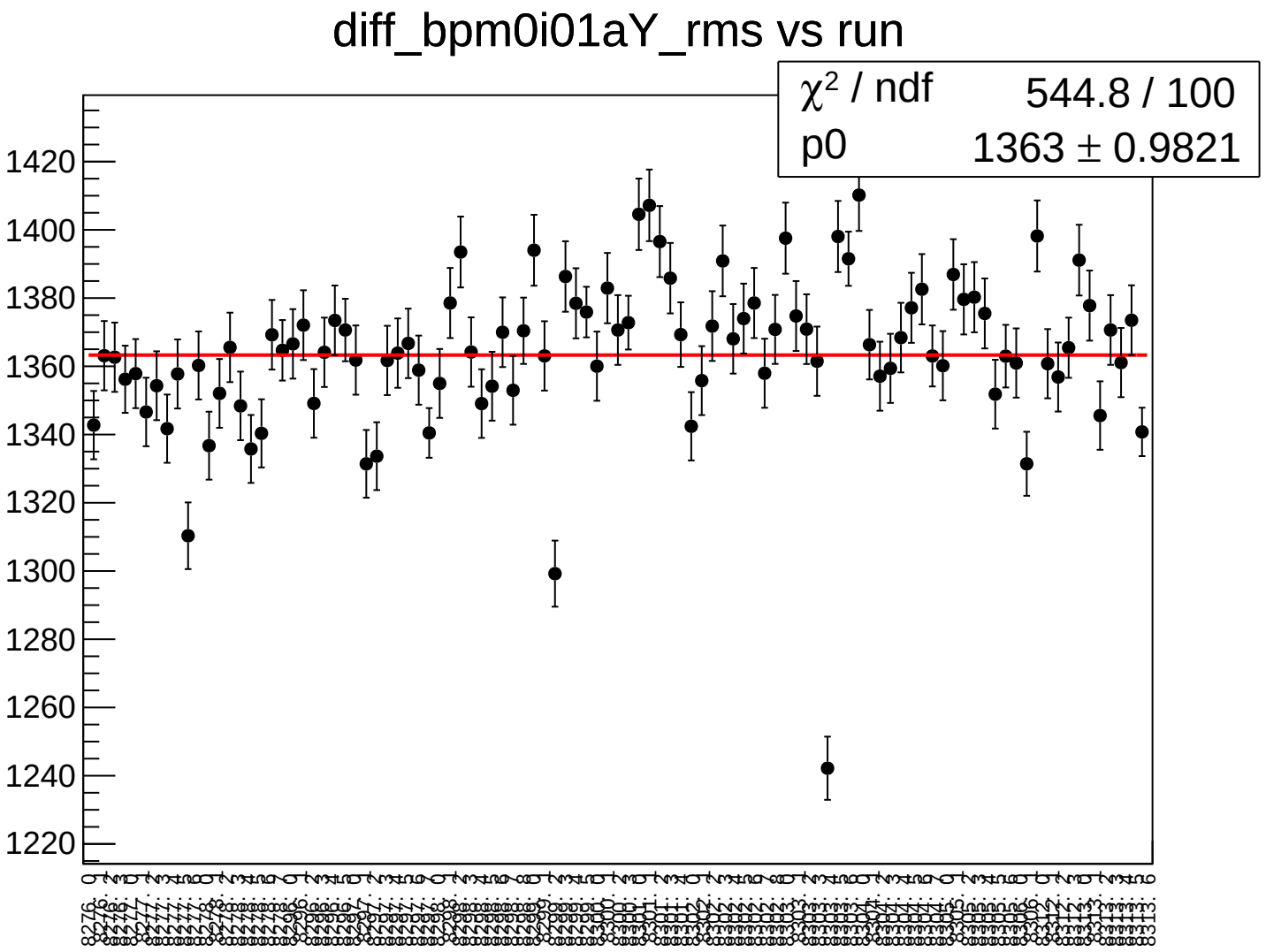

diff_bpm0i01aX_mean vs run
χ² / ndf 99.66 / 100
p0 43.77 ± 1.592
pull
Entries 101
Mean 469.9
Std Dev 0

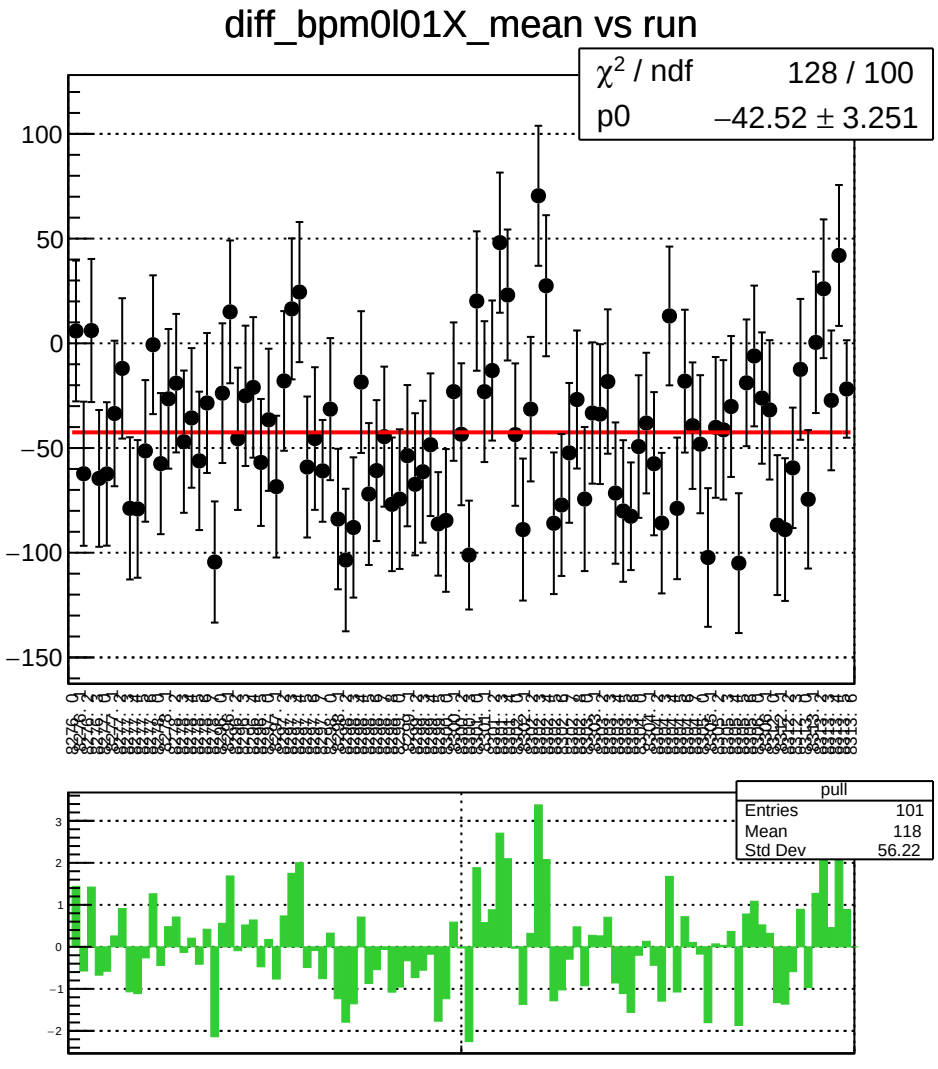

pull1D
Entries 101
Mean 0.00275
Std Dev 0.9933

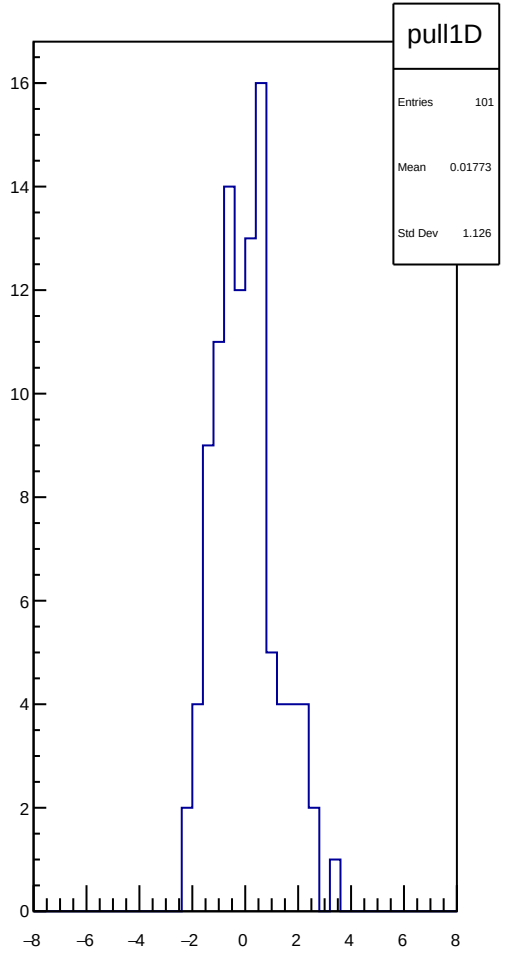

diff_bpm0i01aX_rms vs run
χ² / ndf 1361 / 100
p0 1563 ± 1.126
1750
1700
1650
1600
1550
1500
1450
1400
1350
1300

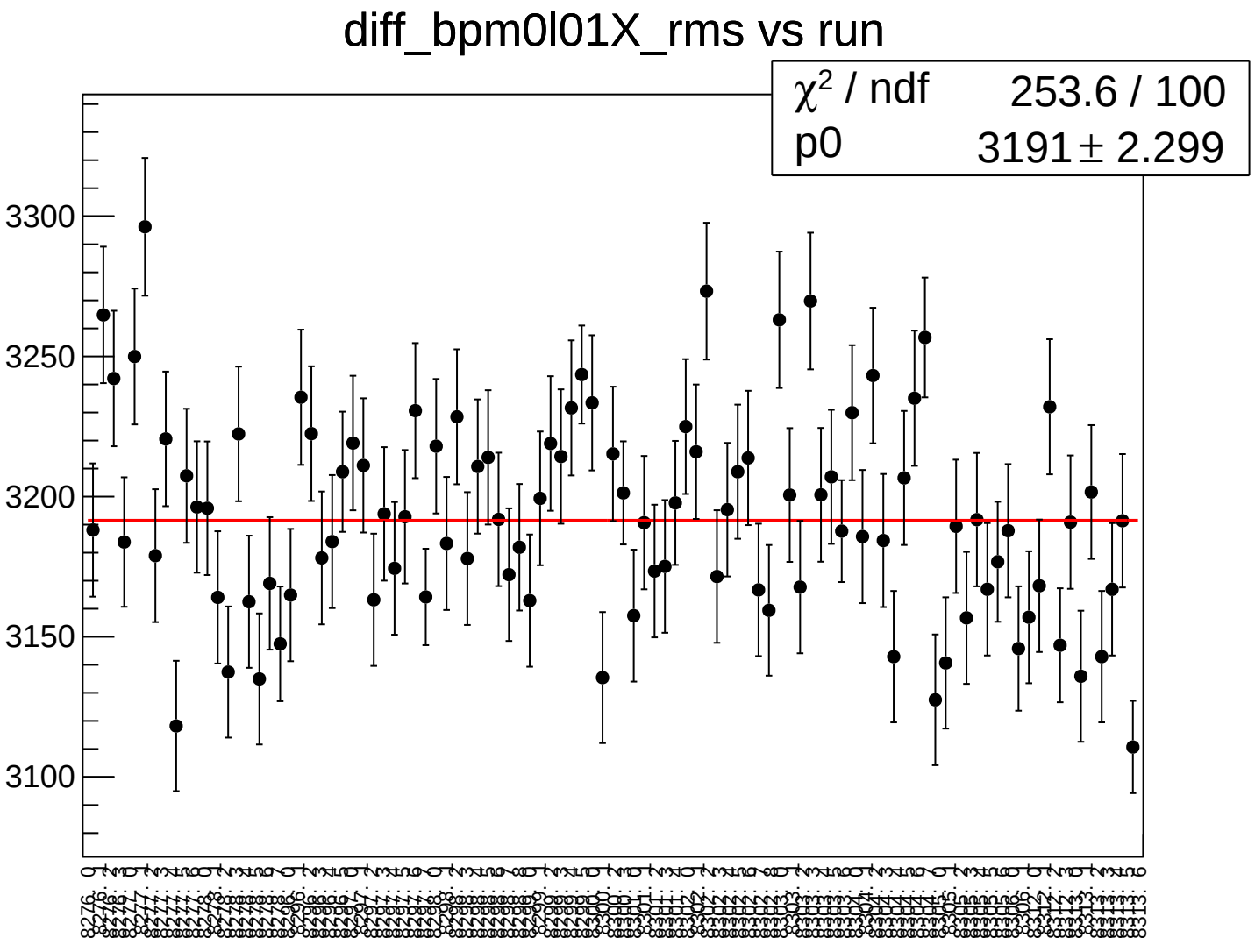

diff_bpm0i01aY_mean vs run
χ² / ndf 122 / 100
p0 24.53 ± 1.389
pull
Entries 101
Mean −3463
Std Dev 0

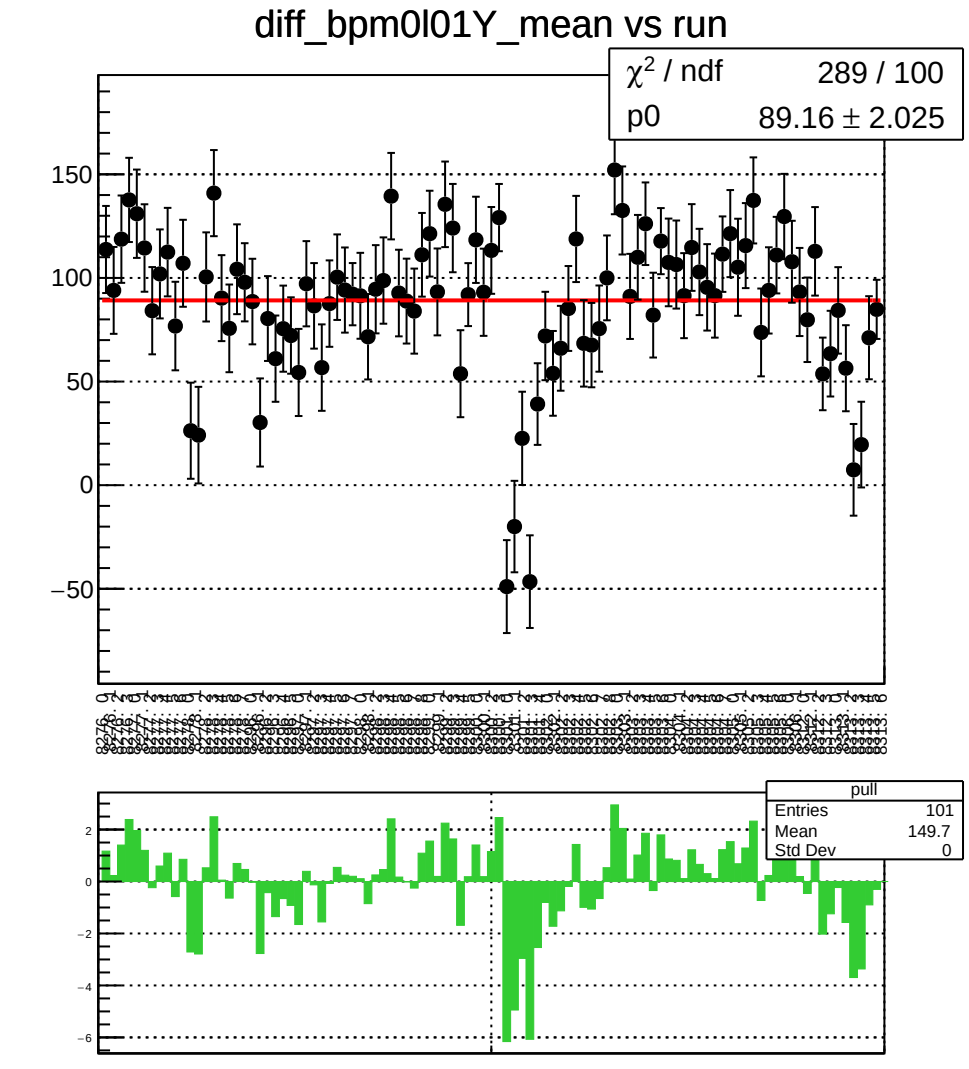

pull1D
Entries 101
Mean −0.0009463
Std Dev 1.099

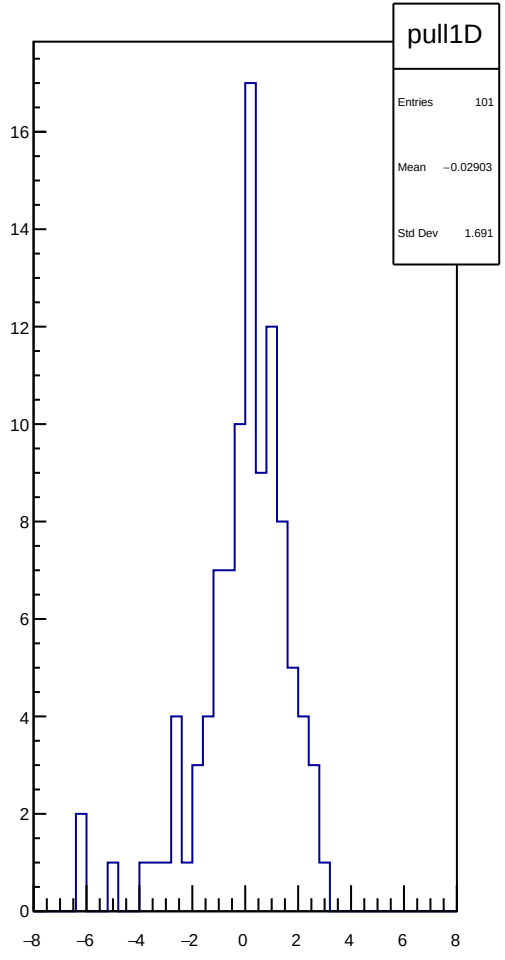

diff_bpm0i01aY_rms vs run
χ² / ndf 544.8 / 100
p0 1363 ± 0.9821
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220

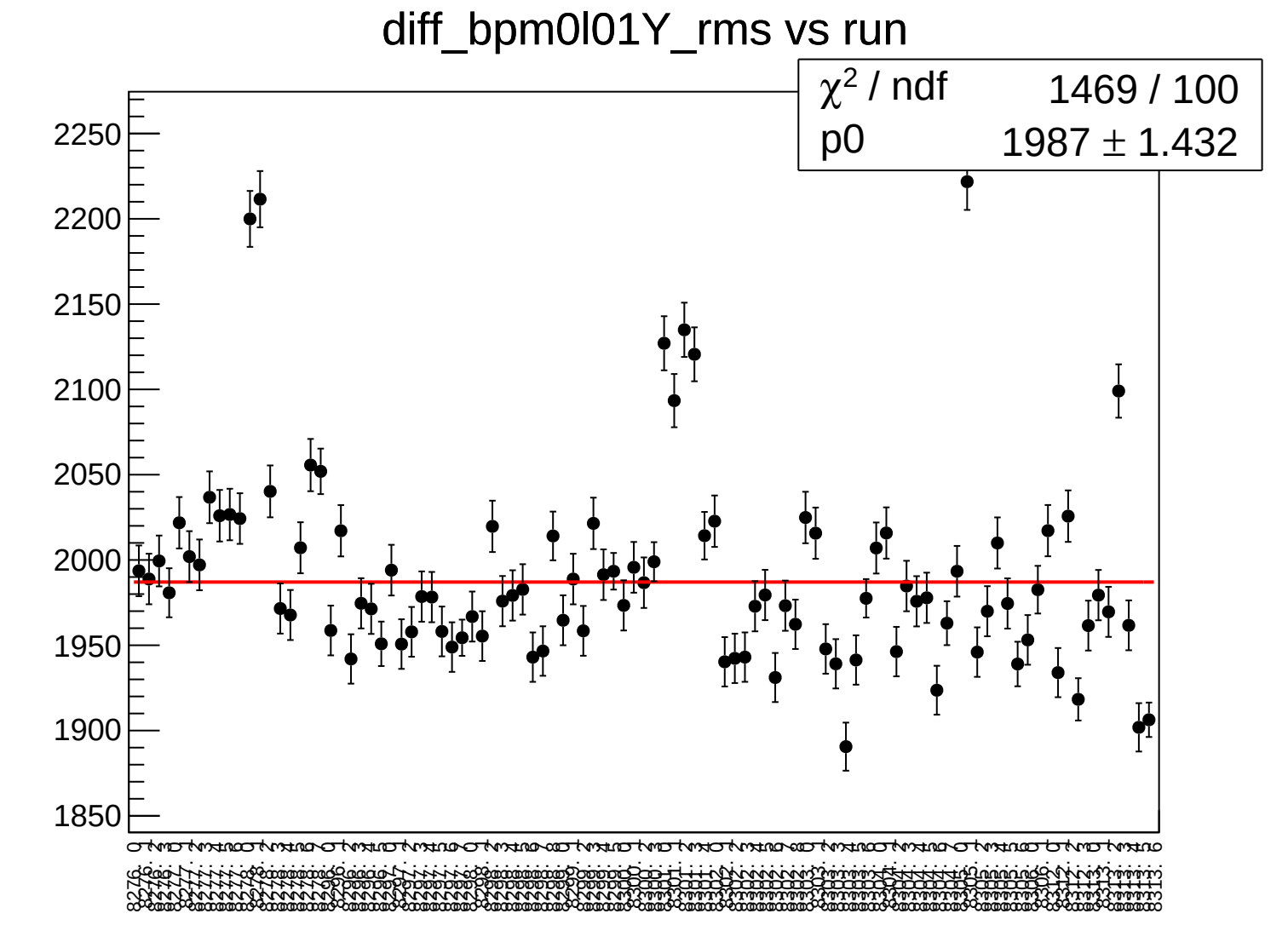

diff_bpm0l01X_mean vs run
χ² / ndf 128 / 100
p0 −42.52 ± 3.251
100
50
0
−50
−100
−150
pull
Entries 101
Mean 118
Std Dev 56.22
3
2
1
0
−1
−2

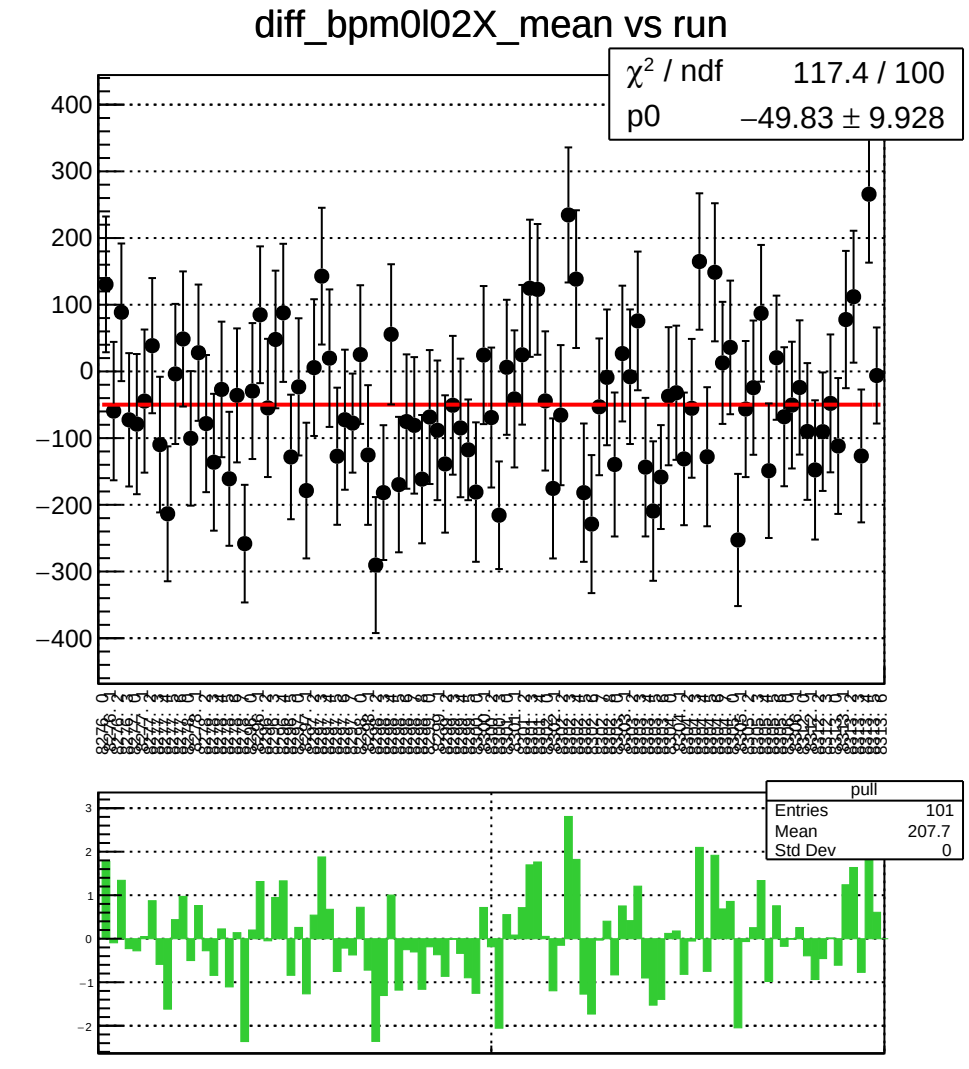

pull1D
Entries 101
Mean 0.01773
Std Dev 1.126
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

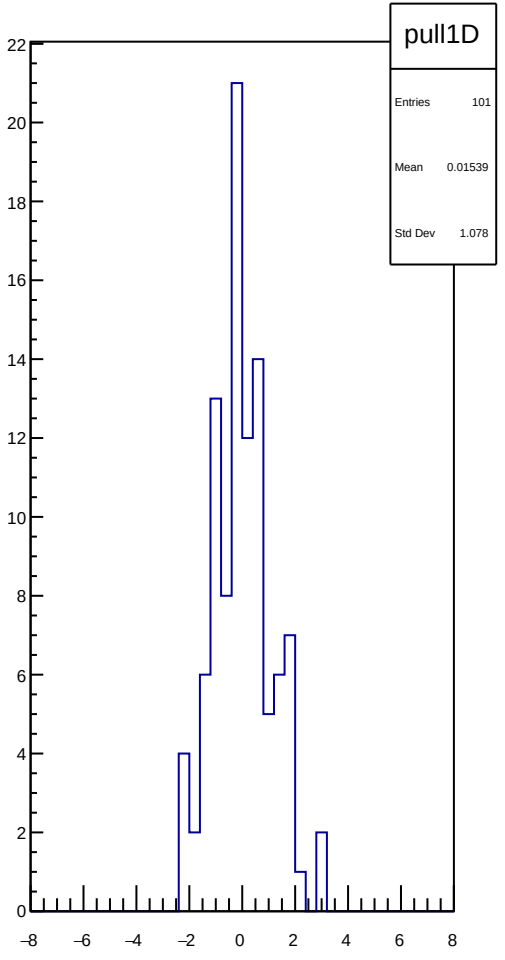

diff_bpm0l01X_rms vs run
χ² / ndf 253.6 / 100
p0 3191 ± 2.299
3300
3250
3200
3150
3100

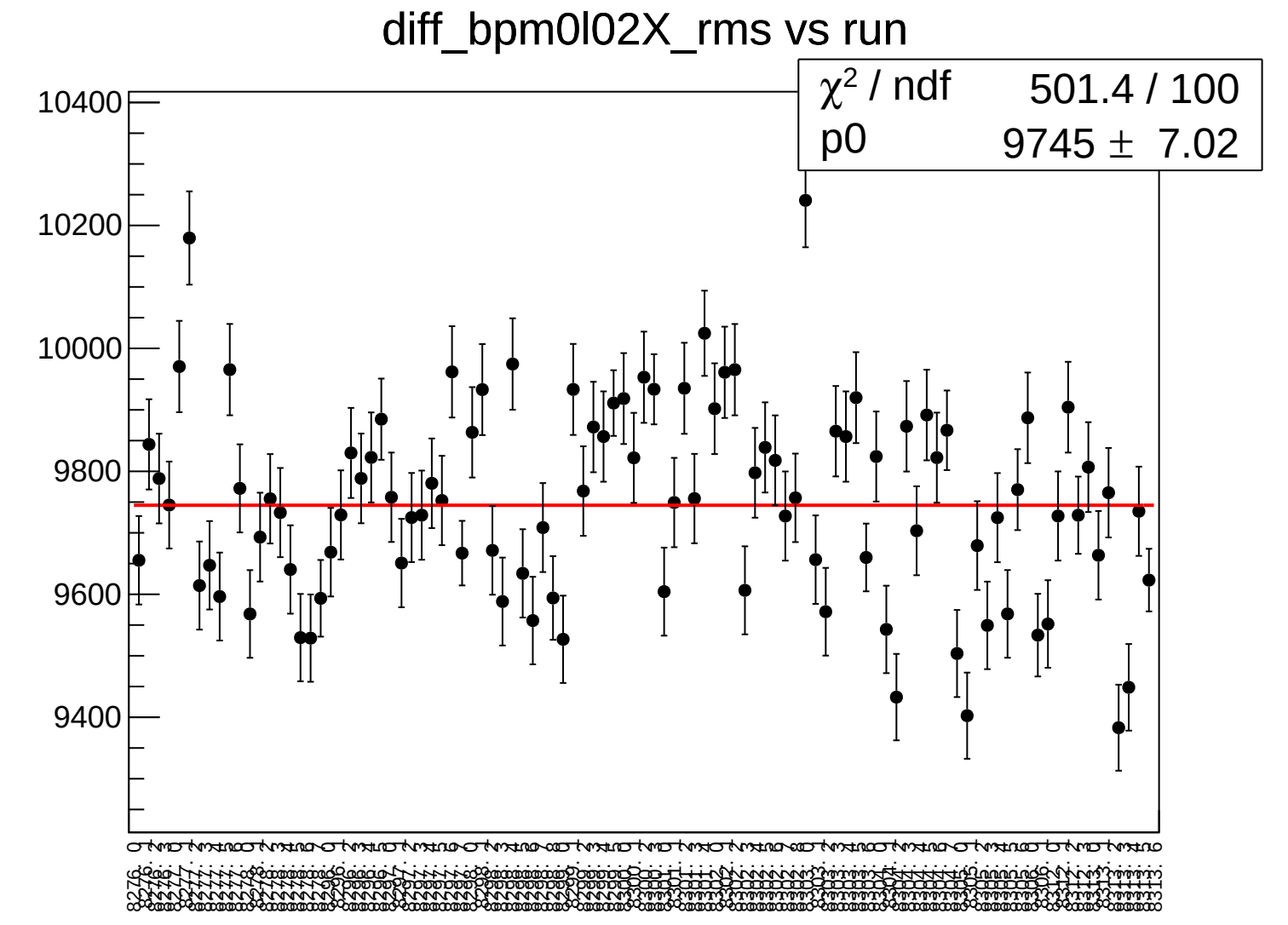

diff_bpm0l01Y_mean vs run
χ² / ndf 289 / 100
p0 89.16 ± 2.025
150
100
50
0
−50
pull
Entries 101
Mean 149.7
Std Dev 0
2
0
−2
−4
−6

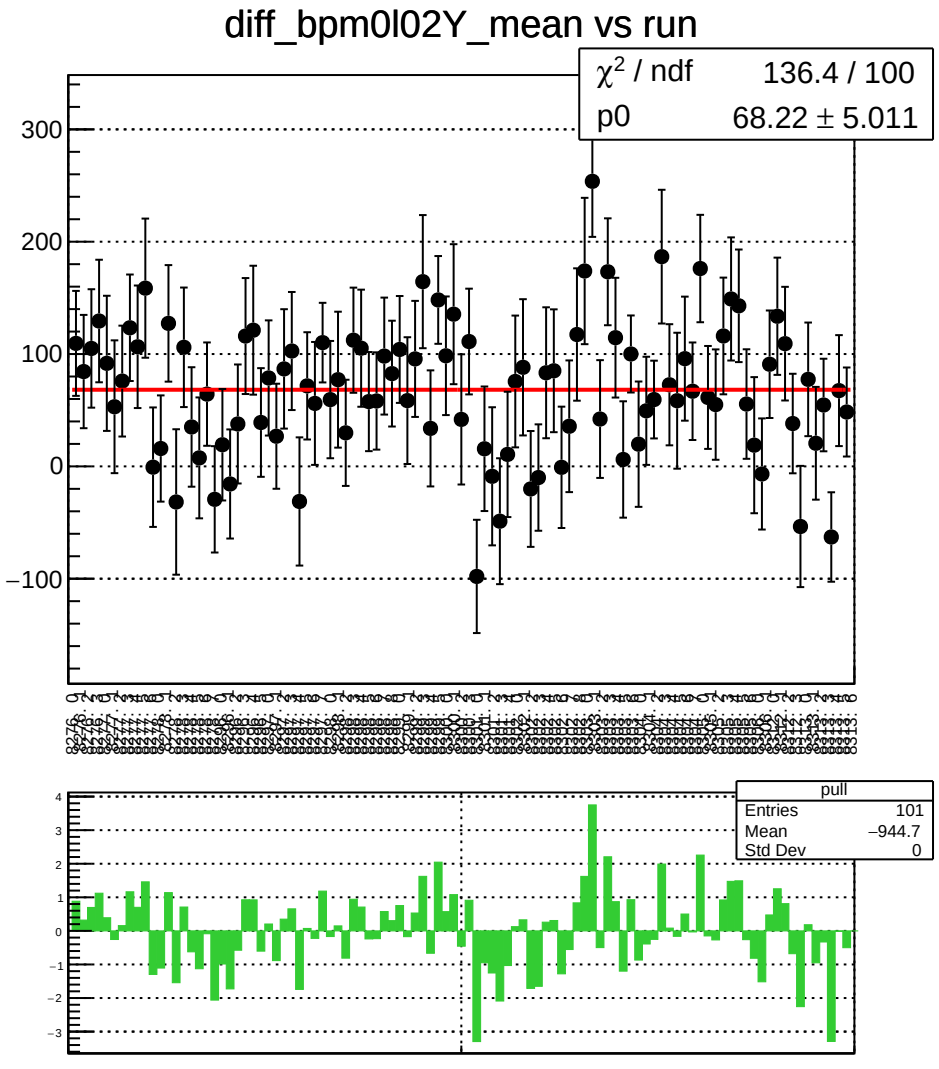

pull1D
Entries 101
Mean −0.02903
Std Dev 1.691
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

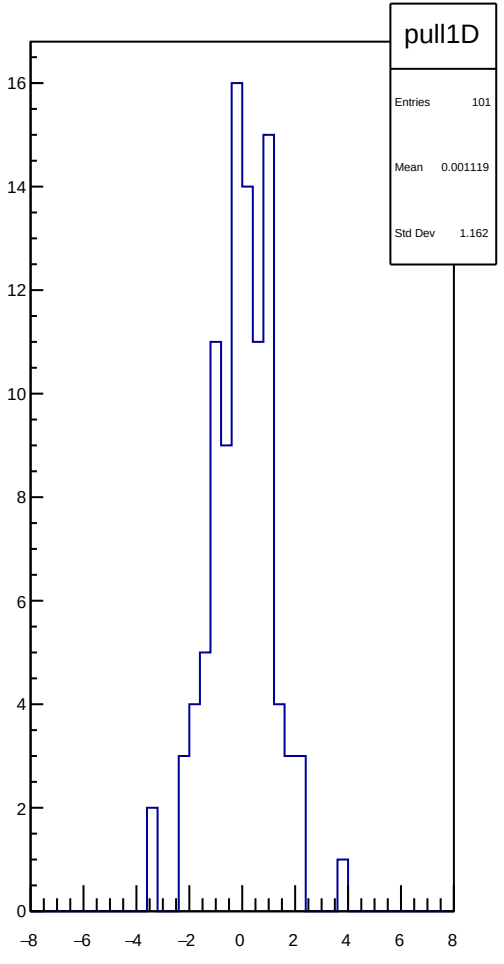

diff_bpm0l01Y_rms vs run
χ² / ndf 1469 / 100
p0 1987 ± 1.432
2250
2200
2150
2100
2050
2000
1950
1900
1850

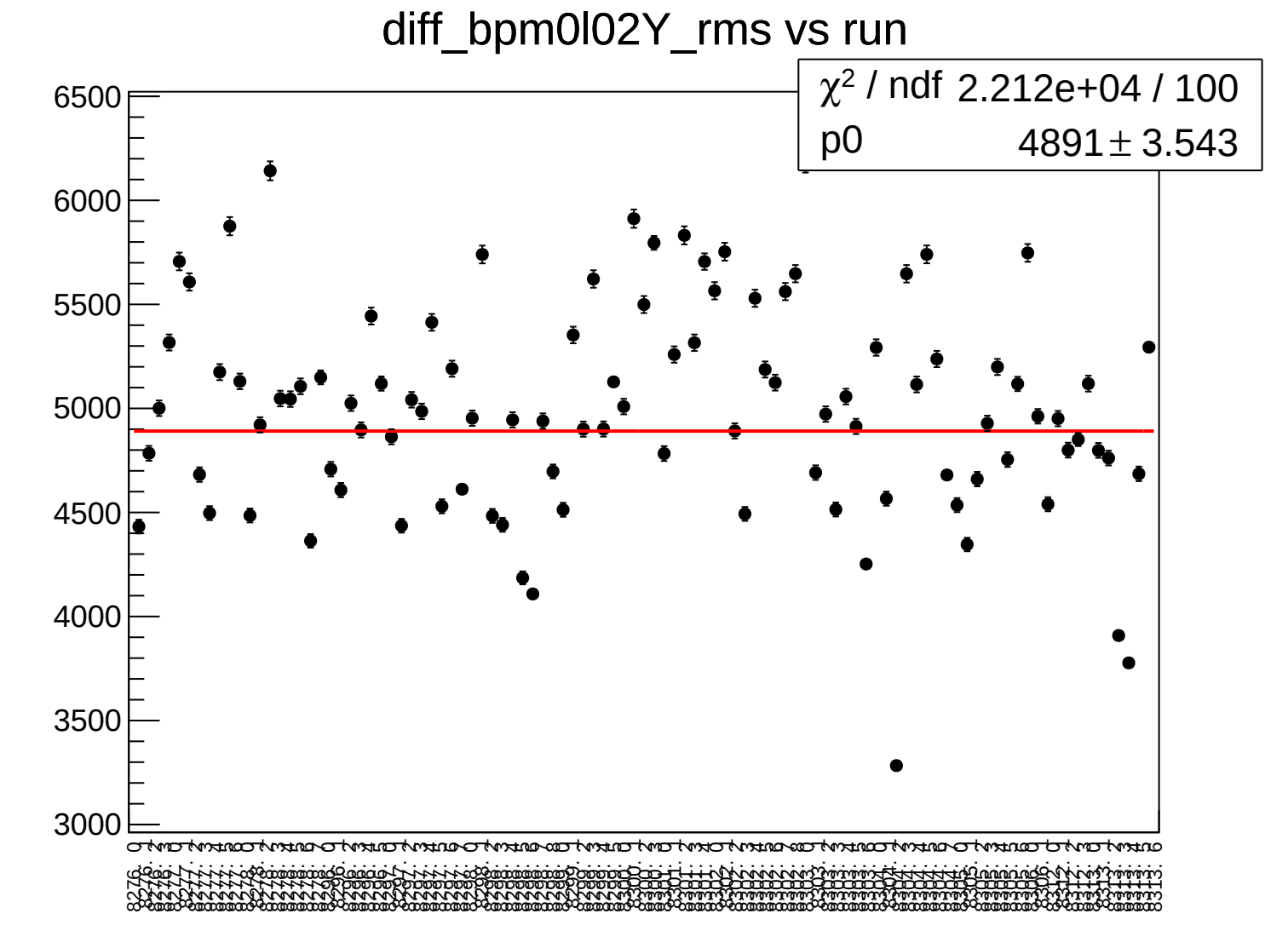

diff_bpm0l02X_mean vs run
χ² / ndf 117.4 / 100
p0 −49.83 ± 9.928
pull
Entries 101
Mean 207.7
Std Dev 0

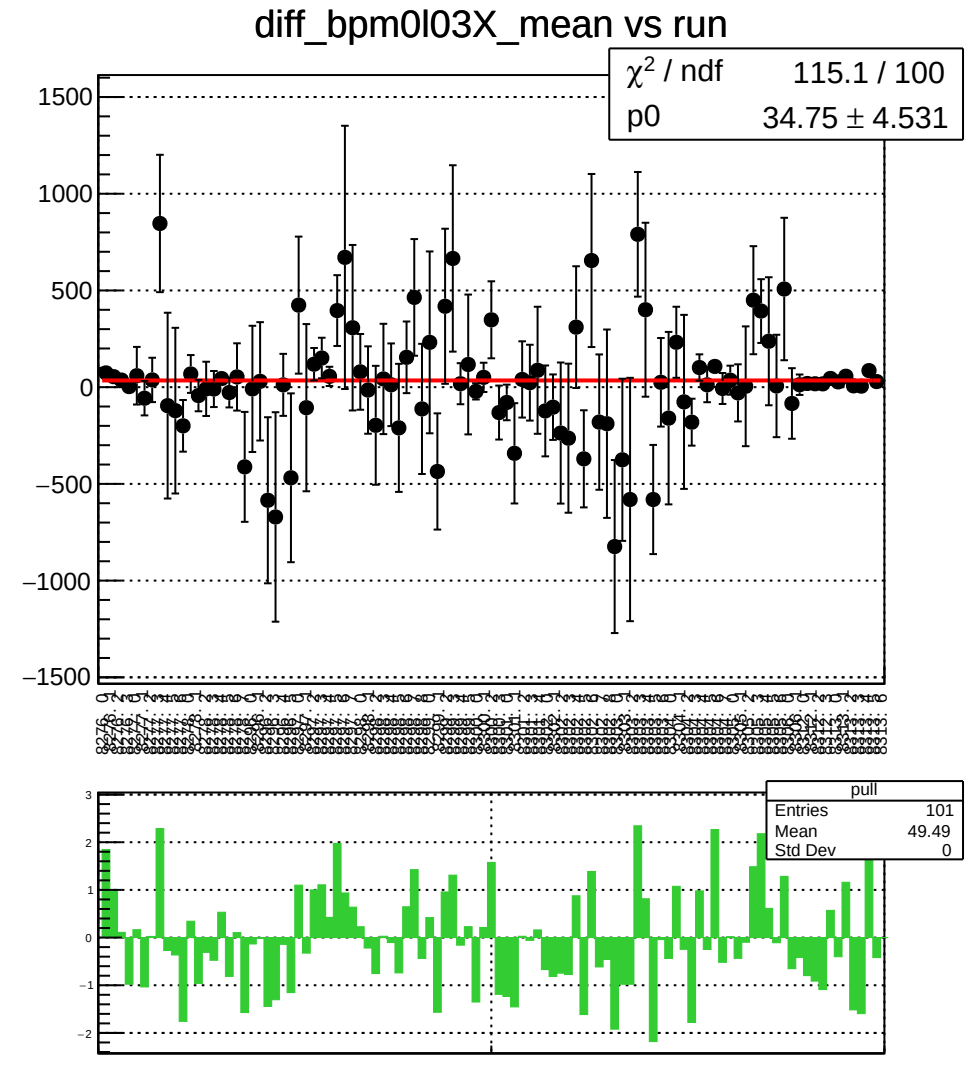

pull1D
Entries 101
Mean 0.01539
Std Dev 1.078

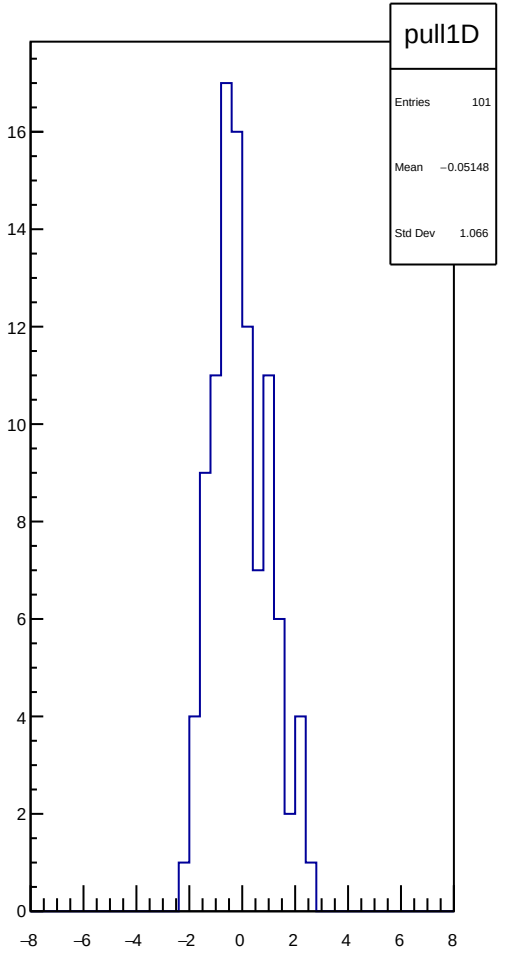

diff_bpm0l02X_rms vs run
χ² / ndf 501.4 / 100
p0 9745 ± 7.02
10400
10200
10000
9800
9600
9400

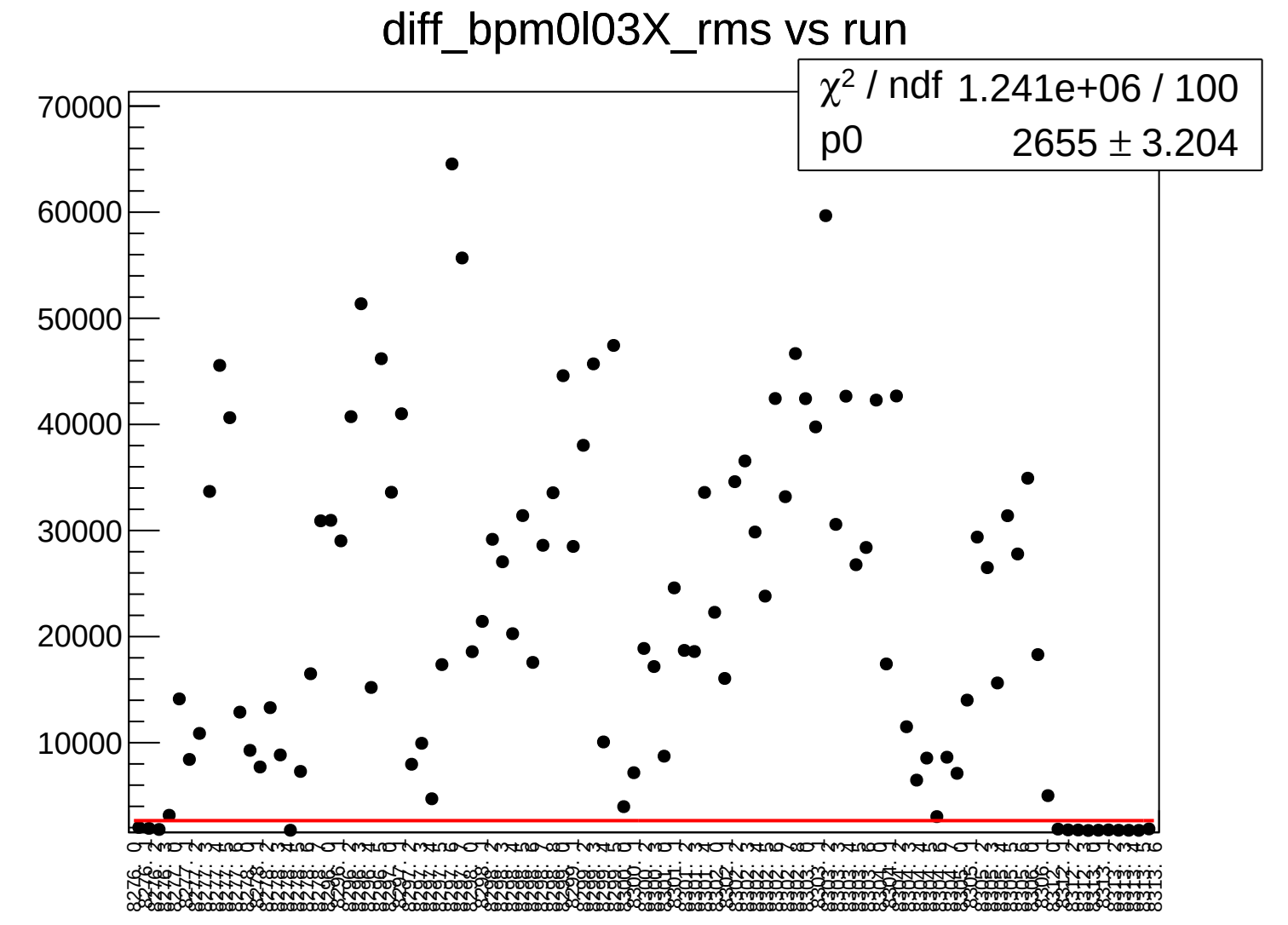

diff_bpm0l02Y_mean vs run
χ² / ndf 136.4 / 100
p0 68.22 ± 5.011
300
200
100
0
−100
pull
Entries 101
Mean −944.7
Std Dev 0
4
3
2
1
0
−1
−2
−3

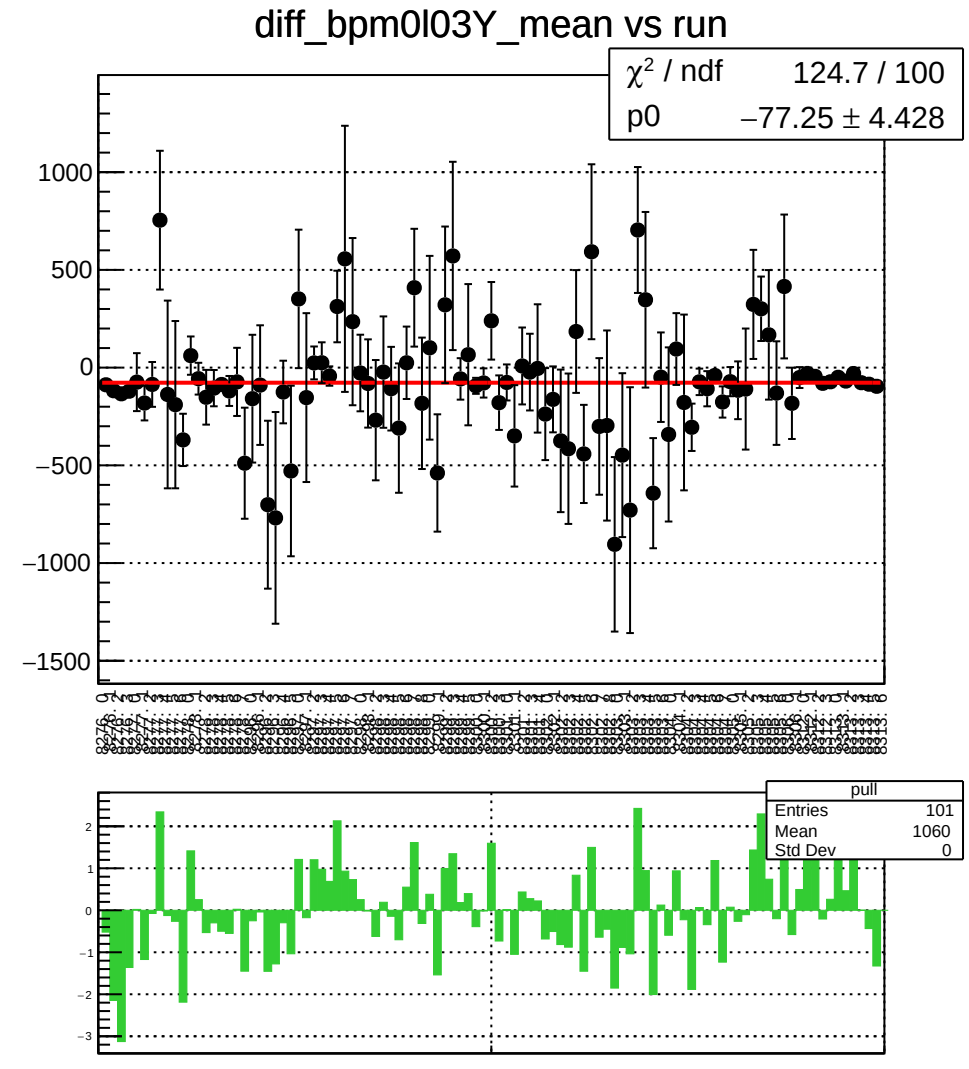

pull1D
Entries 101
Mean 0.001119
Std Dev 1.162
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

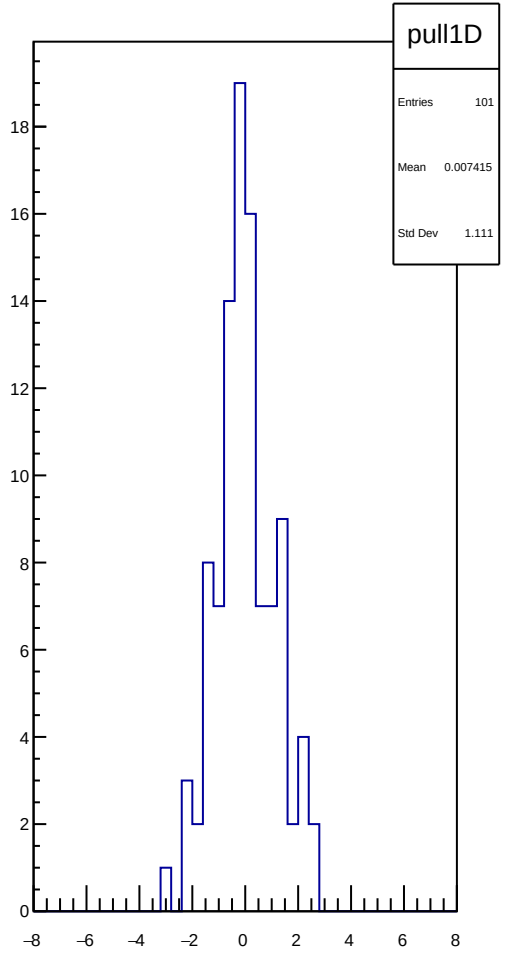

diff_bpm0l02Y_rms vs run
χ² / ndf 2.212e+04 / 100
p0 4891 ± 3.543
6500
6000
5500
5000
4500
4000
3500
3000

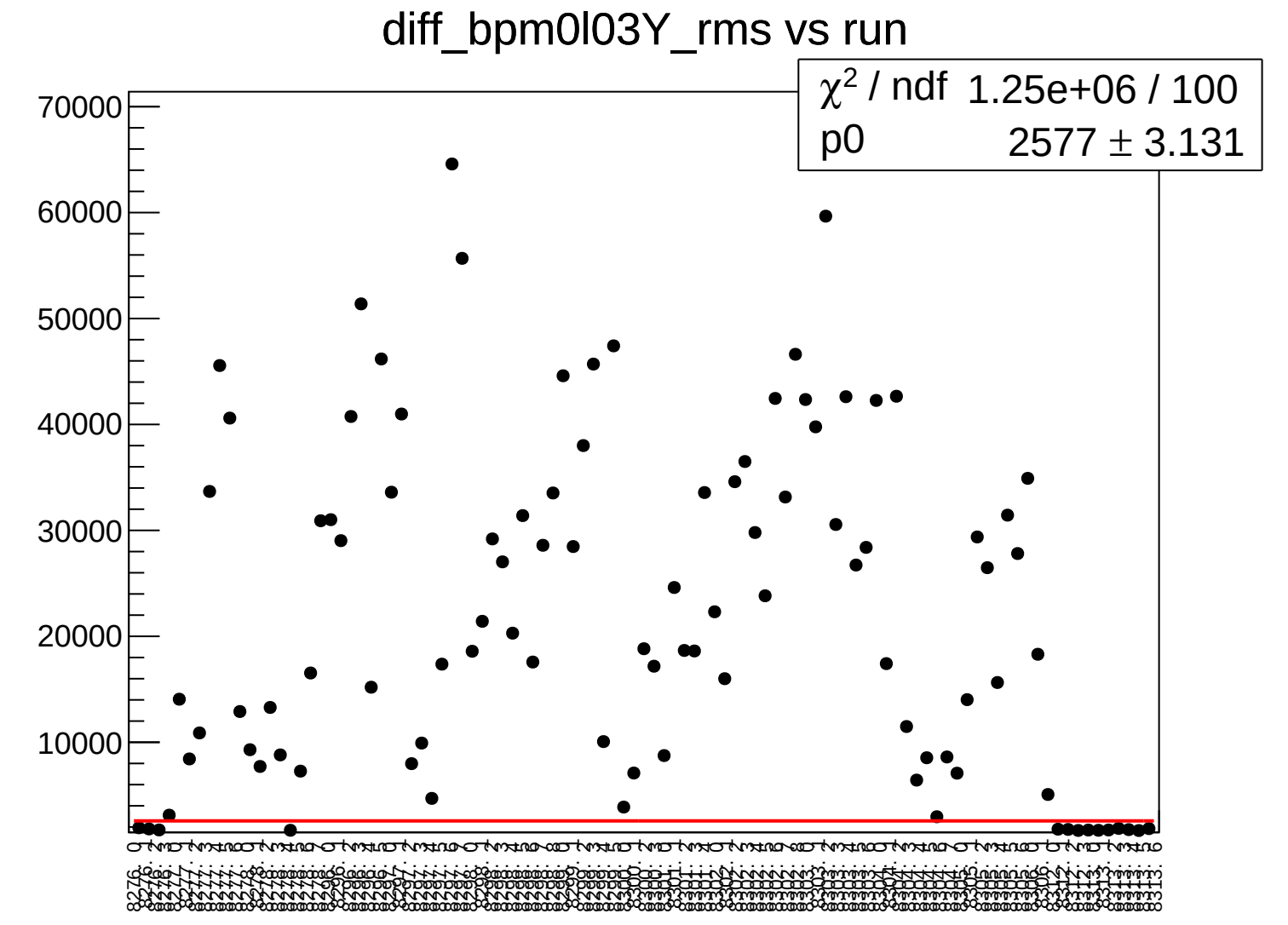

diff_bpm0l03X_mean vs run
χ² / ndf 115.1 / 100
p0 34.75 ± 4.531
pull
Entries 101
Mean 49.49
Std Dev 0

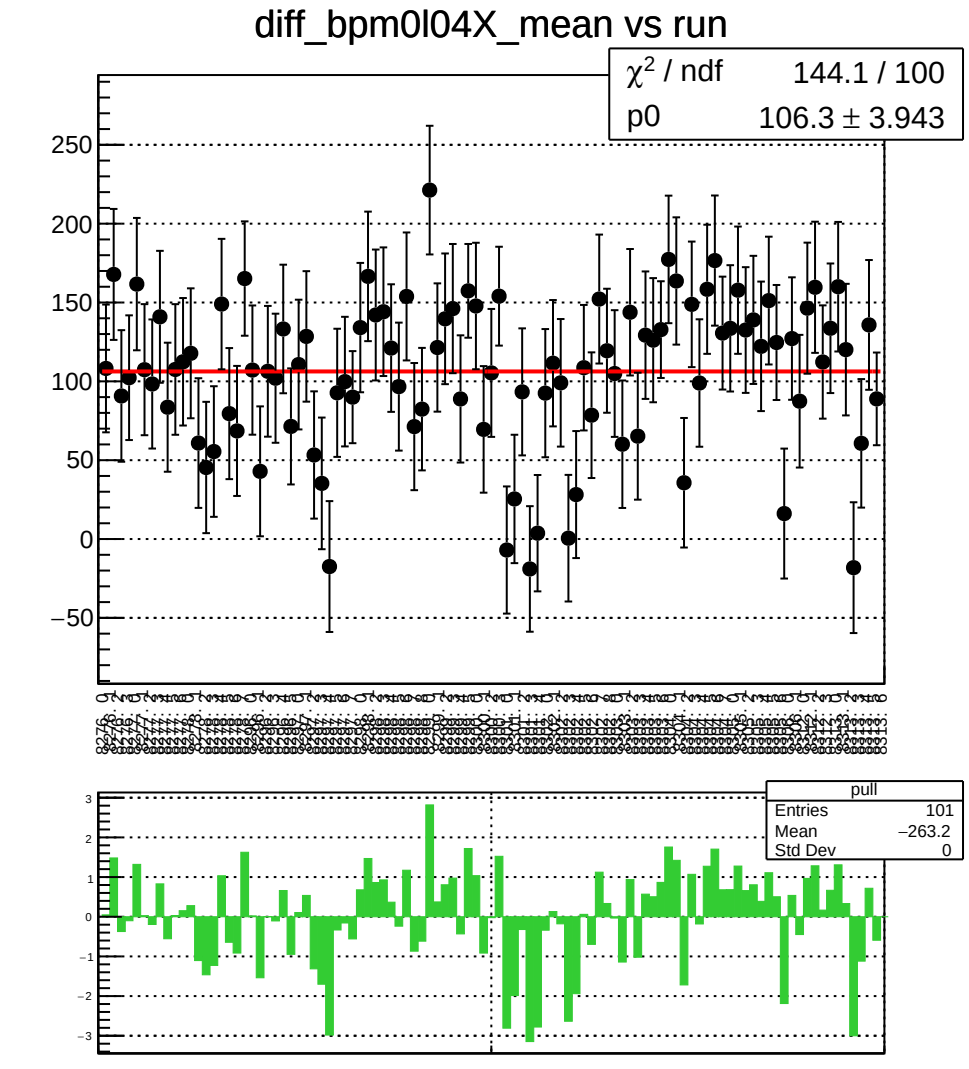

pull1D
Entries 101
Mean −0.05148
Std Dev 1.066

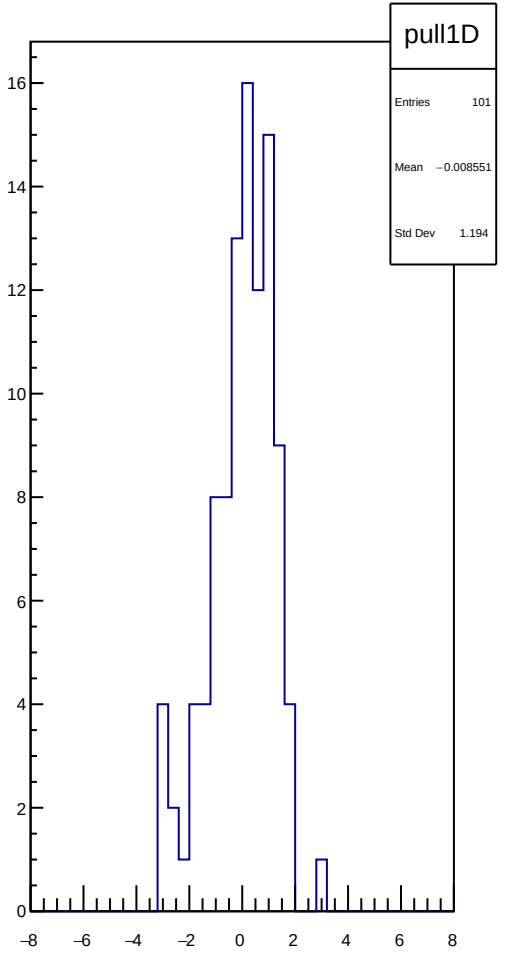

diff_bpm0l03X_rms vs run
χ² / ndf 1.241e+06 / 100
p0 2655 ± 3.204
70000
60000
50000
40000
30000
20000
10000

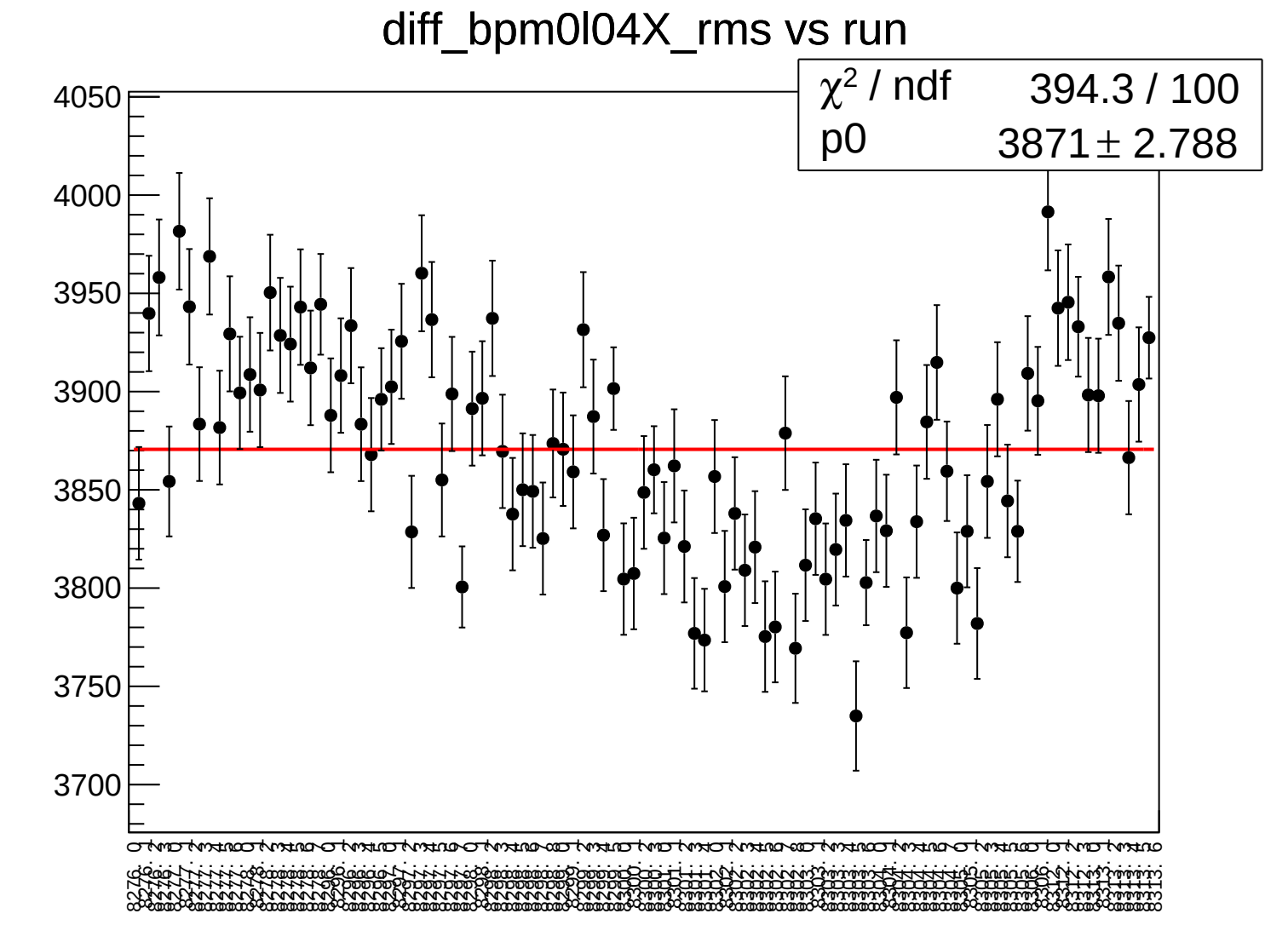

diff_bpm0l03Y_mean vs run
χ² / ndf 124.7 / 100
p0 −77.25 ± 4.428
1000
500
0
−500
−1000
−1500
pull
Entries 101
Mean 1060
Std Dev 0
2
1
0
−1
−2
−3

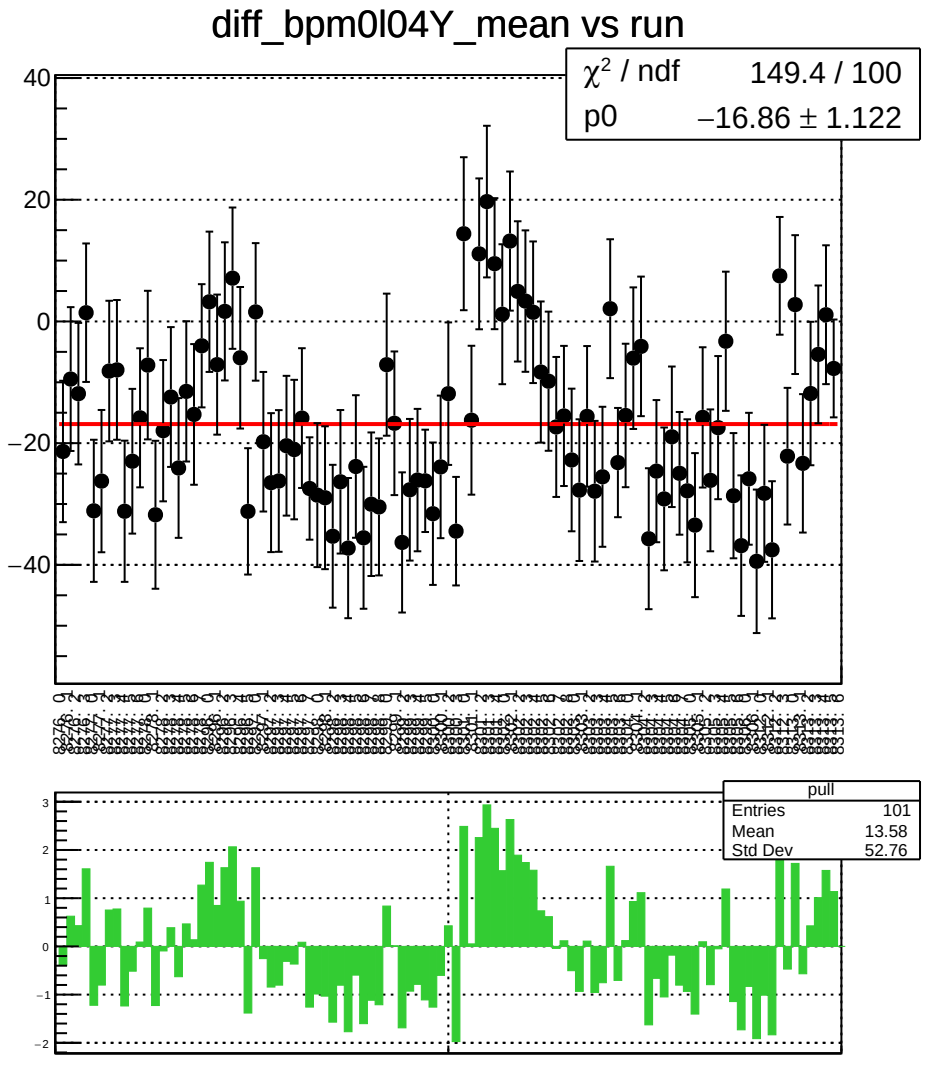

pull1D
Entries 101
Mean 0.007415
Std Dev 1.111
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

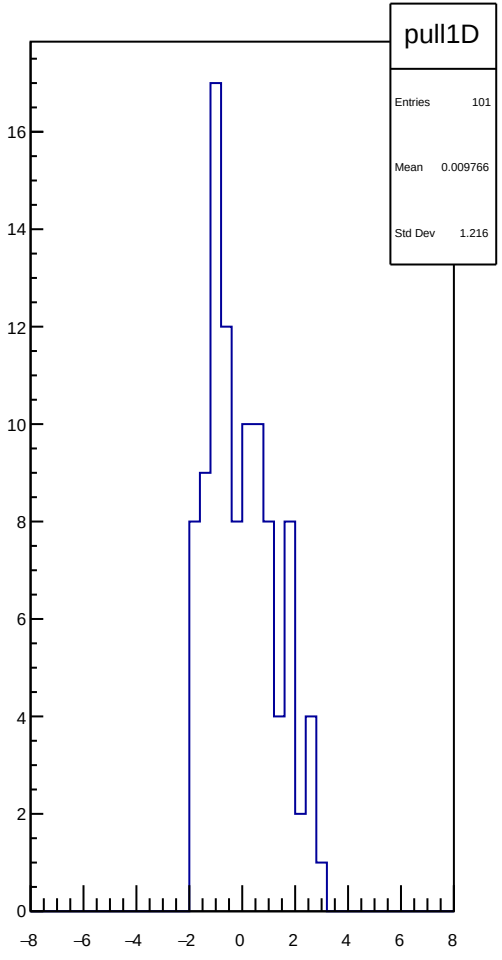

diff_bpm0l03Y_rms vs run
χ² / ndf 1.25e+06 / 100
p0 2577 ± 3.131
70000
60000
50000
40000
30000
20000
10000

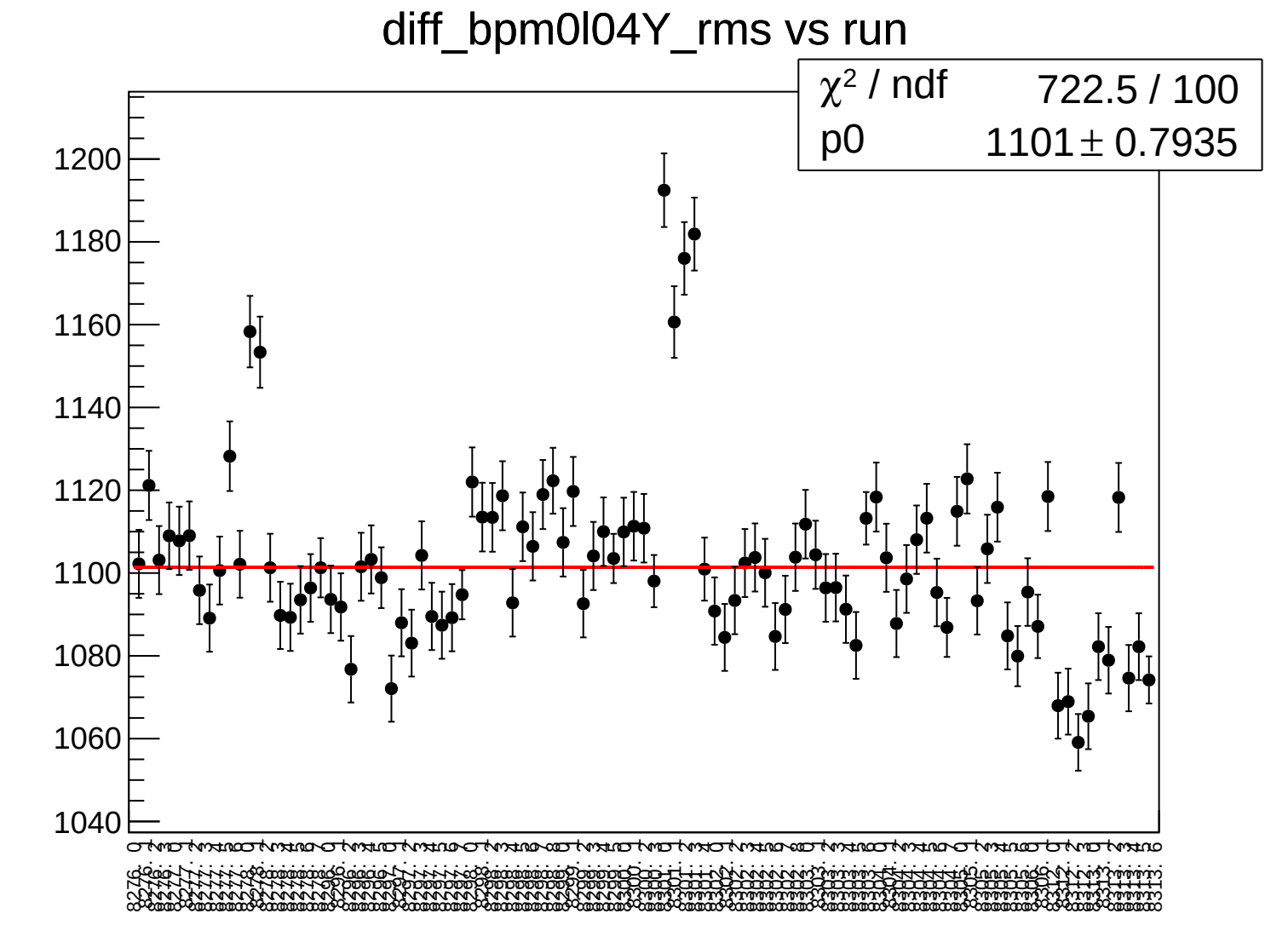

diff_bpm0l04X_mean vs run
χ² / ndf 144.1 / 100
p0 106.3 ± 3.943
250
200
150
100
50
0
−50
pull
Entries 101
Mean −263.2
Std Dev 0
3
2
1
0
−1
−2
−3

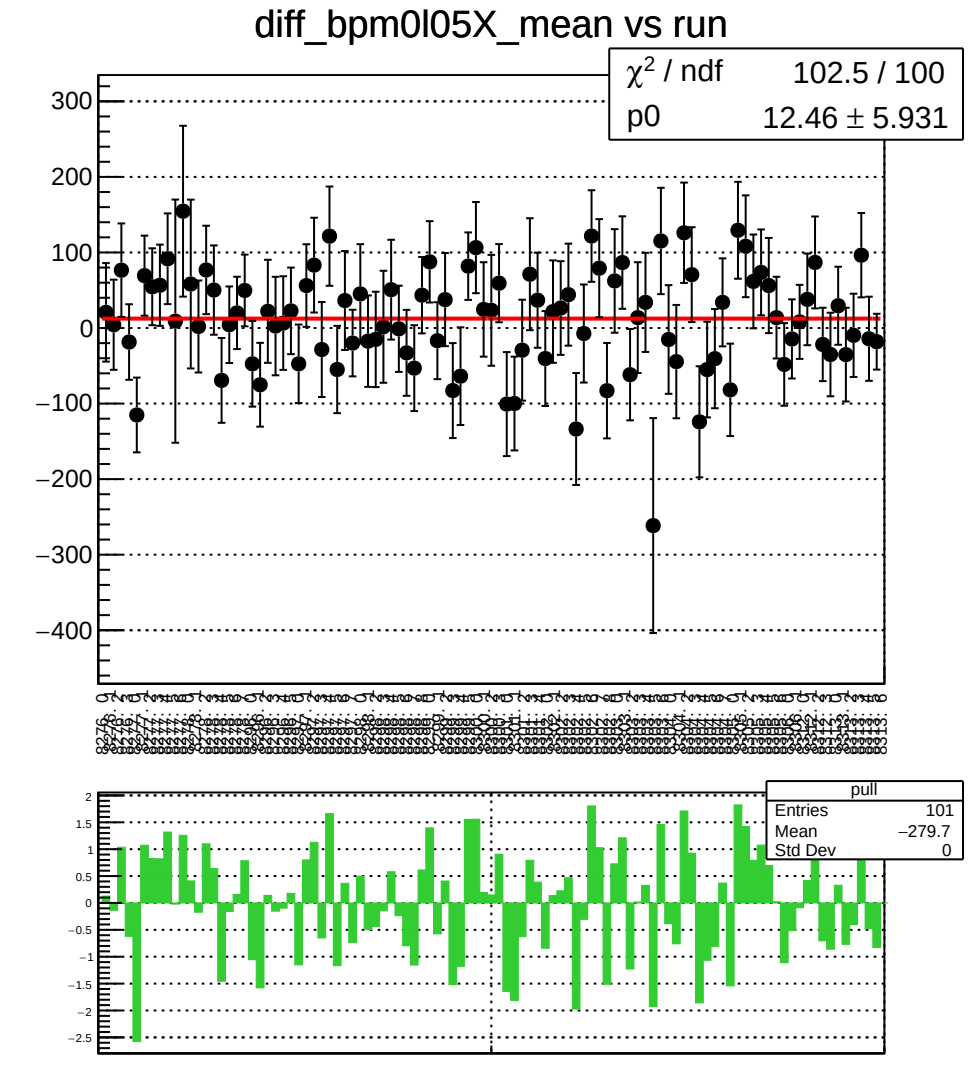

pull1D
Entries 101
Mean −0.008551
Std Dev 1.194
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

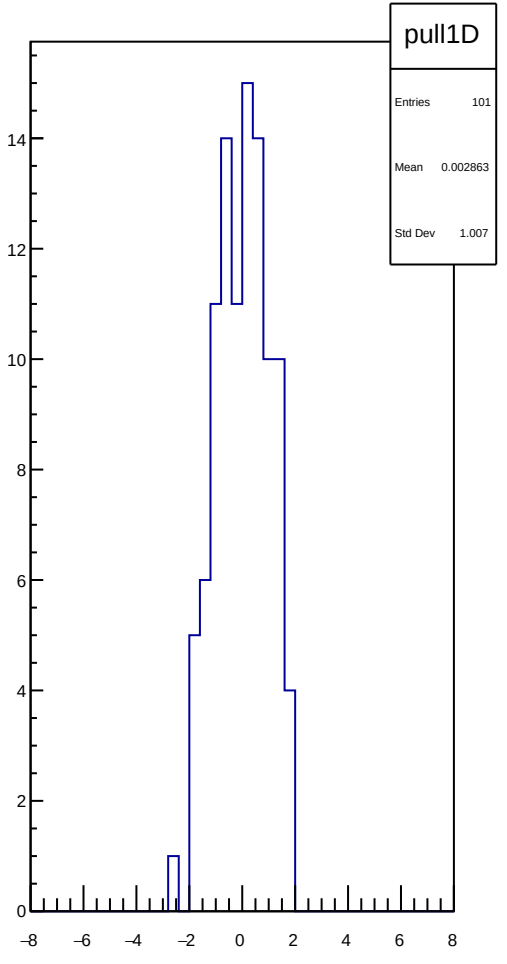

diff_bpm0l04X_rms vs run
χ² / ndf 394.3 / 100
p0 3871 ± 2.788
4050
4000
3950
3900
3850
3800
3750
3700

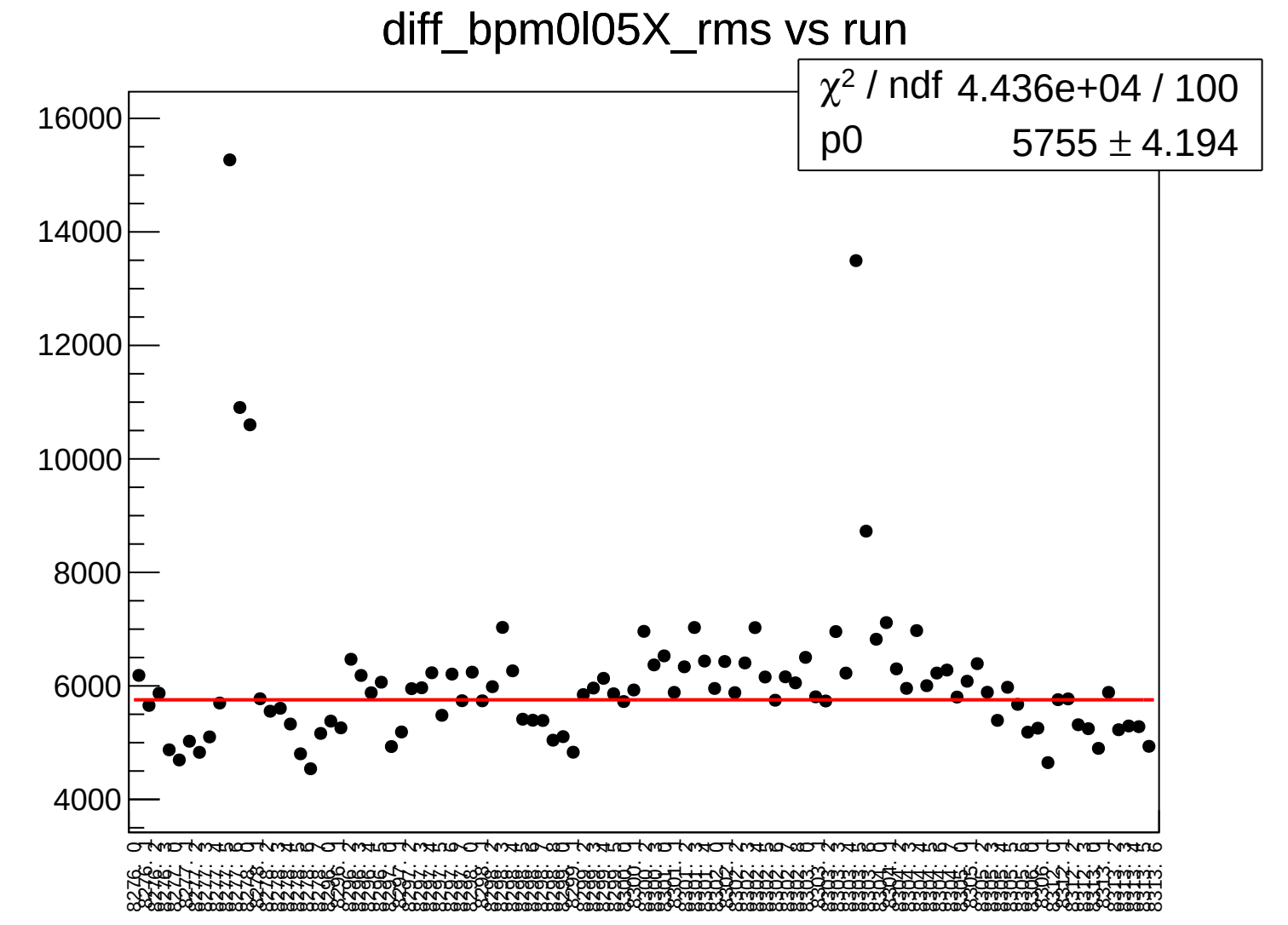

diff_bpm0l04Y_mean vs run
χ² / ndf 149.4 / 100
p0 −16.86 ± 1.122
pull
Entries 101
Mean 13.58
Std Dev 52.76

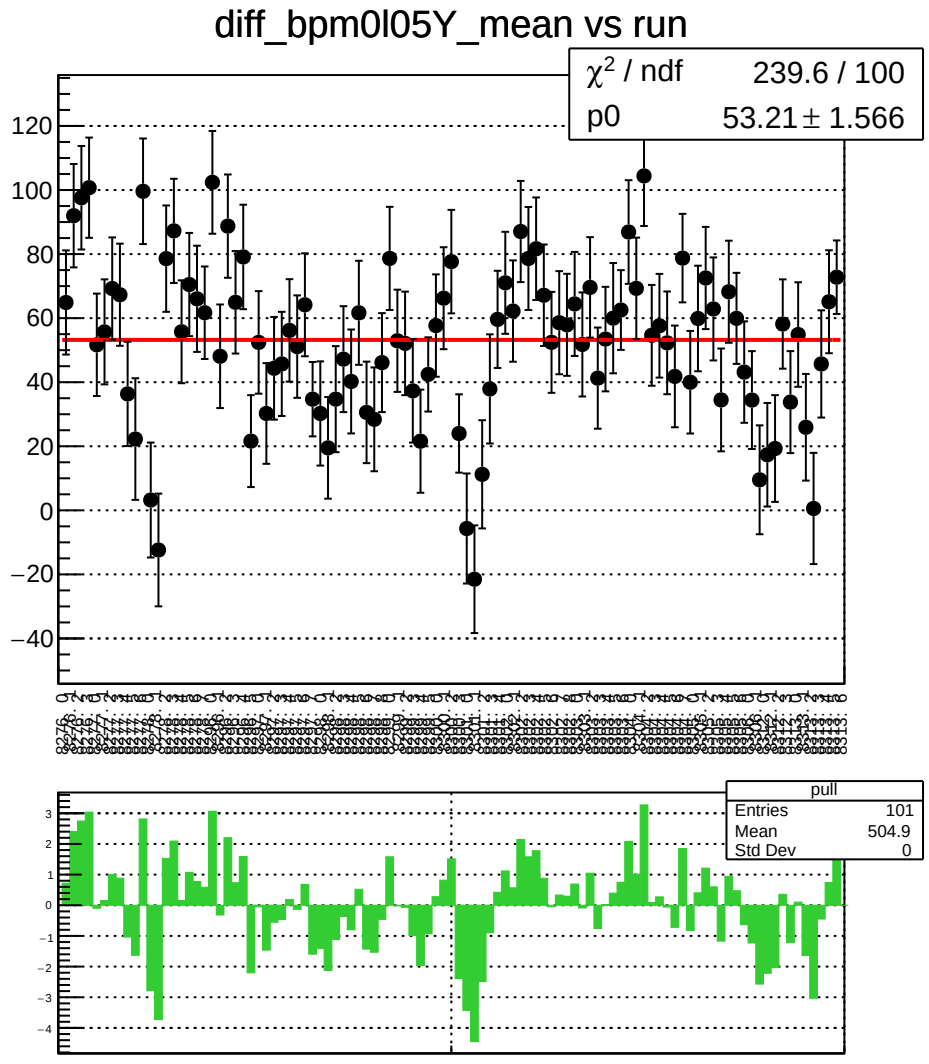

pull1D
Entries 101
Mean 0.009766
Std Dev 1.216

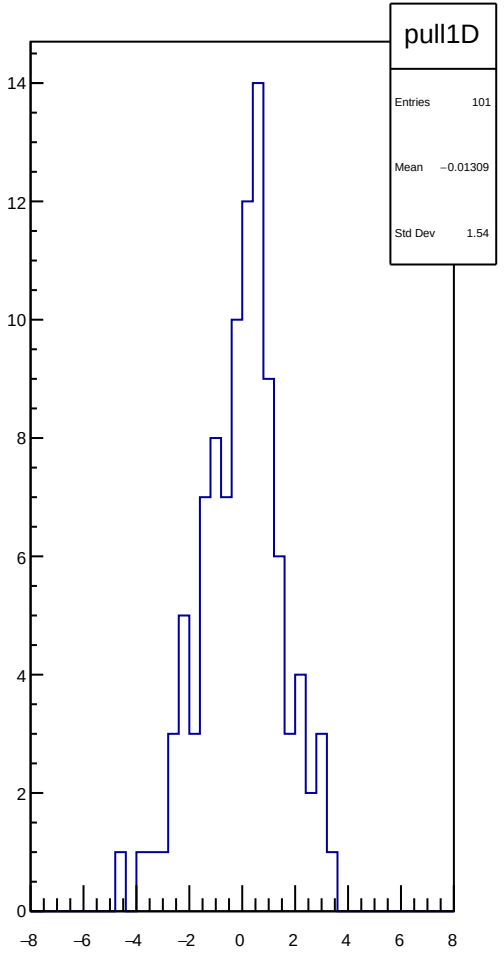

diff_bpm0l04Y_rms vs run
χ² / ndf 722.5 / 100
p0 1101 ± 0.7935
1200
1180
1160
1140
1120
1100
1080
1060
1040

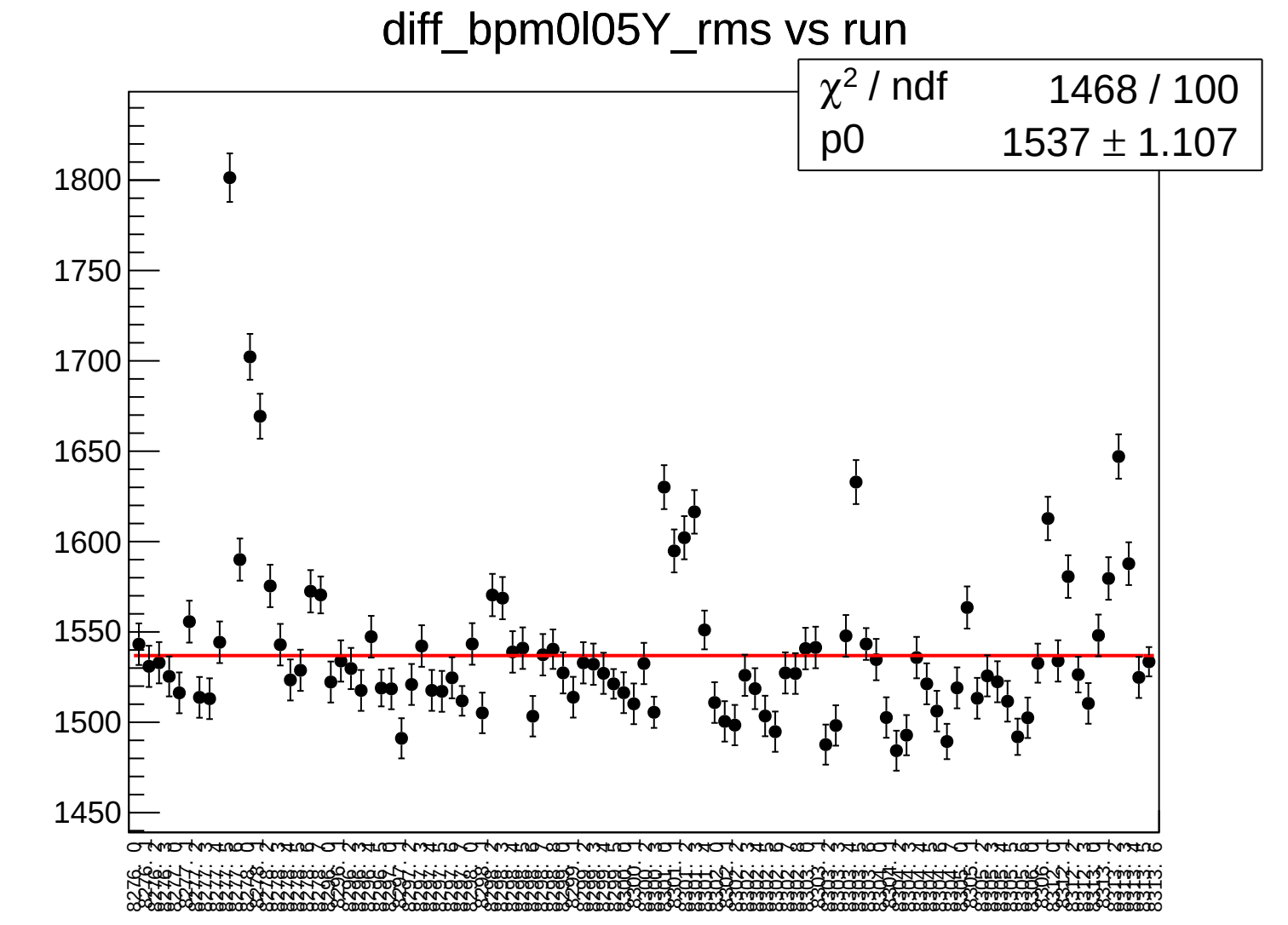

diff_bpm0l05X_mean vs run
χ² / ndf 102.5 / 100
p0 12.46 ± 5.931
pull
Entries 101
Mean −279.7
Std Dev 0

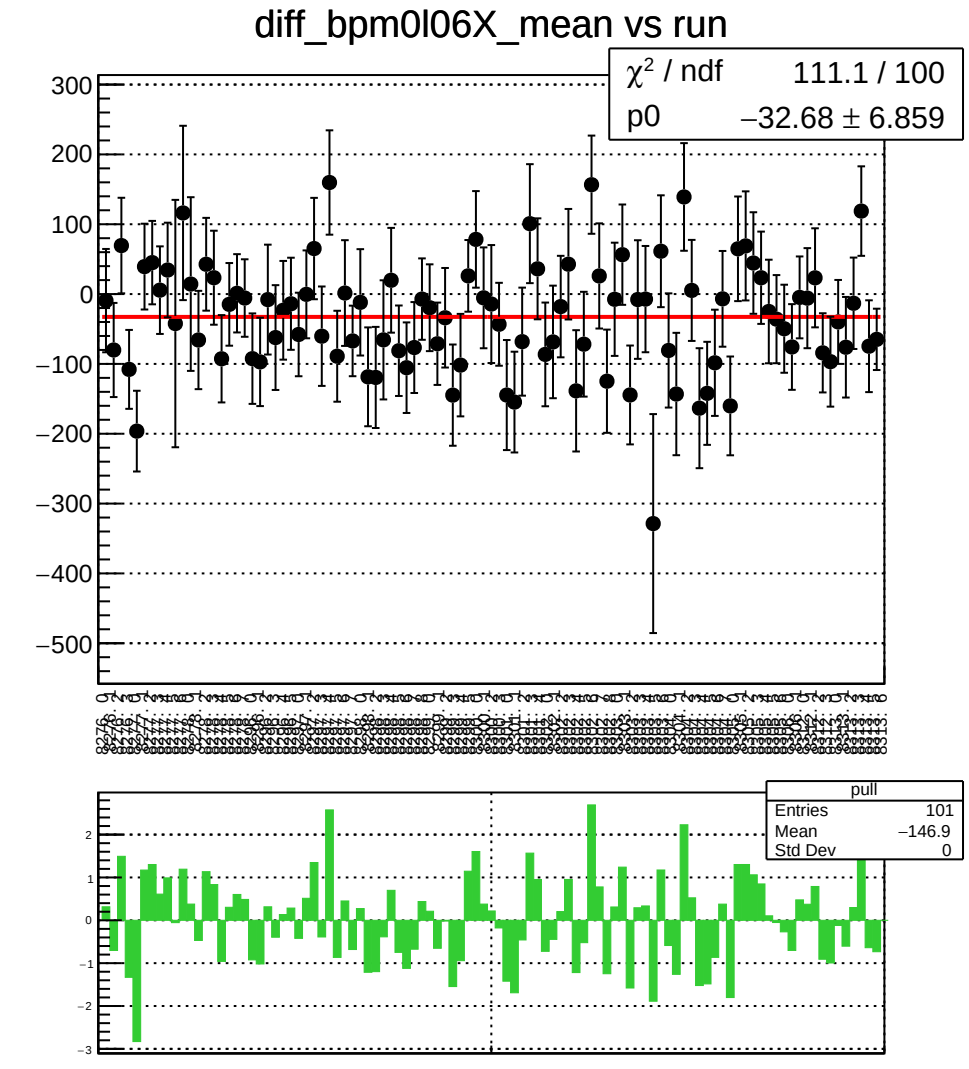

pull1D
Entries 101
Mean 0.002863
Std Dev 1.007

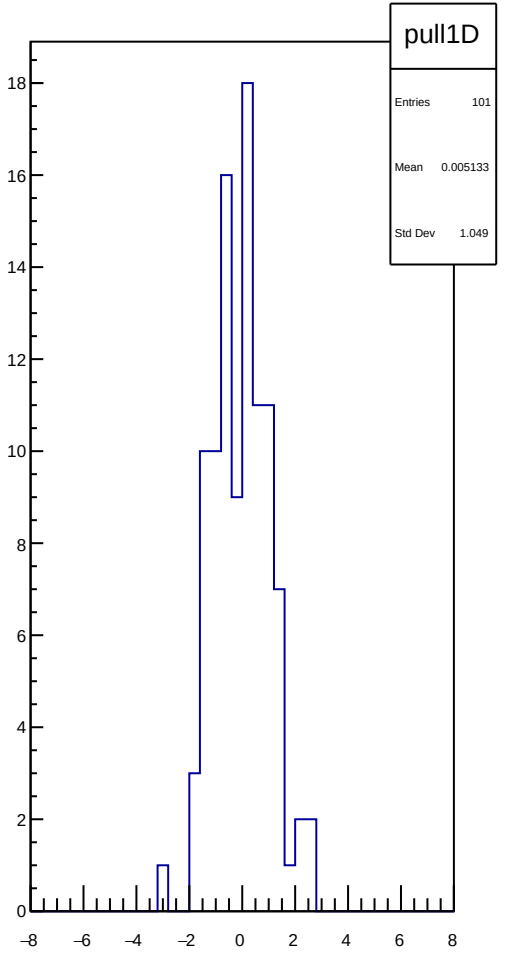

diff_bpm0l05X_rms vs run
χ² / ndf 4.436e+04 / 100
p0 5755 ± 4.194
16000
14000
12000
10000
8000
6000
4000

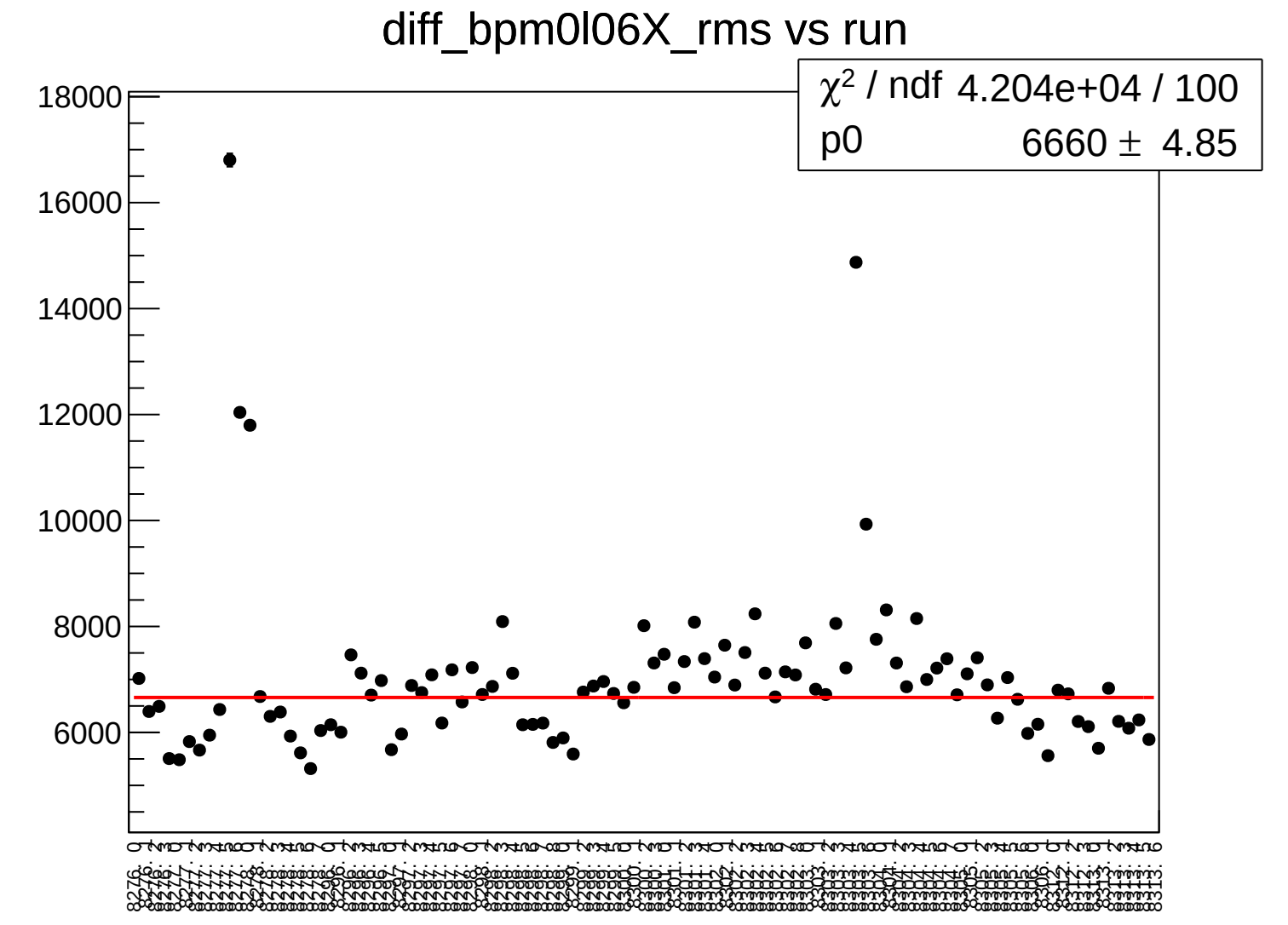

diff_bpm0l05Y_mean vs run
χ² / ndf 239.6 / 100
p0 53.21 ± 1.566
pull
Entries 101
Mean 504.9
Std Dev 0

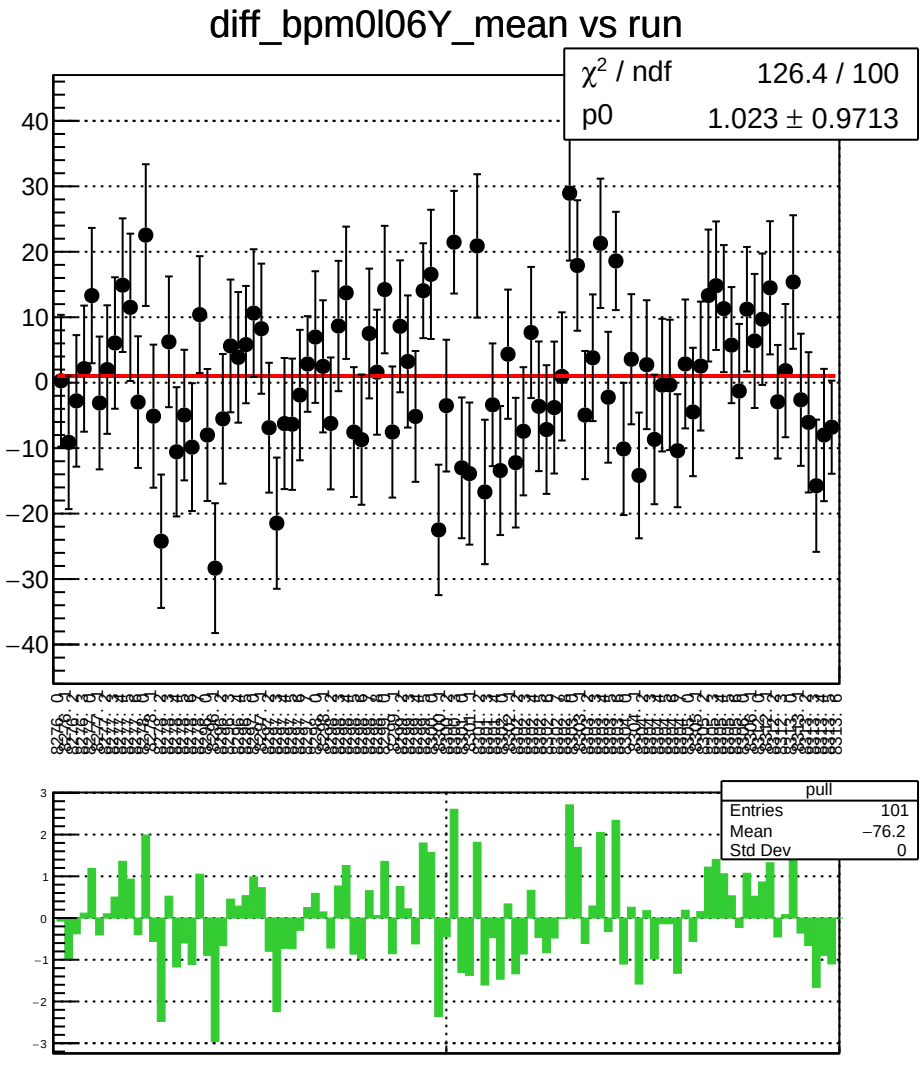

pull1D
Entries 101
Mean −0.01309
Std Dev 1.54

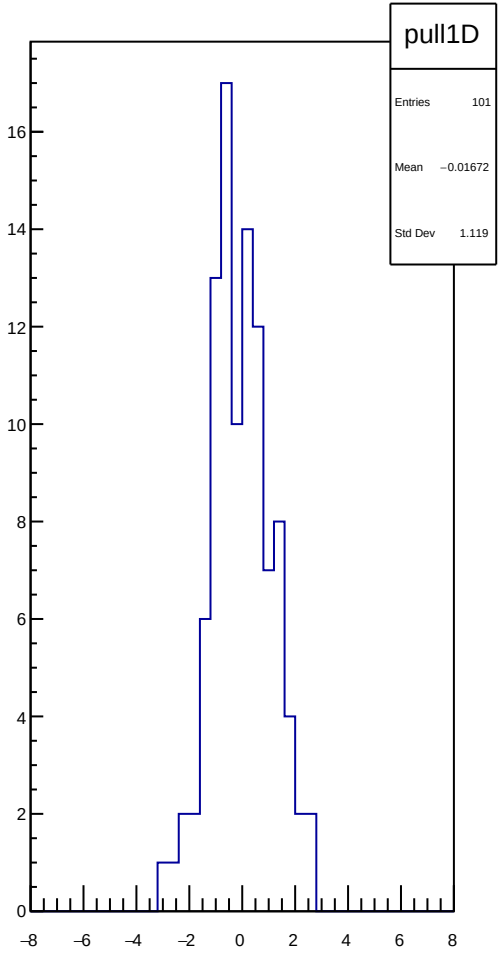

diff_bpm0l05Y_rms vs run
χ² / ndf 1468 / 100
p0 1537 ± 1.107
1800
1750
1700
1650
1600
1550
1500
1450

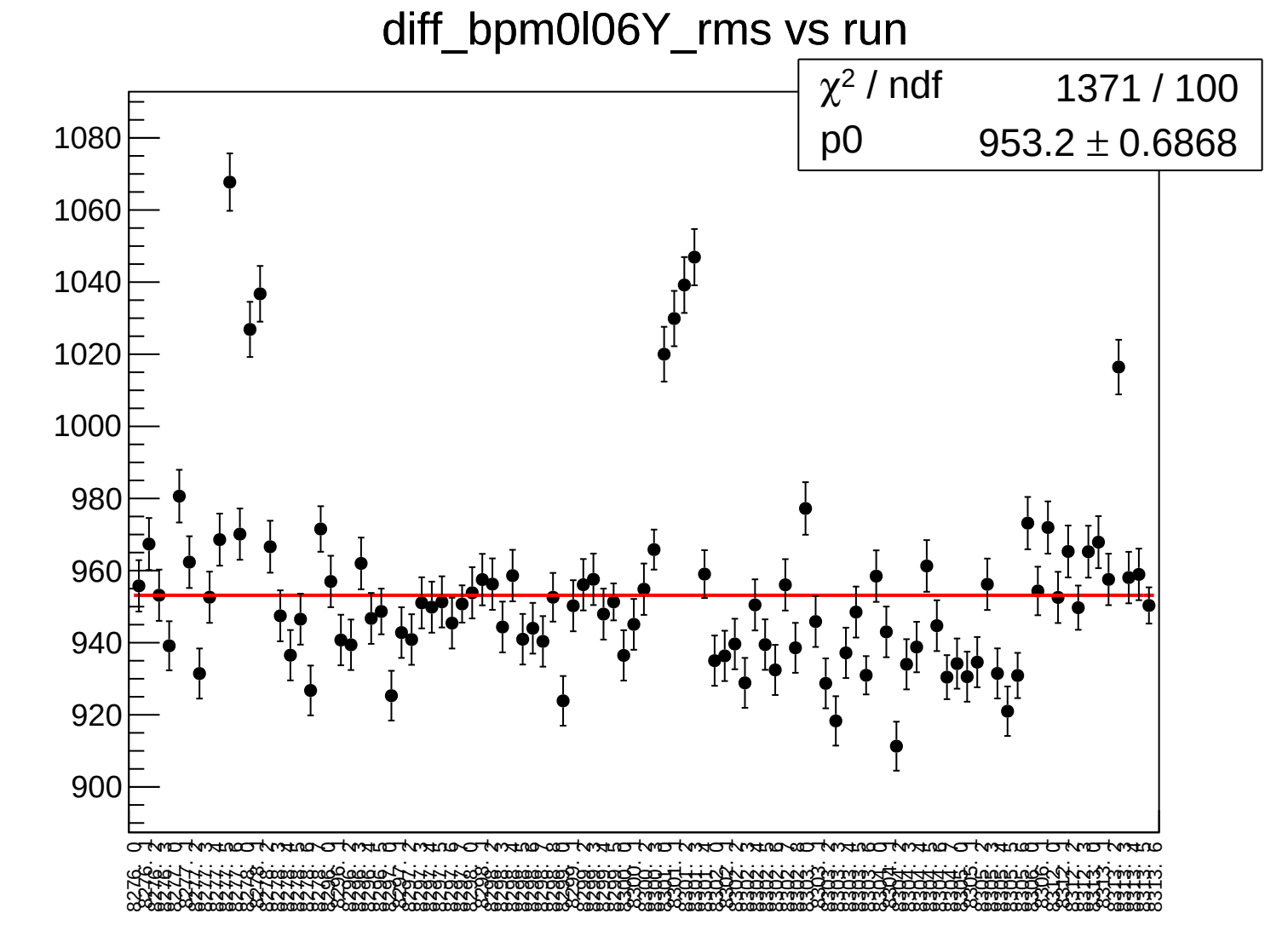

diff_bpm0l06X_mean vs run
χ² / ndf 111.1 / 100
p0 −32.68 ± 6.859
pull
Entries 101
Mean −146.9
Std Dev 0

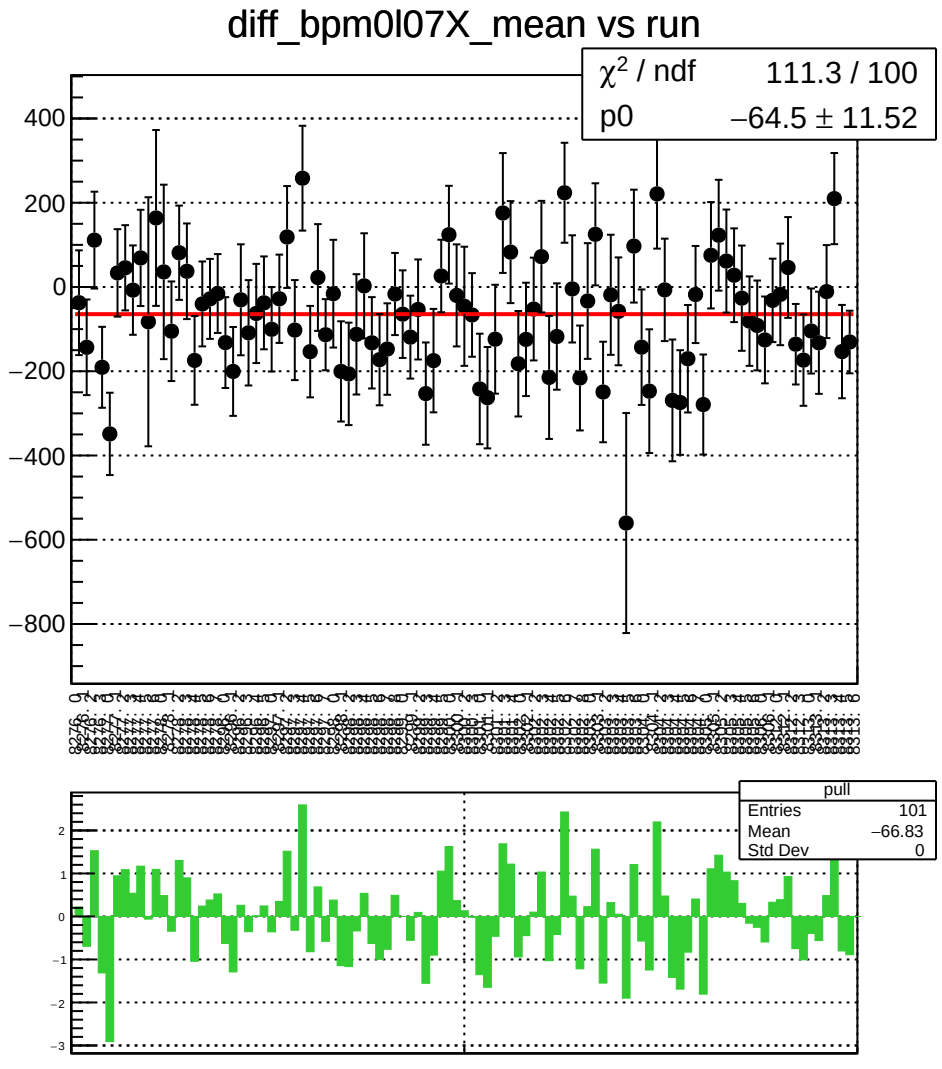

pull1D
Entries 101
Mean 0.005133
Std Dev 1.049

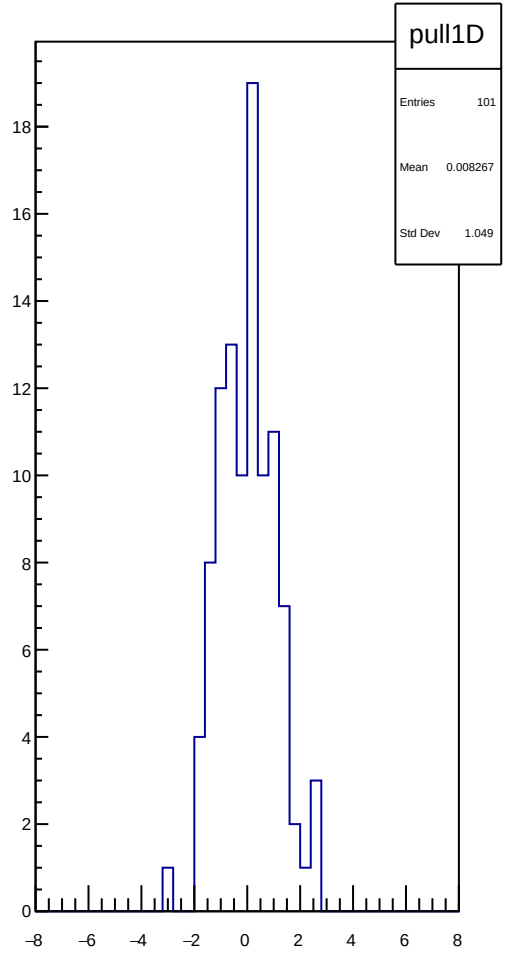

diff_bpm0l06X_rms vs run
χ² / ndf 4.204e+04 / 100
p0 6660 ± 4.85
18000
16000
14000
12000
10000
8000
6000

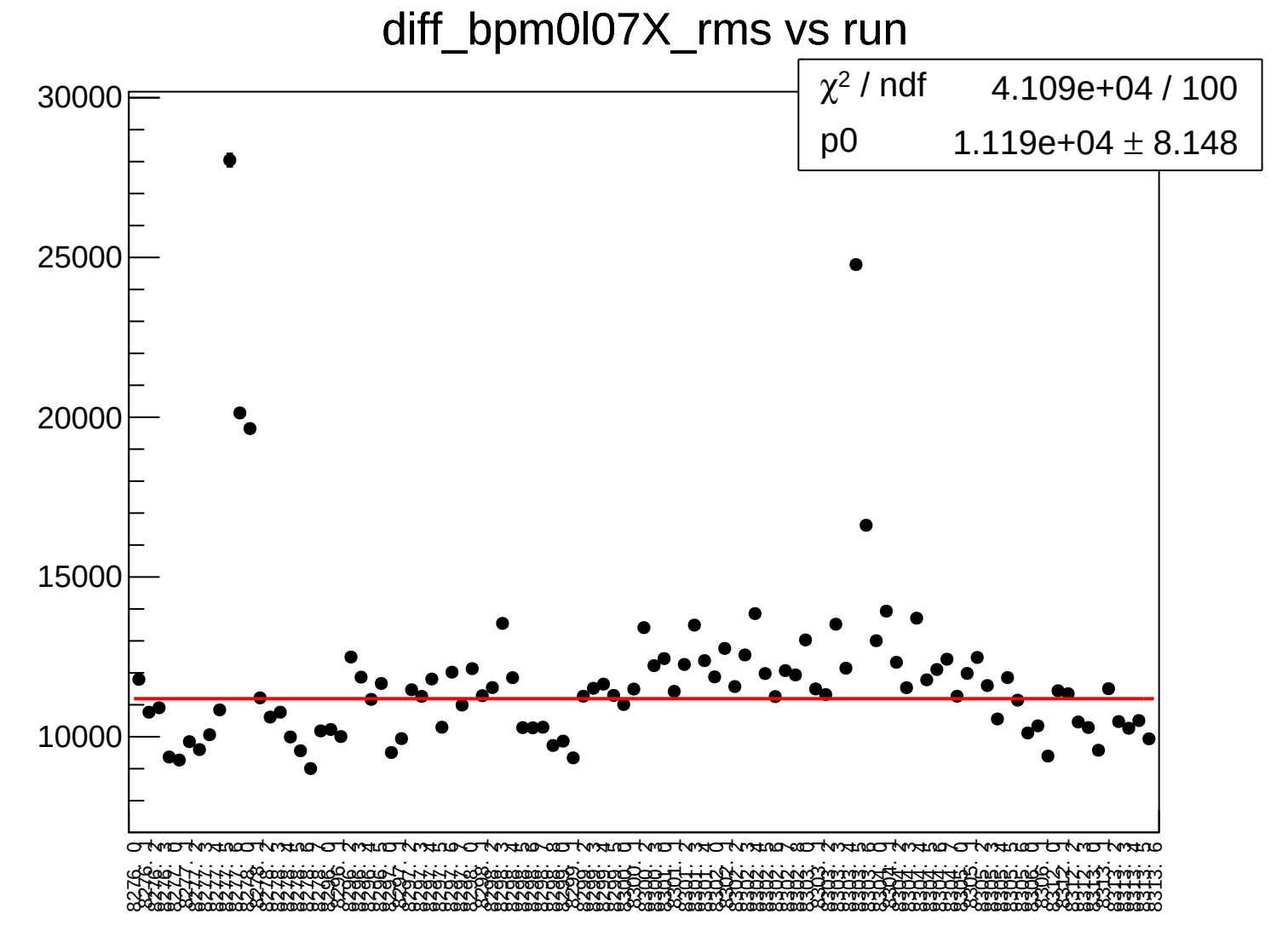

diff_bpm0l06Y_mean vs run
χ² / ndf 126.4 / 100
p0 1.023 ± 0.9713
pull
Entries 101
Mean −76.2
Std Dev 0

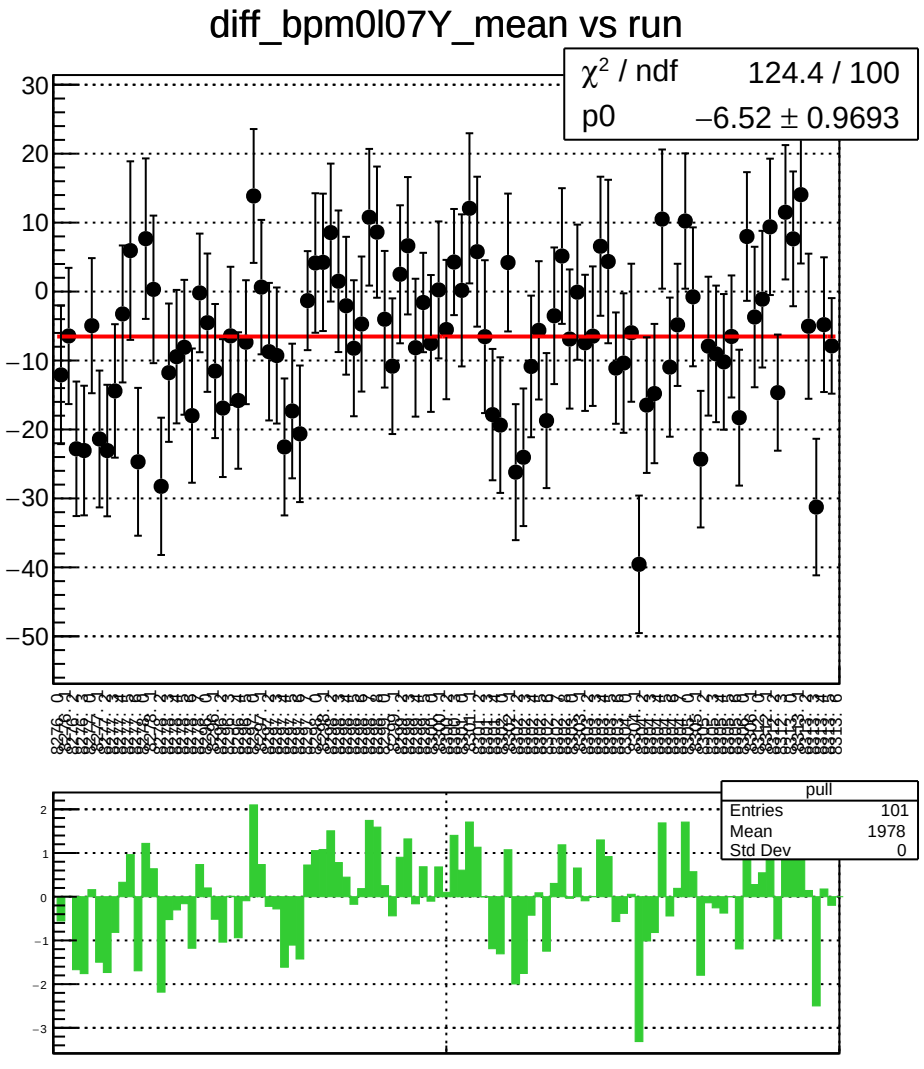

pull1D
Entries 101
Mean −0.01672
Std Dev 1.119

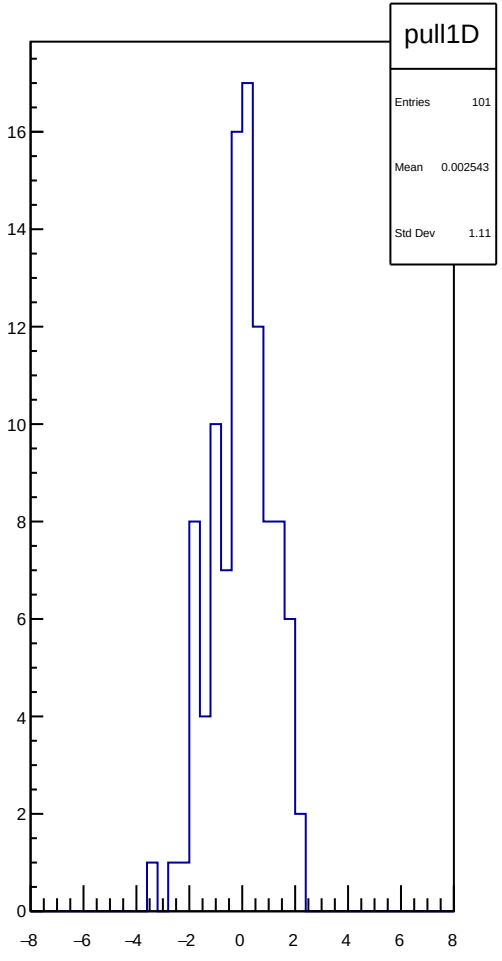

diff_bpm0l06Y_rms vs run
χ² / ndf 1371 / 100
p0 953.2 ± 0.6868
1080
1060
1040
1020
1000
980
960
940
920
900

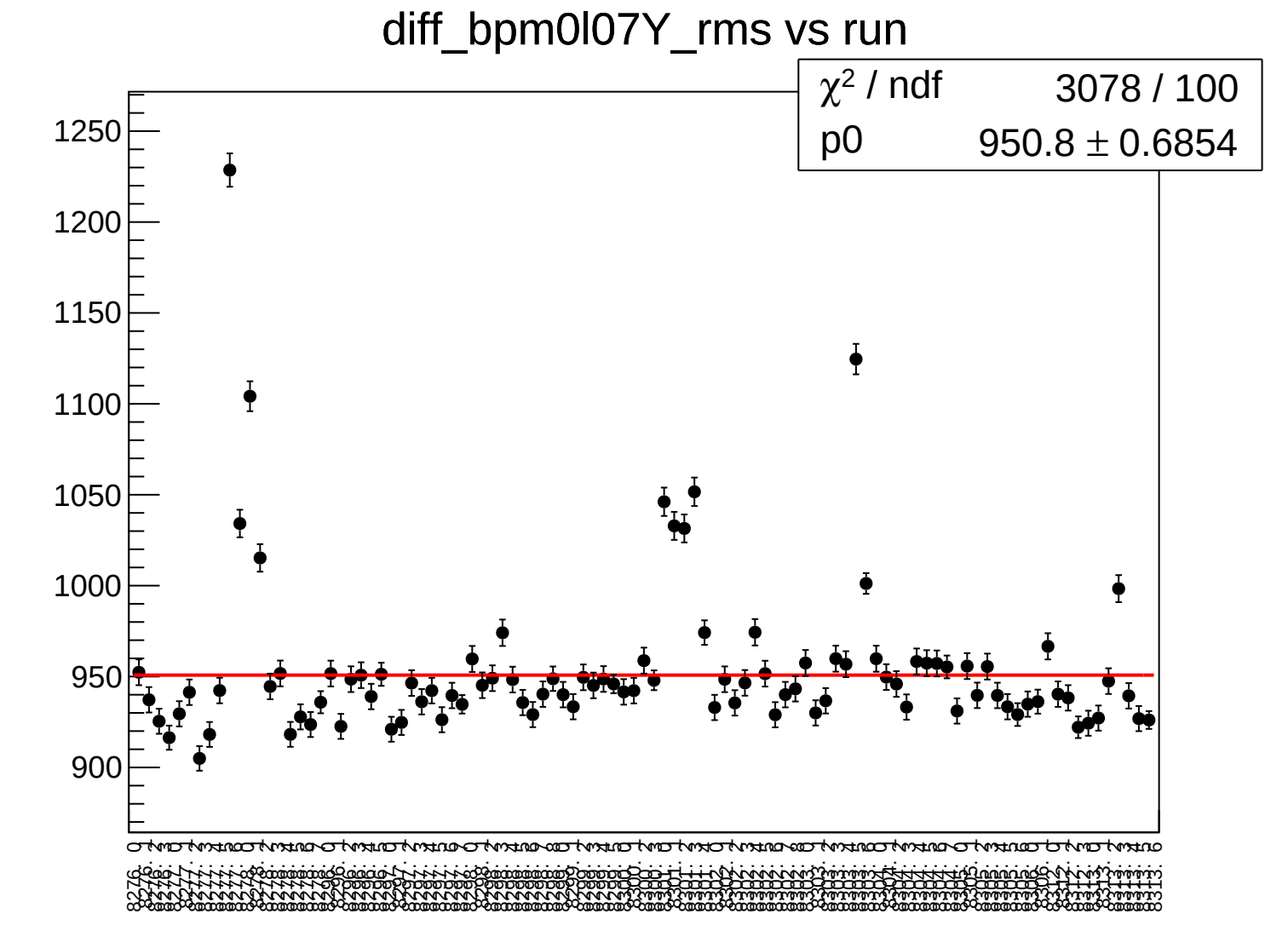

diff_bpm0l07X_mean vs run
χ² / ndf 111.3 / 100
p0 −64.5 ± 11.52
400
200
0
−200
−400
−600
−800
pull
Entries 101
Mean −66.83
Std Dev 0
2
1
0
−1
−2
−3

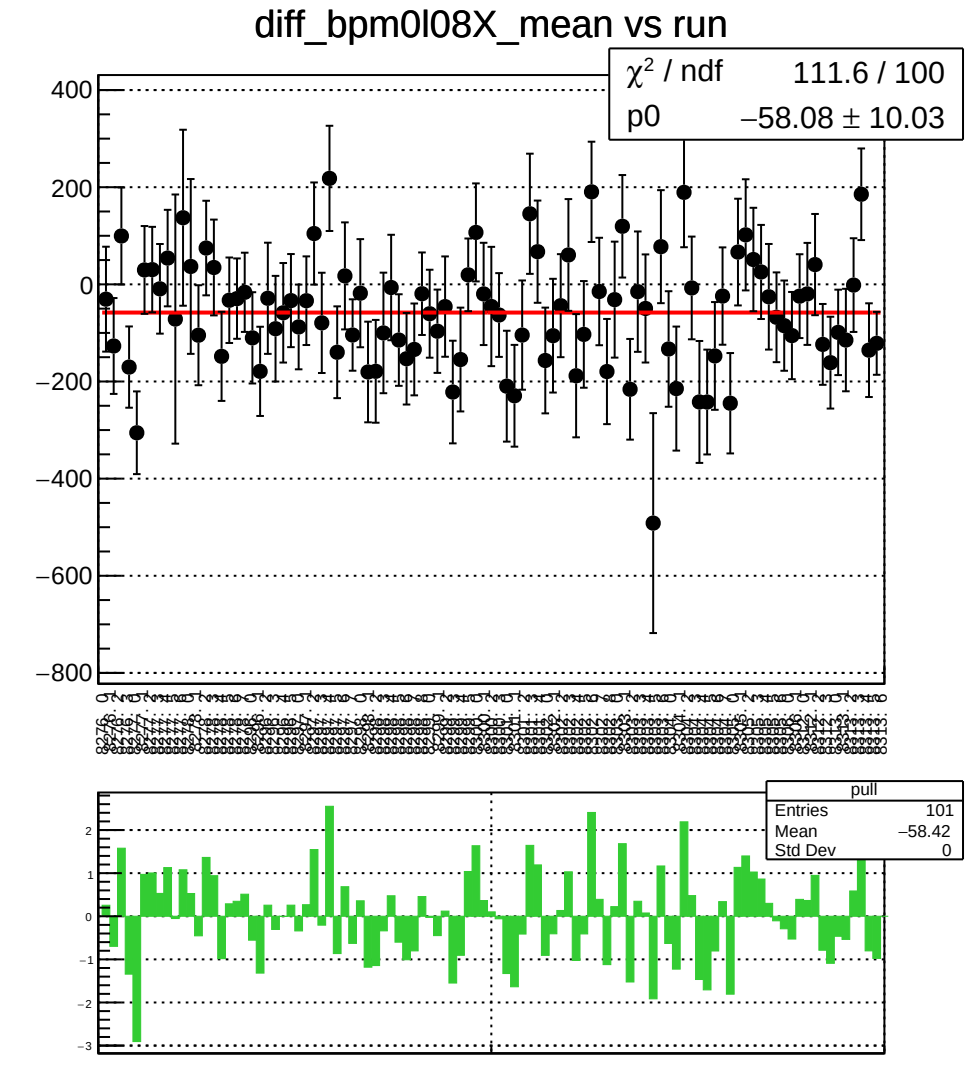

pull1D
Entries 101
Mean 0.008267
Std Dev 1.049
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

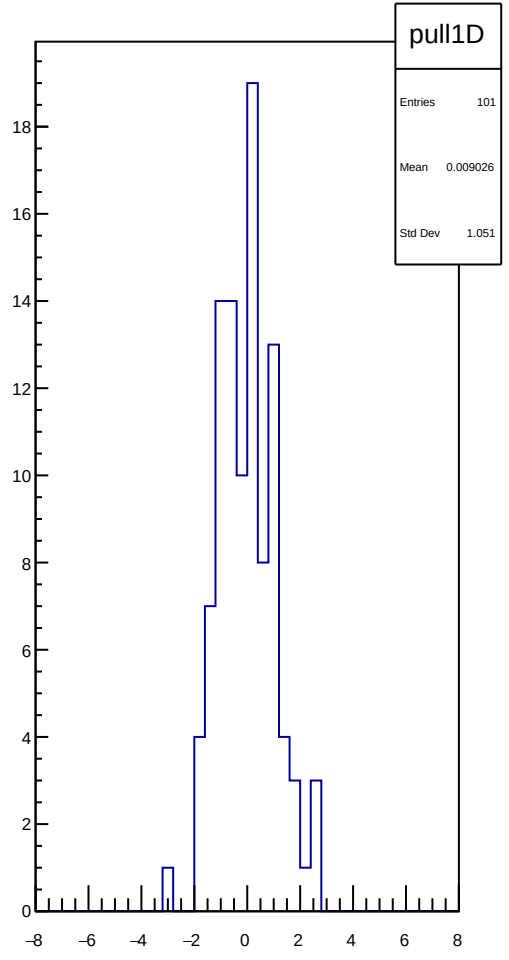

diff_bpm0l07X_rms vs run
χ² / ndf 4.109e+04 / 100
p0 1.119e+04 ± 8.148
30000
25000
20000
15000
10000

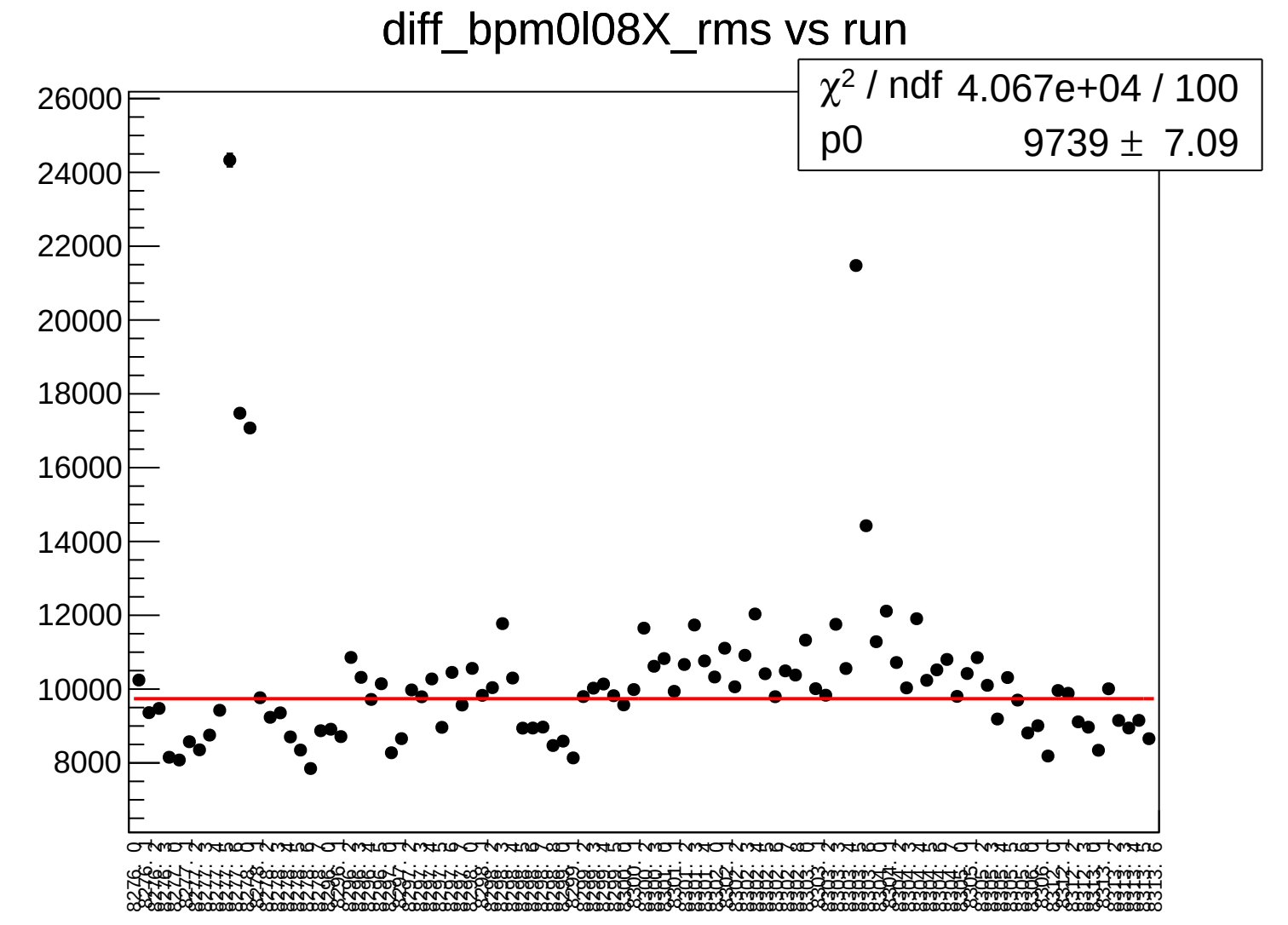

diff_bpm0l07Y_mean vs run
χ² / ndf 124.4 / 100
p0 −6.52 ± 0.9693
pull
Entries 101
Mean 1978
Std Dev 0

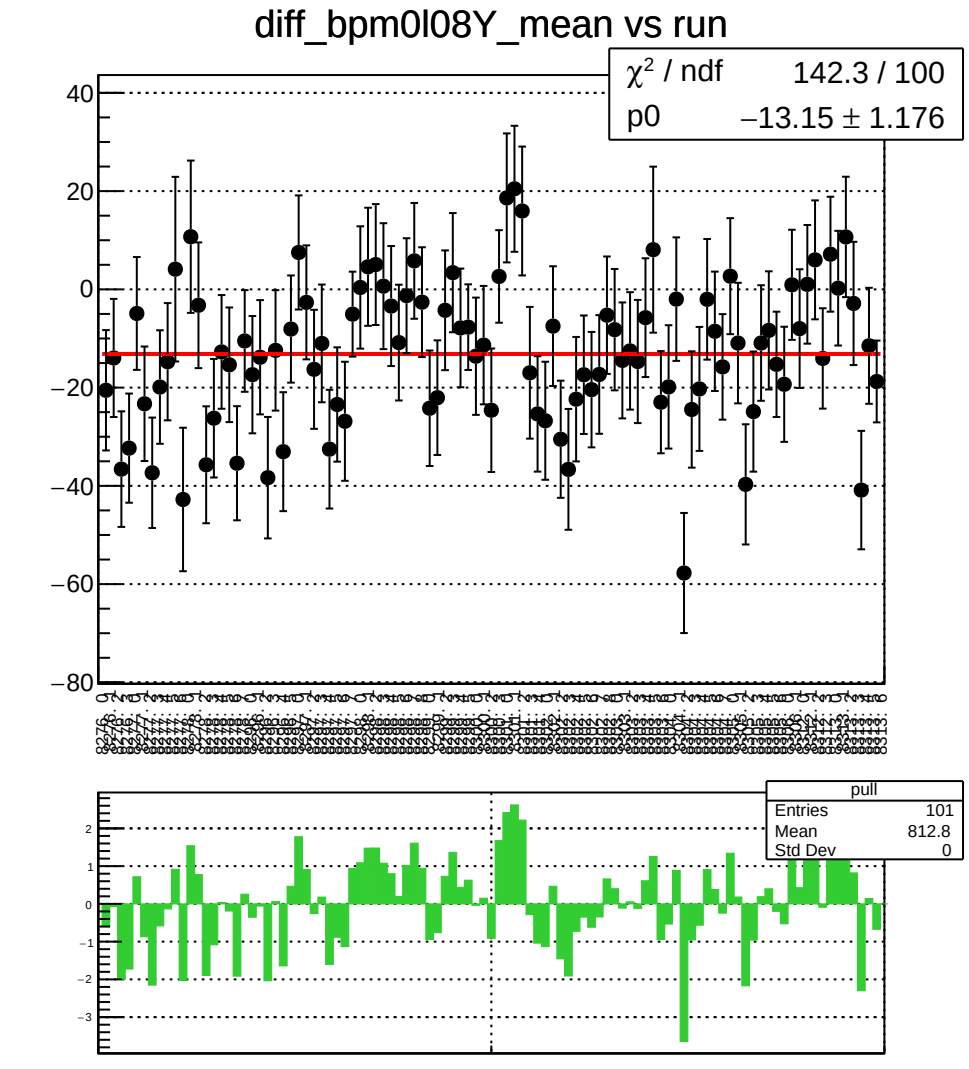

pull1D
Entries 101
Mean 0.002543
Std Dev 1.11

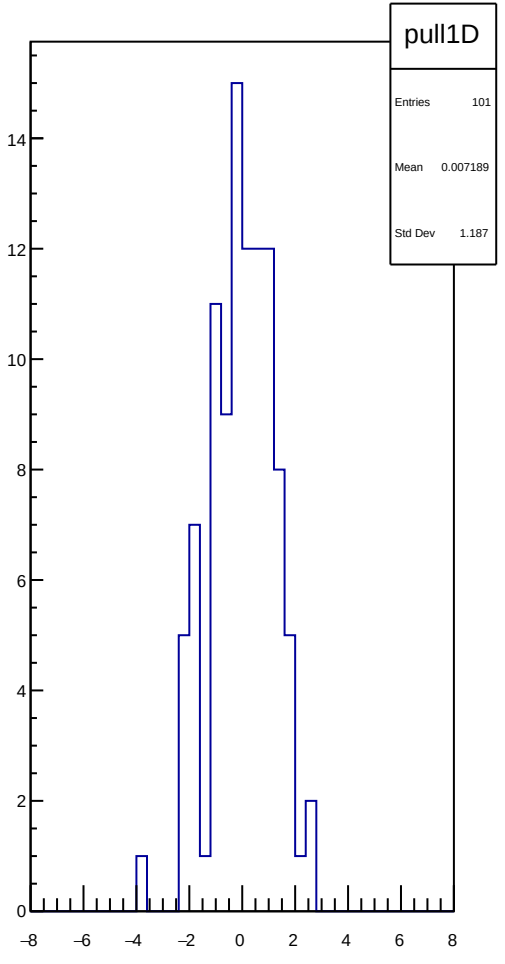

diff_bpm0l07Y_rms vs run
χ² / ndf 3078 / 100
p0 950.8 ± 0.6854
1250
1200
1150
1100
1050
1000
950
900

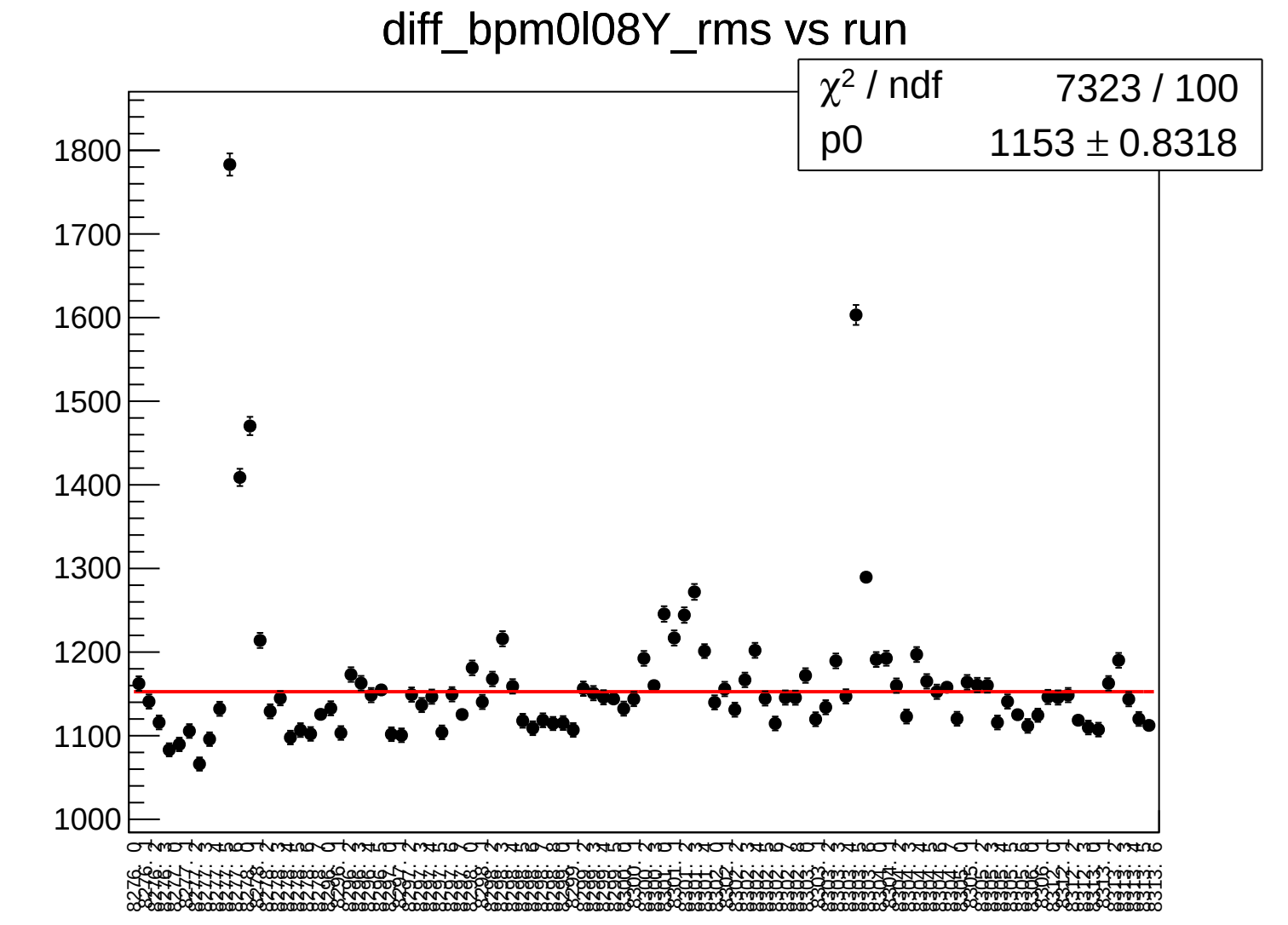

diff_bpm0l08X_mean vs run
χ² / ndf 111.6 / 100
p0 −58.08 ± 10.03
400
200
0
−200
−400
−600
−800
pull
Entries 101
Mean −58.42
Std Dev 0
2
1
0
−1
−2
−3

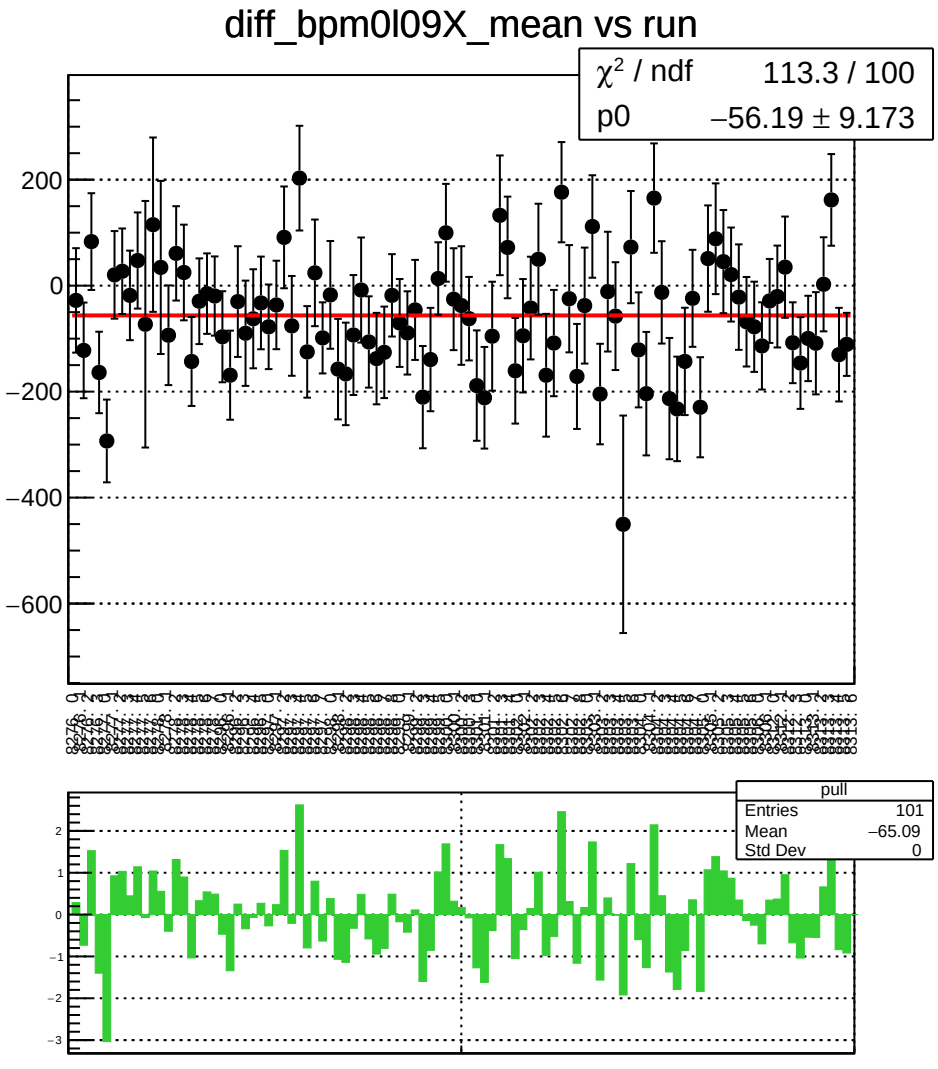

pull1D
Entries 101
Mean 0.009026
Std Dev 1.051
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

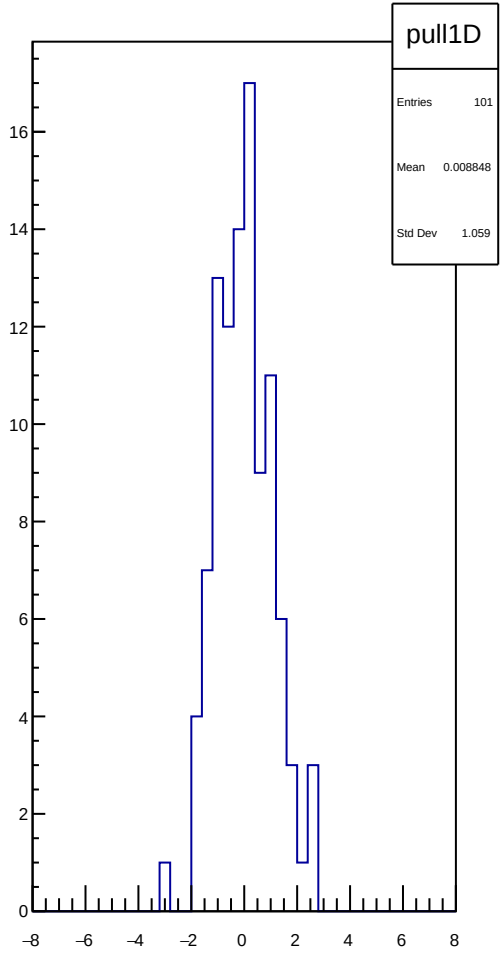

diff_bpm0l08X_rms vs run
χ² / ndf 4.067e+04 / 100
p0 9739 ± 7.09
26000
24000
22000
20000
18000
16000
14000
12000
10000
8000

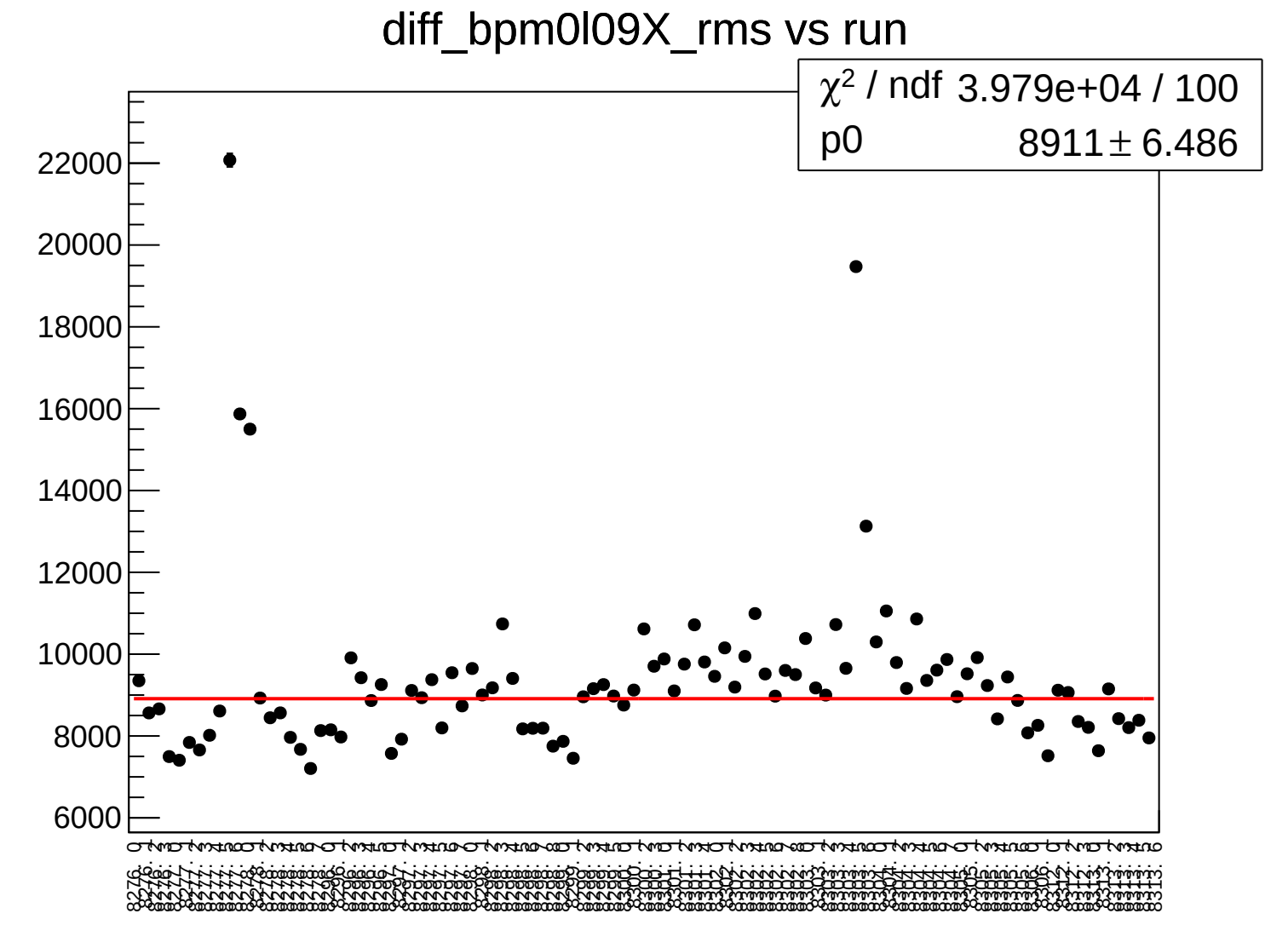

diff_bpm0l08Y_mean vs run
χ² / ndf 142.3 / 100
p0 −13.15 ± 1.176
pull
Entries 101
Mean 812.8
Std Dev 0

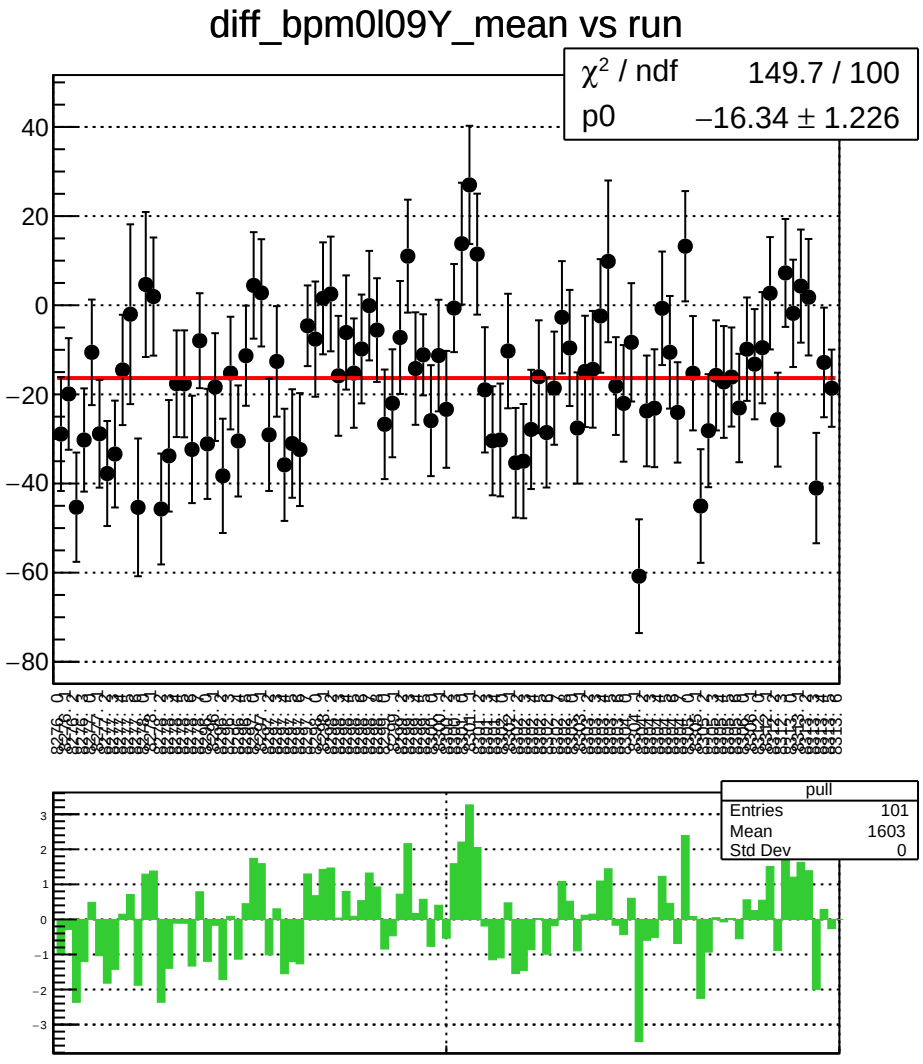

pull1D
Entries 101
Mean 0.007189
Std Dev 1.187

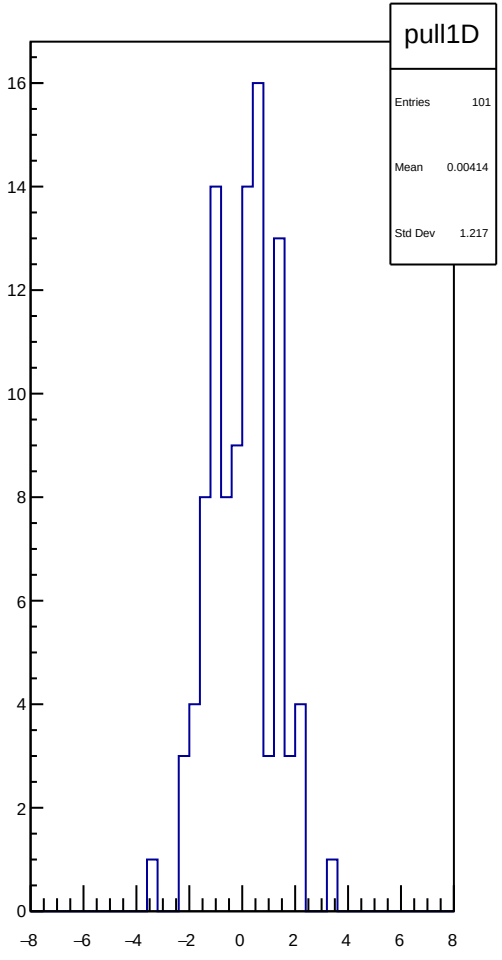

diff_bpm0l08Y_rms vs run
χ² / ndf 7323 / 100
p0 1153 ± 0.8318
1800
1700
1600
1500
1400
1300
1200
1100
1000

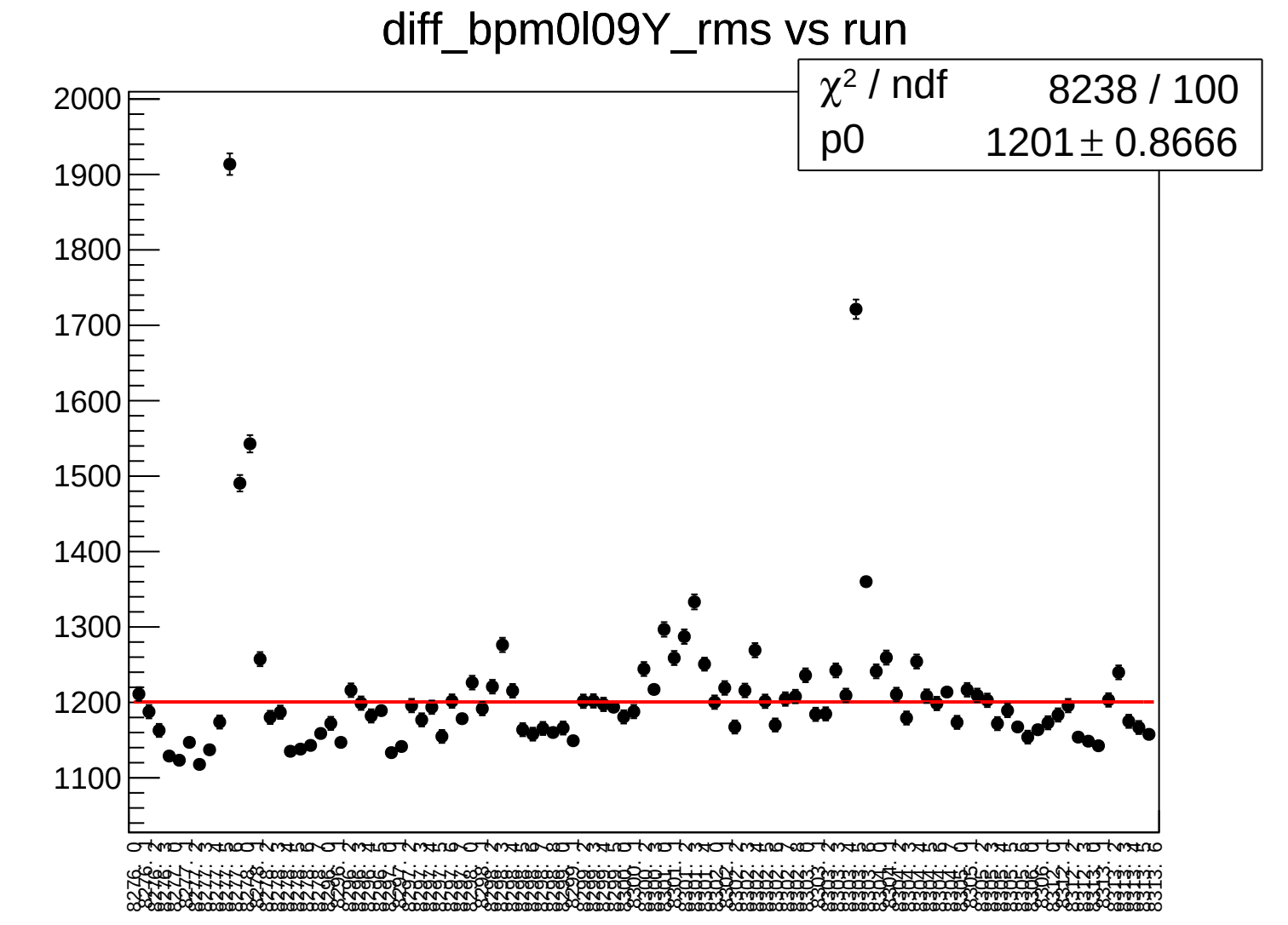

diff_bpm0l09X_mean vs run
χ² / ndf 113.3 / 100
p0 −56.19 ± 9.173
200
0
−200
−400
−600
pull
Entries 101
Mean −65.09
Std Dev 0
2
1
0
−1
−2
−3

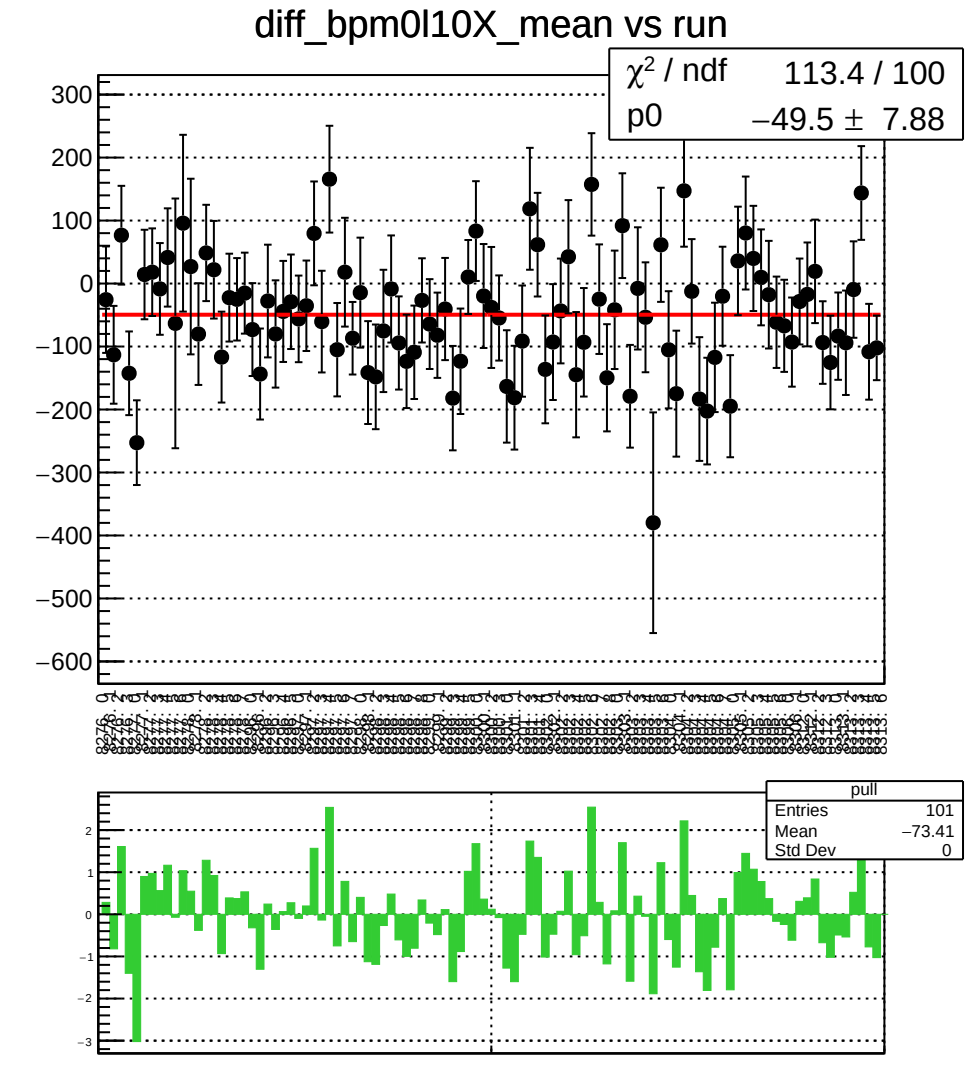

pull1D
Entries 101
Mean 0.008848
Std Dev 1.059
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

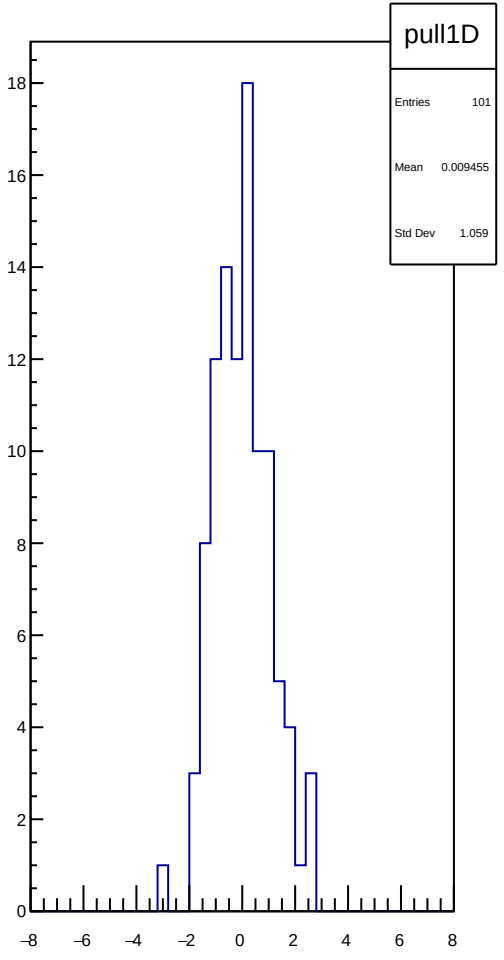

diff_bpm0l09X_rms vs run
χ² / ndf 3.979e+04 / 100
p0 8911 ± 6.486
22000
20000
18000
16000
14000
12000
10000
8000
6000

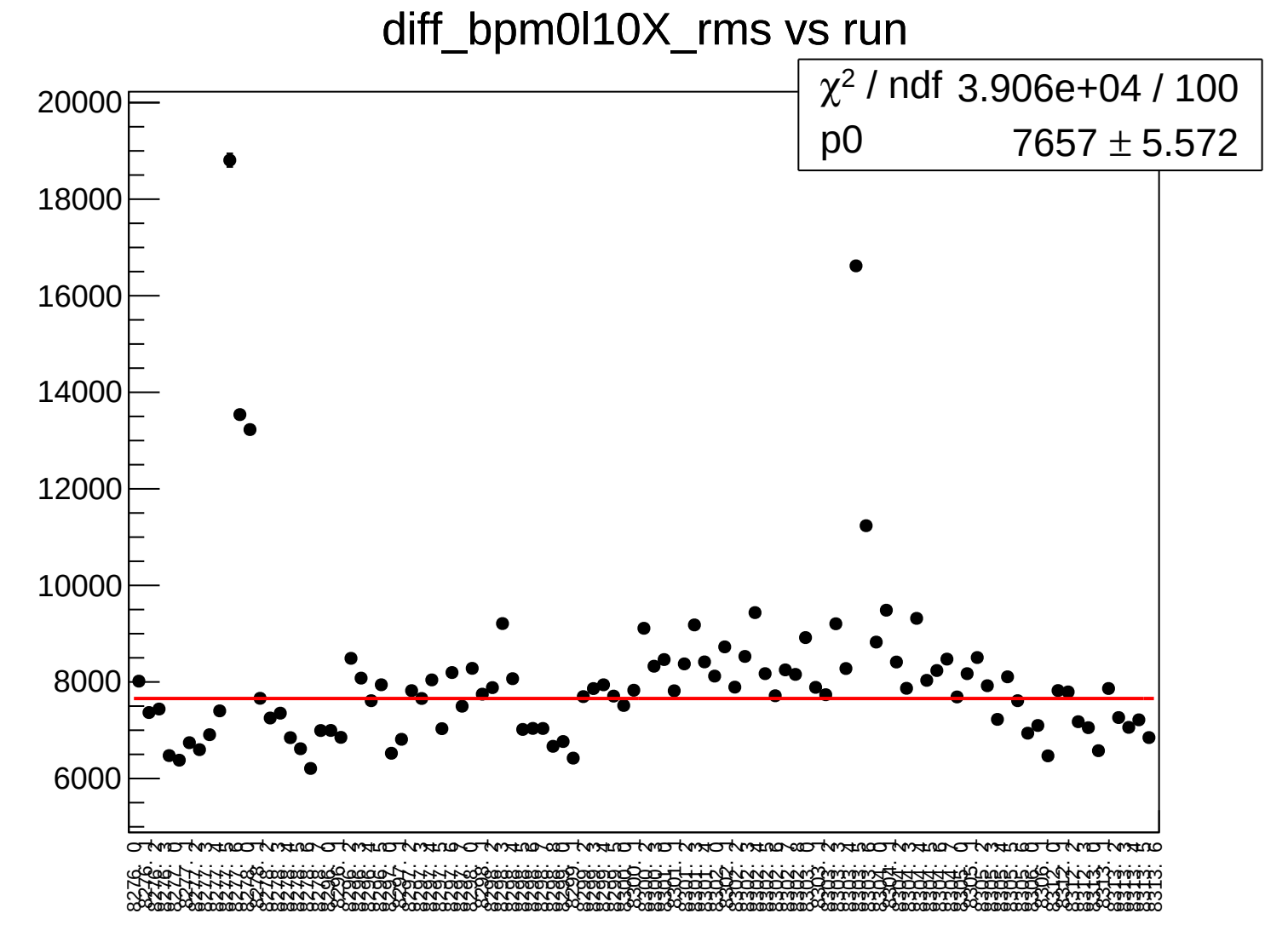

diff_bpm0l09Y_mean vs run
χ² / ndf 149.7 / 100
p0 −16.34 ± 1.226
pull
Entries 101
Mean 1603
Std Dev 0

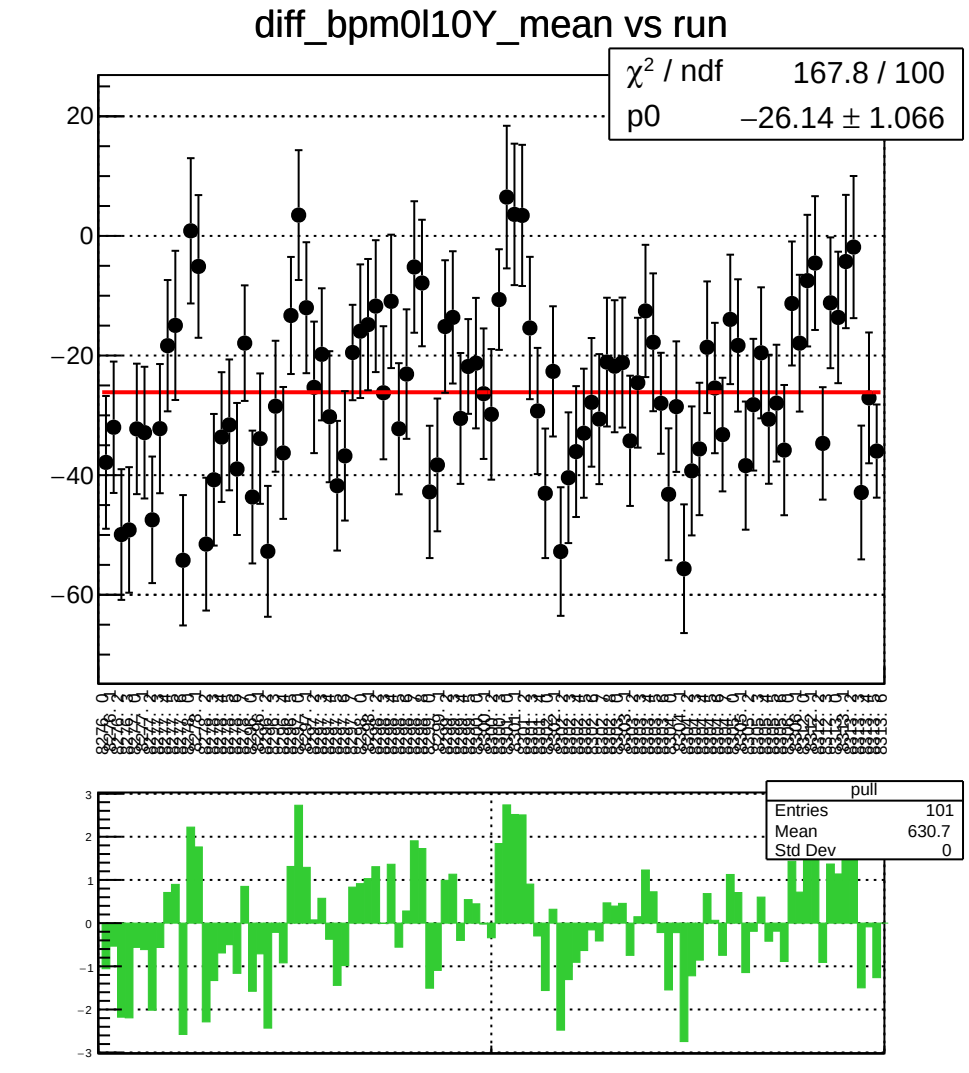

pull1D
Entries 101
Mean 0.00414
Std Dev 1.217

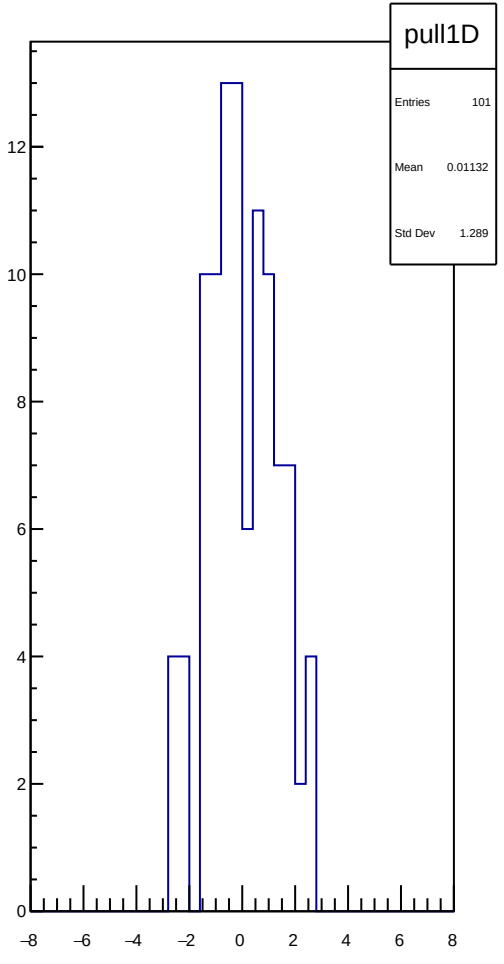

diff_bpm0l09Y_rms vs run
χ² / ndf 8238 / 100
p0 1201 ± 0.8666
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100

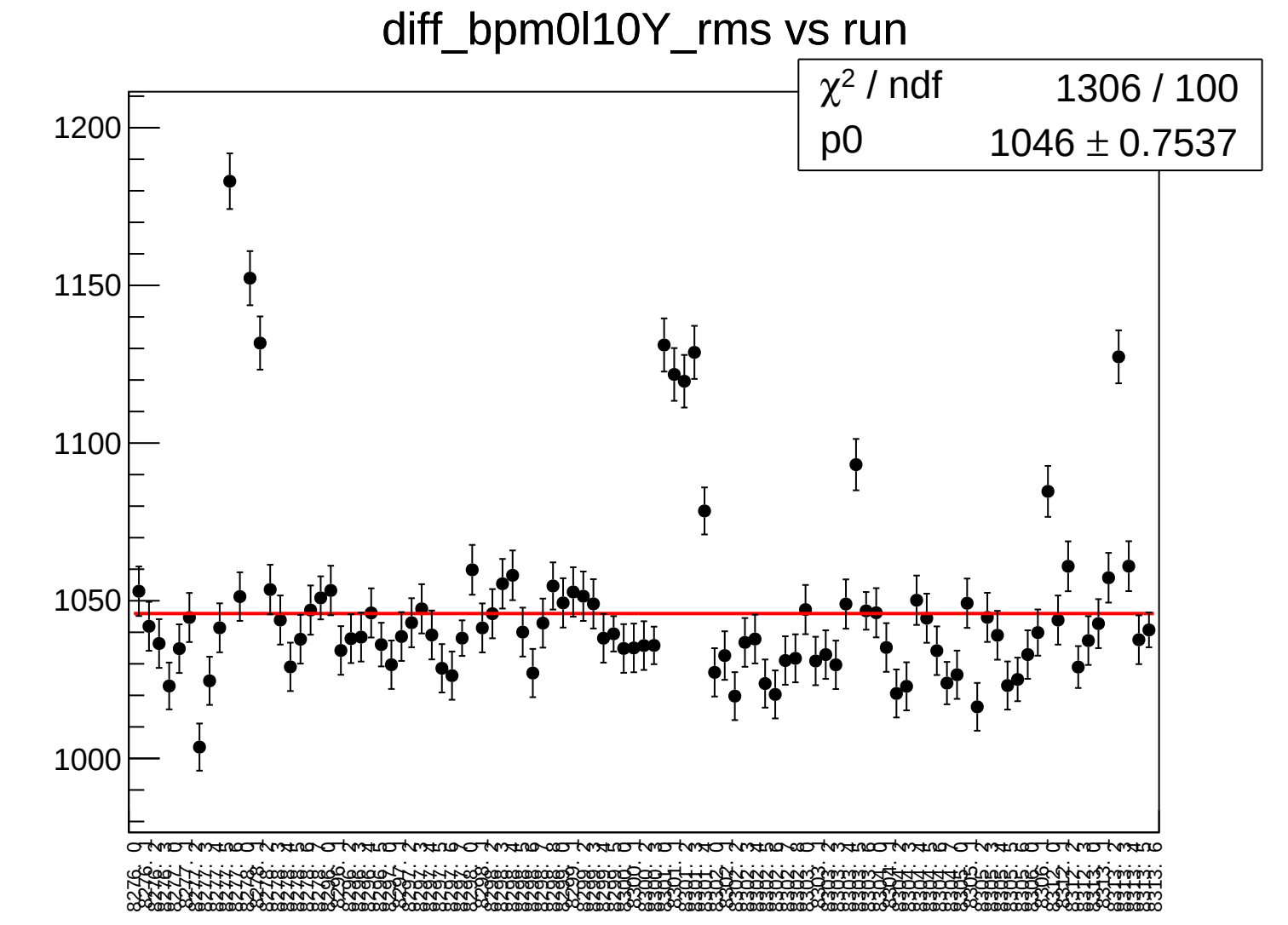

diff_bpm0l10X_mean vs run
χ² / ndf 113.4 / 100
p0 −49.5 ± 7.88
pull
Entries 101
Mean −73.41
Std Dev 0

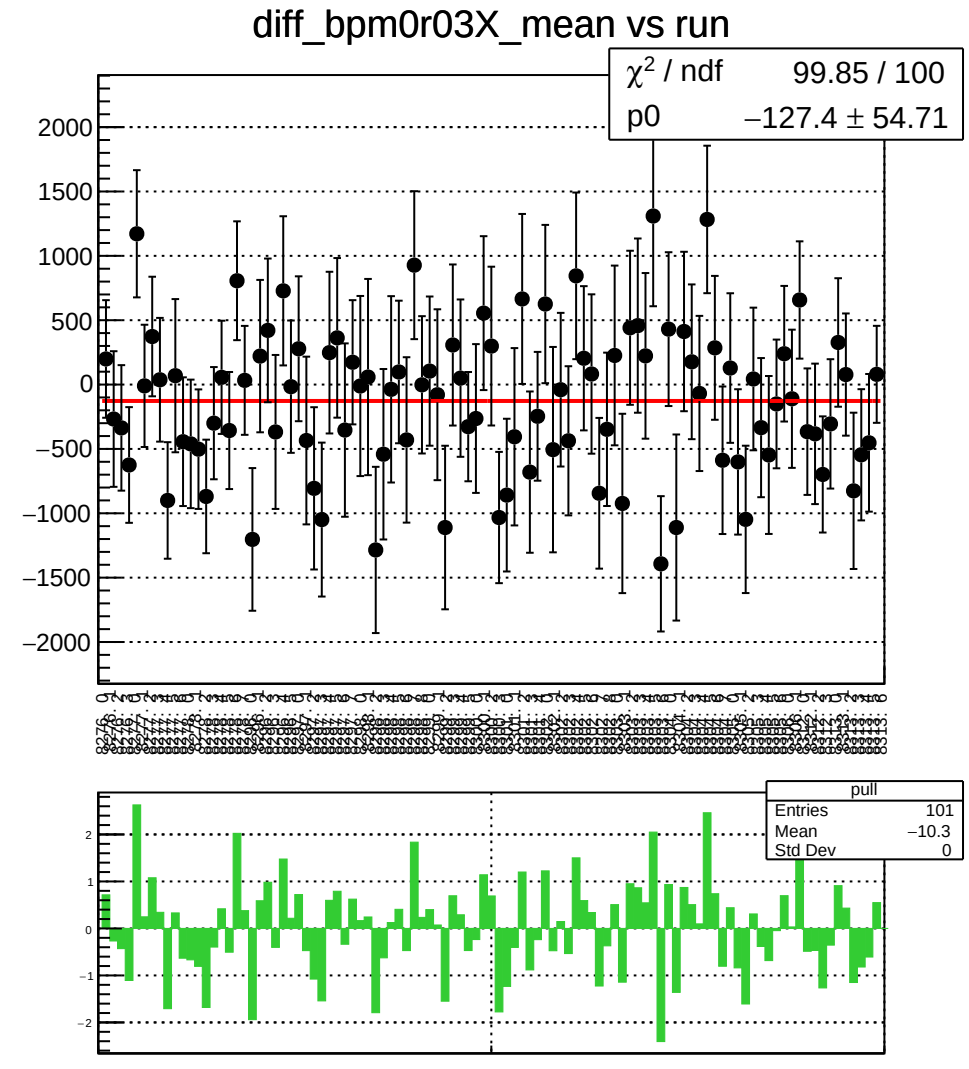

pull1D
Entries 101
Mean 0.009455
Std Dev 1.059

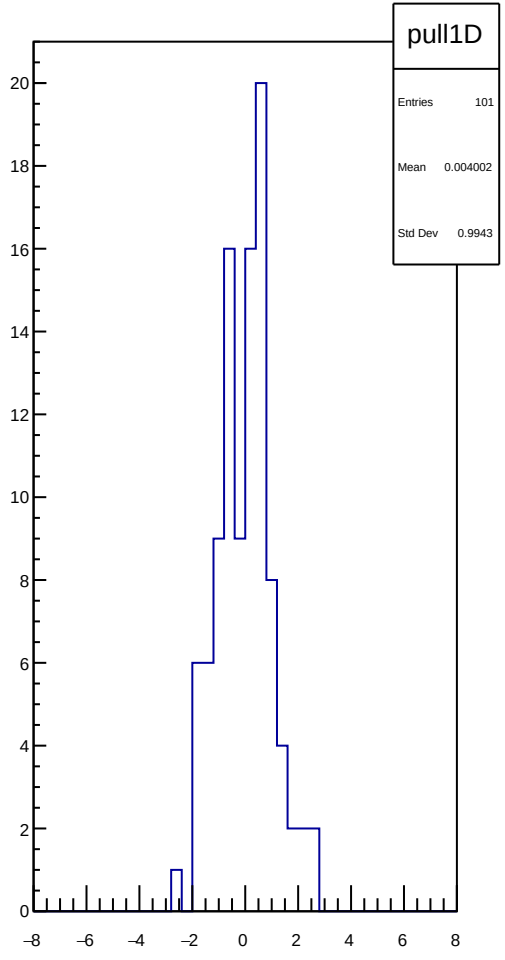

diff_bpm0l10X_rms vs run
χ² / ndf 3.906e+04 / 100
p0 7657 ± 5.572
20000
18000
16000
14000
12000
10000
8000
6000

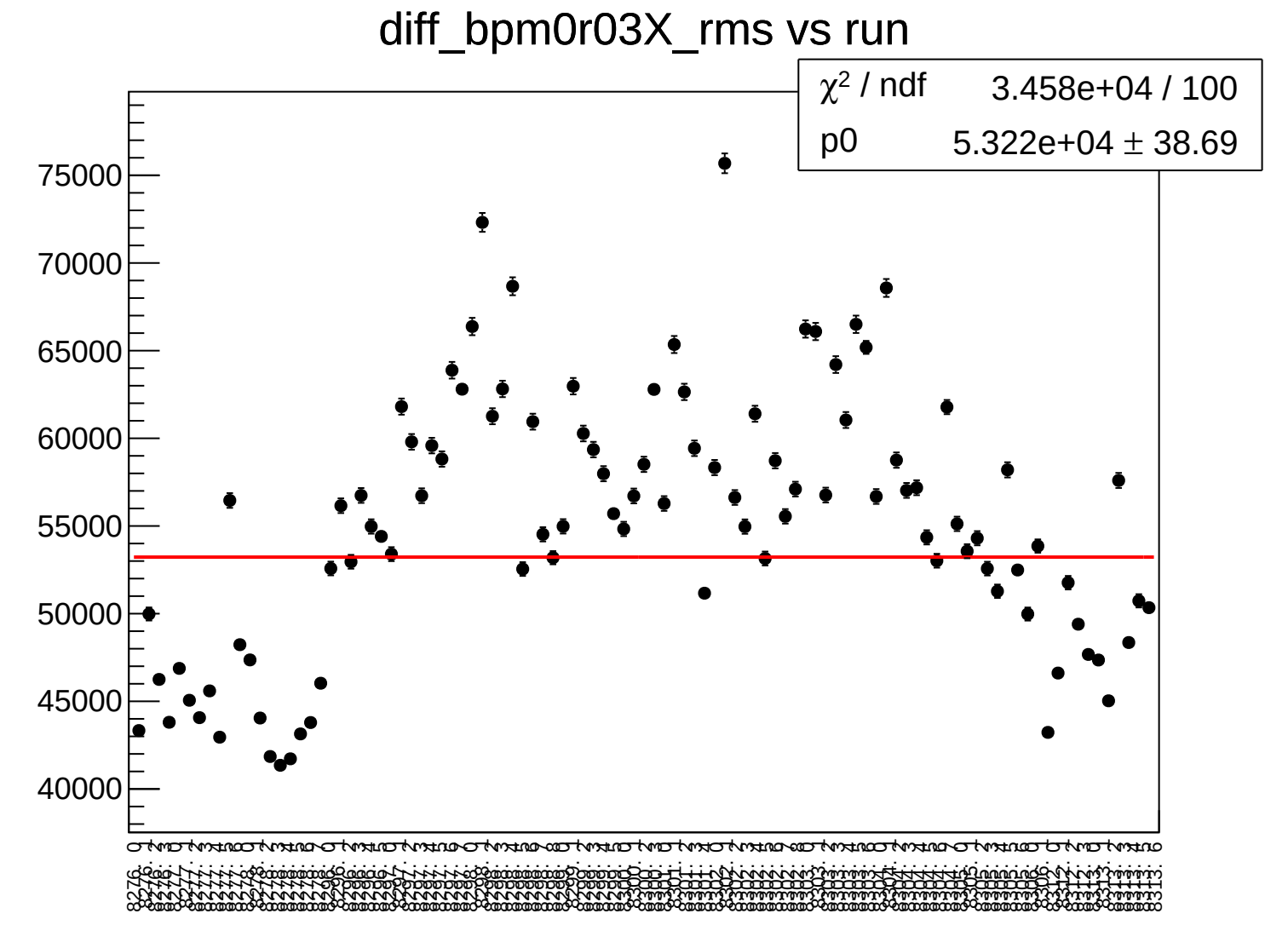

diff_bpm0l10Y_mean vs run
χ² / ndf 167.8 / 100
p0 −26.14 ± 1.066
20
0
−20
−40
−60
pull
Entries 101
Mean 630.7
Std Dev 0
3
2
1
0
−1
−2
−3

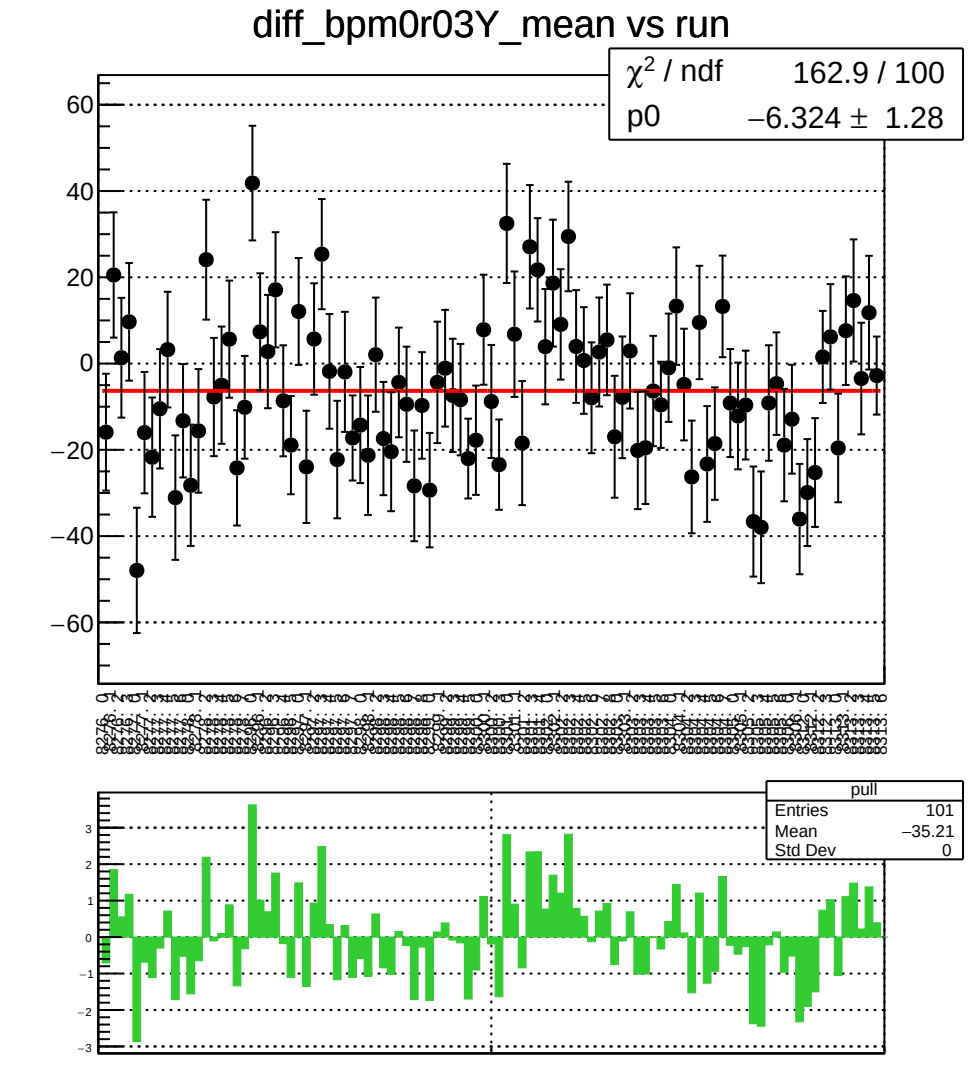

pull1D
Entries 101
Mean 0.01132
Std Dev 1.289
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

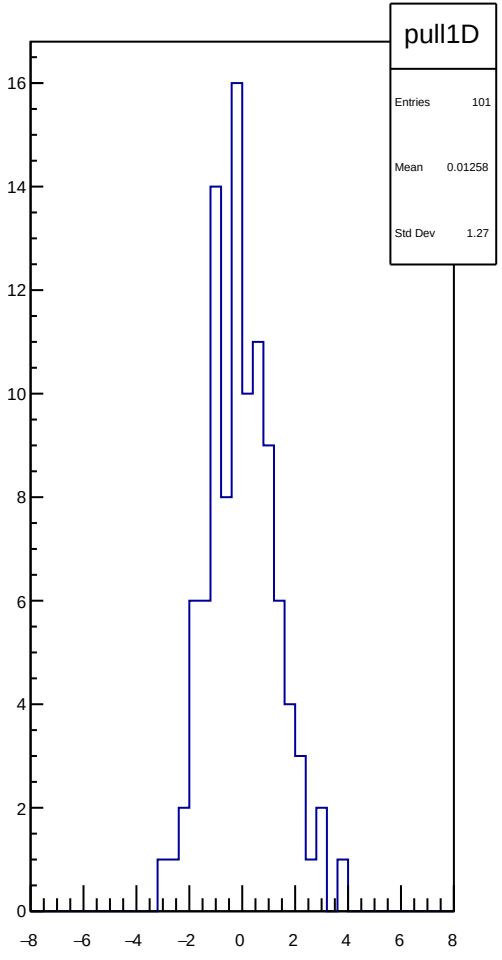

diff_bpm0l10Y_rms vs run
χ² / ndf 1306 / 100
p0 1046 ± 0.7537
1200
1150
1100
1050
1000

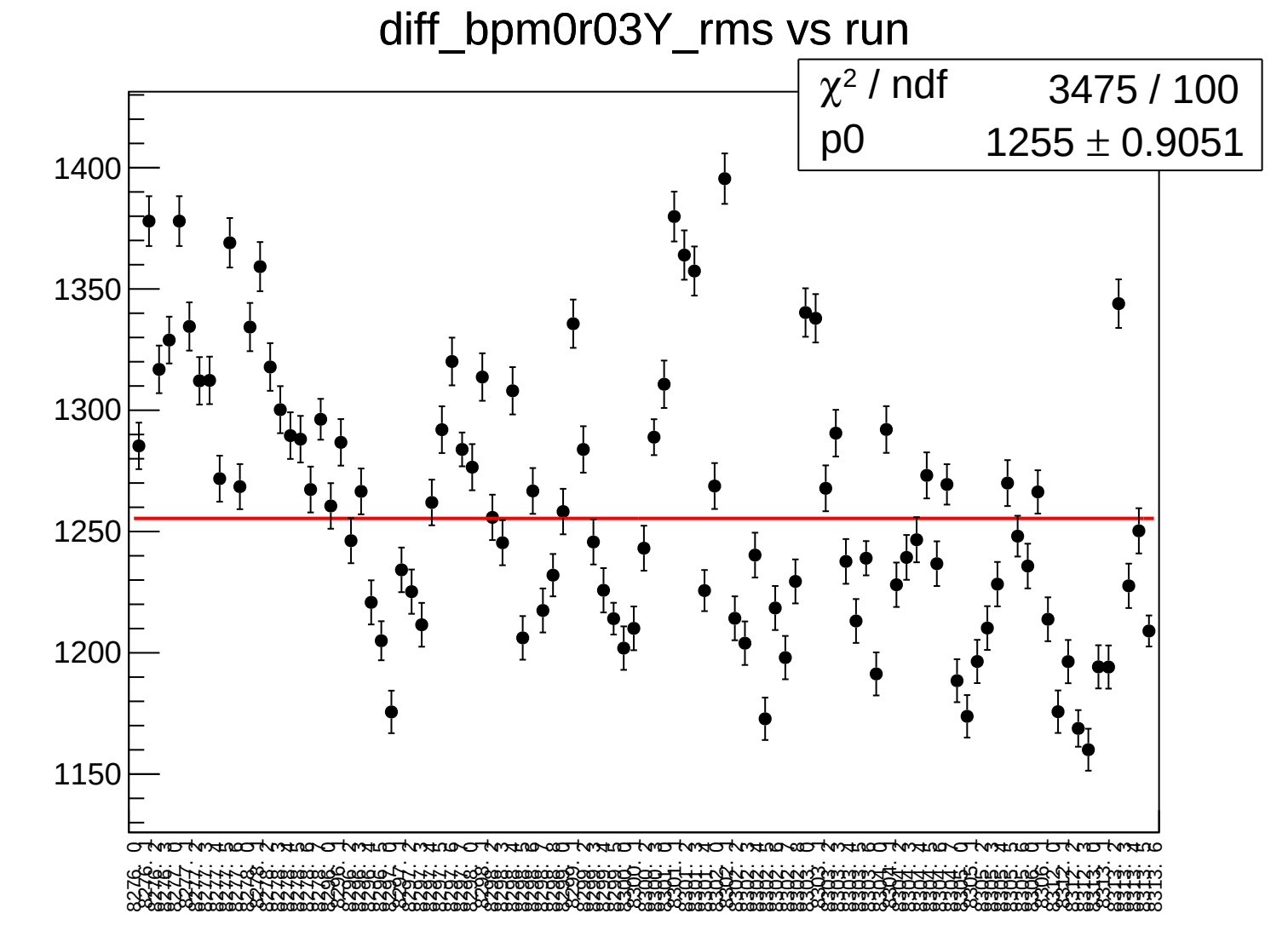

diff_bpm0r03X_mean vs run
χ² / ndf 99.85 / 100
p0 −127.4 ± 54.71
pull
Entries 101
Mean −10.3
Std Dev 0

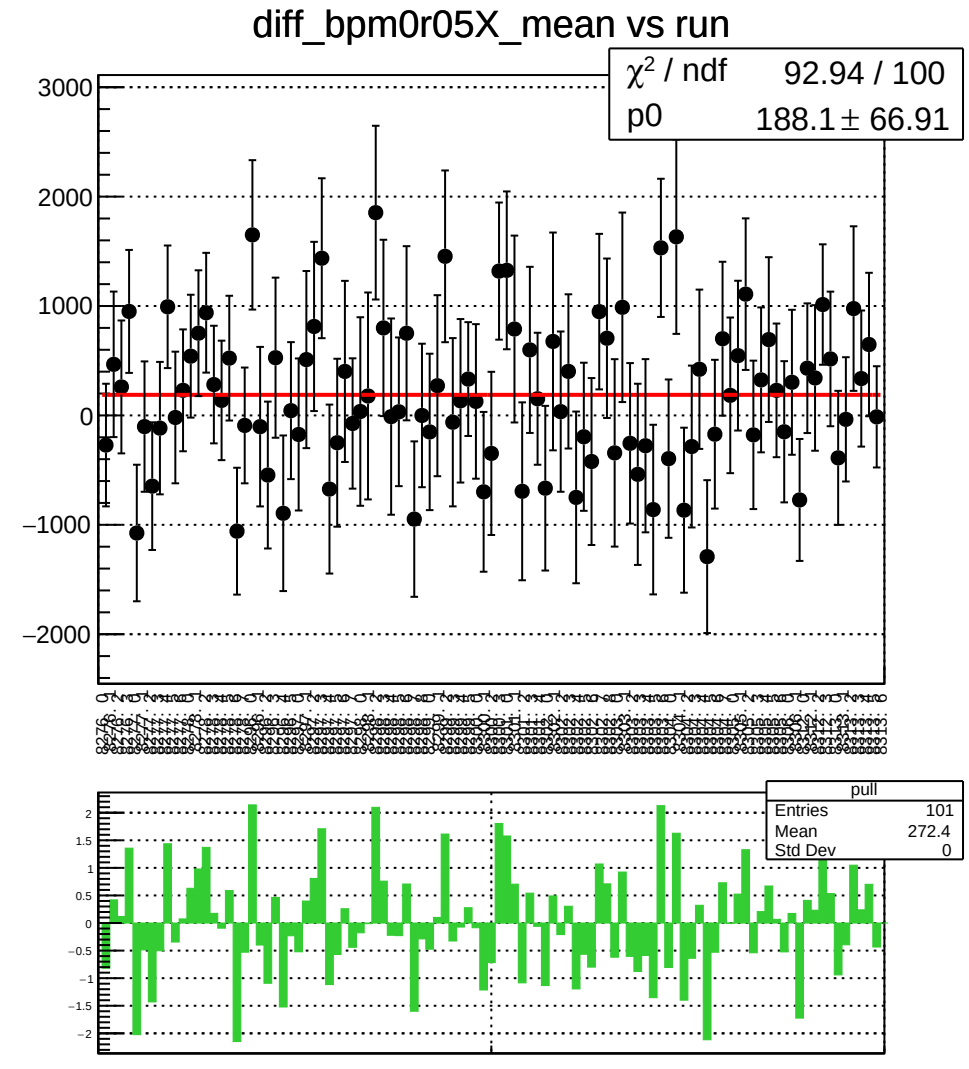

pull1D
Entries 101
Mean 0.004002
Std Dev 0.9943

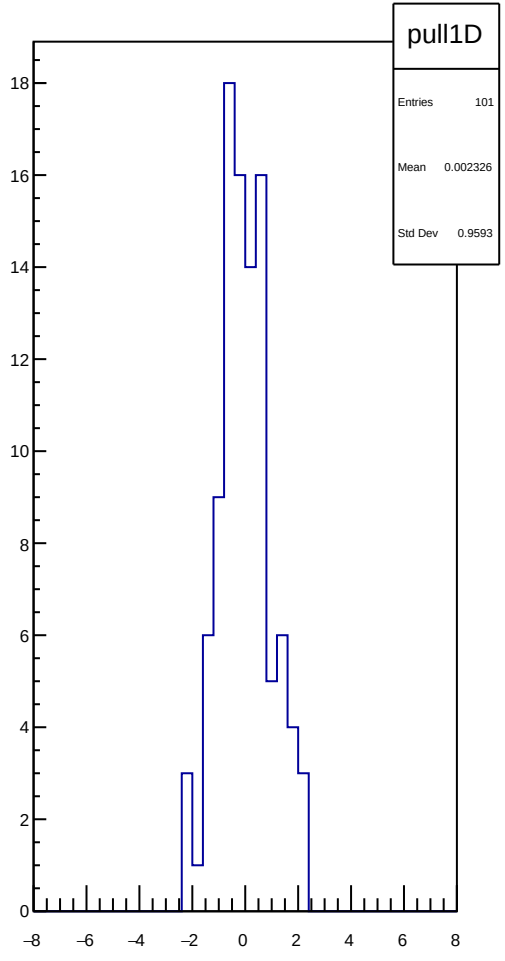

diff_bpm0r03X_rms vs run
χ² / ndf 3.458e+04 / 100
p0 5.322e+04 ± 38.69
75000
70000
65000
60000
55000
50000
45000
40000

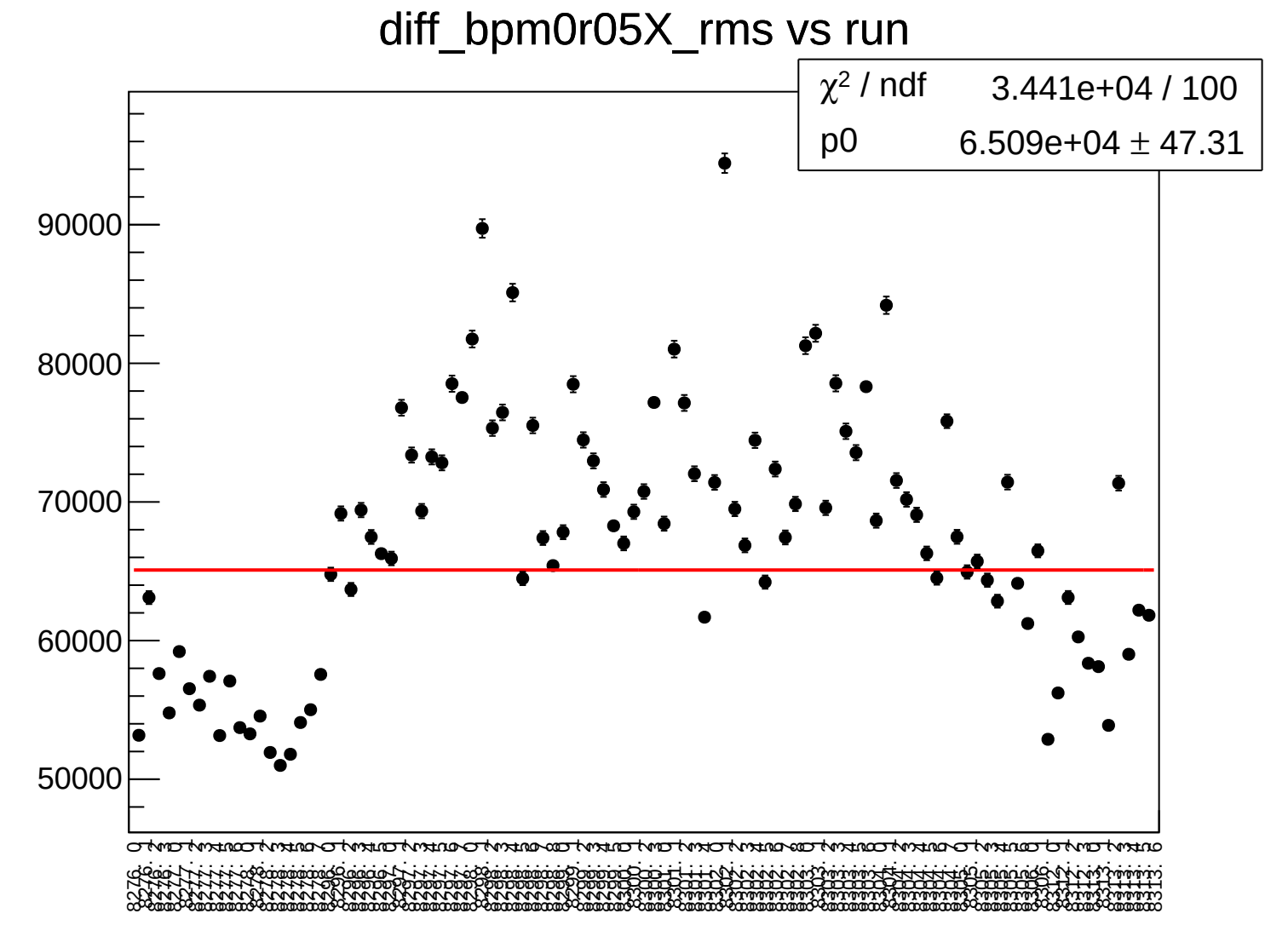

diff_bpm0r03Y_mean vs run
χ² / ndf 162.9 / 100
p0 −6.324 ± 1.28
pull
Entries 101
Mean −35.21
Std Dev 0

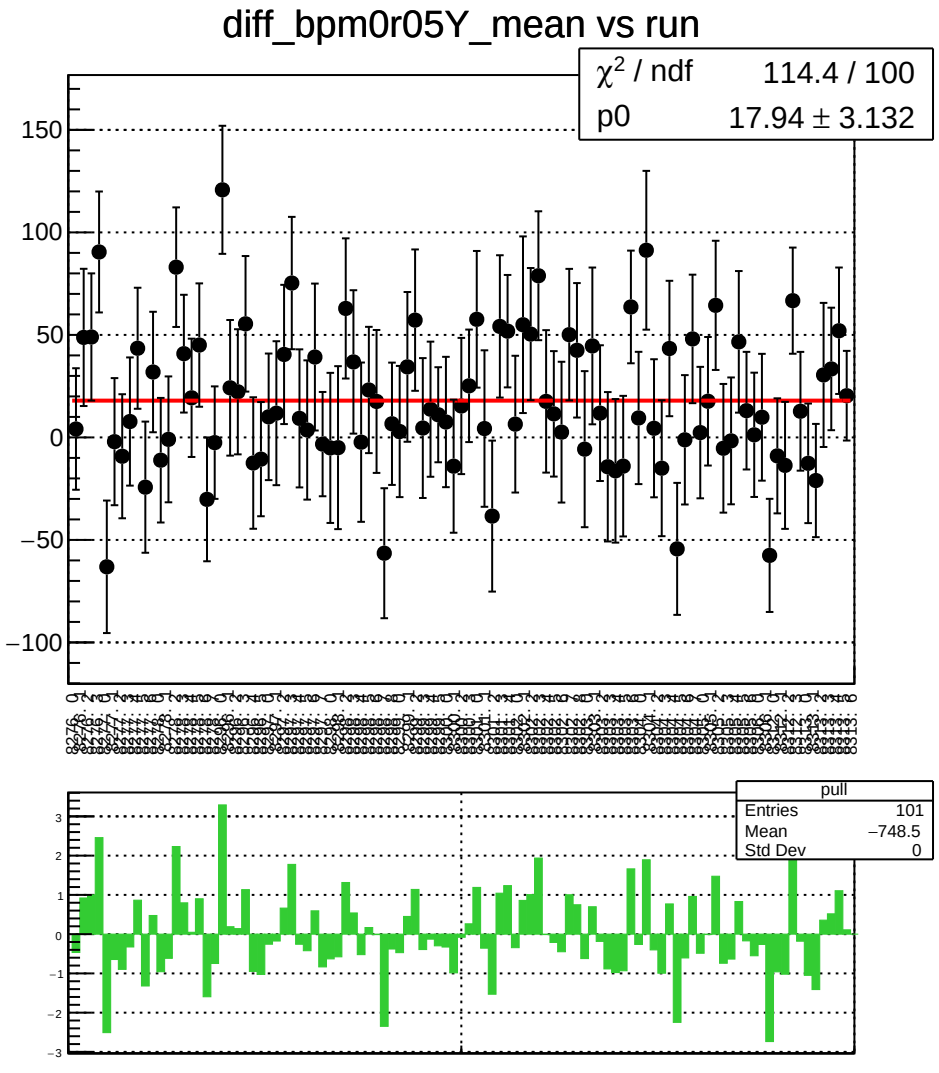

pull1D
Entries 101
Mean 0.01258
Std Dev 1.27

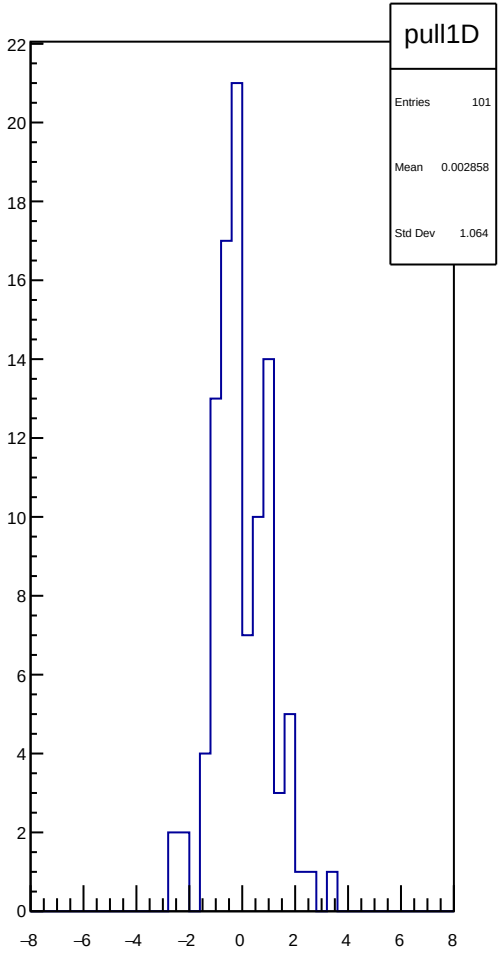

diff_bpm0r03Y_rms vs run
χ² / ndf 3475 / 100
p0 1255 ± 0.9051
1400
1350
1300
1250
1200
1150

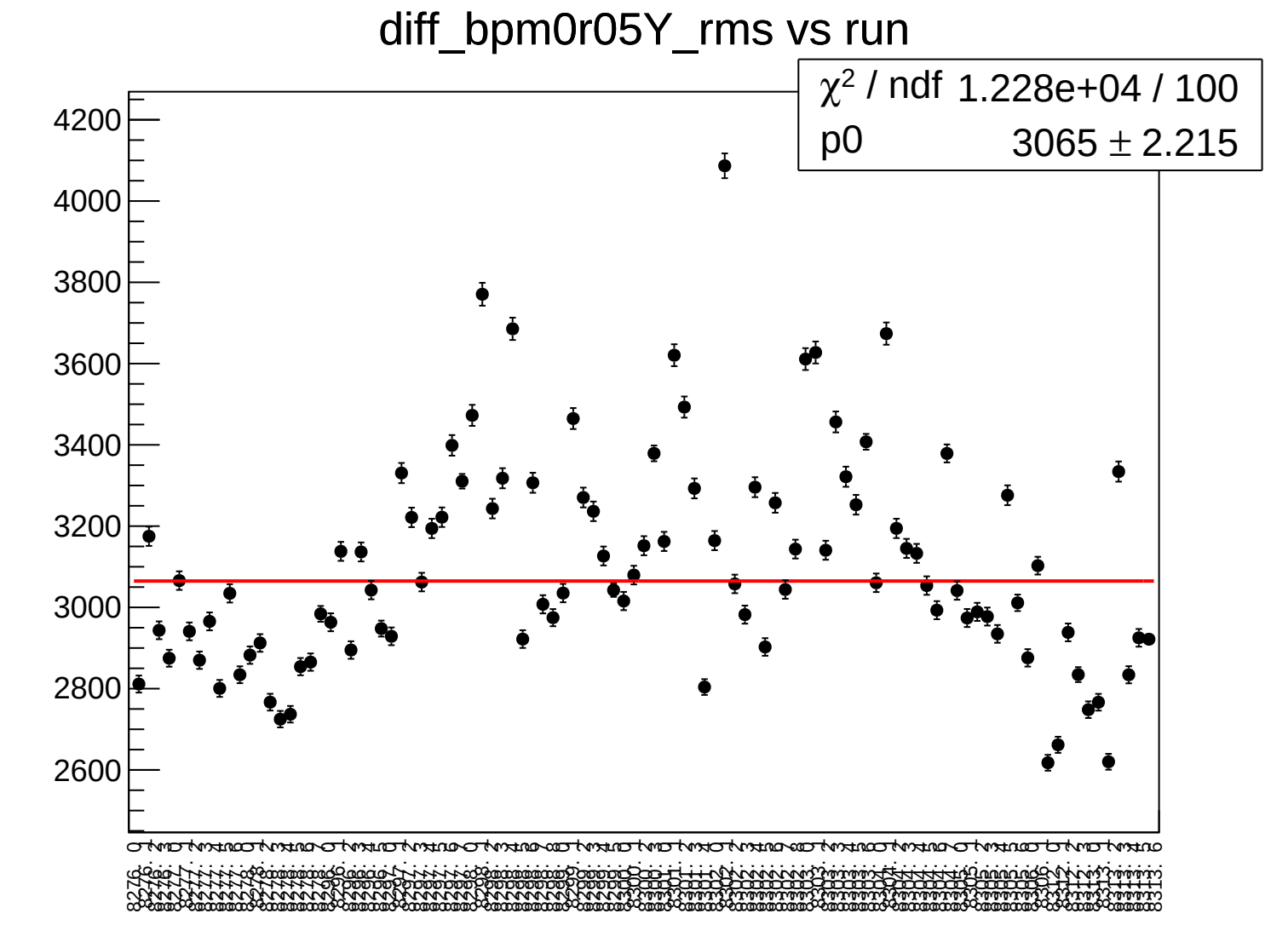

diff_bpm0r05X_mean vs run
χ² / ndf 92.94 / 100
p0 188.1 ± 66.91
3000
2000
1000
0
−1000
−2000
pull
Entries 101
Mean 272.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

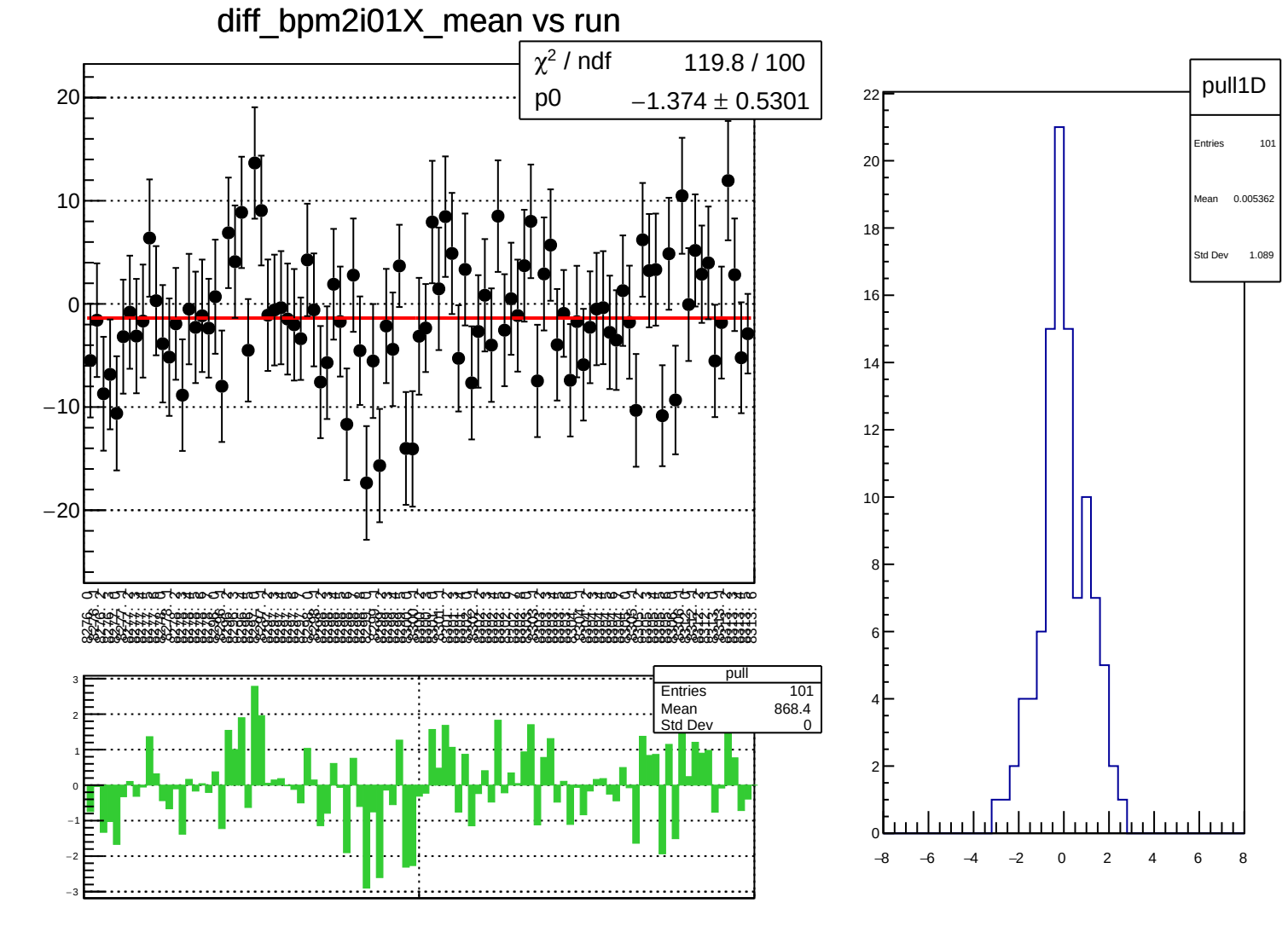

pull1D
Entries 101
Mean 0.002326
Std Dev 0.9593
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

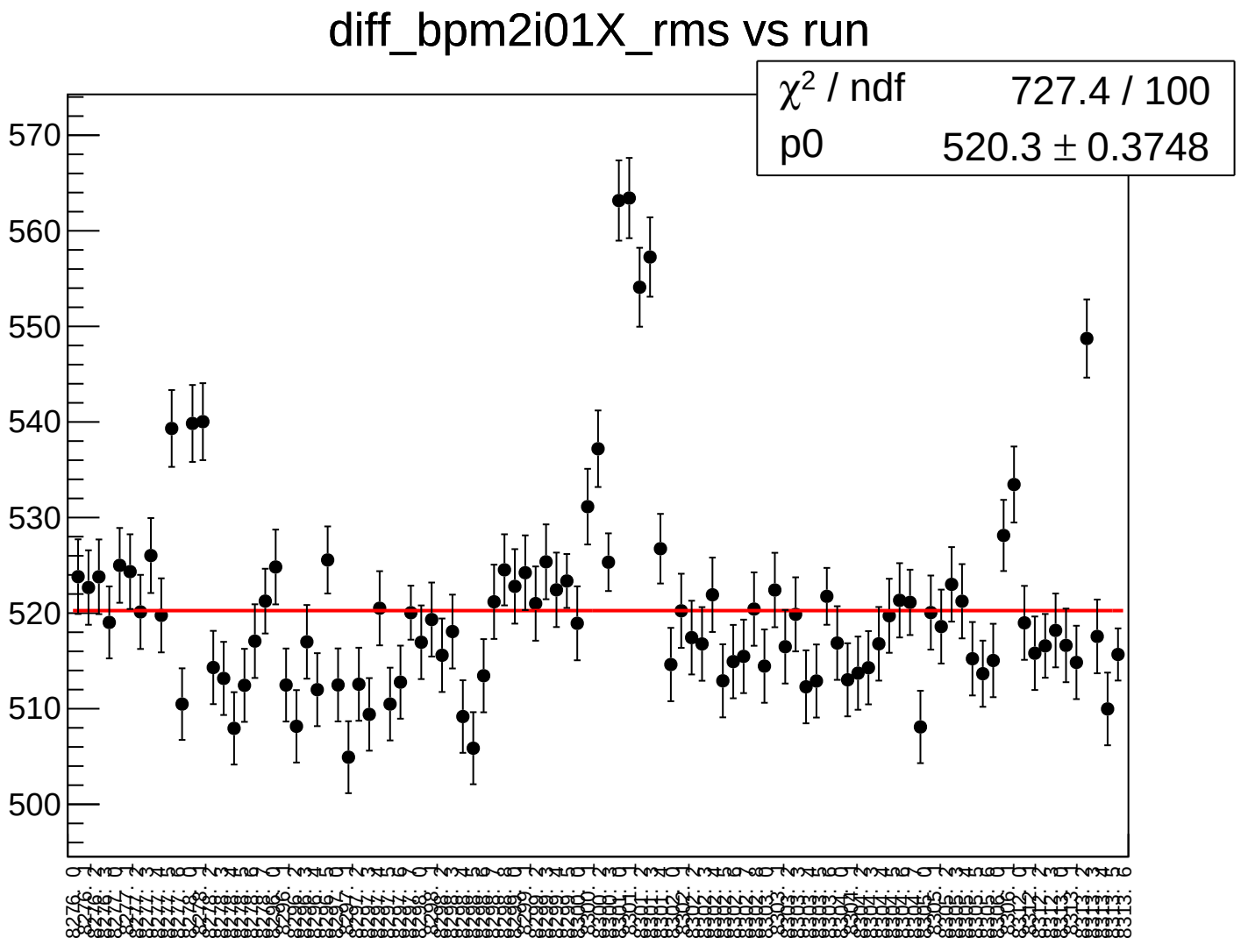

diff_bpm0r05X_rms vs run
χ² / ndf 3.441e+04 / 100
p0 6.509e+04 ± 47.31
90000
80000
70000
60000
50000

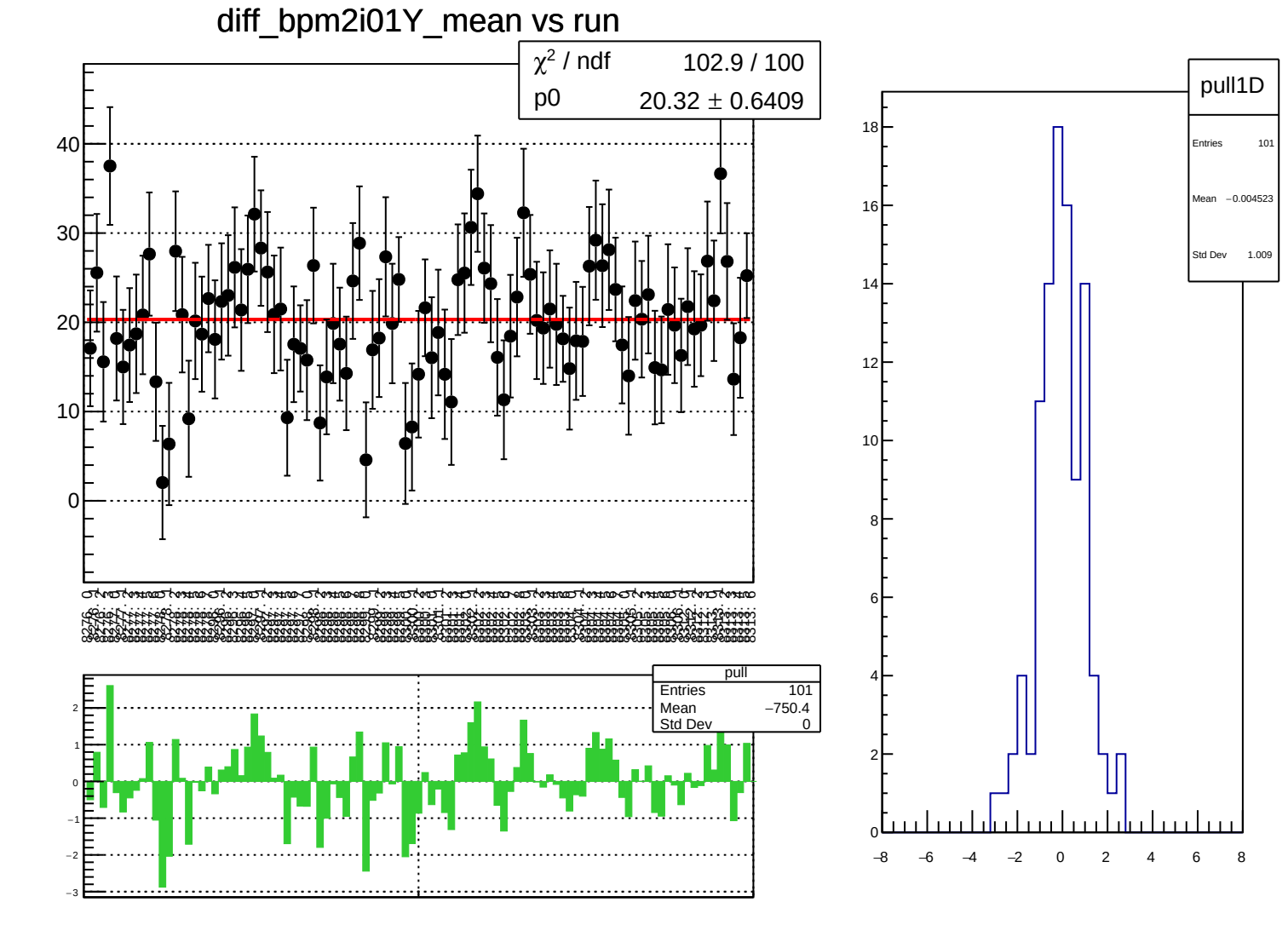

diff_bpm0r05Y_mean vs run
χ^2 / ndf 114.4 / 100
p0 17.94 ± 3.132
150
100
50
0
−50
−100
pull
Entries 101
Mean −748.5
Std Dev 0
3
2
1
0
−1
−2
−3

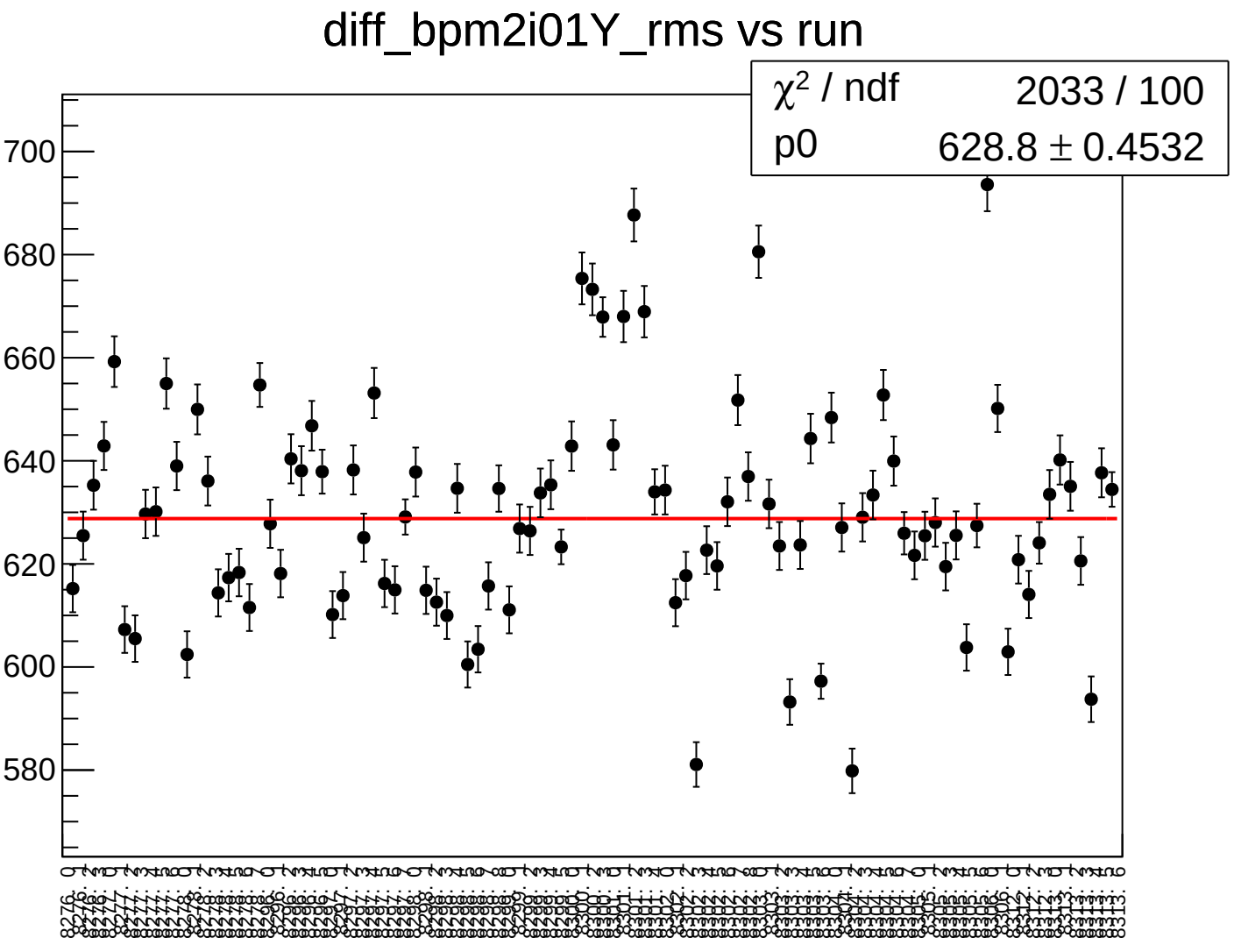

pull1D
Entries 101
Mean 0.002858
Std Dev 1.064
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

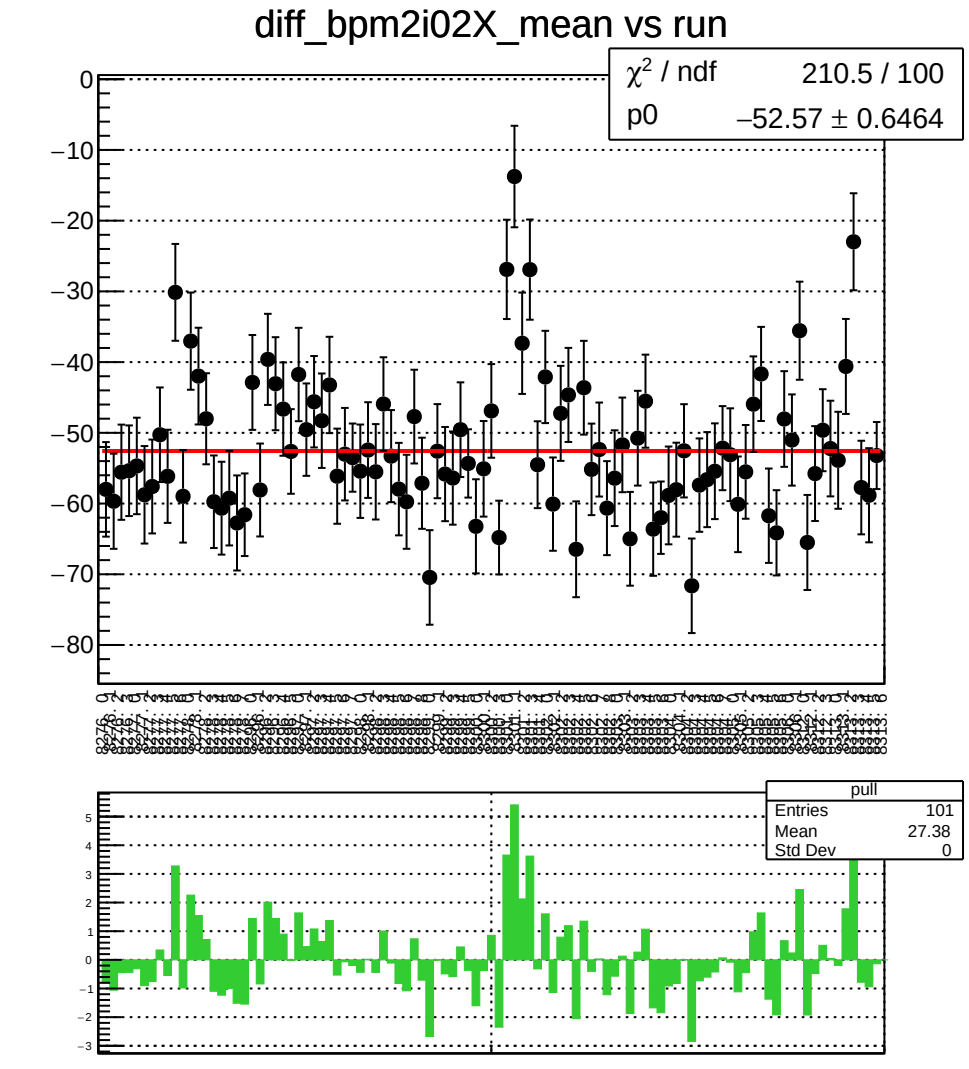

diff_bpm0r05Y_rms vs run
χ² / ndf 1.228e+04 / 100
p0 3065 ± 2.215
4200
4000
3800
3600
3400
3200
3000
2800
2600

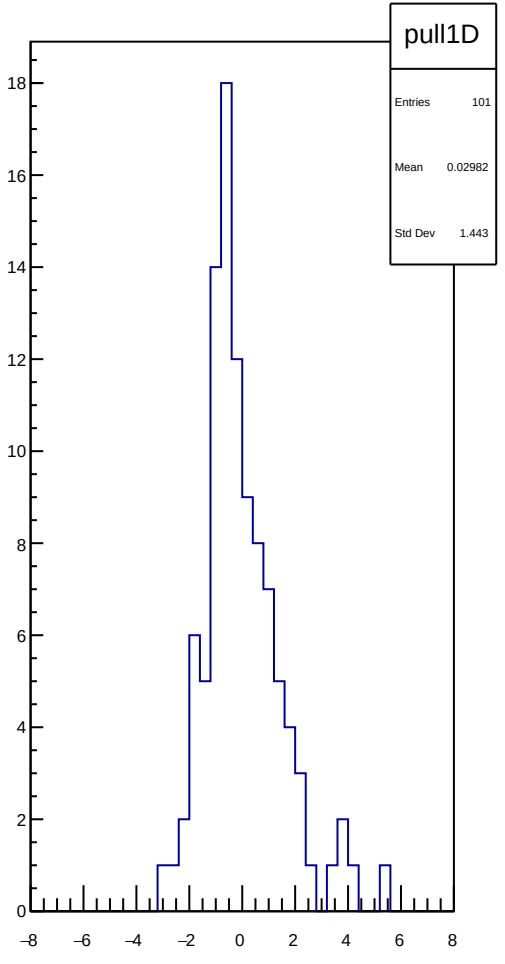

diff_bpm2i01X_mean vs run
χ² / ndf 119.8 / 100
p0 −1.374 ± 0.5301
20
10
0
−10
−20
pull
Entries 101
Mean 868.4
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.005362
Std Dev 1.089
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

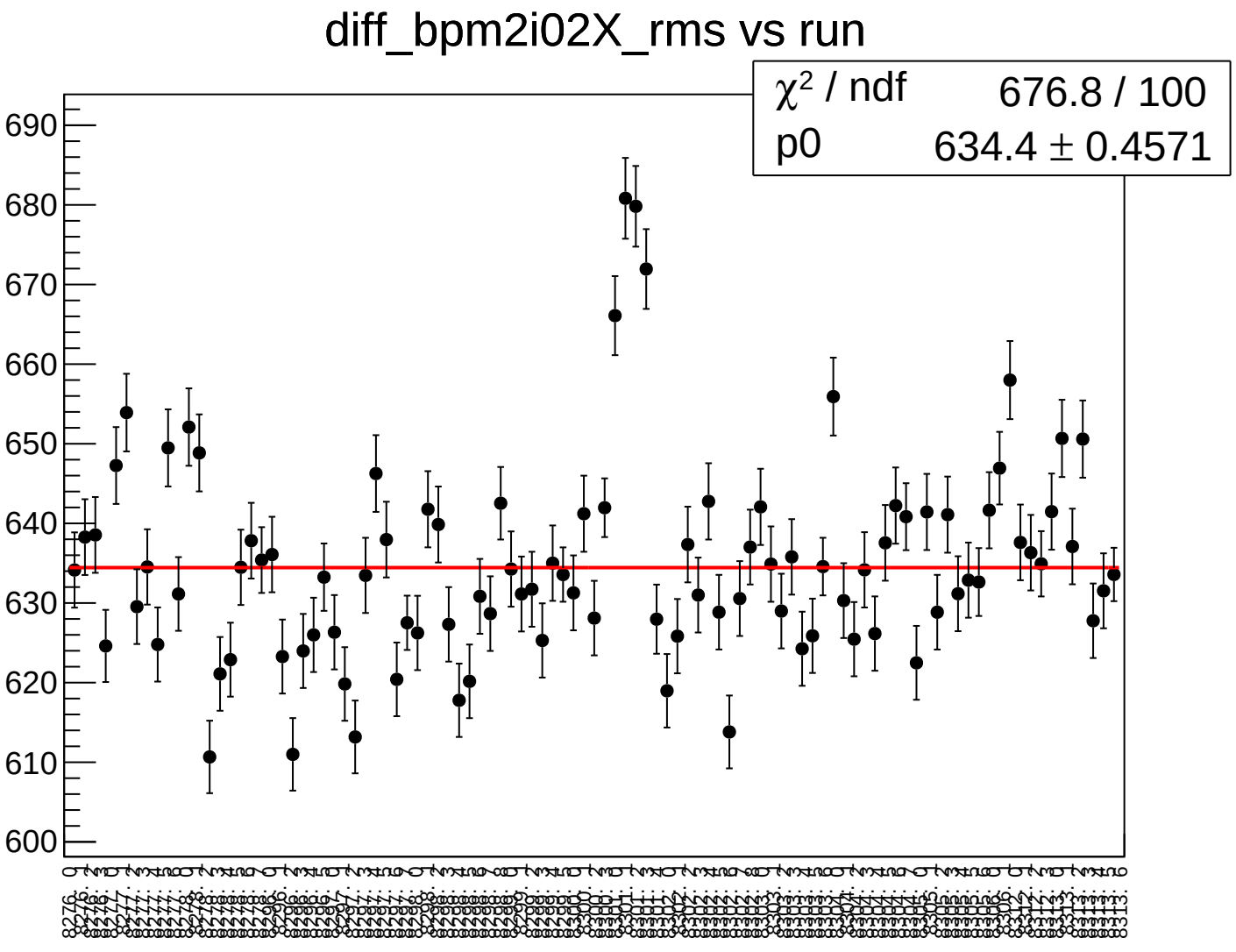

diff_bpm2i01X_rms vs run
χ² / ndf 727.4 / 100
p0 520.3 ± 0.3748
570
560
550
540
530
520
510
500

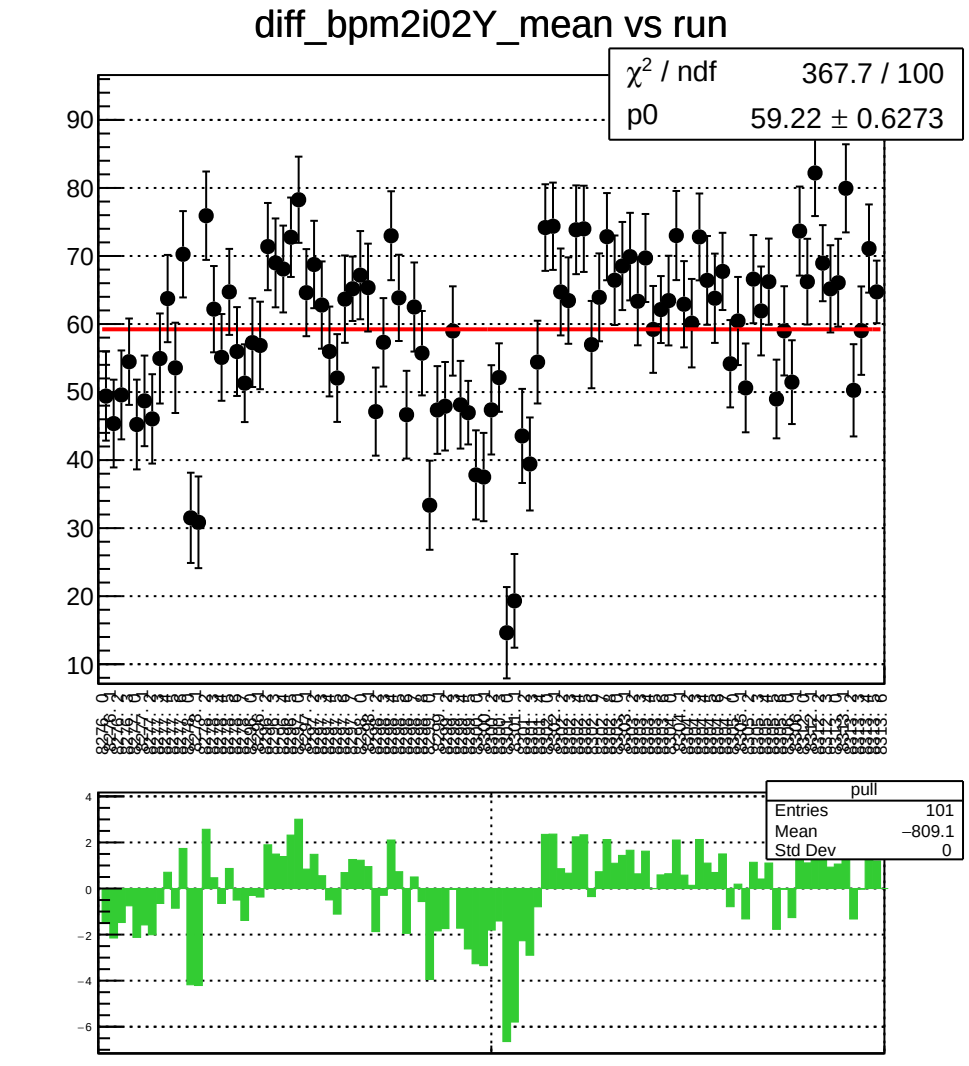

diff_bpm2i01Y_mean vs run
χ² / ndf 102.9 / 100
p0 20.32 ± 0.6409
pull
Entries 101
Mean −750.4
Std Dev 0
pull1D
Entries 101
Mean −0.004523
Std Dev 1.009

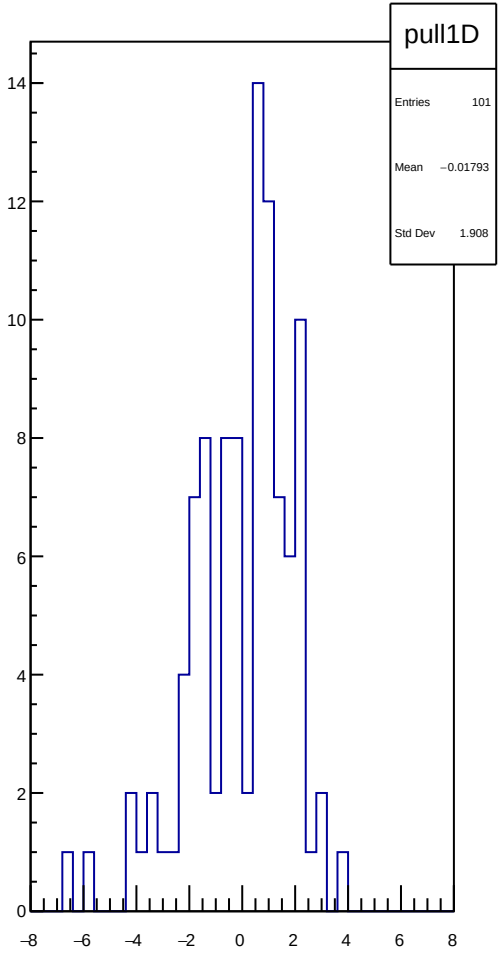

diff_bpm2i01Y_rms vs run
χ² / ndf 2033 / 100
p0 628.8 ± 0.4532
700
680
660
640
620
600
580

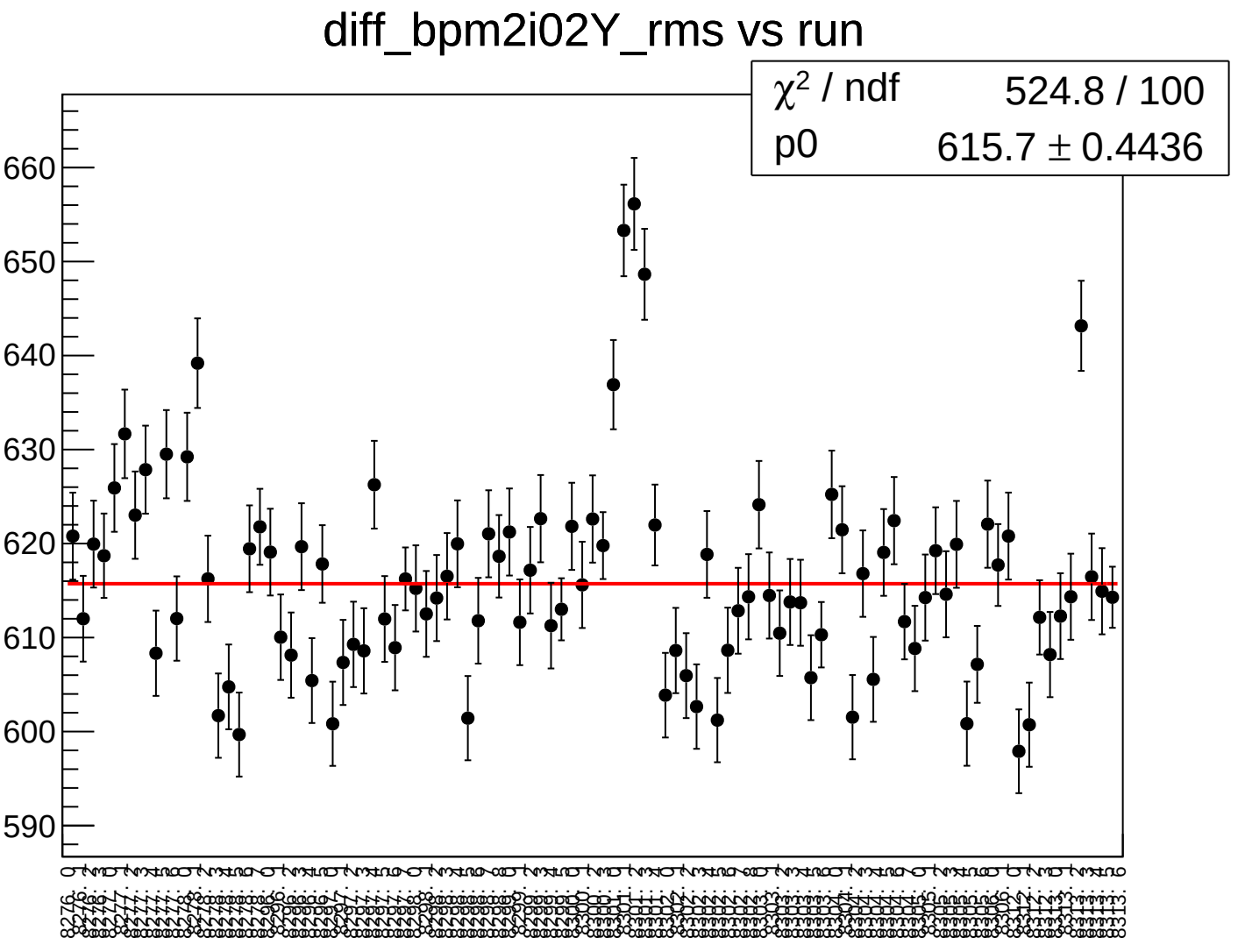

diff_bpm2i02X_mean vs run
χ² / ndf 210.5 / 100
p0 −52.57 ± 0.6464
pull
Entries 101
Mean 27.38
Std Dev 0

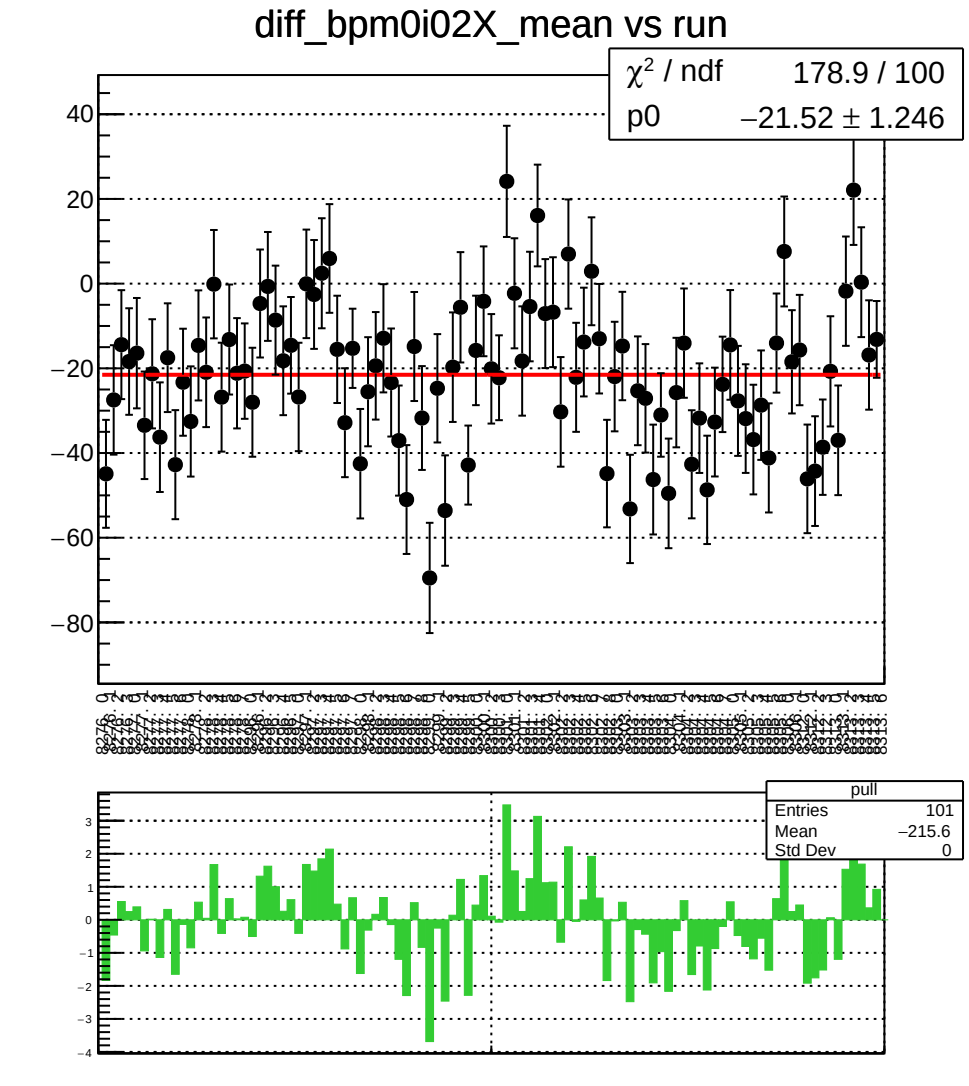

pull1D
Entries 101
Mean 0.02982
Std Dev 1.443

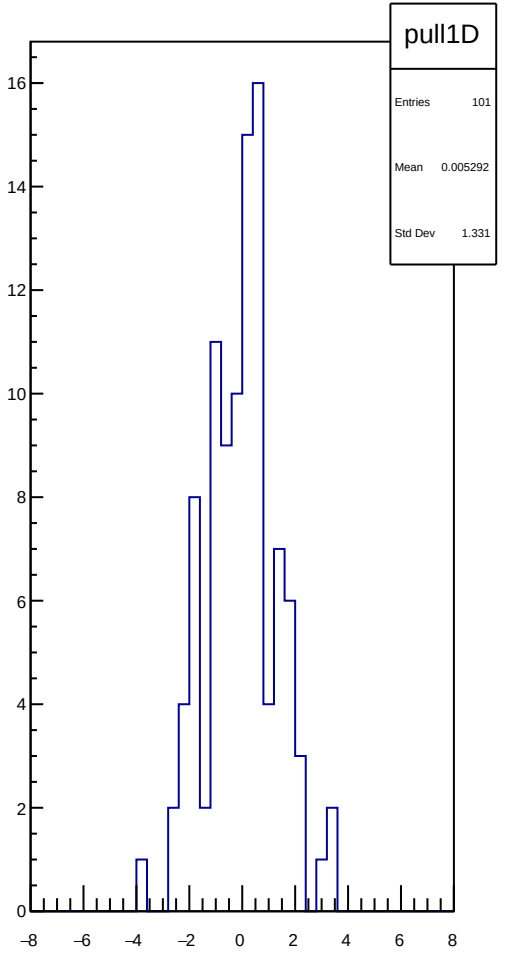

diff_bpm2i02X_rms vs run
χ² / ndf 676.8 / 100
p0 634.4 ± 0.4571
690
680
670
660
650
640
630
620
610
600

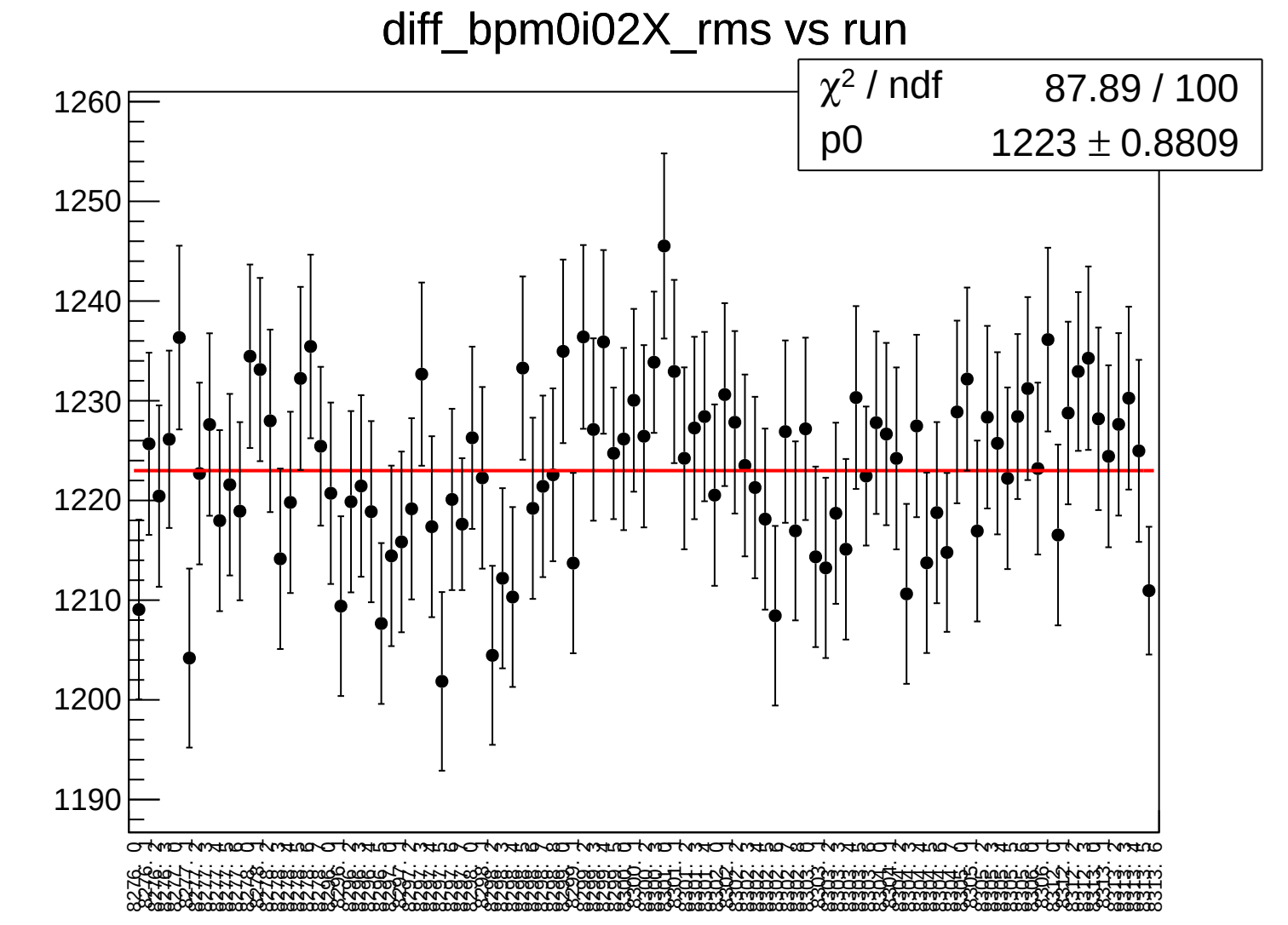

diff_bpm2i02Y_mean vs run
χ² / ndf 367.7 / 100
p0 59.22 ± 0.6273
pull
Entries 101
Mean −809.1
Std Dev 0

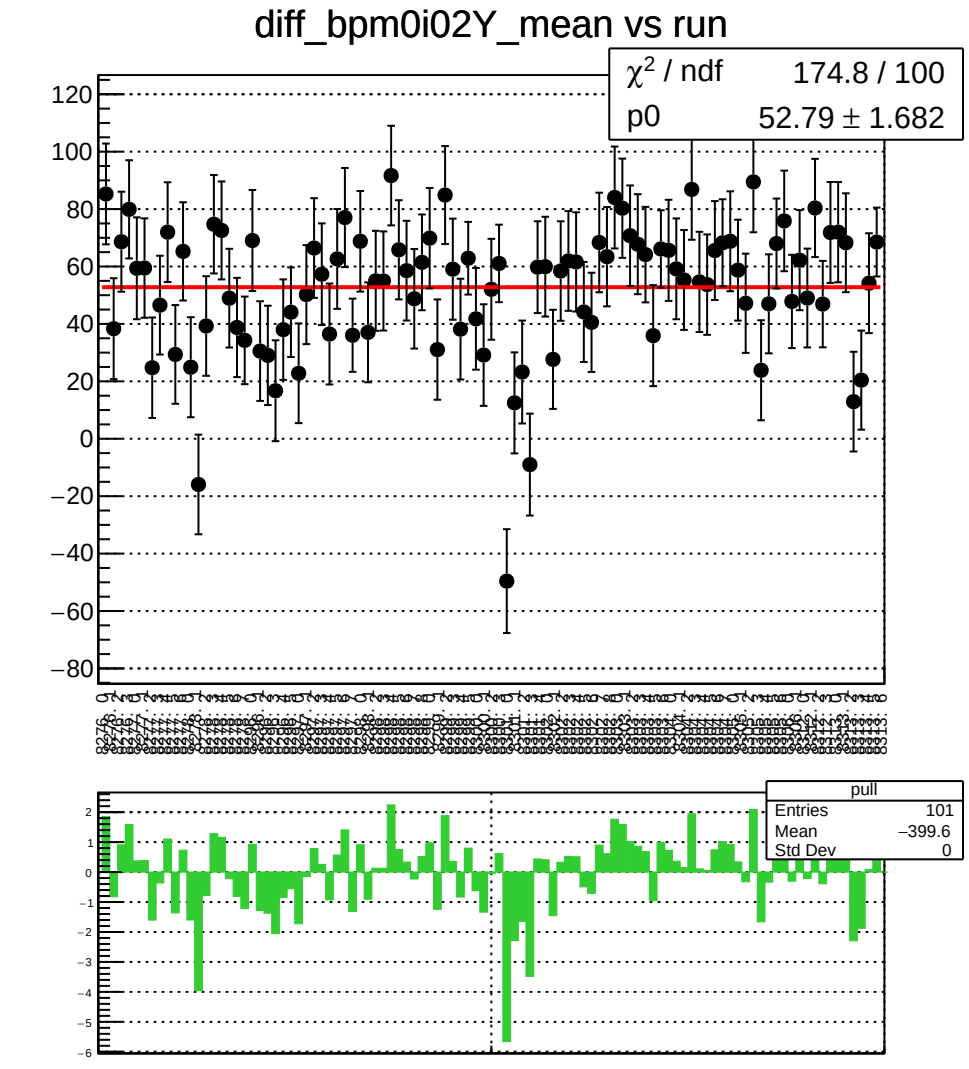

pull1D
Entries 101
Mean −0.01793
Std Dev 1.908

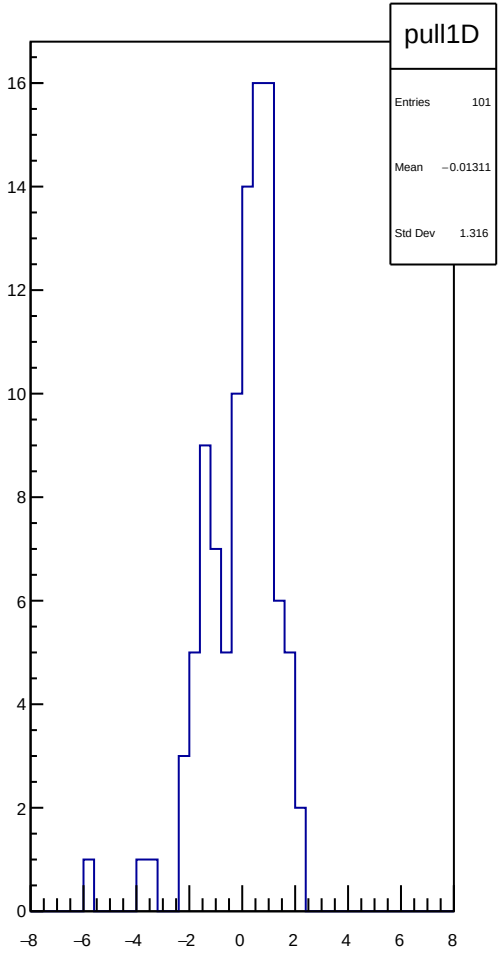

diff_bpm2i02Y_rms vs run
χ² / ndf 524.8 / 100
p0 615.7 ± 0.4436
660
650
640
630
620
610
600
590

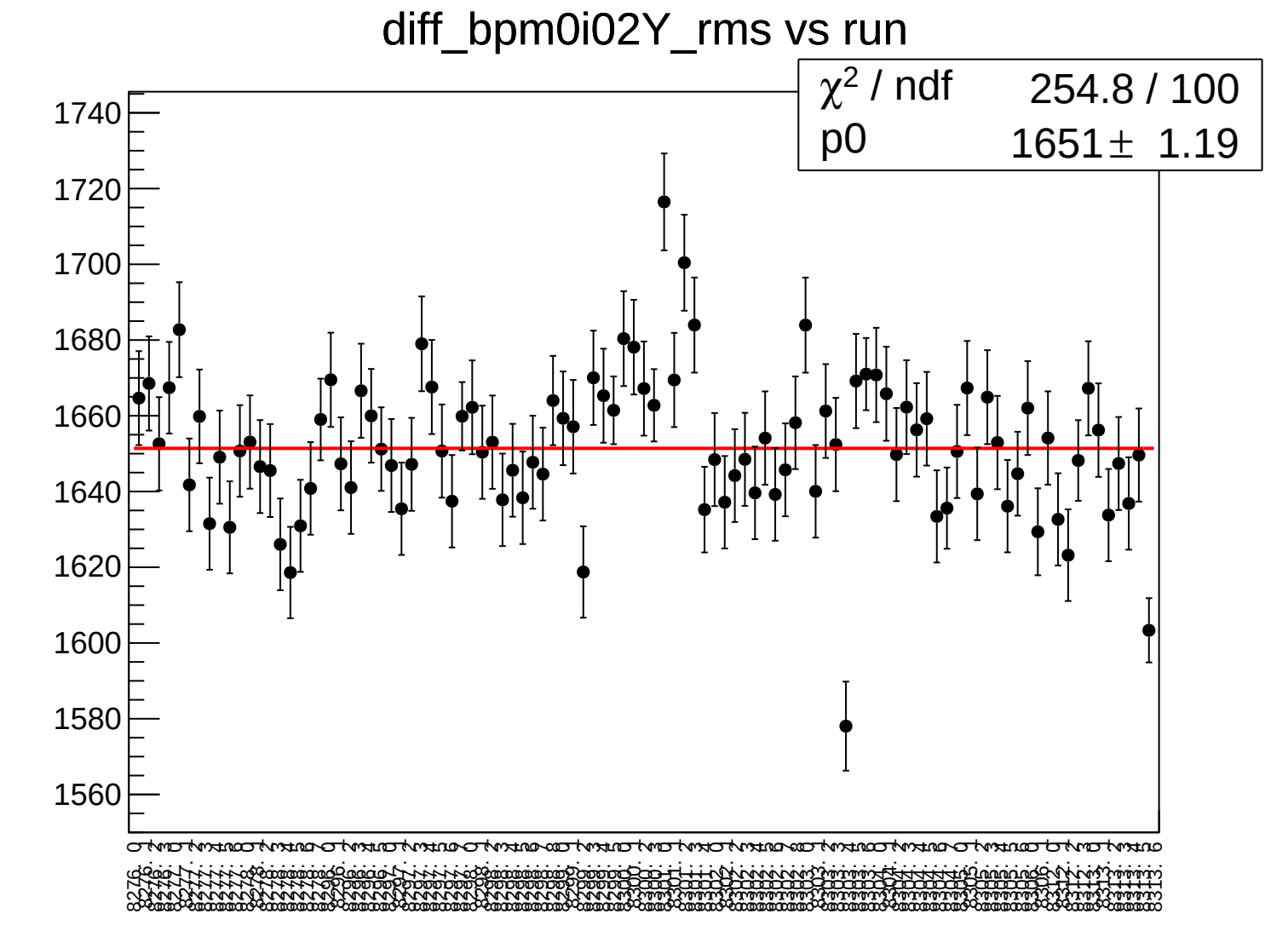

diff_bpm0i02X_mean vs run
χ² / ndf 178.9 / 100
p0 −21.52 ± 1.246
pull
Entries 101
Mean −215.6
Std Dev 0

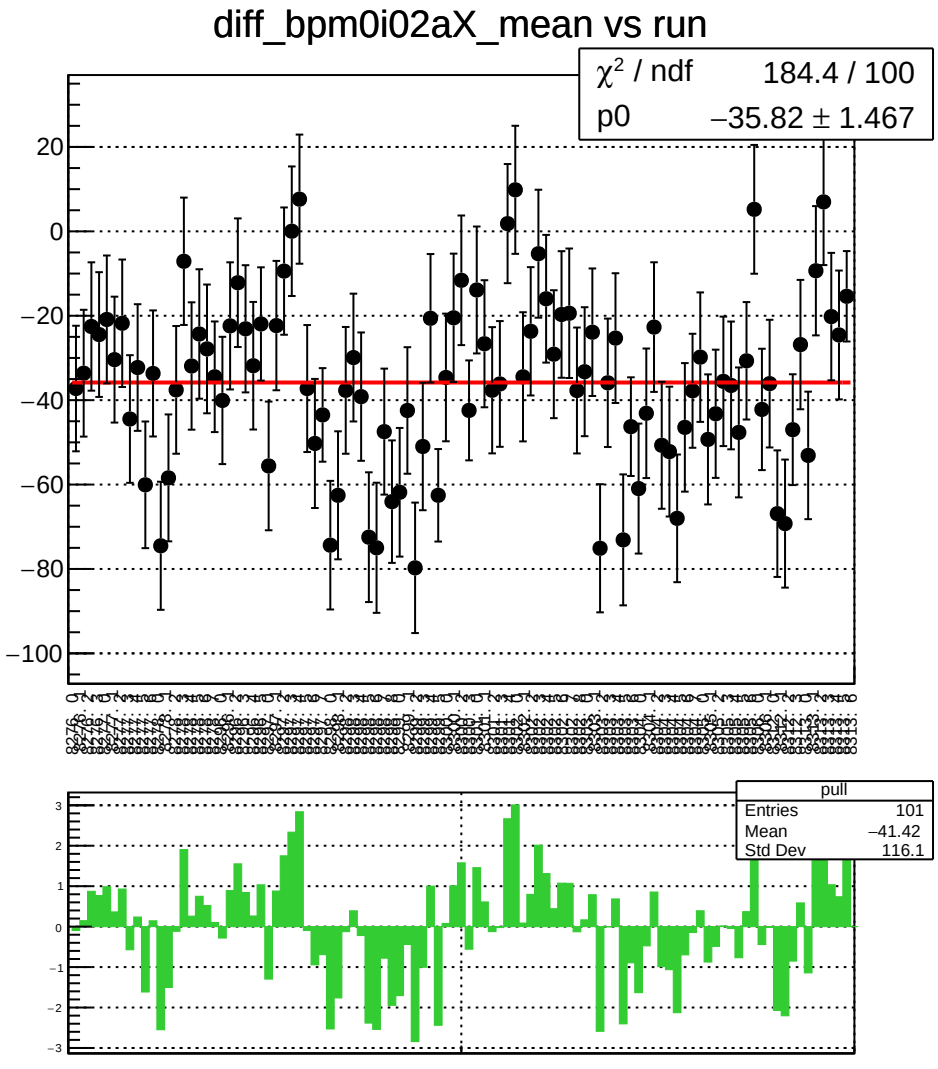

pull1D
Entries 101
Mean 0.005292
Std Dev 1.331

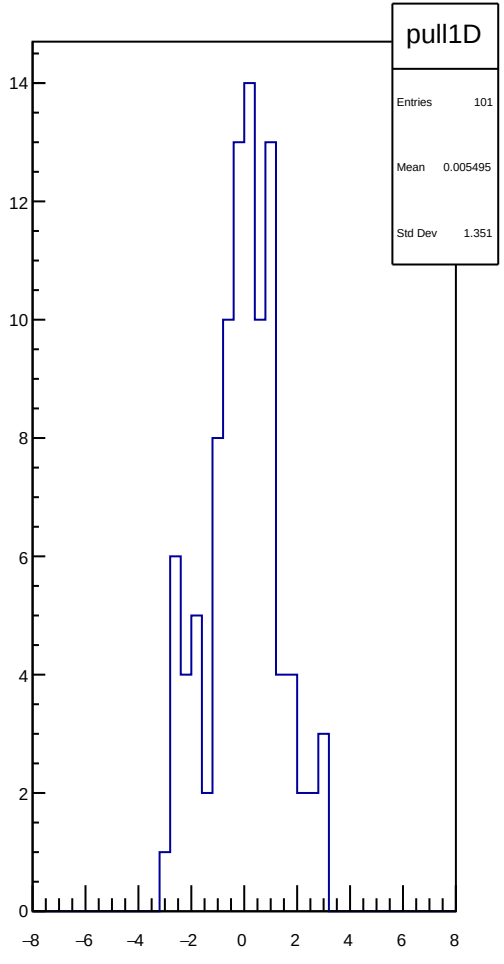

diff_bpm0i02X_rms vs run
χ² / ndf 87.89 / 100
p0 1223 ± 0.8809
1260
1250
1240
1230
1220
1210
1200
1190

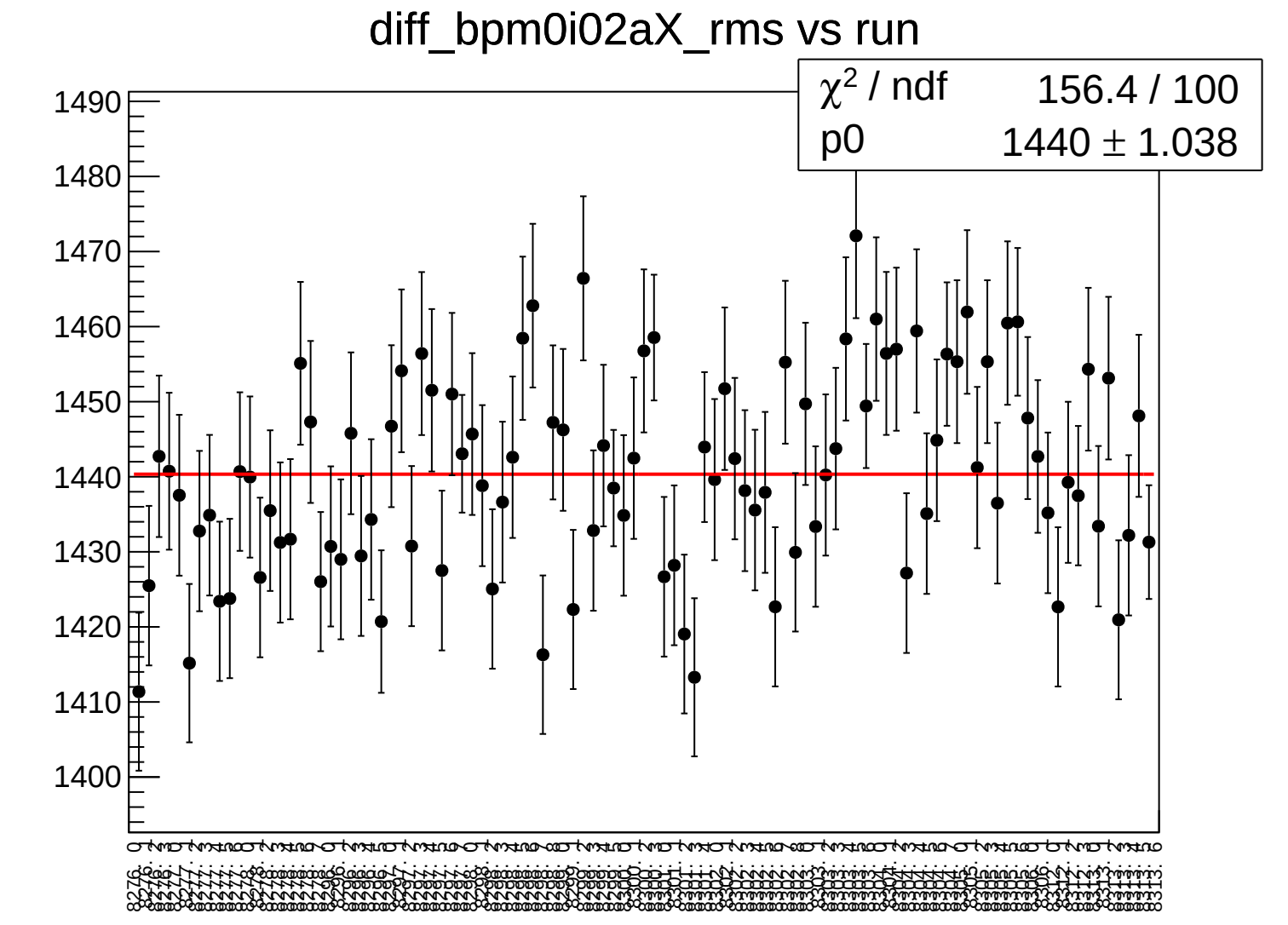

diff_bpm0i02Y_mean vs run
χ² / ndf 174.8 / 100
p0 52.79 ± 1.682
pull
Entries 101
Mean −399.6
Std Dev 0

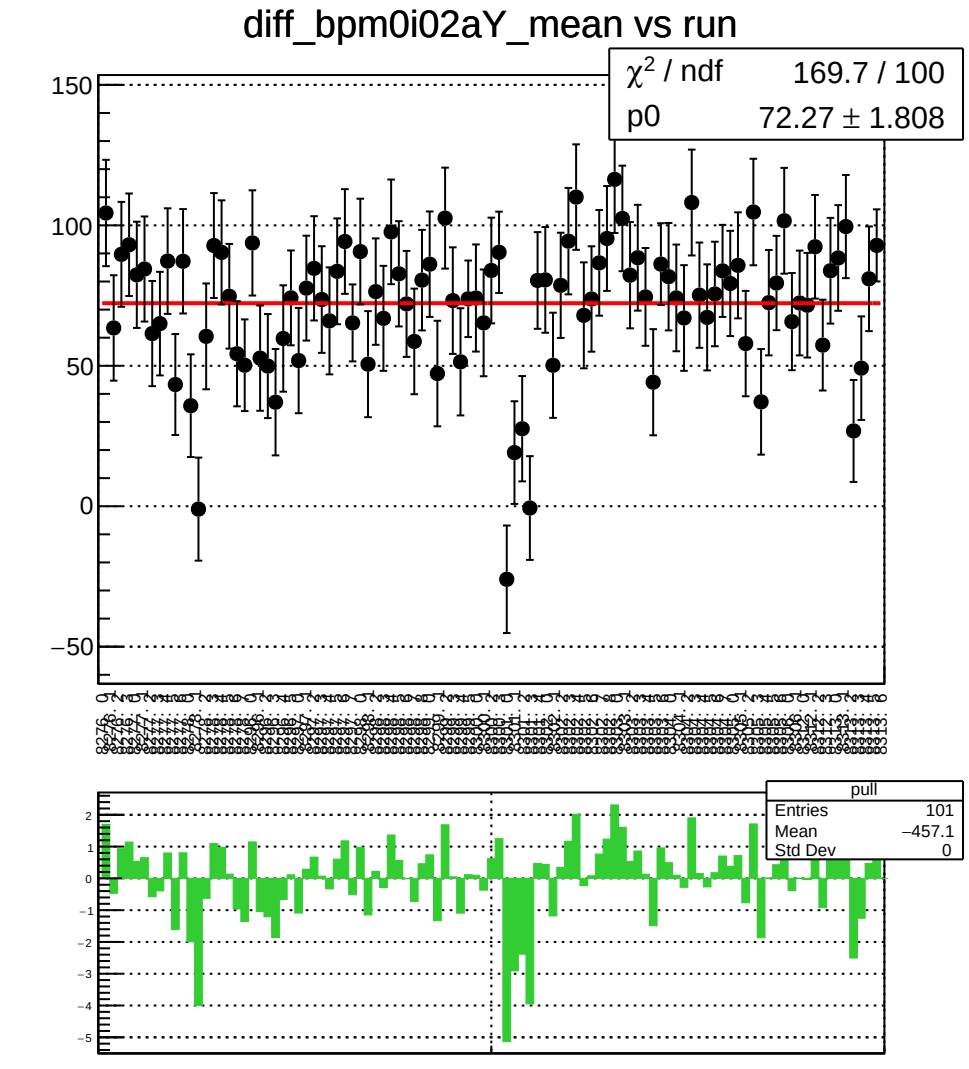

pull1D
Entries 101
Mean −0.01311
Std Dev 1.316

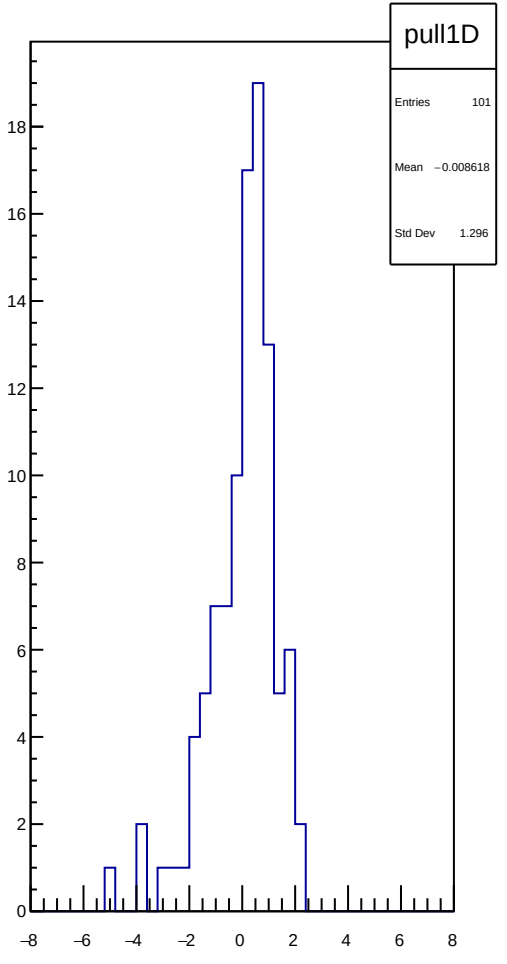

diff_bpm0i02Y_rms vs run
χ² / ndf 254.8 / 100
p0 1651 ± 1.19
1740
1720
1700
1680
1660
1640
1620
1600
1580
1560

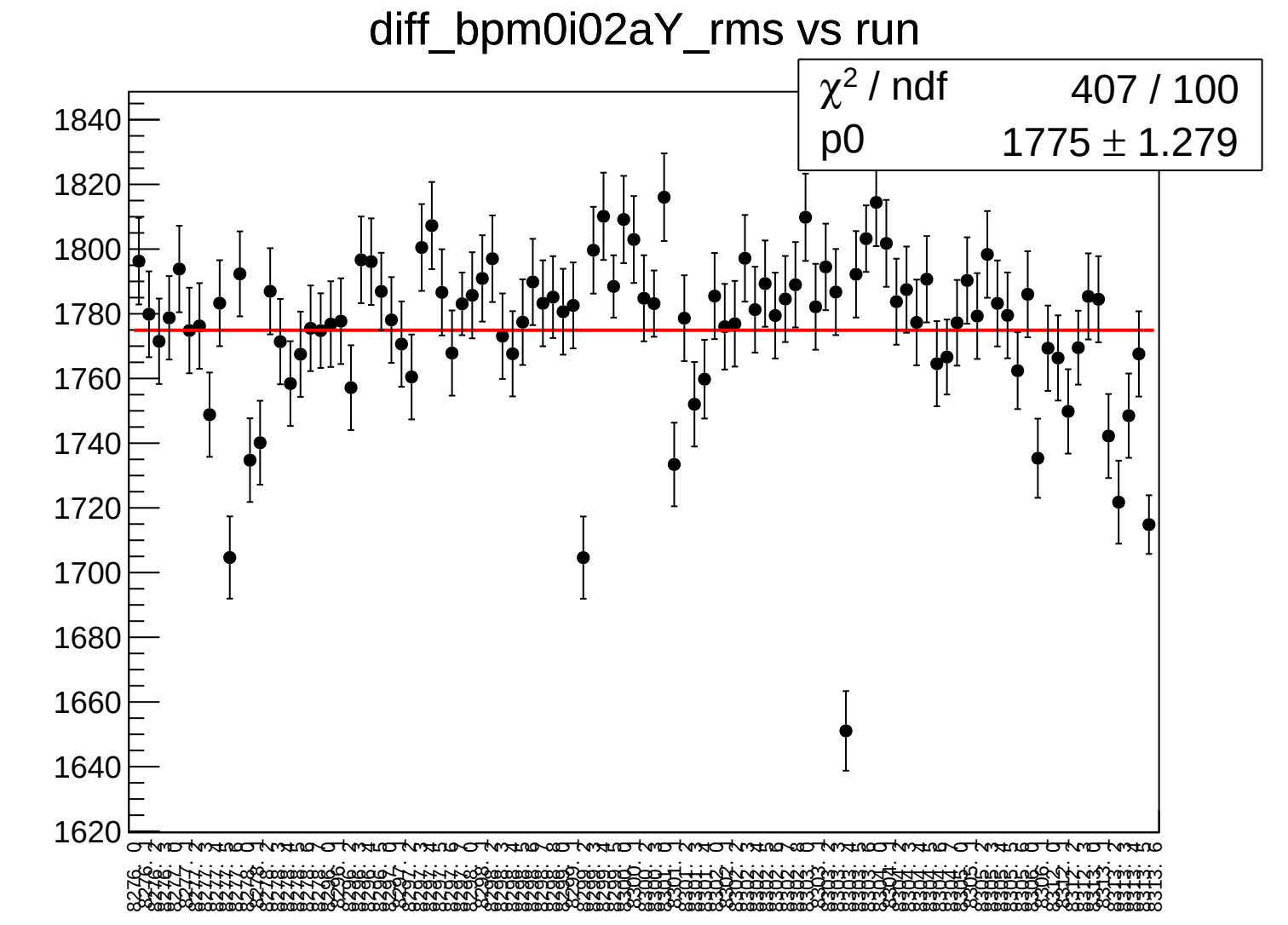

diff_bpm0i02aX_mean vs run
χ² / ndf 184.4 / 100
p0 −35.82 ± 1.467
20
0
−20
−40
−60
−80
−100
pull
Entries 101
Mean −41.42
Std Dev 116.1
3
2
1
0
−1
−2
−3

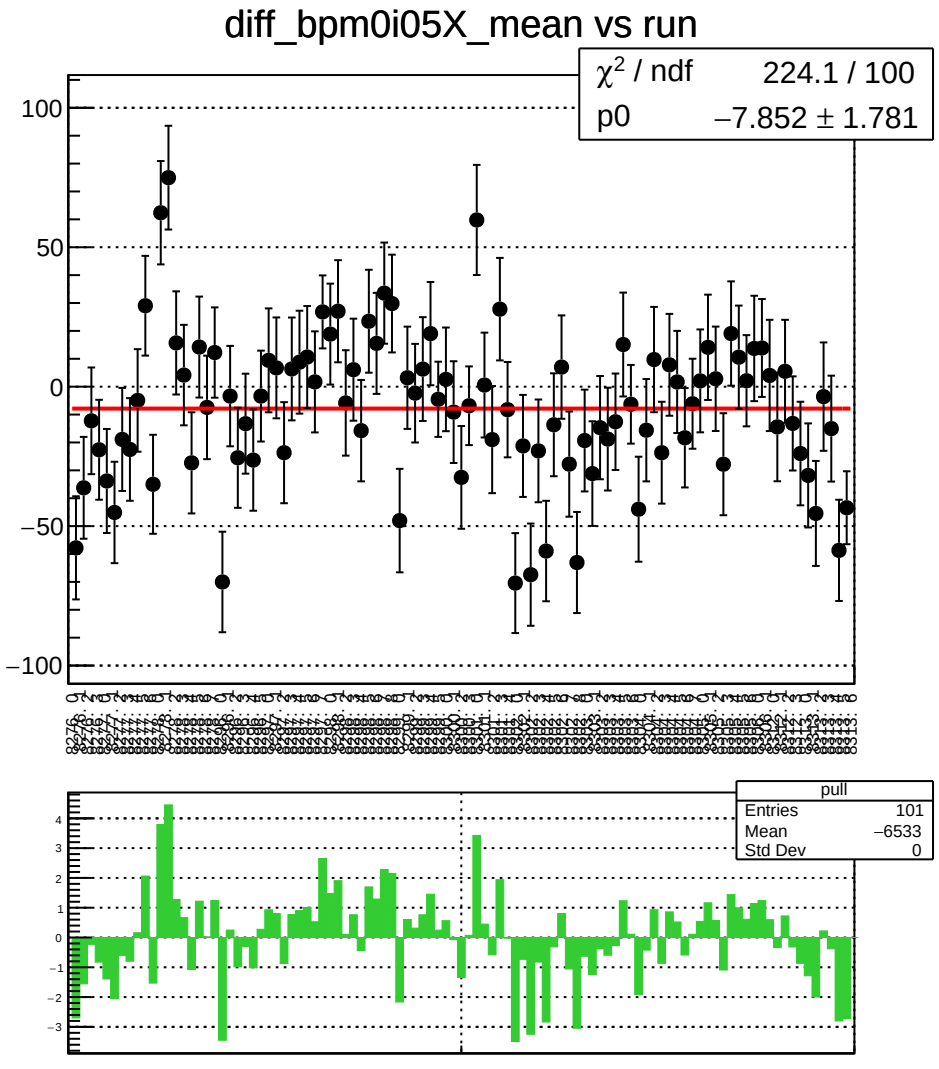

pull1D
Entries 101
Mean 0.005495
Std Dev 1.351
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

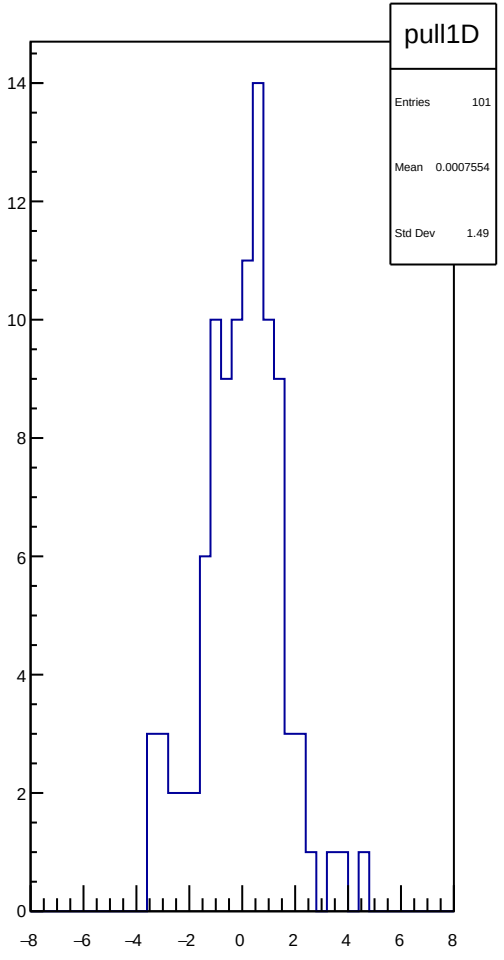

diff_bpm0i02aX_rms vs run
χ² / ndf 156.4 / 100
p0 1440 ± 1.038
1490
1480
1470
1460
1450
1440
1430
1420
1410
1400

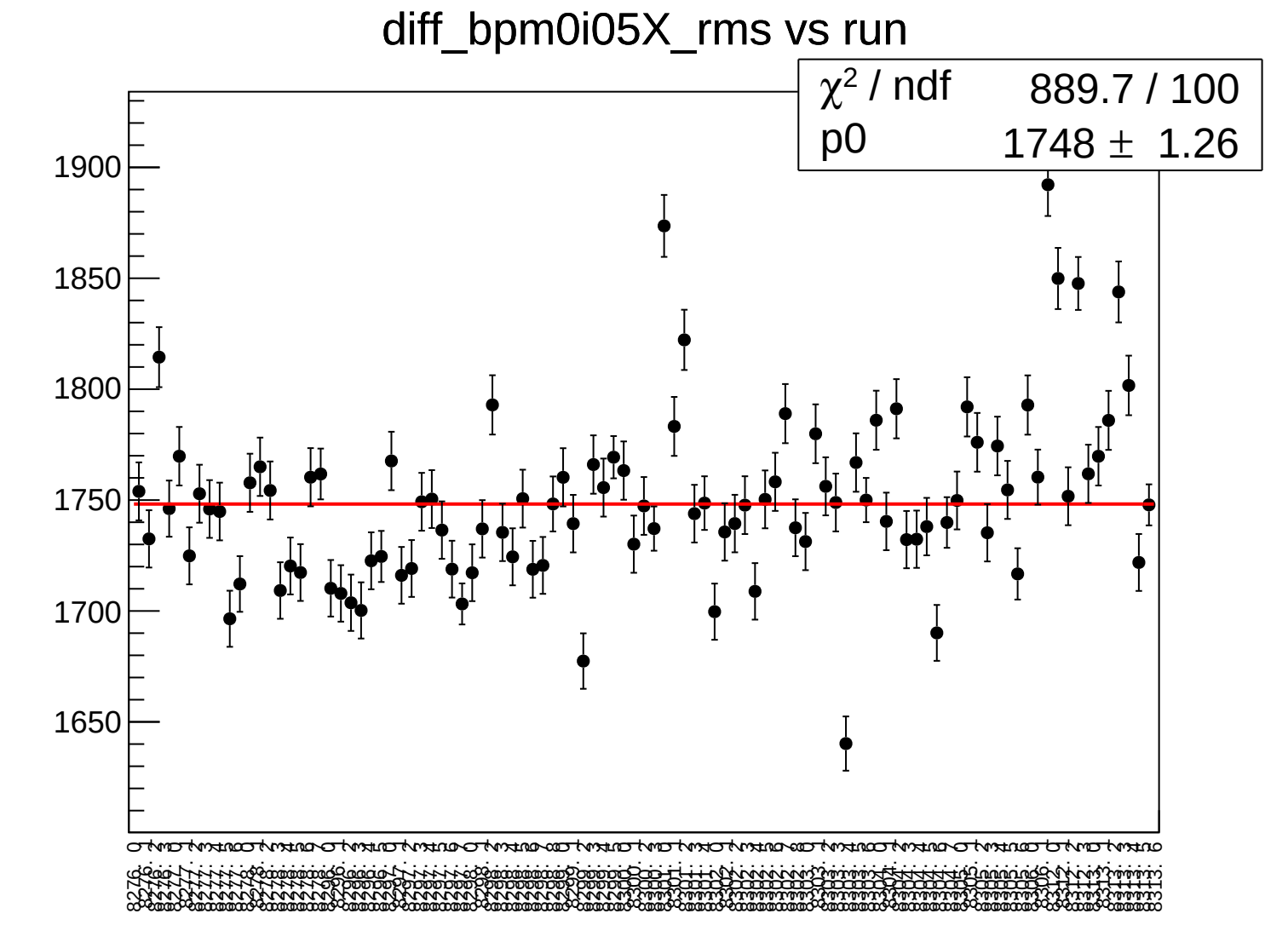

diff_bpm0i02aY_mean vs run
χ² / ndf 169.7 / 100
p0 72.27 ± 1.808
150
100
50
0
−50
pull
Entries 101
Mean −457.1
Std Dev 0
2
1
0
−1
−2
−3
−4
−5

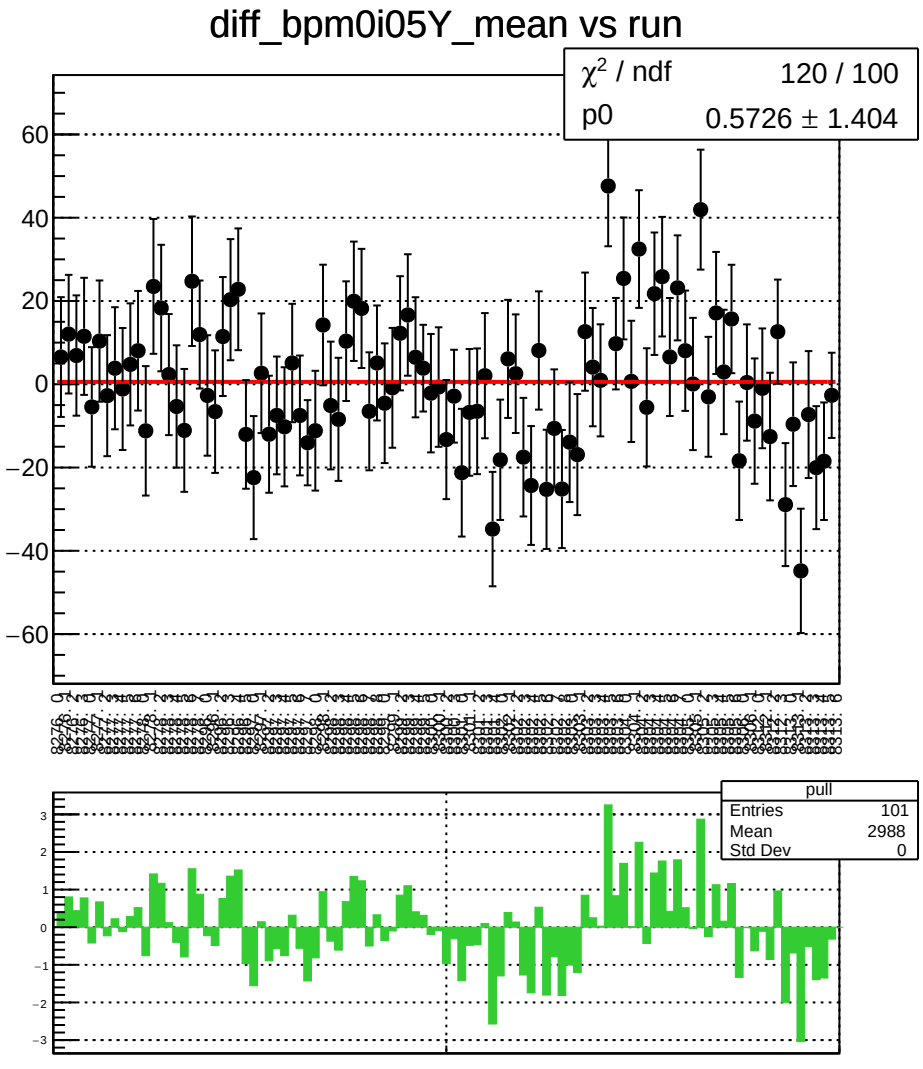

pull1D
Entries 101
Mean −0.008618
Std Dev 1.296
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

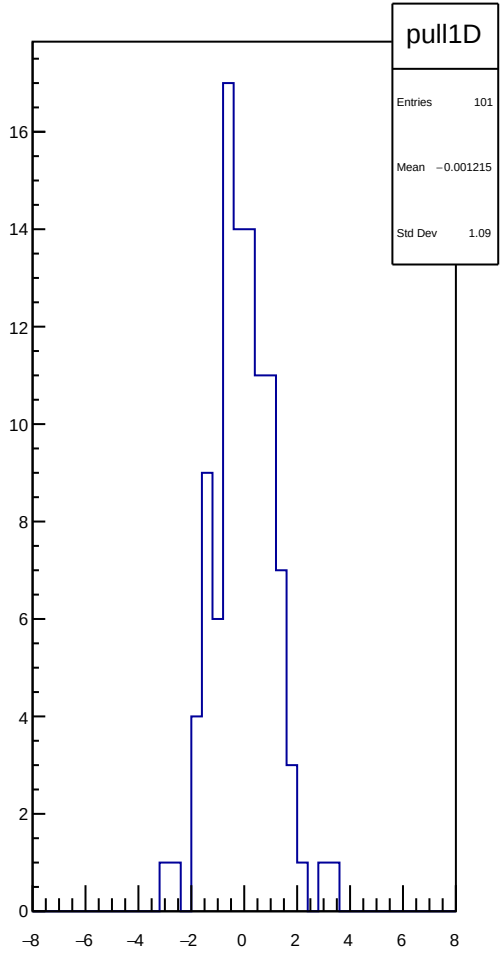

diff_bpm0i02aY_rms vs run
χ² / ndf 407 / 100
p0 1775 ± 1.279
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660
1640
1620

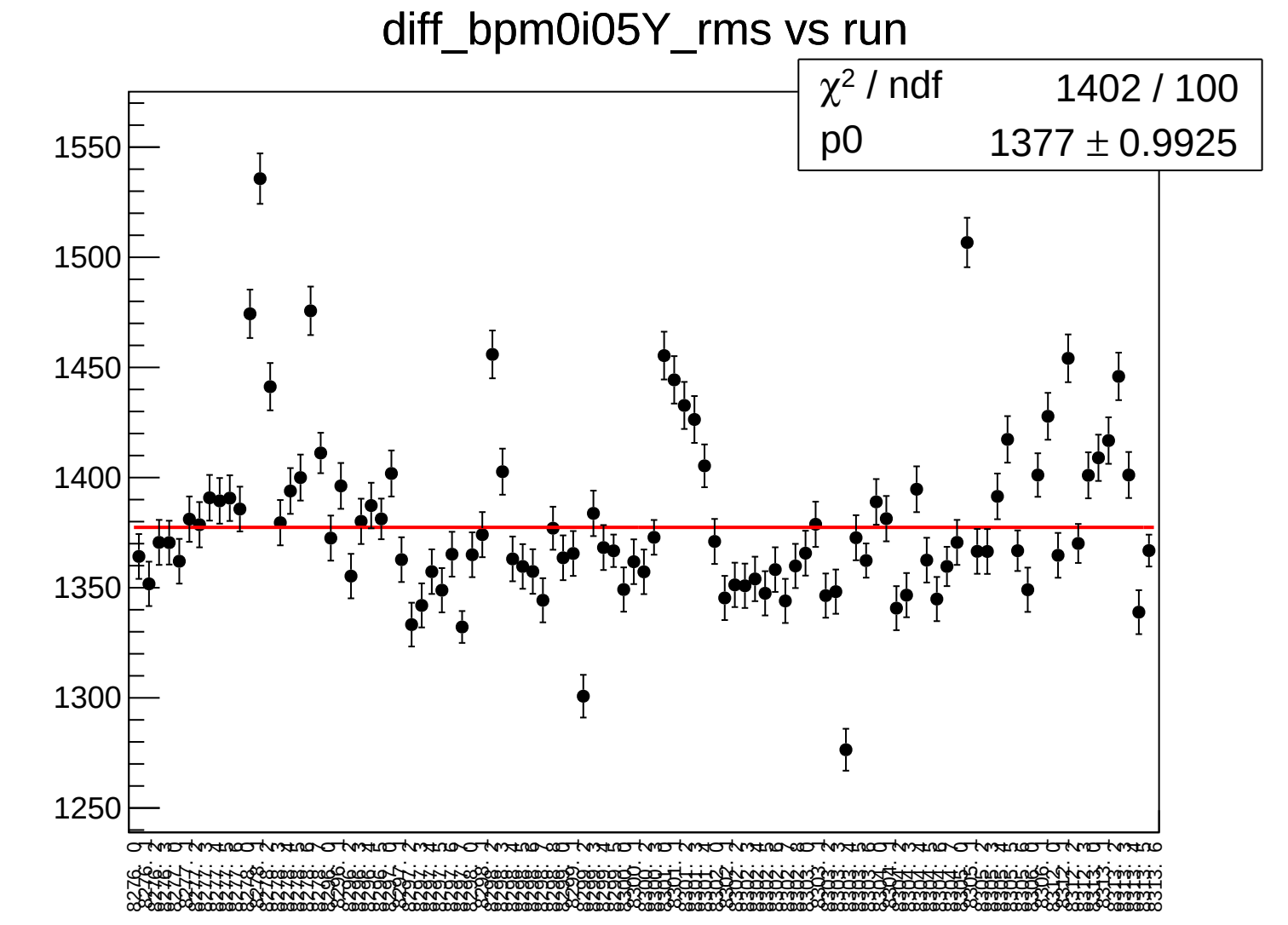

diff_bpm0i05X_mean vs run
χ² / ndf 224.1 / 100
p0 −7.852 ± 1.781
100
50
0
−50
−100
pull
Entries 101
Mean −6533
Std Dev 0
4
3
2
1
0
−1
−2
−3

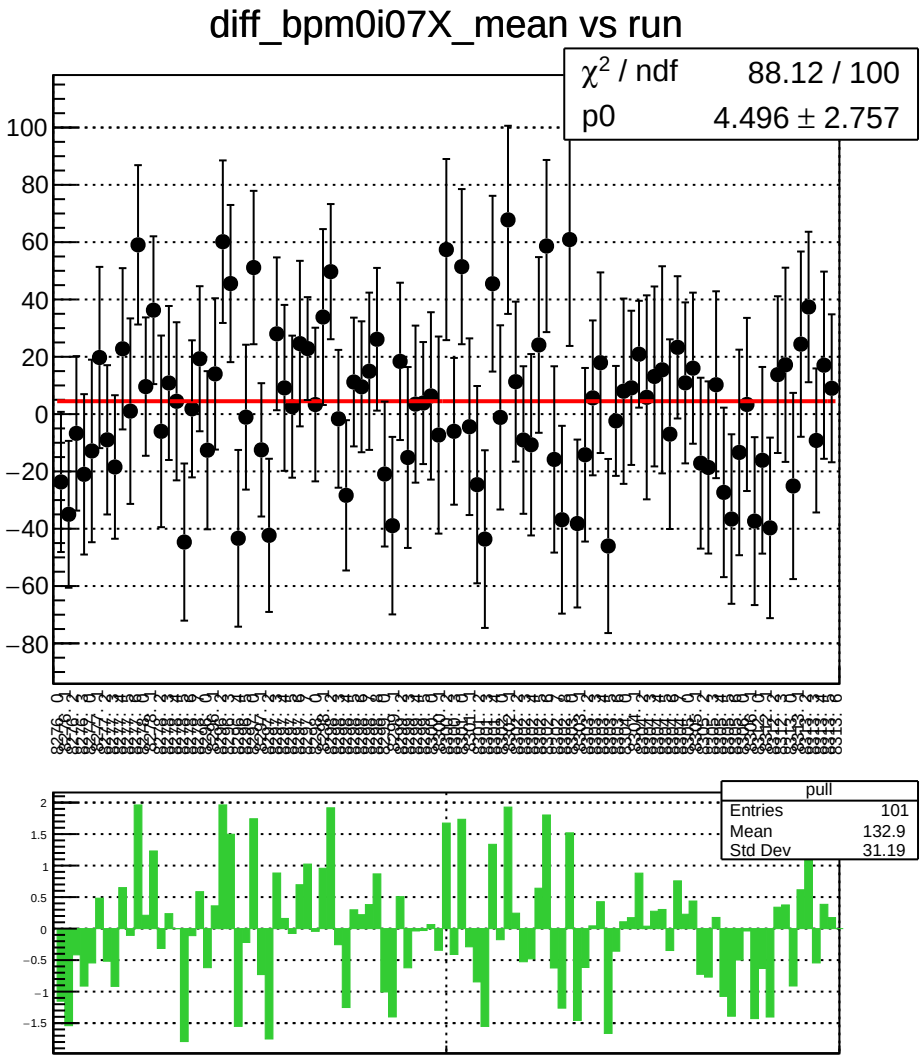

pull1D
Entries 101
Mean 0.0007554
Std Dev 1.49
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

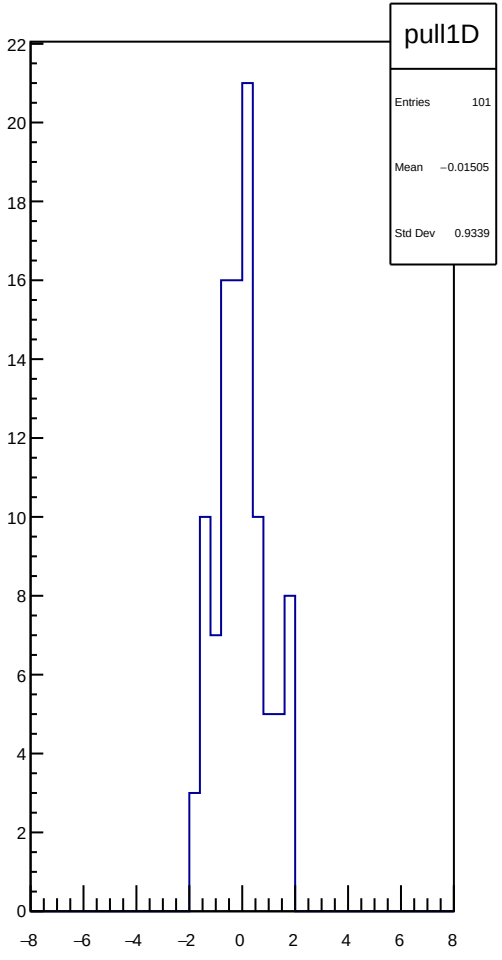

diff_bpm0i05X_rms vs run
χ² / ndf 889.7 / 100
p0 1748 ± 1.26
1900
1850
1800
1750
1700
1650

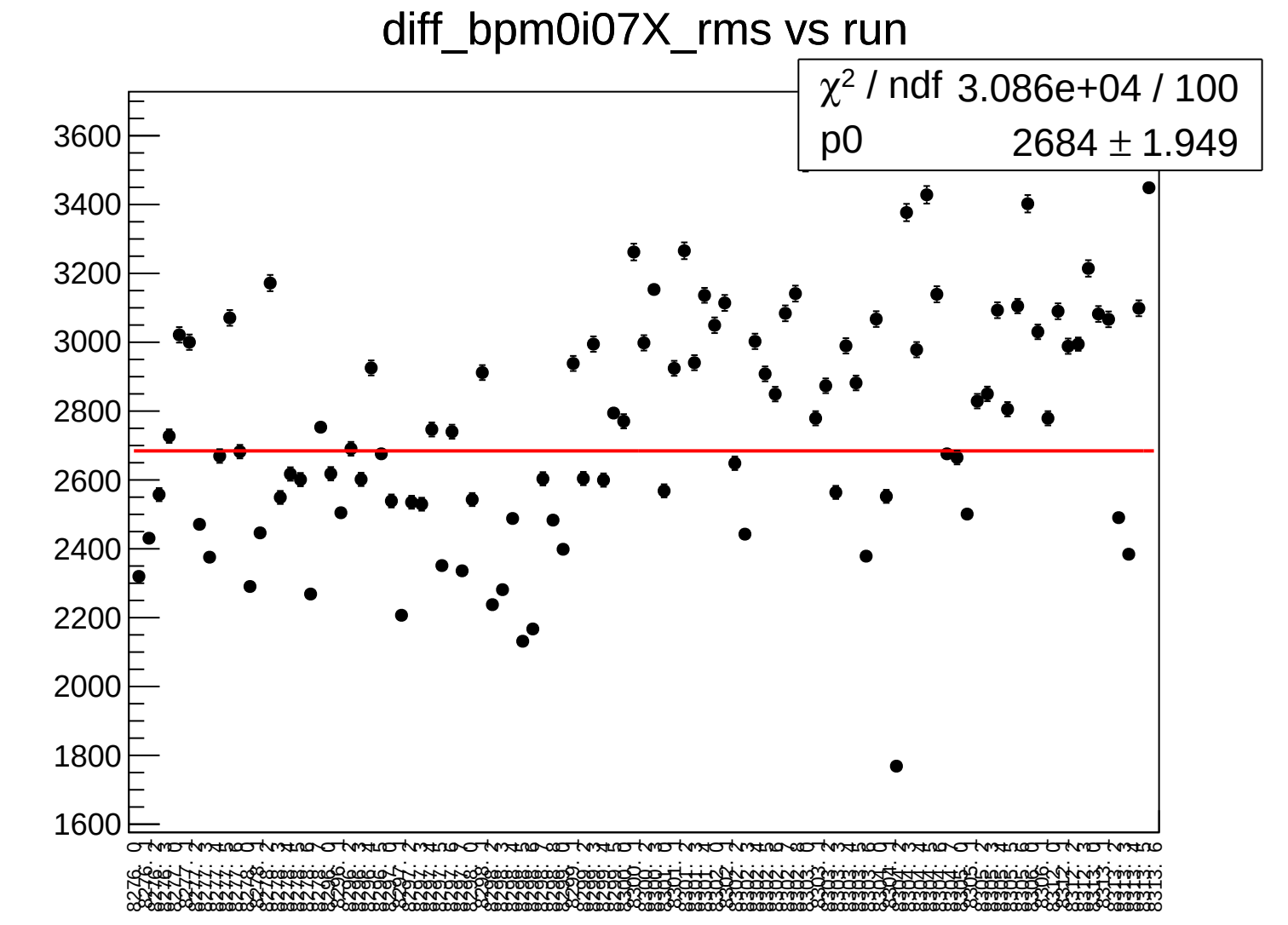

diff_bpm0i05Y_mean vs run
χ² / ndf 120 / 100
p0 0.5726 ± 1.404
pull
Entries 101
Mean 2988
Std Dev 0

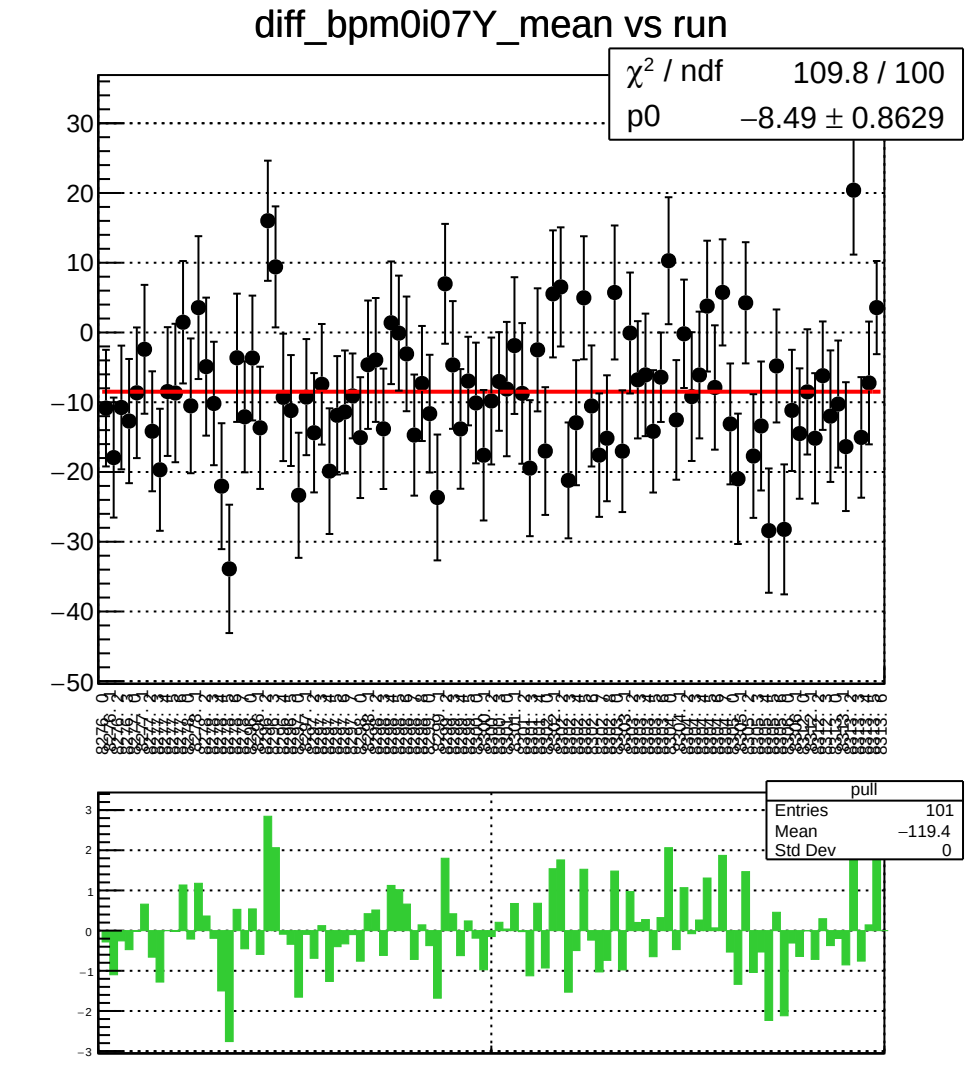

pull1D
Entries 101
Mean −0.001215
Std Dev 1.09

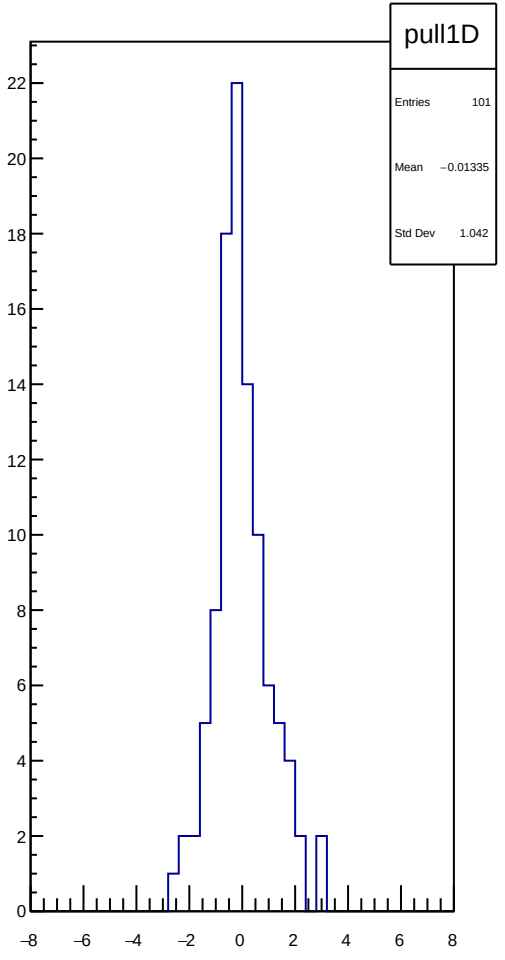

diff_bpm0i05Y_rms vs run
χ² / ndf 1402 / 100
p0 1377 ± 0.9925
1550
1500
1450
1400
1350
1300
1250

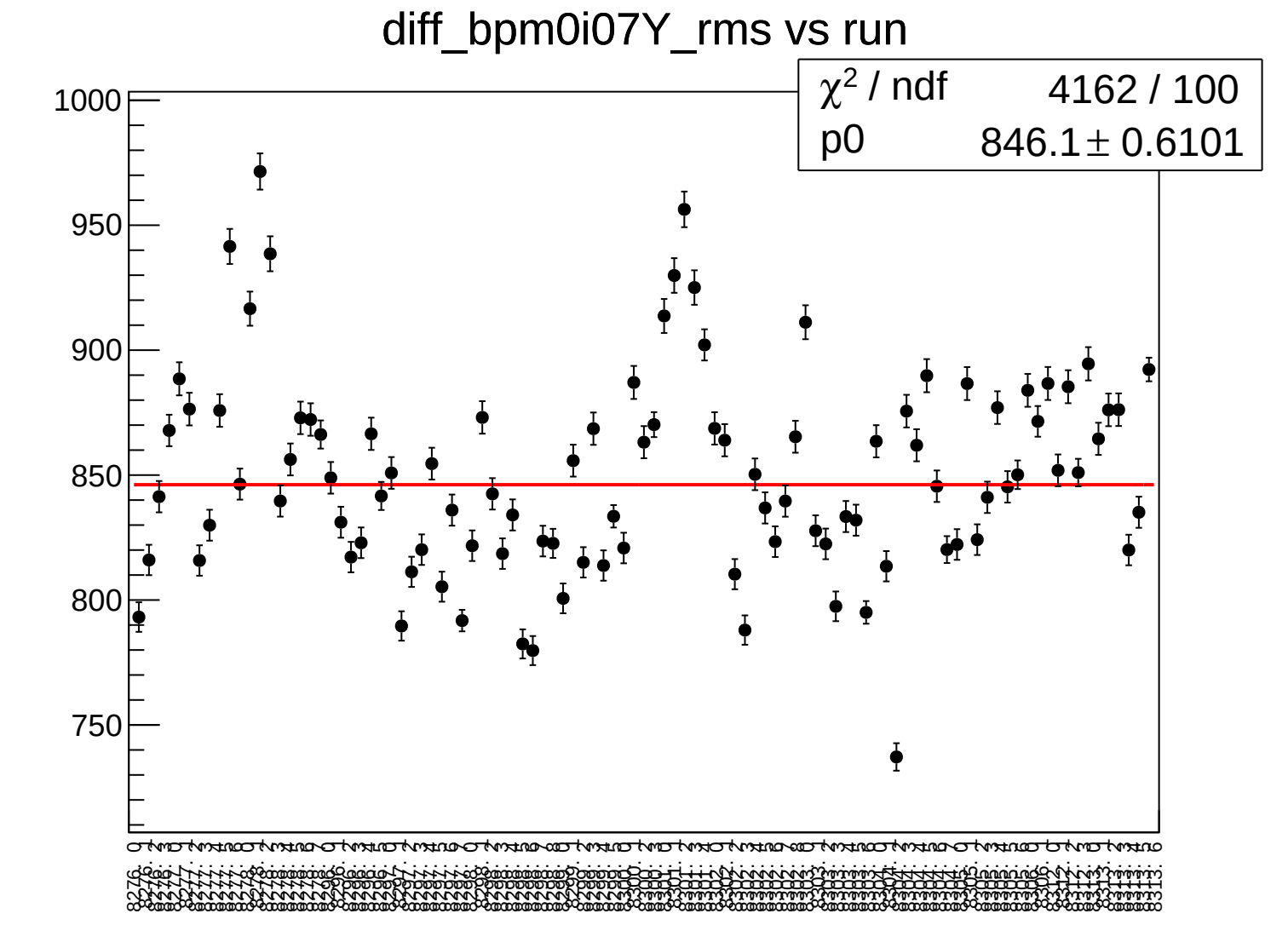

diff_bpm0i07X_mean vs run
χ² / ndf 88.12 / 100
p0 4.496 ± 2.757
pull
Entries 101
Mean 132.9
Std Dev 31.19

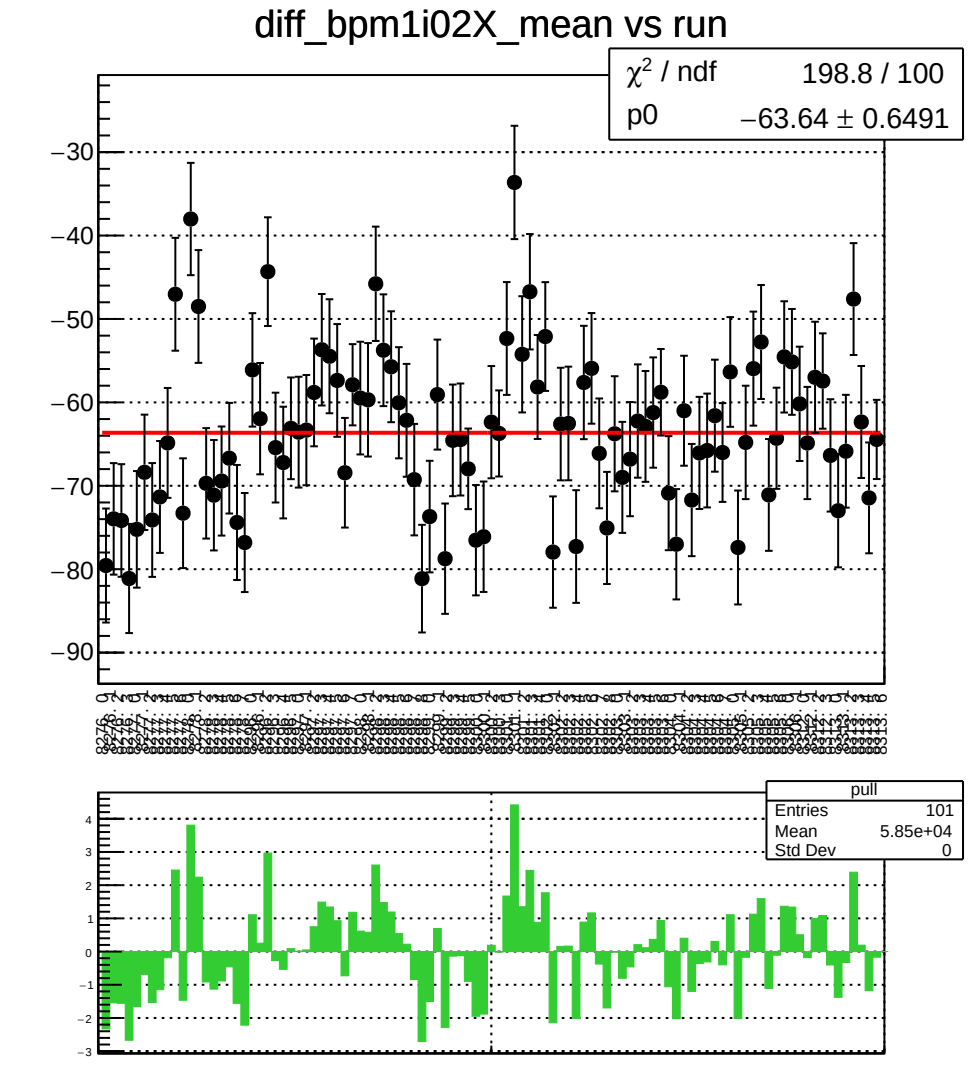

pull1D
Entries 101
Mean −0.01505
Std Dev 0.9339

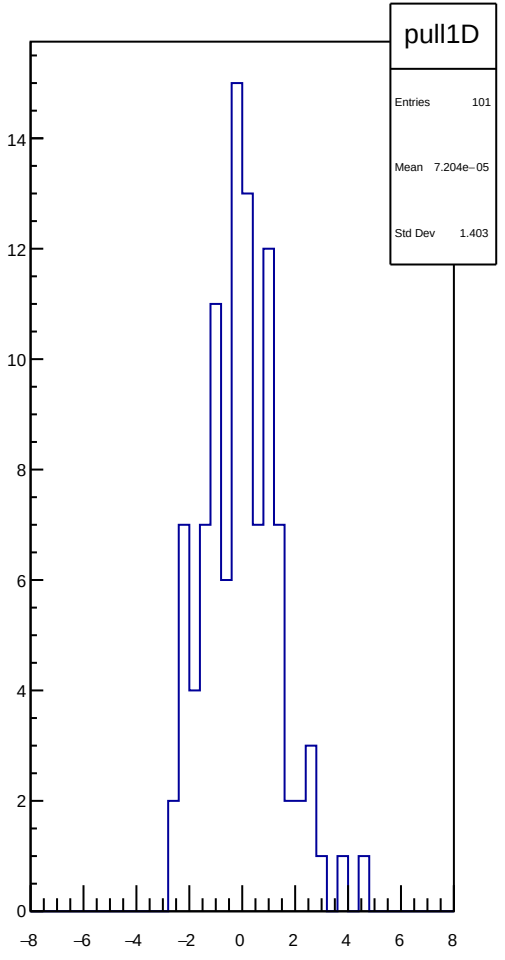

diff_bpm0i07X_rms vs run
χ² / ndf 3.086e+04 / 100
p0 2684 ± 1.949
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600

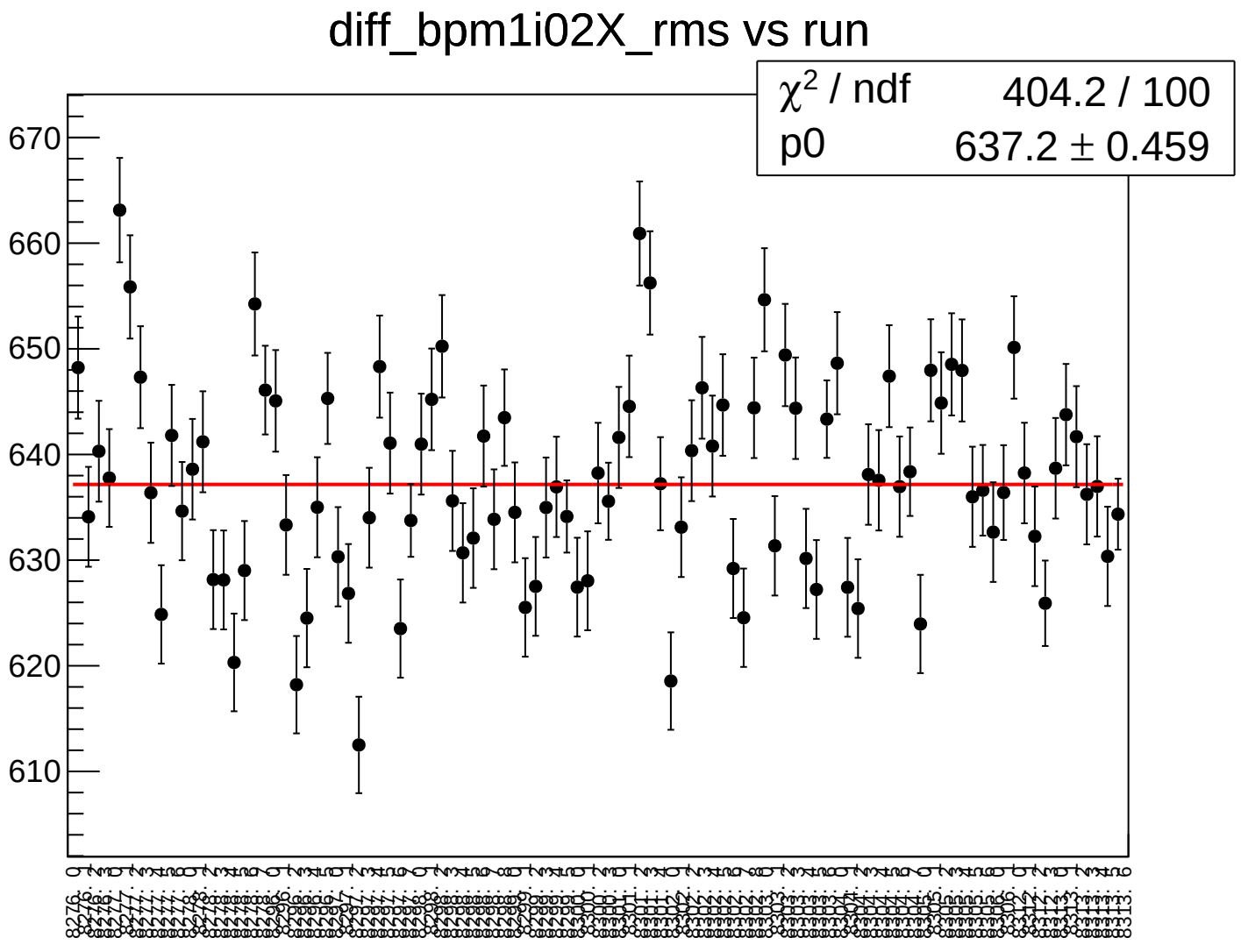

diff_bpm0i07Y_mean vs run
χ² / ndf 109.8 / 100
p0 −8.49 ± 0.8629
pull
Entries 101
Mean −119.4
Std Dev 0

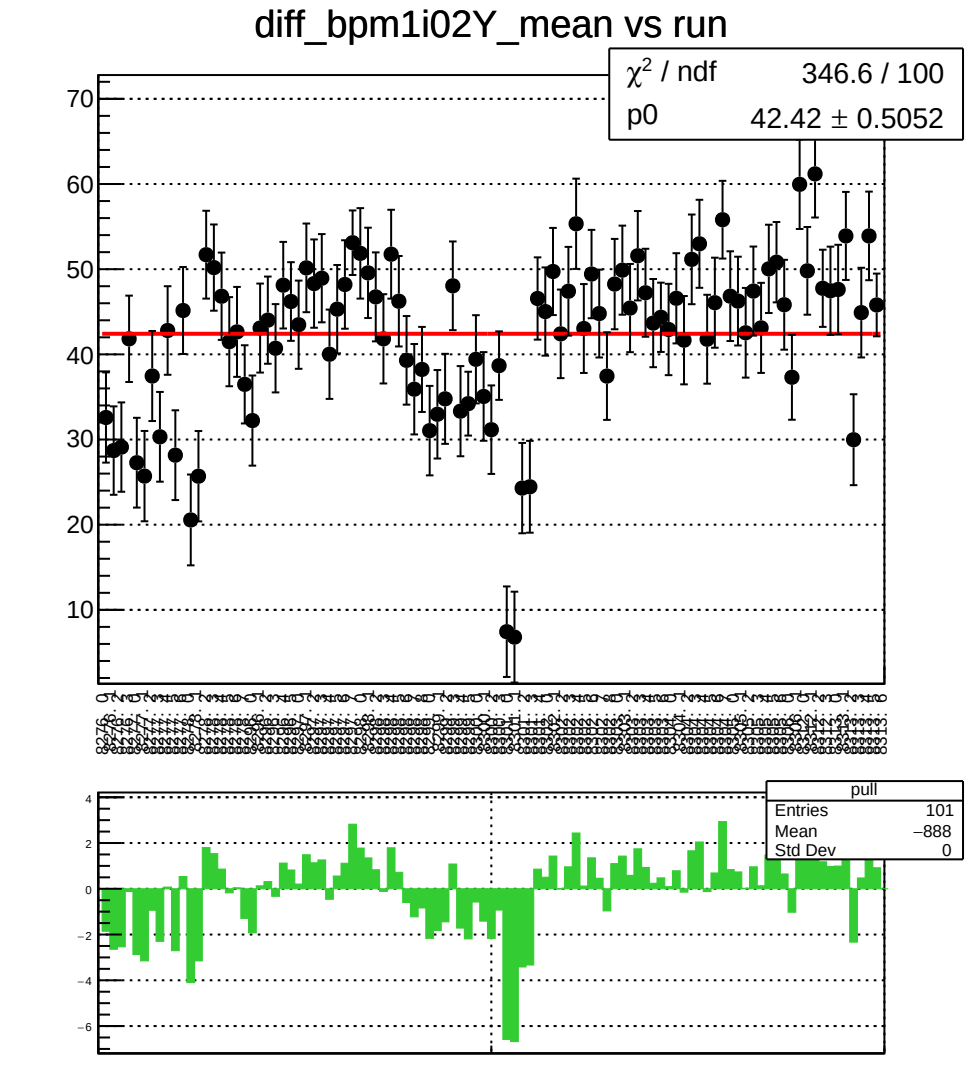

pull1D
Entries 101
Mean −0.01335
Std Dev 1.042

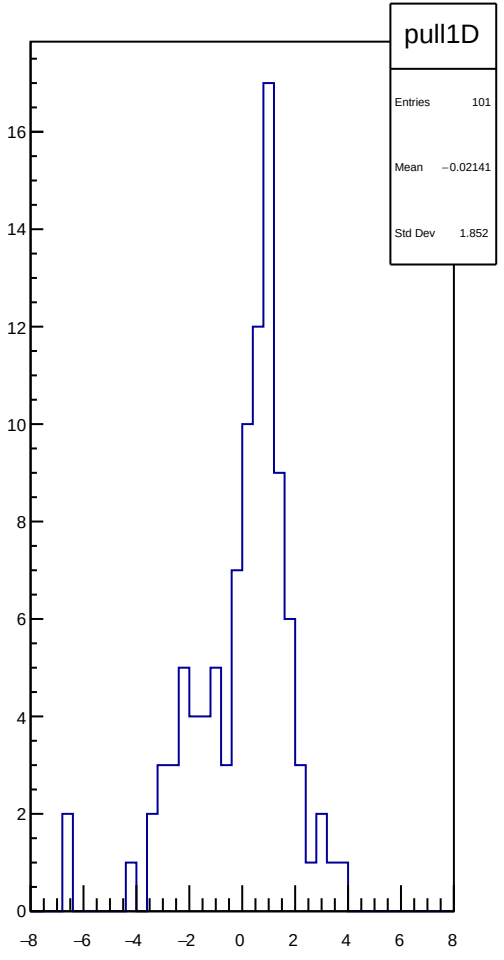

diff_bpm0i07Y_rms vs run
χ² / ndf 4162 / 100
p0 846.1 ± 0.6101
1000
950
900
850
800
750

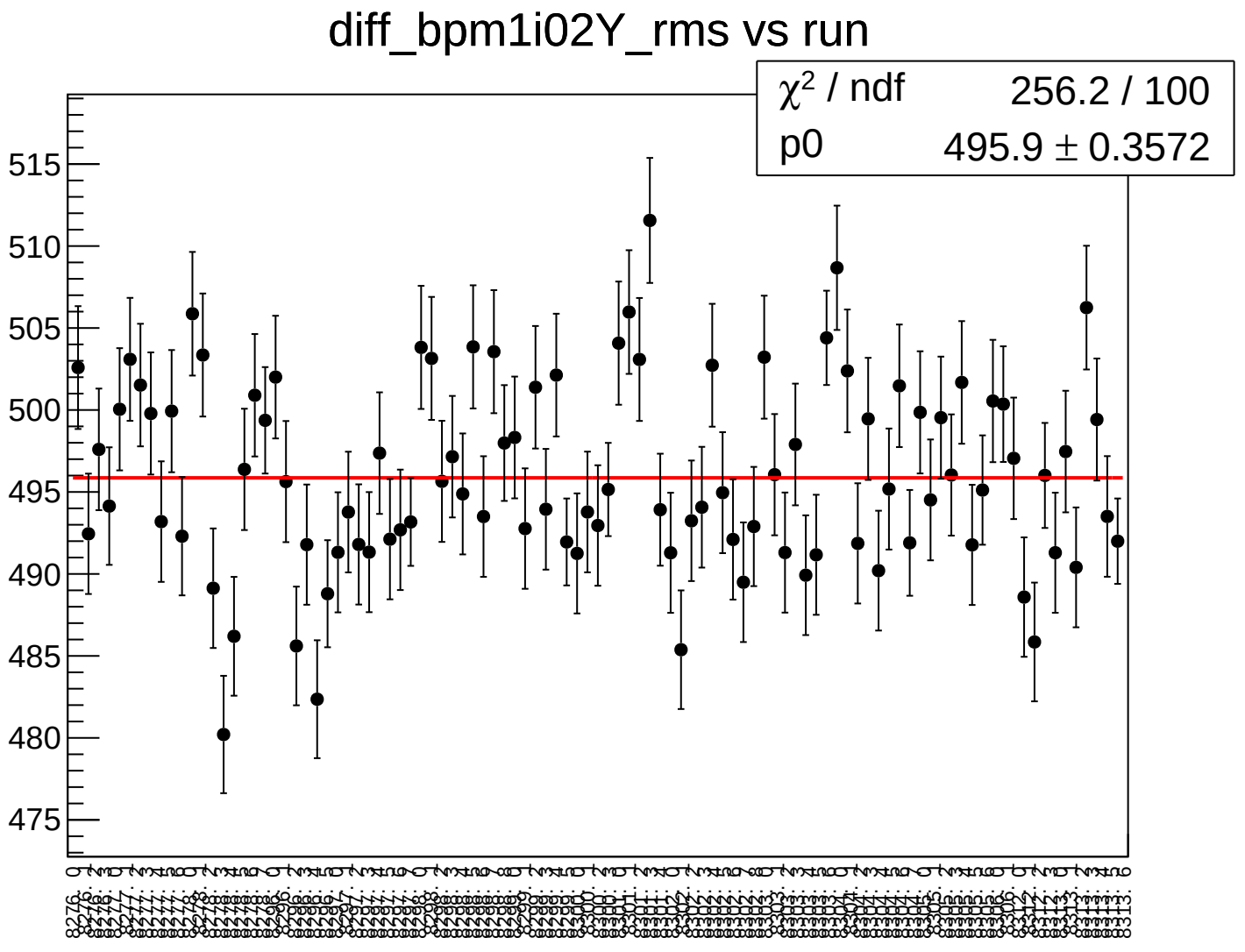

diff_bpm1i02X_mean vs run
χ² / ndf 198.8 / 100
p0 −63.64 ± 0.6491
pull
Entries 101
Mean 5.85e+04
Std Dev 0

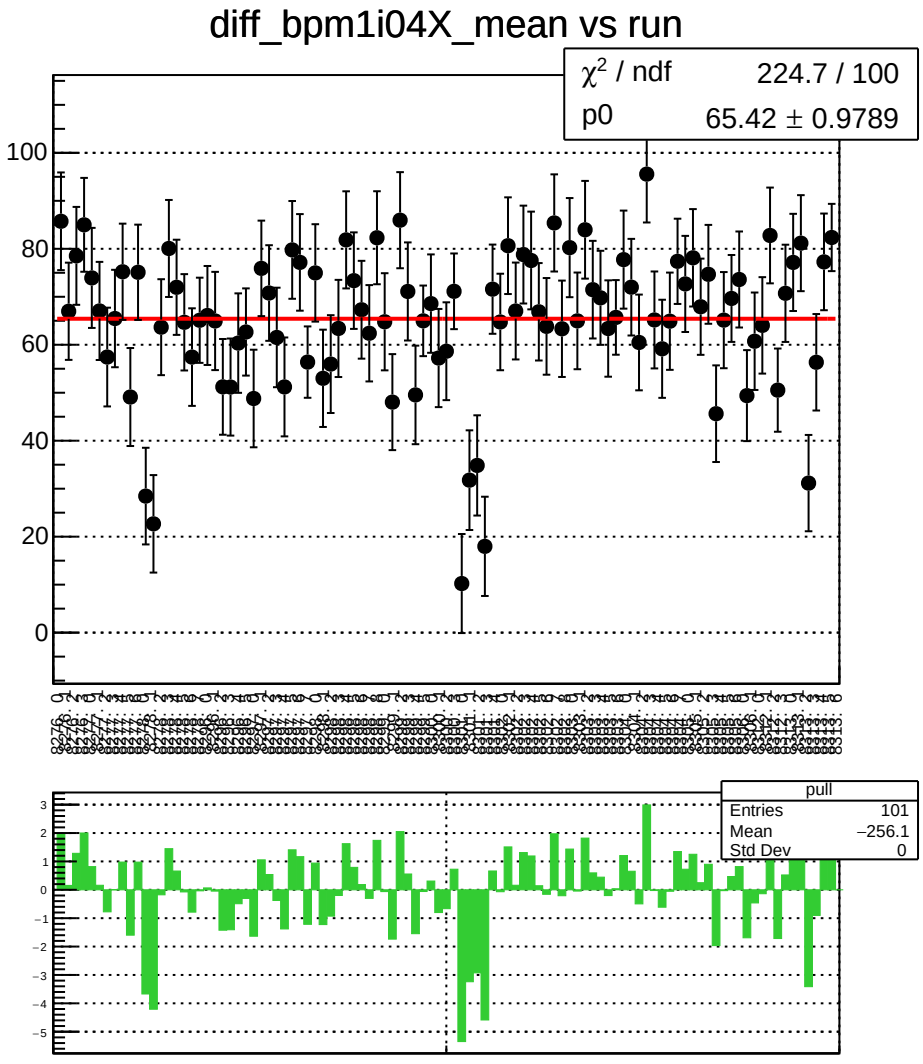

pull1D
Entries 101
Mean 7.204e−05
Std Dev 1.403

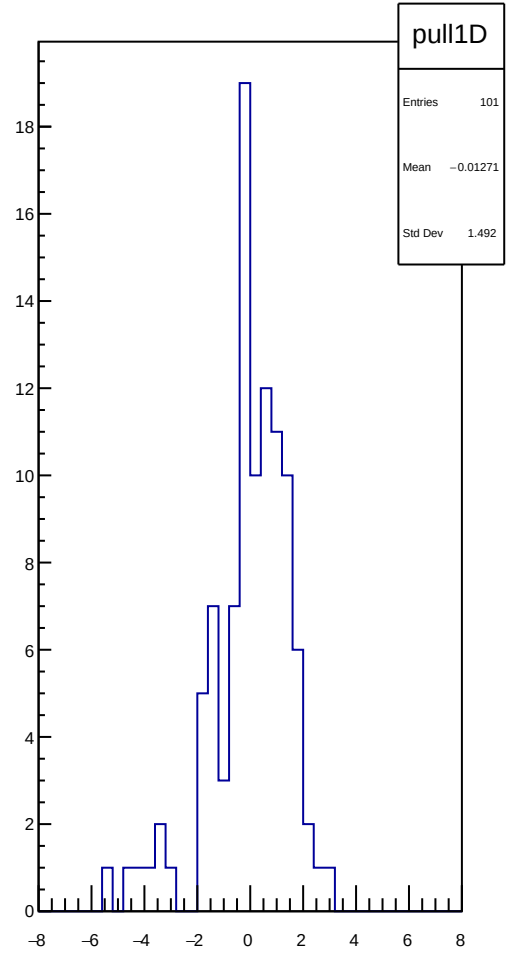

diff_bpm1i02X_rms vs run
χ² / ndf 404.2 / 100
p0 637.2 ± 0.459
670
660
650
640
630
620
610

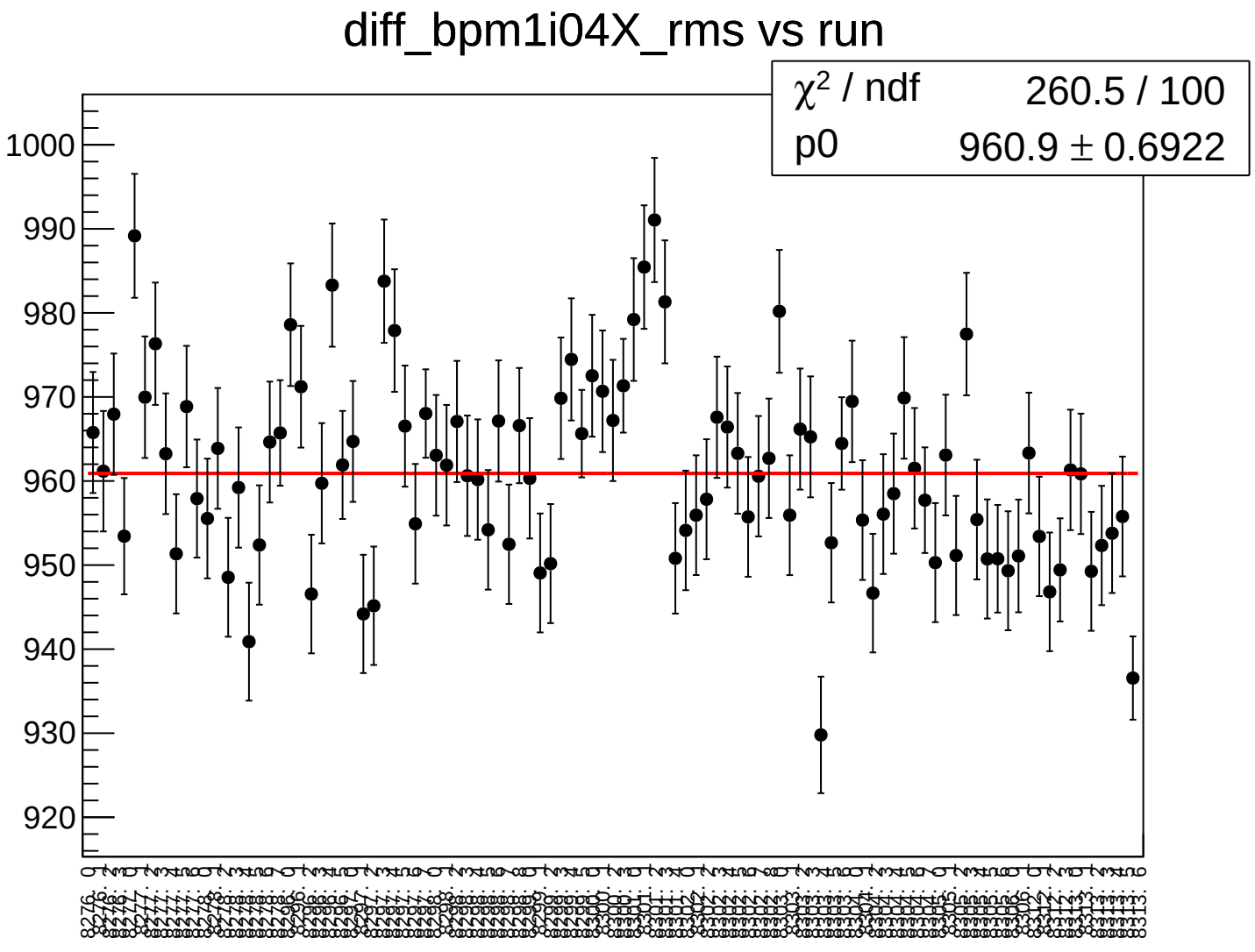

diff_bpm1i02Y_mean vs run
χ² / ndf 346.6 / 100
p0 42.42 ± 0.5052
pull
Entries 101
Mean −888
Std Dev 0

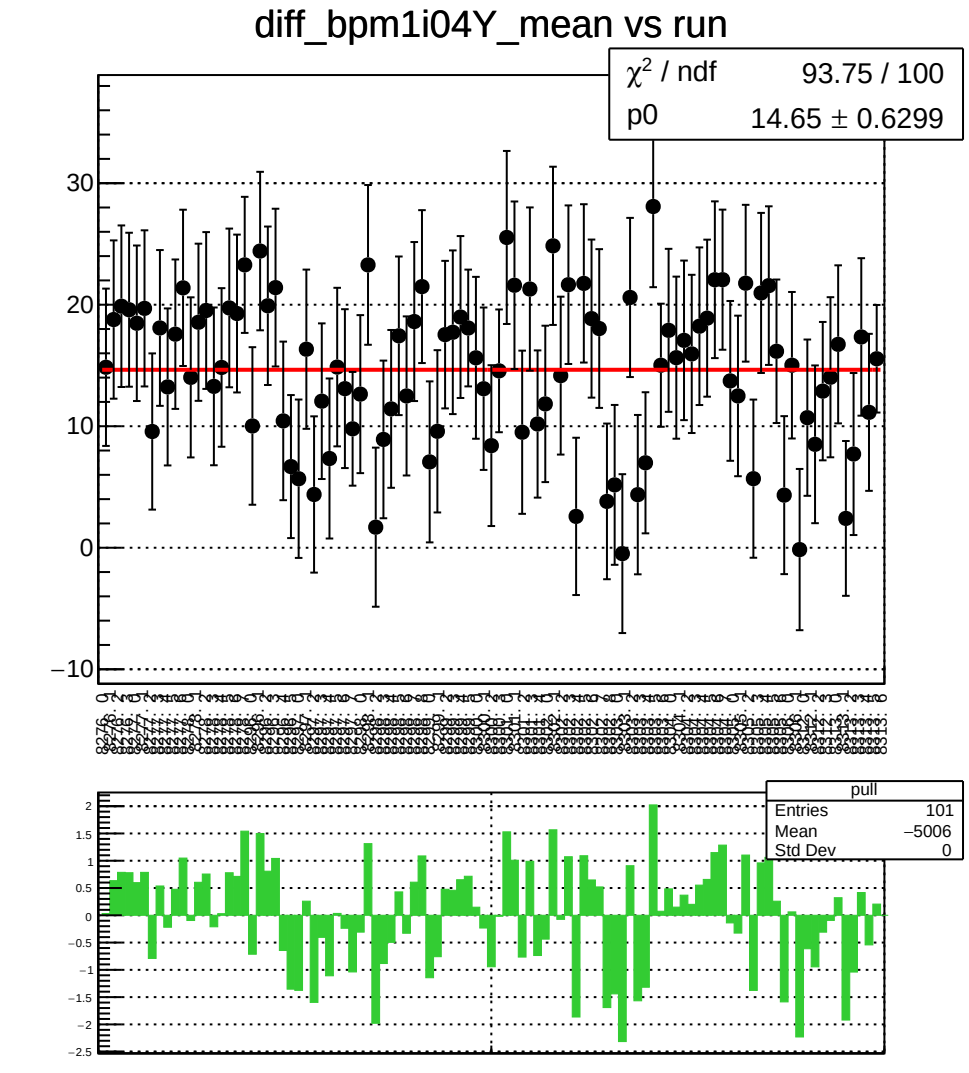

pull1D
Entries 101
Mean −0.02141
Std Dev 1.852

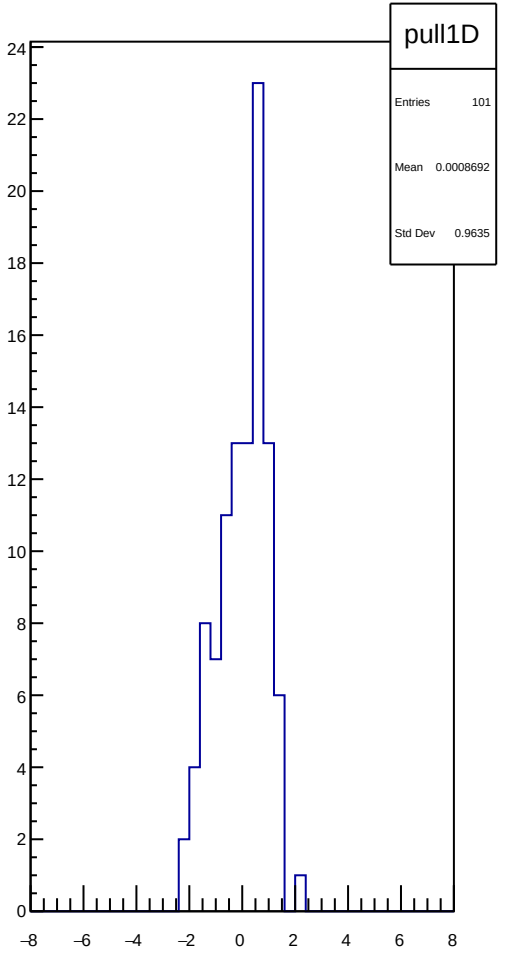

diff_bpm1i02Y_rms vs run
χ² / ndf 256.2 / 100
p0 495.9 ± 0.3572
515
510
505
500
495
490
485
480
475

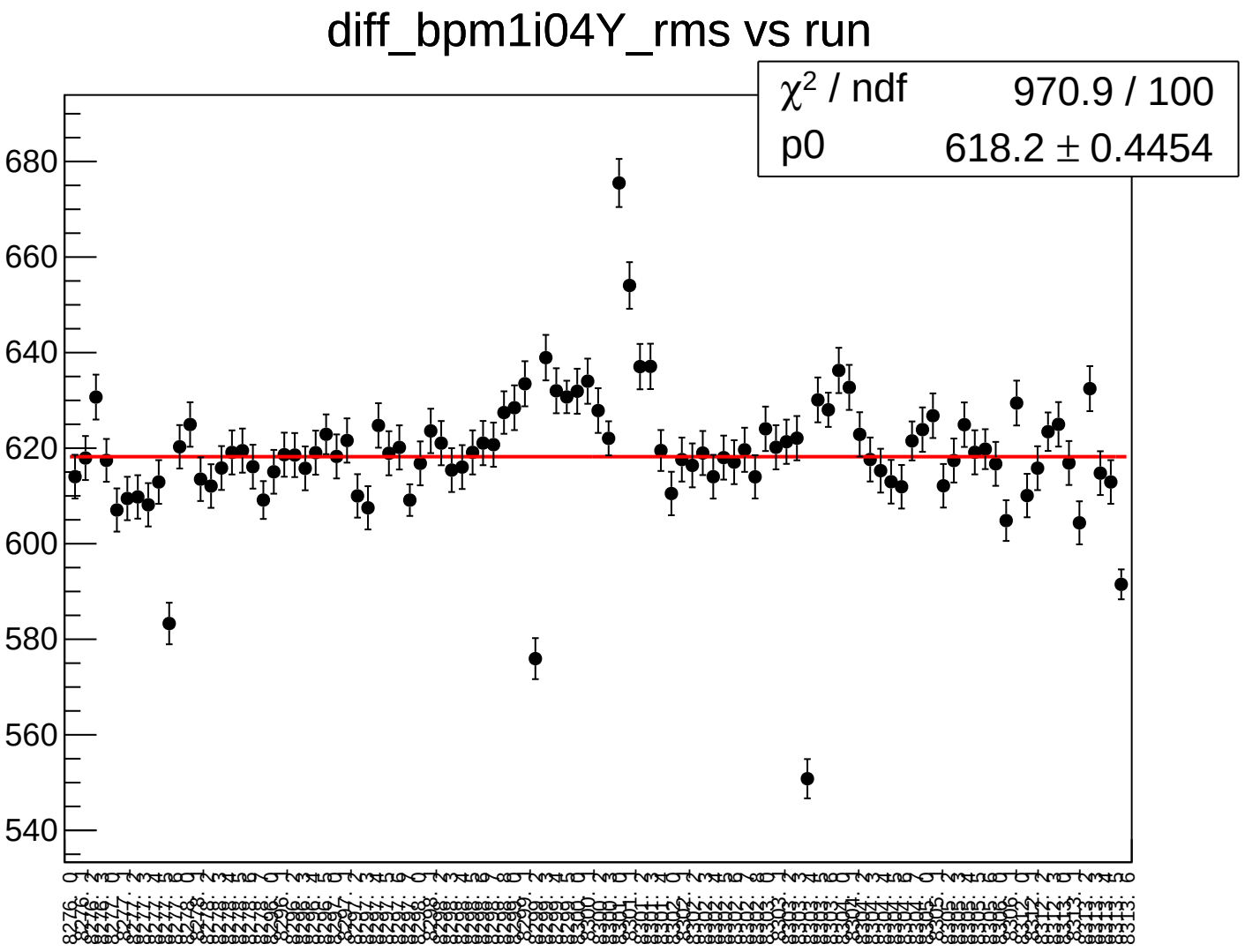

diff_bpm1i04X_mean vs run
χ² / ndf 224.7 / 100
p0 65.42 ± 0.9789
pull
Entries 101
Mean −256.1
Std Dev 0

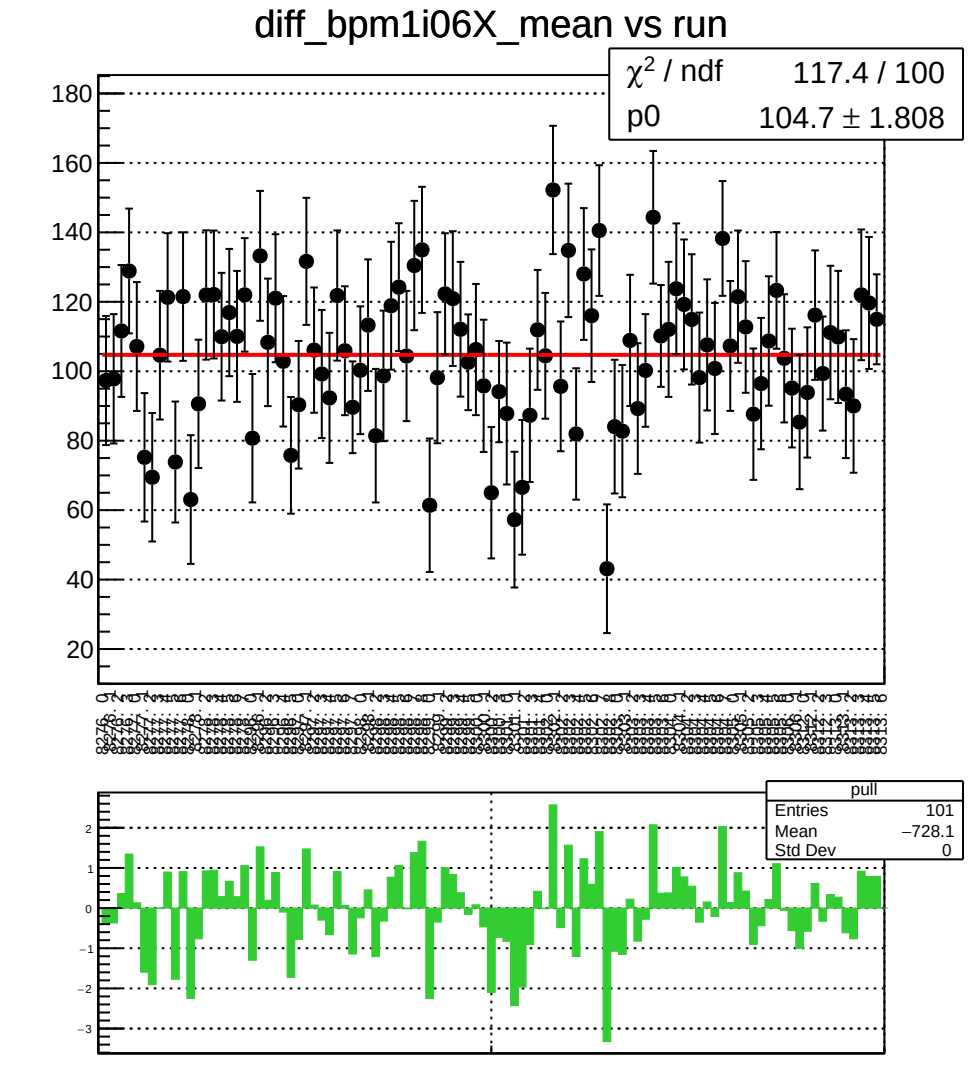

pull1D
Entries 101
Mean −0.01271
Std Dev 1.492

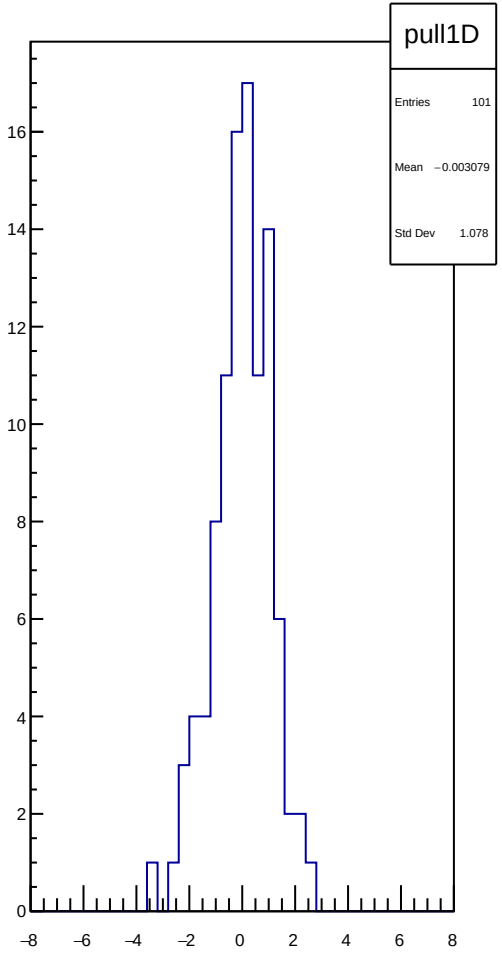

diff_bpm1i04X_rms vs run
χ² / ndf 260.5 / 100
p0 960.9 ± 0.6922
1000
990
980
970
960
950
940
930
920

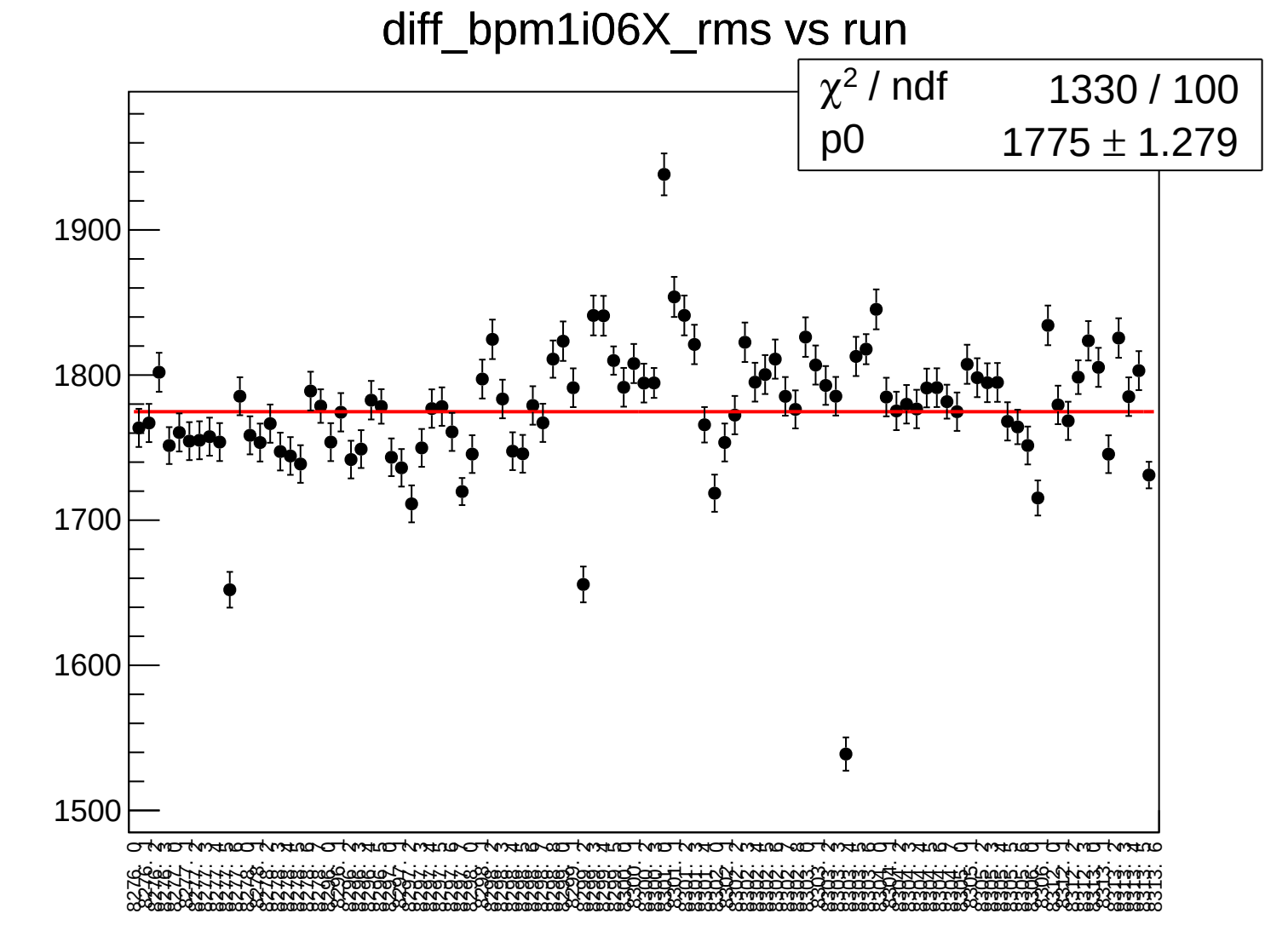

diff_bpm1i04Y_mean vs run
χ² / ndf 93.75 / 100
p0 14.65 ± 0.6299
pull
Entries 101
Mean −5006
Std Dev 0

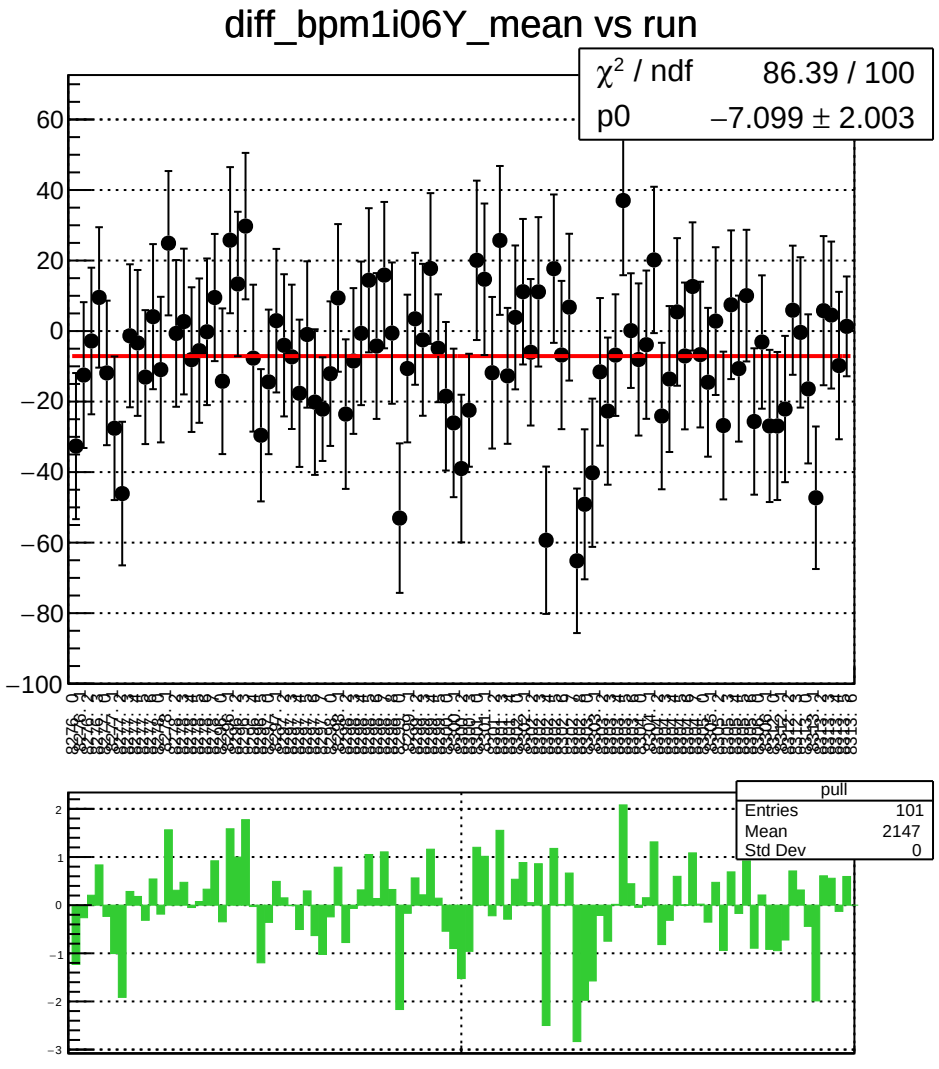

pull1D
Entries 101
Mean 0.0008692
Std Dev 0.9635

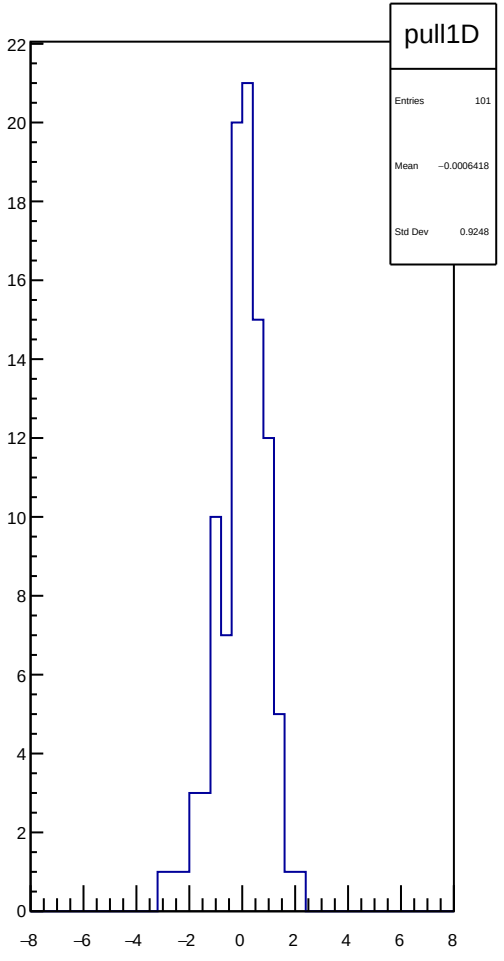

diff_bpm1i04Y_rms vs run
χ² / ndf 970.9 / 100
p0 618.2 ± 0.4454
680
660
640
620
600
580
560
540

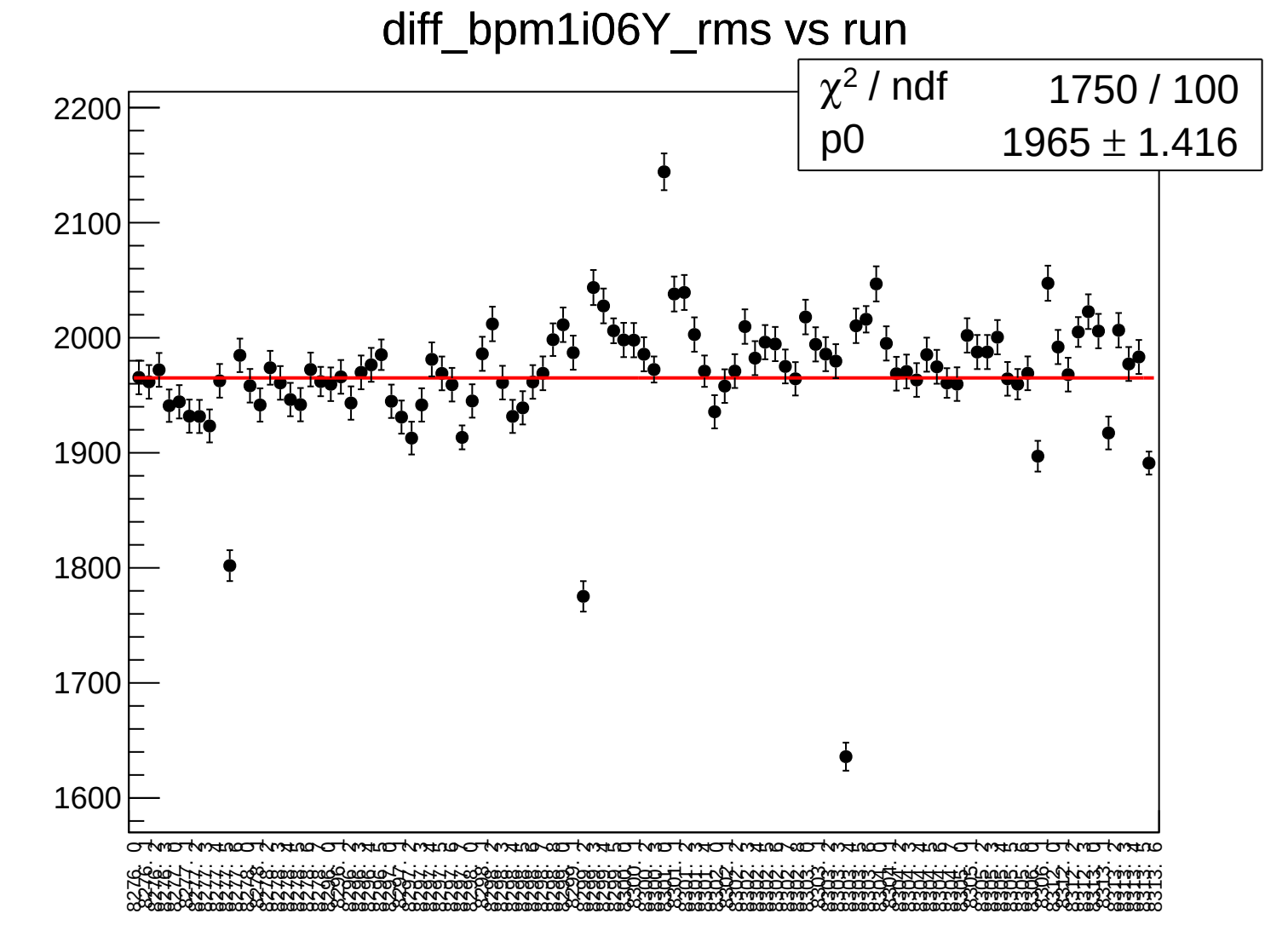

diff_bpm1i06X_mean vs run
χ^2 / ndf 117.4 / 100
p0 104.7 ± 1.808
pull
Entries 101
Mean −728.1
Std Dev 0

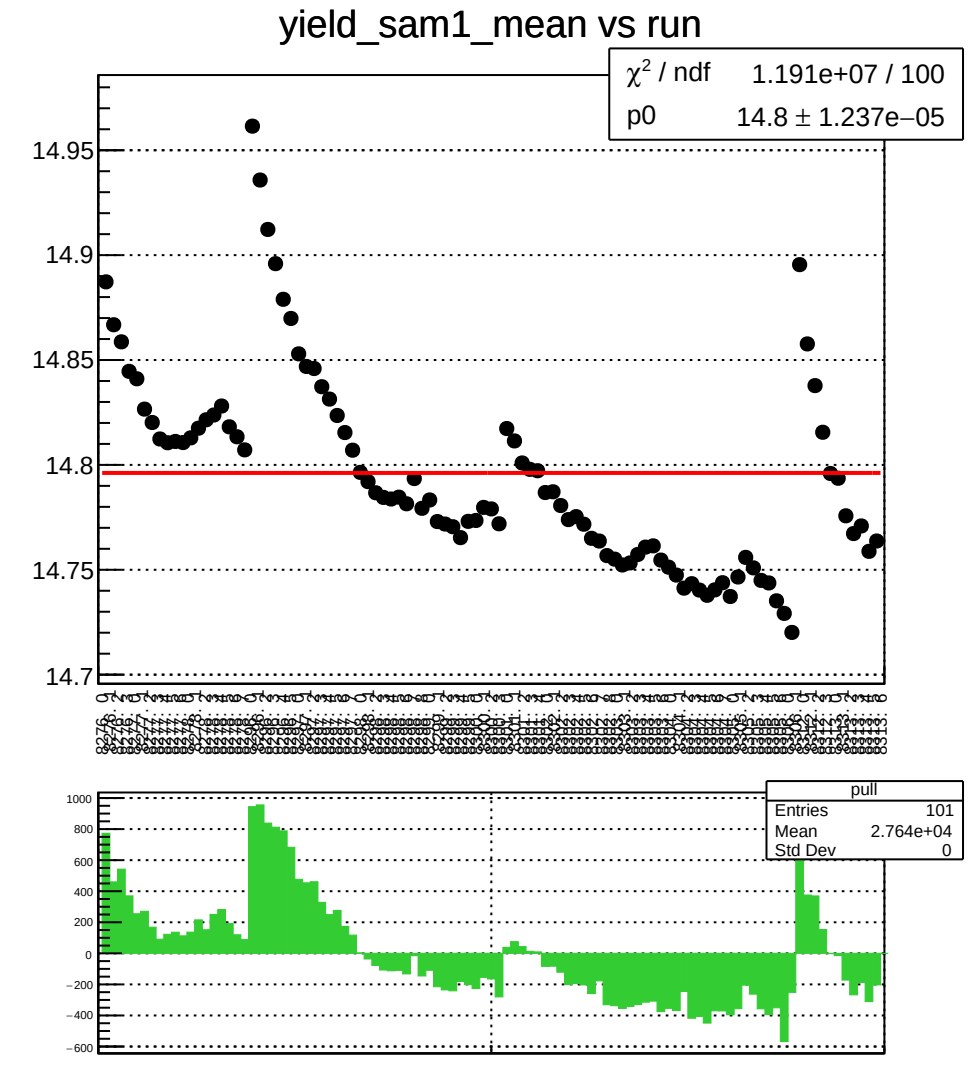

pull1D
Entries 101
Mean −0.003079
Std Dev 1.078

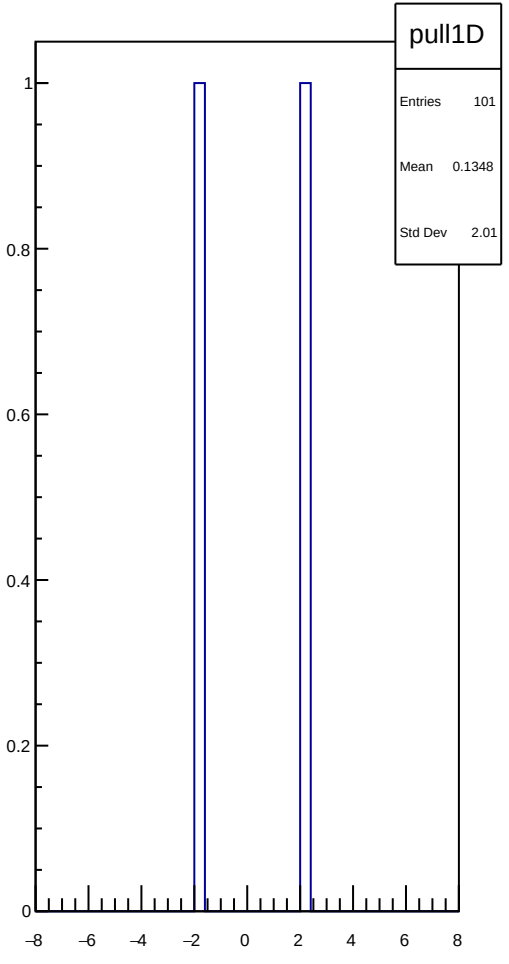

diff_bpm1i06X_rms vs run
χ² / ndf 1330 / 100
p0 1775 ± 1.279
1900
1800
1700
1600
1500

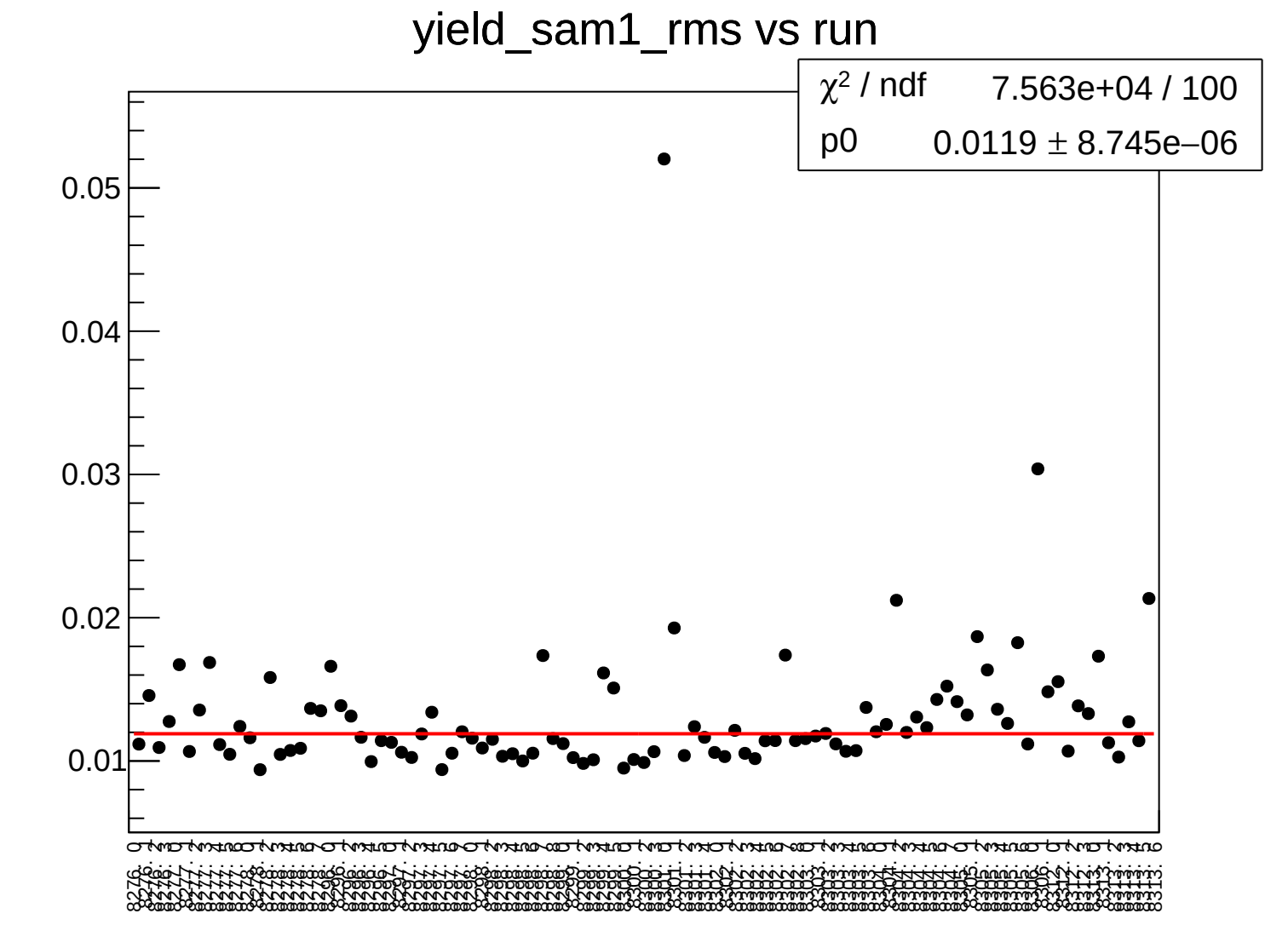

diff_bpm1i06Y_mean vs run
χ² / ndf 86.39 / 100
p0 −7.099 ± 2.003
pull
Entries 101
Mean 2147
Std Dev 0

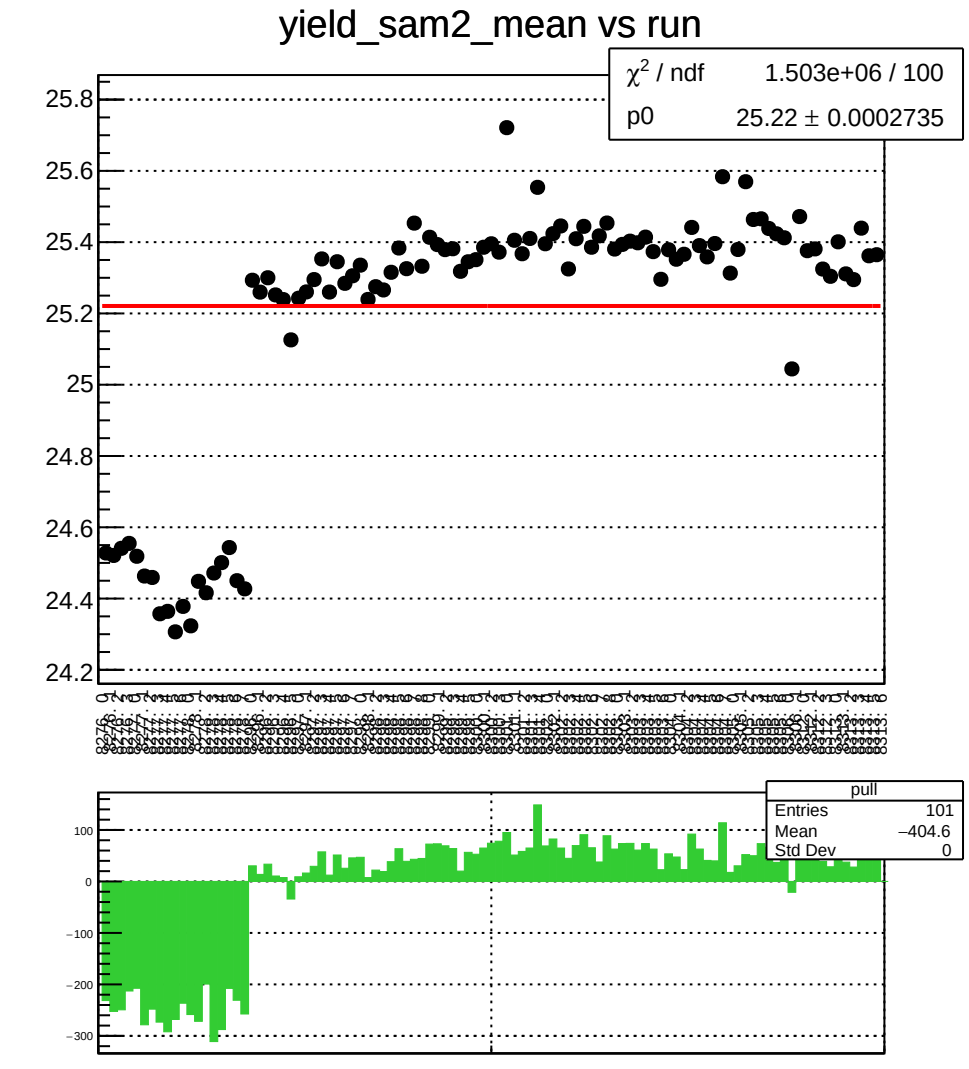

pull1D
Entries 101
Mean −0.0006418
Std Dev 0.9248

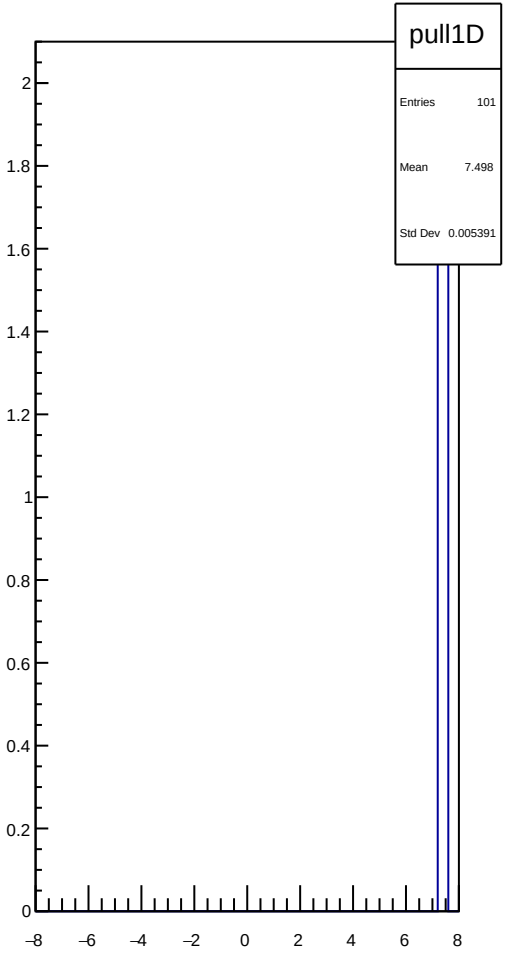

diff_bpm1i06Y_rms vs run
χ² / ndf 1750 / 100
p0 1965 ± 1.416
2200
2100
2000
1900
1800
1700
1600

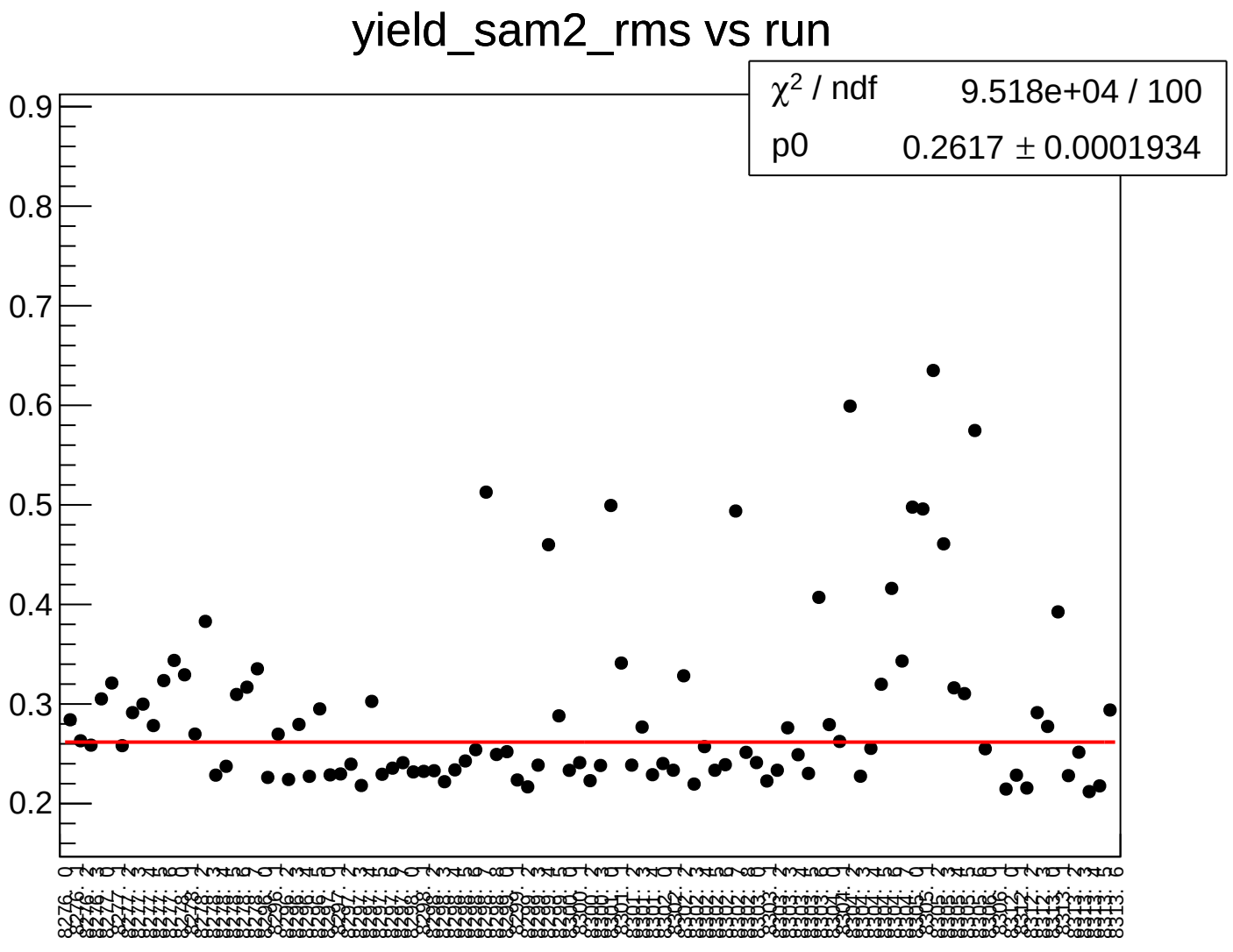

yield_sam1_mean vs run
χ² / ndf 1.191e+07 / 100
p0 14.8 ± 1.237e−05
14.95
14.9
14.85
14.8
14.75
14.7
pull
Entries 101
Mean 2.764e+04
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600

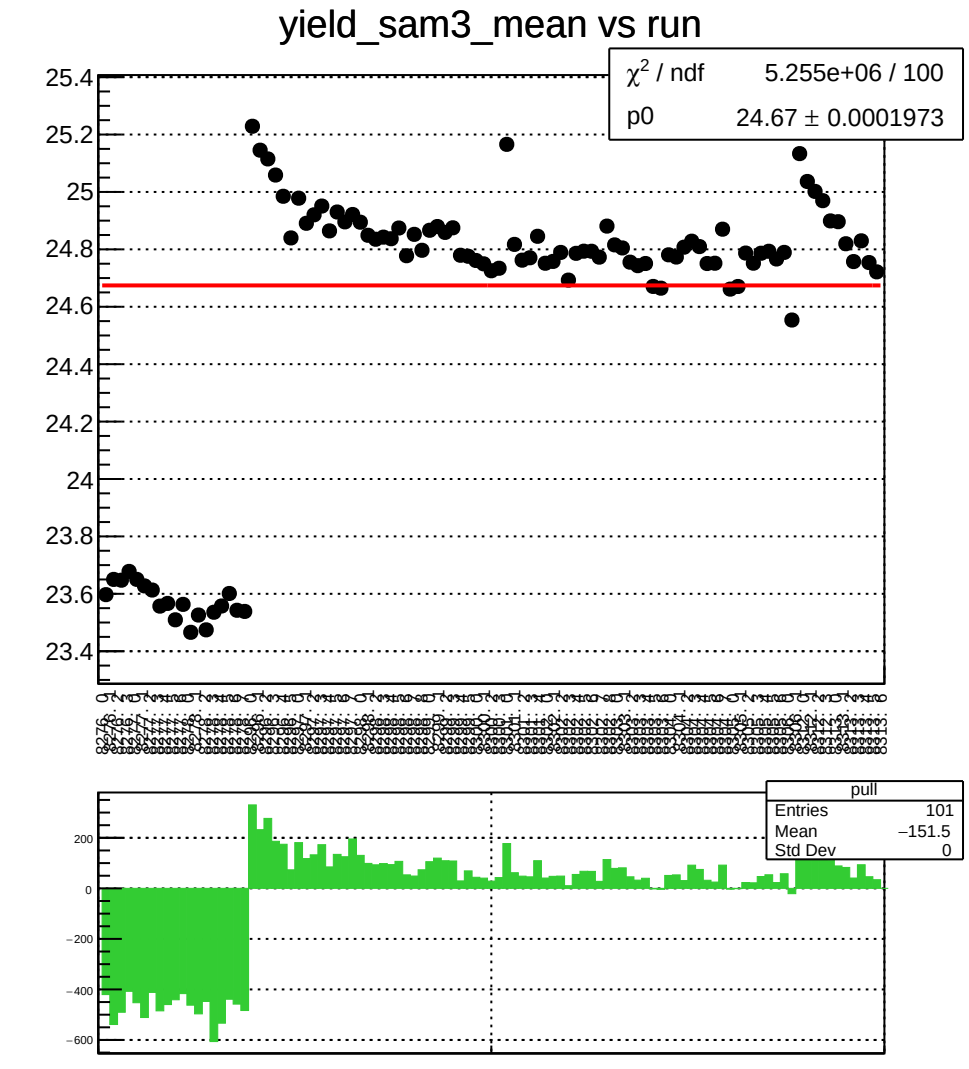

pull1D
Entries 101
Mean 0.1348
Std Dev 2.01
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

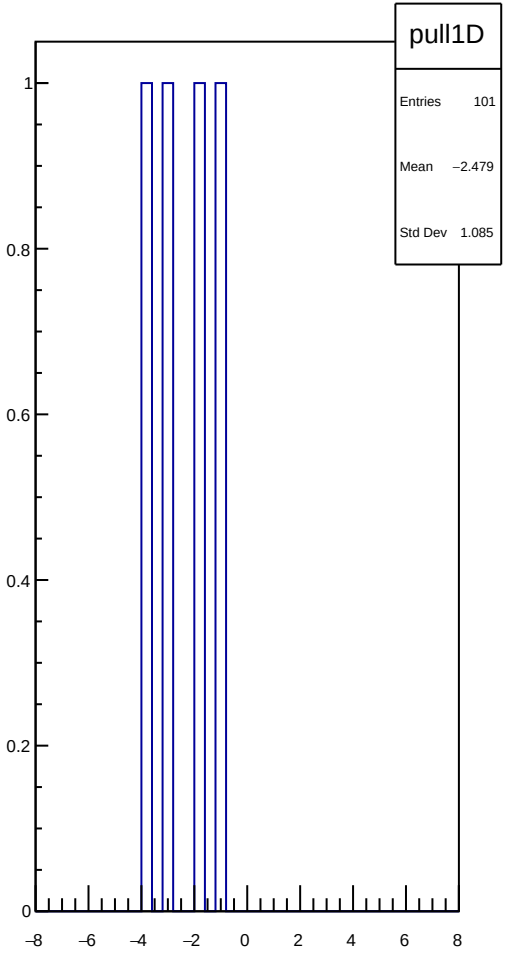

yield_sam1_rms vs run
χ² / ndf 7.563e+04 / 100
p0 0.0119 ± 8.745e−06
0.05
0.04
0.03
0.02
0.01

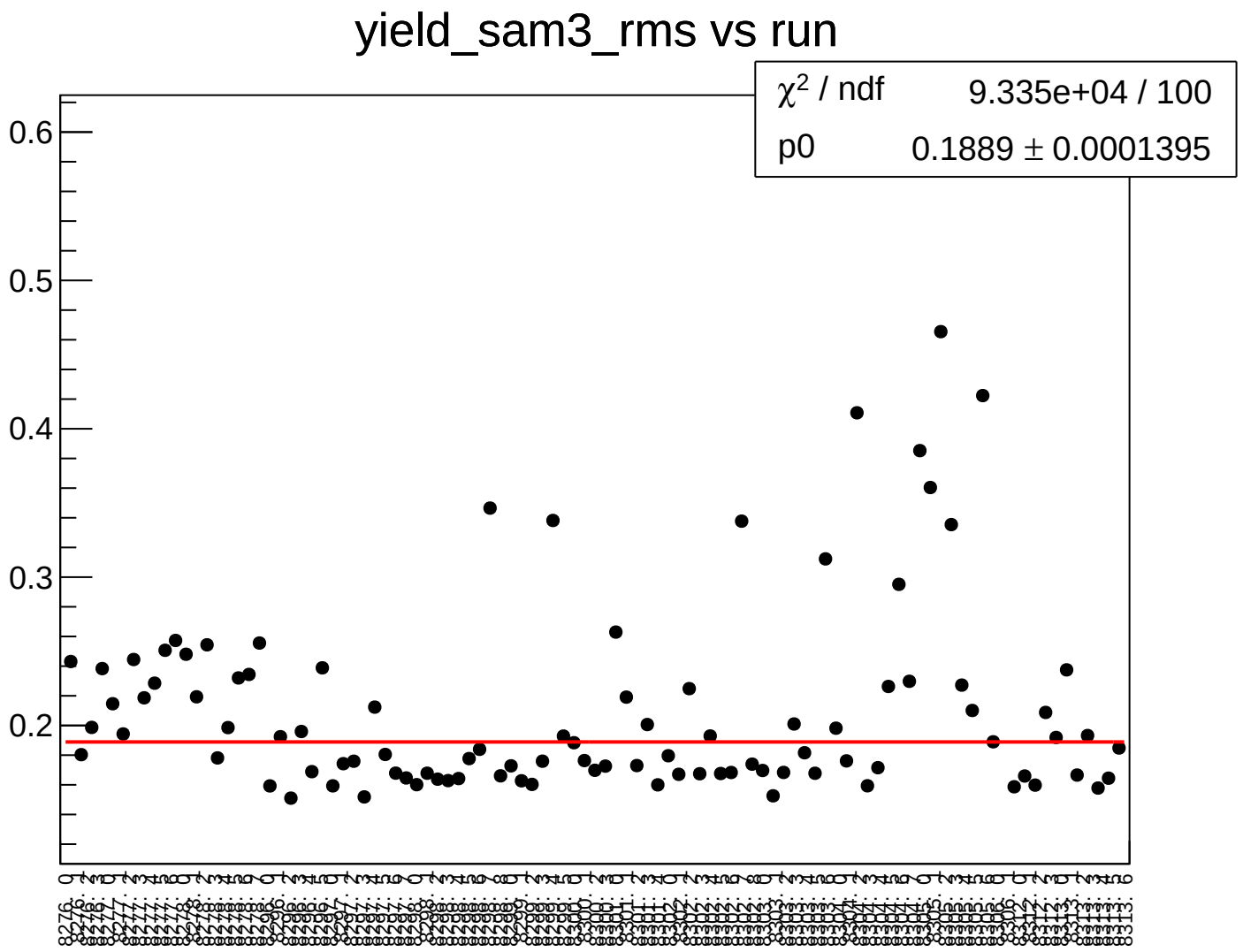

yield_sam2_mean vs run
χ² / ndf 1.503e+06 / 100
p0 25.22 ± 0.0002735
25.8
25.6
25.4
25.2
25
24.8
24.6
24.4
24.2
pull
Entries 101
Mean −404.6
Std Dev 0
100
0
−100
−200
−300

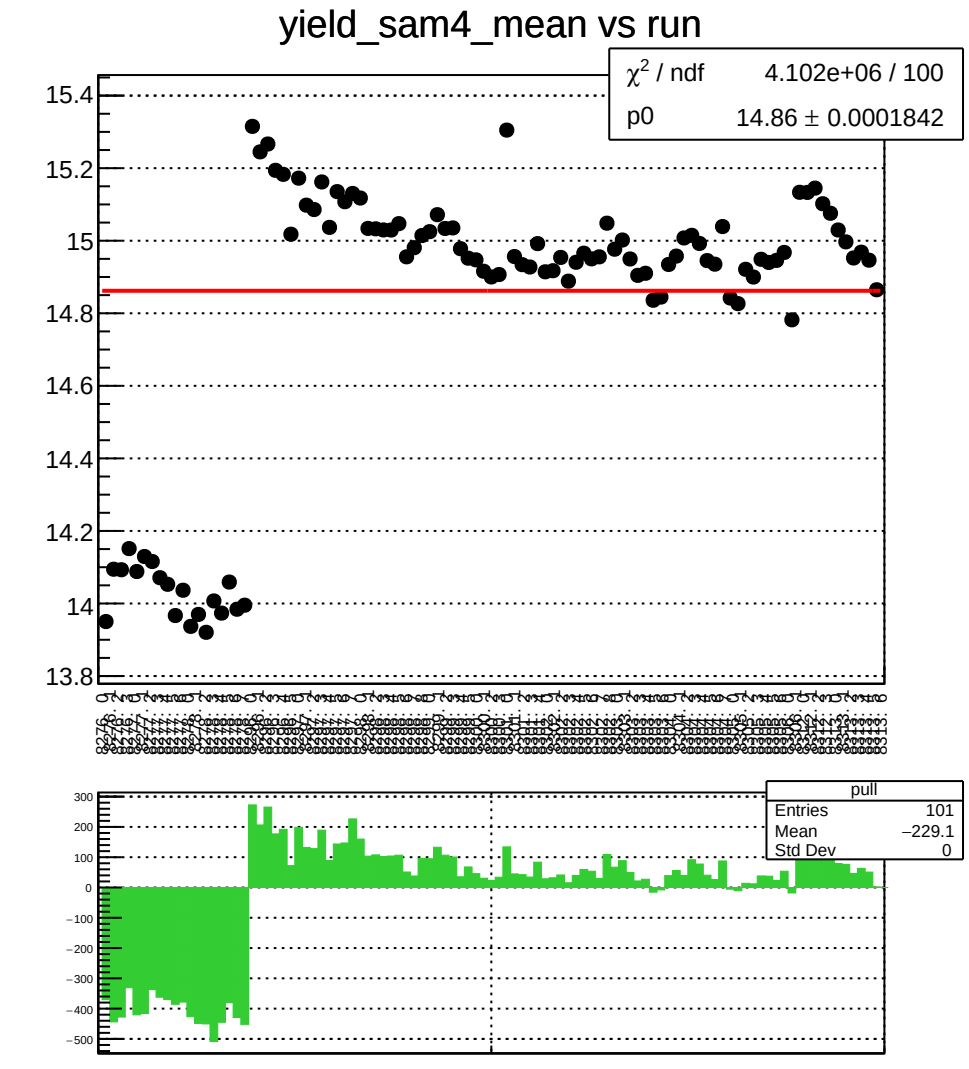

pull1D
Entries 101
Mean 7.498
Std Dev 0.005391
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

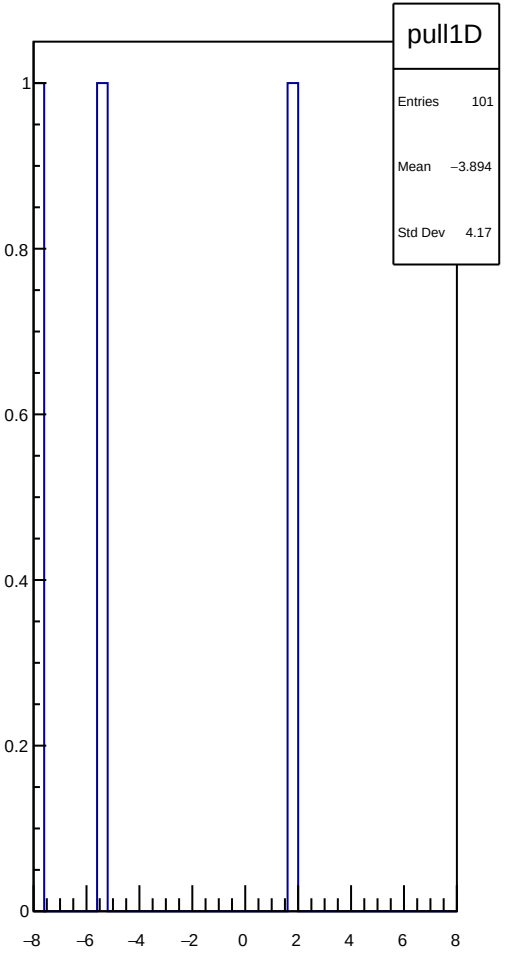

yield_sam2_rms vs run
χ² / ndf 9.518e+04 / 100
p0 0.2617 ± 0.0001934
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2

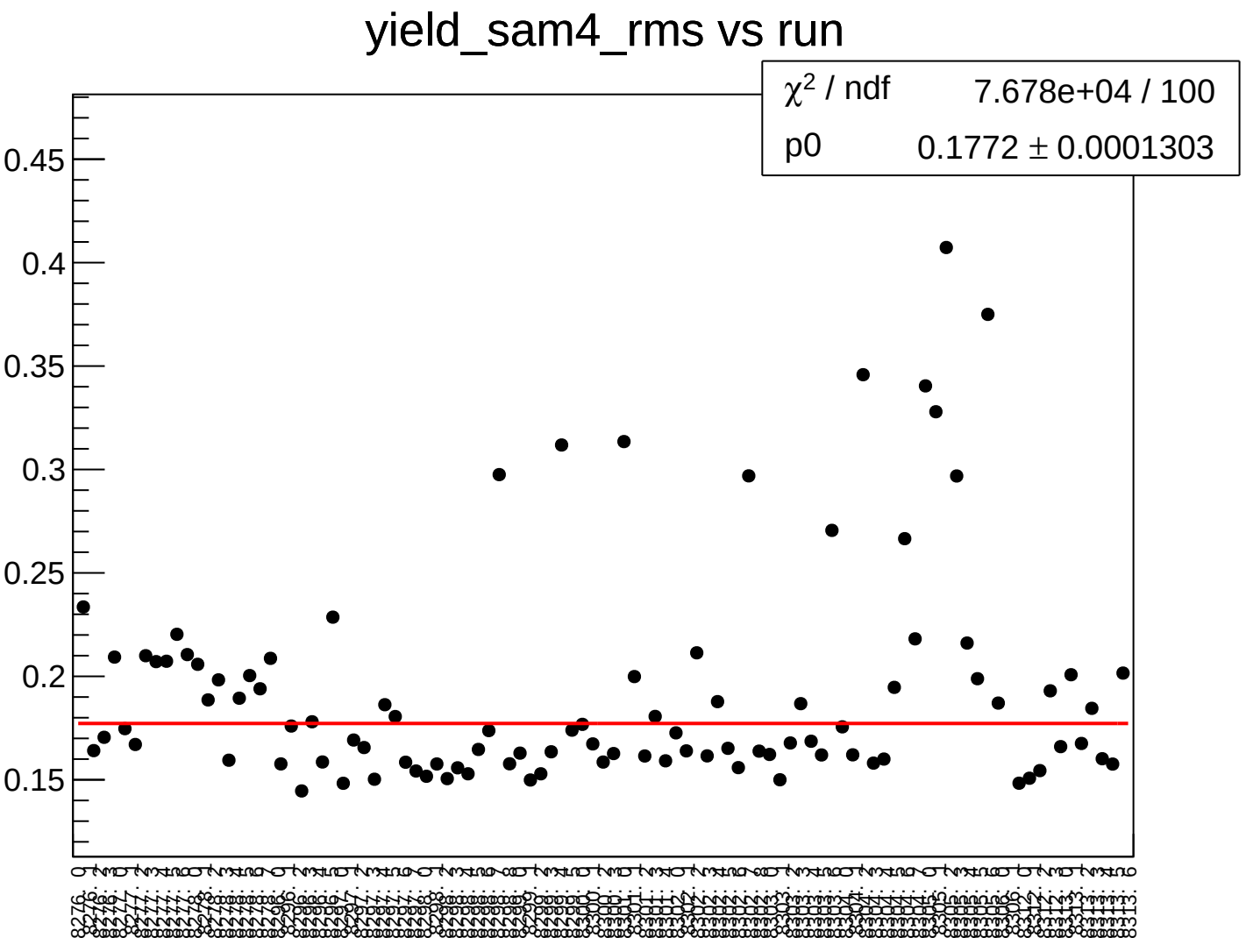

yield_sam3_mean vs run
χ² / ndf 5.255e+06 / 100
p0 24.67 ± 0.0001973
25.4
25.2
25
24.8
24.6
24.4
24.2
24
23.8
23.6
23.4
pull
Entries 101
Mean −151.5
Std Dev 0
200
0
−200
−400
−600

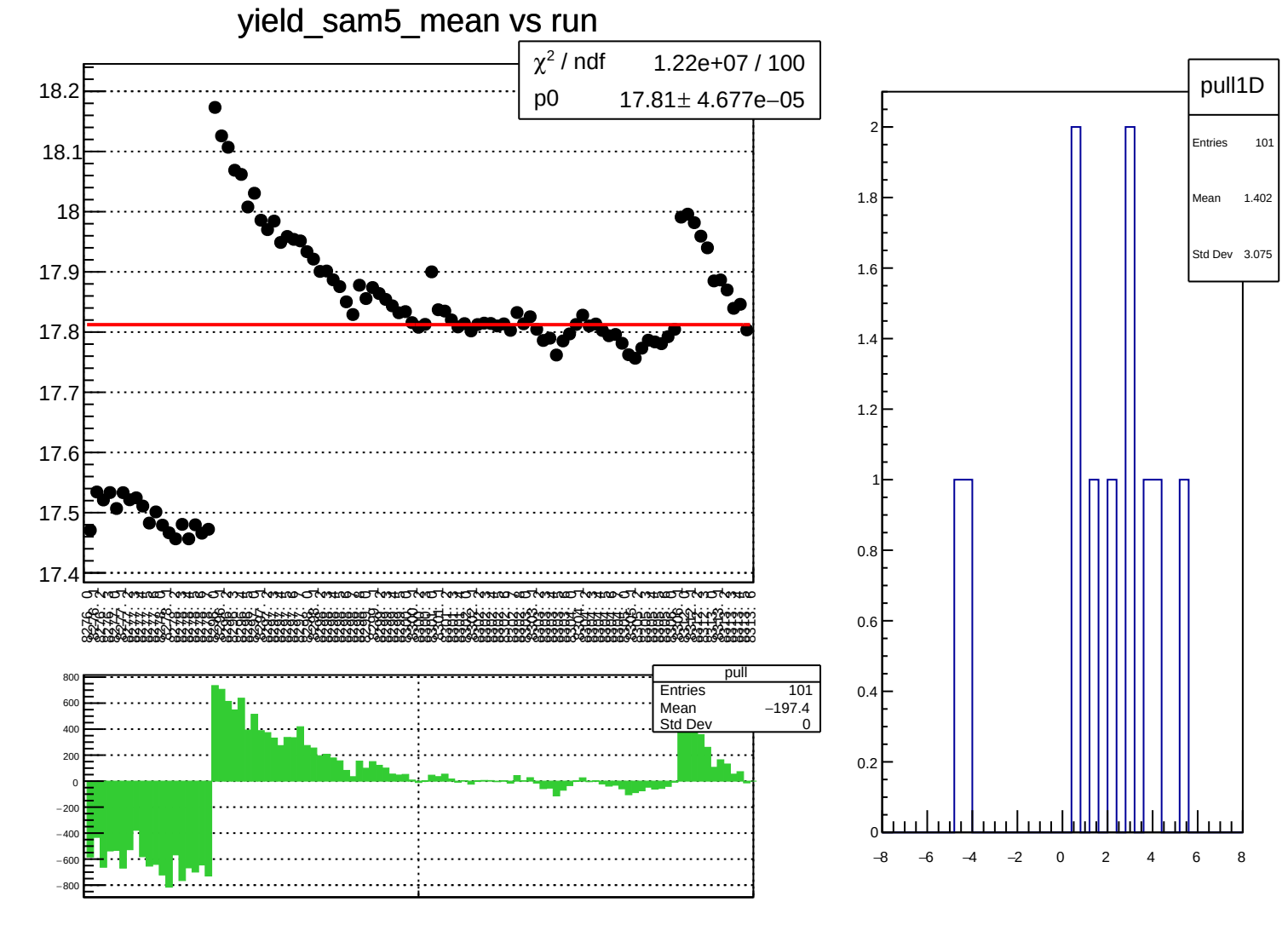

pull1D
Entries 101
Mean −2.479
Std Dev 1.085
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

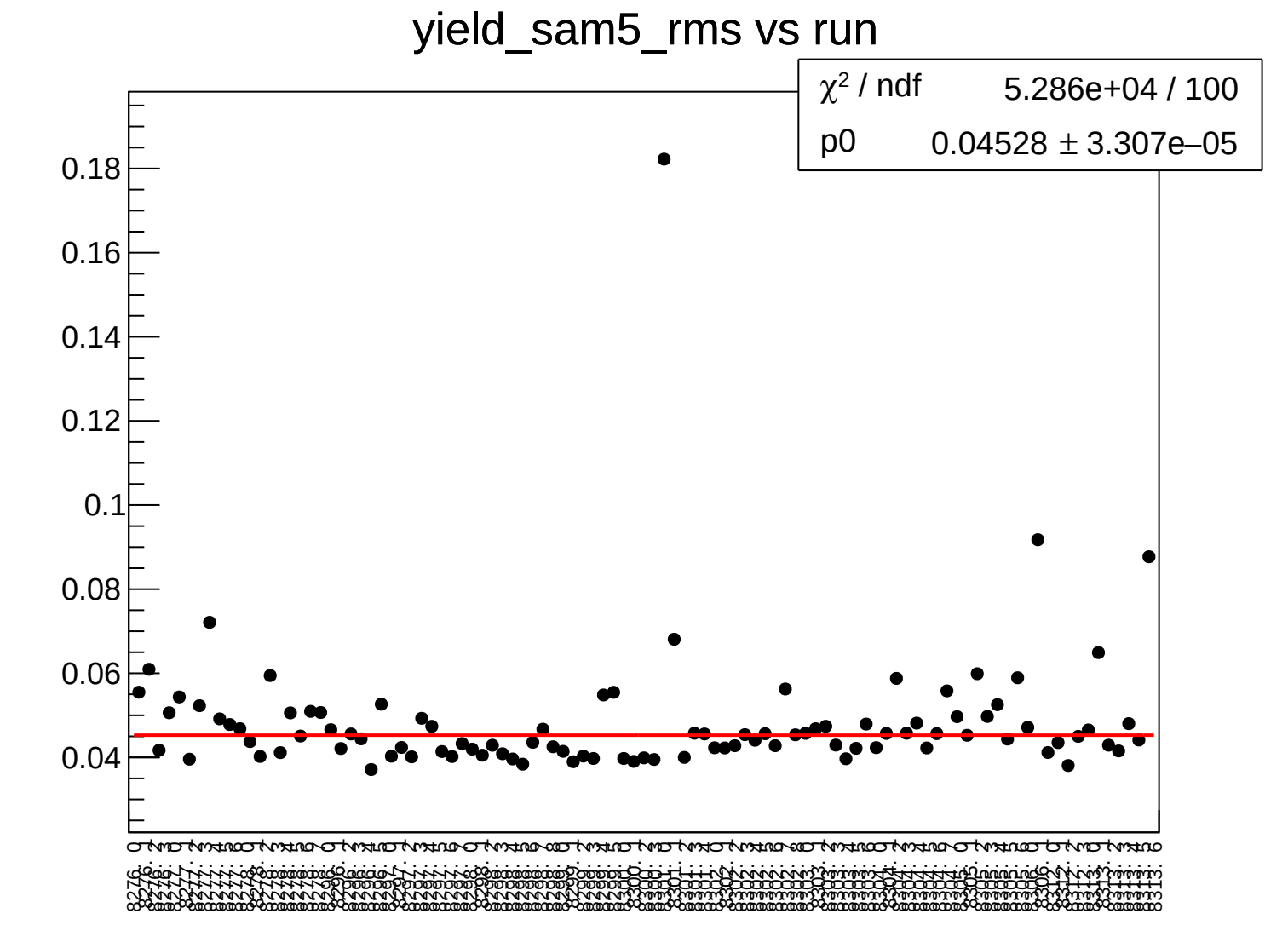

yield_sam3_rms vs run
χ^2 / ndf 9.335e+04 / 100
p0 0.1889 ± 0.0001395
0.6
0.5
0.4
0.3
0.2

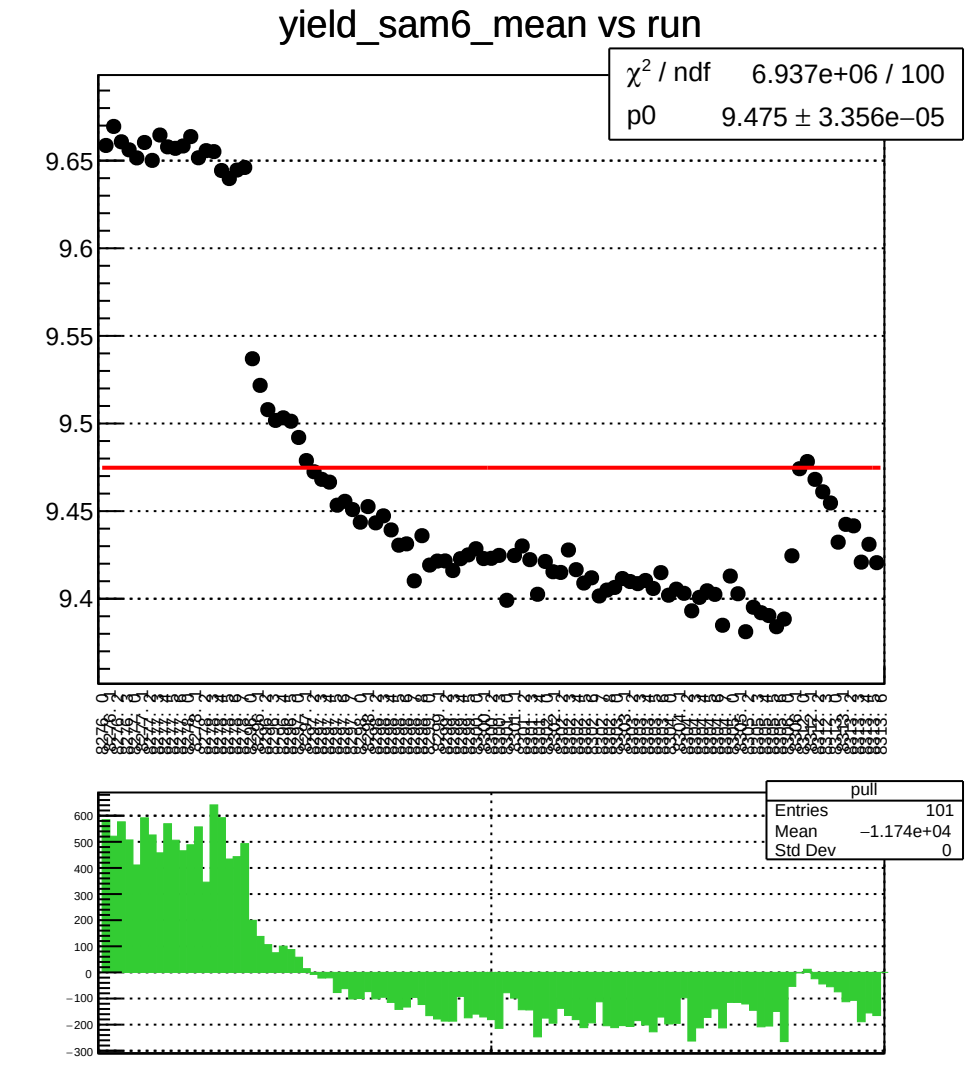

yield_sam4_mean vs run
χ² / ndf 4.102e+06 / 100
p0 14.86 ± 0.0001842
15.4
15.2
15
14.8
14.6
14.4
14.2
14
13.8
pull
Entries 101
Mean −229.1
Std Dev 0
300
200
100
0
−100
−200
−300
−400
−500

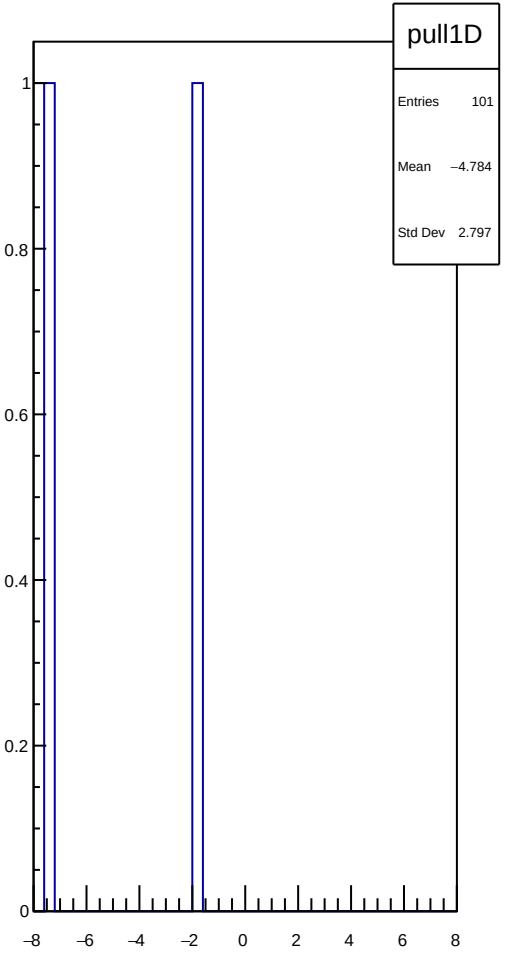

pull1D
Entries 101
Mean −3.894
Std Dev 4.17
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

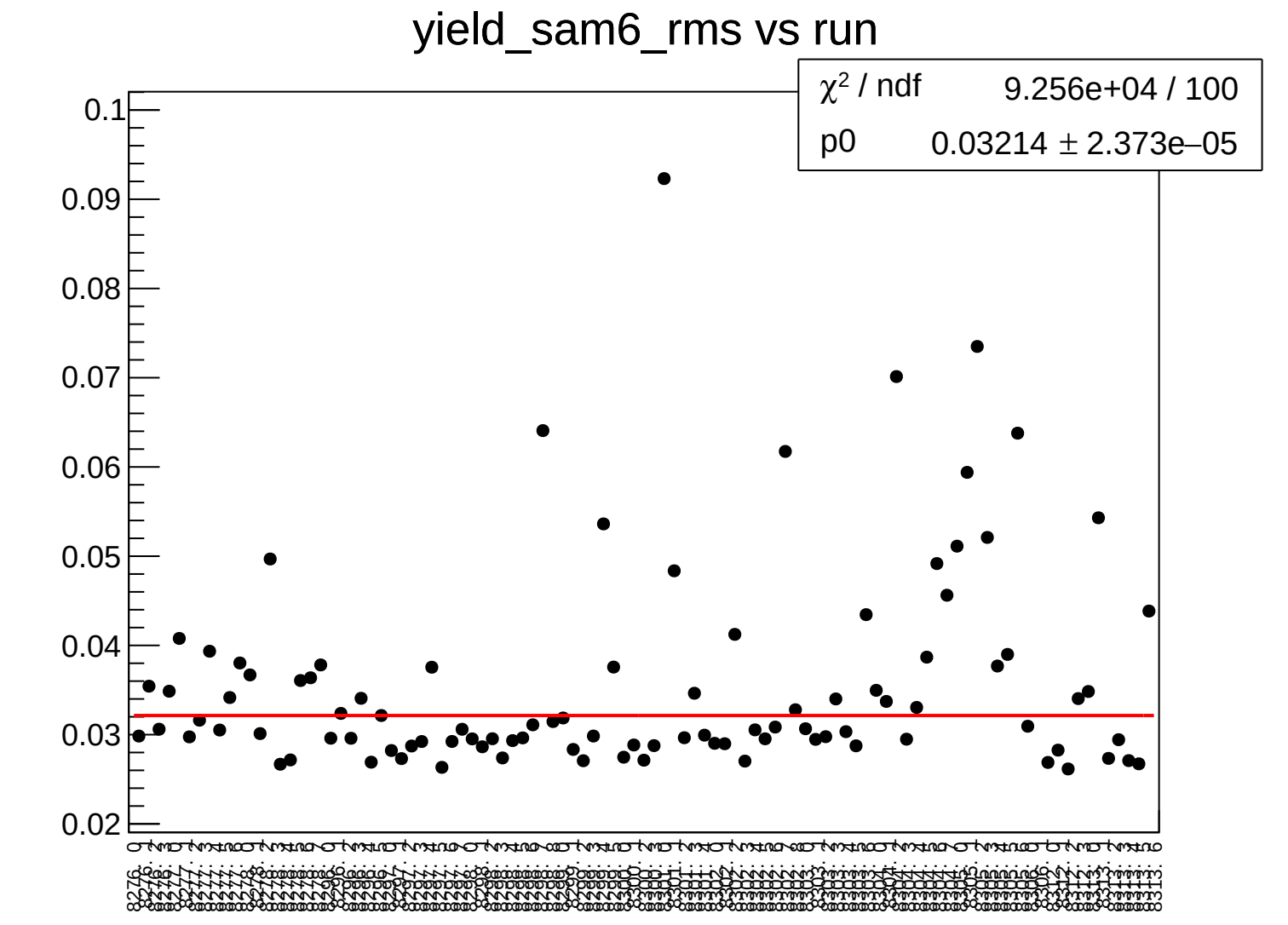

yield_sam4_rms vs run
χ² / ndf 7.678e+04 / 100
p0 0.1772 ± 0.0001303
0.45
0.4
0.35
0.3
0.25
0.2
0.15

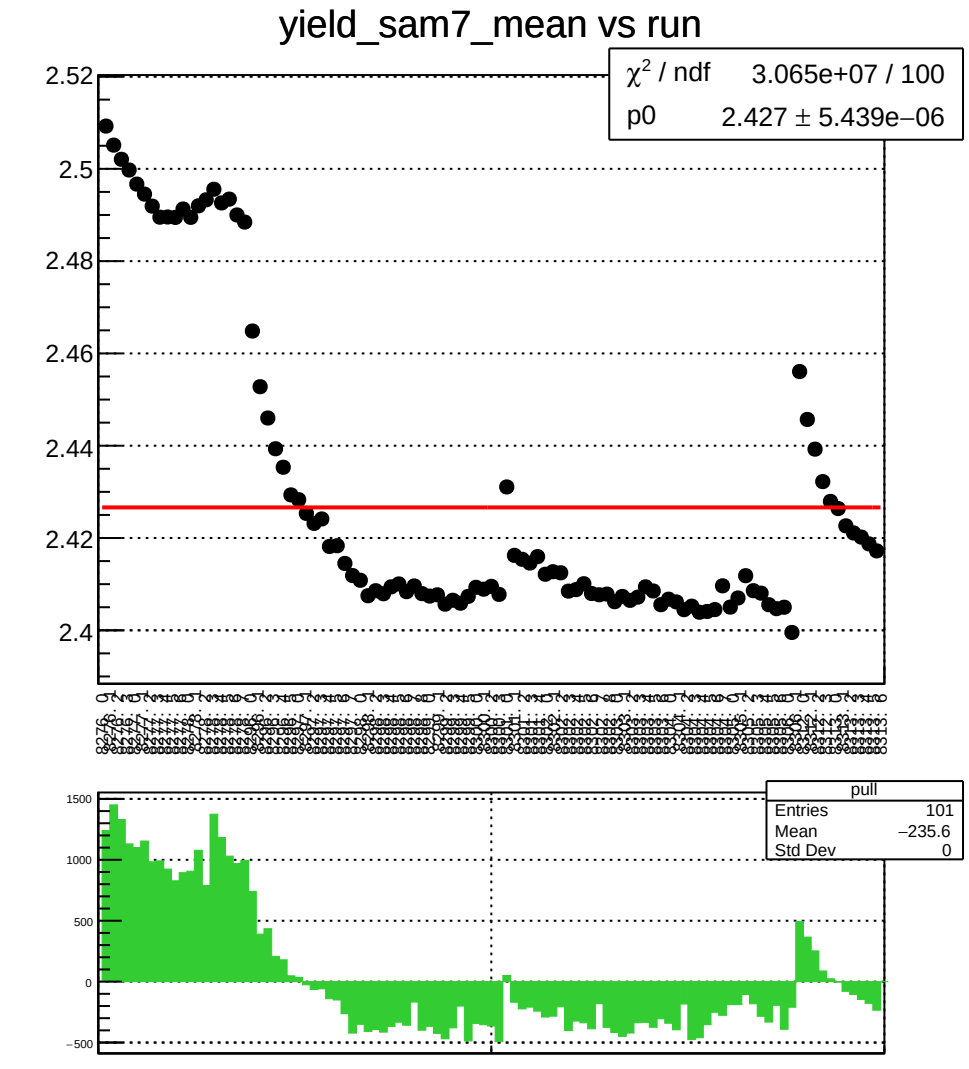

yield_sam5_mean vs run
χ² / ndf 1.22e+07 / 100
p0 17.81± 4.677e−05
18.2
18.1
18
17.9
17.8
17.7
17.6
17.5
17.4
pull
Entries 101
Mean −197.4
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
pull1D
Entries 101
Mean 1.402
Std Dev 3.075
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

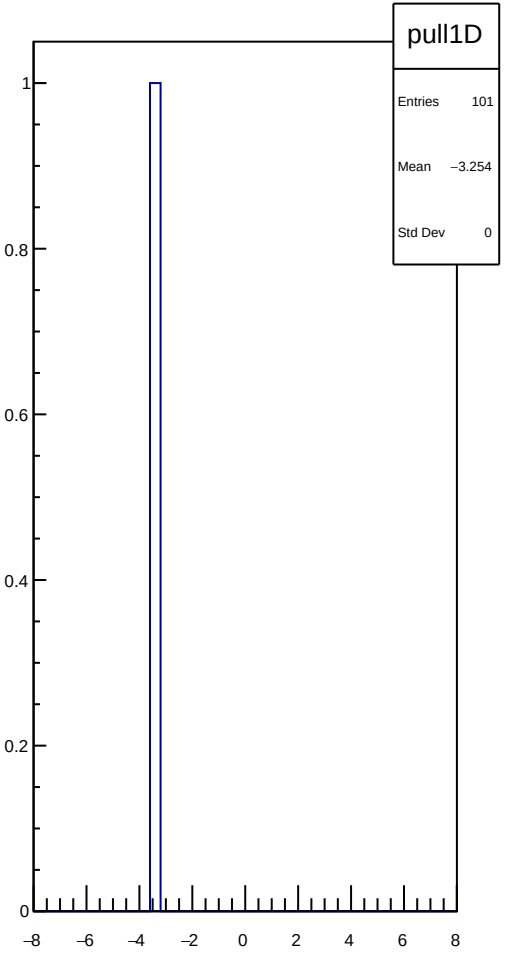

yield_sam5_rms vs run
χ² / ndf 5.286e+04 / 100
p0 0.04528 ± 3.307e−05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04

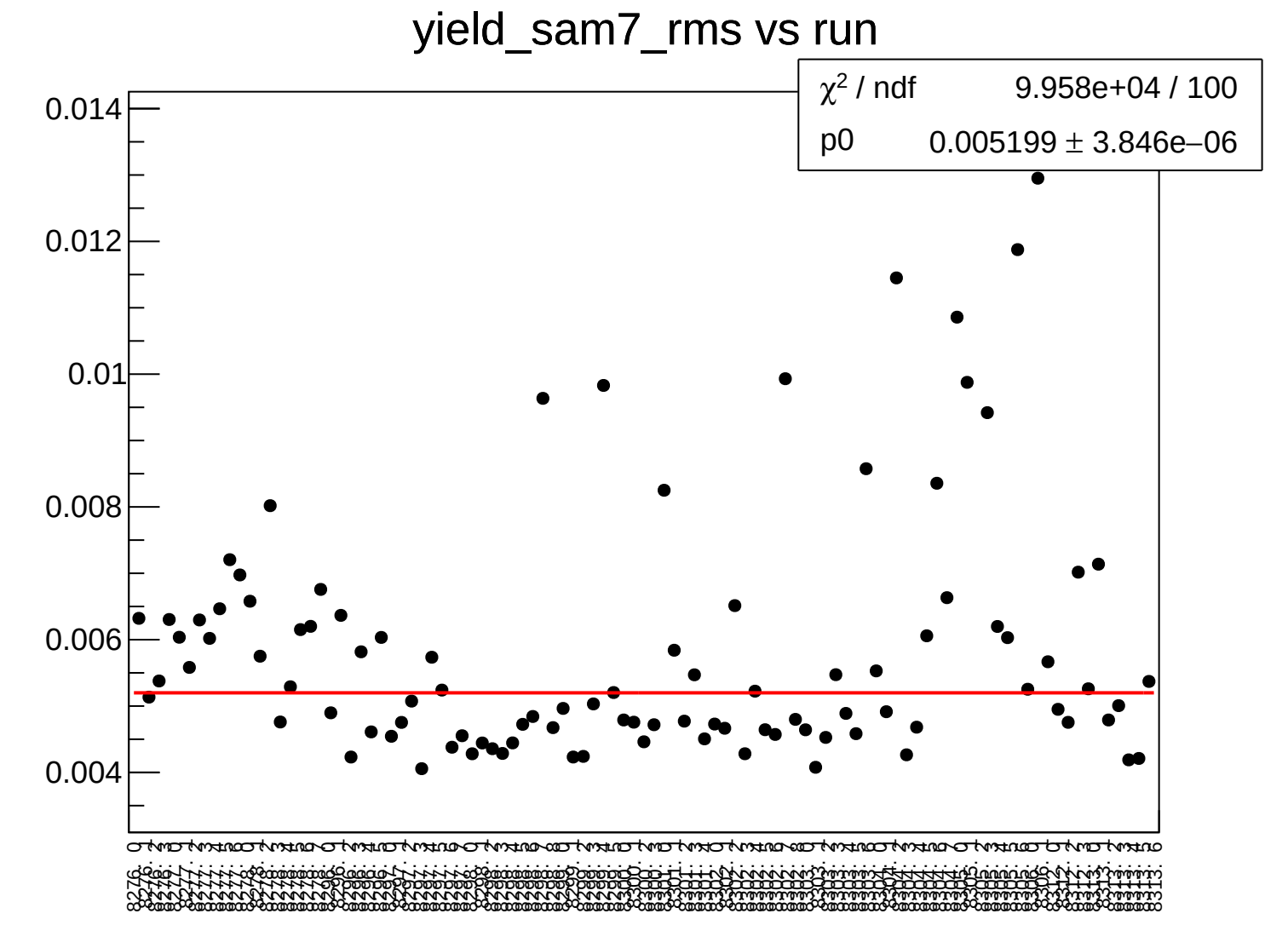

yield_sam6_mean vs run
χ² / ndf 6.937e+06 / 100
p0 9.475 ± 3.356e−05
9.65
9.6
9.55
9.5
9.45
9.4
pull
Entries 101
Mean −1.174e+04
Std Dev 0
600
500
400
300
200
100
0
−100
−200
−300

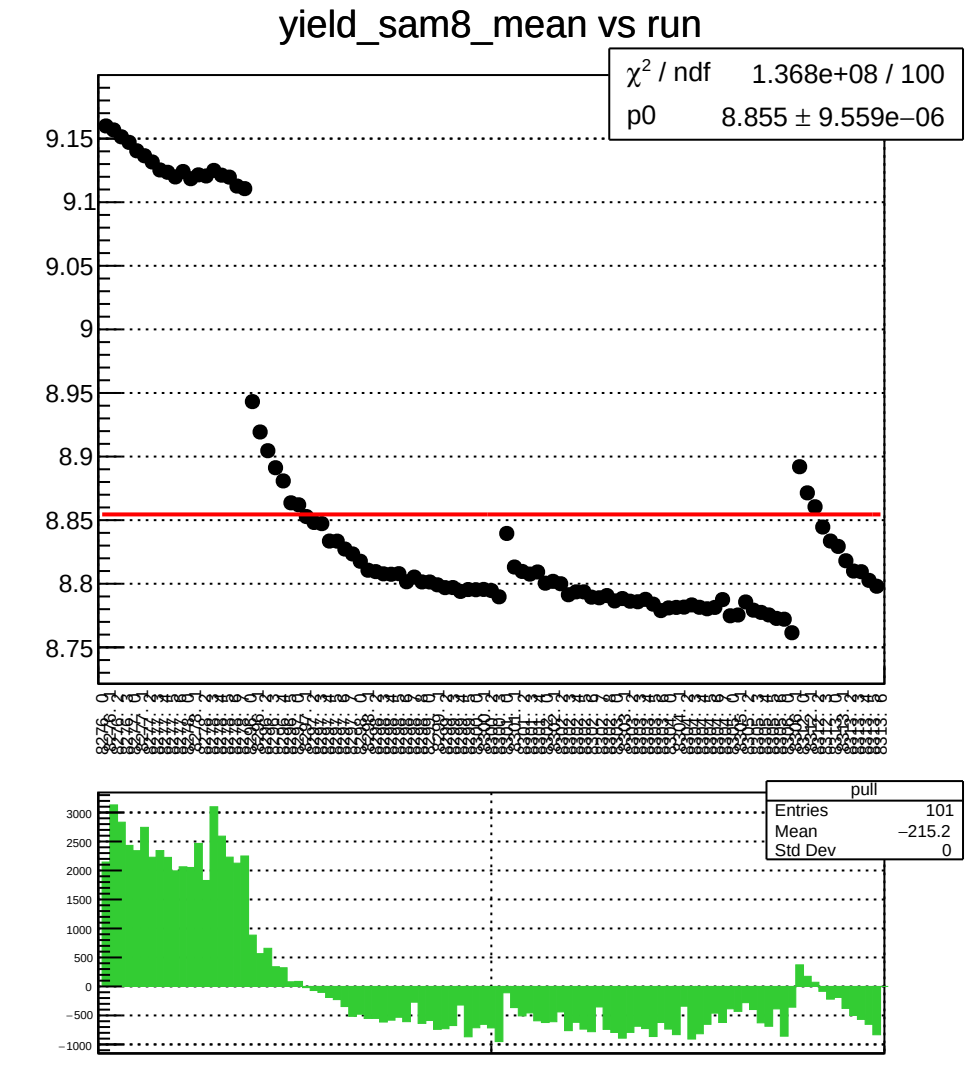

pull1D
Entries 101
Mean −4.784
Std Dev 2.797
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

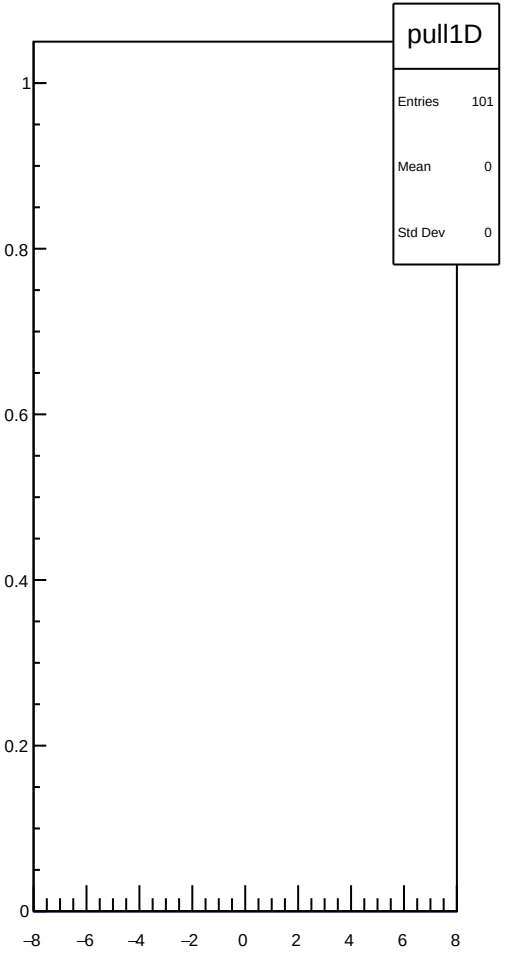

yield_sam6_rms vs run
χ² / ndf 9.256e+04 / 100
p0 0.03214 ± 2.373e−05
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02

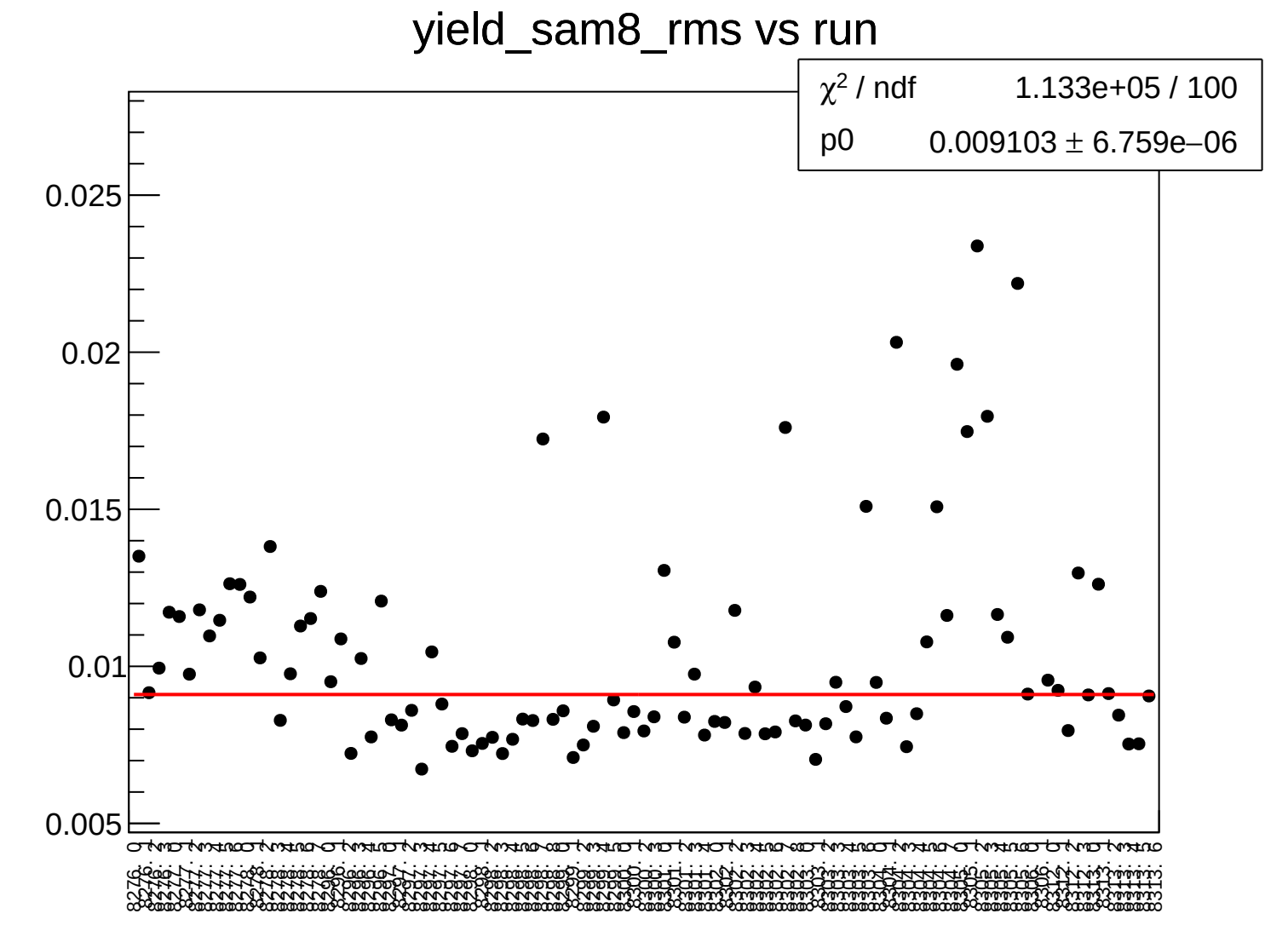

yield_sam7_mean vs run
χ² / ndf 3.065e+07 / 100
p0 2.427 ± 5.439e−06
2.52
2.5
2.48
2.46
2.44
2.42
2.4
pull
Entries 101
Mean −235.6
Std Dev 0
1500
1000
500
0
−500

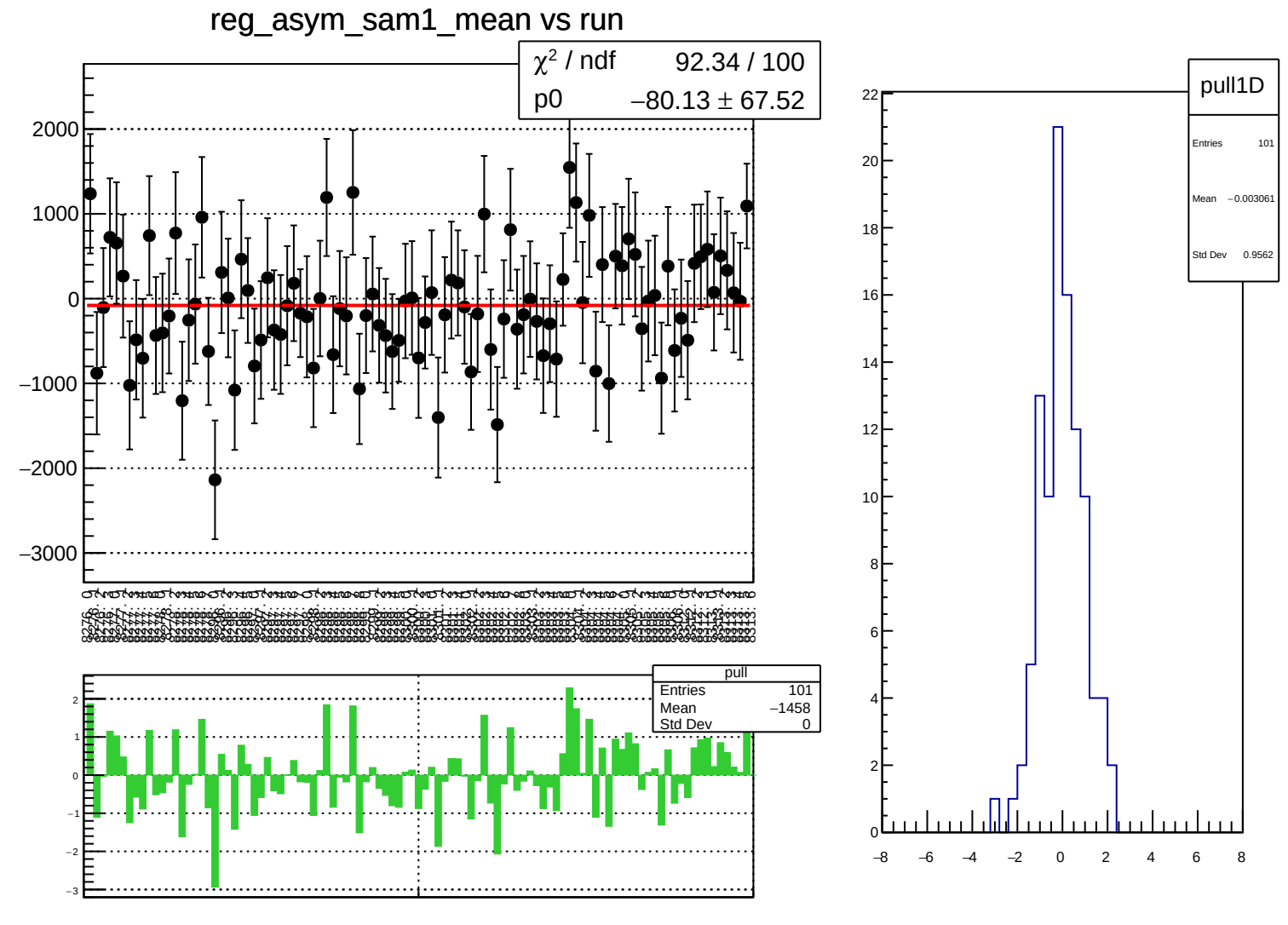

pull1D
Entries 101
Mean −3.254
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

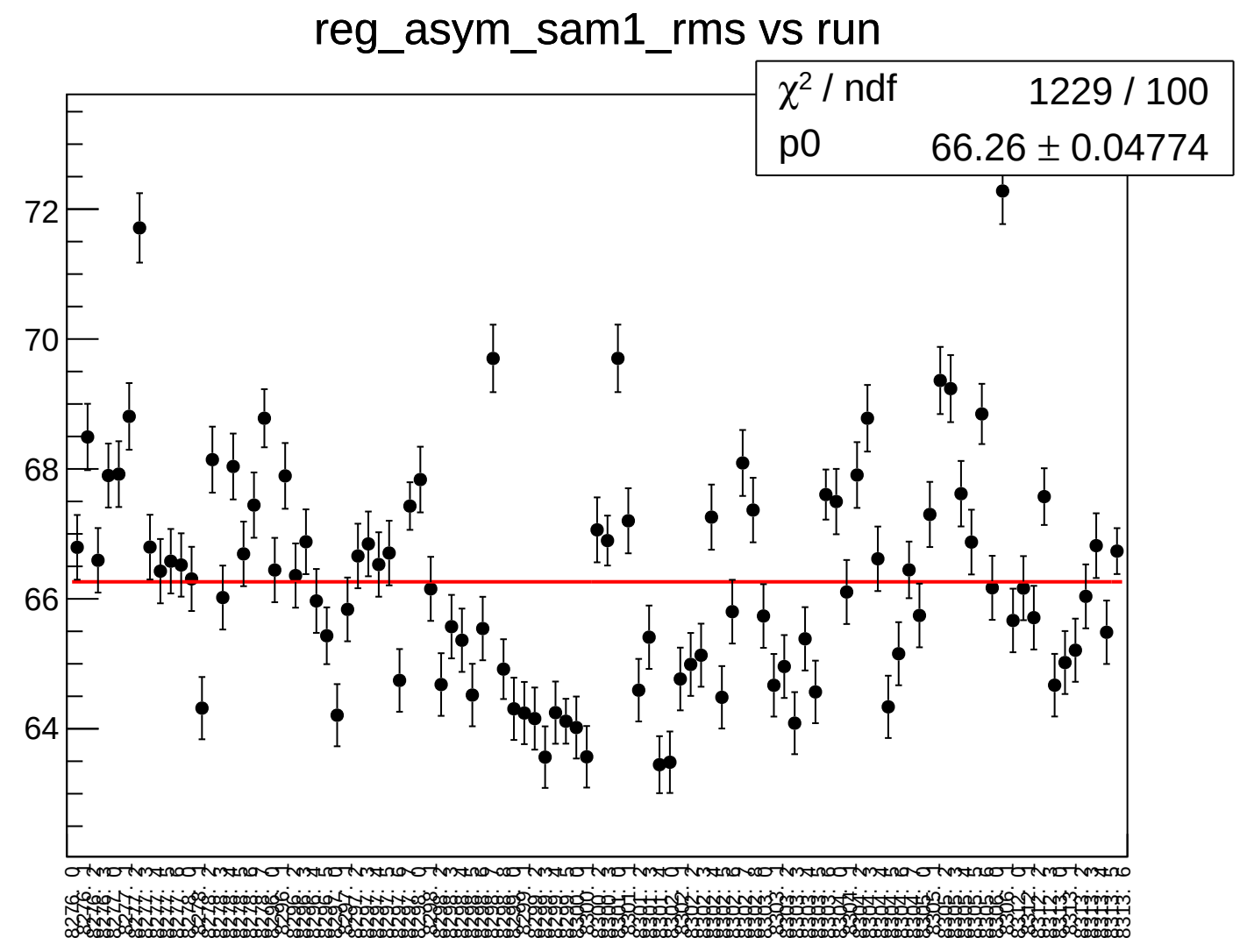

yield_sam7_rms vs run
χ^2 / ndf 9.958e+04 / 100
p0 0.005199 ± 3.846e−06
0.014
0.012
0.01
0.008
0.006
0.004

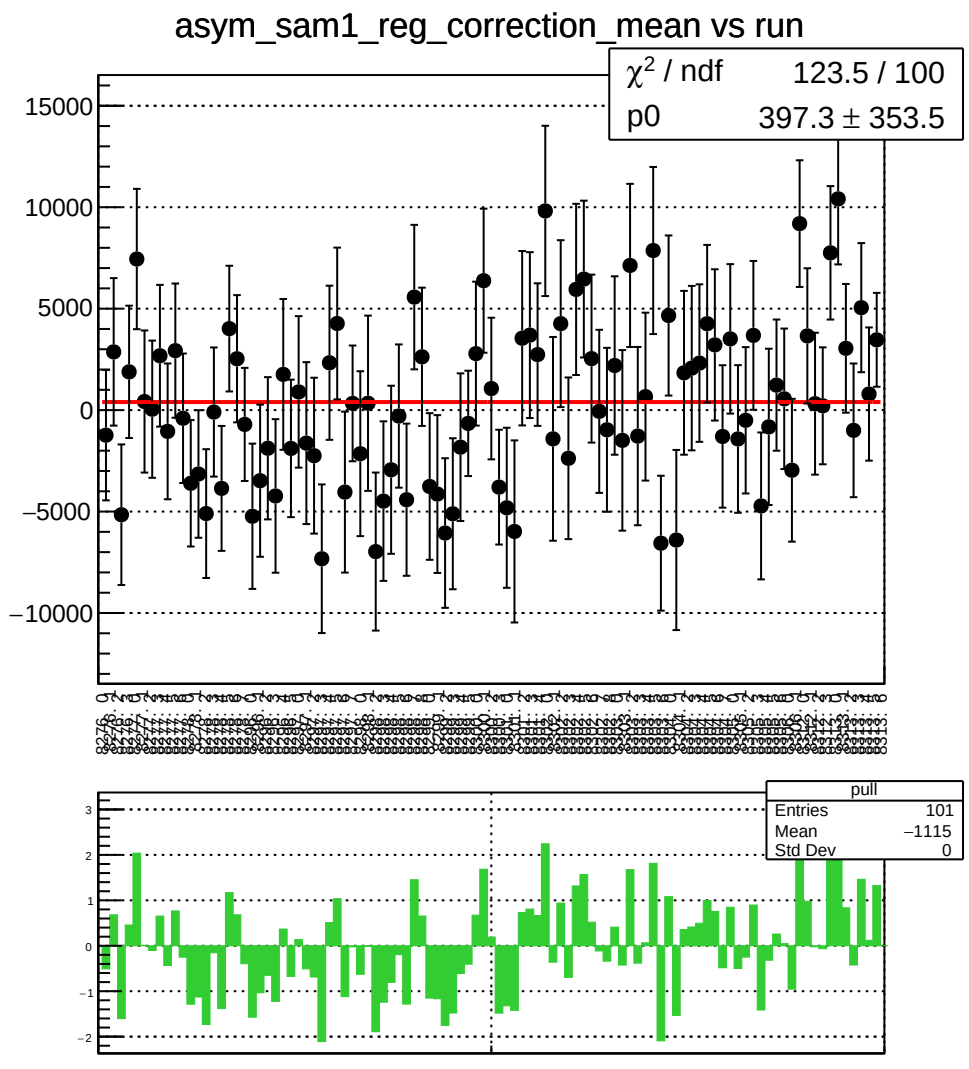

yield_sam8_mean vs run
χ² / ndf 1.368e+08 / 100
p0 8.855 ± 9.559e−06
9.15
9.1
9.05
9
8.95
8.9
8.85
8.8
8.75
pull
Entries 101
Mean −215.2
Std Dev 0
3000
2500
2000
1500
1000
500
0
−500
−1000

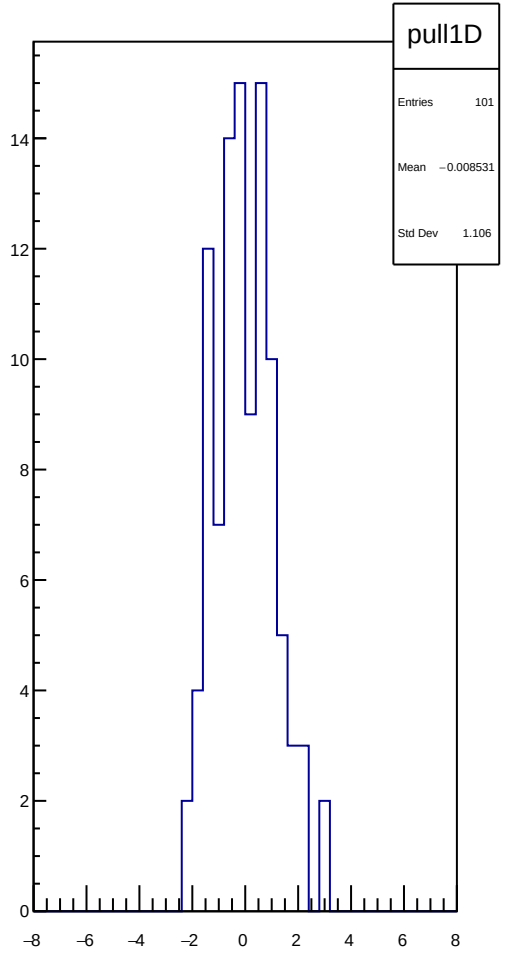

pull1D
Entries 101
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

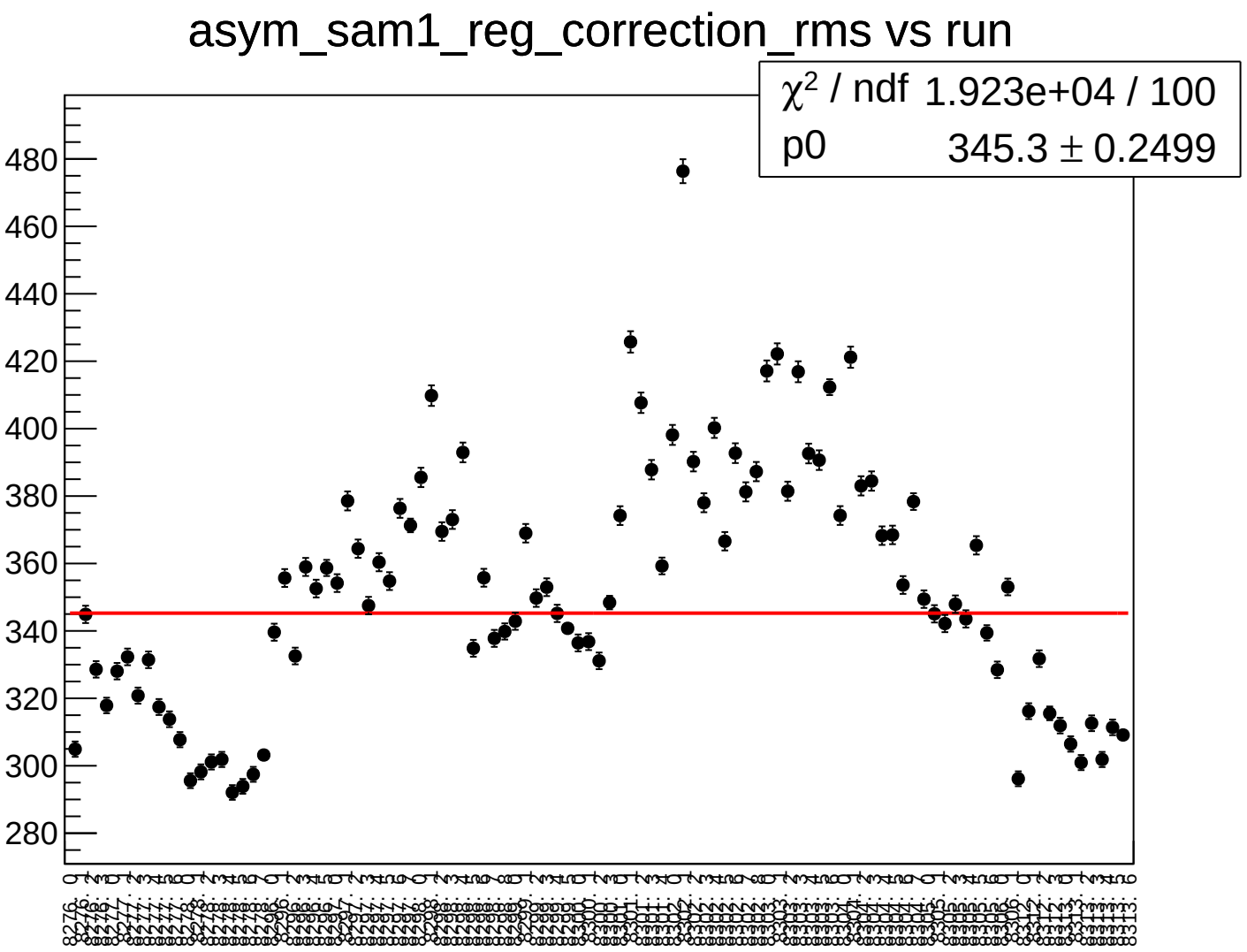

yield_sam8_rms vs run
χ² / ndf 1.133e+05 / 100
p0 0.009103 ± 6.759e−06
0.025
0.02
0.015
0.01
0.005

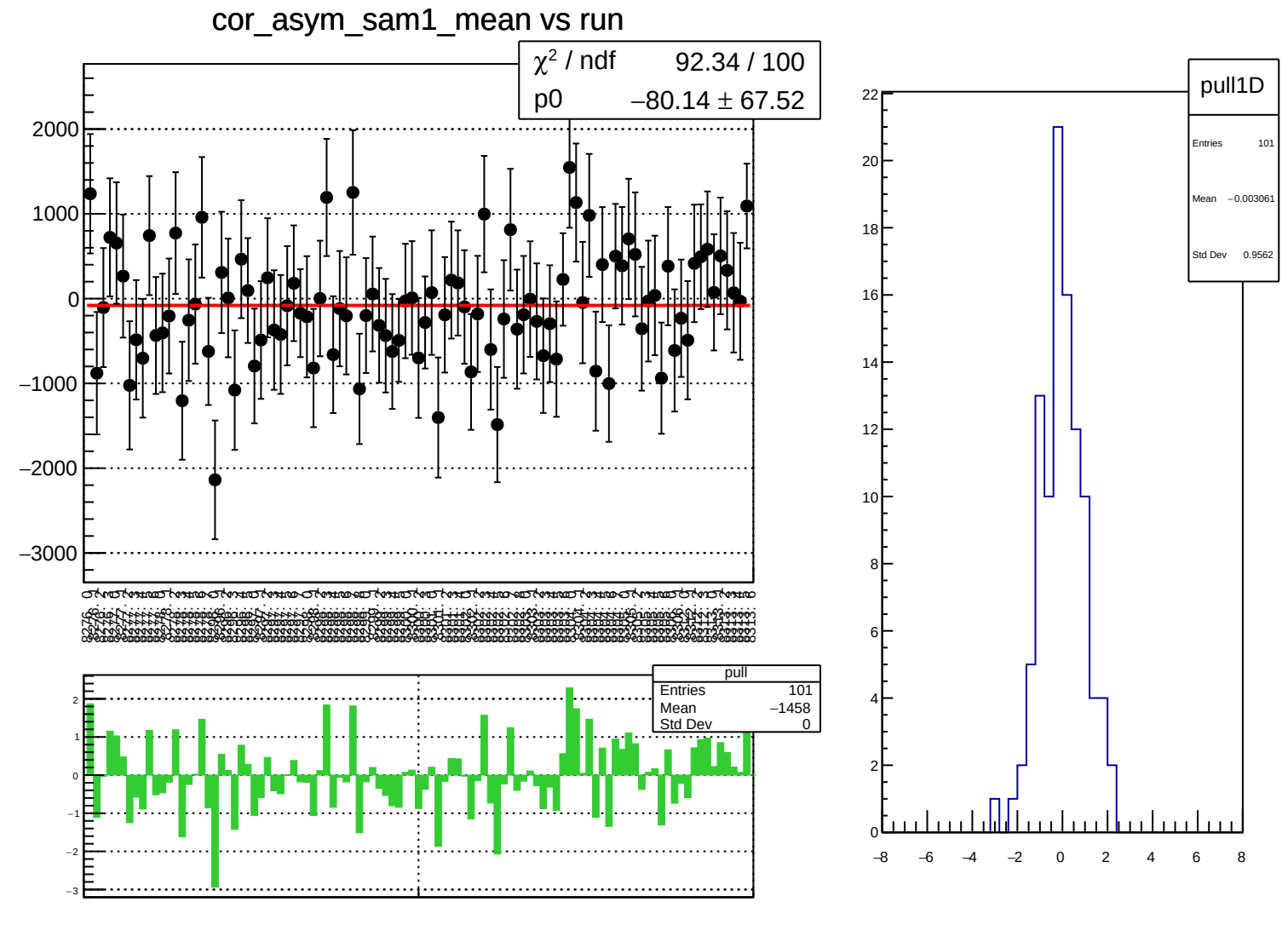

reg_asym_sam1_mean vs run
χ² / ndf 92.34 / 100
p0 −80.13 ± 67.52
2000
1000
0
−1000
−2000
−3000
pull
Entries 101
Mean −1458
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean −0.003061
Std Dev 0.9562
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

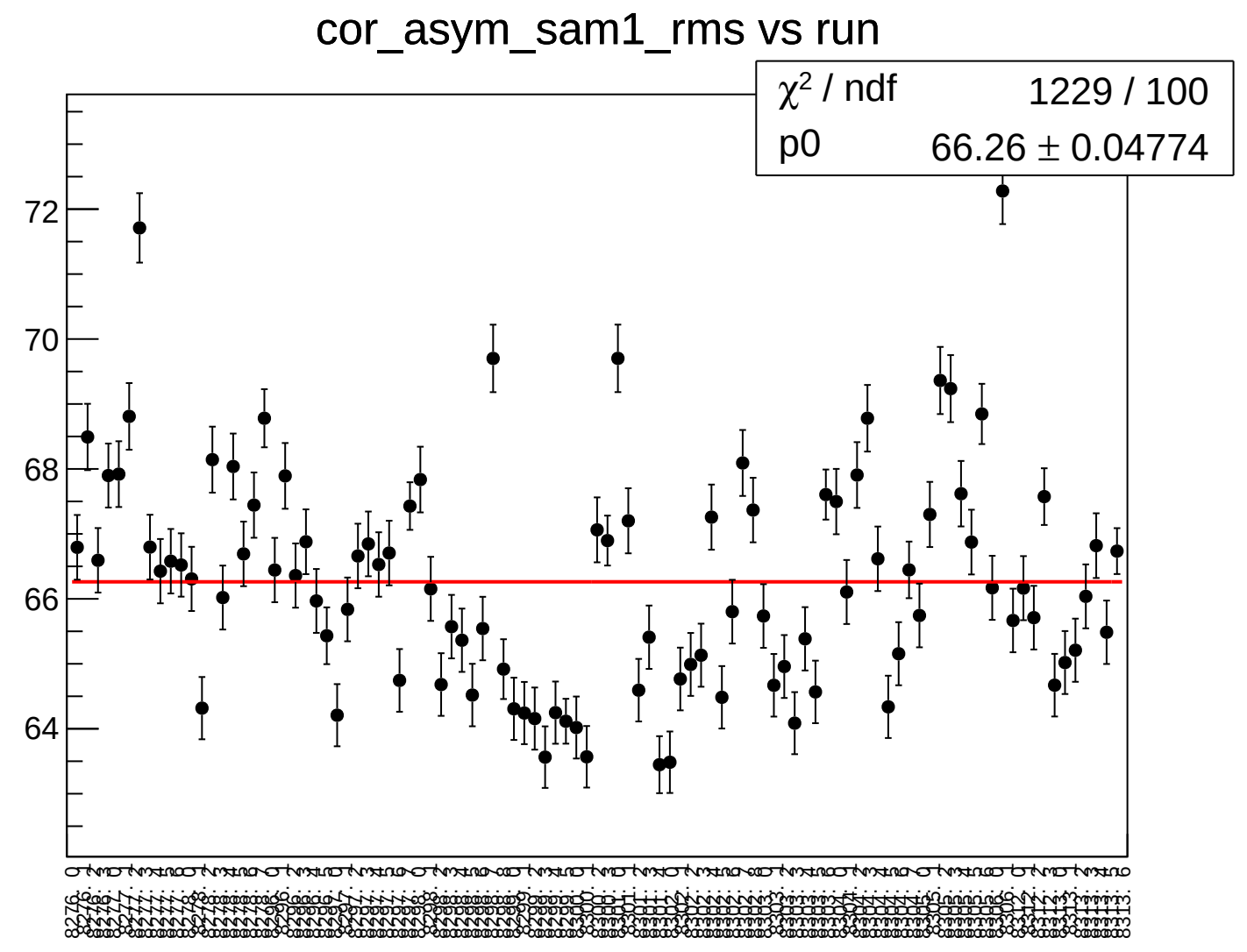

reg_asym_sam1_rms vs run
χ² / ndf 1229 / 100
p0 66.26 ± 0.04774
72
70
68
66
64

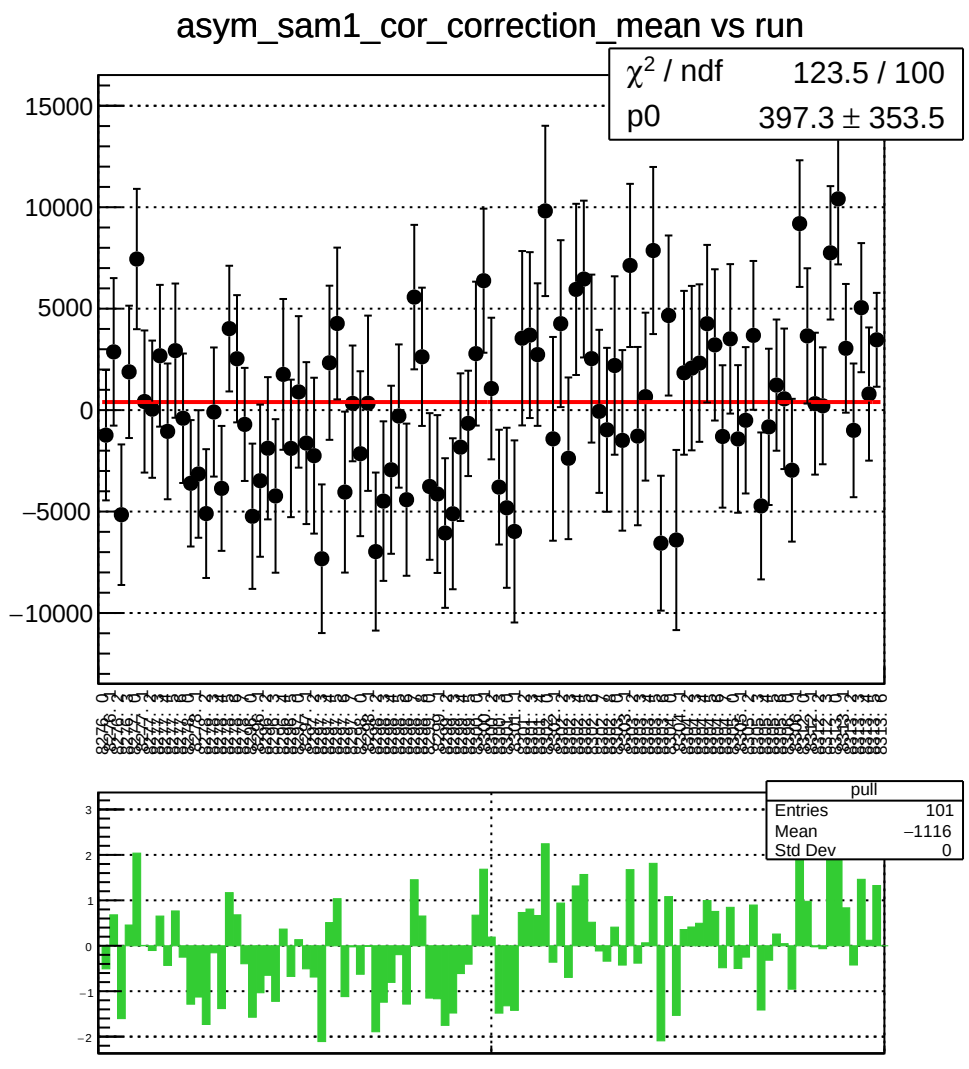

asym_sam1_reg_correction_mean vs run
χ² / ndf 123.5 / 100
p0 397.3 ± 353.5
15000
10000
5000
0
−5000
−10000
pull
Entries 101
Mean −1115
Std Dev 0
3
2
1
0
−1
−2

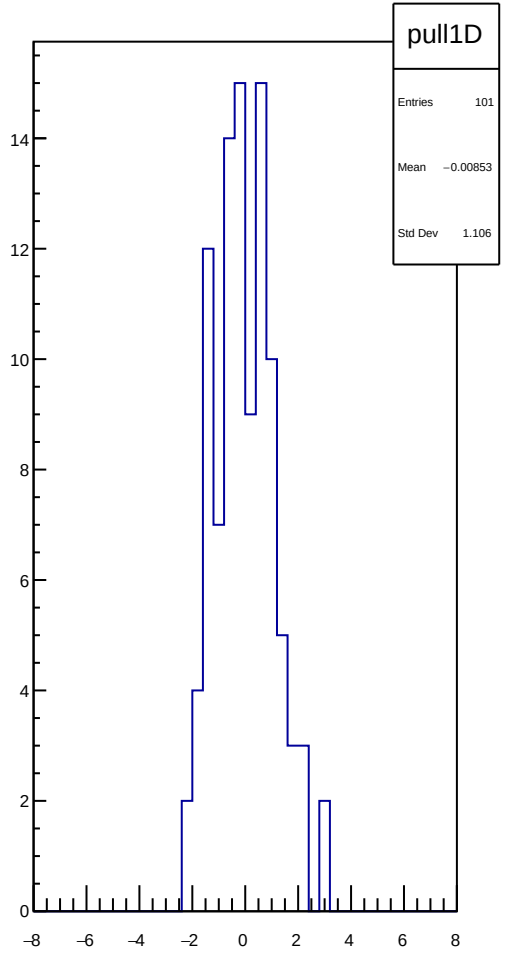

pull1D
Entries 101
Mean −0.008531
Std Dev 1.106
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

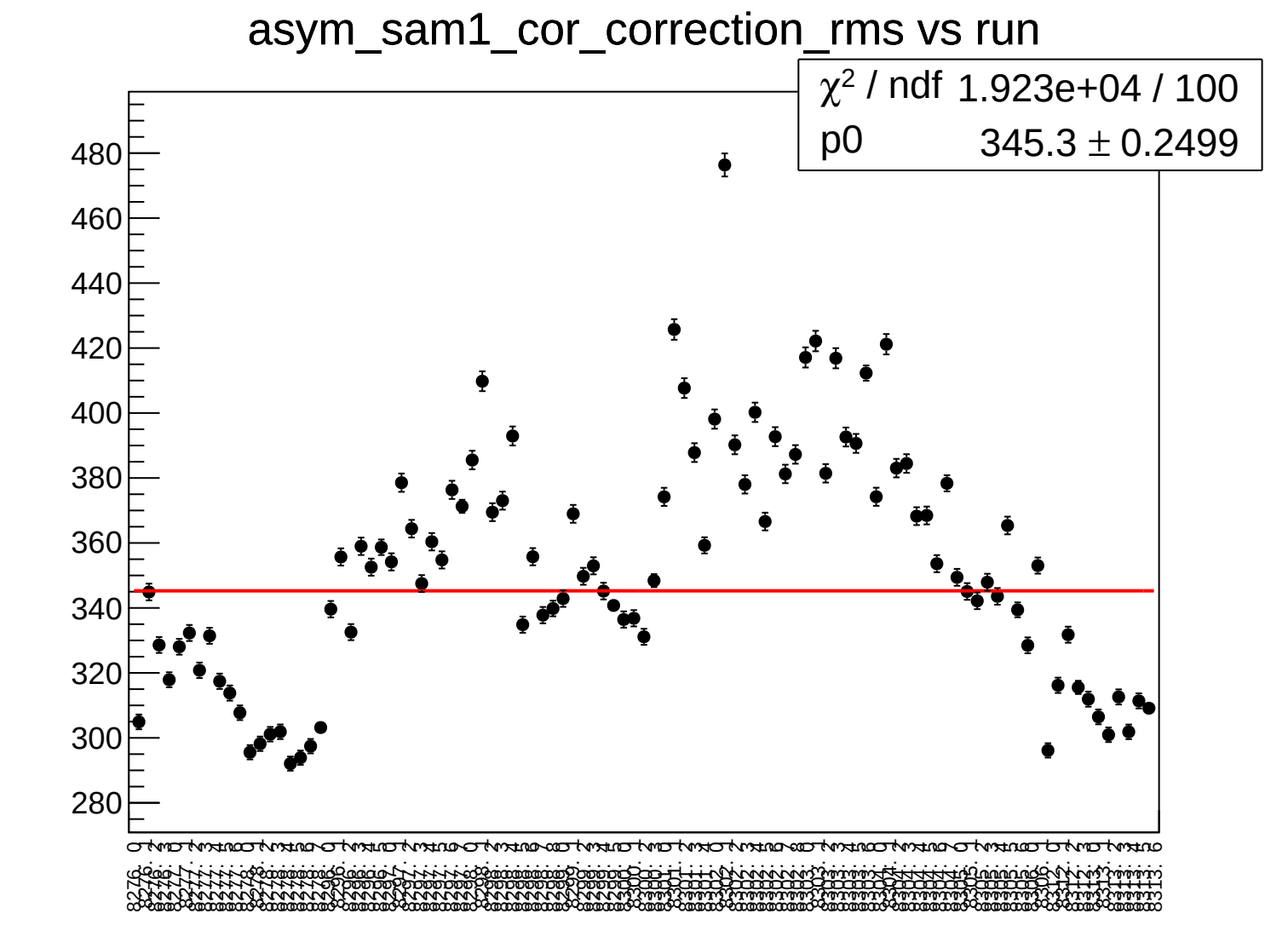

asym_sam1_reg_correction_rms vs run
χ^2 / ndf 1.923e+04 / 100
p0 345.3 ± 0.2499
480
460
440
420
400
380
360
340
320
300
280

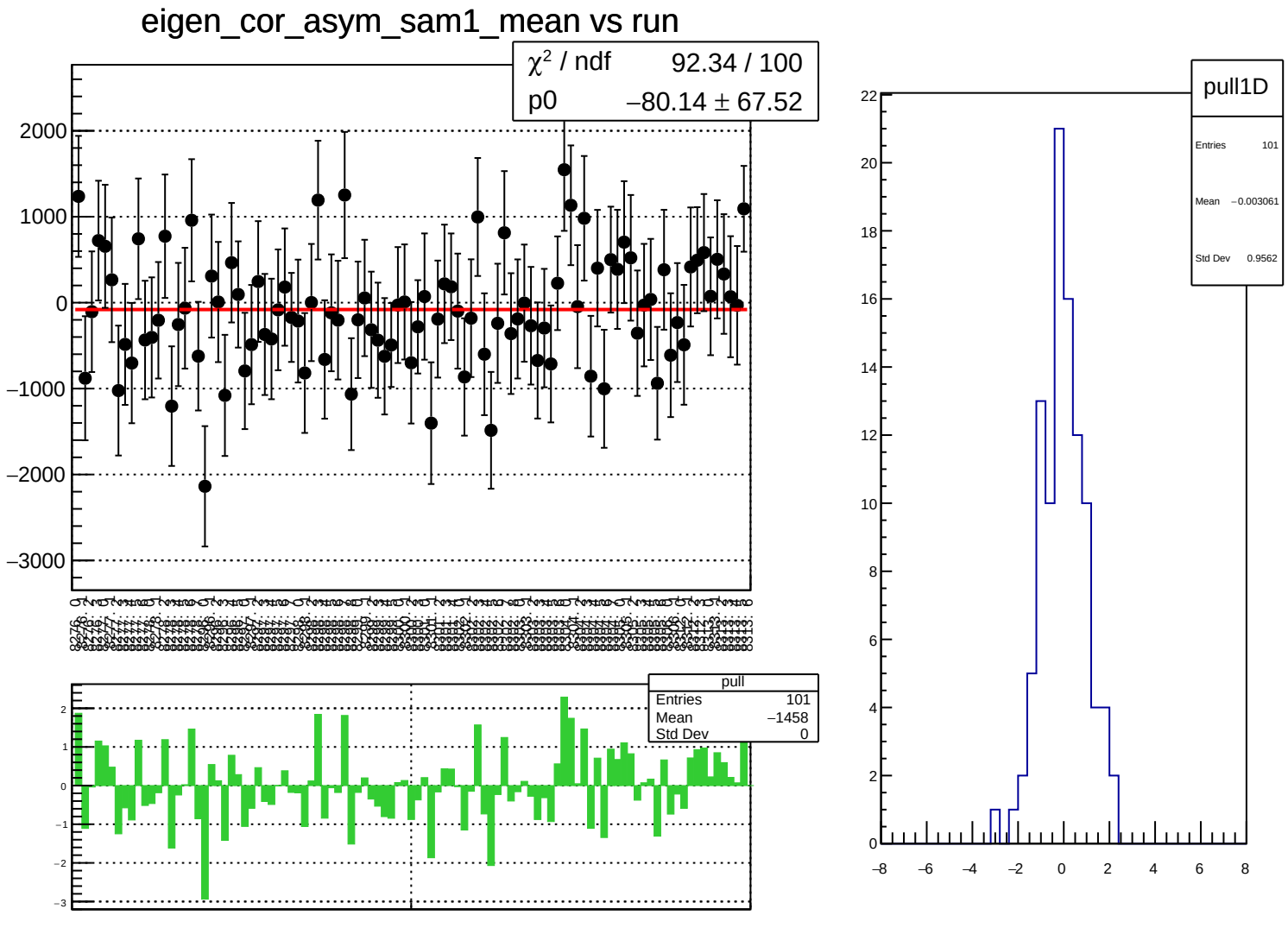

cor_asym_sam1_mean vs run
χ² / ndf 92.34 / 100
p0 −80.14 ± 67.52
2000
1000
0
−1000
−2000
−3000
pull
Entries 101
Mean −1458
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean −0.003061
Std Dev 0.9562
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

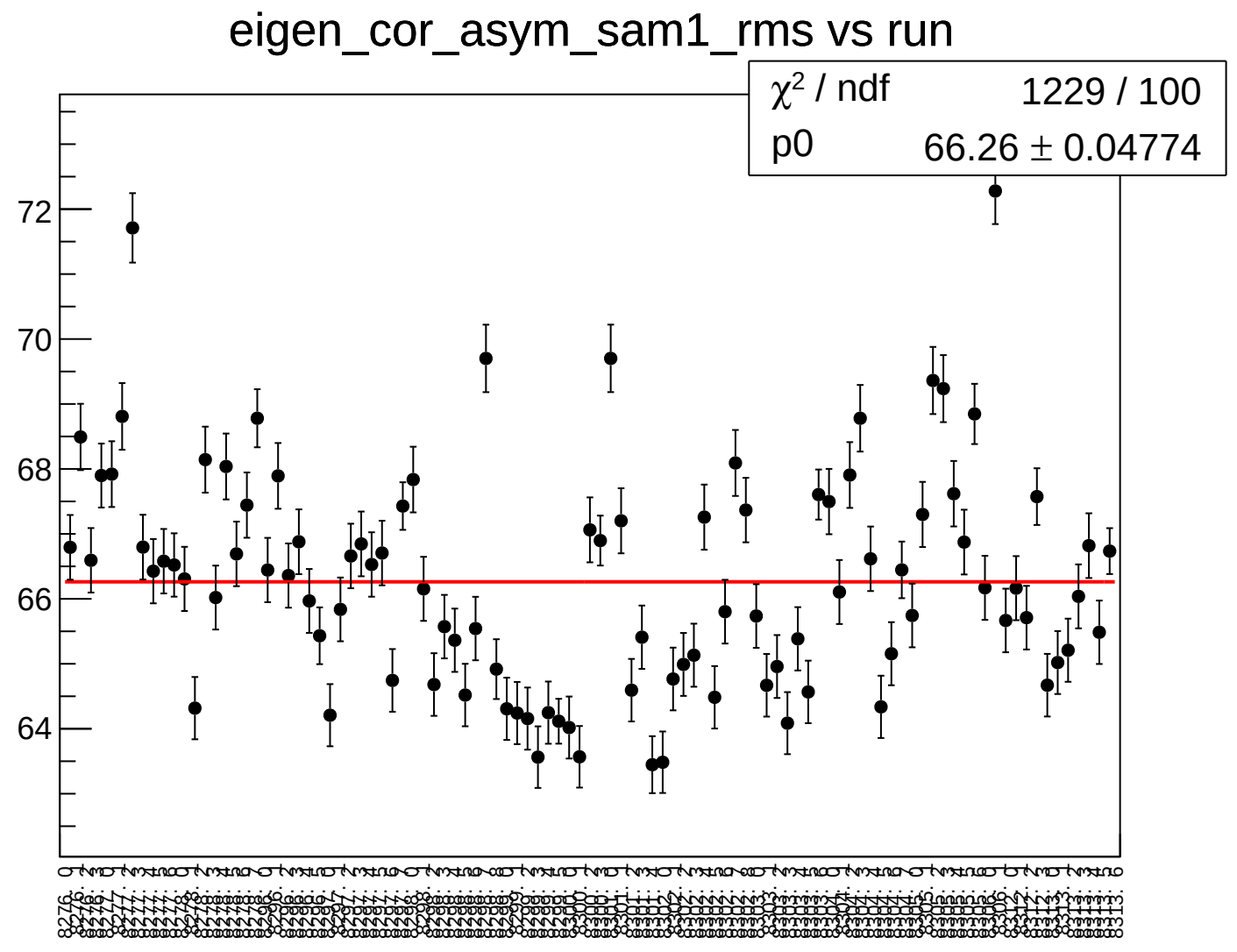

cor_asym_sam1_rms vs run
χ² / ndf 1229 / 100
p0 66.26 ± 0.04774
72
70
68
66
64

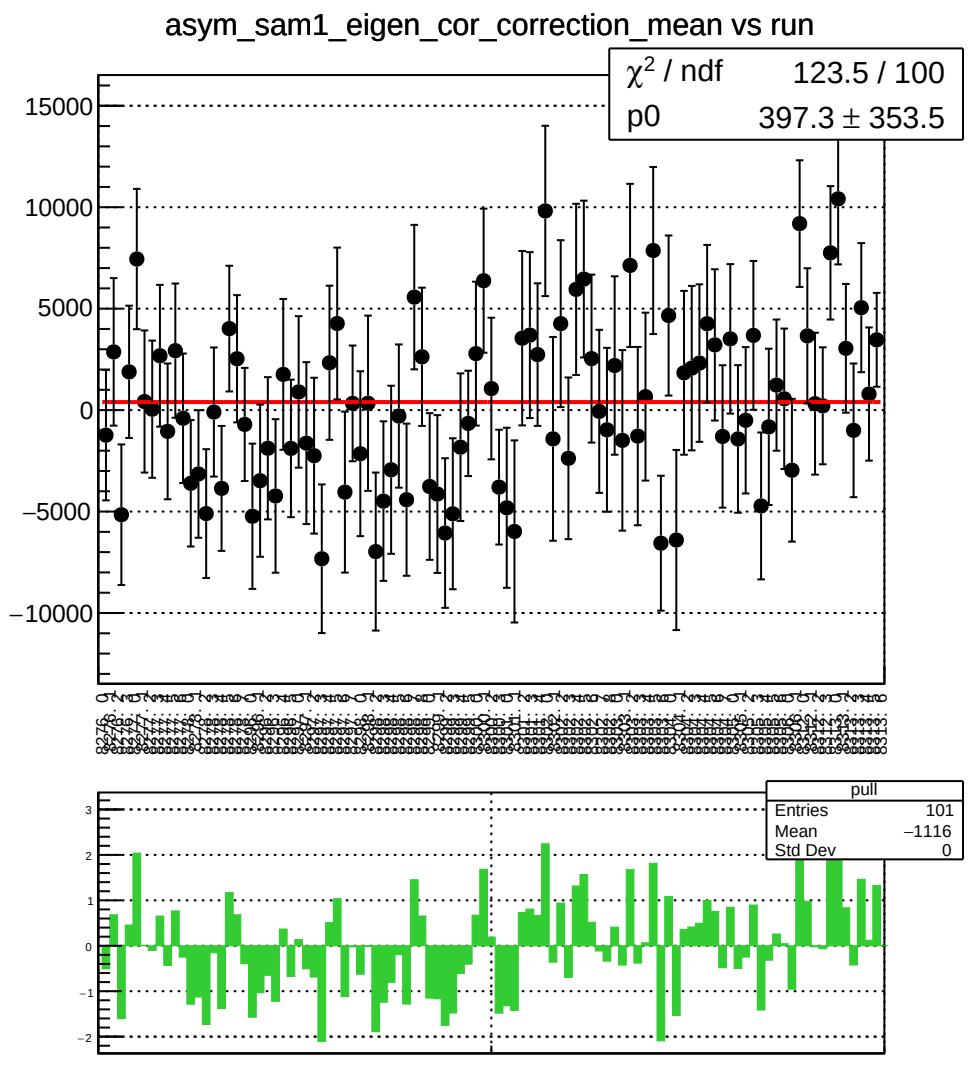

asym_sam1_cor_correction_mean vs run
χ² / ndf 123.5 / 100
p0 397.3 ± 353.5
15000
10000
5000
0
−5000
−10000
pull
Entries 101
Mean −1116
Std Dev 0
3
2
1
0
−1
−2

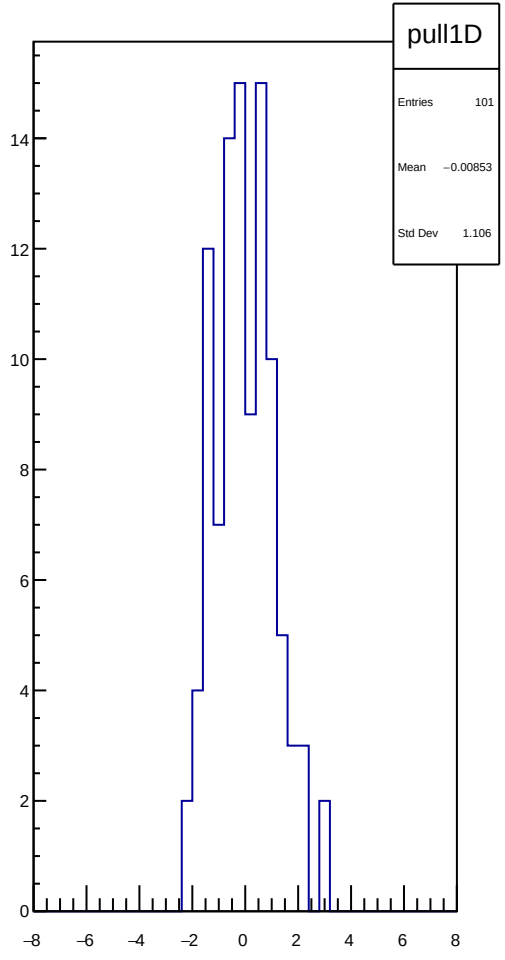

pull1D
Entries 101
Mean −0.00853
Std Dev 1.106
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

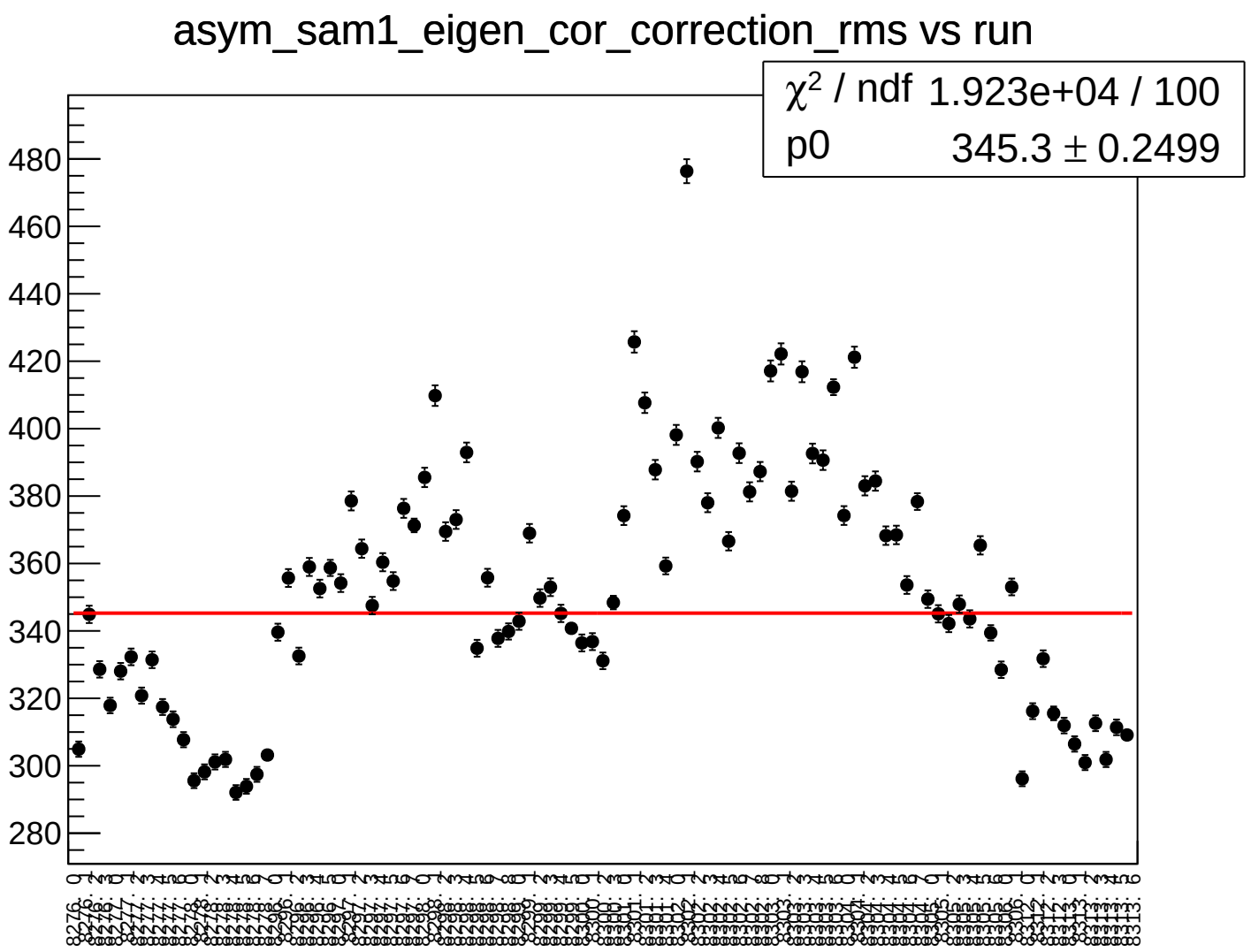

asym_sam1_cor_correction_rms vs run
χ² / ndf 1.923e+04 / 100
p0 345.3 ± 0.2499
480
460
440
420
400
380
360
340
320
300
280

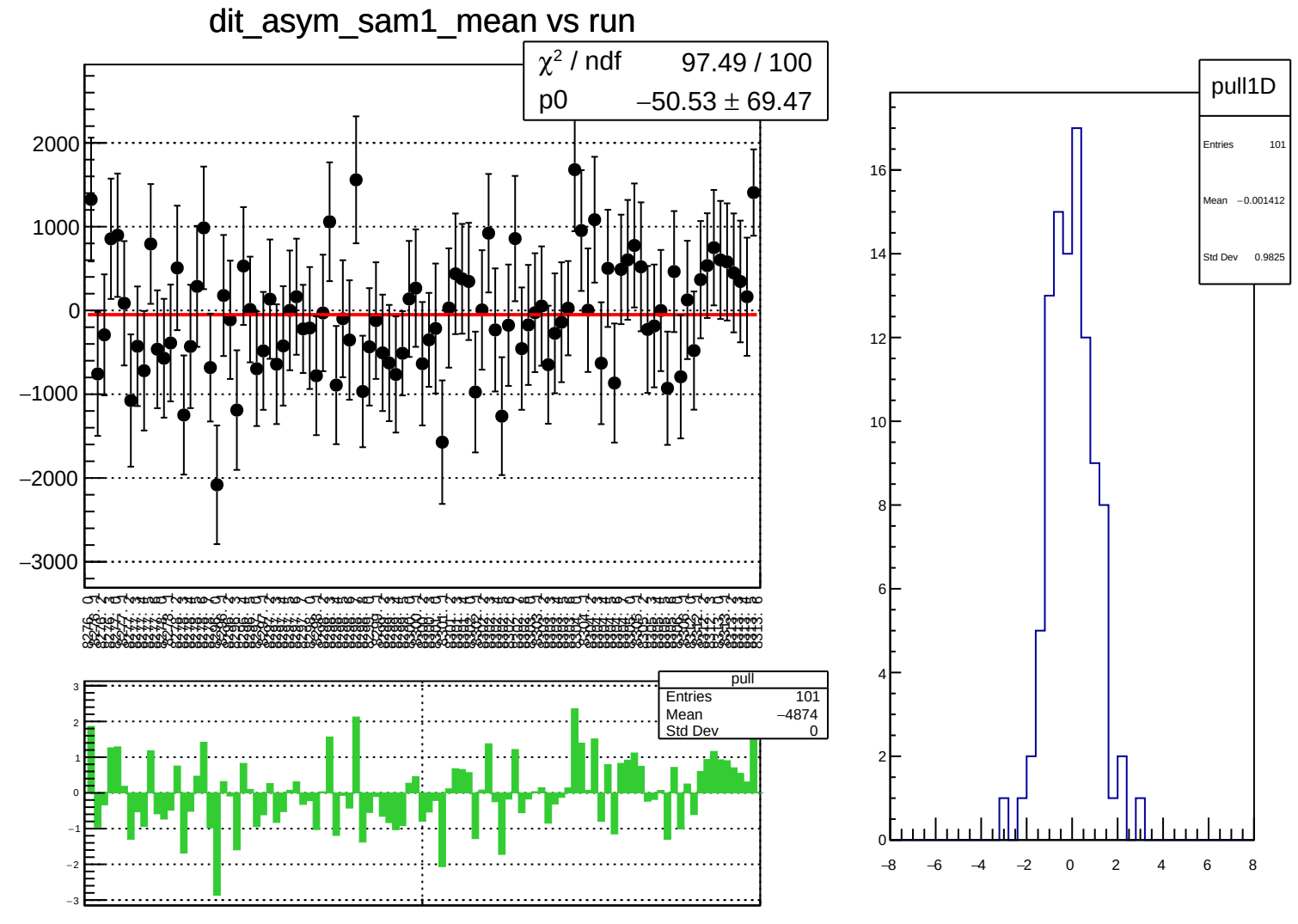

eigen_cor_asym_sam1_mean vs run
χ² / ndf 92.34 / 100
p0 −80.14 ± 67.52
2000
1000
0
−1000
−2000
−3000
pull
Entries 101
Mean −1458
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean −0.003061
Std Dev 0.9562
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

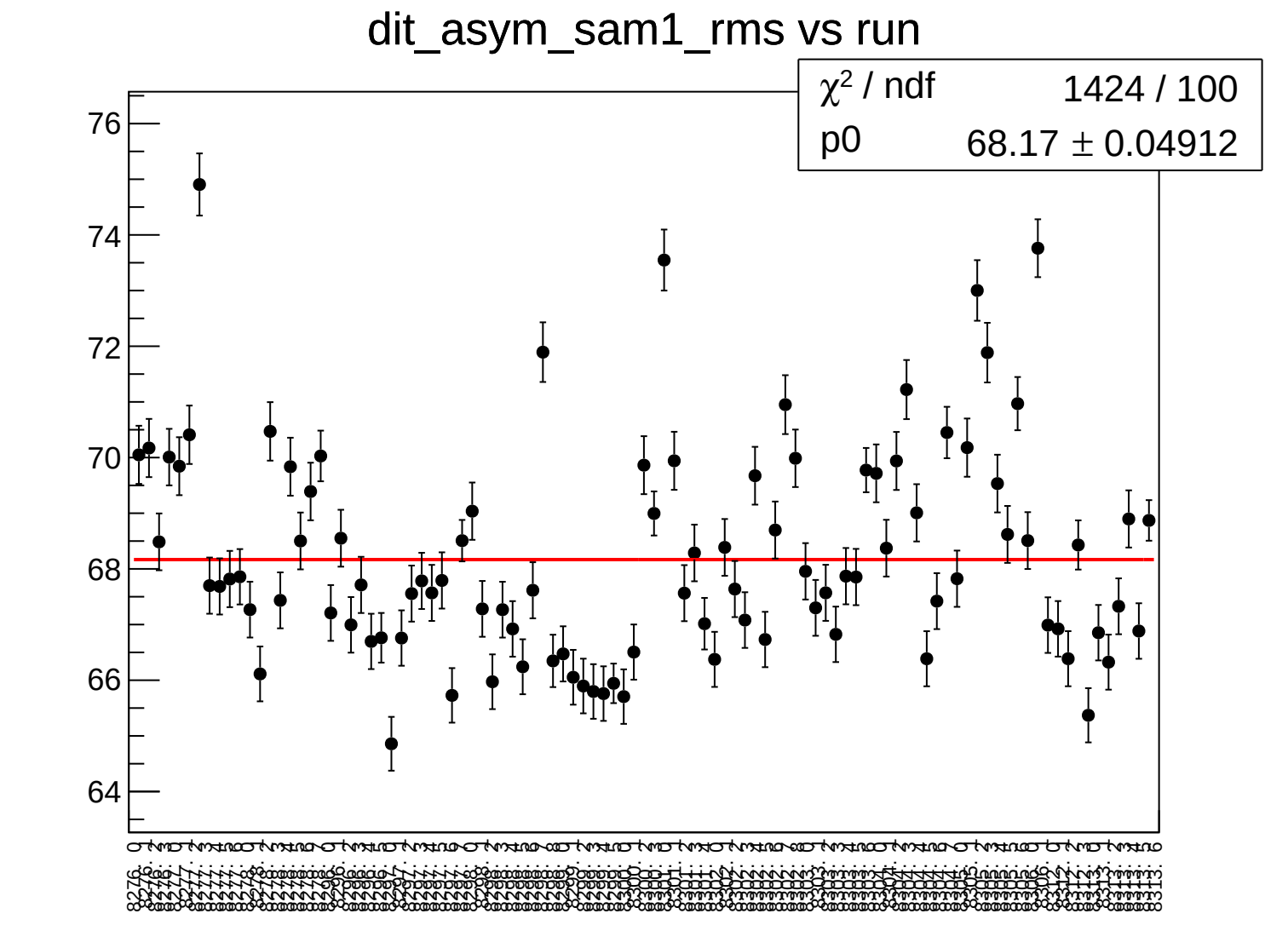

eigen_cor_asym_sam1_rms vs run
χ^2 / ndf 1229 / 100
p0 66.26 ± 0.04774
72
70
68
66
64

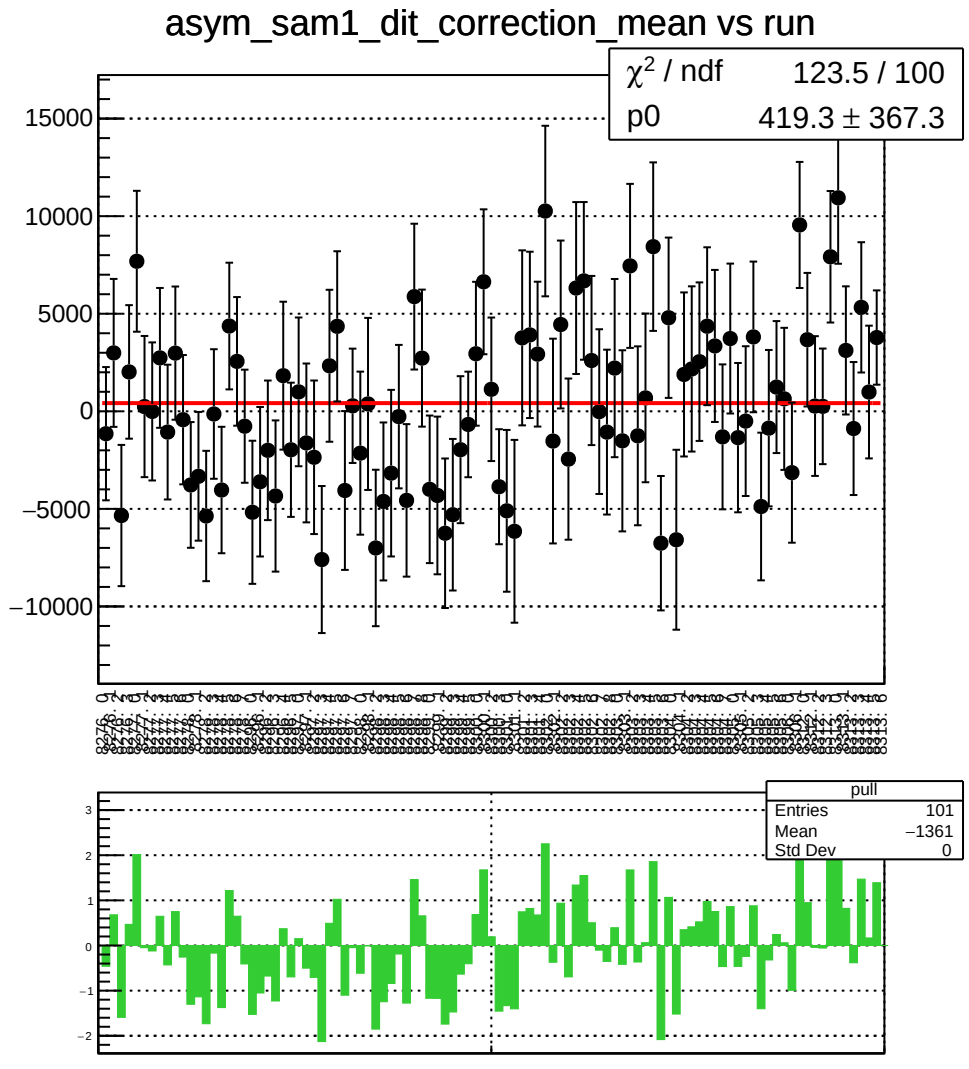

asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 123.5 / 100
p0 397.3 ± 353.5
15000
10000
5000
0
−5000
−10000
pull
Entries 101
Mean −1116
Std Dev 0
3
2
1
0
−1
−2

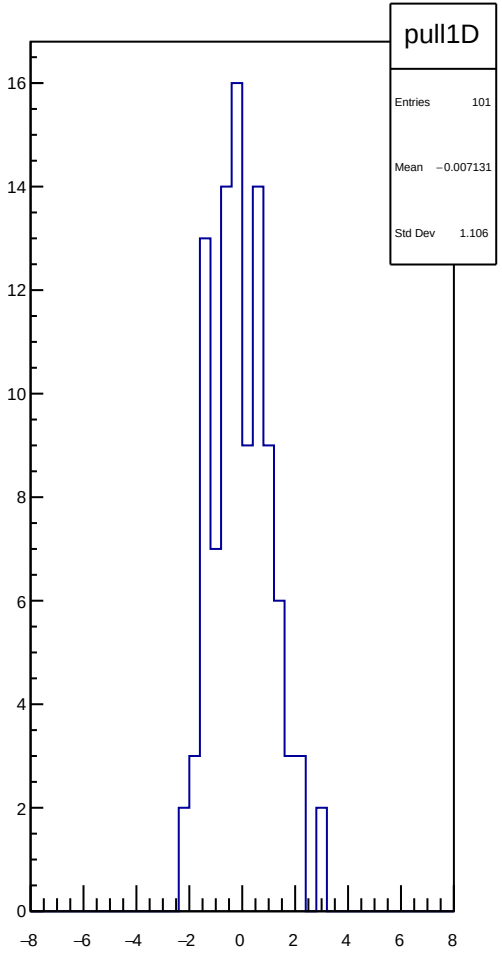

pull1D
Entries 101
Mean −0.00853
Std Dev 1.106
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

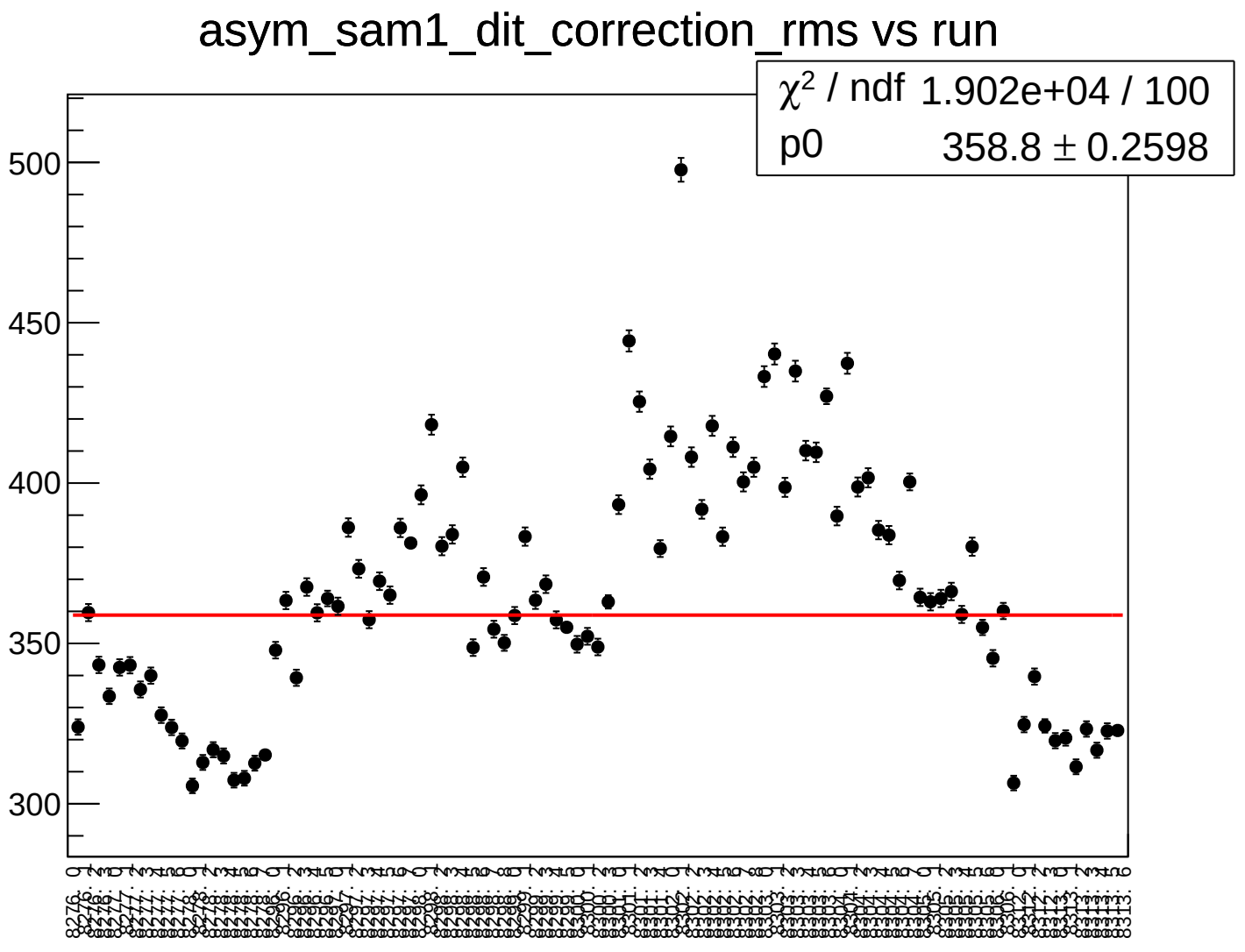

asym_sam1_eigen_cor_correction_rms vs run
χ² / ndf 1.923e+04 / 100
p0 345.3 ± 0.2499
480
460
440
420
400
380
360
340
320
300
280

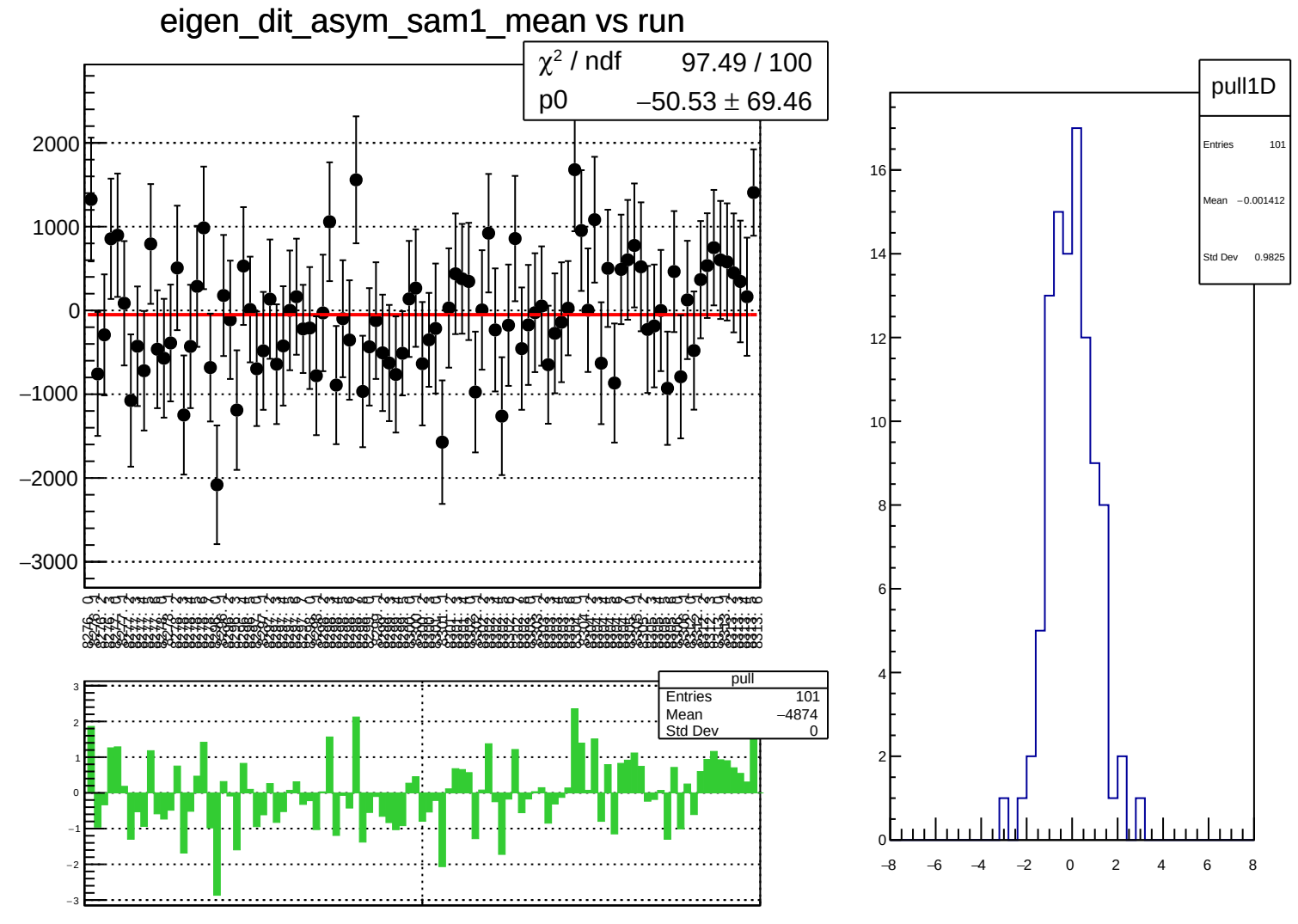

dit_asym_sam1_mean vs run
χ² / ndf 97.49 / 100
p0 −50.53 ± 69.47
2000
1000
0
−1000
−2000
−3000
pull
Entries 101
Mean −4874
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean −0.001412
Std Dev 0.9825
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

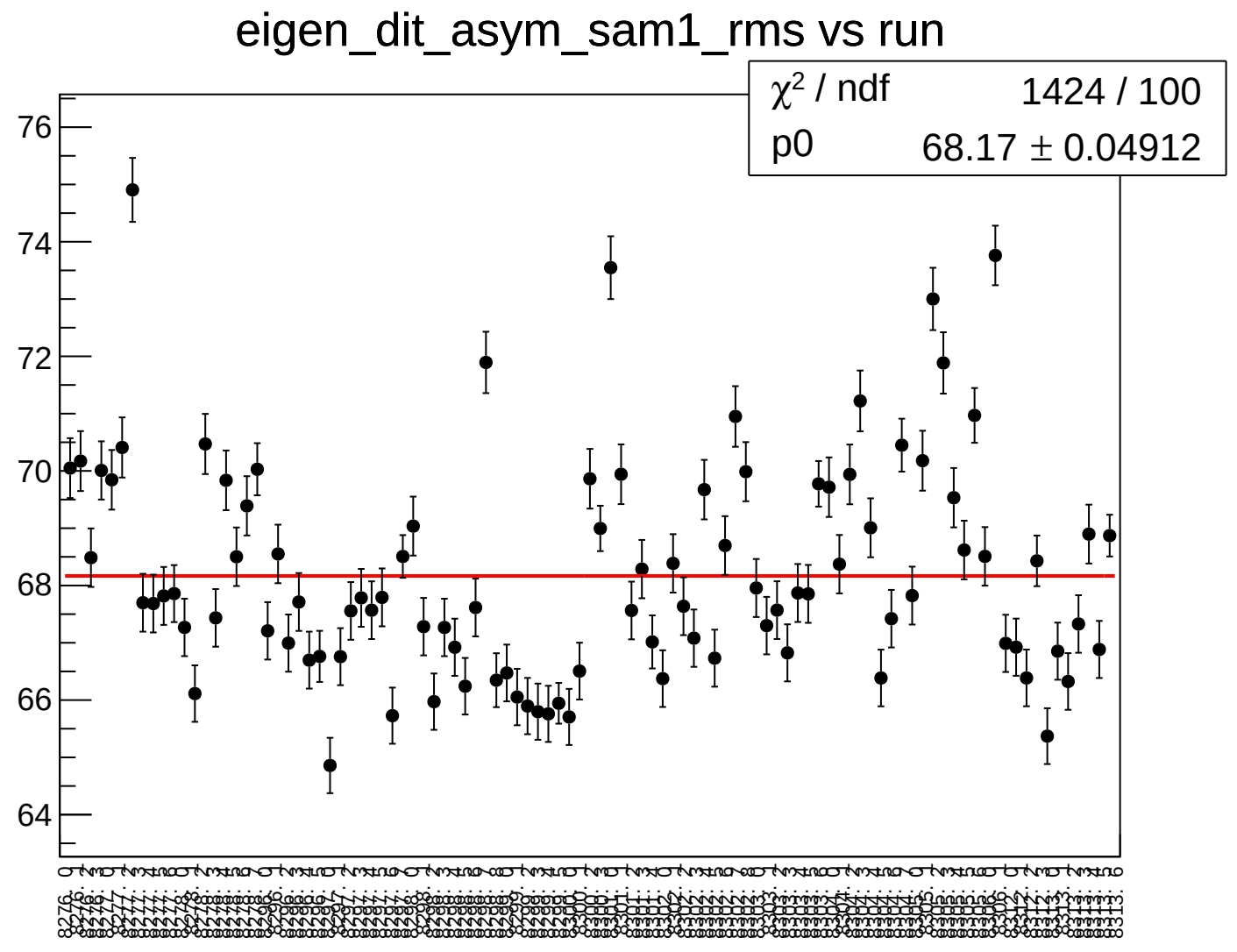

dit_asym_sam1_rms vs run
χ^2 / ndf 1424 / 100
p0 68.17 ± 0.04912
76
74
72
70
68
66
64

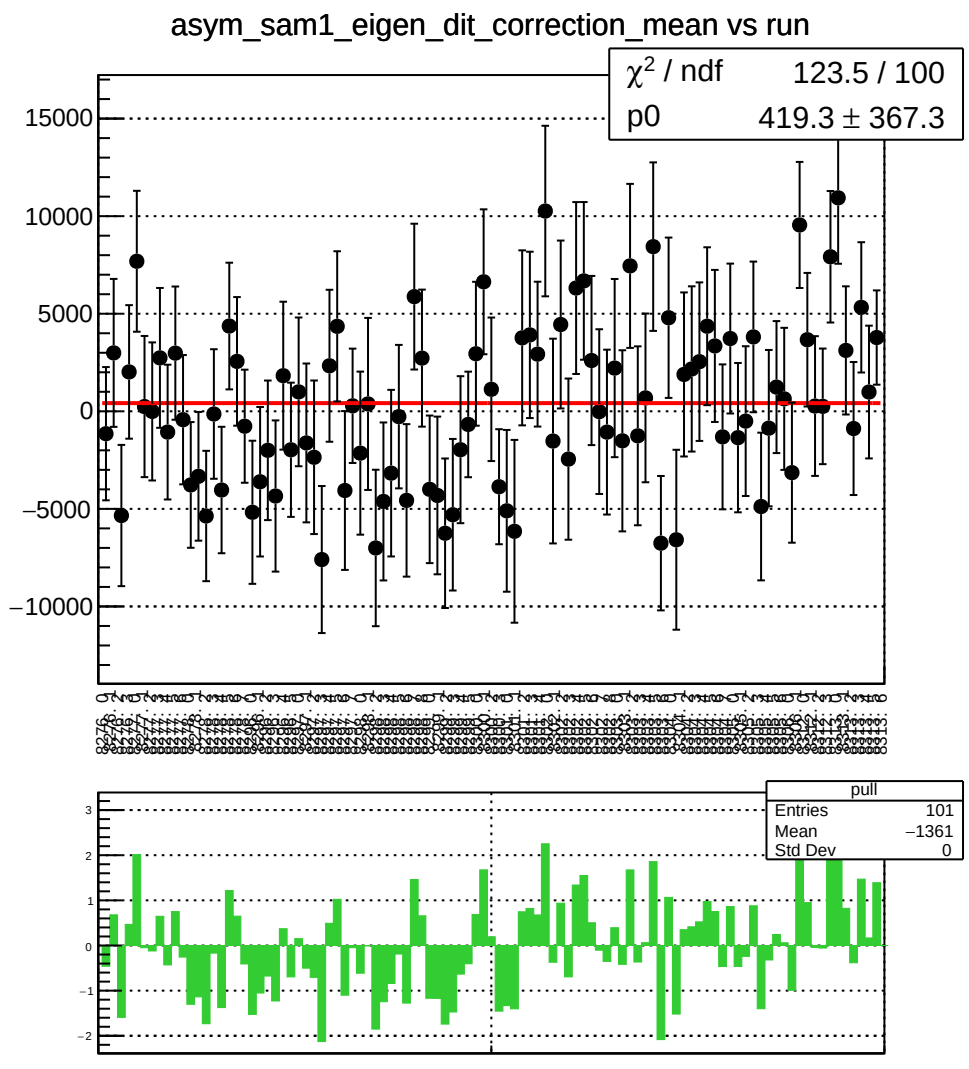

asym_sam1_dit_correction_mean vs run
χ² / ndf 123.5 / 100
p0 419.3 ± 367.3
15000
10000
5000
0
−5000
−10000
pull
Entries 101
Mean −1361
Std Dev 0
3
2
1
0
−1
−2

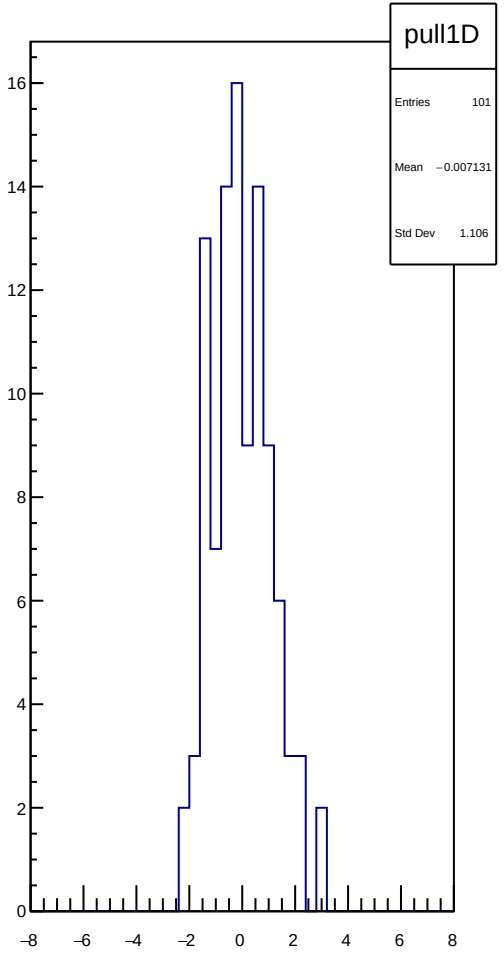

pull1D
Entries 101
Mean −0.007131
Std Dev 1.106
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

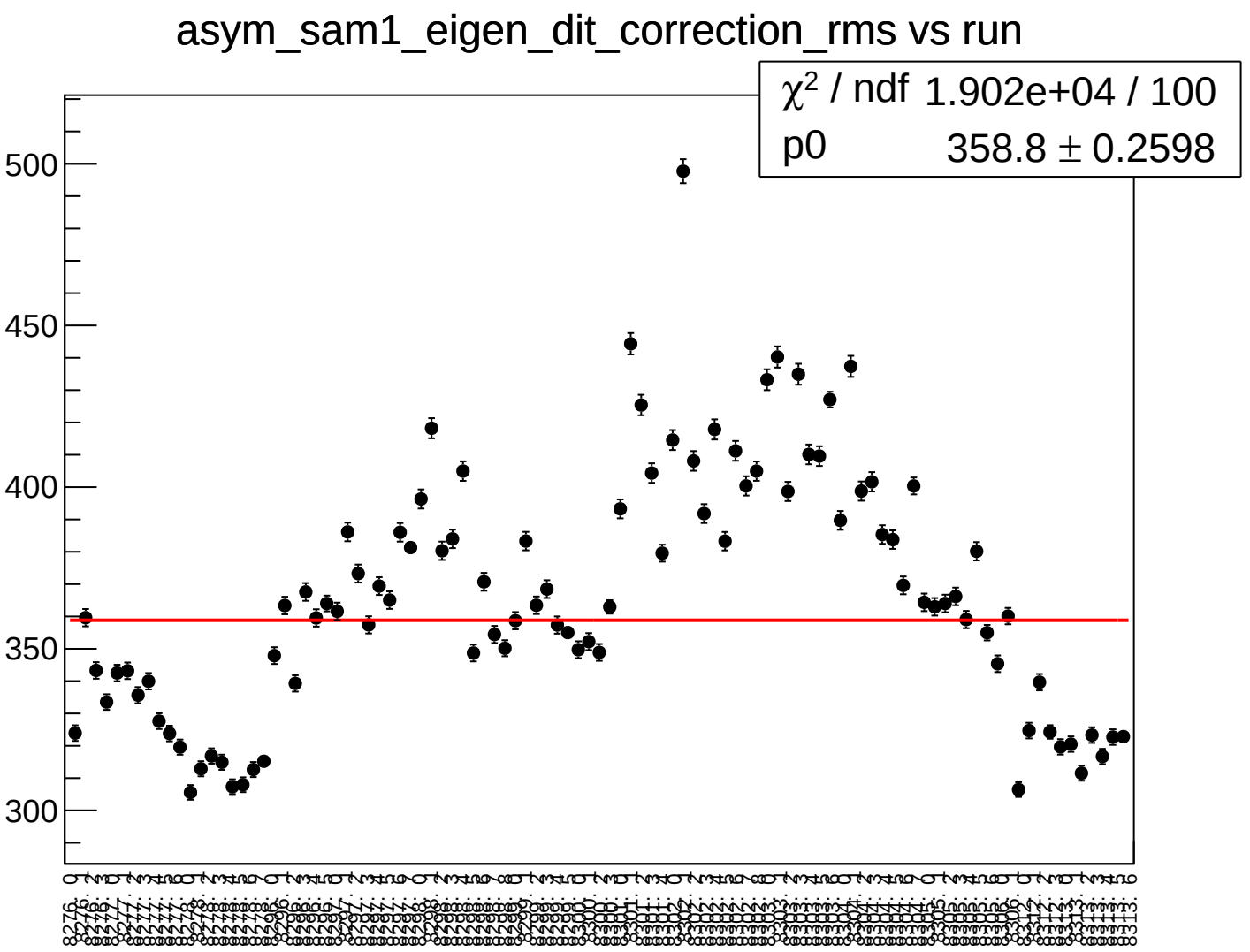

asym_sam1_dit_correction_rms vs run
χ² / ndf 1.902e+04 / 100
p0 358.8 ± 0.2598
500
450
400
350
300

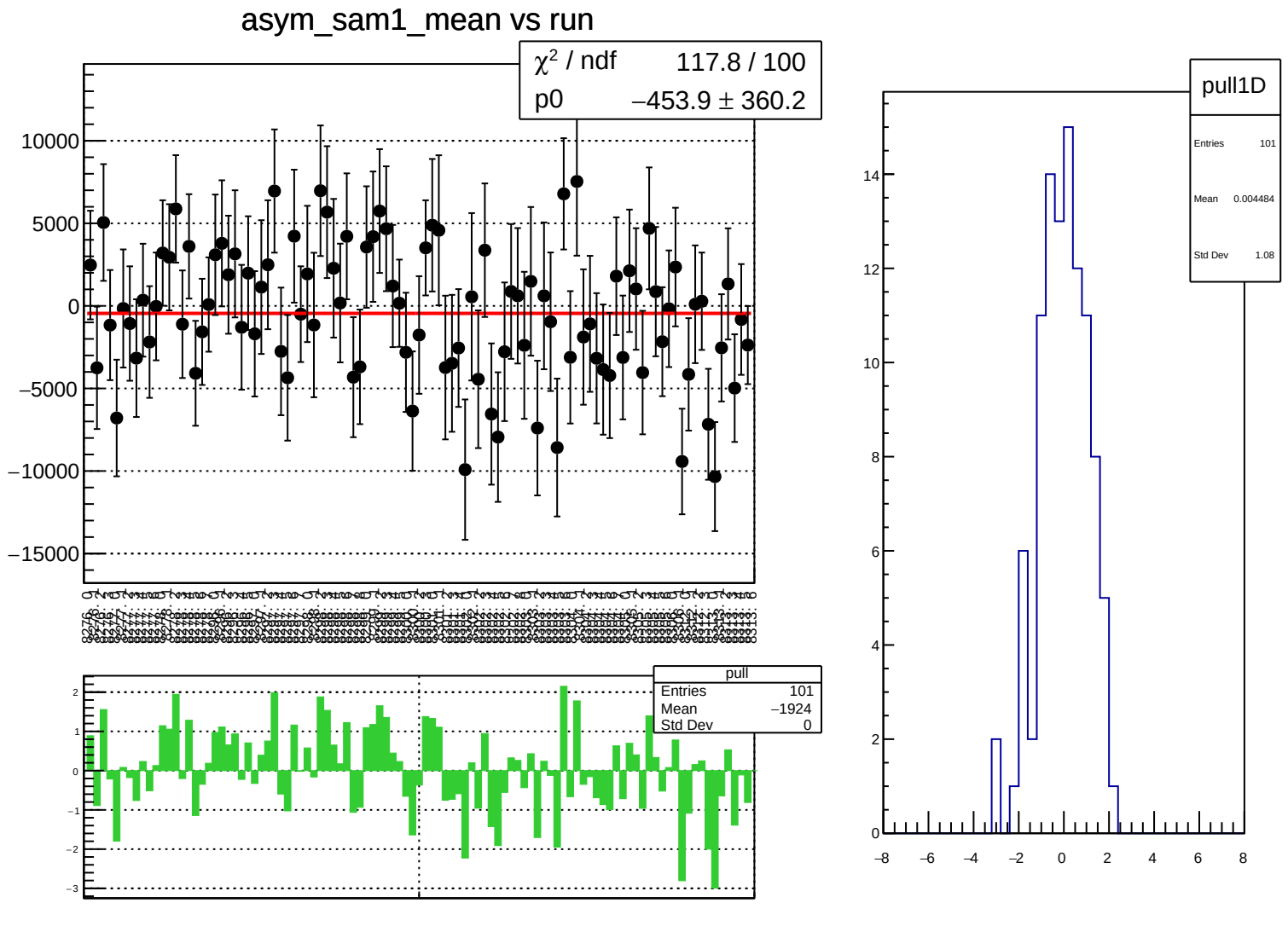

eigen_dit_asym_sam1_mean vs run
χ² / ndf 97.49 / 100
p0 −50.53 ± 69.46
2000
1000
0
−1000
−2000
−3000
pull
Entries 101
Mean −4874
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean −0.001412
Std Dev 0.9825
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

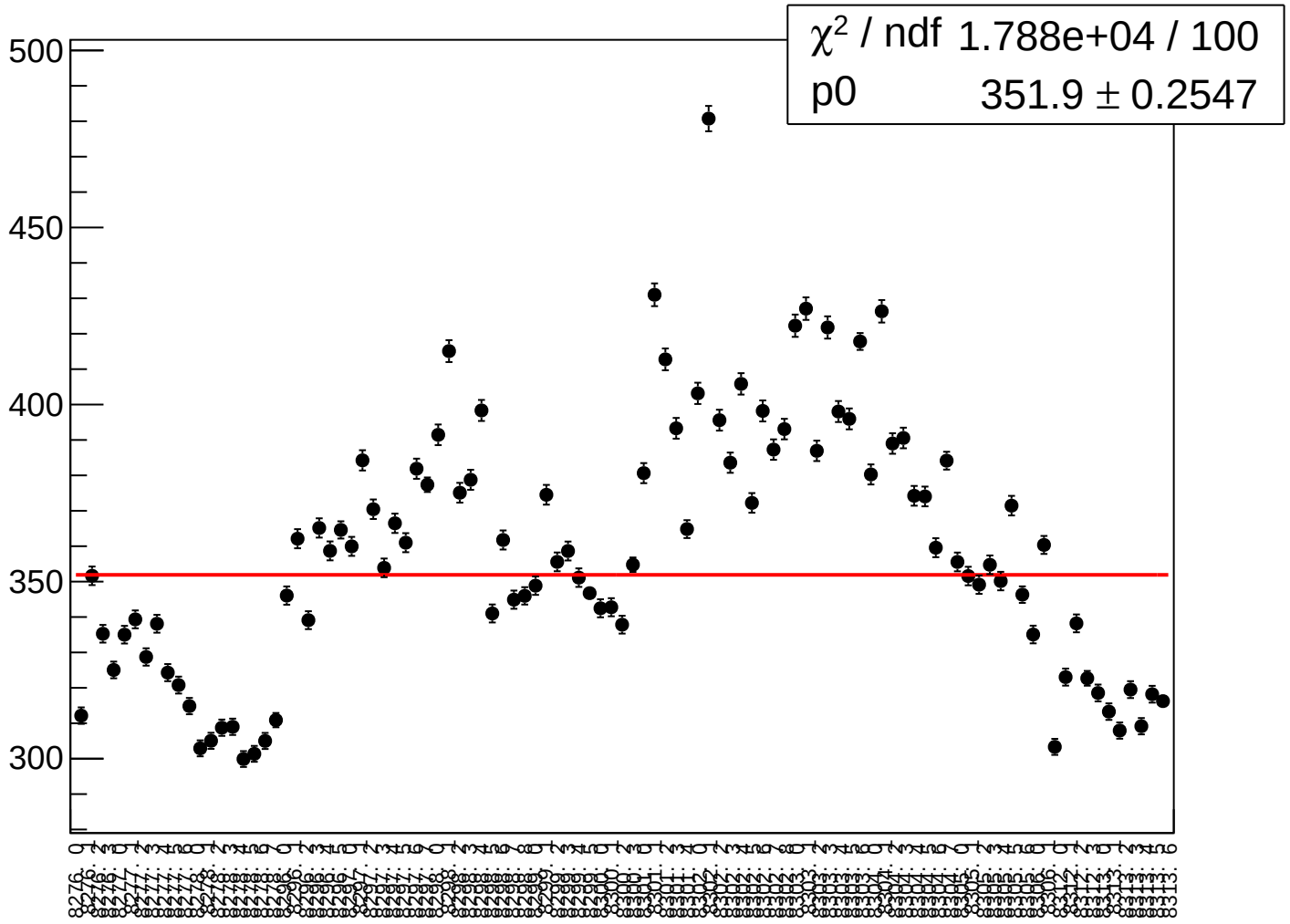

eigen_dit_asym_sam1_rms vs run
χ² / ndf 1424 / 100
p0 68.17 ± 0.04912
76
74
72
70
68
66
64

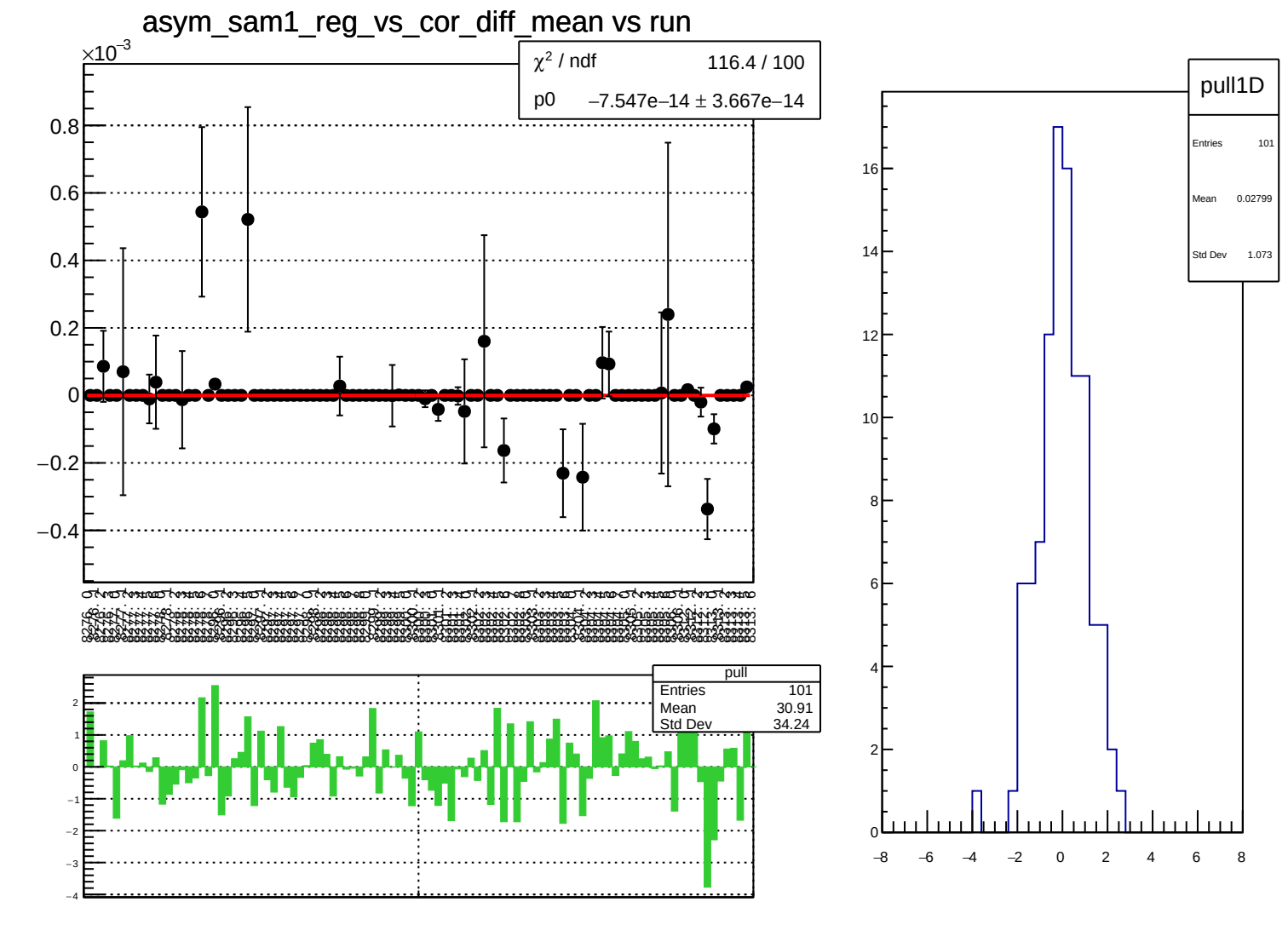

asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 123.5 / 100
p0 419.3 ± 367.3
15000
10000
5000
0
−5000
−10000
pull
Entries 101
Mean −1361
Std Dev 0
3
2
1
0
−1
−2

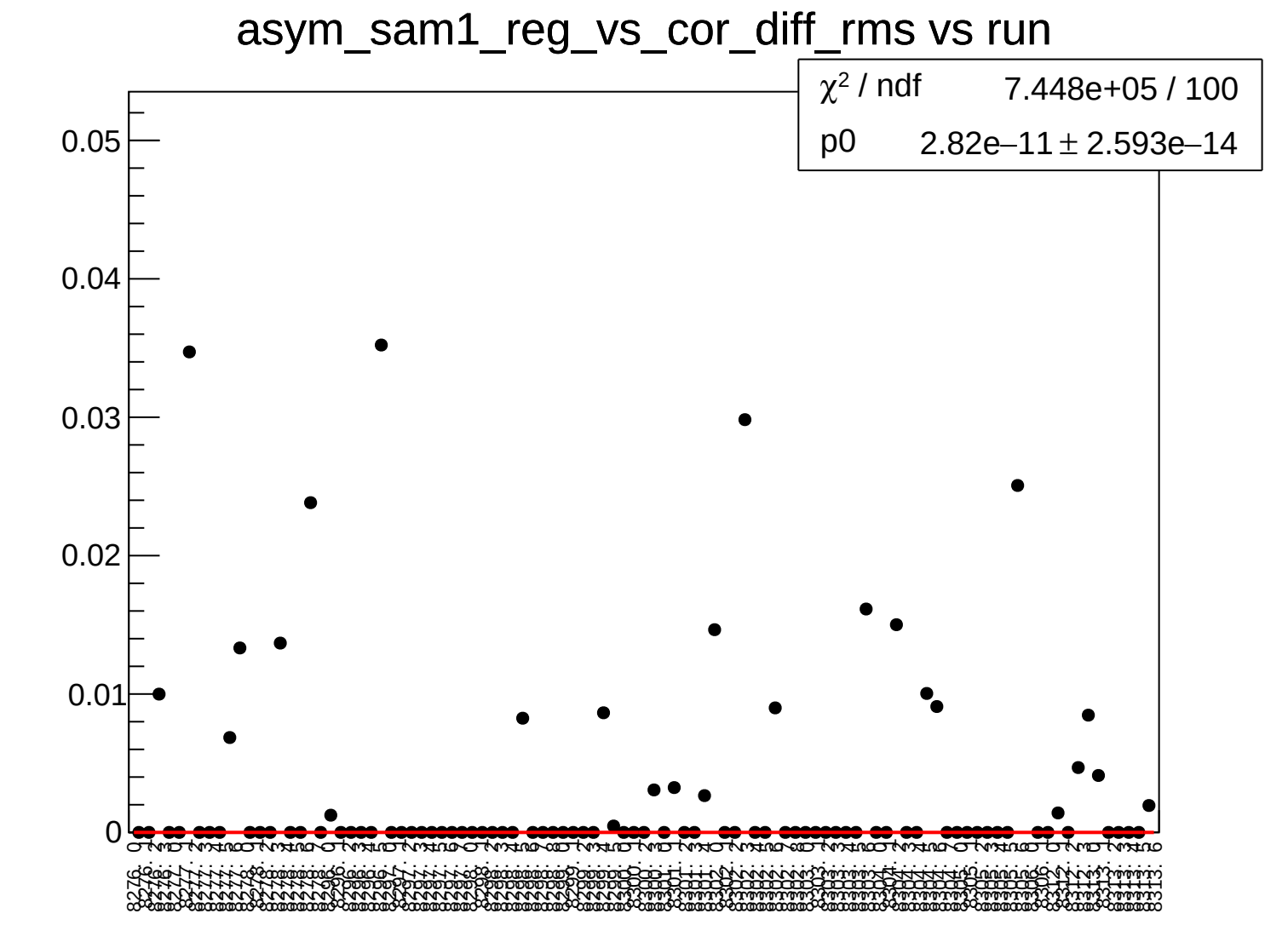

pull1D
Entries 101
Mean −0.007131
Std Dev 1.106
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

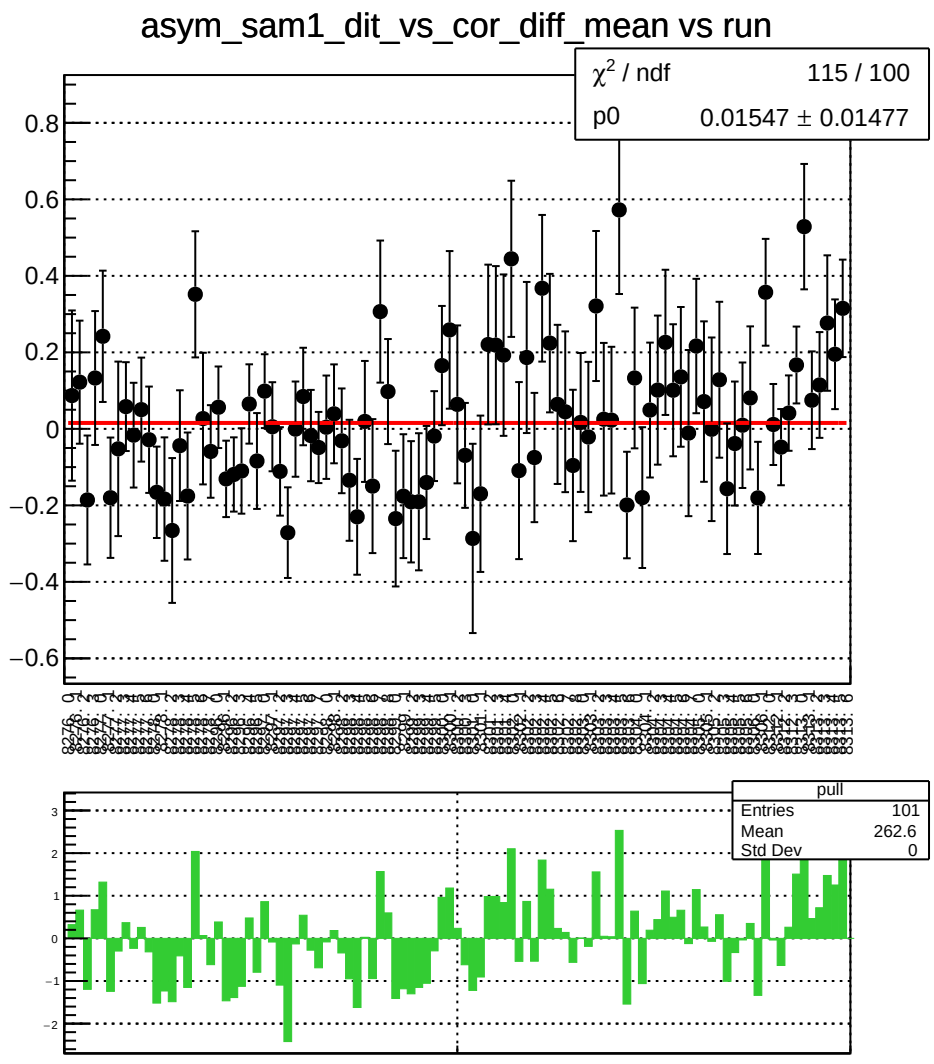

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 1.902e+04 / 100
p0 358.8 ± 0.2598
500
450
400
350
300

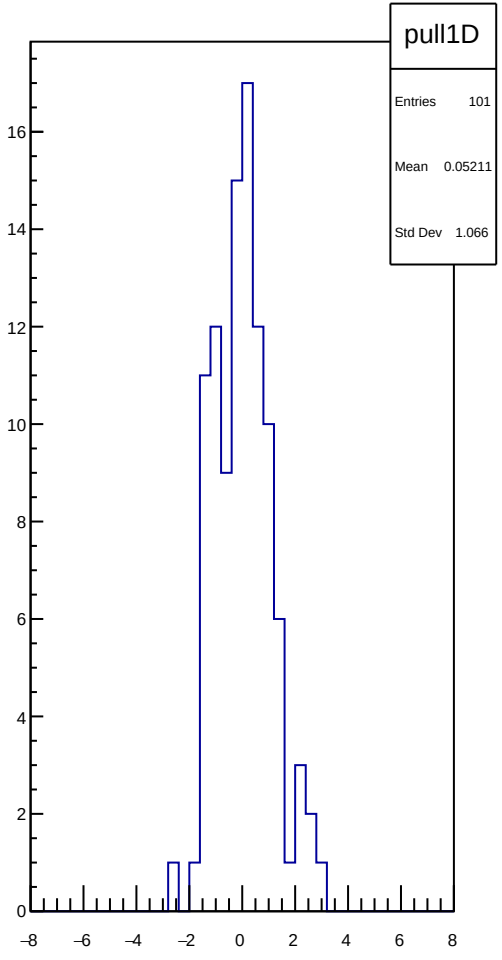

asym_sam1_mean vs run
χ² / ndf 117.8 / 100
p0 −453.9 ± 360.2
10000
5000
0
−5000
−10000
−15000
pull
Entries 101
Mean −1924
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.004484
Std Dev 1.08
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

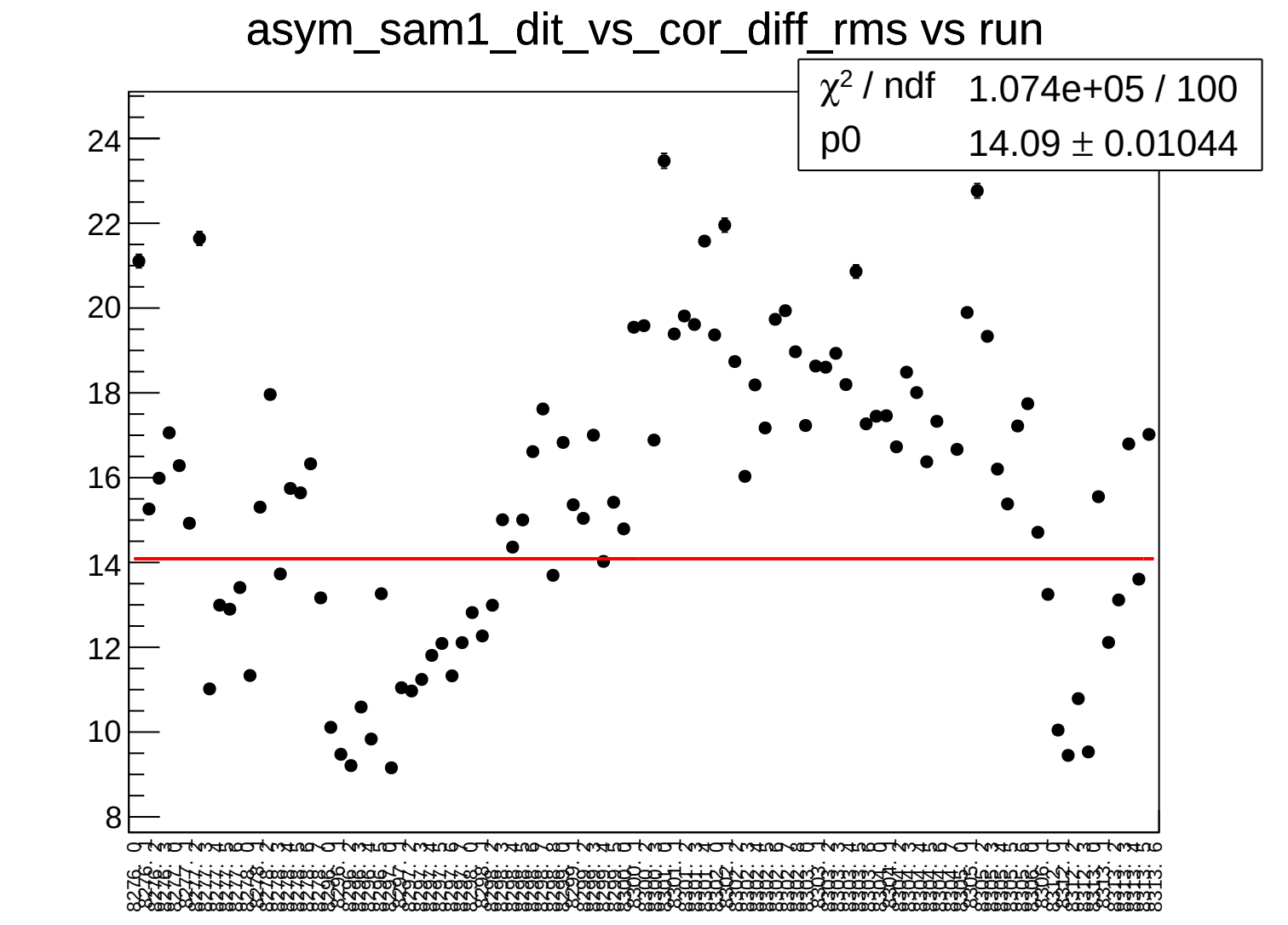

asym_sam1_rms vs run
χ² / ndf 1.788e+04 / 100
p0 351.9 ± 0.2547
500
450
400
350
300

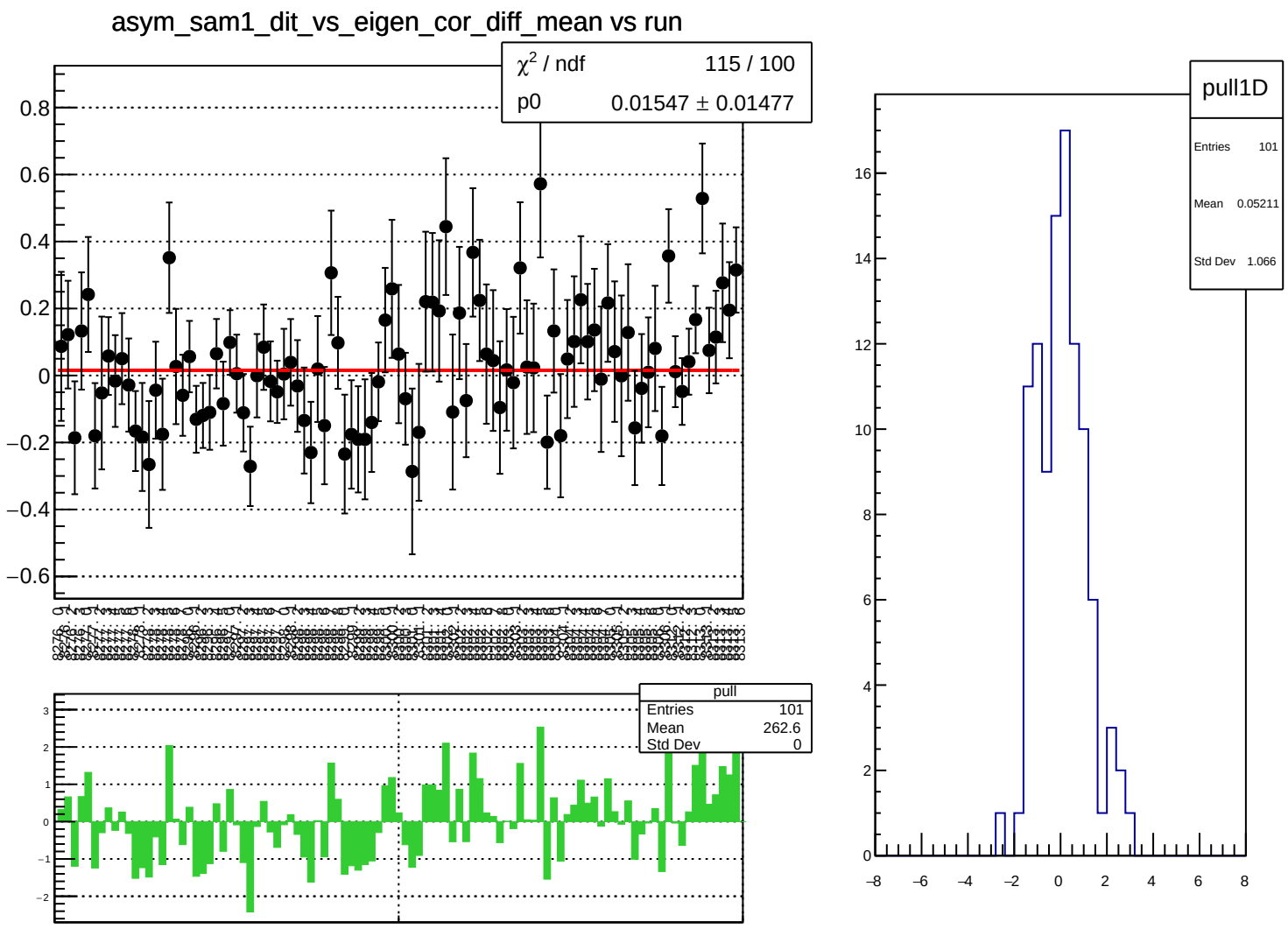

asym_sam1_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 116.4 / 100
p0 −7.547e−14 ± 3.667e−14
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 101
Mean 30.91
Std Dev 34.24
2
1
0
−1
−2
−3
−4
pull1D
Entries 101
Mean 0.02799
Std Dev 1.073
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

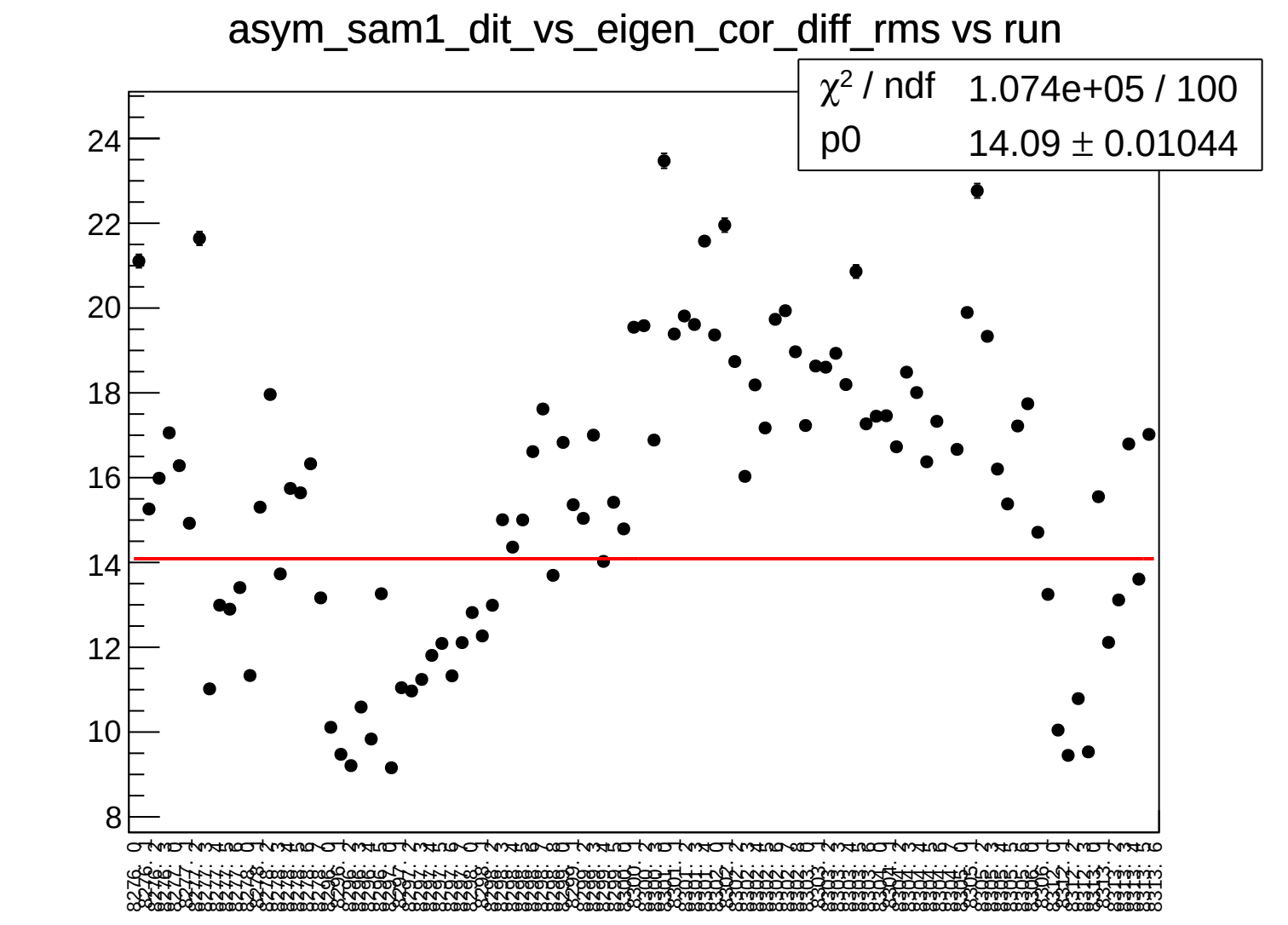

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 7.448e+05 / 100
p0 2.82e−11 ± 2.593e−14
0.05
0.04
0.03
0.02
0.01
0

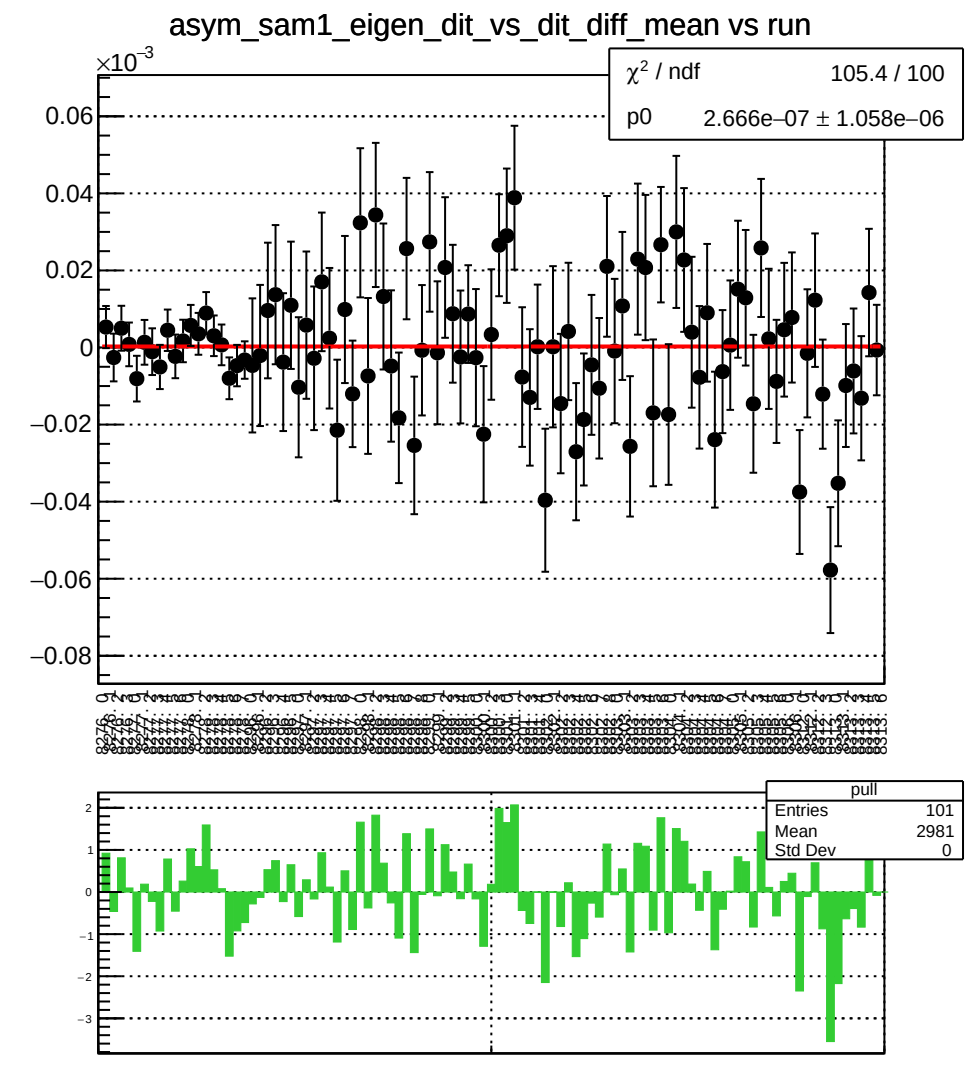

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 115 / 100
p0 0.01547 ± 0.01477
pull
Entries 101
Mean 262.6
Std Dev 0

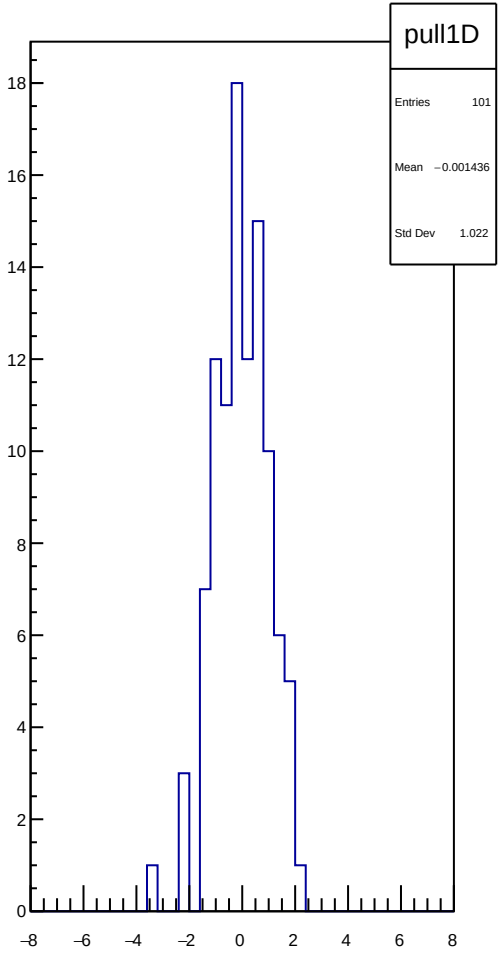

pull1D
Entries 101
Mean 0.05211
Std Dev 1.066

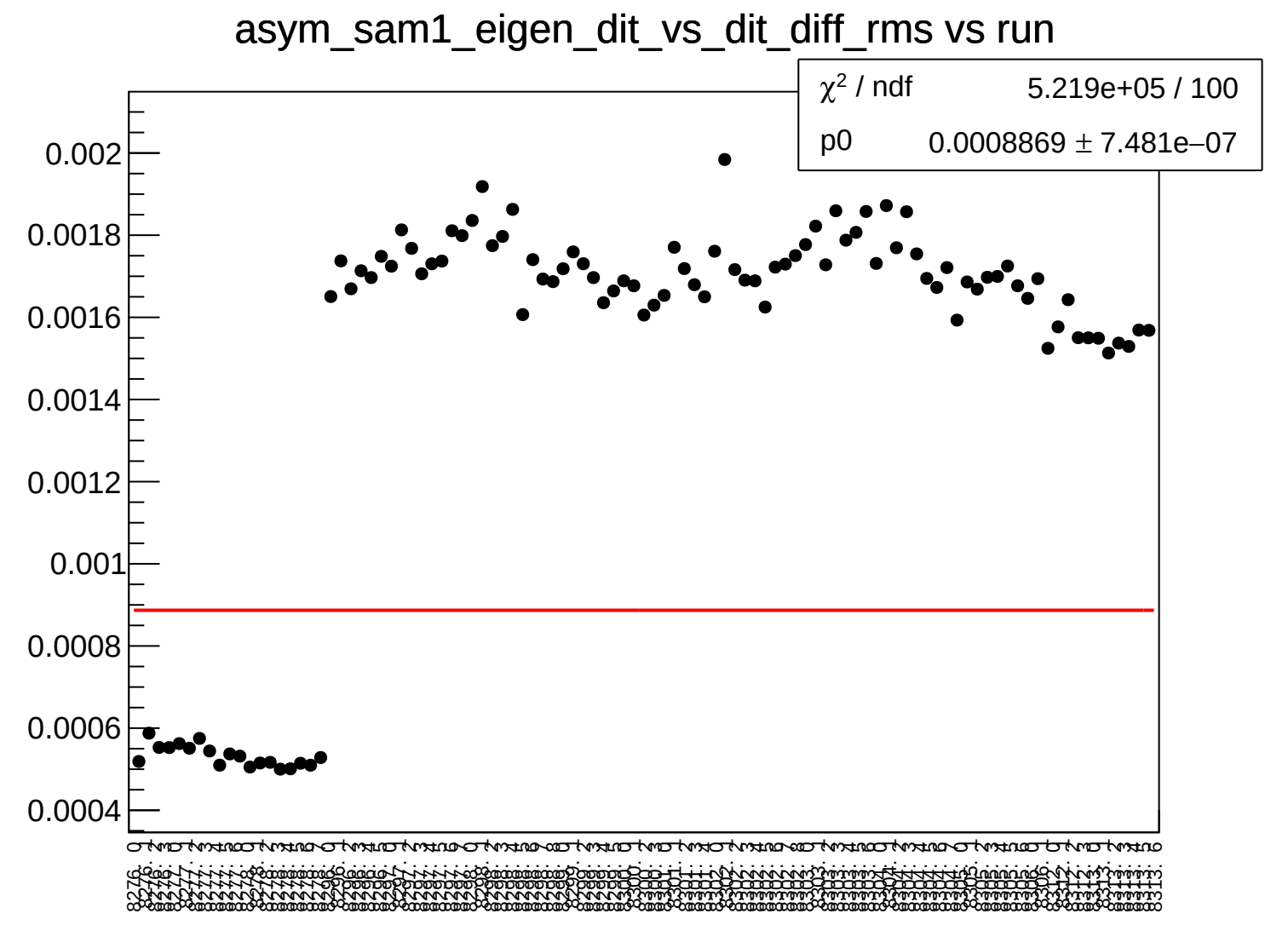

asym_sam1_dit_vs_cor_diff_rms vs run
χ² / ndf 1.074e+05 / 100
p0 14.09 ± 0.01044
24
22
20
18
16
14
12
10
8

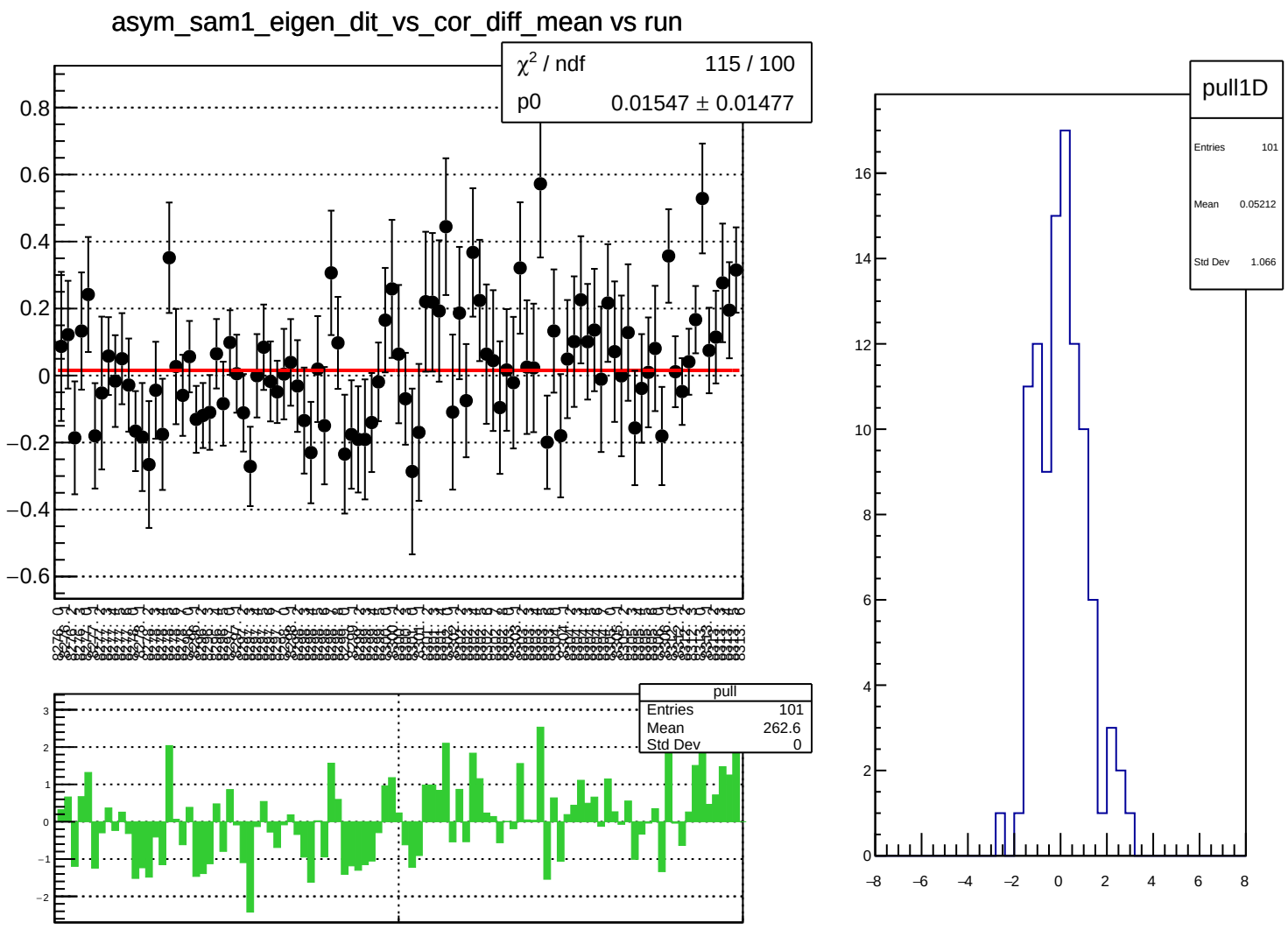

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 115 / 100
p0 0.01547 ± 0.01477
pull
Entries 101
Mean 262.6
Std Dev 0
pull1D
Entries 101
Mean 0.05211
Std Dev 1.066

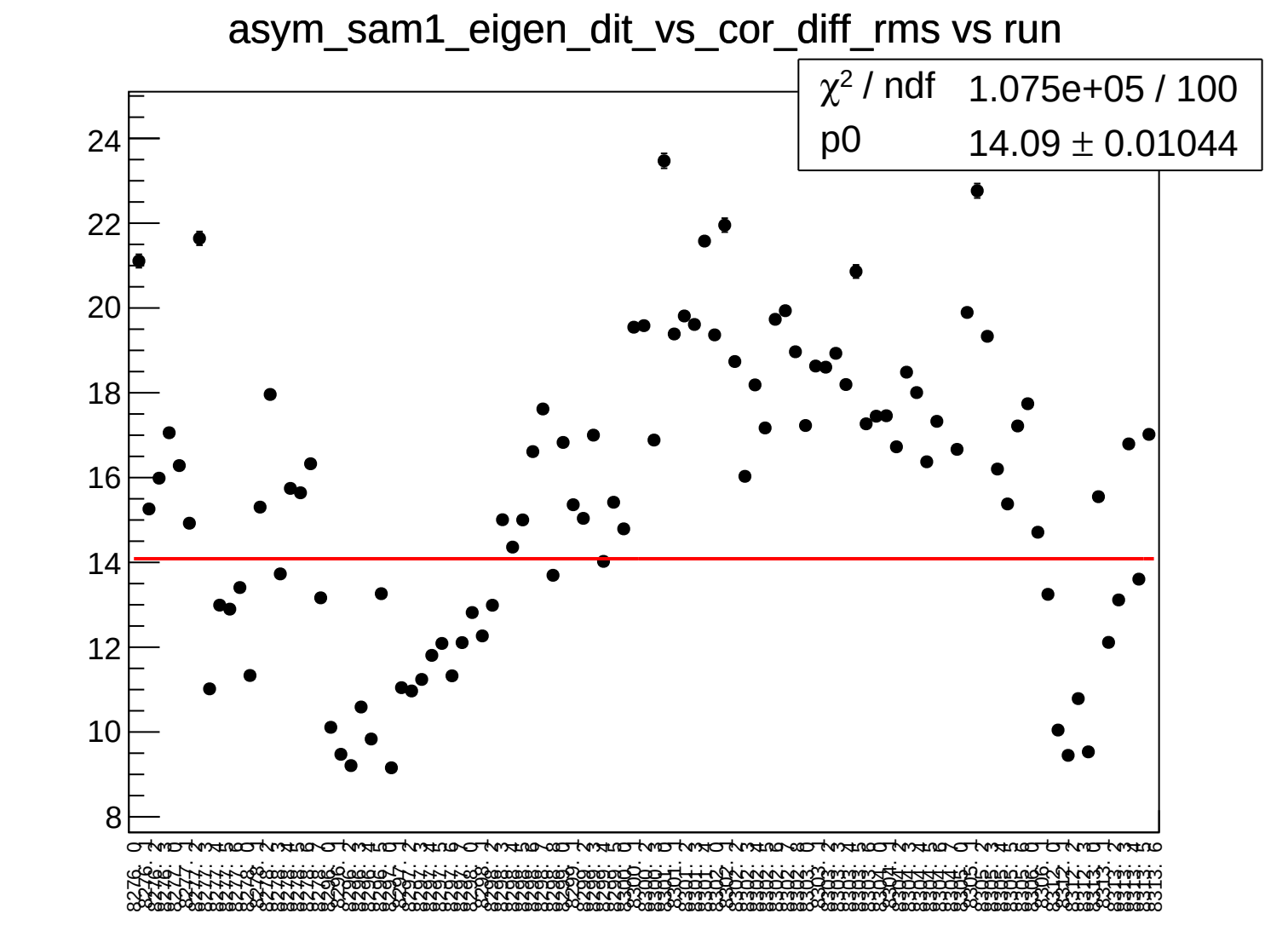

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.074e+05 / 100
p0 14.09 ± 0.01044
24
22
20
18
16
14
12
10
8

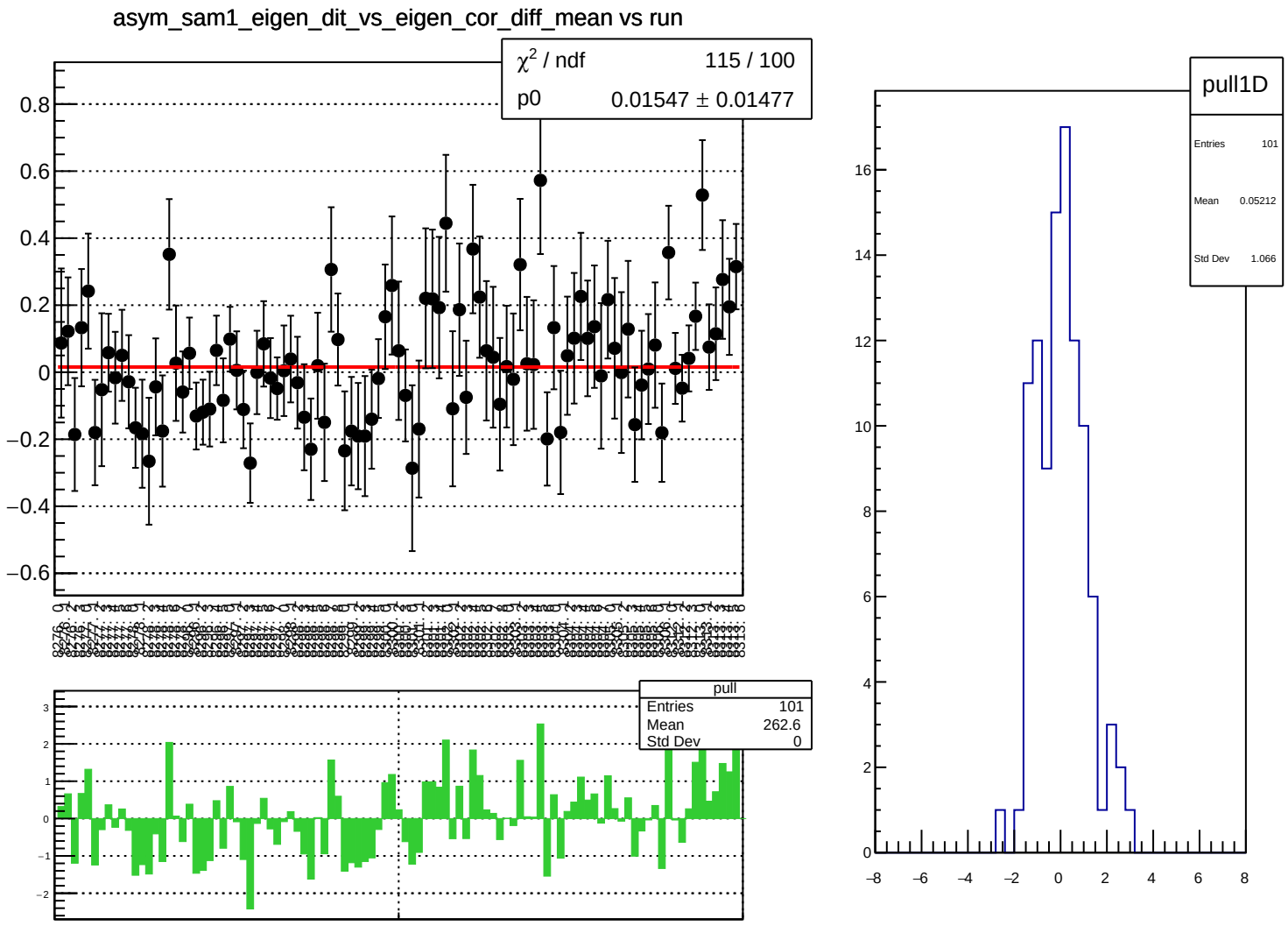

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 105.4 / 100
p0 2.666e−07 ± 1.058e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 101
Mean 2981
Std Dev 0
2
1
0
−1
−2
−3

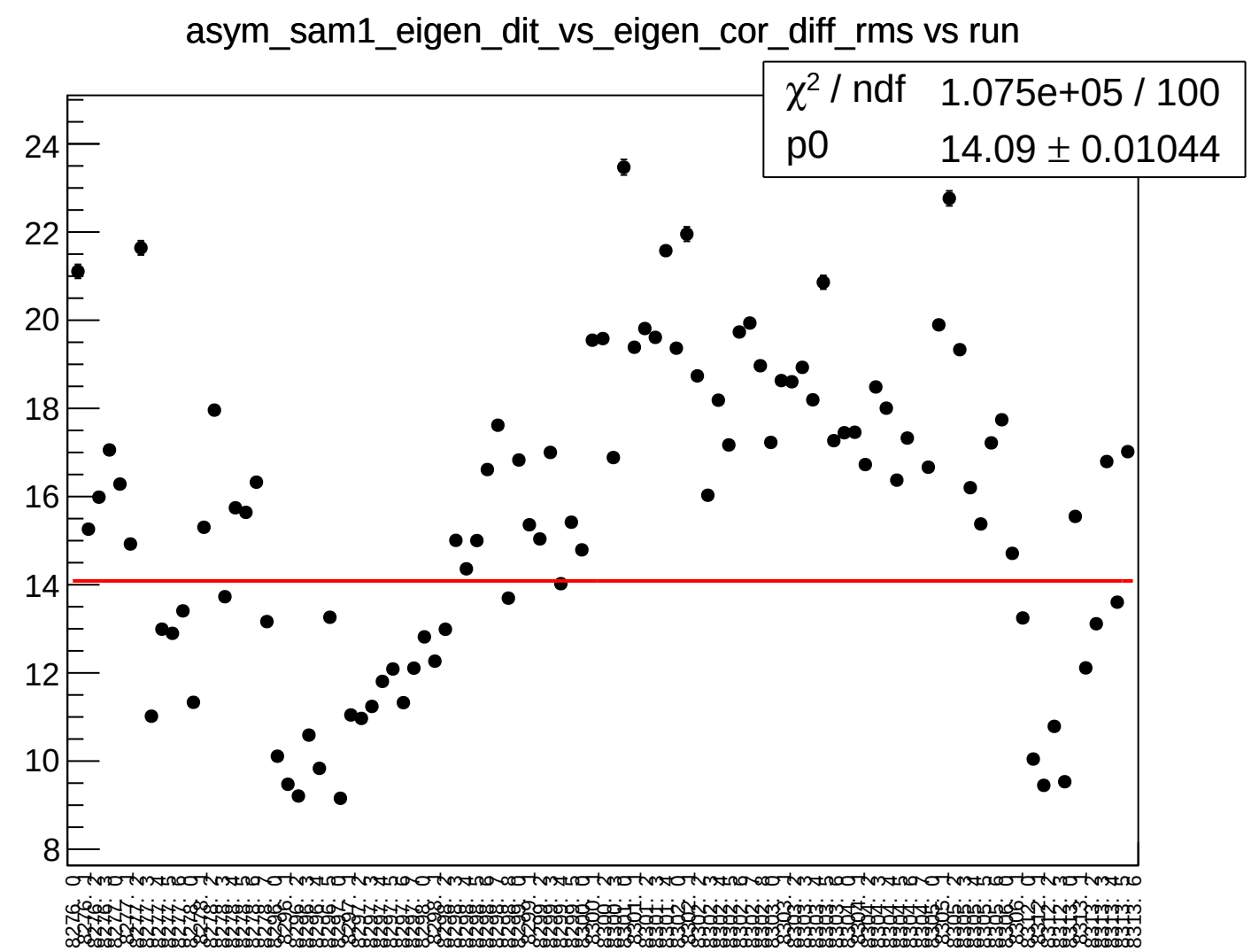

pull1D
Entries 101
Mean −0.001436
Std Dev 1.022
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

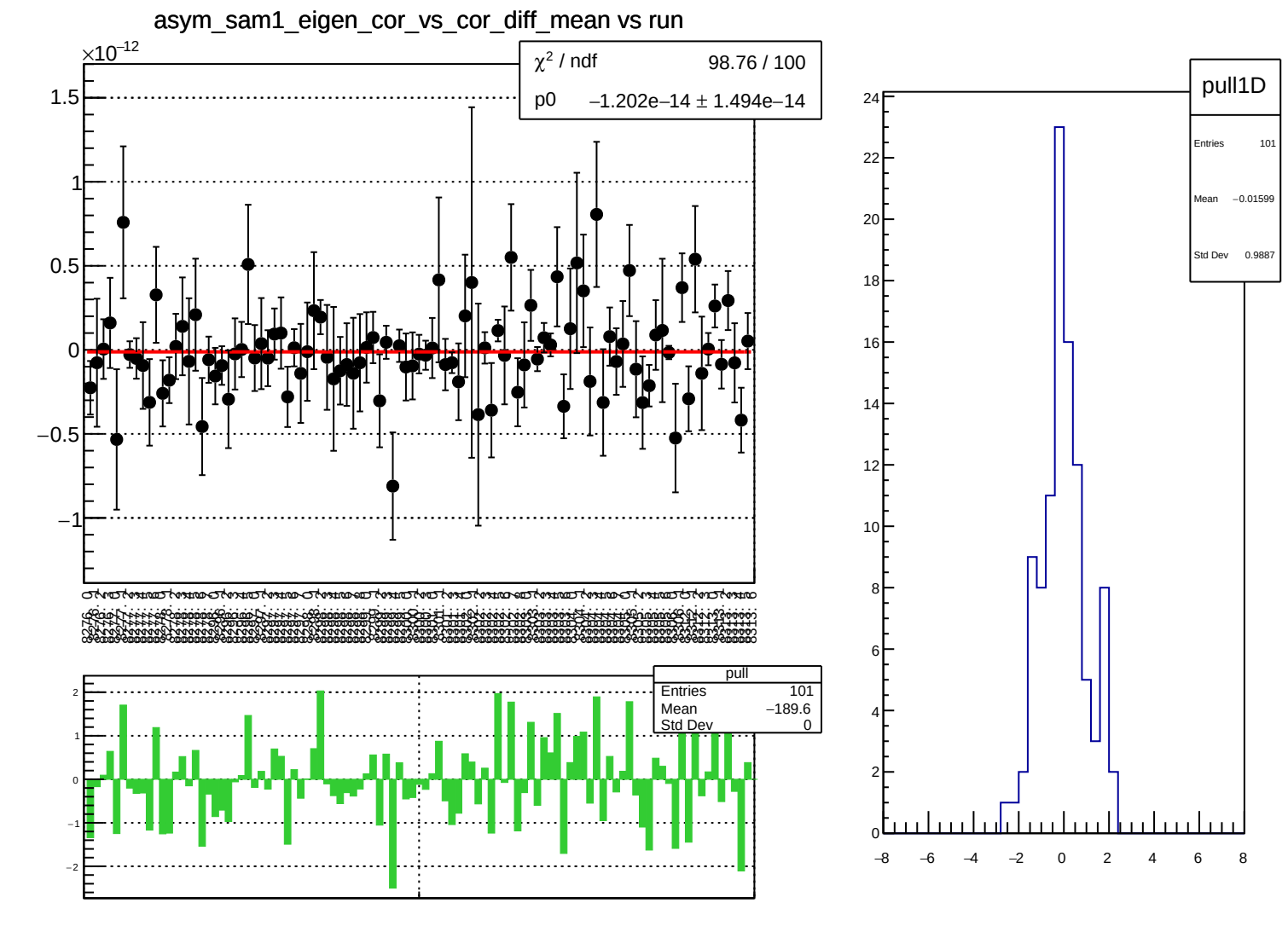

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.219e+05 / 100
p0 0.0008869 ± 7.481e−07
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004

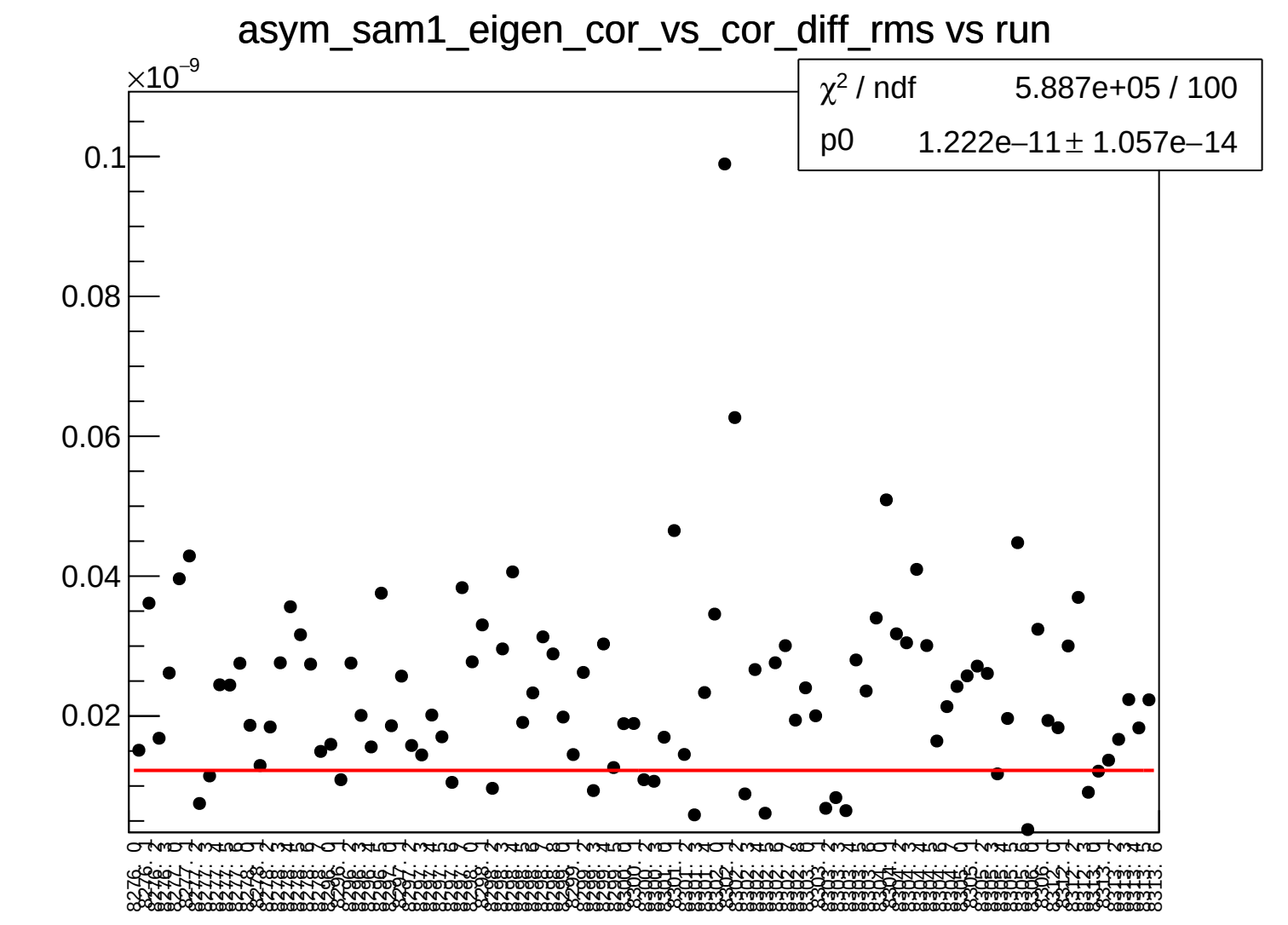

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 115 / 100
p0 0.01547 ± 0.01477
pull
Entries 101
Mean 262.6
Std Dev 0
pull1D
Entries 101
Mean 0.05212
Std Dev 1.066

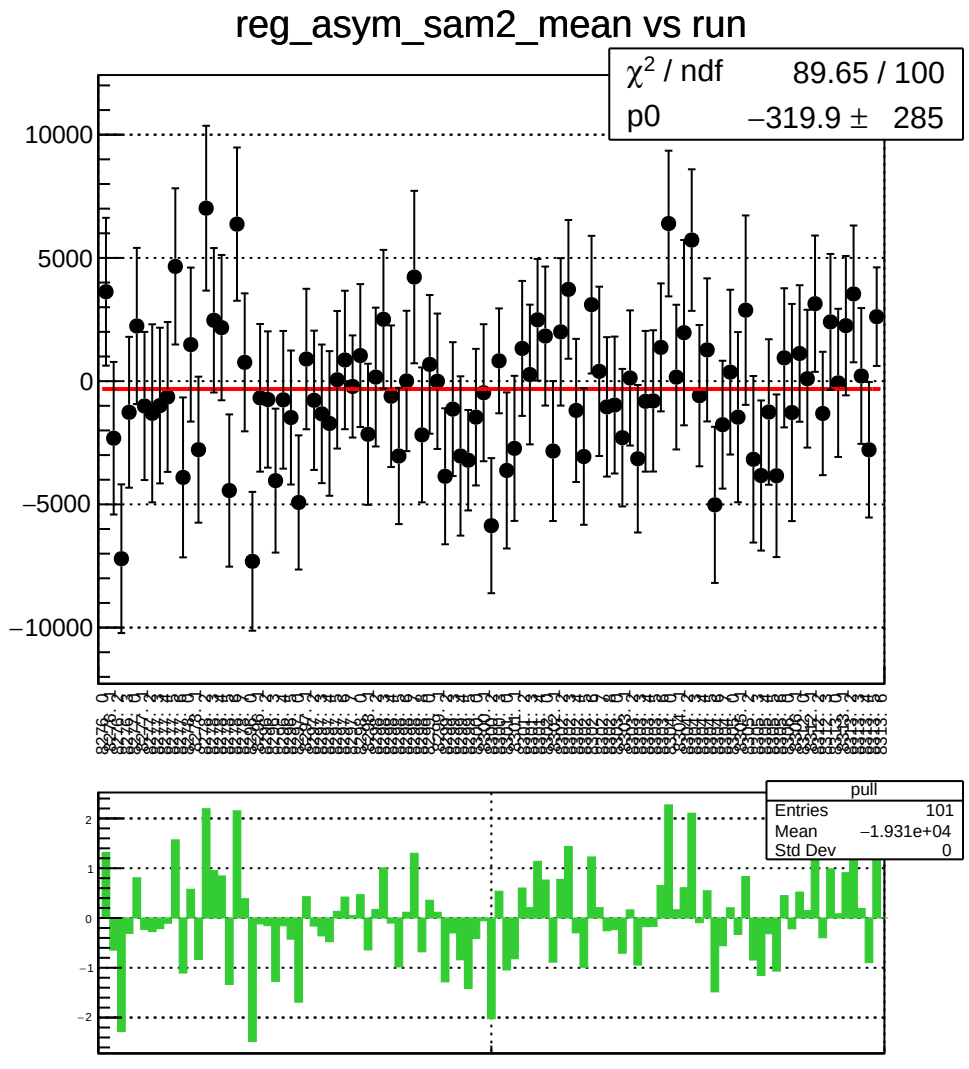

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.075e+05 / 100
p0 14.09 ± 0.01044
24
22
20
18
16
14
12
10
8

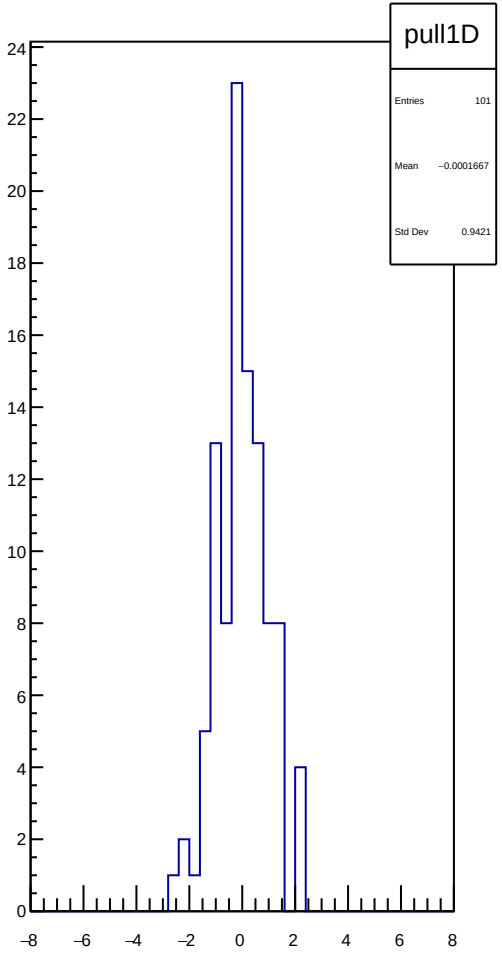

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 115 / 100
p0 0.01547 ± 0.01477
pull
Entries 101
Mean 262.6
Std Dev 0
pull1D
Entries 101
Mean 0.05212
Std Dev 1.066

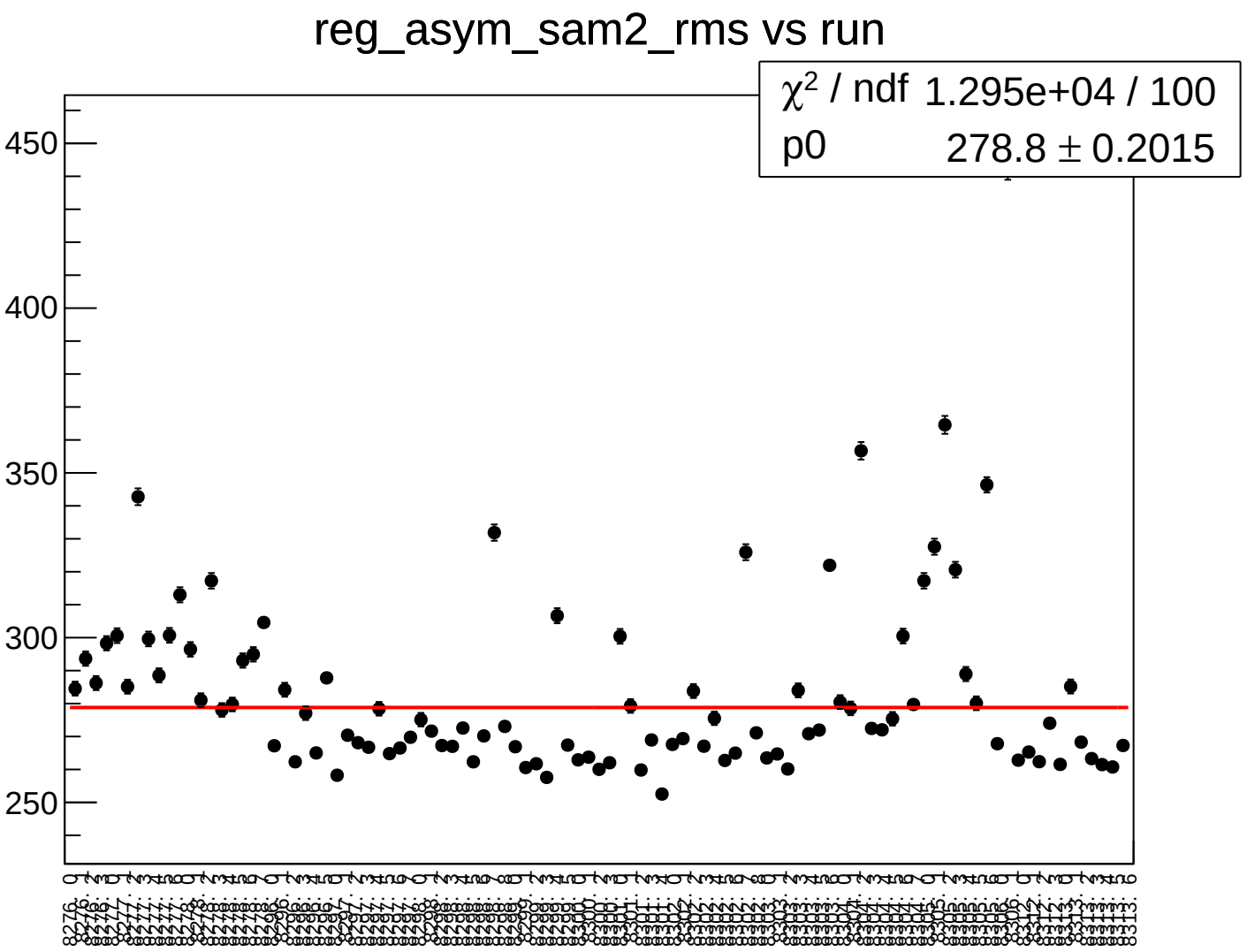

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.075e+05 / 100
p0 14.09 ± 0.01044
24
22
20
18
16
14
12
10
8

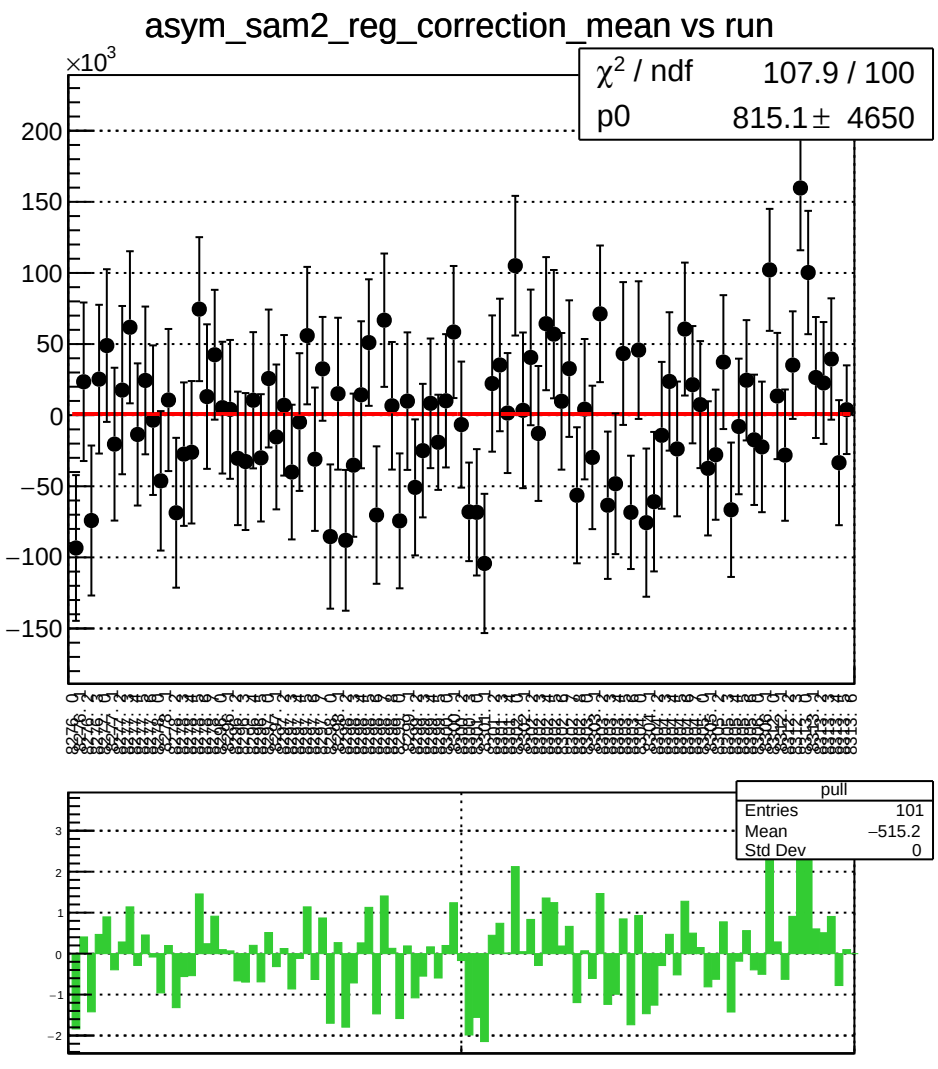

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.76 / 100
p0 −1.202e−14 ± 1.494e−14
1.5
1
0.5
0
−0.5
−1
pull
Entries 101
Mean −189.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.01599
Std Dev 0.9887
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

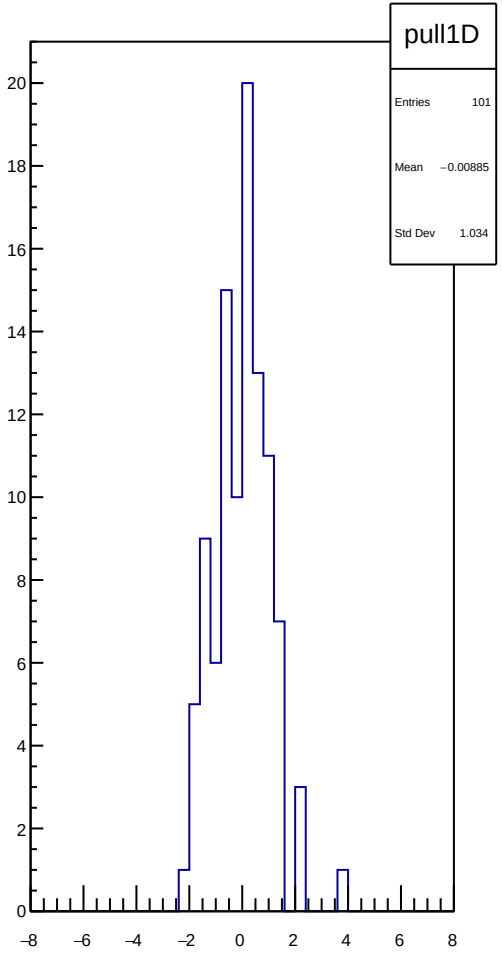

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.887e+05 / 100
p0 1.222e−11 ± 1.057e−14
0.1
0.08
0.06
0.04
0.02

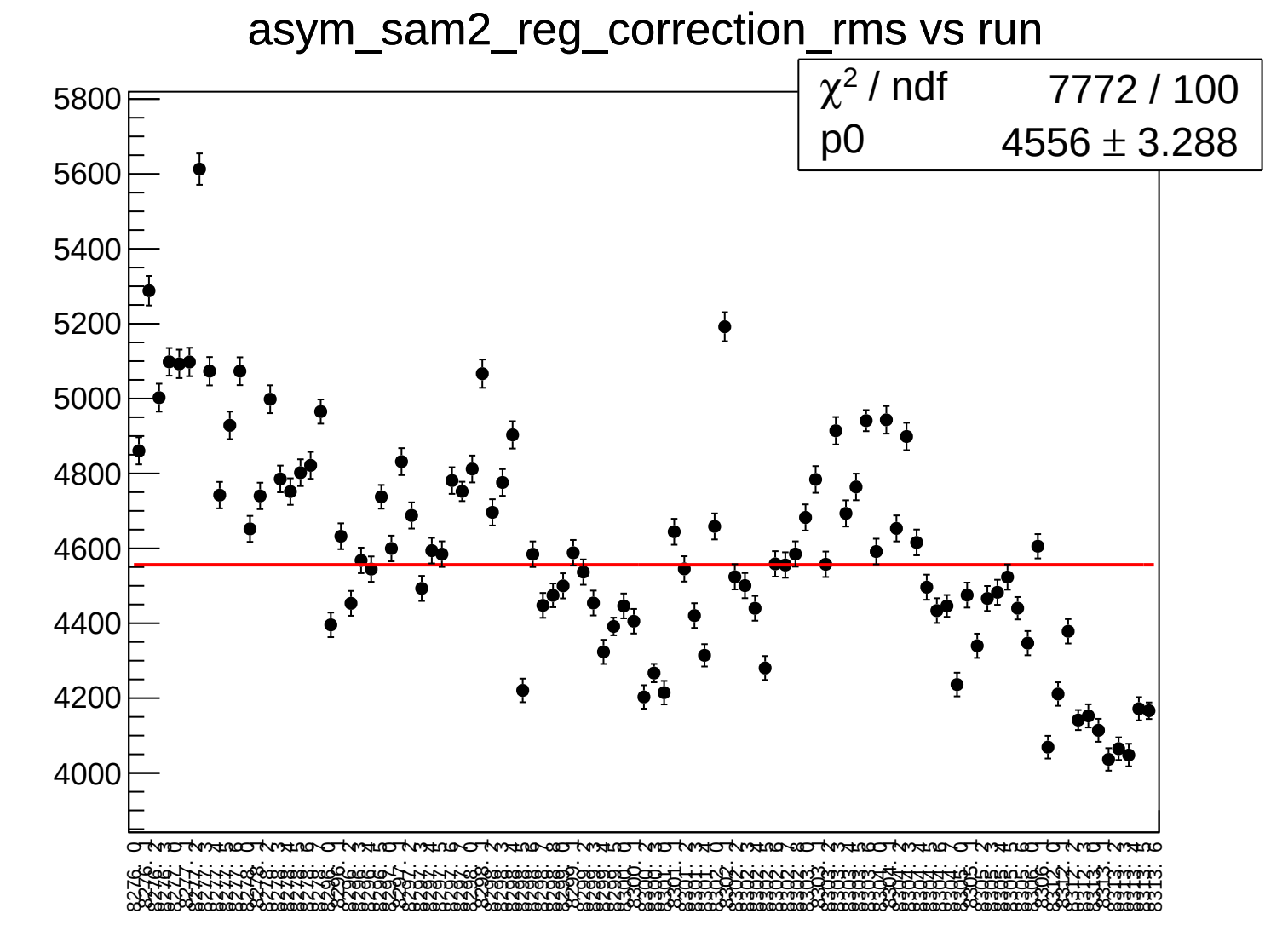

reg_asym_sam2_mean vs run
χ² / ndf 89.65 / 100
p0 −319.9 ± 285
10000
5000
0
−5000
−10000
pull
Entries 101
Mean −1.931e+04
Std Dev 0
2
1
0
−1
−2

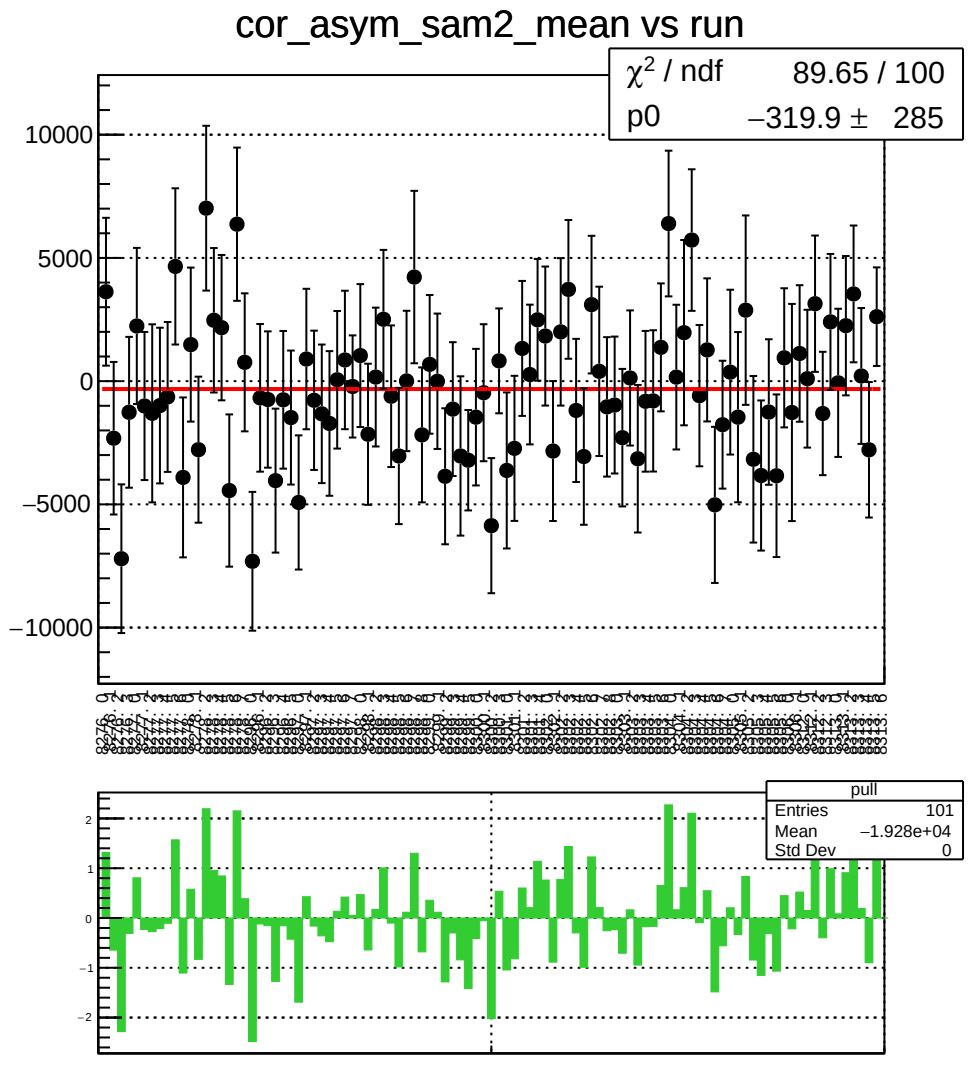

pull1D
Entries 101
Mean −0.0001667
Std Dev 0.9421
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

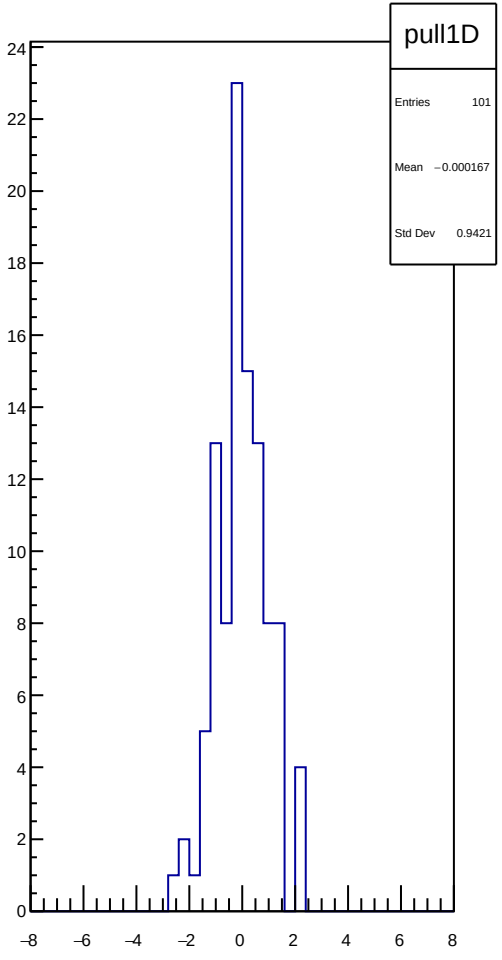

reg_asym_sam2_rms vs run
χ² / ndf 1.295e+04 / 100
p0 278.8 ± 0.2015
450
400
350
300
250

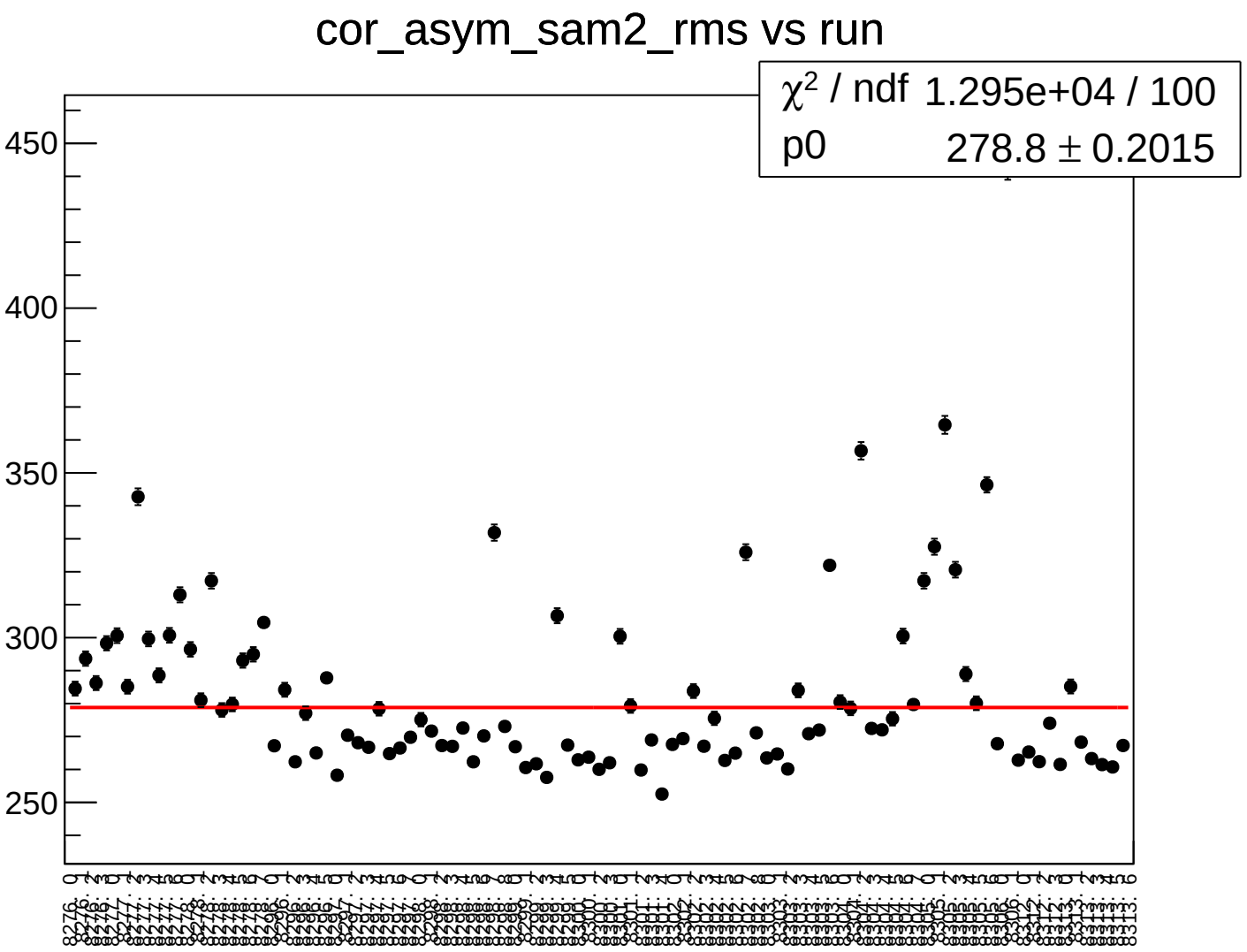

asym_sam2_reg_correction_mean vs run
χ² / ndf 107.9 / 100
p0 815.1 ± 4650
×10³
pull
Entries 101
Mean −515.2
Std Dev 0

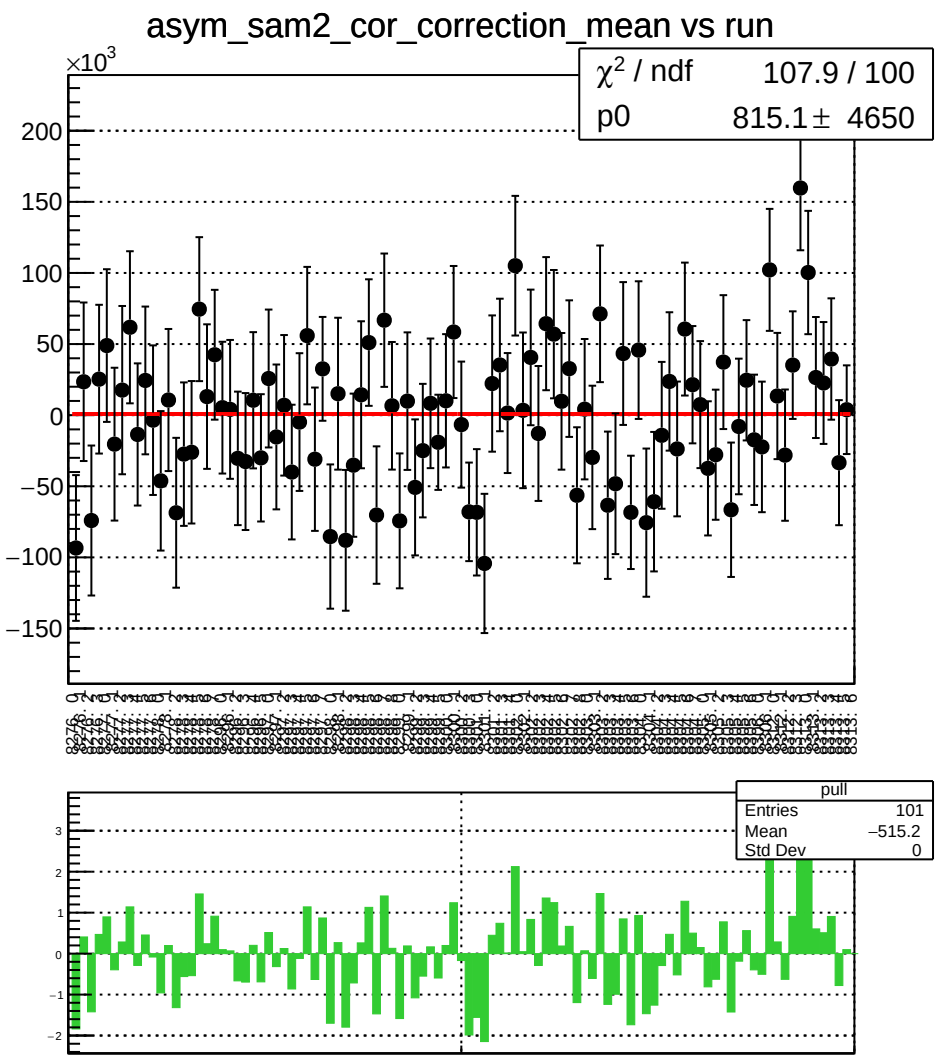

pull1D
Entries 101
Mean −0.00885
Std Dev 1.034

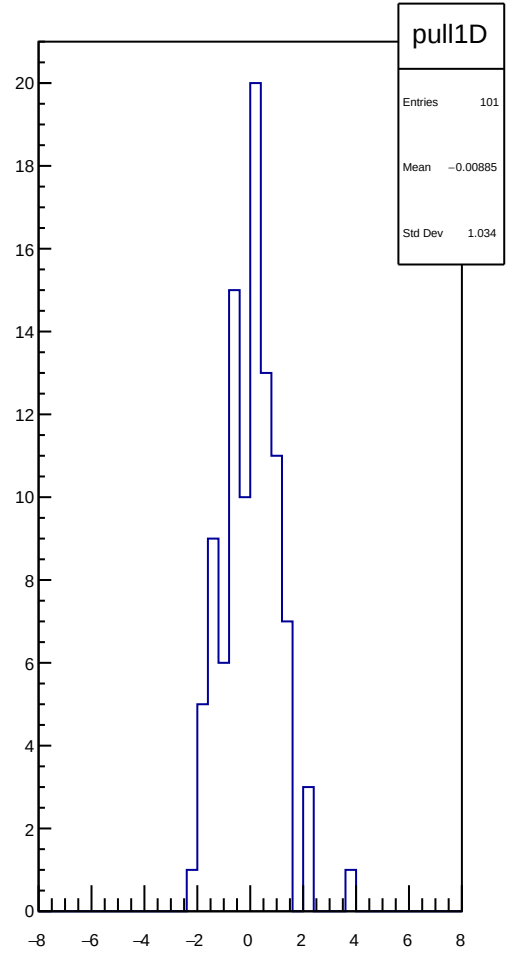

asym_sam2_reg_correction_rms vs run
χ² / ndf 7772 / 100
p0 4556 ± 3.288
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000

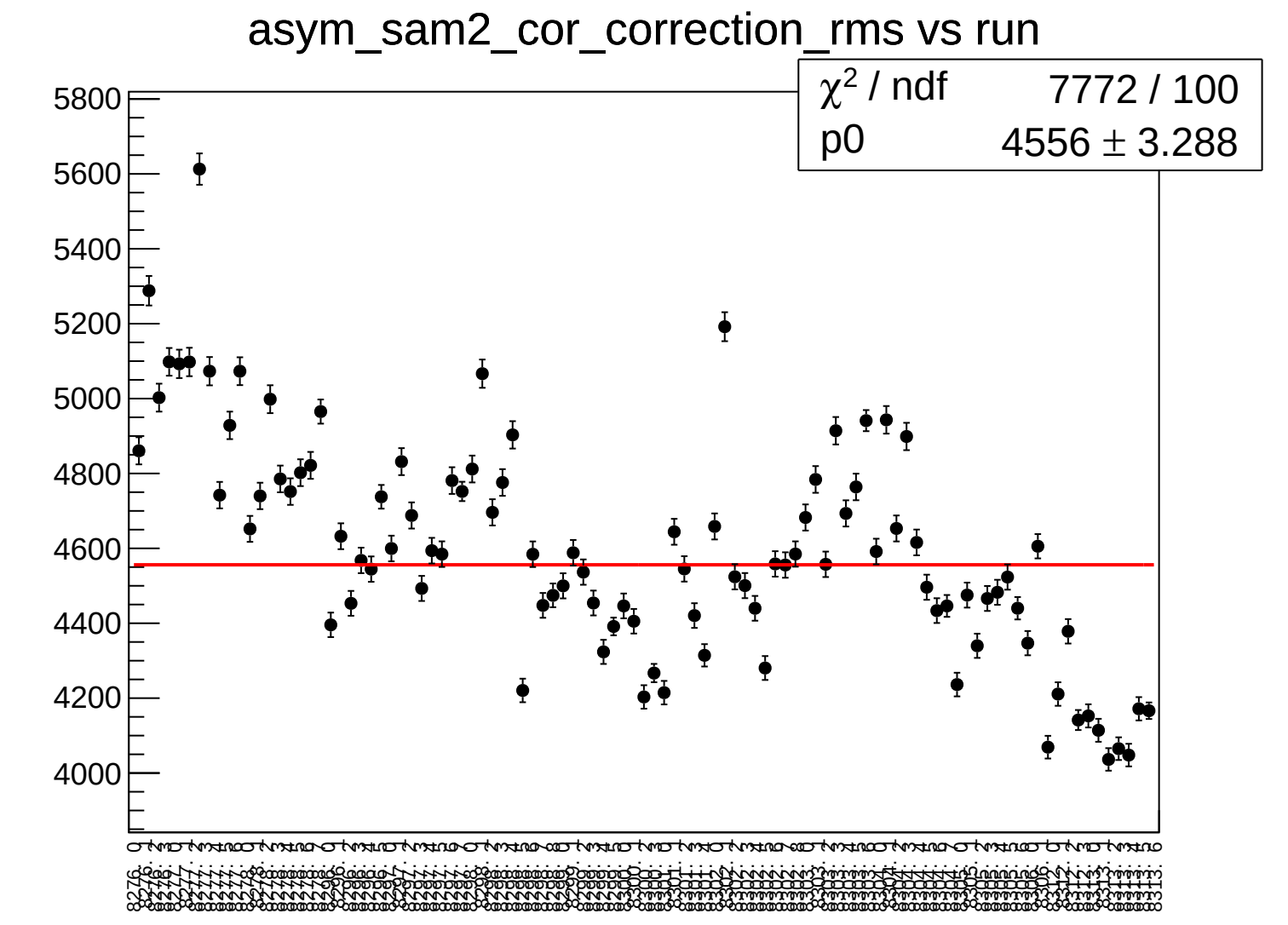

cor_asym_sam2_mean vs run
χ² / ndf 89.65 / 100
p0 −319.9 ± 285
10000
5000
0
−5000
−10000
pull
Entries 101
Mean −1.928e+04
Std Dev 0
2
1
0
−1
−2

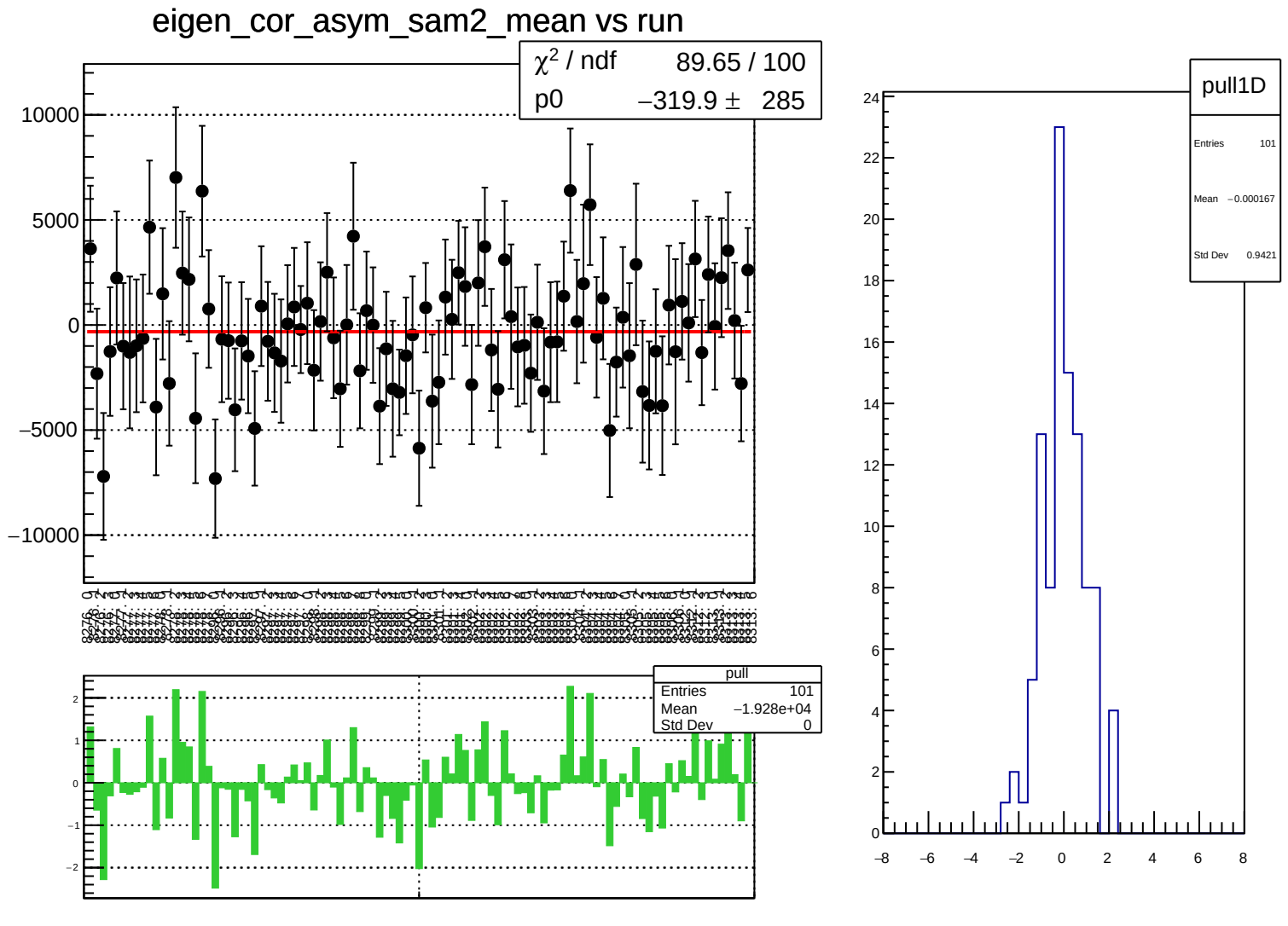

pull1D
Entries 101
Mean −0.000167
Std Dev 0.9421
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam2_rms vs run
χ² / ndf 1.295e+04 / 100
p0 278.8 ± 0.2015
450
400
350
300
250


asym_sam2_cor_correction_mean vs run
×10^3
χ^2 / ndf 107.9 / 100
p0 815.1 ± 4650
200
150
100
50
0
−50
−100
−150
pull
Entries 101
Mean −515.2
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 101
Mean −0.00885
Std Dev 1.034
20
18
16
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 7772 / 100
p0 4556 ± 3.288
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000


eigen_cor_asym_sam2_mean vs run
χ² / ndf 89.65 / 100
p0 −319.9 ± 285
10000
5000
0
−5000
−10000
pull
Entries 101
Mean −1.928e+04
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.000167
Std Dev 0.9421
24
22
20
18
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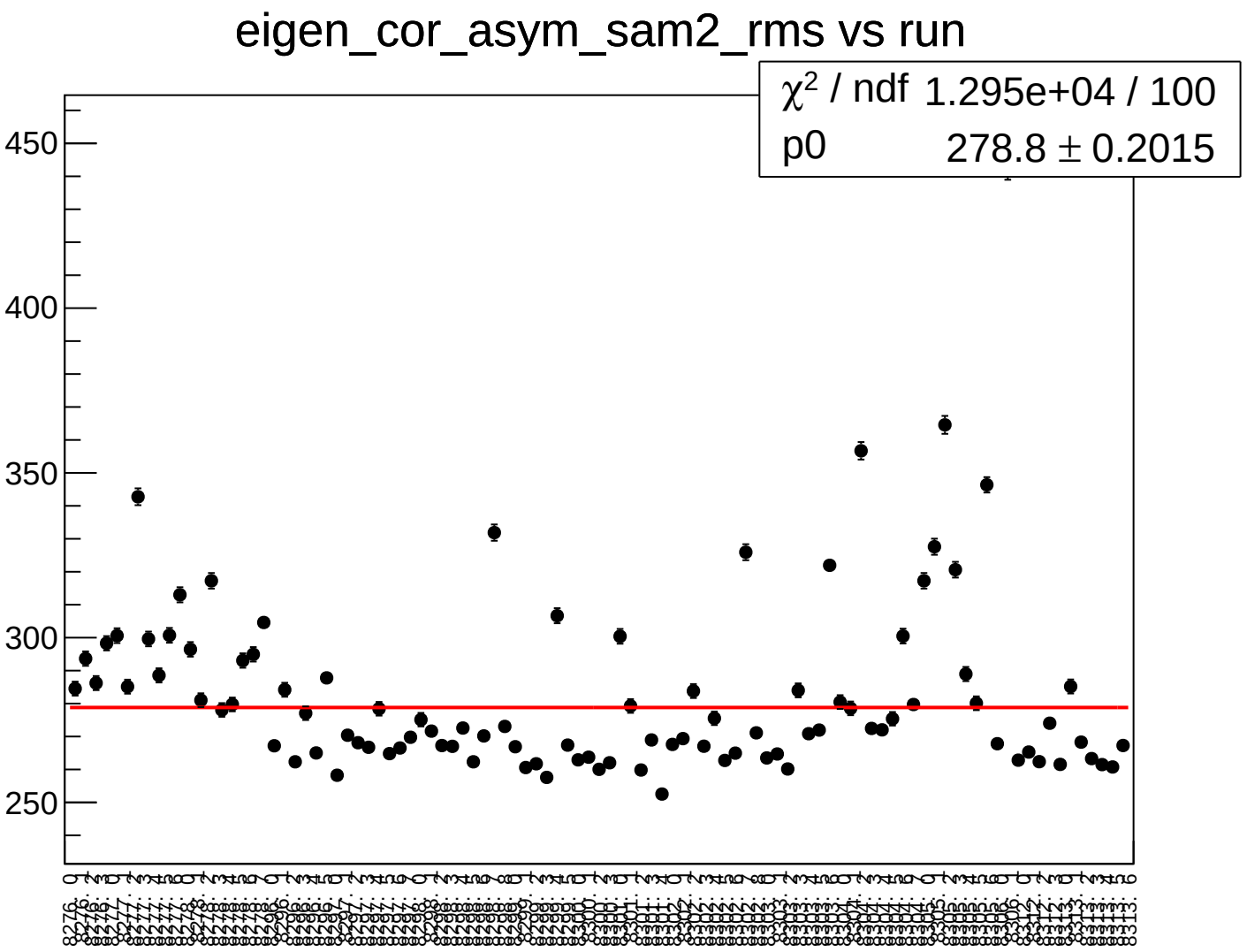
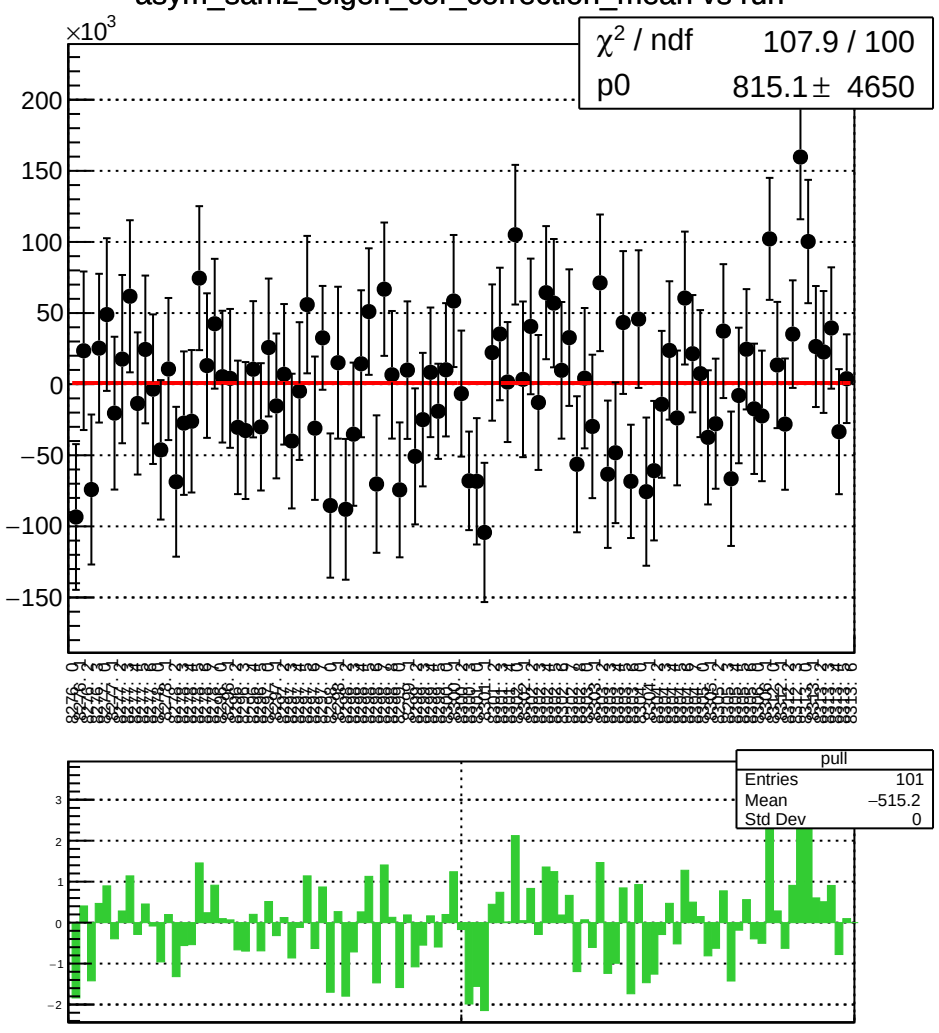
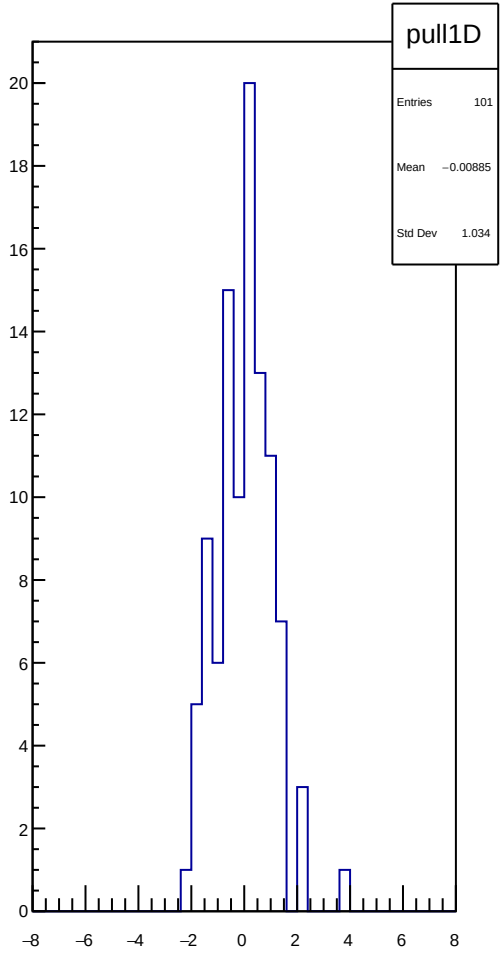
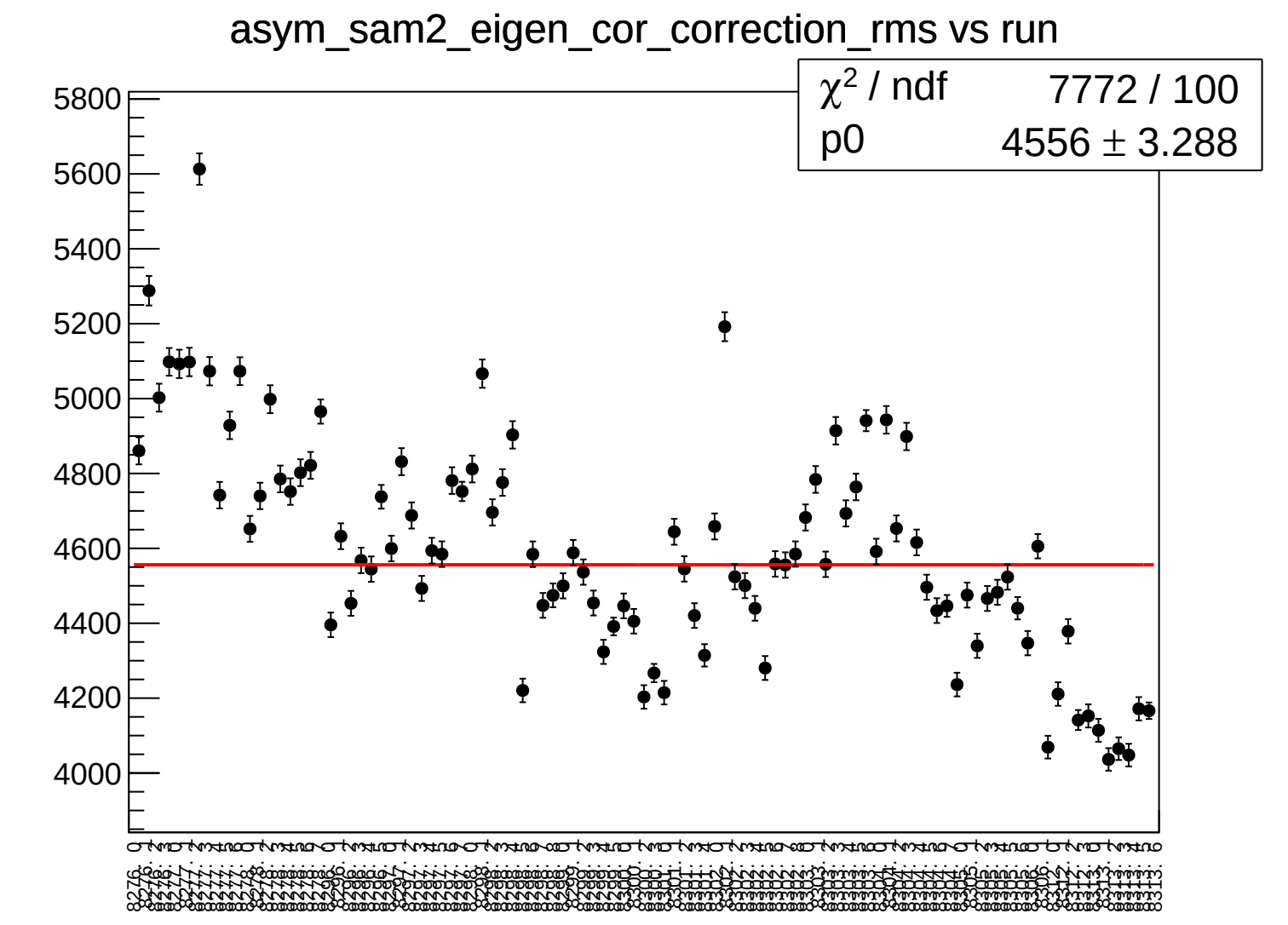
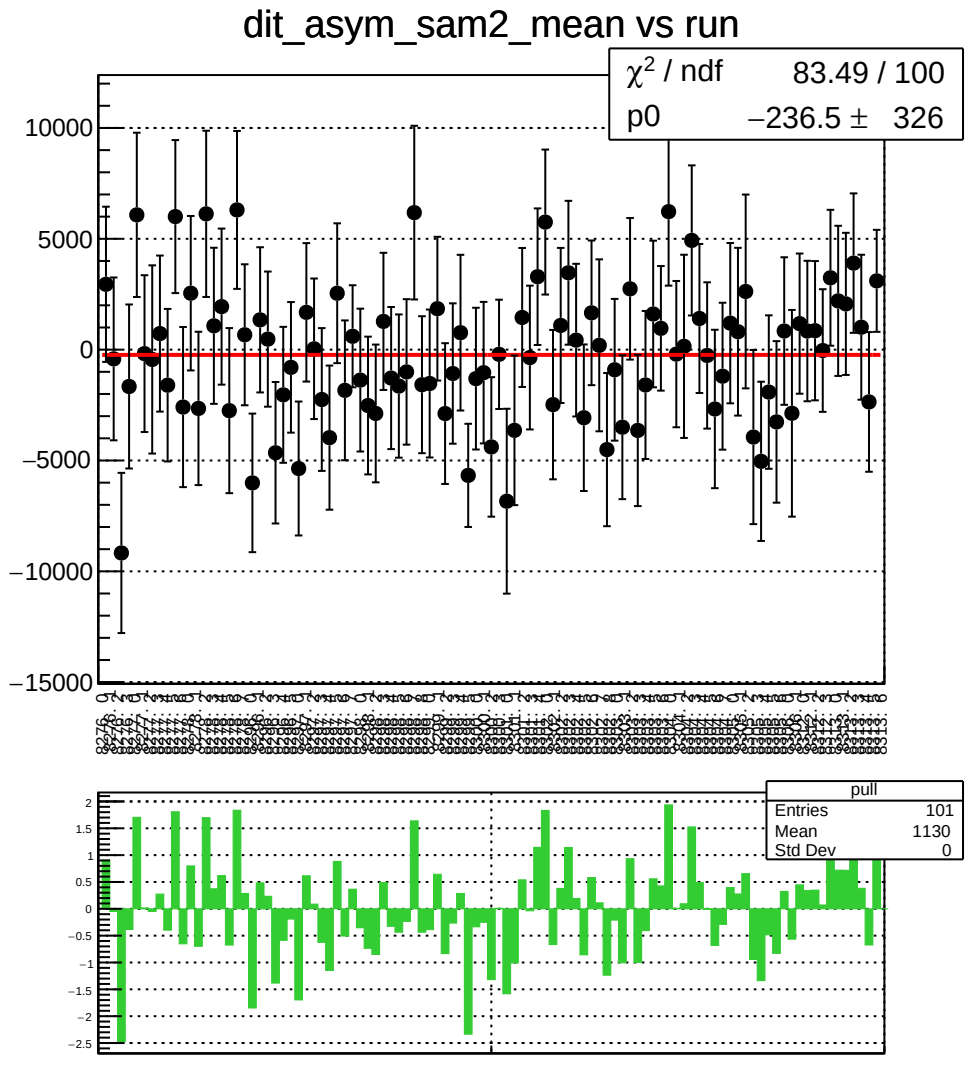
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

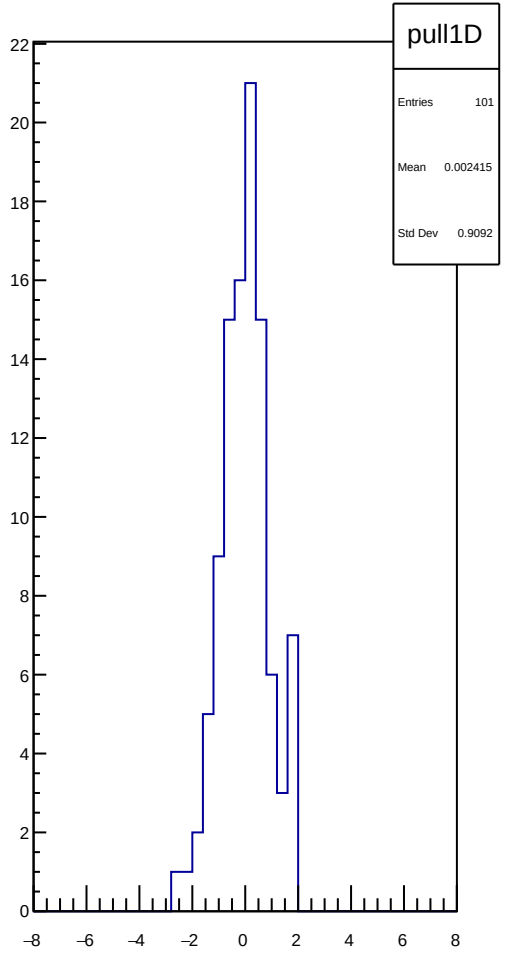

eigen_cor_asym_sam2_rms vs run
χ² / ndf 1.295e+04 / 100
p0 278.8 ± 0.2015
450
400
350
300
250

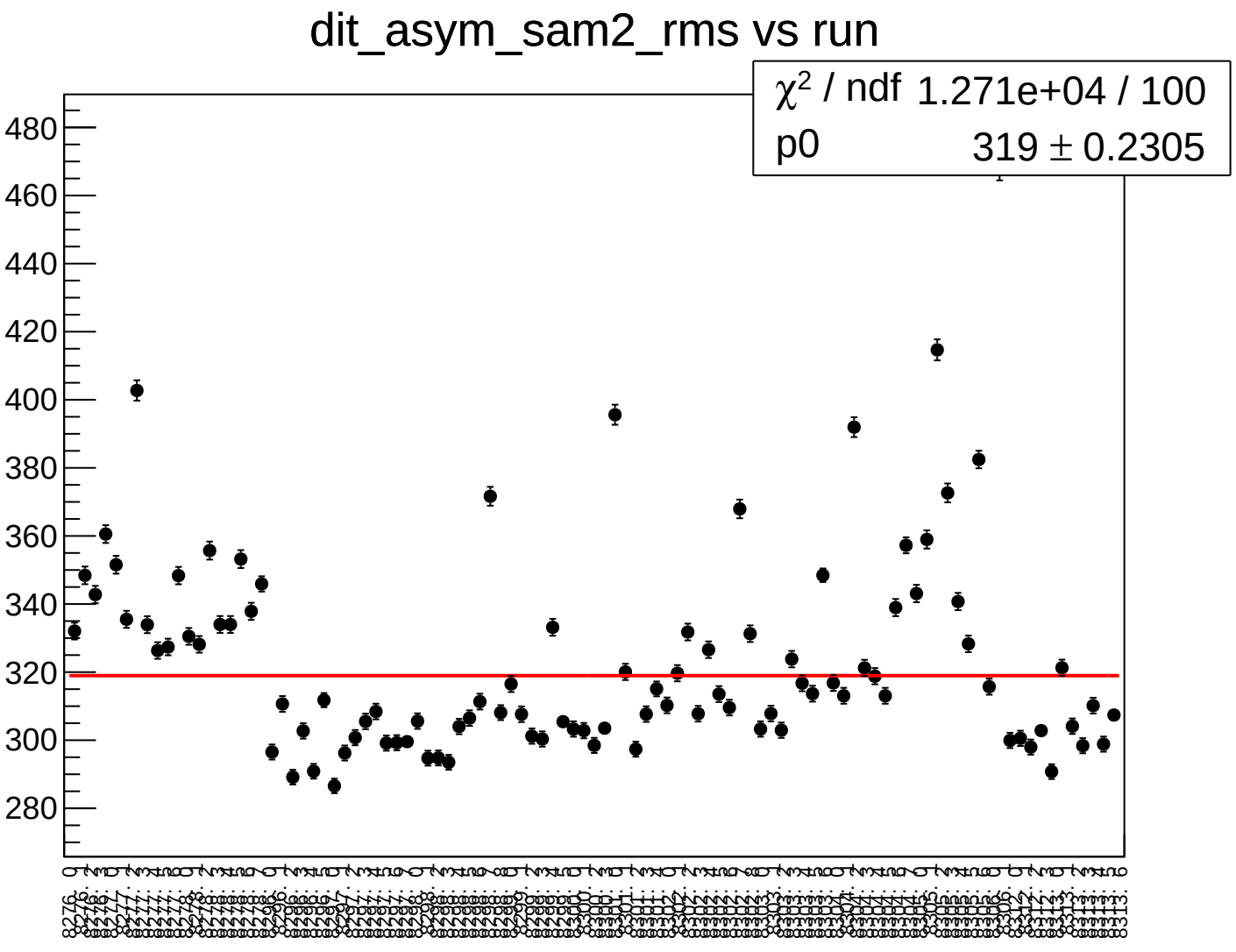

asym_sam2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 107.9 / 100
p0 815.1 ± 4650
200
150
100
50
0
−50
−100
−150
pull
Entries 101
Mean −515.2
Std Dev 0
3
2
1
0
−1
−2

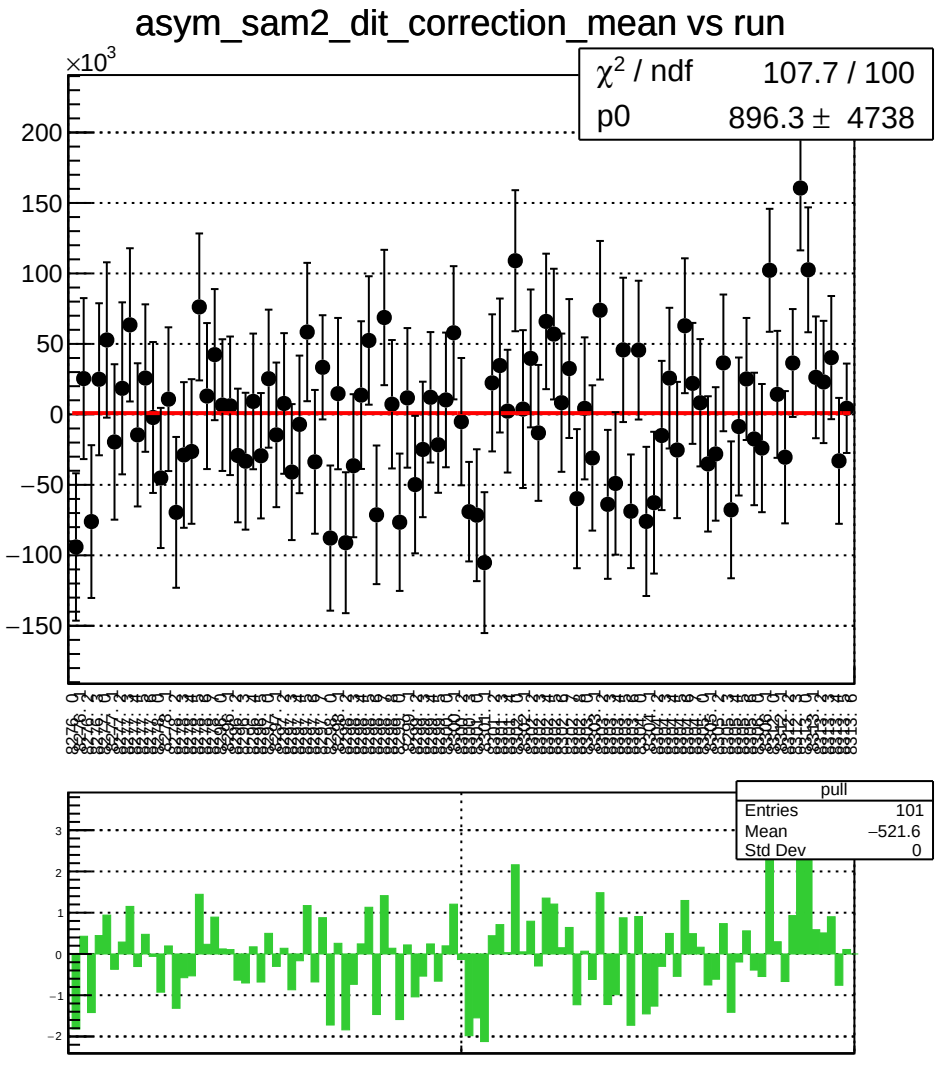

pull1D
Entries 101
Mean −0.00885
Std Dev 1.034
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

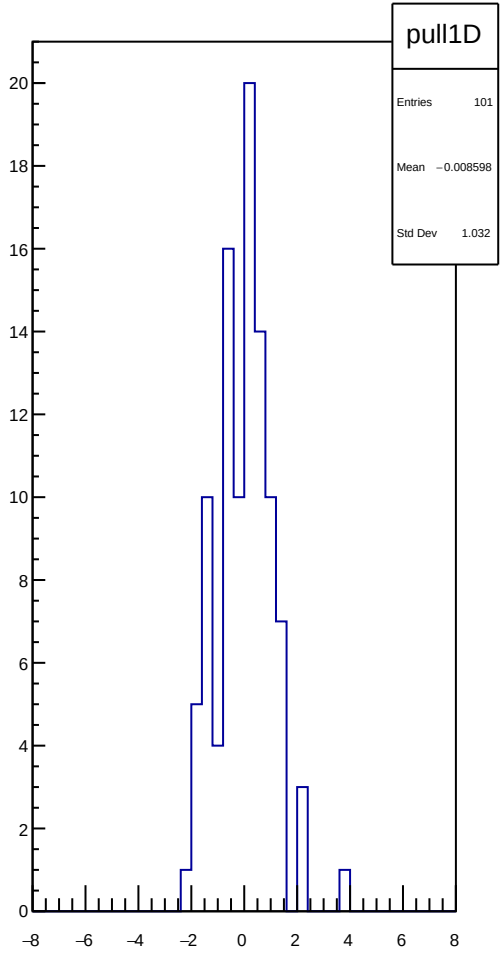

asym_sam2_eigen_cor_correction_rms vs run
χ^2 / ndf 7772 / 100
p0 4556 ± 3.288
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000

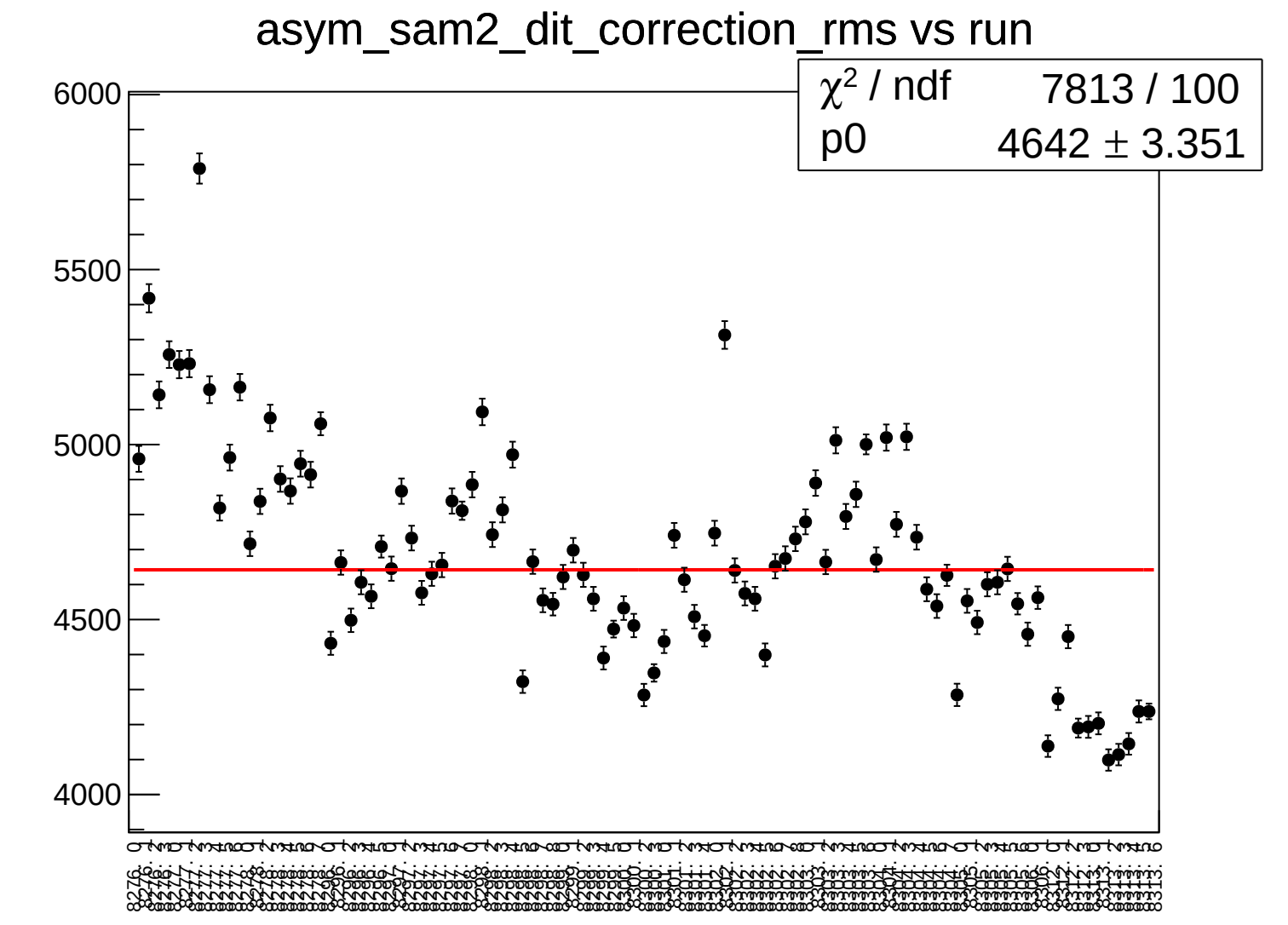

dit_asym_sam2_mean vs run
χ² / ndf 83.49 / 100
p0 −236.5 ± 326
10000
5000
0
−5000
−10000
−15000
pull
Entries 101
Mean 1130
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

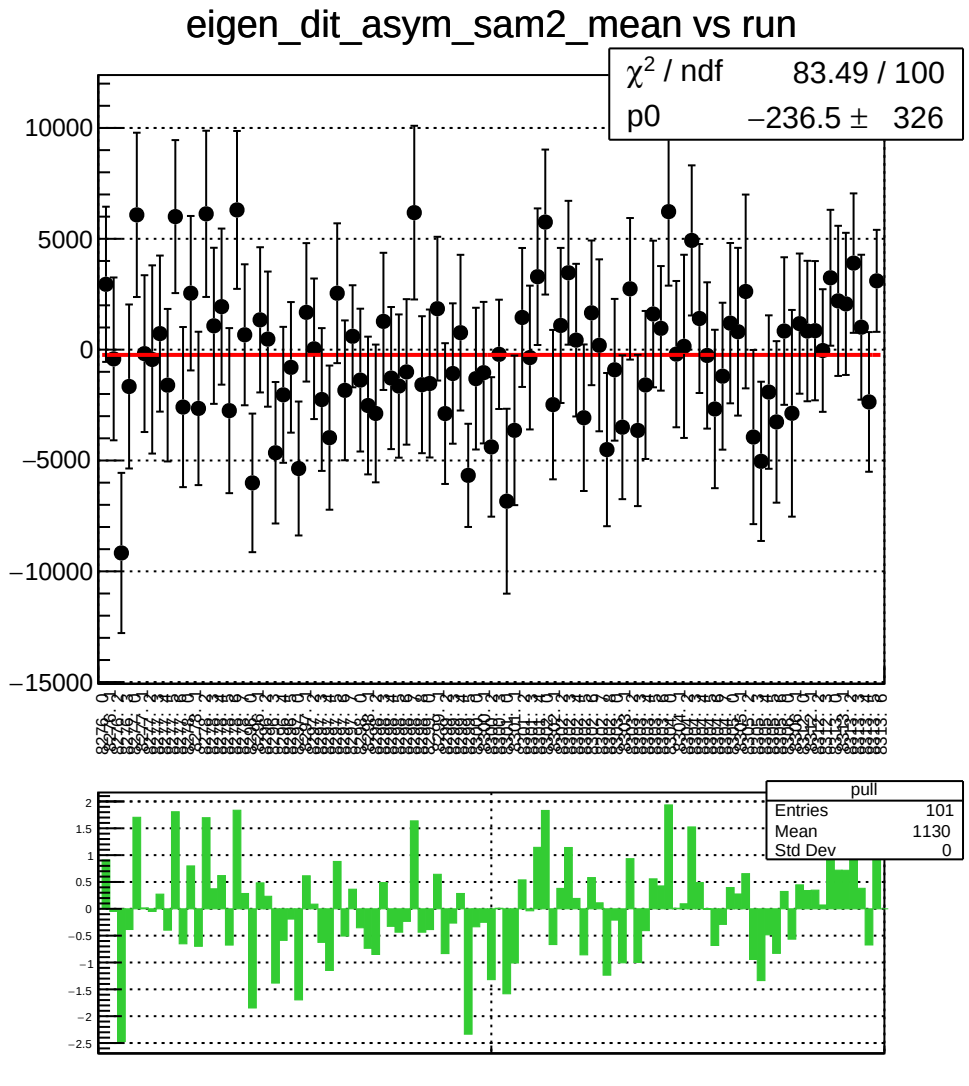

pull1D
Entries 101
Mean 0.002415
Std Dev 0.9092
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

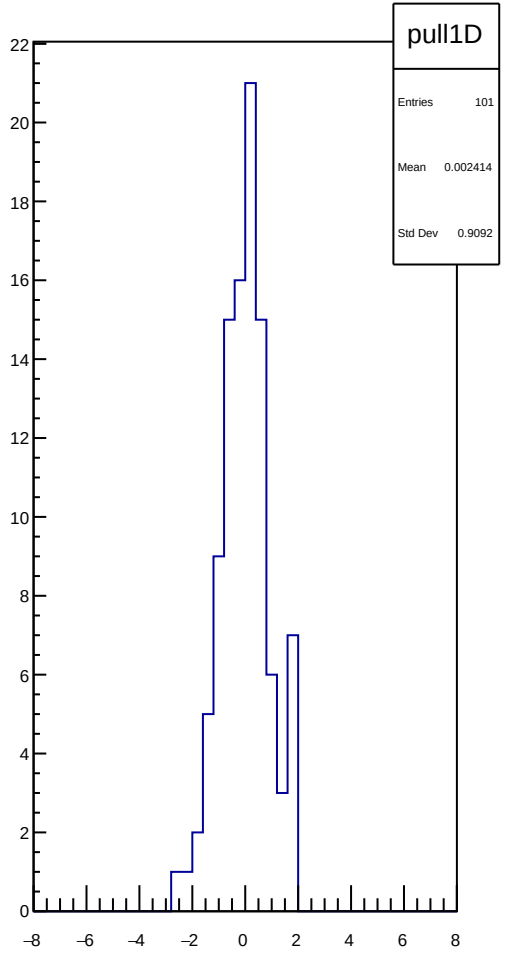

dit_asym_sam2_rms vs run
χ² / ndf 1.271e+04 / 100
p0 319 ± 0.2305
480
460
440
420
400
380
360
340
320
300
280

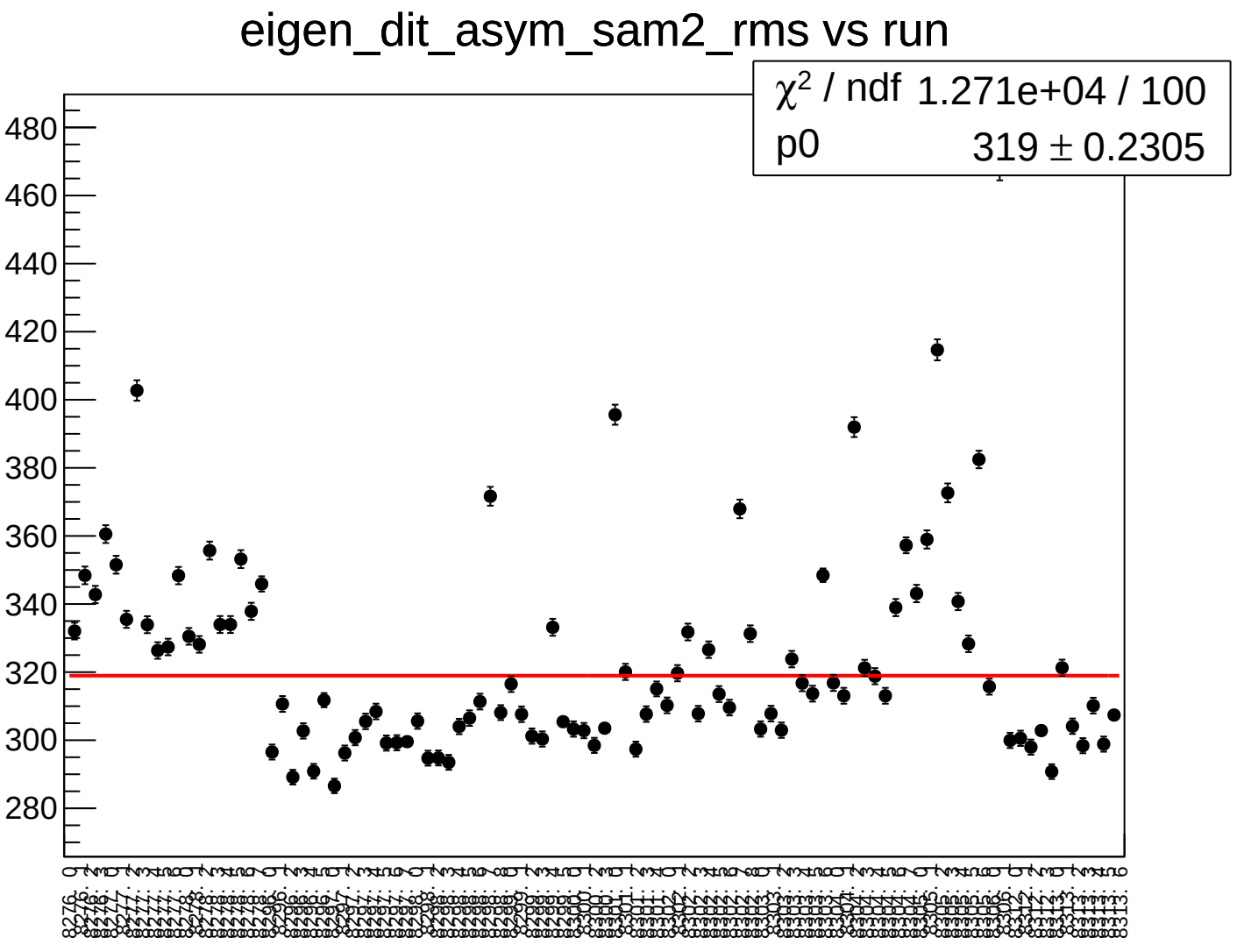

asym_sam2_dit_correction_mean vs run
×10^3
χ^2 / ndf 107.7 / 100
p0 896.3 ± 4738
pull
Entries 101
Mean −521.6
Std Dev 0

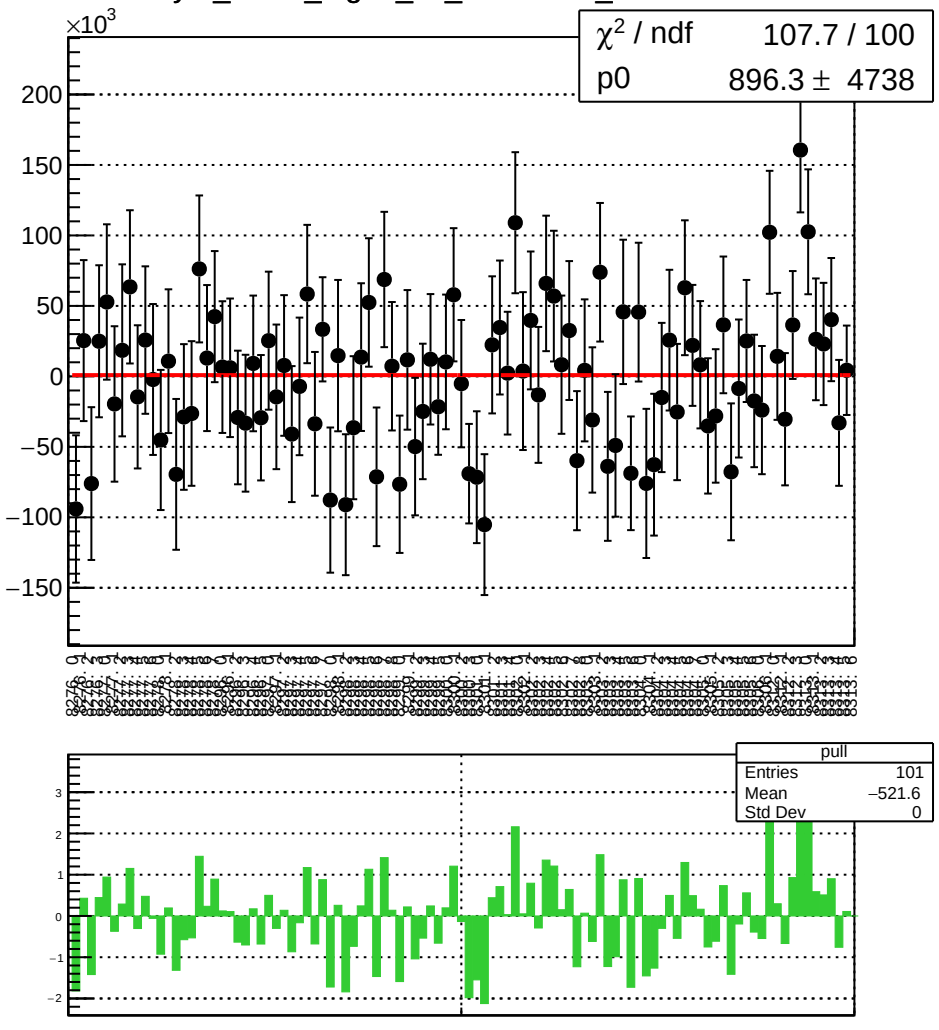

pull1D
Entries 101
Mean −0.008598
Std Dev 1.032

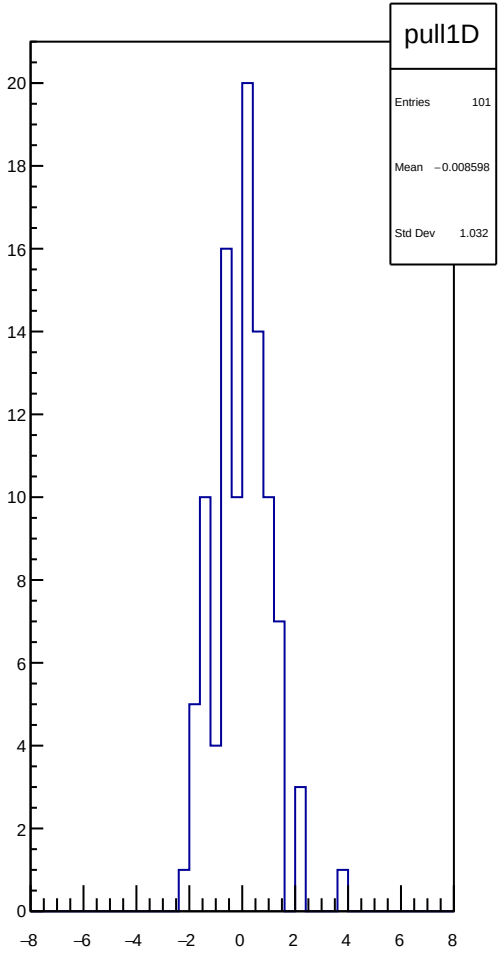

asym_sam2_dit_correction_rms vs run
χ² / ndf 7813 / 100
p0 4642 ± 3.351
6000
5500
5000
4500
4000

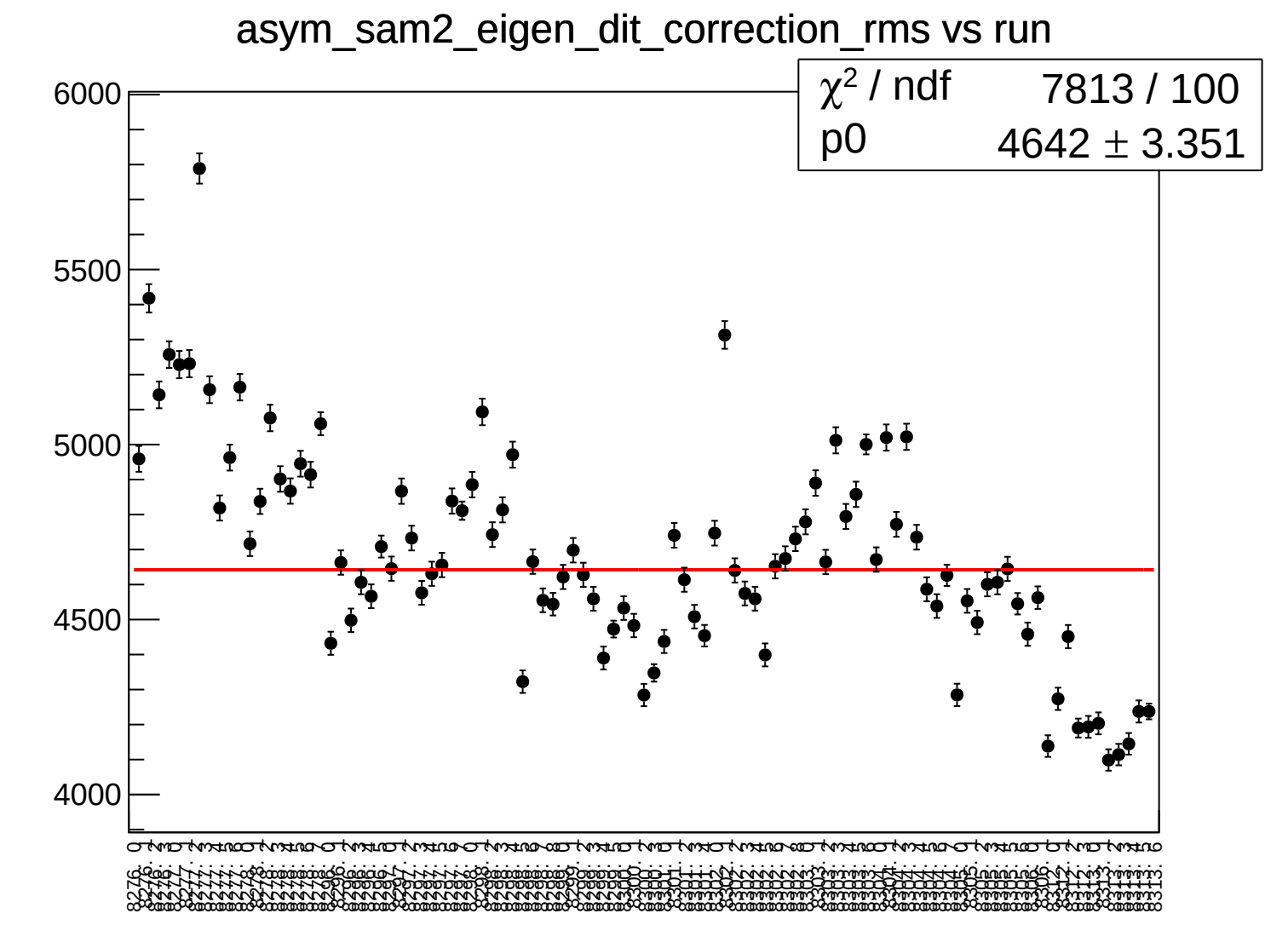

eigen_dit_asym_sam2_mean vs run
χ² / ndf 83.49 / 100
p0 −236.5 ± 326
10000
5000
0
−5000
−10000
−15000
pull
Entries 101
Mean 1130
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

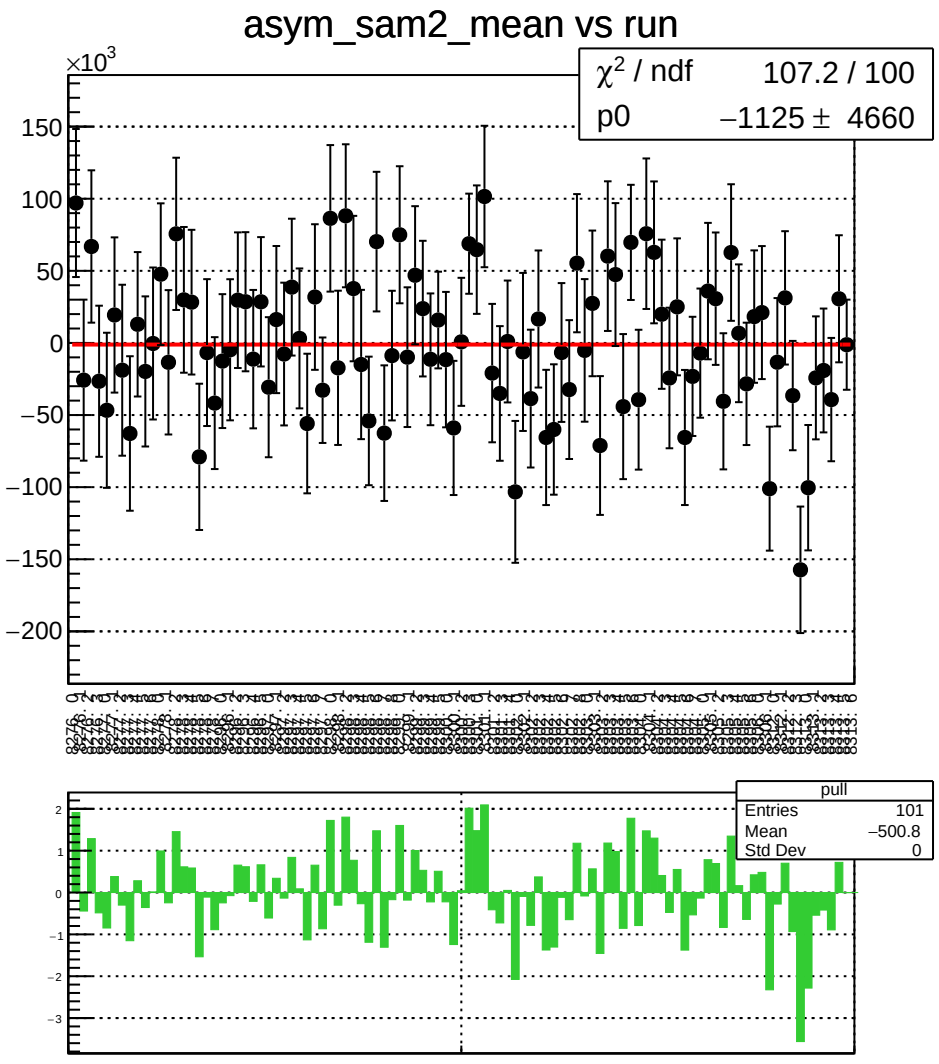

pull1D
Entries 101
Mean 0.002414
Std Dev 0.9092
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

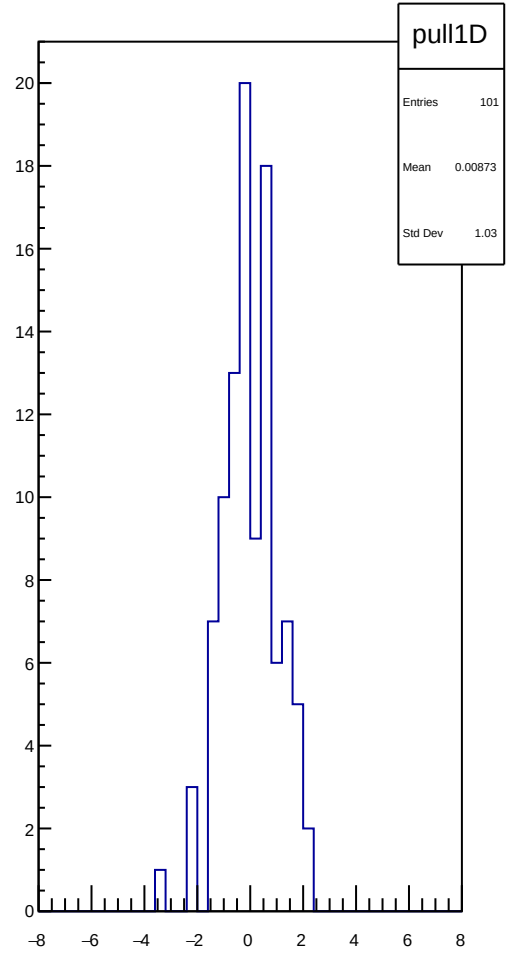

eigen_dit_asym_sam2_rms vs run
χ² / ndf 1.271e+04 / 100
p0 319 ± 0.2305
480
460
440
420
400
380
360
340
320
300
280

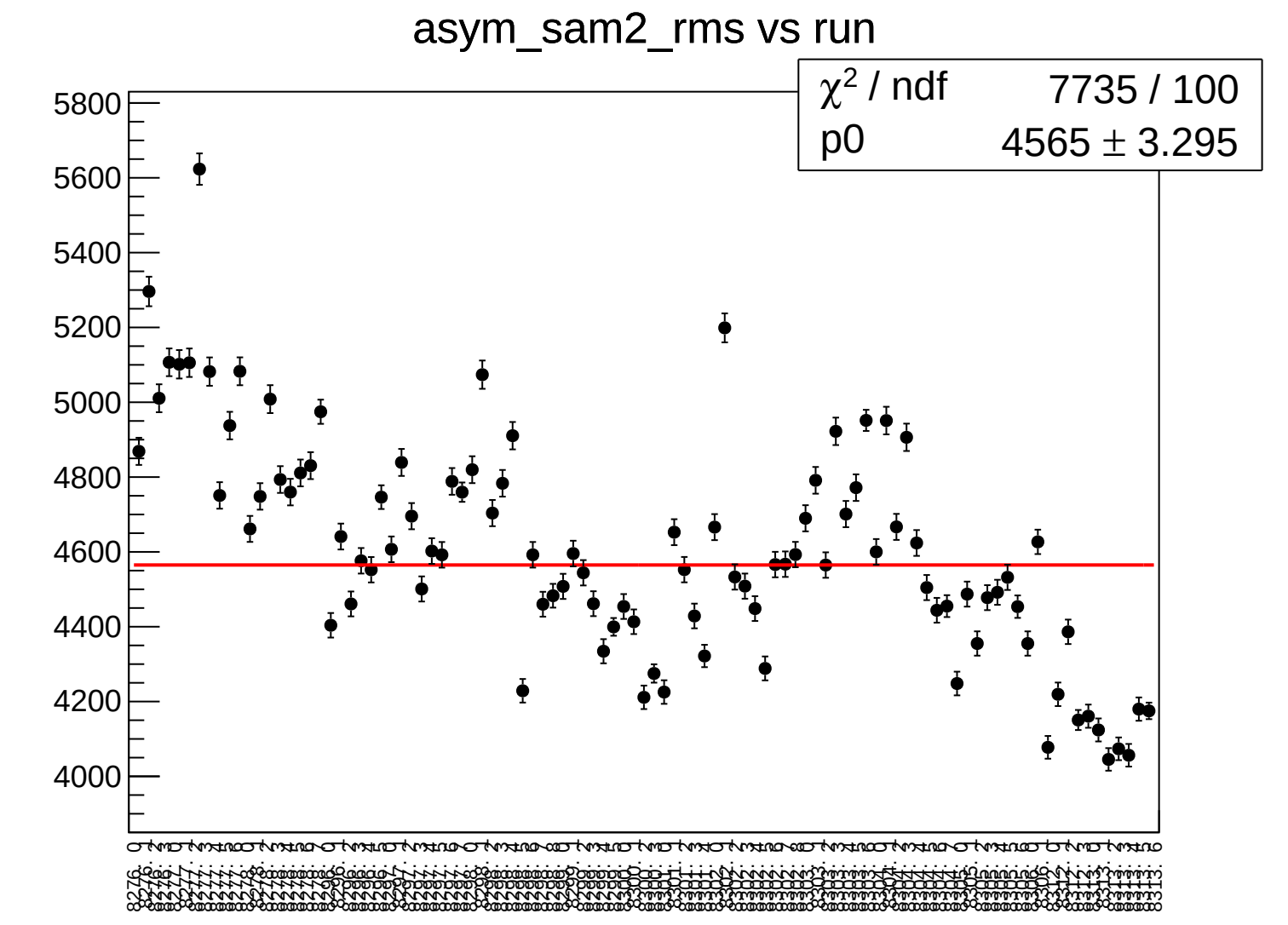

asym_sam2_eigen_dit_correction_mean vs run
χ² / ndf 107.7 / 100
p0 896.3 ± 4738
×10³
pull
Entries 101
Mean −521.6
Std Dev 0

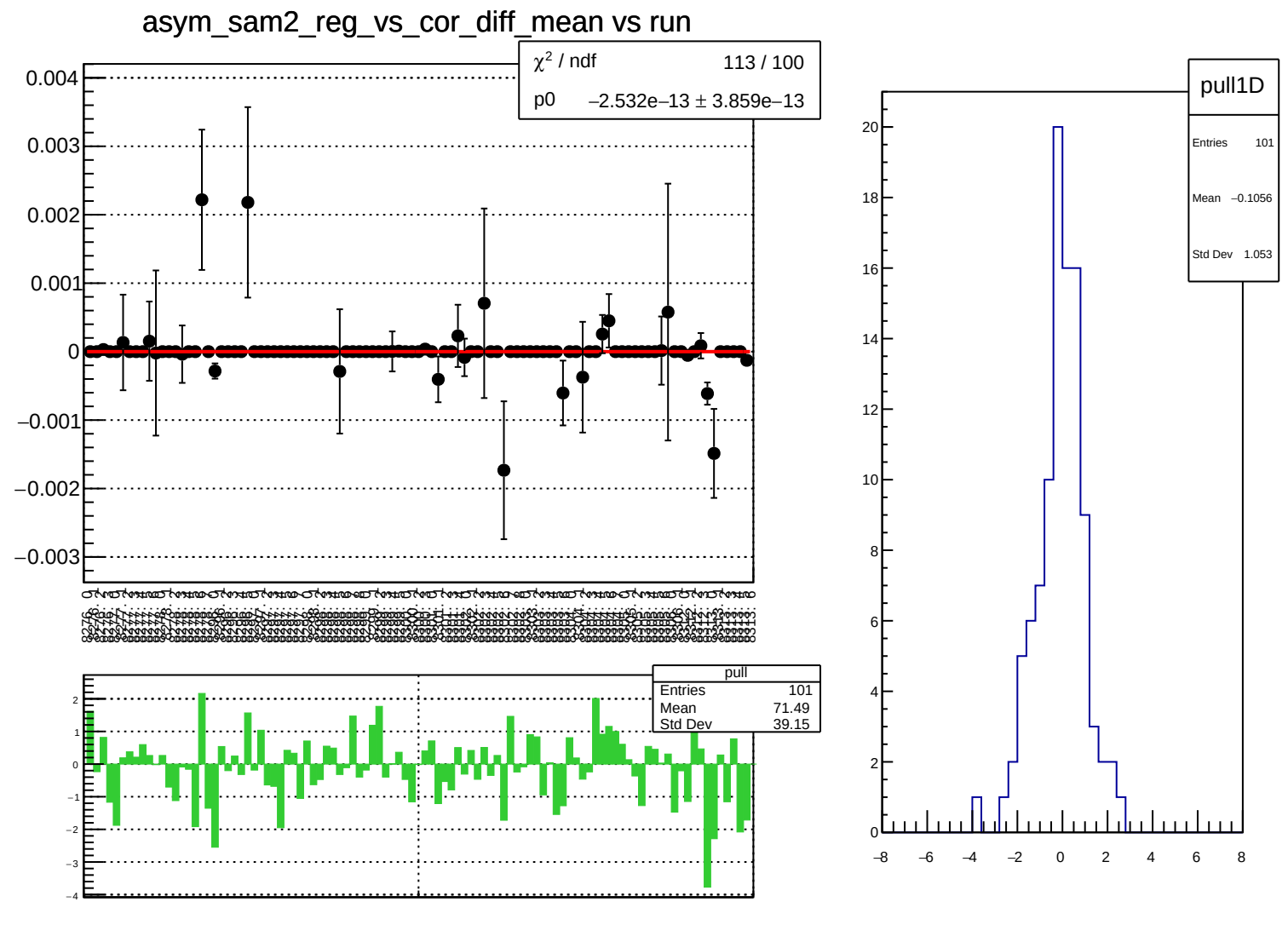

pull1D
Entries 101
Mean −0.008598
Std Dev 1.032

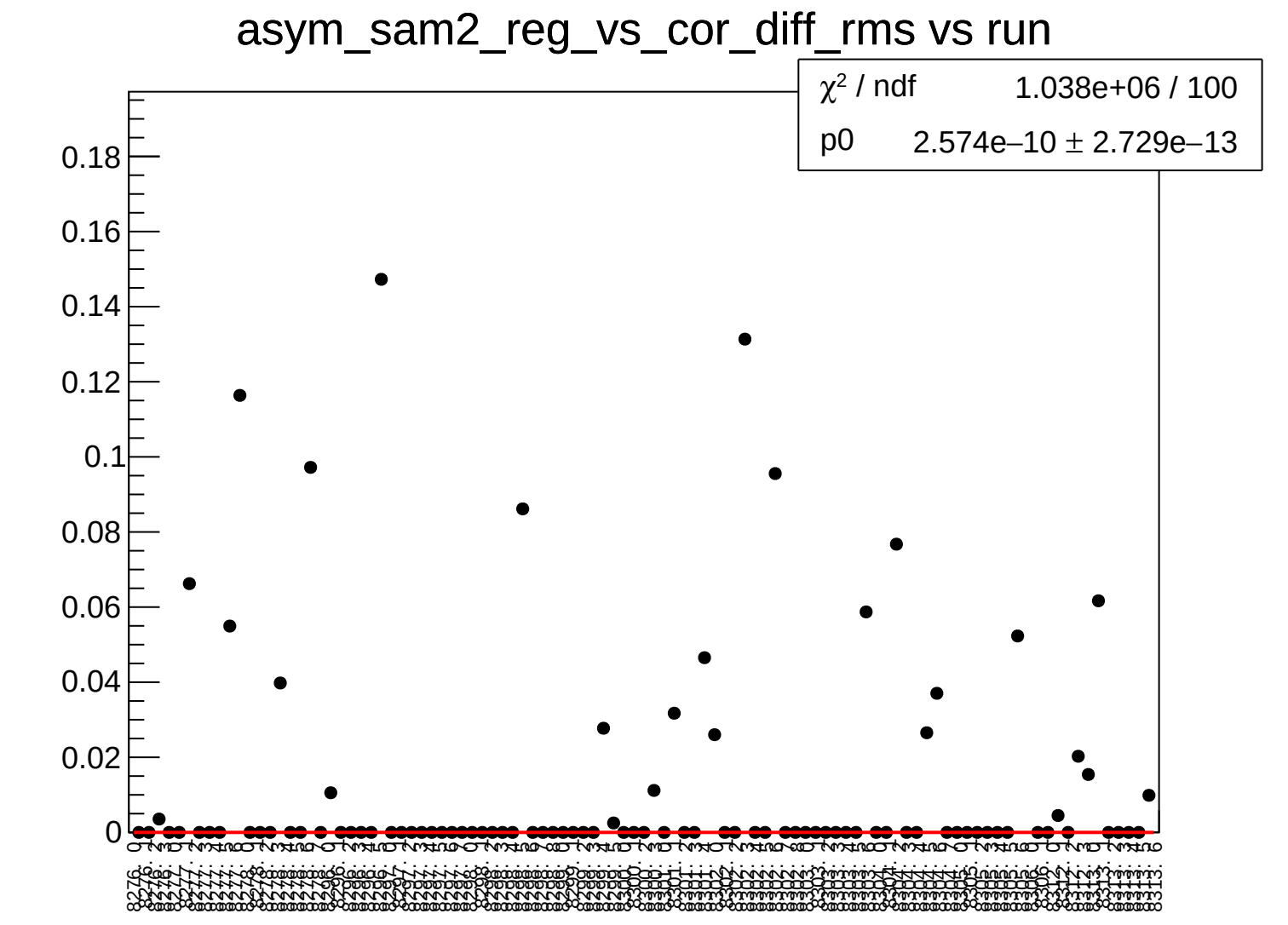

asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 7813 / 100
p0 4642 ± 3.351
6000
5500
5000
4500
4000

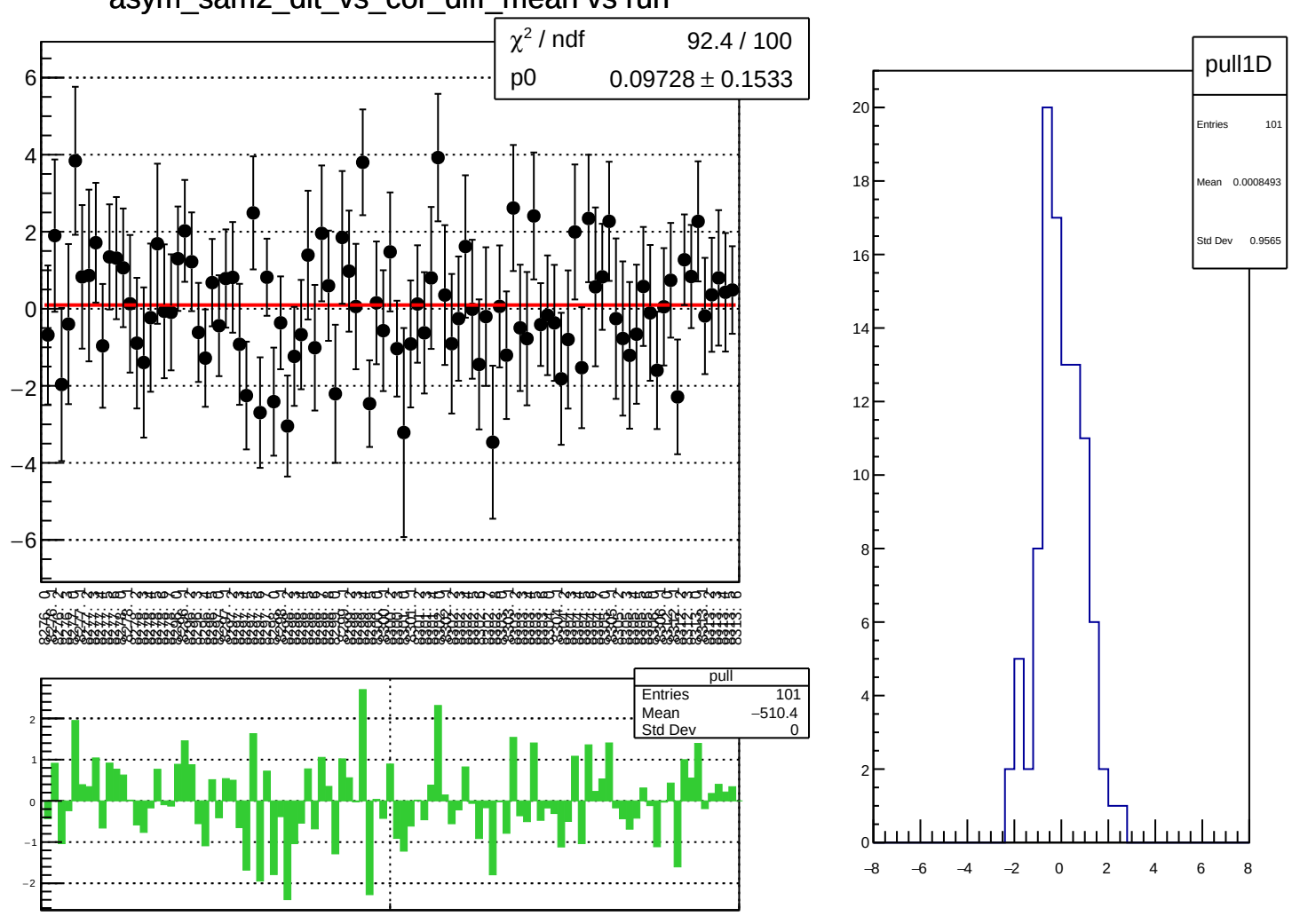

asym_sam2_mean vs run
×10^3
χ^2 / ndf 107.2 / 100
p0 −1125 ± 4660
150
100
50
0
−50
−100
−150
−200
pull
Entries 101
Mean −500.8
Std Dev 0
2
1
0
−1
−2
−3

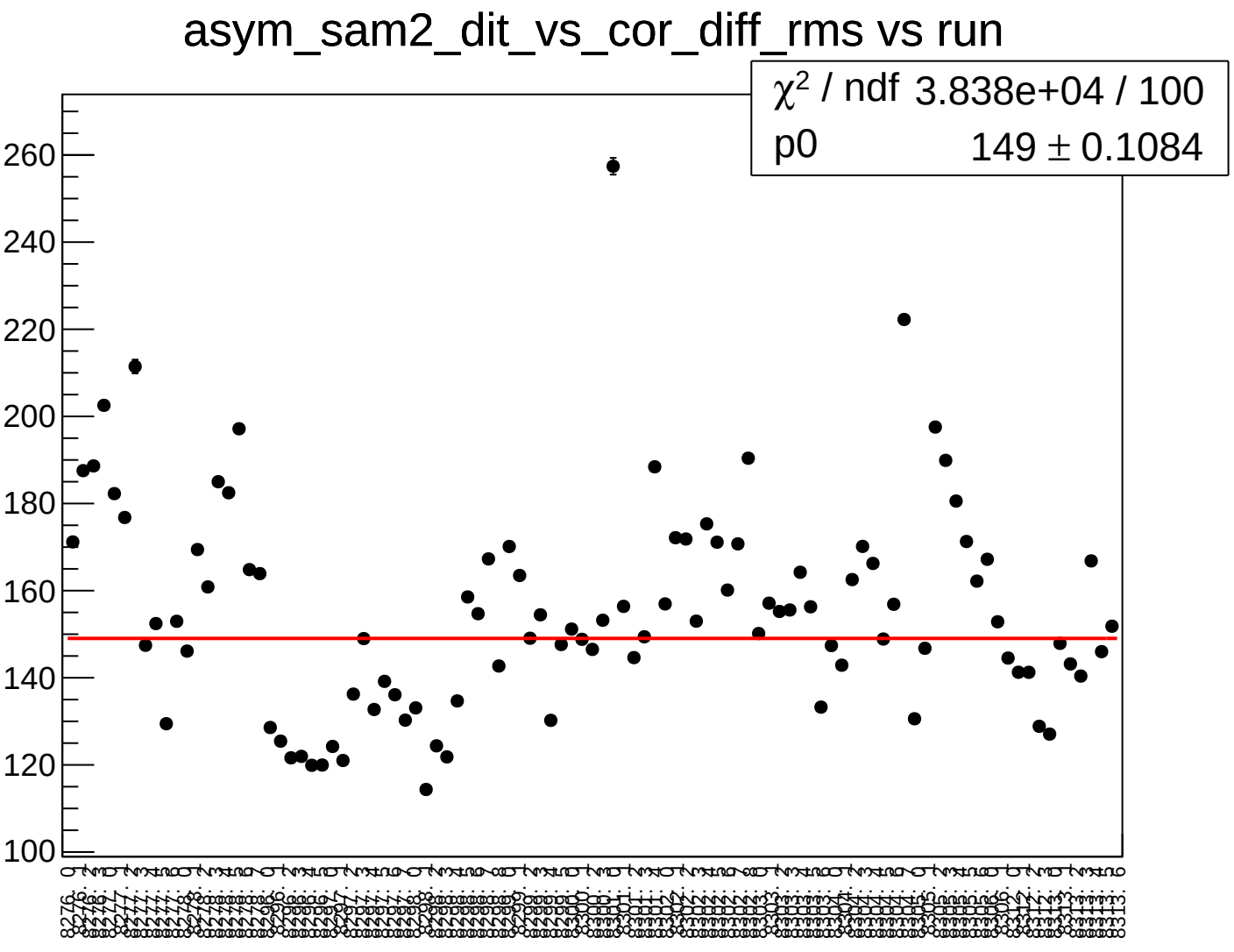

pull1D
Entries 101
Mean 0.00873
Std Dev 1.03
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

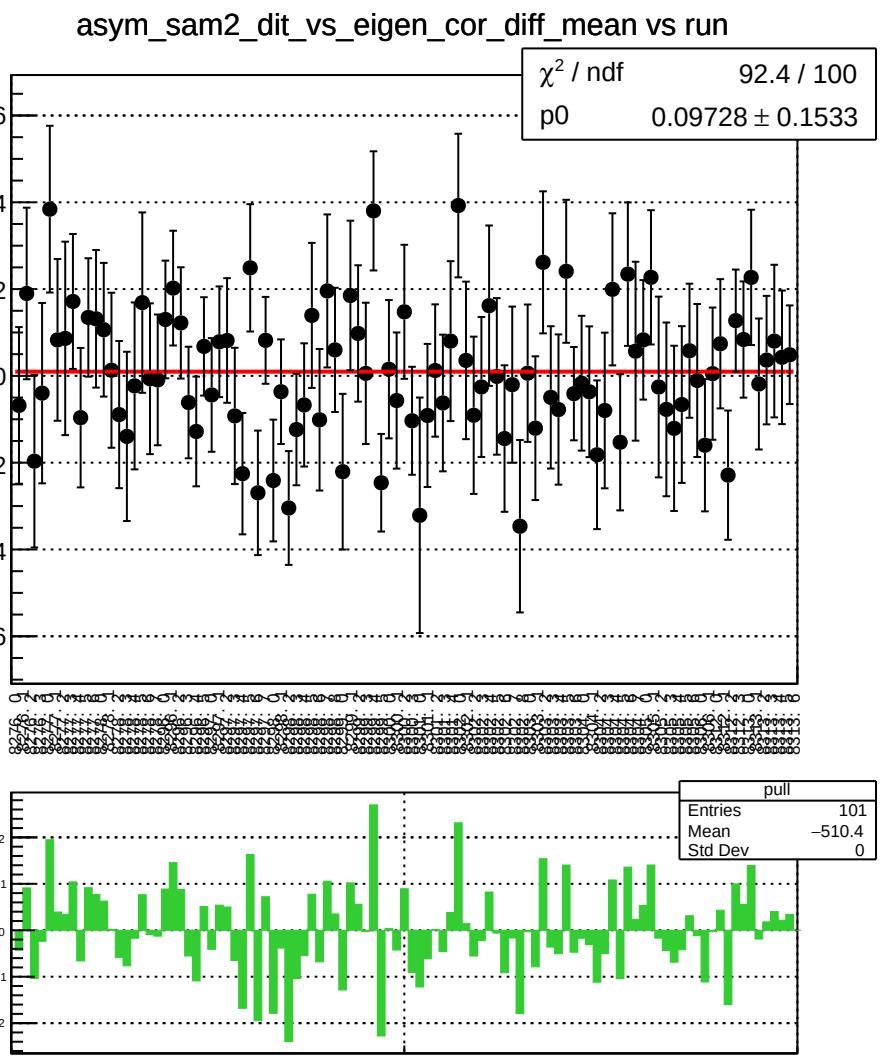

asym_sam2_rms vs run
χ^2 / ndf 7735 / 100
p0 4565 ± 3.295
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000

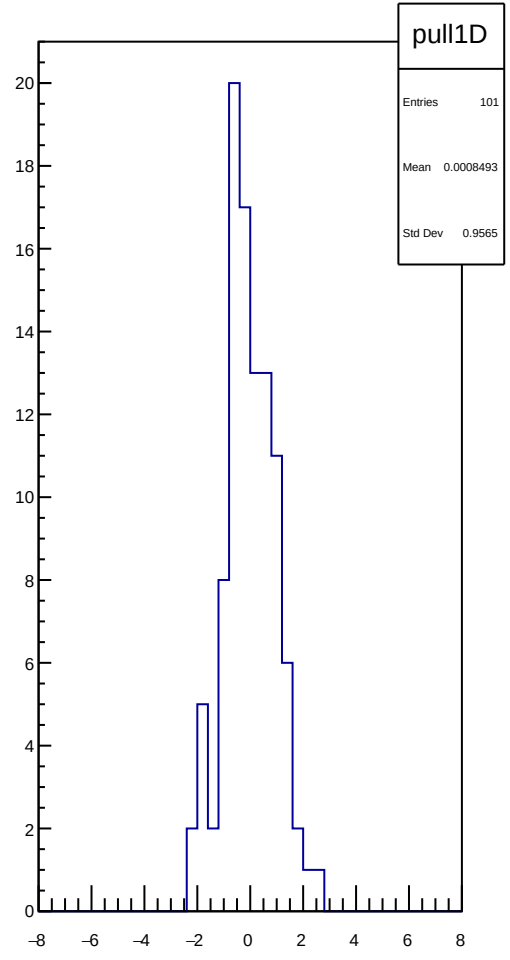

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 113 / 100
p0 −2.532e−13 ± 3.859e−13
pull
Entries 101
Mean 71.49
Std Dev 39.15
pull1D
Entries 101
Mean −0.1056
Std Dev 1.053

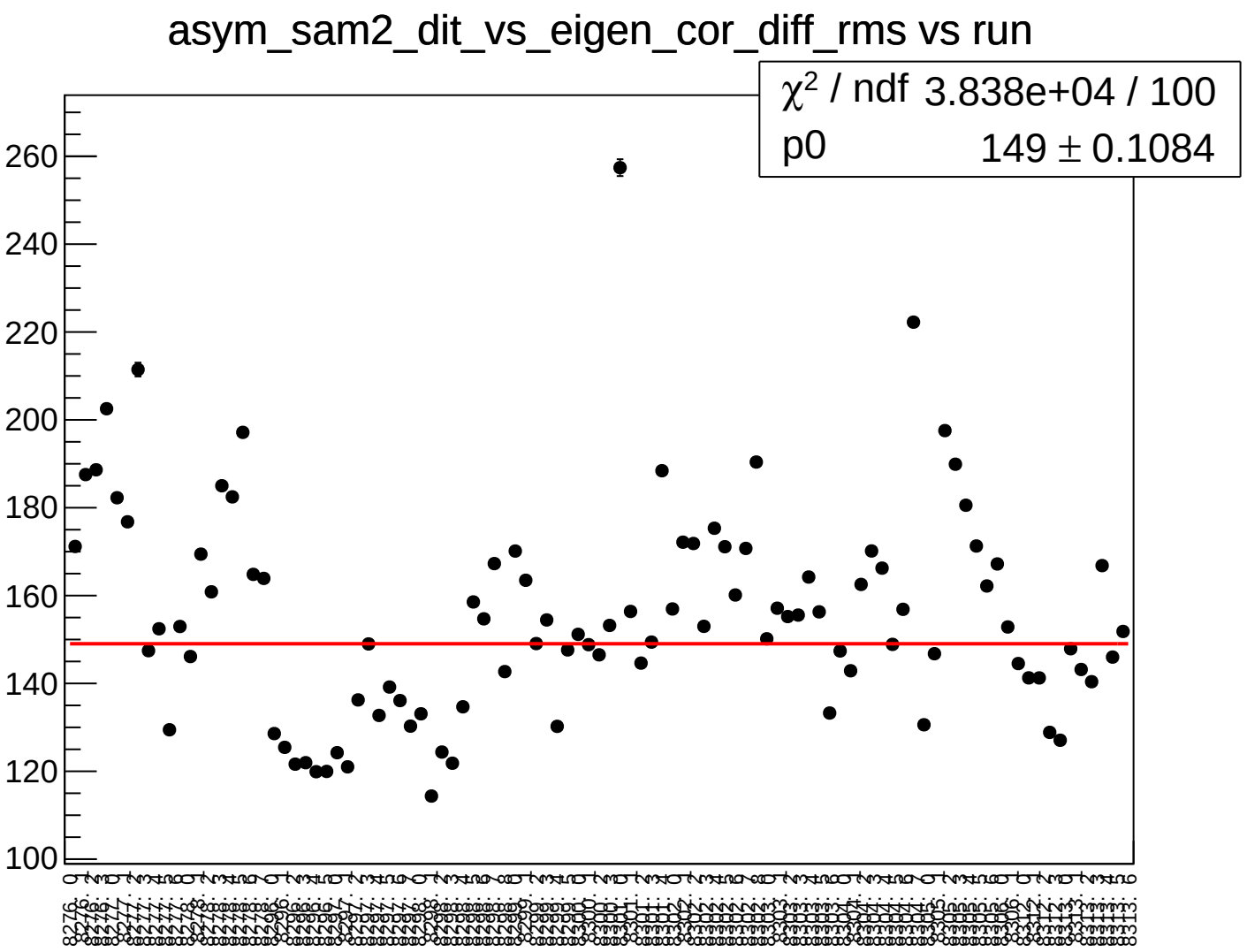

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.038e+06 / 100
p0 2.574e−10 ± 2.729e−13
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

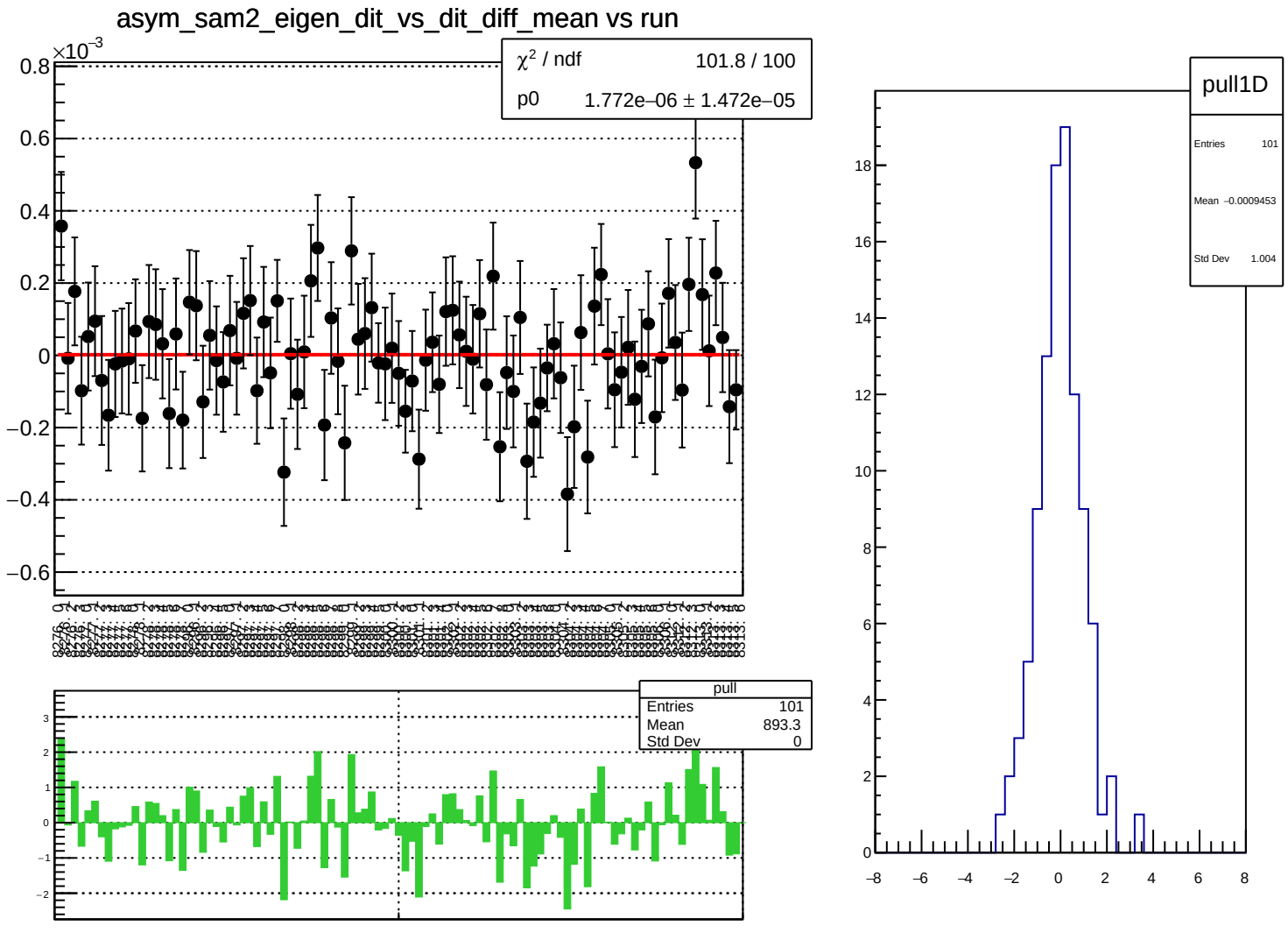

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 92.4 / 100
p0 0.09728 ± 0.1533
pull
Entries 101
Mean −510.4
Std Dev 0
pull1D
Entries 101
Mean 0.0008493
Std Dev 0.9565

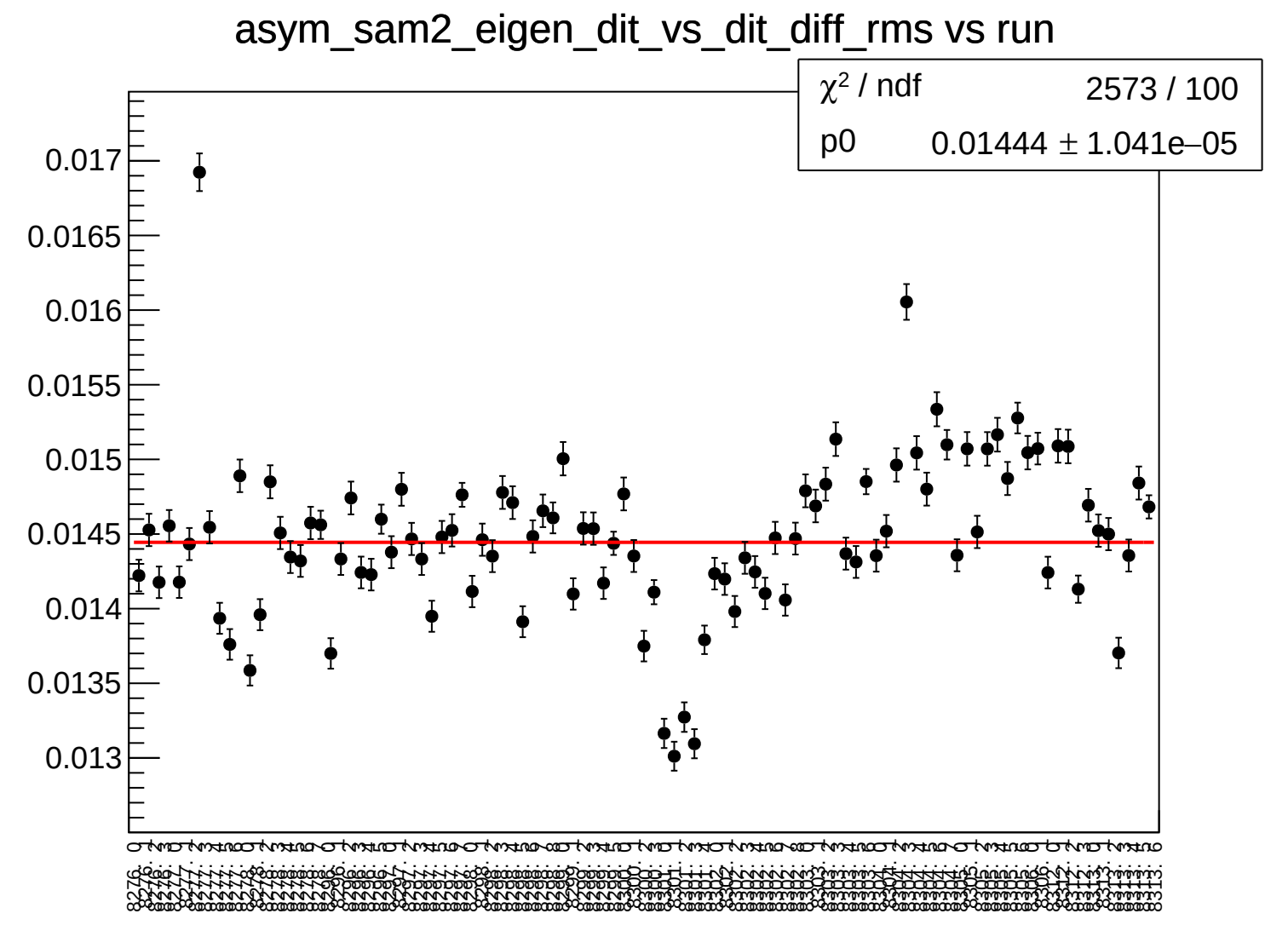

asym_sam2_dit_vs_cor_diff_rms vs run
χ² / ndf 3.838e+04 / 100
p0 149 ± 0.1084
260
240
220
200
180
160
140
120
100

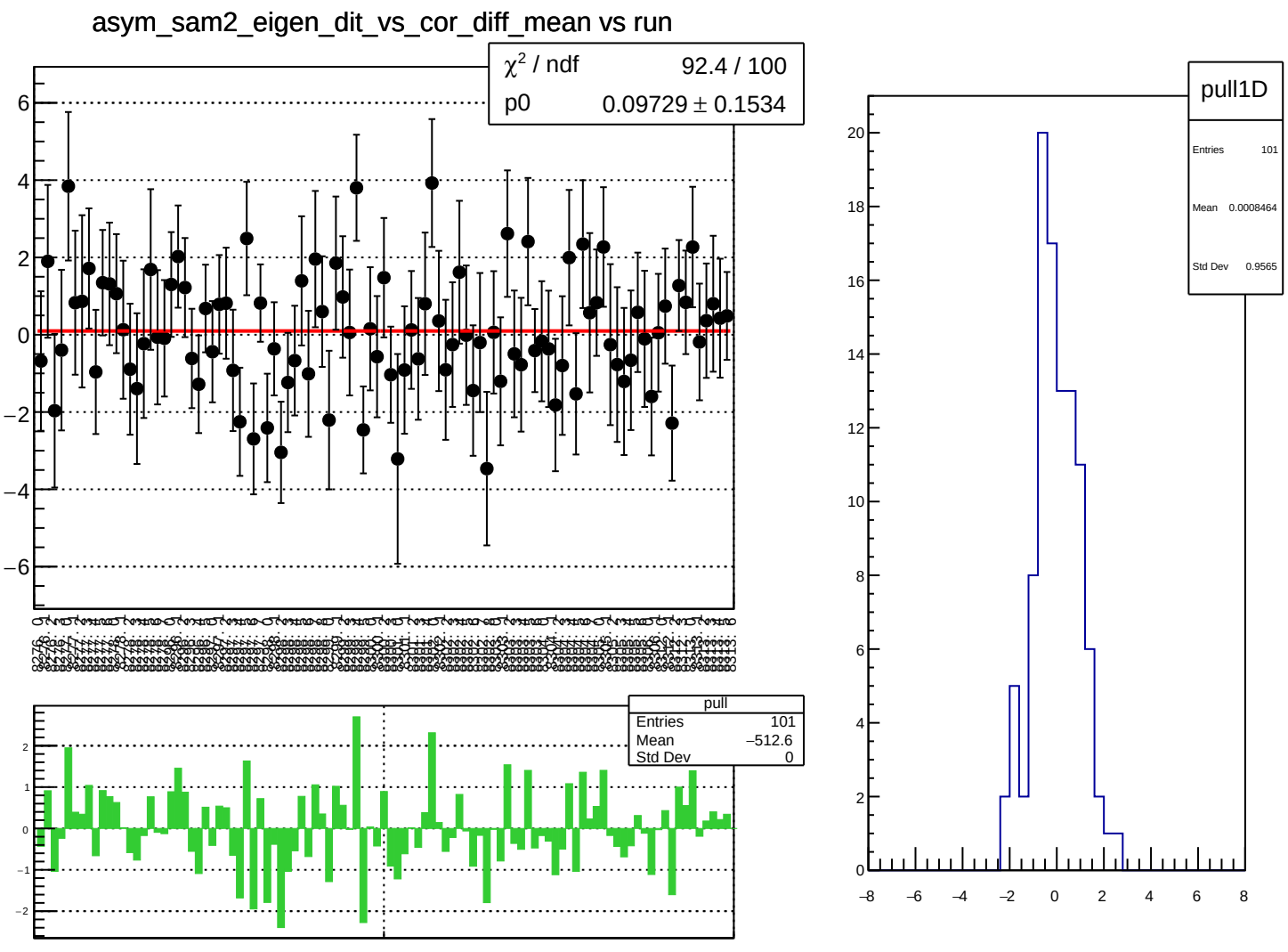

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.4 / 100
p0 0.09728 ± 0.1533
pull
Entries 101
Mean −510.4
Std Dev 0

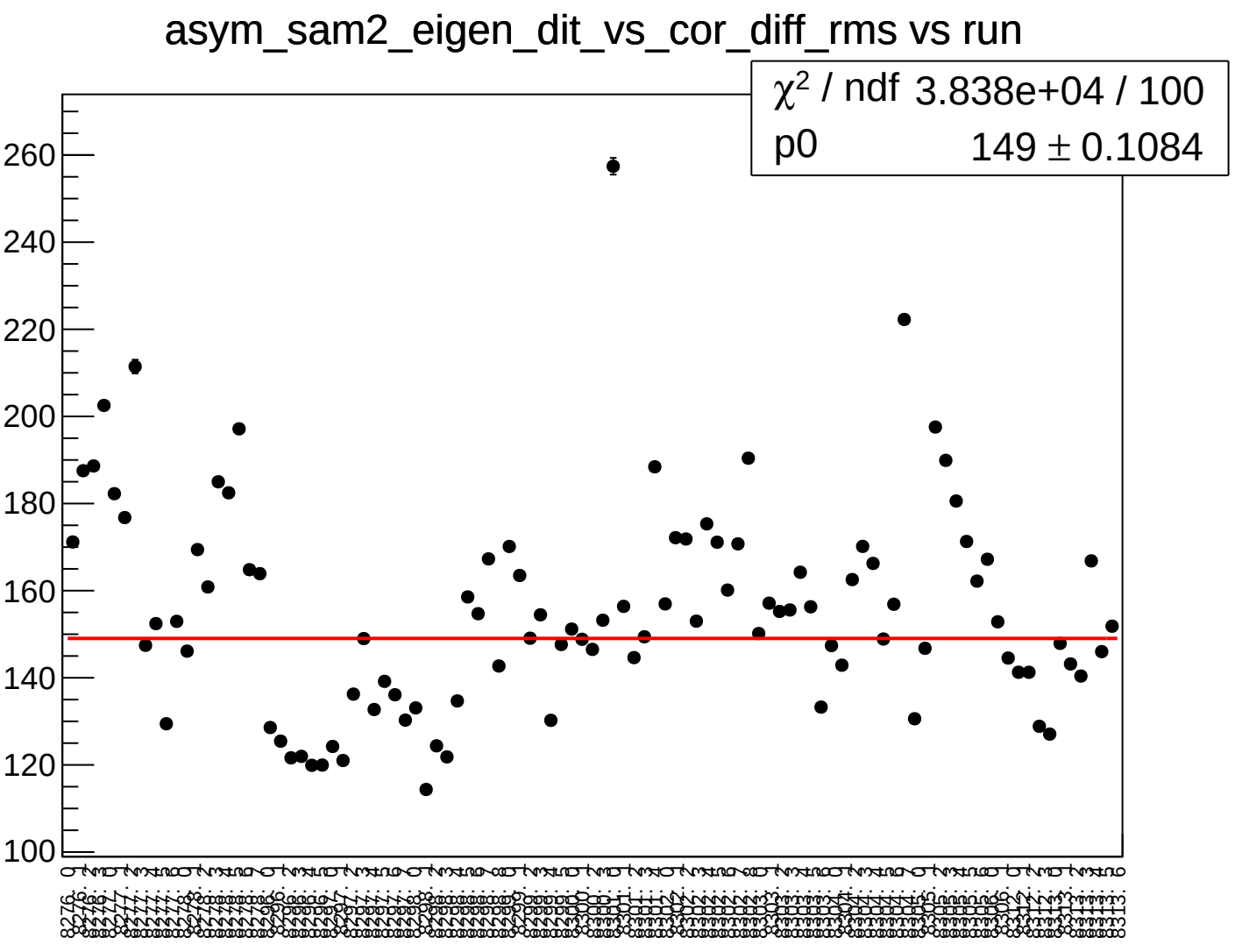

pull1D
Entries 101
Mean 0.0008493
Std Dev 0.9565

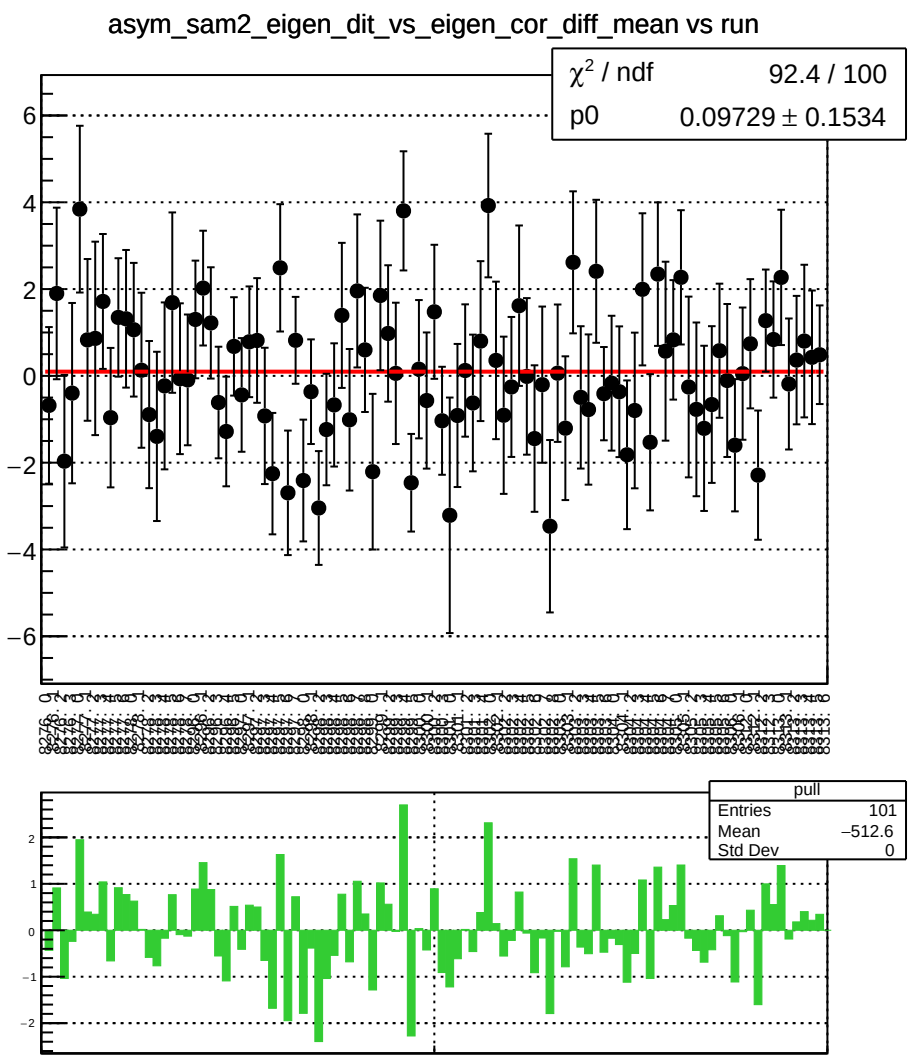

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.838e+04 / 100
p0 149 ± 0.1084
260
240
220
200
180
160
140
120
100

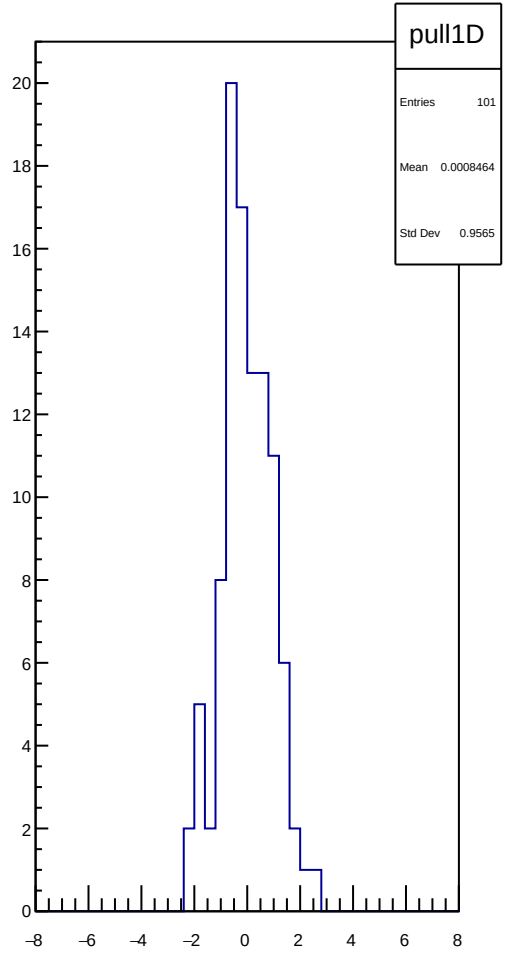

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.8 / 100
p0 1.772e−06 ± 1.472e−05
pull
Entries 101
Mean 893.3
Std Dev 0
pull1D
Entries 101
Mean −0.0009453
Std Dev 1.004

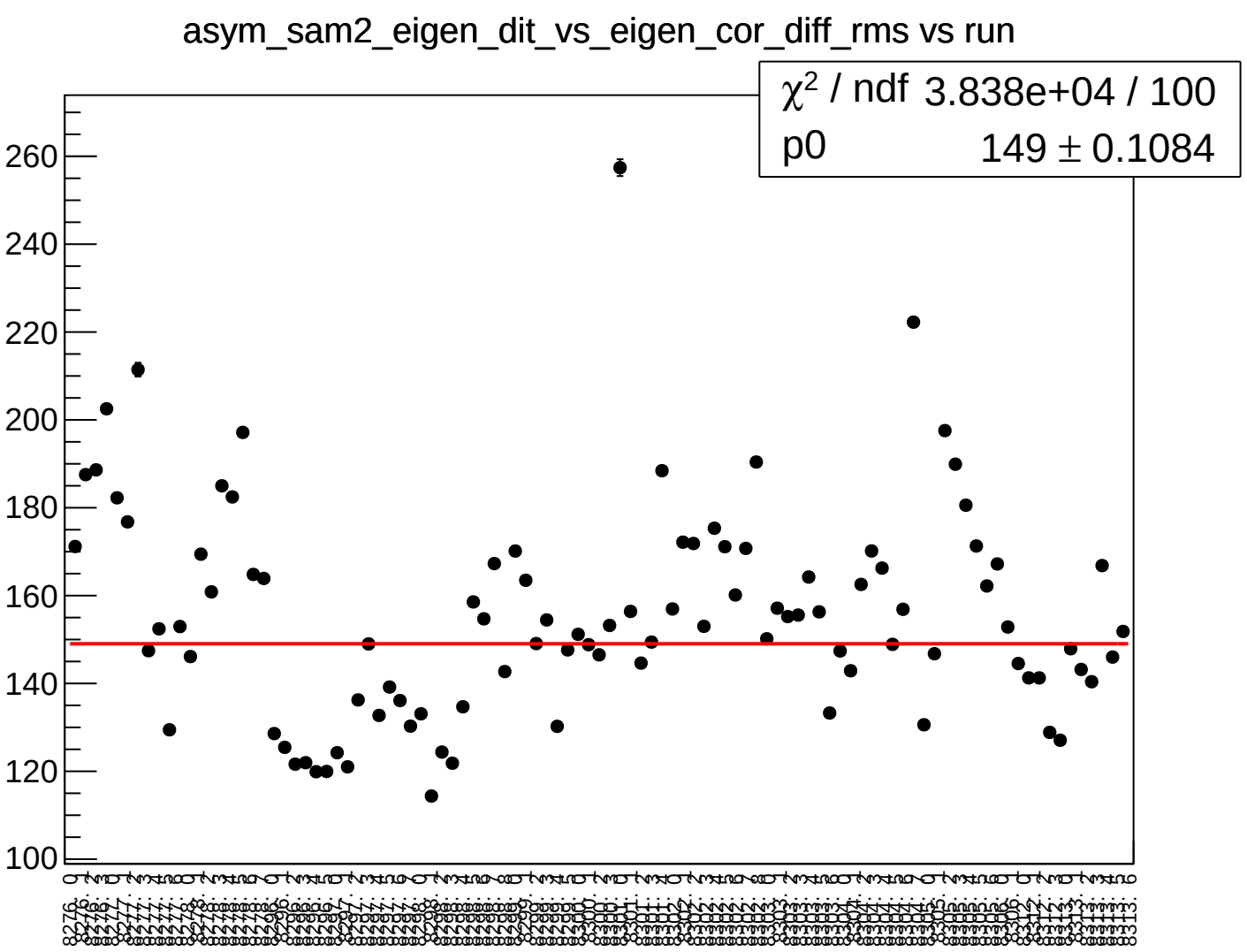

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2573 / 100
p0 0.01444 ± 1.041e−05
0.017
0.0165
0.016
0.0155
0.015
0.0145
0.014
0.0135
0.013

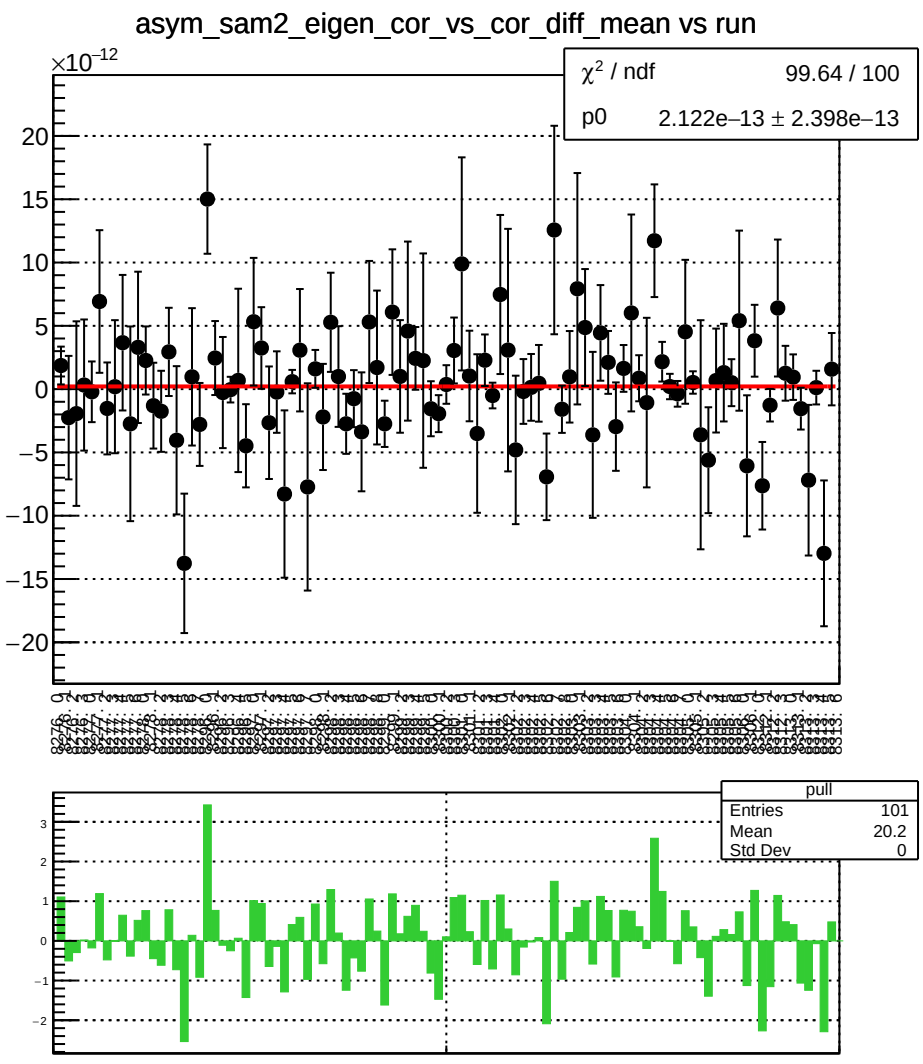

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.4 / 100
p0 0.09729 ± 0.1534
pull
Entries 101
Mean −512.6
Std Dev 0
pull1D
Entries 101
Mean 0.0008464
Std Dev 0.9565

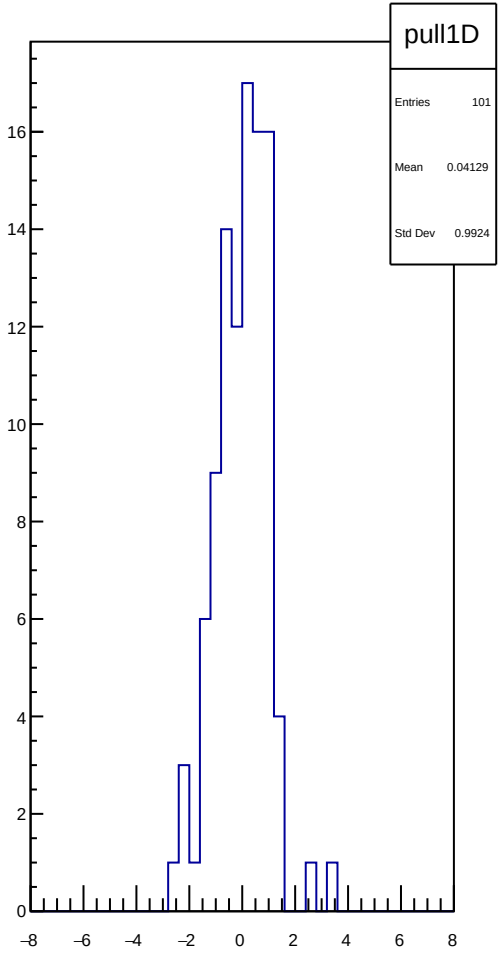

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.838e+04 / 100
p0 149 ± 0.1084
260
240
220
200
180
160
140
120
100

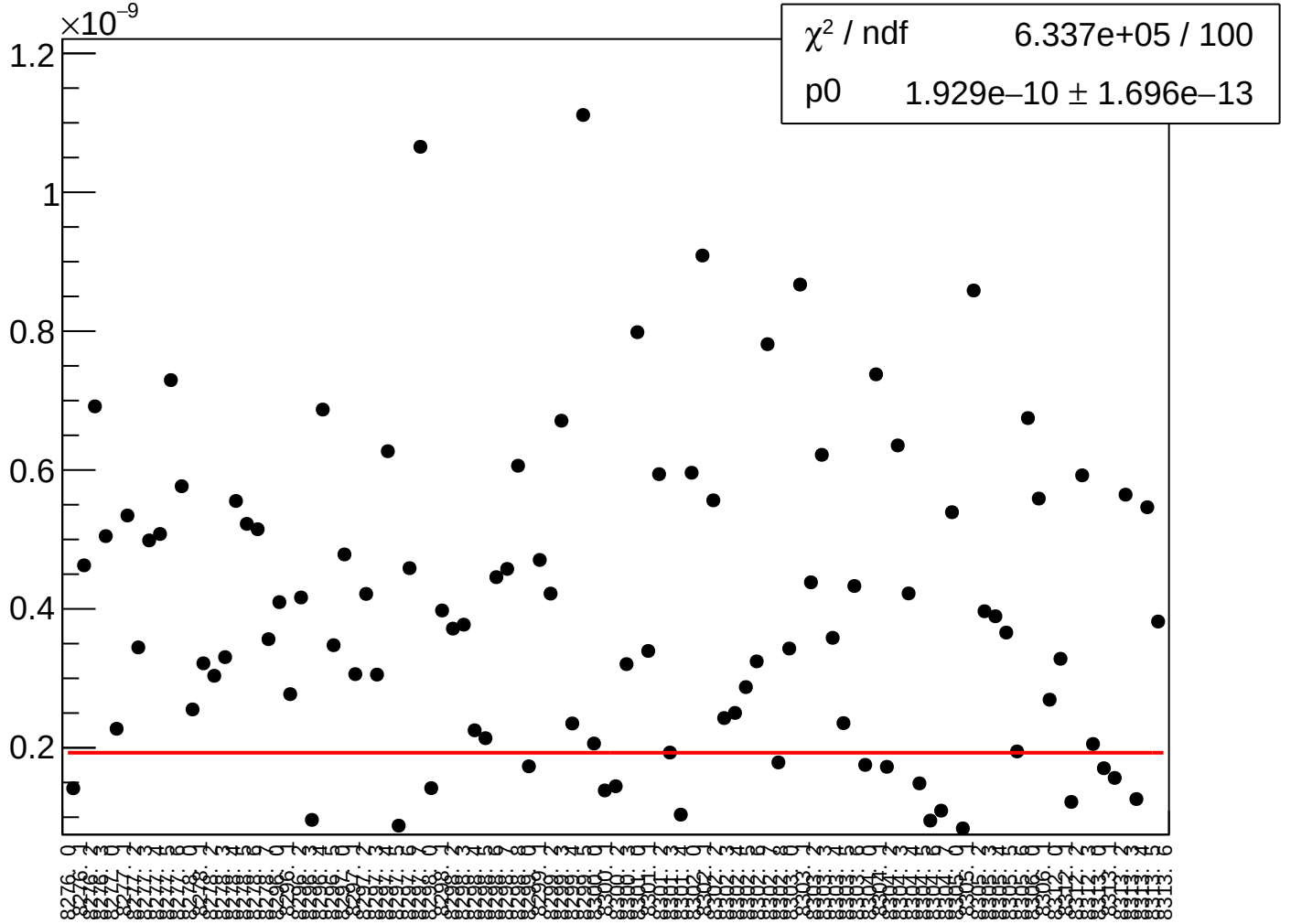

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.4 / 100
p0 0.09729 ± 0.1534
pull
Entries 101
Mean −512.6
Std Dev 0

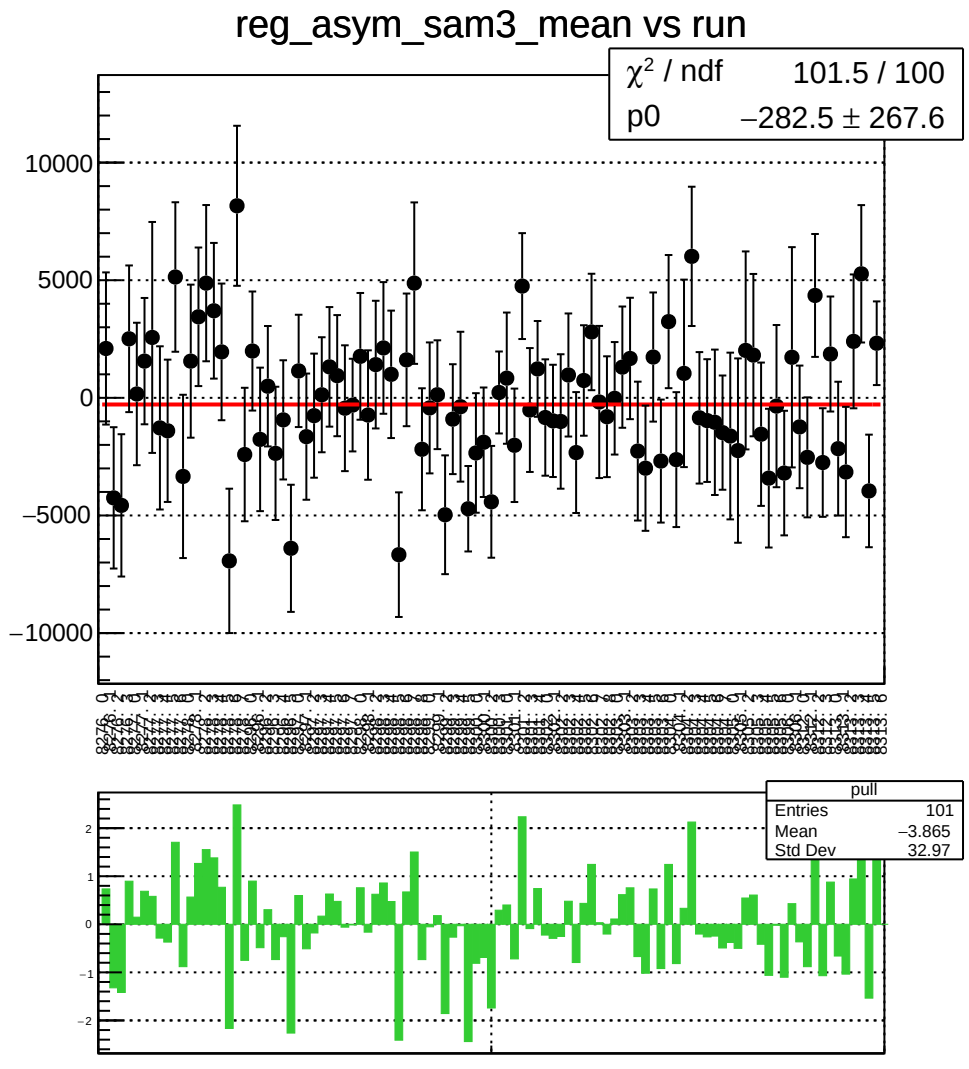

pull1D
Entries 101
Mean 0.0008464
Std Dev 0.9565

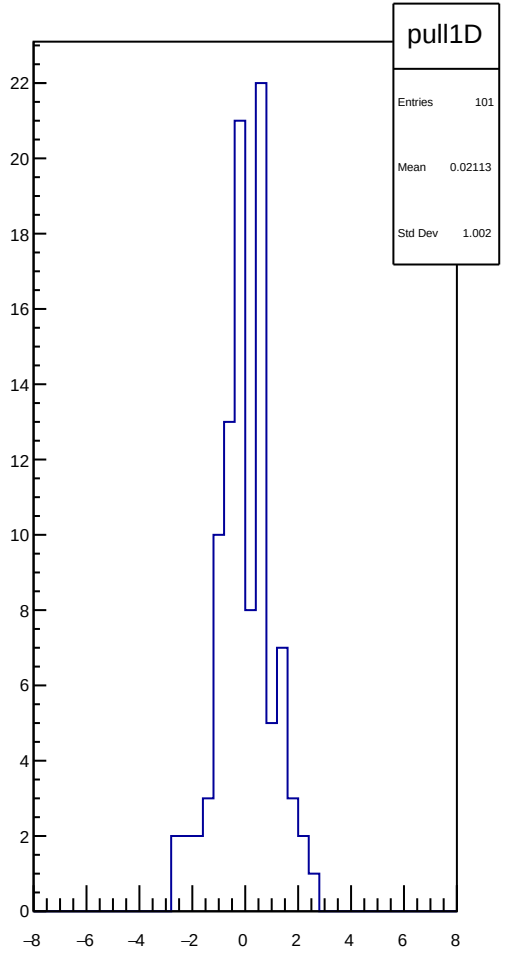

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.838e+04 / 100
p0 149 ± 0.1084
260
240
220
200
180
160
140
120
100

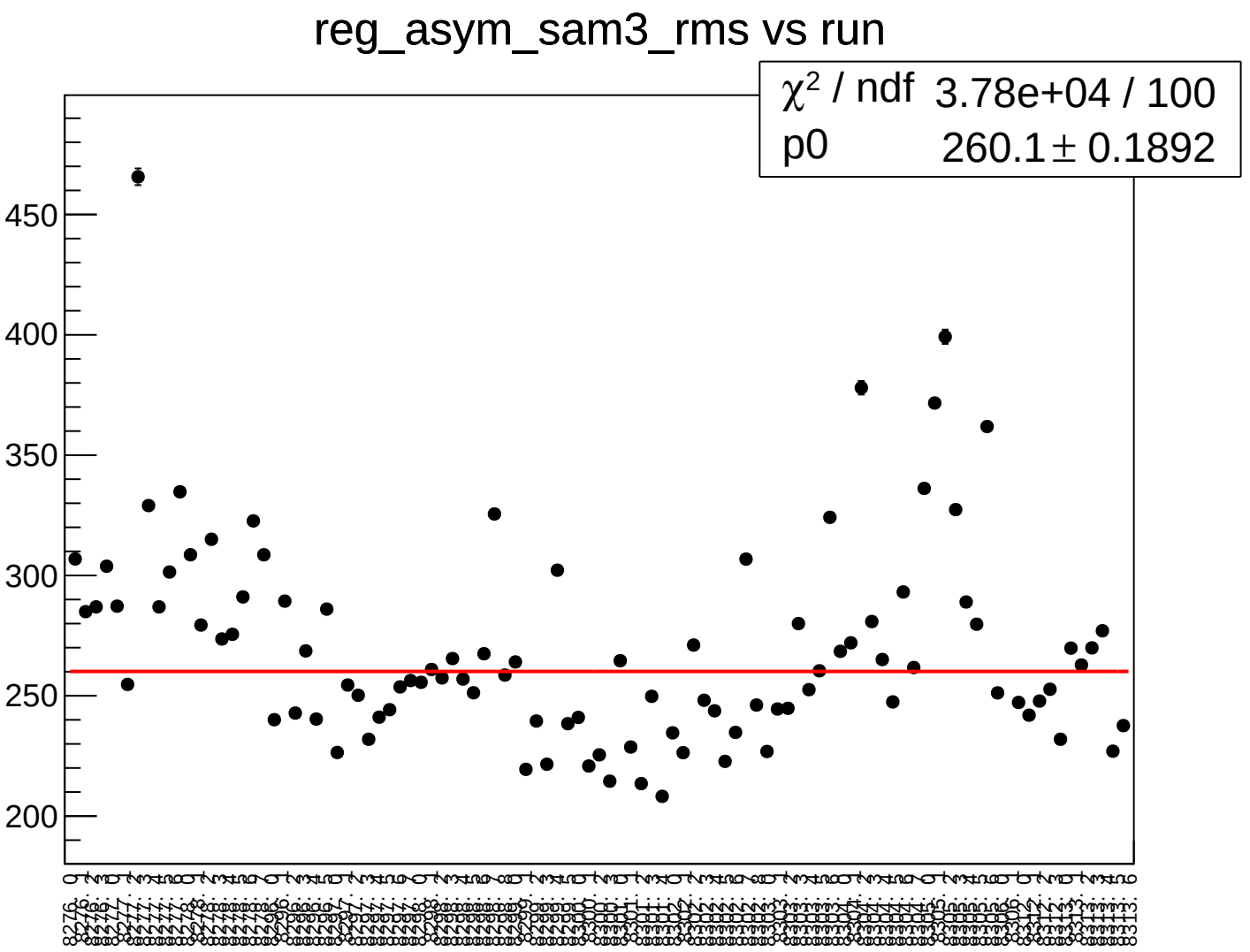

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.64 / 100
p0 2.122e−13 ± 2.398e−13
pull
Entries 101
Mean 20.2
Std Dev 0

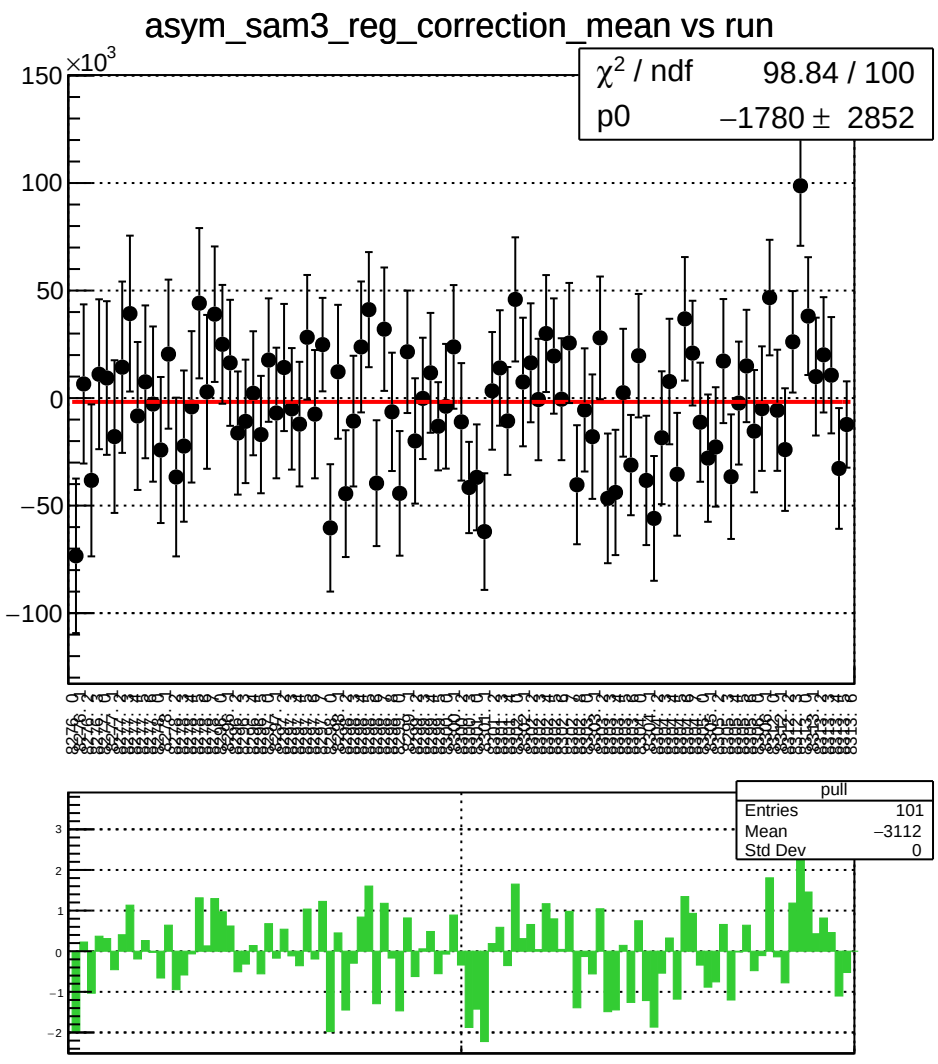

pull1D
Entries 101
Mean 0.04129
Std Dev 0.9924

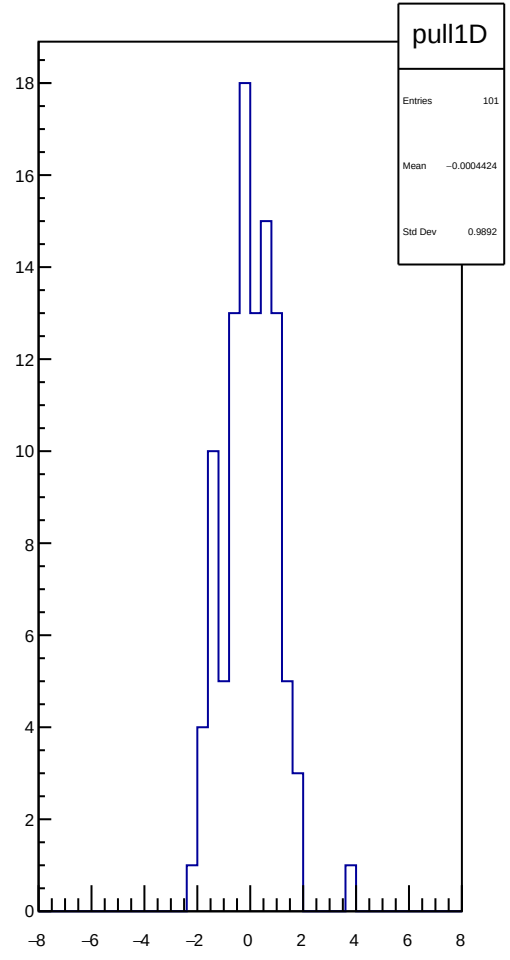

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.337e+05 / 100
p0 1.929e−10 ± 1.696e−13
1.2
1
0.8
0.6
0.4
0.2

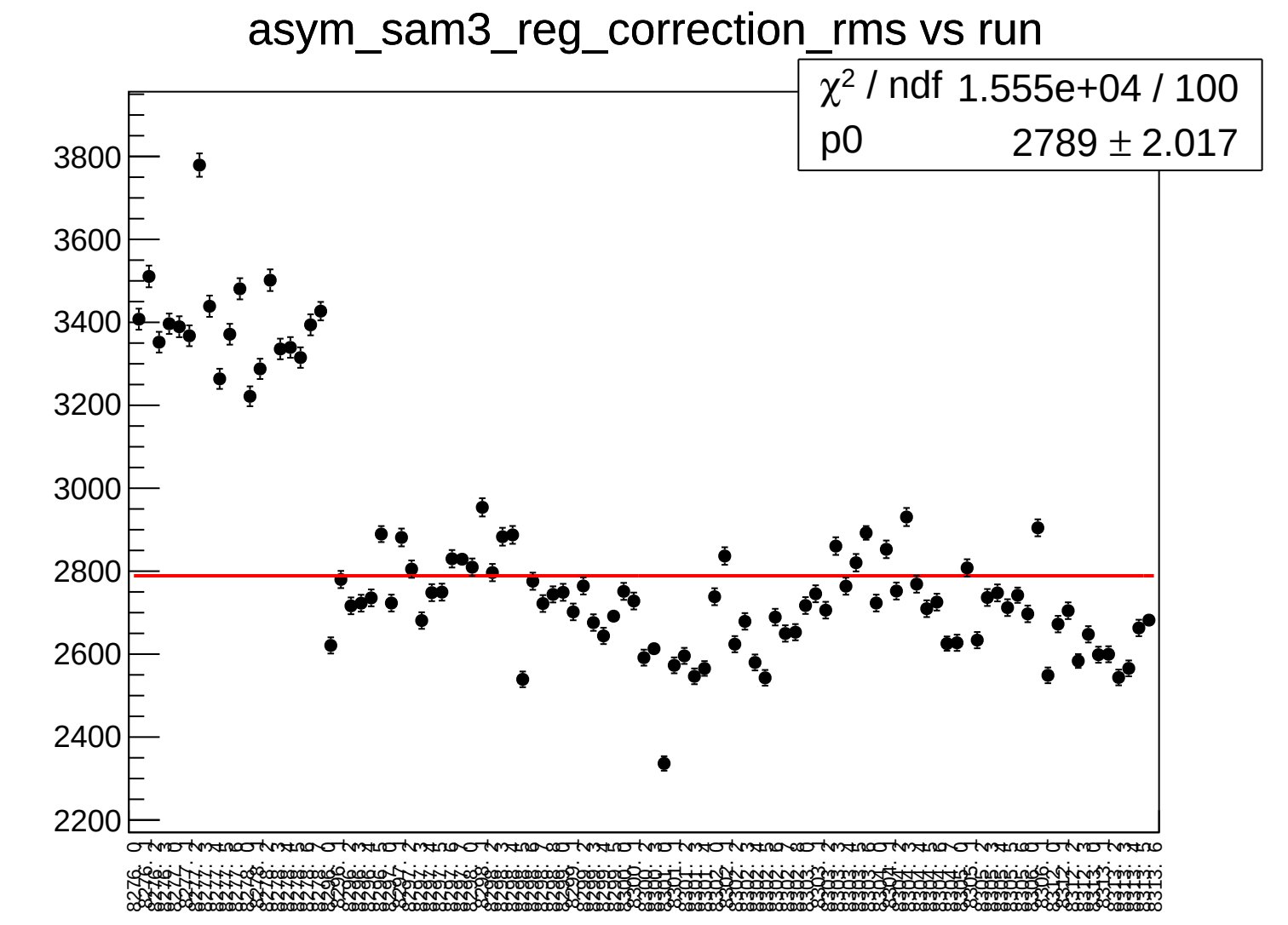

reg_asym_sam3_mean vs run
χ² / ndf 101.5 / 100
p0 −282.5 ± 267.6
10000
5000
0
−5000
−10000
pull
Entries 101
Mean −3.865
Std Dev 32.97
2
1
0
−1
−2

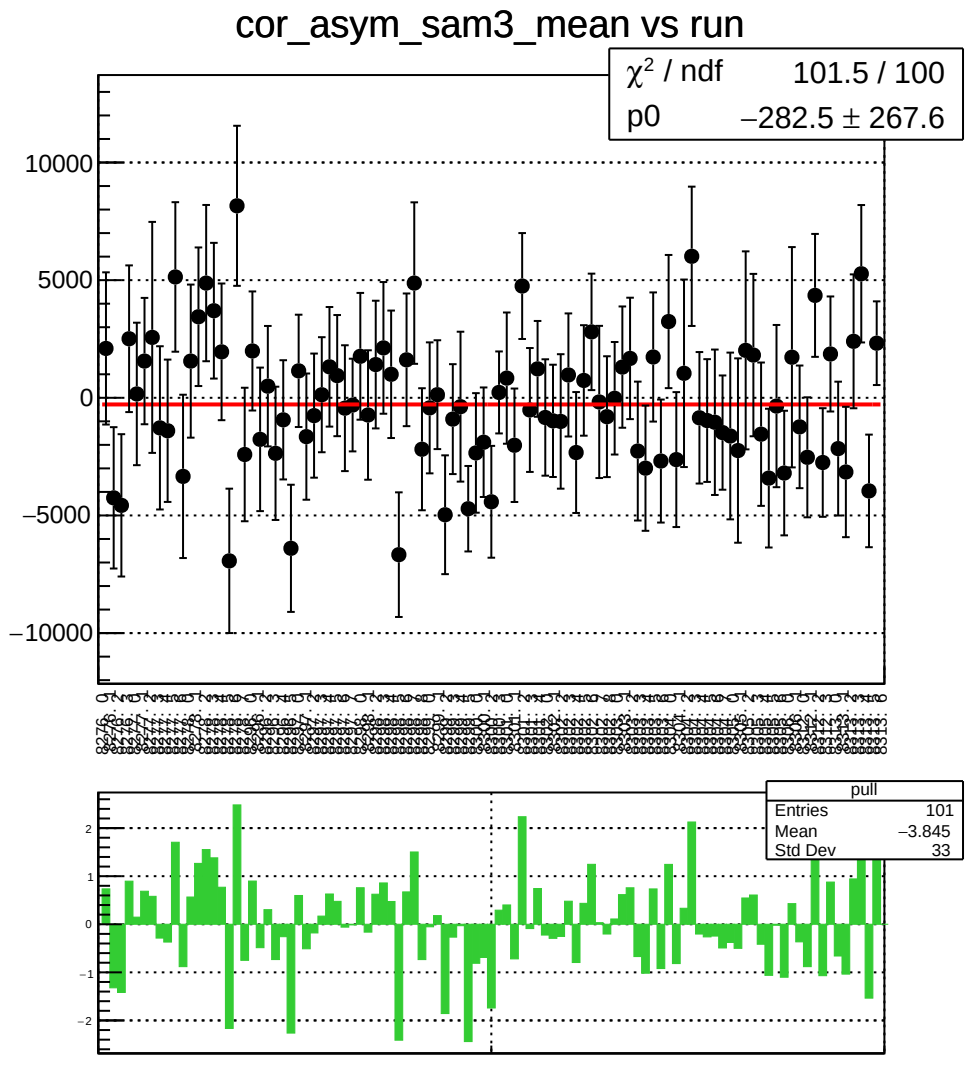

pull1D
Entries 101
Mean 0.02113
Std Dev 1.002
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

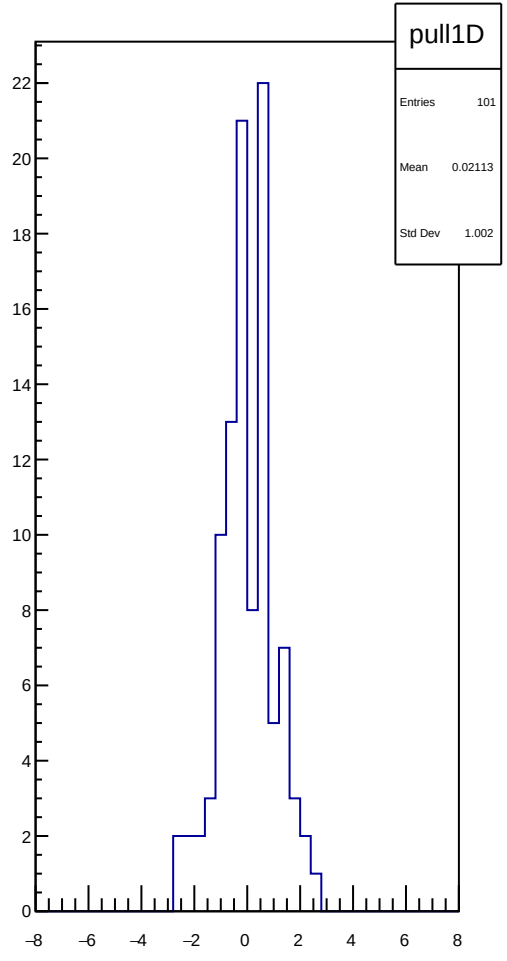

reg_asym_sam3_rms vs run
χ² / ndf 3.78e+04 / 100
p0 260.1 ± 0.1892
450
400
350
300
250
200

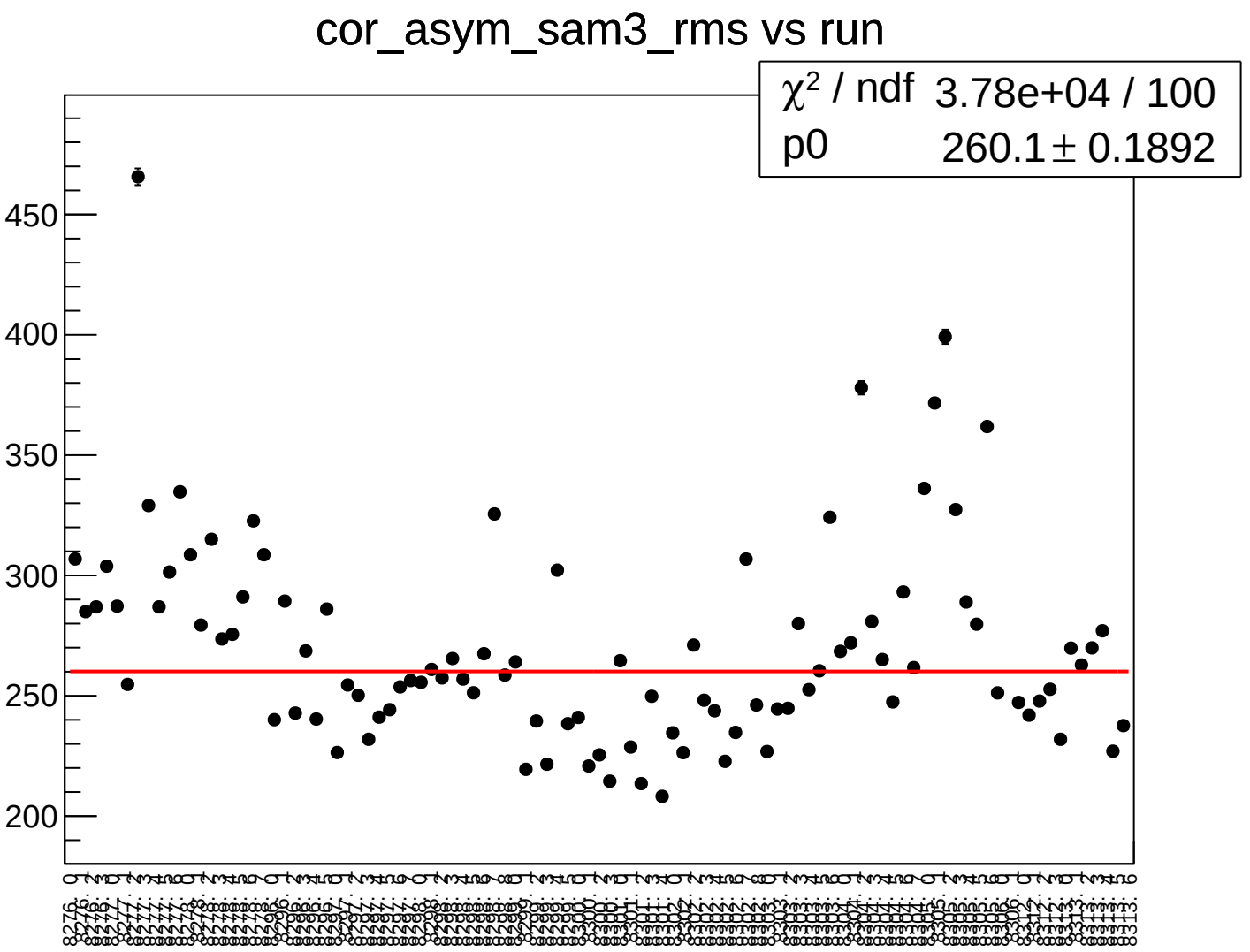

asym_sam3_reg_correction_mean vs run
χ² / ndf 98.84 / 100
p0 −1780 ± 2852
×10³
150
100
50
0
−50
−100
pull
Entries 101
Mean −3112
Std Dev 0
3
2
1
0
−1
−2

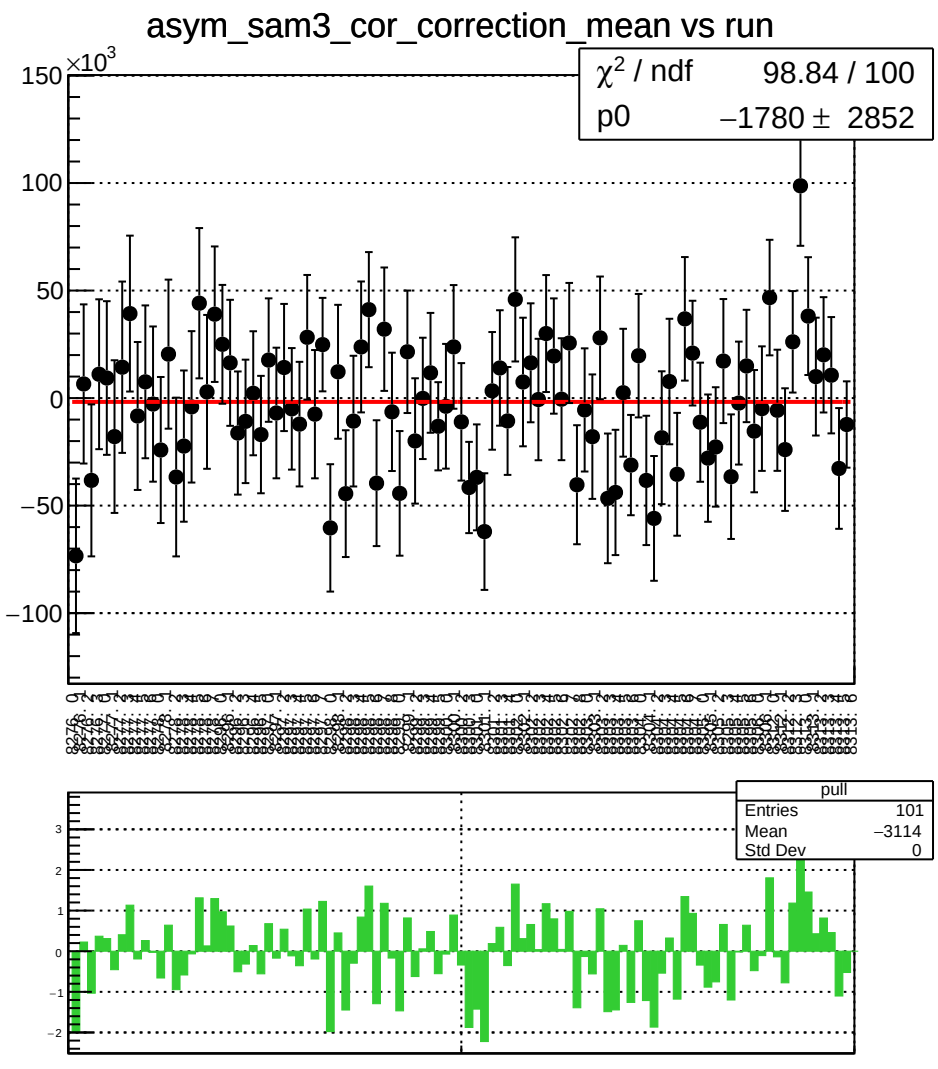

pull1D
Entries 101
Mean −0.0004424
Std Dev 0.9892
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

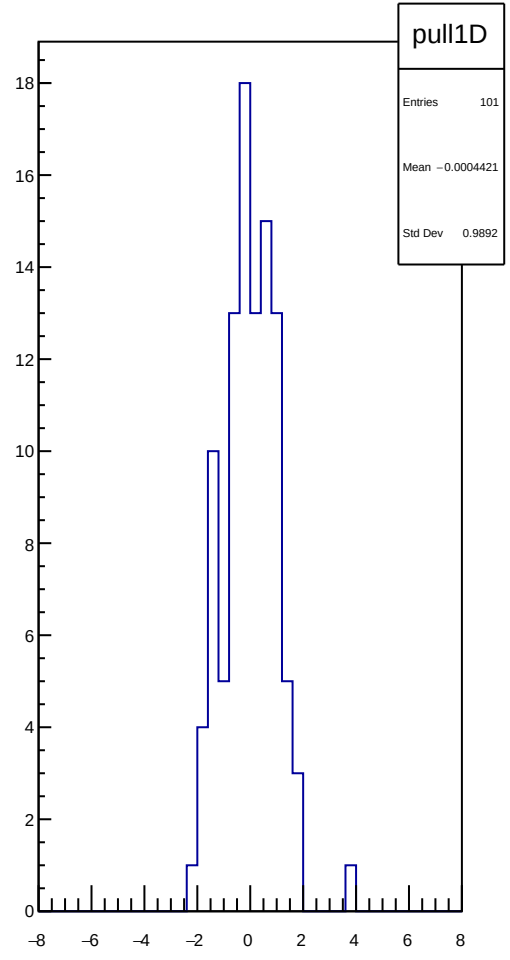

asym_sam3_reg_correction_rms vs run
χ² / ndf 1.555e+04 / 100
p0 2789 ± 2.017
3800
3600
3400
3200
3000
2800
2600
2400
2200

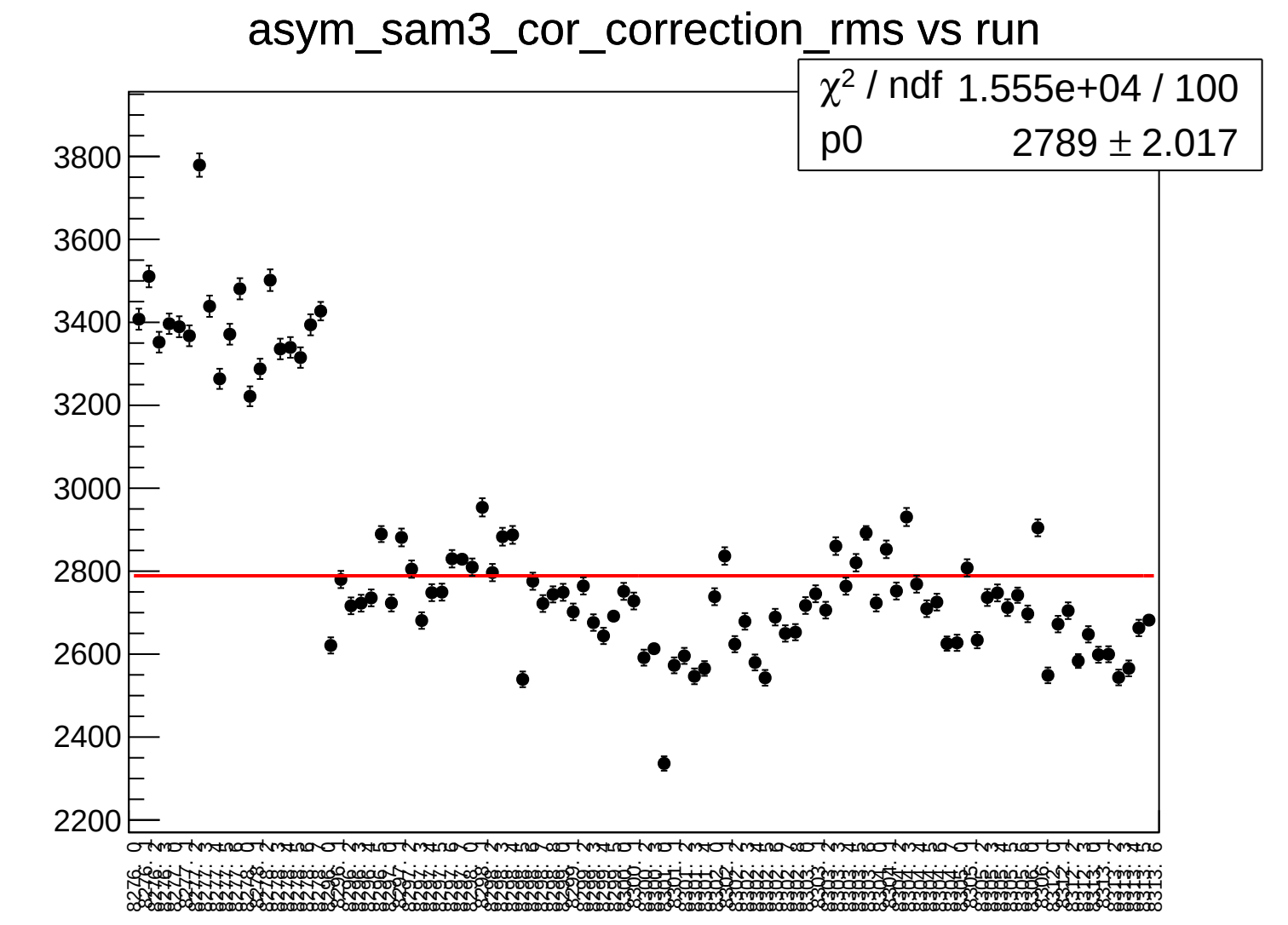

cor_asym_sam3_mean vs run
χ² / ndf 101.5 / 100
p0 −282.5 ± 267.6
10000
5000
0
−5000
−10000
pull
Entries 101
Mean −3.845
Std Dev 33
2
1
0
−1
−2

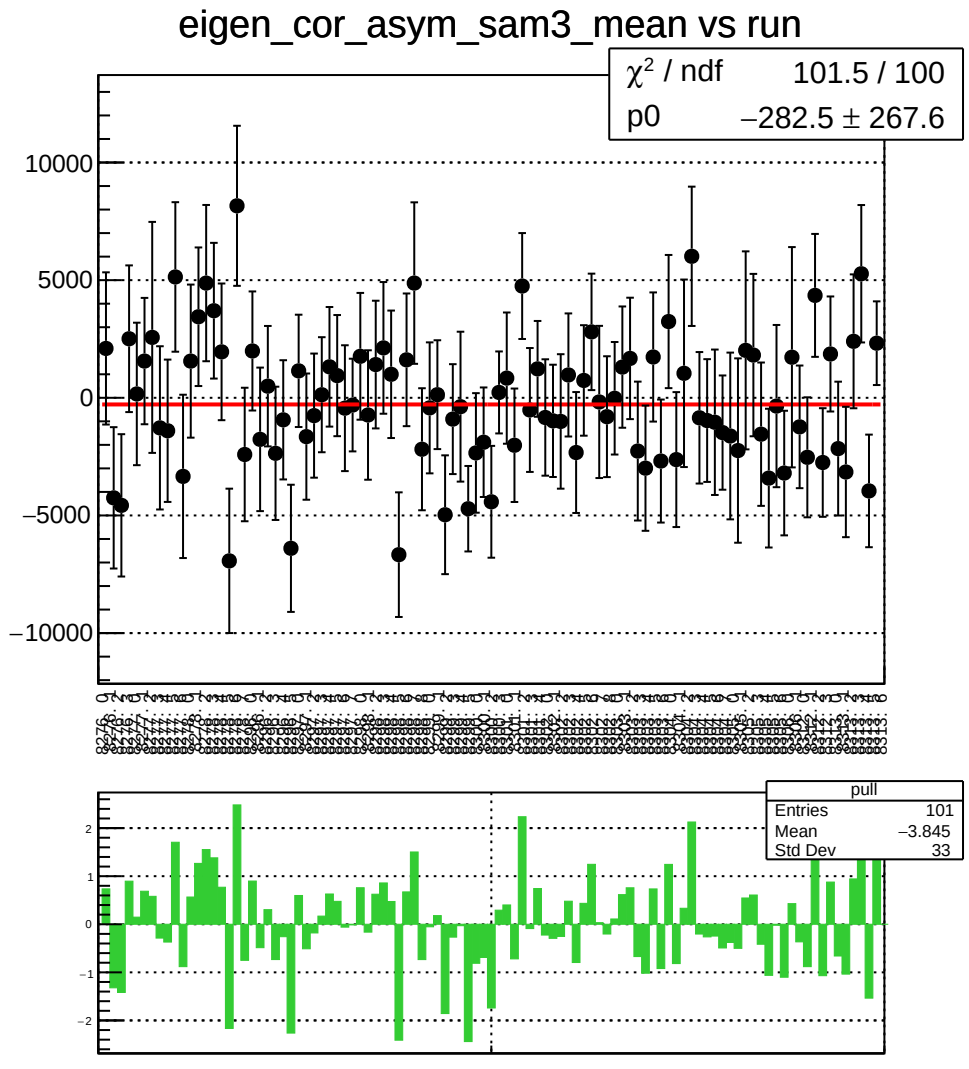

pull1D
Entries 101
Mean 0.02113
Std Dev 1.002
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

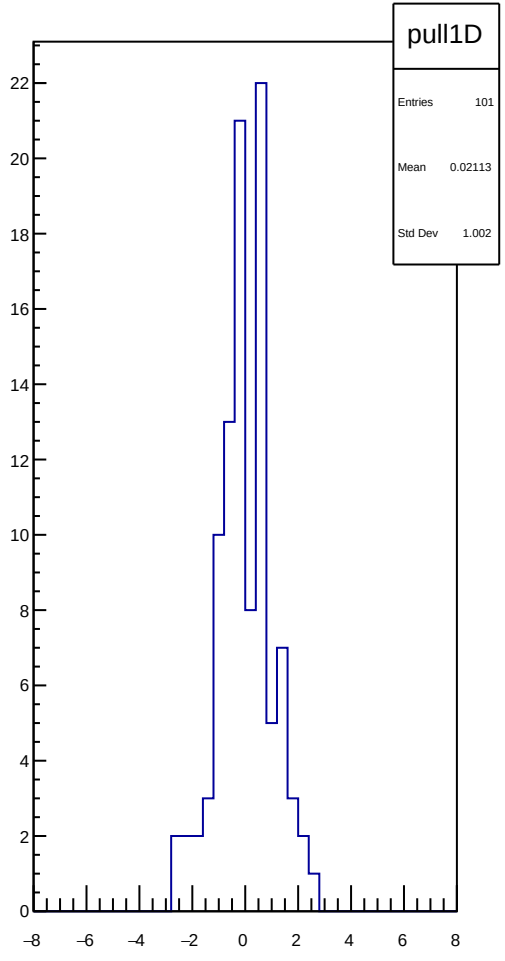

cor_asym_sam3_rms vs run
χ² / ndf 3.78e+04 / 100
p0 260.1 ± 0.1892
450
400
350
300
250
200

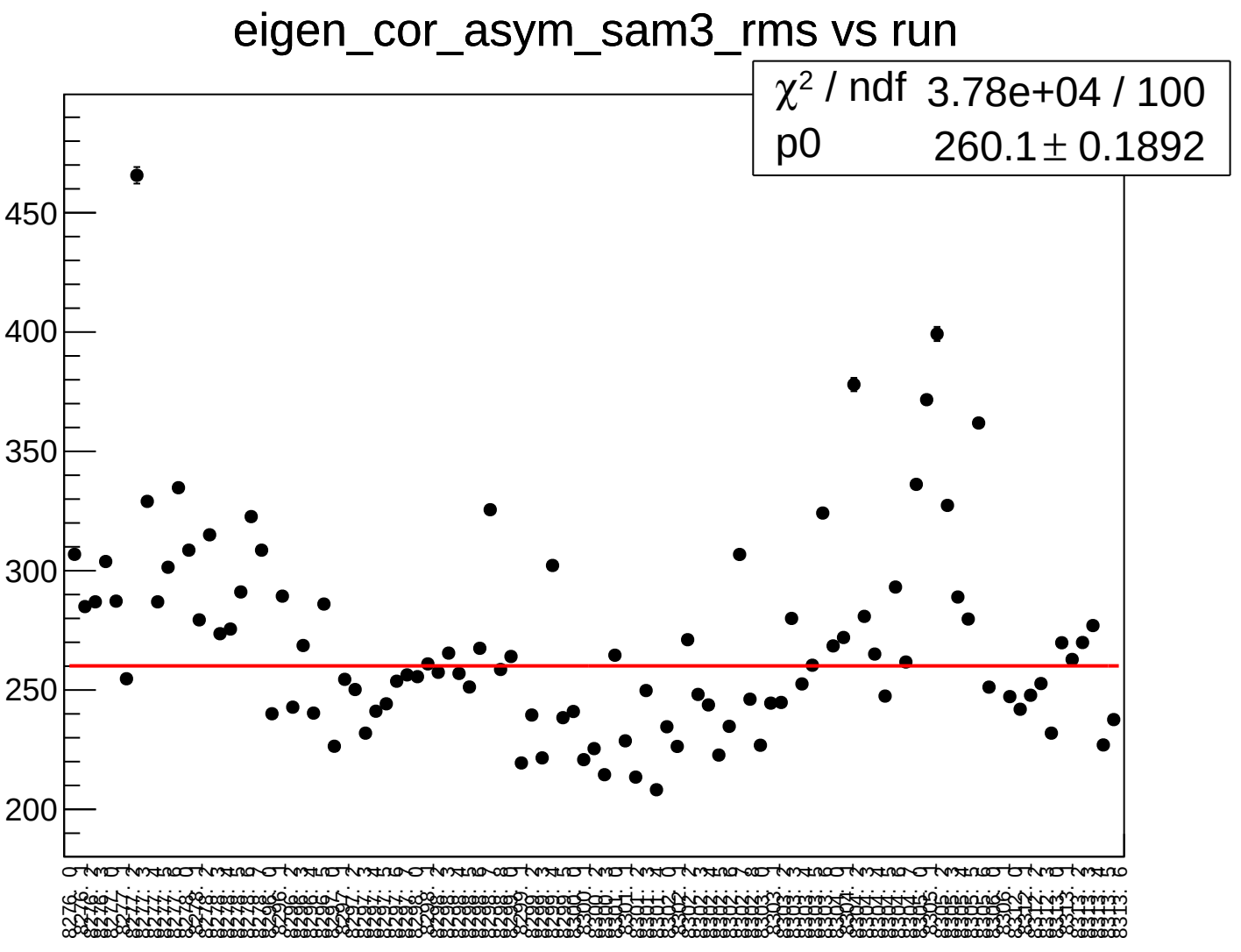

asym_sam3_cor_correction_mean vs run
χ² / ndf 98.84 / 100
p0 −1780 ± 2852
×10³
150
100
50
0
−50
−100
pull
Entries 101
Mean −3114
Std Dev 0
3
2
1
0
−1
−2

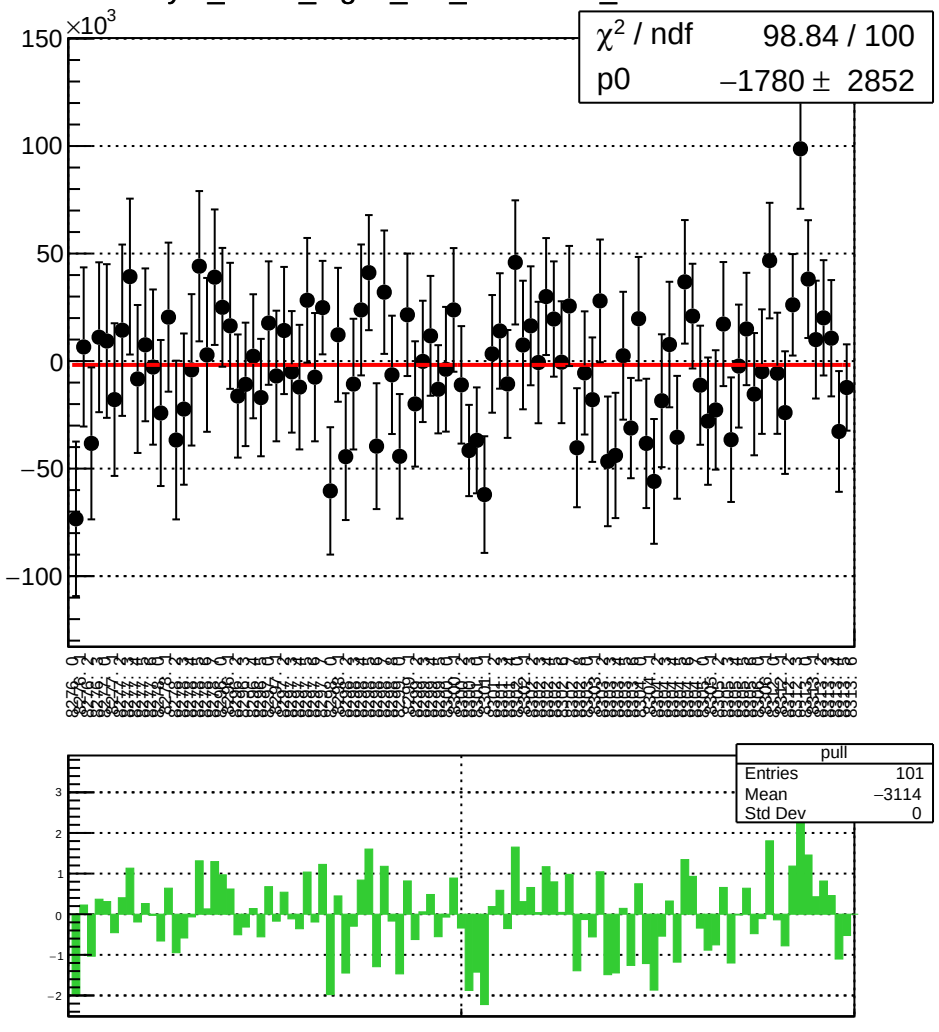

pull1D
Entries 101
Mean −0.0004421
Std Dev 0.9892
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

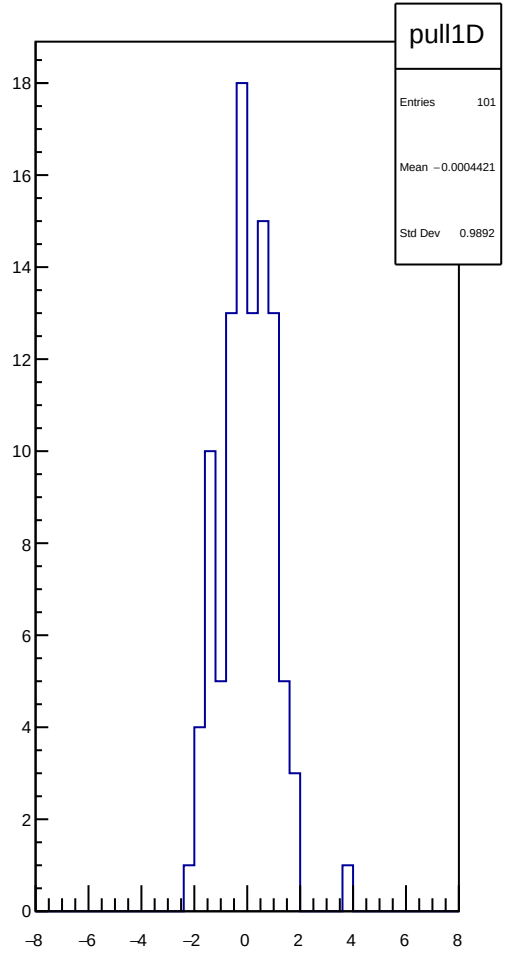

asym_sam3_cor_correction_rms vs run
χ² / ndf 1.555e+04 / 100
p0 2789 ± 2.017
3800
3600
3400
3200
3000
2800
2600
2400
2200

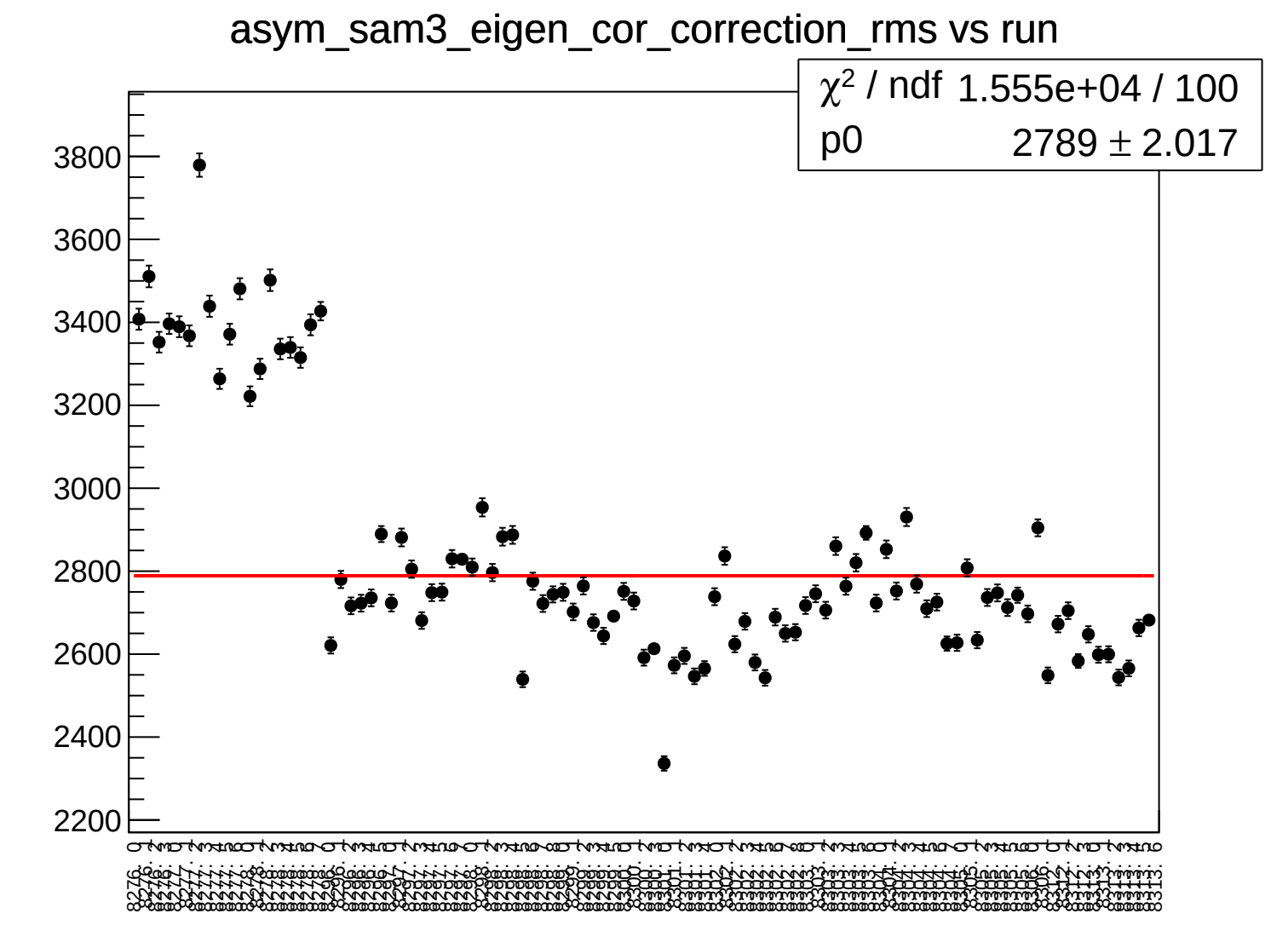

eigen_cor_asym_sam3_mean vs run
χ² / ndf 101.5 / 100
p0 −282.5 ± 267.6
10000
5000
0
−5000
−10000
pull
Entries 101
Mean −3.845
Std Dev 33
2
1
0
−1
−2

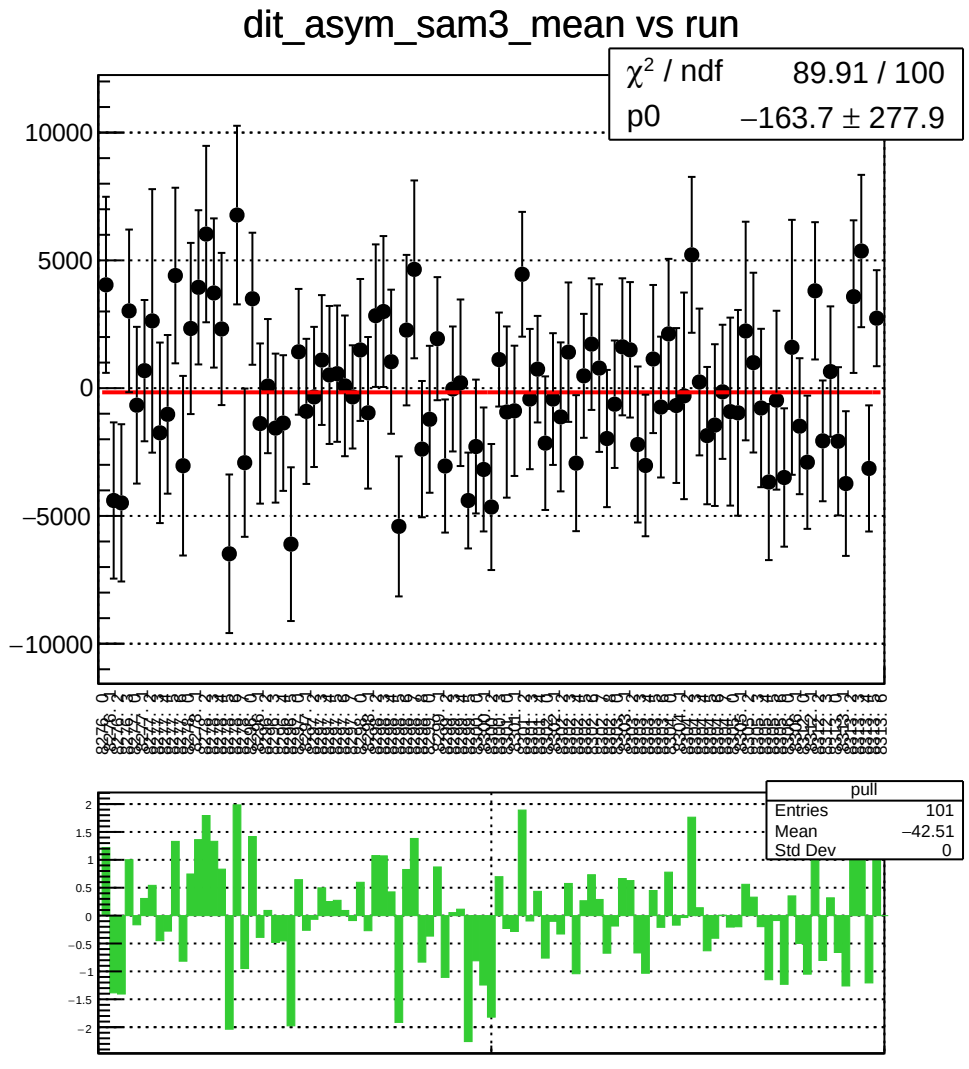

pull1D
Entries 101
Mean 0.02113
Std Dev 1.002
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

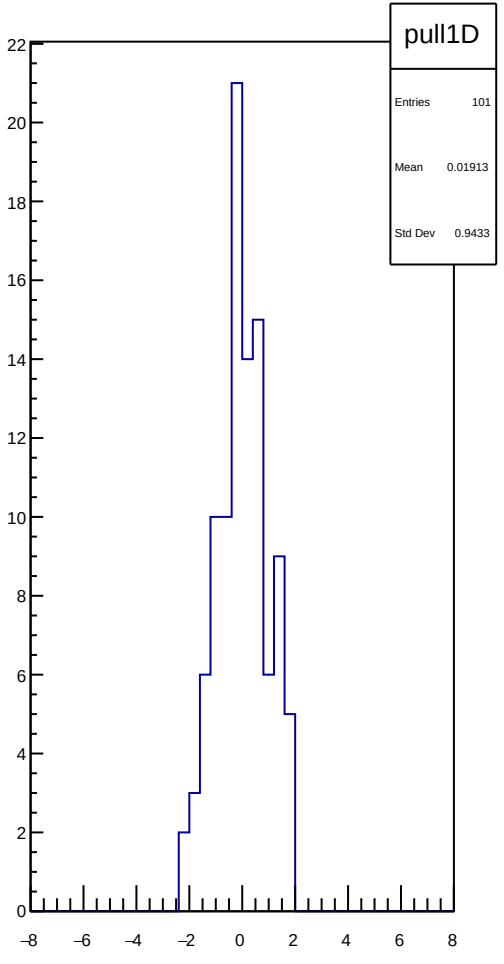

eigen_cor_asym_sam3_rms vs run
χ² / ndf 3.78e+04 / 100
p0 260.1 ± 0.1892
450
400
350
300
250
200

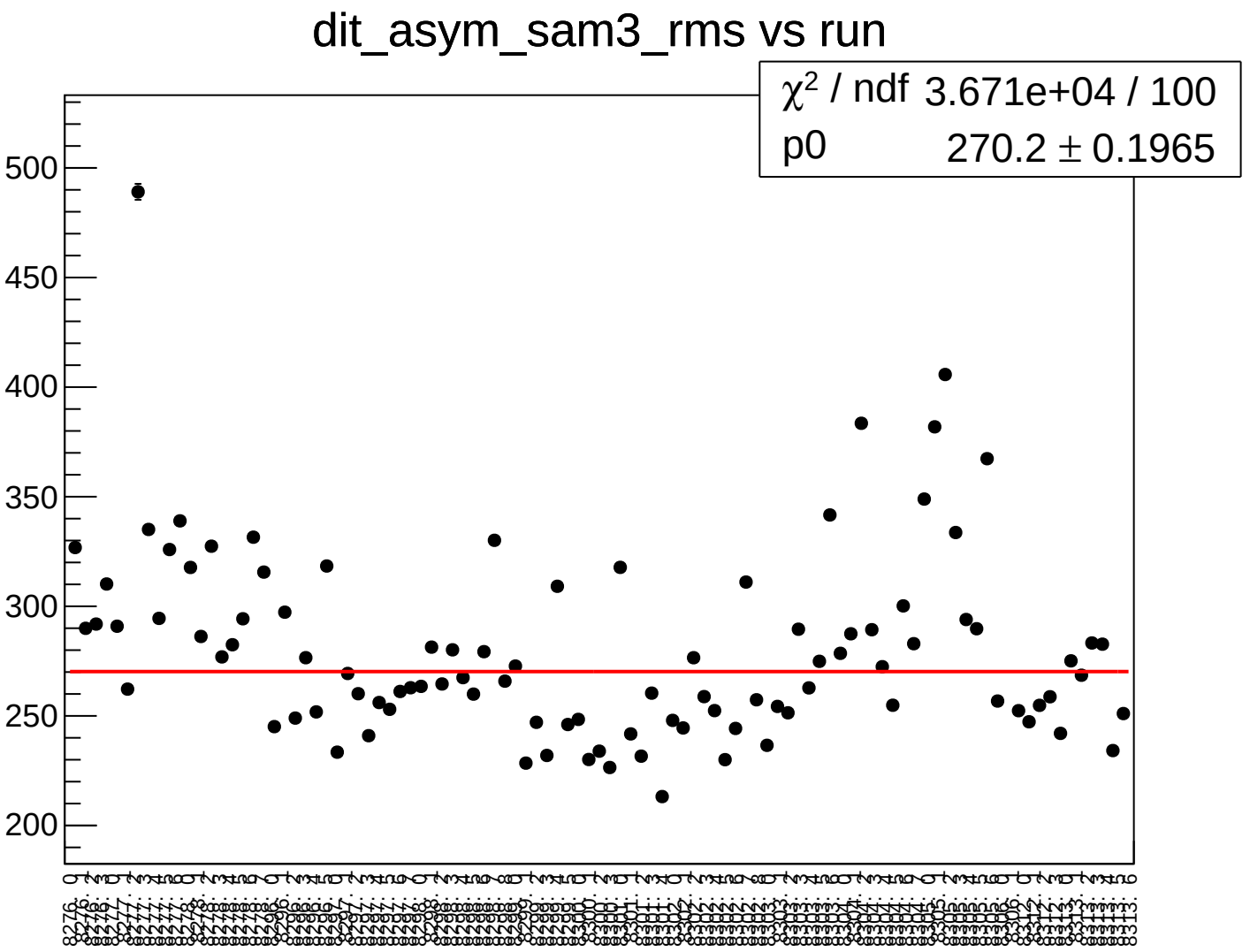

asym_sam3_eigen_cor_correction_mean vs run
χ² / ndf 98.84 / 100
p0 −1780 ± 2852
×10³
150
100
50
0
−50
−100
pull
Entries 101
Mean −3114
Std Dev 0
3
2
1
0
−1
−2

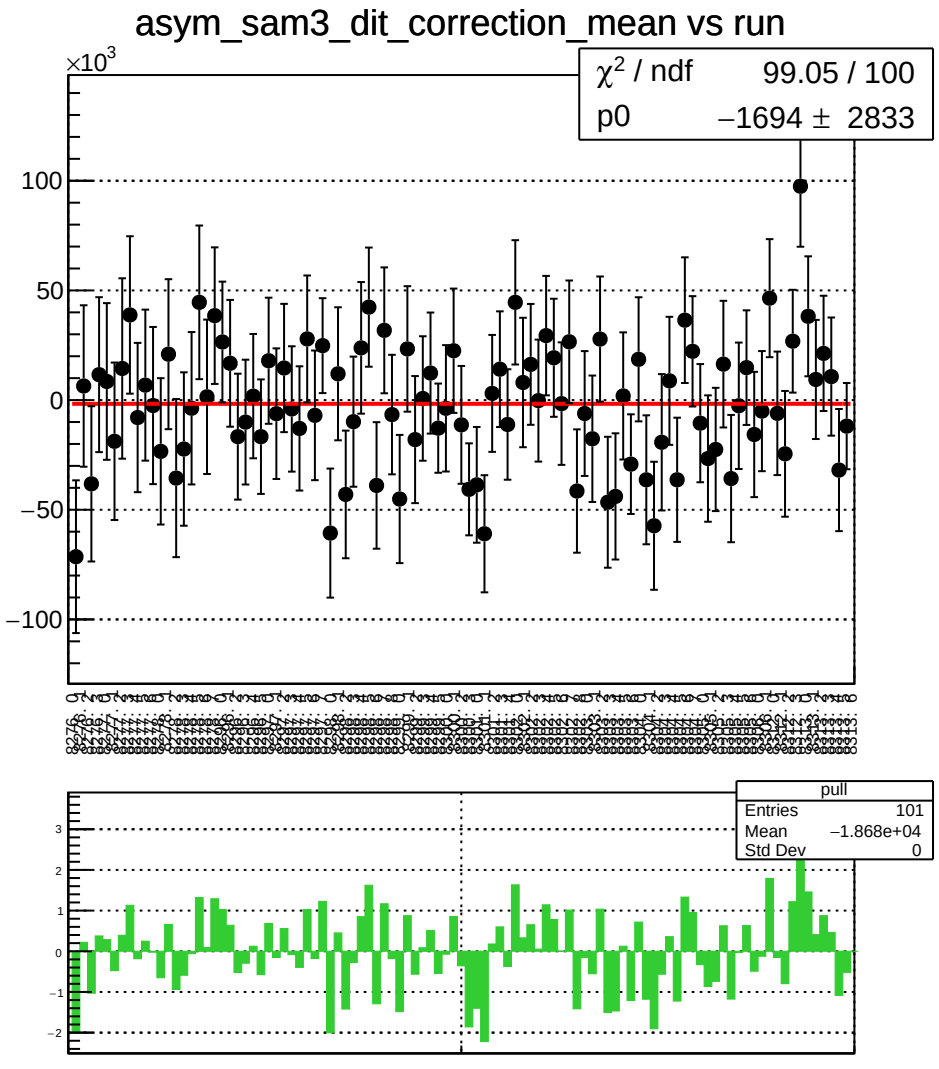

pull1D
Entries 101
Mean −0.0004421
Std Dev 0.9892
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

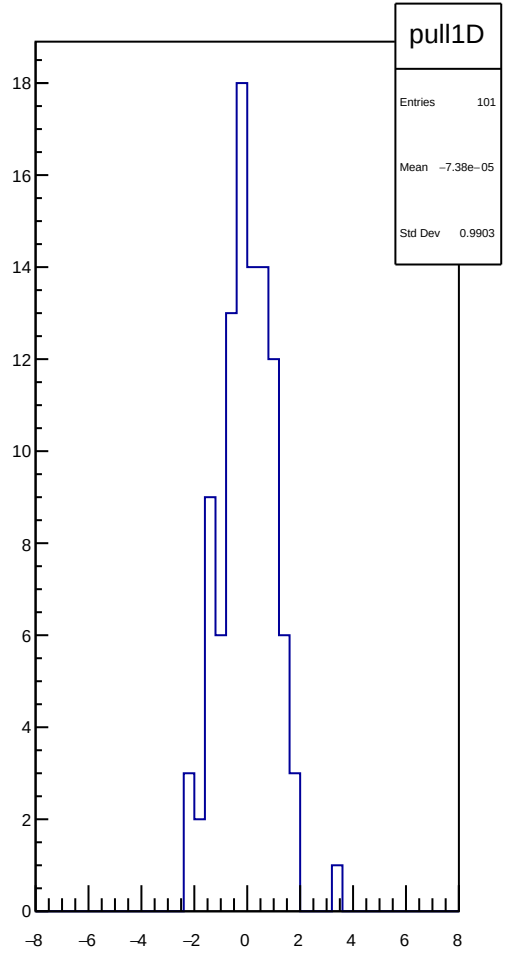

asym_sam3_eigen_cor_correction_rms vs run
χ² / ndf 1.555e+04 / 100
p0 2789 ± 2.017
3800
3600
3400
3200
3000
2800
2600
2400
2200

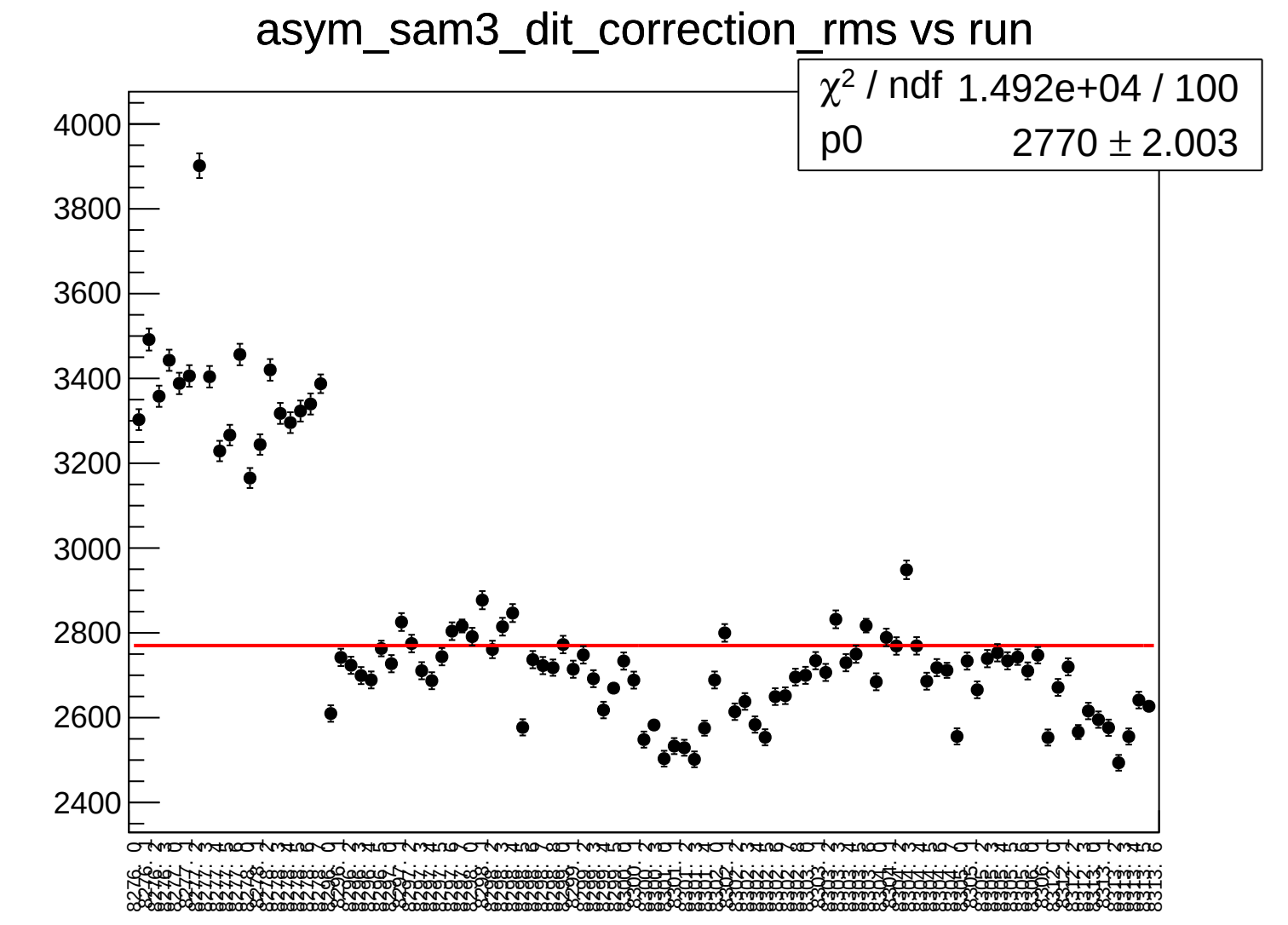

dit_asym_sam3_mean vs run
χ² / ndf 89.91 / 100
p0 −163.7 ± 277.9
10000
5000
0
−5000
−10000
pull
Entries 101
Mean −42.51
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

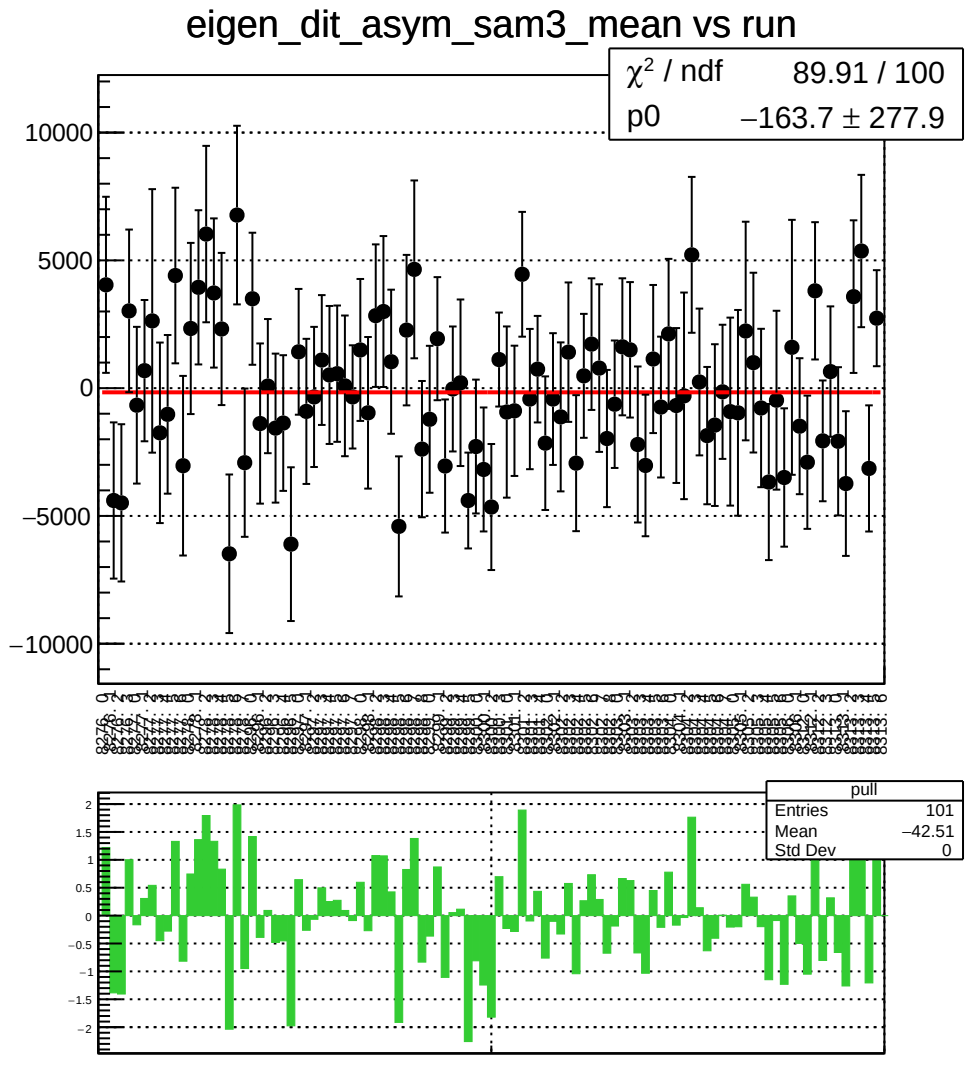

pull1D
Entries 101
Mean 0.01913
Std Dev 0.9433
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

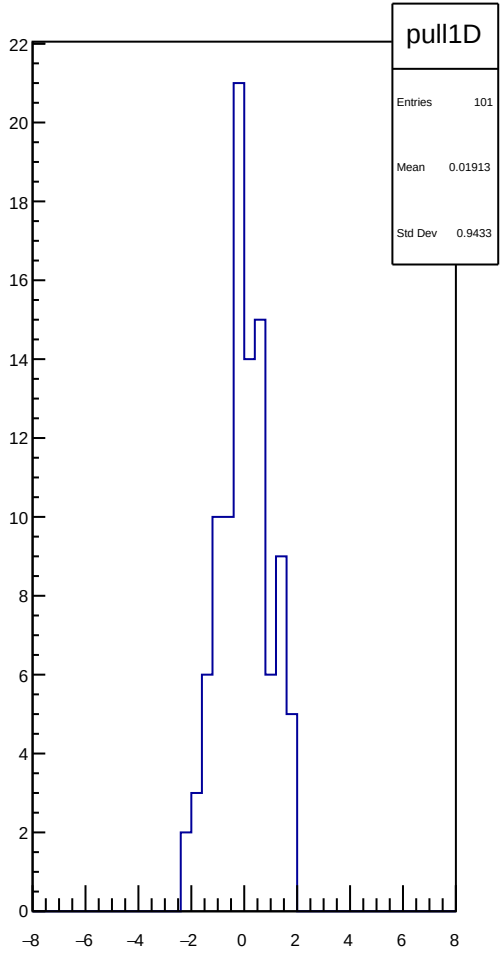

dit_asym_sam3_rms vs run
χ² / ndf 3.671e+04 / 100
p0 270.2 ± 0.1965
500
450
400
350
300
250
200

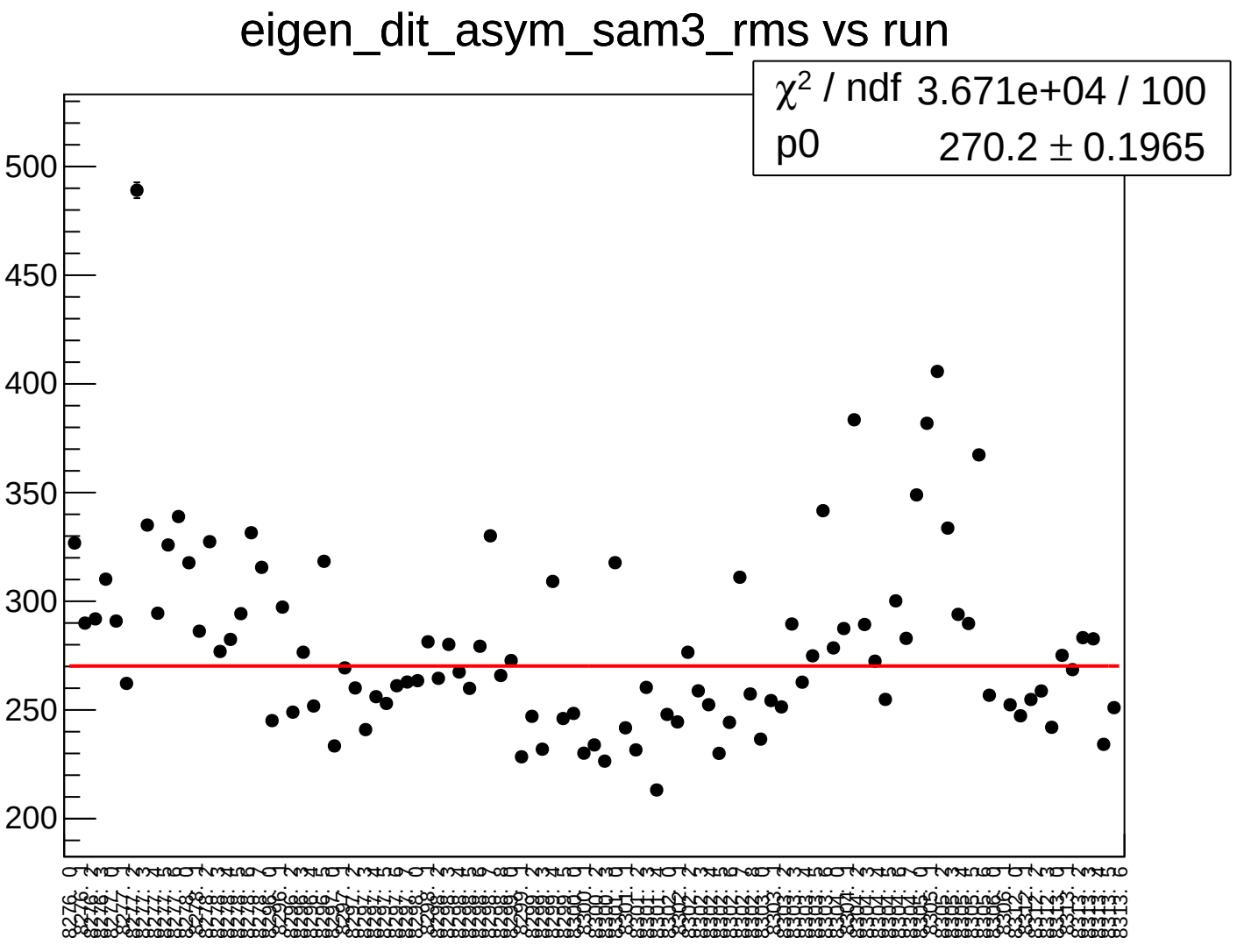

asym_sam3_dit_correction_mean vs run
χ² / ndf 99.05 / 100
p0 −1694 ± 2833
×10³
100
50
0
−50
−100
pull
Entries 101
Mean −1.868e+04
Std Dev 0
3
2
1
0
−1
−2

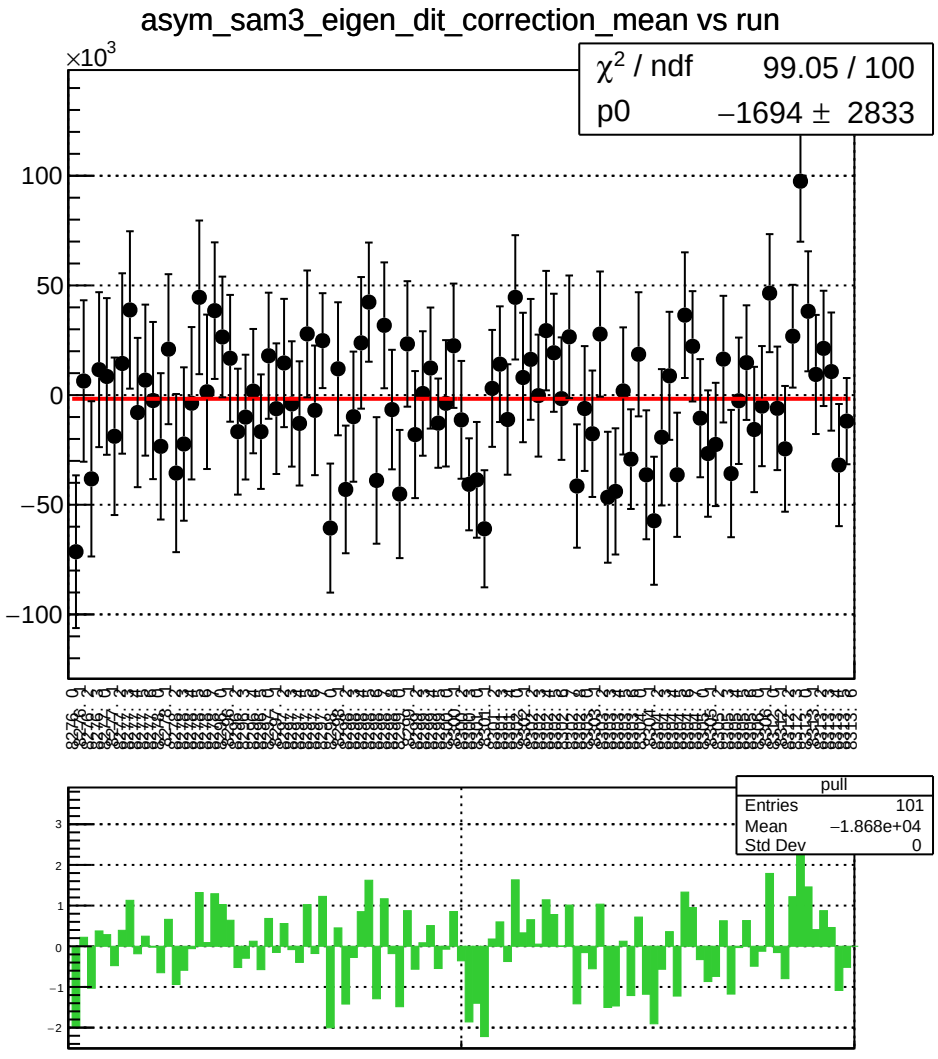

pull1D
Entries 101
Mean −7.38e−05
Std Dev 0.9903
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

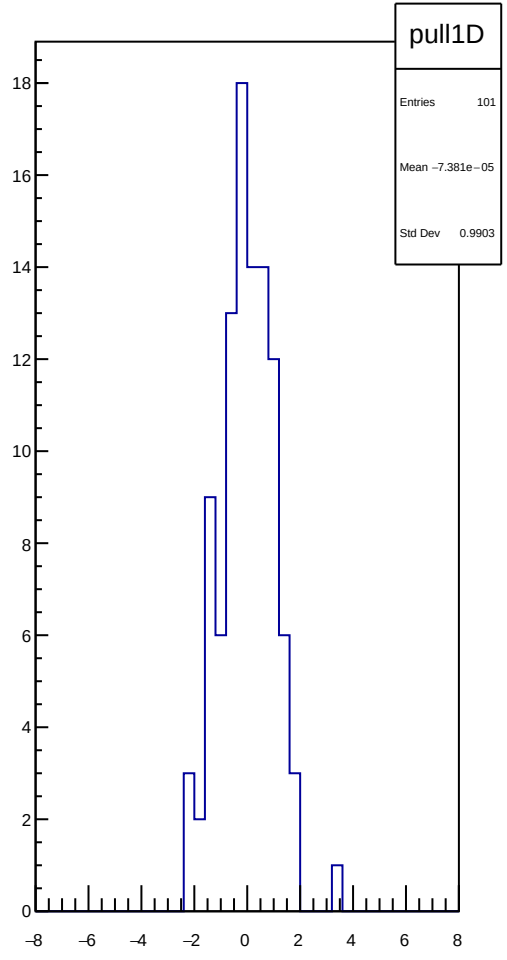

asym_sam3_dit_correction_rms vs run
χ² / ndf 1.492e+04 / 100
p0 2770 ± 2.003
4000
3800
3600
3400
3200
3000
2800
2600
2400

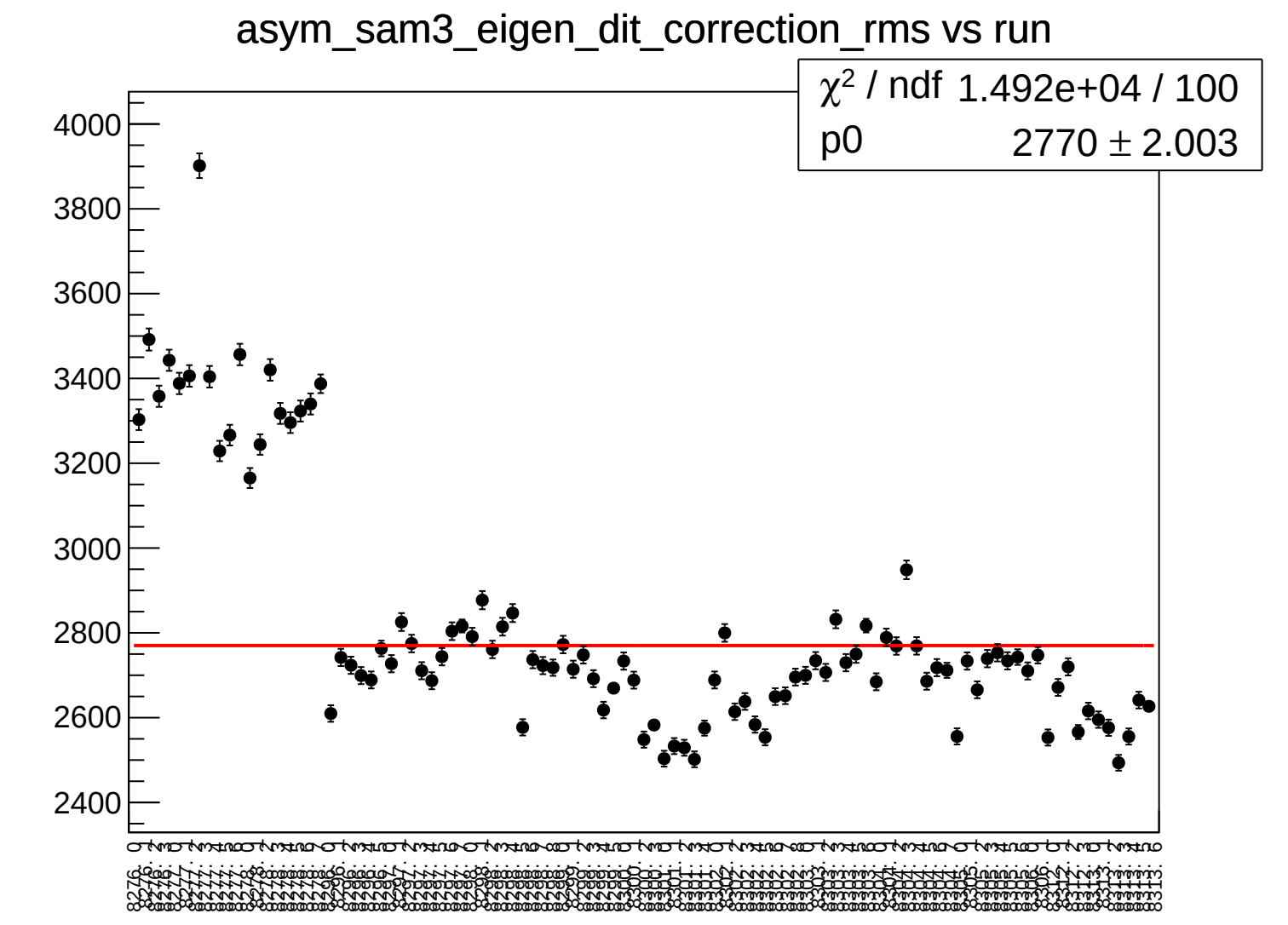

eigen_dit_asym_sam3_mean vs run
χ² / ndf 89.91 / 100
p0 −163.7 ± 277.9
10000
5000
0
−5000
−10000
pull
Entries 101
Mean −42.51
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

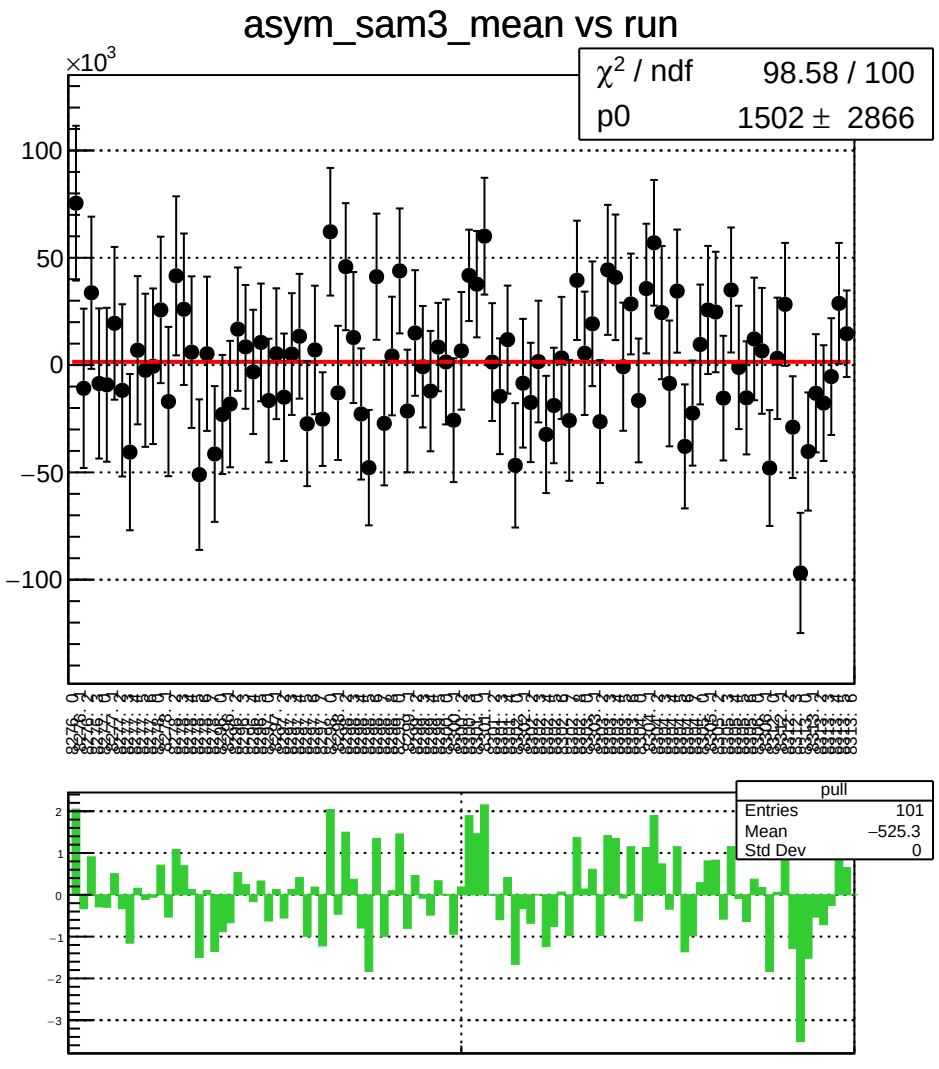

pull1D
Entries 101
Mean 0.01913
Std Dev 0.9433
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

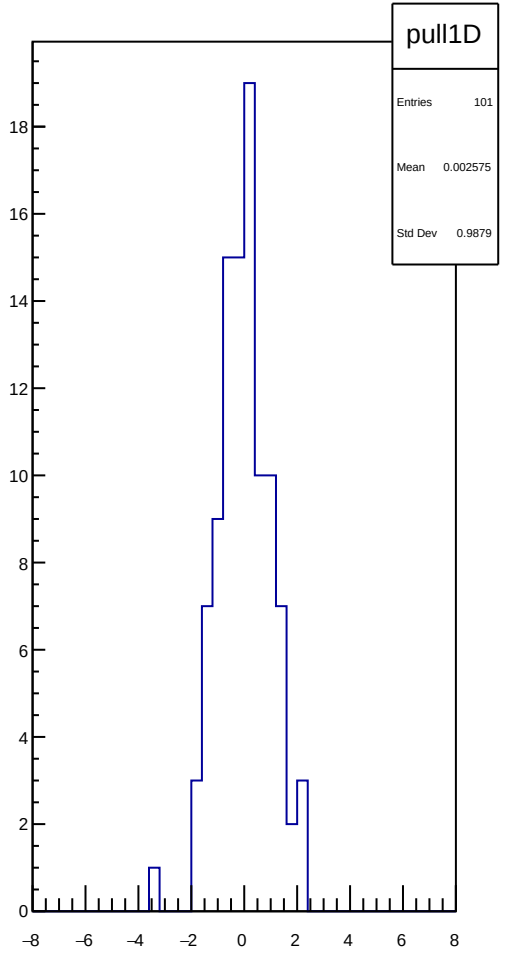

eigen_dit_asym_sam3_rms vs run
χ² / ndf 3.671e+04 / 100
p0 270.2 ± 0.1965
500
450
400
350
300
250
200

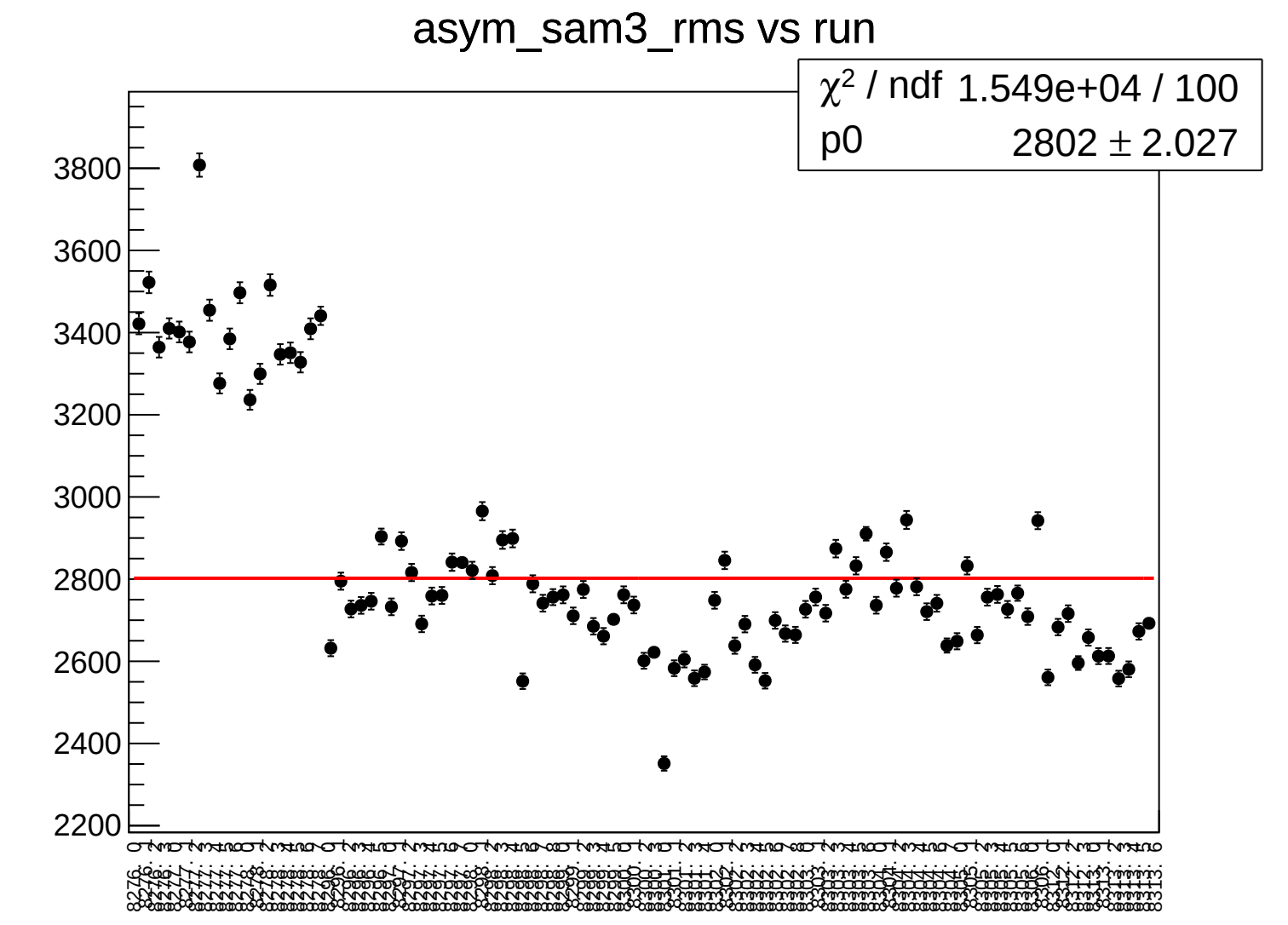

asym_sam3_eigen_dit_correction_mean vs run
χ² / ndf 99.05 / 100
p0 −1694 ± 2833
×10³
100
50
0
−50
−100
pull
Entries 101
Mean −1.868e+04
Std Dev 0
3
2
1
0
−1
−2

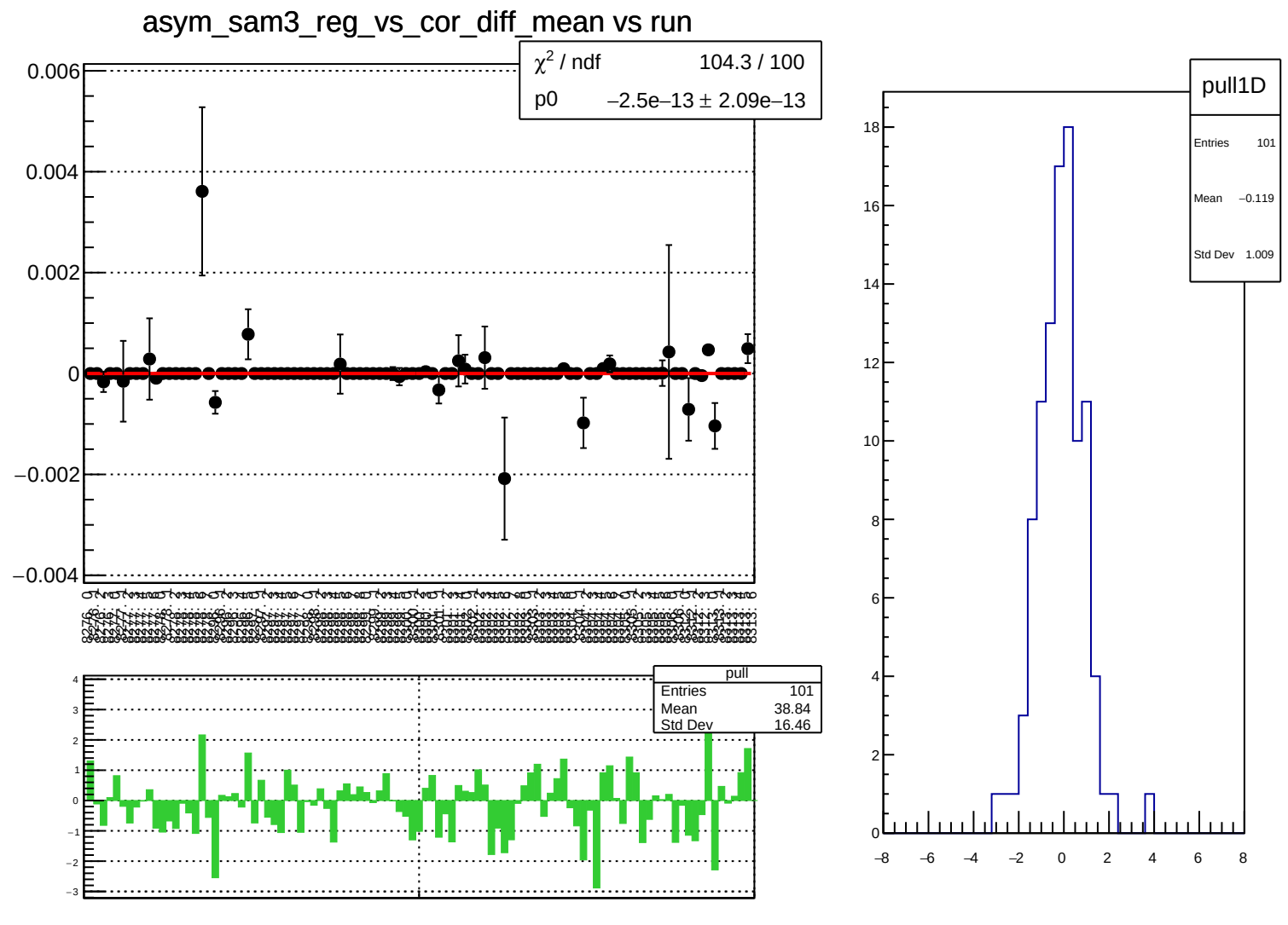

pull1D
Entries 101
Mean −7.381e−05
Std Dev 0.9903
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

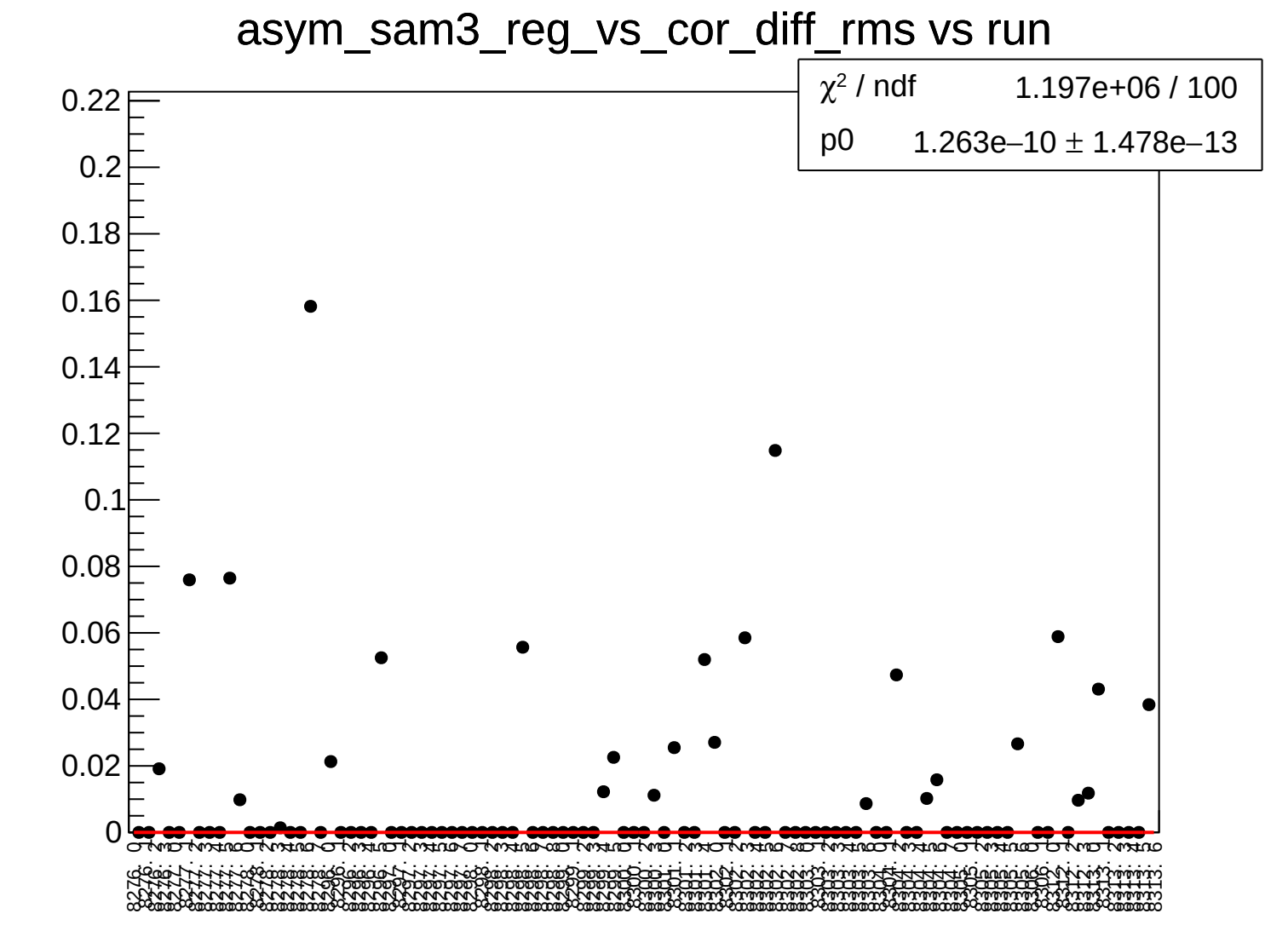

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 1.492e+04 / 100
p0 2770 ± 2.003
4000
3800
3600
3400
3200
3000
2800
2600
2400

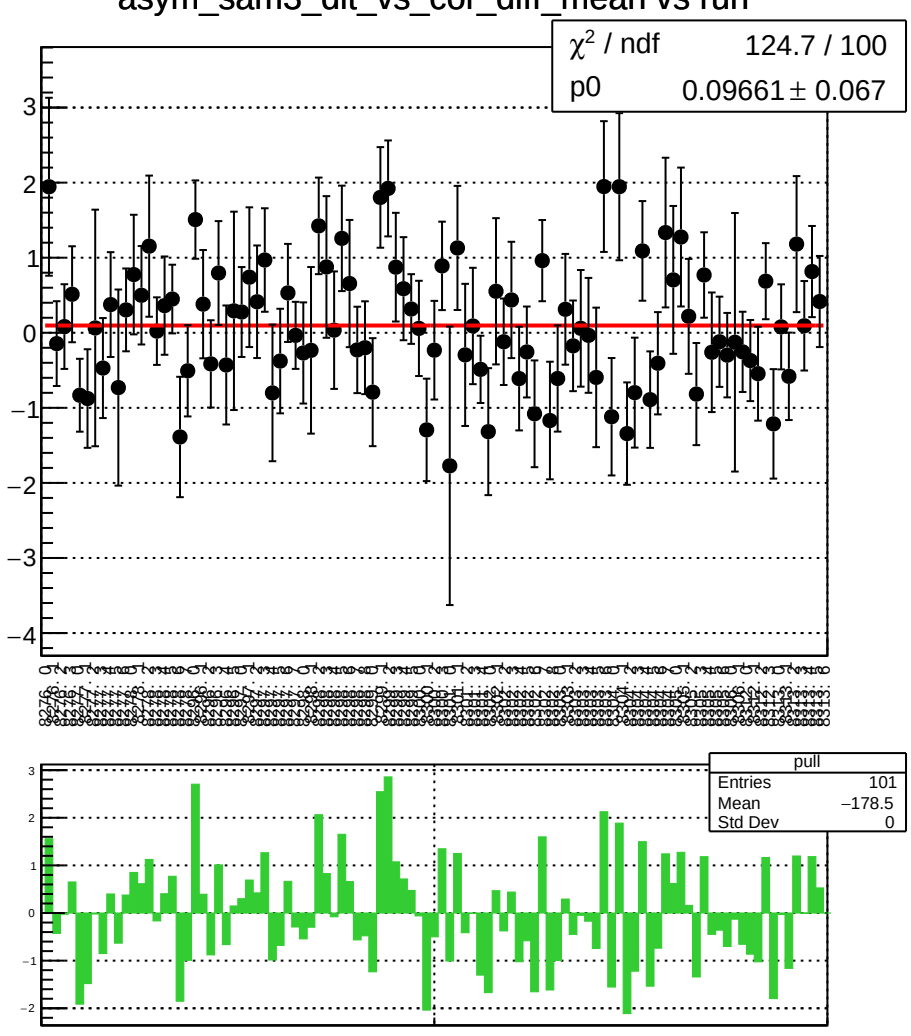

asym_sam3_mean vs run
×10^3
χ^2 / ndf 98.58 / 100
p0 1502 ± 2866
100
50
0
−50
−100
pull
Entries 101
Mean −525.3
Std Dev 0
2
1
0
−1
−2
−3

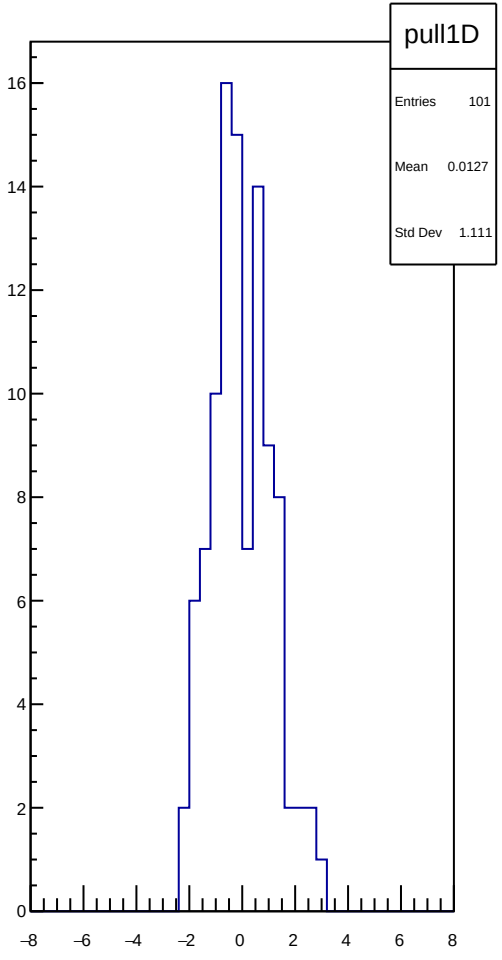

pull1D
Entries 101
Mean 0.002575
Std Dev 0.9879
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

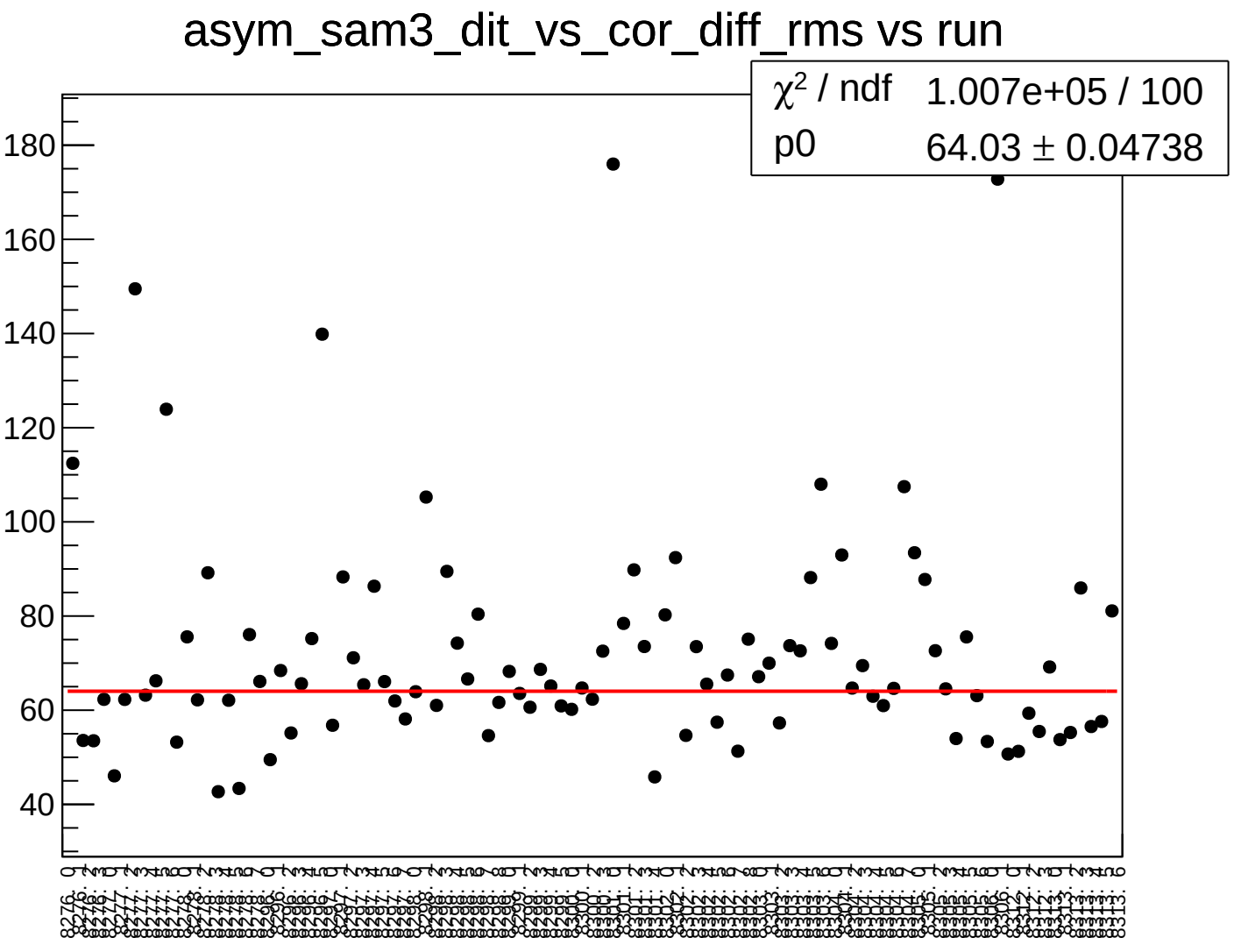

asym_sam3_rms vs run
χ² / ndf 1.549e+04 / 100
p0 2802 ± 2.027
3800
3600
3400
3200
3000
2800
2600
2400
2200

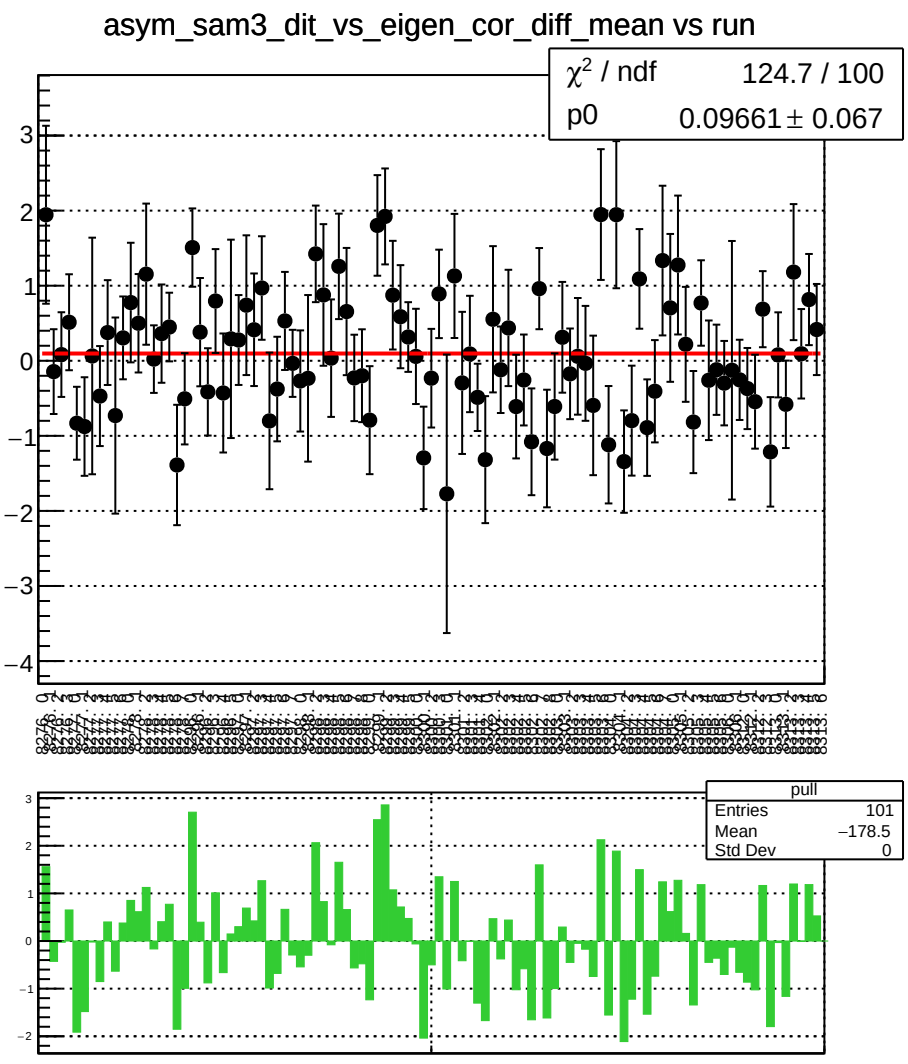

asym_sam3_reg_vs_cor_diff_mean vs run
χ² / ndf 104.3 / 100
p0 −2.5e−13 ± 2.09e−13
0.006
0.004
0.002
0
−0.002
−0.004
pull
Entries 101
Mean 38.84
Std Dev 16.46
pull1D
Entries 101
Mean −0.119
Std Dev 1.009

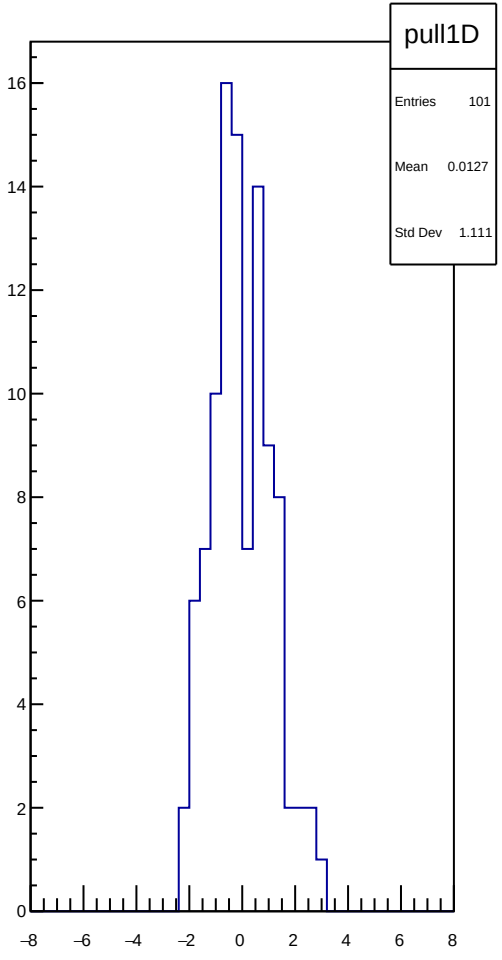

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 1.197e+06 / 100
p0 1.263e−10 ± 1.478e−13
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

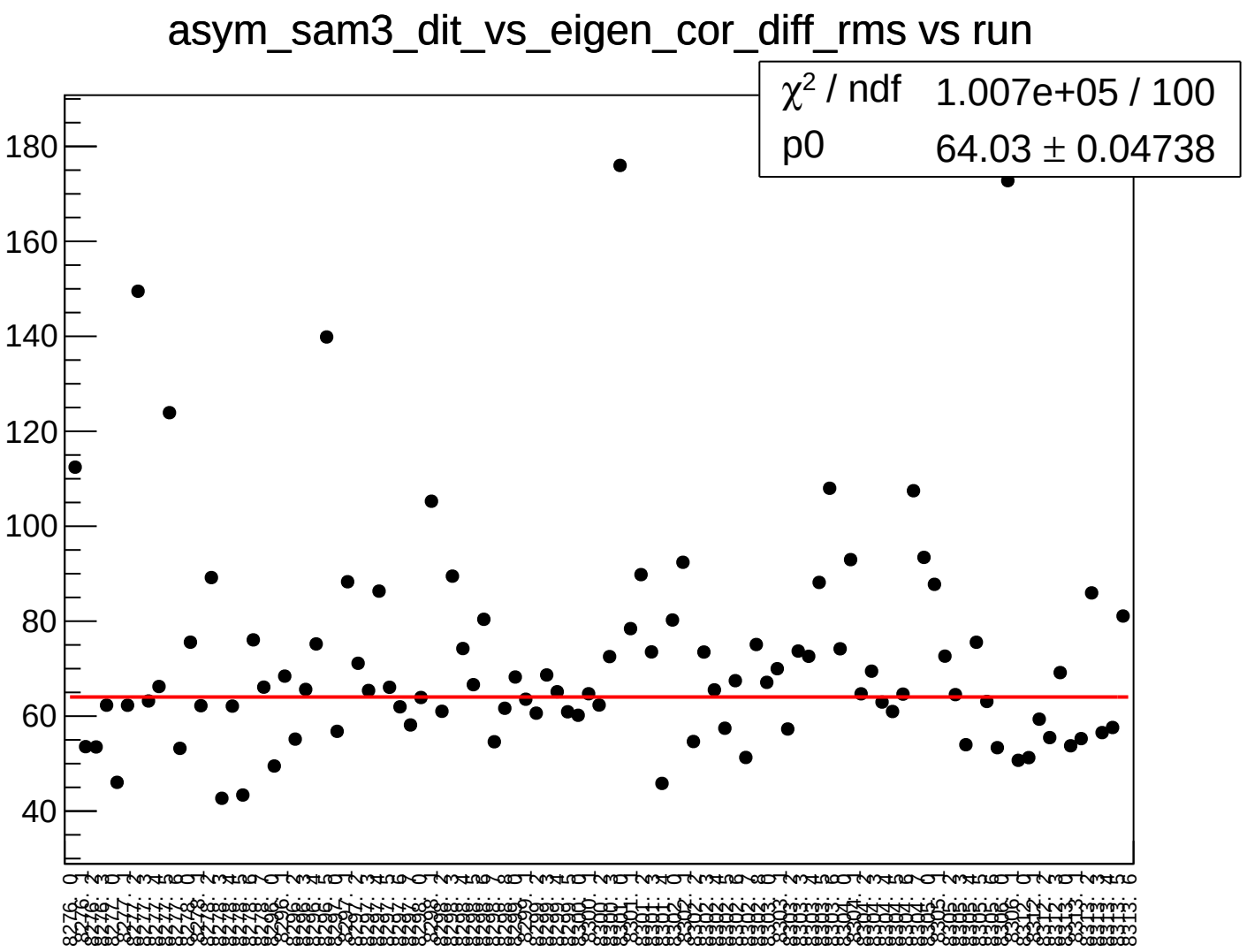

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 124.7 / 100
p0 0.09661 ± 0.067
pull
Entries 101
Mean −178.5
Std Dev 0

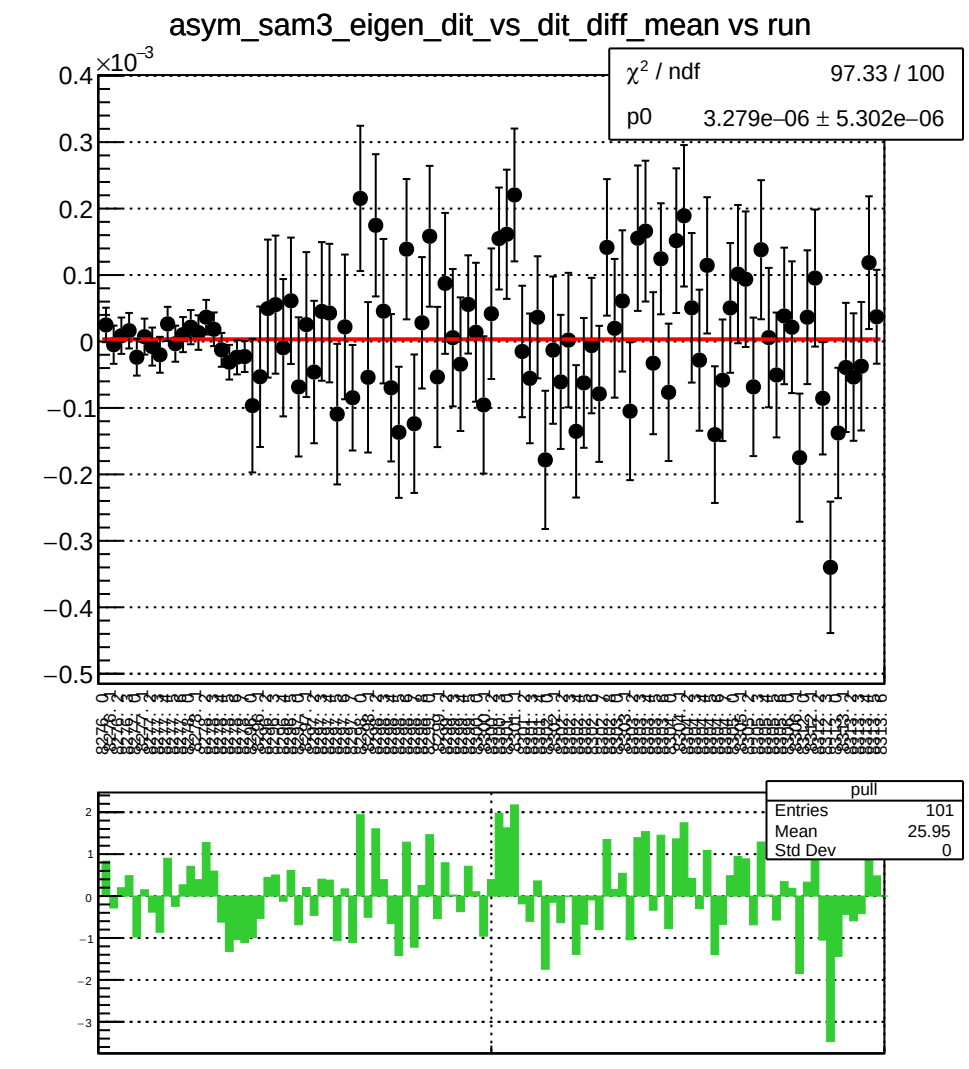

pull1D
Entries 101
Mean 0.0127
Std Dev 1.111

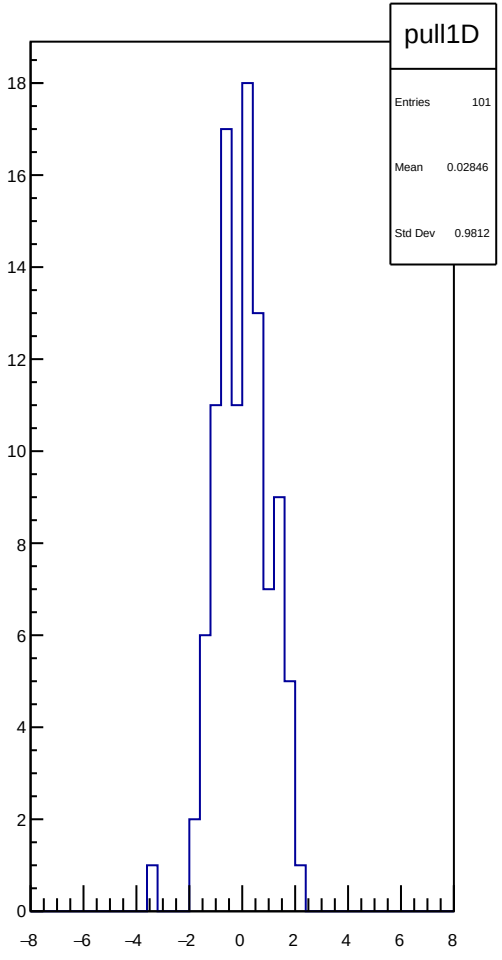

asym_sam3_dit_vs_cor_diff_rms vs run
χ² / ndf 1.007e+05 / 100
p0 64.03 ± 0.04738
180
160
140
120
100
80
60
40

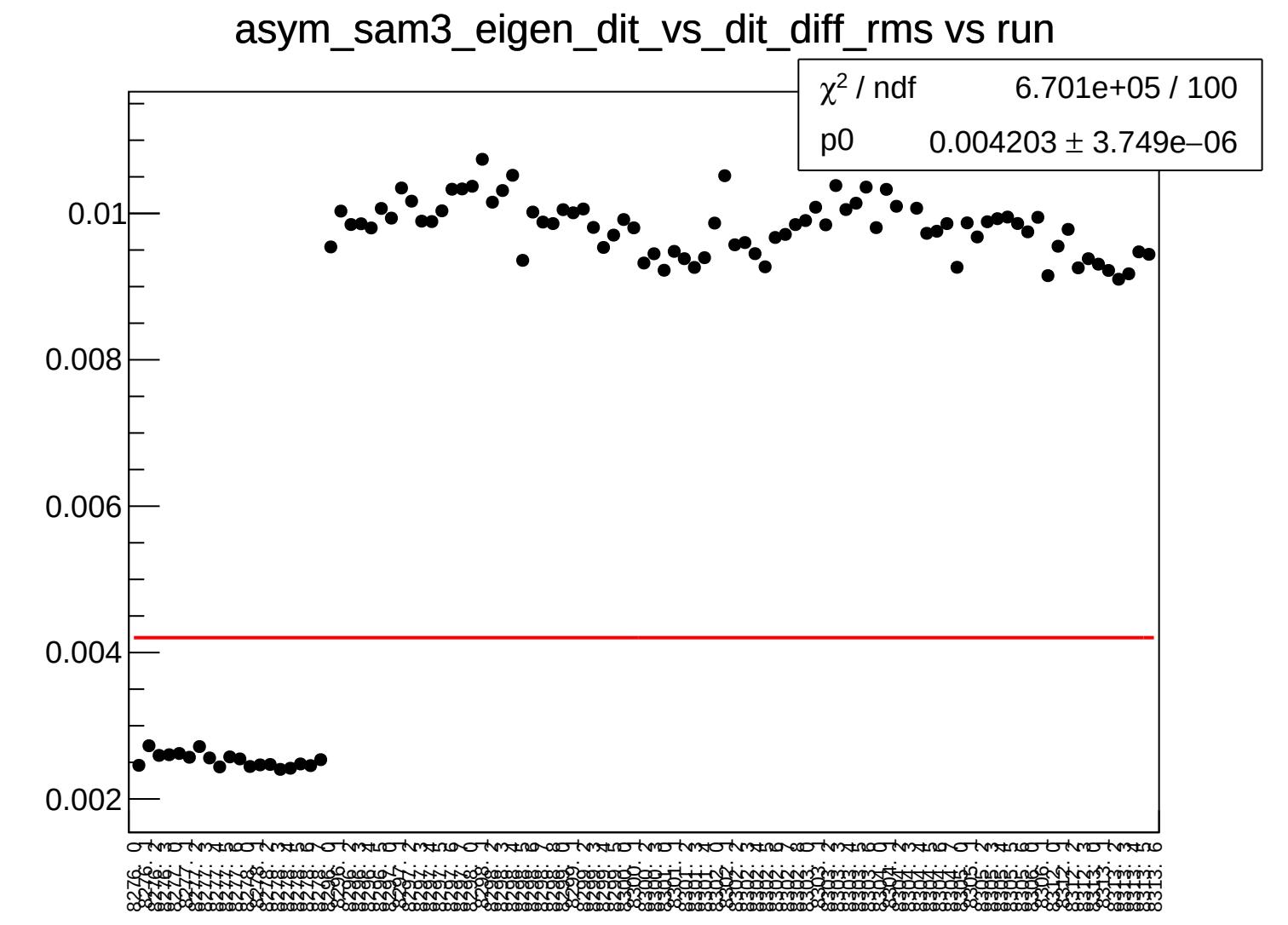

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 124.7 / 100
p0 0.09661 ± 0.067
pull
Entries 101
Mean −178.5
Std Dev 0

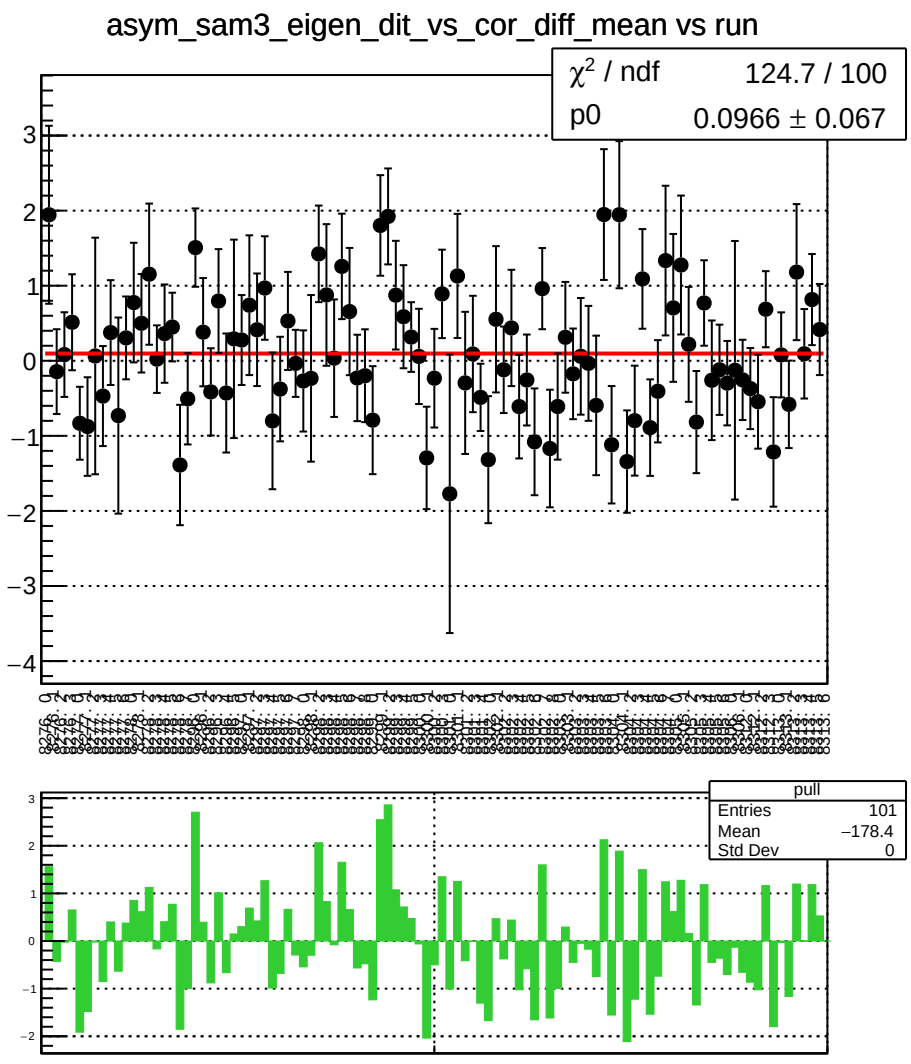

pull1D
Entries 101
Mean 0.0127
Std Dev 1.111

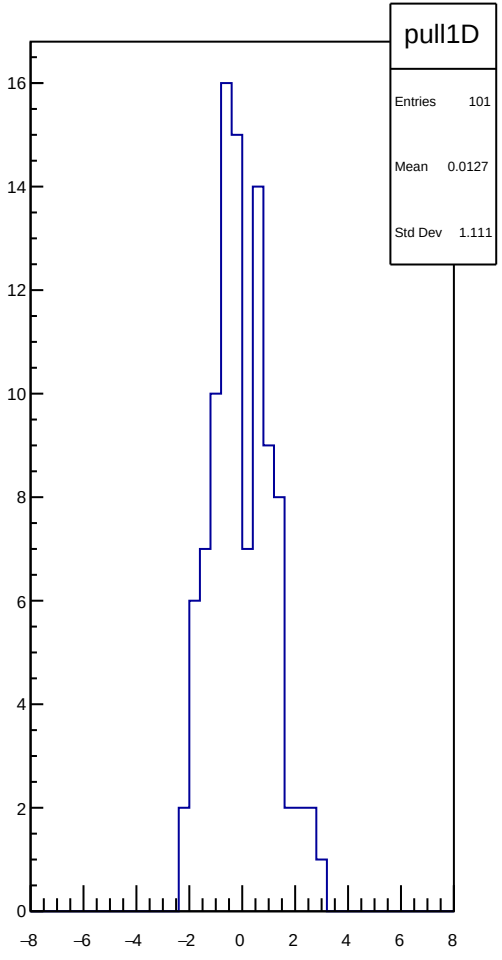

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.007e+05 / 100
p0 64.03 ± 0.04738
180
160
140
120
100
80
60
40

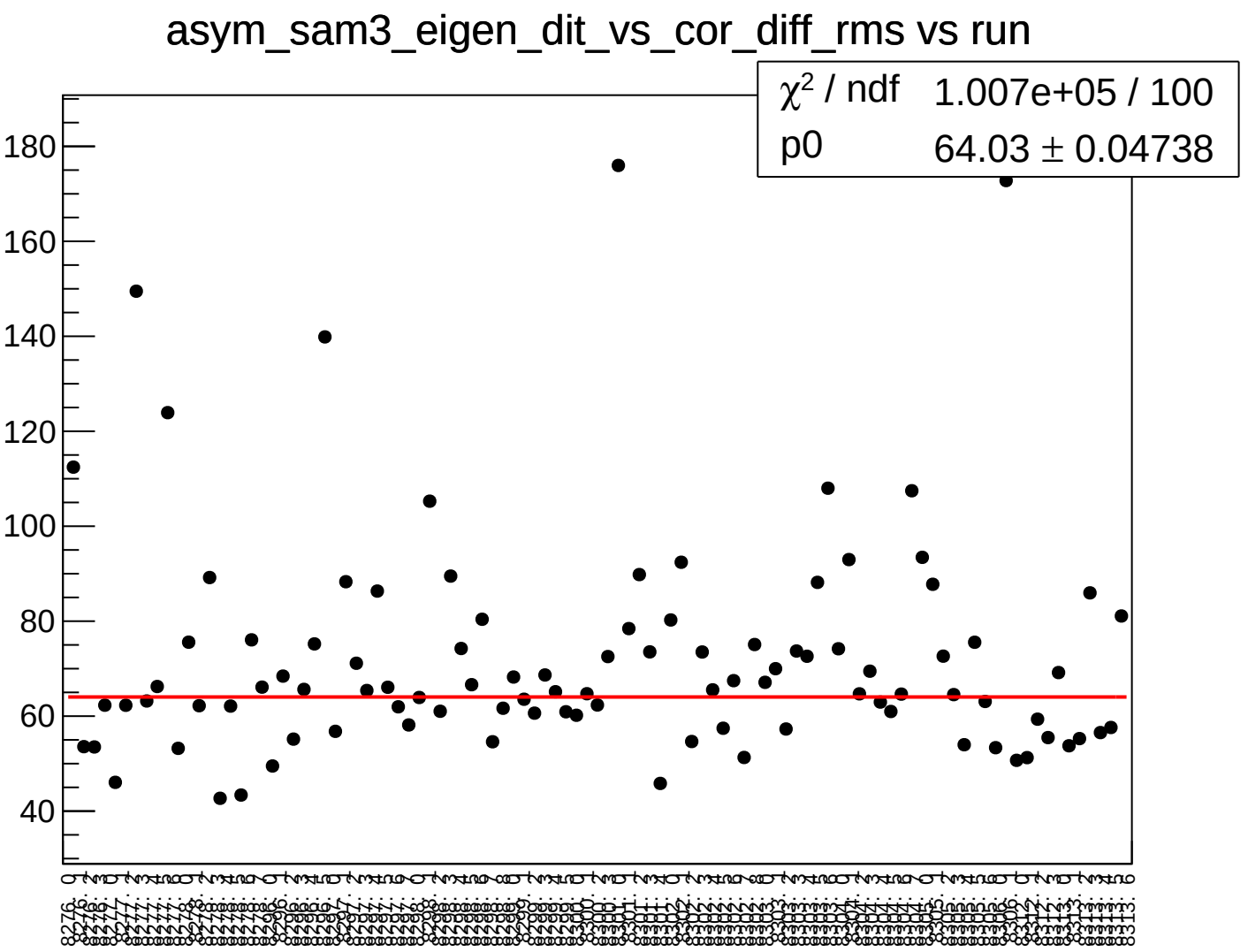

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.33 / 100
p0 3.279e−06 ± 5.302e−06
pull
Entries 101
Mean 25.95
Std Dev 0

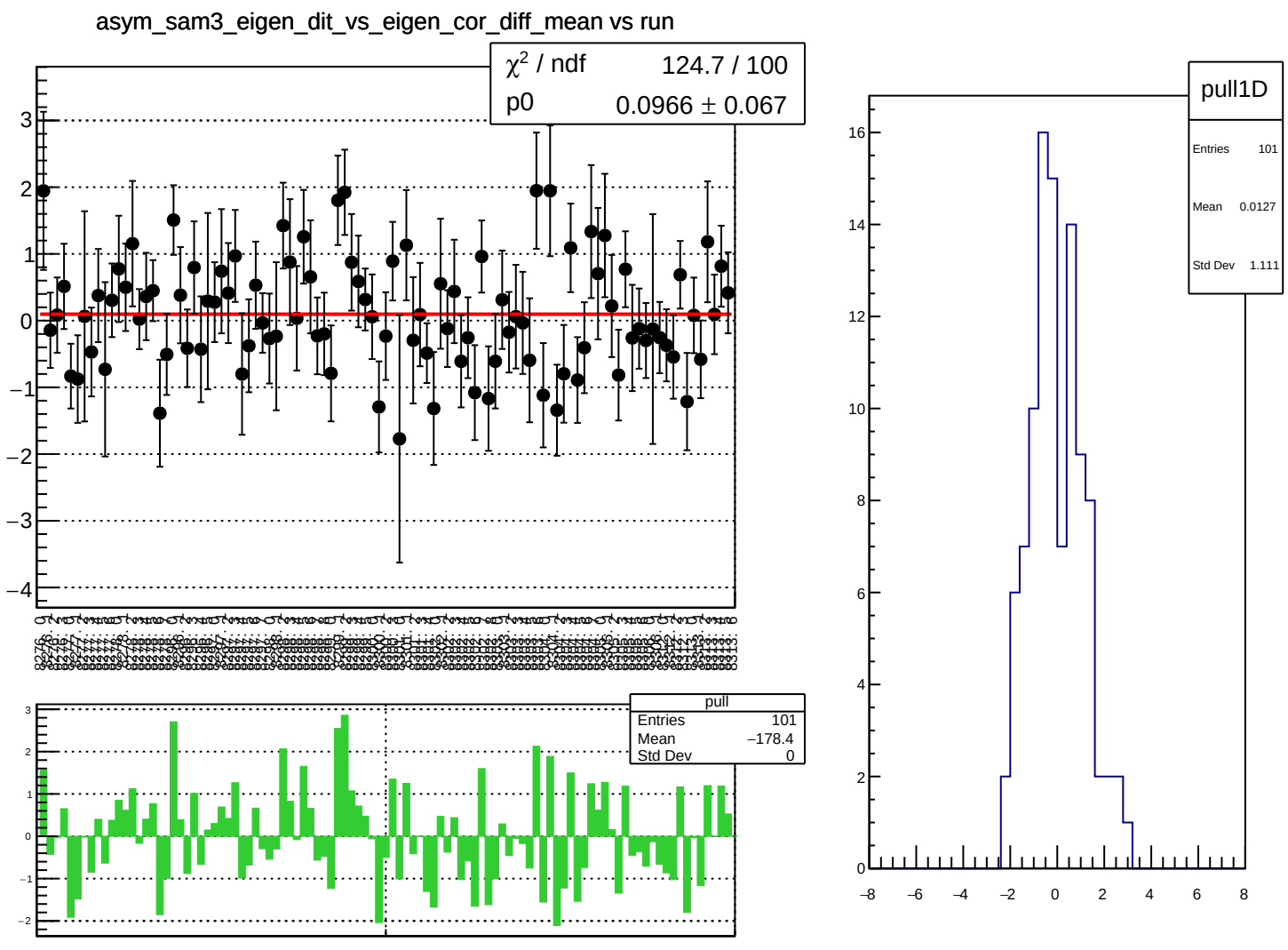

pull1D
Entries 101
Mean 0.02846
Std Dev 0.9812

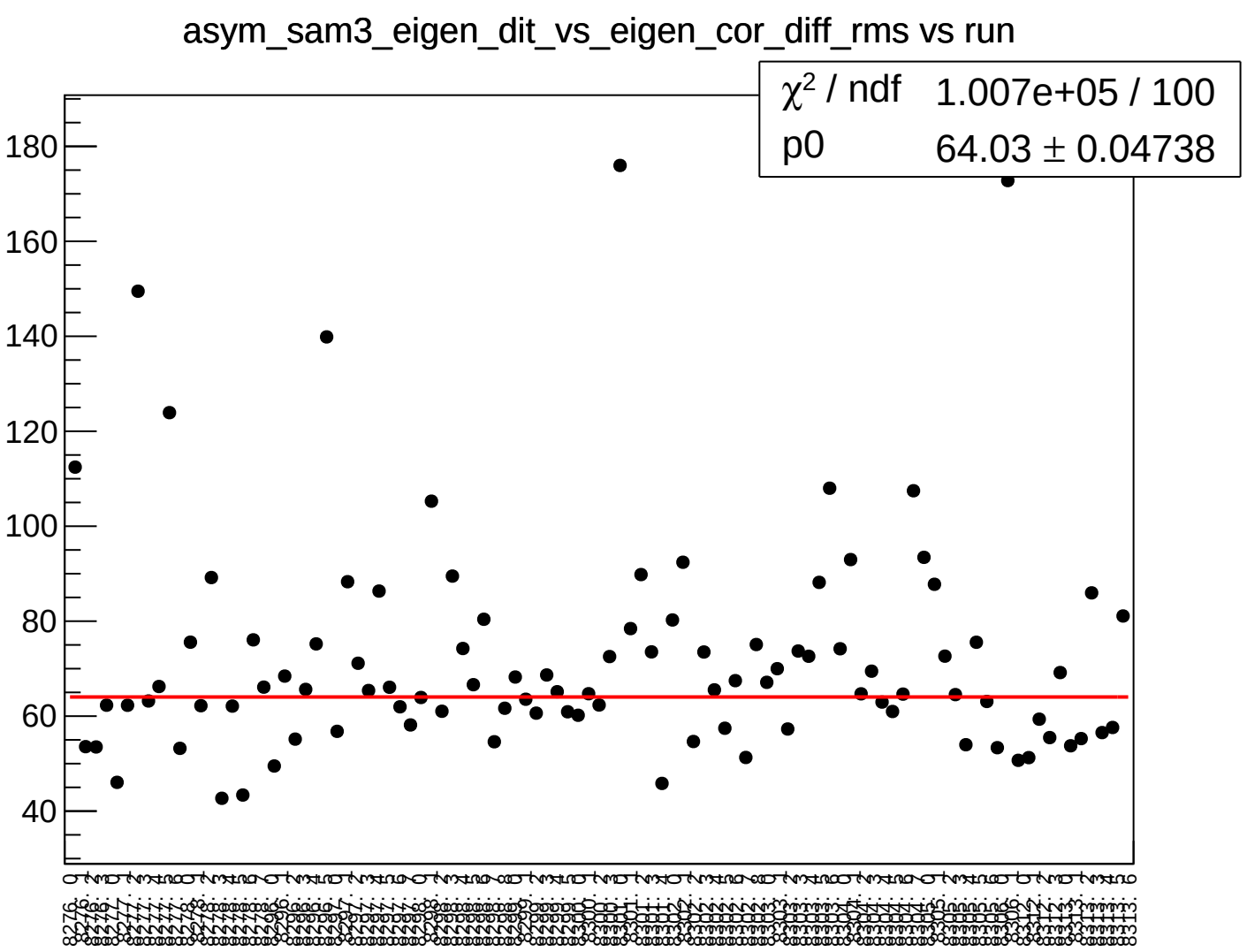

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ^2 / ndf 6.701e+05 / 100
p0 0.004203 ± 3.749e−06
0.01
0.008
0.006
0.004
0.002

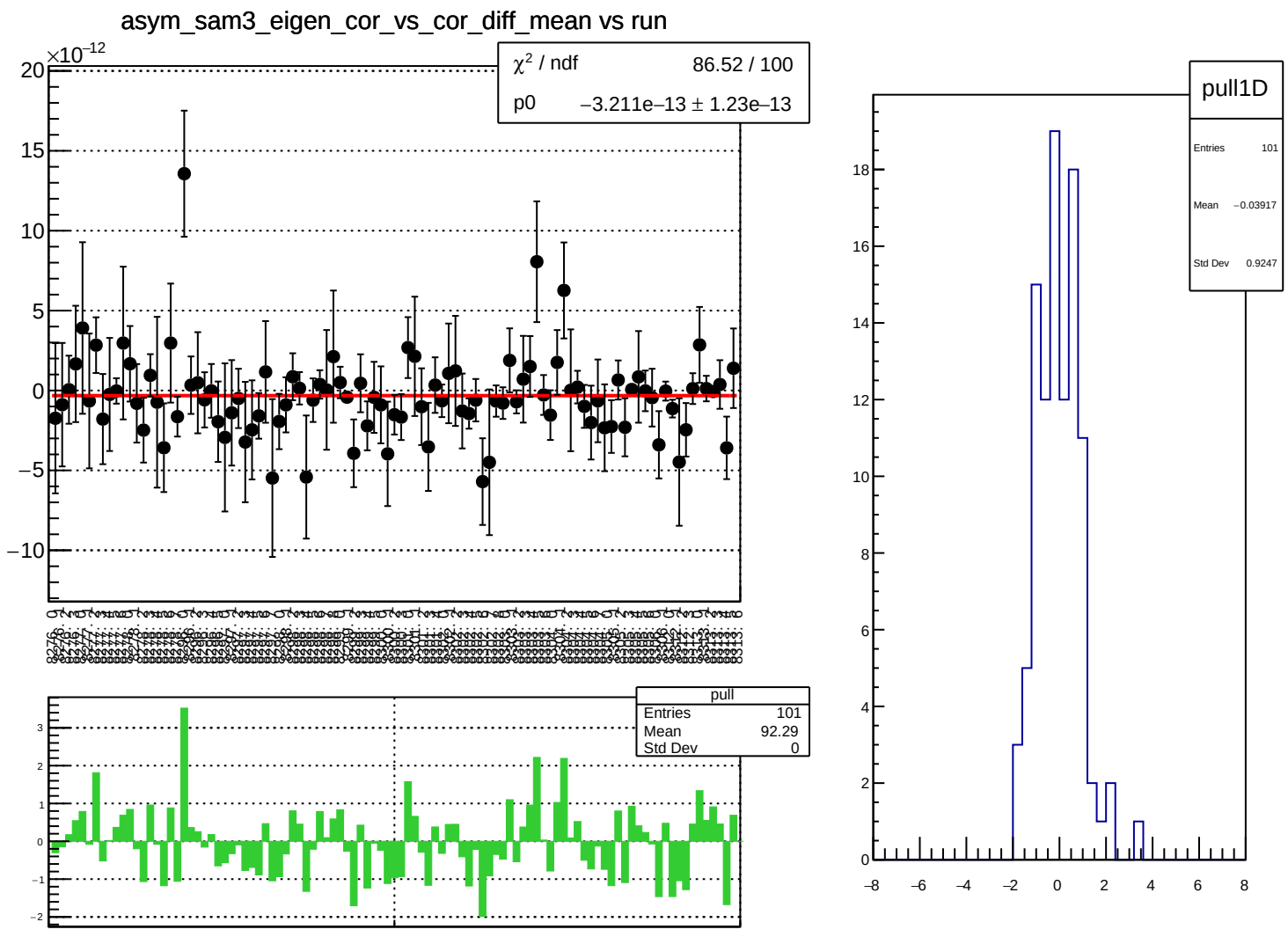

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 124.7 / 100
p0 0.0966 ± 0.067
pull
Entries 101
Mean −178.4
Std Dev 0

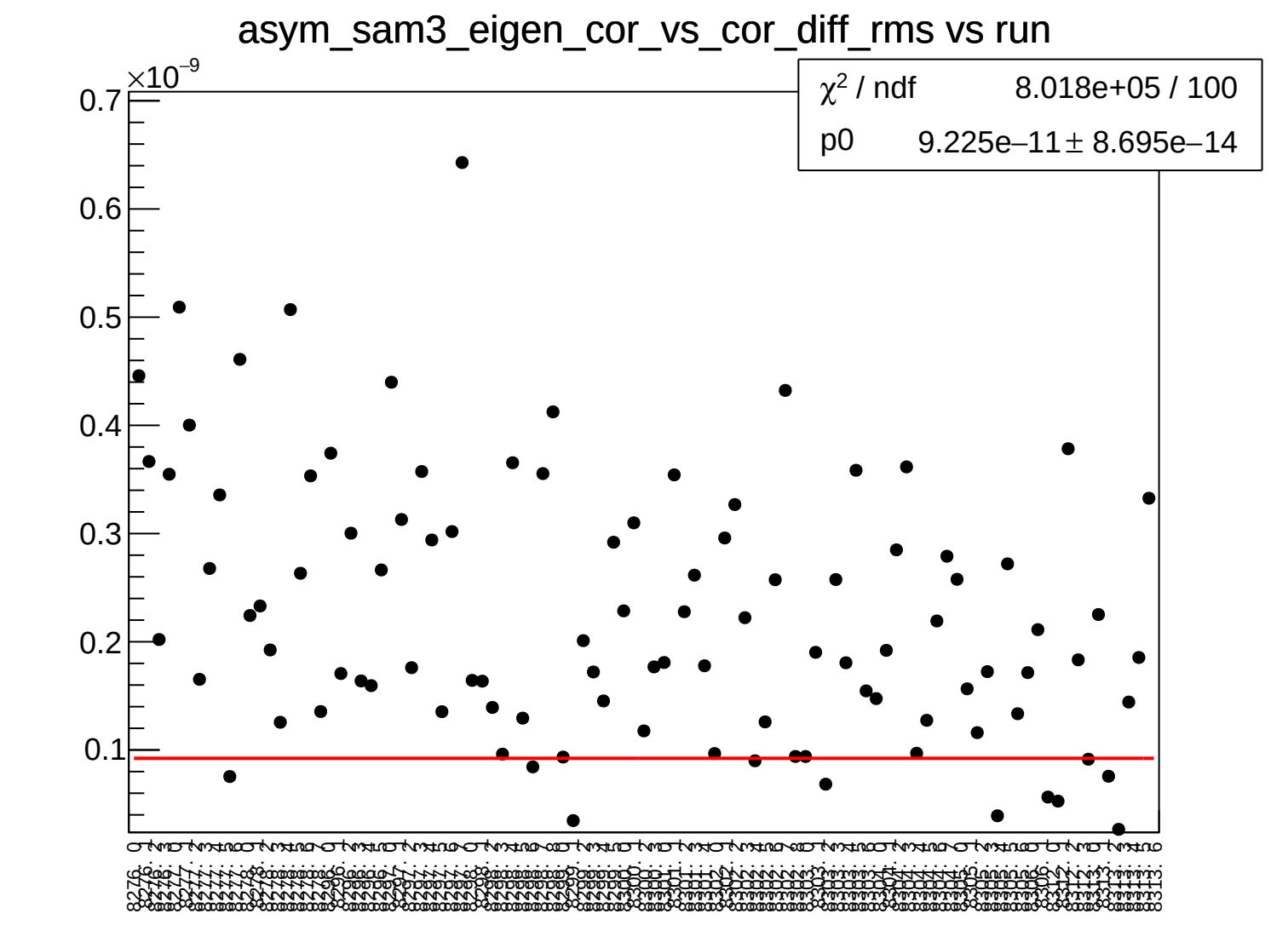

pull1D
Entries 101
Mean 0.0127
Std Dev 1.111

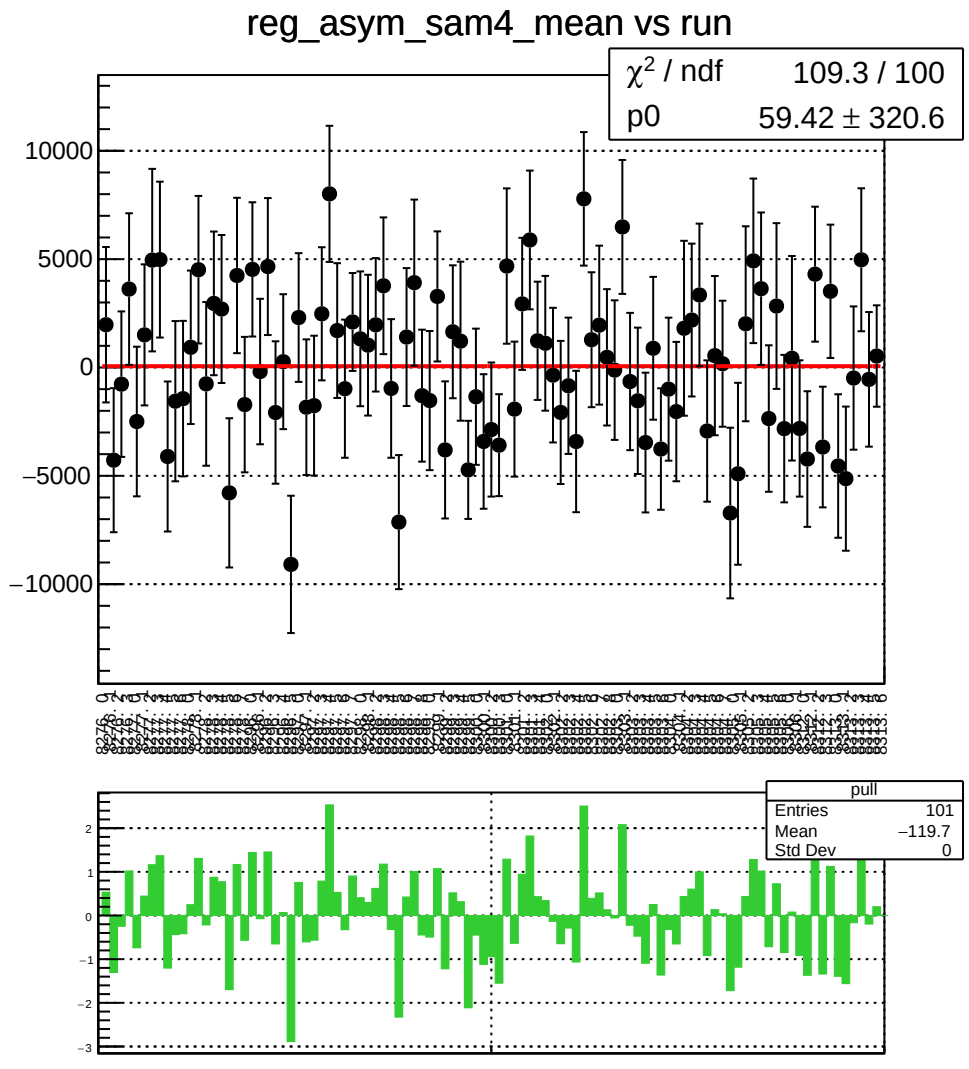

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.007e+05 / 100
p0 64.03 ± 0.04738
180
160
140
120
100
80
60
40

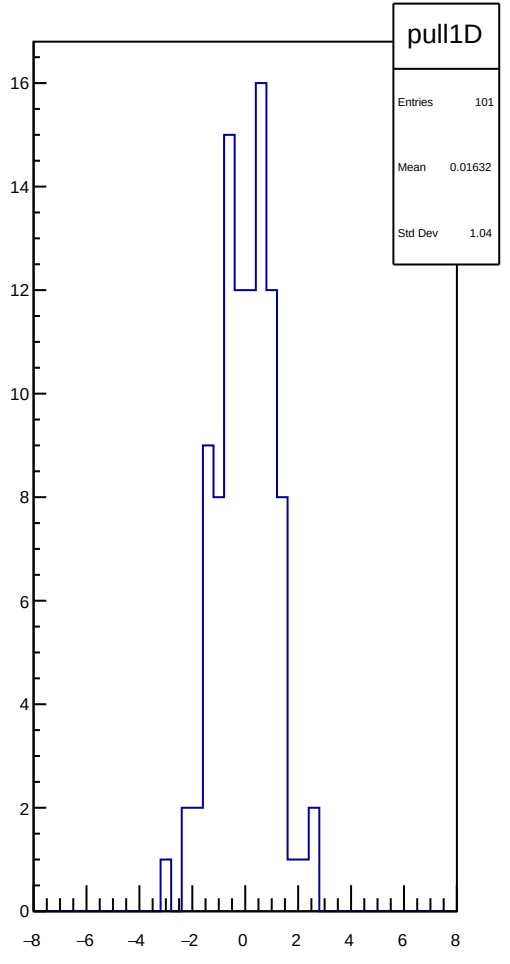

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 124.7 / 100
p0 0.0966 ± 0.067
pull
Entries 101
Mean −178.4
Std Dev 0
pull1D
Entries 101
Mean 0.0127
Std Dev 1.111

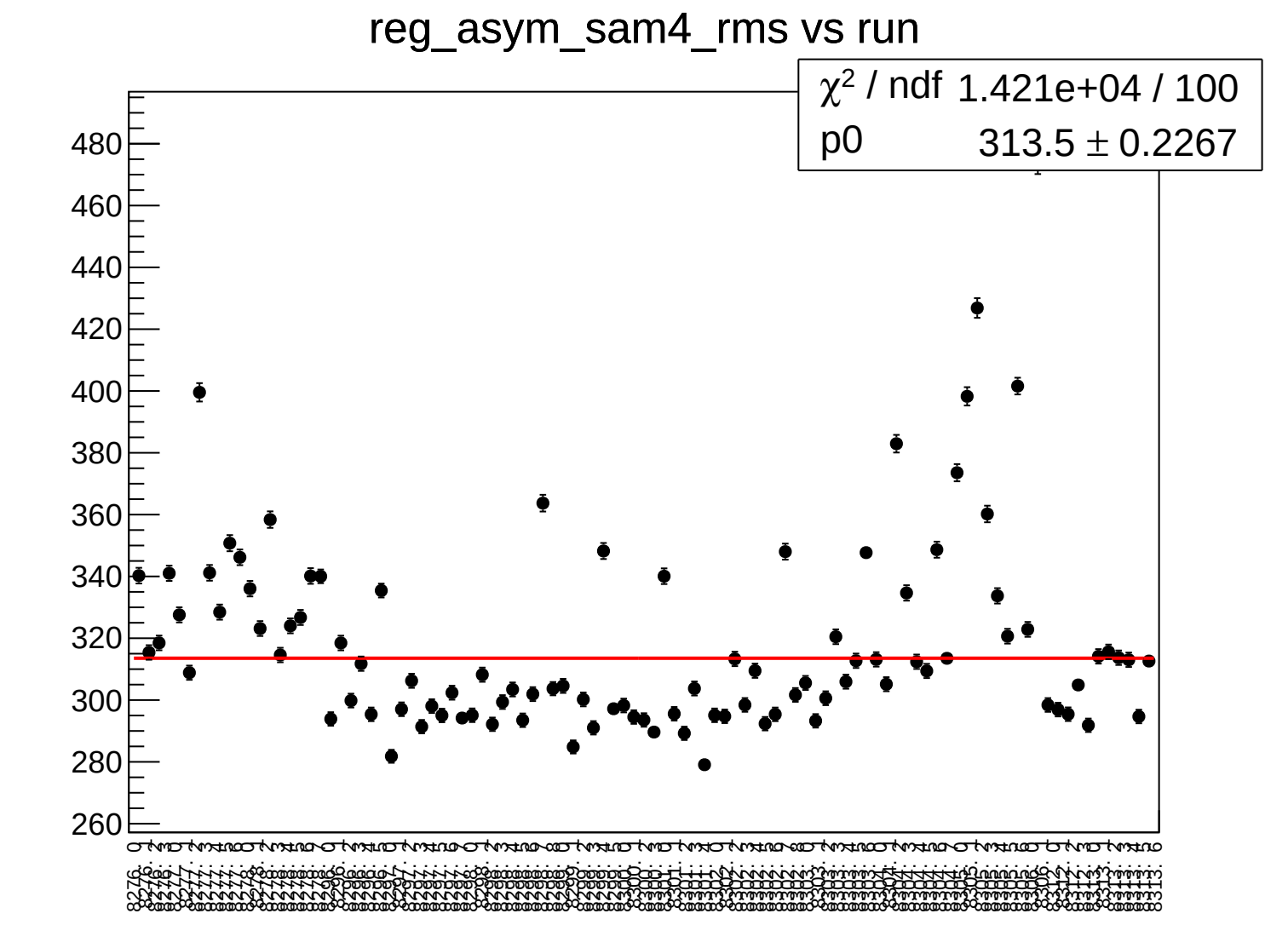

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.007e+05 / 100
p0 64.03 ± 0.04738
180
160
140
120
100
80
60
40

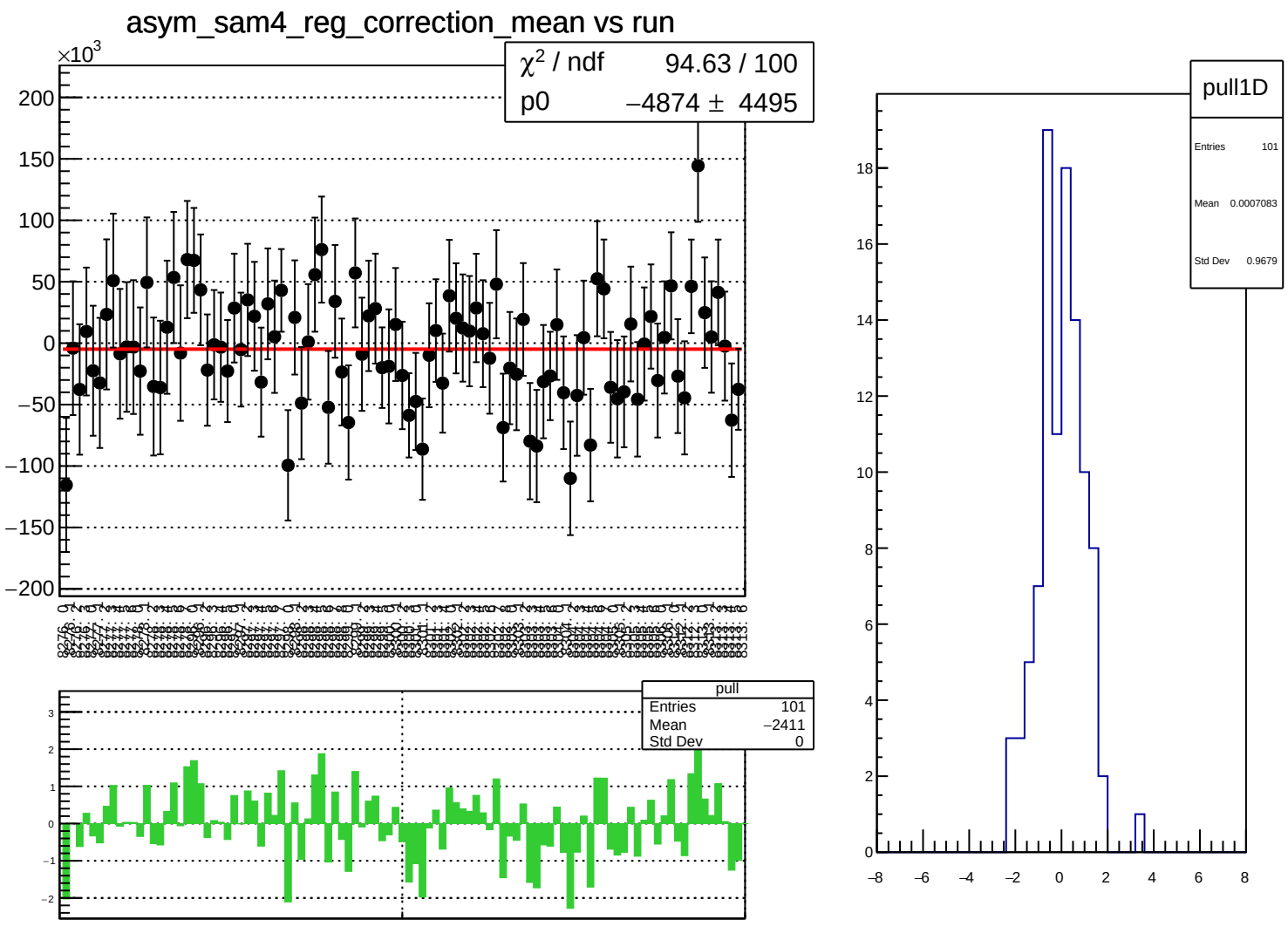

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.52 / 100
p0 −3.211e−13 ± 1.23e−13
pull
Entries 101
Mean 92.29
Std Dev 0
pull1D
Entries 101
Mean −0.03917
Std Dev 0.9247

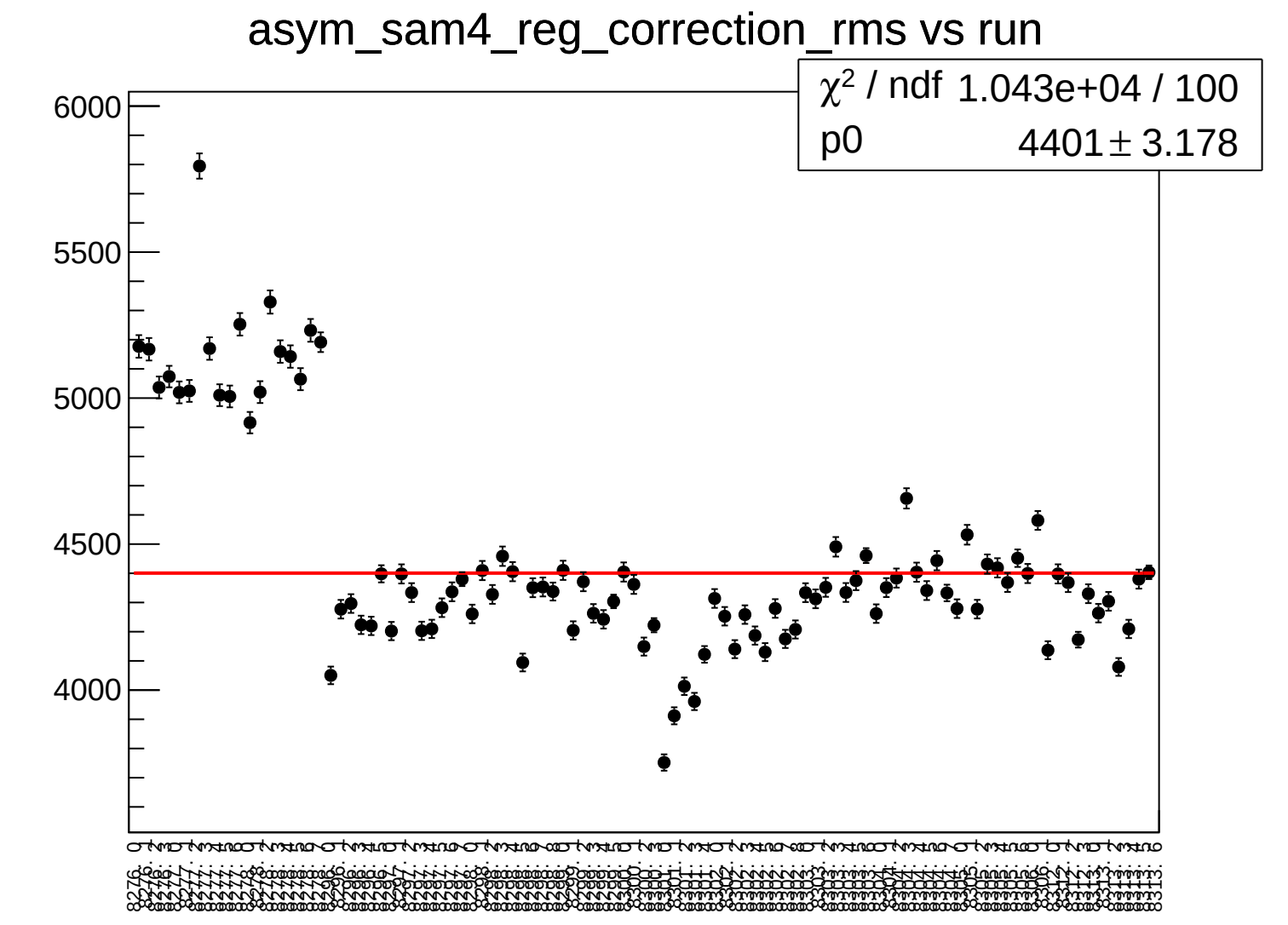

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.7
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 8.018e+05 / 100
p0 9.225e−11 ± 8.695e−14

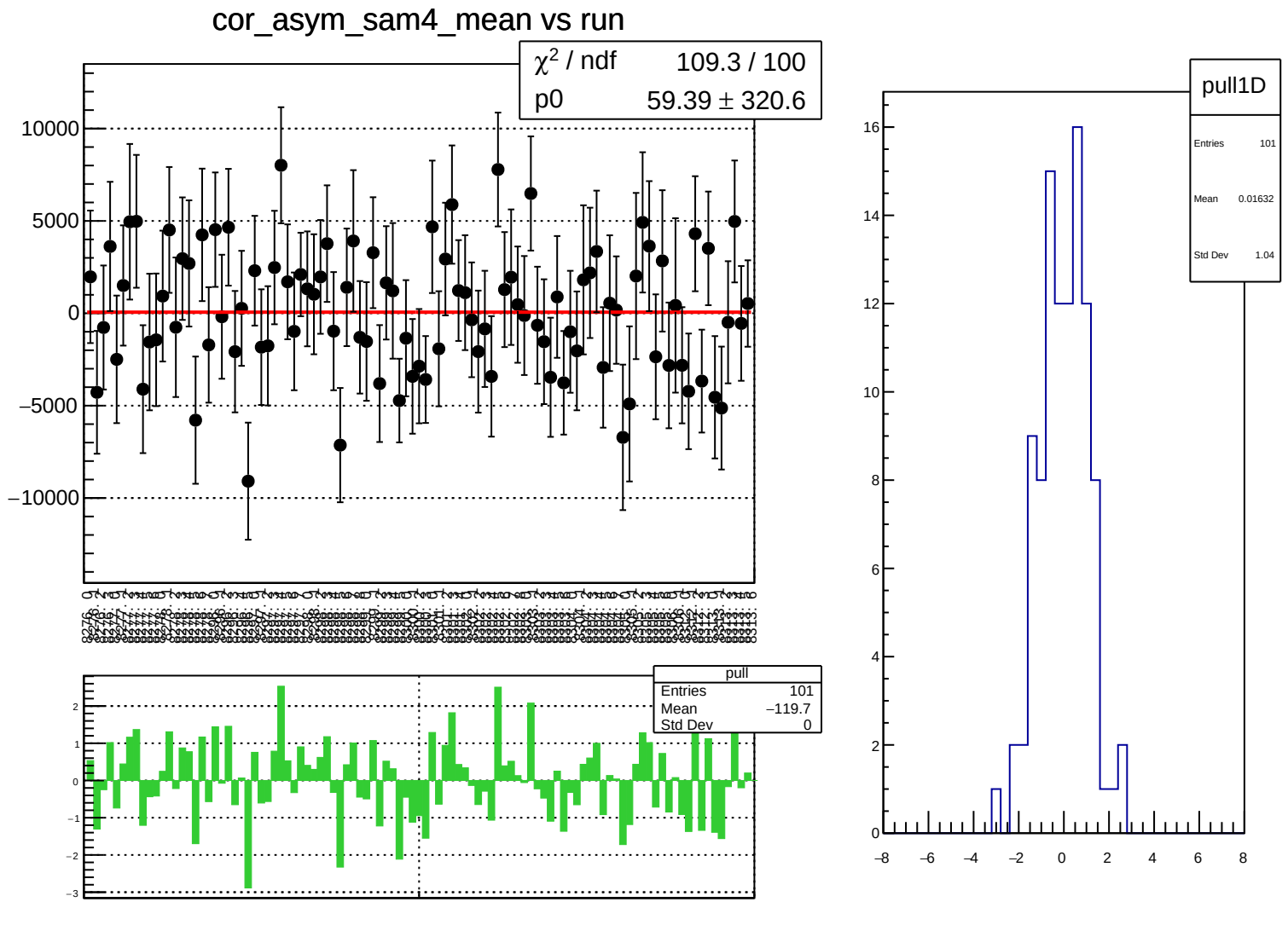

reg_asym_sam4_mean vs run
χ² / ndf 109.3 / 100
p0 59.42 ± 320.6
10000
5000
0
−5000
−10000
pull
Entries 101
Mean −119.7
Std Dev 0
2
1
0
−1
−2
−3

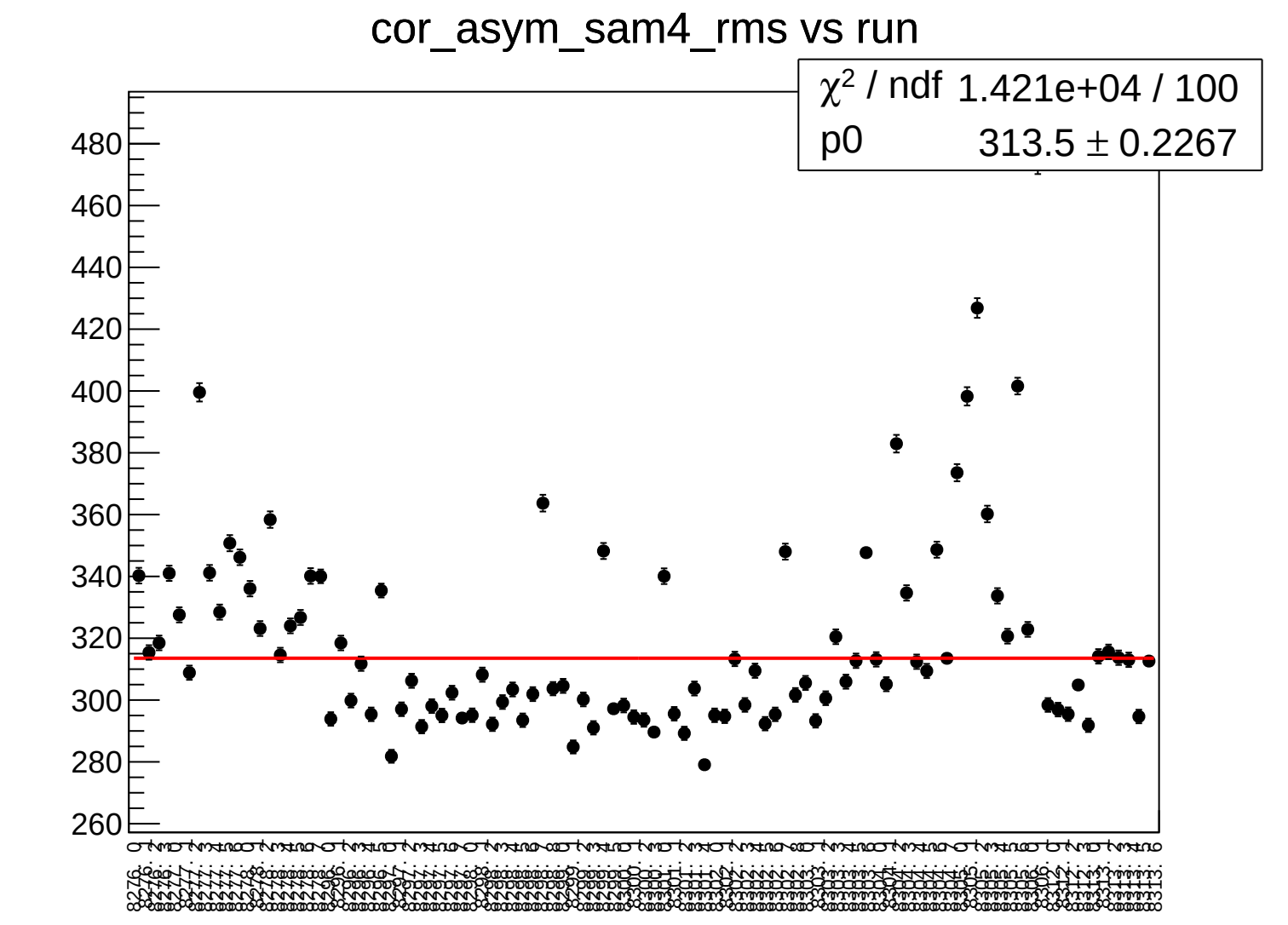

pull1D
Entries 101
Mean 0.01632
Std Dev 1.04
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

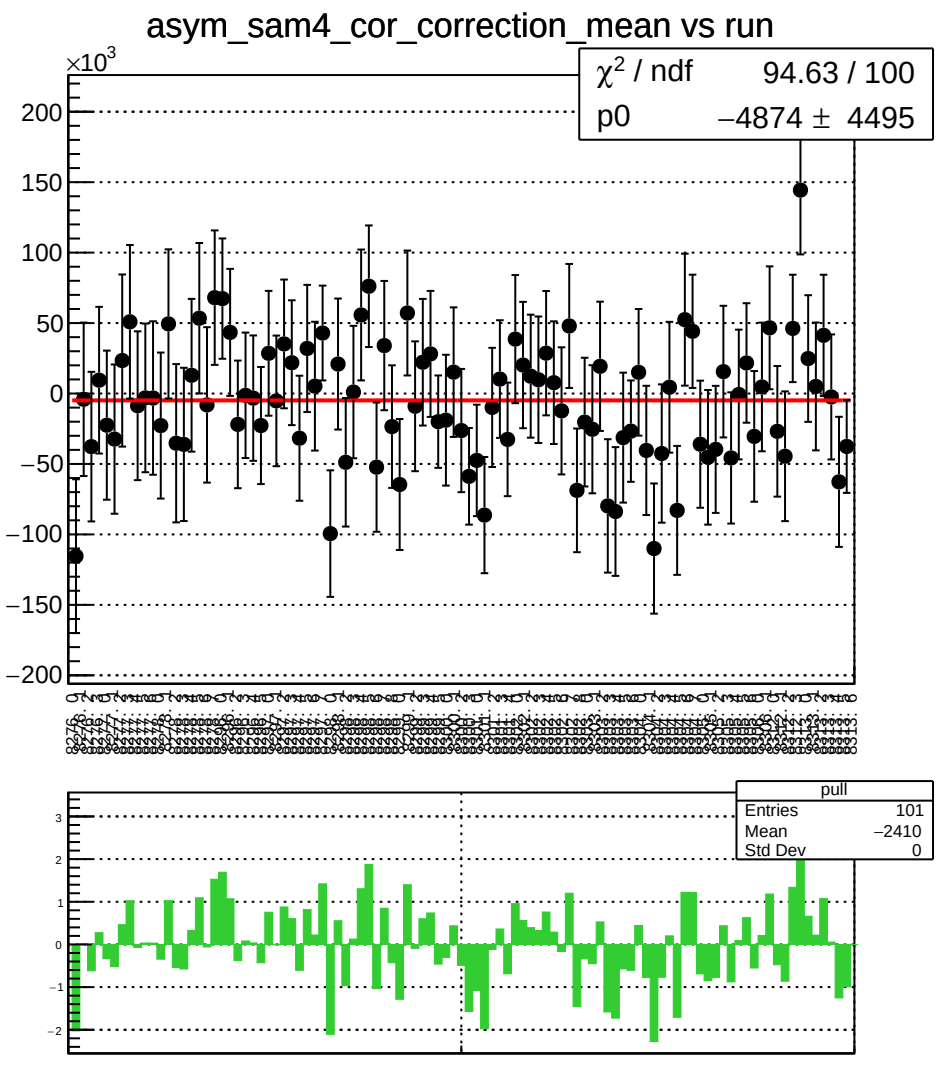

reg_asym_sam4_rms vs run
χ² / ndf 1.421e+04 / 100
p0 313.5 ± 0.2267
480
460
440
420
400
380
360
340
320
300
280
260

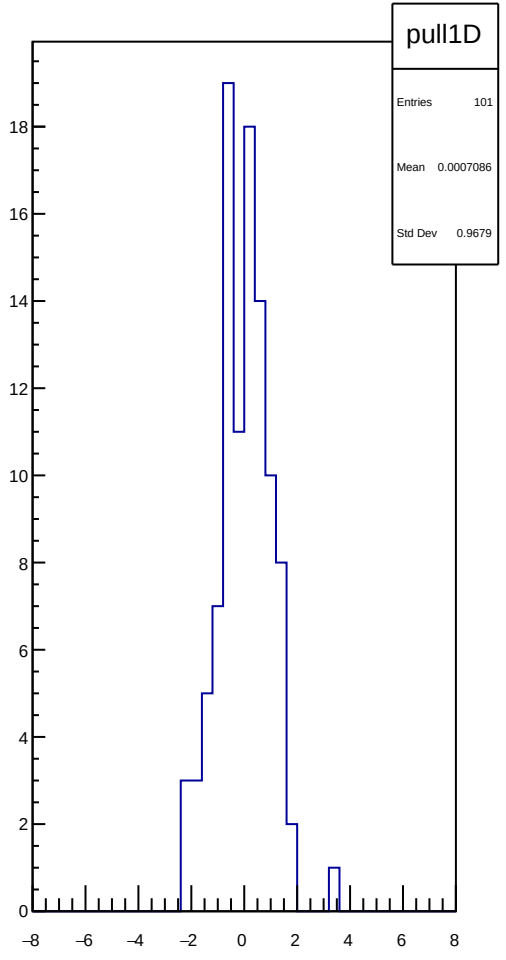

asym_sam4_reg_correction_mean vs run
×10^3
χ² / ndf 94.63 / 100
p0 −4874 ± 4495
pull
Entries 101
Mean −2411
Std Dev 0
pull1D
Entries 101
Mean 0.0007083
Std Dev 0.9679

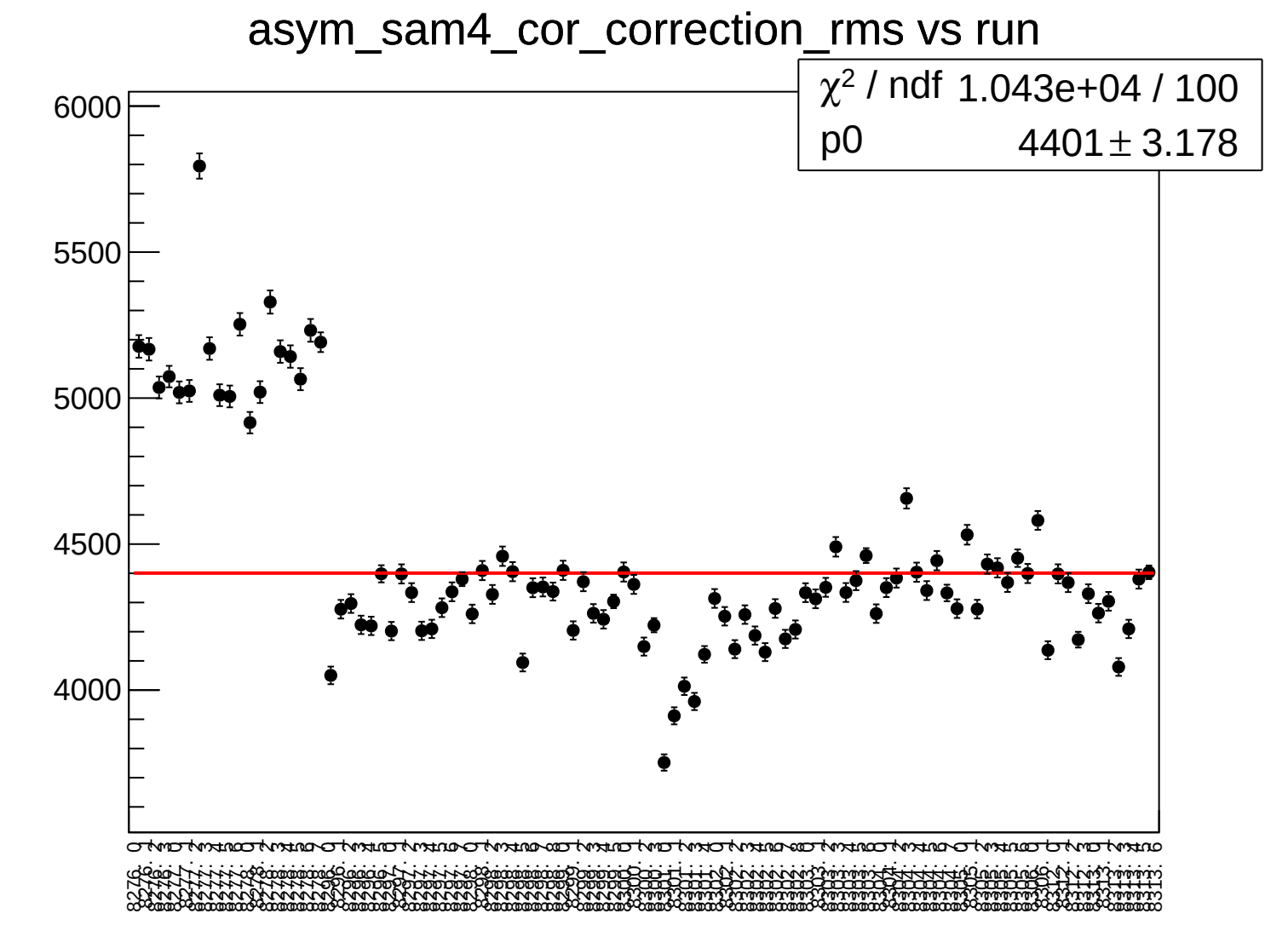

asym_sam4_reg_correction_rms vs run
χ² / ndf 1.043e+04 / 100
p0 4401 ± 3.178
6000
5500
5000
4500
4000

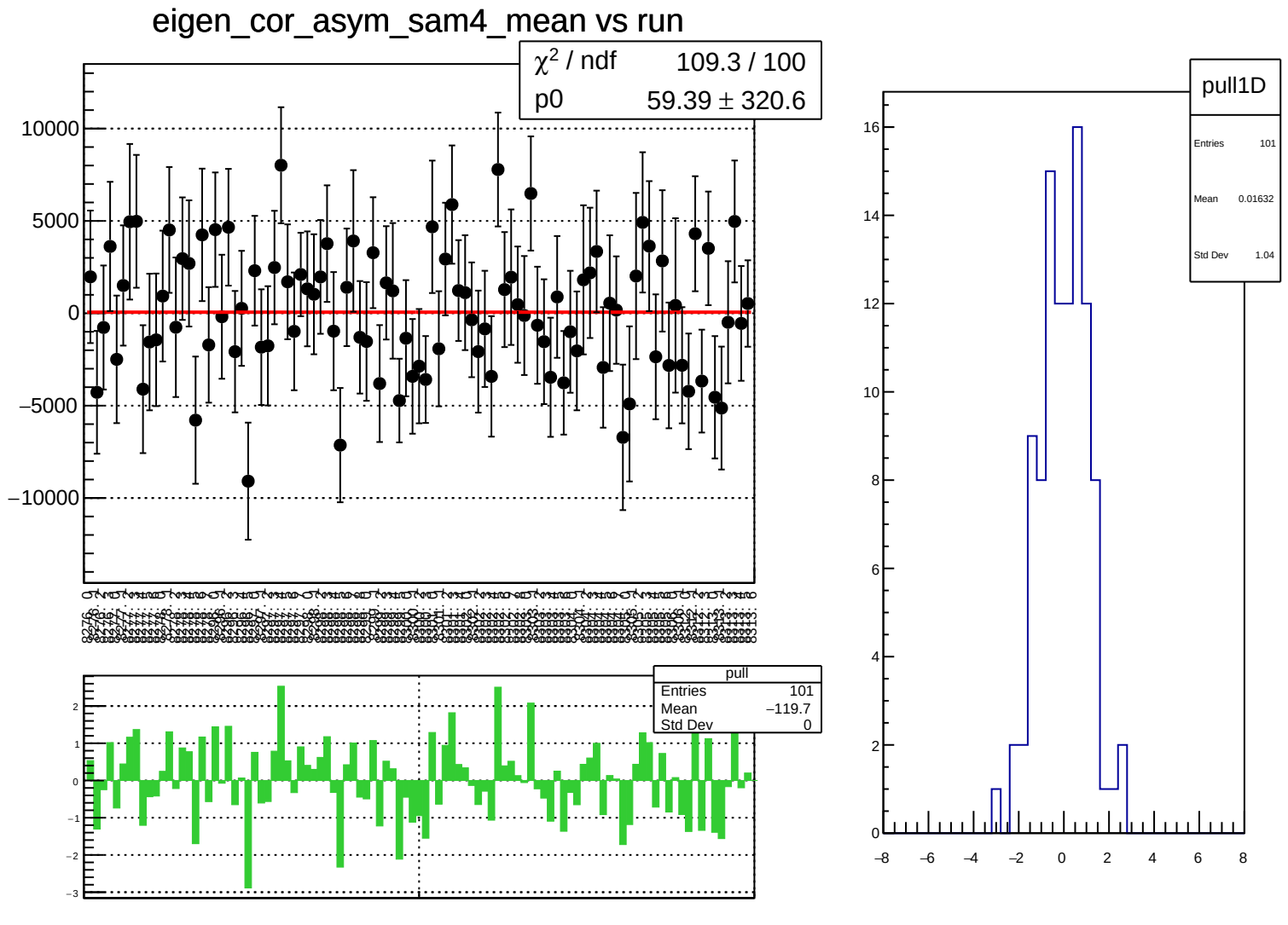

cor_asym_sam4_mean vs run
χ² / ndf 109.3 / 100
p0 59.39 ± 320.6
10000
5000
0
−5000
−10000
pull
Entries 101
Mean −119.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.01632
Std Dev 1.04
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

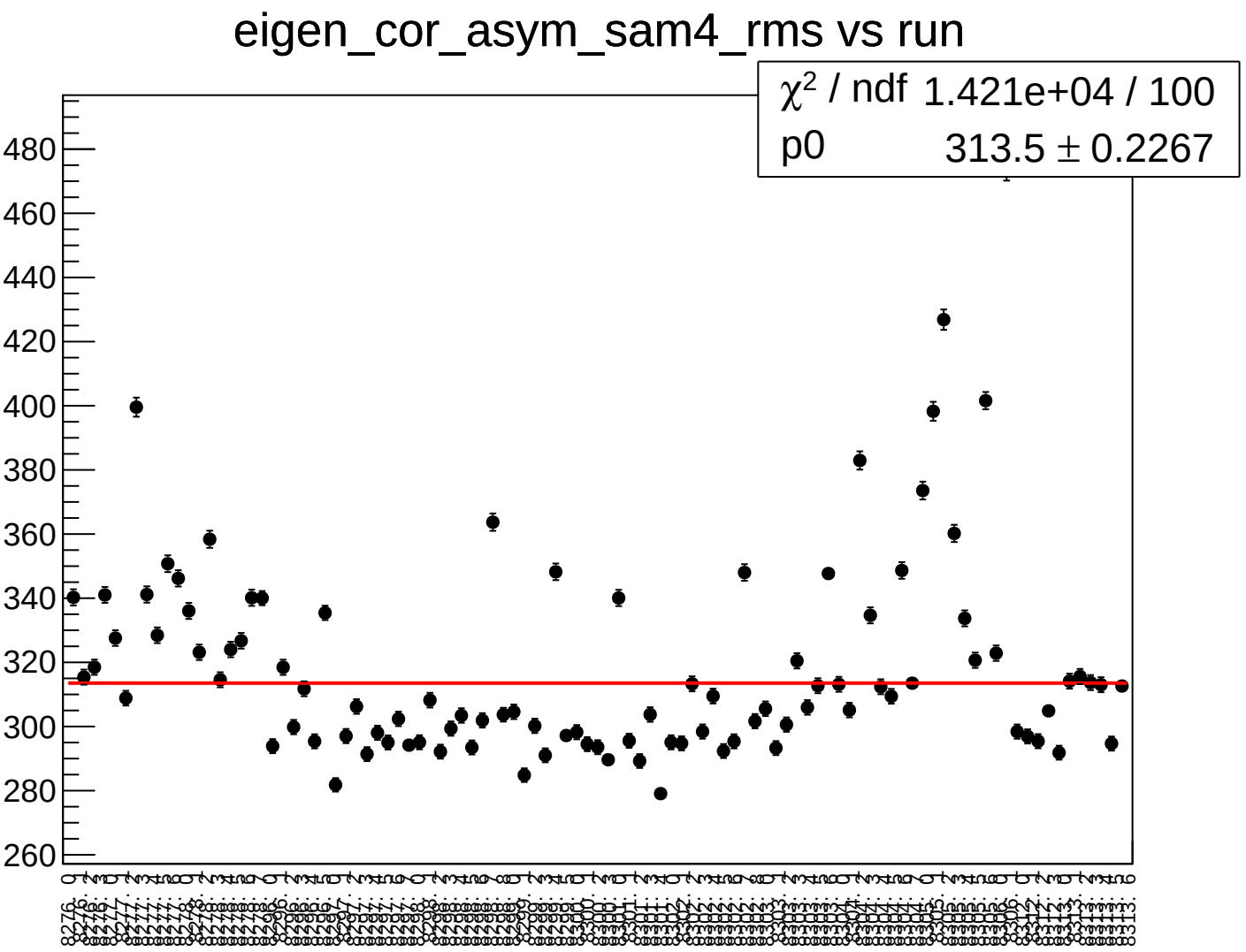

cor_asym_sam4_rms vs run
χ² / ndf 1.421e+04 / 100
p0 313.5 ± 0.2267
480
460
440
420
400
380
360
340
320
300
280
260

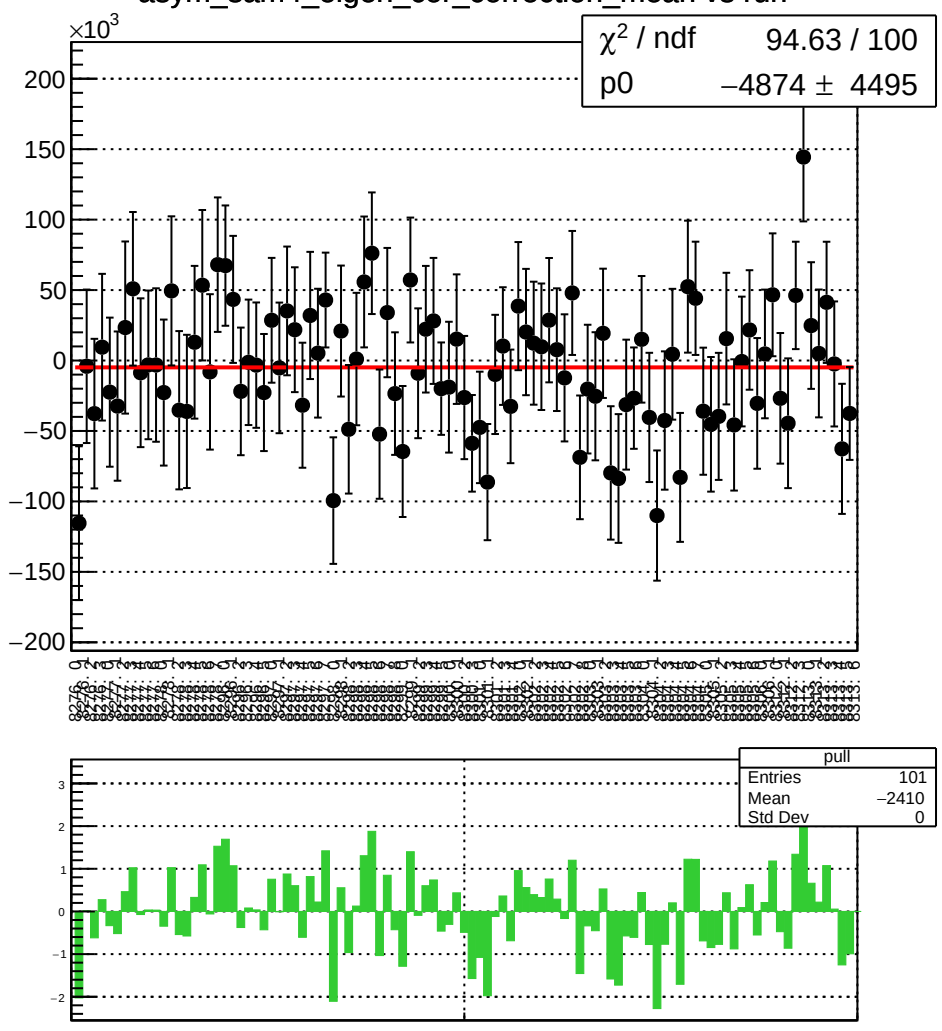

asym_sam4_cor_correction_mean vs run
×10^3
χ² / ndf 94.63 / 100
p0 −4874 ± 4495
pull
Entries 101
Mean −2410
Std Dev 0

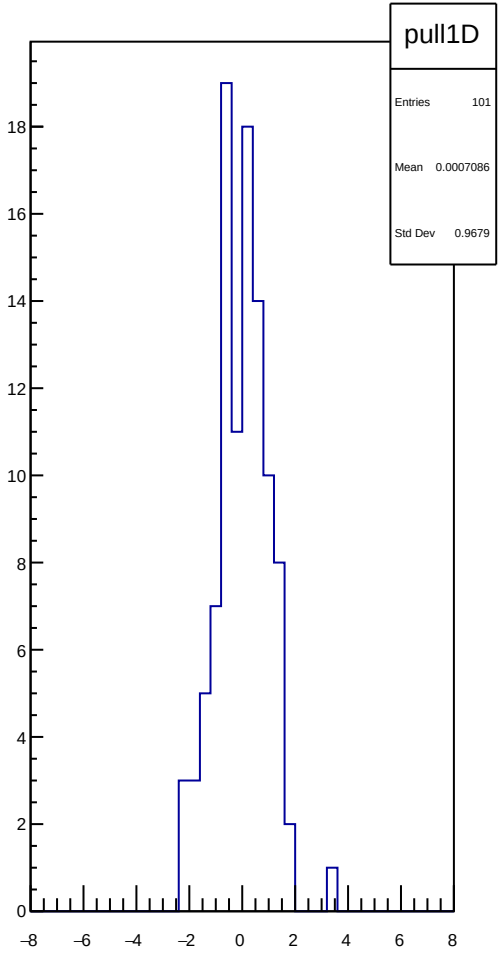

pull1D
Entries 101
Mean 0.0007086
Std Dev 0.9679

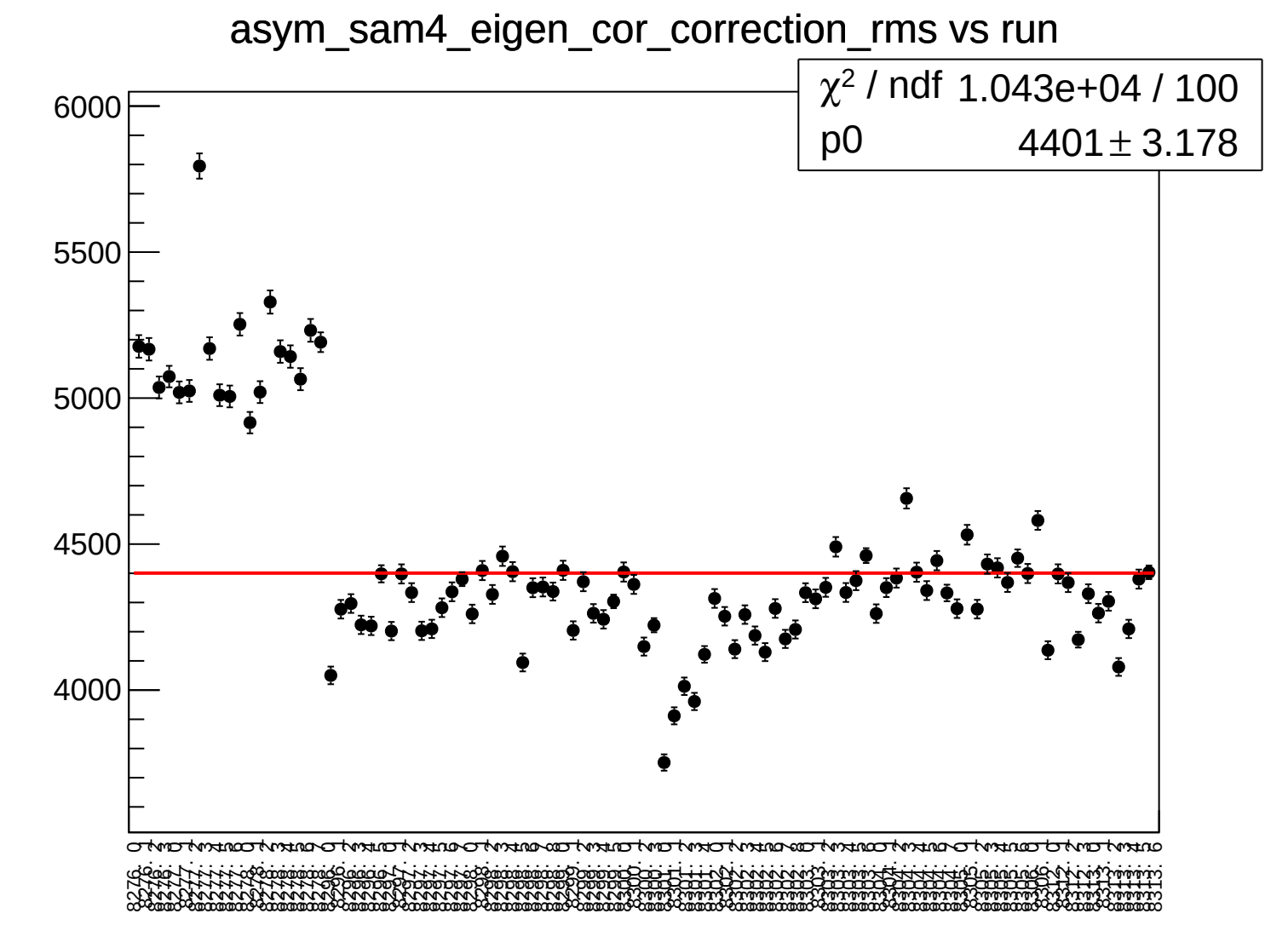

asym_sam4_cor_correction_rms vs run
χ² / ndf 1.043e+04 / 100
p0 4401 ± 3.178
6000
5500
5000
4500
4000

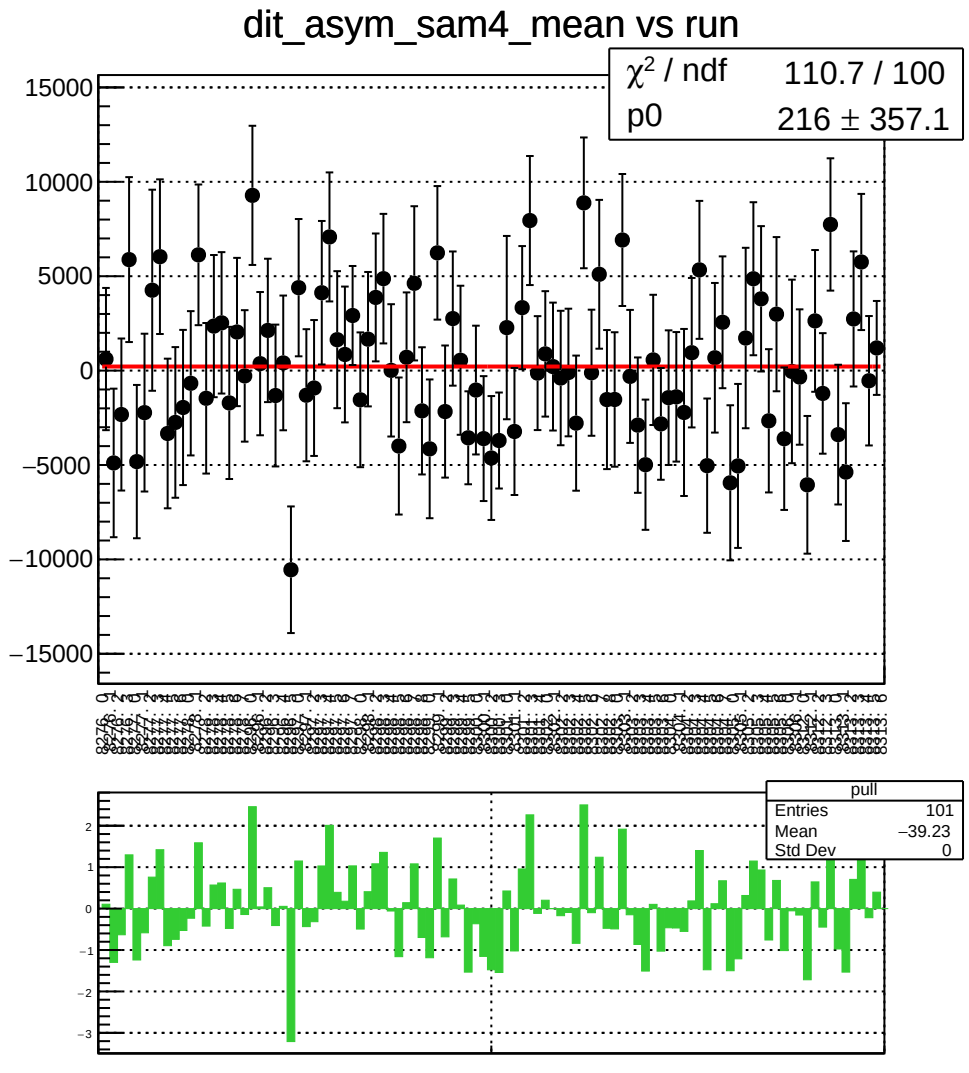

eigen_cor_asym_sam4_mean vs run
χ² / ndf 109.3 / 100
p0 59.39 ± 320.6
10000
5000
0
−5000
−10000
pull
Entries 101
Mean −119.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.01632
Std Dev 1.04
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

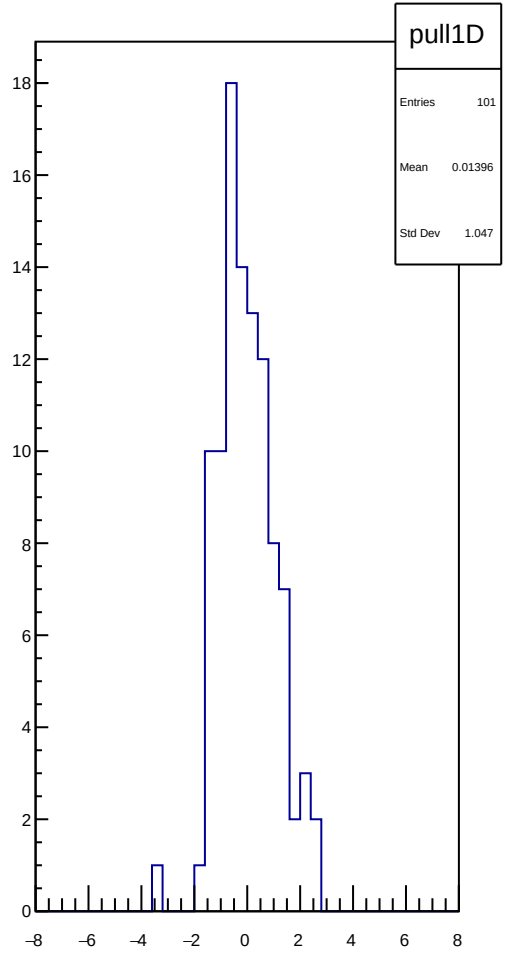

eigen_cor_asym_sam4_rms vs run
χ^2 / ndf 1.421e+04 / 100
p0 313.5 ± 0.2267
480
460
440
420
400
380
360
340
320
300
280
260


asym_sam4_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 94.63 / 100
p0 −4874 ± 4495
pull
Entries 101
Mean −2410
Std Dev 0


pull1D
Entries 101
Mean 0.0007086
Std Dev 0.9679


asym_sam4_eigen_cor_correction_rms vs run
χ² / ndf 1.043e+04 / 100
p0 4401 ± 3.178
6000
5500
5000
4500
4000


dit_asym_sam4_mean vs run
χ² / ndf 110.7 / 100
p0 216 ± 357.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 101
Mean −39.23
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 101
Mean 0.01396
Std Dev 1.047
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
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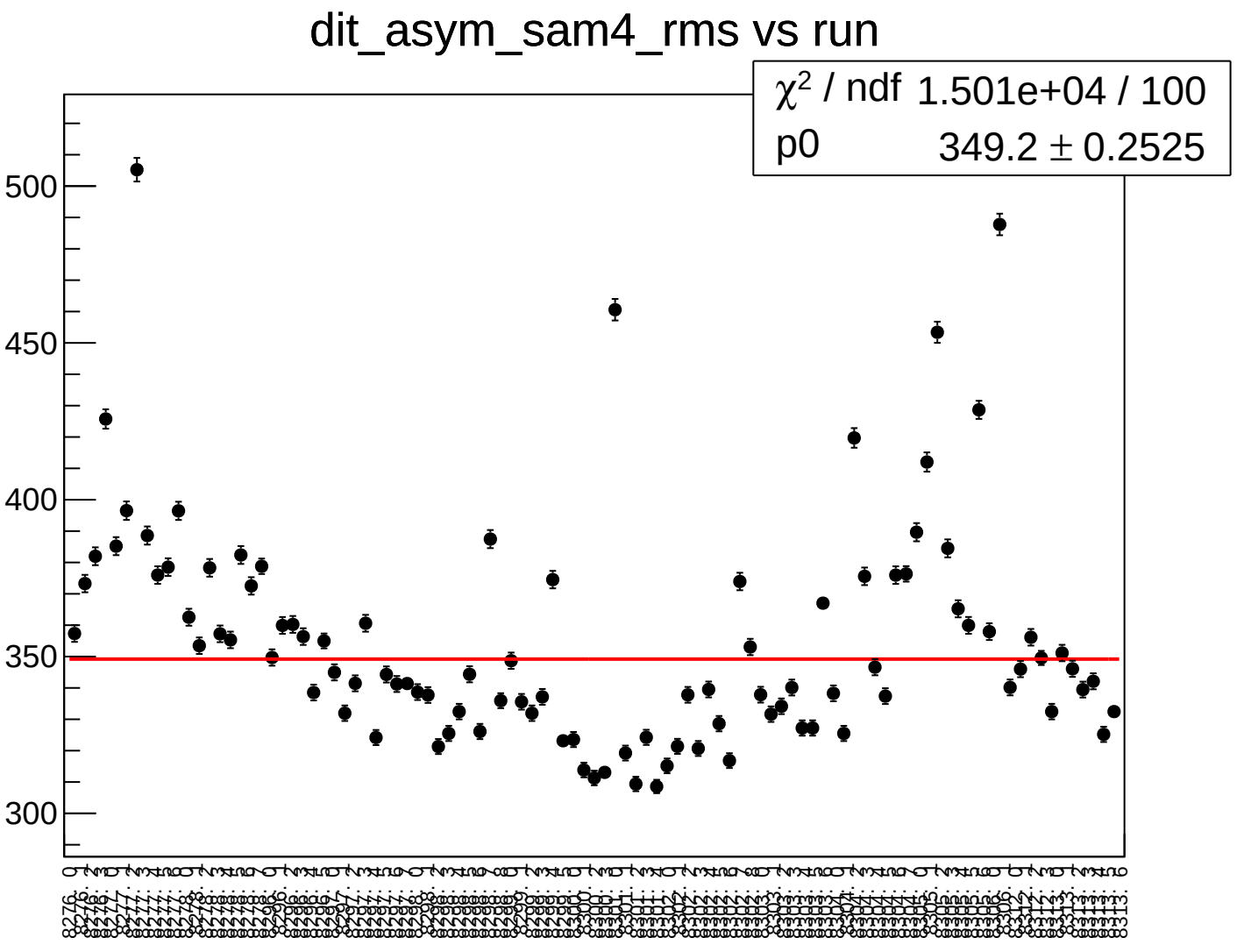
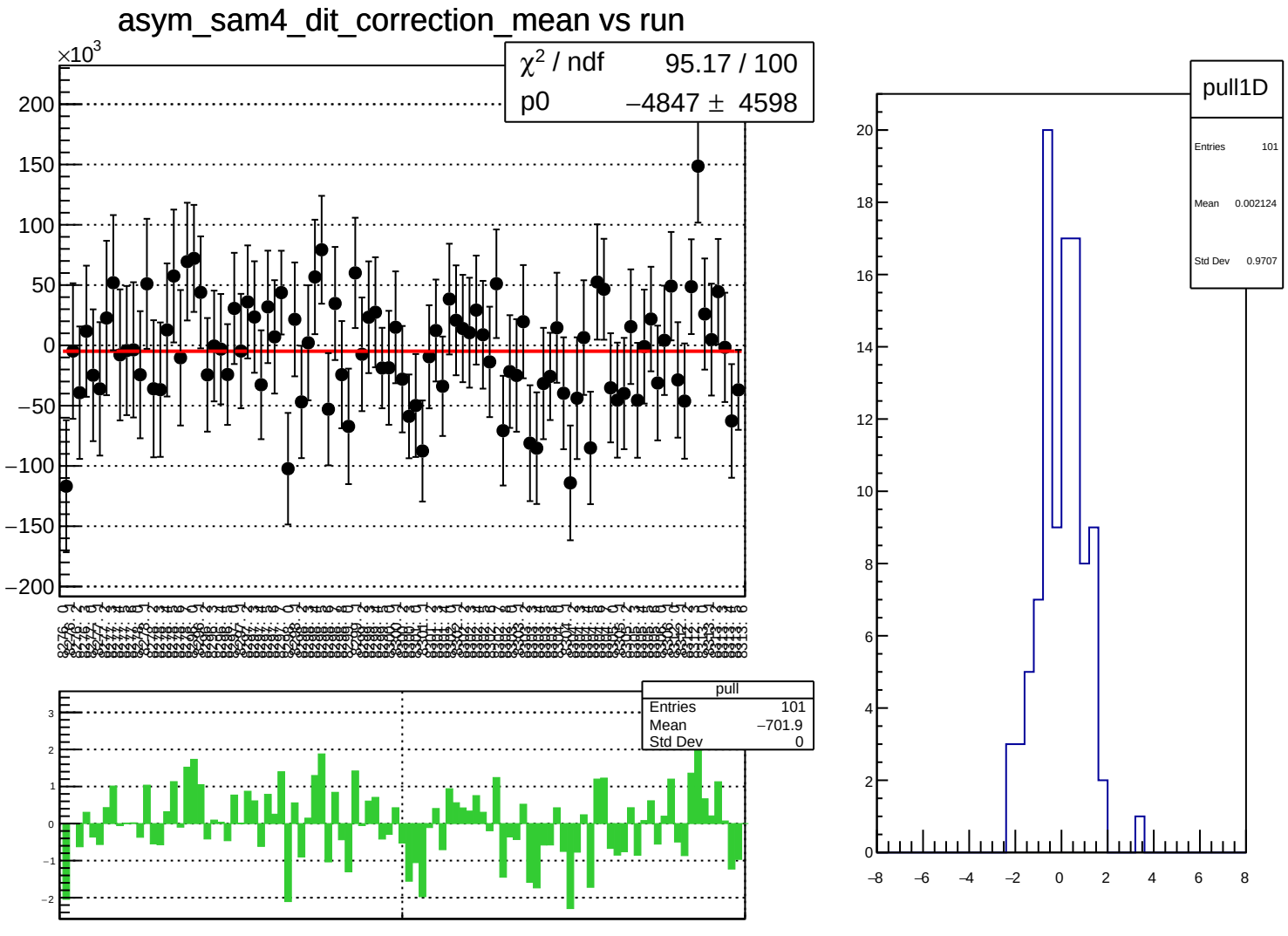
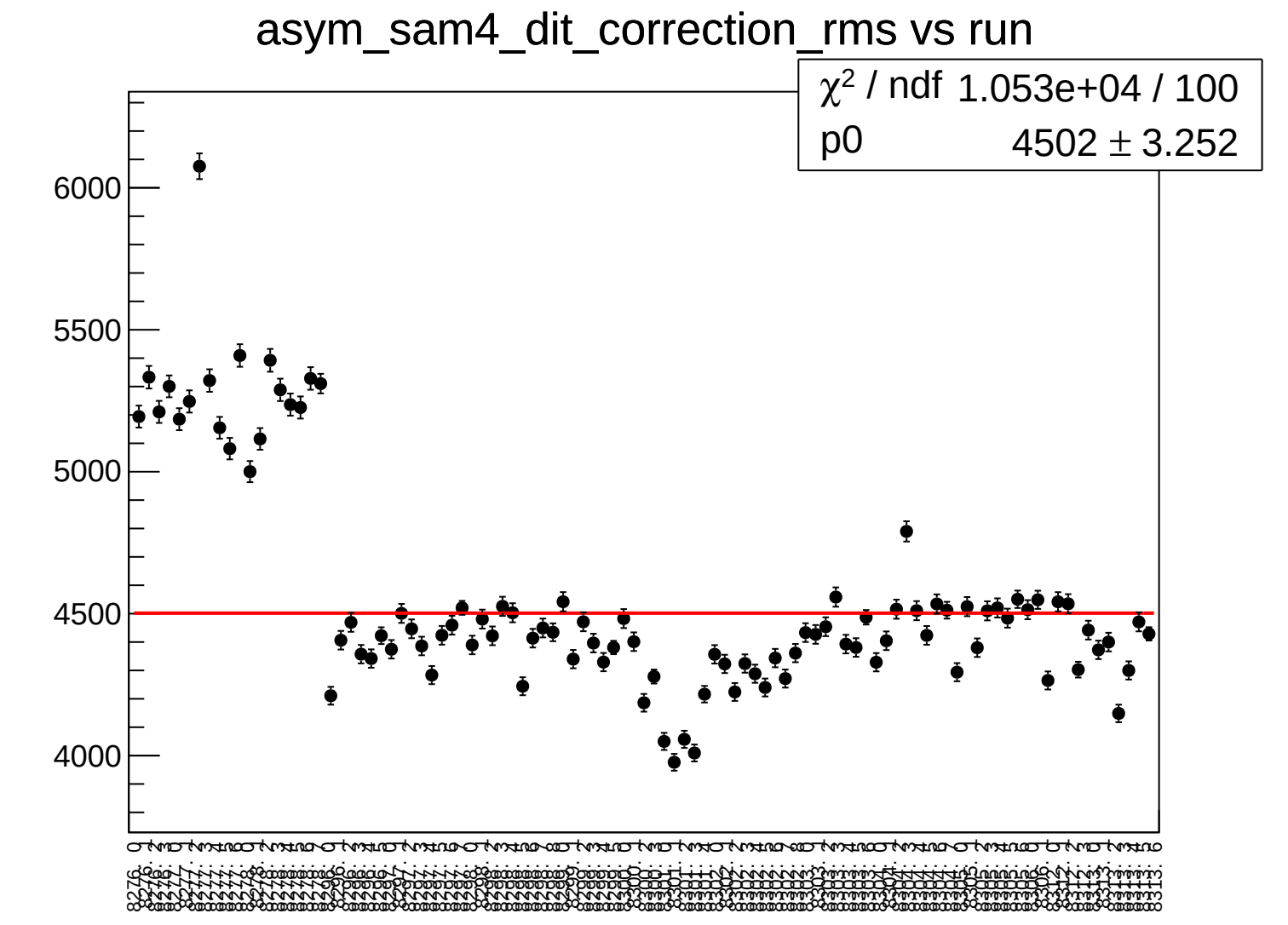
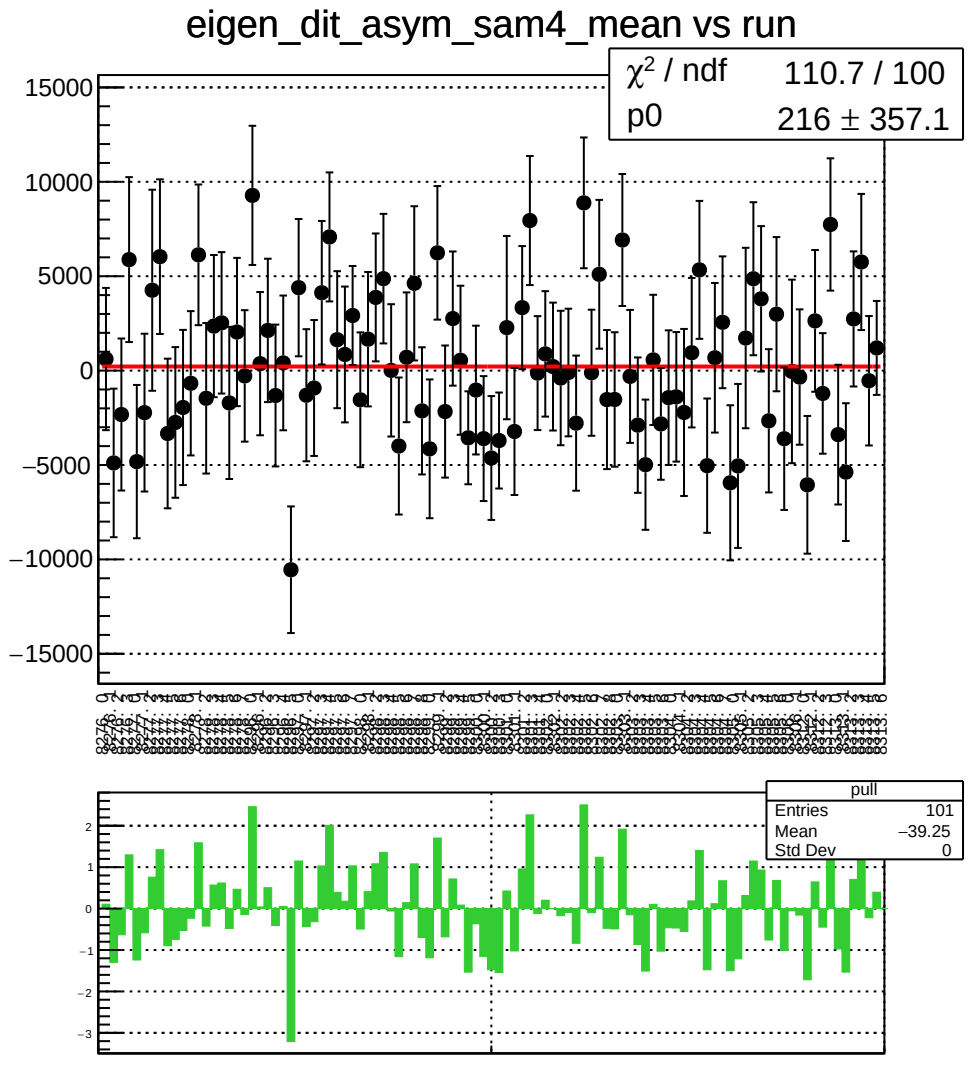
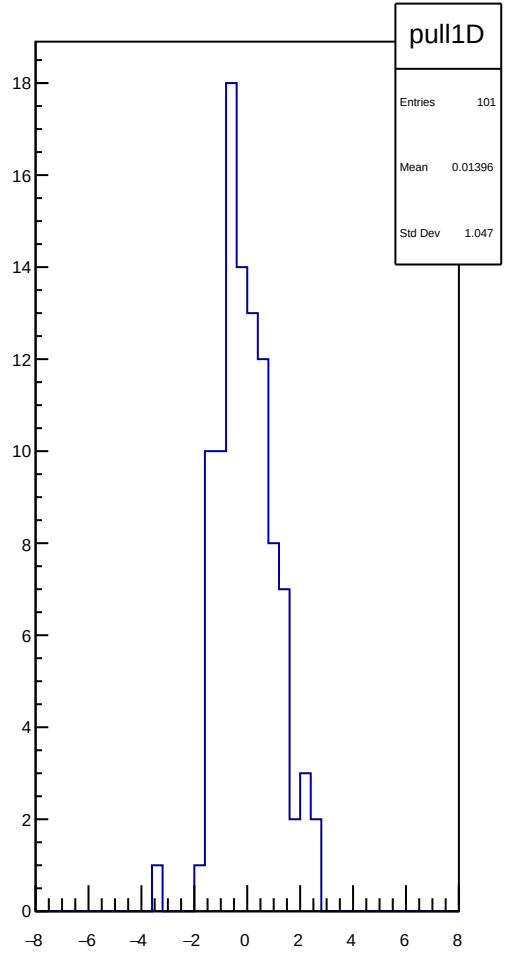
0
2
4
6
8

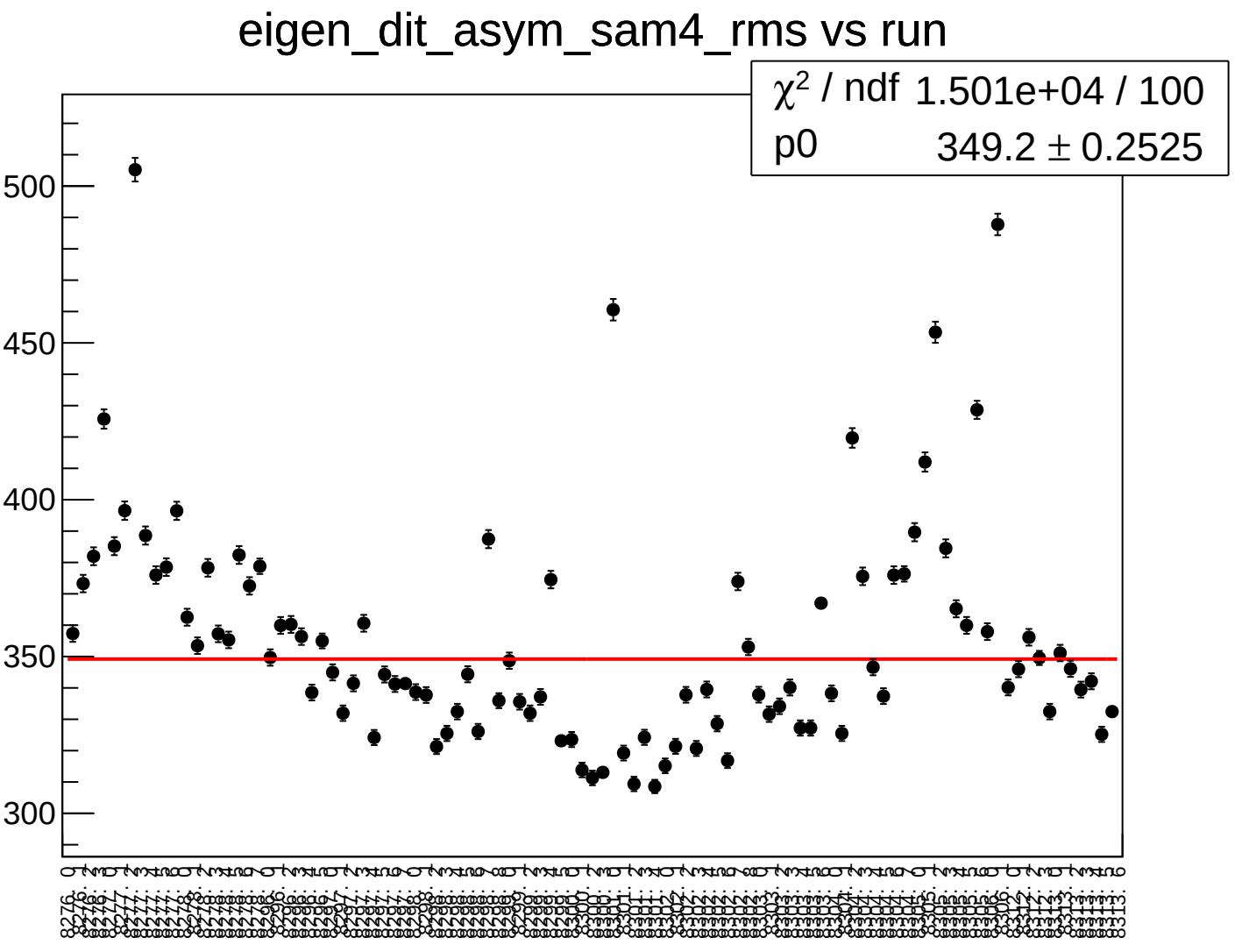

dit_asym_sam4_rms vs run
χ² / ndf 1.501e+04 / 100
p0 349.2 ± 0.2525
500
450
400
350
300

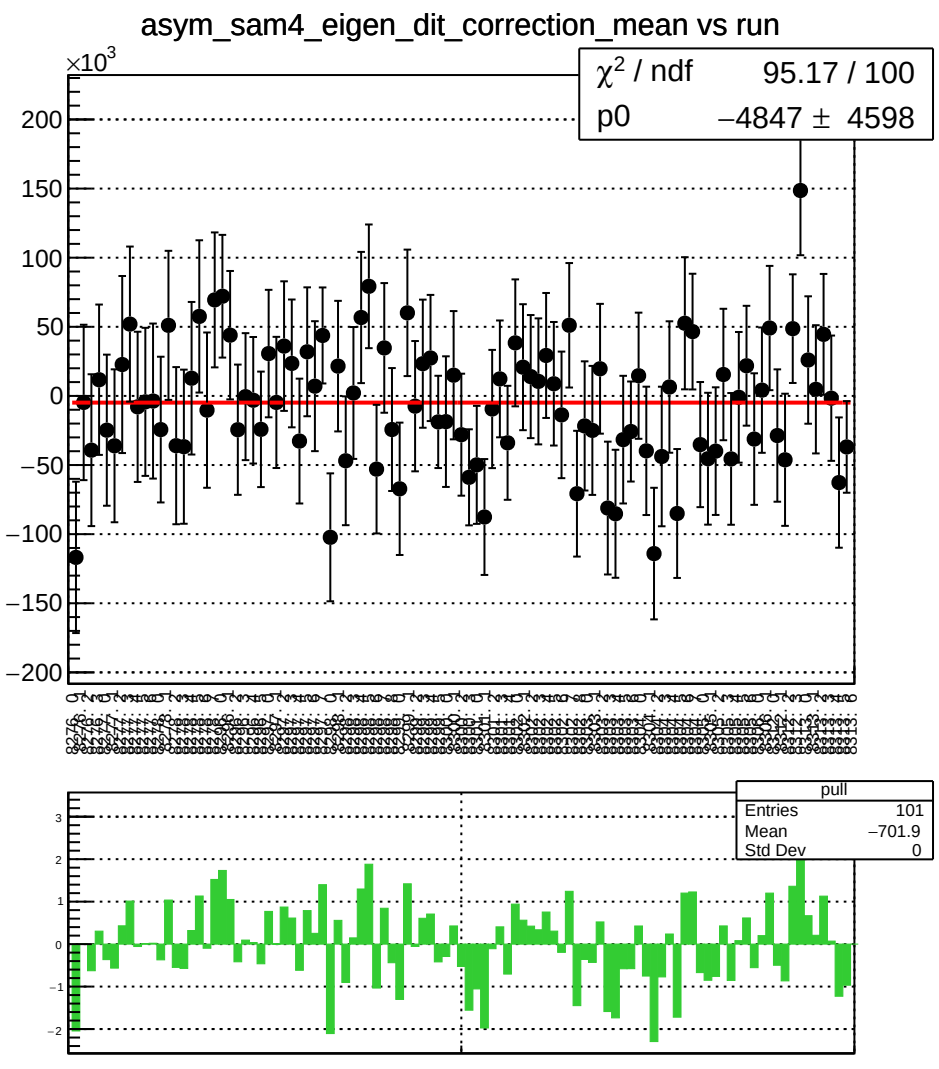

asym_sam4_dit_correction_mean vs run
×10^3
χ^2 / ndf 95.17 / 100
p0 −4847 ± 4598
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 101
Mean −701.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.002124
Std Dev 0.9707
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

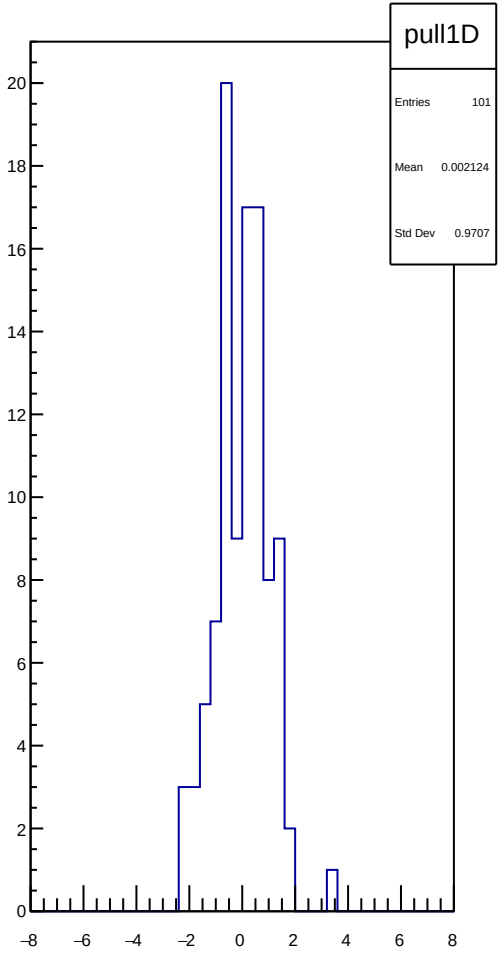

asym_sam4_dit_correction_rms vs run
χ² / ndf 1.053e+04 / 100
p0 4502 ± 3.252
6000
5500
5000
4500
4000

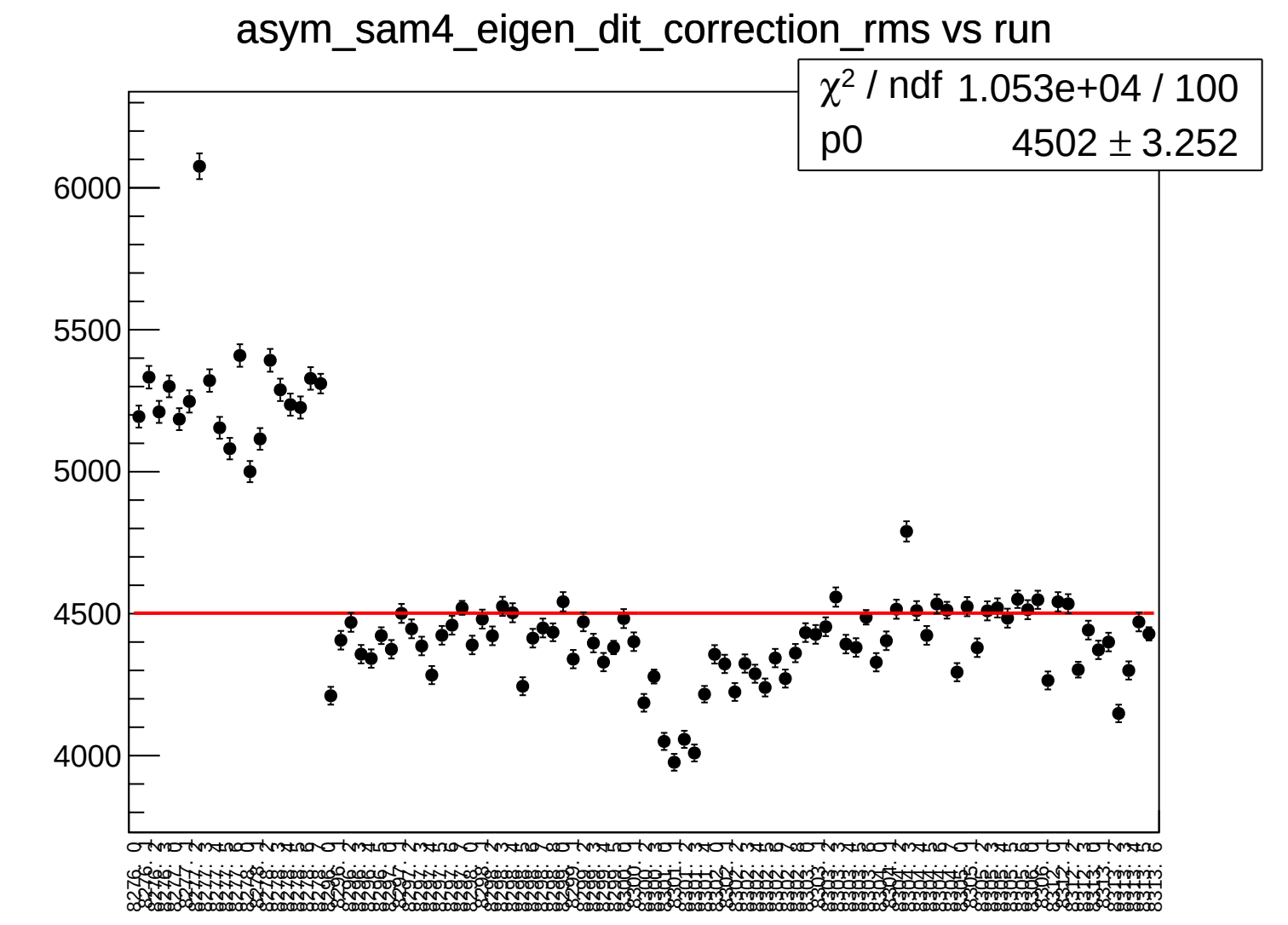

eigen_dit_asym_sam4_mean vs run
χ² / ndf 110.7 / 100
p0 216 ± 357.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 101
Mean −39.25
Std Dev 0
2
1
0
−1
−2
−3

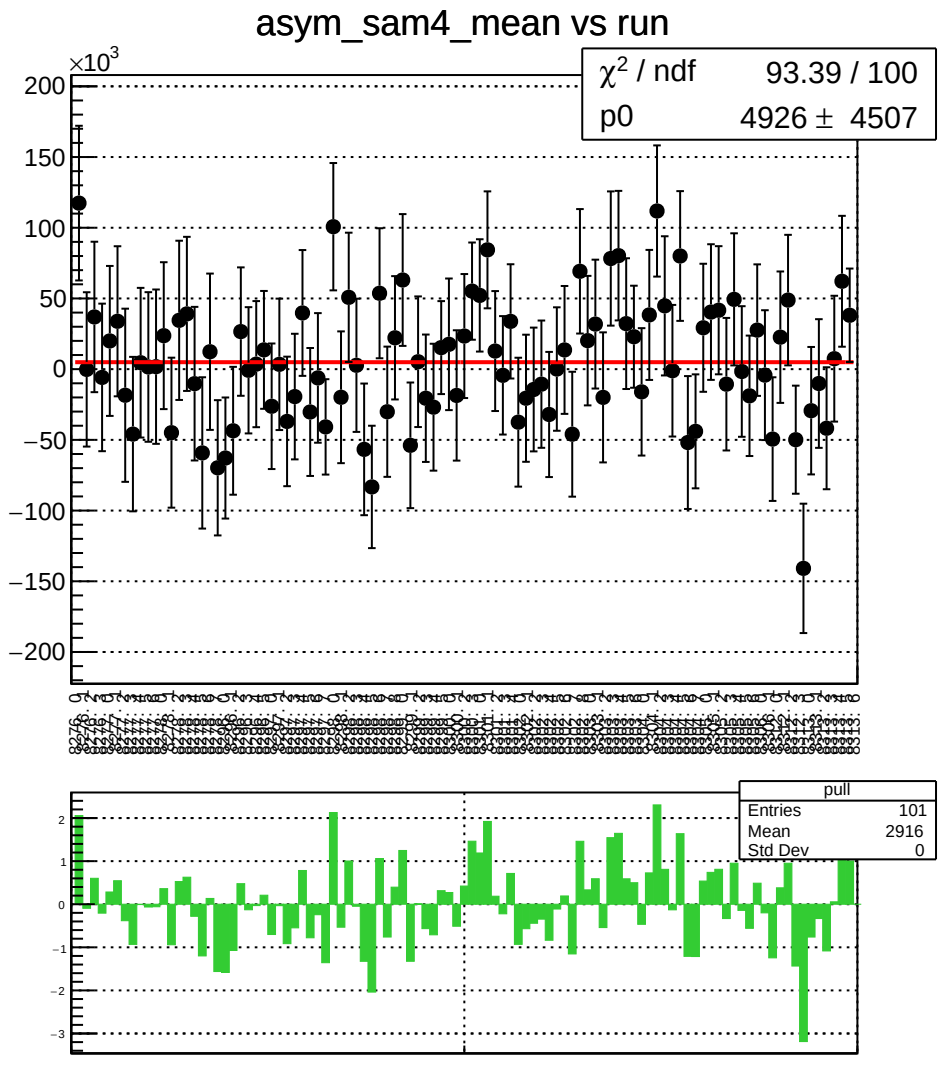

pull1D
Entries 101
Mean 0.01396
Std Dev 1.047
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

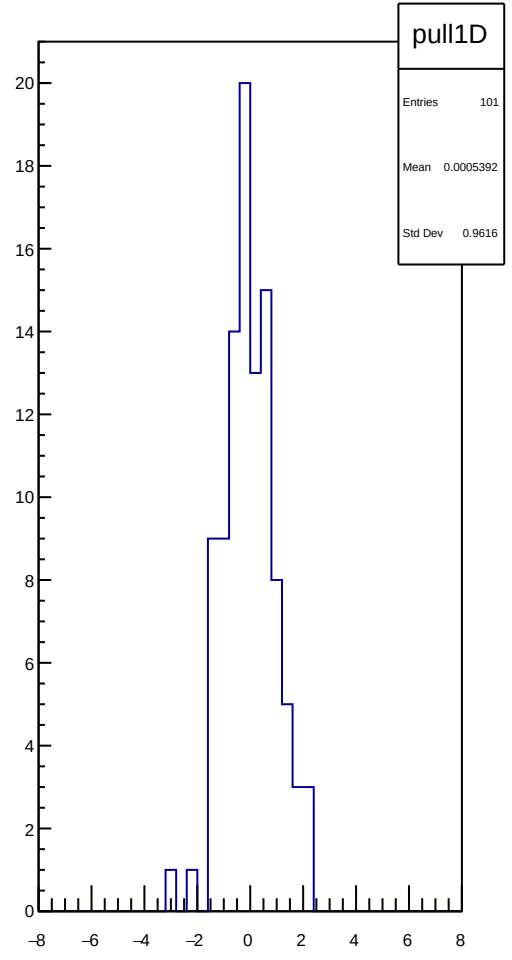

eigen_dit_asym_sam4_rms vs run
χ² / ndf 1.501e+04 / 100
p0 349.2 ± 0.2525
500
450
400
350
300

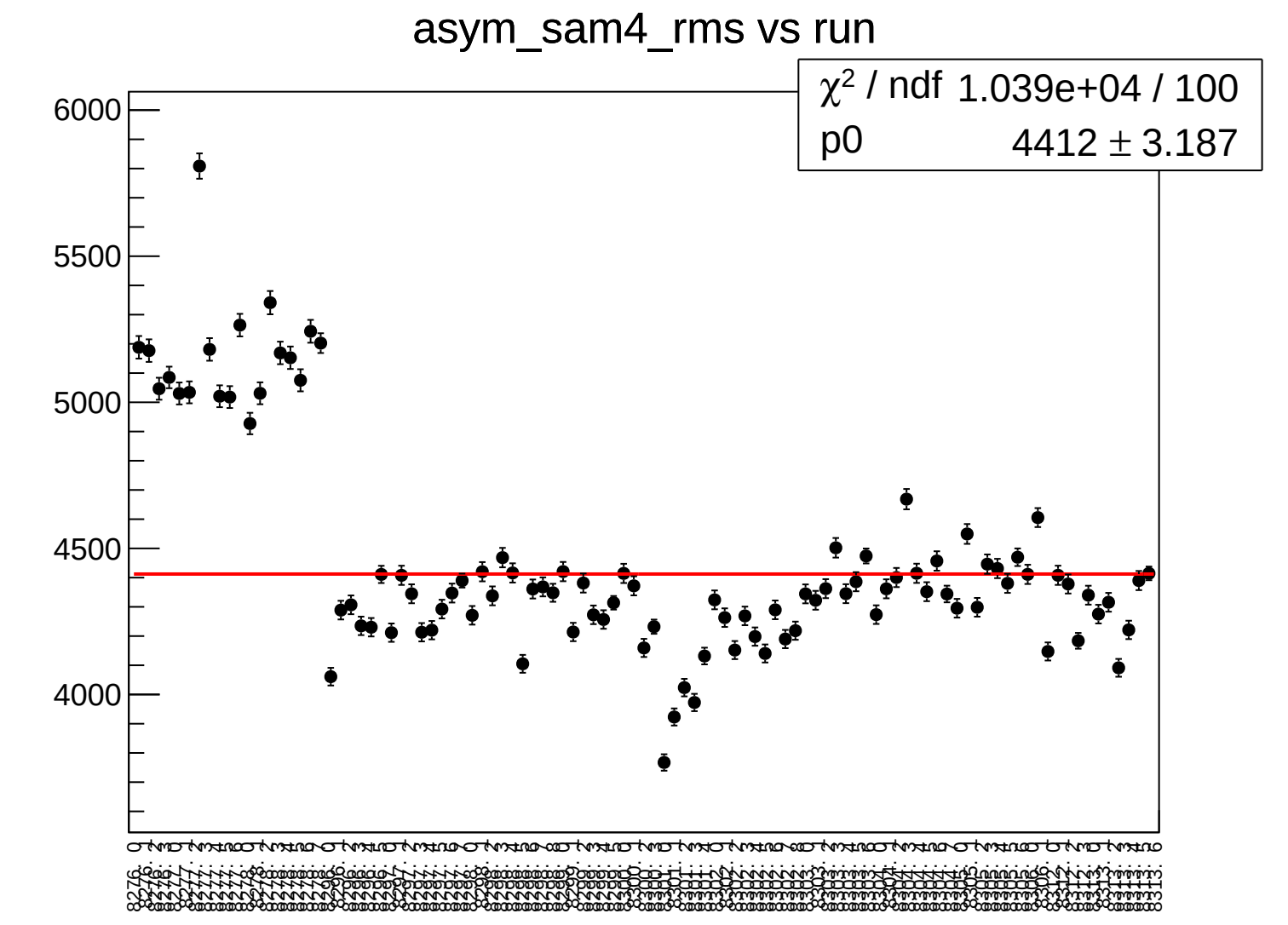

asym_sam4_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 95.17 / 100
p0 −4847 ± 4598
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 101
Mean −701.9
Std Dev 0
3
2
1
0
−1
−2

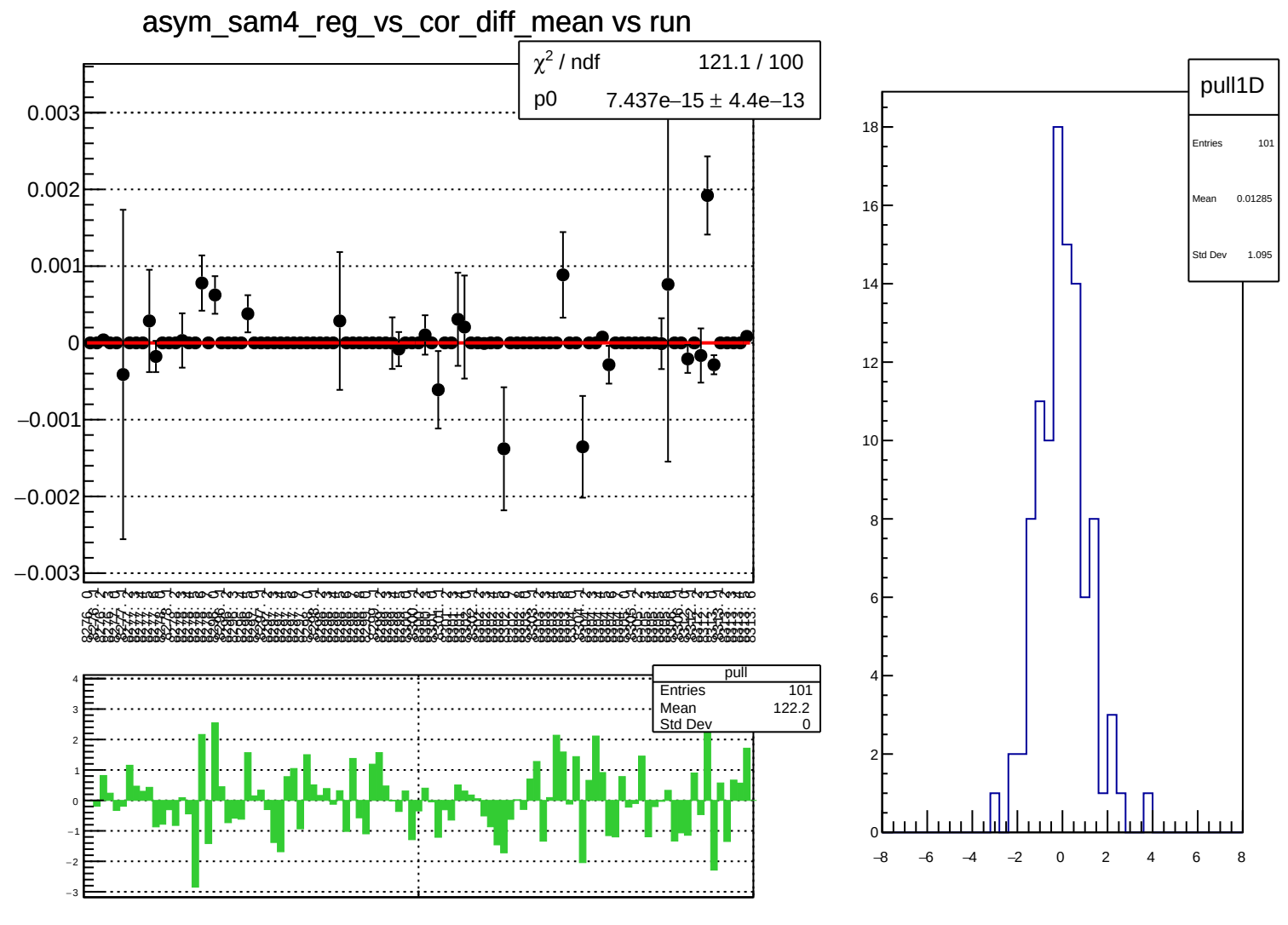

pull1D
Entries 101
Mean 0.002124
Std Dev 0.9707
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

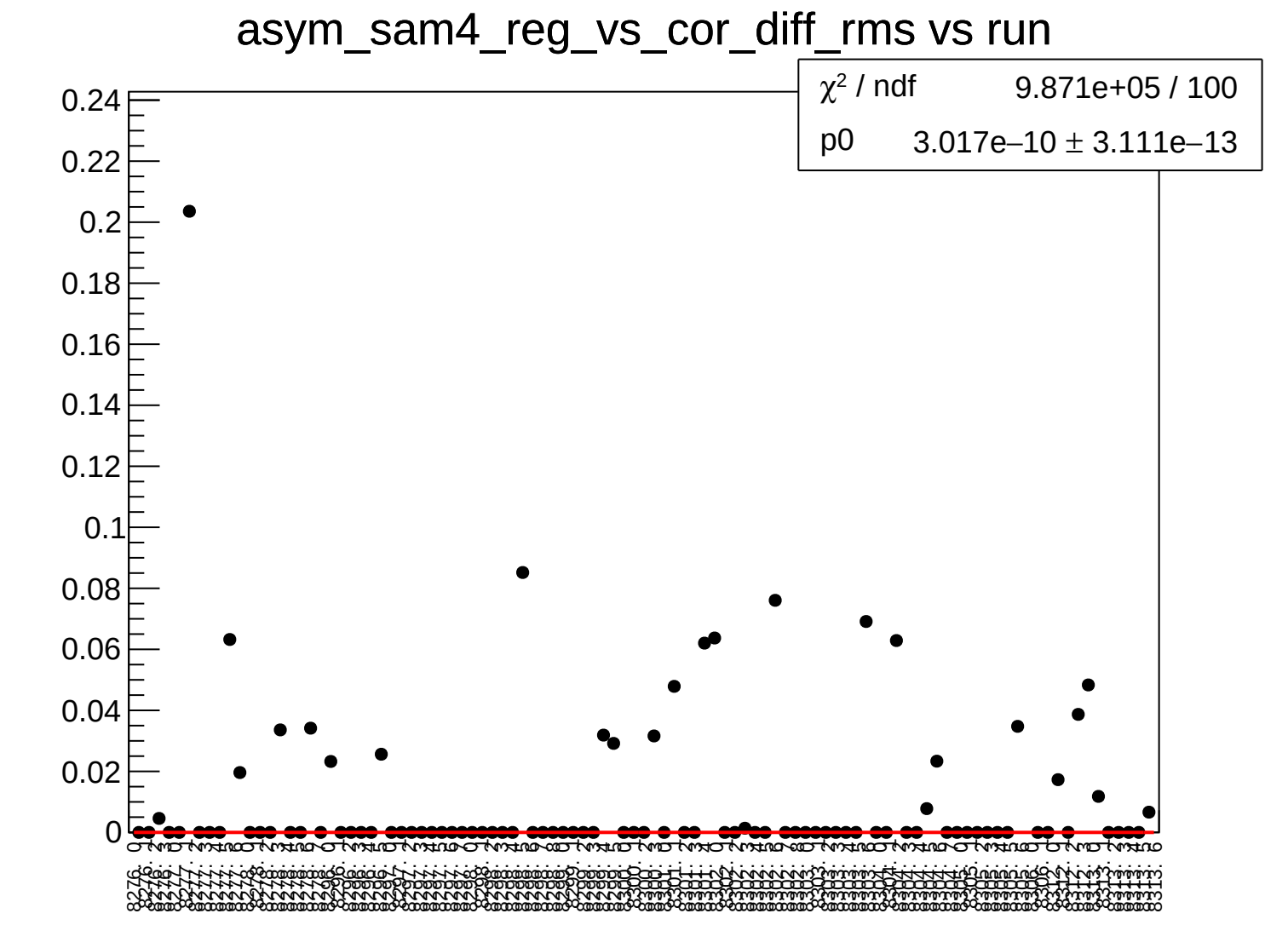

asym_sam4_eigen_dit_correction_rms vs run
χ² / ndf 1.053e+04 / 100
p0 4502 ± 3.252
6000
5500
5000
4500
4000

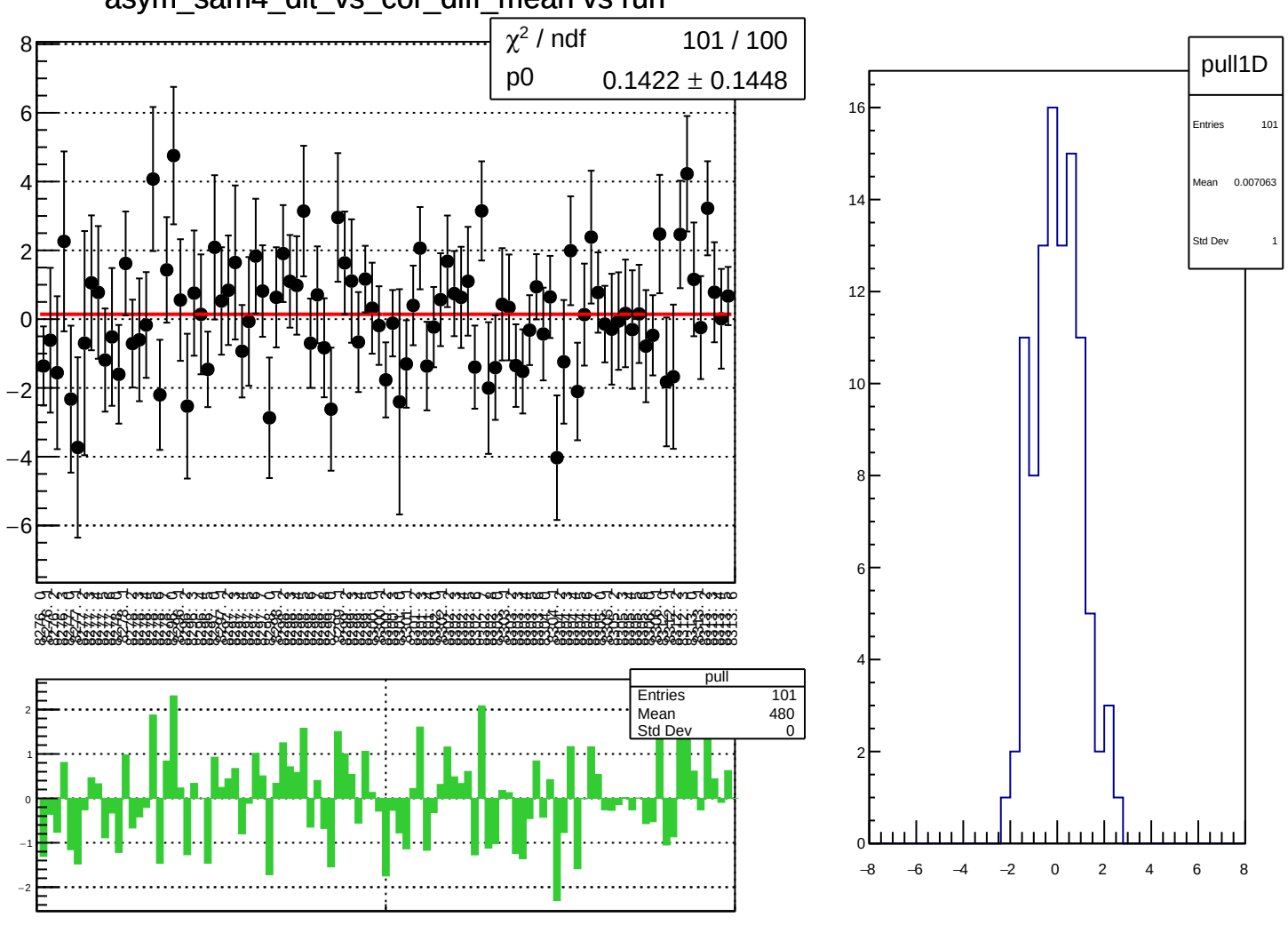

asym_sam4_mean vs run
×10^3
χ^2 / ndf 93.39 / 100
p0 4926 ± 4507
pull
Entries 101
Mean 2916
Std Dev 0

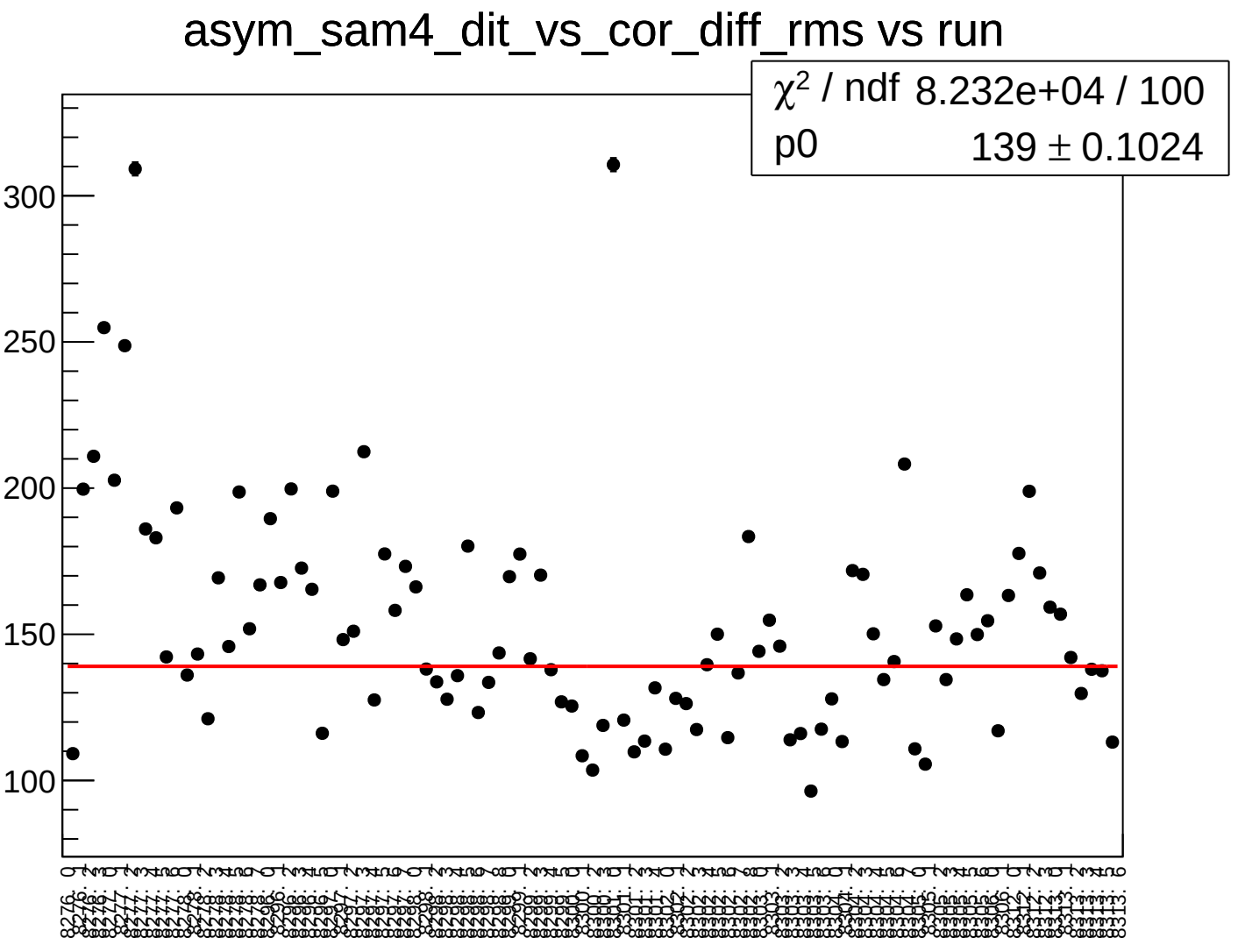

pull1D
Entries 101
Mean 0.0005392
Std Dev 0.9616

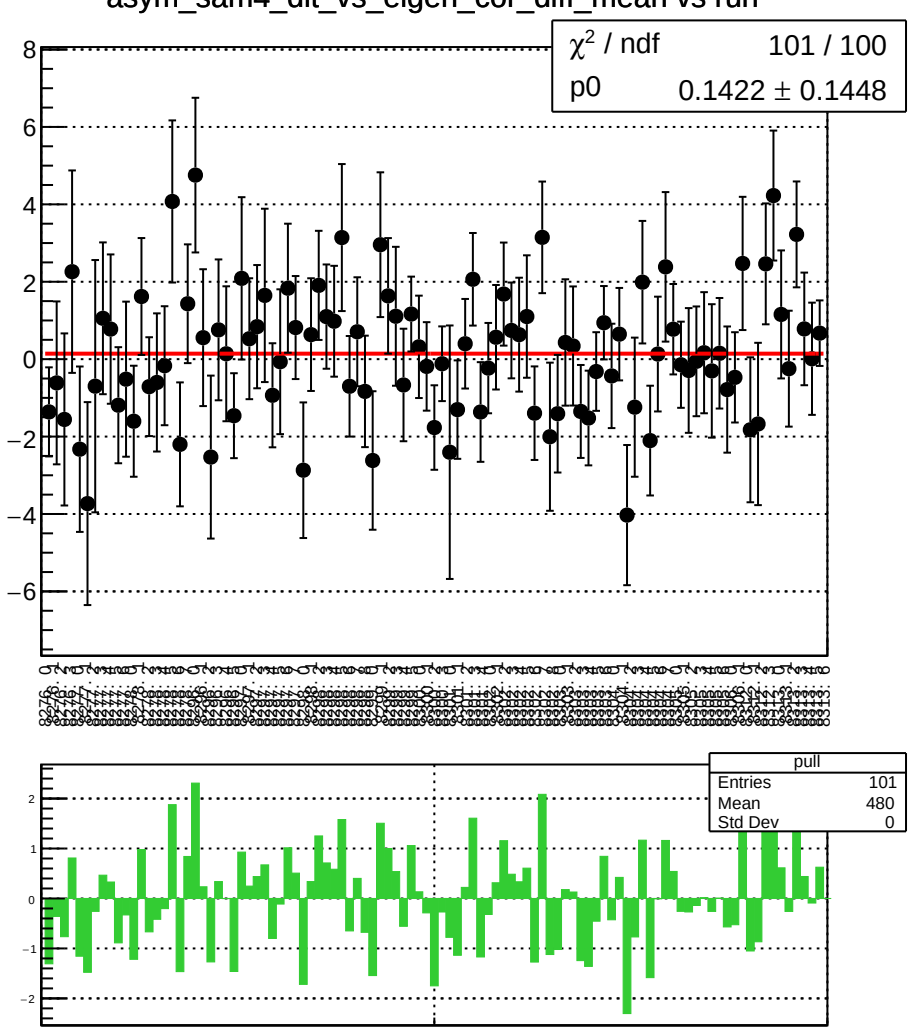

asym_sam4_rms vs run
χ² / ndf 1.039e+04 / 100
p0 4412 ± 3.187
6000
5500
5000
4500
4000

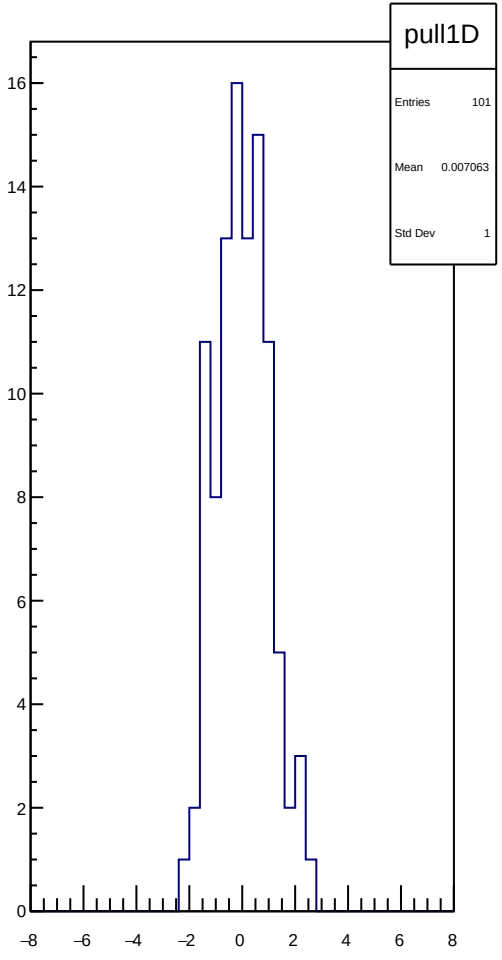

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 121.1 / 100
p0 7.437e–15 ± 4.4e–13
0.003
0.002
0.001
0
–0.001
–0.002
–0.003
pull
Entries 101
Mean 122.2
Std Dev 0
pull1D
Entries 101
Mean 0.01285
Std Dev 1.095

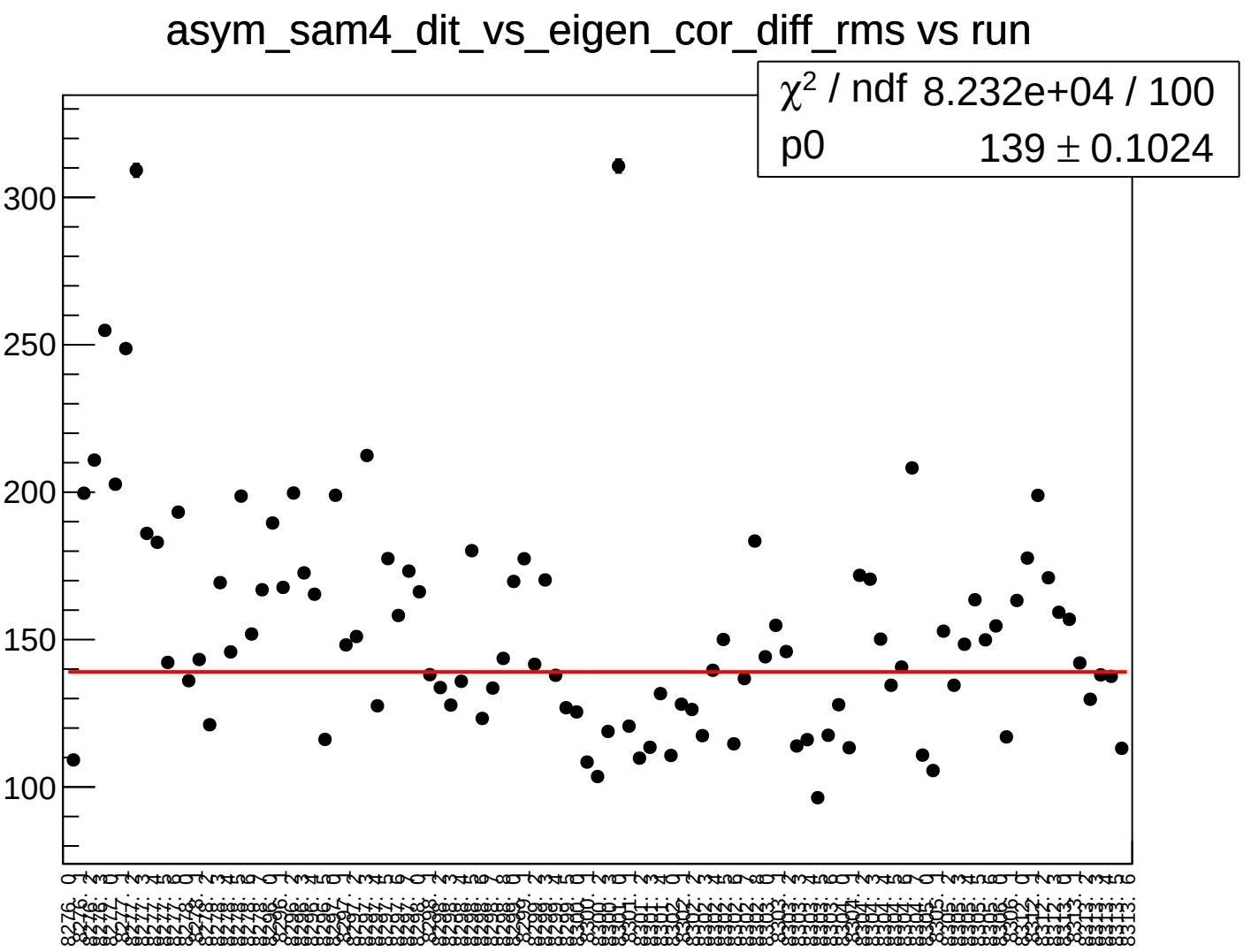

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 9.871e+05 / 100
p0 3.017e−10 ± 3.111e−13
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

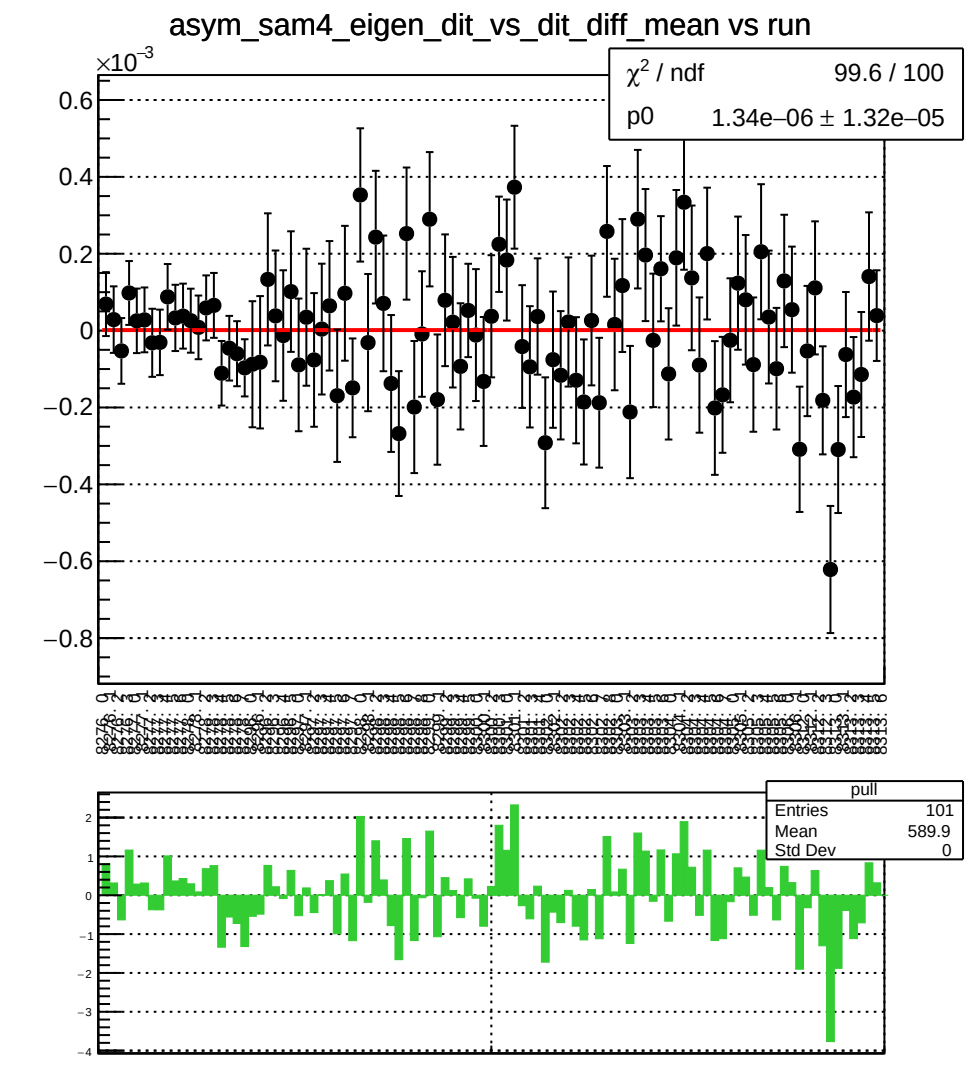

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 101 / 100
p0 0.1422 ± 0.1448
pull
Entries 101
Mean 480
Std Dev 0
pull1D
Entries 101
Mean 0.007063
Std Dev 1

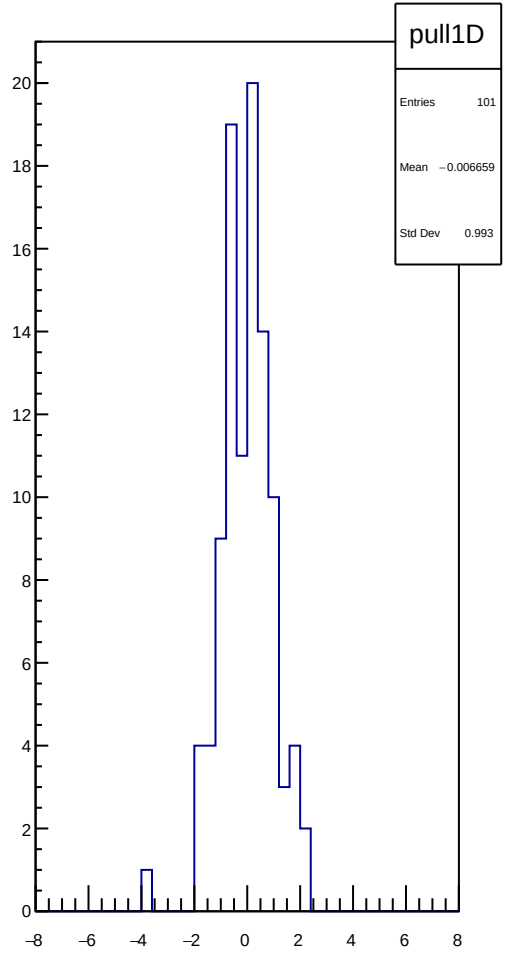

asym_sam4_dit_vs_cor_diff_rms vs run
χ² / ndf 8.232e+04 / 100
p0 139 ± 0.1024
300
250
200
150
100

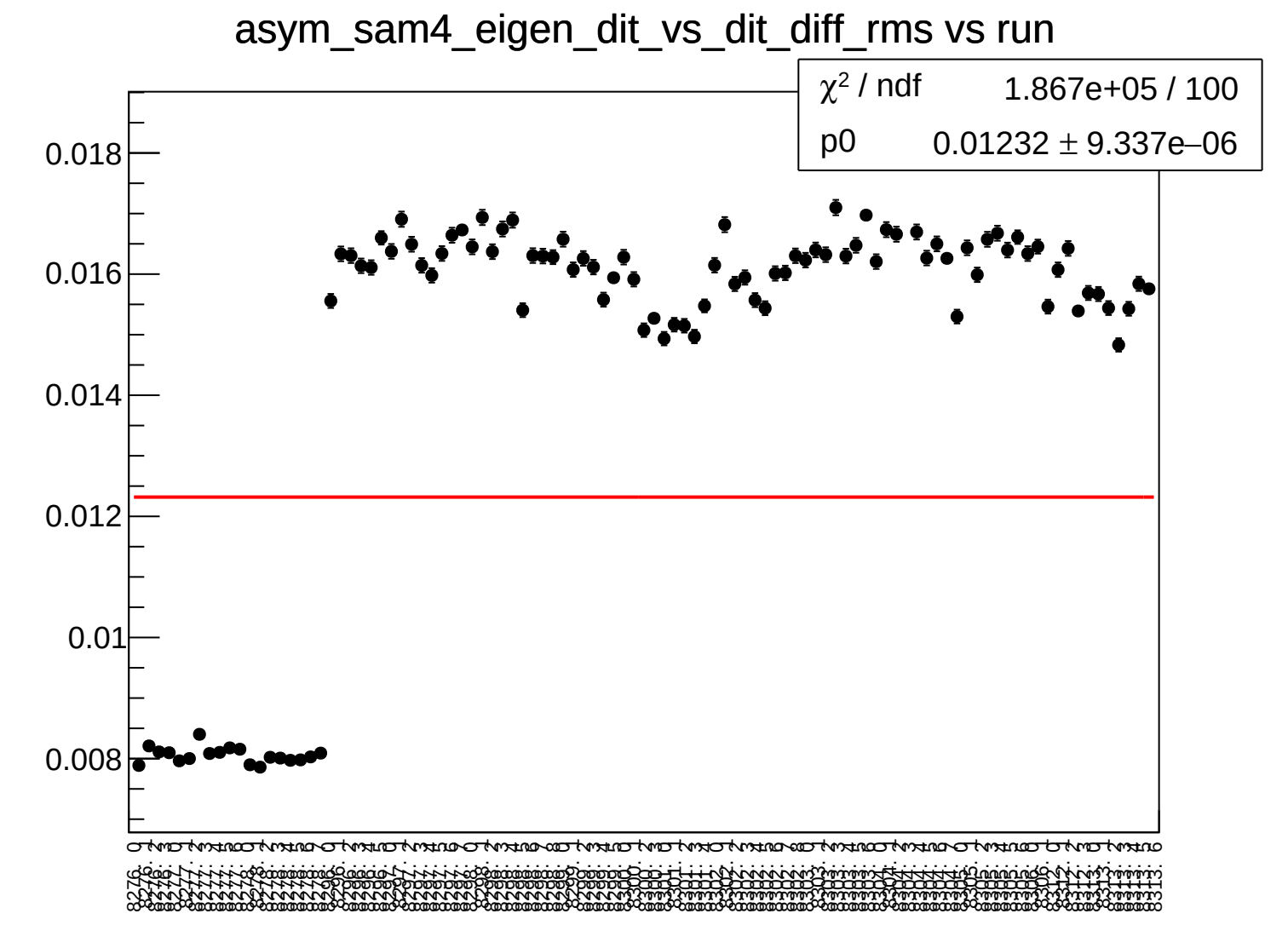

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101 / 100
p0 0.1422 ± 0.1448
pull
Entries 101
Mean 480
Std Dev 0

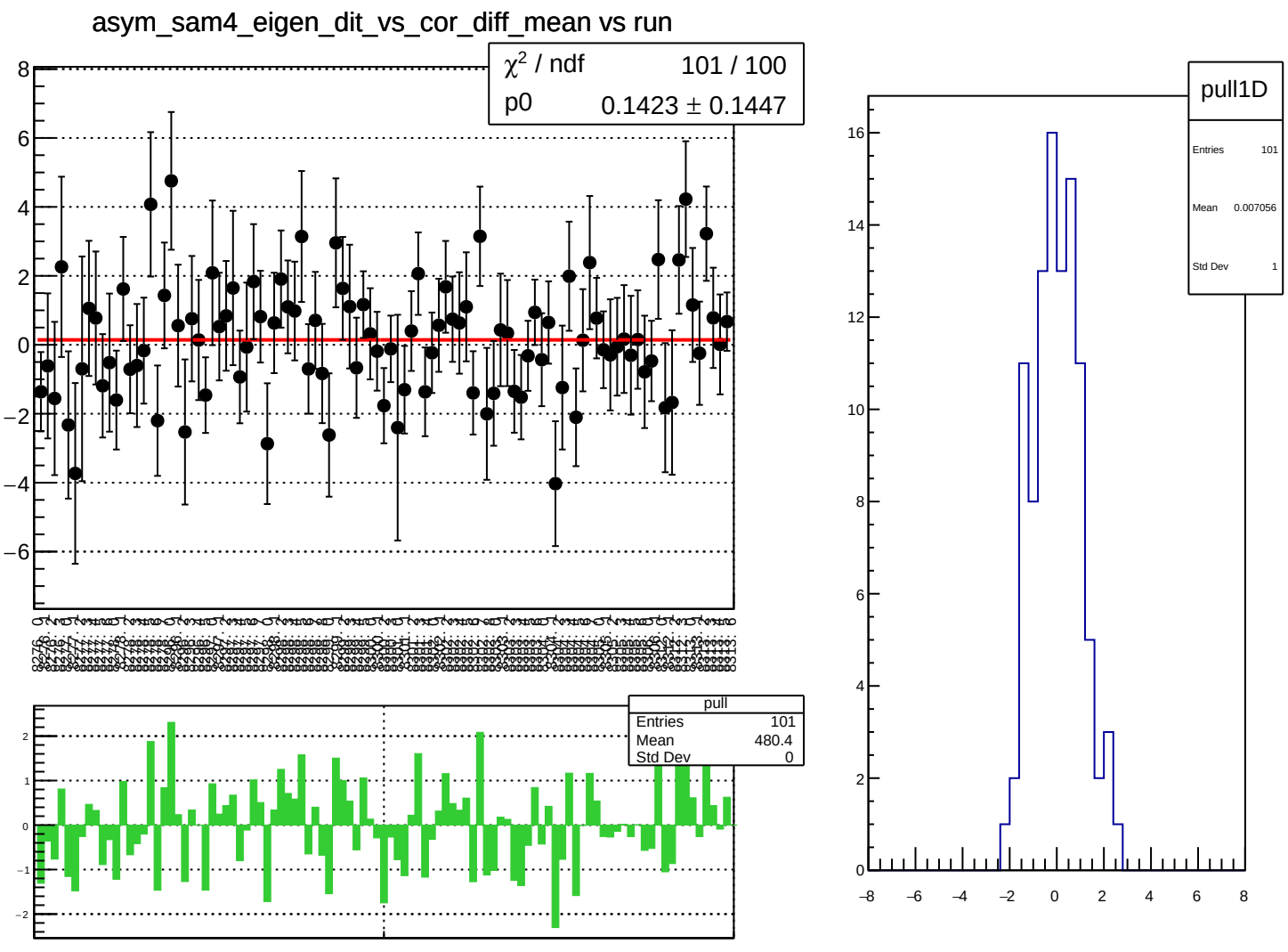

pull1D
Entries 101
Mean 0.007063
Std Dev 1

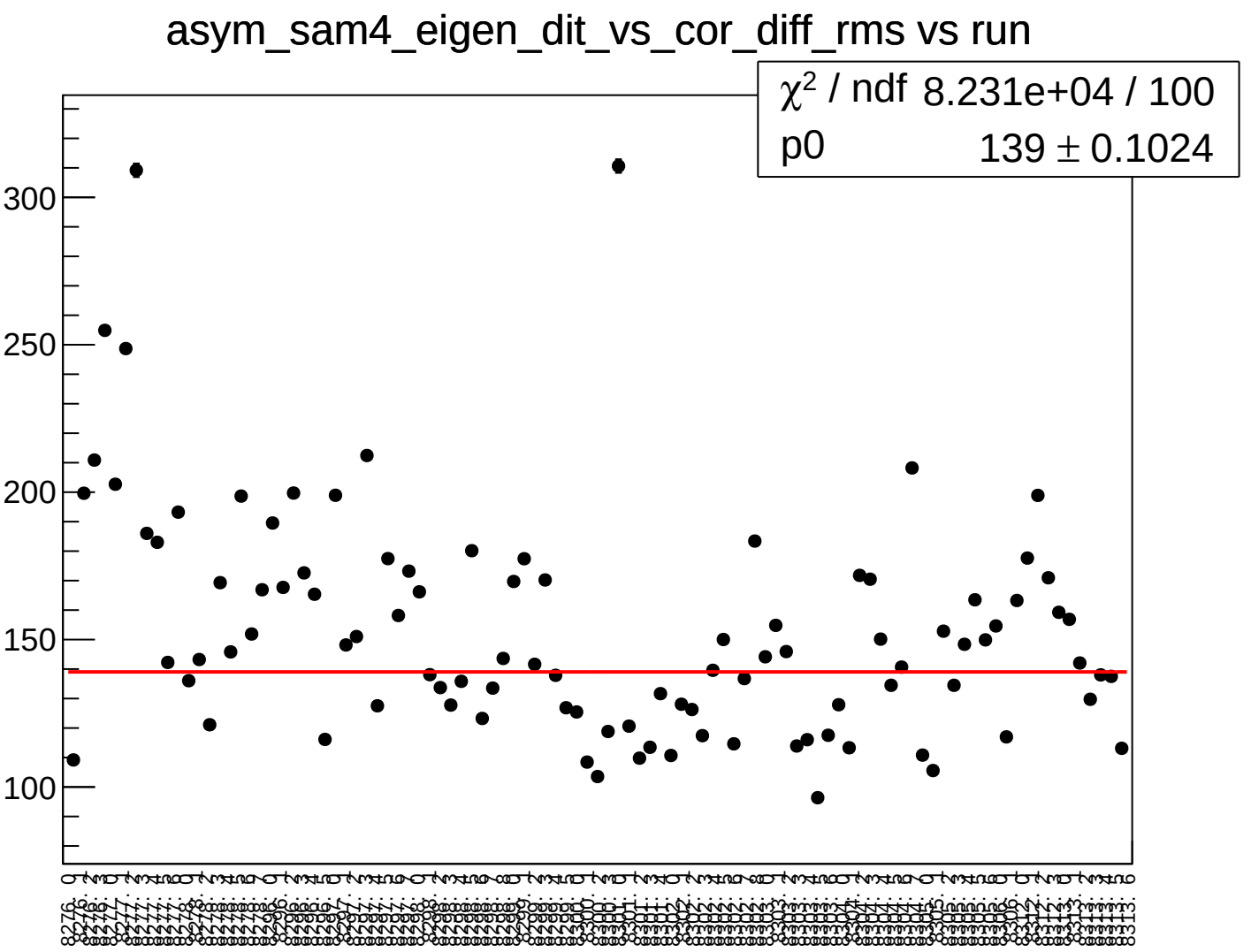

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.232e+04 / 100
p0 139 ± 0.1024
300
250
200
150
100

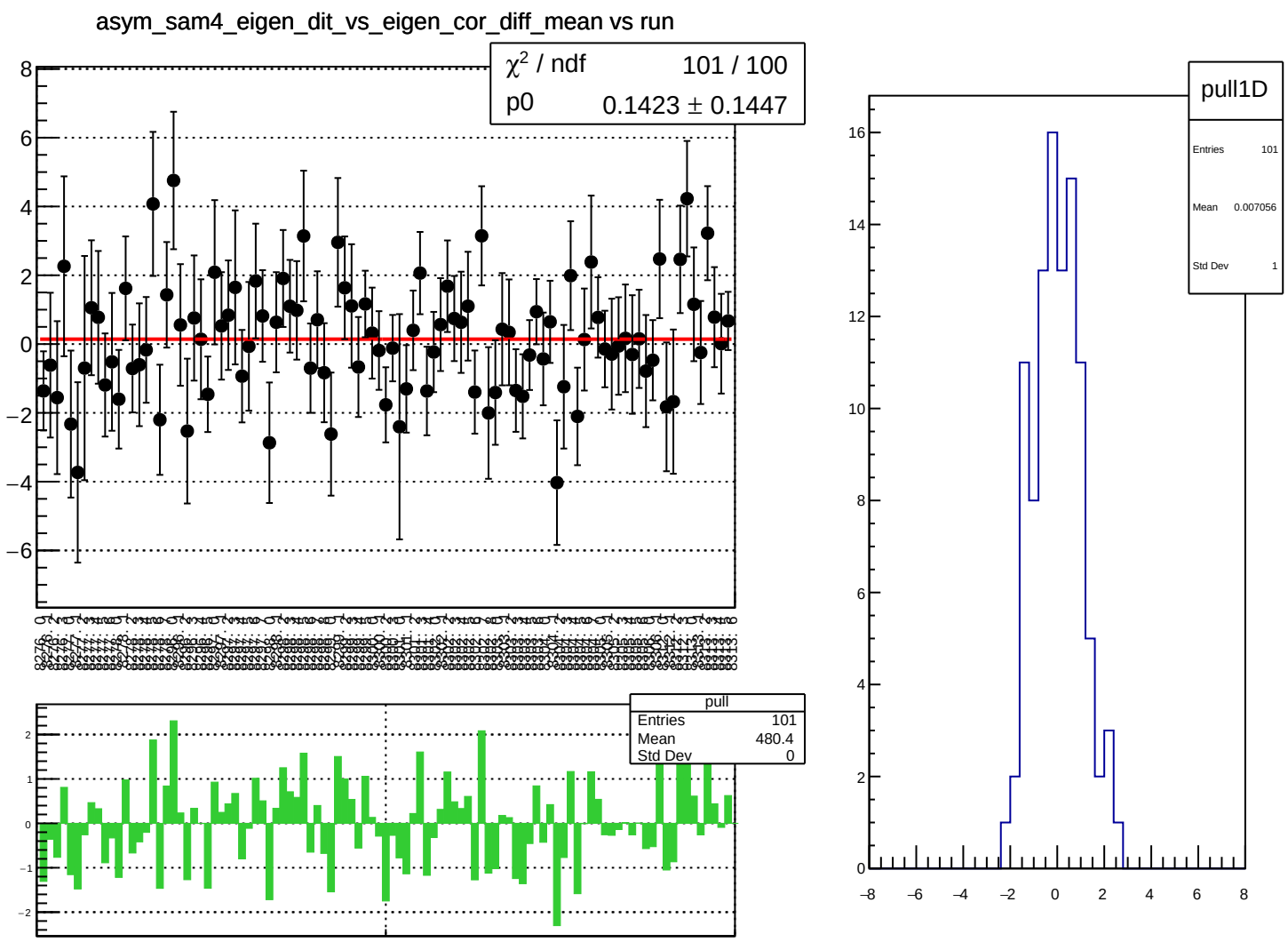

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10−3
χ2 / ndf 99.6 / 100
p0 1.34e−06 ± 1.32e−05
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull
Entries 101
Mean 589.9
Std Dev 0
2
1
0
−1
−2
−3
−4

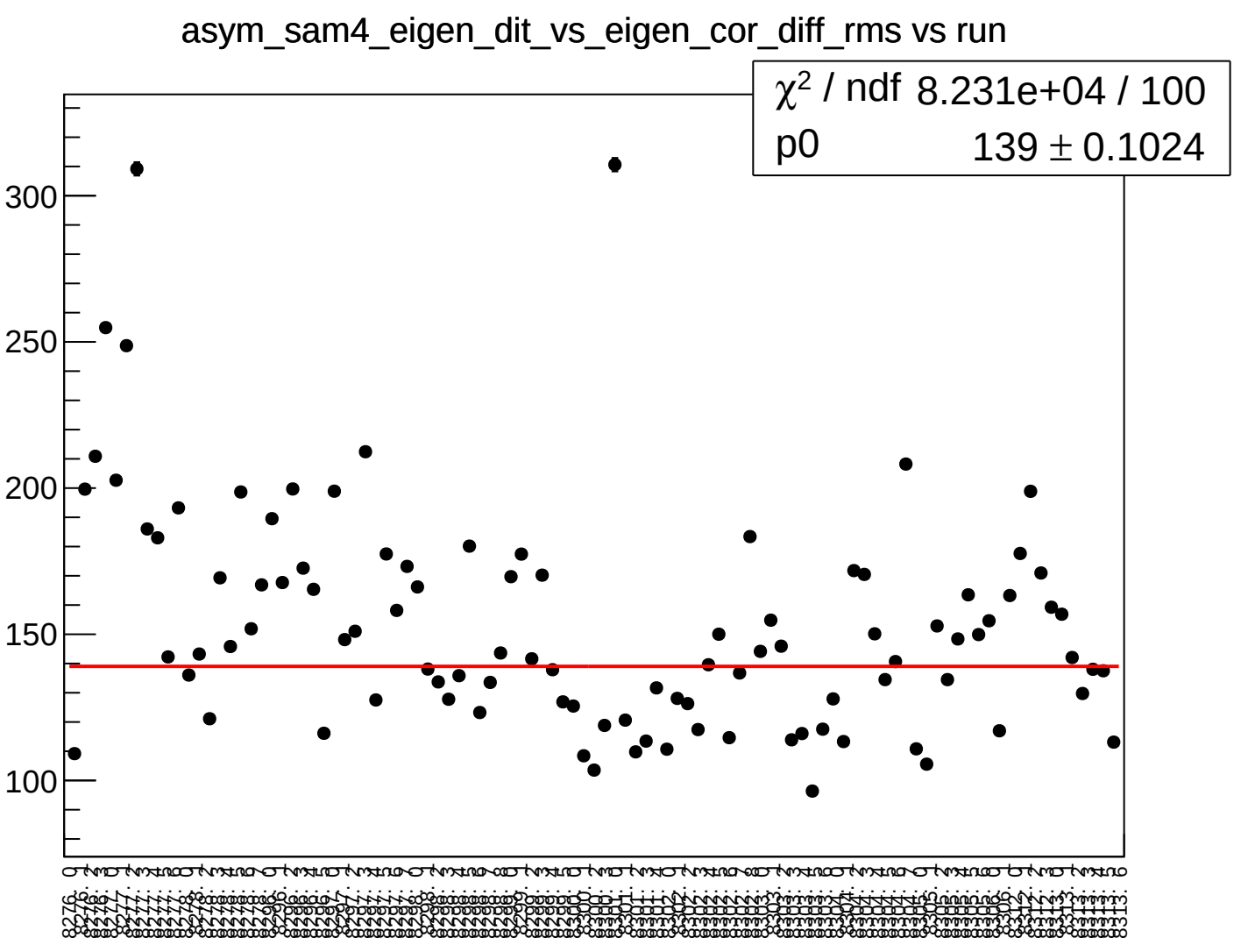

pull1D
Entries 101
Mean −0.006659
Std Dev 0.993
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

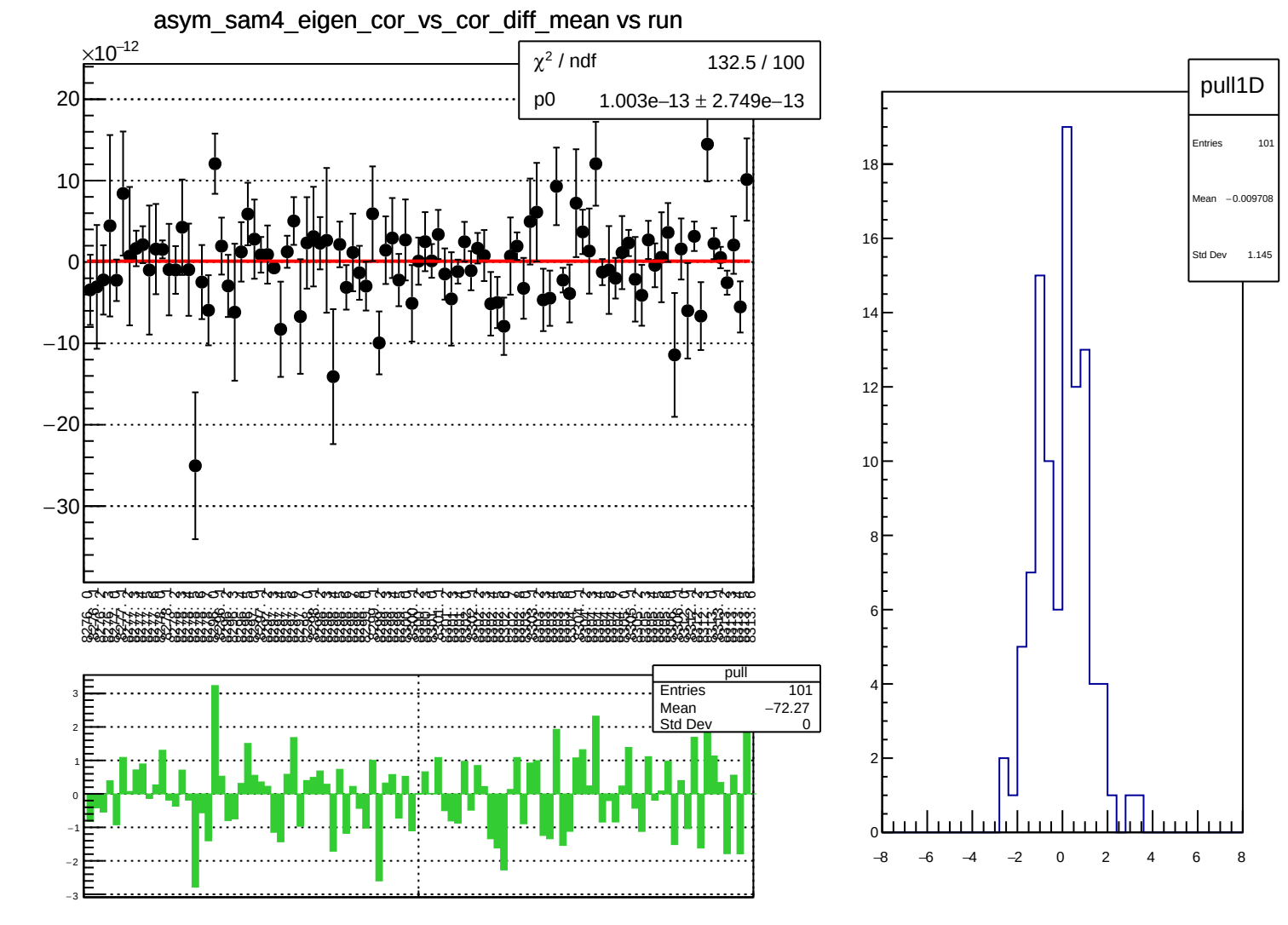

asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.867e+05 / 100
p0 0.01232 ± 9.337e–06
0.018
0.016
0.014
0.012
0.01
0.008

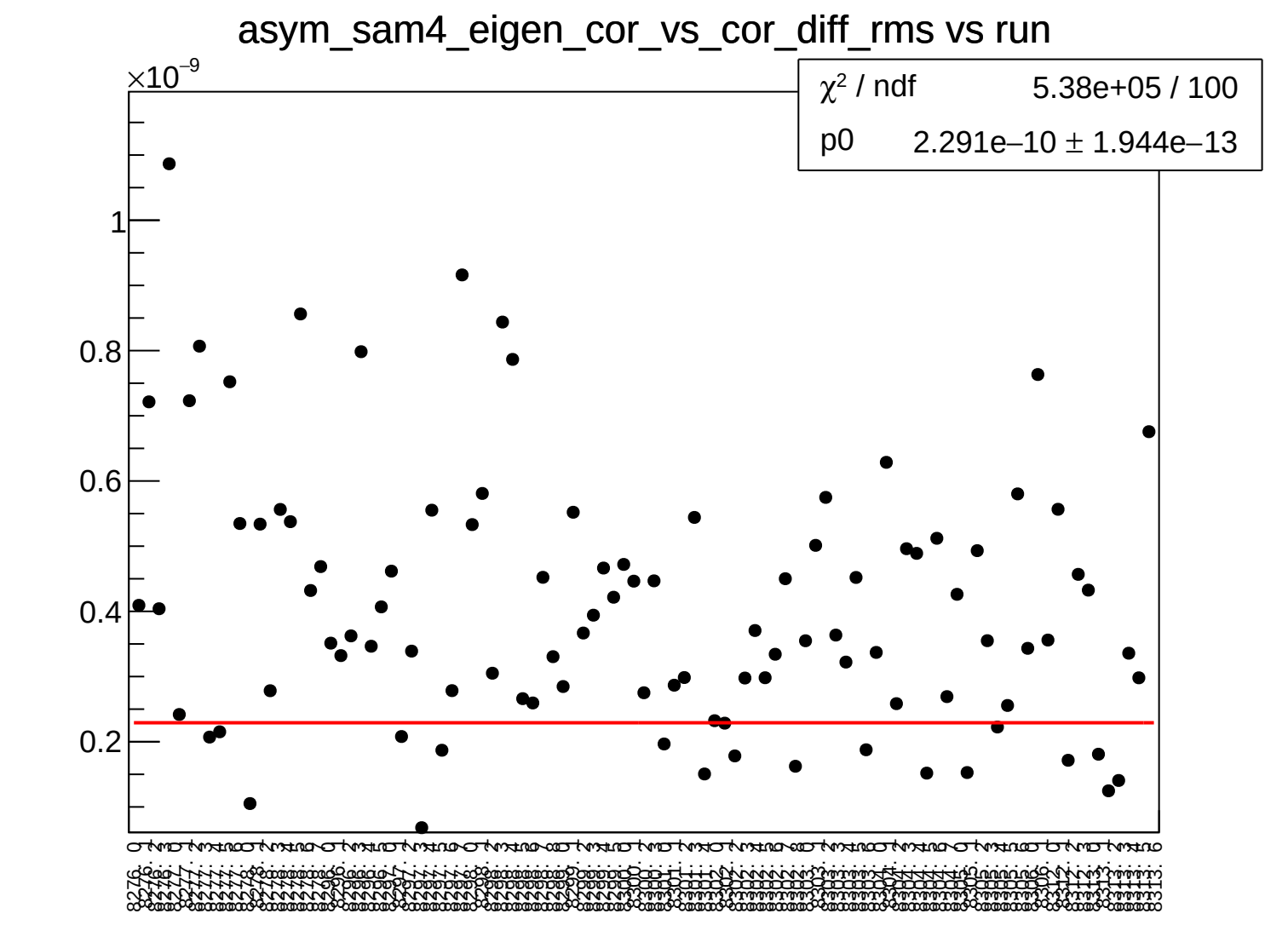

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101 / 100
p0 0.1423 ± 0.1447
pull
Entries 101
Mean 480.4
Std Dev 0
pull1D
Entries 101
Mean 0.007056
Std Dev 1

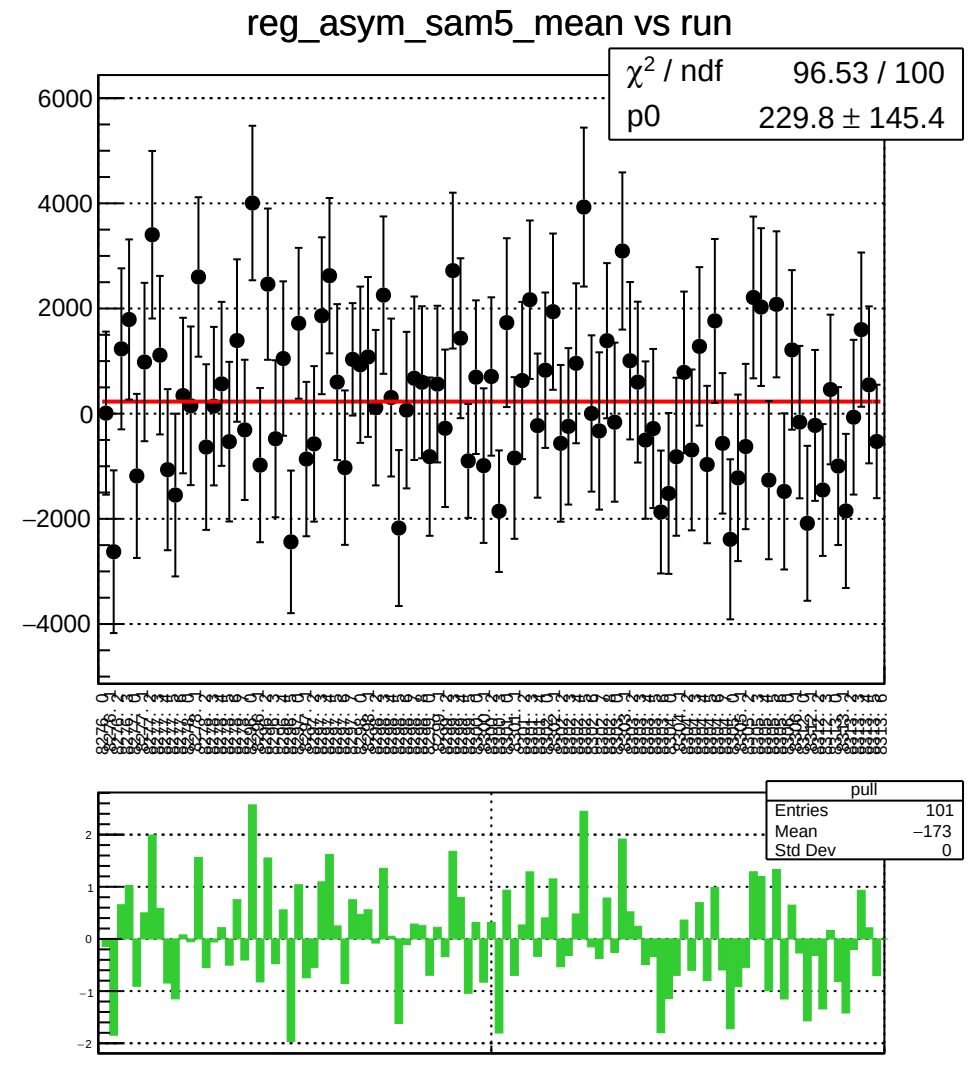

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.231e+04 / 100
p0 139 ± 0.1024
300
250
200
150
100

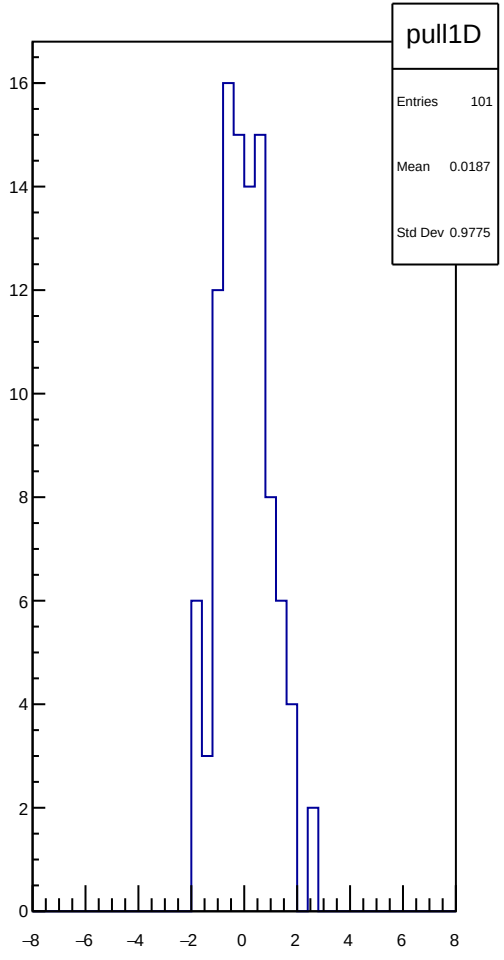

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101 / 100
p0 0.1423 ± 0.1447
pull
Entries 101
Mean 480.4
Std Dev 0
pull1D
Entries 101
Mean 0.007056
Std Dev 1

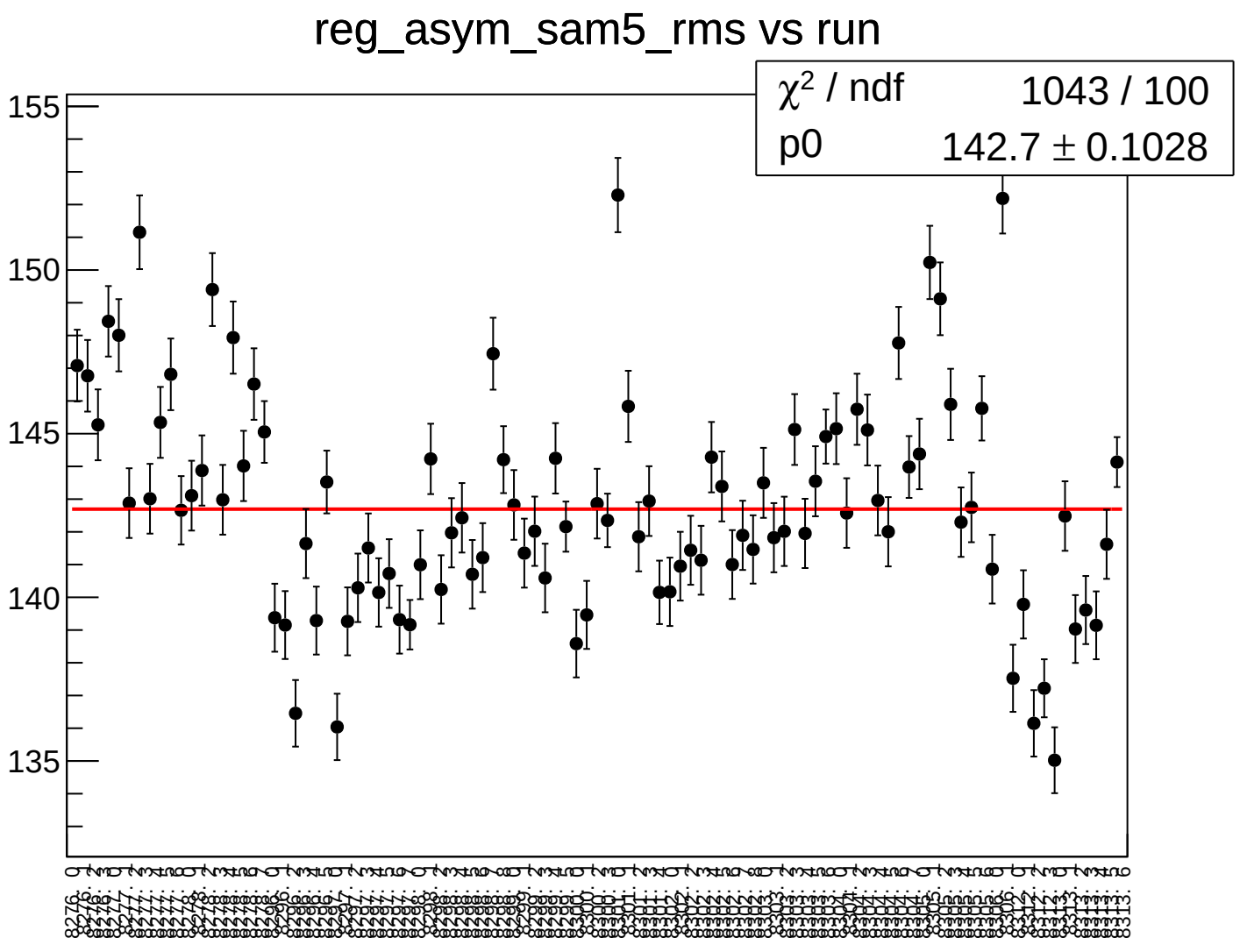

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.231e+04 / 100
p0 139 ± 0.1024
300
250
200
150
100

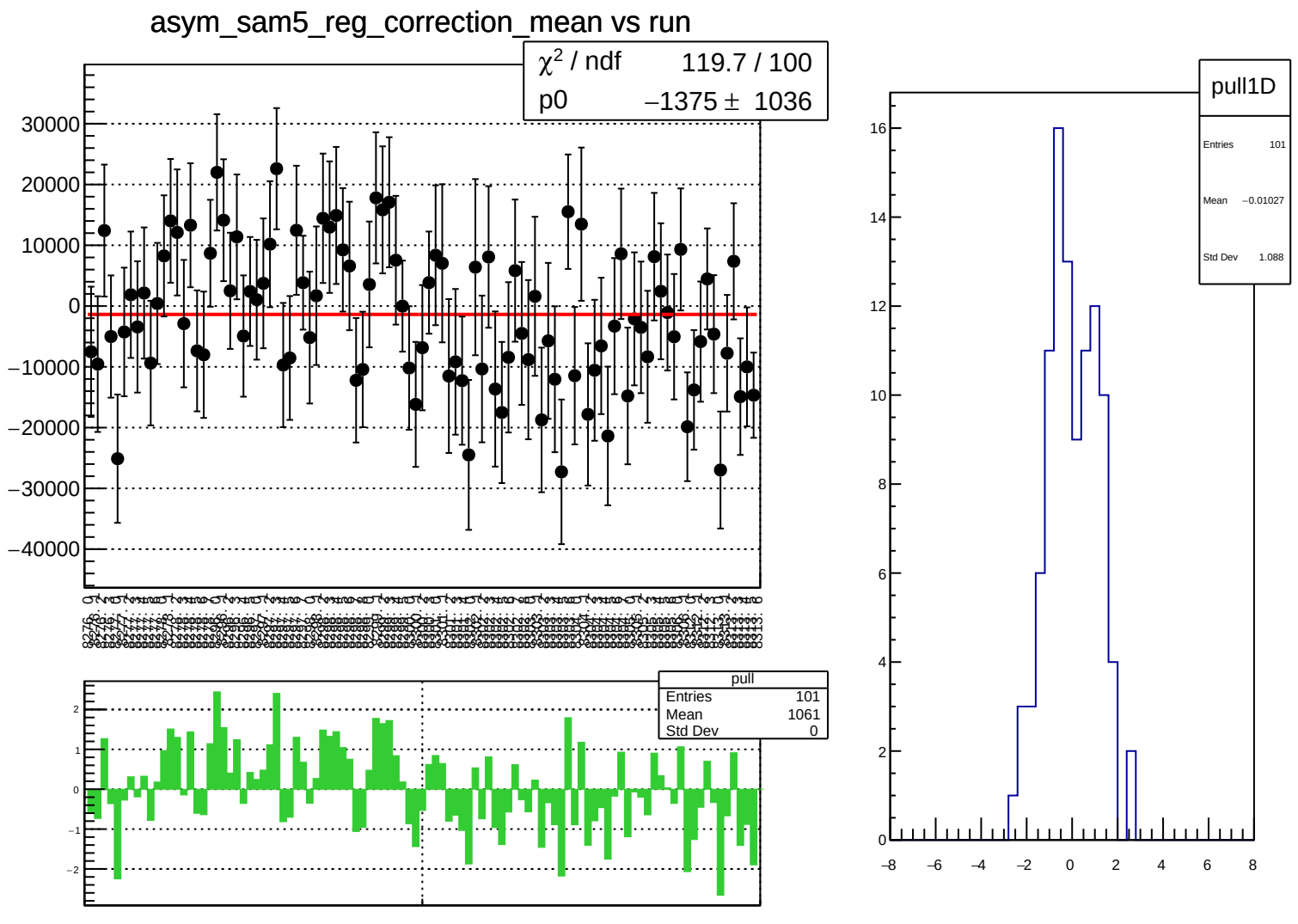

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 132.5 / 100
p0 1.003e−13 ± 2.749e−13
20
10
0
−10
−20
−30
pull
Entries 101
Mean −72.27
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean −0.009708
Std Dev 1.145
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

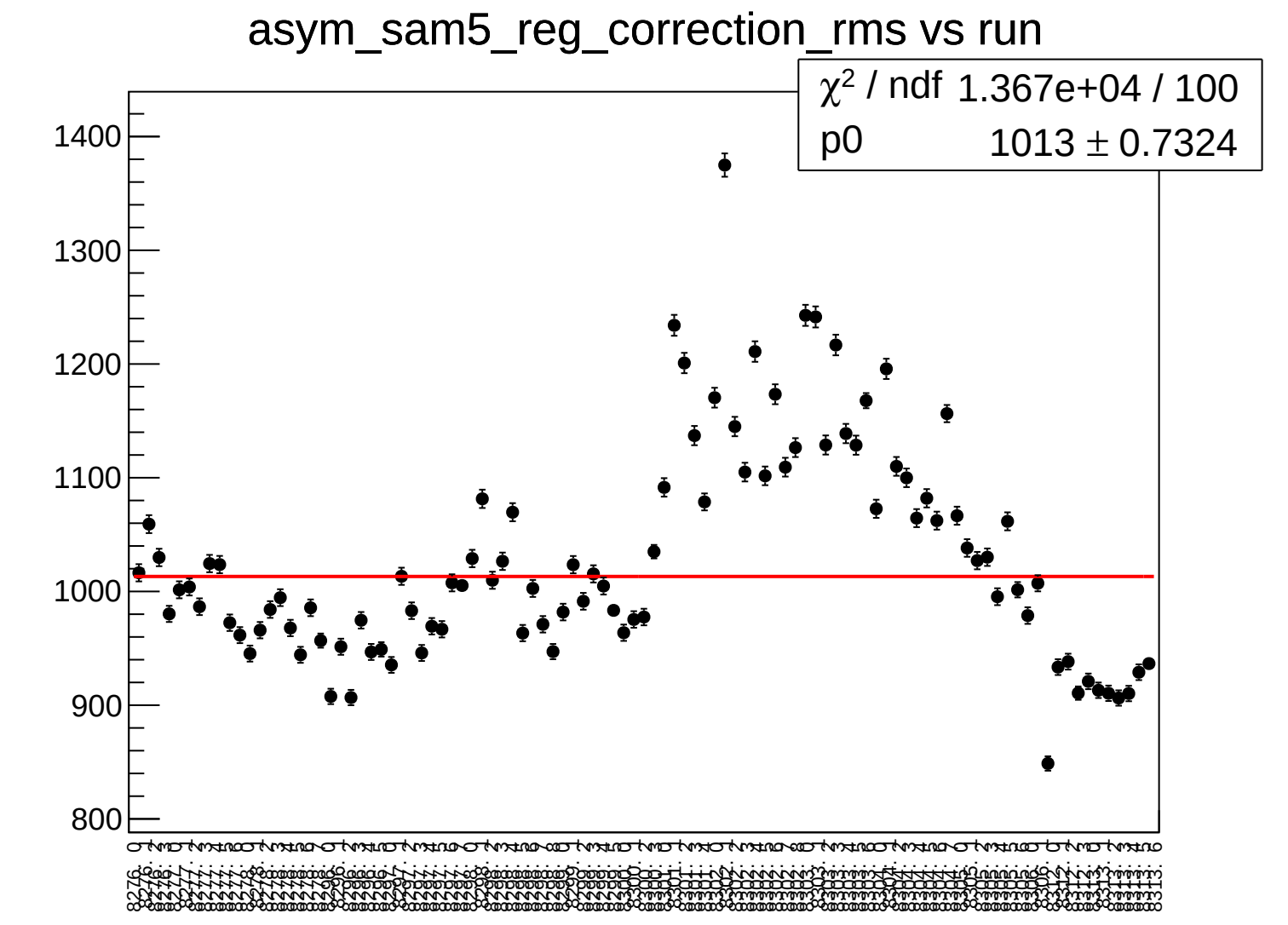

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.38e+05 / 100
p0 2.291e−10 ± 1.944e−13
1
0.8
0.6
0.4
0.2

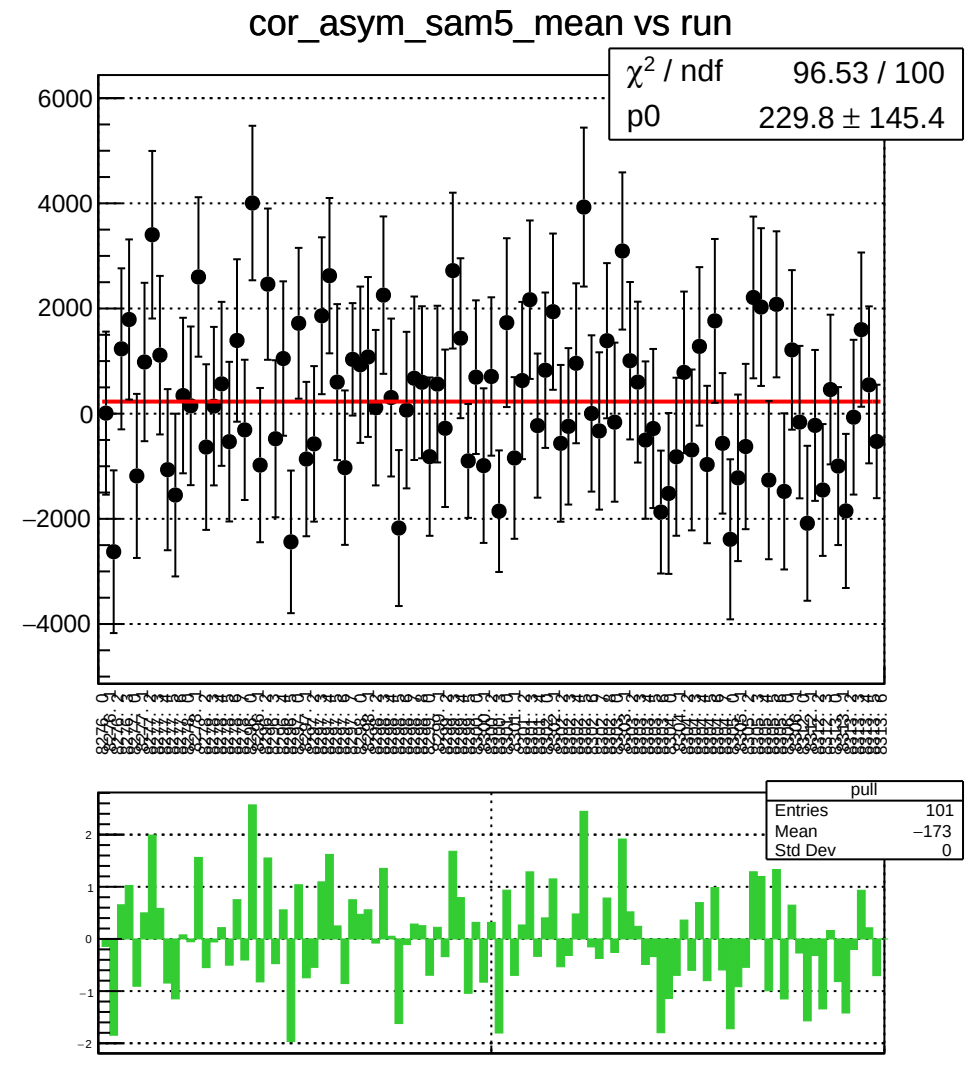

reg_asym_sam5_mean vs run
χ² / ndf 96.53 / 100
p0 229.8 ± 145.4
6000
4000
2000
0
−2000
−4000
pull
Entries 101
Mean −173
Std Dev 0
2
1
0
−1
−2

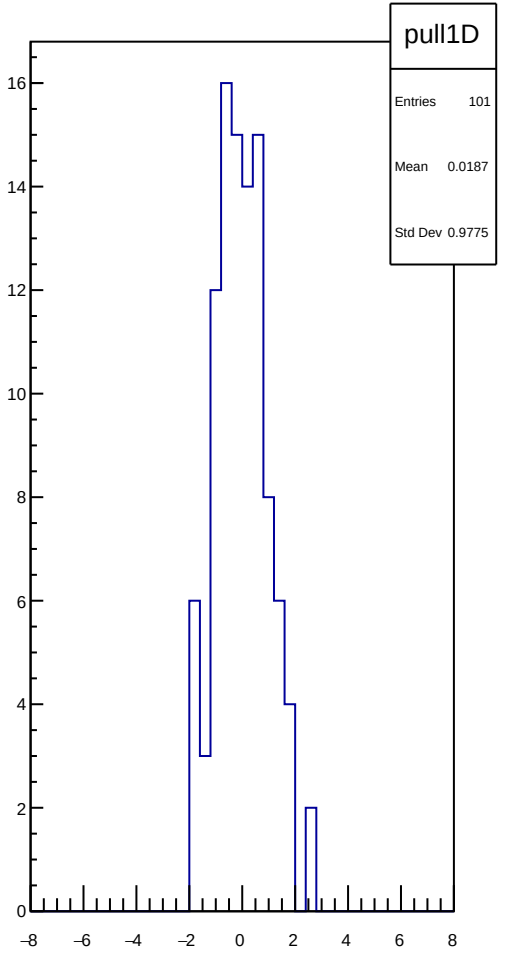

pull1D
Entries 101
Mean 0.0187
Std Dev 0.9775
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam5_rms vs run
χ² / ndf 1043 / 100
p0 142.7 ± 0.1028
155
150
145
140
135


asym_sam5_reg_correction_mean vs run
χ² / ndf 119.7 / 100
p0 −1375 ± 1036
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 101
Mean 1061
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.01027
Std Dev 1.088
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam5_reg_correction_rms vs run
χ² / ndf 1.367e+04 / 100
p0 1013 ± 0.7324
1400
1300
1200
1100
1000
900
800


cor_asym_sam5_mean vs run
χ² / ndf 96.53 / 100
p0 229.8 ± 145.4
6000
4000
2000
0
−2000
−4000
pull
Entries 101
Mean −173
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 101
Mean 0.0187
Std Dev 0.9775
16
14
12
10
8
6
4
2
0
−8
−6
−4
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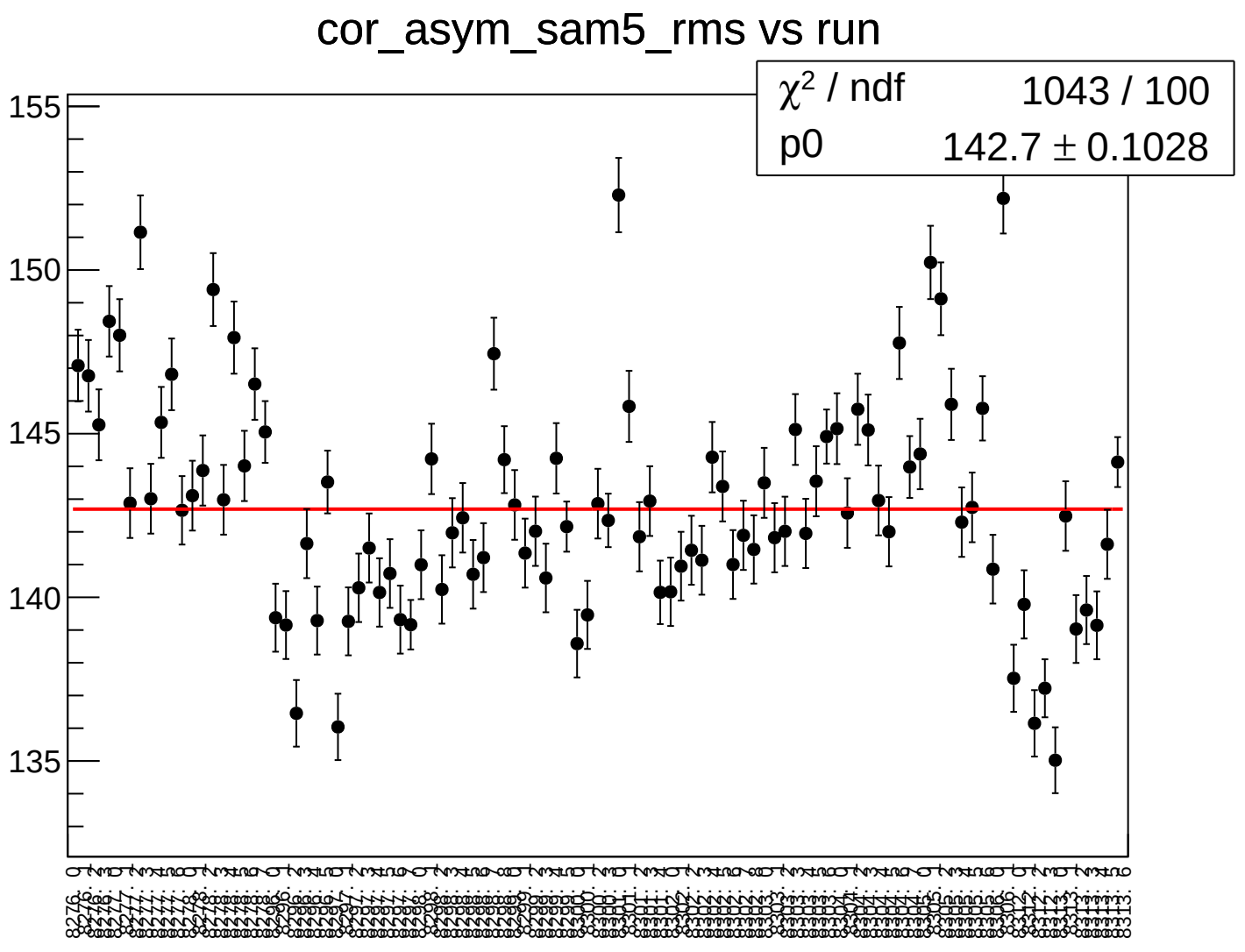
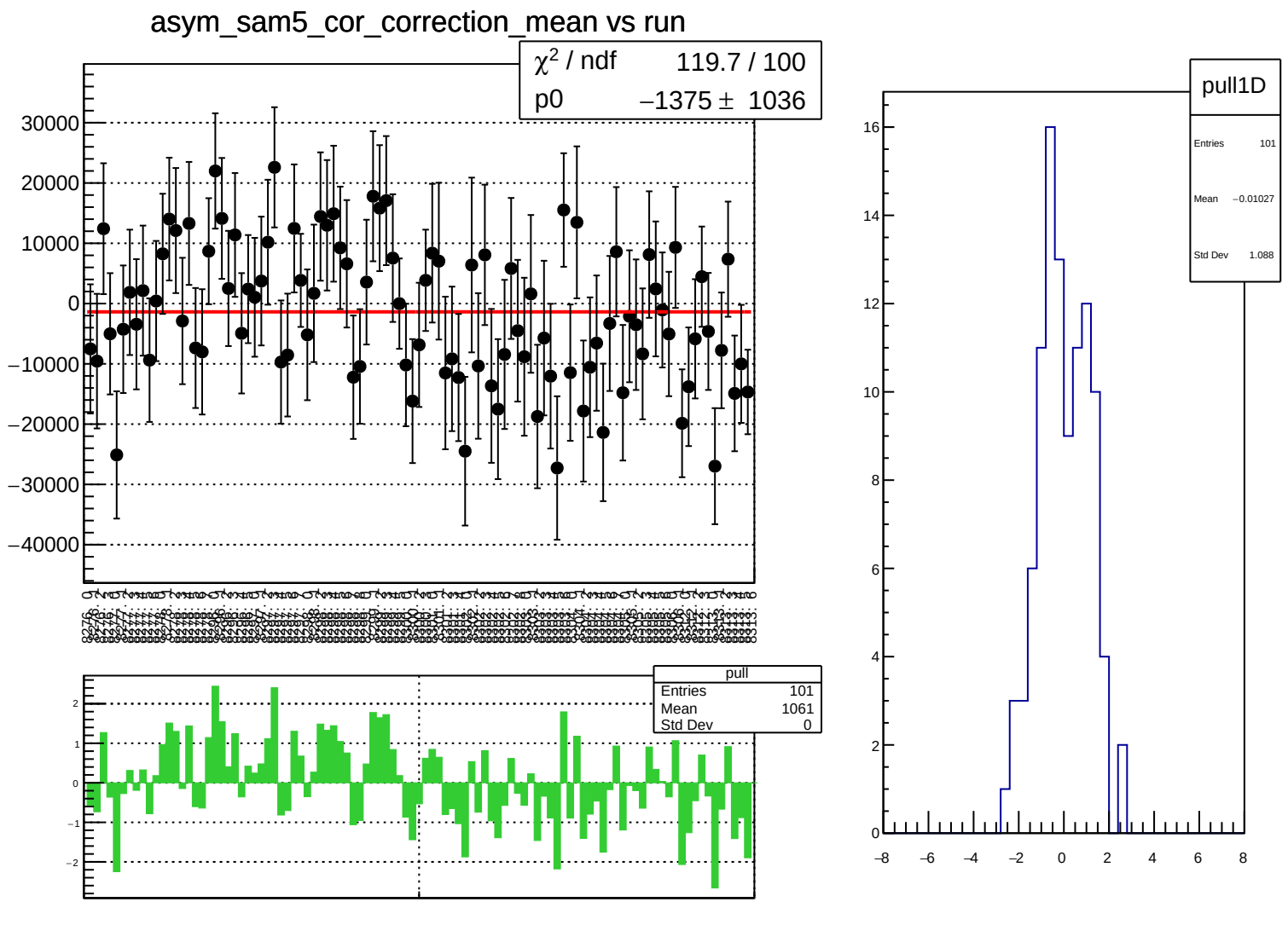
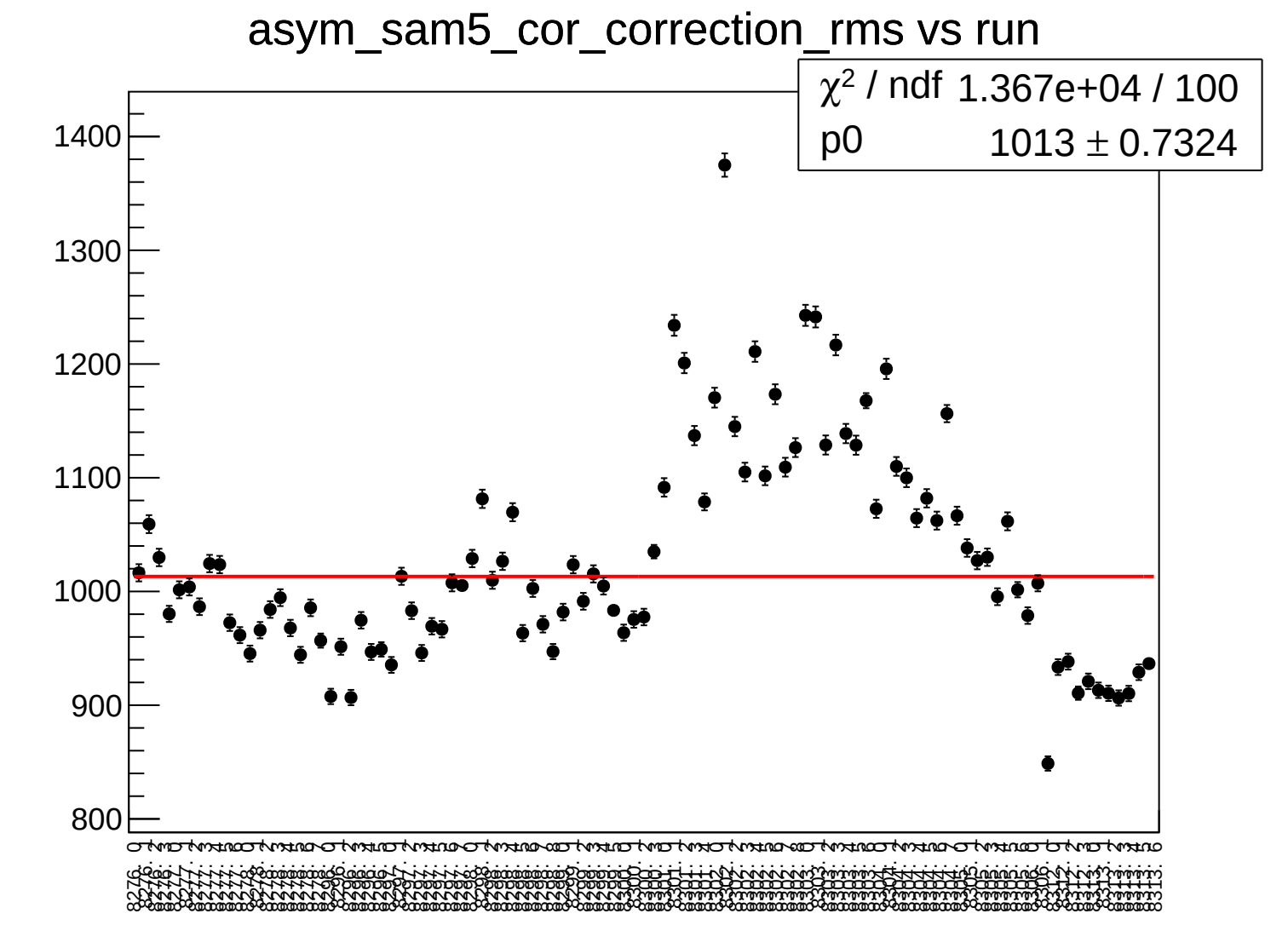
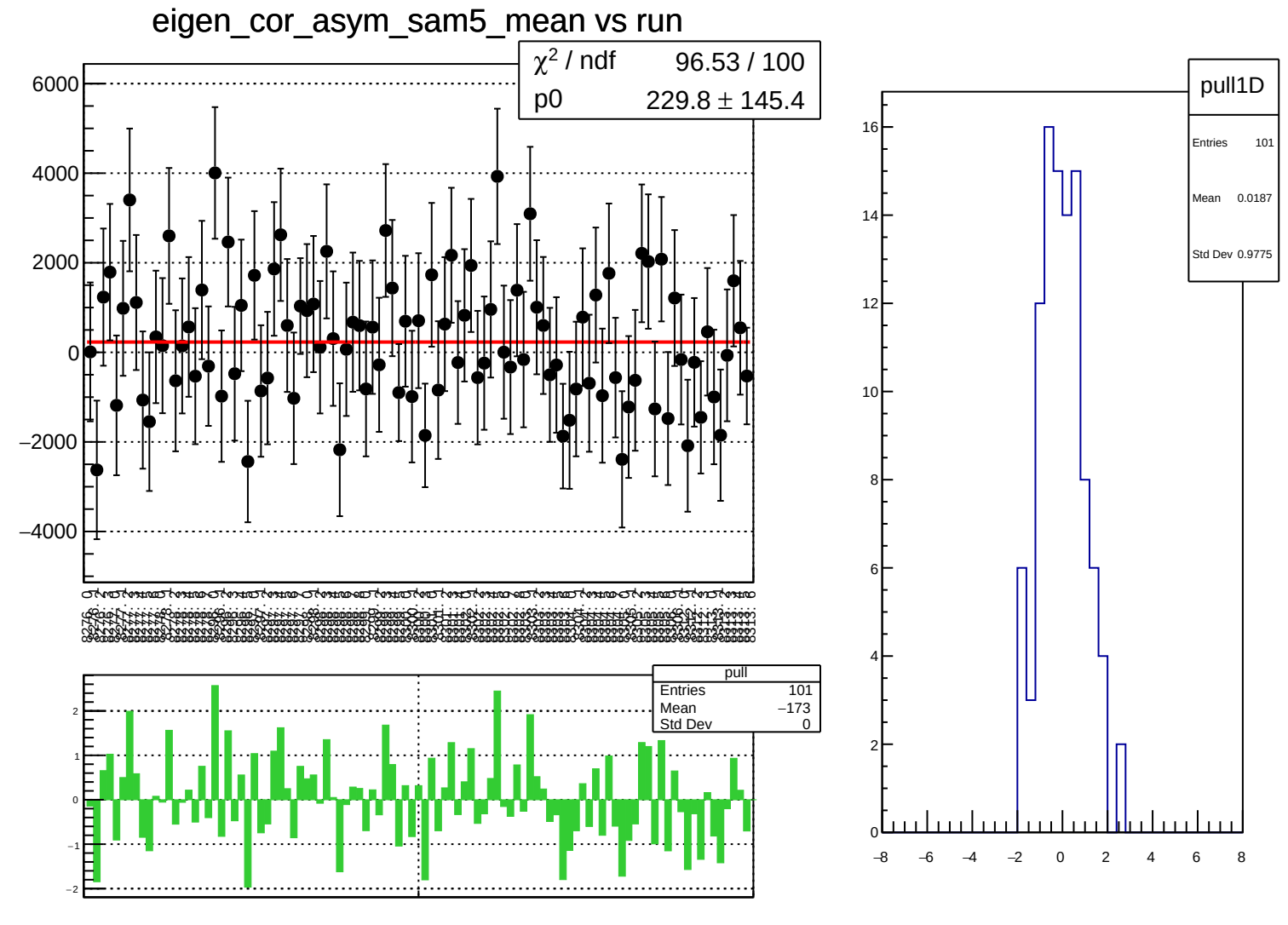
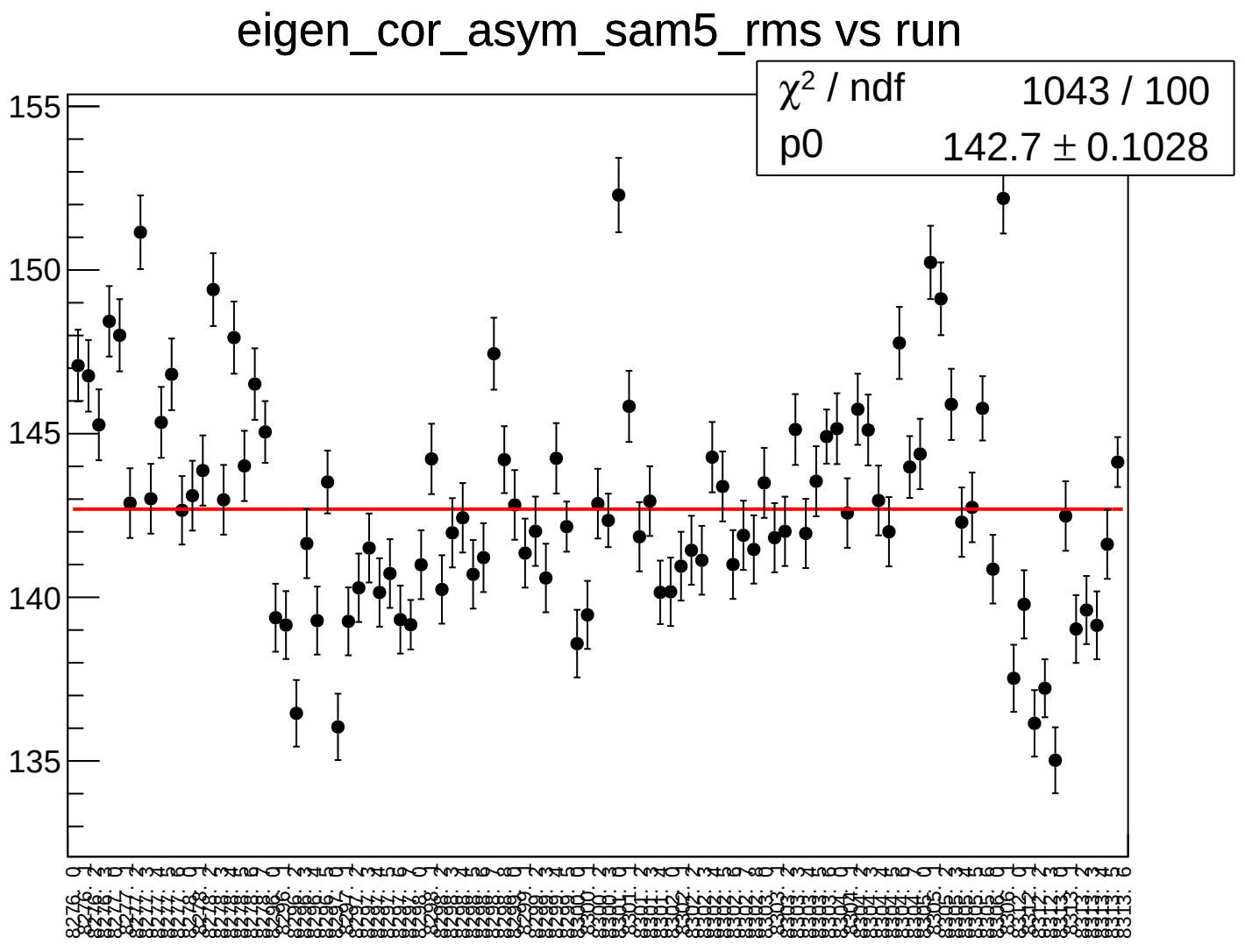
2
4
6
8

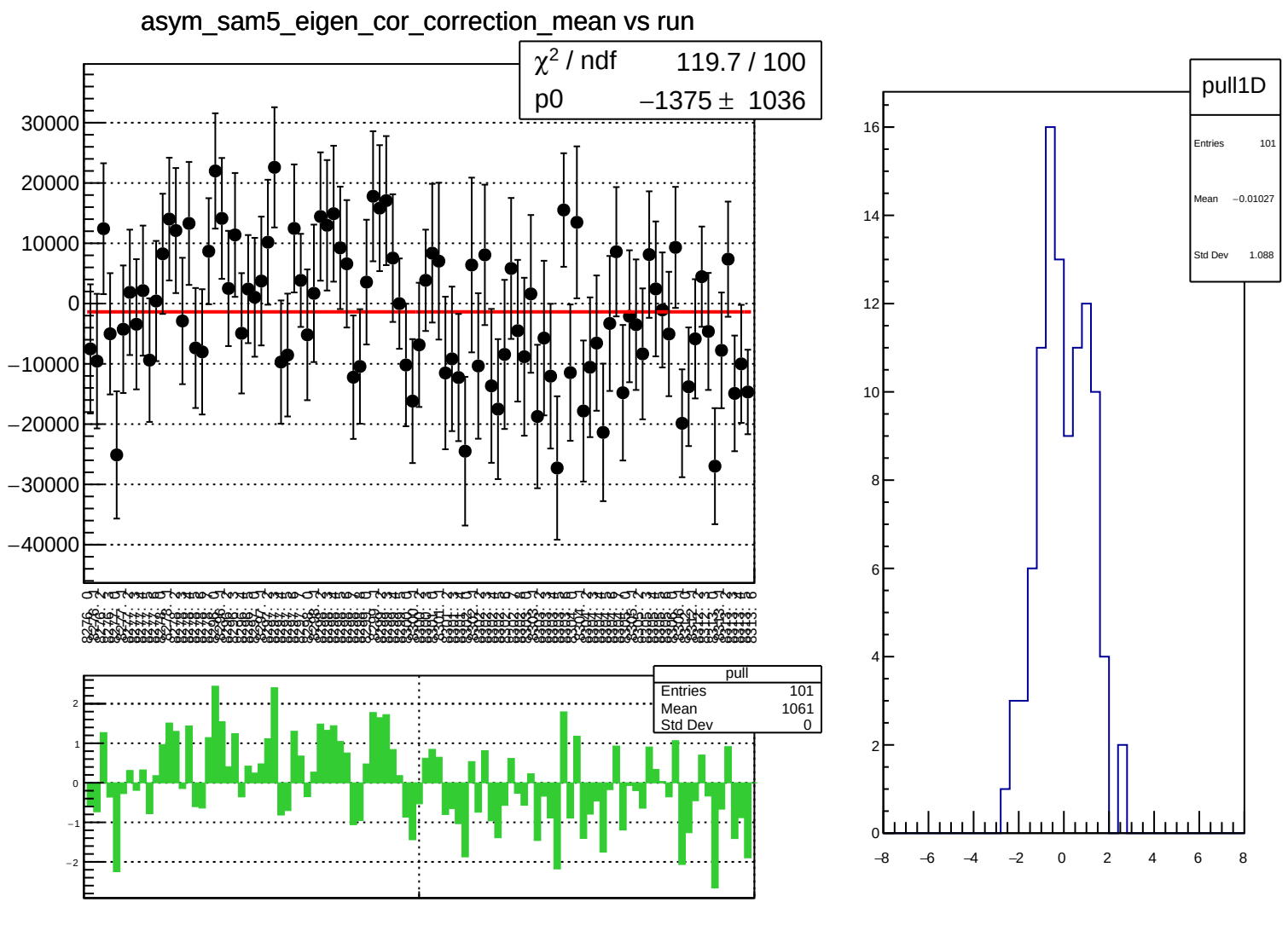

cor_asym_sam5_rms vs run
χ² / ndf 1043 / 100
p0 142.7 ± 0.1028
155
150
145
140
135

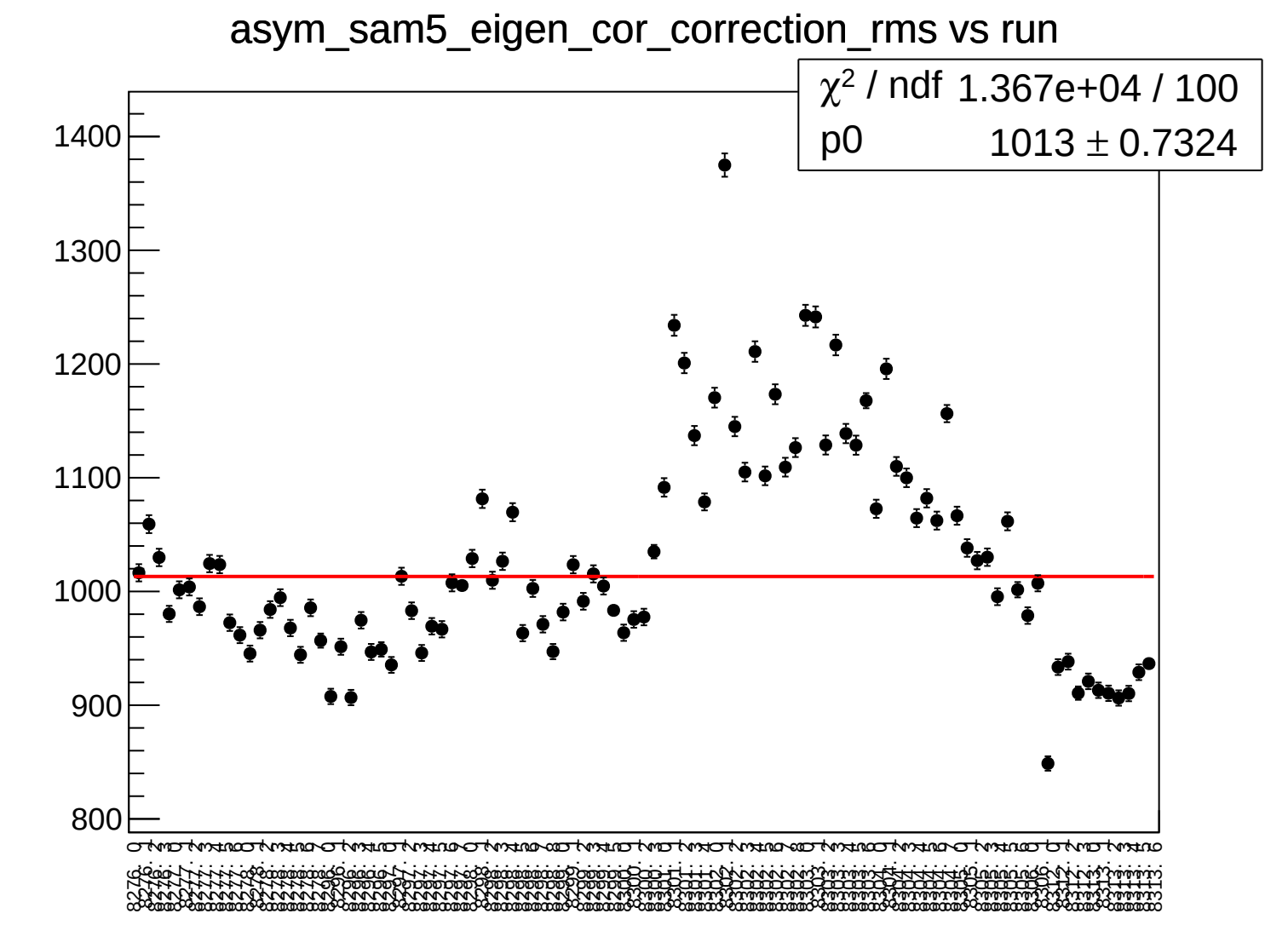

asym_sam5_cor_correction_mean vs run
χ² / ndf 119.7 / 100
p0 −1375 ± 1036
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 101
Mean 1061
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.01027
Std Dev 1.088
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

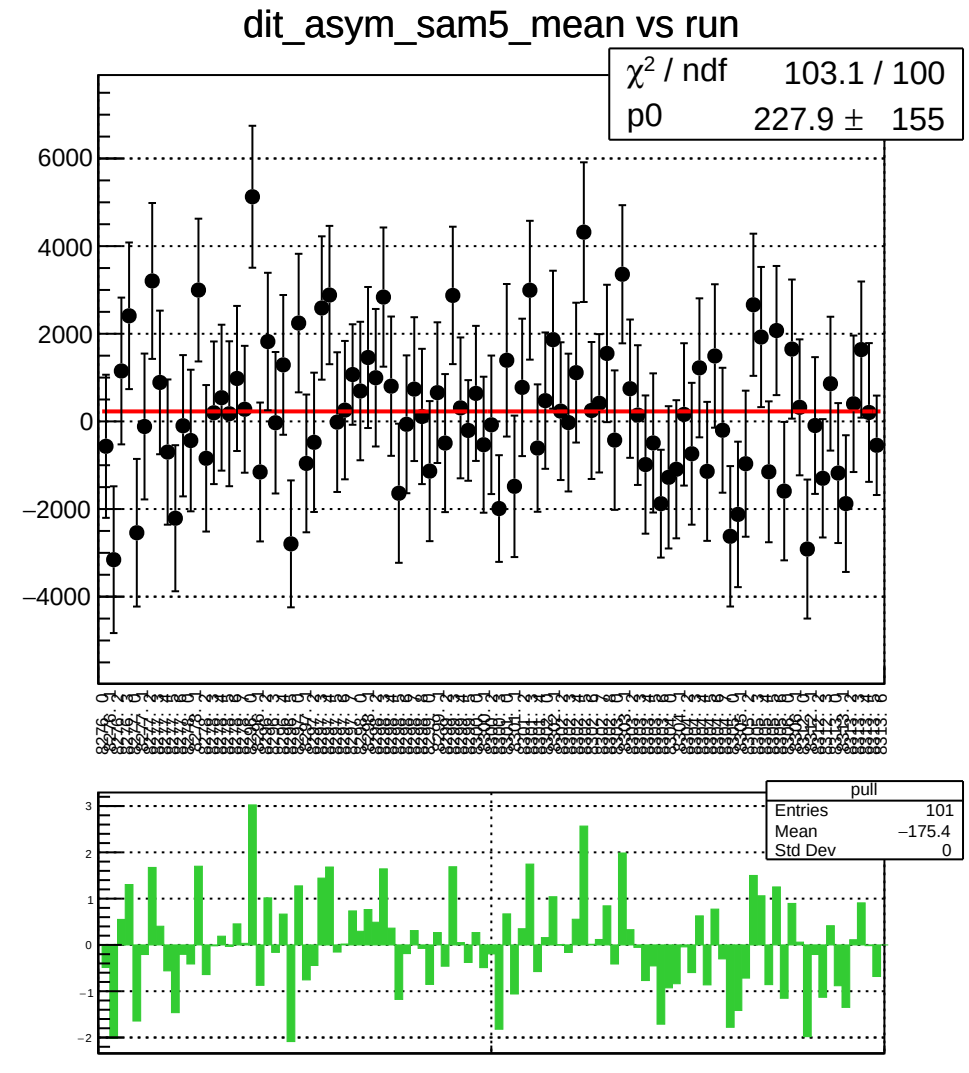

asym_sam5_cor_correction_rms vs run
χ² / ndf 1.367e+04 / 100
p0 1013 ± 0.7324
1400
1300
1200
1100
1000
900
800

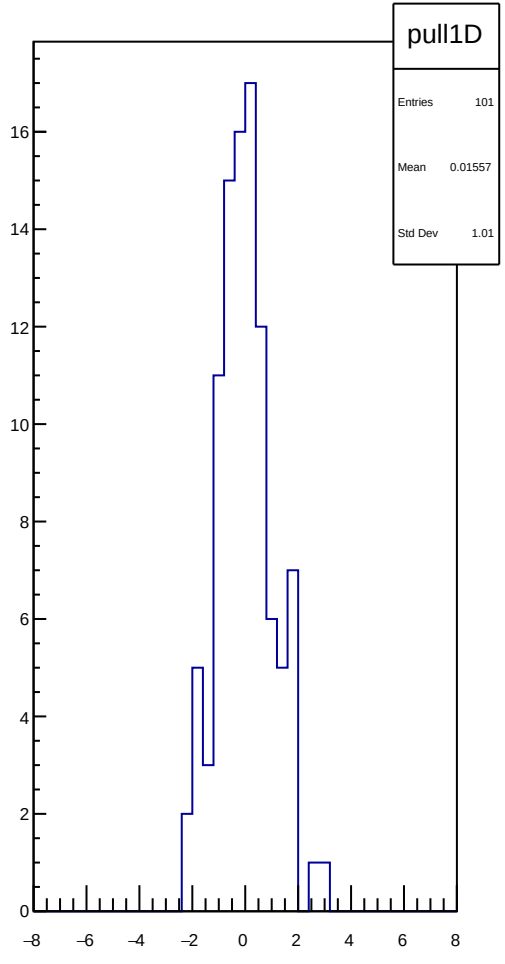

eigen_cor_asym_sam5_mean vs run
χ² / ndf 96.53 / 100
p0 229.8 ± 145.4
6000
4000
2000
0
−2000
−4000
pull
Entries 101
Mean −173
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.0187
Std Dev 0.9775
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

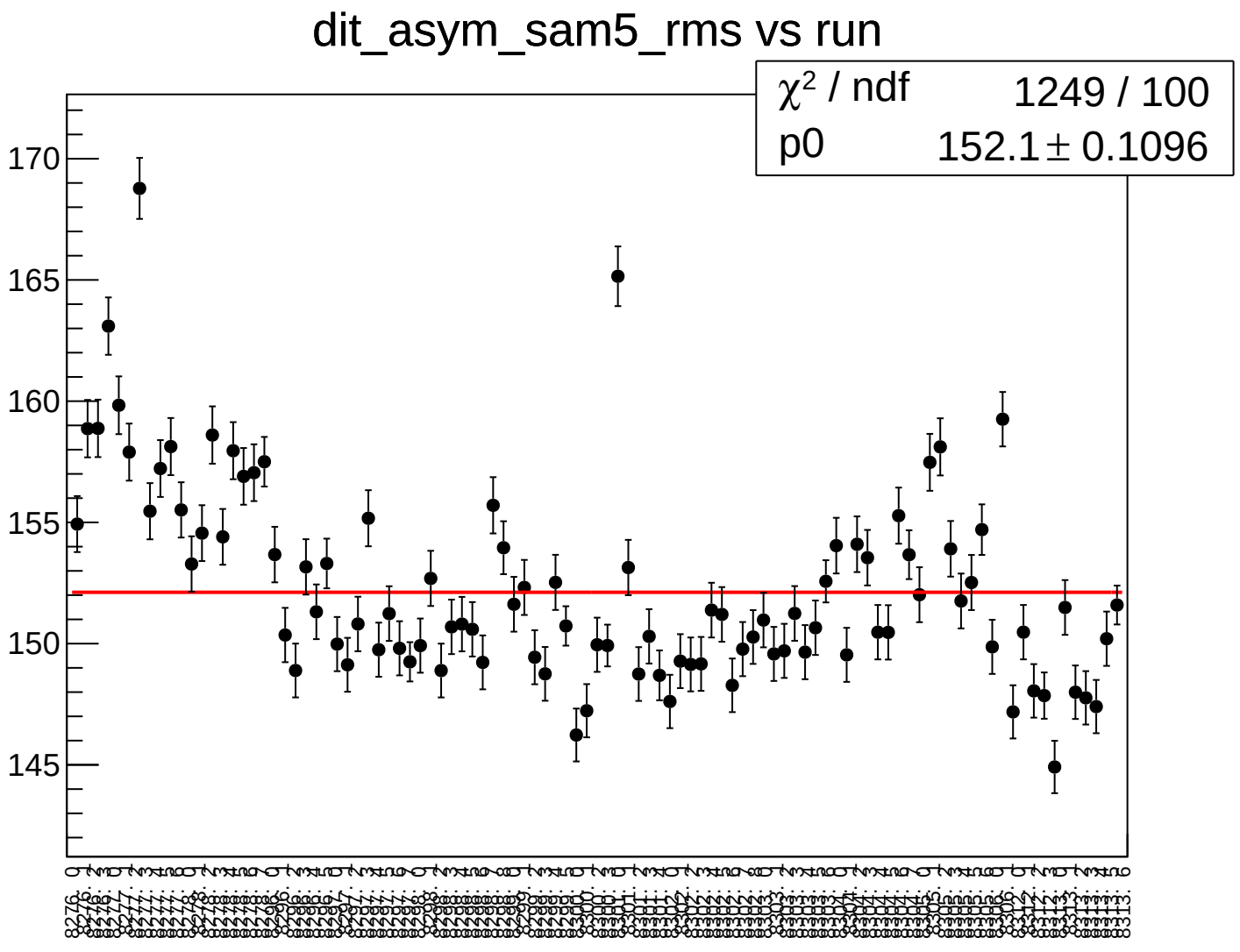

eigen_cor_asym_sam5_rms vs run
χ² / ndf 1043 / 100
p0 142.7 ± 0.1028
155
150
145
140
135

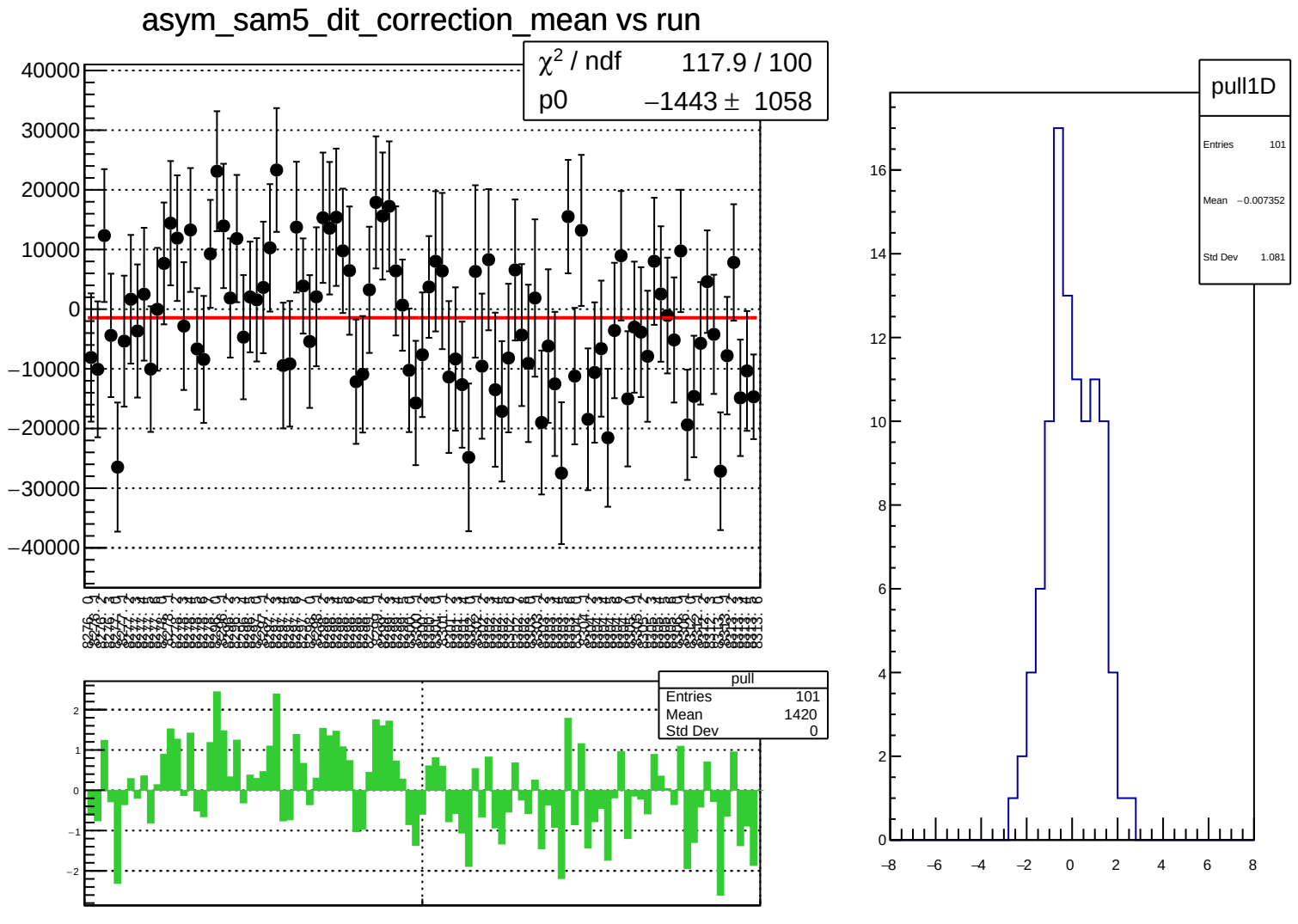

asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 119.7 / 100
p0 −1375 ± 1036
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 101
Mean 1061
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.01027
Std Dev 1.088
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

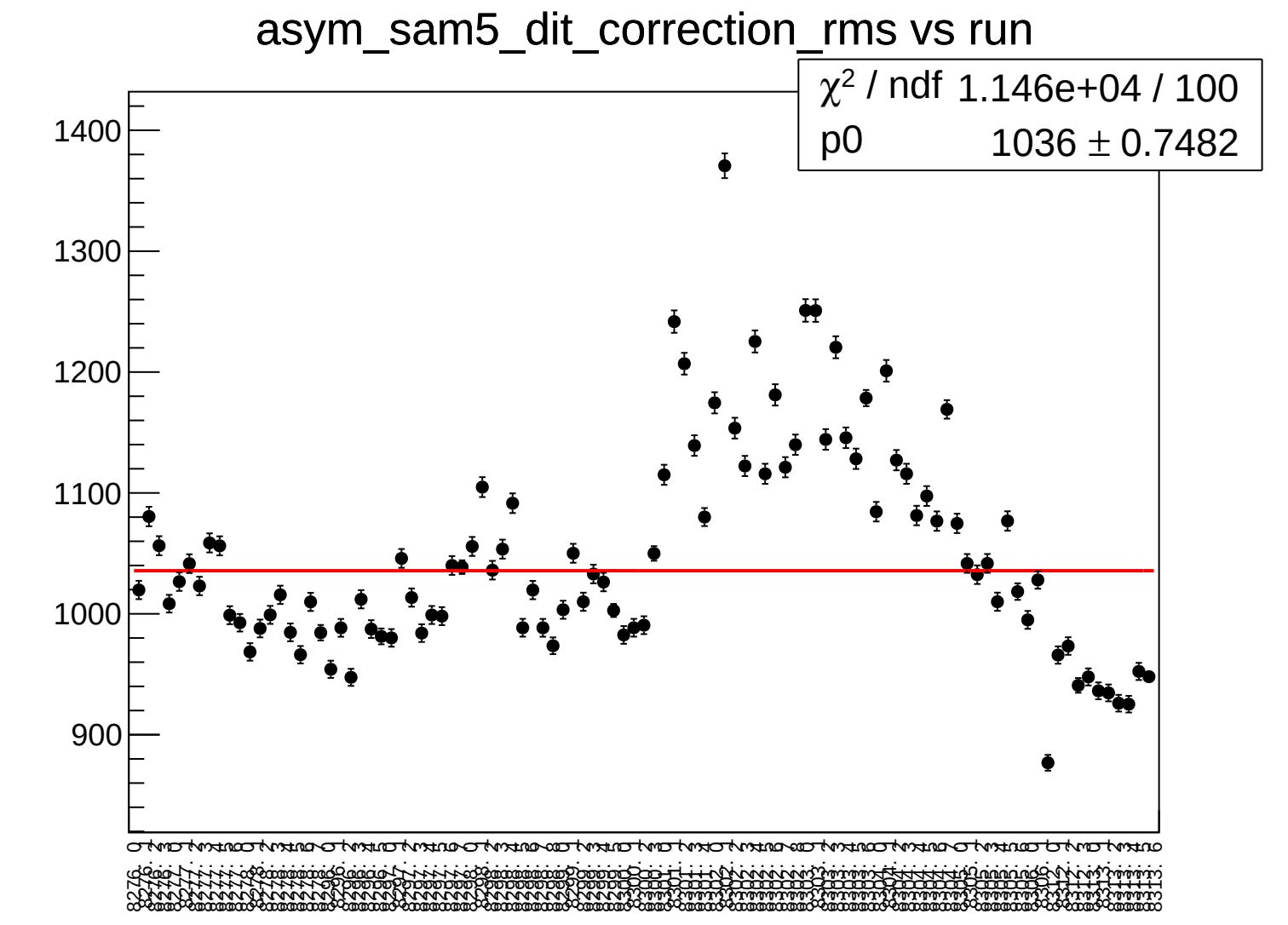

asym_sam5_eigen_cor_correction_rms vs run
χ² / ndf 1.367e+04 / 100
p0 1013 ± 0.7324
1400
1300
1200
1100
1000
900
800

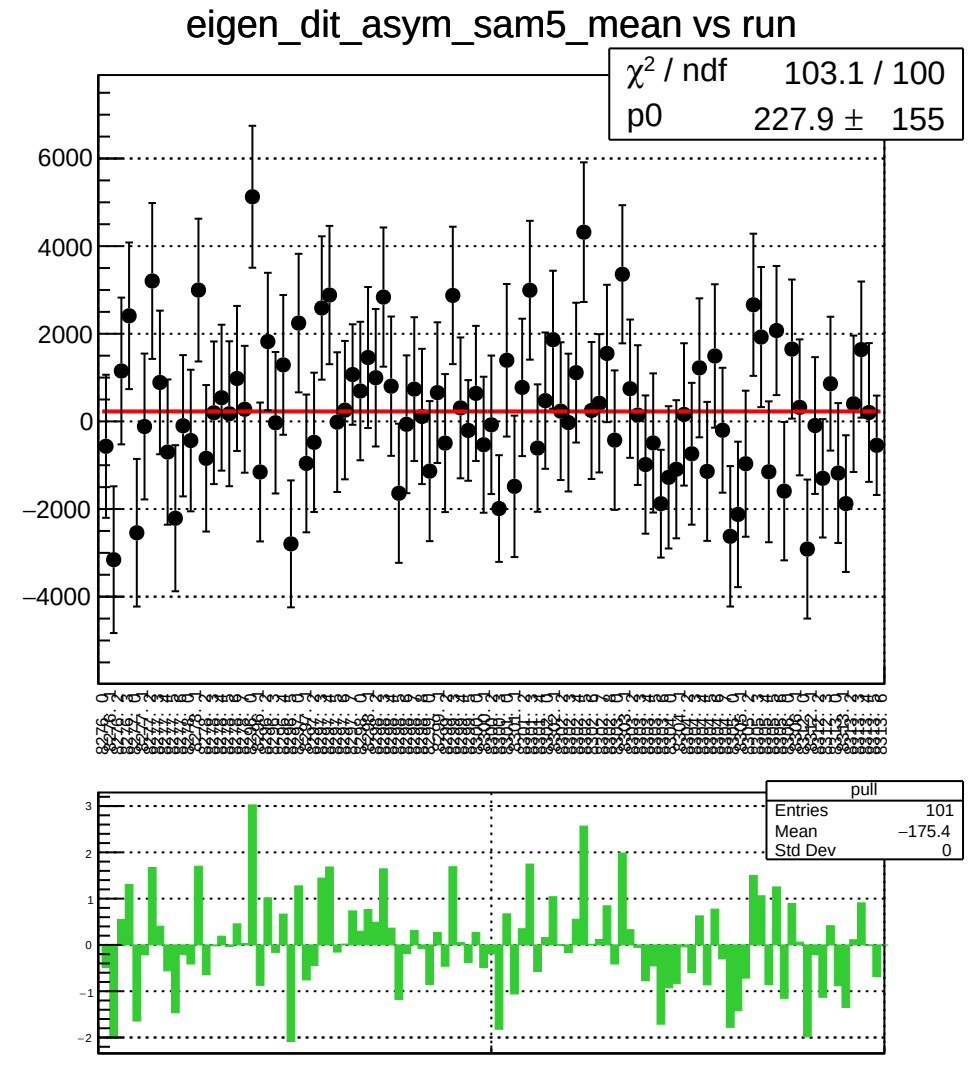

dit_asym_sam5_mean vs run
χ² / ndf 103.1 / 100
p0 227.9 ± 155
6000
4000
2000
0
−2000
−4000
pull
Entries 101
Mean −175.4
Std Dev 0
3
2
1
0
−1
−2

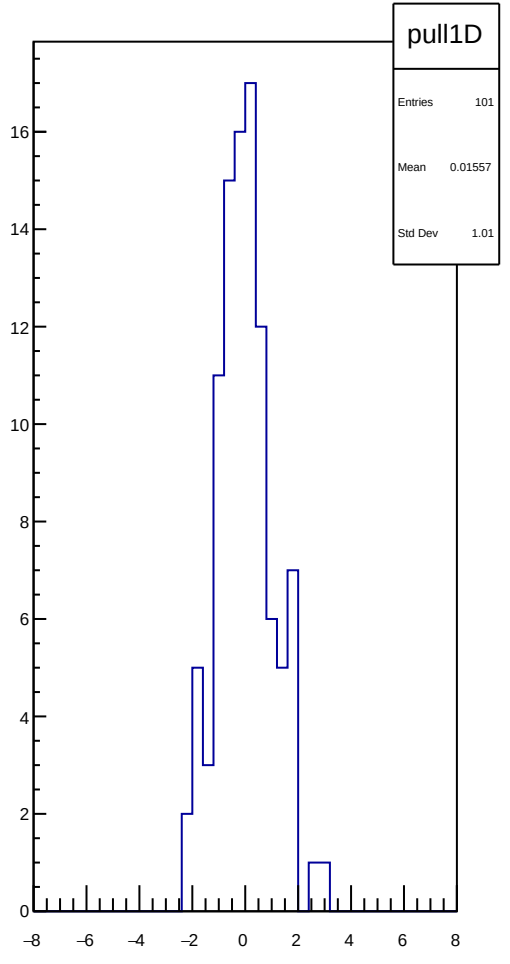

pull1D
Entries 101
Mean 0.01557
Std Dev 1.01
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam5_rms vs run
χ² / ndf 1249 / 100
p0 152.1 ± 0.1096
170
165
160
155
150
145


asym_sam5_dit_correction_mean vs run
χ² / ndf 117.9 / 100
p0 −1443 ± 1058
pull
Entries 101
Mean 1420
Std Dev 0
pull1D
Entries 101
Mean −0.007352
Std Dev 1.081


asym_sam5_dit_correction_rms vs run
χ^2 / ndf 1.146e+04 / 100
p0 1036 ± 0.7482
1400
1300
1200
1100
1000
900


eigen_dit_asym_sam5_mean vs run
χ² / ndf 103.1 / 100
p0 227.9 ± 155
6000
4000
2000
0
−2000
−4000
pull
Entries 101
Mean −175.4
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 101
Mean 0.01557
Std Dev 1.01
16
14
12
10
8
6
4
2
0
−8
−6
−4
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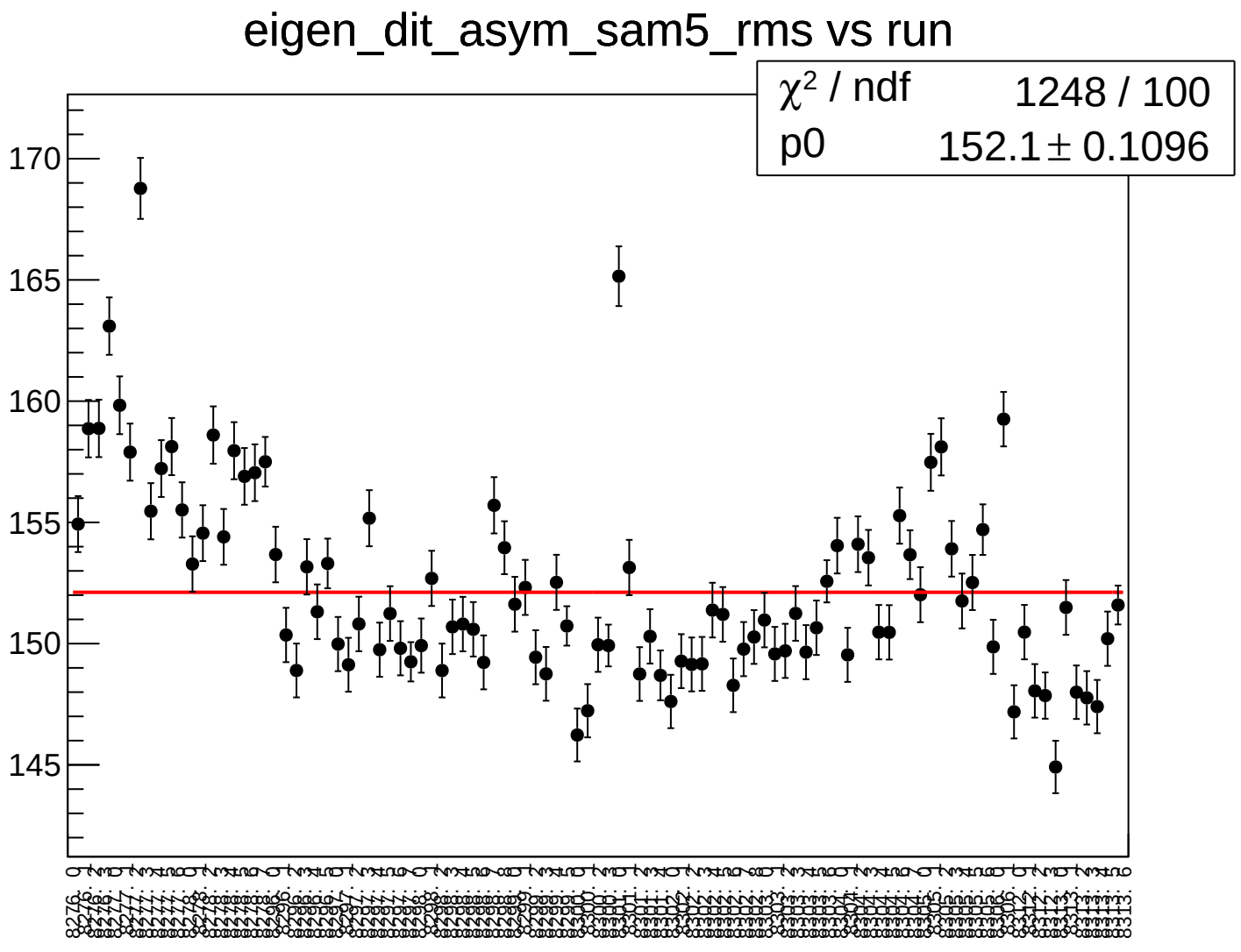
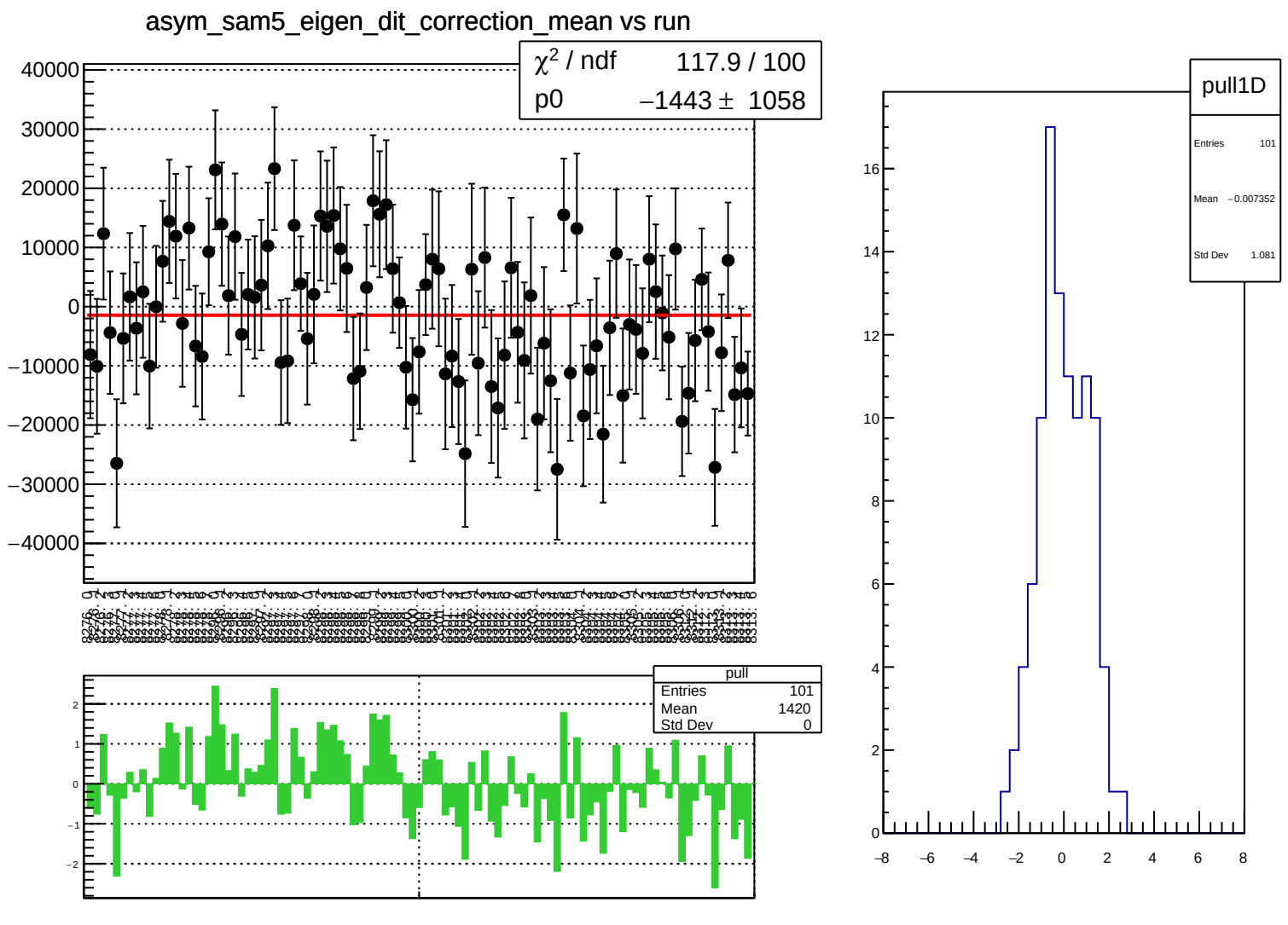
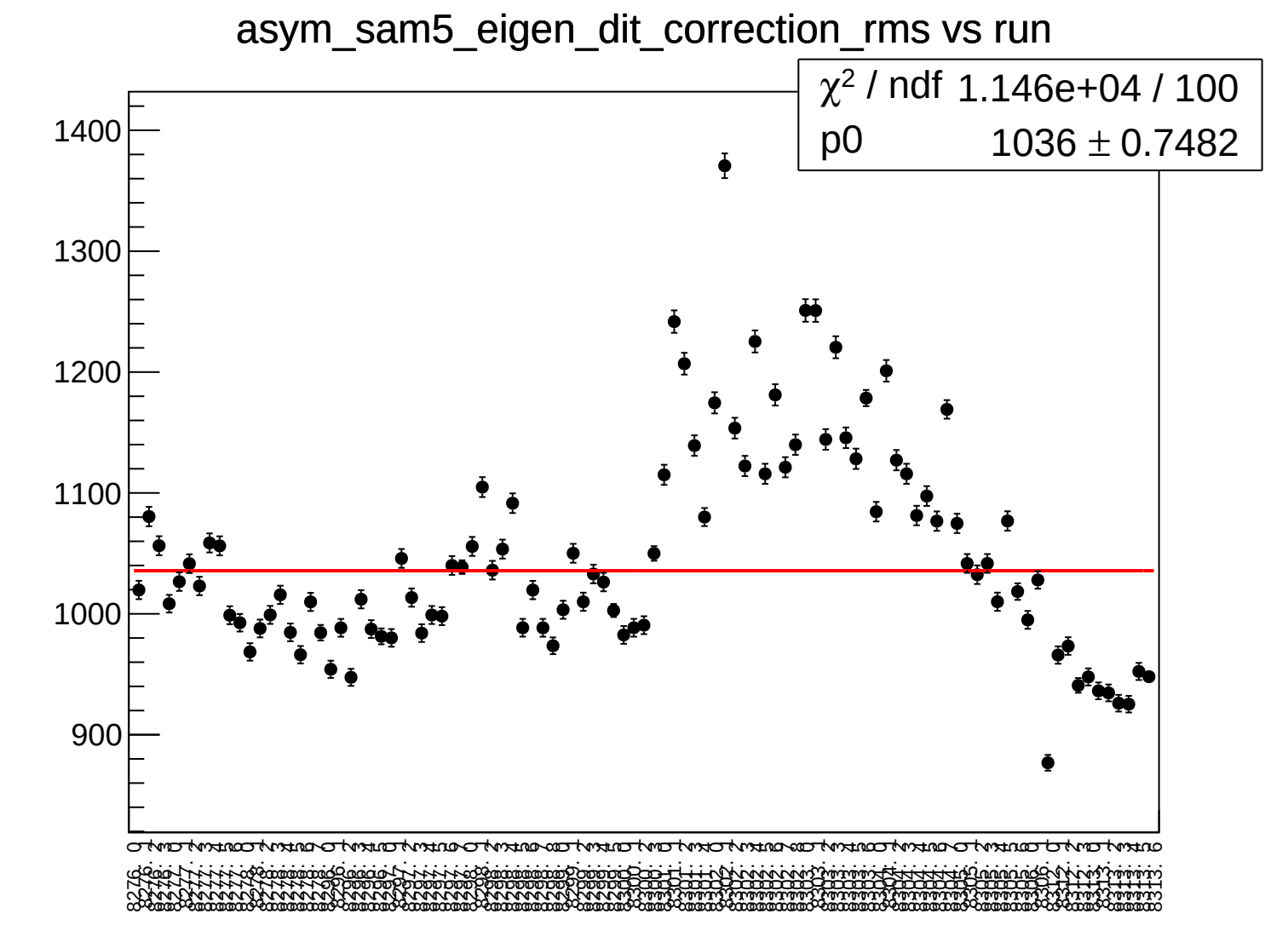
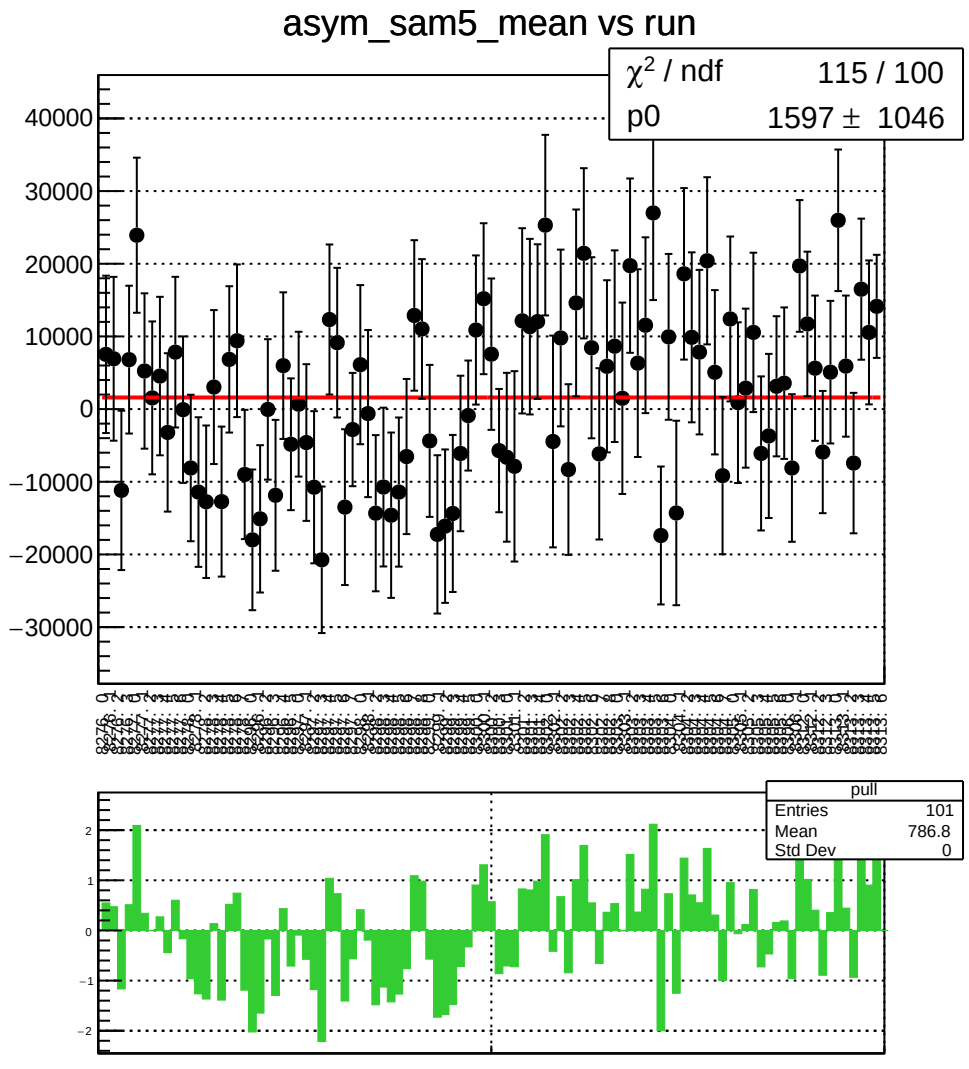
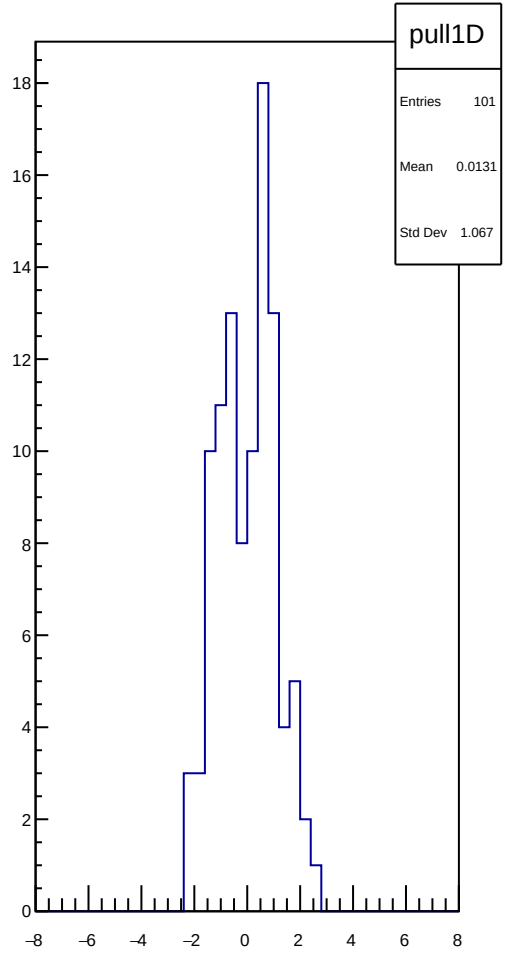
0
2
4
6
8

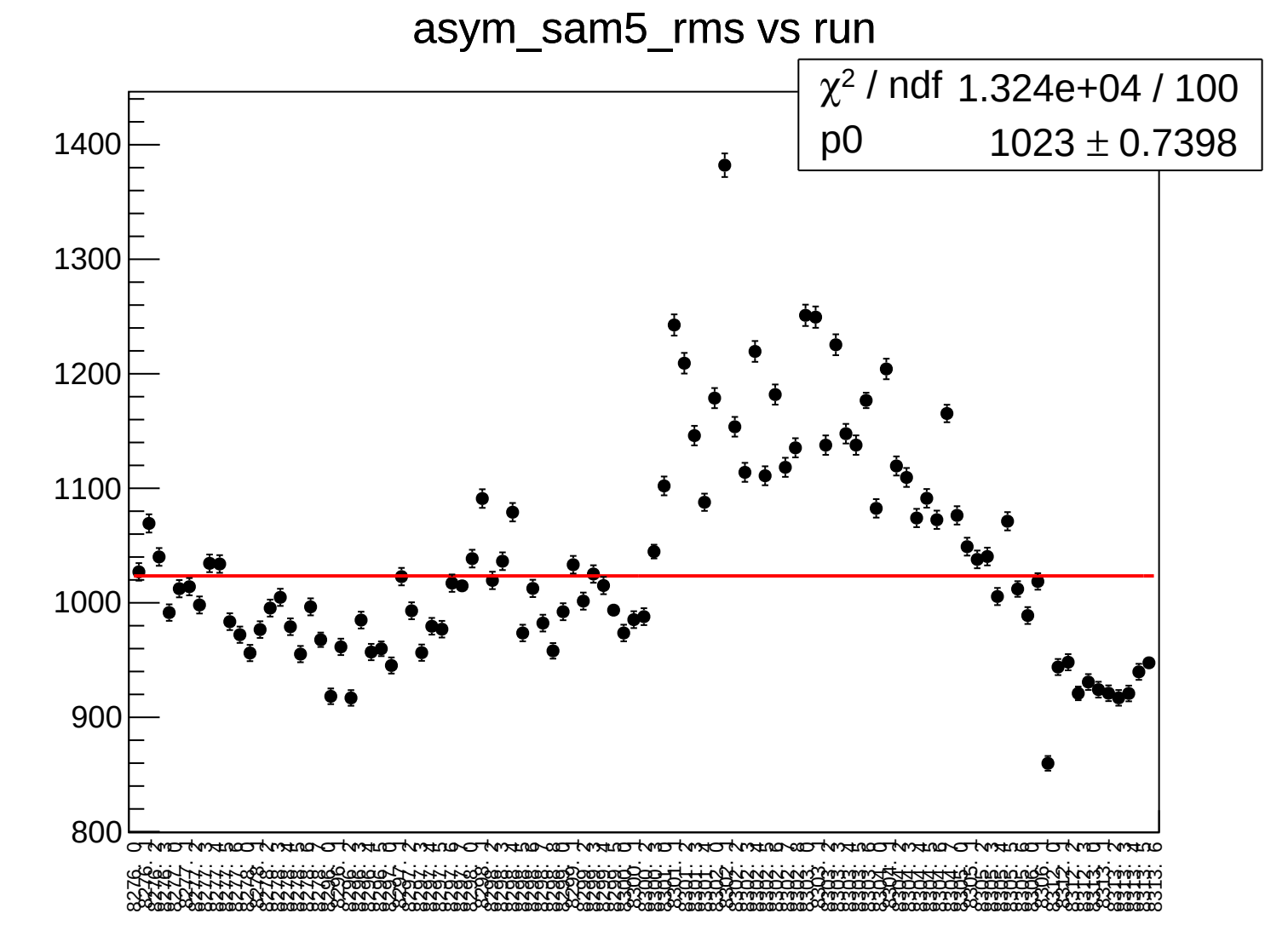

eigen_dit_asym_sam5_rms vs run
χ² / ndf 1248 / 100
p0 152.1 ± 0.1096
170
165
160
155
150
145

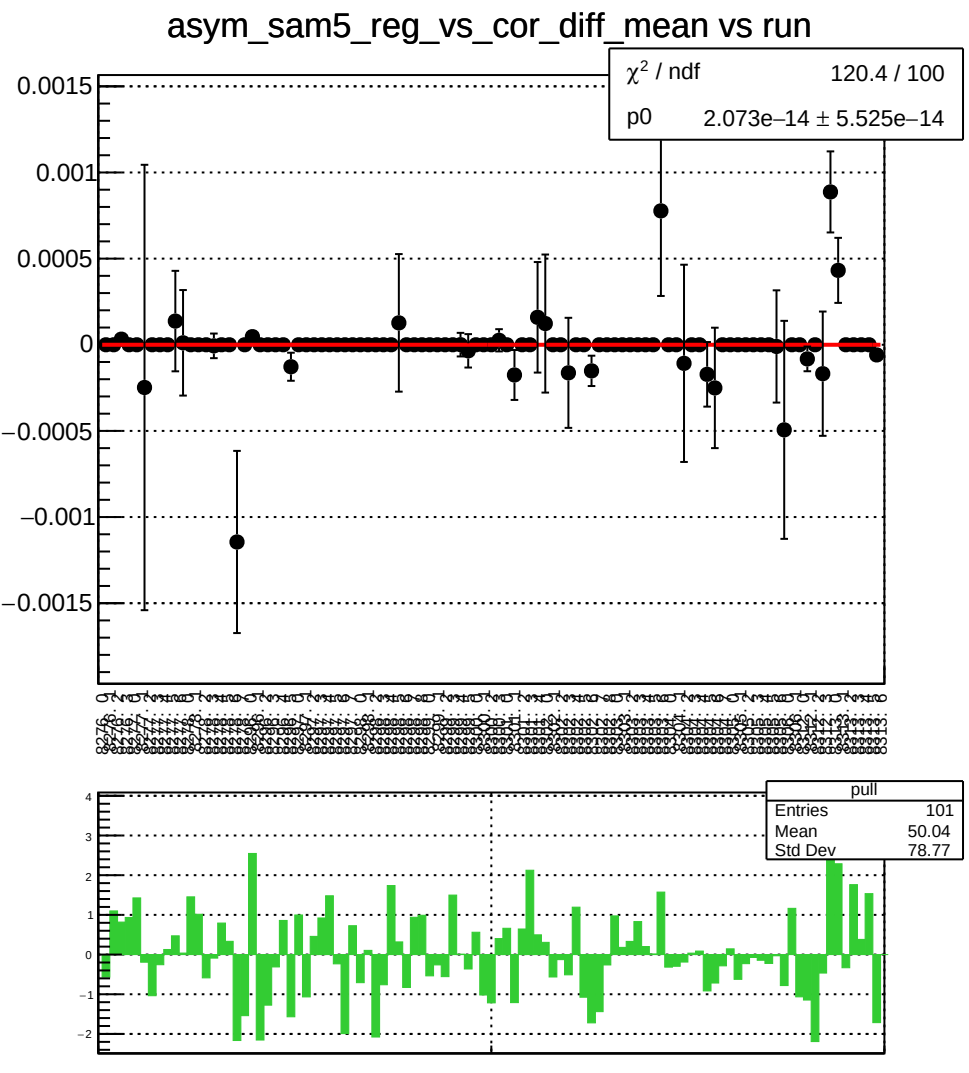

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 117.9 / 100
p0 −1443 ± 1058
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 101
Mean 1420
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.007352
Std Dev 1.081
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

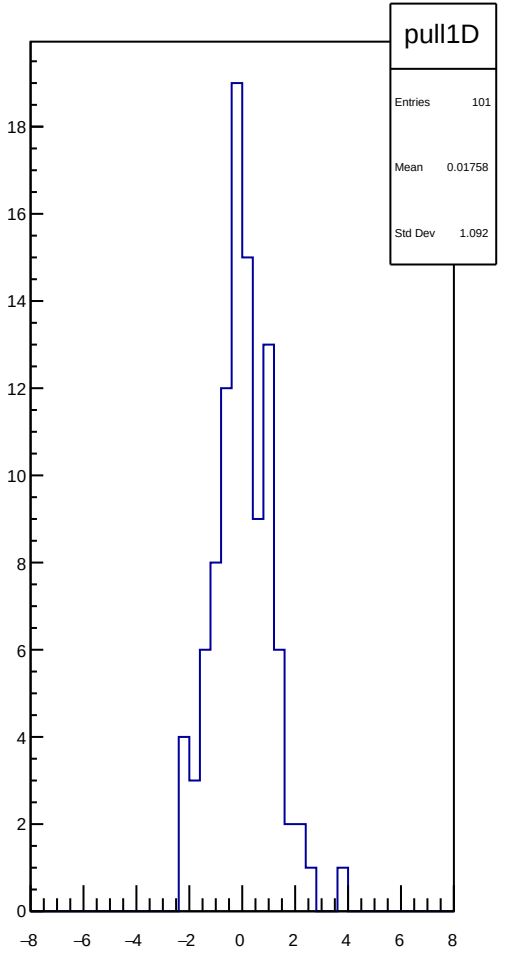

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 1.146e+04 / 100
p0 1036 ± 0.7482
1400
1300
1200
1100
1000
900


asym_sam5_mean vs run
χ² / ndf 115 / 100
p0 1597 ± 1046
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 101
Mean 786.8
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 101
Mean 0.0131
Std Dev 1.067
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam5_rms vs run
χ² / ndf 1.324e+04 / 100
p0 1023 ± 0.7398
1400
1300
1200
1100
1000
900
800


asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 120.4 / 100
p0 2.073e−14 ± 5.525e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 101
Mean 50.04
Std Dev 78.77
4
3
2
1
0
−1
−2


pull1D
Entries 101
Mean 0.01758
Std Dev 1.092
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
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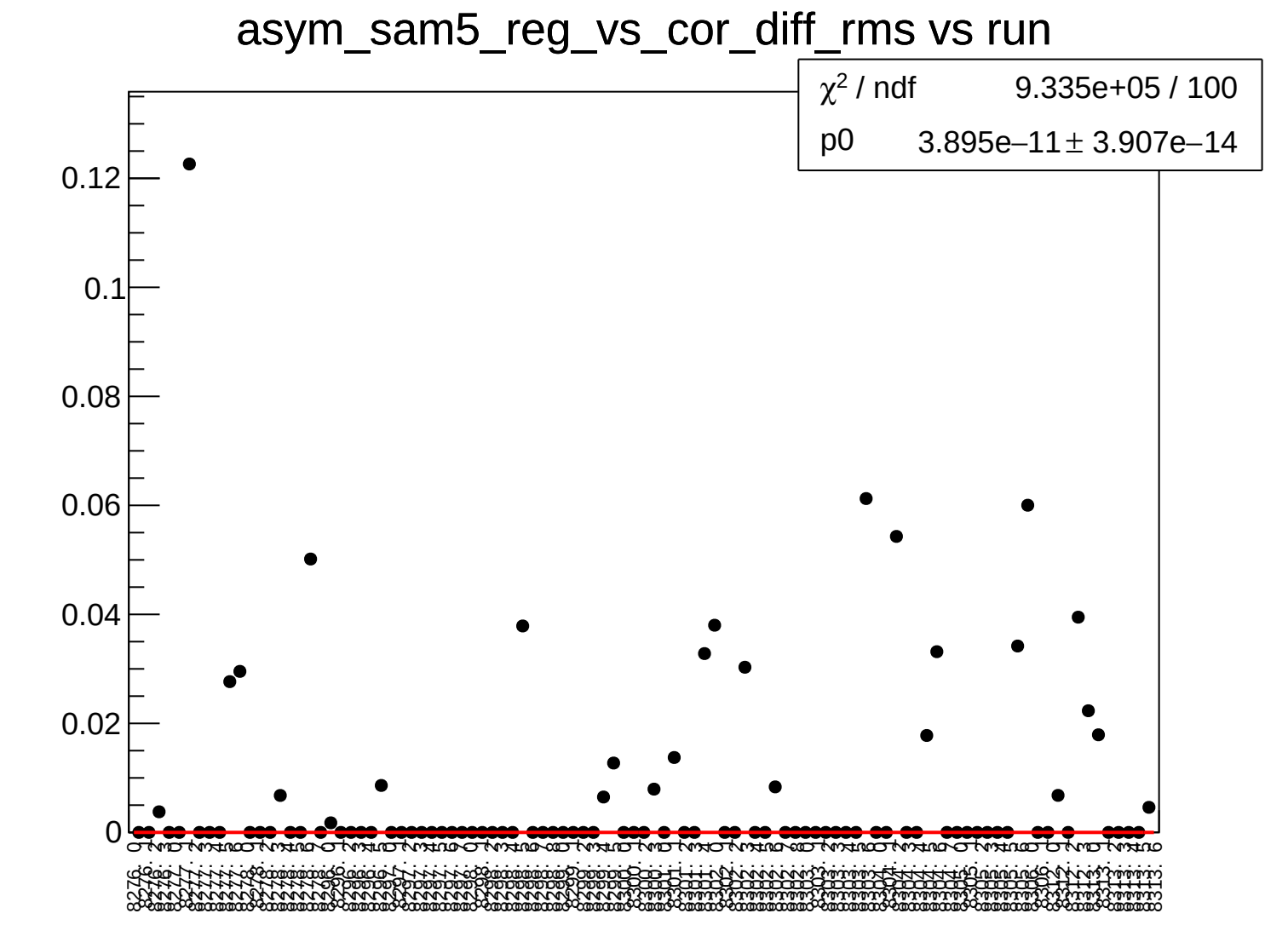
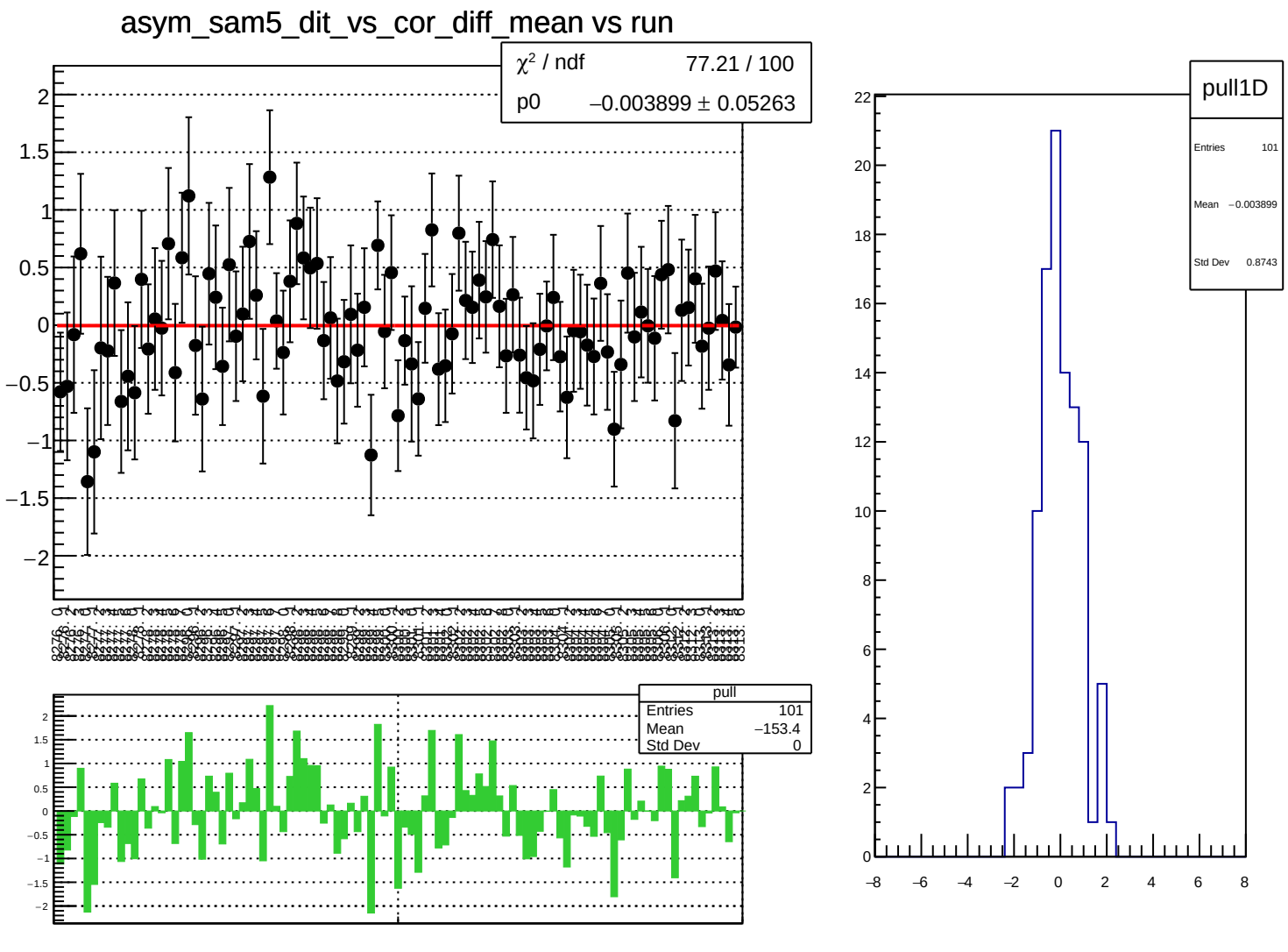
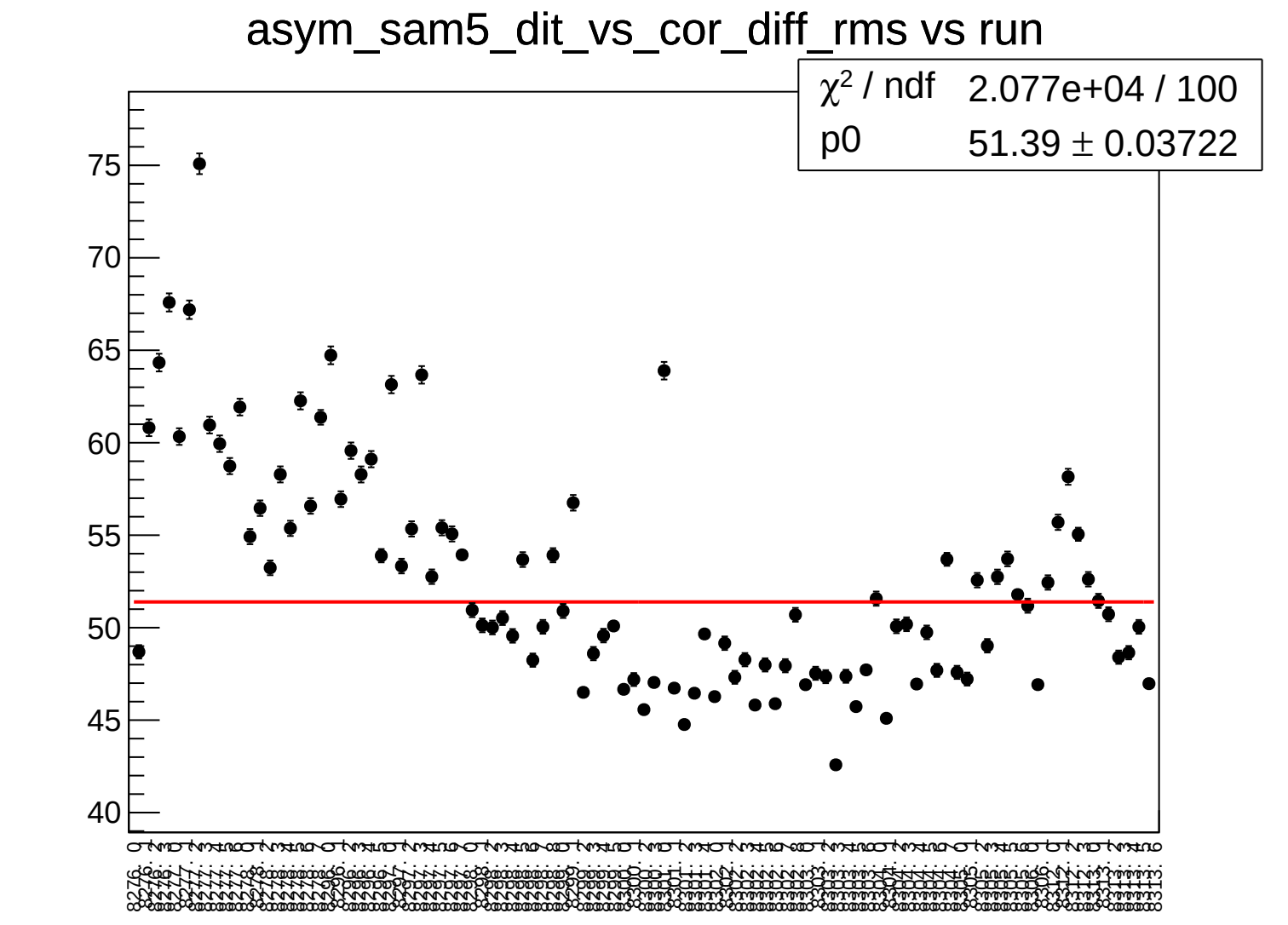
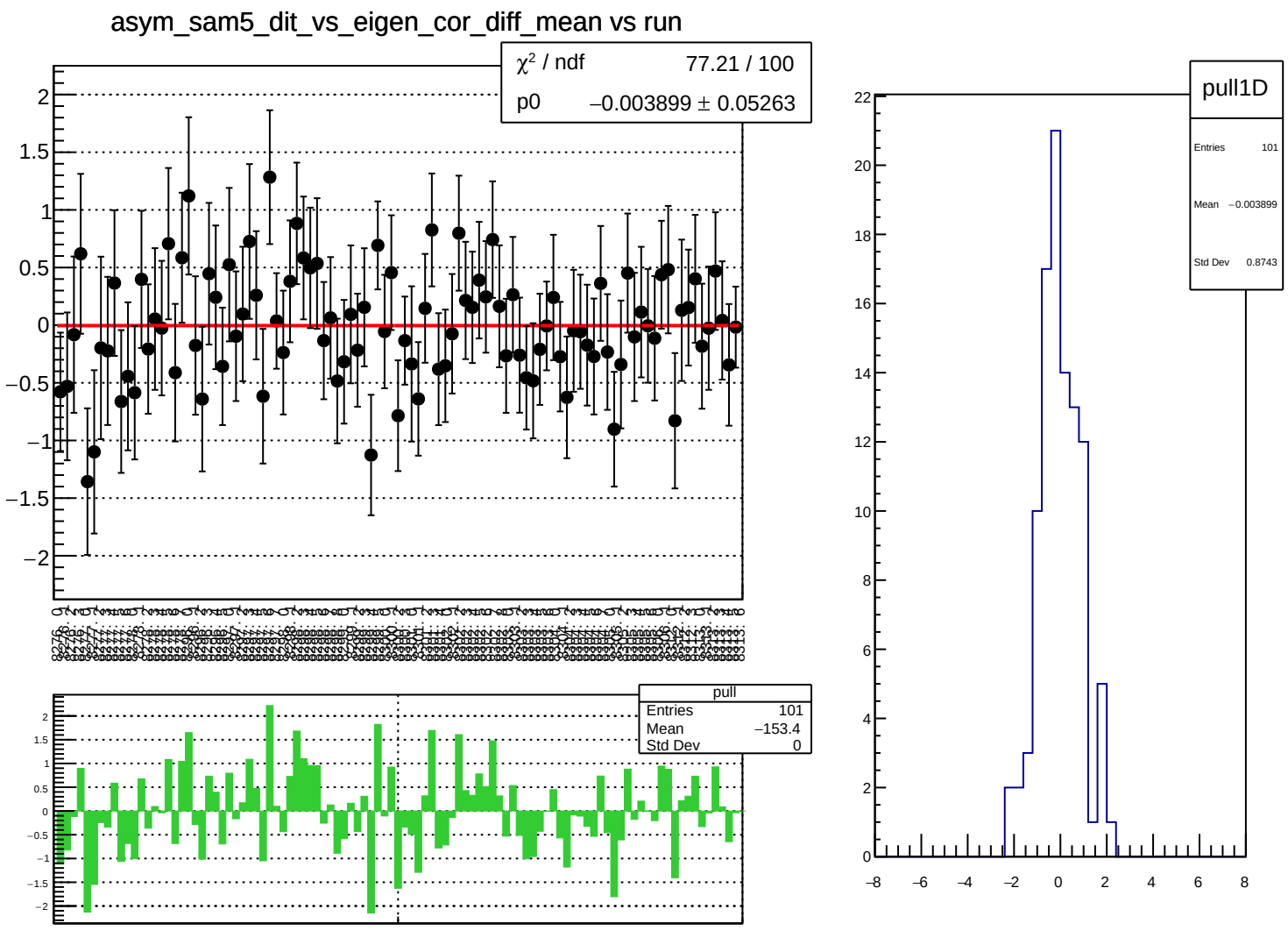
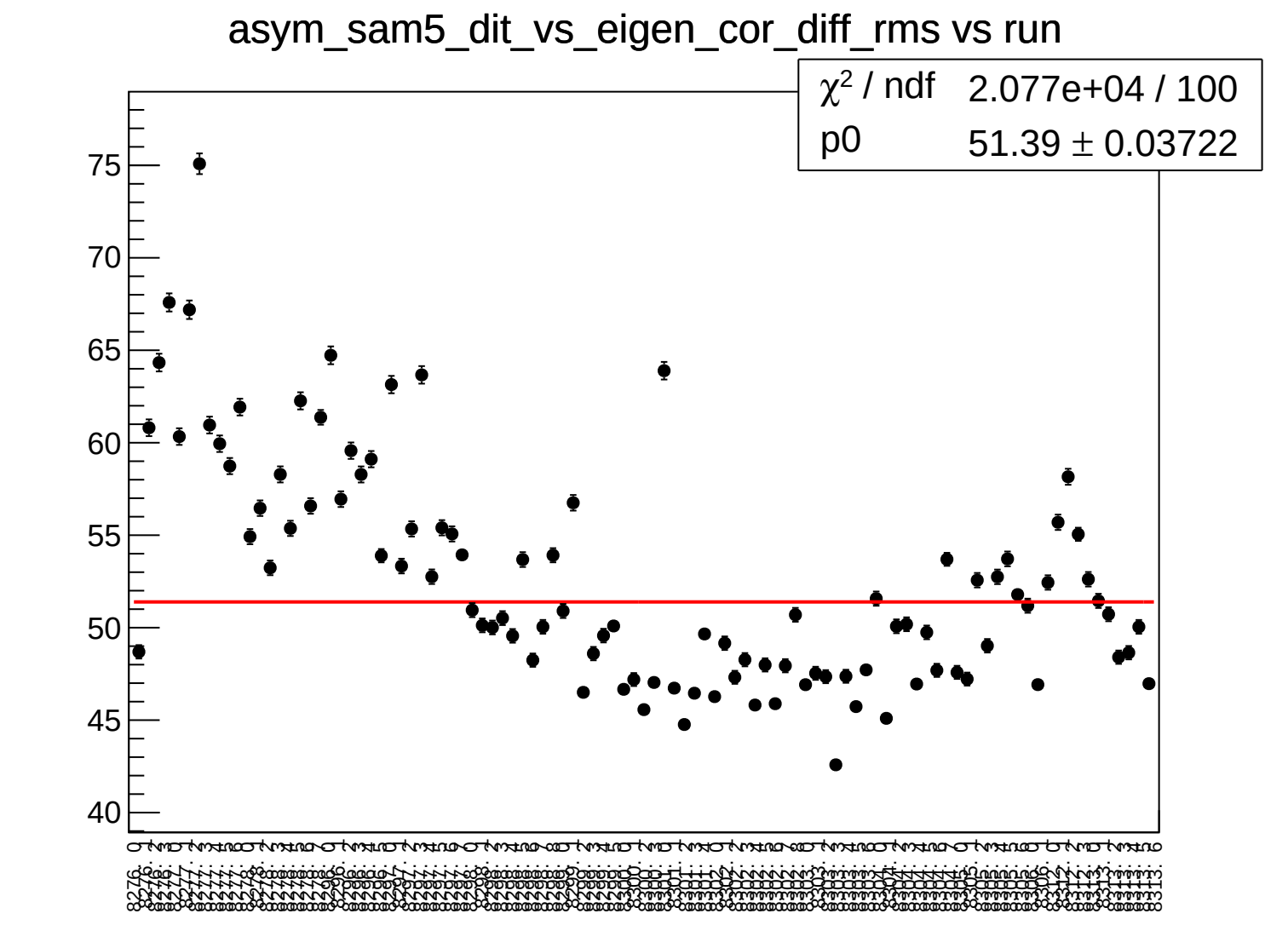
0
2
4
6
8

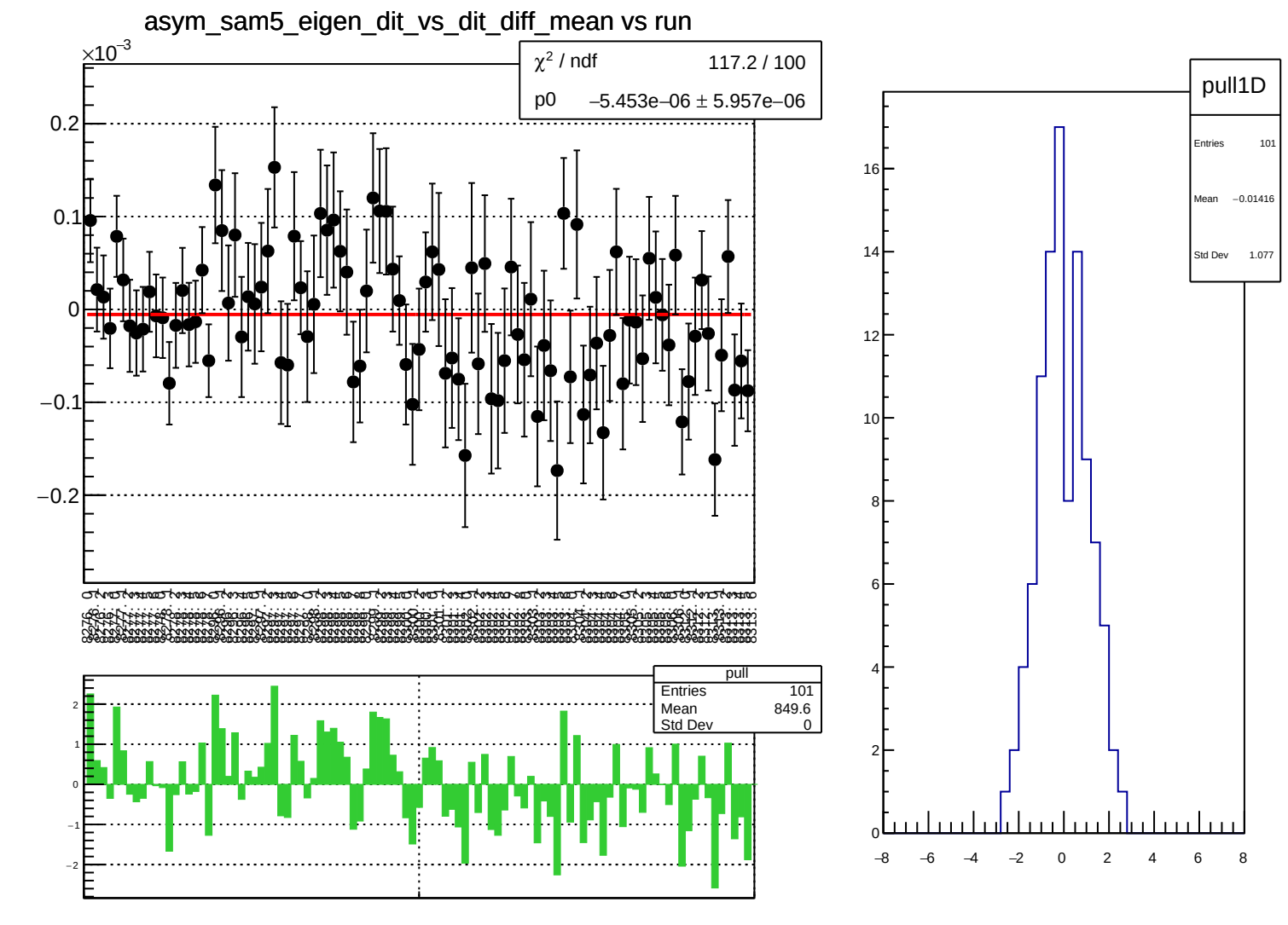

asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 9.335e+05 / 100
p0 3.895e−11 ± 3.907e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

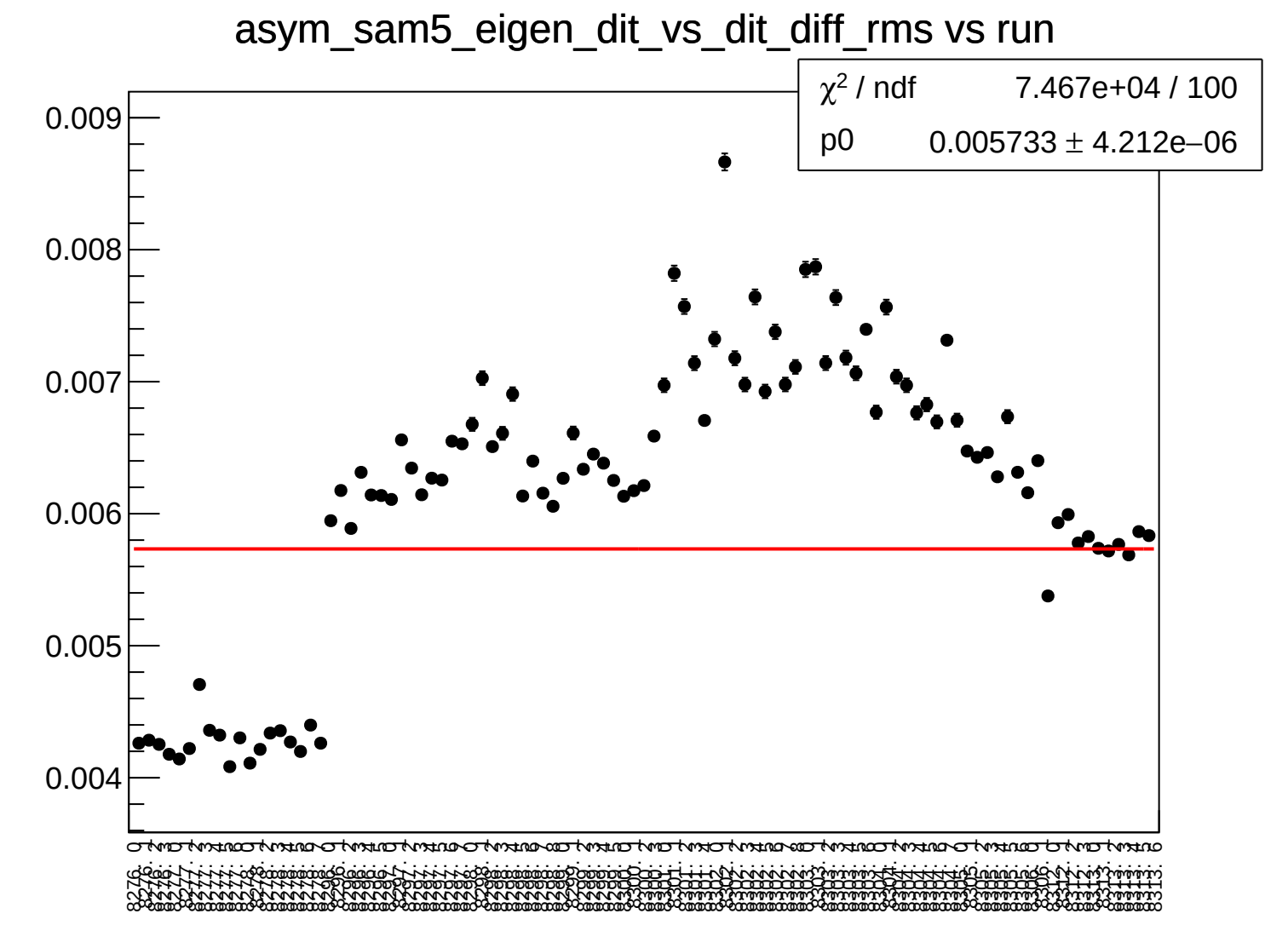

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 77.21 / 100
p0 −0.003899 ± 0.05263
pull
Entries 101
Mean −153.4
Std Dev 0
pull1D
Entries 101
Mean −0.003899
Std Dev 0.8743

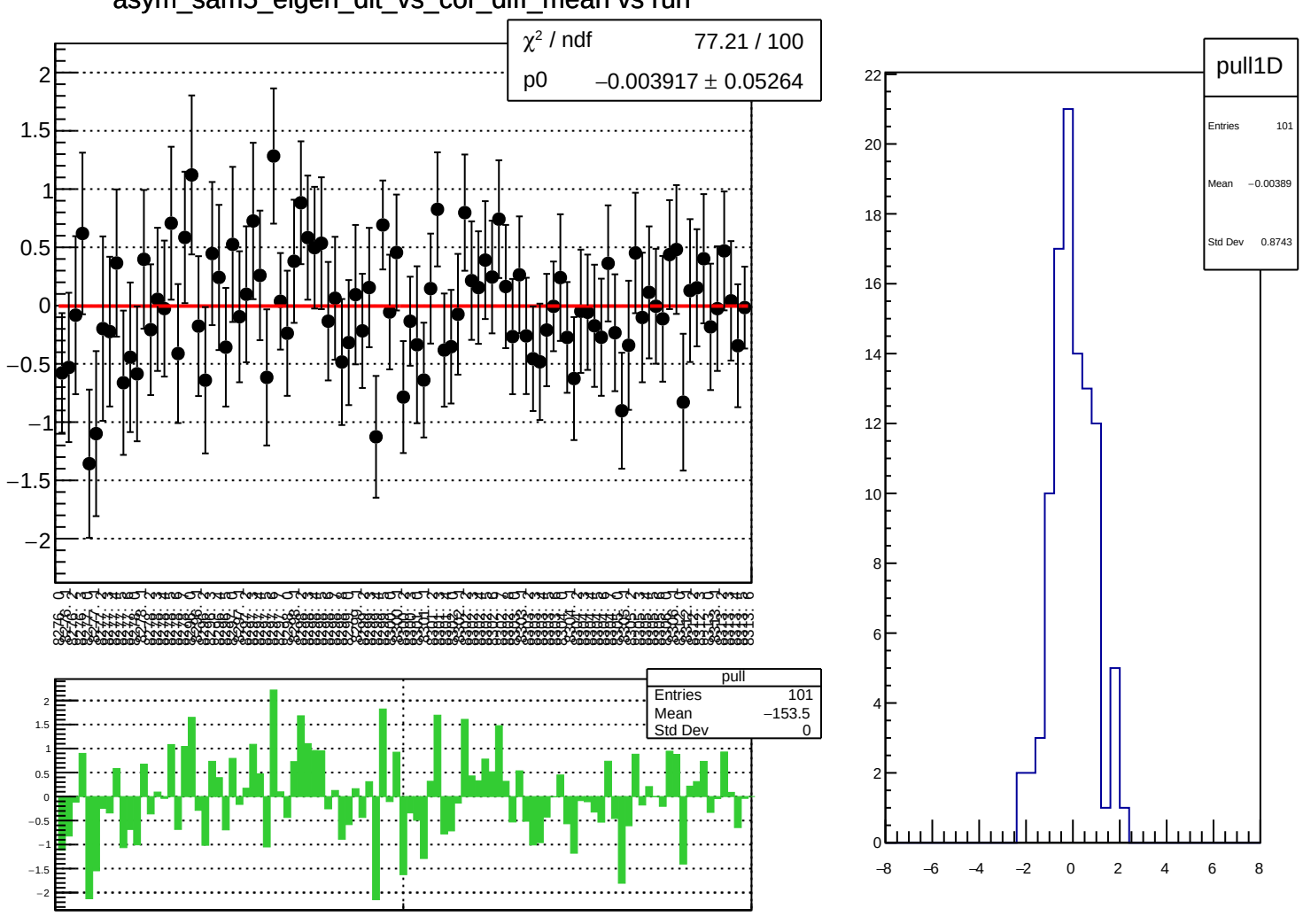

asym_sam5_dit_vs_cor_diff_rms vs run
χ² / ndf 2.077e+04 / 100
p0 51.39 ± 0.03722
75
70
65
60
55
50
45
40

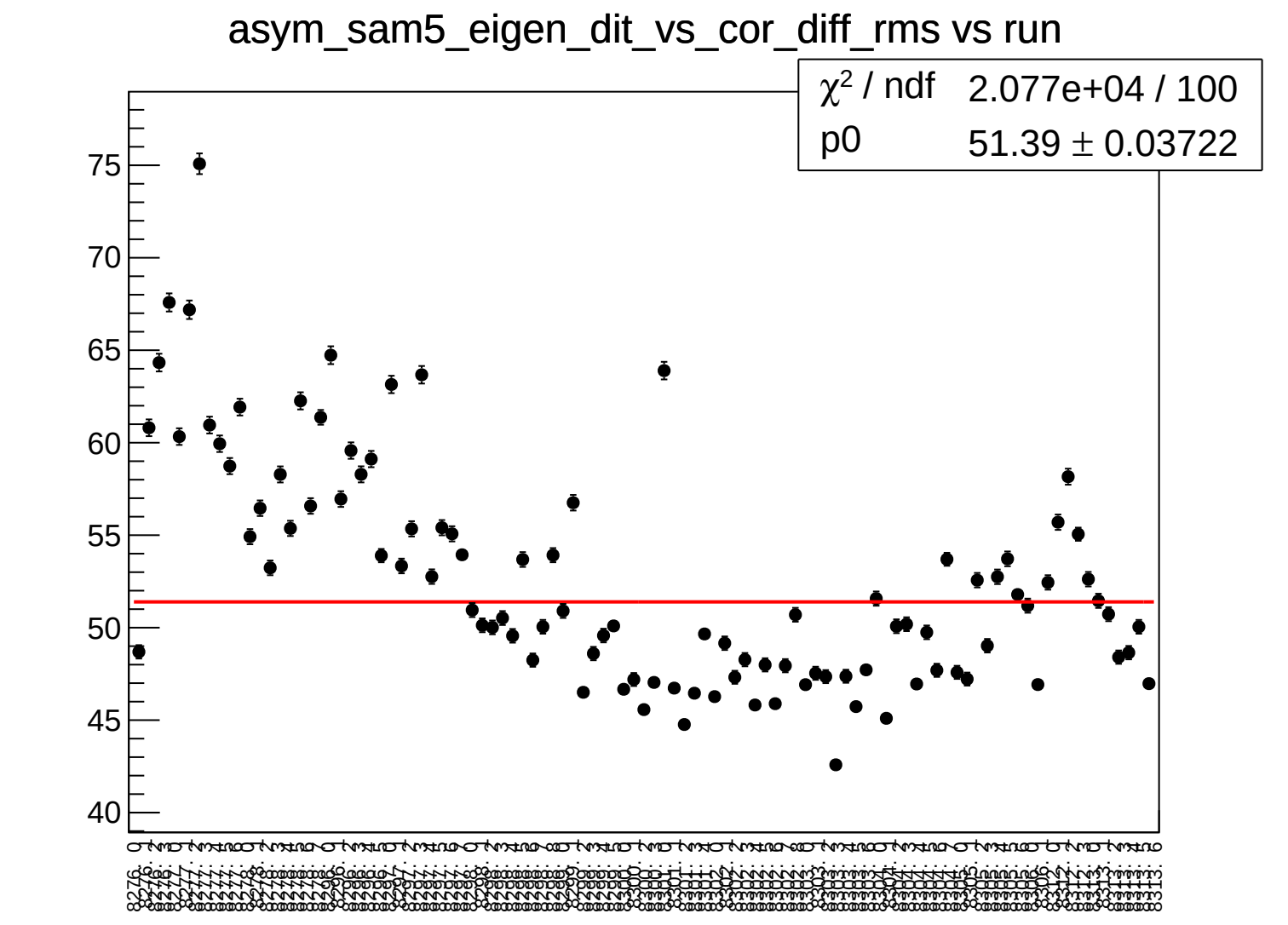

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.21 / 100
p0 −0.003899 ± 0.05263
pull
Entries 101
Mean −153.4
Std Dev 0
pull1D
Entries 101
Mean −0.003899
Std Dev 0.8743

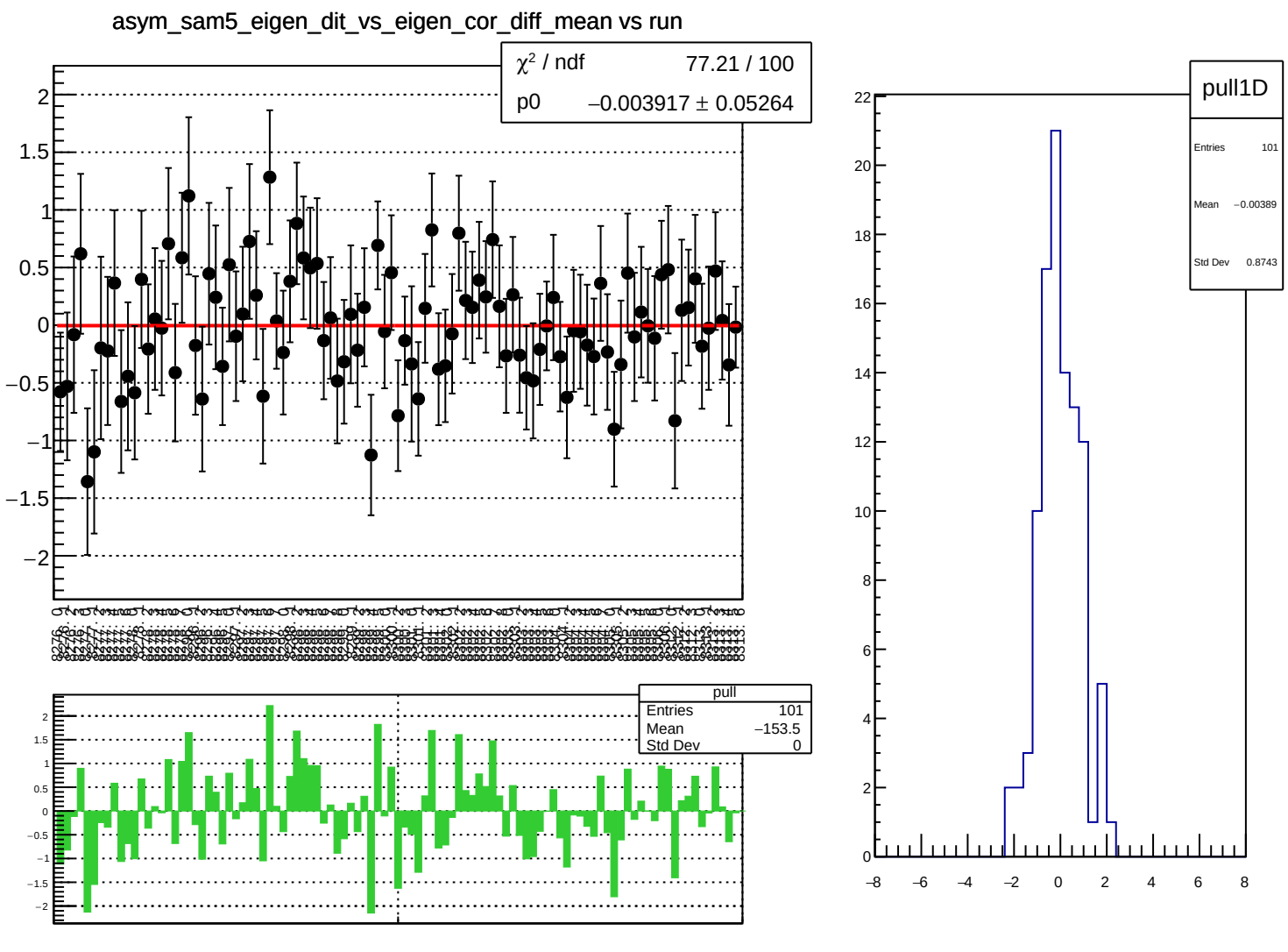

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.077e+04 / 100
p0 51.39 ± 0.03722
75
70
65
60
55
50
45
40

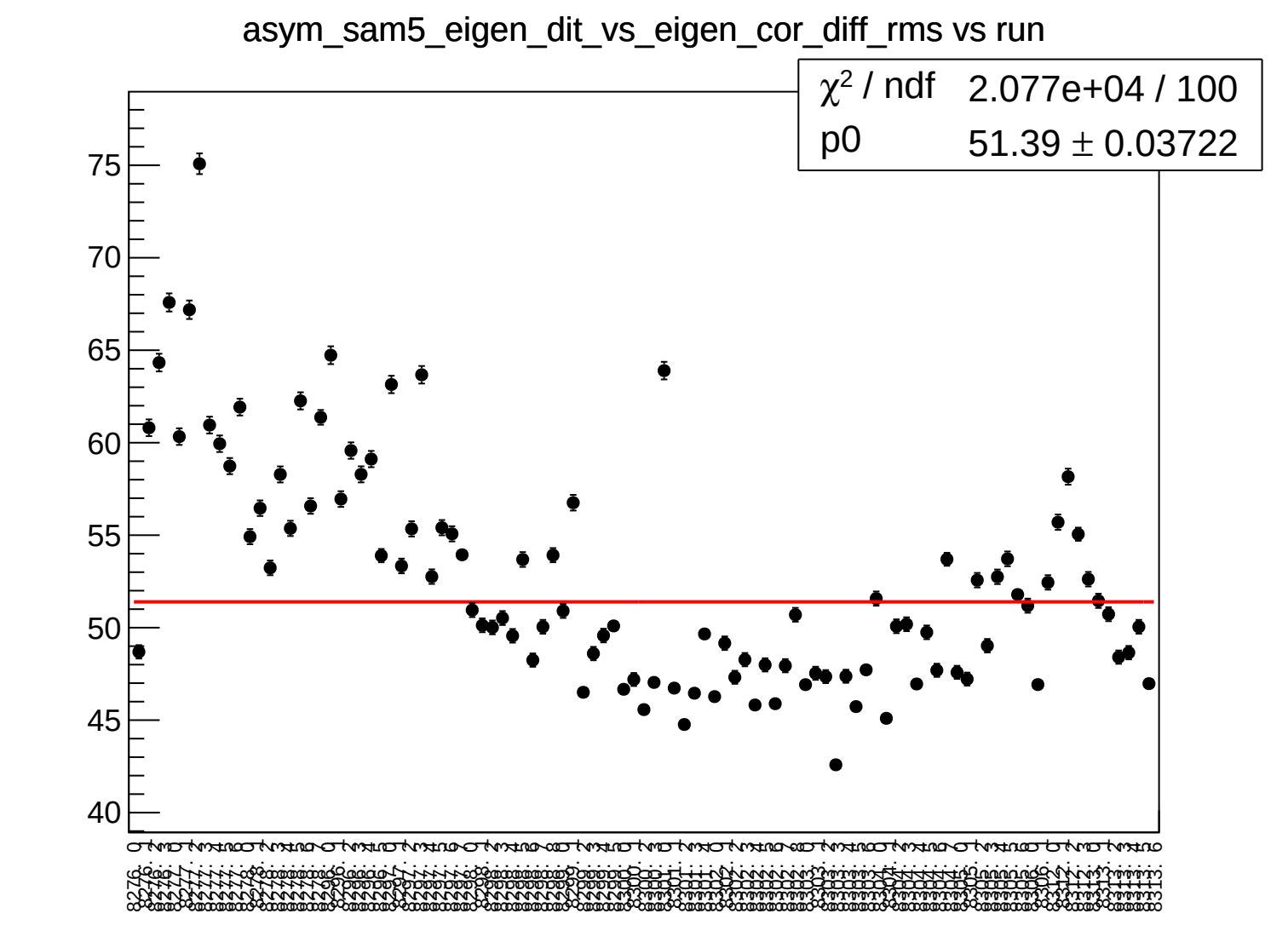

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 117.2 / 100
p0 −5.453e−06 ± 5.957e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 101
Mean 849.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.01416
Std Dev 1.077
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

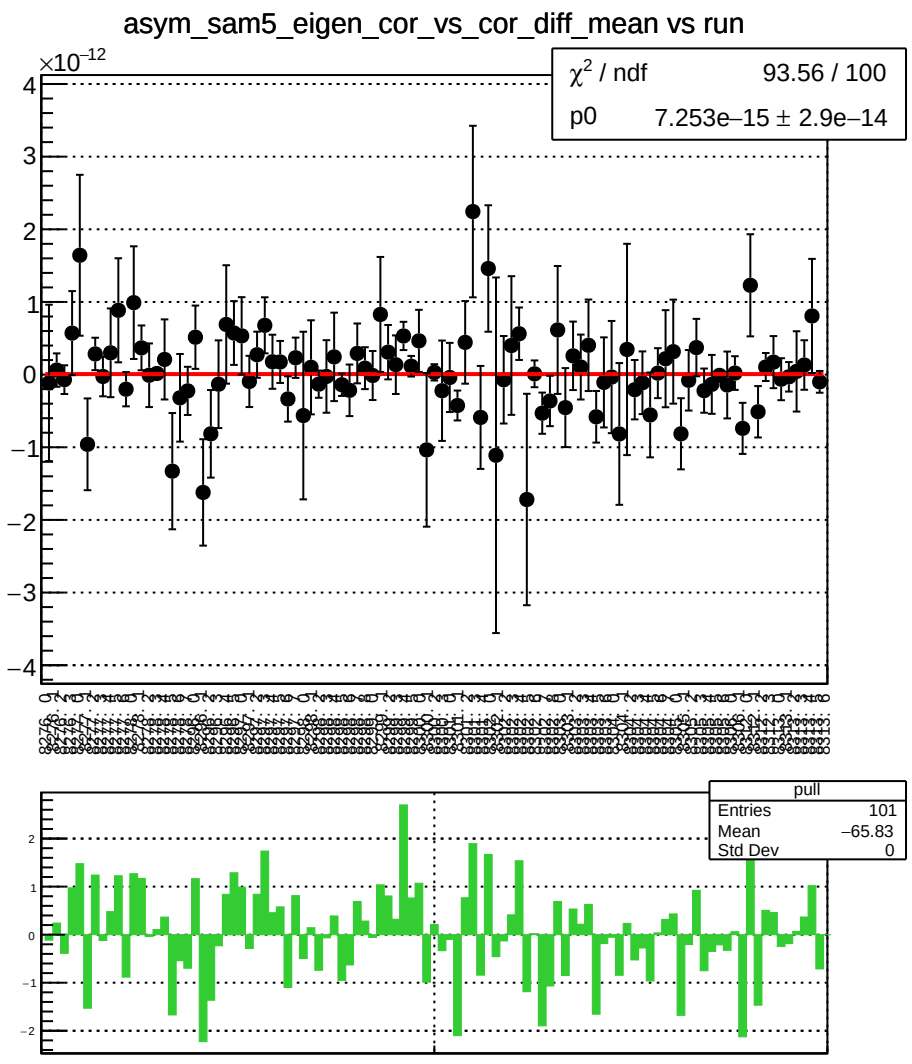

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.467e+04 / 100
p0 0.005733 ± 4.212e−06
0.009
0.008
0.007
0.006
0.005
0.004

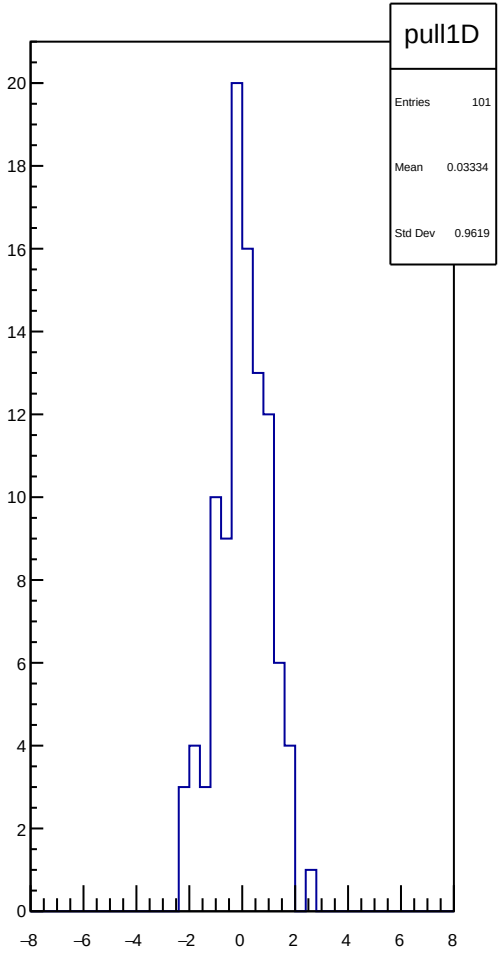

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.21 / 100
p0 −0.003917 ± 0.05264
pull
Entries 101
Mean −153.5
Std Dev 0
pull1D
Entries 101
Mean −0.00389
Std Dev 0.8743

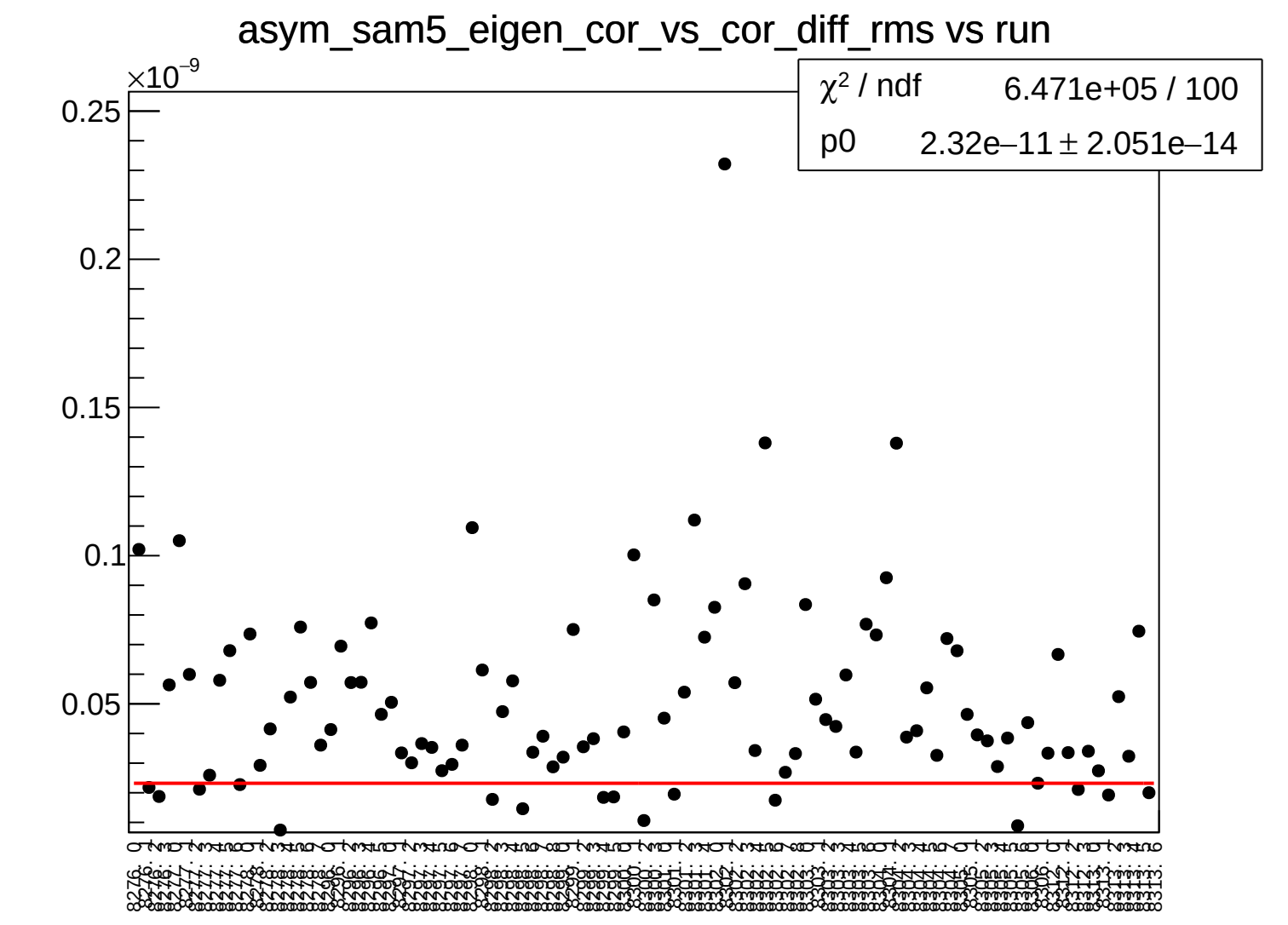

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.077e+04 / 100
p0 51.39 ± 0.03722
75
70
65
60
55
50
45
40

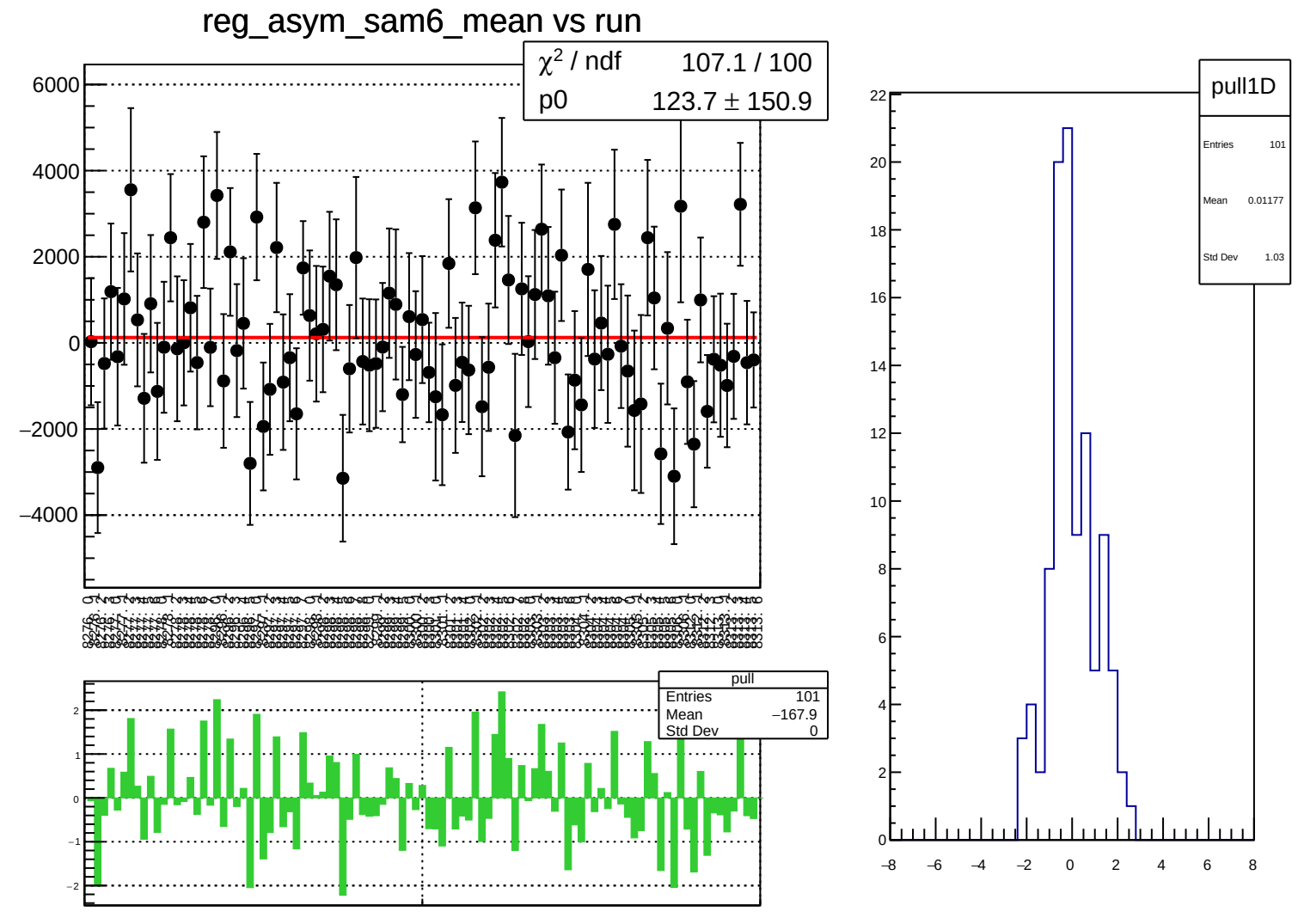

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.21 / 100
p0 −0.003917 ± 0.05264
pull
Entries 101
Mean −153.5
Std Dev 0
pull1D
Entries 101
Mean −0.00389
Std Dev 0.8743

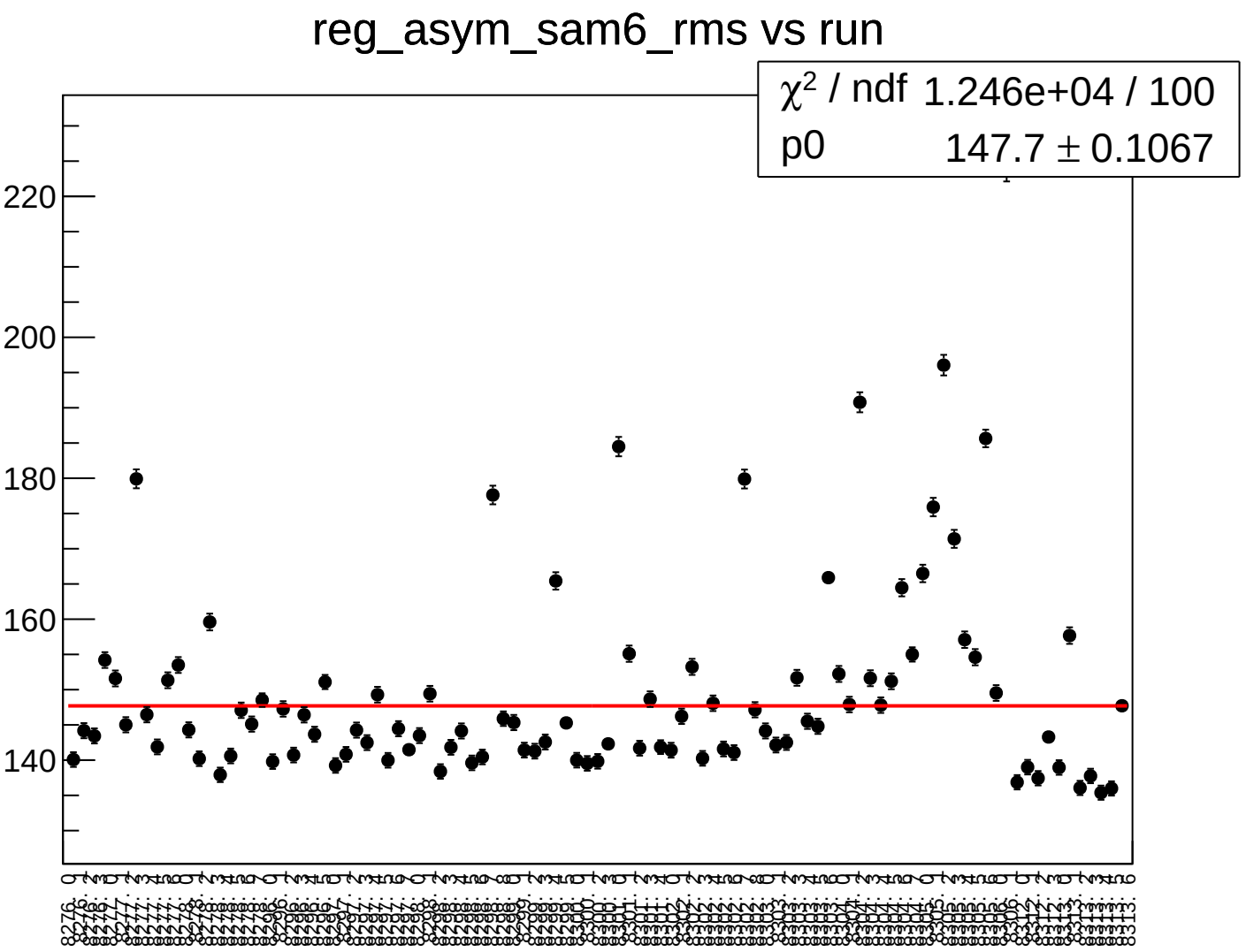

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.077e+04 / 100
p0 51.39 ± 0.03722
75
70
65
60
55
50
45
40

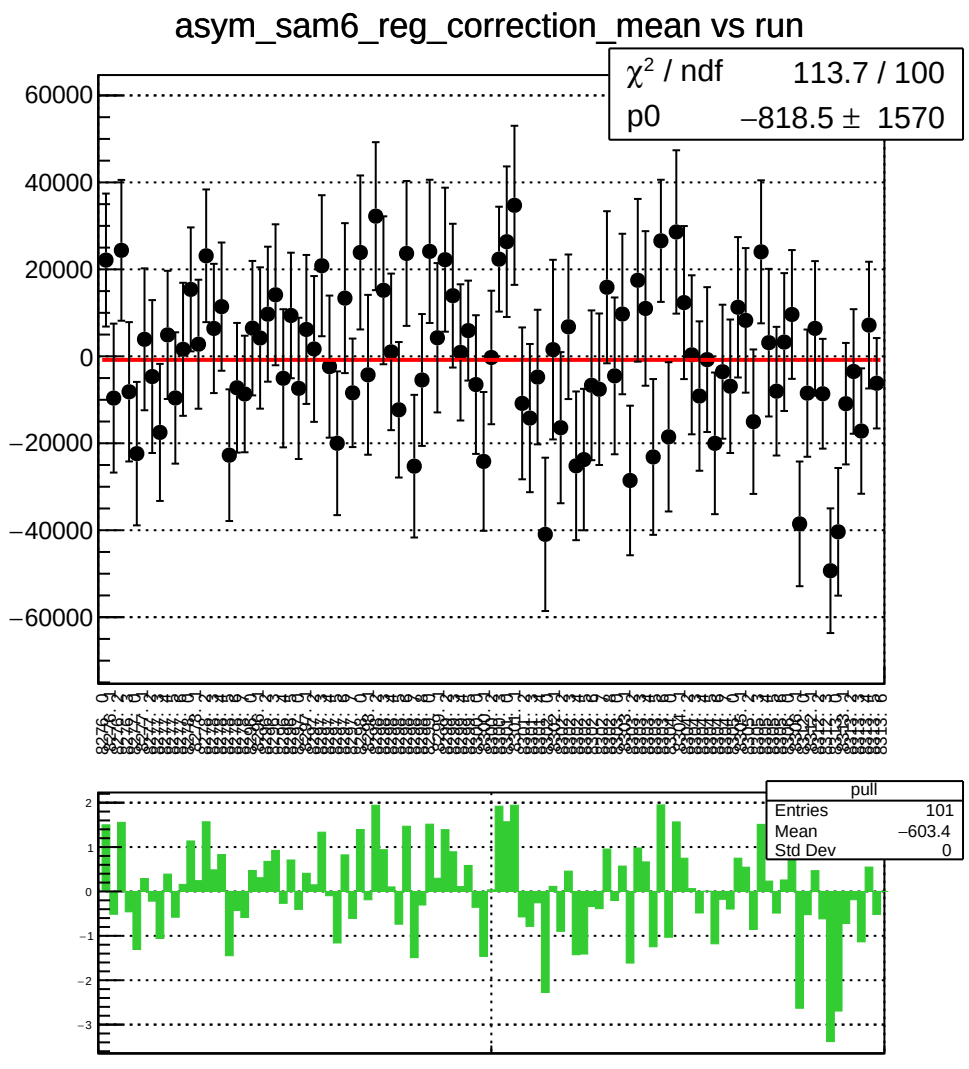

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.56 / 100
p0 7.253e−15 ± 2.9e−14
pull
Entries 101
Mean −65.83
Std Dev 0

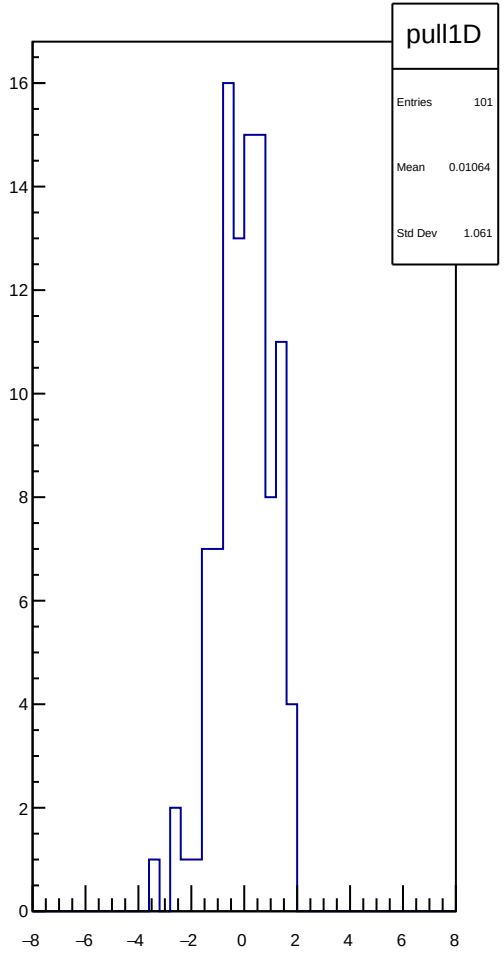

pull1D
Entries 101
Mean 0.03334
Std Dev 0.9619

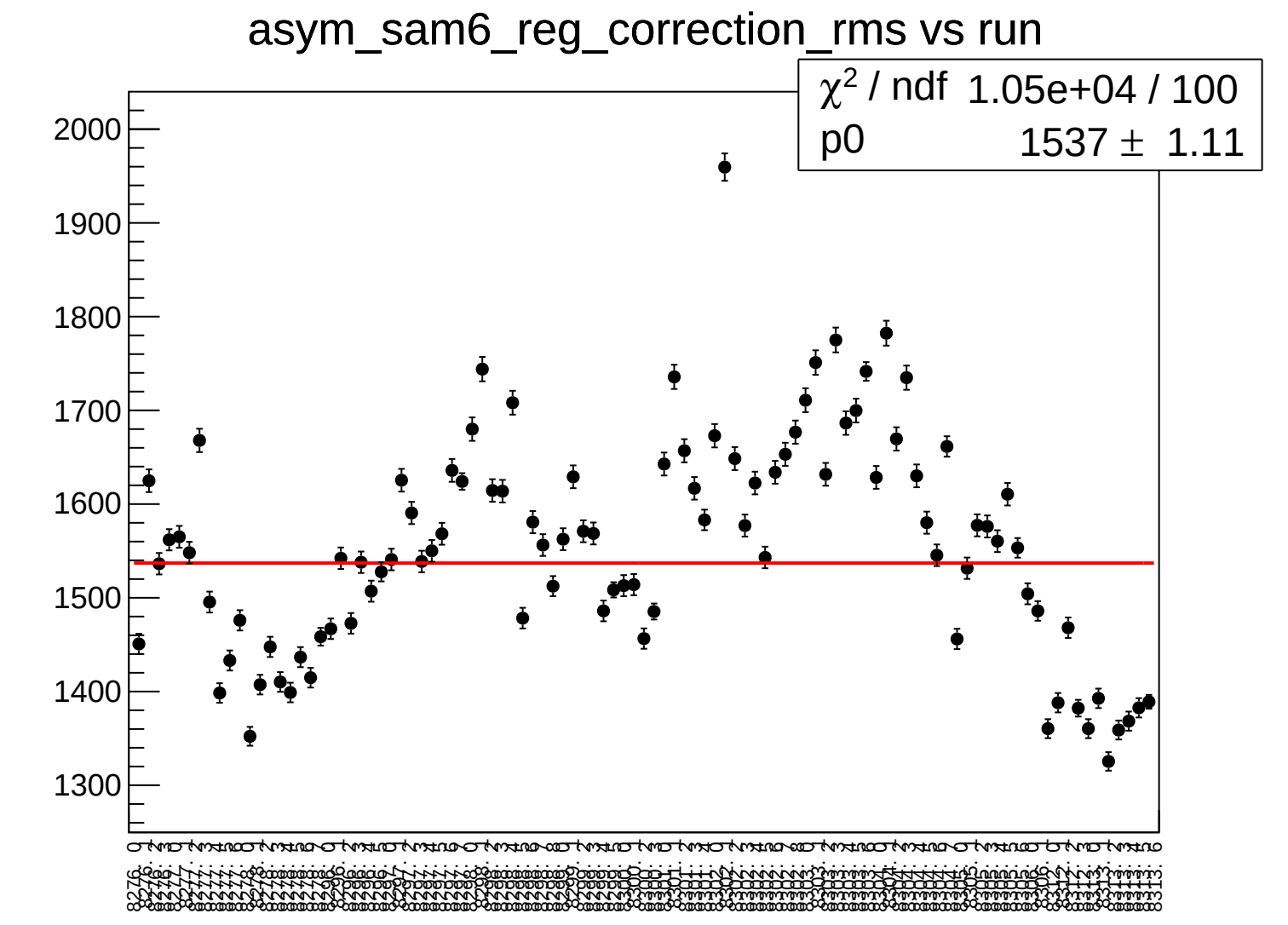

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.25
0.2
0.15
0.1
0.05
χ² / ndf 6.471e+05 / 100
p0 2.32e−11 ± 2.051e−14

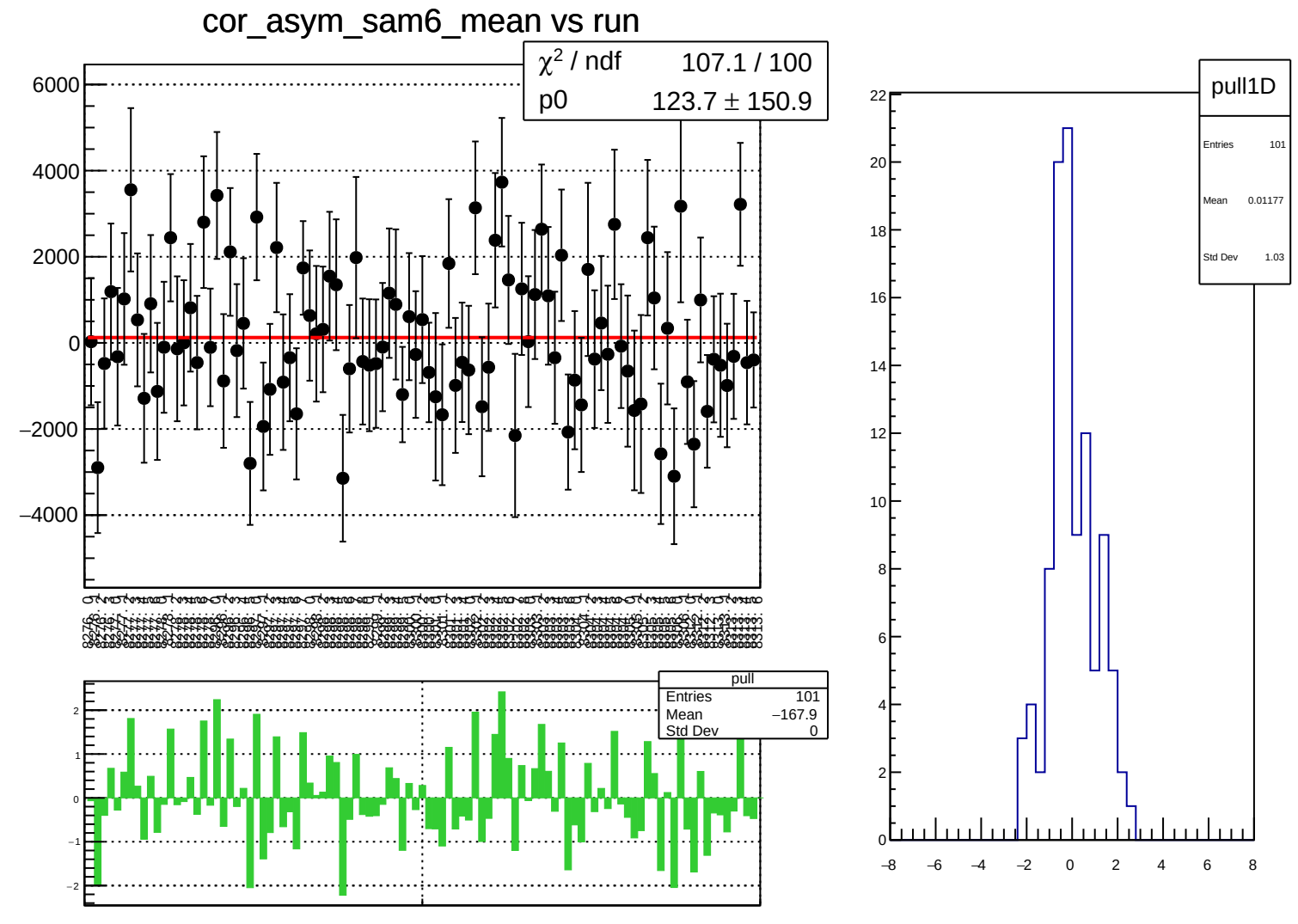

reg_asym_sam6_mean vs run
χ² / ndf 107.1 / 100
p0 123.7 ± 150.9
pull
Entries 101
Mean −167.9
Std Dev 0
pull1D
Entries 101
Mean 0.01177
Std Dev 1.03

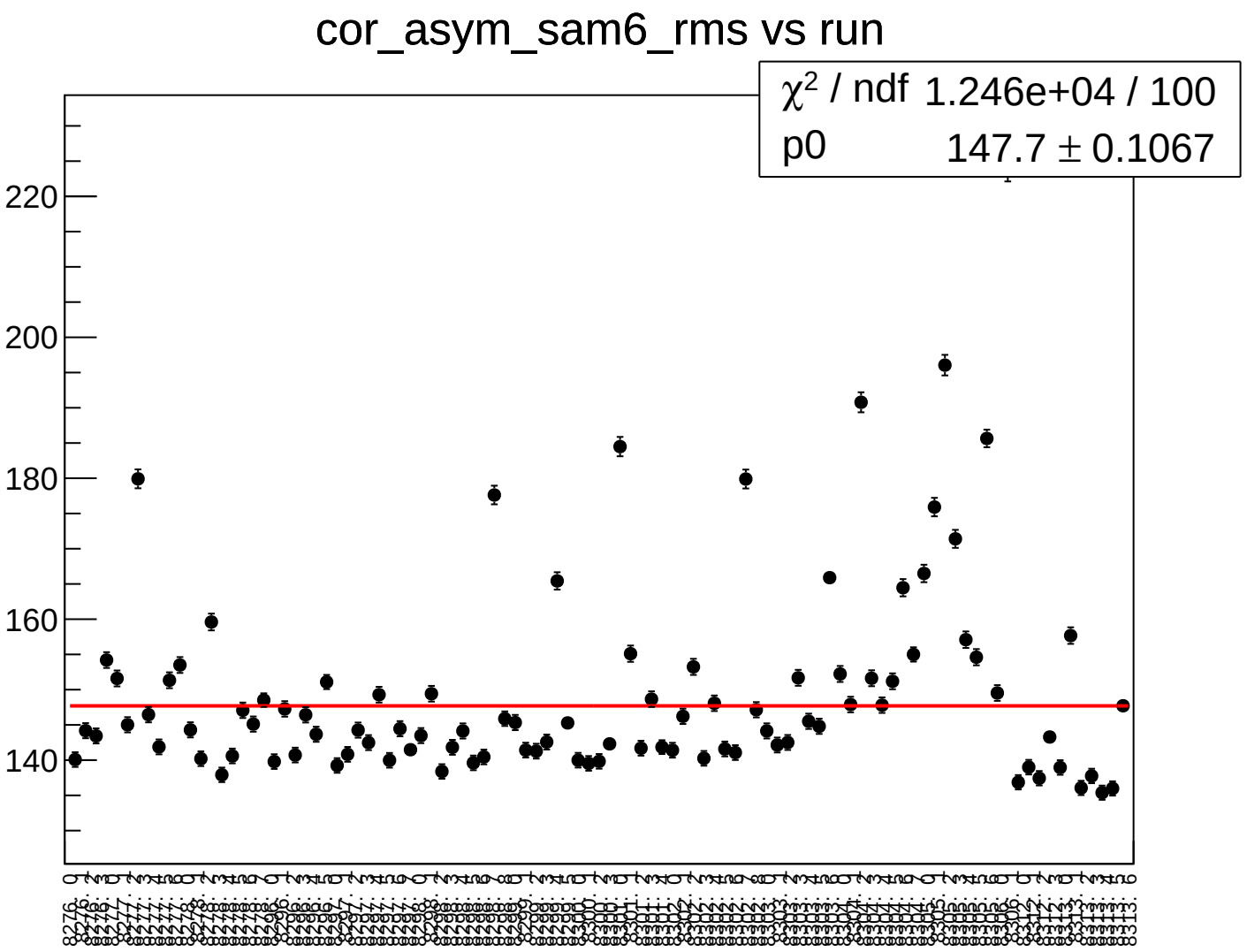

reg_asym_sam6_rms vs run
χ² / ndf 1.246e+04 / 100
p0 147.7 ± 0.1067
220
200
180
160
140

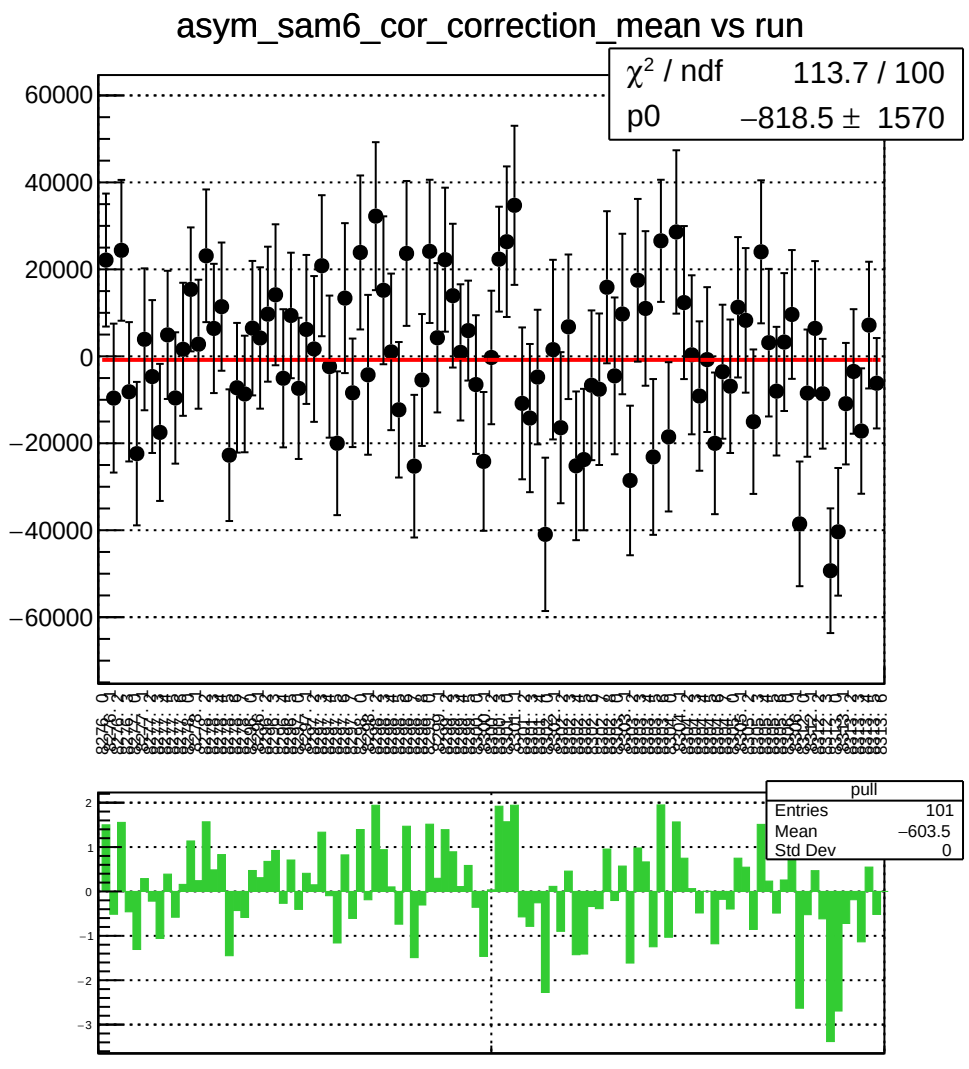

asym_sam6_reg_correction_mean vs run
χ² / ndf 113.7 / 100
p0 −818.5 ± 1570
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −603.4
Std Dev 0
2
1
0
−1
−2
−3

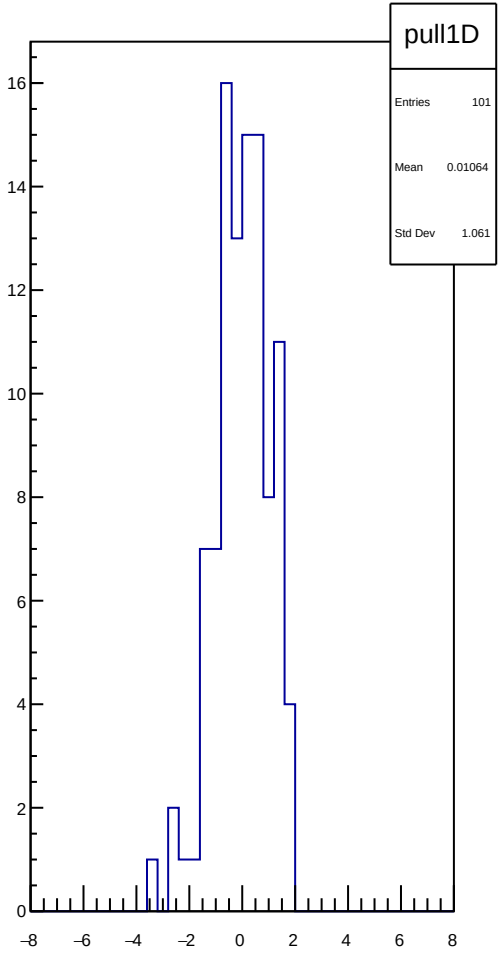

pull1D
Entries 101
Mean 0.01064
Std Dev 1.061
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

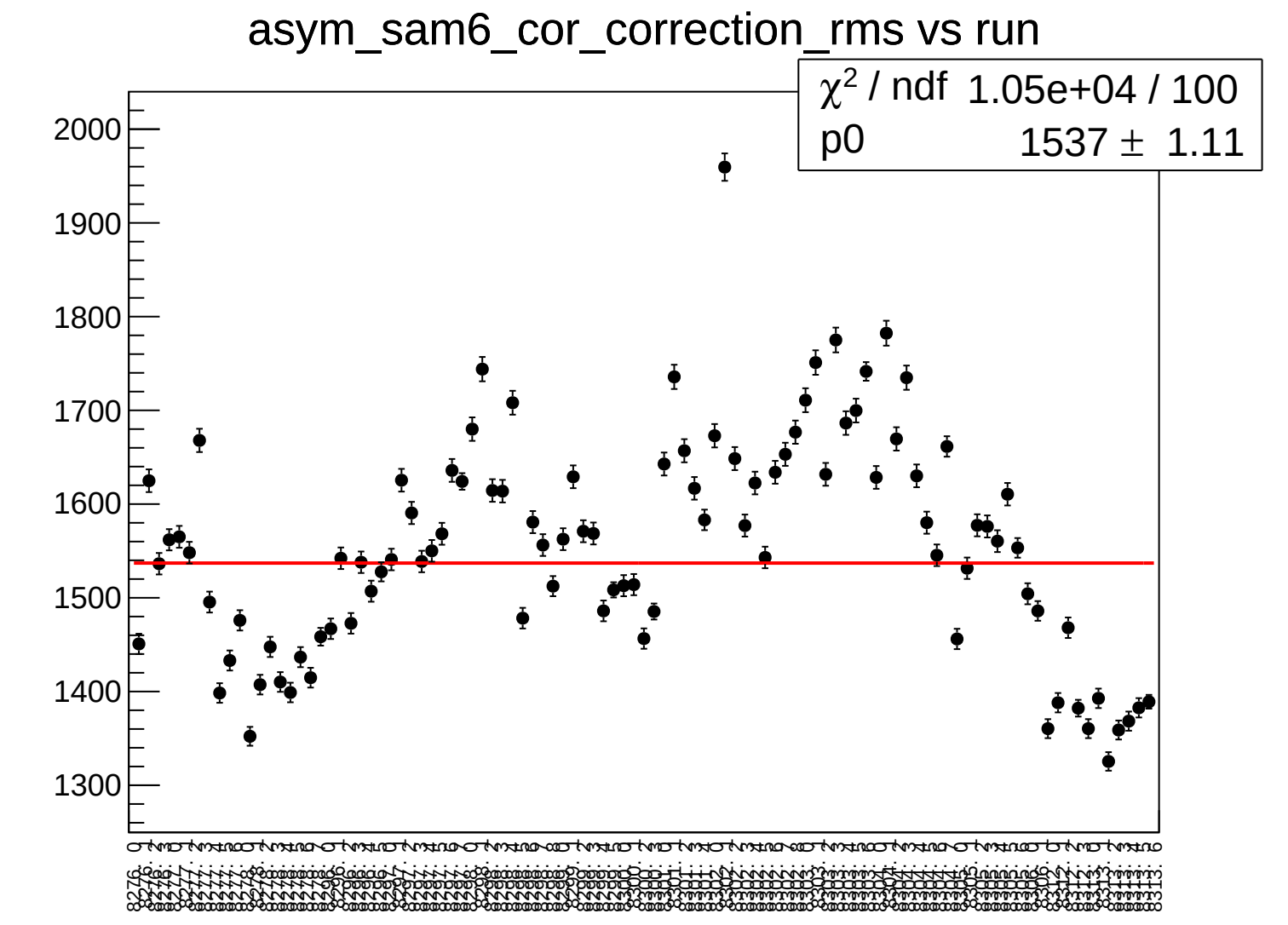

asym_sam6_reg_correction_rms vs run
χ² / ndf 1.05e+04 / 100
p0 1537 ± 1.11
2000
1900
1800
1700
1600
1500
1400
1300

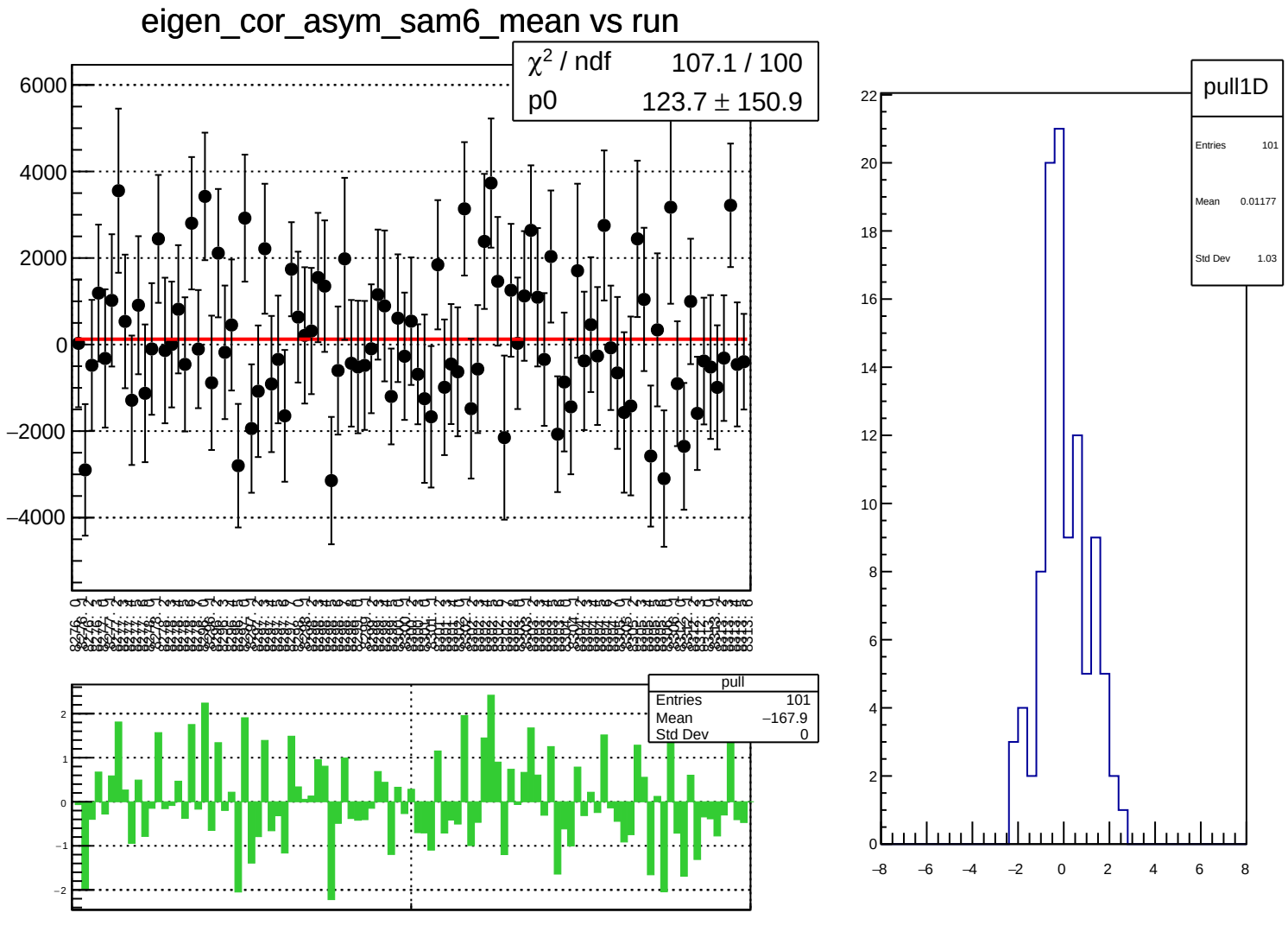

cor_asym_sam6_mean vs run
χ² / ndf 107.1 / 100
p0 123.7 ± 150.9
6000
4000
2000
0
−2000
−4000
pull
Entries 101
Mean −167.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.01177
Std Dev 1.03
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

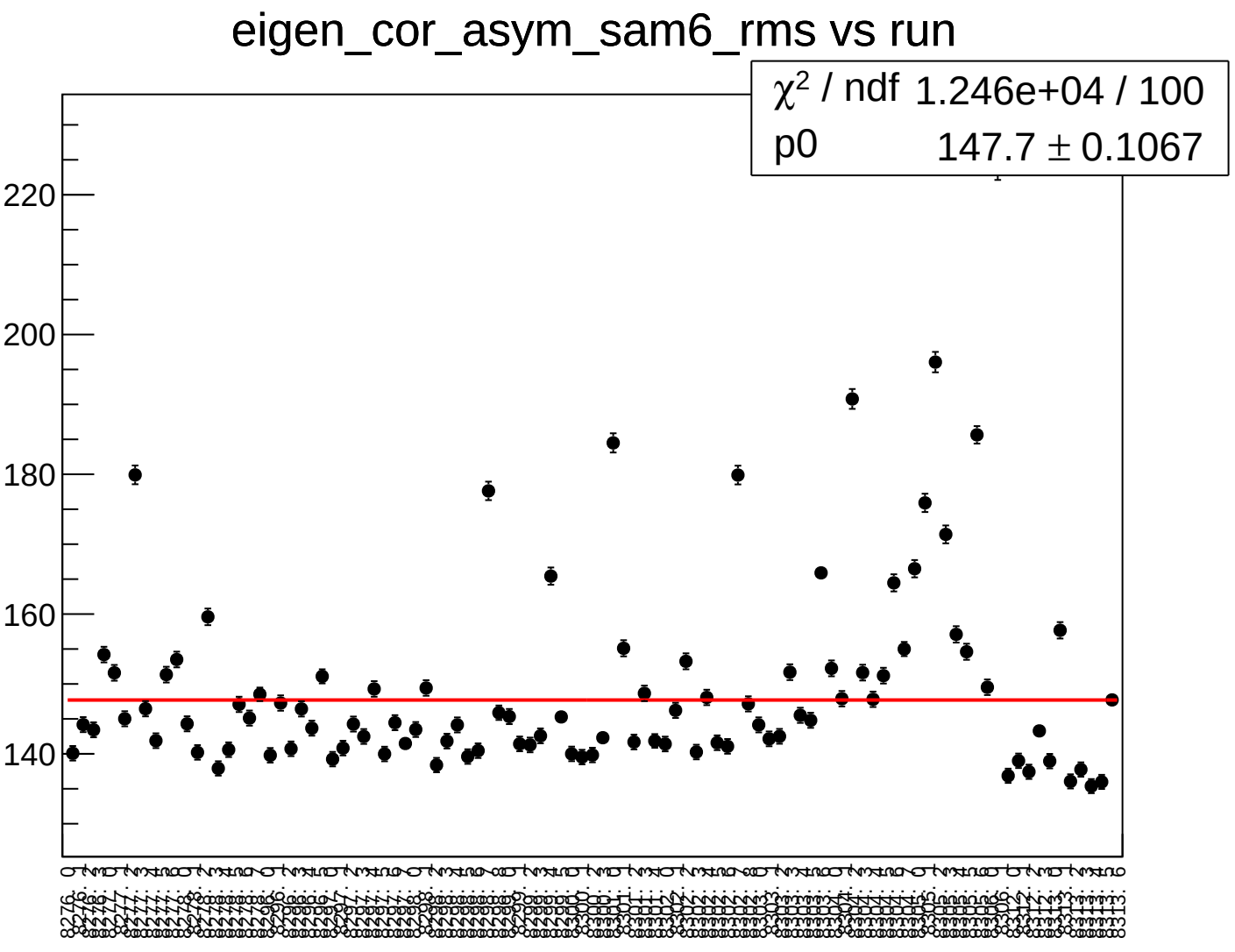

cor_asym_sam6_rms vs run
χ² / ndf 1.246e+04 / 100
p0 147.7 ± 0.1067
220
200
180
160
140

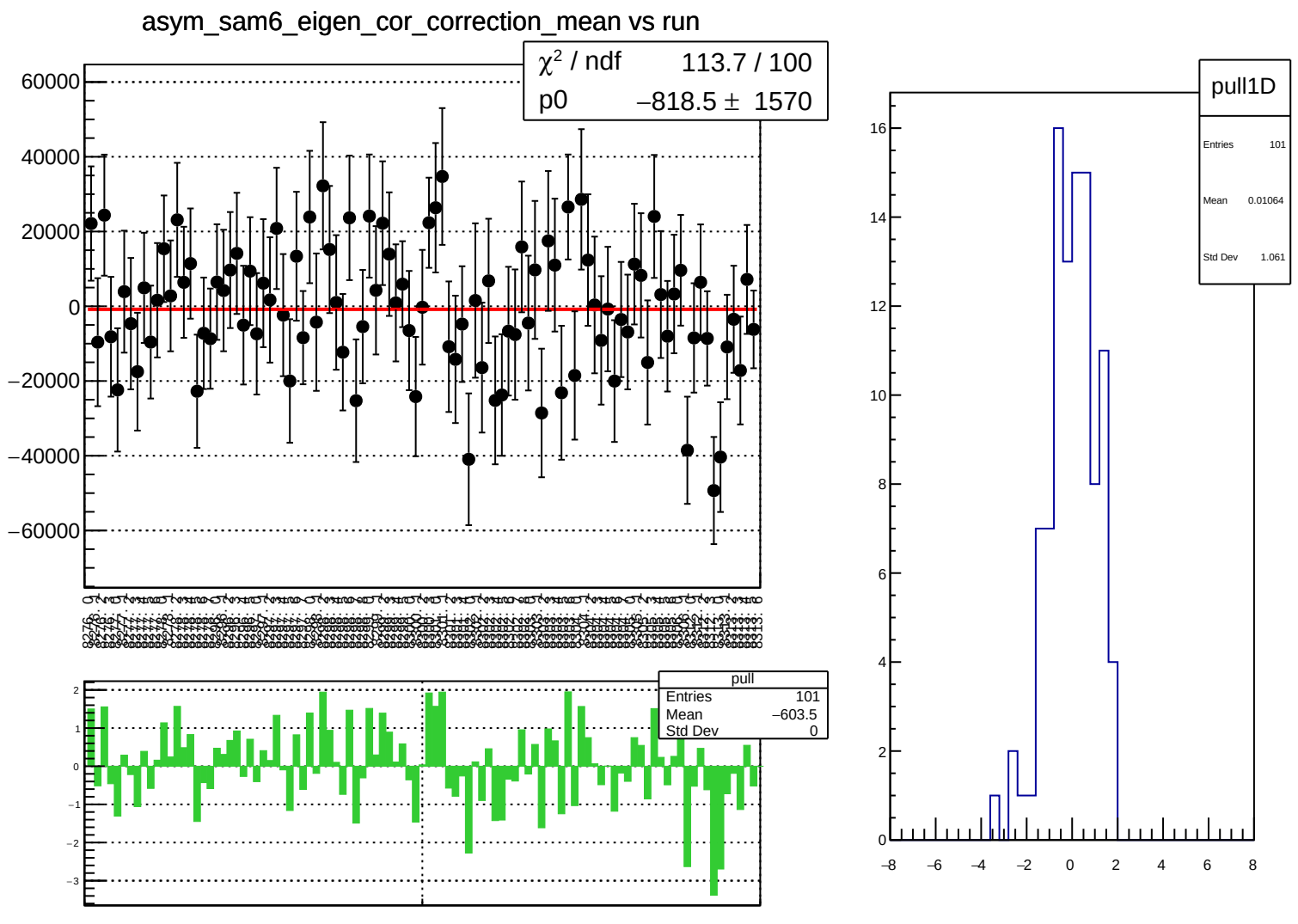

asym_sam6_cor_correction_mean vs run
χ² / ndf 113.7 / 100
p0 −818.5 ± 1570
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −603.5
Std Dev 0
2
1
0
−1
−2
−3

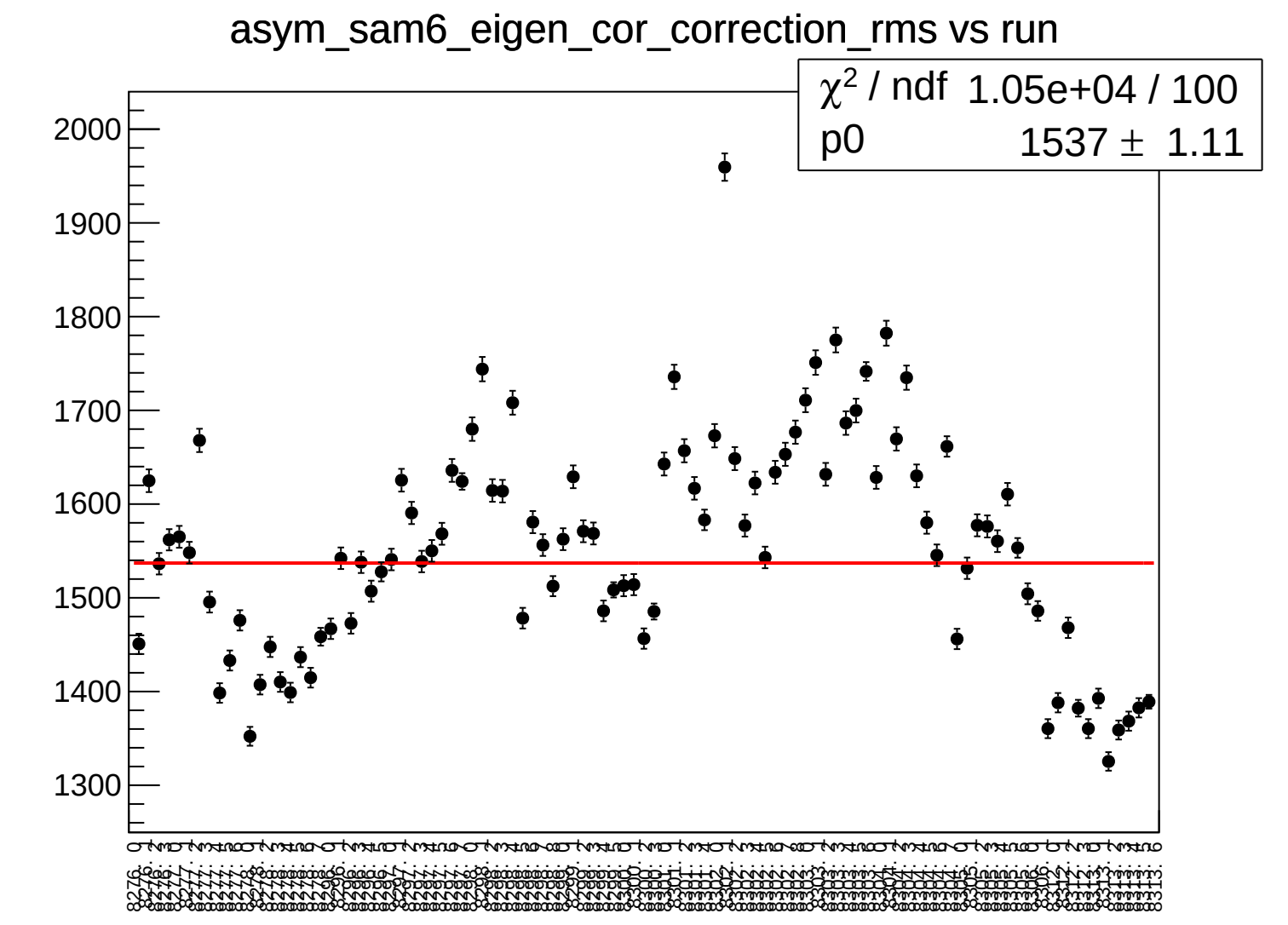

pull1D
Entries 101
Mean 0.01064
Std Dev 1.061
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

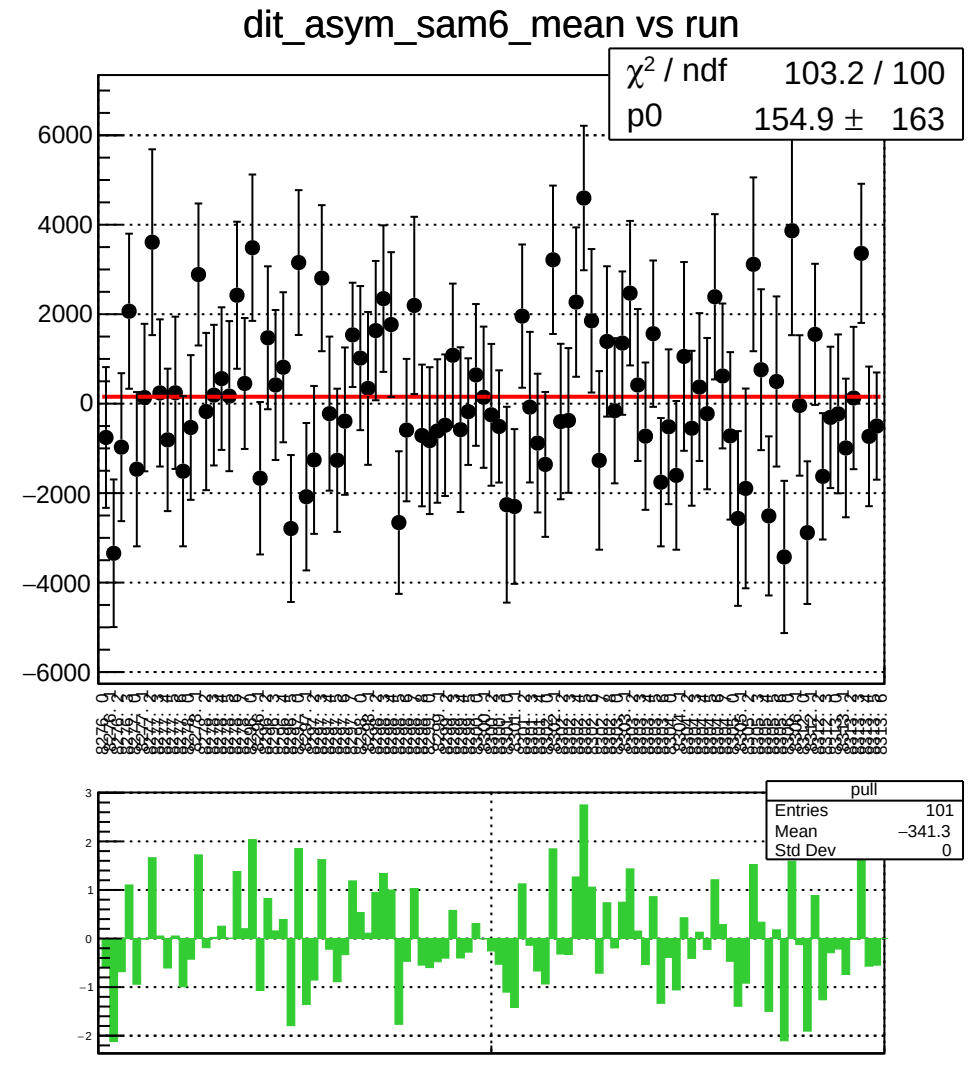

asym_sam6_cor_correction_rms vs run
χ² / ndf 1.05e+04 / 100
p0 1537 ± 1.11
2000
1900
1800
1700
1600
1500
1400
1300

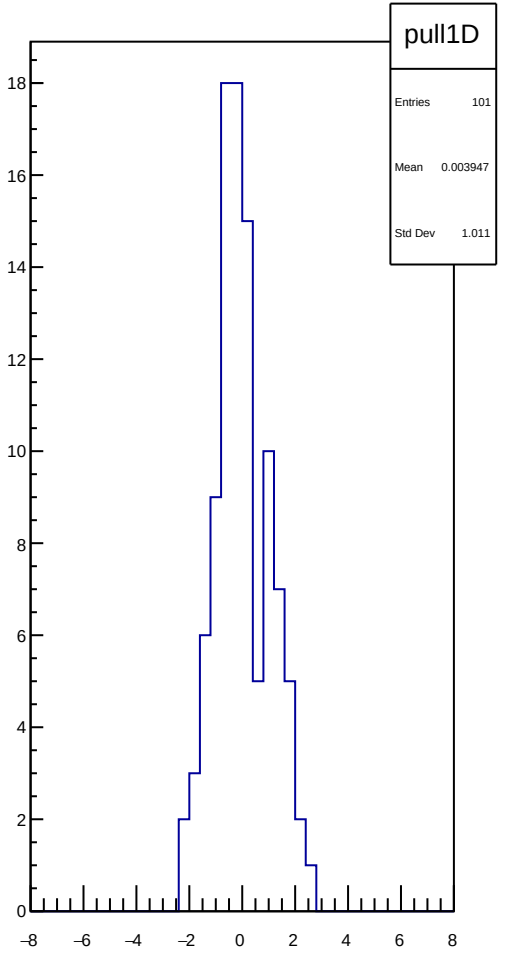

eigen_cor_asym_sam6_mean vs run
χ² / ndf 107.1 / 100
p0 123.7 ± 150.9
6000
4000
2000
0
−2000
−4000
pull
Entries 101
Mean −167.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.01177
Std Dev 1.03
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

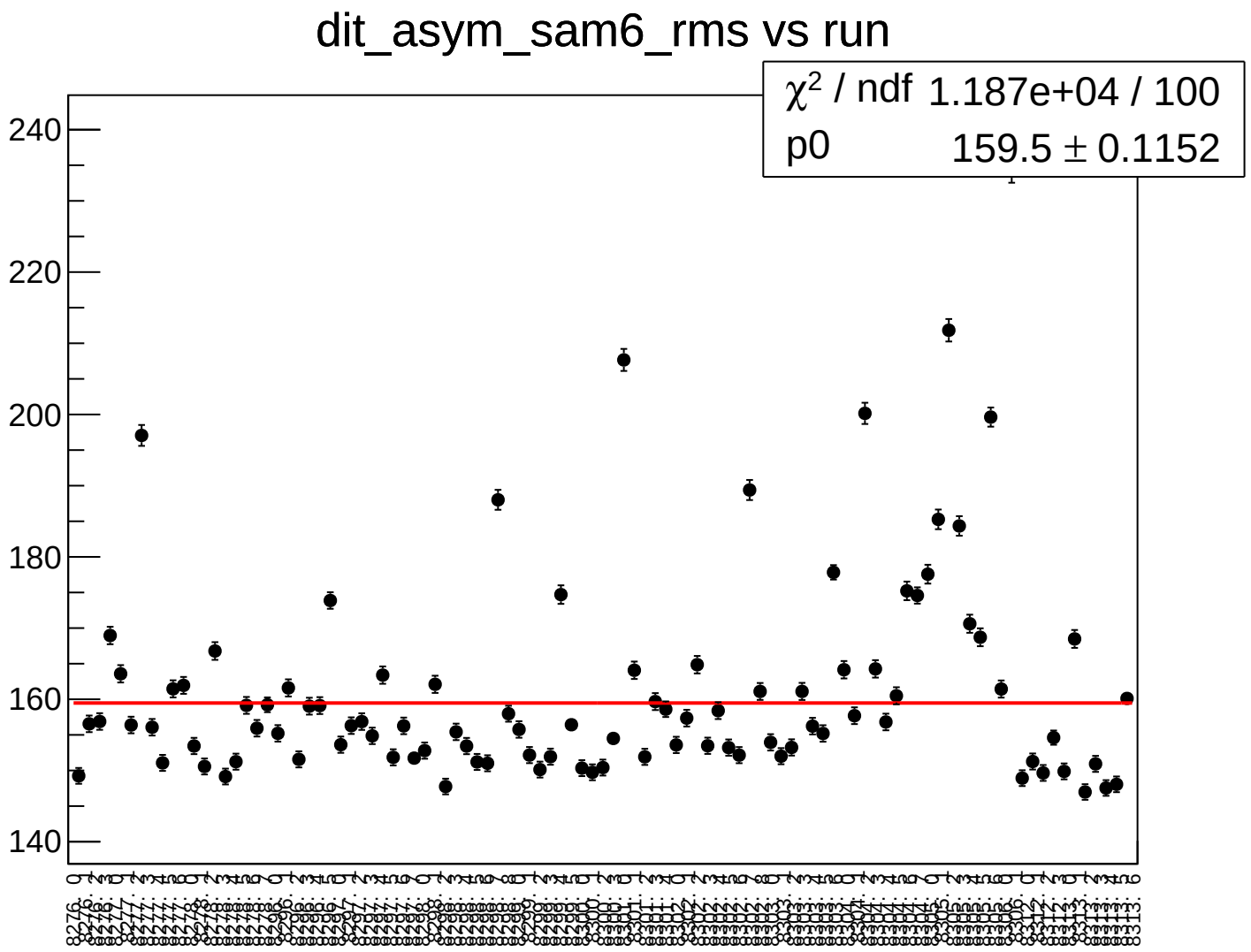

eigen_cor_asym_sam6_rms vs run
χ² / ndf 1.246e+04 / 100
p0 147.7 ± 0.1067
220
200
180
160
140

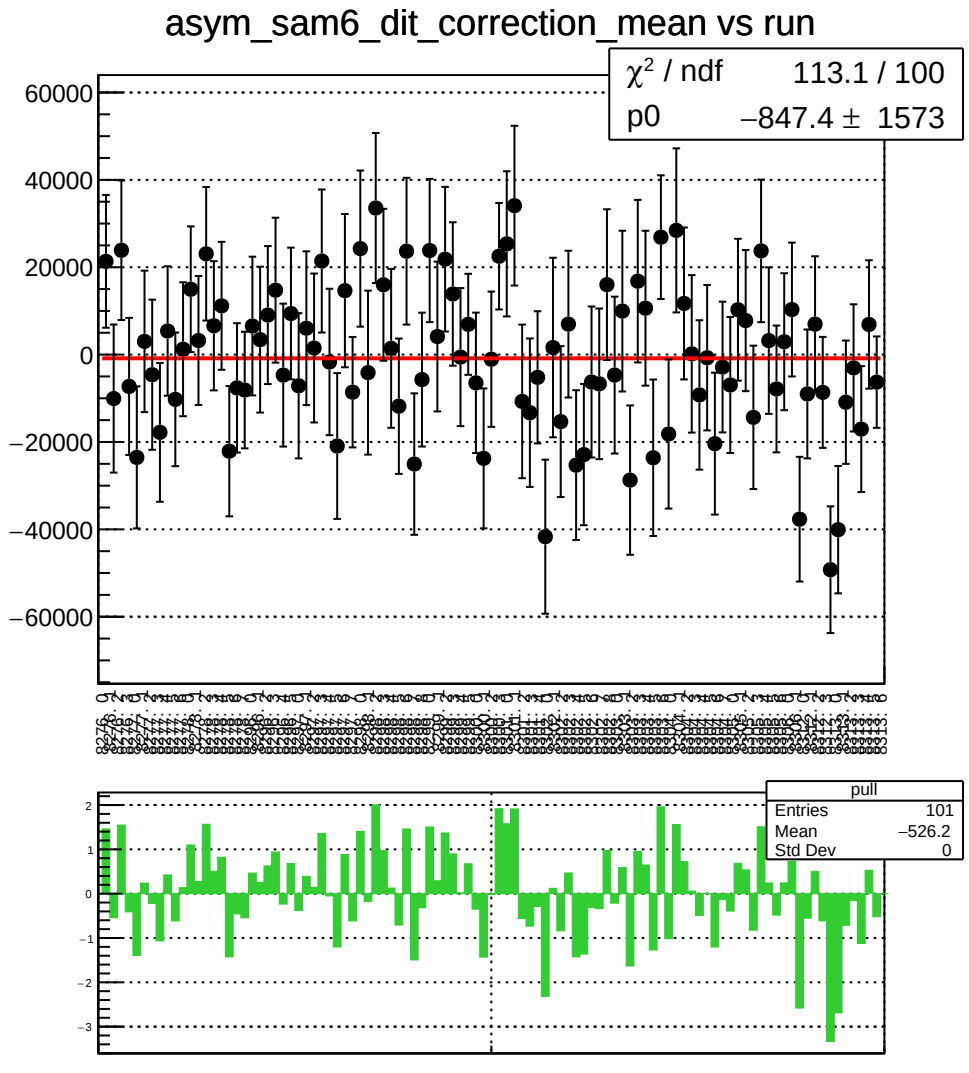

asym_sam6_eigen_cor_correction_mean vs run
χ² / ndf 113.7 / 100
p0 −818.5 ± 1570
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −603.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.01064
Std Dev 1.061
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

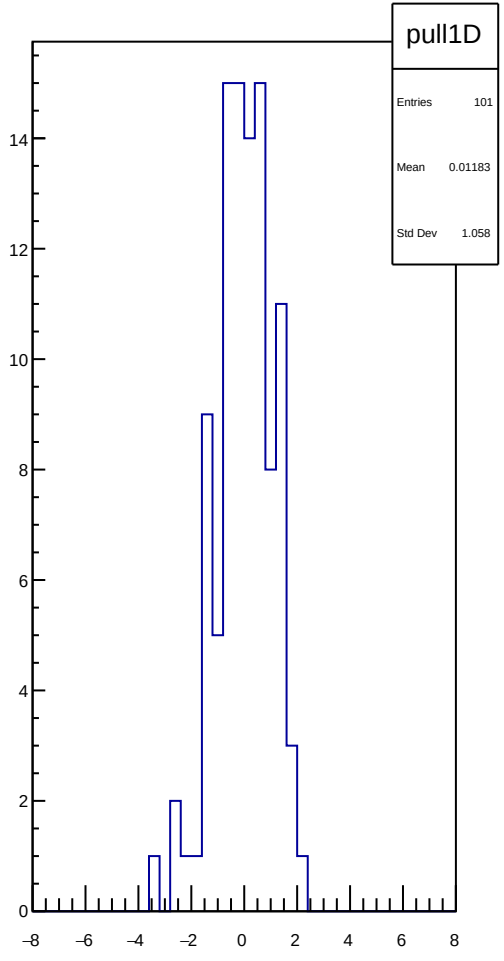

asym_sam6_eigen_cor_correction_rms vs run
χ² / ndf 1.05e+04 / 100
p0 1537 ± 1.11
2000
1900
1800
1700
1600
1500
1400
1300

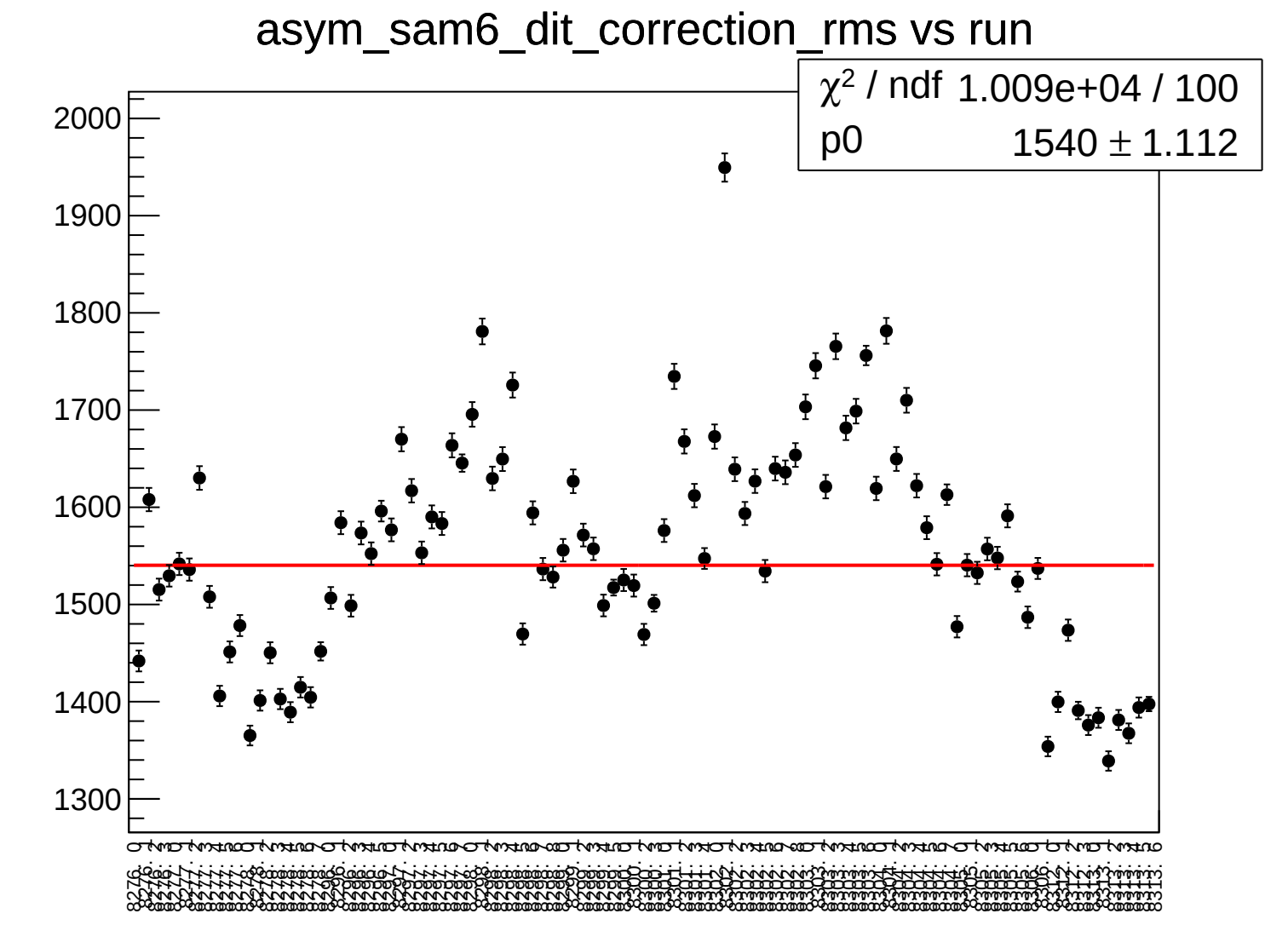

dit_asym_sam6_mean vs run
χ² / ndf 103.2 / 100
p0 154.9 ± 163
pull
Entries 101
Mean −341.3
Std Dev 0

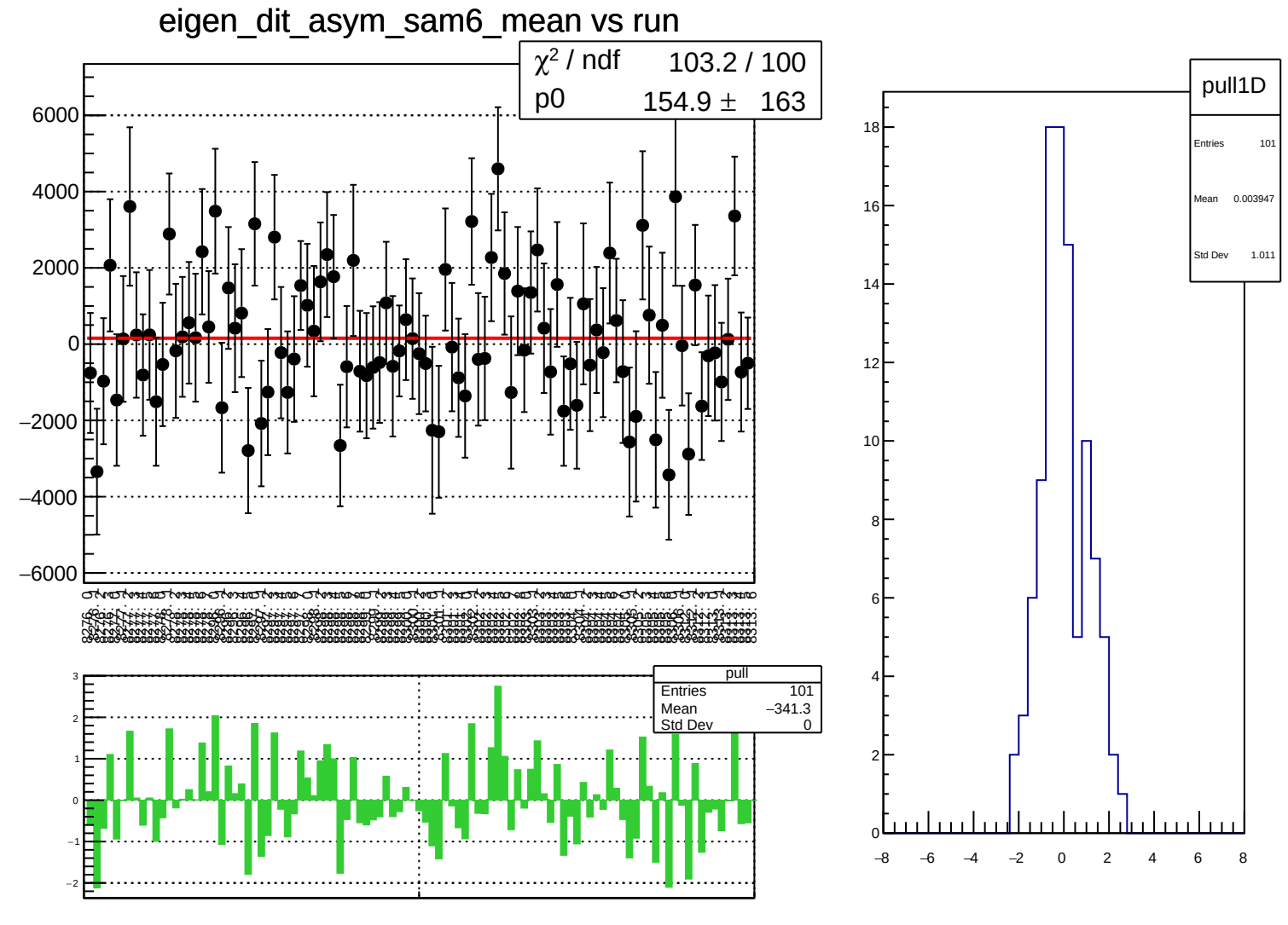

pull1D
Entries 101
Mean 0.003947
Std Dev 1.011

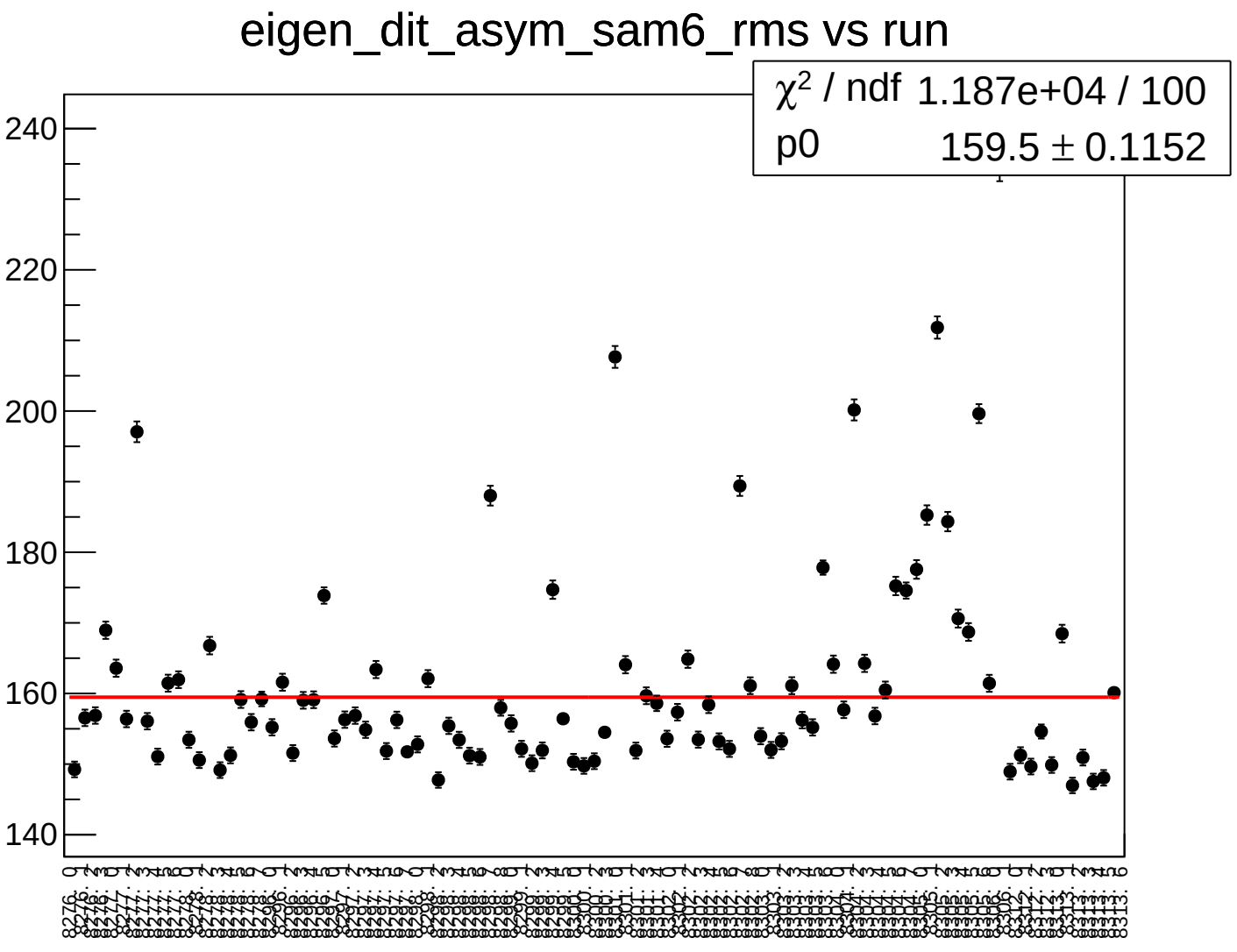

dit_asym_sam6_rms vs run
χ² / ndf 1.187e+04 / 100
p0 159.5 ± 0.1152
240
220
200
180
160
140

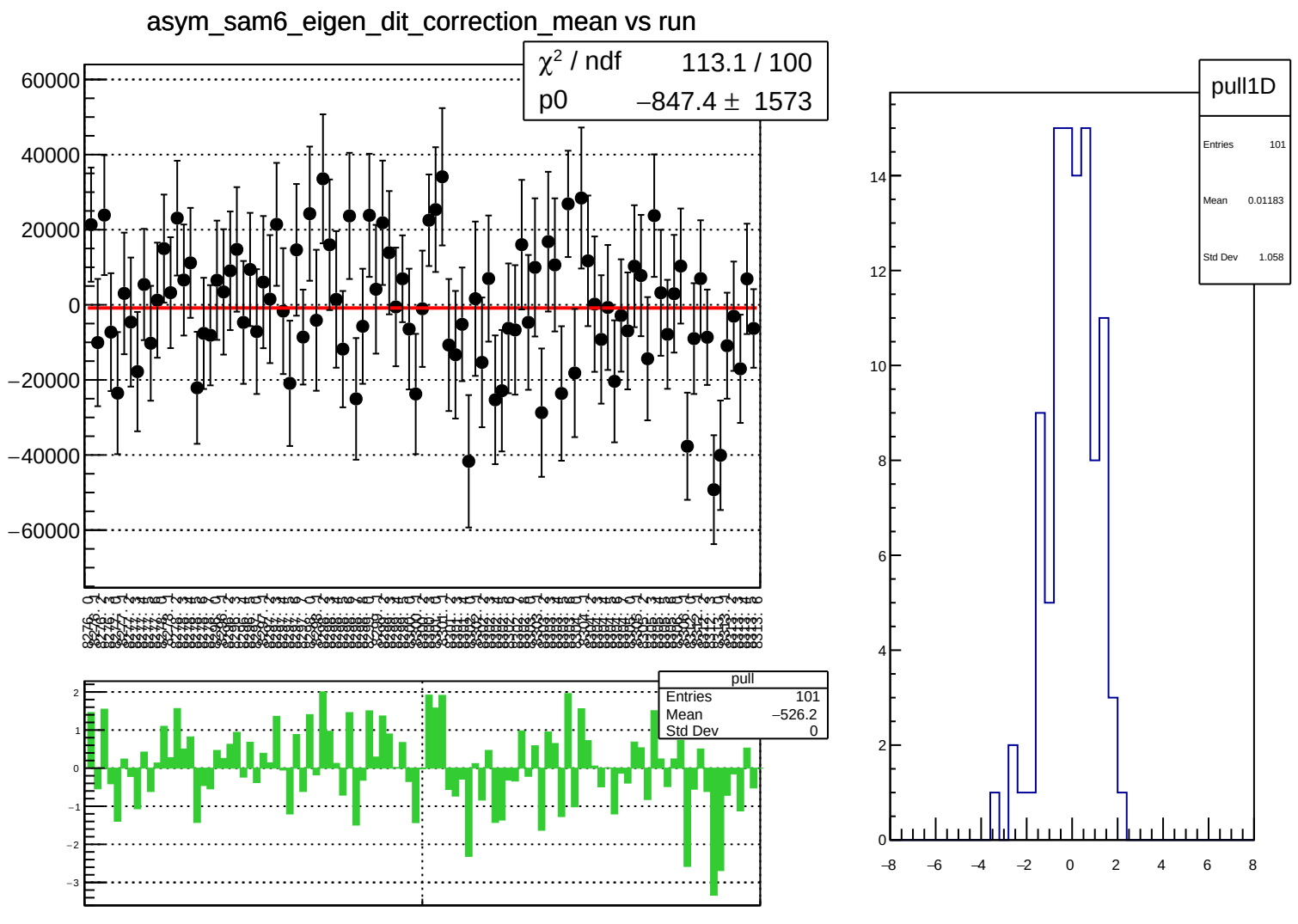

asym_sam6_dit_correction_mean vs run
χ² / ndf 113.1 / 100
p0 −847.4 ± 1573
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −526.2
Std Dev 0
2
1
0
−1
−2
−3

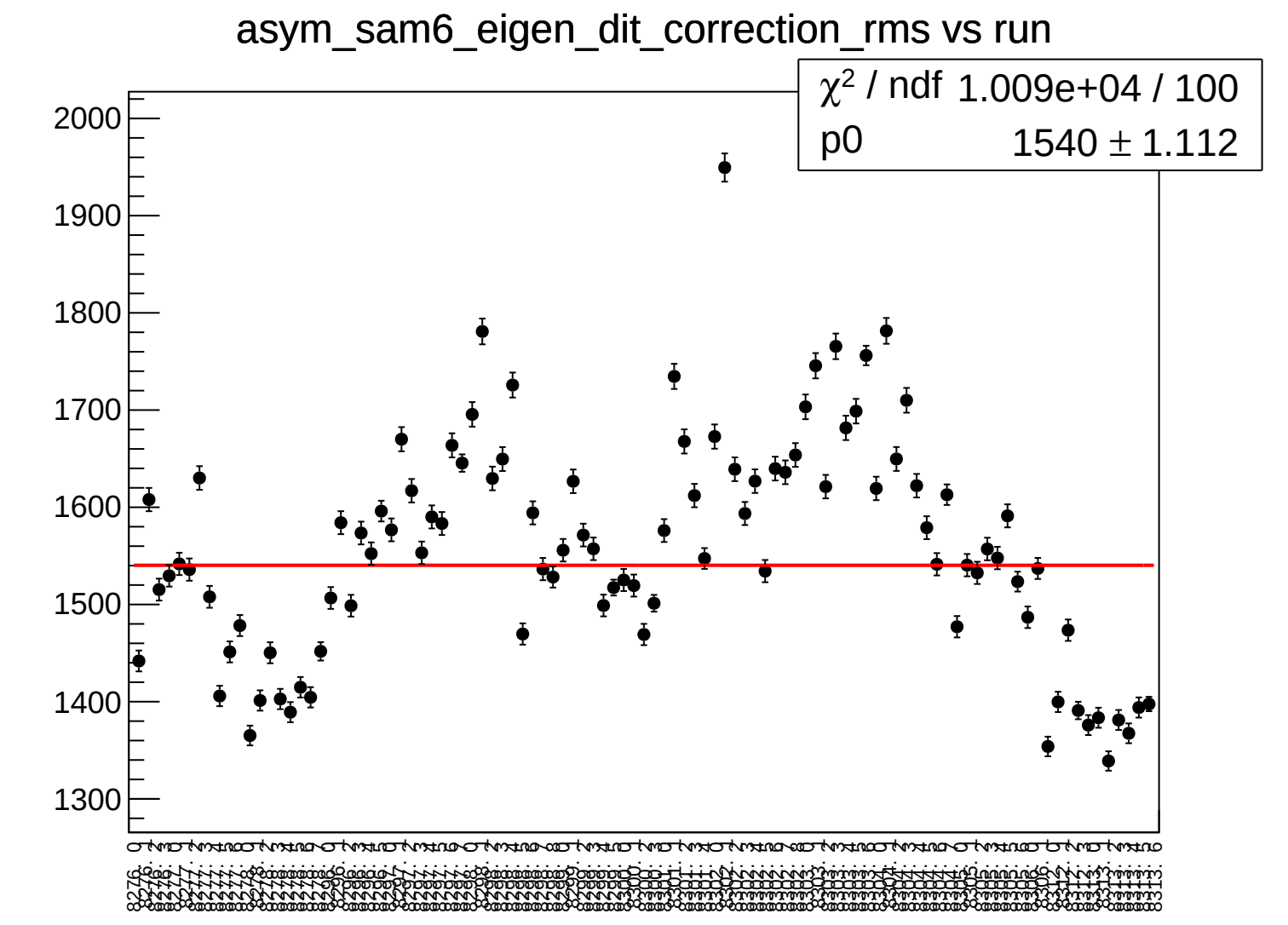

pull1D
Entries 101
Mean 0.01183
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

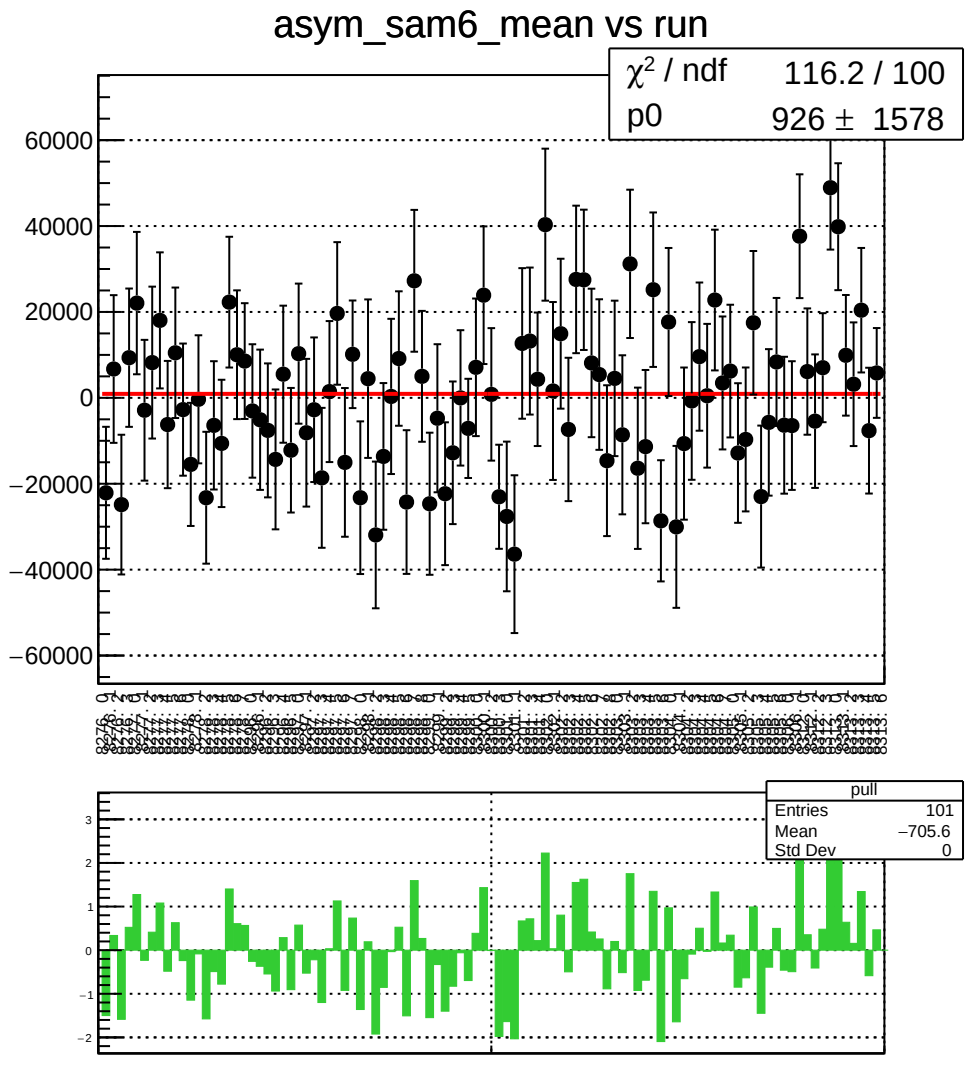

asym_sam6_dit_correction_rms vs run
χ² / ndf 1.009e+04 / 100
p0 1540 ± 1.112
2000
1900
1800
1700
1600
1500
1400
1300

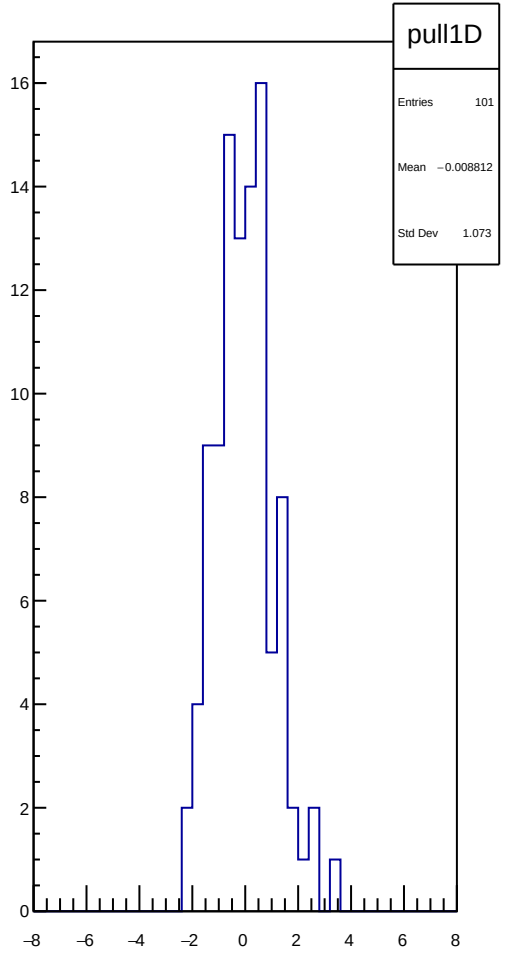

eigen_dit_asym_sam6_mean vs run
χ² / ndf 103.2 / 100
p0 154.9 ± 163
pull
Entries 101
Mean −341.3
Std Dev 0
pull1D
Entries 101
Mean 0.003947
Std Dev 1.011

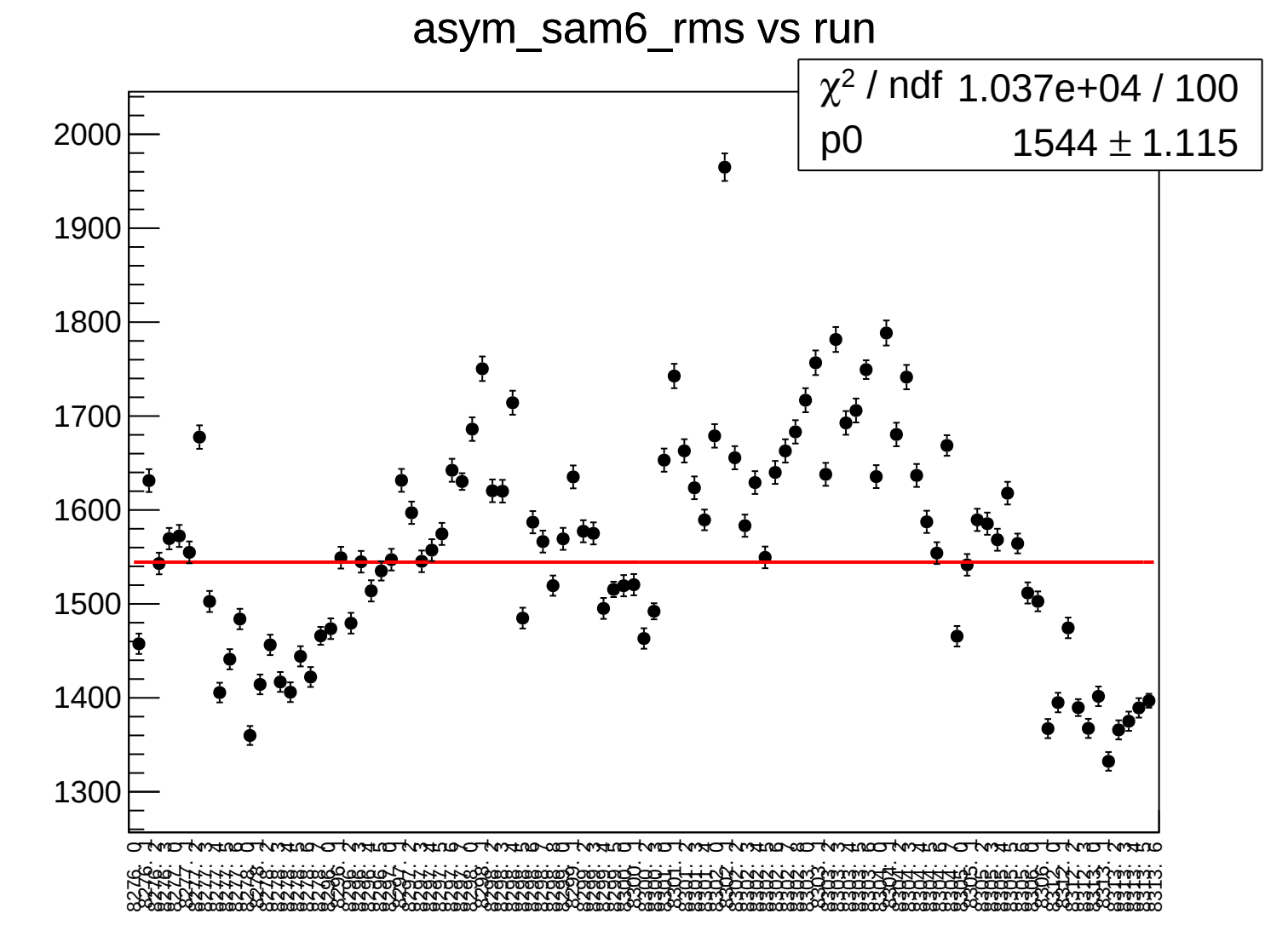

eigen_dit_asym_sam6_rms vs run
χ² / ndf 1.187e+04 / 100
p0 159.5 ± 0.1152
240
220
200
180
160
140

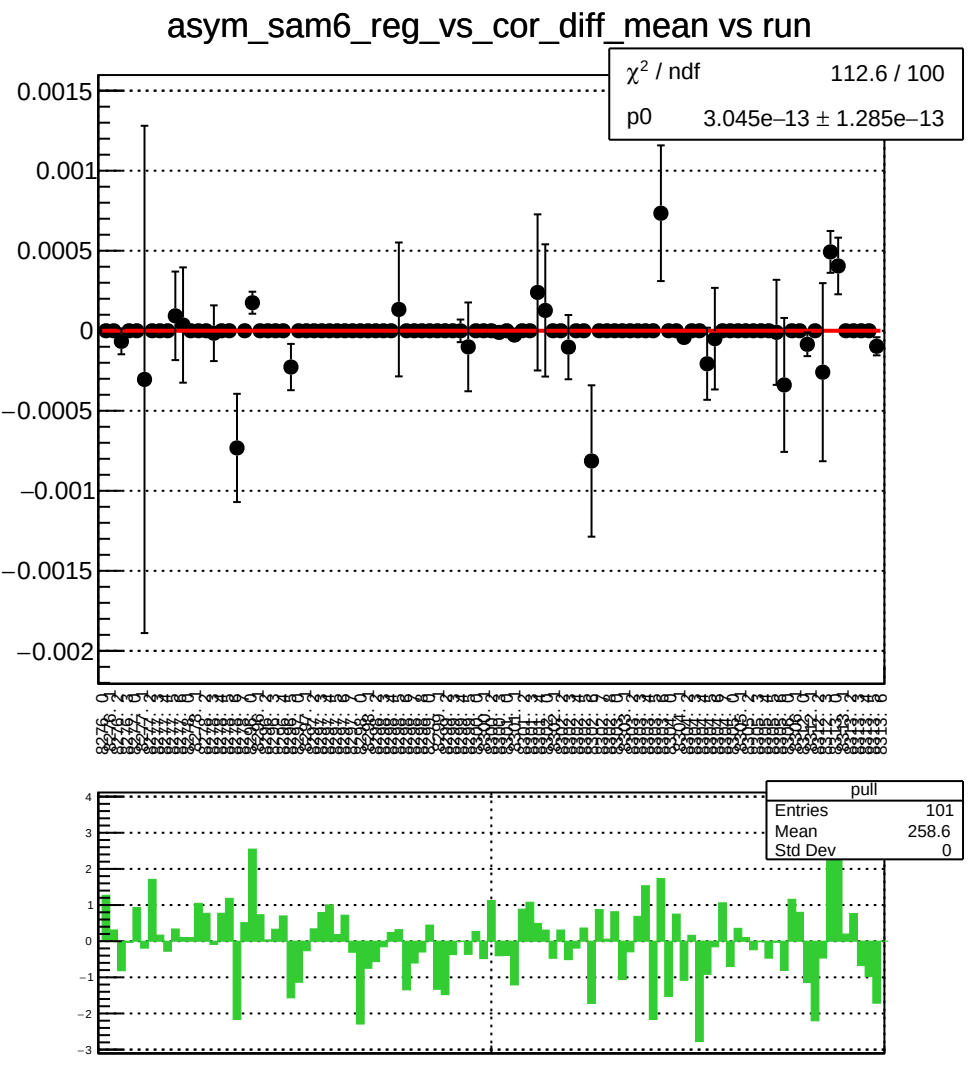

asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 113.1 / 100
p0 −847.4 ± 1573
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −526.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.01183
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

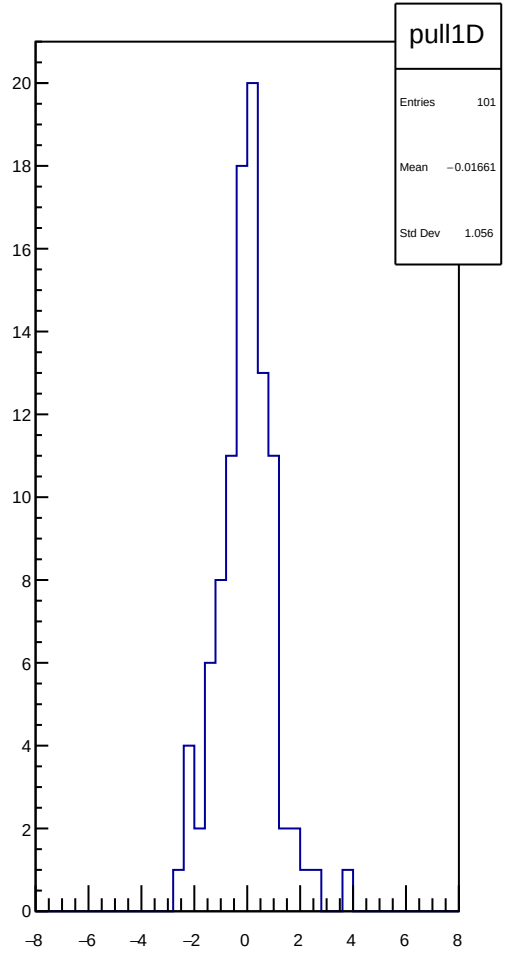

asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 1.009e+04 / 100
p0 1540 ± 1.112
2000
1900
1800
1700
1600
1500
1400
1300

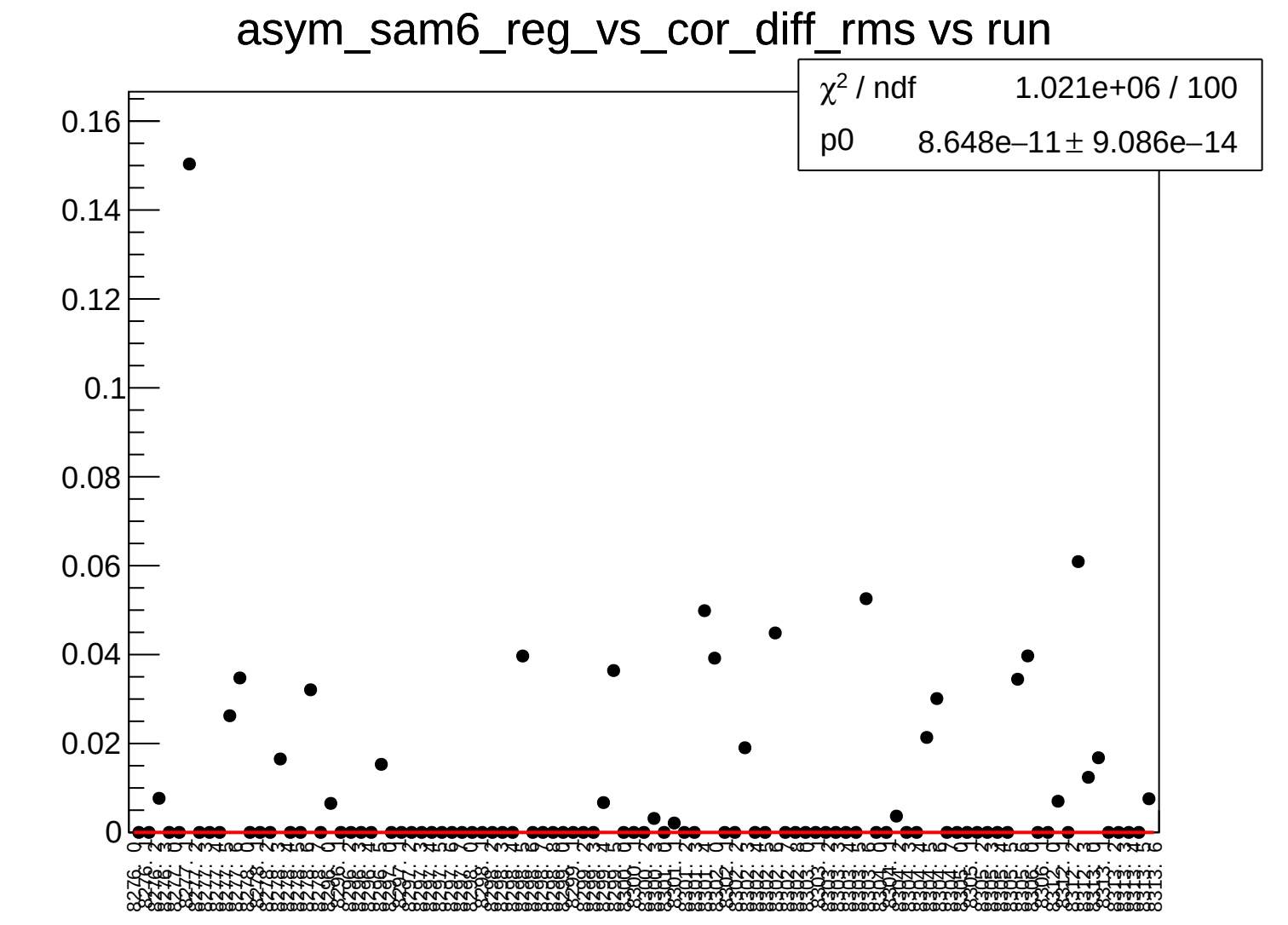

asym_sam6_mean vs run
χ² / ndf 116.2 / 100
p0 926 ± 1578
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −705.6
Std Dev 0
3
2
1
0
−1
−2

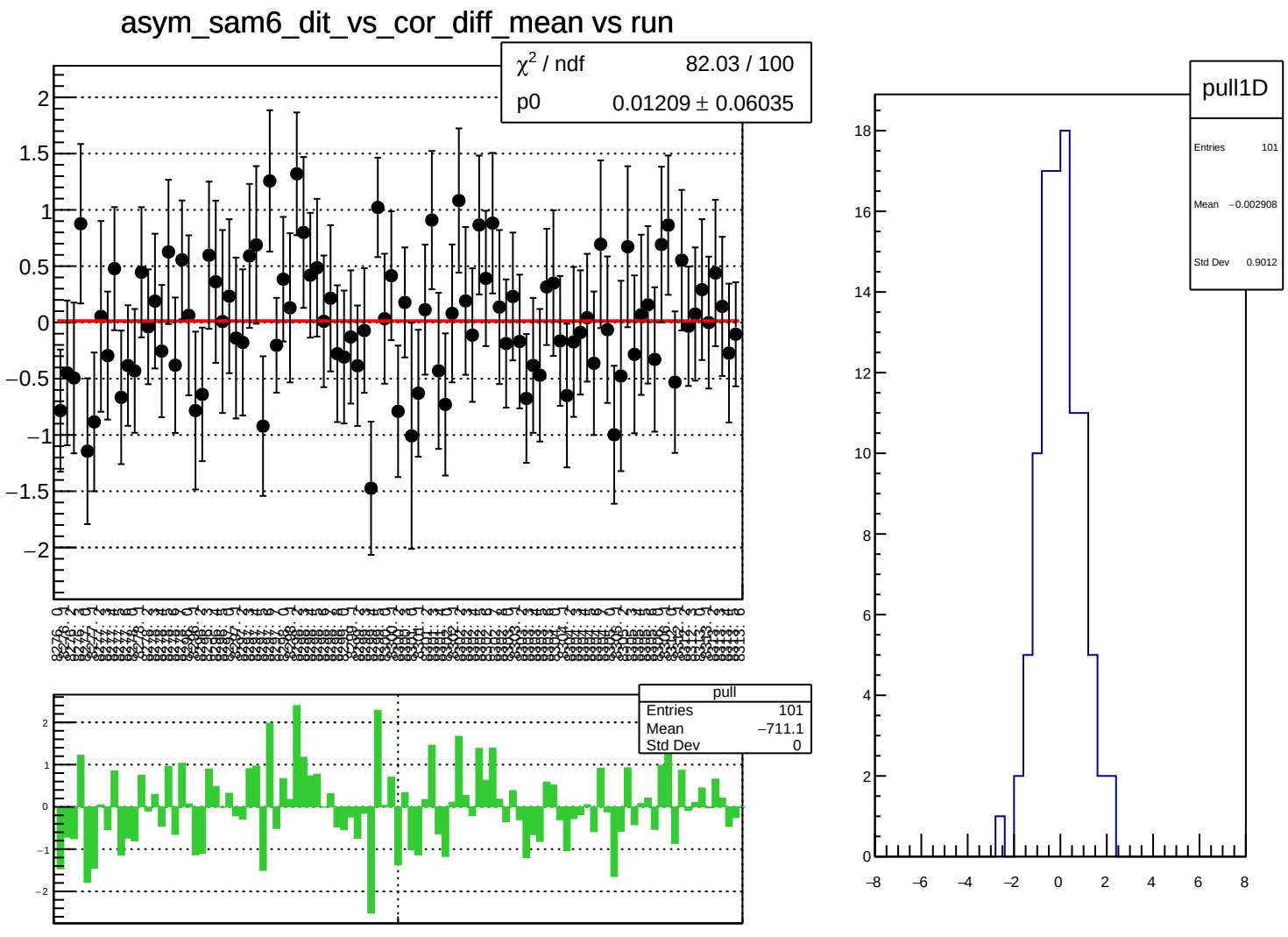

pull1D
Entries 101
Mean −0.008812
Std Dev 1.073
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

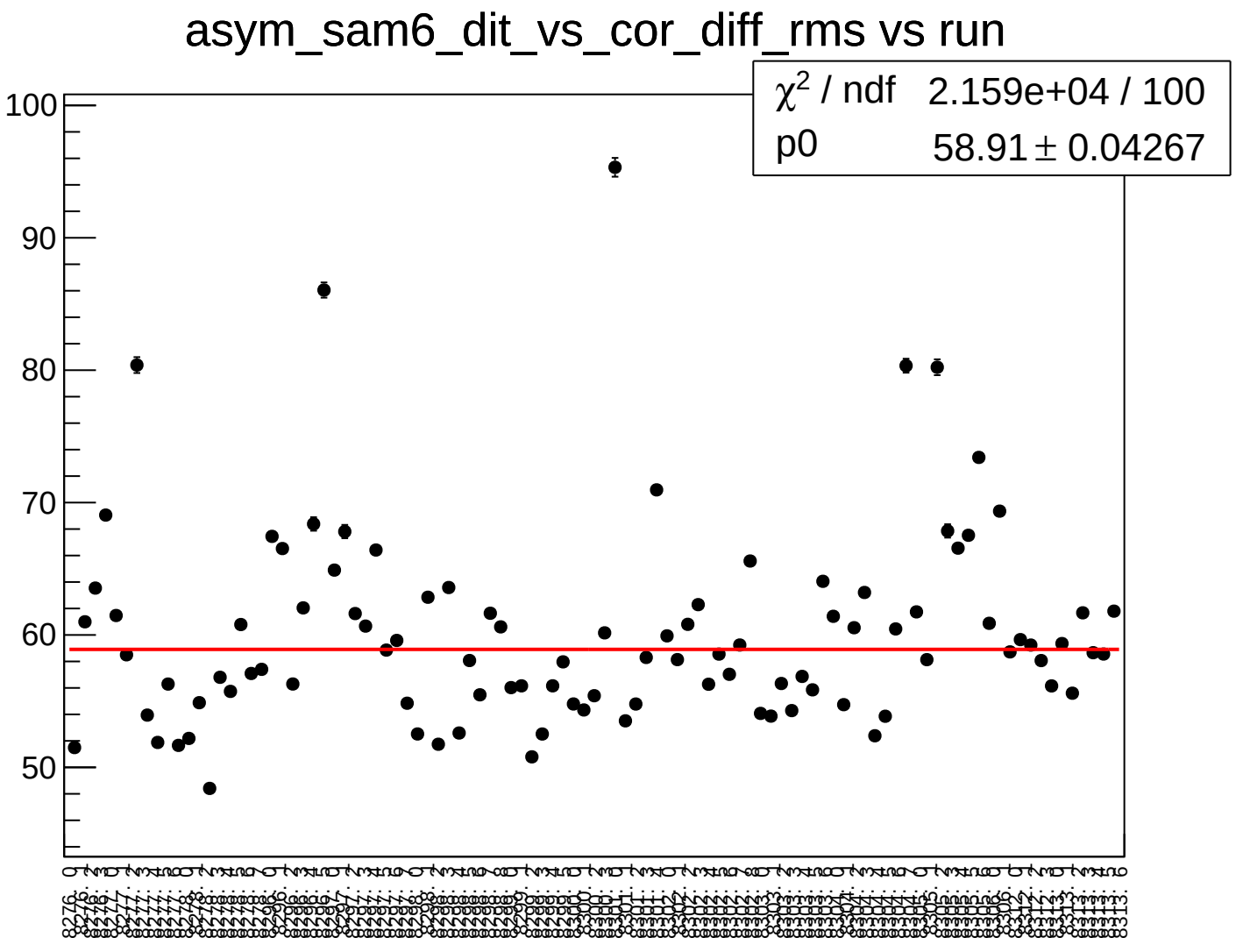

asym_sam6_rms vs run
χ² / ndf 1.037e+04 / 100
p0 1544 ± 1.115
2000
1900
1800
1700
1600
1500
1400
1300

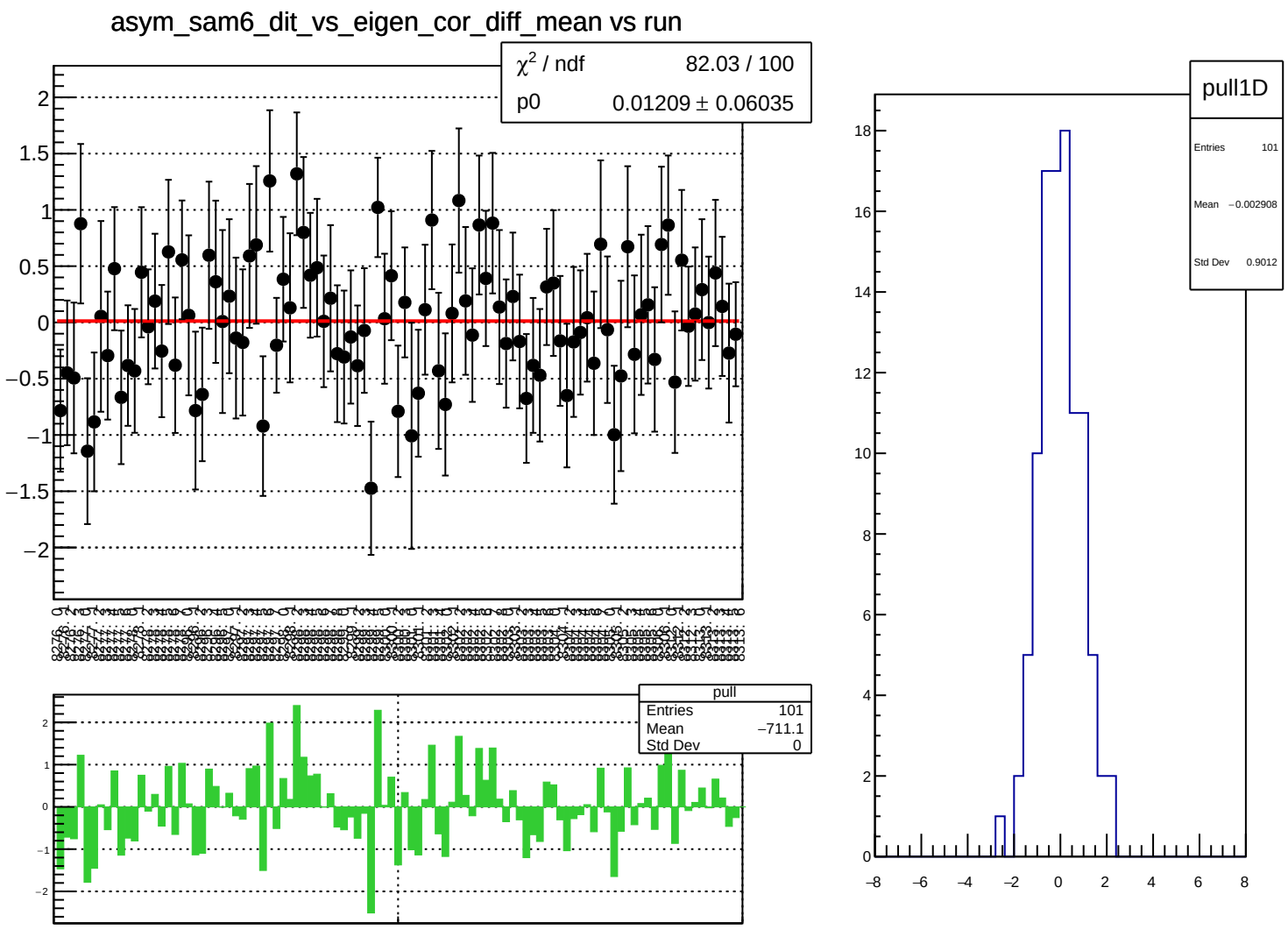

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 112.6 / 100
p0 3.045e−13 ± 1.285e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 101
Mean 258.6
Std Dev 0
4
3
2
1
0
−1
−2
−3

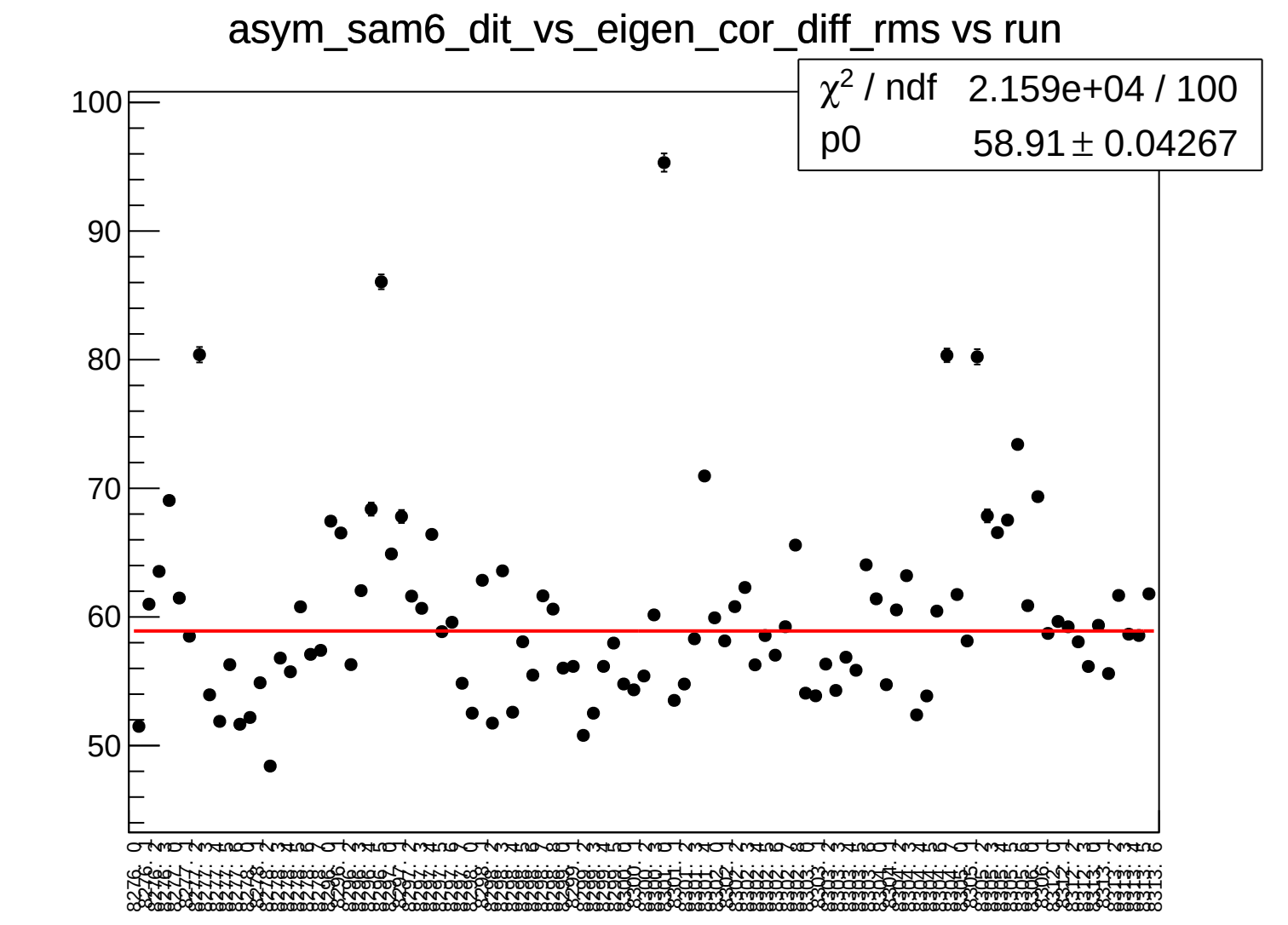

pull1D
Entries 101
Mean −0.01661
Std Dev 1.056
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

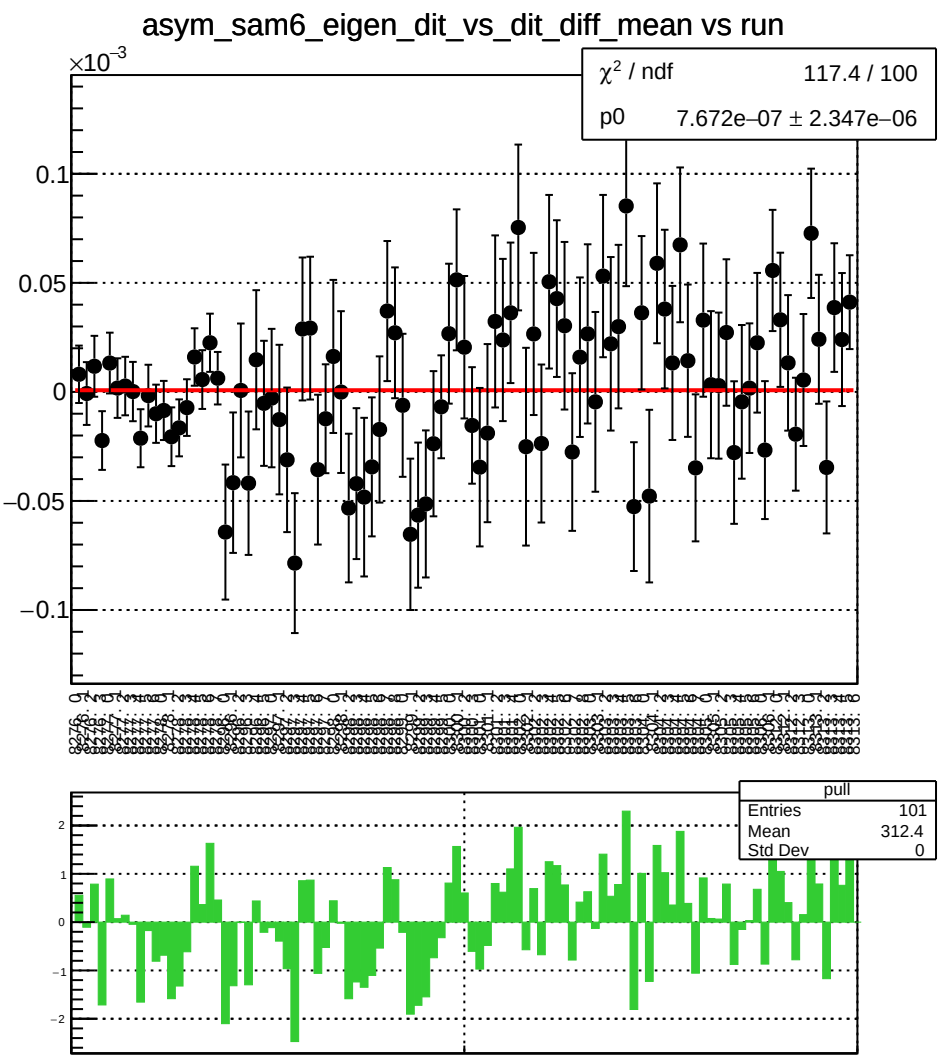

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 1.021e+06 / 100
p0 8.648e−11 ± 9.086e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

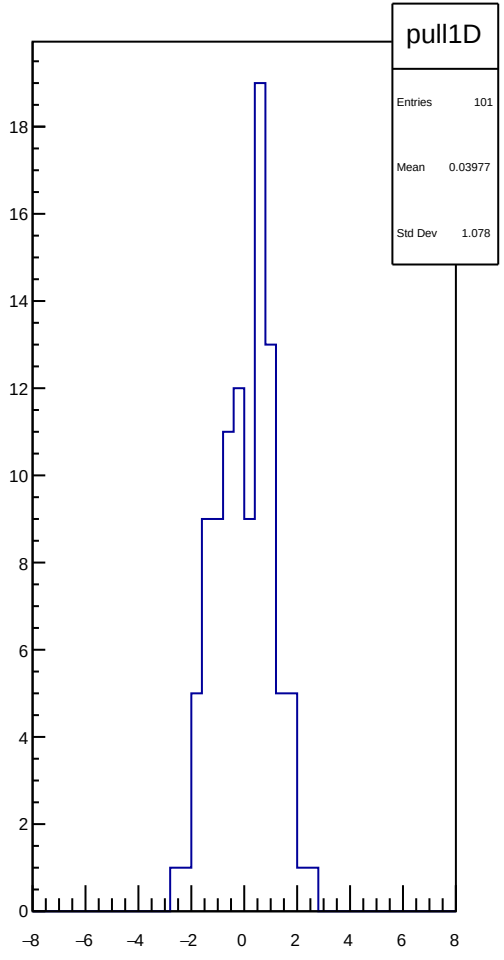

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 82.03 / 100
p0 0.01209 ± 0.06035
pull
Entries 101
Mean −711.1
Std Dev 0
pull1D
Entries 101
Mean −0.002908
Std Dev 0.9012

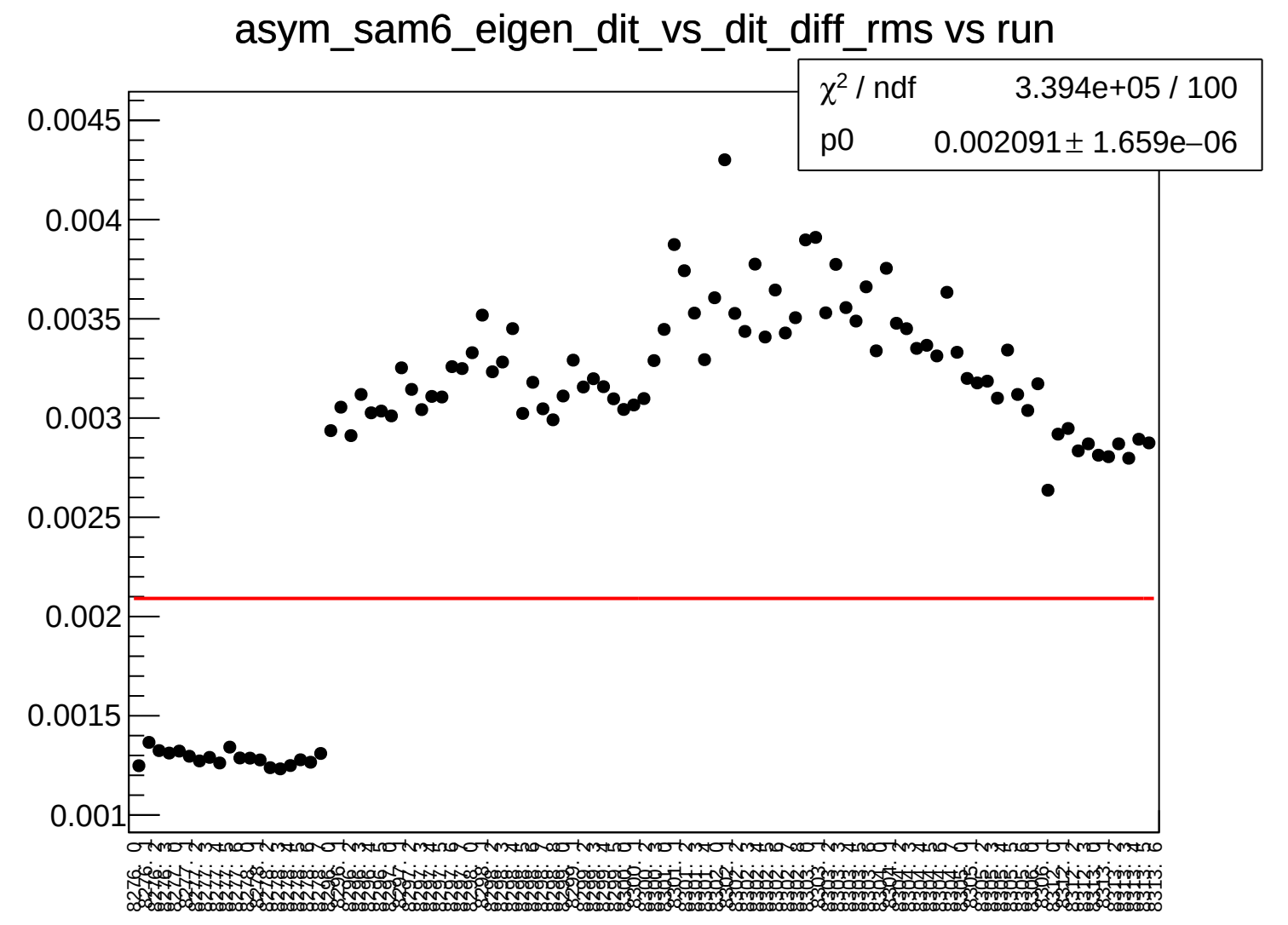

asym_sam6_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.159e+04 / 100
p0 58.91 ± 0.04267
100
90
80
70
60
50

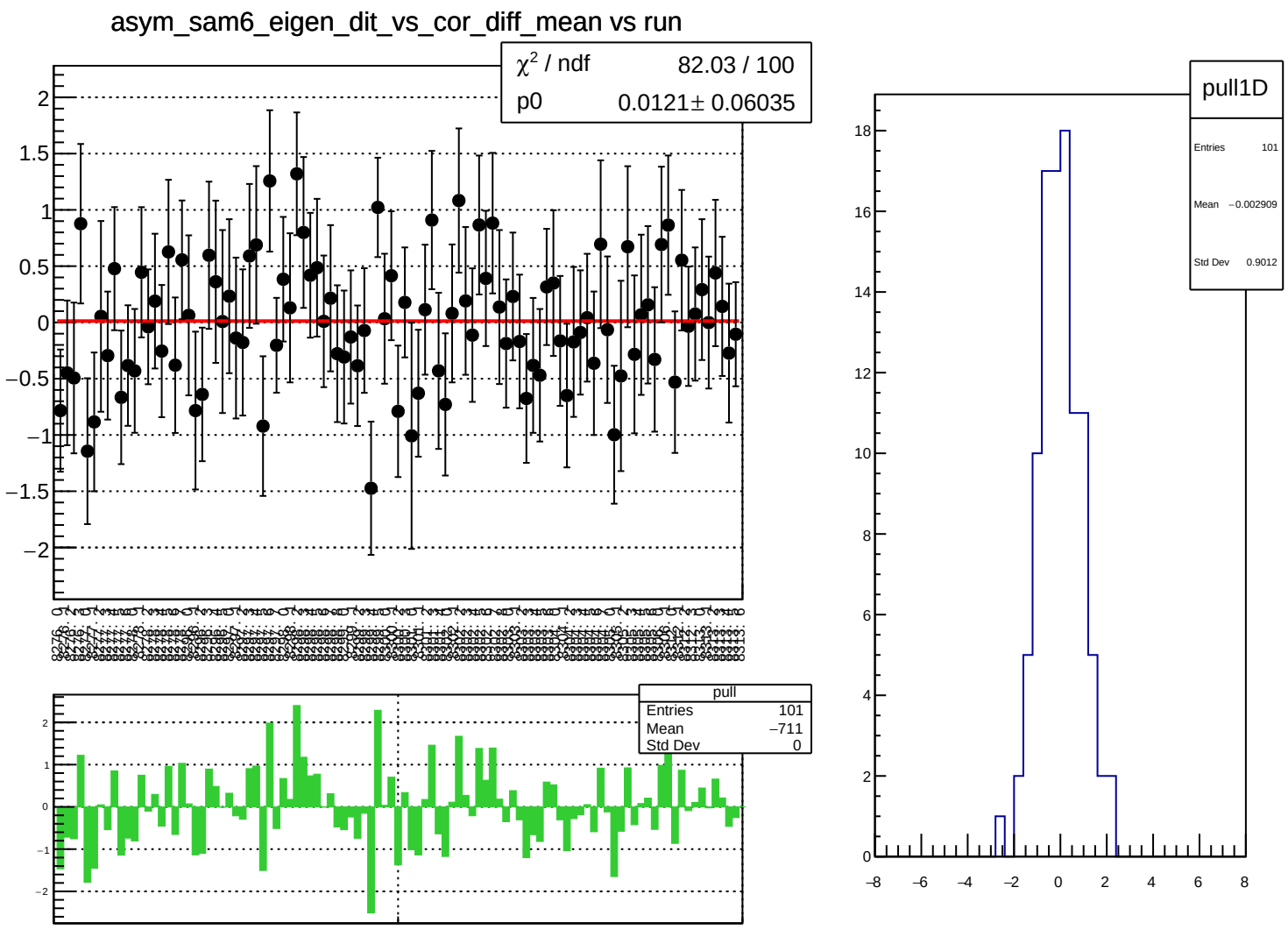

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.03 / 100
p0 0.01209 ± 0.06035
pull
Entries 101
Mean −711.1
Std Dev 0
pull1D
Entries 101
Mean −0.002908
Std Dev 0.9012

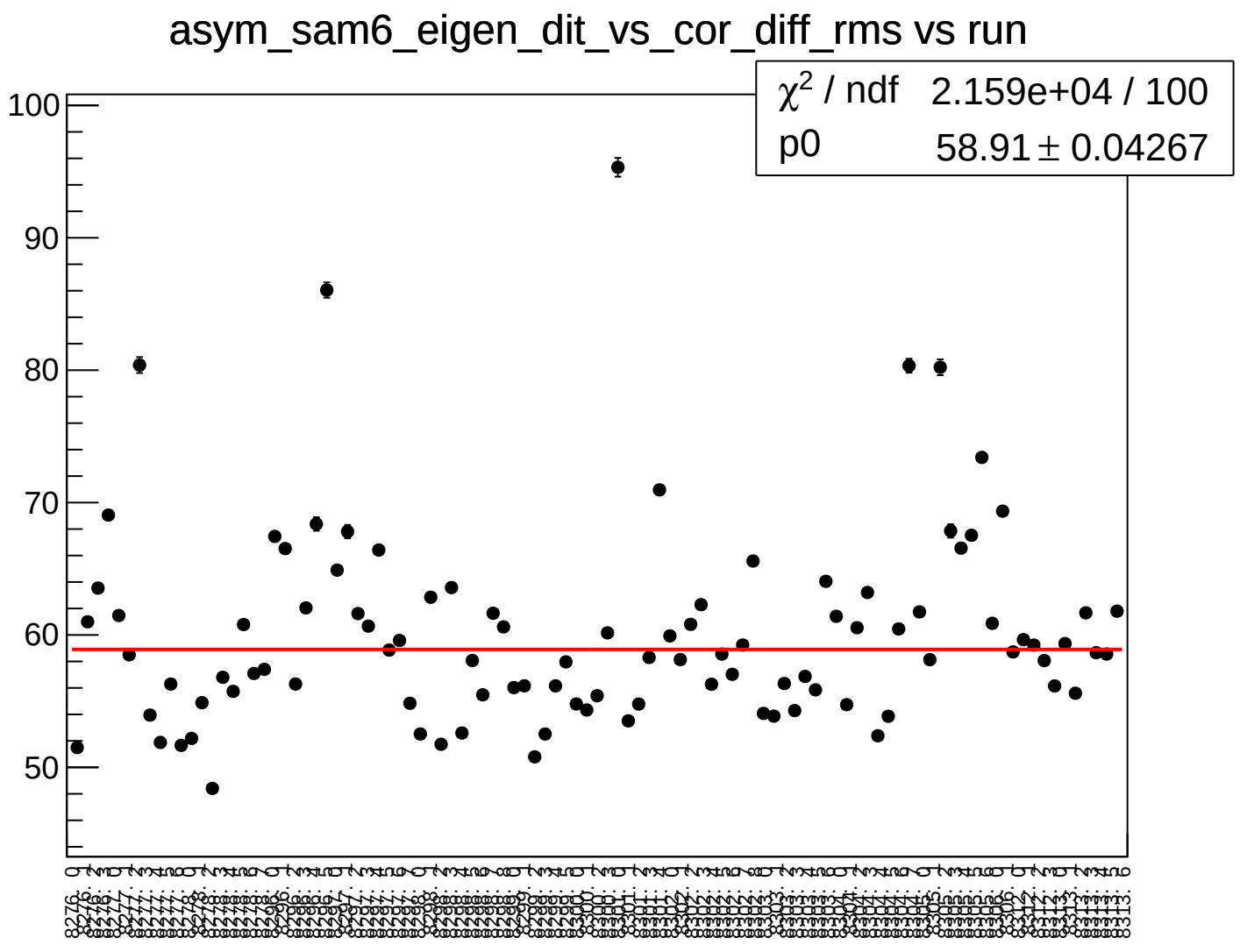

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.159e+04 / 100
p0 58.91 ± 0.04267
100
90
80
70
60
50

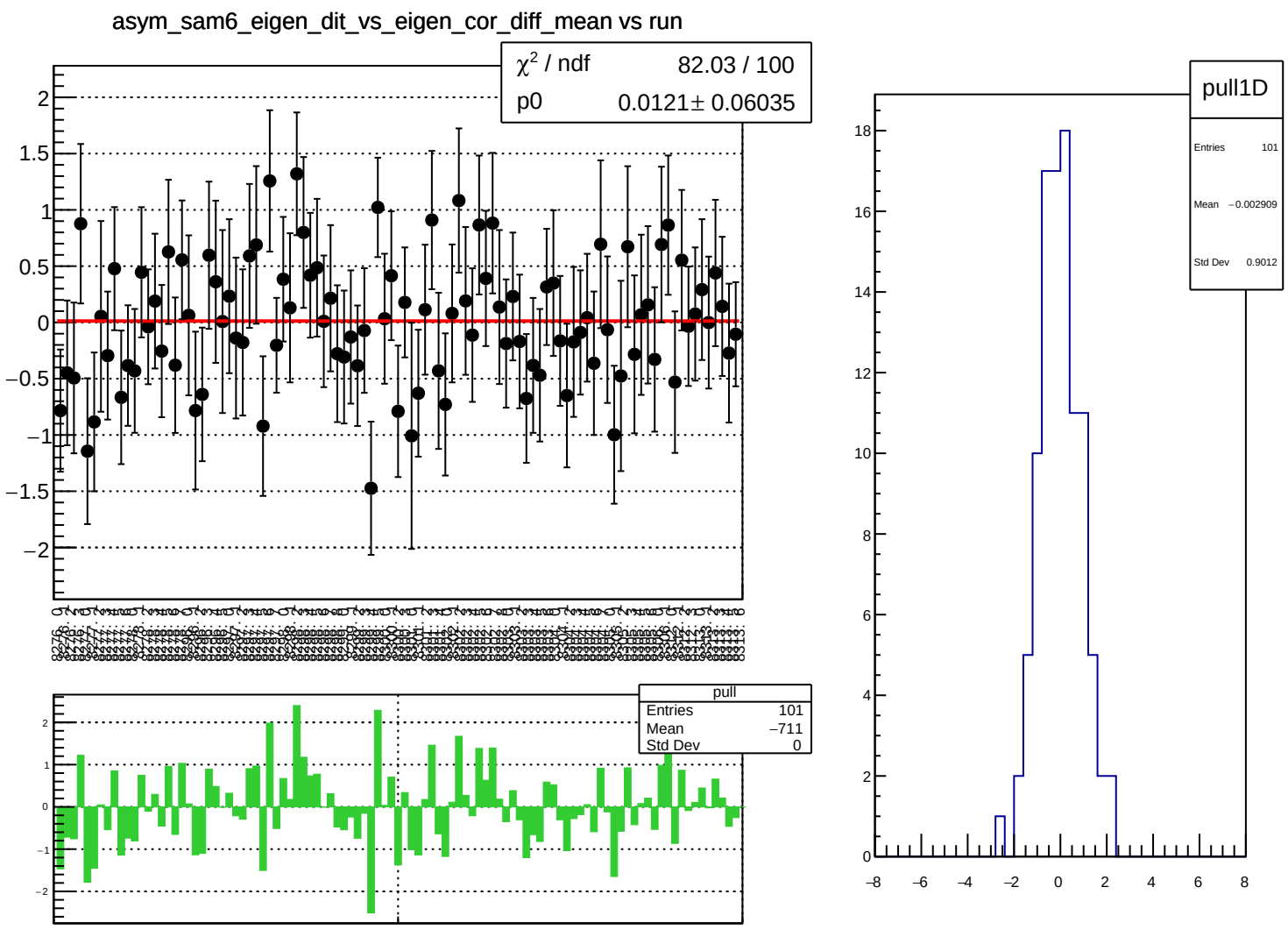

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 117.4 / 100
p0 7.672e−07 ± 2.347e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 101
Mean 312.4
Std Dev 0
2
1
0
−1
−2

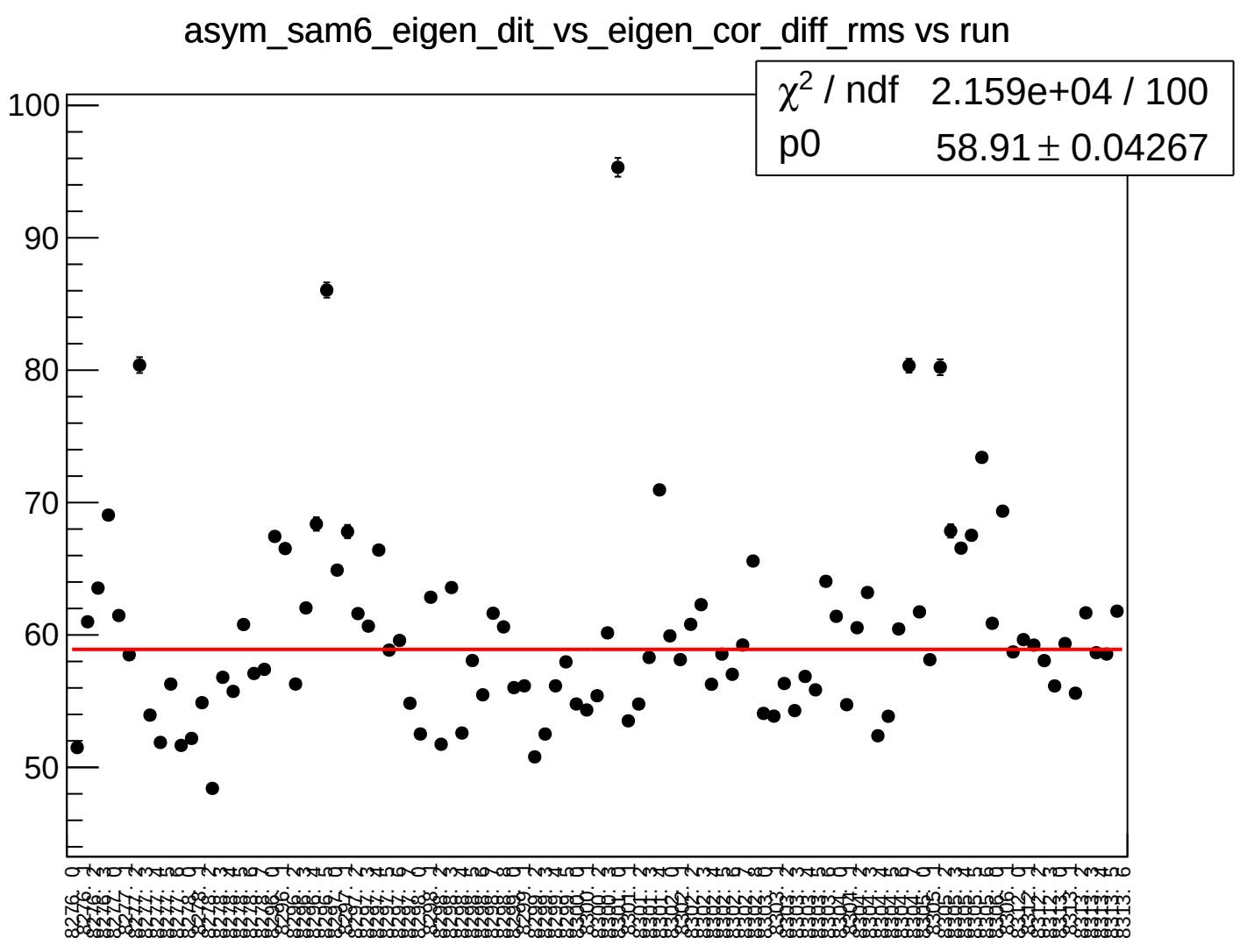

pull1D
Entries 101
Mean 0.03977
Std Dev 1.078
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

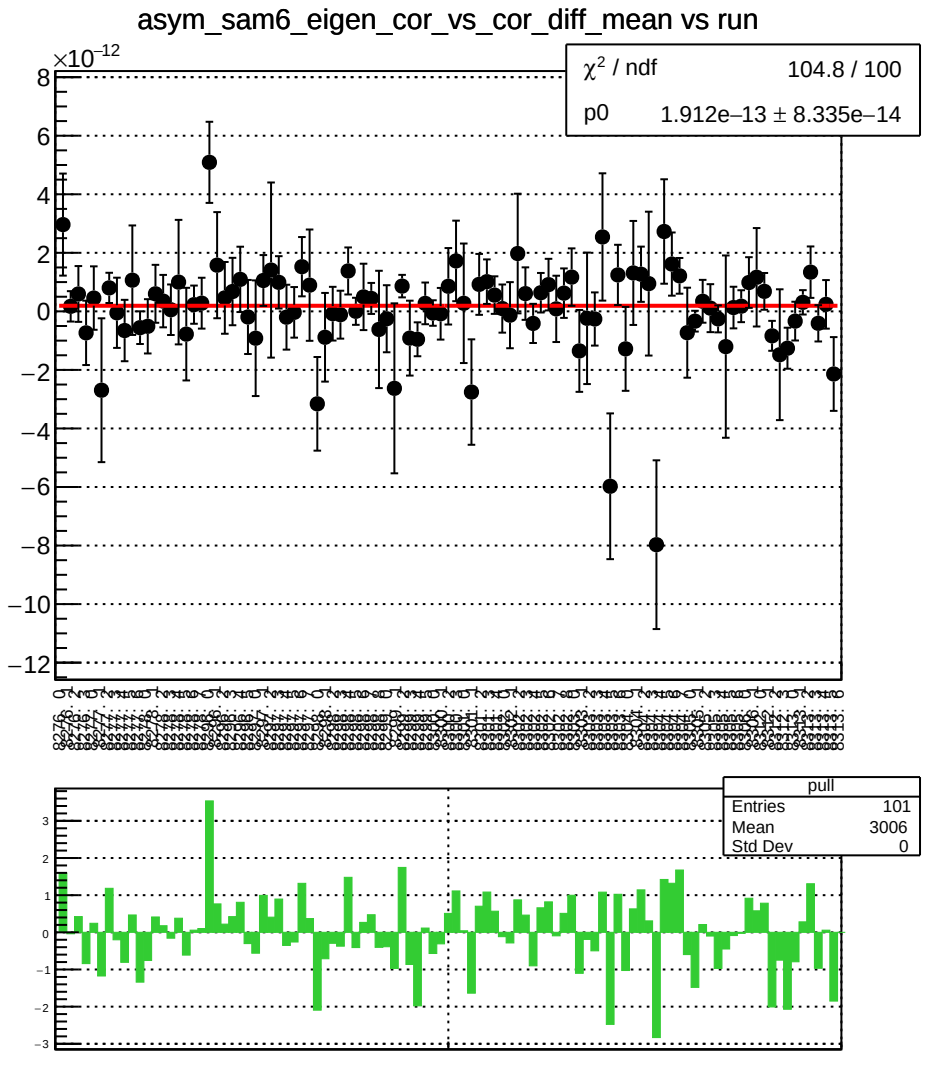

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.394e+05 / 100
p0 0.002091 ± 1.659e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

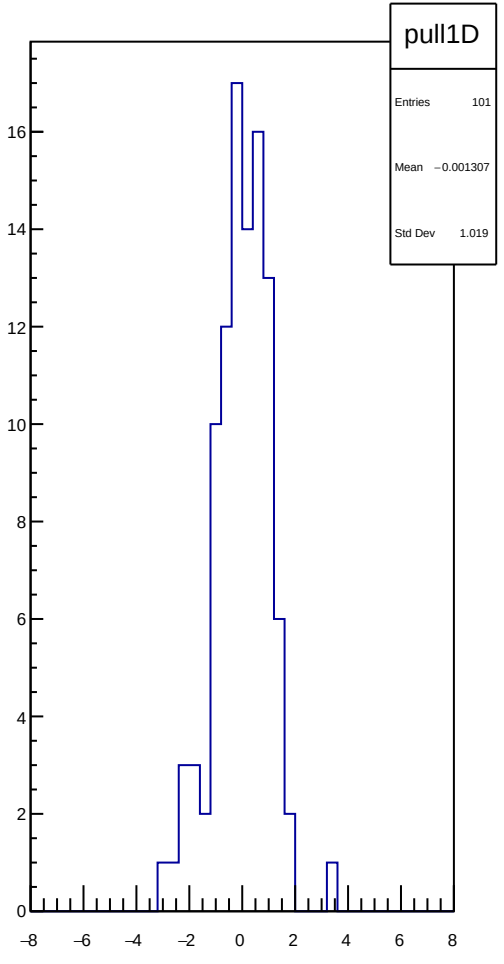

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.03 / 100
p0 0.0121± 0.06035
pull
Entries 101
Mean −711
Std Dev 0
pull1D
Entries 101
Mean −0.002909
Std Dev 0.9012

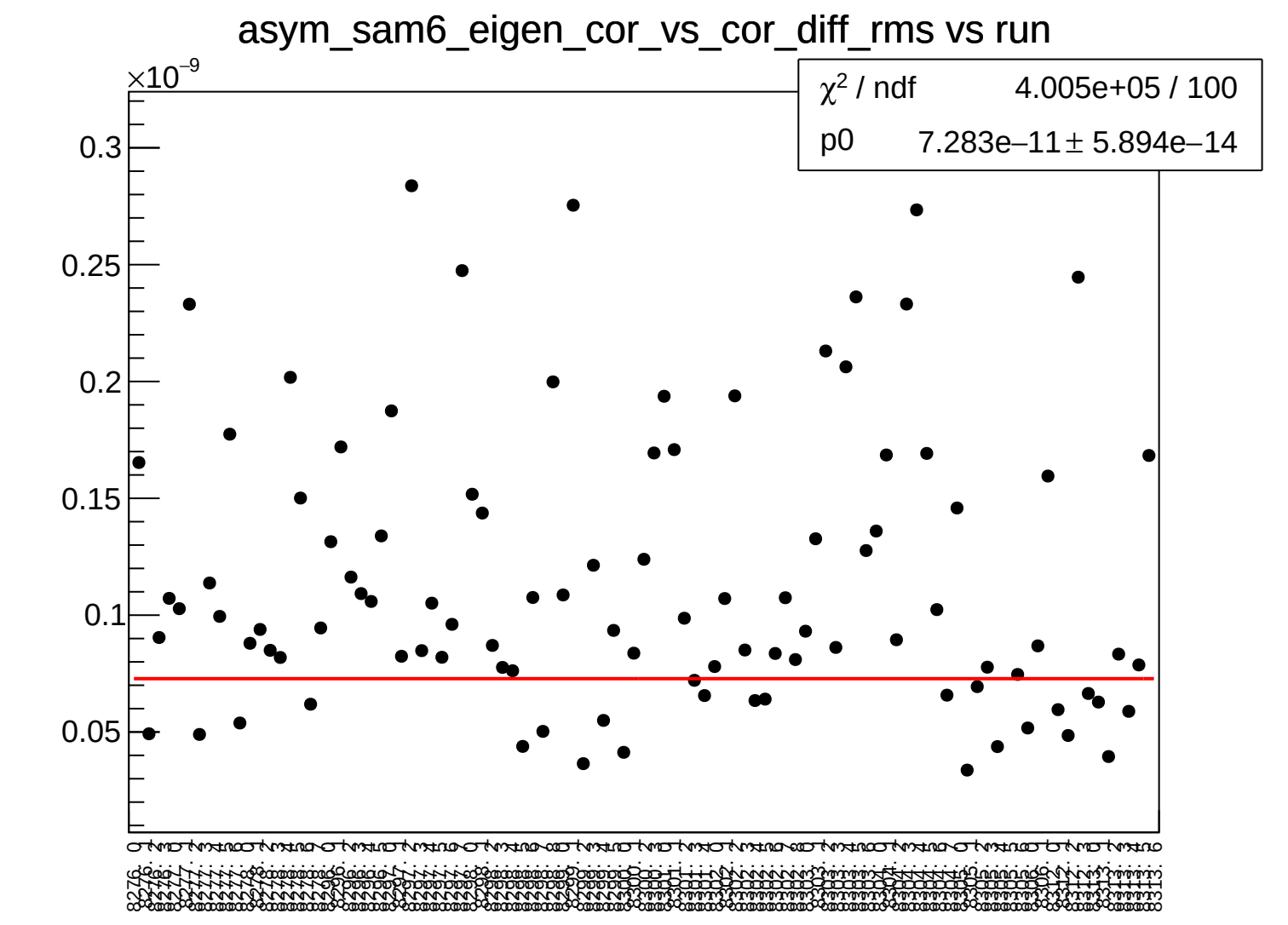

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.159e+04 / 100
p0 58.91 ± 0.04267
100
90
80
70
60
50

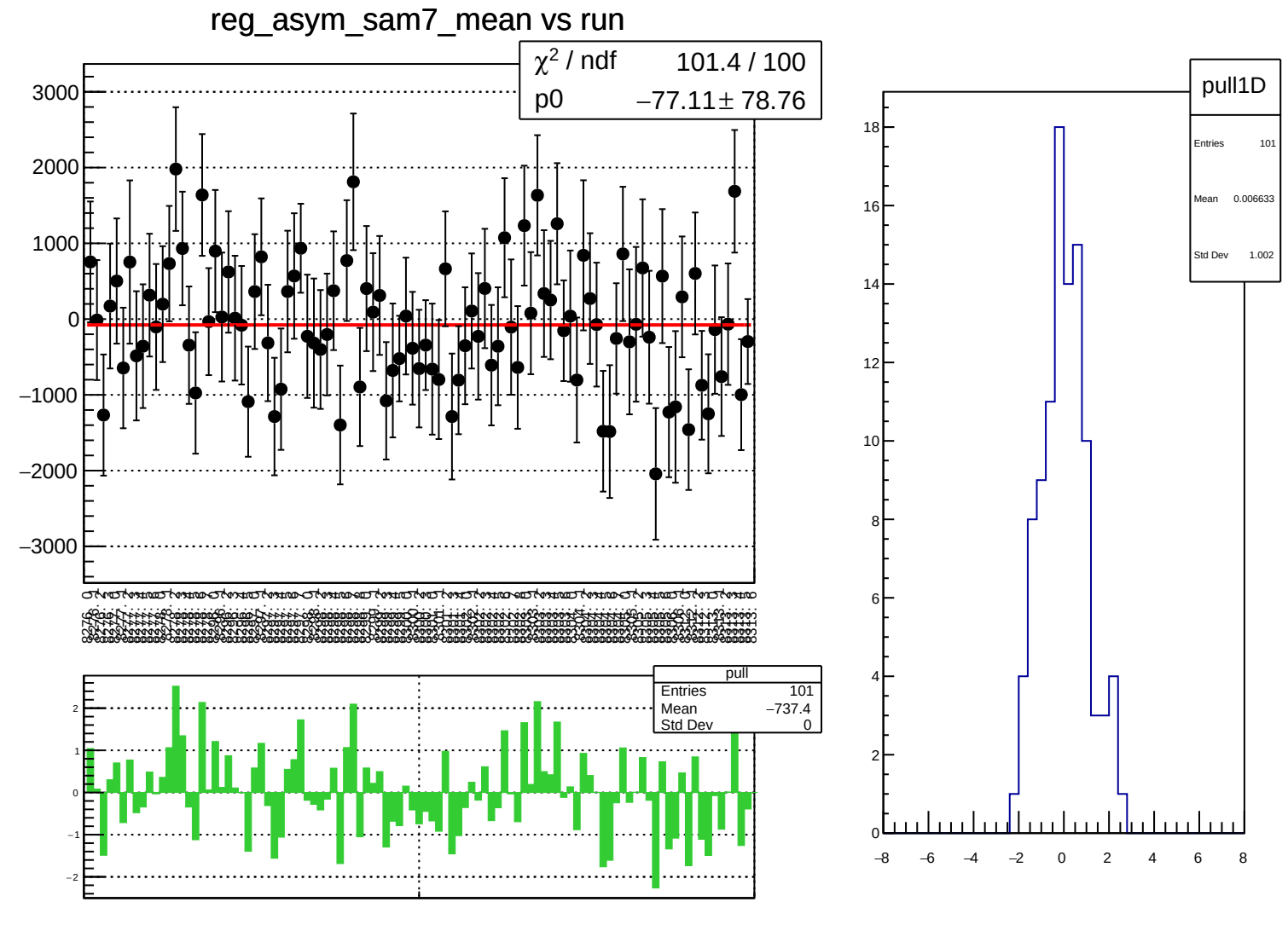

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.03 / 100
p0 0.0121± 0.06035
pull
Entries 101
Mean −711
Std Dev 0
pull1D
Entries 101
Mean −0.002909
Std Dev 0.9012

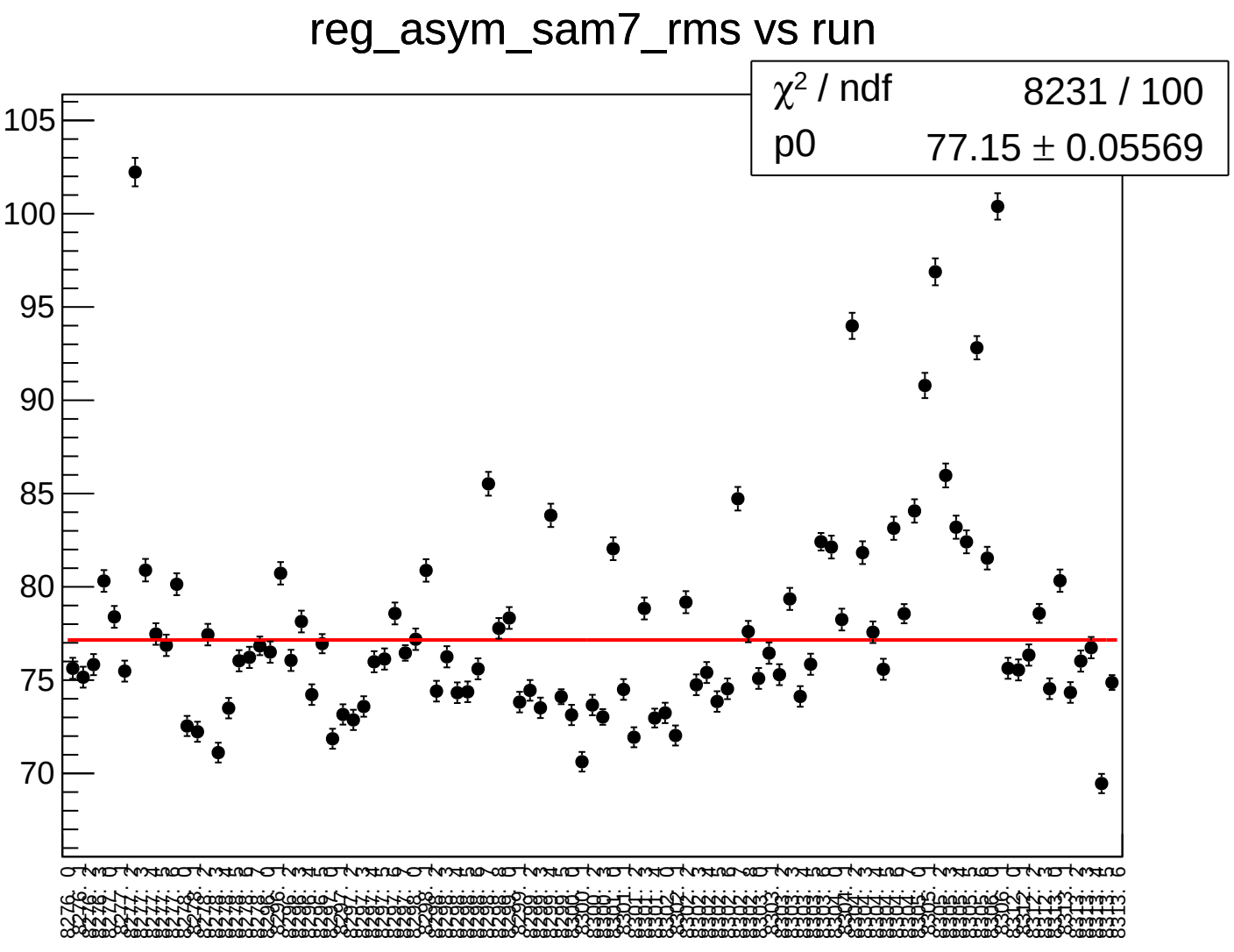

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.159e+04 / 100
p0 58.91 ± 0.04267
100
90
80
70
60
50

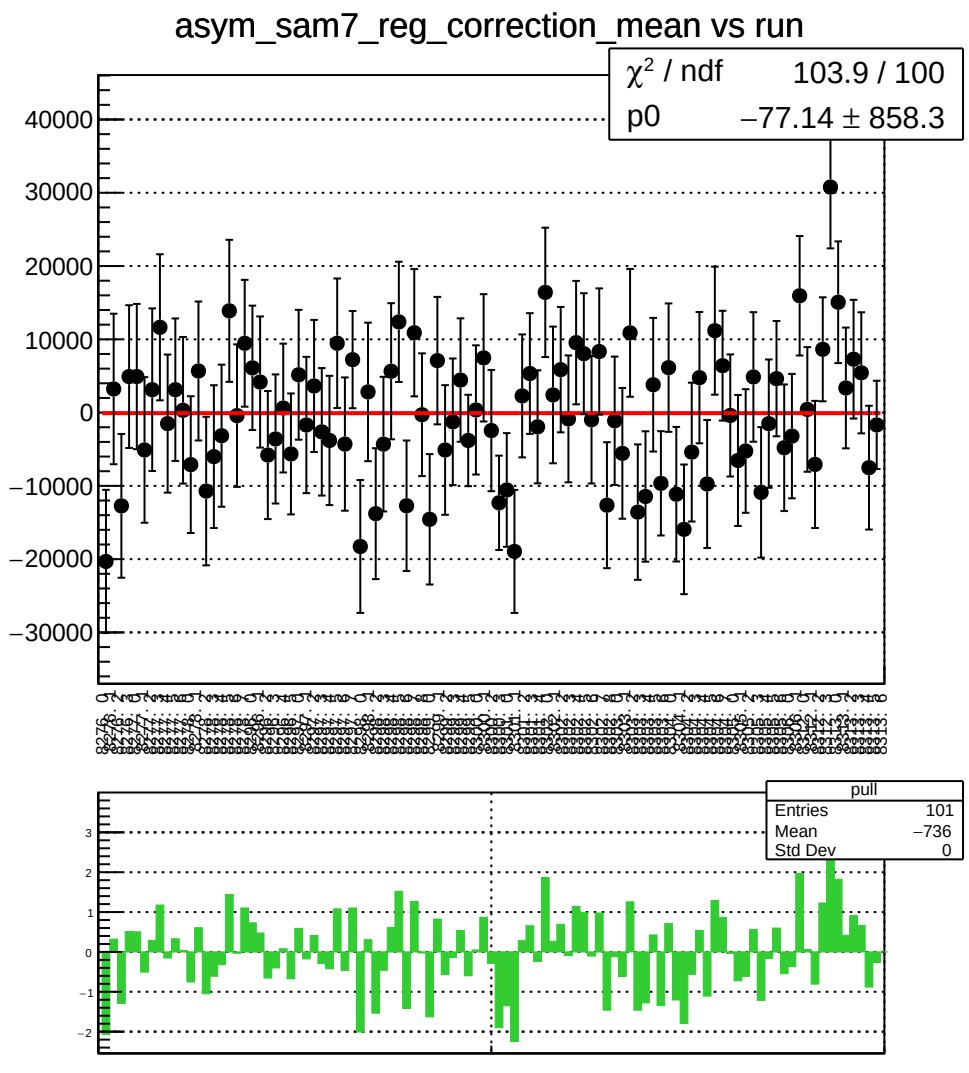

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 104.8 / 100
p0 1.912e−13 ± 8.335e−14
pull
Entries 101
Mean 3006
Std Dev 0

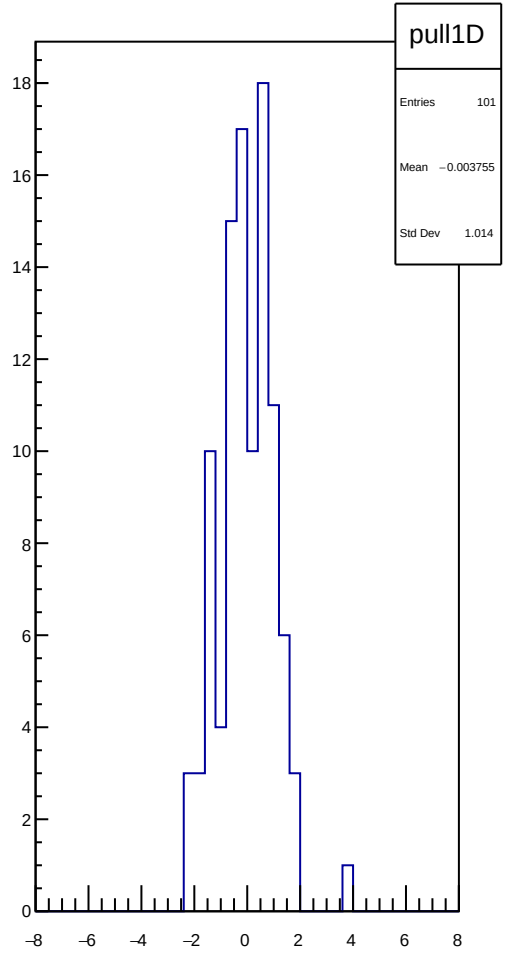

pull1D
Entries 101
Mean −0.001307
Std Dev 1.019

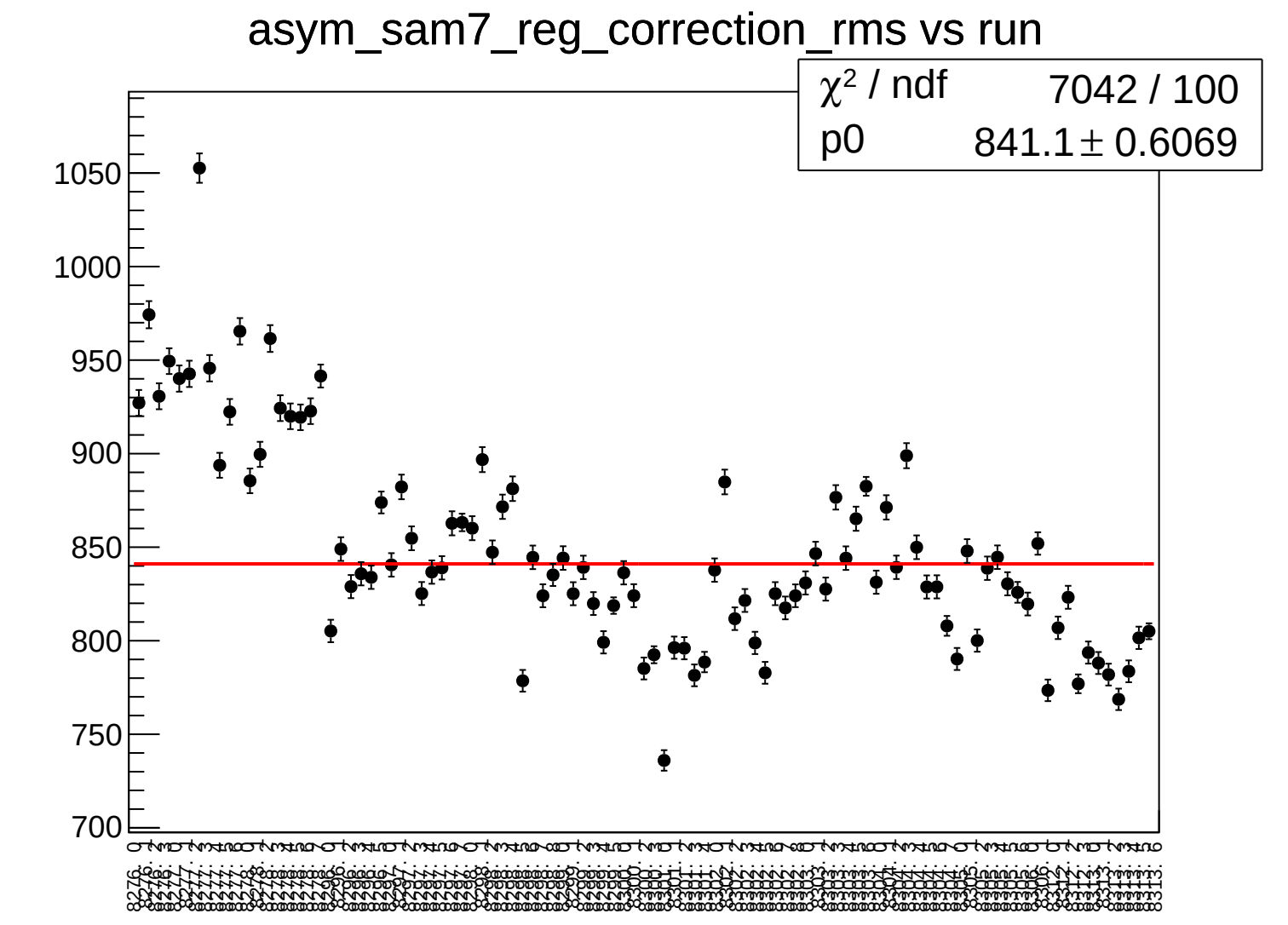

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.3
0.25
0.2
0.15
0.1
0.05
χ² / ndf 4.005e+05 / 100
p0 7.283e−11 ± 5.894e−14

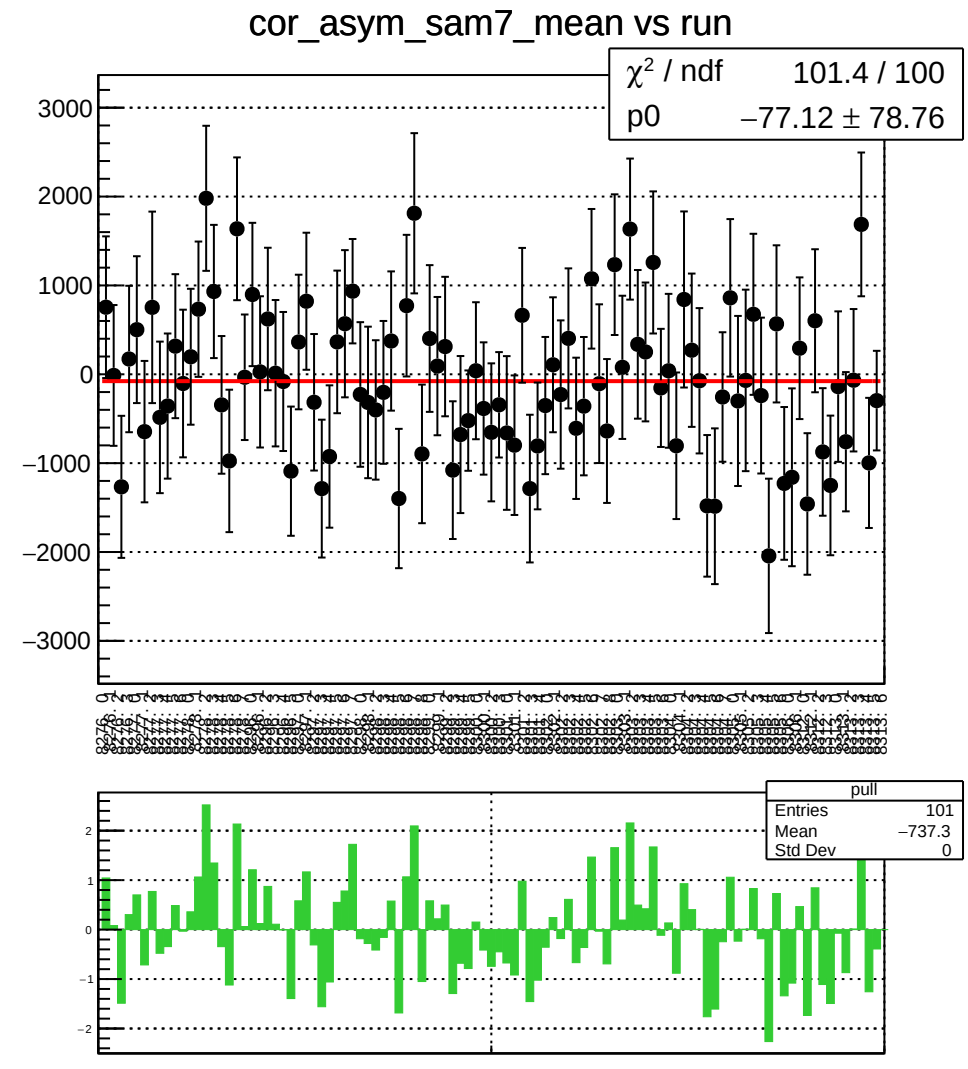

reg_asym_sam7_mean vs run
χ² / ndf 101.4 / 100
p0 −77.11± 78.76
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 101
Mean −737.4
Std Dev 0
pull1D
Entries 101
Mean 0.006633
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

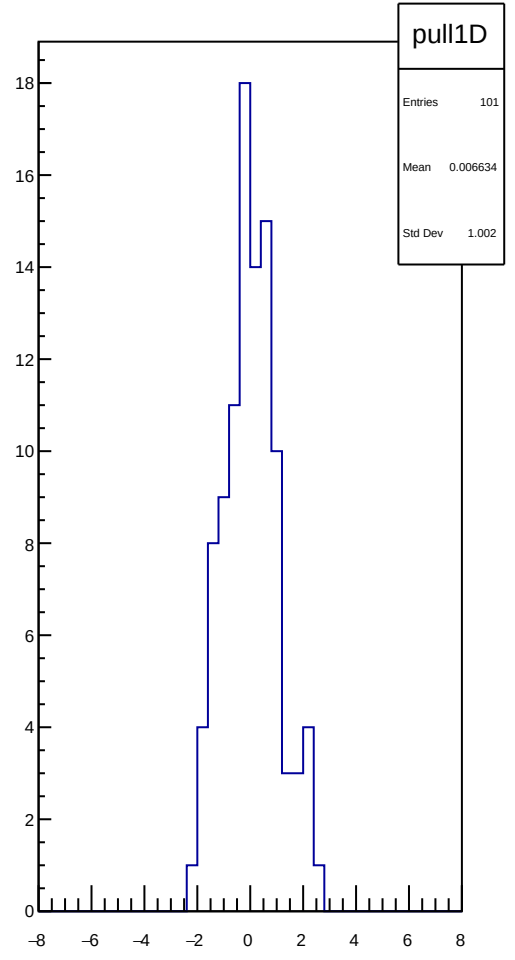

reg_asym_sam7_rms vs run
χ² / ndf 8231 / 100
p0 77.15 ± 0.05569
105
100
95
90
85
80
75
70

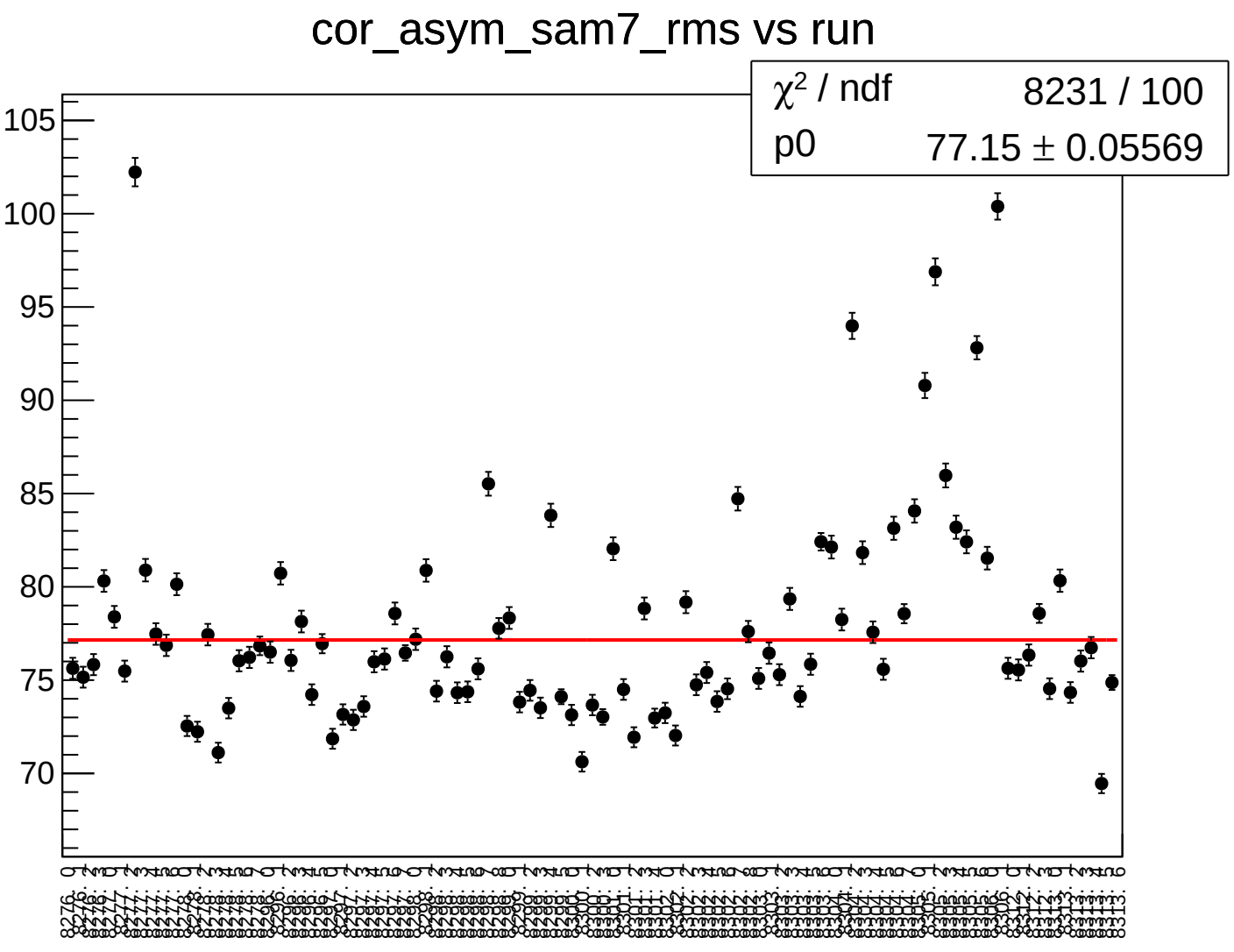

asym_sam7_reg_correction_mean vs run
χ² / ndf 103.9 / 100
p0 −77.14 ± 858.3
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 101
Mean −736
Std Dev 0
3
2
1
0
−1
−2

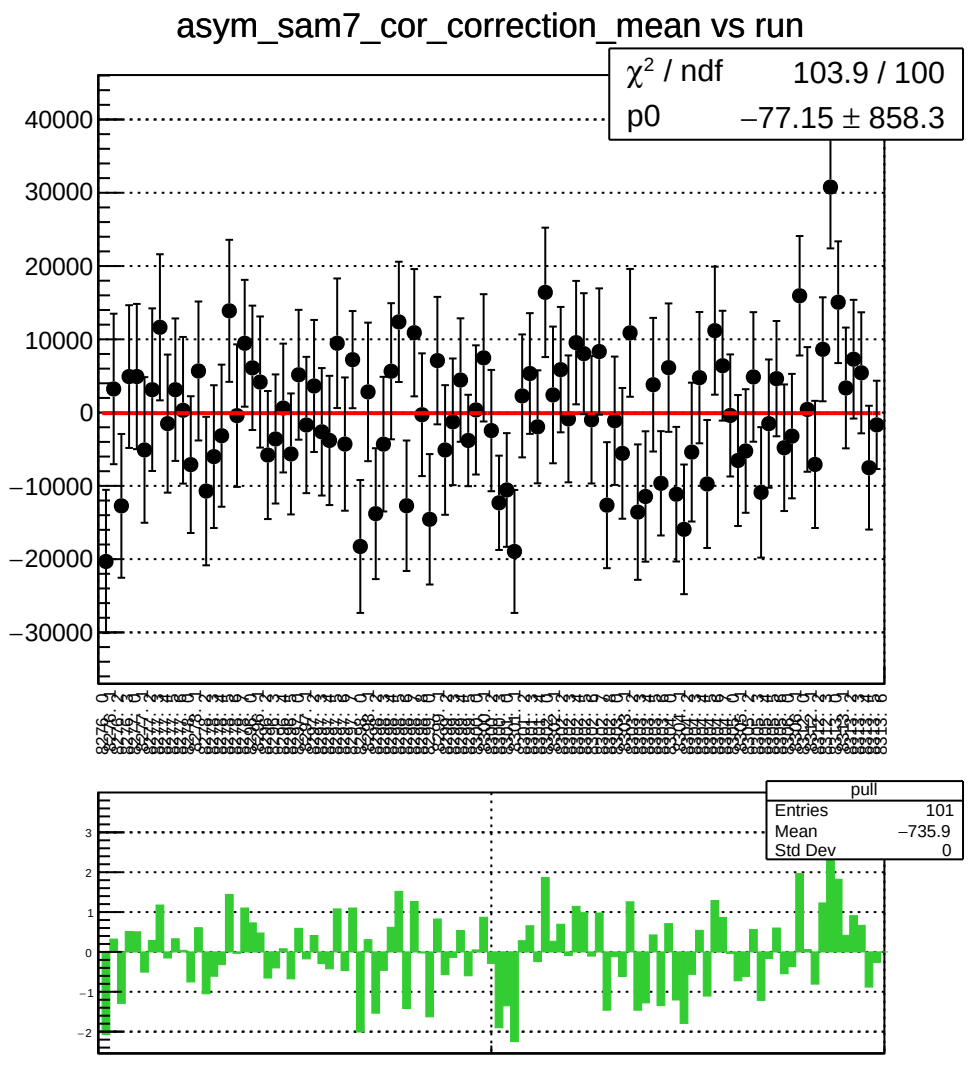

pull1D
Entries 101
Mean −0.003755
Std Dev 1.014
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

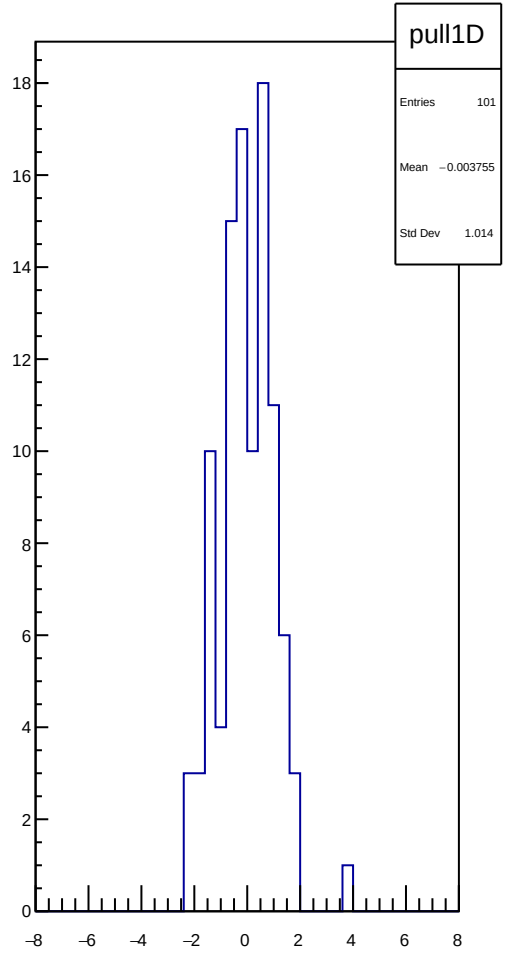

asym_sam7_reg_correction_rms vs run
χ² / ndf 7042 / 100
p0 841.1 ± 0.6069
1050
1000
950
900
850
800
750
700

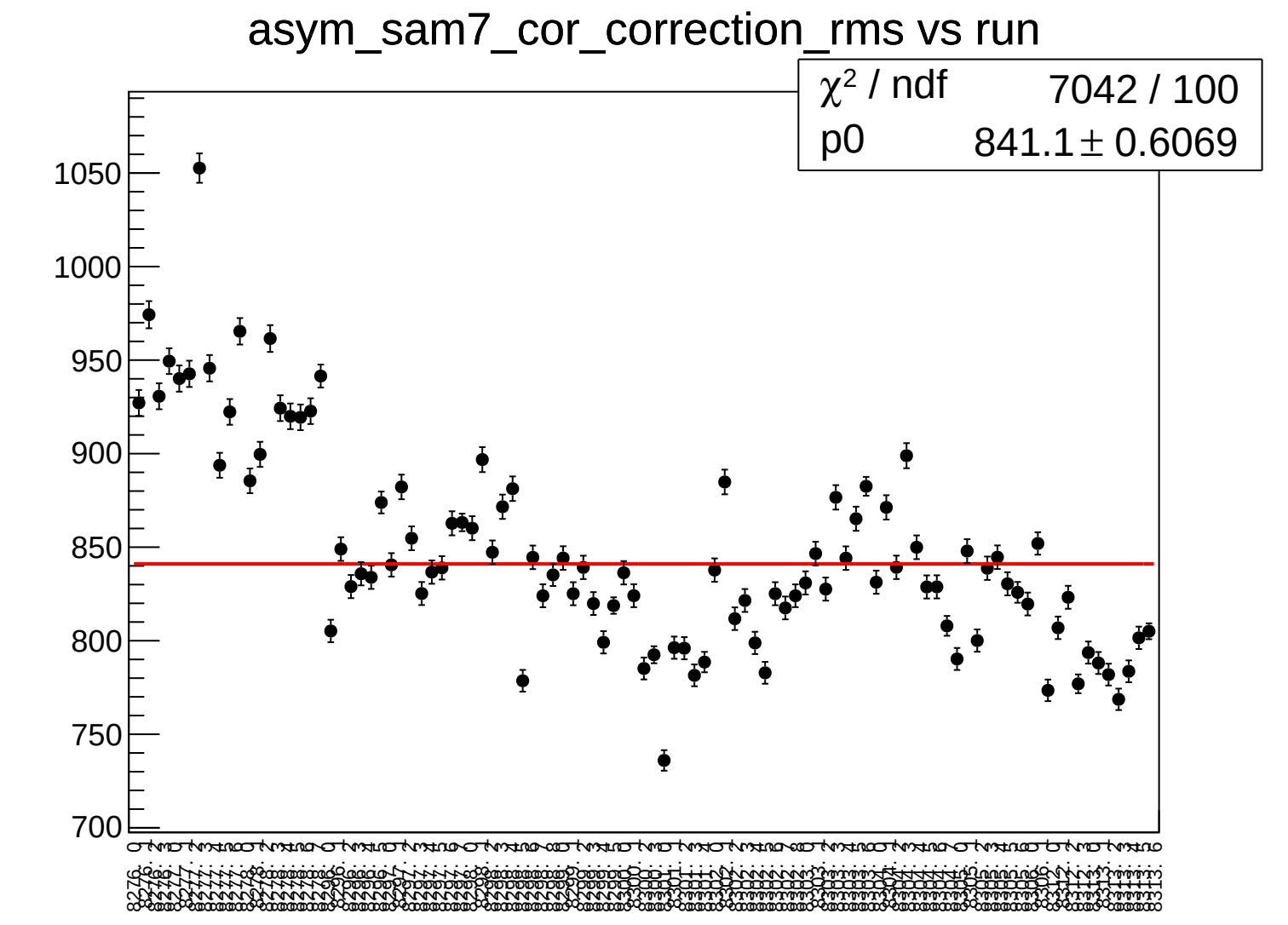

cor_asym_sam7_mean vs run
χ² / ndf 101.4 / 100
p0 −77.12 ± 78.76
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 101
Mean −737.3
Std Dev 0
2
1
0
−1
−2

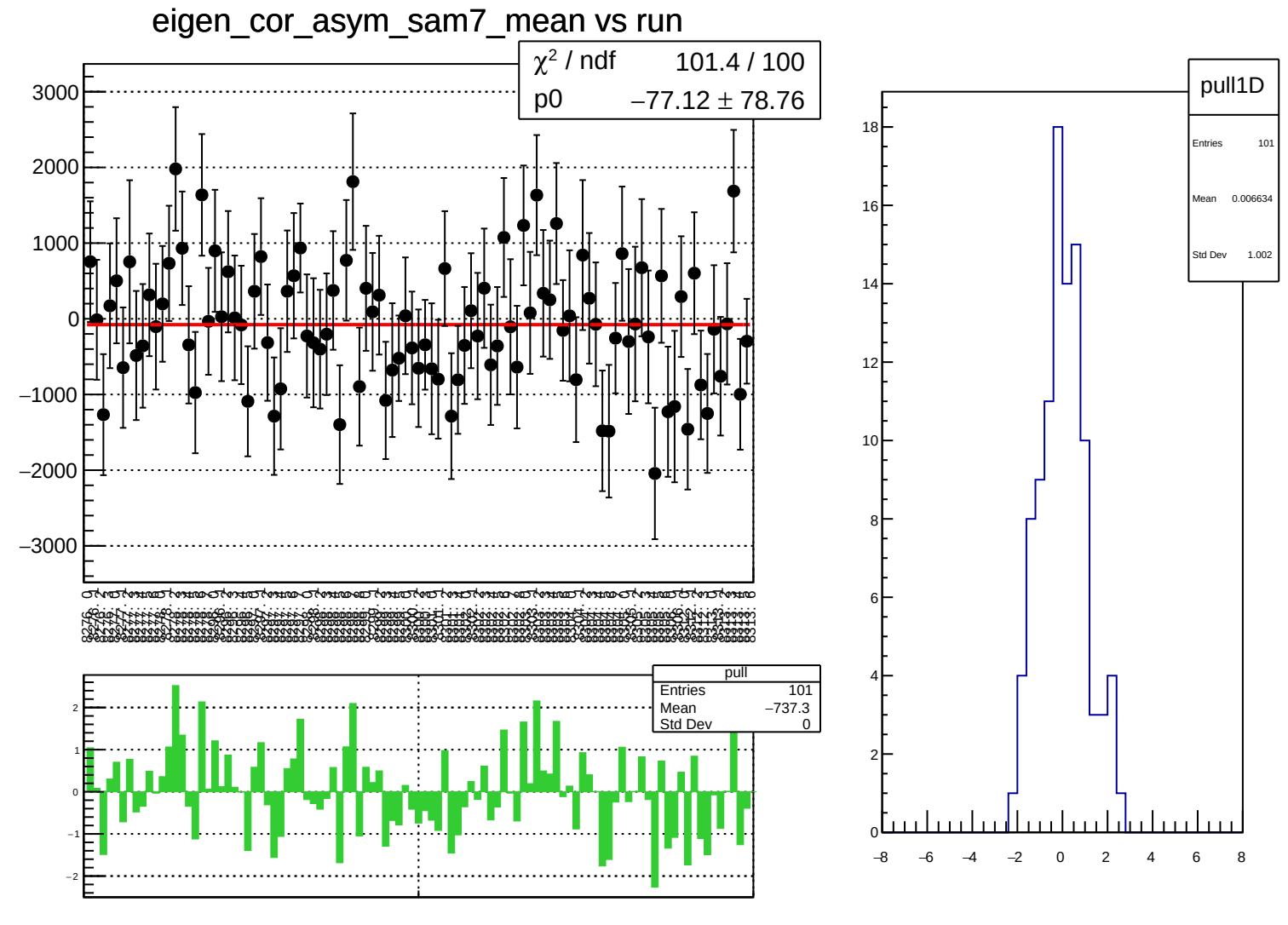

pull1D
Entries 101
Mean 0.006634
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

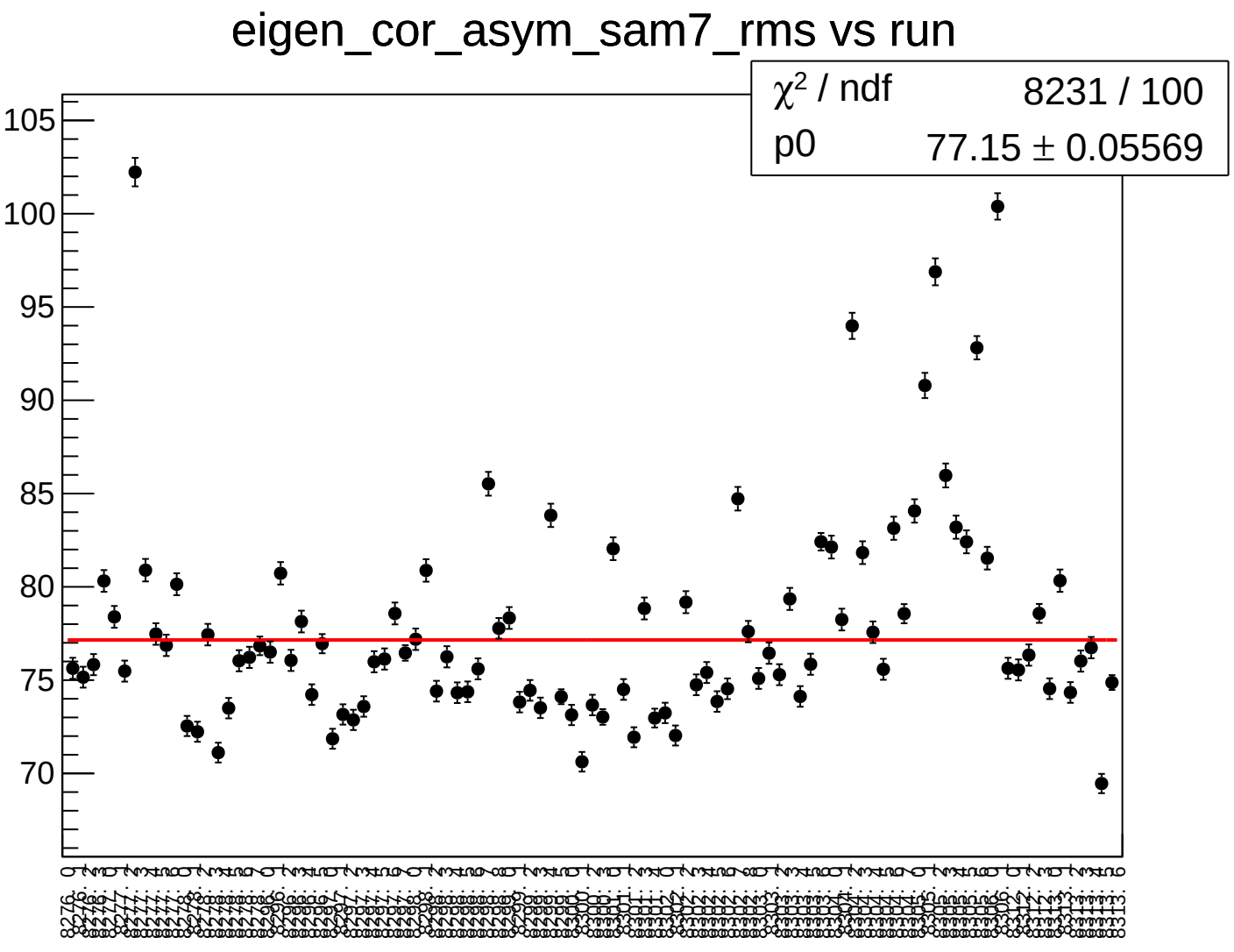

cor_asym_sam7_rms vs run
χ² / ndf 8231 / 100
p0 77.15 ± 0.05569
105
100
95
90
85
80
75
70

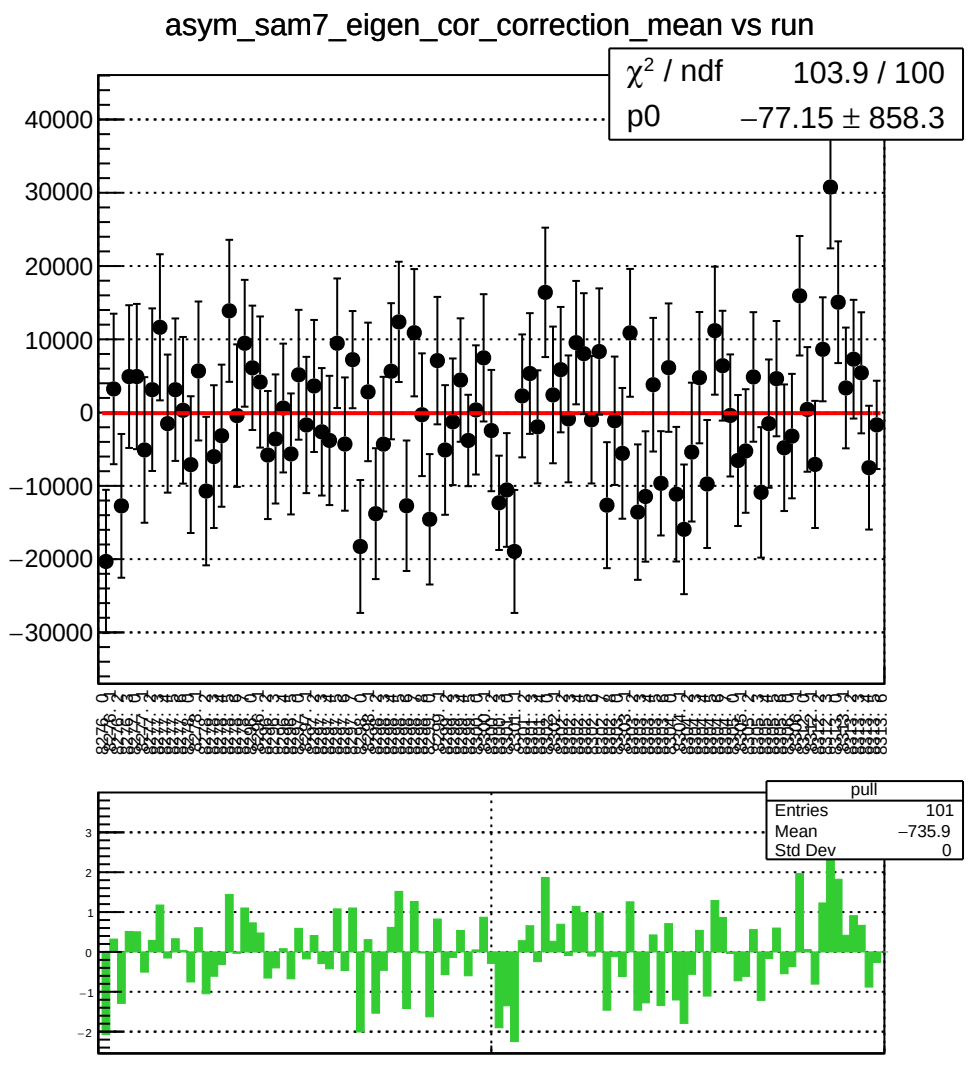

asym_sam7_cor_correction_mean vs run
χ² / ndf 103.9 / 100
p0 −77.15 ± 858.3
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 101
Mean −735.9
Std Dev 0
3
2
1
0
−1
−2

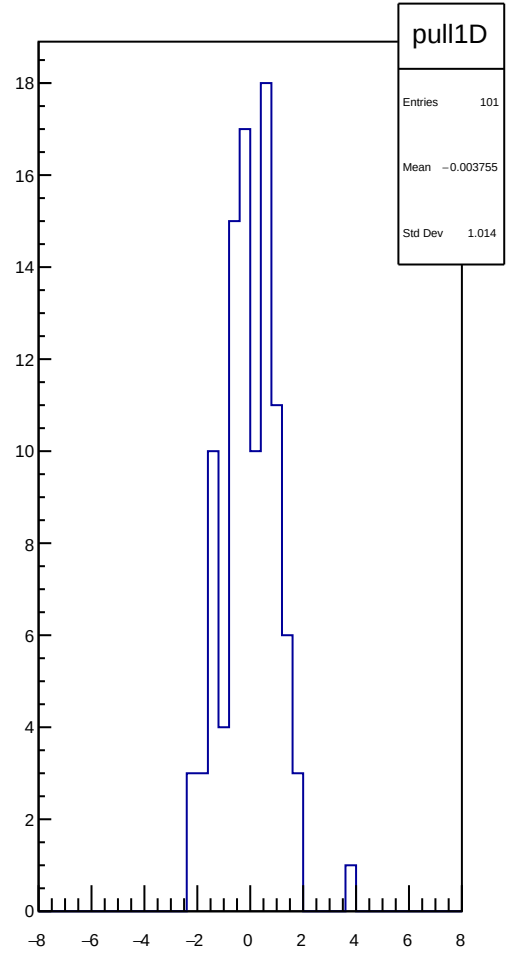

pull1D
Entries 101
Mean −0.003755
Std Dev 1.014
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

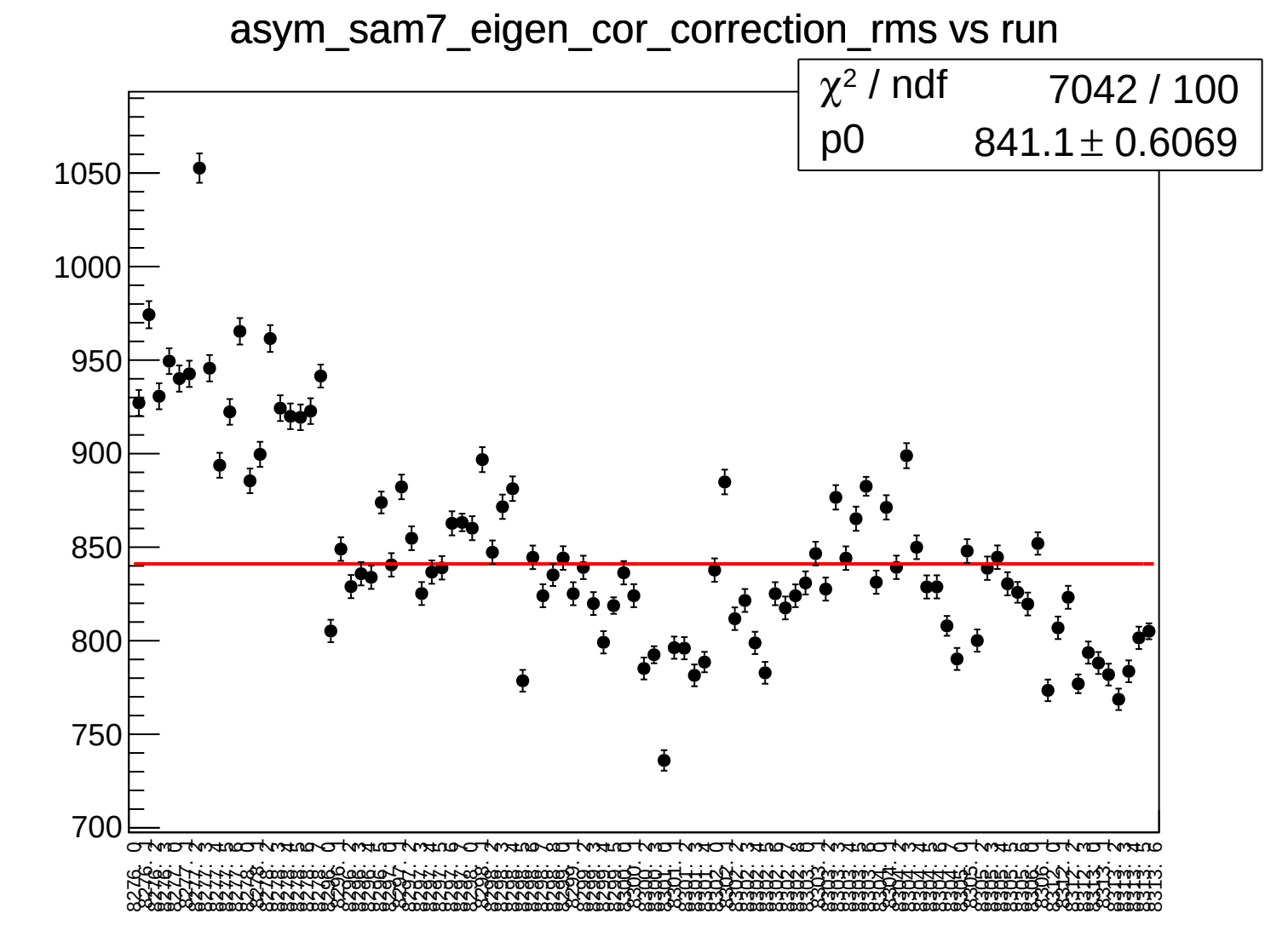

asym_sam7_cor_correction_rms vs run
χ² / ndf 7042 / 100
p0 841.1 ± 0.6069
1050
1000
950
900
850
800
750
700

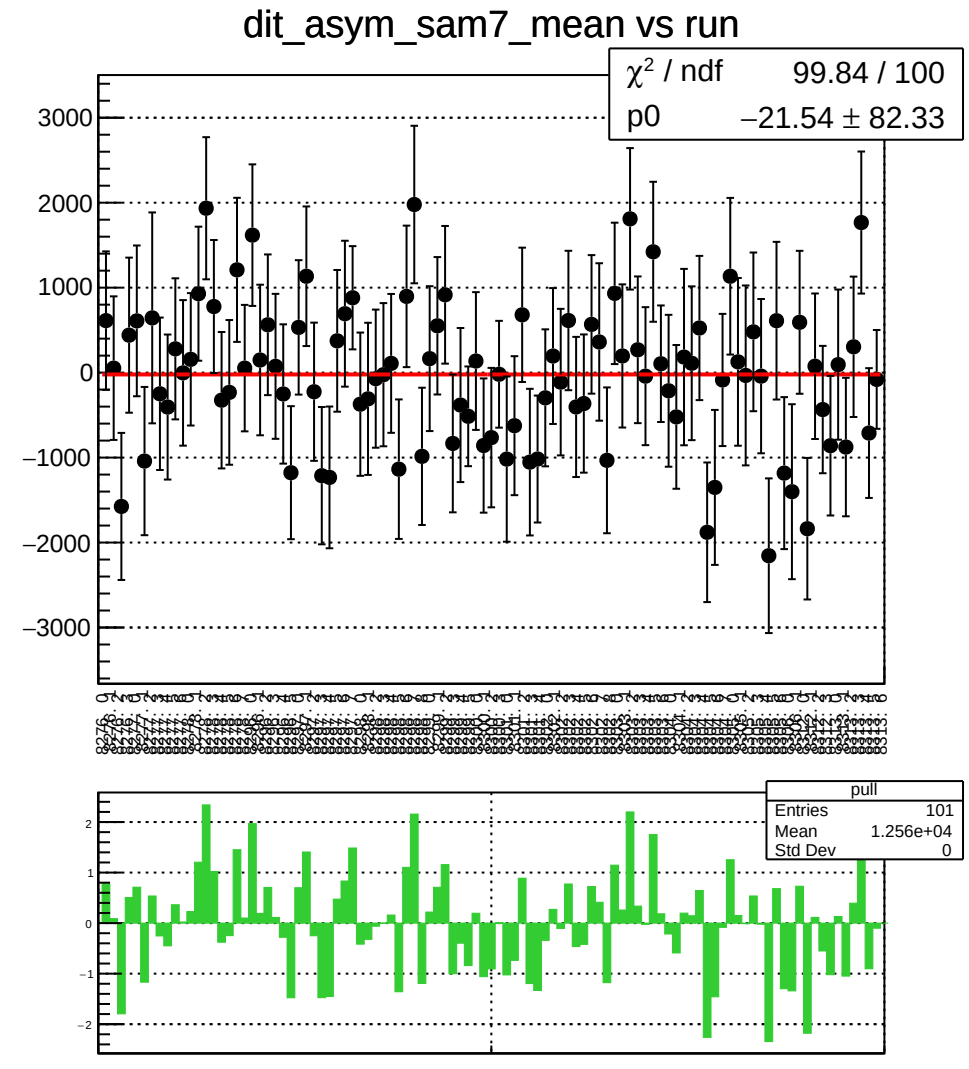

eigen_cor_asym_sam7_mean vs run
χ² / ndf 101.4 / 100
p0 −77.12 ± 78.76
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 101
Mean −737.3
Std Dev 0
pull1D
Entries 101
Mean 0.006634
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

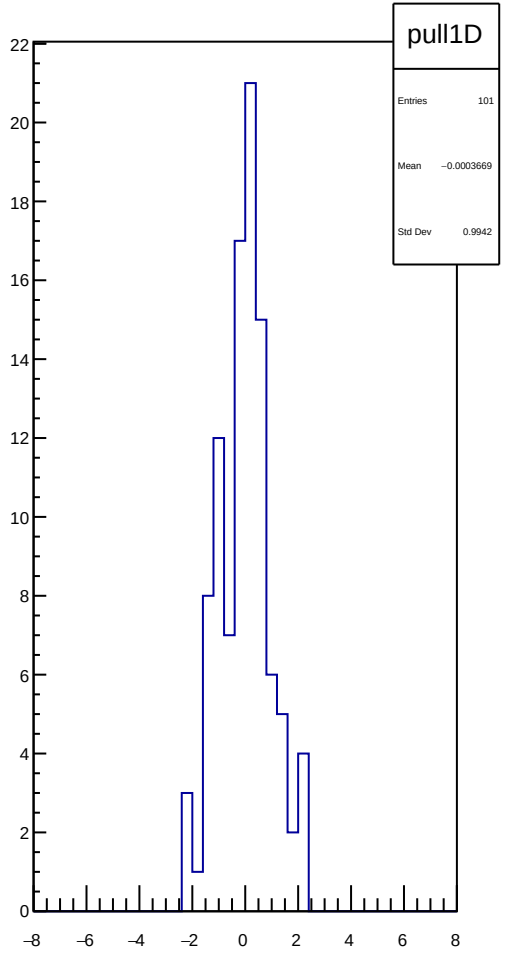

eigen_cor_asym_sam7_rms vs run
χ² / ndf 8231 / 100
p0 77.15 ± 0.05569
105
100
95
90
85
80
75
70

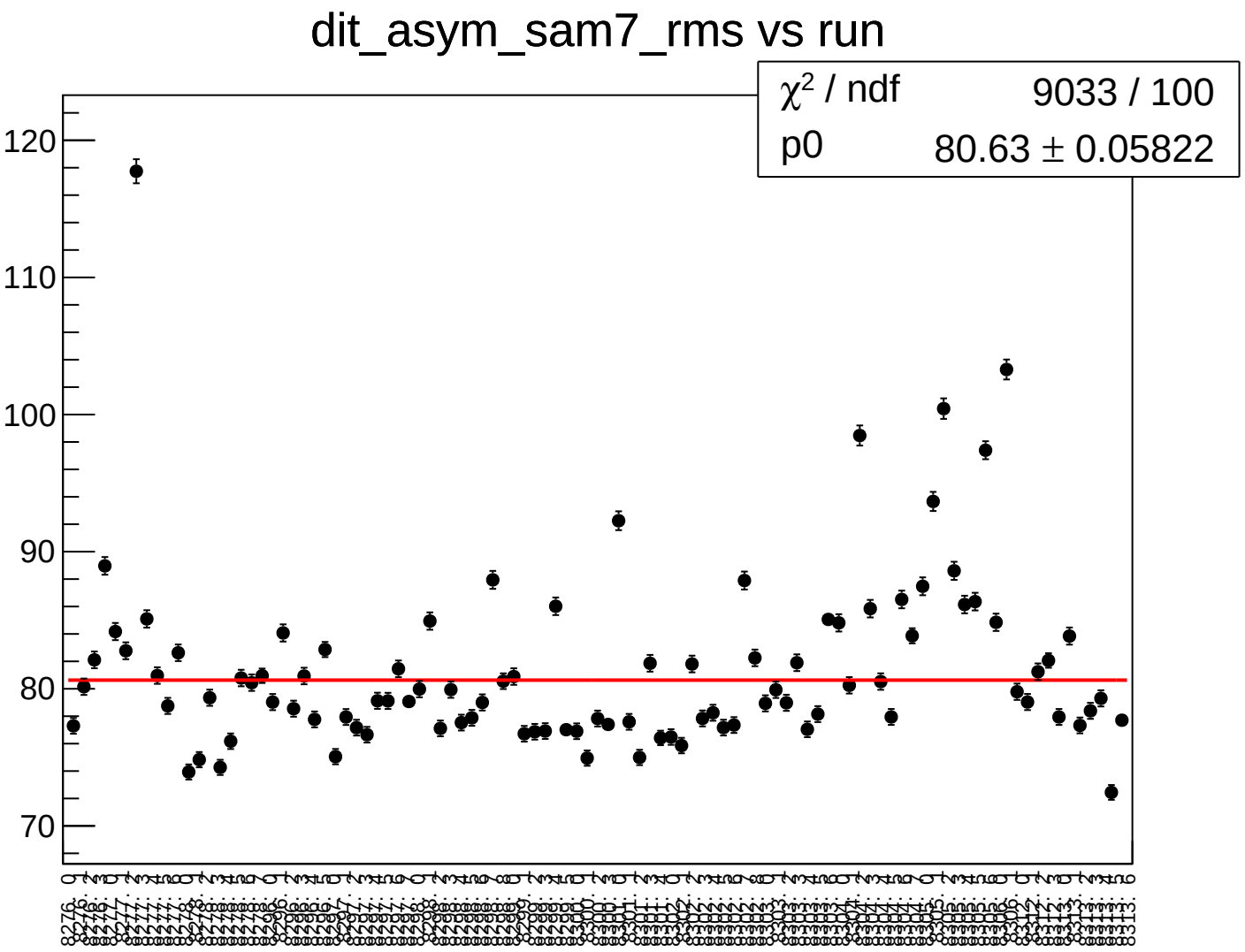

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 103.9 / 100
p0 −77.15 ± 858.3
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 101
Mean −735.9
Std Dev 0
3
2
1
0
−1
−2

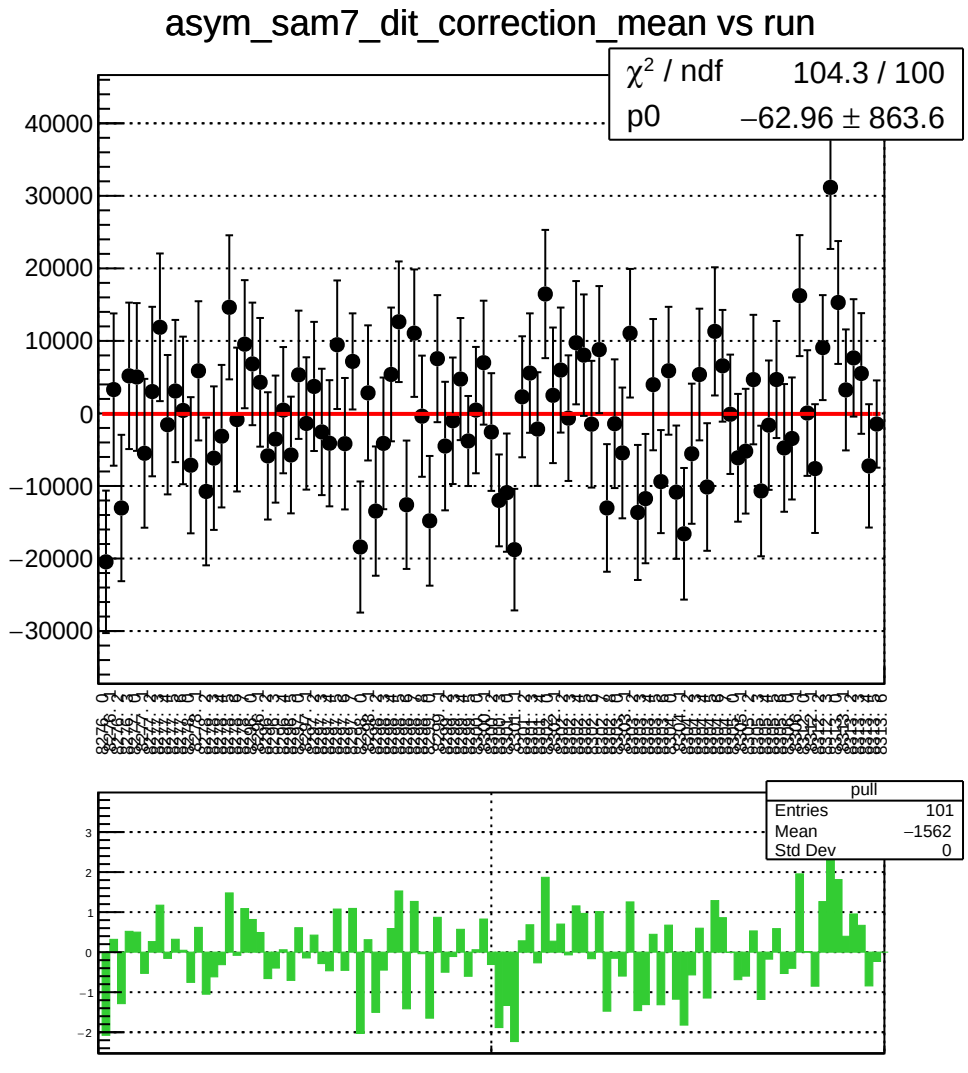

pull1D
Entries 101
Mean −0.003755
Std Dev 1.014
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

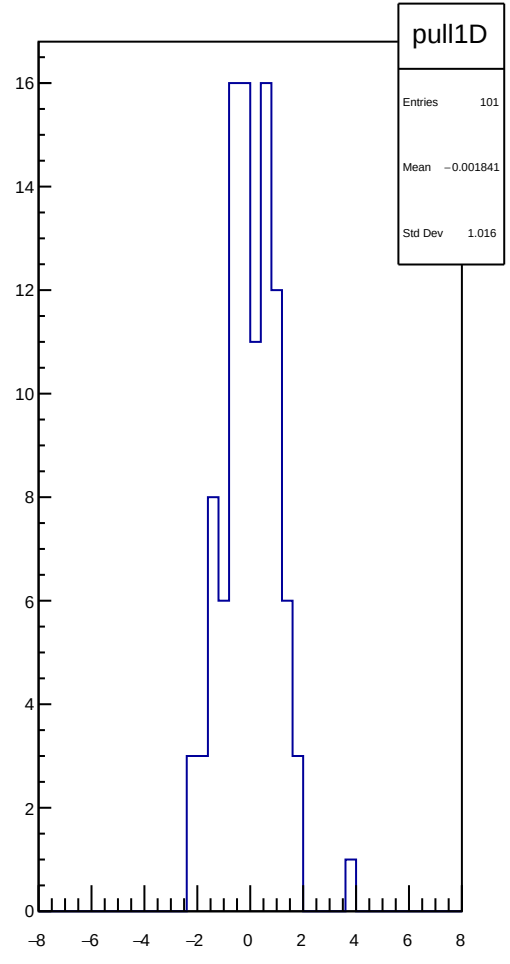

asym_sam7_eigen_cor_correction_rms vs run
χ² / ndf 7042 / 100
p0 841.1 ± 0.6069
1050
1000
950
900
850
800
750
700

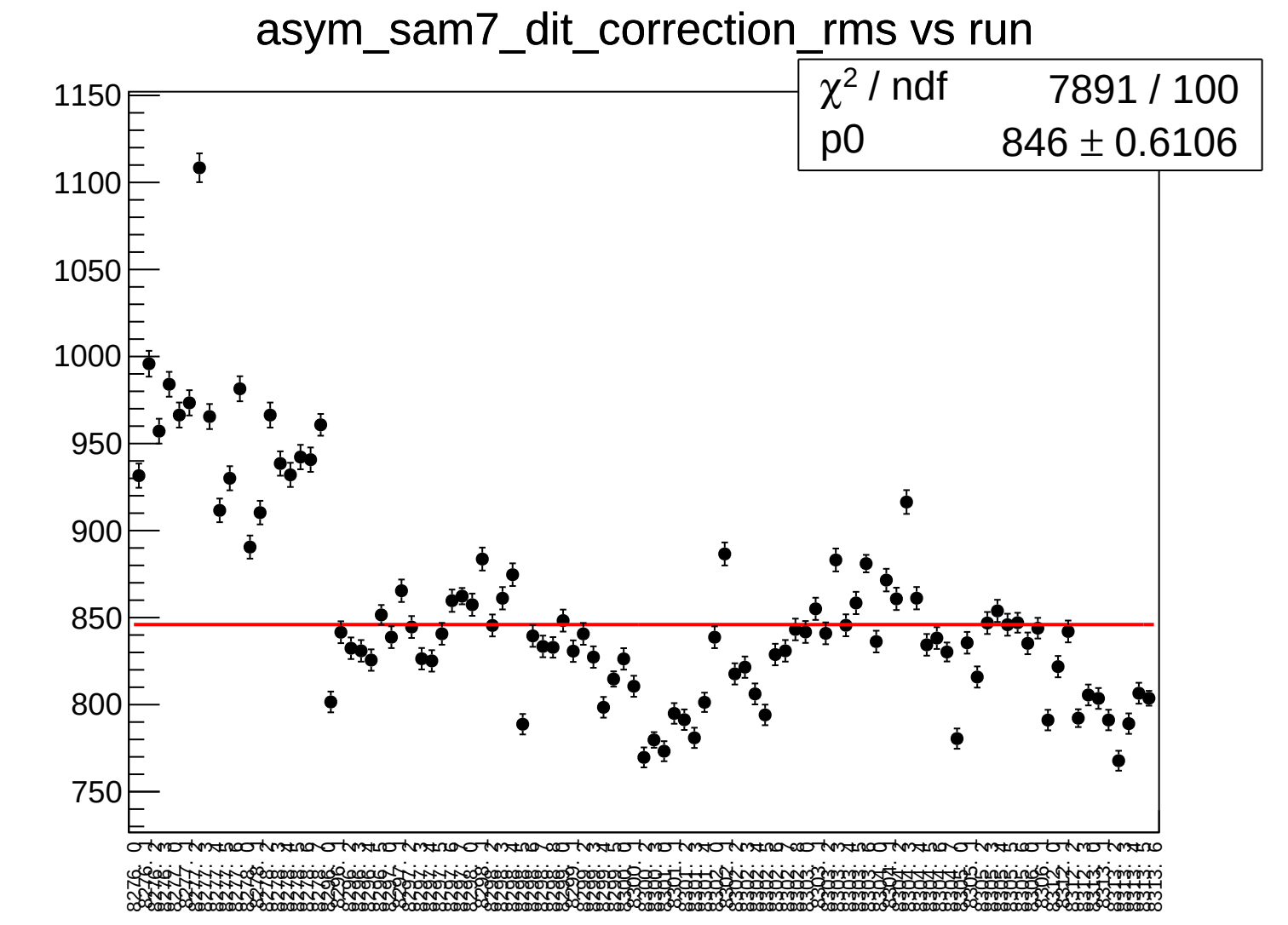

dit_asym_sam7_mean vs run
χ² / ndf 99.84 / 100
p0 −21.54 ± 82.33
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 101
Mean 1.256e+04
Std Dev 0
2
1
0
−1
−2

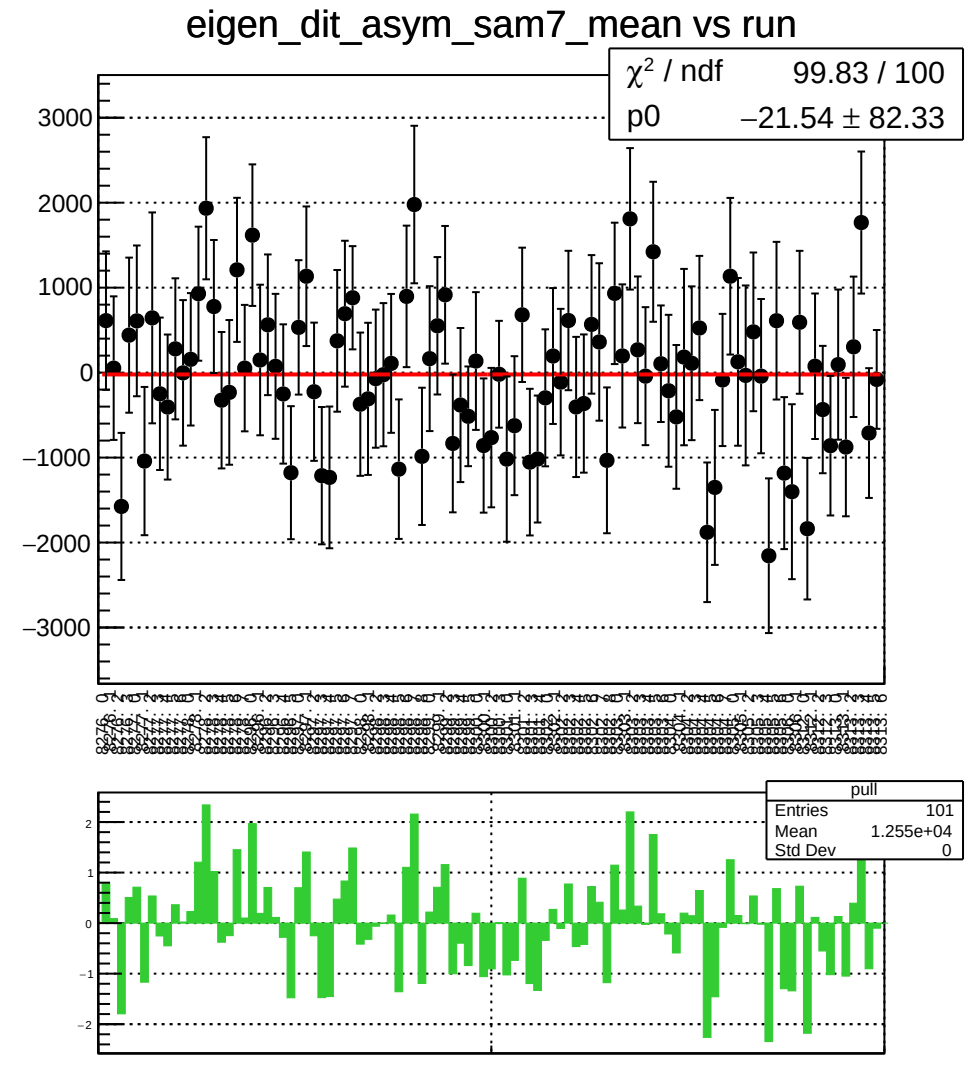

pull1D
Entries 101
Mean −0.0003669
Std Dev 0.9942
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

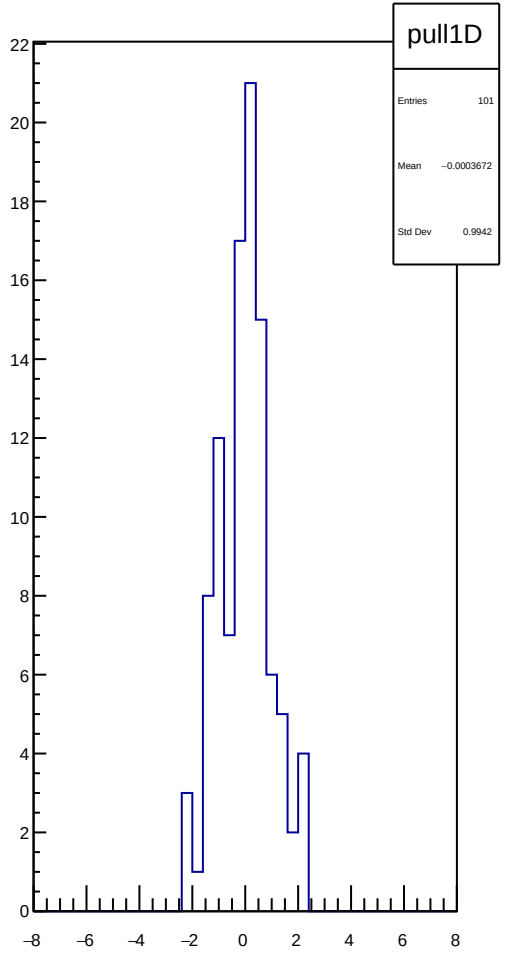

dit_asym_sam7_rms vs run
χ^2 / ndf 9033 / 100
p0 80.63 ± 0.05822
120
110
100
90
80
70

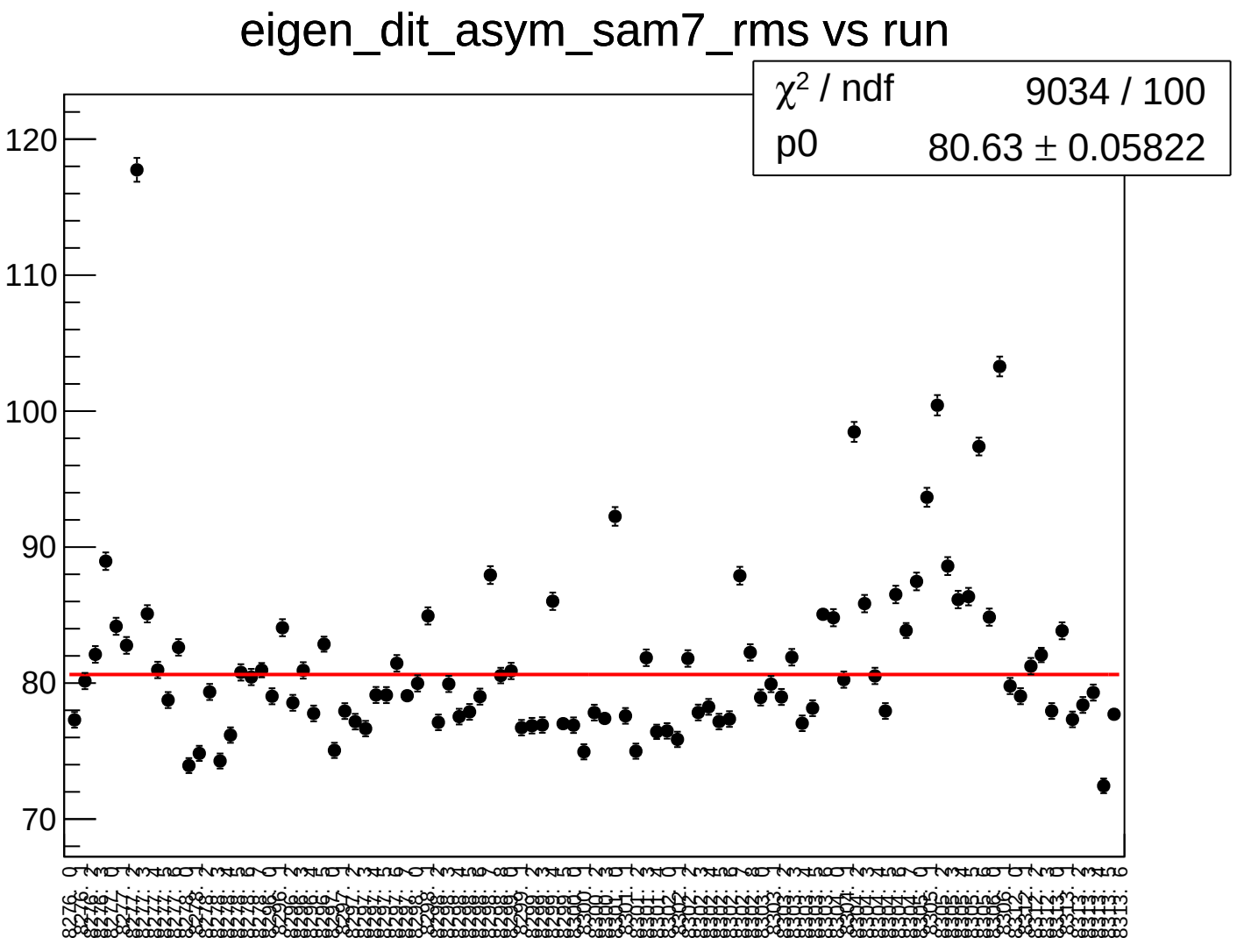

asym_sam7_dit_correction_mean vs run
χ² / ndf 104.3 / 100
p0 −62.96 ± 863.6
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 101
Mean −1562
Std Dev 0
3
2
1
0
−1
−2

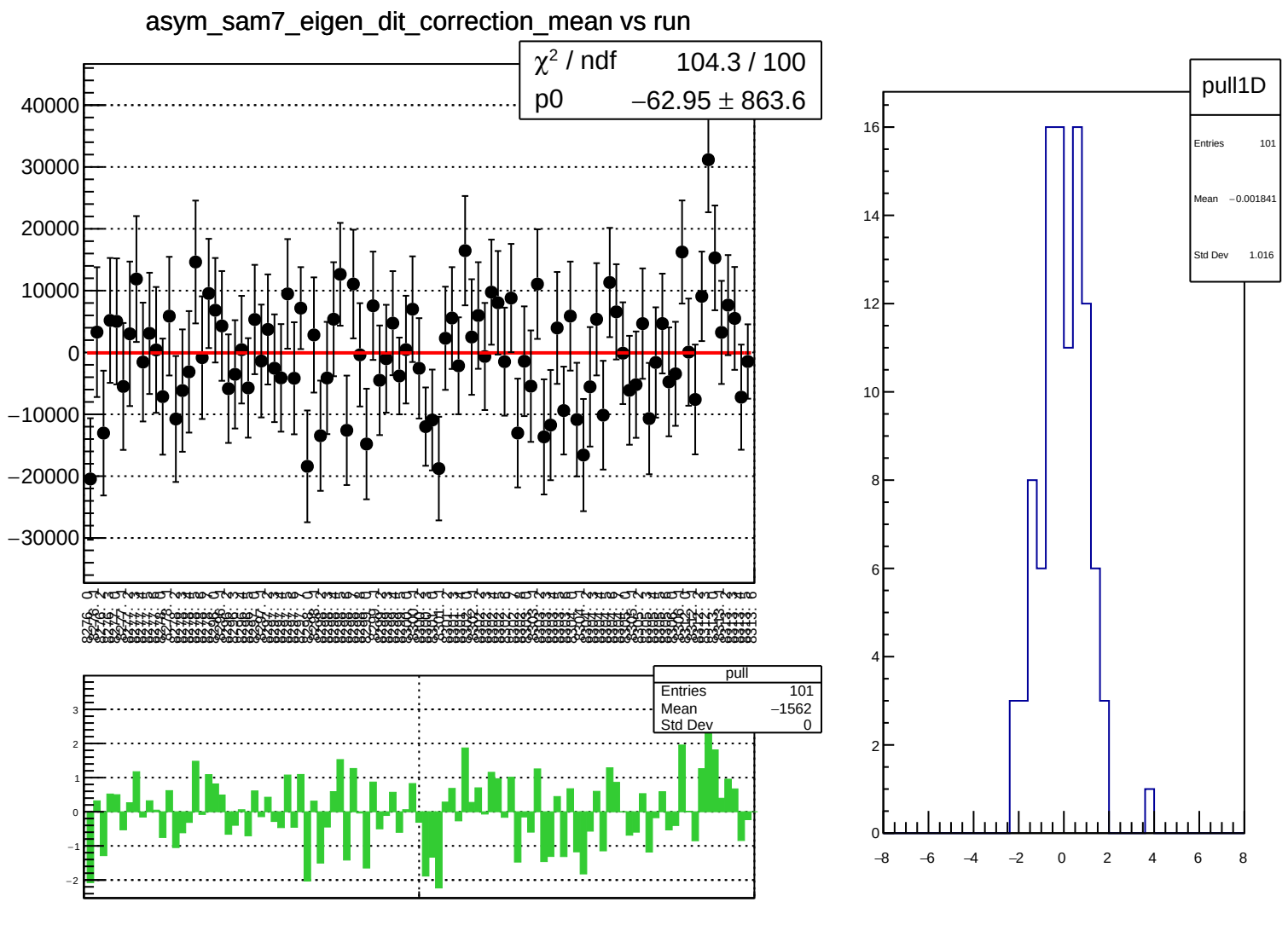

pull1D
Entries 101
Mean −0.001841
Std Dev 1.016
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

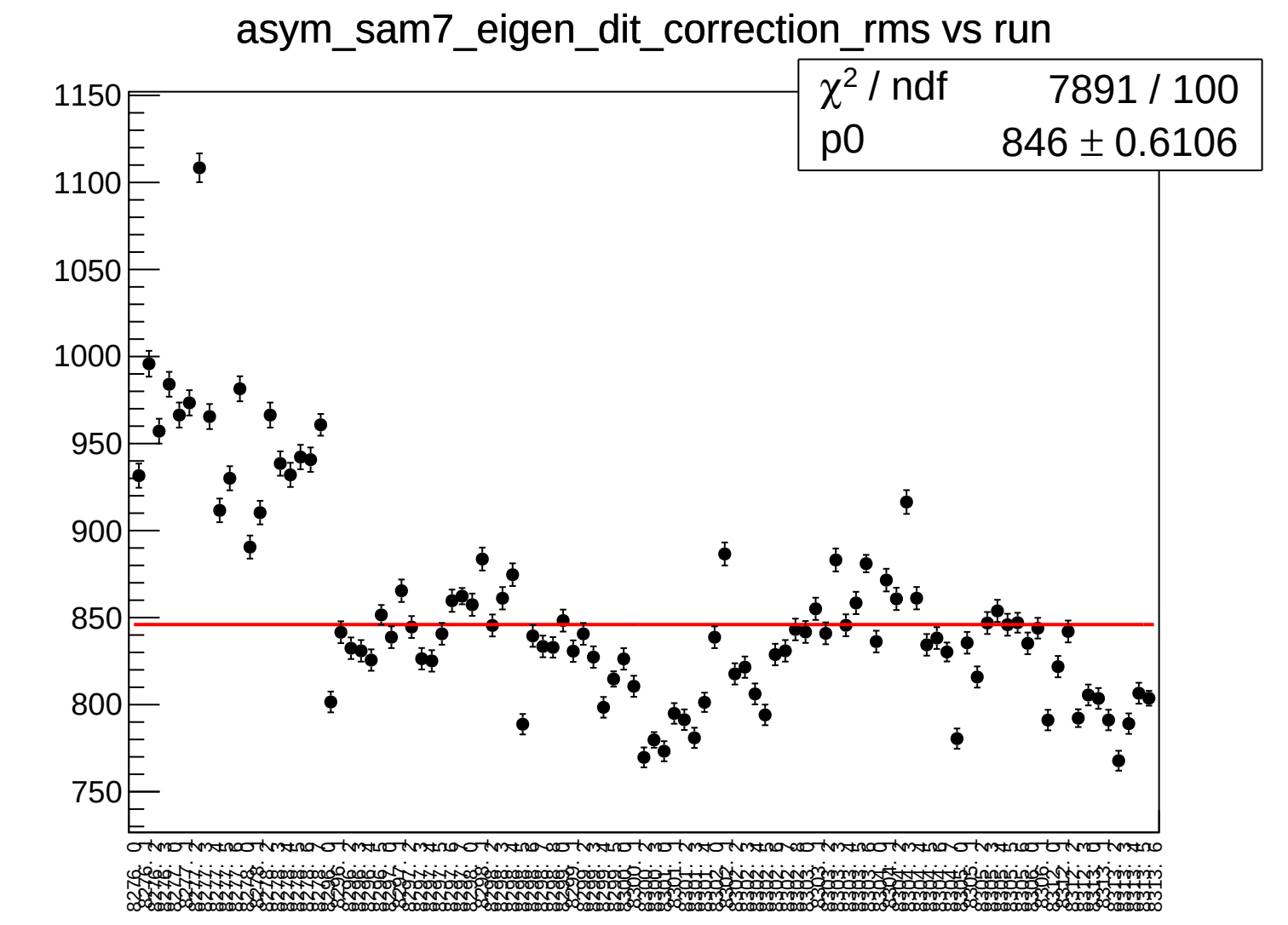

asym_sam7_dit_correction_rms vs run
χ² / ndf 7891 / 100
p0 846 ± 0.6106
1150
1100
1050
1000
950
900
850
800
750

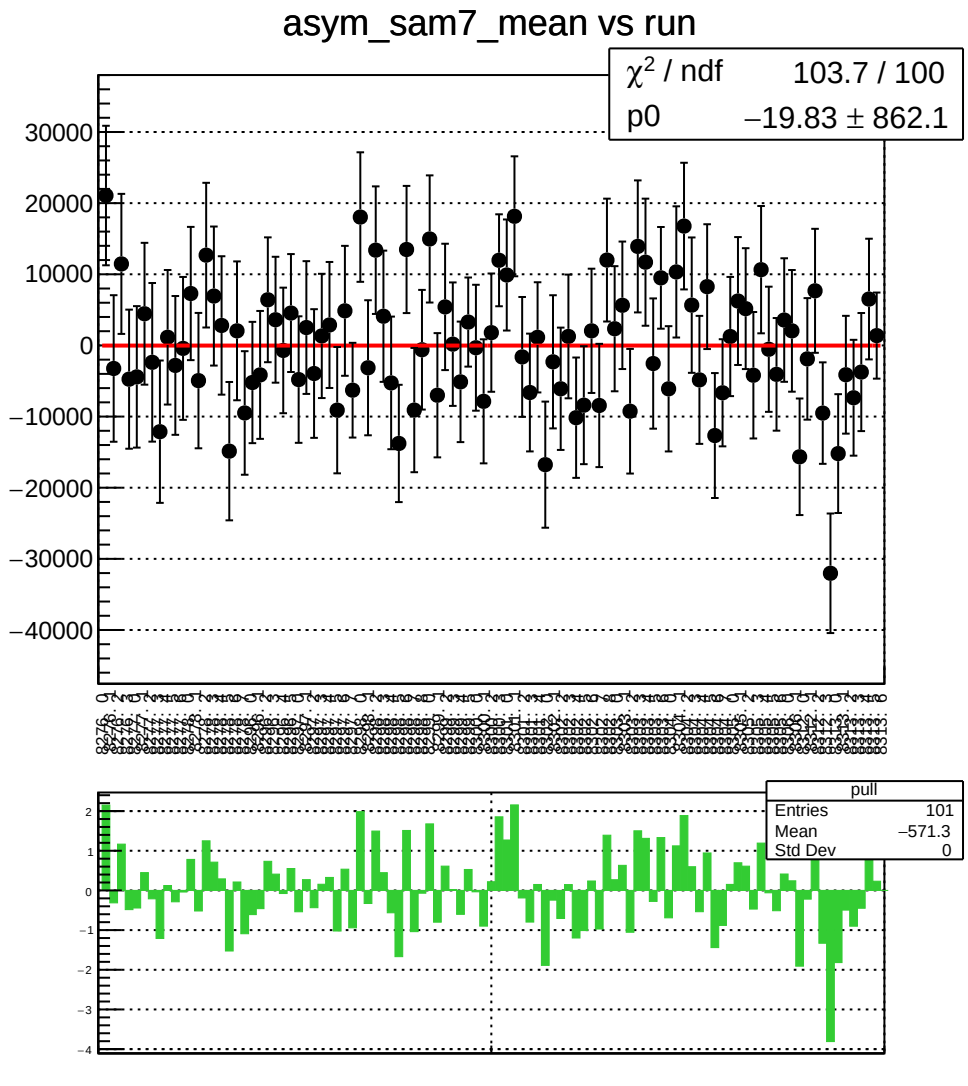

eigen_dit_asym_sam7_mean vs run
χ² / ndf 99.83 / 100
p0 −21.54 ± 82.33
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 101
Mean 1.255e+04
Std Dev 0
2
1
0
−1
−2

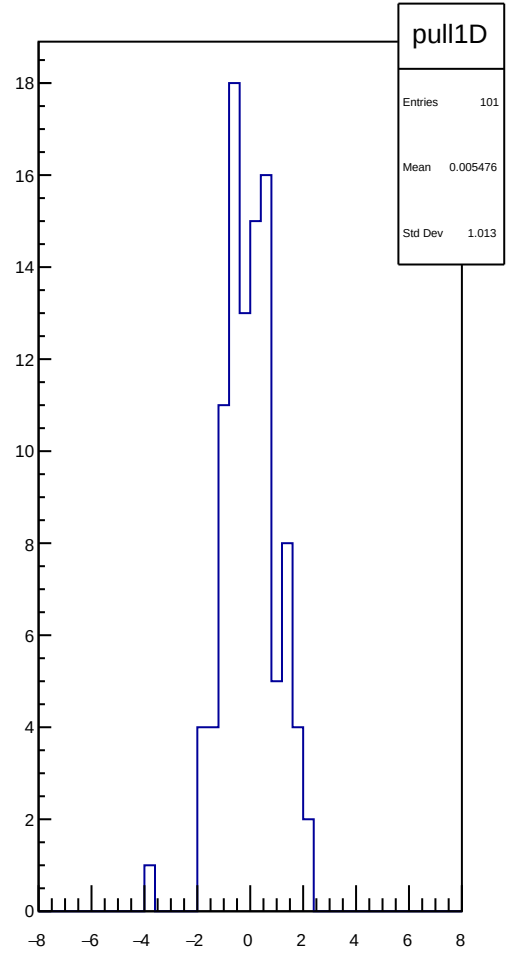

pull1D
Entries 101
Mean −0.0003672
Std Dev 0.9942
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

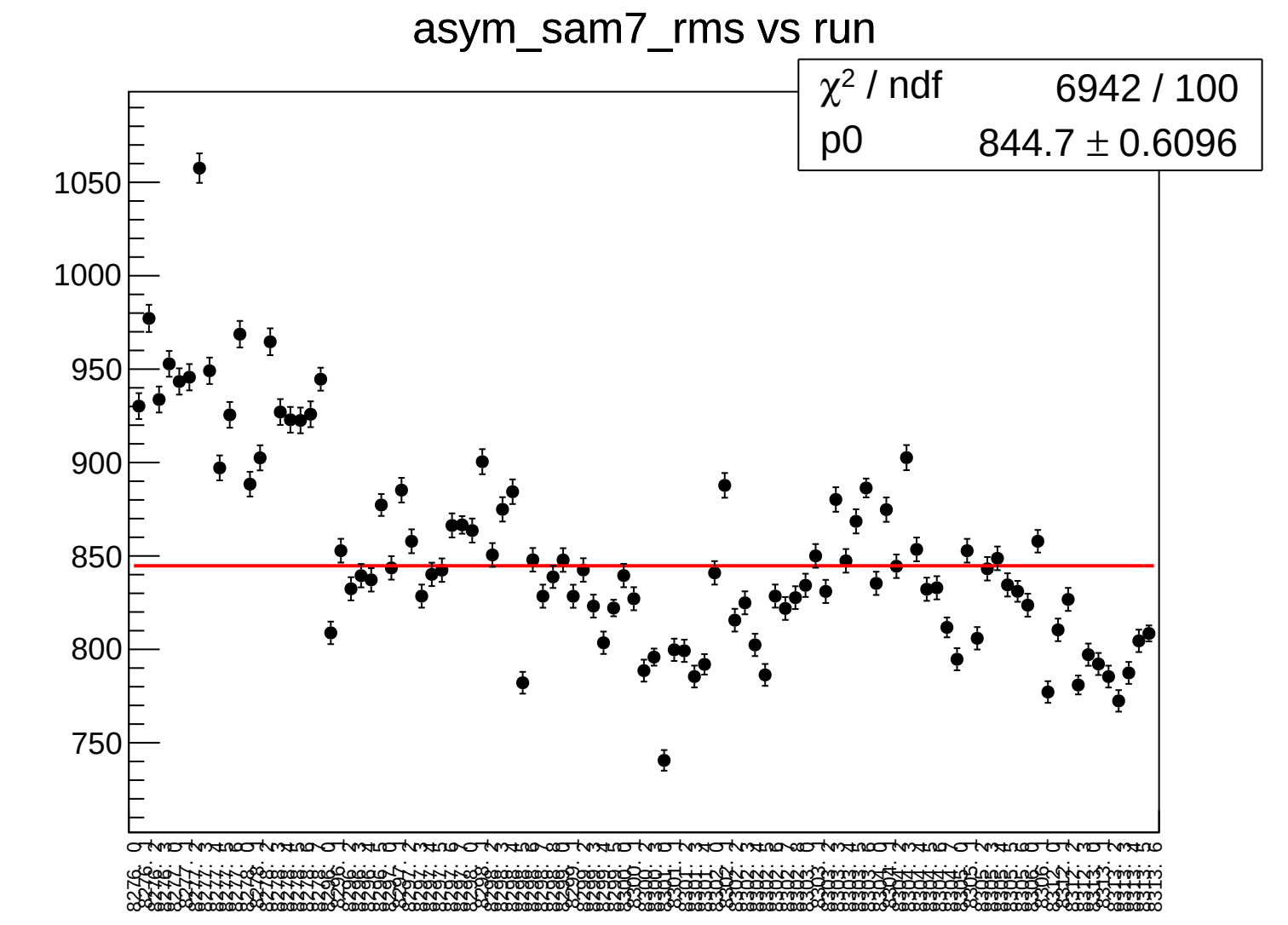

eigen_dit_asym_sam7_rms vs run
χ^2 / ndf 9034 / 100
p0 80.63 ± 0.05822
120
110
100
90
80
70

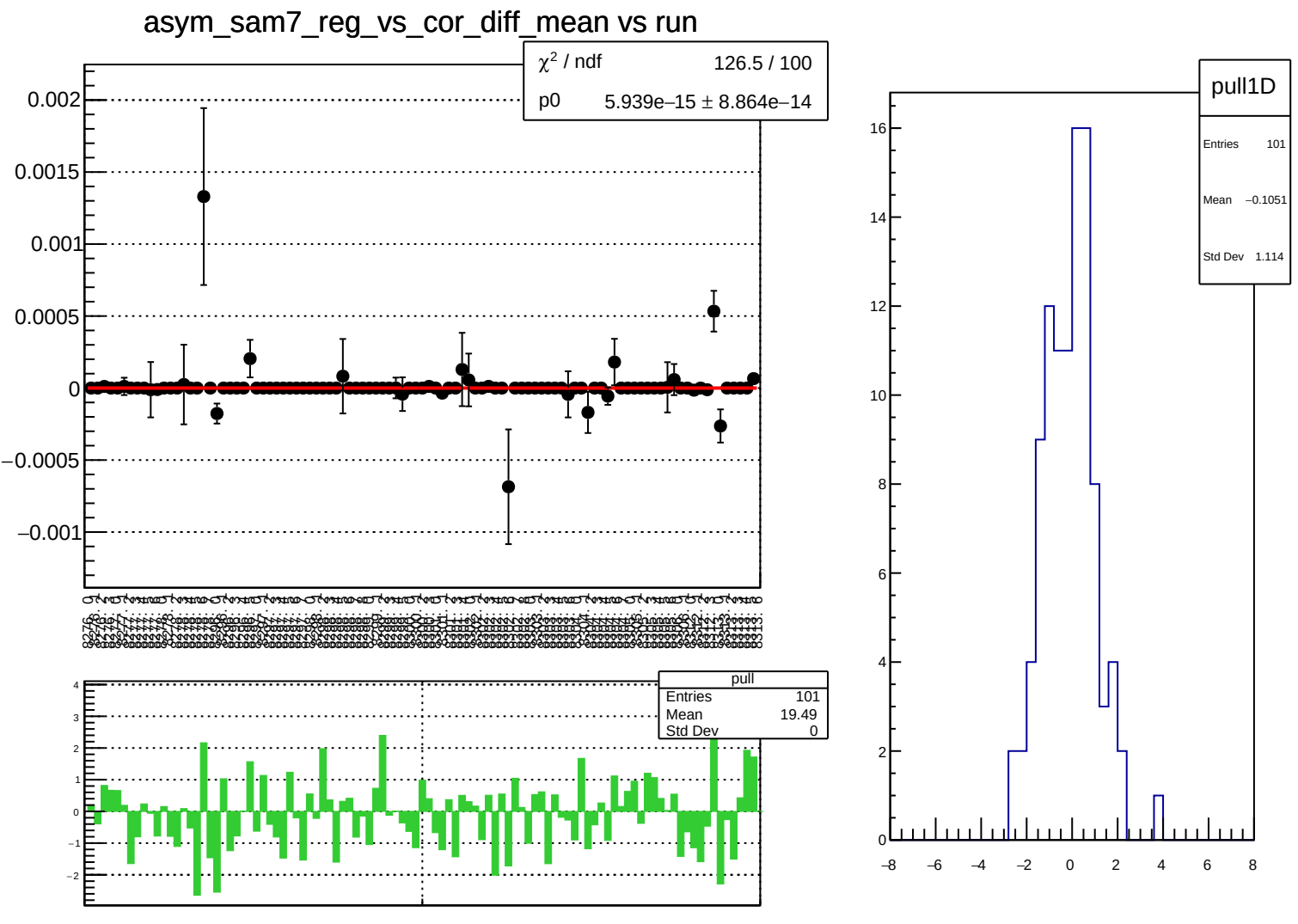

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 104.3 / 100
p0 −62.95 ± 863.6
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 101
Mean −1562
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.001841
Std Dev 1.016
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

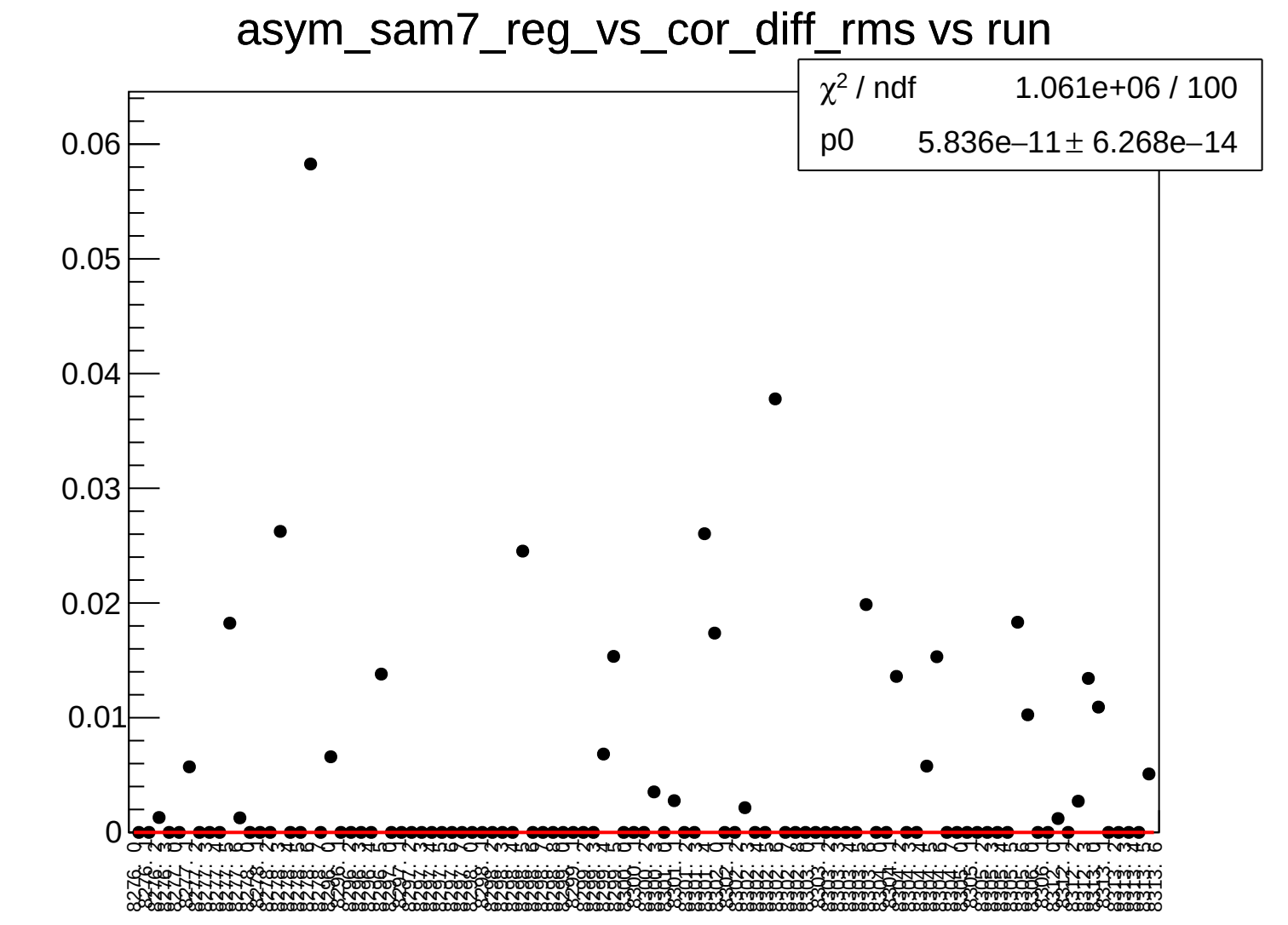

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 7891 / 100
p0 846 ± 0.6106
1150
1100
1050
1000
950
900
850
800
750

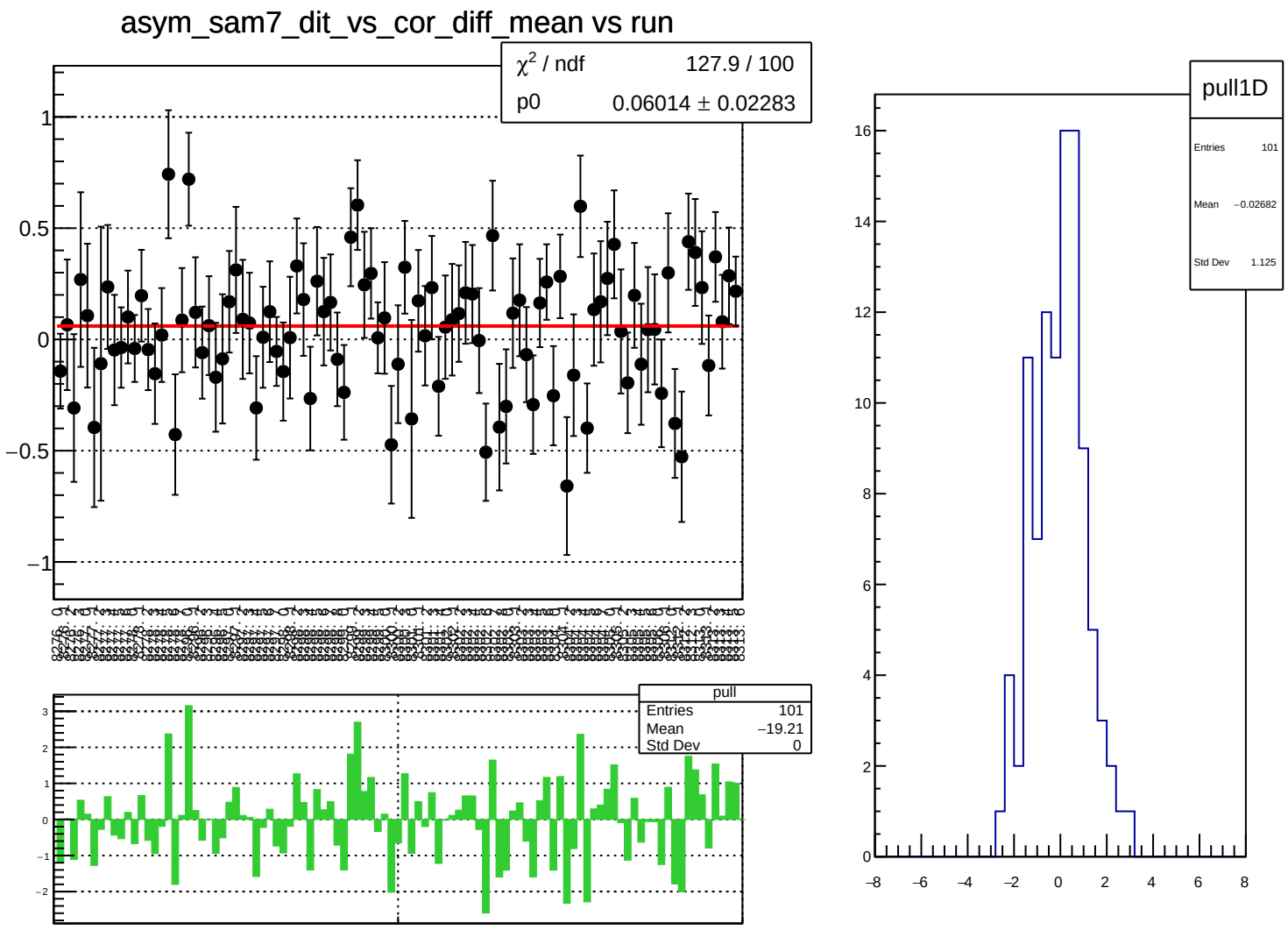

asym_sam7_mean vs run
χ² / ndf 103.7 / 100
p0 −19.83 ± 862.1
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 101
Mean −571.3
Std Dev 0
2
1
0
−1
−2
−3
−4

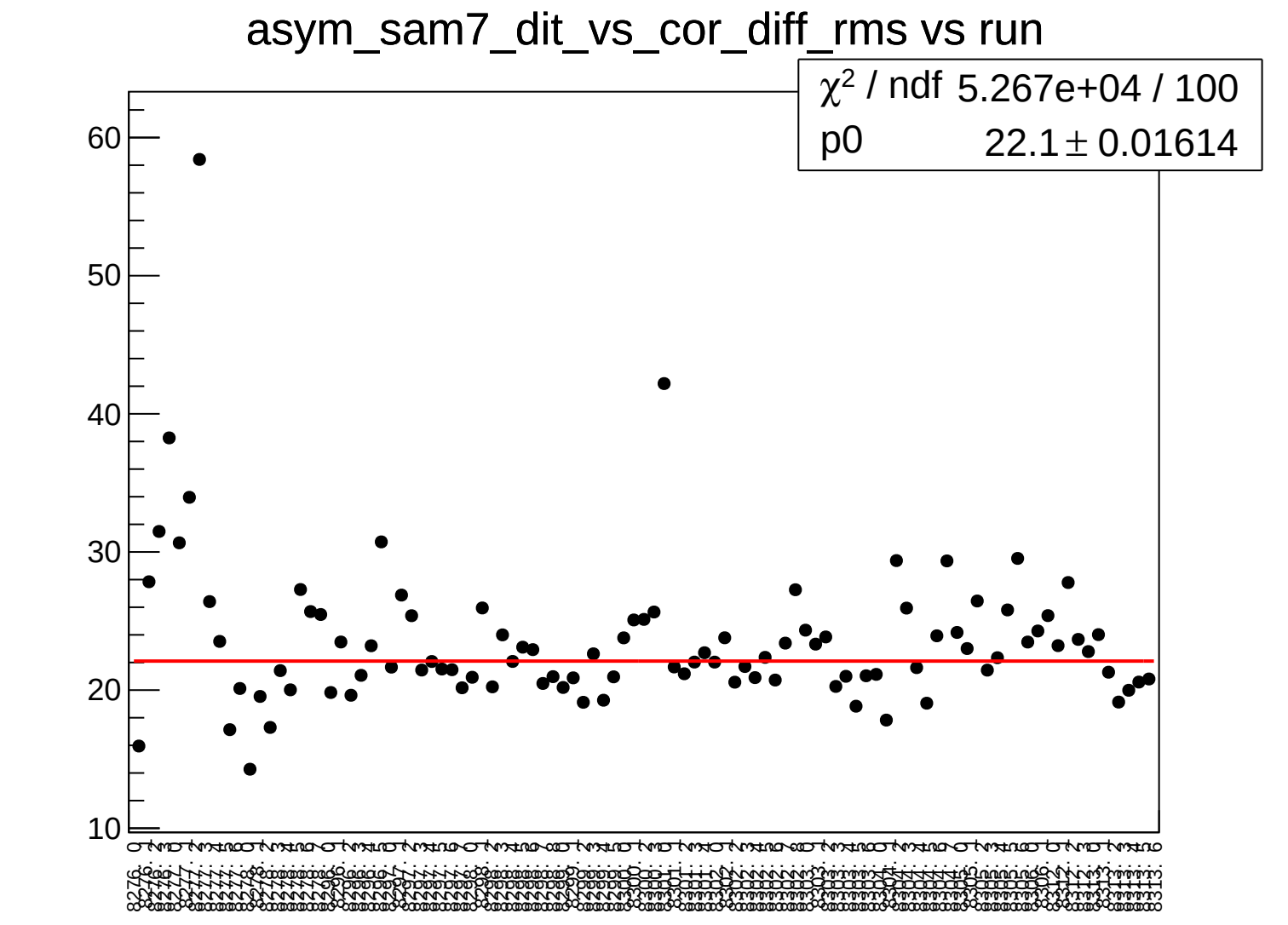

pull1D
Entries 101
Mean 0.005476
Std Dev 1.013
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

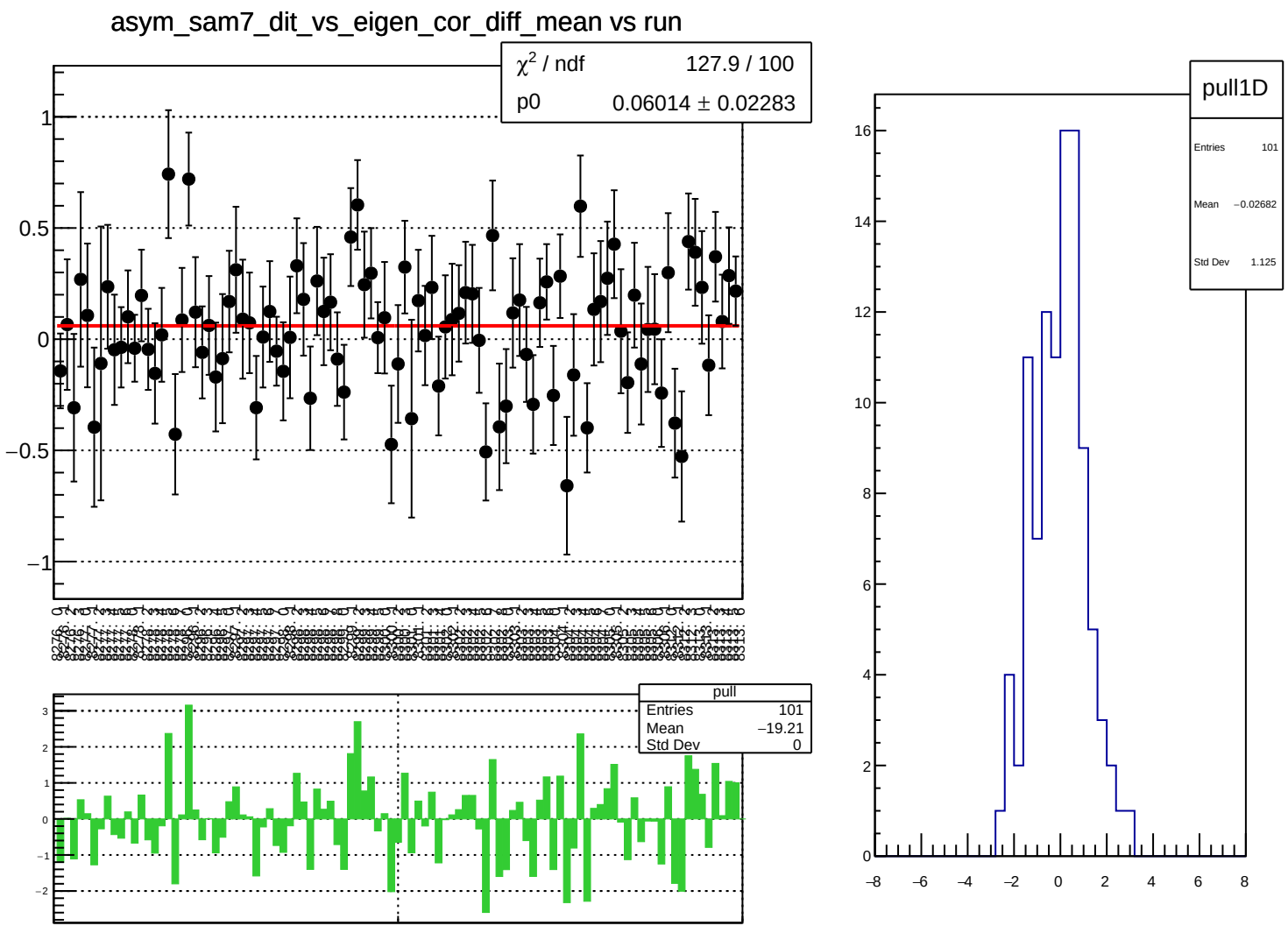

asym_sam7_rms vs run
χ² / ndf 6942 / 100
p0 844.7 ± 0.6096
1050
1000
950
900
850
800
750

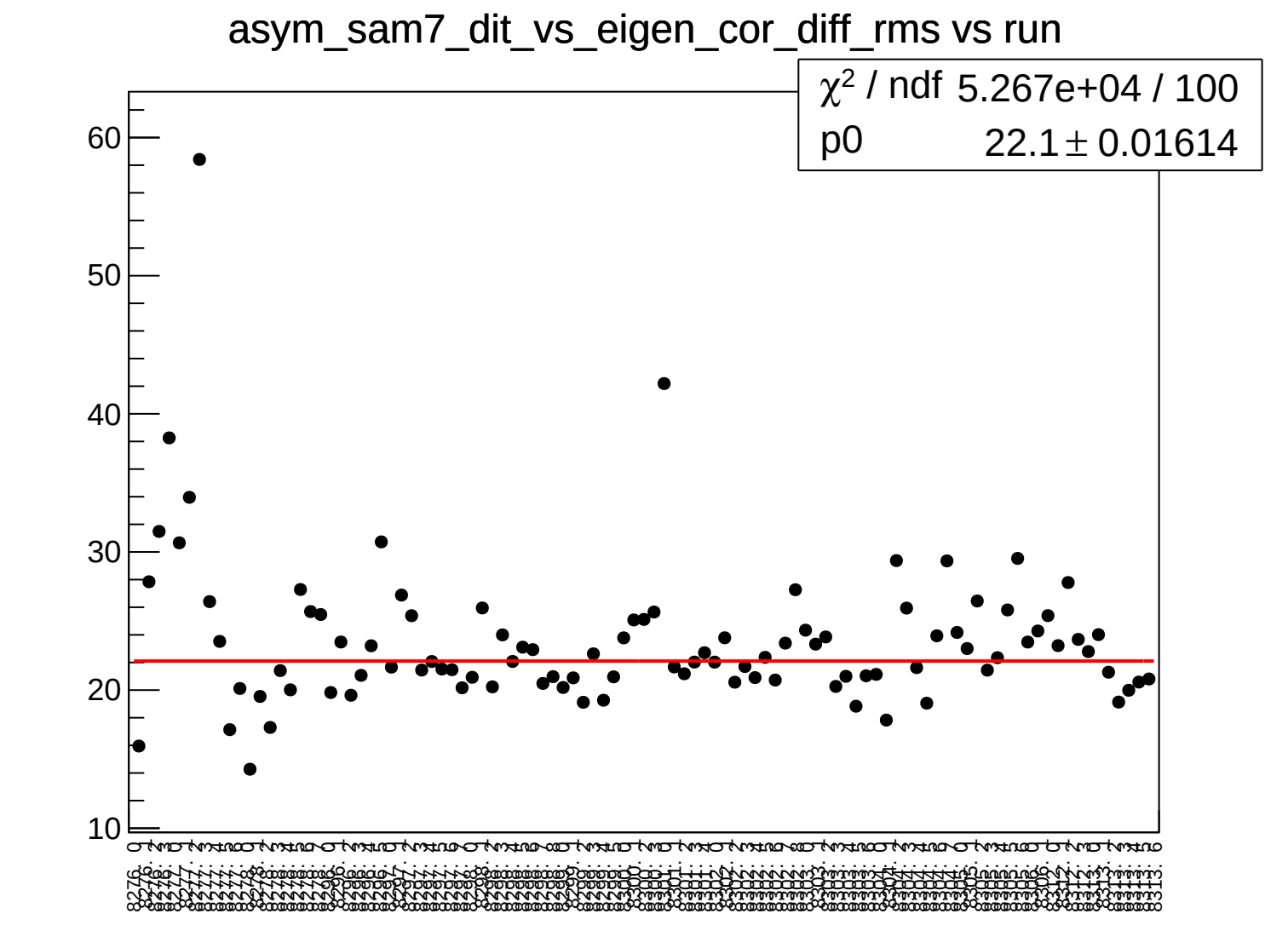

asym_sam7_reg_vs_cor_diff_mean vs run
χ² / ndf 126.5 / 100
p0 5.939e−15 ± 8.864e−14
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 101
Mean 19.49
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.1051
Std Dev 1.114
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

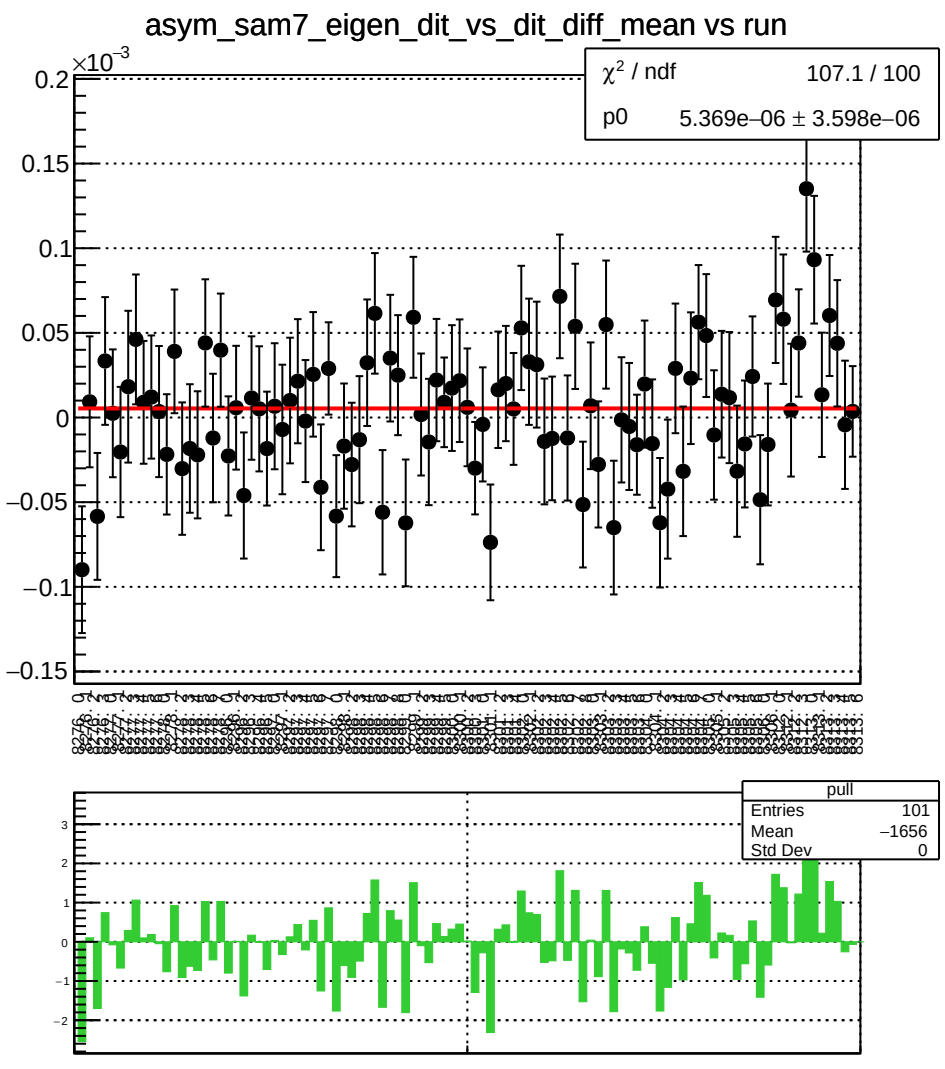

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 1.061e+06 / 100
p0 5.836e−11 ± 6.268e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

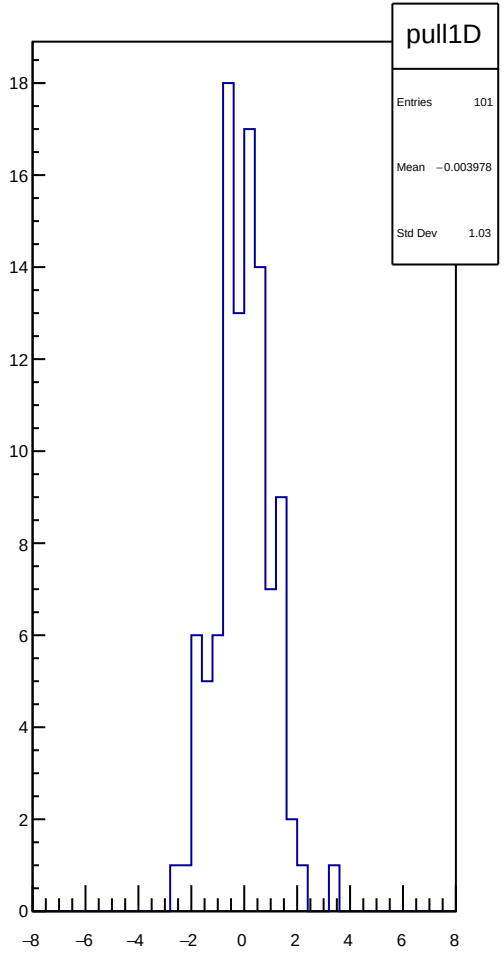

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 127.9 / 100
p0 0.06014 ± 0.02283
pull
Entries 101
Mean −19.21
Std Dev 0
pull1D
Entries 101
Mean −0.02682
Std Dev 1.125

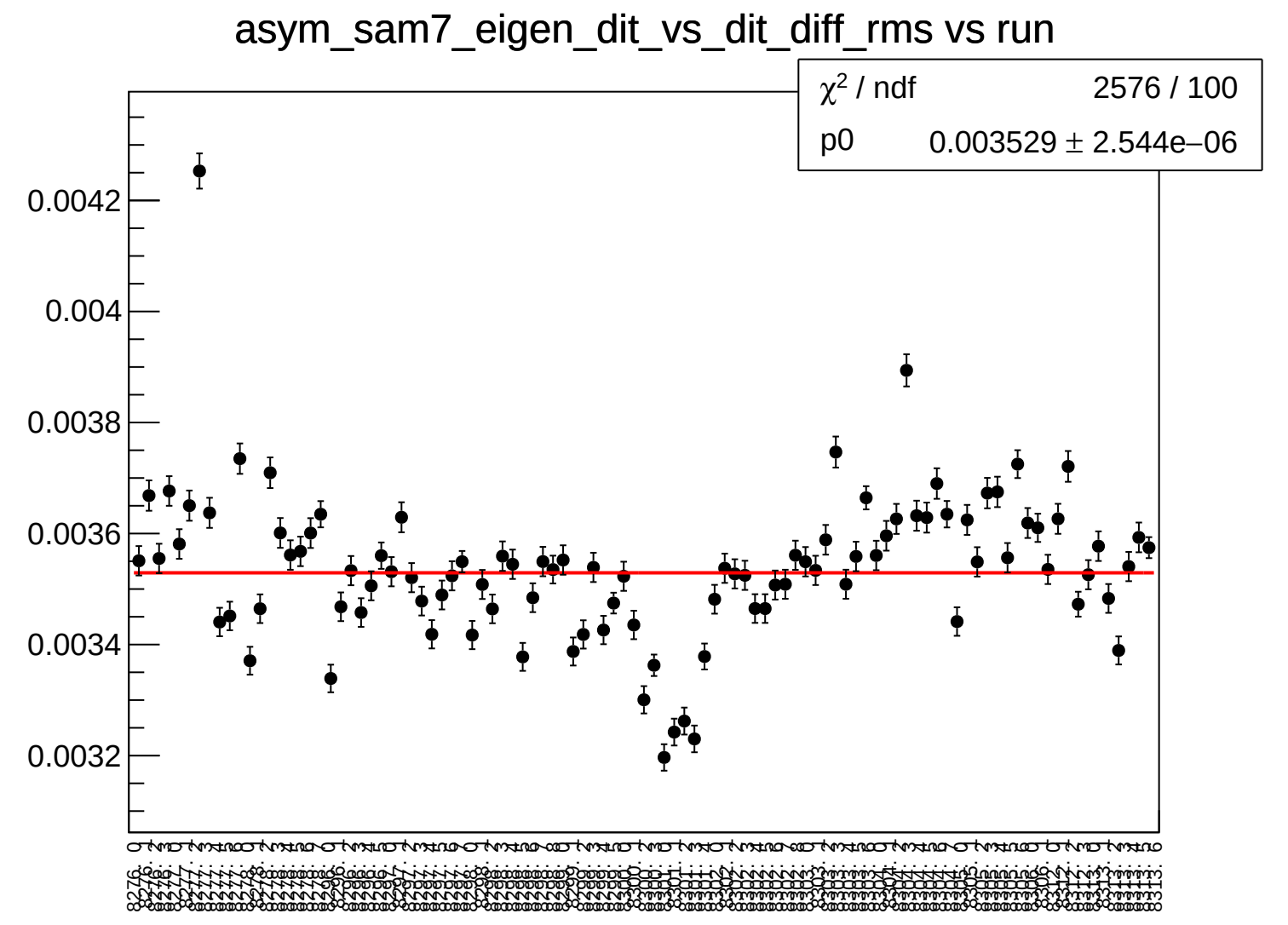

asym_sam7_dit_vs_cor_diff_rms vs run
χ² / ndf 5.267e+04 / 100
p0 22.1 ± 0.01614
60
50
40
30
20
10

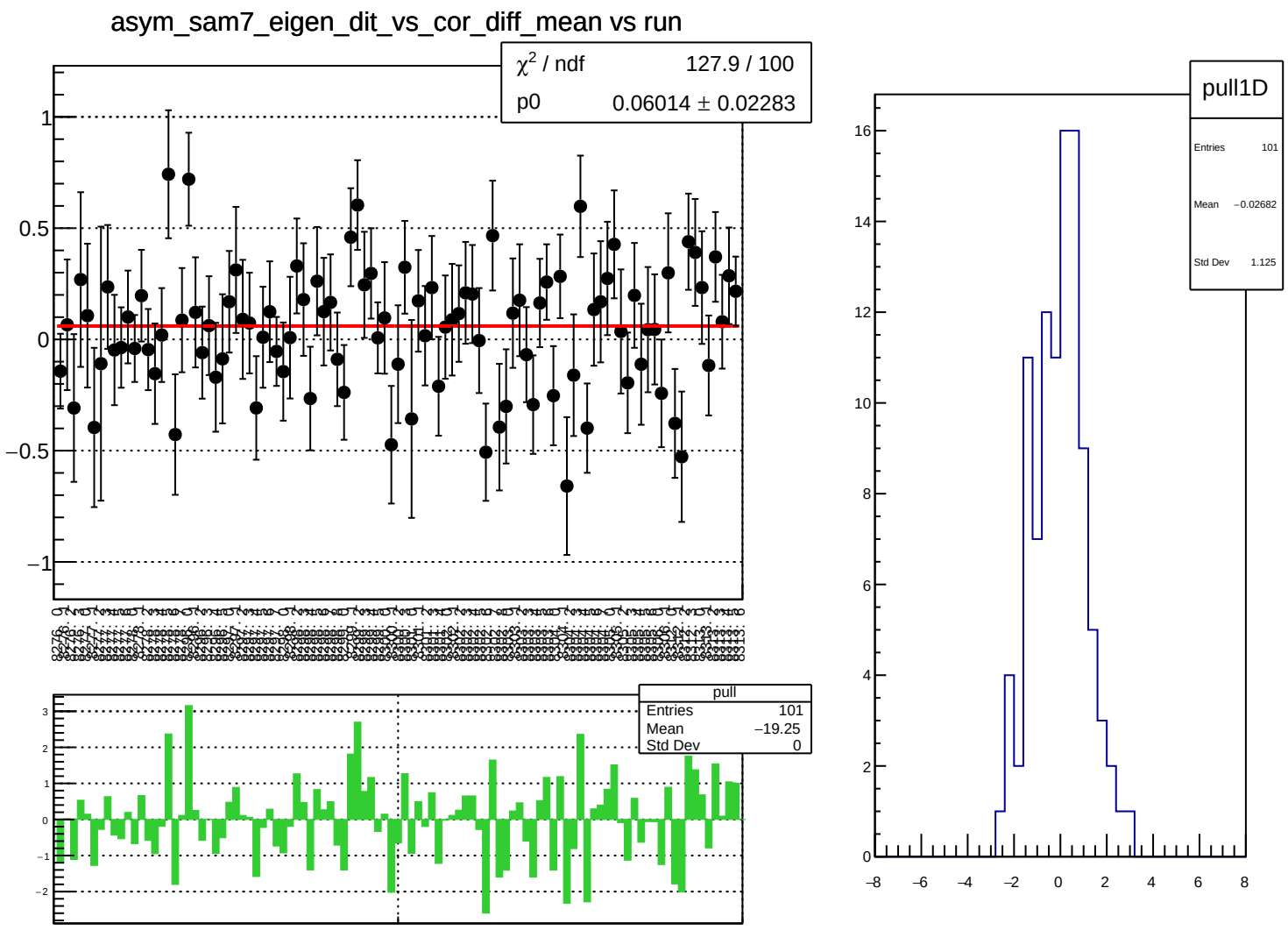

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 127.9 / 100
p0 0.06014 ± 0.02283
pull
Entries 101
Mean −19.21
Std Dev 0
pull1D
Entries 101
Mean −0.02682
Std Dev 1.125

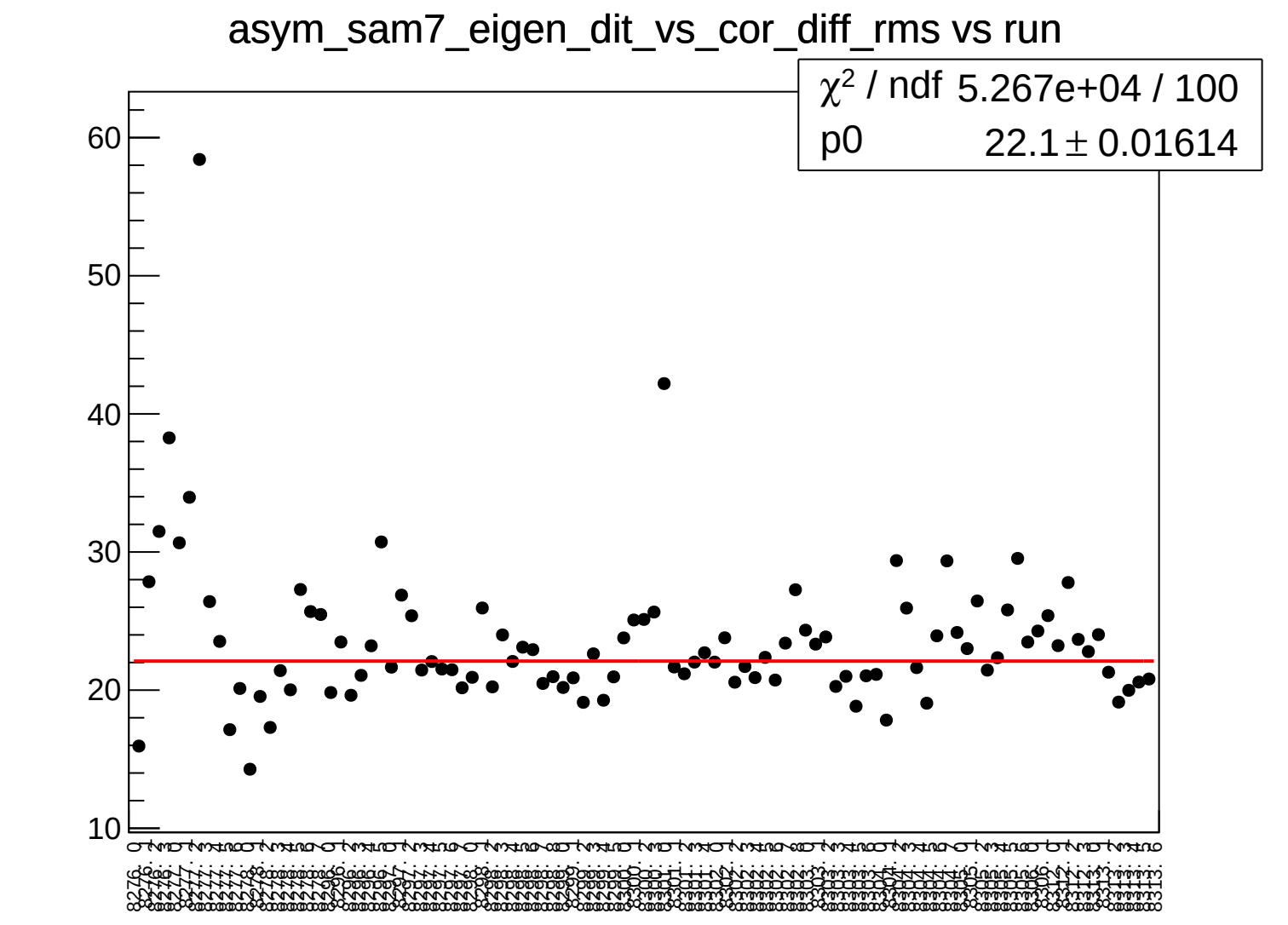

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.267e+04 / 100
p0 22.1 ± 0.01614
60
50
40
30
20
10

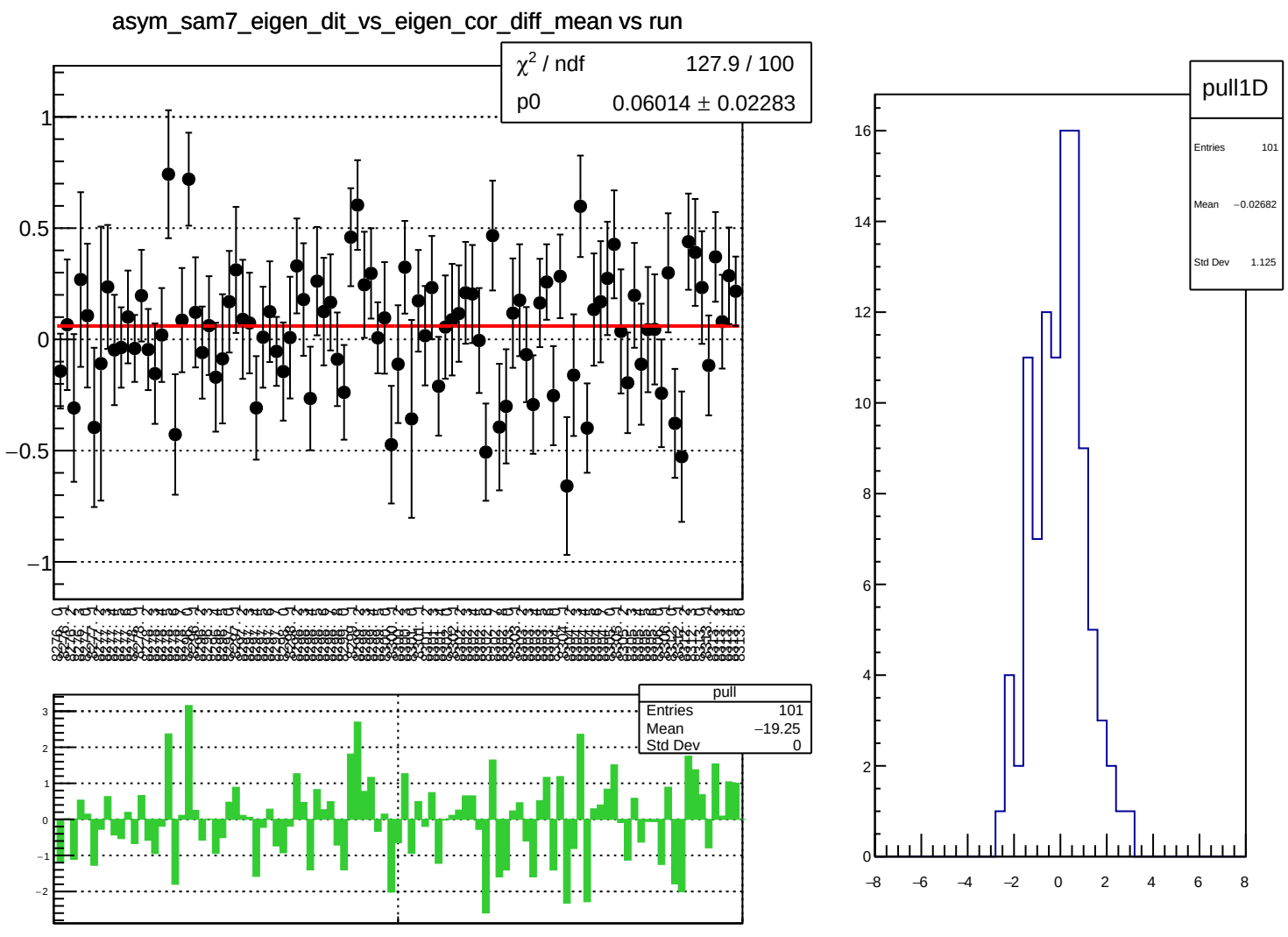

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 107.1 / 100
p0 5.369e−06 ± 3.598e−06
pull
Entries 101
Mean −1656
Std Dev 0

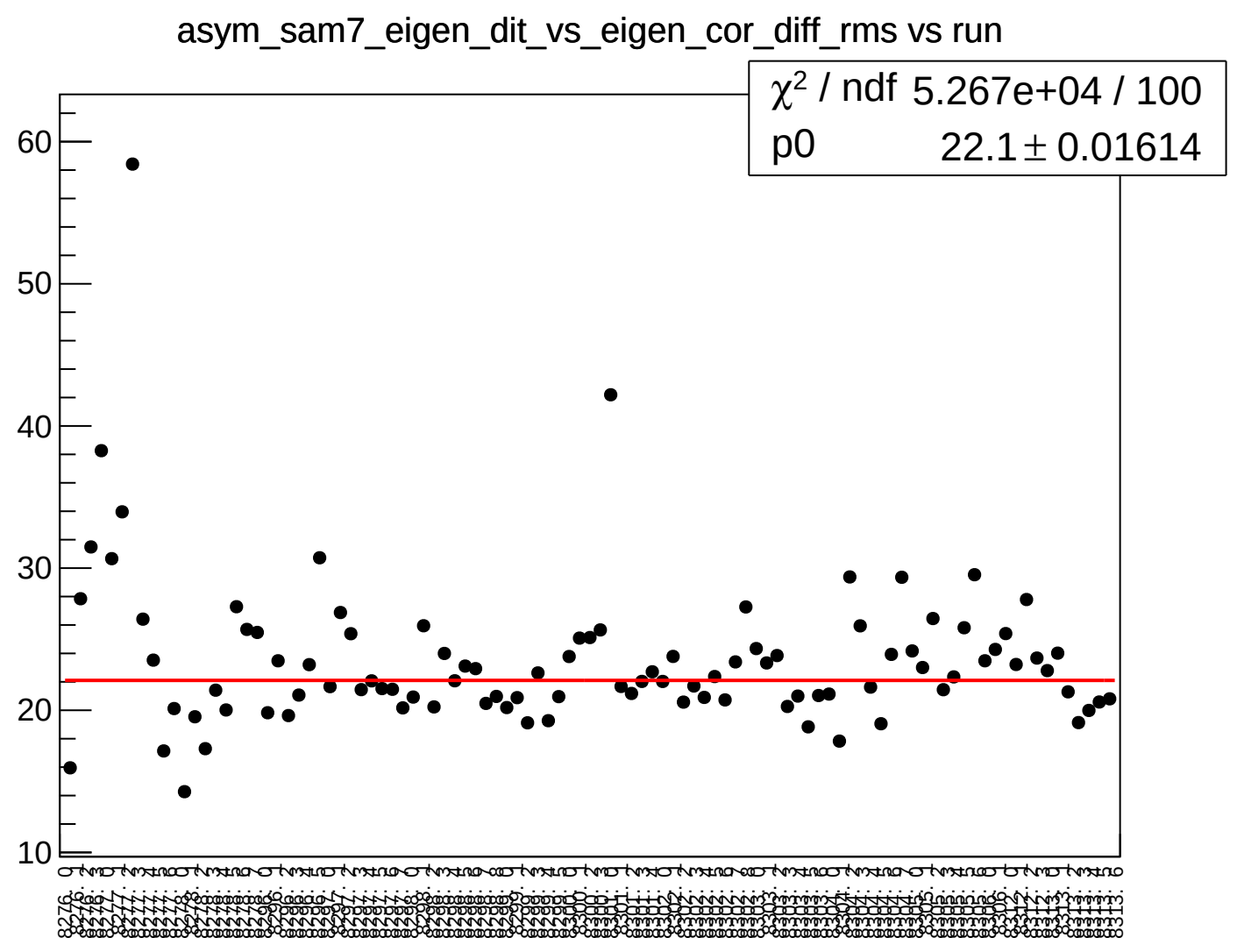

pull1D
Entries 101
Mean −0.003978
Std Dev 1.03

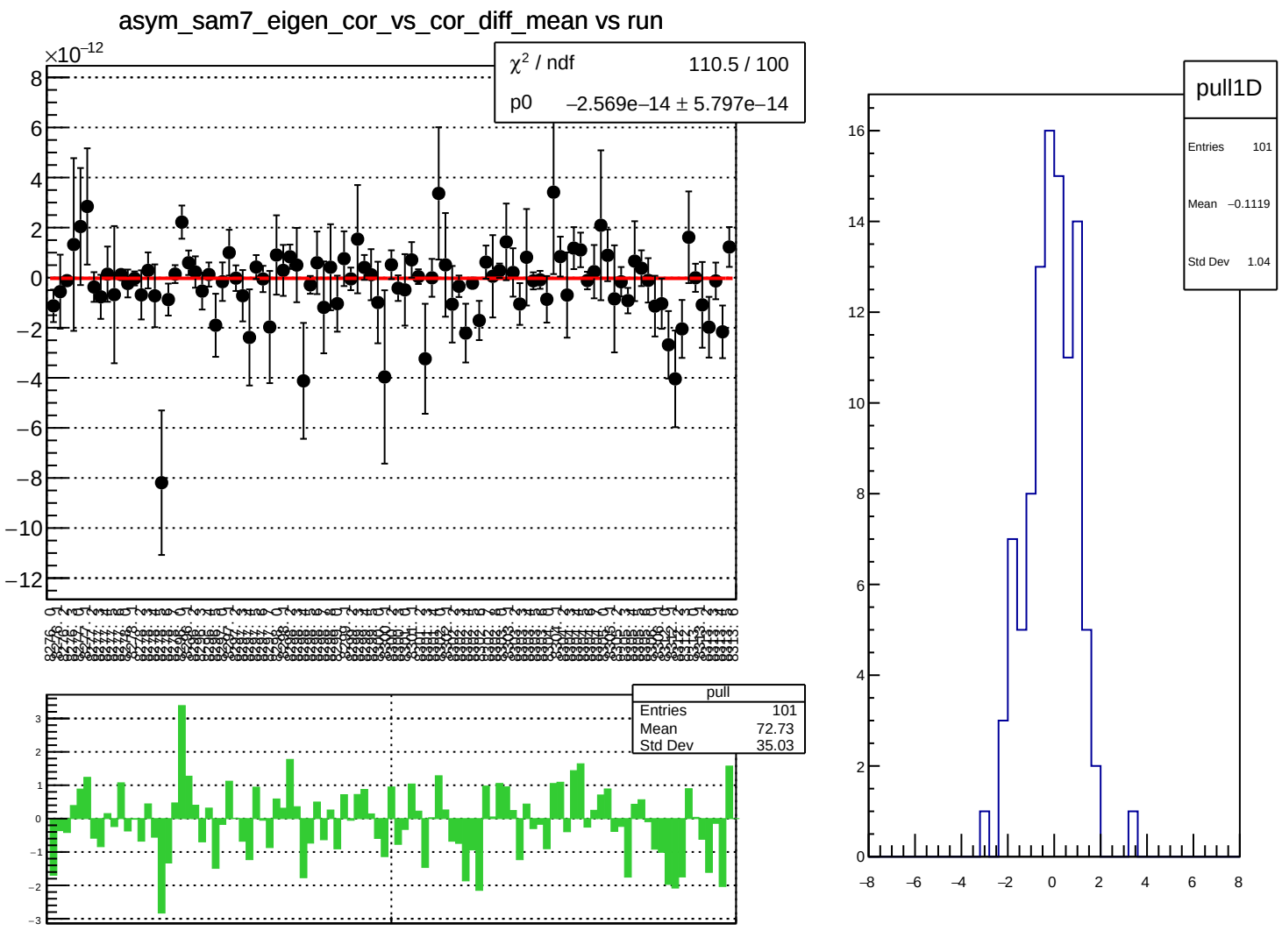

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2576 / 100
p0 0.003529 ± 2.544e−06
0.0042
0.004
0.0038
0.0036
0.0034
0.0032

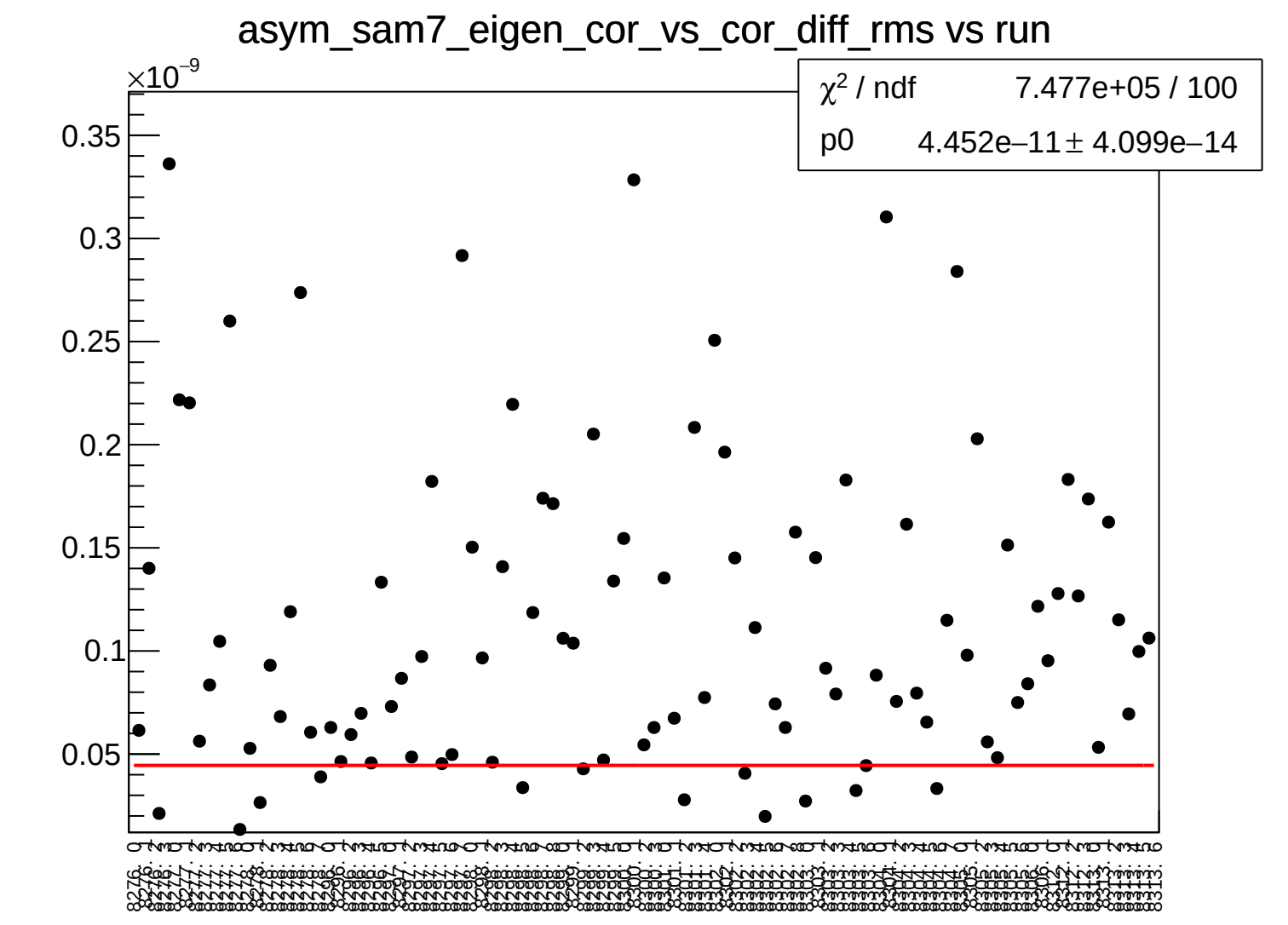

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 127.9 / 100
p0 0.06014 ± 0.02283
pull
Entries 101
Mean −19.25
Std Dev 0
pull1D
Entries 101
Mean −0.02682
Std Dev 1.125

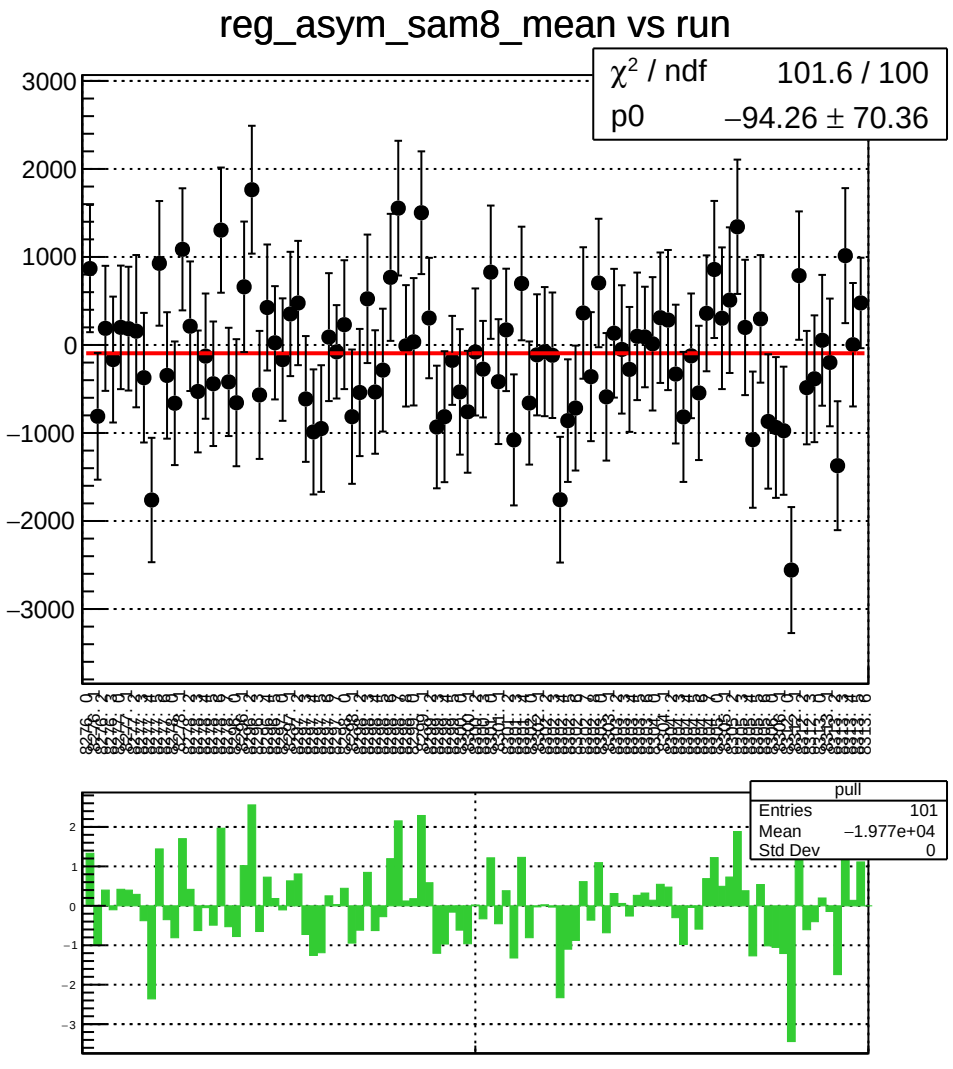

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.267e+04 / 100
p0 22.1 ± 0.01614
60
50
40
30
20
10

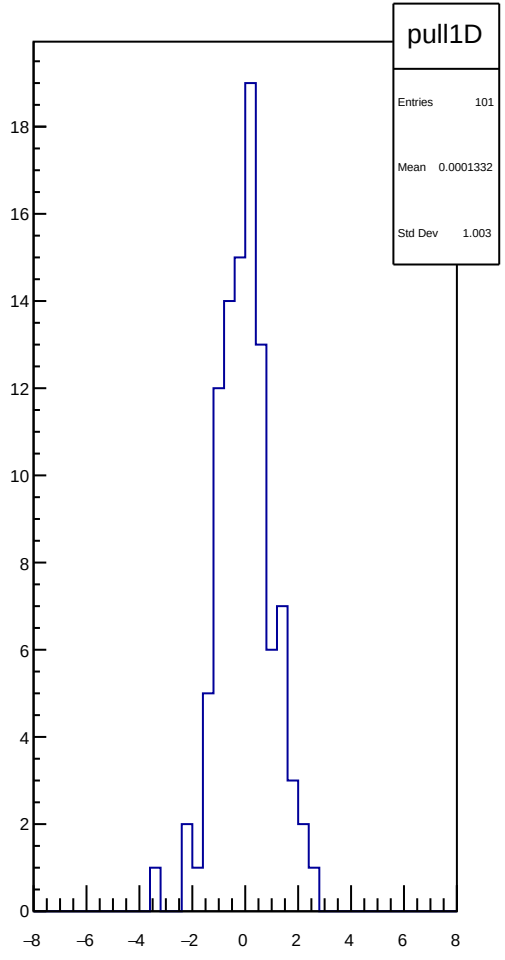

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 127.9 / 100
p0 0.06014 ± 0.02283
pull
Entries 101
Mean −19.25
Std Dev 0
pull1D
Entries 101
Mean −0.02682
Std Dev 1.125

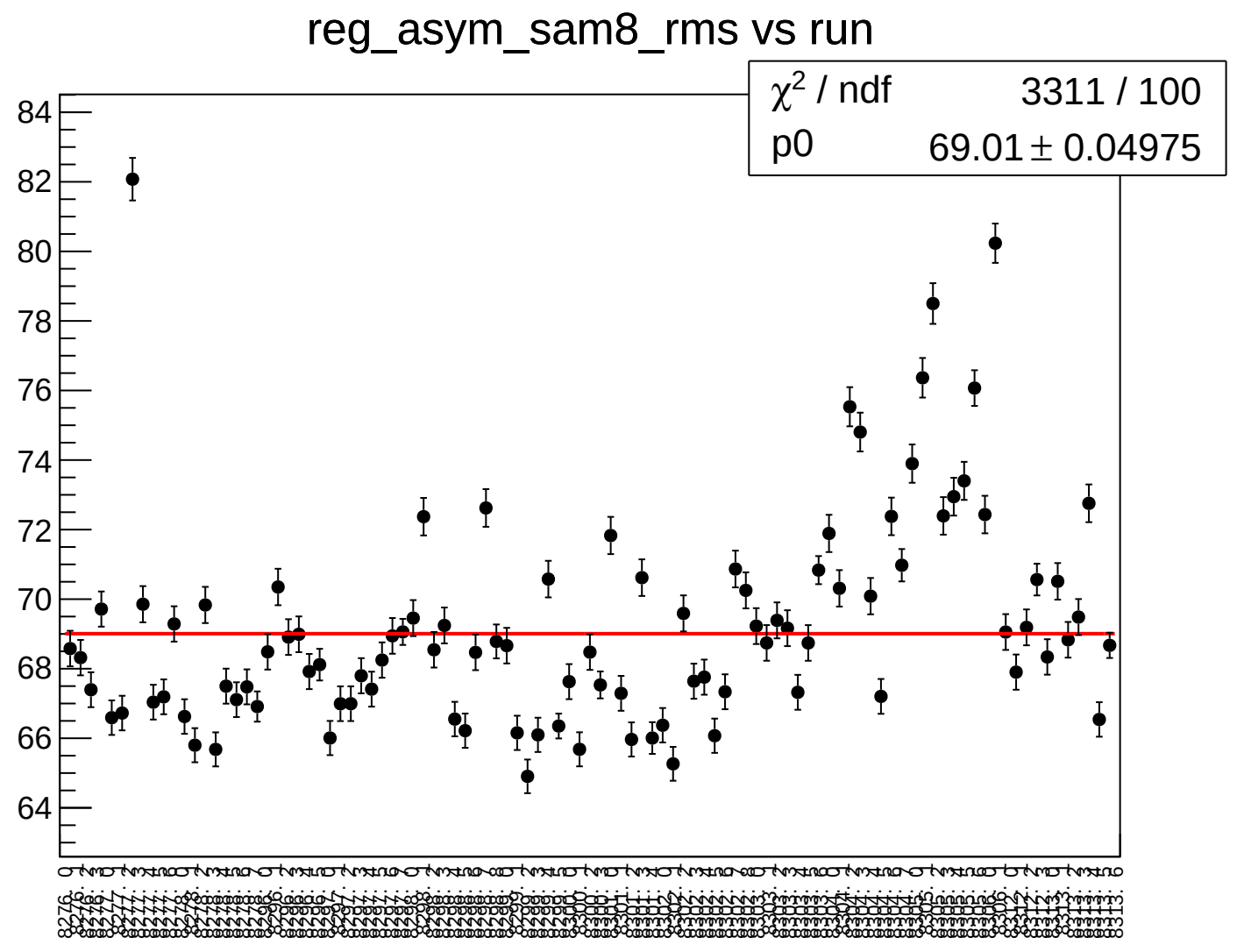

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.267e+04 / 100
p0 22.1 ± 0.01614
60
50
40
30
20
10

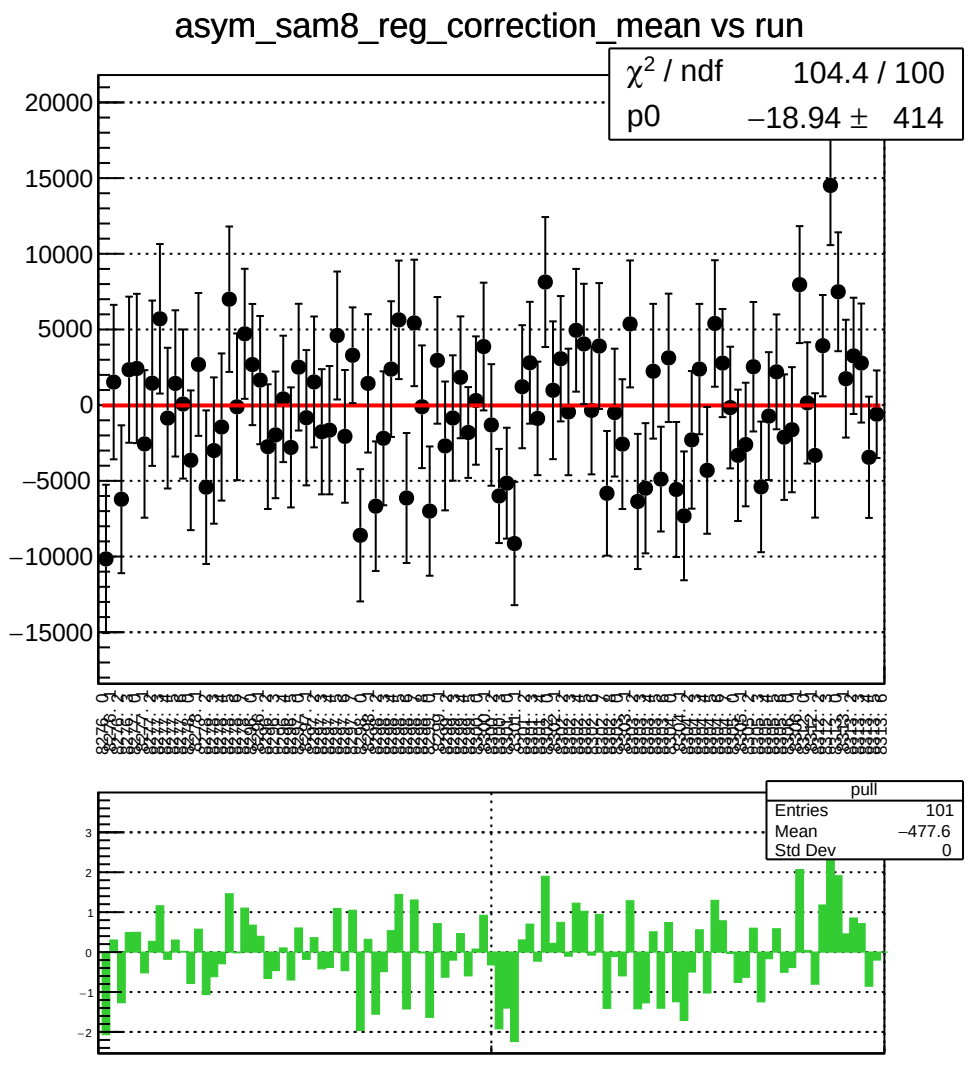

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 110.5 / 100
p0 −2.569e−14 ± 5.797e−14
pull
Entries 101
Mean 72.73
Std Dev 35.03
pull1D
Entries 101
Mean −0.1119
Std Dev 1.04

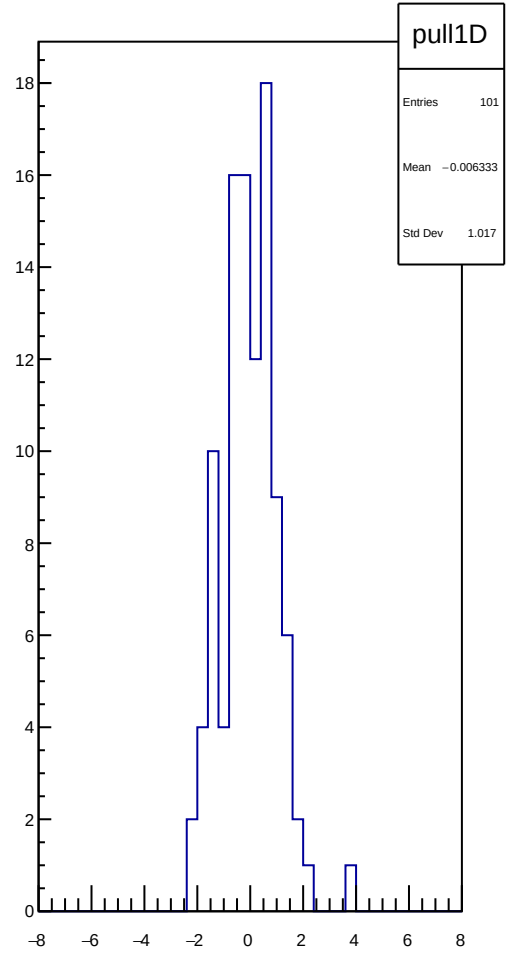

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.477e+05 / 100
p0 4.452e−11 ± 4.099e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

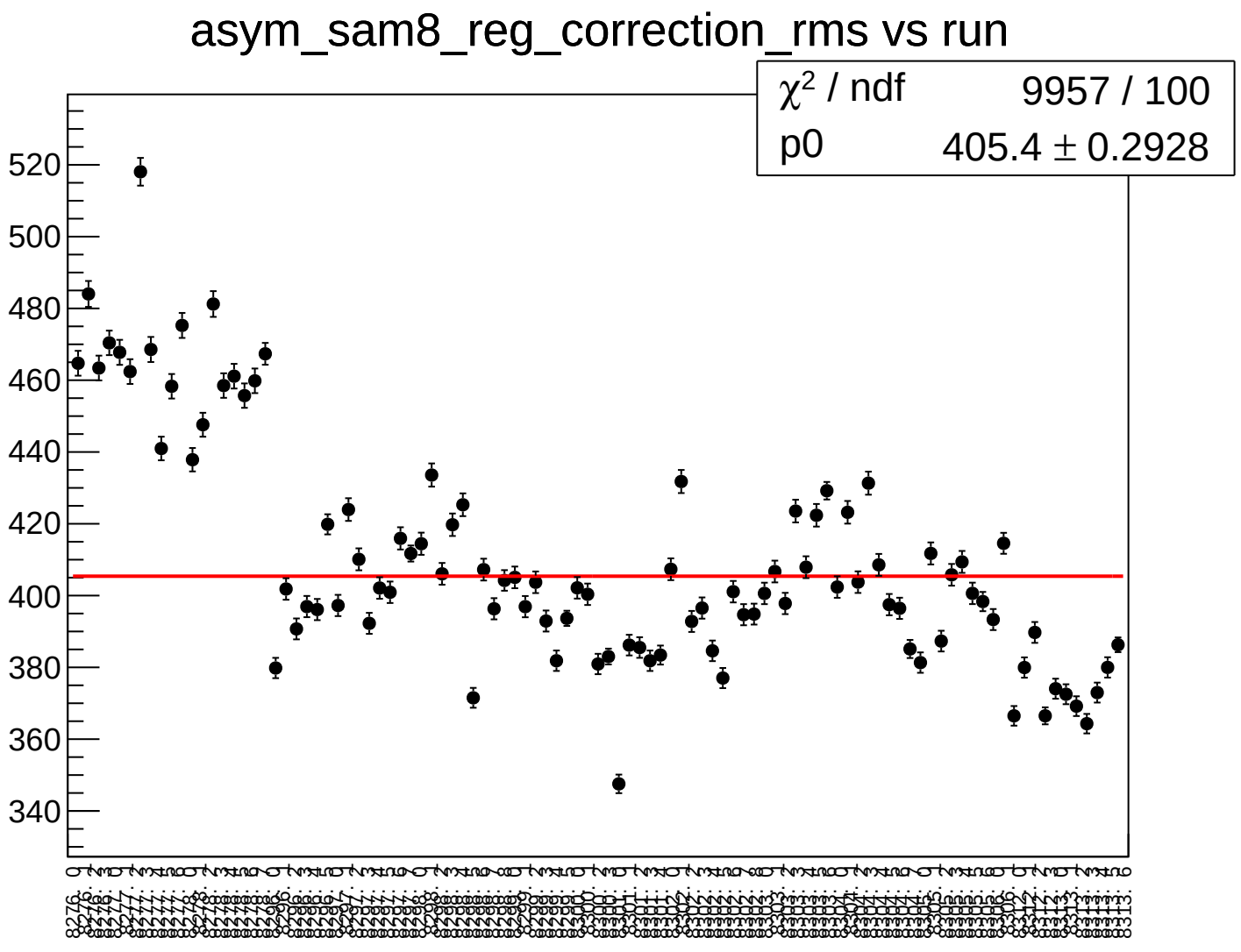

reg_asym_sam8_mean vs run
χ² / ndf 101.6 / 100
p0 −94.26 ± 70.36
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 101
Mean −1.977e+04
Std Dev 0
2
1
0
−1
−2
−3

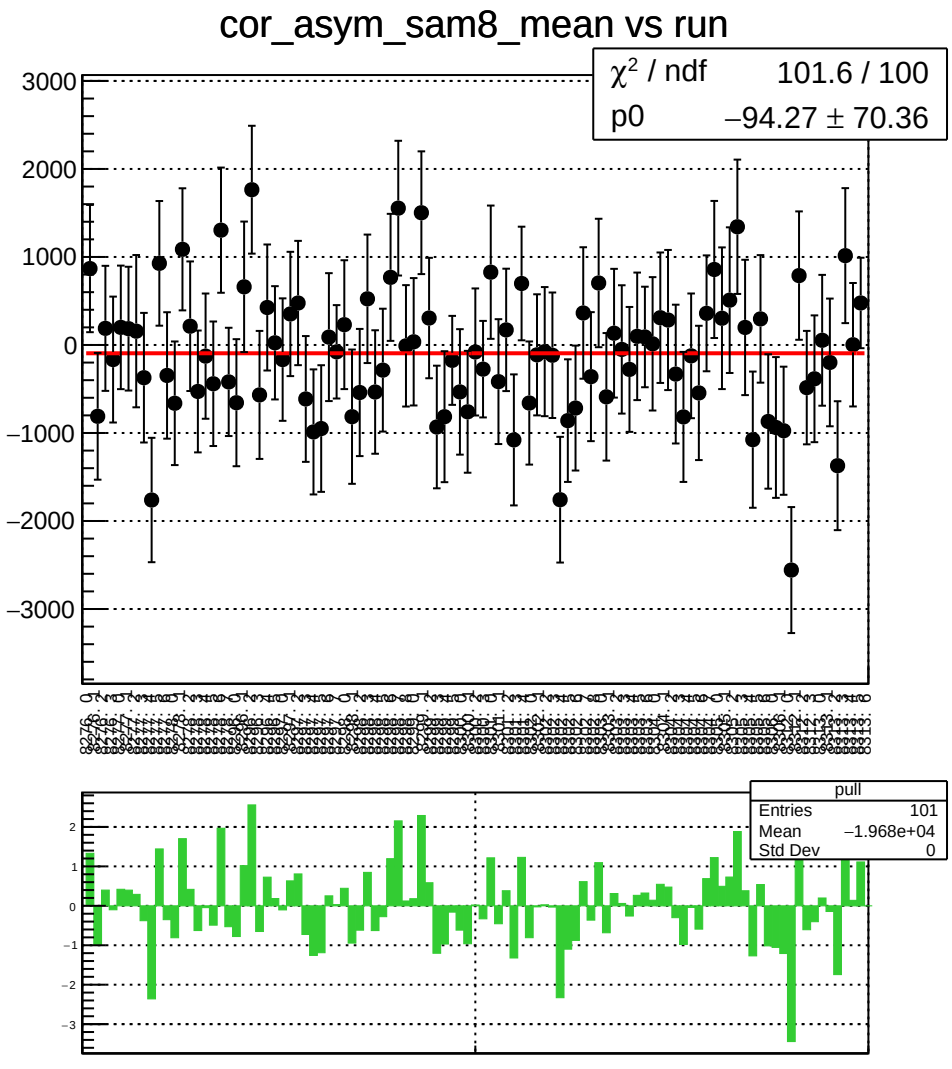

pull1D
Entries 101
Mean 0.0001332
Std Dev 1.003
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

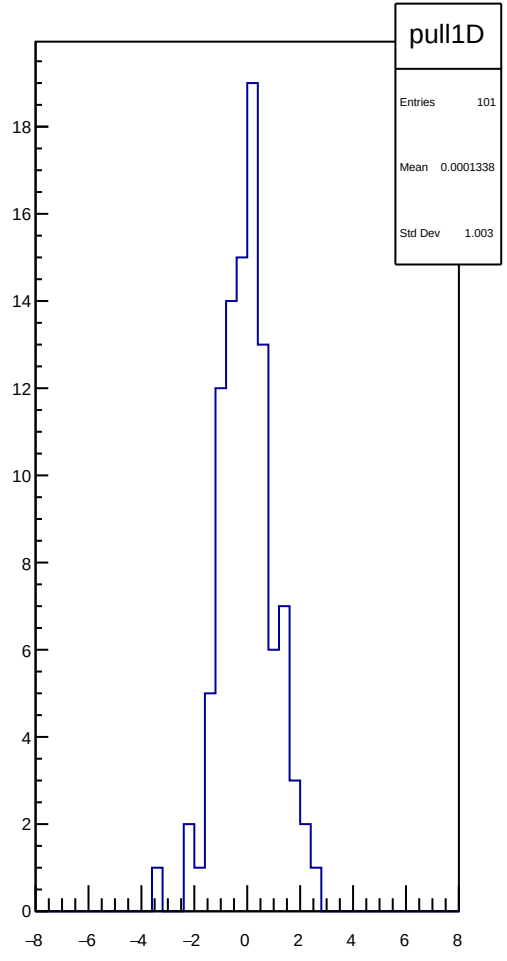

reg_asym_sam8_rms vs run
χ^2 / ndf 3311 / 100
p0 69.01 ± 0.04975
84
82
80
78
76
74
72
70
68
66
64

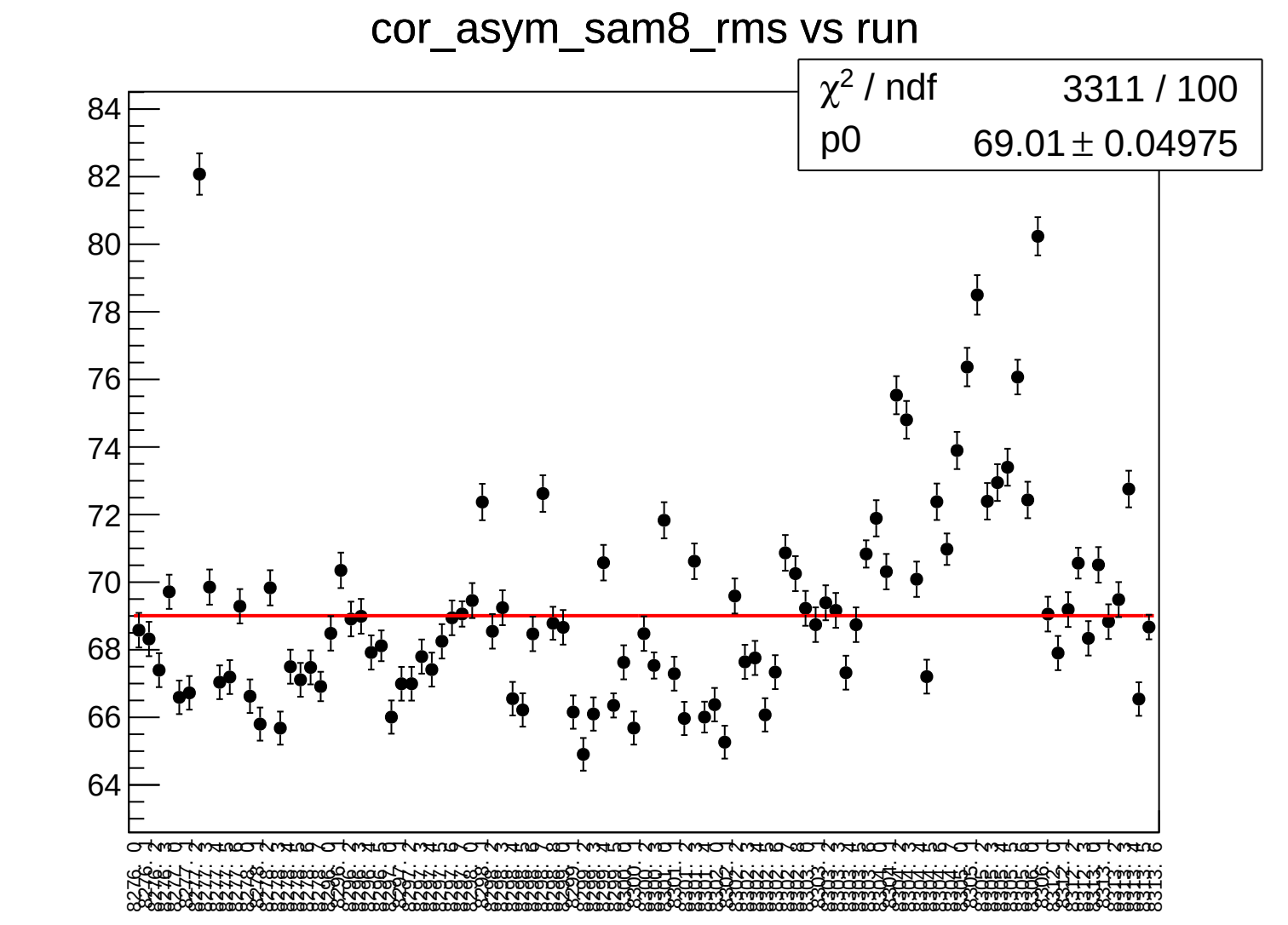

asym_sam8_reg_correction_mean vs run
χ² / ndf 104.4 / 100
p0 −18.94 ± 414
pull
Entries 101
Mean −477.6
Std Dev 0

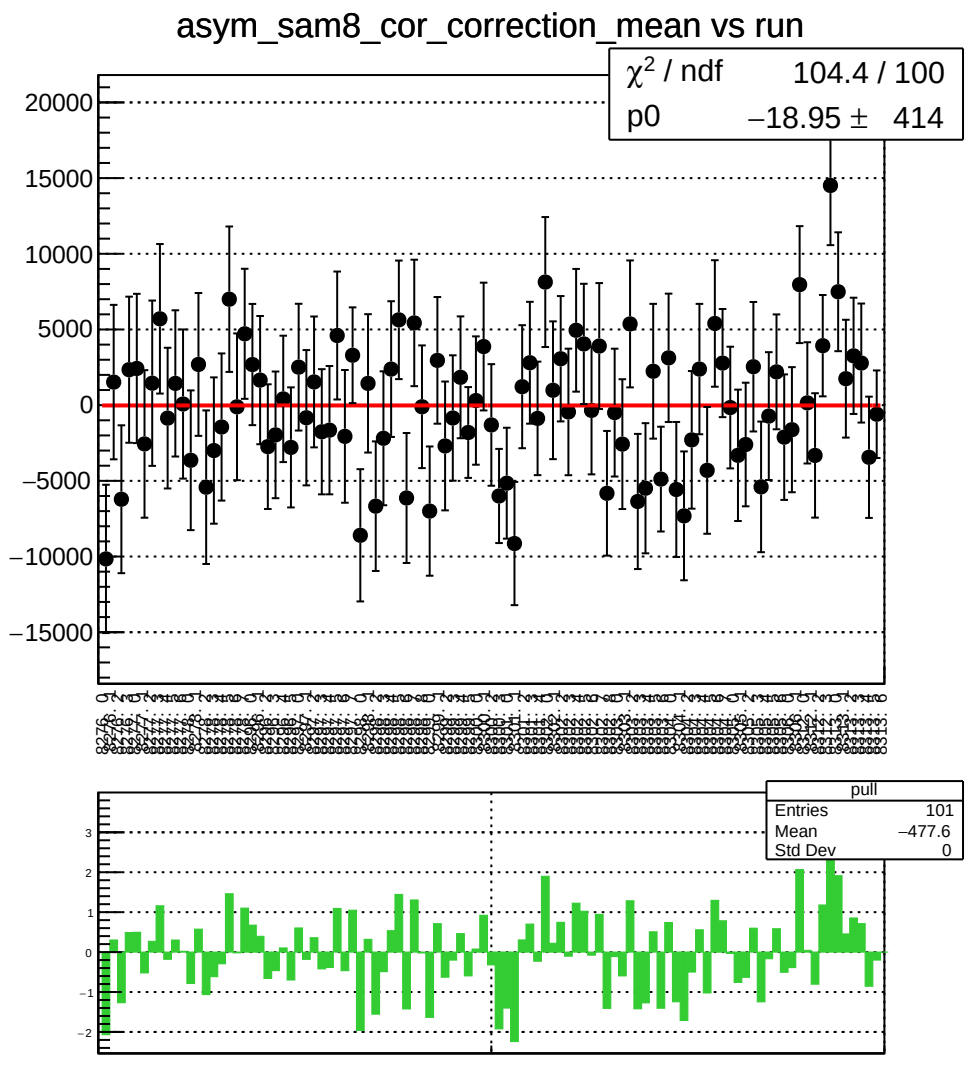

pull1D
Entries 101
Mean −0.006333
Std Dev 1.017

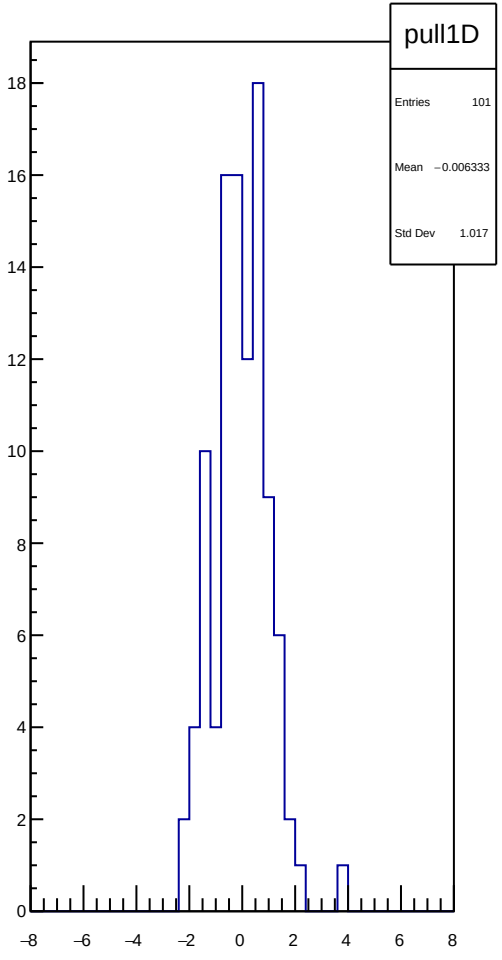

asym_sam8_reg_correction_rms vs run
χ² / ndf 9957 / 100
p0 405.4 ± 0.2928
520
500
480
460
440
420
400
380
360
340

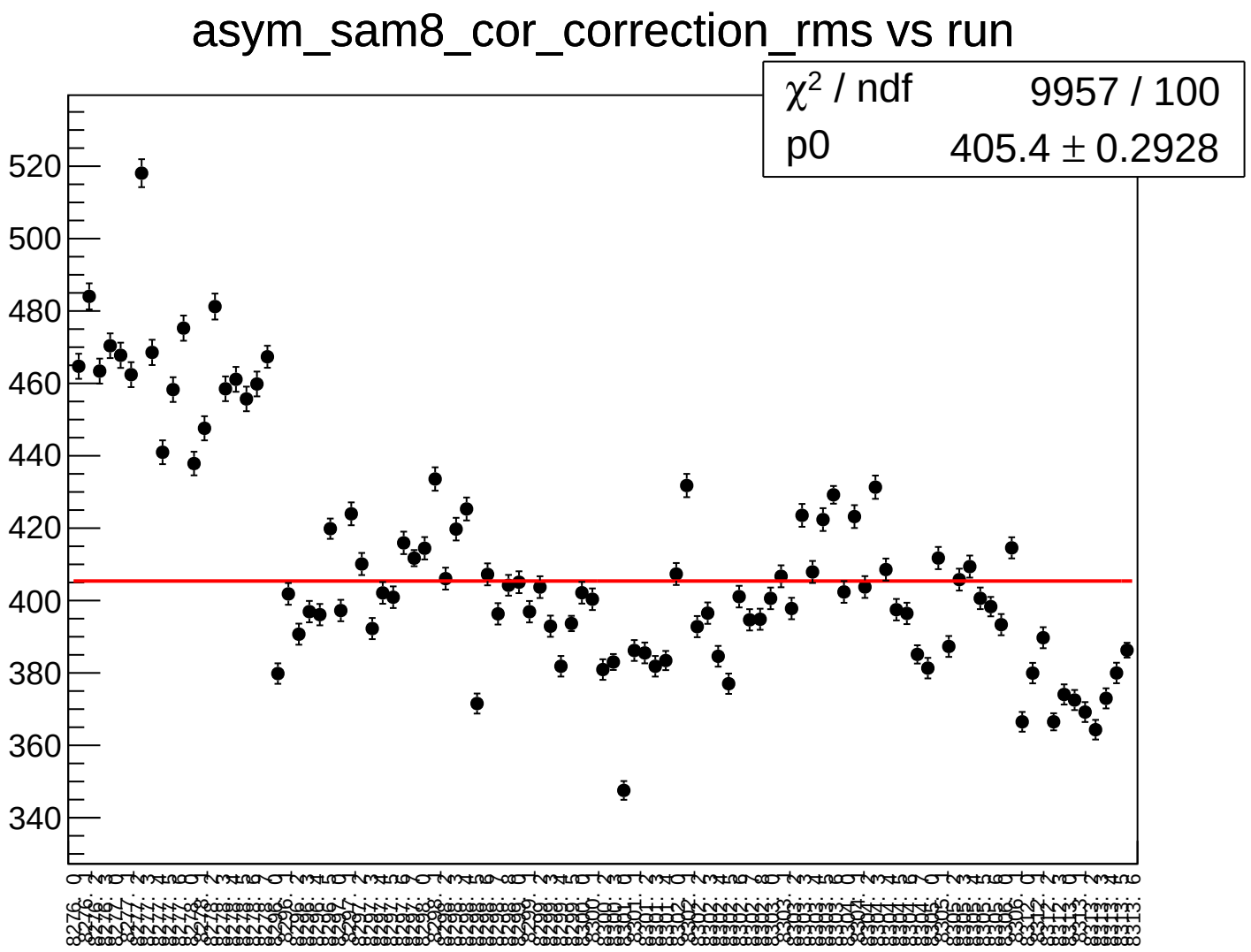

cor_asym_sam8_mean vs run
χ² / ndf 101.6 / 100
p0 −94.27 ± 70.36
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 101
Mean −1.968e+04
Std Dev 0
2
1
0
−1
−2
−3

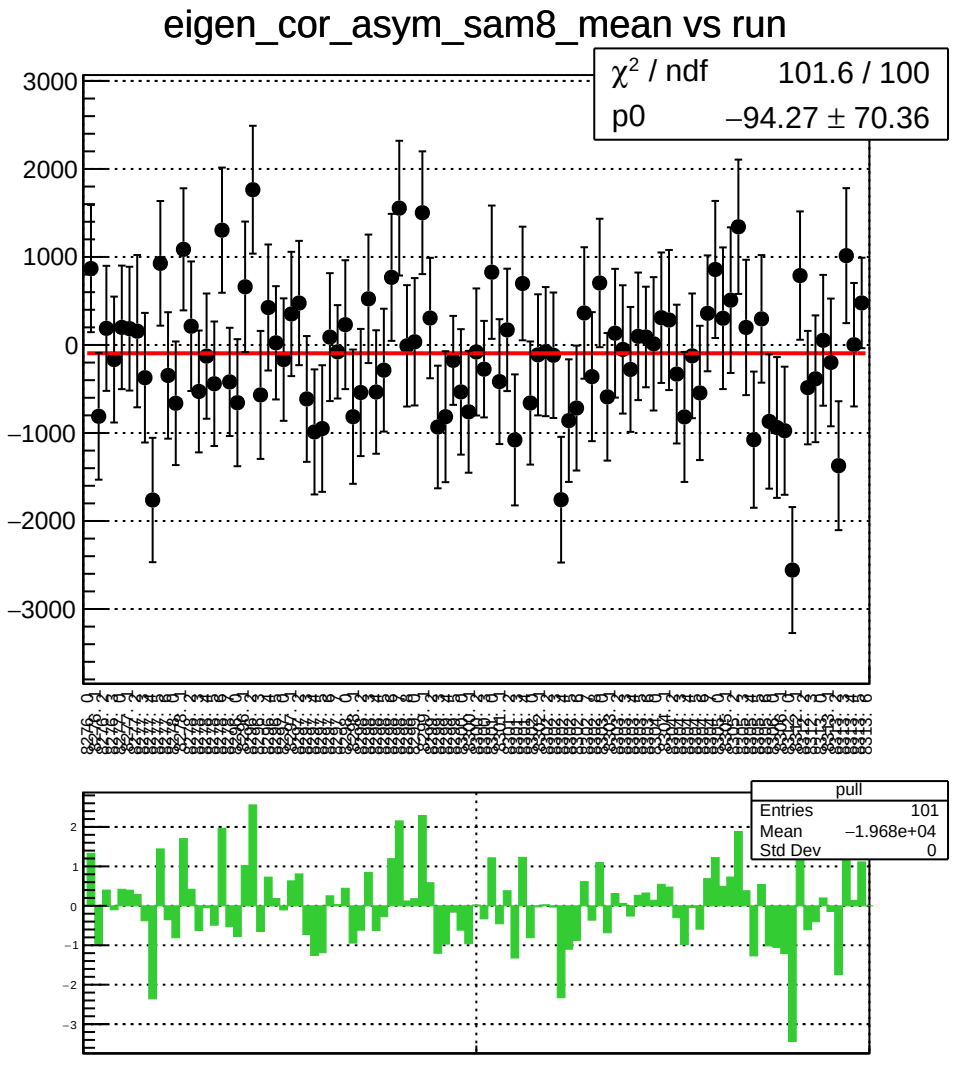

pull1D
Entries 101
Mean 0.0001338
Std Dev 1.003
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

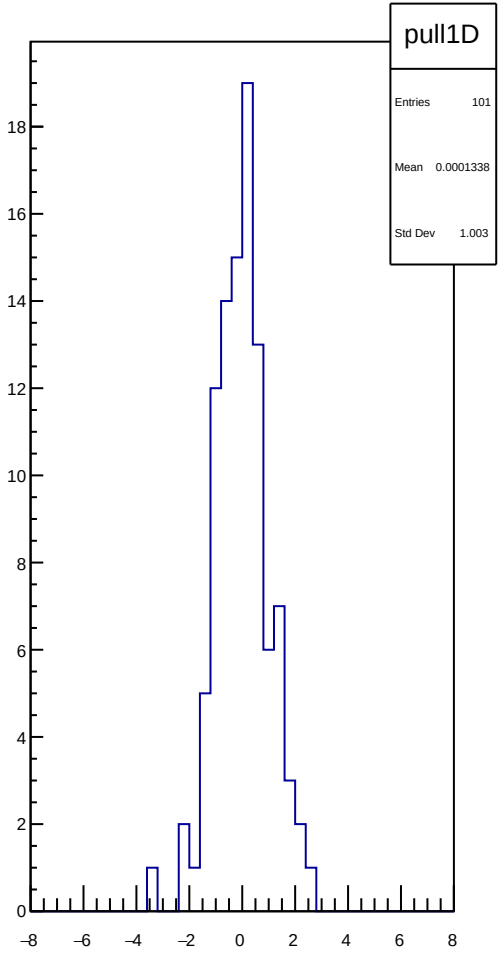

cor_asym_sam8_rms vs run
χ^2 / ndf 3311 / 100
p0 69.01 ± 0.04975
84
82
80
78
76
74
72
70
68
66
64

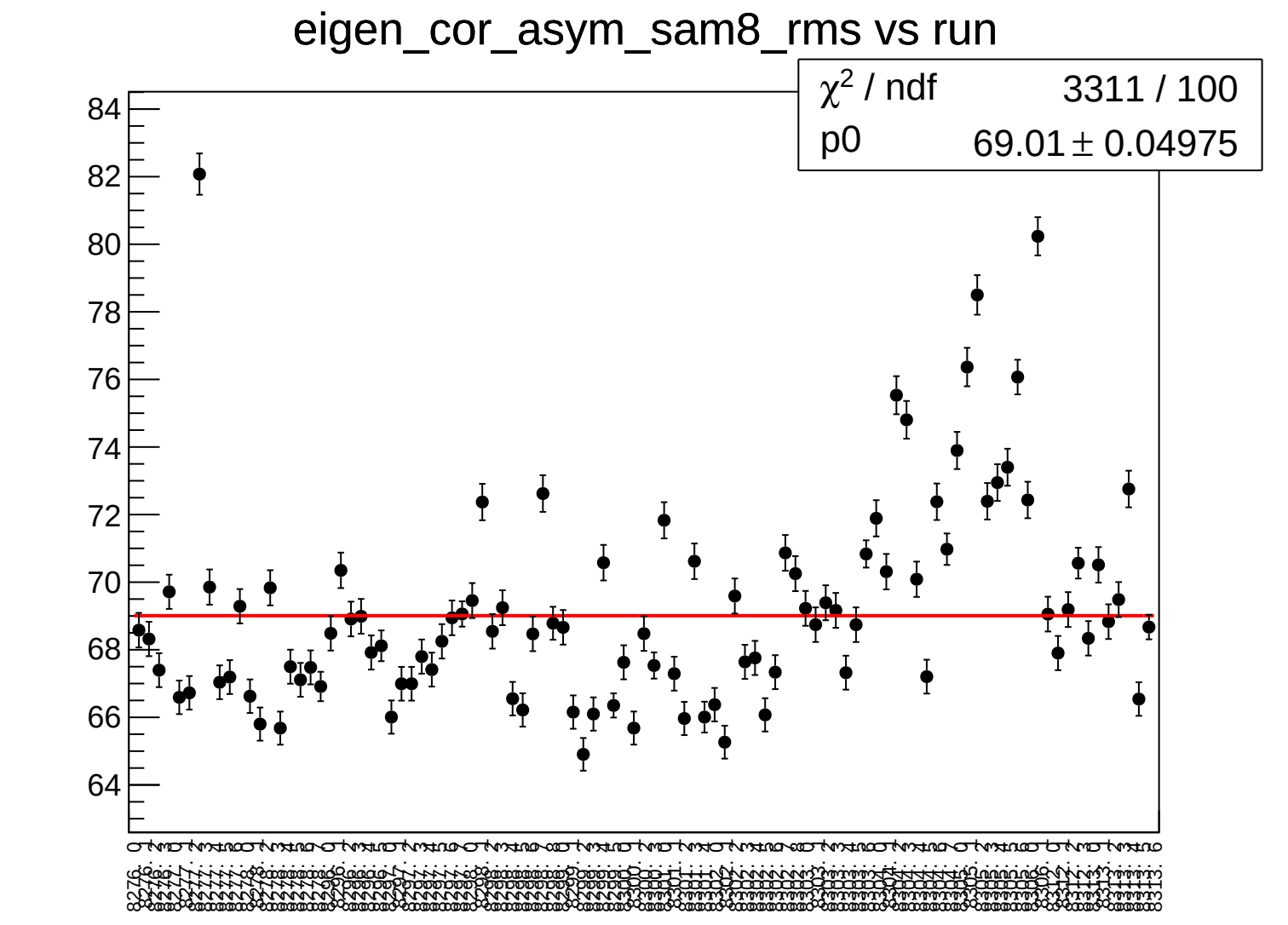

asym_sam8_cor_correction_mean vs run
χ² / ndf 104.4 / 100
p0 −18.95 ± 414
pull
Entries 101
Mean −477.6
Std Dev 0

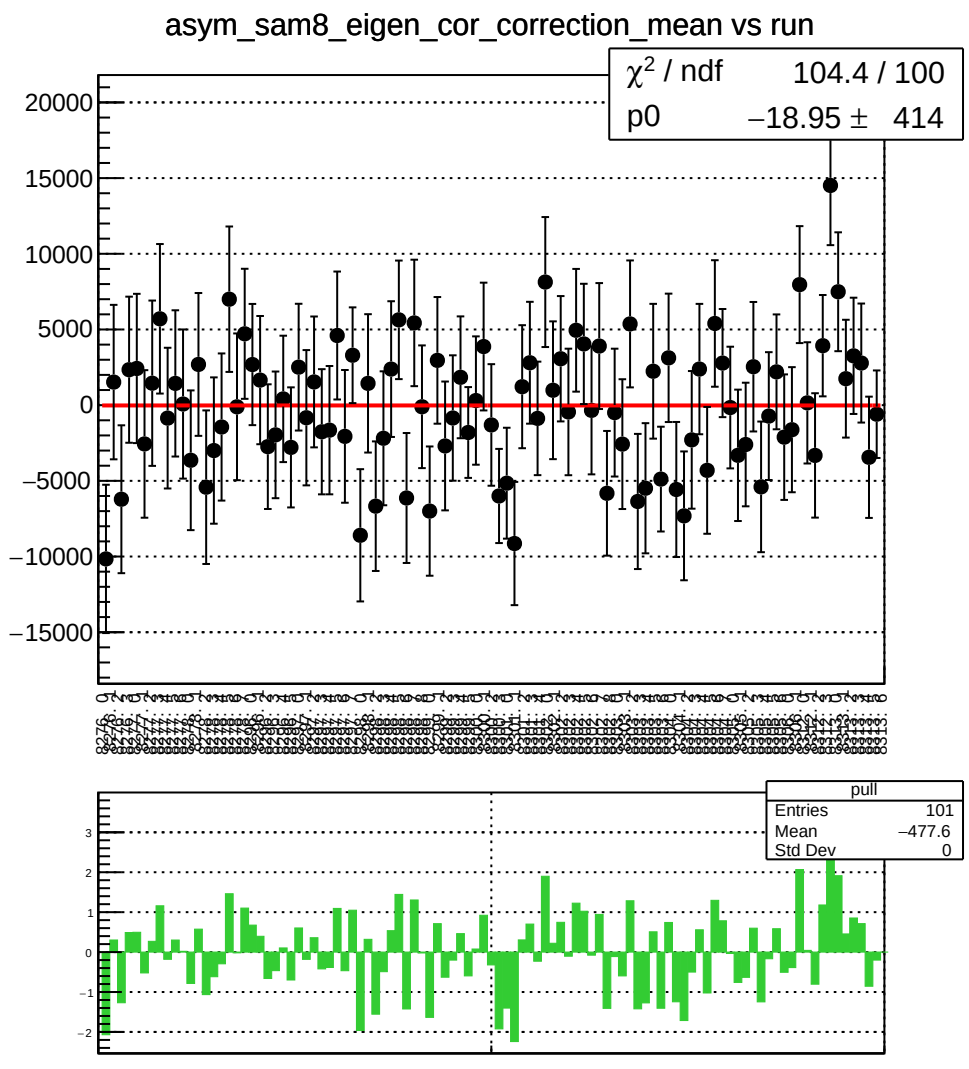

pull1D
Entries 101
Mean −0.006333
Std Dev 1.017

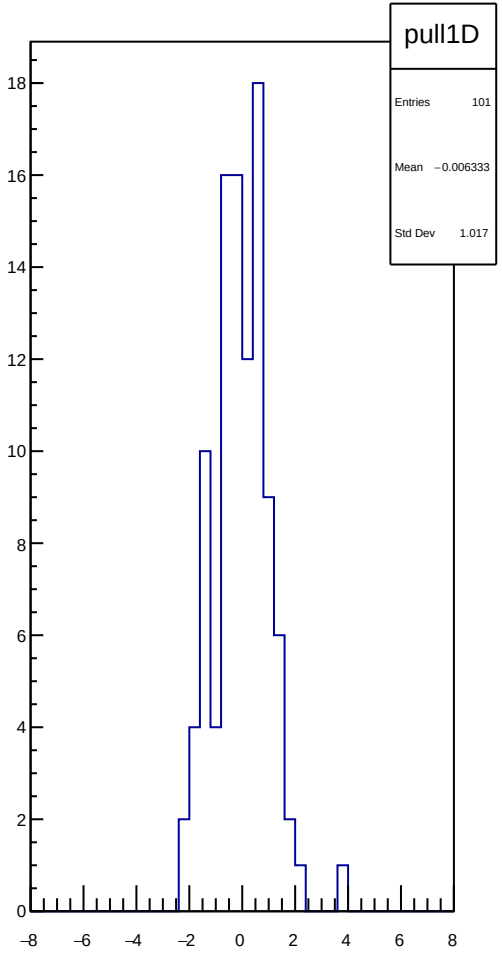

asym_sam8_cor_correction_rms vs run
χ² / ndf 9957 / 100
p0 405.4 ± 0.2928
520
500
480
460
440
420
400
380
360
340

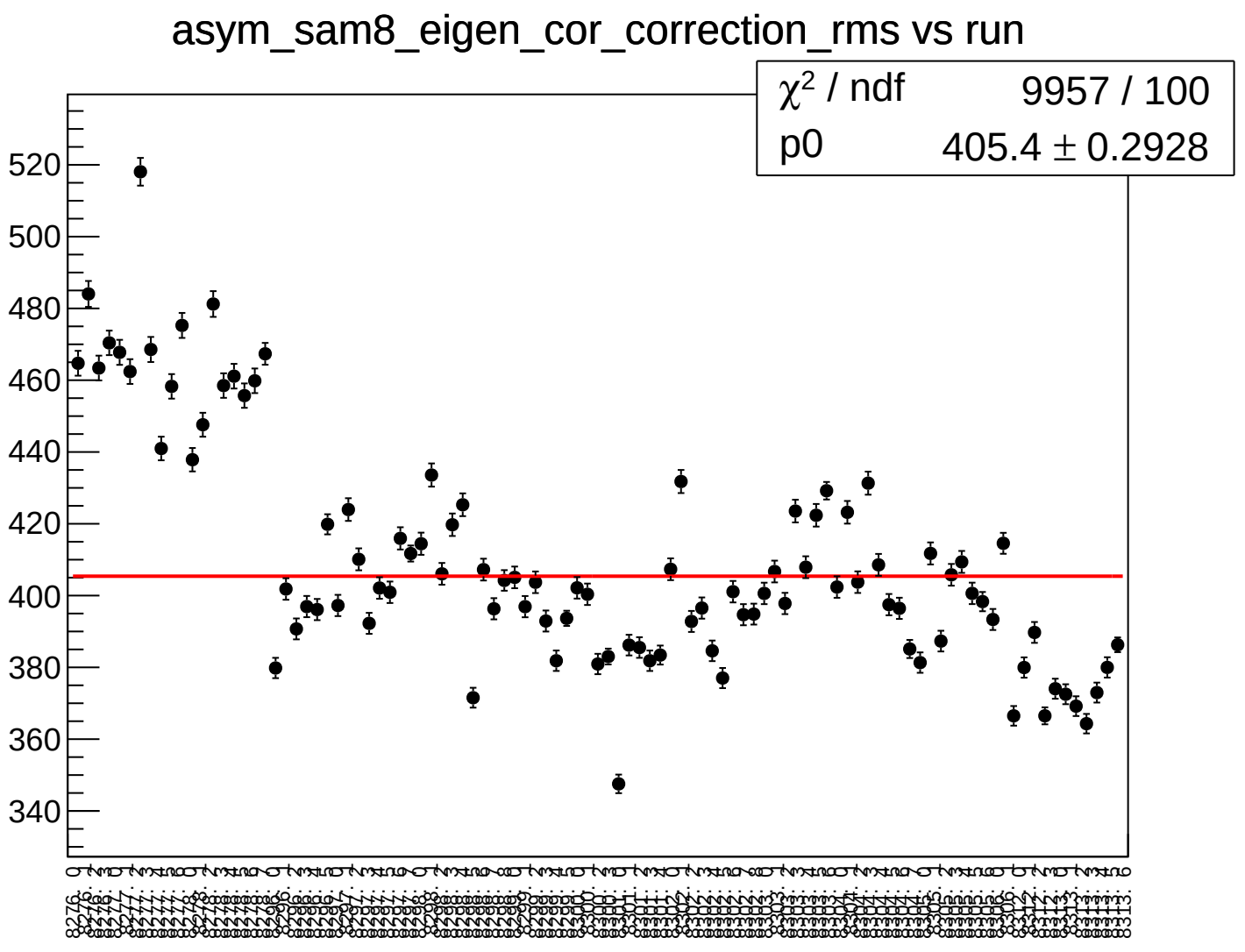

eigen_cor_asym_sam8_mean vs run
χ² / ndf 101.6 / 100
p0 −94.27 ± 70.36
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 101
Mean −1.968e+04
Std Dev 0
2
1
0
−1
−2
−3

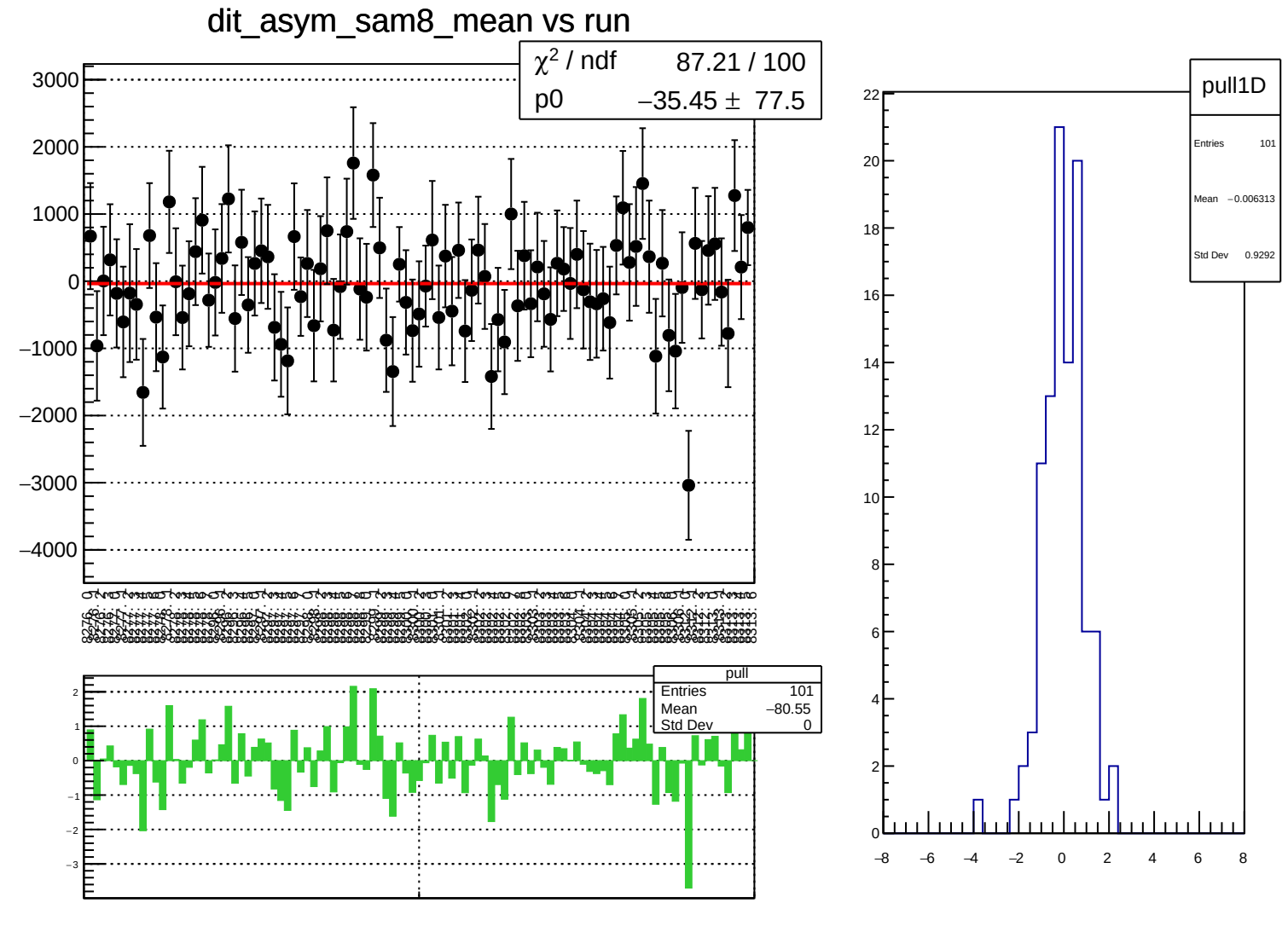

pull1D
Entries 101
Mean 0.0001338
Std Dev 1.003
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

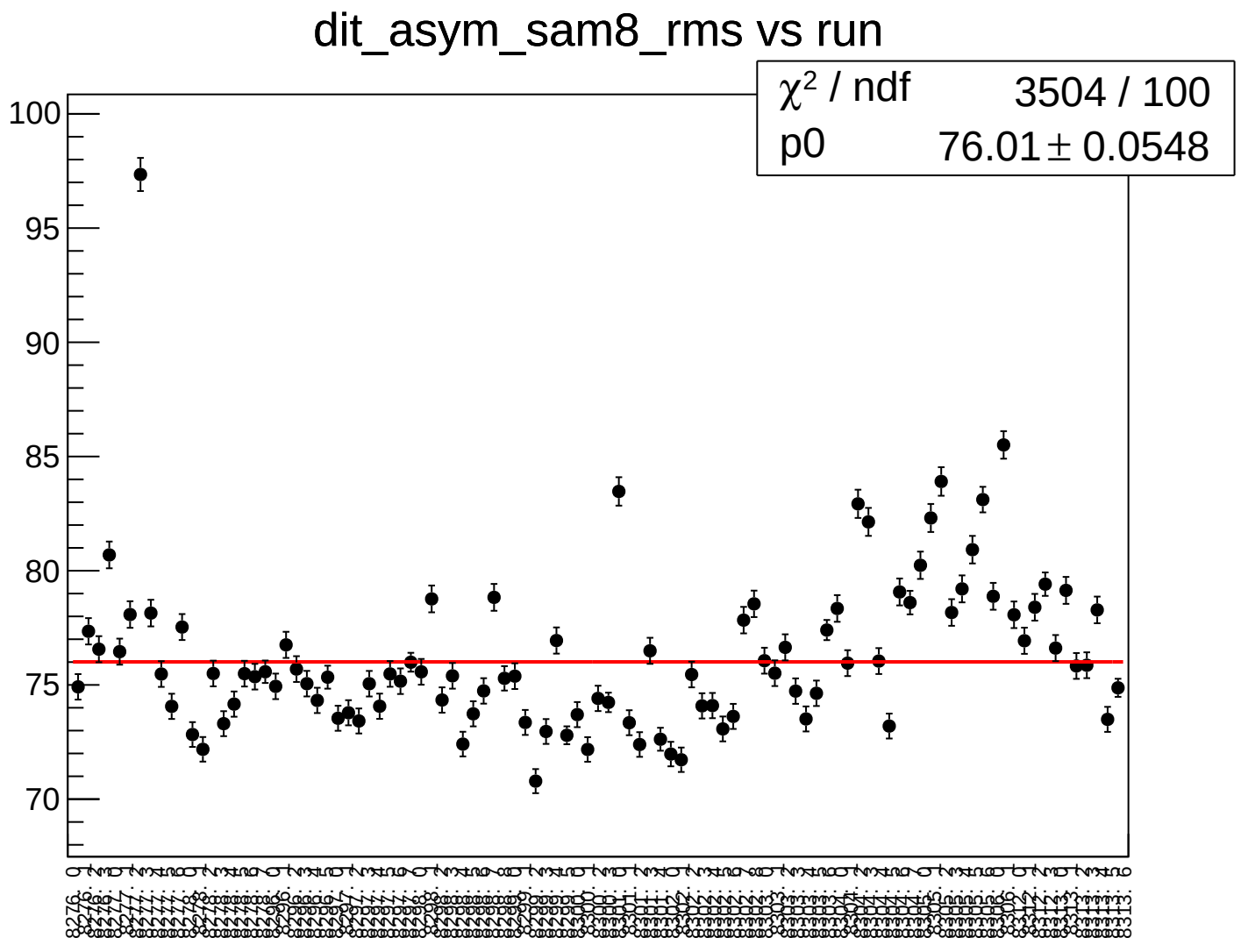

eigen_cor_asym_sam8_rms vs run
χ^2 / ndf 3311 / 100
p0 69.01 ± 0.04975
84
82
80
78
76
74
72
70
68
66
64

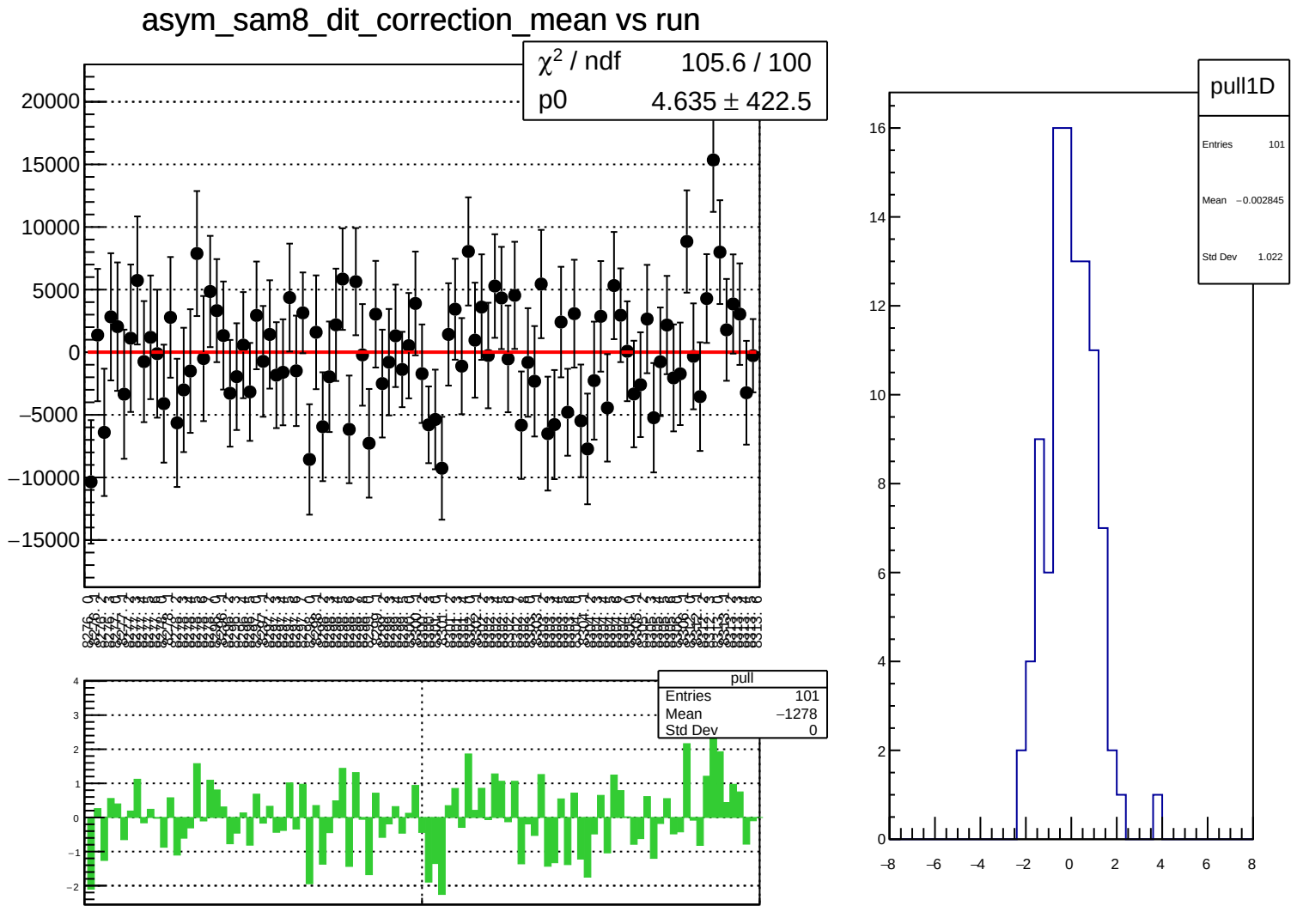

asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 104.4 / 100
p0 −18.95 ± 414
pull
Entries 101
Mean −477.6
Std Dev 0

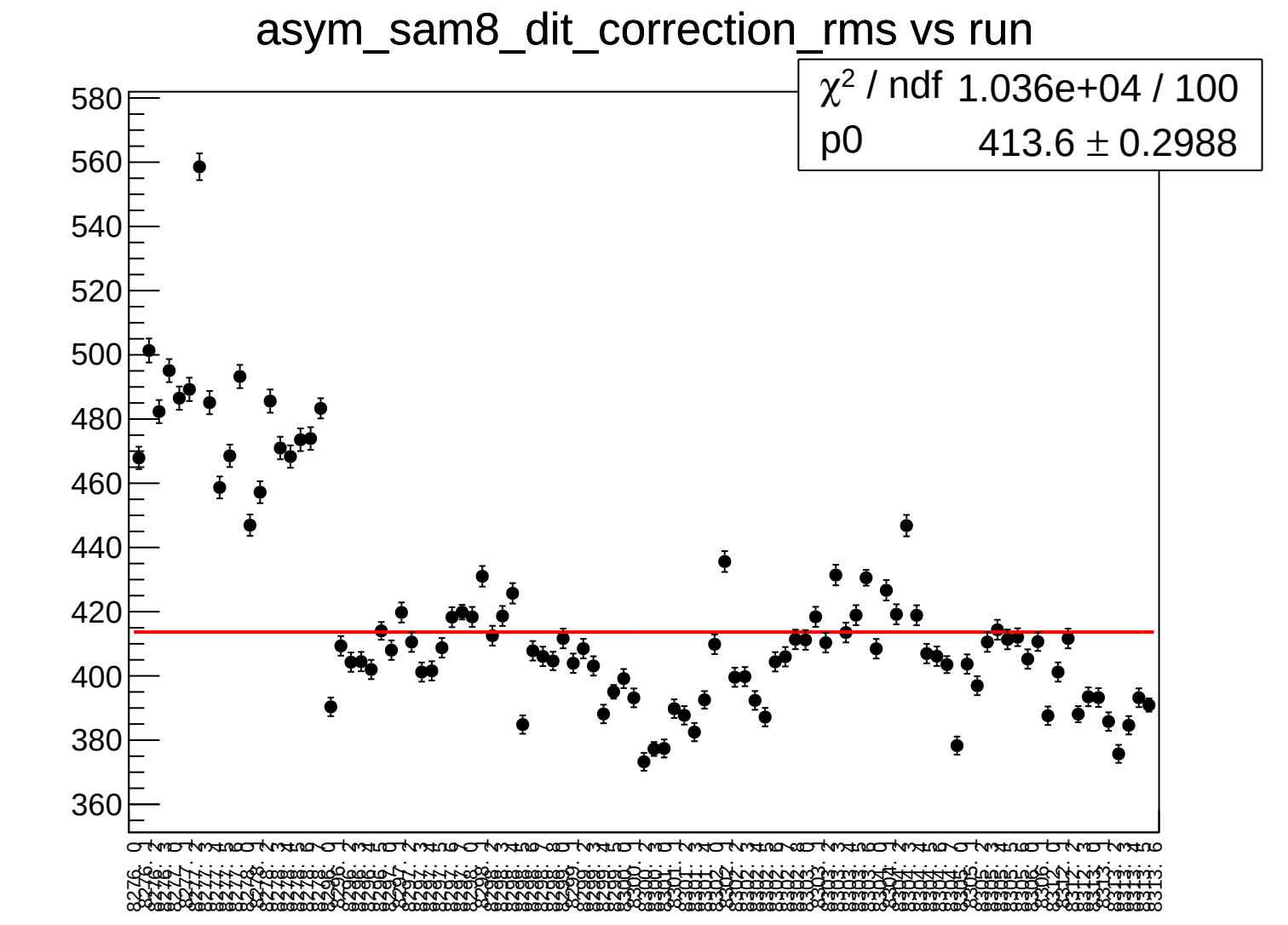

pull1D
Entries 101
Mean −0.006333
Std Dev 1.017

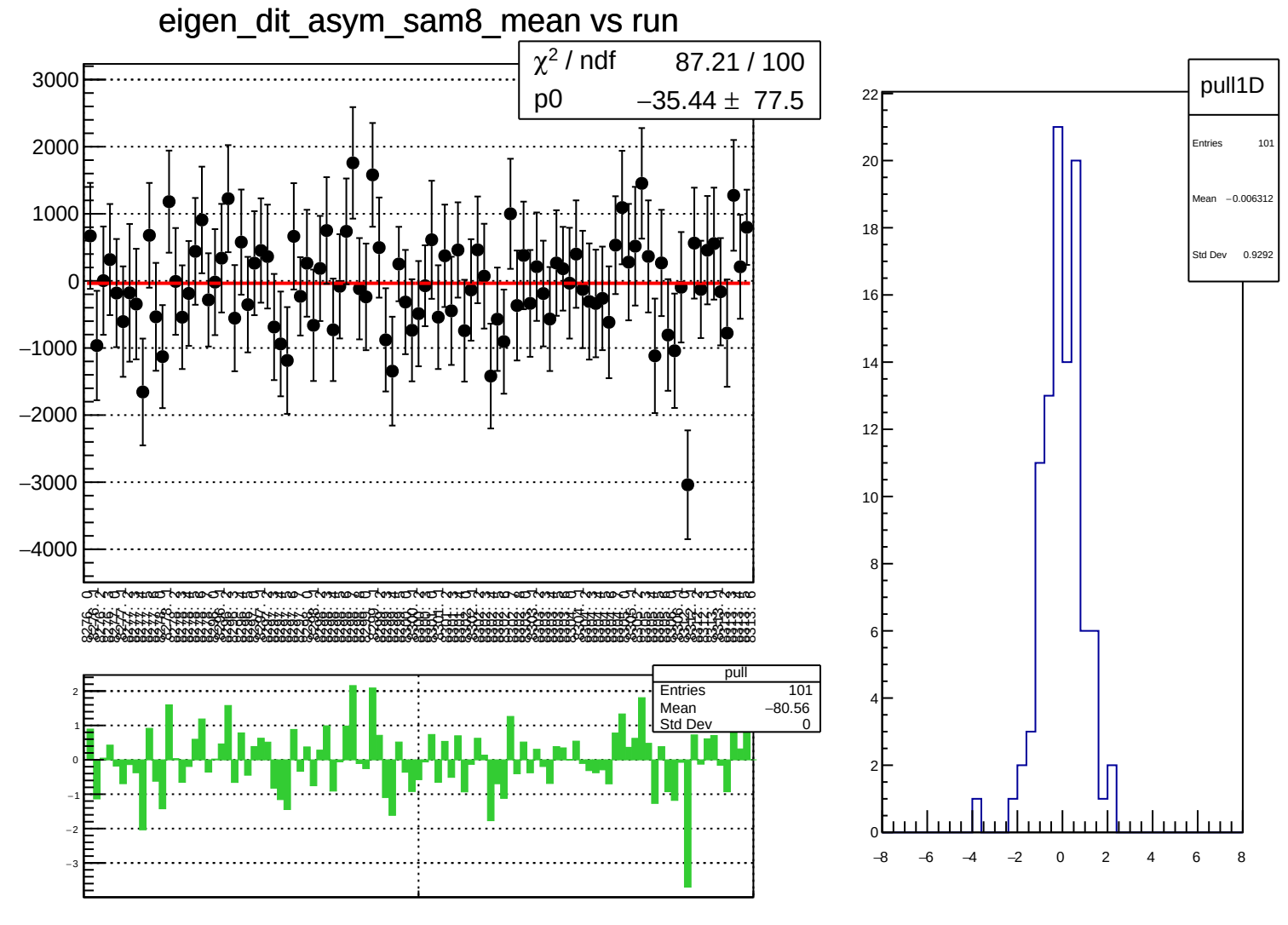

asym_sam8_eigen_cor_correction_rms vs run
χ² / ndf 9957 / 100
p0 405.4 ± 0.2928
520
500
480
460
440
420
400
380
360
340

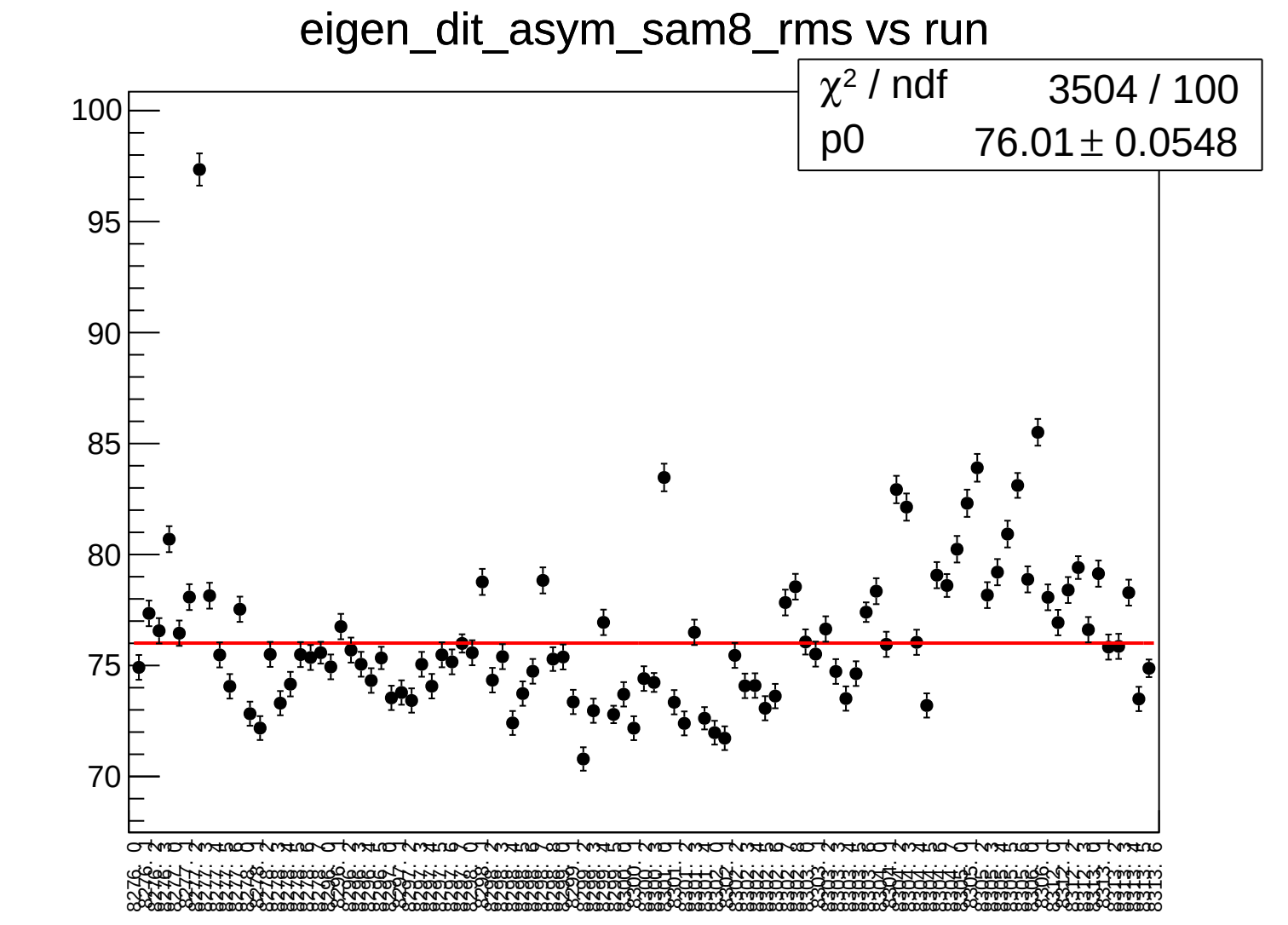

dit_asym_sam8_mean vs run
χ² / ndf 87.21 / 100
p0 −35.45 ± 77.5
pull
Entries 101
Mean −80.55
Std Dev 0
pull1D
Entries 101
Mean −0.006313
Std Dev 0.9292

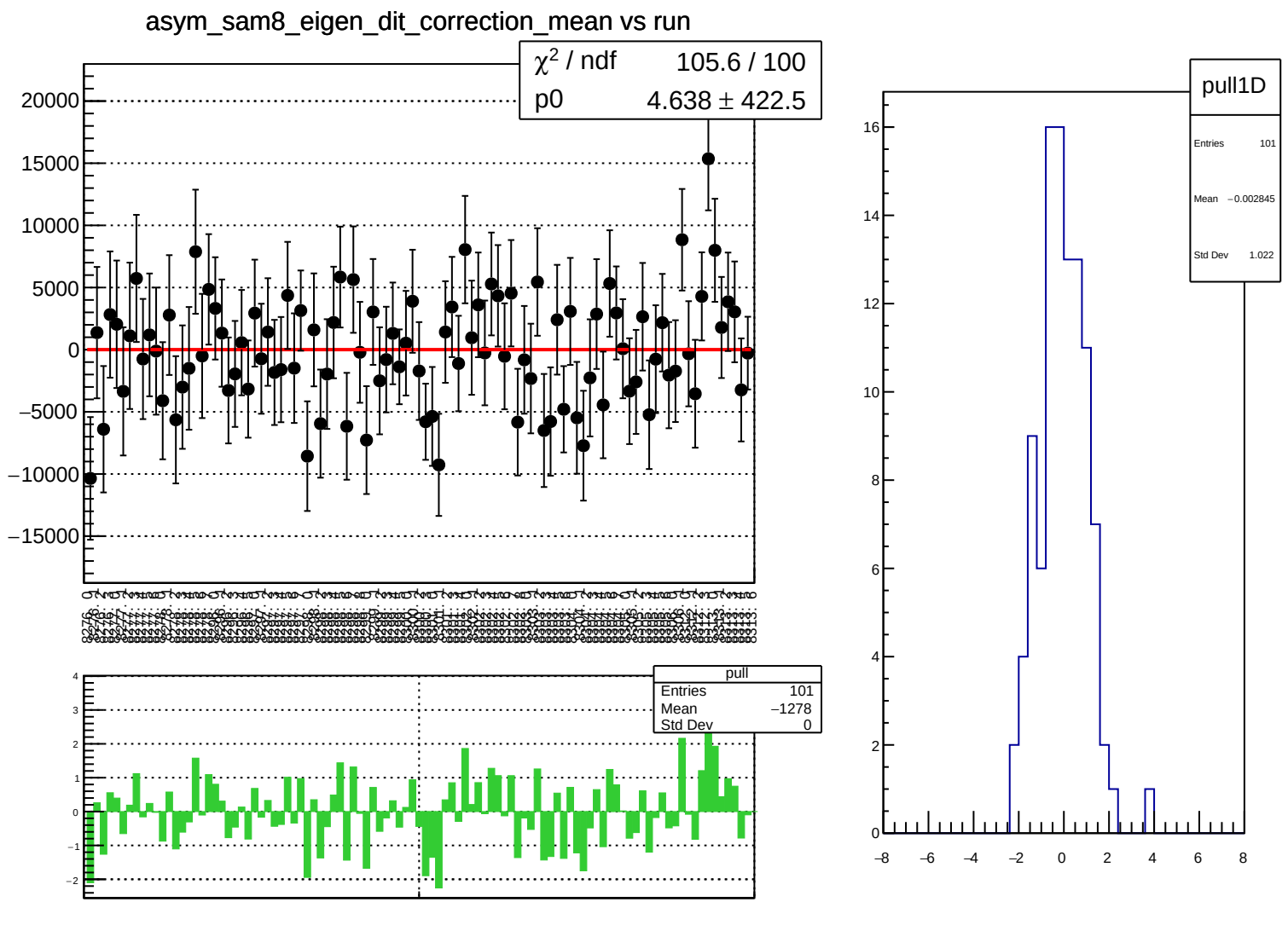

dit_asym_sam8_rms vs run
χ² / ndf 3504 / 100
p0 76.01 ± 0.0548
100
95
90
85
80
75
70

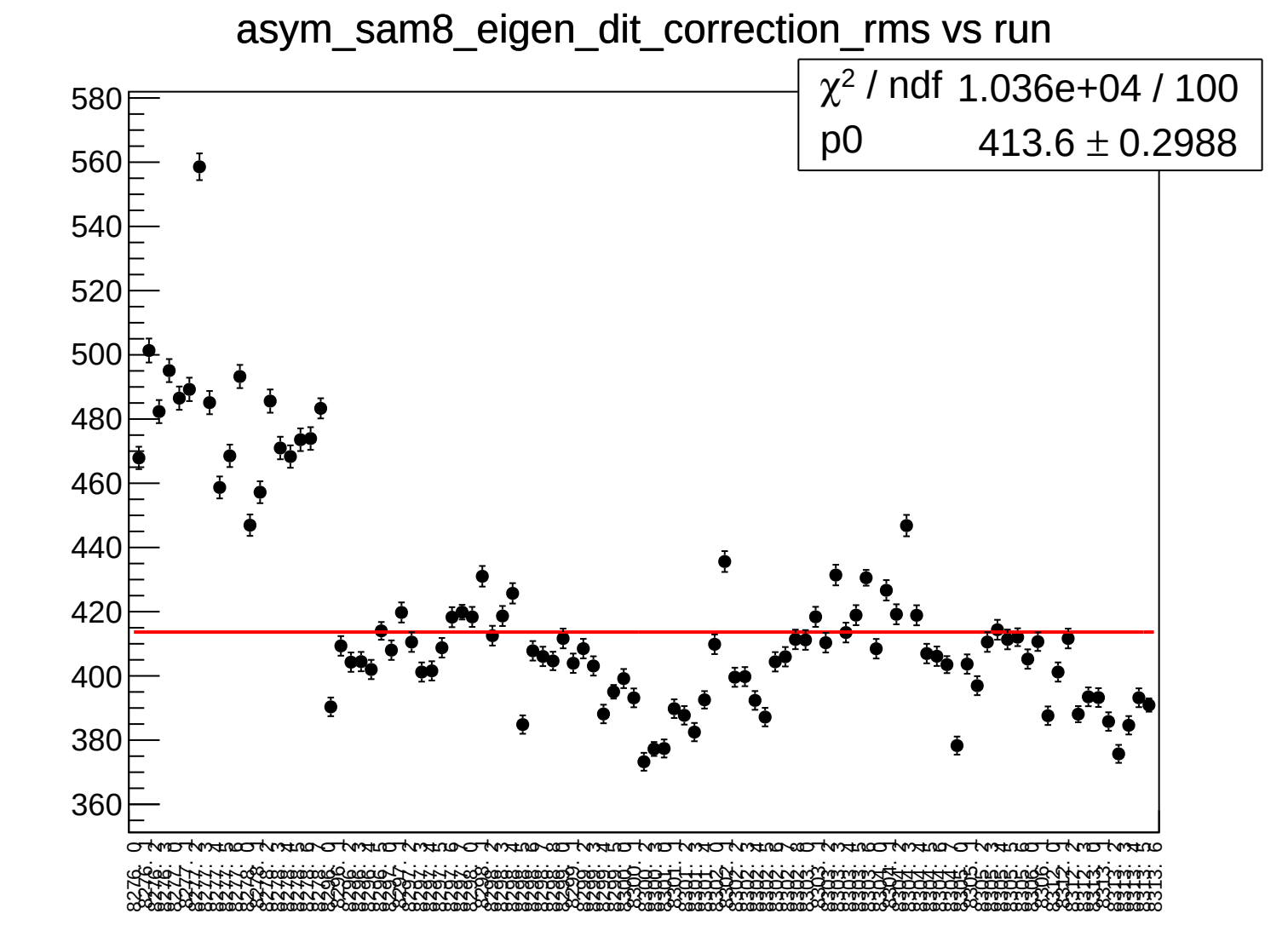

asym_sam8_dit_correction_mean vs run
χ² / ndf 105.6 / 100
p0 4.635 ± 422.5
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 101
Mean −1278
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.002845
Std Dev 1.022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

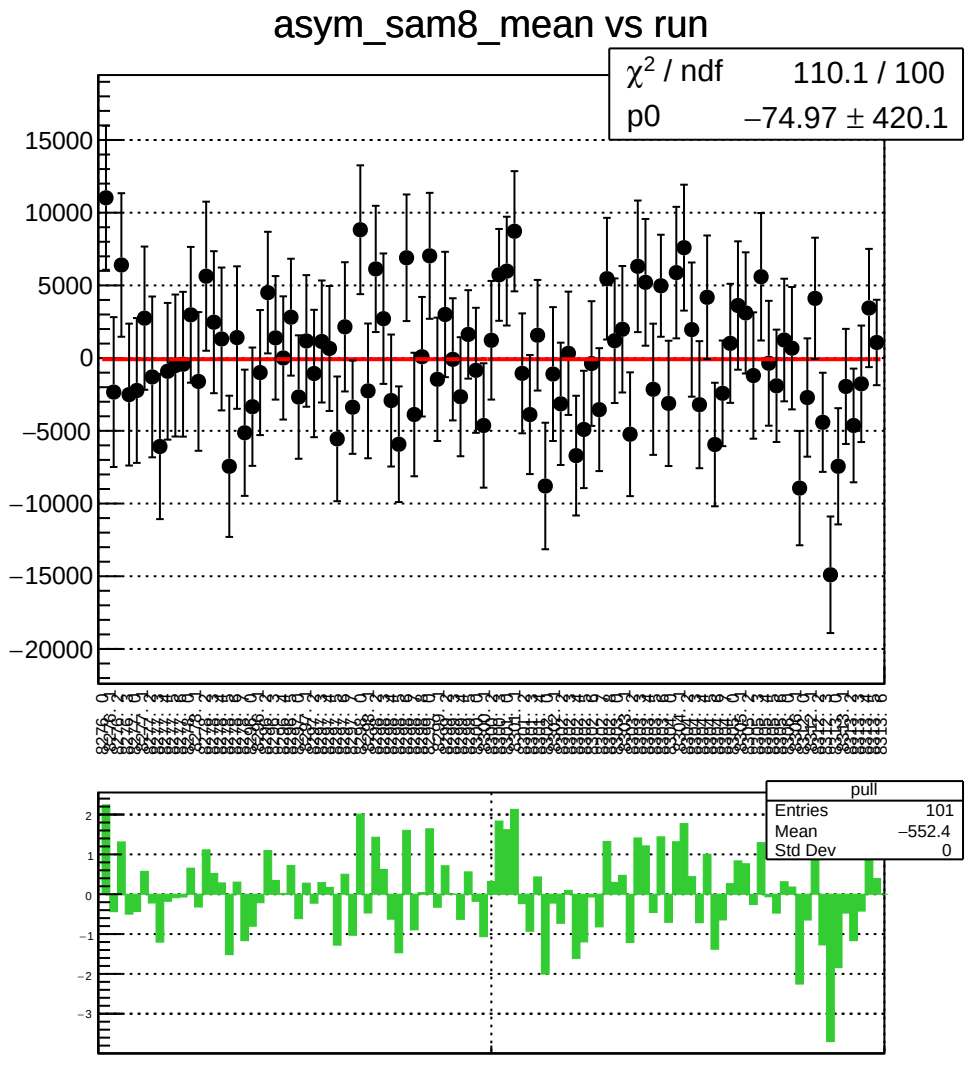

asym_sam8_dit_correction_rms vs run
χ^2 / ndf 1.036e+04 / 100
p0 413.6 ± 0.2988
580
560
540
520
500
480
460
440
420
400
380
360

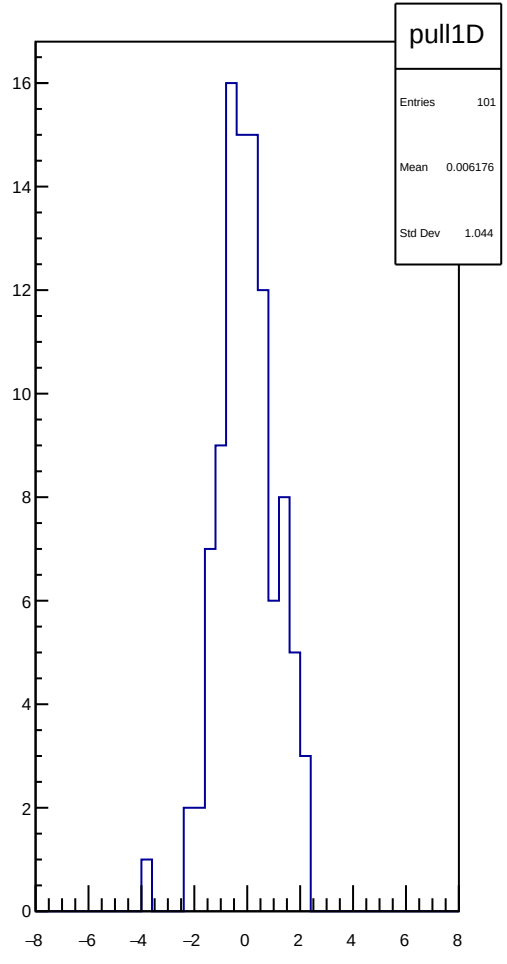

eigen_dit_asym_sam8_mean vs run
χ² / ndf 87.21 / 100
p0 −35.44 ± 77.5
pull
Entries 101
Mean −80.56
Std Dev 0
pull1D
Entries 101
Mean −0.006312
Std Dev 0.9292

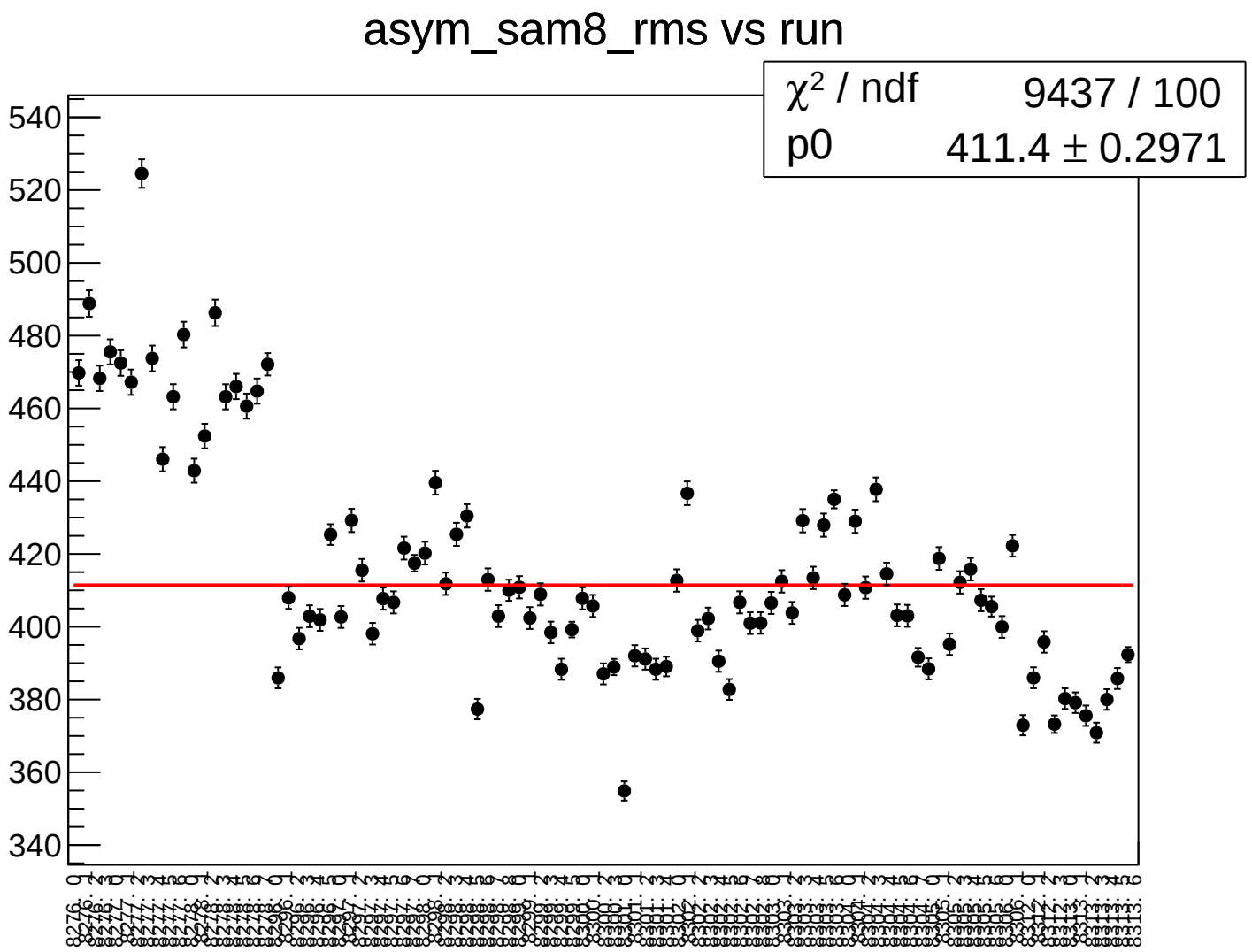

eigen_dit_asym_sam8_rms vs run
χ² / ndf 3504 / 100
p0 76.01 ± 0.0548
100
95
90
85
80
75
70

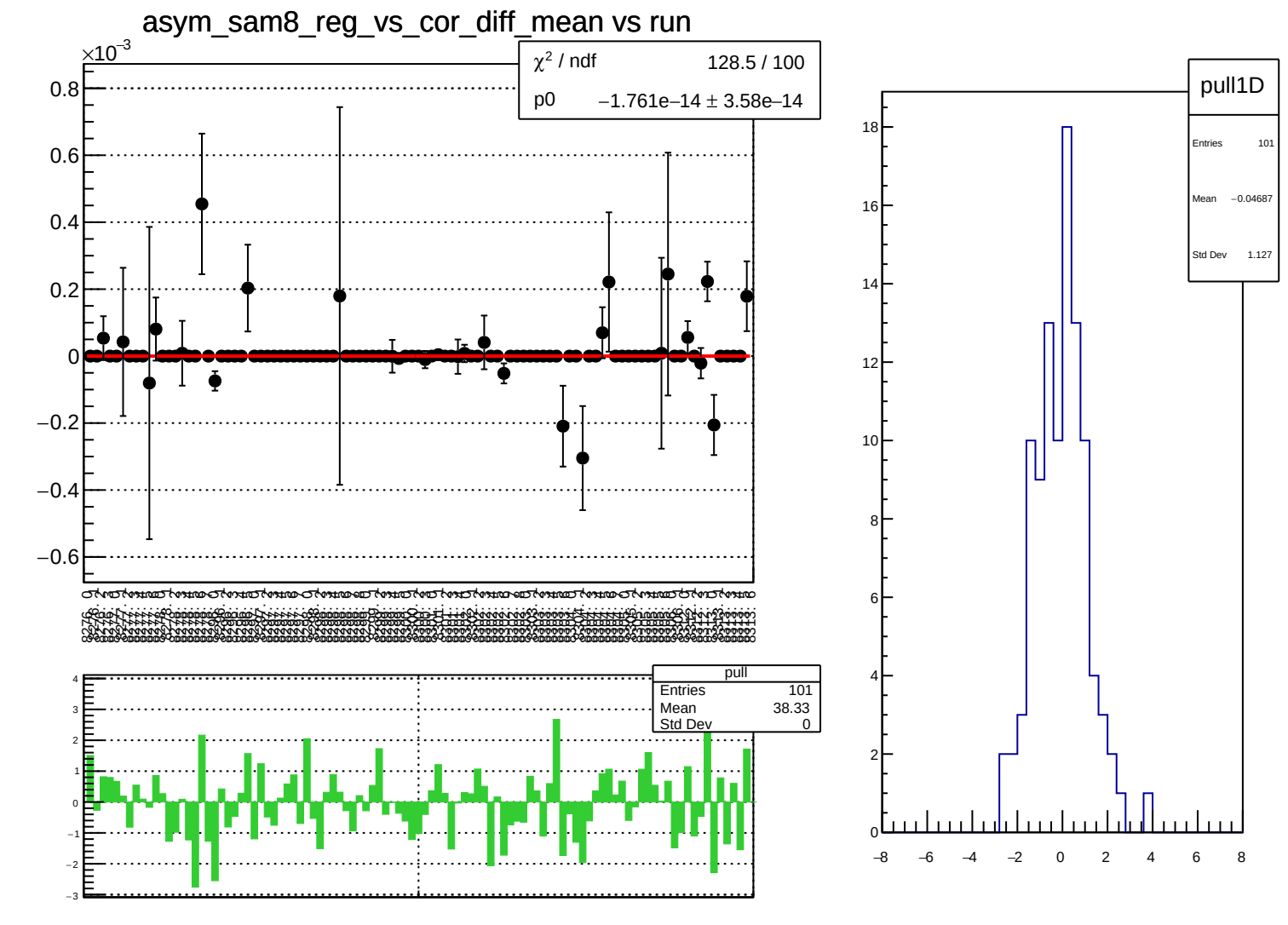

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 105.6 / 100
p0 4.638 ± 422.5
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 101
Mean −1278
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.002845
Std Dev 1.022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

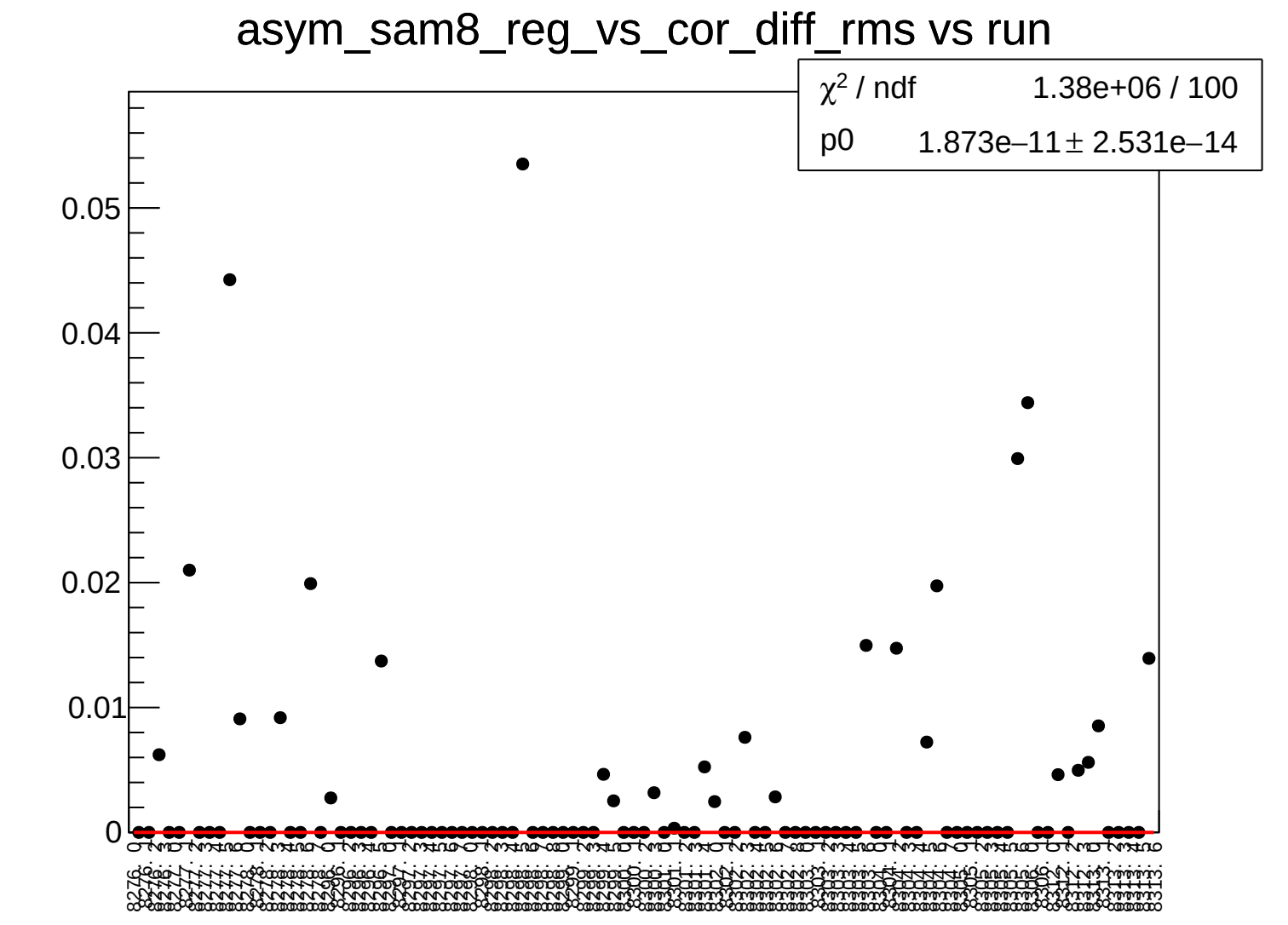

asym_sam8_eigen_dit_correction_rms vs run
χ² / ndf 1.036e+04 / 100
p0 413.6 ± 0.2988
580
560
540
520
500
480
460
440
420
400
380
360

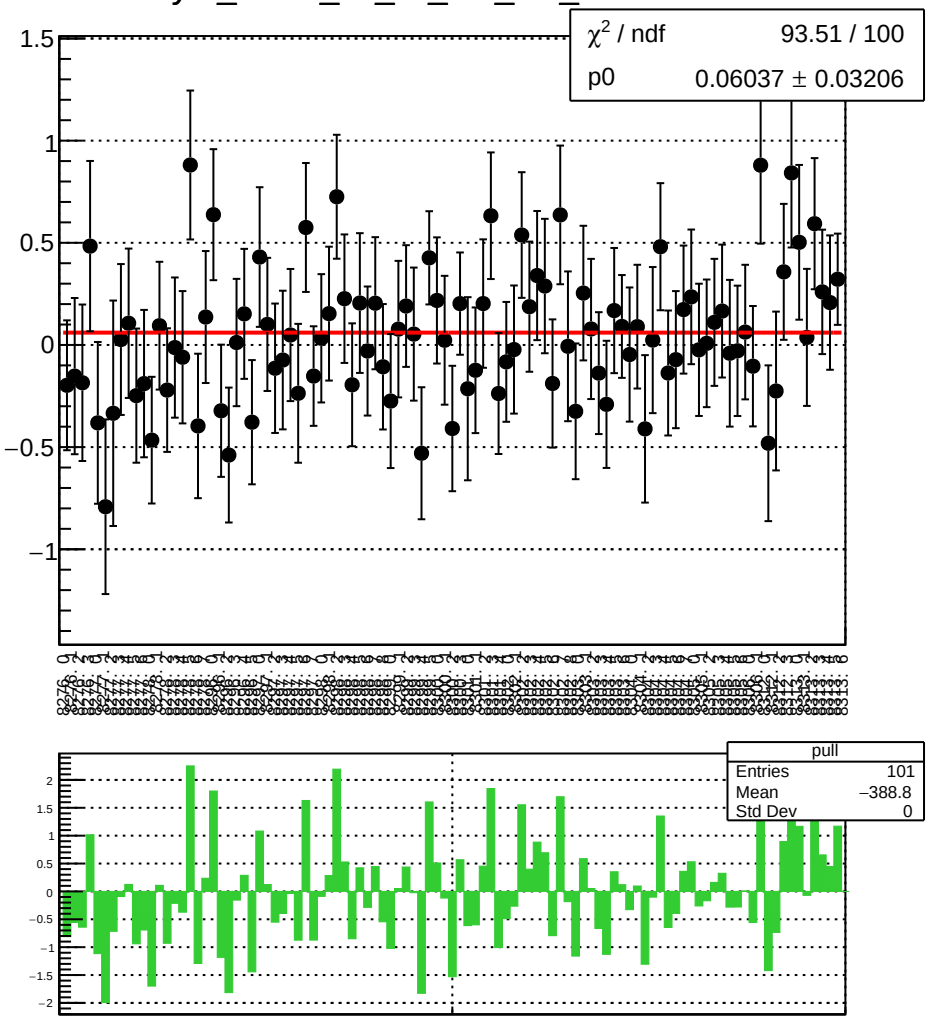

asym_sam8_mean vs run
χ² / ndf 110.1 / 100
p0 −74.97 ± 420.1
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 101
Mean −552.4
Std Dev 0
2
1
0
−1
−2
−3

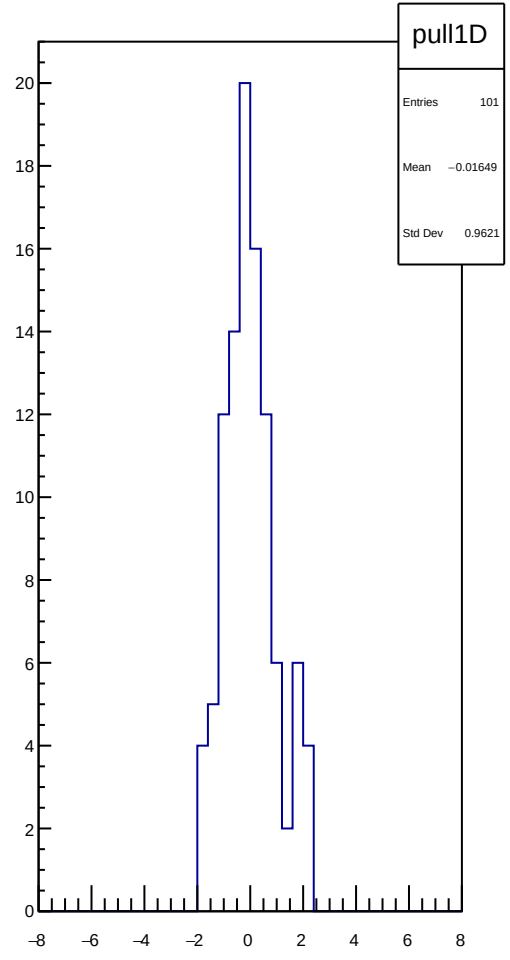

pull1D
Entries 101
Mean 0.006176
Std Dev 1.044
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

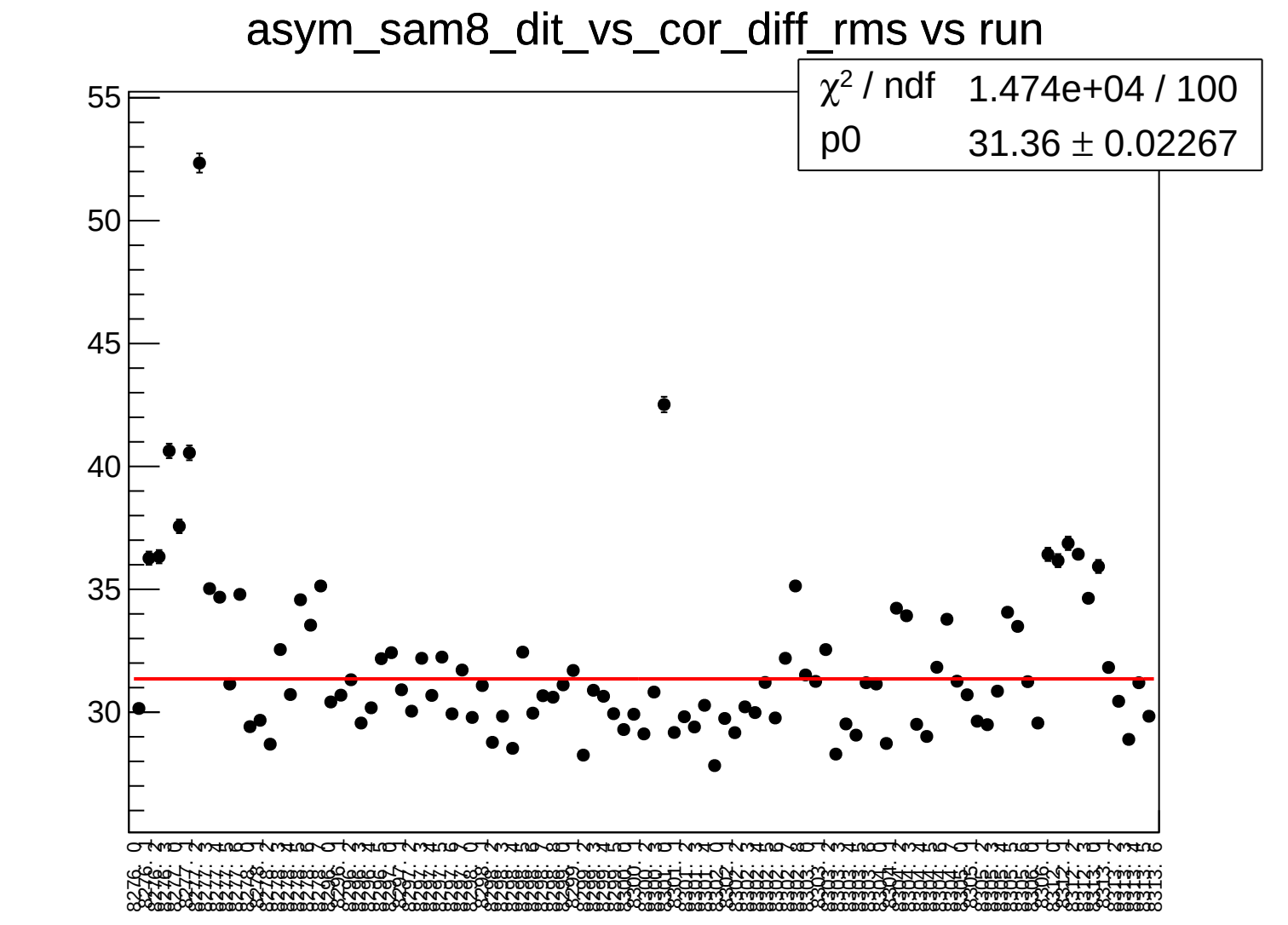

asym_sam8_rms vs run
χ² / ndf 9437 / 100
p0 411.4 ± 0.2971
540
520
500
480
460
440
420
400
380
360
340

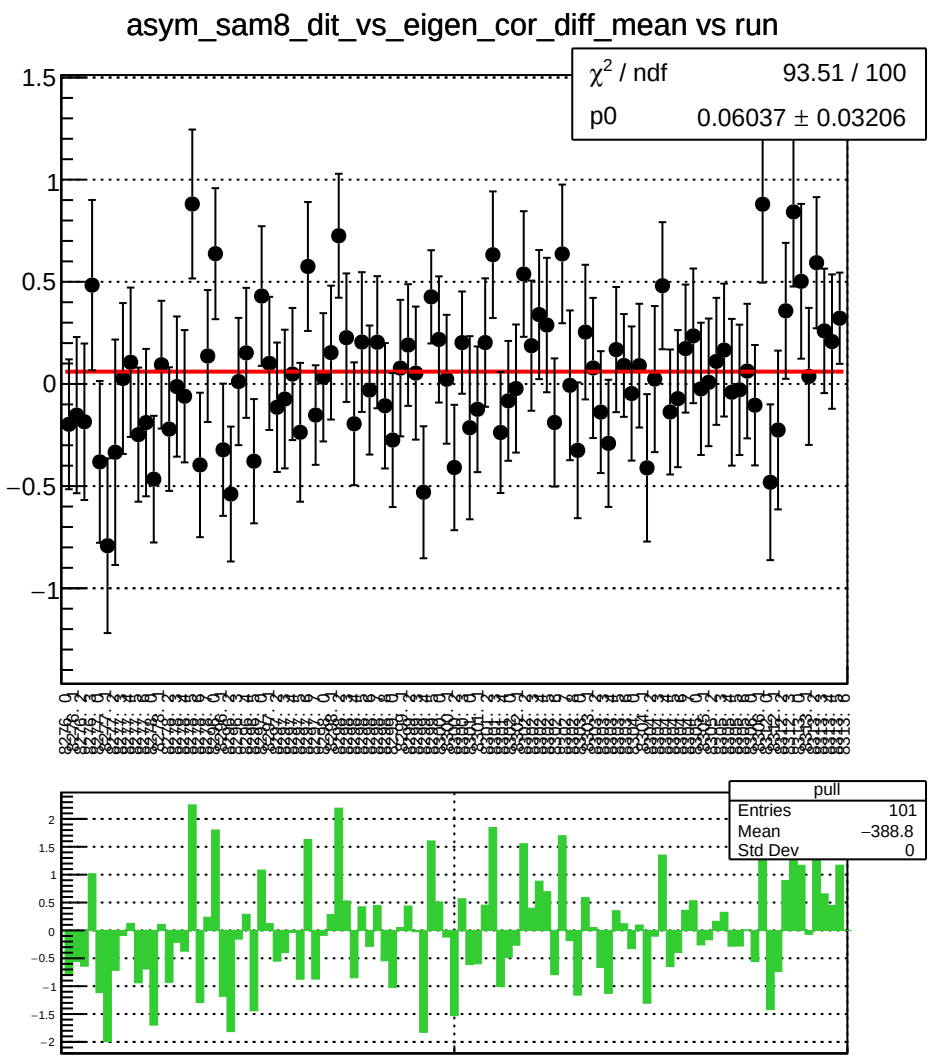

asym_sam8_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 128.5 / 100
p0 −1.761e−14 ± 3.58e−14
pull
Entries 101
Mean 38.33
Std Dev 0
pull1D
Entries 101
Mean −0.04687
Std Dev 1.127

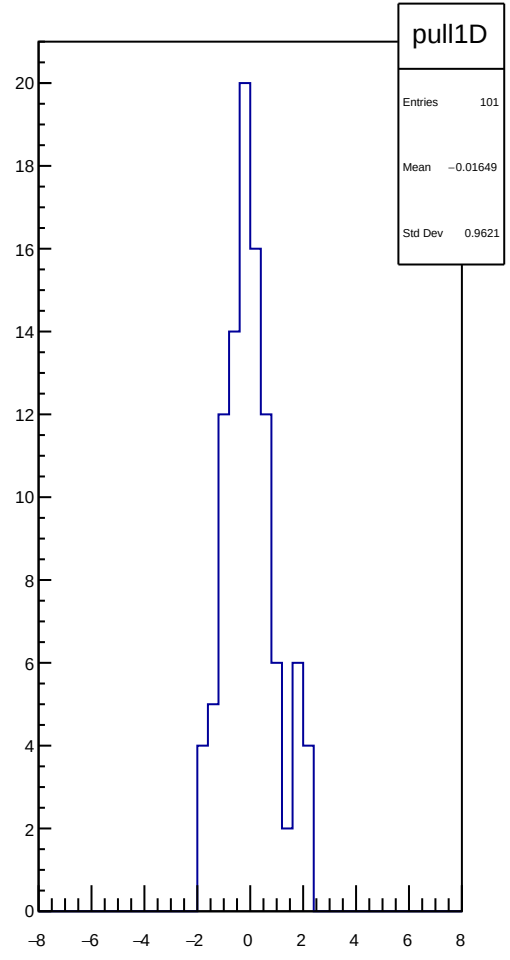

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 1.38e+06 / 100
p0 1.873e−11 ± 2.531e−14
0.05
0.04
0.03
0.02
0.01
0

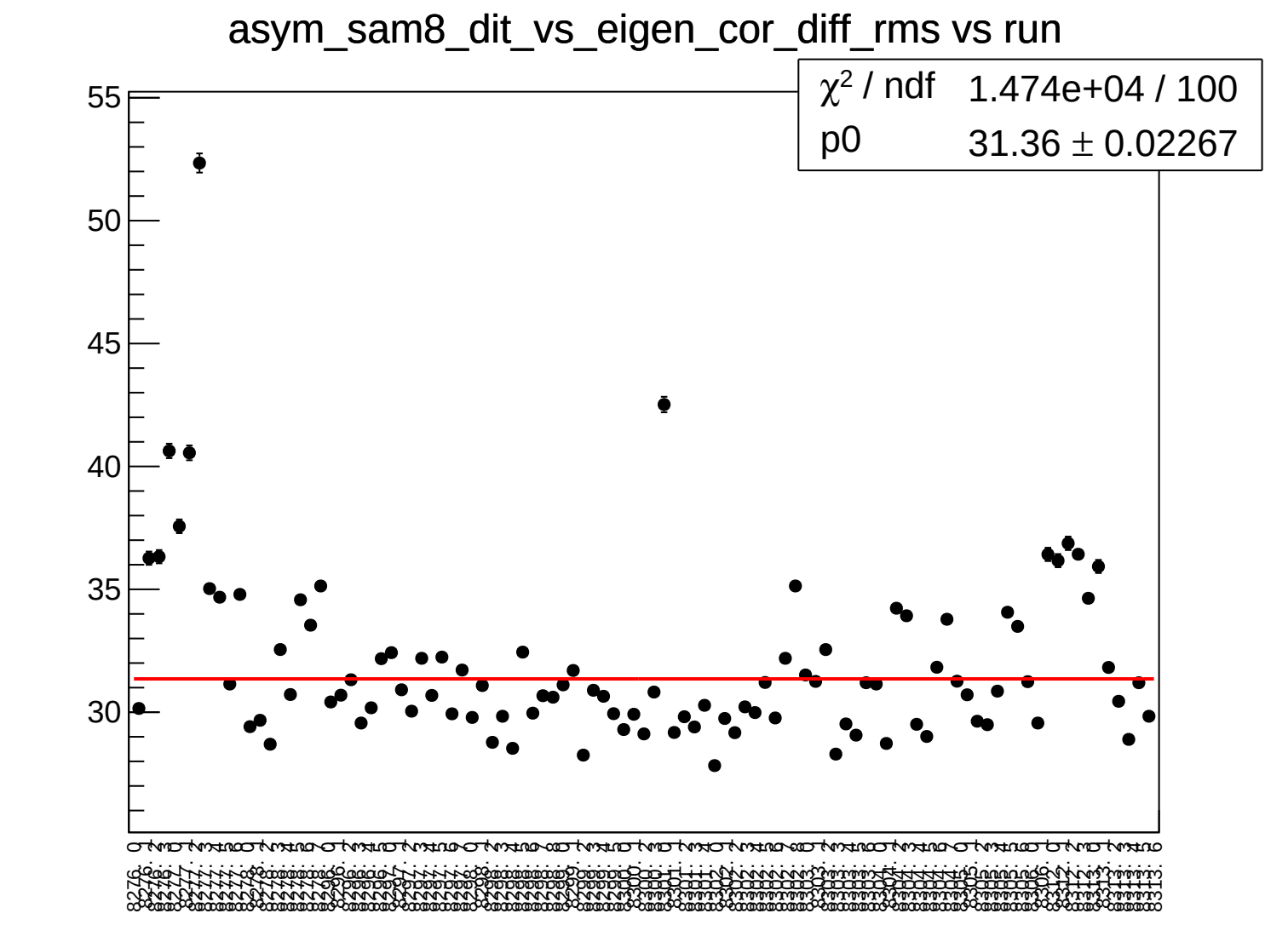

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 93.51 / 100
p0 0.06037 ± 0.03206
pull
Entries 101
Mean −388.8
Std Dev 0

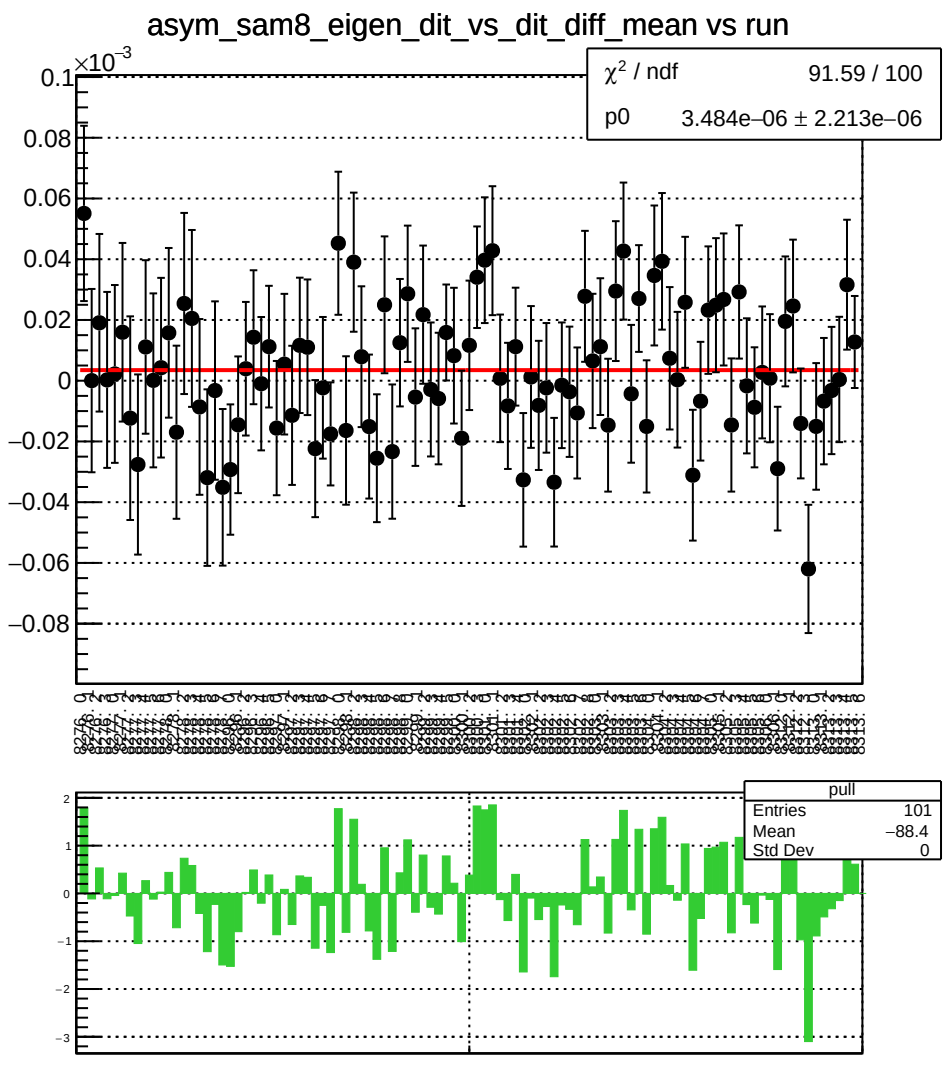

pull1D
Entries 101
Mean −0.01649
Std Dev 0.9621

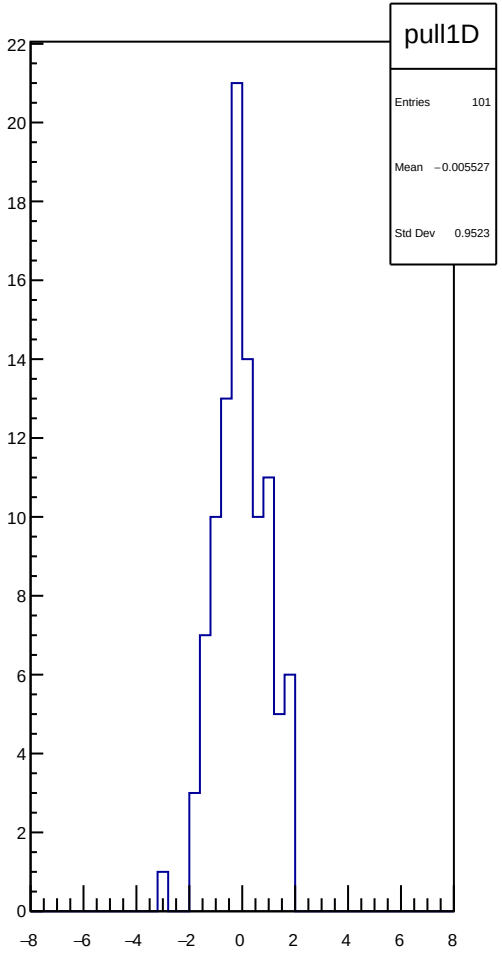

asym_sam8_dit_vs_cor_diff_rms vs run
χ² / ndf 1.474e+04 / 100
p0 31.36 ± 0.02267
55
50
45
40
35
30

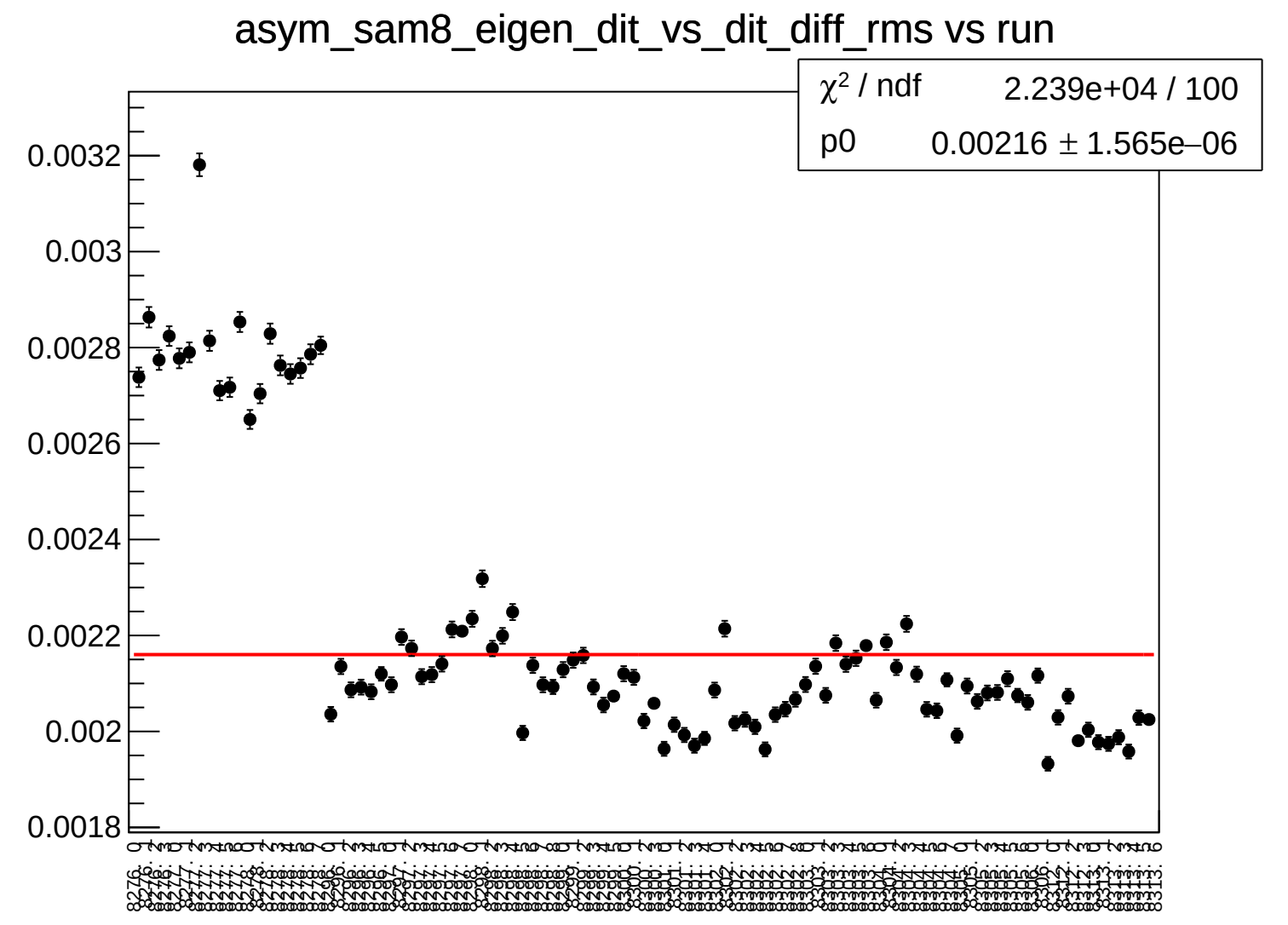

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.51 / 100
p0 0.06037 ± 0.03206
pull
Entries 101
Mean −388.8
Std Dev 0

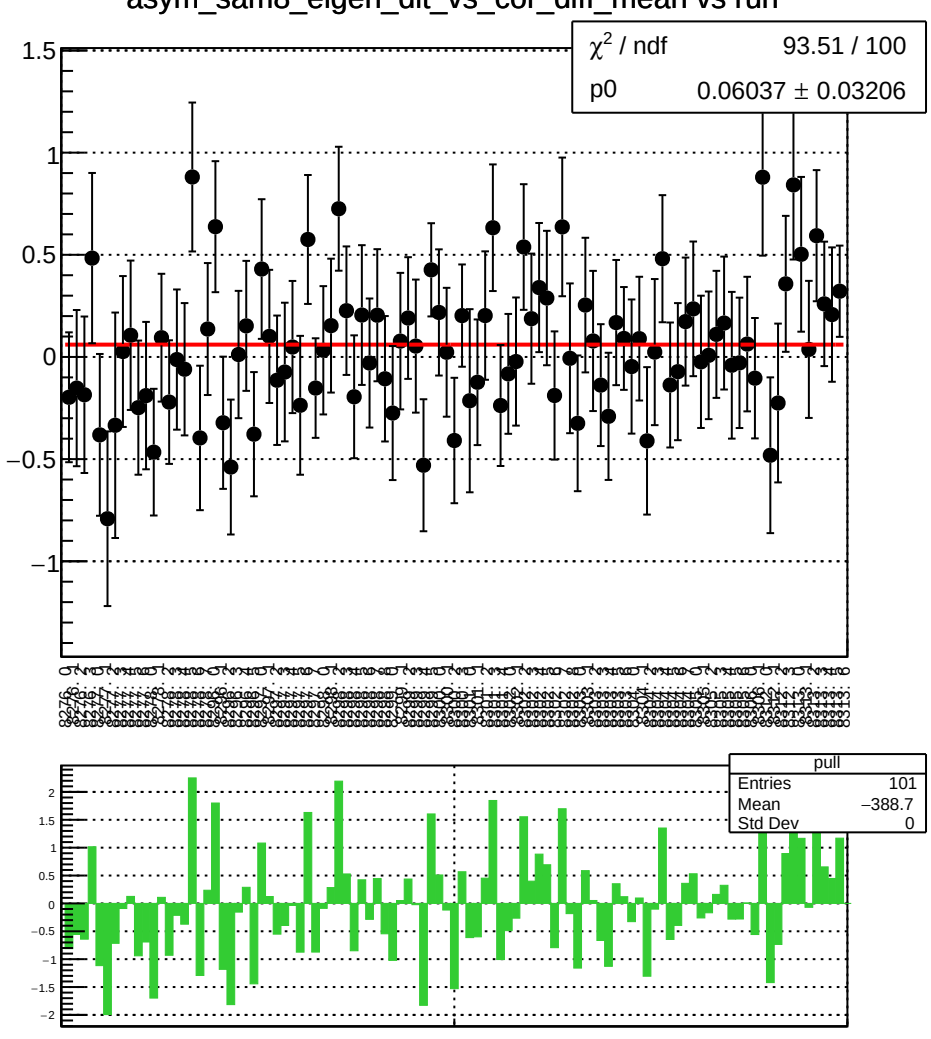

pull1D
Entries 101
Mean −0.01649
Std Dev 0.9621

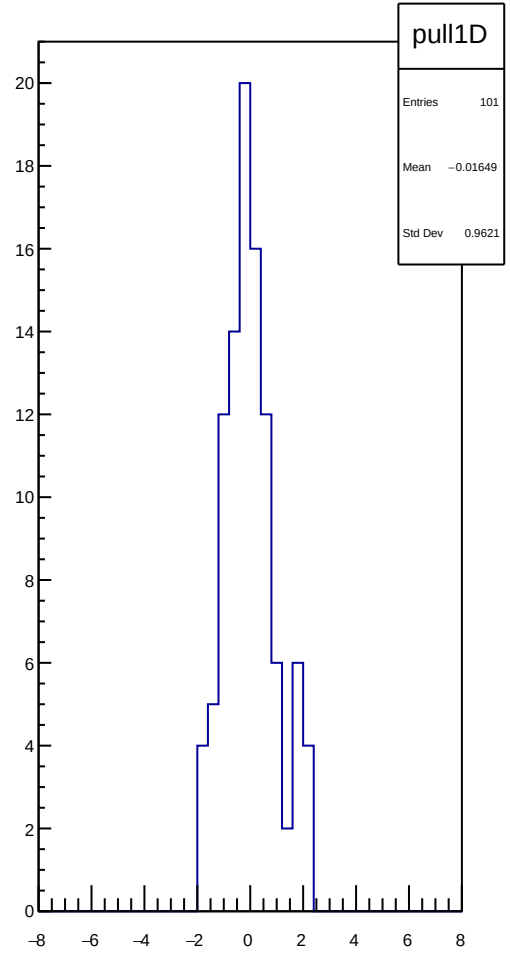

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.474e+04 / 100
p0 31.36 ± 0.02267
55
50
45
40
35
30

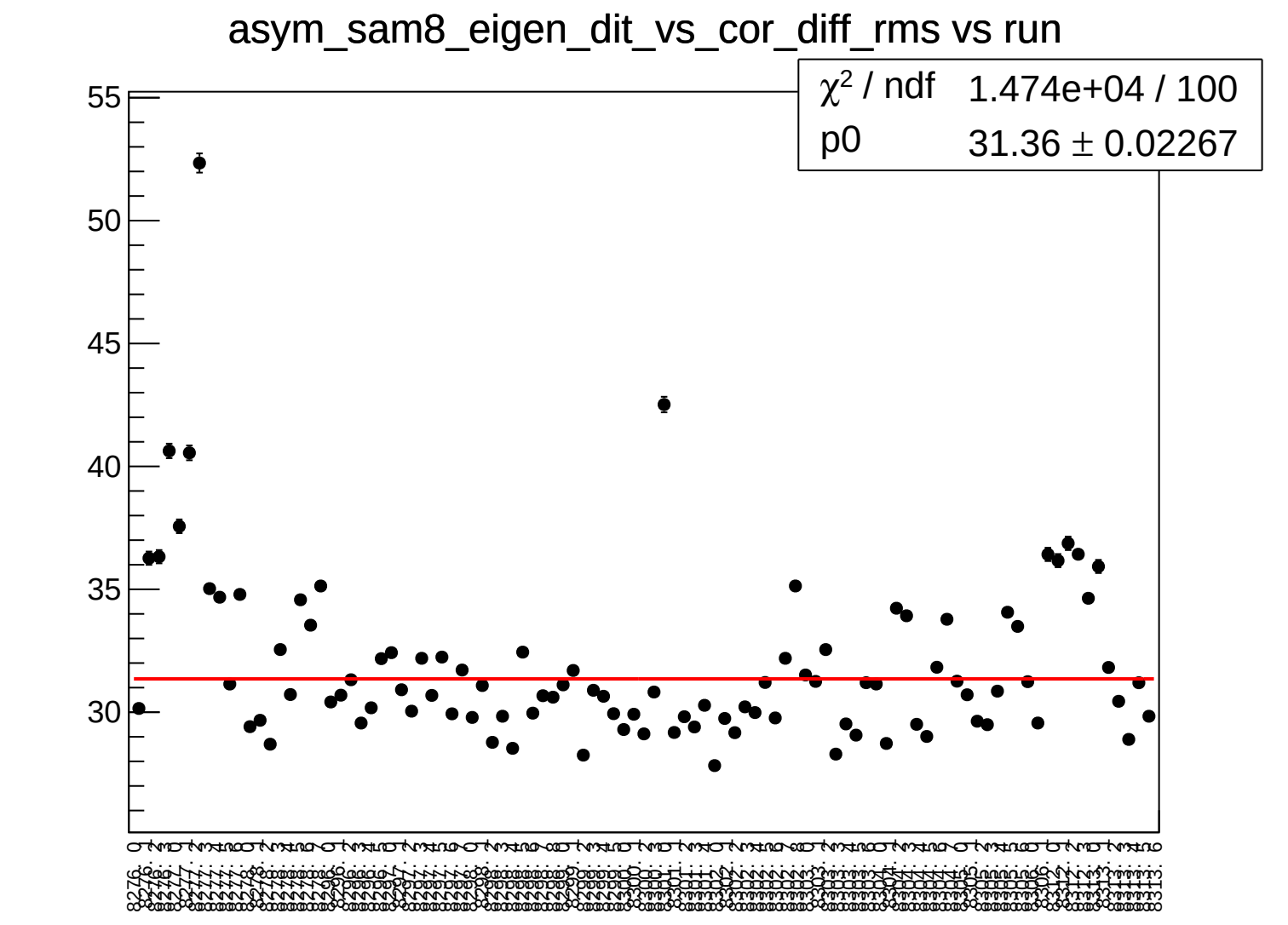

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.59 / 100
p0 3.484e−06 ± 2.213e−06
pull
Entries 101
Mean −88.4
Std Dev 0

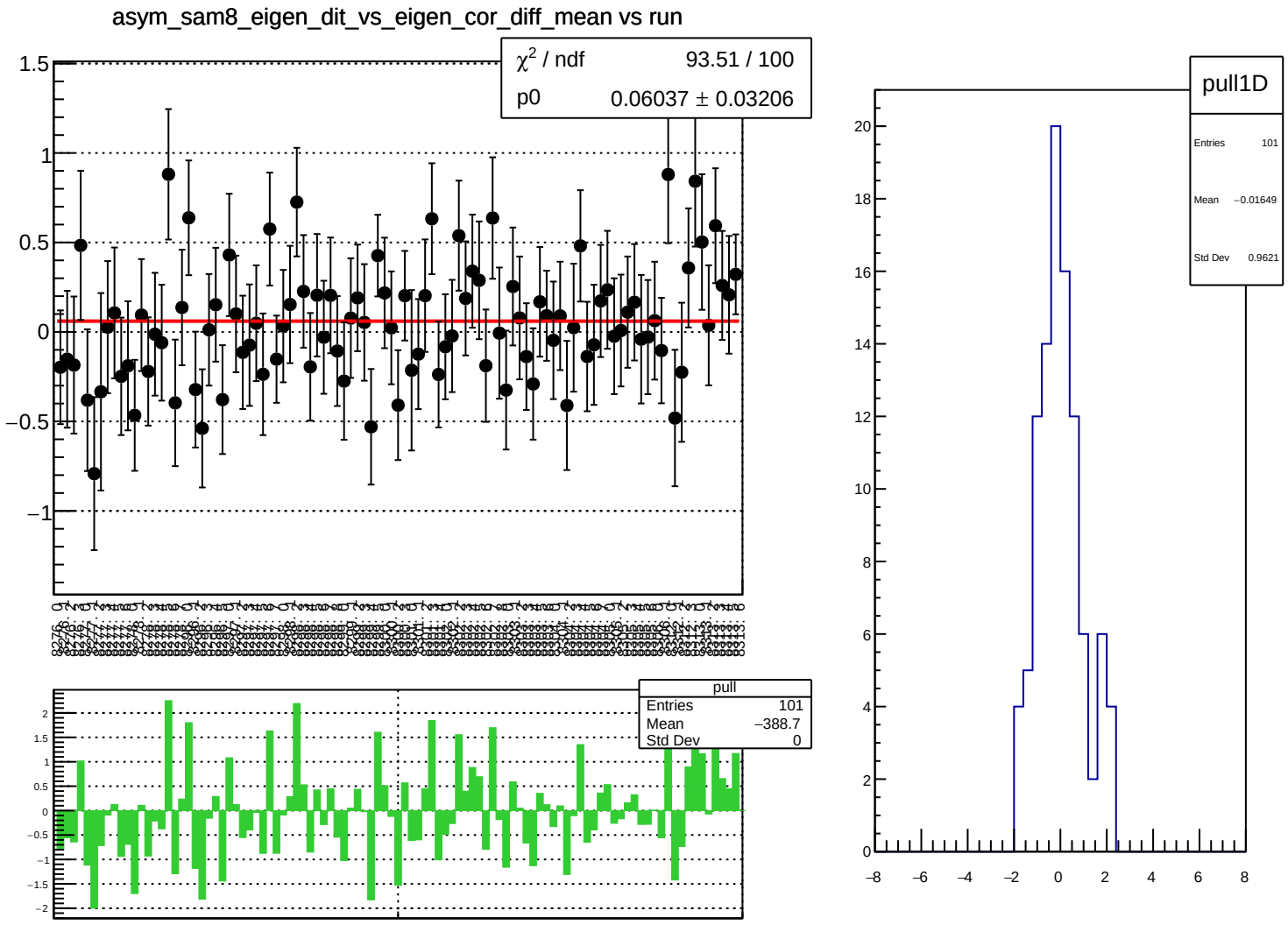

pull1D
Entries 101
Mean −0.005527
Std Dev 0.9523

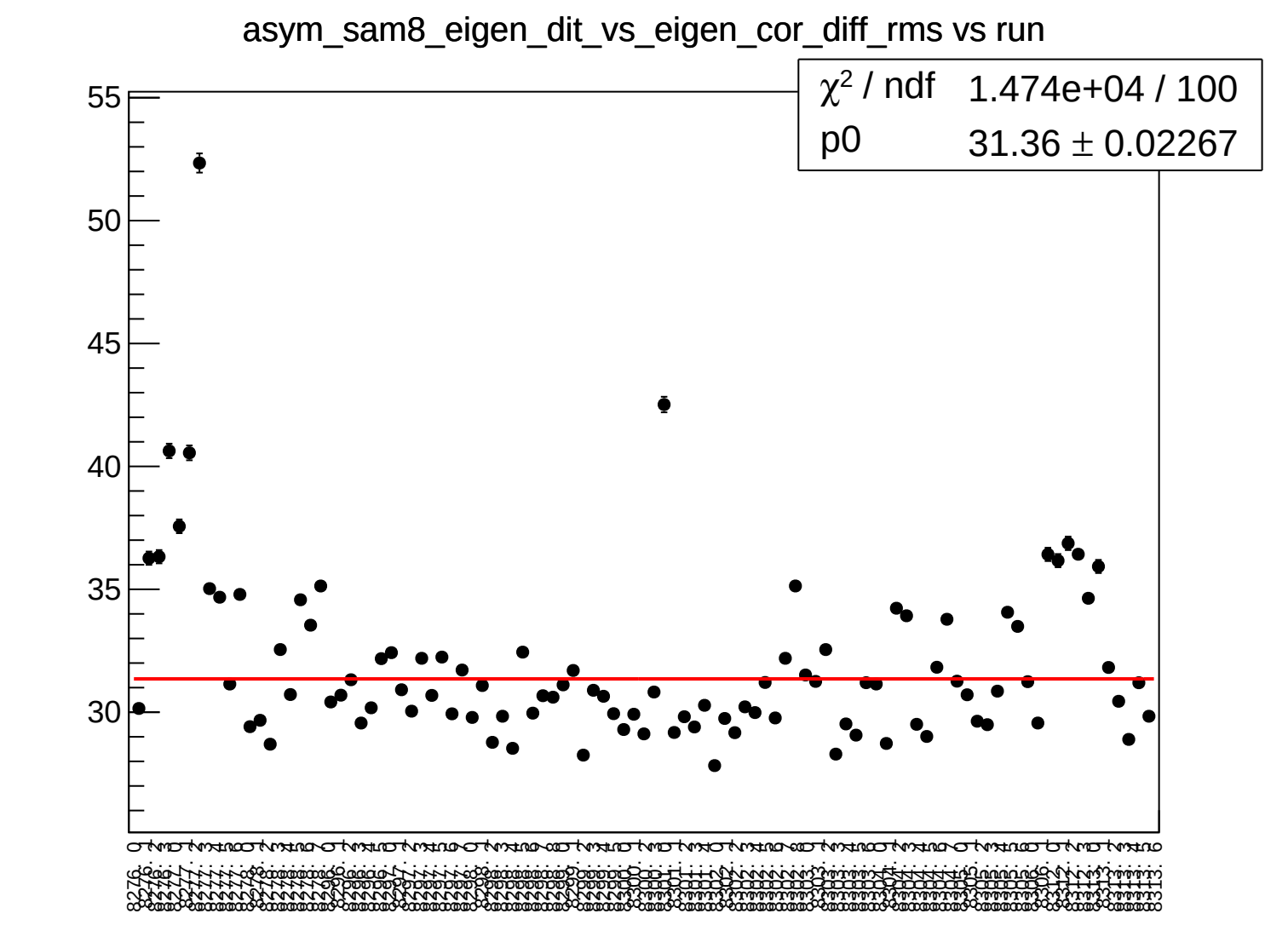

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.239e+04 / 100
p0 0.00216 ± 1.565e−06
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

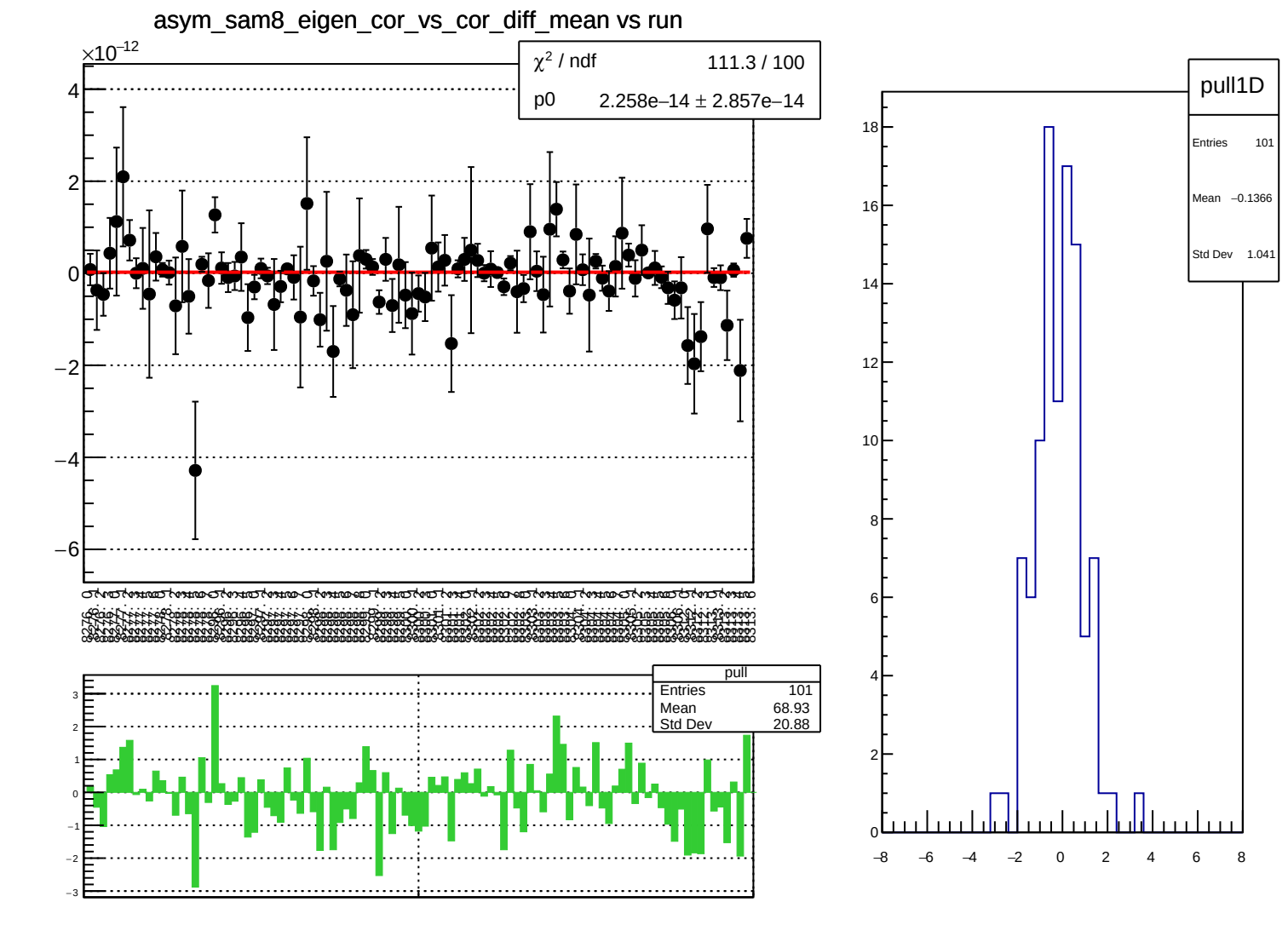

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.51 / 100
p0 0.06037 ± 0.03206
pull
Entries 101
Mean −388.7
Std Dev 0

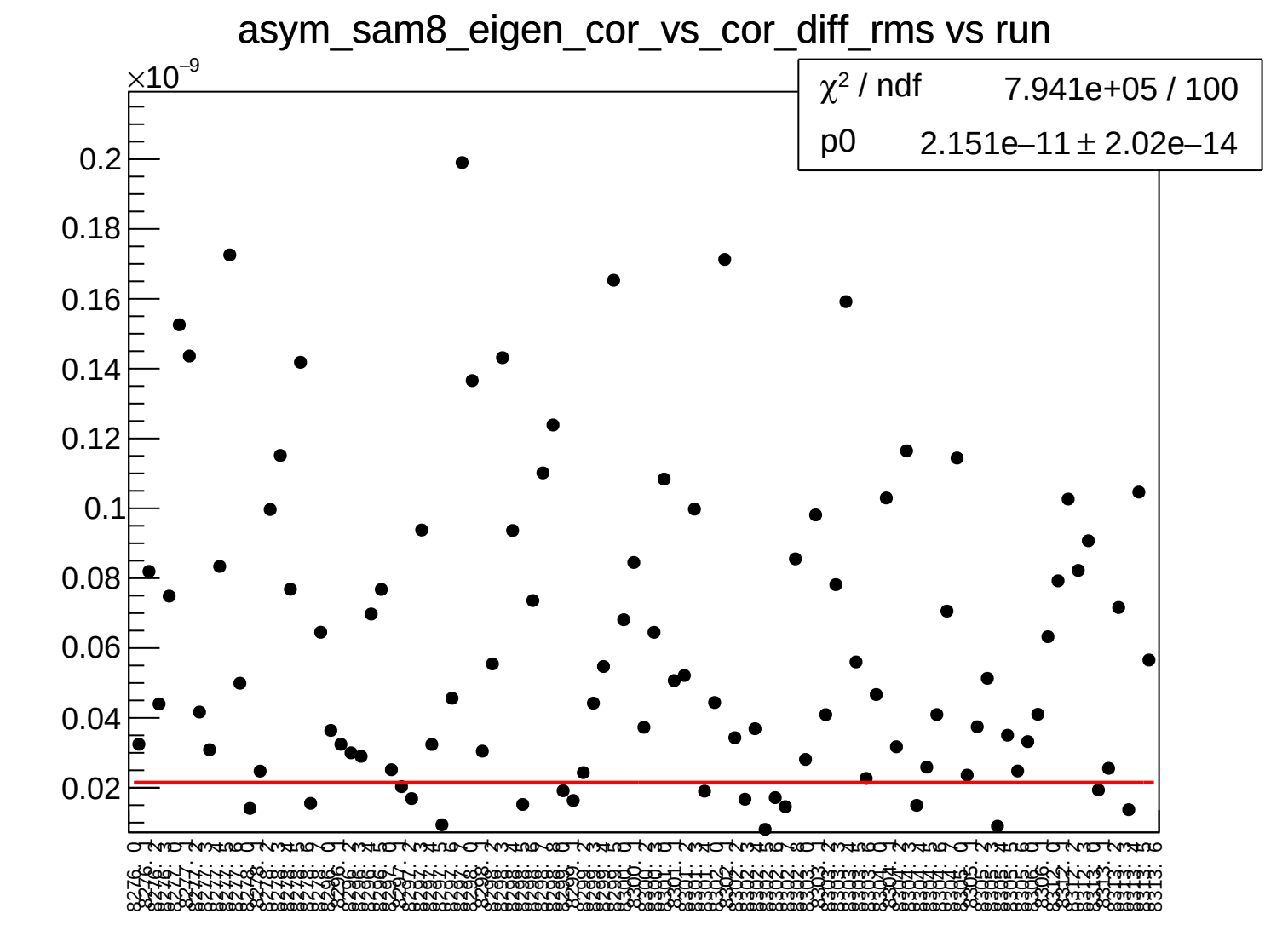

pull1D
Entries 101
Mean −0.01649
Std Dev 0.9621

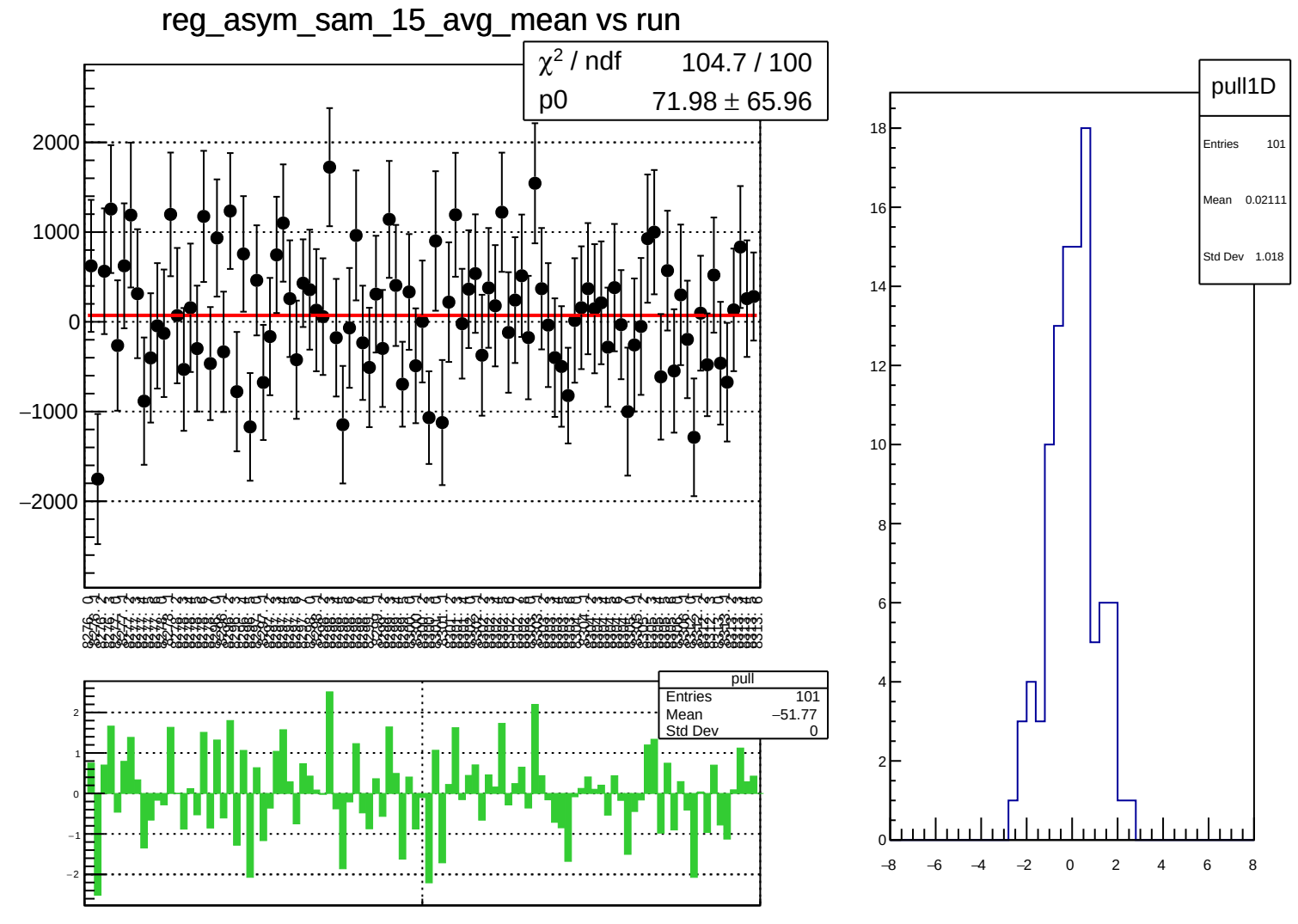

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.474e+04 / 100
p0 31.36 ± 0.02267
55
50
45
40
35
30

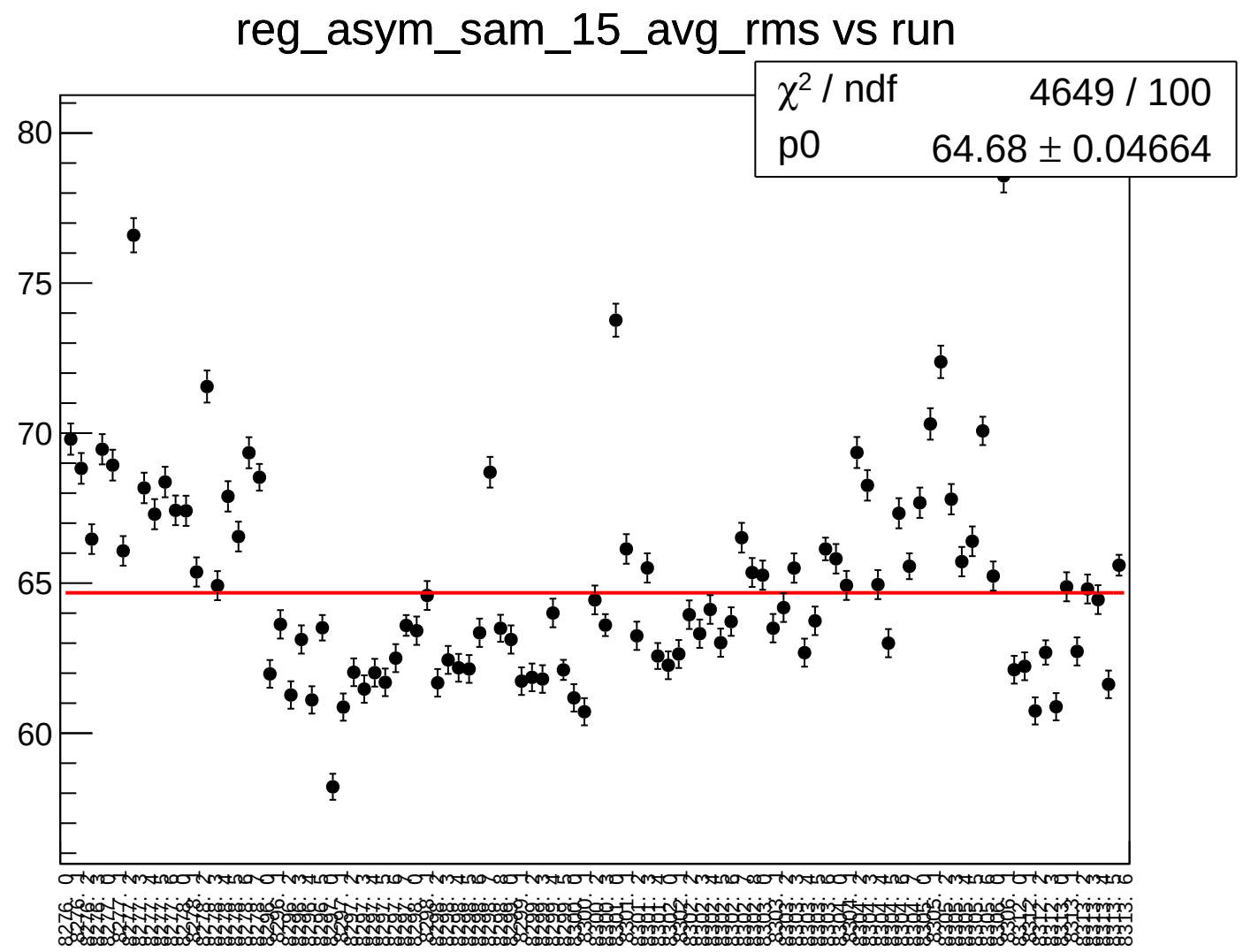

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.51 / 100
p0 0.06037 ± 0.03206
pull
Entries 101
Mean −388.7
Std Dev 0
pull1D
Entries 101
Mean −0.01649
Std Dev 0.9621

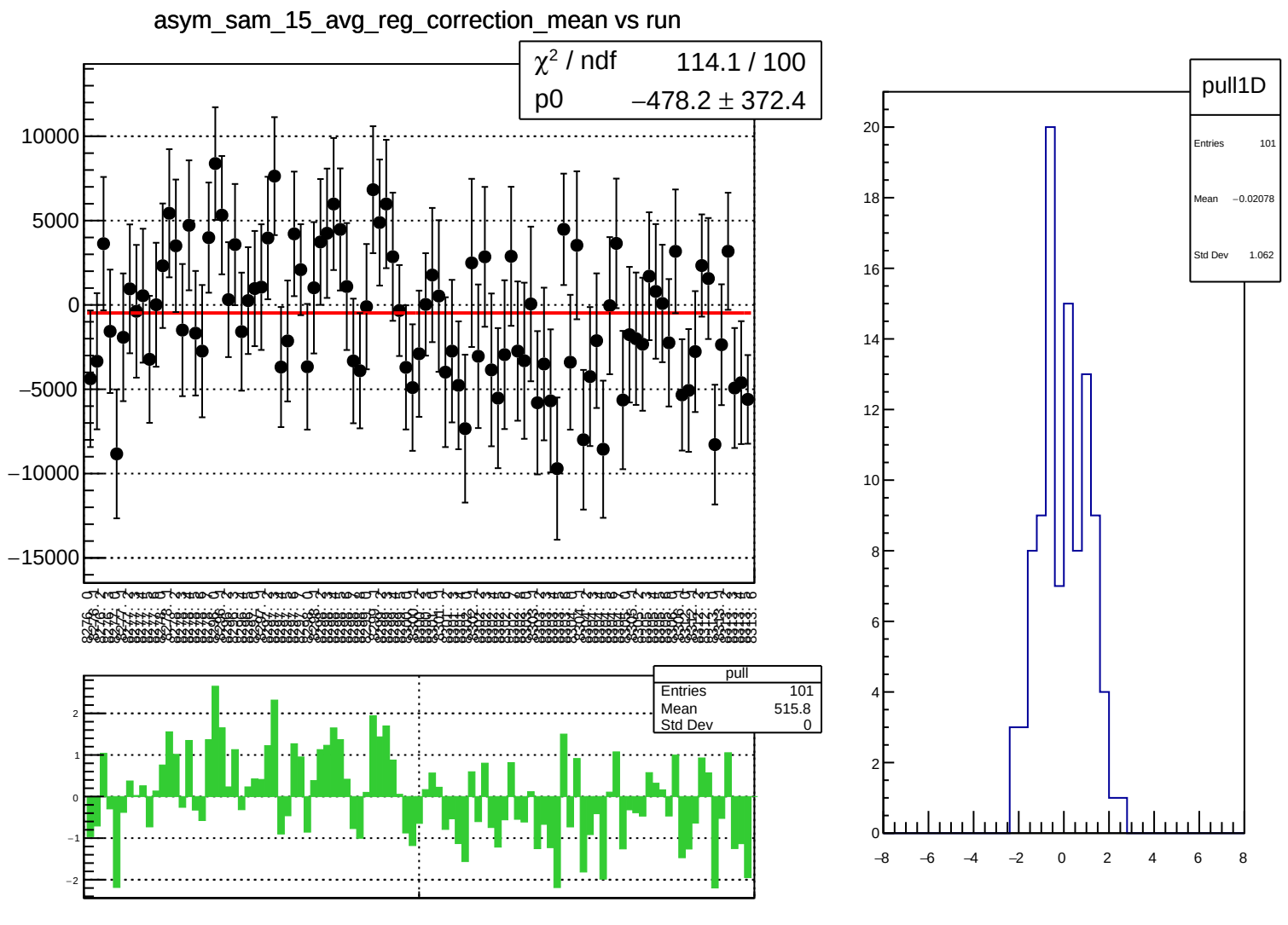

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.474e+04 / 100
p0 31.36 ± 0.02267
55
50
45
40
35
30

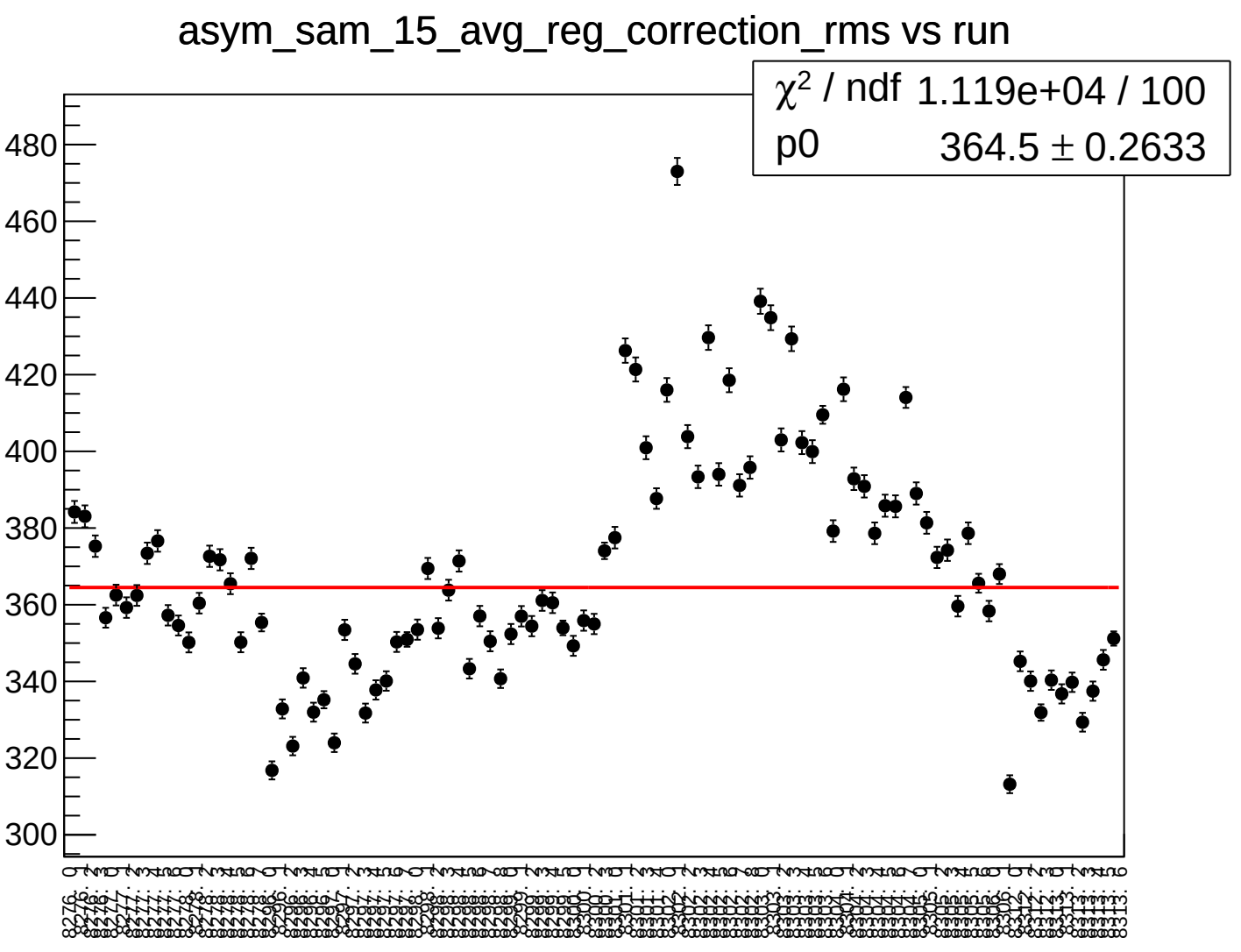

asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 111.3 / 100
p0 2.258e−14 ± 2.857e−14
pull
Entries 101
Mean 68.93
Std Dev 20.88
pull1D
Entries 101
Mean −0.1366
Std Dev 1.041

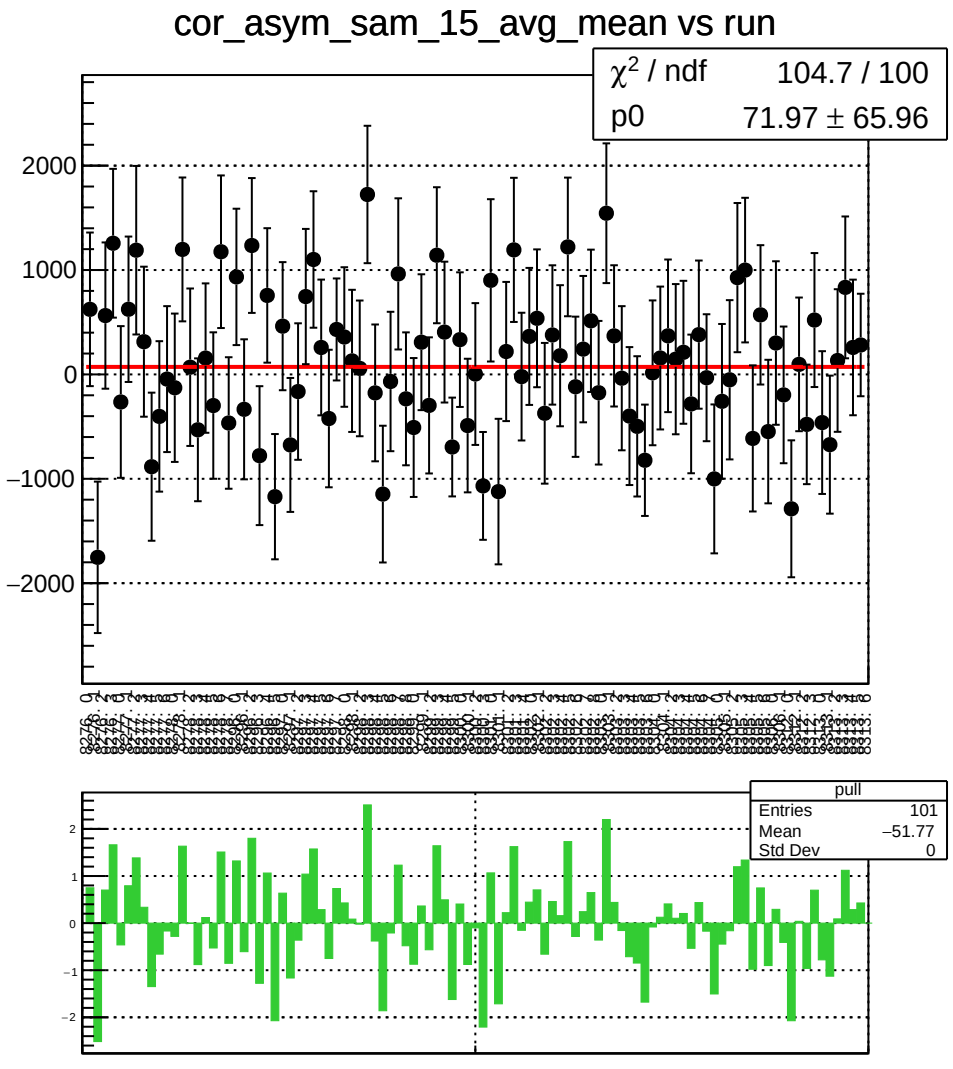

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.941e+05 / 100
p0 2.151e−11 ± 2.02e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

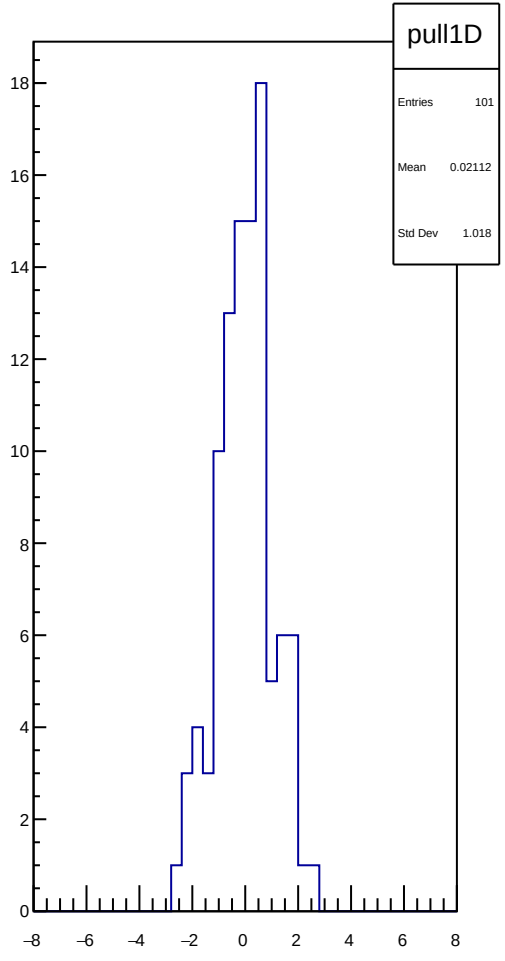

reg_asym_sam_15_avg_mean vs run
χ² / ndf 104.7 / 100
p0 71.98 ± 65.96
2000
1000
0
−1000
−2000
pull
Entries 101
Mean −51.77
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.02111
Std Dev 1.018
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_15_avg_rms vs run
χ² / ndf 4649 / 100
p0 64.68 ± 0.04664
80
75
70
65
60


asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 114.1 / 100
p0 −478.2 ± 372.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 101
Mean 515.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.02078
Std Dev 1.062
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 1.119e+04 / 100
p0 364.5 ± 0.2633
480
460
440
420
400
380
360
340
320
300


cor_asym_sam_15_avg_mean vs run
χ² / ndf 104.7 / 100
p0 71.97 ± 65.96
2000
1000
0
−1000
−2000
pull
Entries 101
Mean −51.77
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 101
Mean 0.02112
Std Dev 1.018
18
16
14
12
10
8
6
4
2
0
−8
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−4
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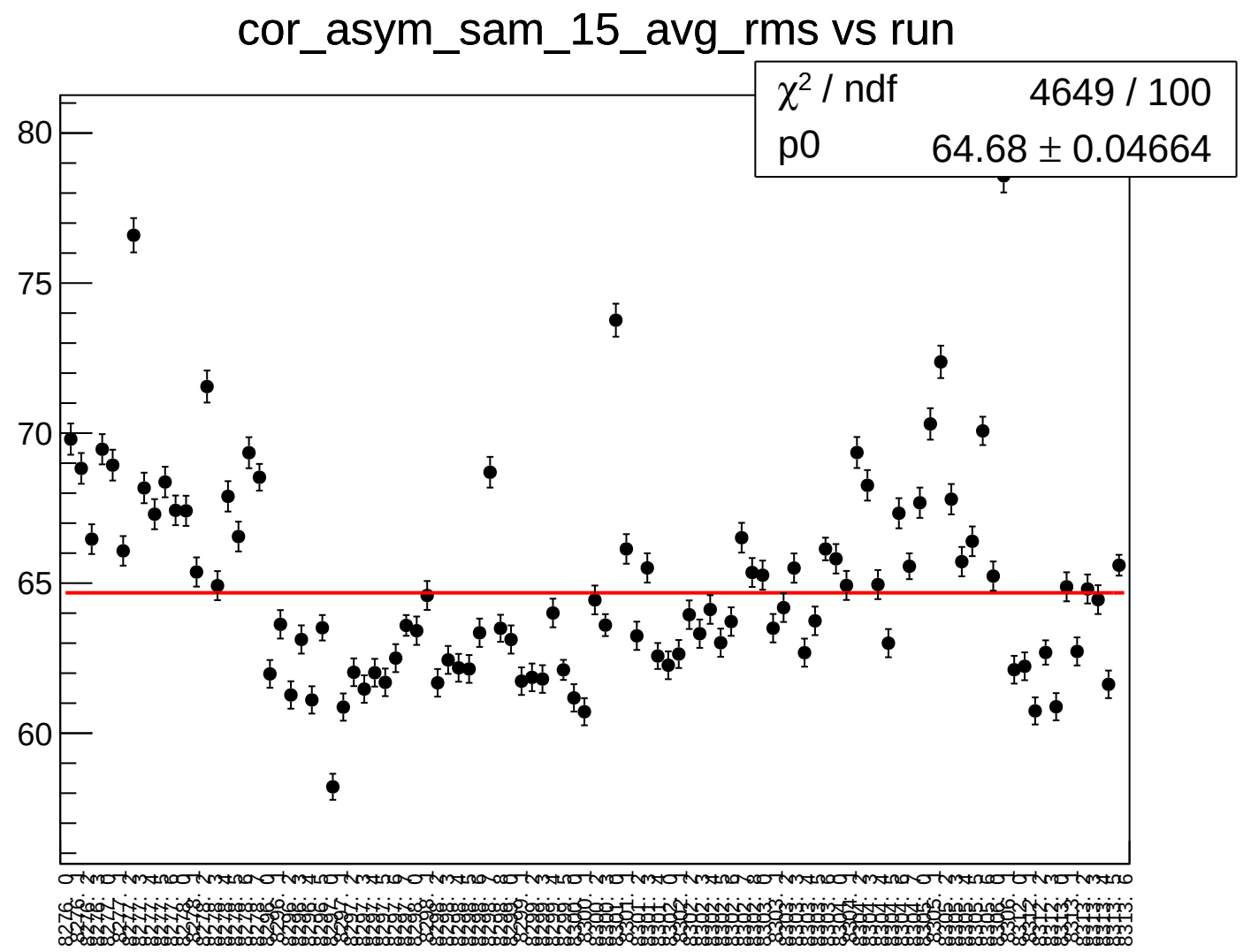
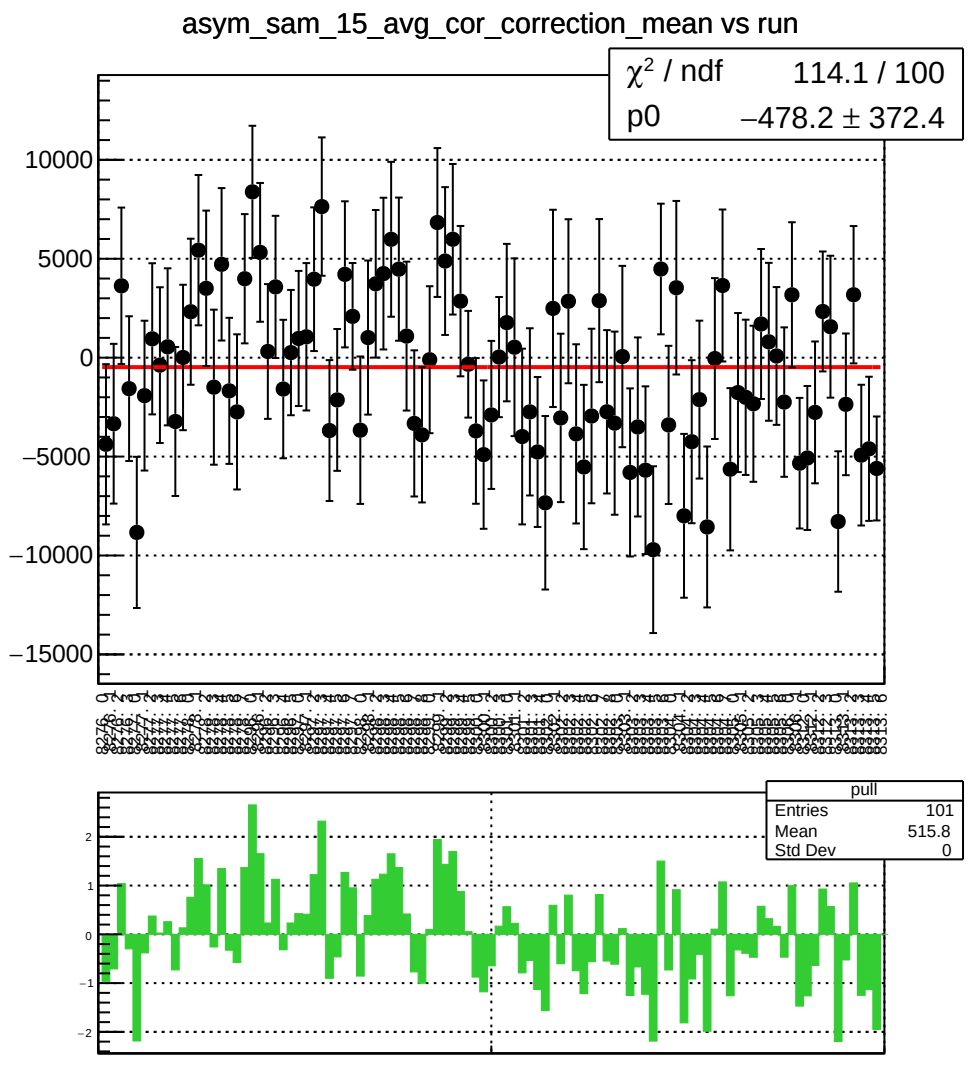
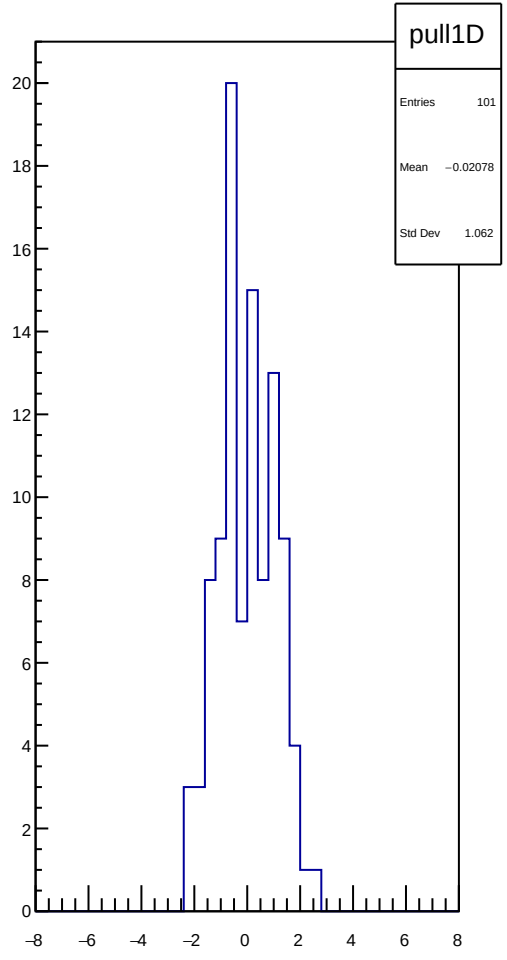
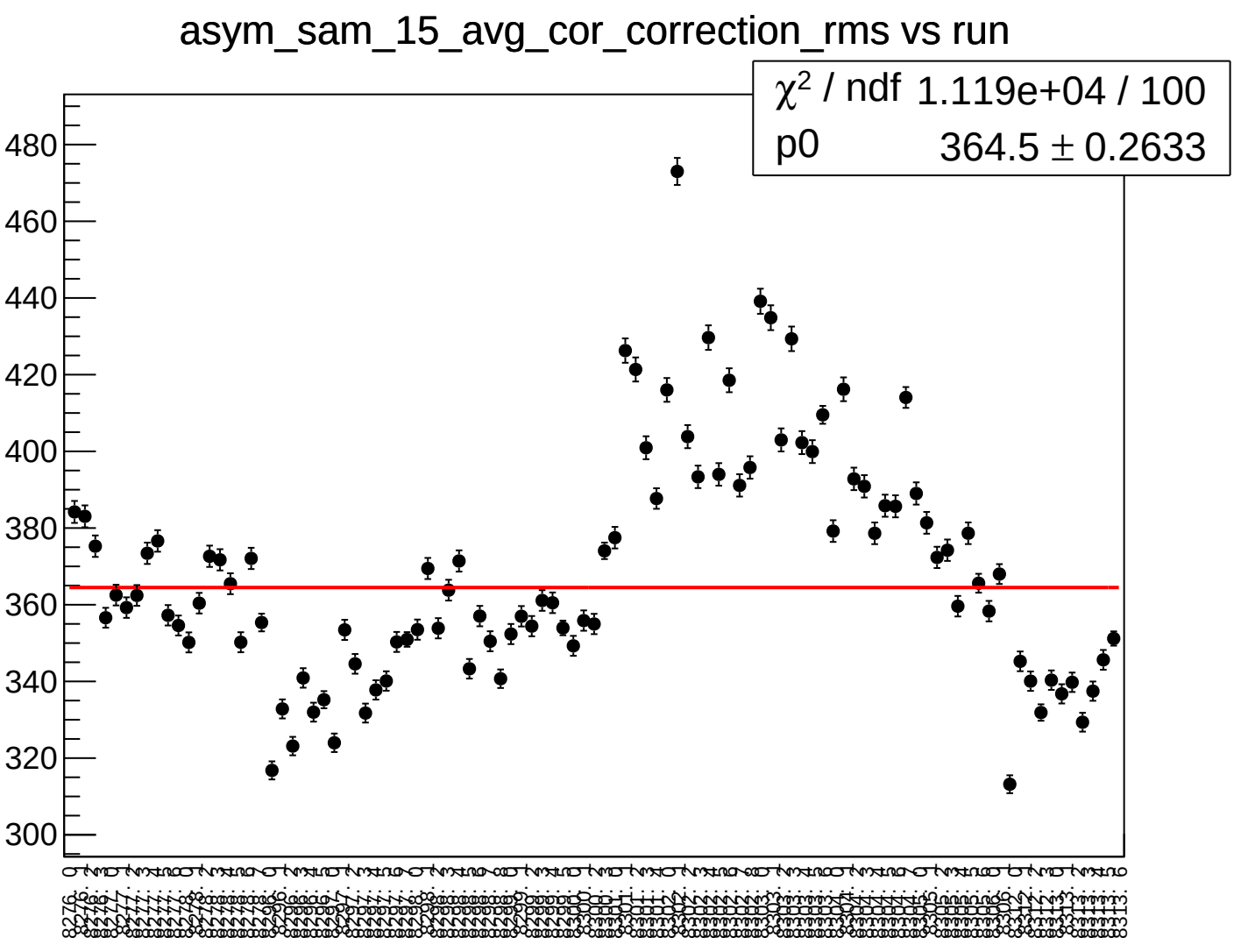
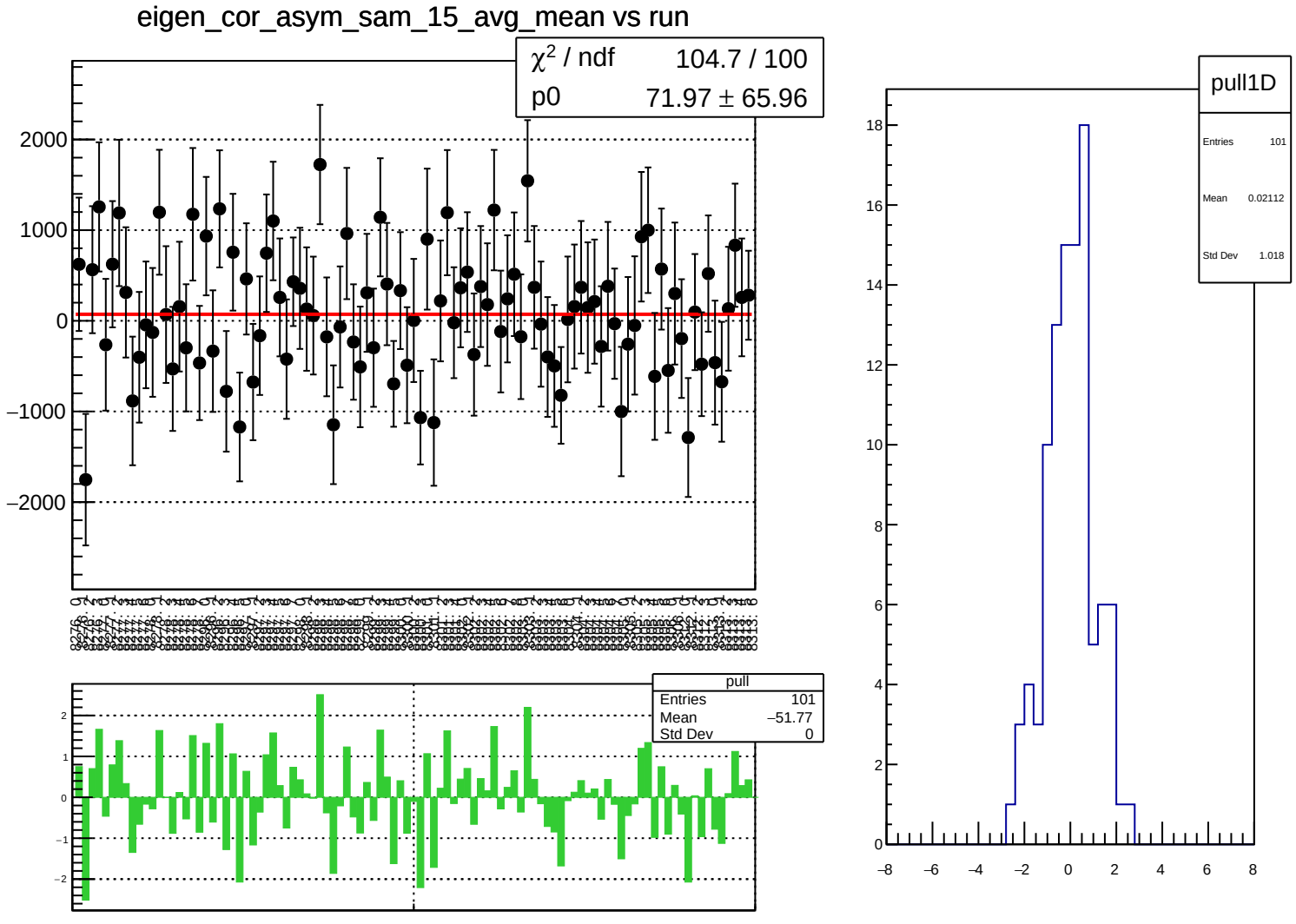
0
2
4
6
8

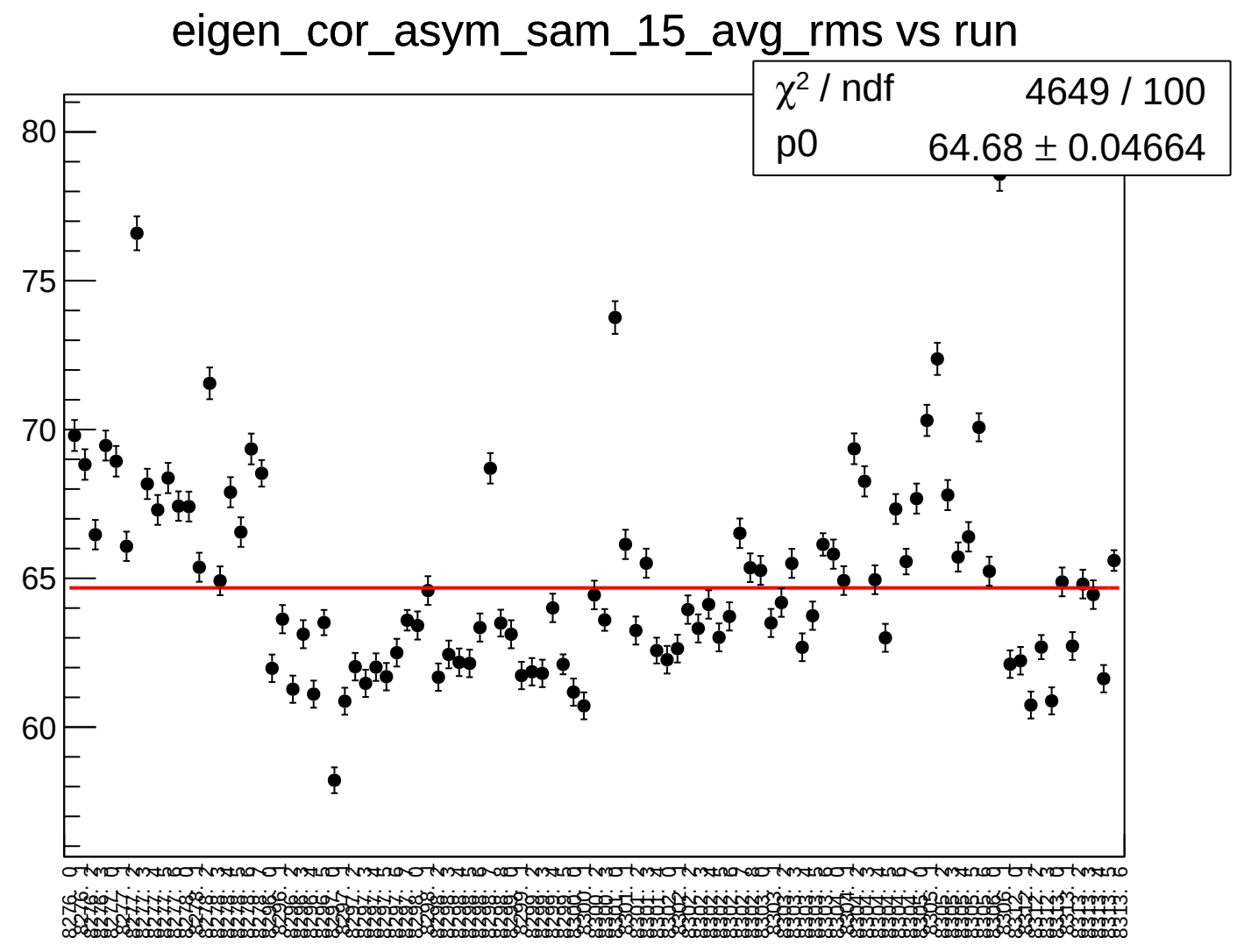

cor_asym_sam_15_avg_rms vs run
χ² / ndf 4649 / 100
p0 64.68 ± 0.04664
80
75
70
65
60

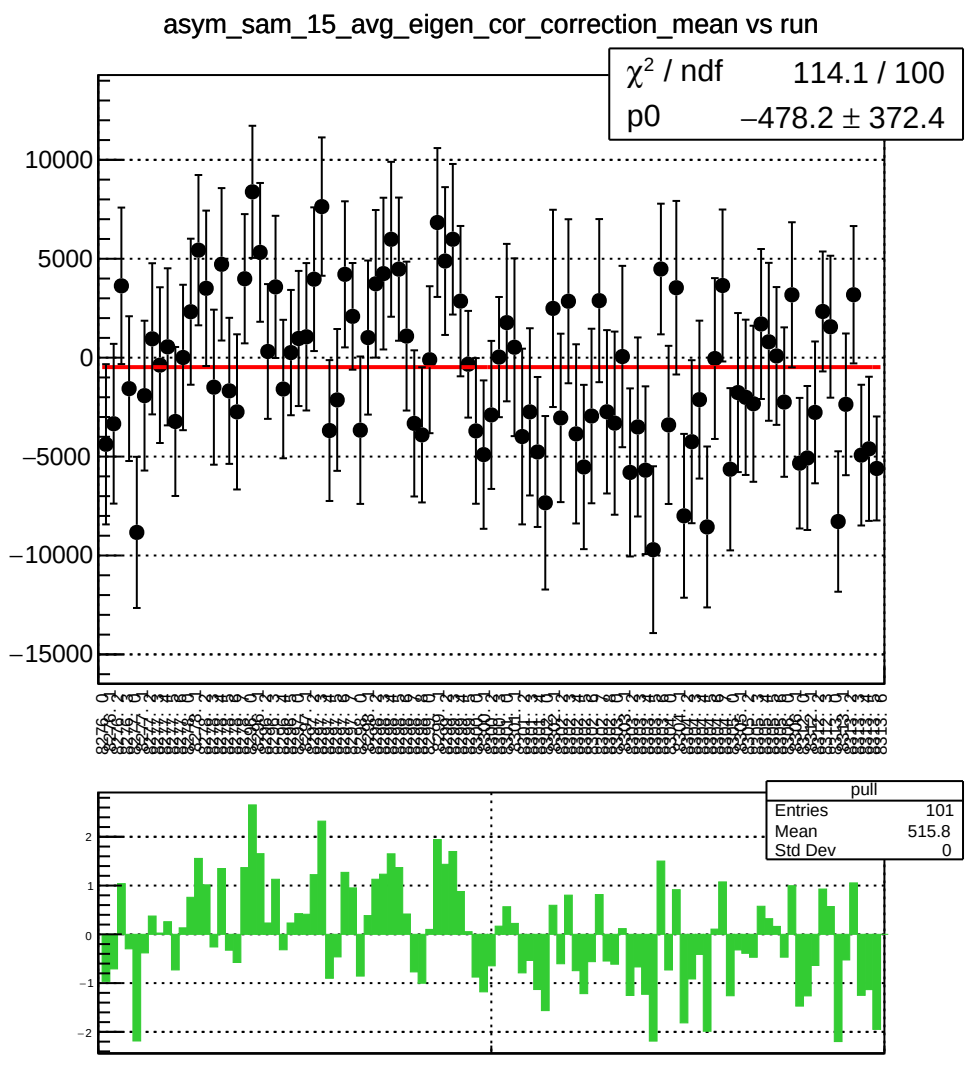

asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 114.1 / 100
p0 −478.2 ± 372.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 101
Mean 515.8
Std Dev 0
2
1
0
−1
−2

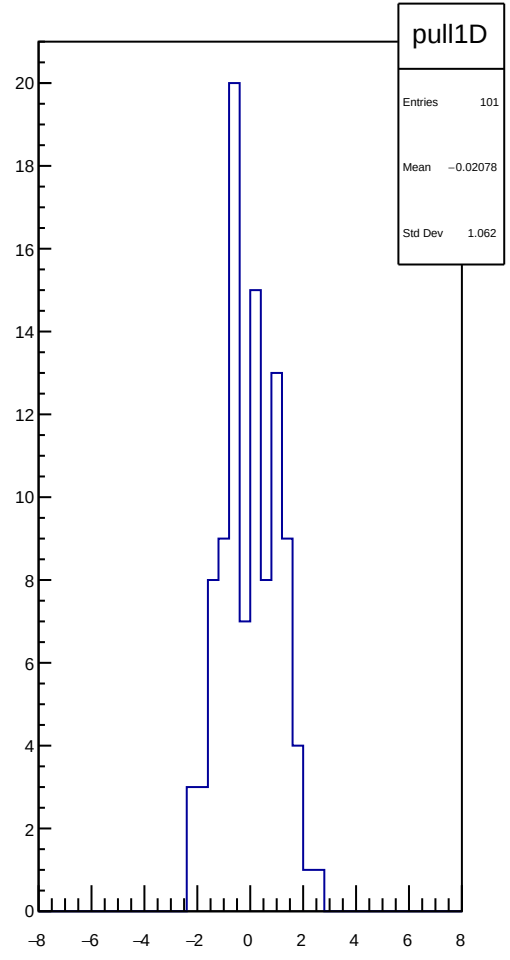

pull1D
Entries 101
Mean −0.02078
Std Dev 1.062
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

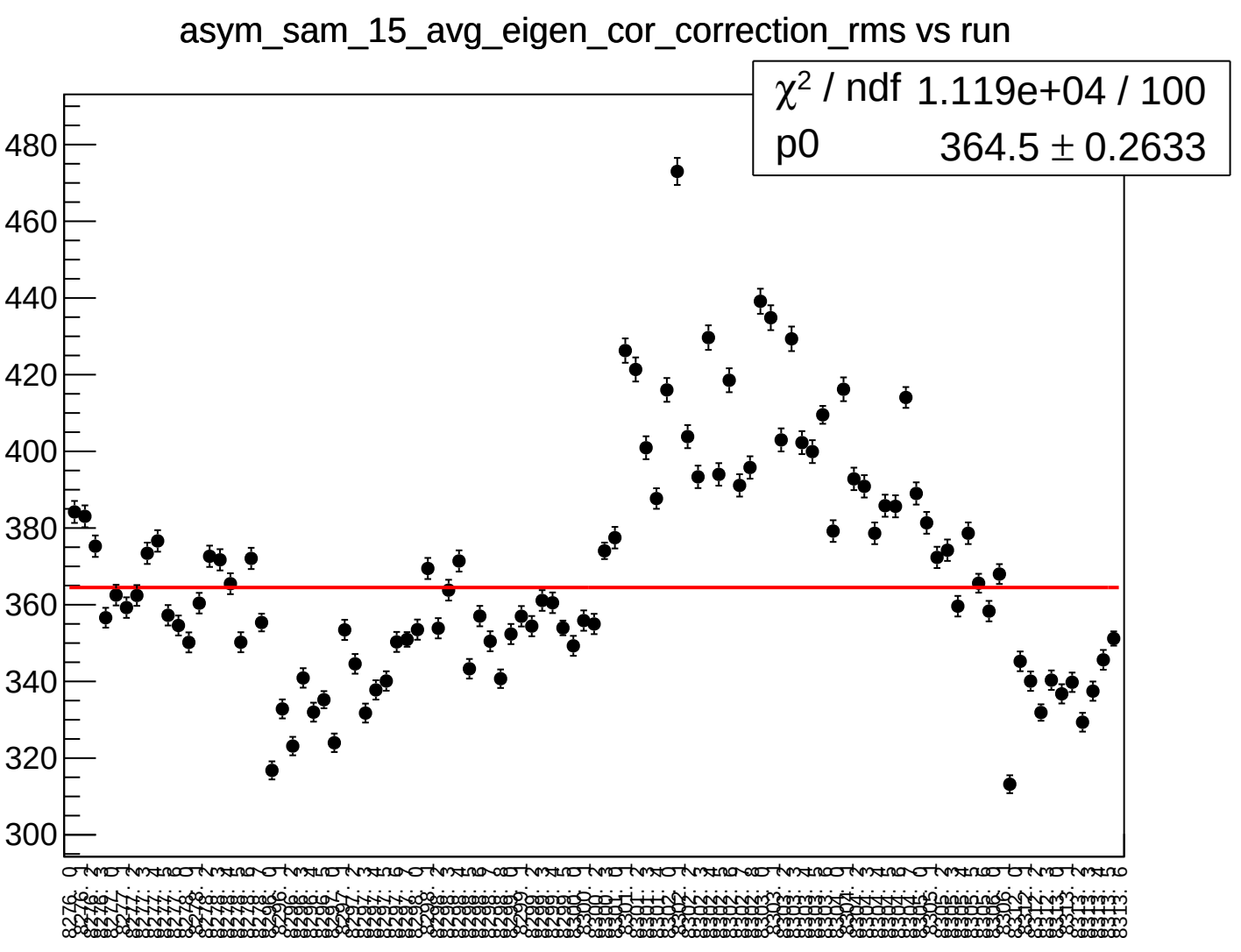

asym_sam_15_avg_cor_correction_rms vs run
χ² / ndf 1.119e+04 / 100
p0 364.5 ± 0.2633
480
460
440
420
400
380
360
340
320
300

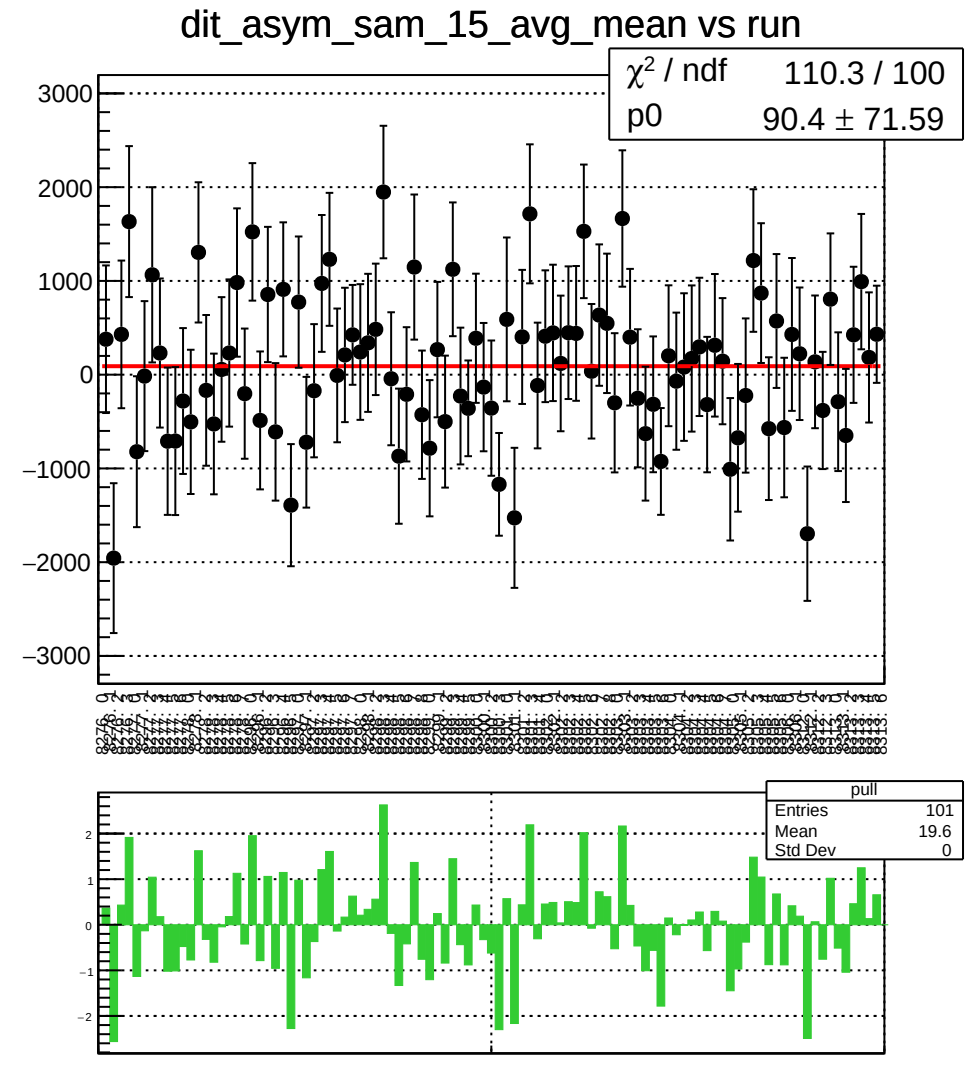

eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 104.7 / 100
p0 71.97 ± 65.96
2000
1000
0
−1000
−2000
pull
Entries 101
Mean −51.77
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.02112
Std Dev 1.018
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

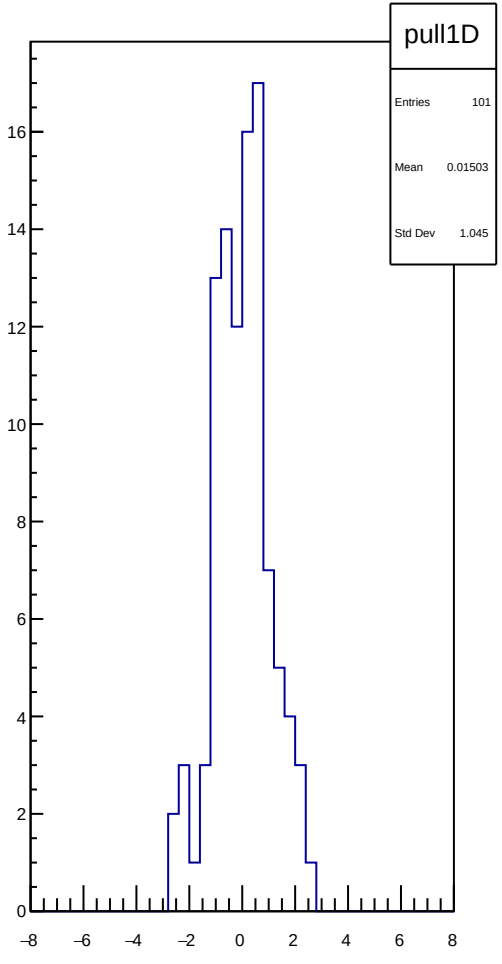

eigen_cor_asym_sam_15_avg_rms vs run
χ² / ndf 4649 / 100
p0 64.68 ± 0.04664
80
75
70
65
60

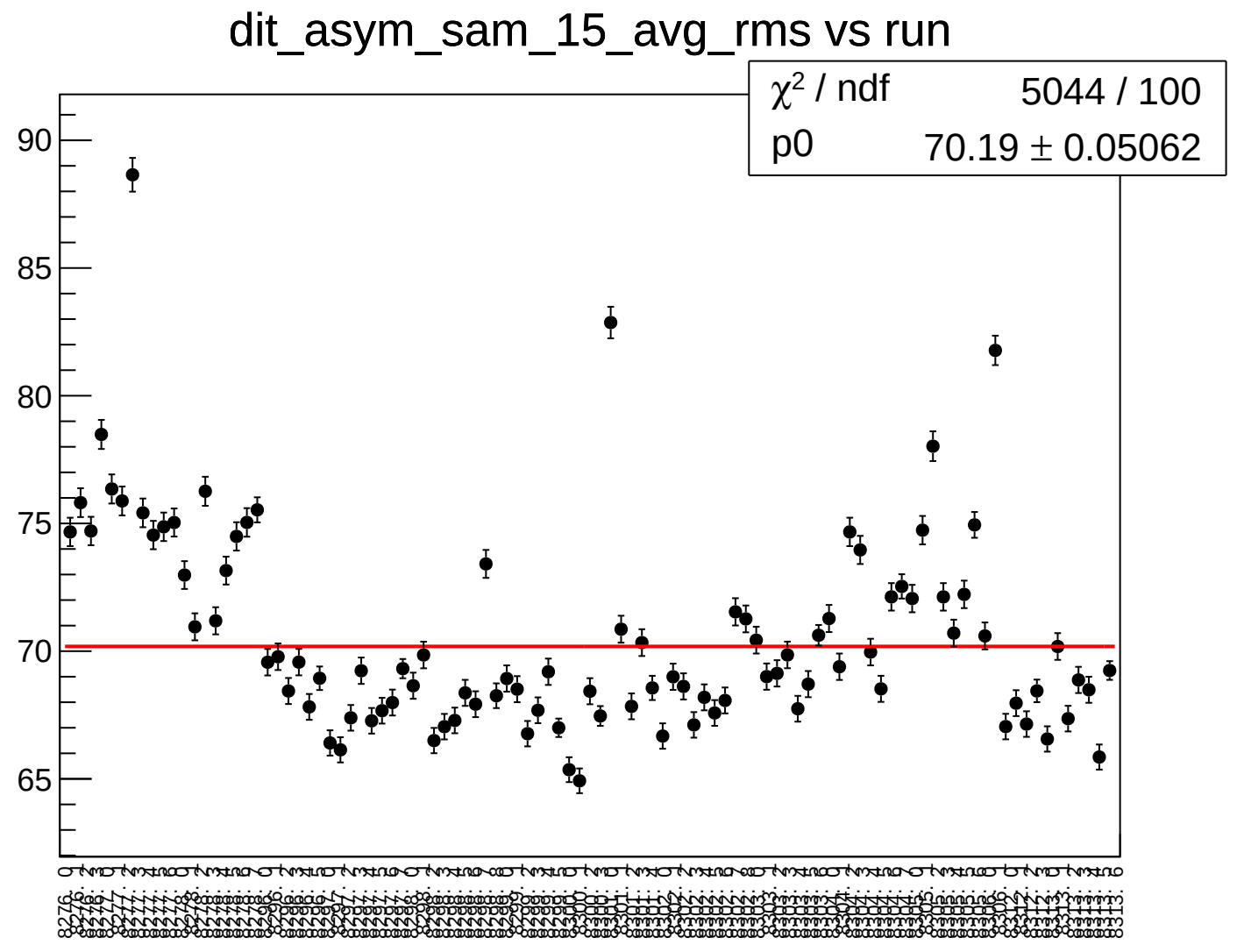

asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 114.1 / 100
p0 −478.2 ± 372.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 101
Mean 515.8
Std Dev 0
2
1
0
−1
−2

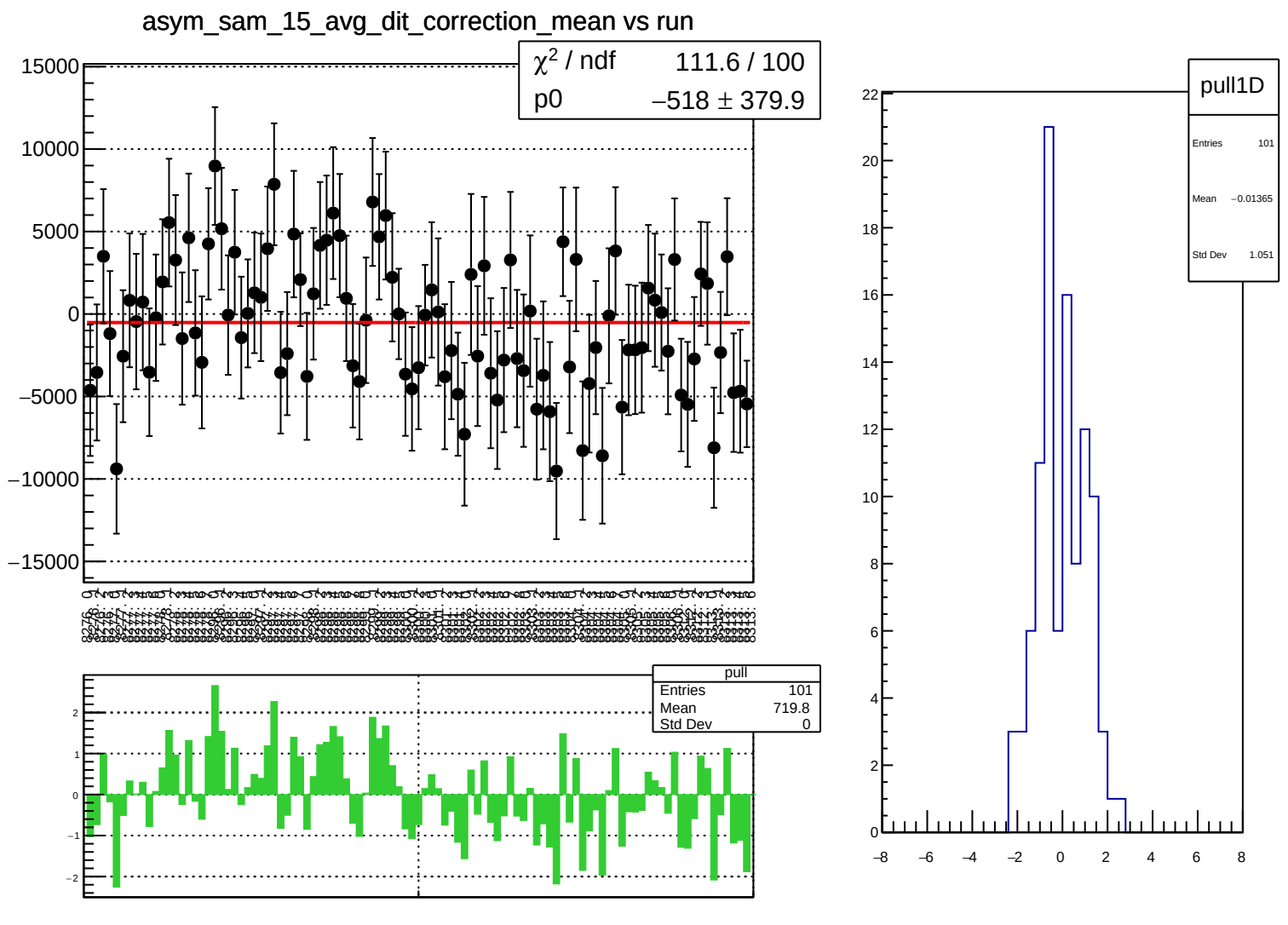

pull1D
Entries 101
Mean −0.02078
Std Dev 1.062
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

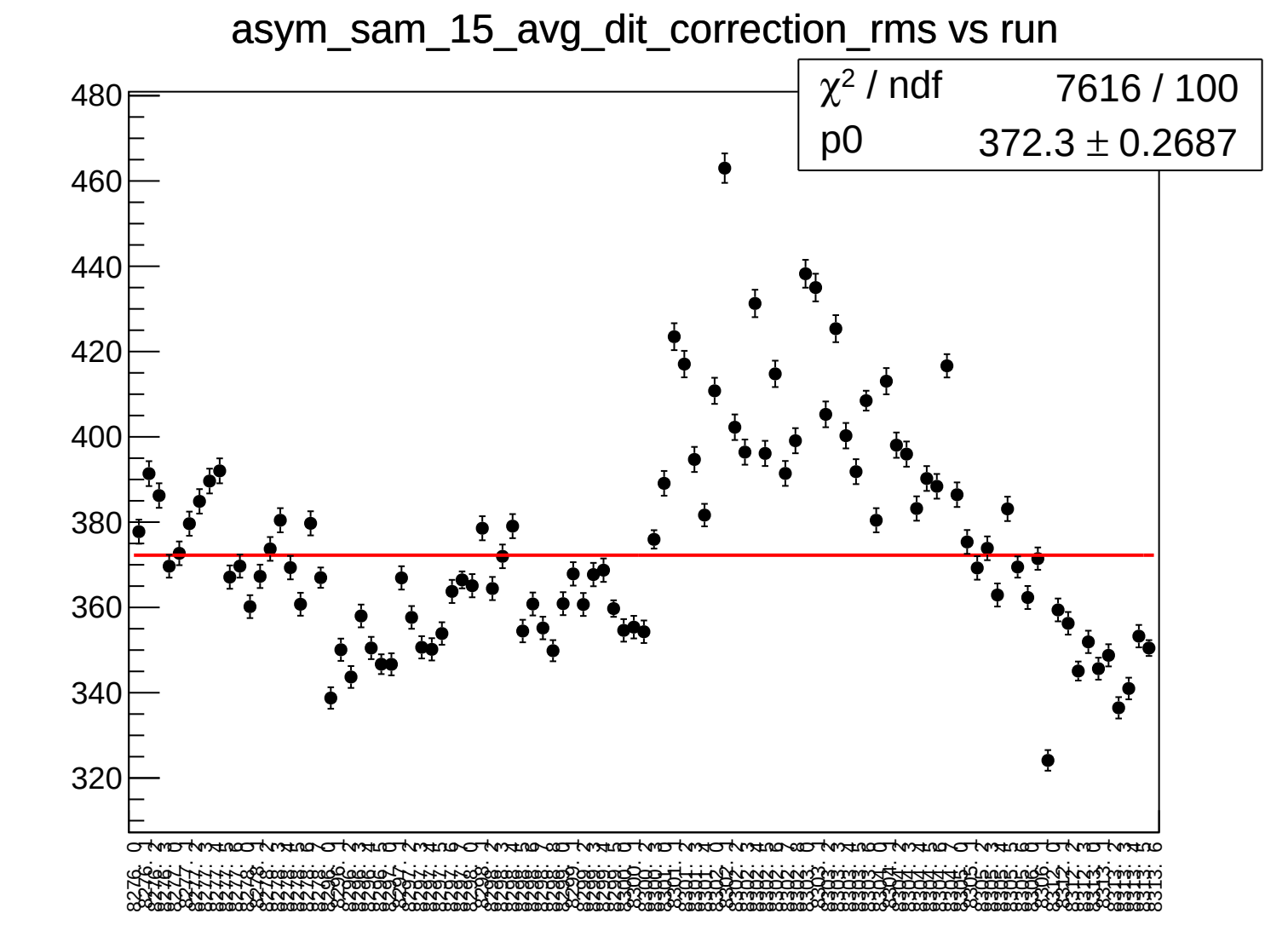

asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.119e+04 / 100
p0 364.5 ± 0.2633
480
460
440
420
400
380
360
340
320
300

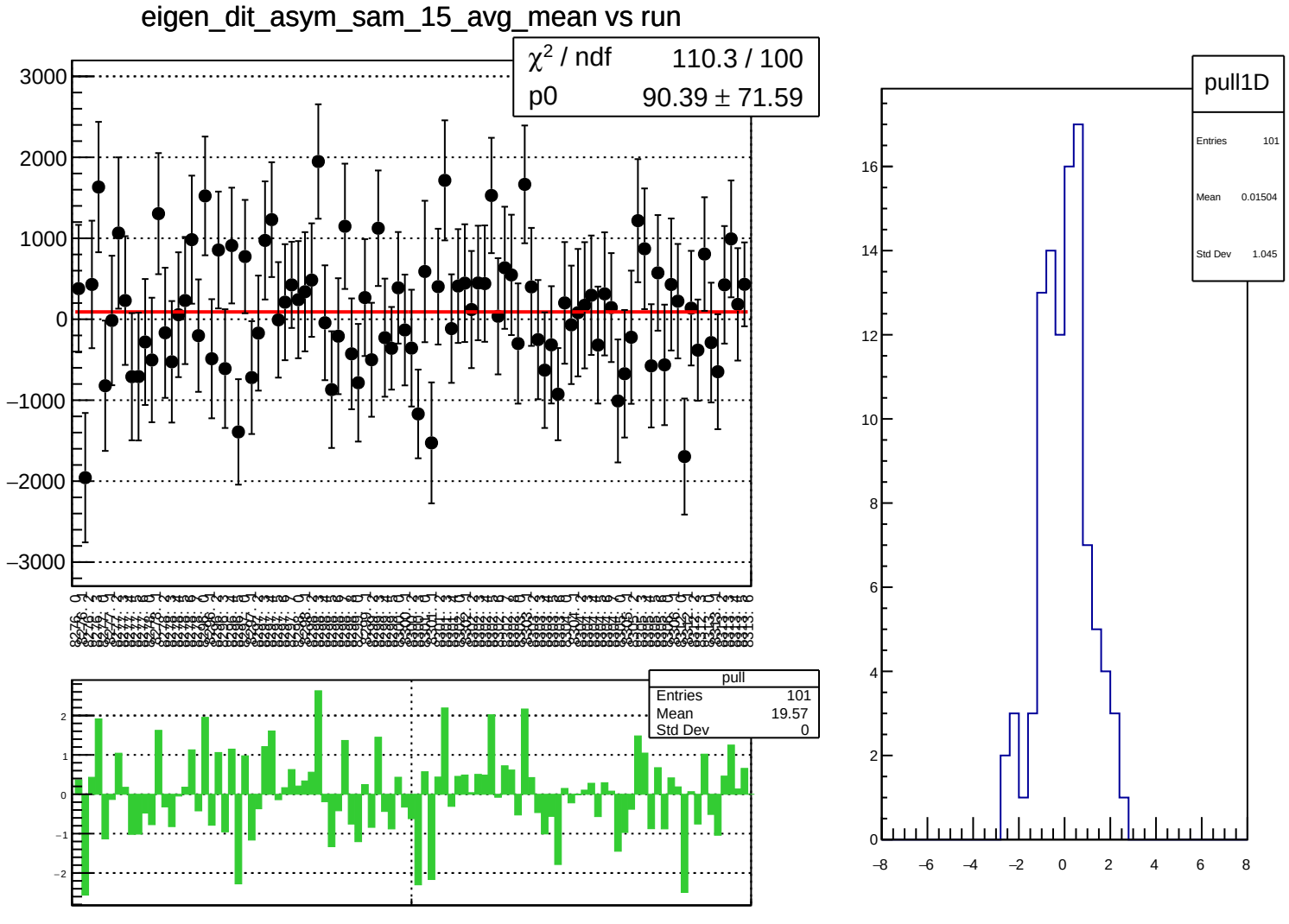

dit_asym_sam_15_avg_mean vs run
χ² / ndf 110.3 / 100
p0 90.4 ± 71.59
pull
Entries 101
Mean 19.6
Std Dev 0

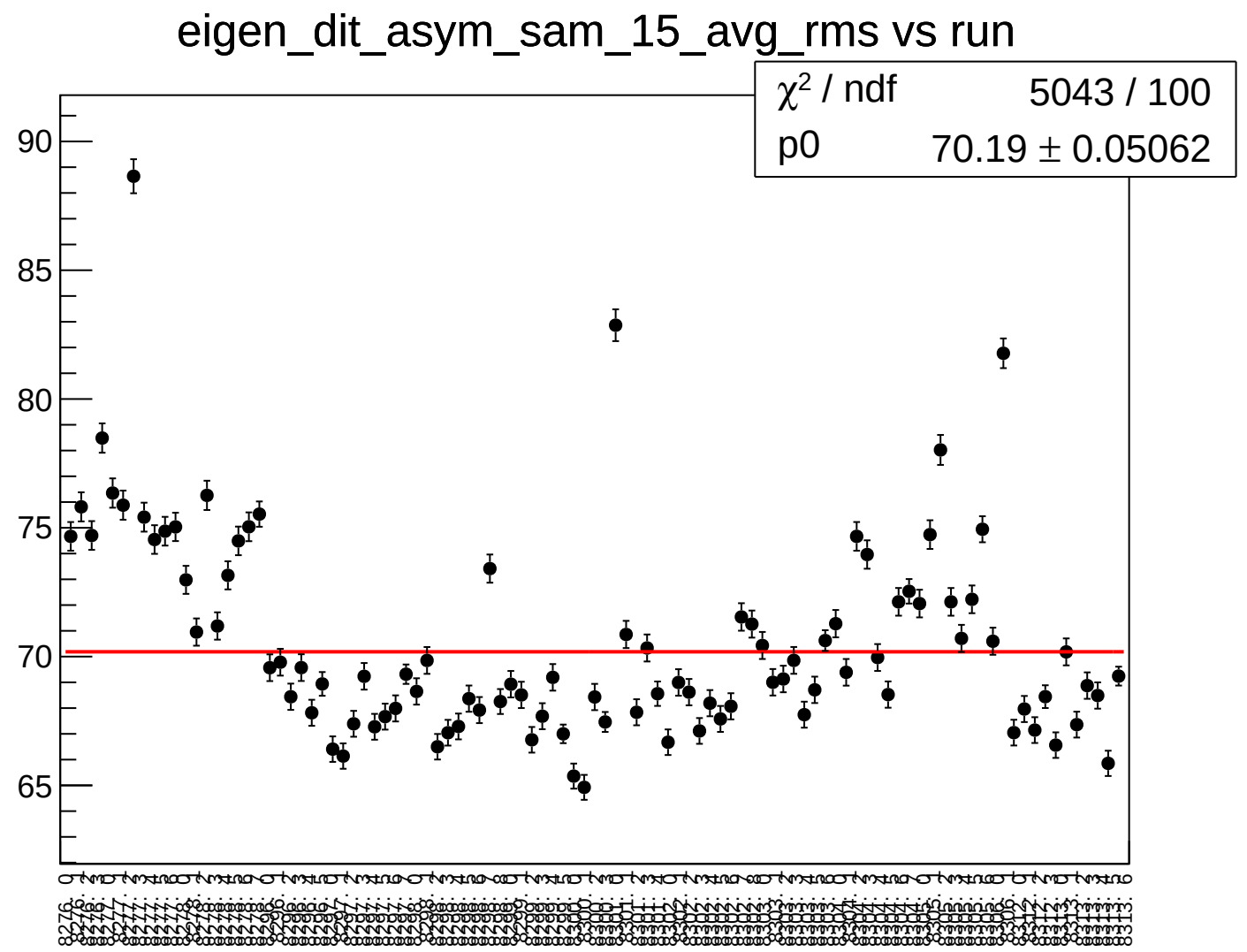

pull1D
Entries 101
Mean 0.01503
Std Dev 1.045

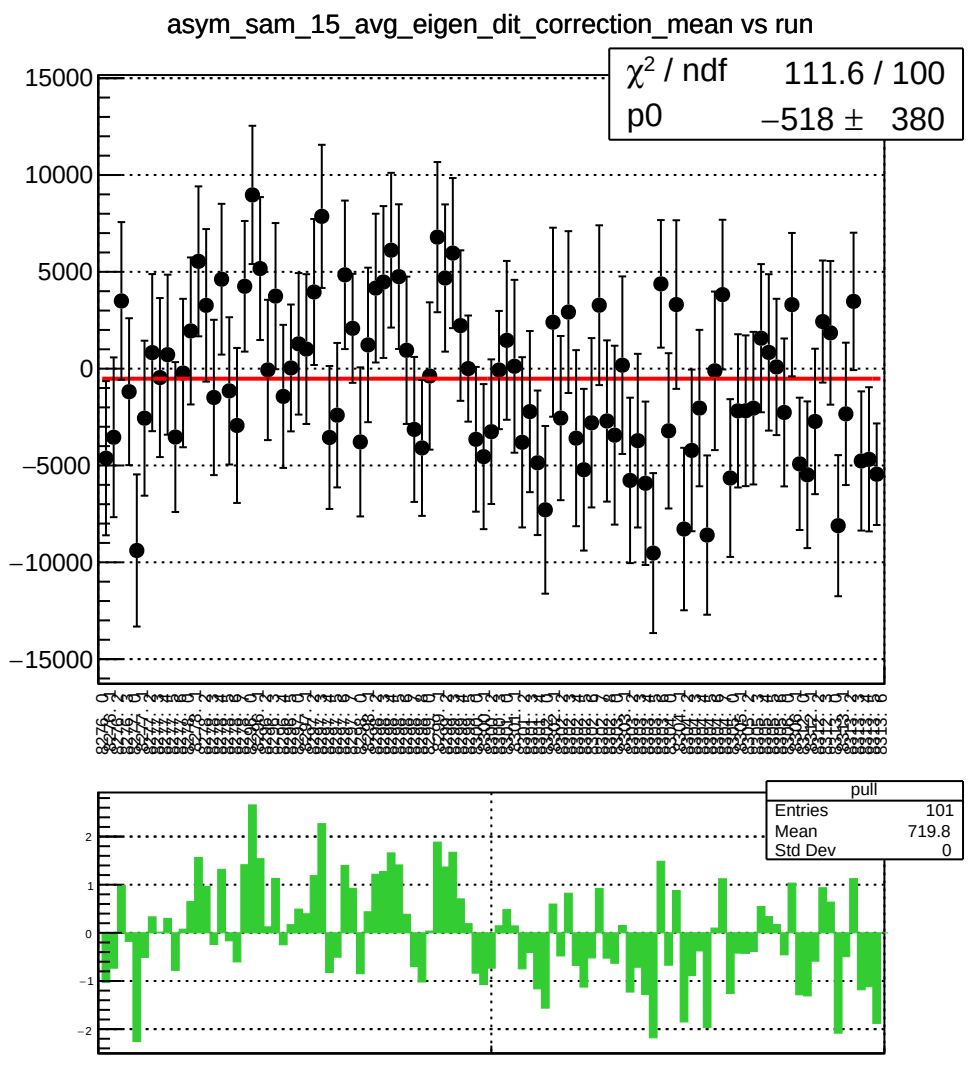

dit_asym_sam_15_avg_rms vs run
χ² / ndf 5044 / 100
p0 70.19 ± 0.05062
90
85
80
75
70
65

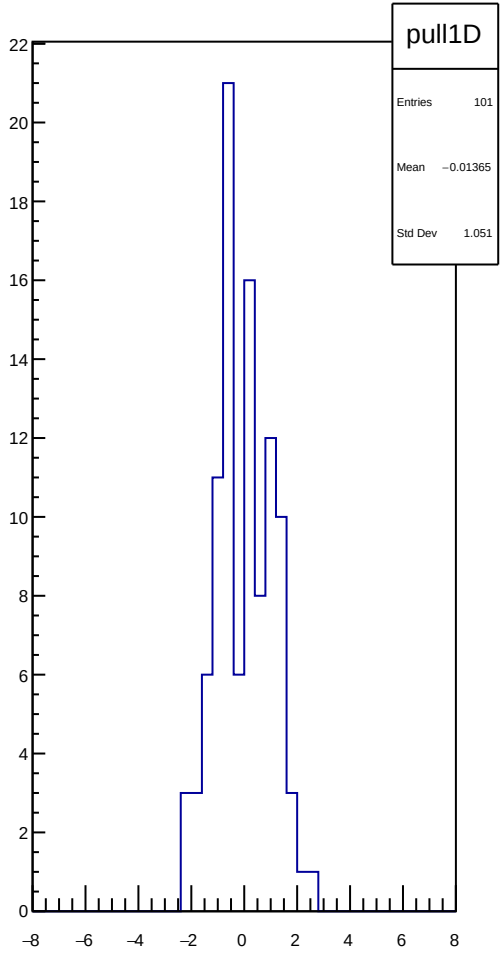

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 111.6 / 100
p0 −518 ± 379.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 101
Mean 719.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.01365
Std Dev 1.051
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

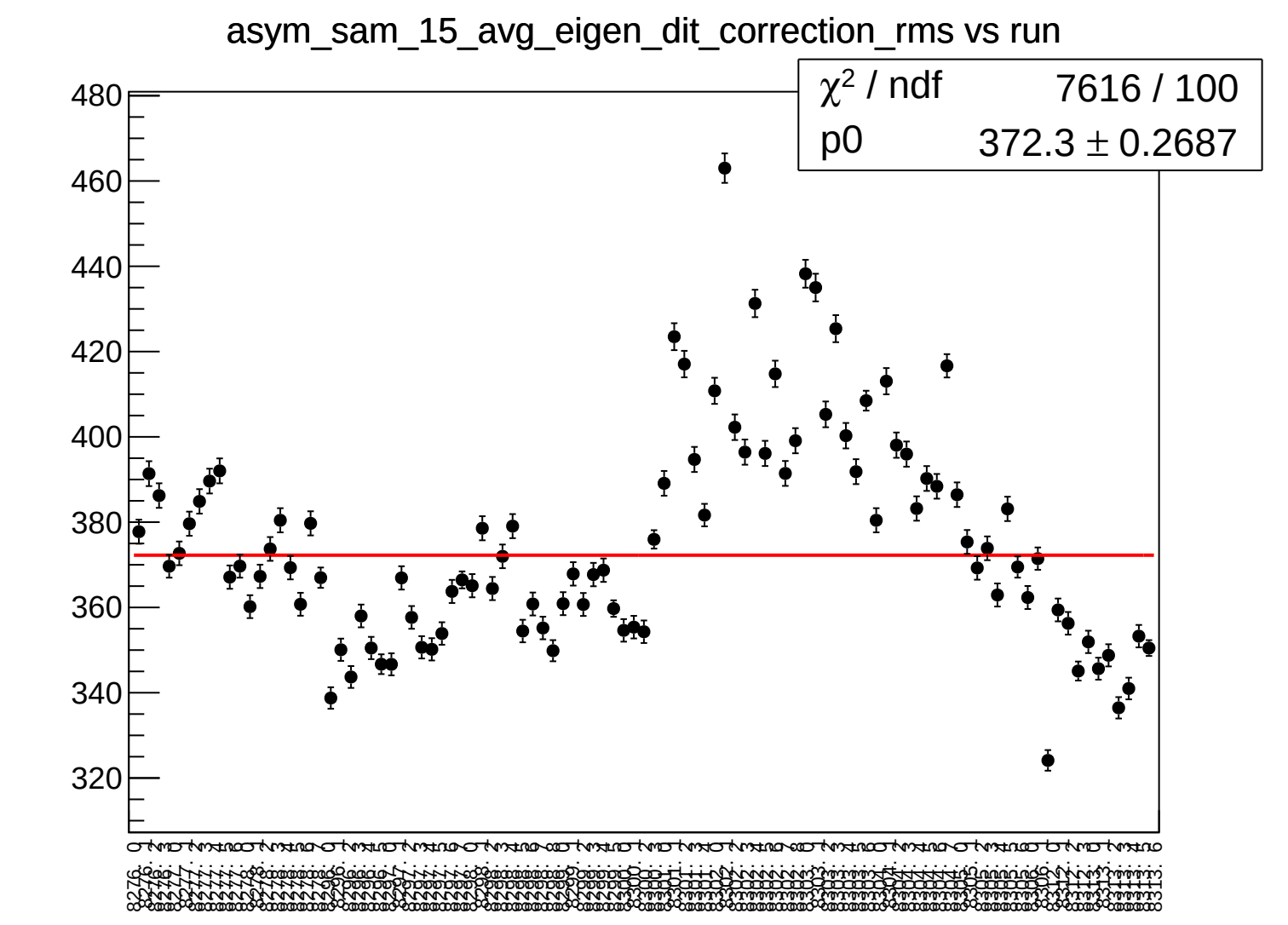

asym_sam_15_avg_dit_correction_rms vs run
χ² / ndf 7616 / 100
p0 372.3 ± 0.2687
480
460
440
420
400
380
360
340
320

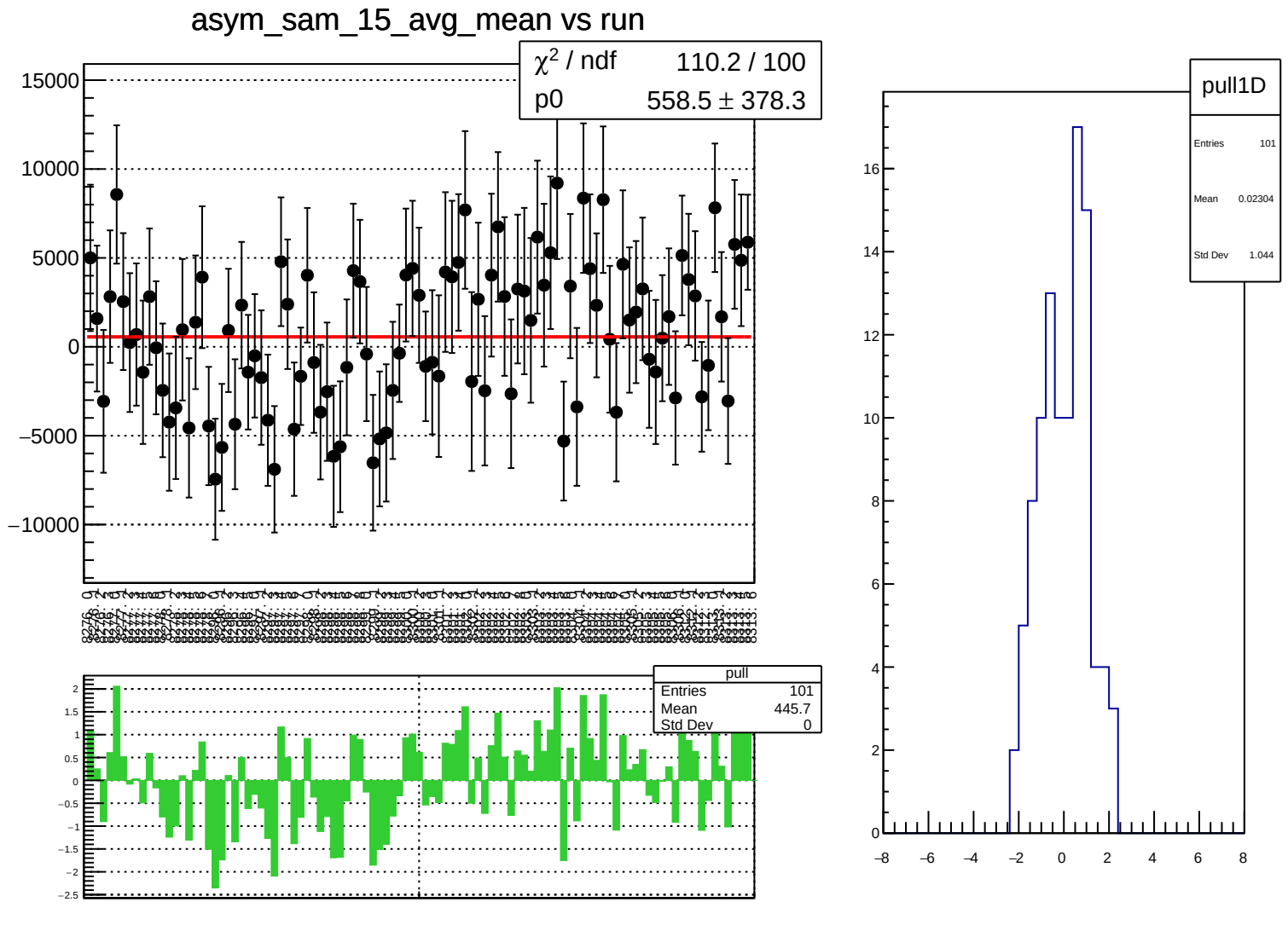

eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 110.3 / 100
p0 90.39 ± 71.59
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 101
Mean 19.57
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.01504
Std Dev 1.045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

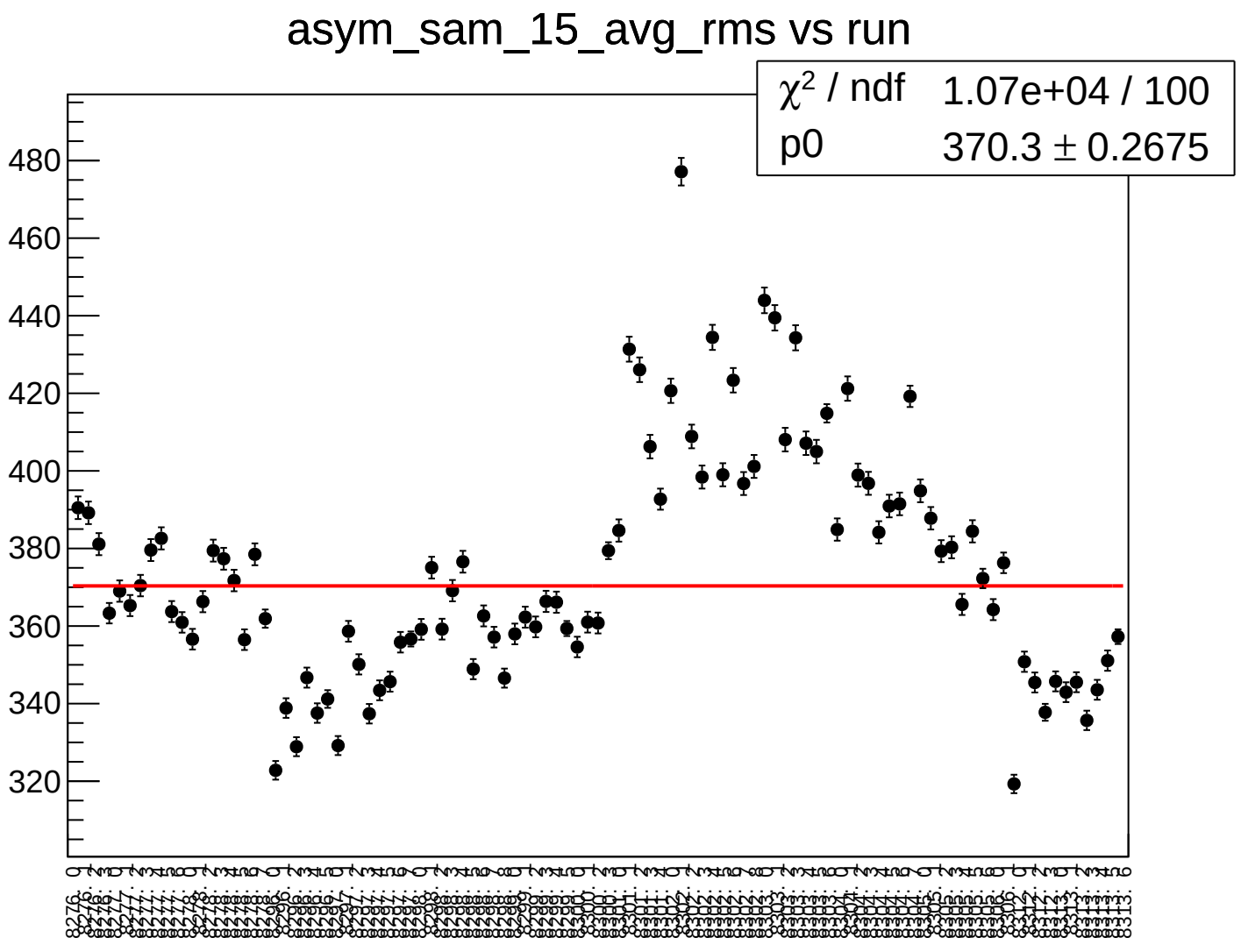

eigen_dit_asym_sam_15_avg_rms vs run
χ² / ndf 5043 / 100
p0 70.19 ± 0.05062
90
85
80
75
70
65

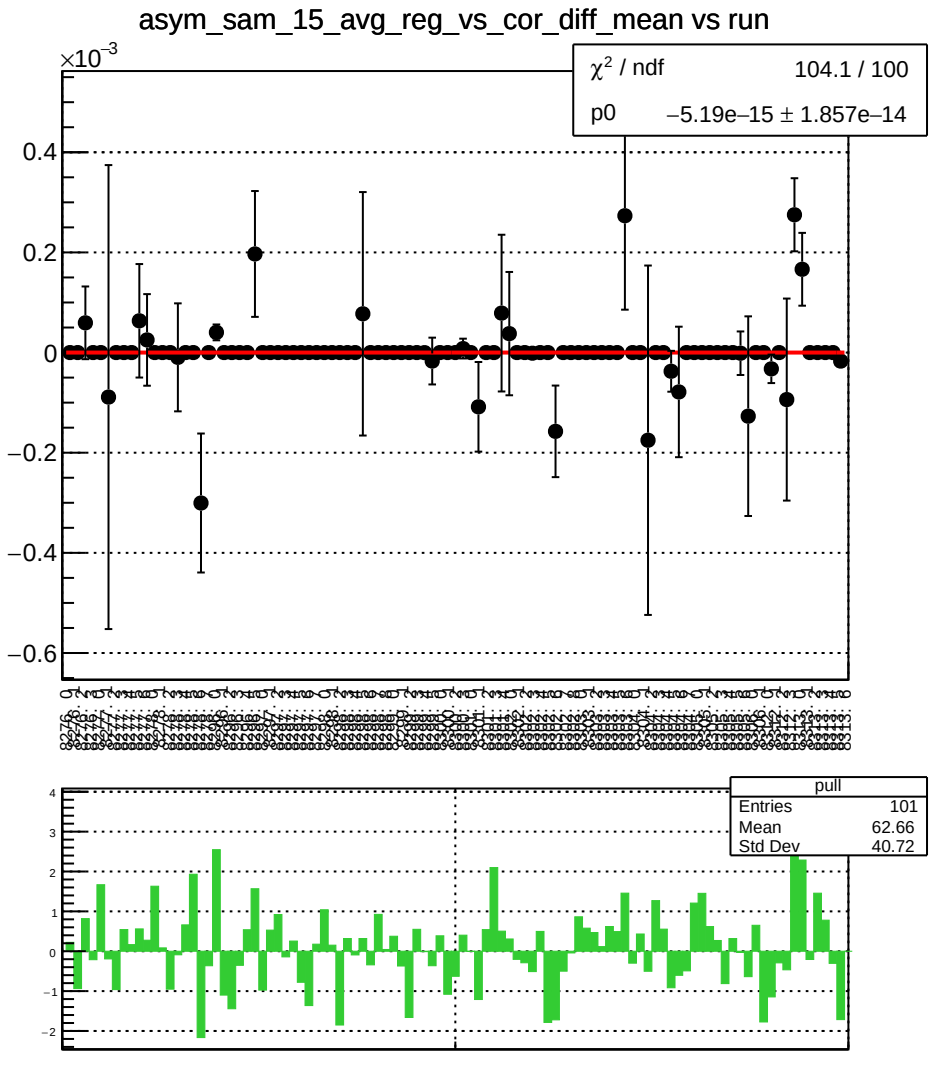

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 111.6 / 100
p0 −518 ± 380
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 101
Mean 719.8
Std Dev 0
2
1
0
−1
−2

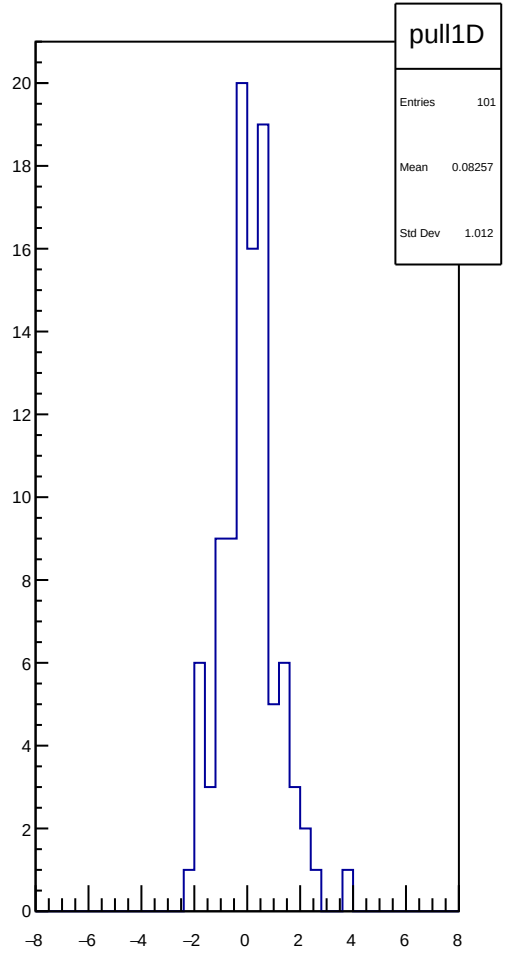

pull1D
Entries 101
Mean −0.01365
Std Dev 1.051
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

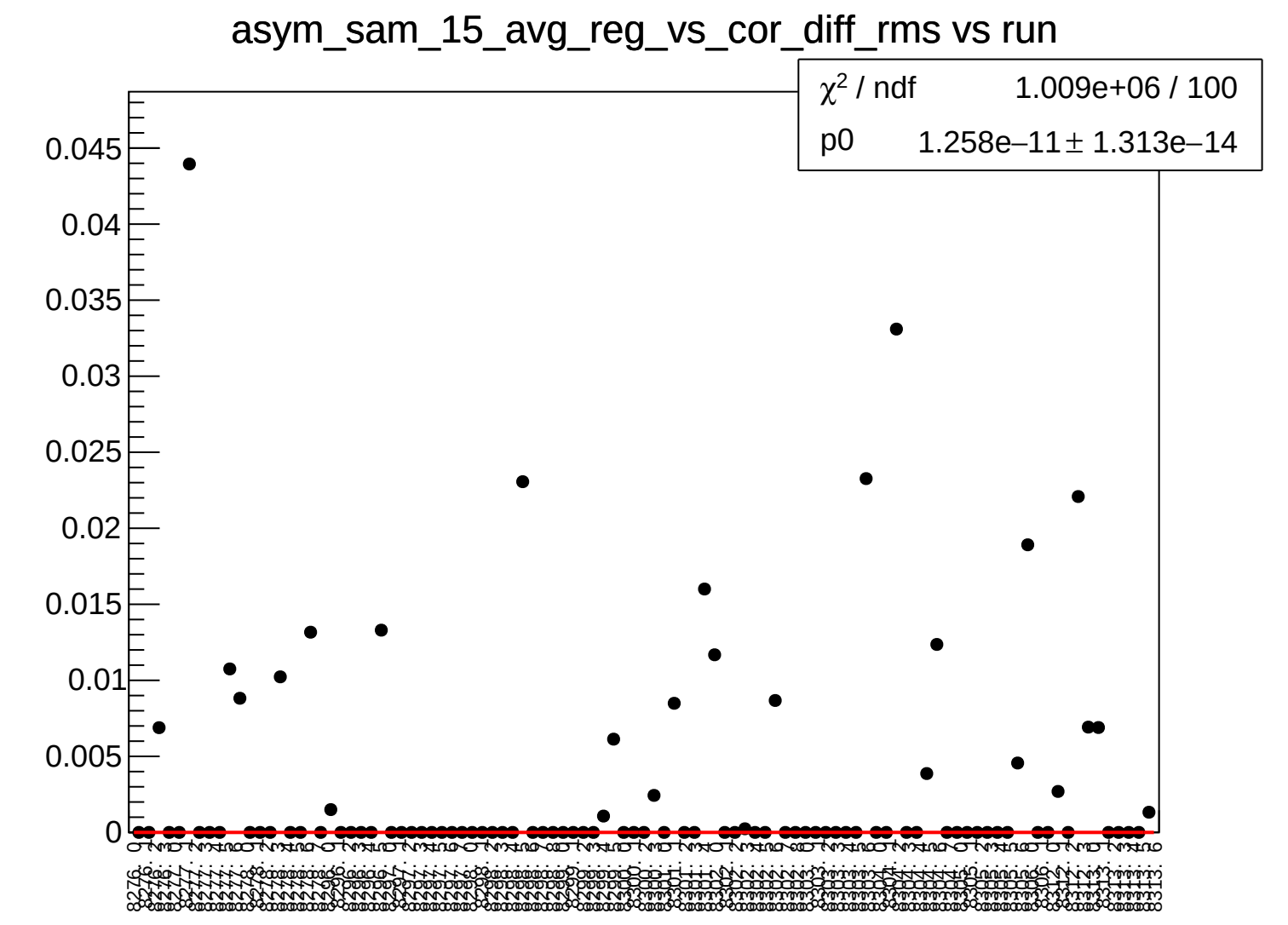

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ² / ndf 7616 / 100
p0 372.3 ± 0.2687
480
460
440
420
400
380
360
340
320

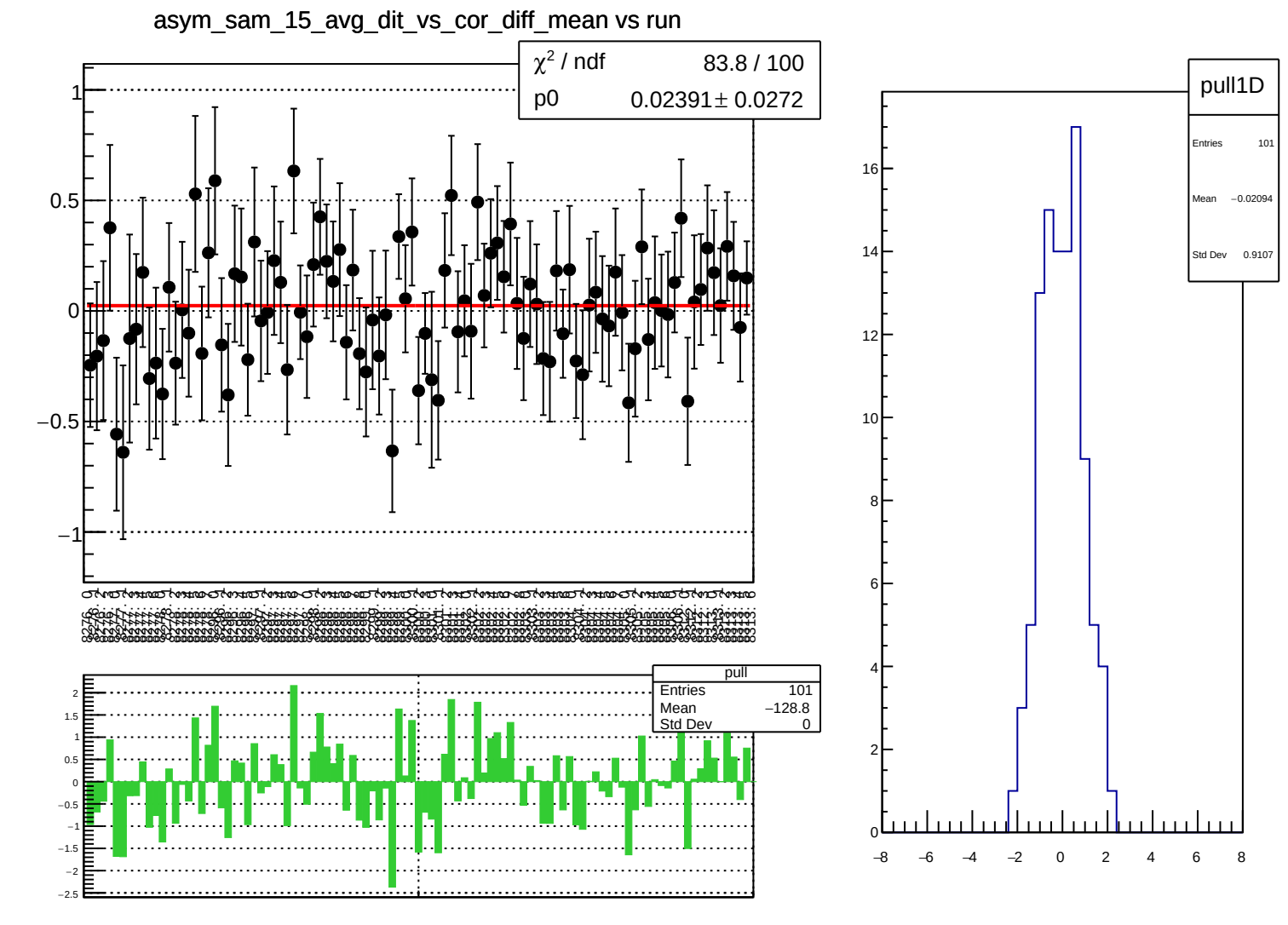

asym_sam_15_avg_mean vs run
χ² / ndf 110.2 / 100
p0 558.5 ± 378.3
15000
10000
5000
0
−5000
−10000
pull
Entries 101
Mean 445.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 101
Mean 0.02304
Std Dev 1.044
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

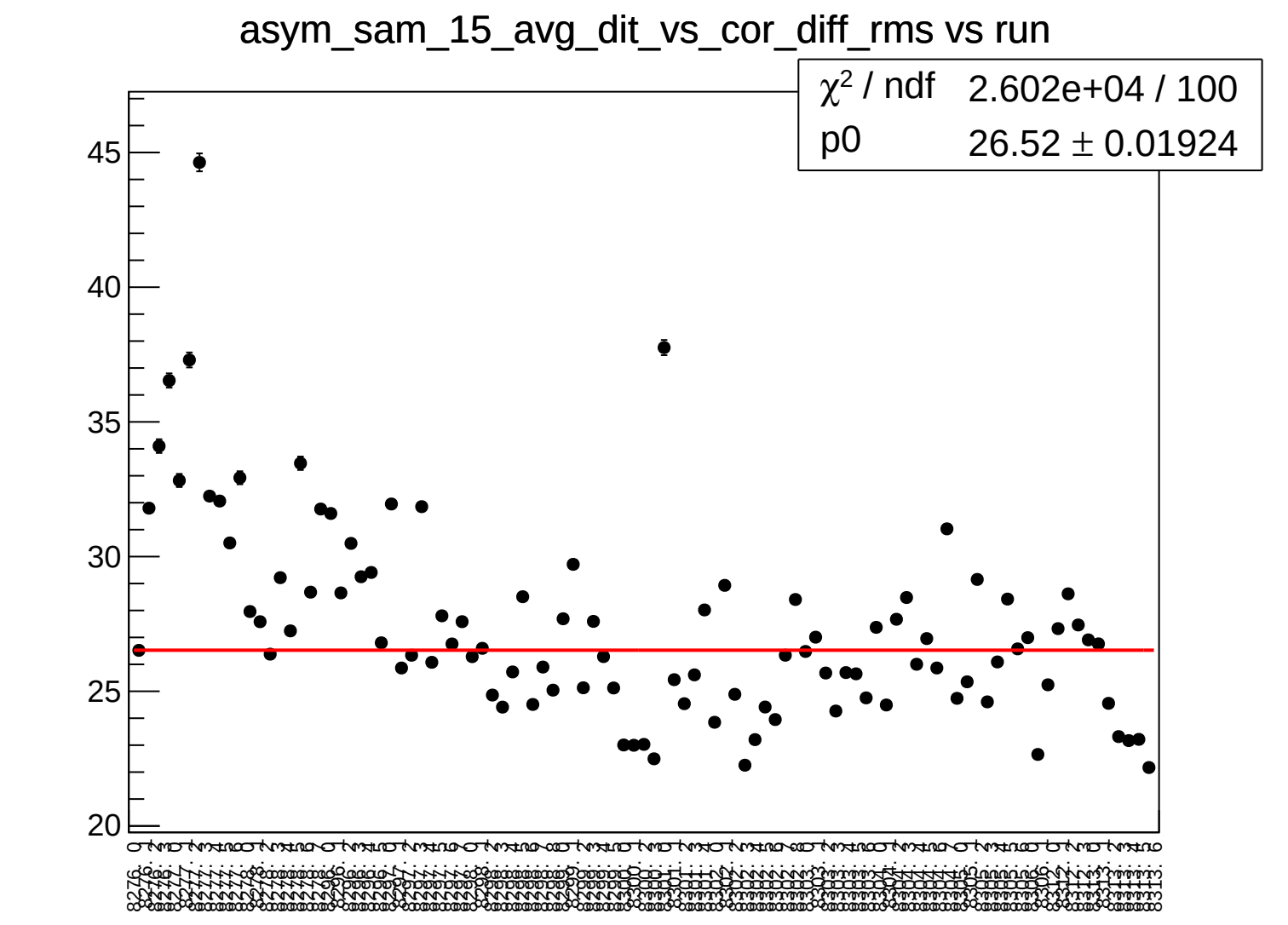

asym_sam_15_avg_rms vs run
χ² / ndf 1.07e+04 / 100
p0 370.3 ± 0.2675
480
460
440
420
400
380
360
340
320

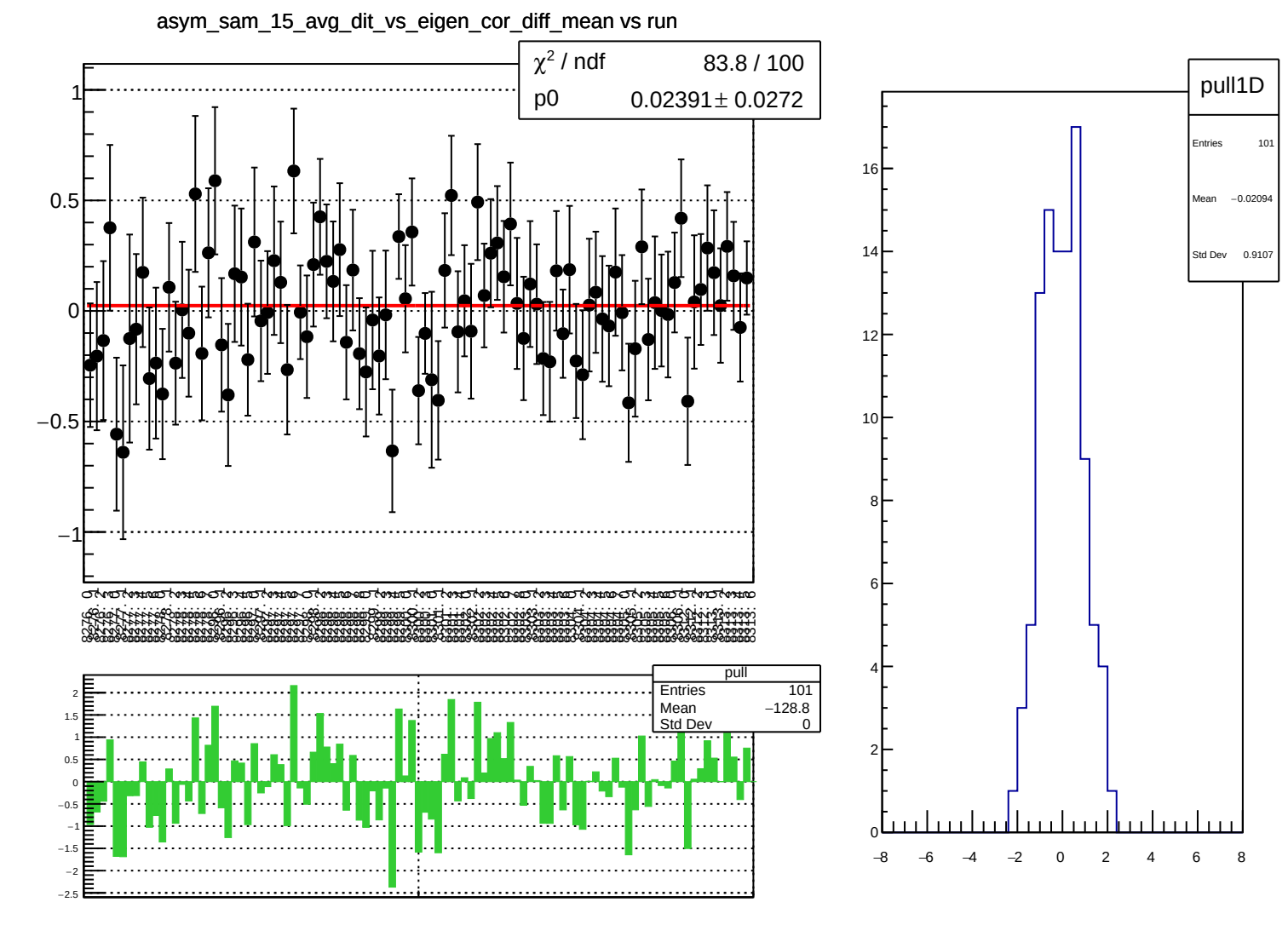

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 104.1 / 100
p0 −5.19e−15 ± 1.857e−14
pull
Entries 101
Mean 62.66
Std Dev 40.72

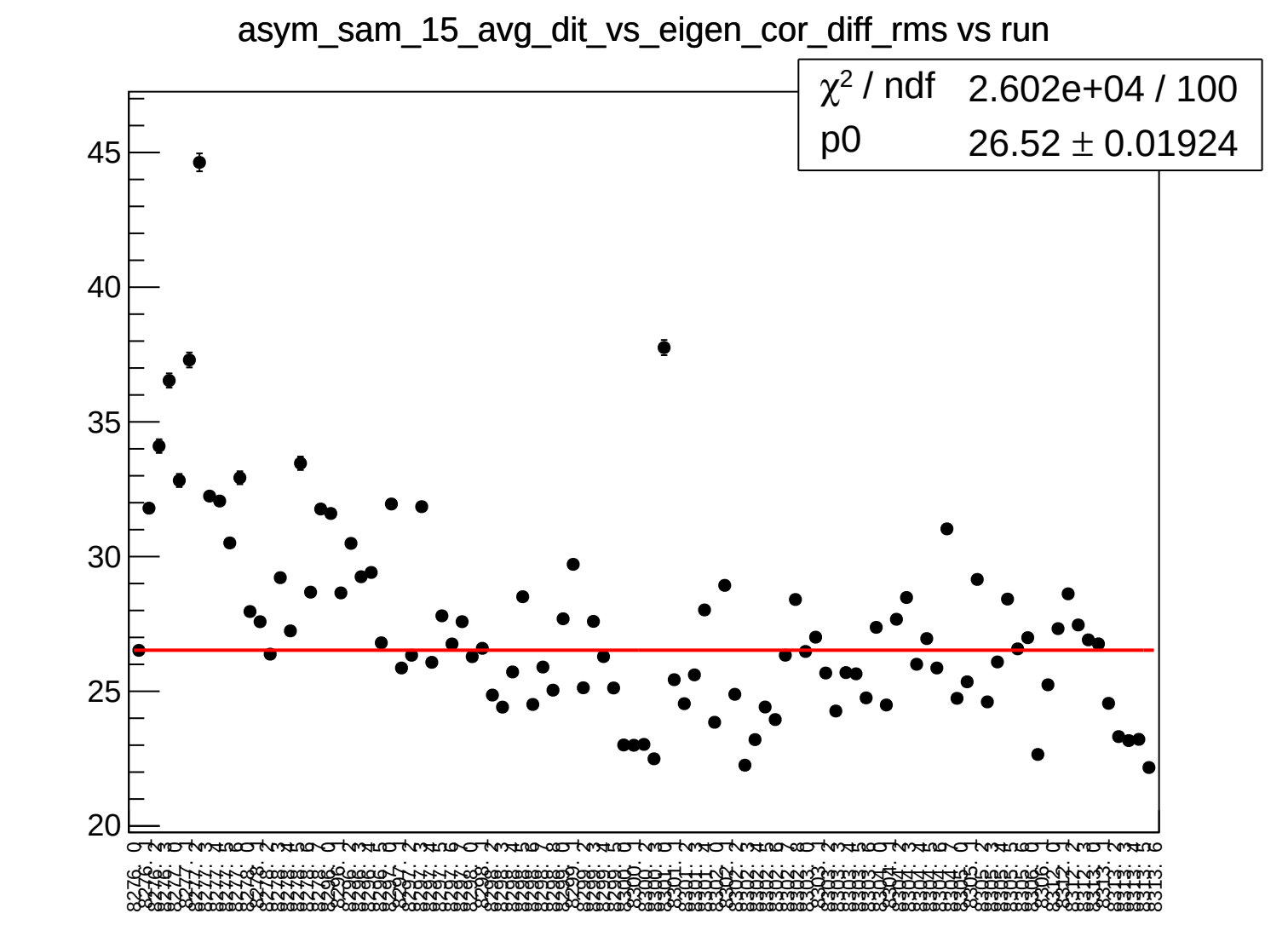

pull1D
Entries 101
Mean 0.08257
Std Dev 1.012

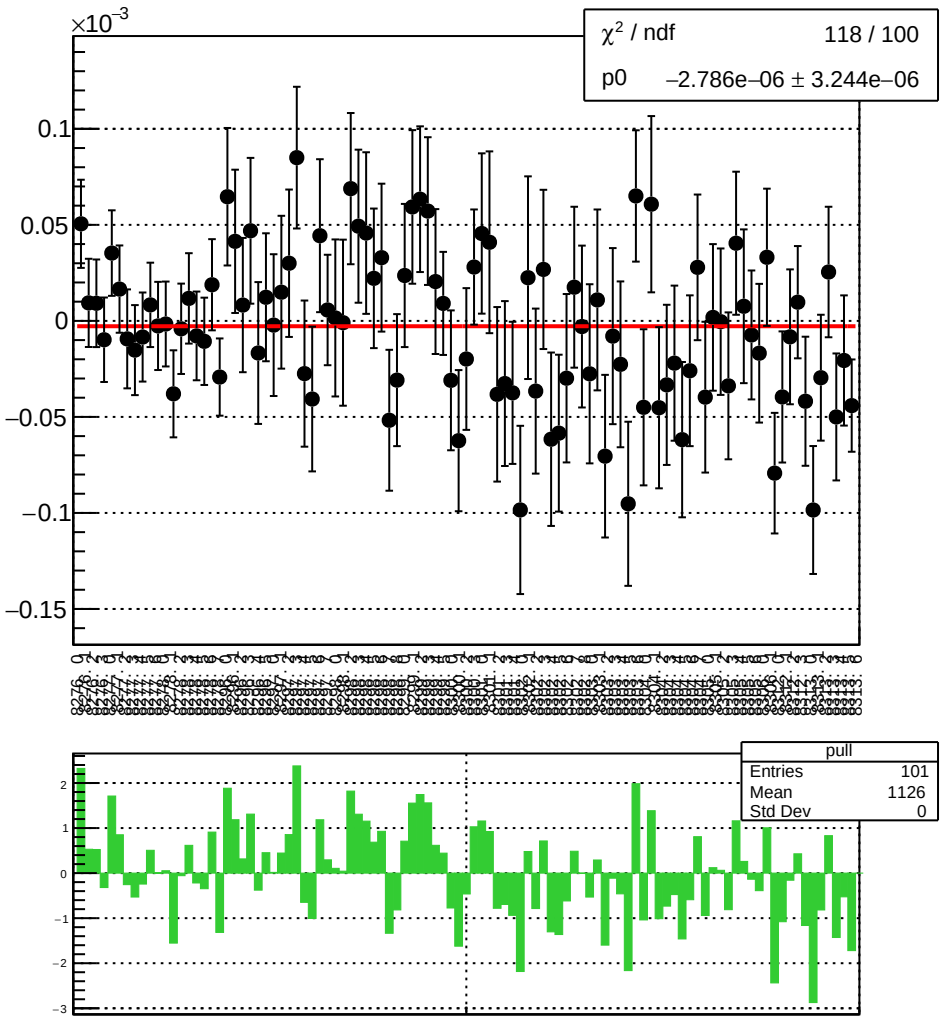

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.009e+06 / 100
p0 1.258e−11 ± 1.313e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

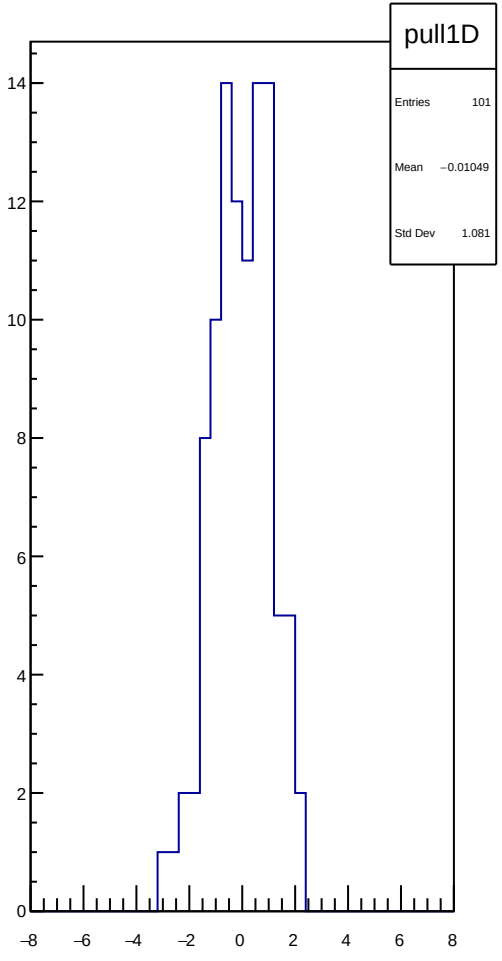

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 83.8 / 100
p0 0.02391 ± 0.0272
pull
Entries 101
Mean −128.8
Std Dev 0
pull1D
Entries 101
Mean −0.02094
Std Dev 0.9107

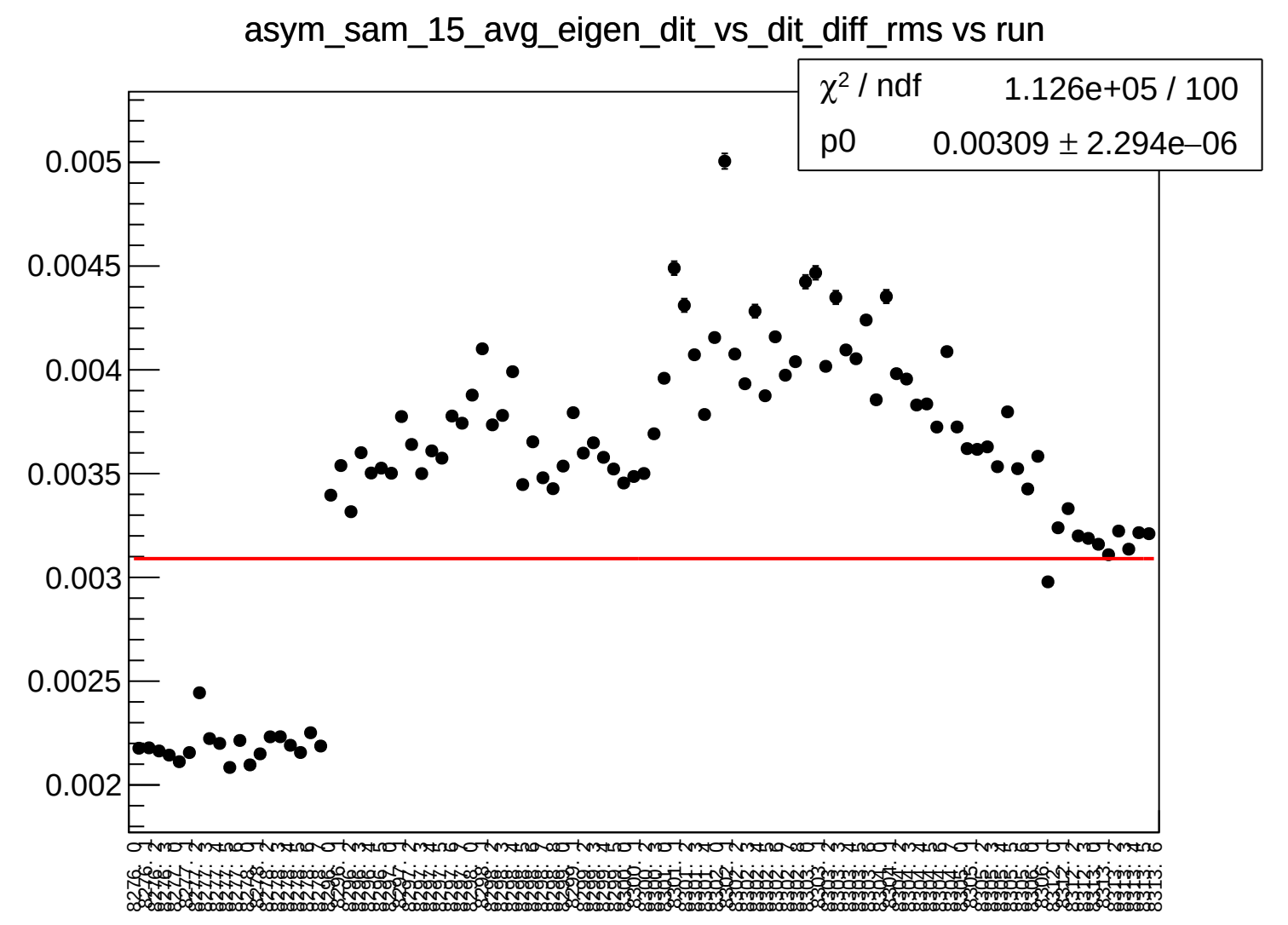

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.602e+04 / 100
p0 26.52 ± 0.01924
45
40
35
30
25
20

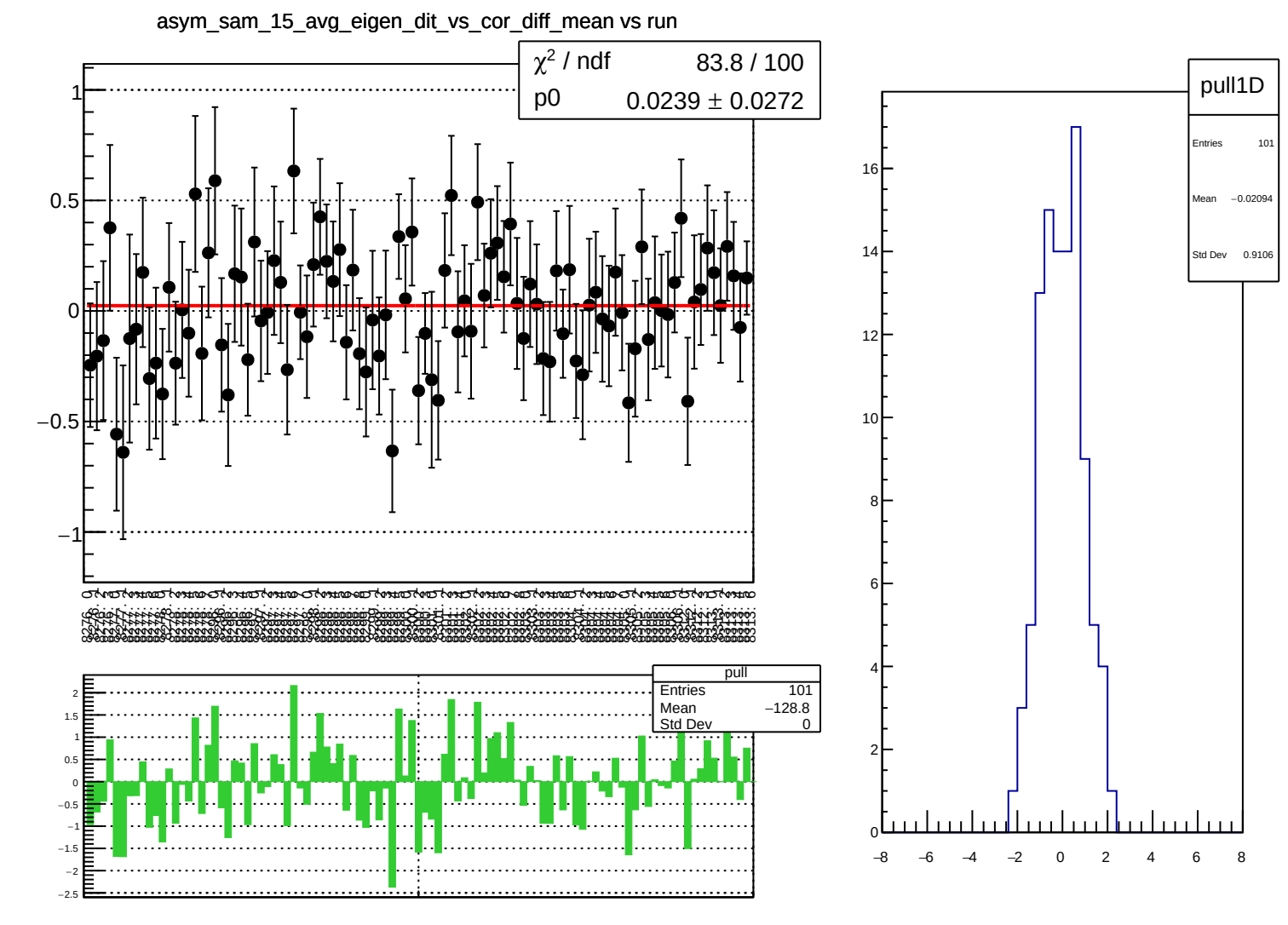

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.8 / 100
p0 0.02391 ± 0.0272
pull
Entries 101
Mean −128.8
Std Dev 0
pull1D
Entries 101
Mean −0.02094
Std Dev 0.9107

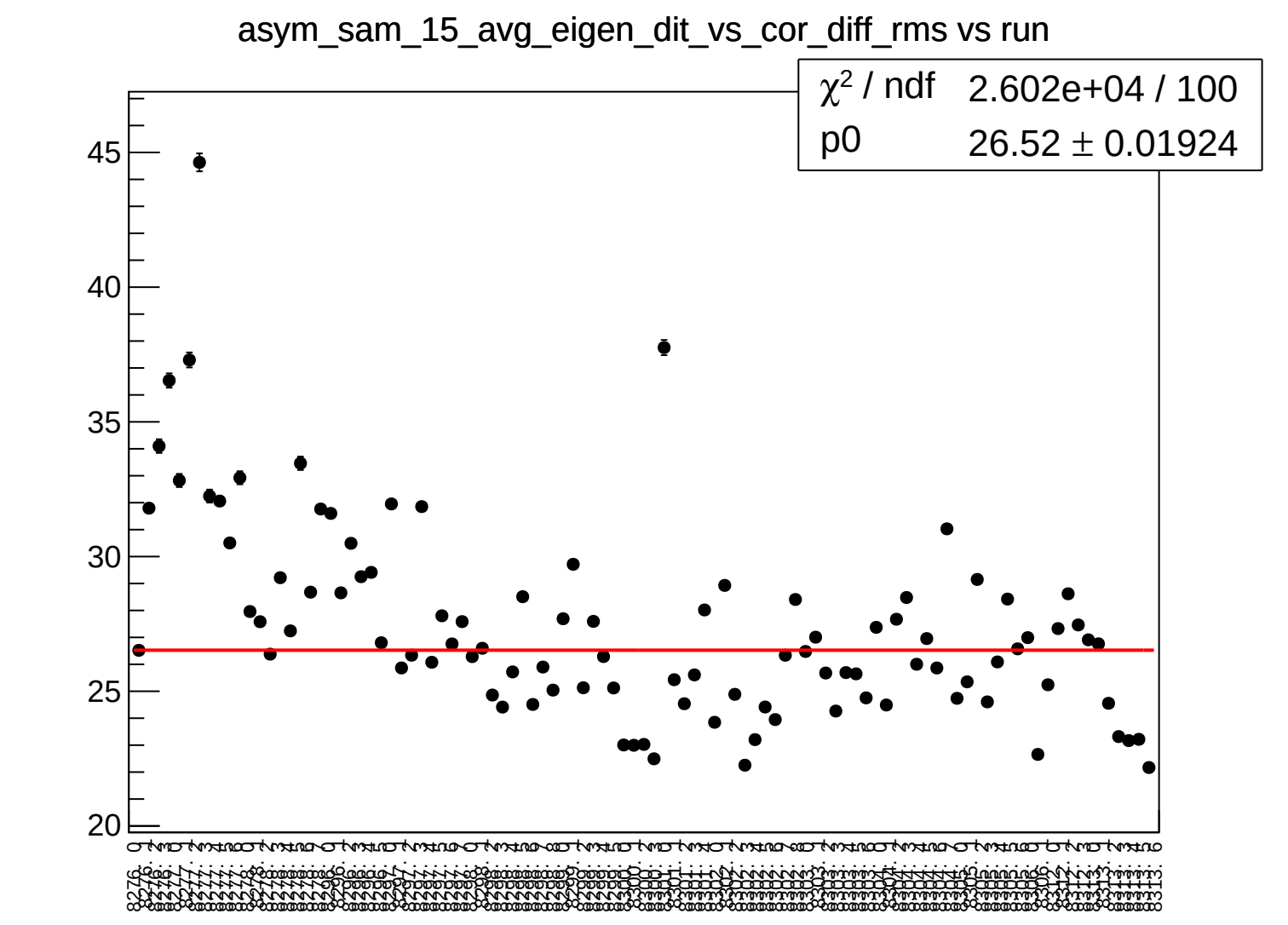

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.602e+04 / 100
p0 26.52 ± 0.01924
45
40
35
30
25
20

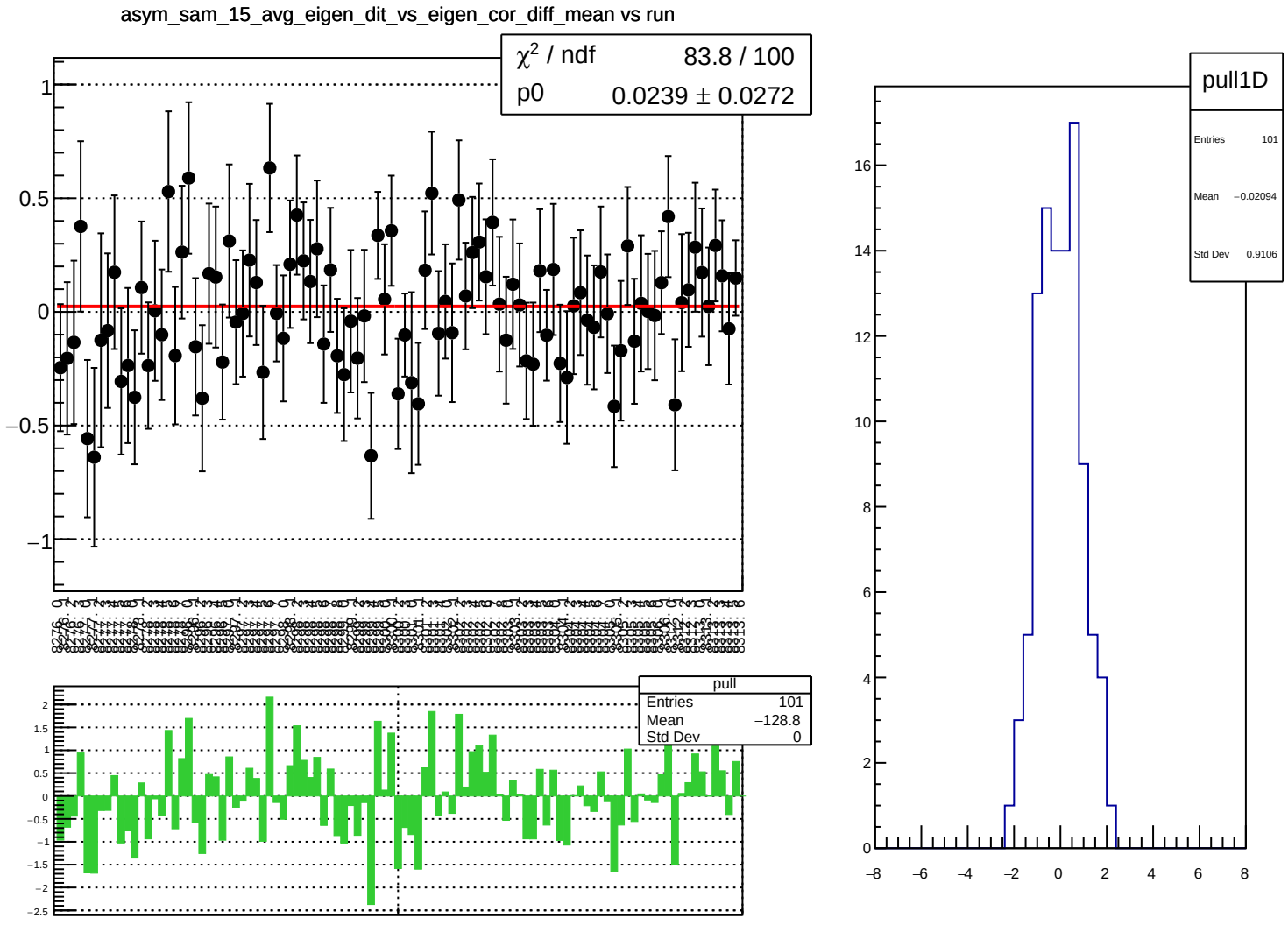

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 118 / 100
p0 −2.786e−06 ± 3.244e−06
pull
Entries 101
Mean 1126
Std Dev 0

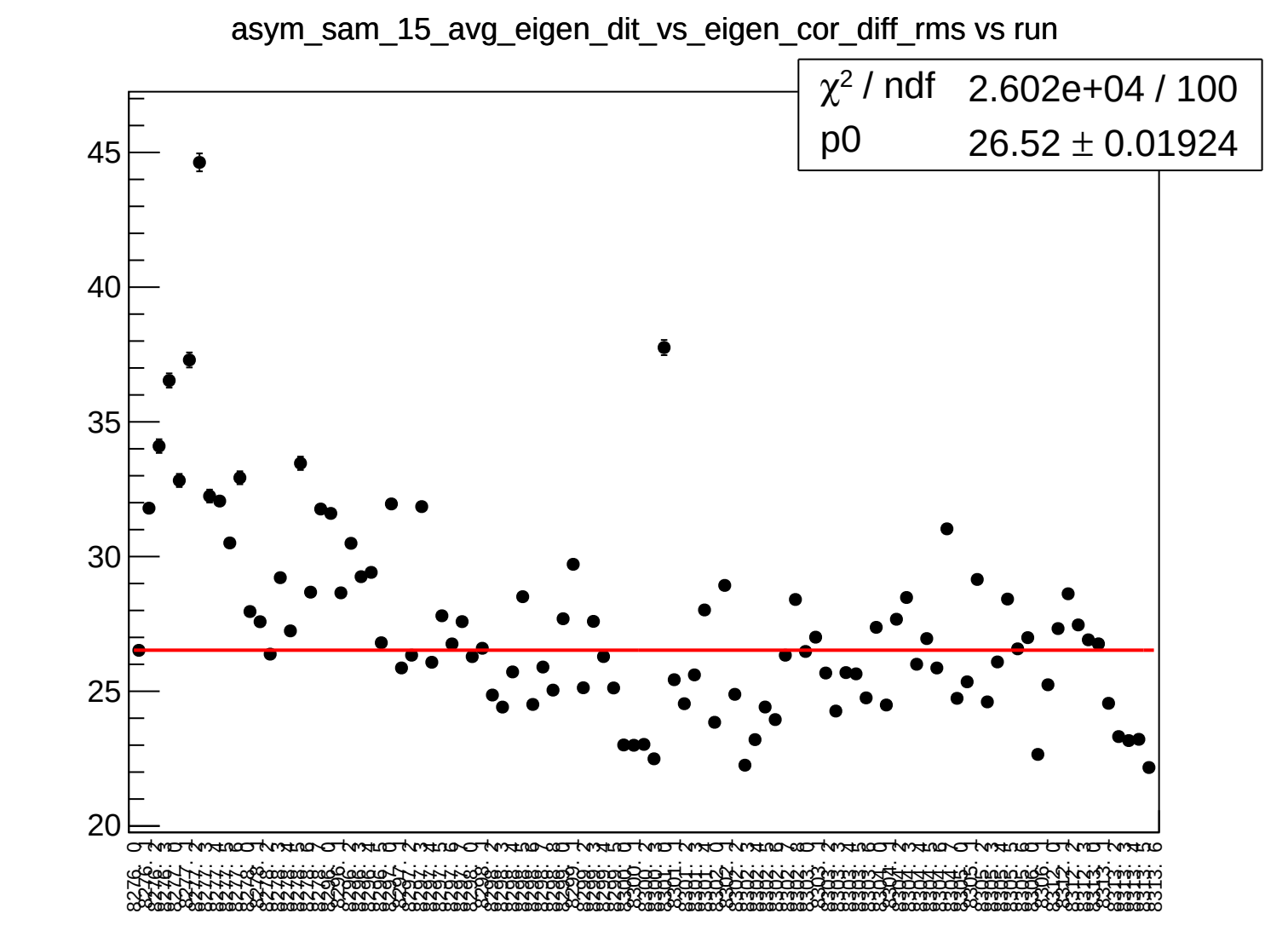

pull1D
Entries 101
Mean −0.01049
Std Dev 1.081

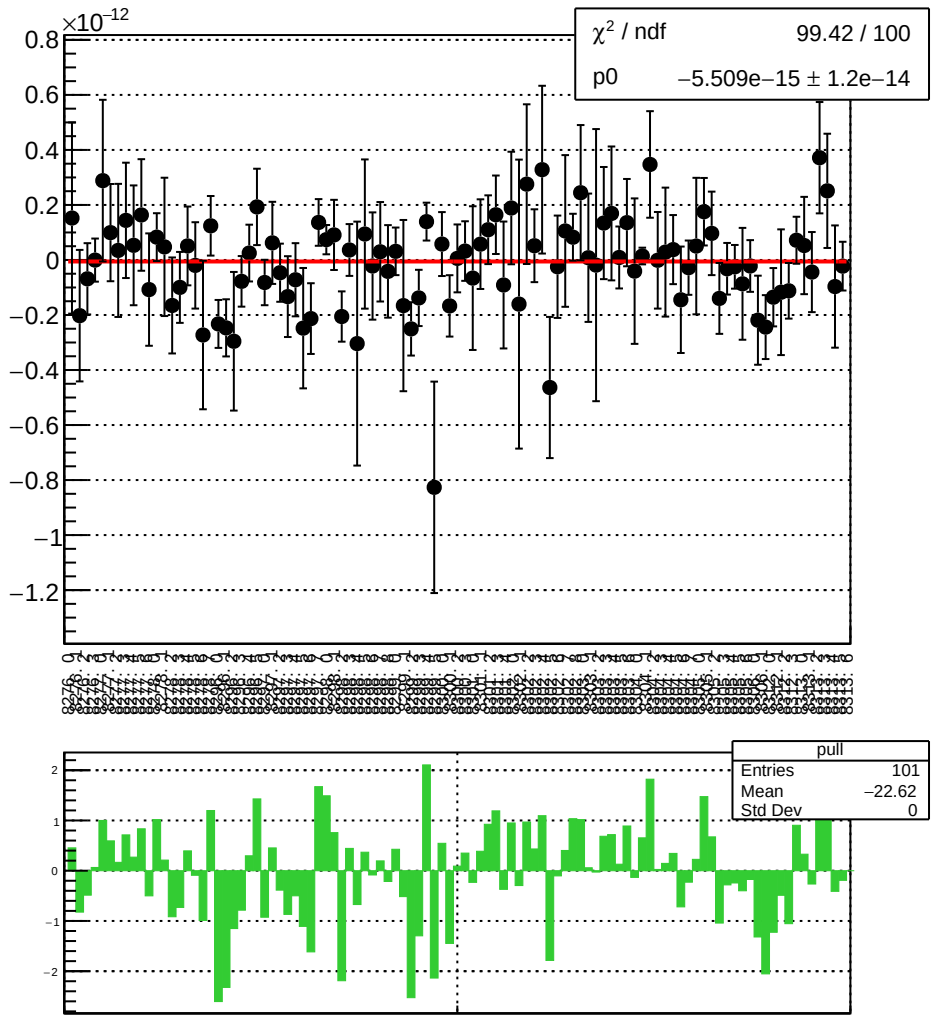

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.126e+05 / 100
p0 0.00309 ± 2.294e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002

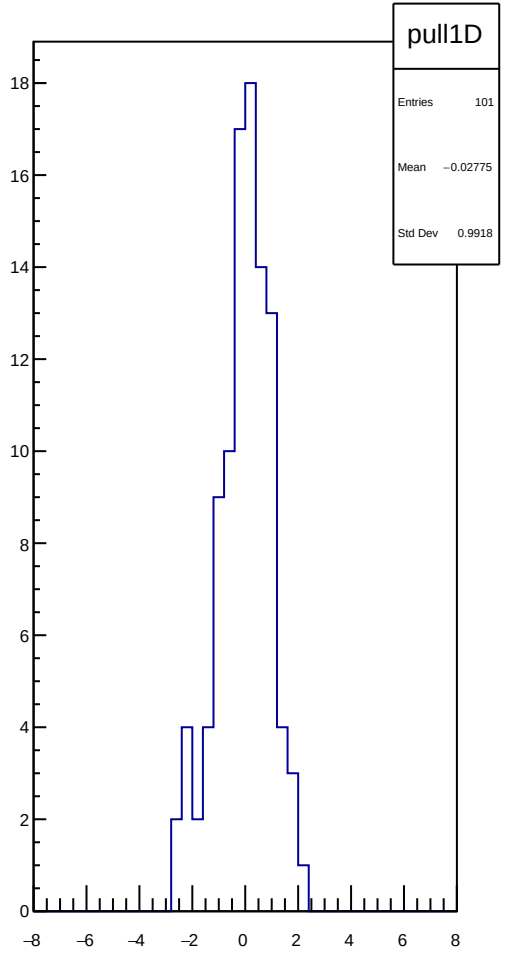

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.8 / 100
p0 0.0239 ± 0.0272
pull
Entries 101
Mean −128.8
Std Dev 0
pull1D
Entries 101
Mean −0.02094
Std Dev 0.9106

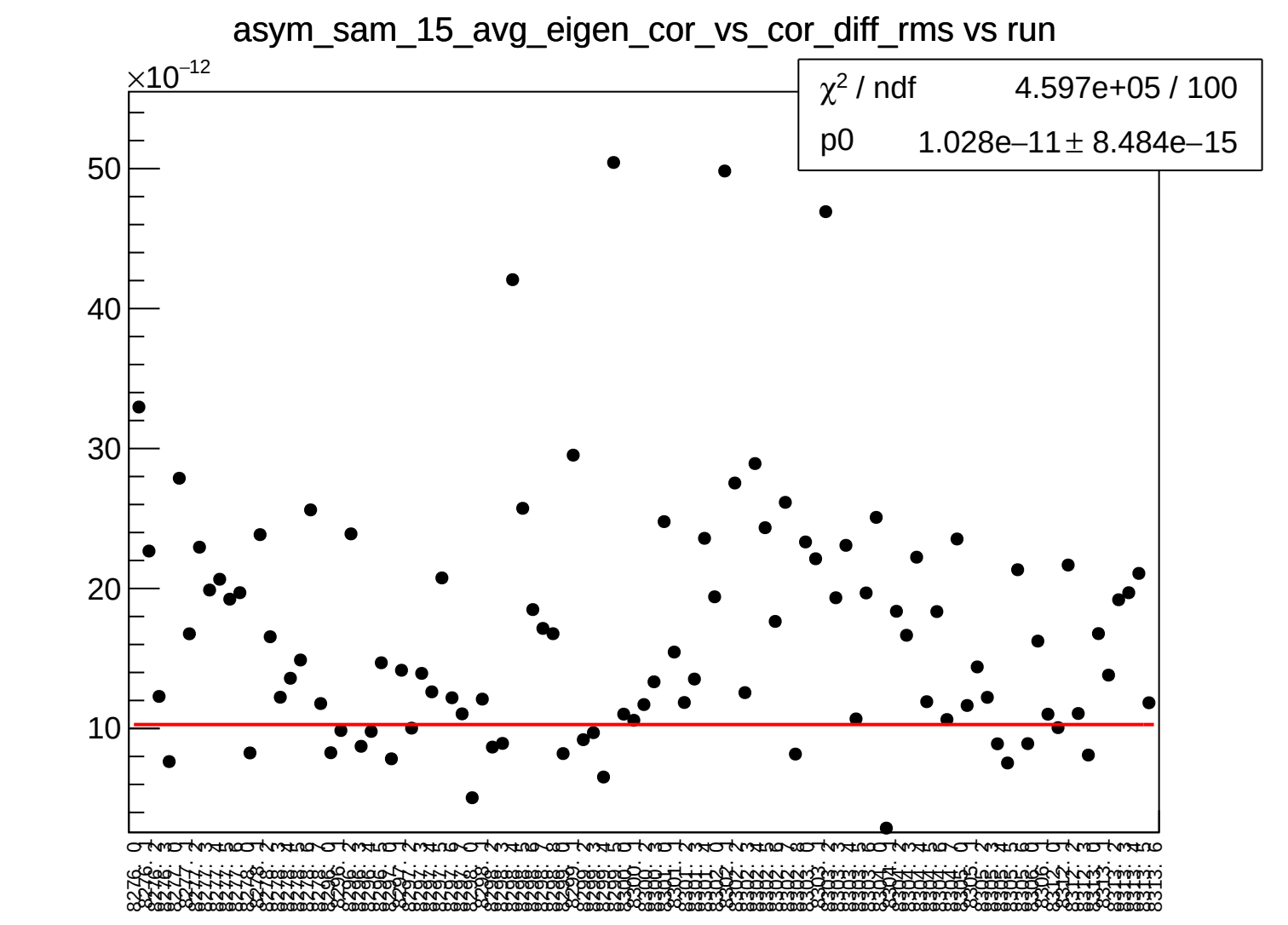

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.602e+04 / 100
p0 26.52 ± 0.01924
45
40
35
30
25
20

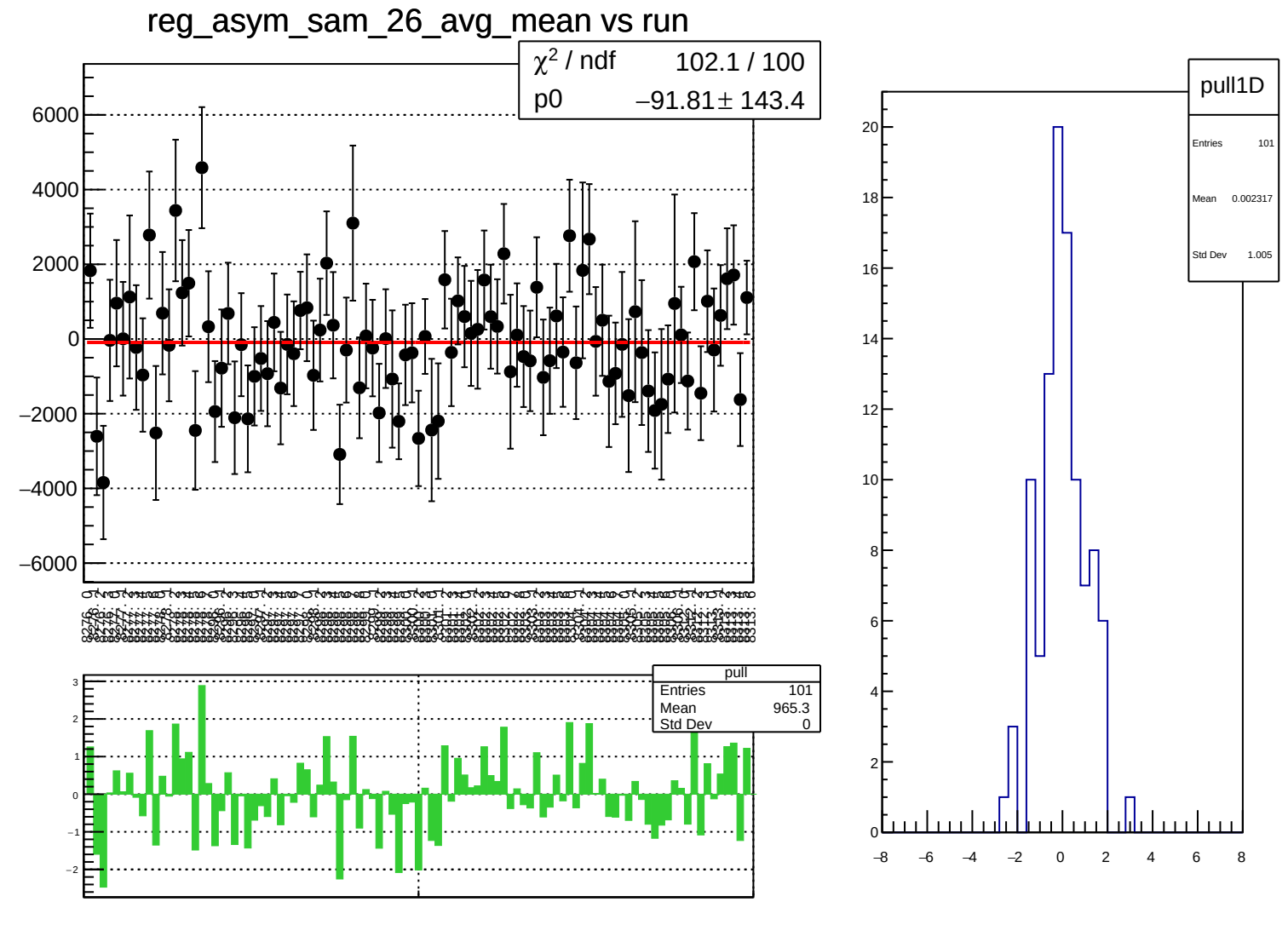

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.8 / 100
p0 0.0239 ± 0.0272
pull
Entries 101
Mean −128.8
Std Dev 0
pull1D
Entries 101
Mean −0.02094
Std Dev 0.9106

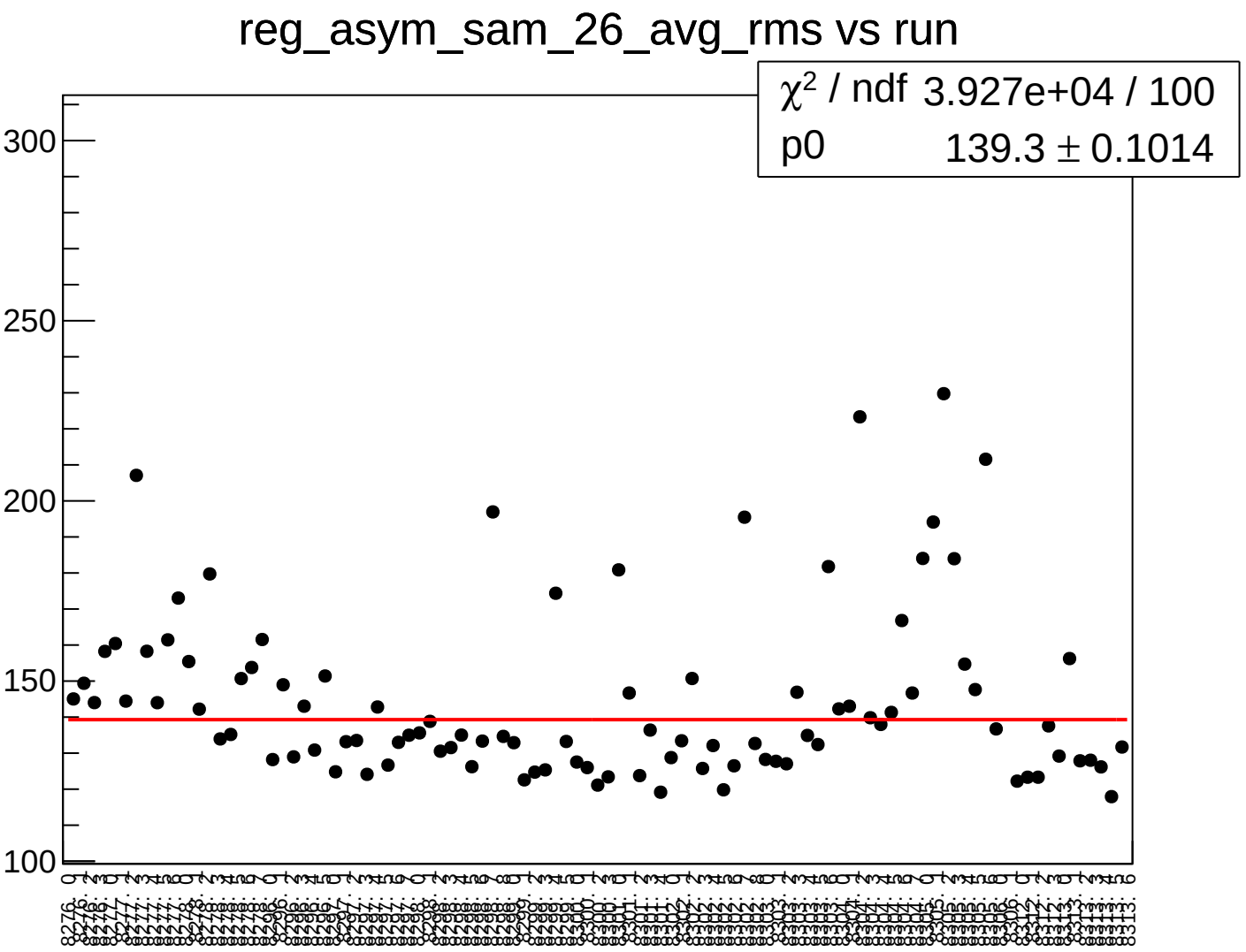

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.602e+04 / 100
p0 26.52 ± 0.01924
45
40
35
30
25
20

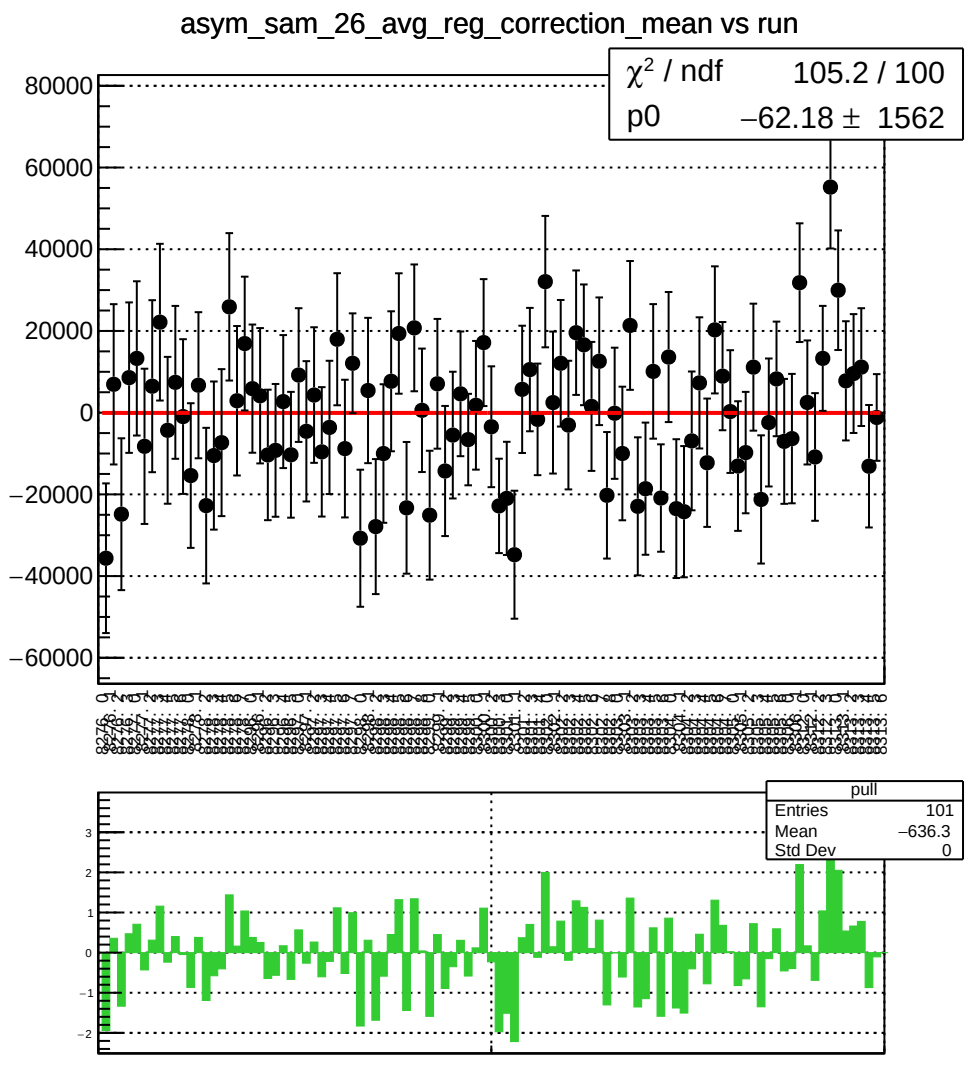

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.42 / 100
p0 −5.509e−15 ± 1.2e−14
pull
Entries 101
Mean −22.62
Std Dev 0

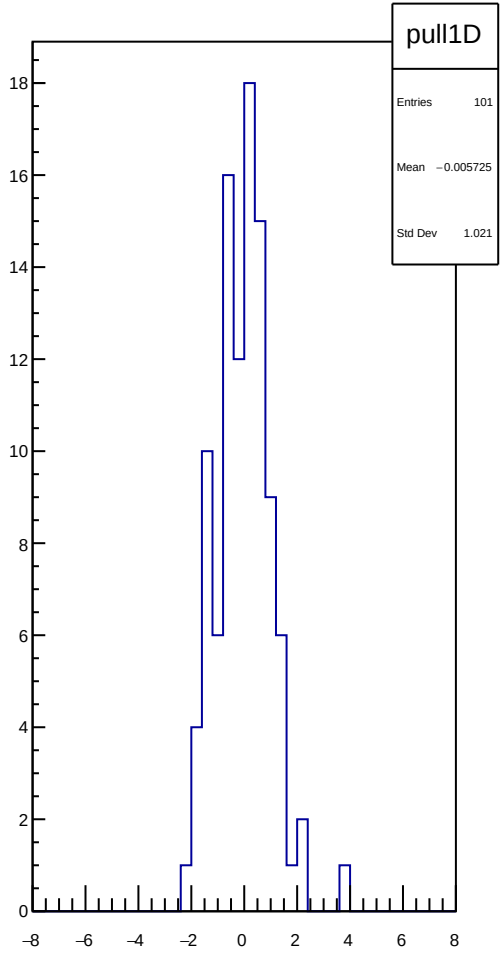

pull1D
Entries 101
Mean −0.02775
Std Dev 0.9918

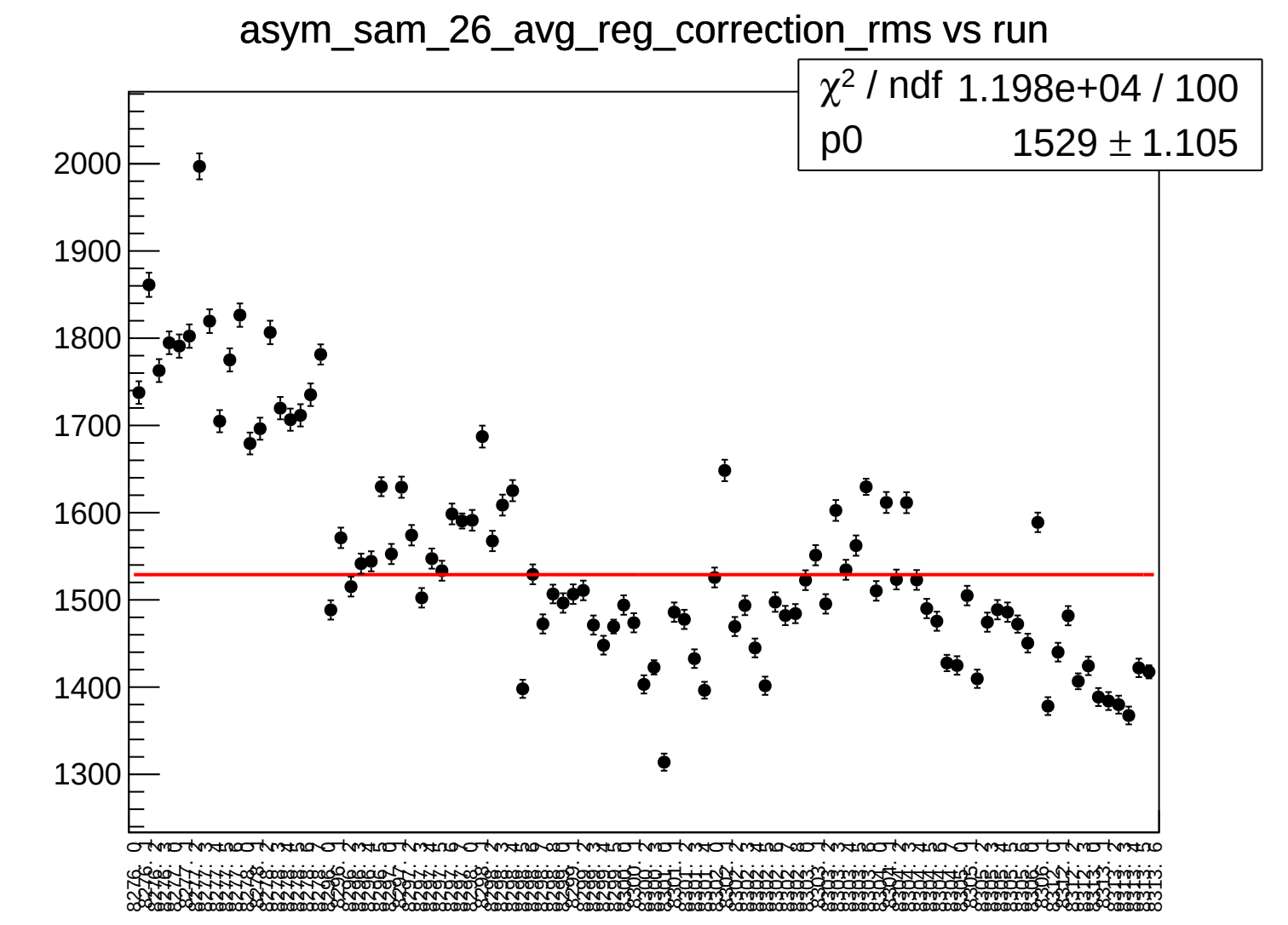

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.597e+05 / 100
p0 1.028e−11 ± 8.484e−15
50
40
30
20
10

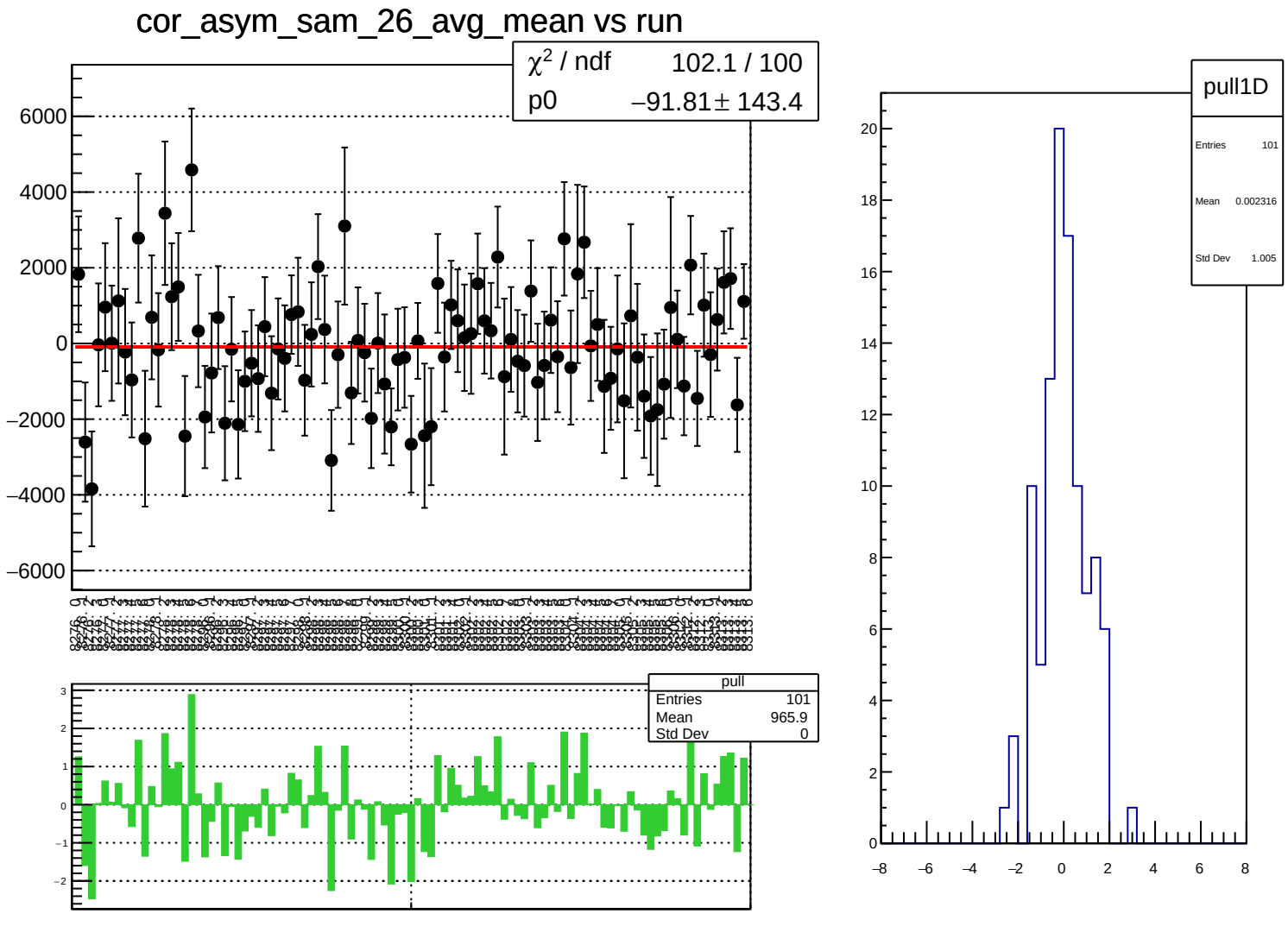

reg_asym_sam_26_avg_mean vs run
χ² / ndf 102.1 / 100
p0 −91.81 ± 143.4
pull
Entries 101
Mean 965.3
Std Dev 0
pull1D
Entries 101
Mean 0.002317
Std Dev 1.005

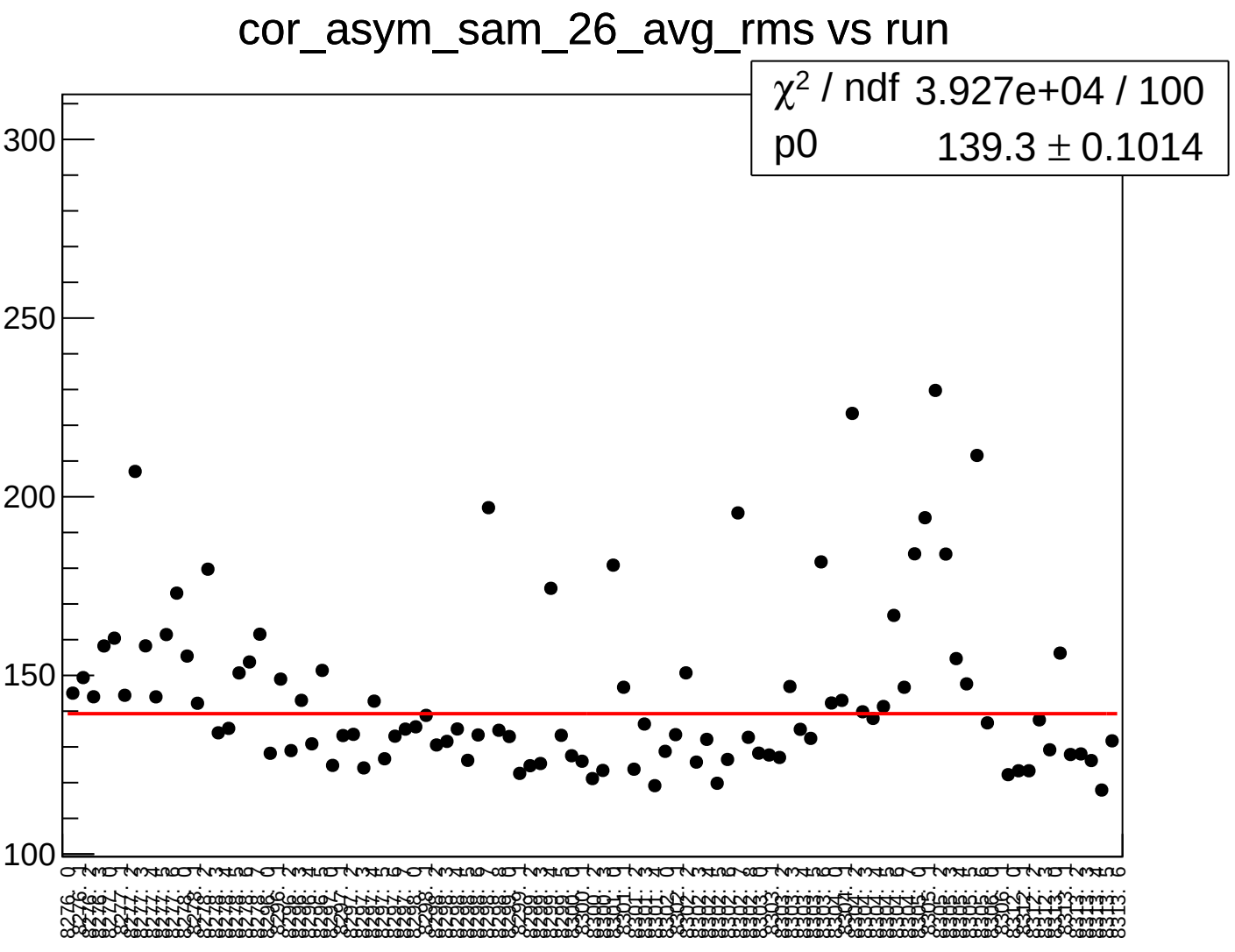

reg_asym_sam_26_avg_rms vs run
χ² / ndf 3.927e+04 / 100
p0 139.3 ± 0.1014
300
250
200
150
100

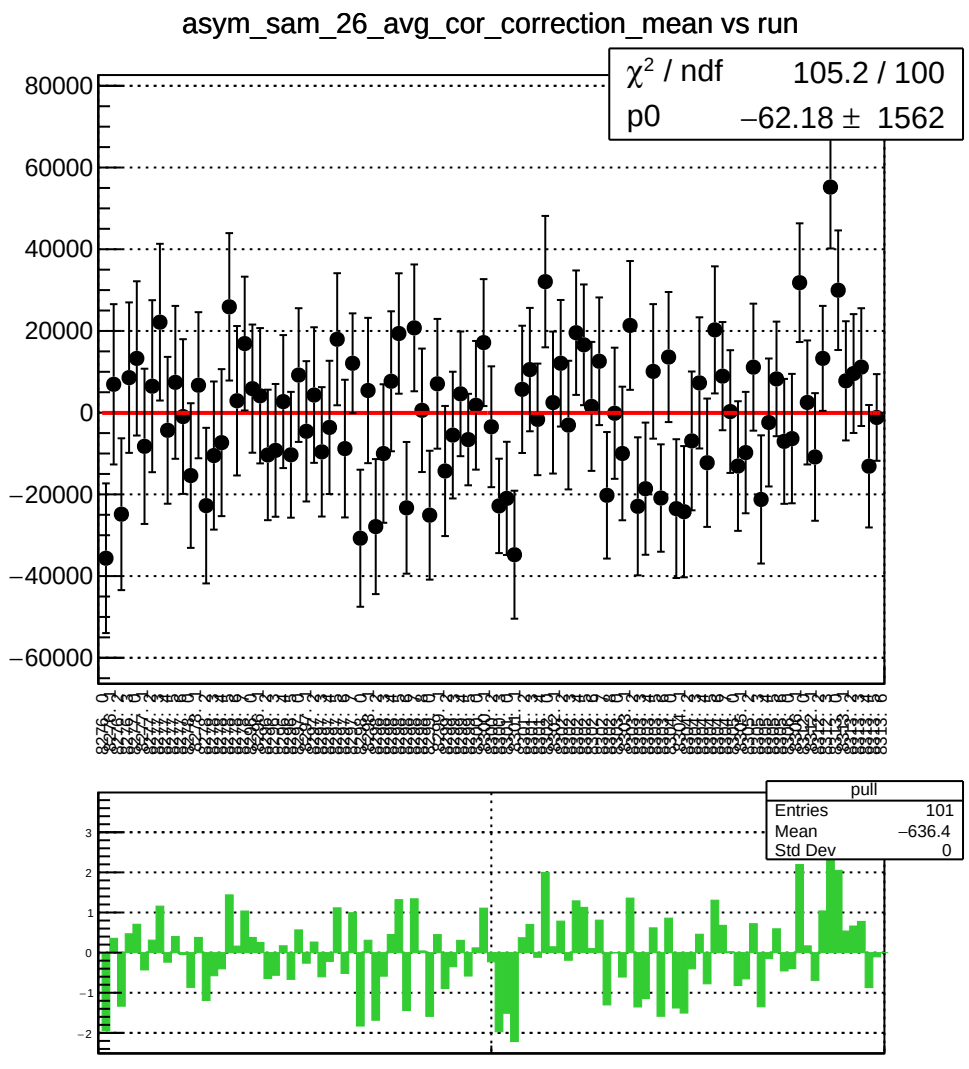

asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 105.2 / 100
p0 −62.18 ± 1562
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −636.3
Std Dev 0
3
2
1
0
−1
−2

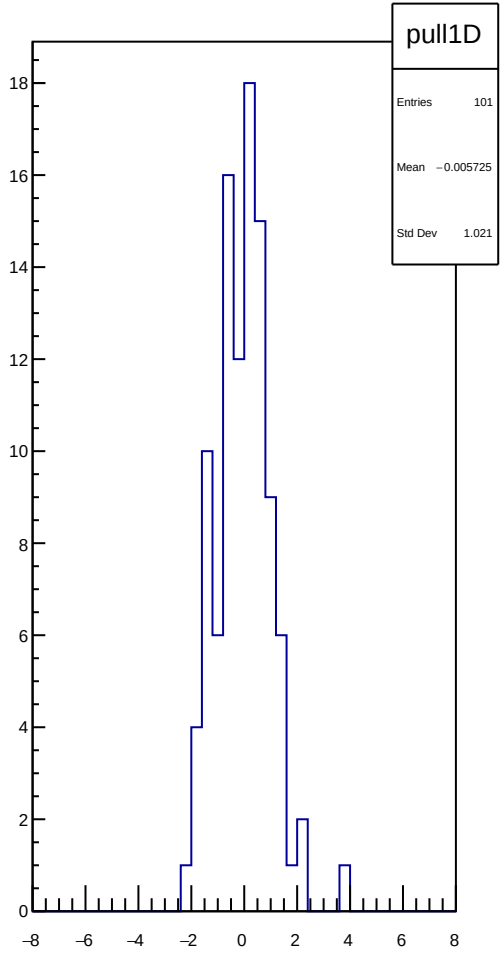

pull1D
Entries 101
Mean −0.005725
Std Dev 1.021
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

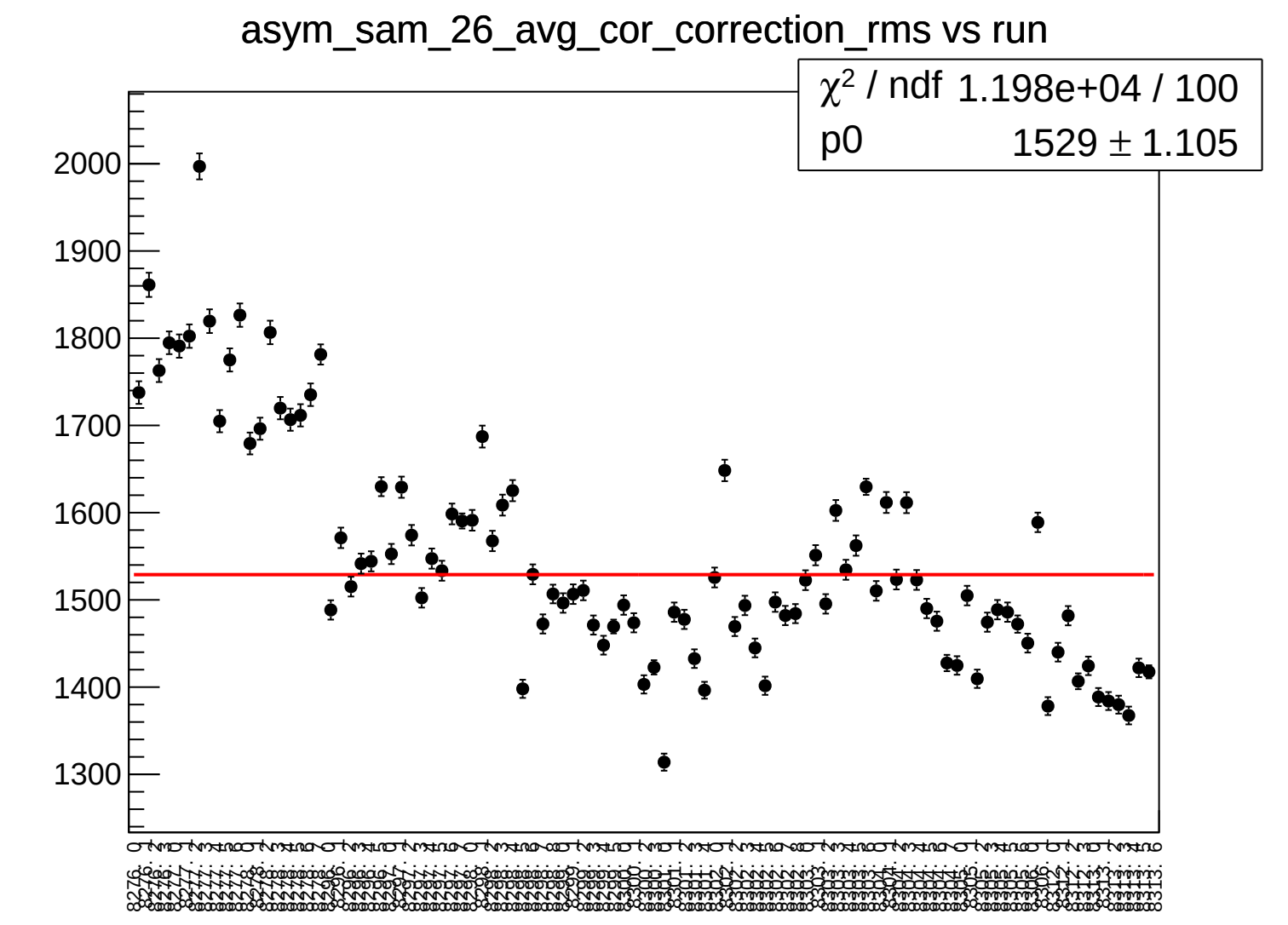

asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 1.198e+04 / 100
p0 1529 ± 1.105
2000
1900
1800
1700
1600
1500
1400
1300

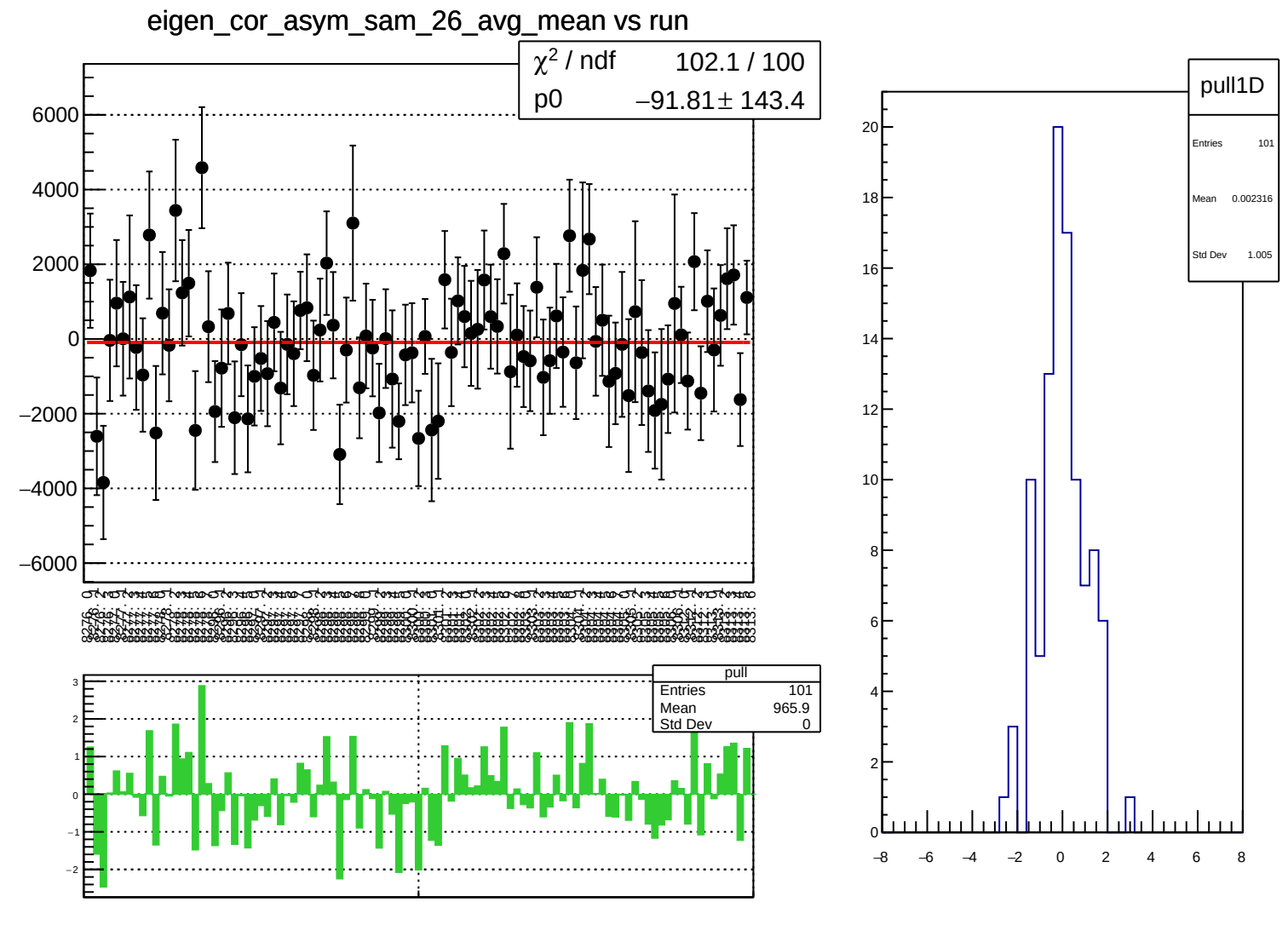

cor_asym_sam_26_avg_mean vs run
χ² / ndf 102.1 / 100
p0 −91.81 ± 143.4
pull
Entries 101
Mean 965.9
Std Dev 0
pull1D
Entries 101
Mean 0.002316
Std Dev 1.005

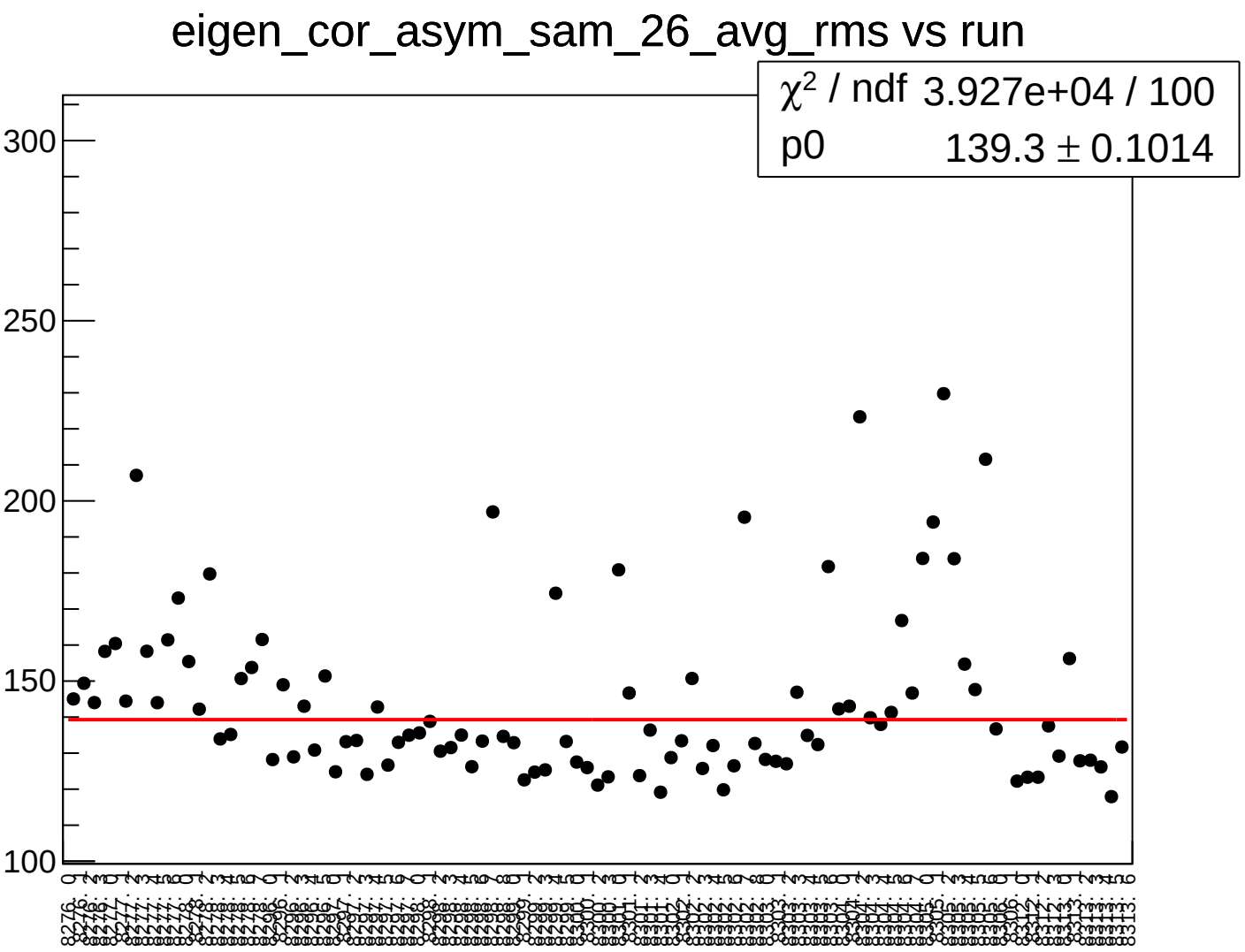

cor_asym_sam_26_avg_rms vs run
χ² / ndf 3.927e+04 / 100
p0 139.3 ± 0.1014
300
250
200
150
100

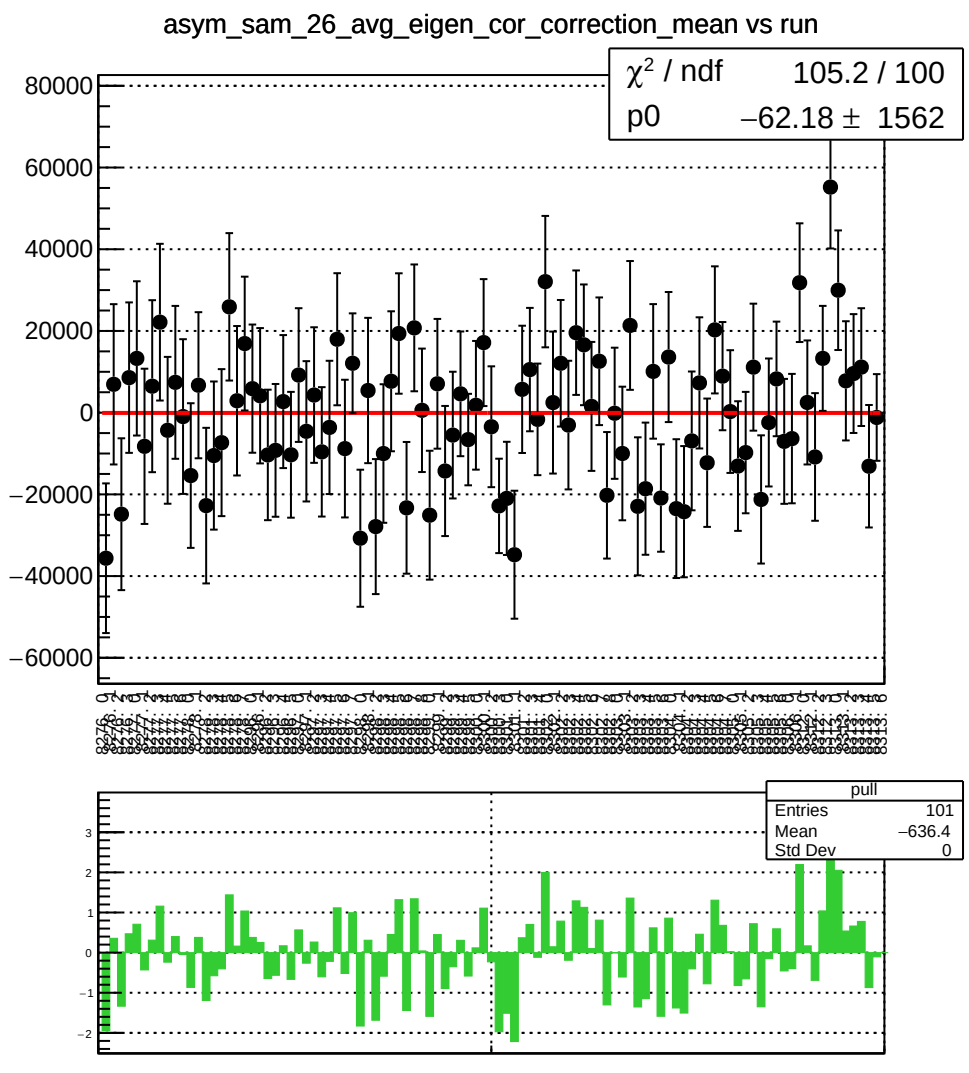

asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 105.2 / 100
p0 −62.18 ± 1562
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −636.4
Std Dev 0
3
2
1
0
−1
−2

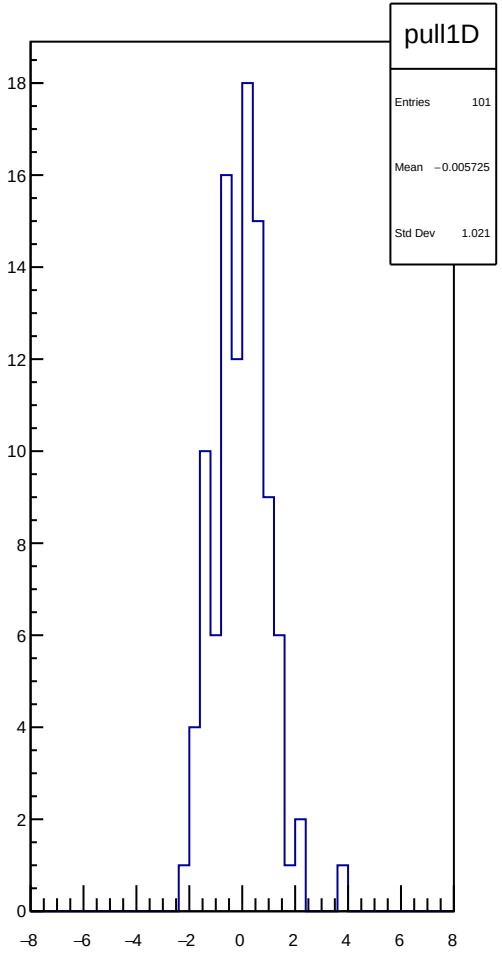

pull1D
Entries 101
Mean −0.005725
Std Dev 1.021
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

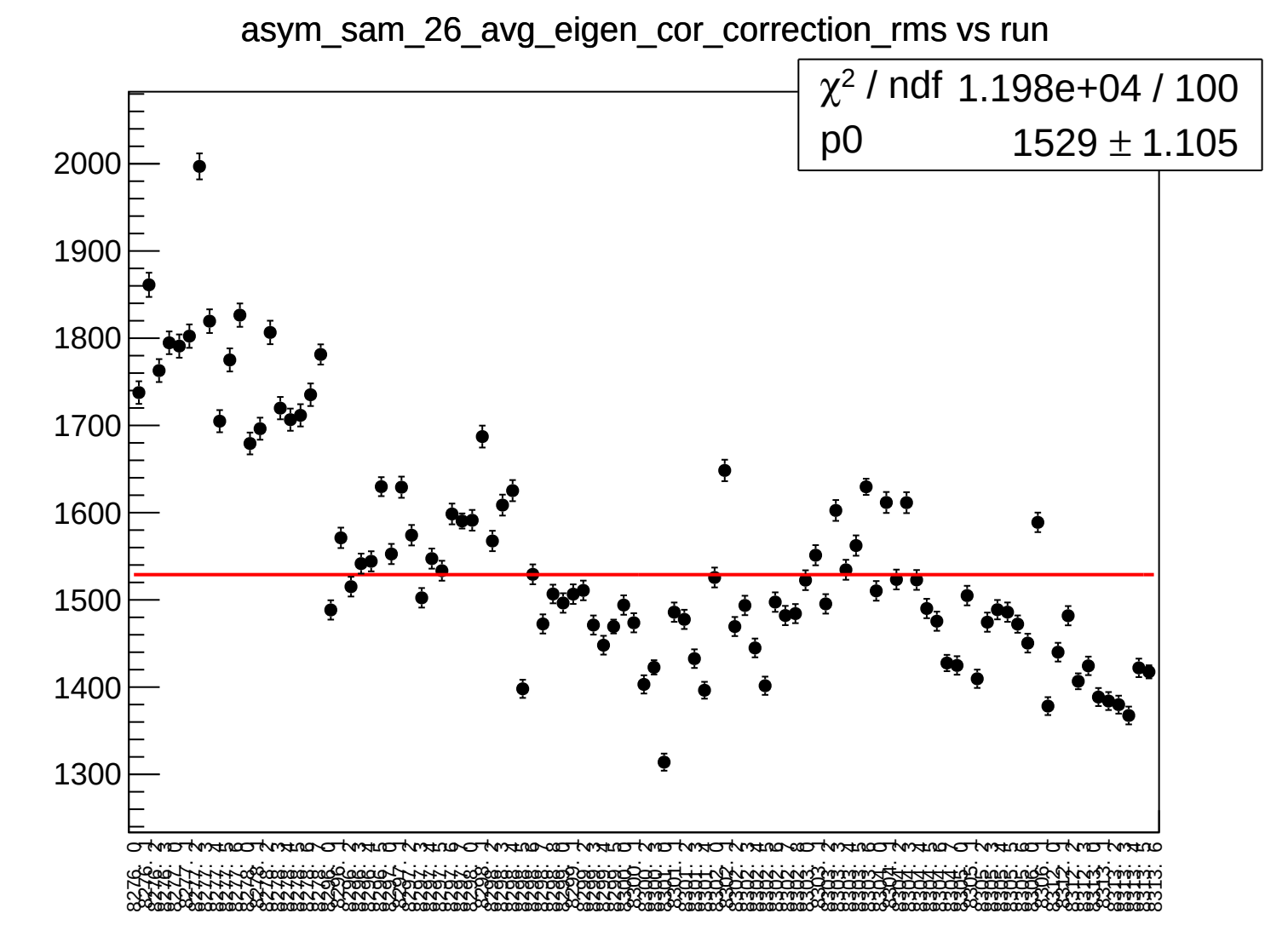

asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 1.198e+04 / 100
p0 1529 ± 1.105
2000
1900
1800
1700
1600
1500
1400
1300

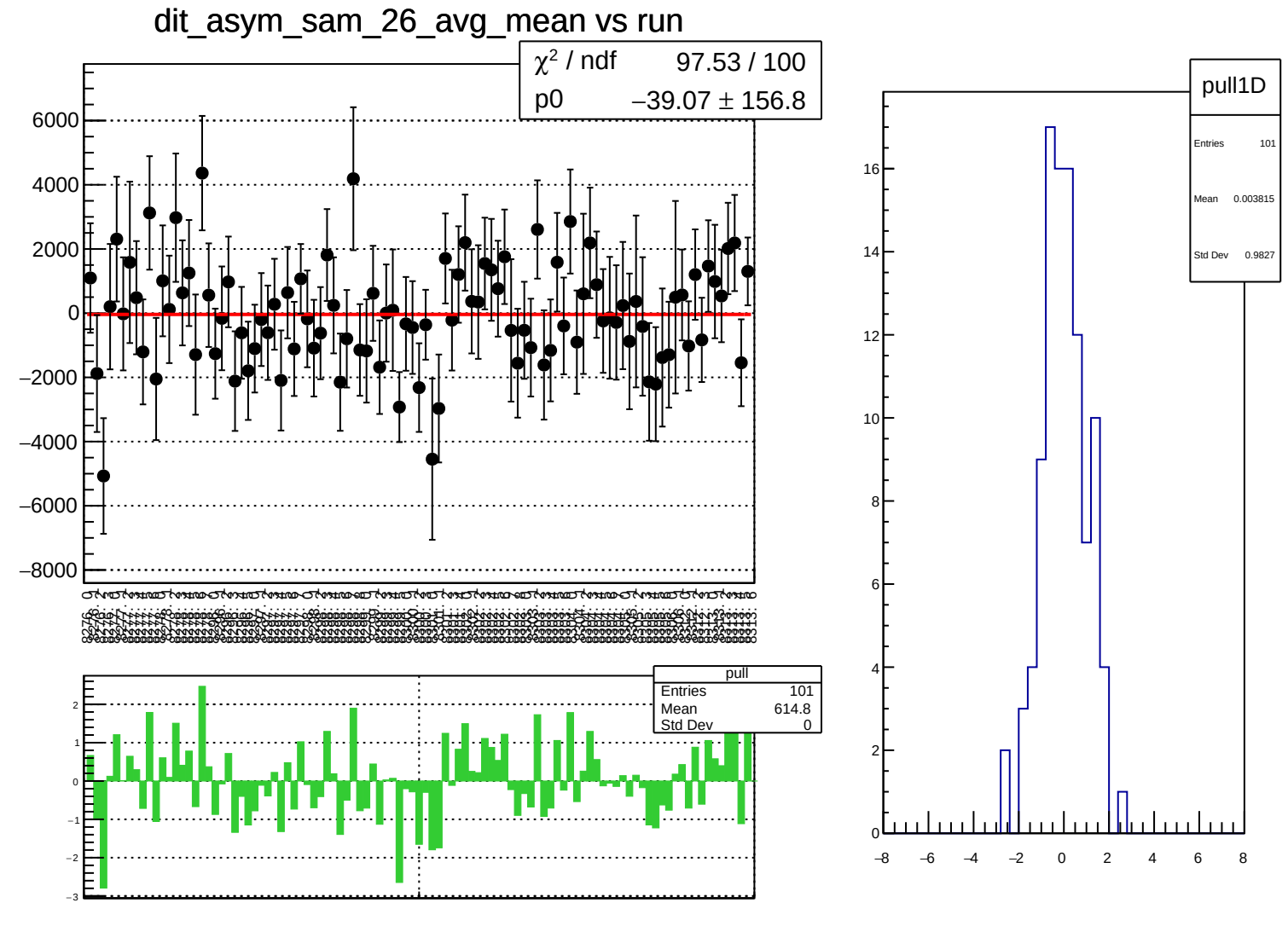

eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 102.1 / 100
p0 −91.81 ± 143.4
pull
Entries 101
Mean 965.9
Std Dev 0
pull1D
Entries 101
Mean 0.002316
Std Dev 1.005

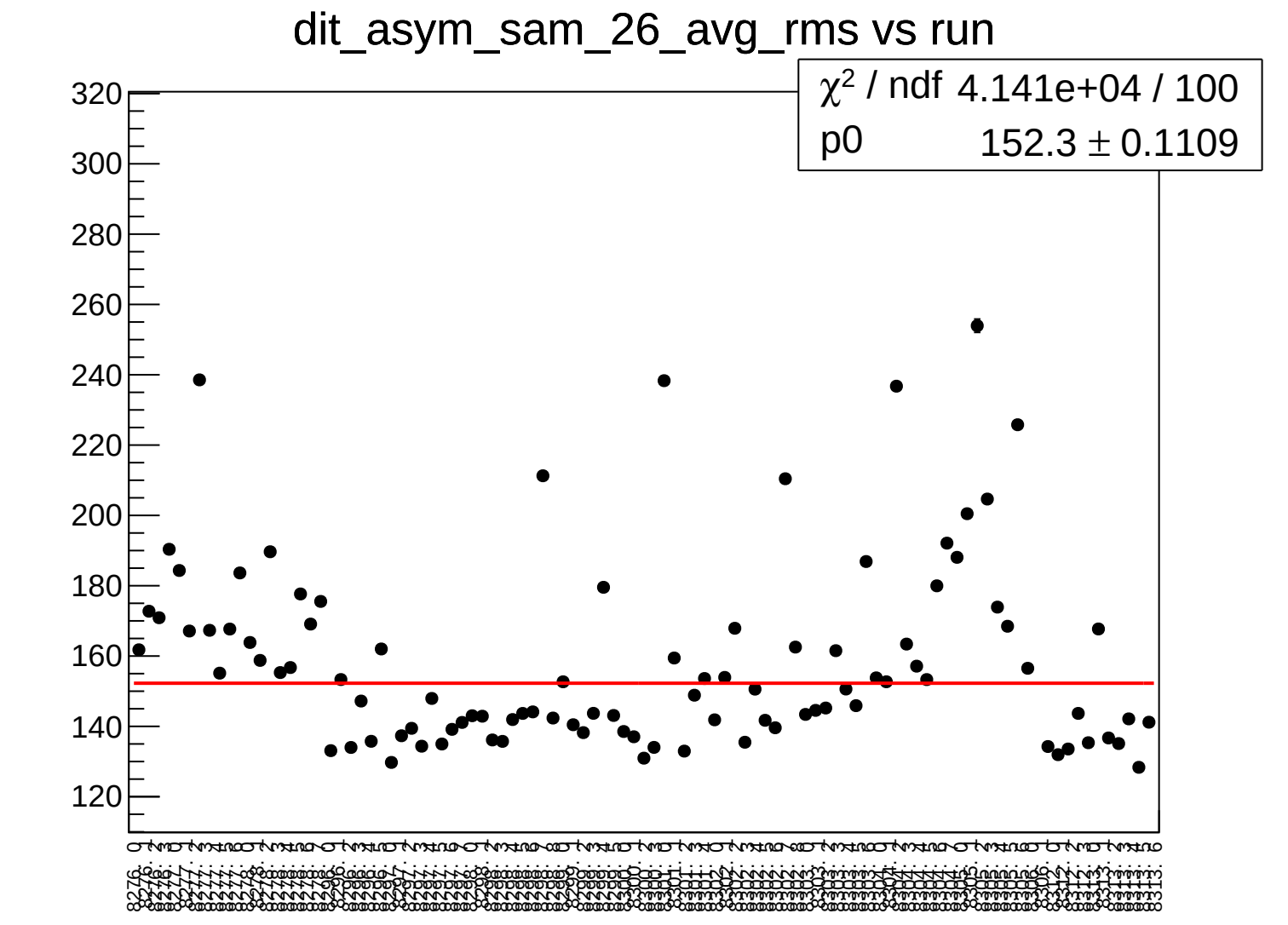

eigen_cor_asym_sam_26_avg_rms vs run
χ² / ndf 3.927e+04 / 100
p0 139.3 ± 0.1014
300
250
200
150
100

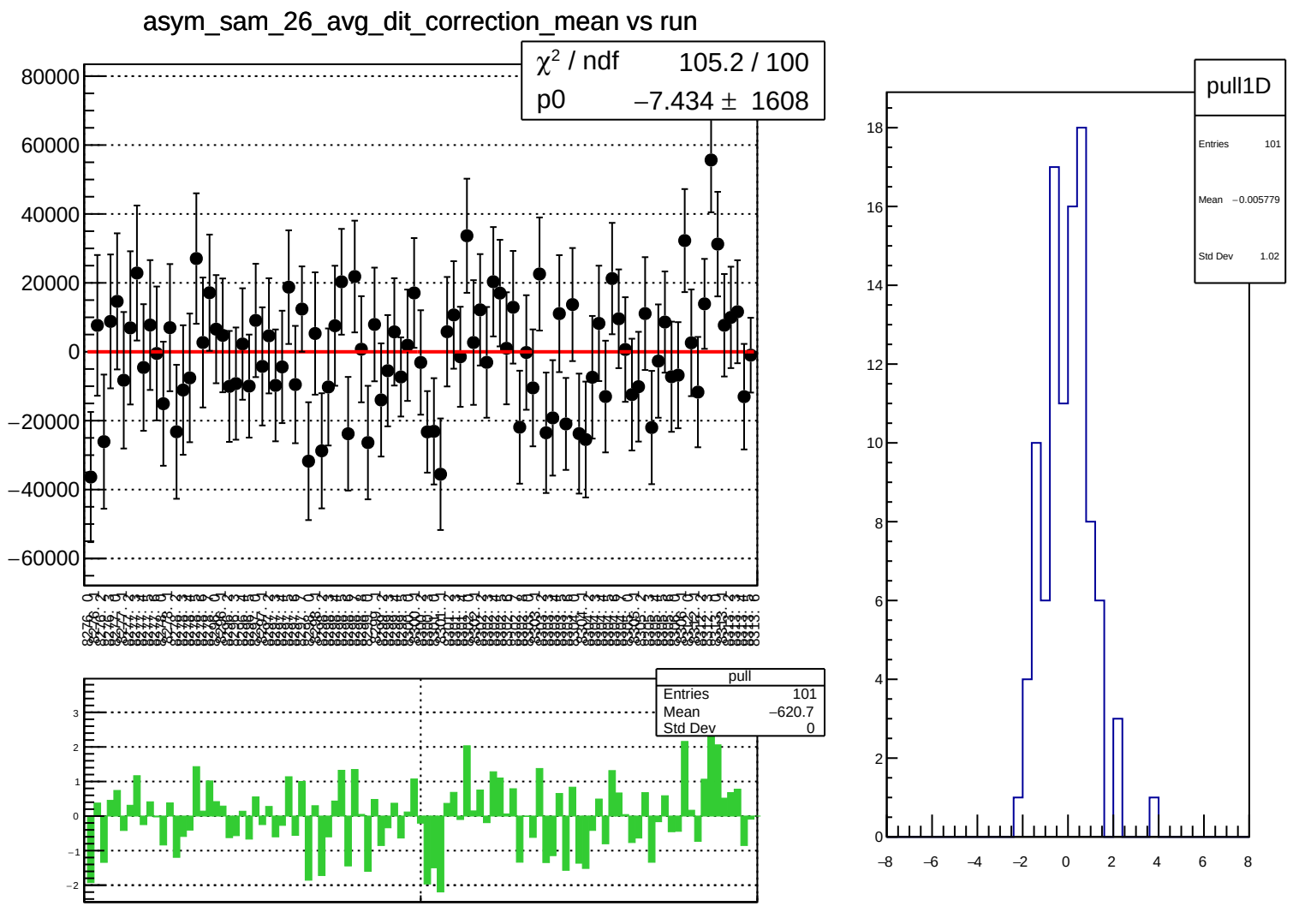

asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 105.2 / 100
p0 −62.18 ± 1562
pull
Entries 101
Mean −636.4
Std Dev 0

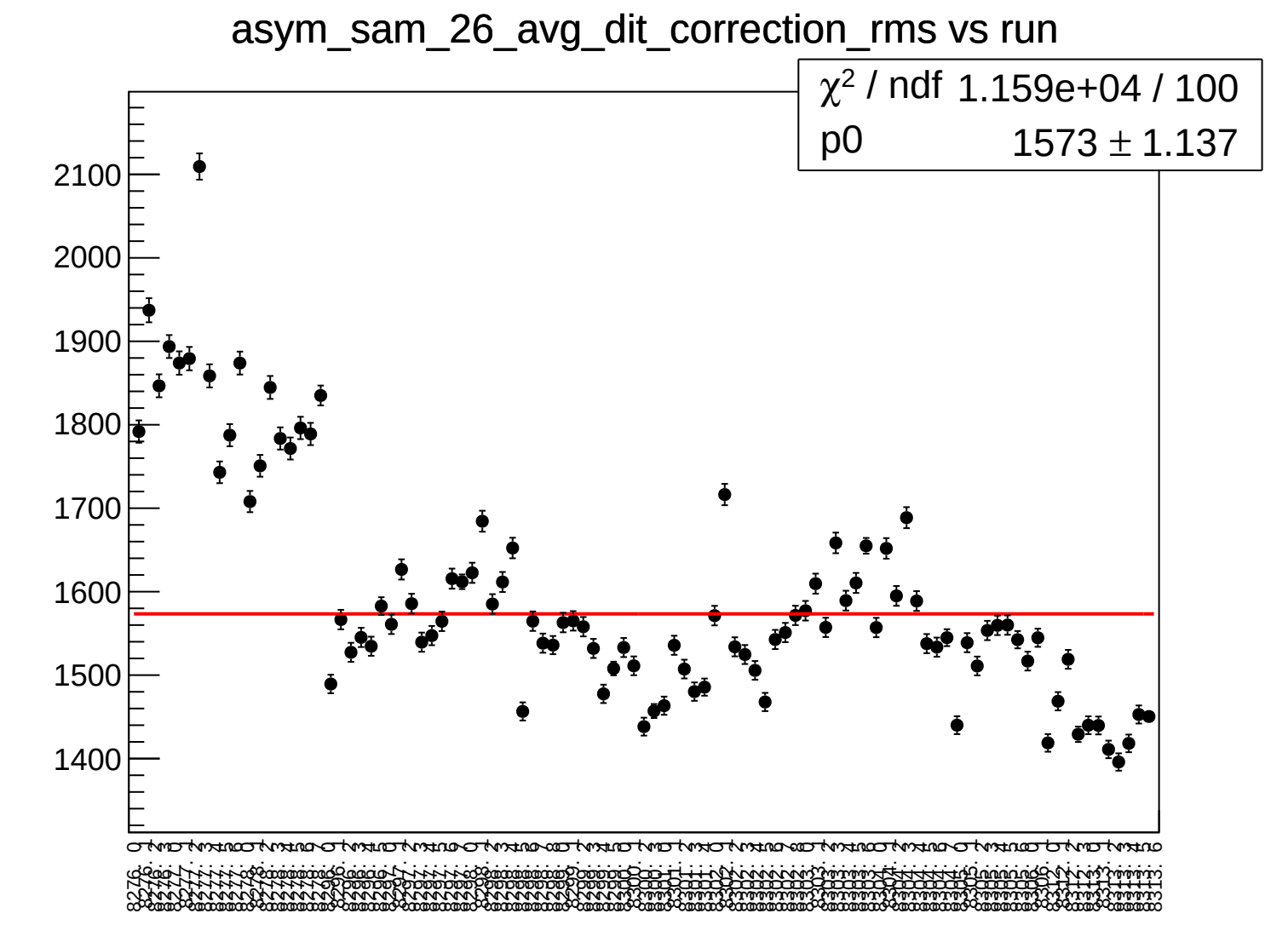

pull1D
Entries 101
Mean −0.005725
Std Dev 1.021

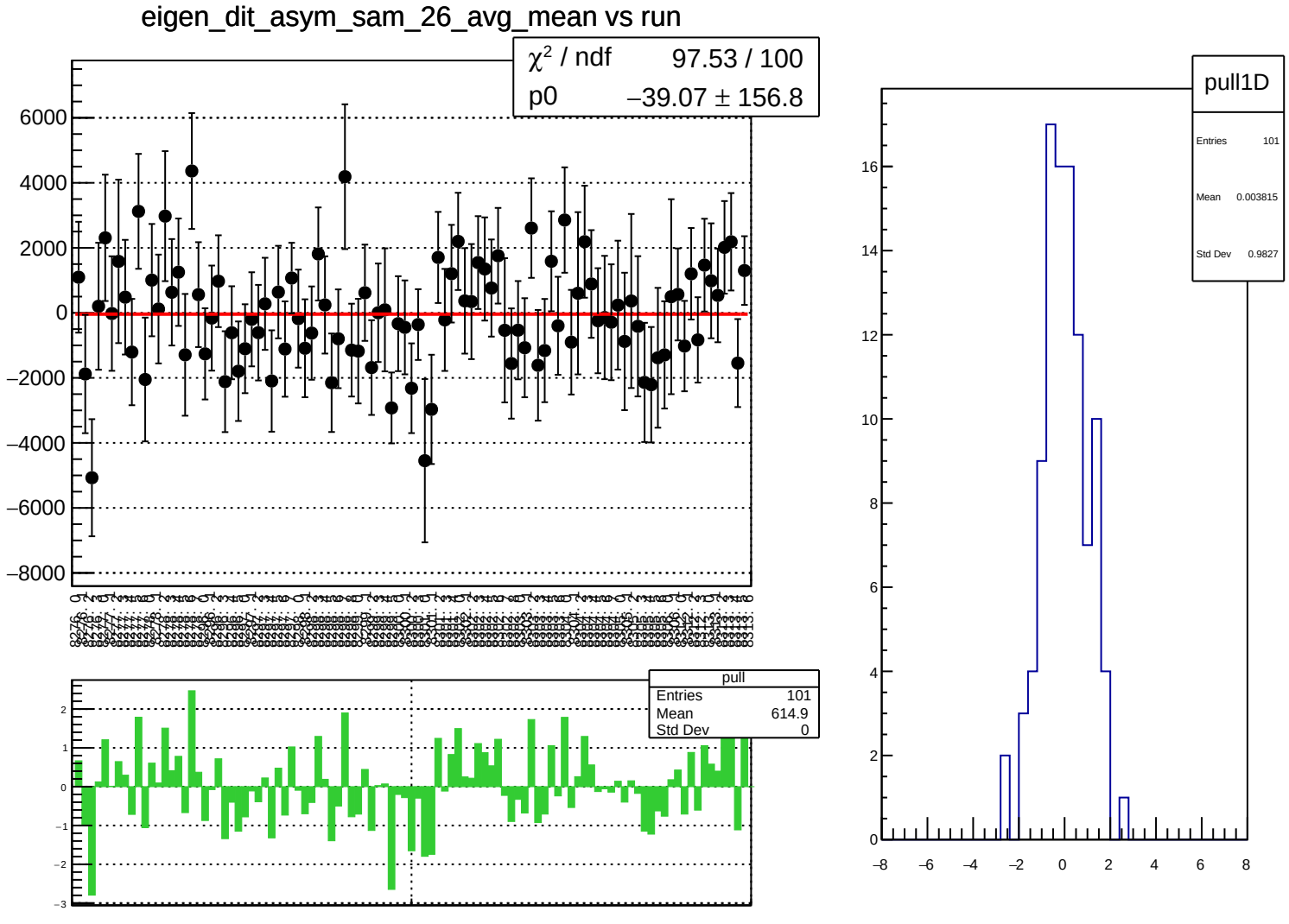

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.198e+04 / 100
p0 1529 ± 1.105
2000
1900
1800
1700
1600
1500
1400
1300

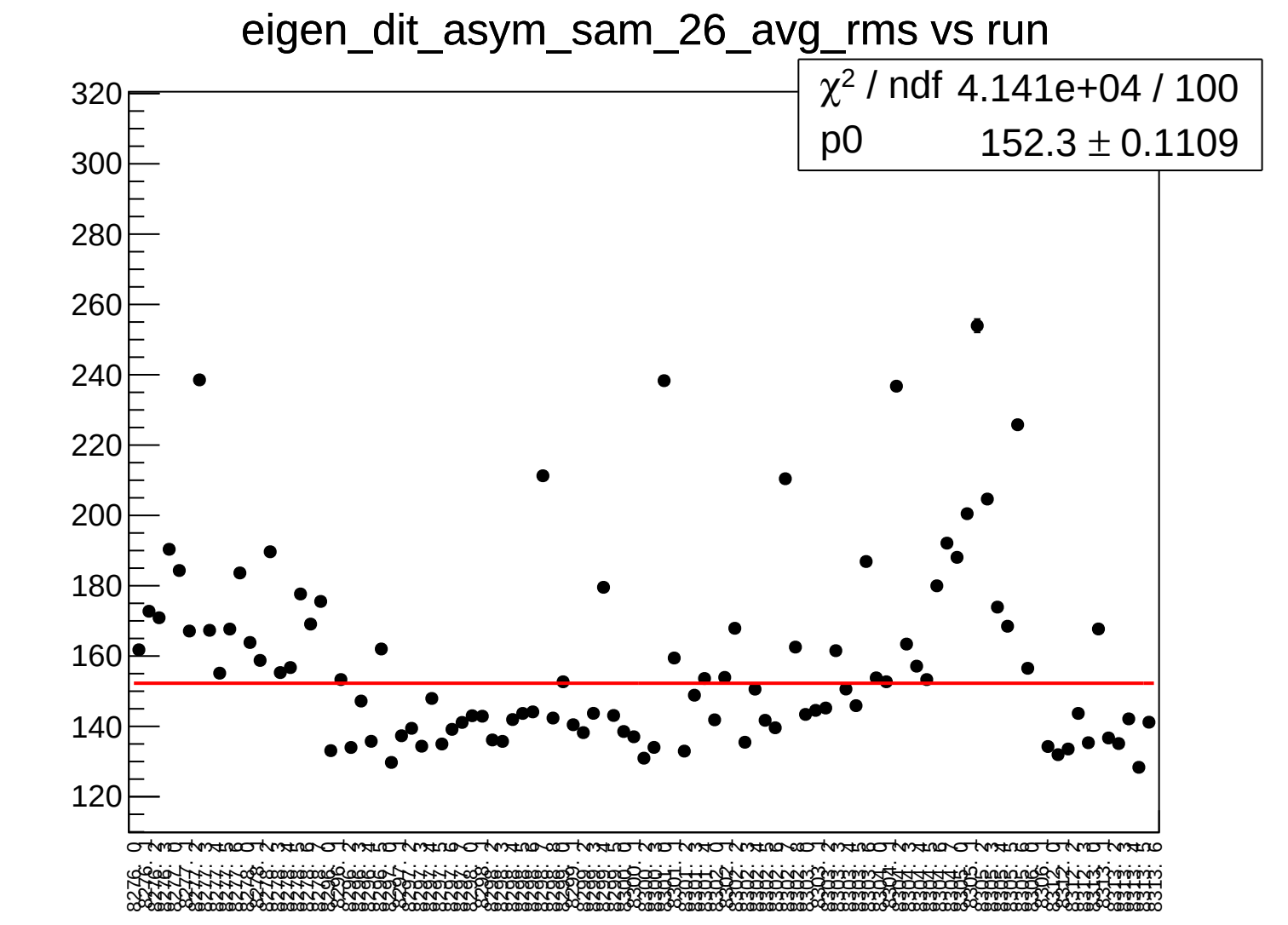

dit_asym_sam_26_avg_mean vs run
χ² / ndf 97.53 / 100
p0 −39.07 ± 156.8
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 101
Mean 614.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.003815
Std Dev 0.9827
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

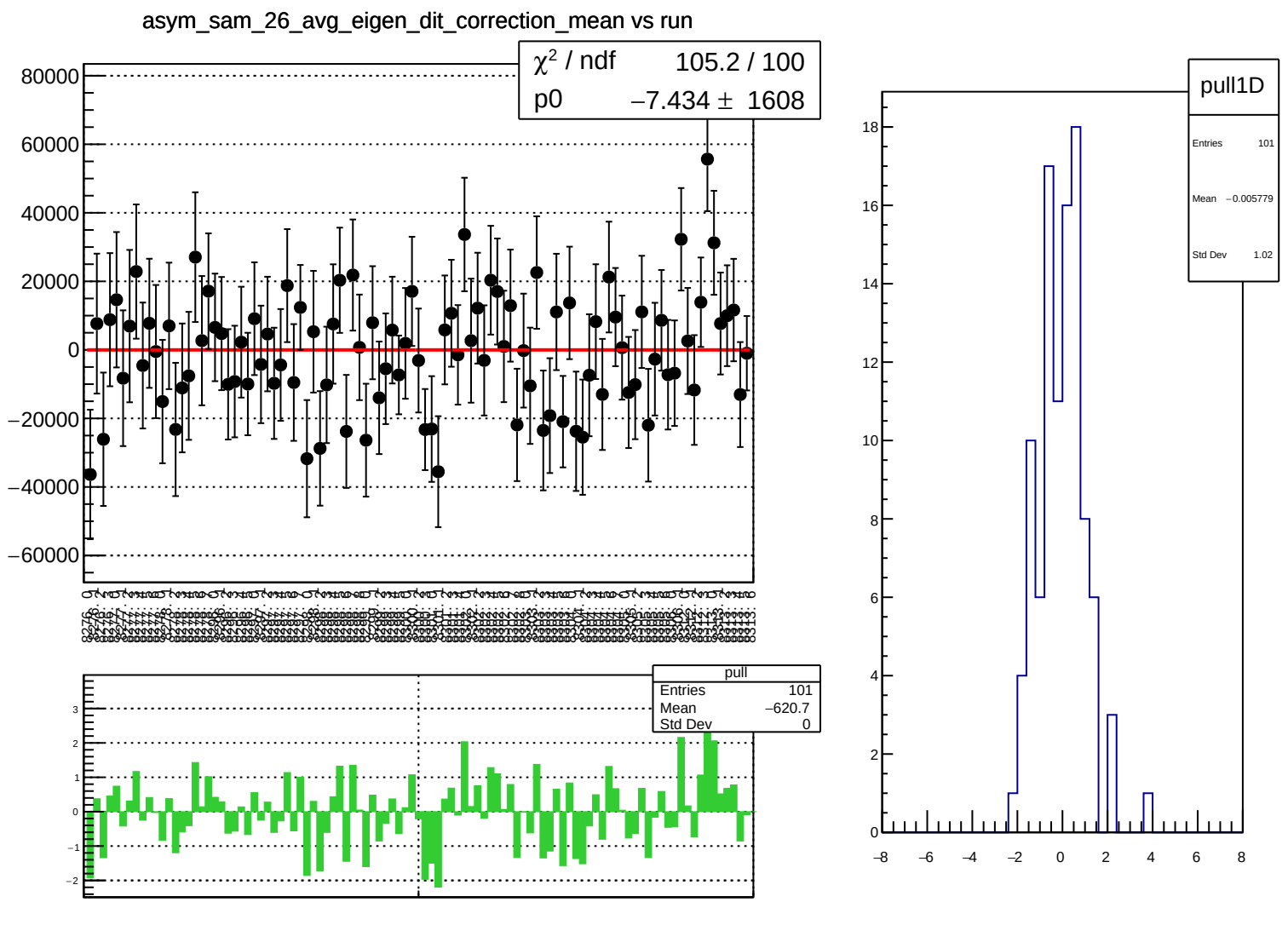

dit_asym_sam_26_avg_rms vs run
χ² / ndf 4.141e+04 / 100
p0 152.3 ± 0.1109
320
300
280
260
240
220
200
180
160
140
120

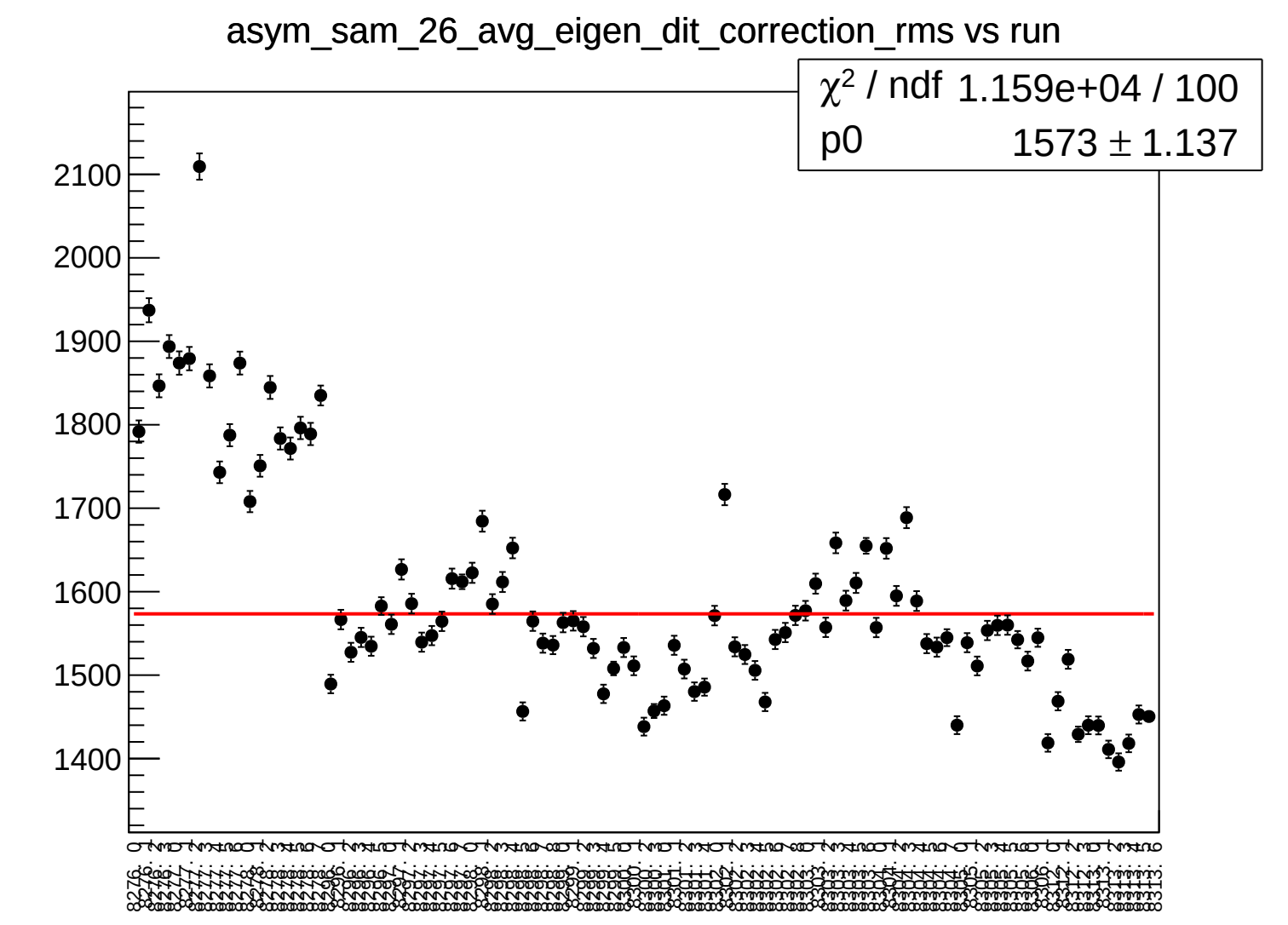

asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 105.2 / 100
p0 −7.434 ± 1608
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −620.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.005779
Std Dev 1.02
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

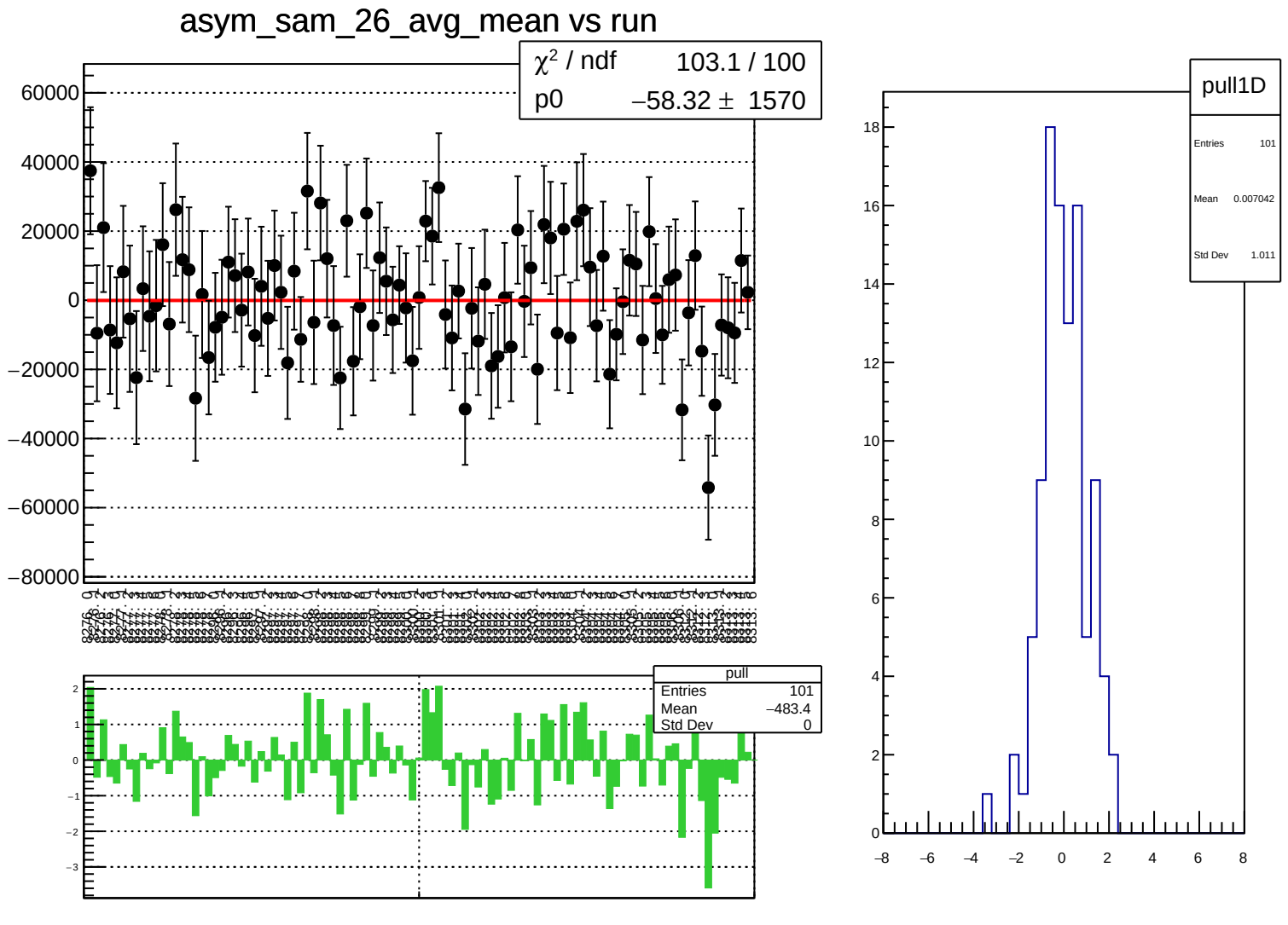

asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 1.159e+04 / 100
p0 1573 ± 1.137
2100
2000
1900
1800
1700
1600
1500
1400

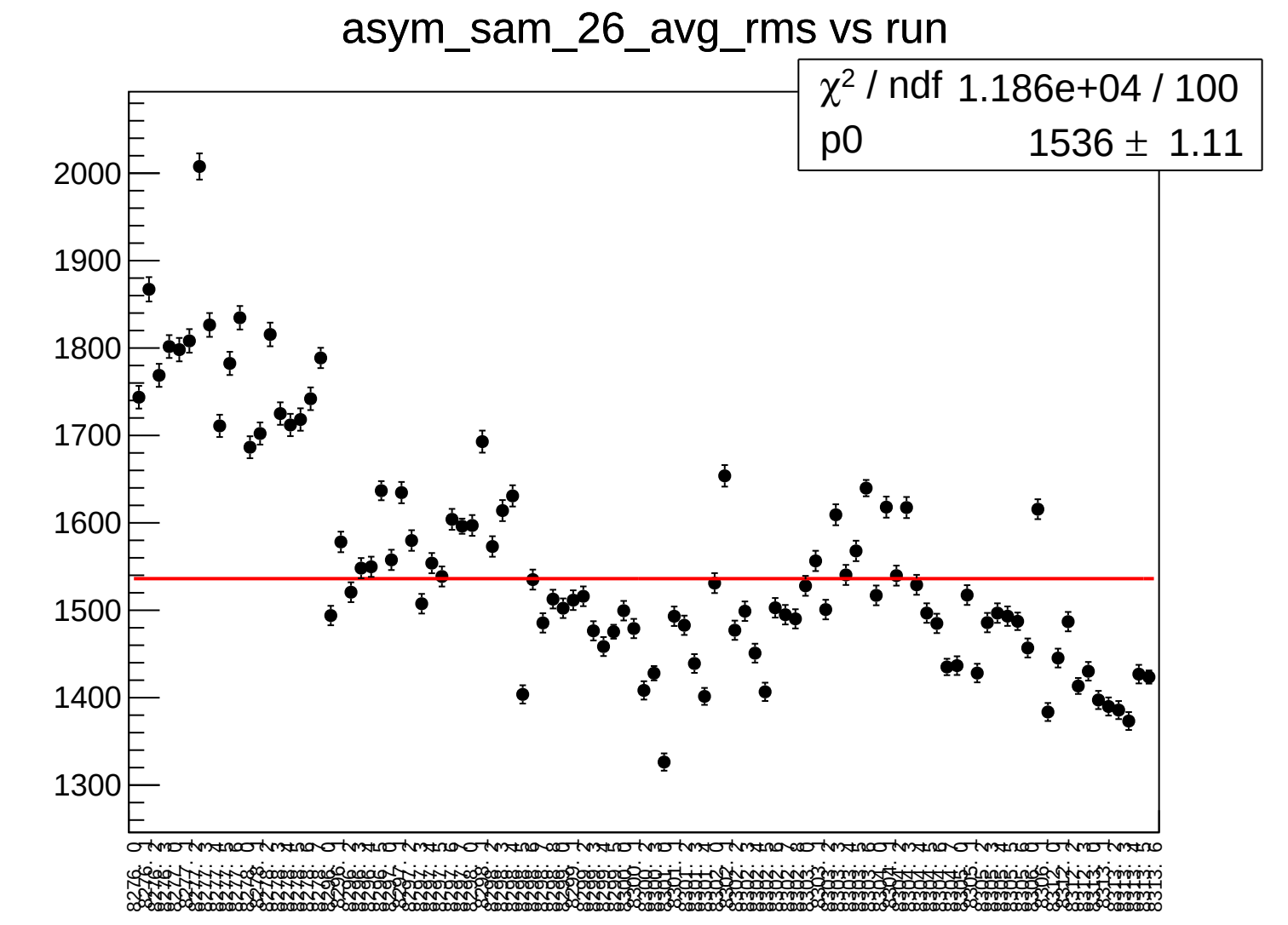

eigen_dit_asym_sam_26_avg_mean vs run
χ² / ndf 97.53 / 100
p0 −39.07 ± 156.8
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 101
Mean 614.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.003815
Std Dev 0.9827
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

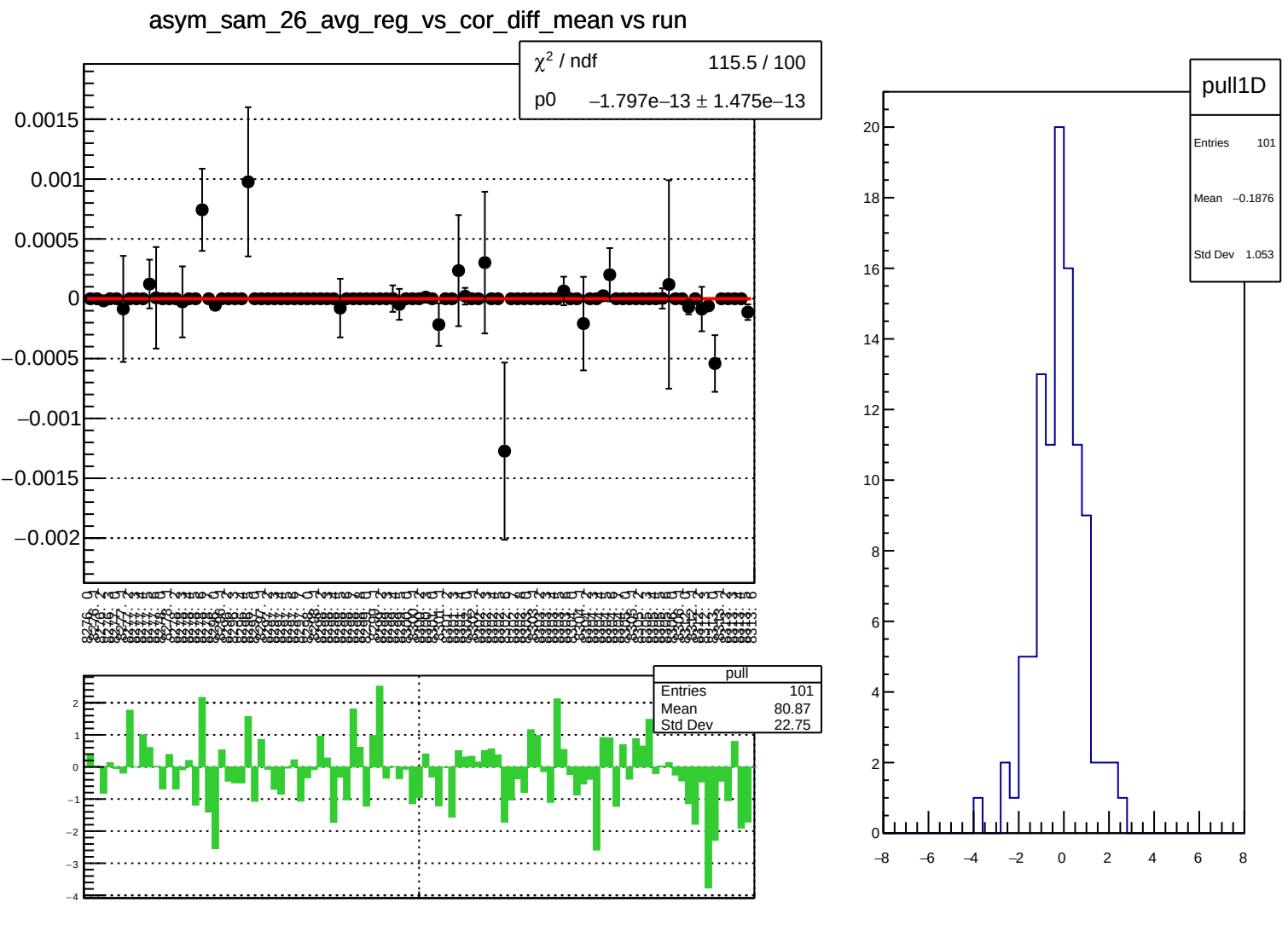

eigen_dit_asym_sam_26_avg_rms vs run
χ^2 / ndf 4.141e+04 / 100
p0 152.3 ± 0.1109
320
300
280
260
240
220
200
180
160
140
120

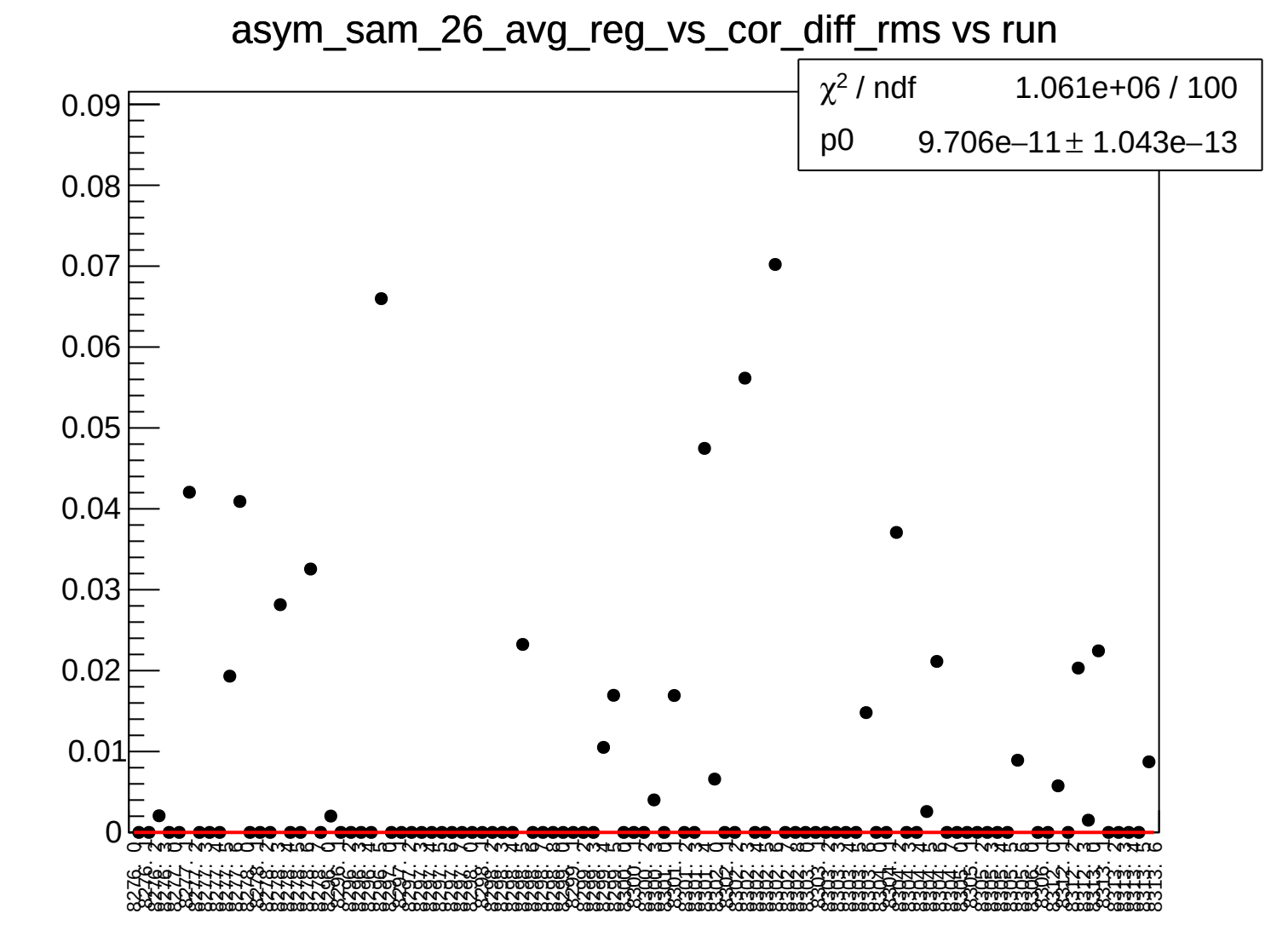

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 105.2 / 100
p0 −7.434 ± 1608
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −620.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.005779
Std Dev 1.02
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

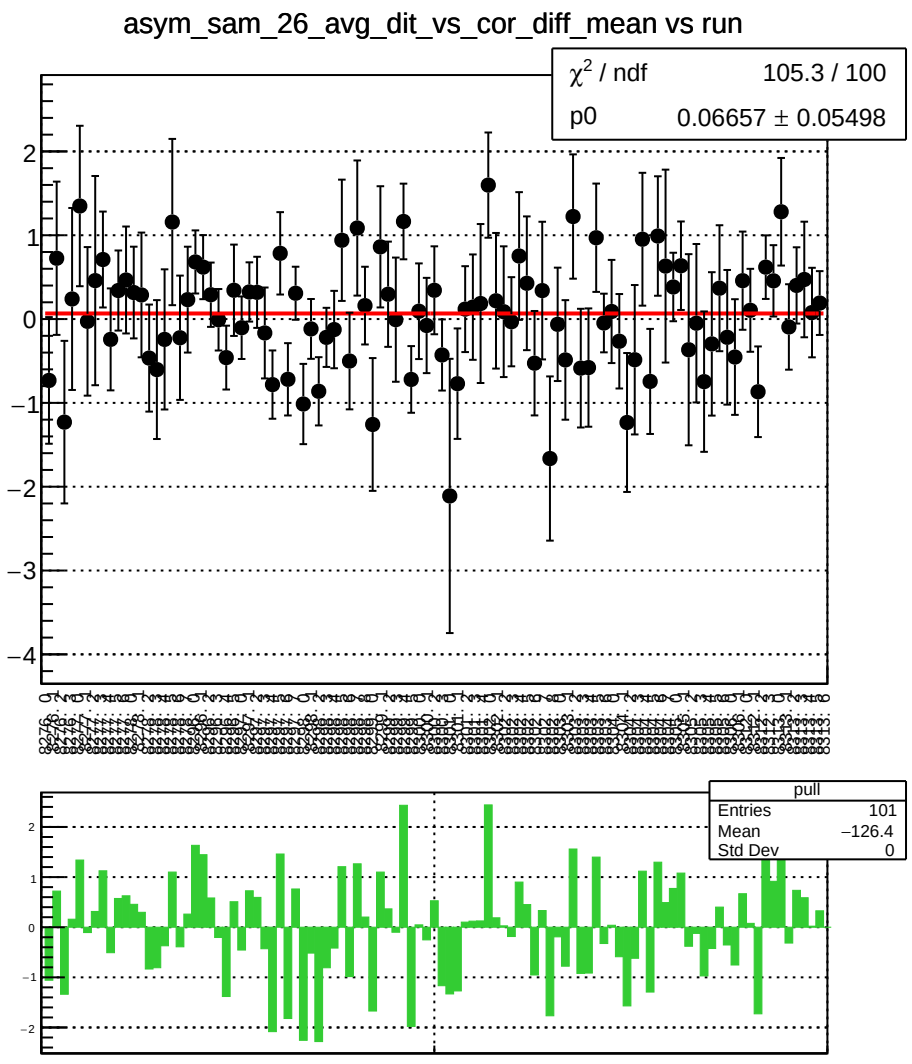

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.159e+04 / 100
p0 1573 ± 1.137
2100
2000
1900
1800
1700
1600
1500
1400

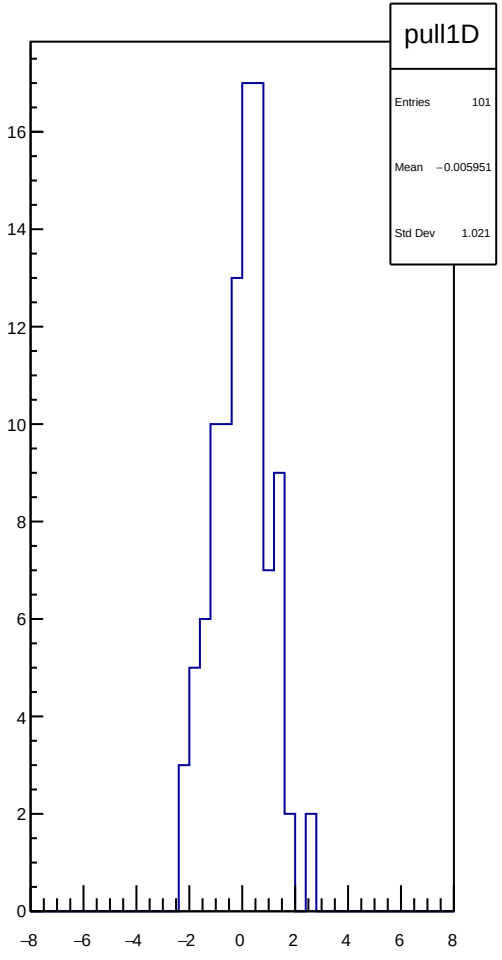

asym_sam_26_avg_mean vs run
χ² / ndf 103.1 / 100
p0 −58.32 ± 1570
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 101
Mean −483.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.007042
Std Dev 1.011
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

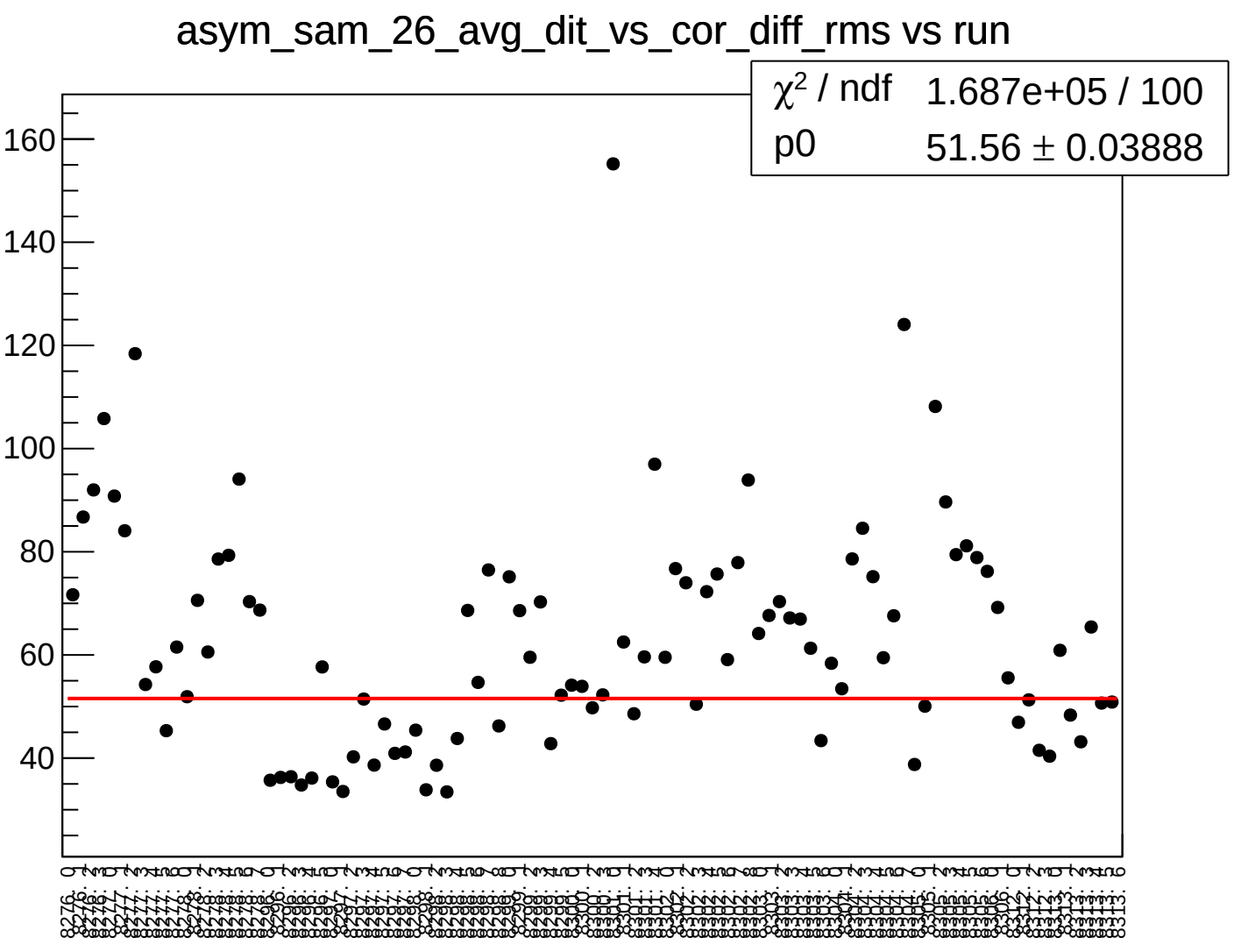

asym_sam_26_avg_rms vs run
χ² / ndf 1.186e+04 / 100
p0 1536 ± 1.11
2000
1900
1800
1700
1600
1500
1400
1300

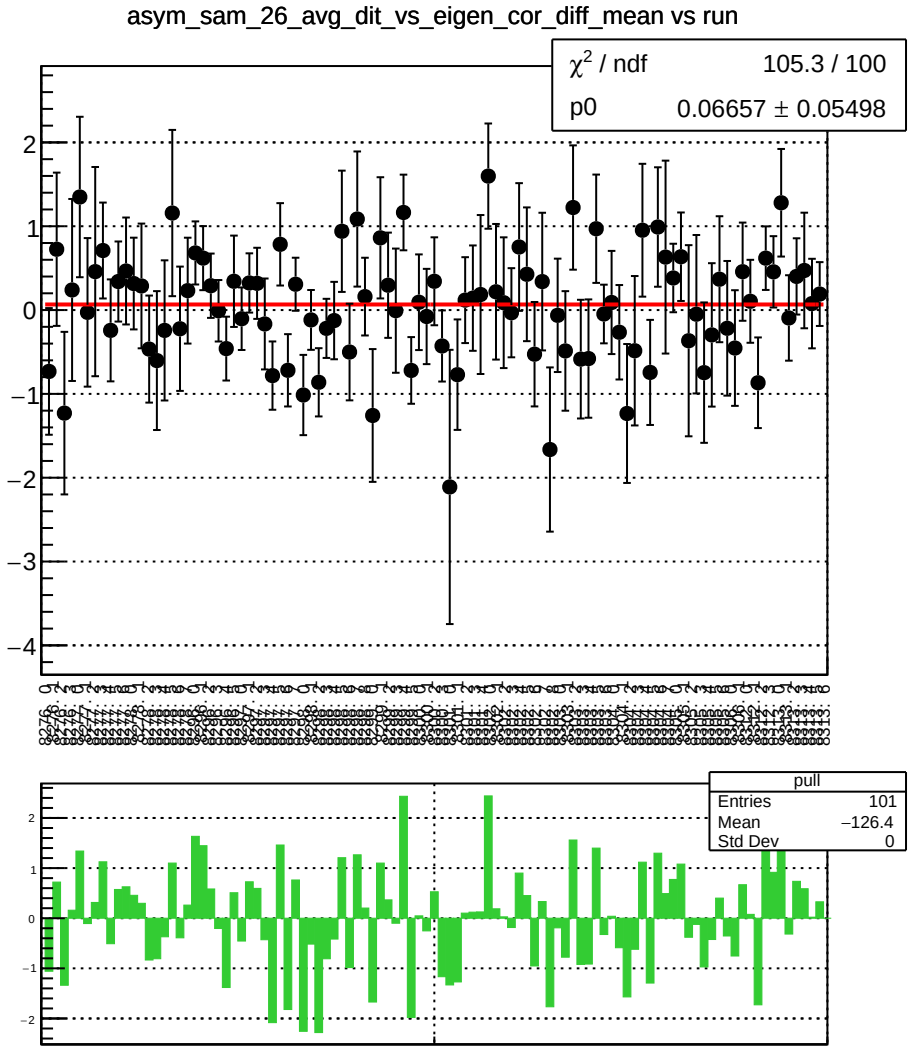

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 115.5 / 100
p0 −1.797e−13 ± 1.475e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 101
Mean 80.87
Std Dev 22.75
2
1
0
−1
−2
−3
−4
pull1D
Entries 101
Mean −0.1876
Std Dev 1.053
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

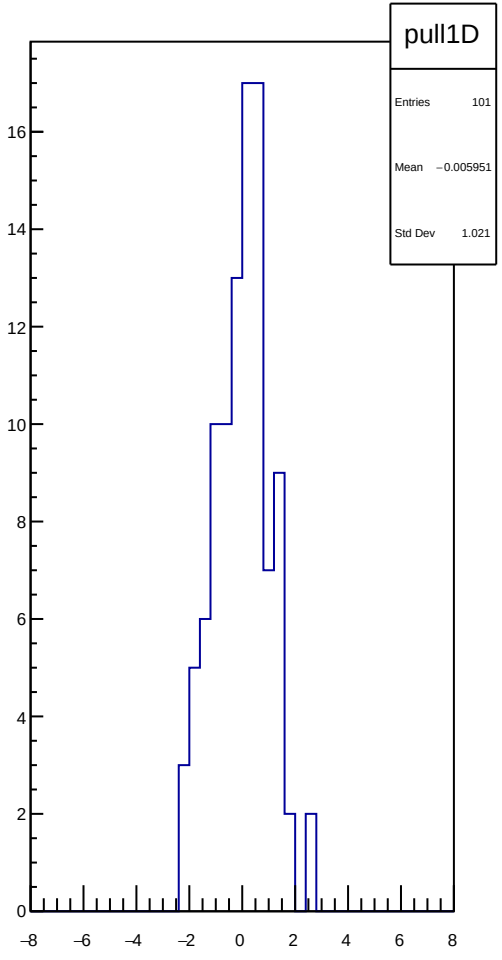

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.061e+06 / 100
p0 9.706e−11 ± 1.043e−13
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

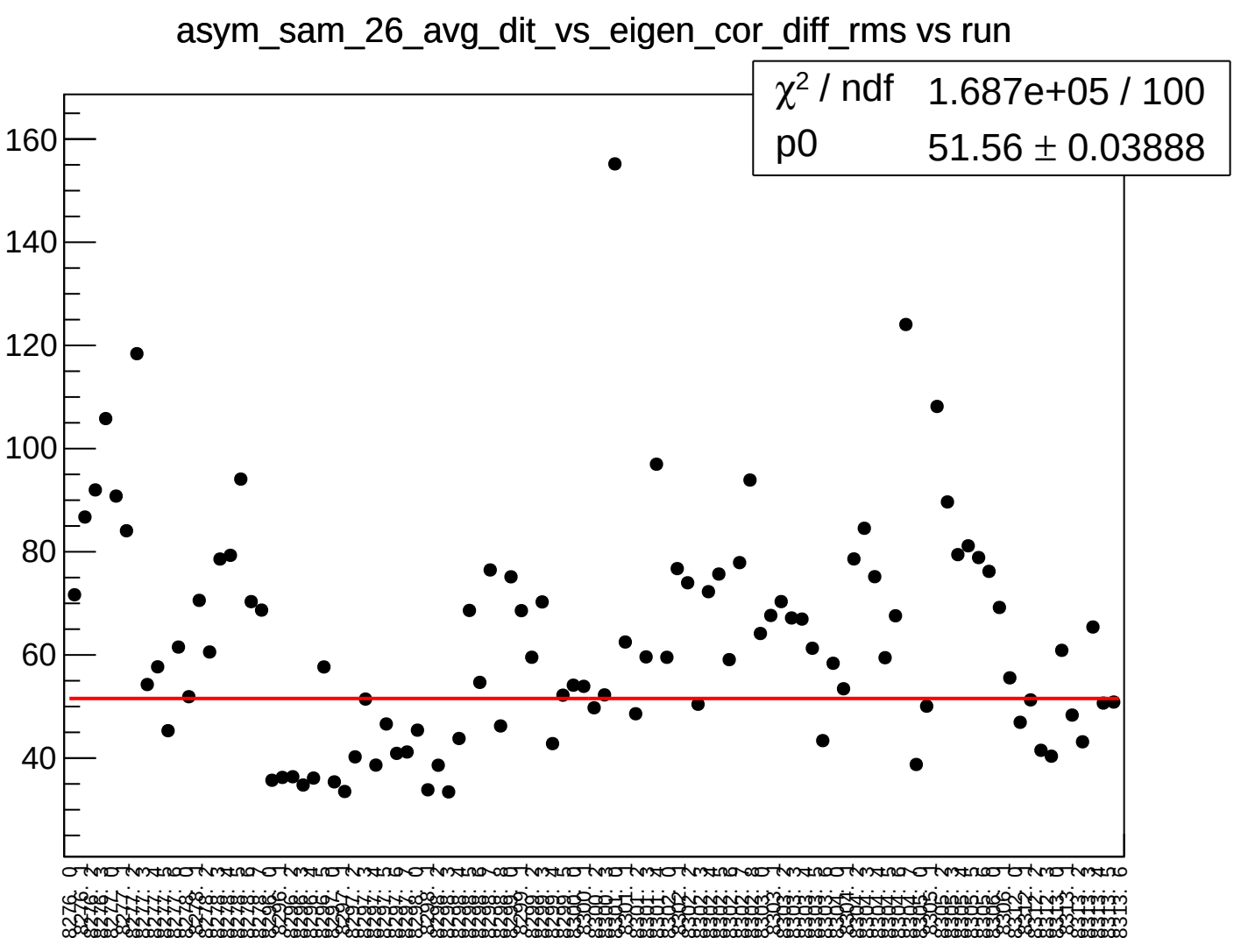

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 105.3 / 100
p0 0.06657 ± 0.05498
pull
Entries 101
Mean −126.4
Std Dev 0

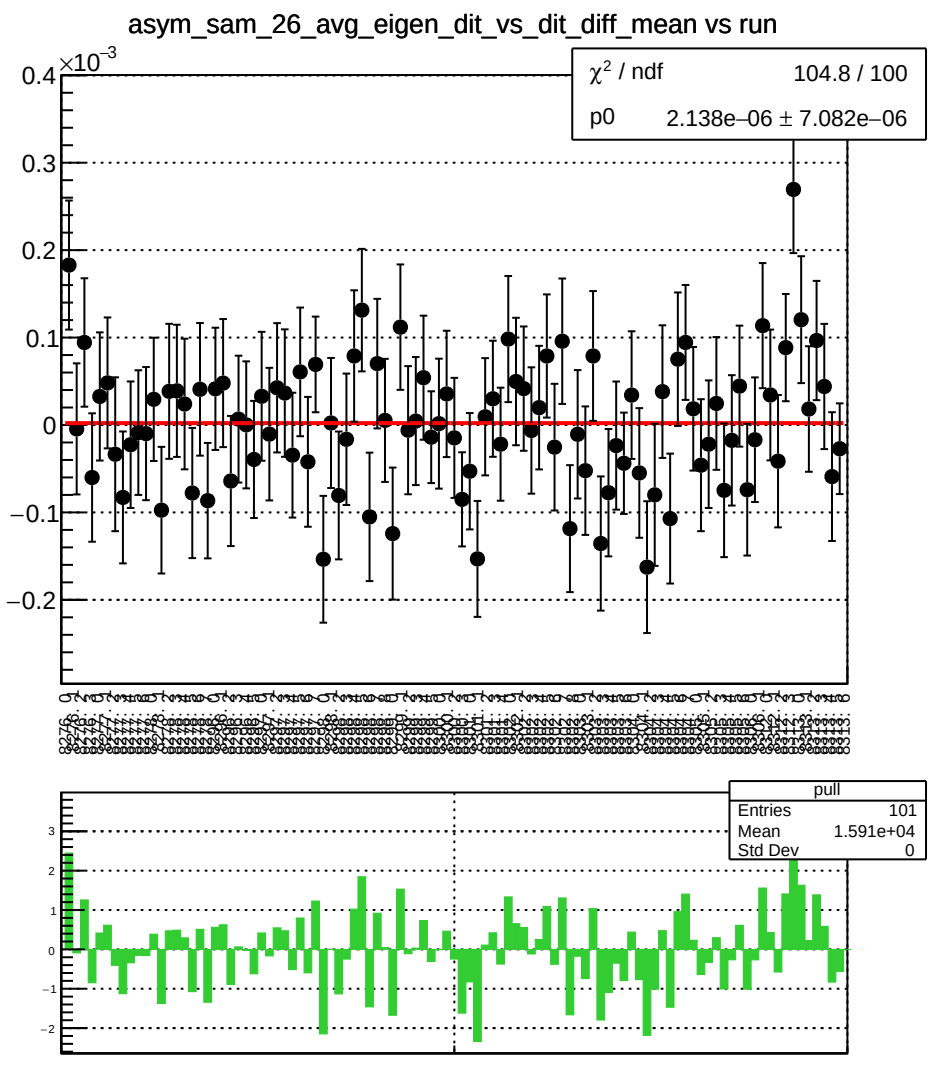

pull1D
Entries 101
Mean −0.005951
Std Dev 1.021

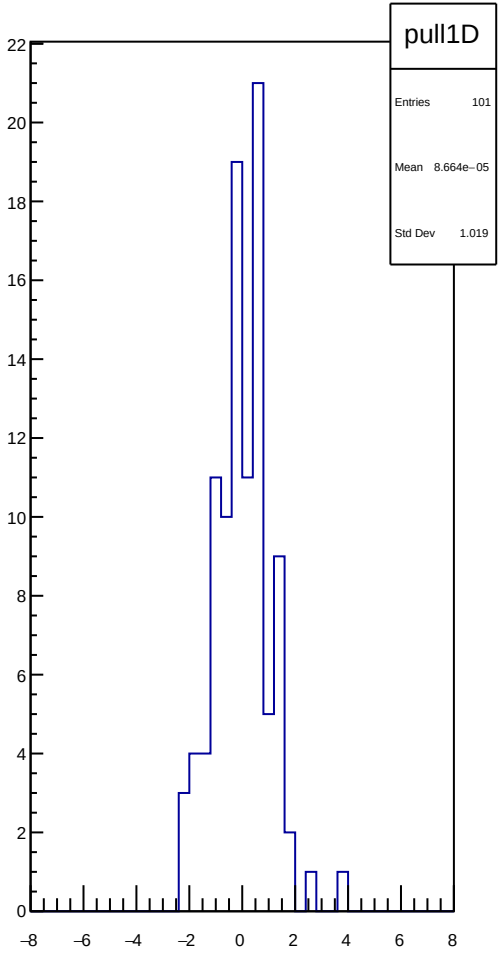

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.687e+05 / 100
p0 51.56 ± 0.03888
160
140
120
100
80
60
40

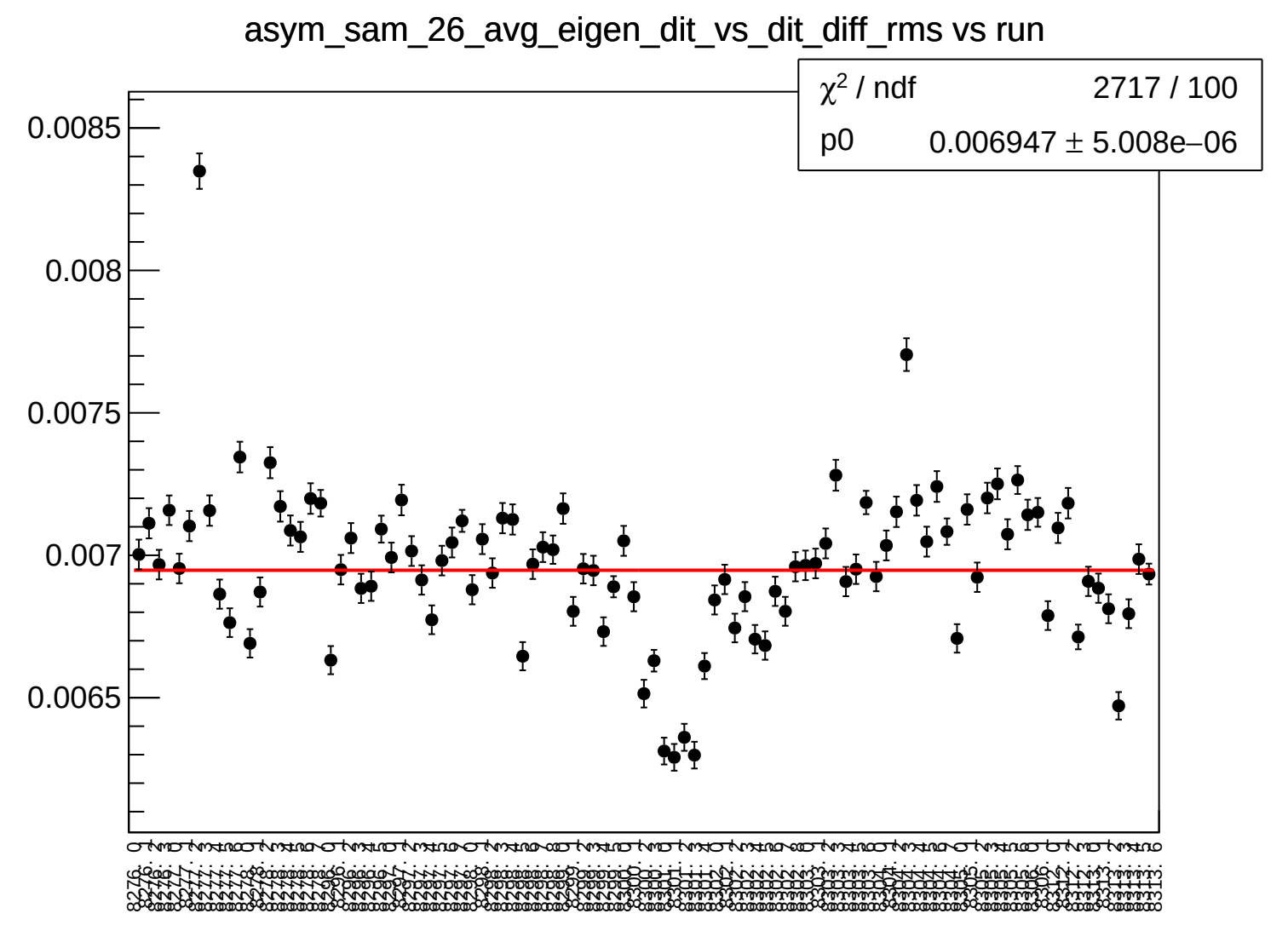

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.3 / 100
p0 0.06657 ± 0.05498
pull
Entries 101
Mean −126.4
Std Dev 0

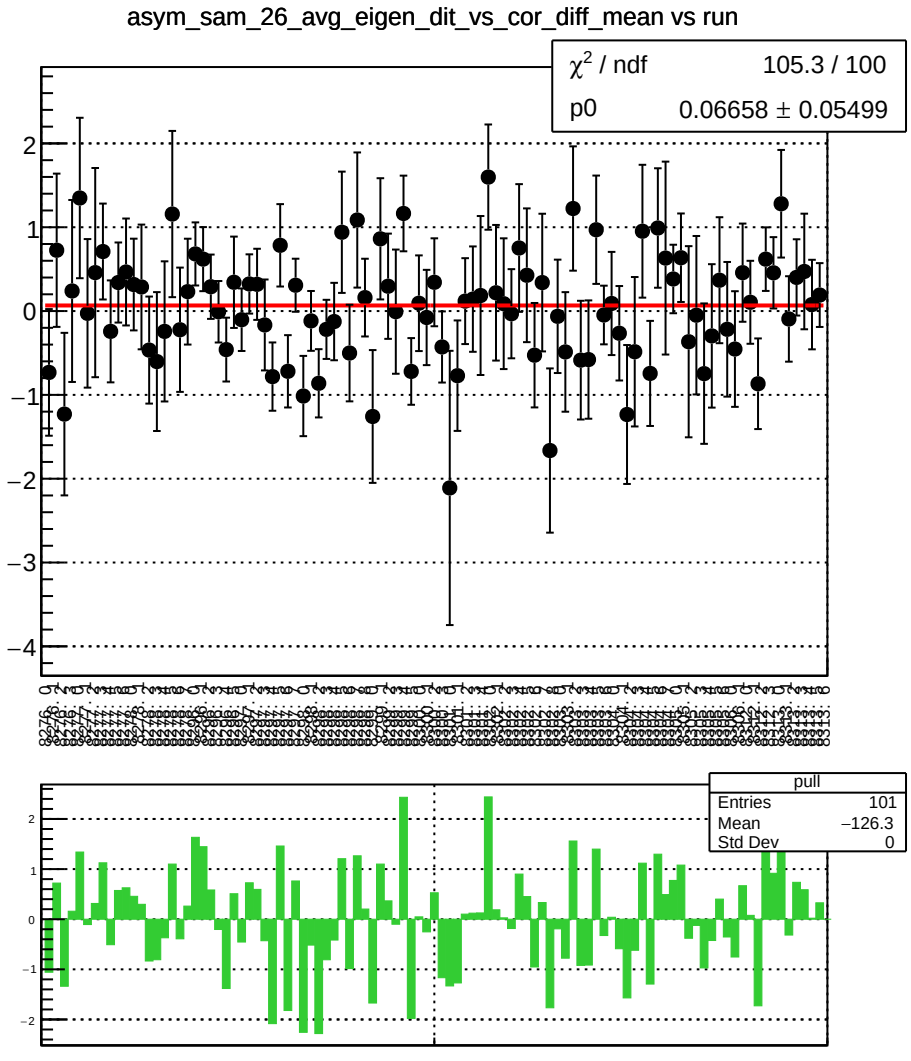

pull1D
Entries 101
Mean −0.005951
Std Dev 1.021

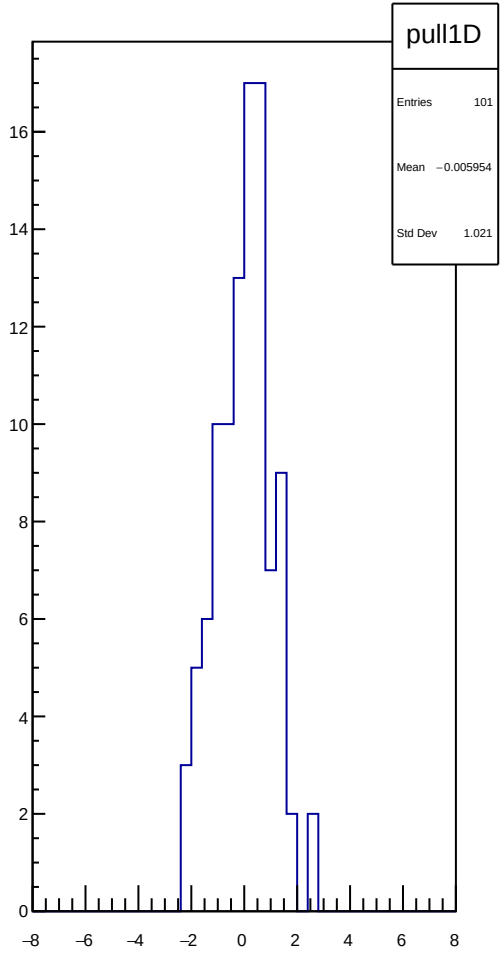

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.687e+05 / 100
p0 51.56 ± 0.03888
160
140
120
100
80
60
40

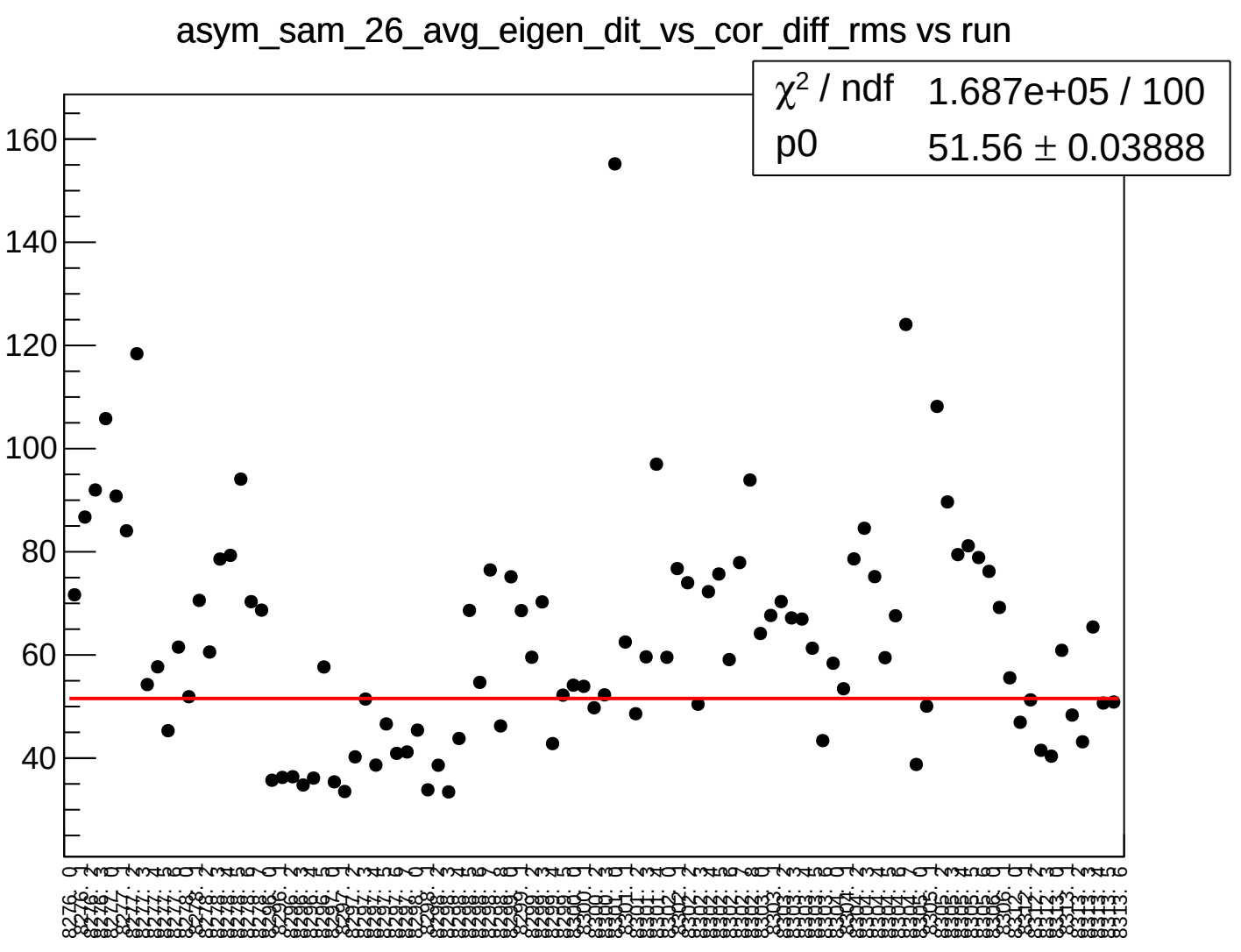

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 104.8 / 100
p0 2.138e−06 ± 7.082e−06
pull
Entries 101
Mean 1.591e+04
Std Dev 0

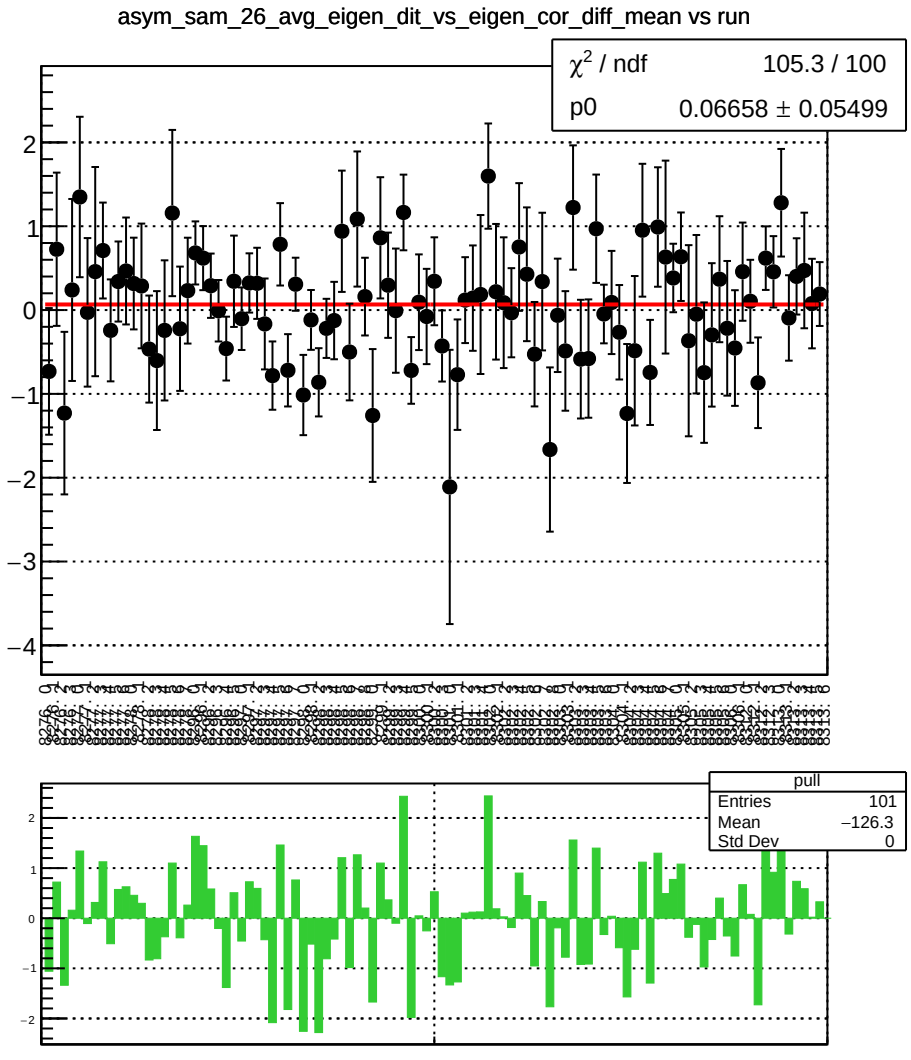

pull1D
Entries 101
Mean 8.664e−05
Std Dev 1.019

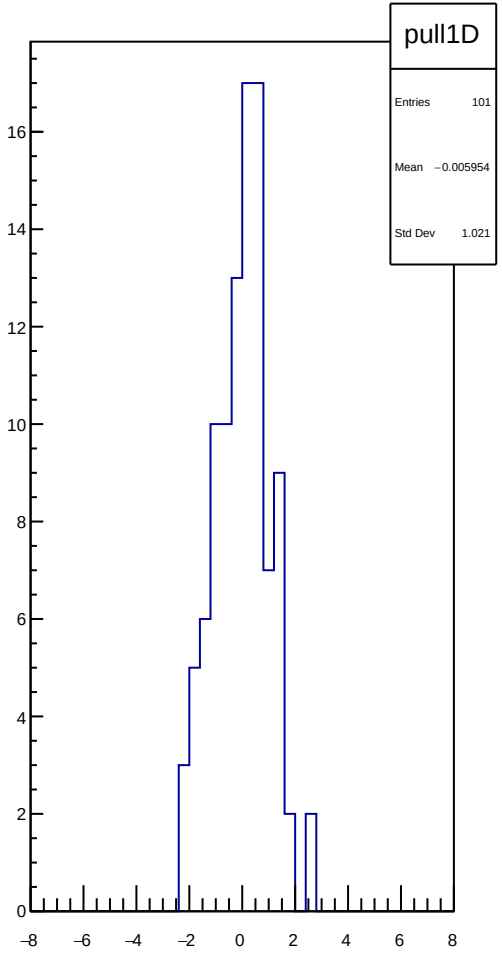

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2717 / 100
p0 0.006947 ± 5.008e−06
0.0085
0.008
0.0075
0.007
0.0065

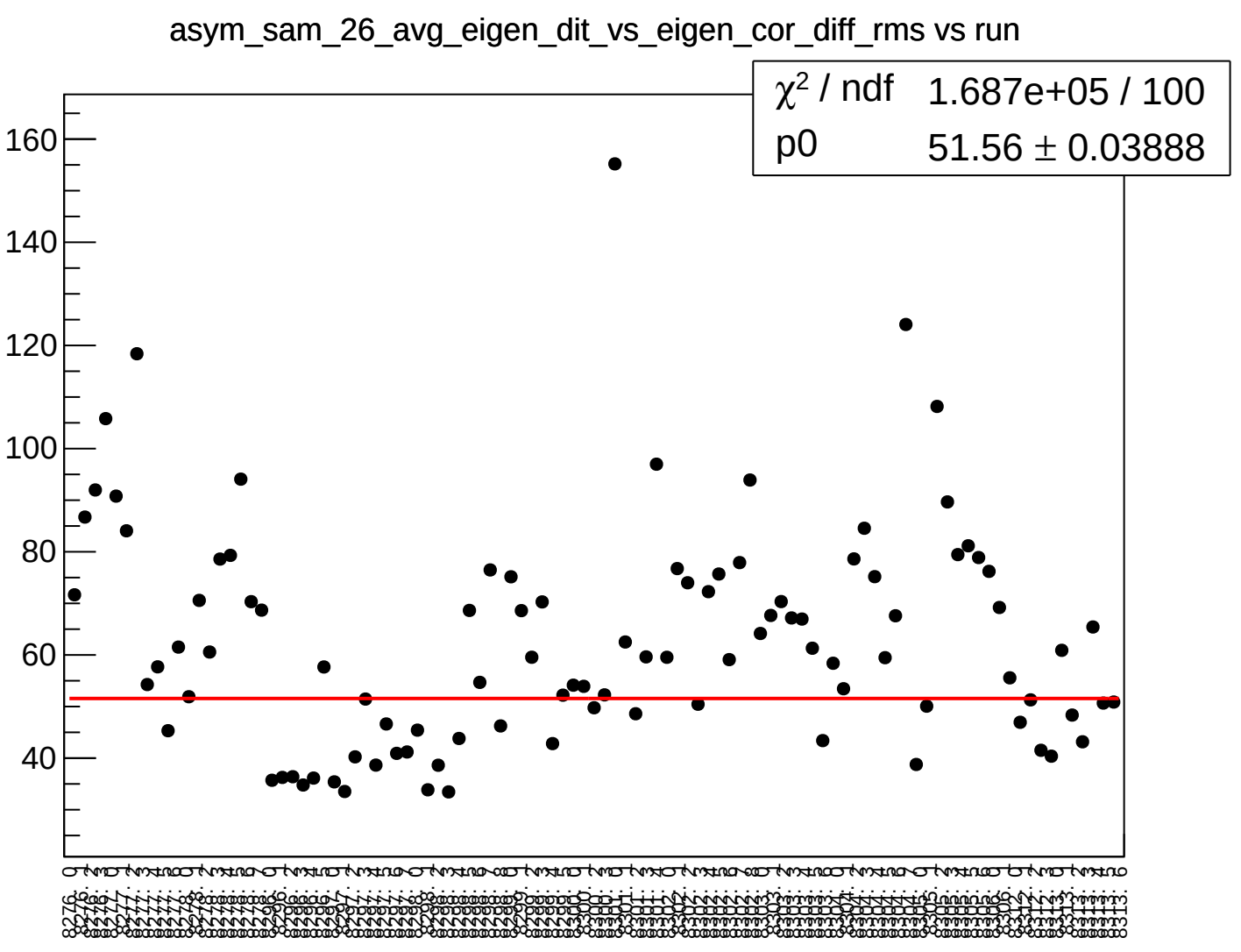

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 105.3 / 100
p0 0.06658 ± 0.05499
pull
Entries 101
Mean −126.3
Std Dev 0

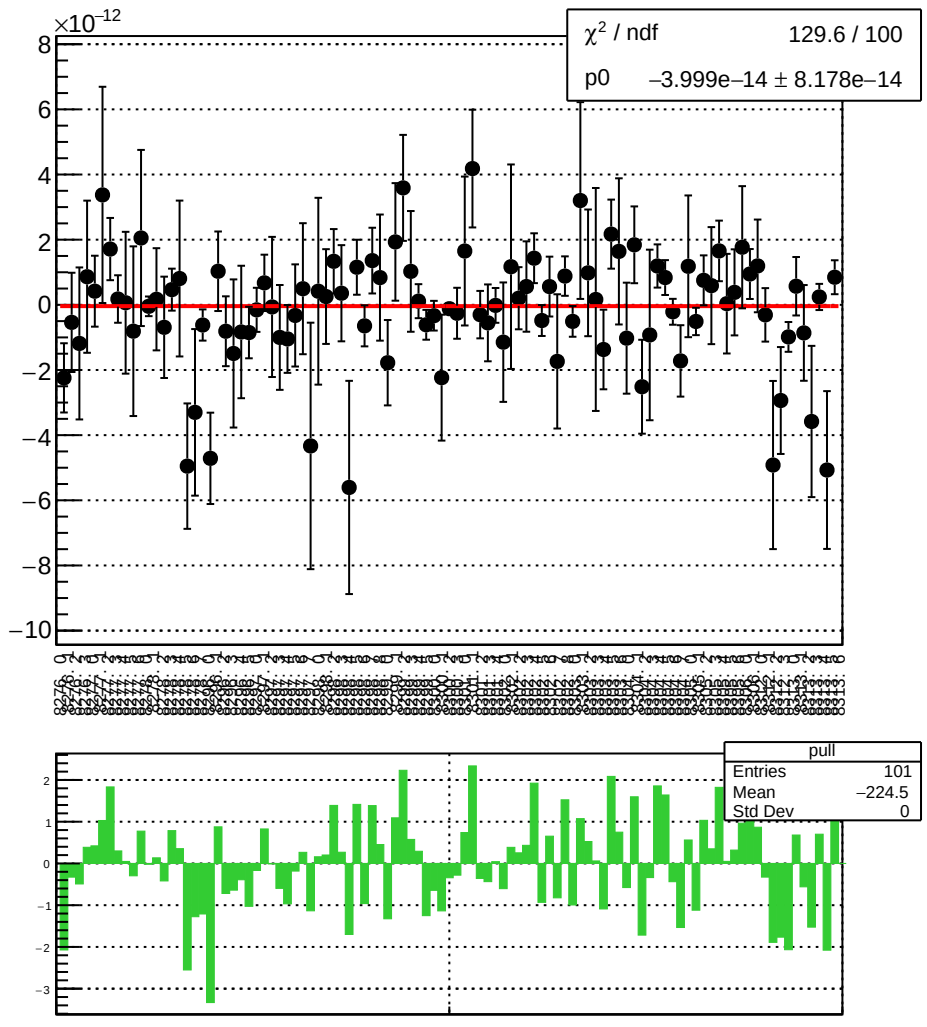

pull1D
Entries 101
Mean −0.005954
Std Dev 1.021

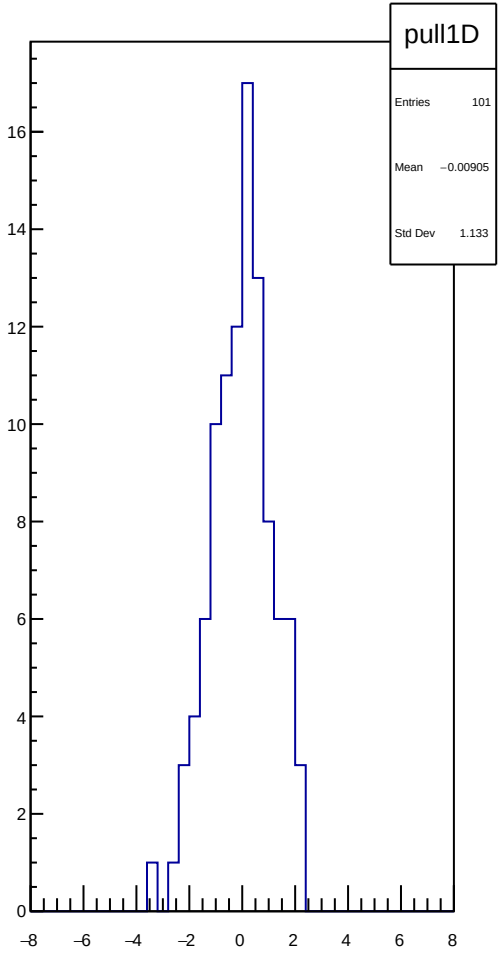

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.687e+05 / 100
p0 51.56 ± 0.03888
160
140
120
100
80
60
40

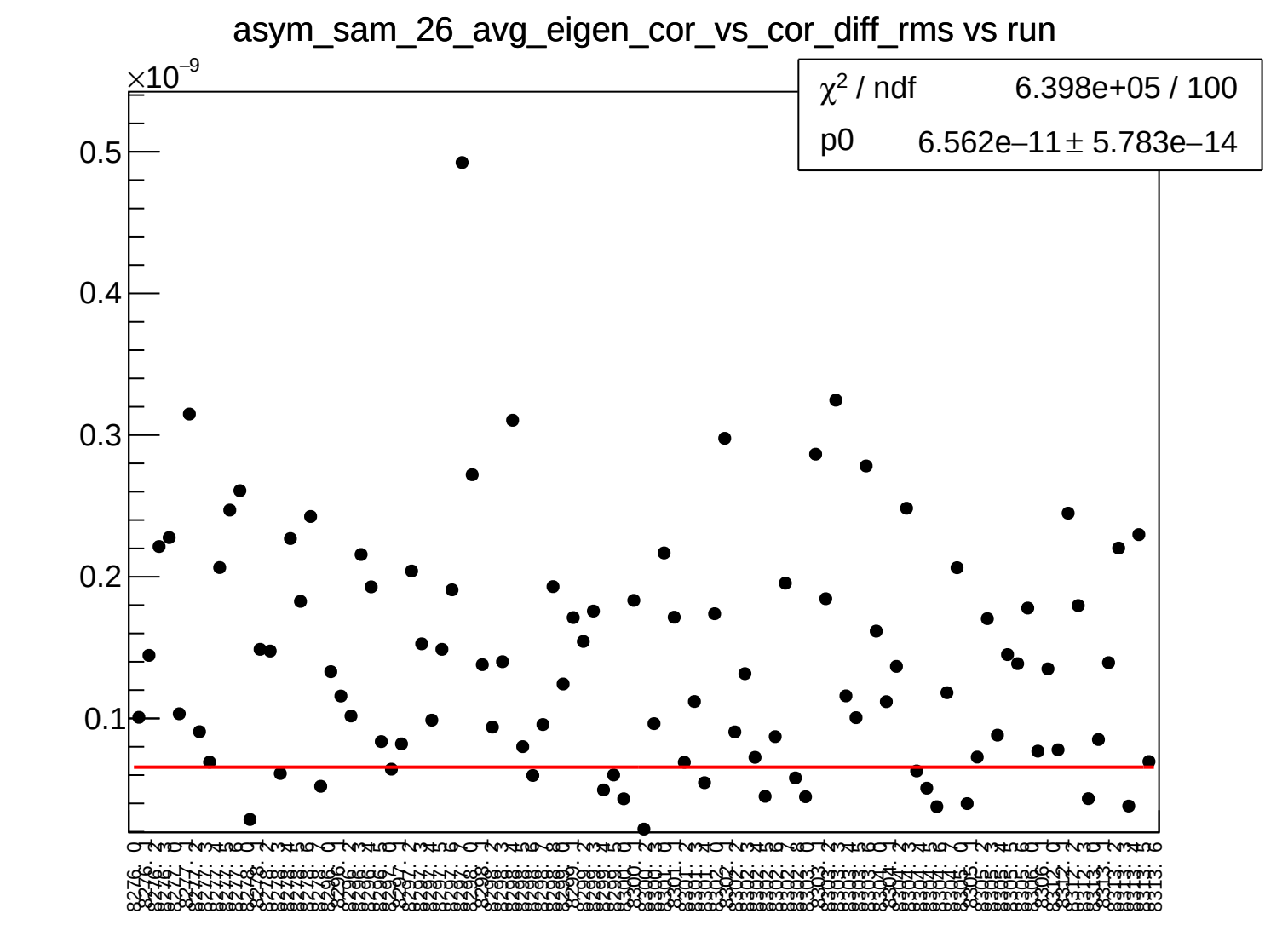

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.3 / 100
p0 0.06658 ± 0.05499
pull
Entries 101
Mean −126.3
Std Dev 0

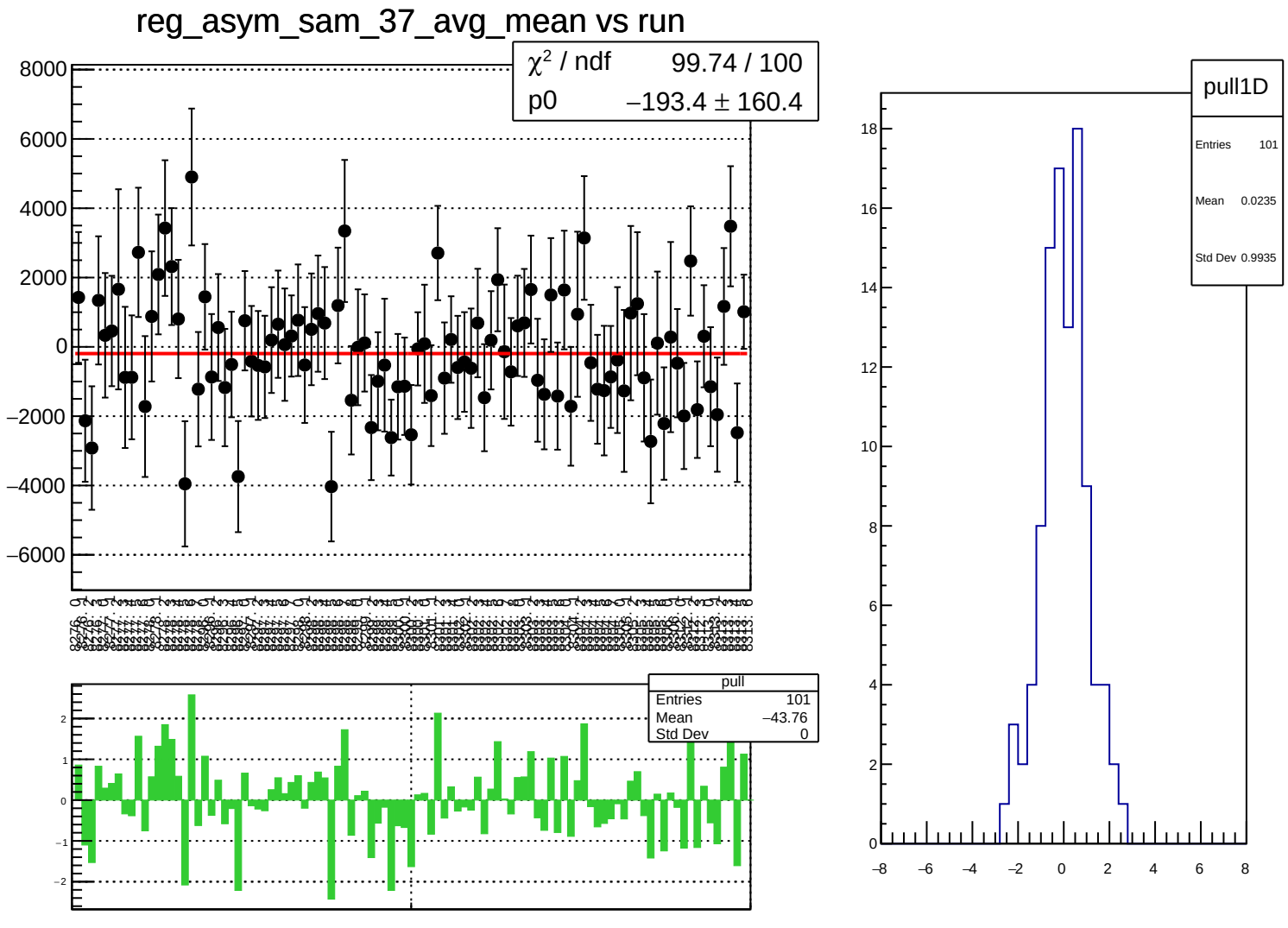

pull1D
Entries 101
Mean −0.005954
Std Dev 1.021

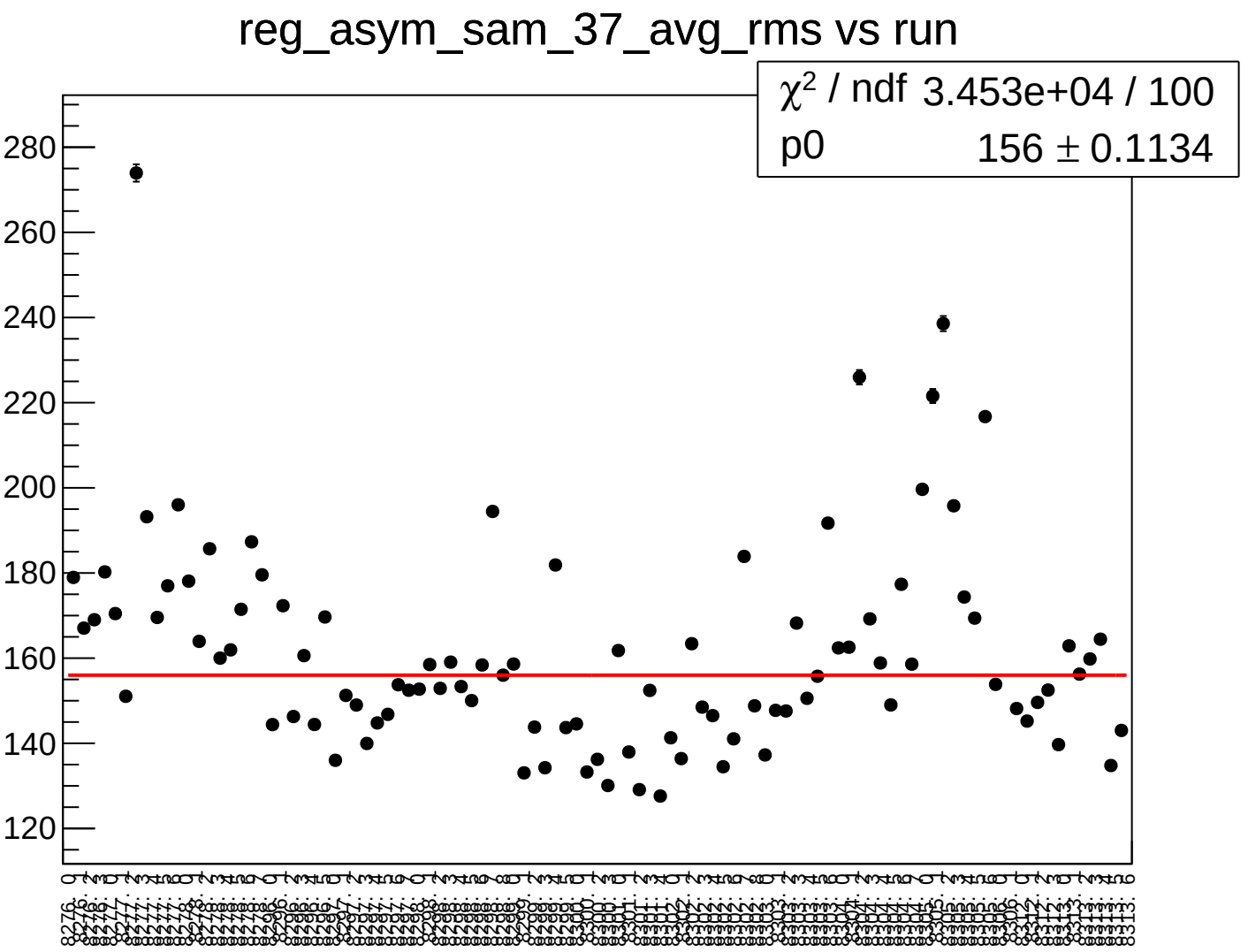

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.687e+05 / 100
p0 51.56 ± 0.03888
160
140
120
100
80
60
40

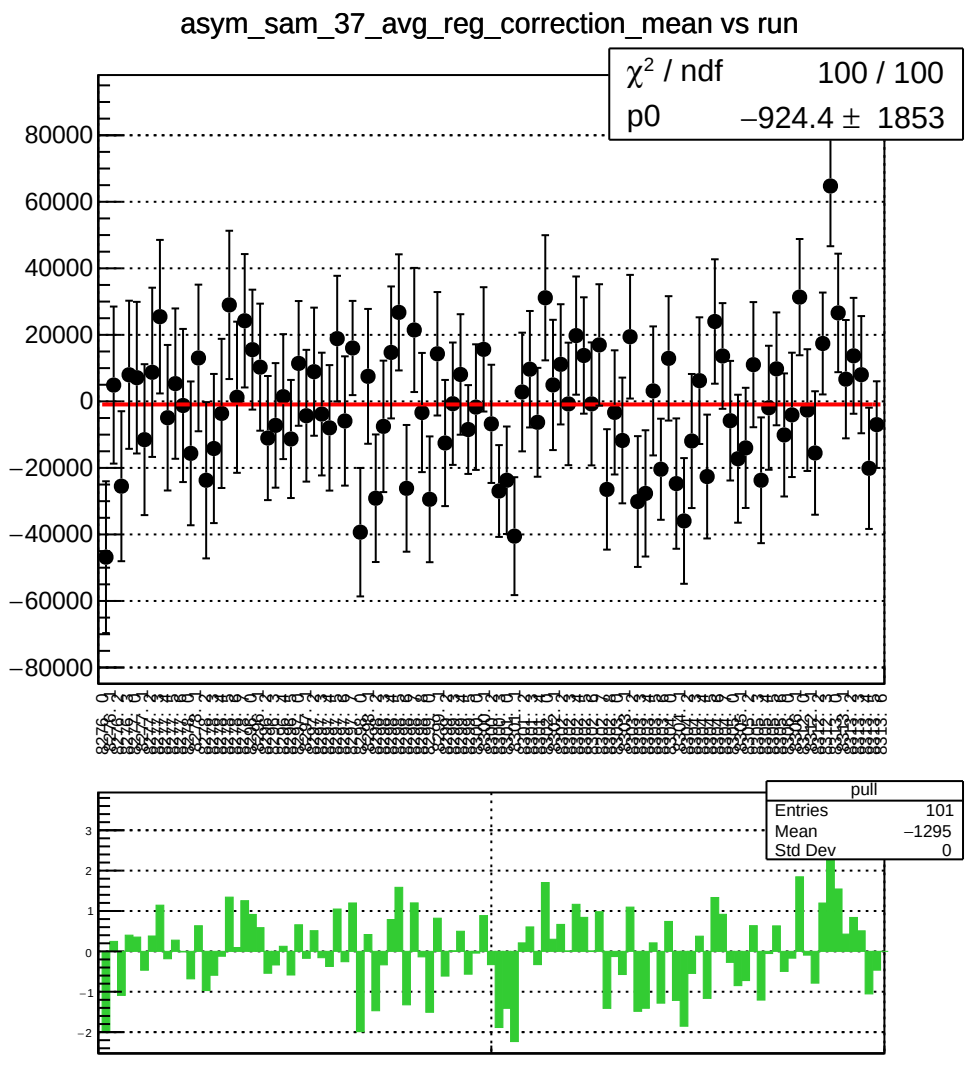

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 129.6 / 100
p0 −3.999e−14 ± 8.178e−14
pull
Entries 101
Mean −224.5
Std Dev 0

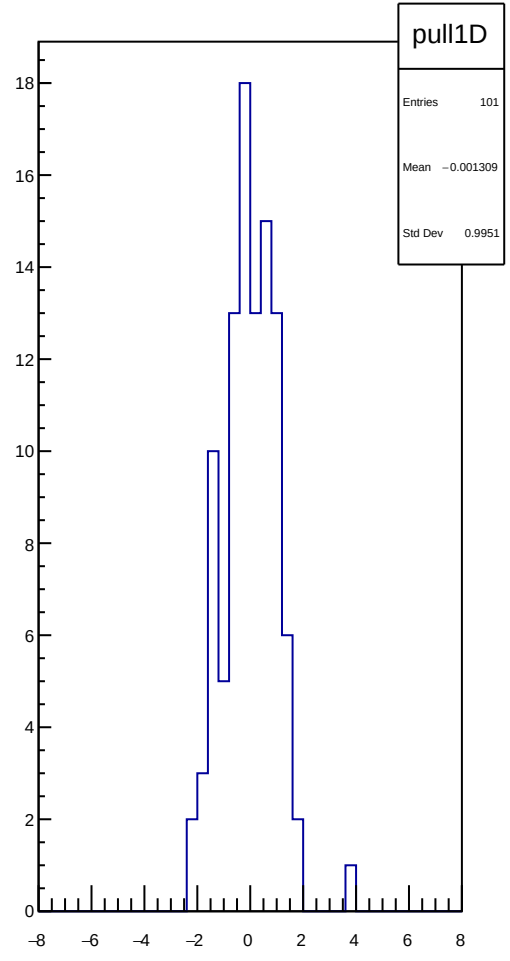

pull1D
Entries 101
Mean −0.00905
Std Dev 1.133

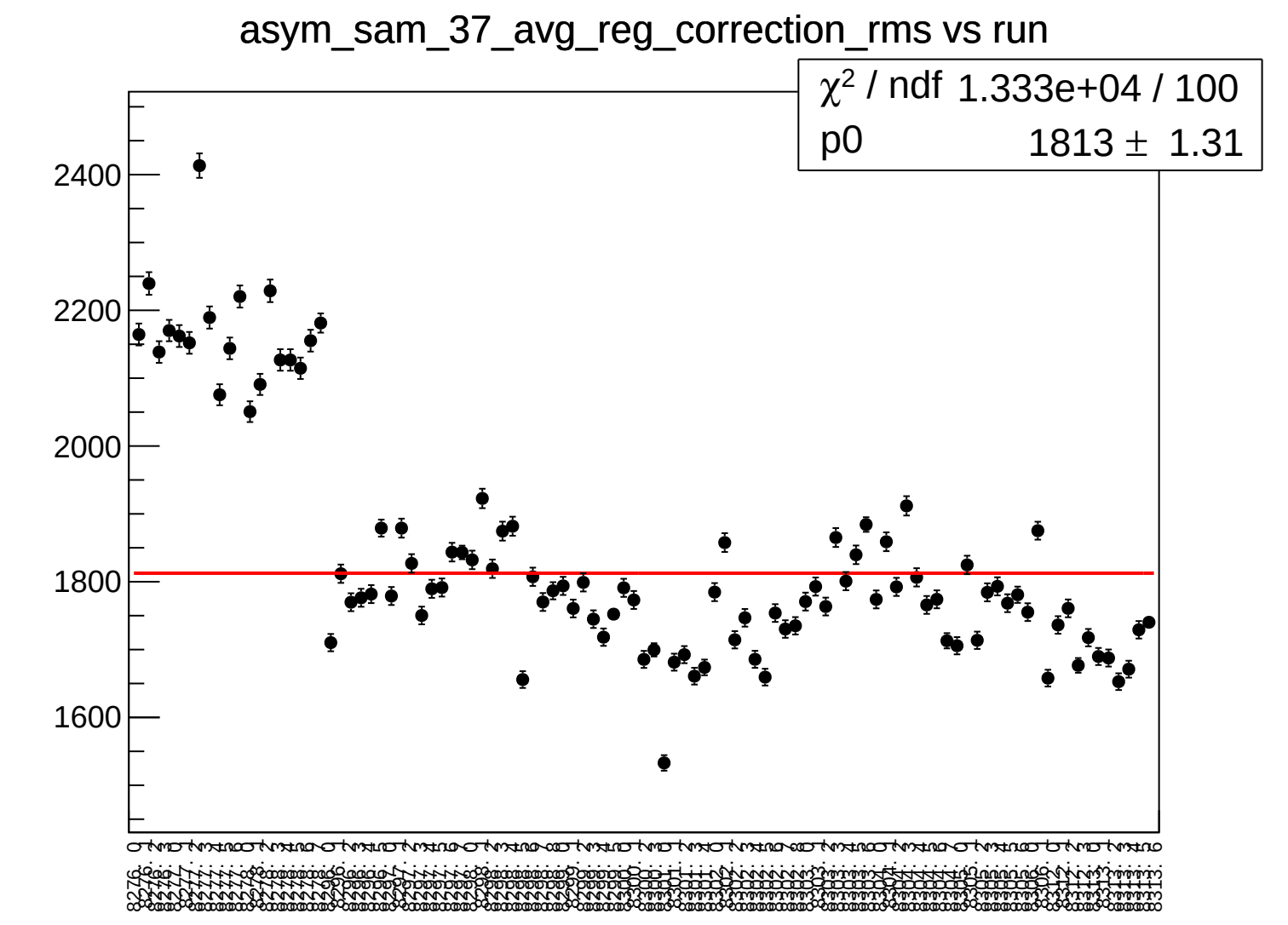

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.398e+05 / 100
p0 6.562e−11 ± 5.783e−14
0.5
0.4
0.3
0.2
0.1

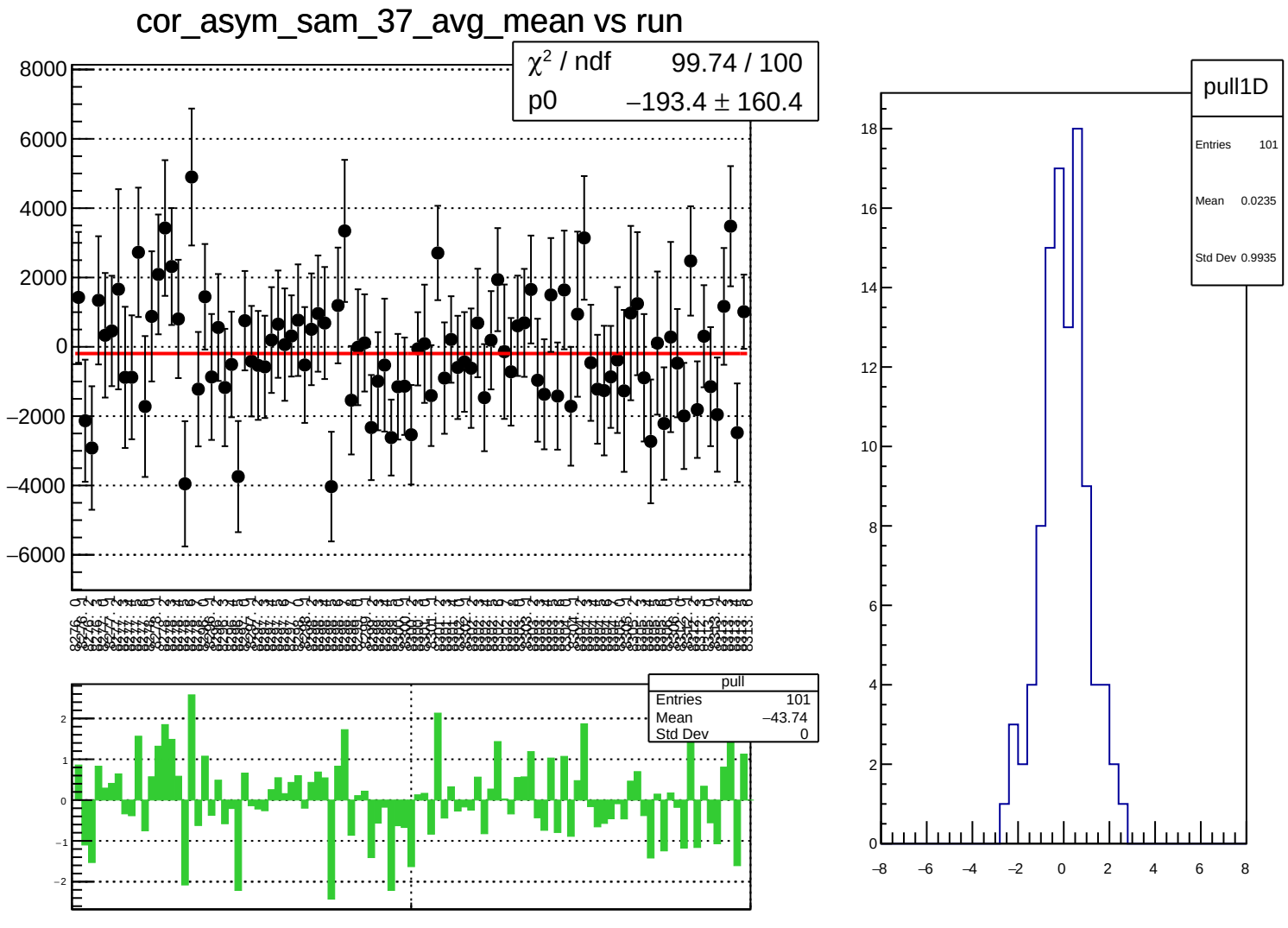

reg_asym_sam_37_avg_mean vs run
χ² / ndf 99.74 / 100
p0 −193.4 ± 160.4
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 101
Mean −43.76
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.0235
Std Dev 0.9935
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

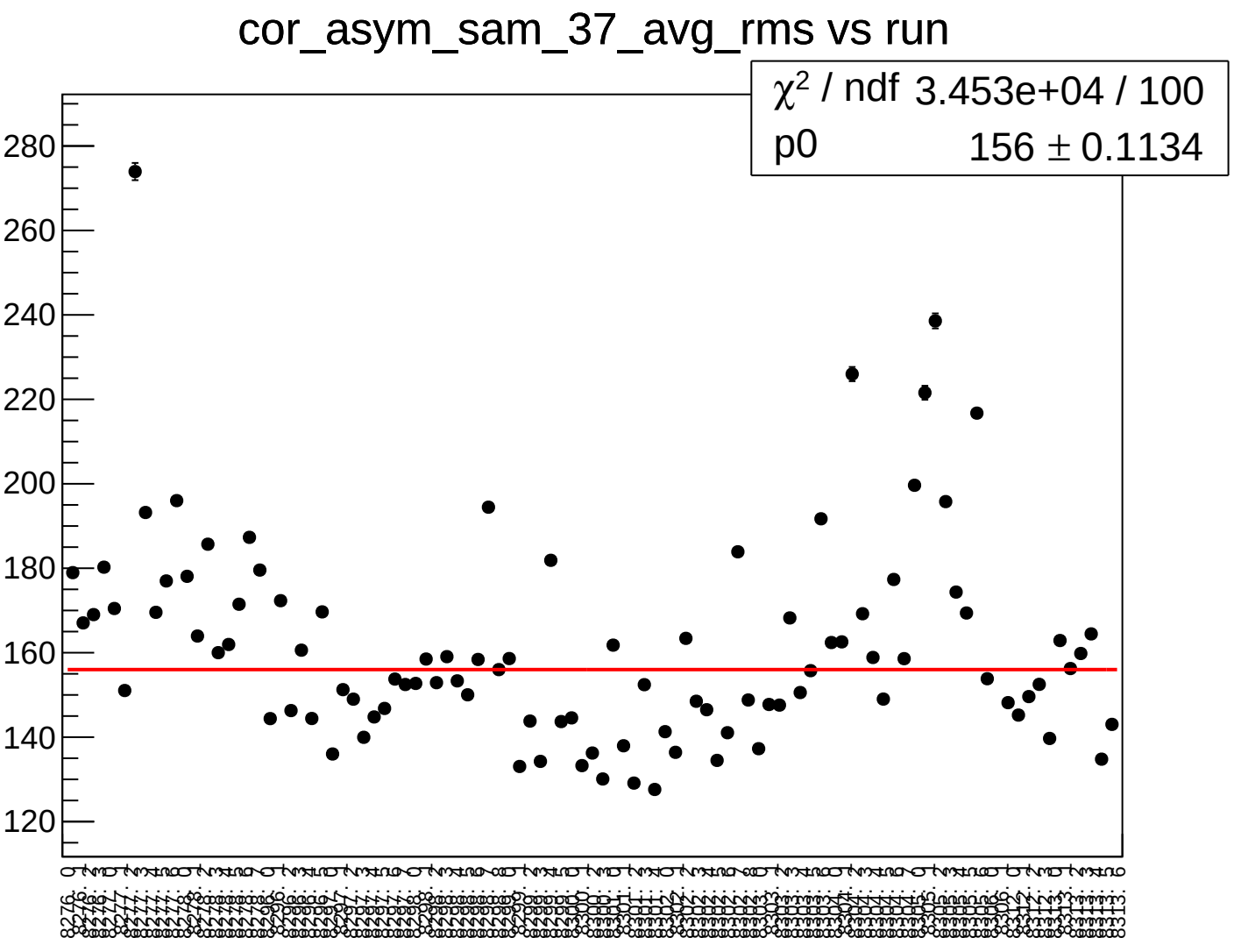

reg_asym_sam_37_avg_rms vs run
χ² / ndf 3.453e+04 / 100
p0 156 ± 0.1134
280
260
240
220
200
180
160
140
120

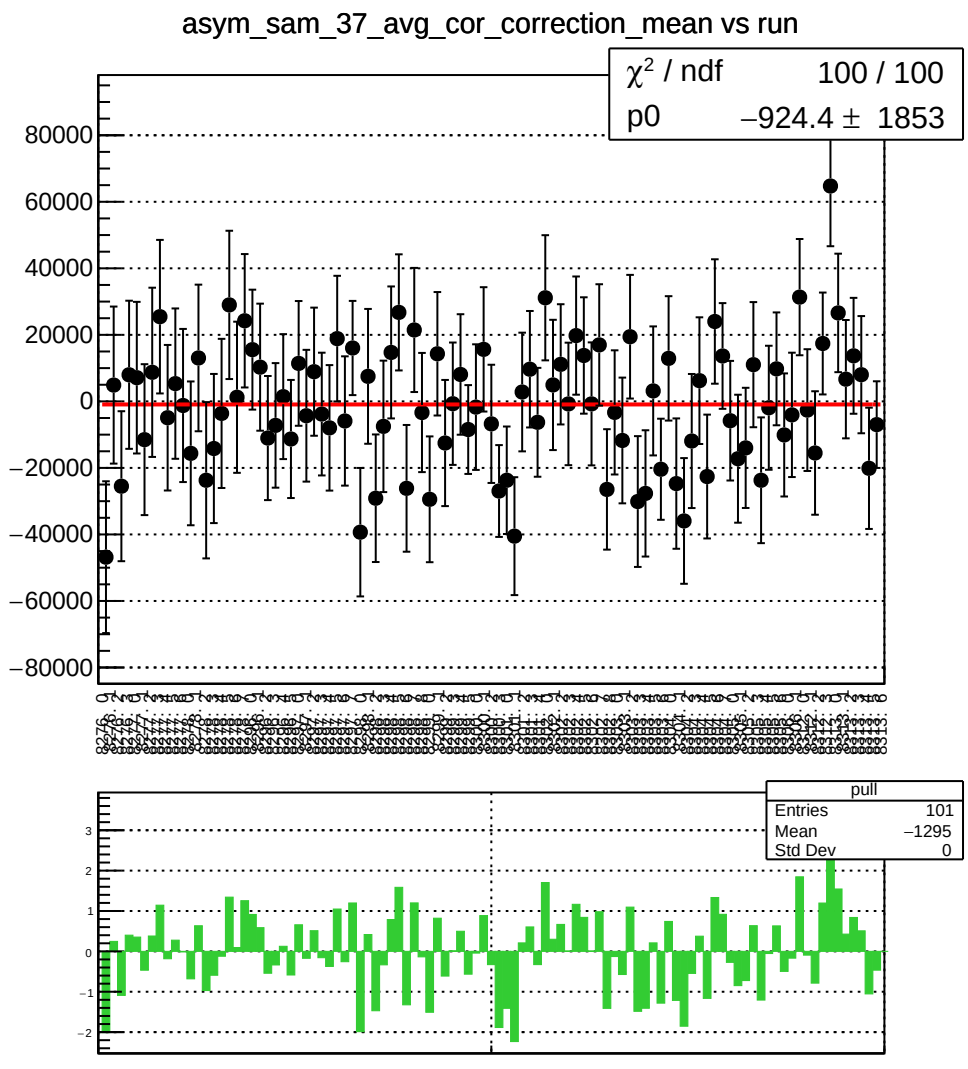

asym_sam_37_avg_reg_correction_mean vs run
χ² / ndf 100 / 100
p0 −924.4 ± 1853
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 101
Mean −1295
Std Dev 0
3
2
1
0
−1
−2

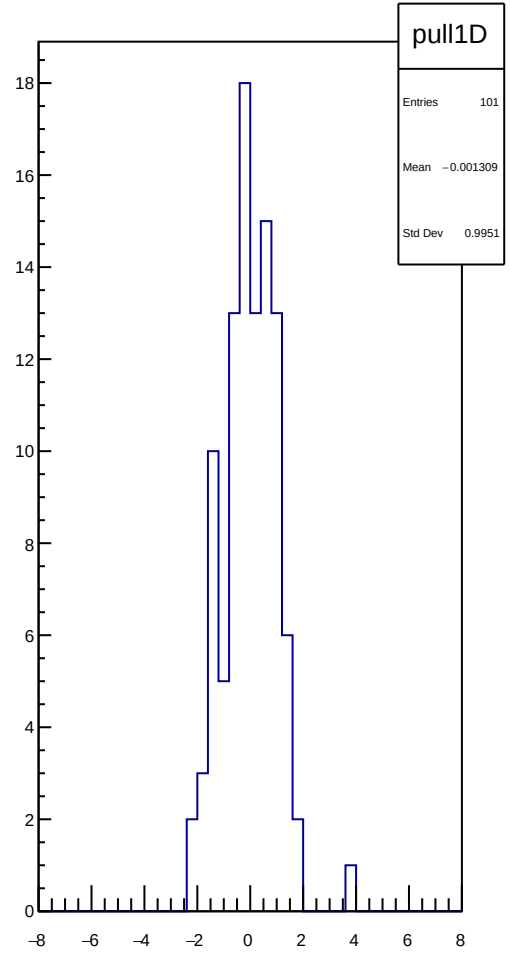

pull1D
Entries 101
Mean −0.001309
Std Dev 0.9951
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

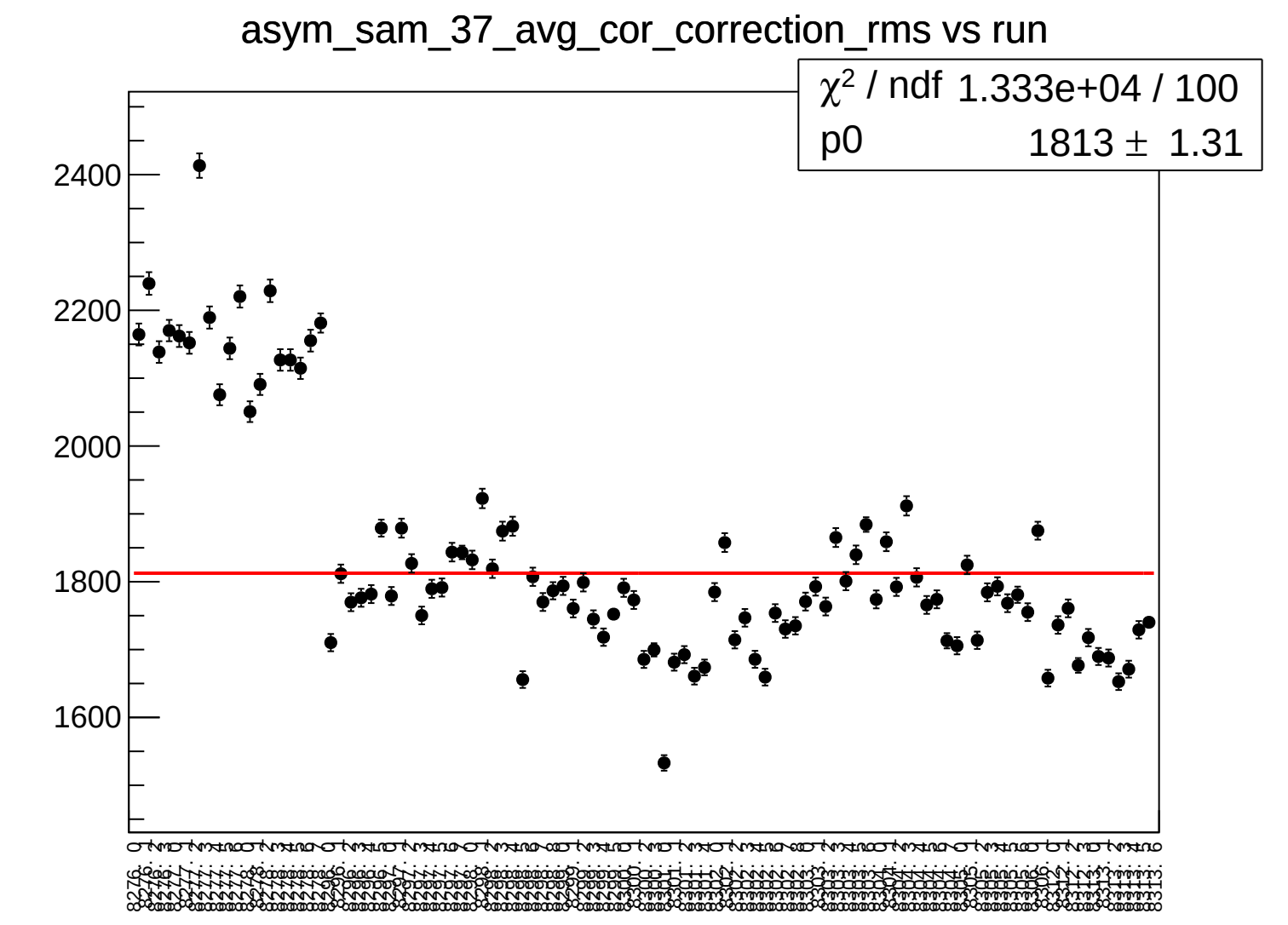

asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 1.333e+04 / 100
p0 1813 ± 1.31
2400
2200
2000
1800
1600

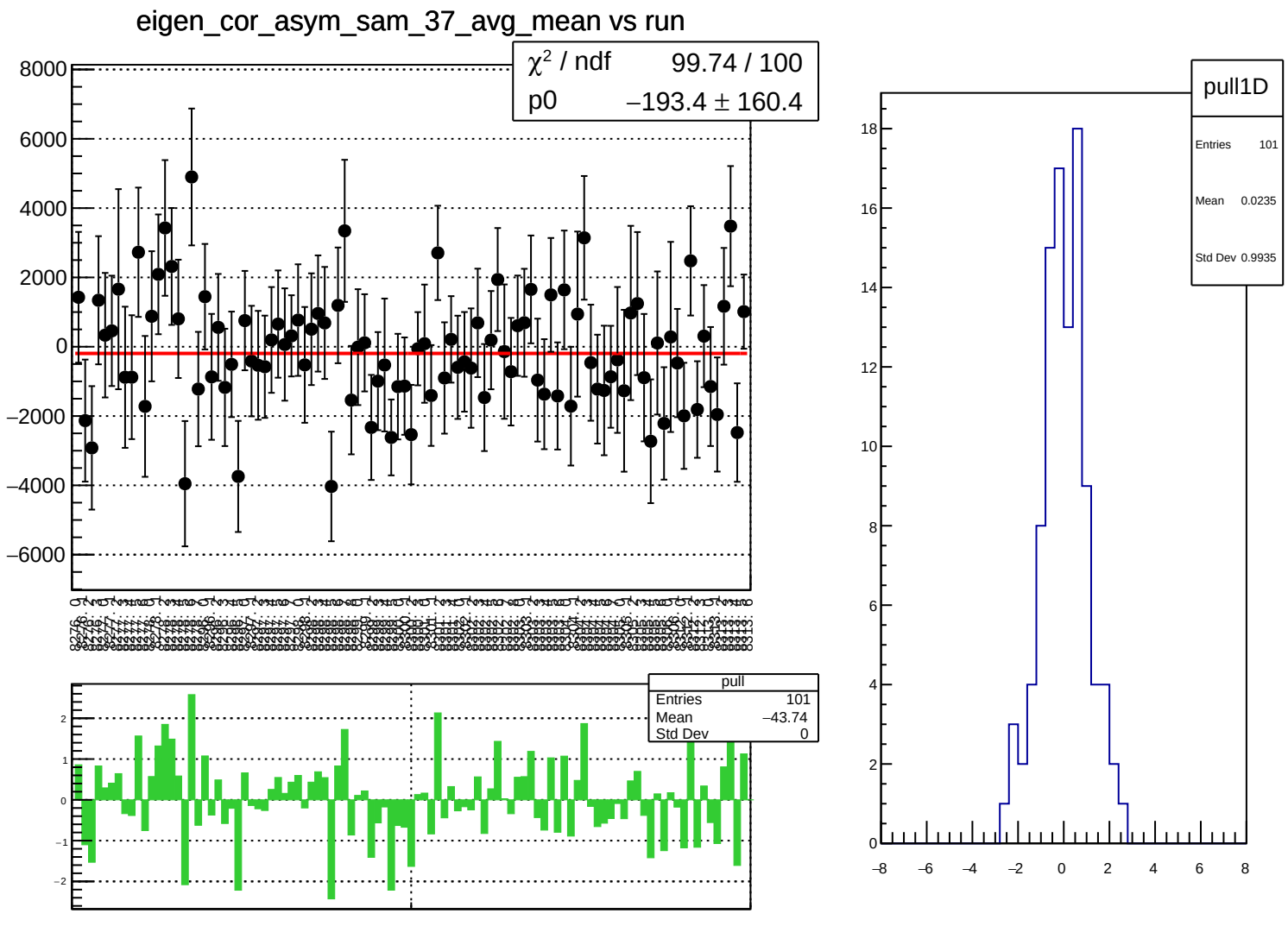

cor_asym_sam_37_avg_mean vs run
χ² / ndf 99.74 / 100
p0 −193.4 ± 160.4
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 101
Mean −43.74
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.0235
Std Dev 0.9935
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

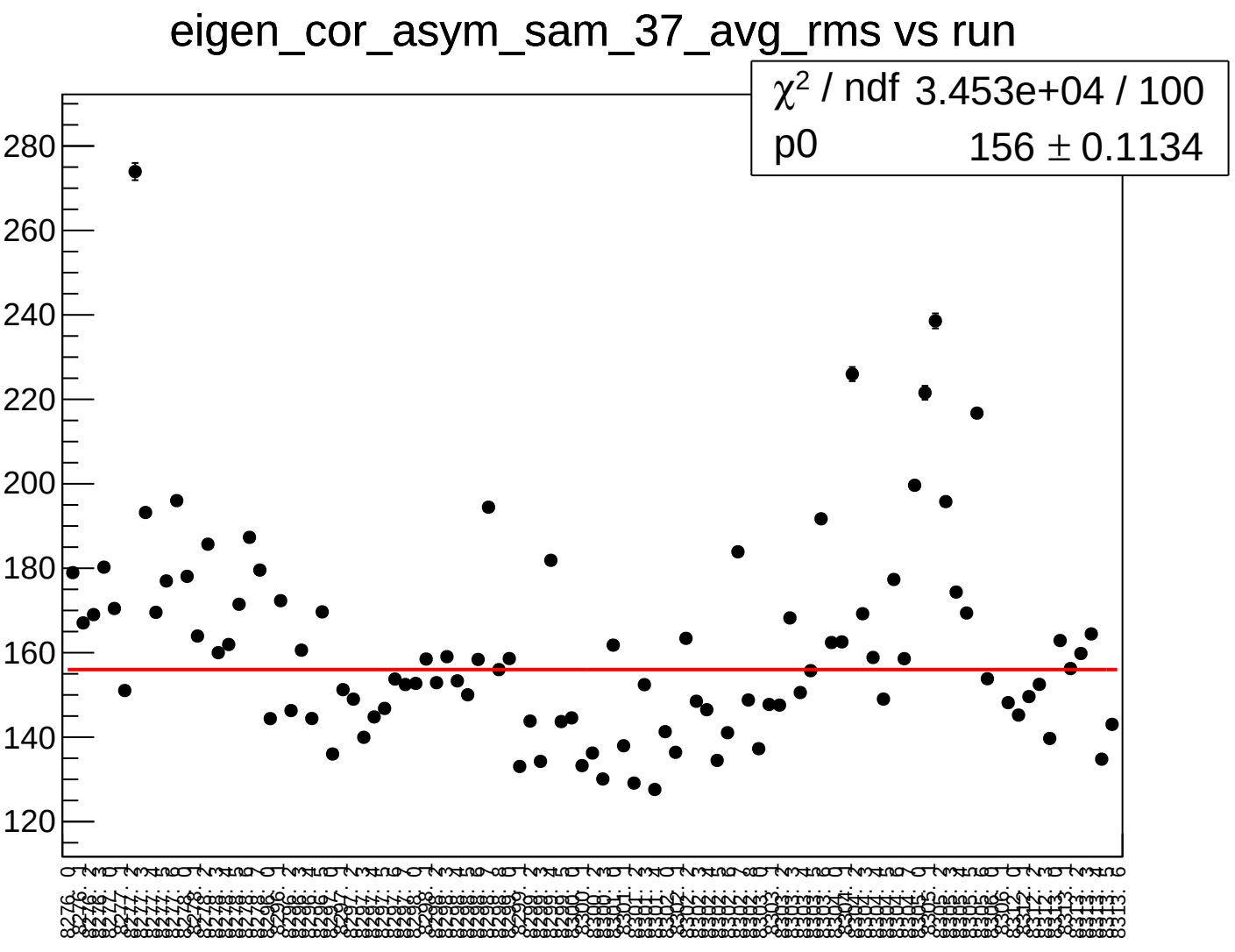

cor_asym_sam_37_avg_rms vs run
χ² / ndf 3.453e+04 / 100
p0 156 ± 0.1134
280
260
240
220
200
180
160
140
120

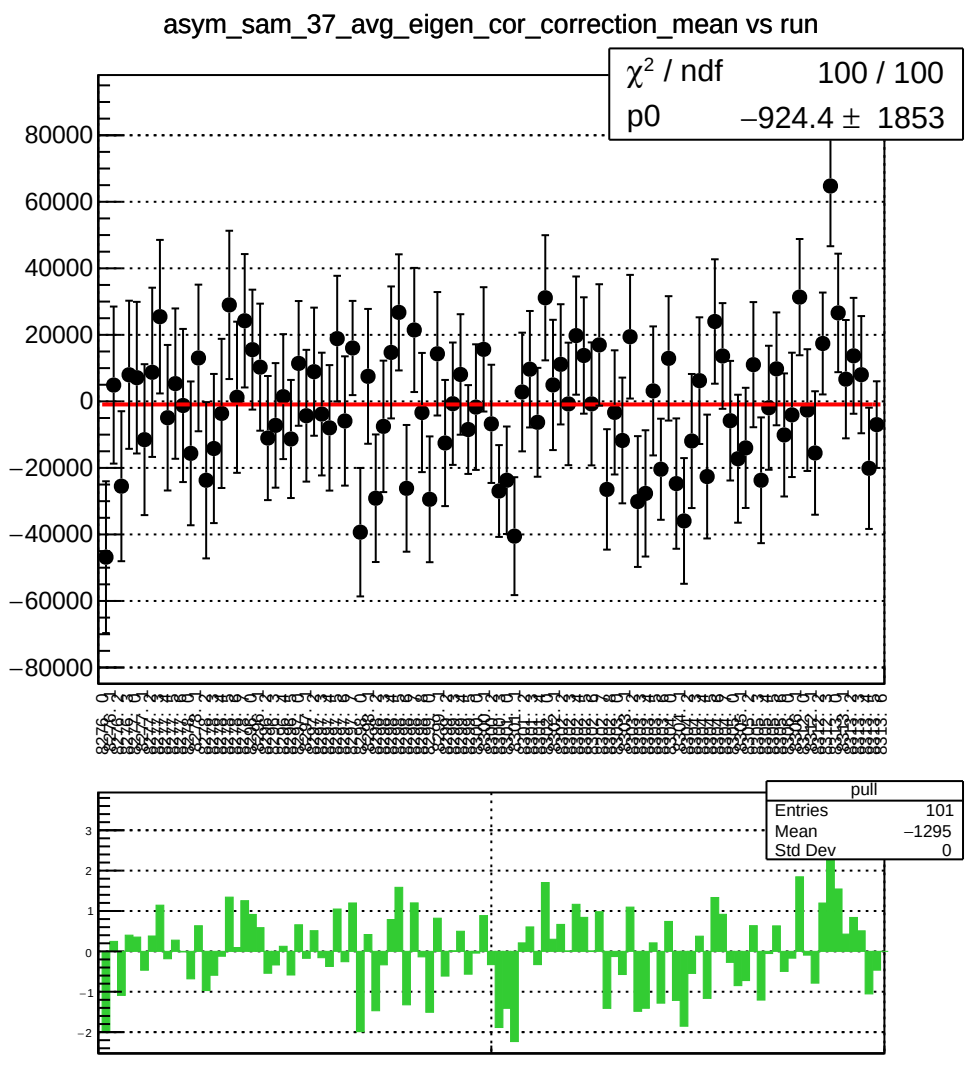

asym_sam_37_avg_cor_correction_mean vs run
χ² / ndf 100 / 100
p0 −924.4 ± 1853
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 101
Mean −1295
Std Dev 0
3
2
1
0
−1
−2

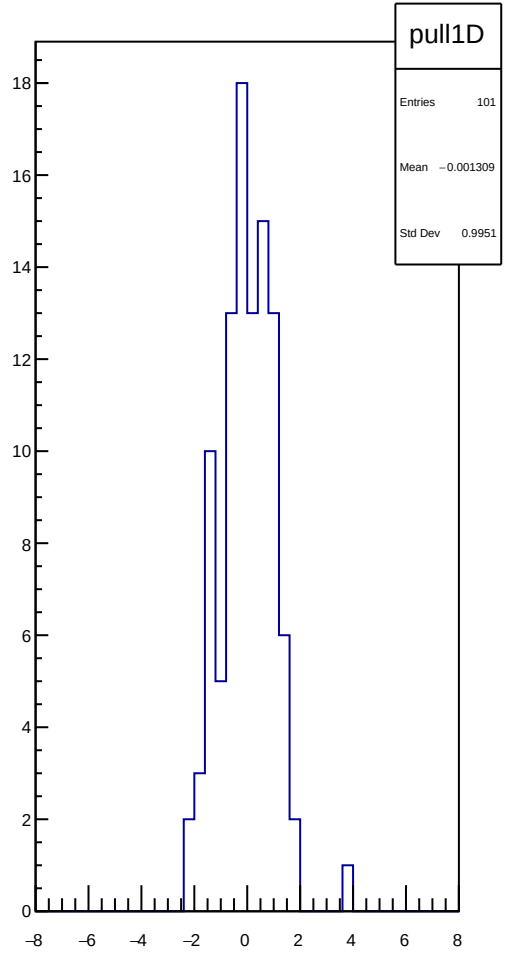

pull1D
Entries 101
Mean −0.001309
Std Dev 0.9951
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

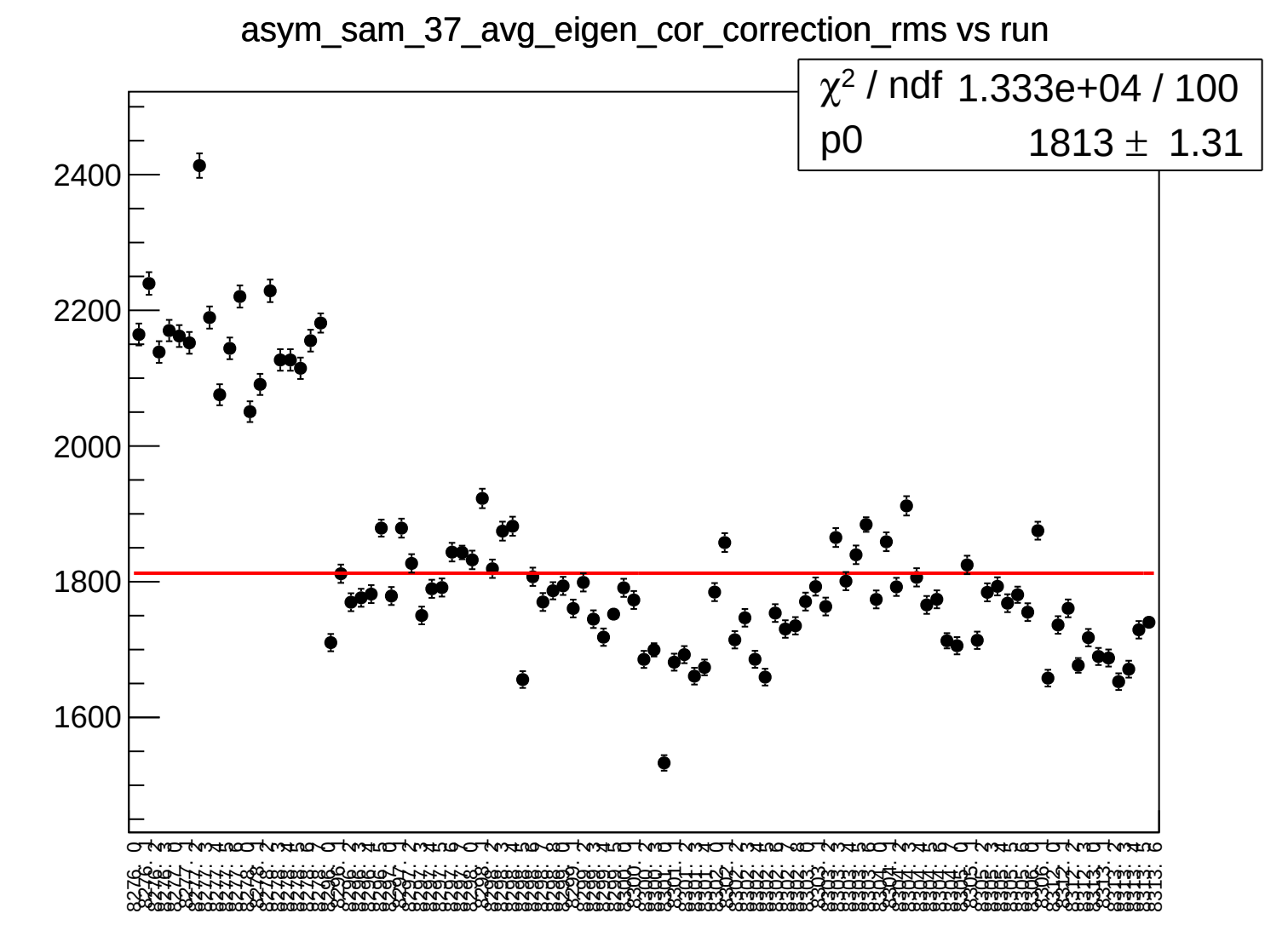

asym_sam_37_avg_cor_correction_rms vs run
χ² / ndf 1.333e+04 / 100
p0 1813 ± 1.31
2400
2200
2000
1800
1600

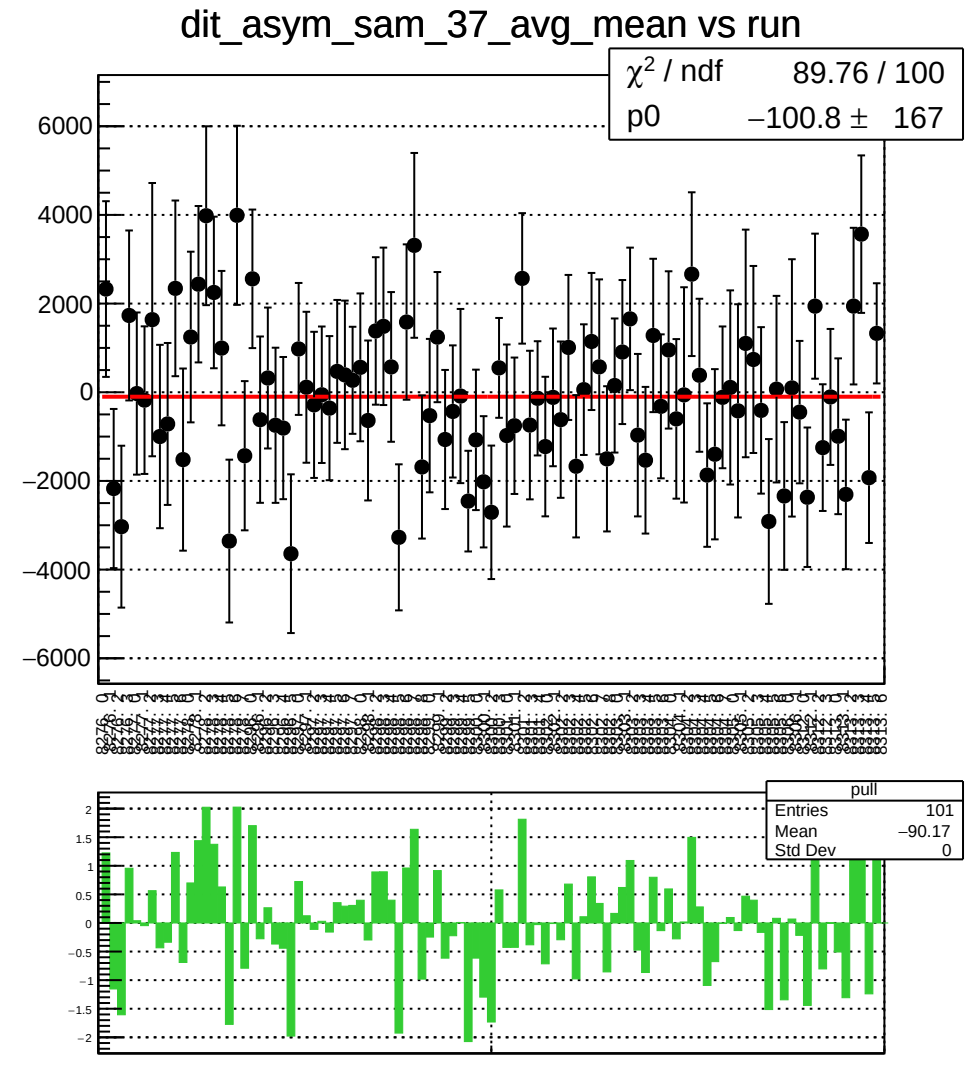

eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 99.74 / 100
p0 −193.4 ± 160.4
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 101
Mean −43.74
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.0235
Std Dev 0.9935
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

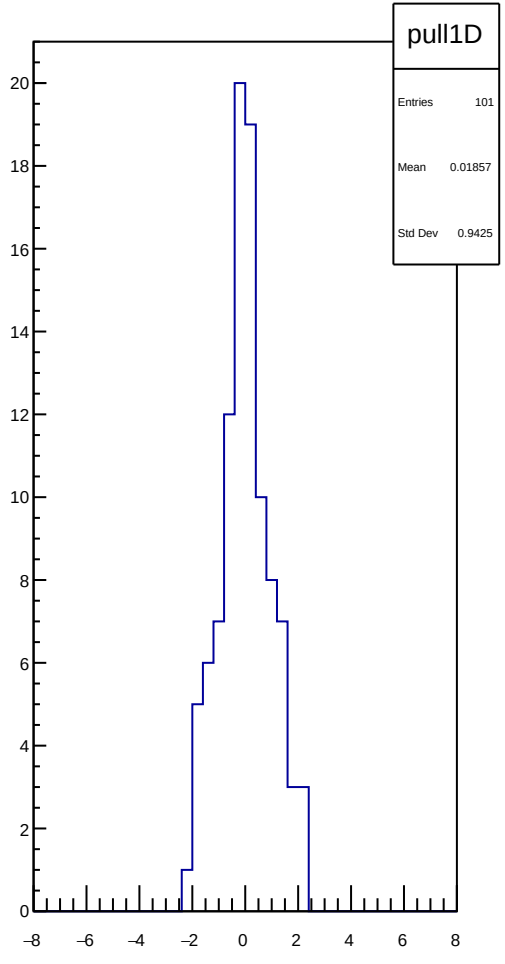

eigen_cor_asym_sam_37_avg_rms vs run
χ^2 / ndf 3.453e+04 / 100
p0 156 ± 0.1134
280
260
240
220
200
180
160
140
120

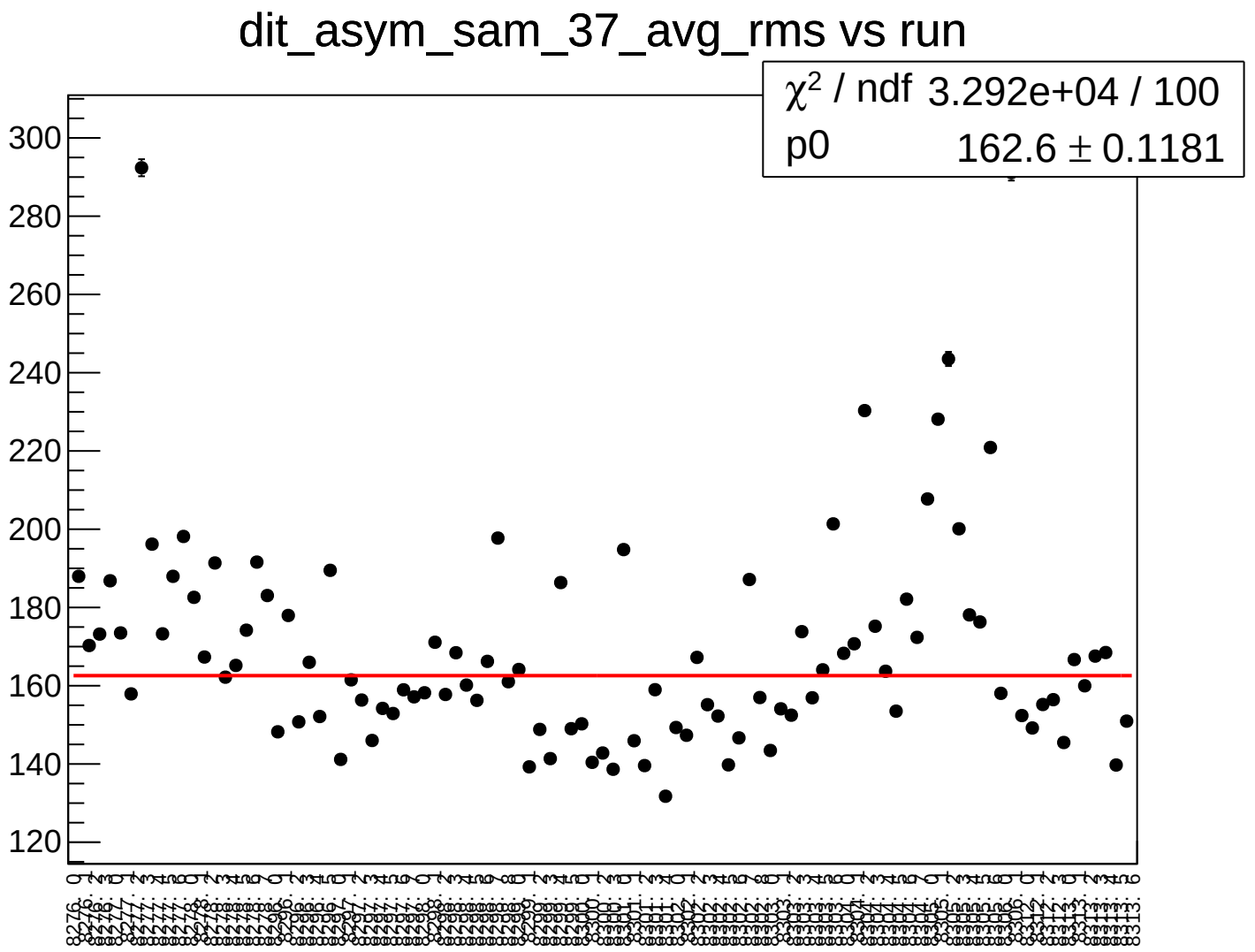

asym_sam_37_avg_eigen_cor_correction_mean vs run
χ² / ndf 100 / 100
p0 −924.4 ± 1853
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 101
Mean −1295
Std Dev 0
3
2
1
0
−1
−2

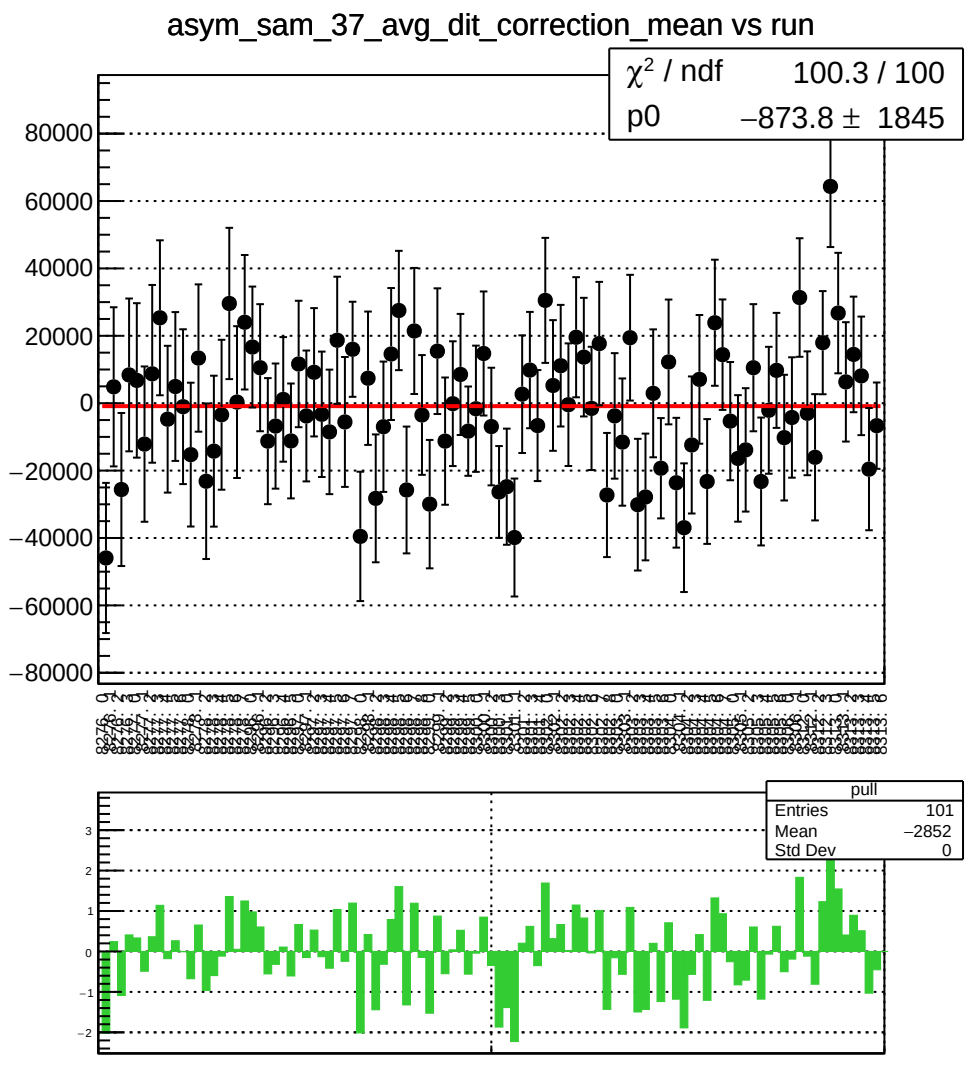

pull1D
Entries 101
Mean −0.001309
Std Dev 0.9951
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

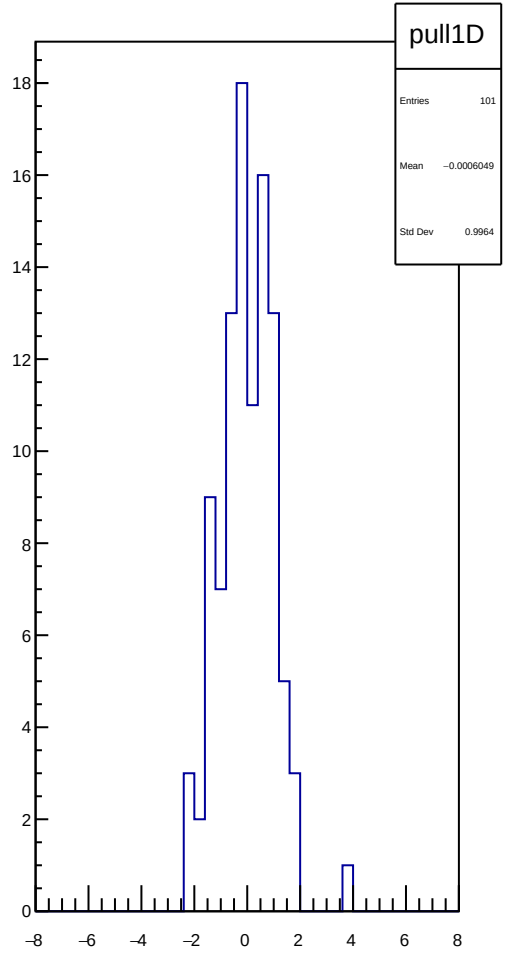

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.333e+04 / 100
p0 1813 ± 1.31
2400
2200
2000
1800
1600

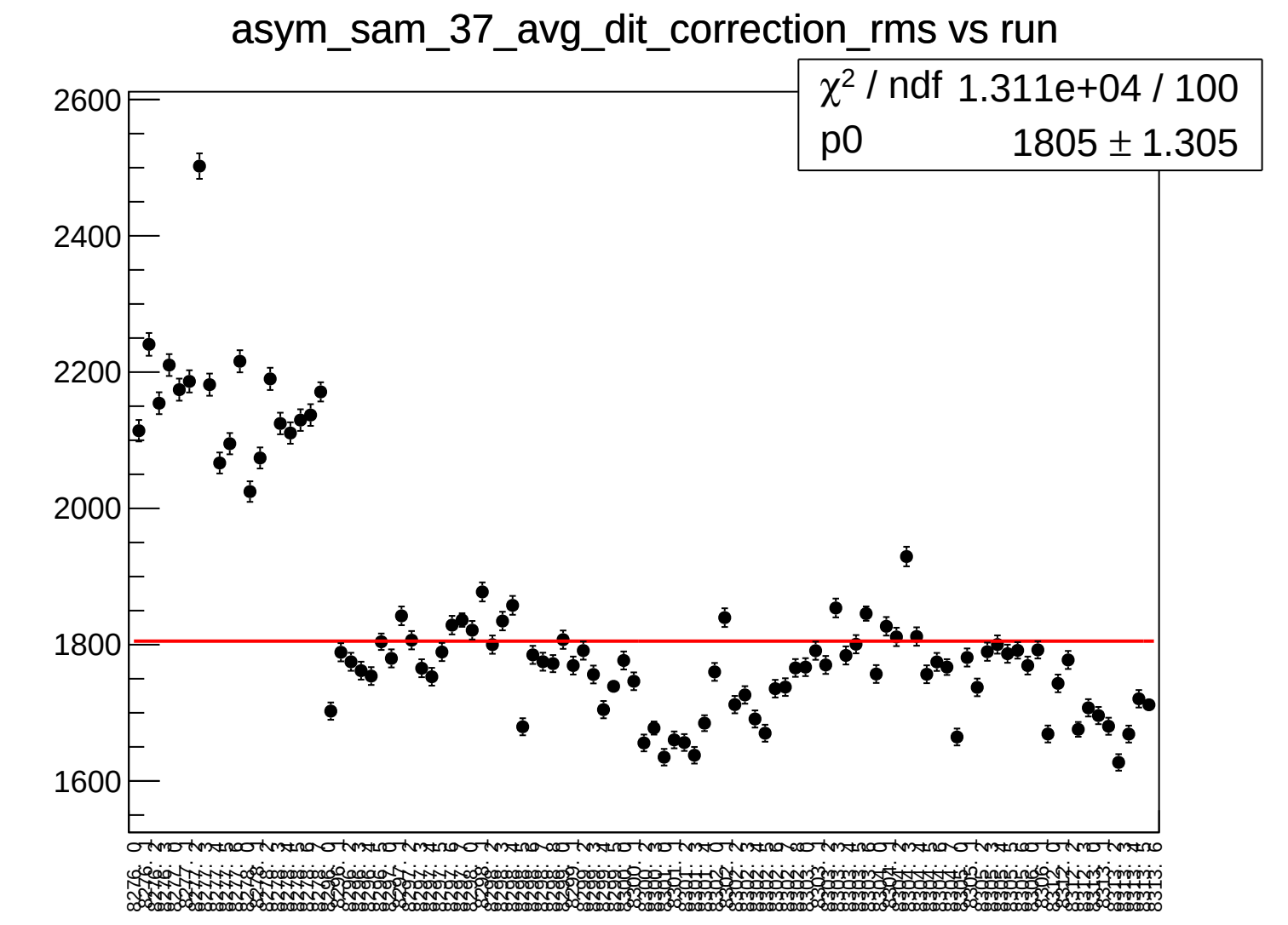

dit_asym_sam_37_avg_mean vs run
χ² / ndf 89.76 / 100
p0 −100.8 ± 167
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 101
Mean −90.17
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

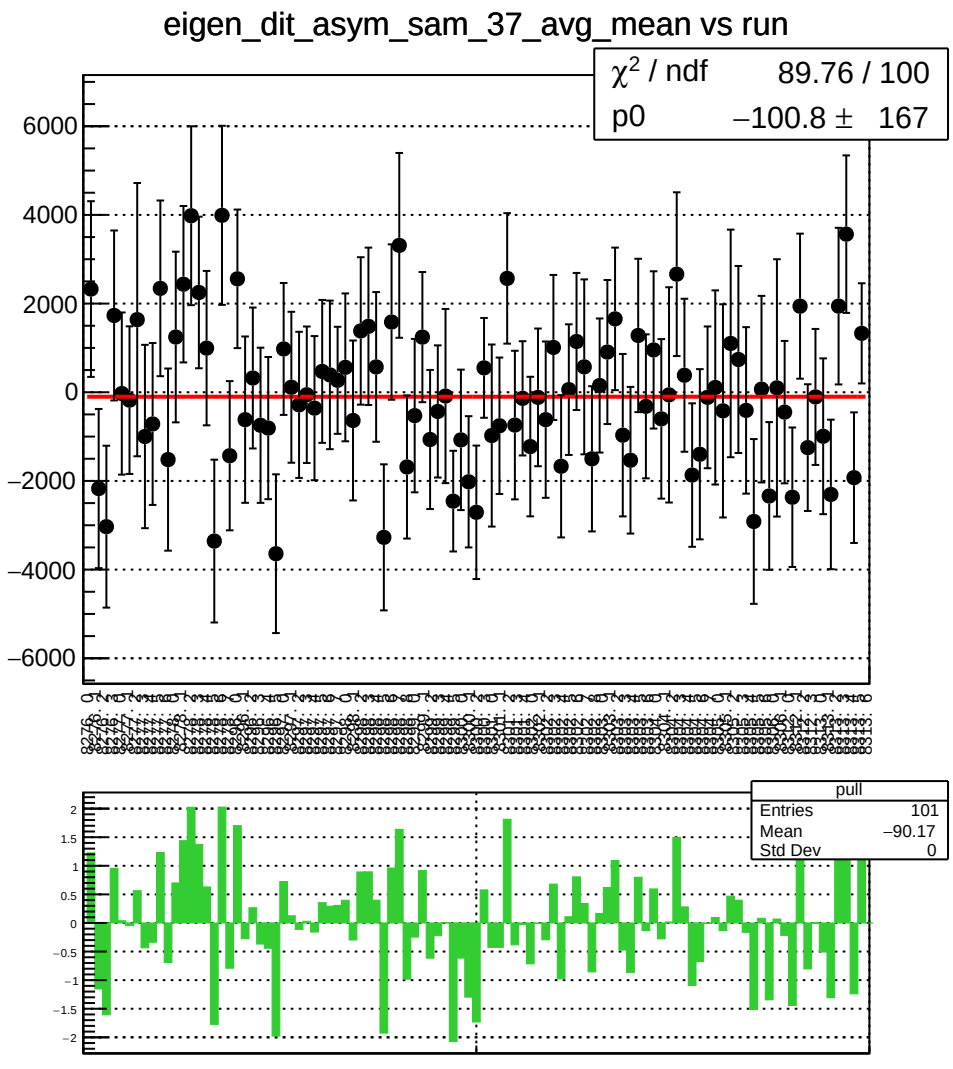

pull1D
Entries 101
Mean 0.01857
Std Dev 0.9425
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

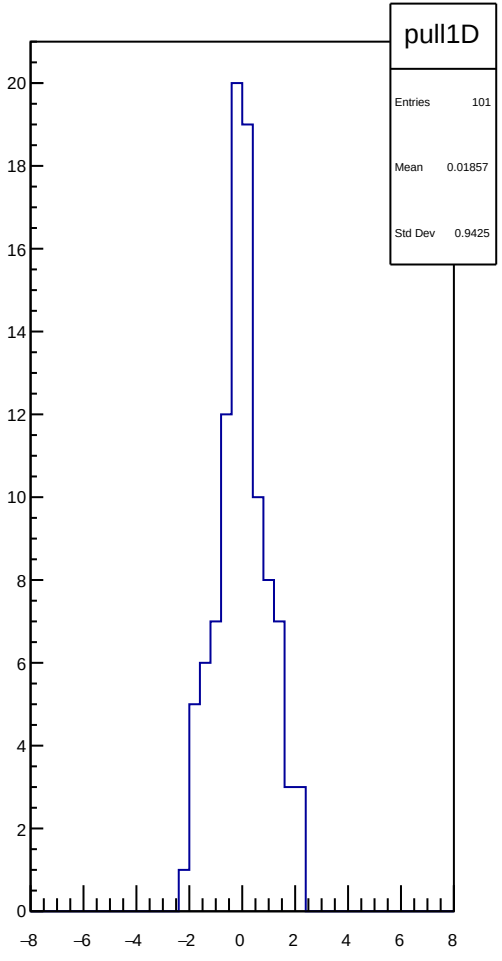

dit_asym_sam_37_avg_rms vs run
χ² / ndf 3.292e+04 / 100
p0 162.6 ± 0.1181
300
280
260
240
220
200
180
160
140
120

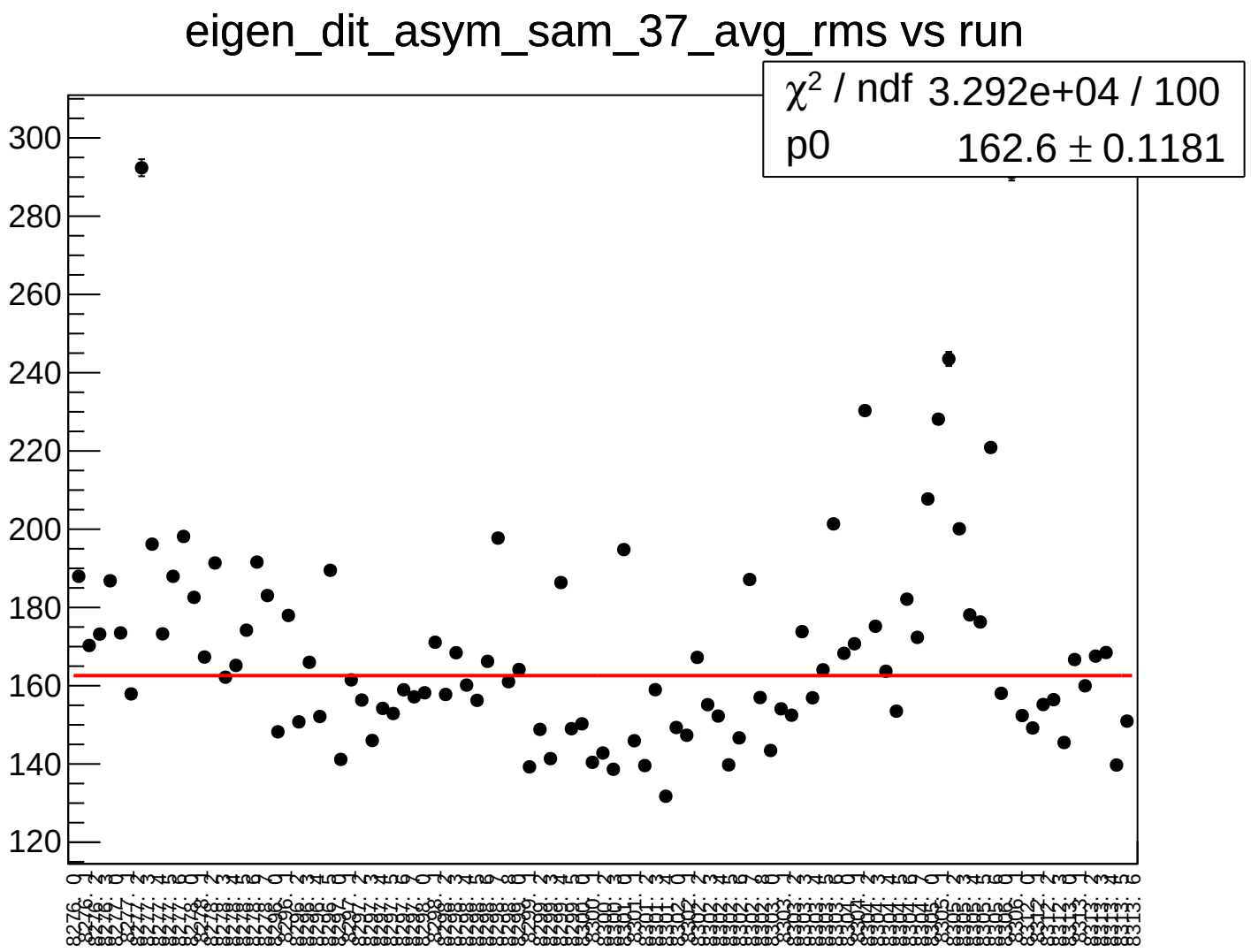

asym_sam_37_avg_dit_correction_mean vs run
χ² / ndf 100.3 / 100
p0 −873.8 ± 1845
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 101
Mean −2852
Std Dev 0
3
2
1
0
−1
−2

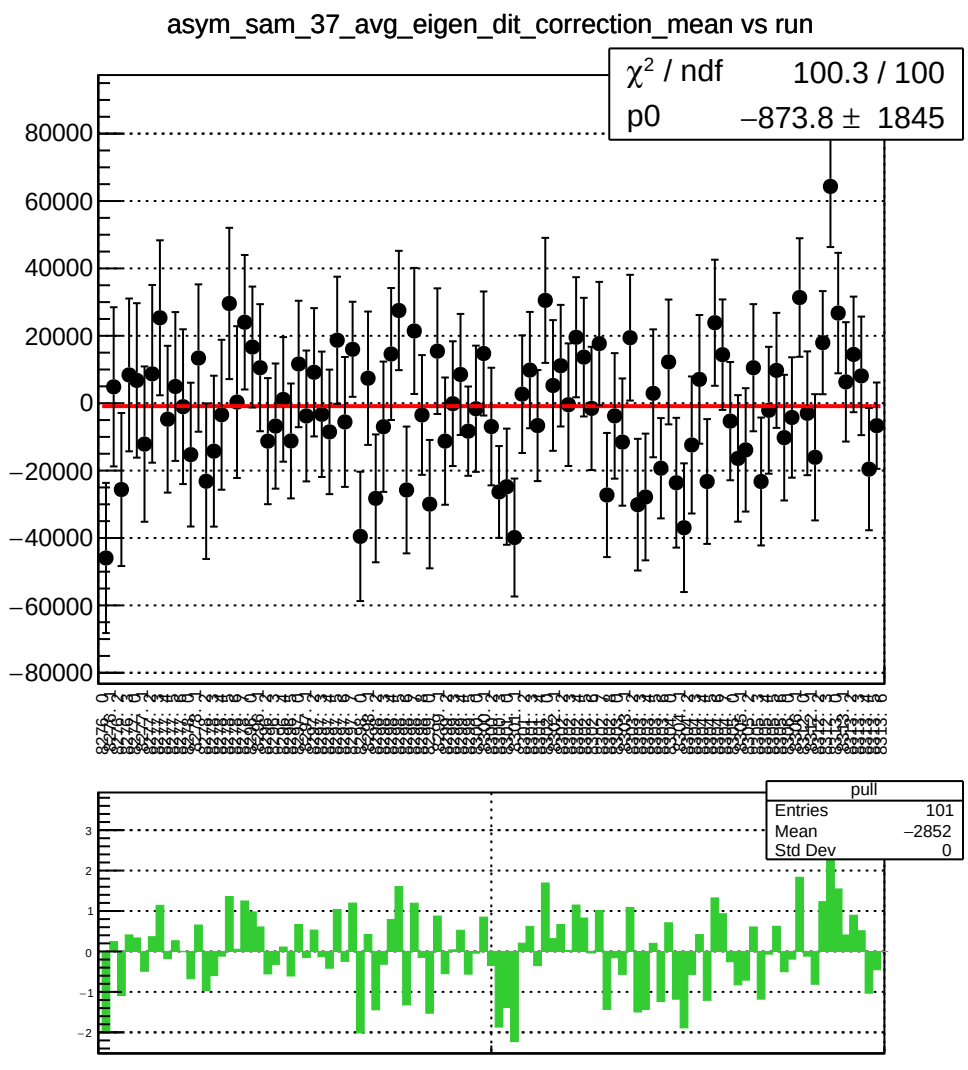

pull1D
Entries 101
Mean −0.0006049
Std Dev 0.9964
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

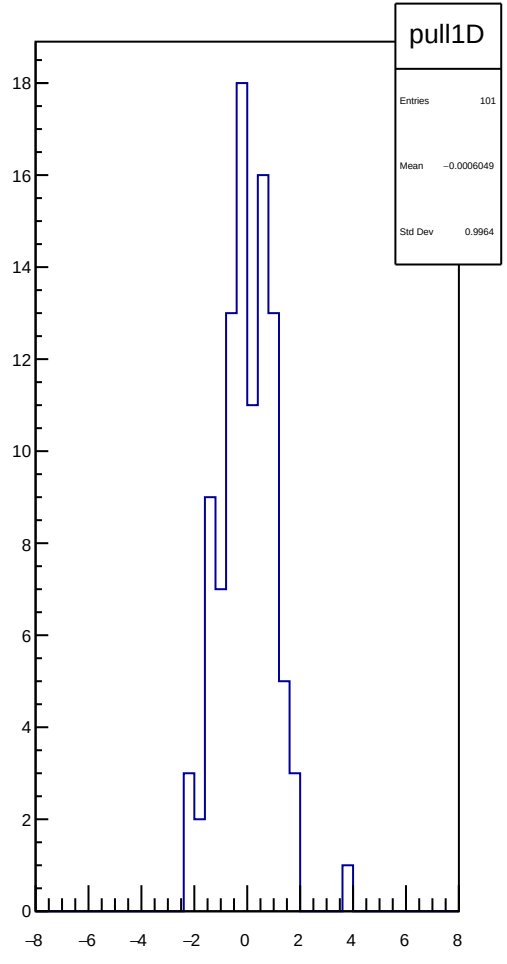

asym_sam_37_avg_dit_correction_rms vs run
χ² / ndf 1.311e+04 / 100
p0 1805 ± 1.305
2600
2400
2200
2000
1800
1600

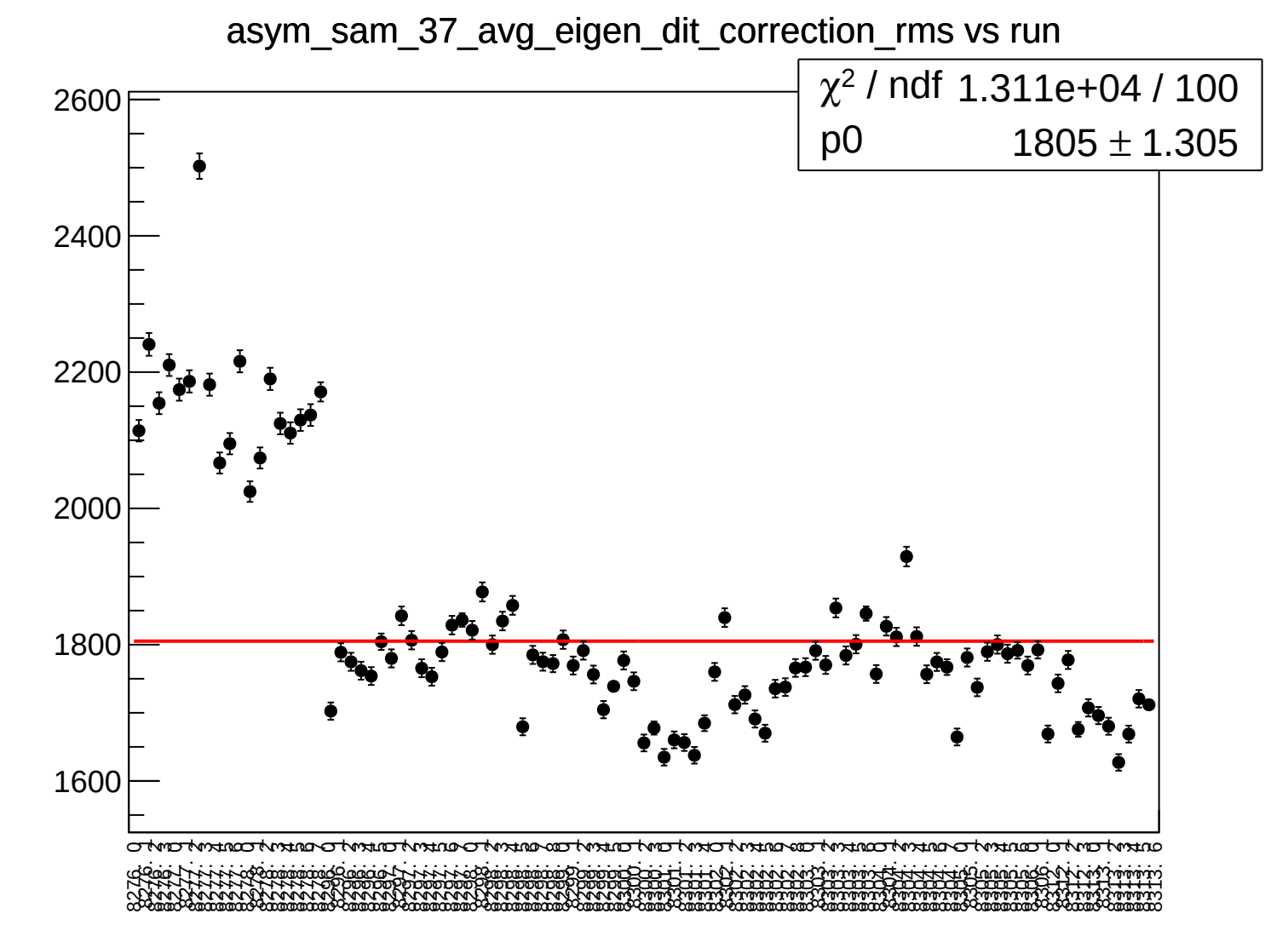

eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 89.76 / 100
p0 −100.8 ± 167
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 101
Mean −90.17
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

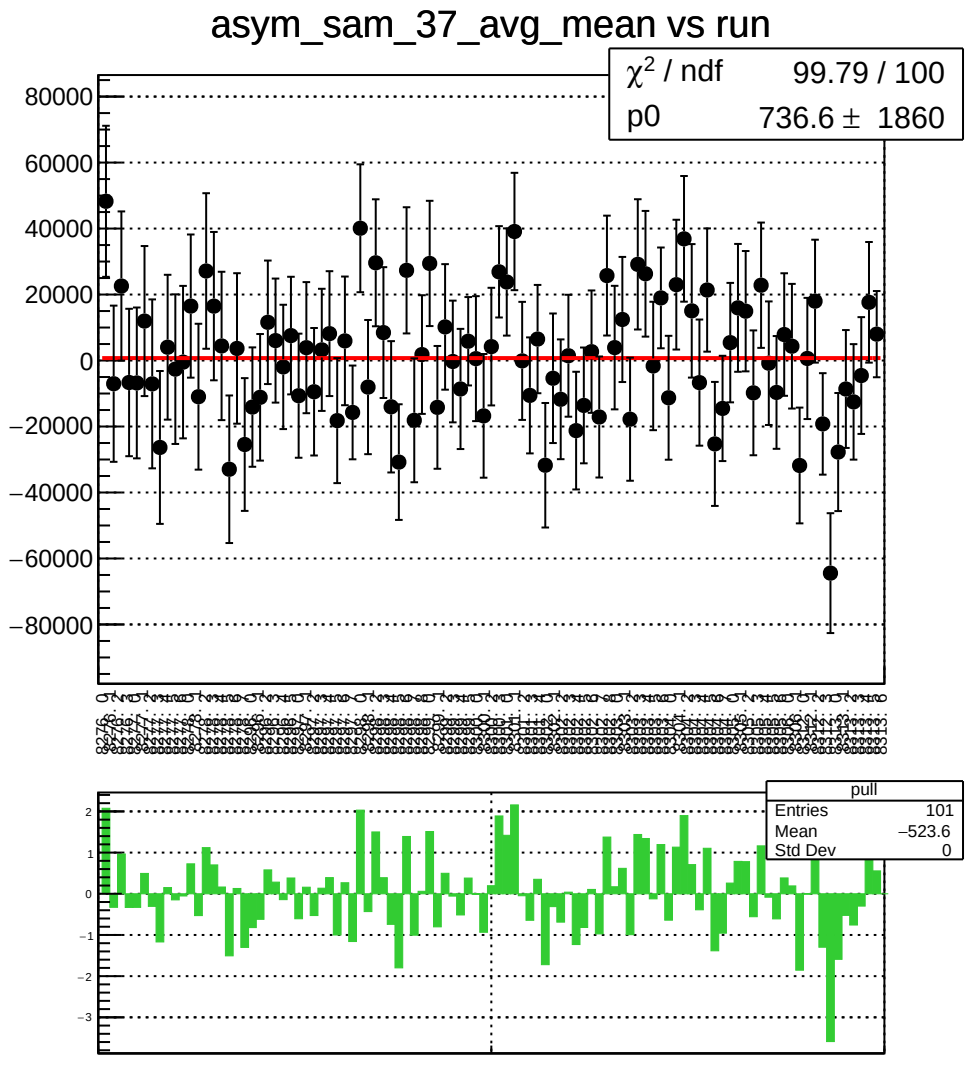

pull1D
Entries 101
Mean 0.01857
Std Dev 0.9425
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

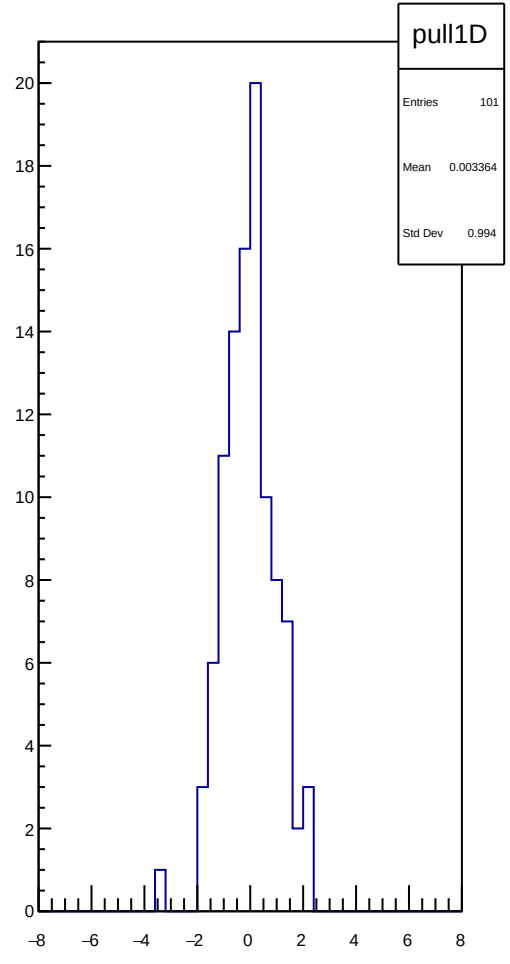

eigen_dit_asym_sam_37_avg_rms vs run
χ² / ndf 3.292e+04 / 100
p0 162.6 ± 0.1181
300
280
260
240
220
200
180
160
140
120

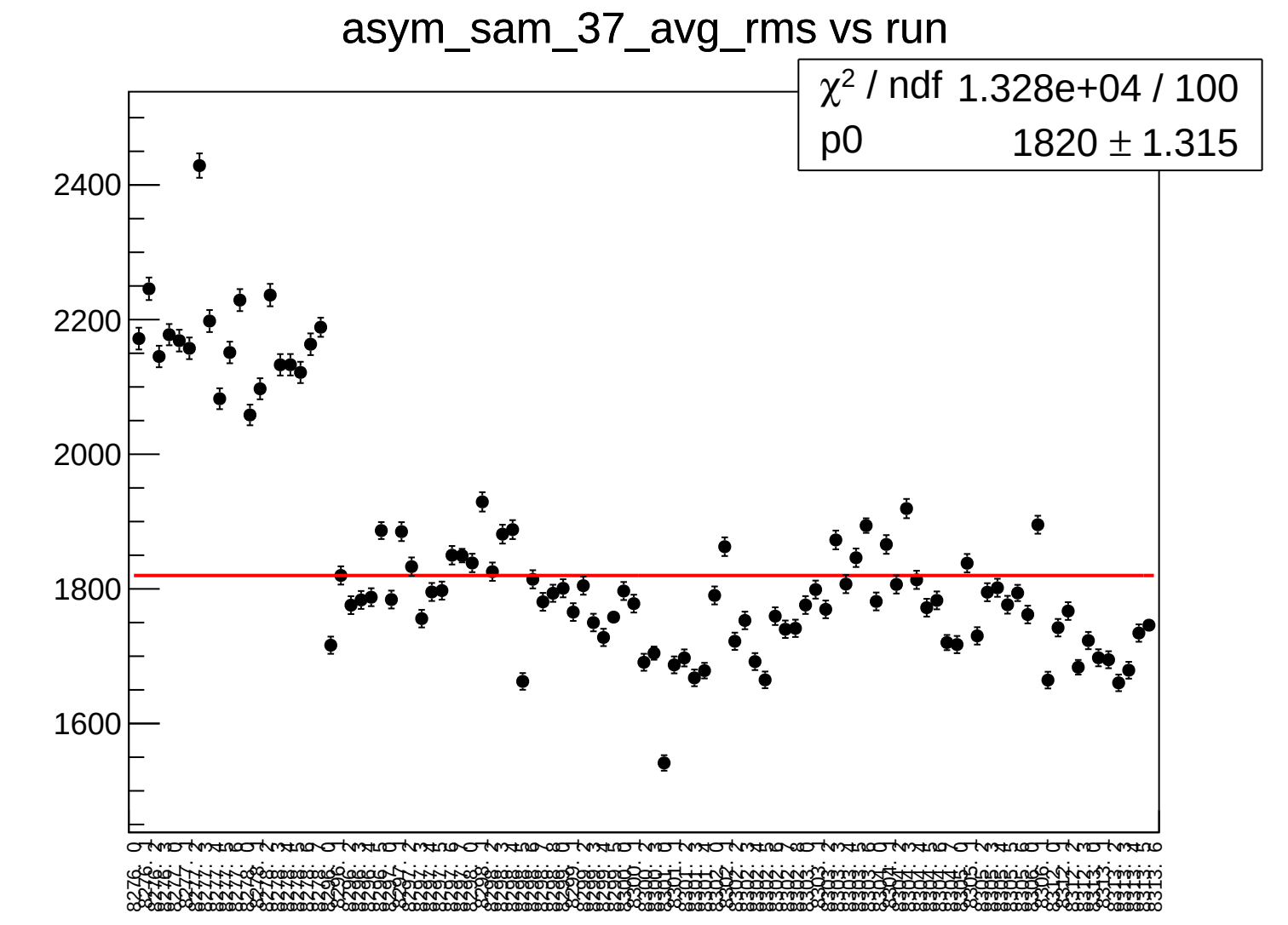

asym_sam_37_avg_eigen_dit_correction_mean vs run
χ² / ndf 100.3 / 100
p0 −873.8 ± 1845
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 101
Mean −2852
Std Dev 0
3
2
1
0
−1
−2

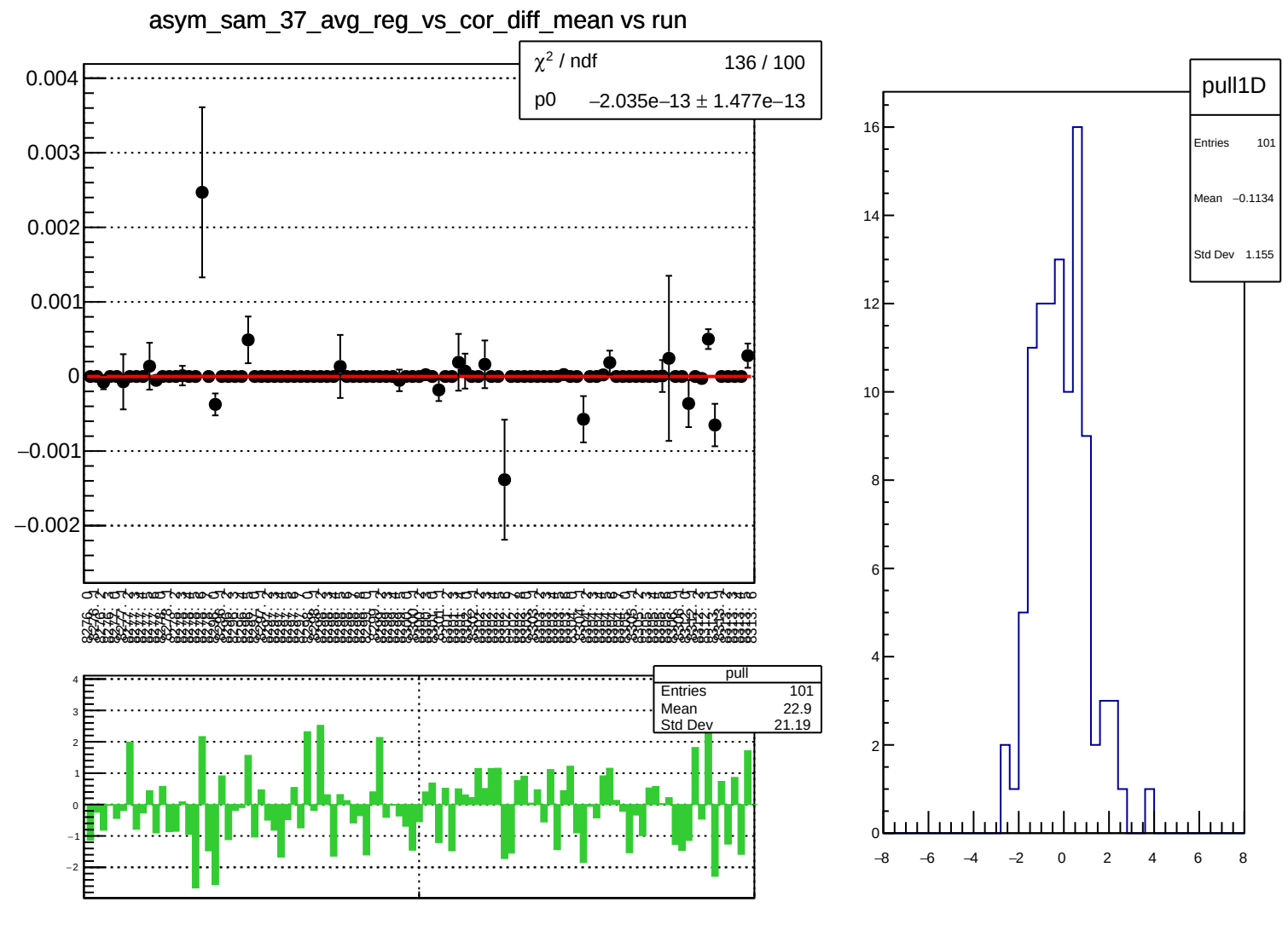

pull1D
Entries 101
Mean −0.0006049
Std Dev 0.9964
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

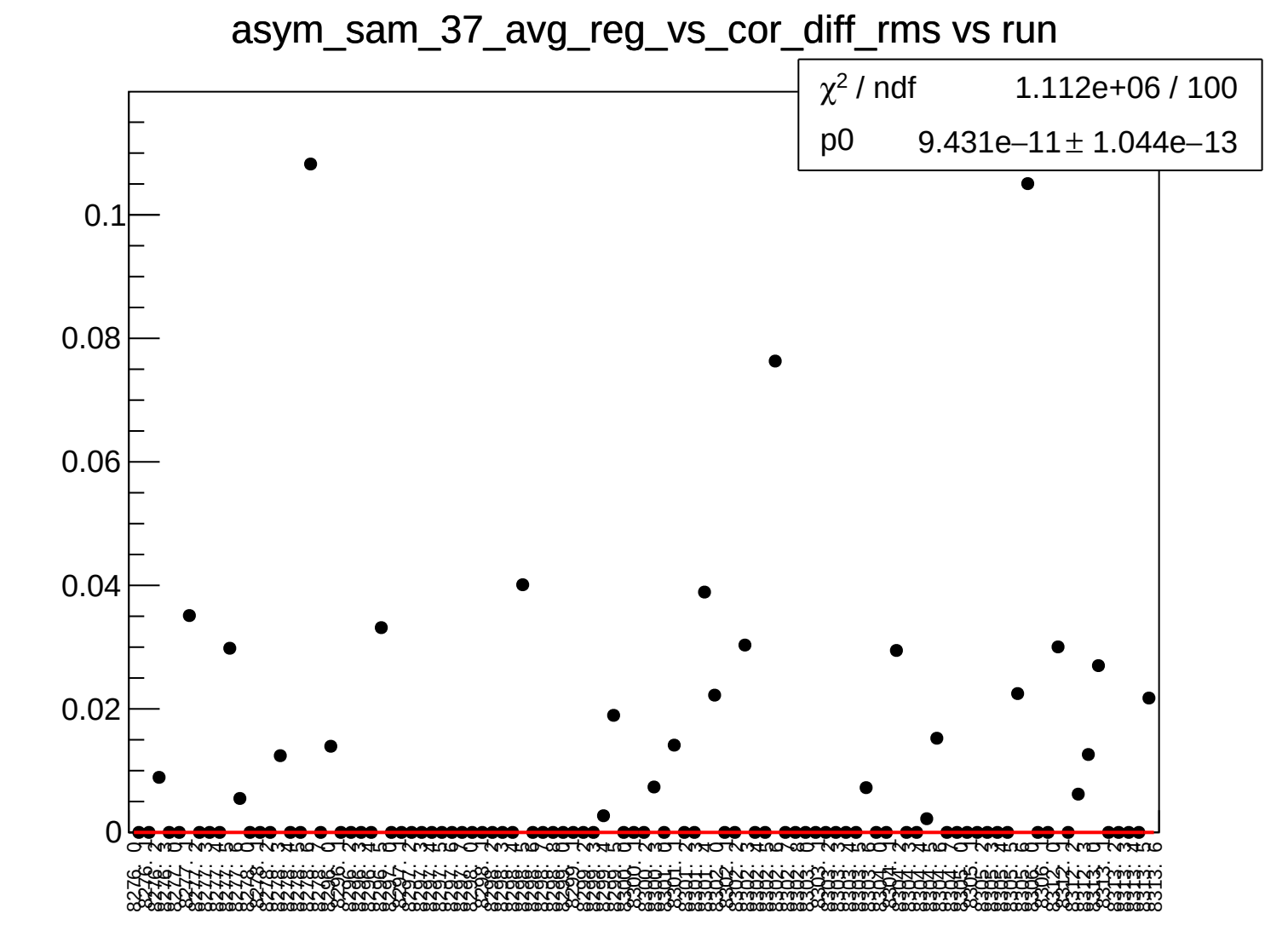

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.311e+04 / 100
p0 1805 ± 1.305
2600
2400
2200
2000
1800
1600

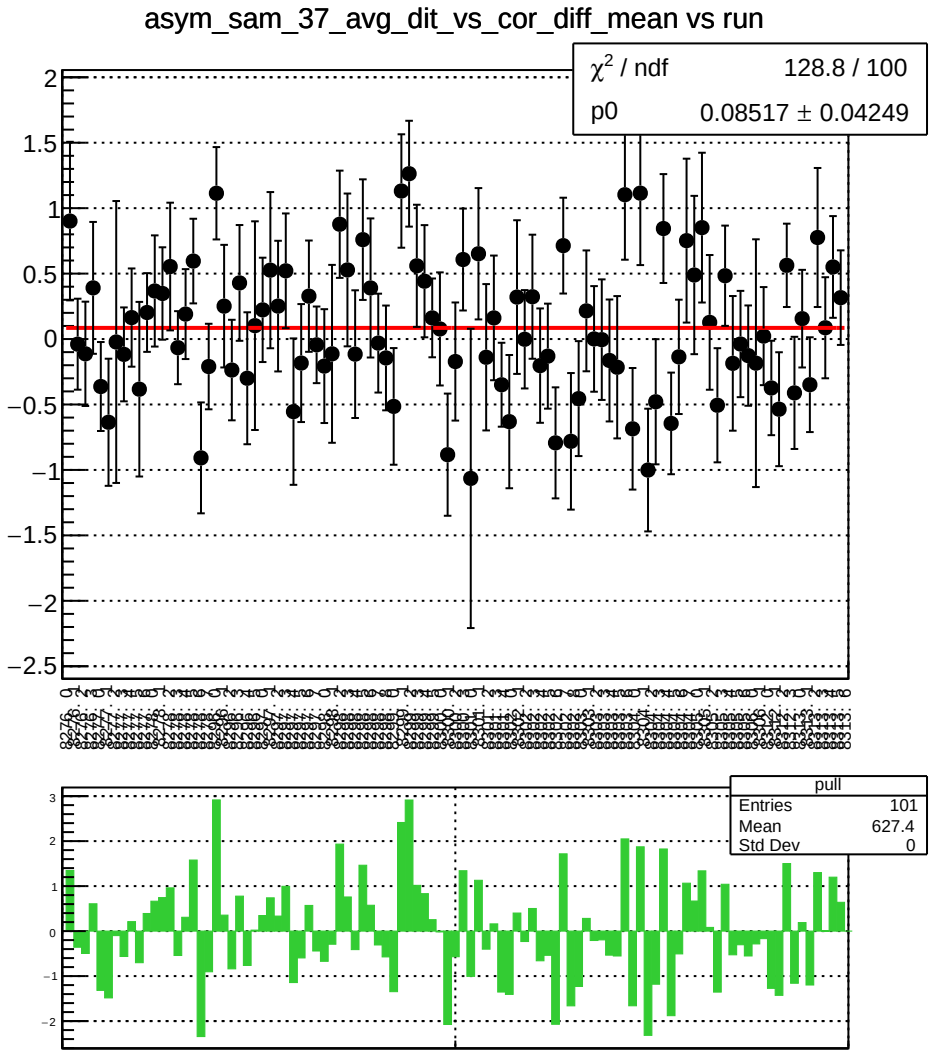

asym_sam_37_avg_mean vs run
χ² / ndf 99.79 / 100
p0 736.6 ± 1860
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 101
Mean −523.6
Std Dev 0
2
1
0
−1
−2
−3

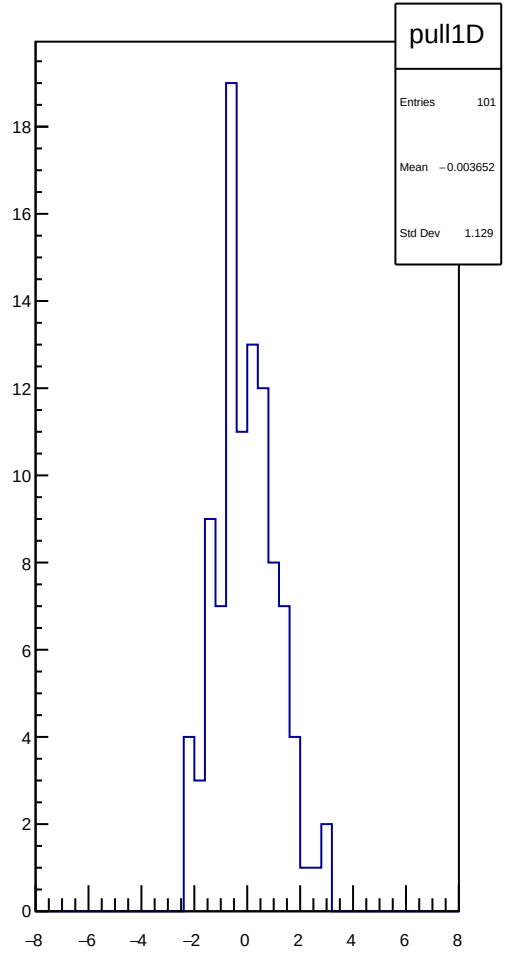

pull1D
Entries 101
Mean 0.003364
Std Dev 0.994
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

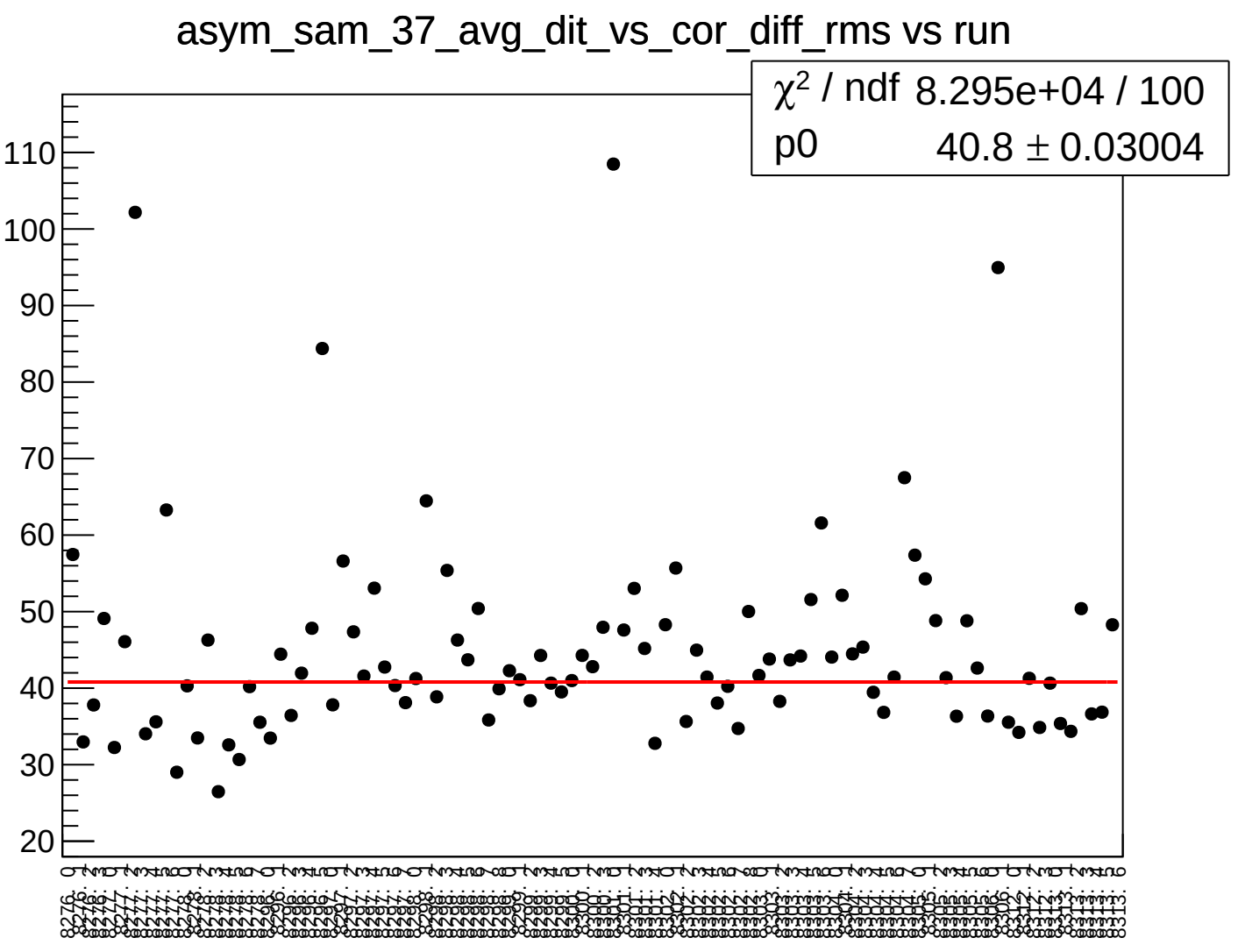

asym_sam_37_avg_rms vs run
χ² / ndf 1.328e+04 / 100
p0 1820 ± 1.315
2400
2200
2000
1800
1600

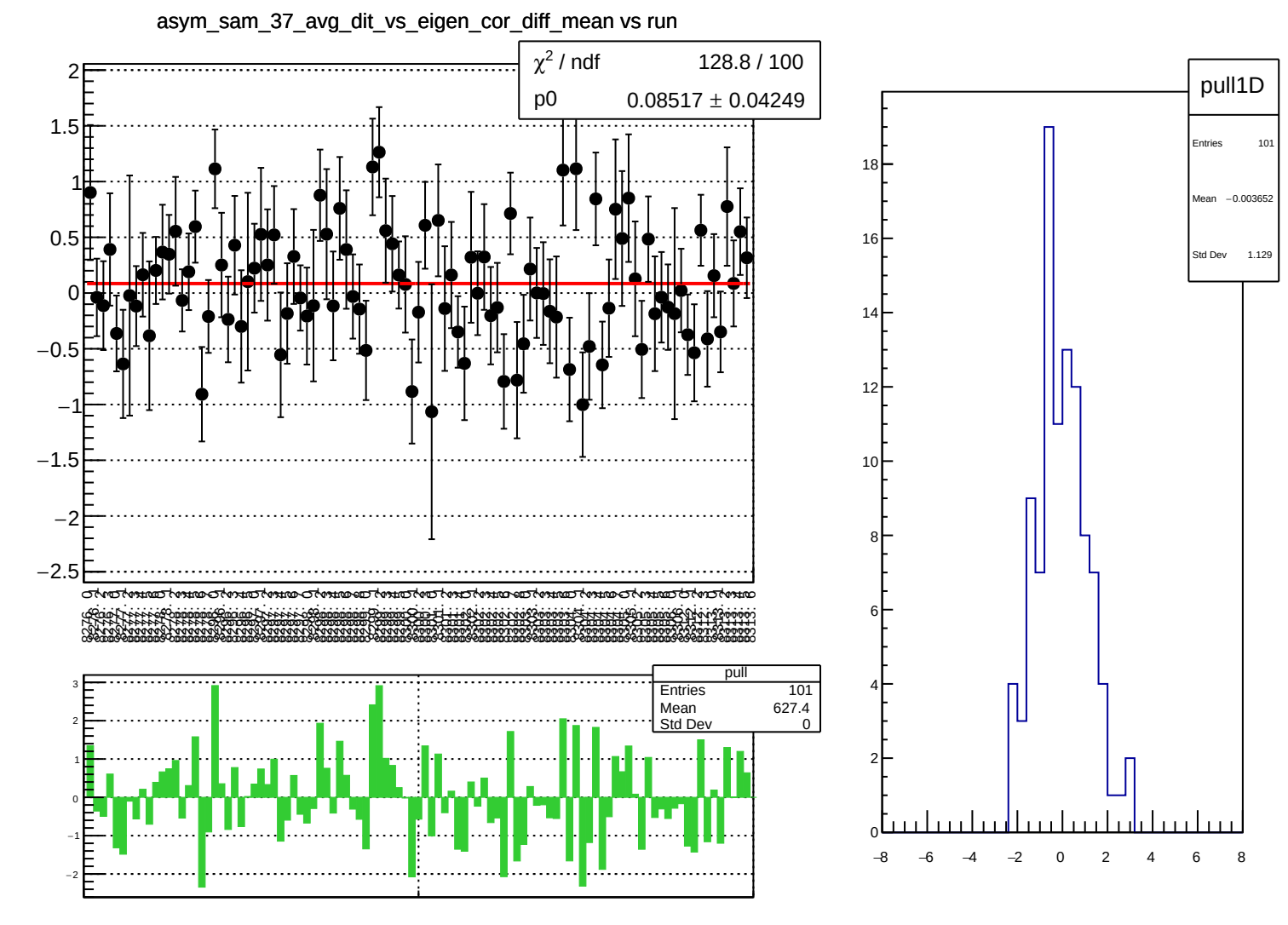

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 136 / 100
p0 −2.035e−13 ± 1.477e−13
0.004
0.003
0.002
0.001
0
−0.001
−0.002
pull
Entries 101
Mean 22.9
Std Dev 21.19
pull1D
Entries 101
Mean −0.1134
Std Dev 1.155

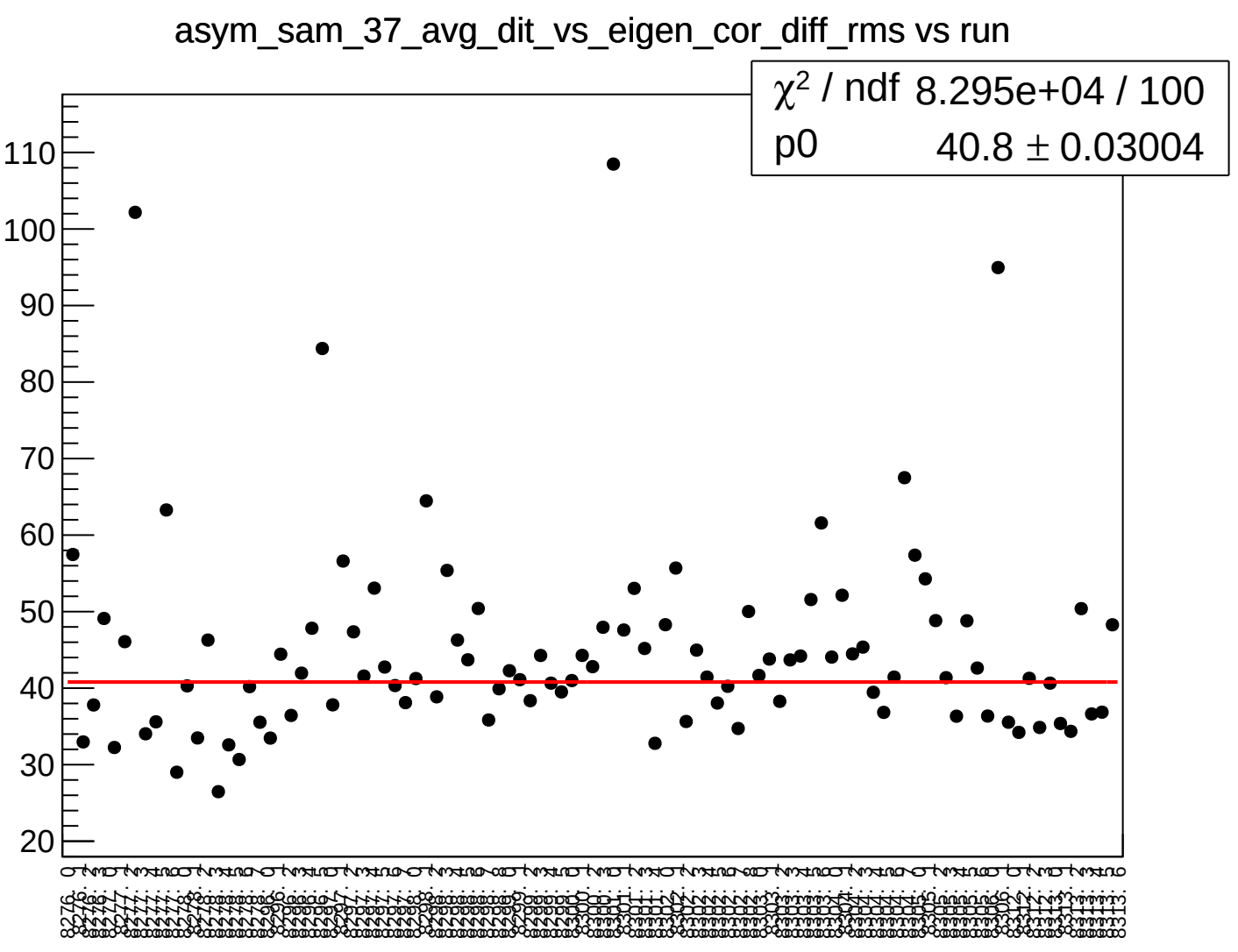

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.112e+06 / 100
p0 9.431e−11 ± 1.044e−13
0.1
0.08
0.06
0.04
0.02
0

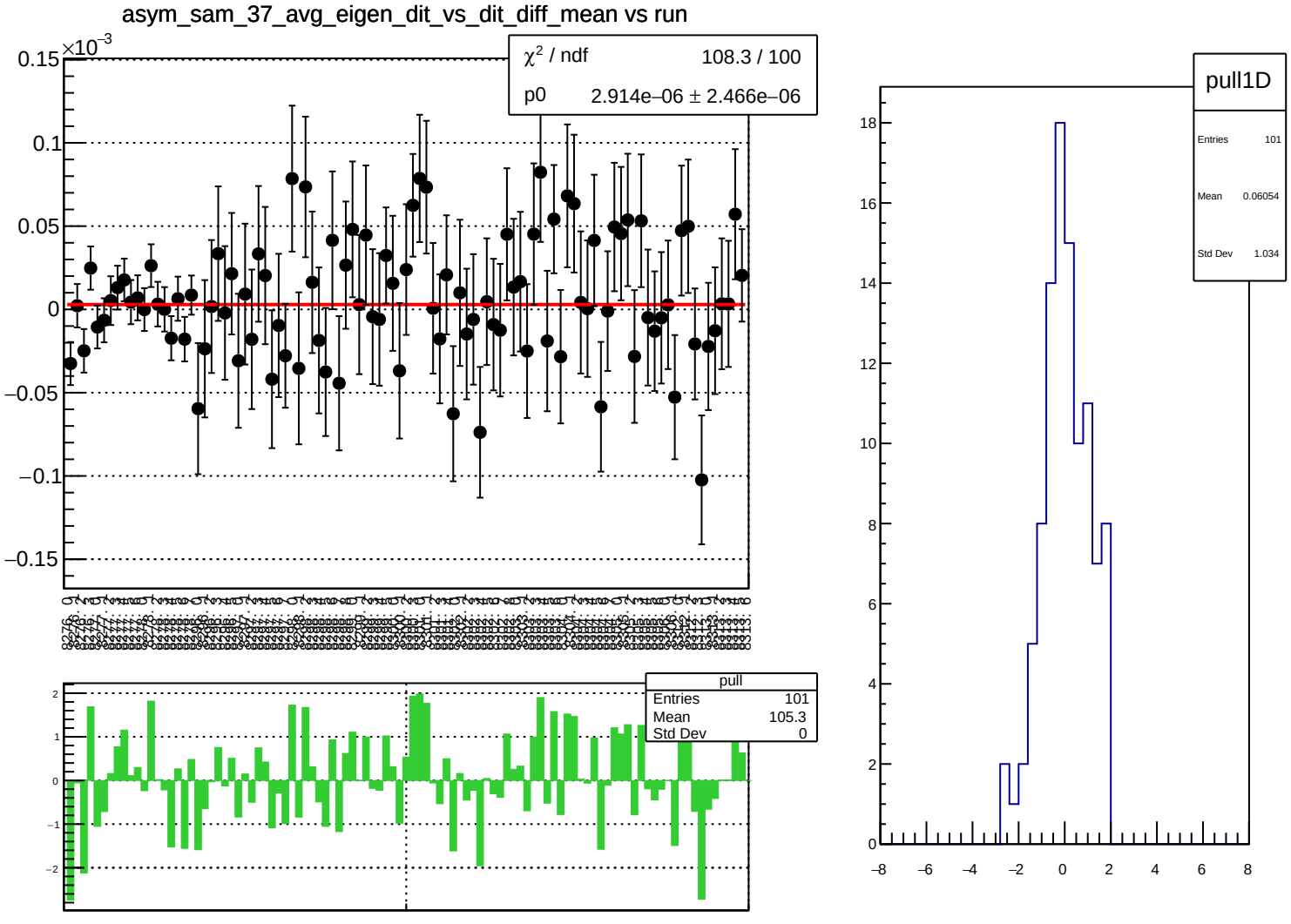

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 128.8 / 100
p0 0.08517 ± 0.04249
pull
Entries 101
Mean 627.4
Std Dev 0

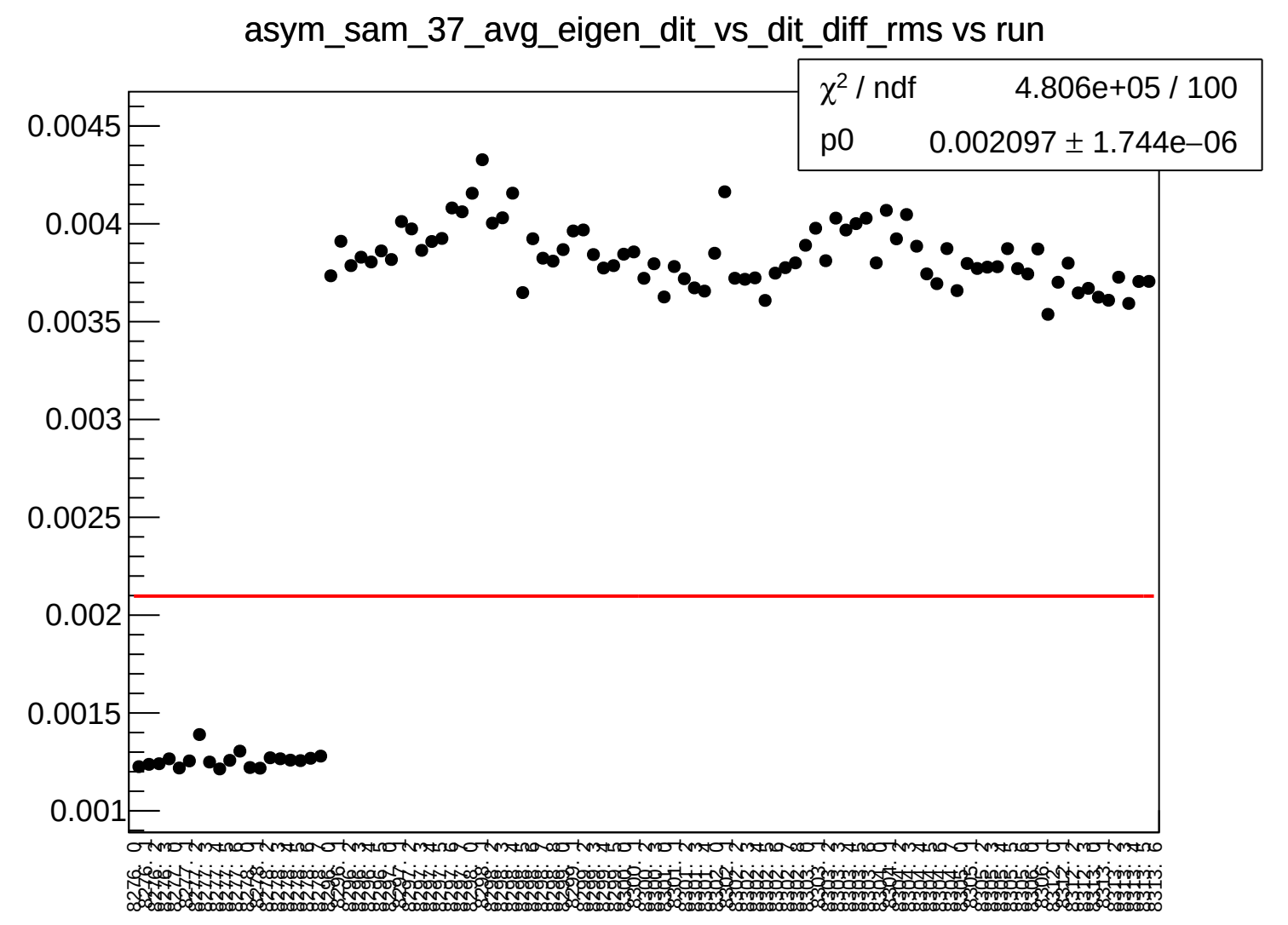

pull1D
Entries 101
Mean −0.003652
Std Dev 1.129

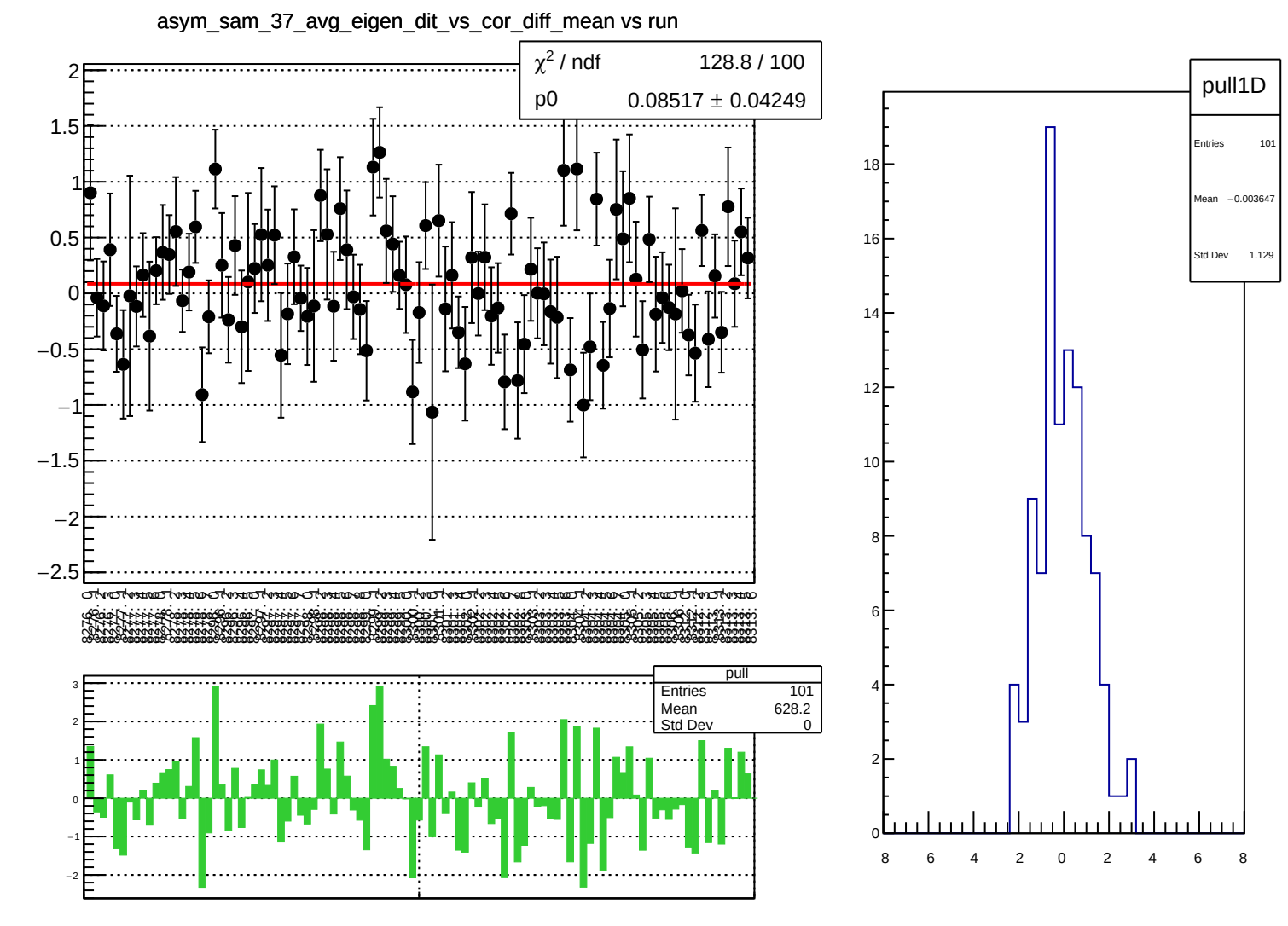

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.295e+04 / 100
p0 40.8 ± 0.03004
110
100
90
80
70
60
50
40
30
20

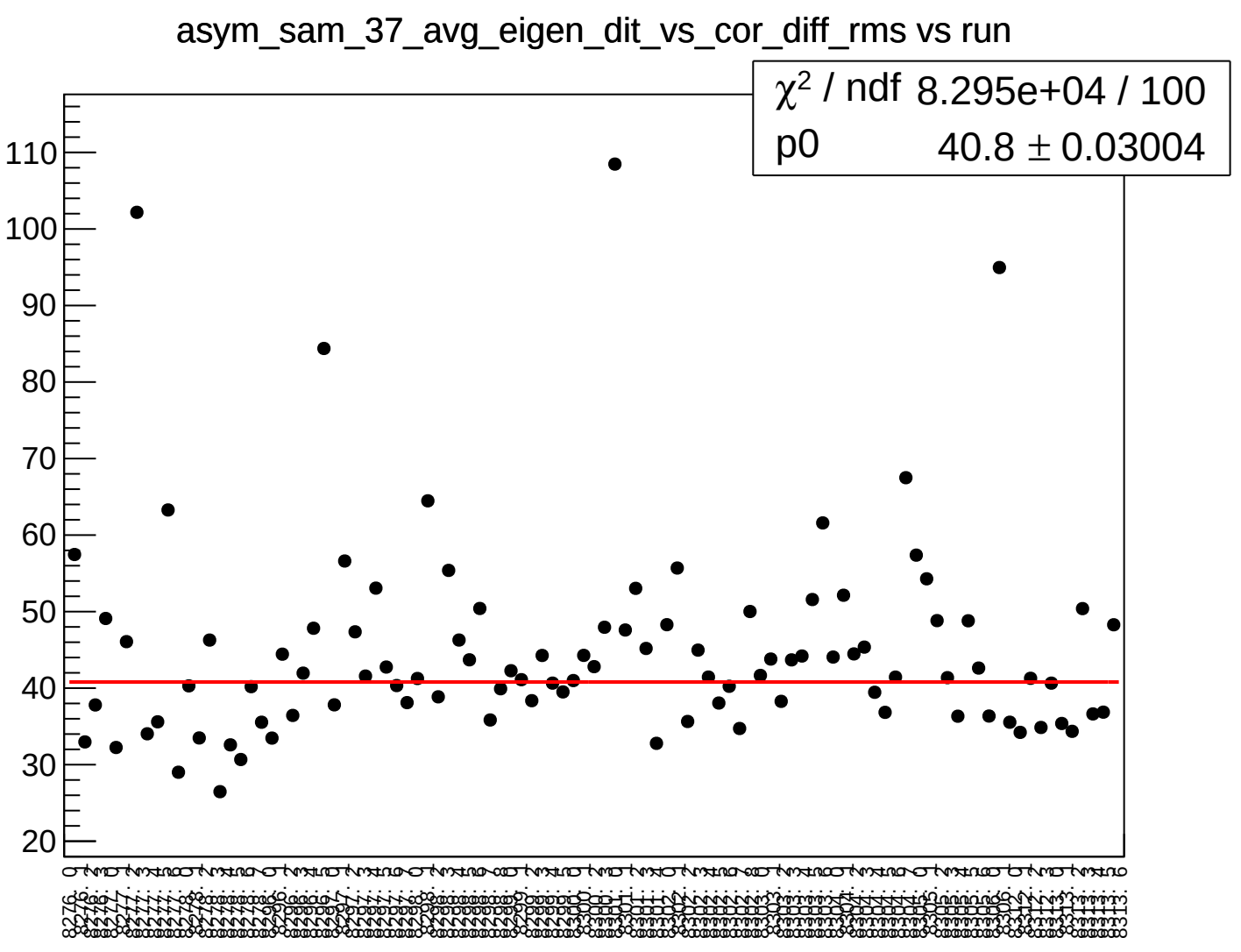

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 128.8 / 100
p0 0.08517 ± 0.04249
pull
Entries 101
Mean 627.4
Std Dev 0
pull1D
Entries 101
Mean −0.003652
Std Dev 1.129

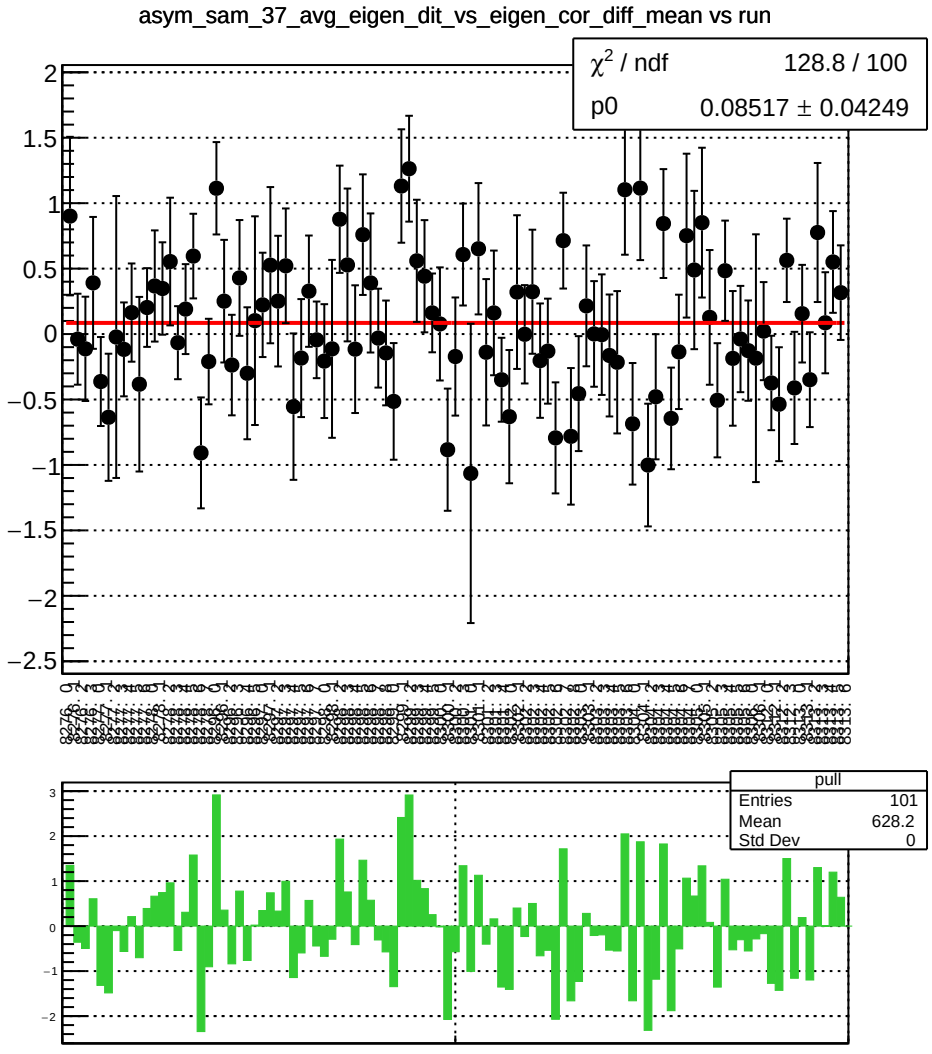

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.295e+04 / 100
p0 40.8 ± 0.03004
110
100
90
80
70
60
50
40
30
20

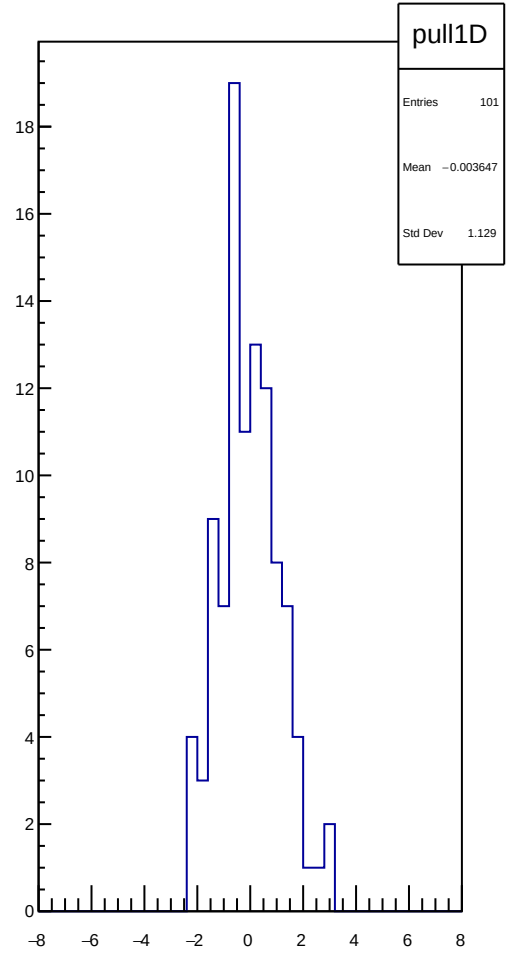

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 108.3 / 100
p0 2.914e−06 ± 2.466e−06
pull
Entries 101
Mean 105.3
Std Dev 0
pull1D
Entries 101
Mean 0.06054
Std Dev 1.034

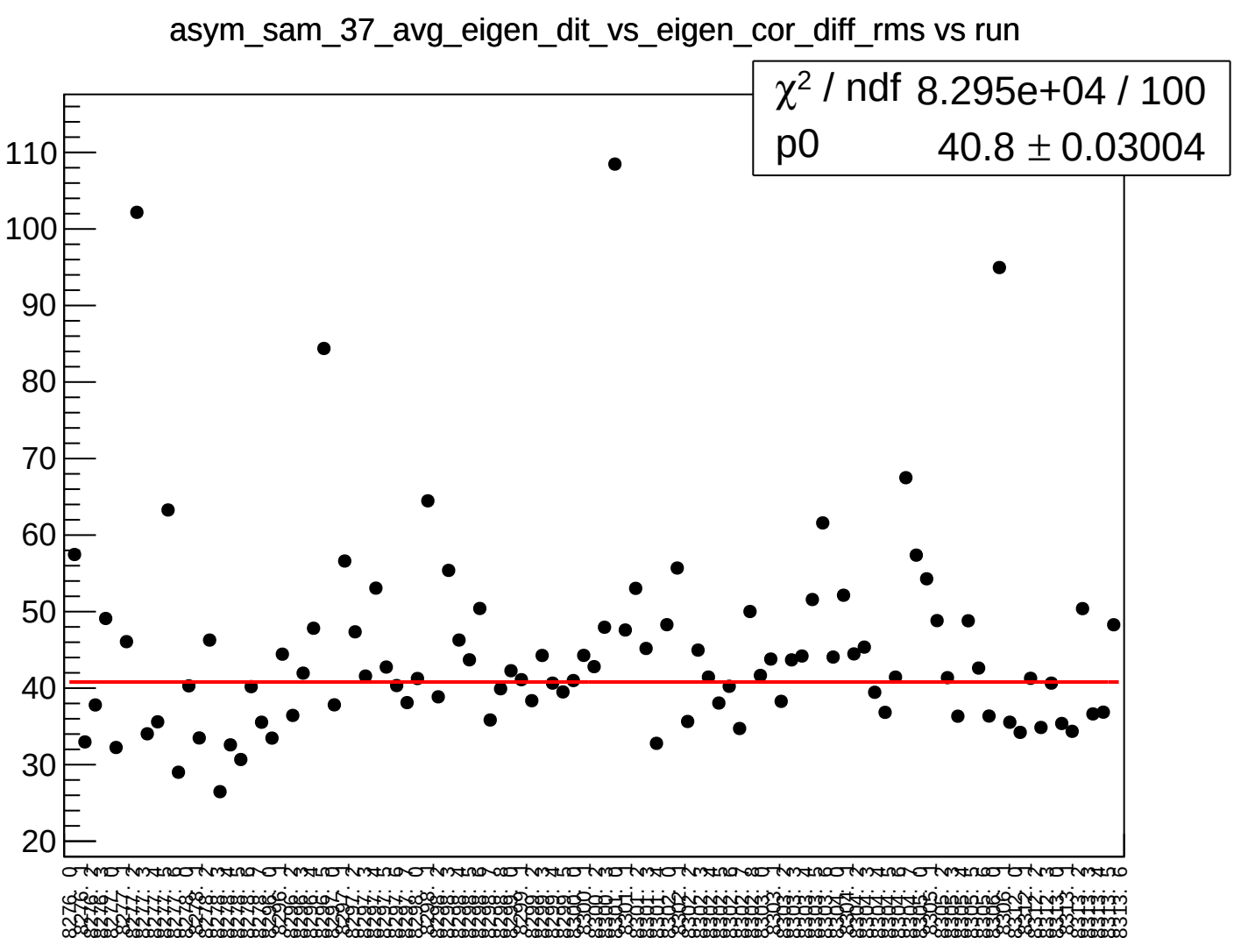

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.806e+05 / 100
p0 0.002097 ± 1.744e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

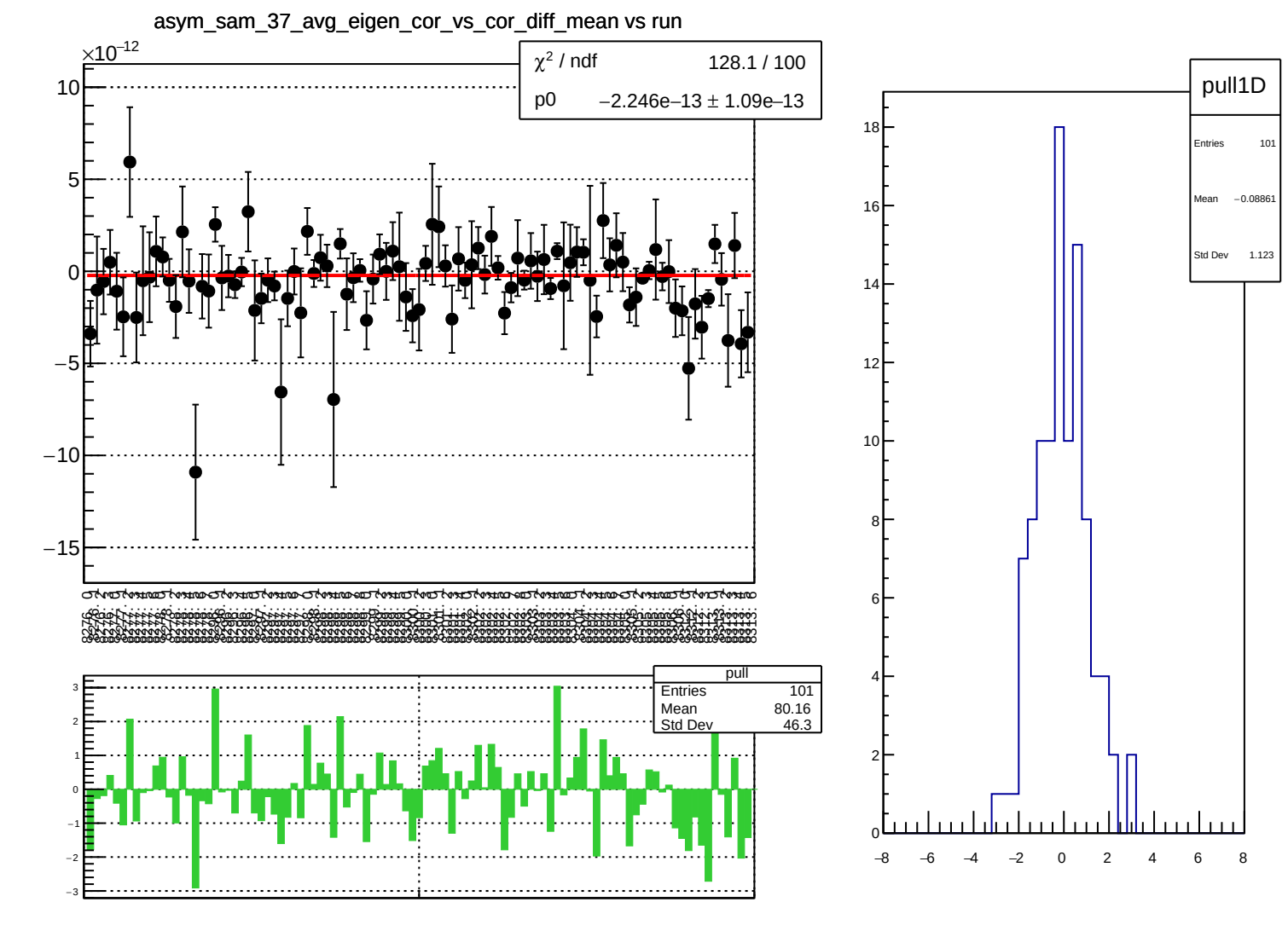

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 128.8 / 100
p0 0.08517 ± 0.04249
pull
Entries 101
Mean 628.2
Std Dev 0
pull1D
Entries 101
Mean −0.003647
Std Dev 1.129

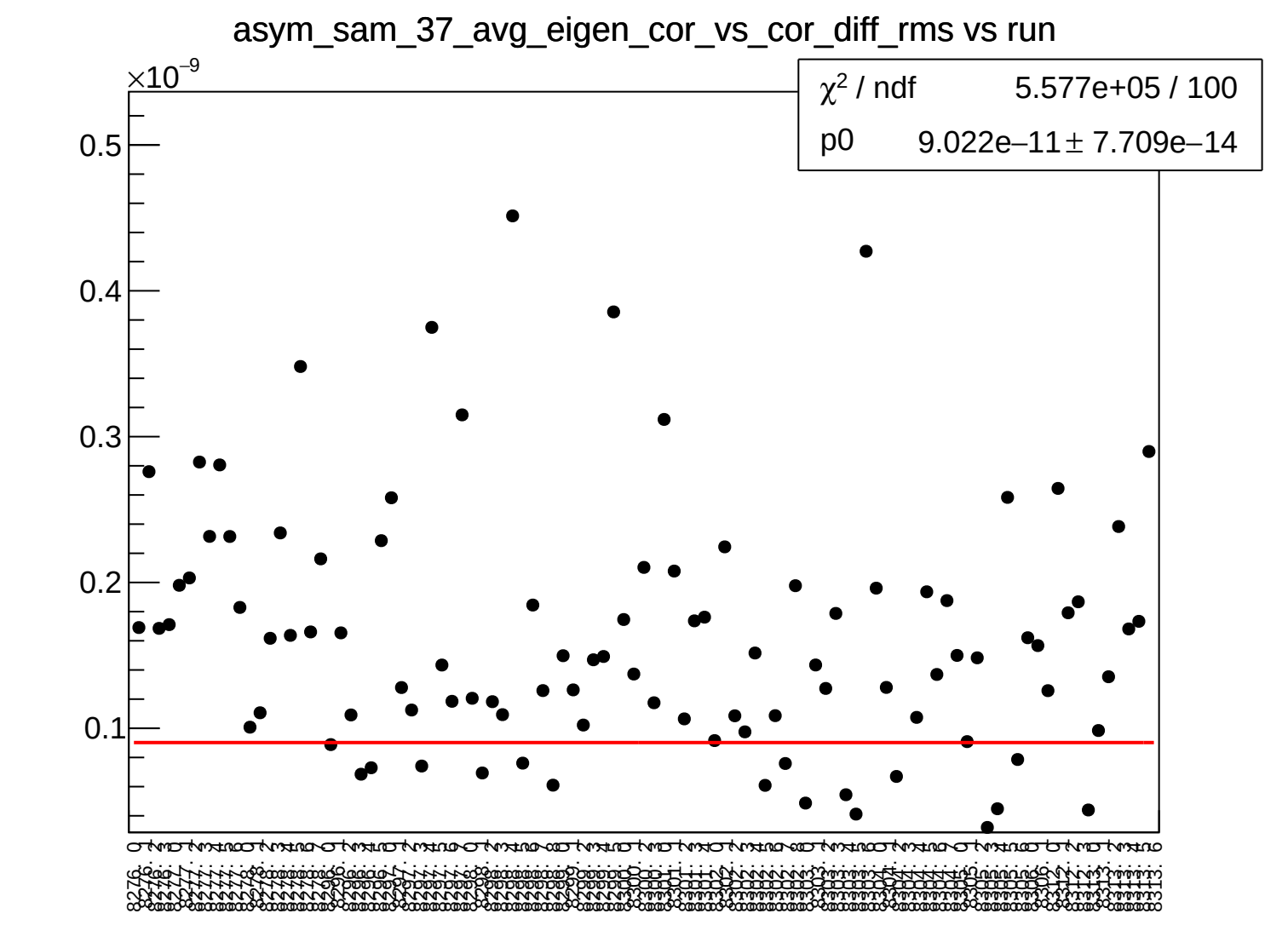

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.295e+04 / 100
p0 40.8 ± 0.03004
110
100
90
80
70
60
50
40
30
20

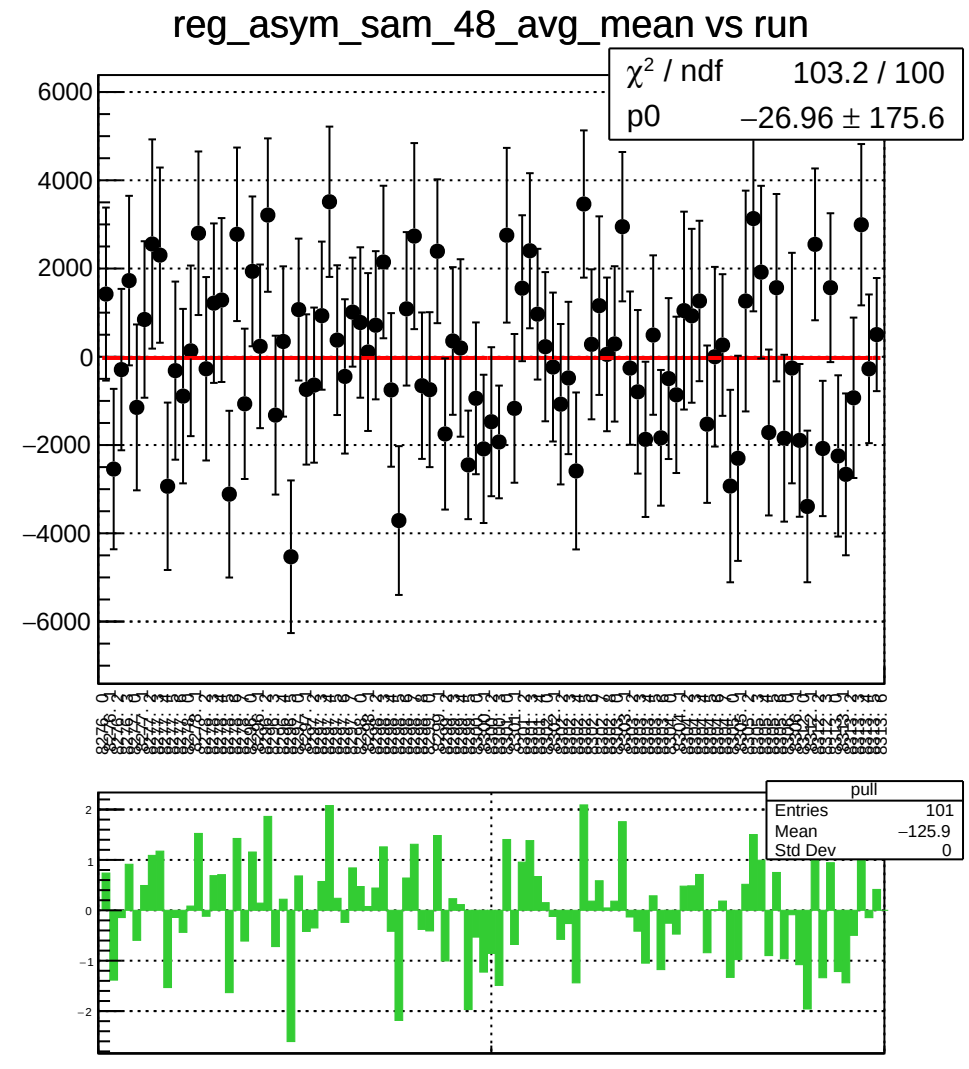

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 128.8 / 100
p0 0.08517 ± 0.04249
pull
Entries 101
Mean 628.2
Std Dev 0

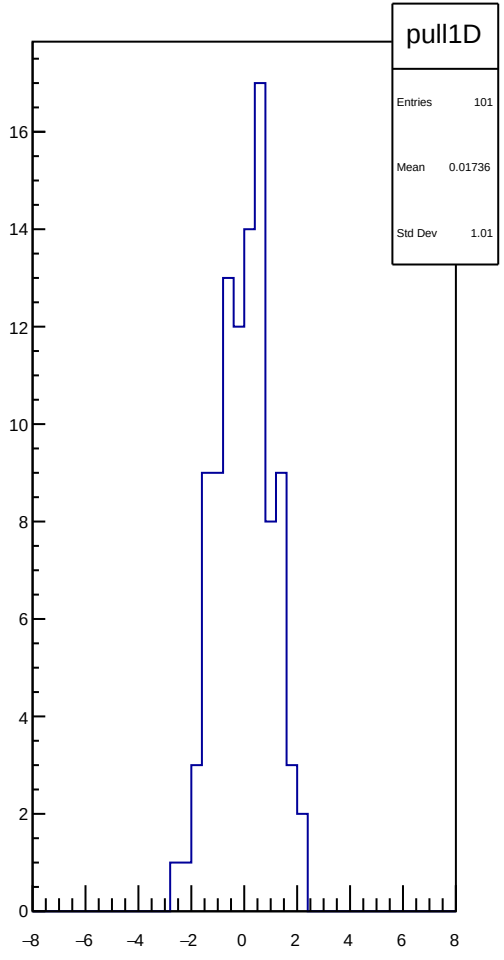

pull1D
Entries 101
Mean −0.003647
Std Dev 1.129

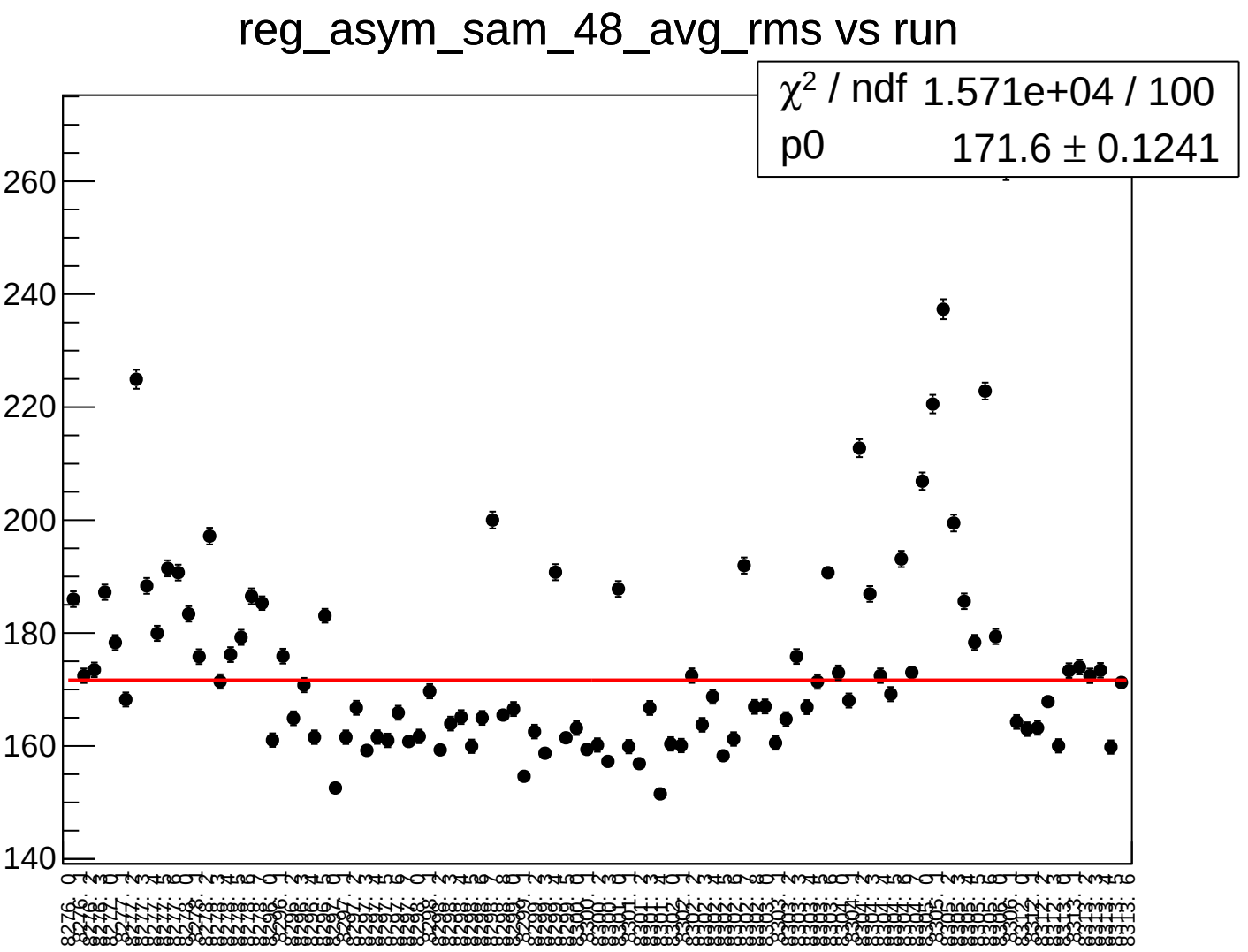

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.295e+04 / 100
p0 40.8 ± 0.03004
110
100
90
80
70
60
50
40
30
20

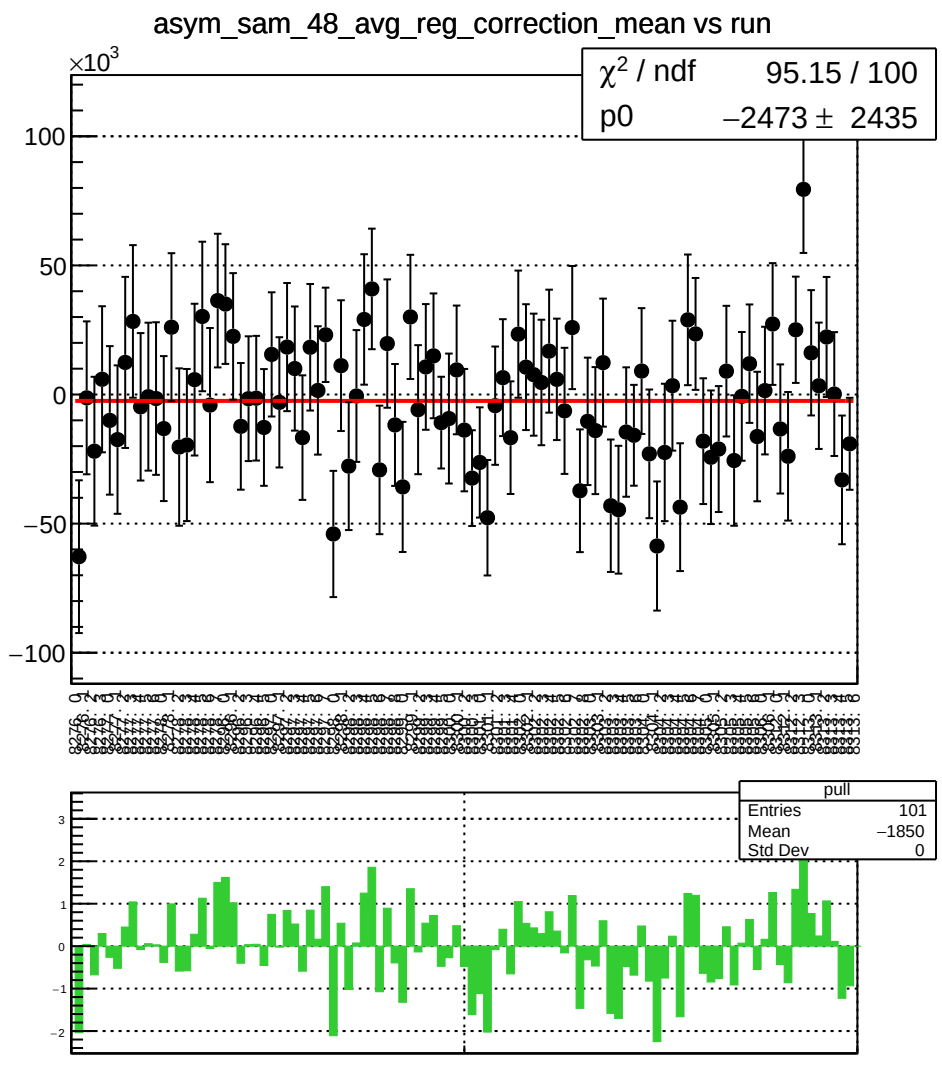

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 128.1 / 100
p0 −2.246e−13 ± 1.09e−13
pull
Entries 101
Mean 80.16
Std Dev 46.3
pull1D
Entries 101
Mean −0.08861
Std Dev 1.123

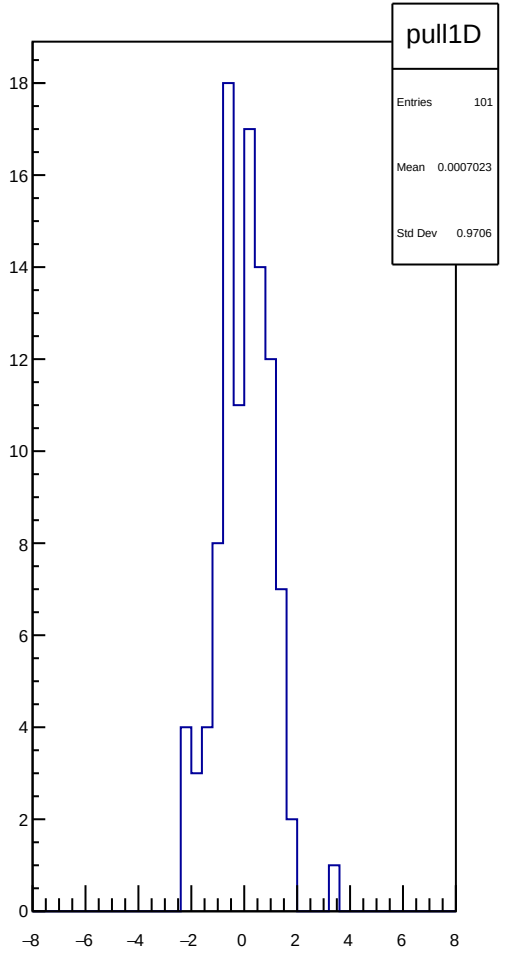

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.577e+05 / 100
p0 9.022e−11 ± 7.709e−14
0.5
0.4
0.3
0.2
0.1

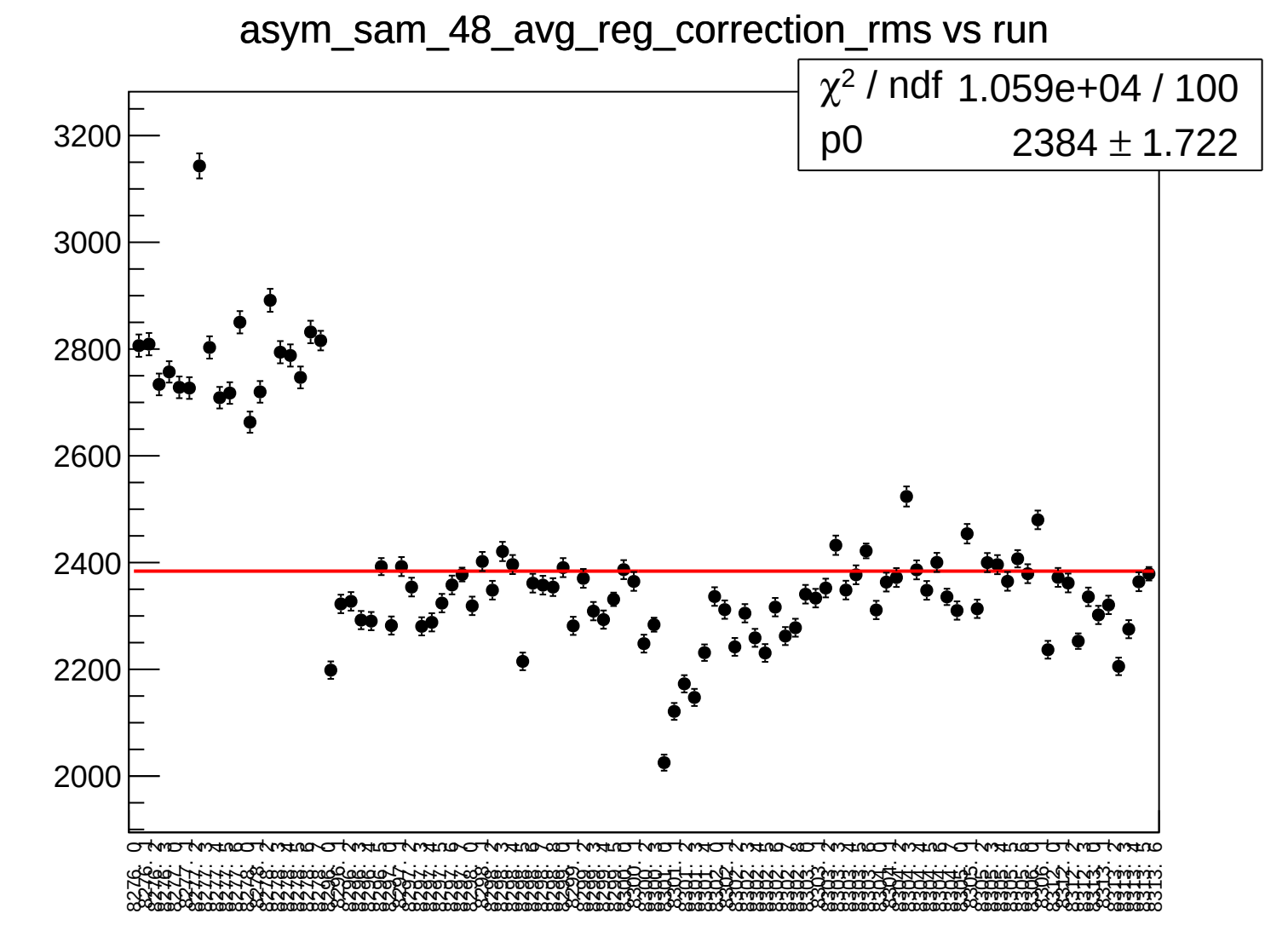

reg_asym_sam_48_avg_mean vs run
χ² / ndf 103.2 / 100
p0 −26.96 ± 175.6
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 101
Mean −125.9
Std Dev 0
2
1
0
−1
−2

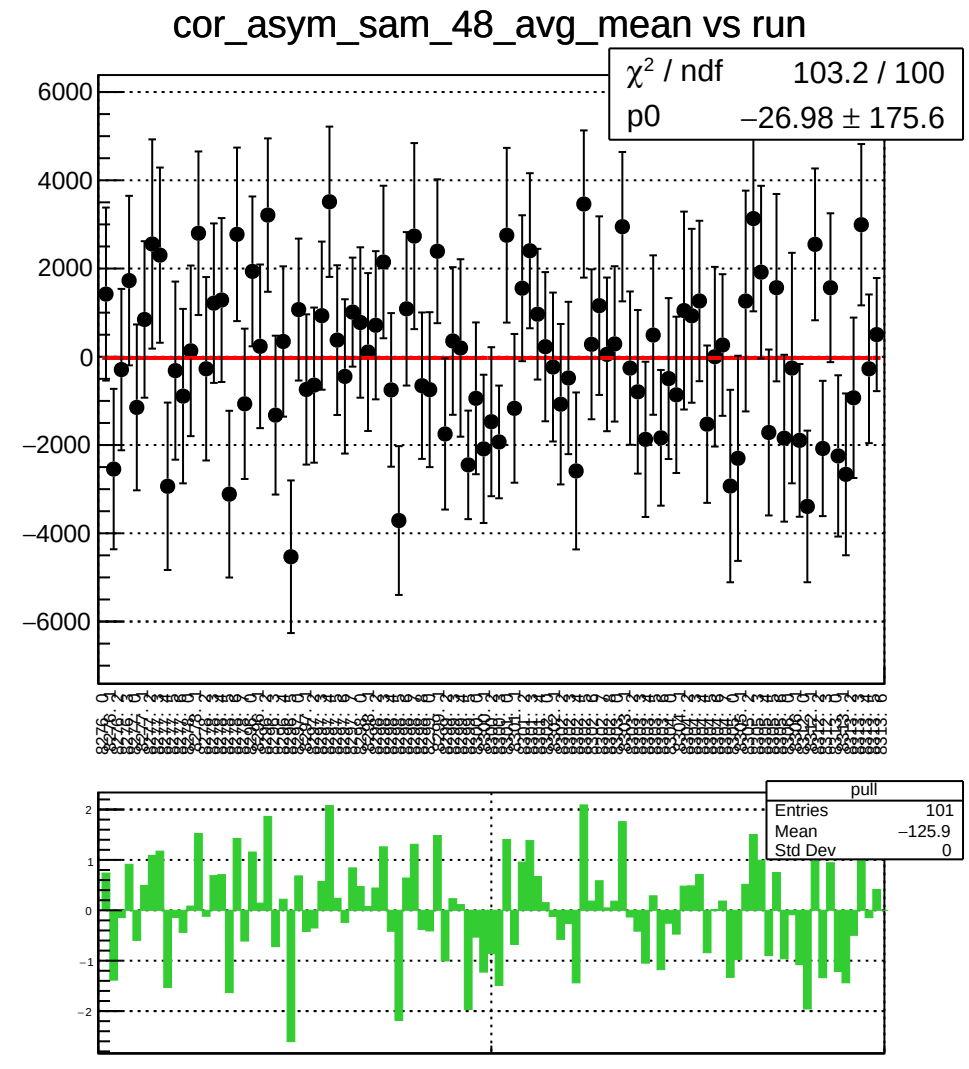

pull1D
Entries 101
Mean 0.01736
Std Dev 1.01
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

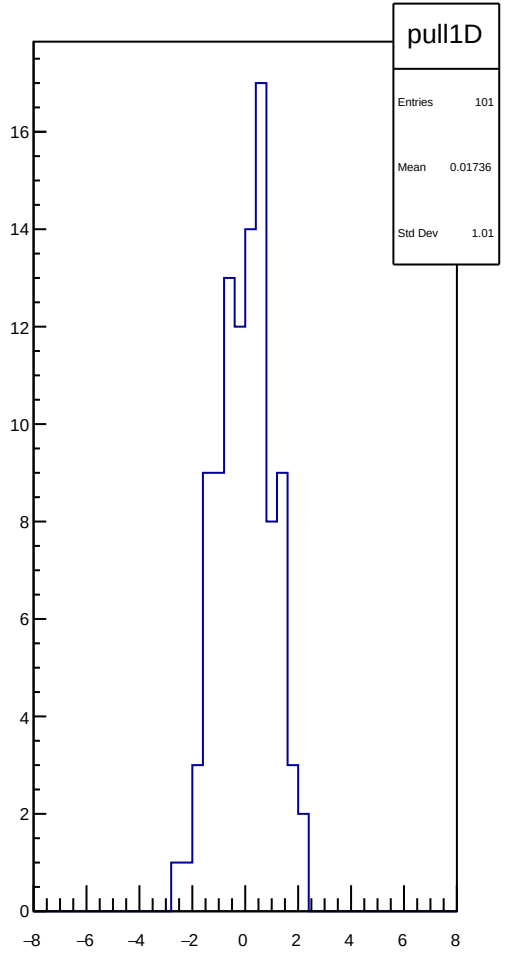

reg_asym_sam_48_avg_rms vs run
χ² / ndf 1.571e+04 / 100
p0 171.6 ± 0.1241
260
240
220
200
180
160
140

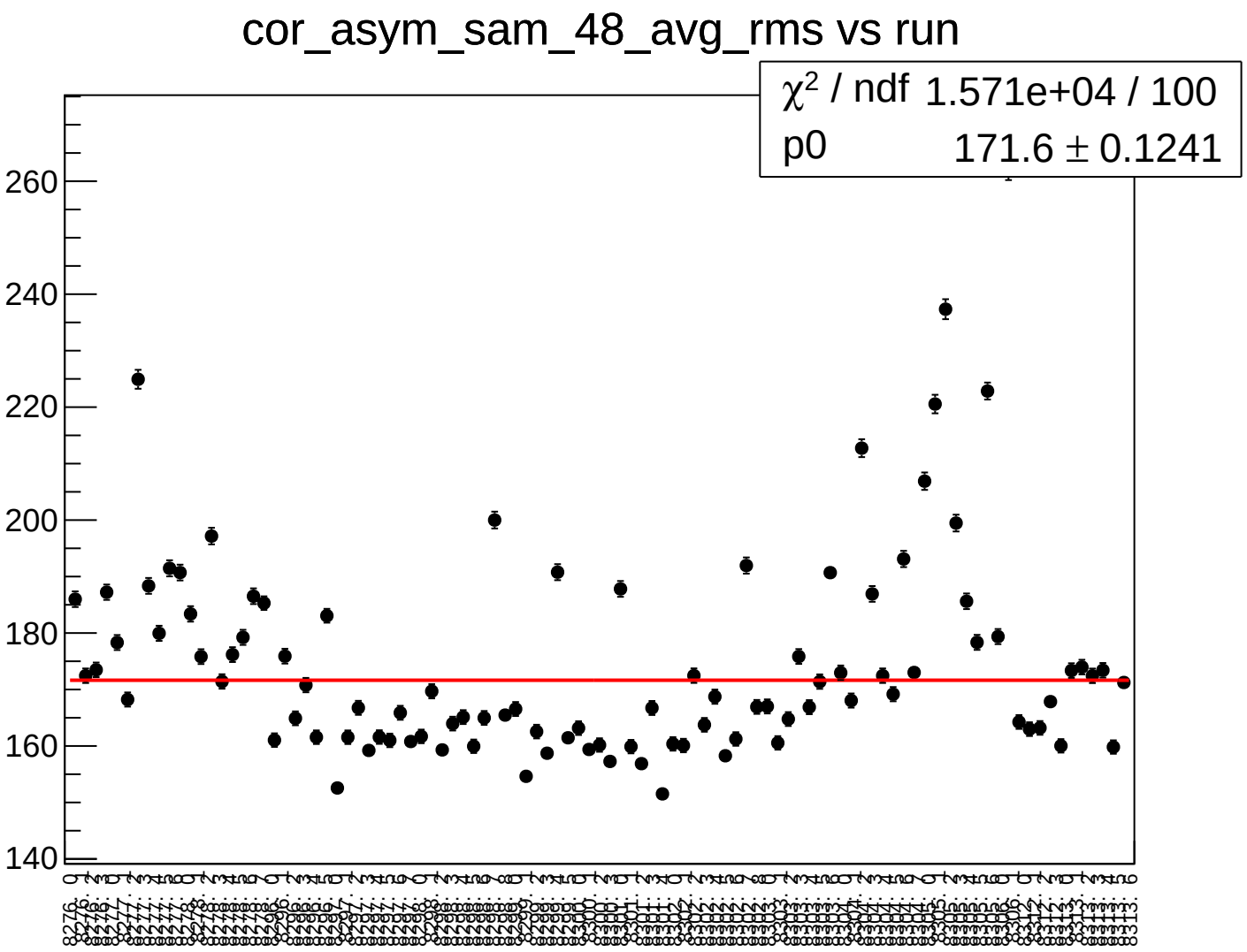

asym_sam_48_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 95.15 / 100
p0 −2473 ± 2435
100
50
0
−50
−100
pull
Entries 101
Mean −1850
Std Dev 0
3
2
1
0
−1
−2

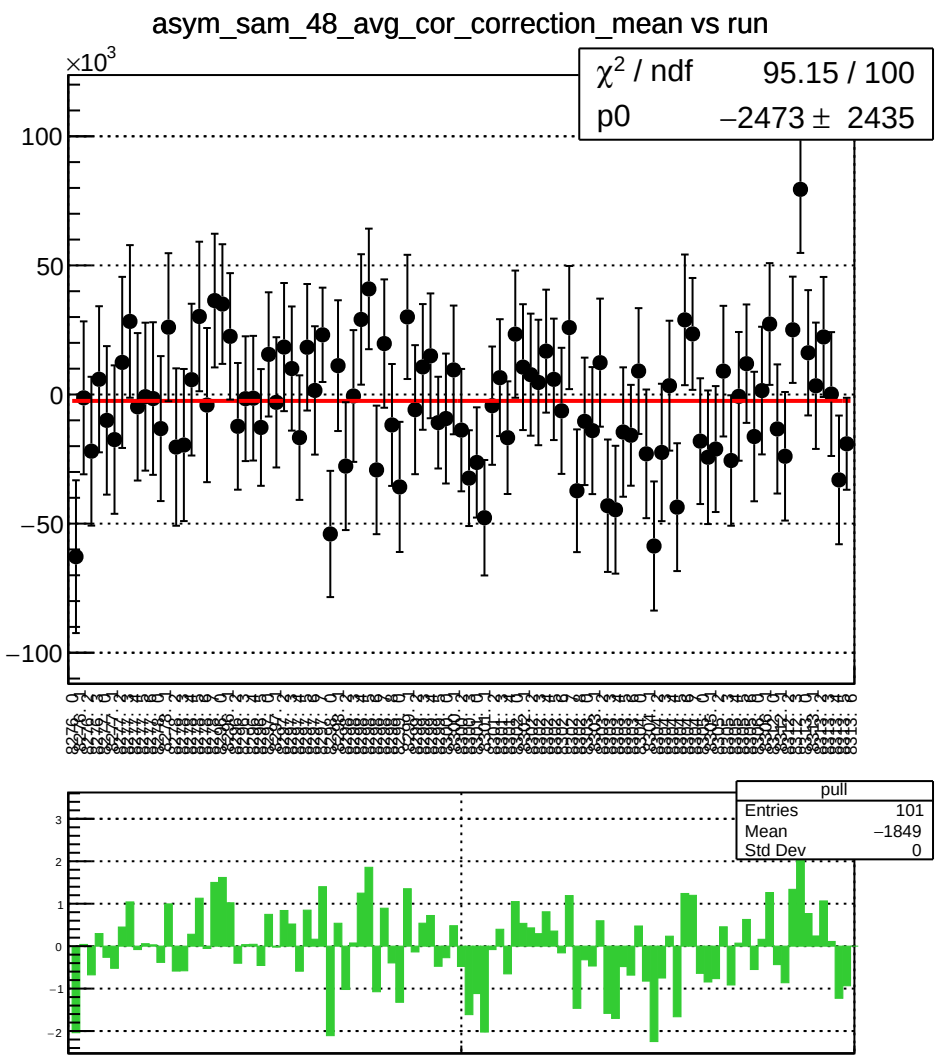

pull1D
Entries 101
Mean 0.0007023
Std Dev 0.9706
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

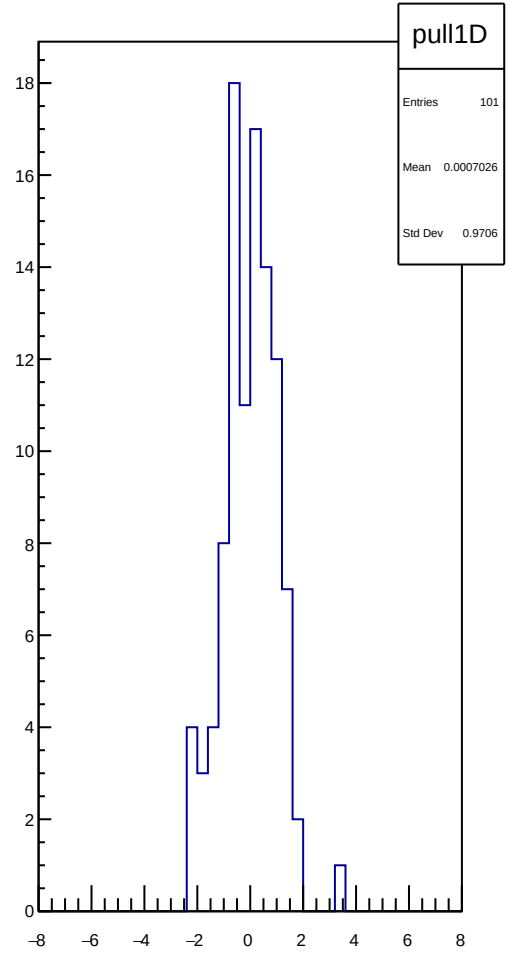

asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 1.059e+04 / 100
p0 2384 ± 1.722
3200
3000
2800
2600
2400
2200
2000

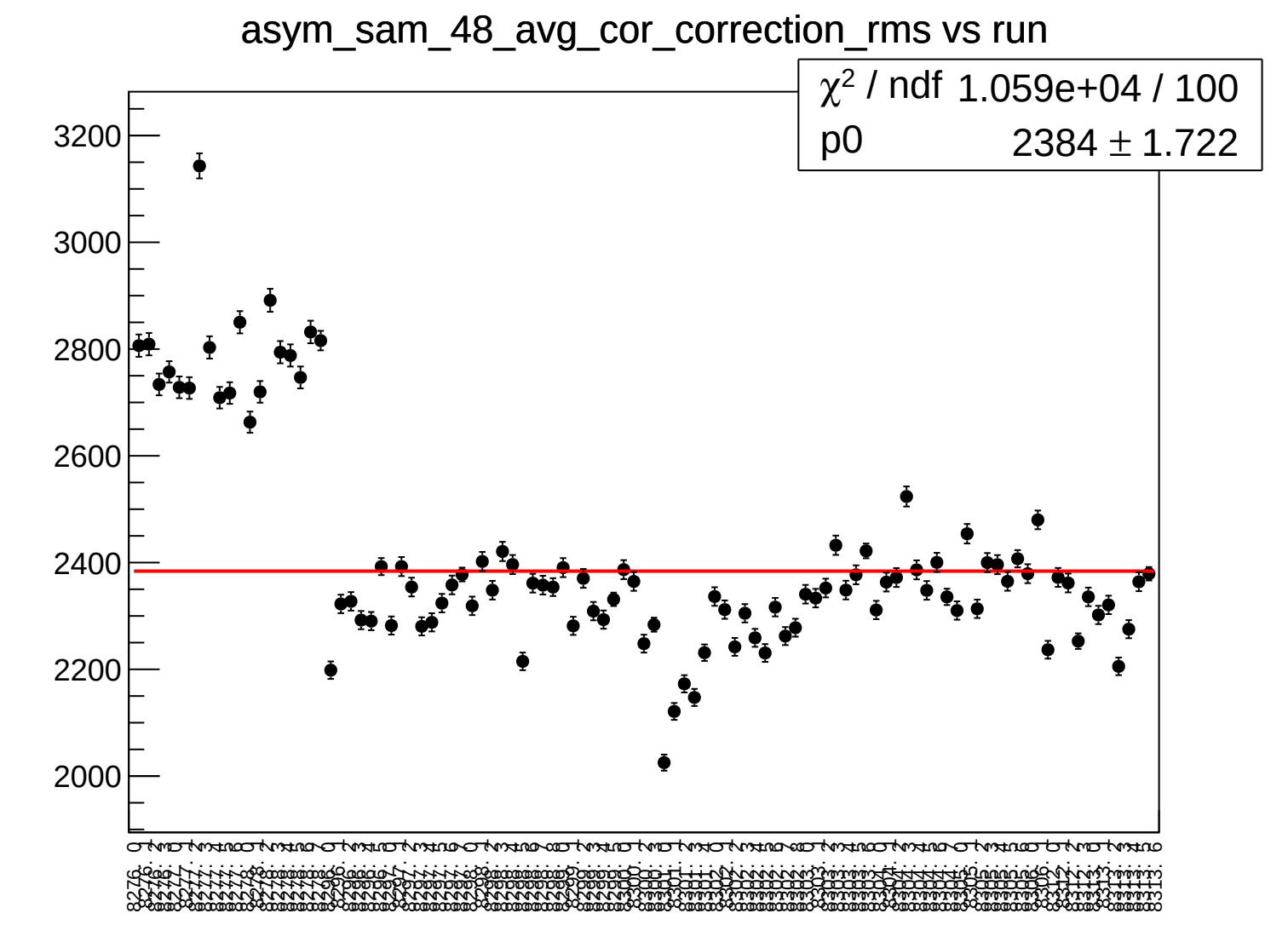

cor_asym_sam_48_avg_mean vs run
χ² / ndf 103.2 / 100
p0 −26.98 ± 175.6
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 101
Mean −125.9
Std Dev 0
2
1
0
−1
−2

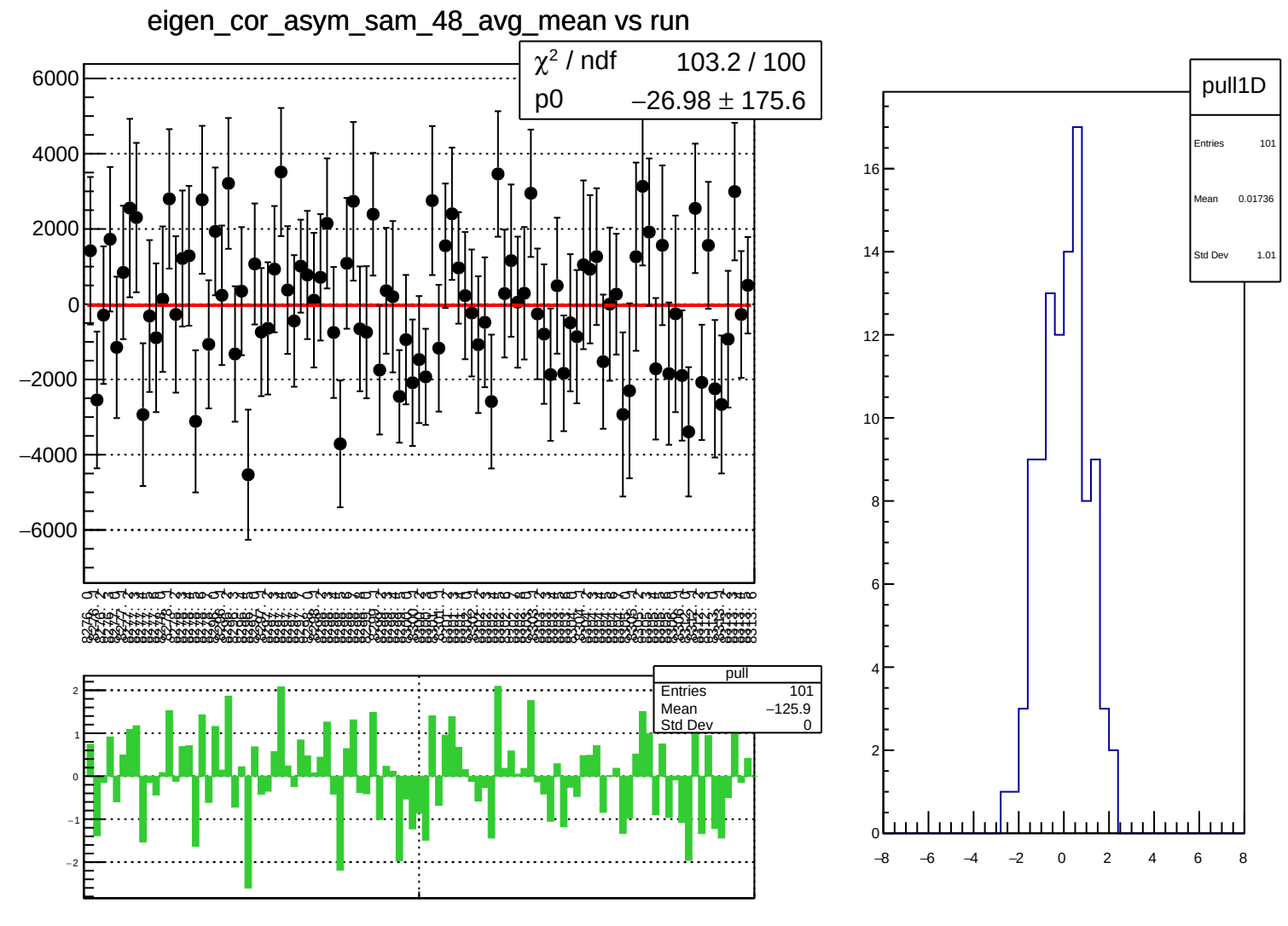

pull1D
Entries 101
Mean 0.01736
Std Dev 1.01
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

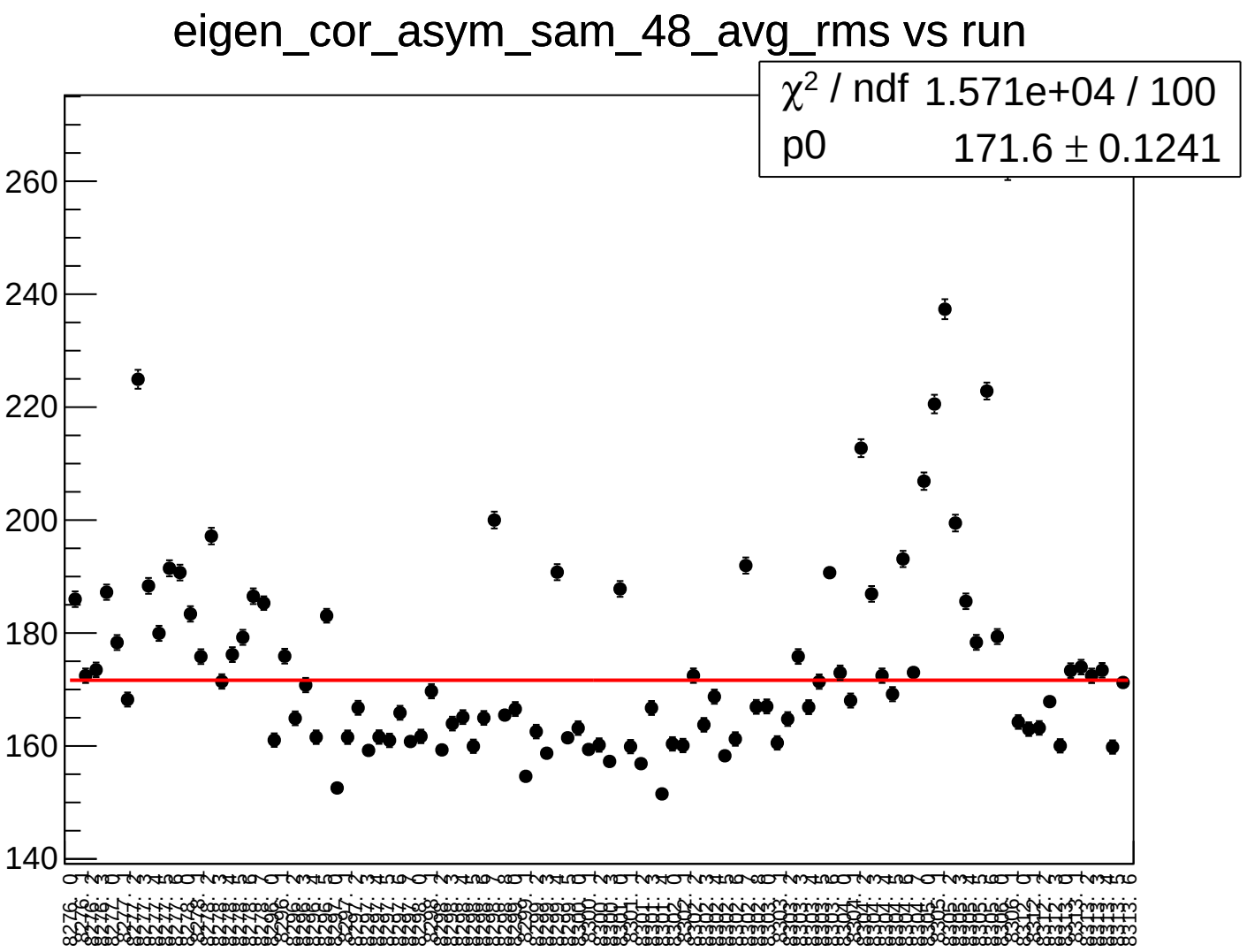

cor_asym_sam_48_avg_rms vs run
χ² / ndf 1.571e+04 / 100
p0 171.6 ± 0.1241
260
240
220
200
180
160
140

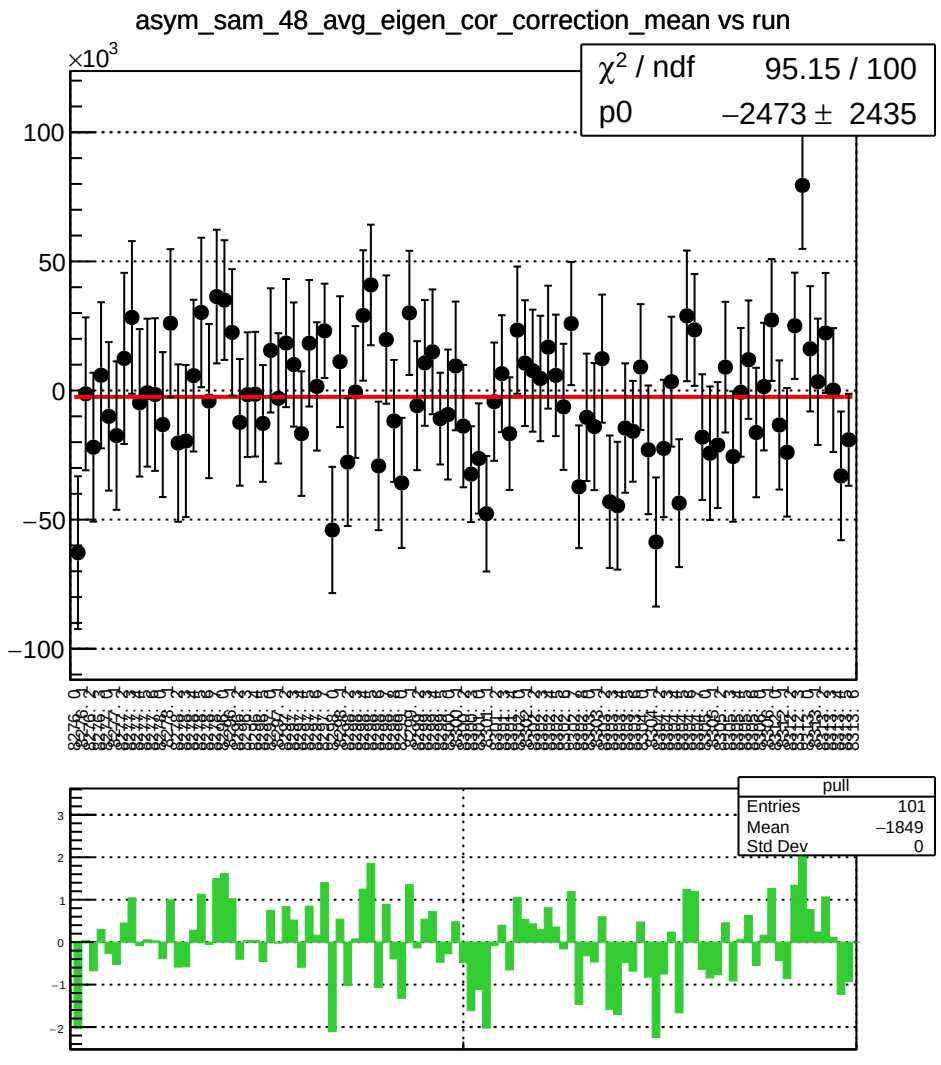

asym_sam_48_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 95.15 / 100
p0 −2473 ± 2435
100
50
0
−50
−100
pull
Entries 101
Mean −1849
Std Dev 0
3
2
1
0
−1
−2

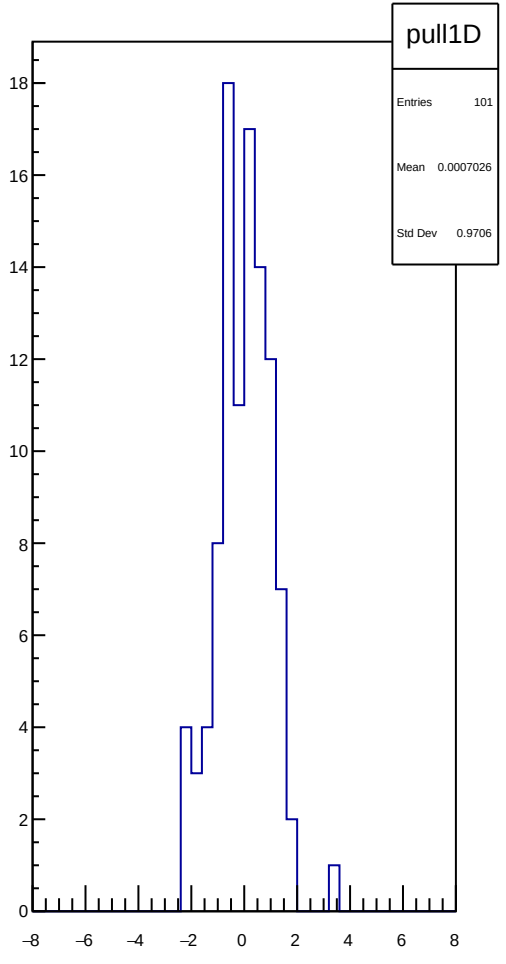

pull1D
Entries 101
Mean 0.0007026
Std Dev 0.9706
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

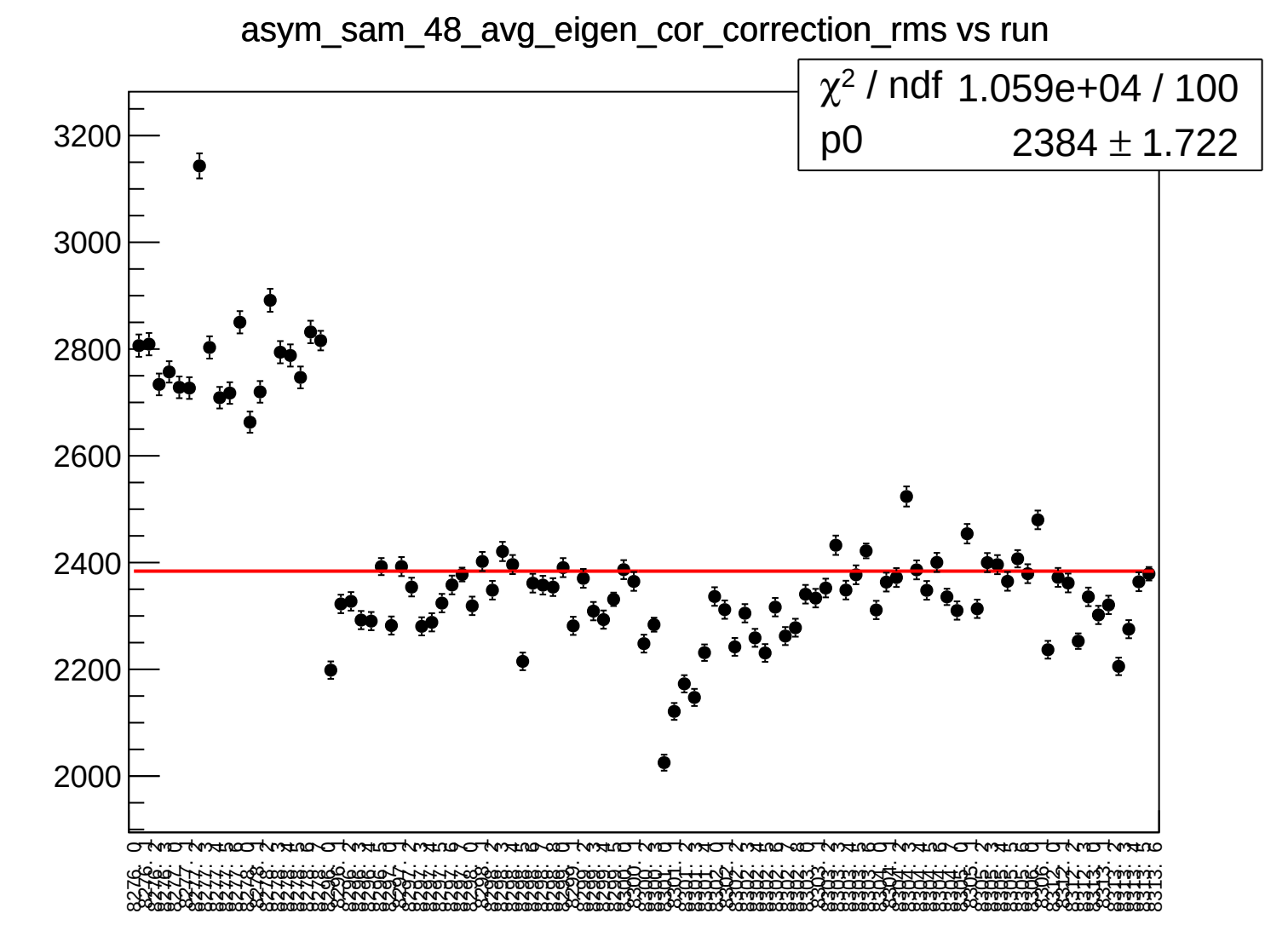

asym_sam_48_avg_cor_correction_rms vs run
χ² / ndf 1.059e+04 / 100
p0 2384 ± 1.722
3200
3000
2800
2600
2400
2200
2000

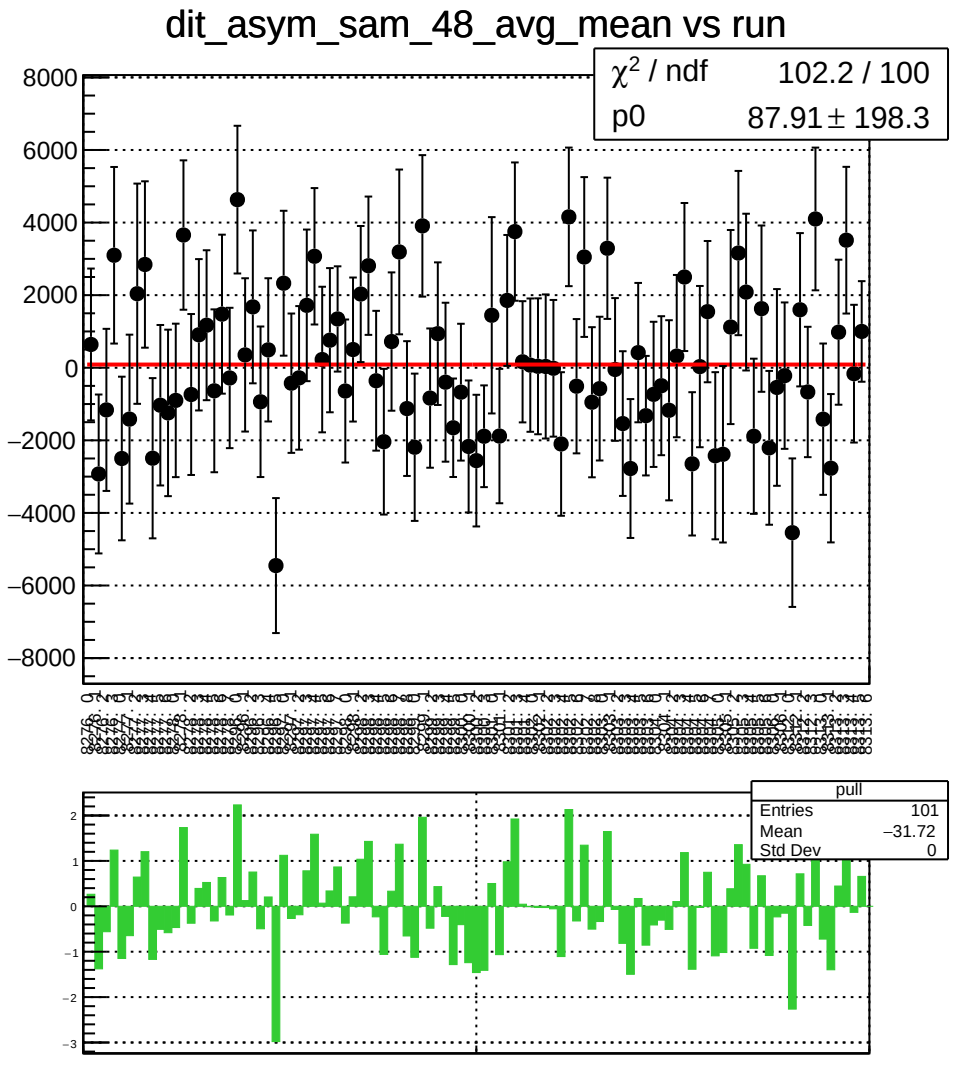

eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 103.2 / 100
p0 −26.98 ± 175.6
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 101
Mean −125.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.01736
Std Dev 1.01
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

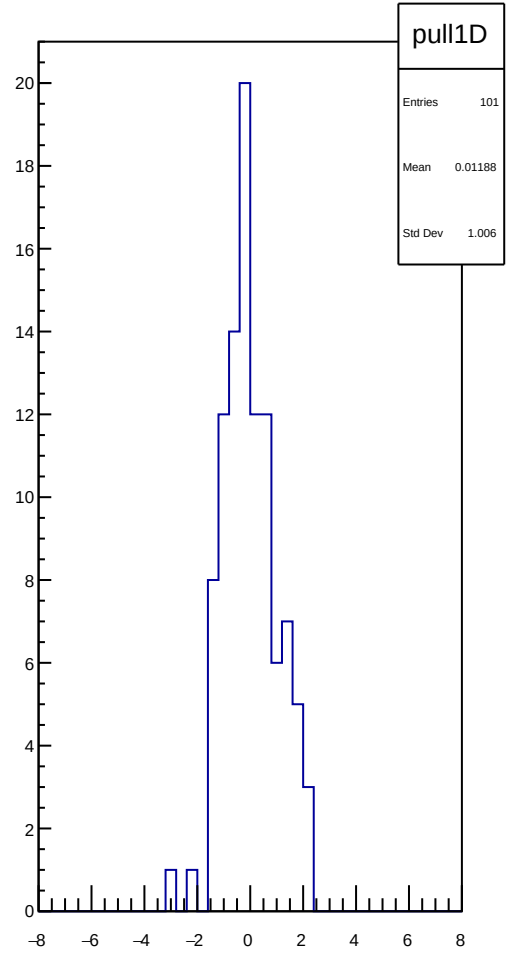

eigen_cor_asym_sam_48_avg_rms vs run
χ² / ndf 1.571e+04 / 100
p0 171.6 ± 0.1241
260
240
220
200
180
160
140

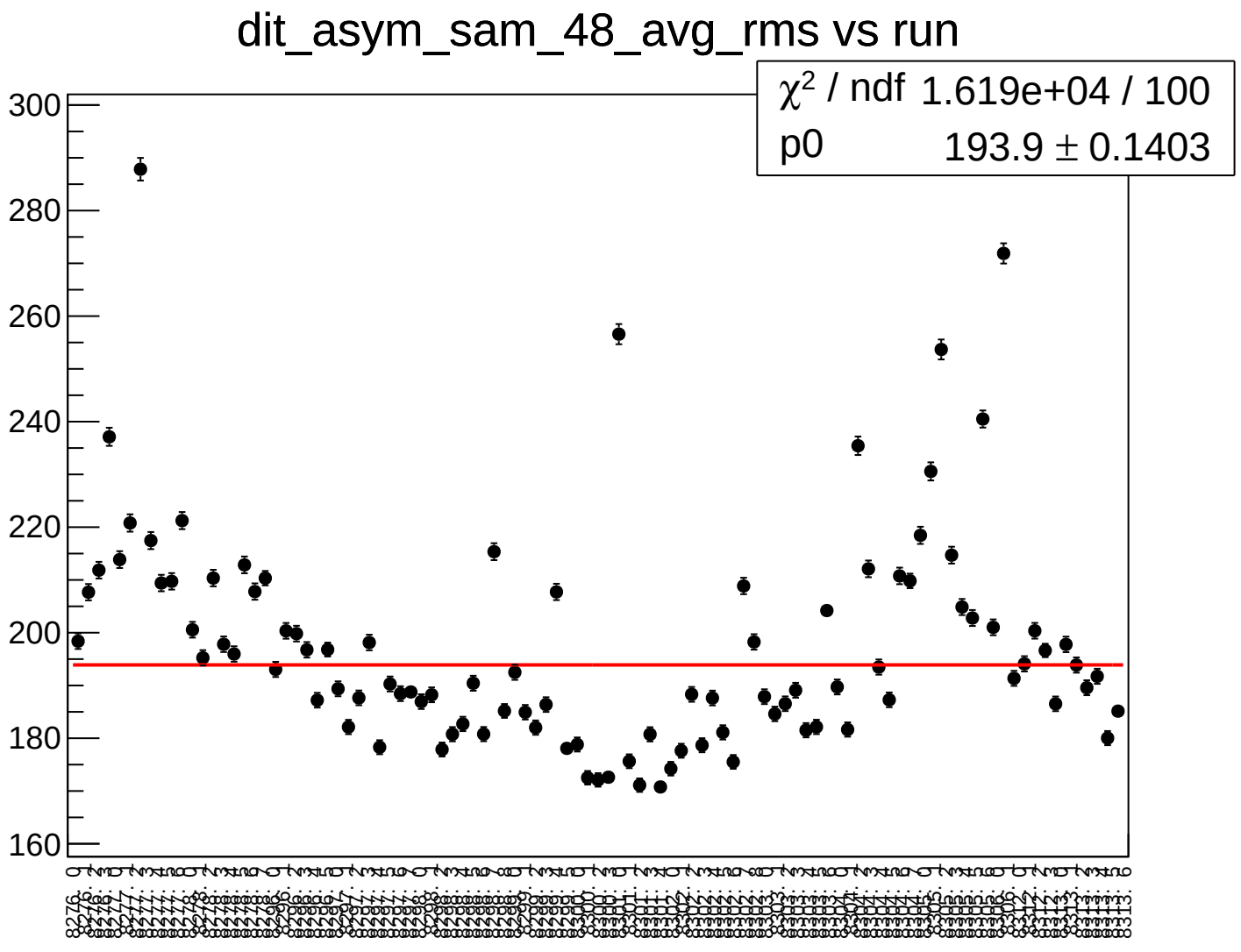

asym_sam_48_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 95.15 / 100
p0 −2473 ± 2435
100
50
0
−50
−100
pull
Entries 101
Mean −1849
Std Dev 0
3
2
1
0
−1
−2

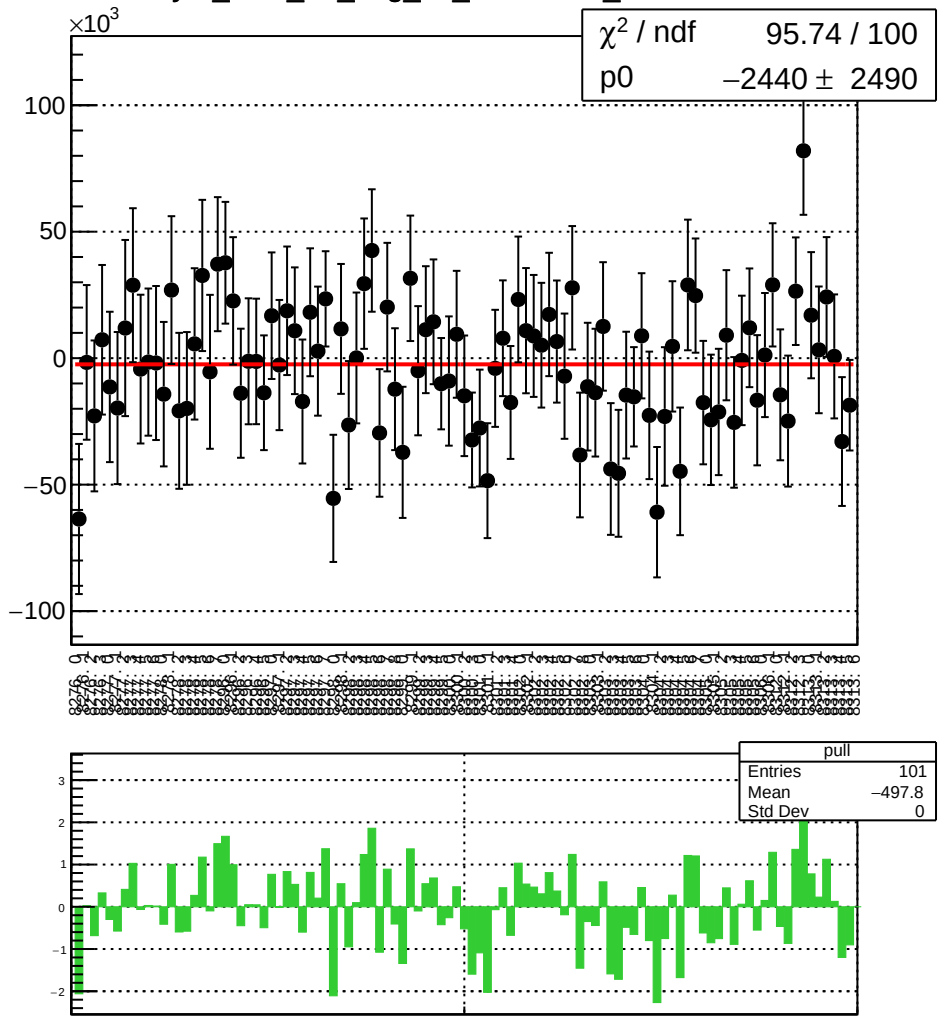

pull1D
Entries 101
Mean 0.0007026
Std Dev 0.9706
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

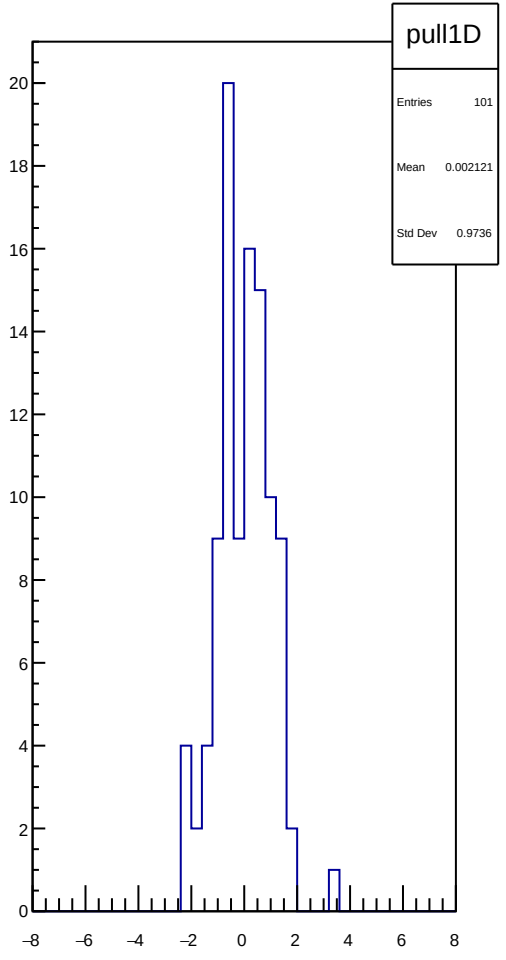

asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.059e+04 / 100
p0 2384 ± 1.722
3200
3000
2800
2600
2400
2200
2000

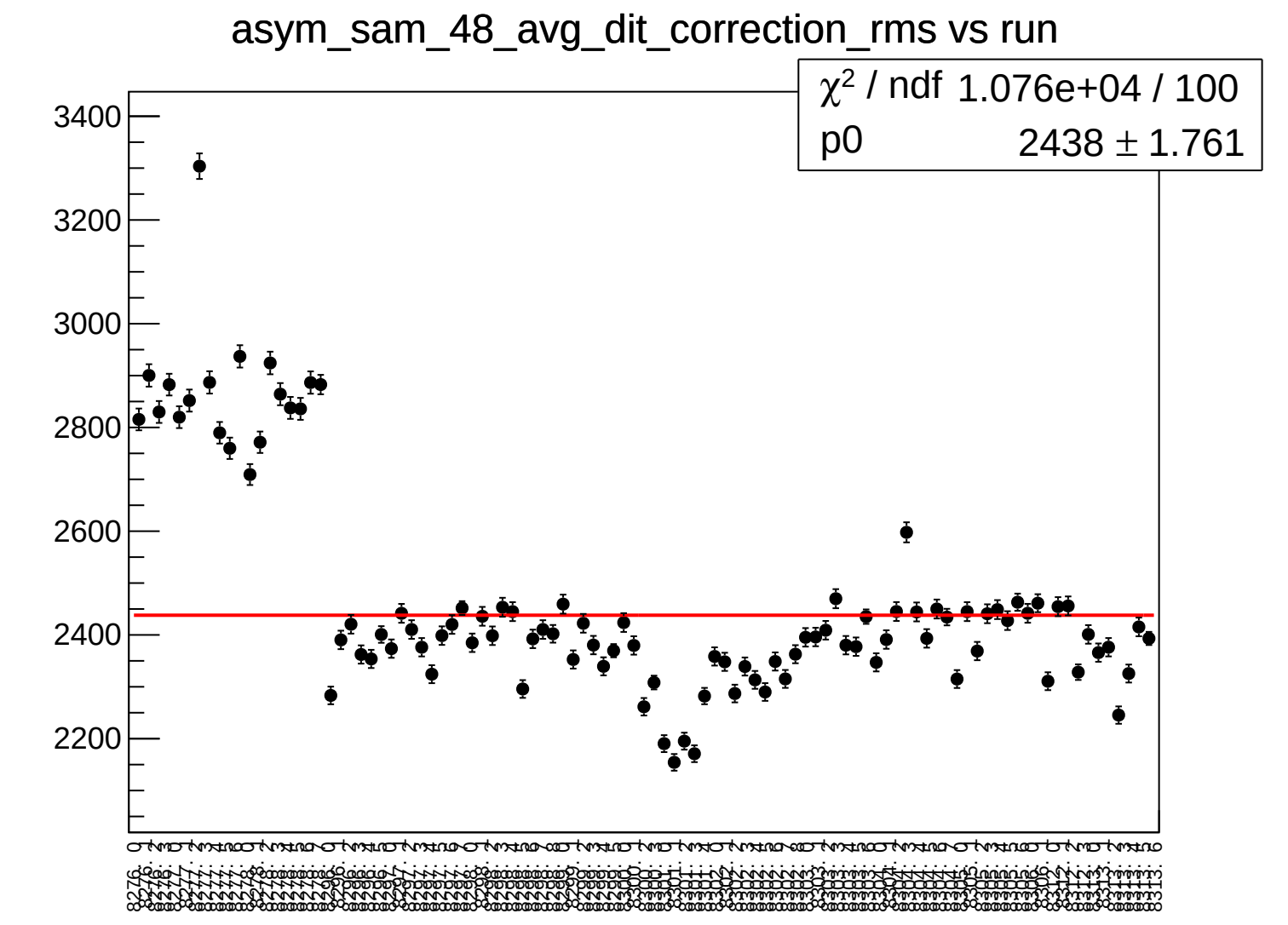

dit_asym_sam_48_avg_mean vs run
χ² / ndf 102.2 / 100
p0 87.91 ± 198.3
pull
Entries 101
Mean −31.72
Std Dev 0

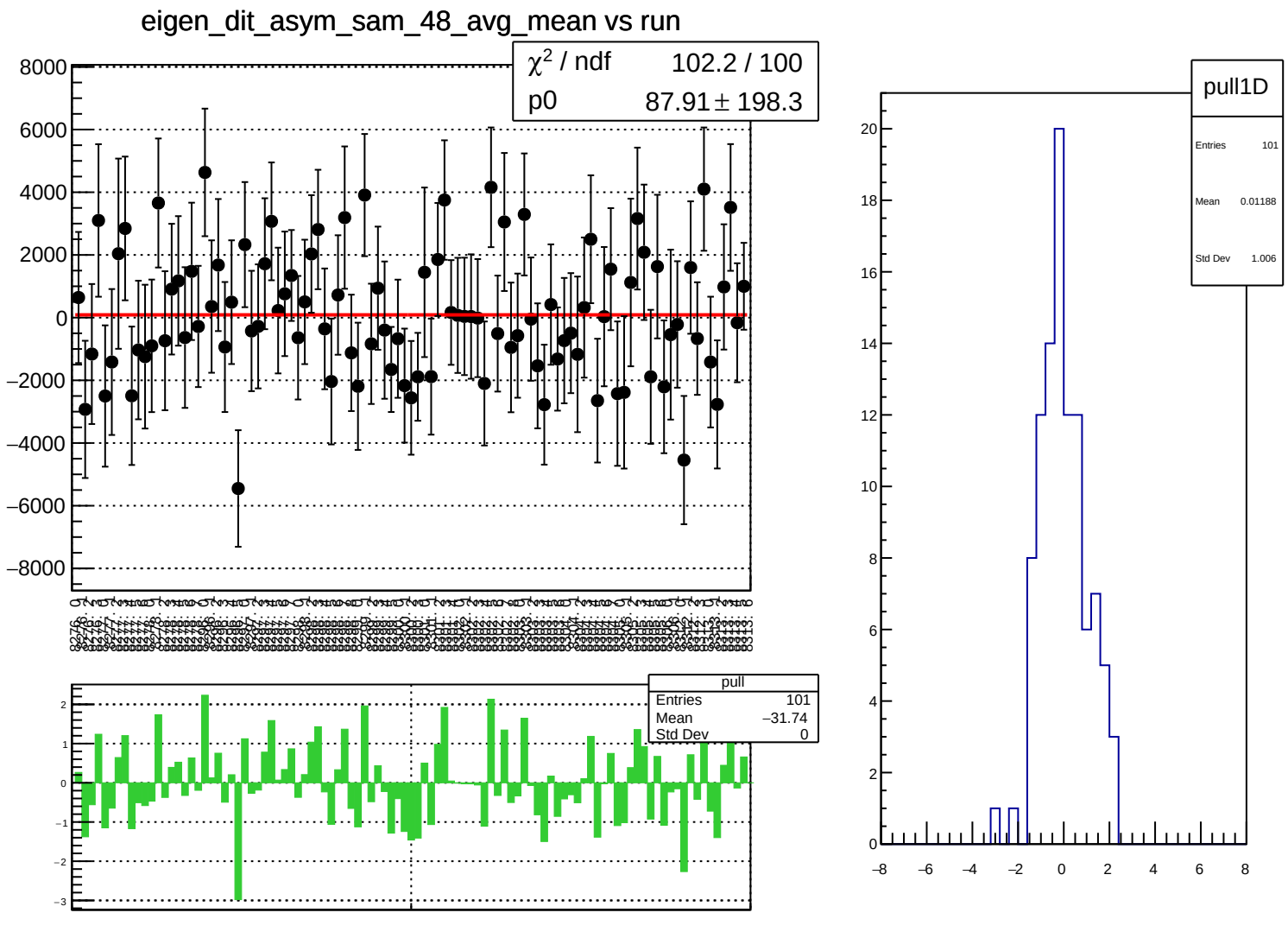

pull1D
Entries 101
Mean 0.01188
Std Dev 1.006

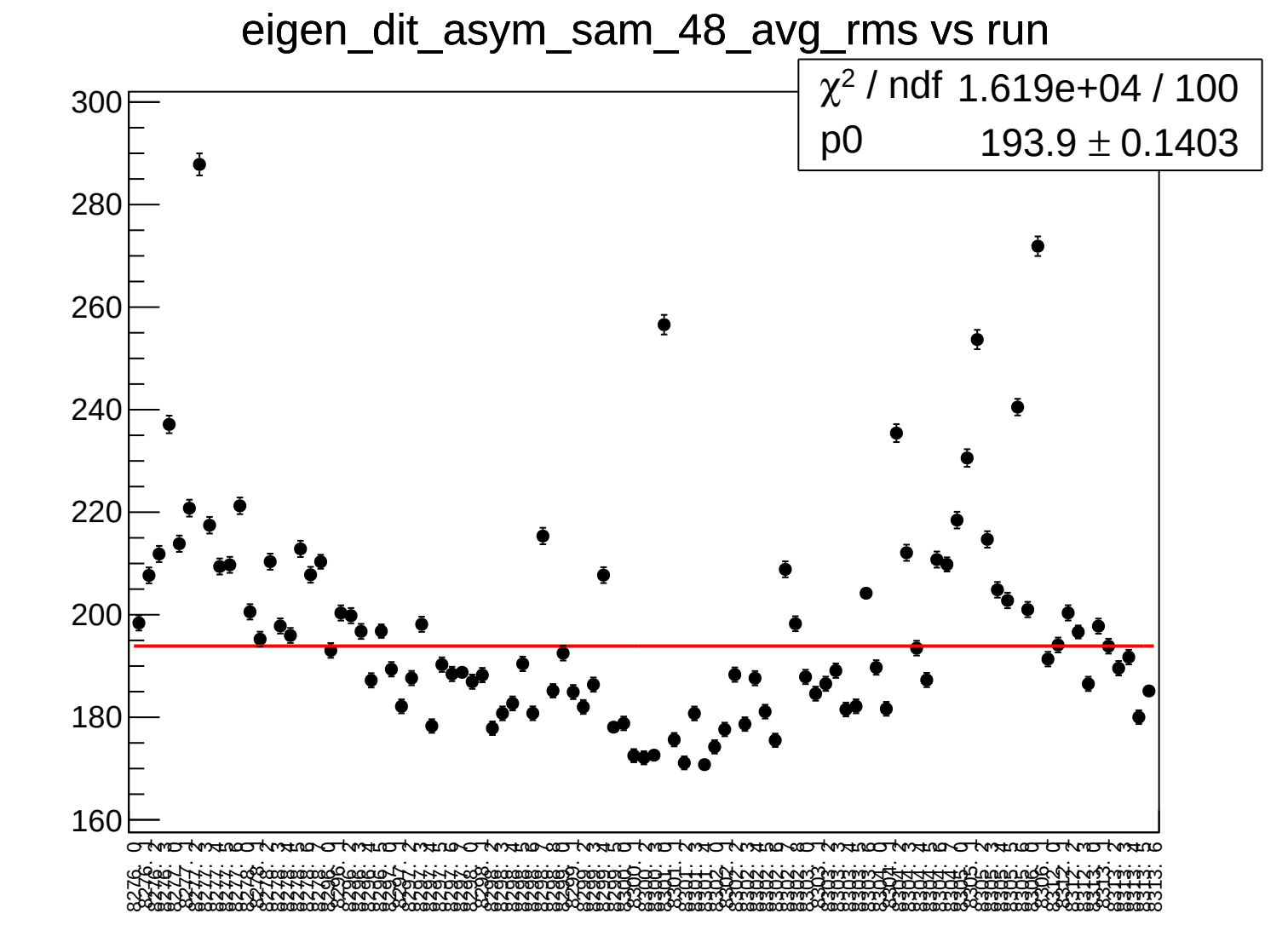

dit_asym_sam_48_avg_rms vs run
χ² / ndf 1.619e+04 / 100
p0 193.9 ± 0.1403
300
280
260
240
220
200
180
160

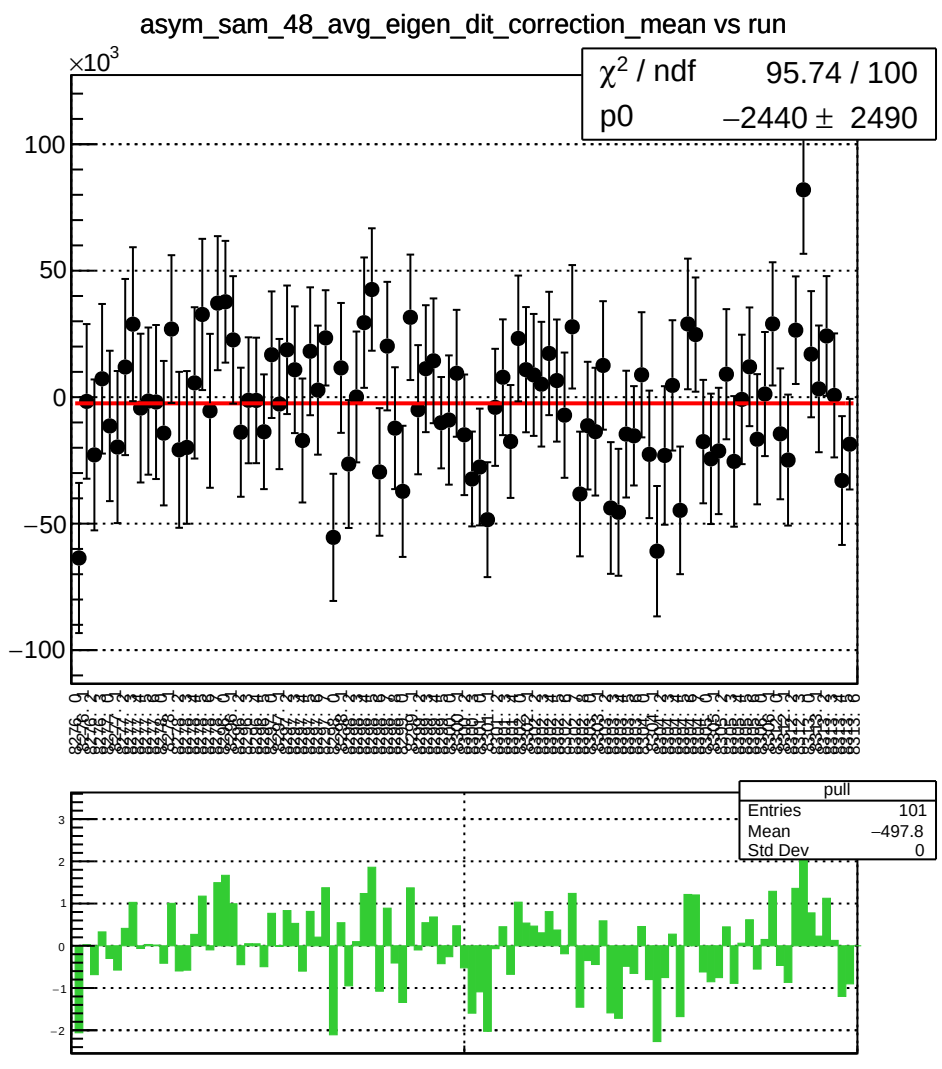

asym_sam_48_avg_dit_correction_mean vs run
×10^3
χ² / ndf 95.74 / 100
p0 −2440 ± 2490
100
50
0
−50
−100
pull
Entries 101
Mean −497.8
Std Dev 0
3
2
1
0
−1
−2

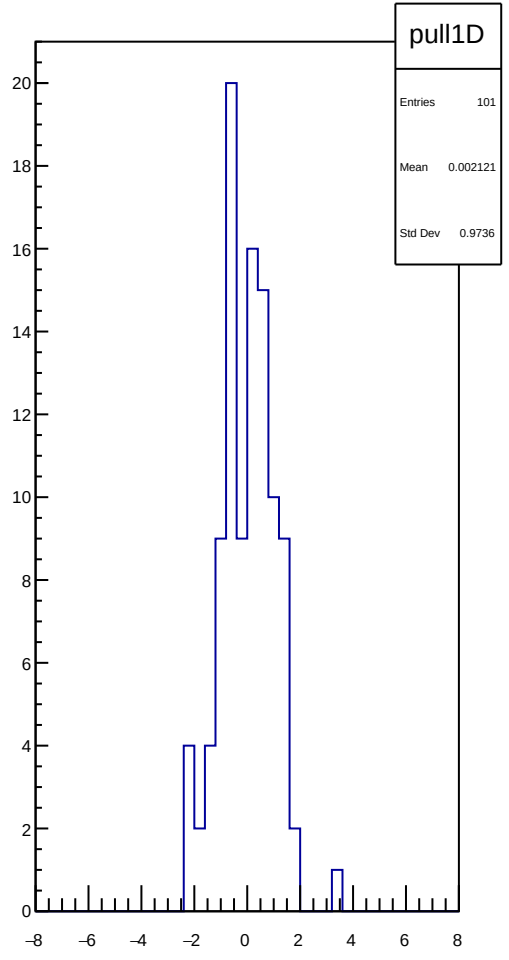

pull1D
Entries 101
Mean 0.002121
Std Dev 0.9736
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

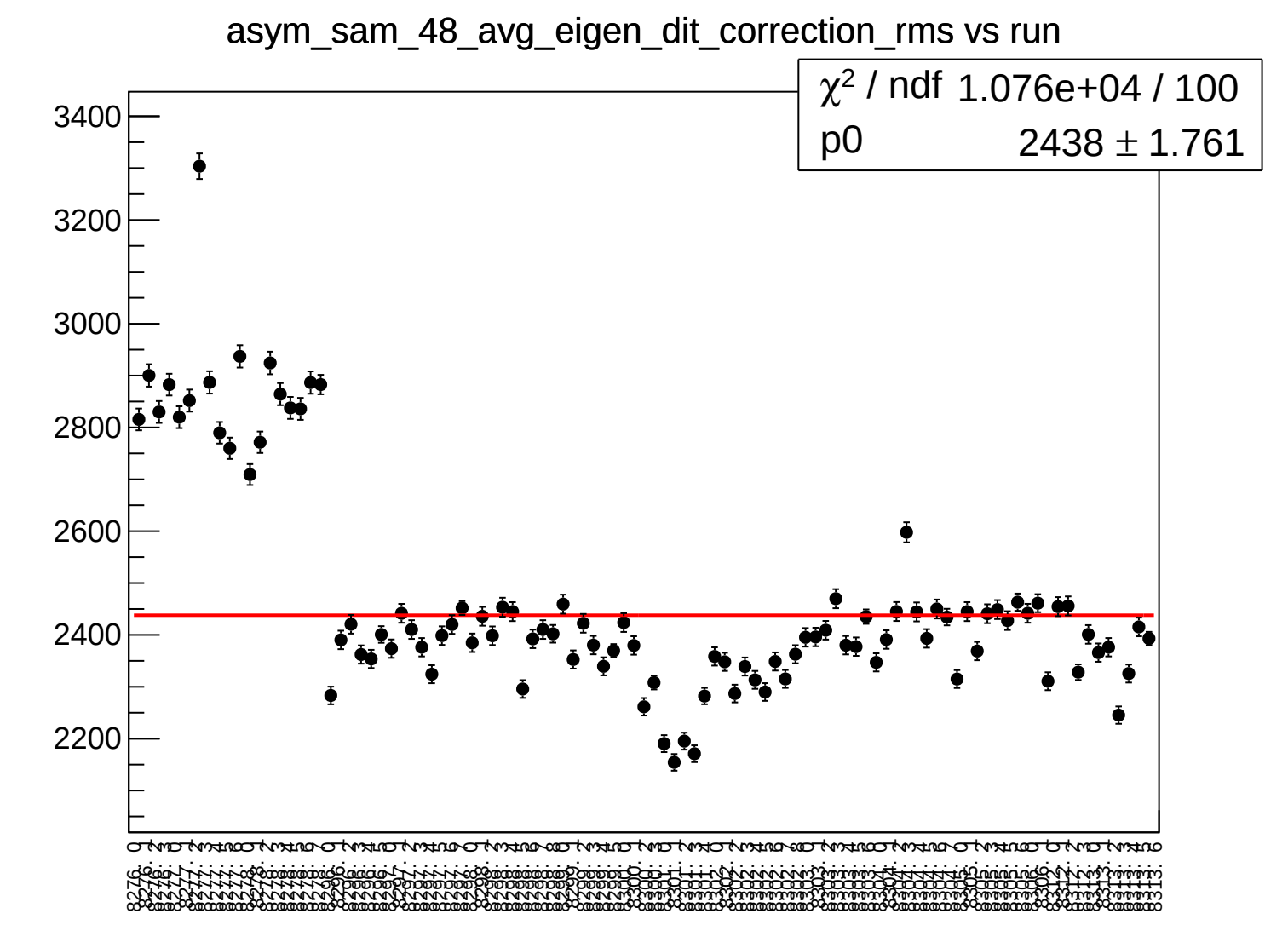

asym_sam_48_avg_dit_correction_rms vs run
χ² / ndf 1.076e+04 / 100
p0 2438 ± 1.761
3400
3200
3000
2800
2600
2400
2200

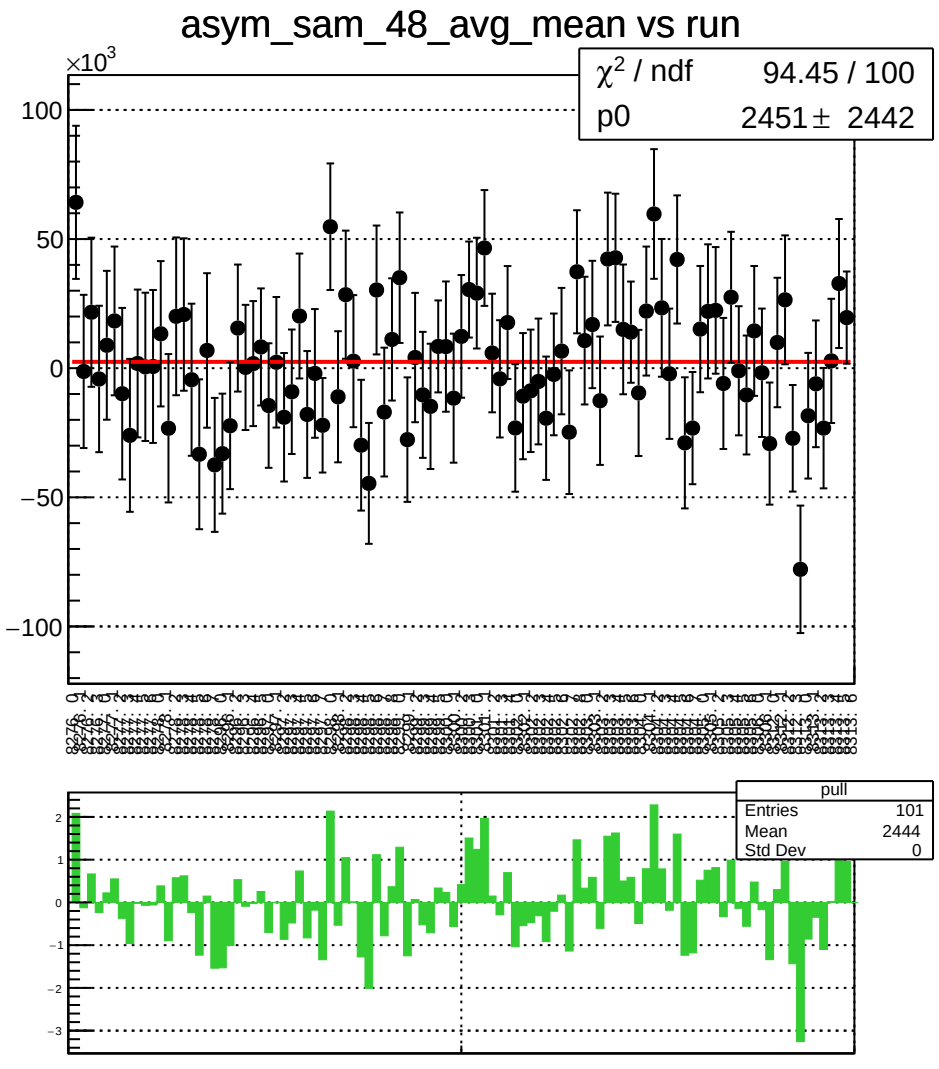

eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 102.2 / 100
p0 87.91 ± 198.3
pull
Entries 101
Mean −31.74
Std Dev 0
pull1D
Entries 101
Mean 0.01188
Std Dev 1.006

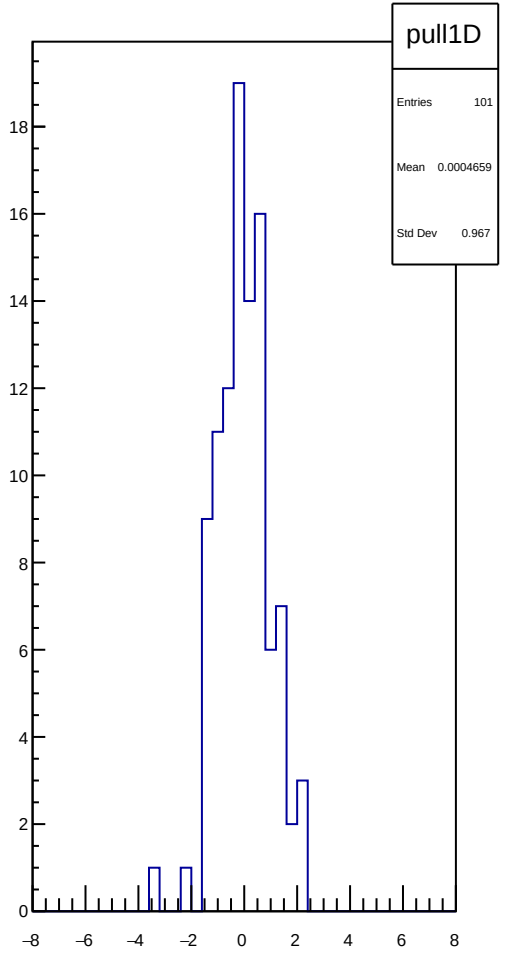

eigen_dit_asym_sam_48_avg_rms vs run
χ² / ndf 1.619e+04 / 100
p0 193.9 ± 0.1403
300
280
260
240
220
200
180
160

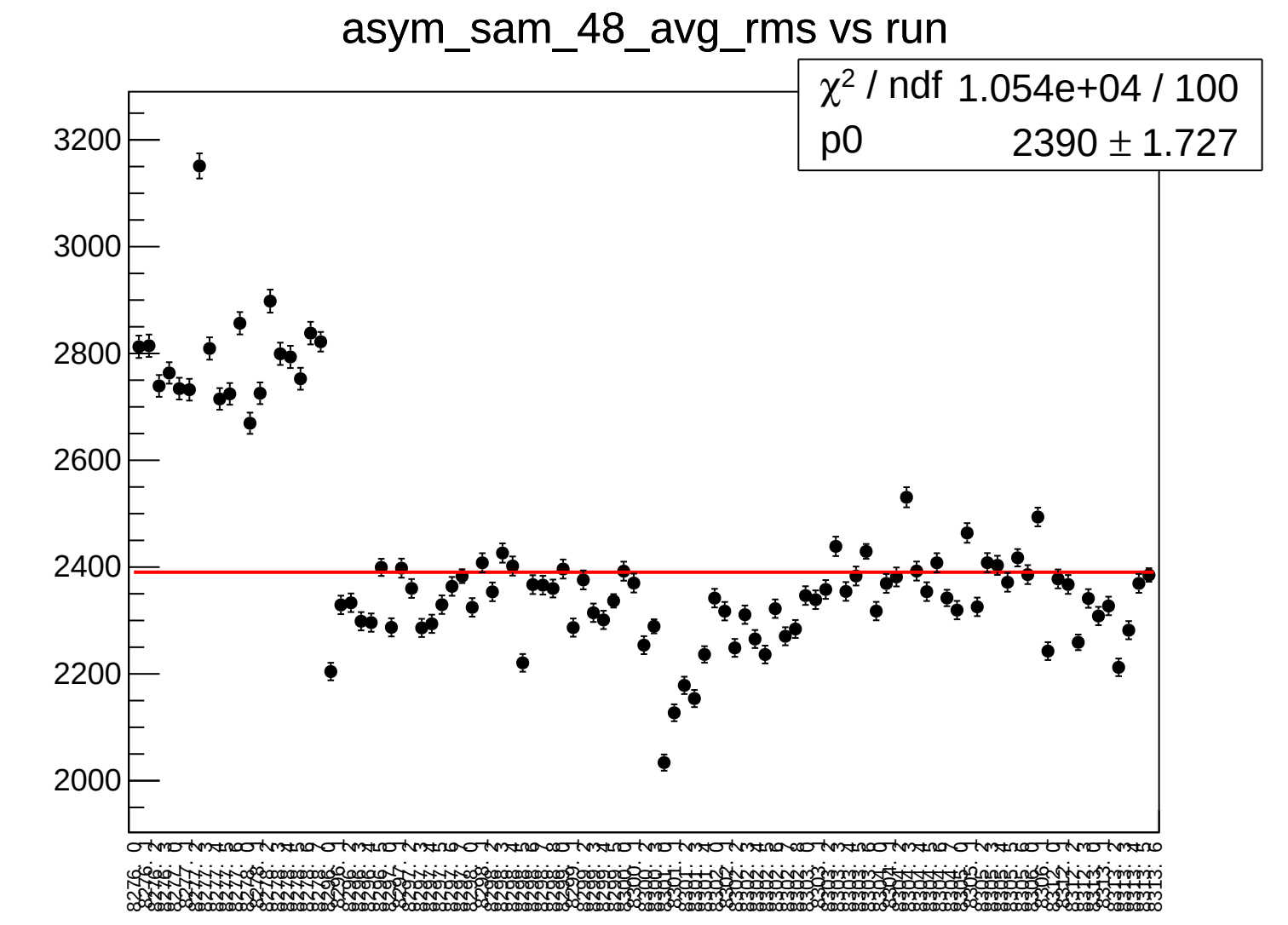

asym_sam_48_avg_eigen_dit_correction_mean vs run
χ² / ndf 95.74 / 100
p0 −2440 ± 2490
×10³
100
50
0
−50
−100
pull
Entries 101
Mean −497.8
Std Dev 0
3
2
1
0
−1
−2

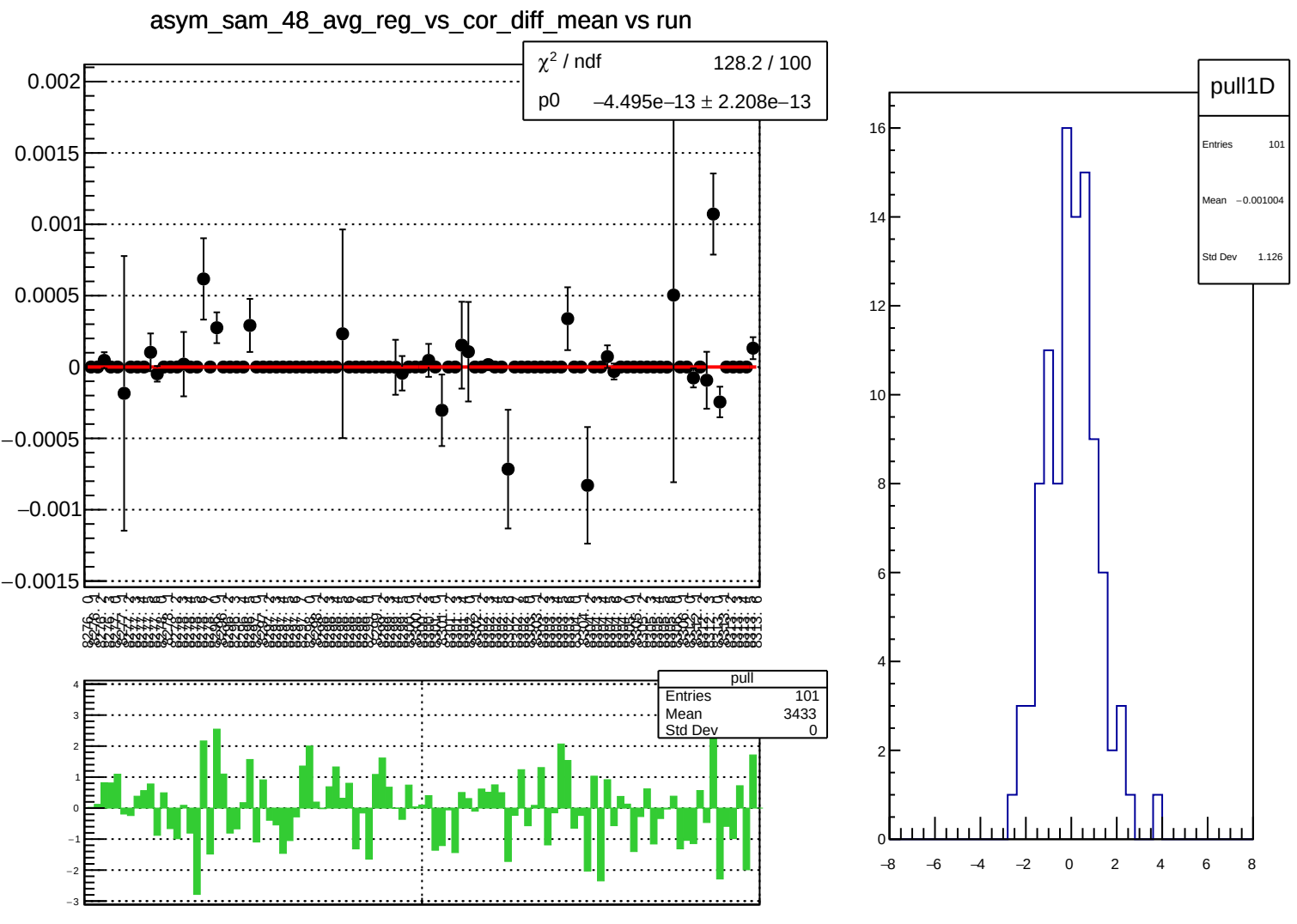

pull1D
Entries 101
Mean 0.002121
Std Dev 0.9736
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

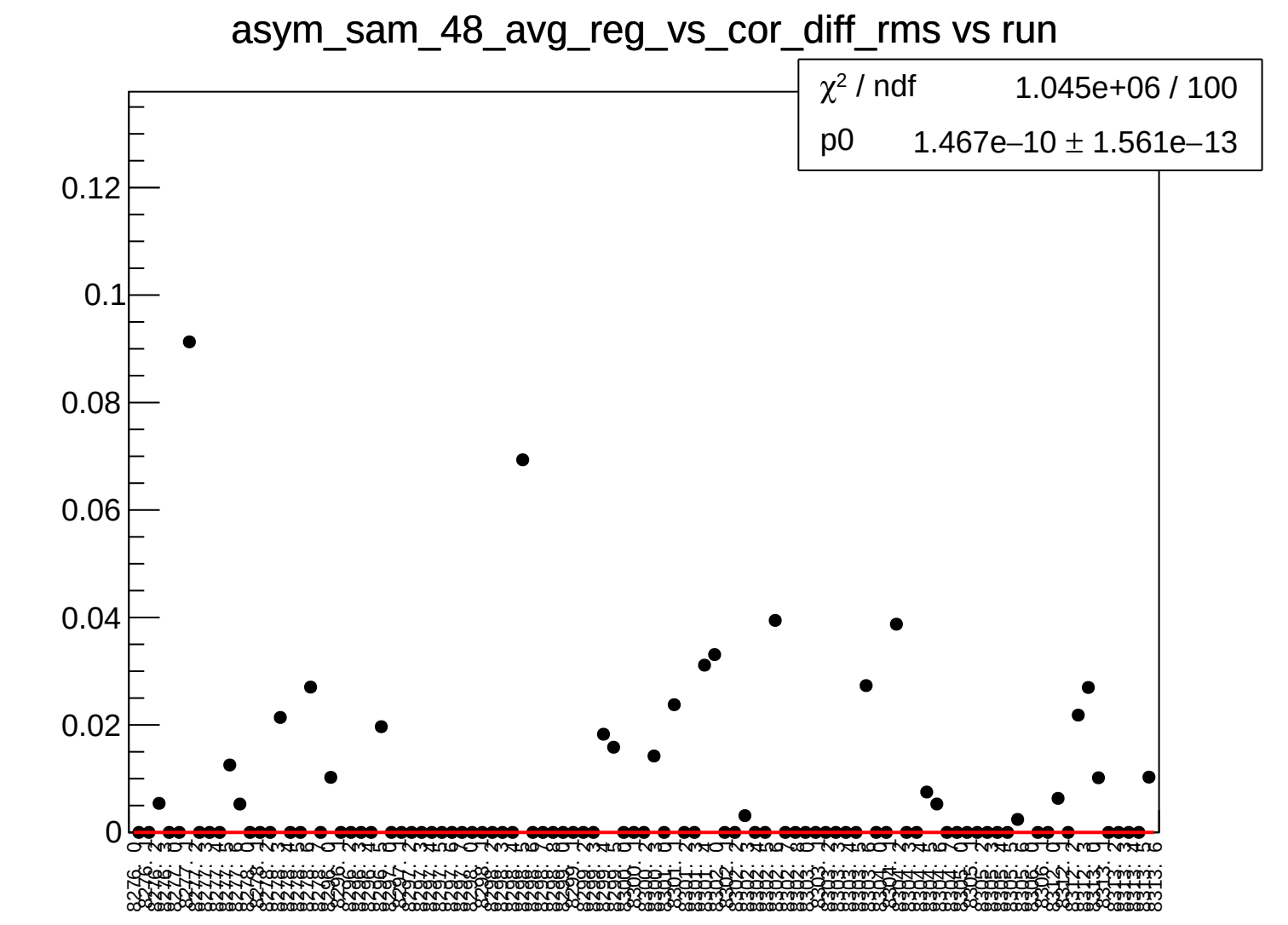

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.076e+04 / 100
p0 2438 ± 1.761
3400
3200
3000
2800
2600
2400
2200

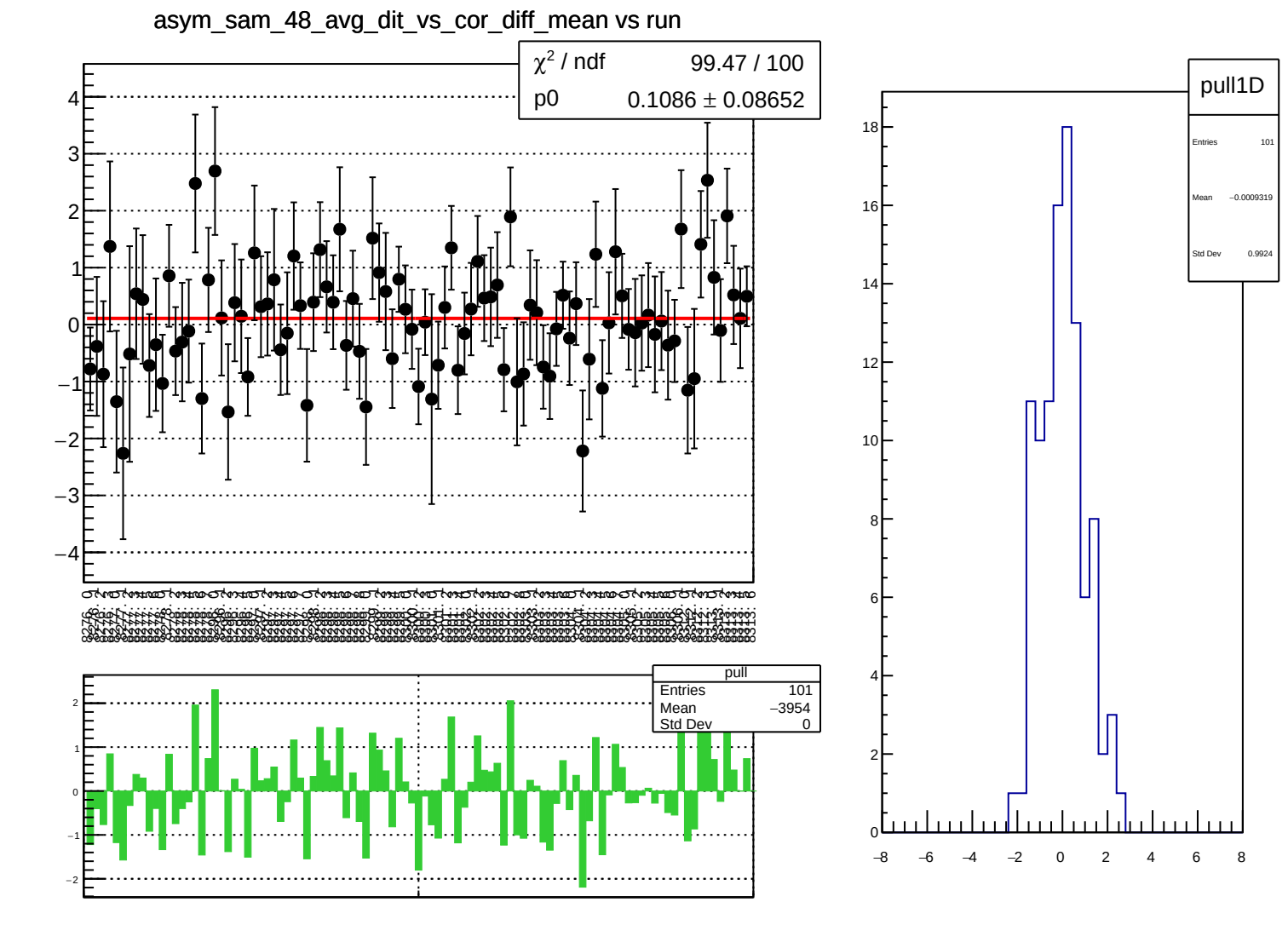

asym_sam_48_avg_mean vs run
×10^3
χ^2 / ndf 94.45 / 100
p0 2451 ± 2442
100
50
0
−50
−100
pull
Entries 101
Mean 2444
Std Dev 0
2
1
0
−1
−2
−3

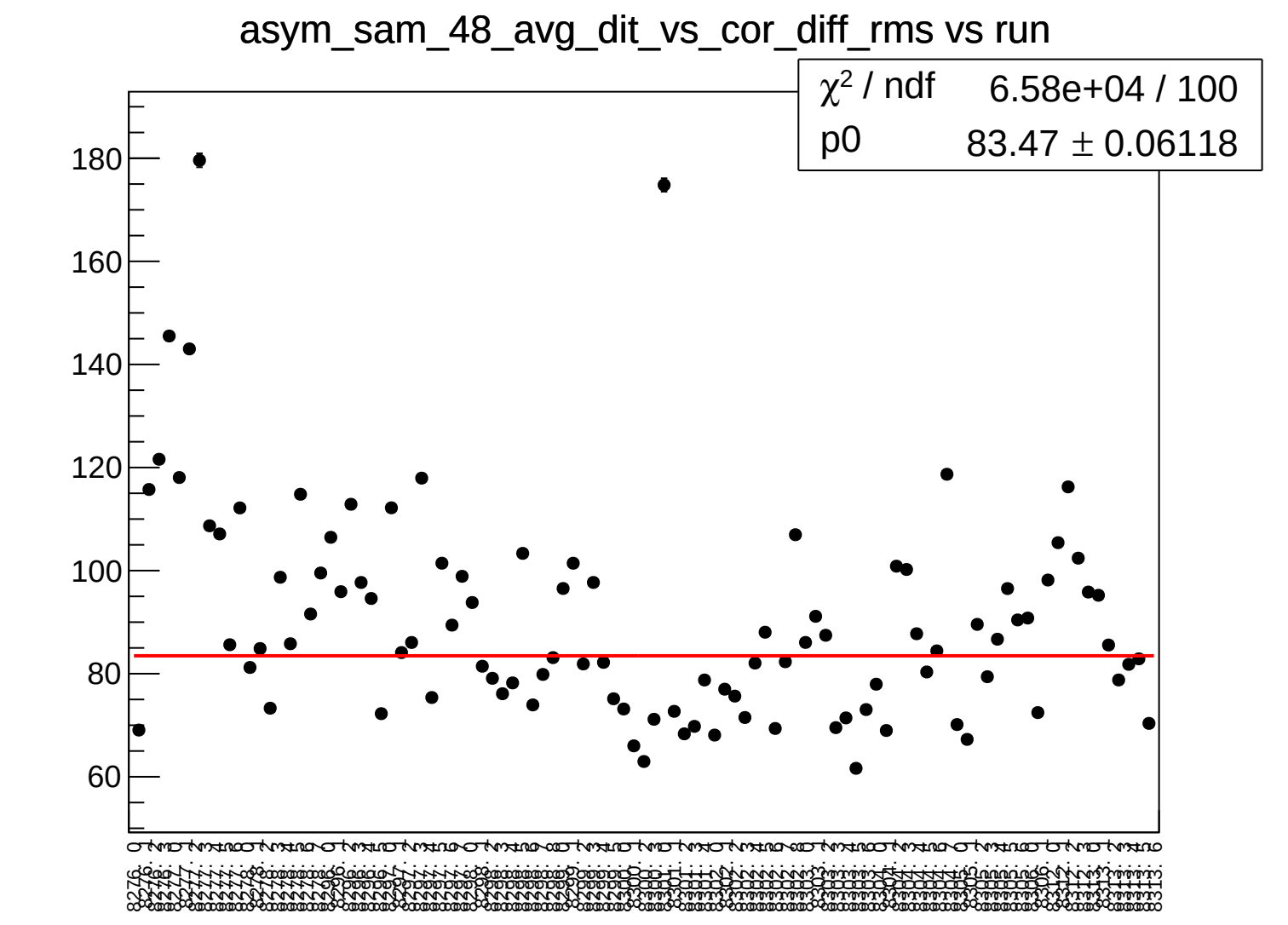

pull1D
Entries 101
Mean 0.0004659
Std Dev 0.967
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

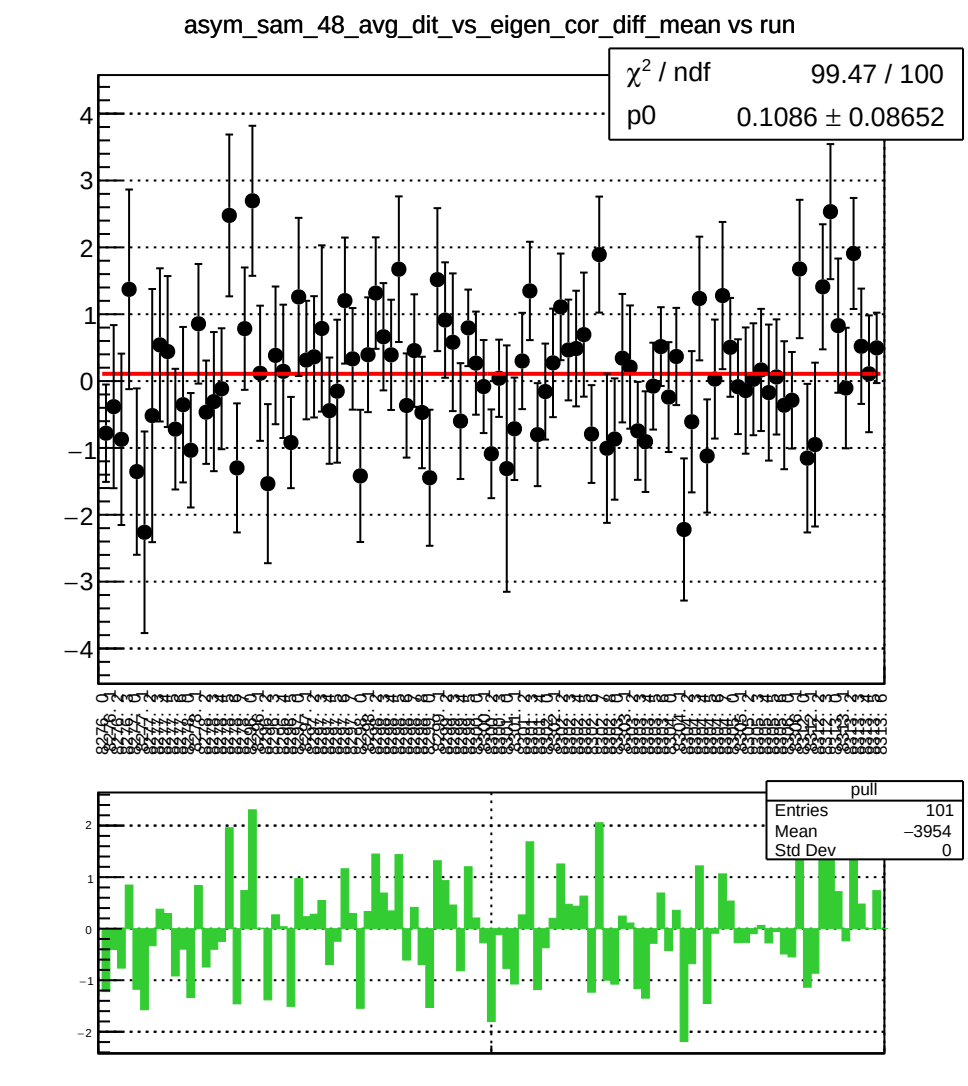

asym_sam_48_avg_rms vs run
χ² / ndf 1.054e+04 / 100
p0 2390 ± 1.727
3200
3000
2800
2600
2400
2200
2000

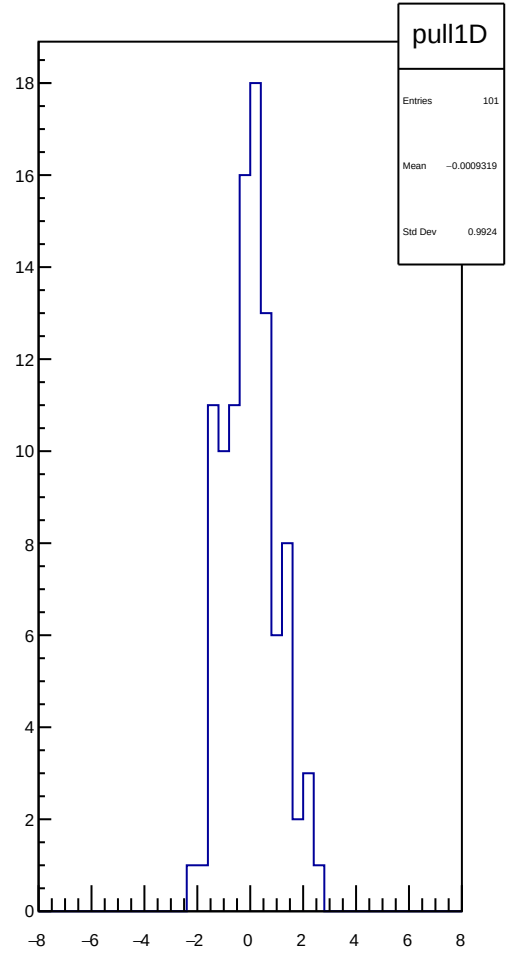

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 128.2 / 100
p0 −4.495e−13 ± 2.208e−13
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 101
Mean 3433
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean −0.001004
Std Dev 1.126
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

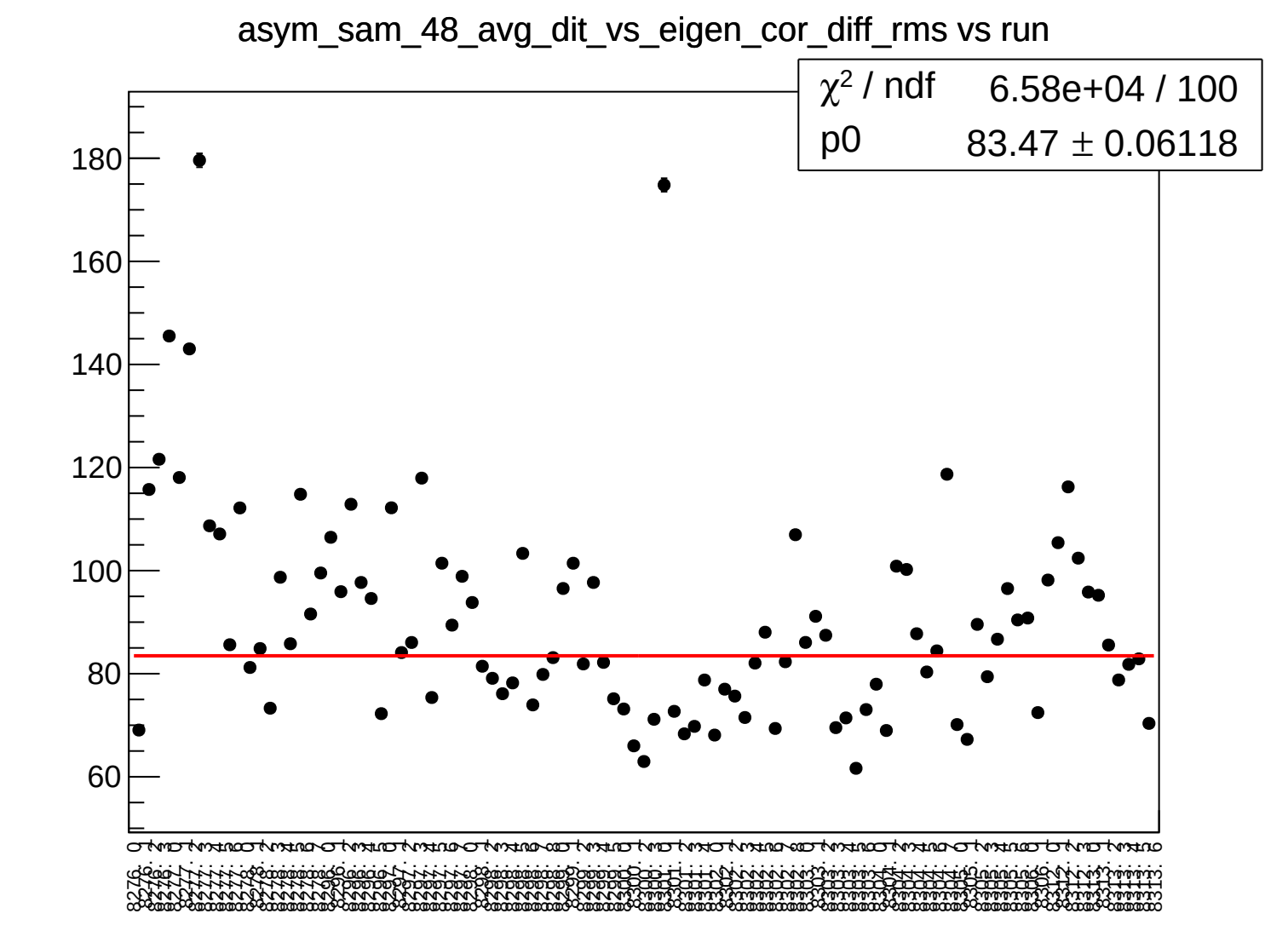

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.045e+06 / 100
p0 1.467e−10 ± 1.561e−13
0.12
0.1
0.08
0.06
0.04
0.02
0

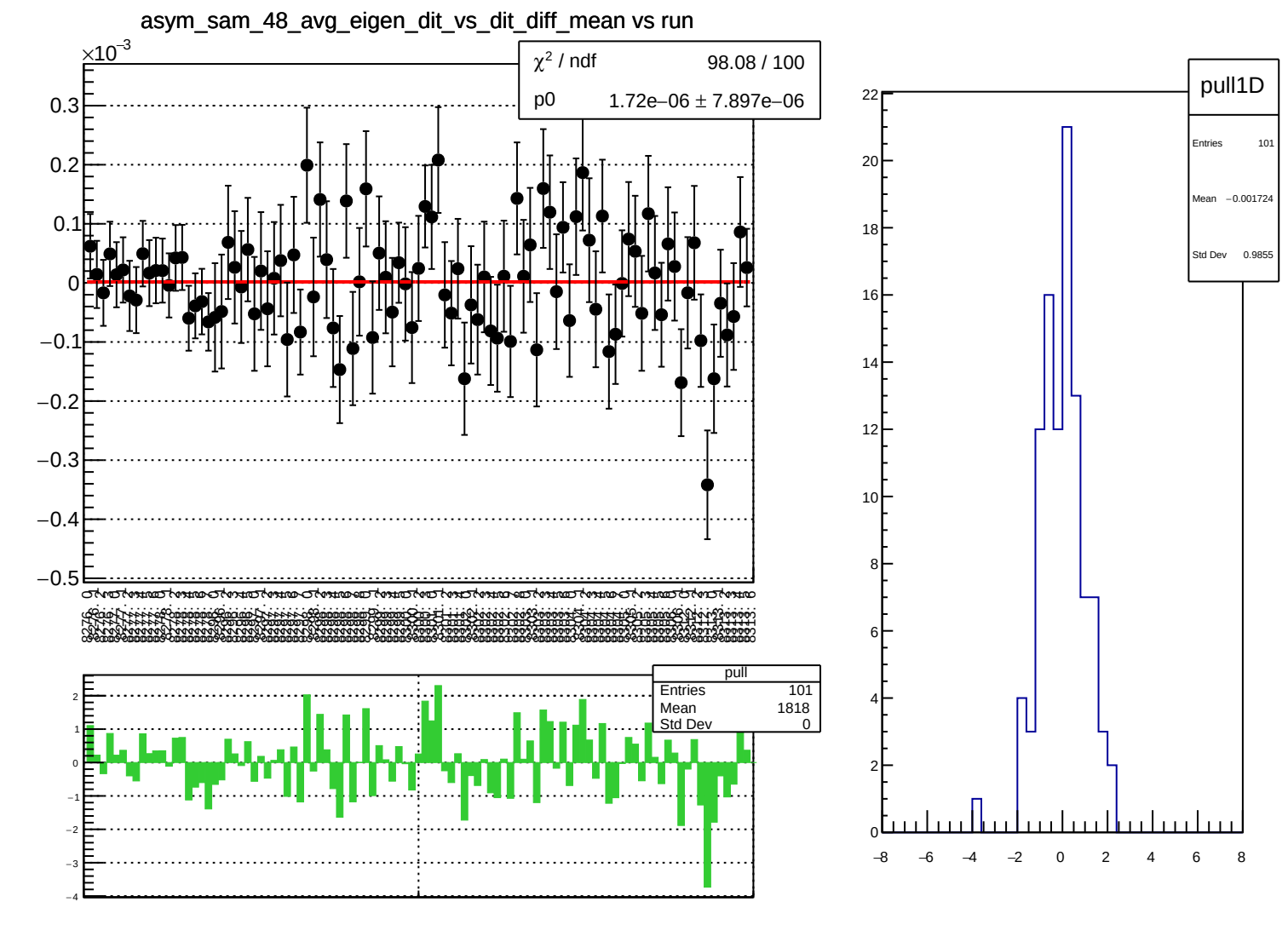

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 99.47 / 100
p0 0.1086 ± 0.08652
pull
Entries 101
Mean −3954
Std Dev 0
pull1D
Entries 101
Mean −0.0009319
Std Dev 0.9924

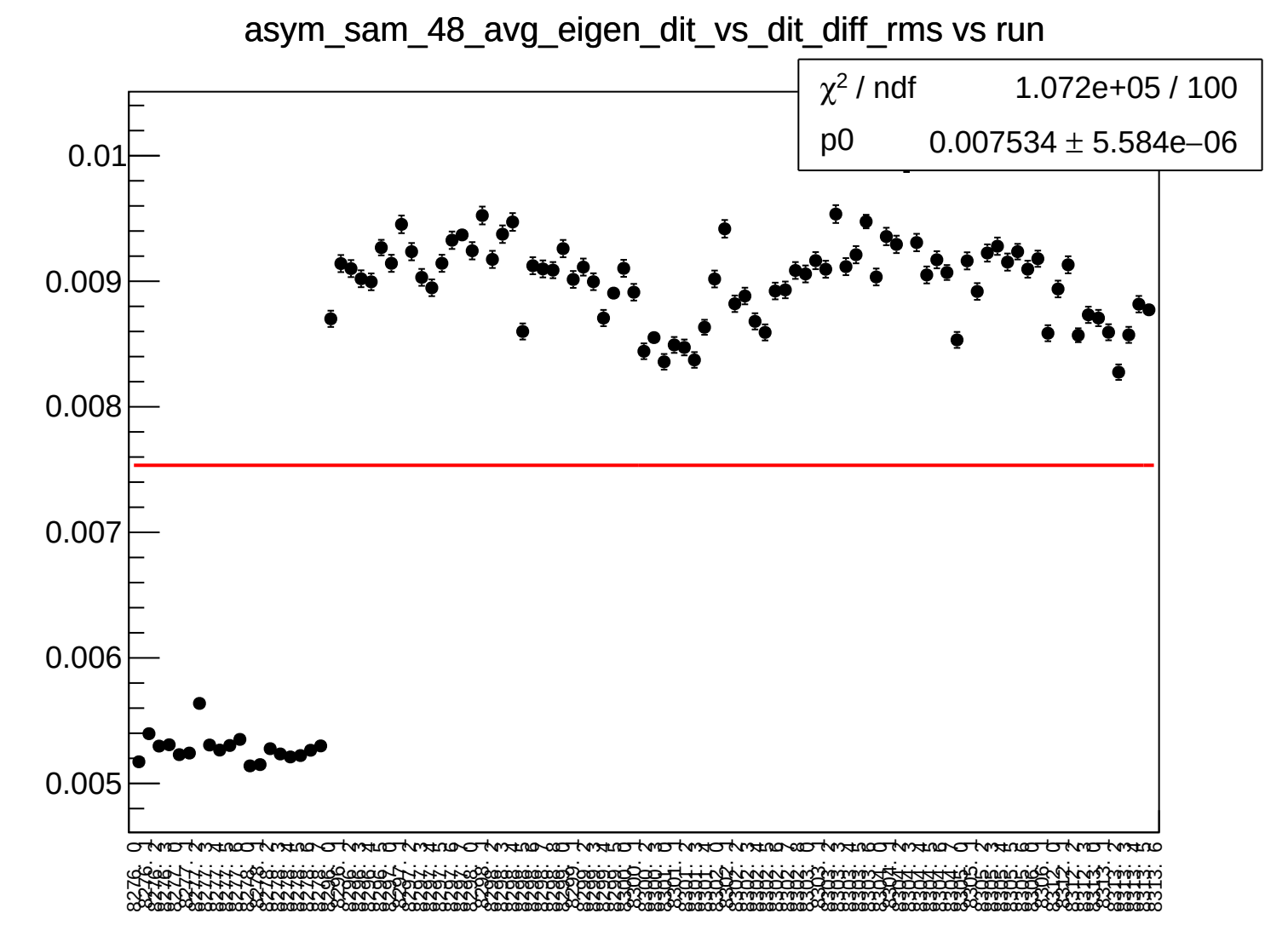

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6.58e+04 / 100
p0 83.47 ± 0.06118
180
160
140
120
100
80
60

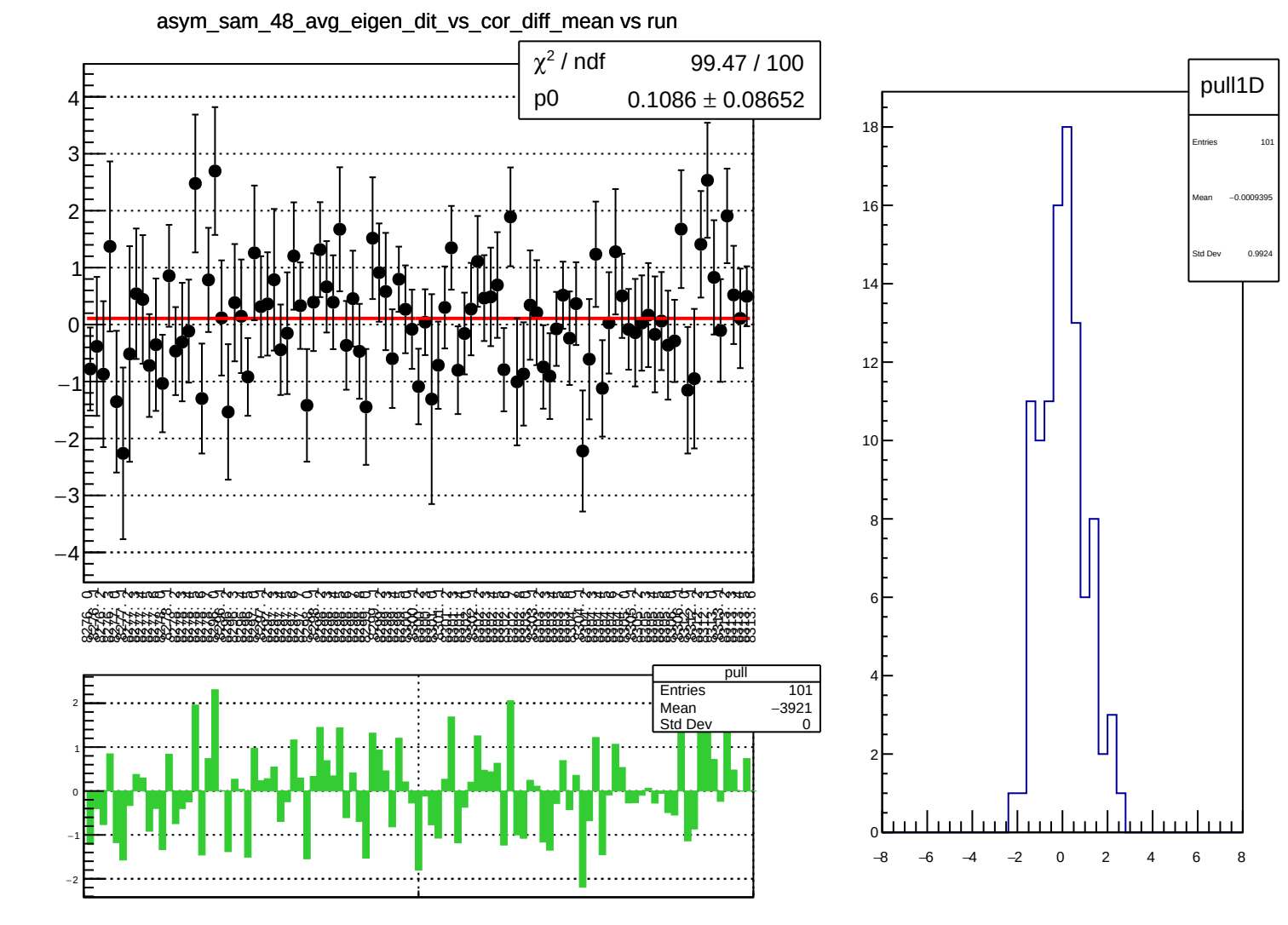

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.47 / 100
p0 0.1086 ± 0.08652
pull
Entries 101
Mean −3954
Std Dev 0

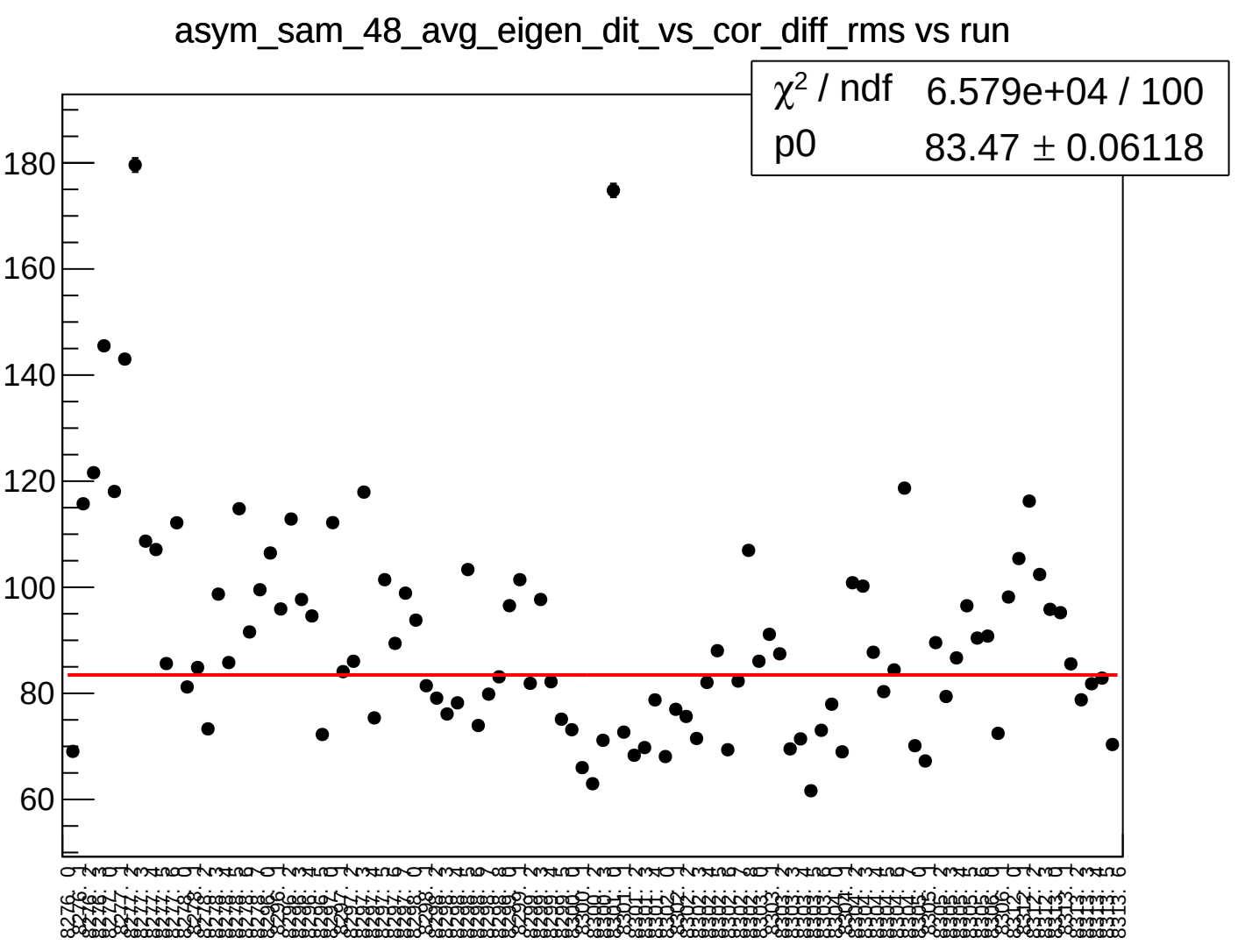

pull1D
Entries 101
Mean −0.0009319
Std Dev 0.9924

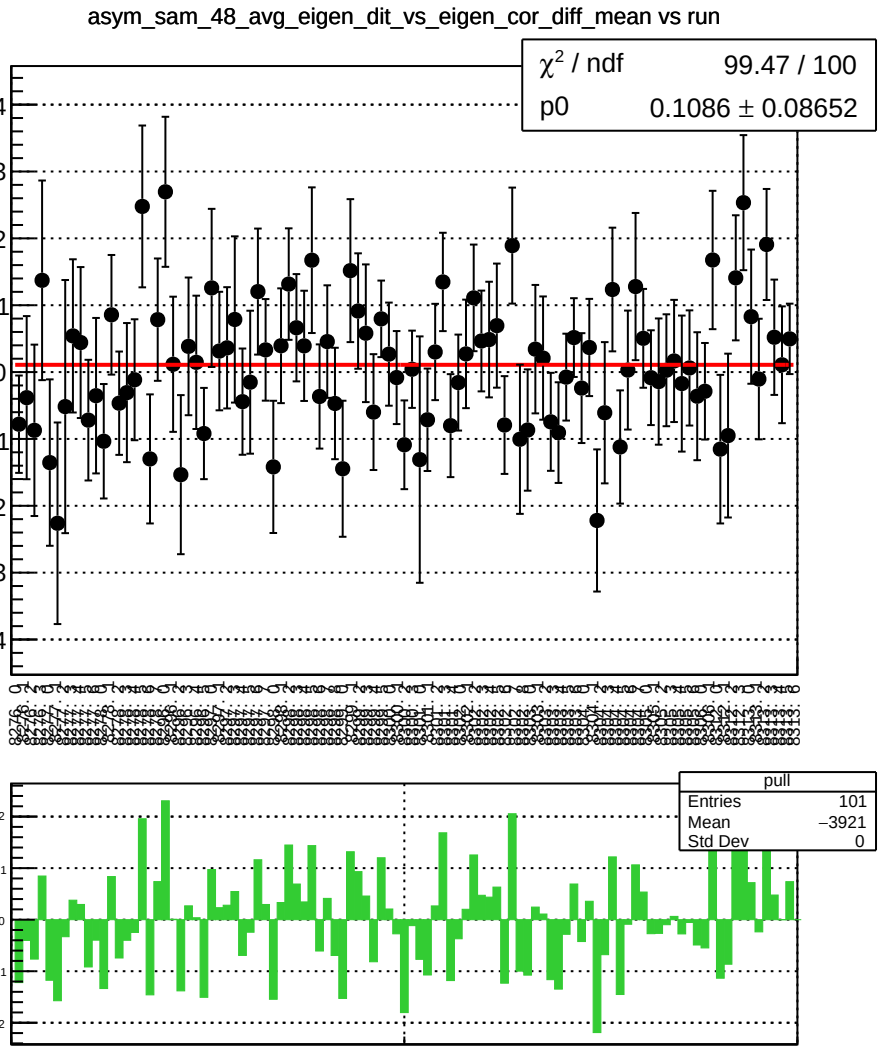

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.58e+04 / 100
p0 83.47 ± 0.06118
180
160
140
120
100
80
60

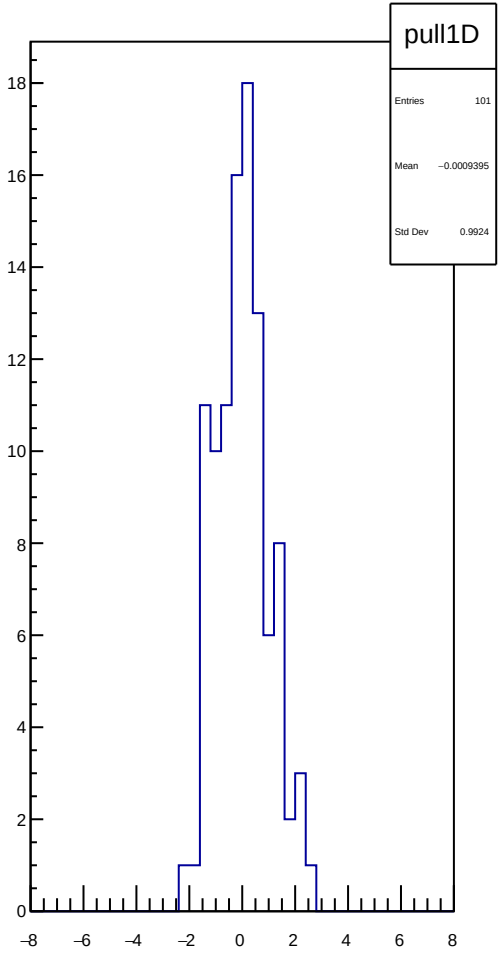

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.08 / 100
p0 1.72e−06 ± 7.897e−06
pull
Entries 101
Mean 1818
Std Dev 0
pull1D
Entries 101
Mean −0.001724
Std Dev 0.9855

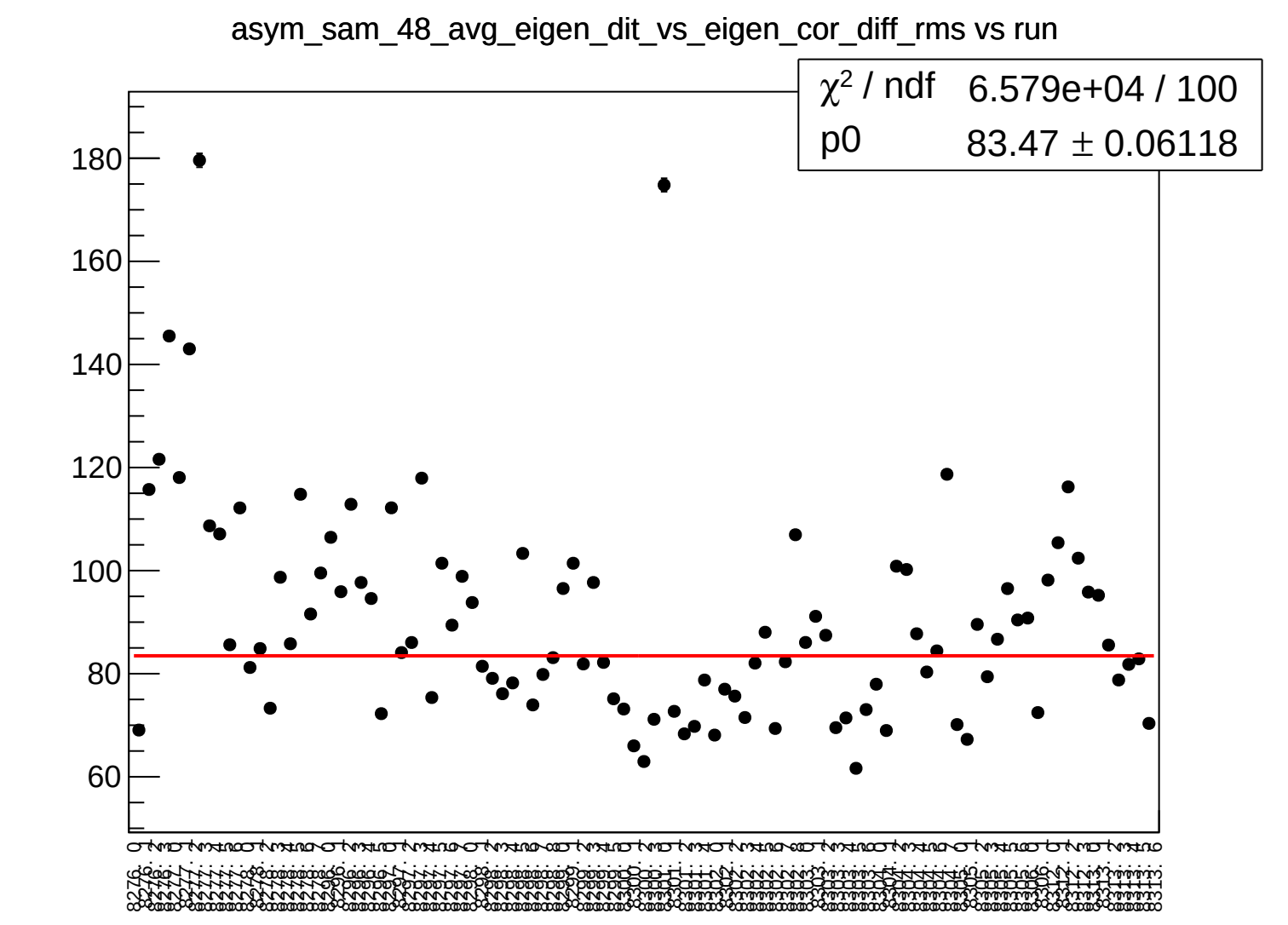

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.072e+05 / 100
p0 0.007534 ± 5.584e−06
0.01
0.009
0.008
0.007
0.006
0.005

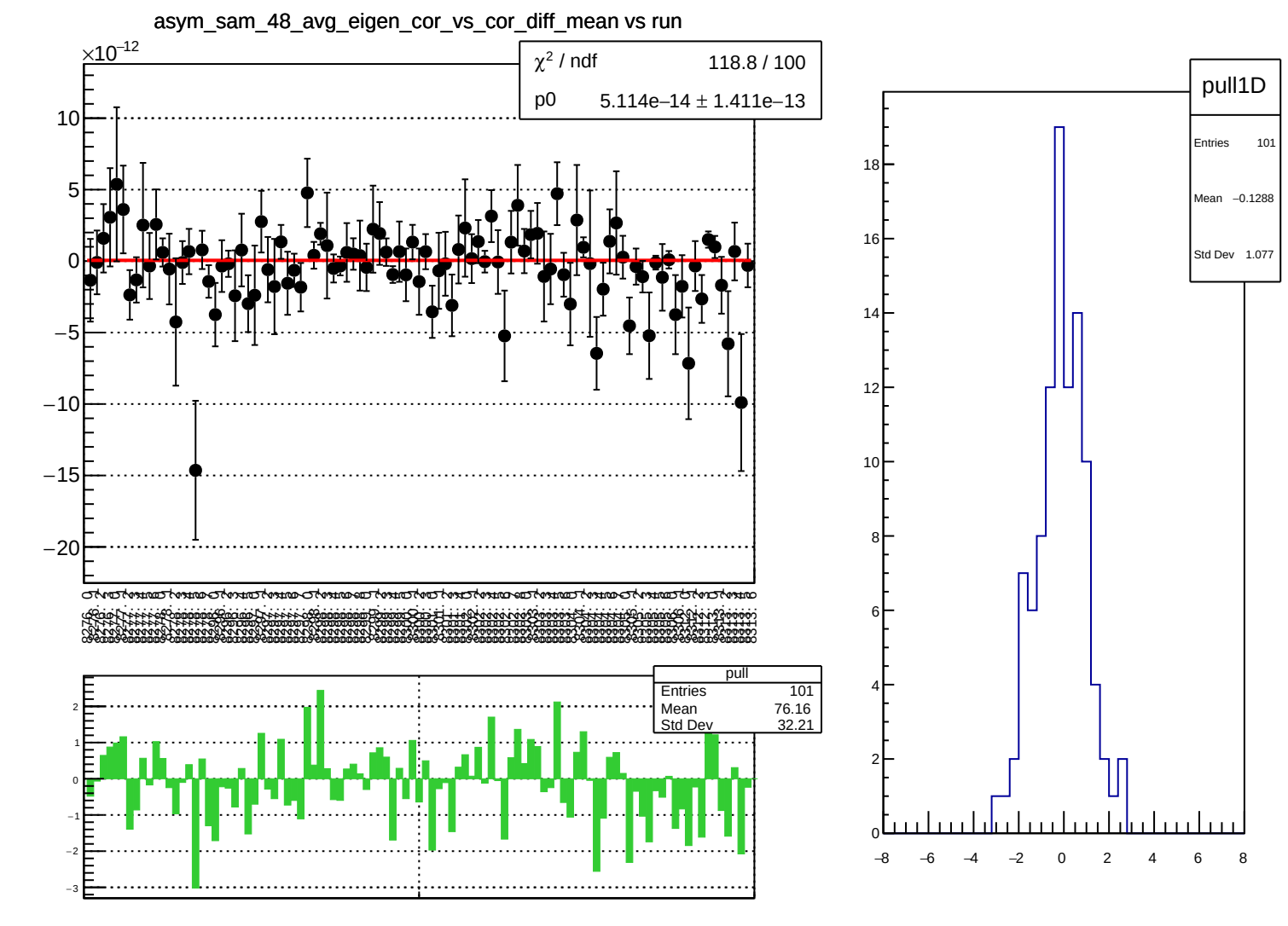

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.47 / 100
p0 0.1086 ± 0.08652
pull
Entries 101
Mean −3921
Std Dev 0
pull1D
Entries 101
Mean −0.0009395
Std Dev 0.9924

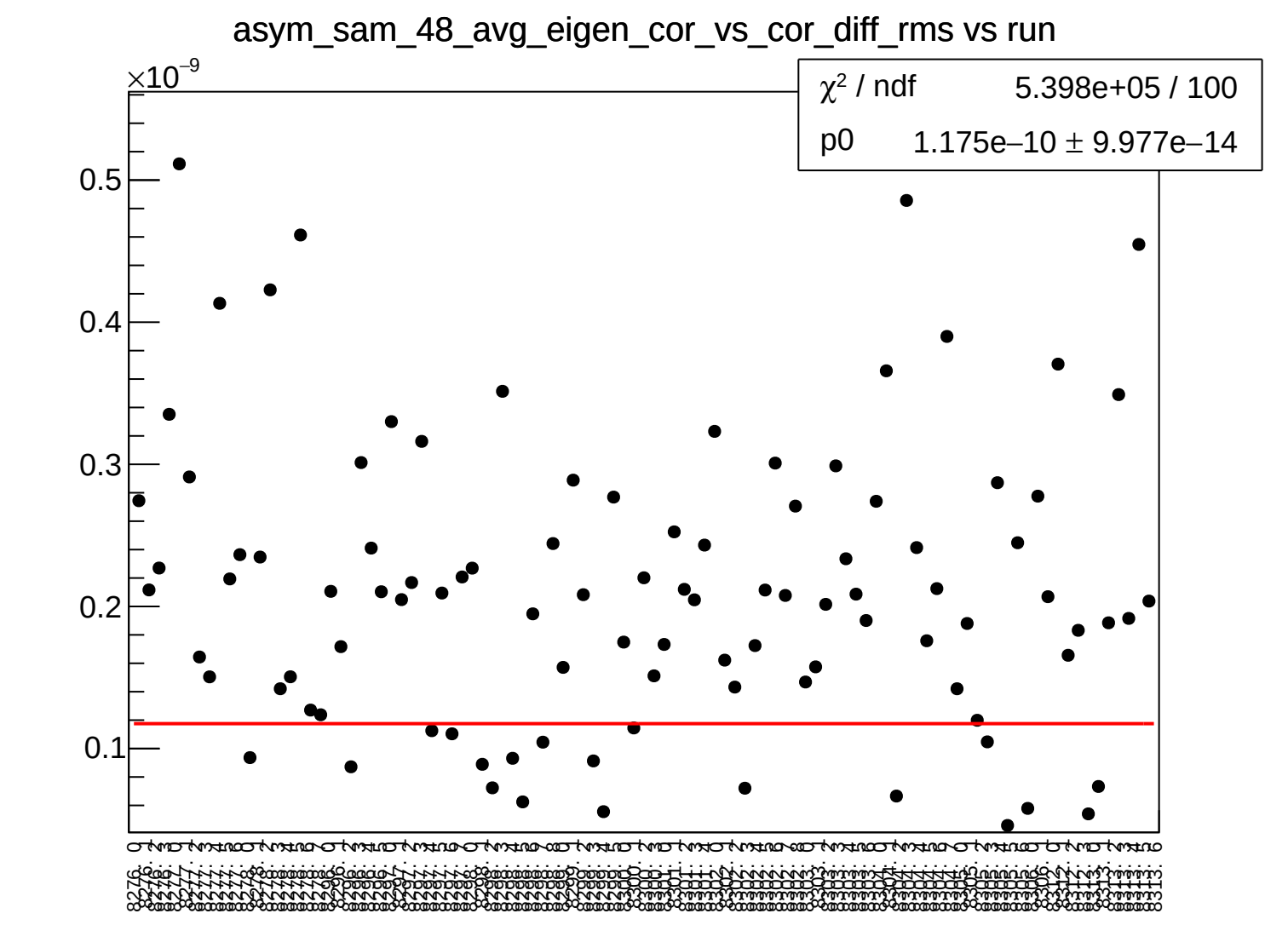

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.579e+04 / 100
p0 83.47 ± 0.06118
180
160
140
120
100
80
60

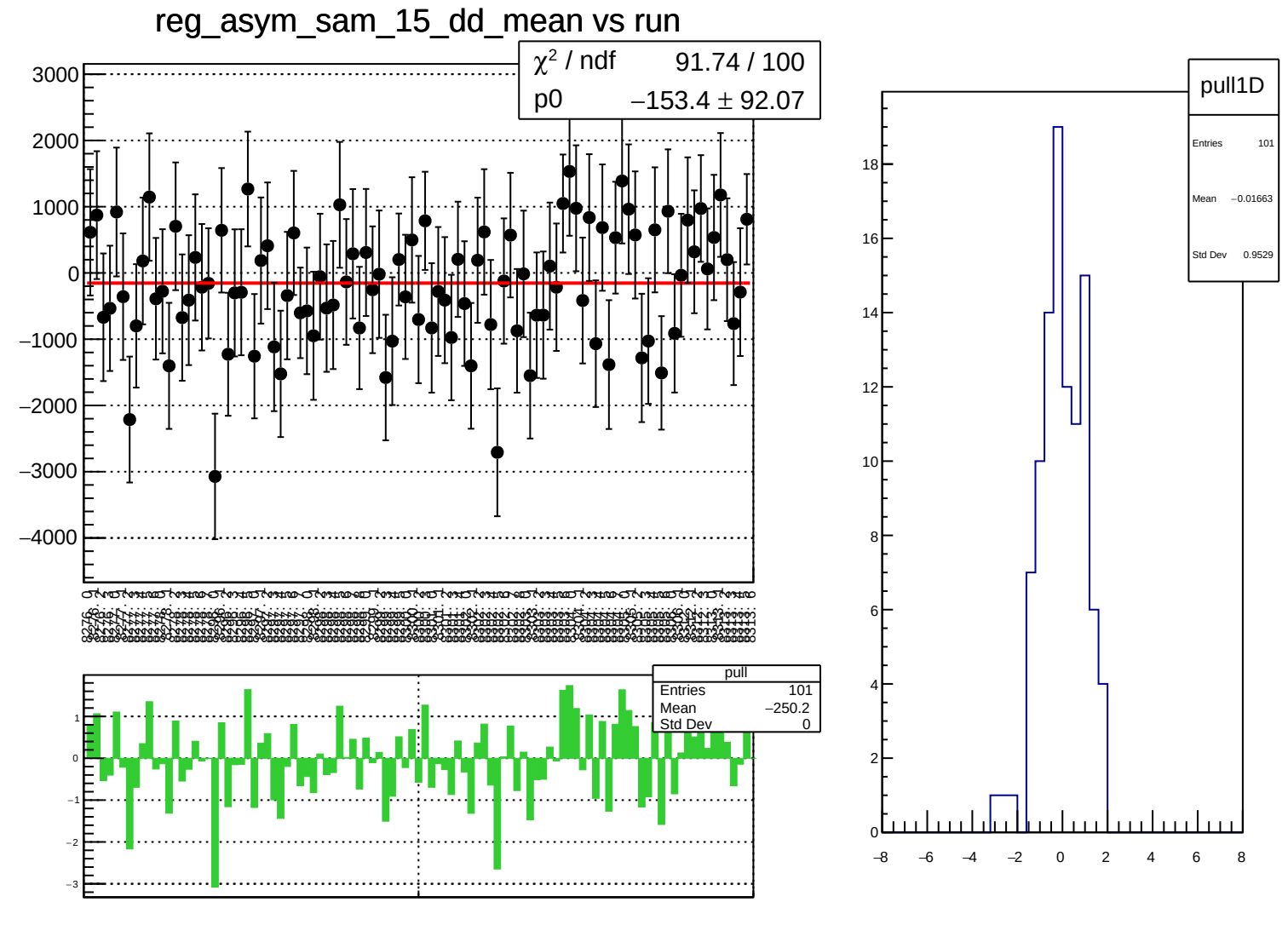

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.47 / 100
p0 0.1086 ± 0.08652
pull
Entries 101
Mean −3921
Std Dev 0

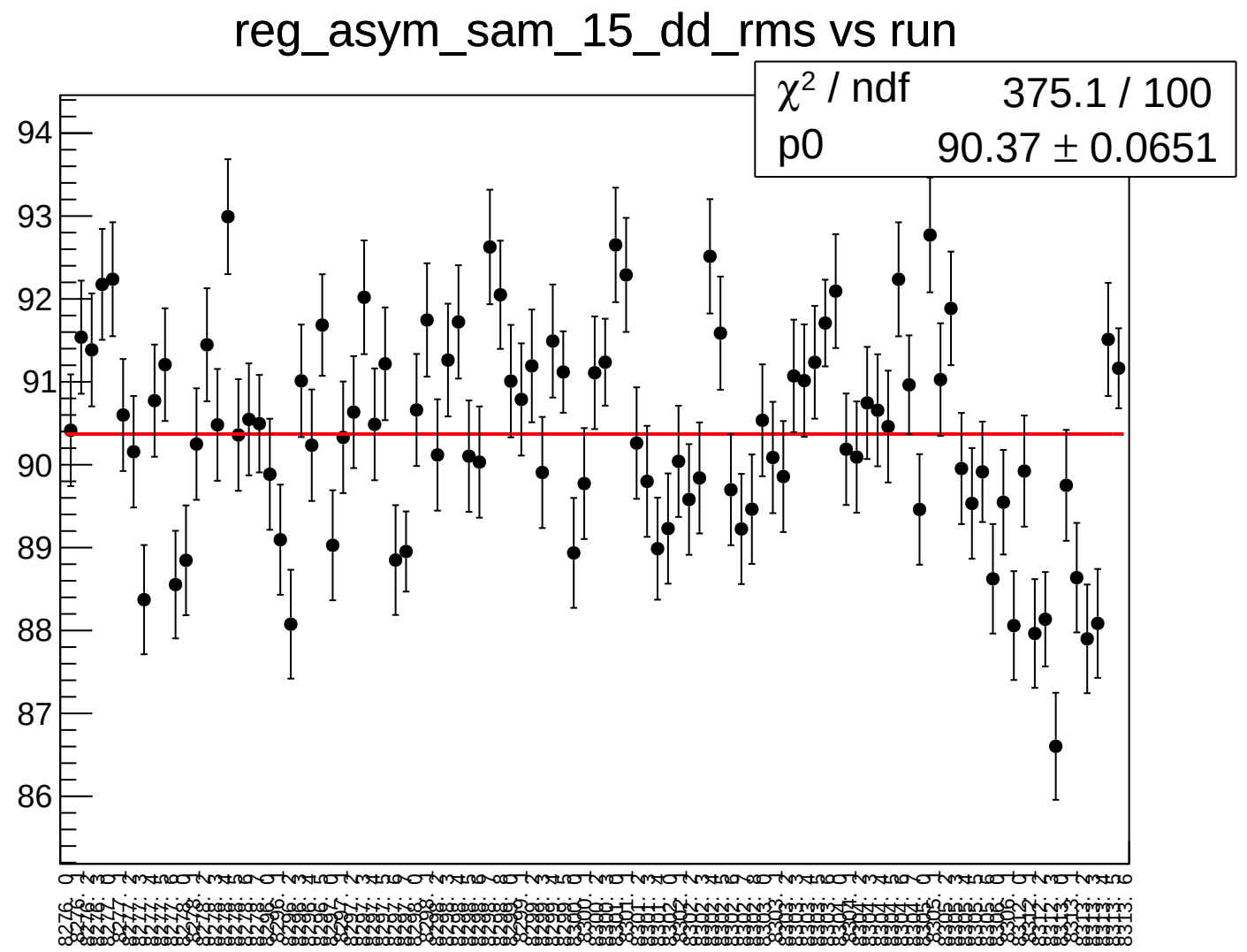

pull1D
Entries 101
Mean −0.0009395
Std Dev 0.9924

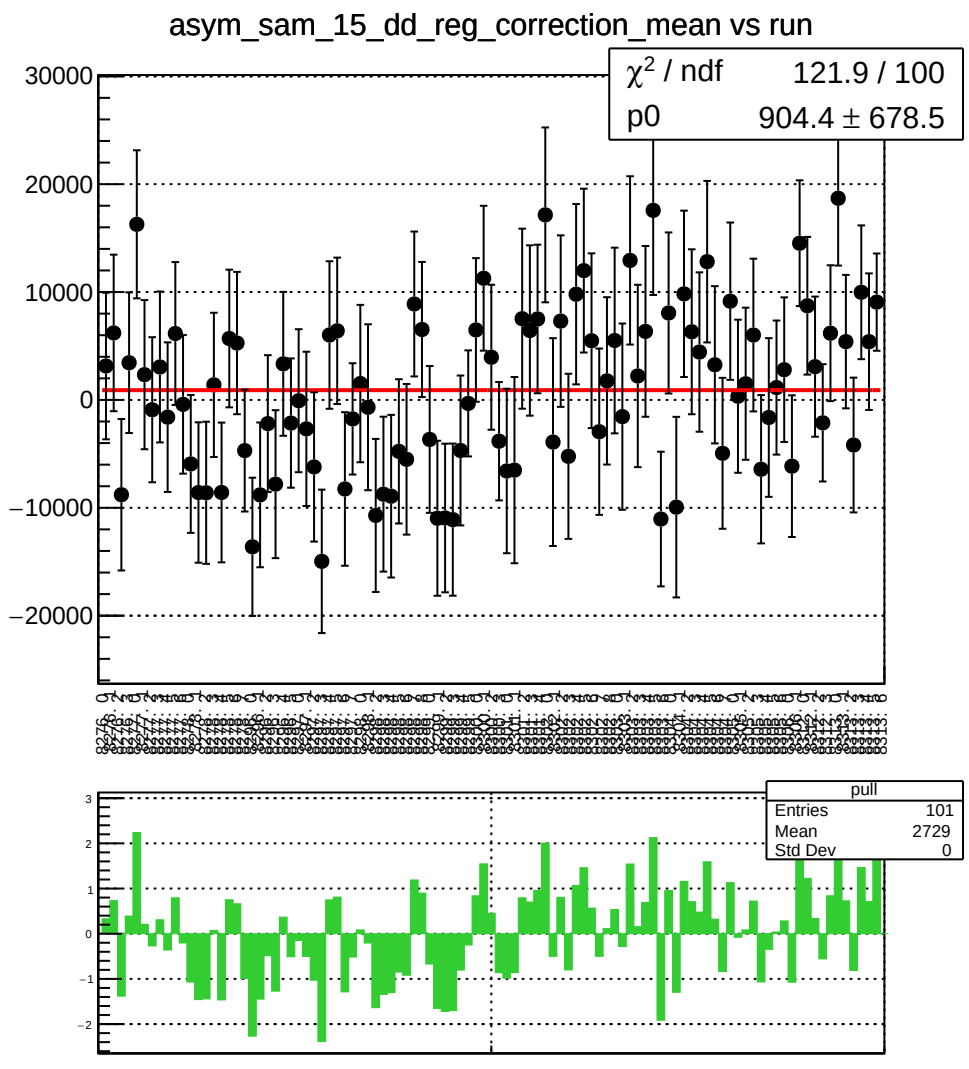

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.579e+04 / 100
p0 83.47 ± 0.06118
180
160
140
120
100
80
60

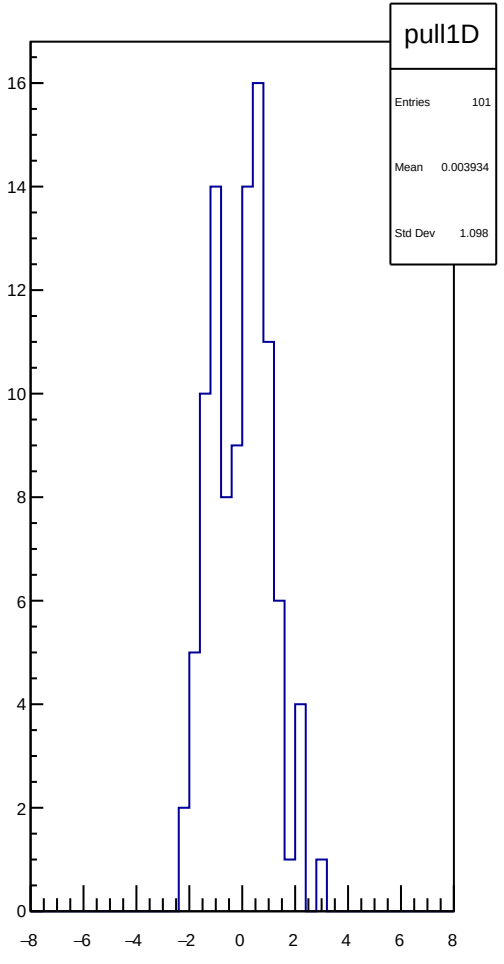

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 118.8 / 100
p0 5.114e−14 ± 1.411e−13
pull
Entries 101
Mean 76.16
Std Dev 32.21
pull1D
Entries 101
Mean −0.1288
Std Dev 1.077


asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.398e+05 / 100
p0 1.175e−10 ± 9.977e−14
0.5
0.4
0.3
0.2
0.1


reg_asym_sam_15_dd_mean vs run
χ² / ndf 91.74 / 100
p0 −153.4 ± 92.07
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 101
Mean −250.2
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 101
Mean −0.01663
Std Dev 0.9529
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 375.1 / 100
p0 90.37 ± 0.0651
94
93
92
91
90
89
88
87
86


asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 121.9 / 100
p0 904.4 ± 678.5
30000
20000
10000
0
−10000
−20000
pull
Entries 101
Mean 2729
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 101
Mean 0.003934
Std Dev 1.098
16
14
12
10
8
6
4
2
0
−8
−6
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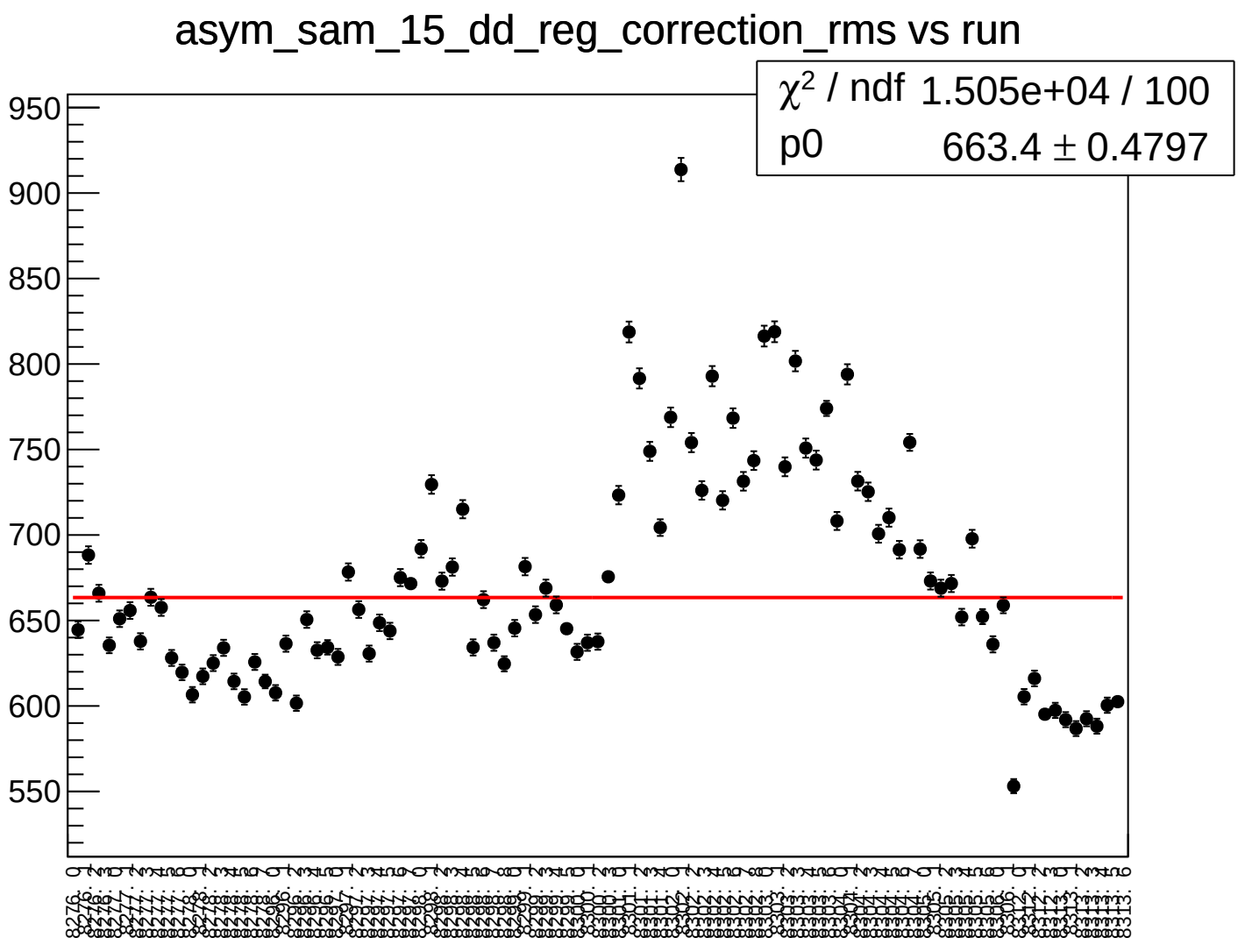
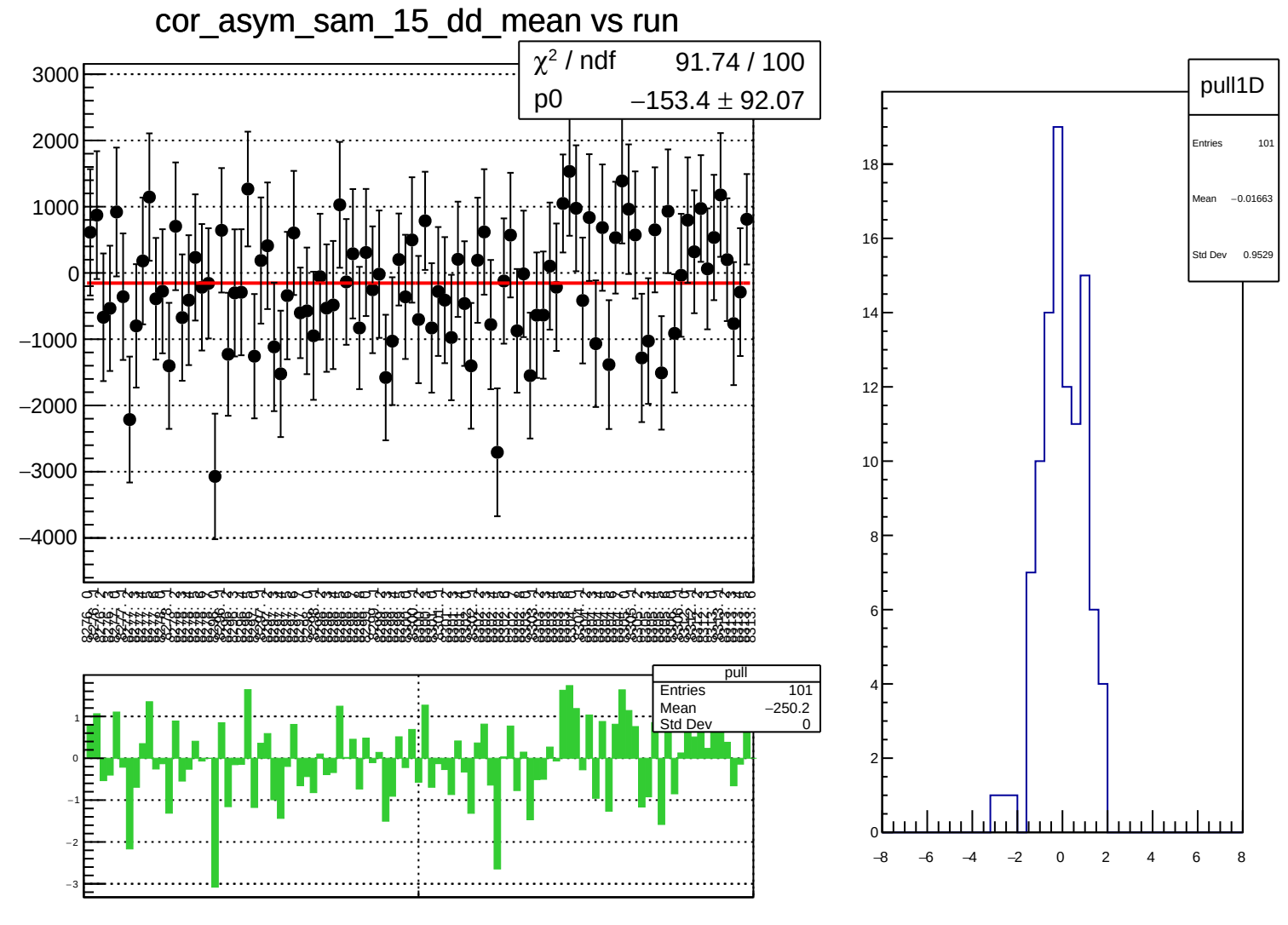
2
4
6
8


asym_sam_15_dd_reg_correction_rms vs run
χ² / ndf 1.505e+04 / 100
p0 663.4 ± 0.4797
950
900
850
800
750
700
650
600
550


cor_asym_sam_15_dd_mean vs run
χ² / ndf 91.74 / 100
p0 −153.4 ± 92.07
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 101
Mean −250.2
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 101
Mean −0.01663
Std Dev 0.9529
18
16
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10
8
6
4
2
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−4
−2
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2
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6
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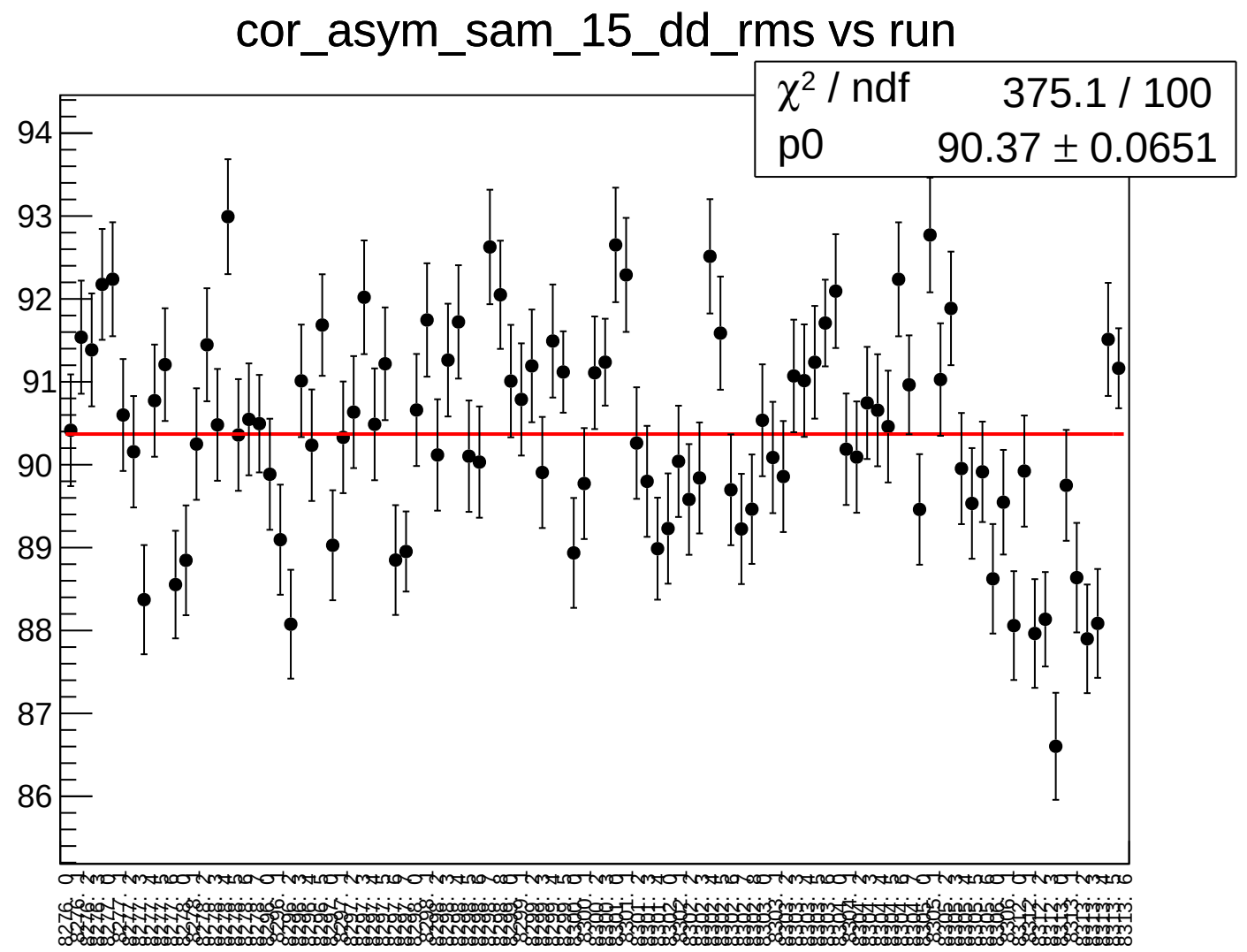
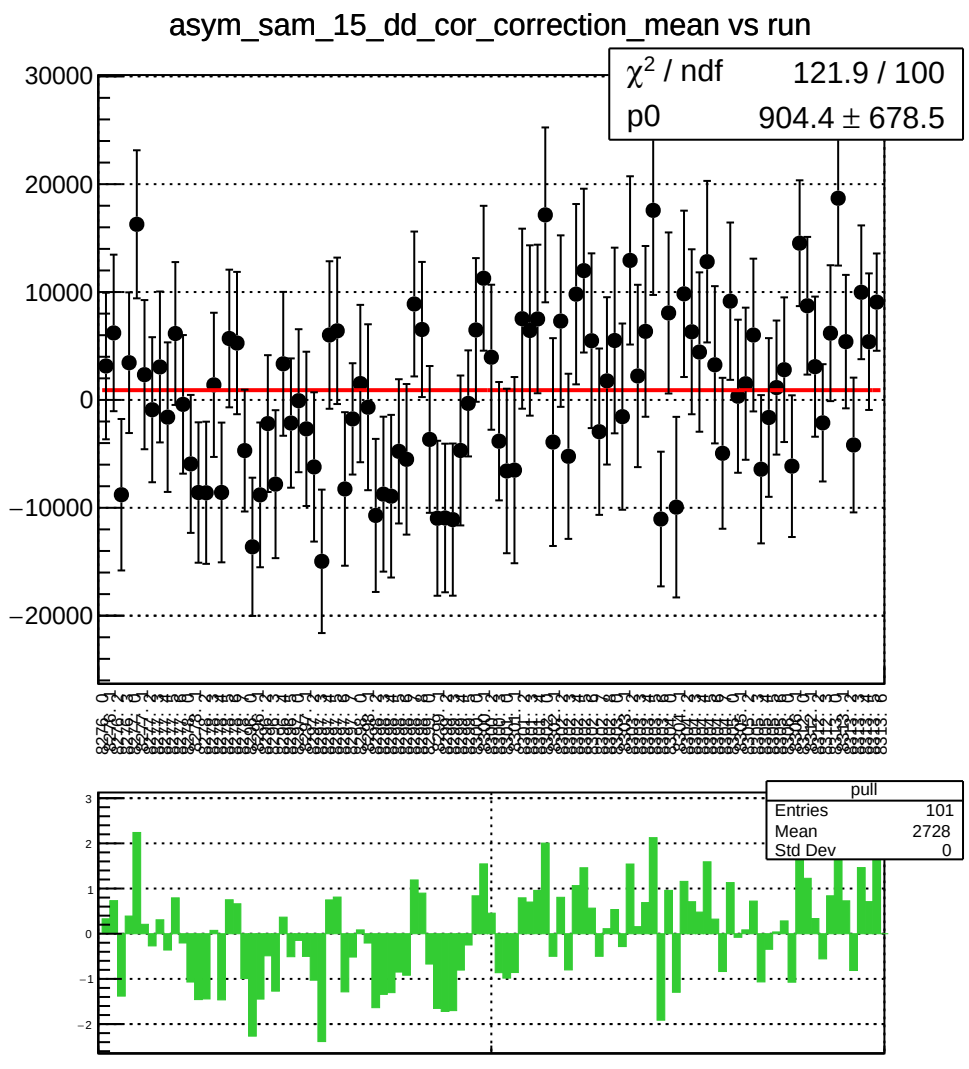
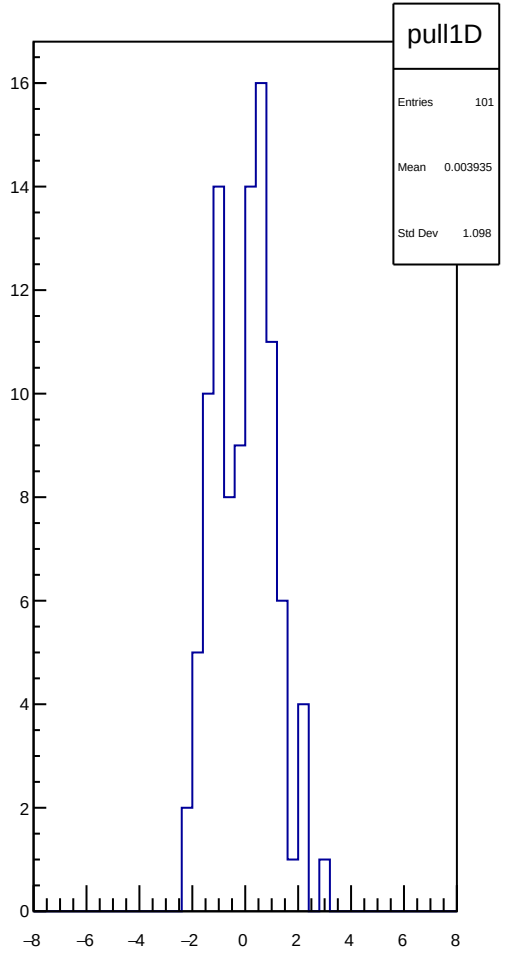

cor_asym_sam_15_dd_rms vs run
χ² / ndf 375.1 / 100
p0 90.37 ± 0.0651
94
93
92
91
90
89
88
87
86


asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 121.9 / 100
p0 904.4 ± 678.5
30000
20000
10000
0
−10000
−20000
pull
Entries 101
Mean 2728
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 101
Mean 0.003935
Std Dev 1.098
16
14
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10
8
6
4
2
0
−8
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−4
−2
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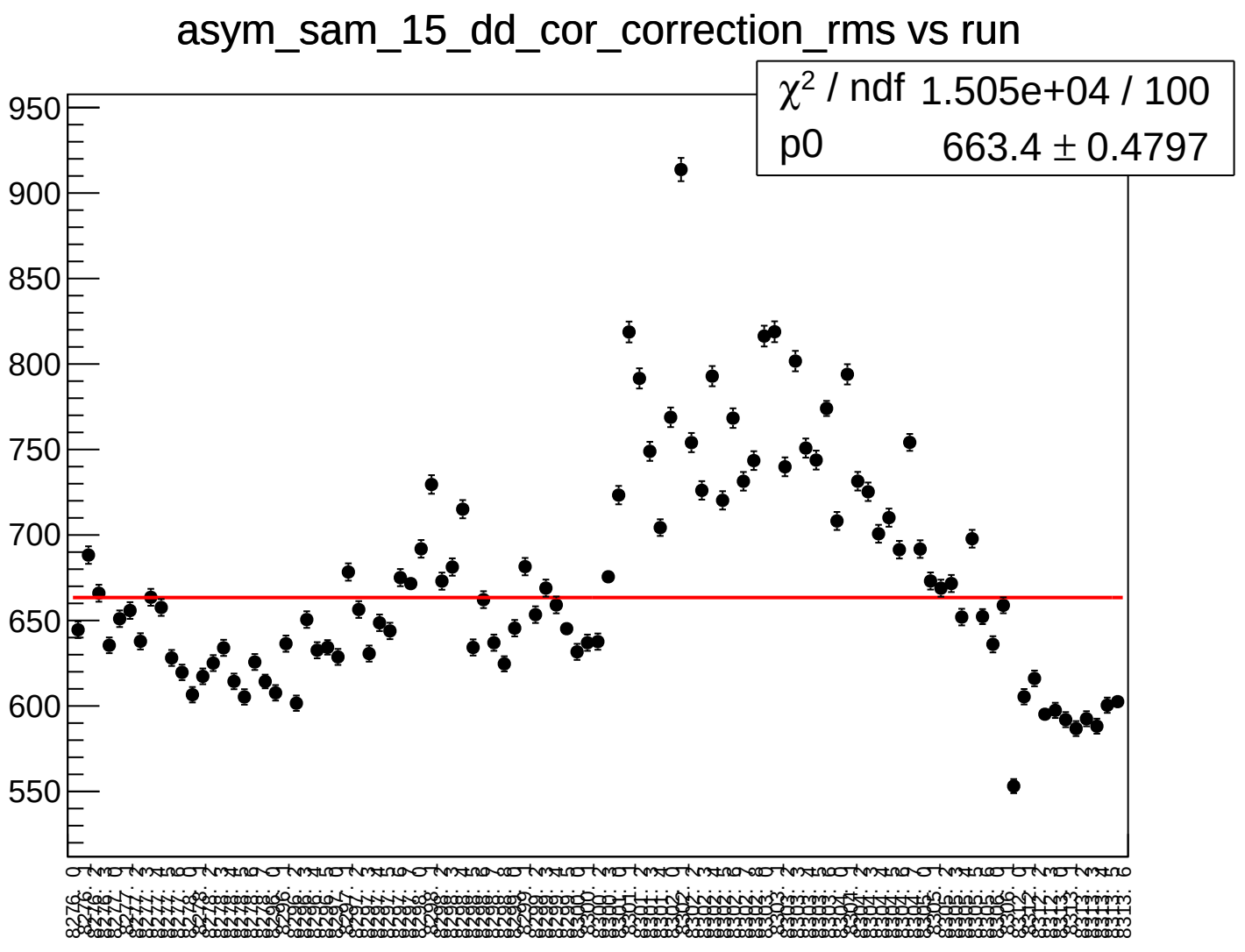
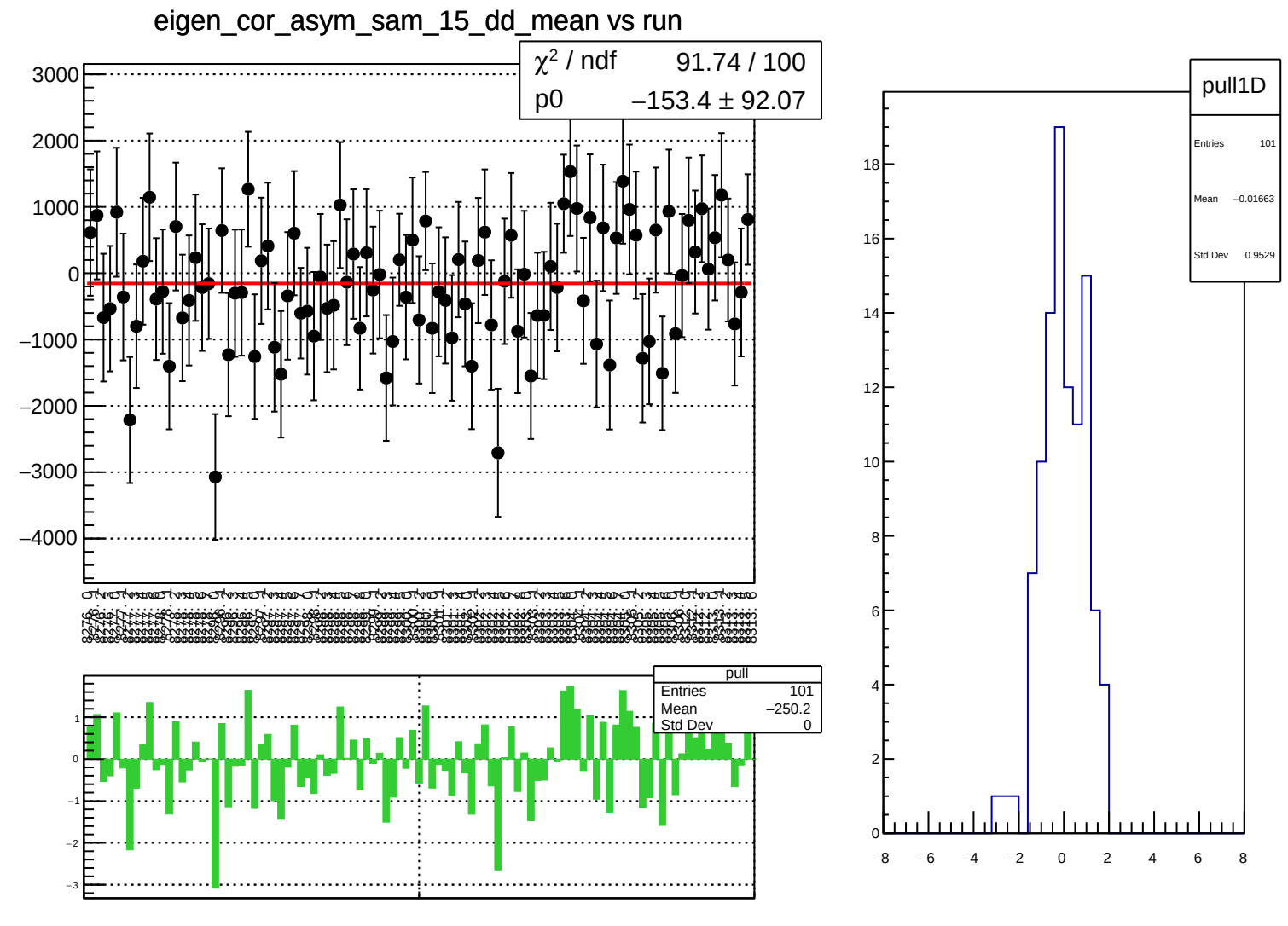
2
4
6
8


asym_sam_15_dd_cor_correction_rms vs run
χ² / ndf 1.505e+04 / 100
p0 663.4 ± 0.4797
950
900
850
800
750
700
650
600
550


eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 91.74 / 100
p0 −153.4 ± 92.07
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 101
Mean −250.2
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 101
Mean −0.01663
Std Dev 0.9529
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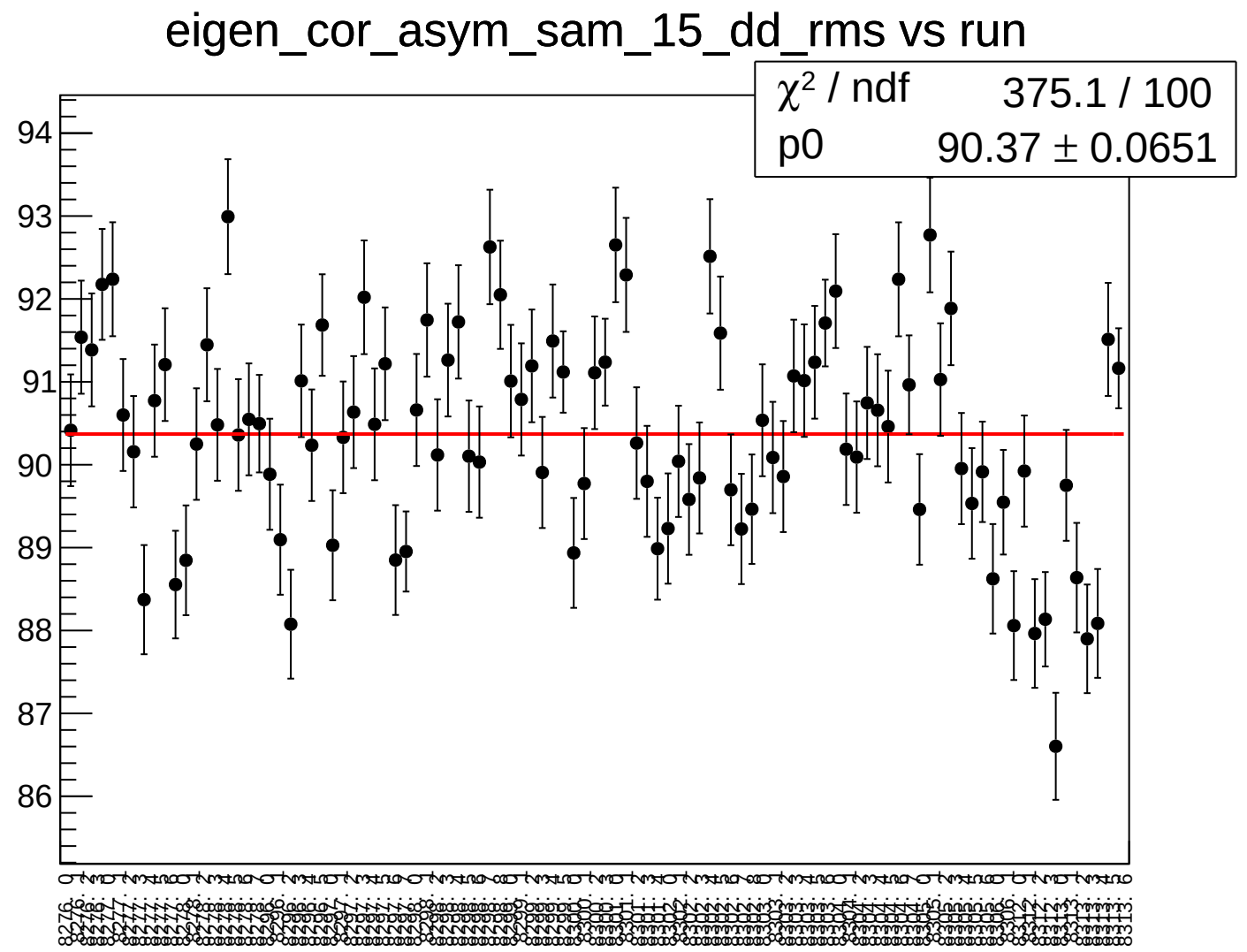
eigen_cor_asym_sam_15_dd_rms vs run
χ² / ndf 375.1 / 100
p0 90.37 ± 0.0651
94
93
92
91
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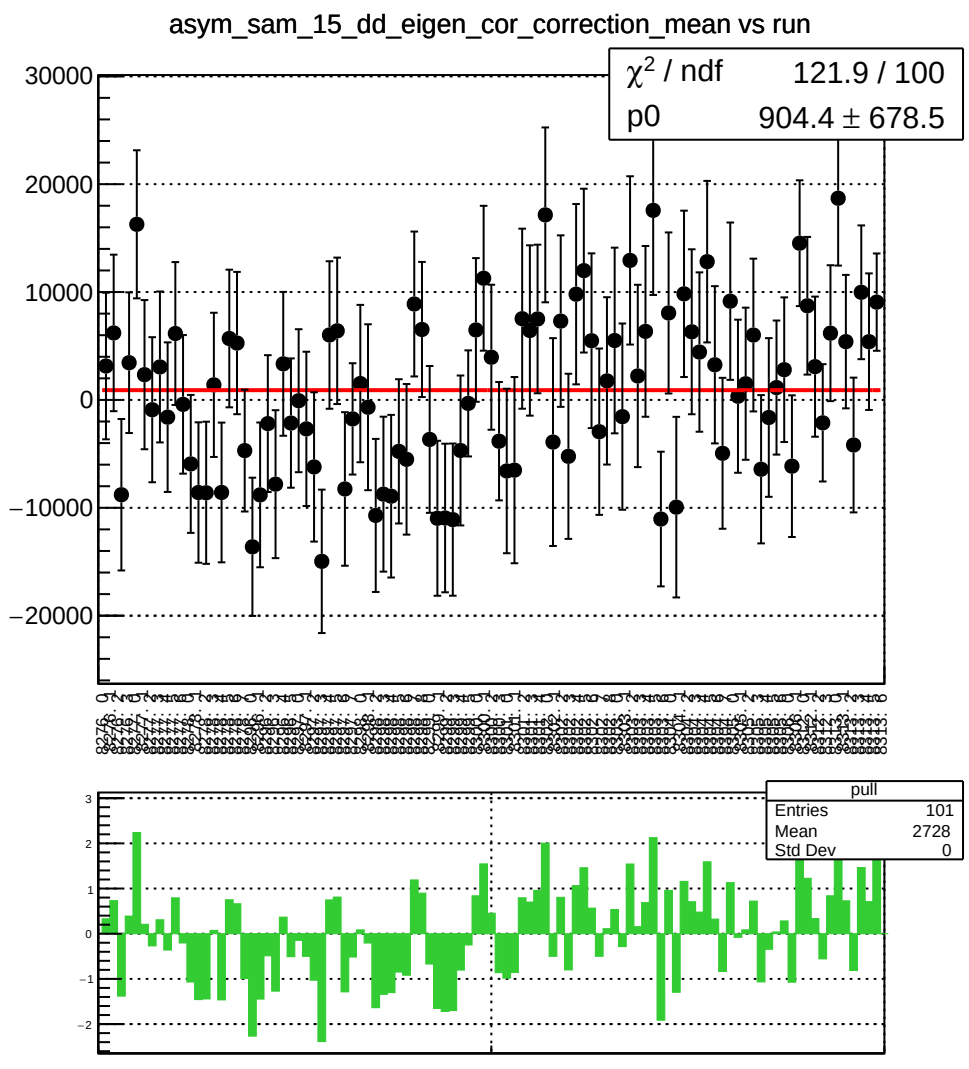
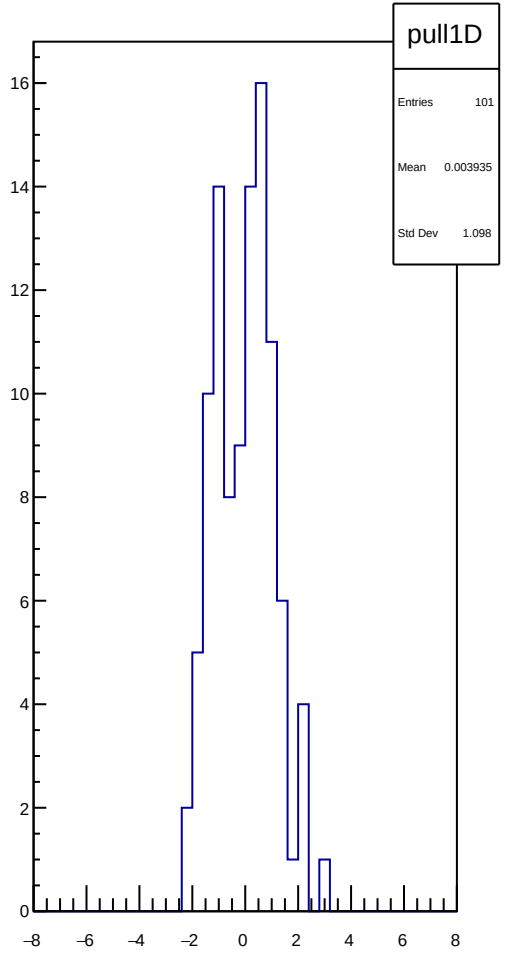
89
88
87
86


asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 121.9 / 100
p0 904.4 ± 678.5
30000
20000
10000
0
−10000
−20000
pull
Entries 101
Mean 2728
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 101
Mean 0.003935
Std Dev 1.098
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14
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10
8
6
4
2
0
−8
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−4
−2
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2
4
6
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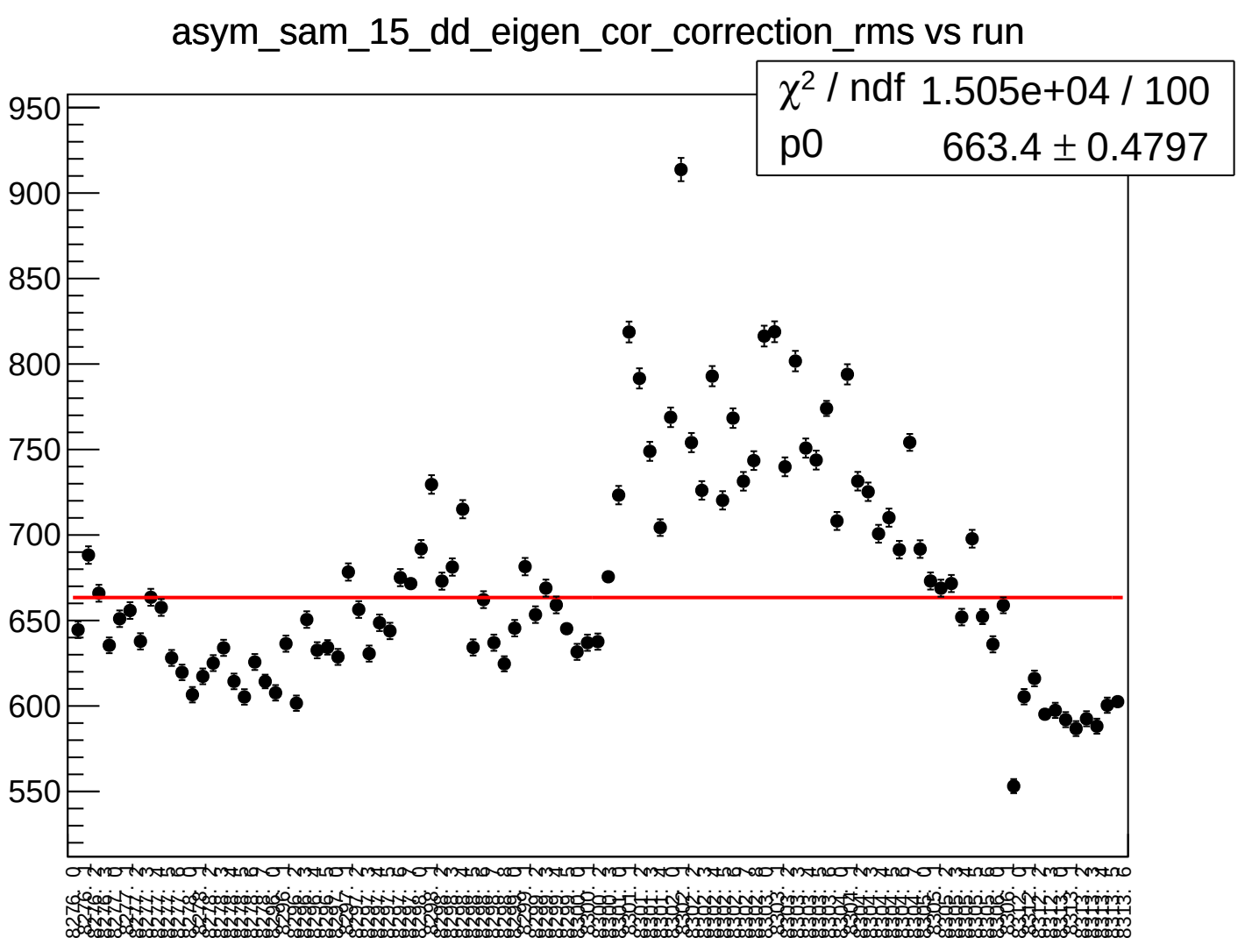
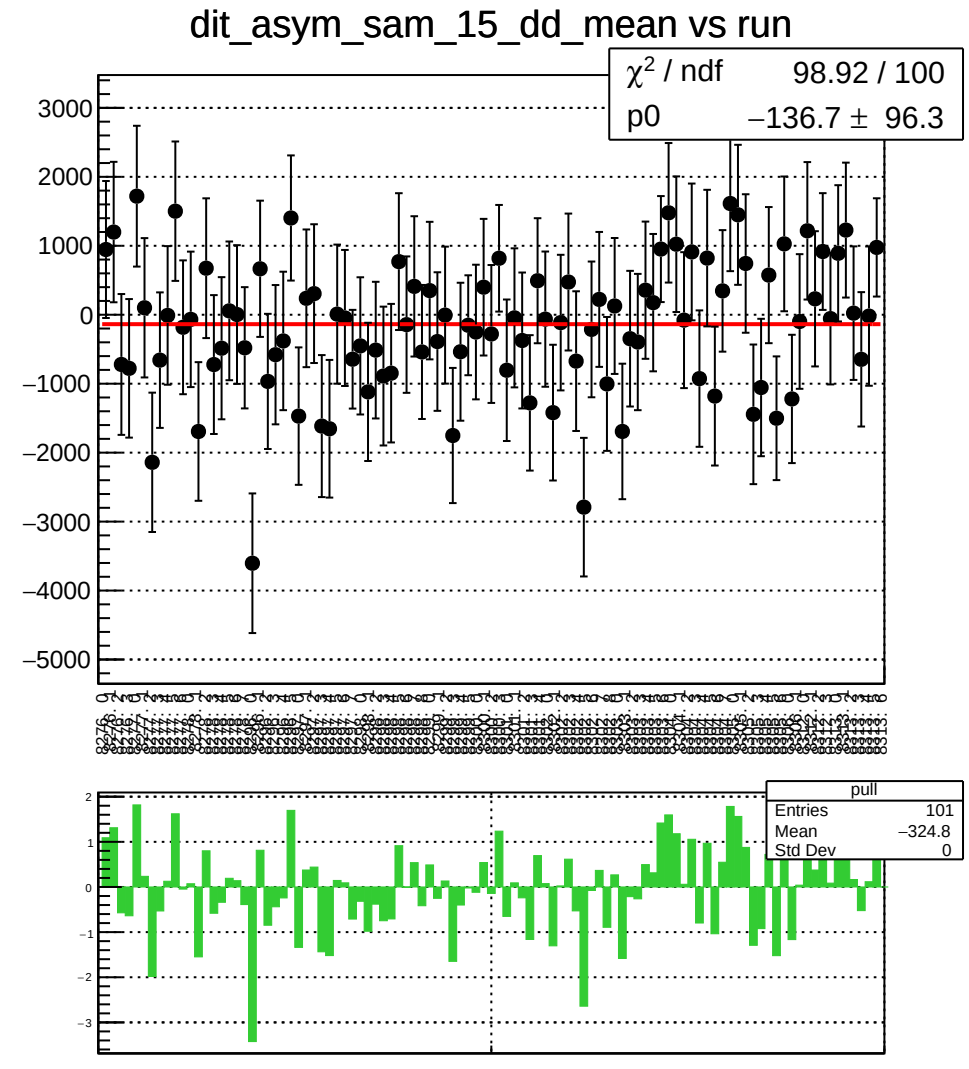
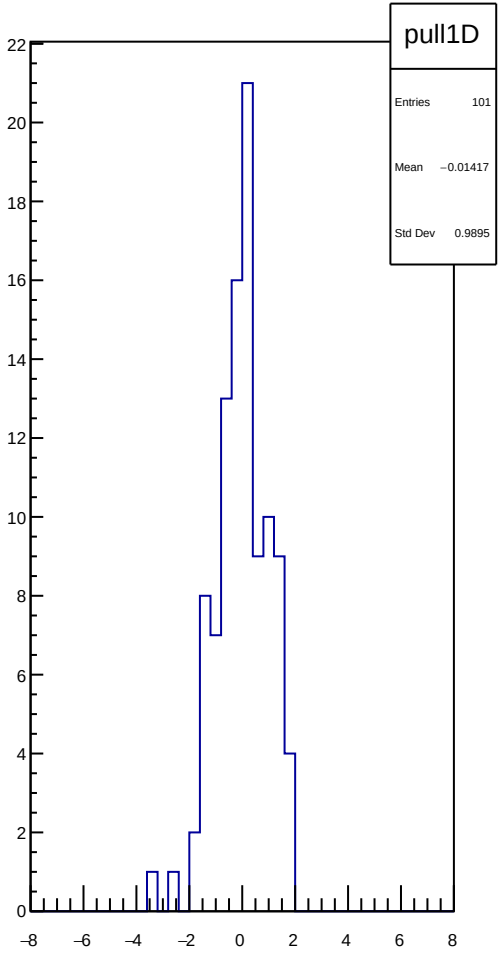
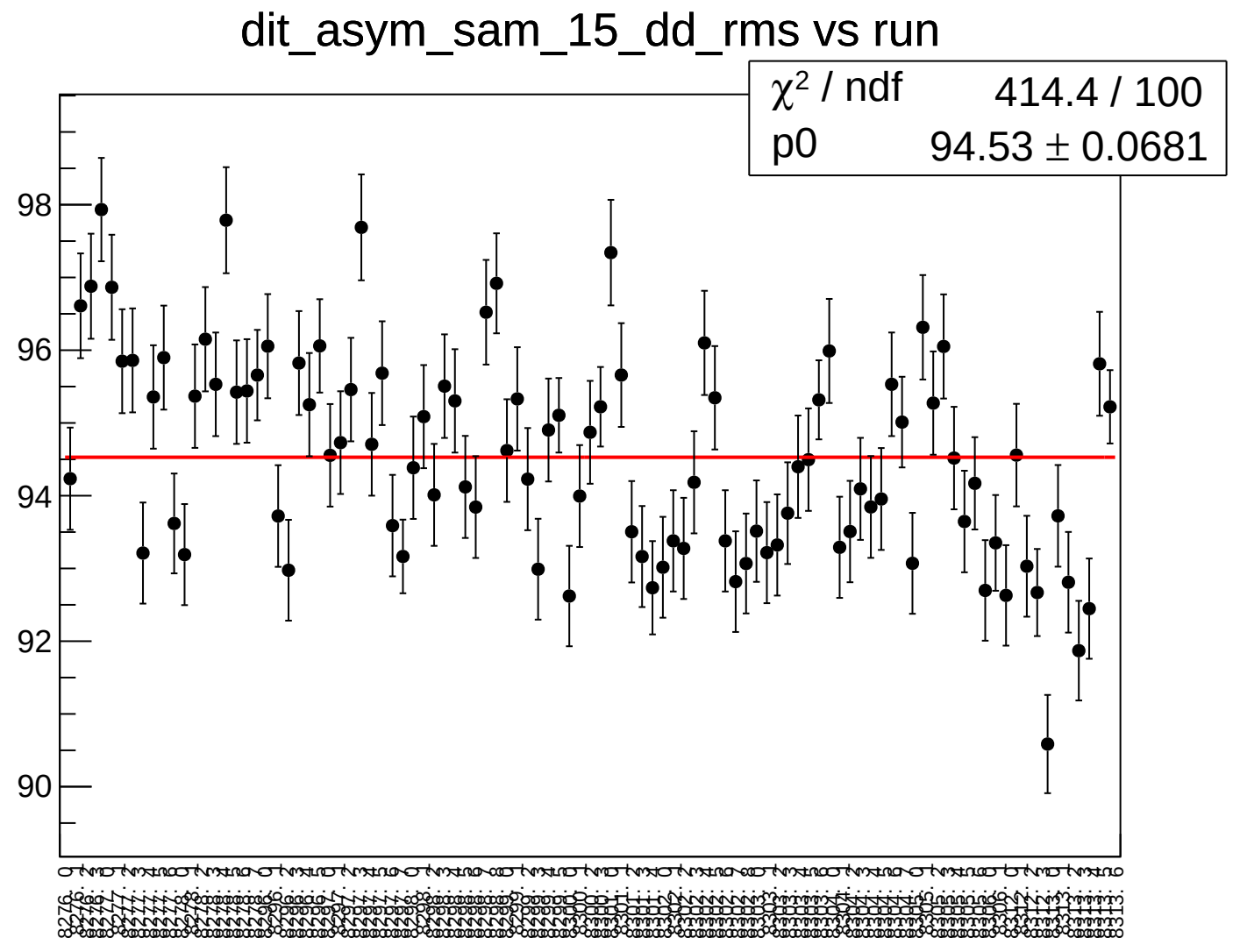
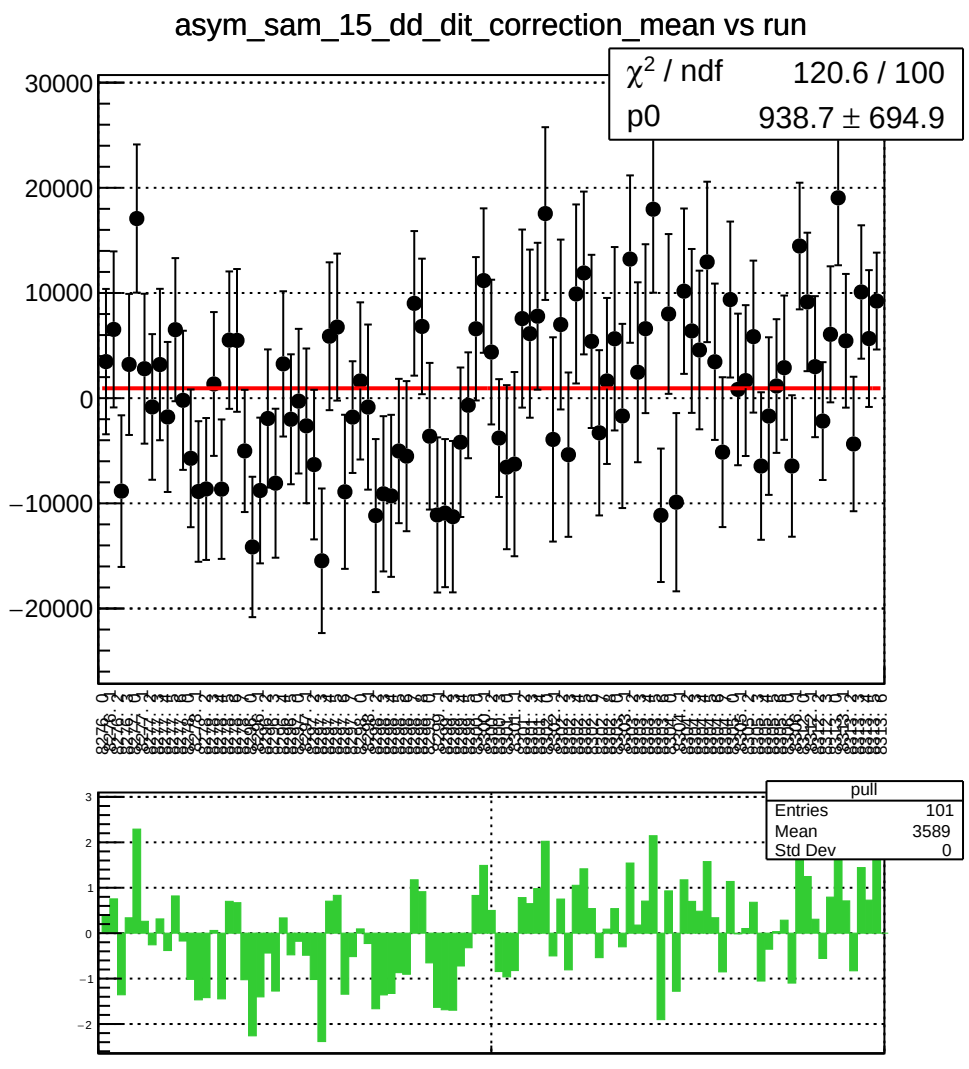
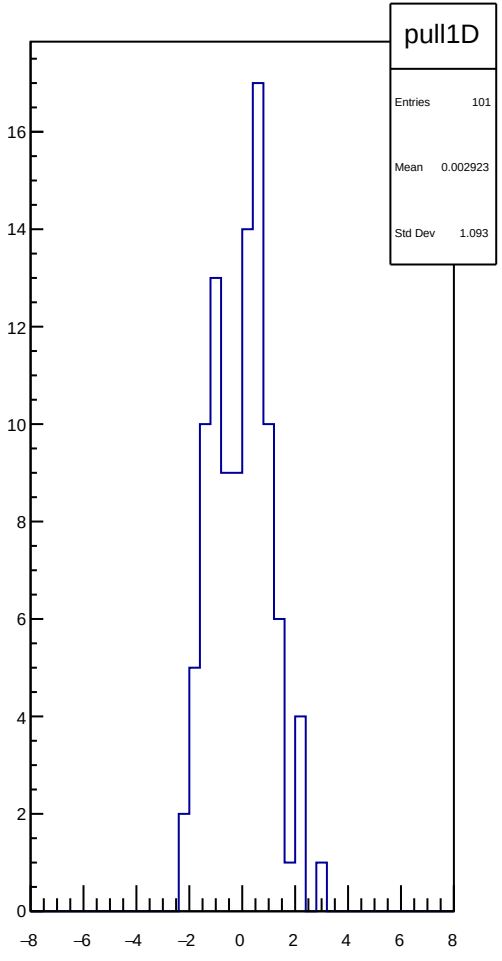

asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.505e+04 / 100
p0 663.4 ± 0.4797
950
900
850
800
750
700
650
600
550


dit_asym_sam_15_dd_mean vs run
χ² / ndf 98.92 / 100
p0 −136.7 ± 96.3
pull
Entries 101
Mean −324.8
Std Dev 0


pull1D
Entries 101
Mean −0.01417
Std Dev 0.9895


dit_asym_sam_15_dd_rms vs run
χ² / ndf 414.4 / 100
p0 94.53 ± 0.0681
98
96
94
92
90


asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 120.6 / 100
p0 938.7 ± 694.9
30000
20000
10000
0
−10000
−20000
pull
Entries 101
Mean 3589
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 101
Mean 0.002923
Std Dev 1.093
16
14
12
10
8
6
4
2
0
−8
−6
−4
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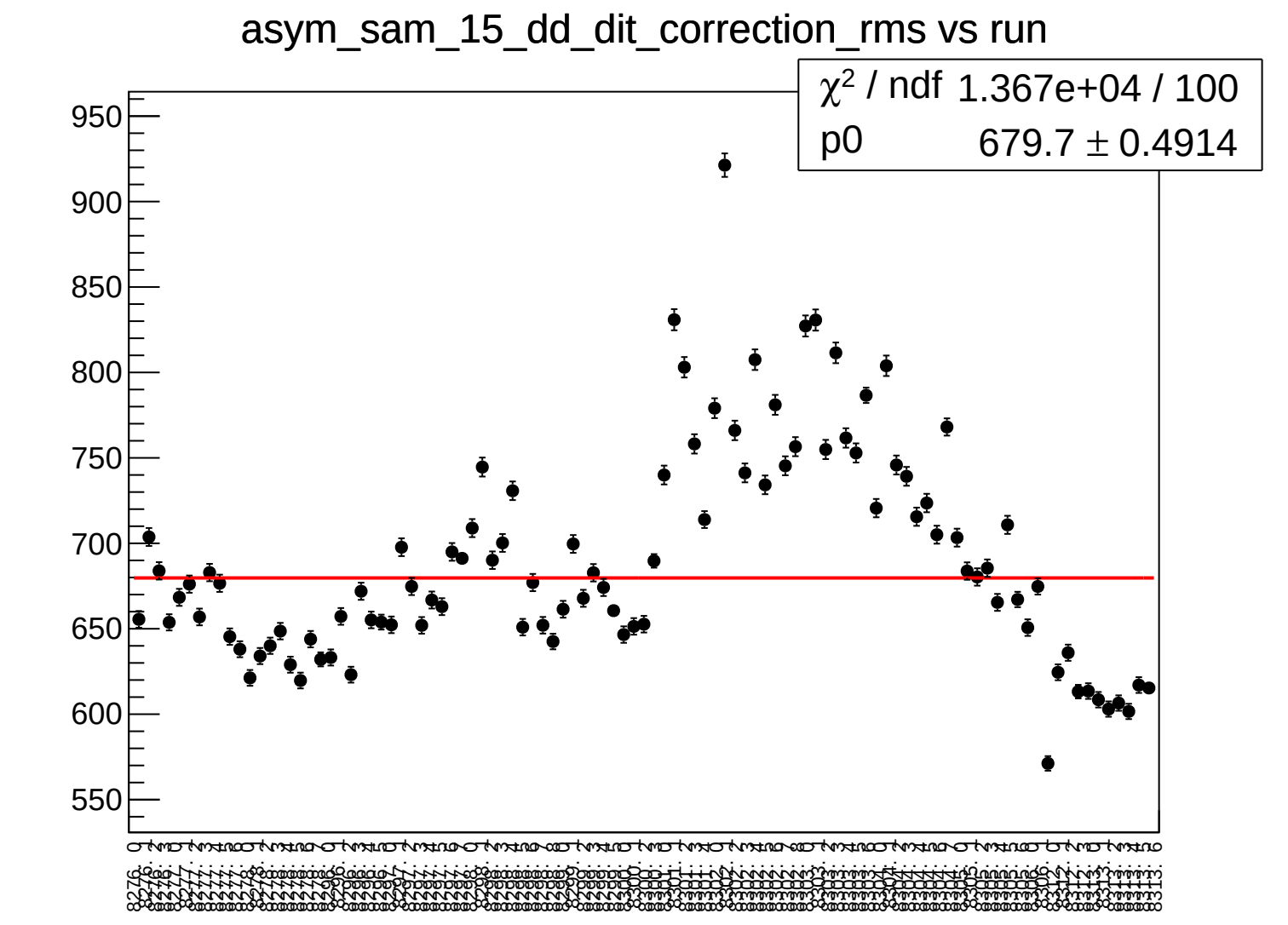
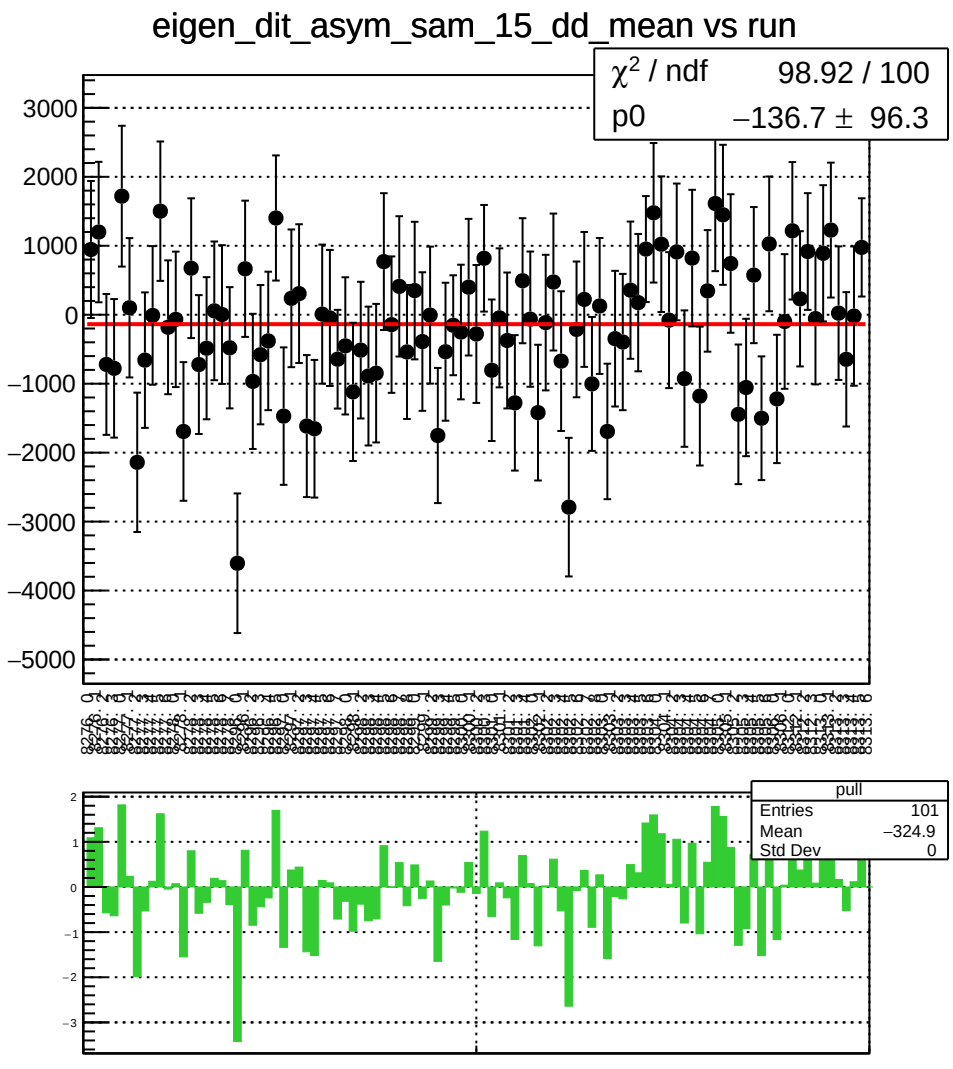
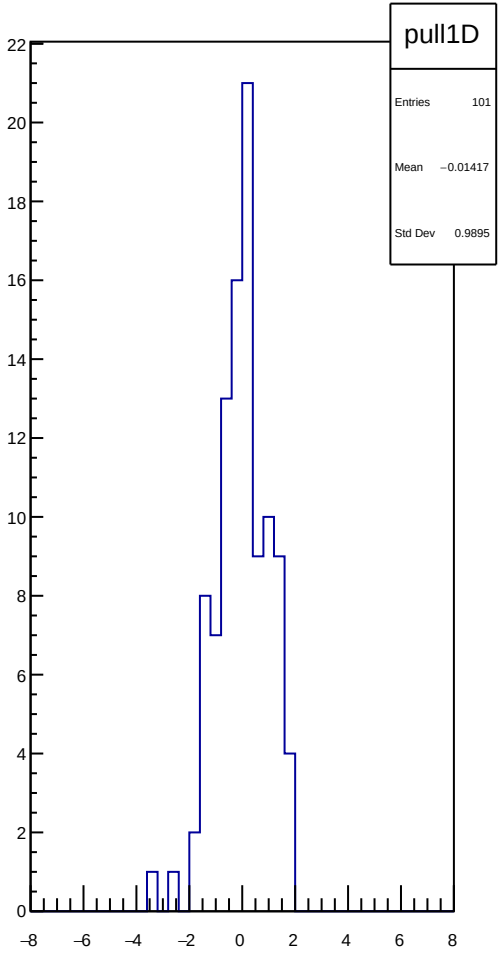
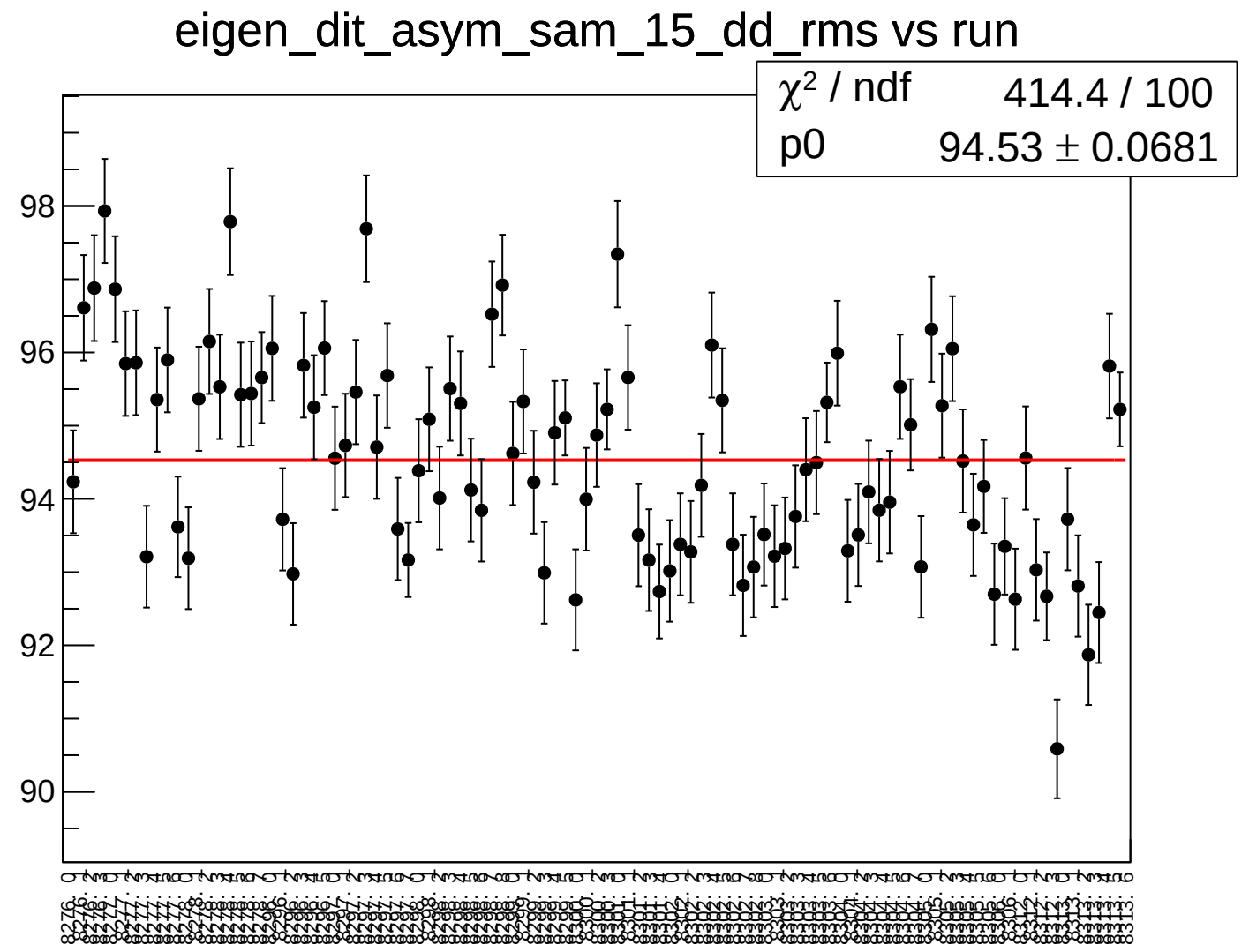
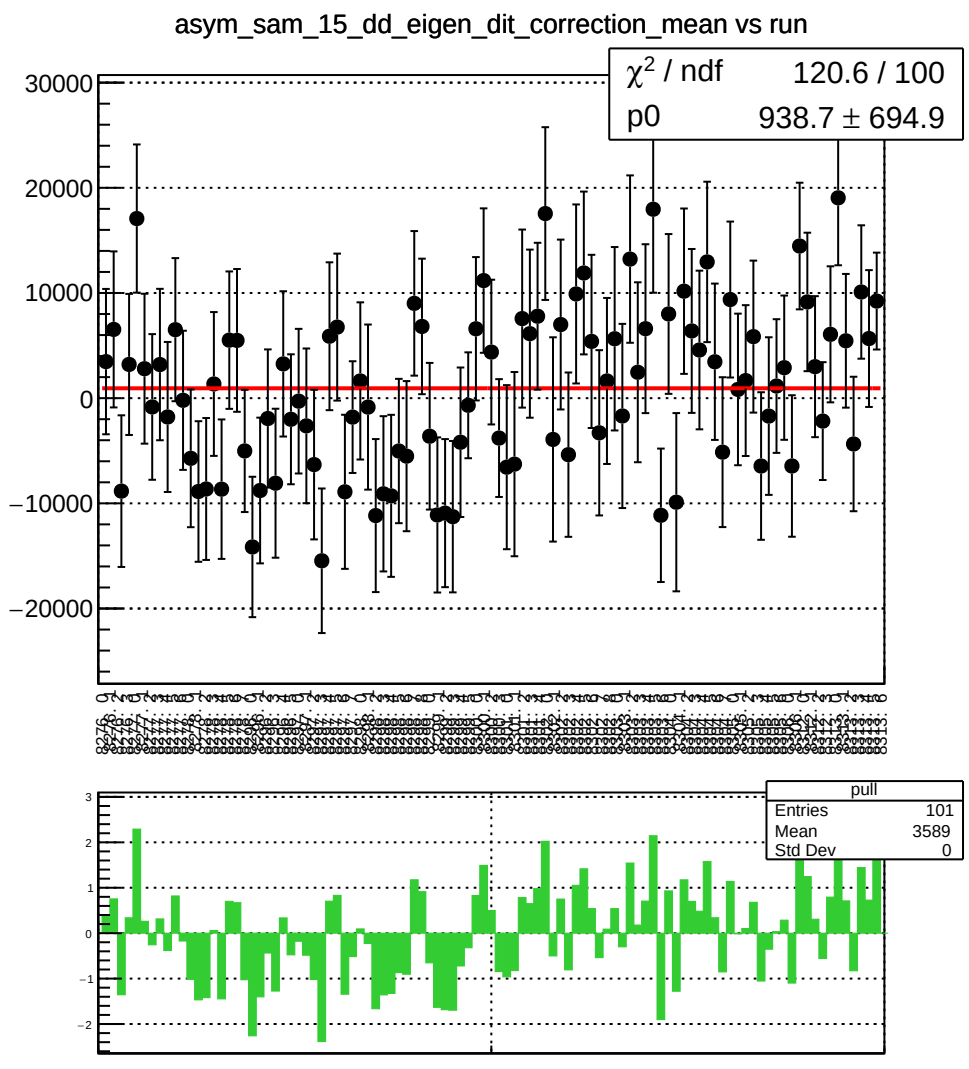
0
2
4
6
8

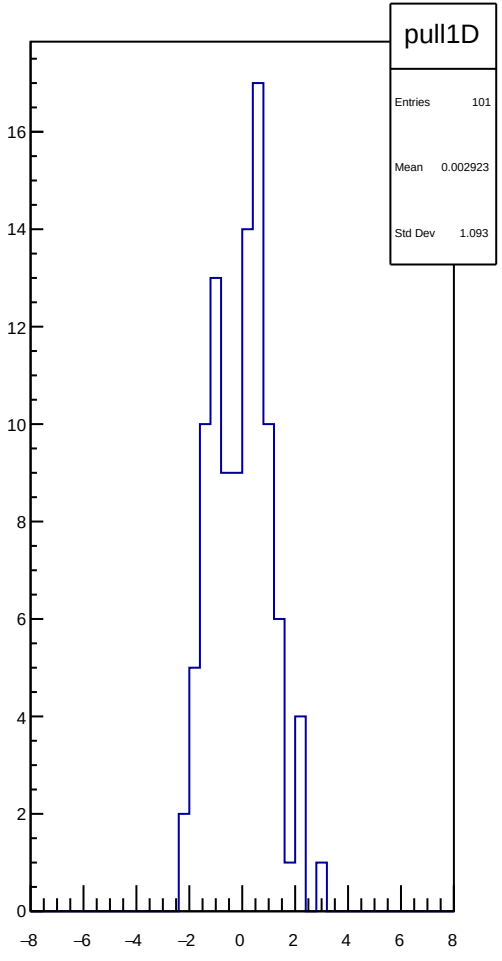

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 1.367e+04 / 100
p0 679.7 ± 0.4914
950
900
850
800
750
700
650
600
550

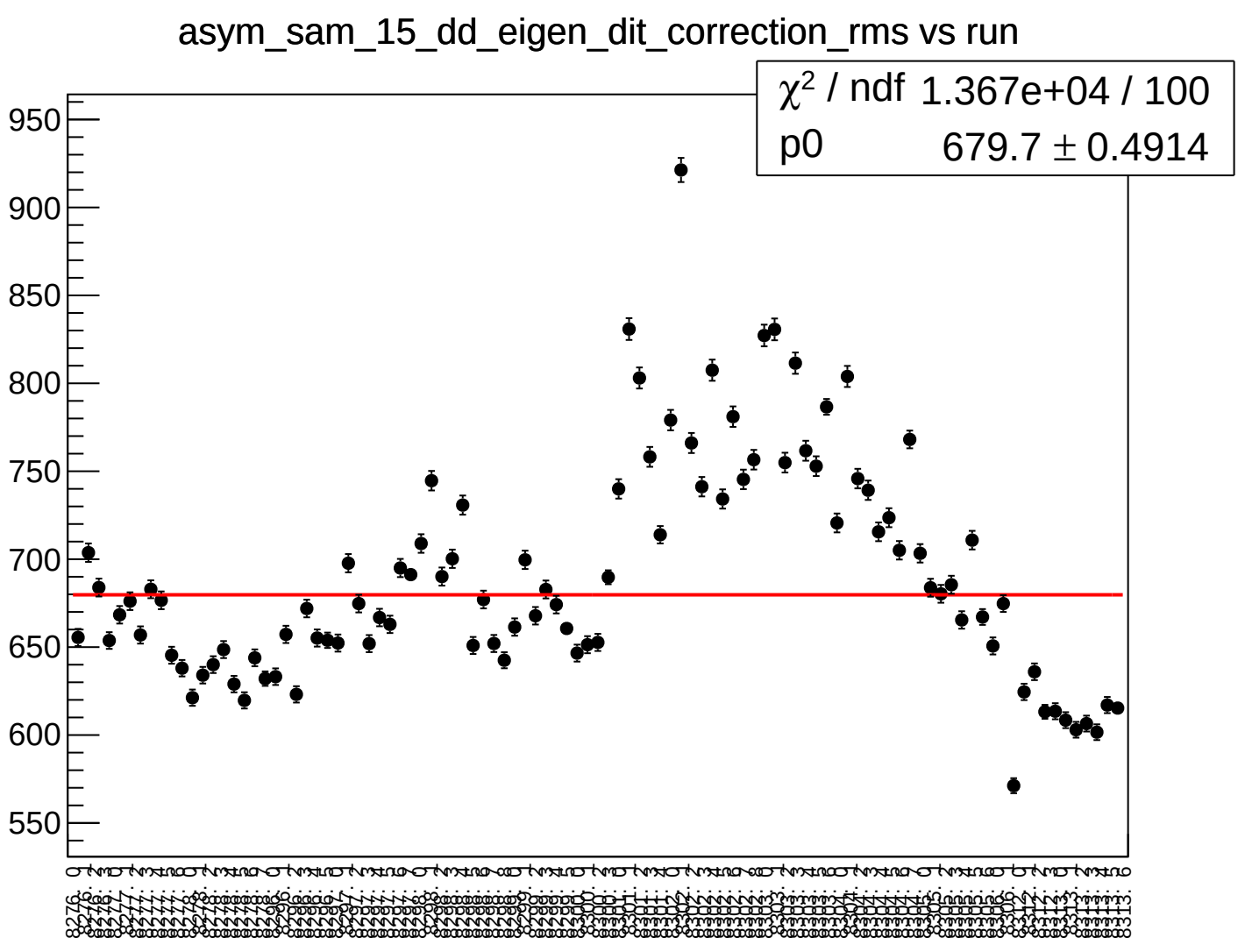

eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 98.92 / 100
p0 −136.7 ± 96.3
pull
Entries 101
Mean −324.9
Std Dev 0

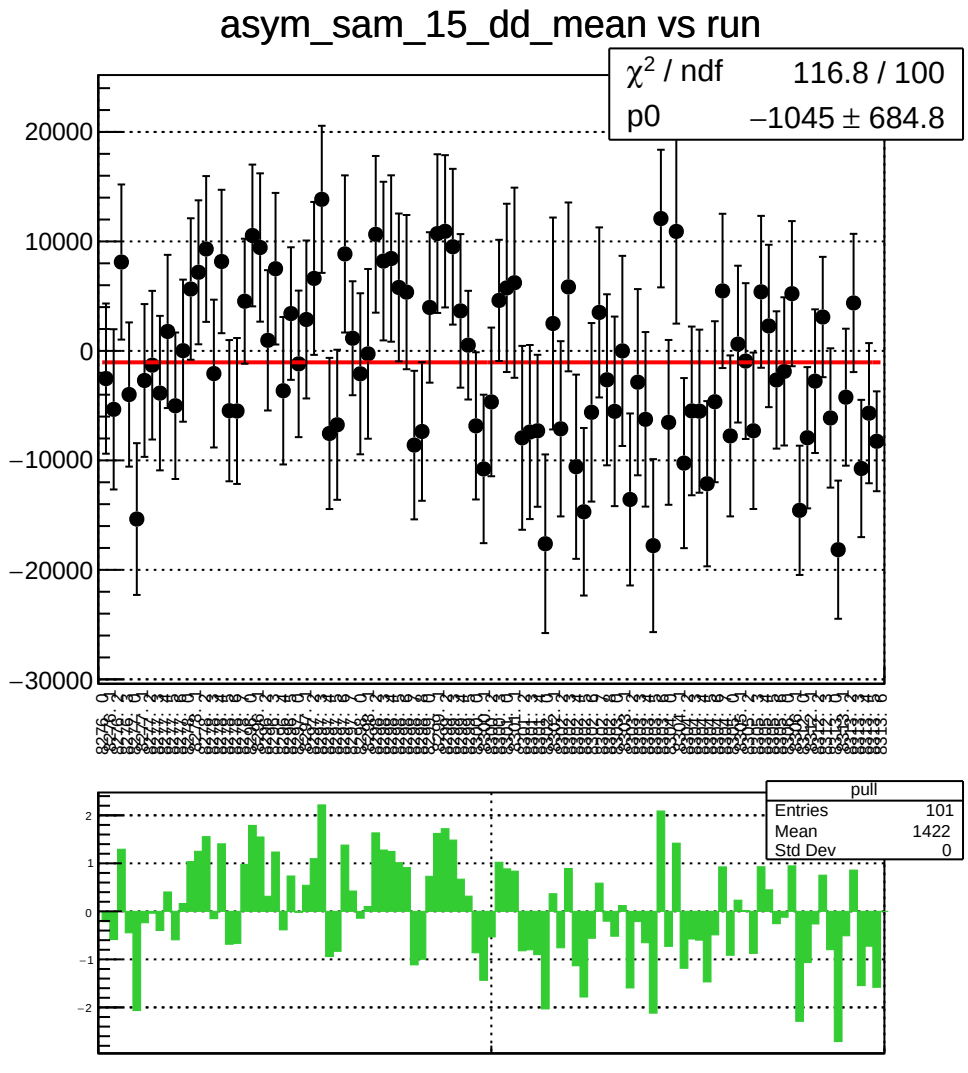

pull1D
Entries 101
Mean −0.01417
Std Dev 0.9895

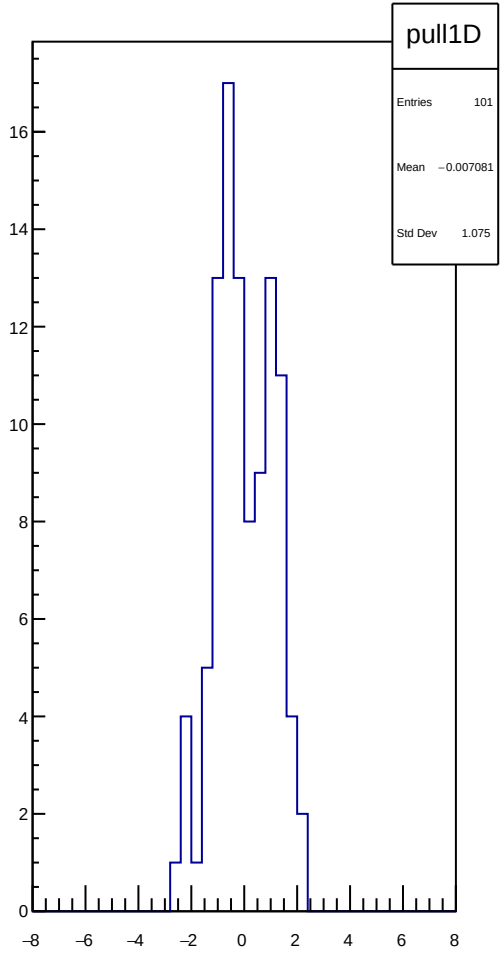

eigen_dit_asym_sam_15_dd_rms vs run
χ² / ndf 414.4 / 100
p0 94.53 ± 0.0681
98
96
94
92
90

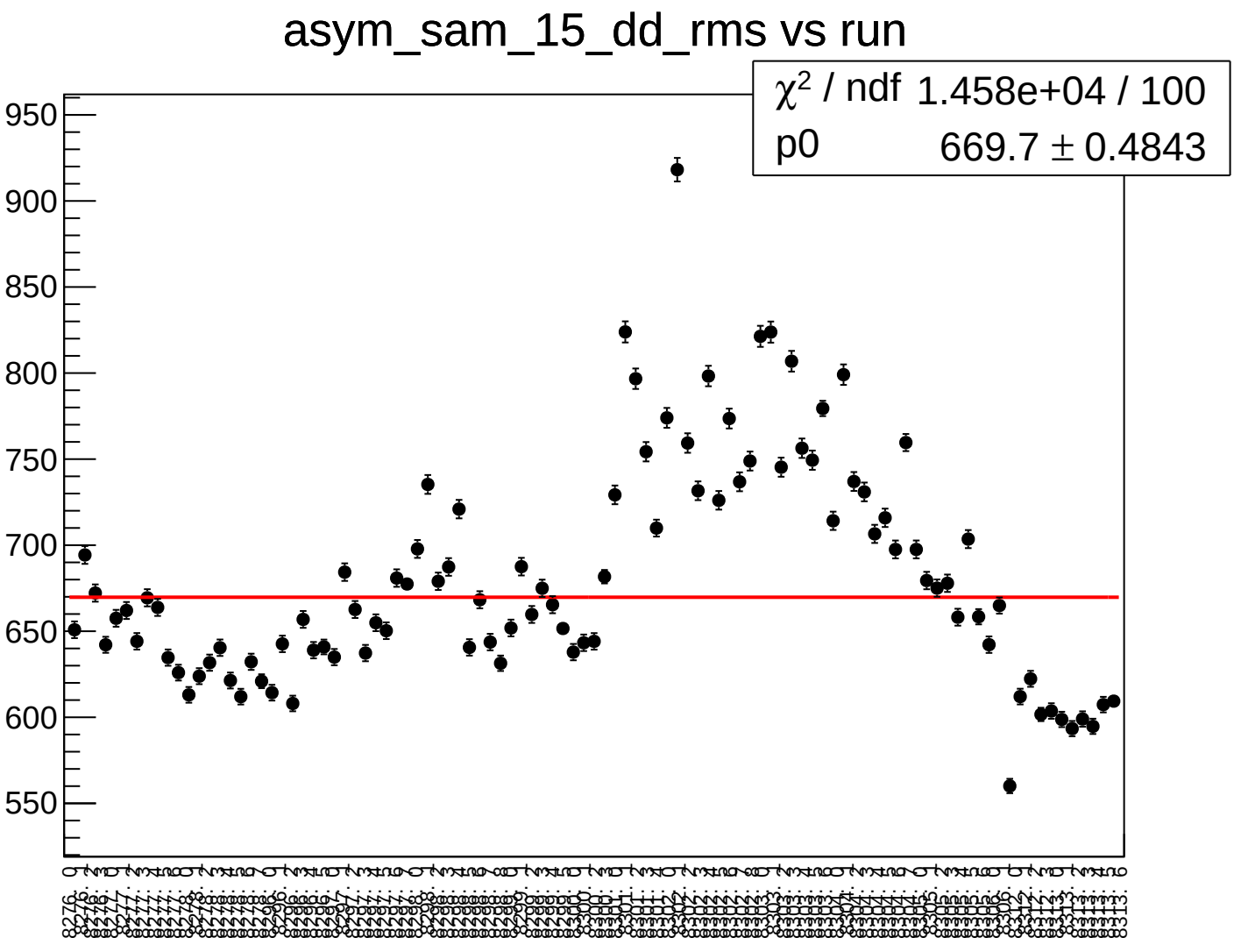

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 120.6 / 100
p0 938.7 ± 694.9
30000
20000
10000
0
−10000
−20000
pull
Entries 101
Mean 3589
Std Dev 0
3
2
1
0
−1
−2

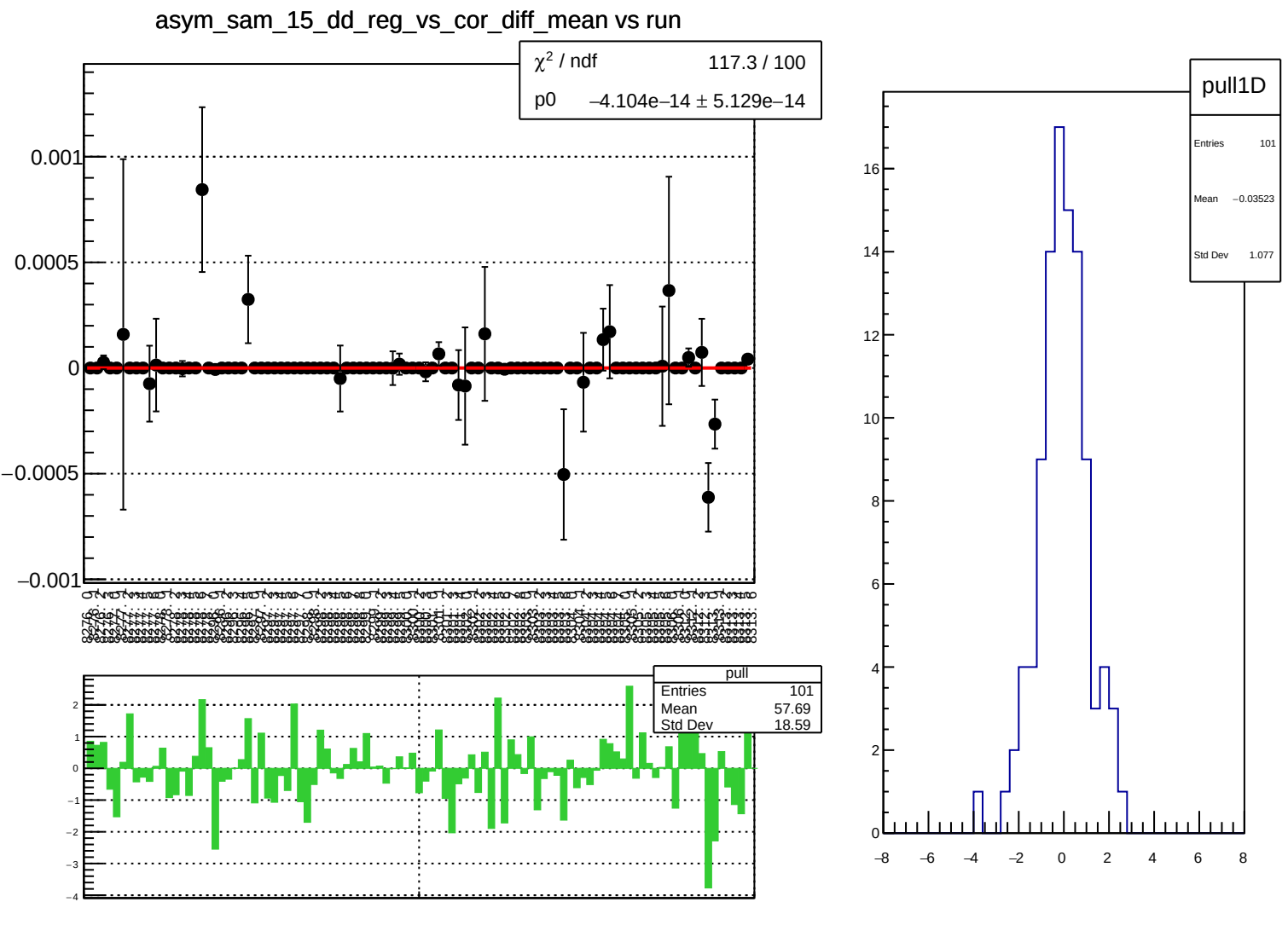

pull1D
Entries 101
Mean 0.002923
Std Dev 1.093
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

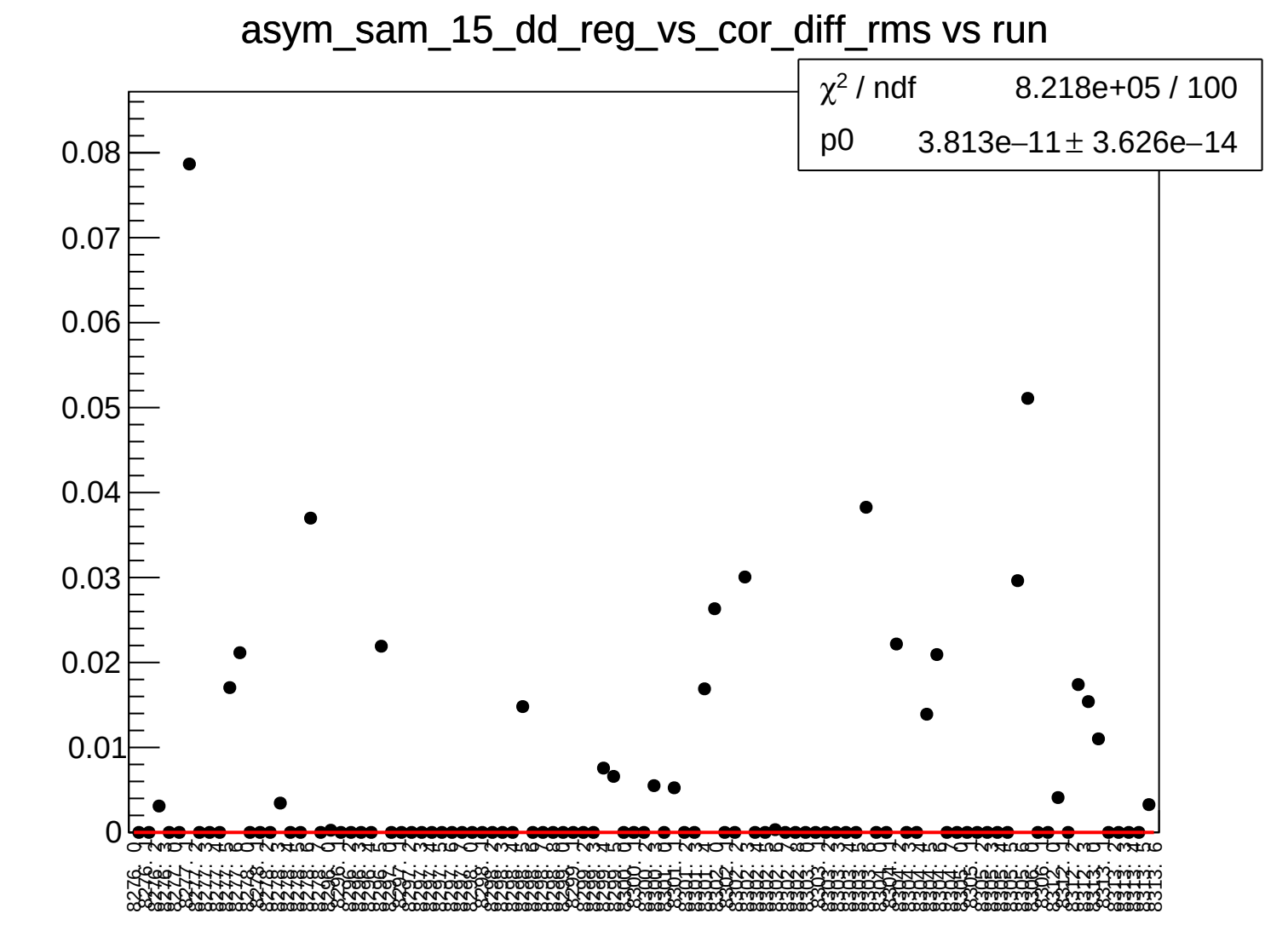

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.367e+04 / 100
p0 679.7 ± 0.4914
950
900
850
800
750
700
650
600
550

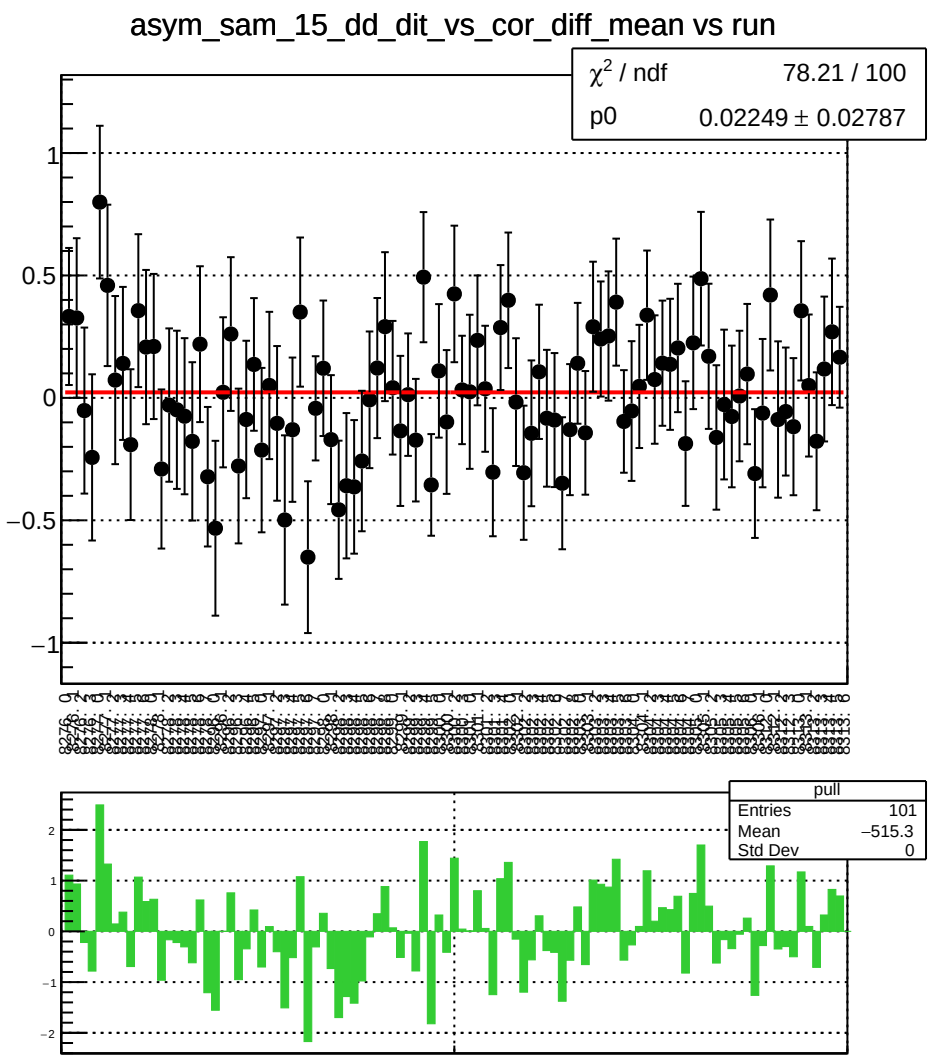

asym_sam_15_dd_mean vs run
χ² / ndf 116.8 / 100
p0 −1045 ± 684.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 101
Mean 1422
Std Dev 0
2
1
0
−1
−2

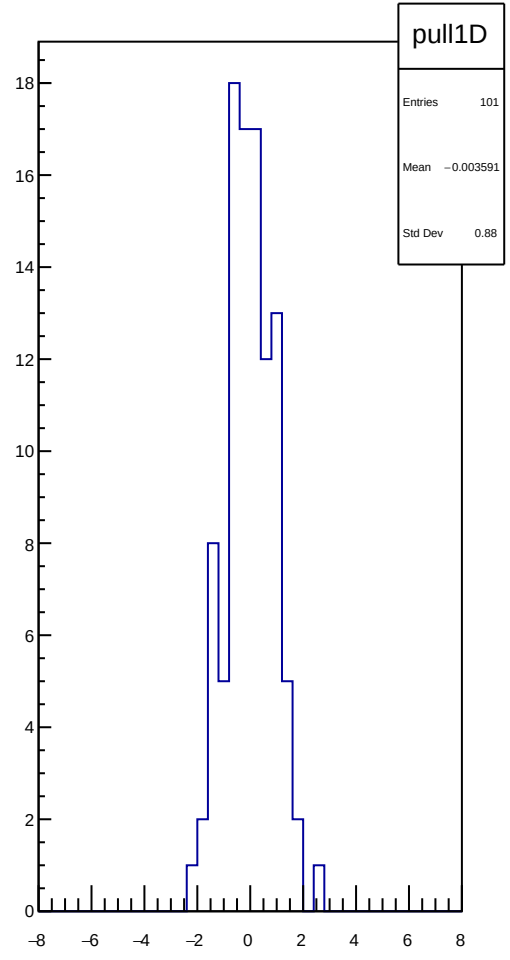

pull1D
Entries 101
Mean −0.007081
Std Dev 1.075
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

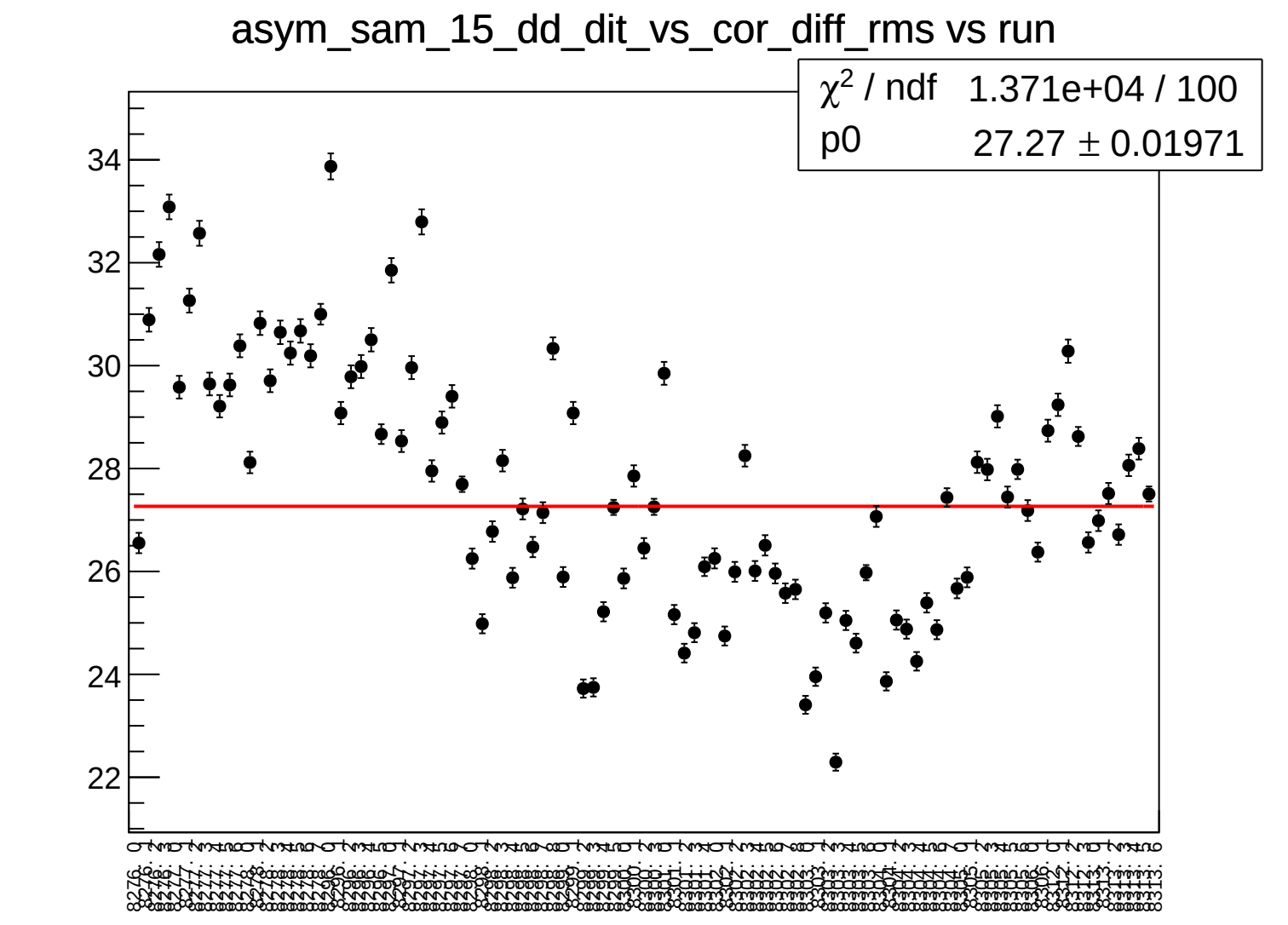

asym_sam_15_dd_rms vs run
χ² / ndf 1.458e+04 / 100
p0 669.7 ± 0.4843
950
900
850
800
750
700
650
600
550

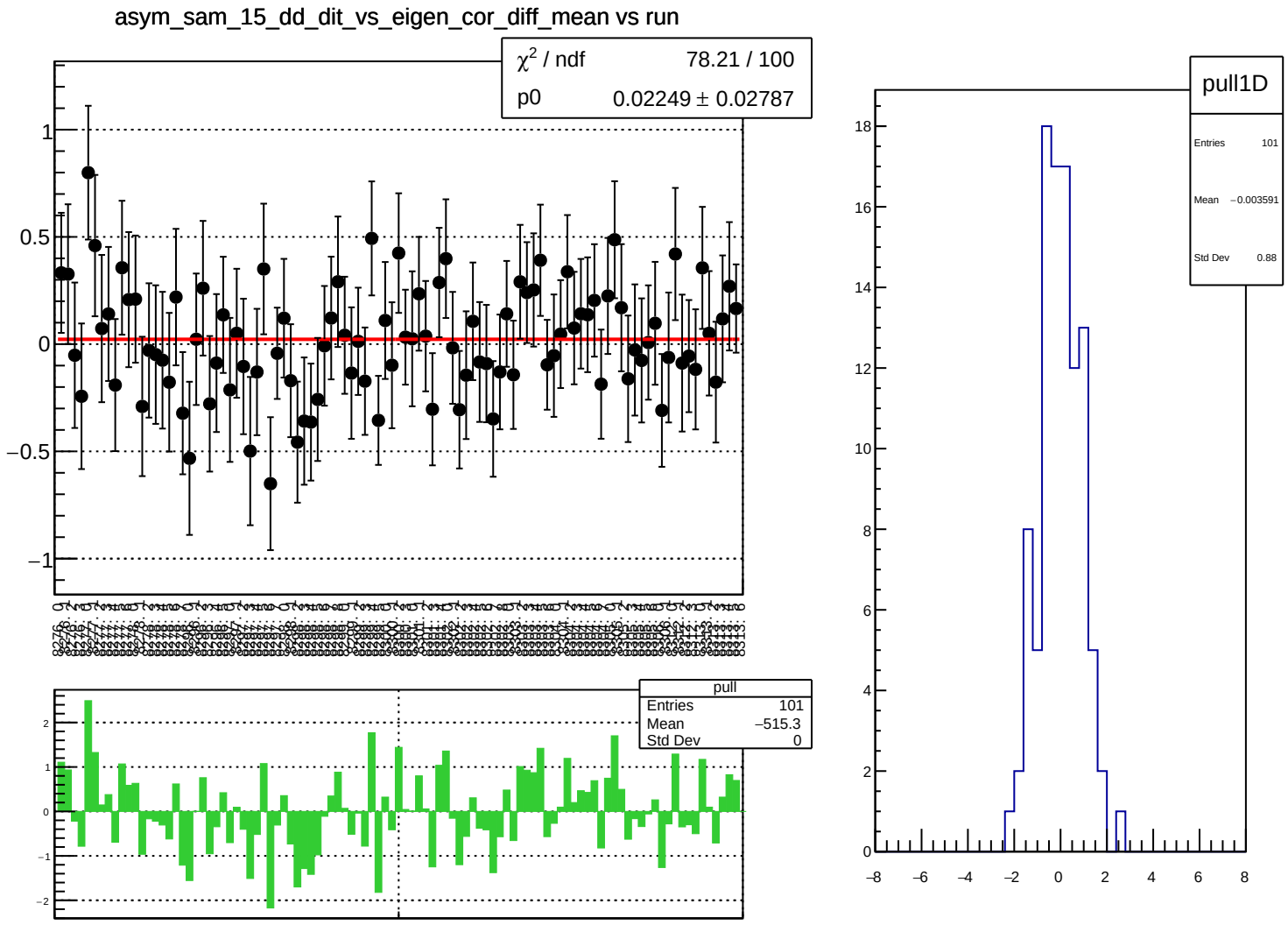

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 117.3 / 100
p0 −4.104e−14 ± 5.129e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 101
Mean 57.69
Std Dev 18.59
2
1
0
−1
−2
−3
−4
pull1D
Entries 101
Mean −0.03523
Std Dev 1.077
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

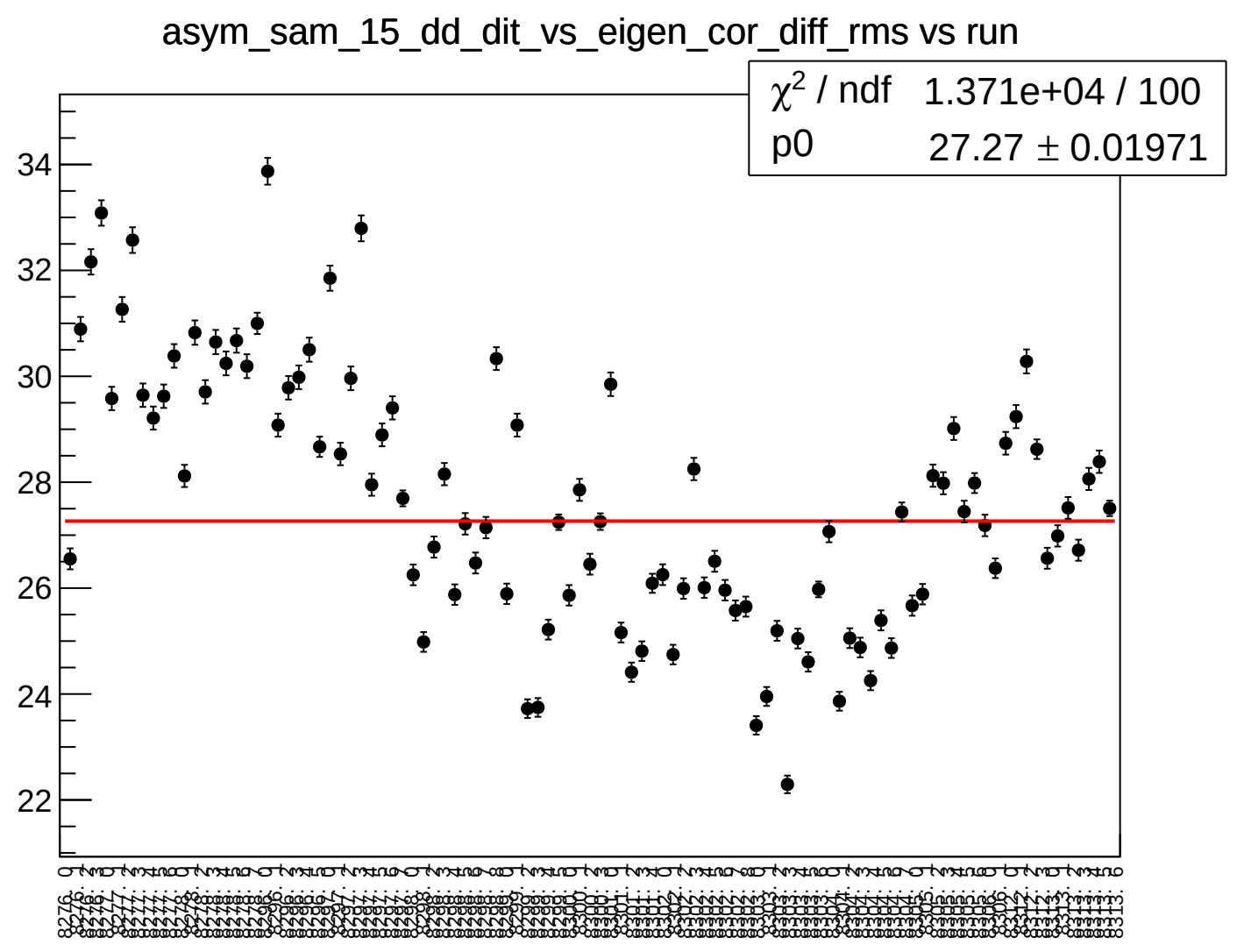

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.218e+05 / 100
p0 3.813e−11 ± 3.626e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

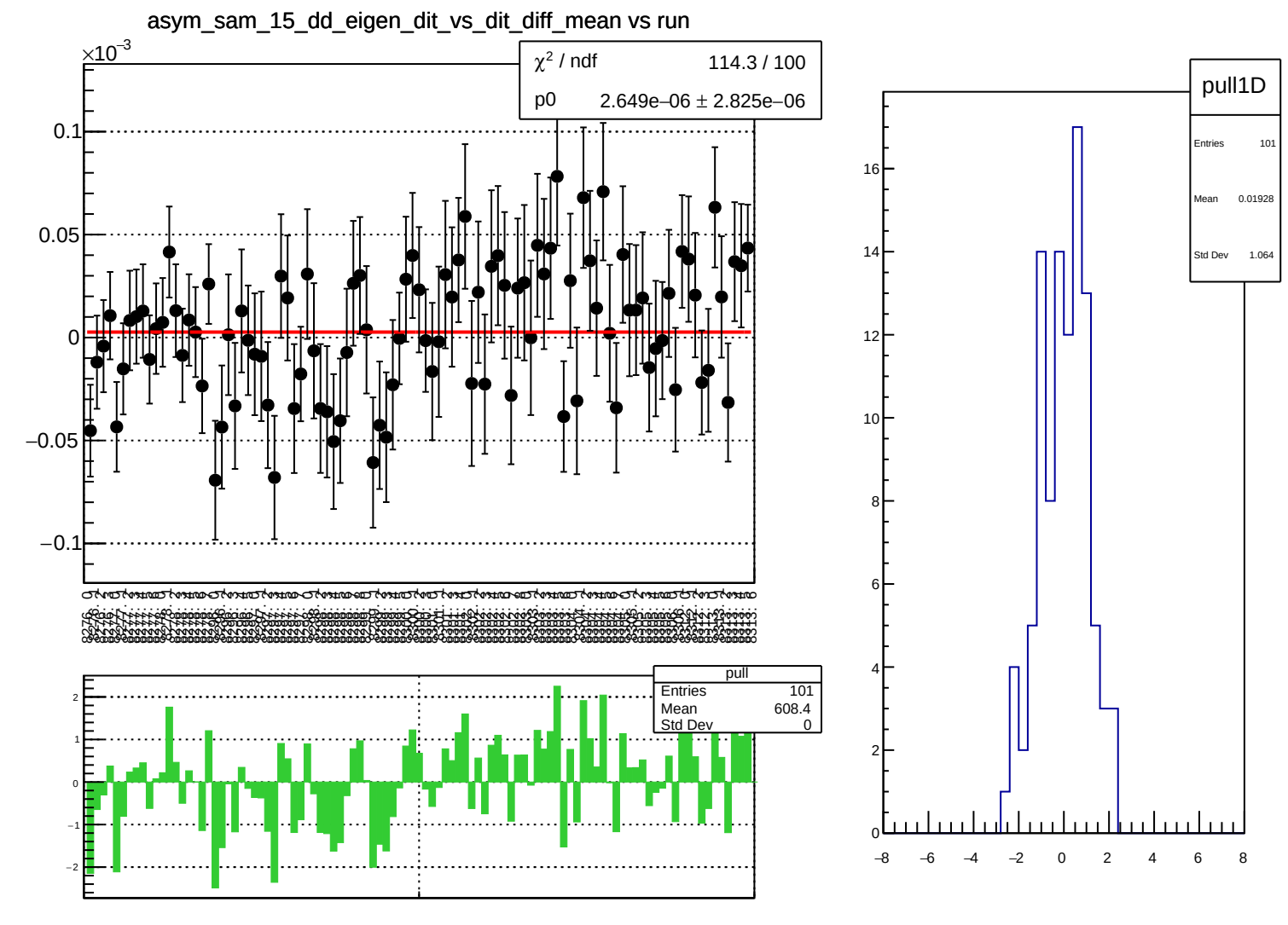

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 78.21 / 100
p0 0.02249 ± 0.02787
pull
Entries 101
Mean −515.3
Std Dev 0

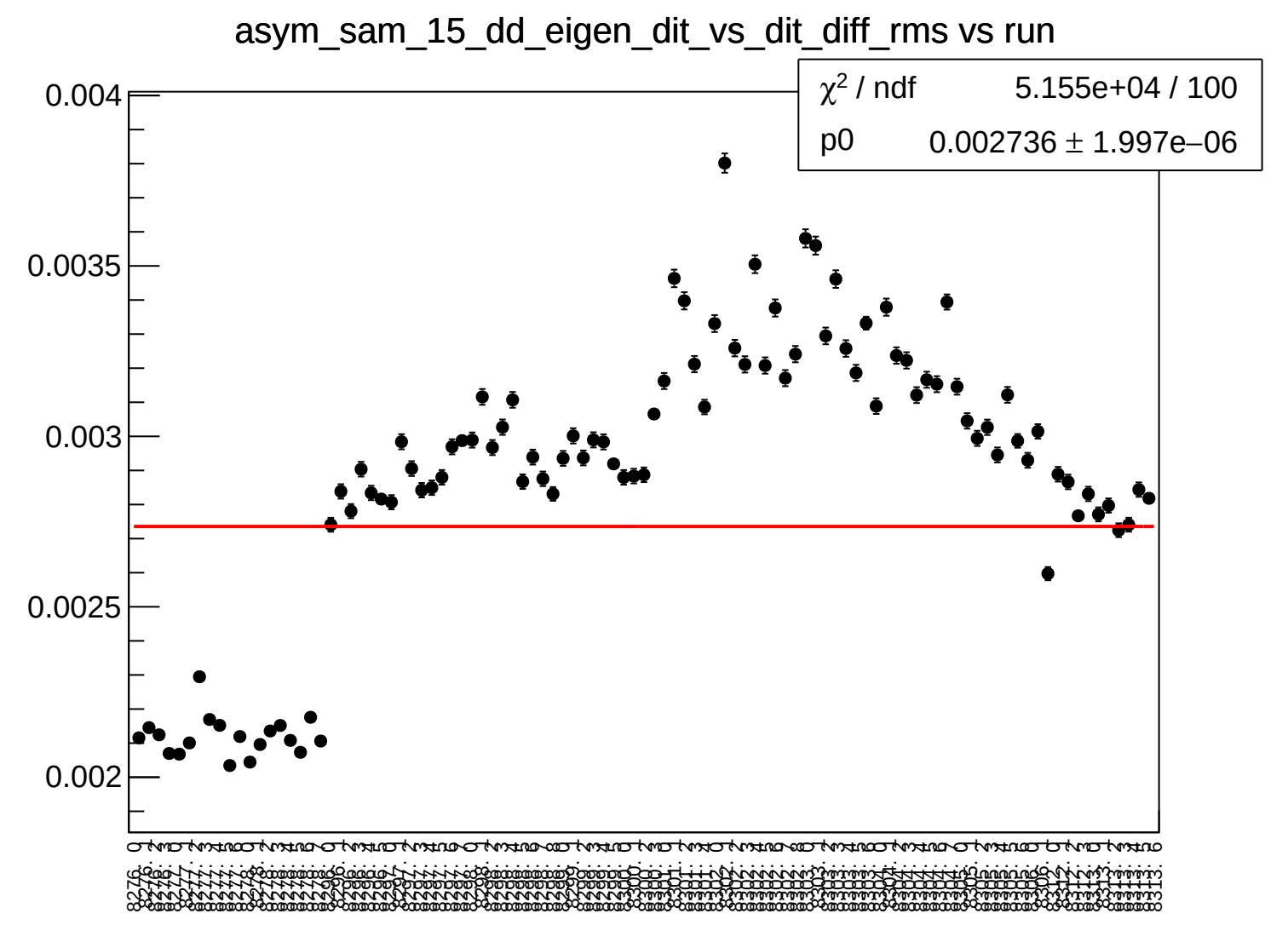

pull1D
Entries 101
Mean −0.003591
Std Dev 0.88

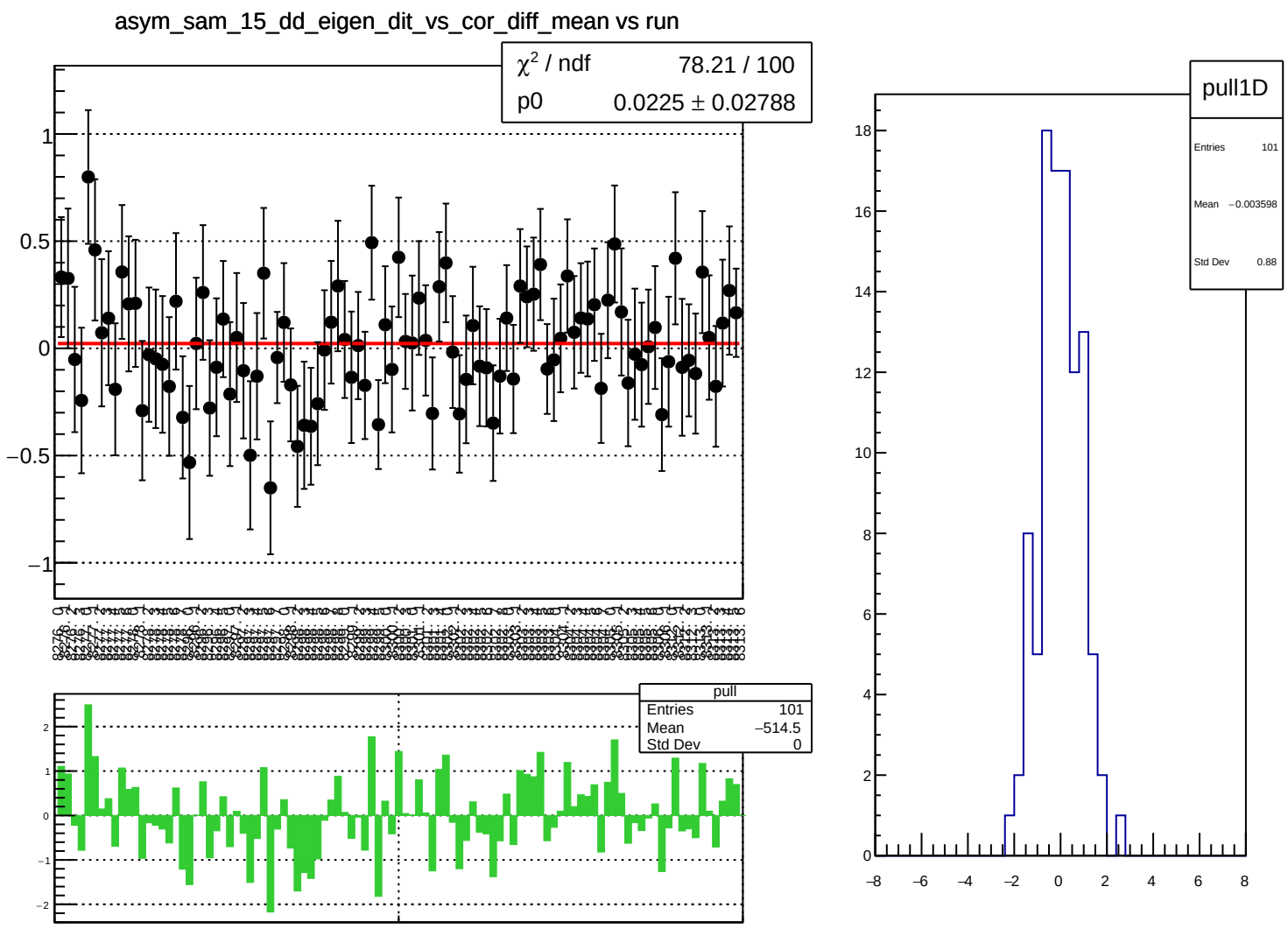

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.371e+04 / 100
p0 27.27 ± 0.01971
34
32
30
28
26
24
22

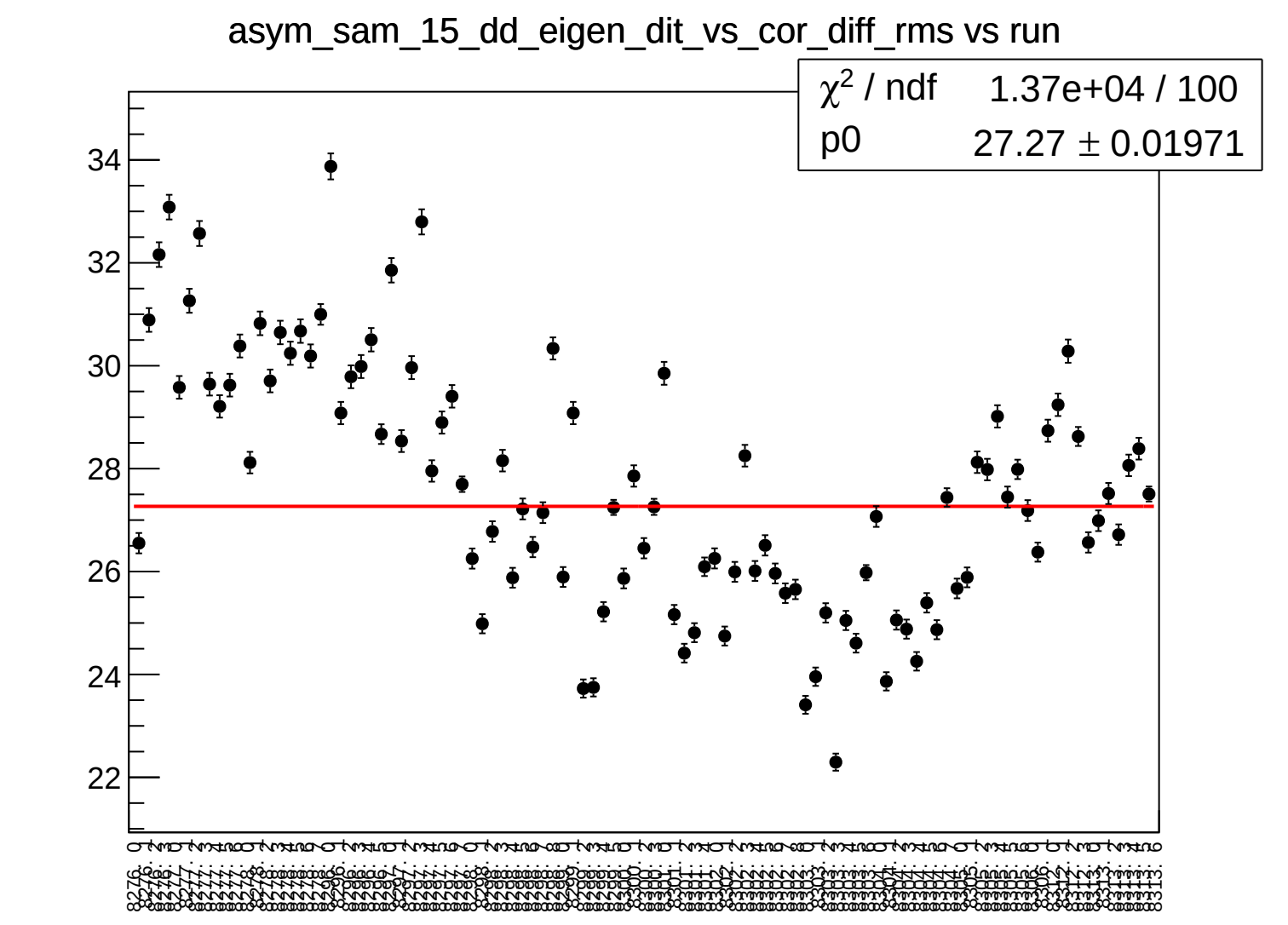

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.21 / 100
p0 0.02249 ± 0.02787
pull
Entries 101
Mean −515.3
Std Dev 0
pull1D
Entries 101
Mean −0.003591
Std Dev 0.88

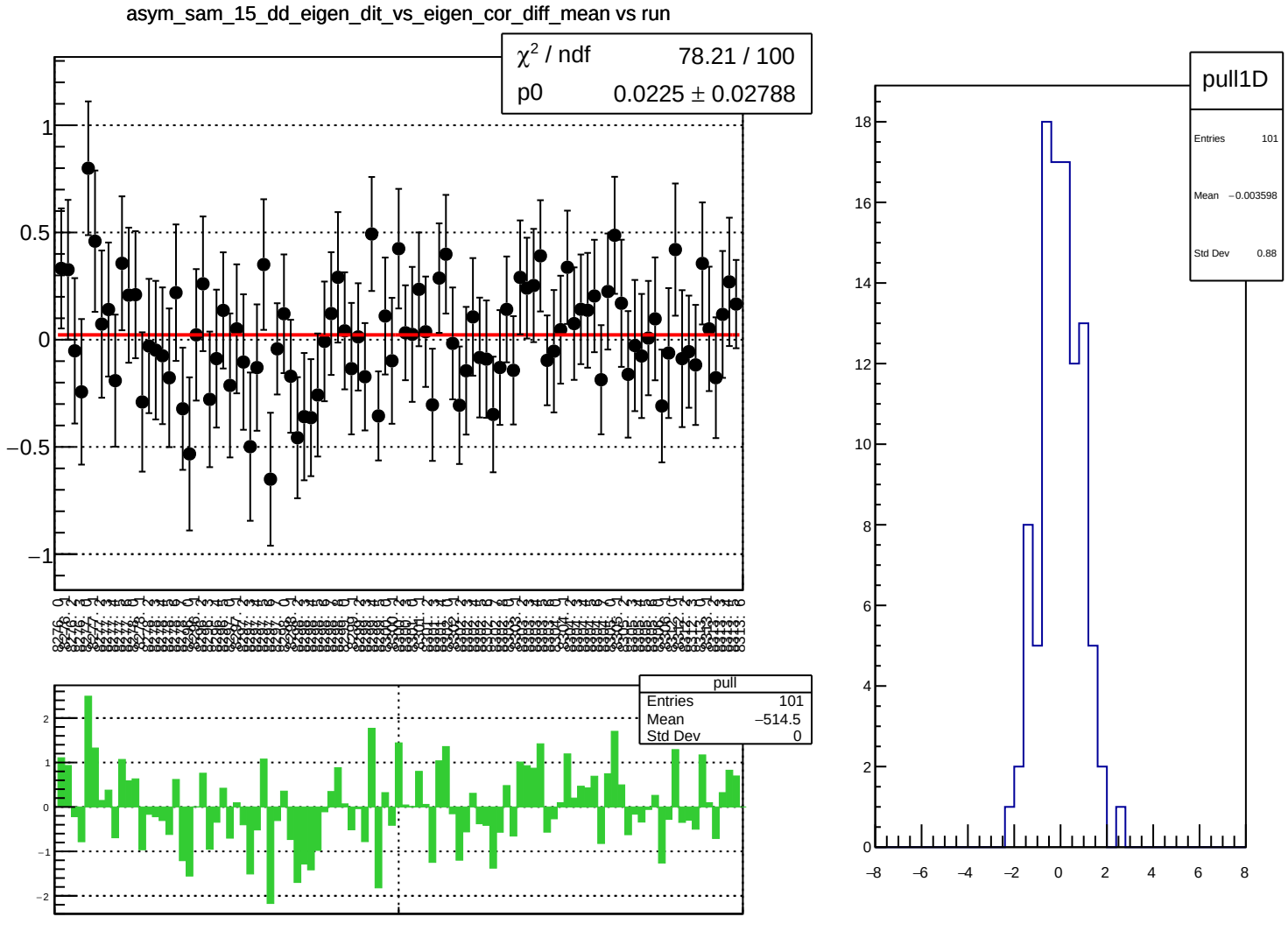

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.371e+04 / 100
p0 27.27 ± 0.01971
34
32
30
28
26
24
22

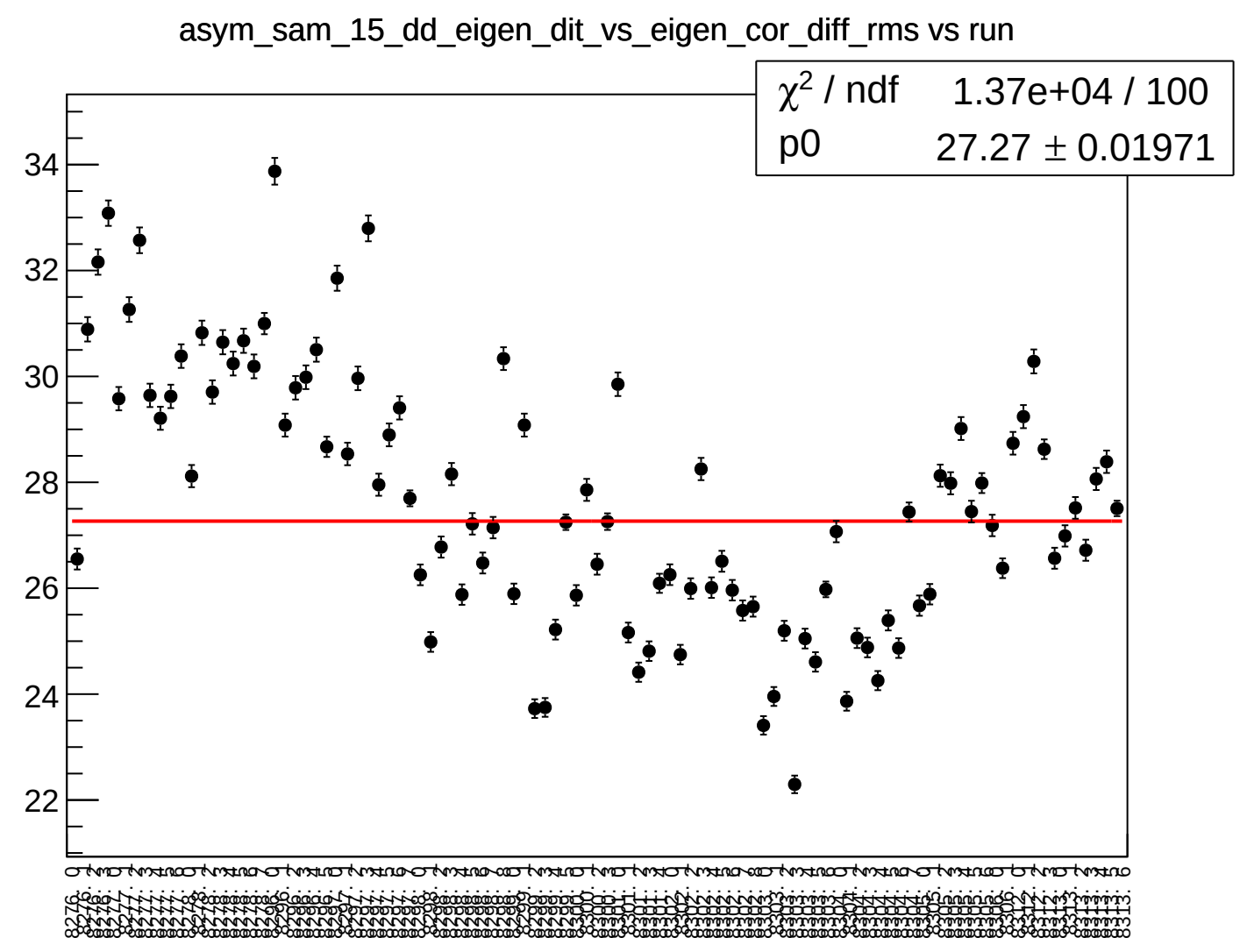

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 114.3 / 100
p0 2.649e−06 ± 2.825e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 101
Mean 608.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.01928
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

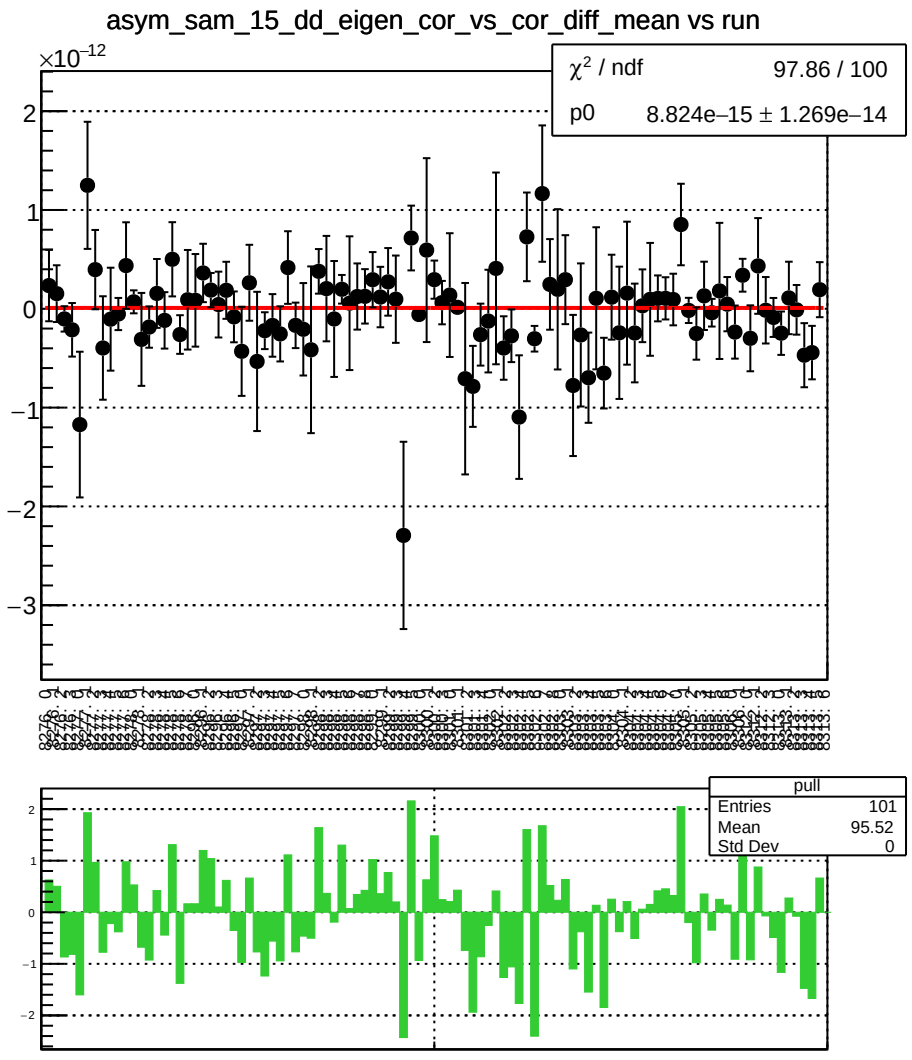

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.155e+04 / 100
p0 0.002736 ± 1.997e−06
0.004
0.0035
0.003
0.0025
0.002

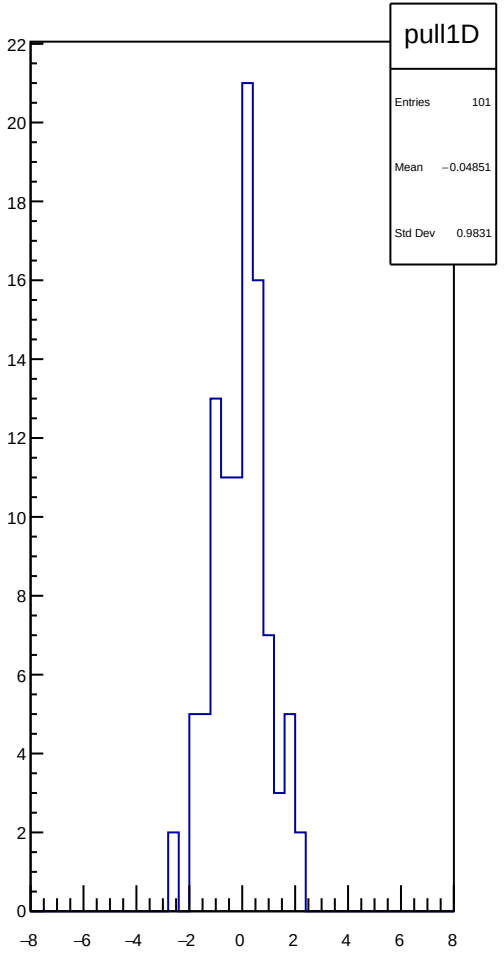

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.21 / 100
p0 0.0225 ± 0.02788
pull
Entries 101
Mean −514.5
Std Dev 0
pull1D
Entries 101
Mean −0.003598
Std Dev 0.88

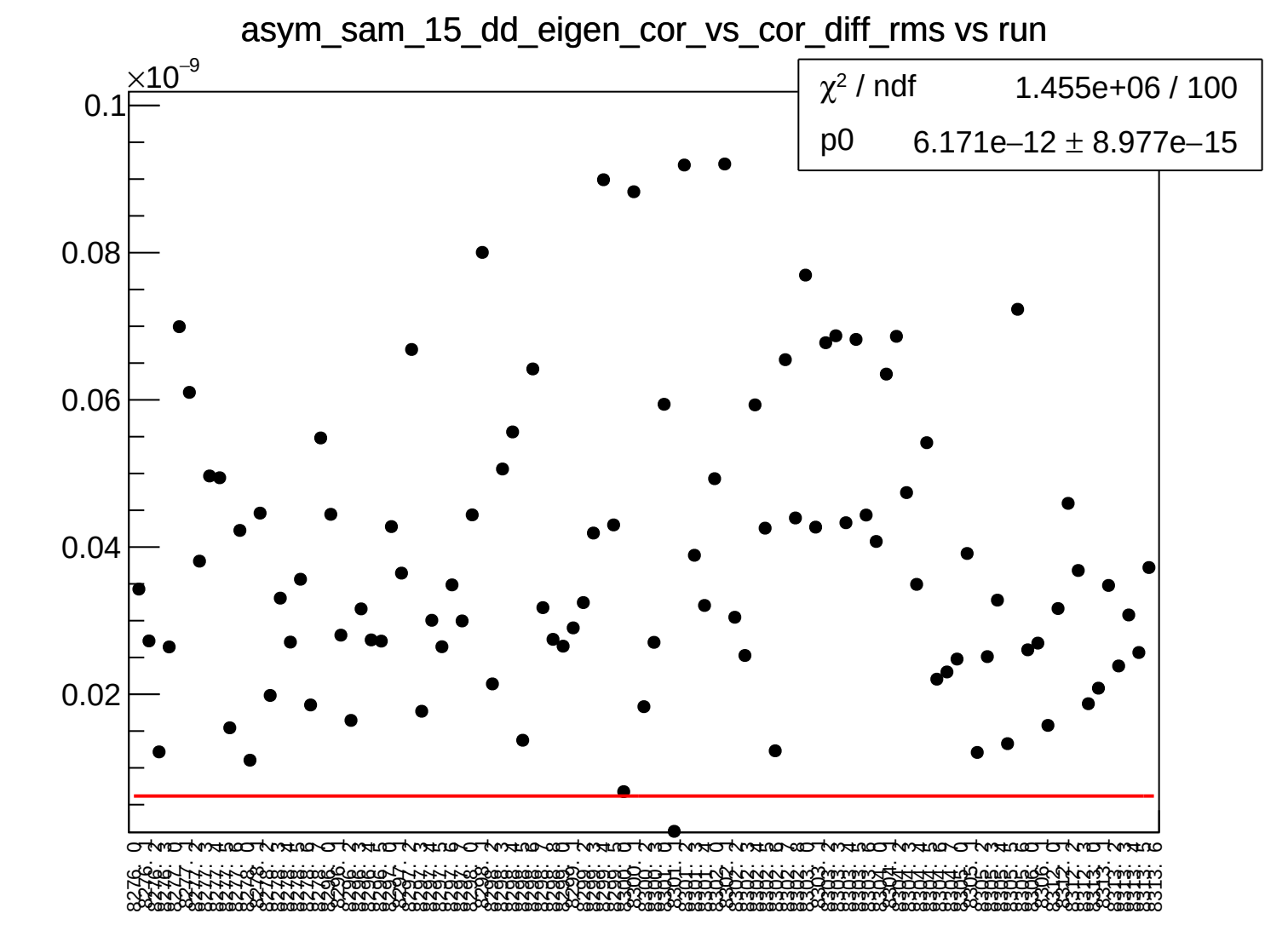

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.37e+04 / 100
p0 27.27 ± 0.01971
34
32
30
28
26
24
22

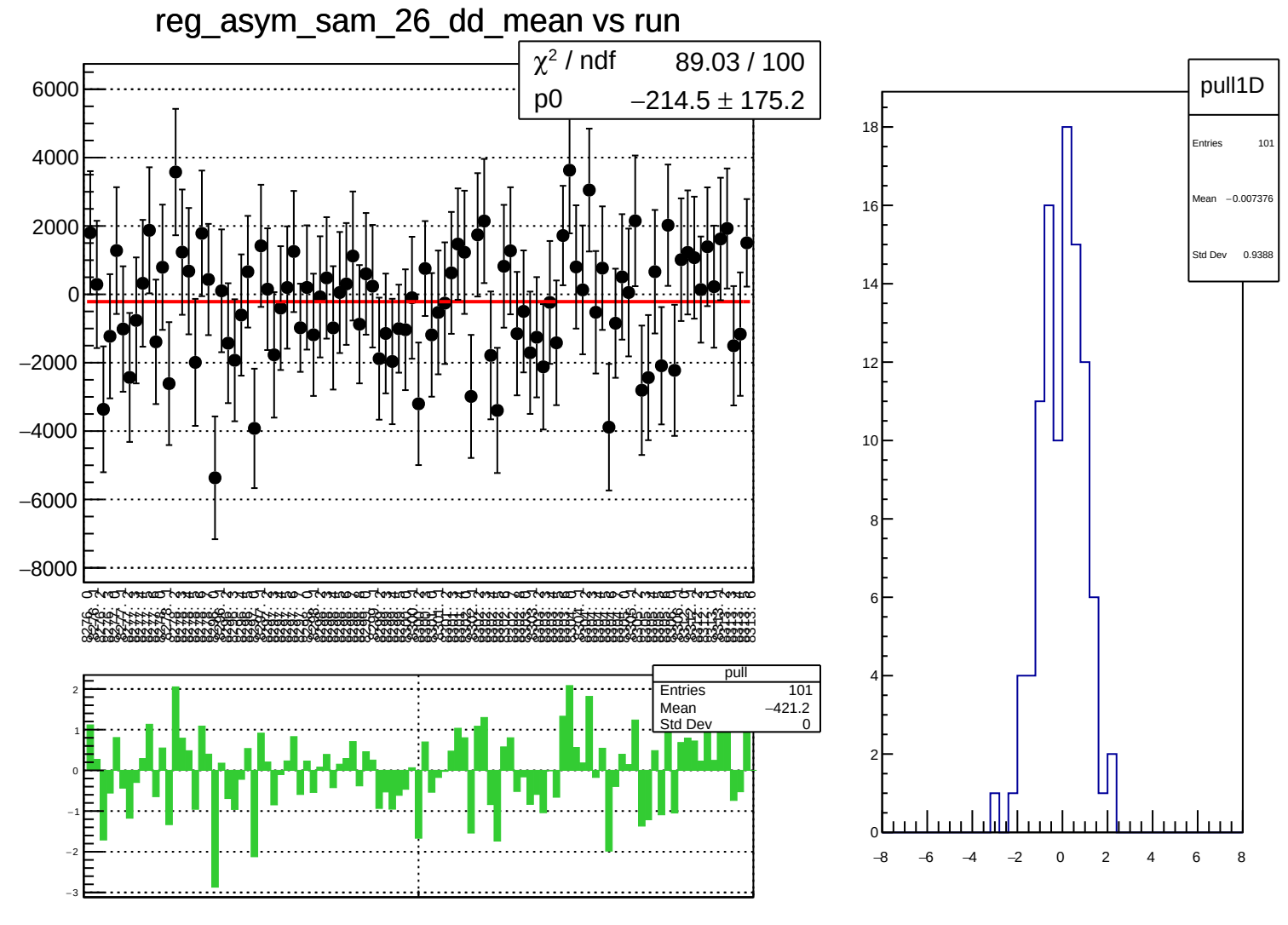

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.21 / 100
p0 0.0225 ± 0.02788
pull
Entries 101
Mean −514.5
Std Dev 0
pull1D
Entries 101
Mean −0.003598
Std Dev 0.88

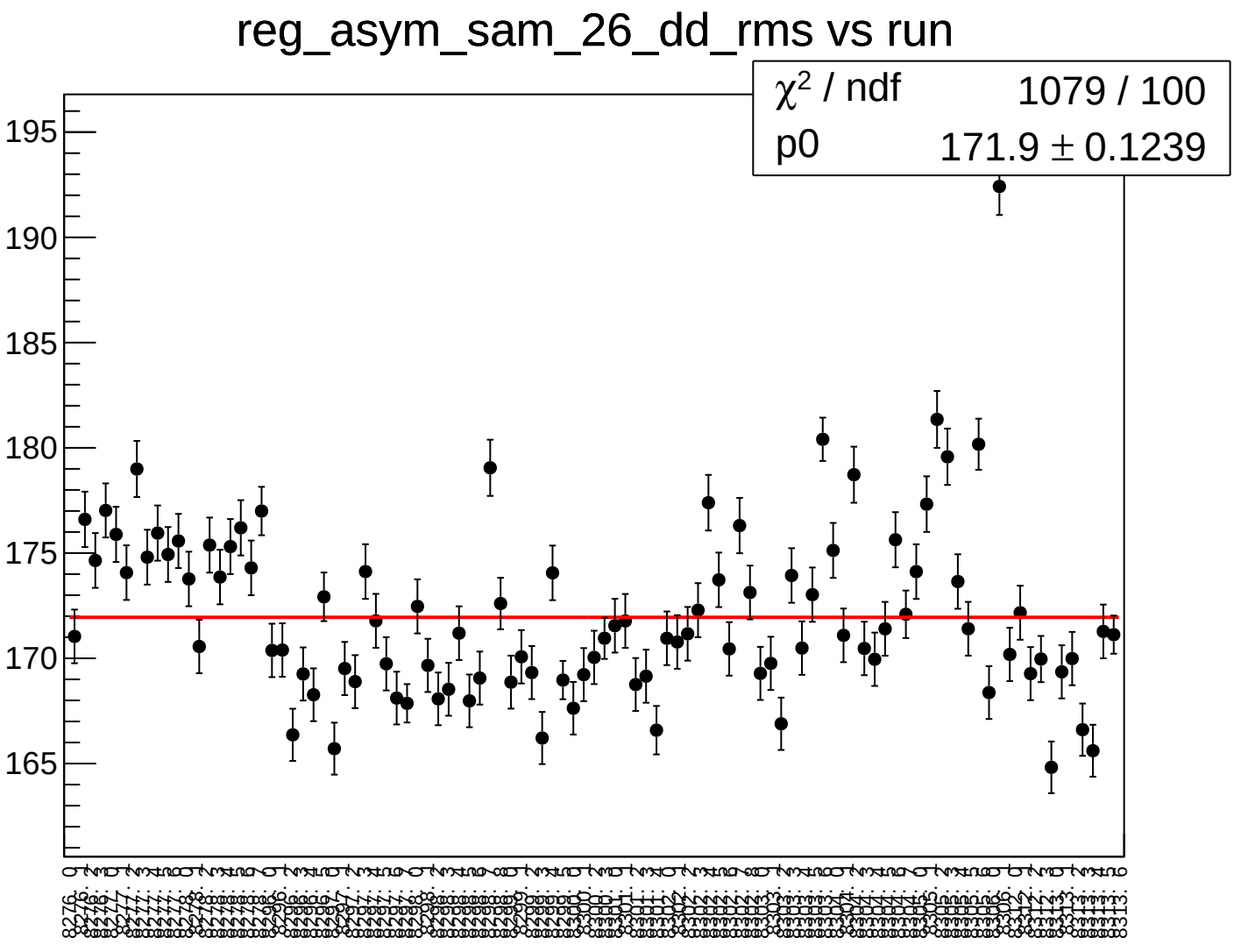

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.37e+04 / 100
p0 27.27 ± 0.01971
34
32
30
28
26
24
22

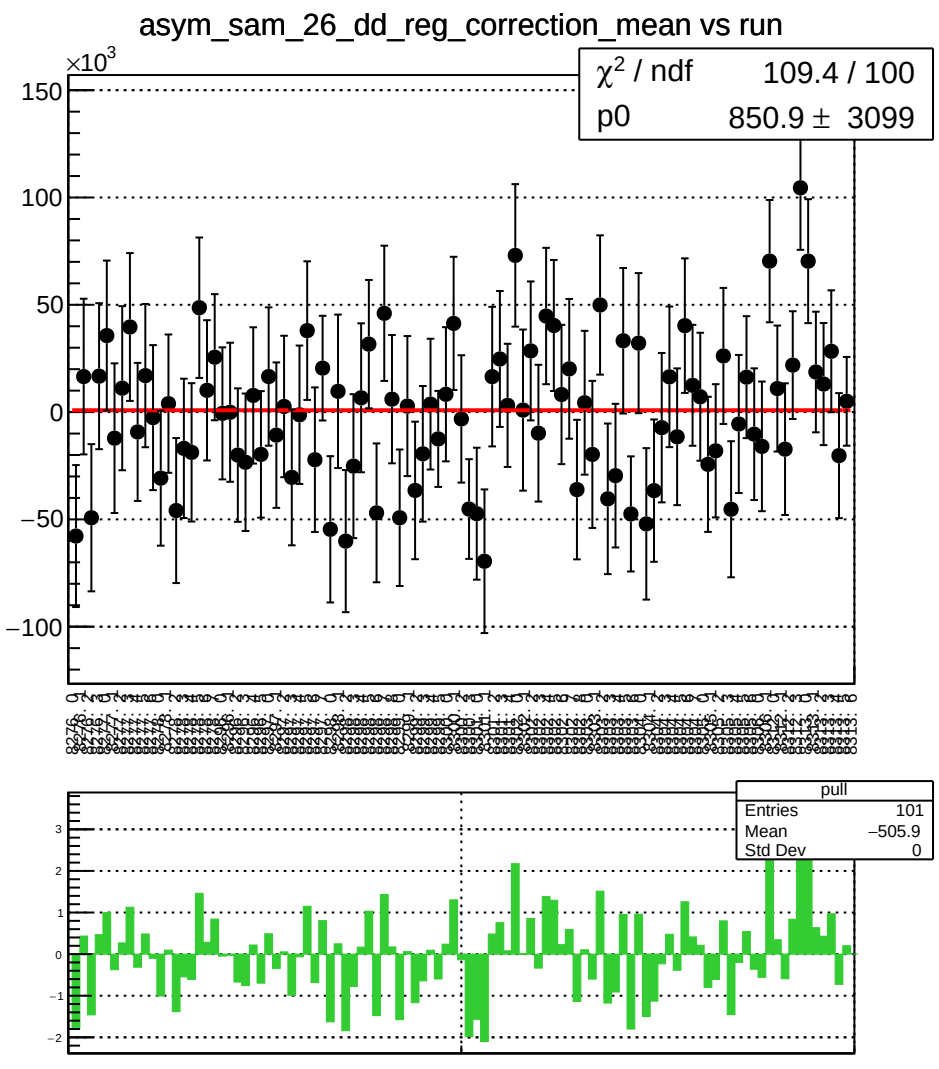

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.86 / 100
p0 8.824e−15 ± 1.269e−14
pull
Entries 101
Mean 95.52
Std Dev 0

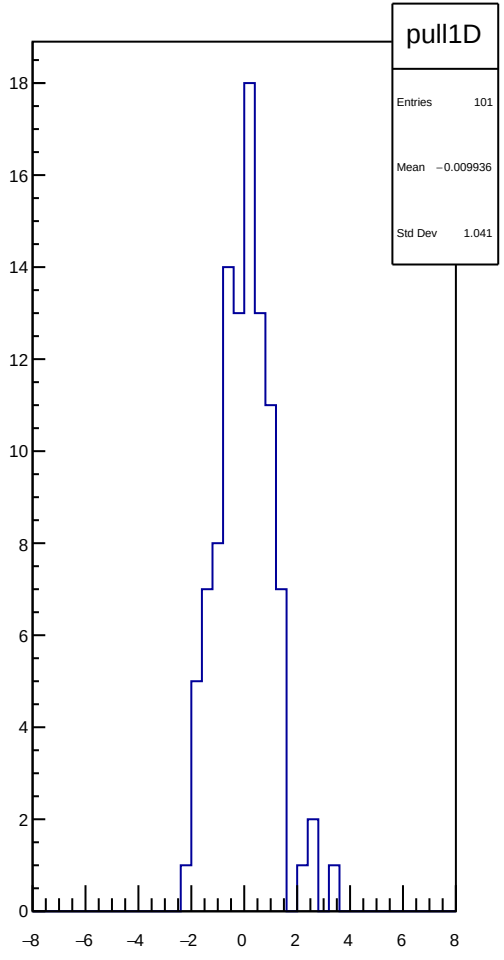

pull1D
Entries 101
Mean −0.04851
Std Dev 0.9831

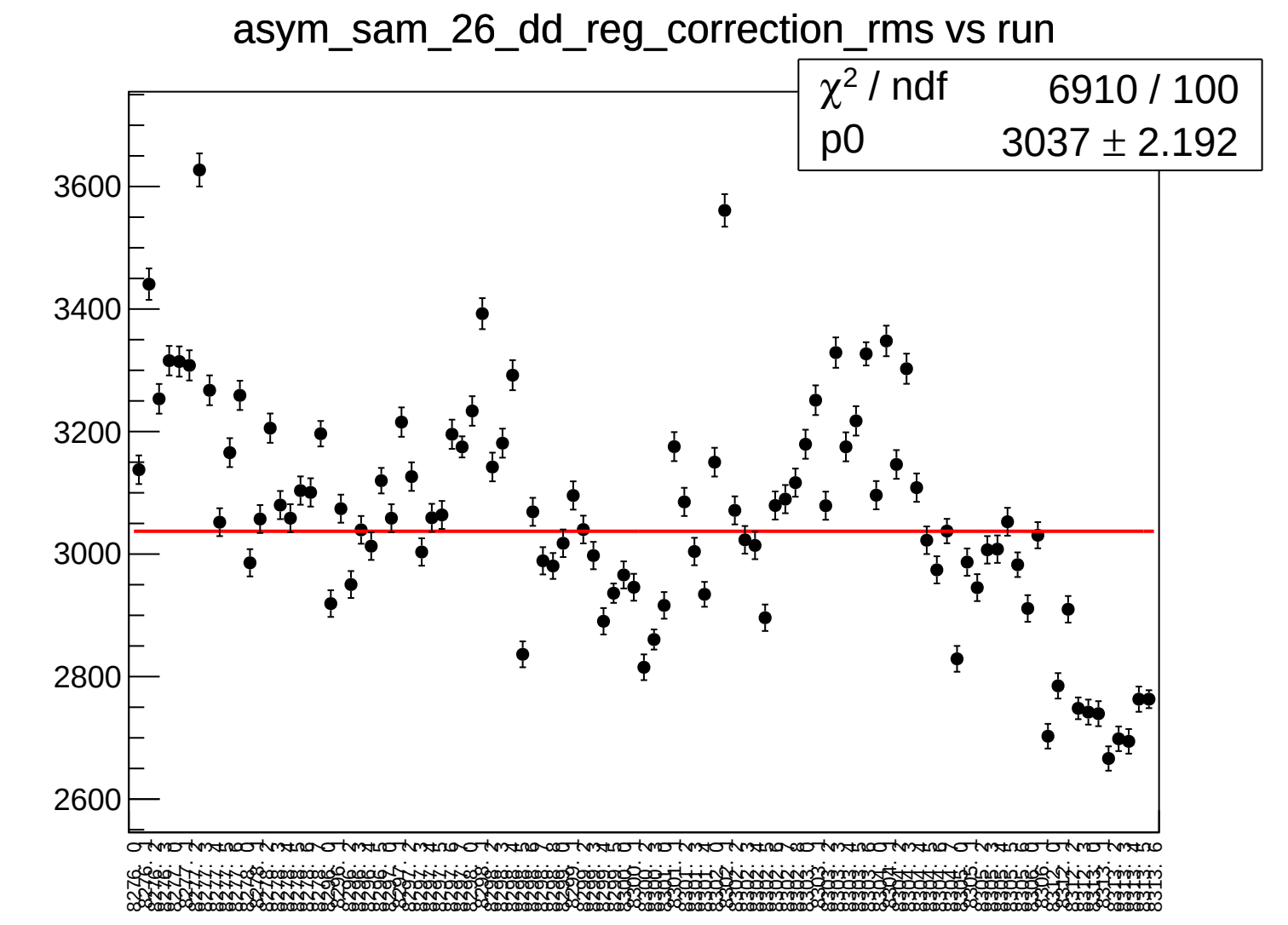

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.1
0.08
0.06
0.04
0.02
χ² / ndf 1.455e+06 / 100
p0 6.171e−12 ± 8.977e−15

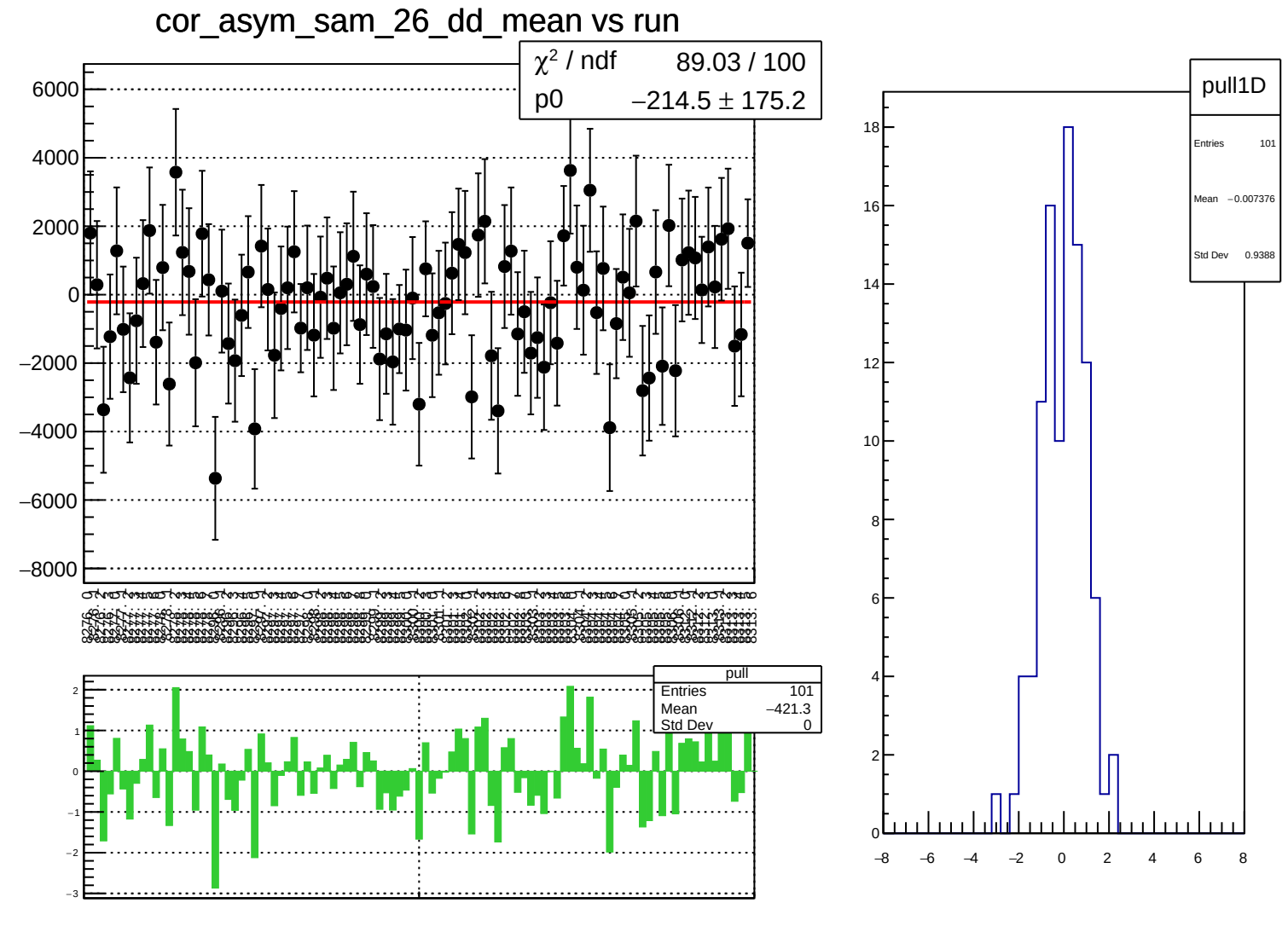

reg_asym_sam_26_dd_mean vs run
χ² / ndf 89.03 / 100
p0 −214.5 ± 175.2
pull
Entries 101
Mean −421.2
Std Dev 0
pull1D
Entries 101
Mean −0.007376
Std Dev 0.9388

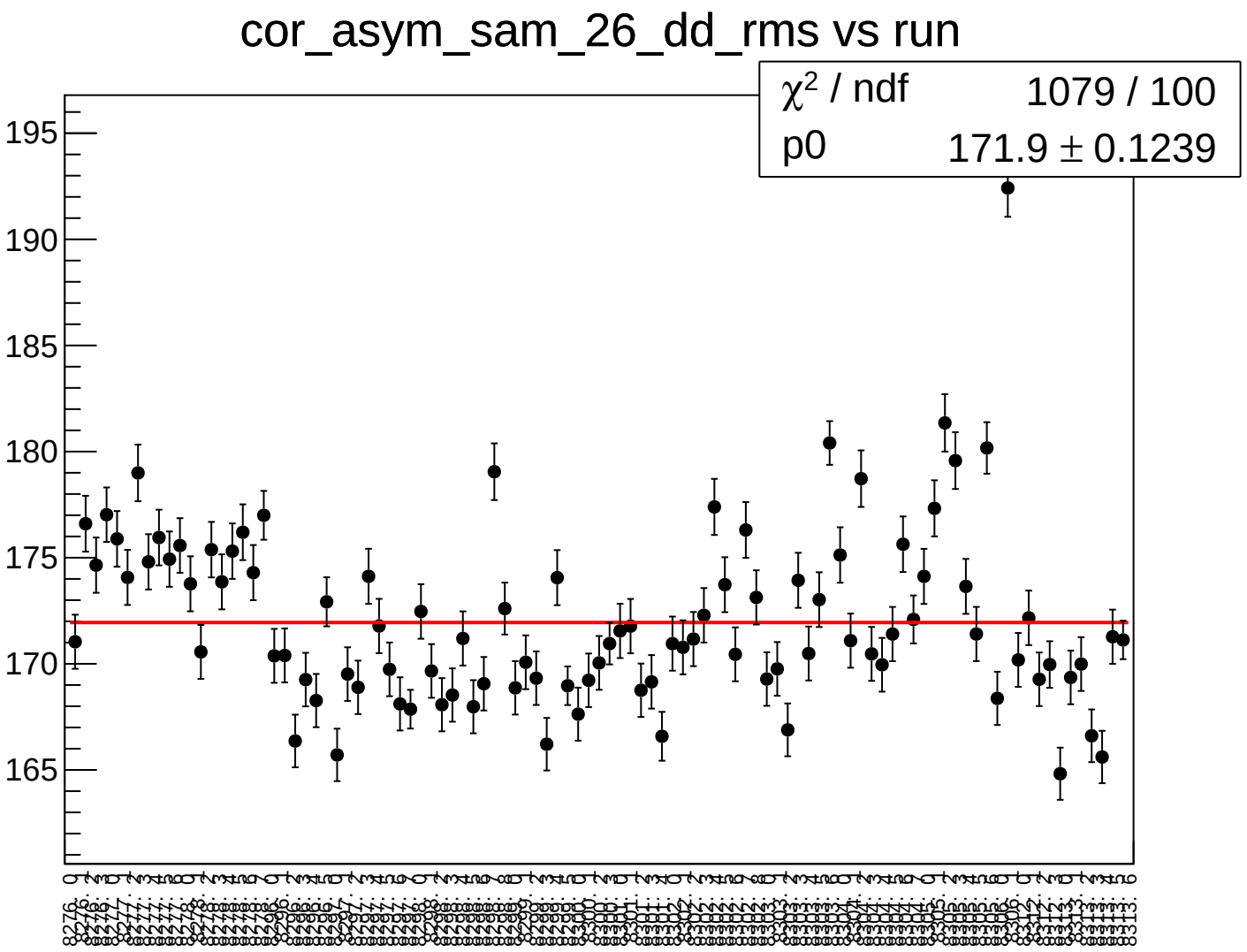

reg_asym_sam_26_dd_rms vs run
χ² / ndf 1079 / 100
p0 171.9 ± 0.1239
195
190
185
180
175
170
165

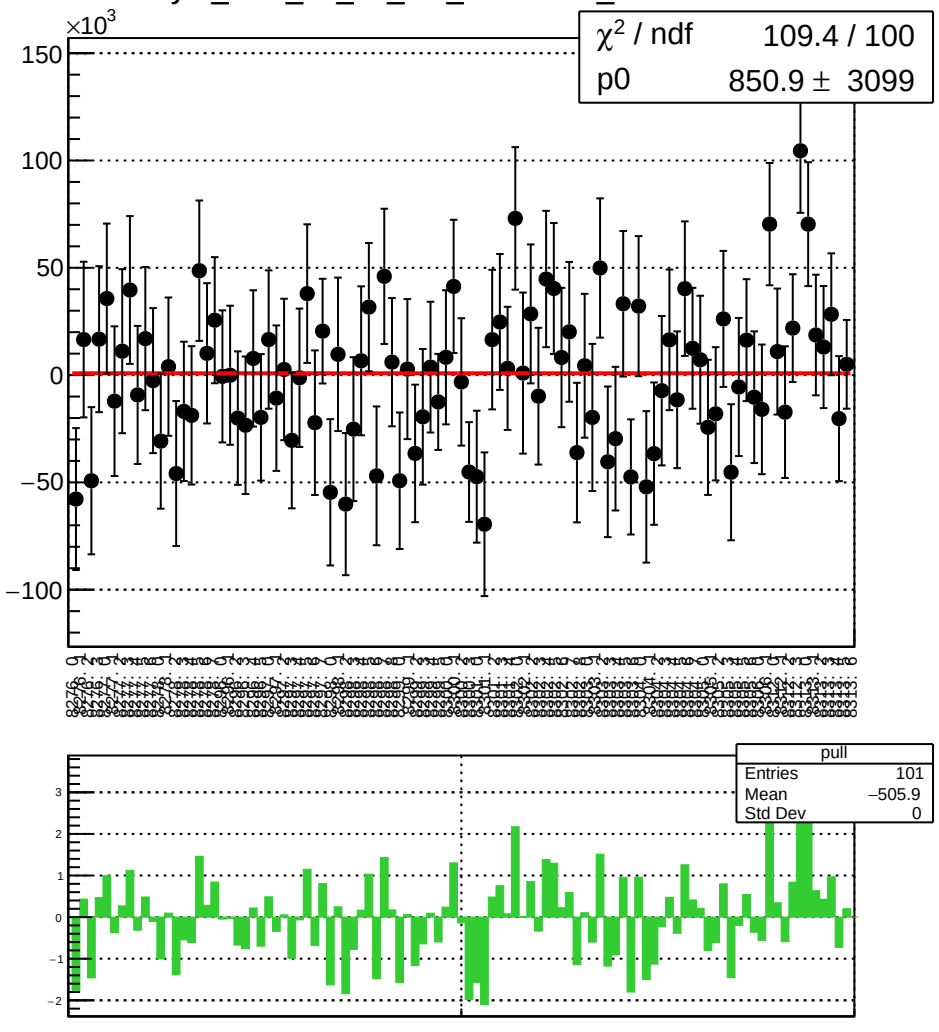

asym_sam_26_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 109.4 / 100
p0 850.9 ± 3099
150
100
50
0
−50
−100
pull
Entries 101
Mean −505.9
Std Dev 0
3
2
1
0
−1
−2

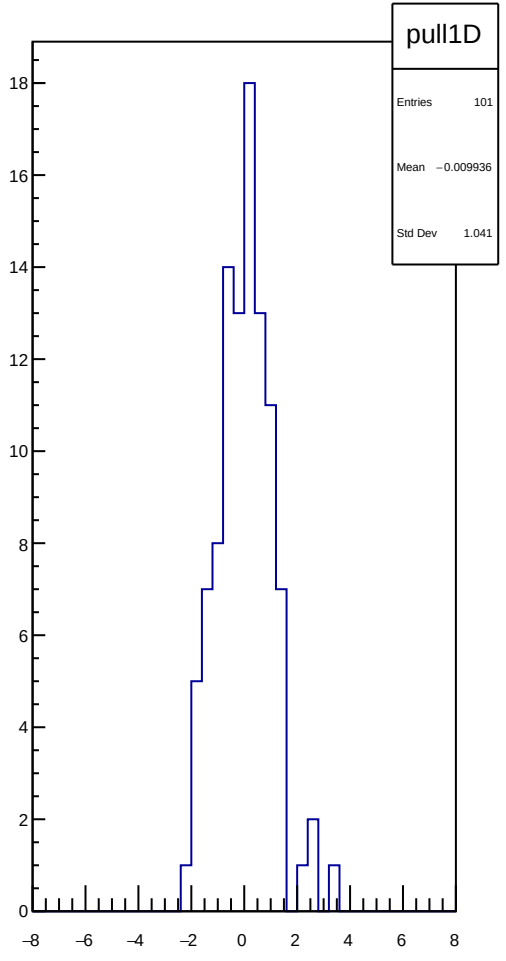

pull1D
Entries 101
Mean −0.009936
Std Dev 1.041
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

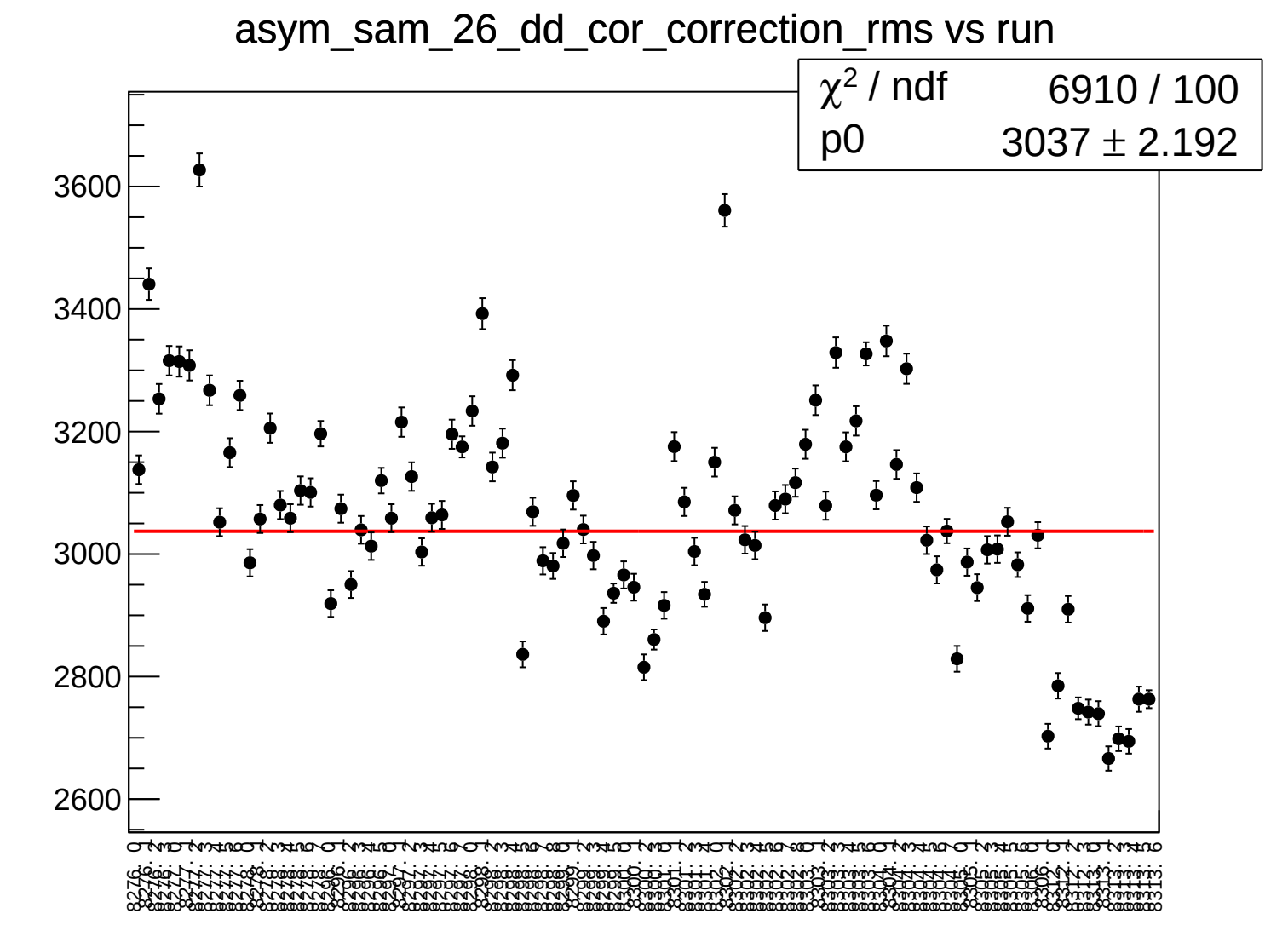

asym_sam_26_dd_reg_correction_rms vs run
χ² / ndf 6910 / 100
p0 3037 ± 2.192
3600
3400
3200
3000
2800
2600

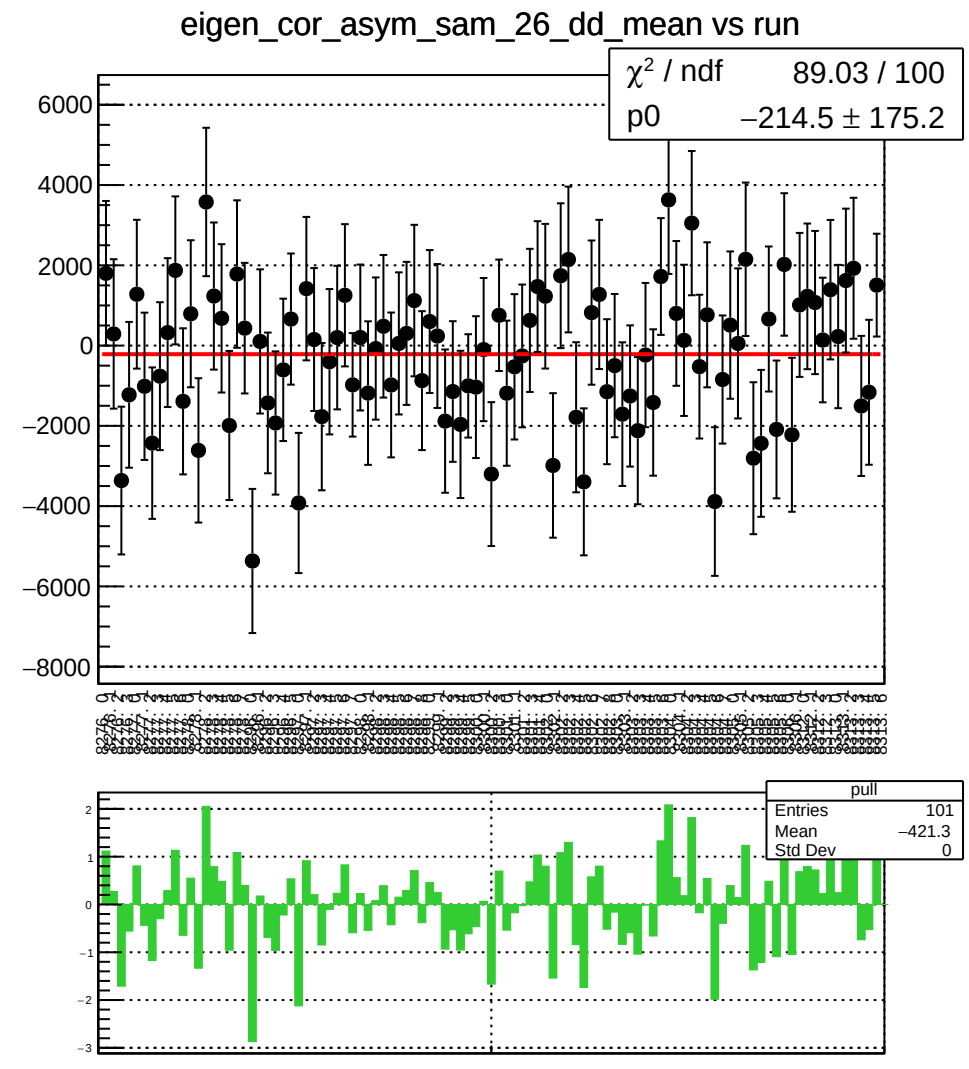

cor_asym_sam_26_dd_mean vs run
χ² / ndf 89.03 / 100
p0 −214.5 ± 175.2
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 101
Mean −421.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean −0.007376
Std Dev 0.9388
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

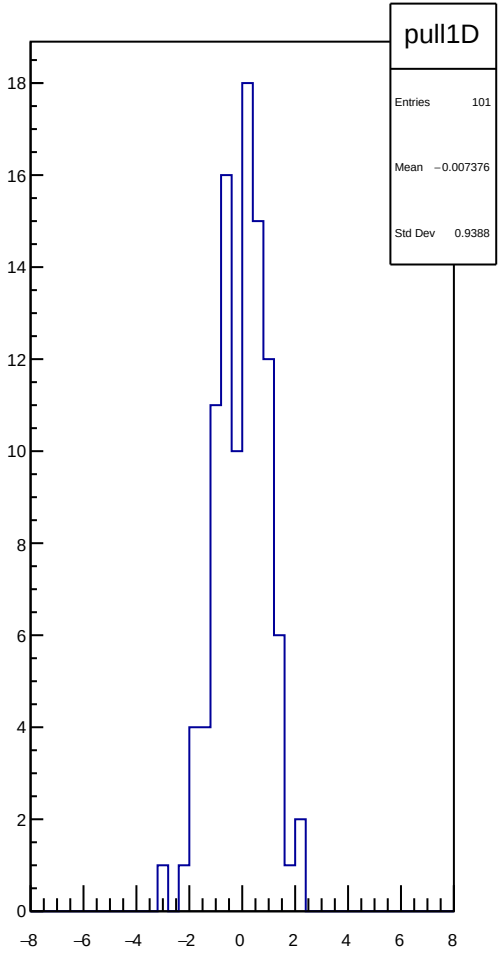

cor_asym_sam_26_dd_rms vs run
χ² / ndf 1079 / 100
p0 171.9 ± 0.1239
195
190
185
180
175
170
165

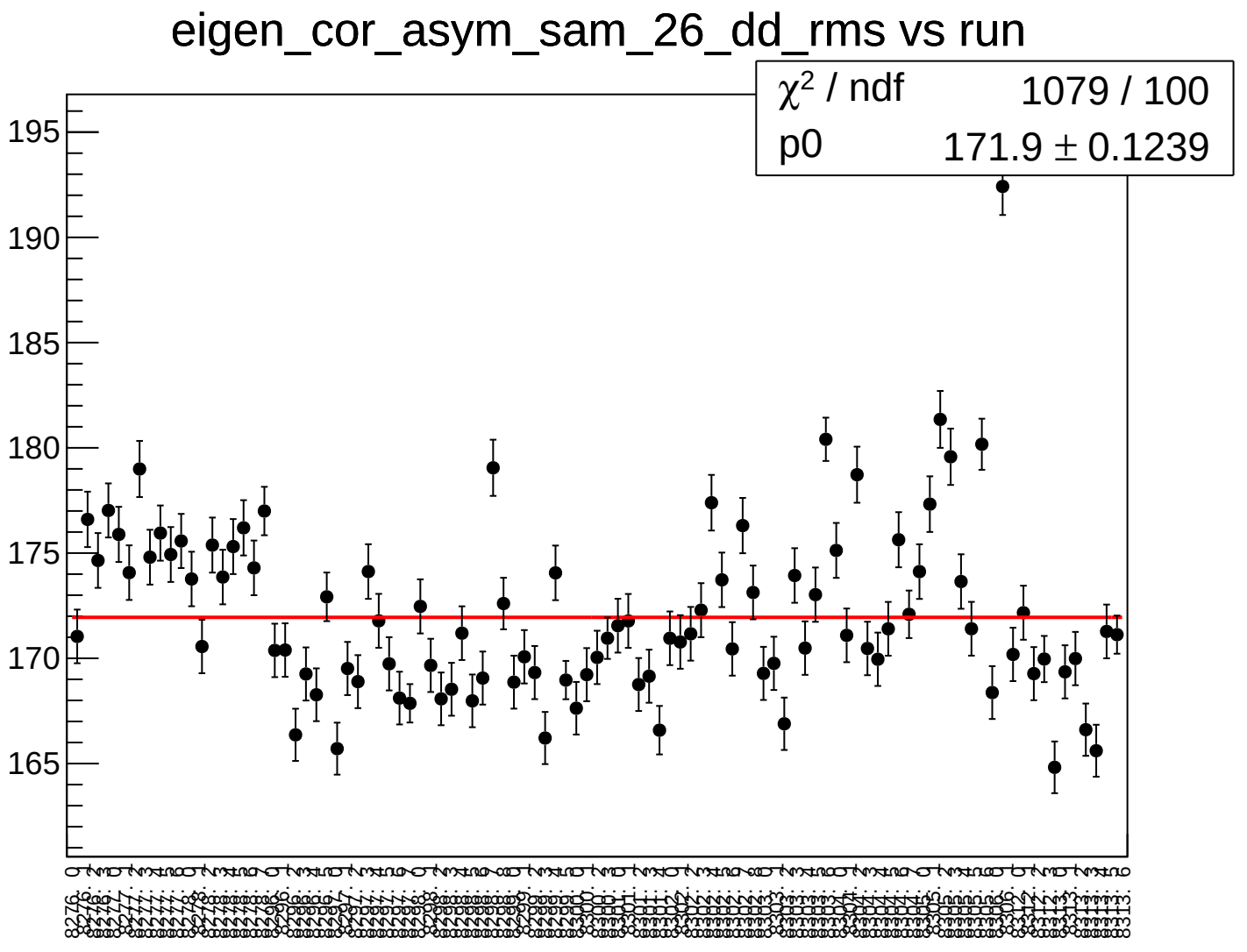

asym_sam_26_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 109.4 / 100
p0 850.9 ± 3099
150
100
50
0
−50
−100
pull
Entries 101
Mean −505.9
Std Dev 0
3
2
1
0
−1
−2

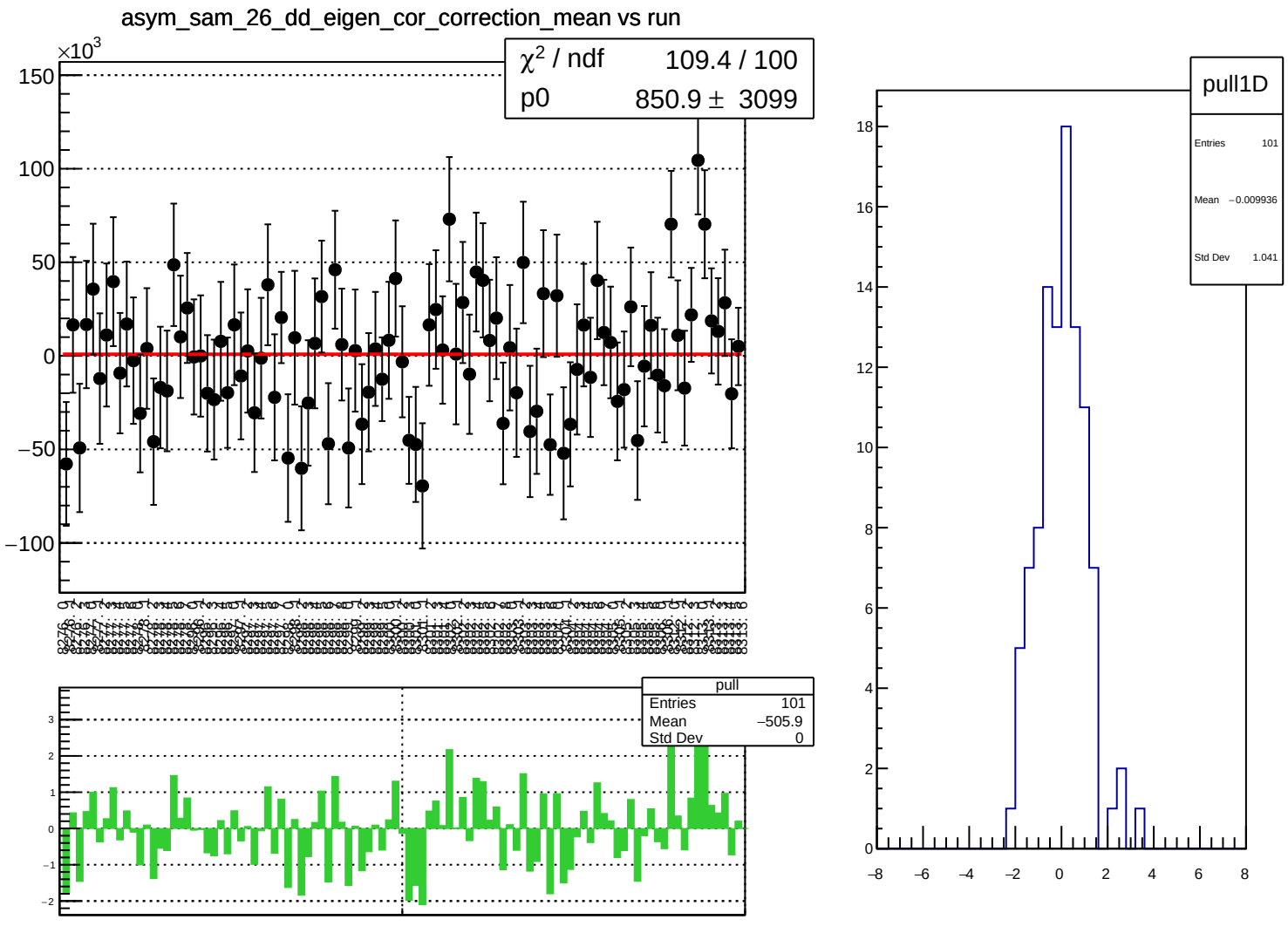

pull1D
Entries 101
Mean −0.009936
Std Dev 1.041
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

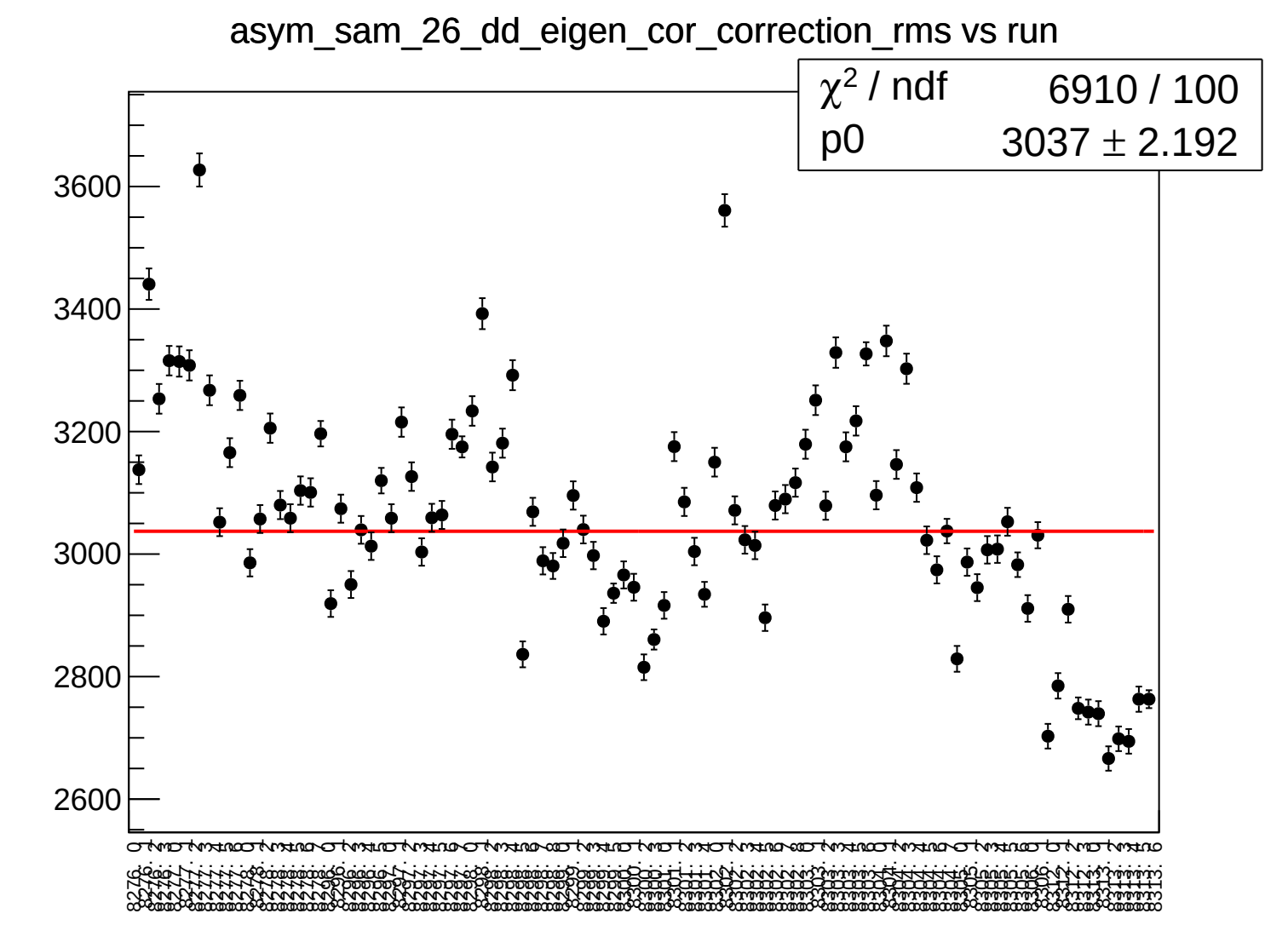

asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 6910 / 100
p0 3037 ± 2.192
3600
3400
3200
3000
2800
2600

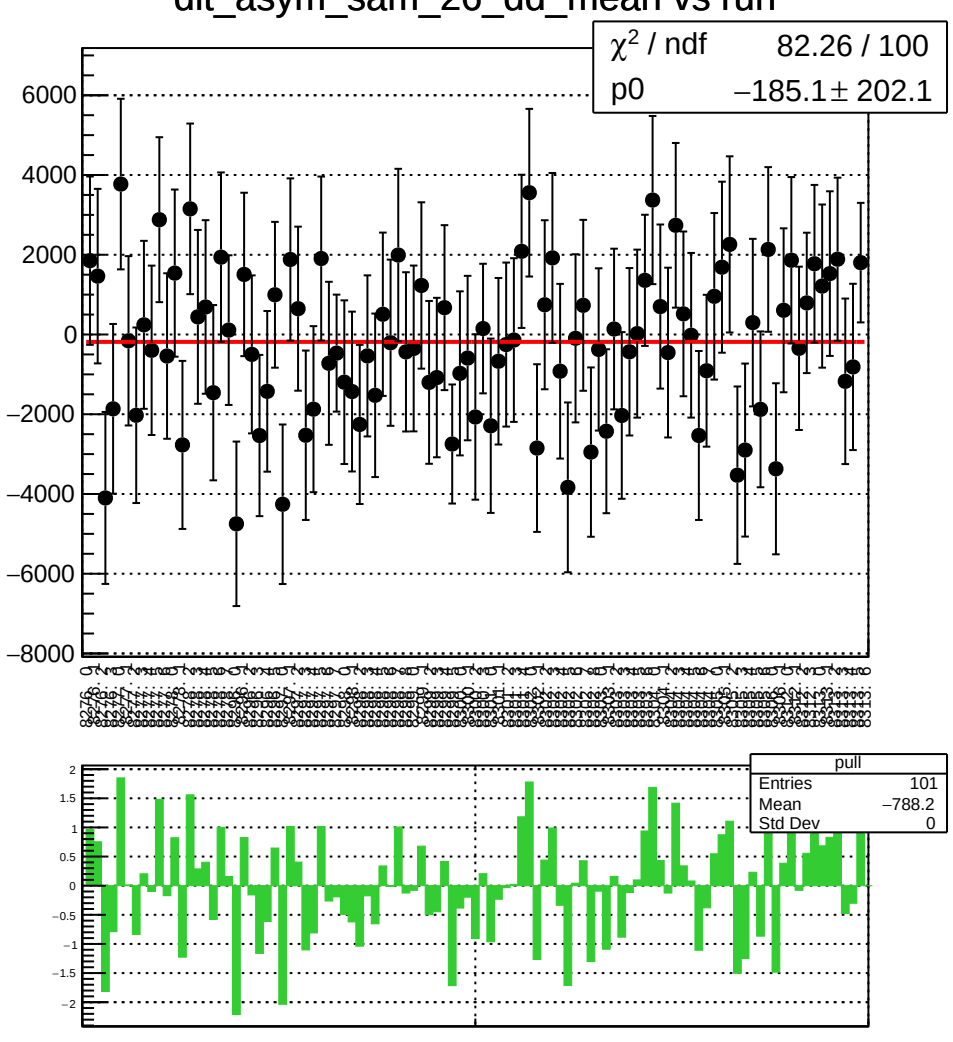

eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 89.03 / 100
p0 −214.5 ± 175.2
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 101
Mean −421.3
Std Dev 0
2
1
0
−1
−2
−3

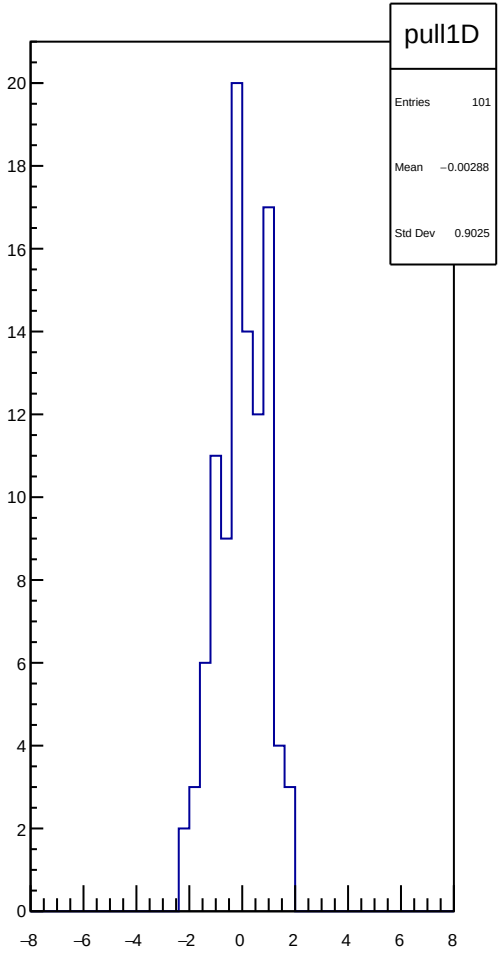

pull1D
Entries 101
Mean −0.007376
Std Dev 0.9388
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

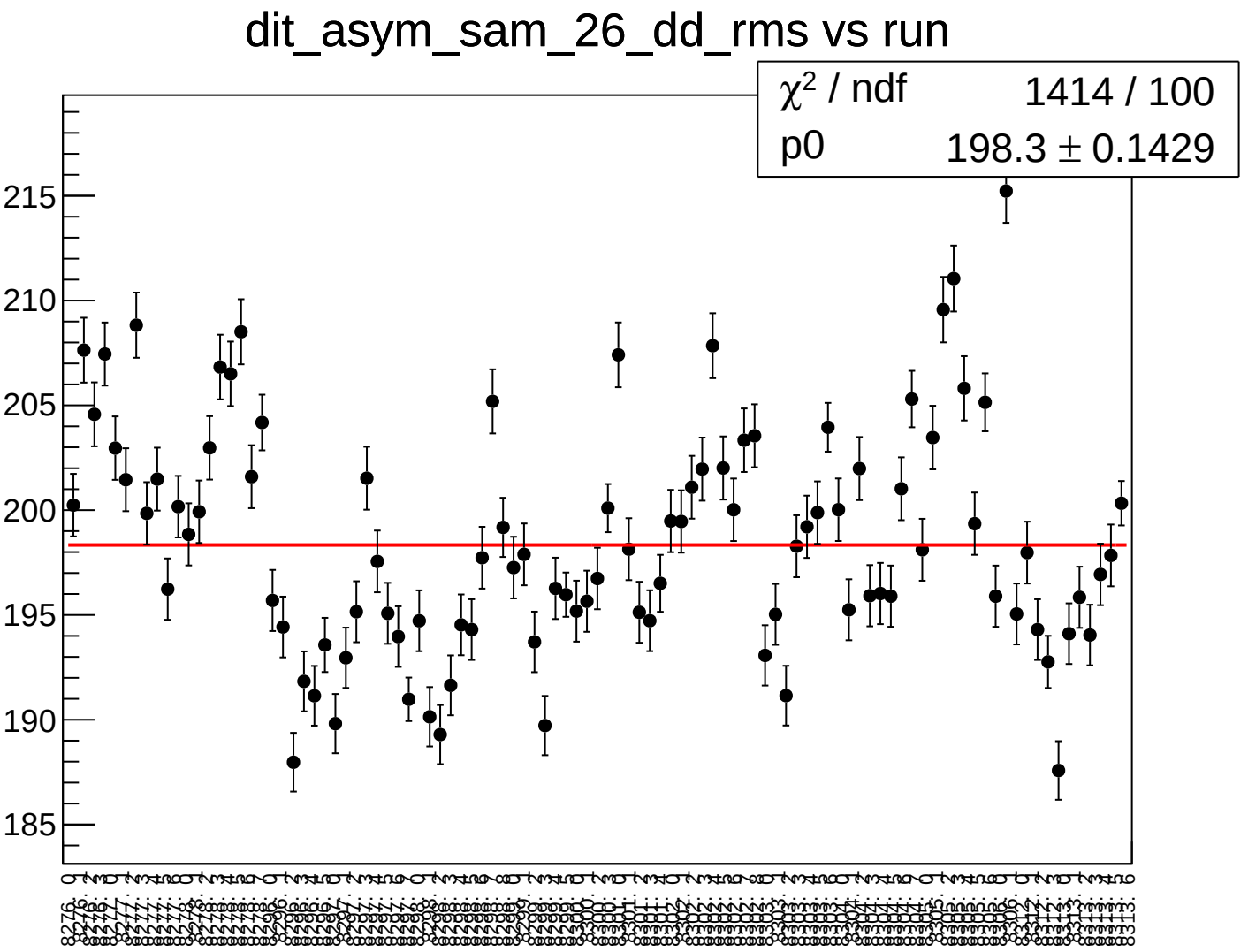

eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 1079 / 100
p0 171.9 ± 0.1239
195
190
185
180
175
170
165

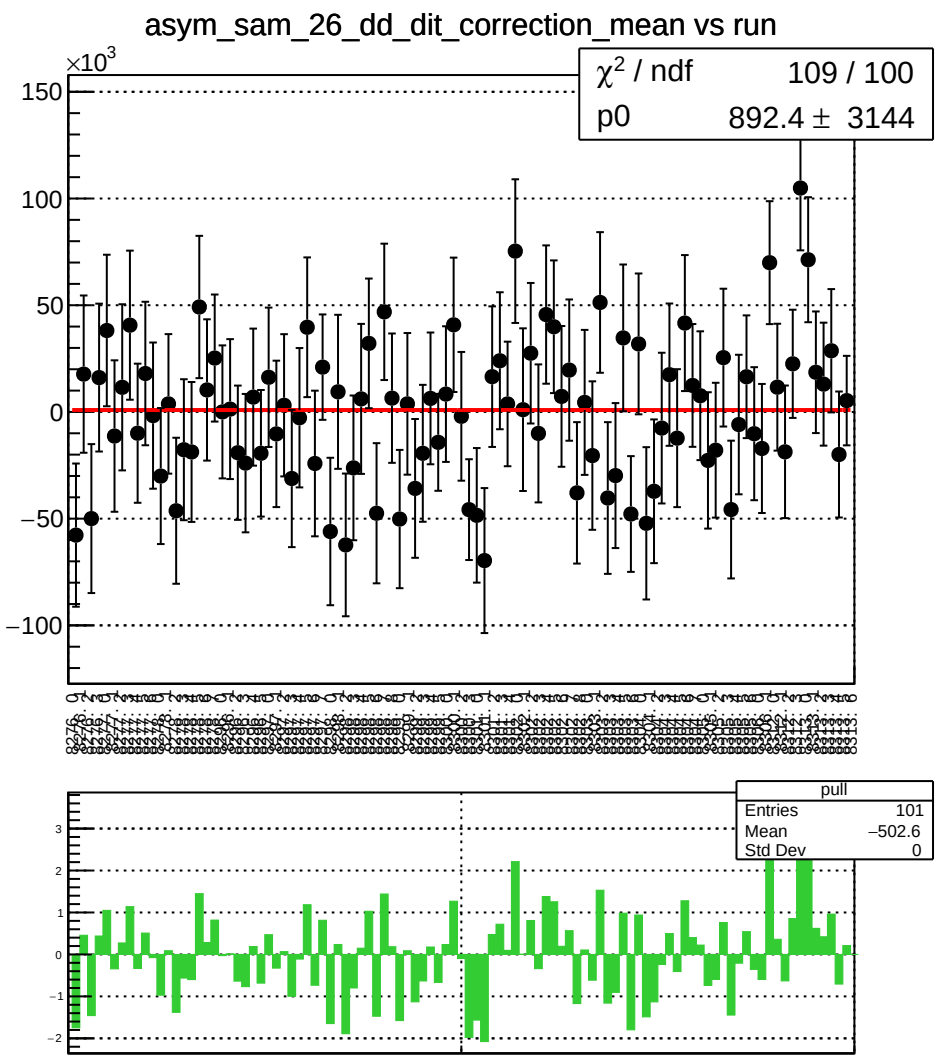

asym_sam_26_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 109.4 / 100
p0 850.9 ± 3099
150
100
50
0
−50
−100
pull
Entries 101
Mean −505.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.009936
Std Dev 1.041
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

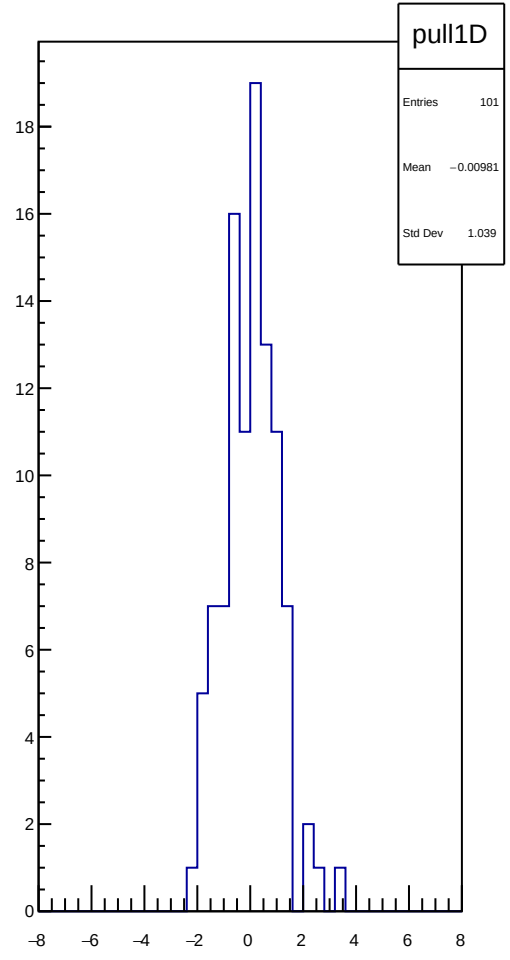

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 6910 / 100
p0 3037 ± 2.192
3600
3400
3200
3000
2800
2600

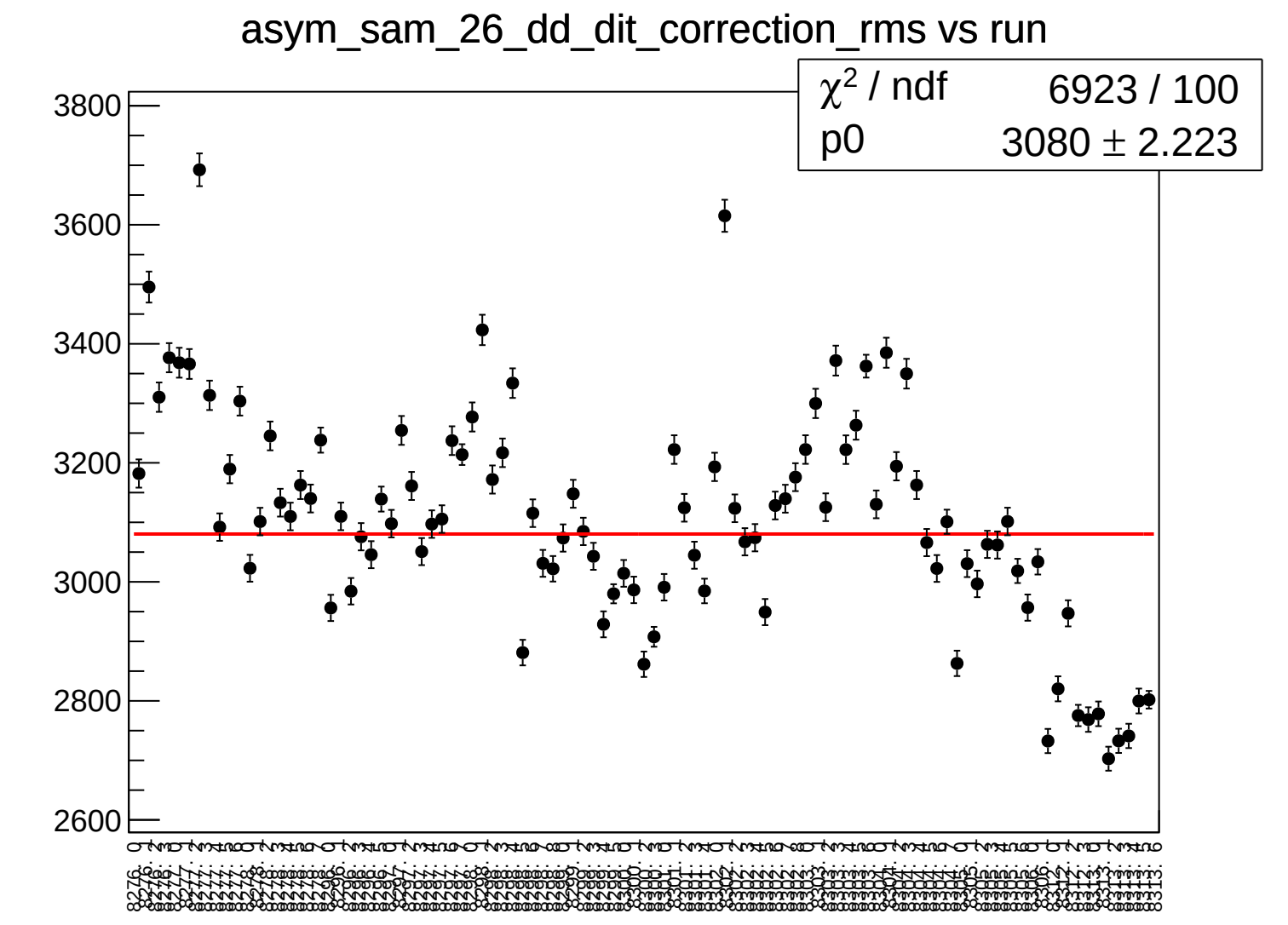

dit_asym_sam_26_dd_mean vs run
χ² / ndf 82.26 / 100
p0 −185.1 ± 202.1
pull
Entries 101
Mean −788.2
Std Dev 0

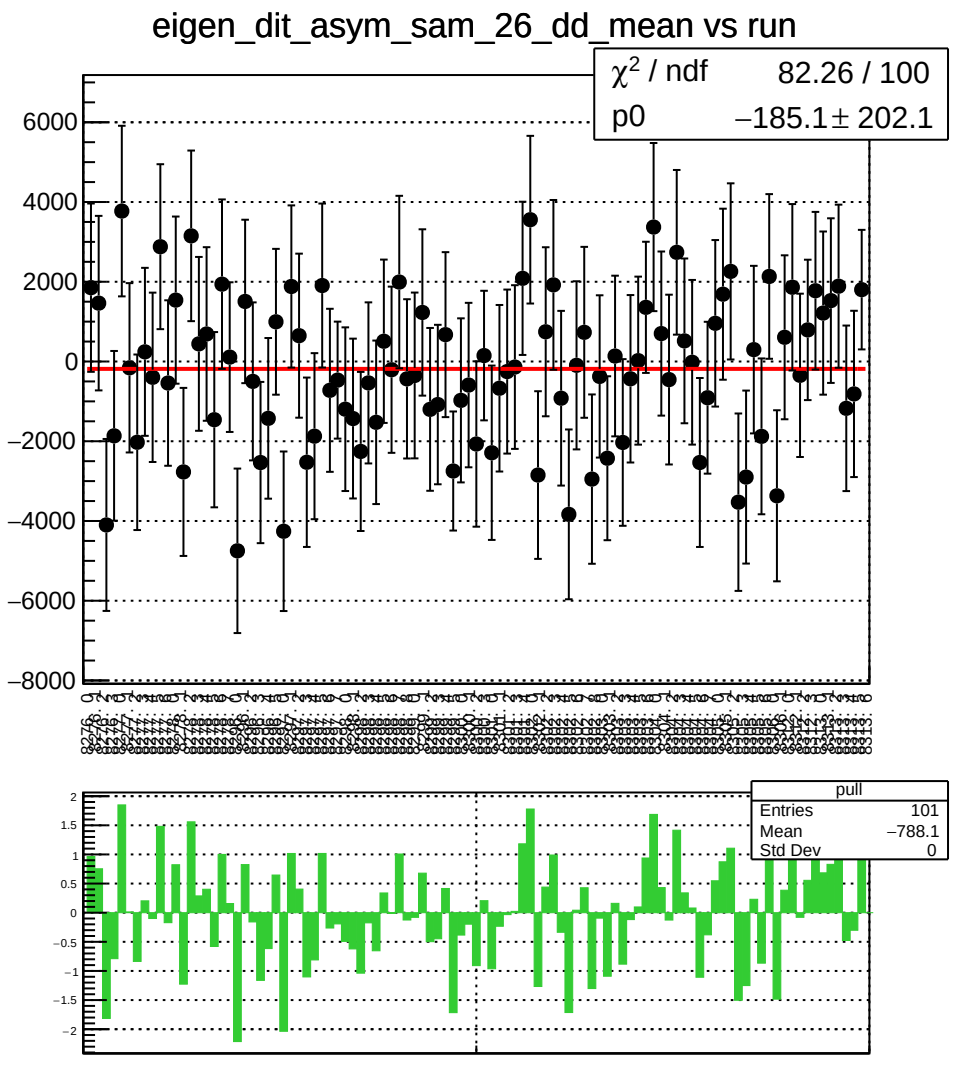

pull1D
Entries 101
Mean −0.00288
Std Dev 0.9025

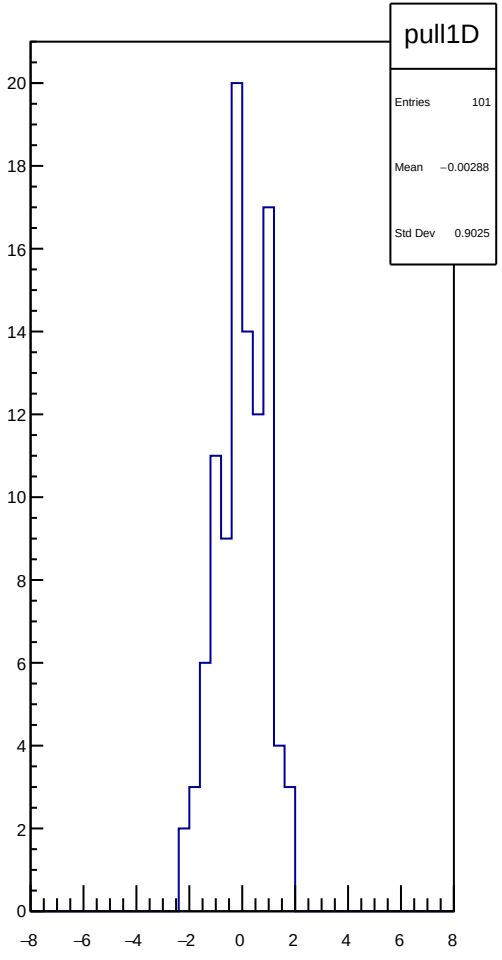

dit_asym_sam_26_dd_rms vs run
χ² / ndf 1414 / 100
p0 198.3 ± 0.1429
215
210
205
200
195
190
185

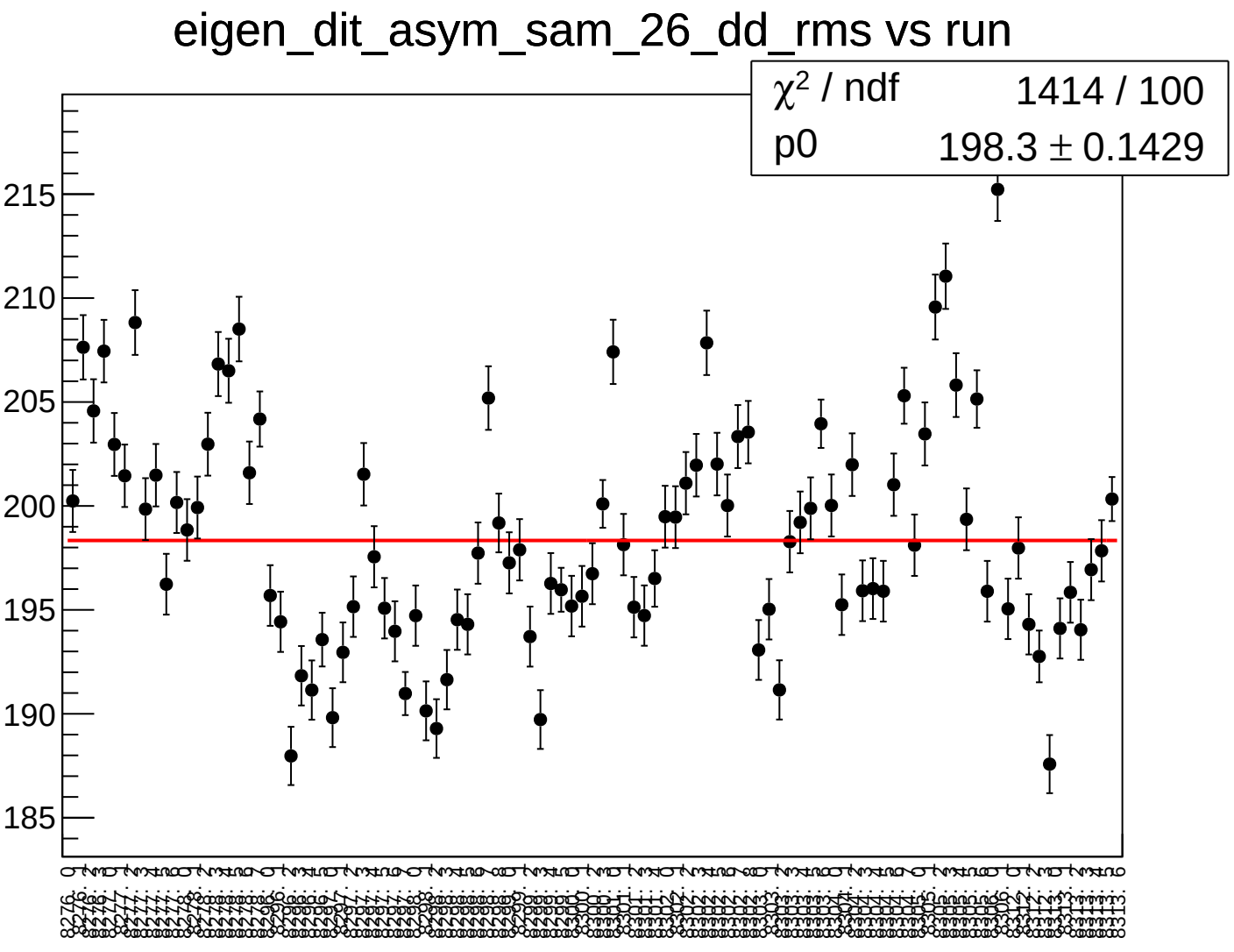

asym_sam_26_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 109 / 100
p0 892.4 ± 3144
150
100
50
0
−50
−100
pull
Entries 101
Mean −502.6
Std Dev 0
3
2
1
0
−1
−2

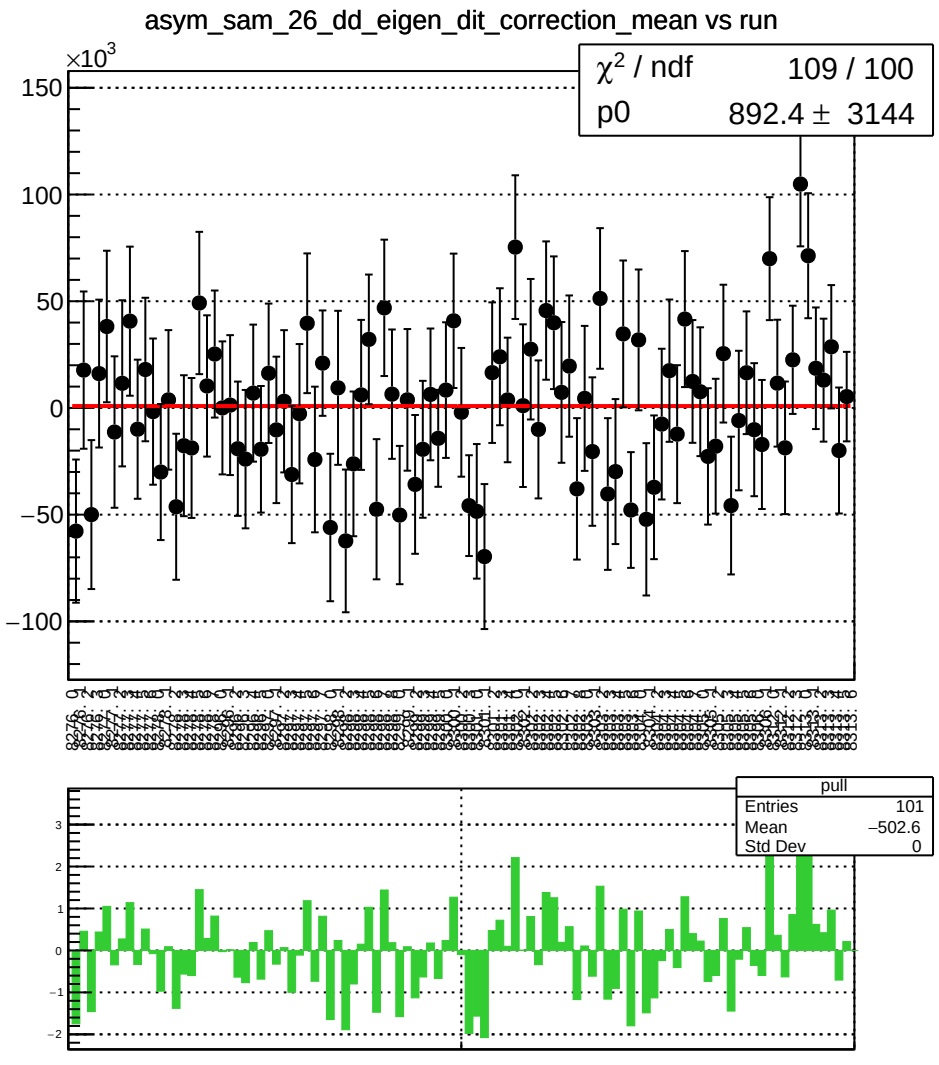

pull1D
Entries 101
Mean −0.00981
Std Dev 1.039
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

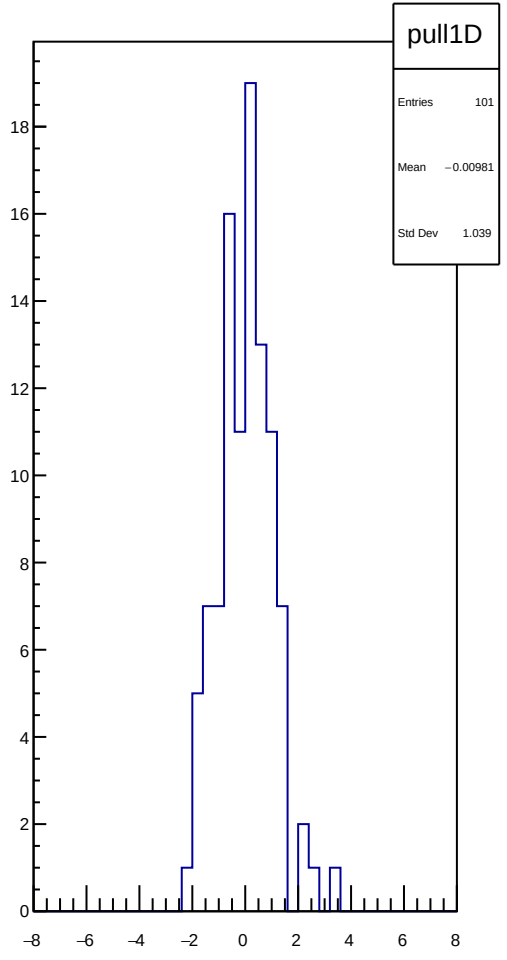

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 6923 / 100
p0 3080 ± 2.223
3800
3600
3400
3200
3000
2800
2600

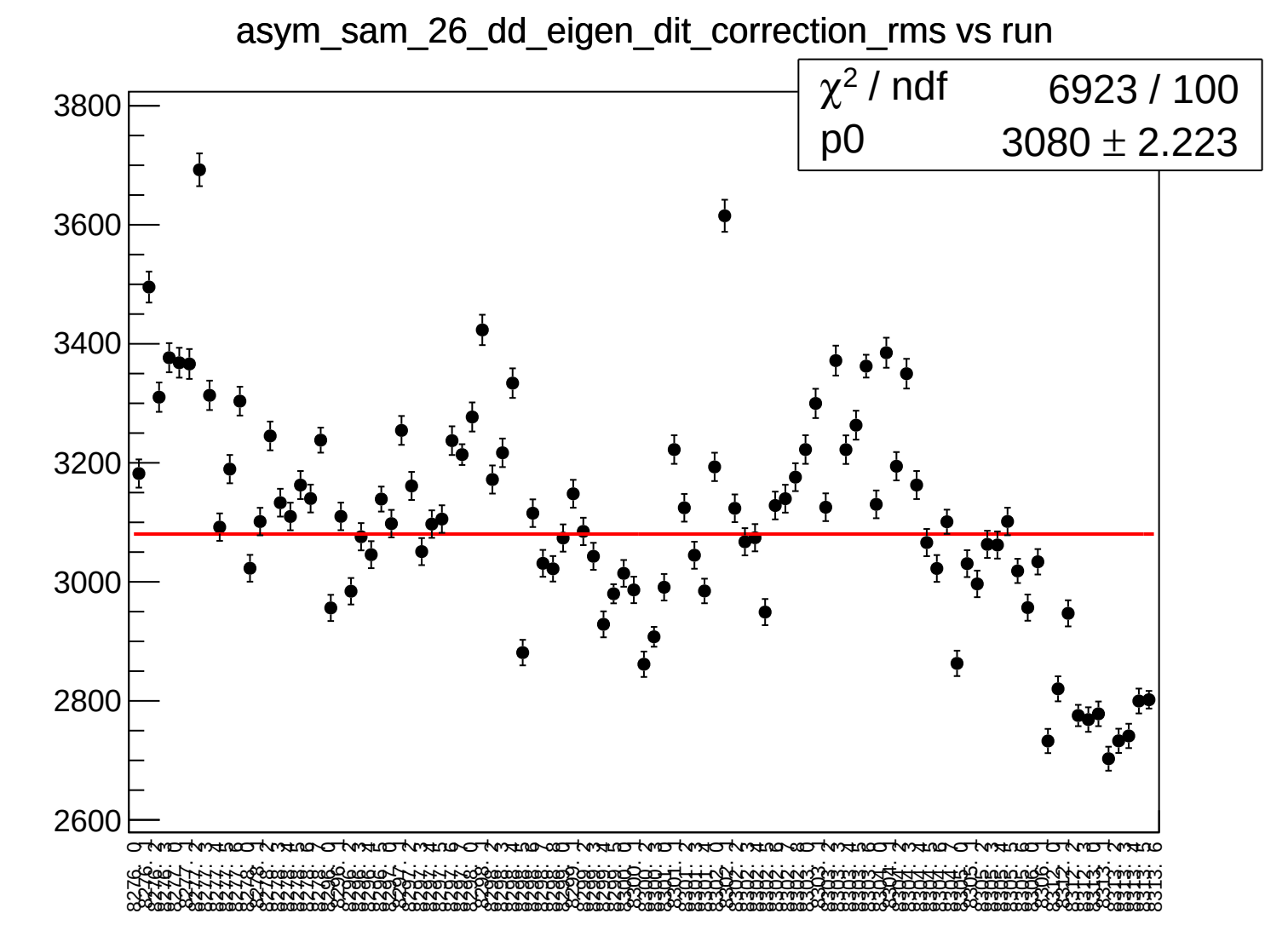

eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 82.26 / 100
p0 −185.1 ± 202.1
pull
Entries 101
Mean −788.1
Std Dev 0

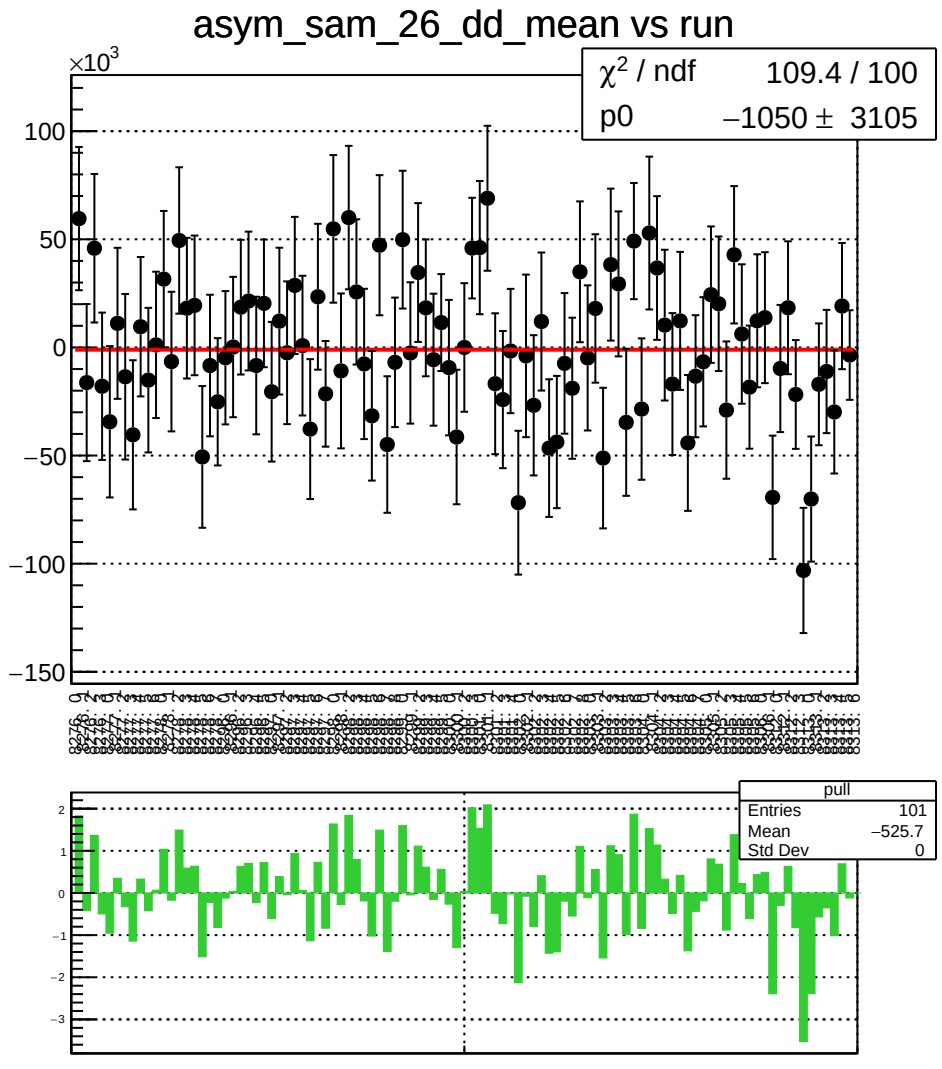

pull1D
Entries 101
Mean −0.00288
Std Dev 0.9025

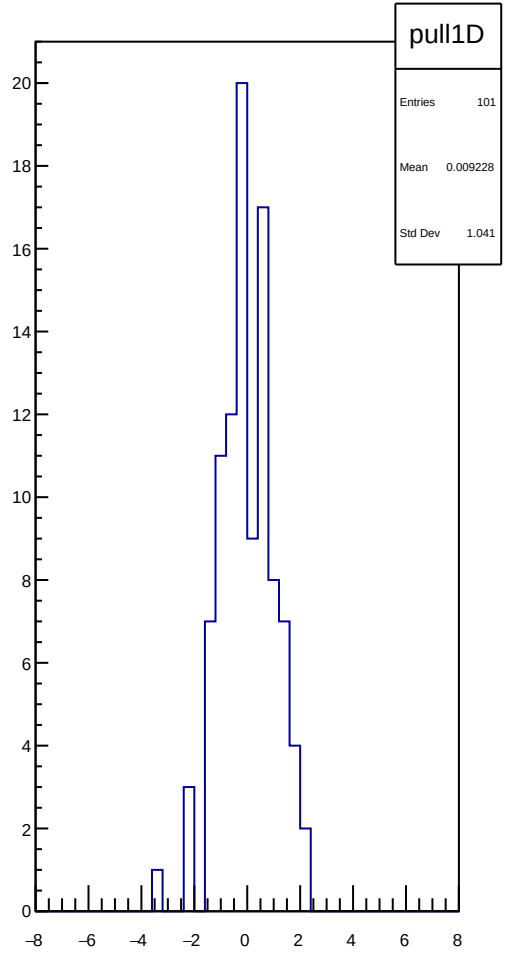

eigen_dit_asym_sam_26_dd_rms vs run
χ² / ndf 1414 / 100
p0 198.3 ± 0.1429
215
210
205
200
195
190
185

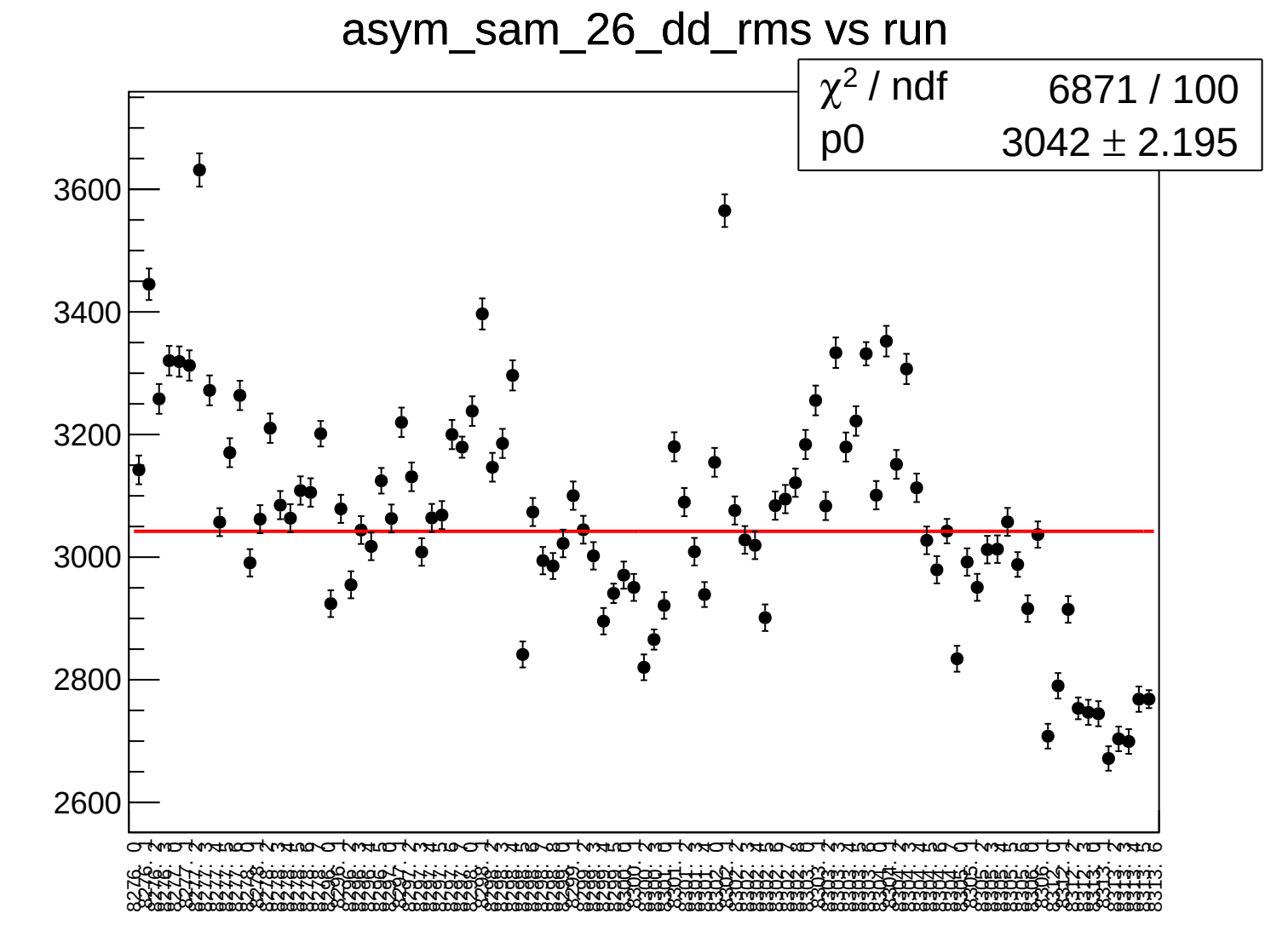

asym_sam_26_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 109 / 100
p0 892.4 ± 3144
150
100
50
0
−50
−100
pull
Entries 101
Mean −502.6
Std Dev 0
3
2
1
0
−1
−2

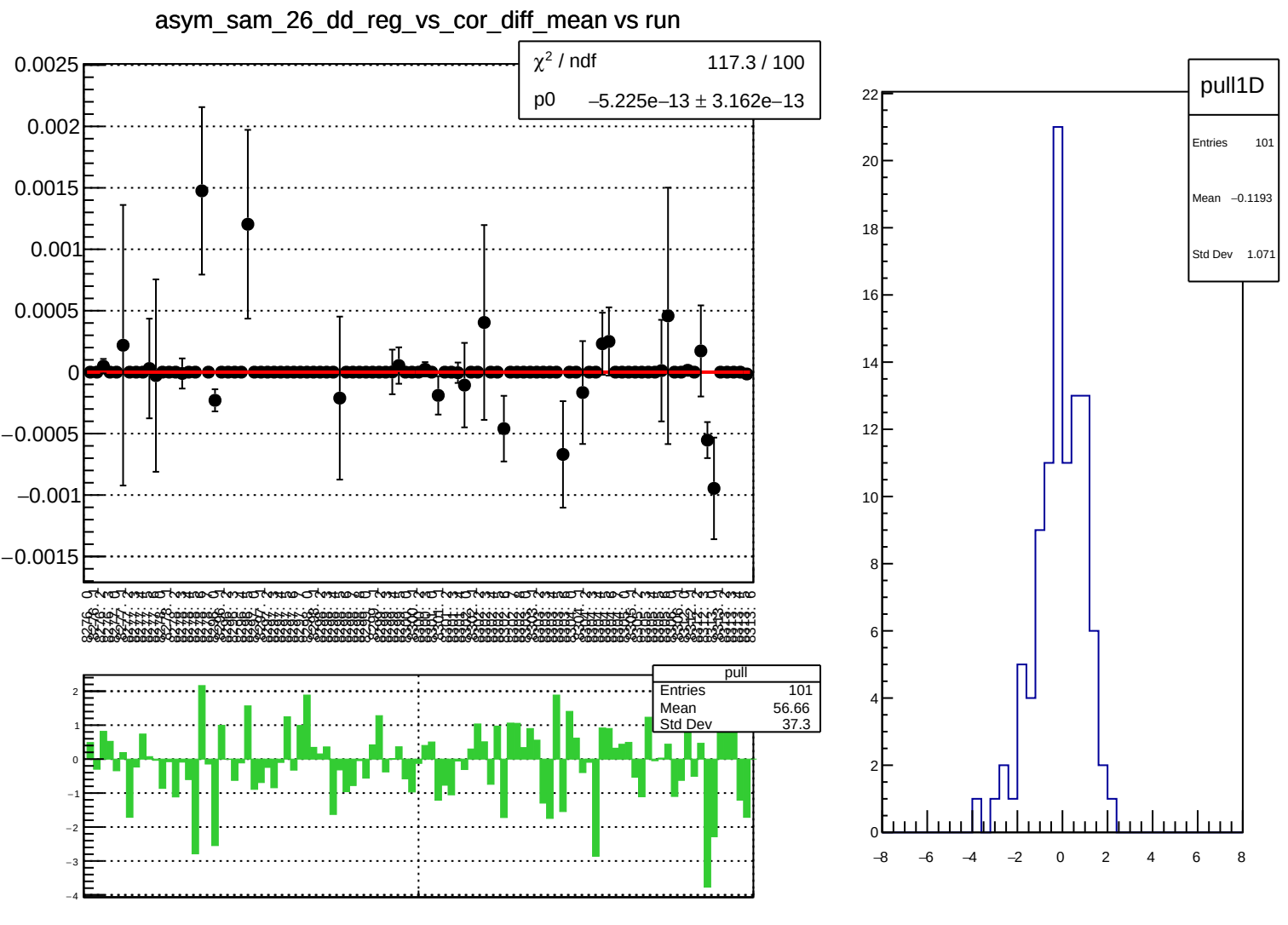

pull1D
Entries 101
Mean −0.00981
Std Dev 1.039
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

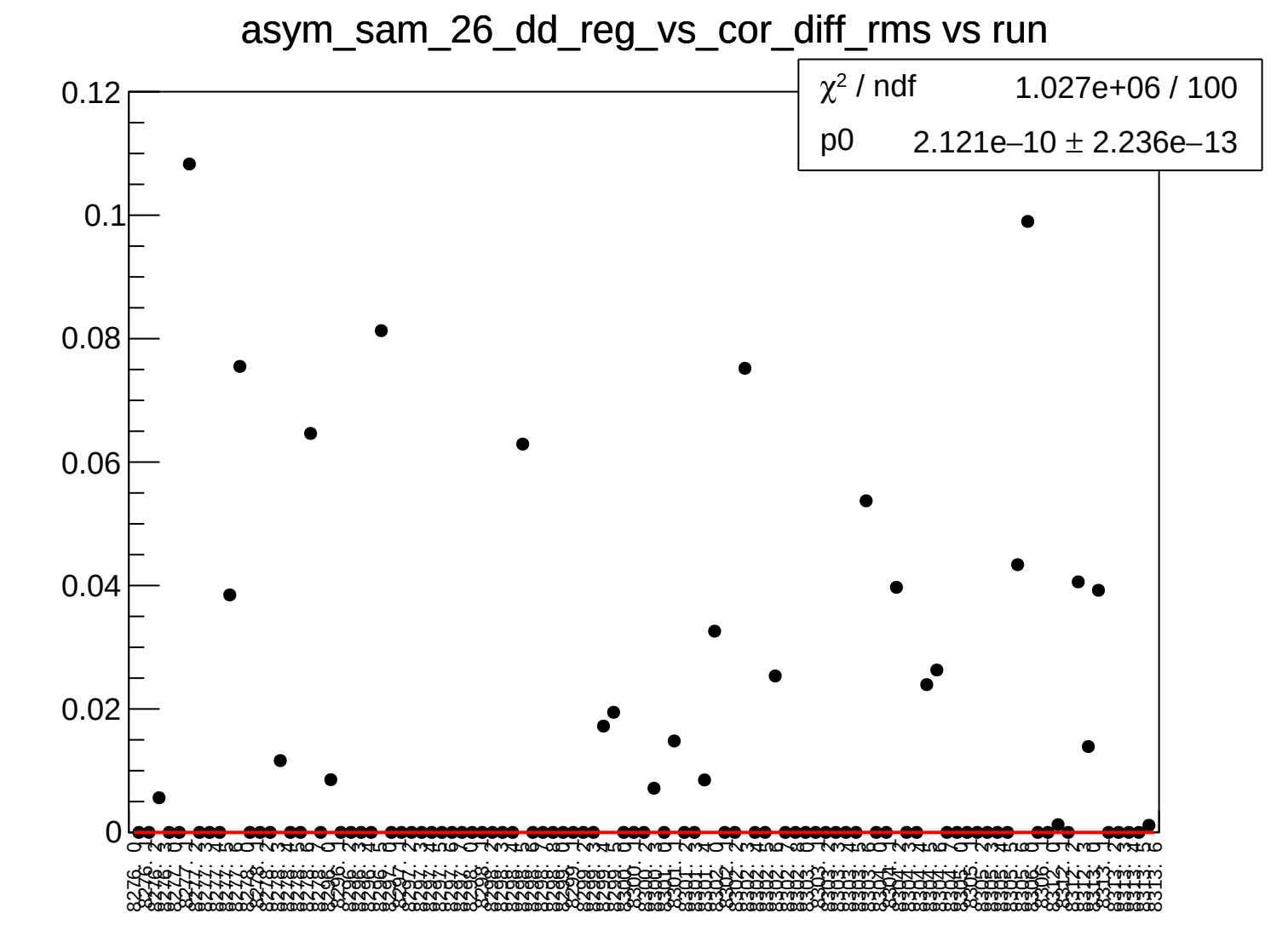

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 6923 / 100
p0 3080 ± 2.223
3800
3600
3400
3200
3000
2800
2600

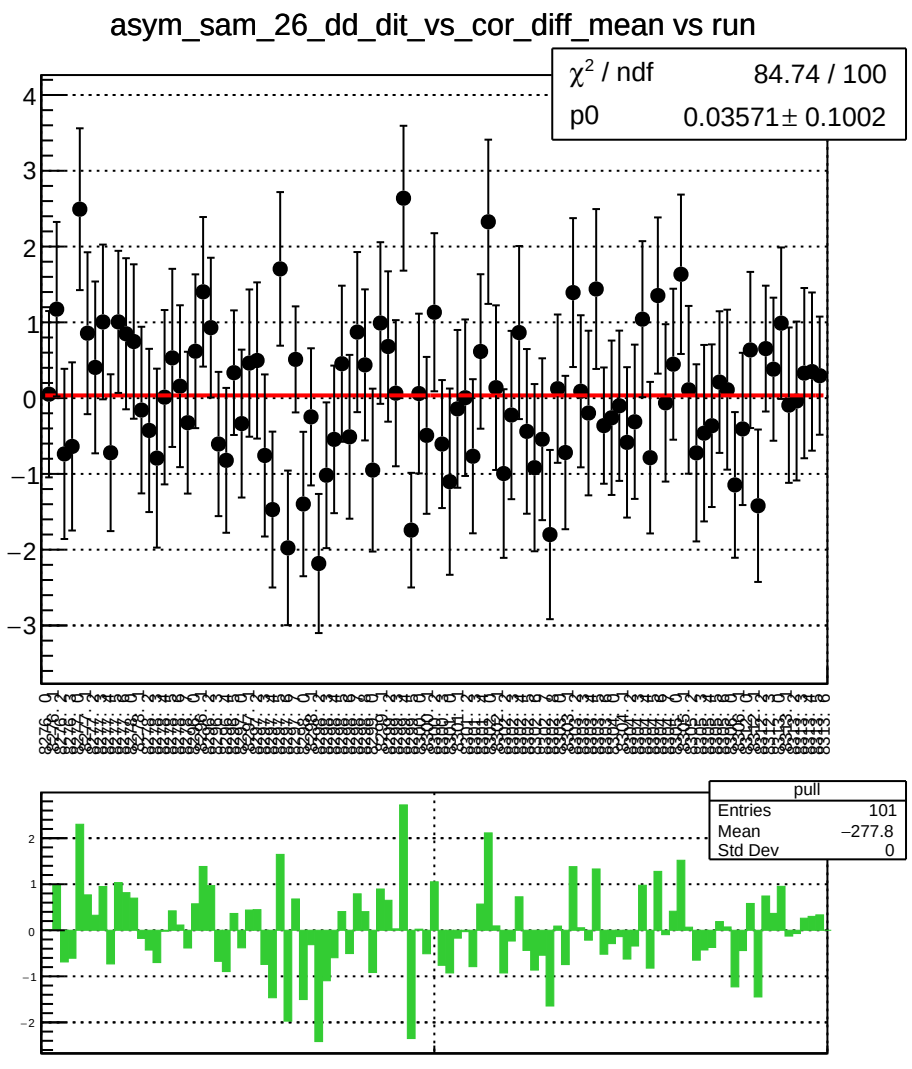

asym_sam_26_dd_mean vs run
×10^3
χ^2 / ndf 109.4 / 100
p0 −1050 ± 3105
100
50
0
−50
−100
−150
pull
Entries 101
Mean −525.7
Std Dev 0
2
1
0
−1
−2
−3

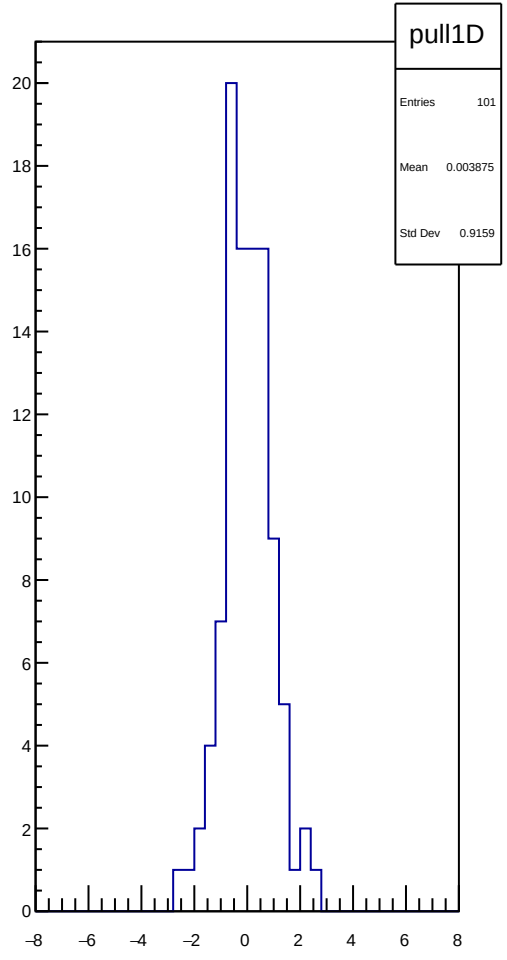

pull1D
Entries 101
Mean 0.009228
Std Dev 1.041
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

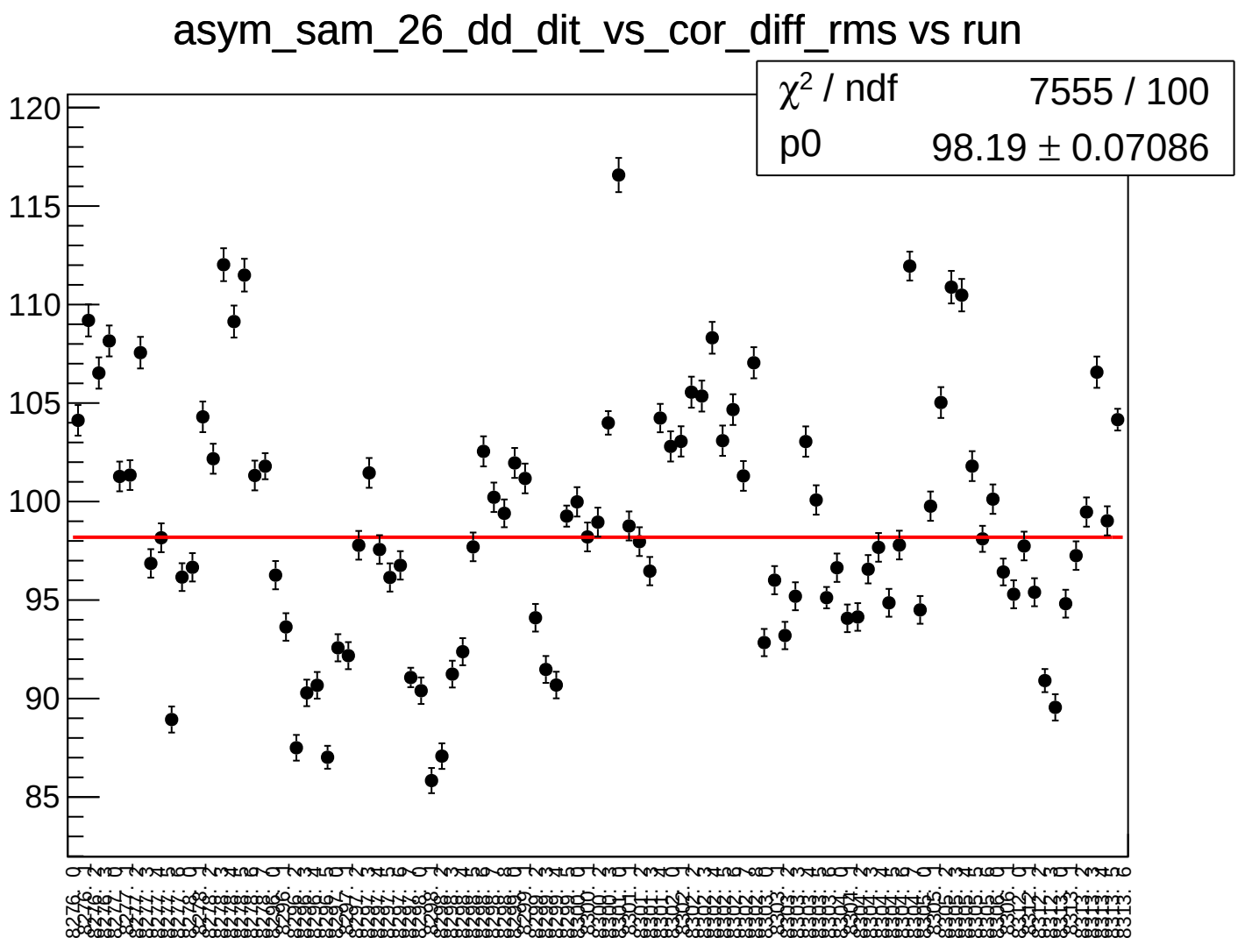

asym_sam_26_dd_rms vs run
χ² / ndf 6871 / 100
p0 3042 ± 2.195
3600
3400
3200
3000
2800
2600

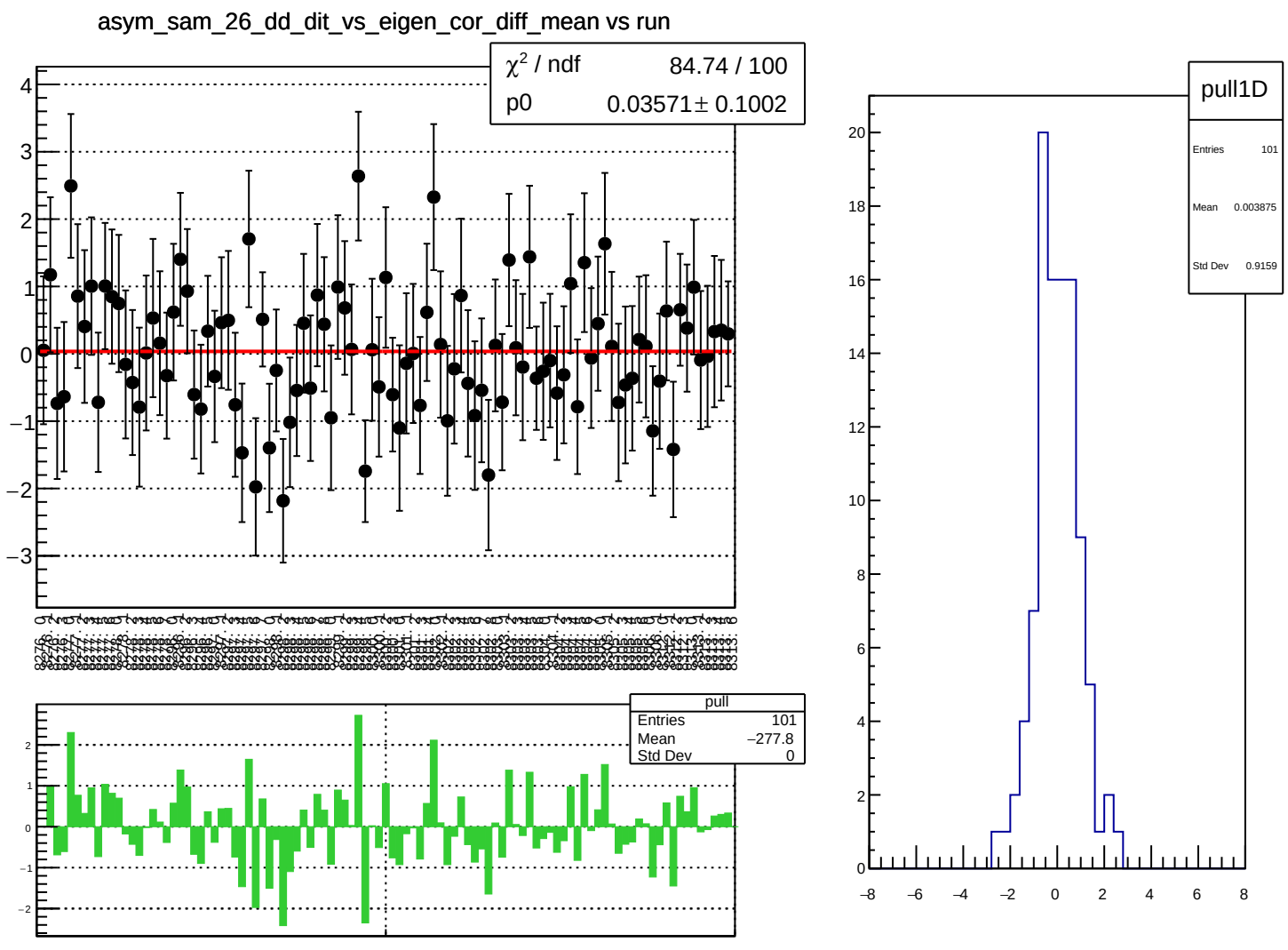

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 117.3 / 100
p0 −5.225e−13 ± 3.162e−13
0.0025
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 101
Mean 56.66
Std Dev 37.3
2
1
0
−1
−2
−3
−4
pull1D
Entries 101
Mean −0.1193
Std Dev 1.071
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

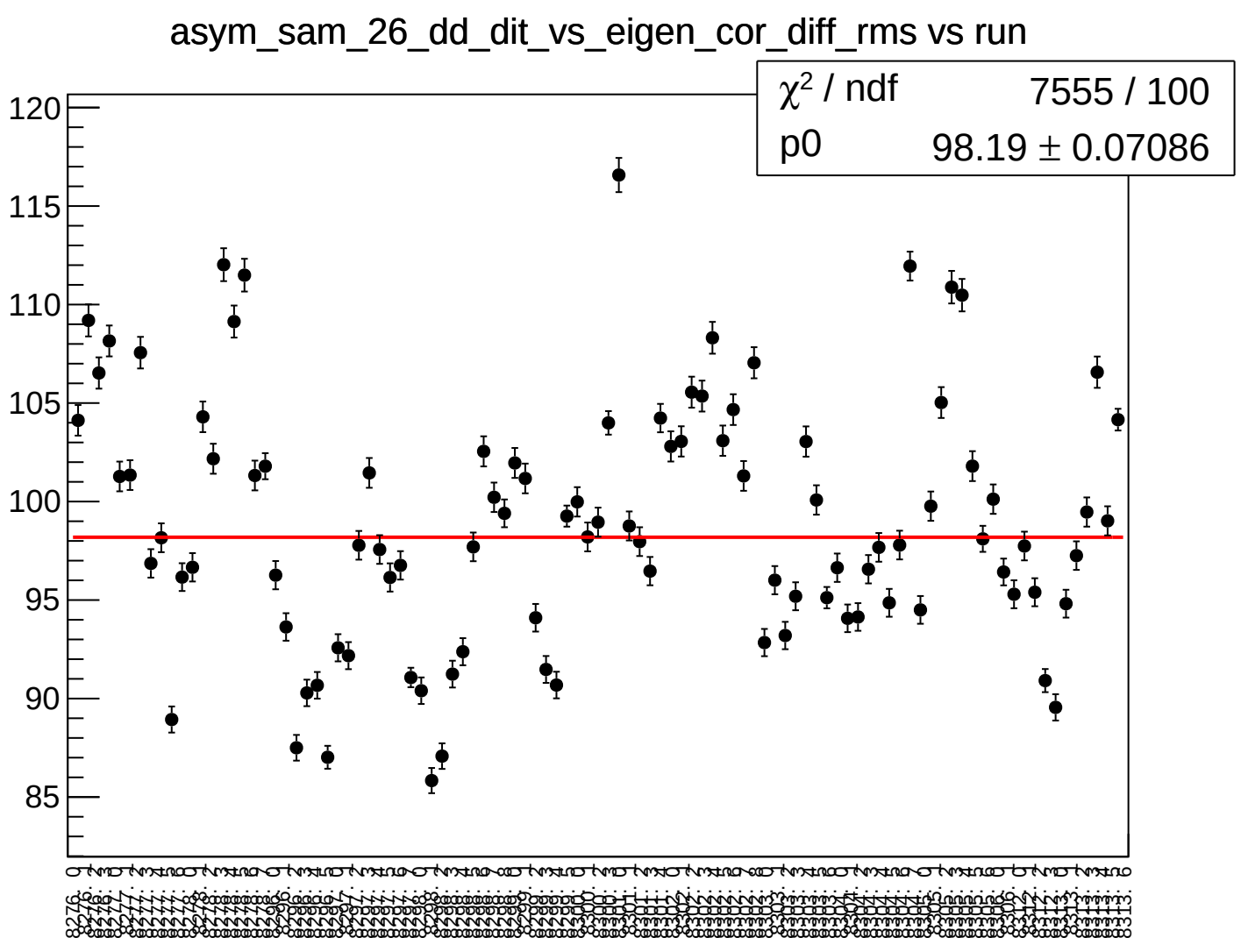

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.027e+06 / 100
p0 2.121e−10 ± 2.236e−13
0.12
0.1
0.08
0.06
0.04
0.02
0

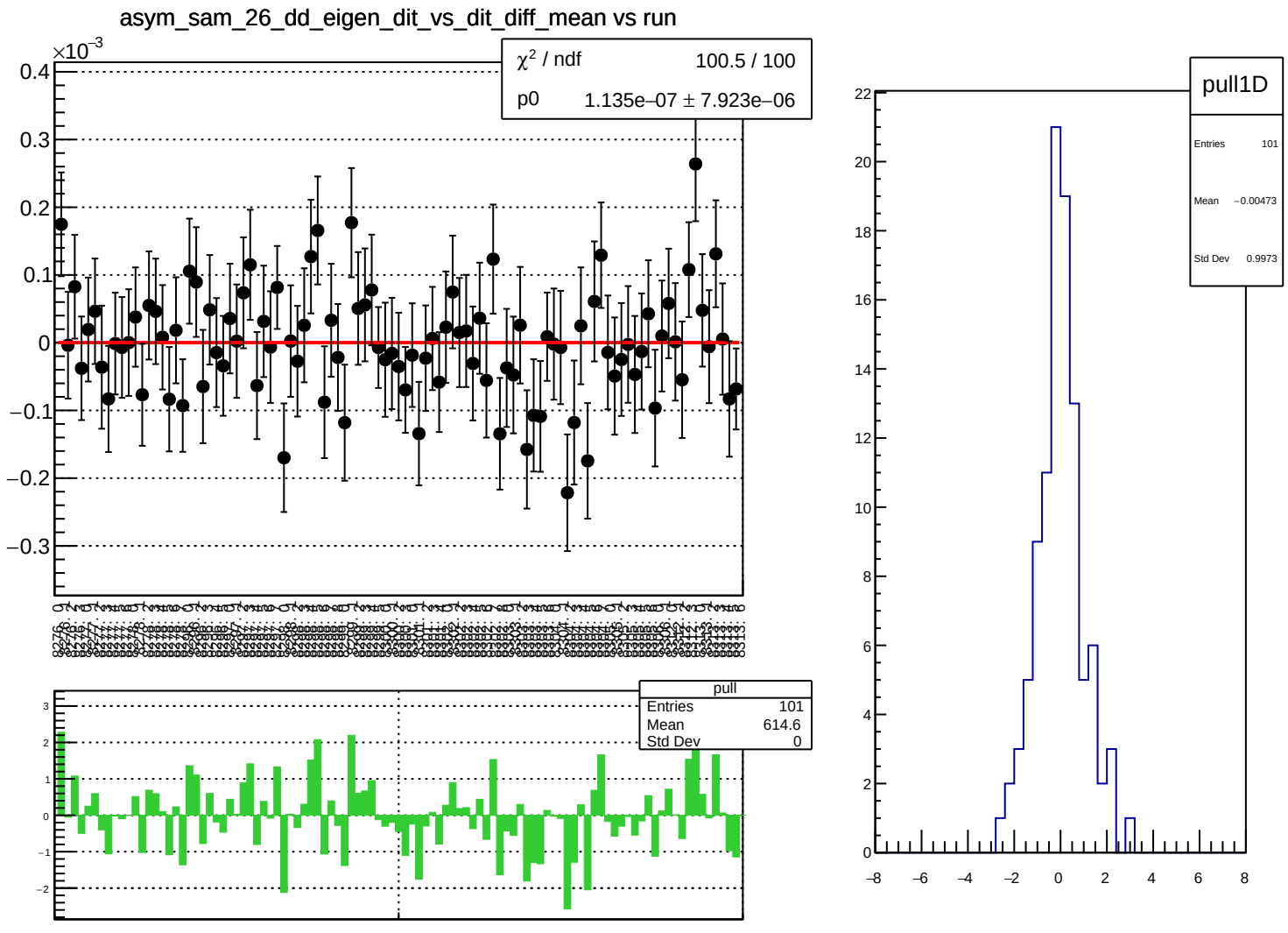

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 84.74 / 100
p0 0.03571 ± 0.1002
pull
Entries 101
Mean −277.8
Std Dev 0

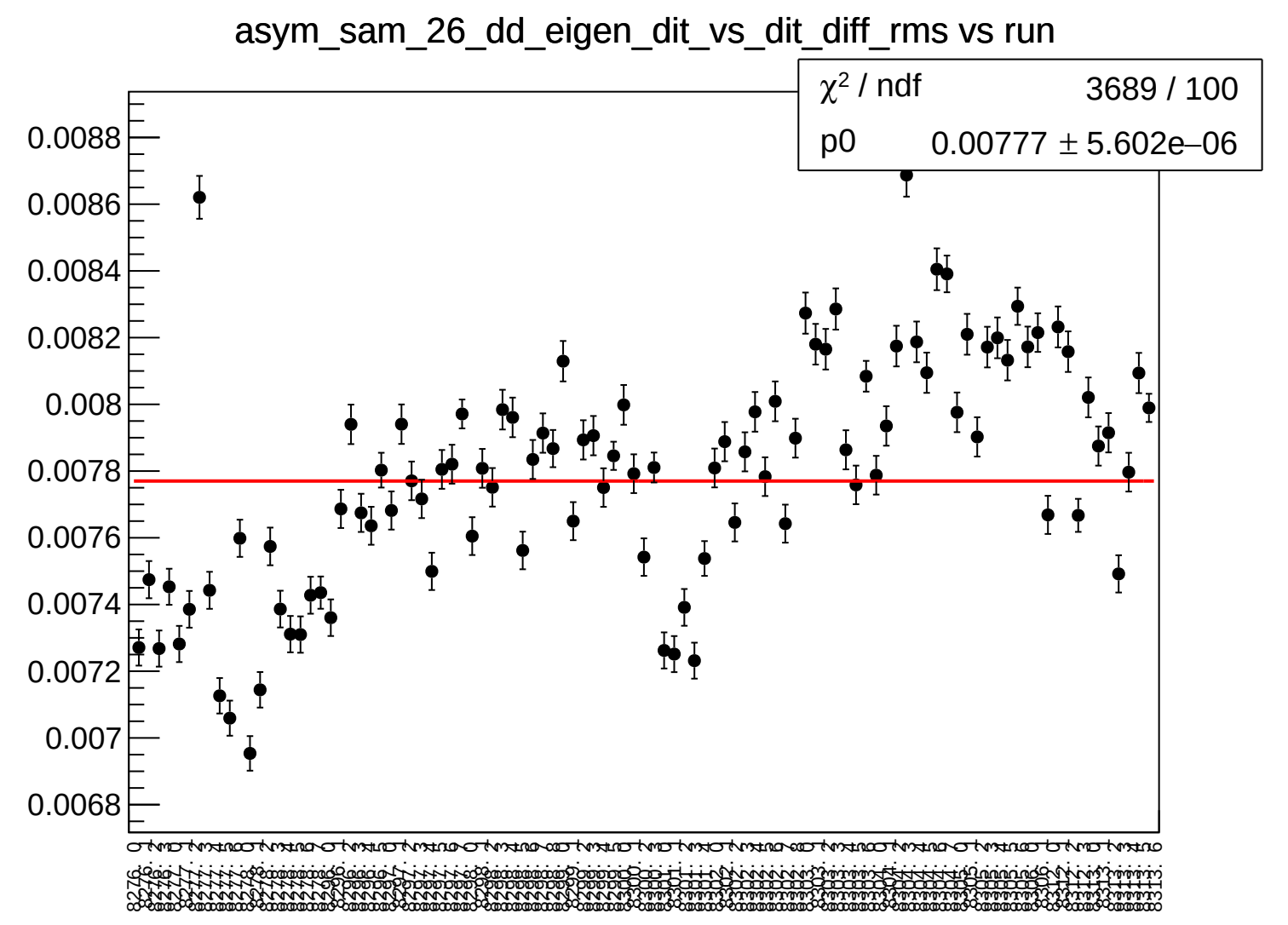

pull1D
Entries 101
Mean 0.003875
Std Dev 0.9159

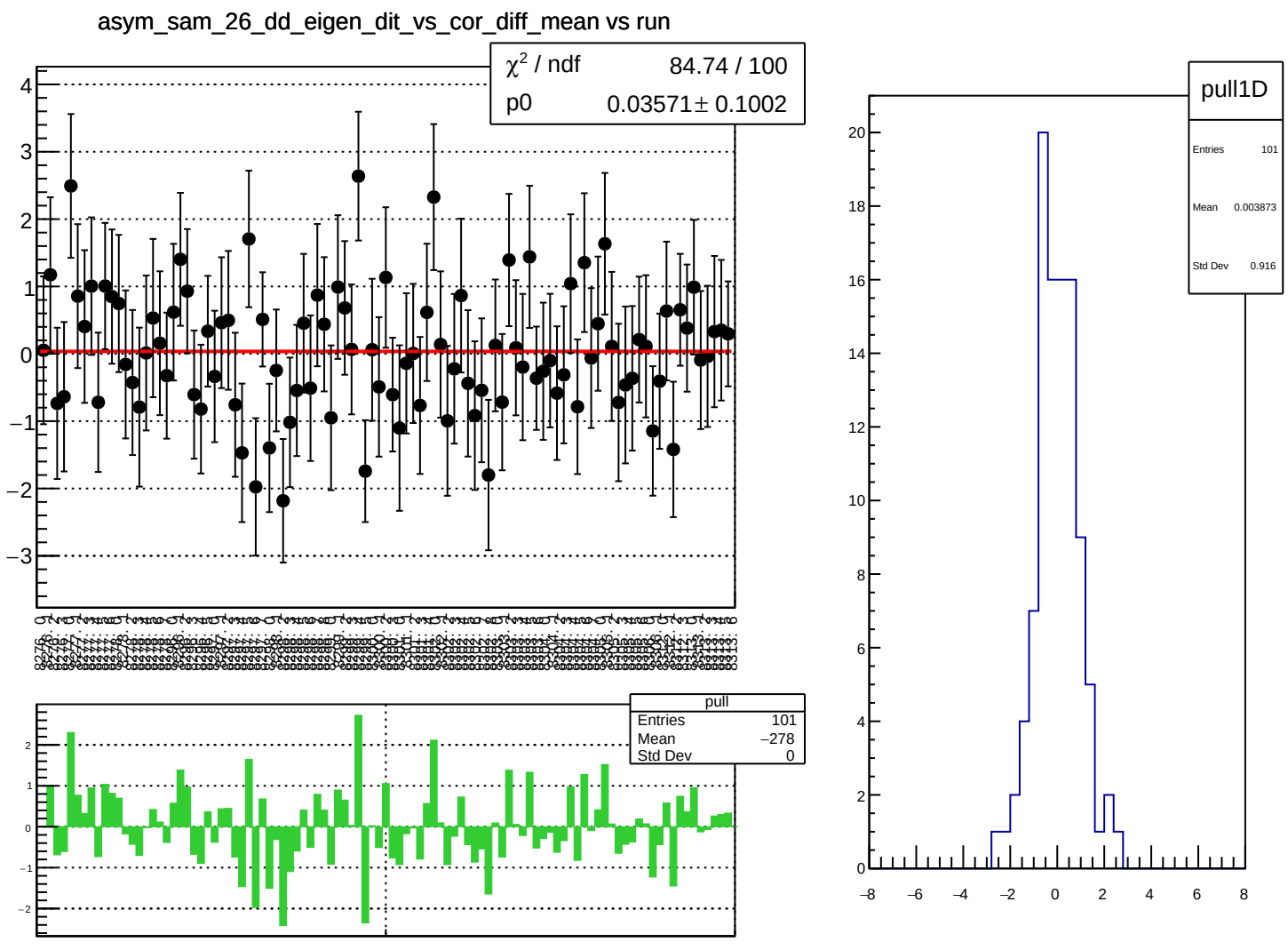

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7555 / 100
p0 98.19 ± 0.07086
120
115
110
105
100
95
90
85

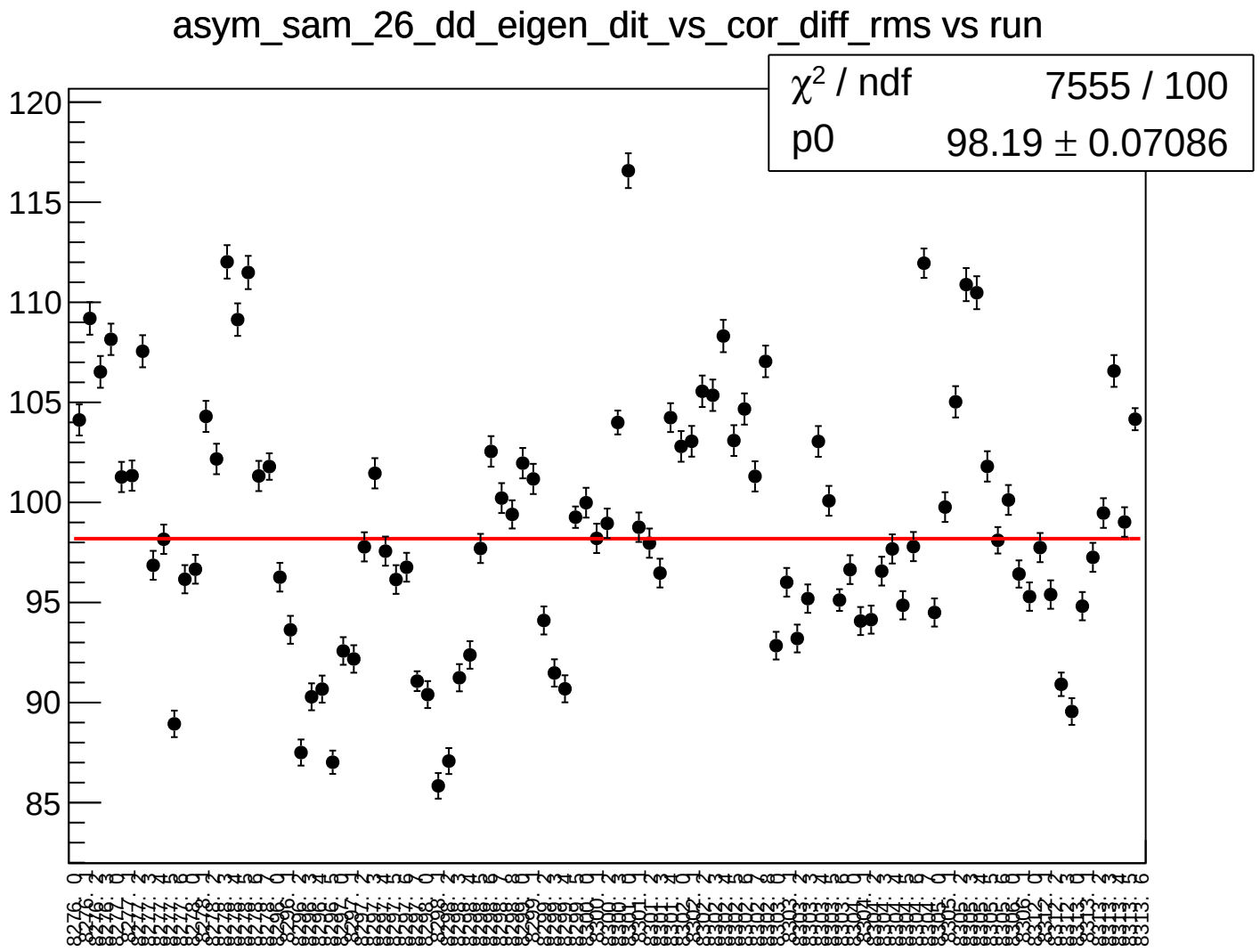

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.74 / 100
p0 0.03571 ± 0.1002
pull
Entries 101
Mean −277.8
Std Dev 0
pull1D
Entries 101
Mean 0.003875
Std Dev 0.9159

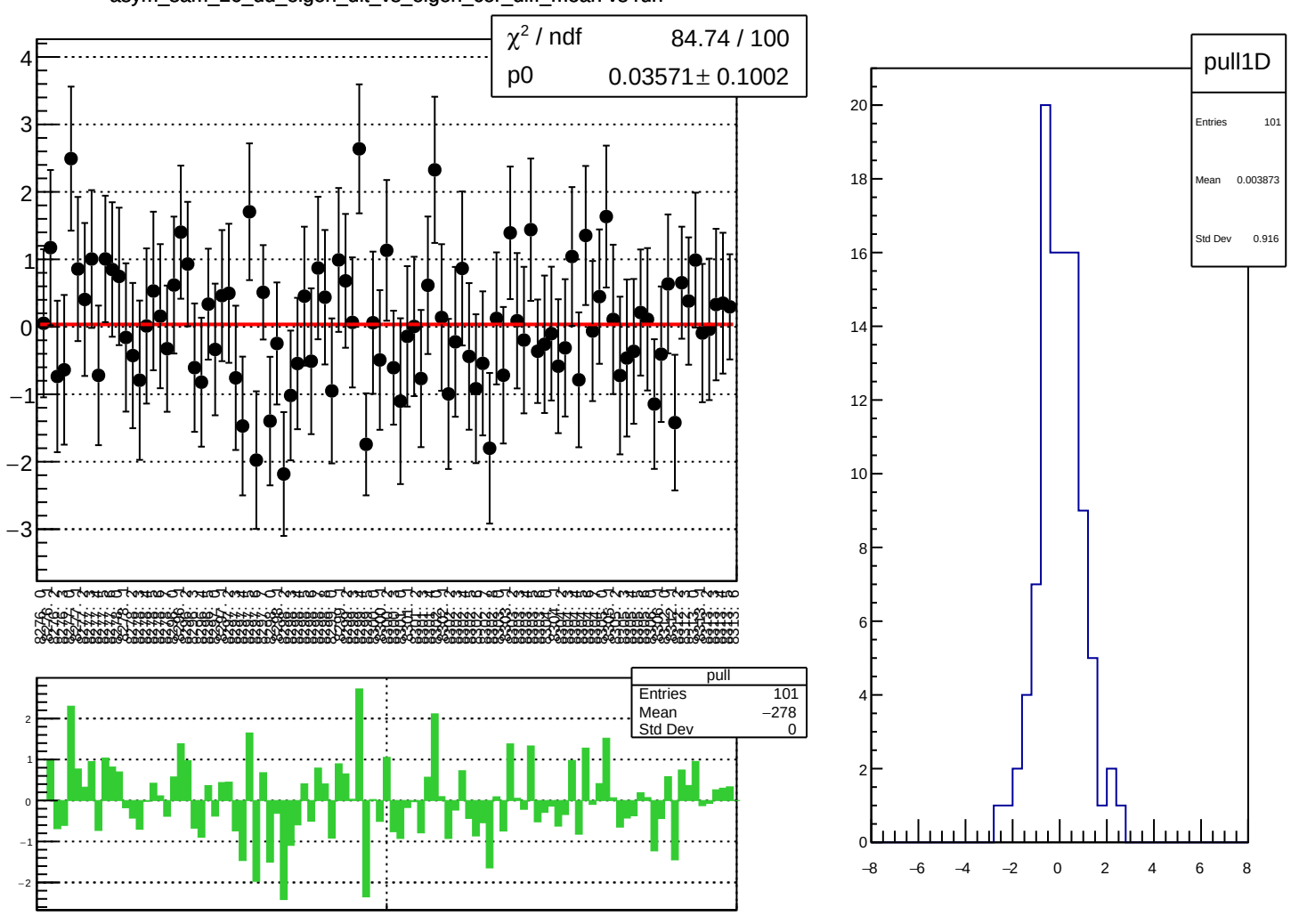

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7555 / 100
p0 98.19 ± 0.07086
120
115
110
105
100
95
90
85

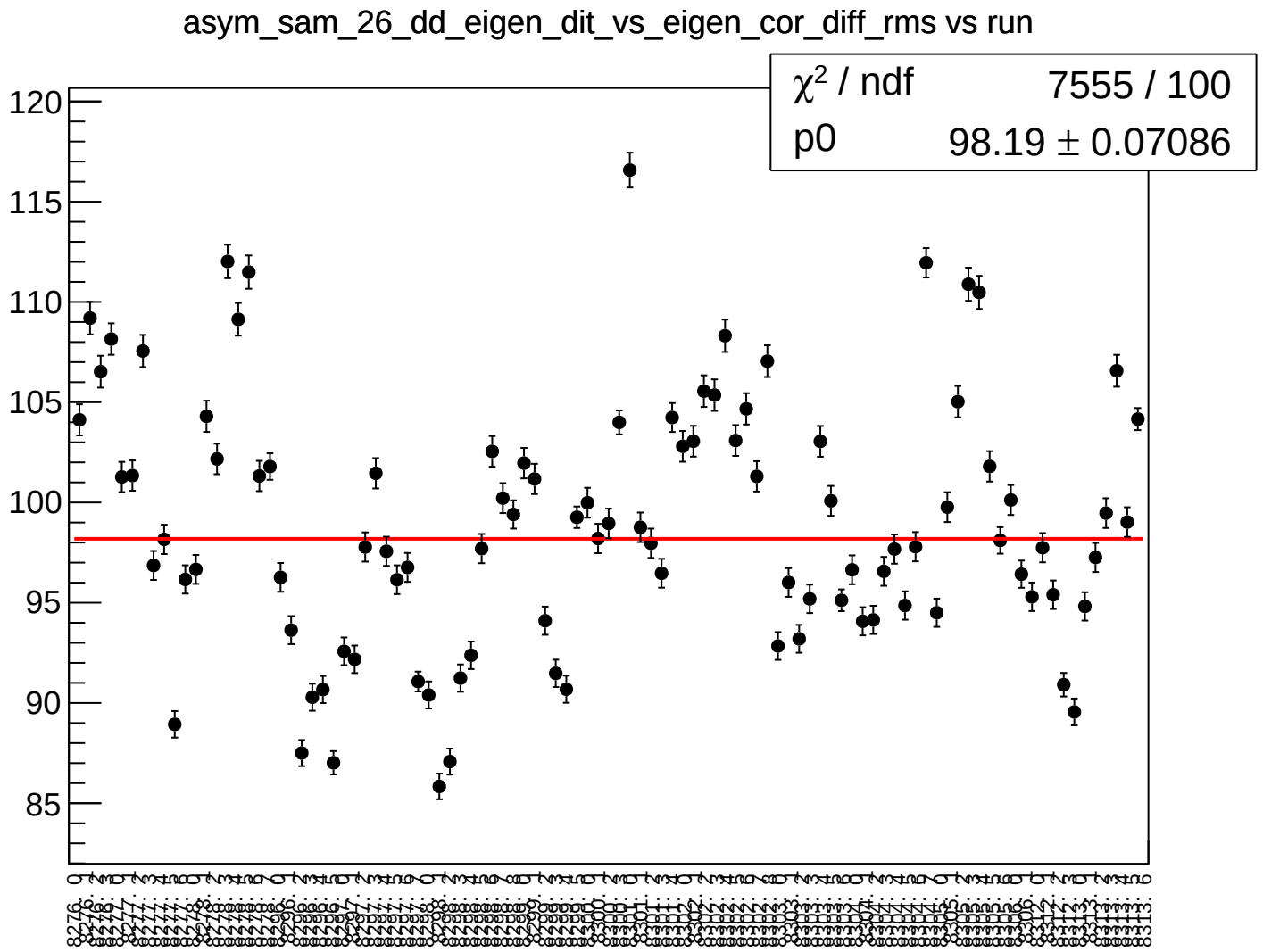

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.5 / 100
p0 1.135e−07 ± 7.923e−06
pull
Entries 101
Mean 614.6
Std Dev 0
pull1D
Entries 101
Mean −0.00473
Std Dev 0.9973

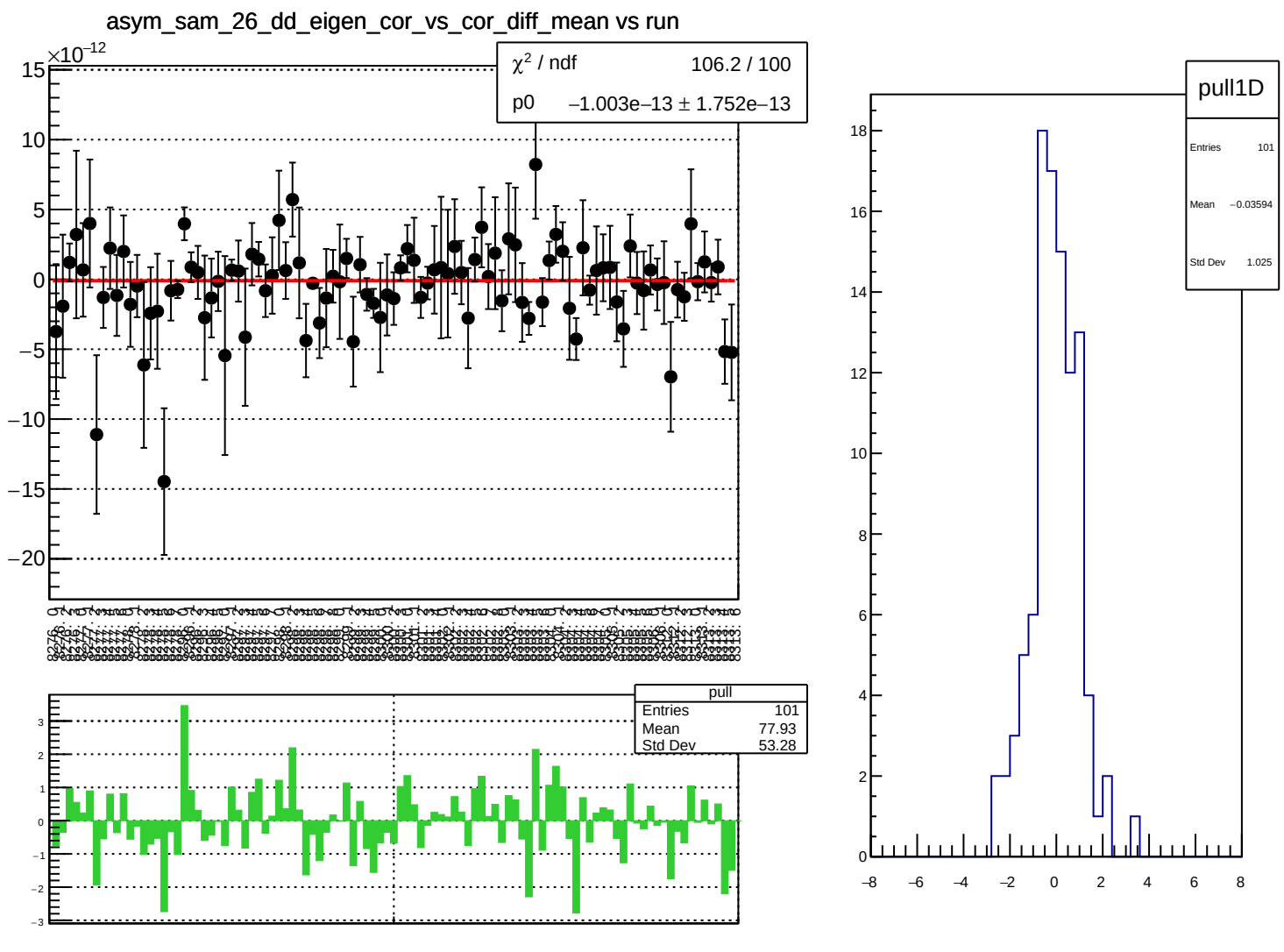

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3689 / 100
p0 0.00777 ± 5.602e–06
0.0088
0.0086
0.0084
0.0082
0.008
0.0078
0.0076
0.0074
0.0072
0.007
0.0068

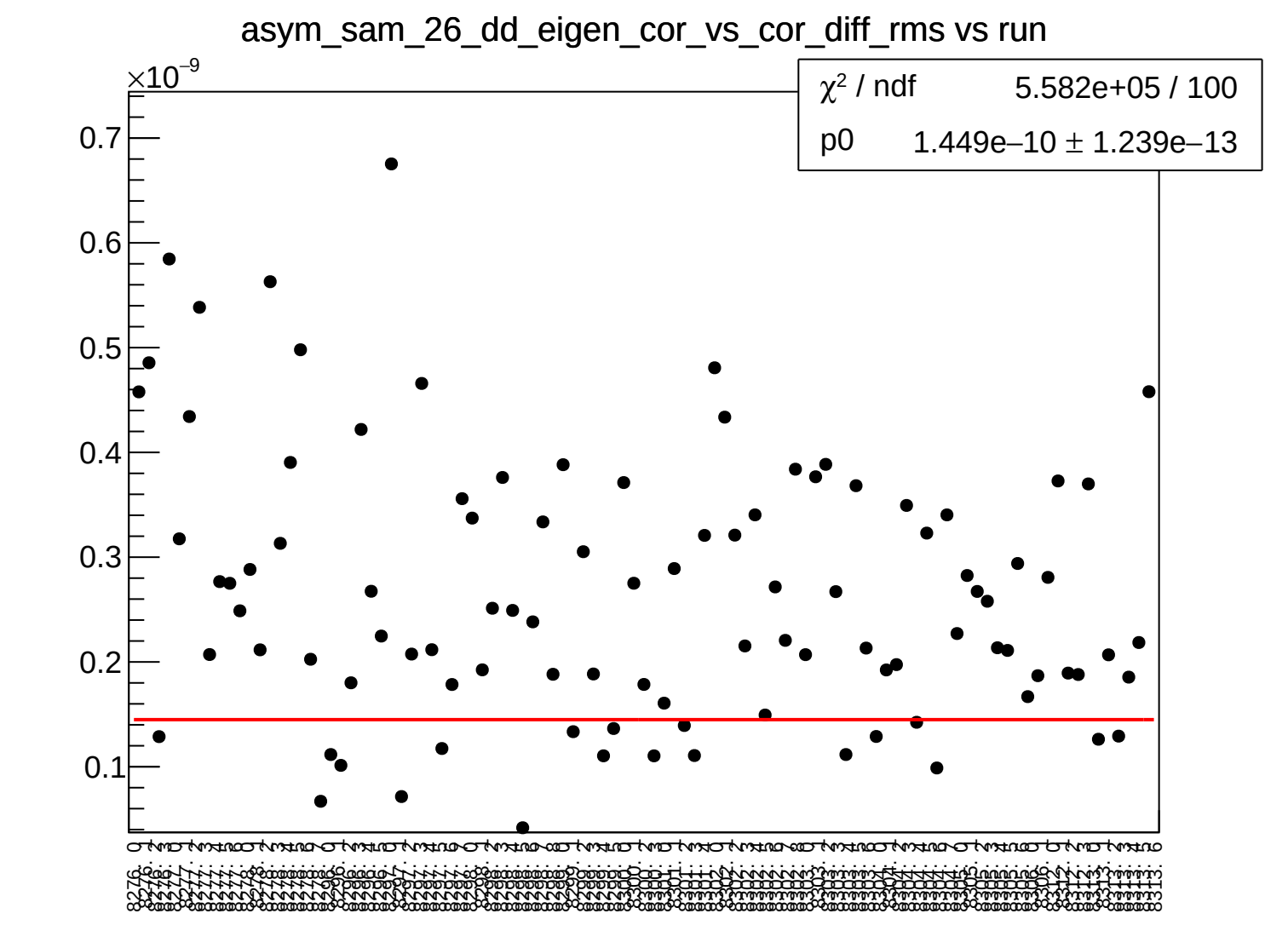

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.74 / 100
p0 0.03571 ± 0.1002
pull
Entries 101
Mean −278
Std Dev 0
pull1D
Entries 101
Mean 0.003873
Std Dev 0.916

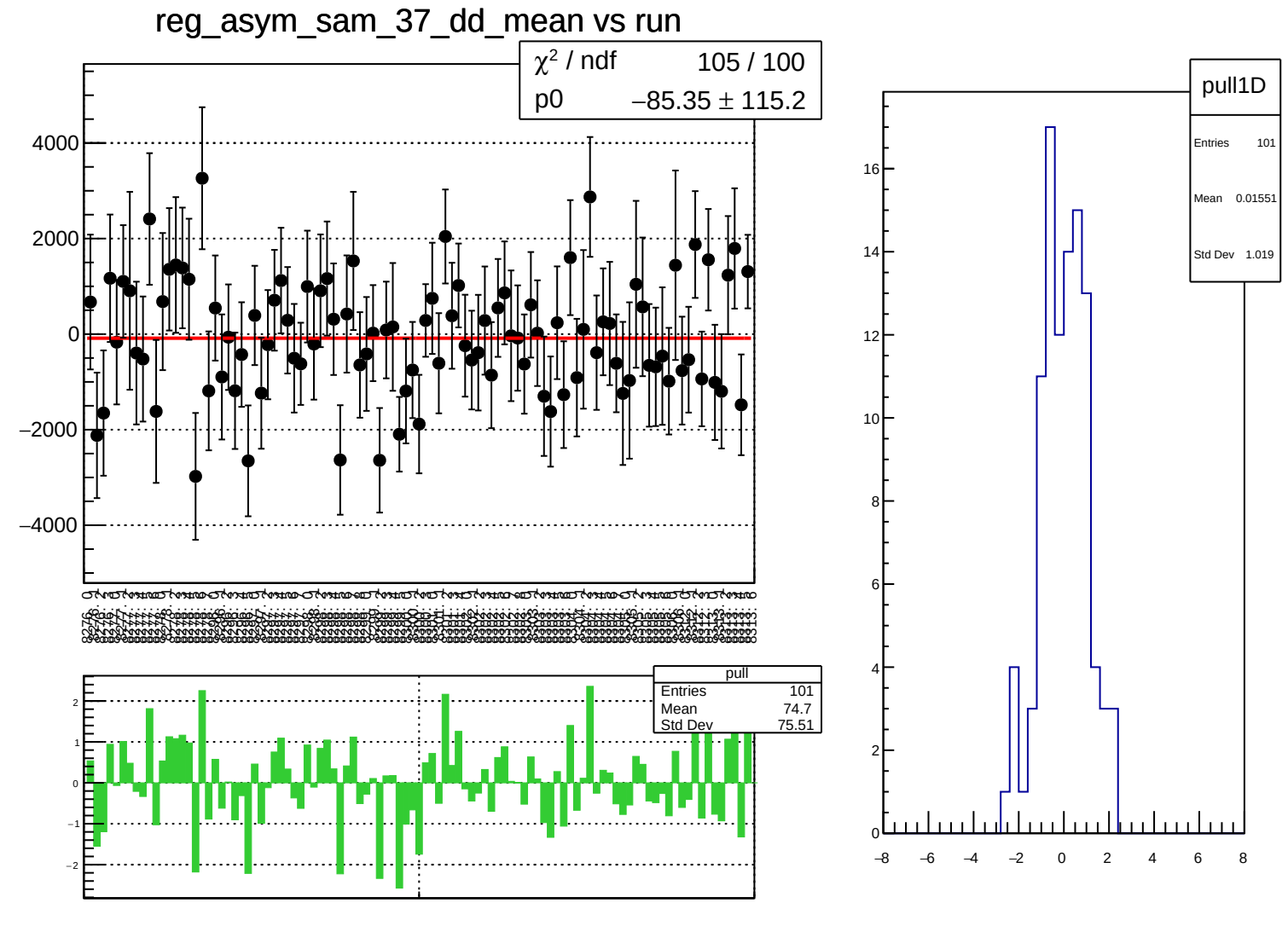

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7555 / 100
p0 98.19 ± 0.07086
120
115
110
105
100
95
90
85

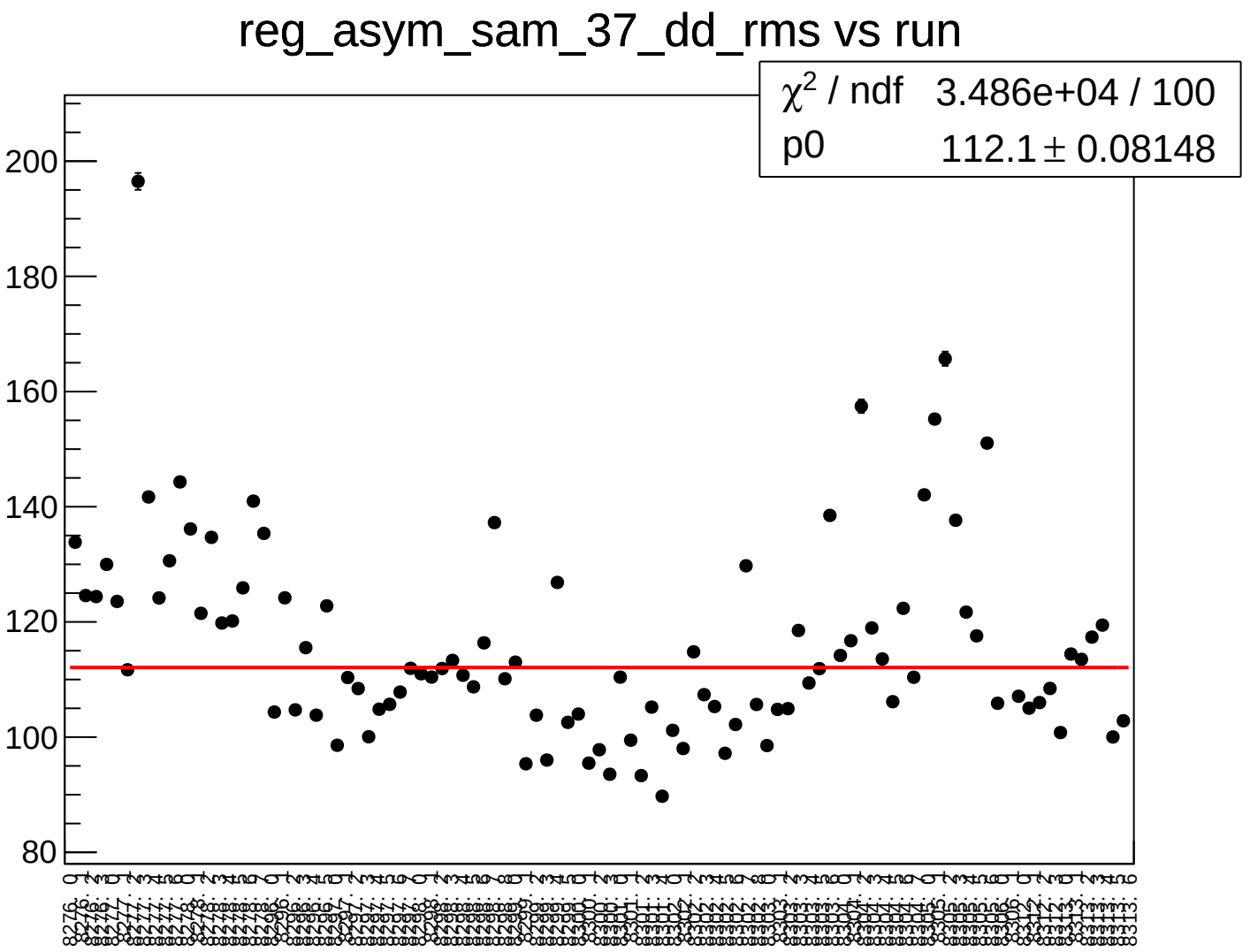

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.74 / 100
p0 0.03571 ± 0.1002
pull
Entries 101
Mean −278
Std Dev 0
pull1D
Entries 101
Mean 0.003873
Std Dev 0.916

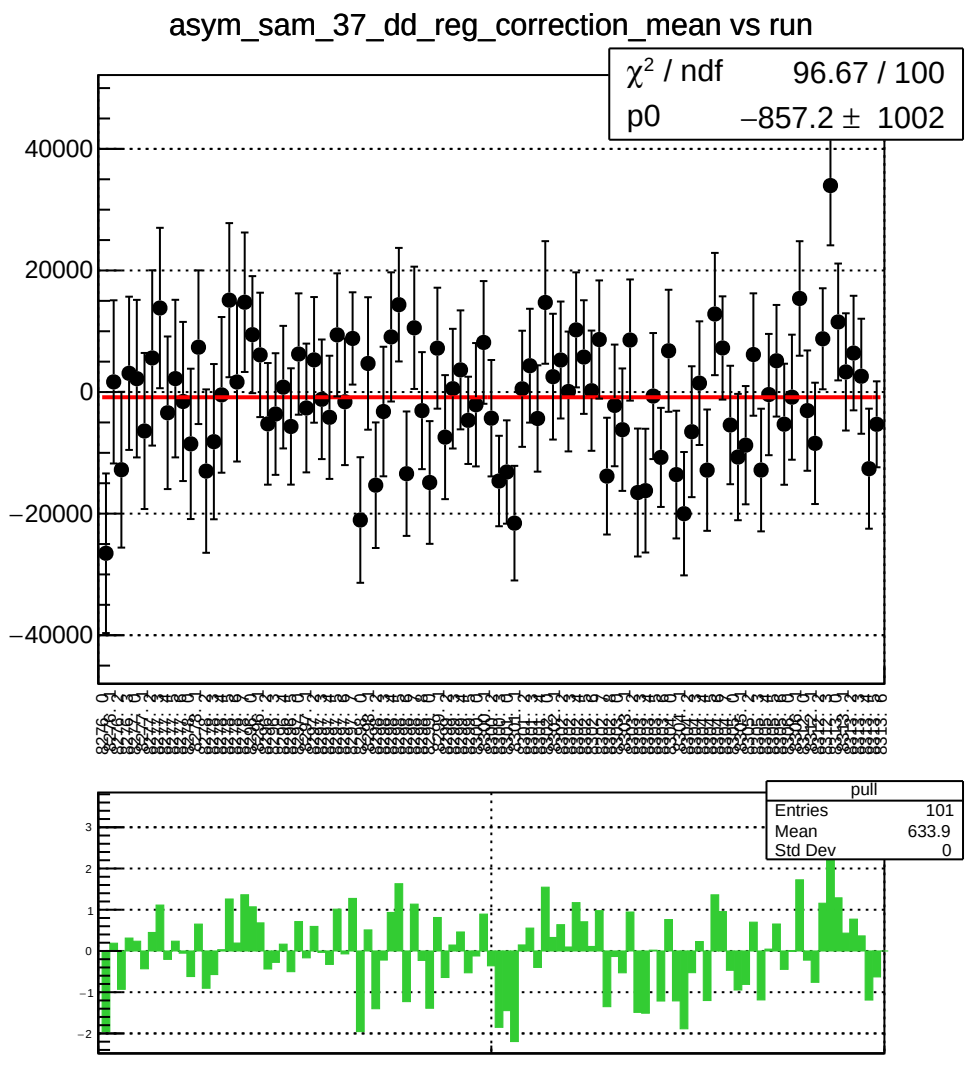

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7555 / 100
p0 98.19 ± 0.07086
120
115
110
105
100
95
90
85

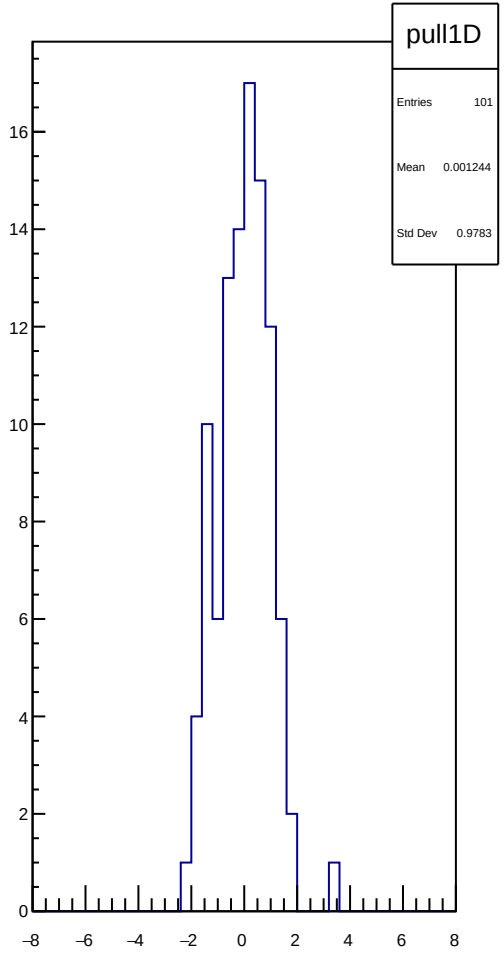

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 106.2 / 100
p0 −1.003e−13 ± 1.752e−13
pull
Entries 101
Mean 77.93
Std Dev 53.28
pull1D
Entries 101
Mean −0.03594
Std Dev 1.025

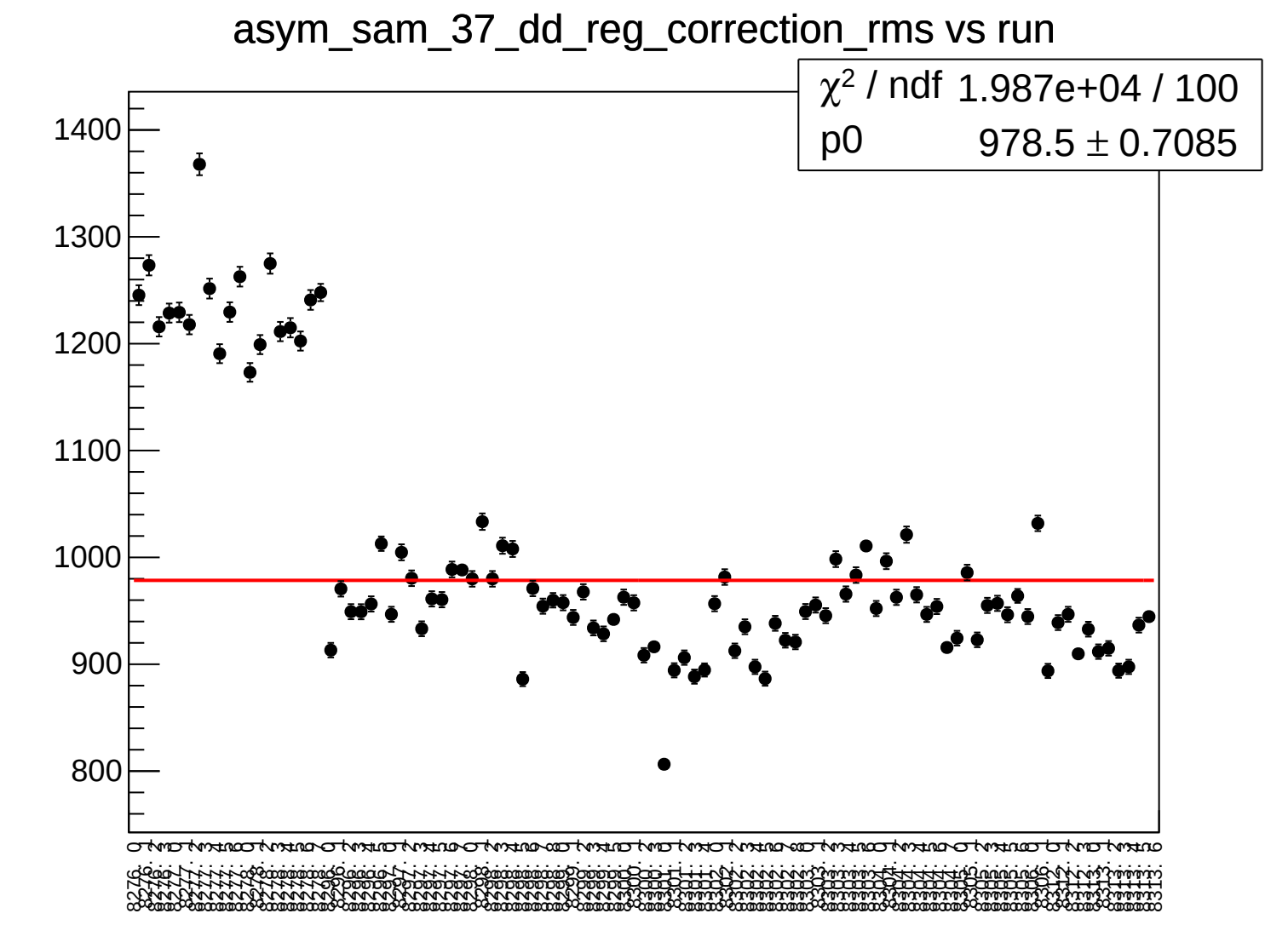

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.582e+05 / 100
p0 1.449e−10 ± 1.239e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1

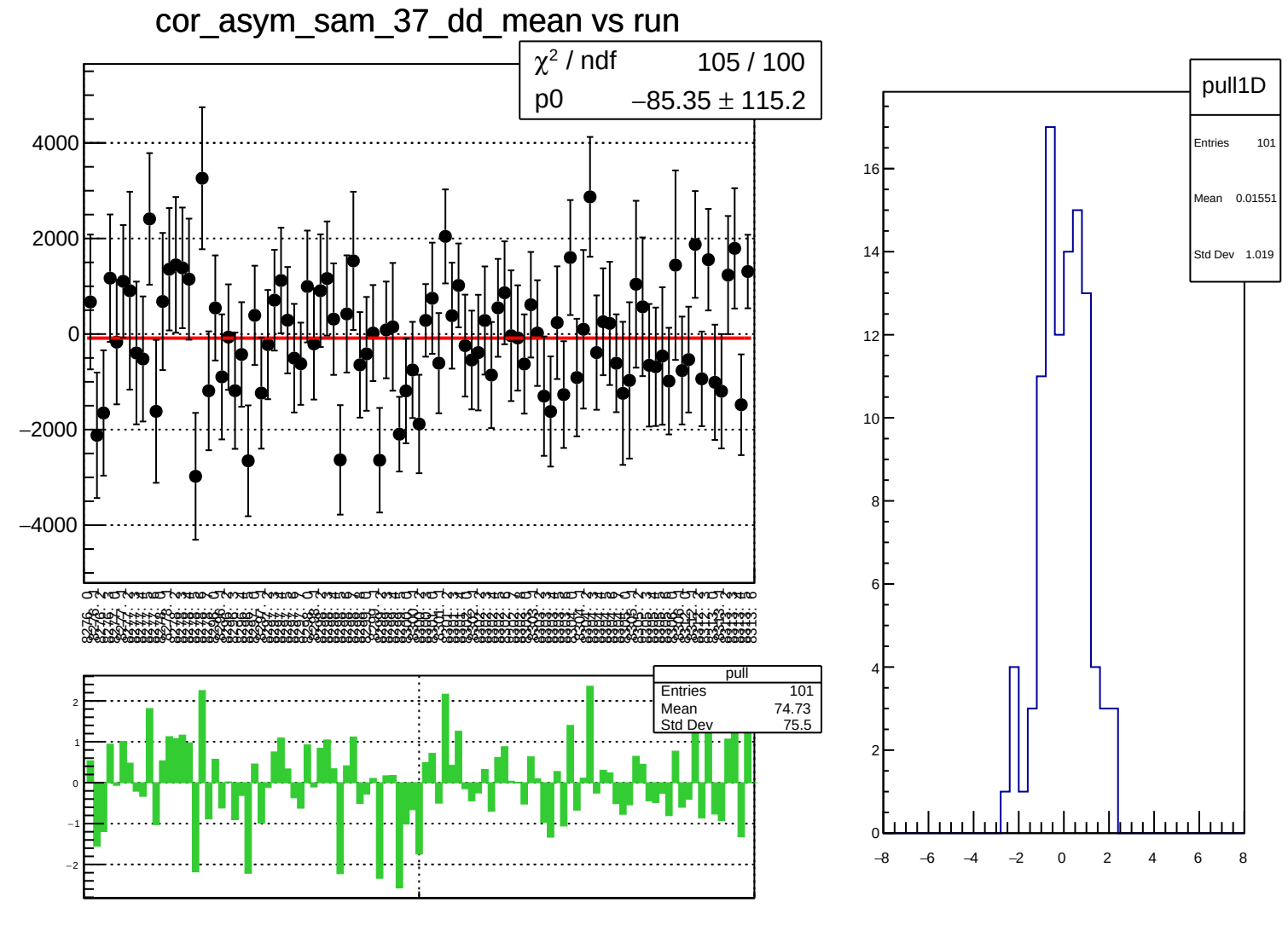

reg_asym_sam_37_dd_mean vs run
χ² / ndf 105 / 100
p0 −85.35 ± 115.2
4000
2000
0
−2000
−4000
pull
Entries 101
Mean 74.7
Std Dev 75.51
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.01551
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

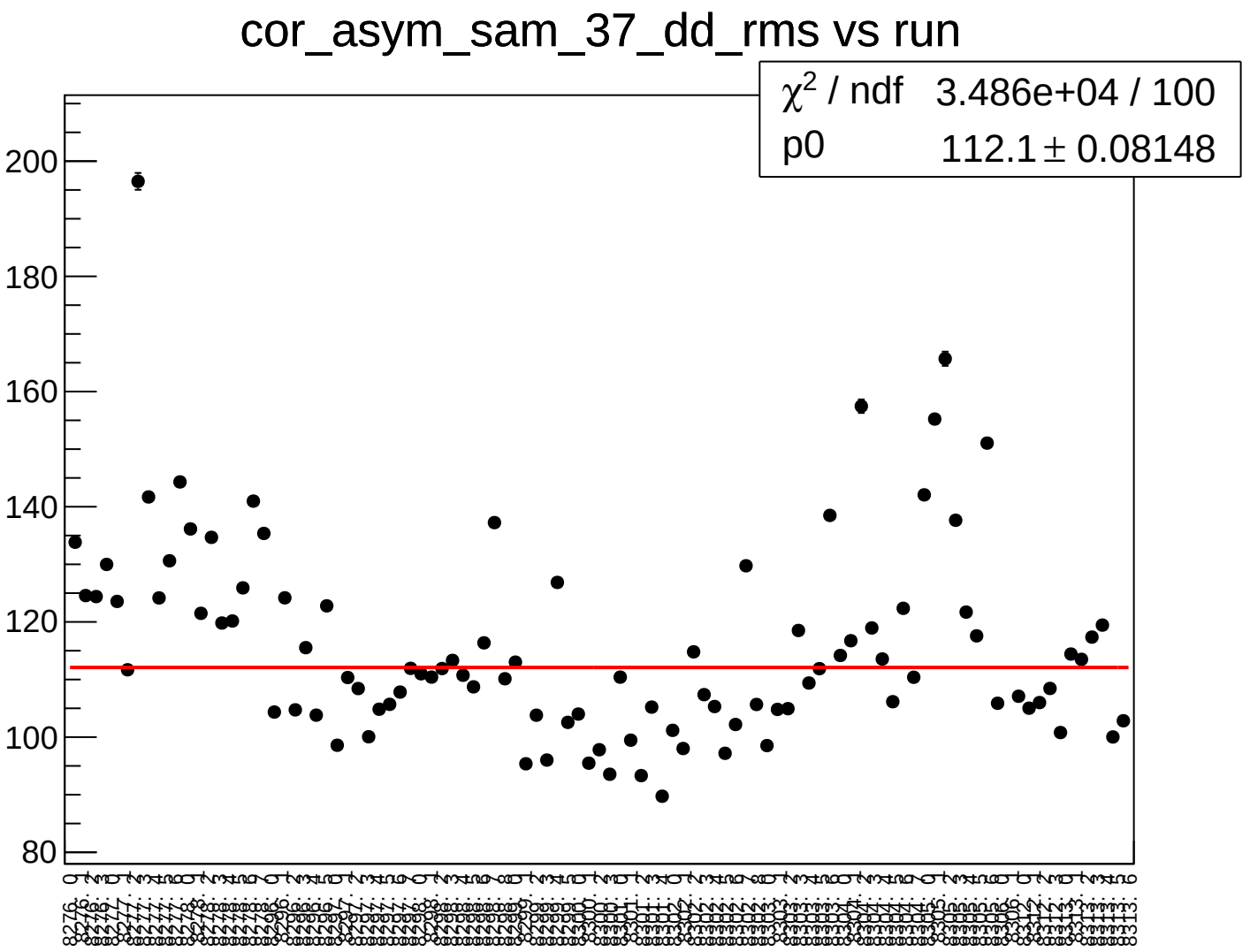

reg_asym_sam_37_dd_rms vs run
χ² / ndf 3.486e+04 / 100
p0 112.1 ± 0.08148
200
180
160
140
120
100
80

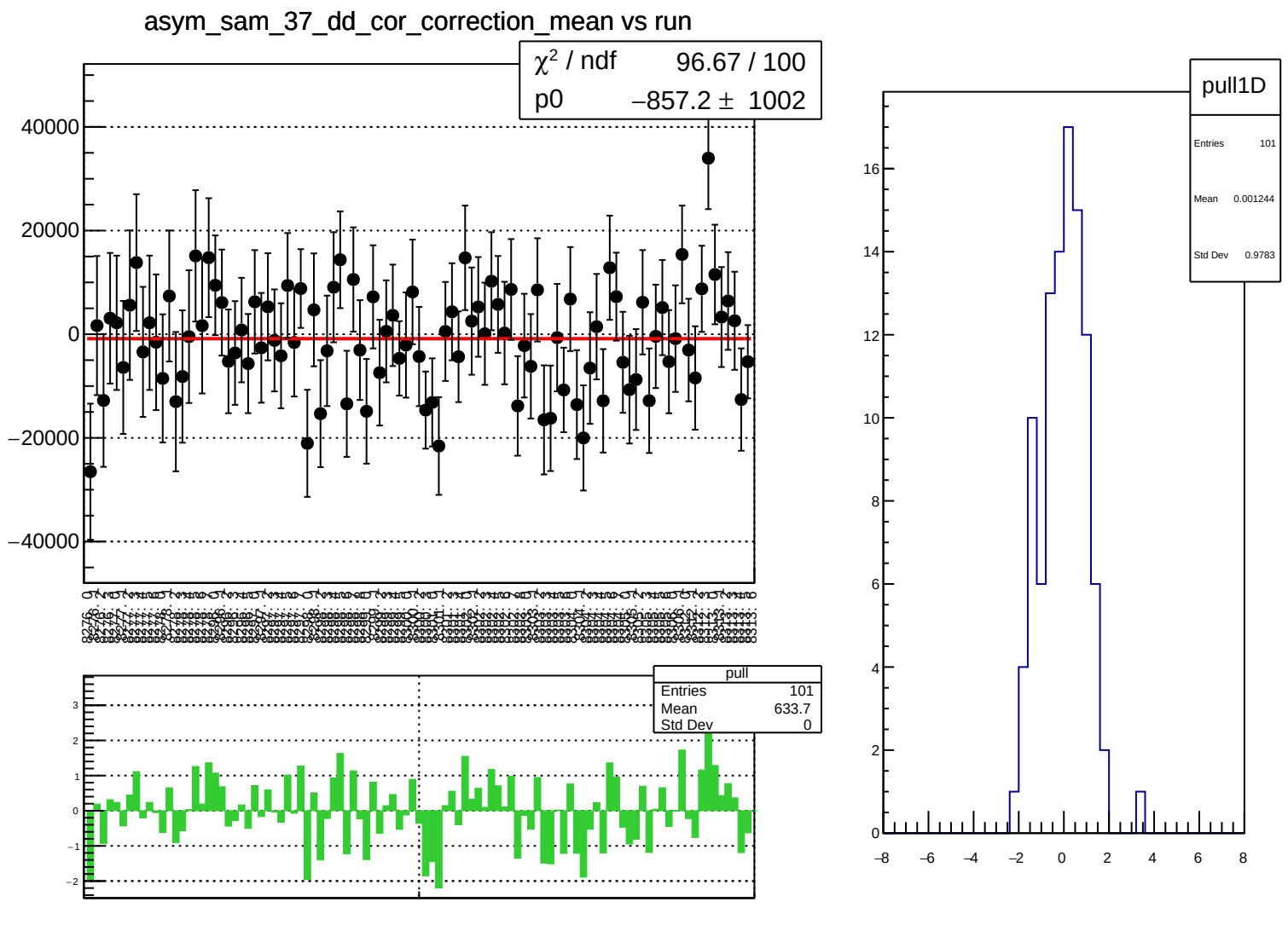

asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 96.67 / 100
p0 −857.2 ± 1002
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 633.9
Std Dev 0
3
2
1
0
−1
−2

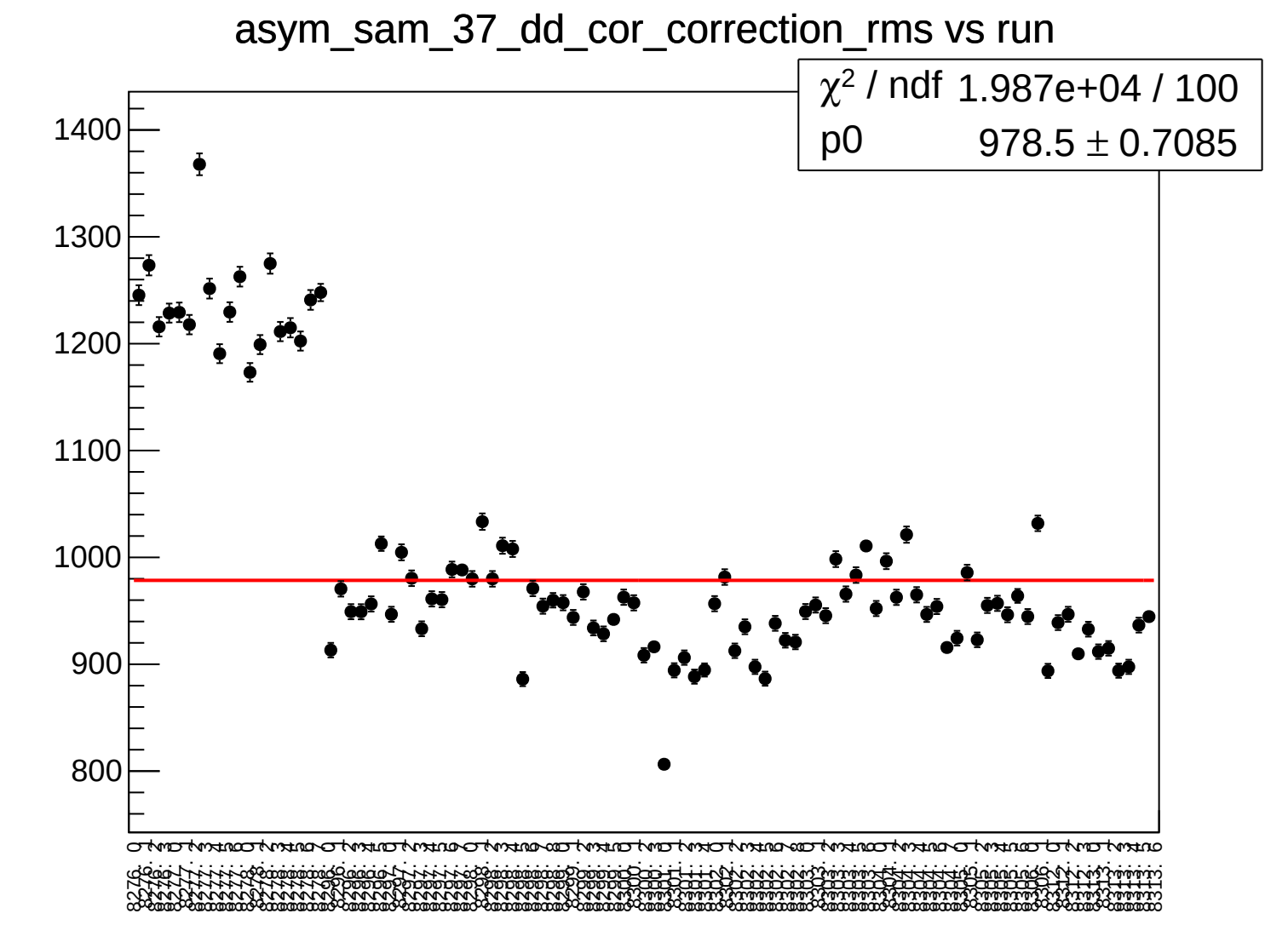

pull1D
Entries 101
Mean 0.001244
Std Dev 0.9783
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

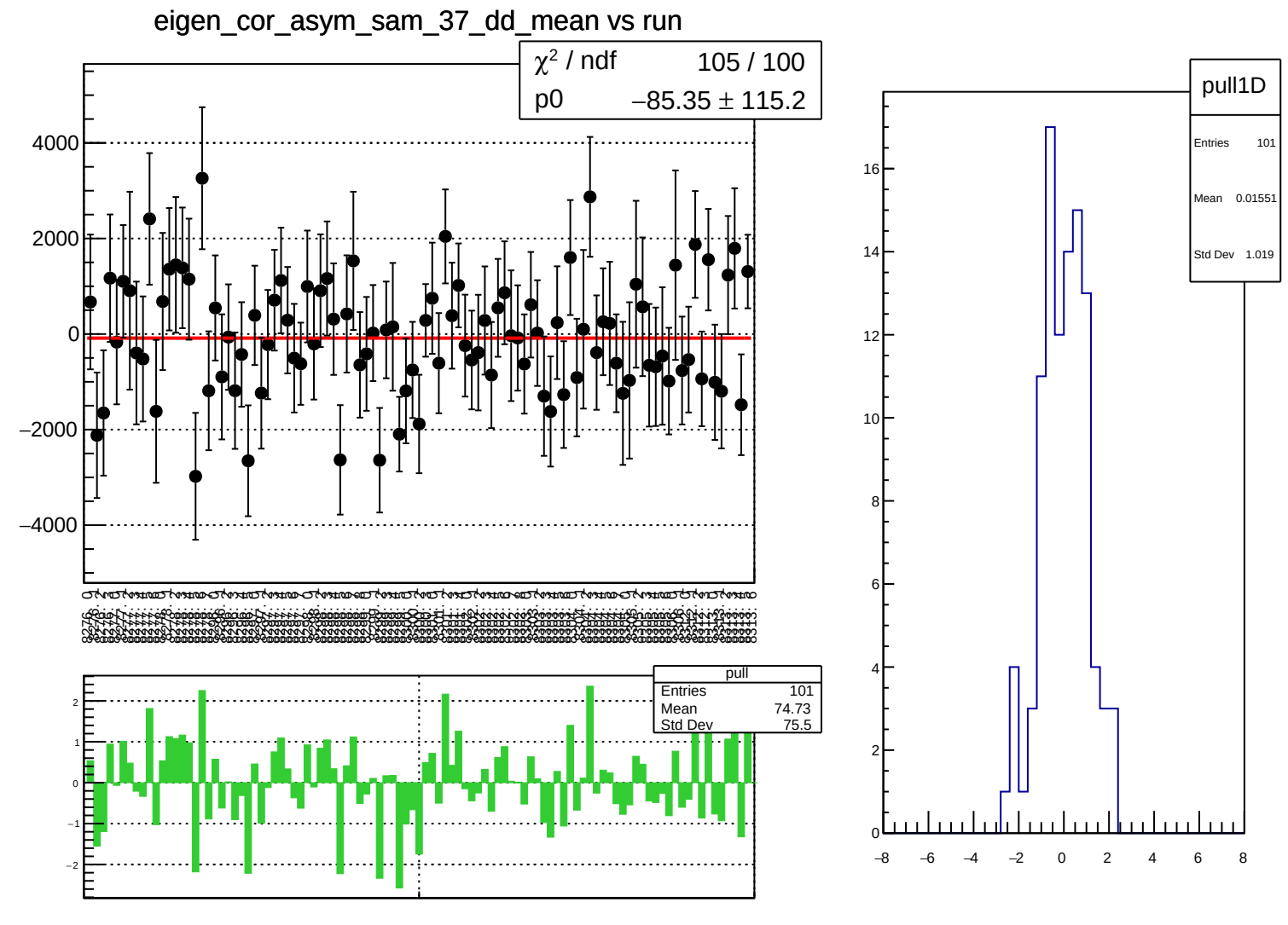

asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 1.987e+04 / 100
p0 978.5 ± 0.7085
1400
1300
1200
1100
1000
900
800

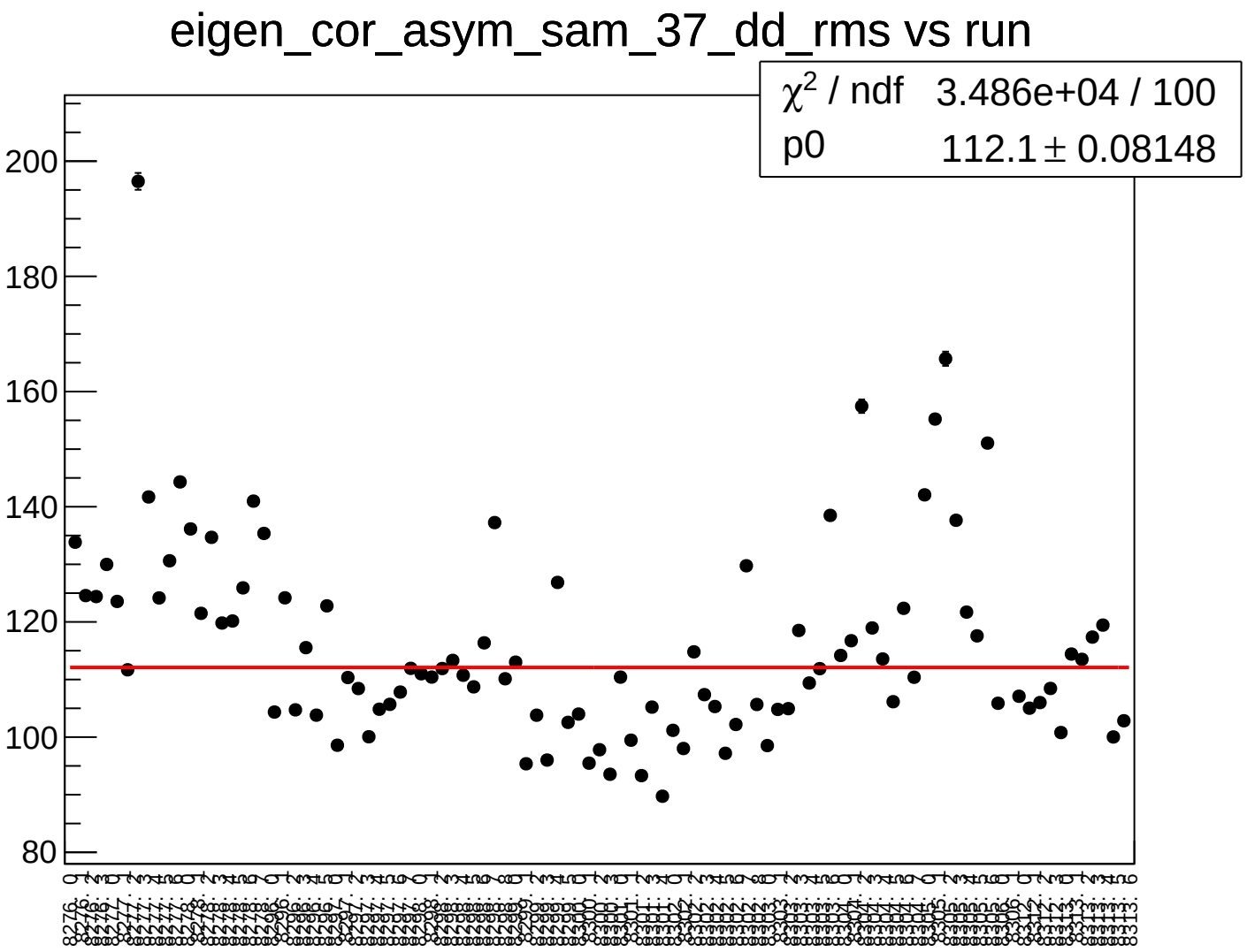

cor_asym_sam_37_dd_mean vs run
χ² / ndf 105 / 100
p0 −85.35 ± 115.2
4000
2000
0
−2000
−4000
pull
Entries 101
Mean 74.73
Std Dev 75.5
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.01551
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

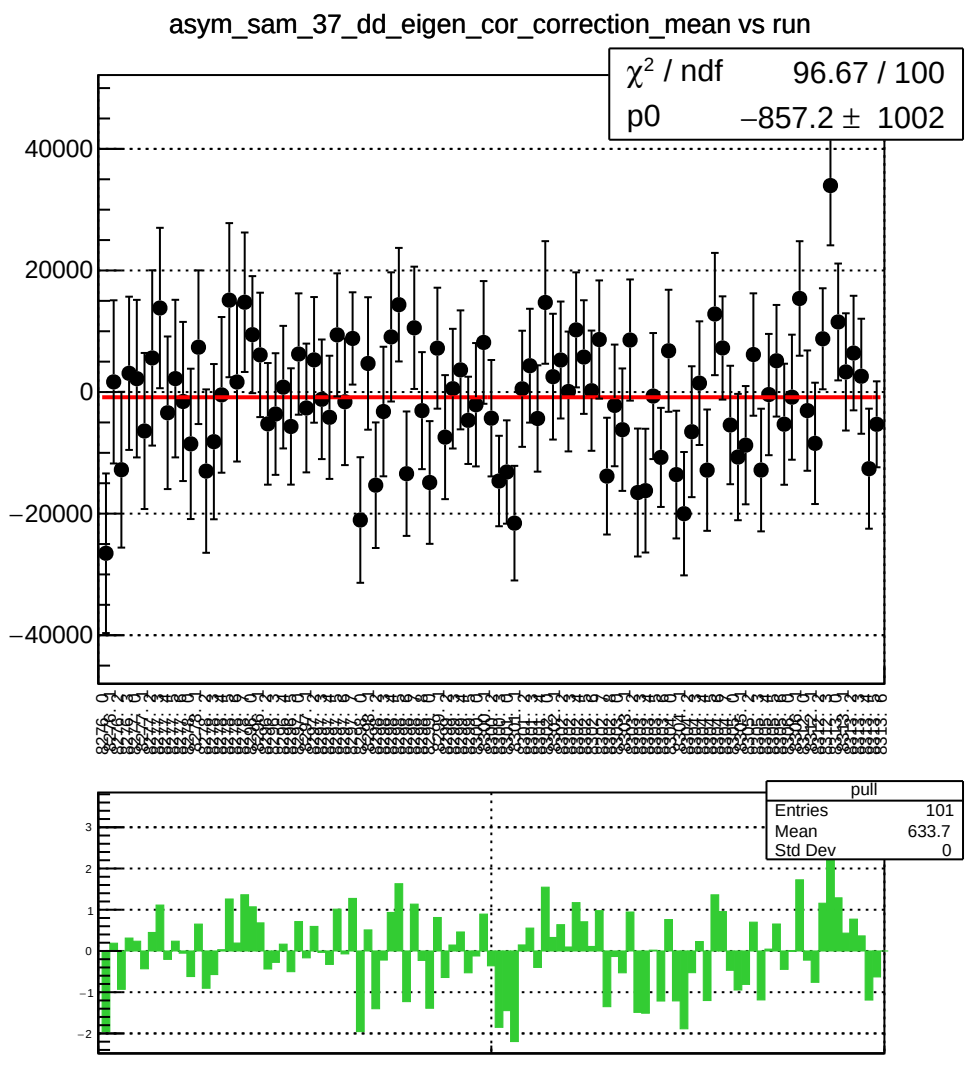

cor_asym_sam_37_dd_rms vs run
χ^2 / ndf 3.486e+04 / 100
p0 112.1 ± 0.08148
200
180
160
140
120
100
80

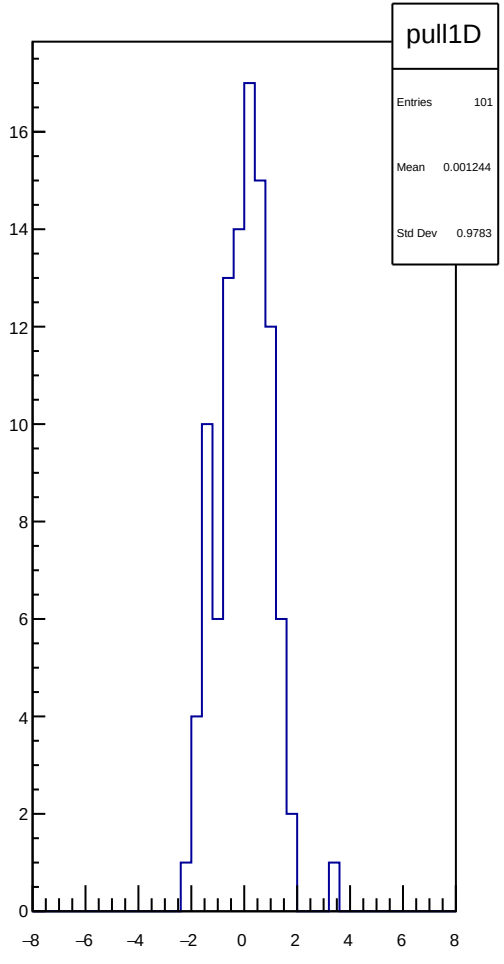

asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 96.67 / 100
p0 −857.2 ± 1002
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 633.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.001244
Std Dev 0.9783
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

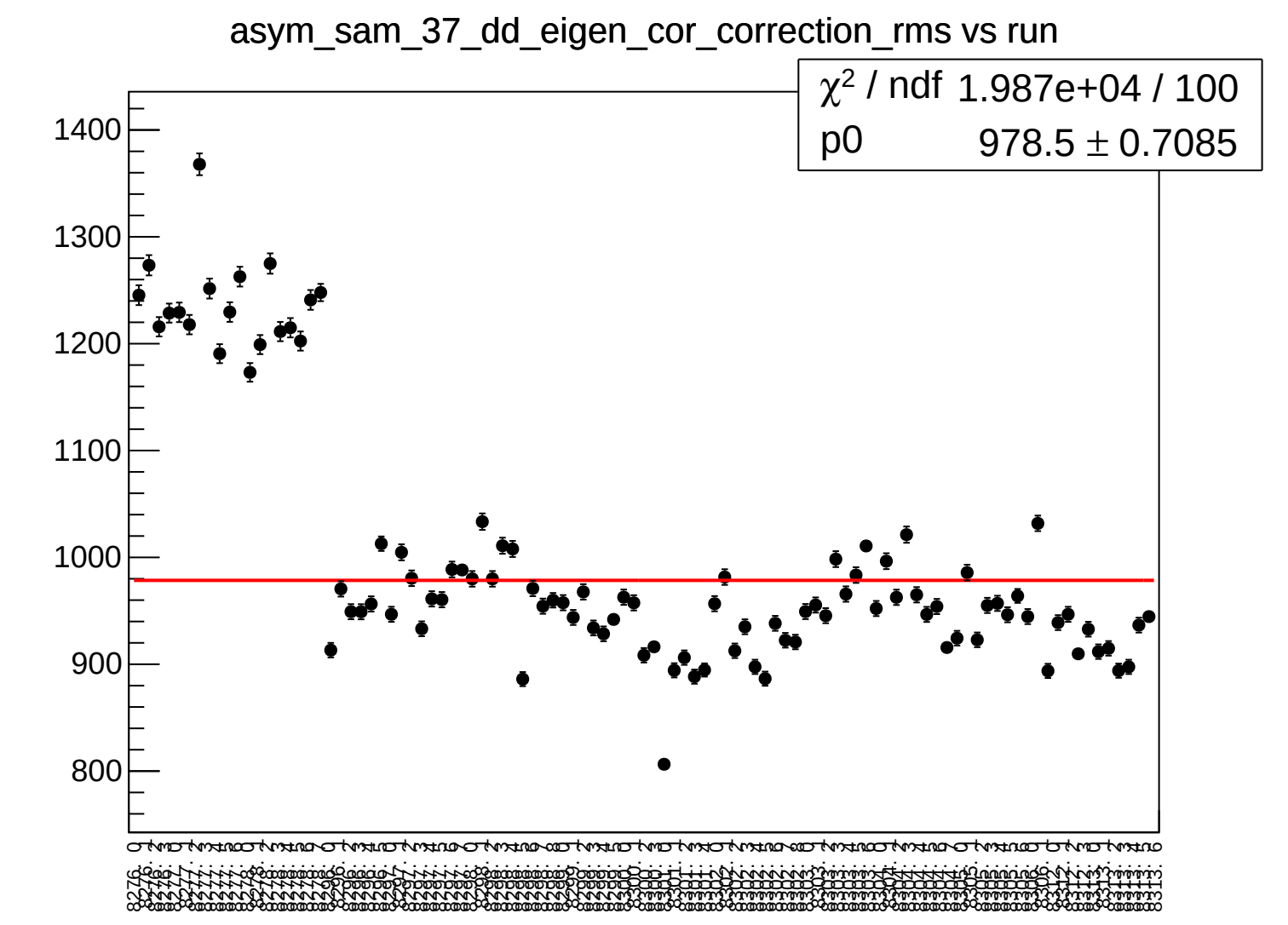

asym_sam_37_dd_cor_correction_rms vs run
χ² / ndf 1.987e+04 / 100
p0 978.5 ± 0.7085
1400
1300
1200
1100
1000
900
800

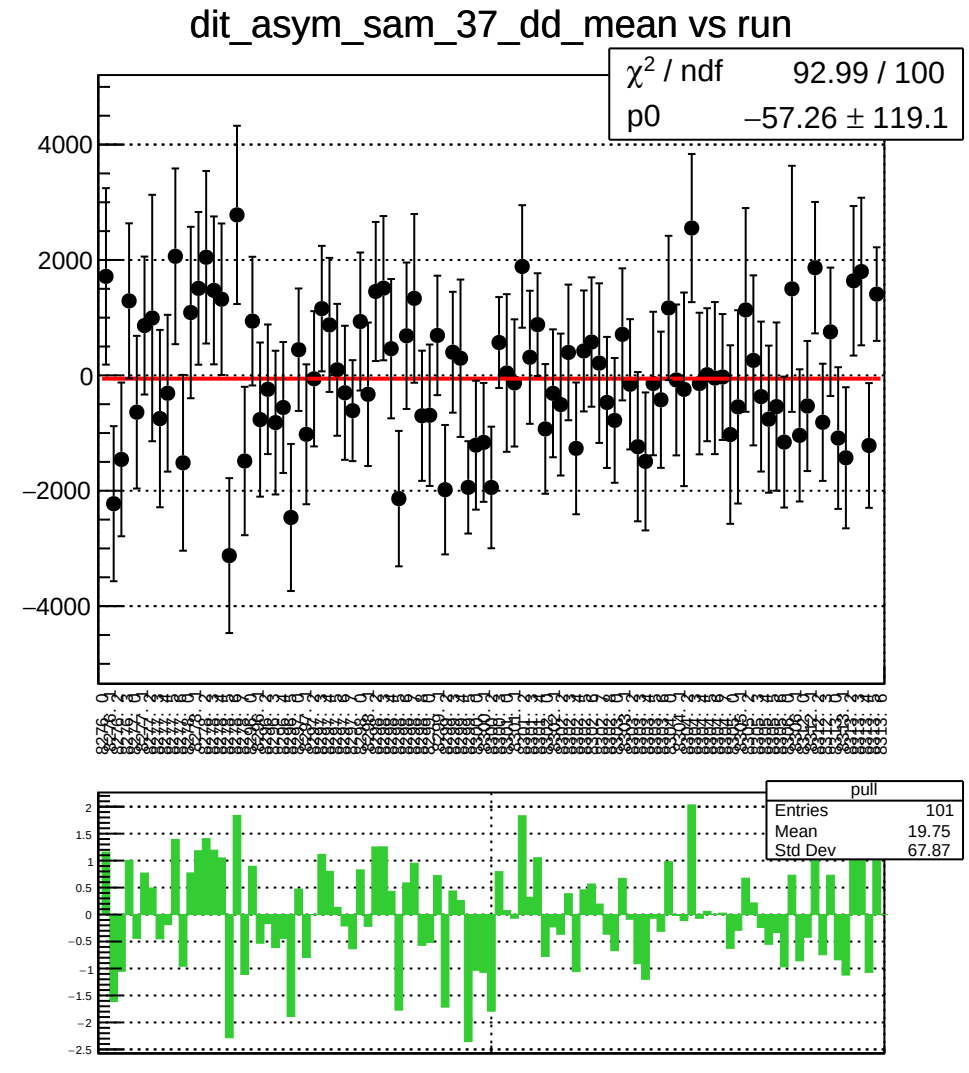

eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 105 / 100
p0 −85.35 ± 115.2
4000
2000
0
−2000
−4000
pull
Entries 101
Mean 74.73
Std Dev 75.5
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.01551
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

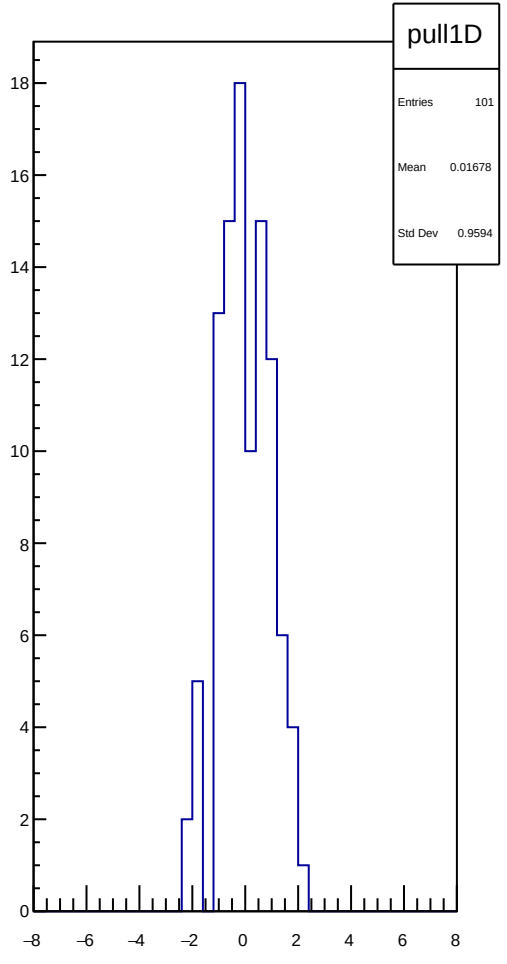

eigen_cor_asym_sam_37_dd_rms vs run
χ² / ndf 3.486e+04 / 100
p0 112.1 ± 0.08148
200
180
160
140
120
100
80

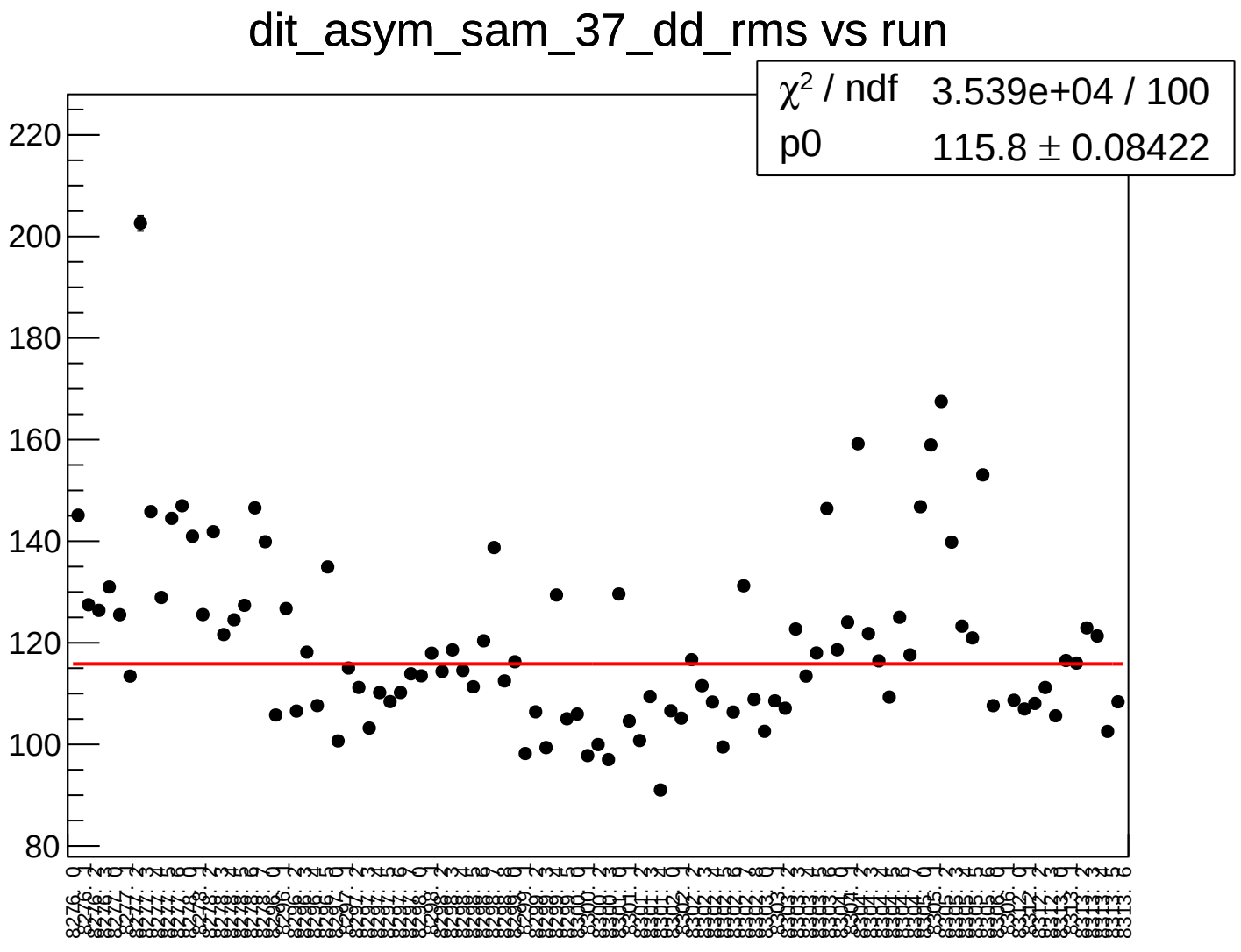

asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 96.67 / 100
p0 −857.2 ± 1002
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 633.7
Std Dev 0
3
2
1
0
−1
−2

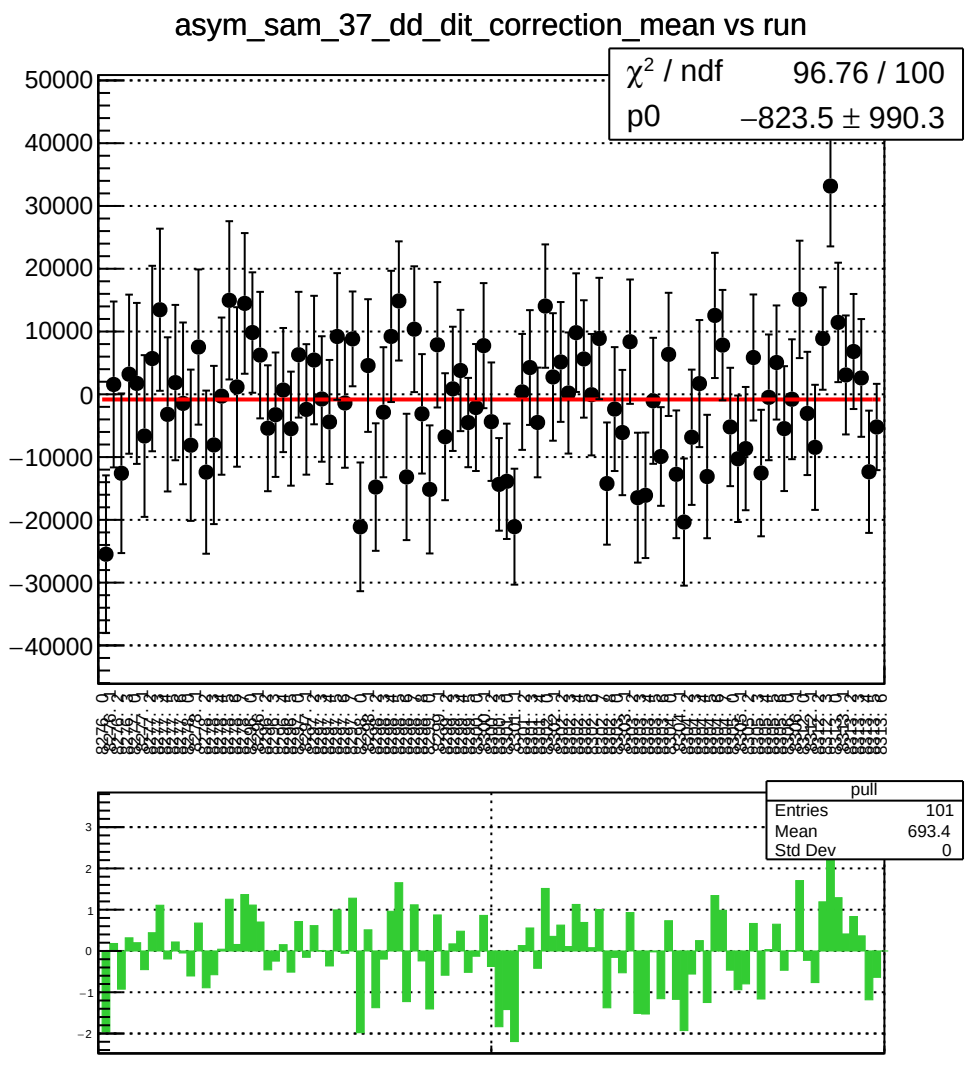

pull1D
Entries 101
Mean 0.001244
Std Dev 0.9783
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

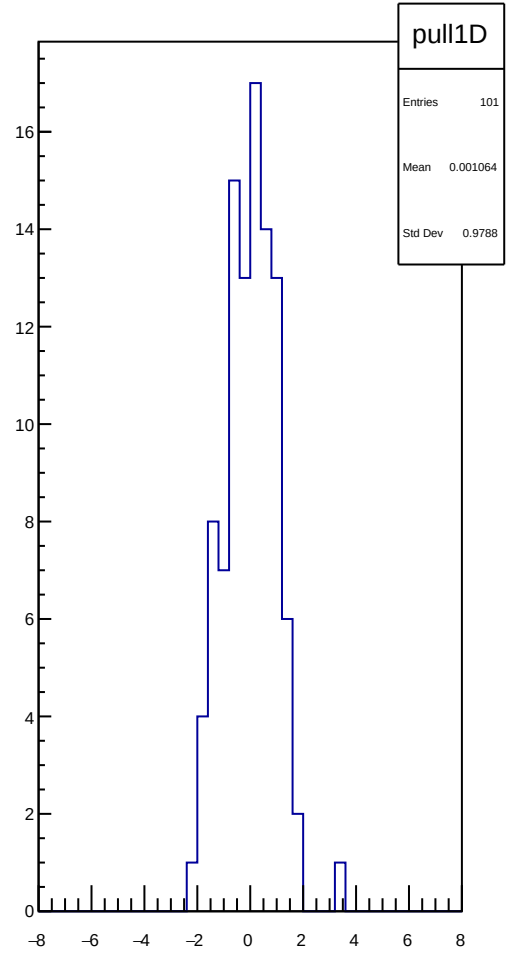

asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.987e+04 / 100
p0 978.5 ± 0.7085
1400
1300
1200
1100
1000
900
800

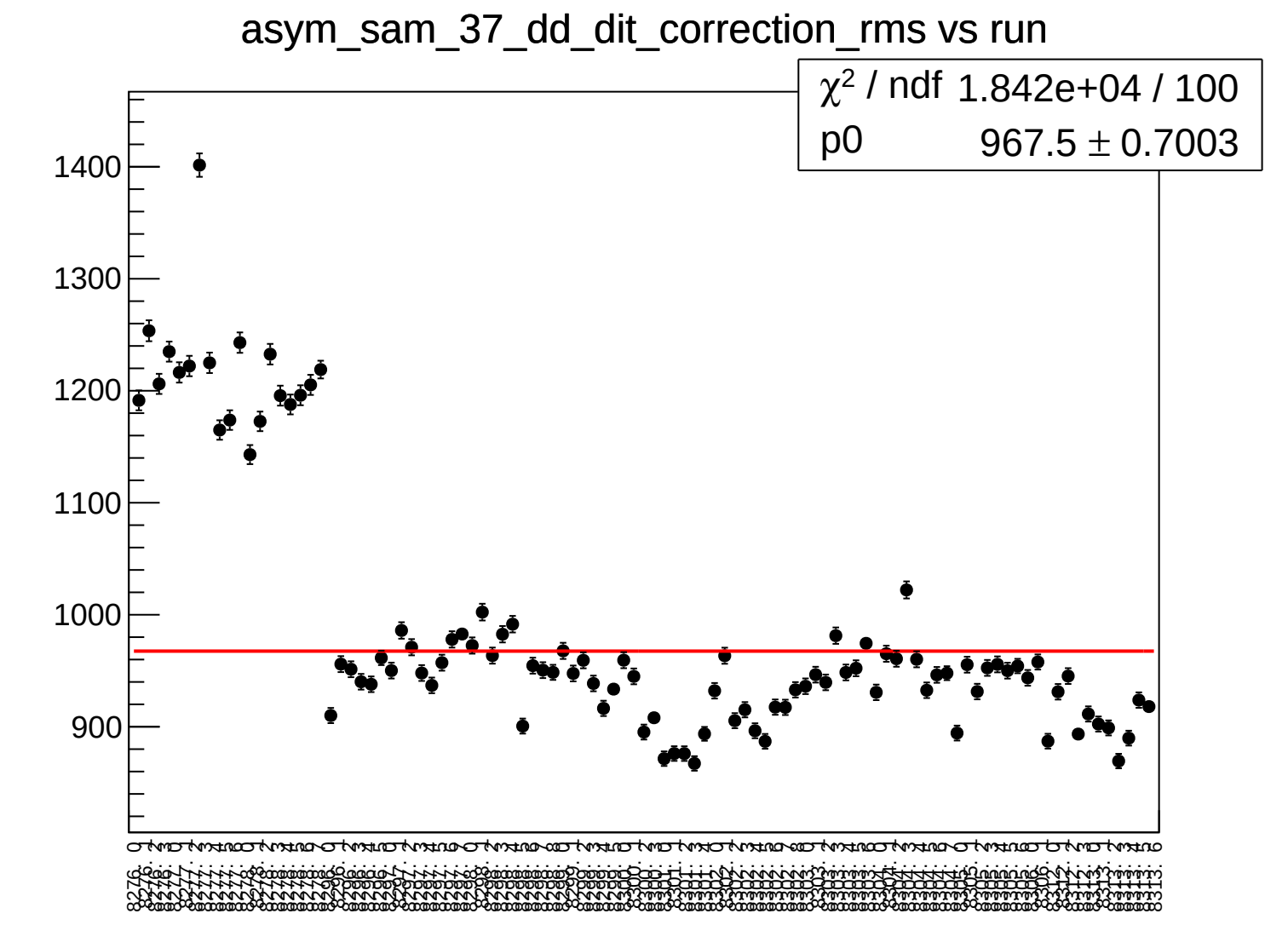

dit_asym_sam_37_dd_mean vs run
χ² / ndf 92.99 / 100
p0 −57.26 ± 119.1
4000
2000
0
−2000
−4000
pull
Entries 101
Mean 19.75
Std Dev 67.87
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

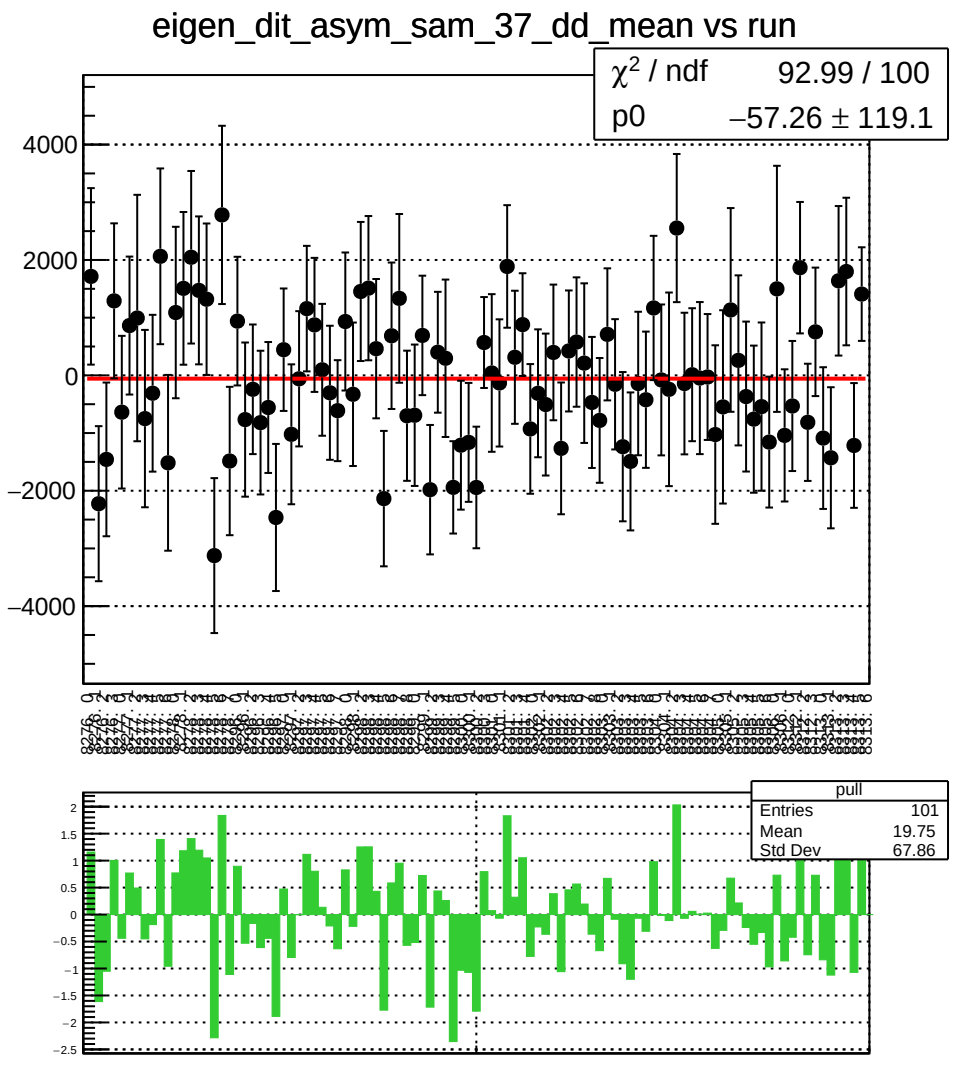

pull1D
Entries 101
Mean 0.01678
Std Dev 0.9594
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

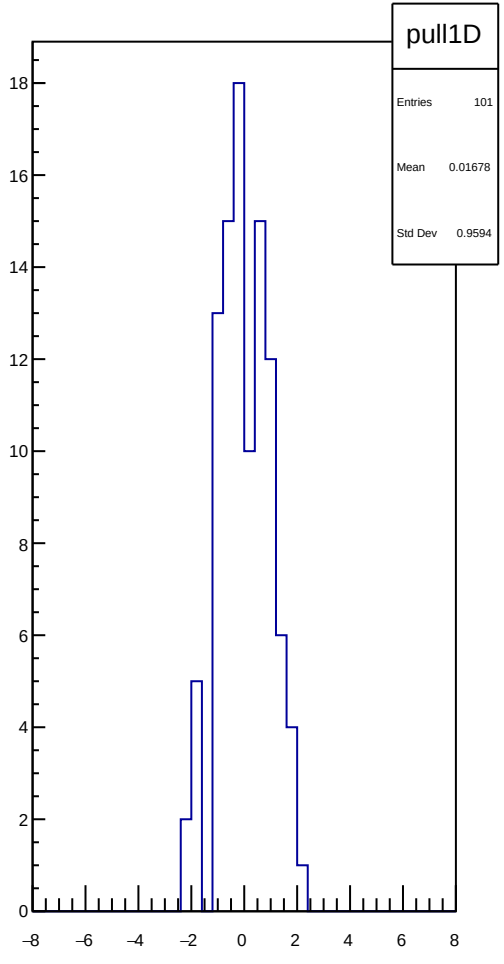

dit_asym_sam_37_dd_rms vs run
χ² / ndf 3.539e+04 / 100
p0 115.8 ± 0.08422
220
200
180
160
140
120
100
80

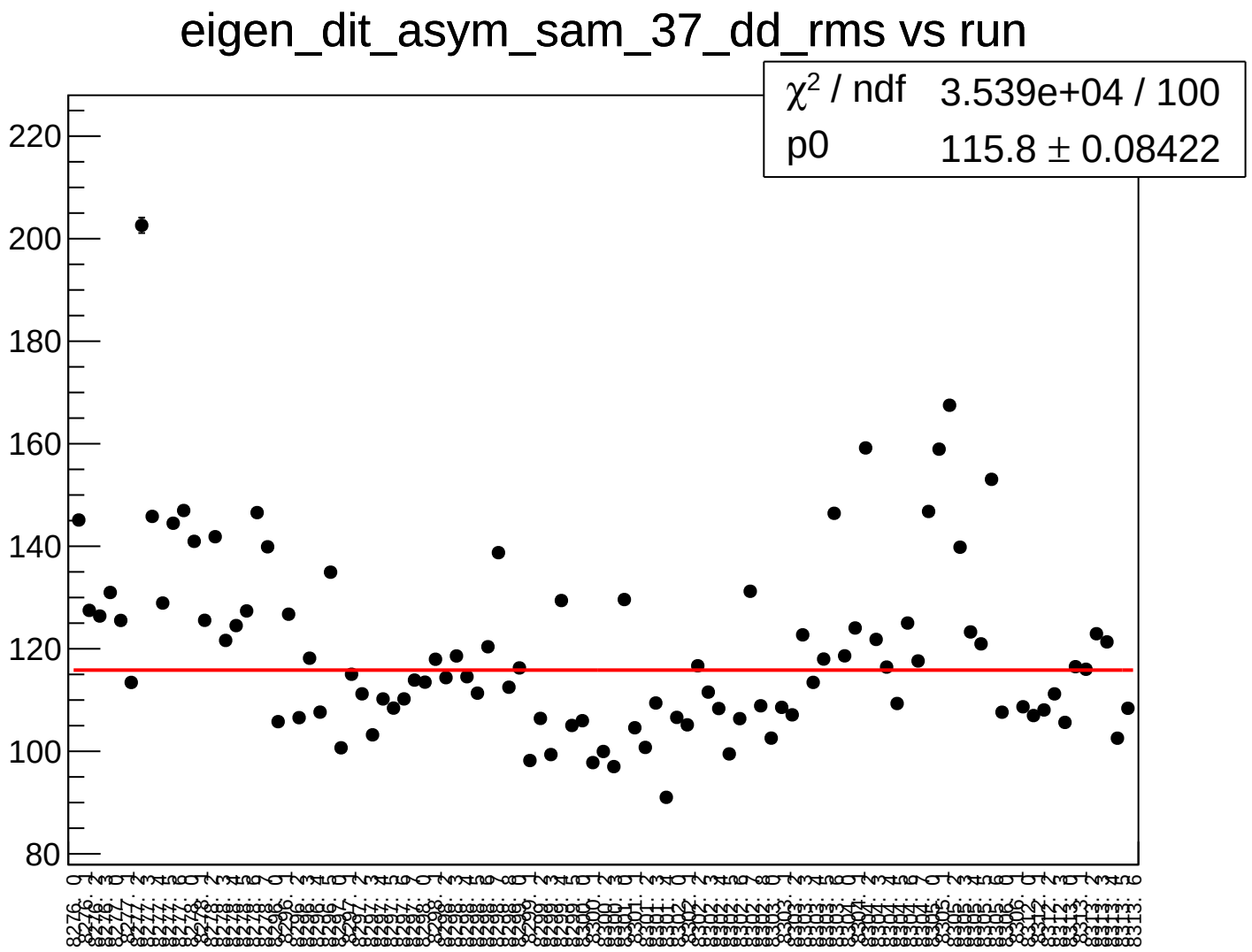

asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 96.76 / 100
p0 −823.5 ± 990.3
pull
Entries 101
Mean 693.4
Std Dev 0

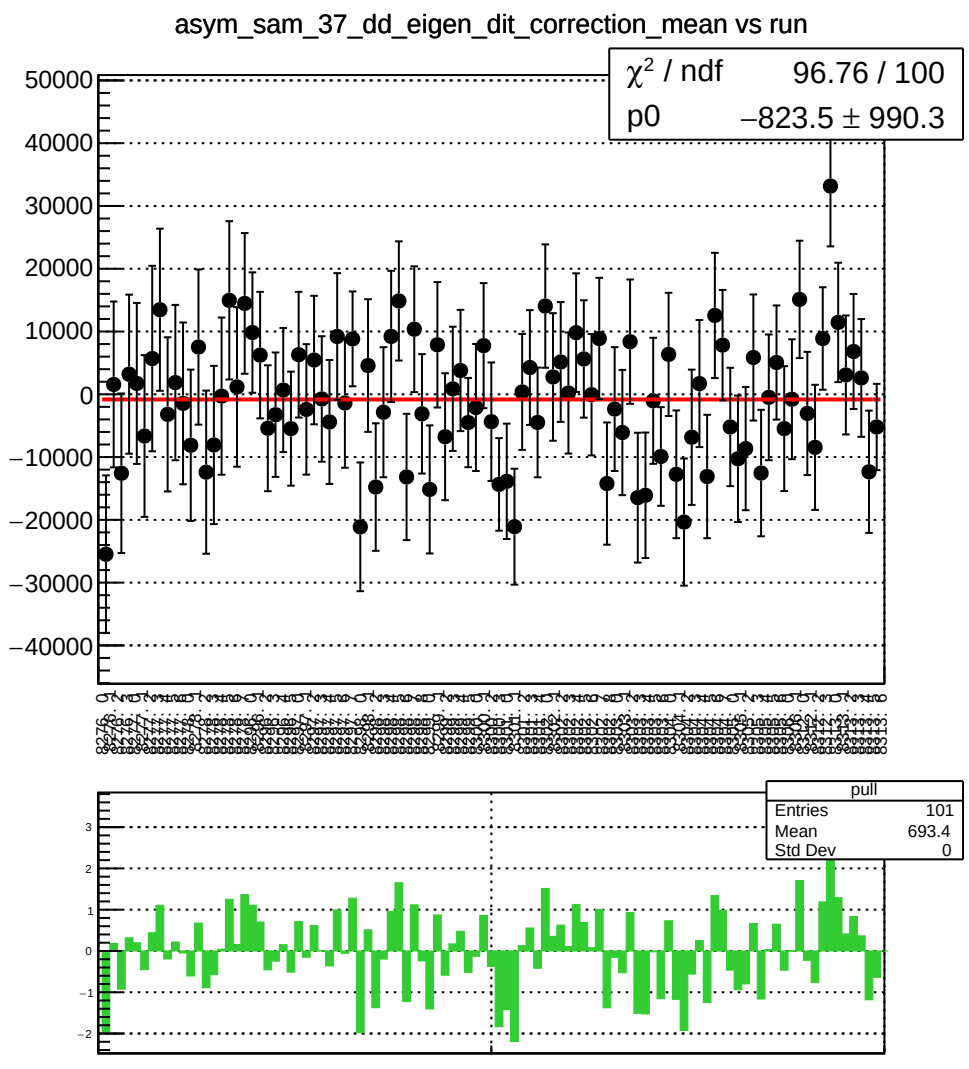

pull1D
Entries 101
Mean 0.001064
Std Dev 0.9788

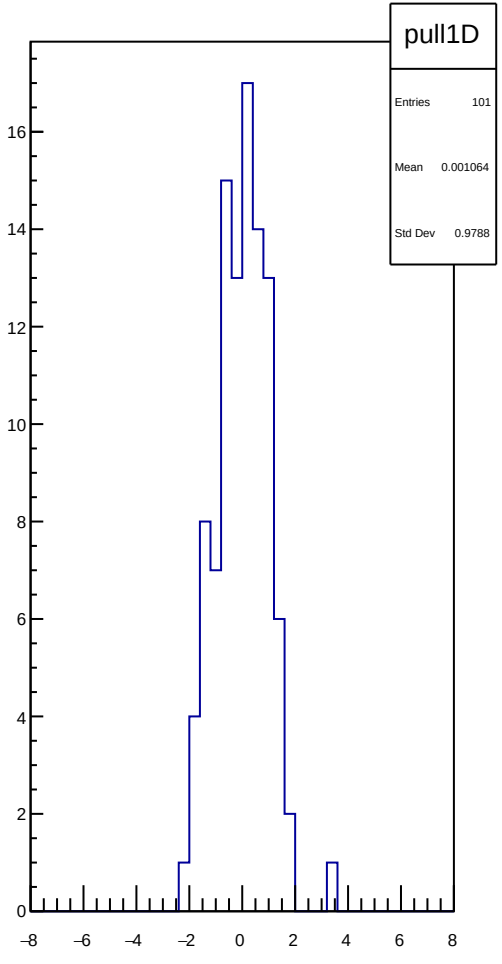

asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 1.842e+04 / 100
p0 967.5 ± 0.7003
1400
1300
1200
1100
1000
900

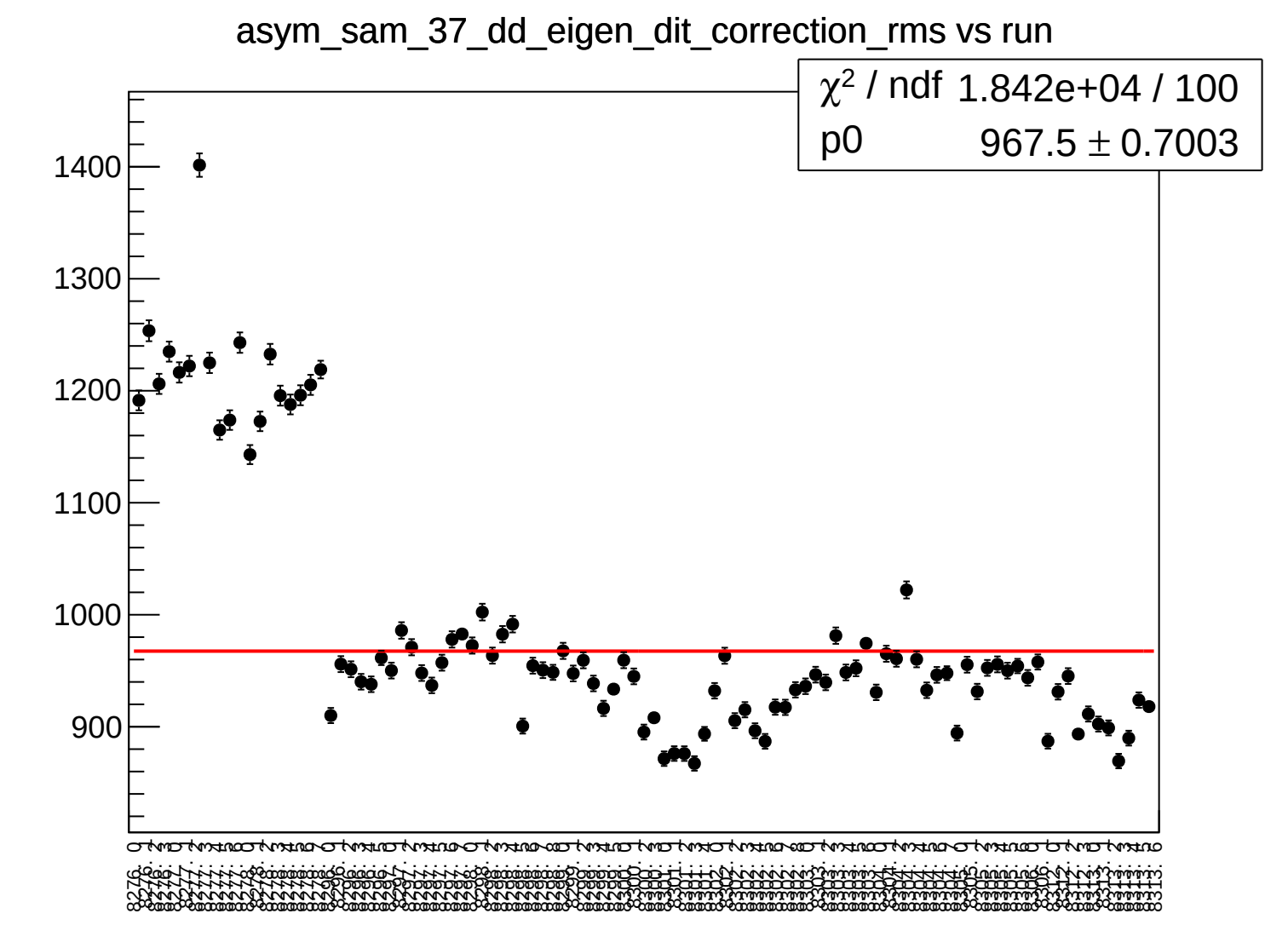

eigen_dit_asym_sam_37_dd_mean vs run
χ² / ndf 92.99 / 100
p0 −57.26 ± 119.1
4000
2000
0
−2000
−4000
pull
Entries 101
Mean 19.75
Std Dev 67.86
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

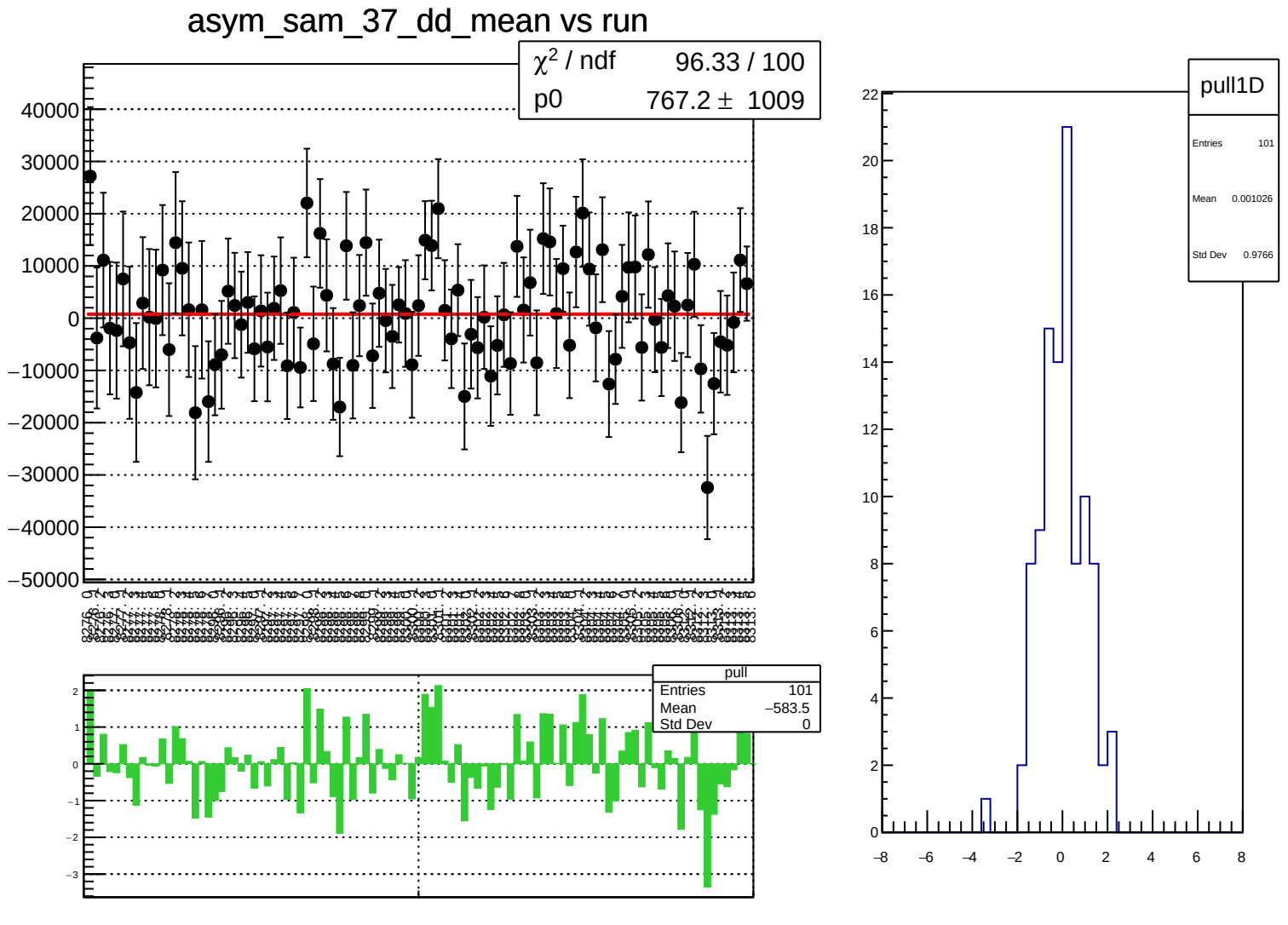

pull1D
Entries 101
Mean 0.01678
Std Dev 0.9594
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

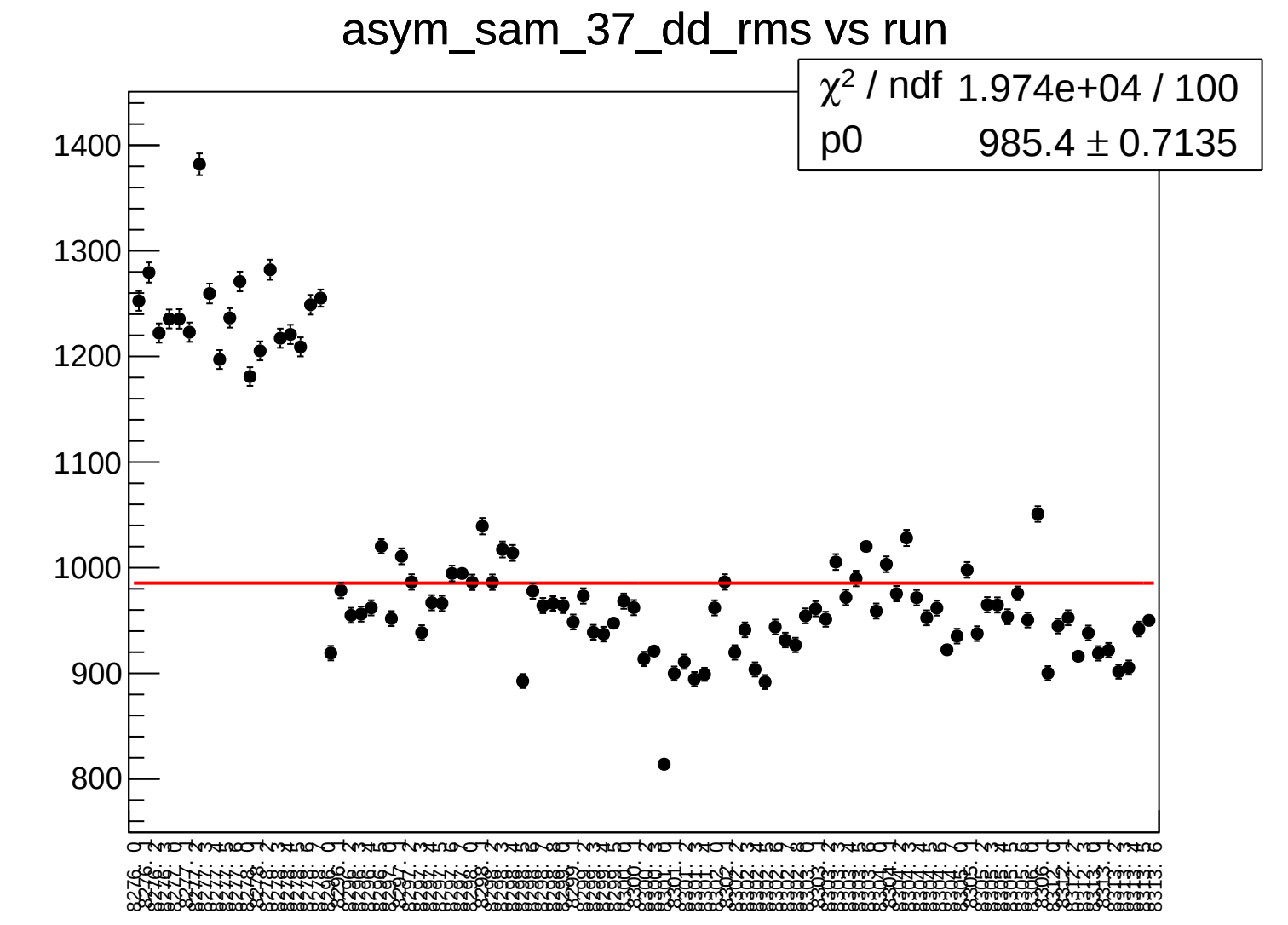

eigen_dit_asym_sam_37_dd_rms vs run
χ² / ndf 3.539e+04 / 100
p0 115.8 ± 0.08422
220
200
180
160
140
120
100
80

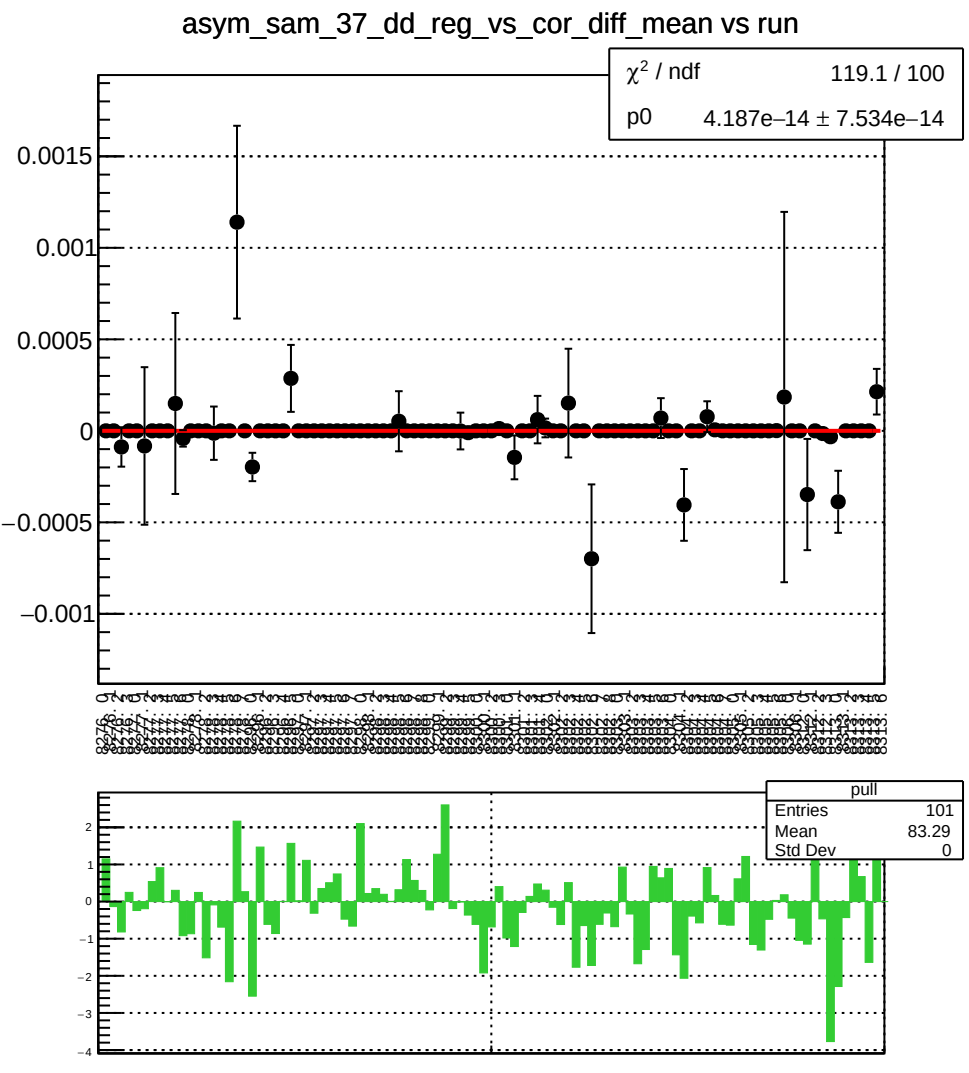

asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 96.76 / 100
p0 −823.5 ± 990.3
pull
Entries 101
Mean 693.4
Std Dev 0

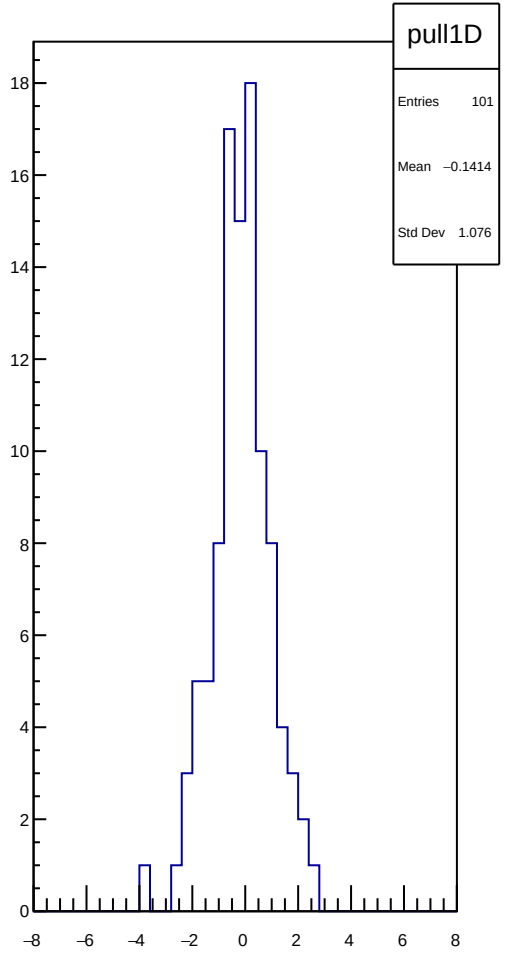

pull1D
Entries 101
Mean 0.001064
Std Dev 0.9788

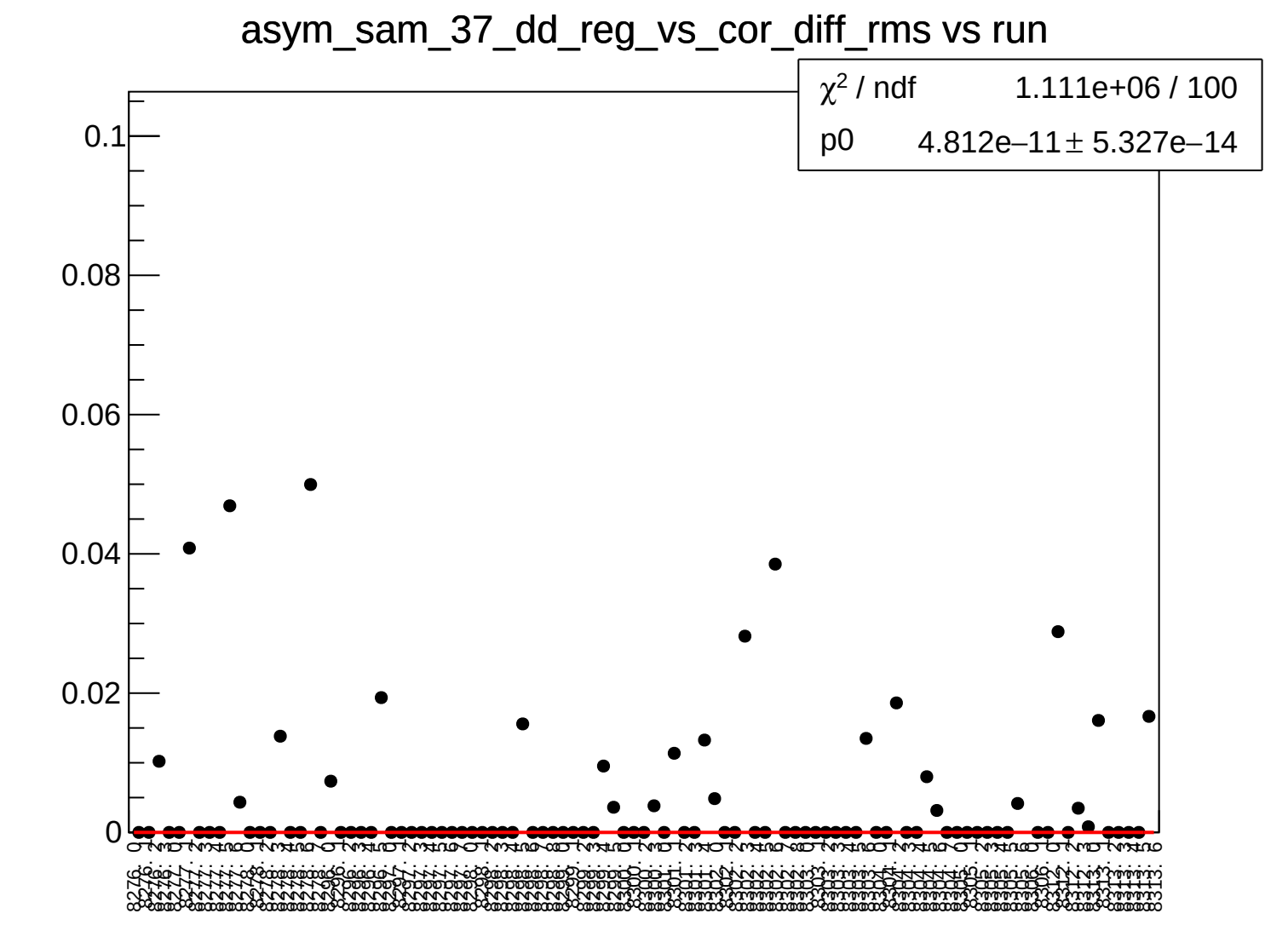

asym_sam_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.842e+04 / 100
p0 967.5 ± 0.7003
1400
1300
1200
1100
1000
900

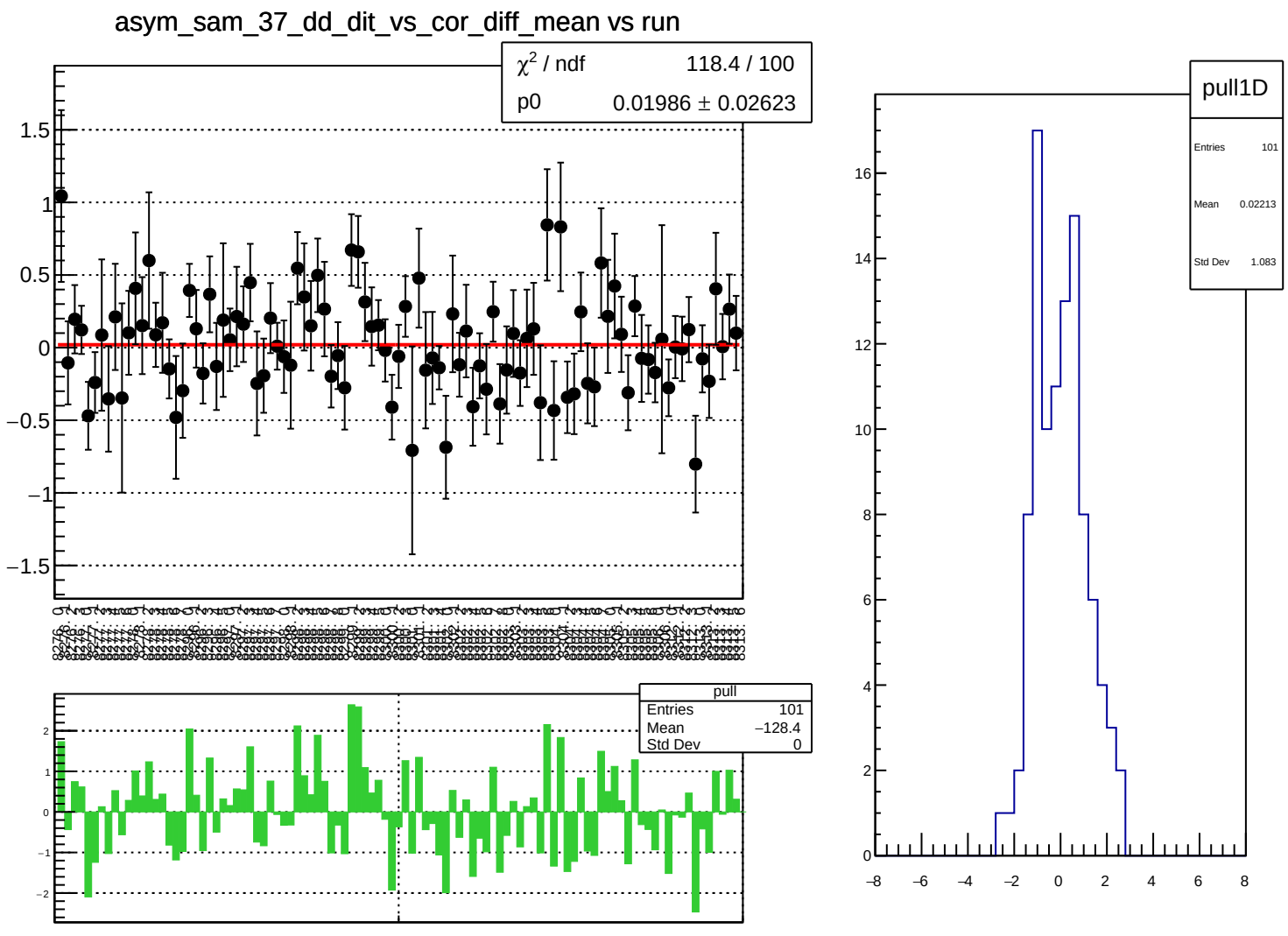

asym_sam_37_dd_mean vs run
χ² / ndf 96.33 / 100
p0 767.2 ± 1009
pull
Entries 101
Mean −583.5
Std Dev 0
pull1D
Entries 101
Mean 0.001026
Std Dev 0.9766

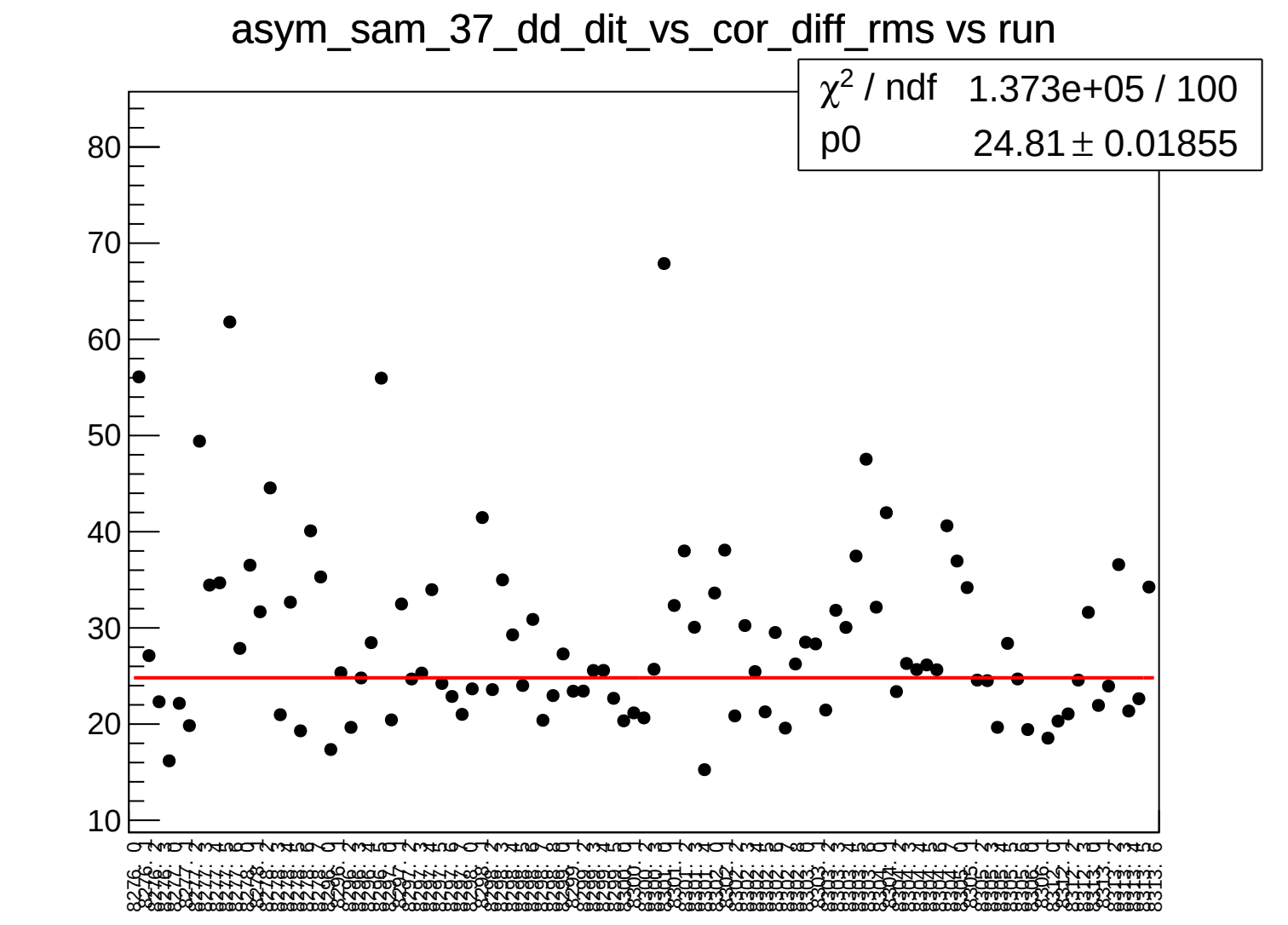

asym_sam_37_dd_rms vs run
χ² / ndf 1.974e+04 / 100
p0 985.4 ± 0.7135
1400
1300
1200
1100
1000
900
800

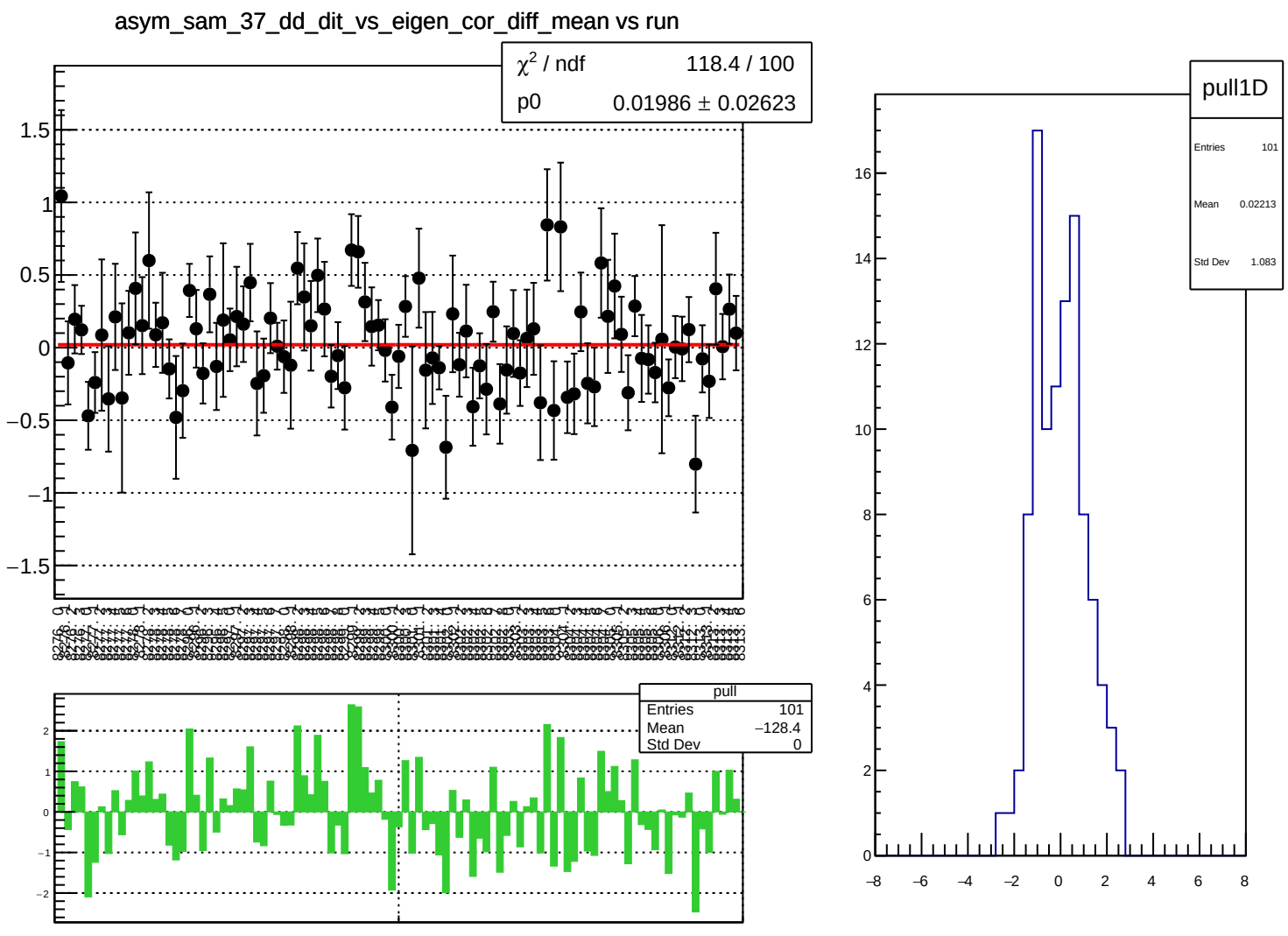

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 119.1 / 100
p0 4.187e−14 ± 7.534e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 101
Mean 83.29
Std Dev 0
2
1
0
−1
−2
−3
−4

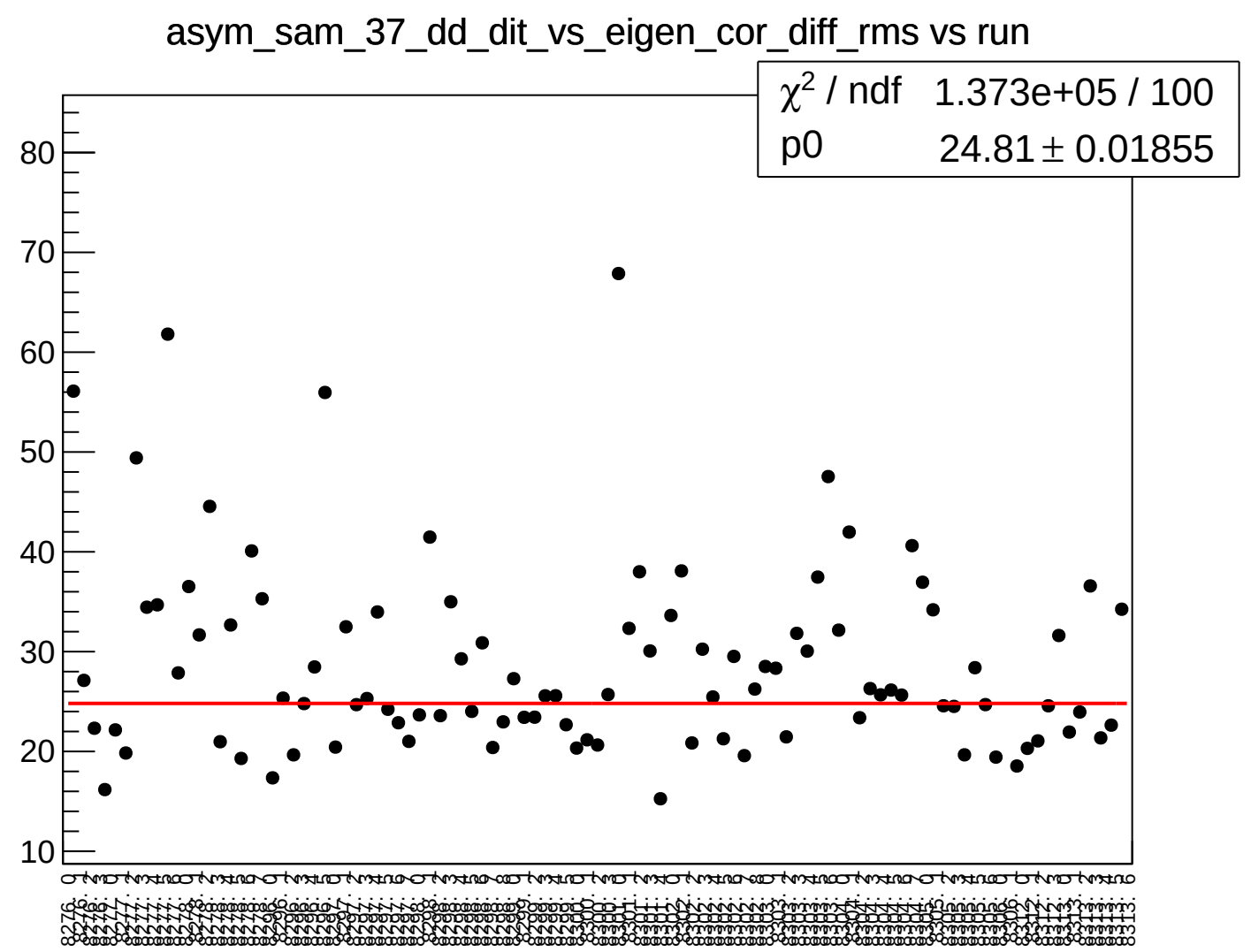

pull1D
Entries 101
Mean −0.1414
Std Dev 1.076
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

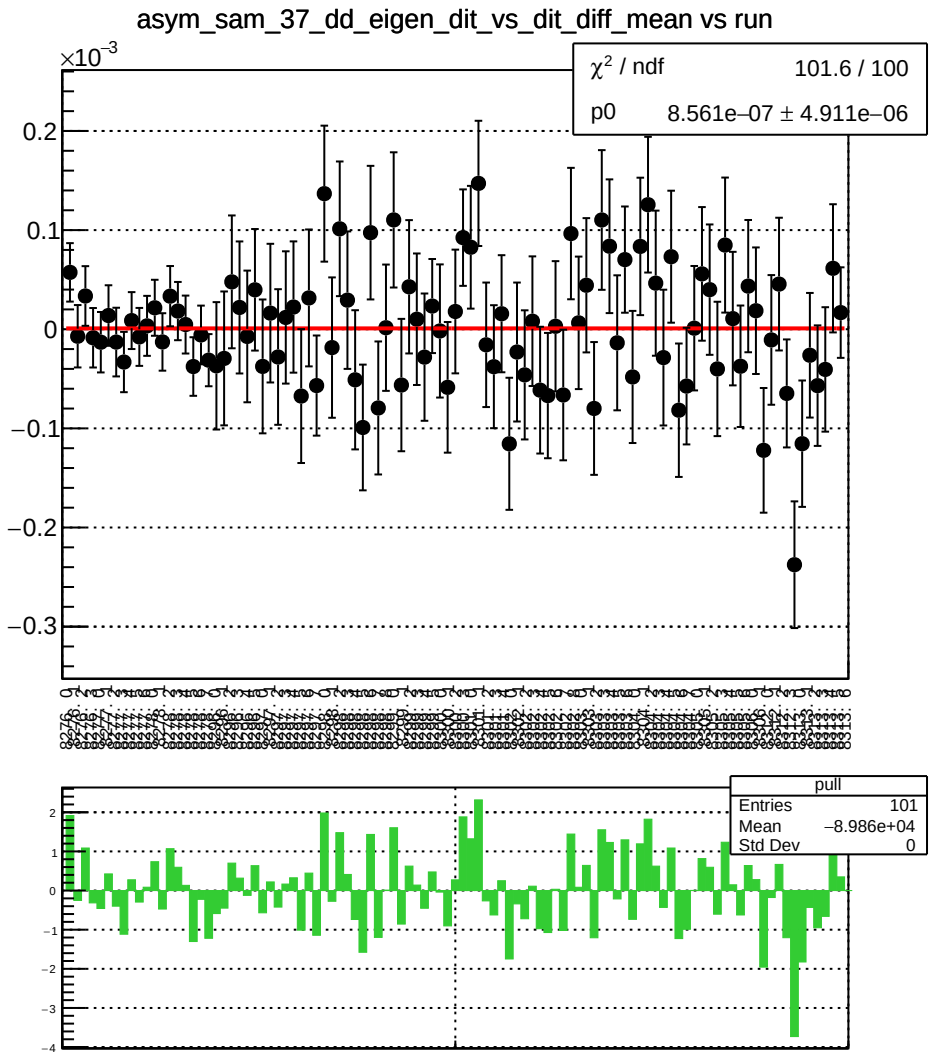

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.111e+06 / 100
p0 4.812e−11 ± 5.327e−14
0.1
0.08
0.06
0.04
0.02
0

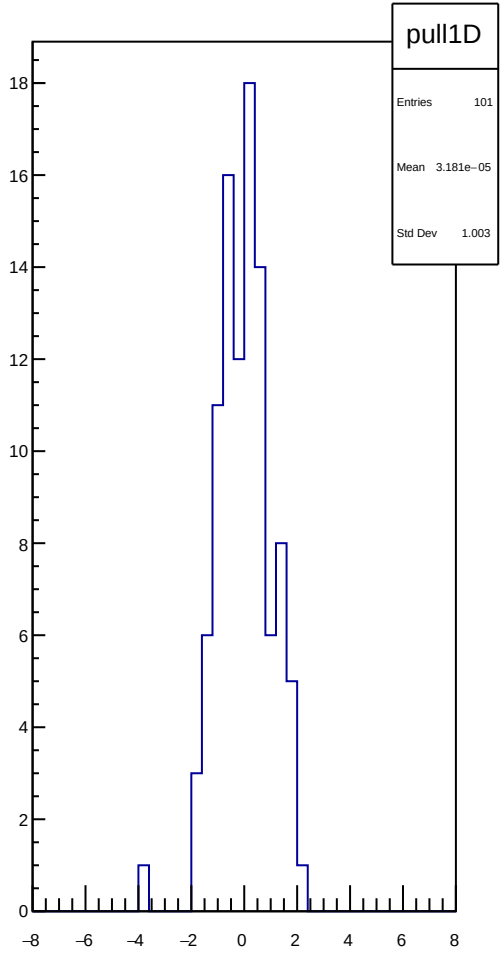

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 118.4 / 100
p0 0.01986 ± 0.02623
pull
Entries 101
Mean −128.4
Std Dev 0
pull1D
Entries 101
Mean 0.02213
Std Dev 1.083

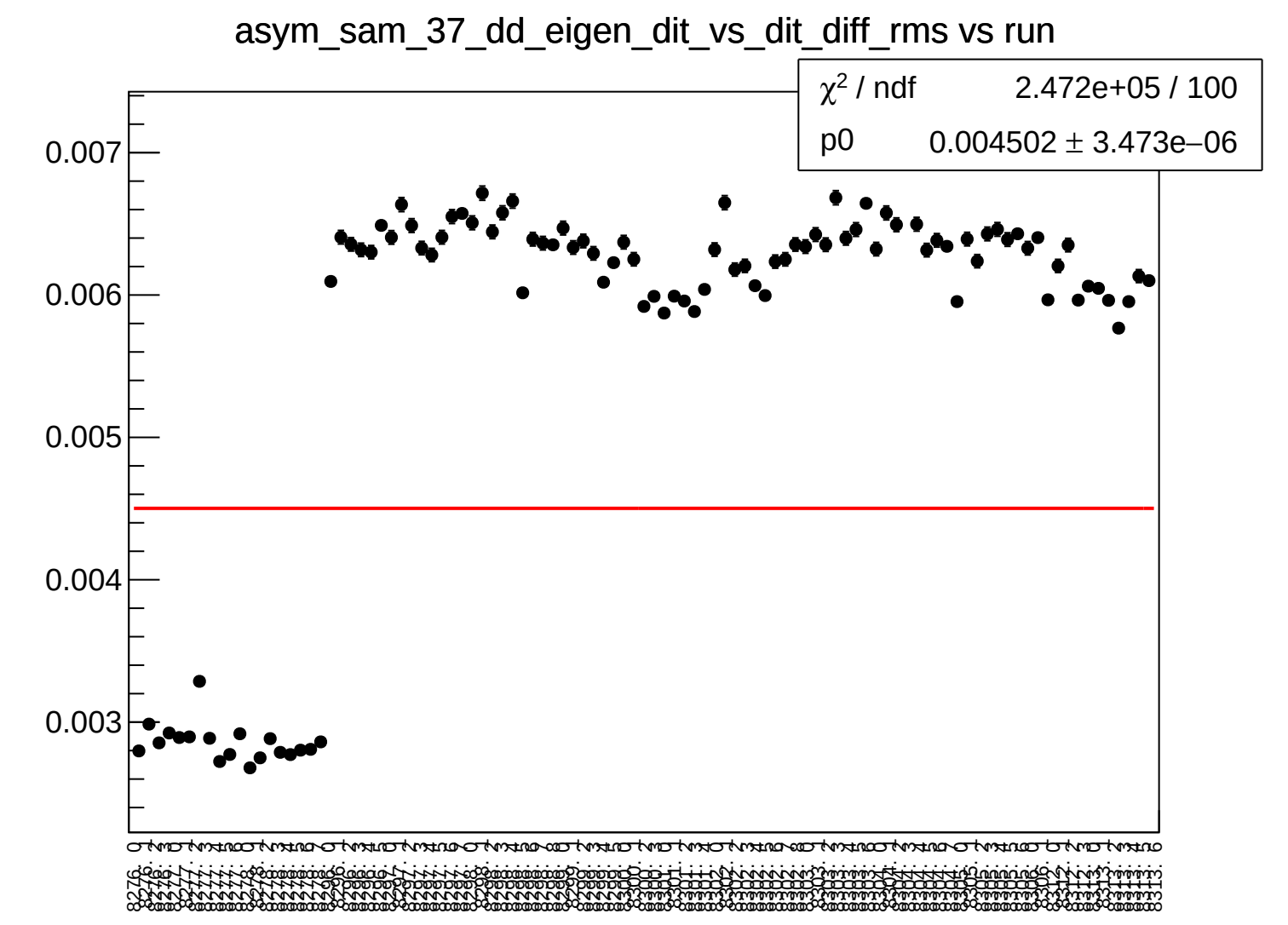

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.373e+05 / 100
p0 24.81 ± 0.01855
80
70
60
50
40
30
20
10

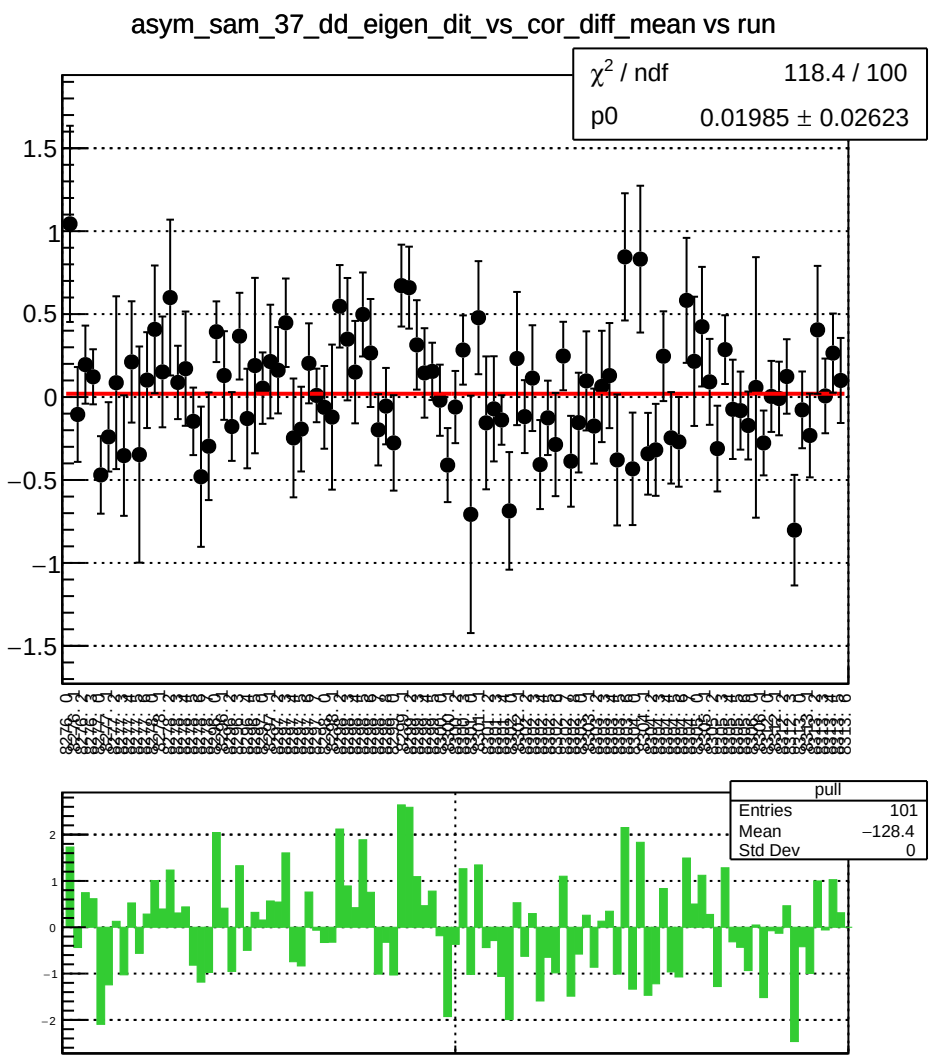

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 118.4 / 100
p0 0.01986 ± 0.02623
pull
Entries 101
Mean −128.4
Std Dev 0
pull1D
Entries 101
Mean 0.02213
Std Dev 1.083

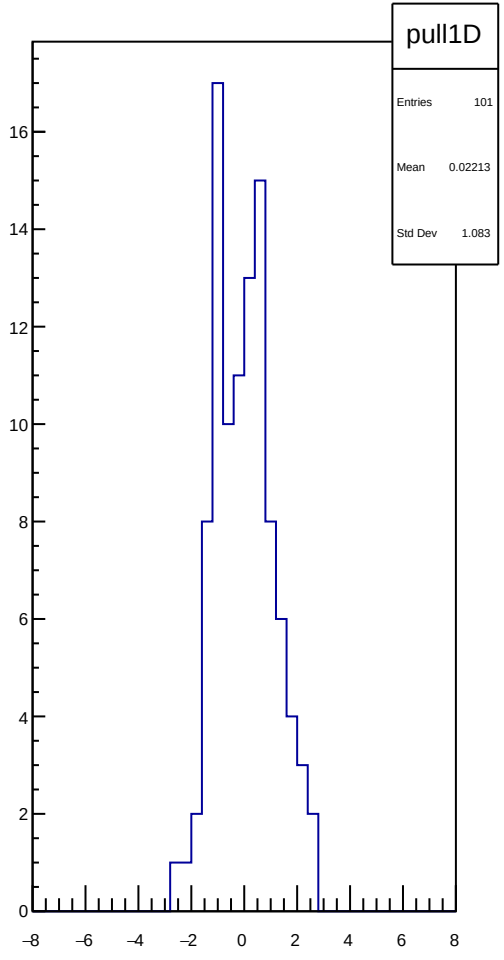

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.373e+05 / 100
p0 24.81 ± 0.01855
80
70
60
50
40
30
20
10

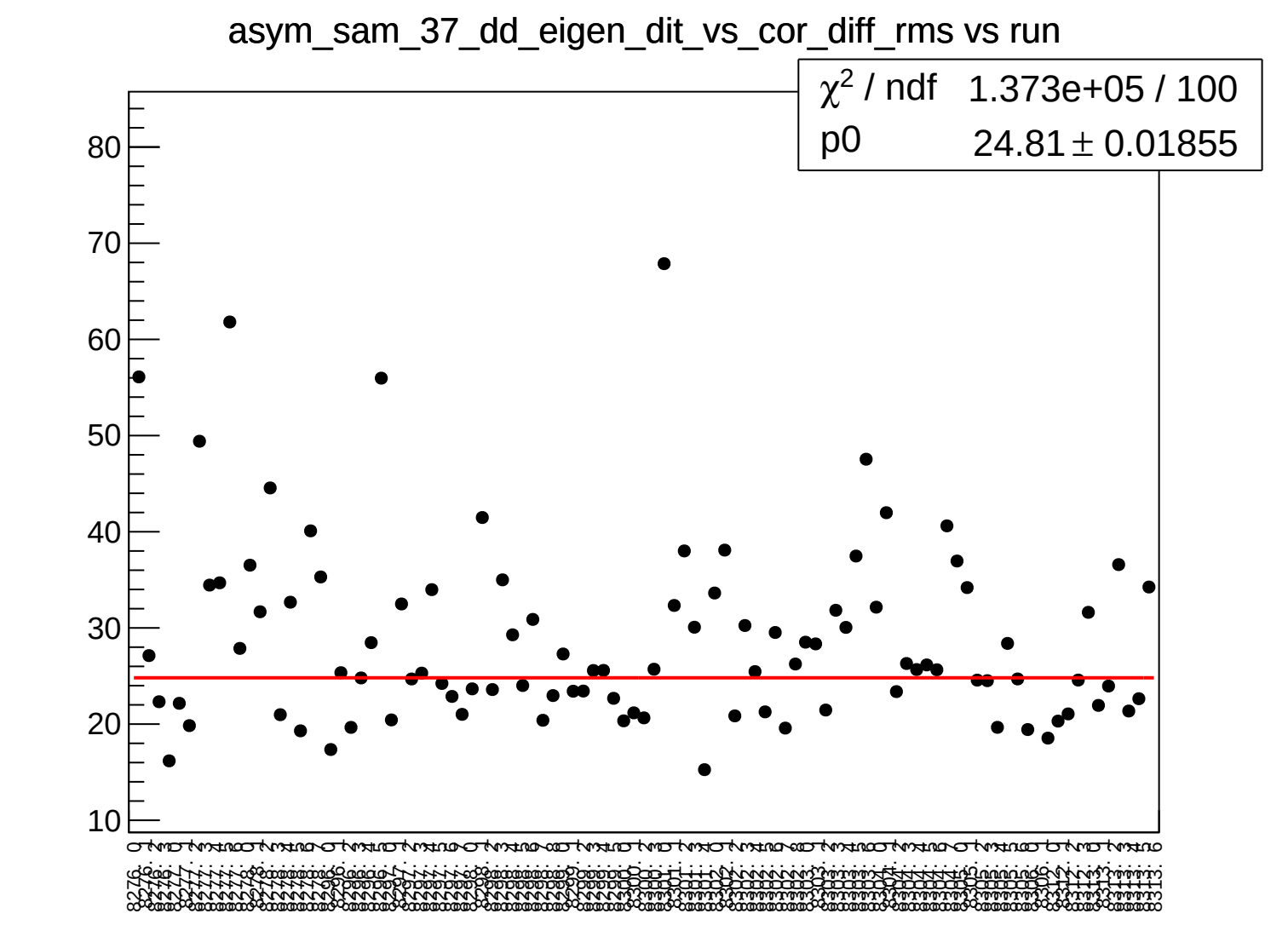

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.6 / 100
p0 8.561e−07 ± 4.911e−06
pull
Entries 101
Mean −8.986e+04
Std Dev 0

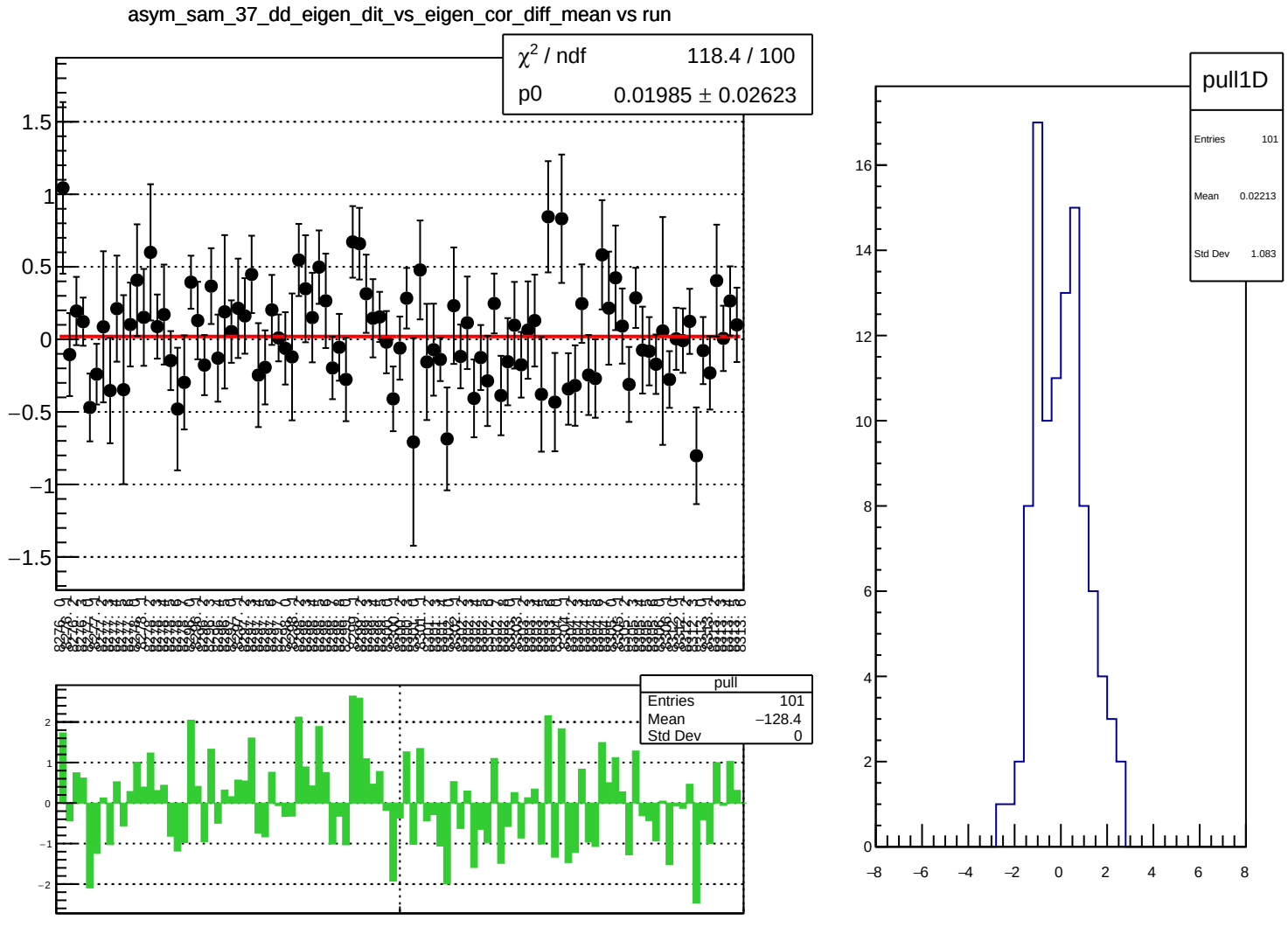

pull1D
Entries 101
Mean 3.181e−05
Std Dev 1.003

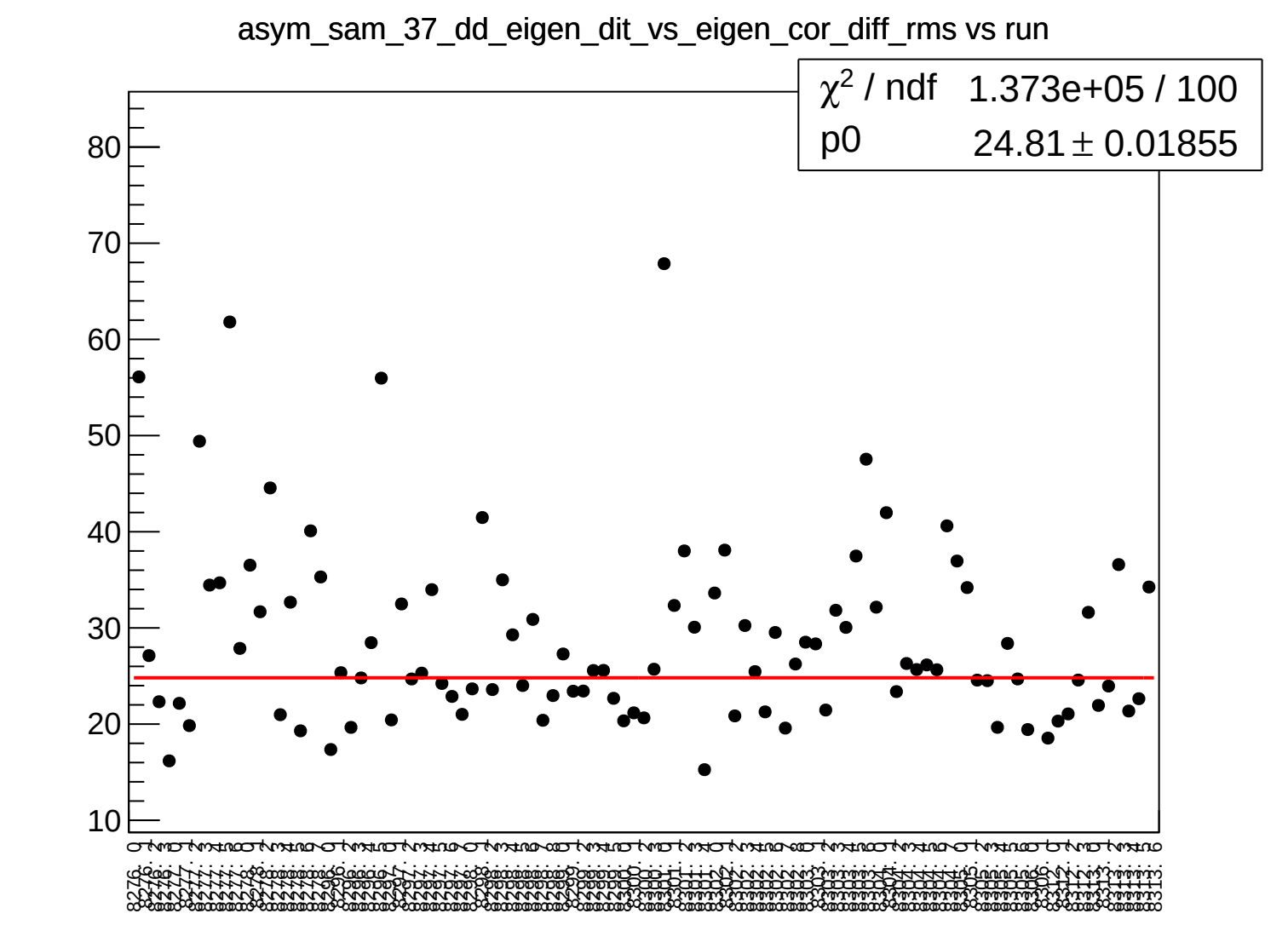

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.472e+05 / 100
p0 0.004502 ± 3.473e−06
0.007
0.006
0.005
0.004
0.003

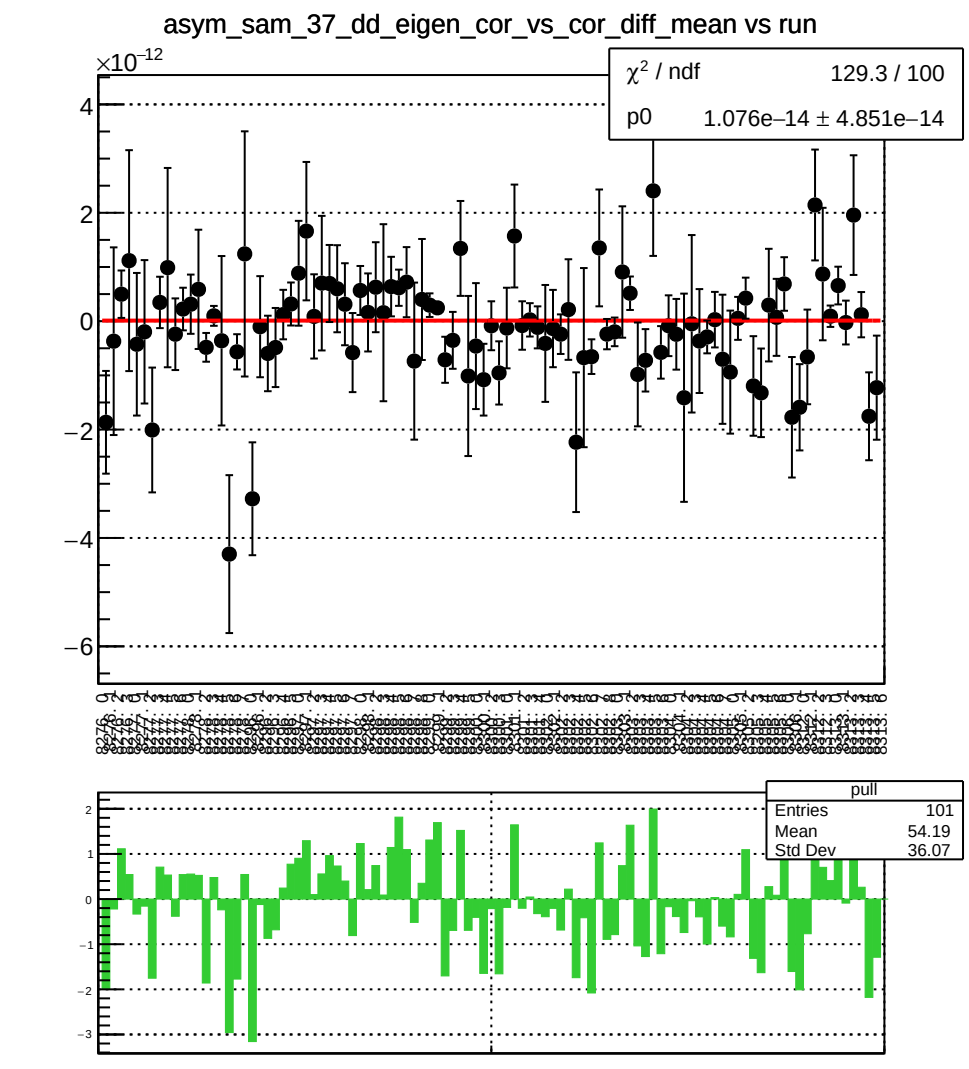

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 118.4 / 100
p0 0.01985 ± 0.02623
pull
Entries 101
Mean −128.4
Std Dev 0

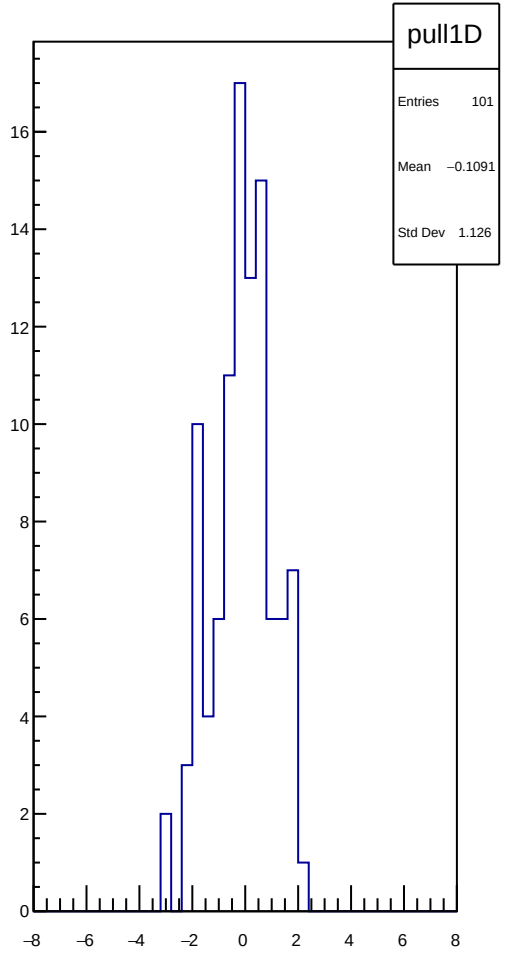

pull1D
Entries 101
Mean 0.02213
Std Dev 1.083

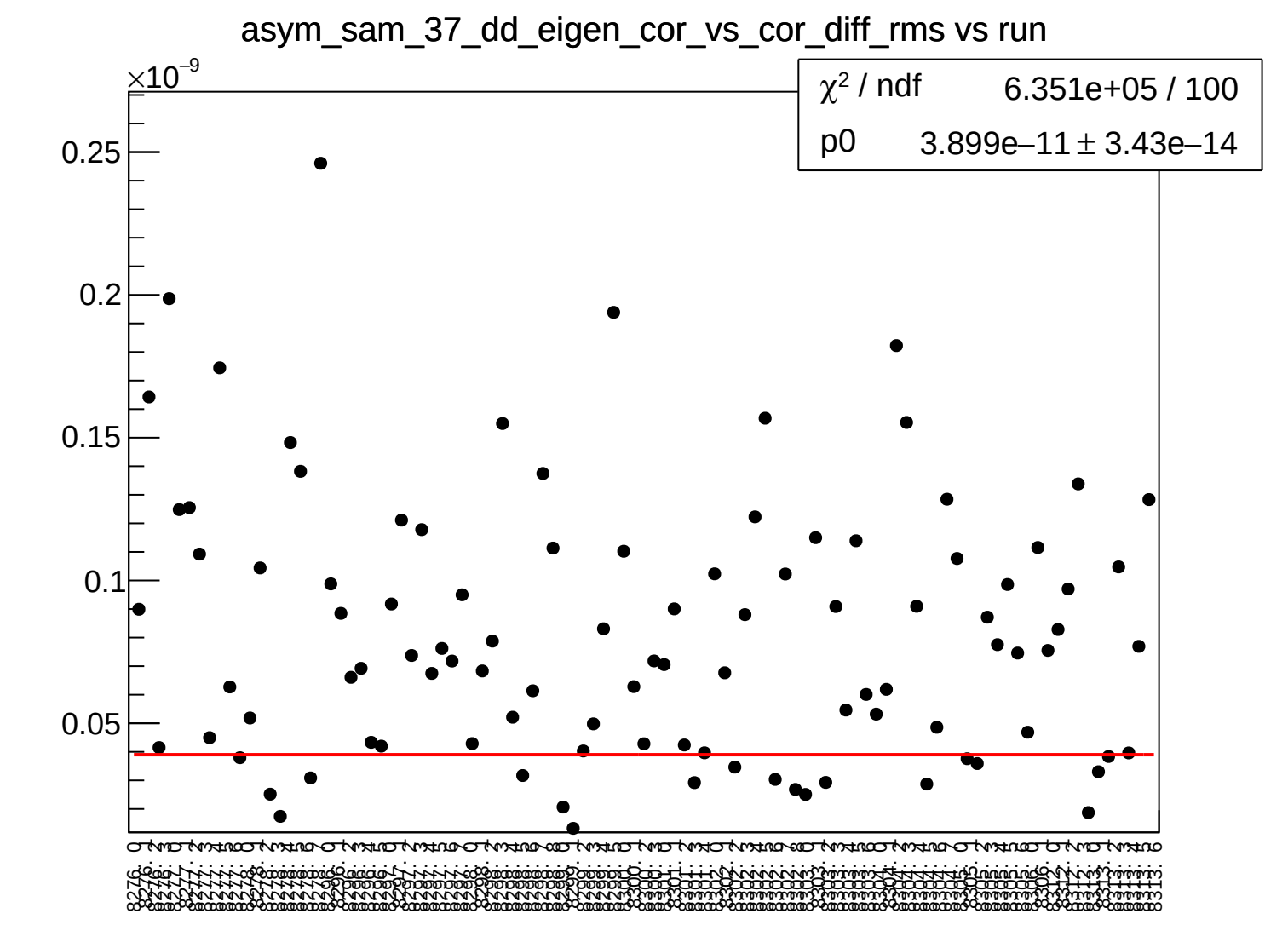

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.373e+05 / 100
p0 24.81 ± 0.01855
80
70
60
50
40
30
20
10

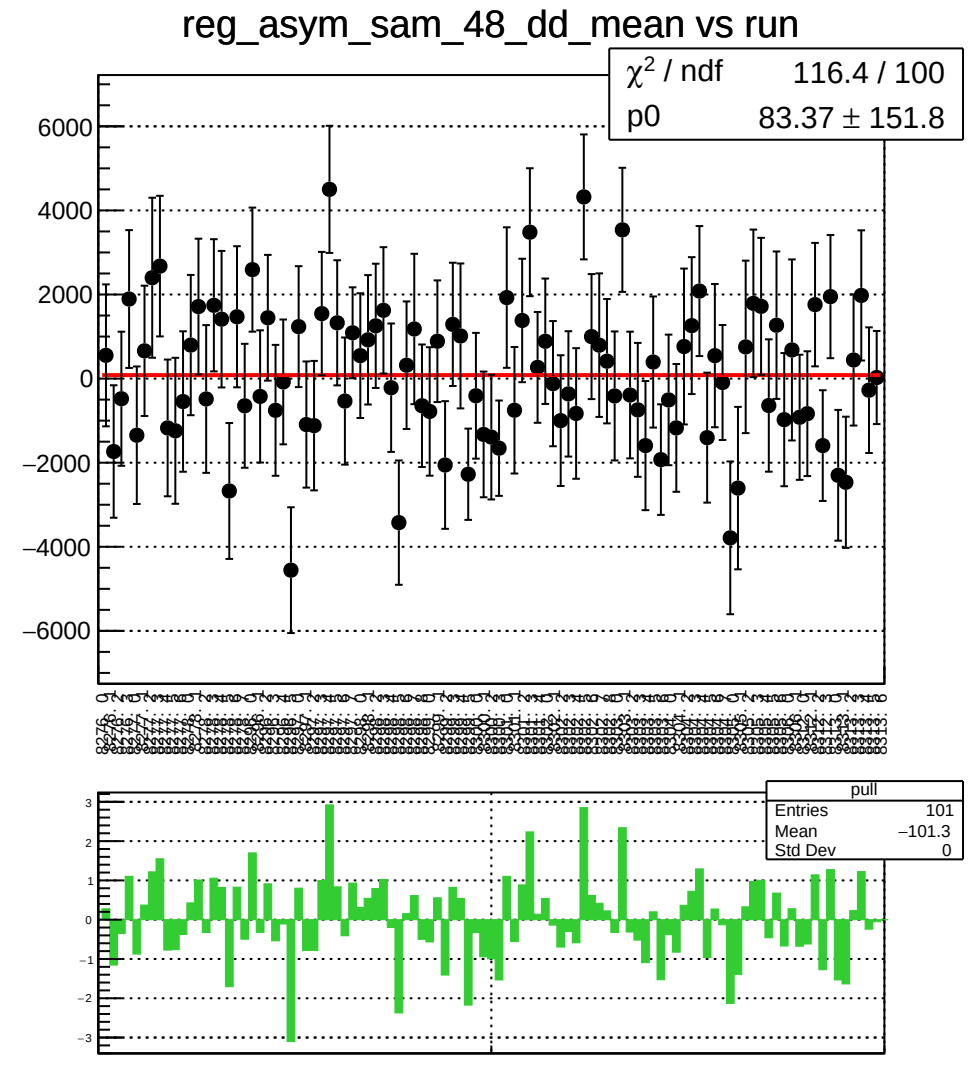

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 118.4 / 100
p0 0.01985 ± 0.02623
pull
Entries 101
Mean −128.4
Std Dev 0
pull1D
Entries 101
Mean 0.02213
Std Dev 1.083

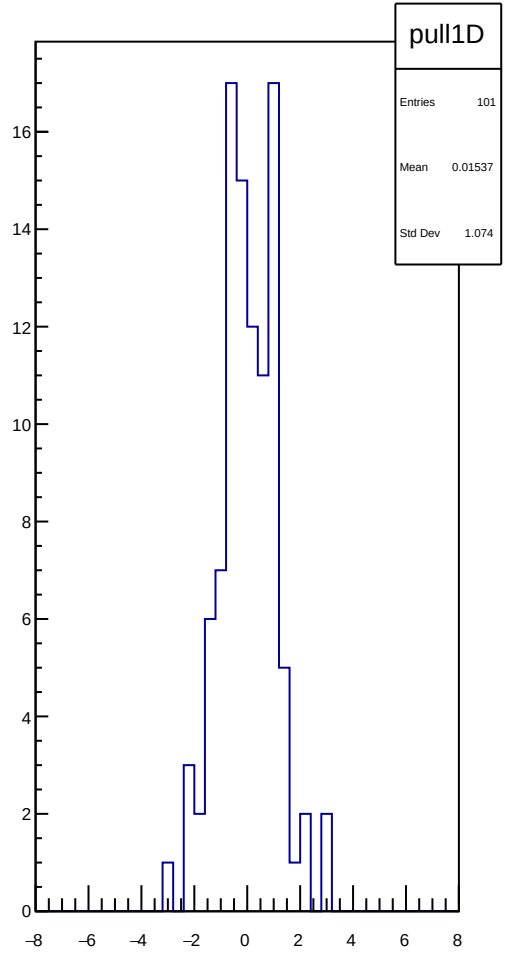

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.373e+05 / 100
p0 24.81 ± 0.01855
80
70
60
50
40
30
20
10

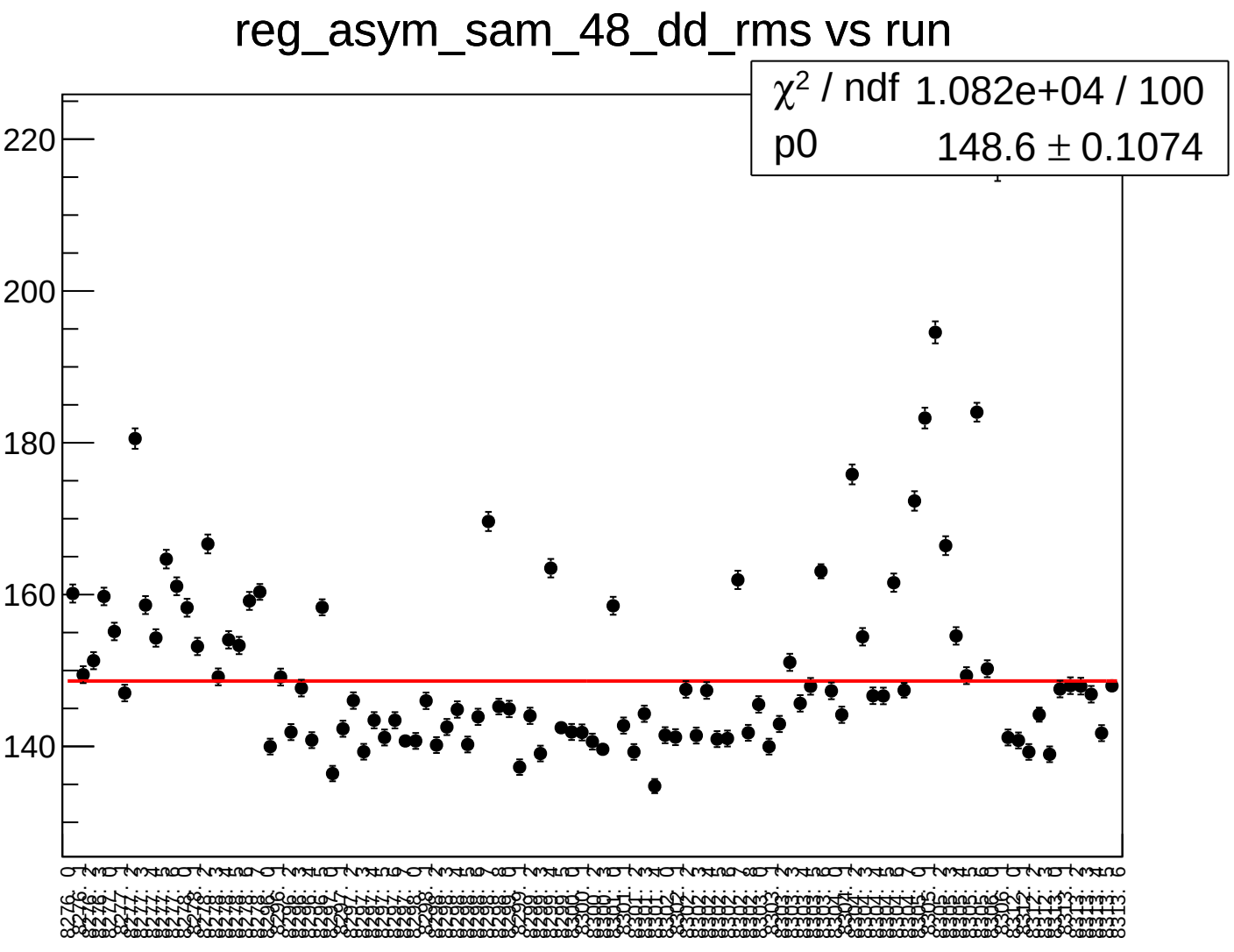

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 129.3 / 100
p0 1.076e−14 ± 4.851e−14
pull
Entries 101
Mean 54.19
Std Dev 36.07

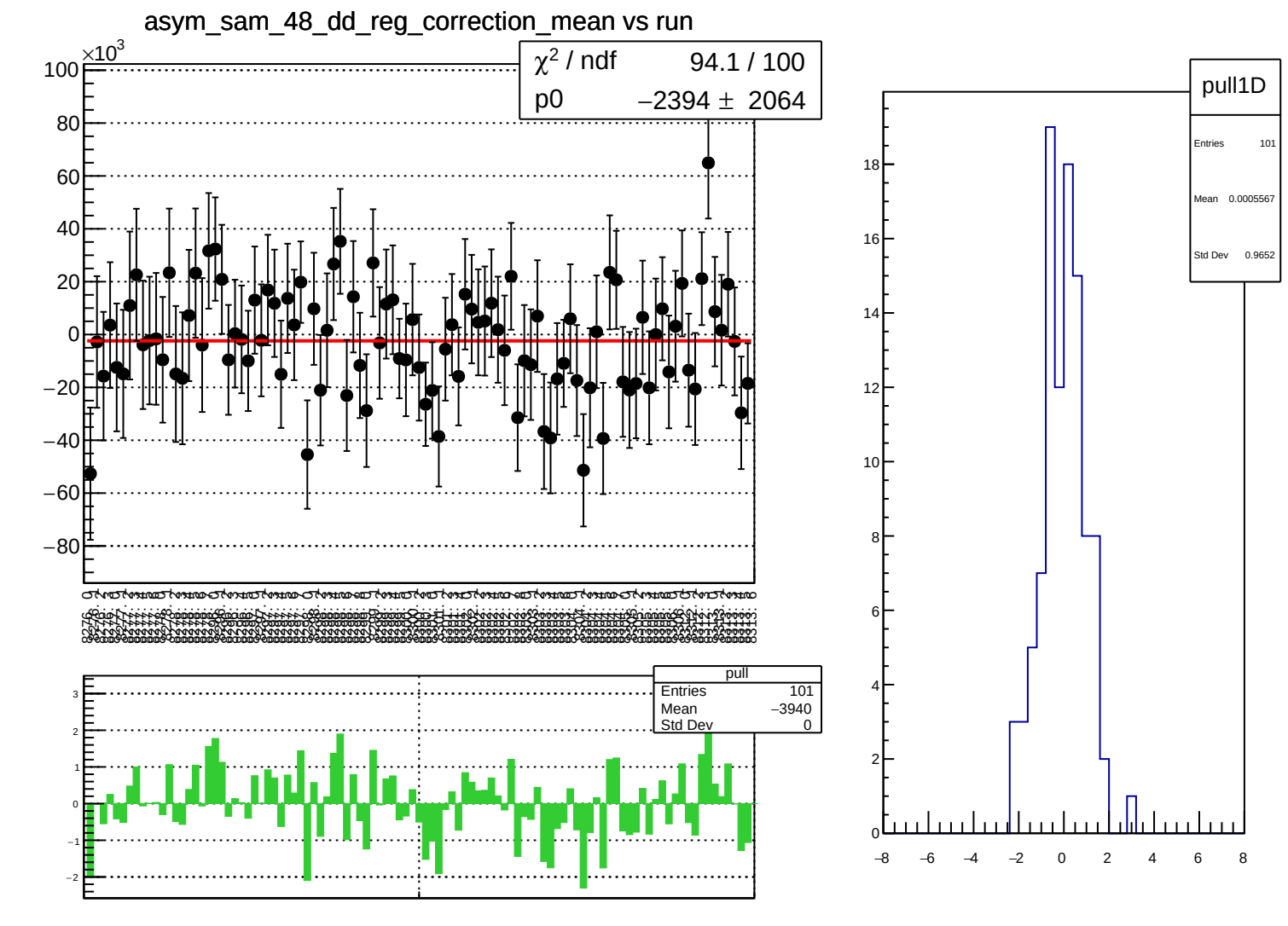

pull1D
Entries 101
Mean −0.1091
Std Dev 1.126

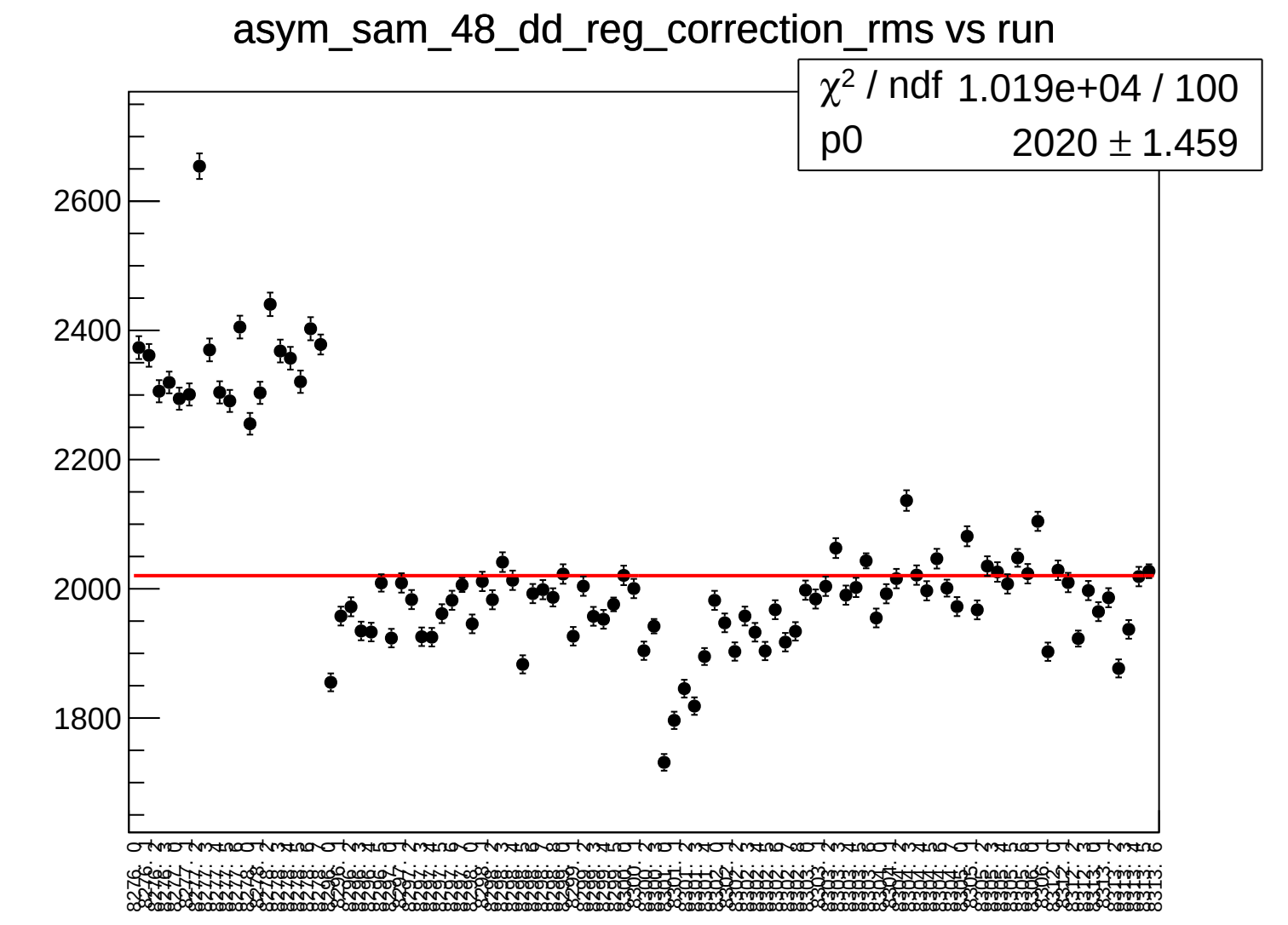

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.351e+05 / 100
p0 3.899e−11 ± 3.43e−14
0.25
0.2
0.15
0.1
0.05

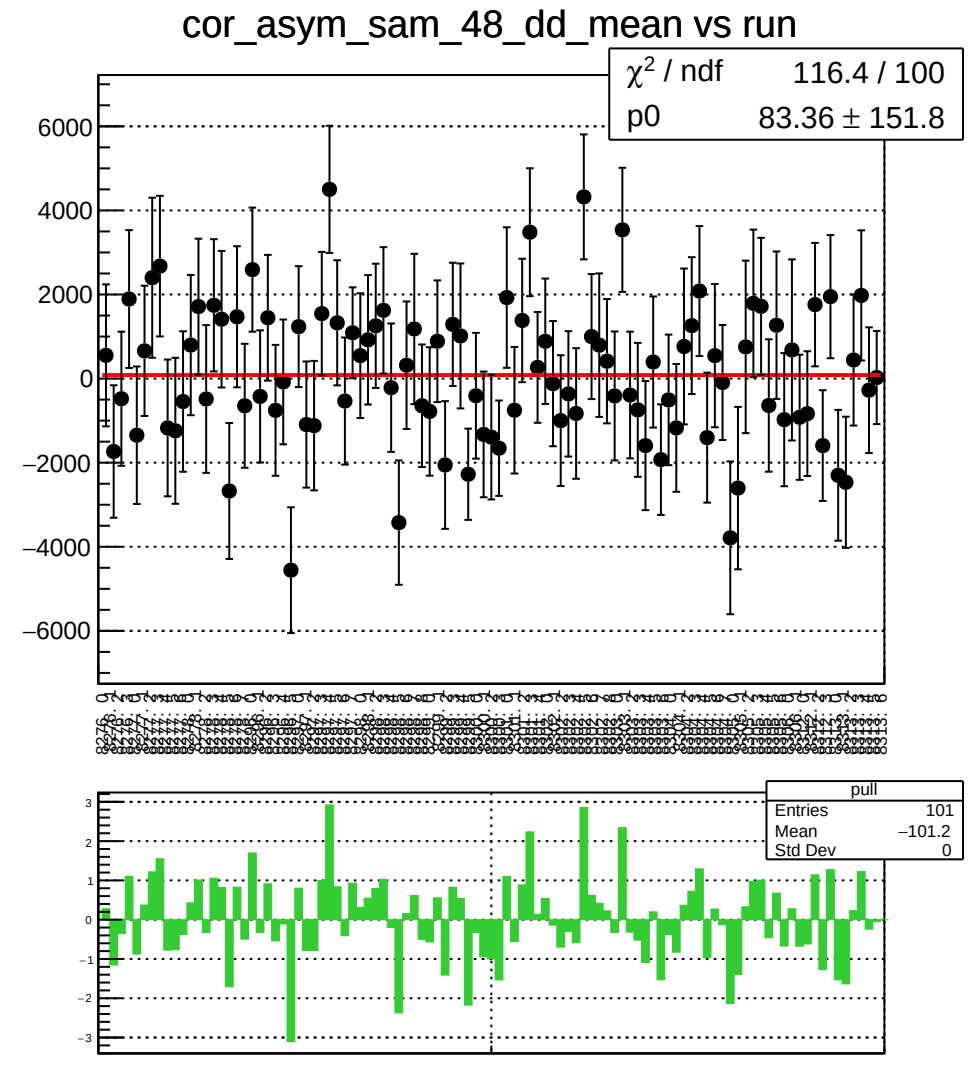

reg_asym_sam_48_dd_mean vs run
χ² / ndf 116.4 / 100
p0 83.37 ± 151.8
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 101
Mean −101.3
Std Dev 0
3
2
1
0
−1
−2
−3

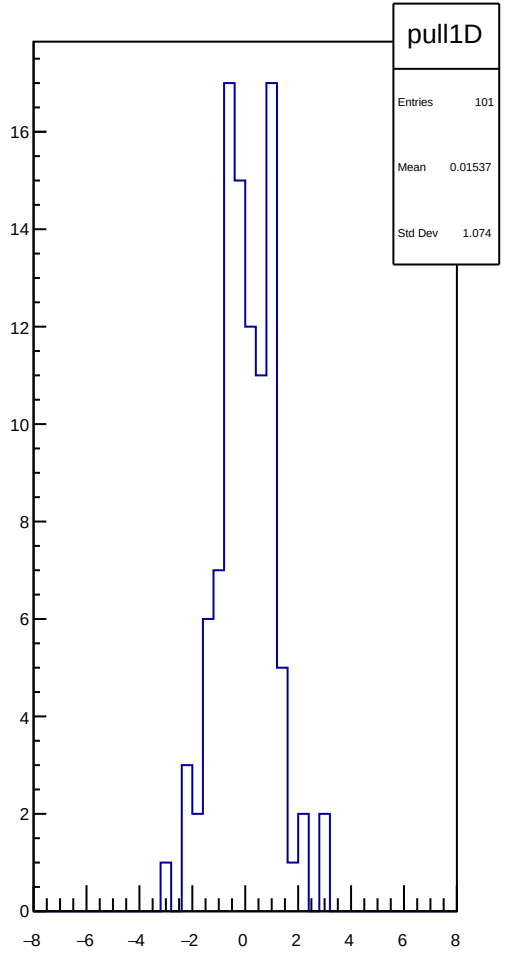

pull1D
Entries 101
Mean 0.01537
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

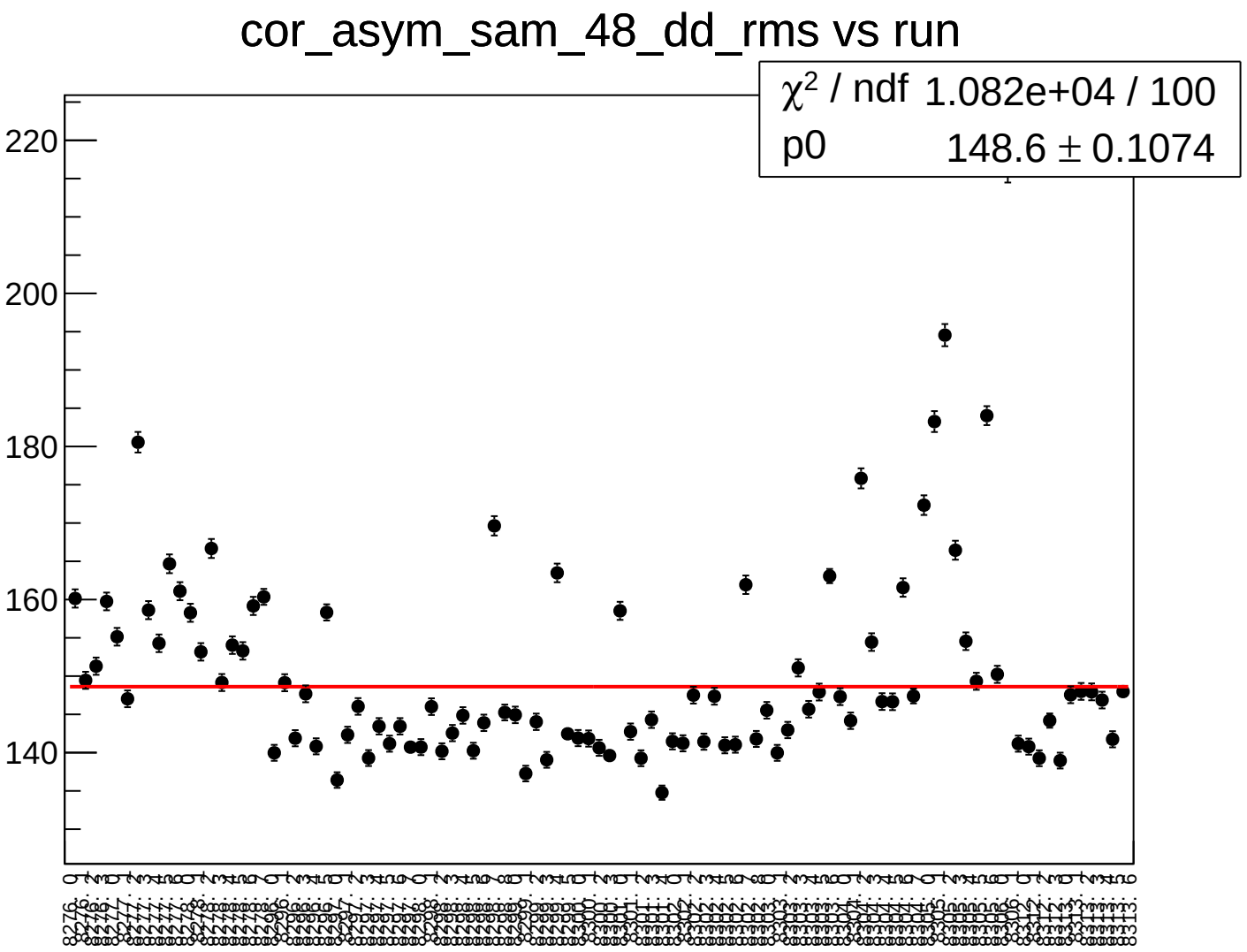

reg_asym_sam_48_dd_rms vs run
χ² / ndf 1.082e+04 / 100
p0 148.6 ± 0.1074
220
200
180
160
140

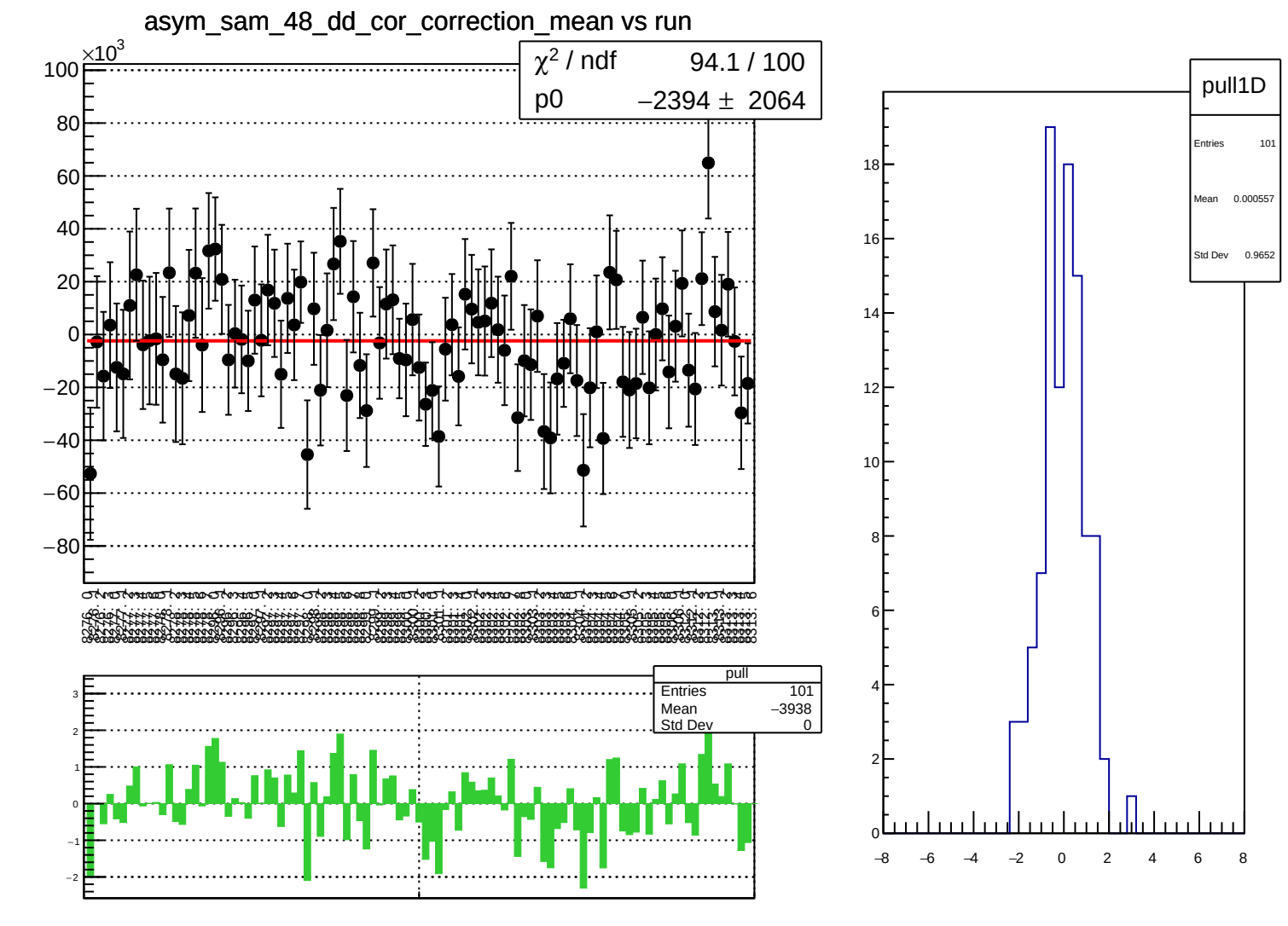

asym_sam_48_dd_reg_correction_mean vs run
×10^3
χ² / ndf 94.1 / 100
p0 −2394 ± 2064
pull
Entries 101
Mean −3940
Std Dev 0
pull1D
Entries 101
Mean 0.0005567
Std Dev 0.9652

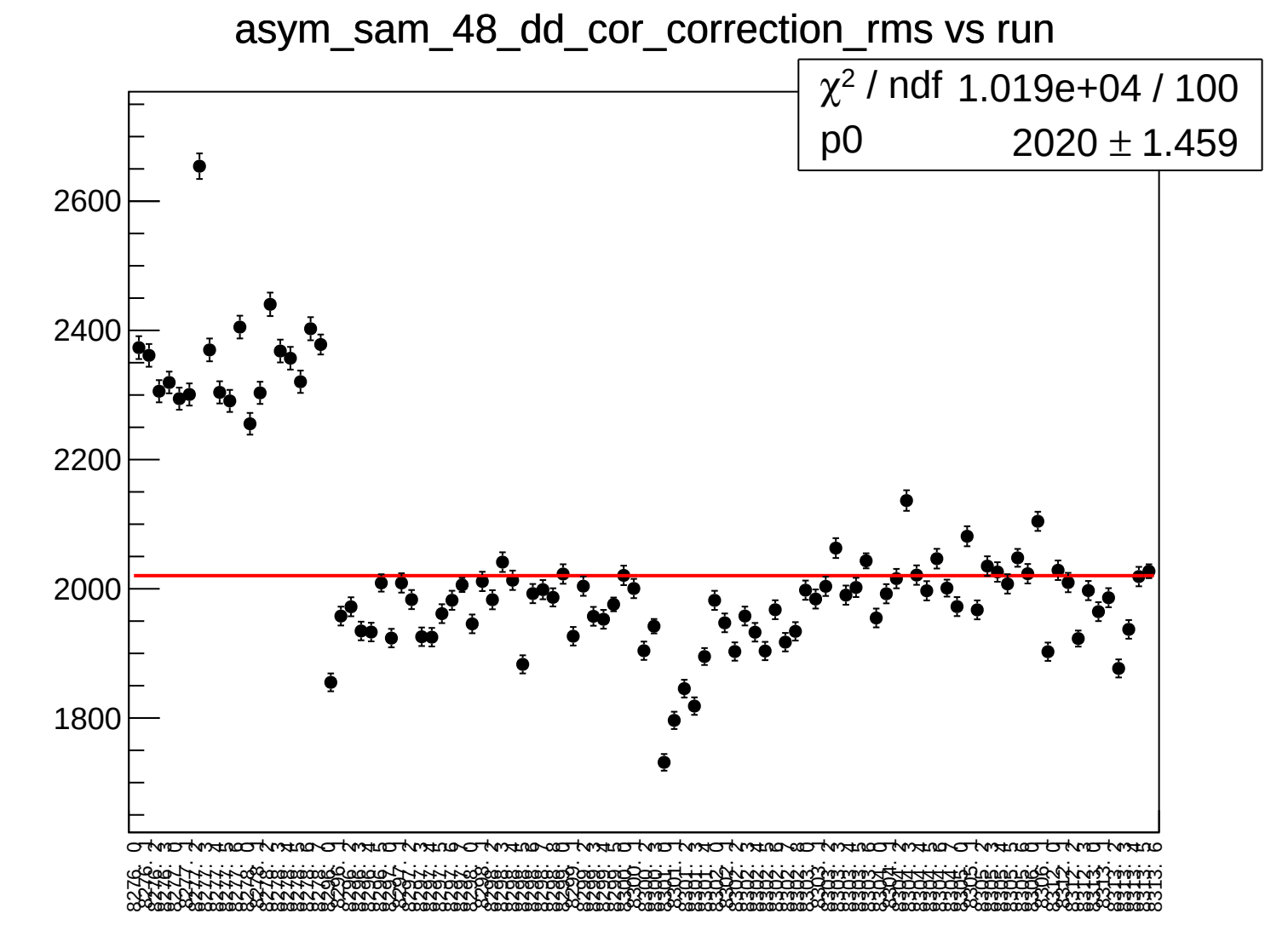

asym_sam_48_dd_reg_correction_rms vs run
χ² / ndf 1.019e+04 / 100
p0 2020 ± 1.459
2600
2400
2200
2000
1800

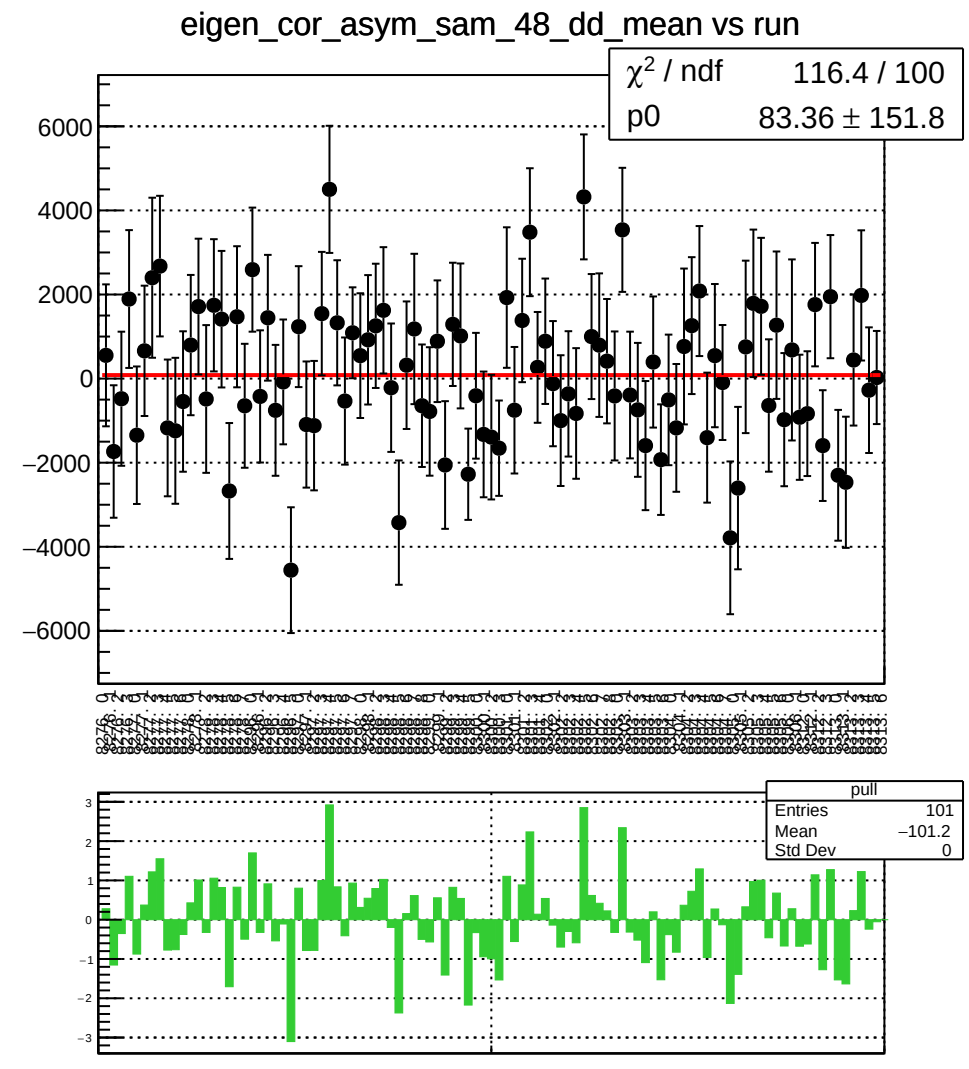

cor_asym_sam_48_dd_mean vs run
χ² / ndf 116.4 / 100
p0 83.36 ± 151.8
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 101
Mean −101.2
Std Dev 0
3
2
1
0
−1
−2
−3

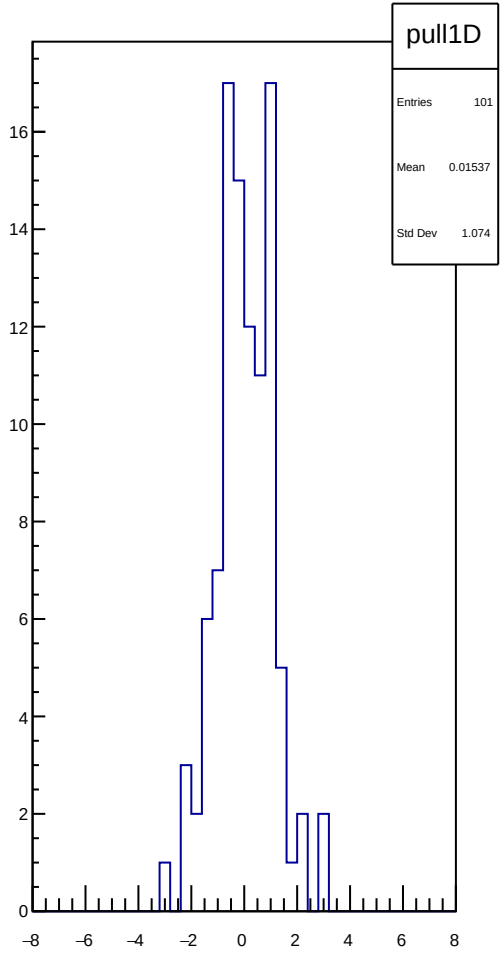

pull1D
Entries 101
Mean 0.01537
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

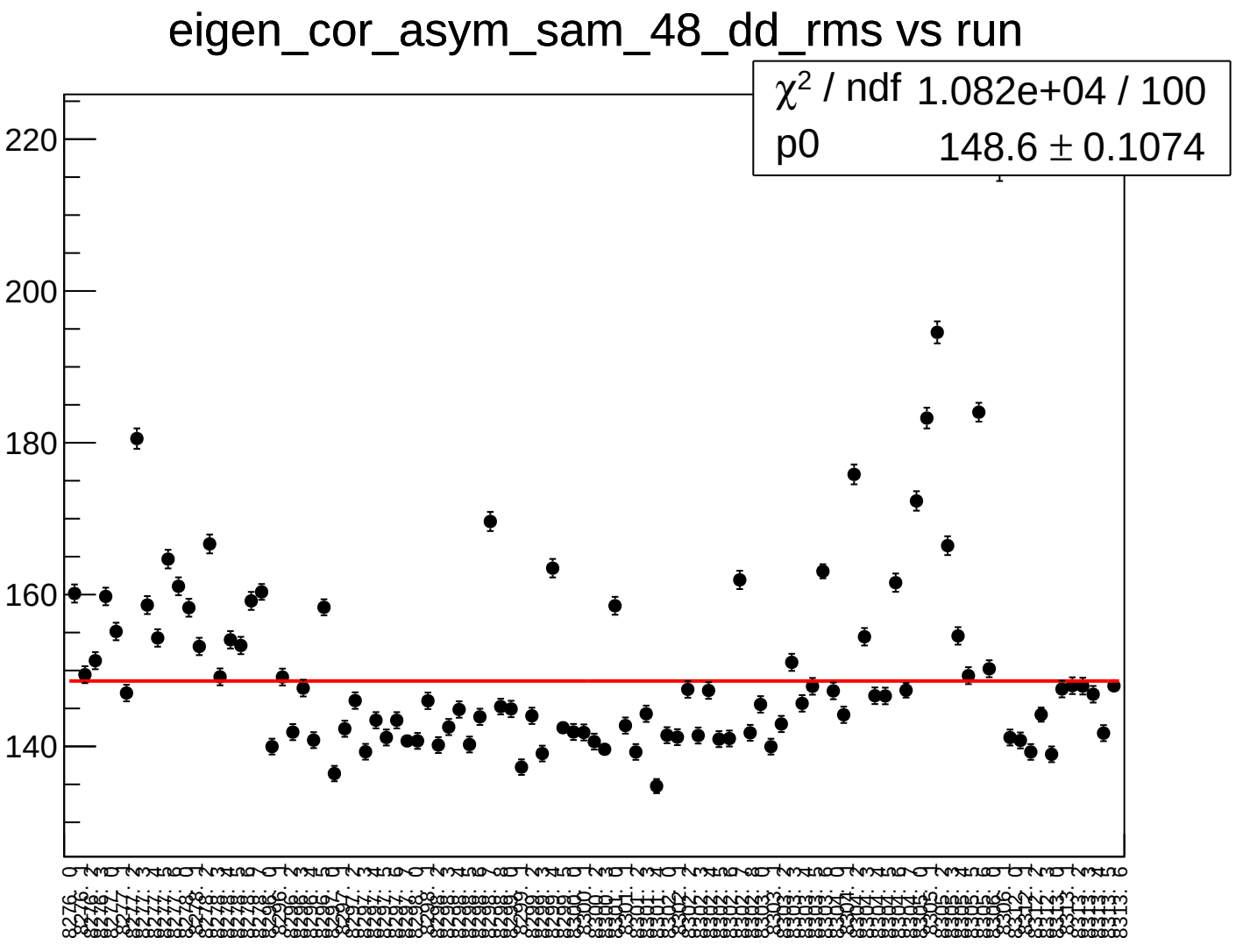

cor_asym_sam_48_dd_rms vs run
χ² / ndf 1.082e+04 / 100
p0 148.6 ± 0.1074
220
200
180
160
140

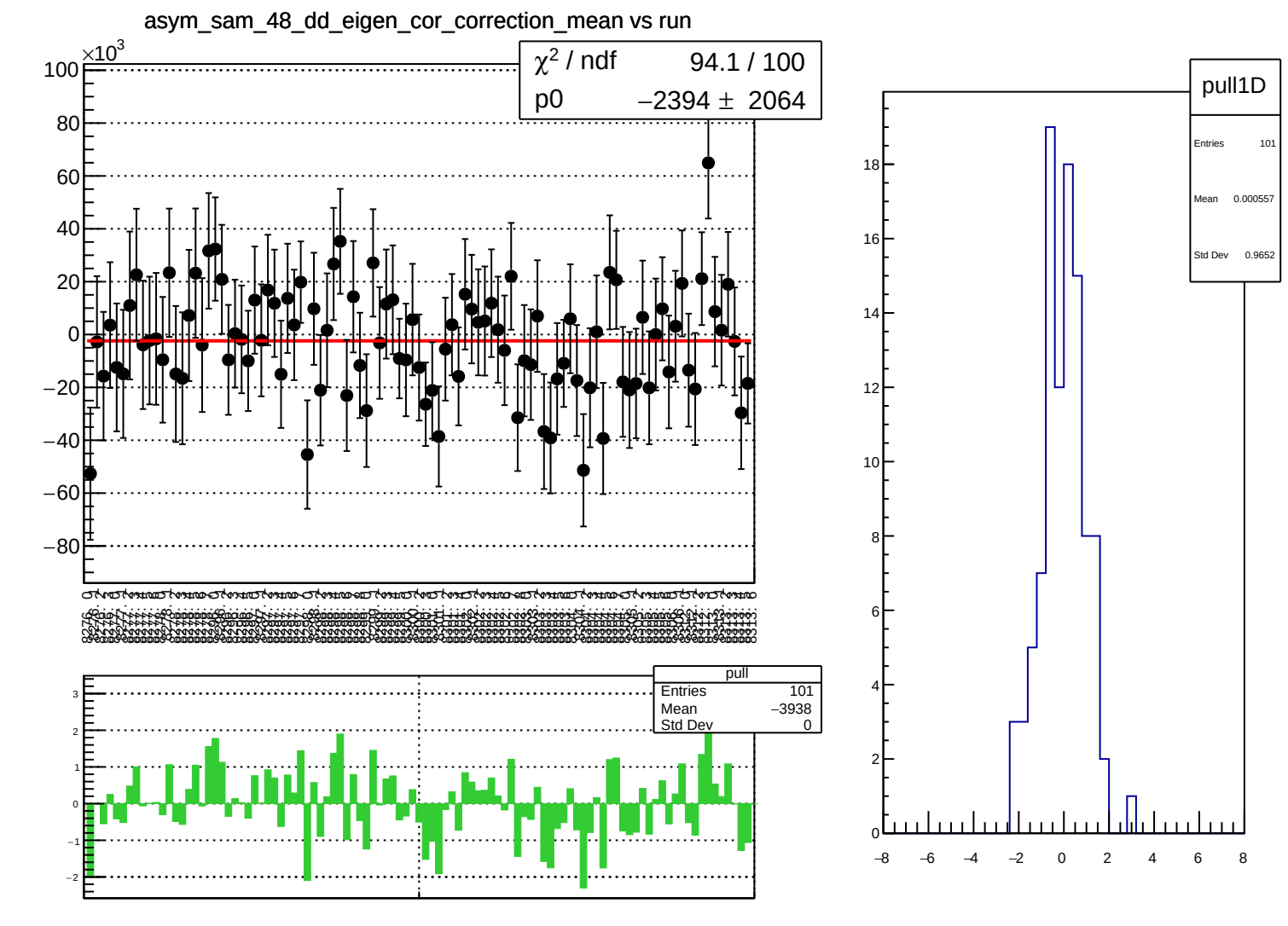

asym_sam_48_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 94.1 / 100
p0 −2394 ± 2064
pull
Entries 101
Mean −3938
Std Dev 0
pull1D
Entries 101
Mean 0.000557
Std Dev 0.9652

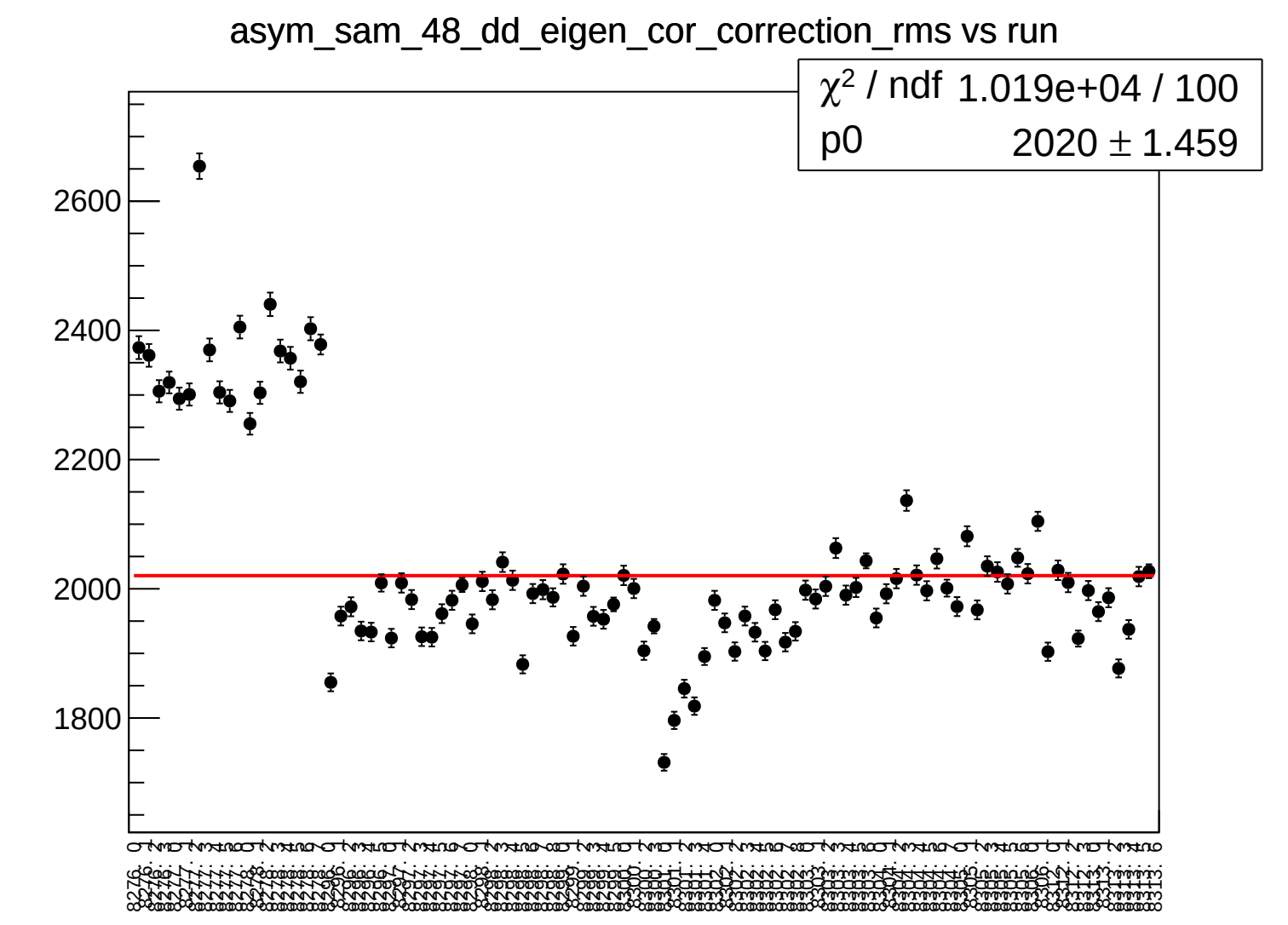

asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 1.019e+04 / 100
p0 2020 ± 1.459
2600
2400
2200
2000
1800

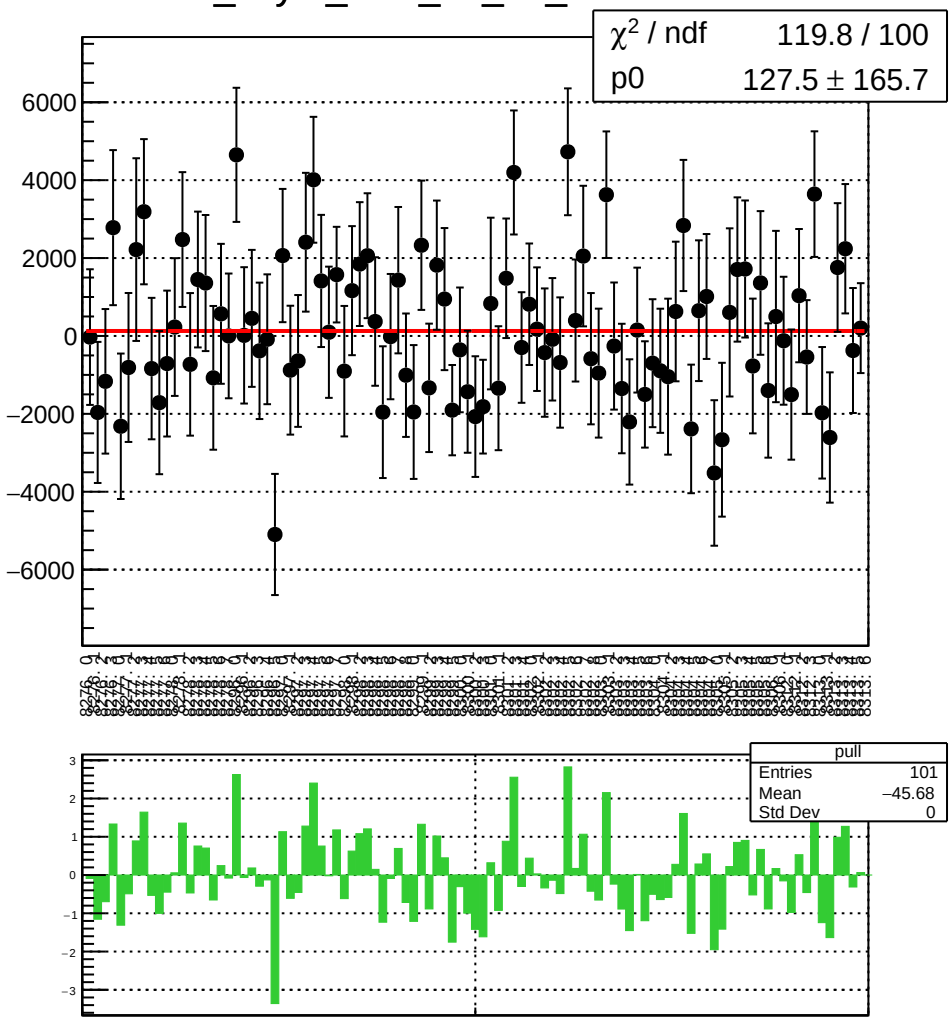

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 116.4 / 100
p0 83.36 ± 151.8
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 101
Mean −101.2
Std Dev 0
3
2
1
0
−1
−2
−3

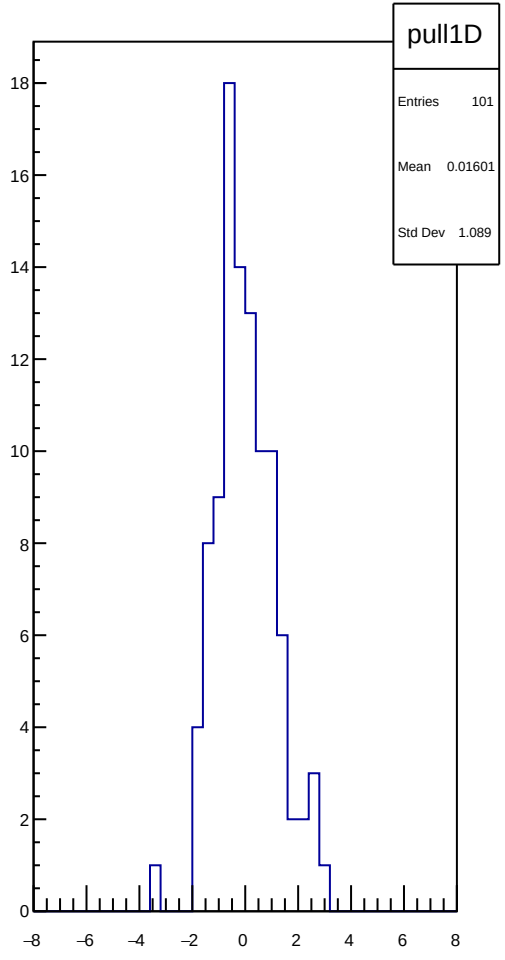

pull1D
Entries 101
Mean 0.01537
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

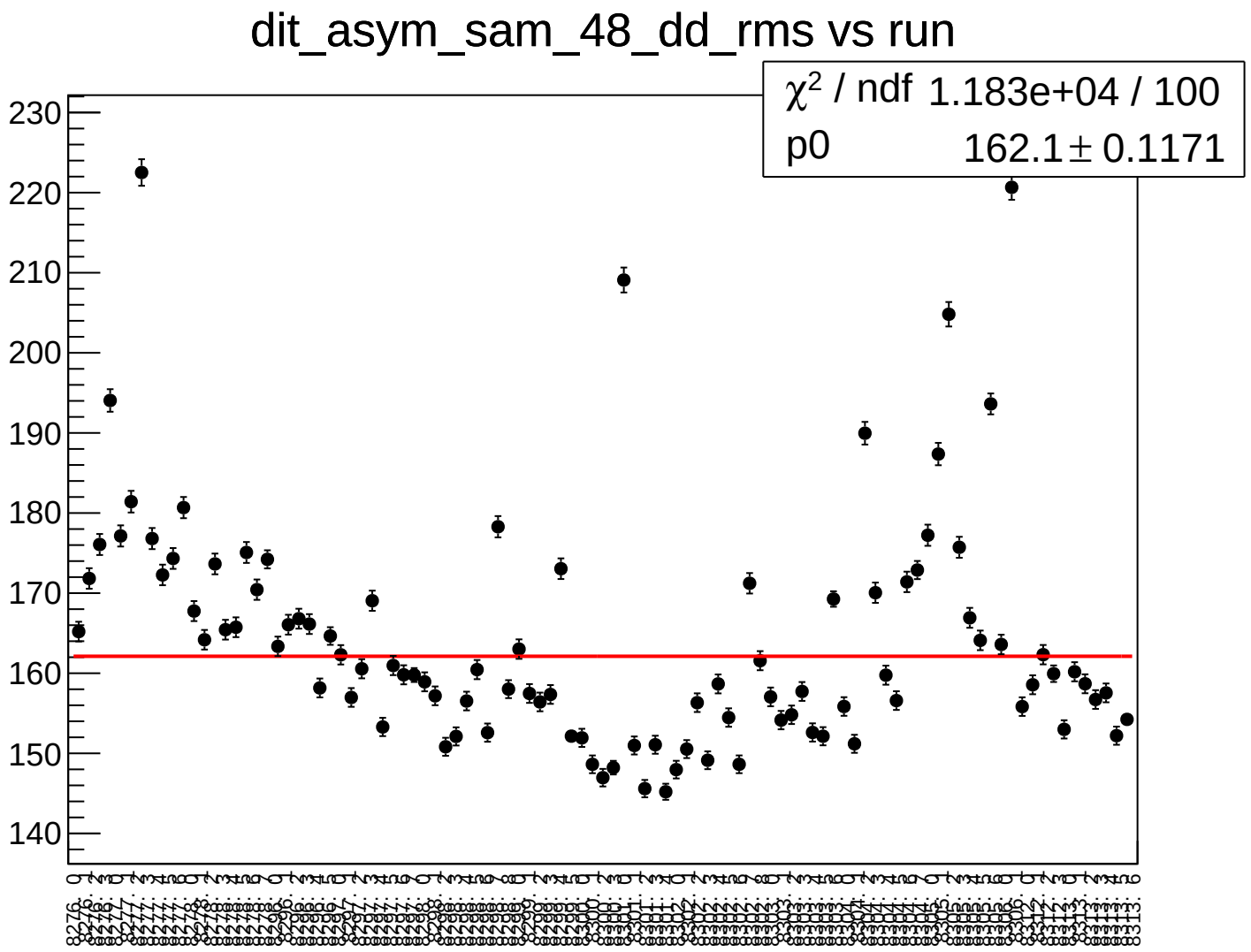

eigen_cor_asym_sam_48_dd_rms vs run
χ² / ndf 1.082e+04 / 100
p0 148.6 ± 0.1074
220
200
180
160
140

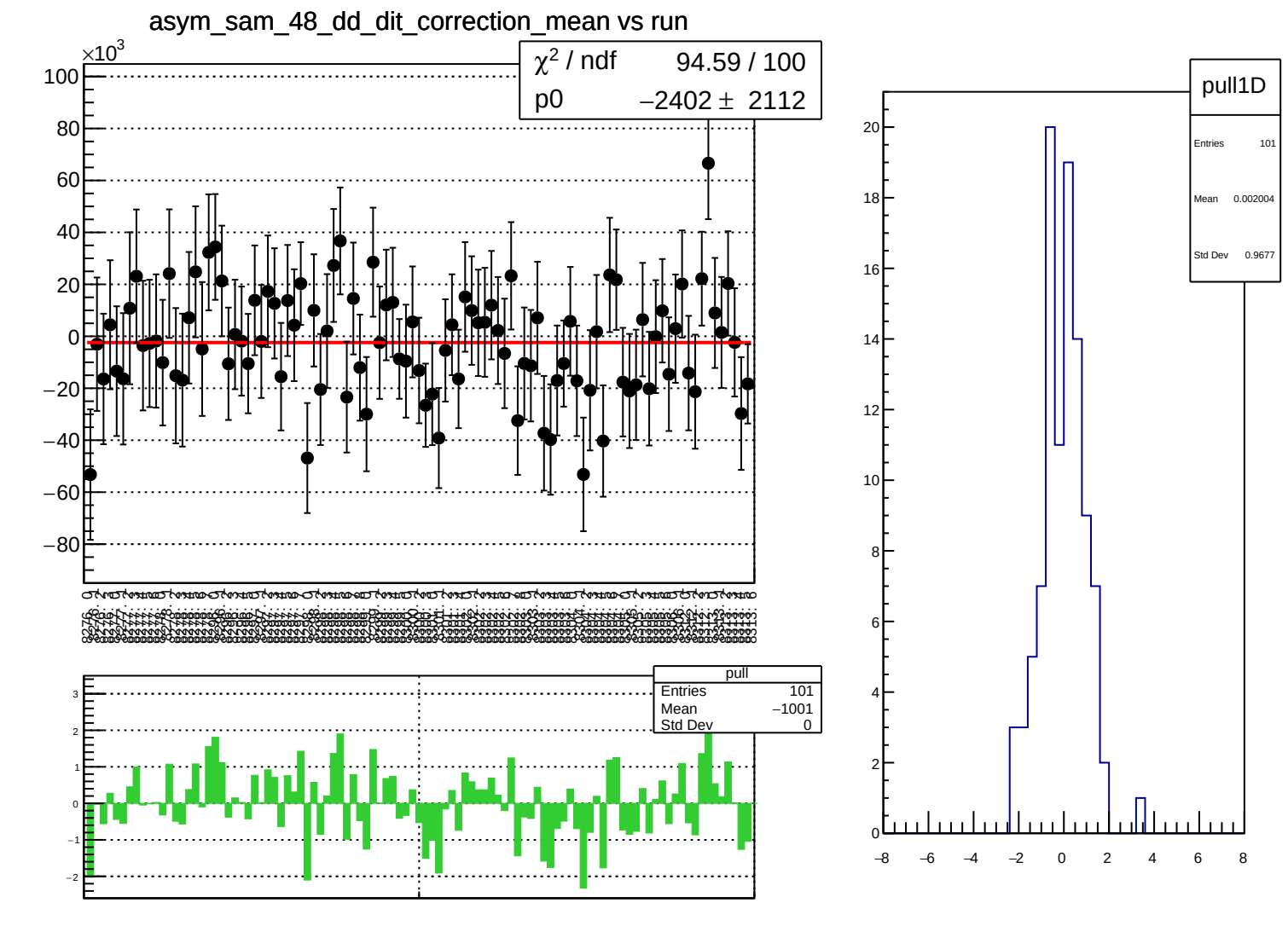

asym_sam_48_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 94.1 / 100
p0 −2394 ± 2064
pull
Entries 101
Mean −3938
Std Dev 0
pull1D
Entries 101
Mean 0.000557
Std Dev 0.9652

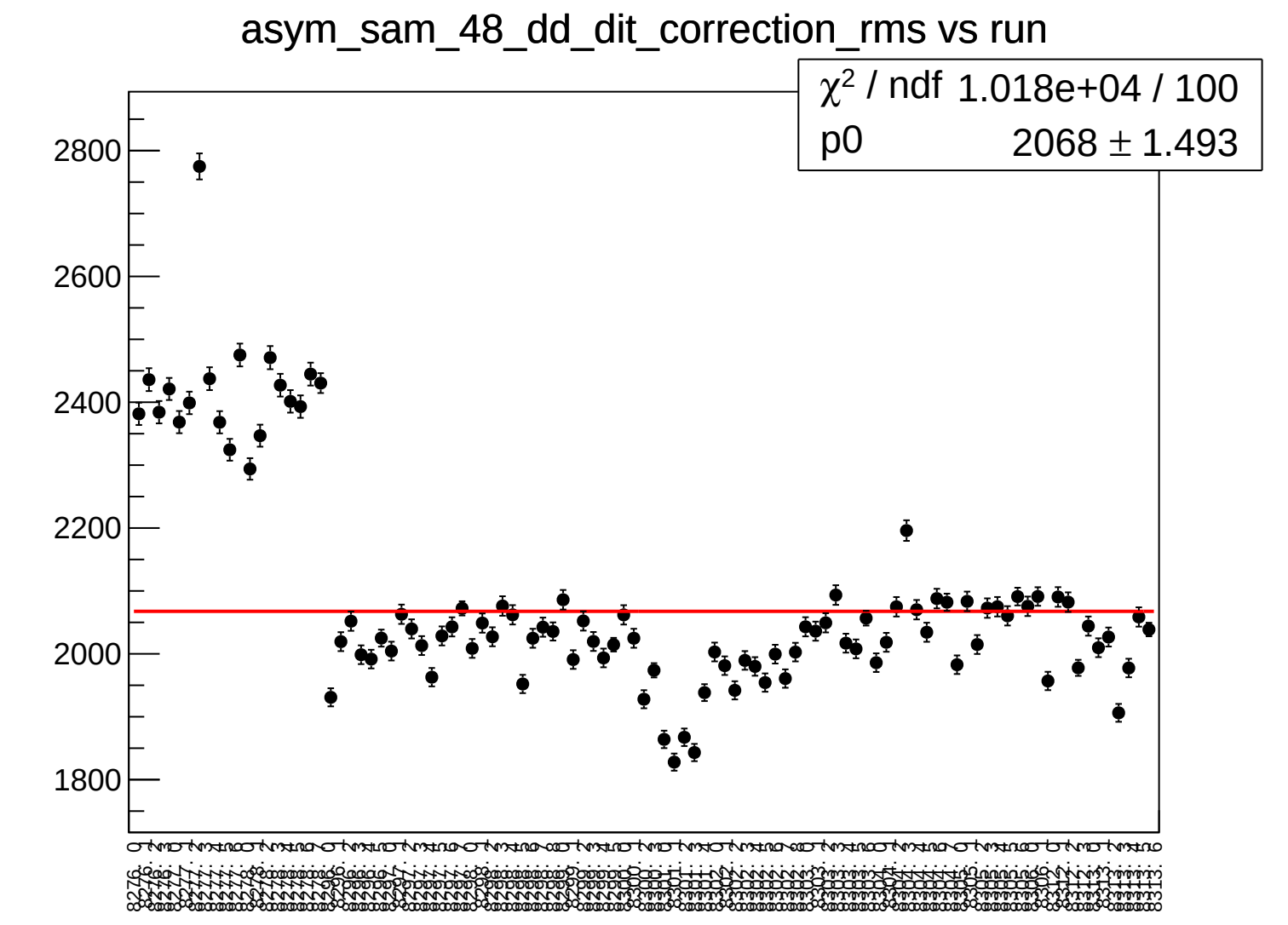

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.019e+04 / 100
p0 2020 ± 1.459
2600
2400
2200
2000
1800

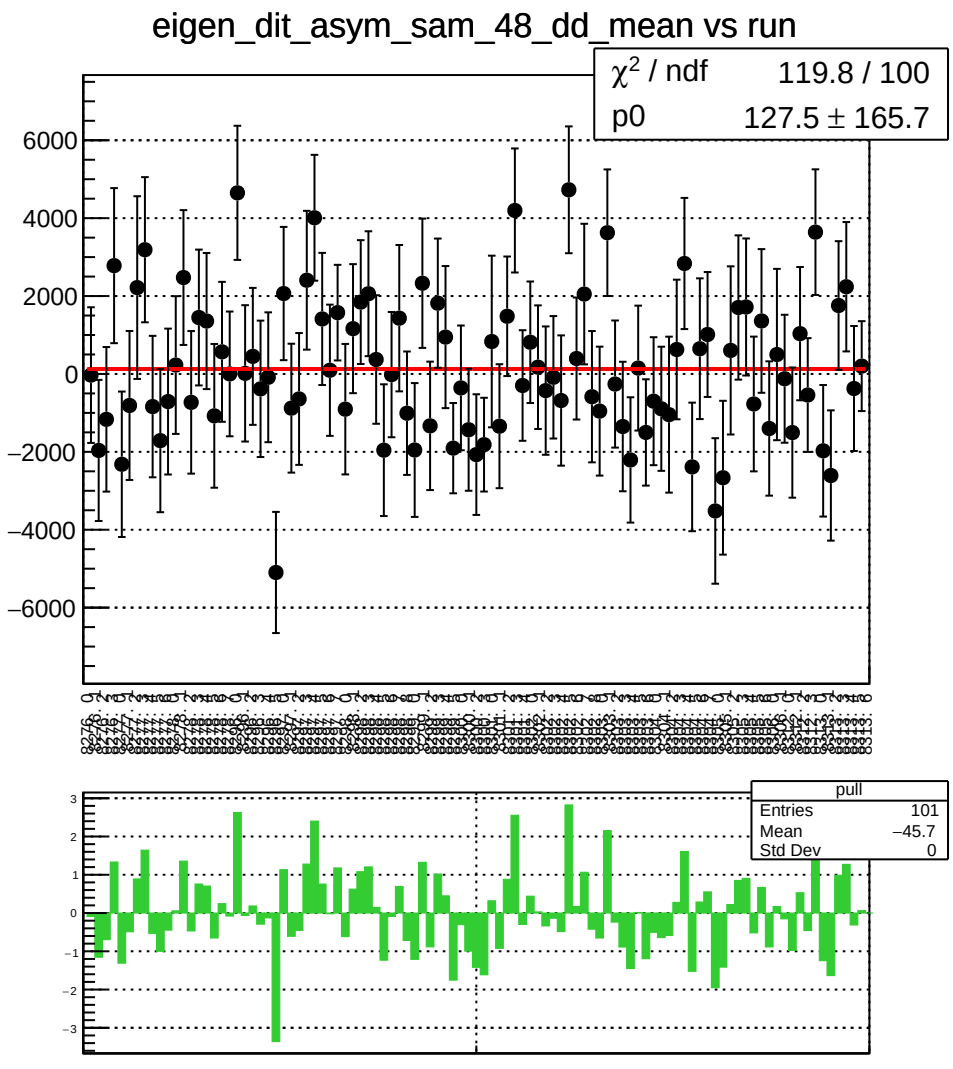

dit_asym_sam_48_dd_mean vs run
χ^2 / ndf 119.8 / 100
p0 127.5 ± 165.7
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 101
Mean −45.68
Std Dev 0
3
2
1
0
−1
−2
−3

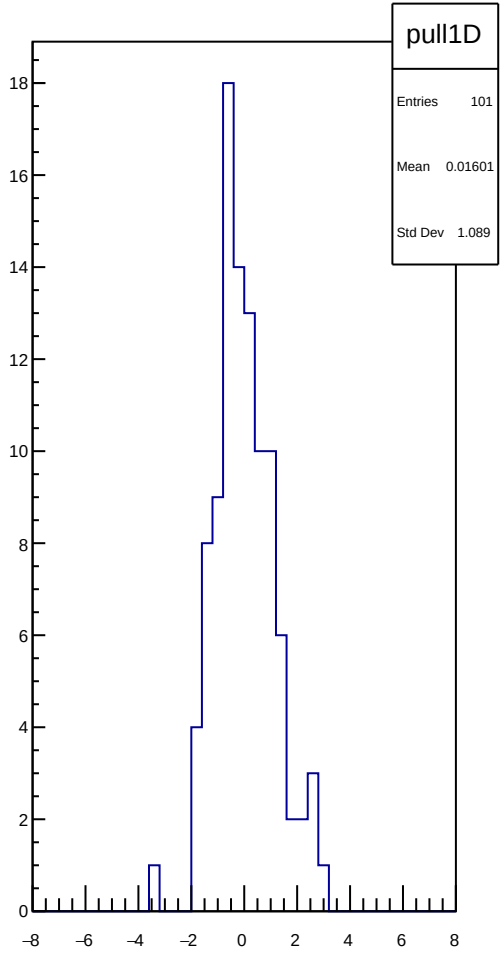

pull1D
Entries 101
Mean 0.01601
Std Dev 1.089
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

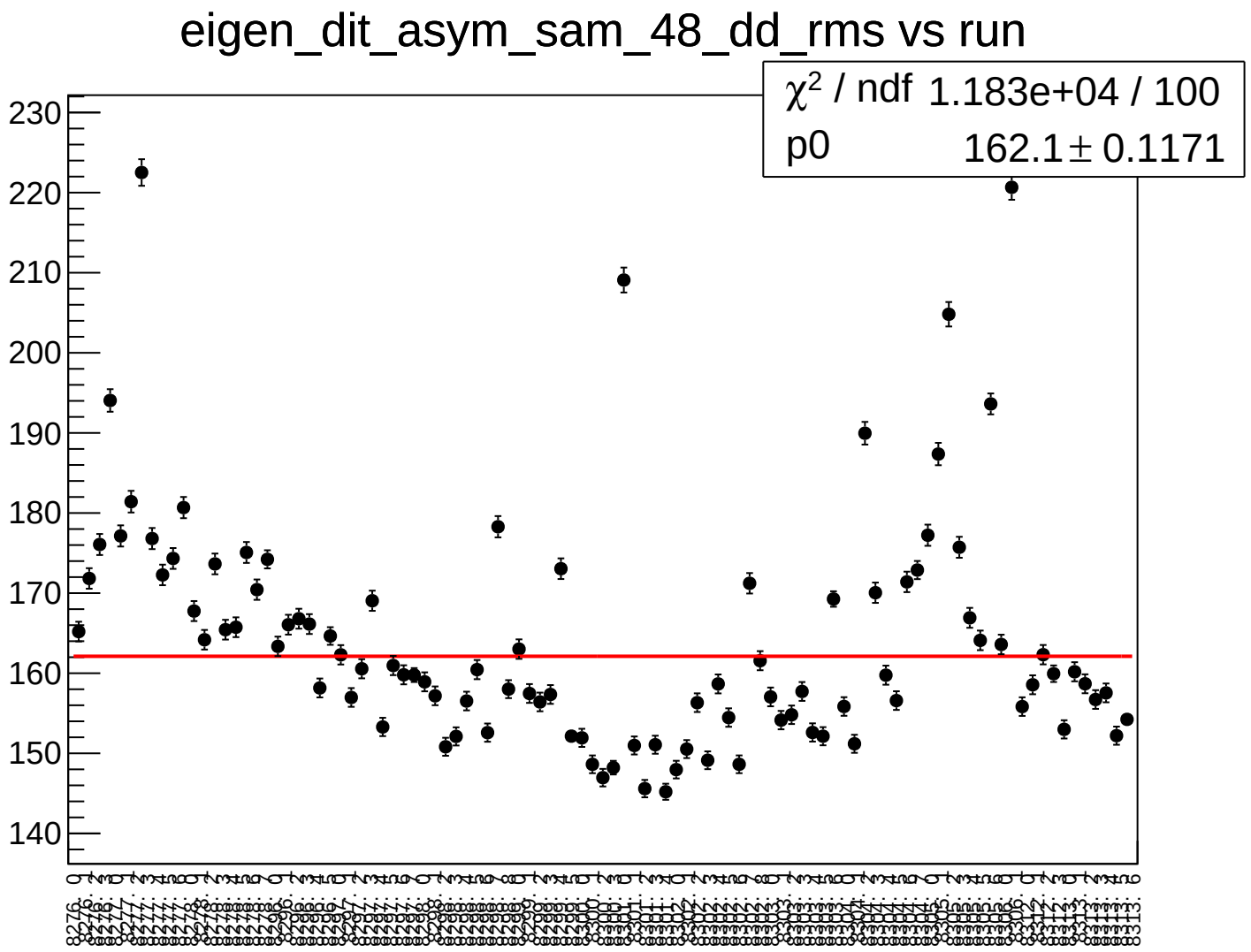

dit_asym_sam_48_dd_rms vs run
χ² / ndf 1.183e+04 / 100
p0 162.1 ± 0.1171
230
220
210
200
190
180
170
160
150
140

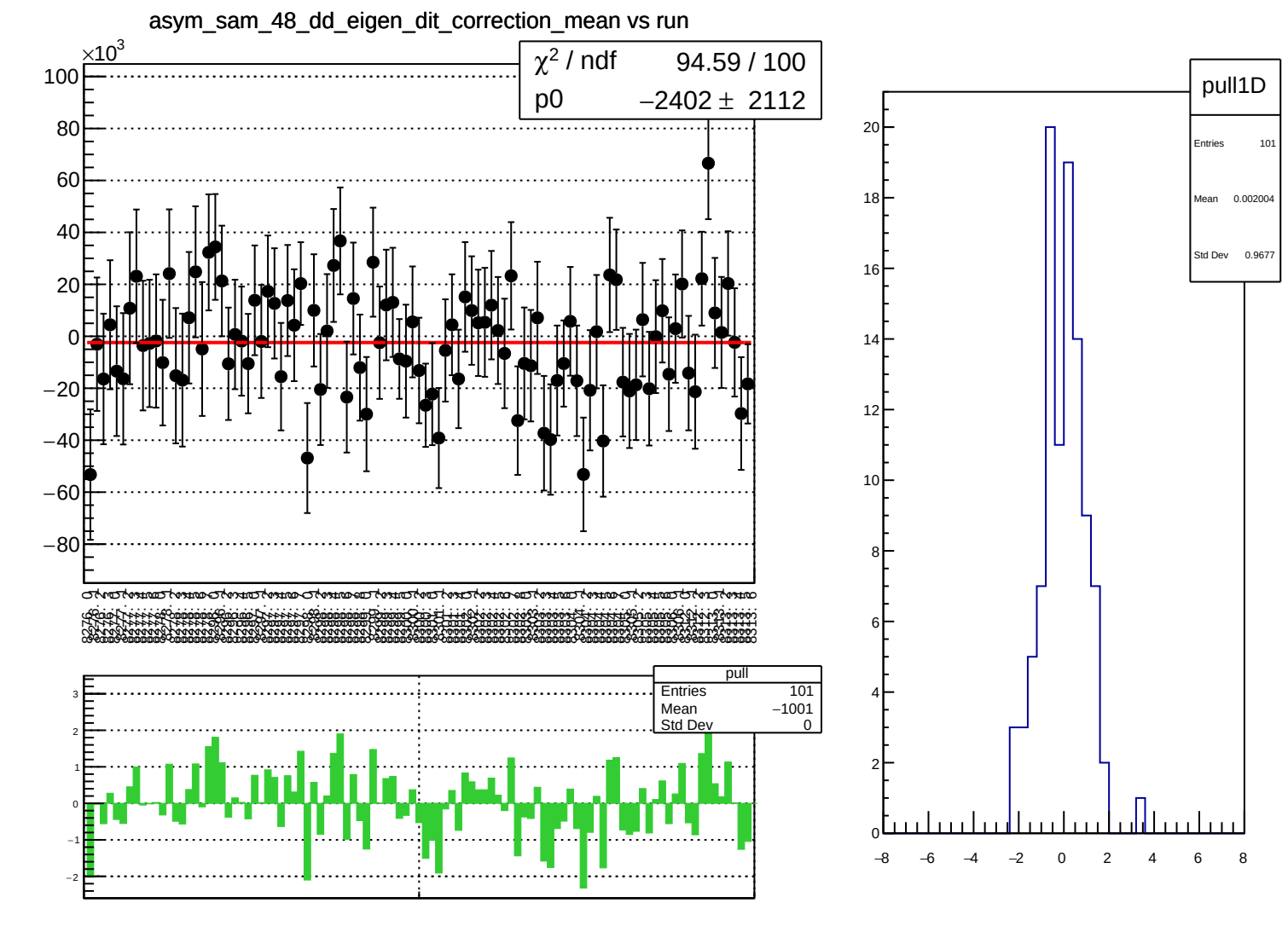

asym_sam_48_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 94.59 / 100
p0 −2402 ± 2112
pull
Entries 101
Mean −1001
Std Dev 0
pull1D
Entries 101
Mean 0.002004
Std Dev 0.9677

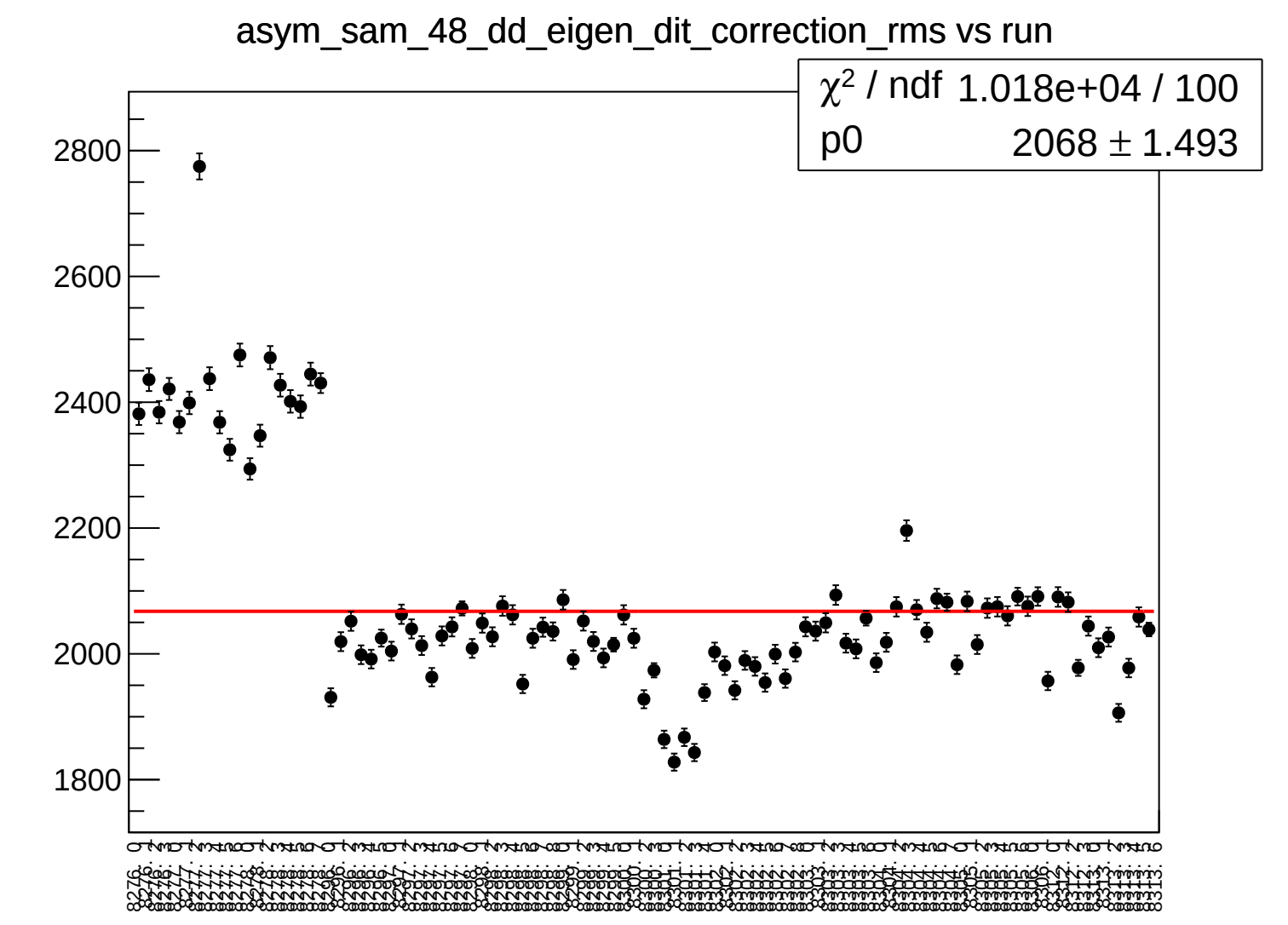

asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 1.018e+04 / 100
p0 2068 ± 1.493
2800
2600
2400
2200
2000
1800

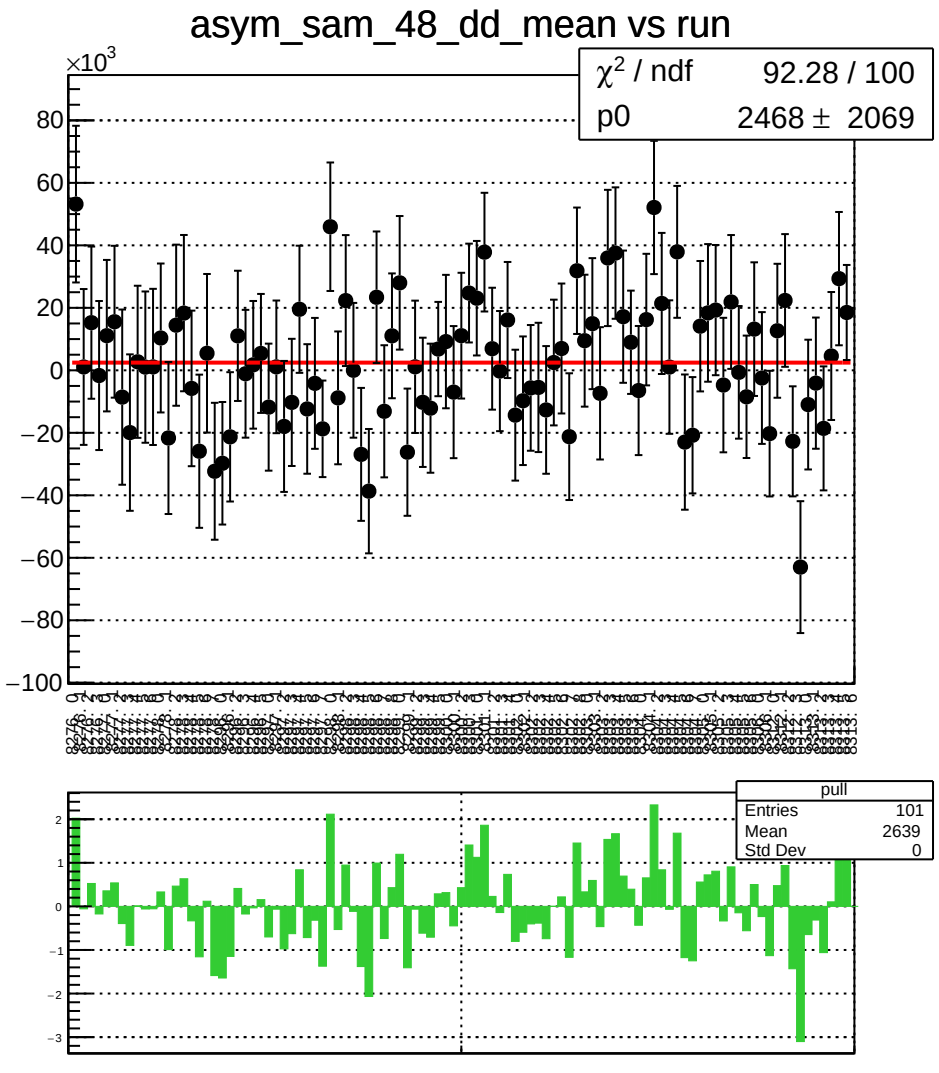

eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 119.8 / 100
p0 127.5 ± 165.7
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 101
Mean −45.7
Std Dev 0
3
2
1
0
−1
−2
−3

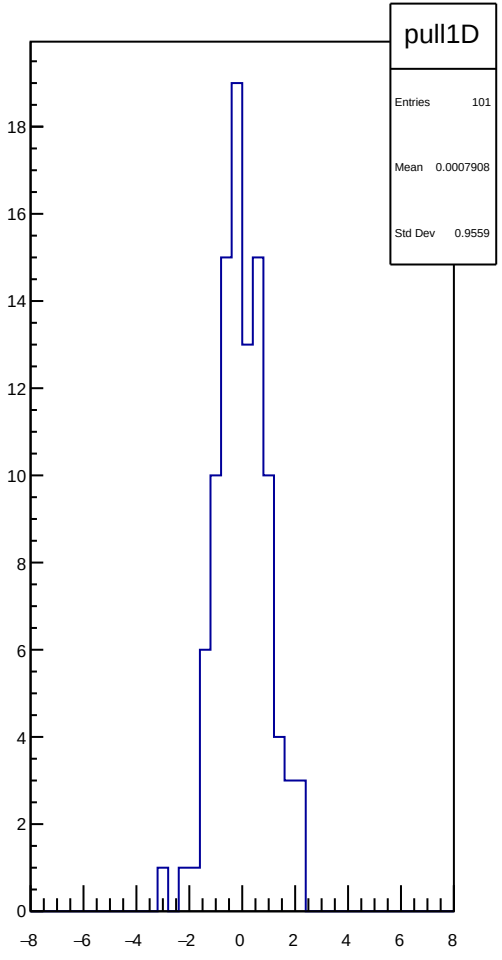

pull1D
Entries 101
Mean 0.01601
Std Dev 1.089
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

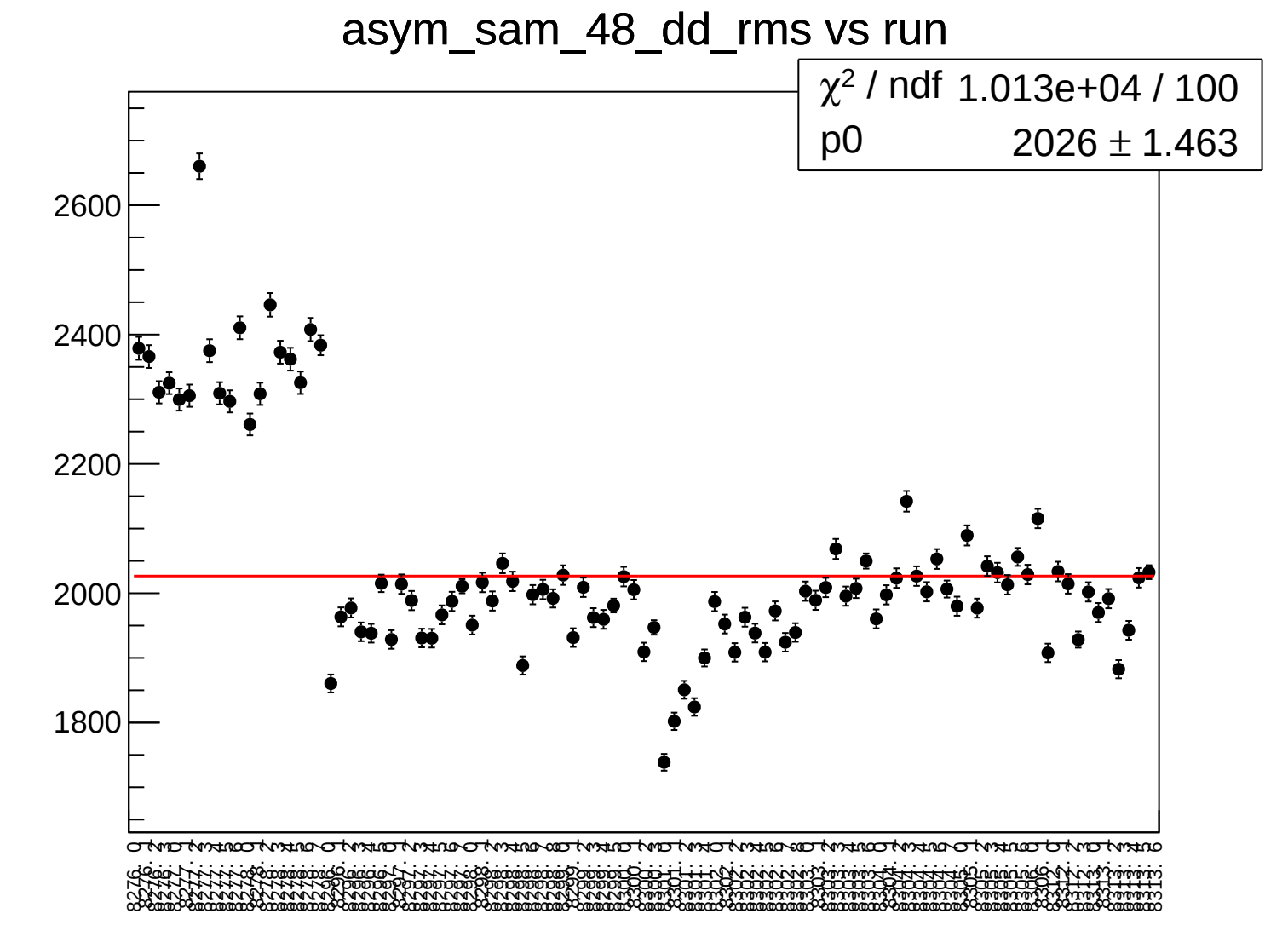

eigen_dit_asym_sam_48_dd_rms vs run
χ² / ndf 1.183e+04 / 100
p0 162.1 ± 0.1171
230
220
210
200
190
180
170
160
150
140

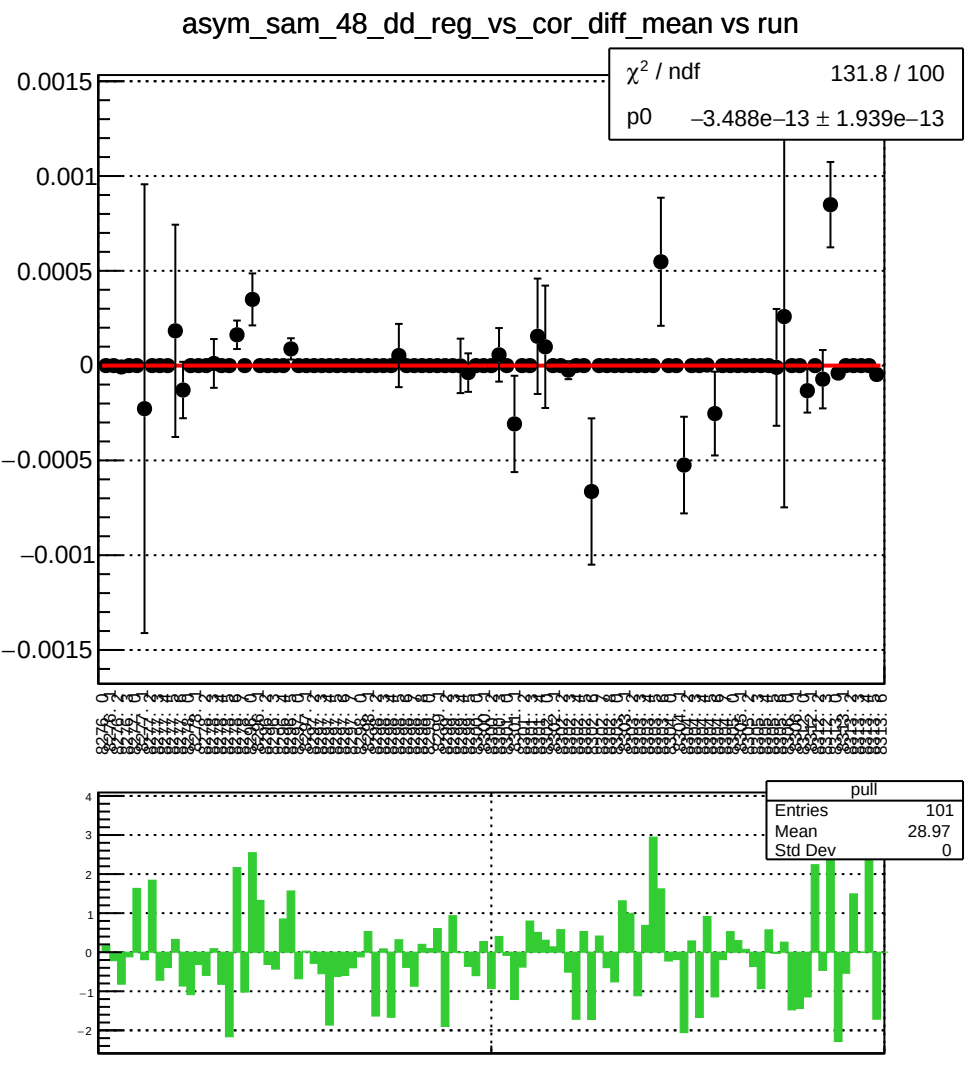

asym_sam_48_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 94.59 / 100
p0 −2402 ± 2112
pull
Entries 101
Mean −1001
Std Dev 0
pull1D
Entries 101
Mean 0.002004
Std Dev 0.9677

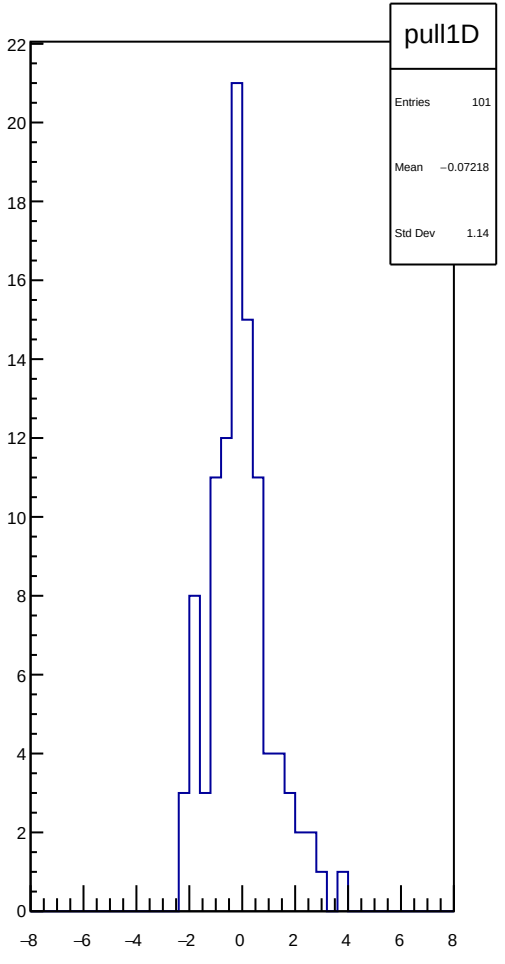

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.018e+04 / 100
p0 2068 ± 1.493
2800
2600
2400
2200
2000
1800

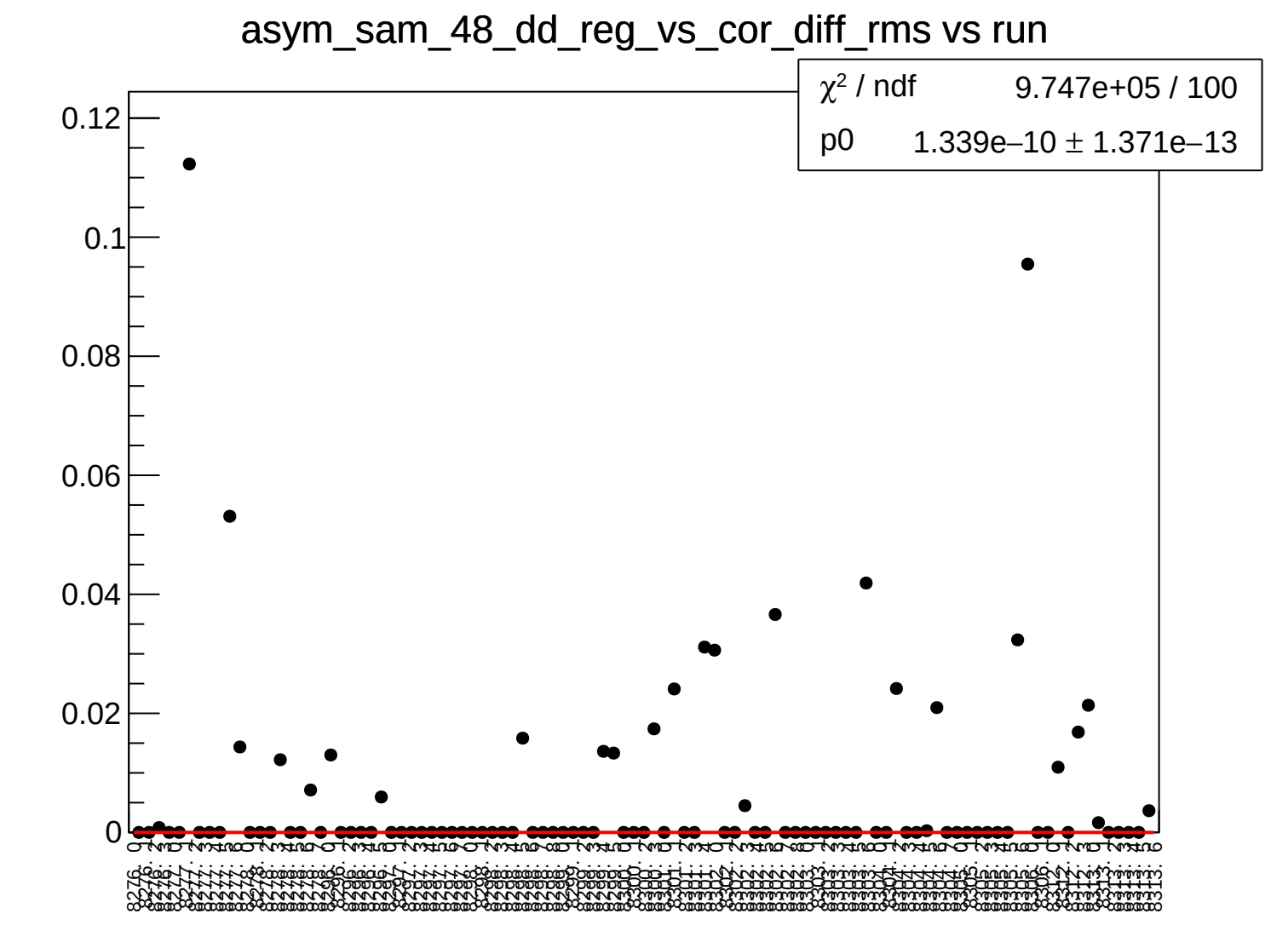

asym_sam_48_dd_mean vs run
χ^2 / ndf 92.28 / 100
p0 2468 ± 2069
×10^3
pull
Entries 101
Mean 2639
Std Dev 0

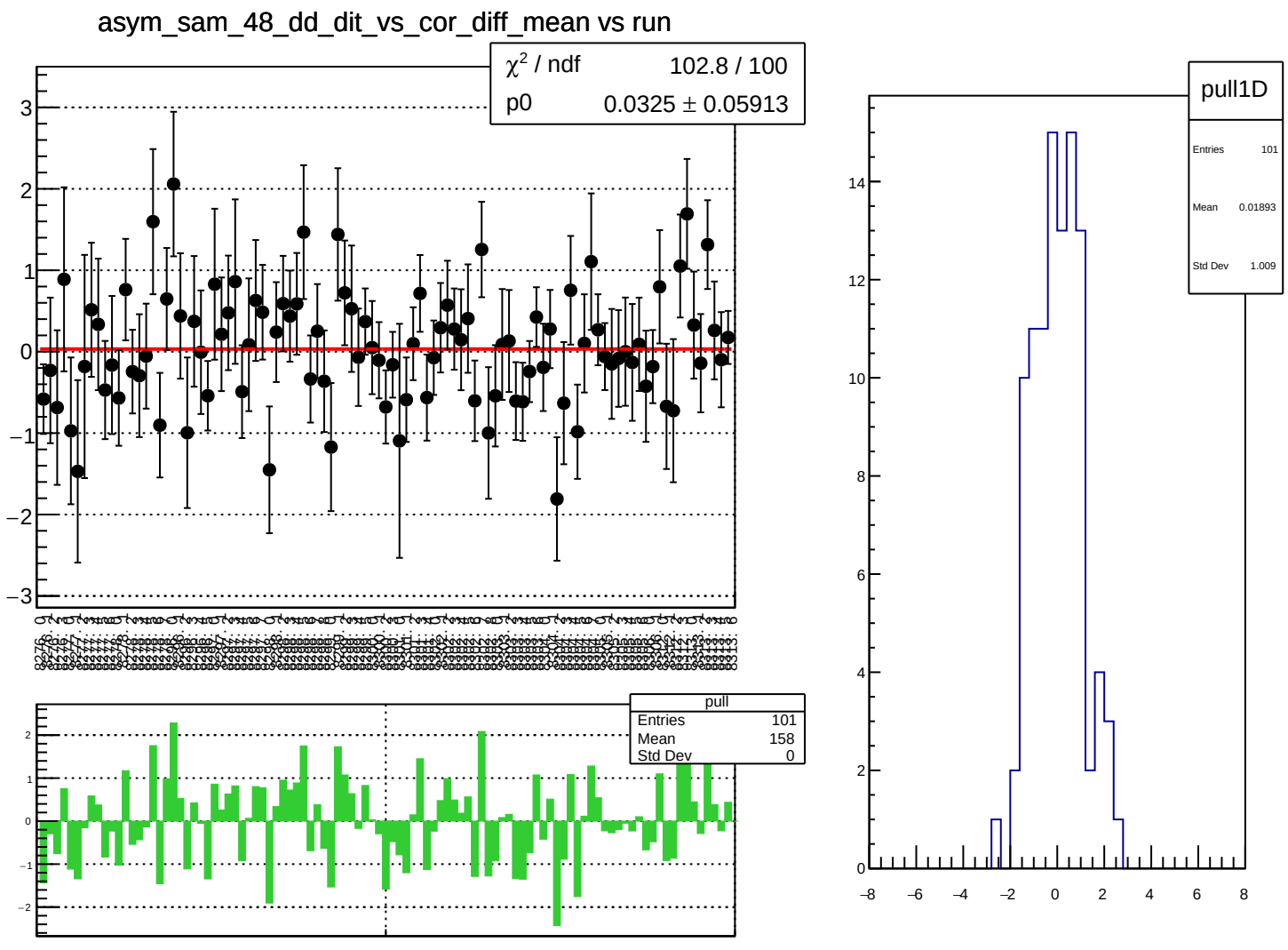

pull1D
Entries 101
Mean 0.0007908
Std Dev 0.9559

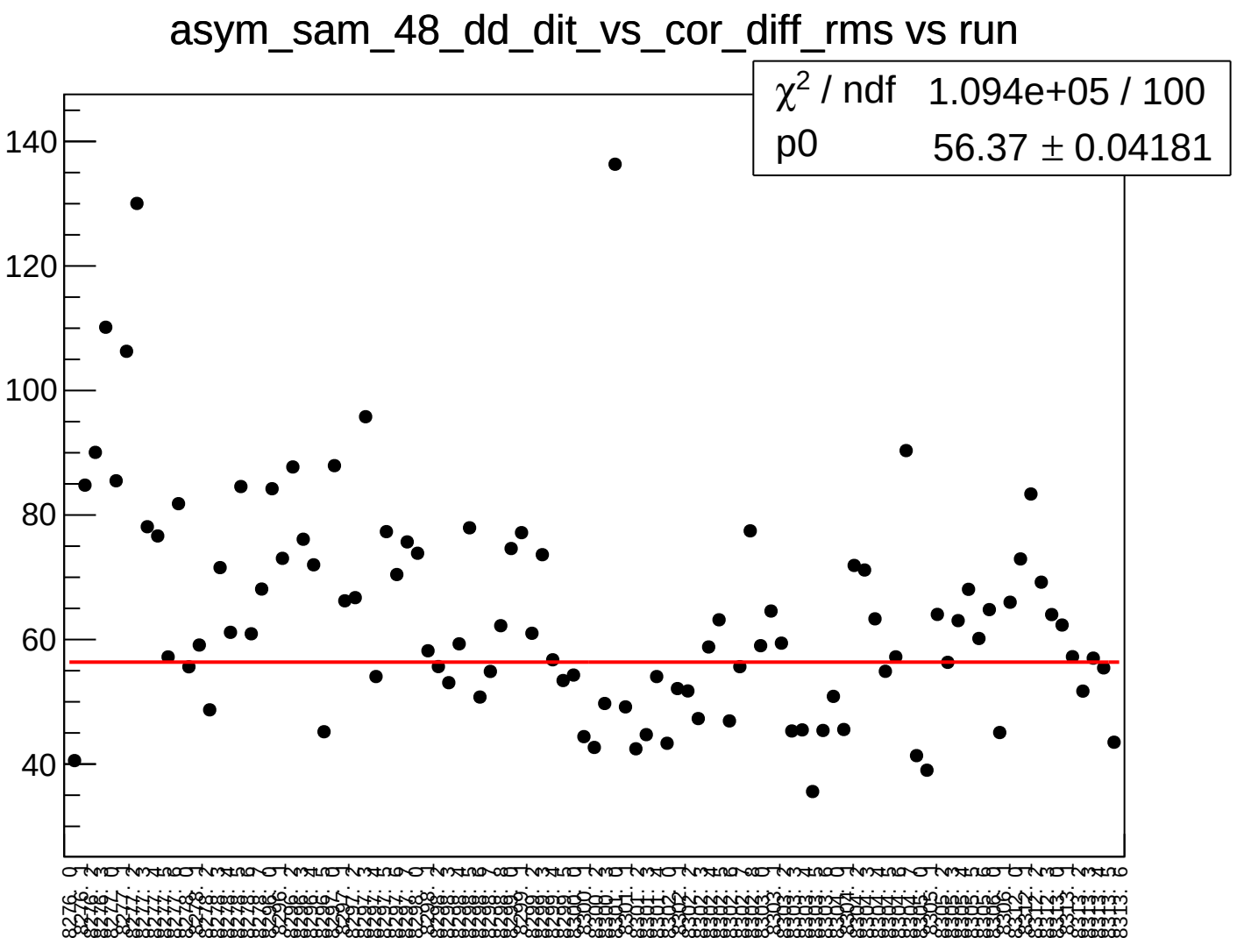

asym_sam_48_dd_rms vs run
χ² / ndf 1.013e+04 / 100
p0 2026 ± 1.463
2600
2400
2200
2000
1800

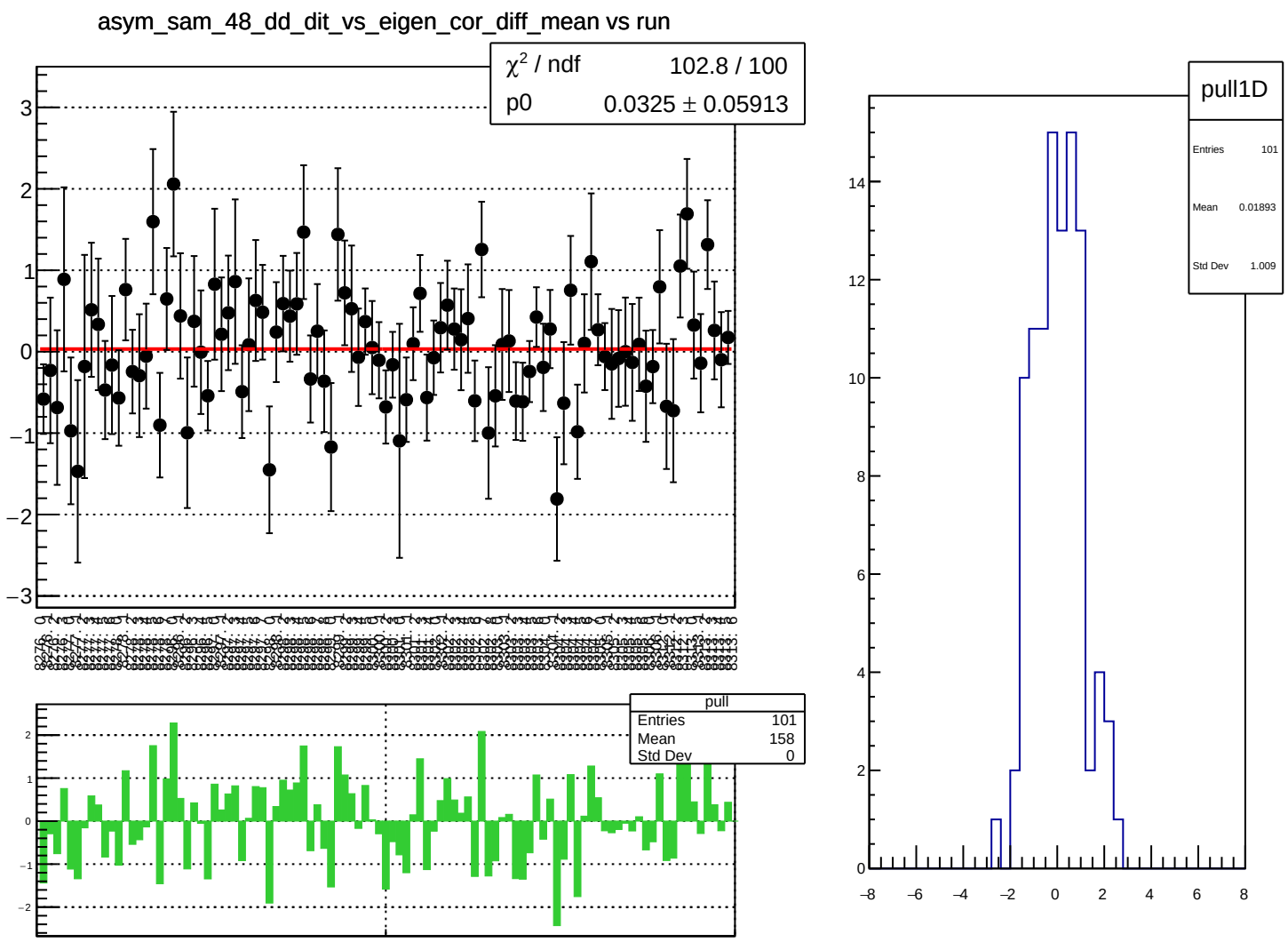

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 131.8 / 100
p0 −3.488e−13 ± 1.939e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 101
Mean 28.97
Std Dev 0
4
3
2
1
0
−1
−2

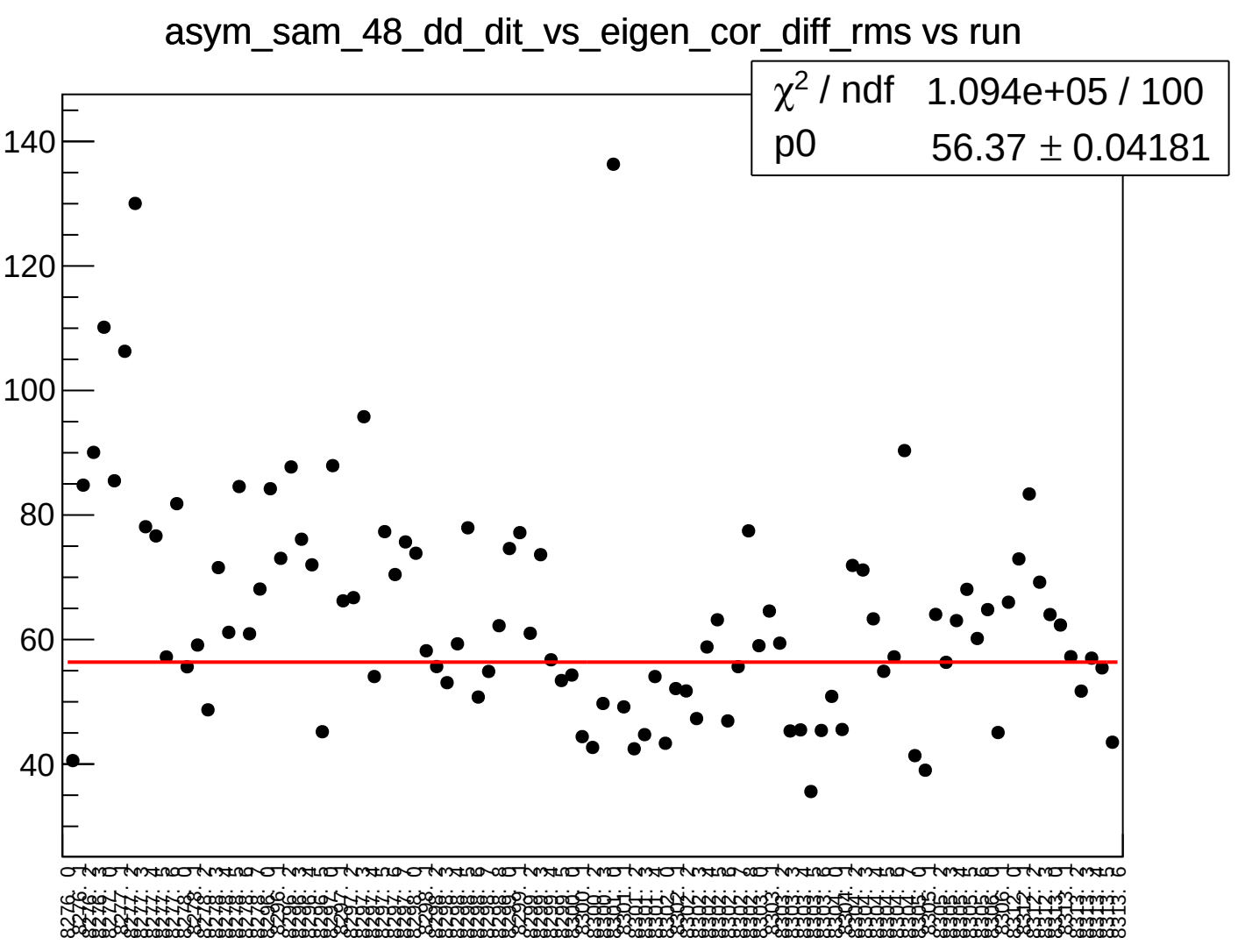

pull1D
Entries 101
Mean −0.07218
Std Dev 1.14
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

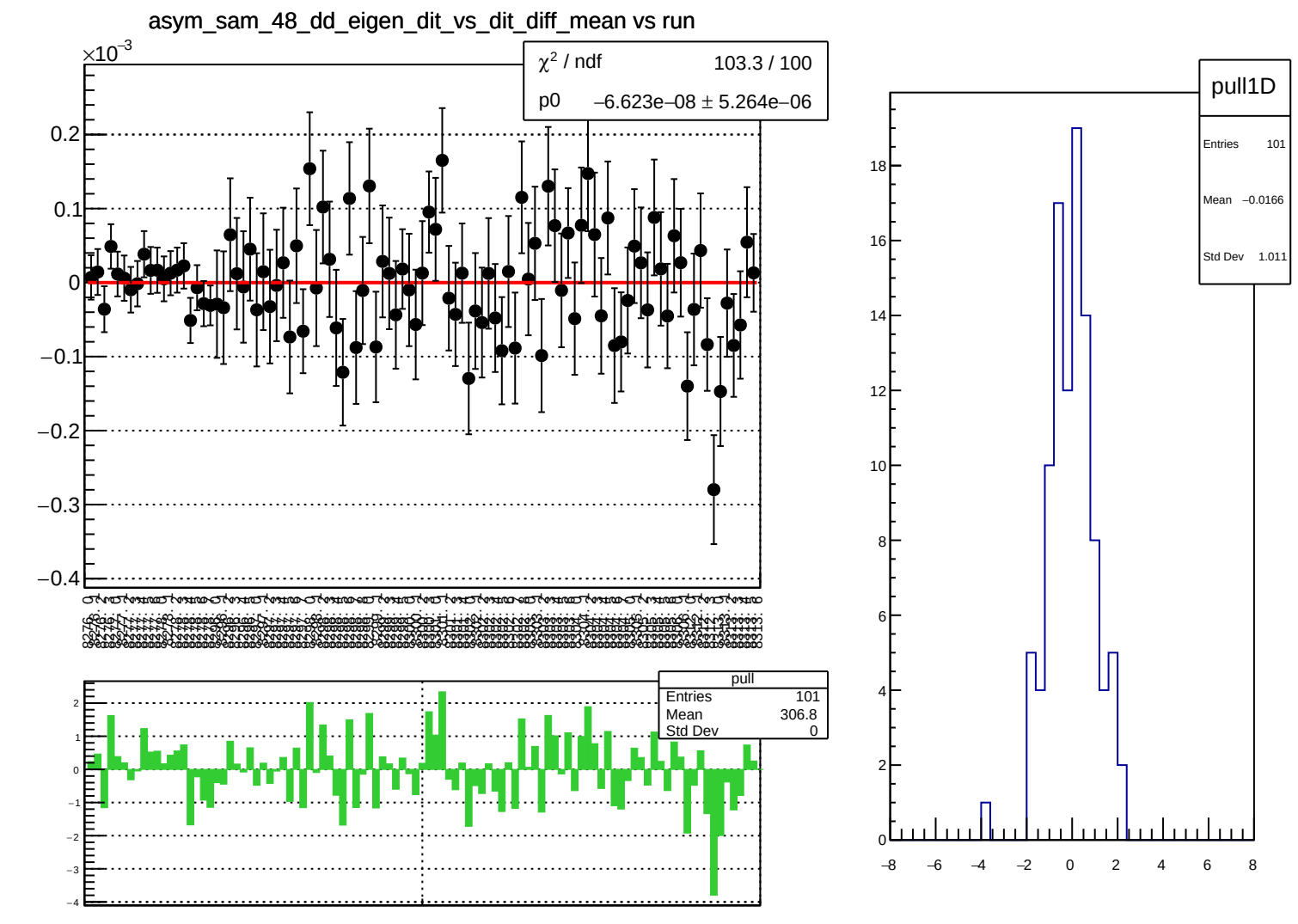

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.747e+05 / 100
p0 1.339e−10 ± 1.371e−13
0.12
0.1
0.08
0.06
0.04
0.02
0

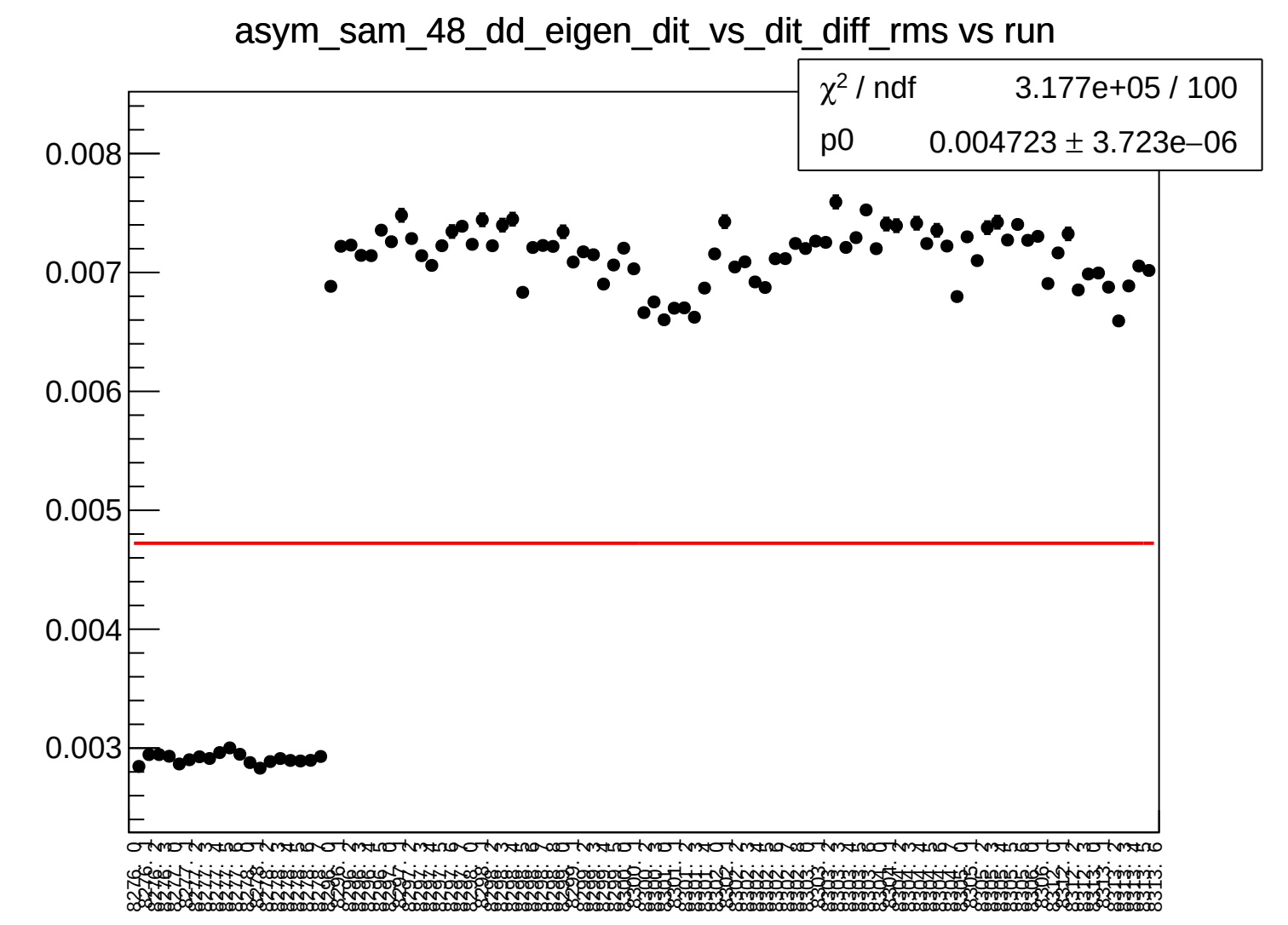

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 102.8 / 100
p0 0.0325 ± 0.05913
pull
Entries 101
Mean 158
Std Dev 0
pull1D
Entries 101
Mean 0.01893
Std Dev 1.009

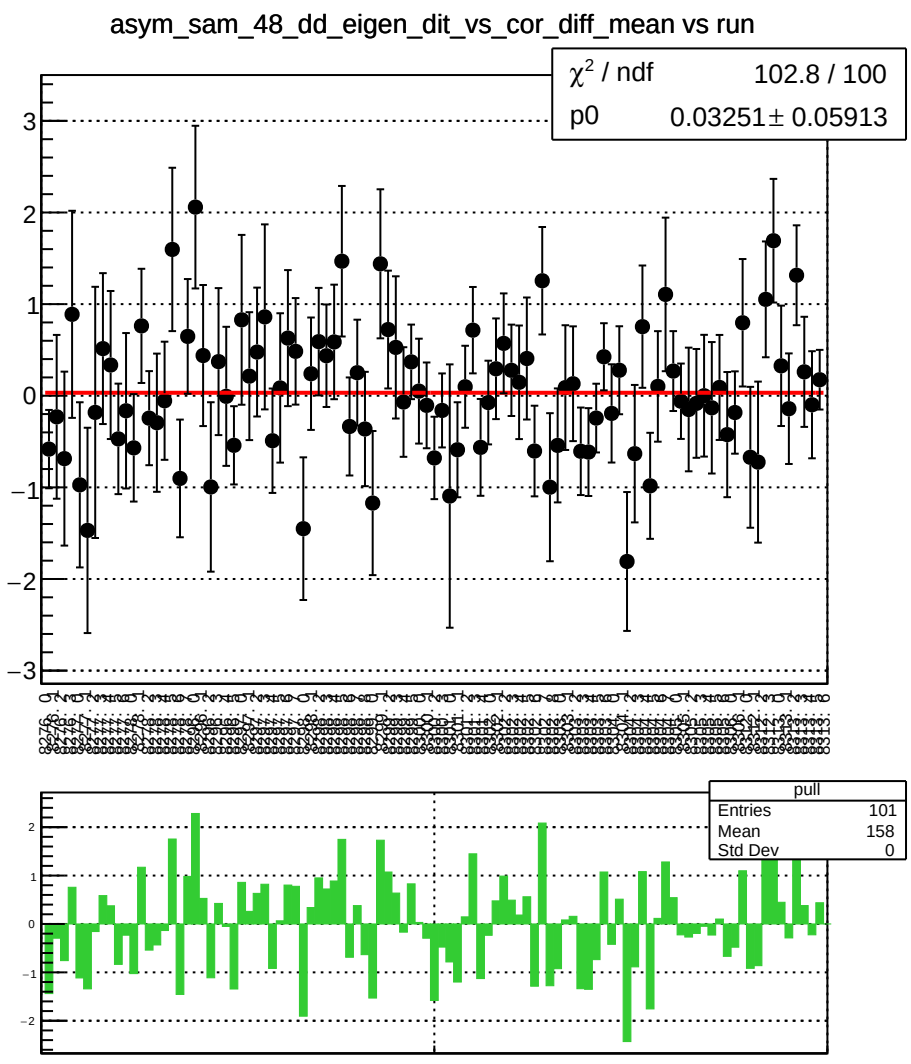

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.094e+05 / 100
p0 56.37 ± 0.04181
140
120
100
80
60
40

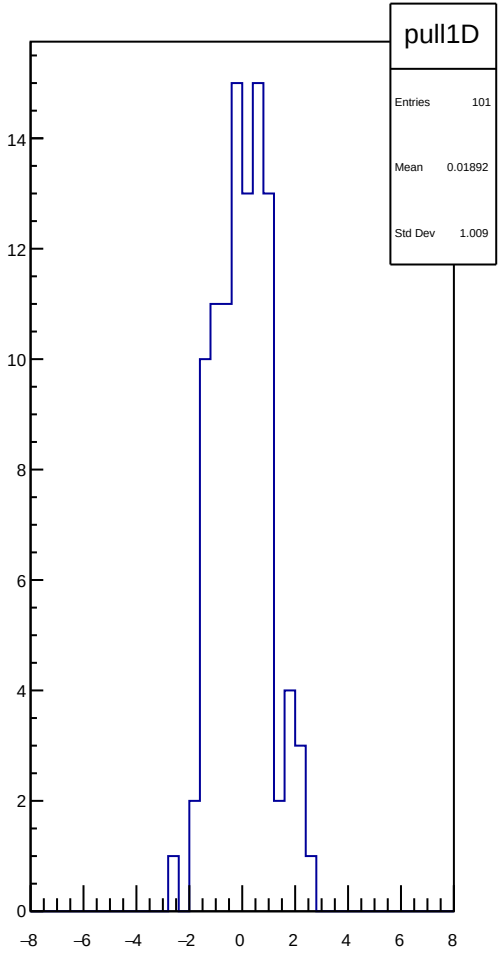

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.8 / 100
p0 0.0325 ± 0.05913
pull
Entries 101
Mean 158
Std Dev 0
pull1D
Entries 101
Mean 0.01893
Std Dev 1.009

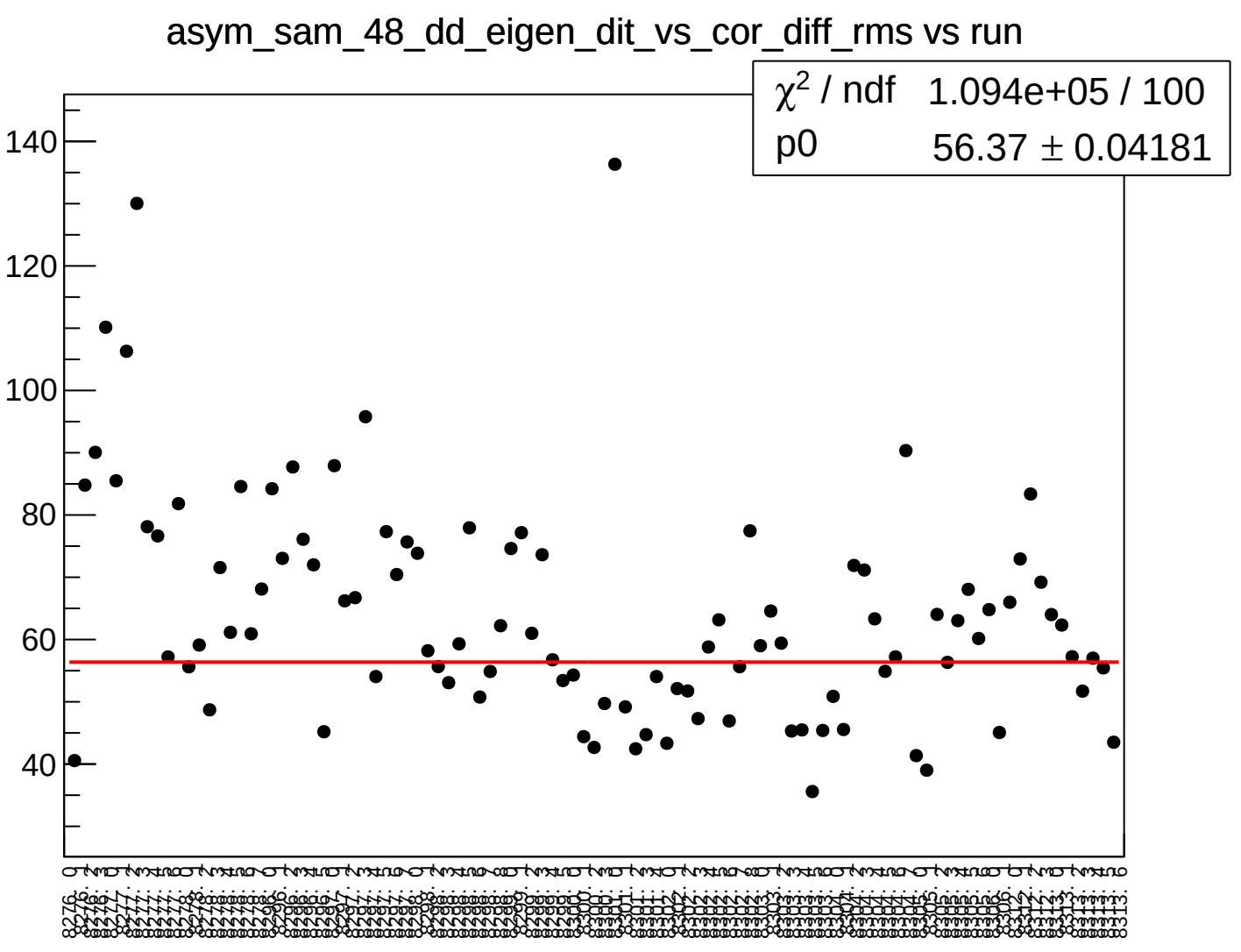

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.094e+05 / 100
p0 56.37 ± 0.04181
140
120
100
80
60
40

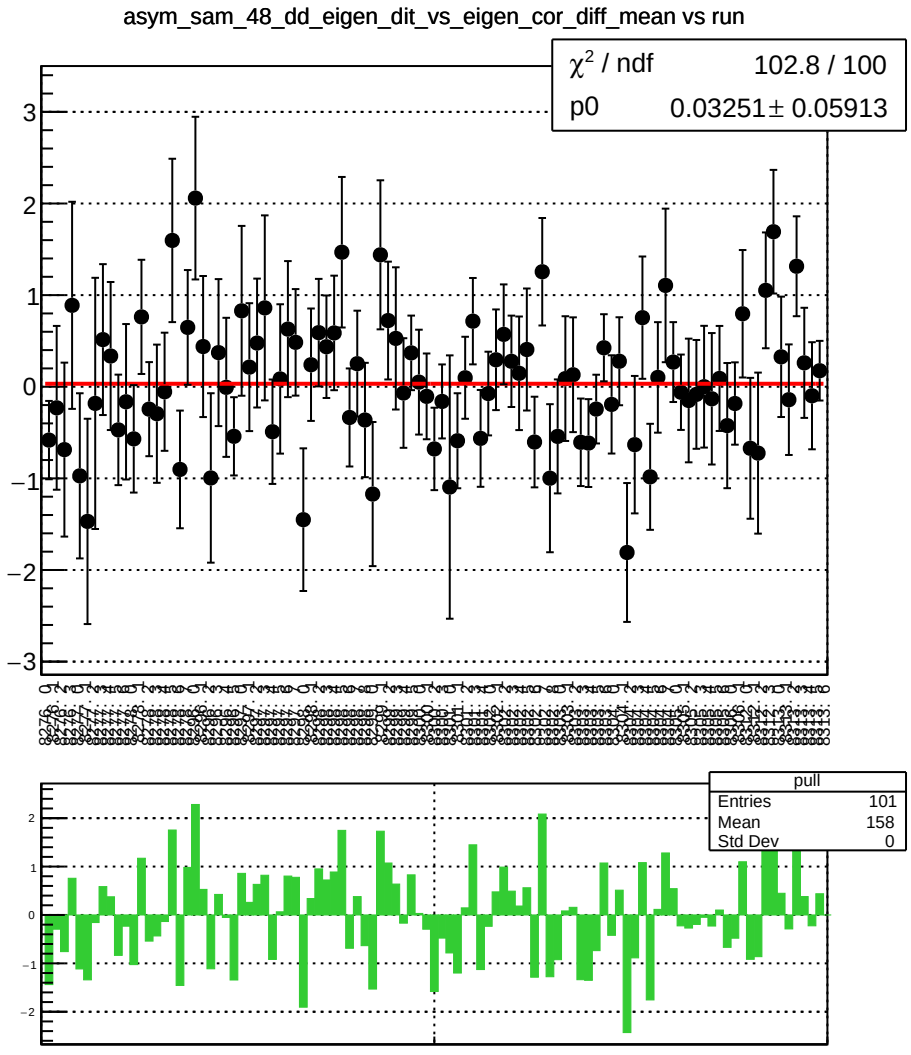

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 103.3 / 100
p0 −6.623e−08 ± 5.264e−06
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull
Entries 101
Mean 306.8
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 101
Mean −0.0166
Std Dev 1.011
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

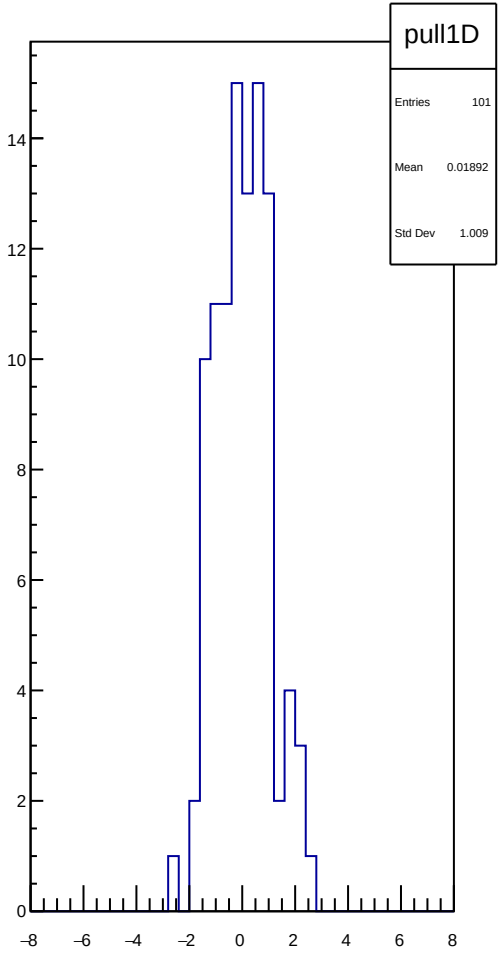

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.177e+05 / 100
p0 0.004723 ± 3.723e−06
0.008
0.007
0.006
0.005
0.004
0.003

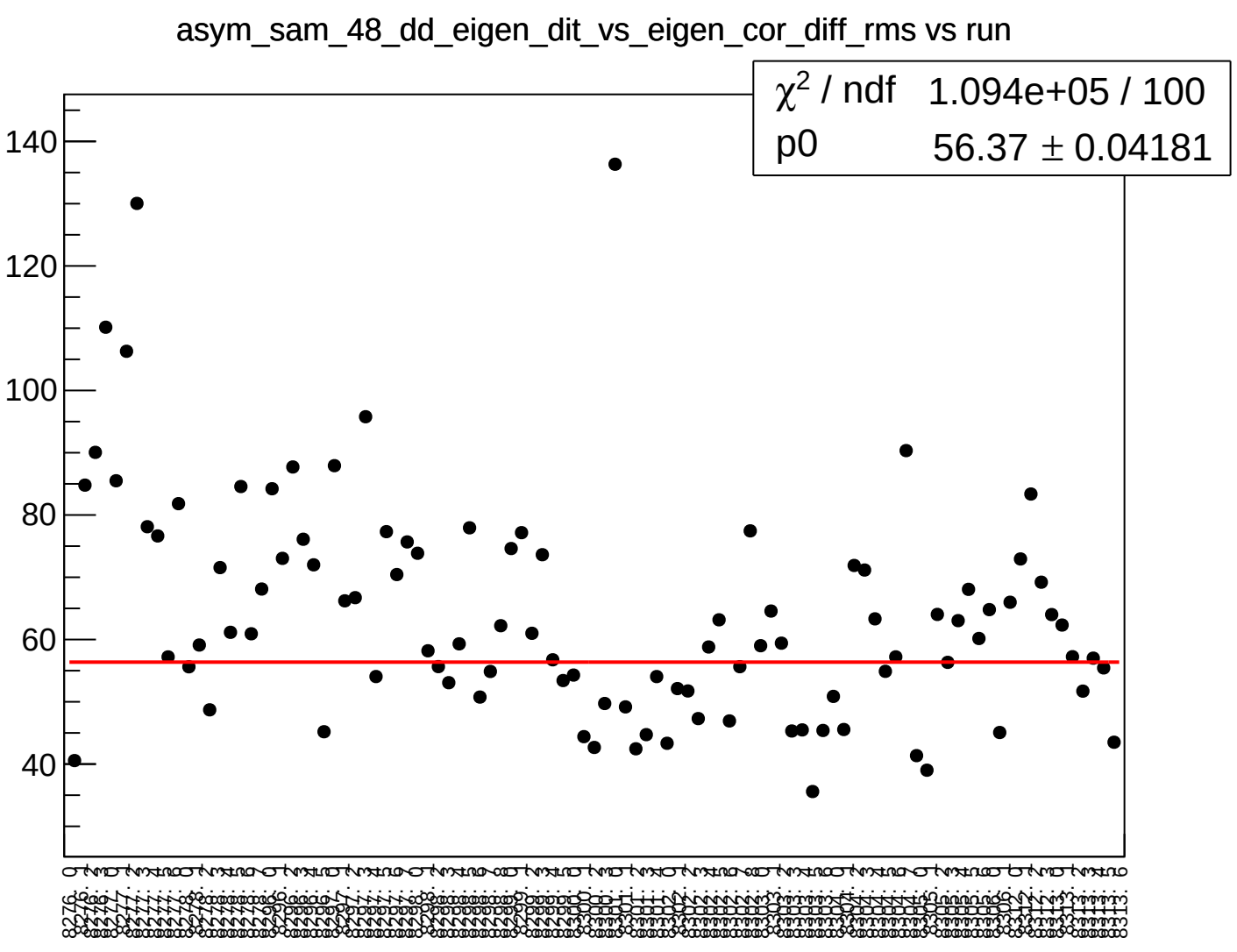

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 102.8 / 100
p0 0.03251 ± 0.05913
pull
Entries 101
Mean 158
Std Dev 0

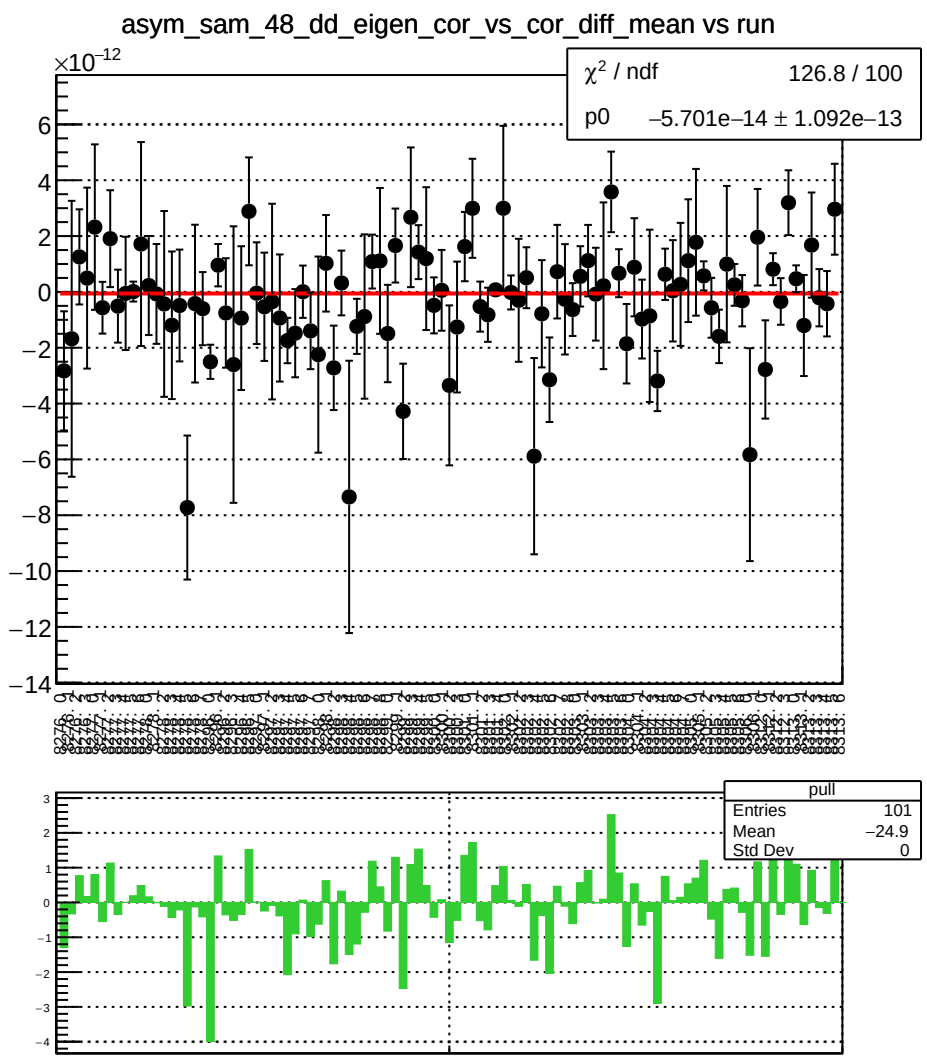

pull1D
Entries 101
Mean 0.01892
Std Dev 1.009

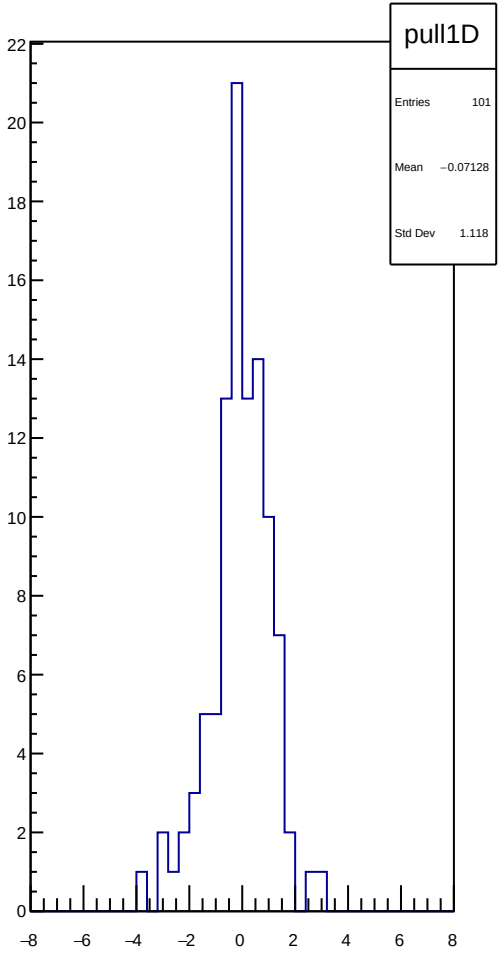

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.094e+05 / 100
p0 56.37 ± 0.04181
140
120
100
80
60
40

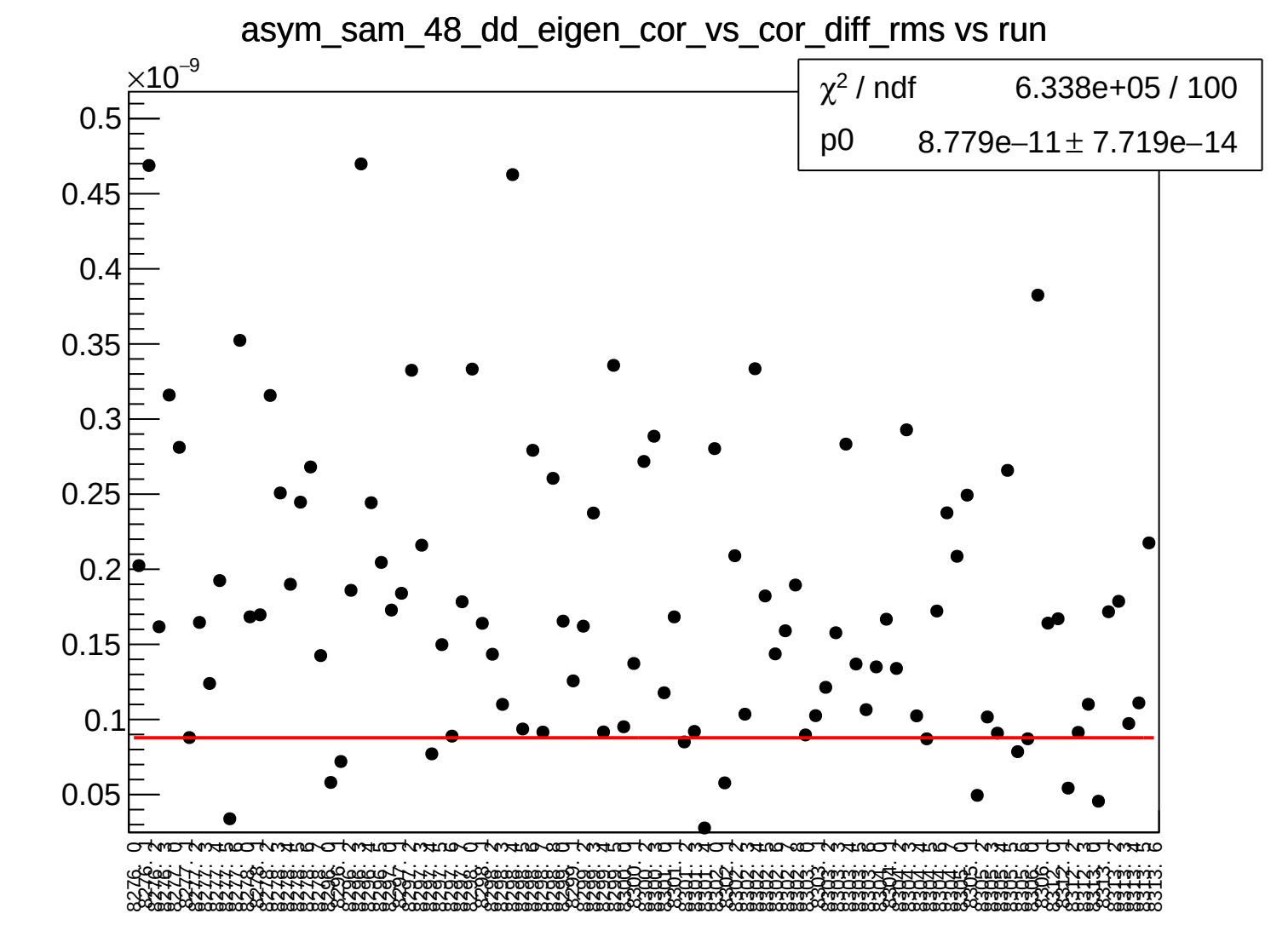

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.8 / 100
p0 0.03251 ± 0.05913
pull
Entries 101
Mean 158
Std Dev 0

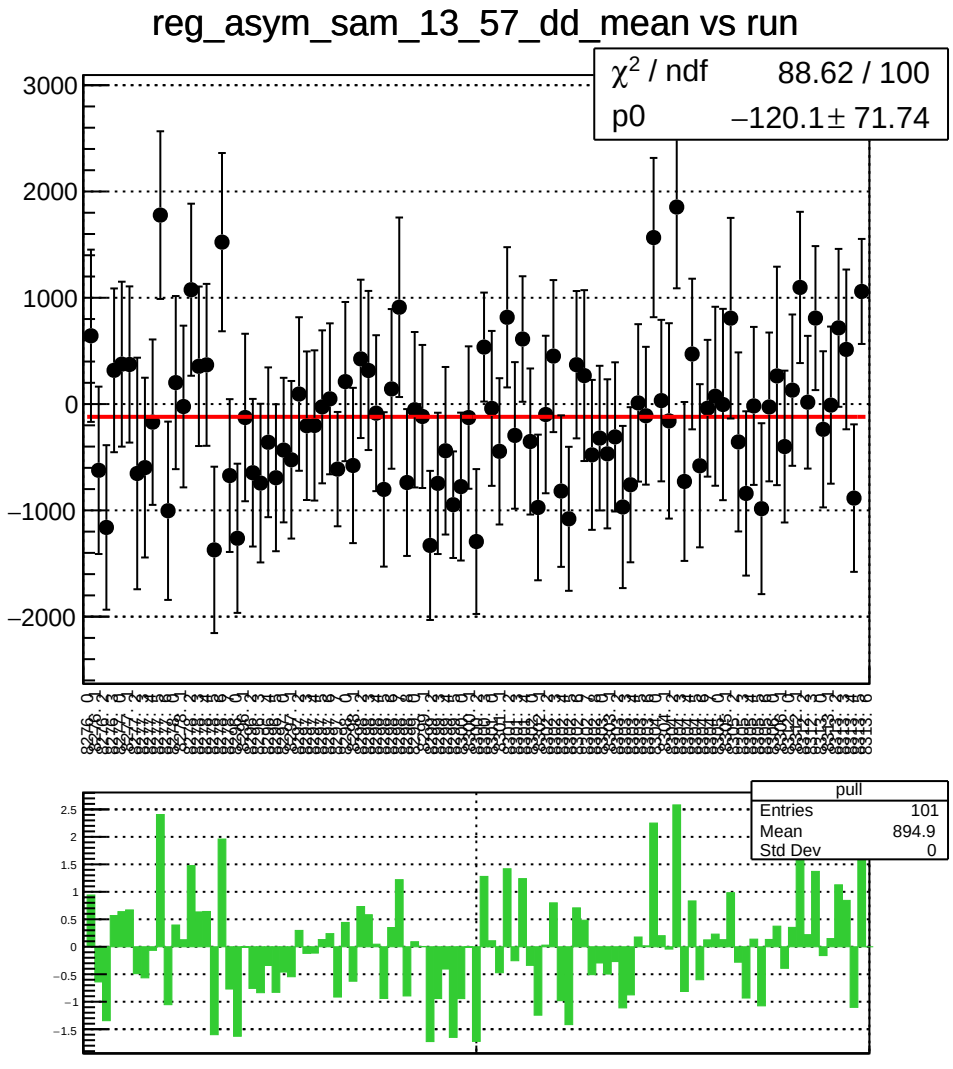

pull1D
Entries 101
Mean 0.01892
Std Dev 1.009

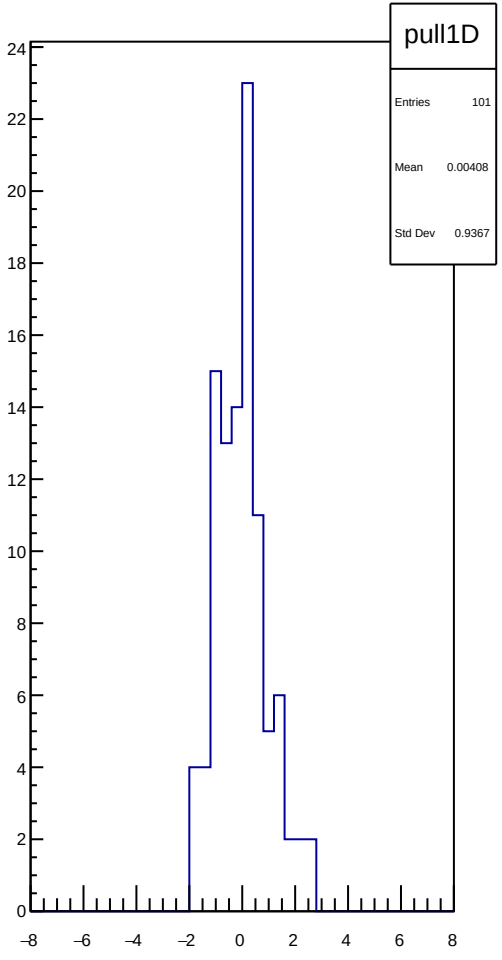

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.094e+05 / 100
p0 56.37 ± 0.04181
140
120
100
80
60
40

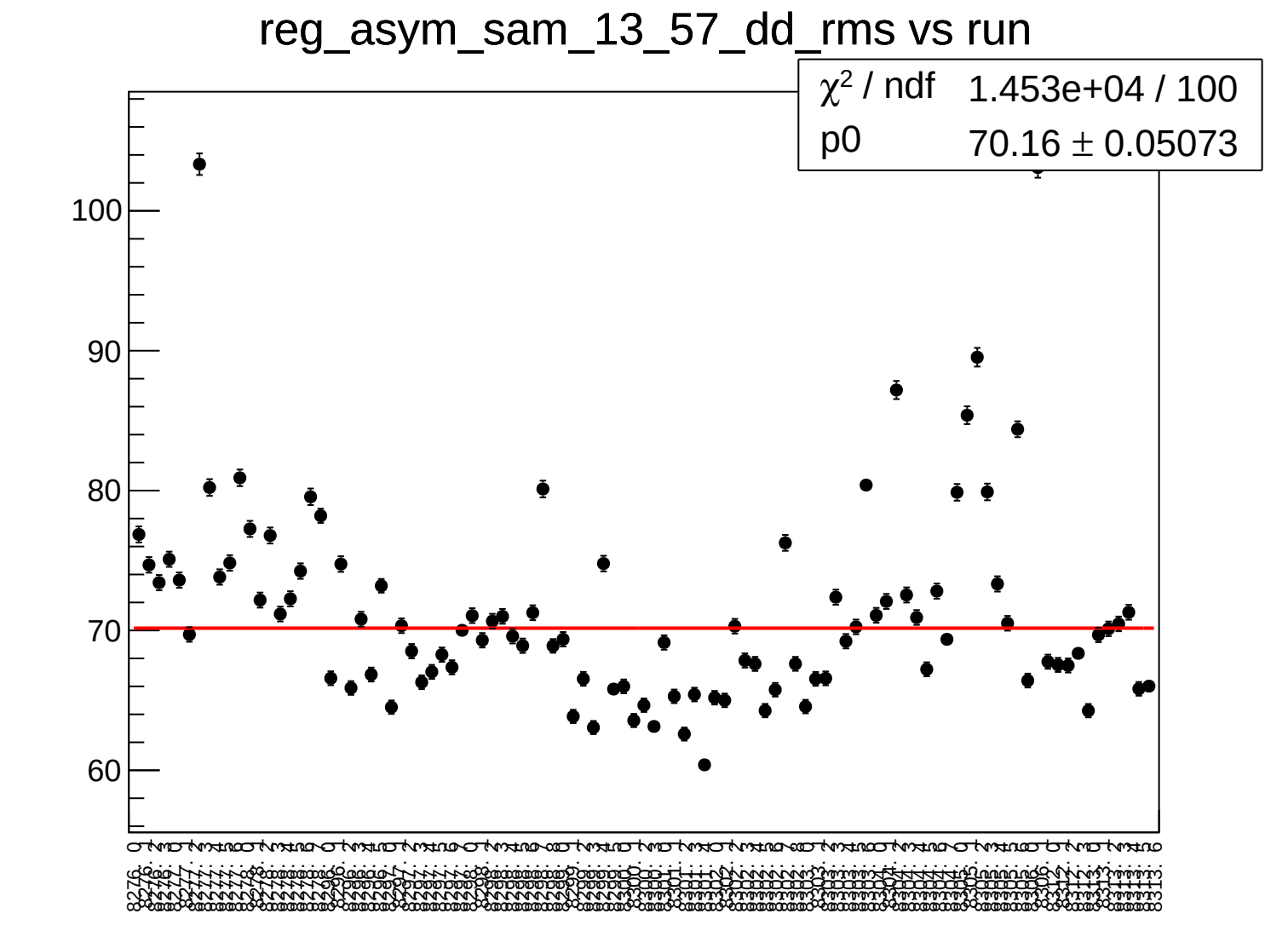

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 126.8 / 100
p0 −5.701e−14 ± 1.092e−13
pull
Entries 101
Mean −24.9
Std Dev 0

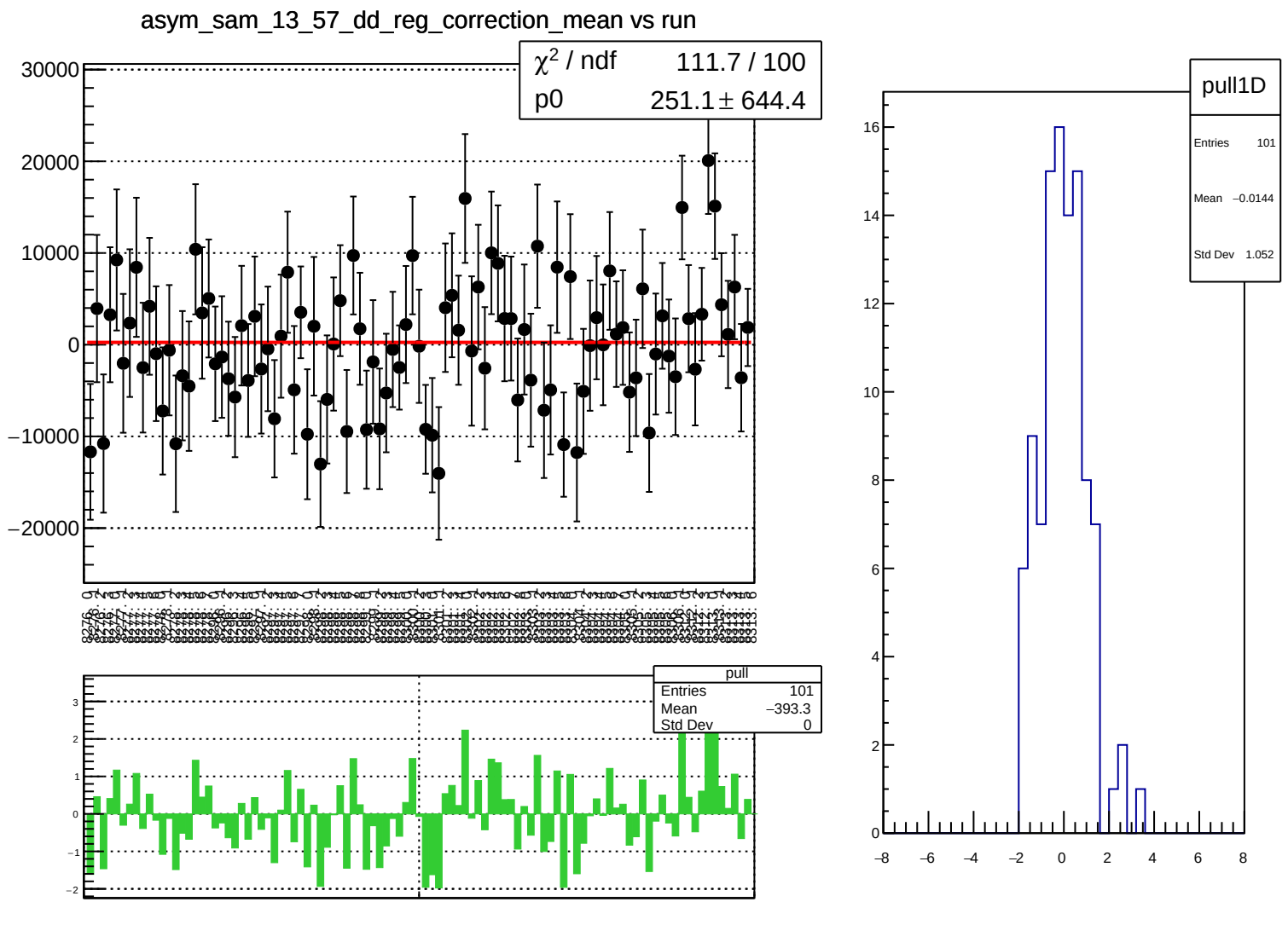

pull1D
Entries 101
Mean −0.07128
Std Dev 1.118

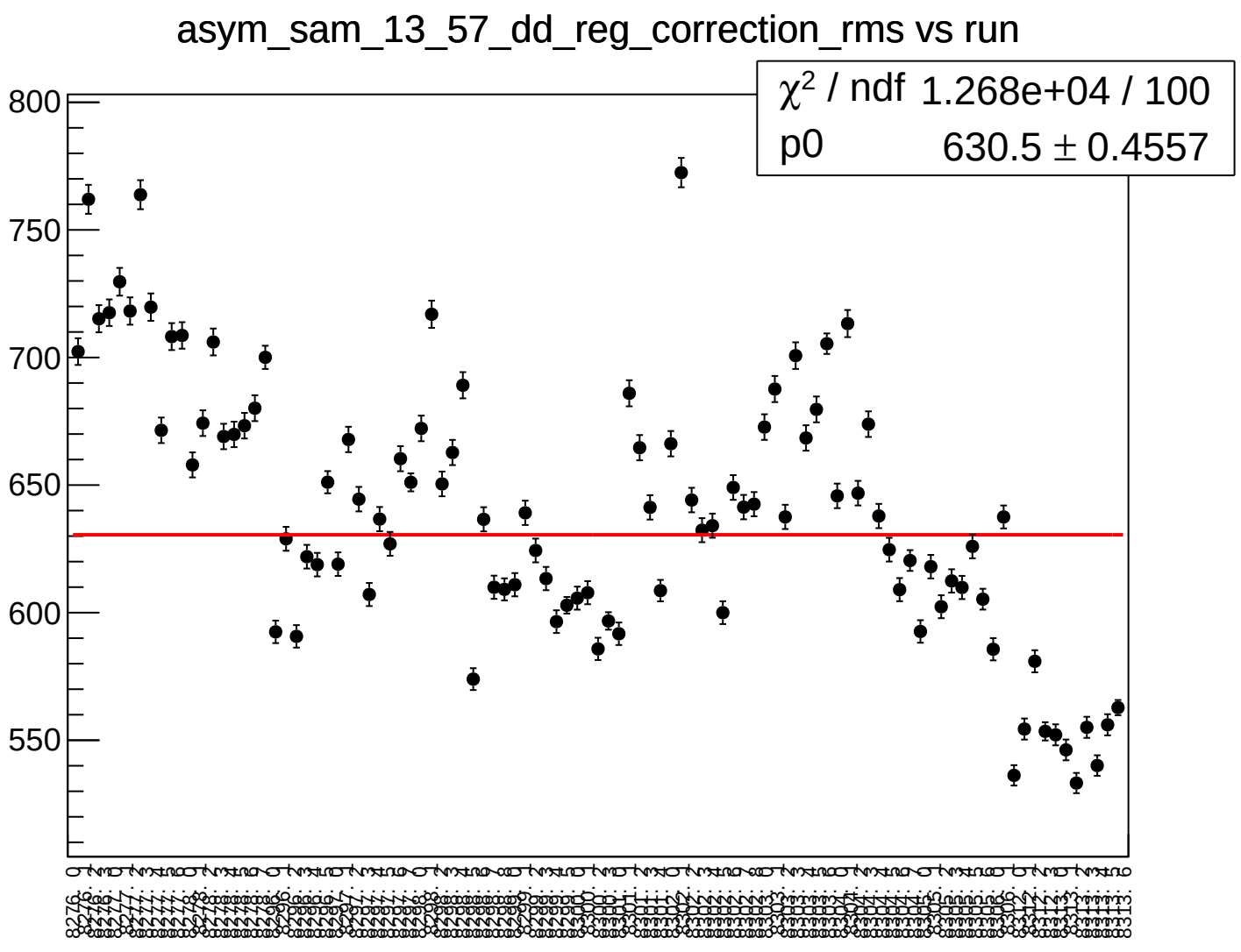

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.338e+05 / 100
p0 8.779e−11 ± 7.719e−14
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

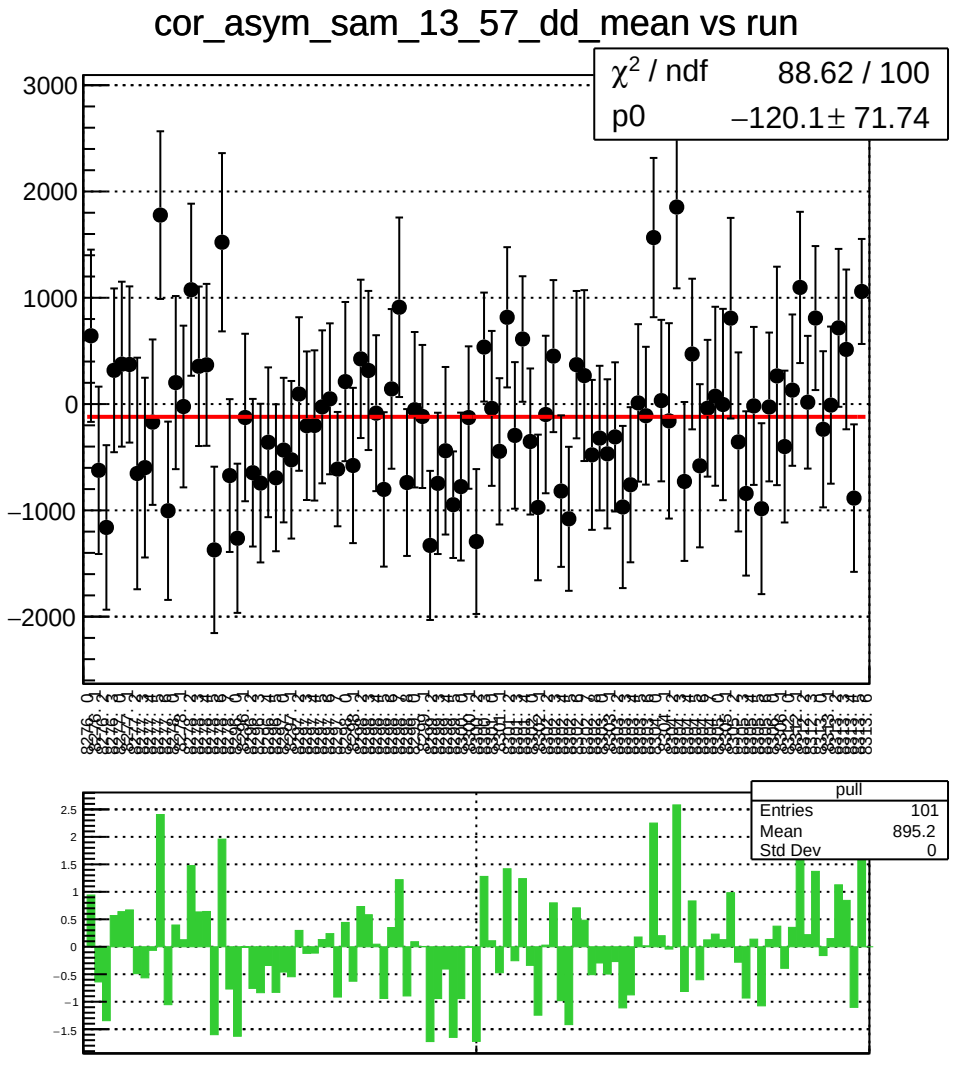

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 88.62 / 100
p0 −120.1± 71.74
3000
2000
1000
0
−1000
−2000
pull
Entries 101
Mean 894.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

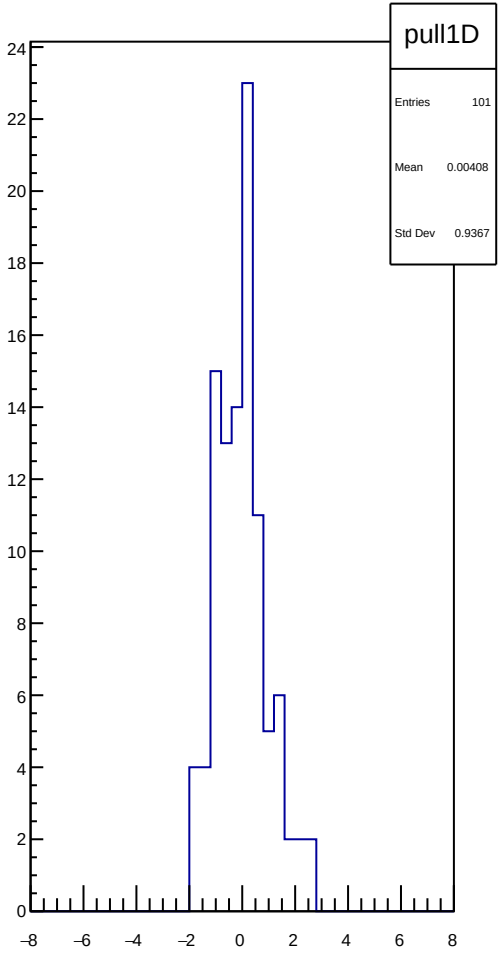

pull1D
Entries 101
Mean 0.00408
Std Dev 0.9367
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

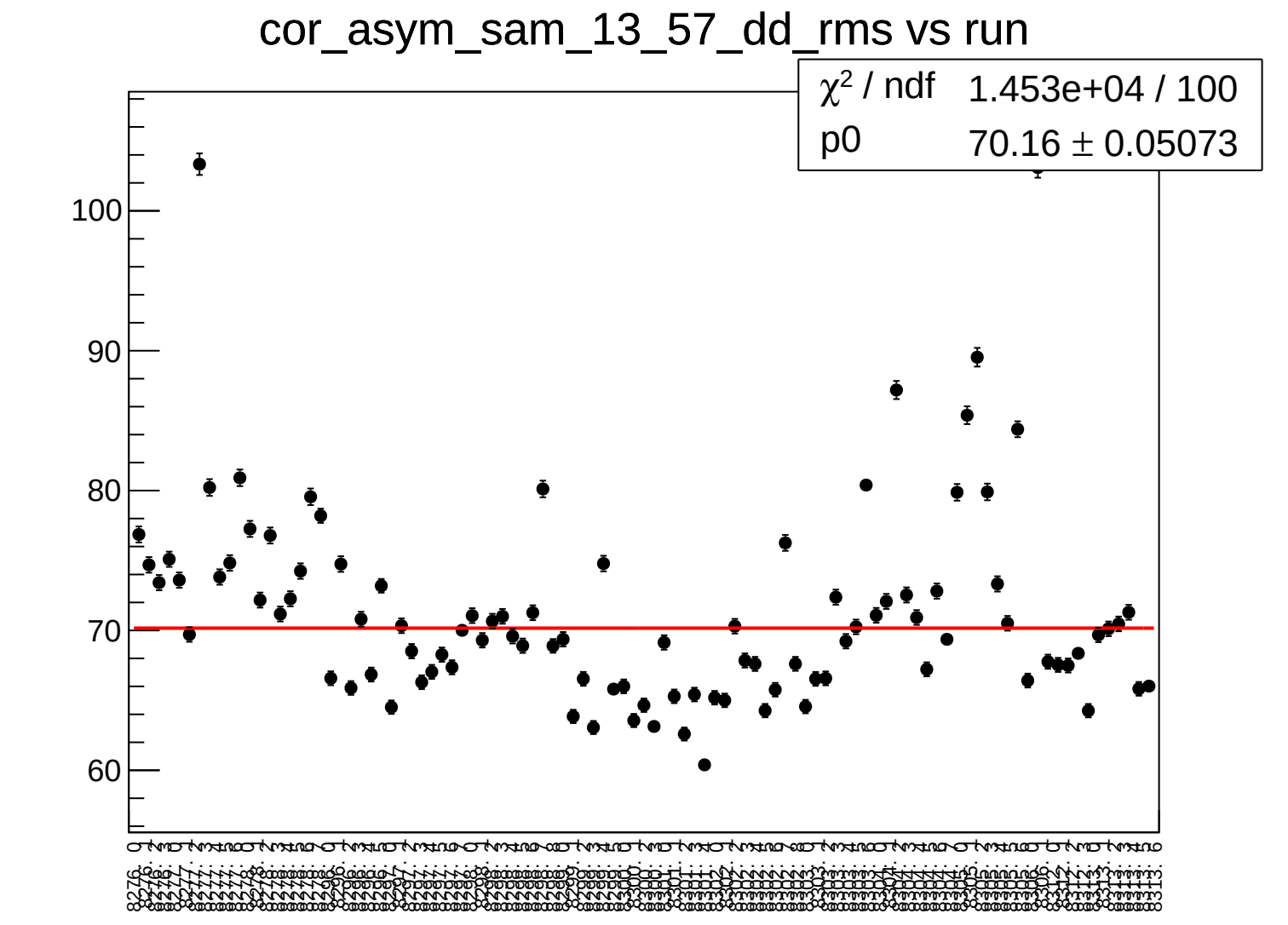

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.453e+04 / 100
p0 70.16 ± 0.05073
100
90
80
70
60

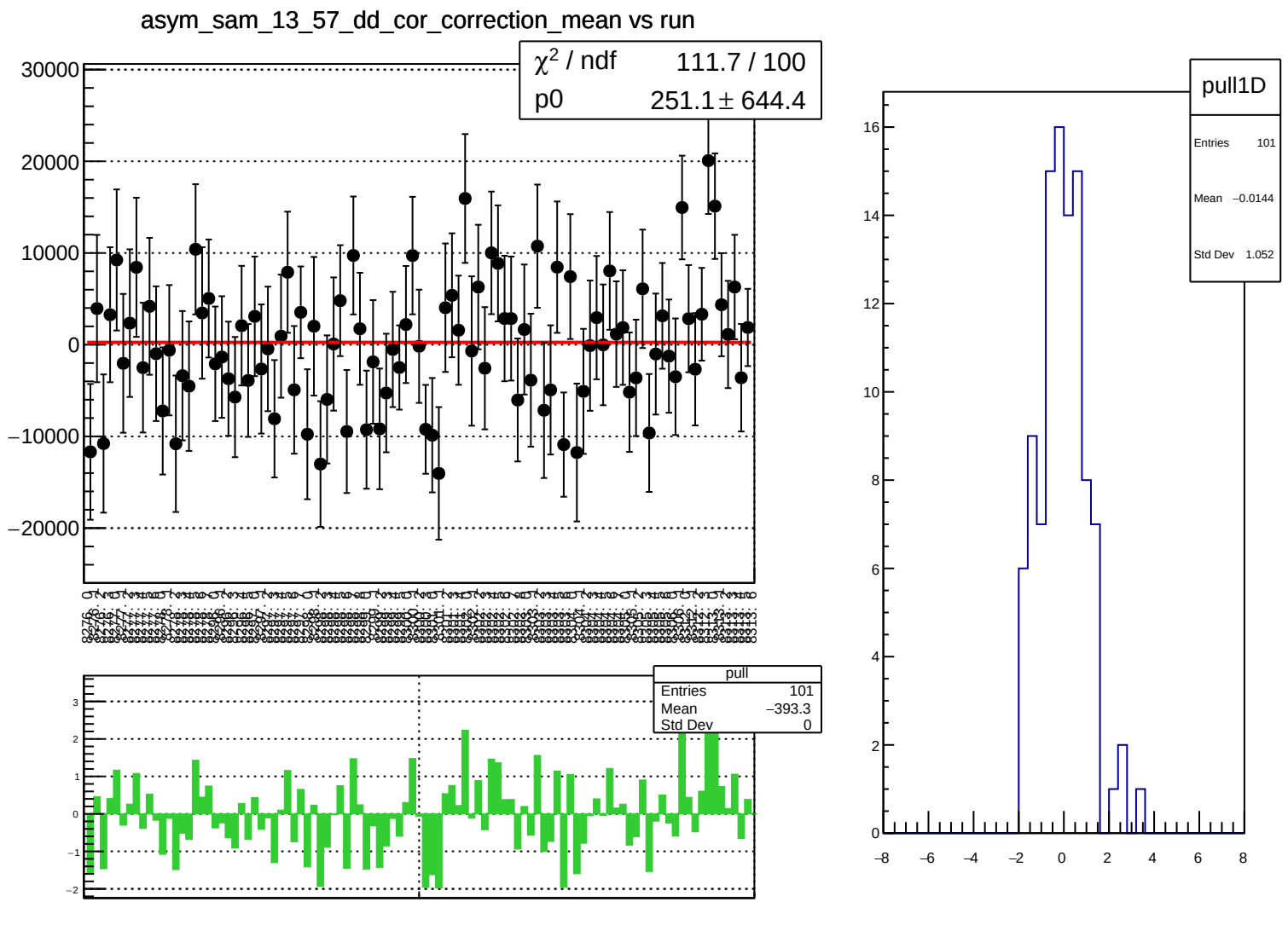

asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 111.7 / 100
p0 251.1 ± 644.4
30000
20000
10000
0
−10000
−20000
pull
Entries 101
Mean −393.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.0144
Std Dev 1.052
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

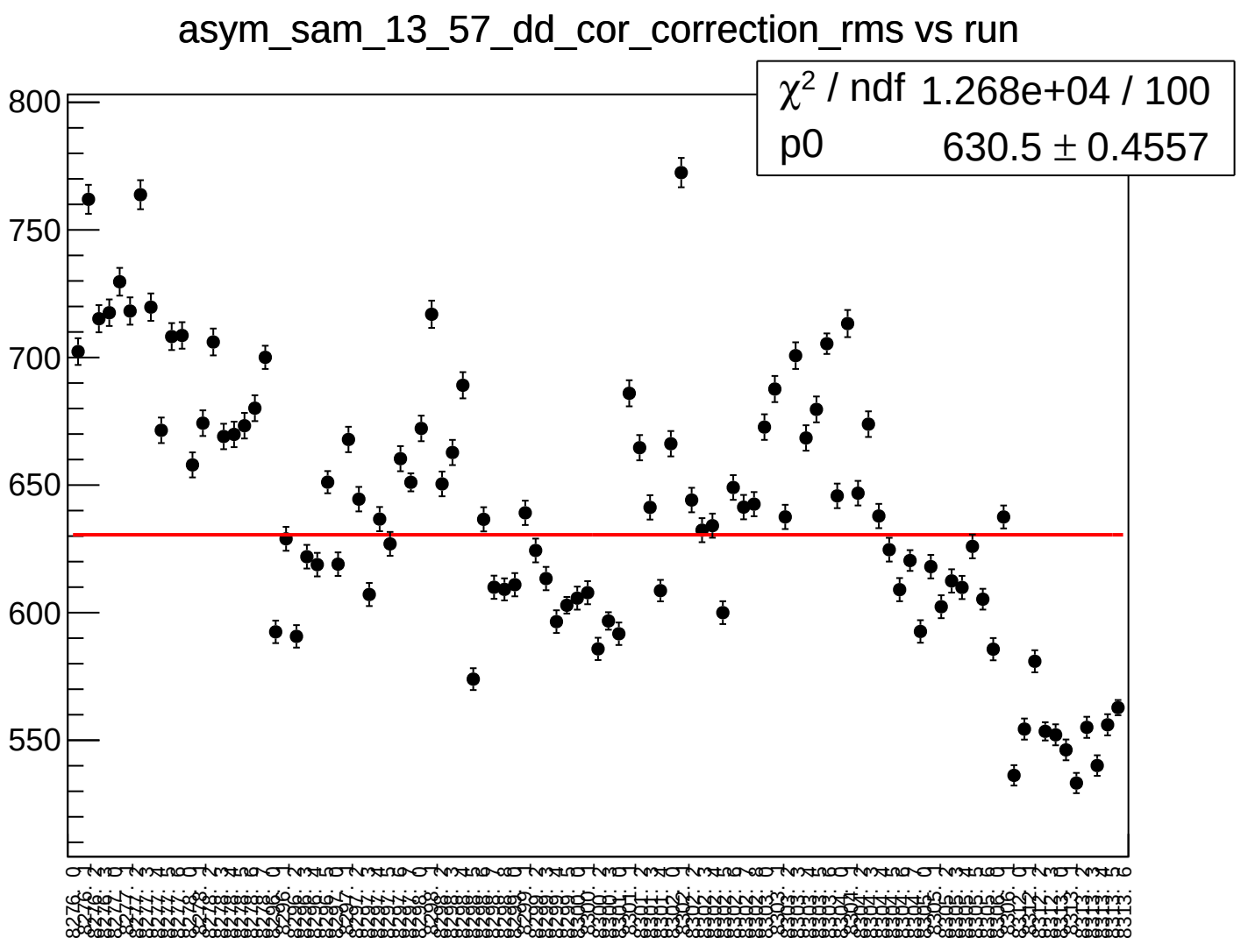

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 1.268e+04 / 100
p0 630.5 ± 0.4557
800
750
700
650
600
550

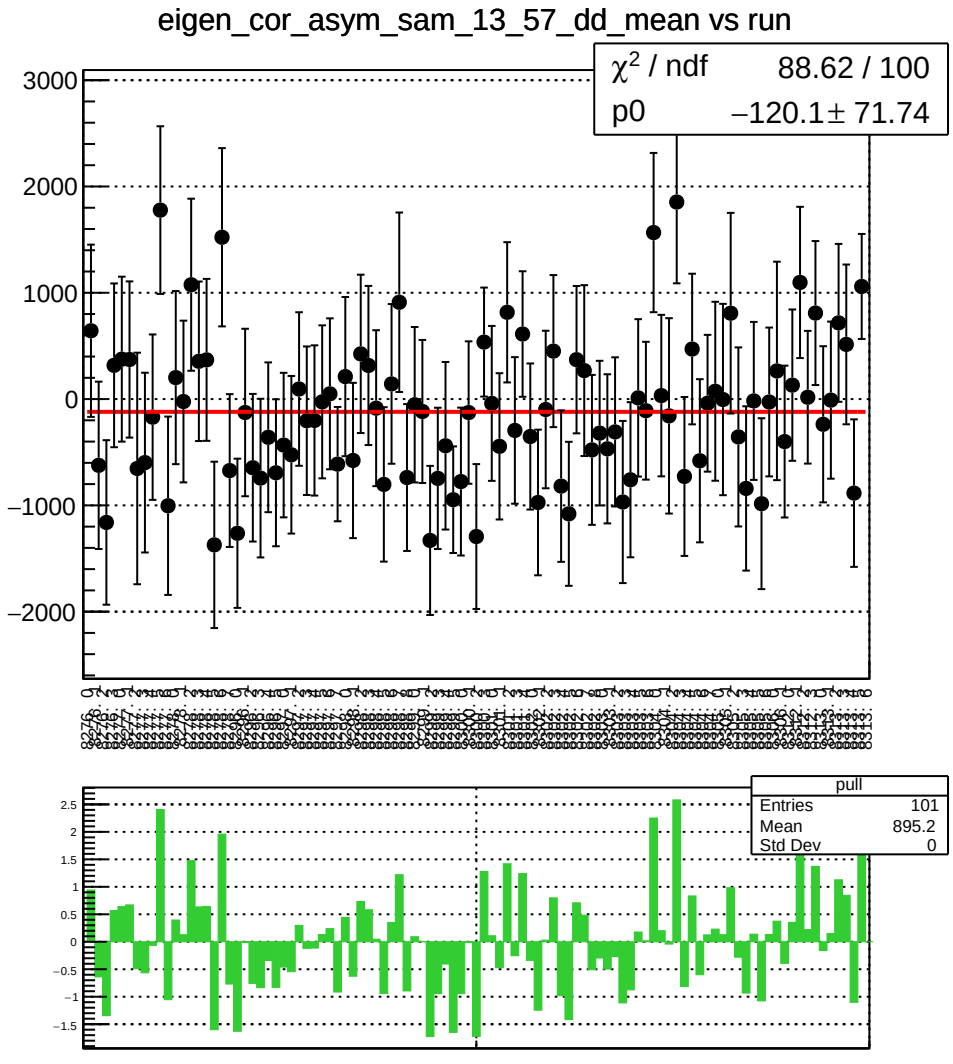

cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 88.62 / 100
p0 −120.1± 71.74
3000
2000
1000
0
−1000
−2000
pull
Entries 101
Mean 895.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

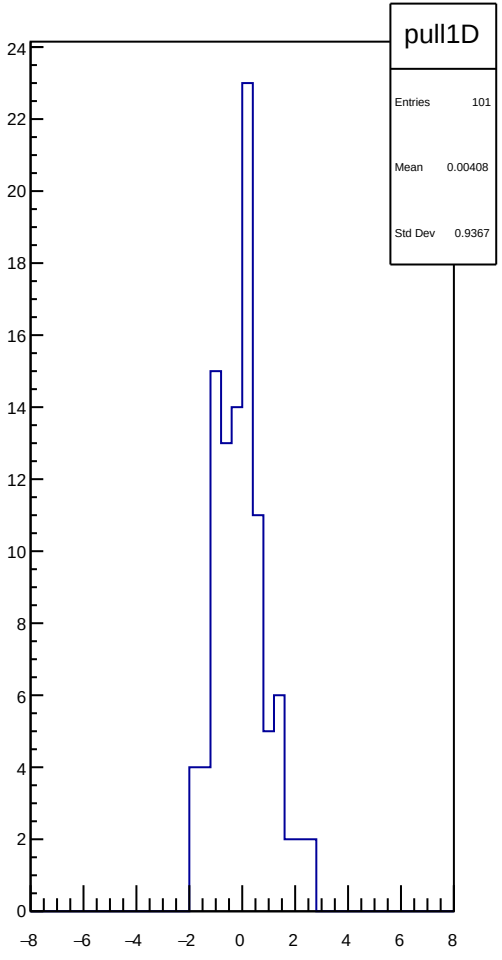

pull1D
Entries 101
Mean 0.00408
Std Dev 0.9367
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

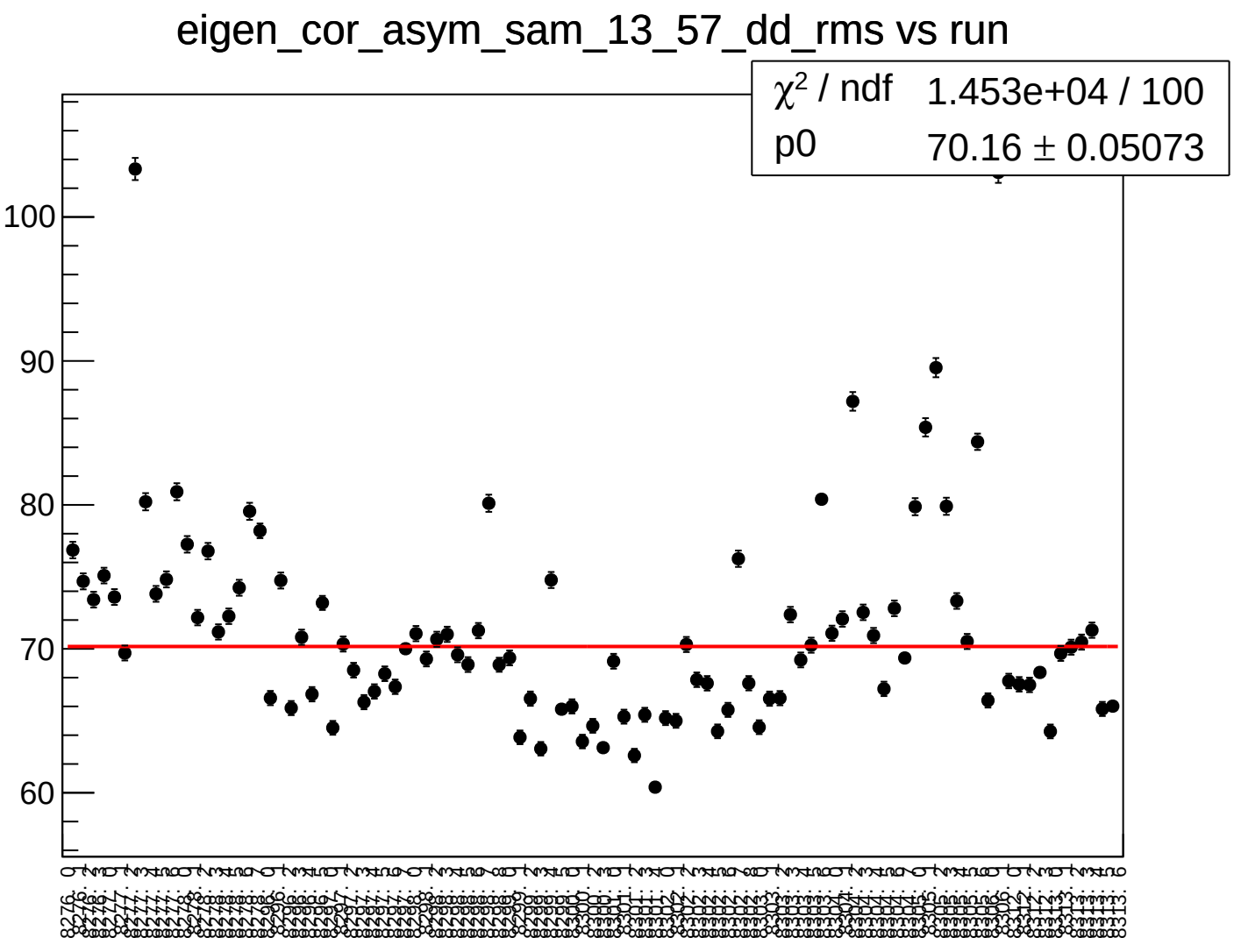

cor_asym_sam_13_57_dd_rms vs run
χ^2 / ndf 1.453e+04 / 100
p0 70.16 ± 0.05073
100
90
80
70
60

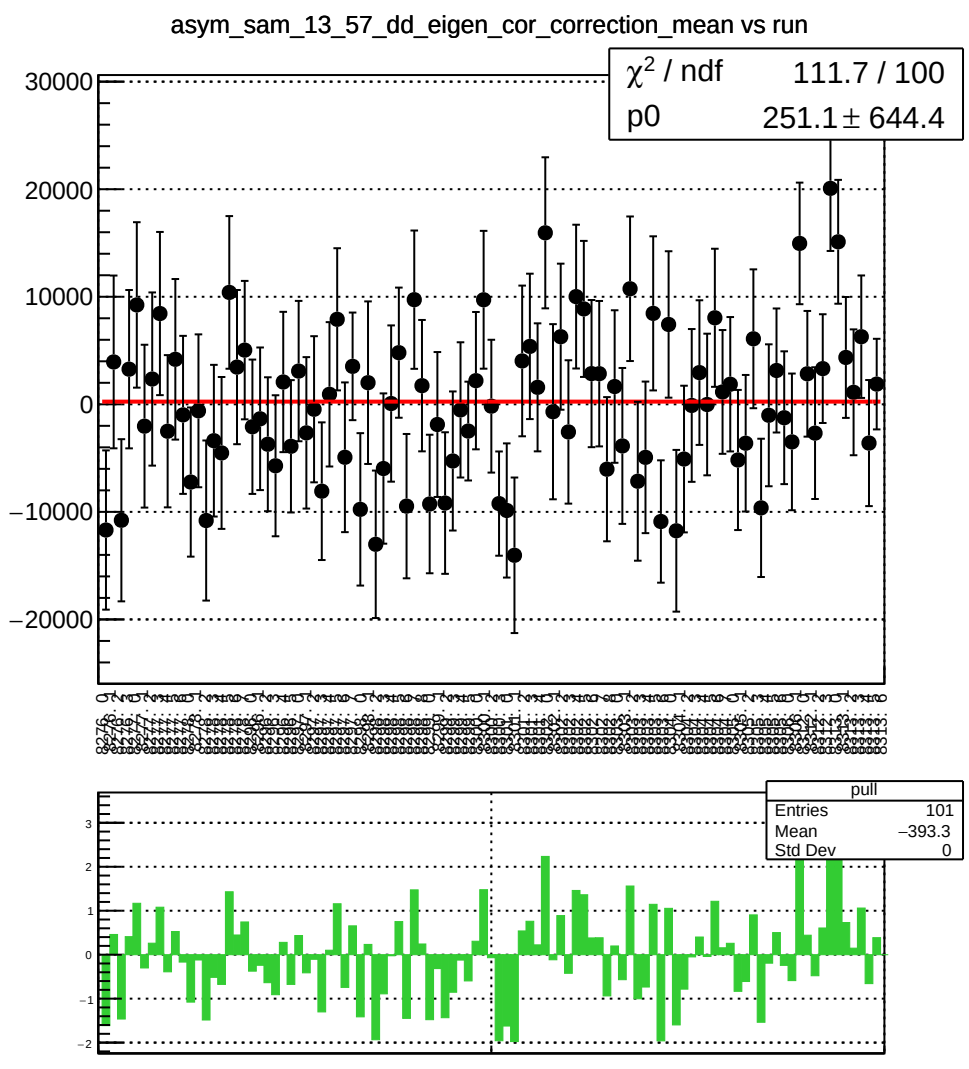

asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 111.7 / 100
p0 251.1 ± 644.4
30000
20000
10000
0
−10000
−20000
pull
Entries 101
Mean −393.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.0144
Std Dev 1.052
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

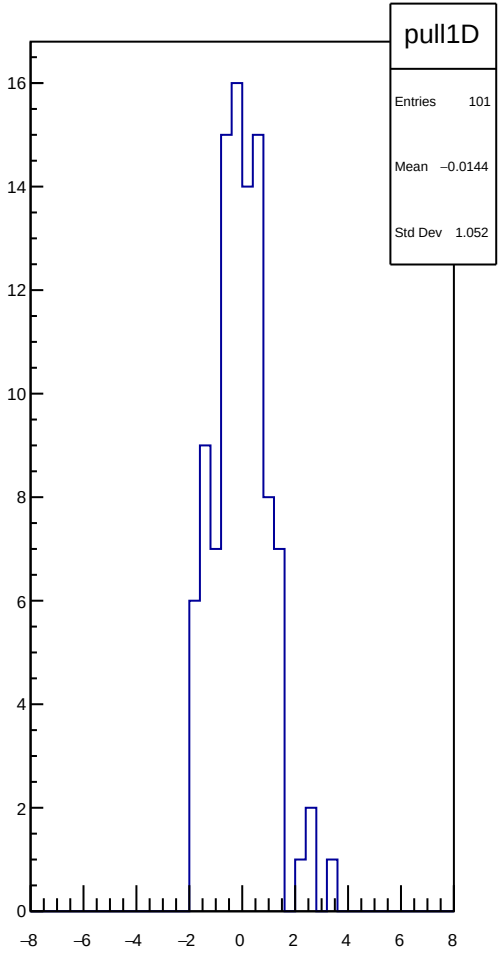

asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 1.268e+04 / 100
p0 630.5 ± 0.4557
800
750
700
650
600
550

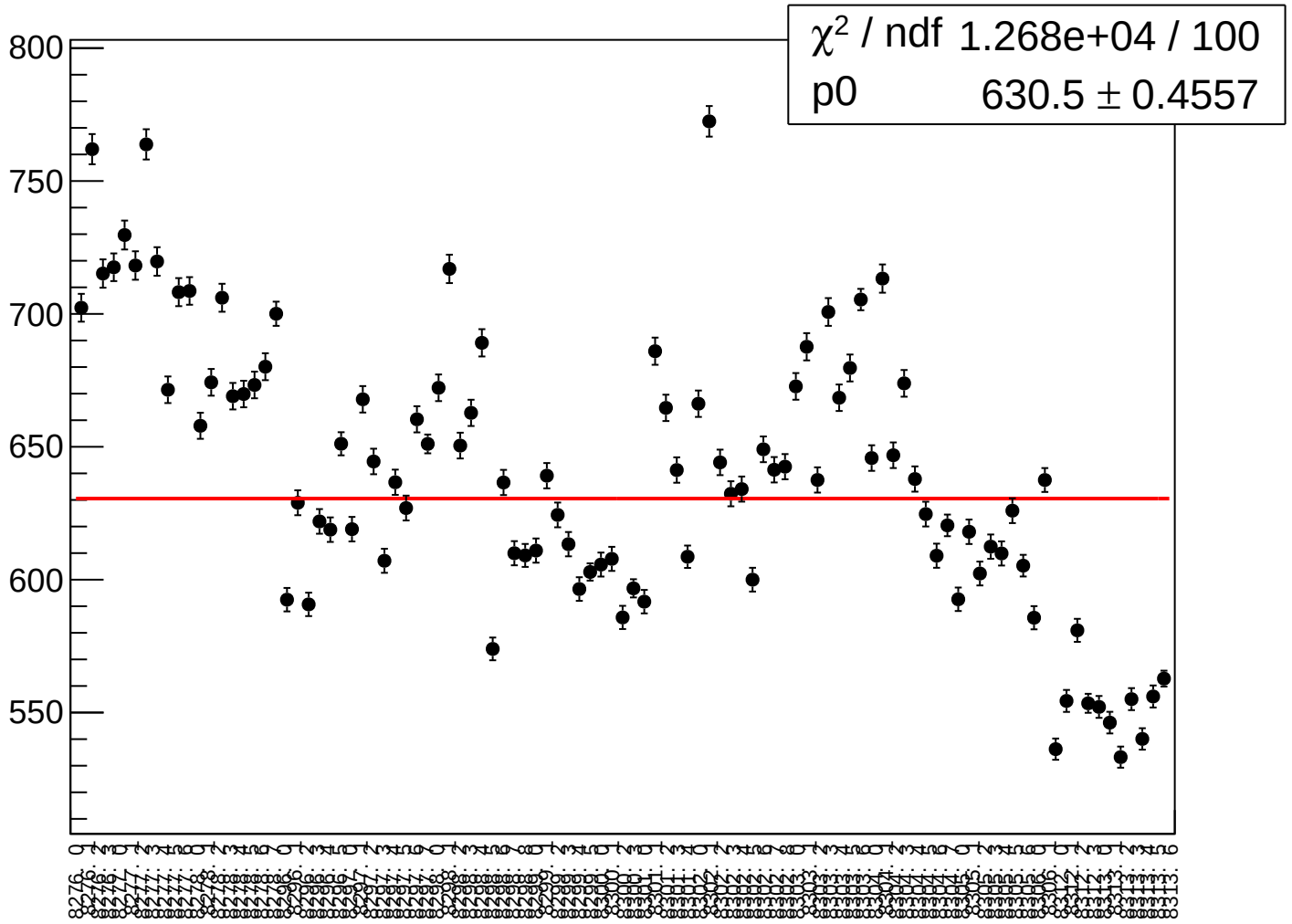

eigen_cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 88.62 / 100
p0 −120.1± 71.74
3000
2000
1000
0
−1000
−2000
pull
Entries 101
Mean 895.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

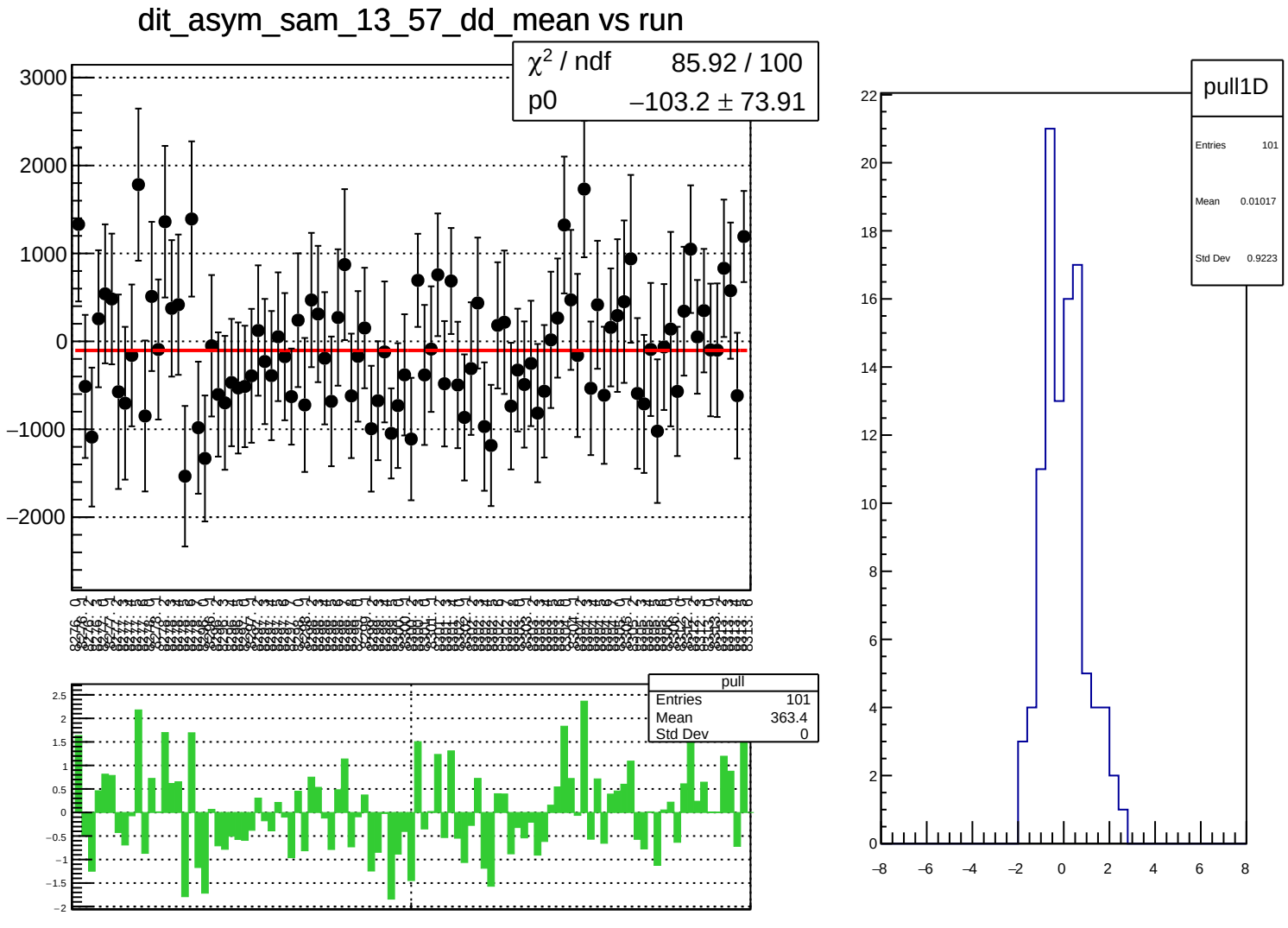

pull1D
Entries 101
Mean 0.00408
Std Dev 0.9367
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

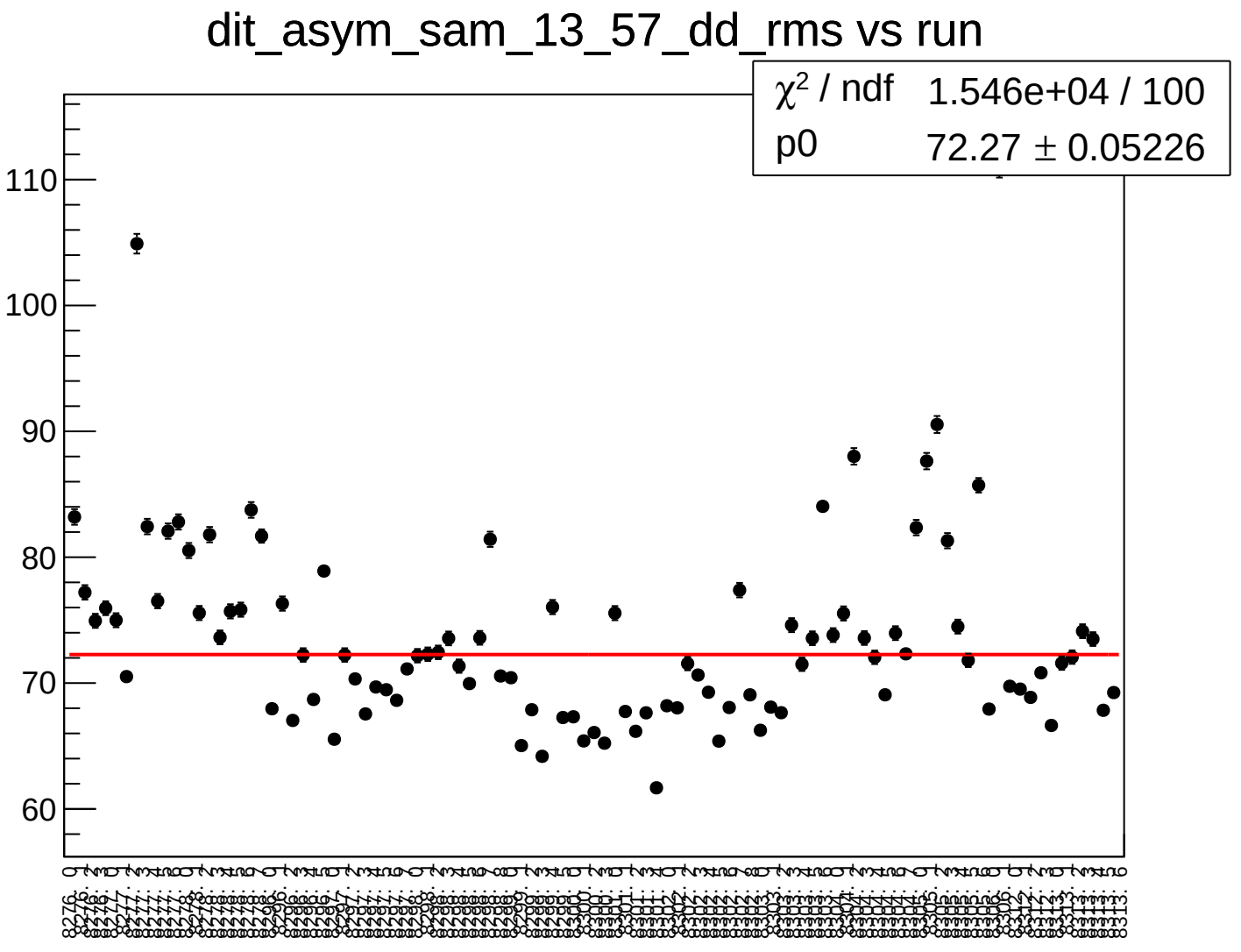

eigen_cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.453e+04 / 100
p0 70.16 ± 0.05073
100
90
80
70
60

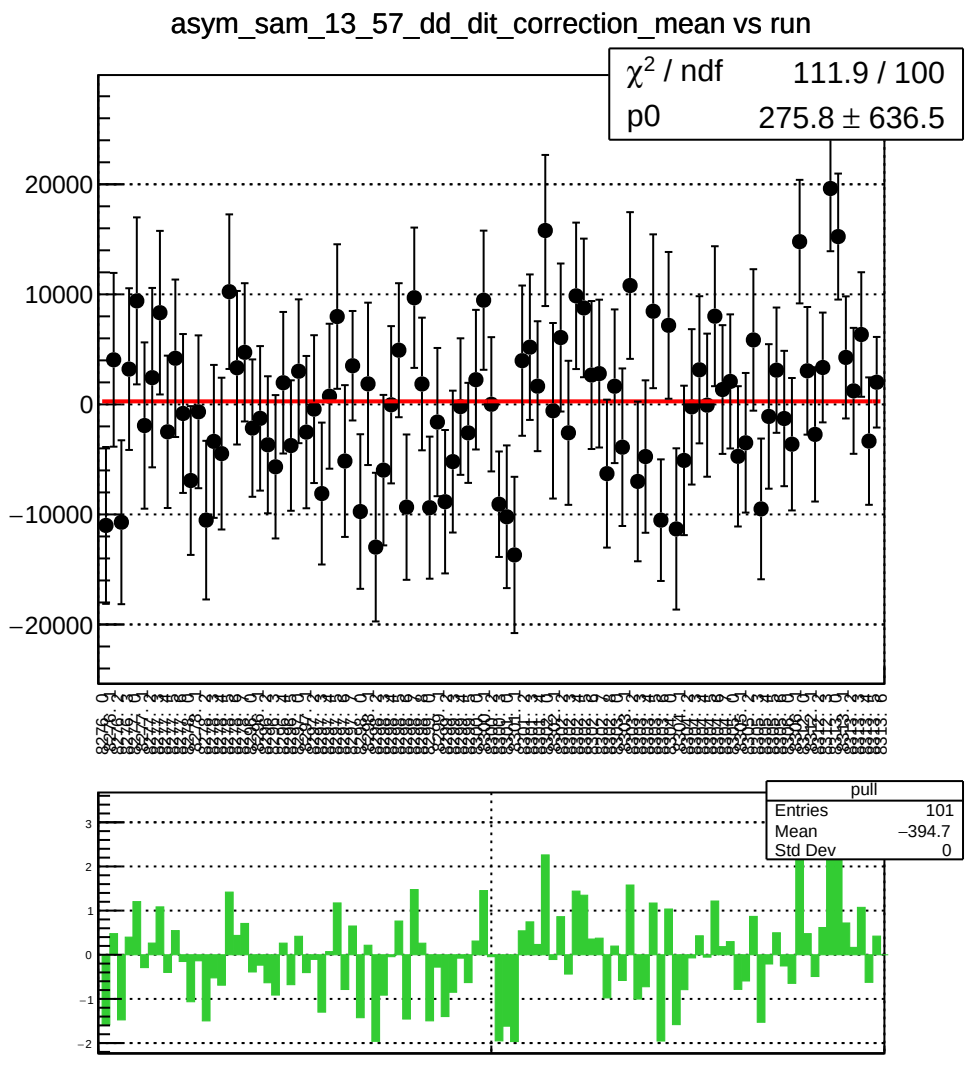

asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 111.7 / 100
p0 251.1 ± 644.4
30000
20000
10000
0
−10000
−20000
pull
Entries 101
Mean −393.3
Std Dev 0
3
2
1
0
−1
−2

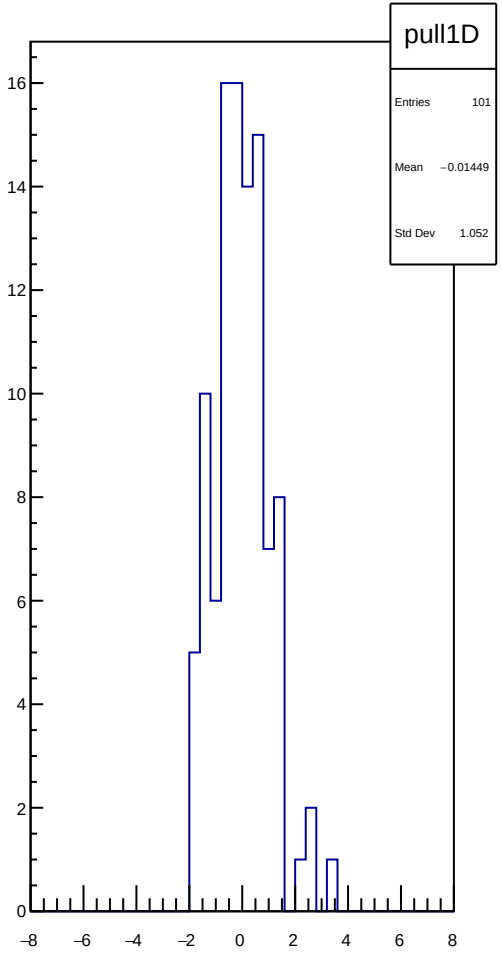

pull1D
Entries 101
Mean −0.0144
Std Dev 1.052
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.268e+04 / 100
p0 630.5 ± 0.4557
800
750
700
650
600
550


dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 85.92 / 100
p0 −103.2 ± 73.91
pull
Entries 101
Mean 363.4
Std Dev 0
pull1D
Entries 101
Mean 0.01017
Std Dev 0.9223


dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.546e+04 / 100
p0 72.27 ± 0.05226
110
100
90
80
70
60


asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 111.9 / 100
p0 275.8 ± 636.5
20000
10000
0
−10000
−20000
pull
Entries 101
Mean −394.7
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 101
Mean −0.01449
Std Dev 1.052
16
14
12
10
8
6
4
2
0
−8
−6
−4
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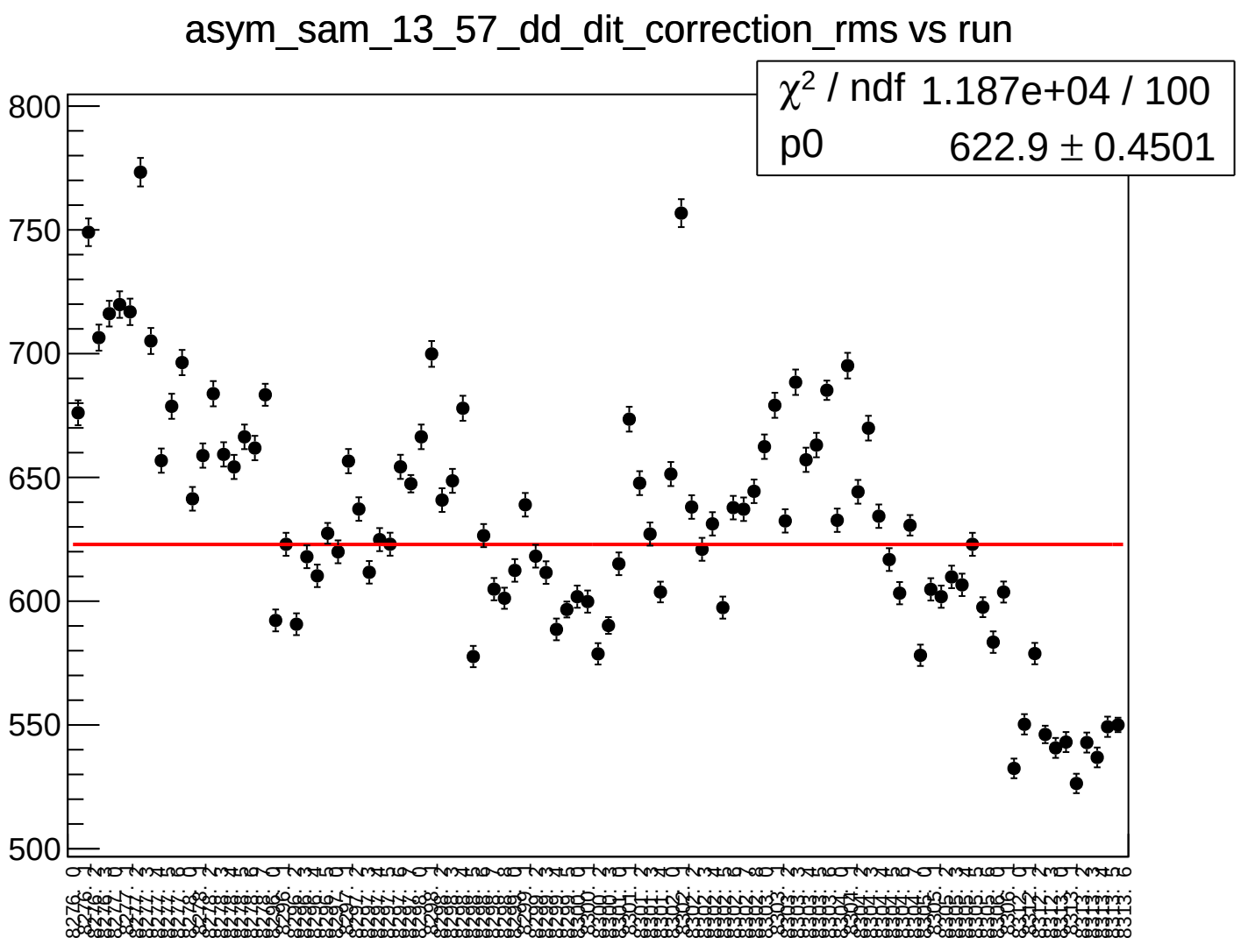
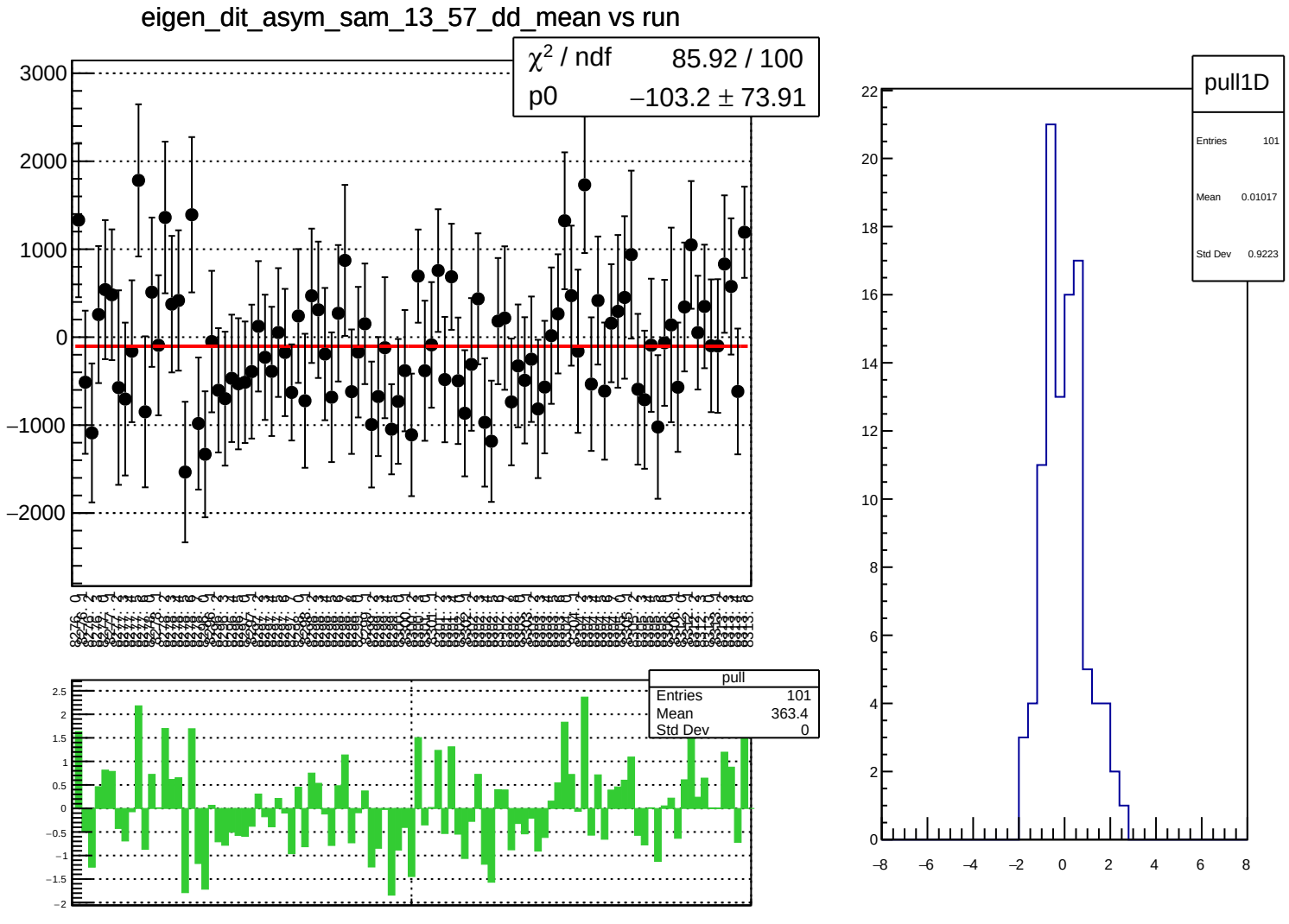
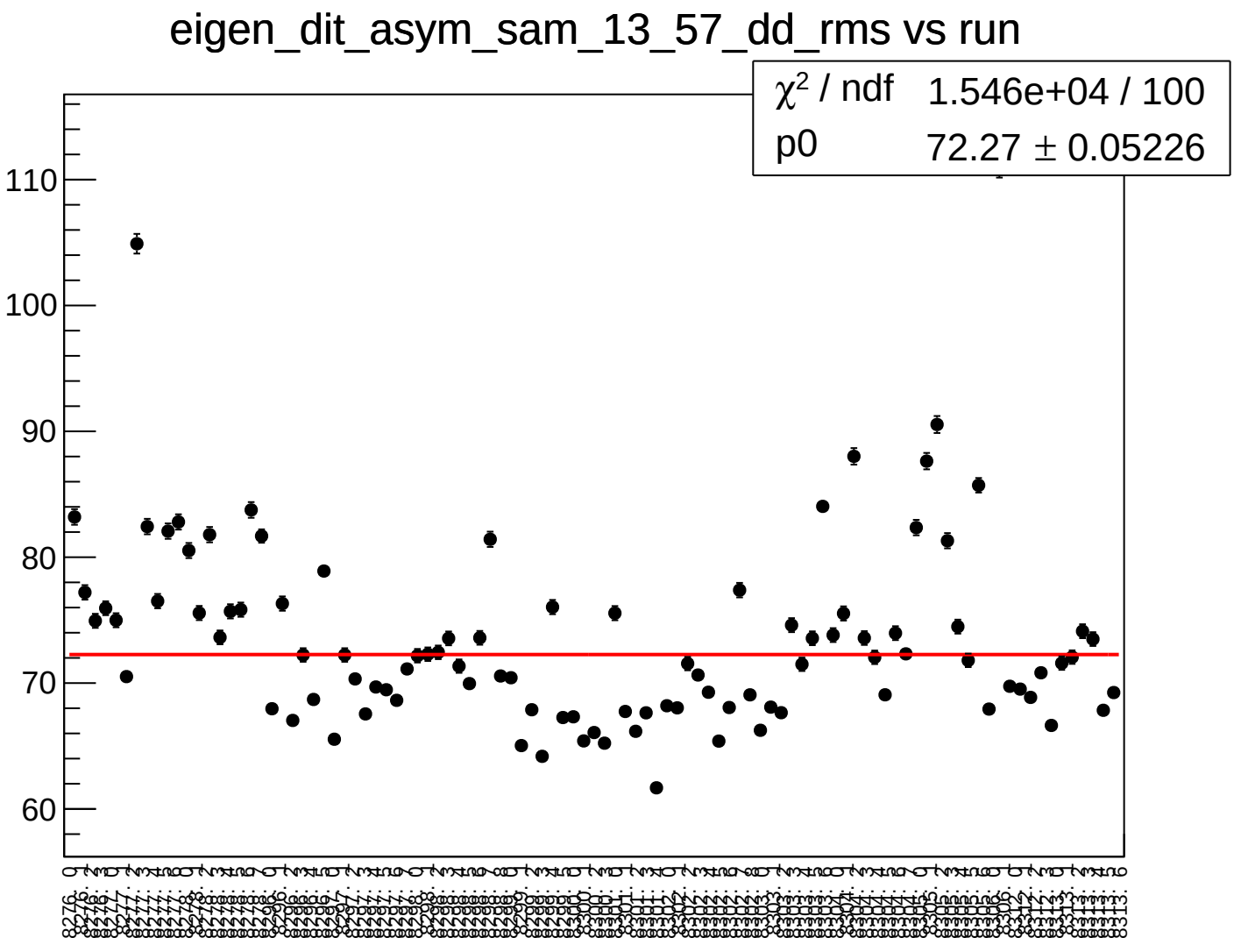
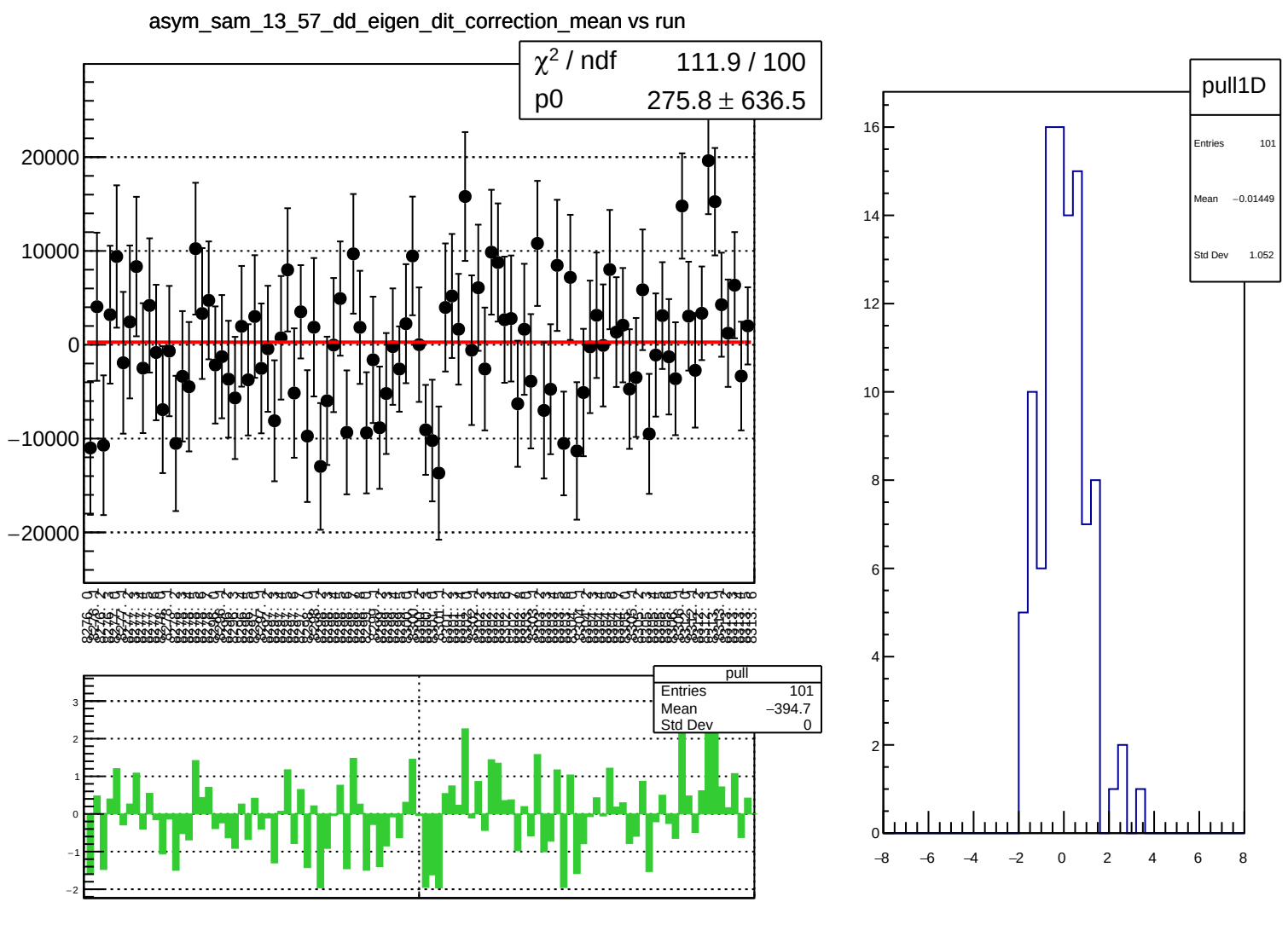
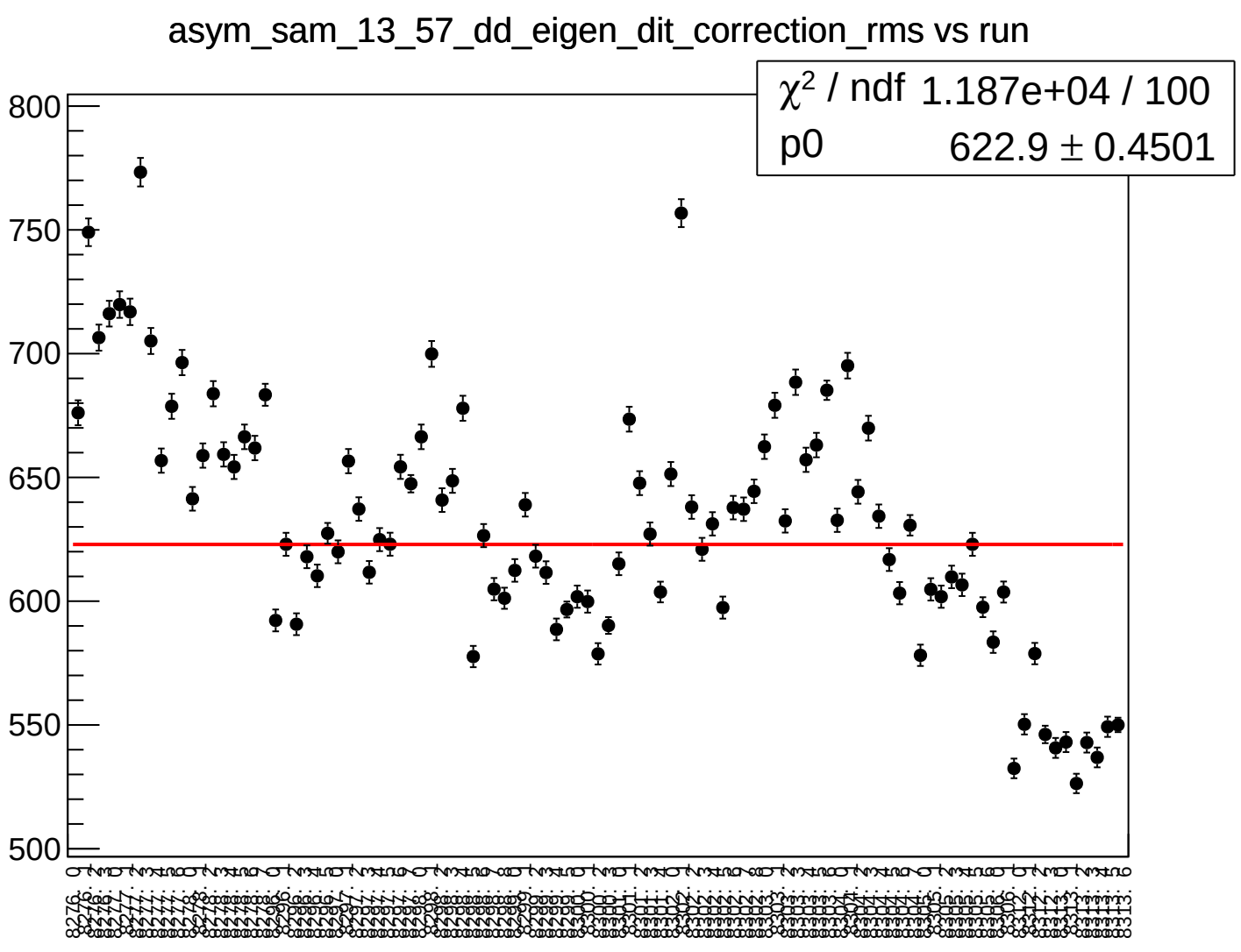
0
2
4
6
8

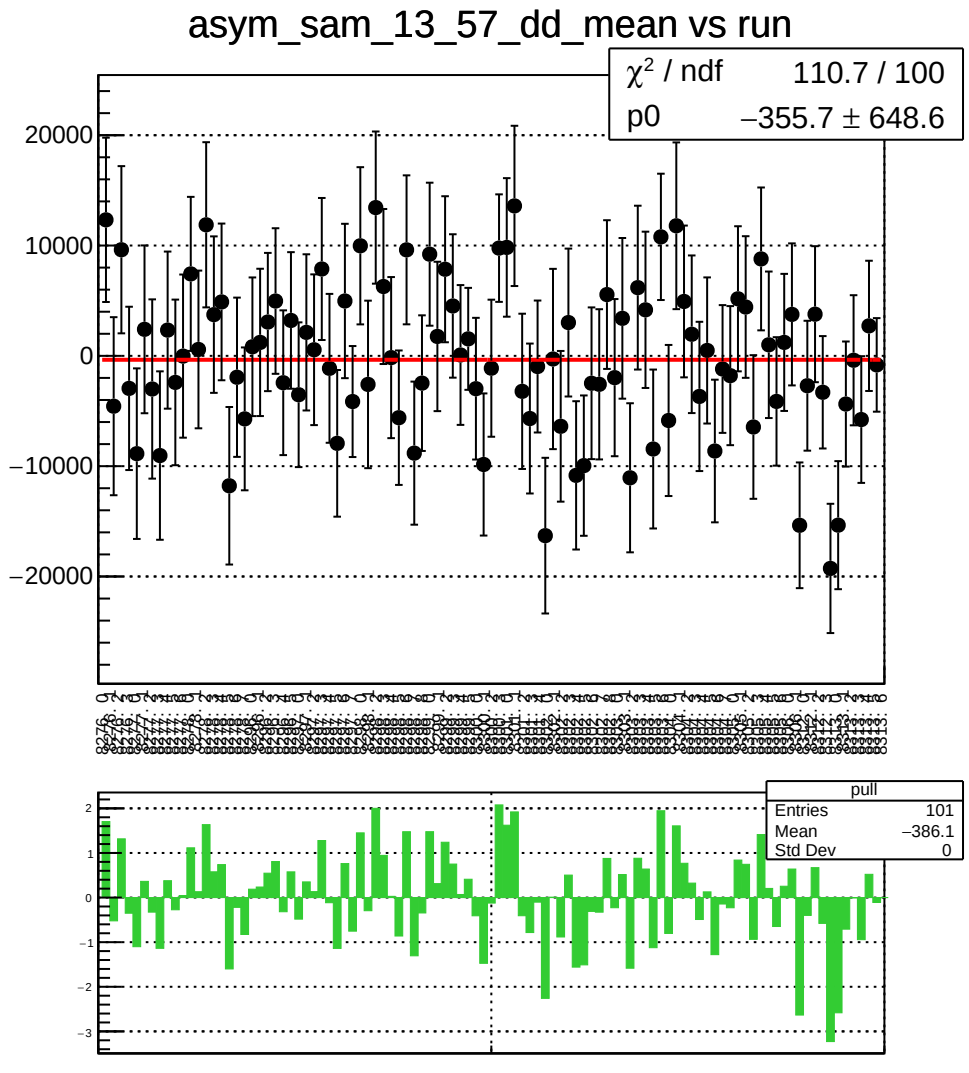

asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 1.187e+04 / 100
p0 622.9 ± 0.4501
800
750
700
650
600
550
500

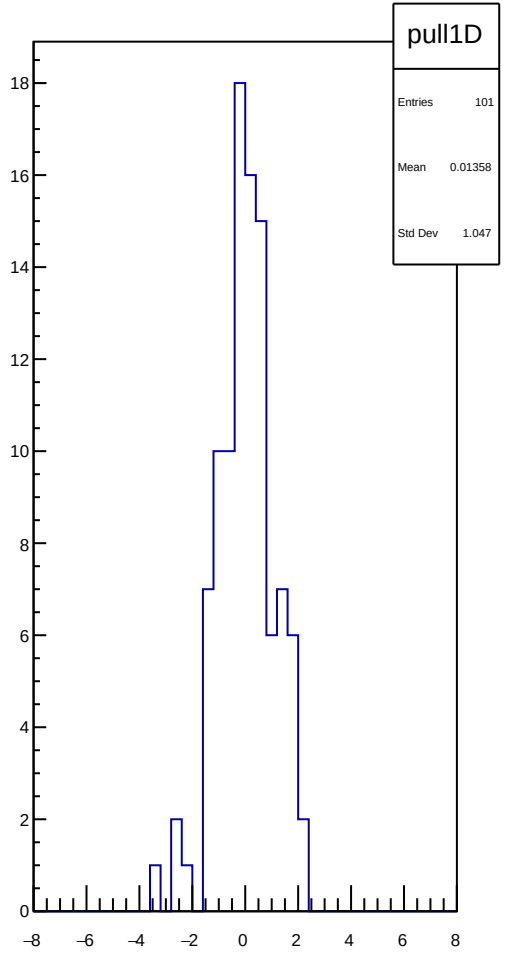

eigen_dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 85.92 / 100
p0 −103.2 ± 73.91
3000
2000
1000
0
−1000
−2000
pull
Entries 101
Mean 363.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 101
Mean 0.01017
Std Dev 0.9223
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

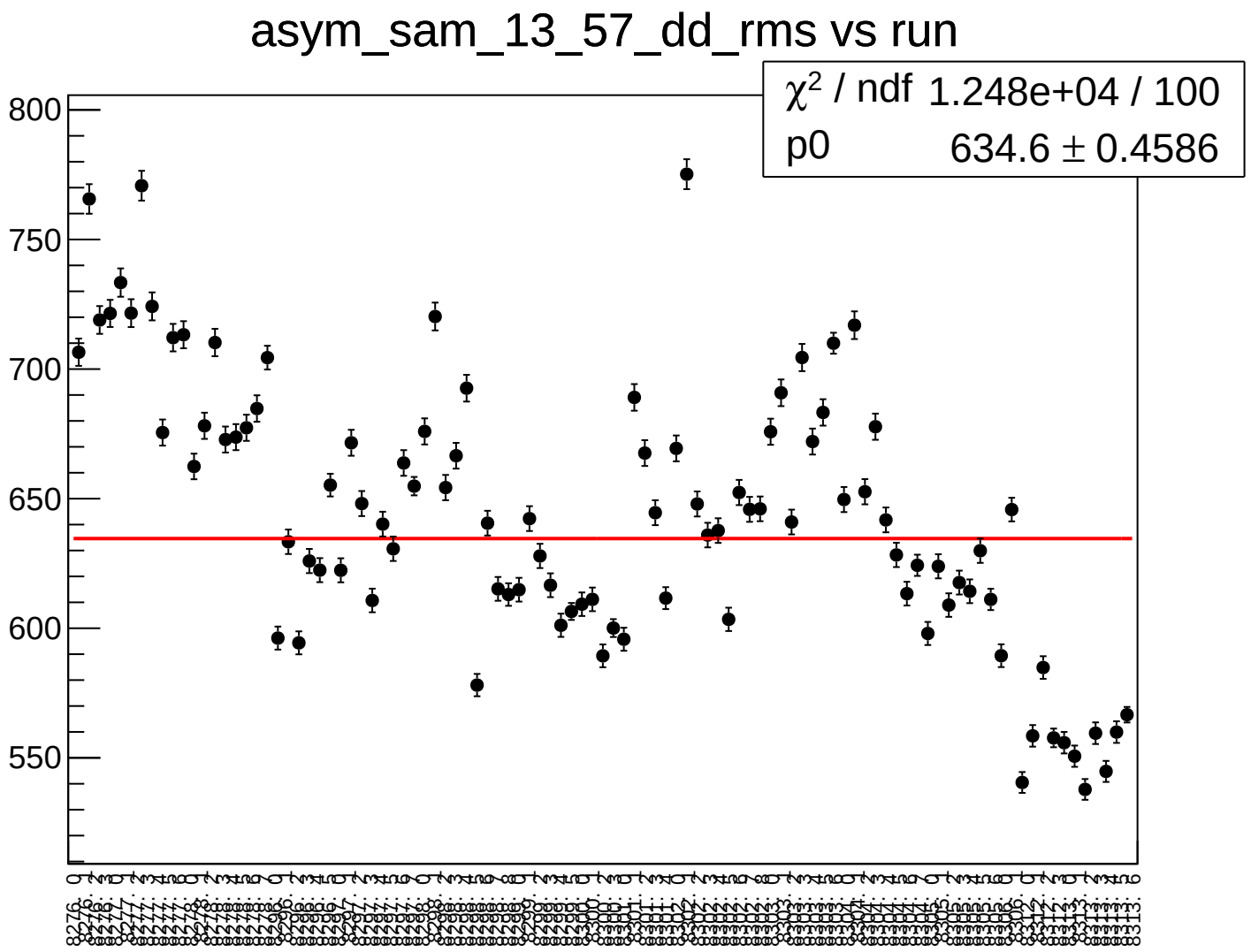

eigen_dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.546e+04 / 100
p0 72.27 ± 0.05226
110
100
90
80
70
60

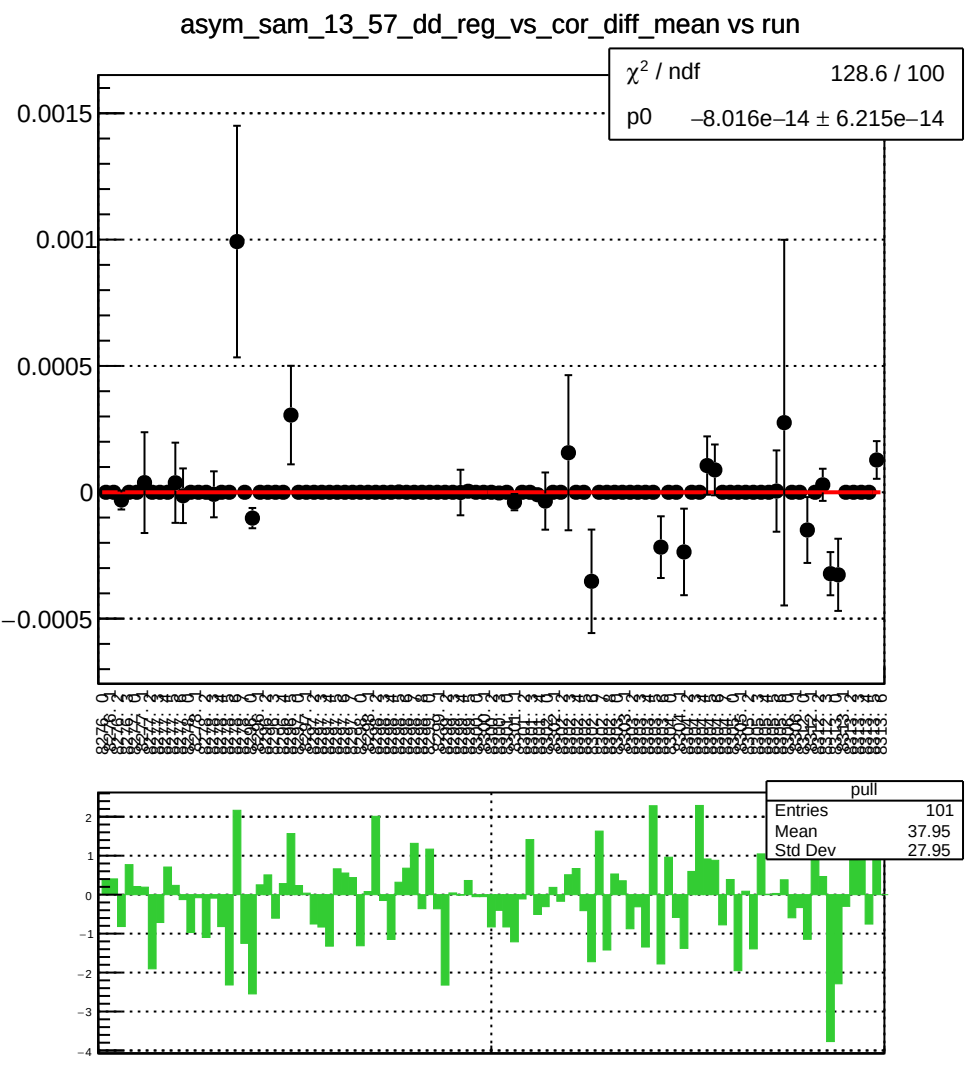

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 111.9 / 100
p0 275.8 ± 636.5
20000
10000
0
−10000
−20000
pull
Entries 101
Mean −394.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.01449
Std Dev 1.052
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

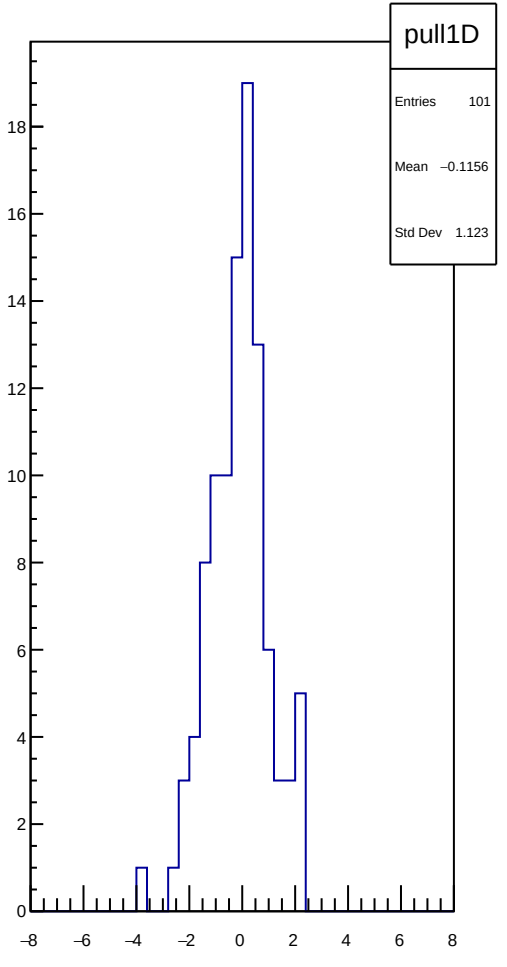

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.187e+04 / 100
p0 622.9 ± 0.4501
800
750
700
650
600
550
500

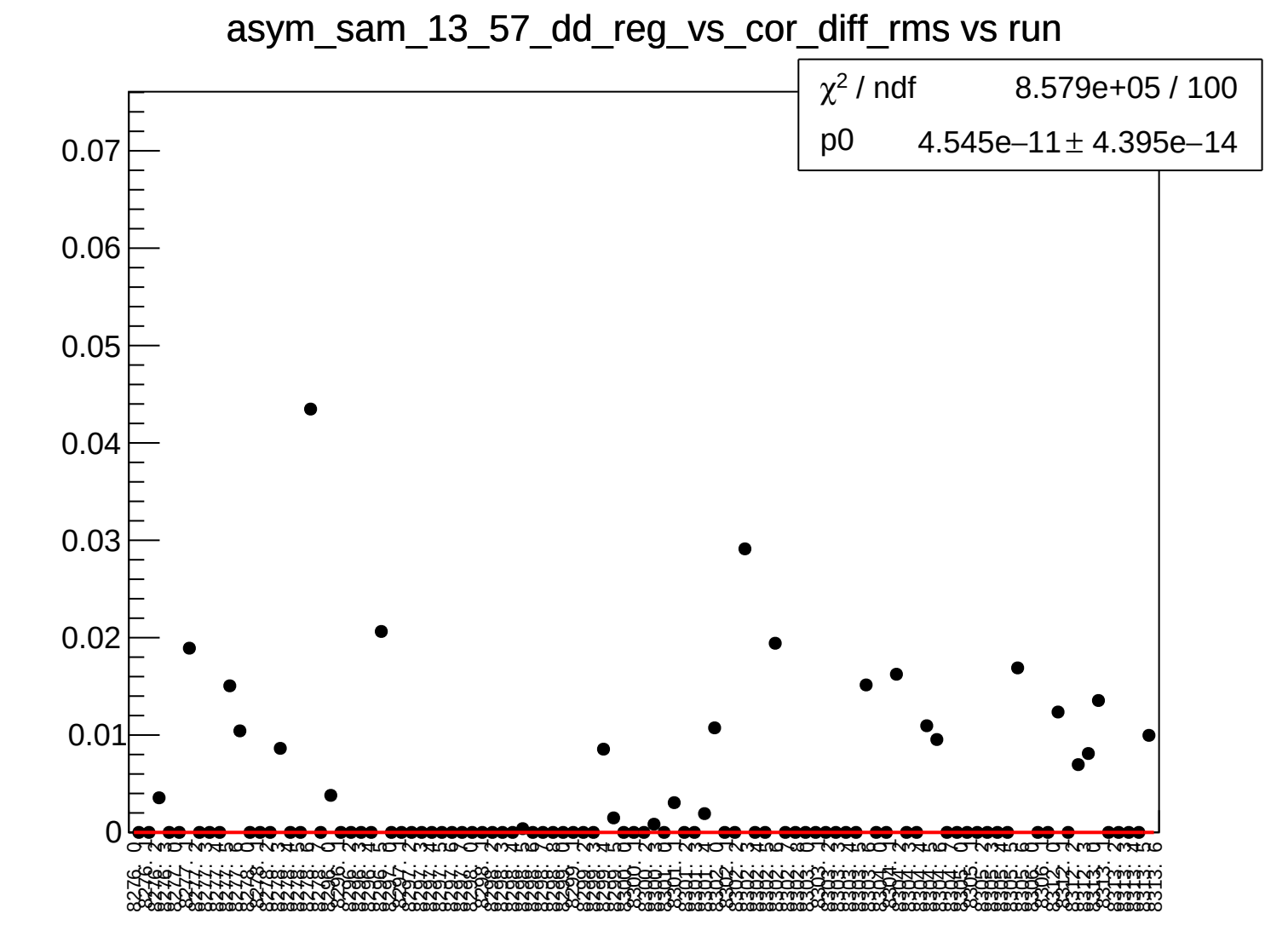

asym_sam_13_57_dd_mean vs run
χ² / ndf 110.7 / 100
p0 −355.7 ± 648.6
20000
10000
0
−10000
−20000
pull
Entries 101
Mean −386.1
Std Dev 0
2
1
0
−1
−2
−3

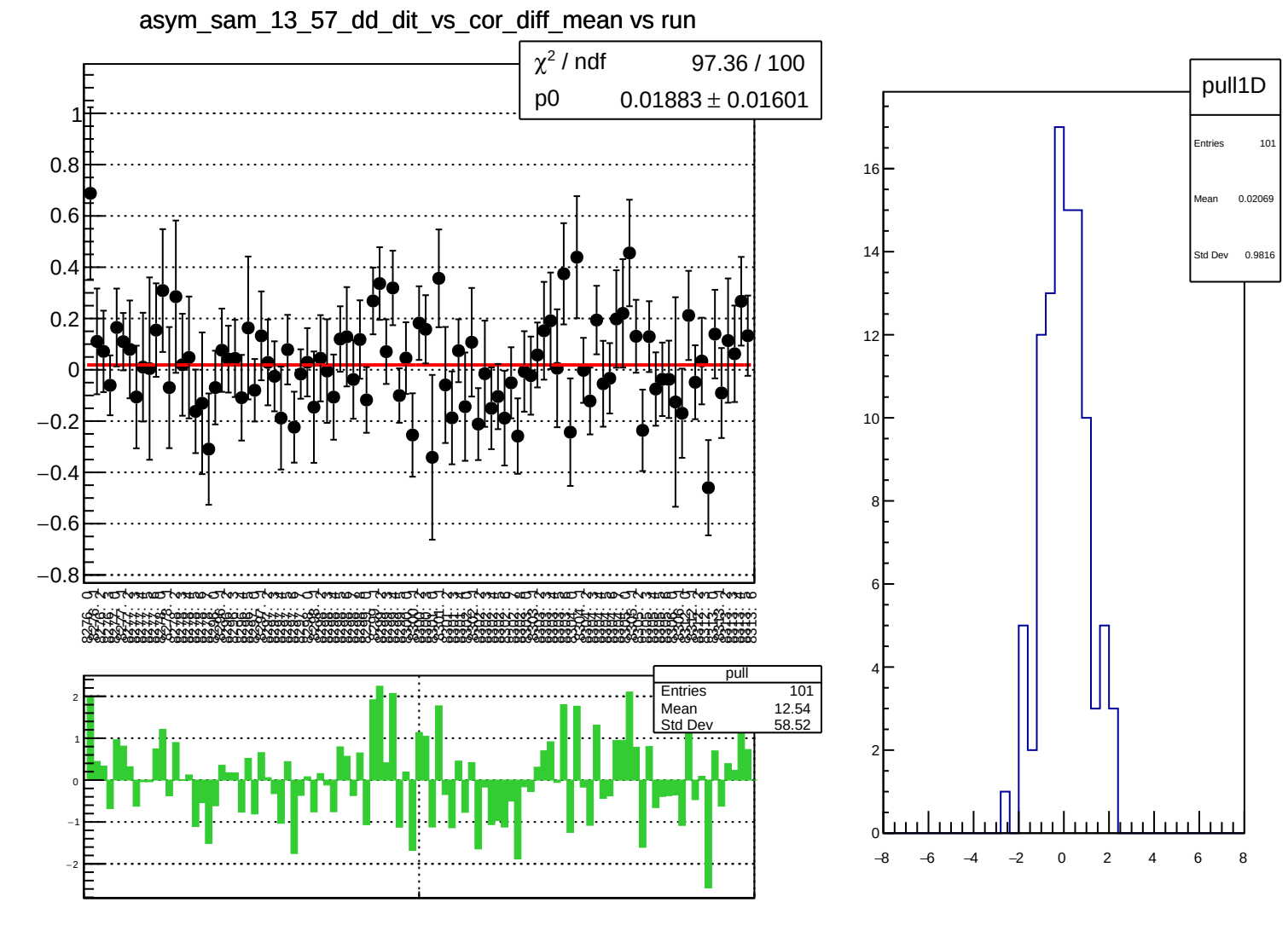

pull1D
Entries 101
Mean 0.01358
Std Dev 1.047
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

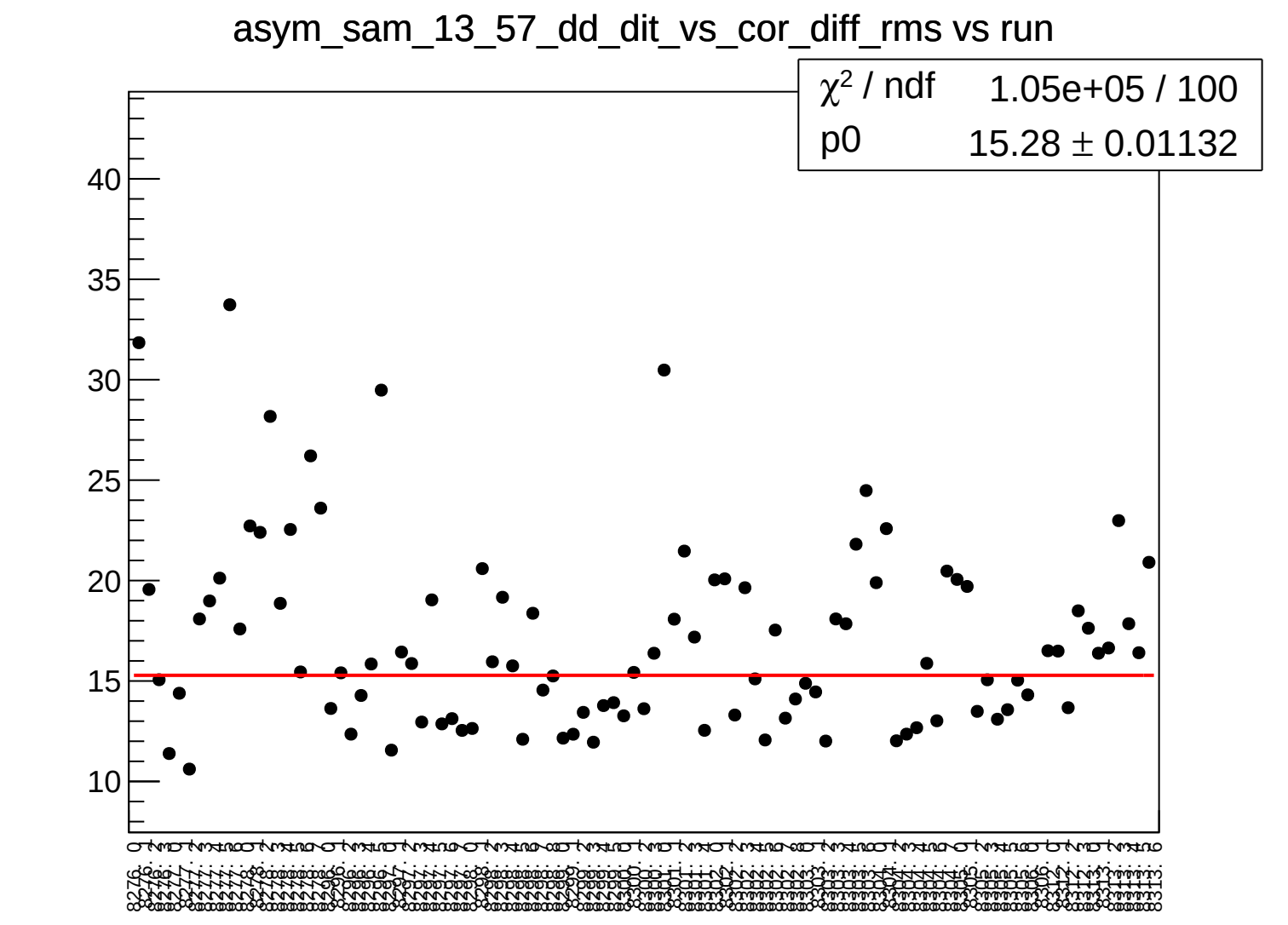

asym_sam_13_57_dd_rms vs run
χ² / ndf 1.248e+04 / 100
p0 634.6 ± 0.4586
800
750
700
650
600
550

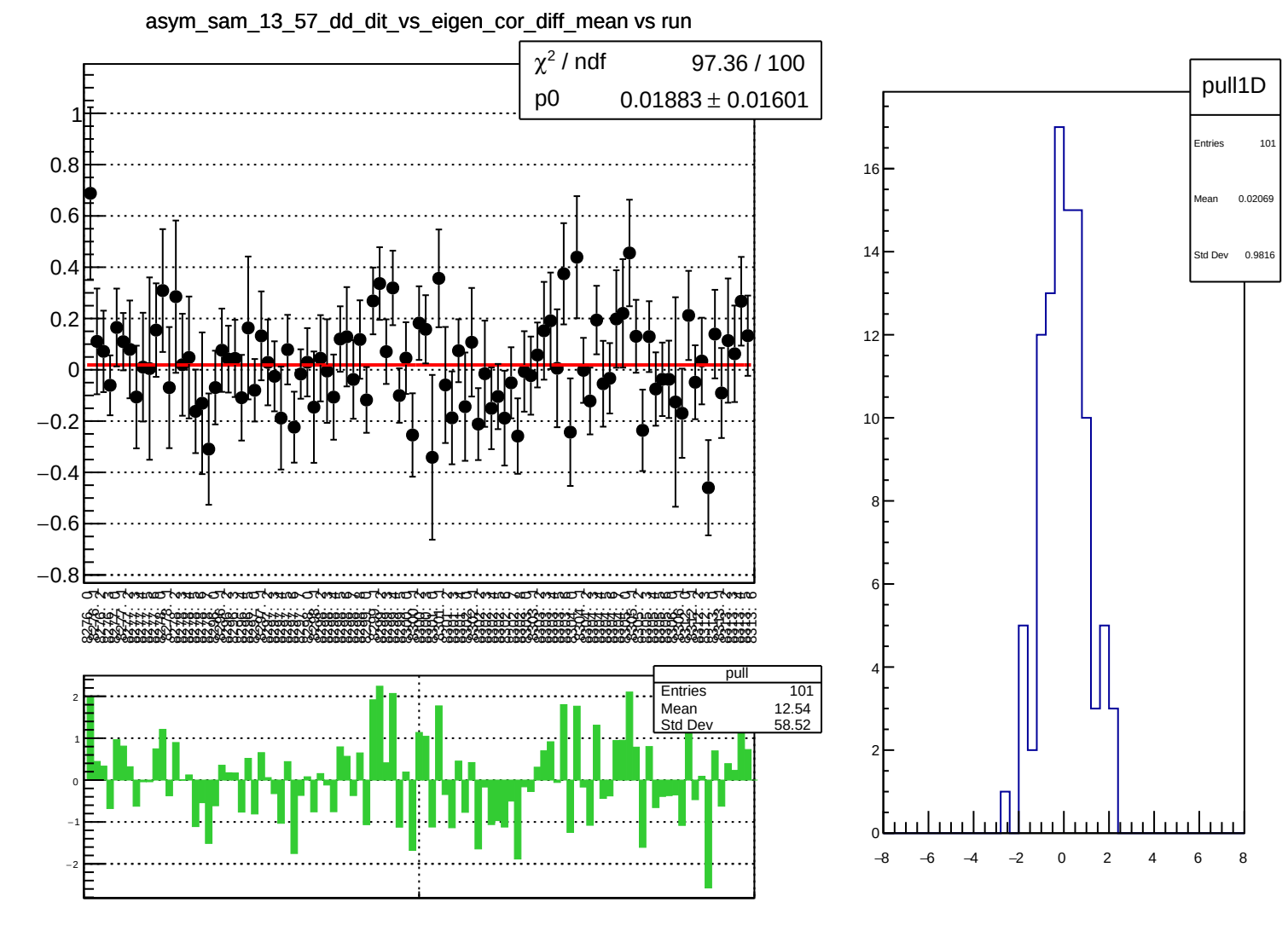

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 128.6 / 100
p0 −8.016e−14 ± 6.215e−14
0.0015
0.001
0.0005
0
−0.0005
pull
Entries 101
Mean 37.95
Std Dev 27.95
2
1
0
−1
−2
−3
−4

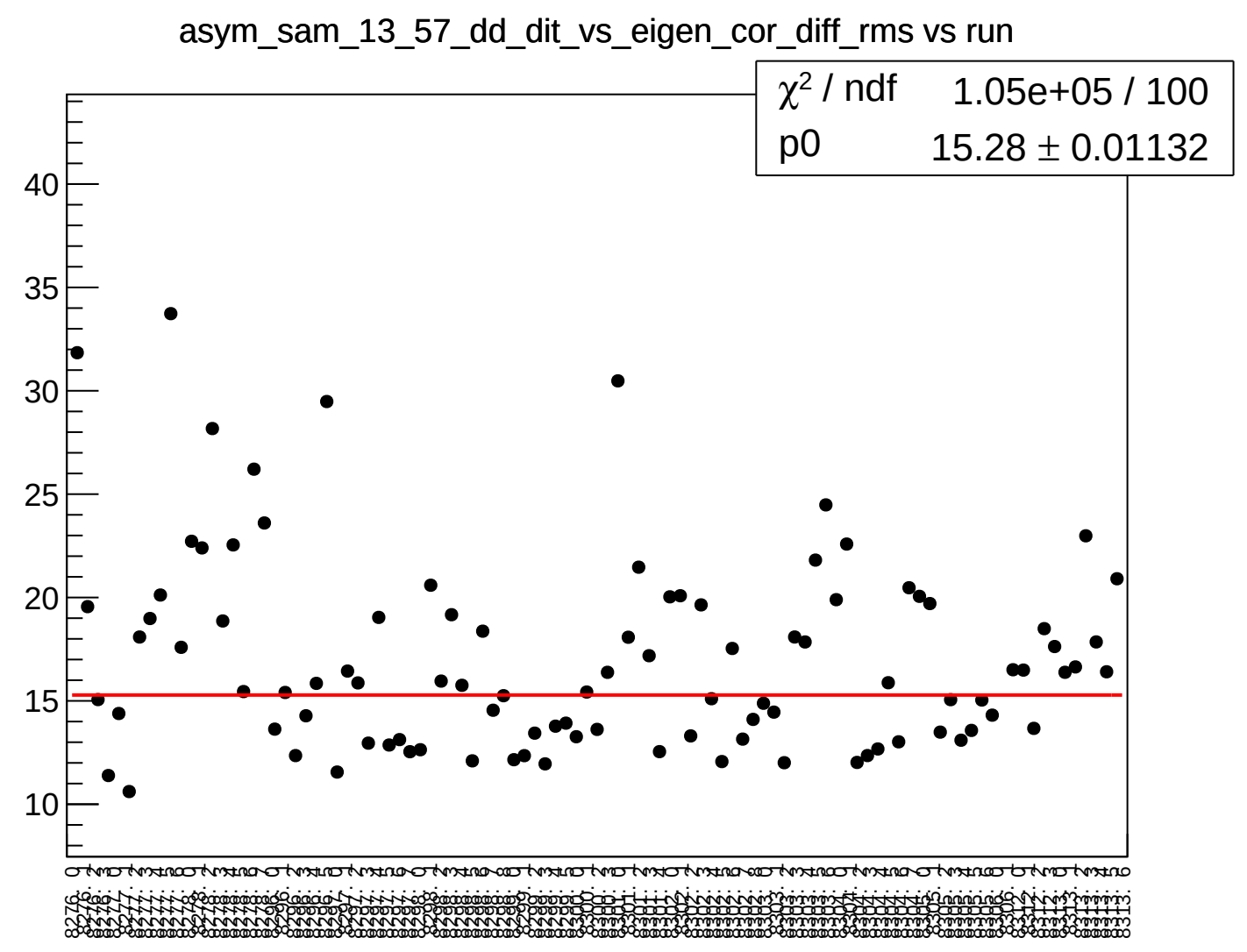

pull1D
Entries 101
Mean −0.1156
Std Dev 1.123
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

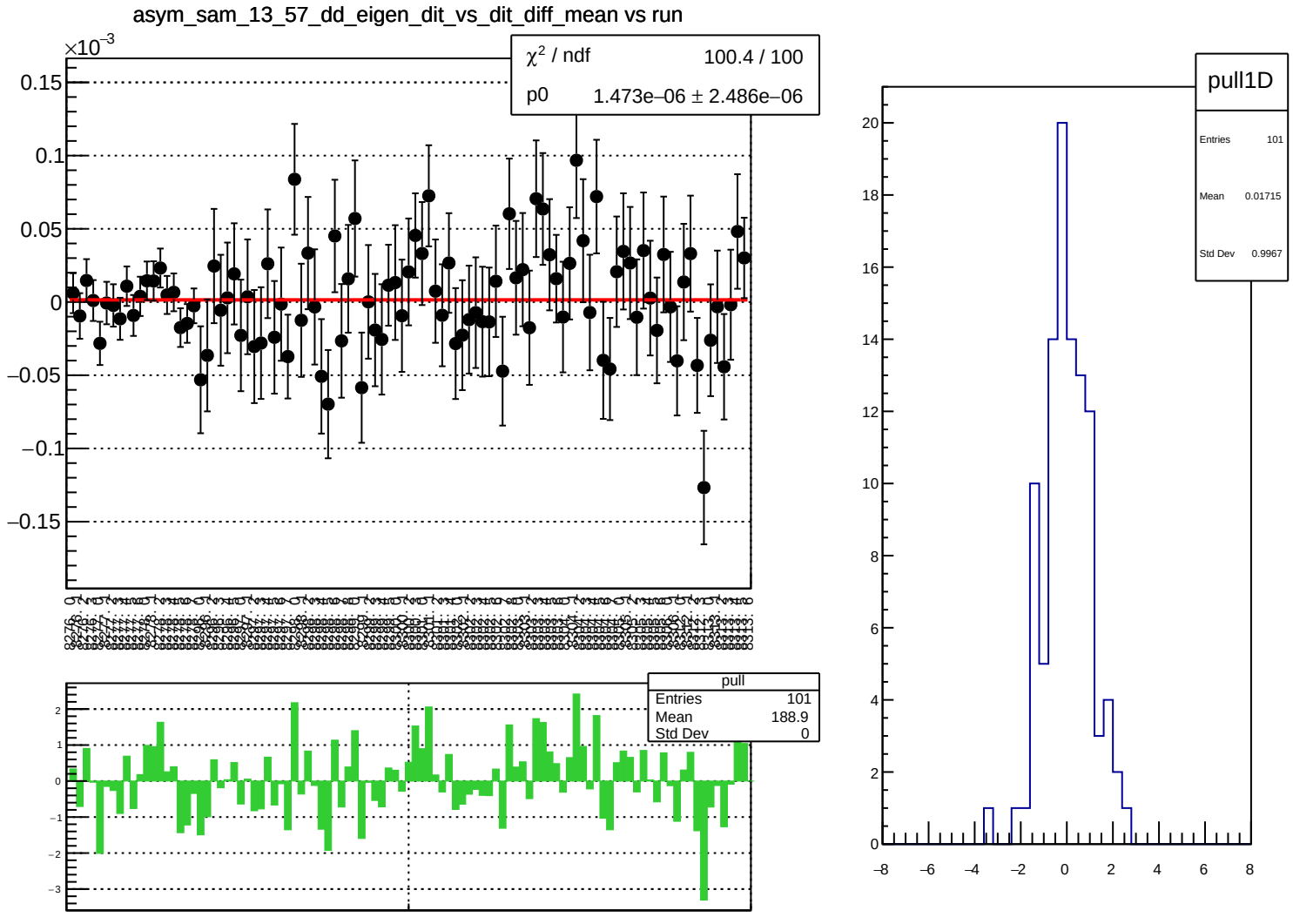

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.579e+05 / 100
p0 4.545e−11 ± 4.395e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

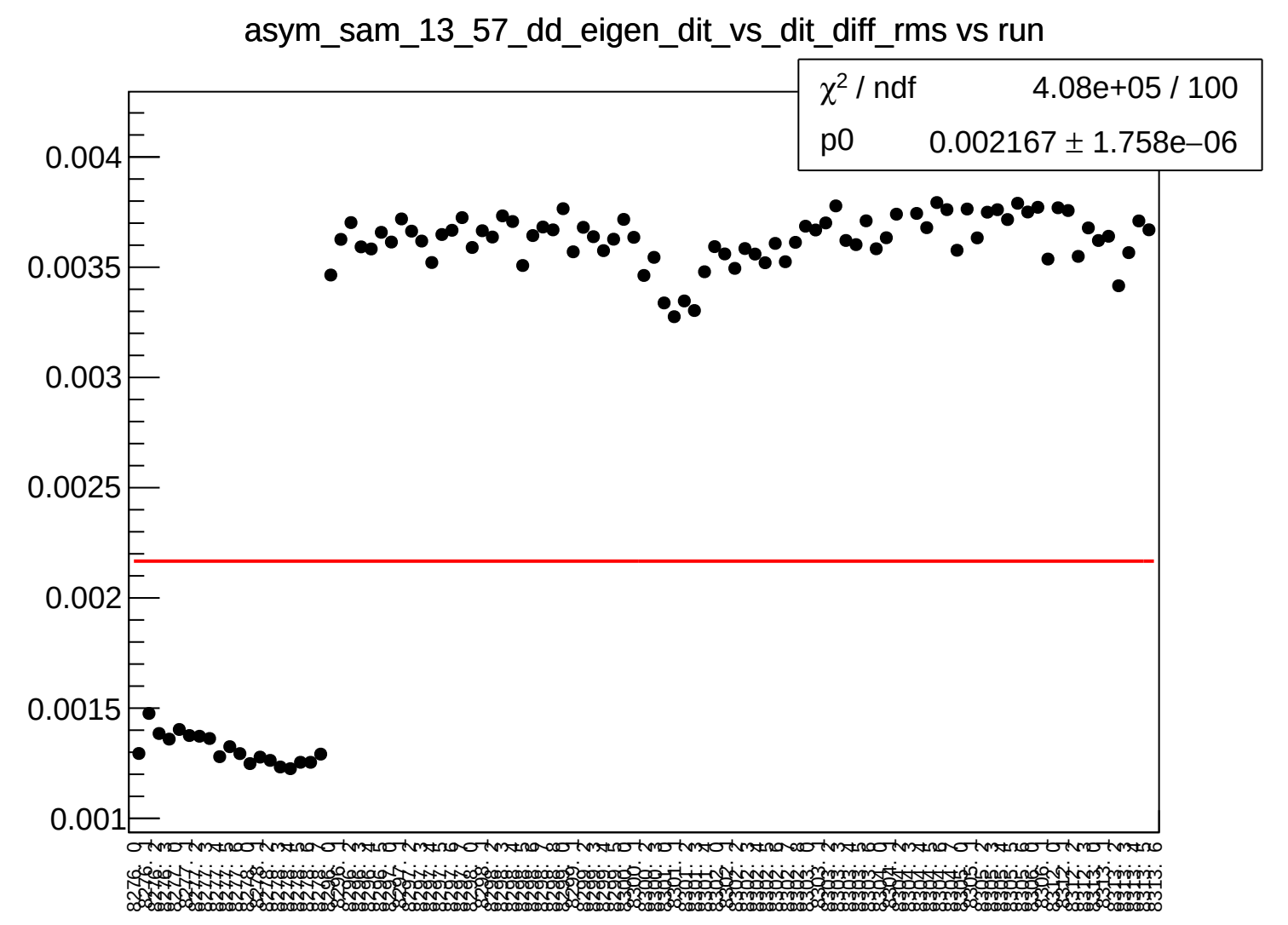

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 97.36 / 100
p0 0.01883 ± 0.01601
pull
Entries 101
Mean 12.54
Std Dev 58.52
pull1D
Entries 101
Mean 0.02069
Std Dev 0.9816

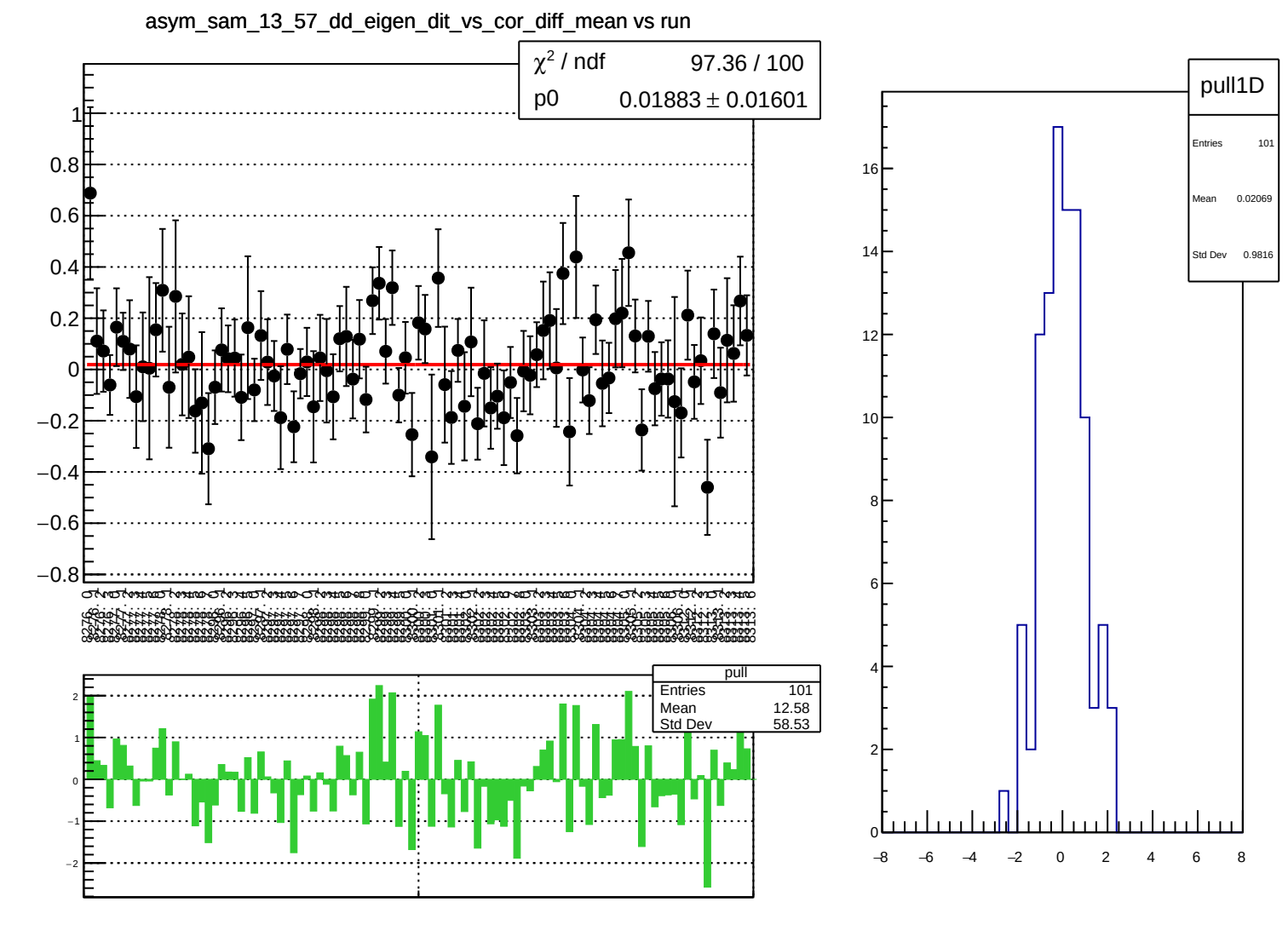

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.05e+05 / 100
p0 15.28 ± 0.01132
40
35
30
25
20
15
10

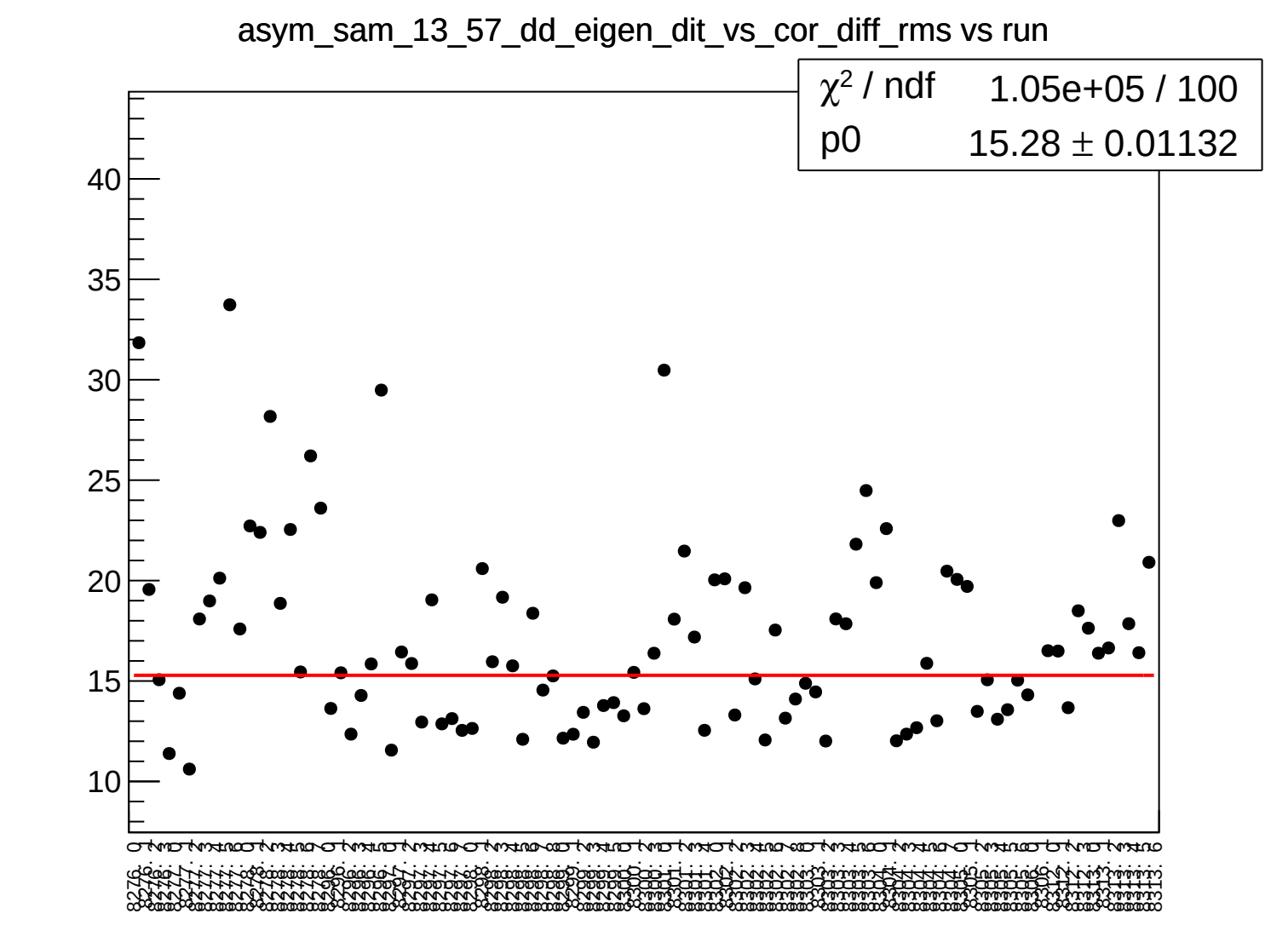

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.36 / 100
p0 0.01883 ± 0.01601
pull
Entries 101
Mean 12.54
Std Dev 58.52
pull1D
Entries 101
Mean 0.02069
Std Dev 0.9816

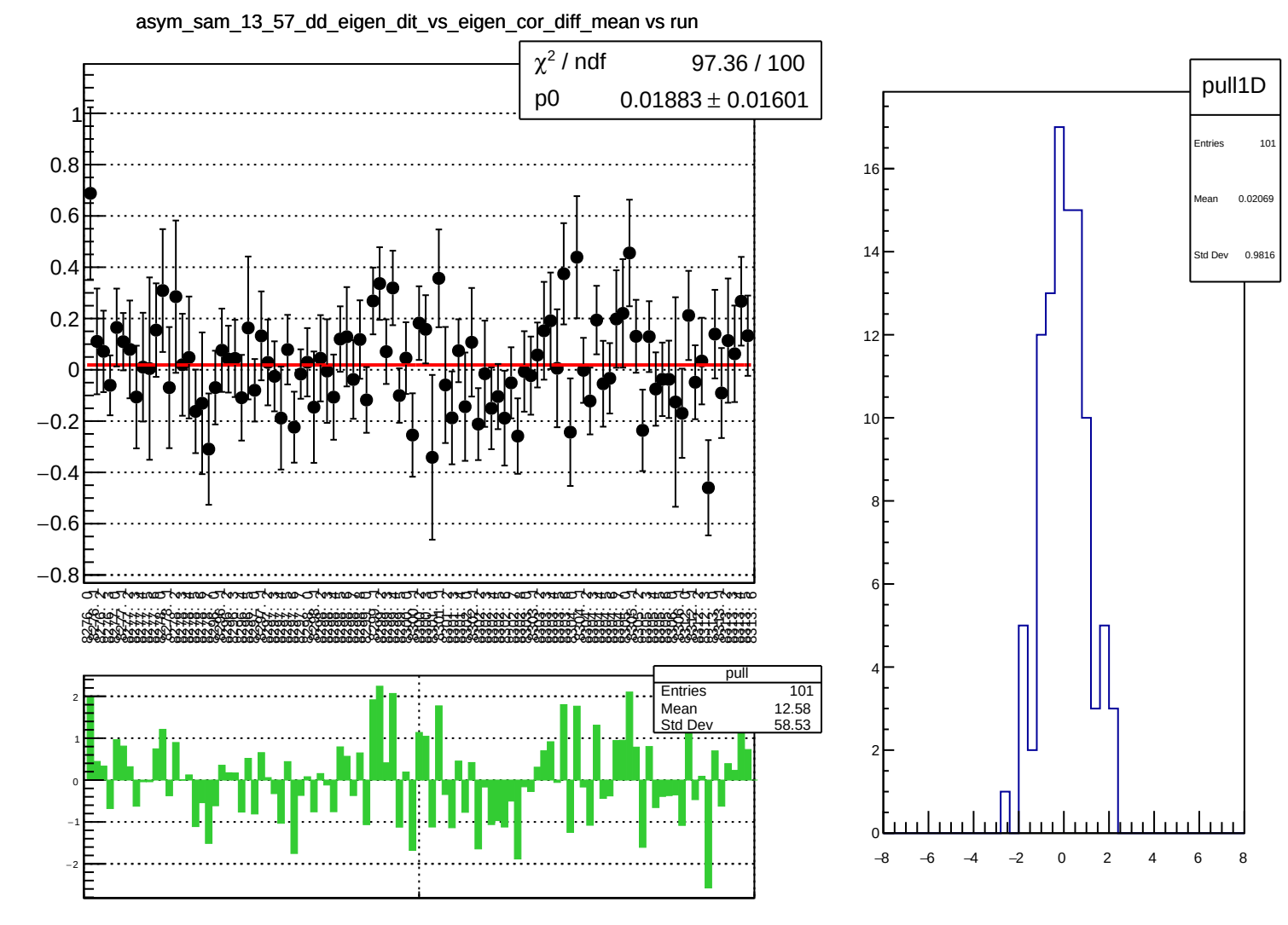

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.05e+05 / 100
p0 15.28 ± 0.01132
40
35
30
25
20
15
10

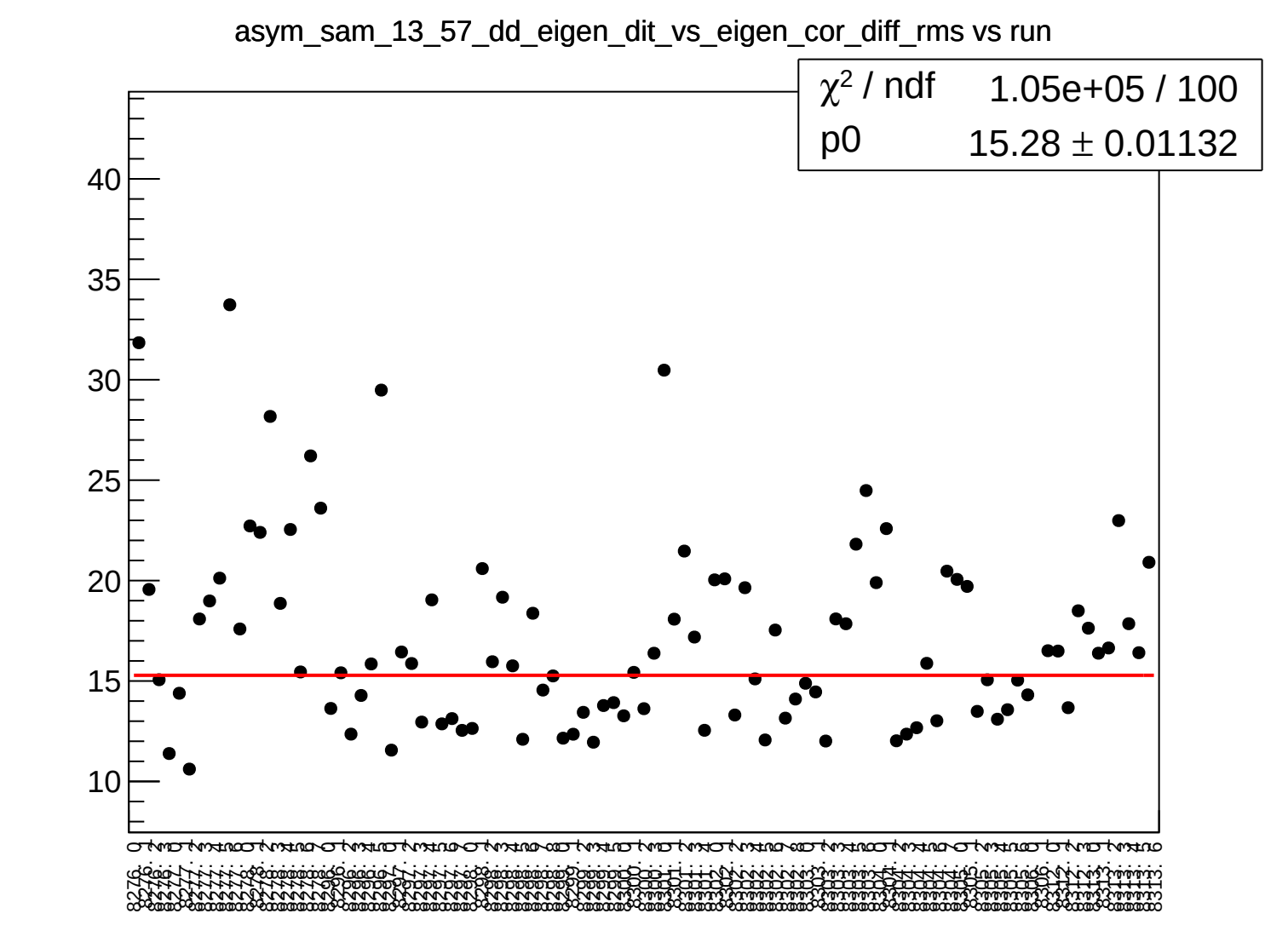

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.4 / 100
p0 1.473e−06 ± 2.486e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 101
Mean 188.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.01715
Std Dev 0.9967
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

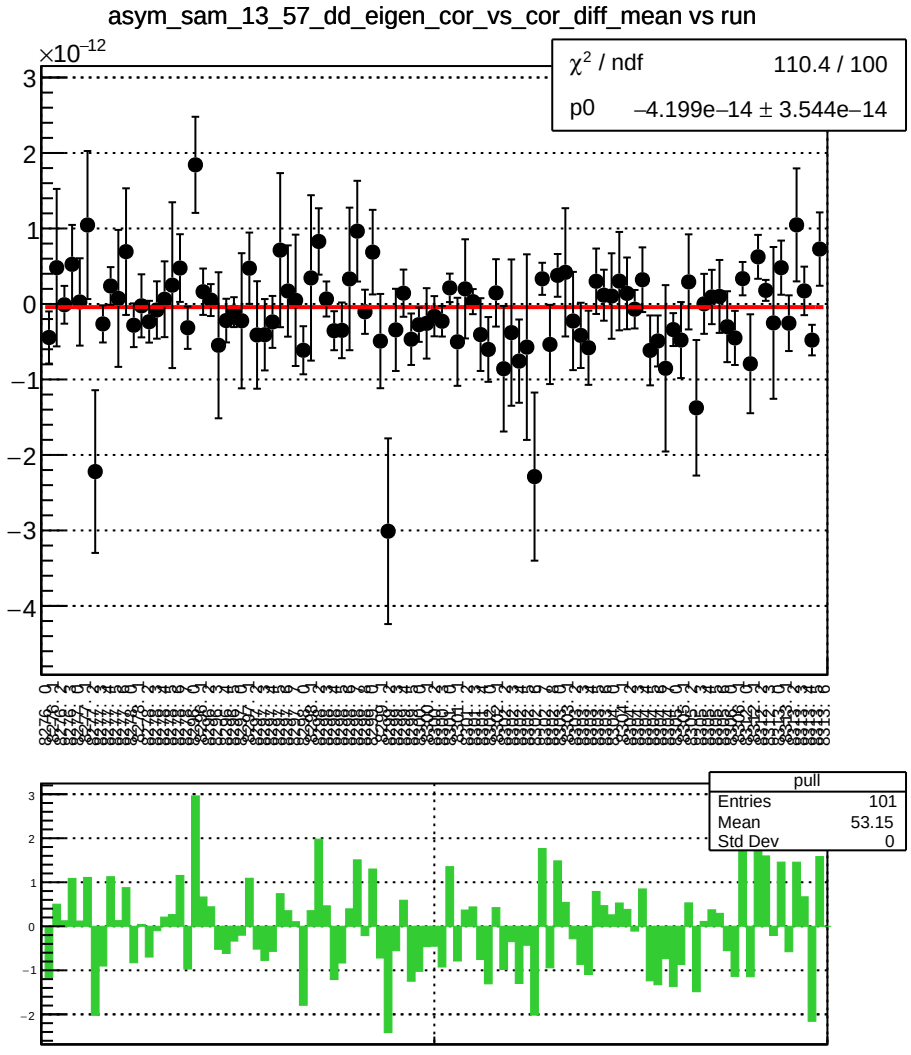

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.08e+05 / 100
p0 0.002167 ± 1.758e−06
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

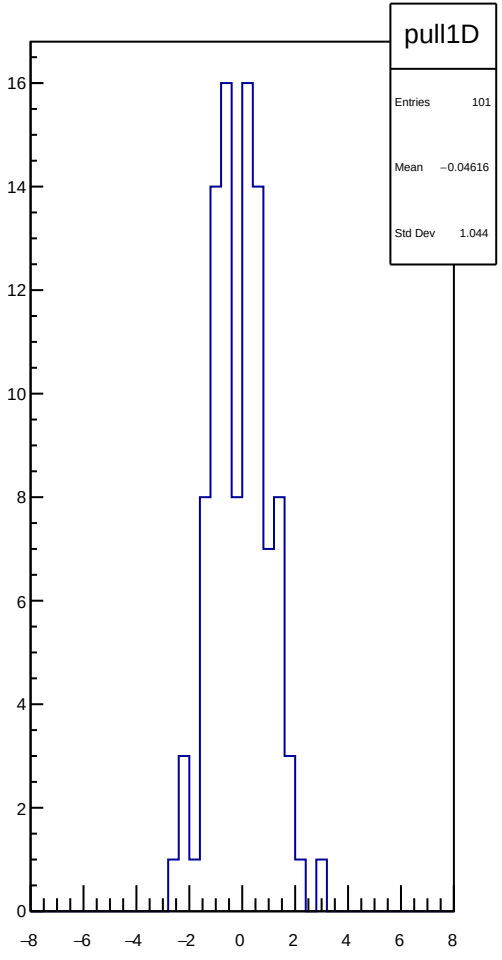

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.36 / 100
p0 0.01883 ± 0.01601
pull
Entries 101
Mean 12.58
Std Dev 58.53
pull1D
Entries 101
Mean 0.02069
Std Dev 0.9816

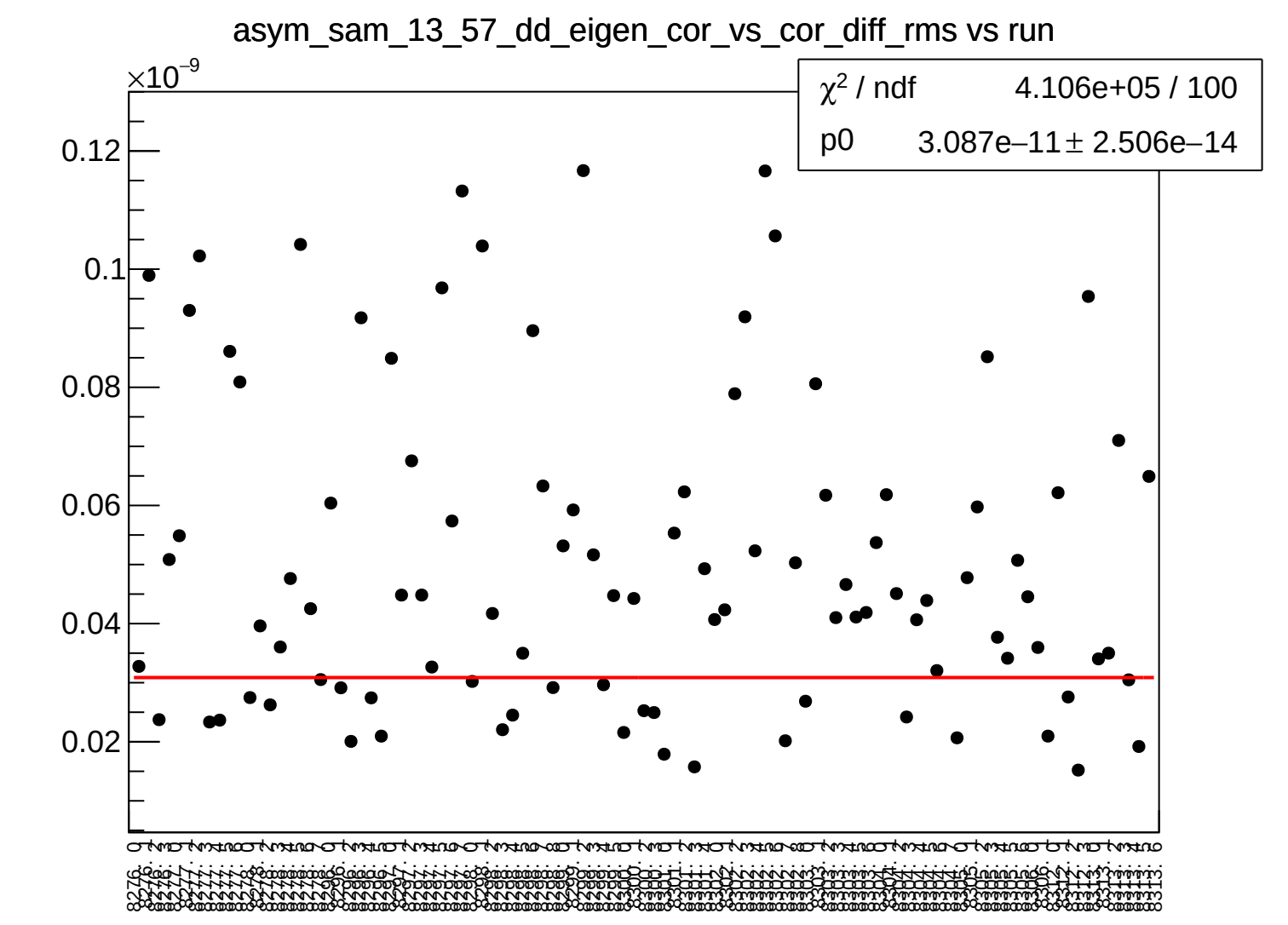

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.05e+05 / 100
p0 15.28 ± 0.01132
40
35
30
25
20
15
10

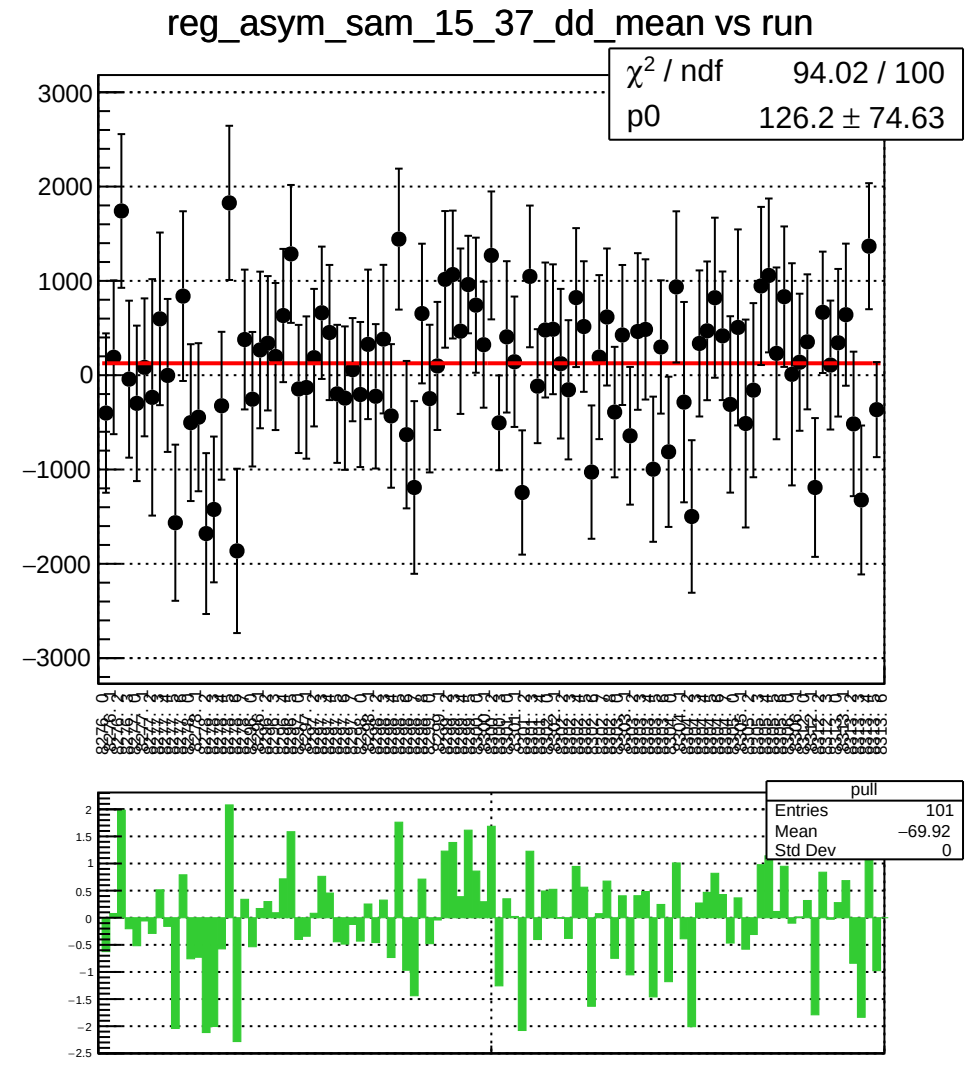

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.36 / 100
p0 0.01883 ± 0.01601
pull
Entries 101
Mean 12.58
Std Dev 58.53
pull1D
Entries 101
Mean 0.02069
Std Dev 0.9816

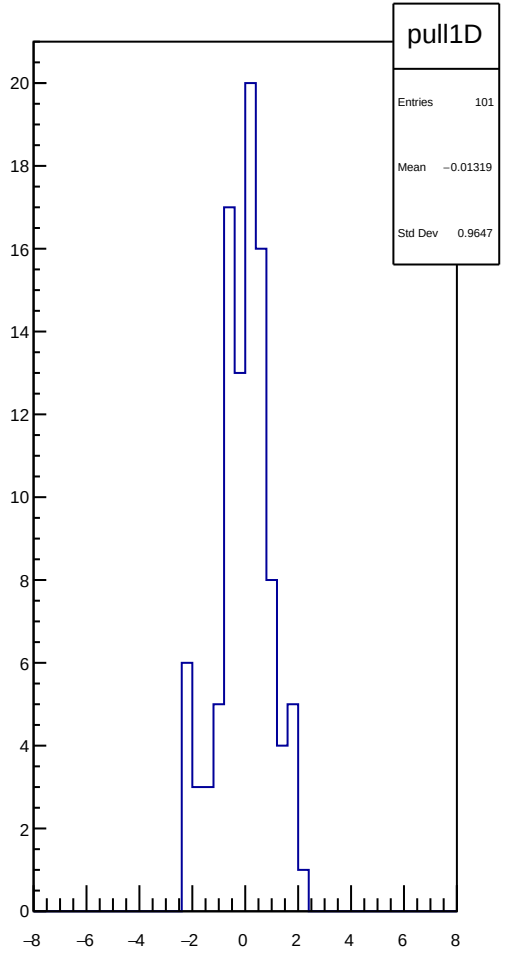

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.05e+05 / 100
p0 15.28 ± 0.01132
40
35
30
25
20
15
10

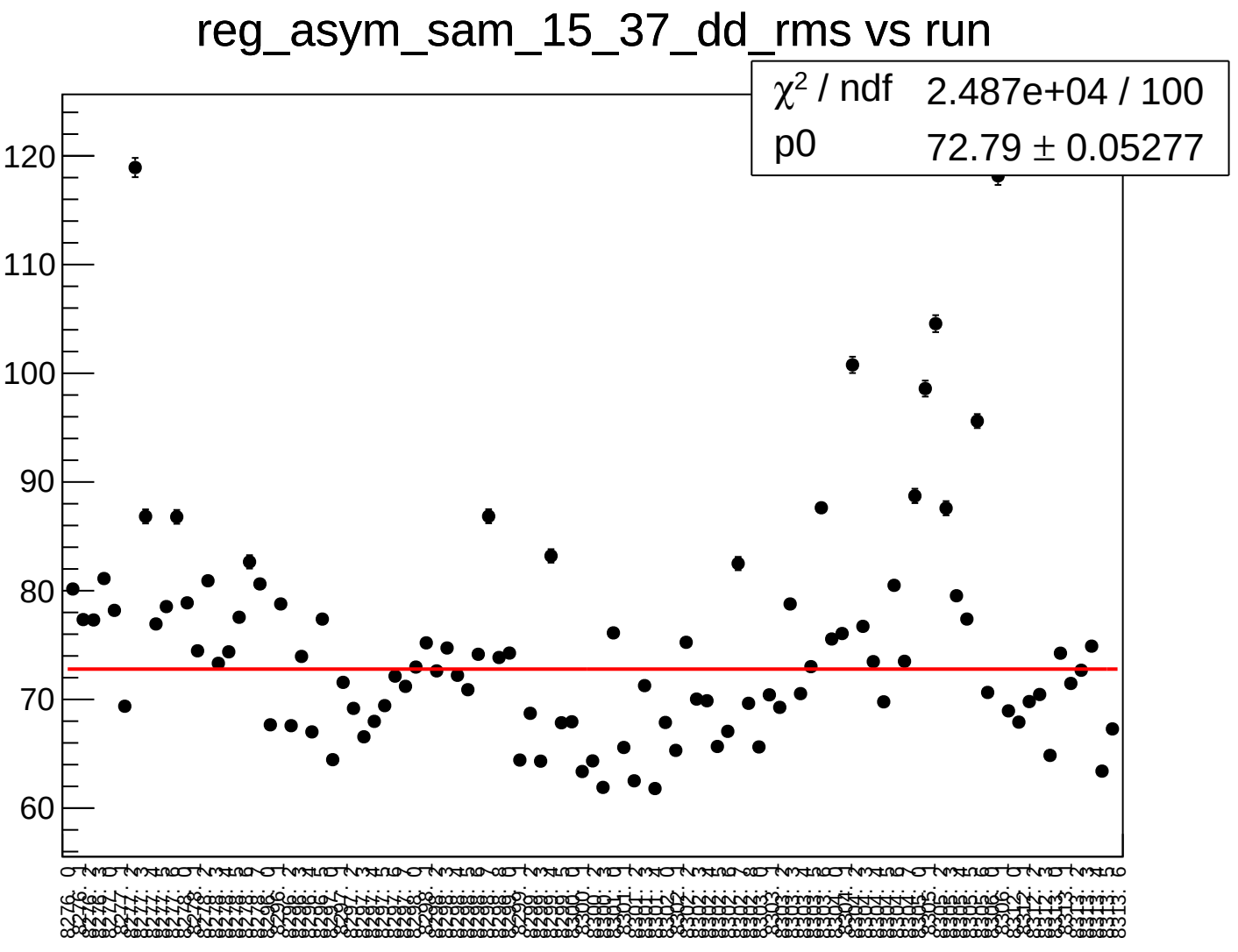

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 110.4 / 100
p0 −4.199e−14 ± 3.544e−14
pull
Entries 101
Mean 53.15
Std Dev 0

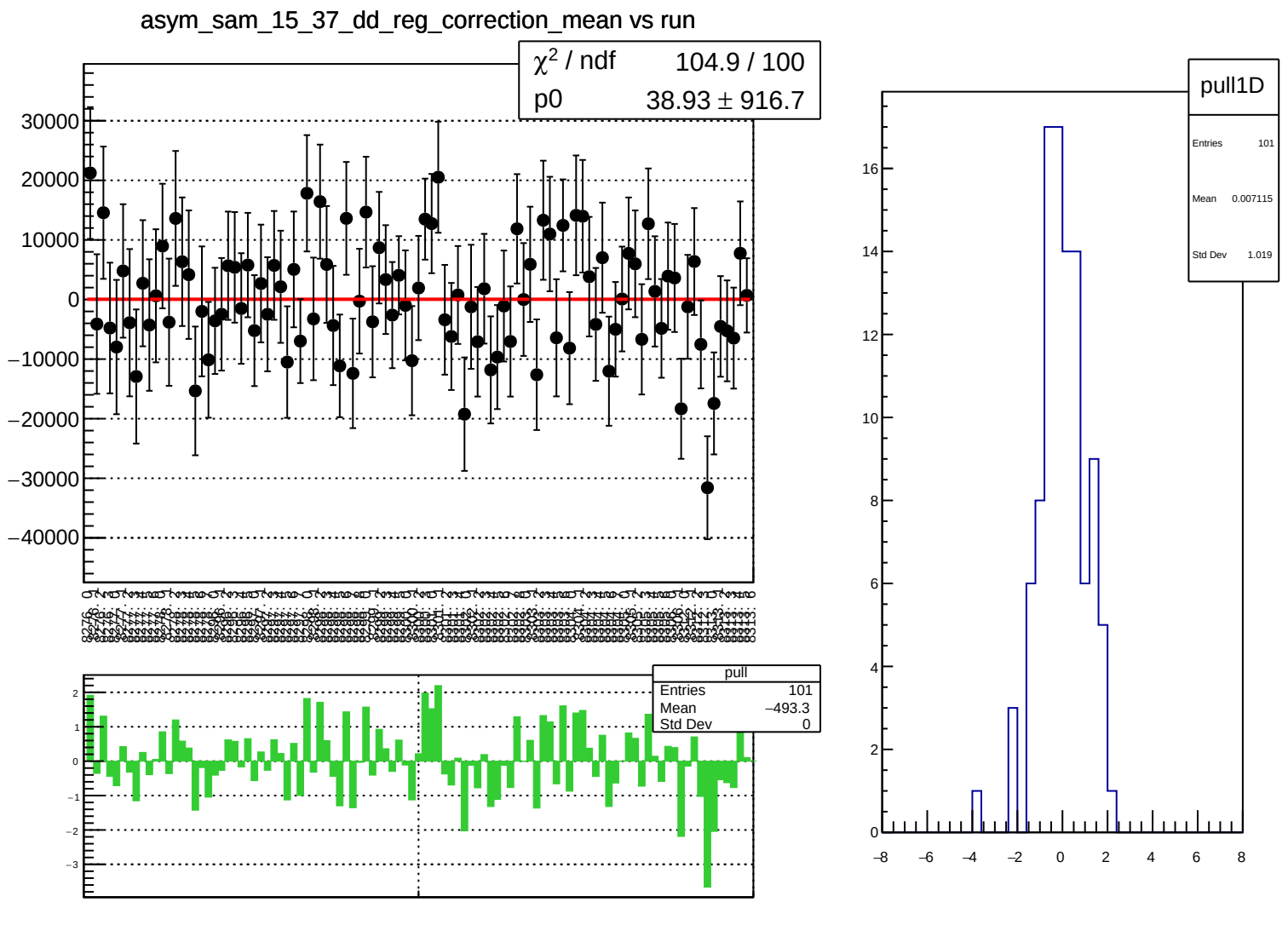

pull1D
Entries 101
Mean −0.04616
Std Dev 1.044

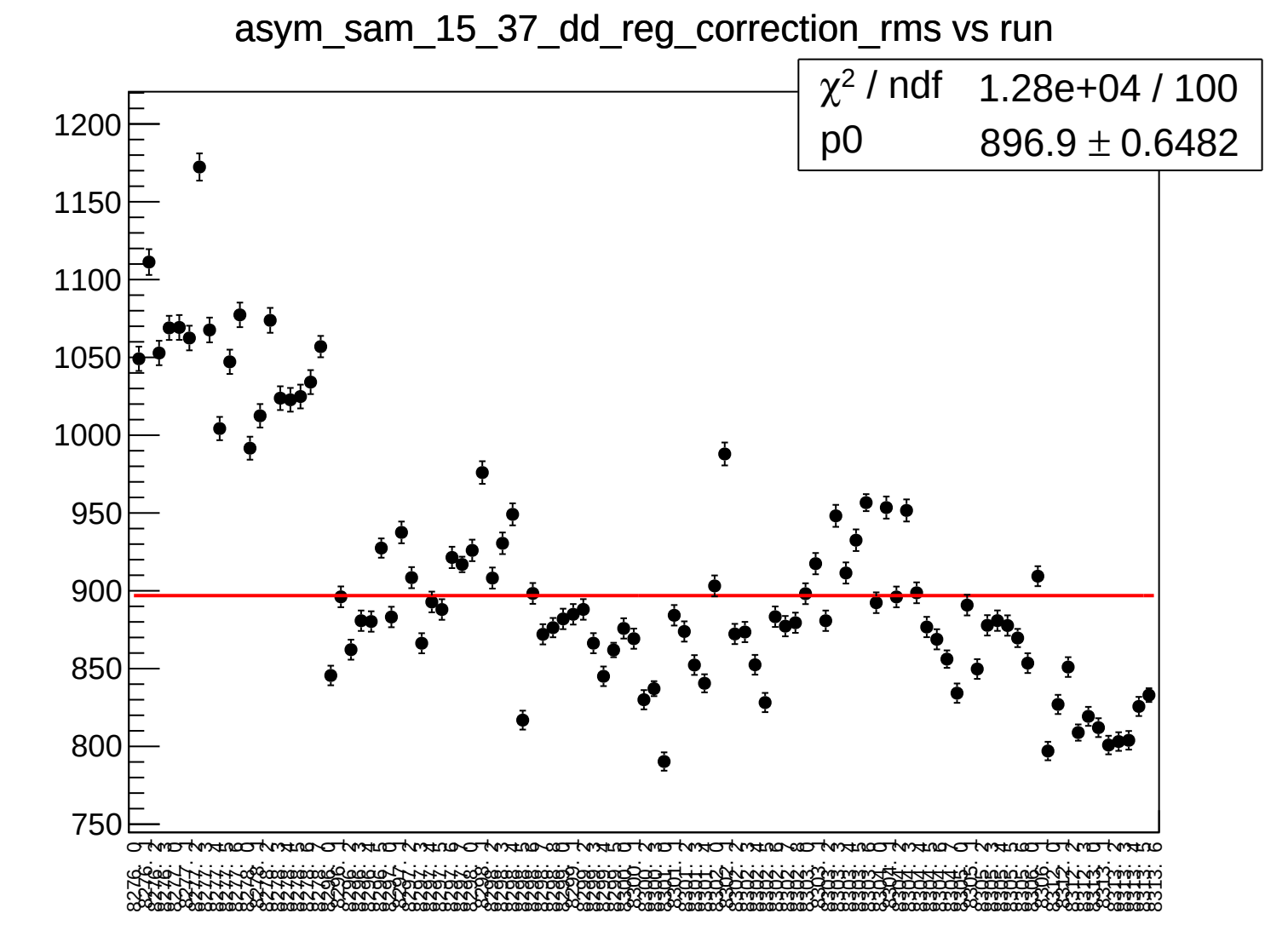

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.106e+05 / 100
p0 3.087e−11 ± 2.506e−14
0.12
0.1
0.08
0.06
0.04
0.02

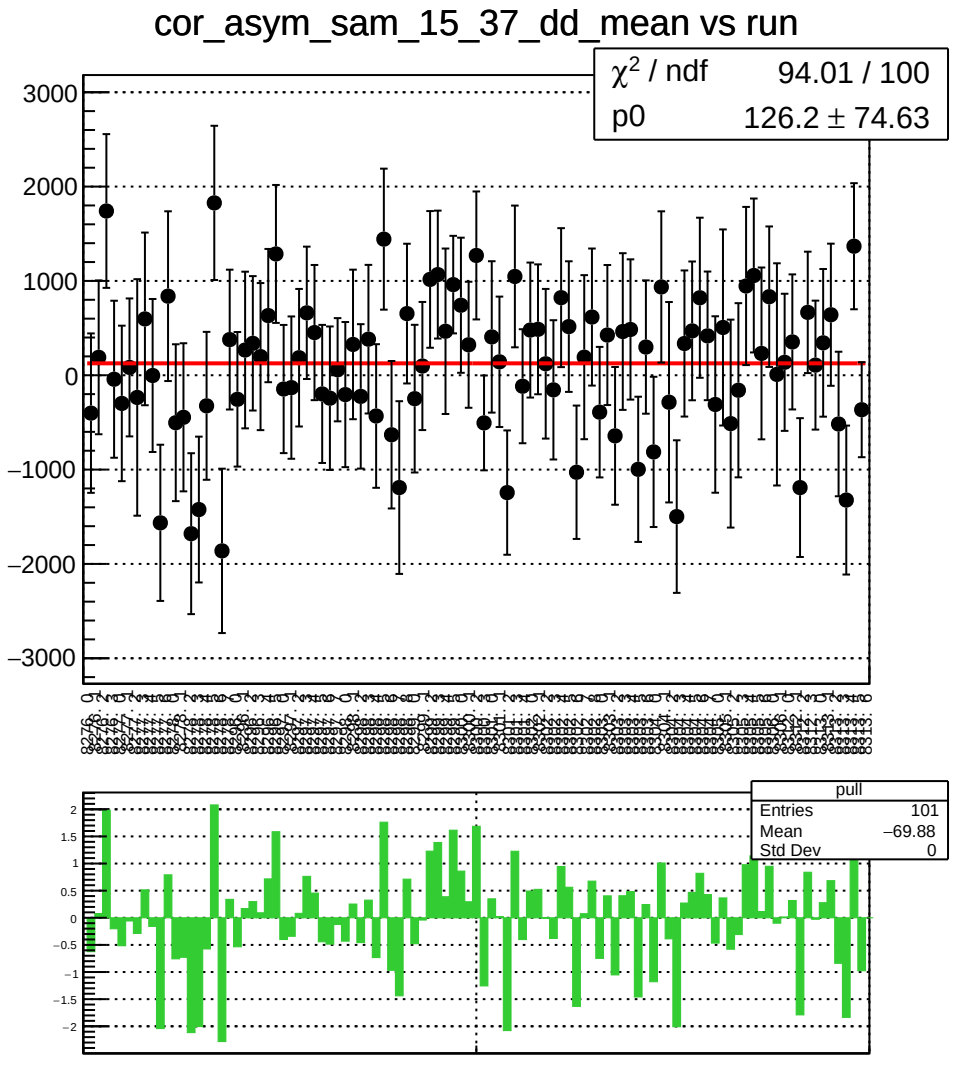

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 94.02 / 100
p0 126.2 ± 74.63
pull
Entries 101
Mean −69.92
Std Dev 0

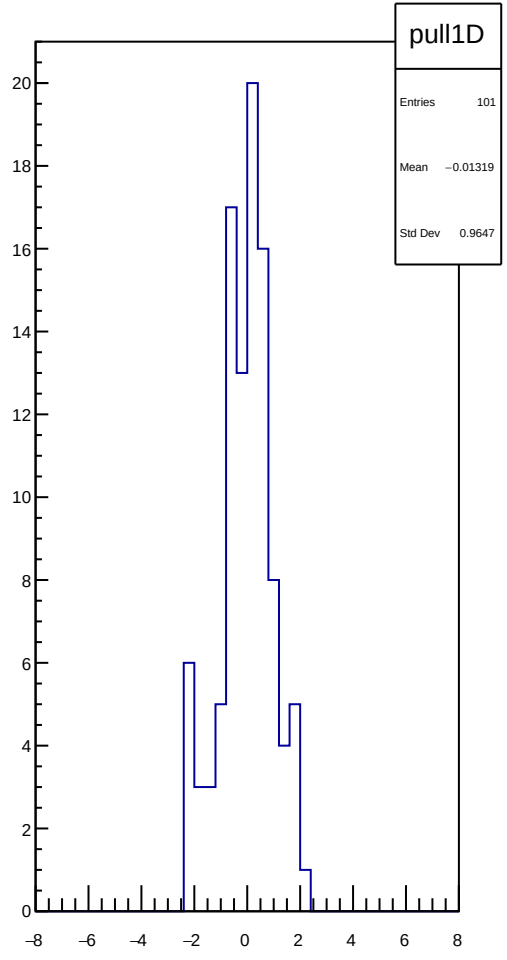

pull1D
Entries 101
Mean −0.01319
Std Dev 0.9647

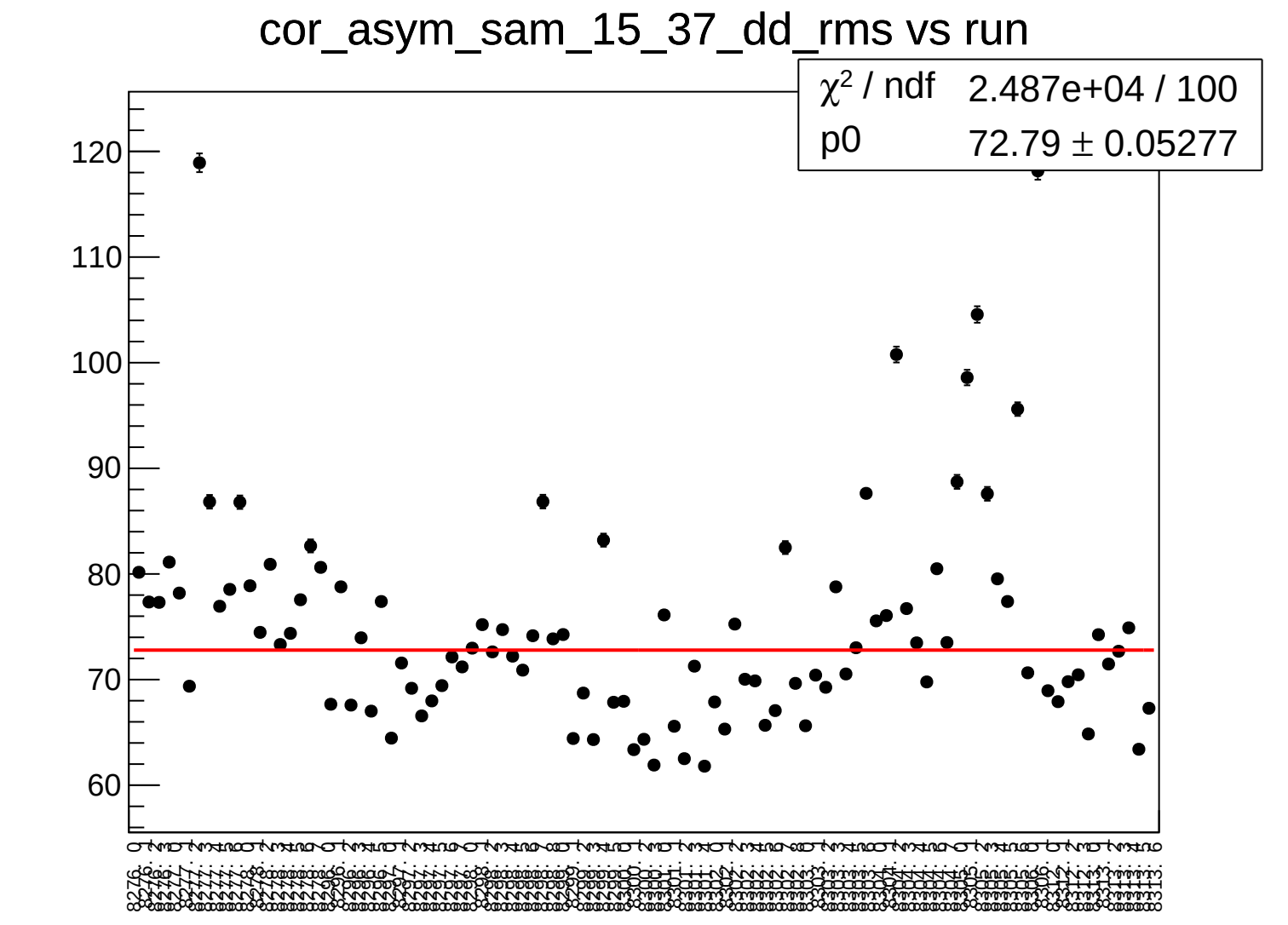

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.487e+04 / 100
p0 72.79 ± 0.05277
120
110
100
90
80
70
60

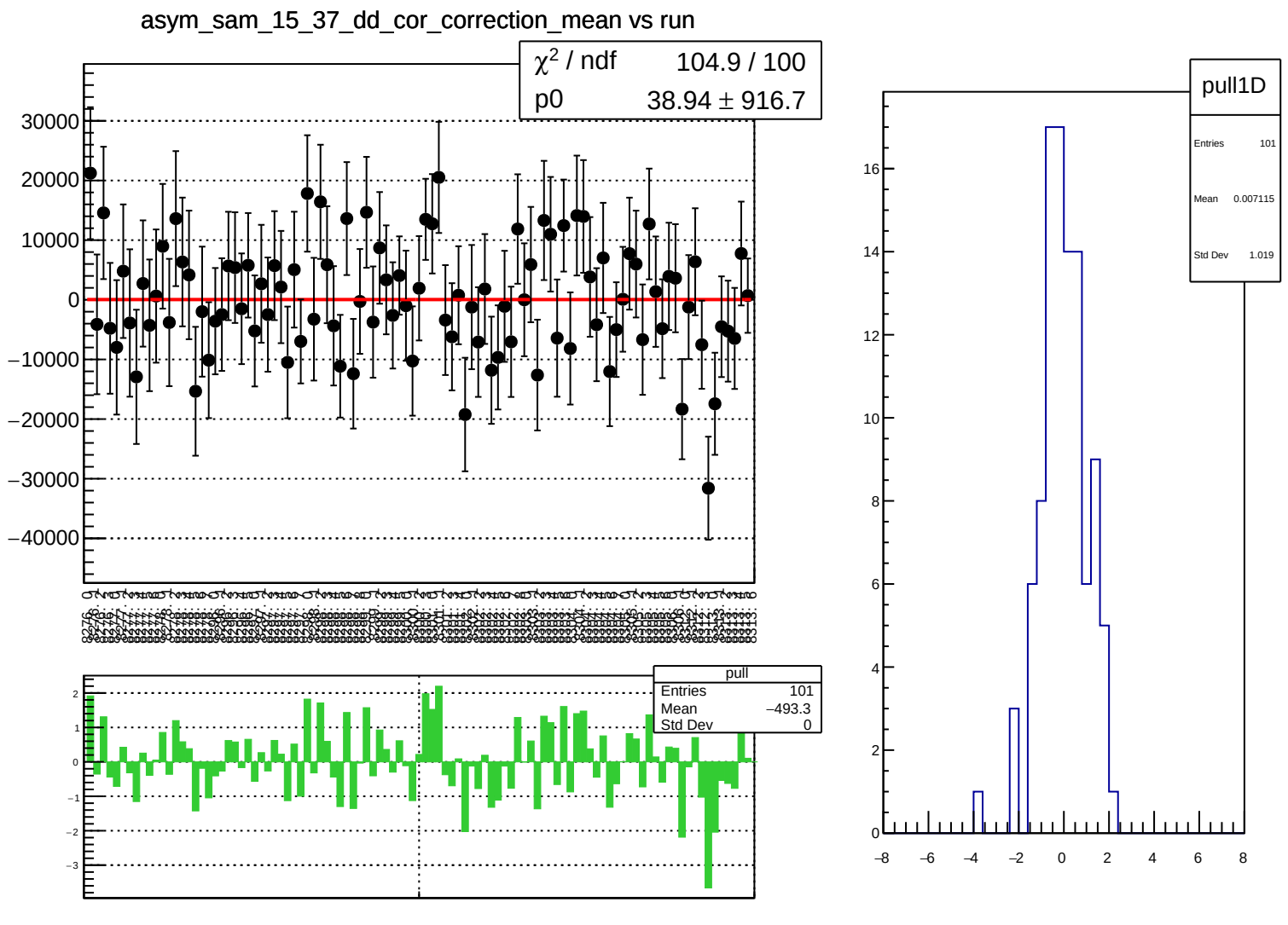

asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 104.9 / 100
p0 38.93 ± 916.7
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 101
Mean −493.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.007115
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

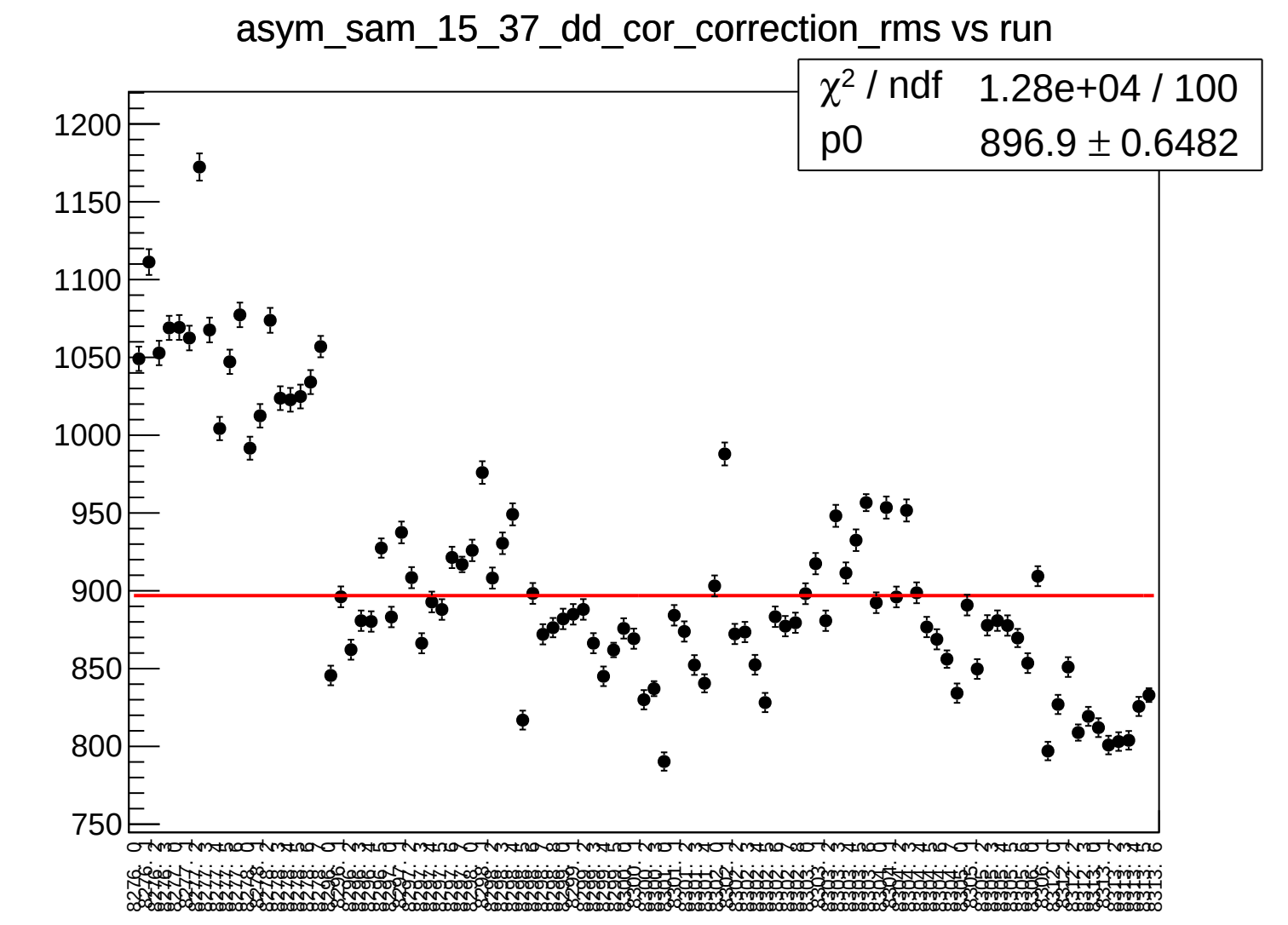

asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 1.28e+04 / 100
p0 896.9 ± 0.6482
1200
1150
1100
1050
1000
950
900
850
800
750

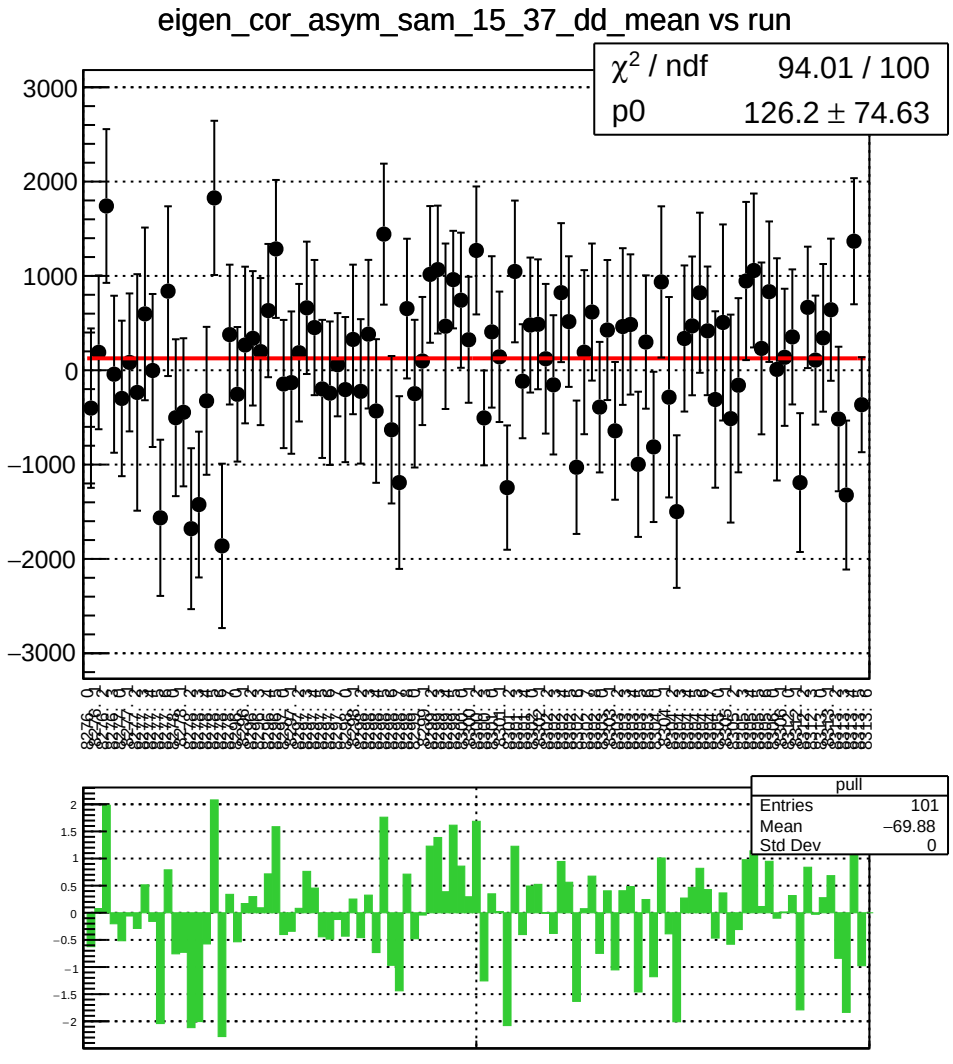

cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 94.01 / 100
p0 126.2 ± 74.63
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 101
Mean −69.88
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

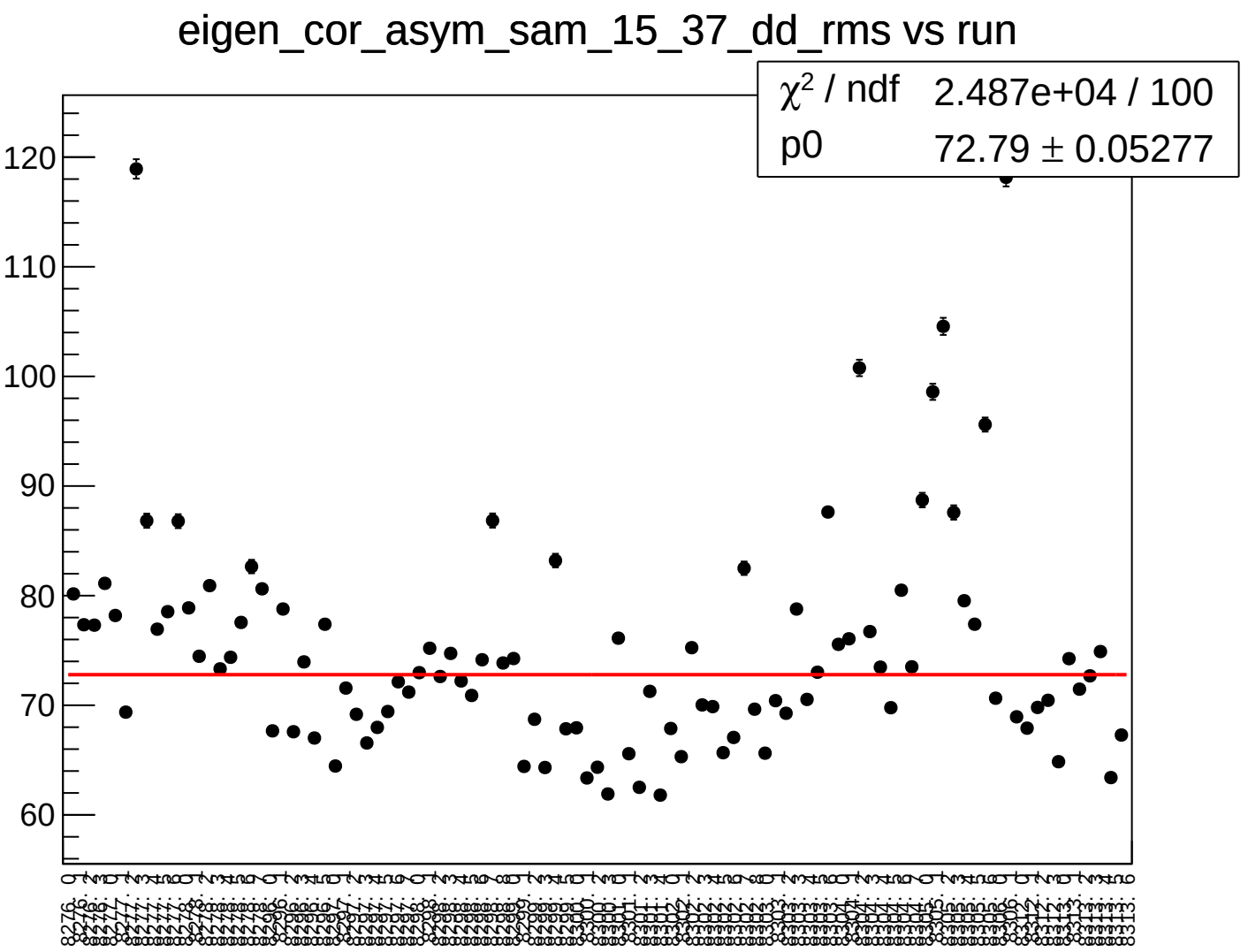

pull1D
Entries 101
Mean −0.01319
Std Dev 0.9647
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

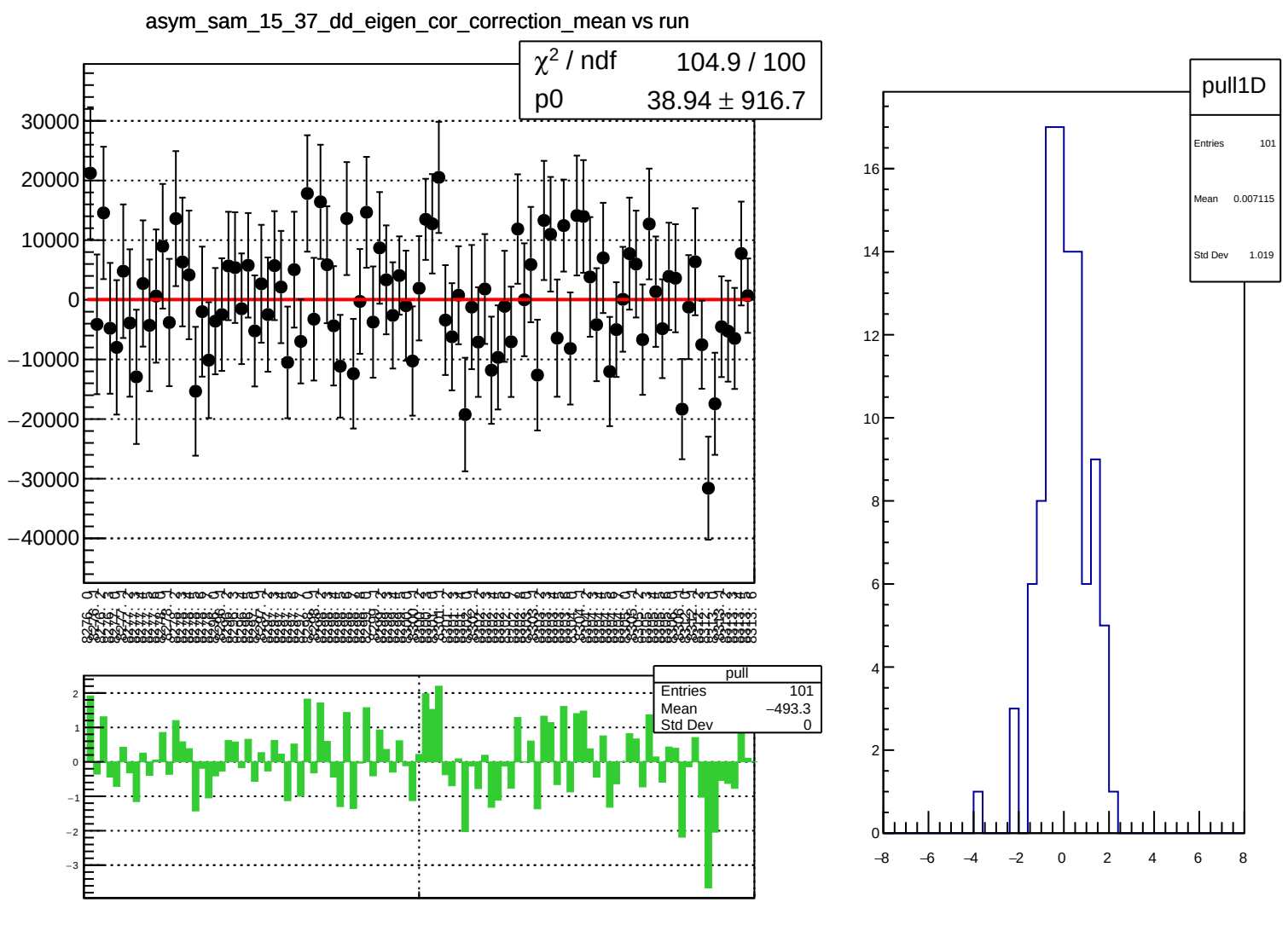

cor_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 2.487e+04 / 100
p0 72.79 ± 0.05277
120
110
100
90
80
70
60

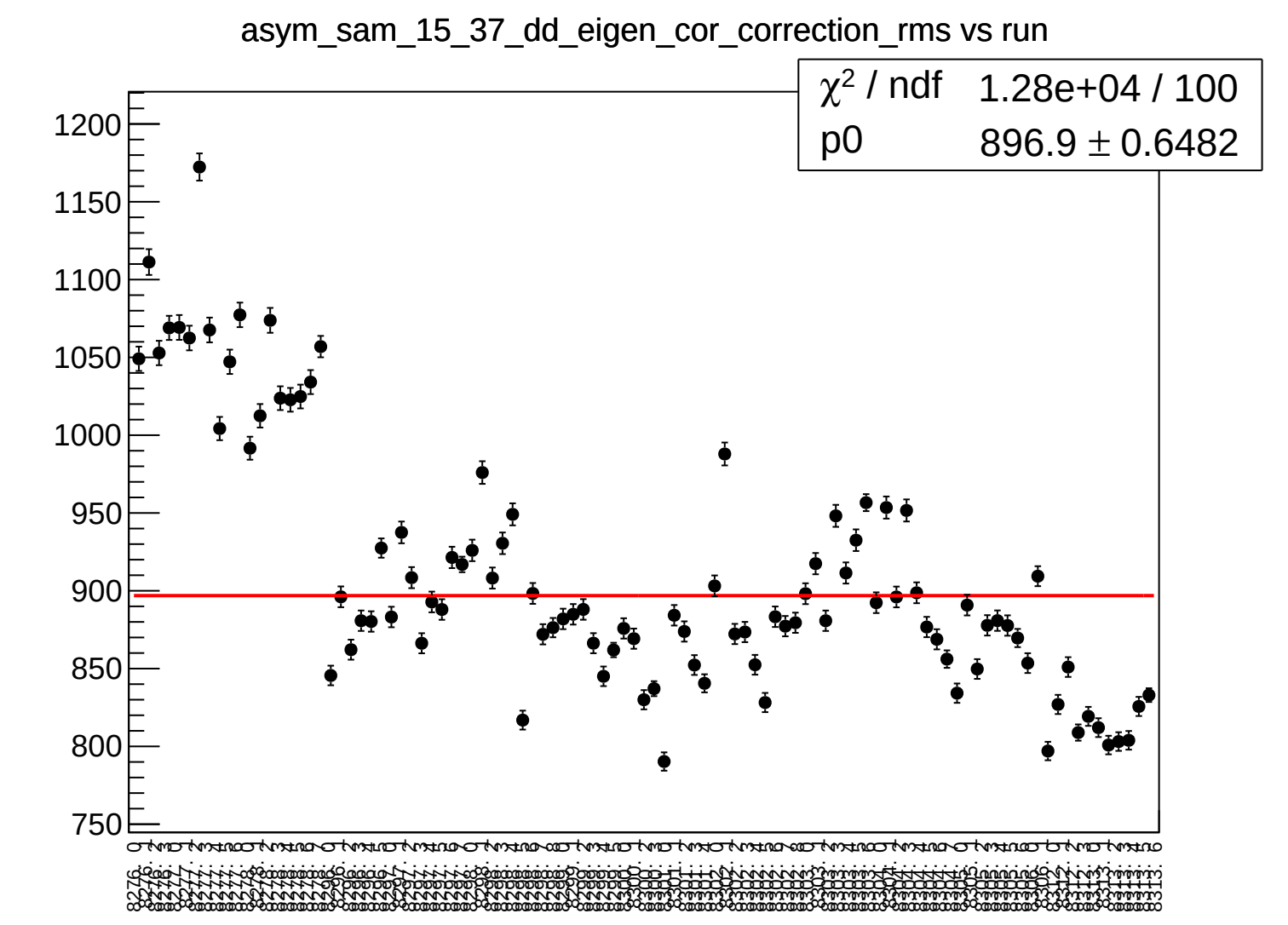

asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 104.9 / 100
p0 38.94 ± 916.7
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 101
Mean −493.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.007115
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

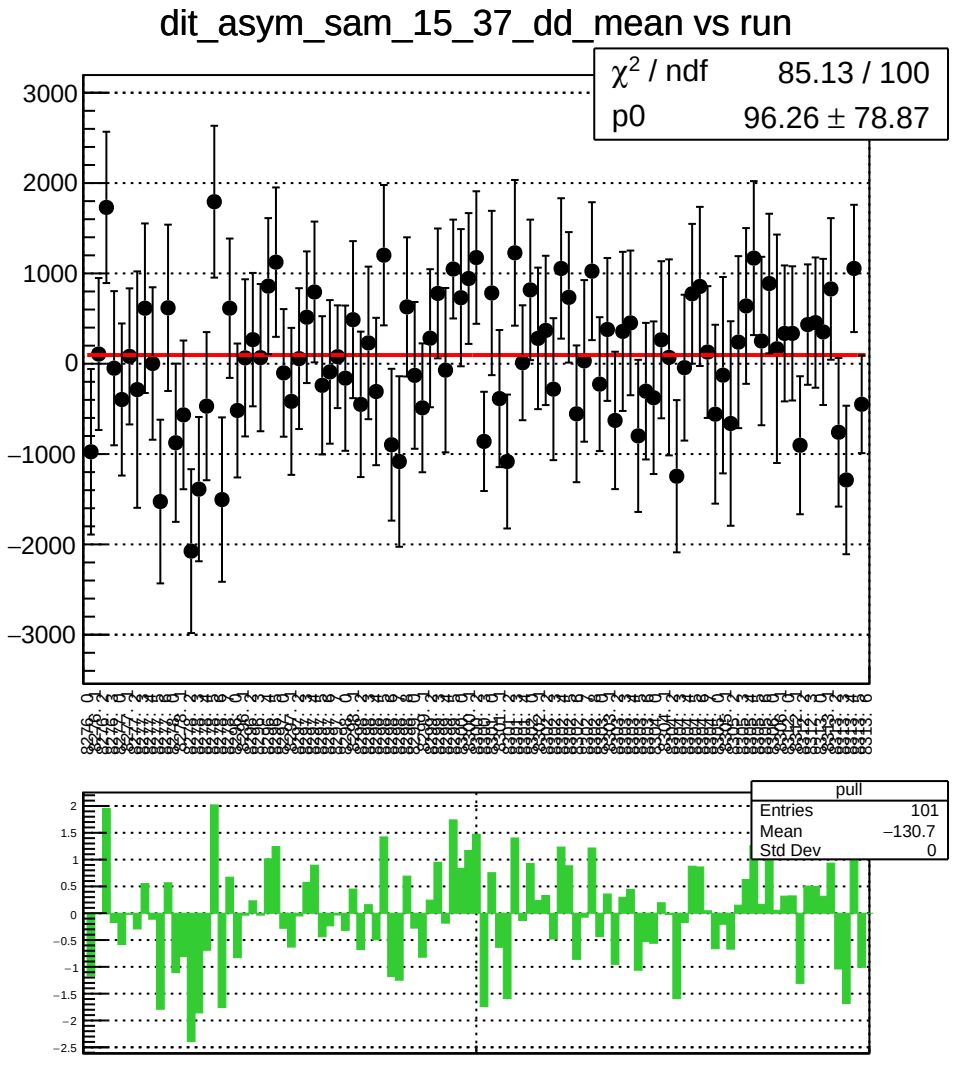

asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 1.28e+04 / 100
p0 896.9 ± 0.6482
1200
1150
1100
1050
1000
950
900
850
800
750

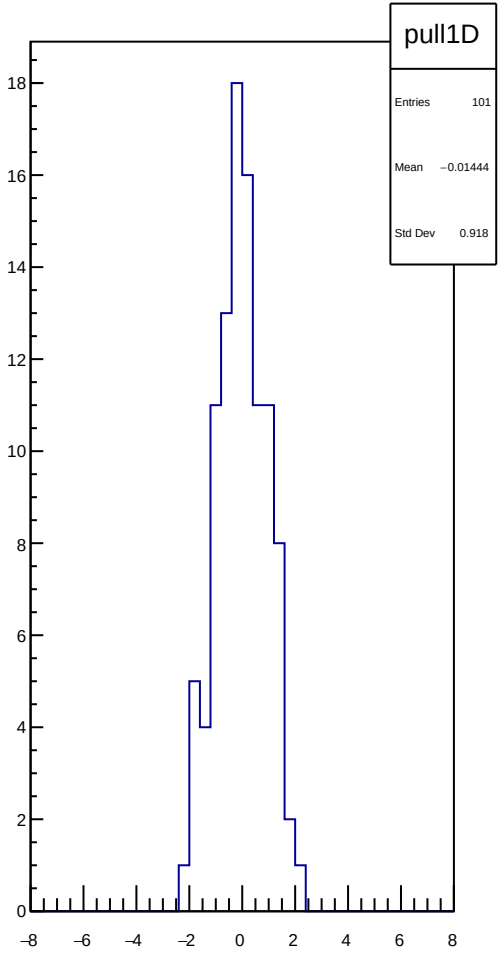

eigen_cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 94.01 / 100
p0 126.2 ± 74.63
pull
Entries 101
Mean −69.88
Std Dev 0
pull1D
Entries 101
Mean −0.01319
Std Dev 0.9647

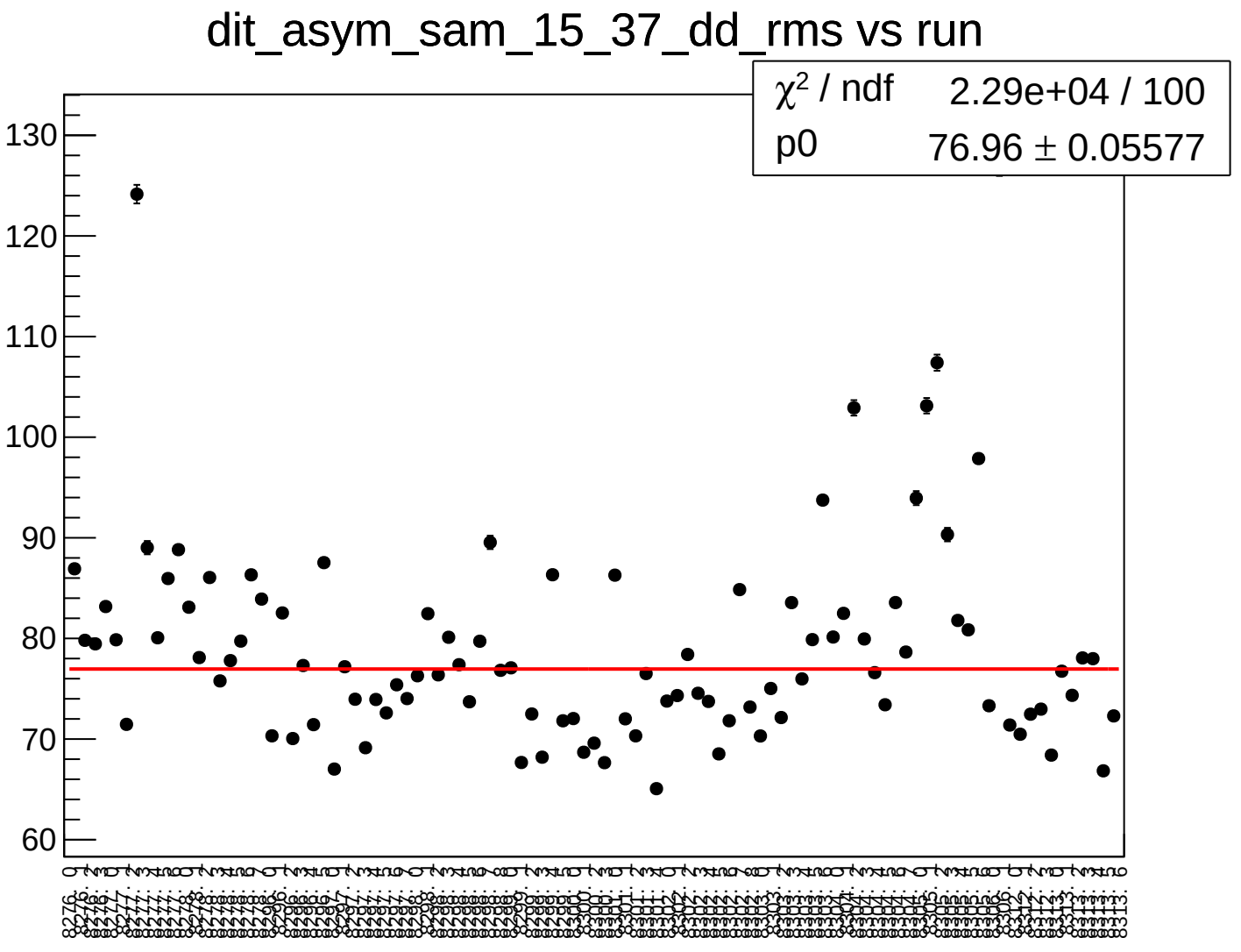

eigen_cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.487e+04 / 100
p0 72.79 ± 0.05277
120
110
100
90
80
70
60

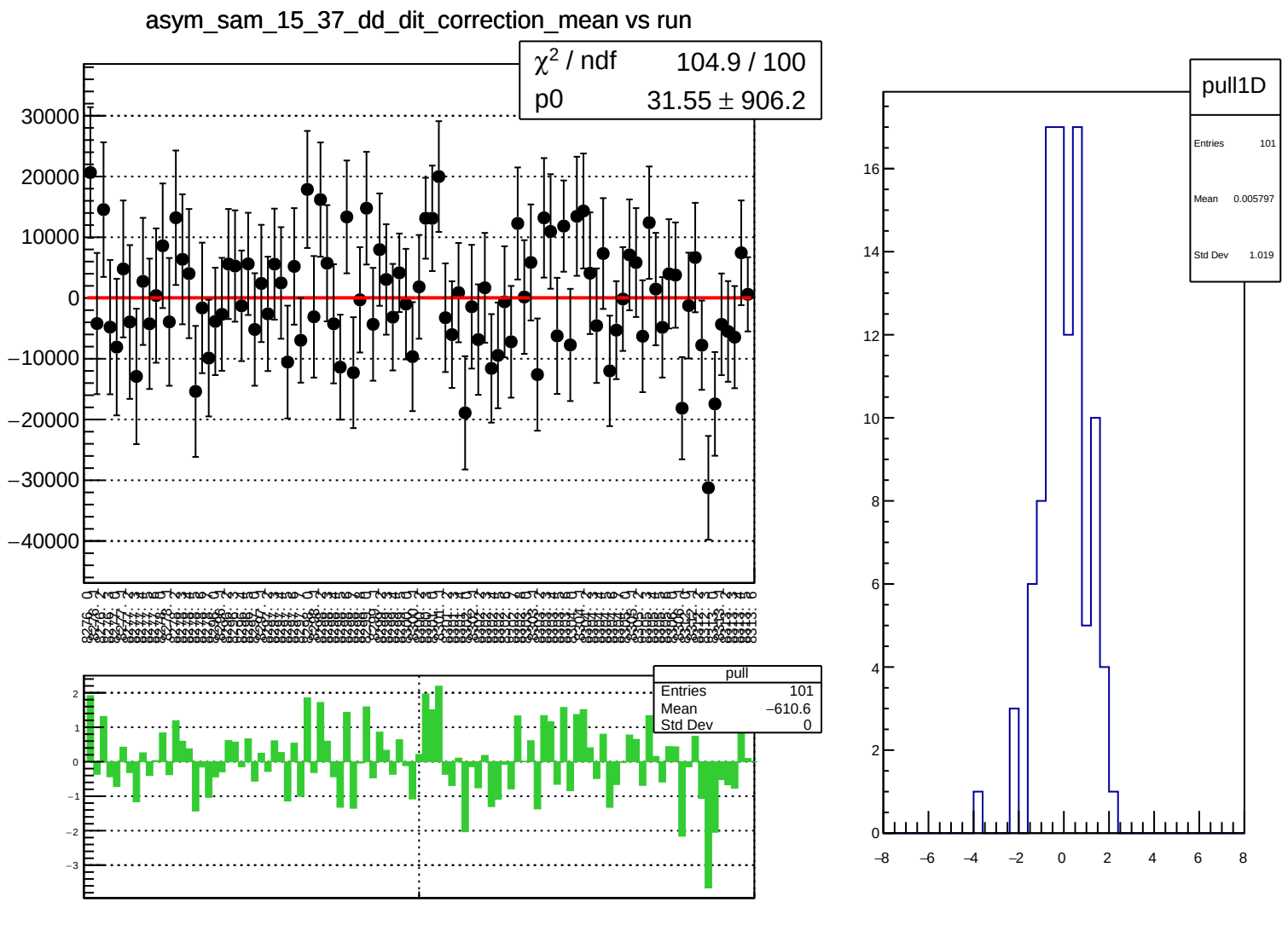

asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 104.9 / 100
p0 38.94 ± 916.7
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 101
Mean −493.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.007115
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

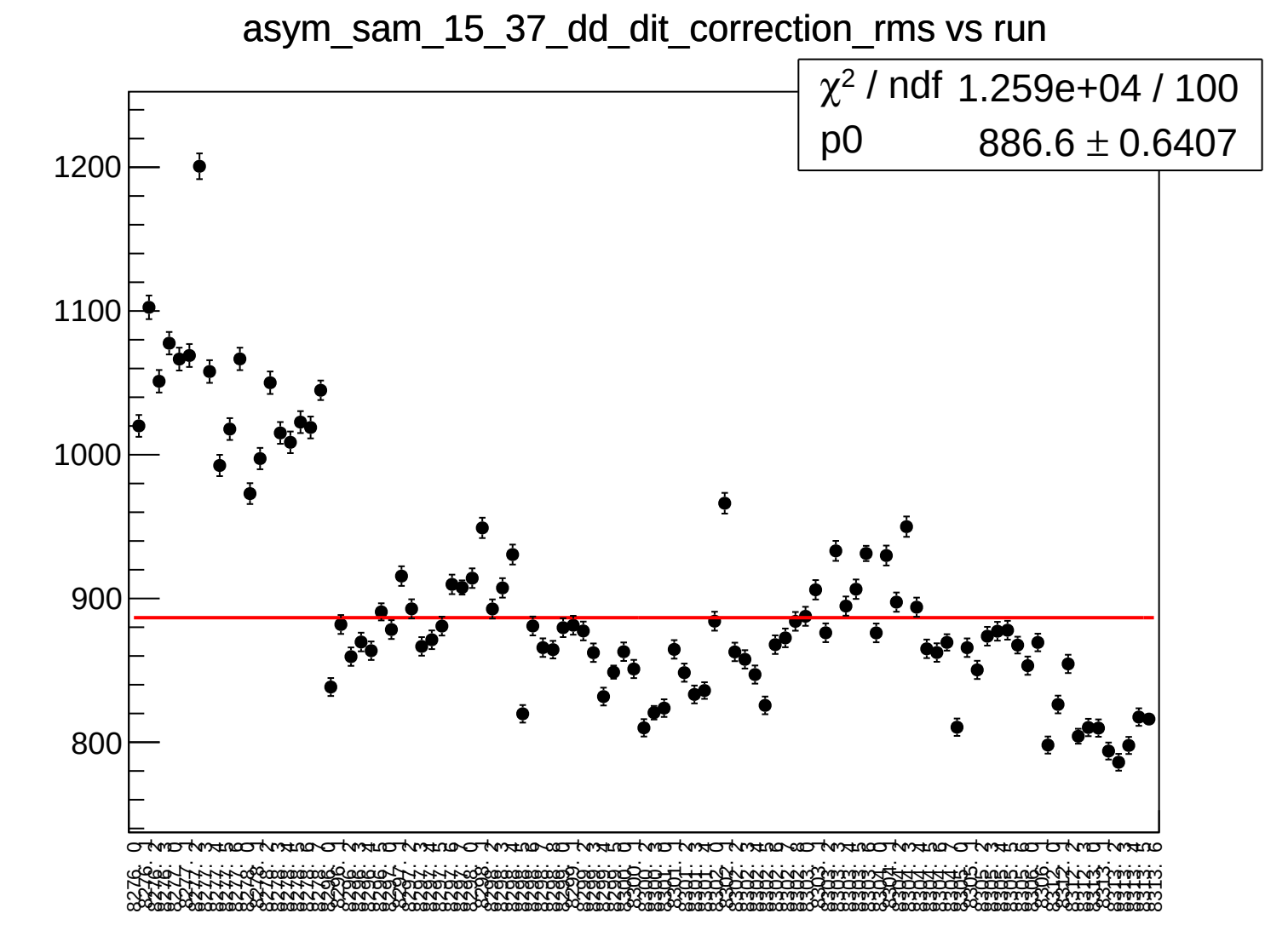

asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.28e+04 / 100
p0 896.9 ± 0.6482
1200
1150
1100
1050
1000
950
900
850
800
750

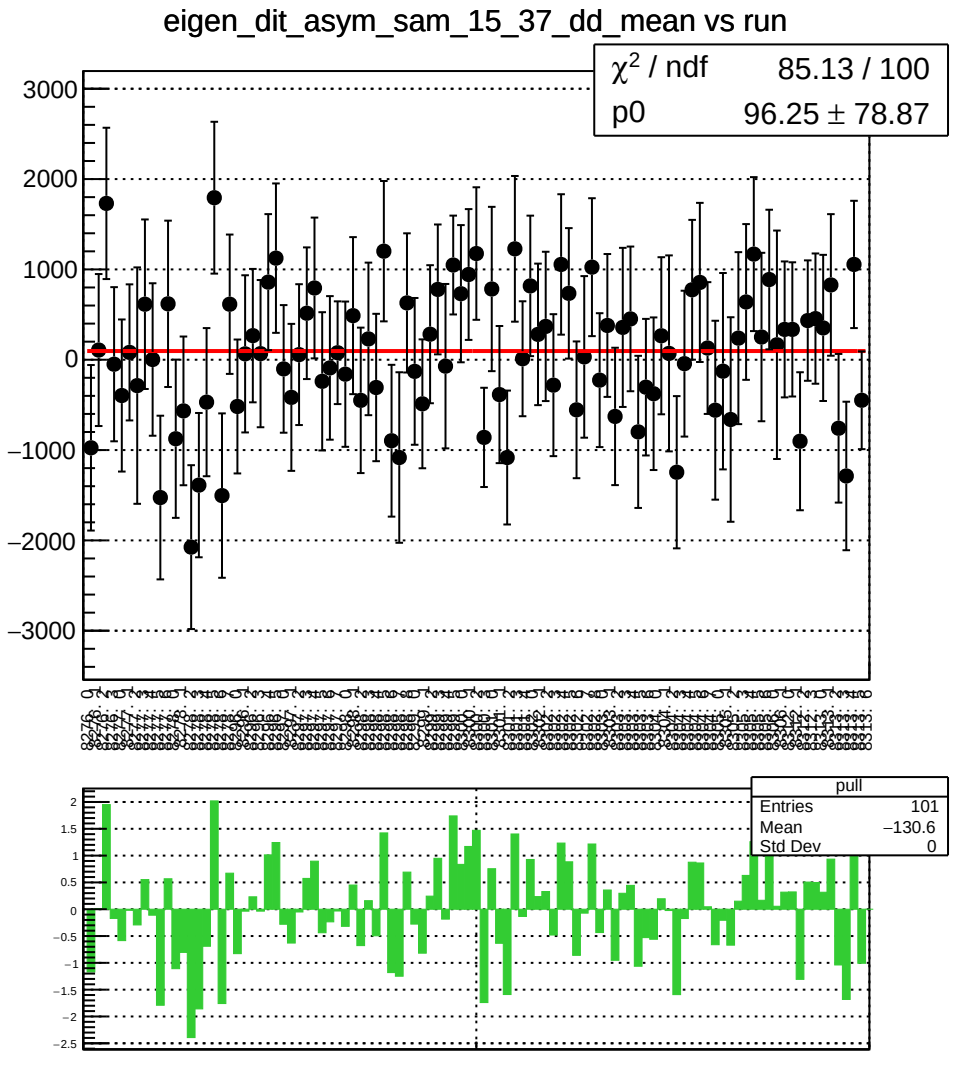

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 85.13 / 100
p0 96.26 ± 78.87
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 101
Mean −130.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

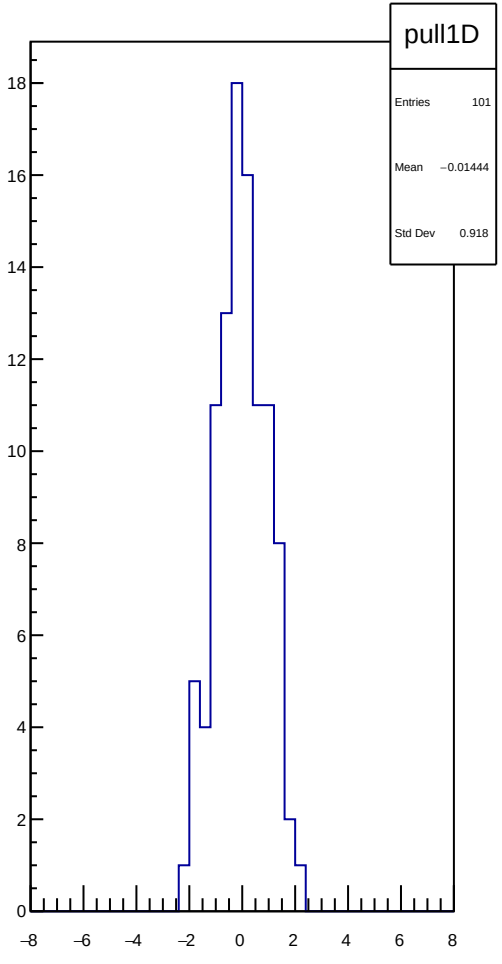

pull1D
Entries 101
Mean −0.01444
Std Dev 0.918
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

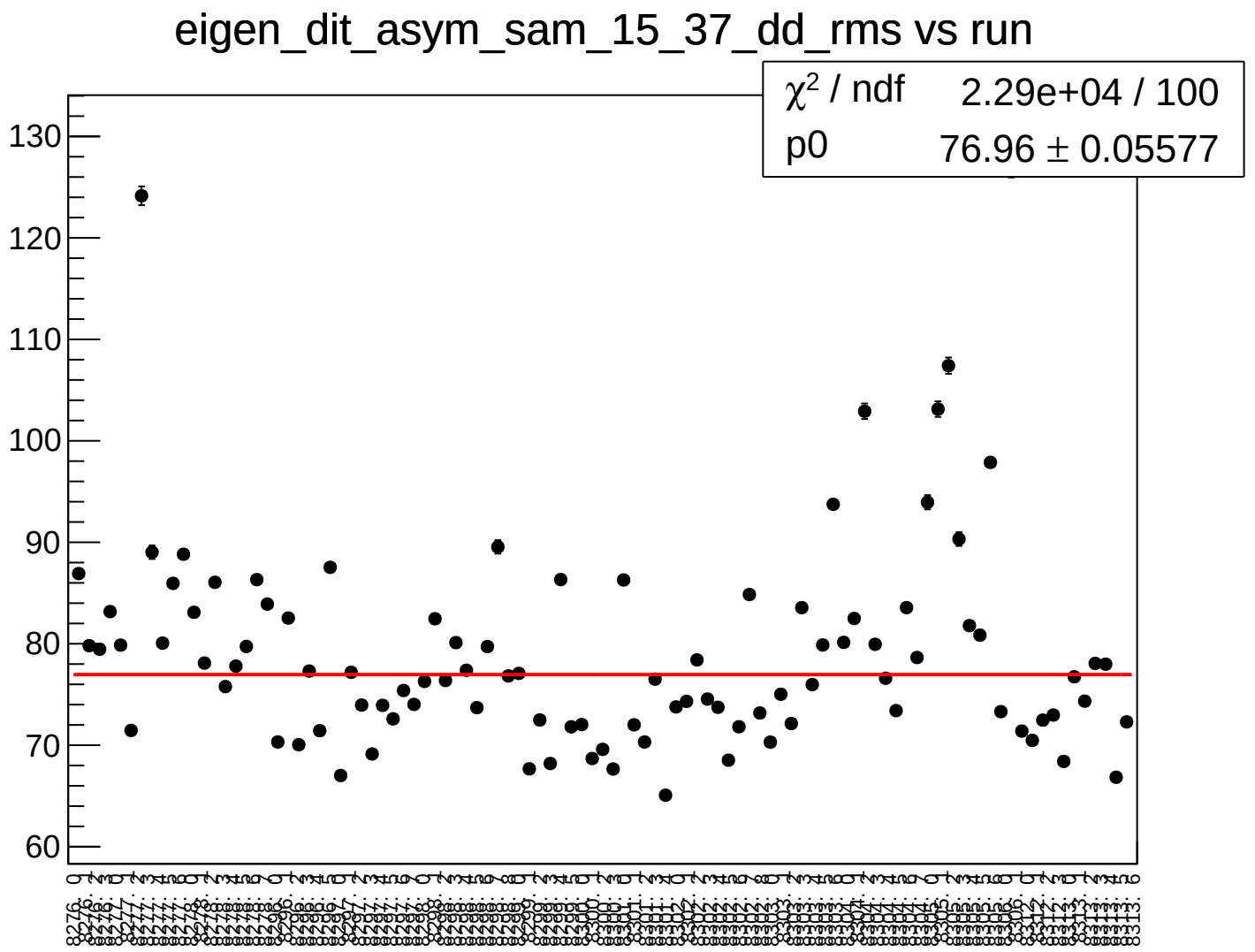

dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.29e+04 / 100
p0 76.96 ± 0.05577
130
120
110
100
90
80
70
60

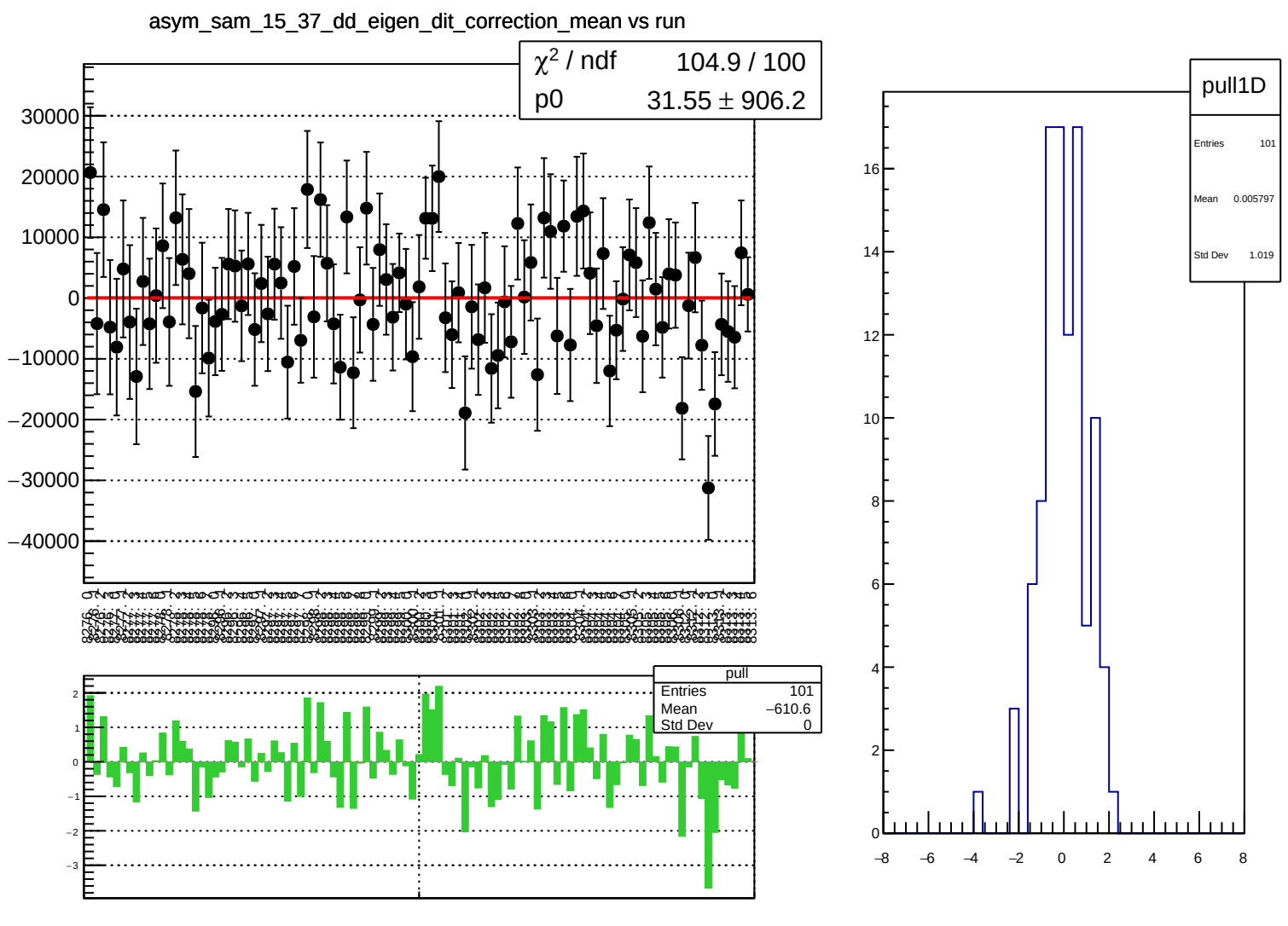

asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 104.9 / 100
p0 31.55 ± 906.2
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 101
Mean −610.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.005797
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

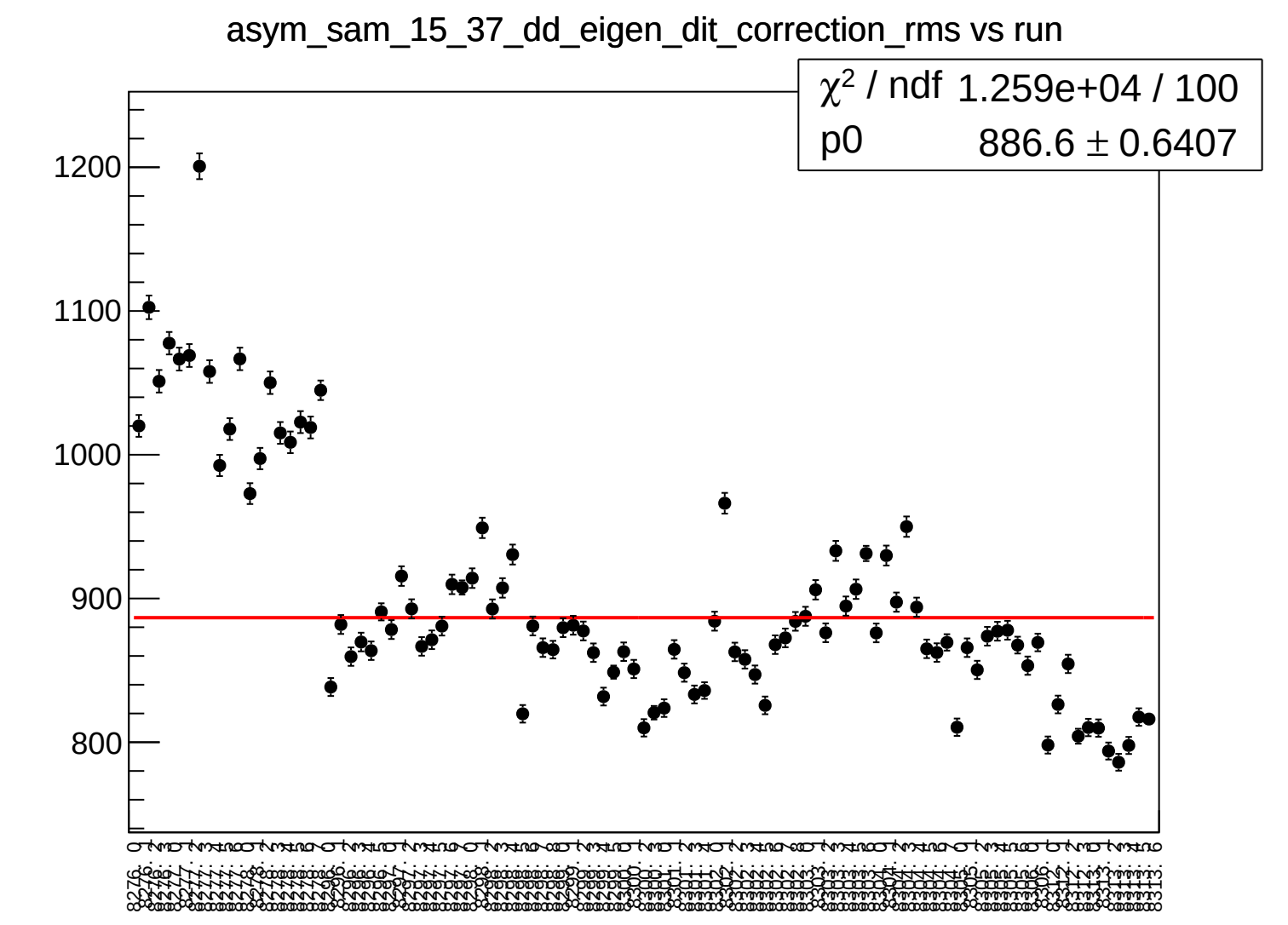

asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 1.259e+04 / 100
p0 886.6 ± 0.6407
1200
1100
1000
900
800

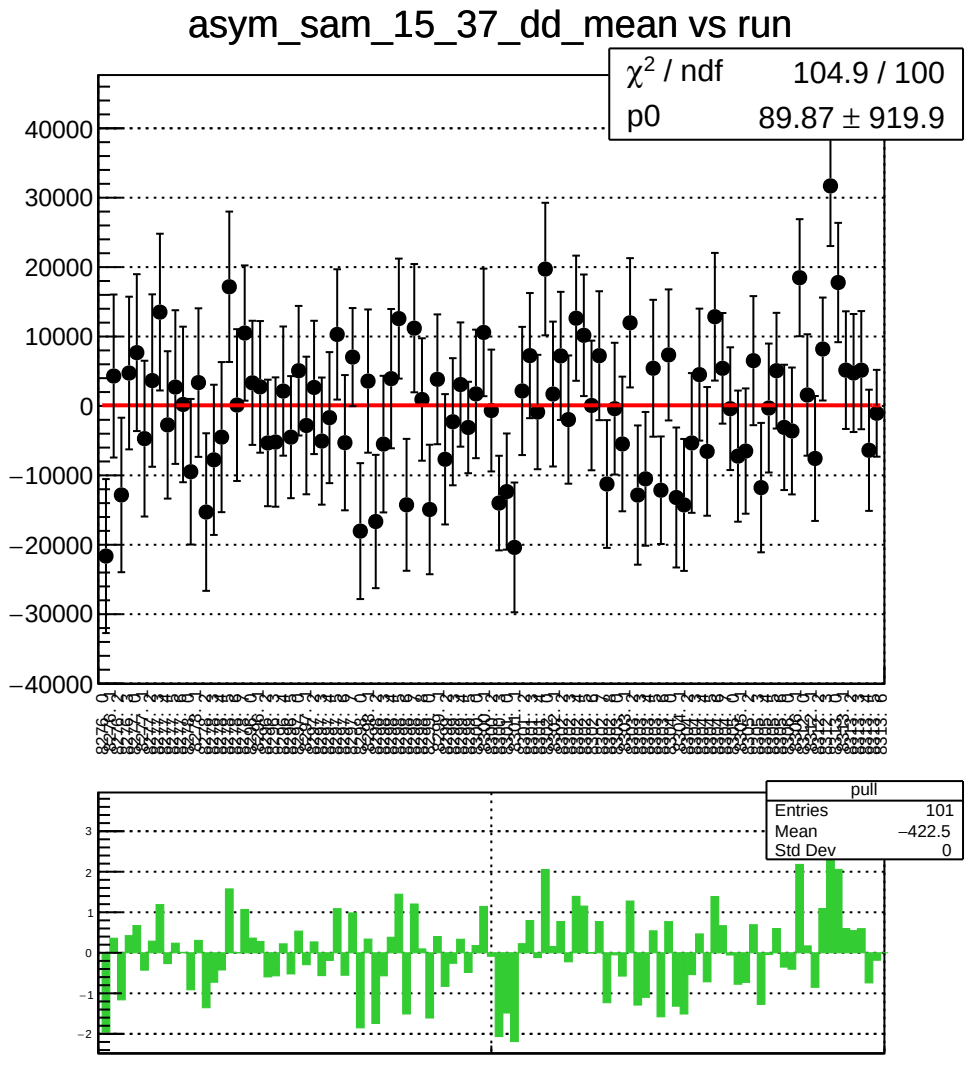

eigen_dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 85.13 / 100
p0 96.25 ± 78.87
pull
Entries 101
Mean −130.6
Std Dev 0

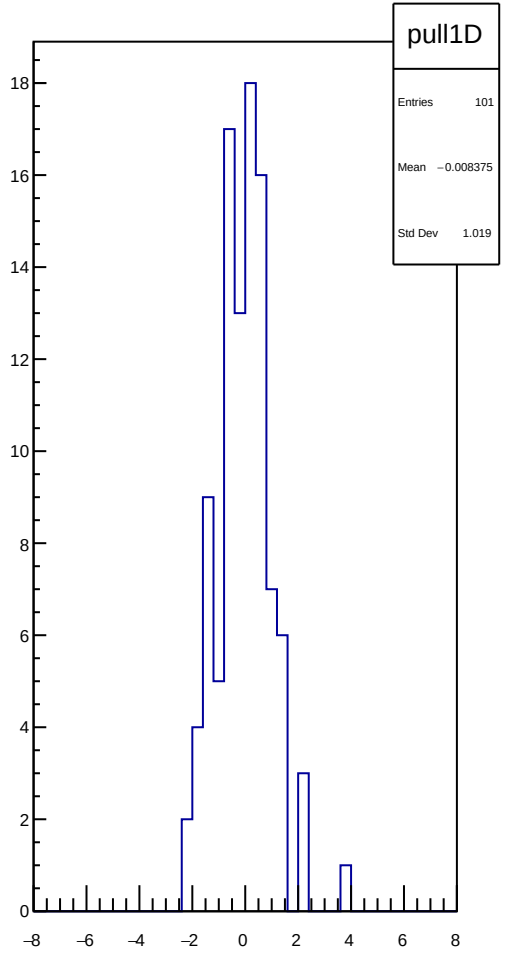

pull1D
Entries 101
Mean −0.01444
Std Dev 0.918

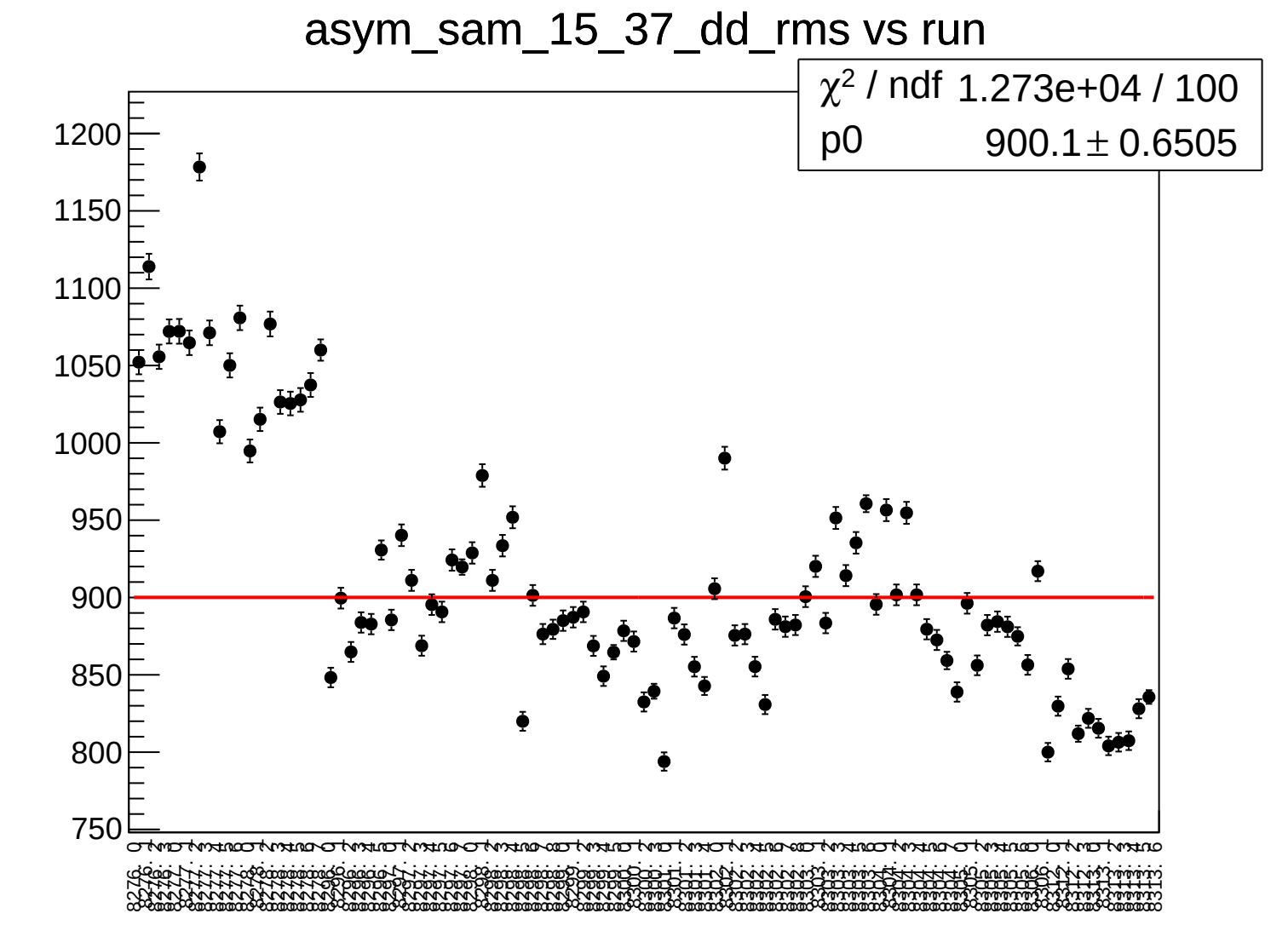

eigen_dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.29e+04 / 100
p0 76.96 ± 0.05577
130
120
110
100
90
80
70
60

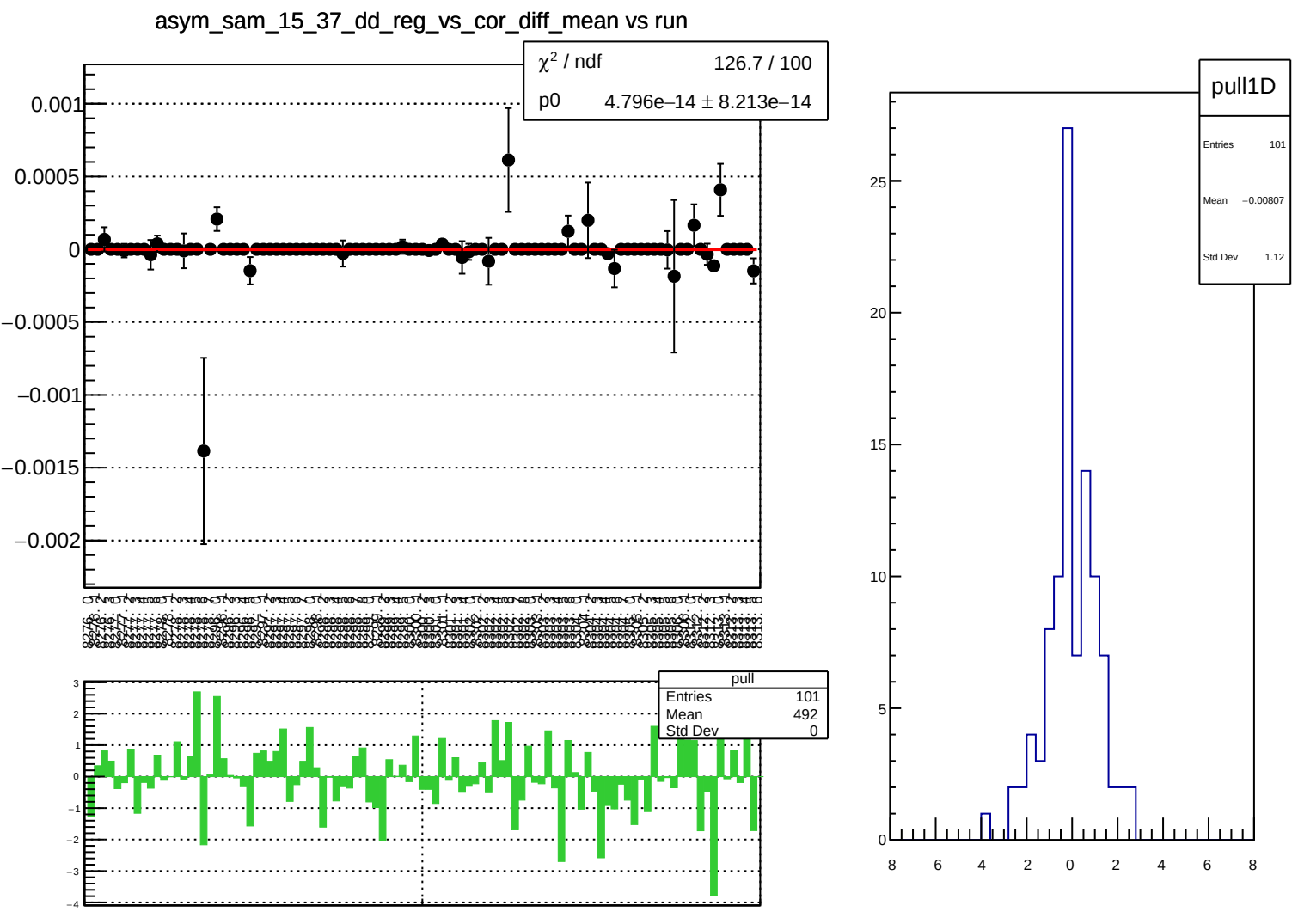

asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 104.9 / 100
p0 31.55 ± 906.2
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 101
Mean −610.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.005797
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

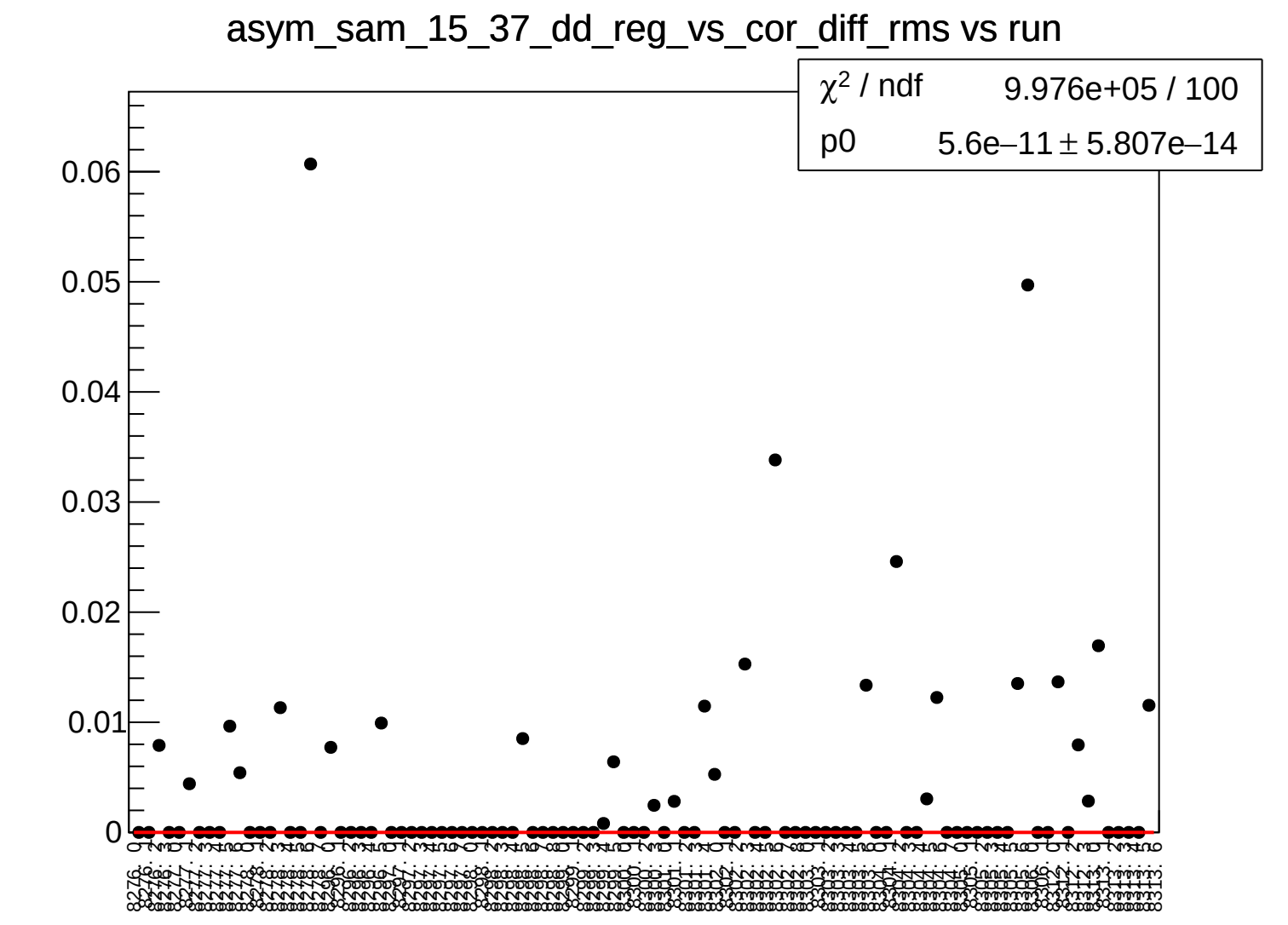

asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.259e+04 / 100
p0 886.6 ± 0.6407
1200
1100
1000
900
800

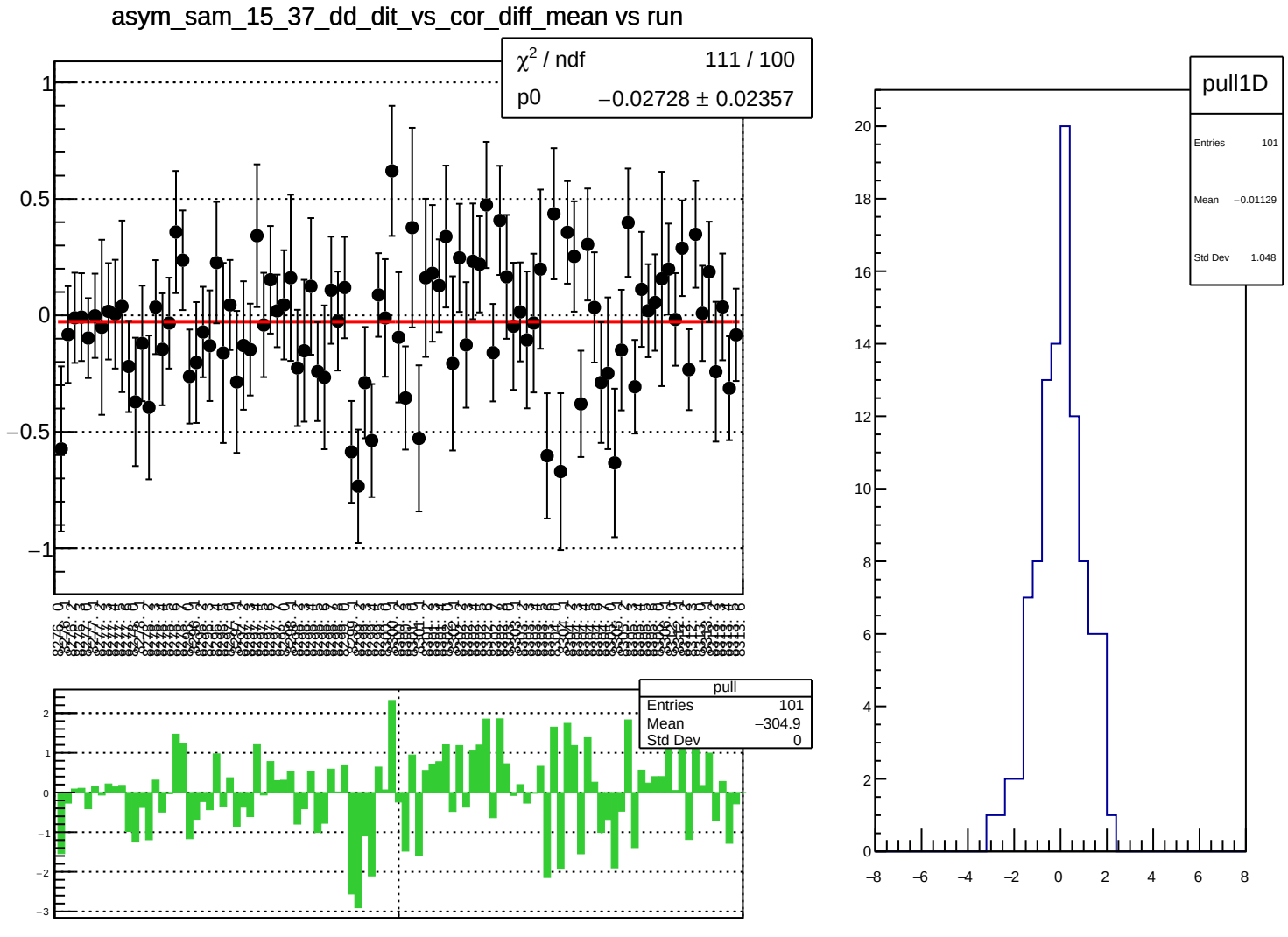

asym_sam_15_37_dd_mean vs run
χ² / ndf 104.9 / 100
p0 89.87 ± 919.9
pull
Entries 101
Mean −422.5
Std Dev 0

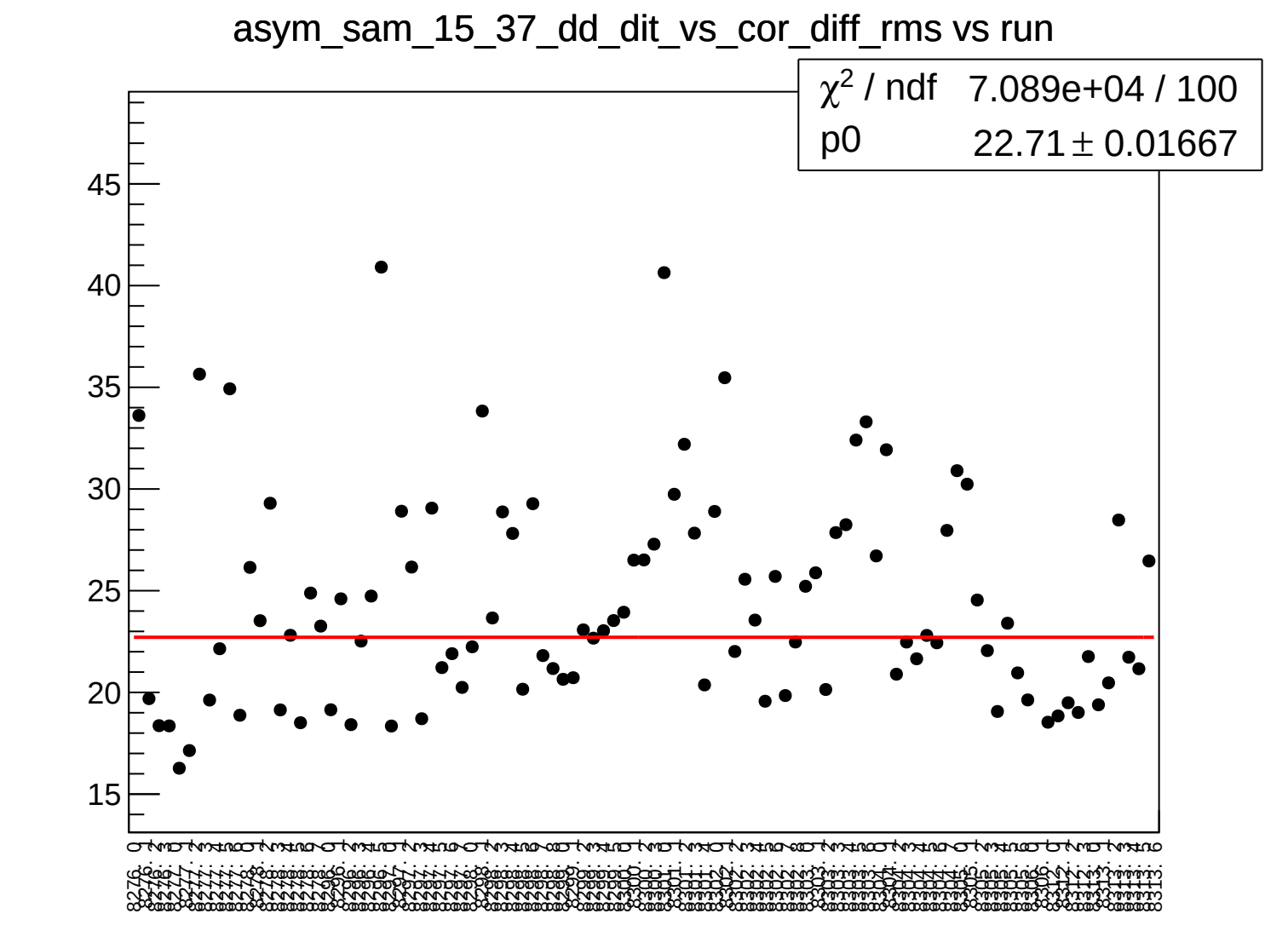

pull1D
Entries 101
Mean −0.008375
Std Dev 1.019

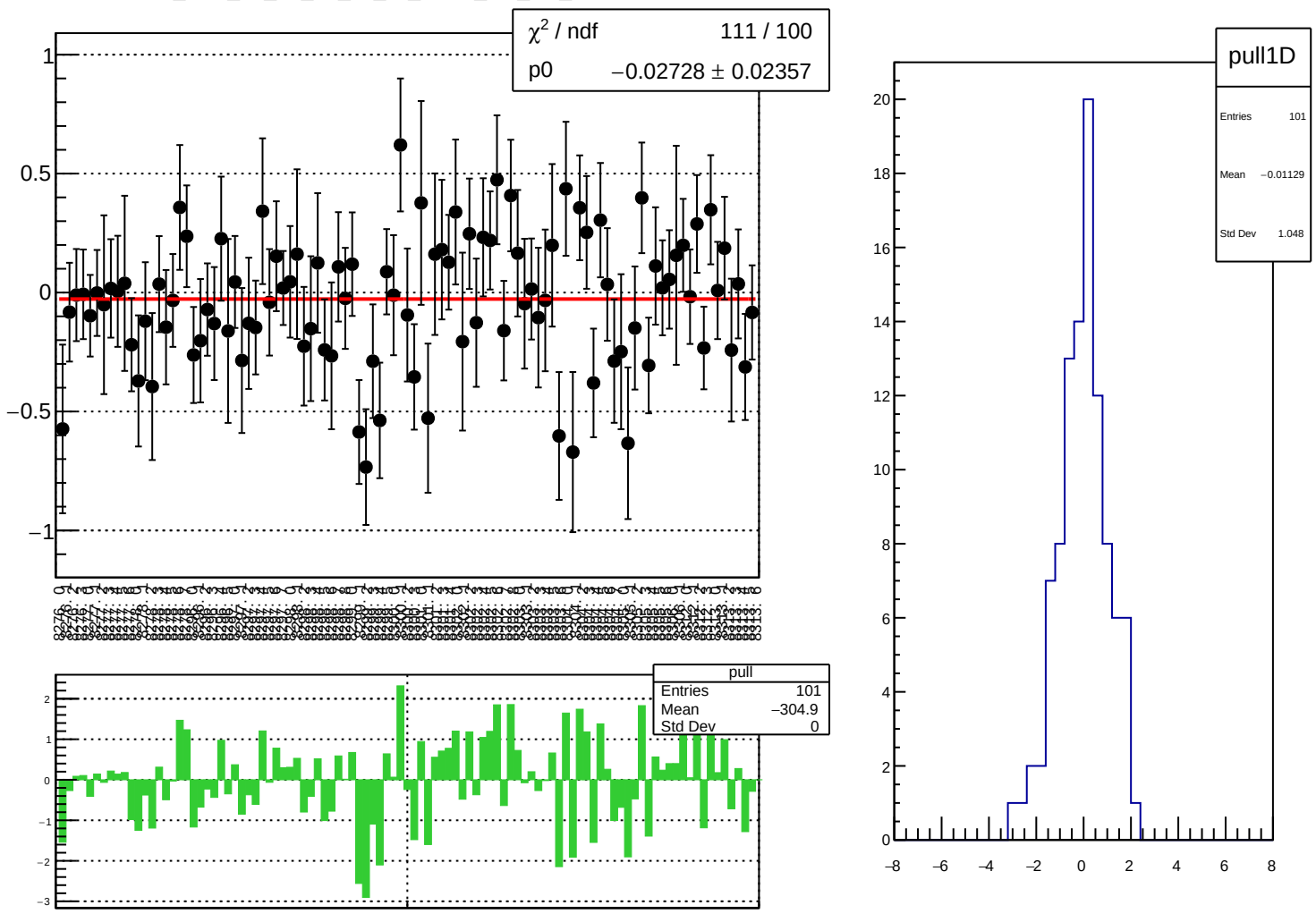

asym_sam_15_37_dd_rms vs run
χ² / ndf 1.273e+04 / 100
p0 900.1 ± 0.6505
1200
1150
1100
1050
1000
950
900
850
800
750

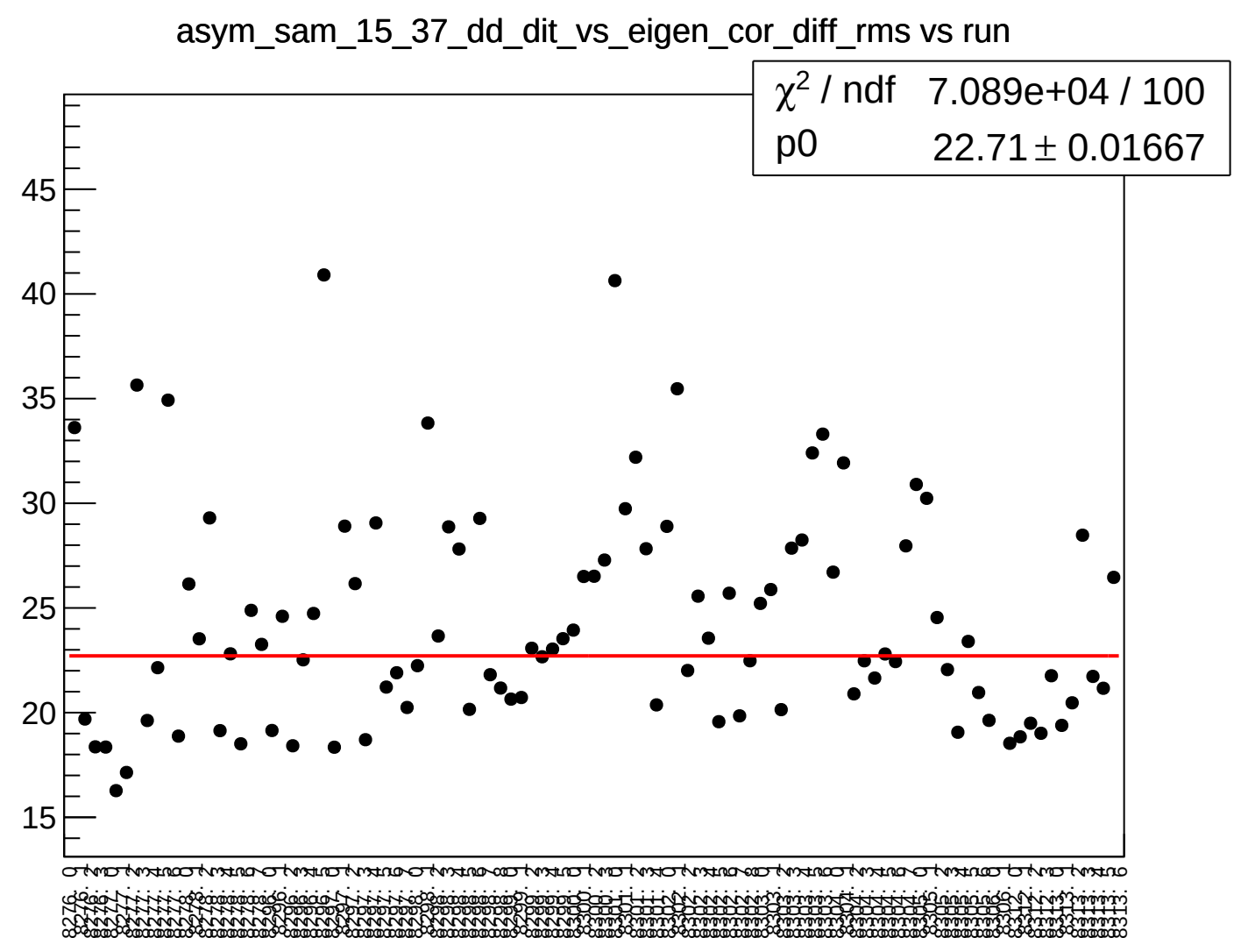

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 126.7 / 100
p0 4.796e−14 ± 8.213e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 101
Mean 492
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 101
Mean −0.00807
Std Dev 1.12
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

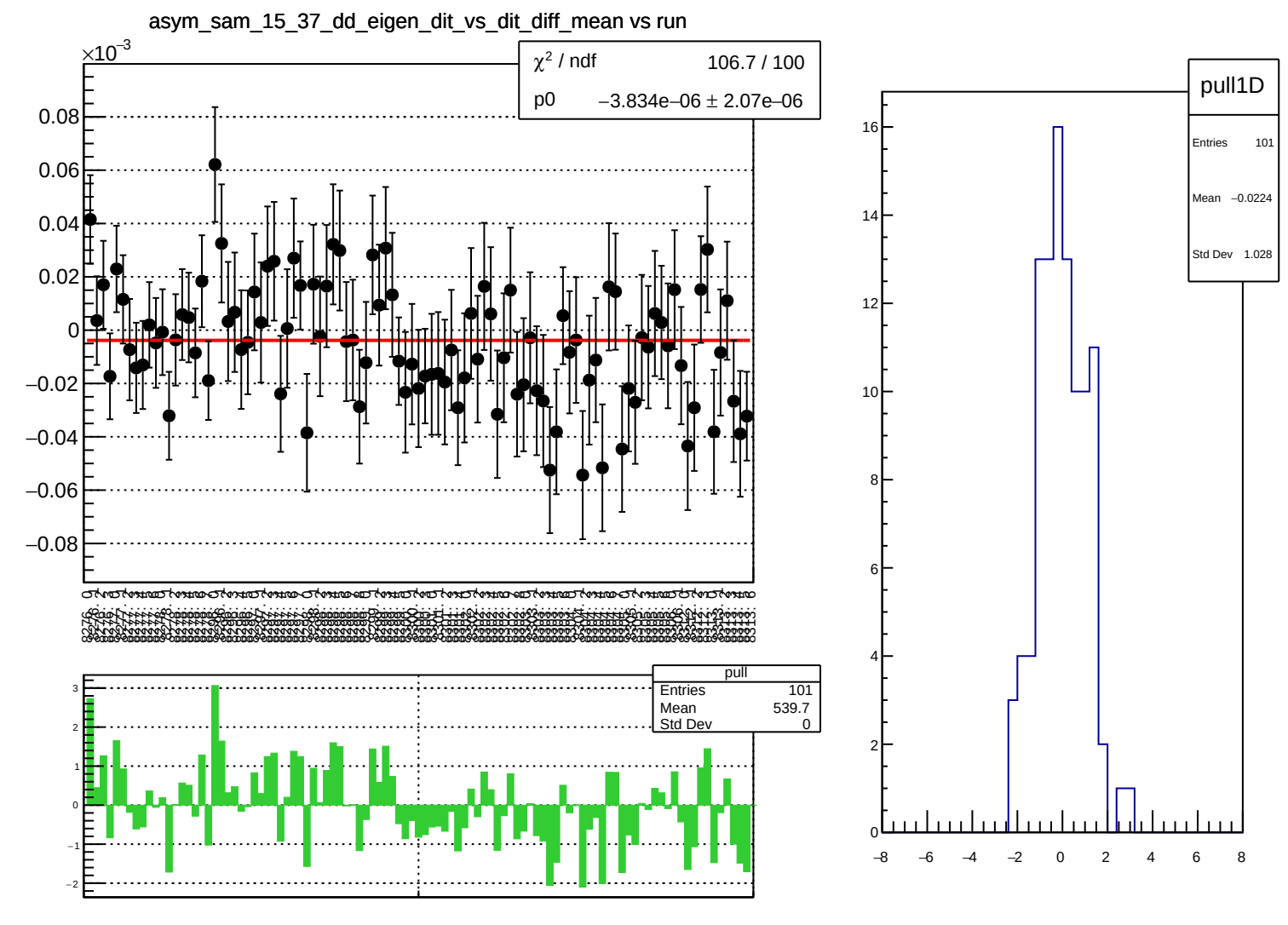

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.976e+05 / 100
p0 5.6e−11 ± 5.807e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

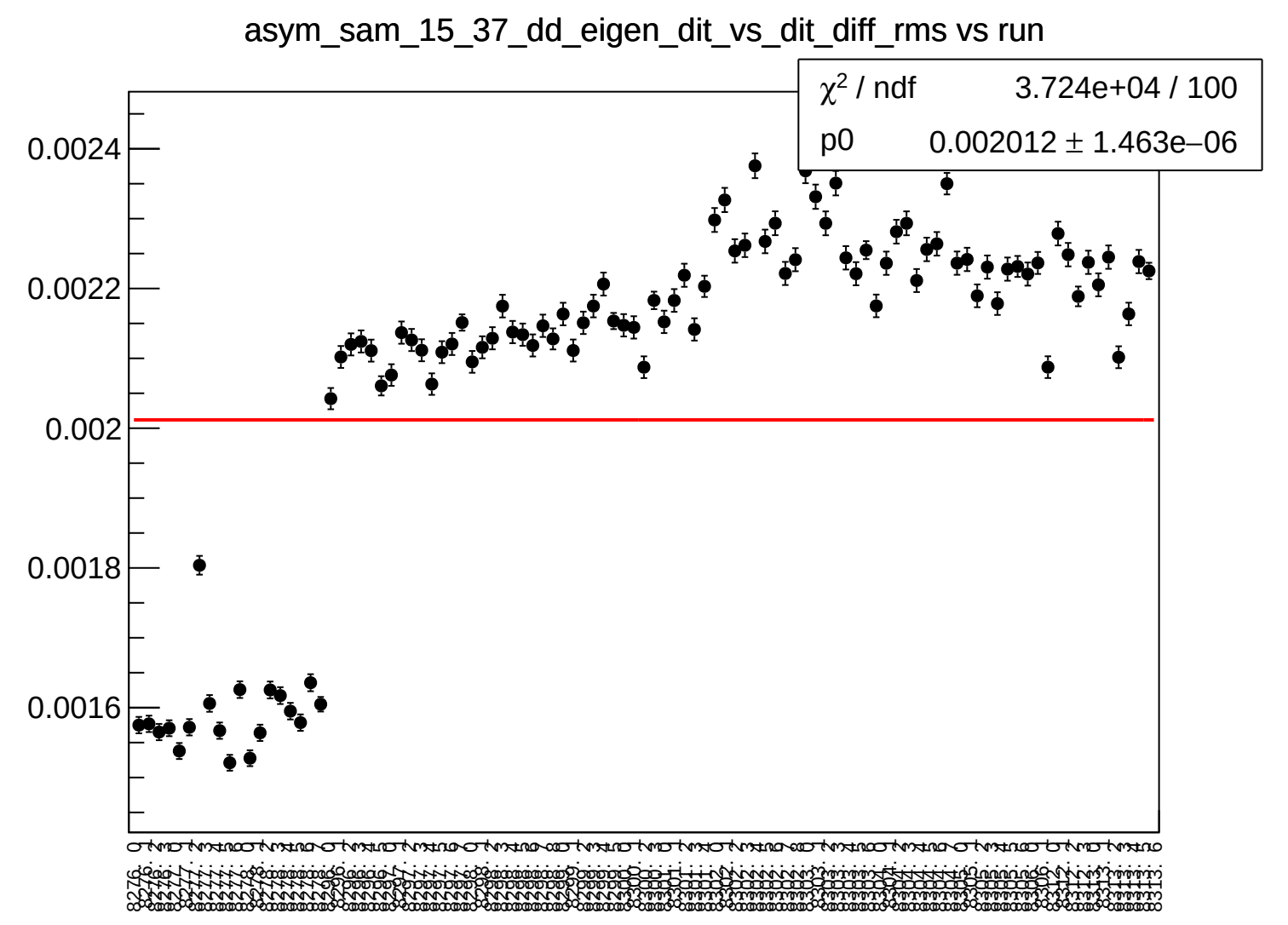

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 111 / 100
p0 −0.02728 ± 0.02357
pull
Entries 101
Mean −304.9
Std Dev 0
pull1D
Entries 101
Mean −0.01129
Std Dev 1.048

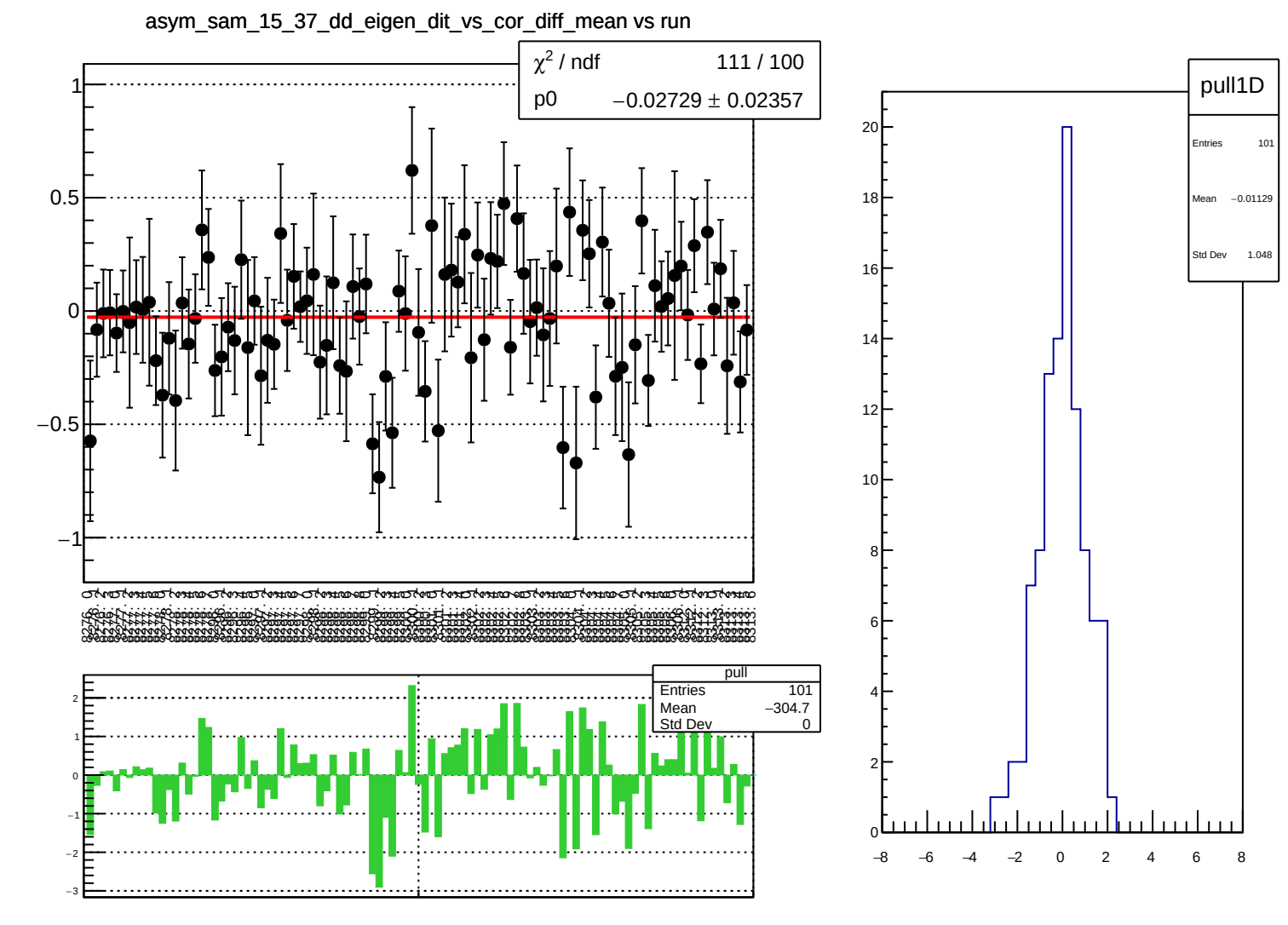

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.089e+04 / 100
p0 22.71 ± 0.01667
45
40
35
30
25
20
15

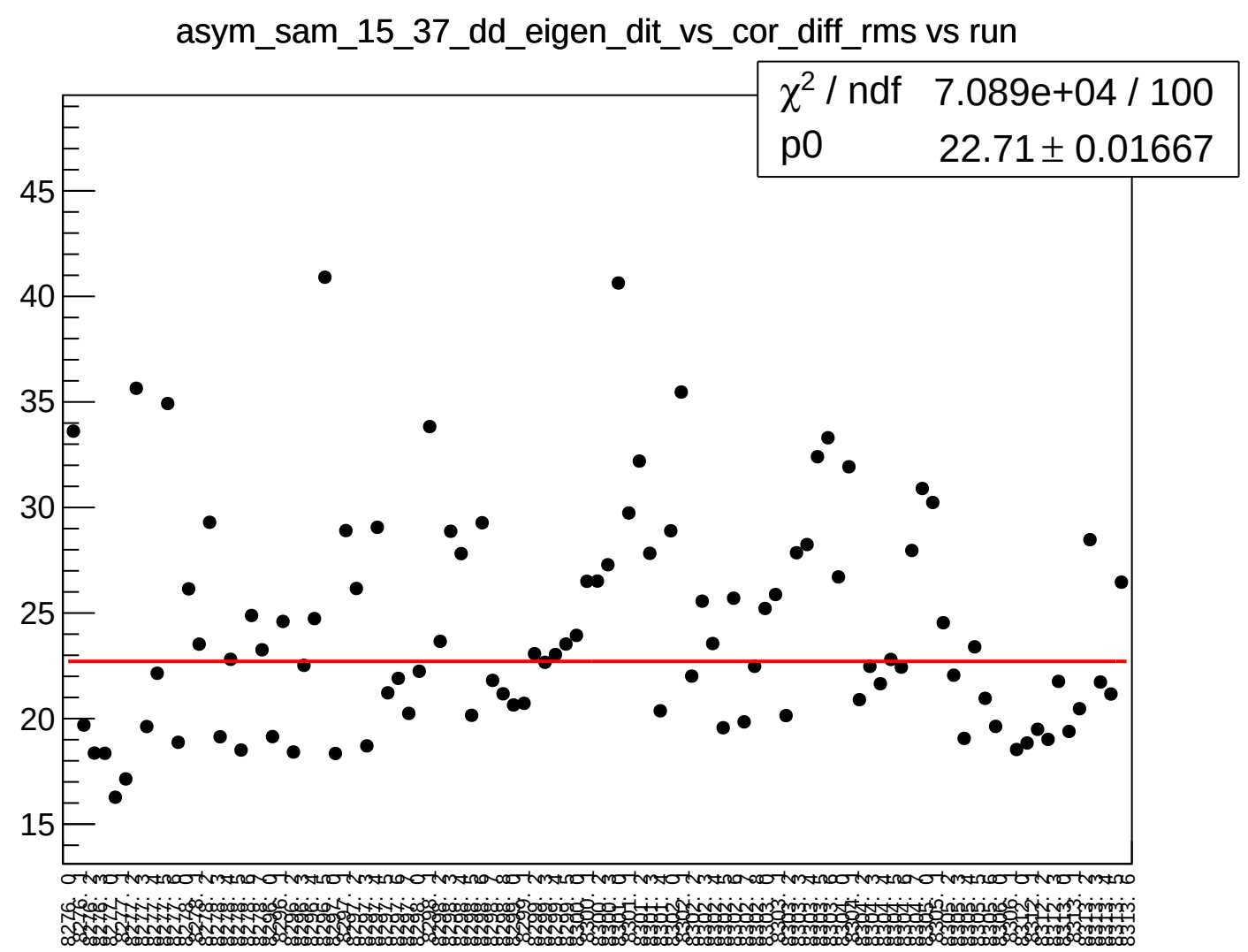

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 111 / 100
p0 −0.02728 ± 0.02357
pull
Entries 101
Mean −304.9
Std Dev 0
pull1D
Entries 101
Mean −0.01129
Std Dev 1.048

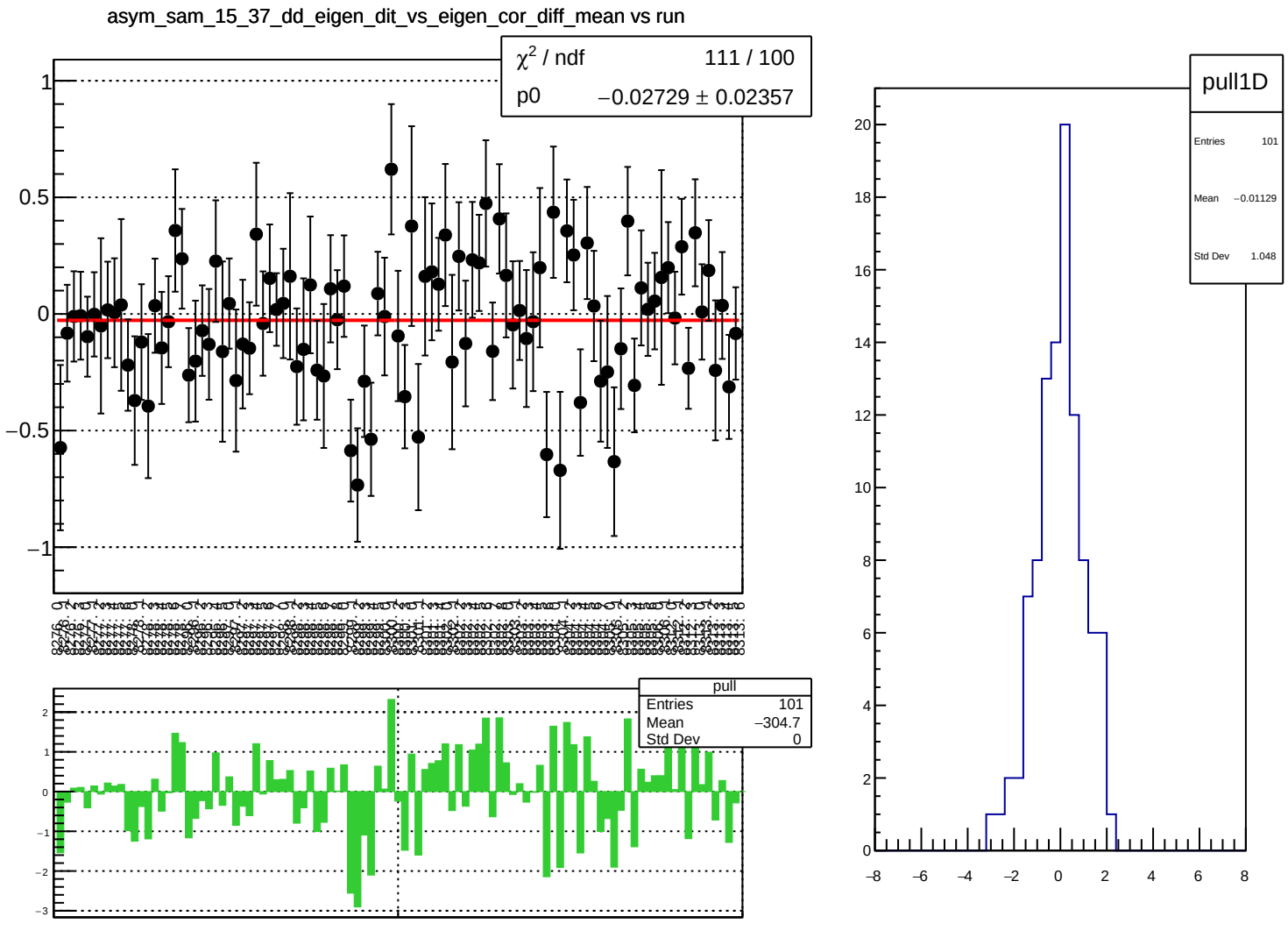

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 7.089e+04 / 100
p0 22.71 ± 0.01667
45
40
35
30
25
20
15

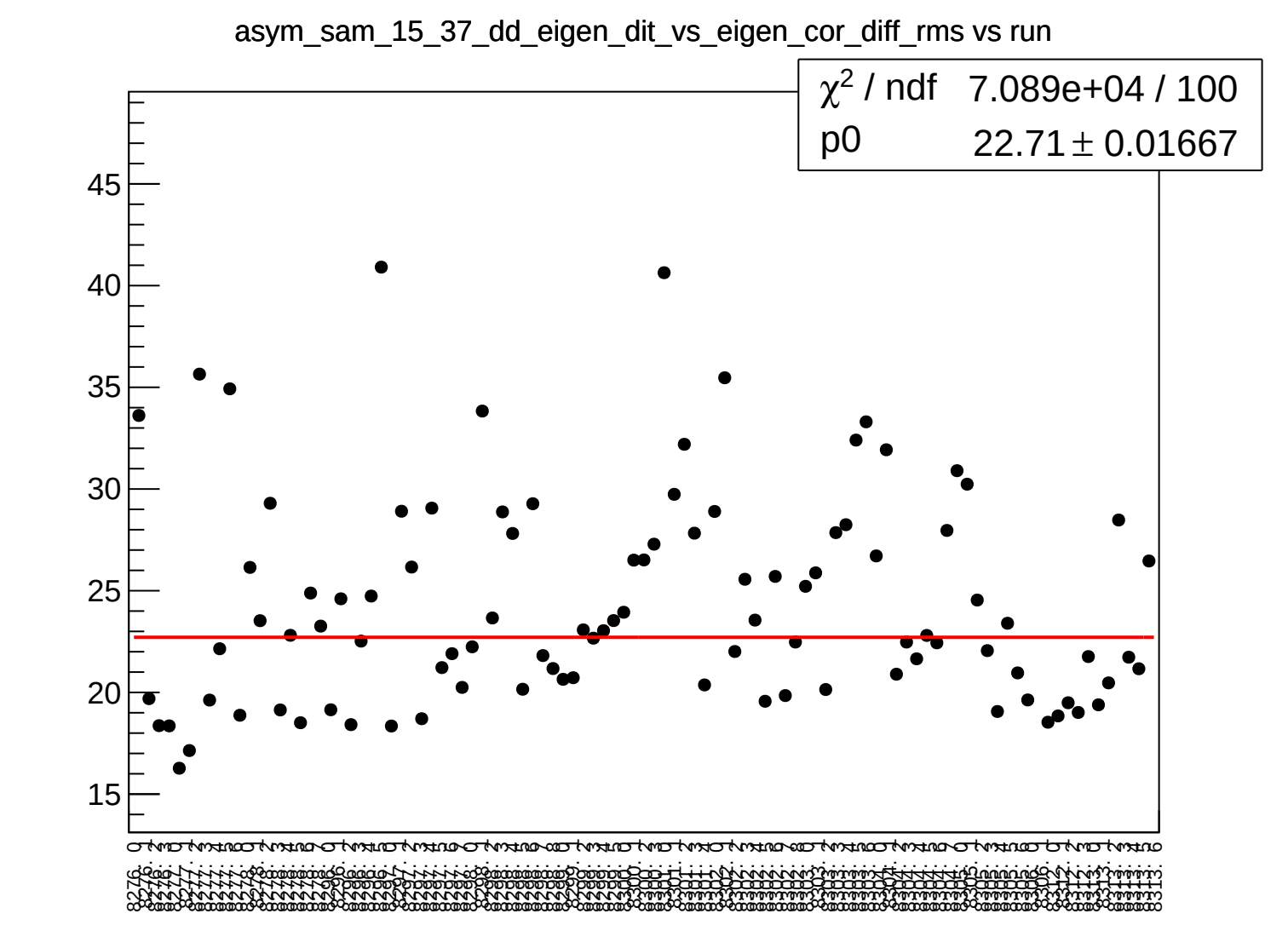

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 106.7 / 100
p0 −3.834e−06 ± 2.07e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 101
Mean 539.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.0224
Std Dev 1.028
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

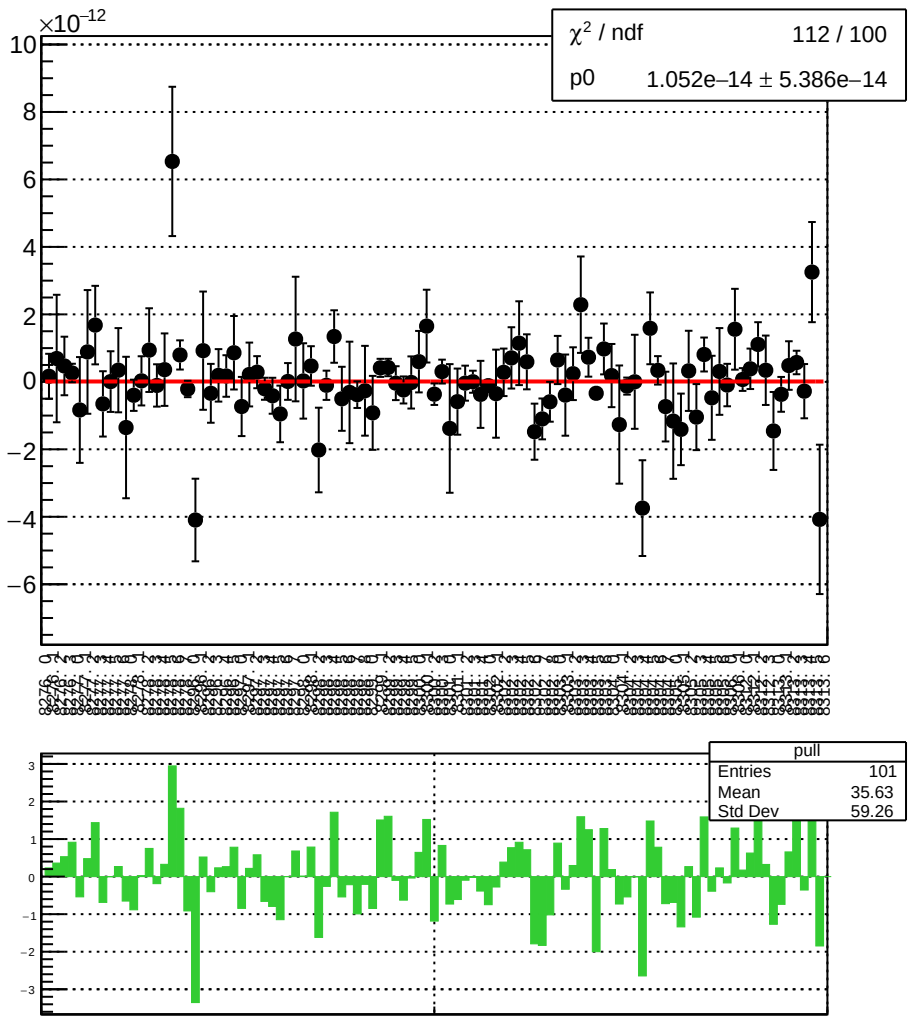

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.724e+04 / 100
p0 0.002012 ± 1.463e−06
0.0024
0.0022
0.002
0.0018
0.0016

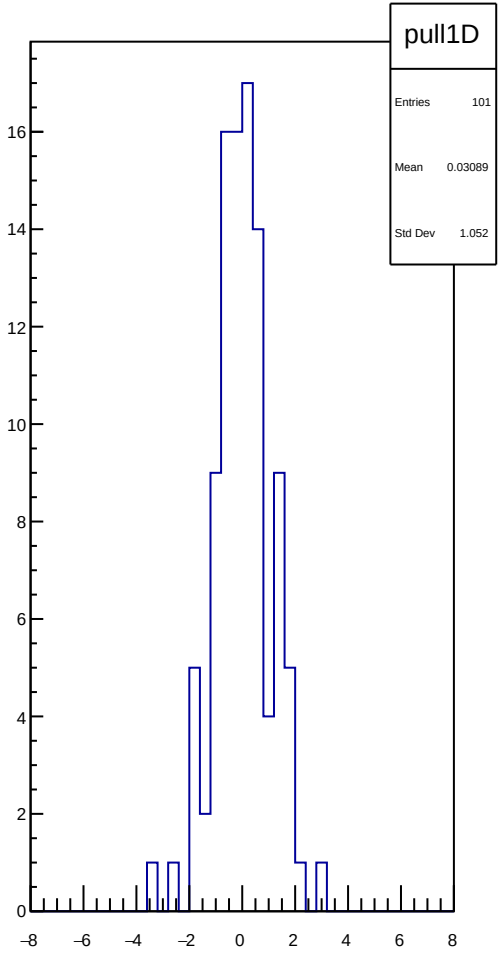

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 111 / 100
p0 −0.02729 ± 0.02357
pull
Entries 101
Mean −304.7
Std Dev 0
pull1D
Entries 101
Mean −0.01129
Std Dev 1.048

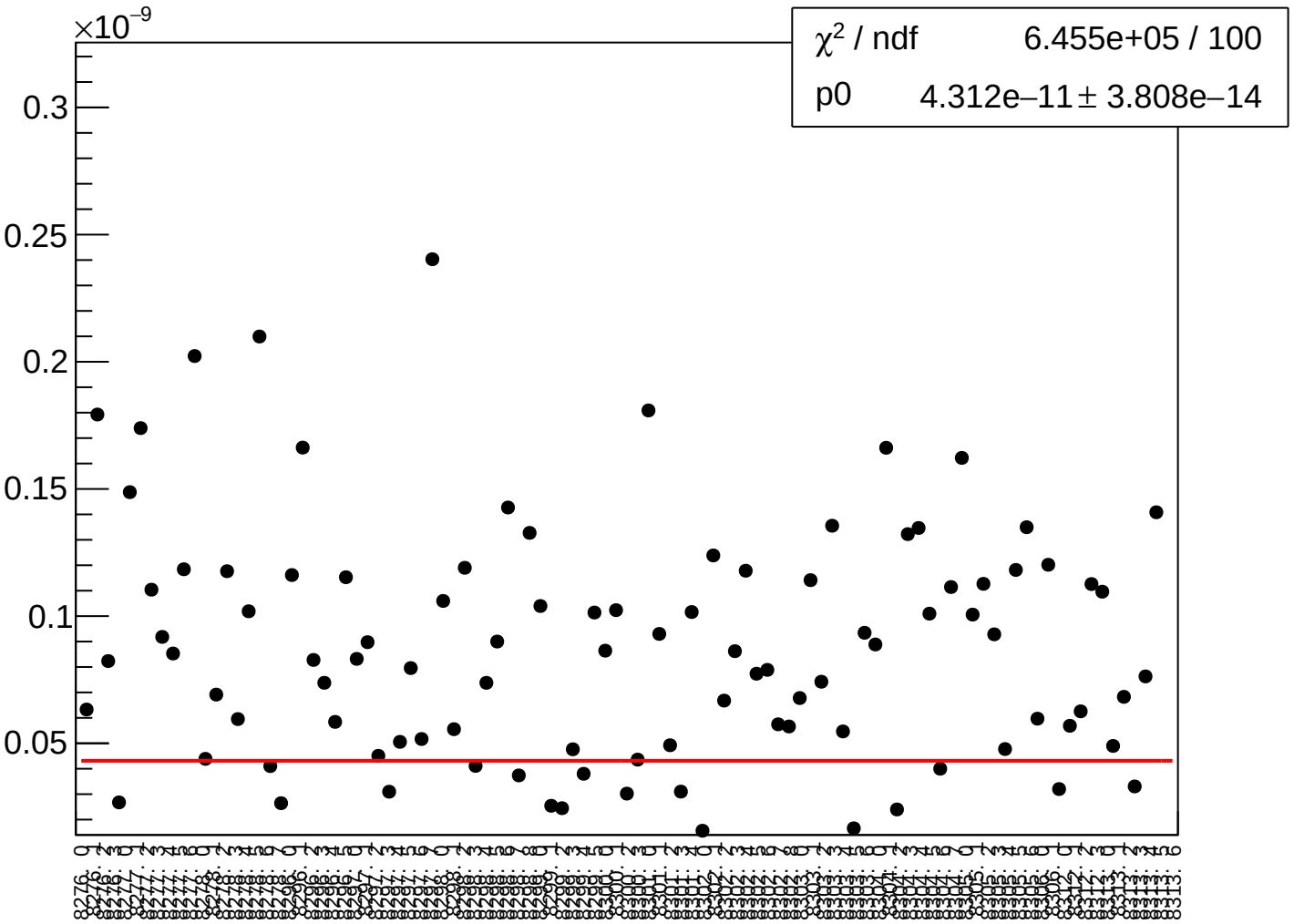

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 7.089e+04 / 100
p0 22.71 ± 0.01667
45
40
35
30
25
20
15

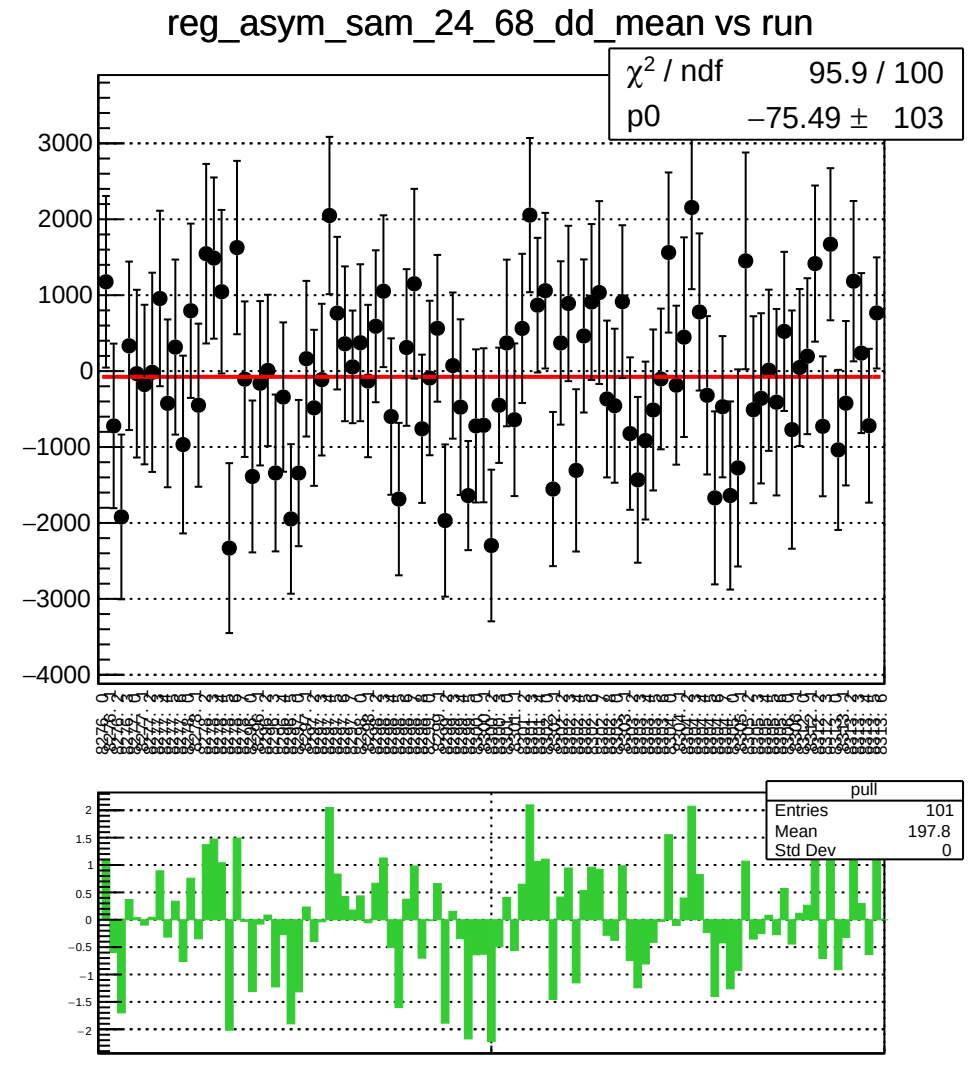

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 111 / 100
p0 −0.02729 ± 0.02357
pull
Entries 101
Mean −304.7
Std Dev 0
pull1D
Entries 101
Mean −0.01129
Std Dev 1.048

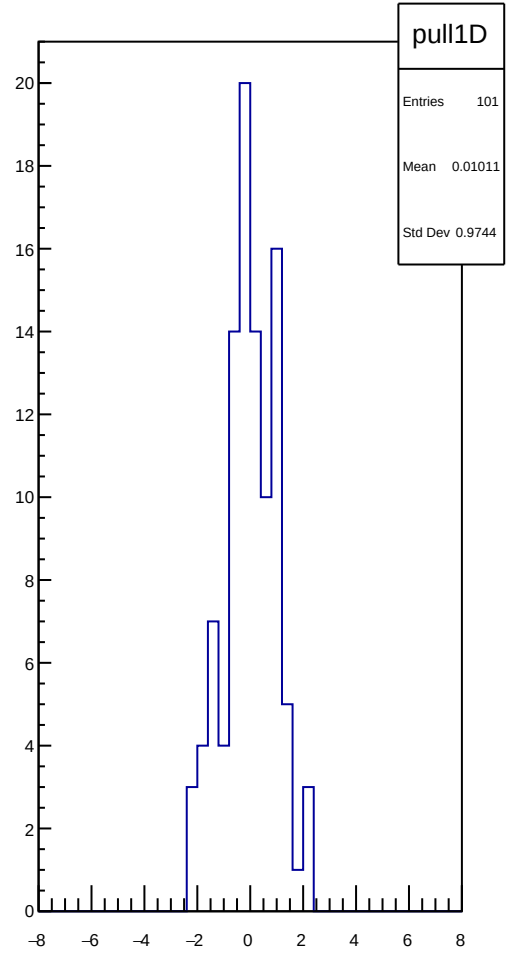

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 7.089e+04 / 100
p0 22.71 ± 0.01667
45
40
35
30
25
20
15

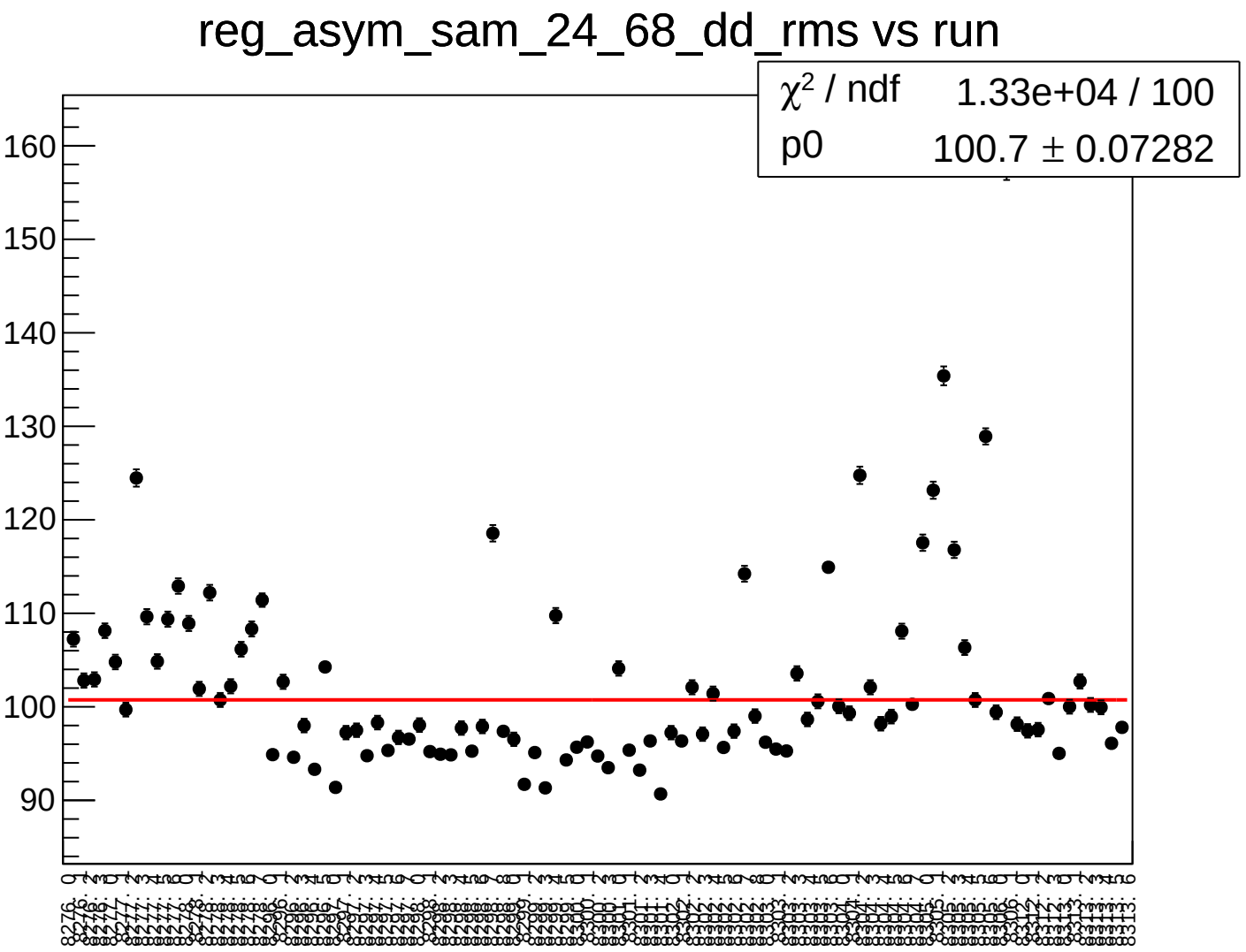

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 112 / 100
p0 1.052e−14 ± 5.386e−14
pull
Entries 101
Mean 35.63
Std Dev 59.26

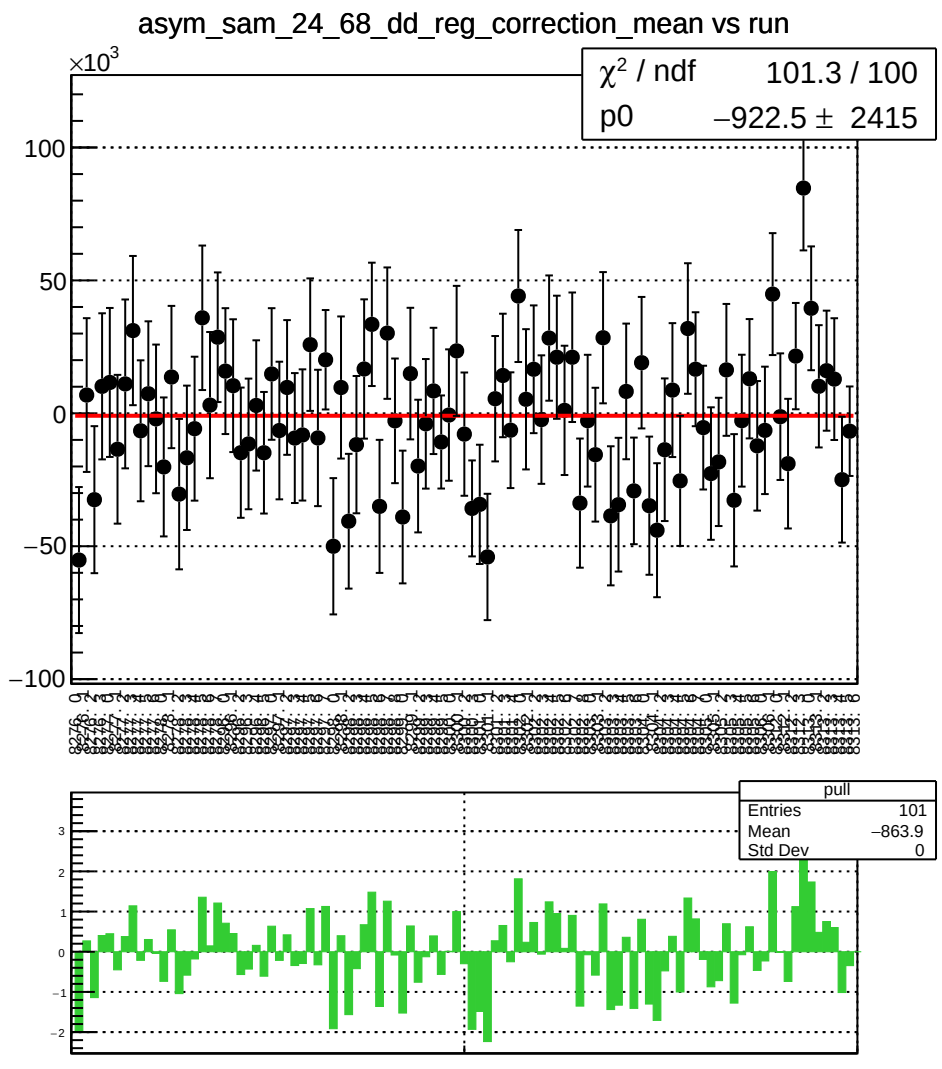

pull1D
Entries 101
Mean 0.03089
Std Dev 1.052

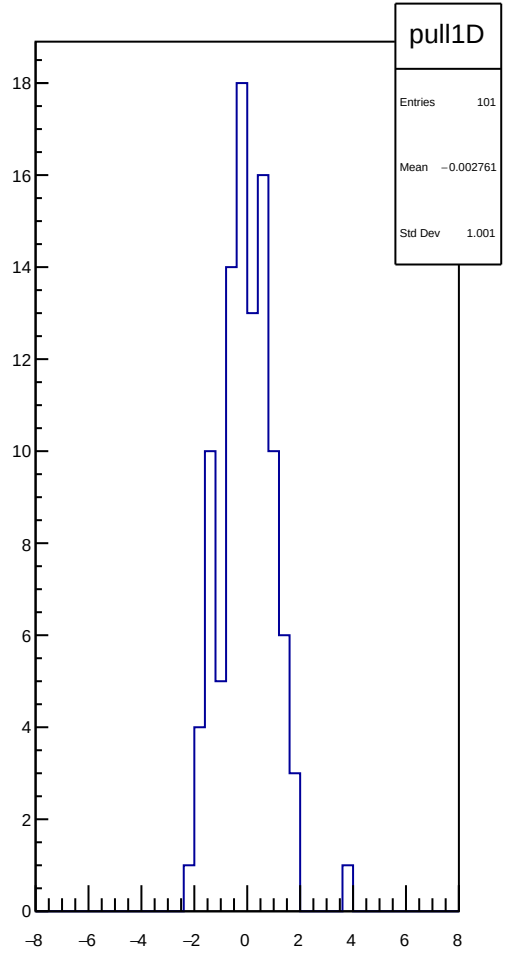

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.455e+05 / 100
p0 4.312e−11 ± 3.808e−14
0.3
0.25
0.2
0.15
0.1
0.05

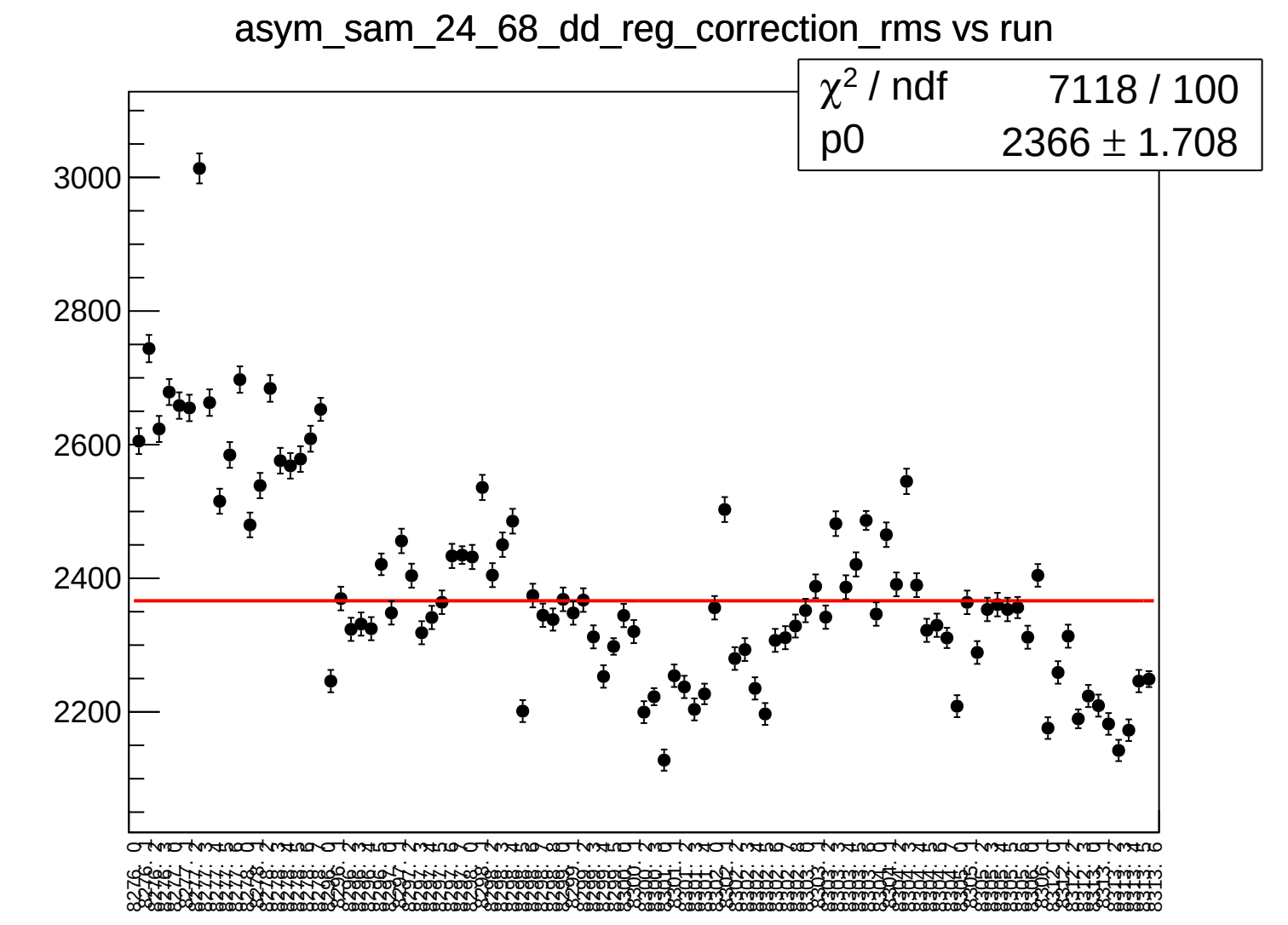

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 95.9 / 100
p0 −75.49 ± 103
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 101
Mean 197.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

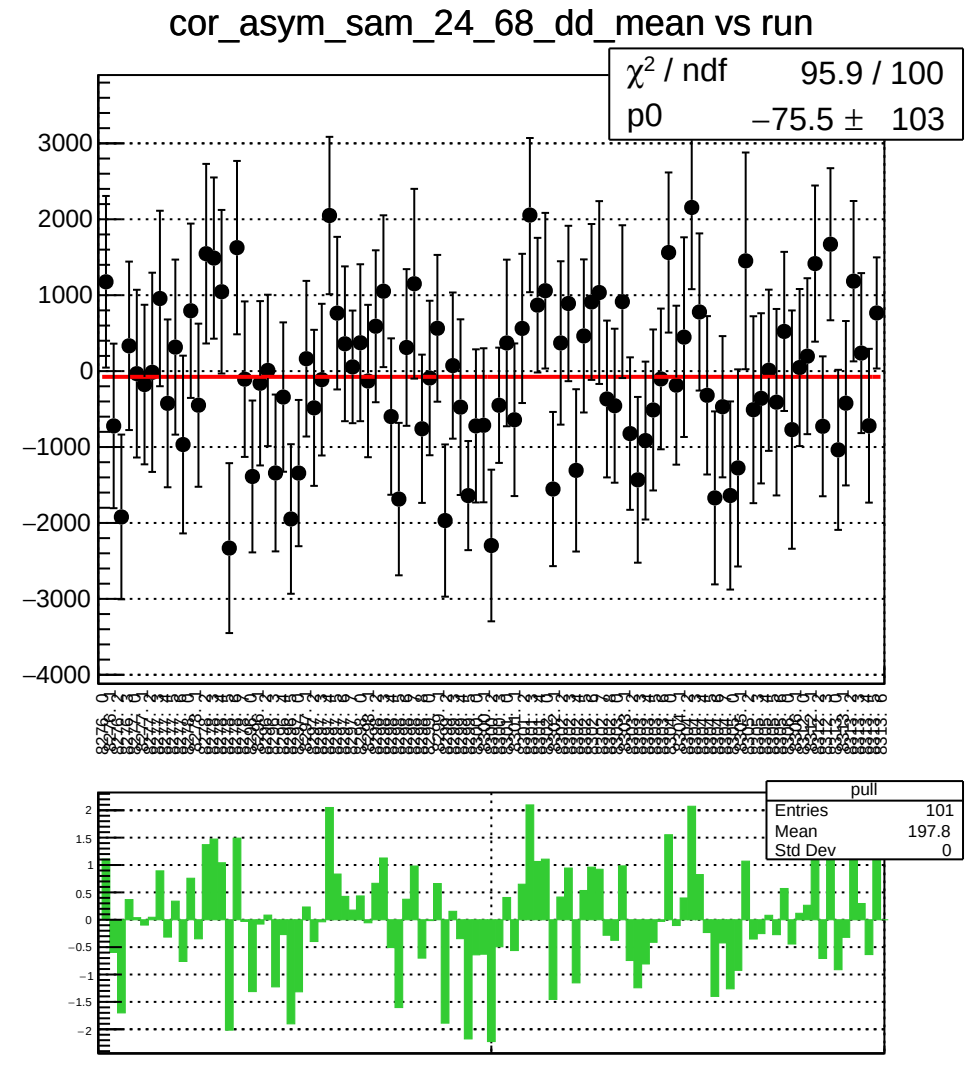

pull1D
Entries 101
Mean 0.01011
Std Dev 0.9744
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

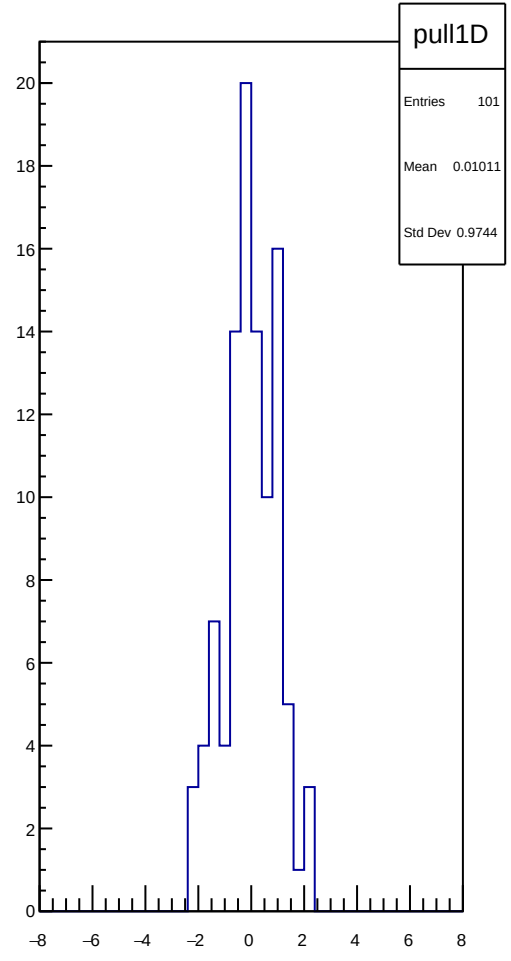

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.33e+04 / 100
p0 100.7 ± 0.07282
160
150
140
130
120
110
100
90

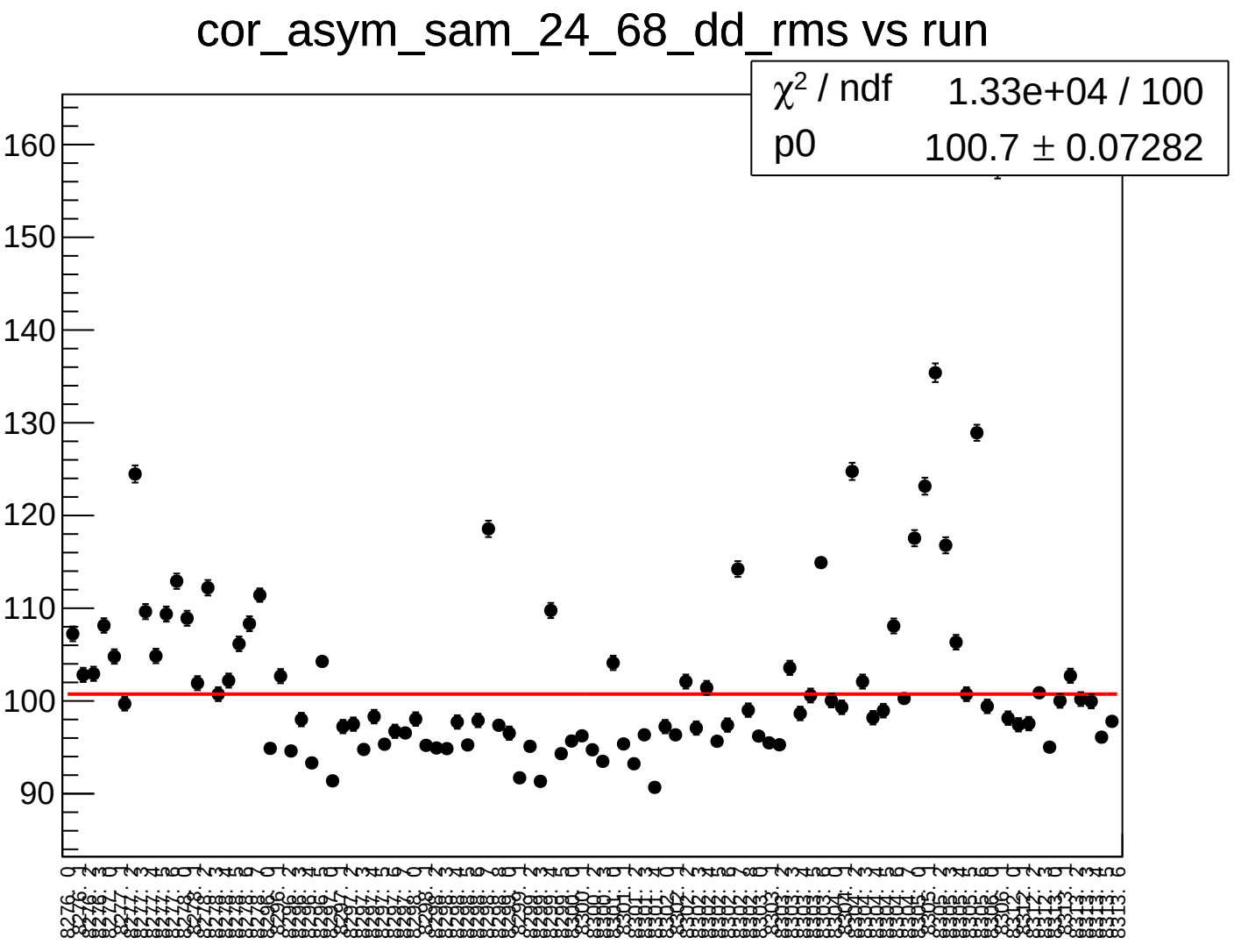

asym_sam_24_68_dd_reg_correction_mean vs run
χ^2 / ndf 101.3 / 100
p0 −922.5 ± 2415
×10^3
100
50
0
−50
−100
pull
Entries 101
Mean −863.9
Std Dev 0
3
2
1
0
−1
−2

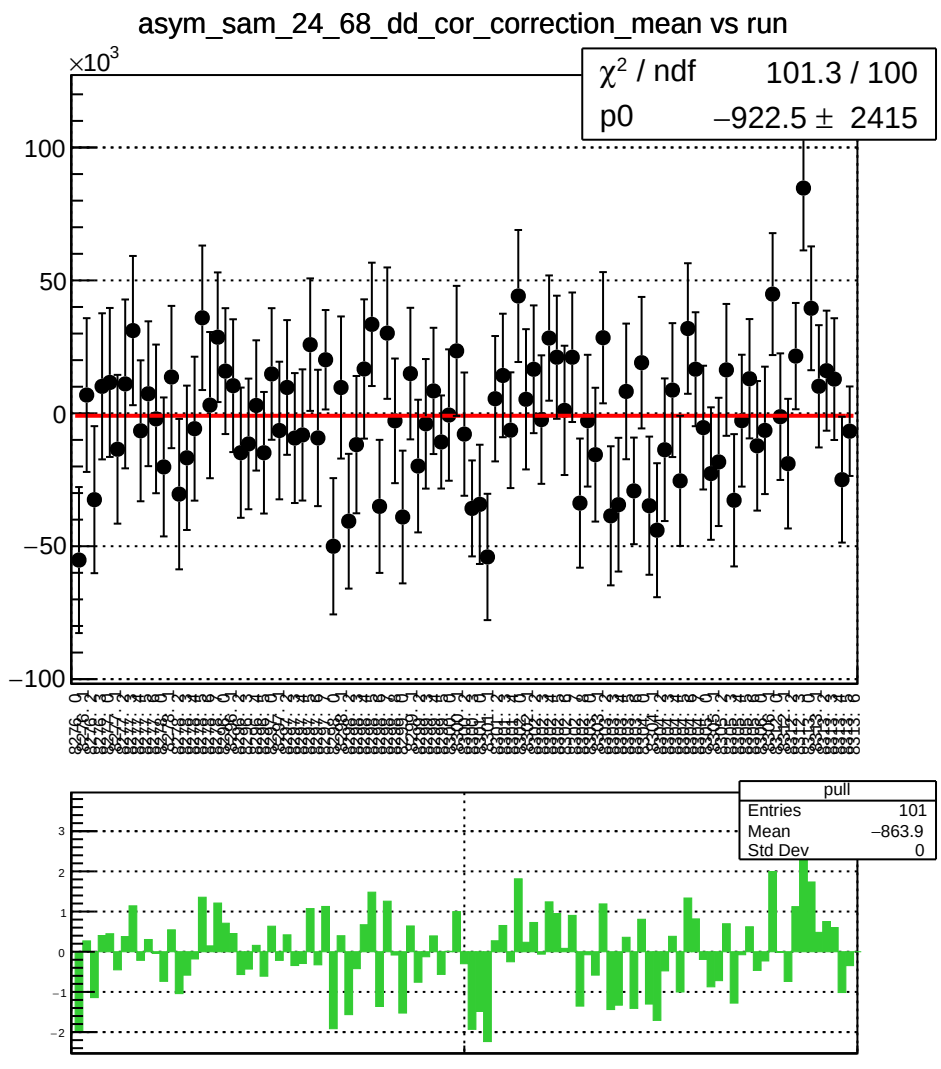

pull1D
Entries 101
Mean −0.002761
Std Dev 1.001
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

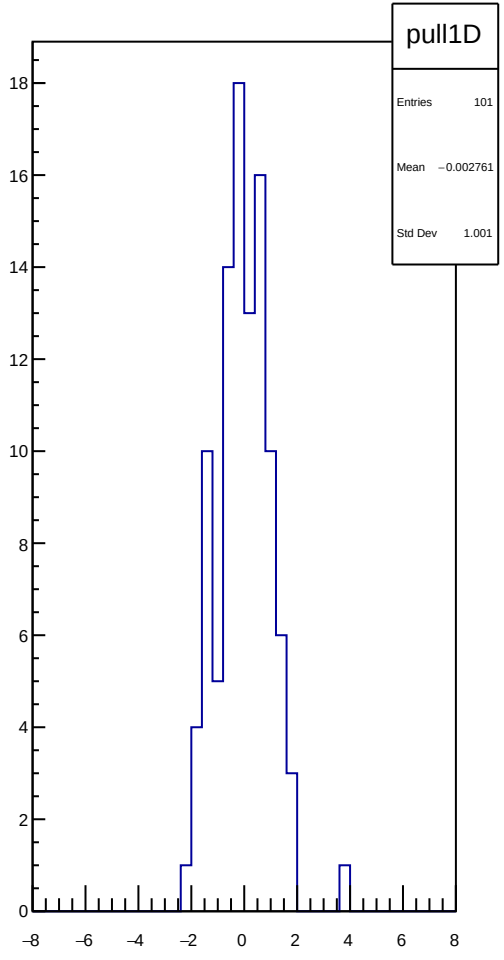

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 7118 / 100
p0 2366 ± 1.708
3000
2800
2600
2400
2200

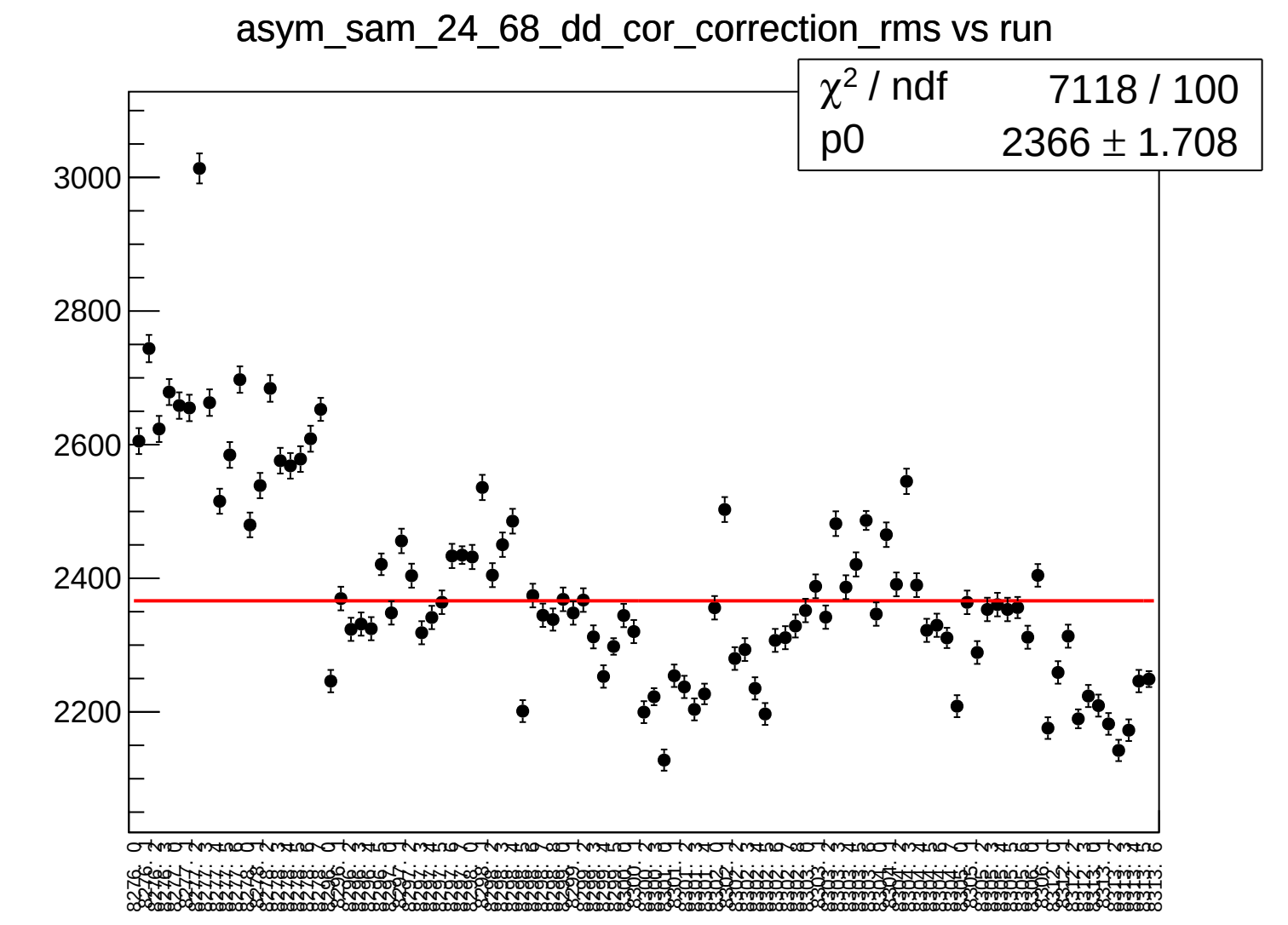

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 95.9 / 100
p0 −75.5 ± 103
pull
Entries 101
Mean 197.8
Std Dev 0

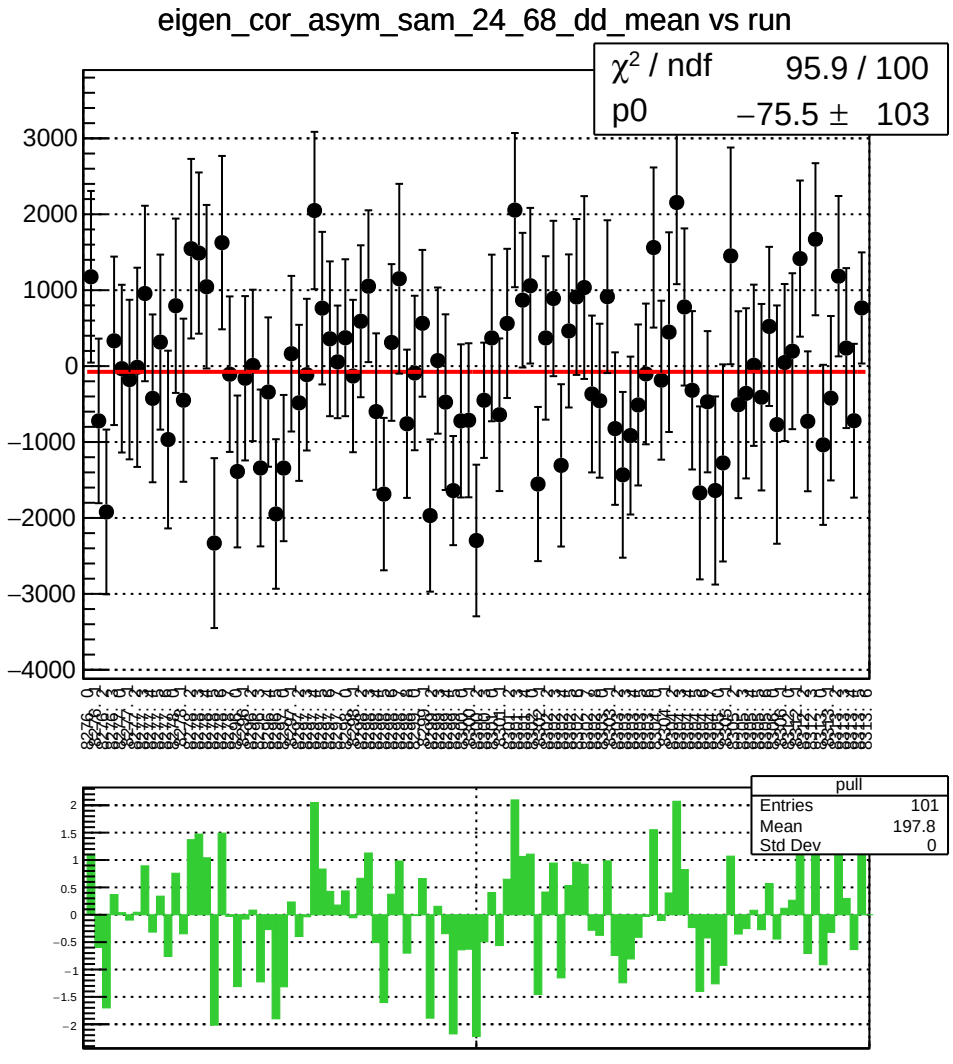

pull1D
Entries 101
Mean 0.01011
Std Dev 0.9744

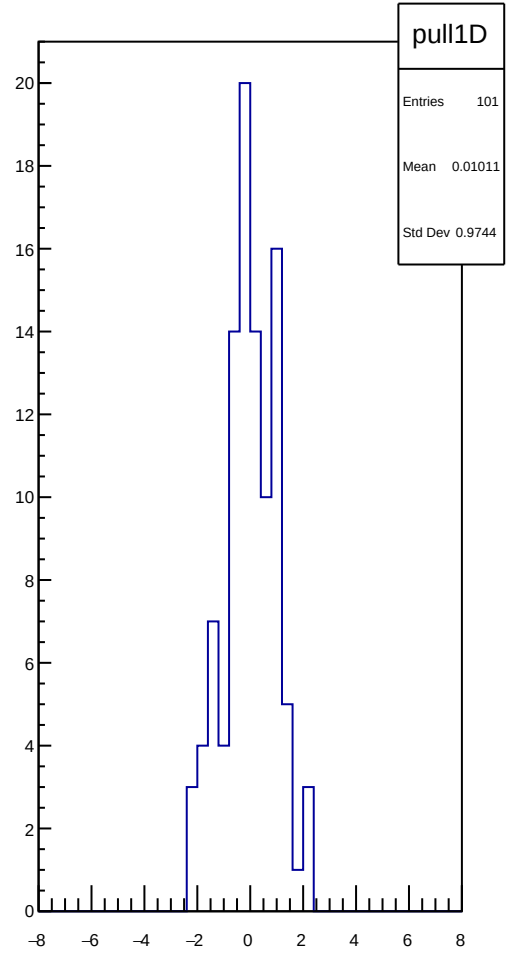

cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.33e+04 / 100
p0 100.7 ± 0.07282
160
150
140
130
120
110
100
90

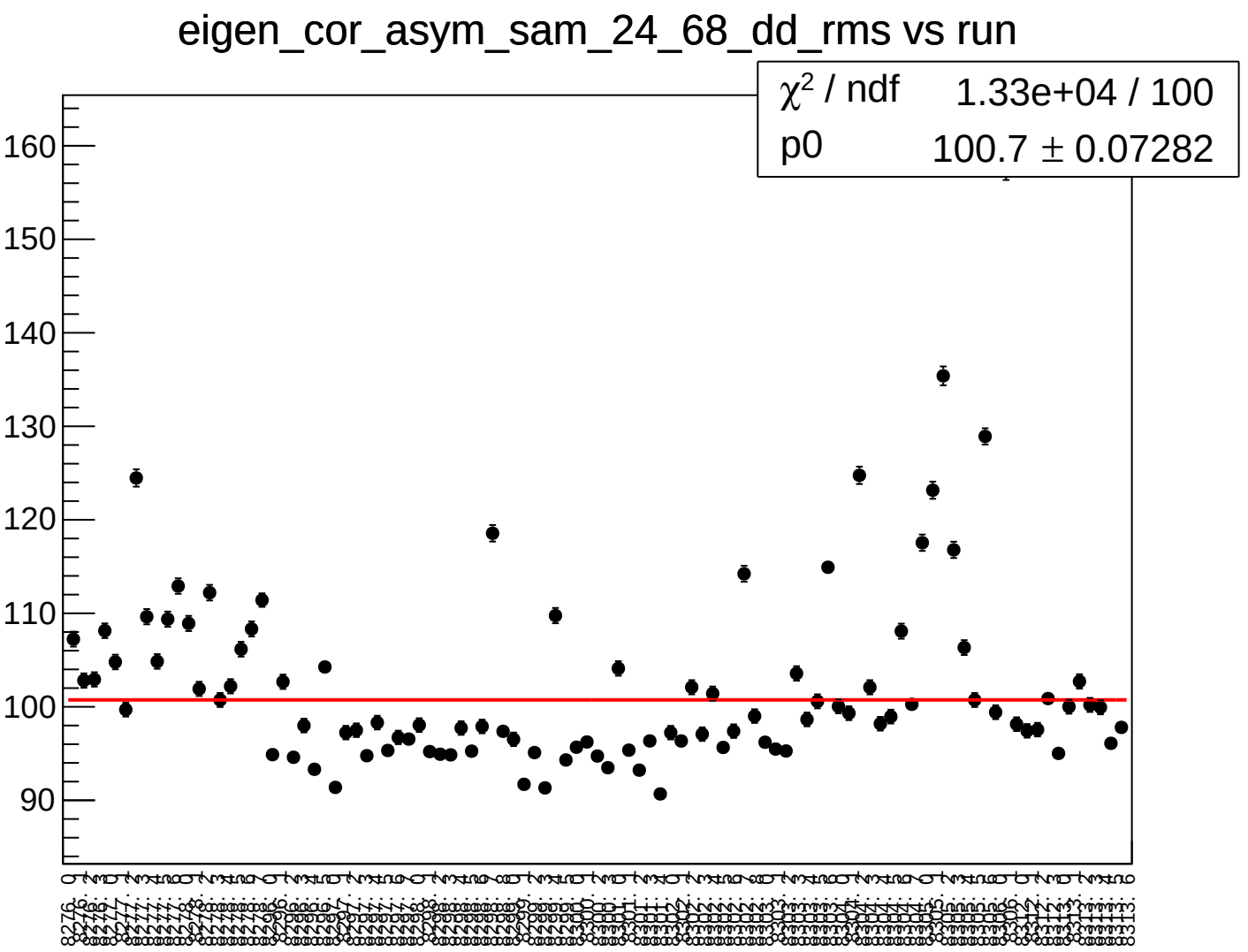

asym_sam_24_68_dd_cor_correction_mean vs run
χ² / ndf 101.3 / 100
p0 −922.5 ± 2415
×10³
pull
Entries 101
Mean −863.9
Std Dev 0

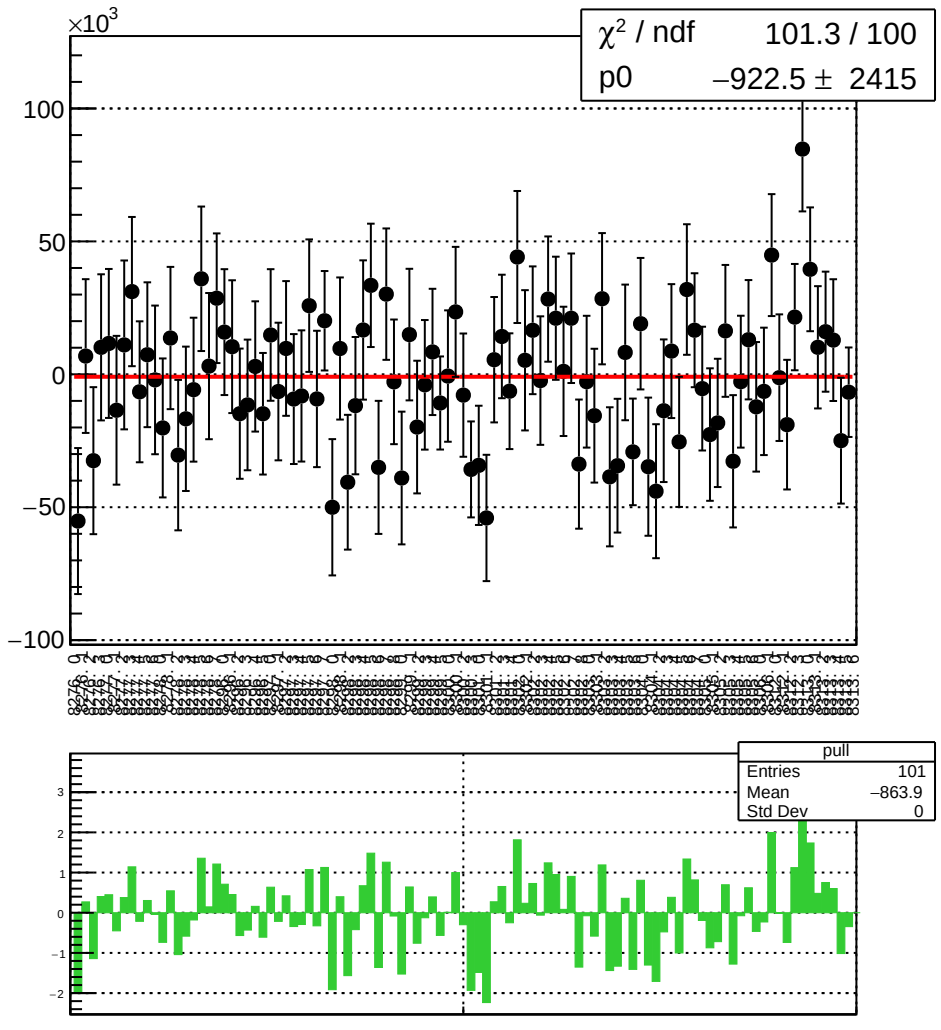

pull1D
Entries 101
Mean −0.002761
Std Dev 1.001

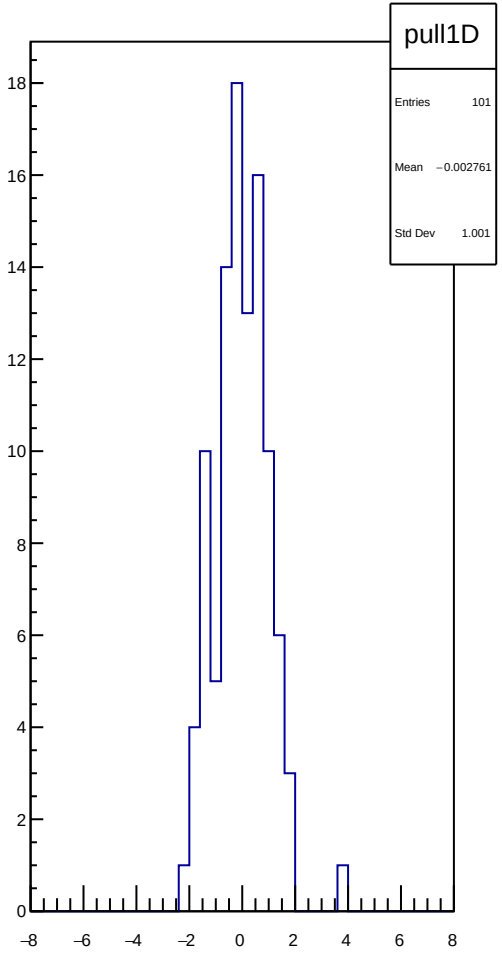

asym_sam_24_68_dd_cor_correction_rms vs run
χ^2 / ndf 7118 / 100
p0 2366 ± 1.708
3000
2800
2600
2400
2200

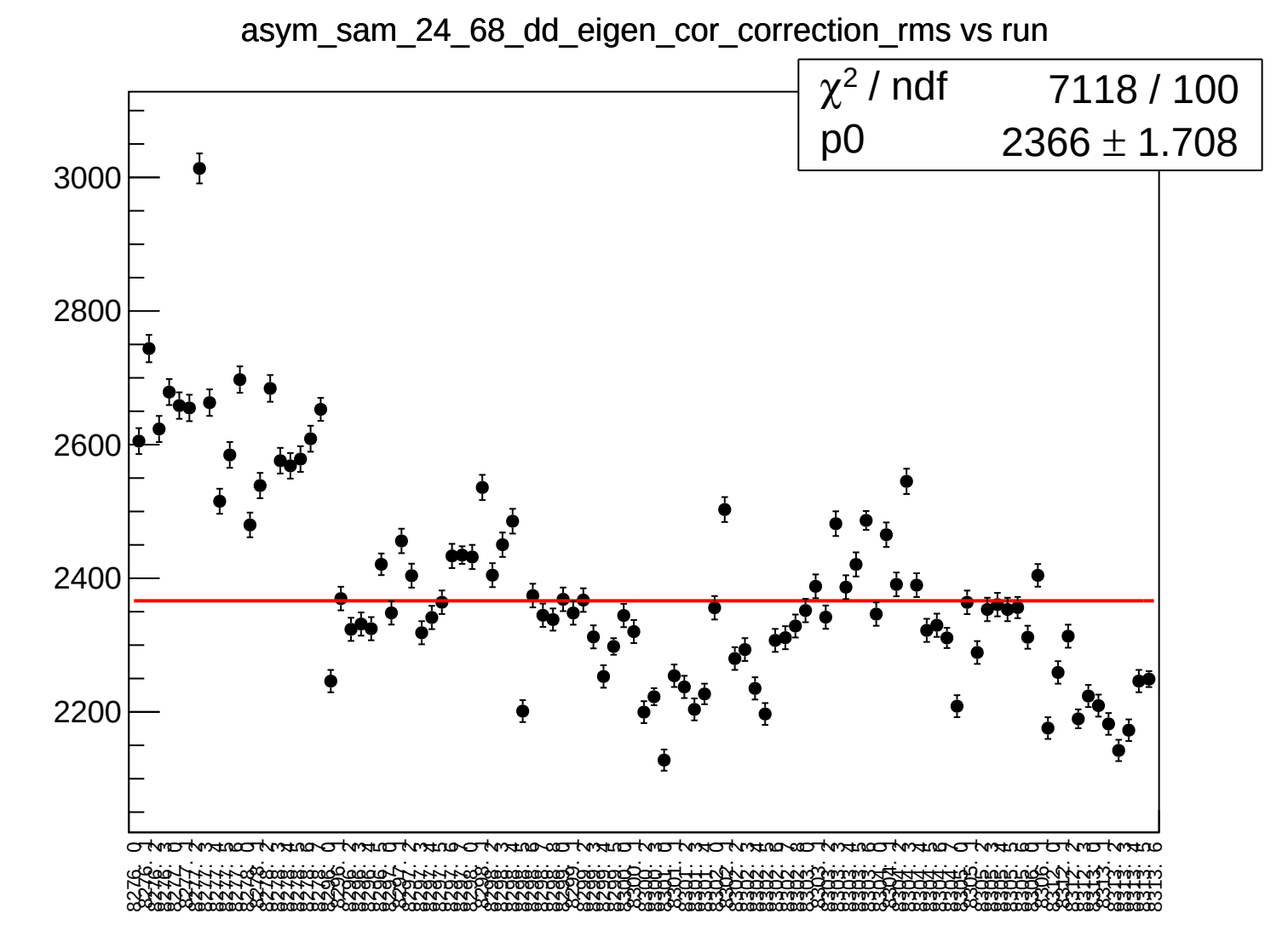

eigen_cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 95.9 / 100
p0 −75.5 ± 103
pull
Entries 101
Mean 197.8
Std Dev 0

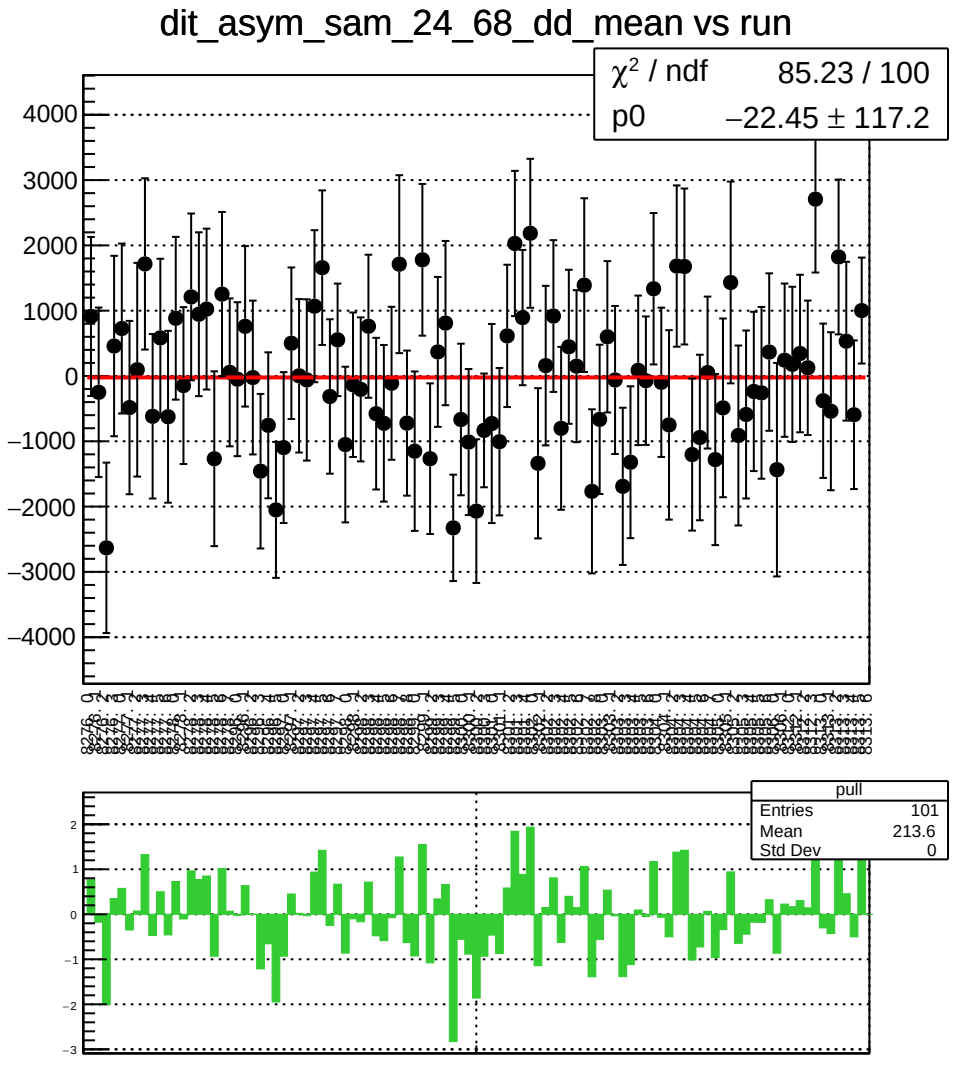

pull1D
Entries 101
Mean 0.01011
Std Dev 0.9744

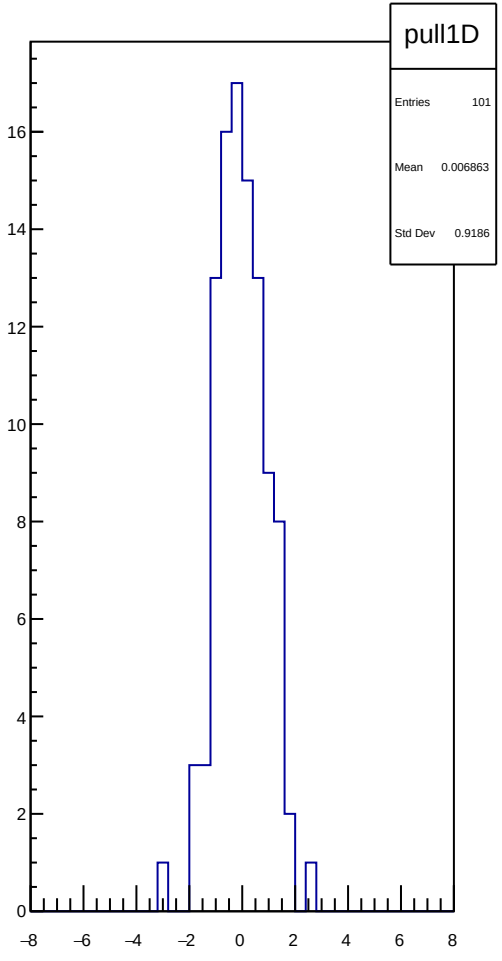

eigen_cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.33e+04 / 100
p0 100.7 ± 0.07282
160
150
140
130
120
110
100
90

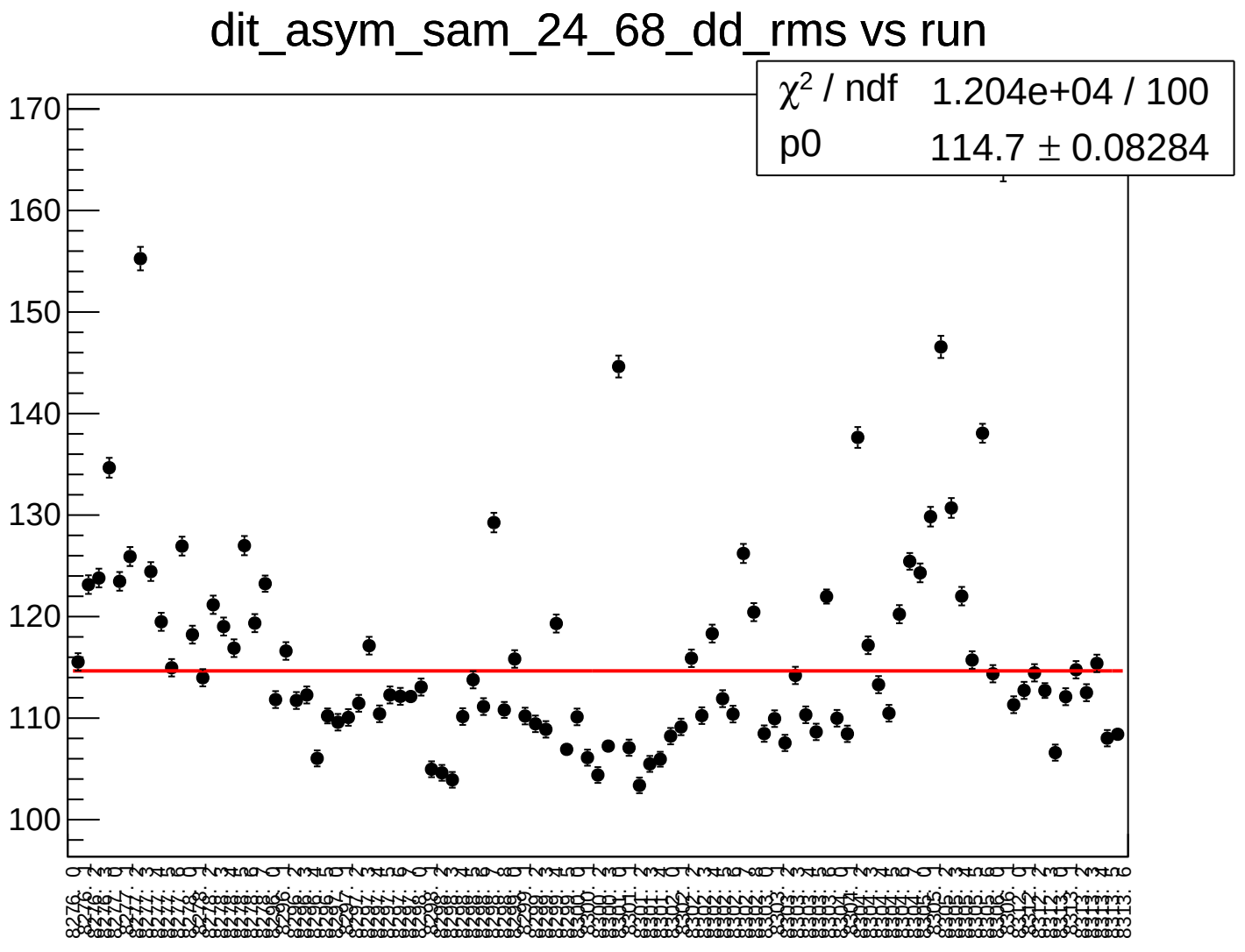

asym_sam_24_68_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 101.3 / 100
p0 −922.5 ± 2415
100
50
0
−50
−100
pull
Entries 101
Mean −863.9
Std Dev 0
3
2
1
0
−1
−2

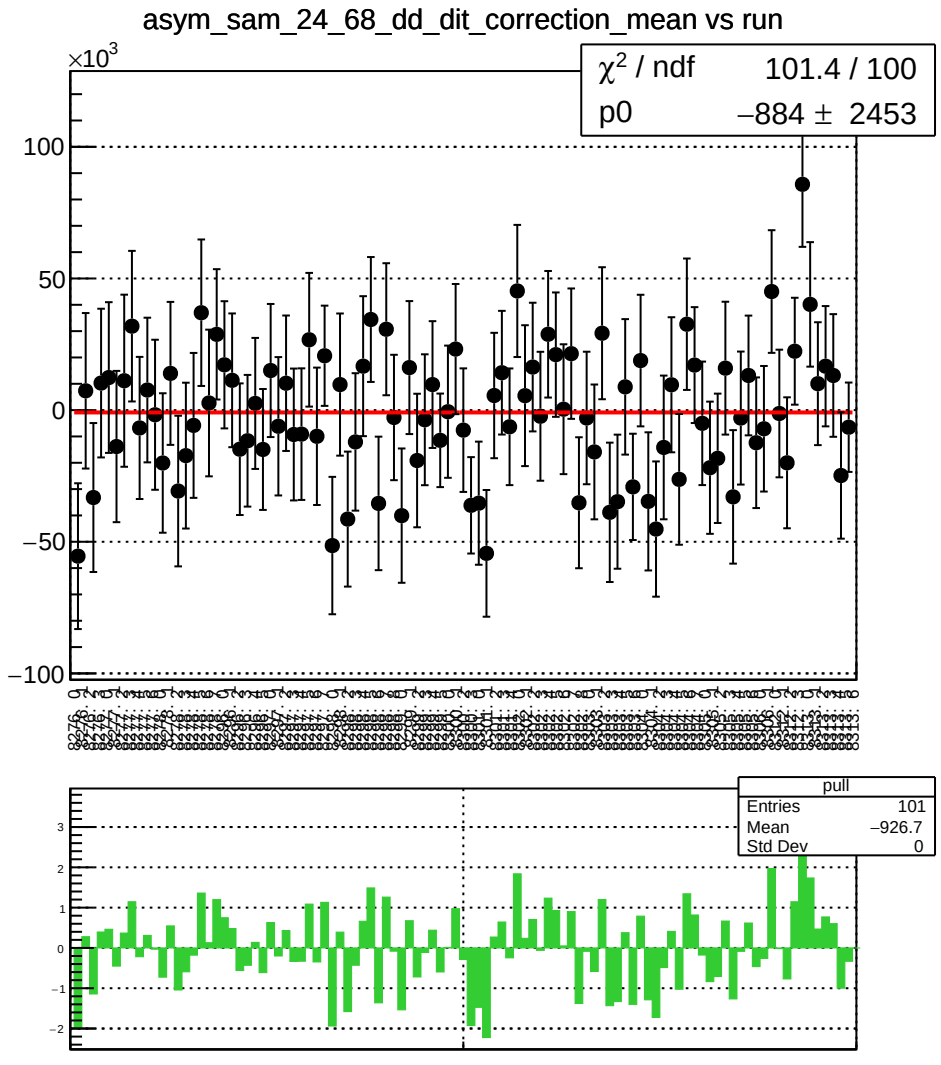

pull1D
Entries 101
Mean −0.002761
Std Dev 1.001
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

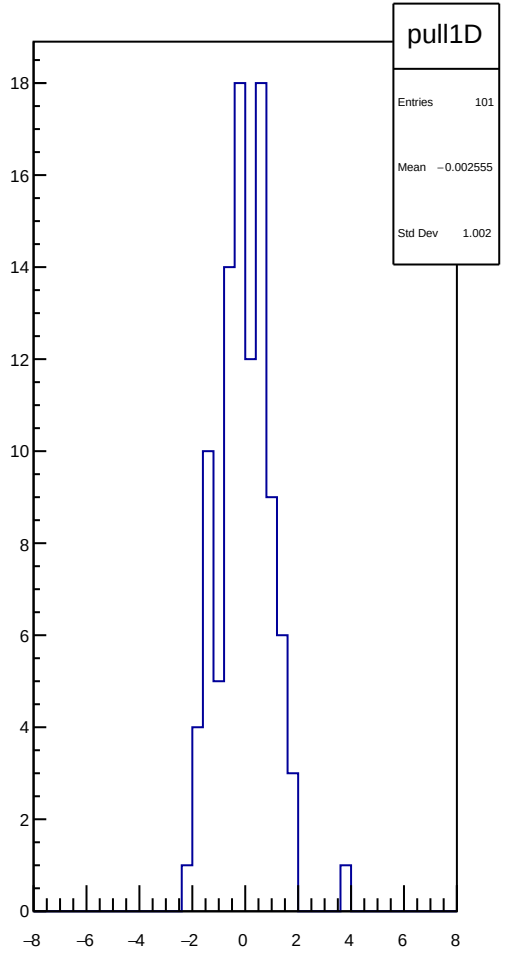

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 7118 / 100
p0 2366 ± 1.708
3000
2800
2600
2400
2200

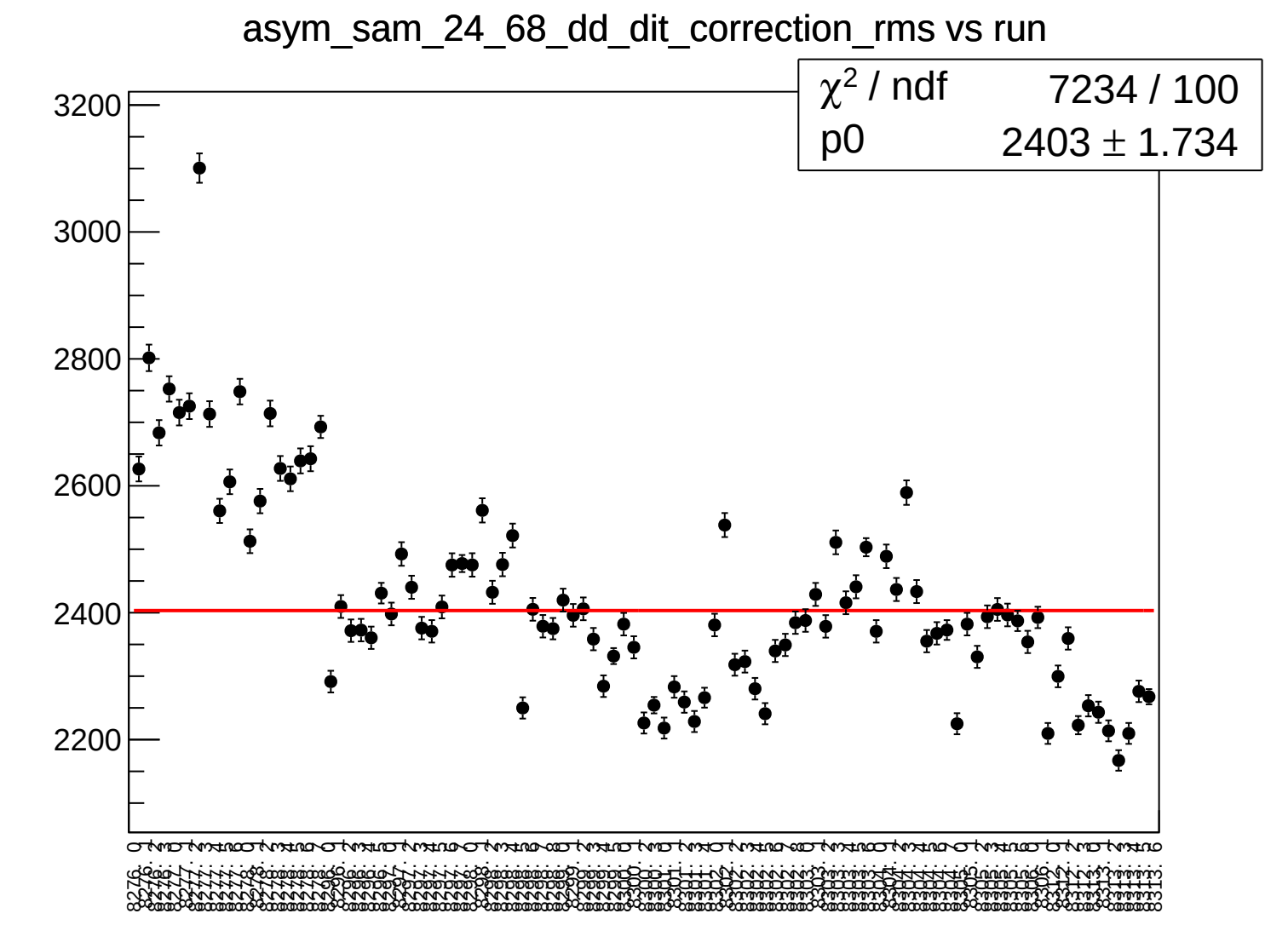

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 85.23 / 100
p0 −22.45 ± 117.2
pull
Entries 101
Mean 213.6
Std Dev 0

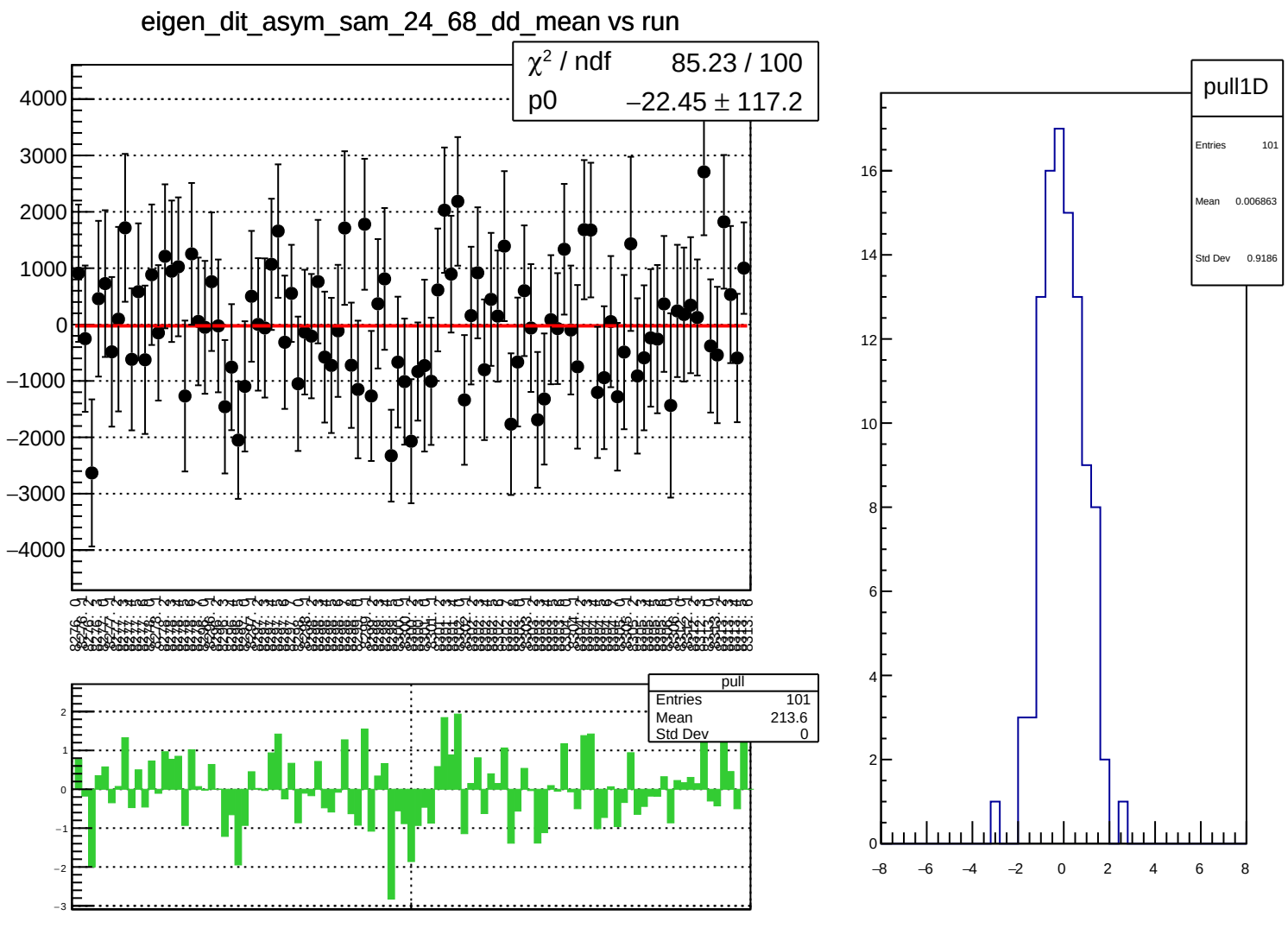

pull1D
Entries 101
Mean 0.006863
Std Dev 0.9186

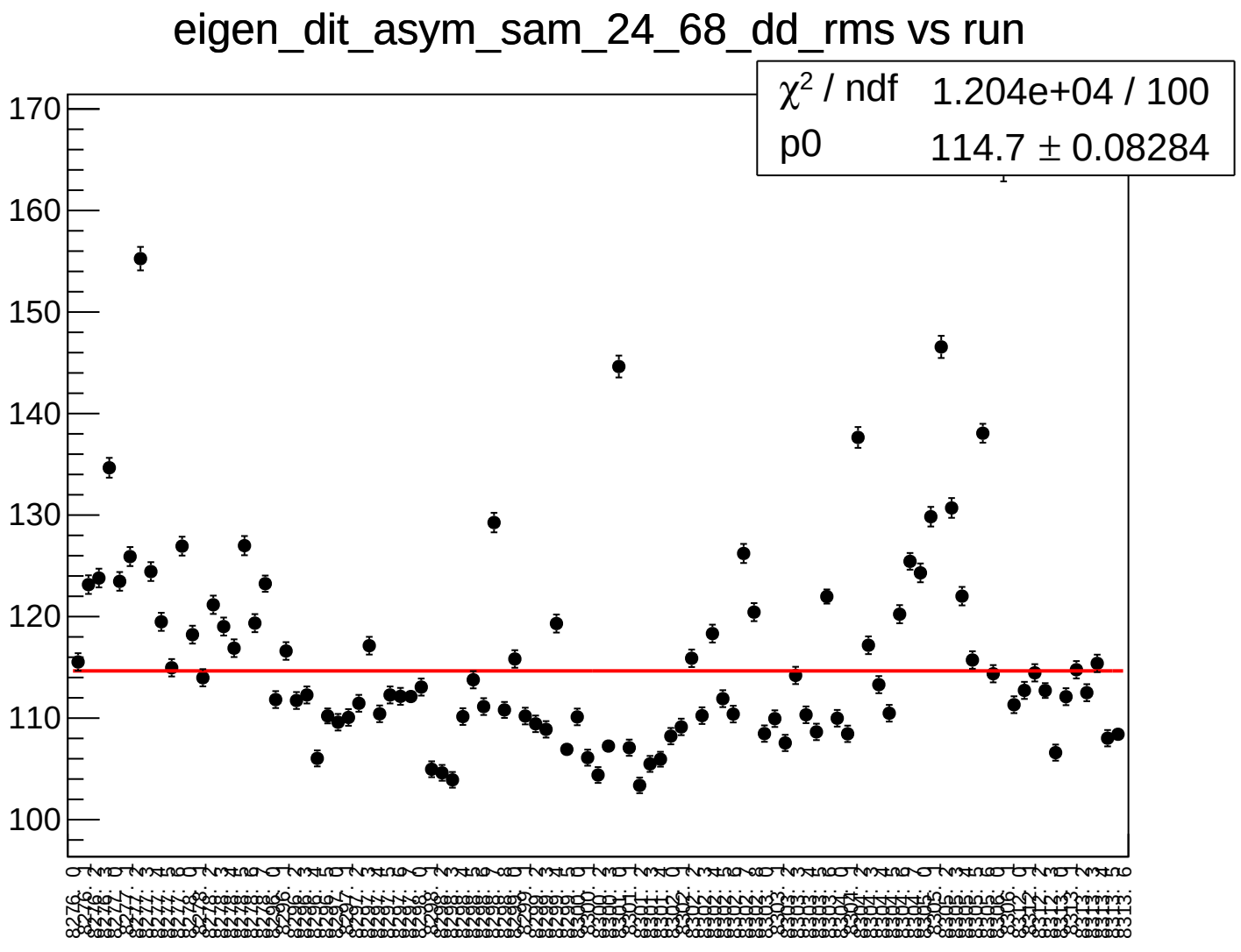

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.204e+04 / 100
p0 114.7 ± 0.08284
170
160
150
140
130
120
110
100

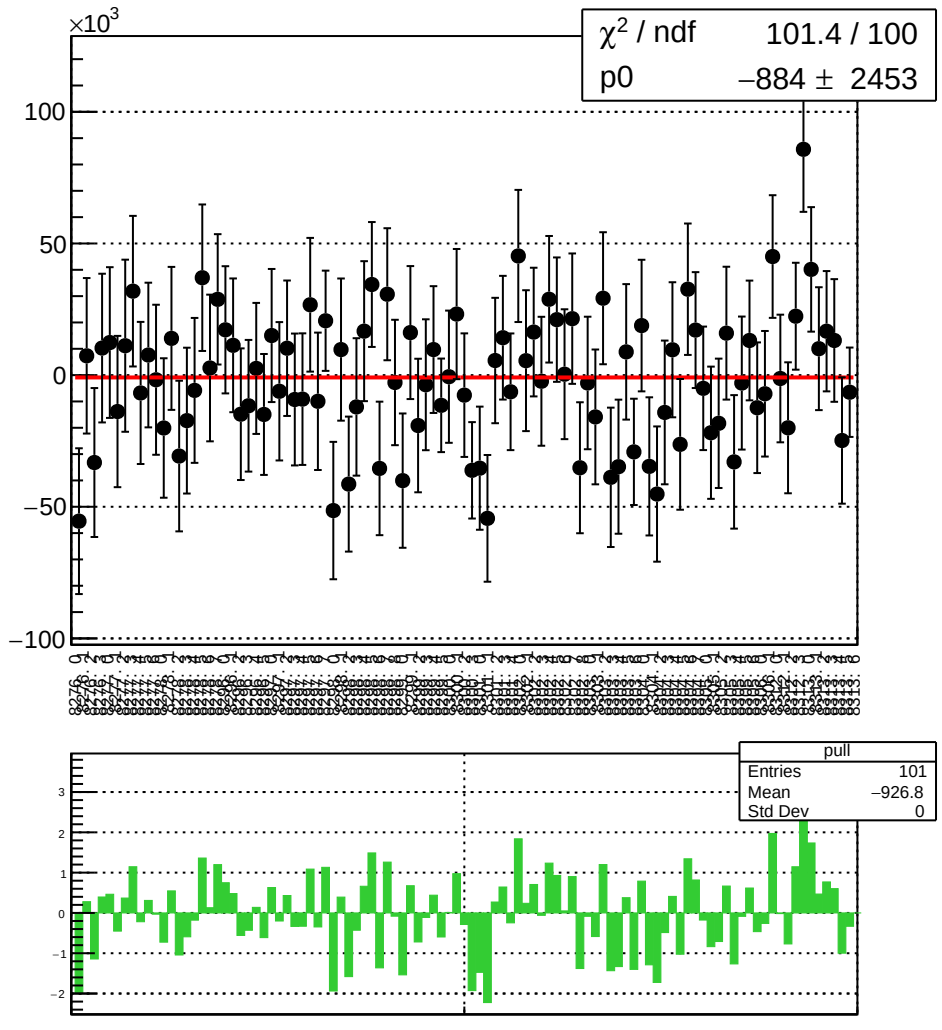

asym_sam_24_68_dd_dit_correction_mean vs run
χ² / ndf 101.4 / 100
p0 −884 ± 2453
×10³
100
50
0
−50
−100
pull
Entries 101
Mean −926.7
Std Dev 0
3
2
1
0
−1
−2

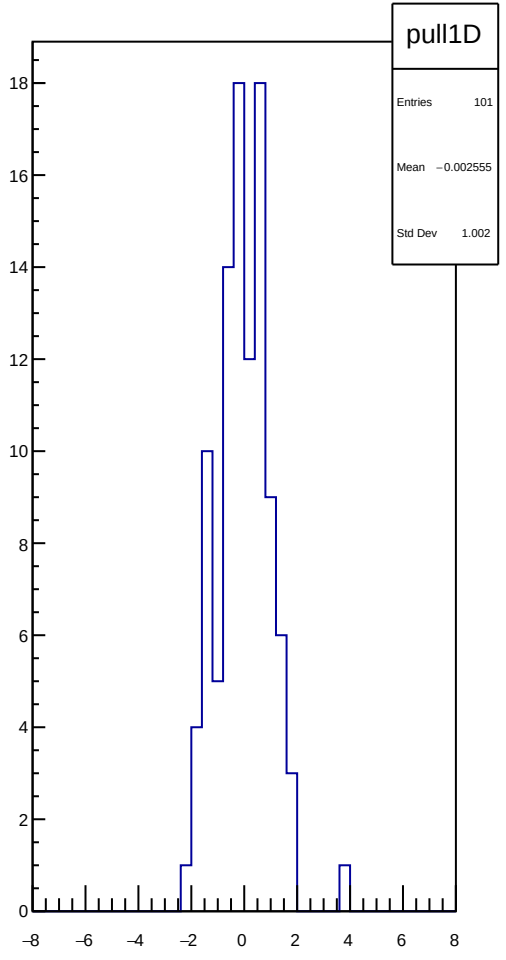

pull1D
Entries 101
Mean −0.002555
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

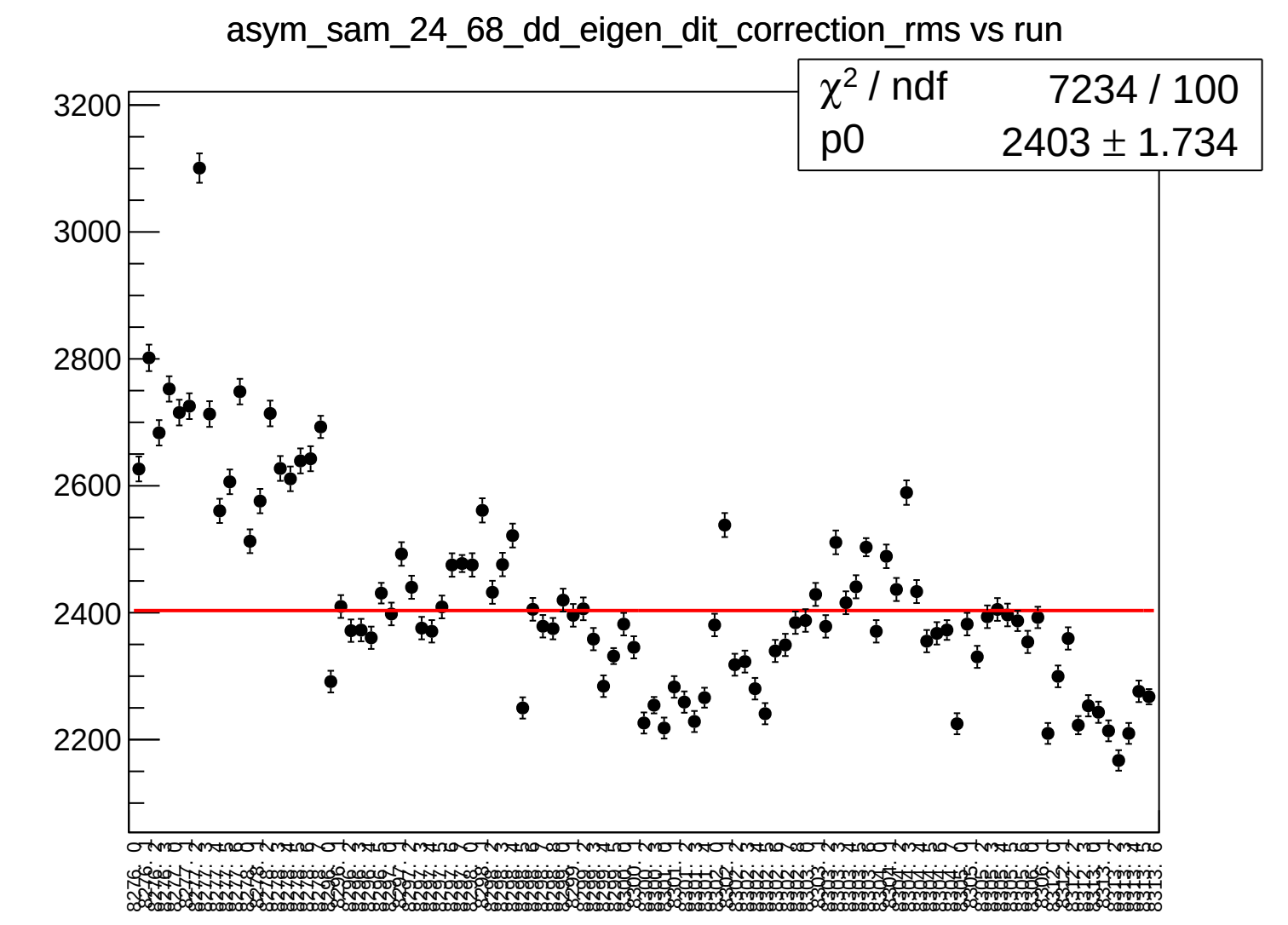

asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 7234 / 100
p0 2403 ± 1.734
3200
3000
2800
2600
2400
2200

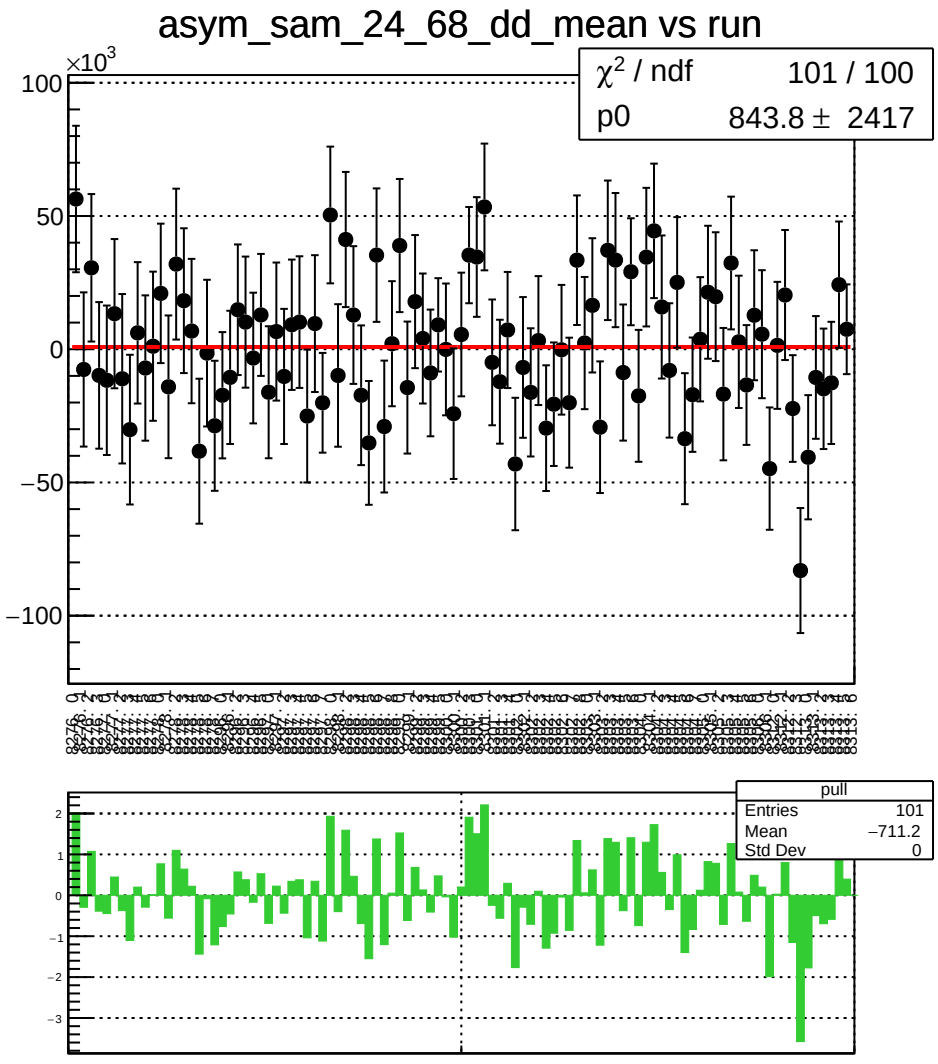

eigen_dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 85.23 / 100
p0 −22.45 ± 117.2
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 101
Mean 213.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.006863
Std Dev 0.9186
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

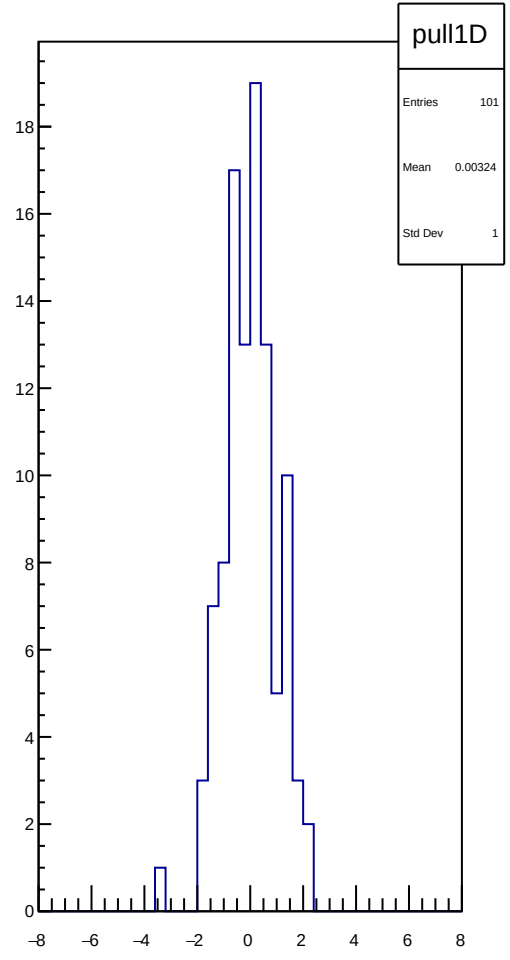

eigen_dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.204e+04 / 100
p0 114.7 ± 0.08284
170
160
150
140
130
120
110
100

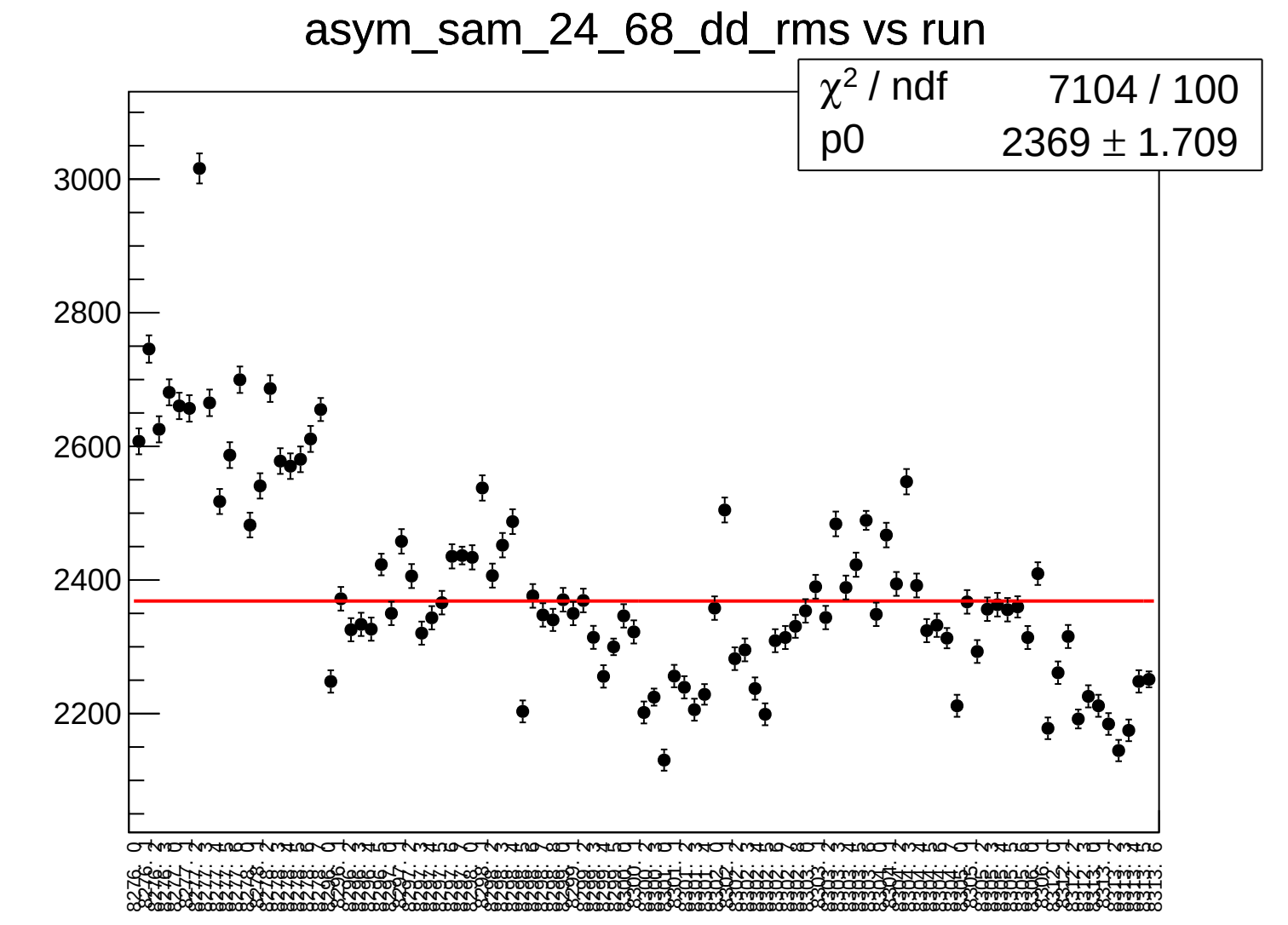

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
χ² / ndf 101.4 / 100
p0 −884 ± 2453
×10³
100
50
0
−50
−100
pull
Entries 101
Mean −926.8
Std Dev 0
3
2
1
0
−1
−2

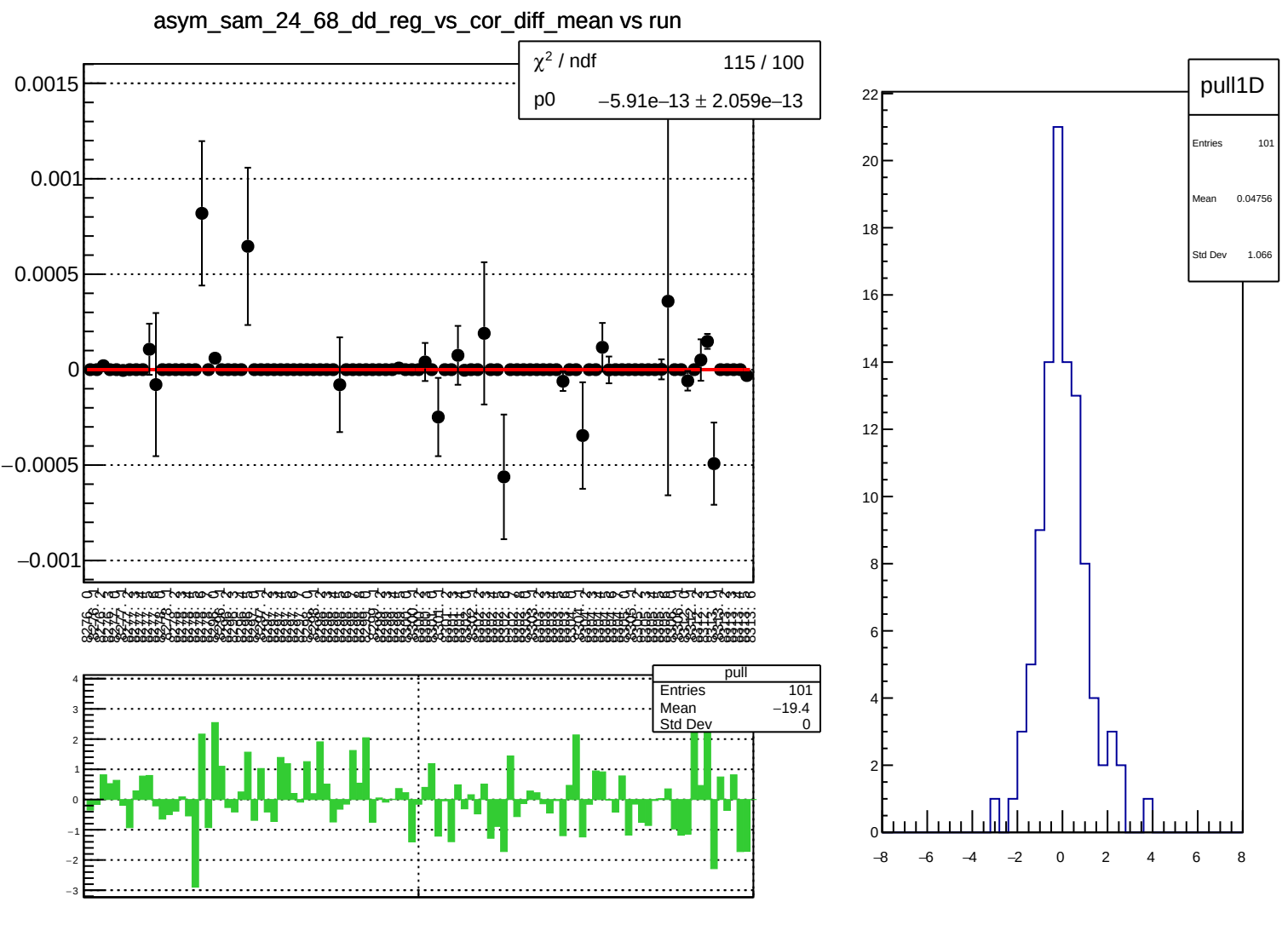

pull1D
Entries 101
Mean −0.002555
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

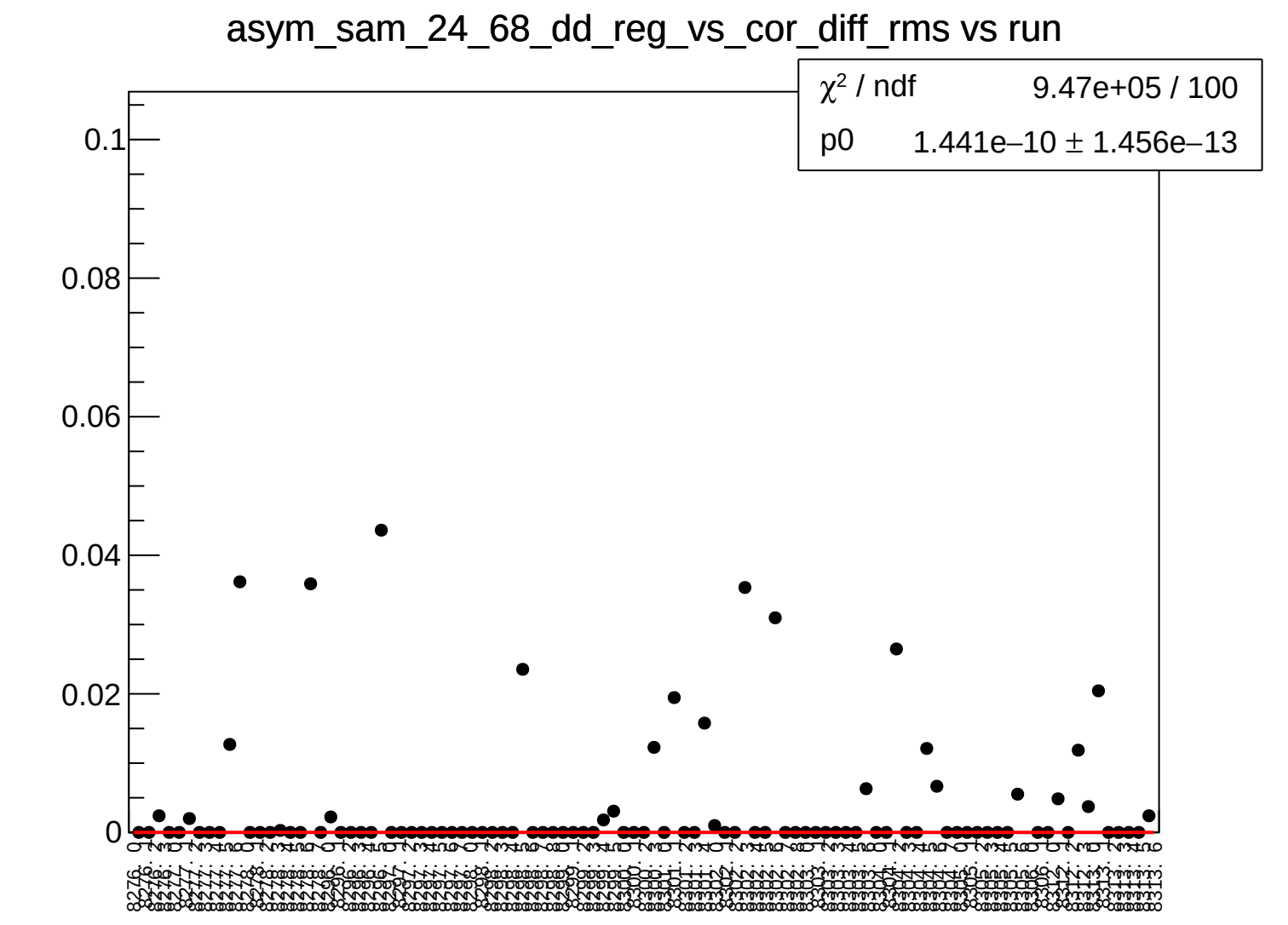

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 7234 / 100
p0 2403 ± 1.734
3200
3000
2800
2600
2400
2200

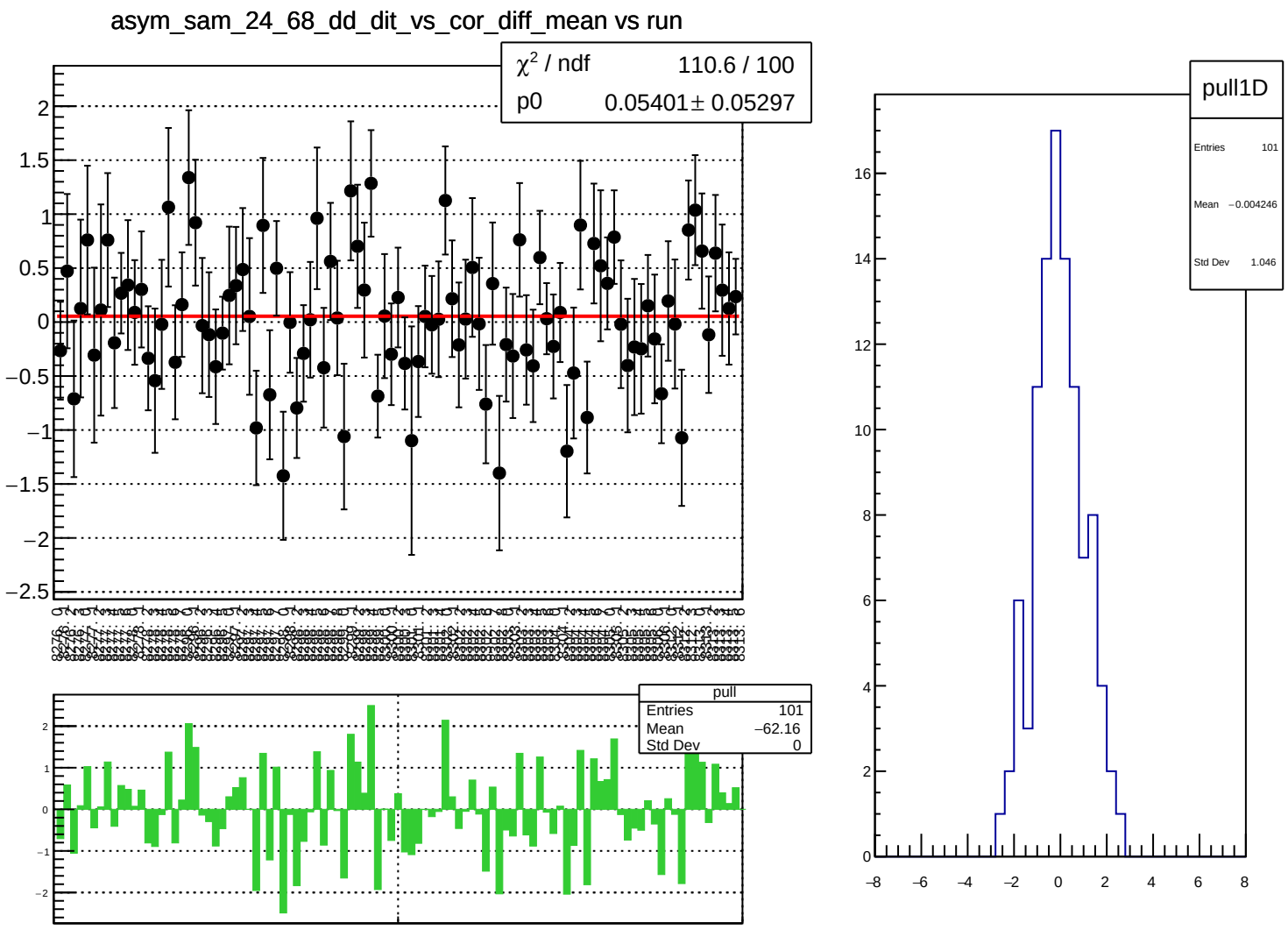

asym_sam_24_68_dd_mean vs run
×10^3
χ^2 / ndf 101 / 100
p0 843.8 ± 2417
pull
Entries 101
Mean −711.2
Std Dev 0

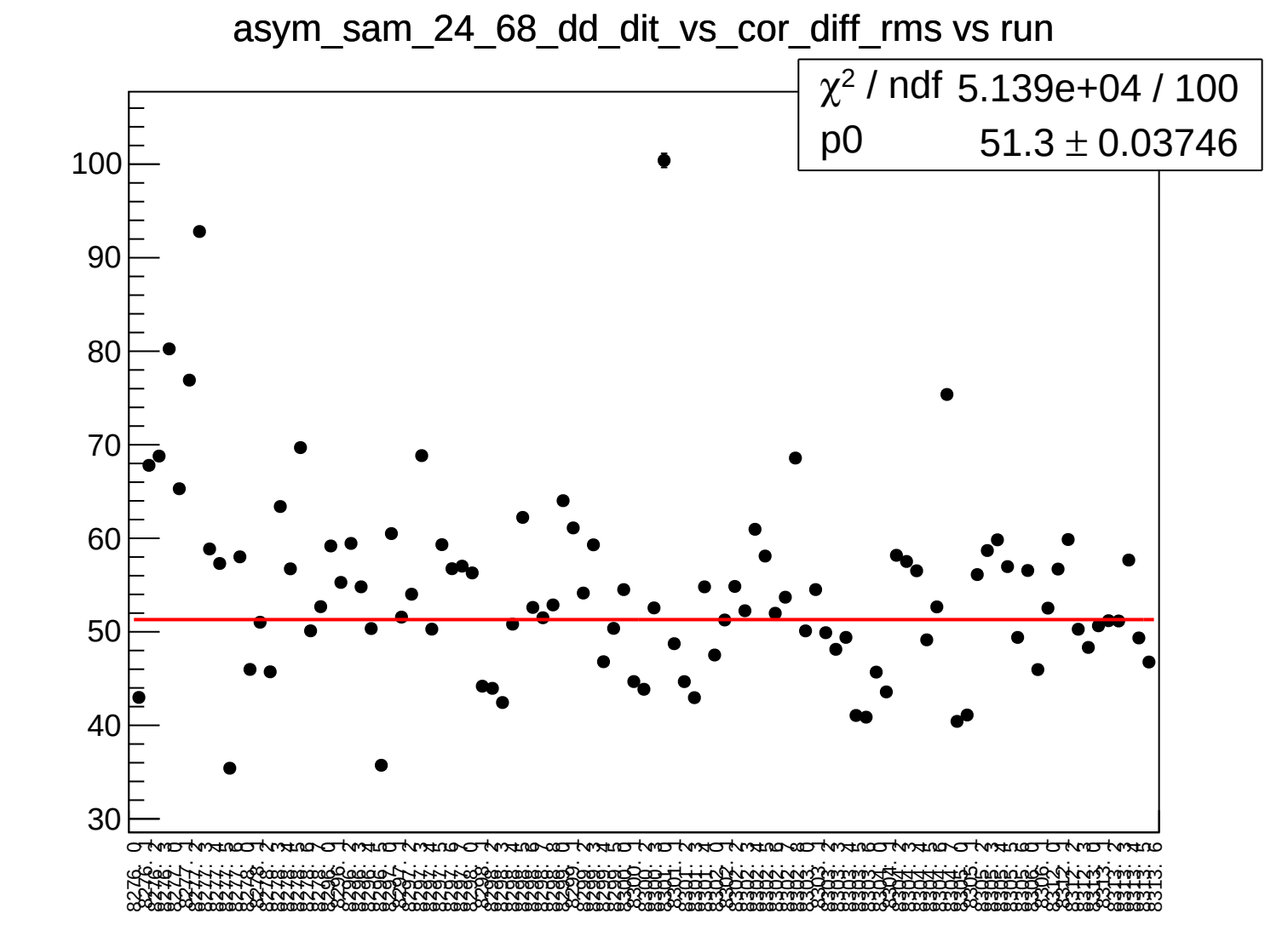

pull1D
Entries 101
Mean 0.00324
Std Dev 1

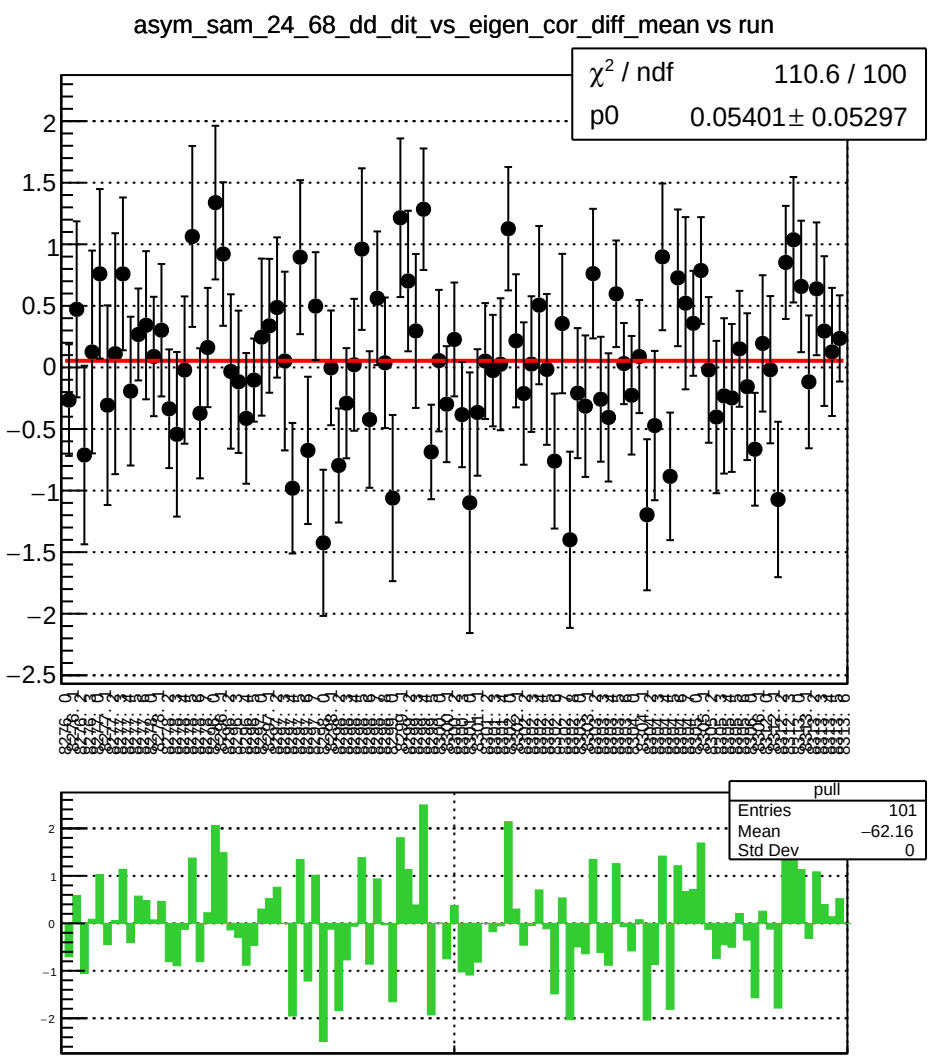

asym_sam_24_68_dd_rms vs run
χ^2 / ndf 7104 / 100
p0 2369 ± 1.709
3000
2800
2600
2400
2200

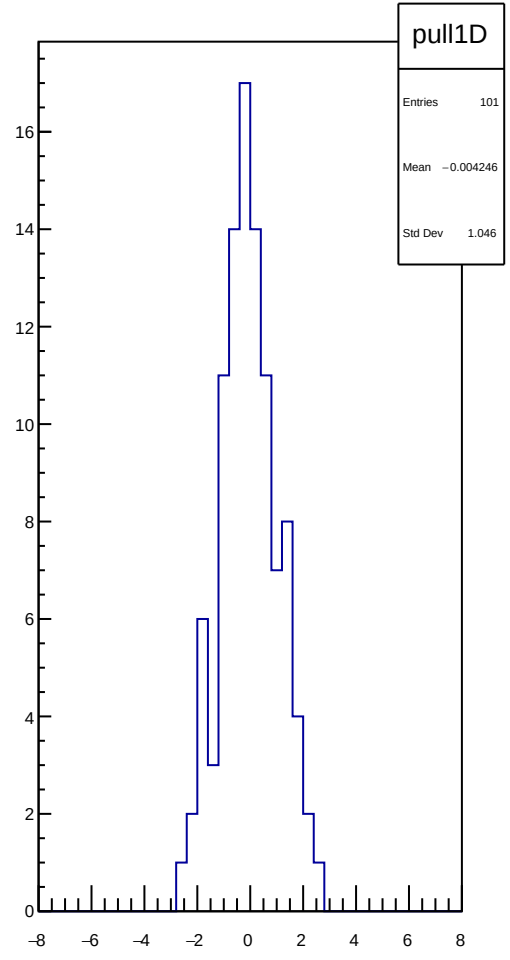

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 115 / 100
p0 −5.91e−13 ± 2.059e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 101
Mean −19.4
Std Dev 0
pull1D
Entries 101
Mean 0.04756
Std Dev 1.066

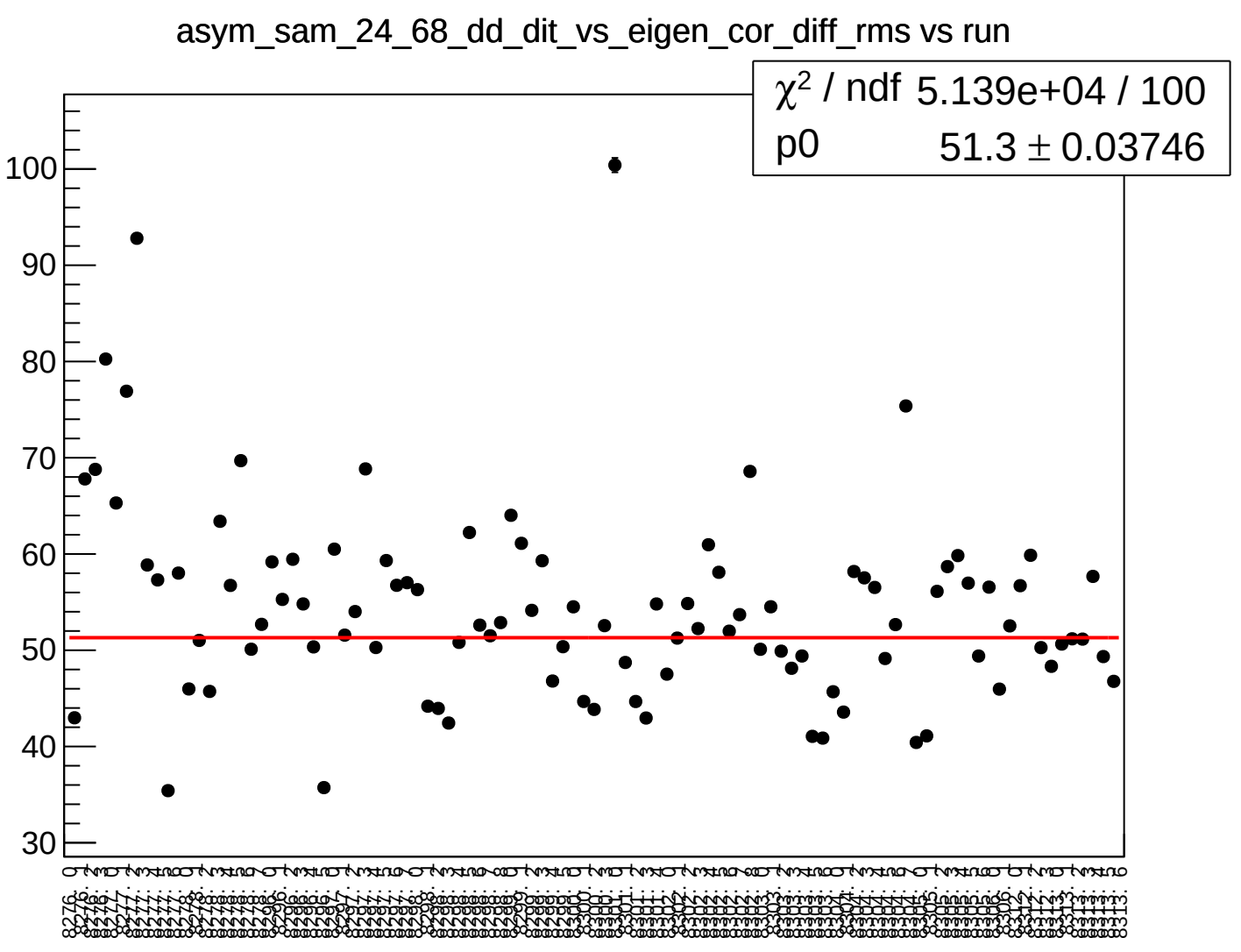

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.47e+05 / 100
p0 1.441e−10 ± 1.456e−13
0.1
0.08
0.06
0.04
0.02
0

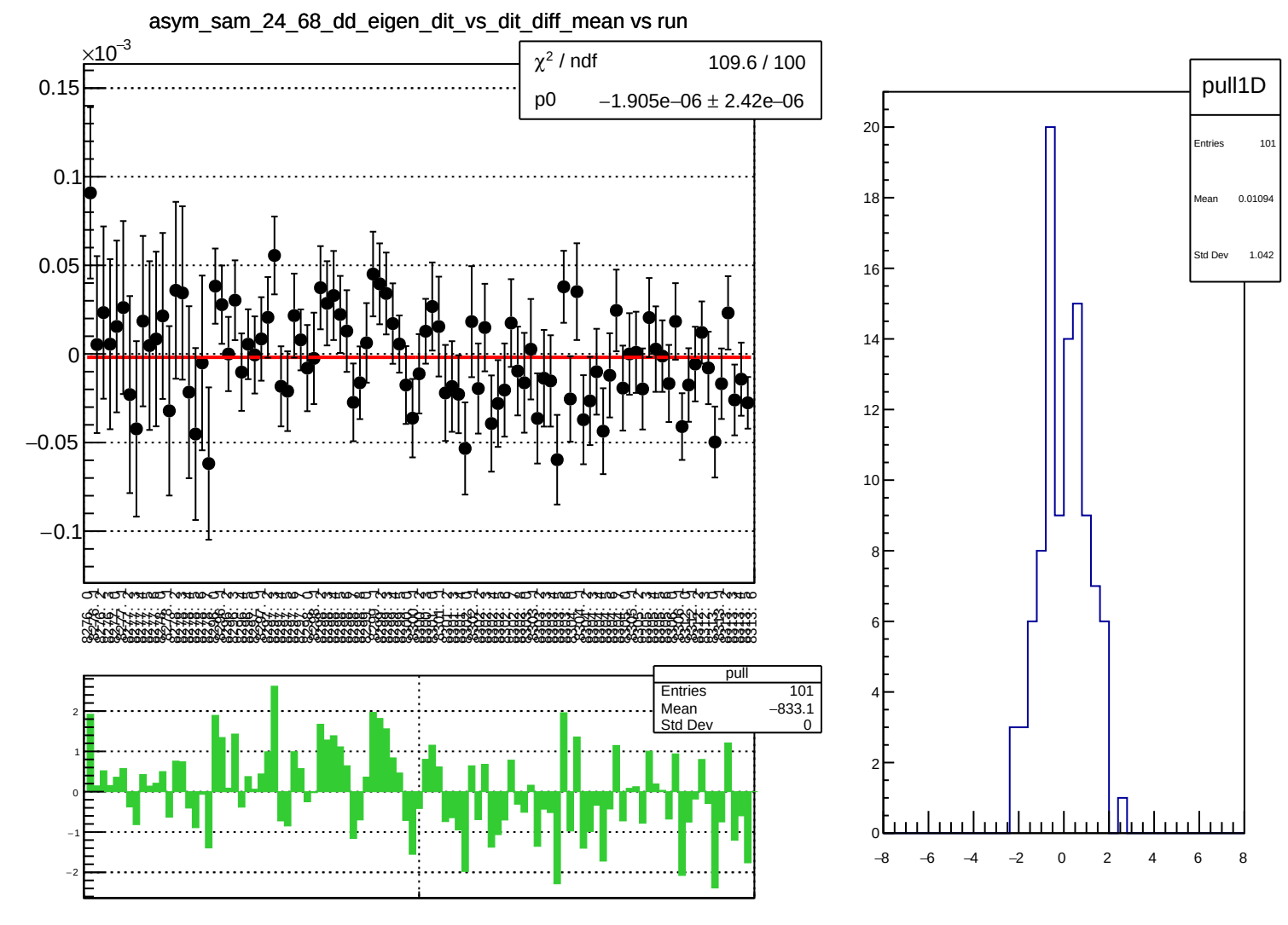

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 110.6 / 100
p0 0.05401 ± 0.05297
pull
Entries 101
Mean −62.16
Std Dev 0
pull1D
Entries 101
Mean −0.004246
Std Dev 1.046

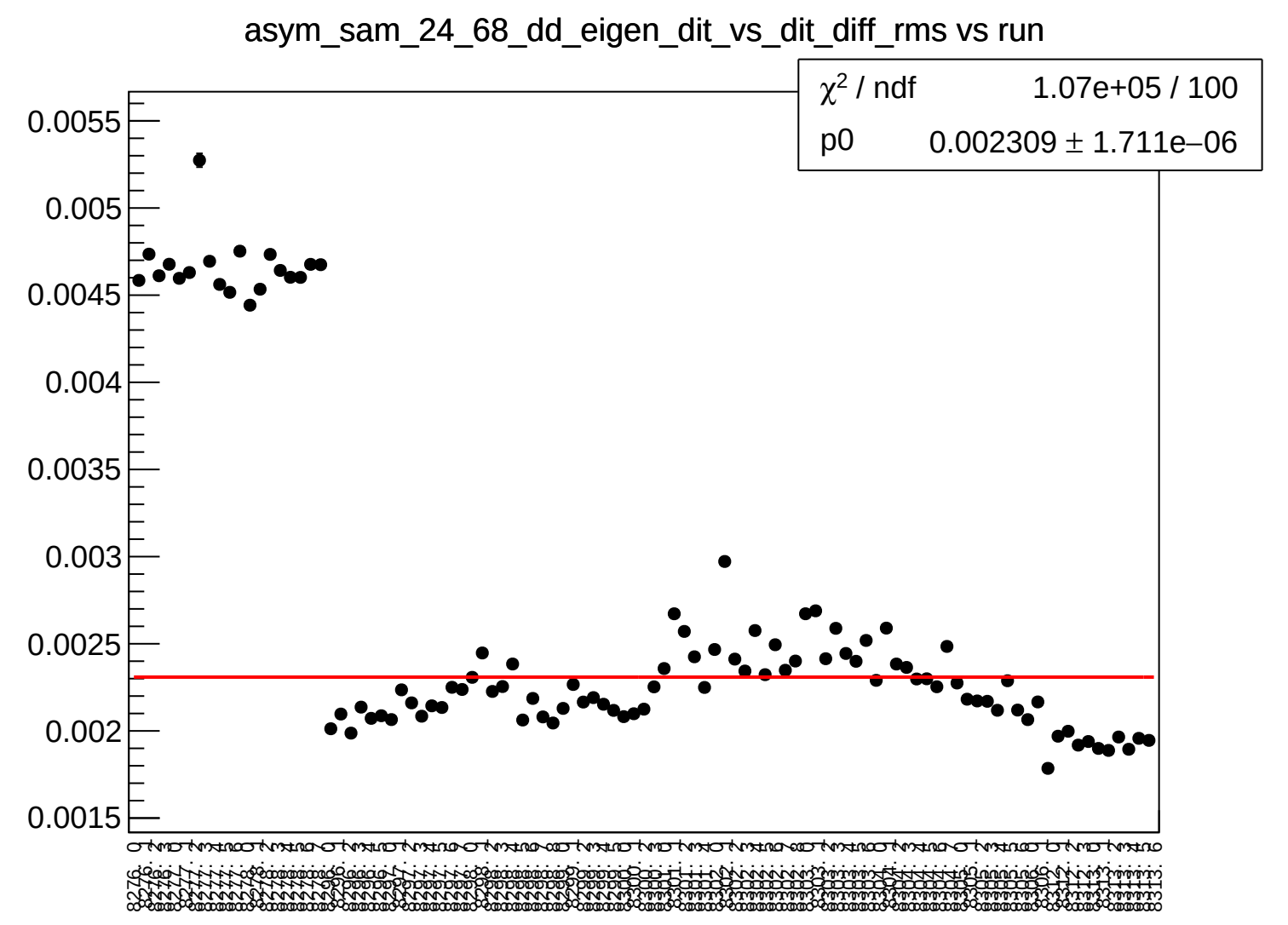

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.139e+04 / 100
p0 51.3 ± 0.03746
100
90
80
70
60
50
40
30

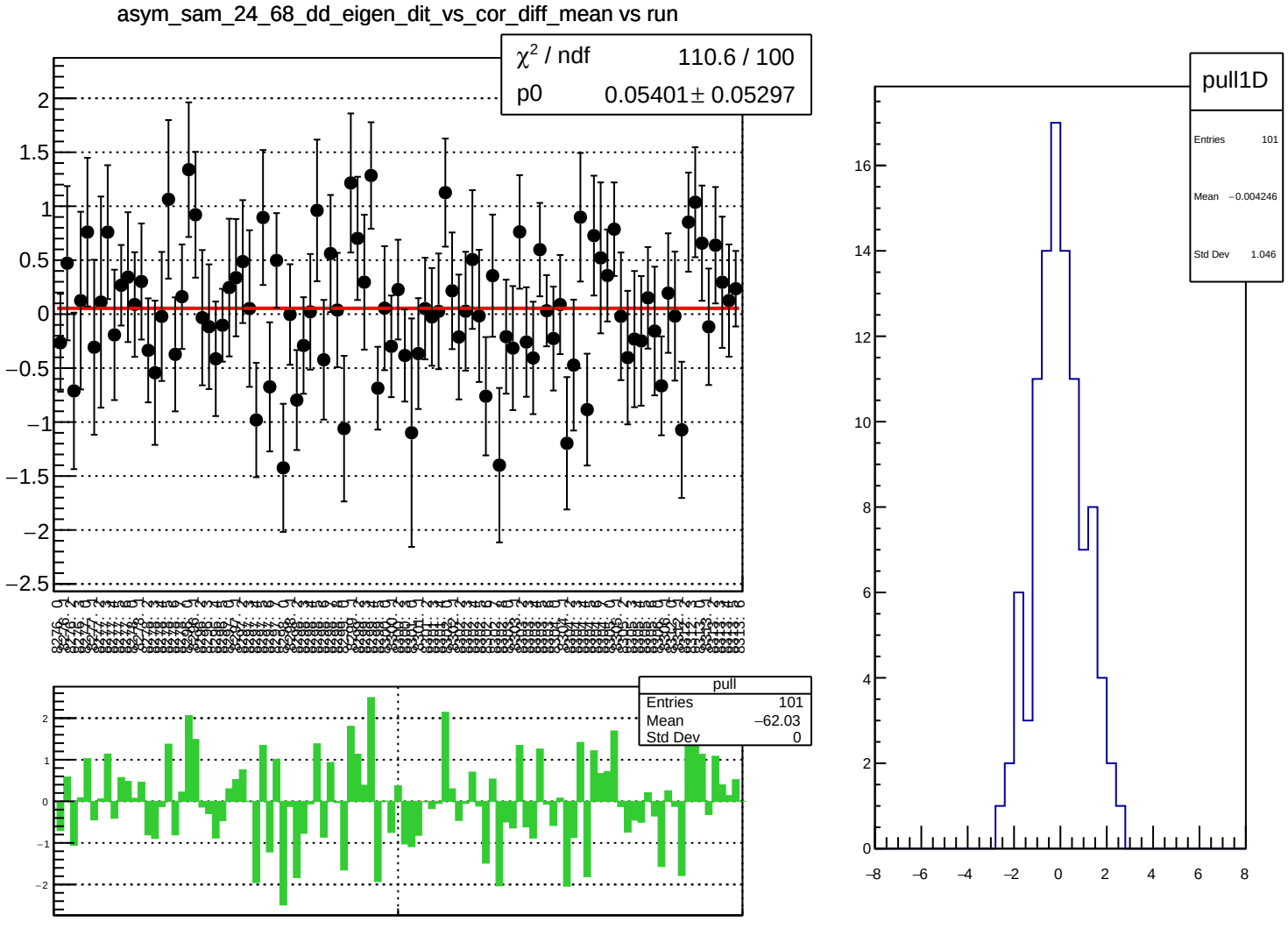

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 110.6 / 100
p0 0.05401 ± 0.05297
pull
Entries 101
Mean −62.16
Std Dev 0

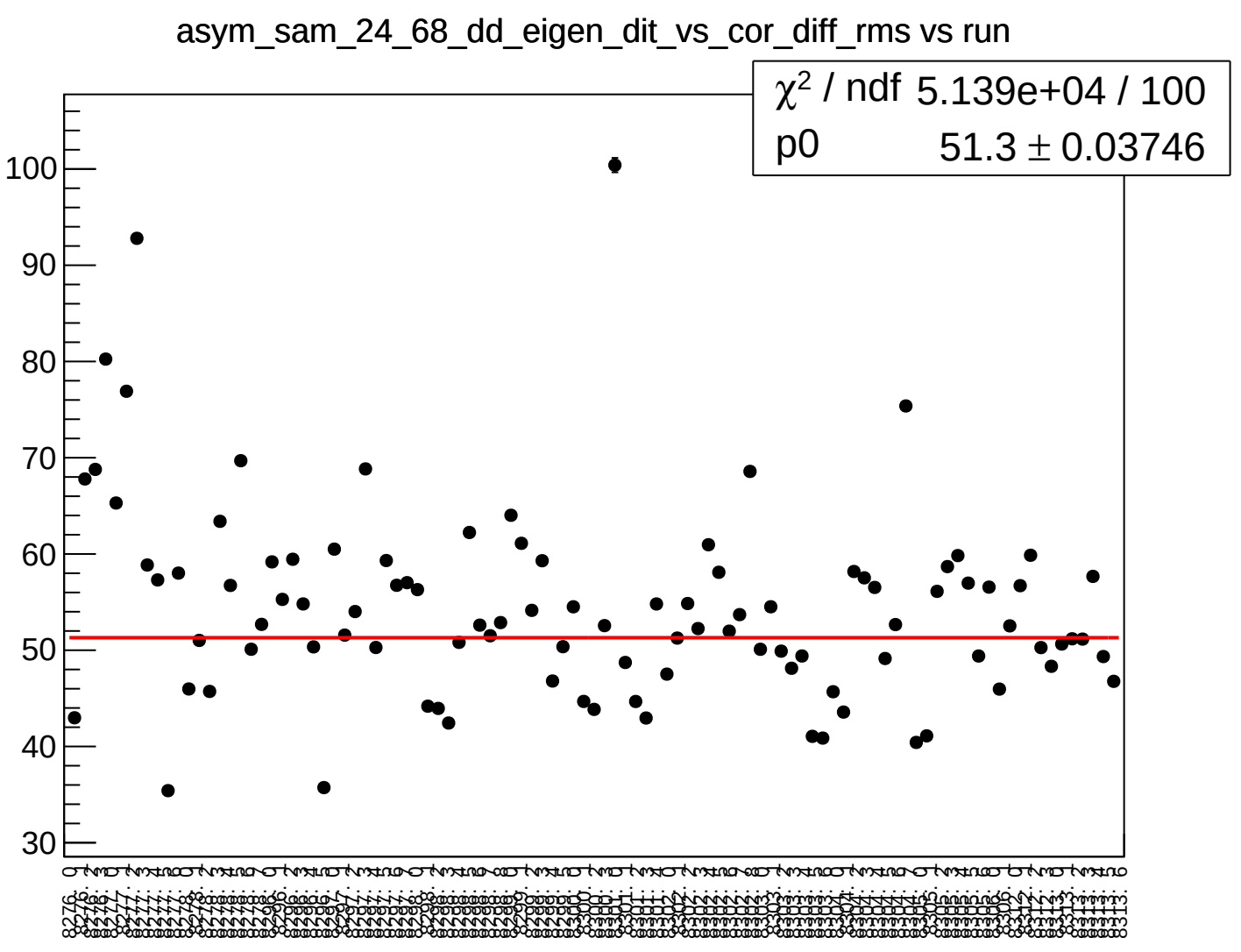

pull1D
Entries 101
Mean −0.004246
Std Dev 1.046


asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.139e+04 / 100
p0 51.3 ± 0.03746
100
90
80
70
60
50
40
30

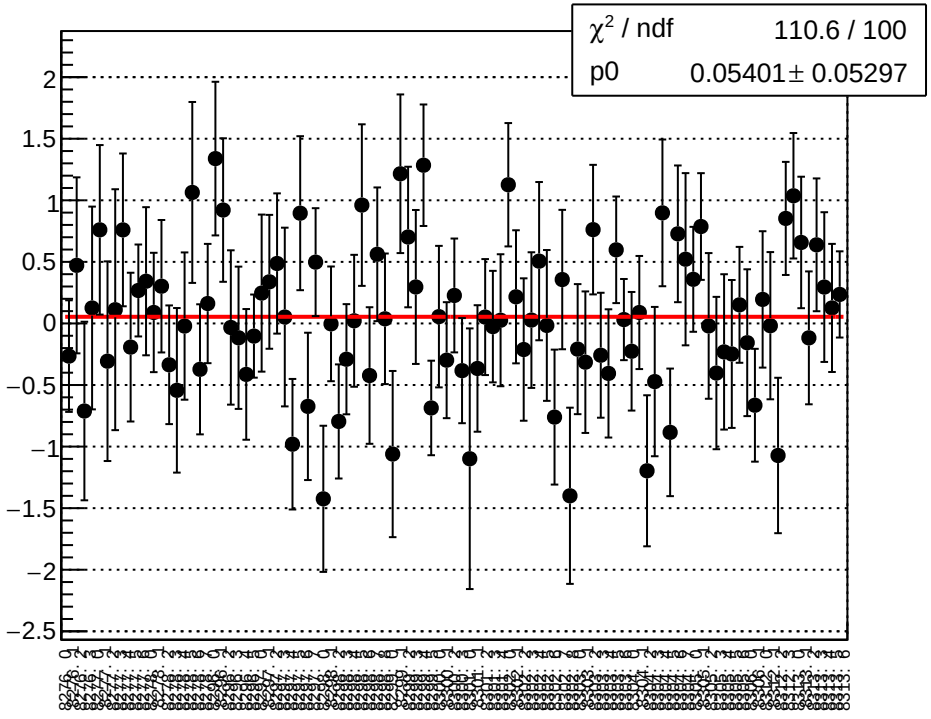

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 109.6 / 100
p0 −1.905e−06 ± 2.42e−06
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 101
Mean −833.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.01094
Std Dev 1.042
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

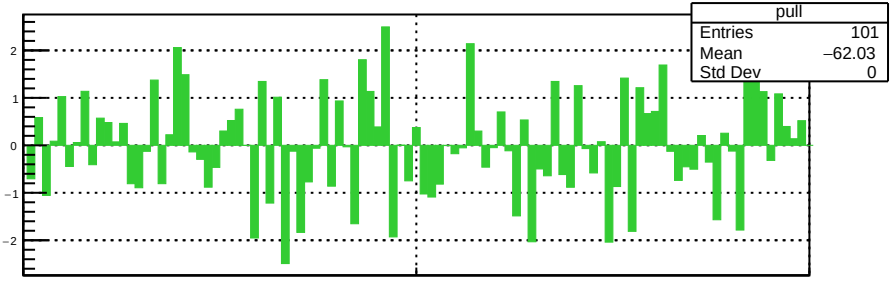

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.07e+05 / 100
p0 0.002309 ± 1.711e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015

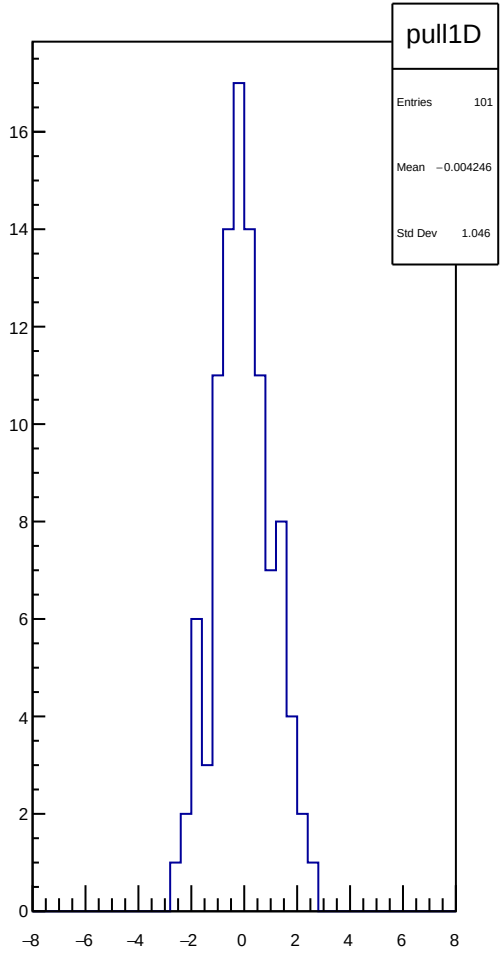

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 110.6 / 100
p0 0.05401 ± 0.05297
pull
Entries 101
Mean −62.03
Std Dev 0
pull1D
Entries 101
Mean −0.004246
Std Dev 1.046

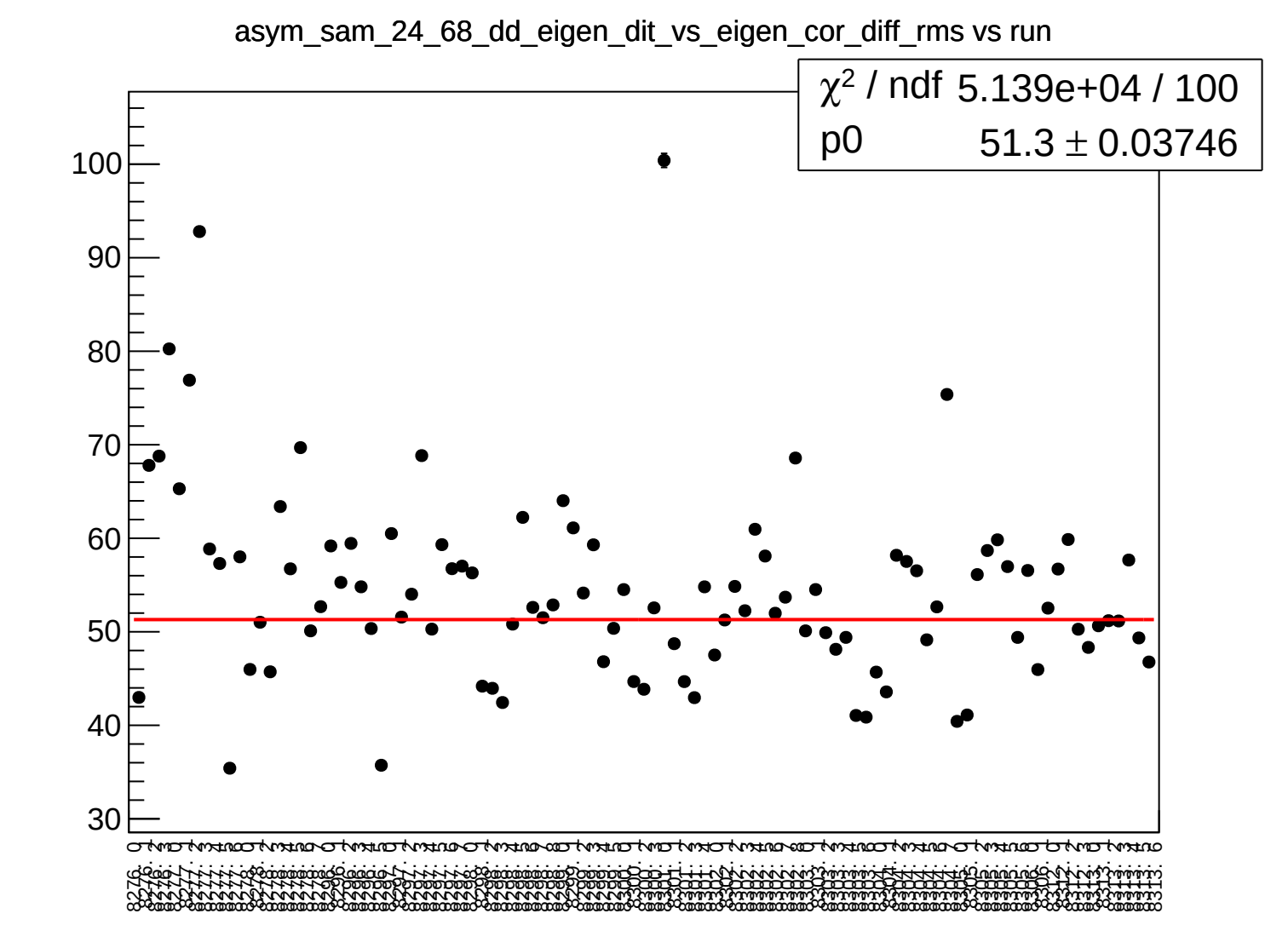

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.139e+04 / 100
p0 51.3 ± 0.03746
100
90
80
70
60
50
40
30

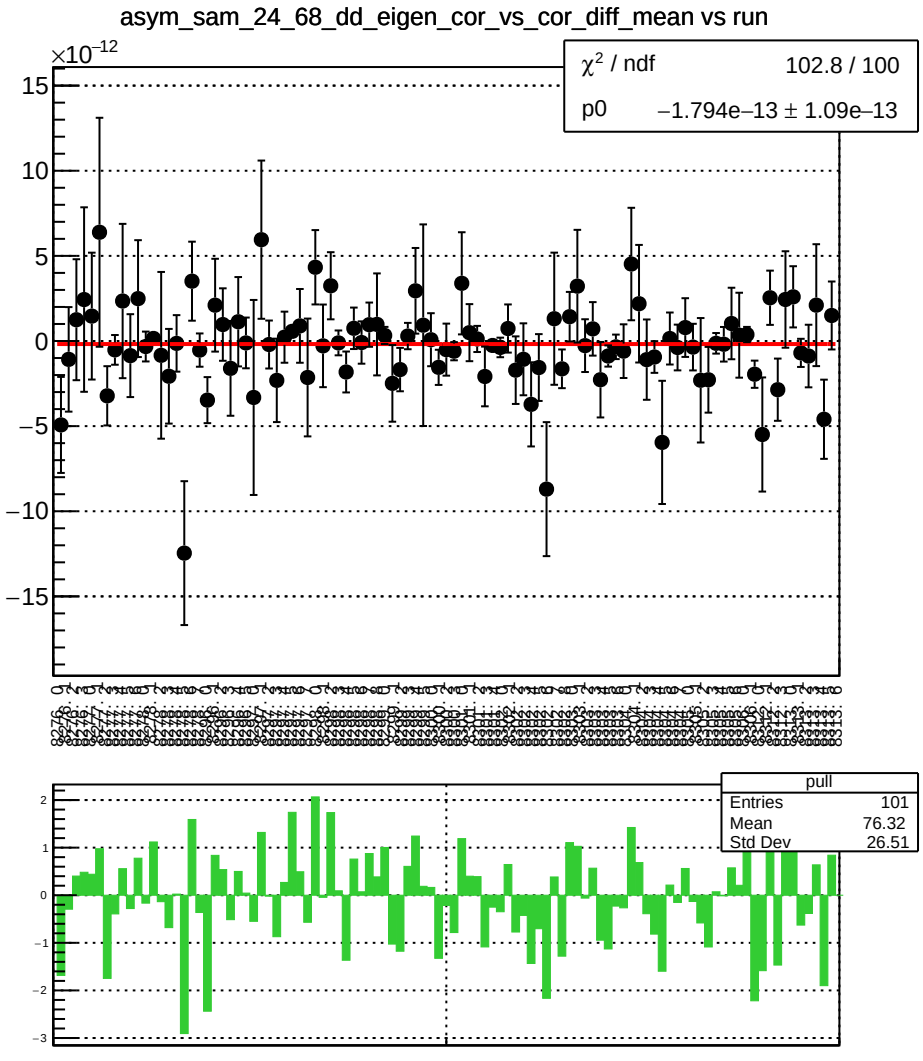
asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

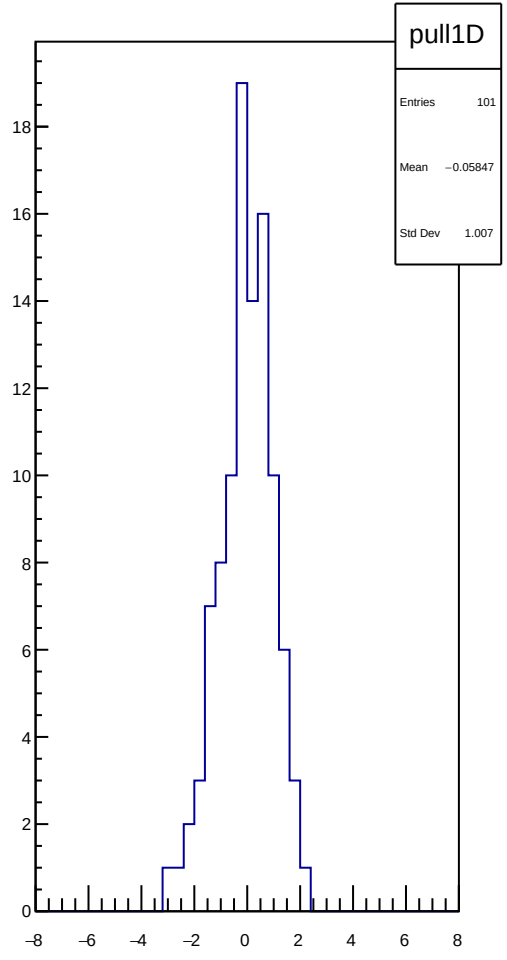


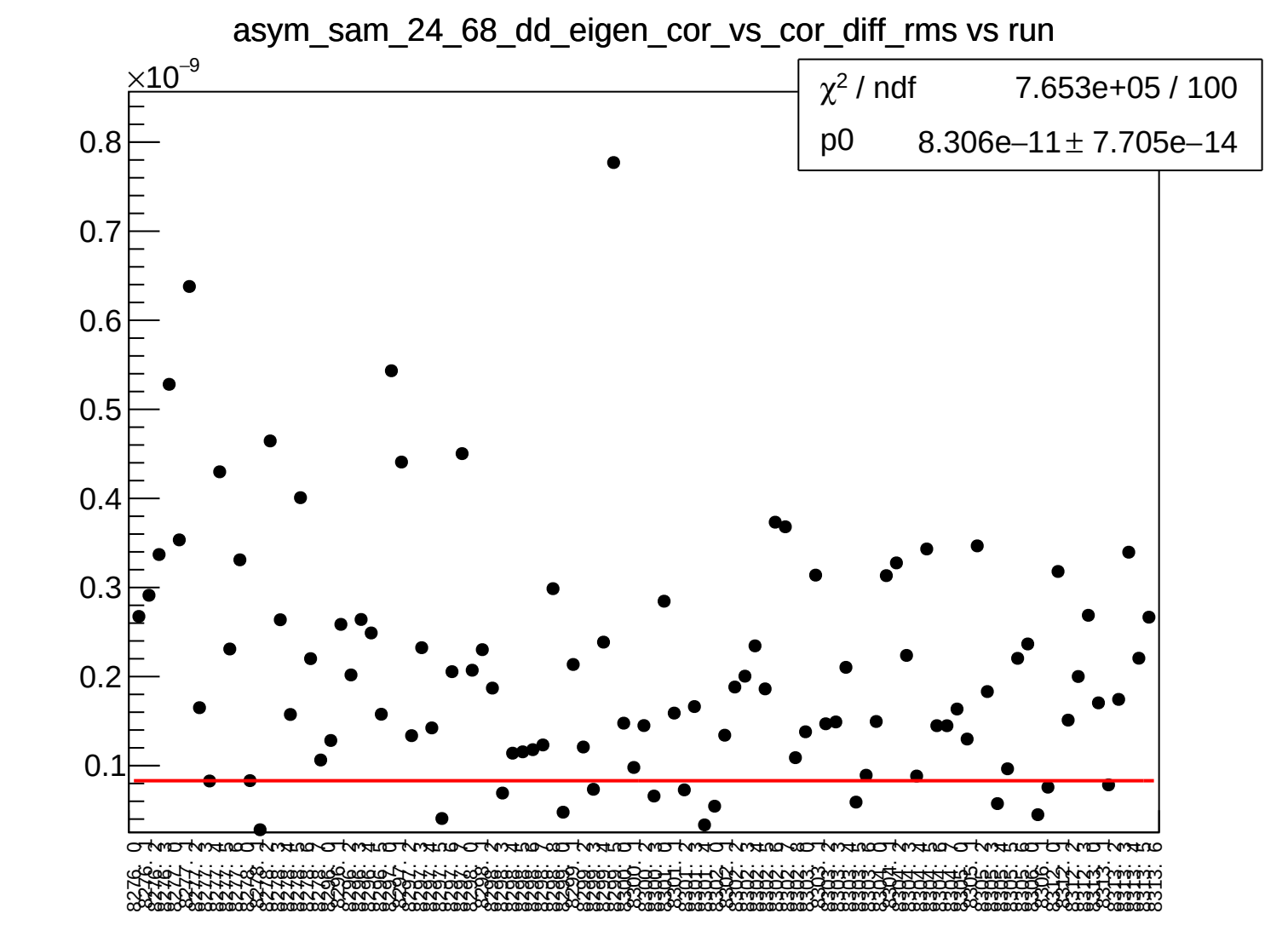


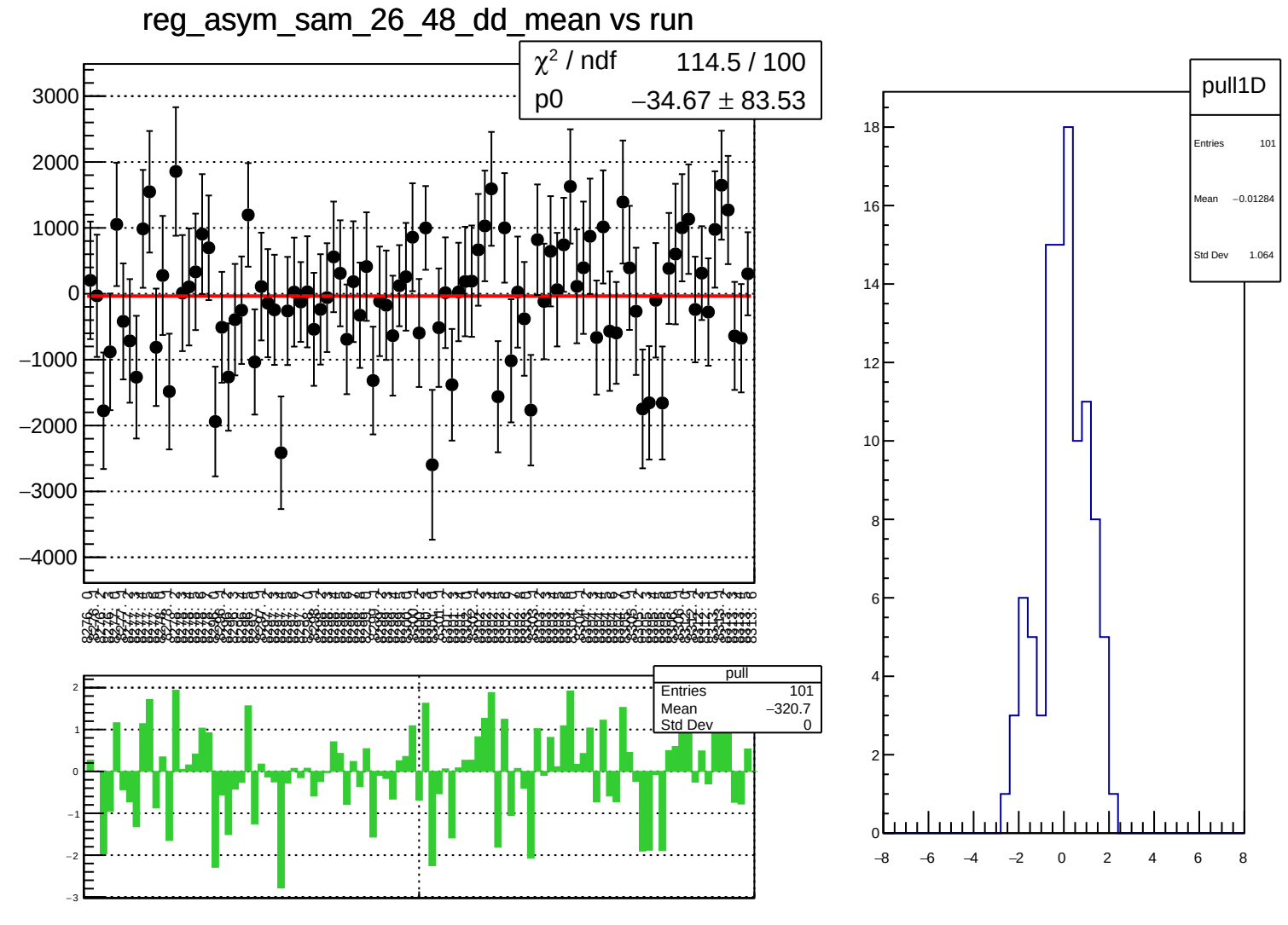


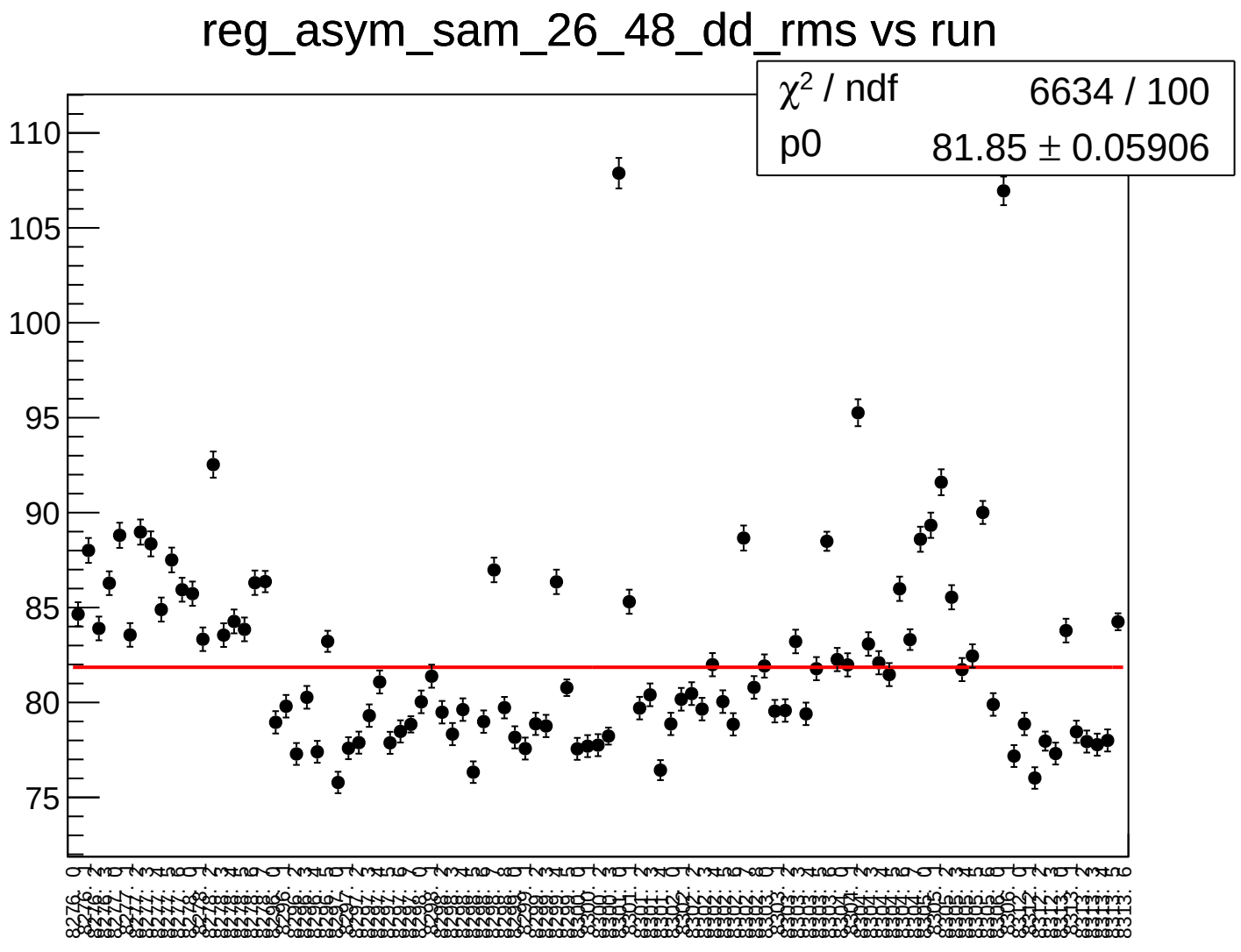

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.139e+04 / 100
p0 51.3 ± 0.03746
100
90
80
70
60
50
40
30

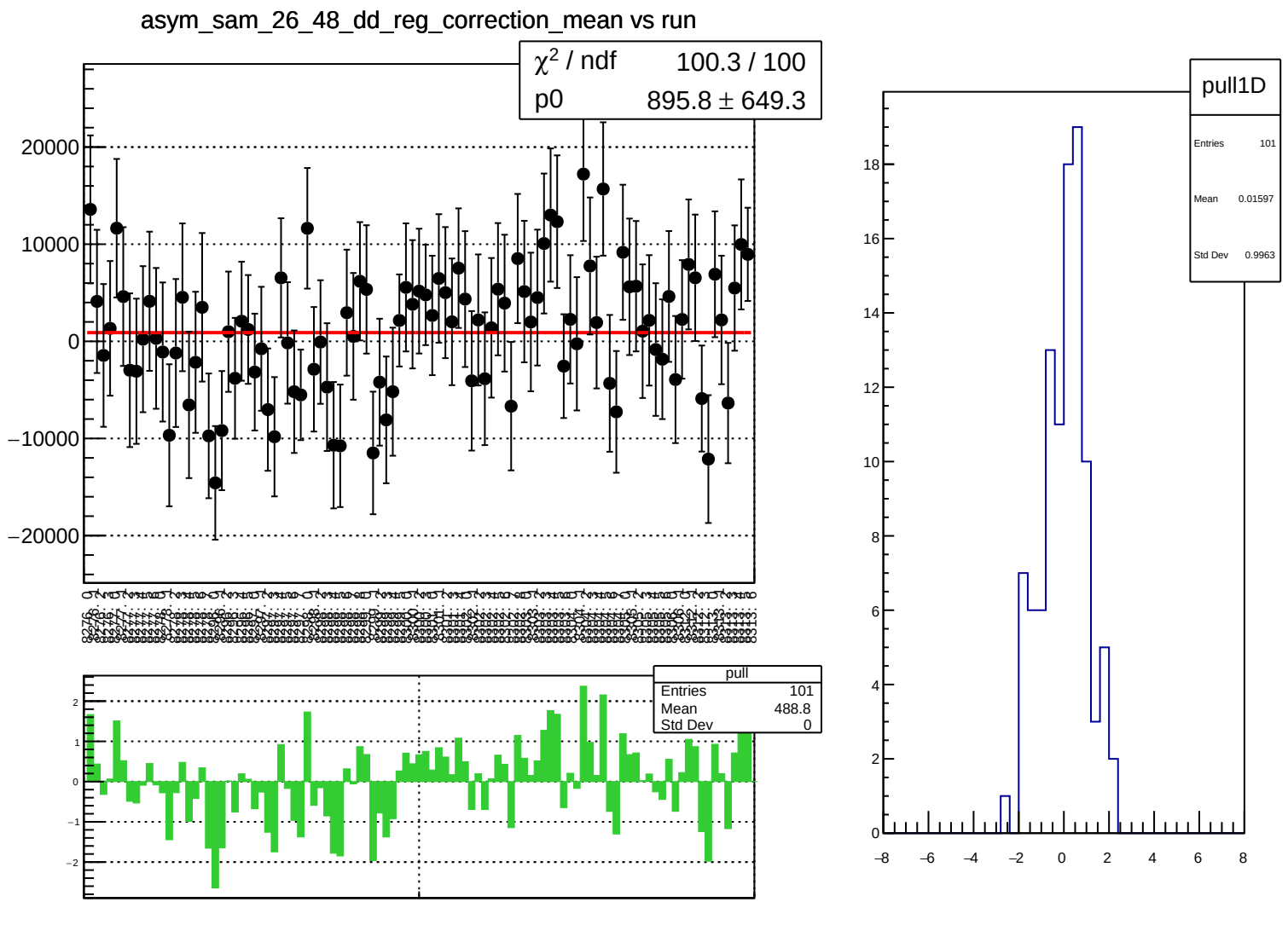

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 102.8 / 100
p0 −1.794e−13 ± 1.09e−13
pull
Entries 101
Mean 76.32
Std Dev 26.51

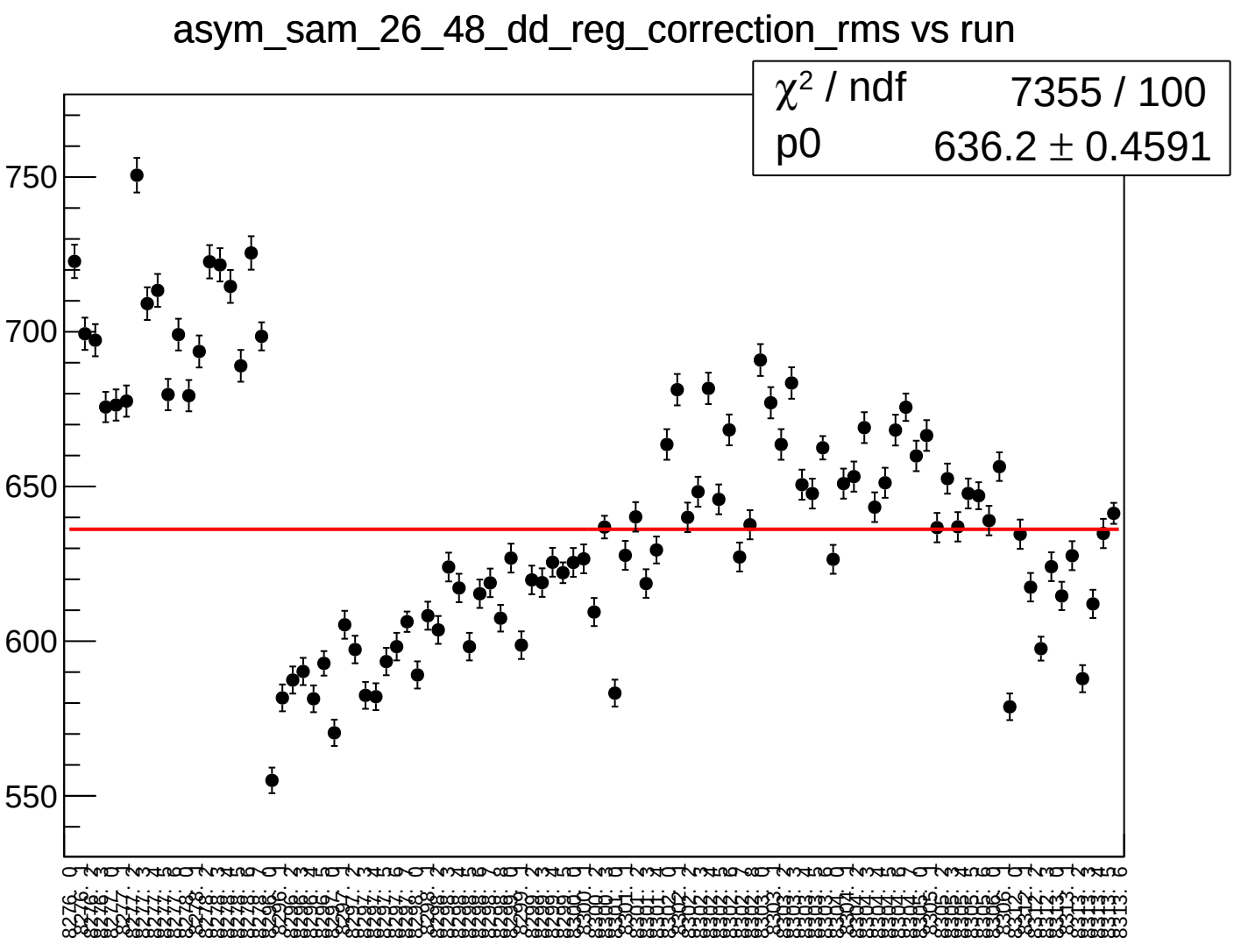

pull1D
Entries 101
Mean −0.05847
Std Dev 1.007

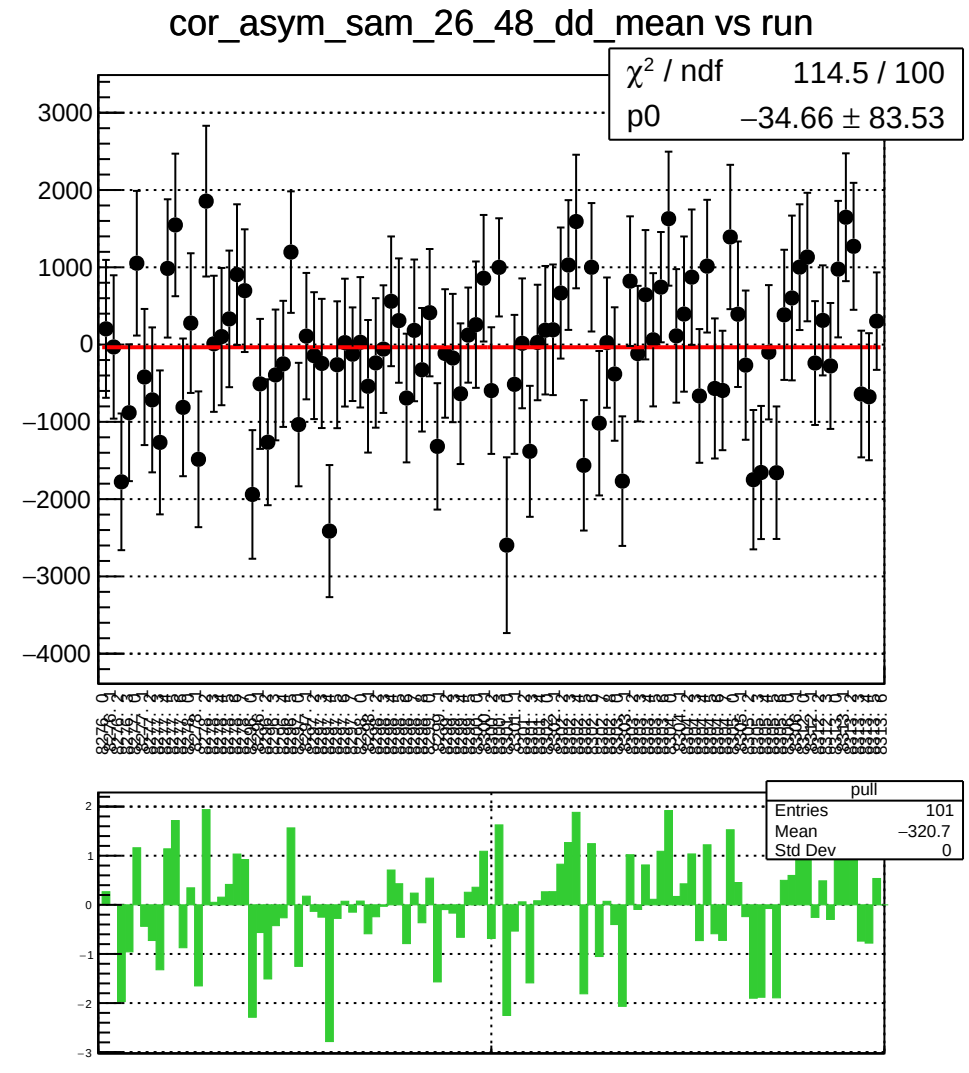

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.653e+05 / 100
p0 8.306e−11 ± 7.705e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

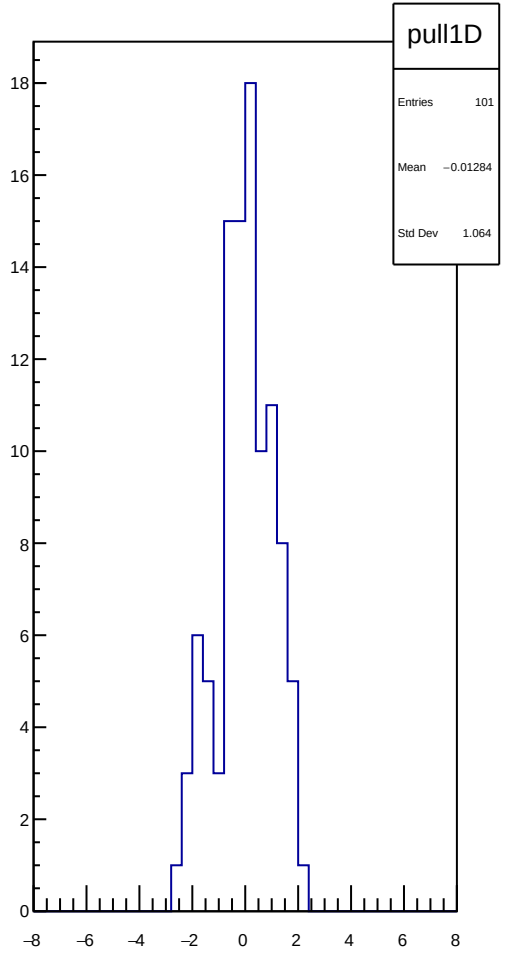

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 114.5 / 100
p0 −34.67 ± 83.53
pull
Entries 101
Mean −320.7
Std Dev 0
pull1D
Entries 101
Mean −0.01284
Std Dev 1.064

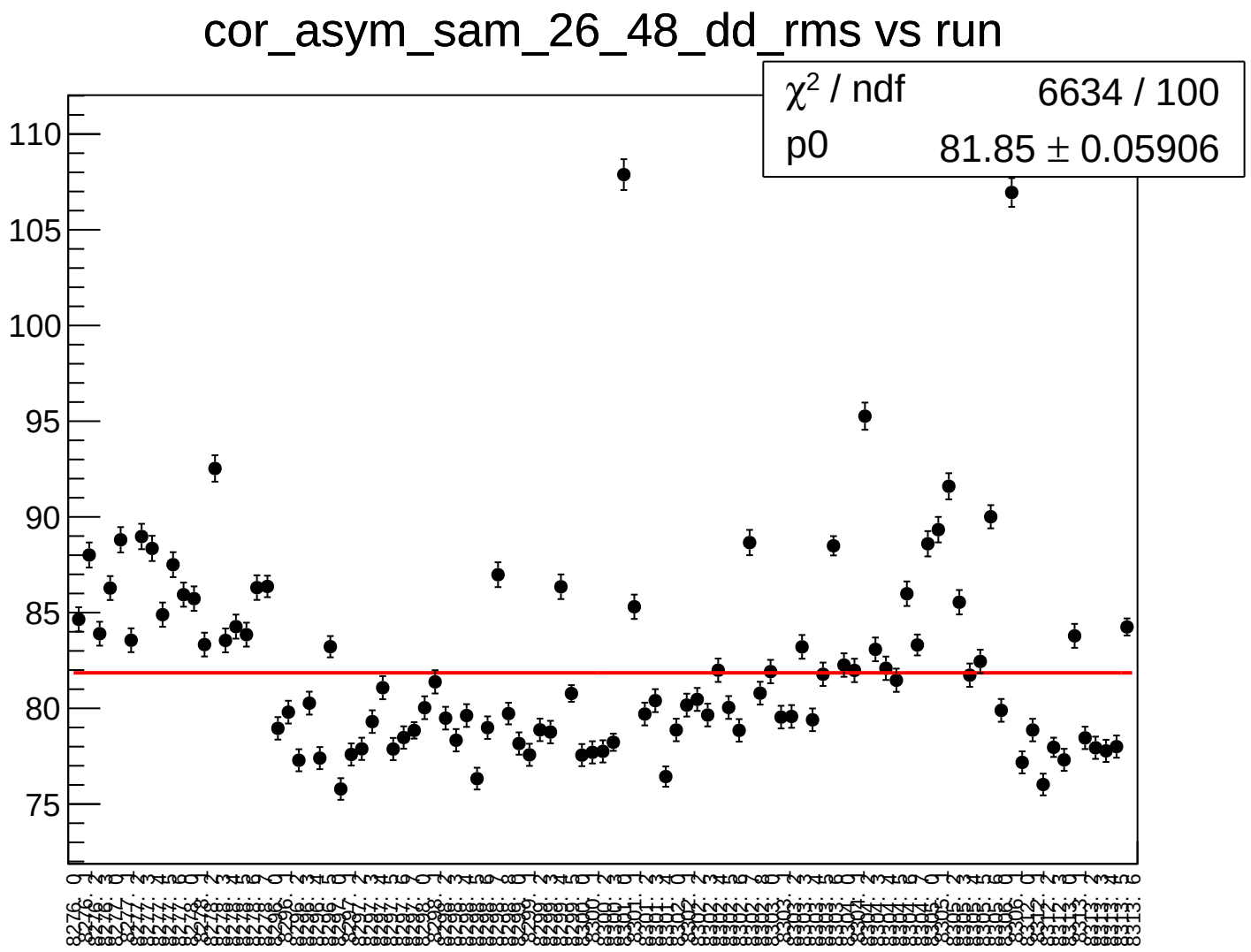

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 6634 / 100
p0 81.85 ± 0.05906
110
105
100
95
90
85
80
75

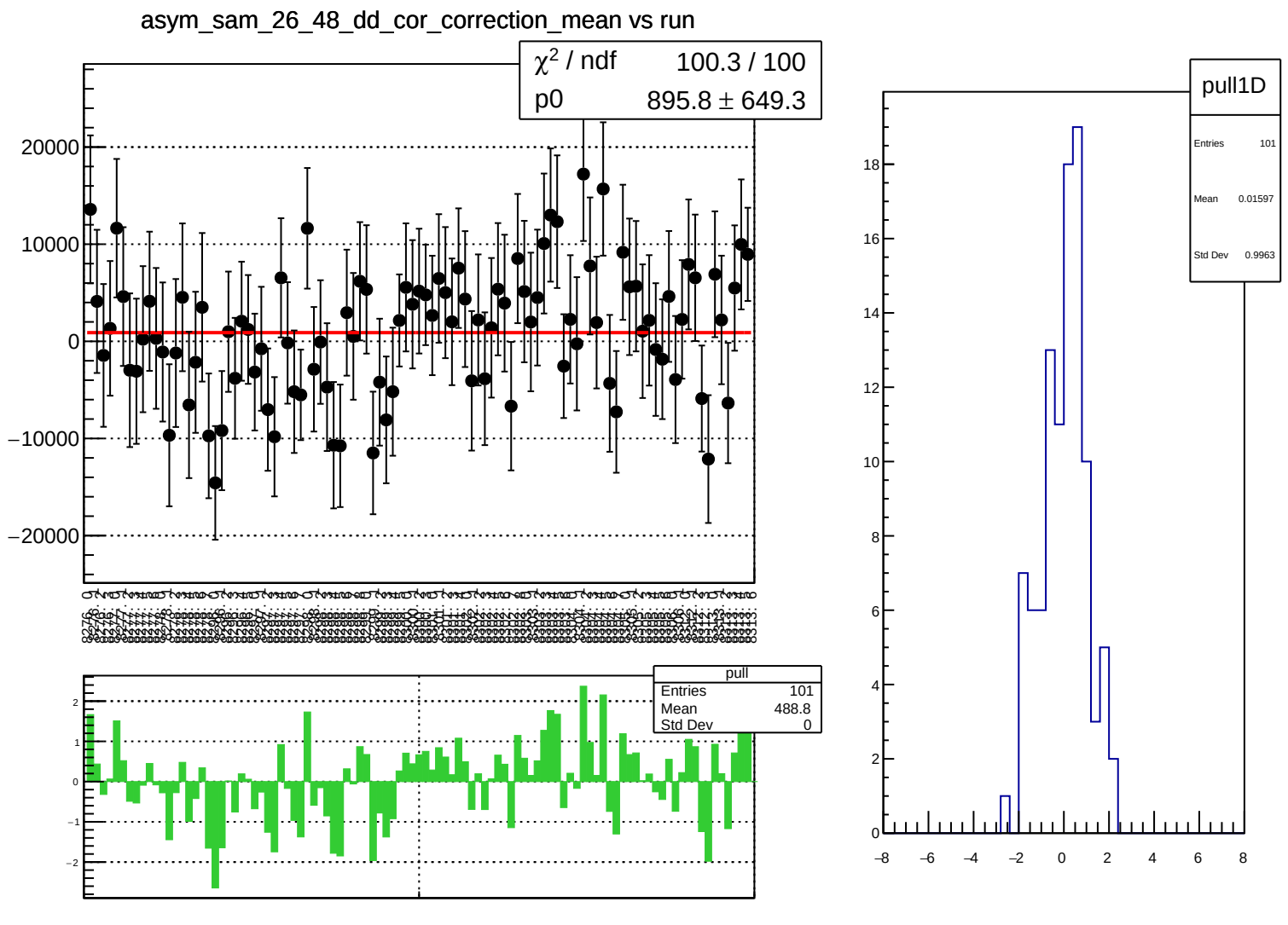

asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 100.3 / 100
p0 895.8 ± 649.3
20000
10000
0
−10000
−20000
pull
Entries 101
Mean 488.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.01597
Std Dev 0.9963
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 7355 / 100
p0 636.2 ± 0.4591
750
700
650
600
550


cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 114.5 / 100
p0 −34.66 ± 83.53
pull
Entries 101
Mean −320.7
Std Dev 0


pull1D
Entries 101
Mean −0.01284
Std Dev 1.064


cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 6634 / 100
p0 81.85 ± 0.05906
110
105
100
95
90
85
80
75


asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 100.3 / 100
p0 895.8 ± 649.3
20000
10000
0
−10000
−20000
pull
Entries 101
Mean 488.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.01597
Std Dev 0.9963
18
16
14
12
10
8
6
4
2
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−8
−6
−4
−2
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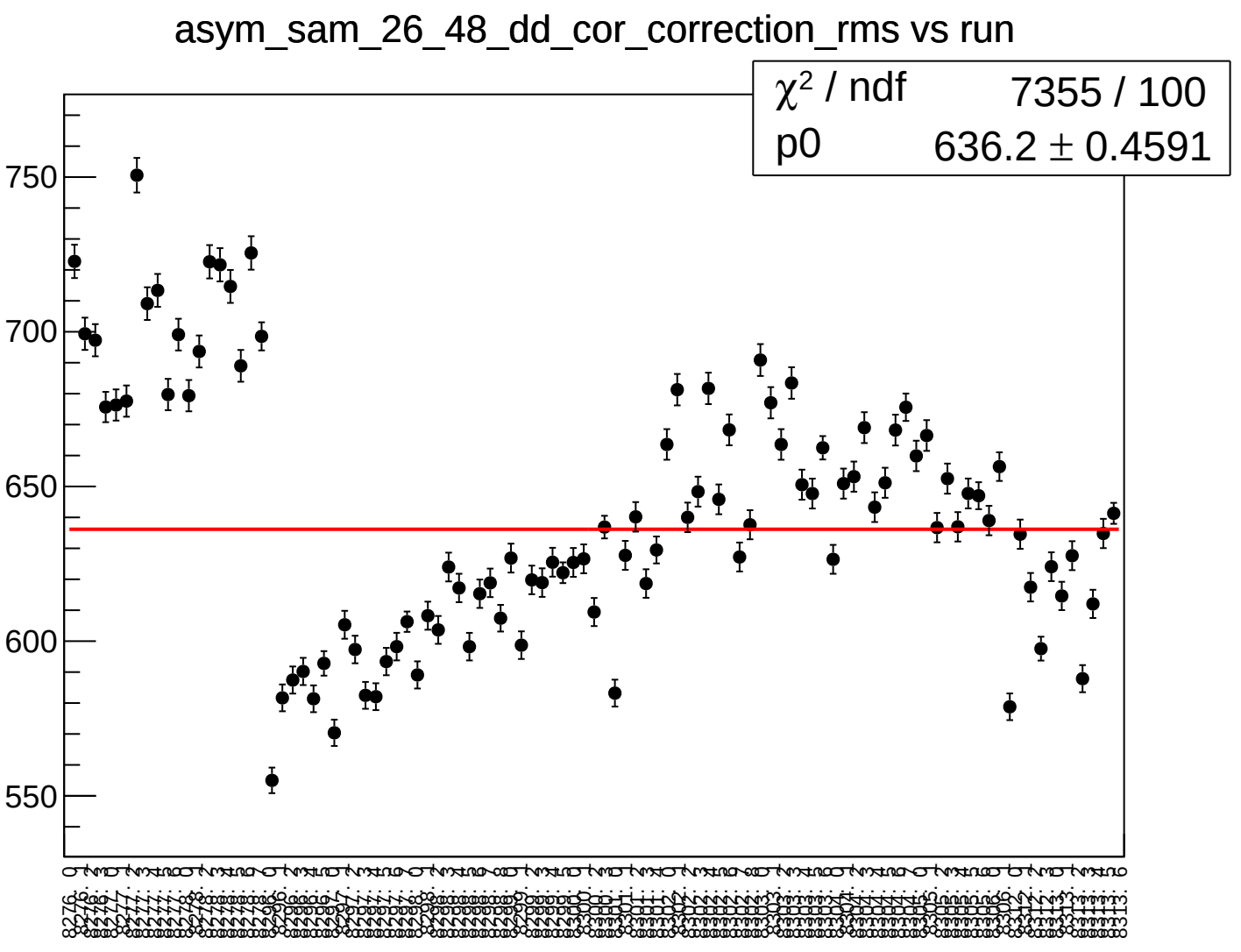
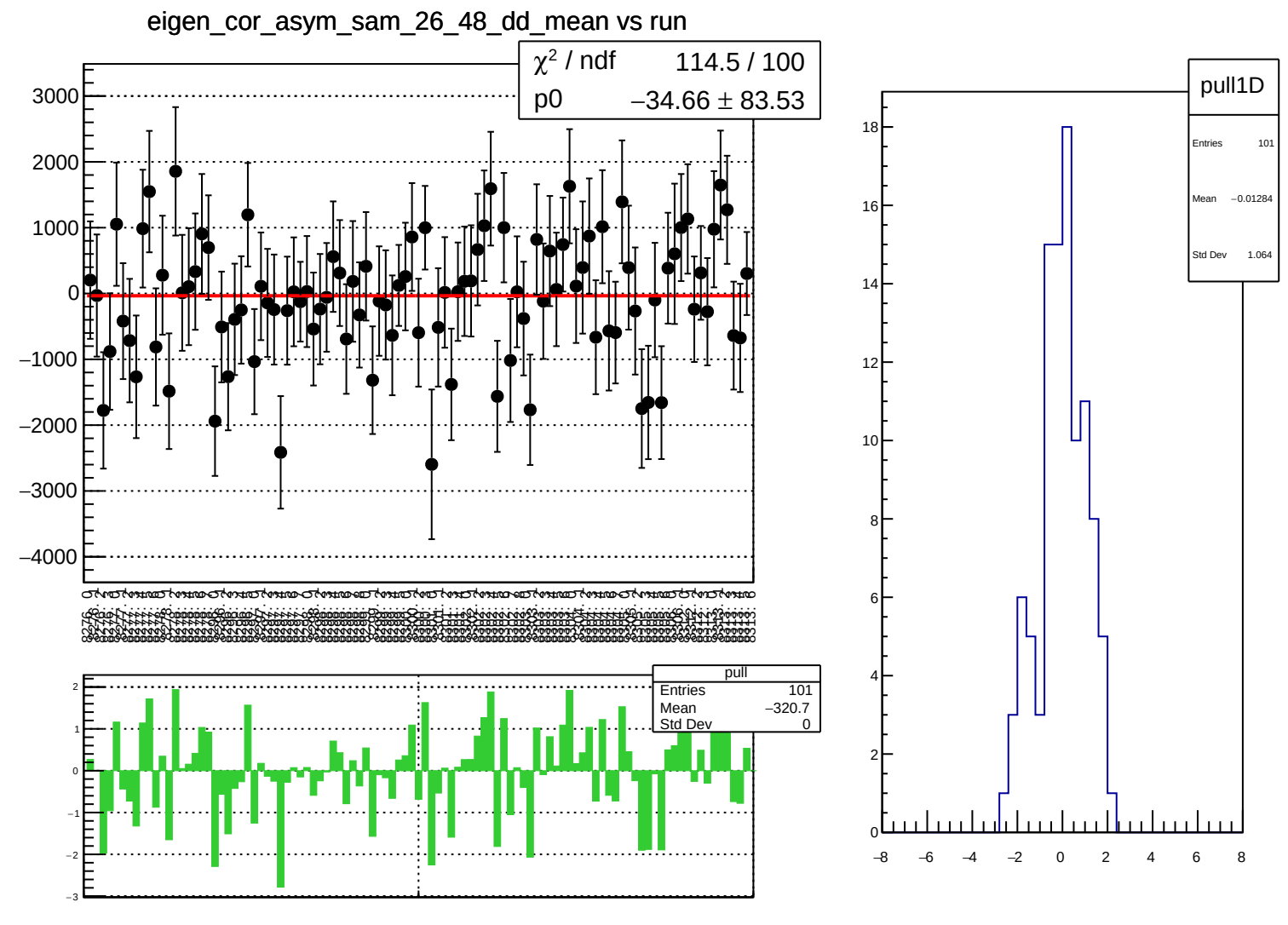
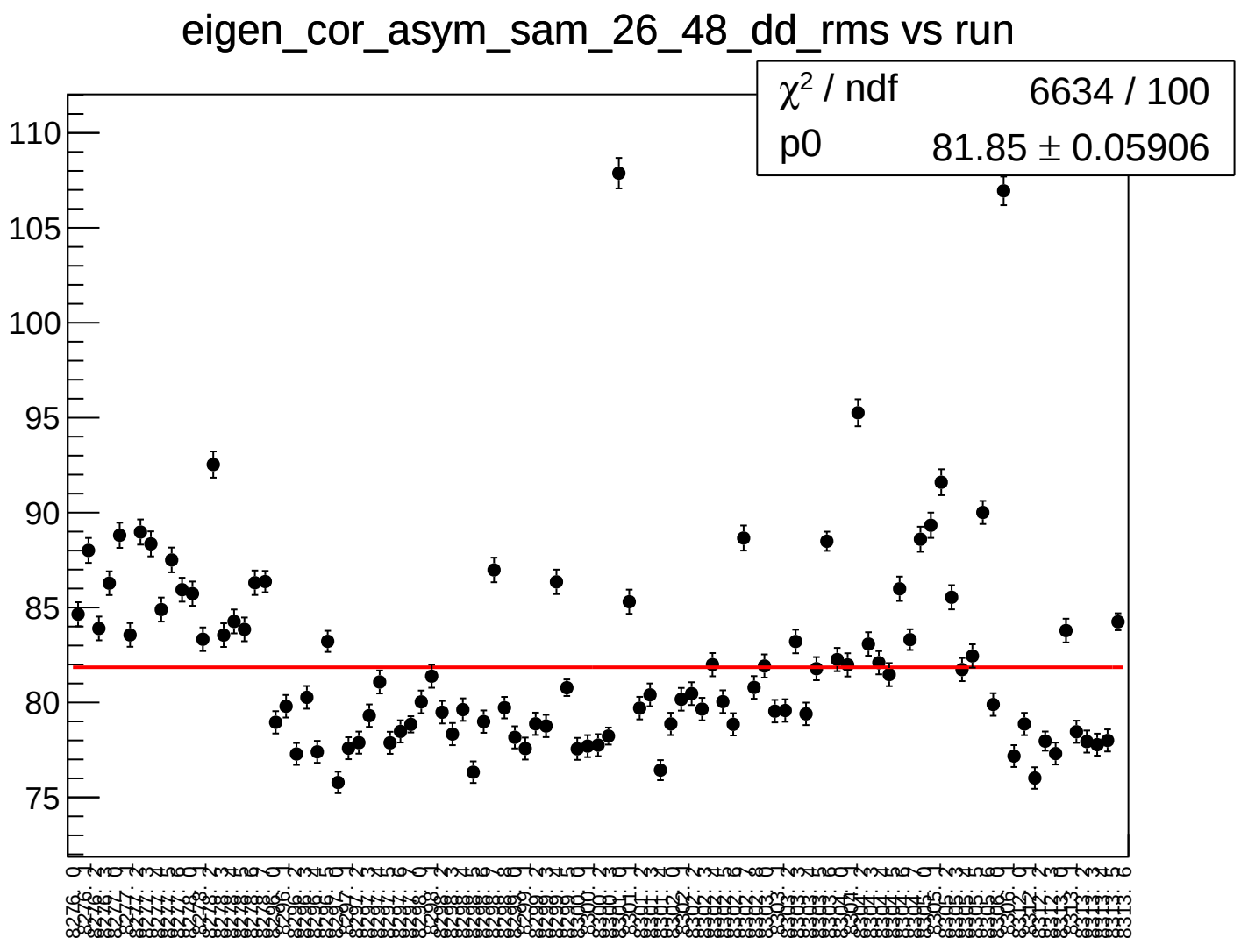
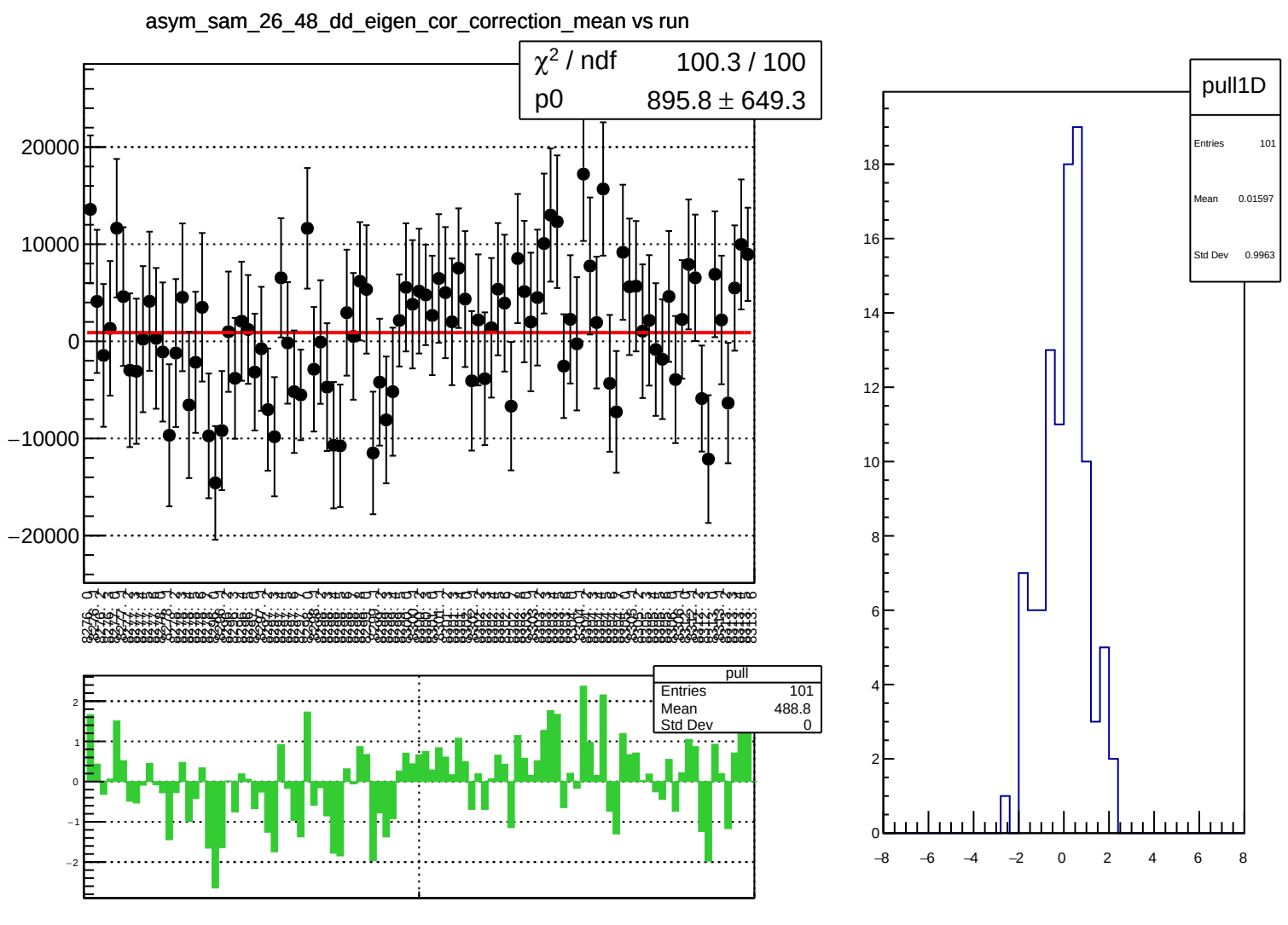
2
4
6
8


asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 7355 / 100
p0 636.2 ± 0.4591
750
700
650
600
550


eigen_cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 114.5 / 100
p0 −34.66 ± 83.53
pull
Entries 101
Mean −320.7
Std Dev 0
pull1D
Entries 101
Mean −0.01284
Std Dev 1.064


eigen_cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 6634 / 100
p0 81.85 ± 0.05906
110
105
100
95
90
85
80
75


asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 100.3 / 100
p0 895.8 ± 649.3
20000
10000
0
−10000
−20000
pull
Entries 101
Mean 488.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.01597
Std Dev 0.9963
18
16
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10
8
6
4
2
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2
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6
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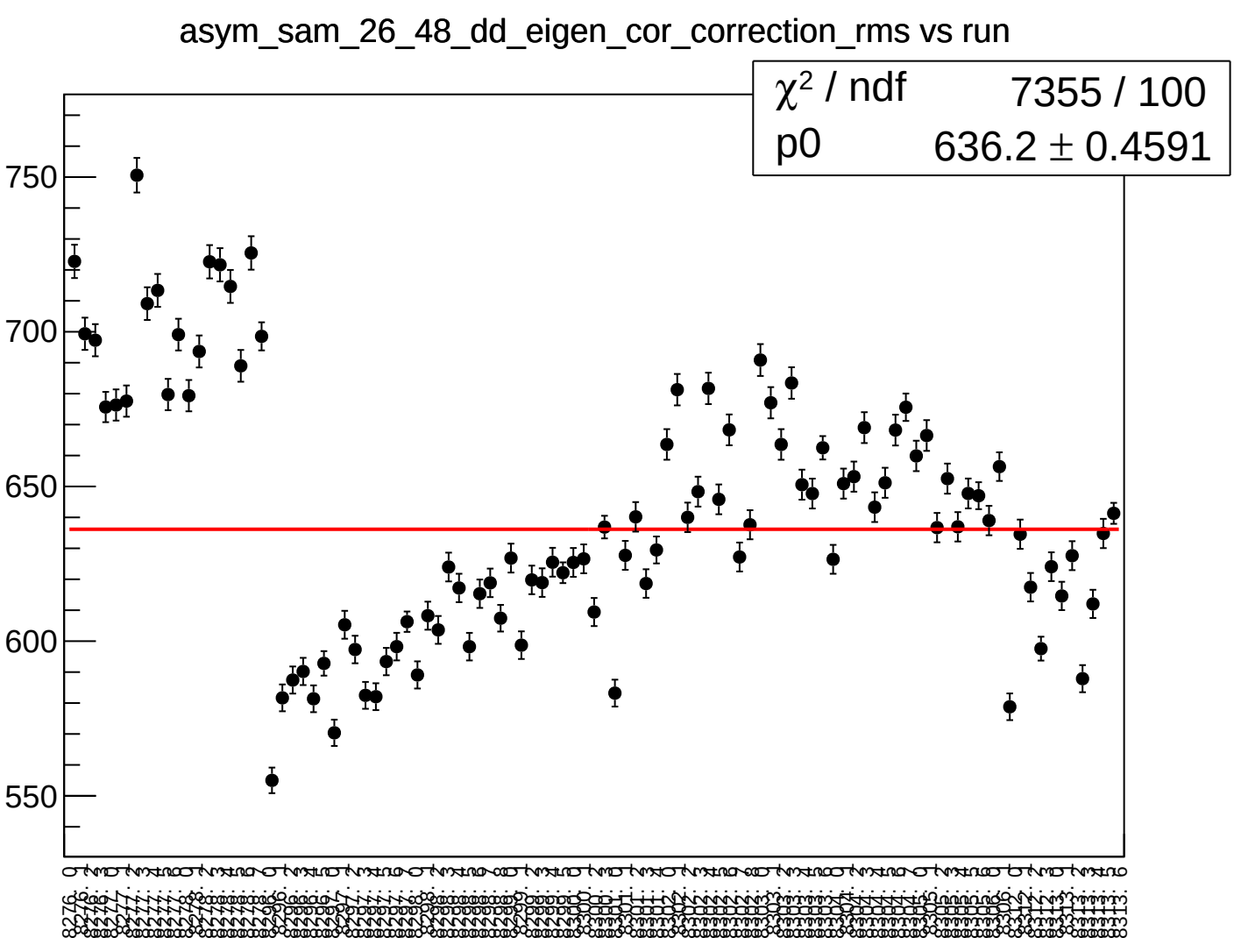
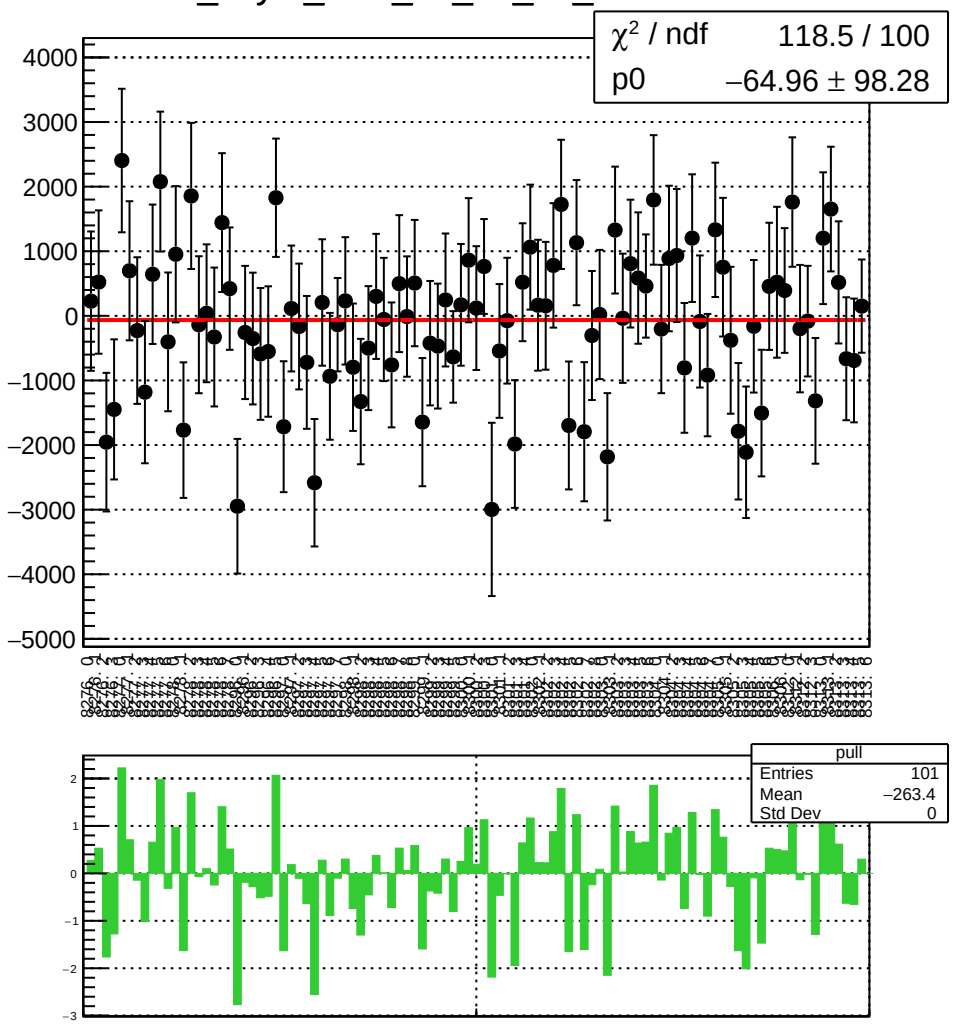
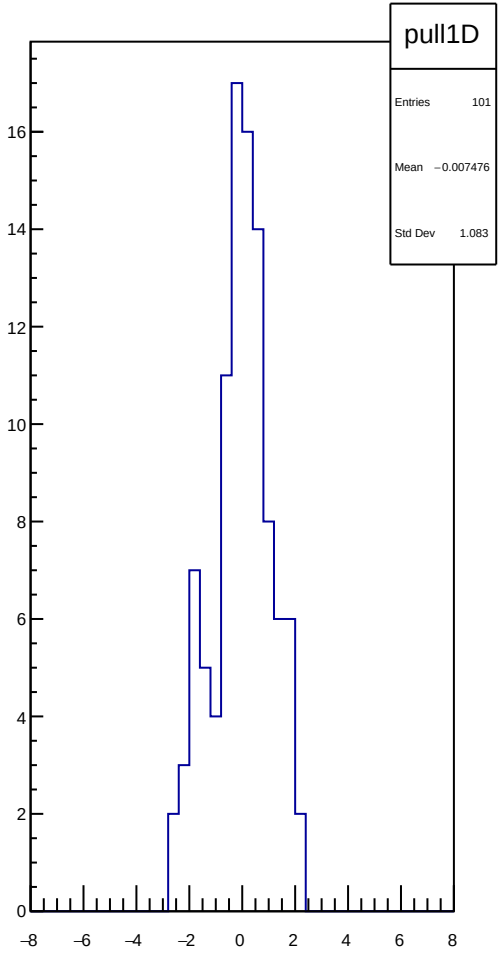
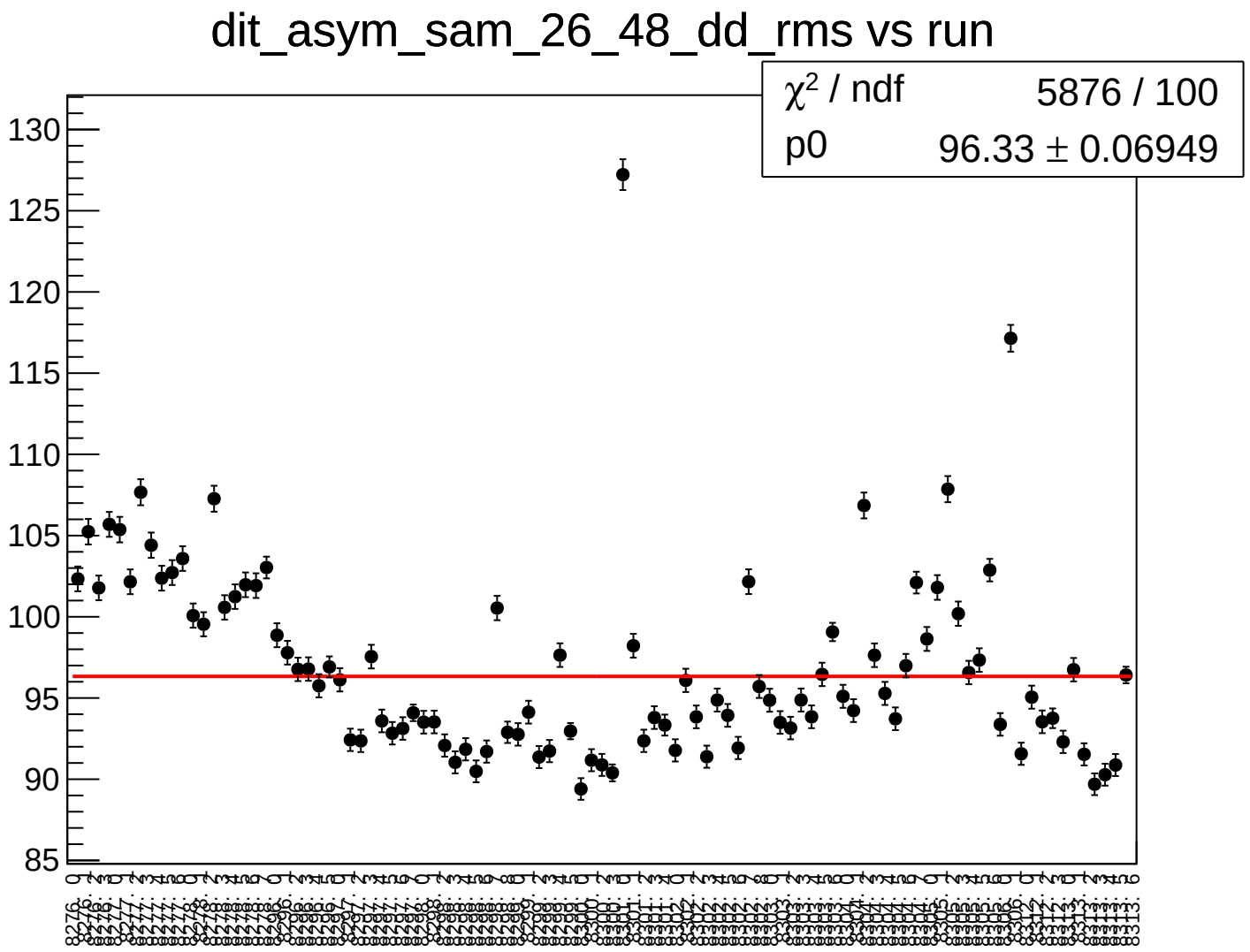
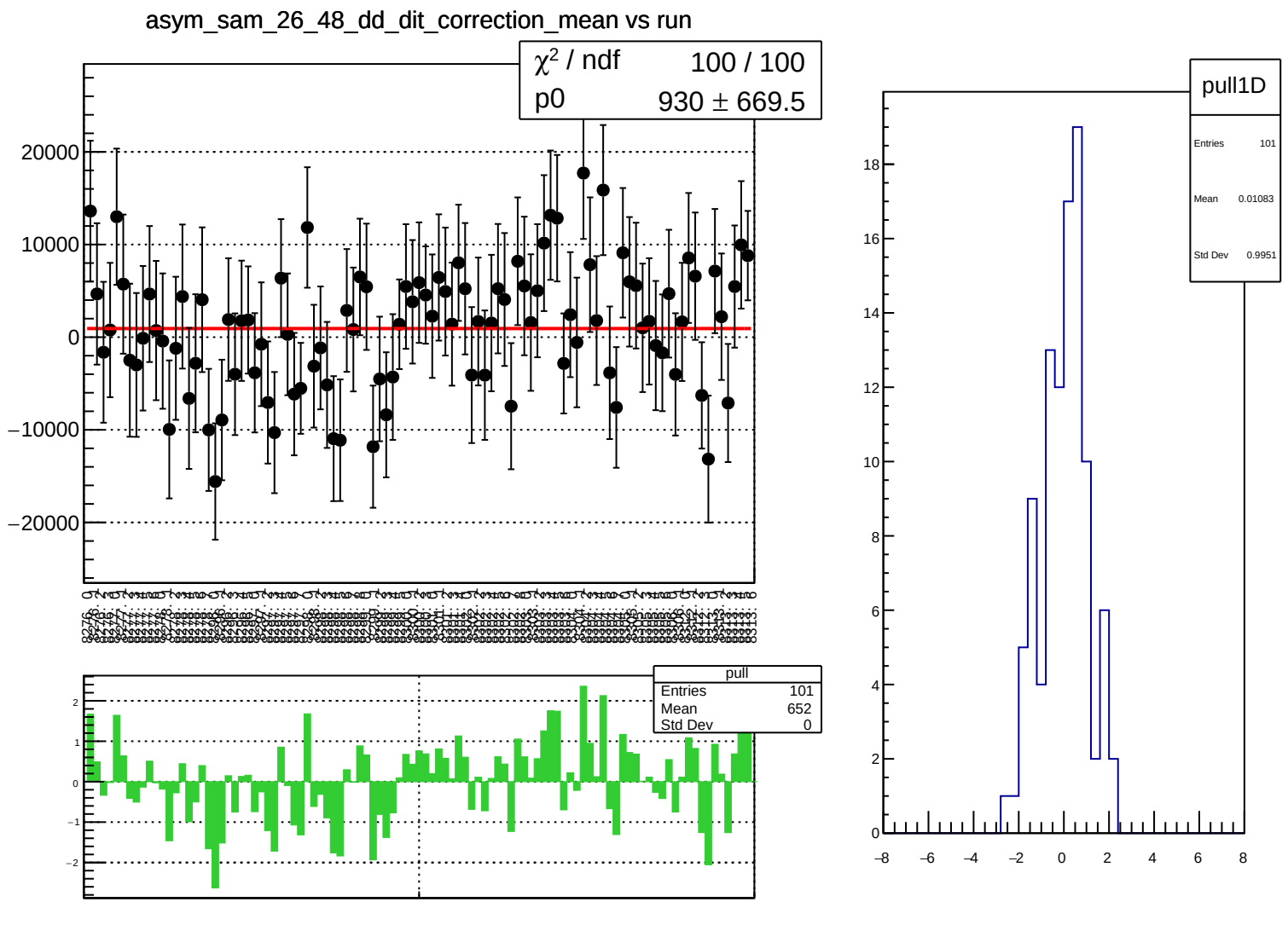
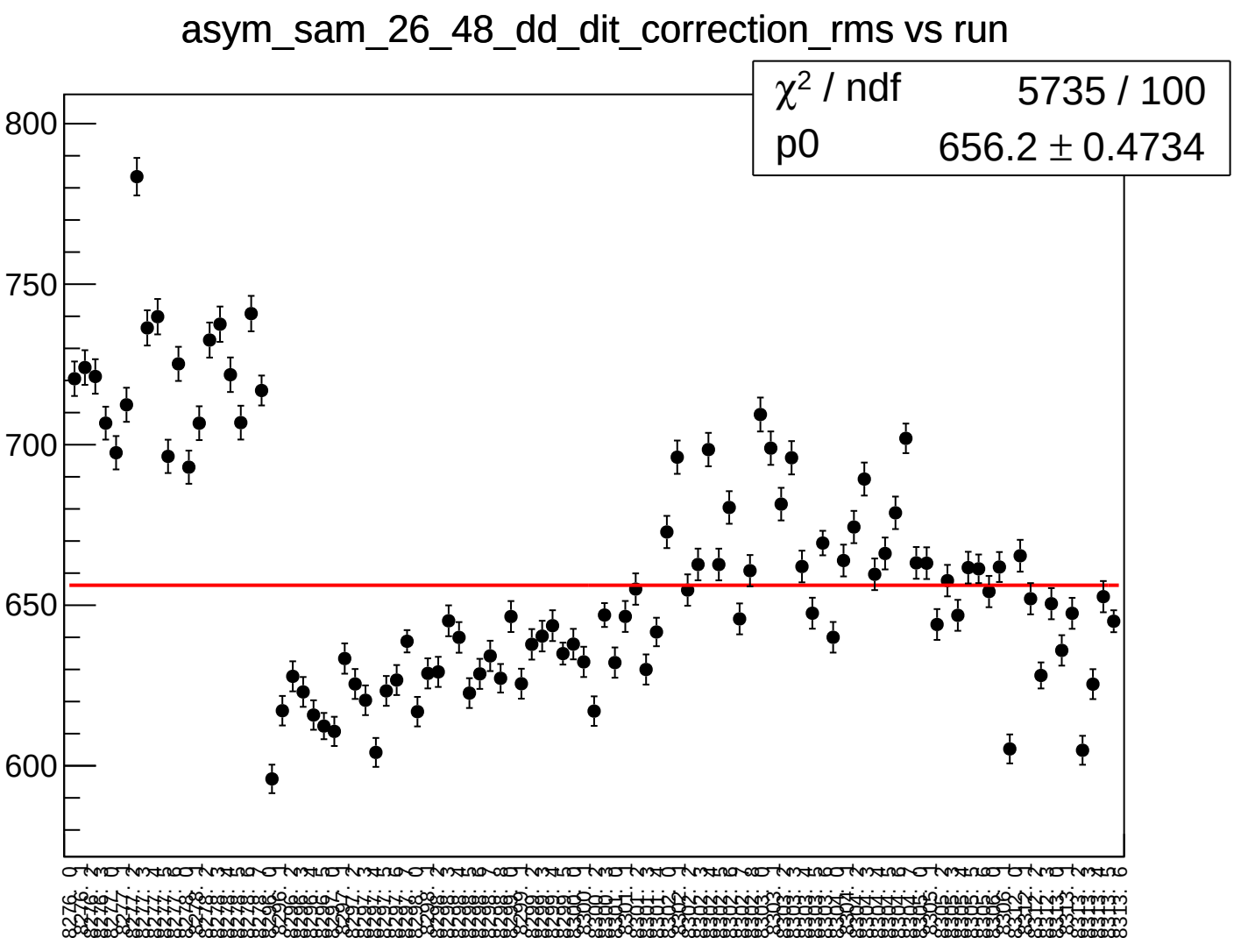

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 7355 / 100
p0 636.2 ± 0.4591
750
700
650
600
550

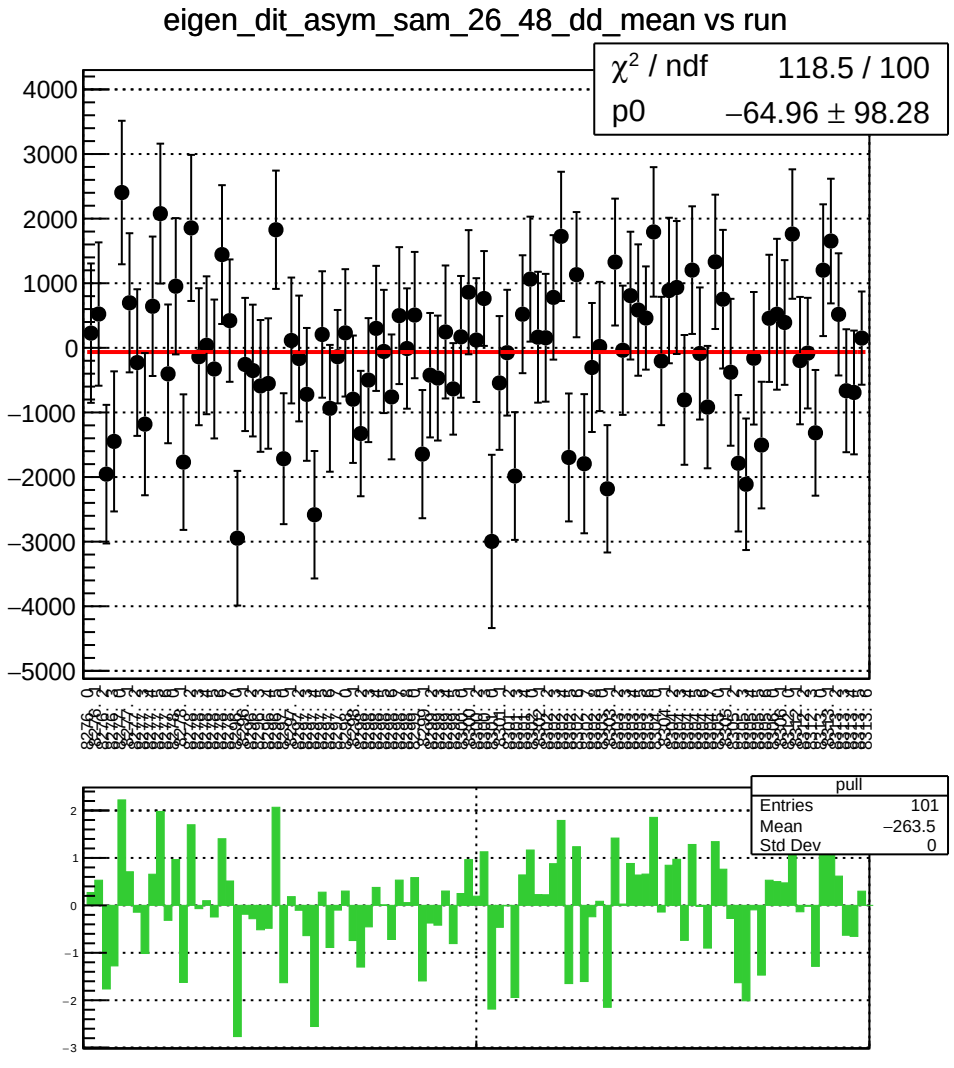

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 118.5 / 100
p0 −64.96 ± 98.28
pull
Entries 101
Mean −263.4
Std Dev 0

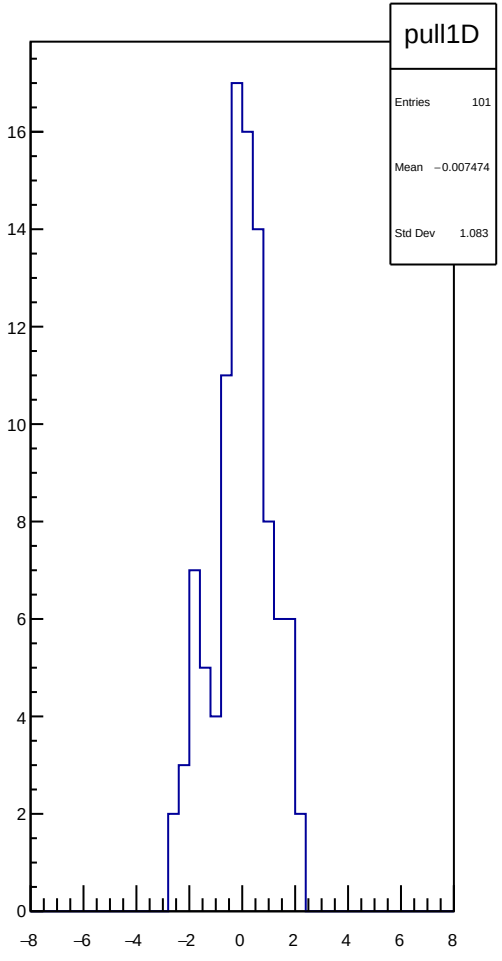

pull1D
Entries 101
Mean −0.007476
Std Dev 1.083

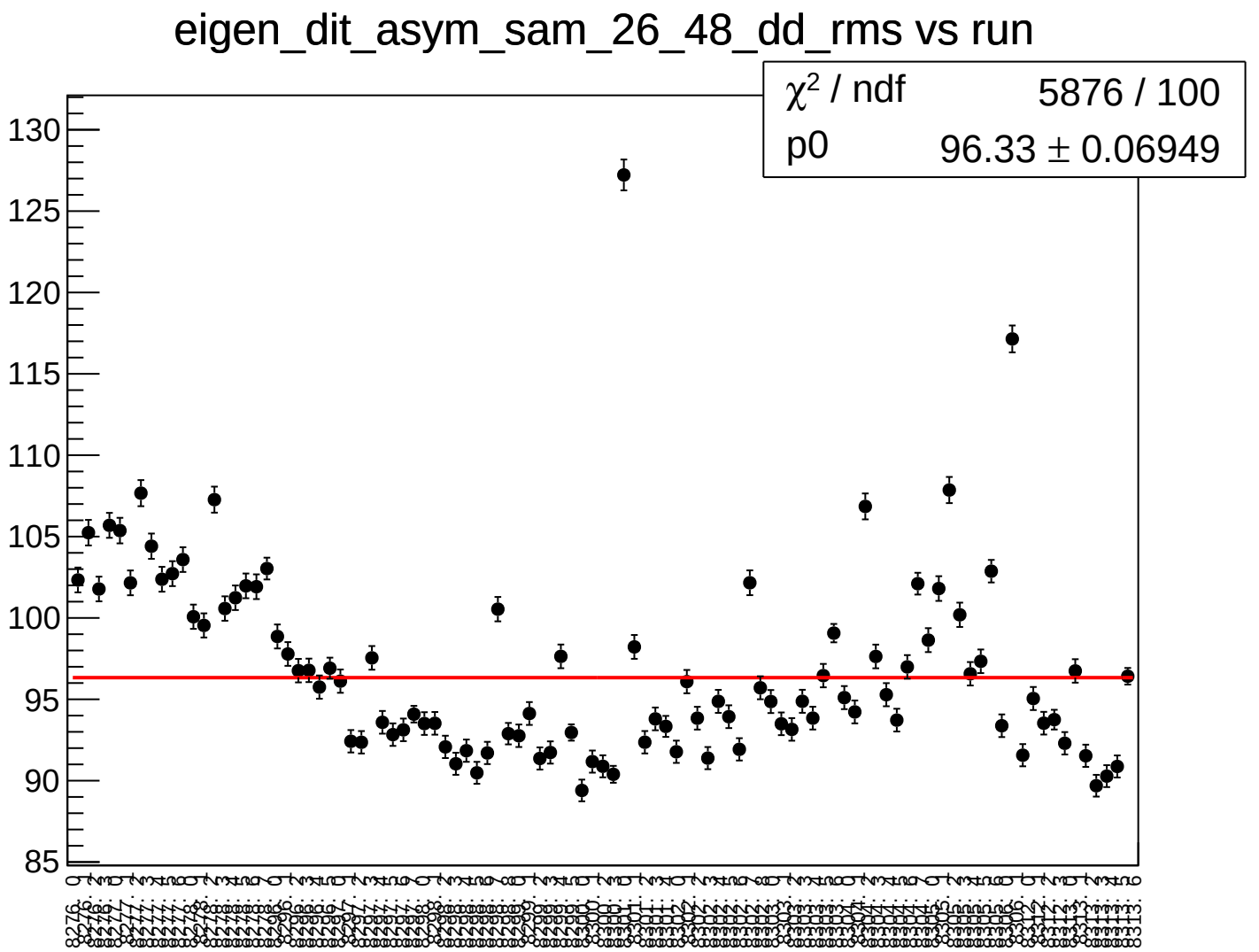

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 5876 / 100
p0 96.33 ± 0.06949
130
125
120
115
110
105
100
95
90
85

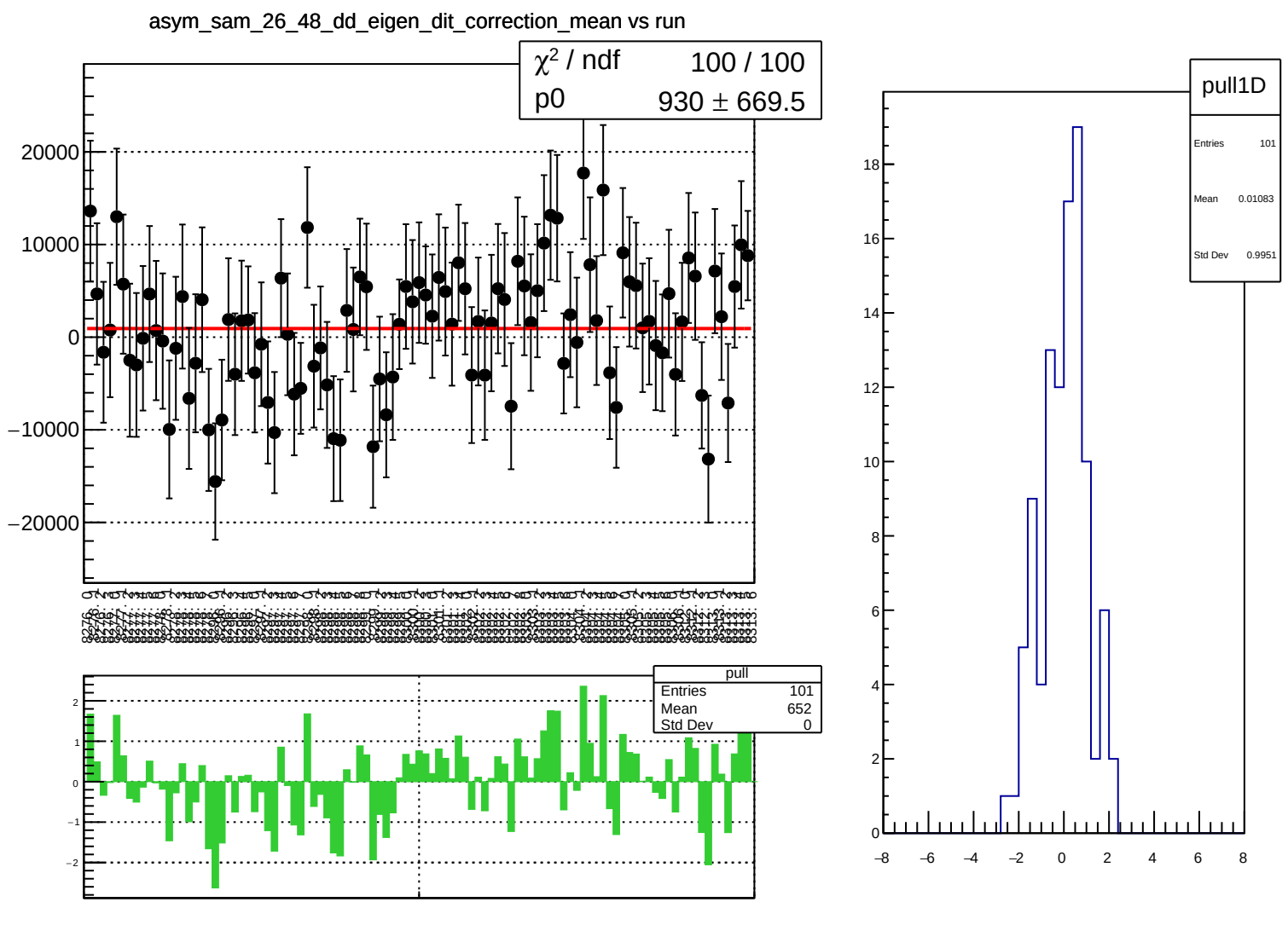

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 100 / 100
p0 930 ± 669.5
20000
10000
0
−10000
−20000
pull
Entries 101
Mean 652
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.01083
Std Dev 0.9951
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

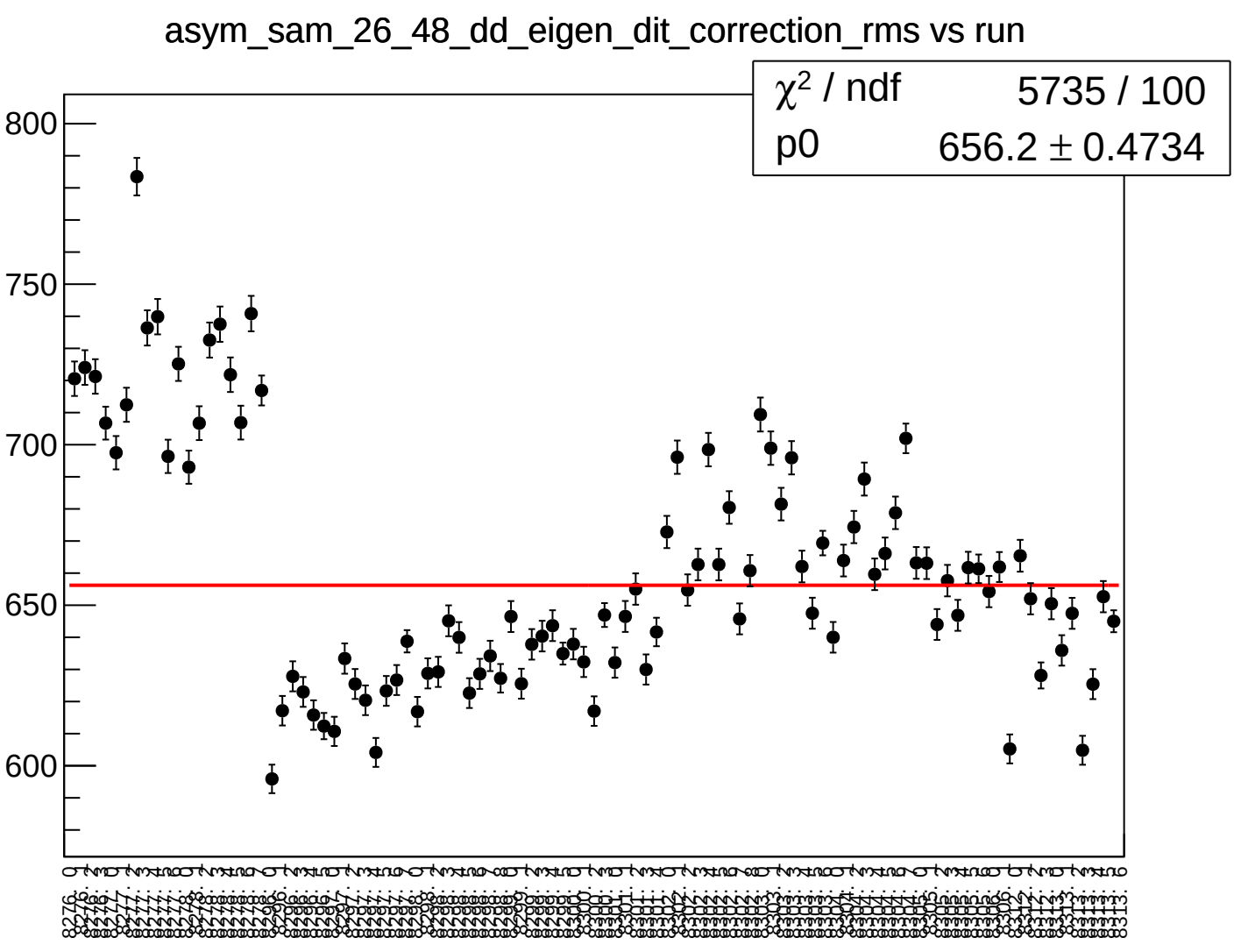

asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 5735 / 100
p0 656.2 ± 0.4734
800
750
700
650
600

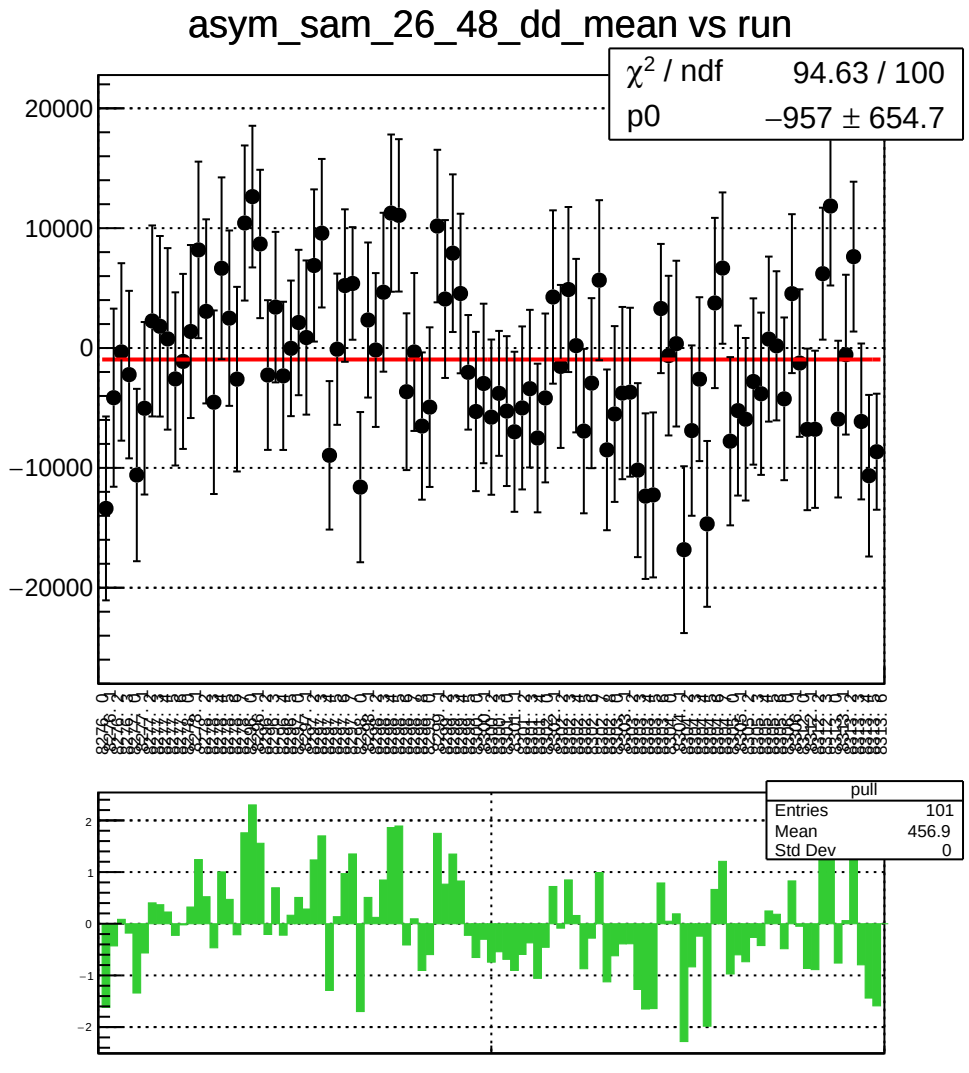

eigen_dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 118.5 / 100
p0 −64.96 ± 98.28
pull
Entries 101
Mean −263.5
Std Dev 0

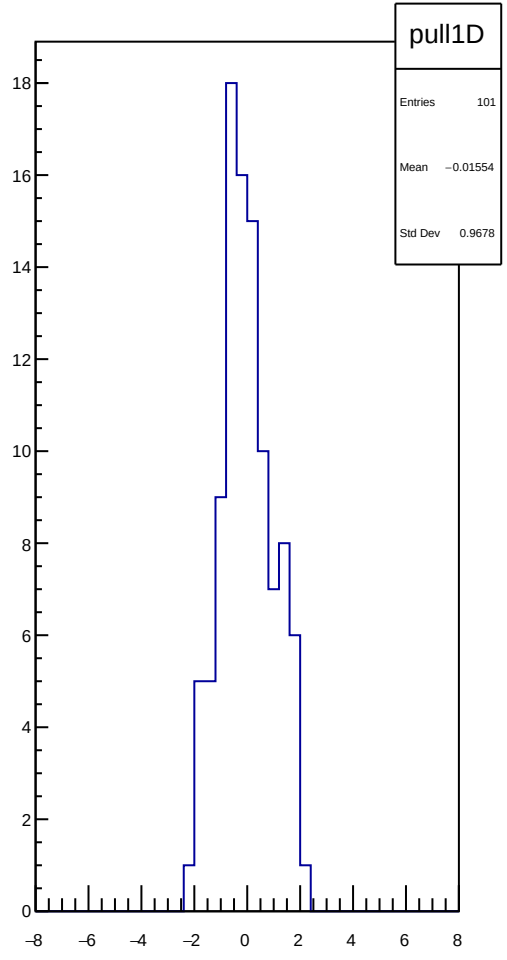

pull1D
Entries 101
Mean −0.007474
Std Dev 1.083


eigen_dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 5876 / 100
p0 96.33 ± 0.06949
130
125
120
115
110
105
100
95
90
85


asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 100 / 100
p0 930 ± 669.5
20000
10000
0
−10000
−20000
pull
Entries 101
Mean 652
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.01083
Std Dev 0.9951
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 5735 / 100
p0 656.2 ± 0.4734
800
750
700
650
600


asym_sam_26_48_dd_mean vs run
χ² / ndf 94.63 / 100
p0 −957 ± 654.7
20000
10000
0
−10000
−20000
pull
Entries 101
Mean 456.9
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 101
Mean −0.01554
Std Dev 0.9678
18
16
14
12
10
8
6
4
2
0
−8
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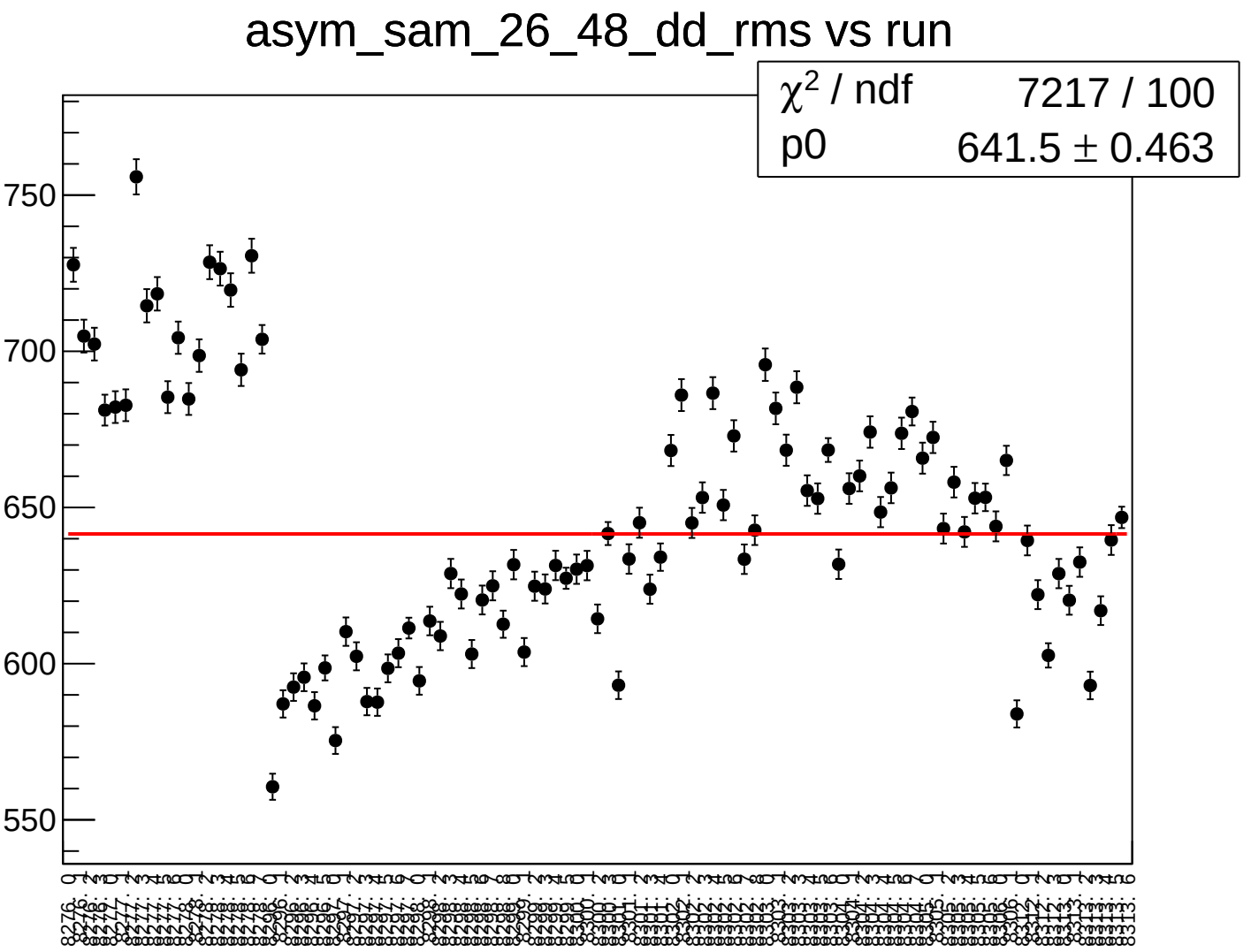
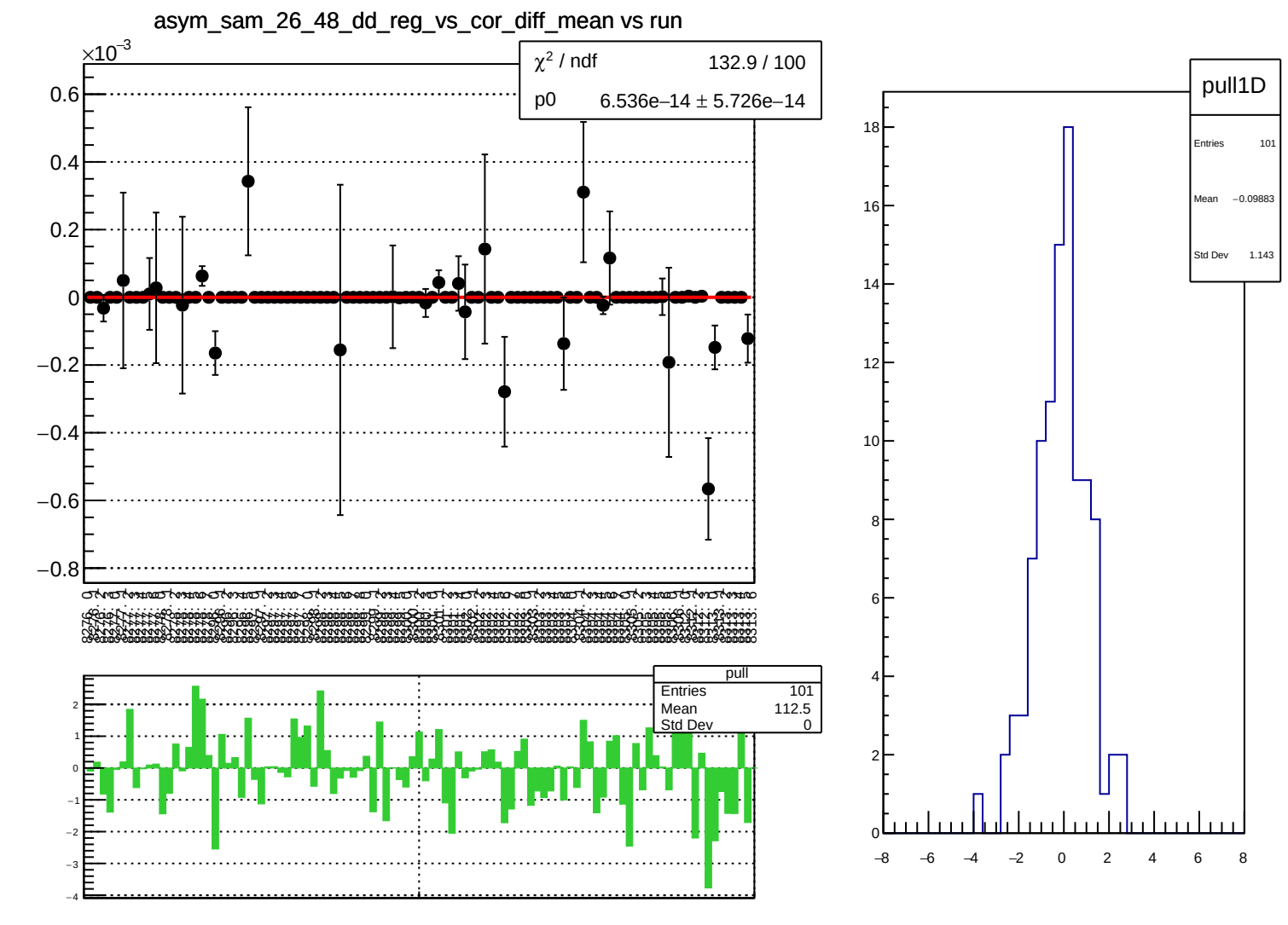
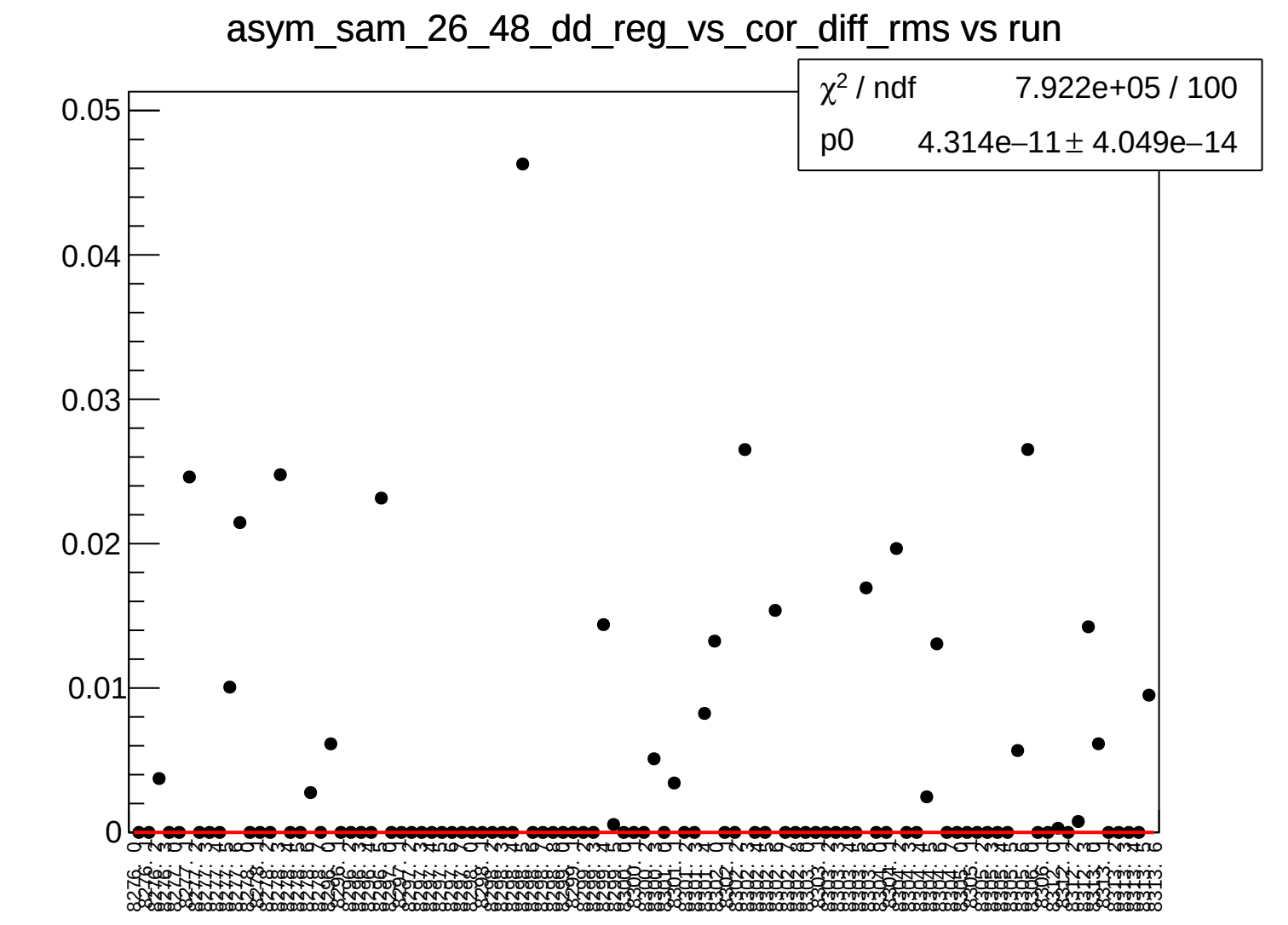
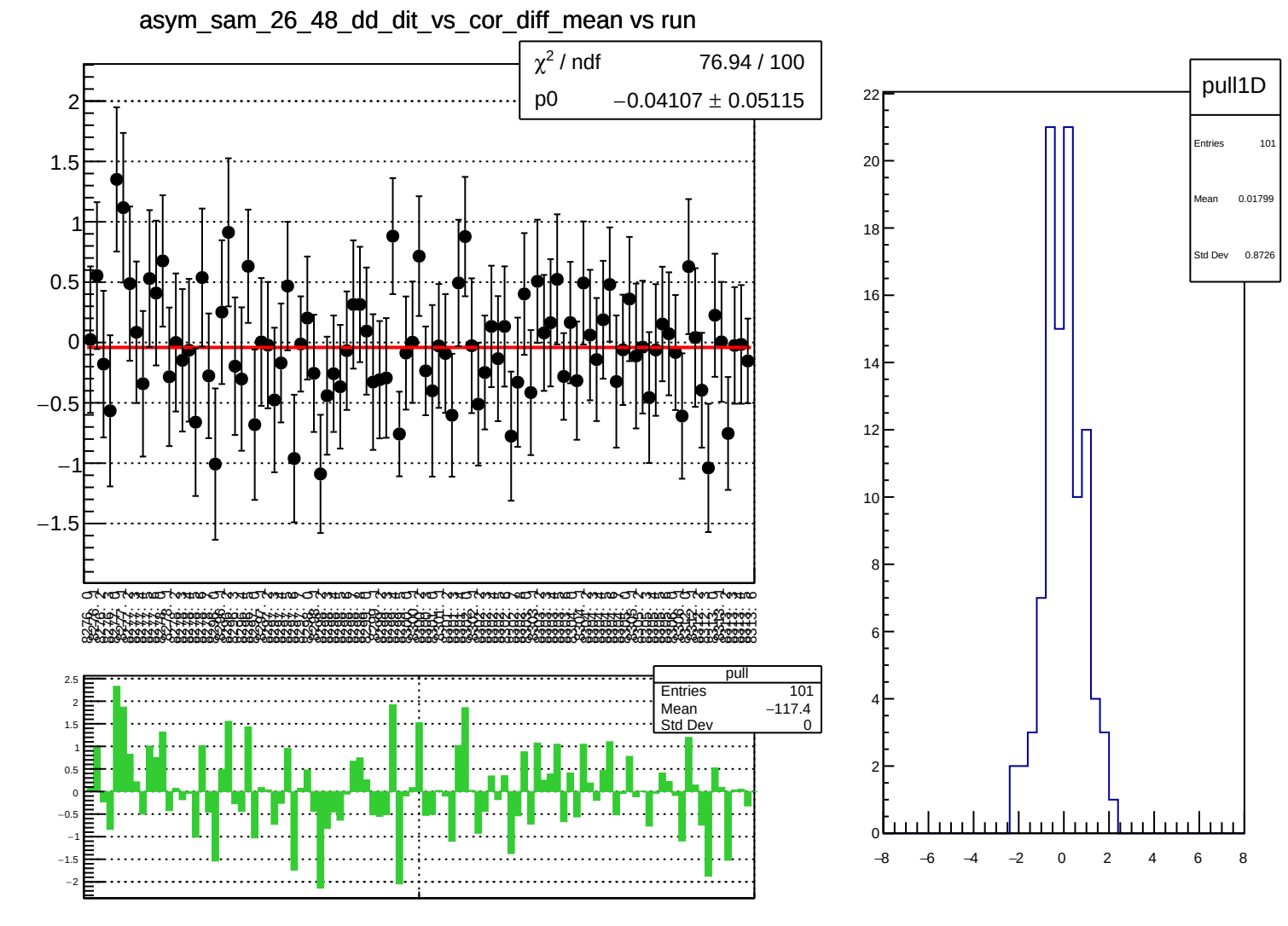
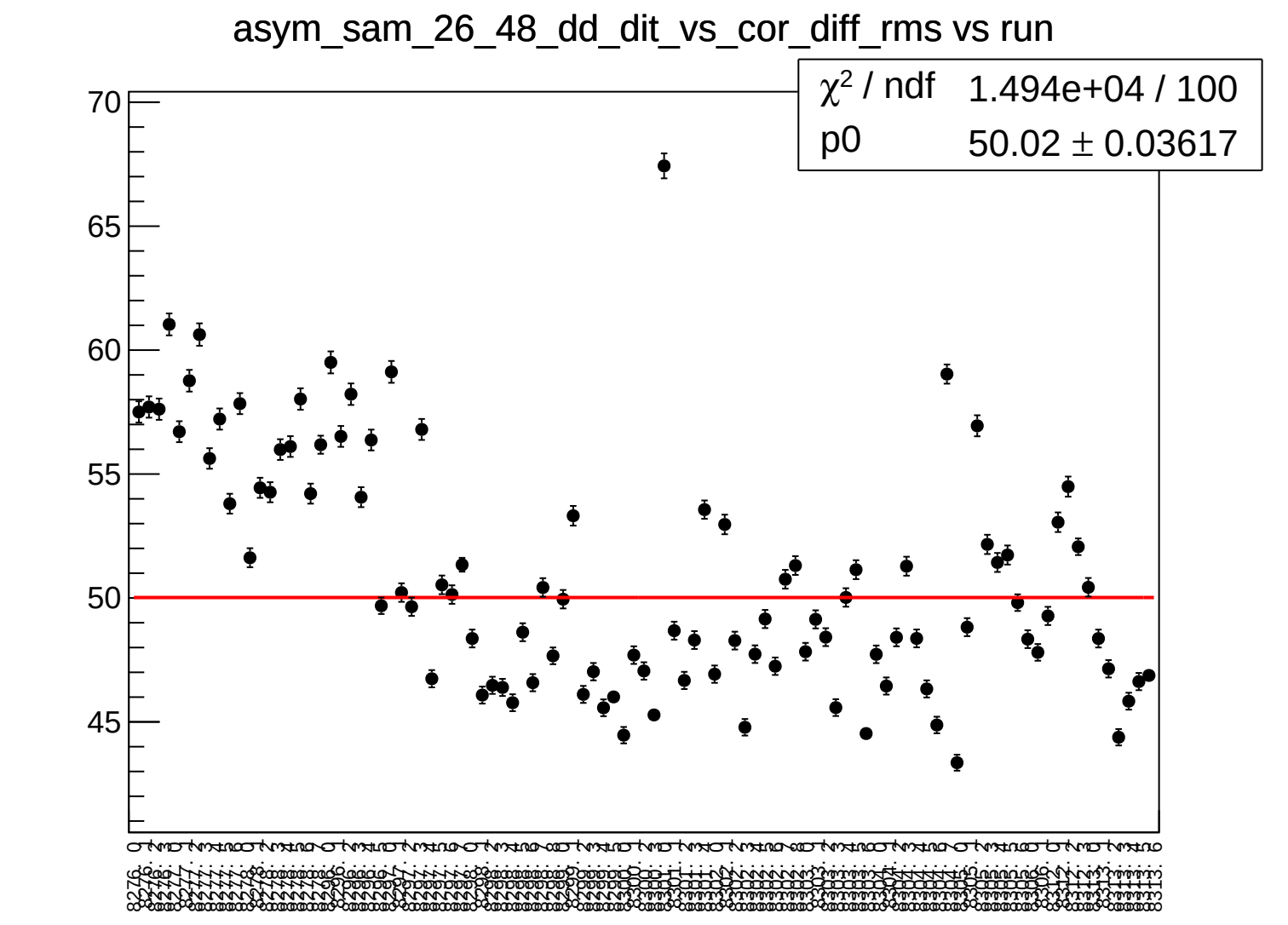
0
2
4
6
8

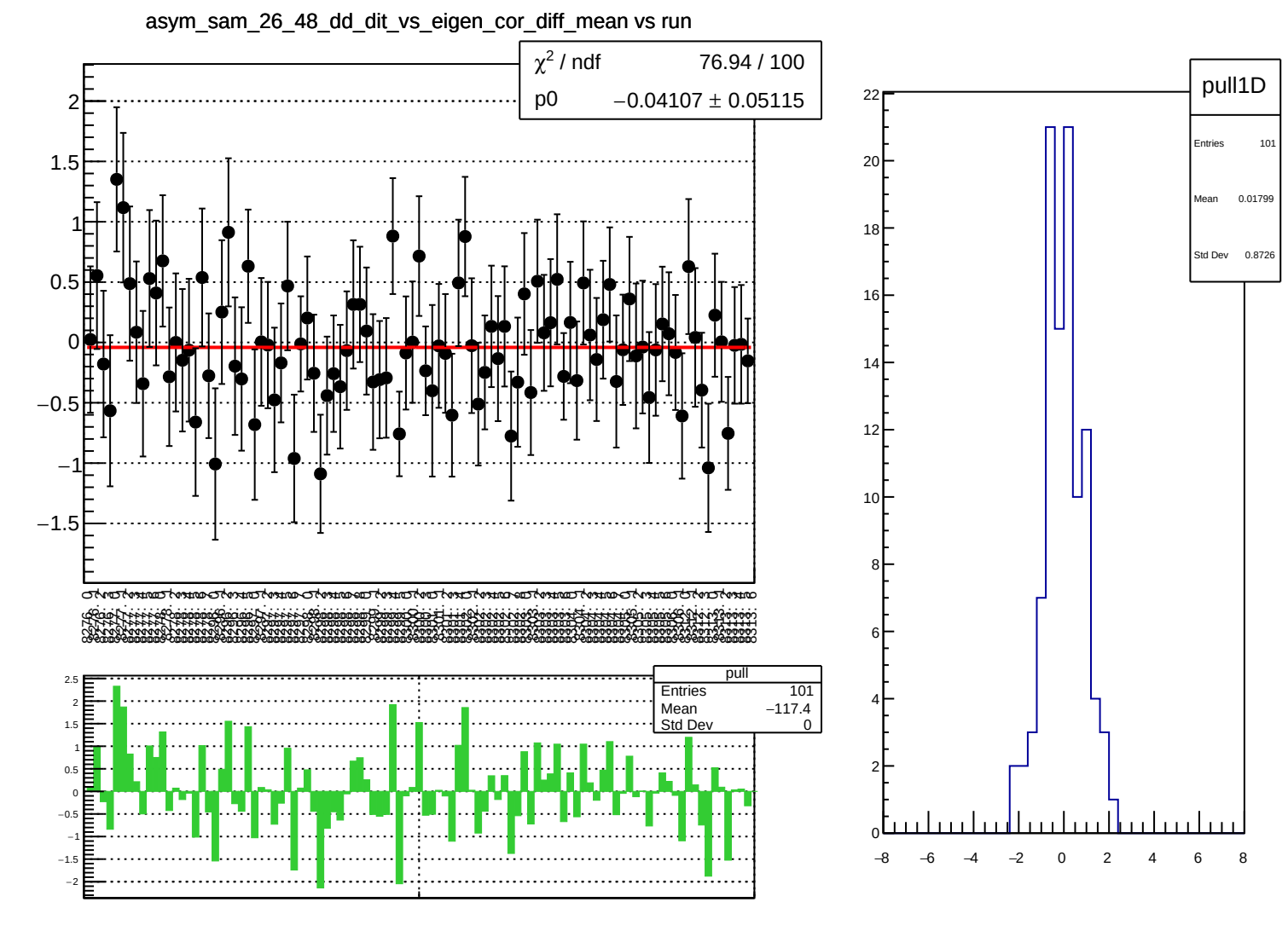

asym_sam_26_48_dd_rms vs run
χ² / ndf 7217 / 100
p0 641.5 ± 0.463
750
700
650
600
550

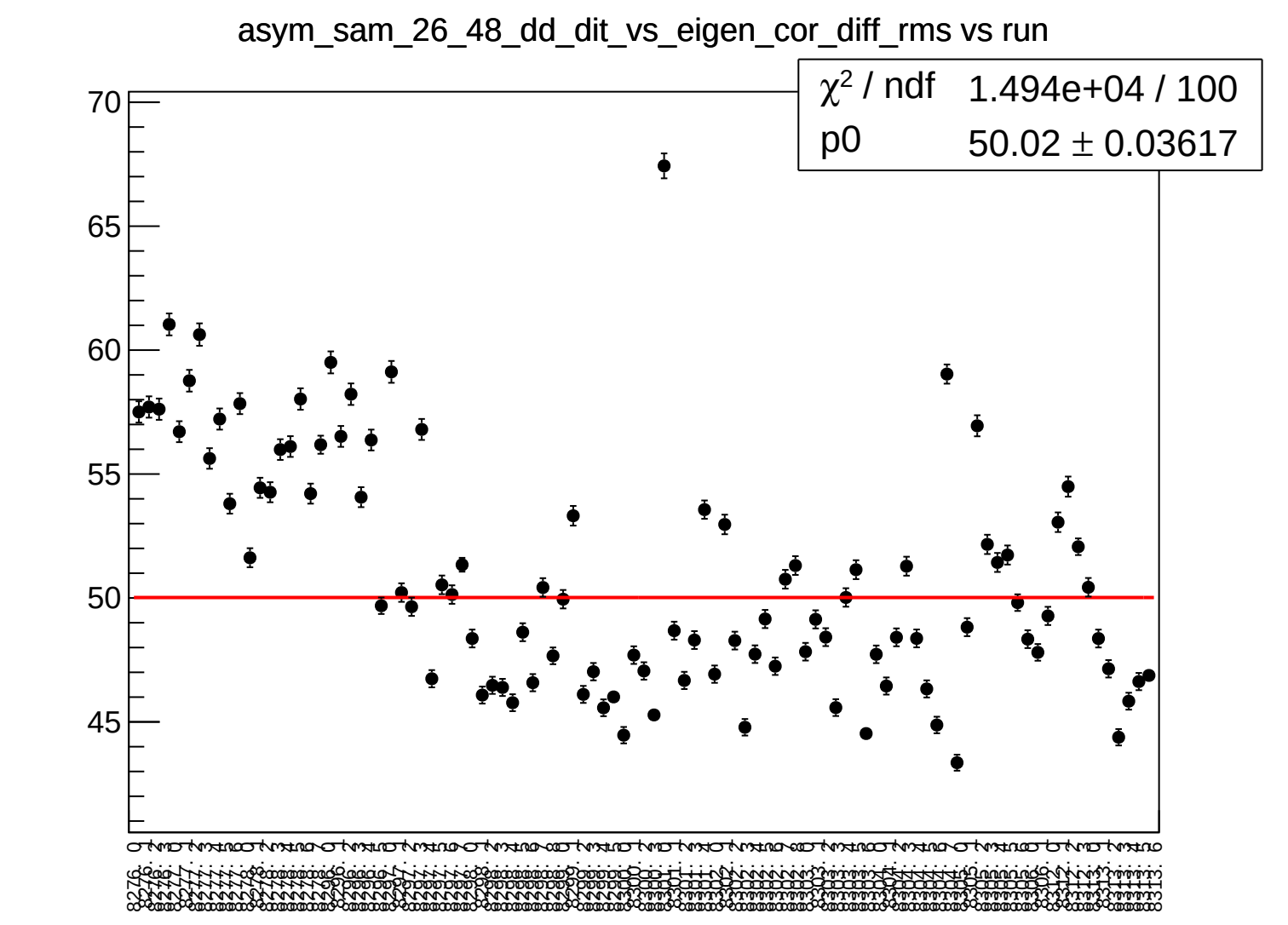

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 132.9 / 100
p0 6.536e−14 ± 5.726e−14
pull
Entries 101
Mean 112.5
Std Dev 0
pull1D
Entries 101
Mean −0.09883
Std Dev 1.143

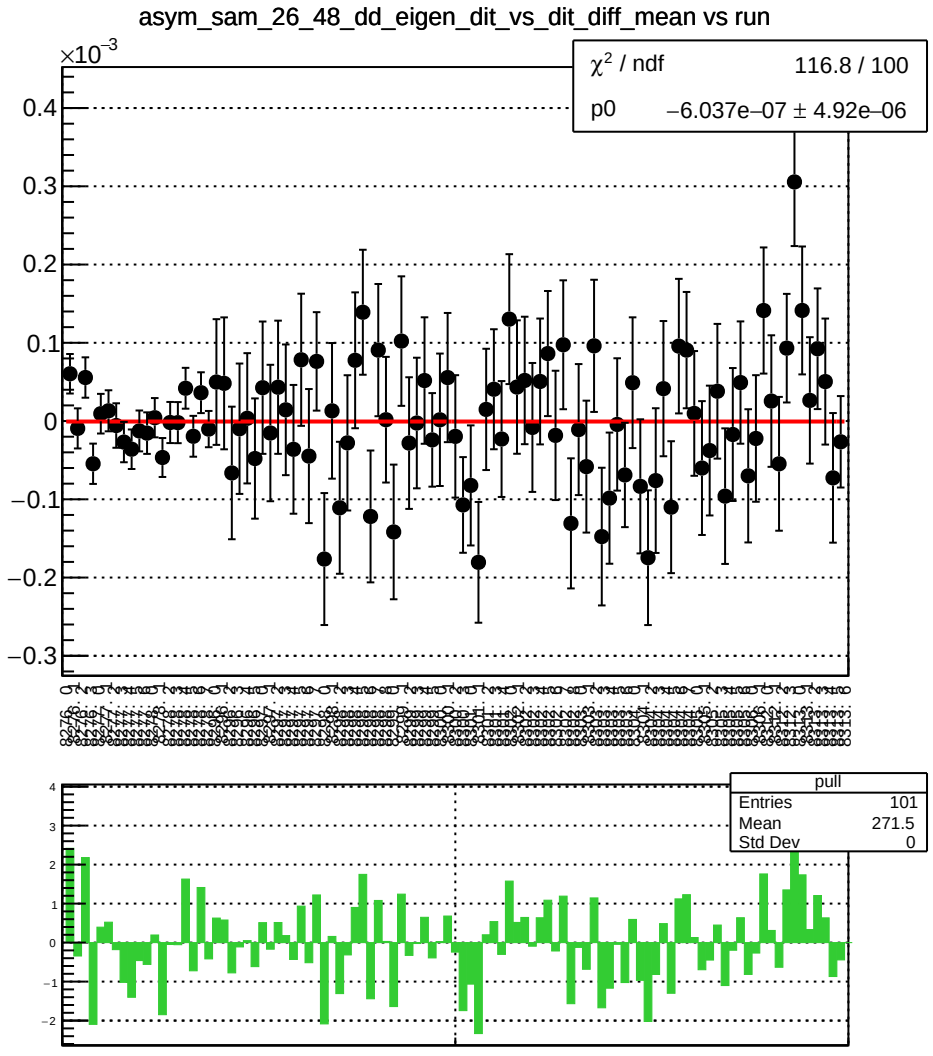

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.922e+05 / 100
p0 4.314e−11 ± 4.049e−14
0.05
0.04
0.03
0.02
0.01
0

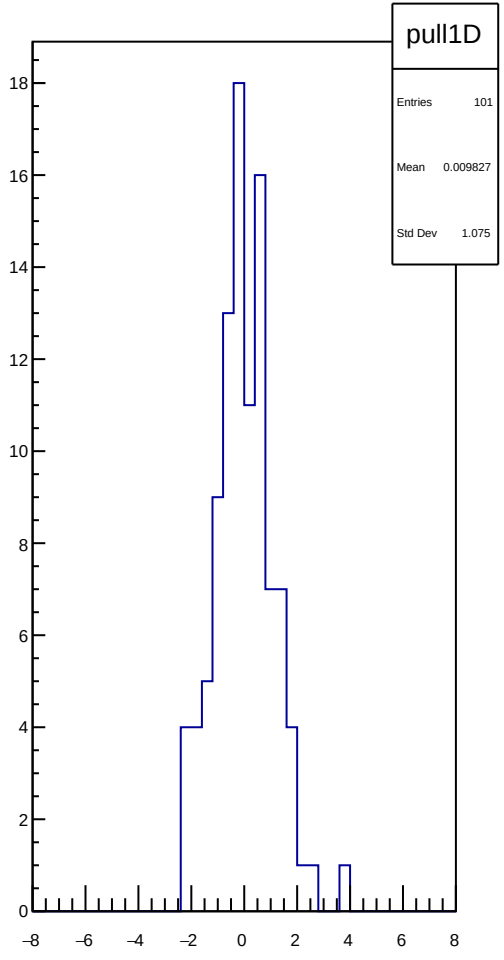

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 76.94 / 100
p0 −0.04107 ± 0.05115
pull
Entries 101
Mean −117.4
Std Dev 0
pull1D
Entries 101
Mean 0.01799
Std Dev 0.8726

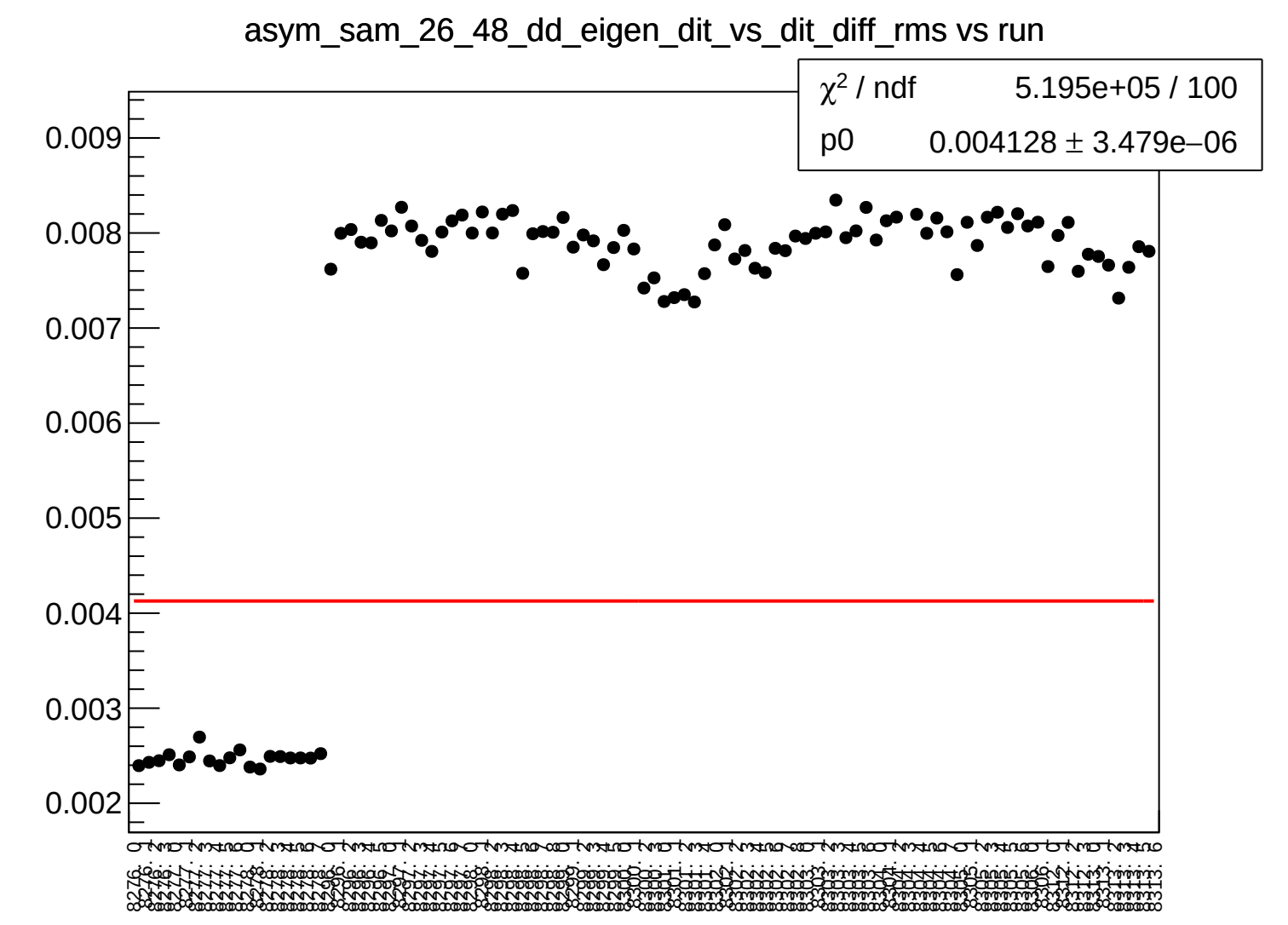

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.494e+04 / 100
p0 50.02 ± 0.03617
70
65
60
55
50
45

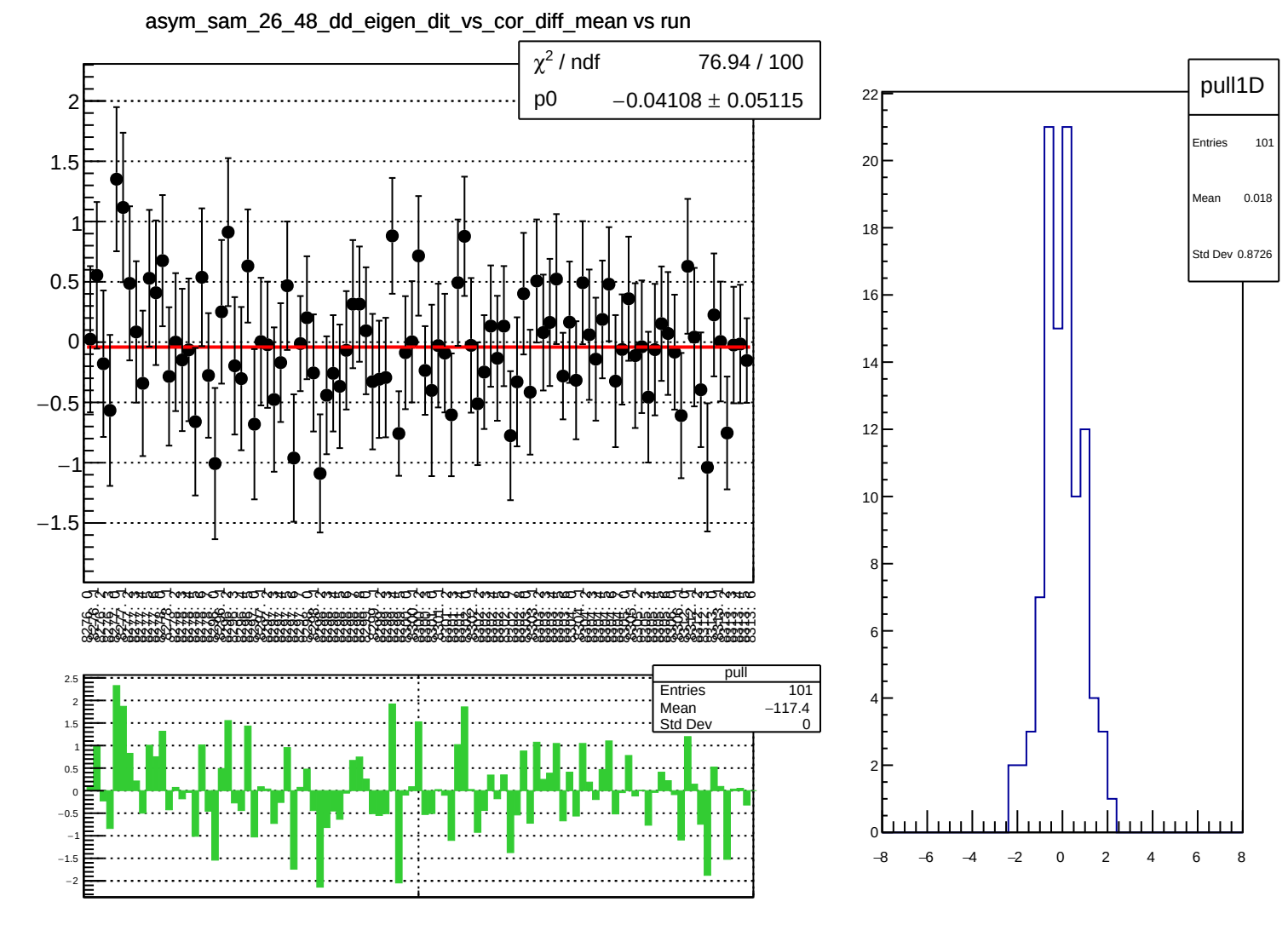

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.94 / 100
p0 −0.04107 ± 0.05115
pull
Entries 101
Mean −117.4
Std Dev 0
pull1D
Entries 101
Mean 0.01799
Std Dev 0.8726

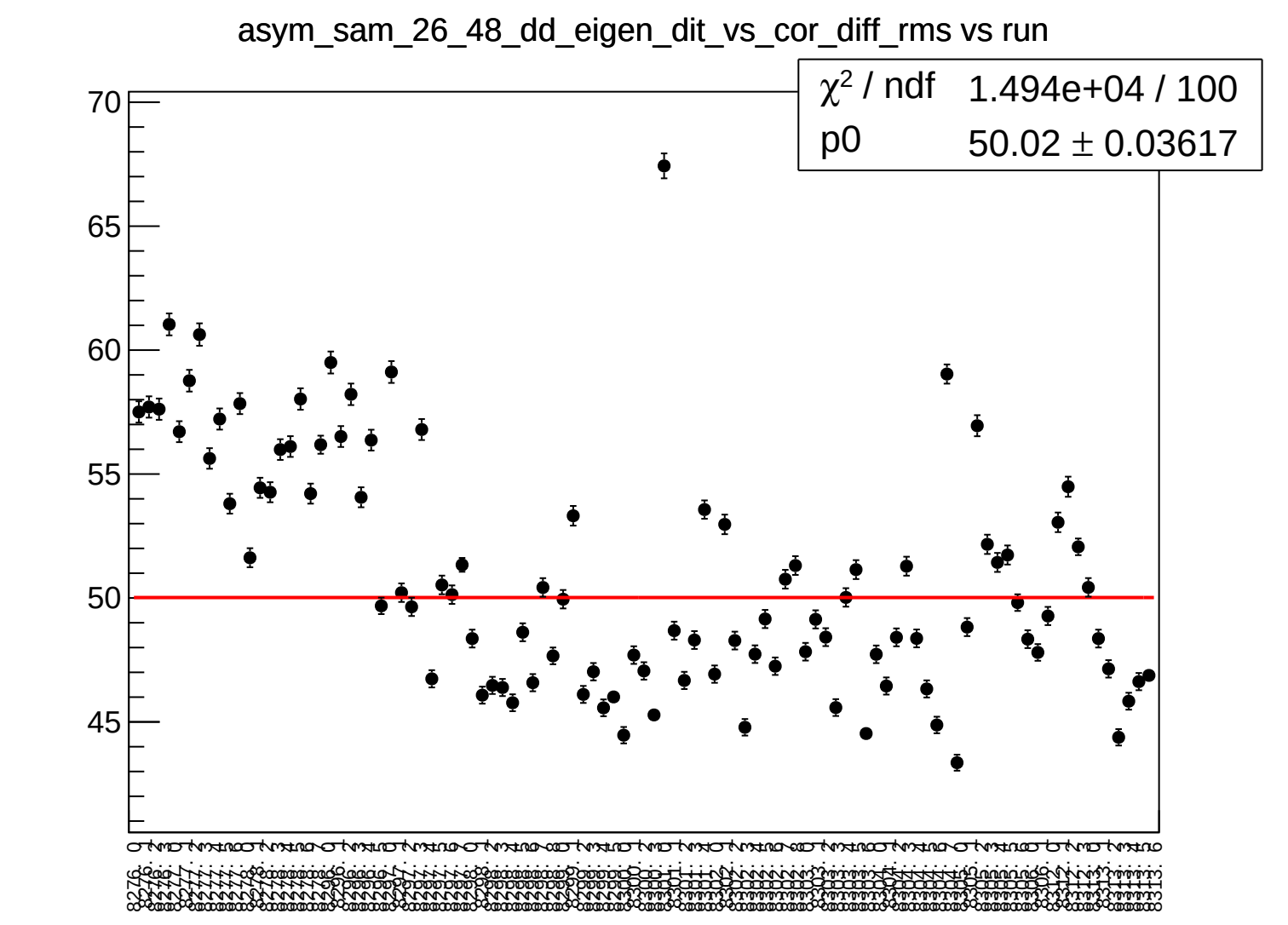

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.494e+04 / 100
p0 50.02 ± 0.03617
70
65
60
55
50
45

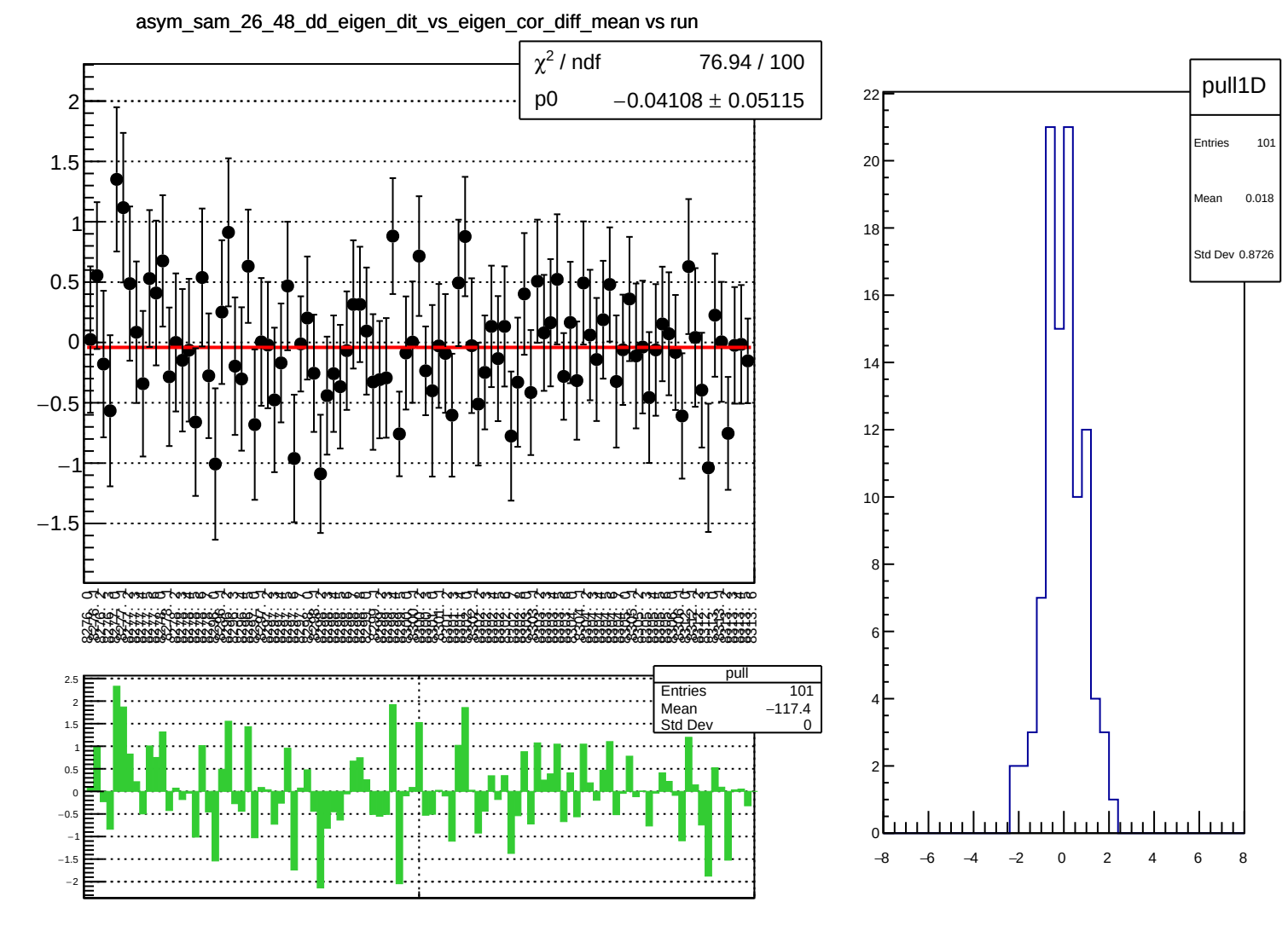

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 116.8 / 100
p0 −6.037e−07 ± 4.92e−06
pull
Entries 101
Mean 271.5
Std Dev 0

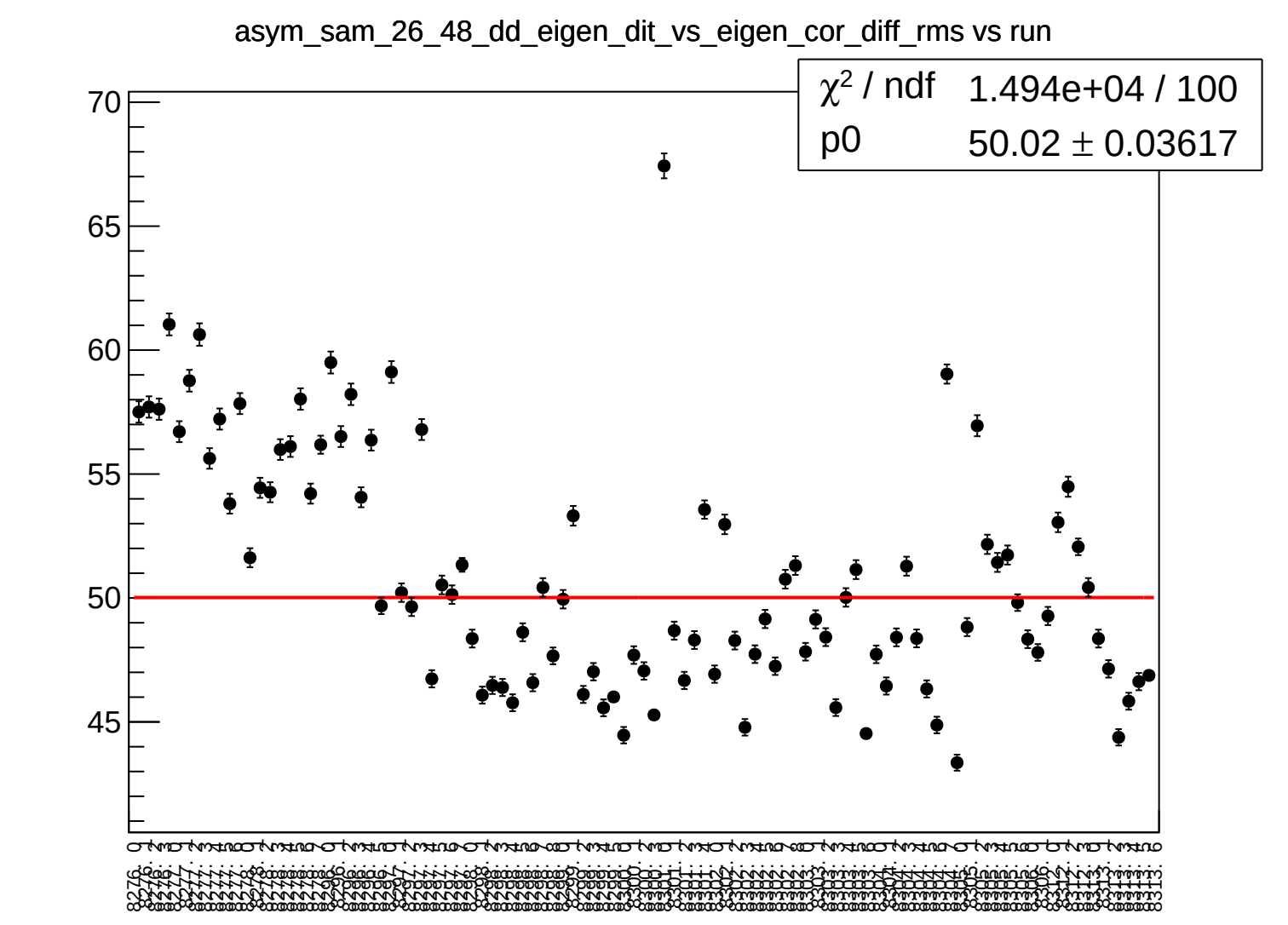

pull1D
Entries 101
Mean 0.009827
Std Dev 1.075

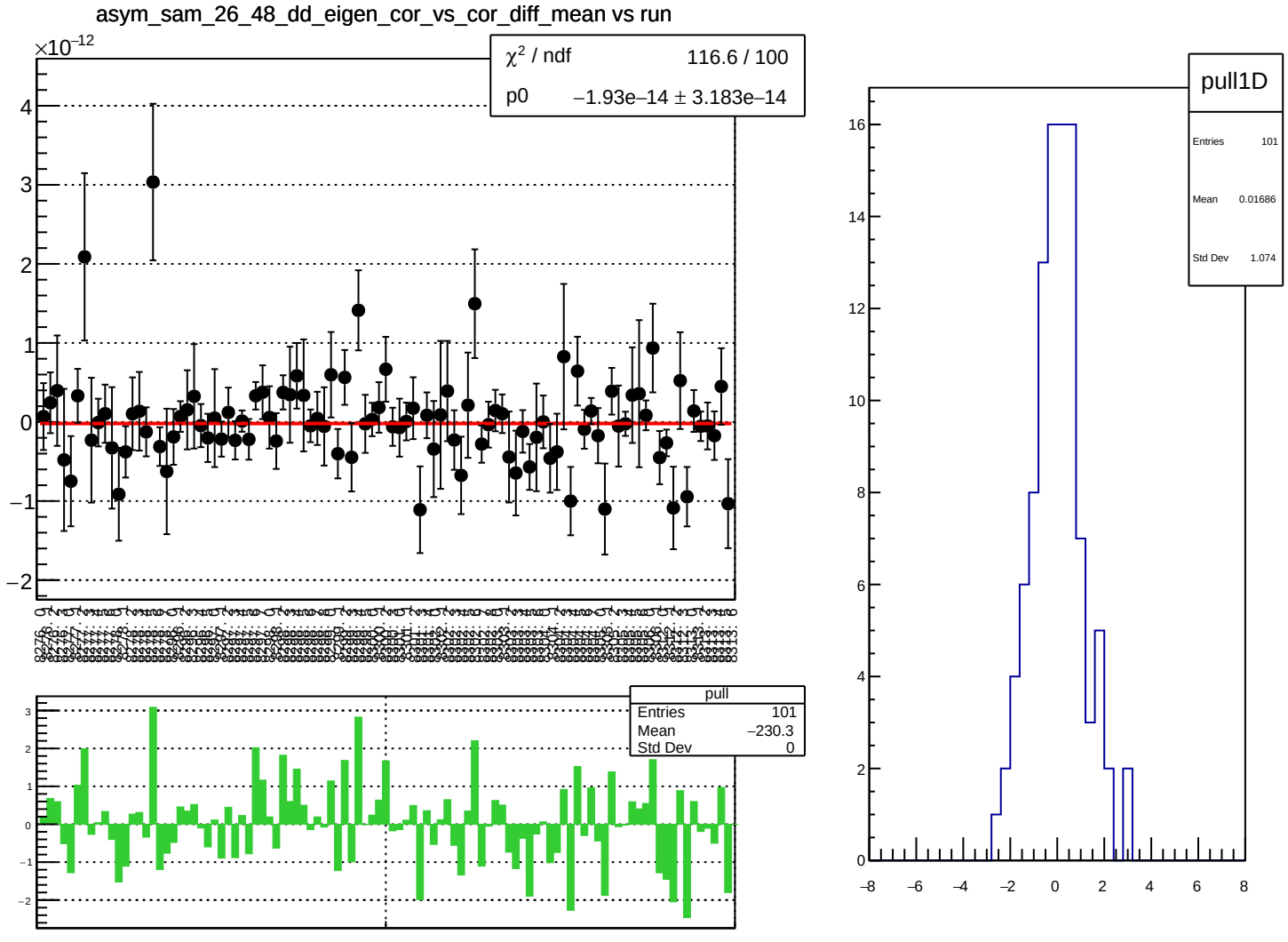

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.195e+05 / 100
p0 0.004128 ± 3.479e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

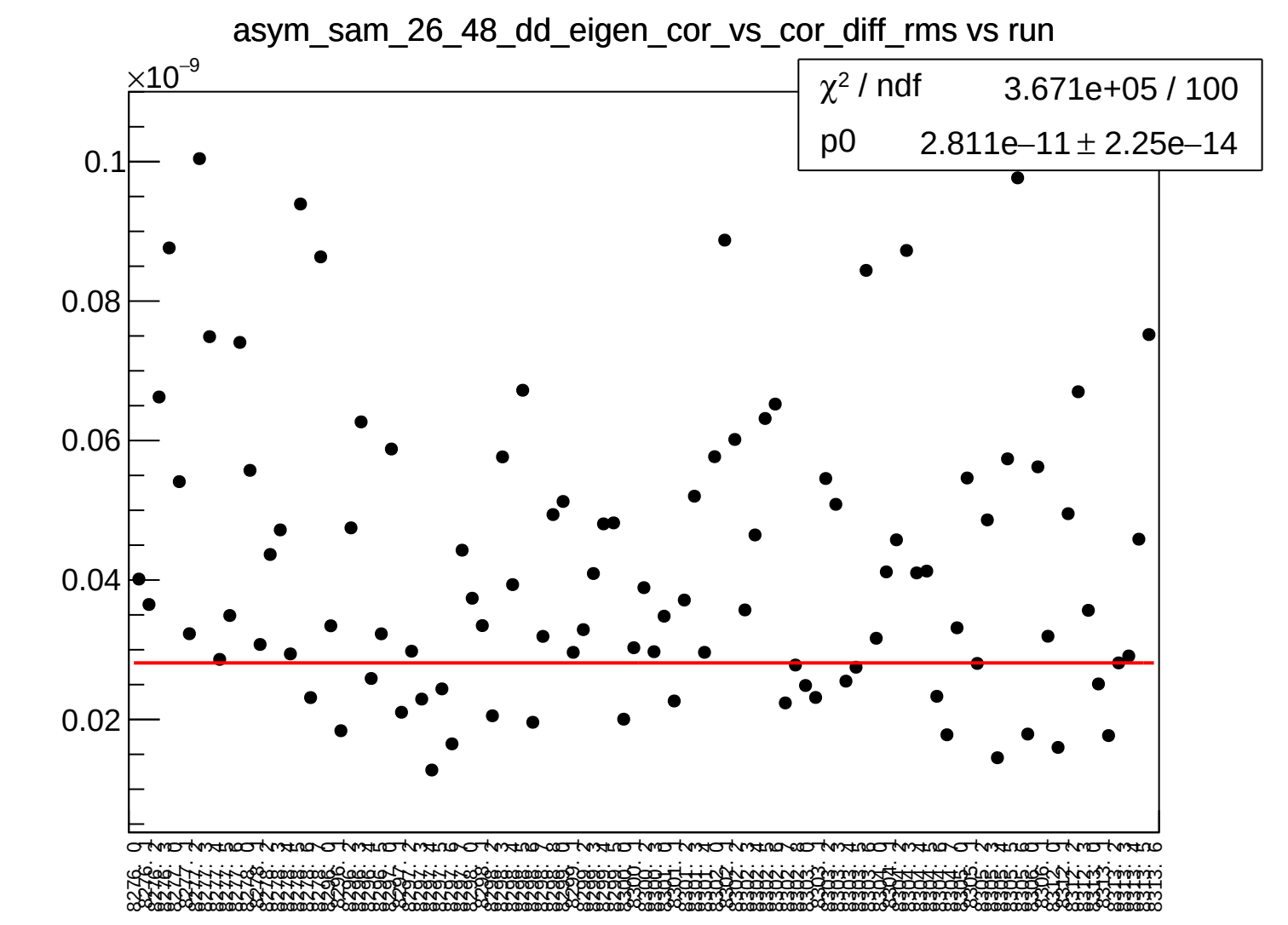

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.94 / 100
p0 −0.04108 ± 0.05115
pull
Entries 101
Mean −117.4
Std Dev 0
pull1D
Entries 101
Mean 0.018
Std Dev 0.8726

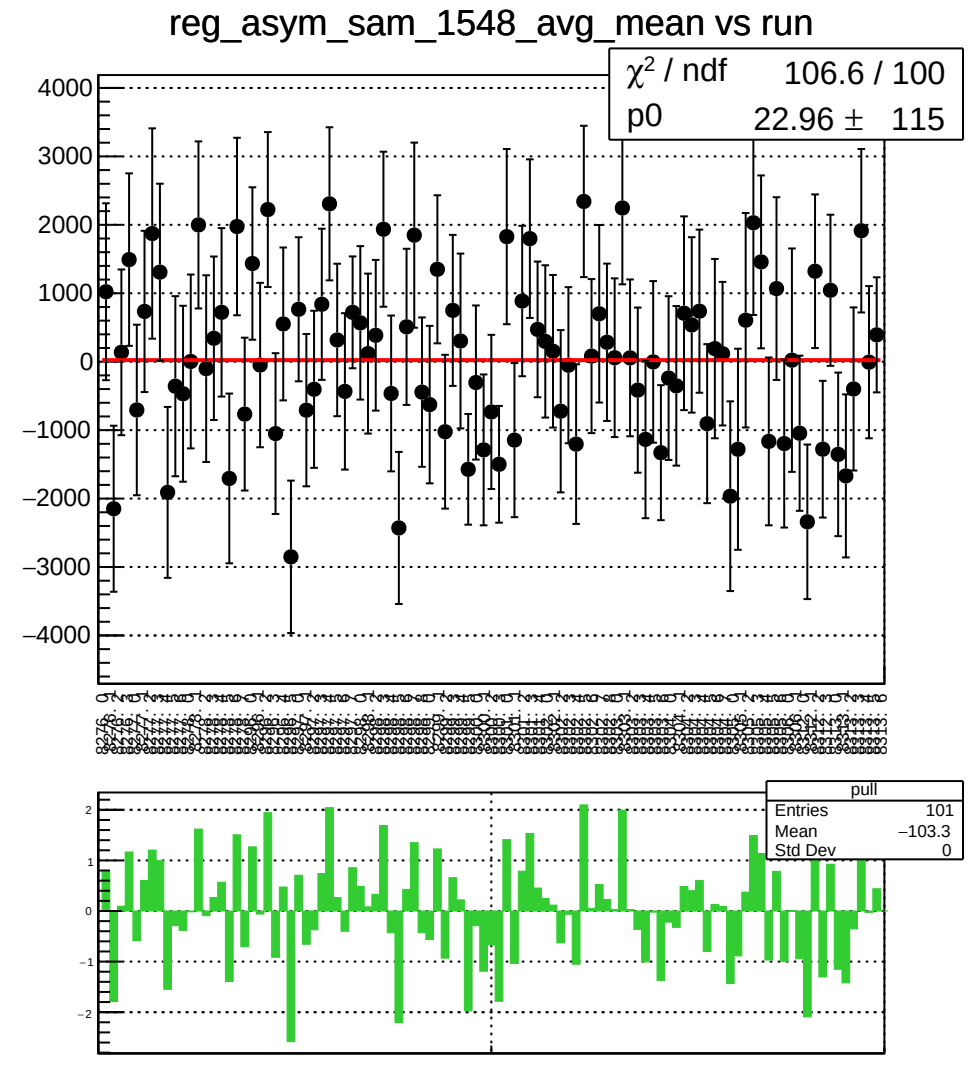

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.494e+04 / 100
p0 50.02 ± 0.03617
70
65
60
55
50
45

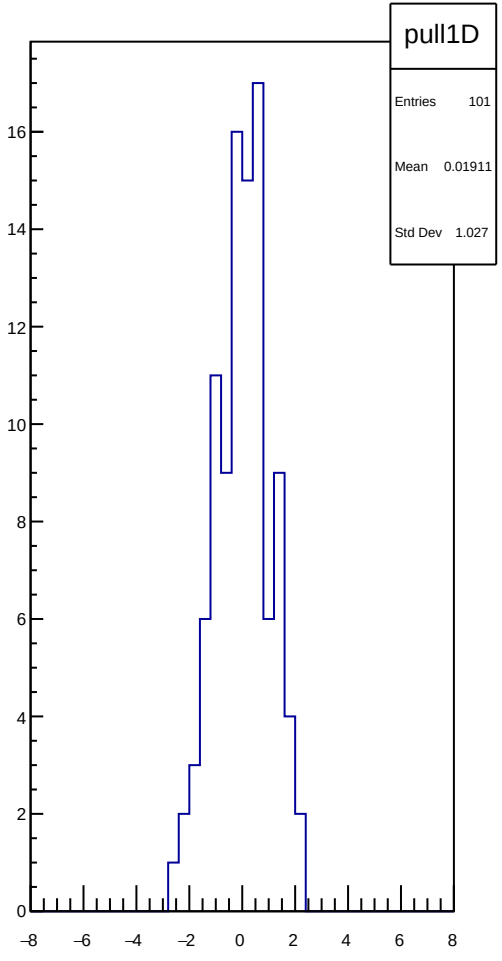

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.94 / 100
p0 −0.04108 ± 0.05115
pull
Entries 101
Mean −117.4
Std Dev 0
pull1D
Entries 101
Mean 0.018
Std Dev 0.8726

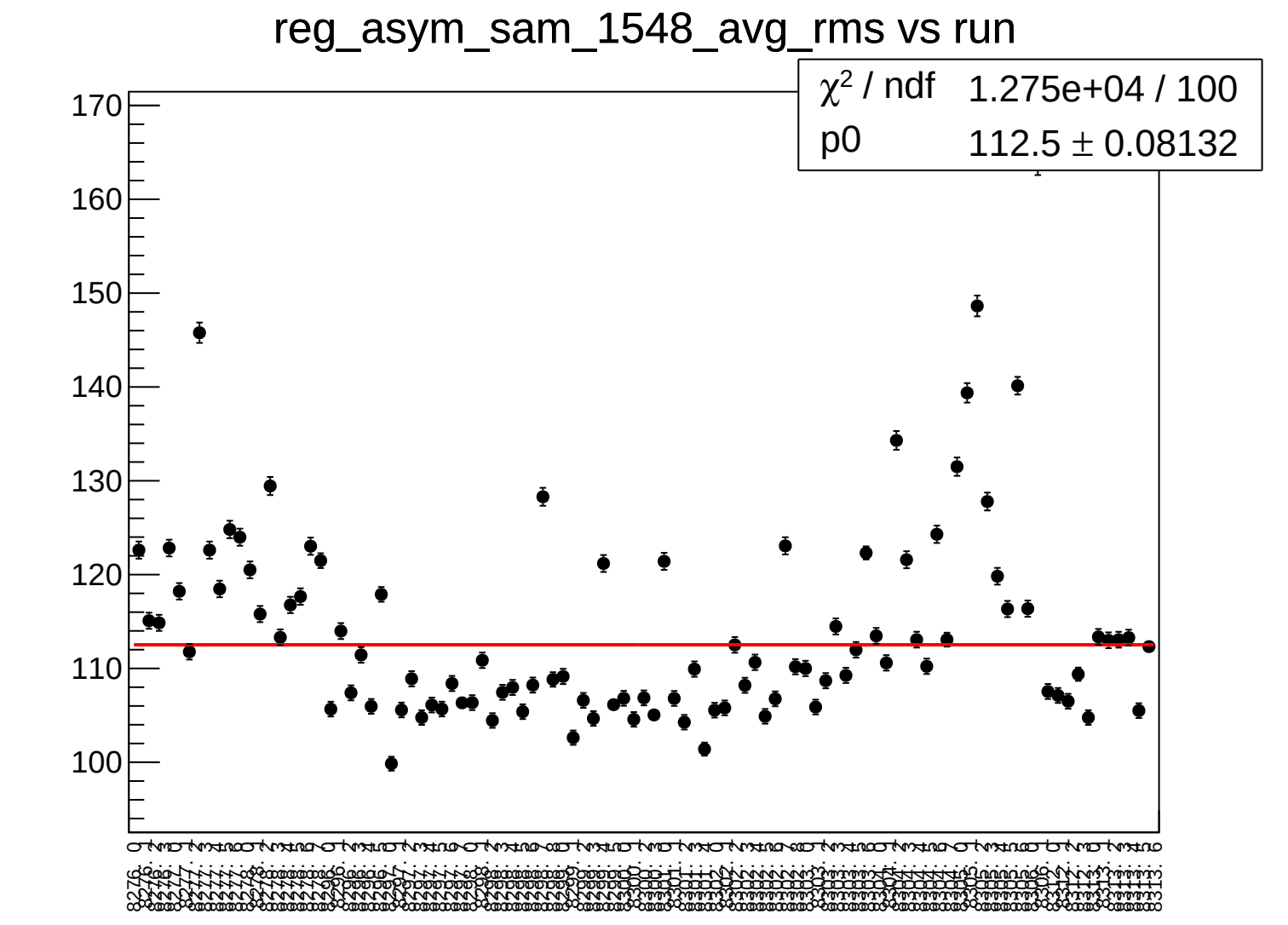

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.494e+04 / 100
p0 50.02 ± 0.03617
70
65
60
55
50
45

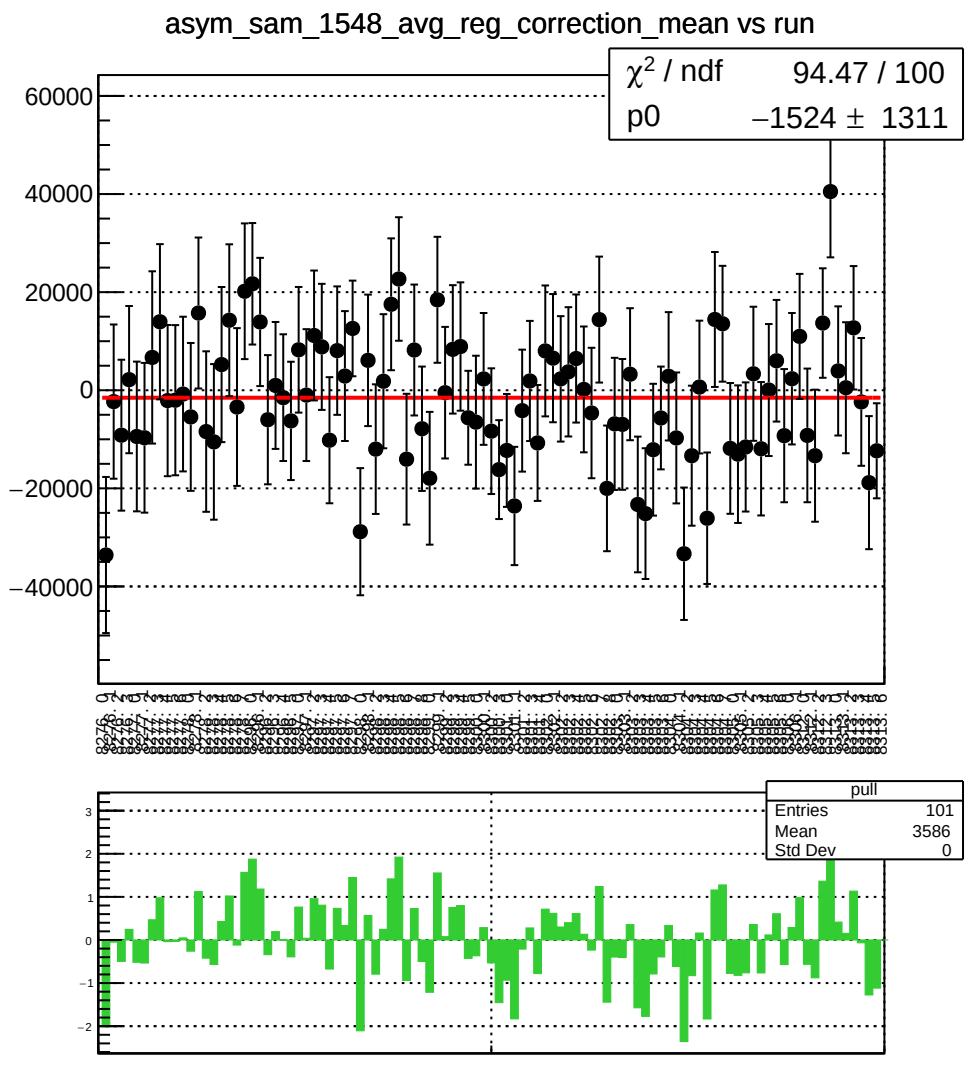

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 116.6 / 100
p0 −1.93e−14 ± 3.183e−14
pull
Entries 101
Mean −230.3
Std Dev 0
pull1D
Entries 101
Mean 0.01686
Std Dev 1.074

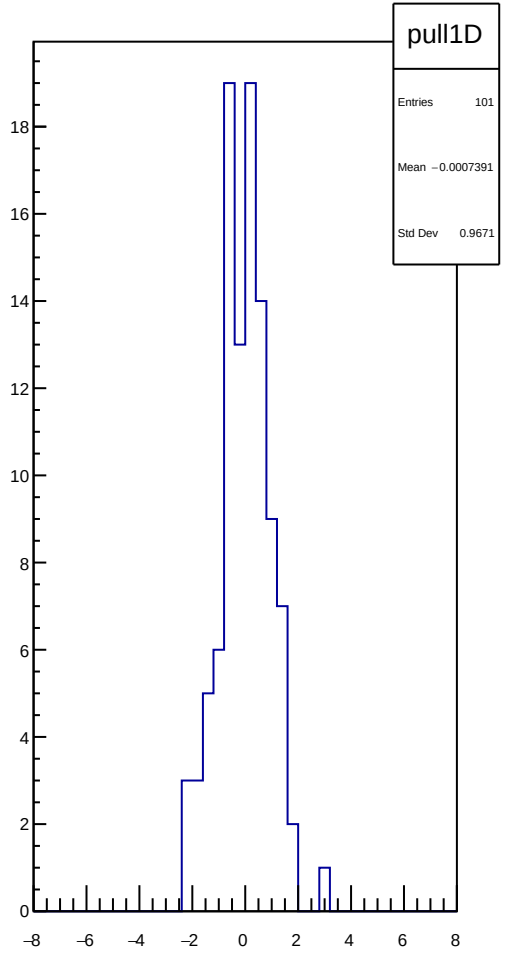

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.671e+05 / 100
p0 2.811e−11 ± 2.25e−14
0.1
0.08
0.06
0.04
0.02

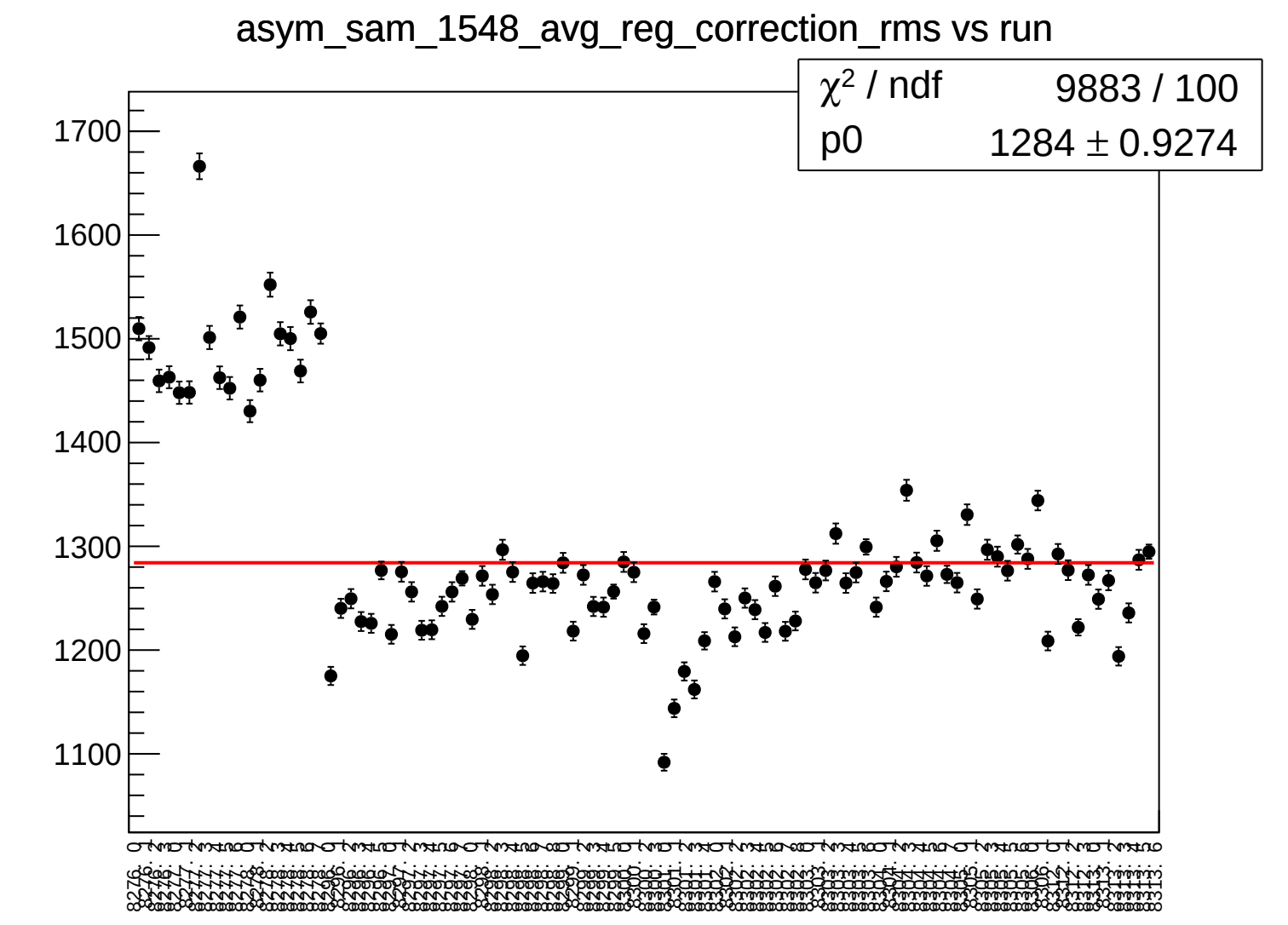

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 106.6 / 100
p0 22.96 ± 115
pull
Entries 101
Mean −103.3
Std Dev 0

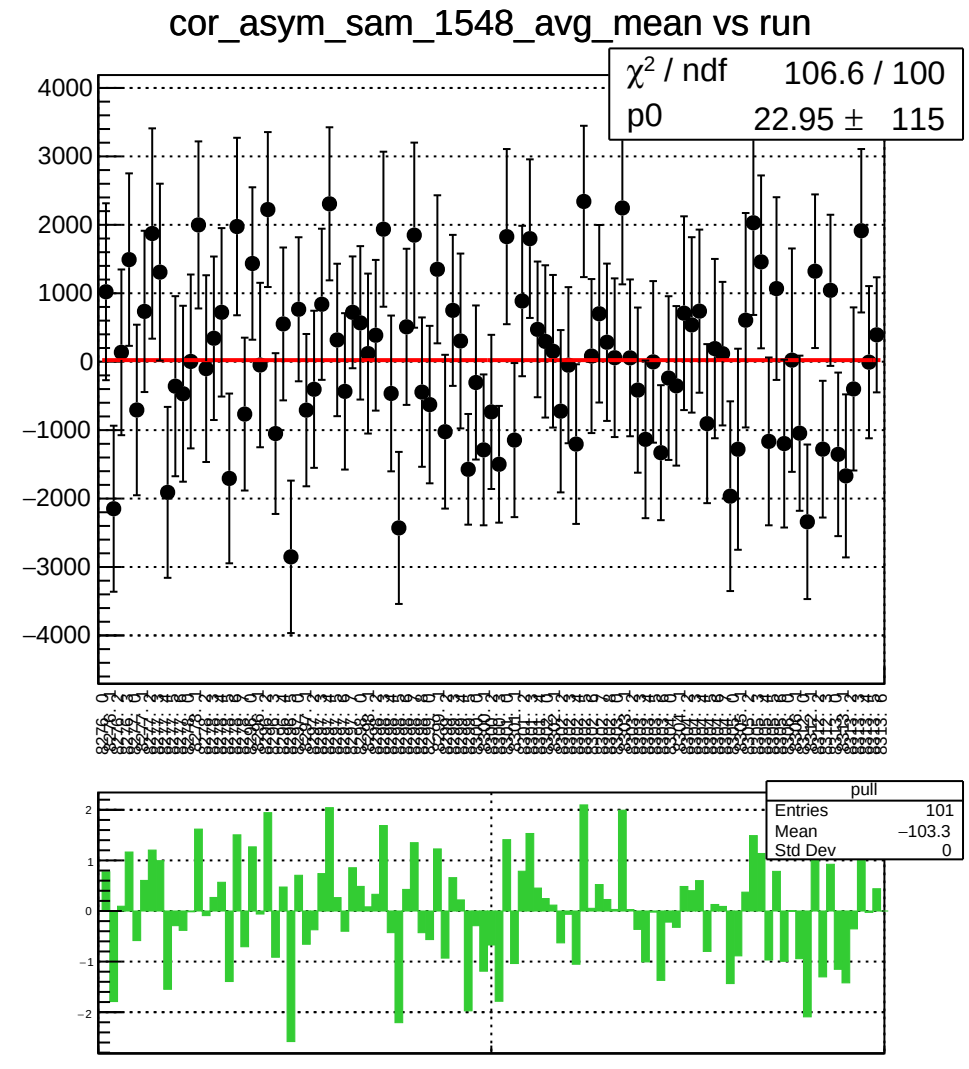

pull1D
Entries 101
Mean 0.01911
Std Dev 1.027

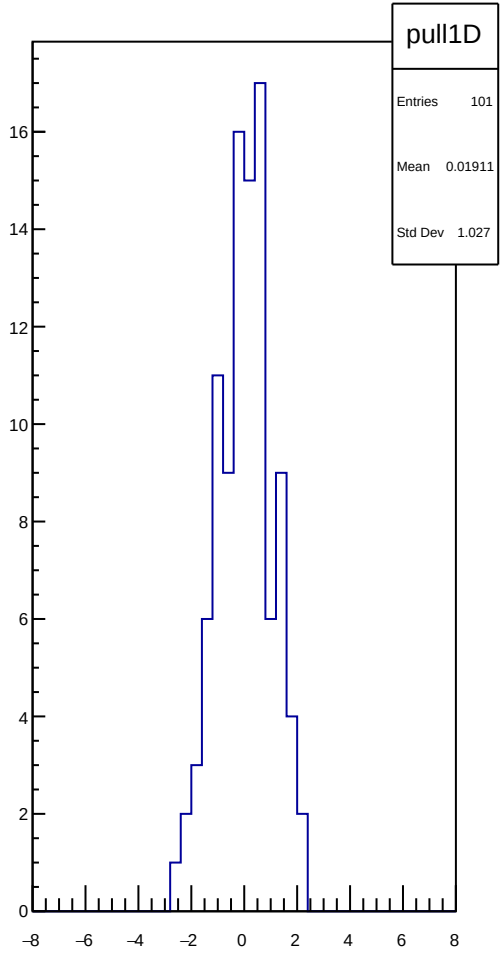

reg_asym_sam_1548_avg_rms vs run
χ² / ndf 1.275e+04 / 100
p0 112.5 ± 0.08132
170
160
150
140
130
120
110
100

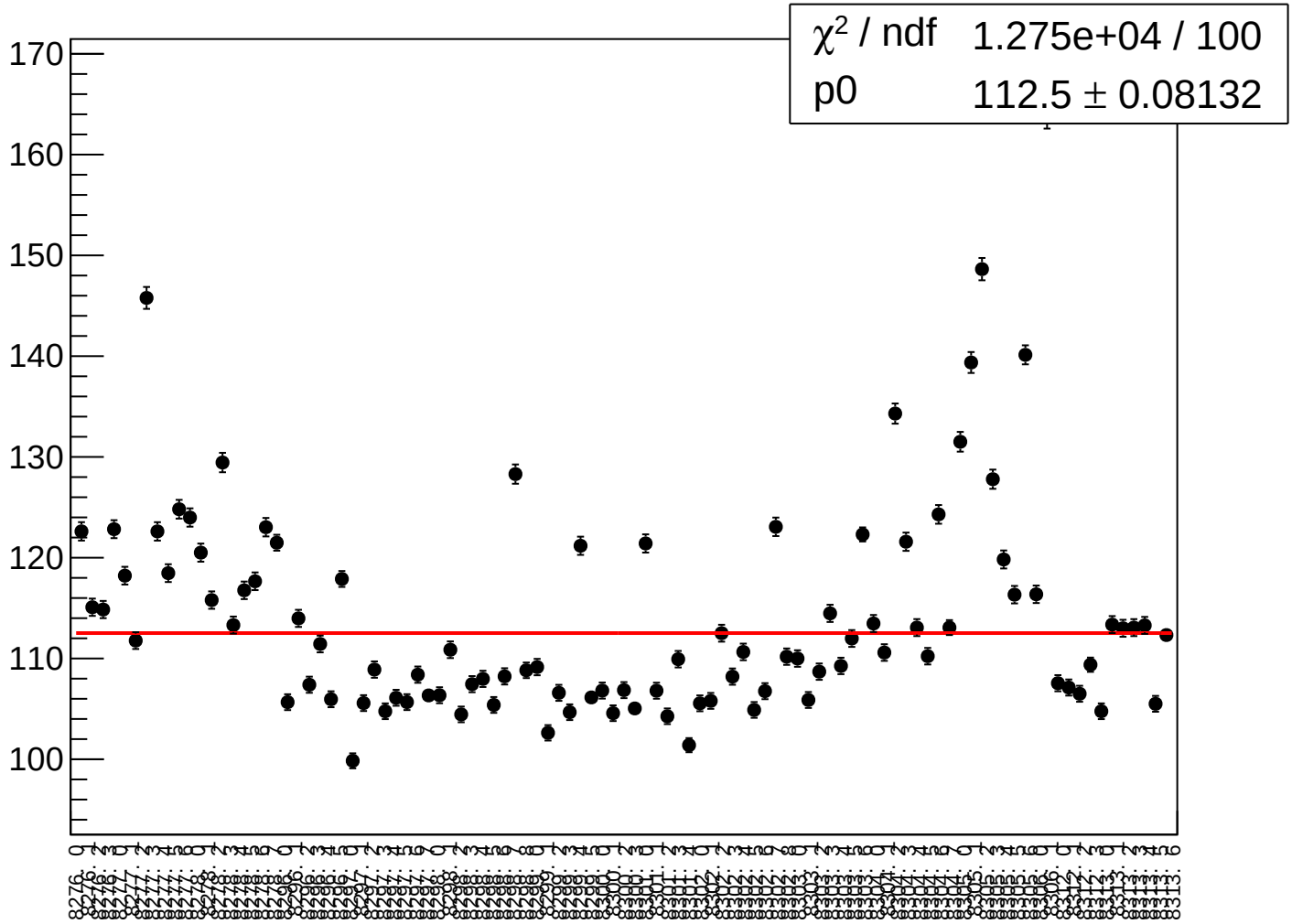

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 94.47 / 100
p0 −1524 ± 1311
60000
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 3586
Std Dev 0
3
2
1
0
−1
−2

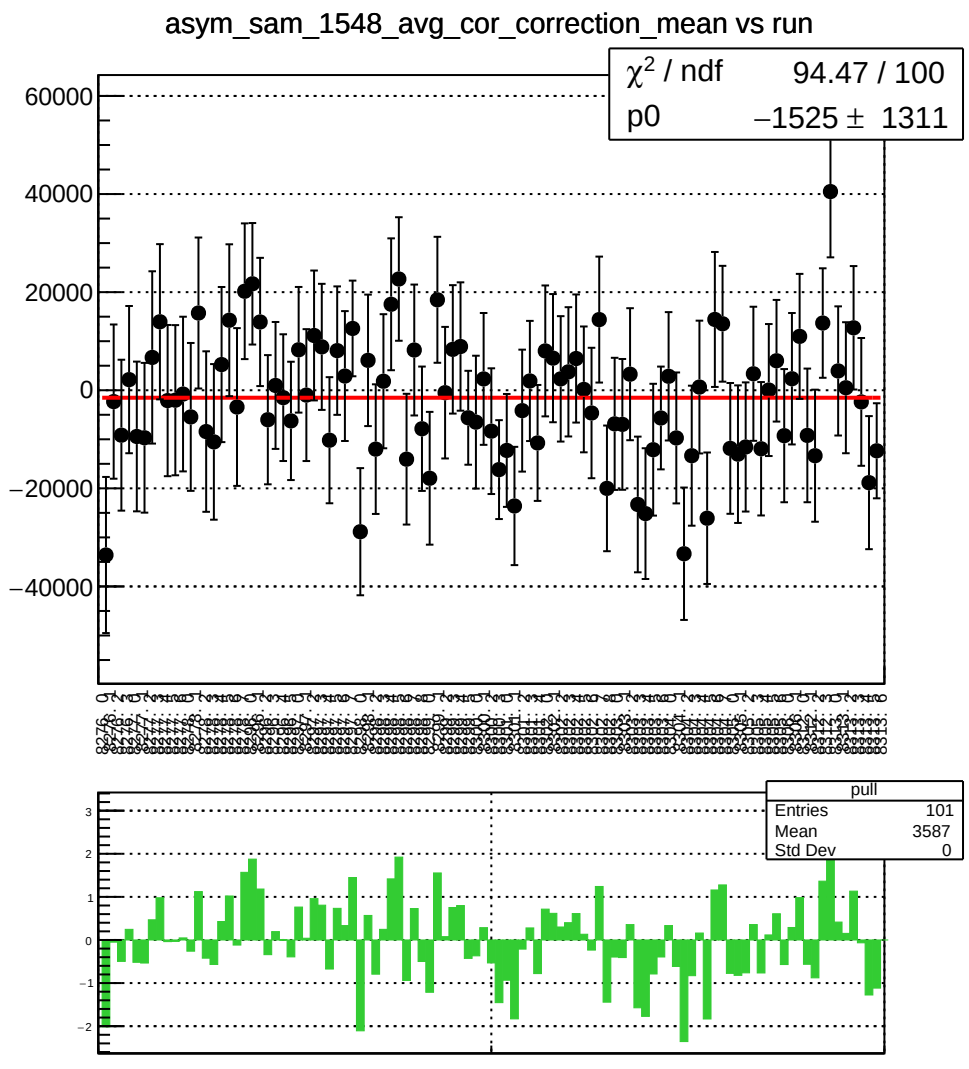

pull1D
Entries 101
Mean −0.0007391
Std Dev 0.9671
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

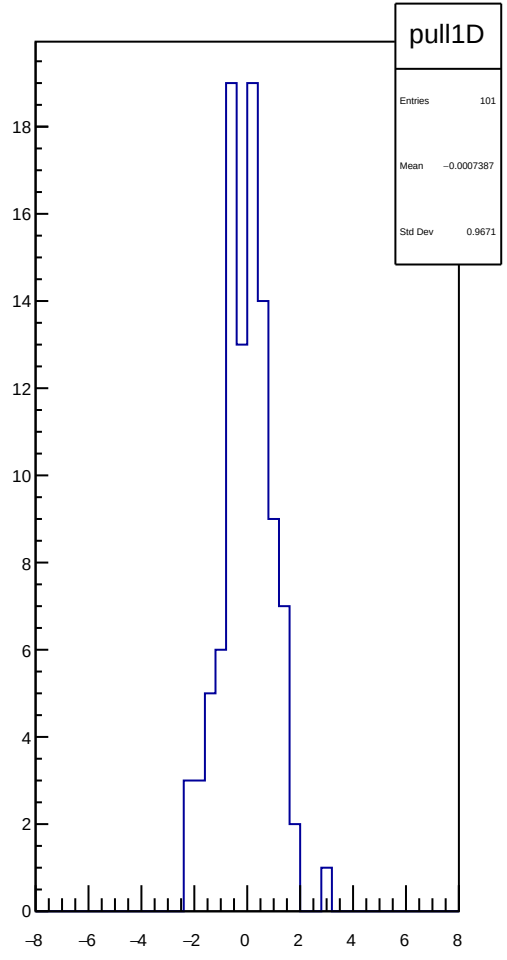

asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 9883 / 100
p0 1284 ± 0.9274
1700
1600
1500
1400
1300
1200
1100

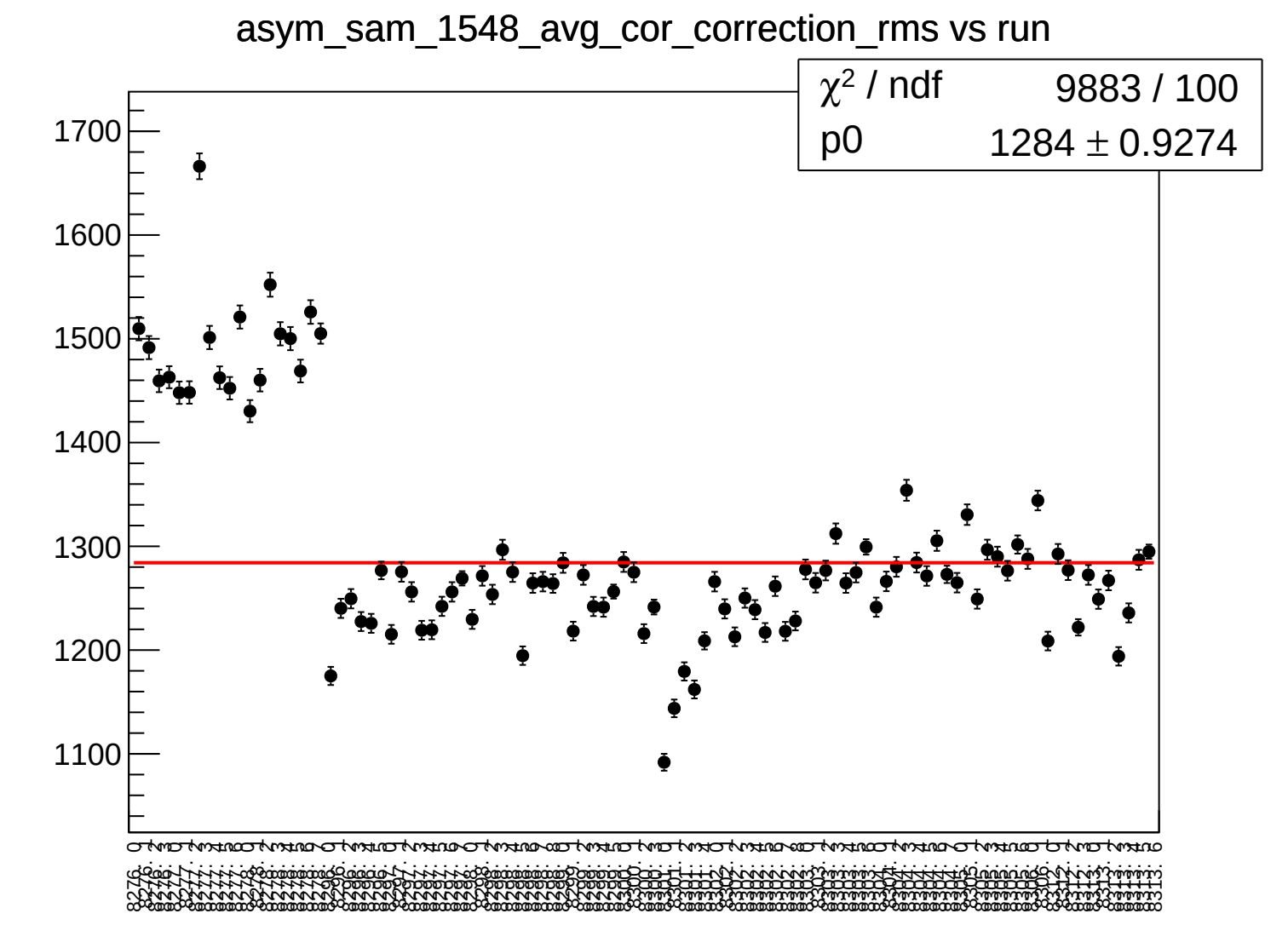

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 106.6 / 100
p0 22.95 ± 115
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 101
Mean −103.3
Std Dev 0
2
1
0
−1
−2

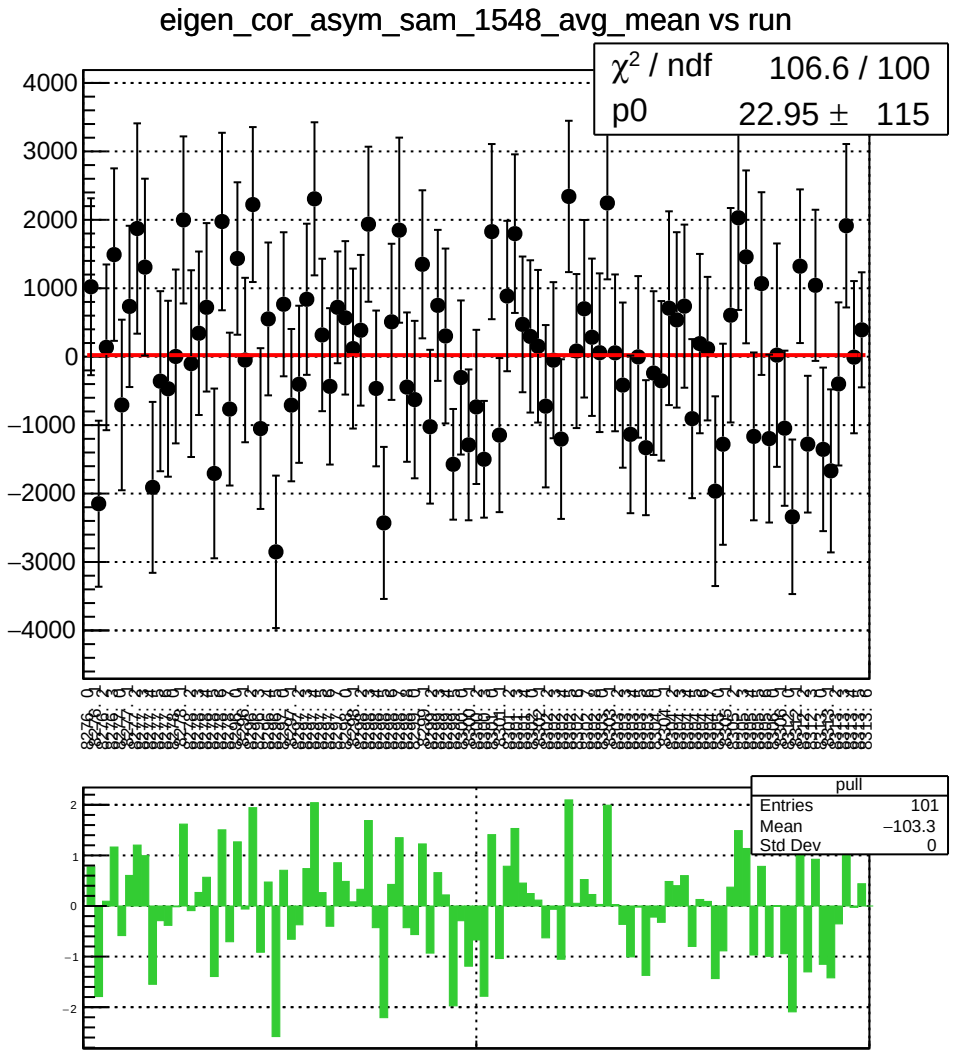

pull1D
Entries 101
Mean 0.01911
Std Dev 1.027
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

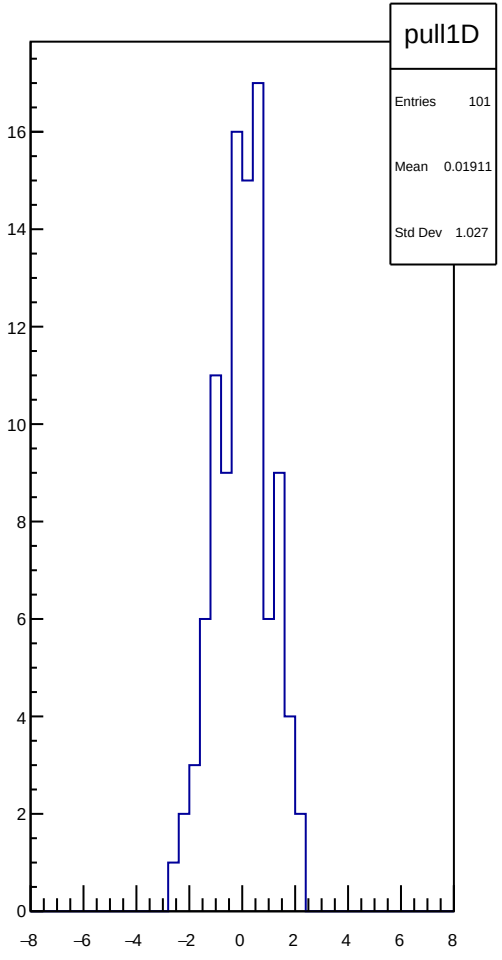

cor_asym_sam_1548_avg_rms vs run
χ² / ndf 1.275e+04 / 100
p0 112.5 ± 0.08132
170
160
150
140
130
120
110
100

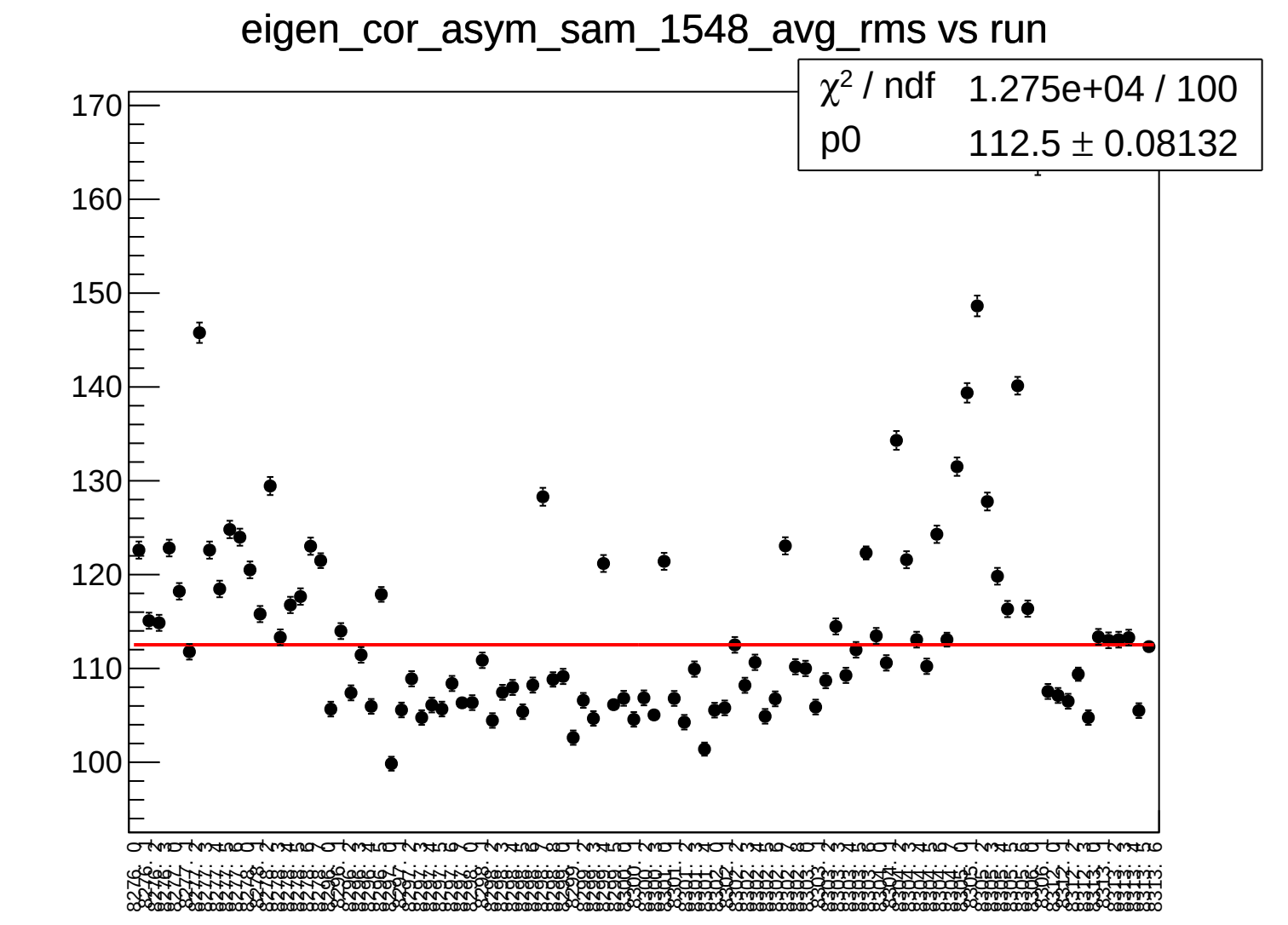

asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 94.47 / 100
p0 −1525 ± 1311
60000
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 3587
Std Dev 0
3
2
1
0
−1
−2

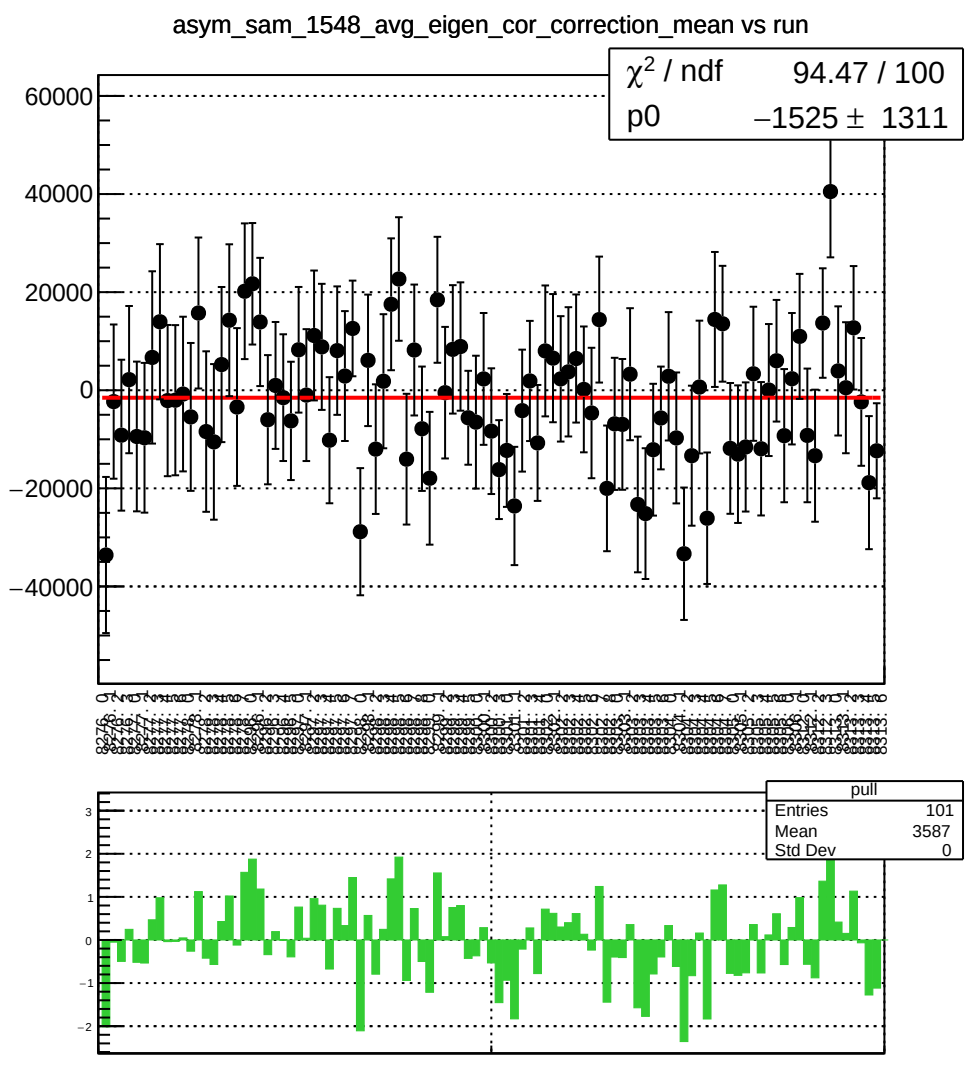

pull1D
Entries 101
Mean −0.0007387
Std Dev 0.9671
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

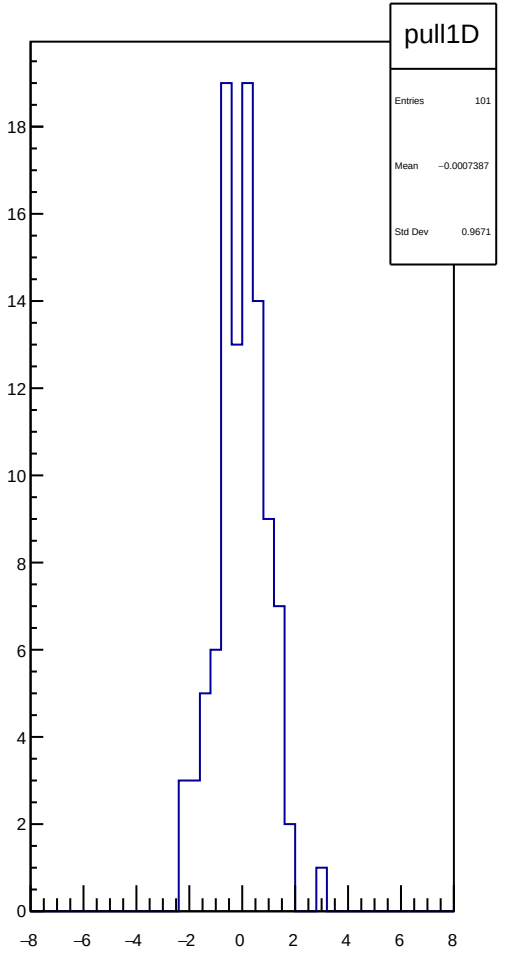

asym_sam_1548_avg_cor_correction_rms vs run
χ² / ndf 9883 / 100
p0 1284 ± 0.9274
1700
1600
1500
1400
1300
1200
1100

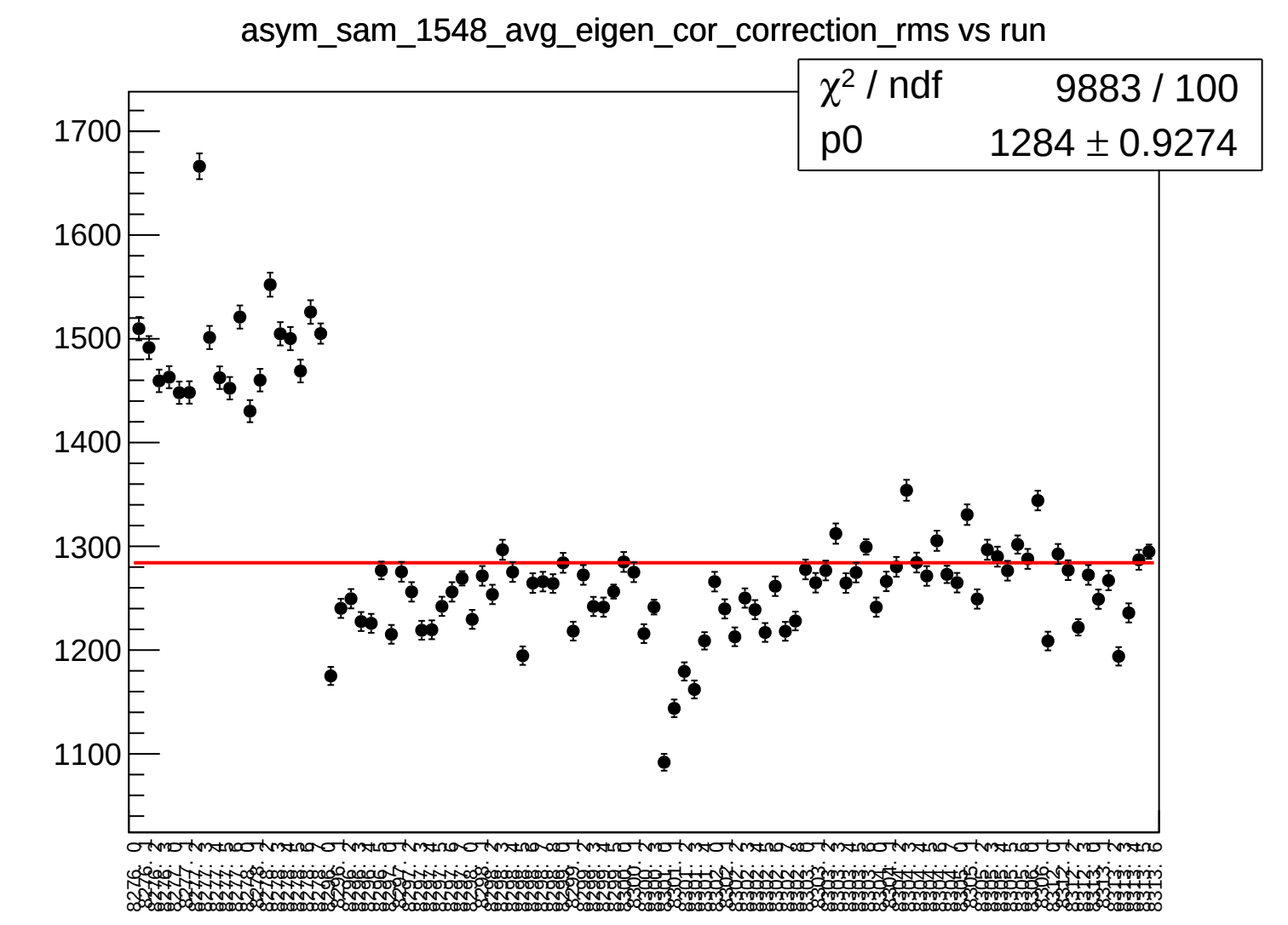

eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 106.6 / 100
p0 22.95 ± 115
pull
Entries 101
Mean −103.3
Std Dev 0

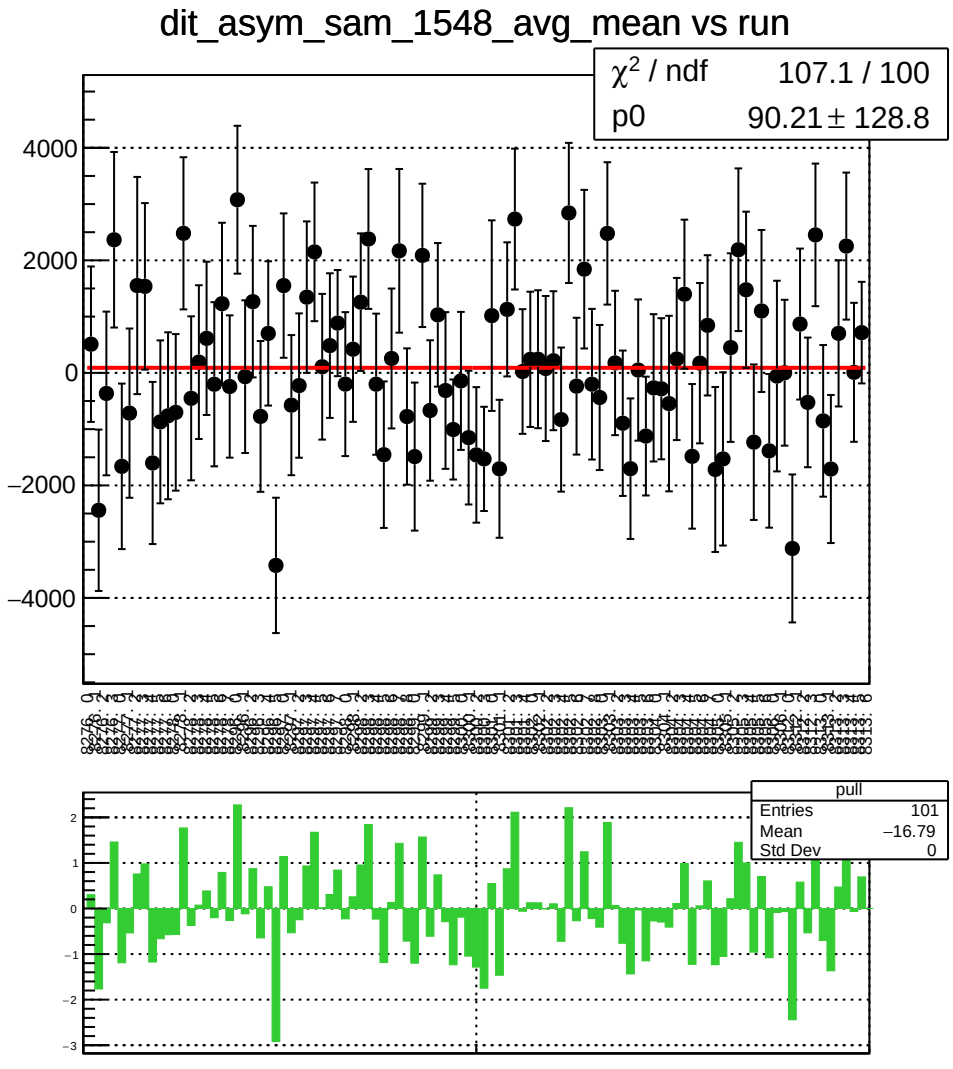

pull1D
Entries 101
Mean 0.01911
Std Dev 1.027

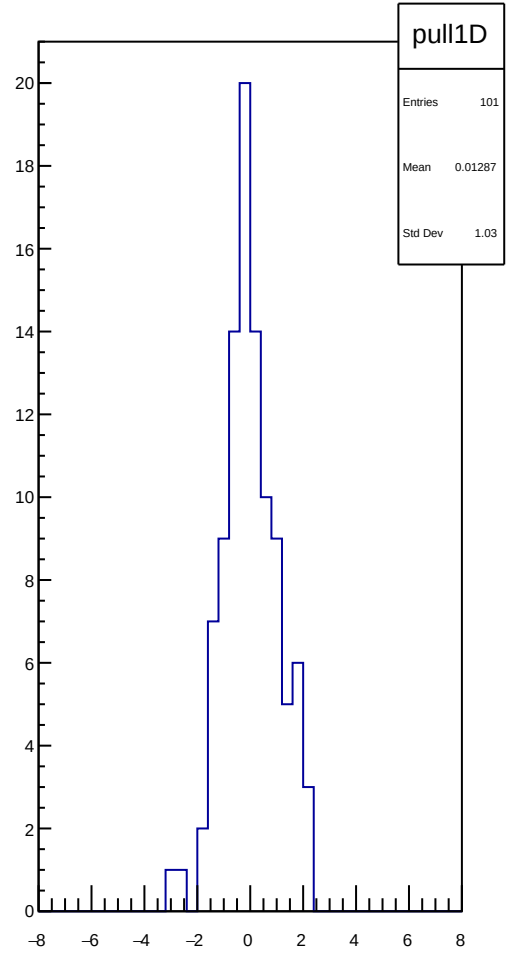

eigen_cor_asym_sam_1548_avg_rms vs run
χ² / ndf 1.275e+04 / 100
p0 112.5 ± 0.08132
170
160
150
140
130
120
110
100

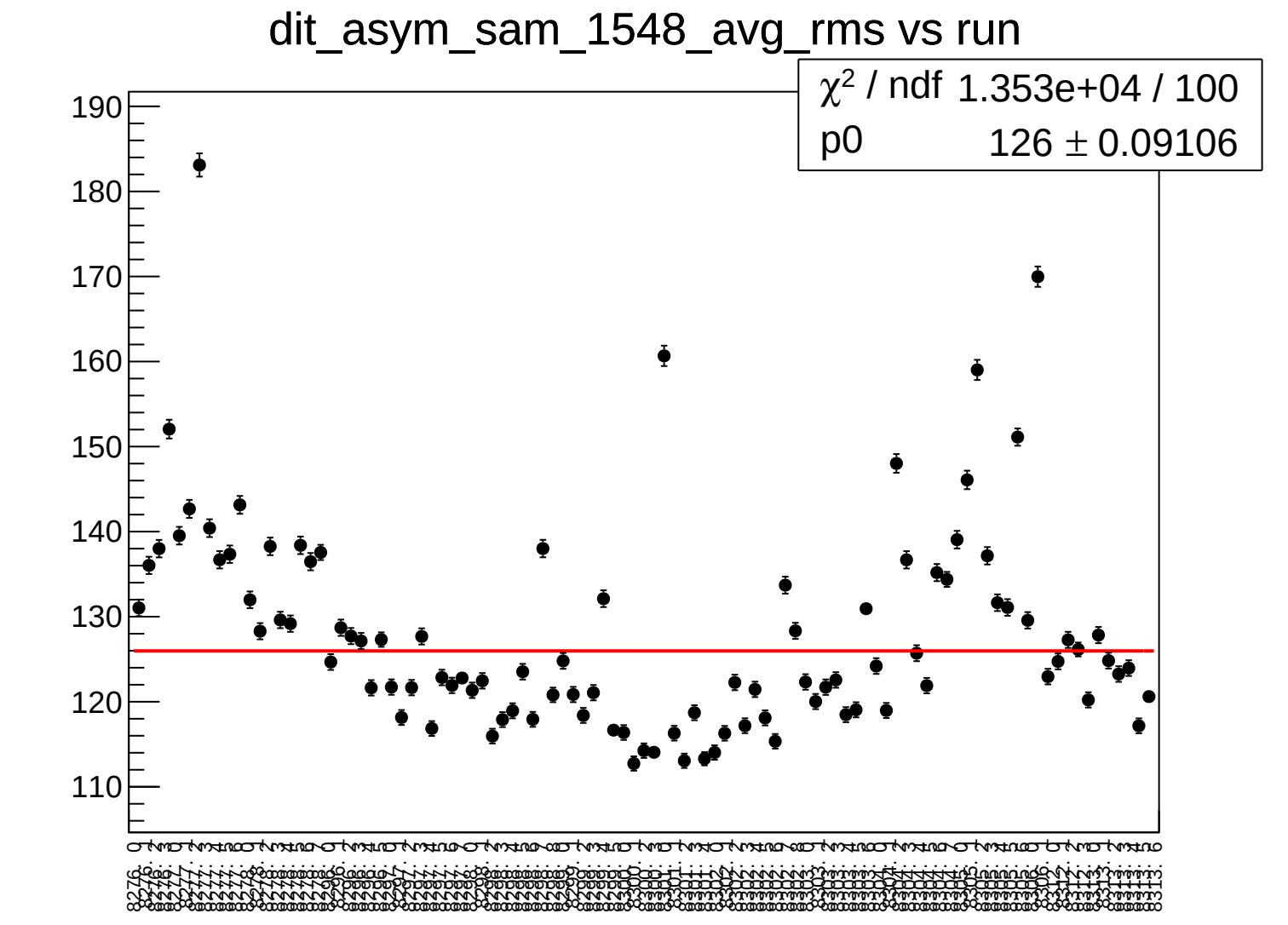

asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 94.47 / 100
p0 −1525 ± 1311
60000
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 3587
Std Dev 0
3
2
1
0
−1
−2

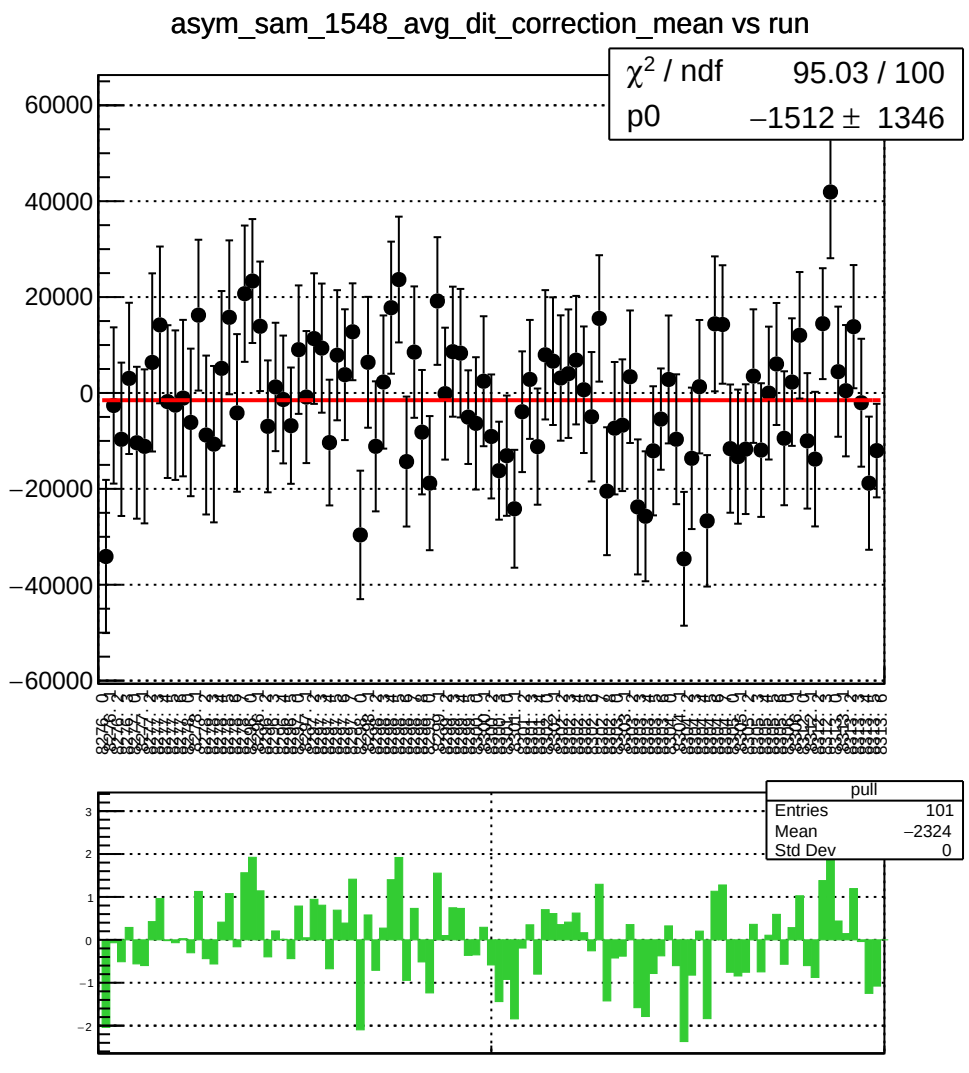

pull1D
Entries 101
Mean −0.0007387
Std Dev 0.9671
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

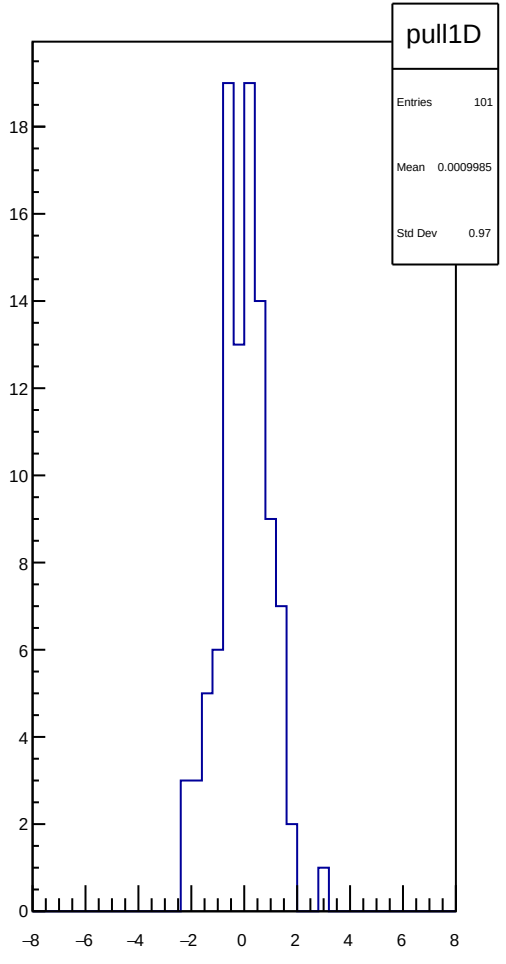

asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 9883 / 100
p0 1284 ± 0.9274
1700
1600
1500
1400
1300
1200
1100

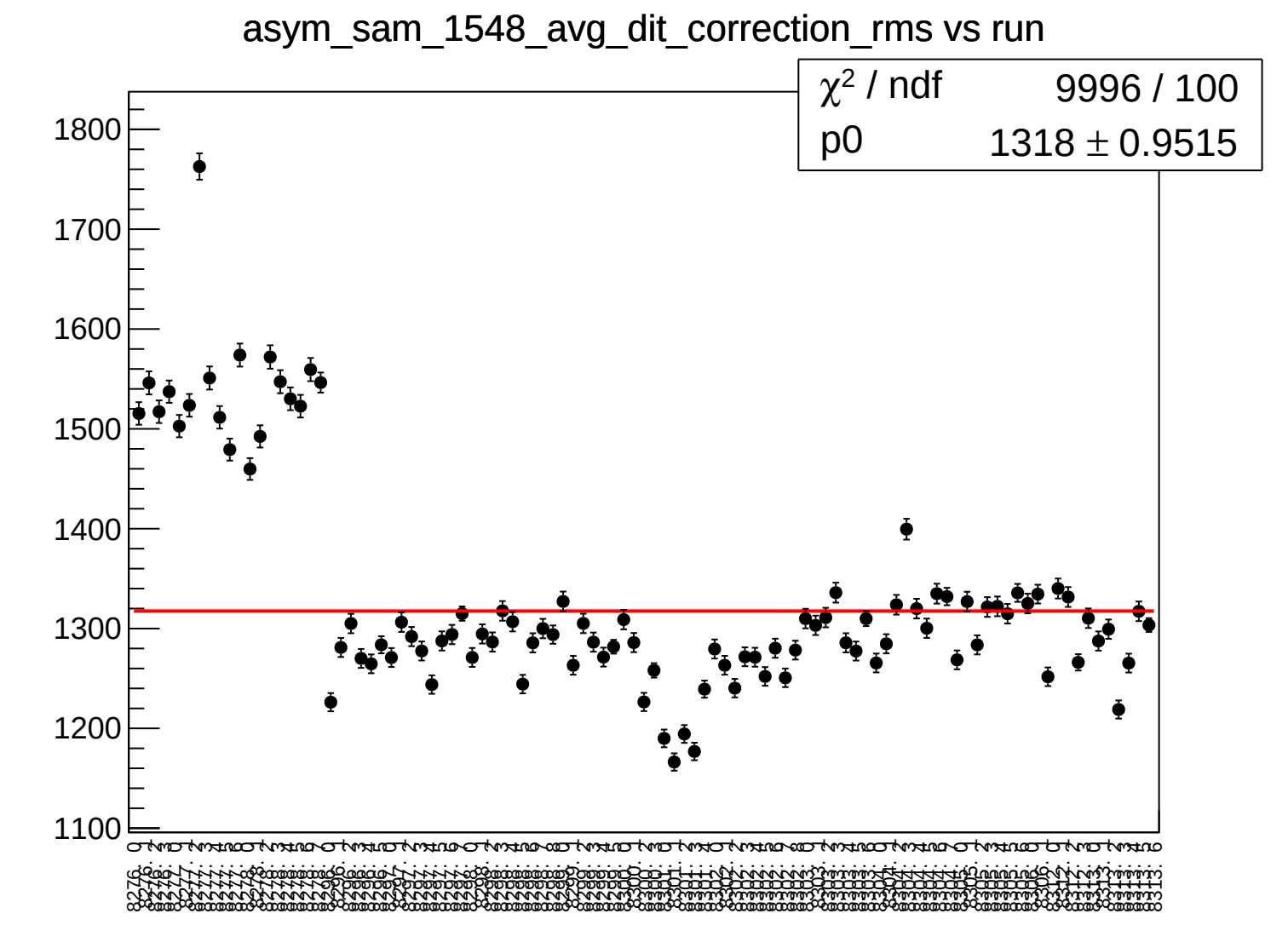

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 107.1 / 100
p0 90.21 ± 128.8
4000
2000
0
−2000
−4000
pull
Entries 101
Mean −16.79
Std Dev 0
2
1
0
−1
−2
−3

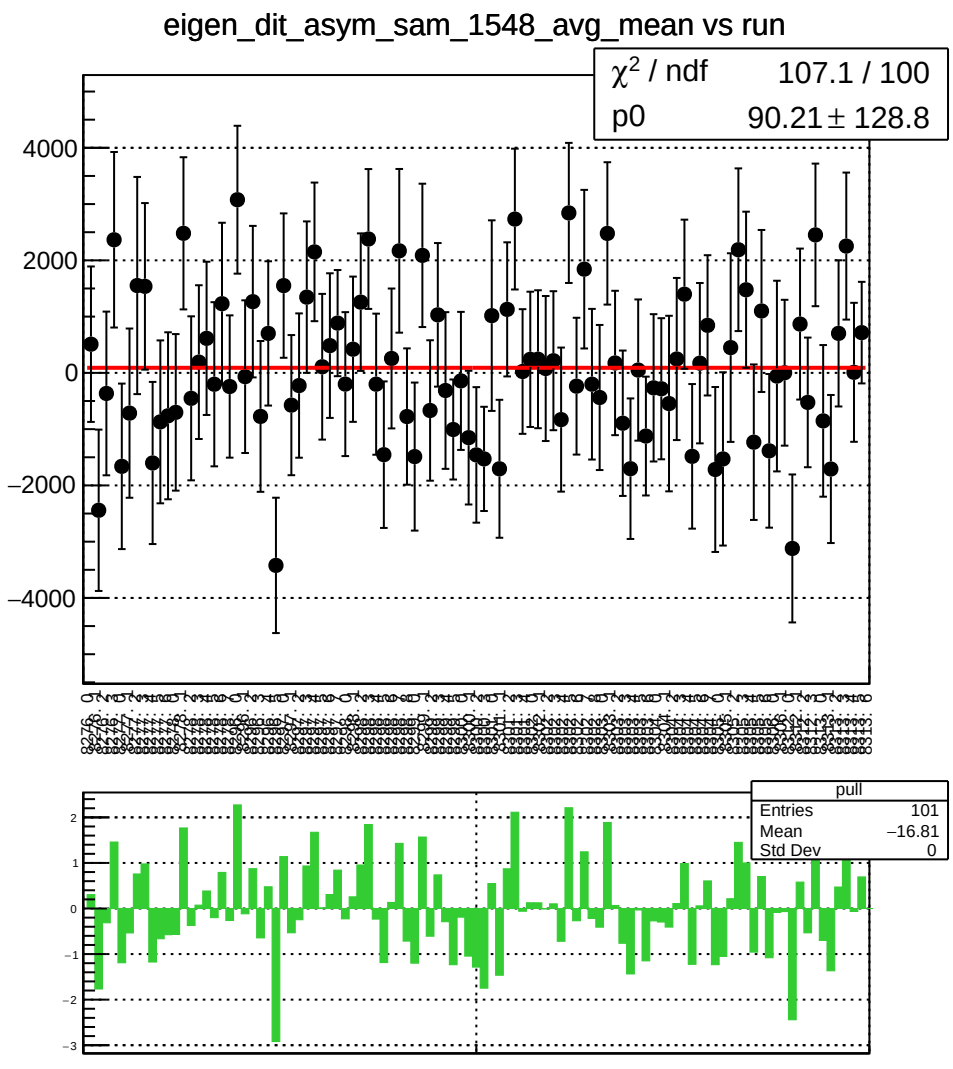

pull1D
Entries 101
Mean 0.01287
Std Dev 1.03
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

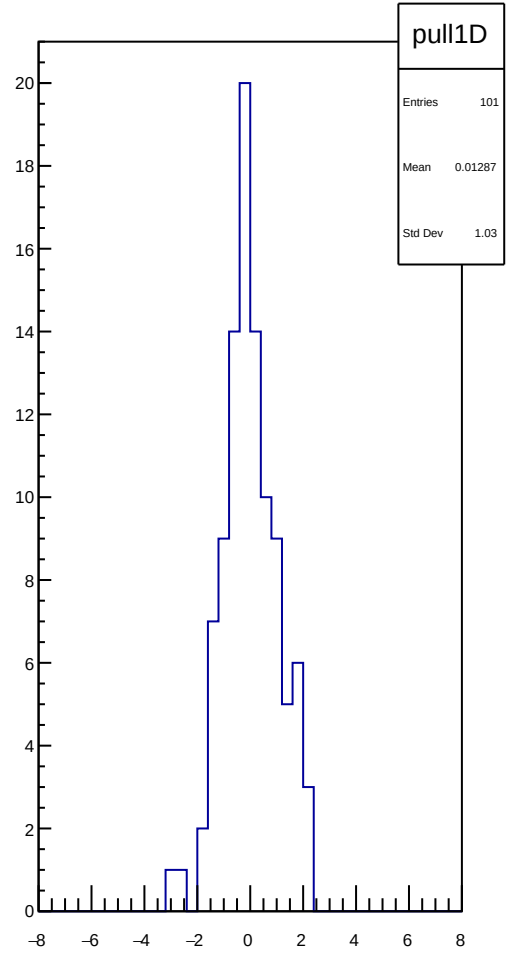

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 1.353e+04 / 100
p0 126 ± 0.09106
190
180
170
160
150
140
130
120
110

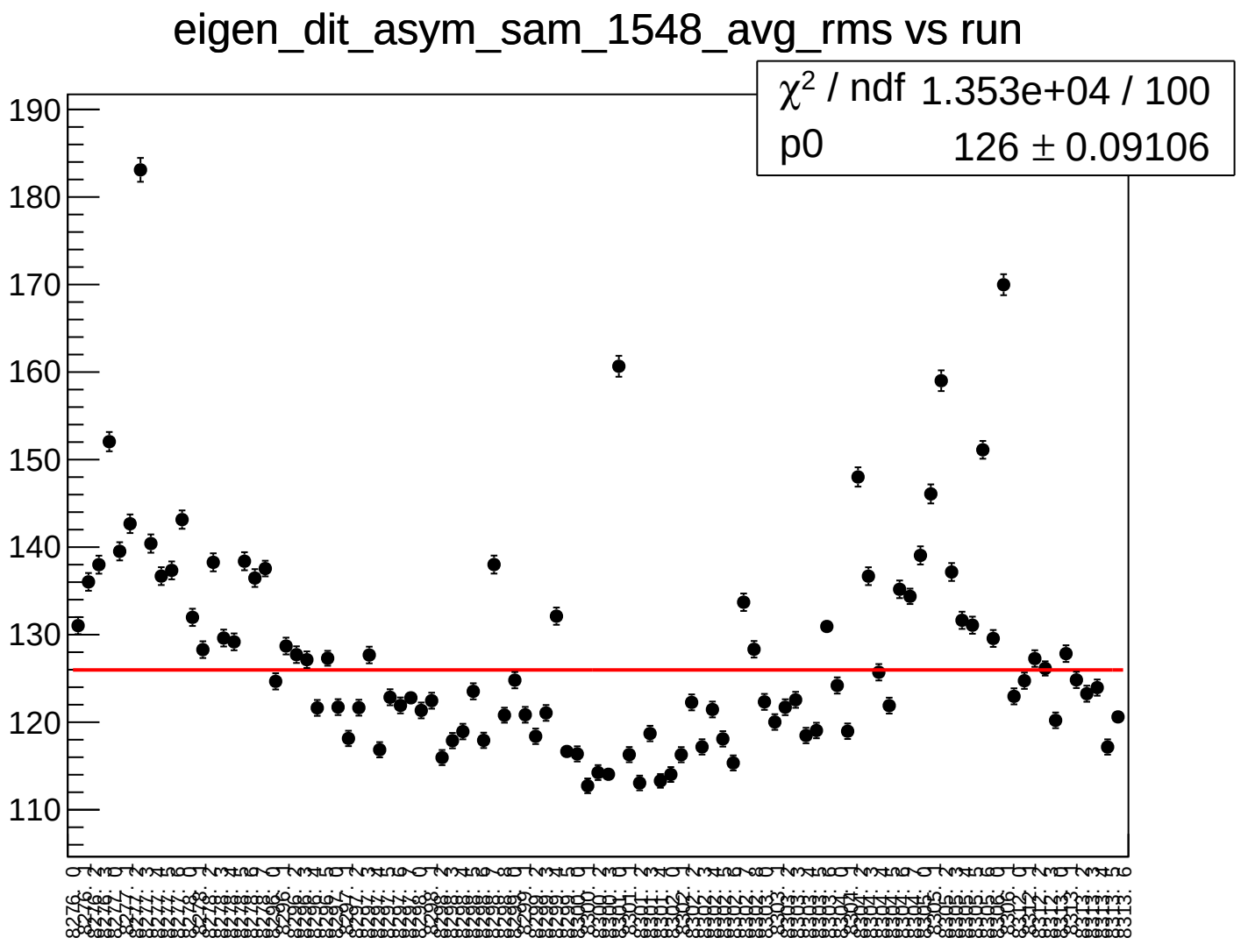

asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 95.03 / 100
p0 −1512 ± 1346
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −2324
Std Dev 0
3
2
1
0
−1
−2

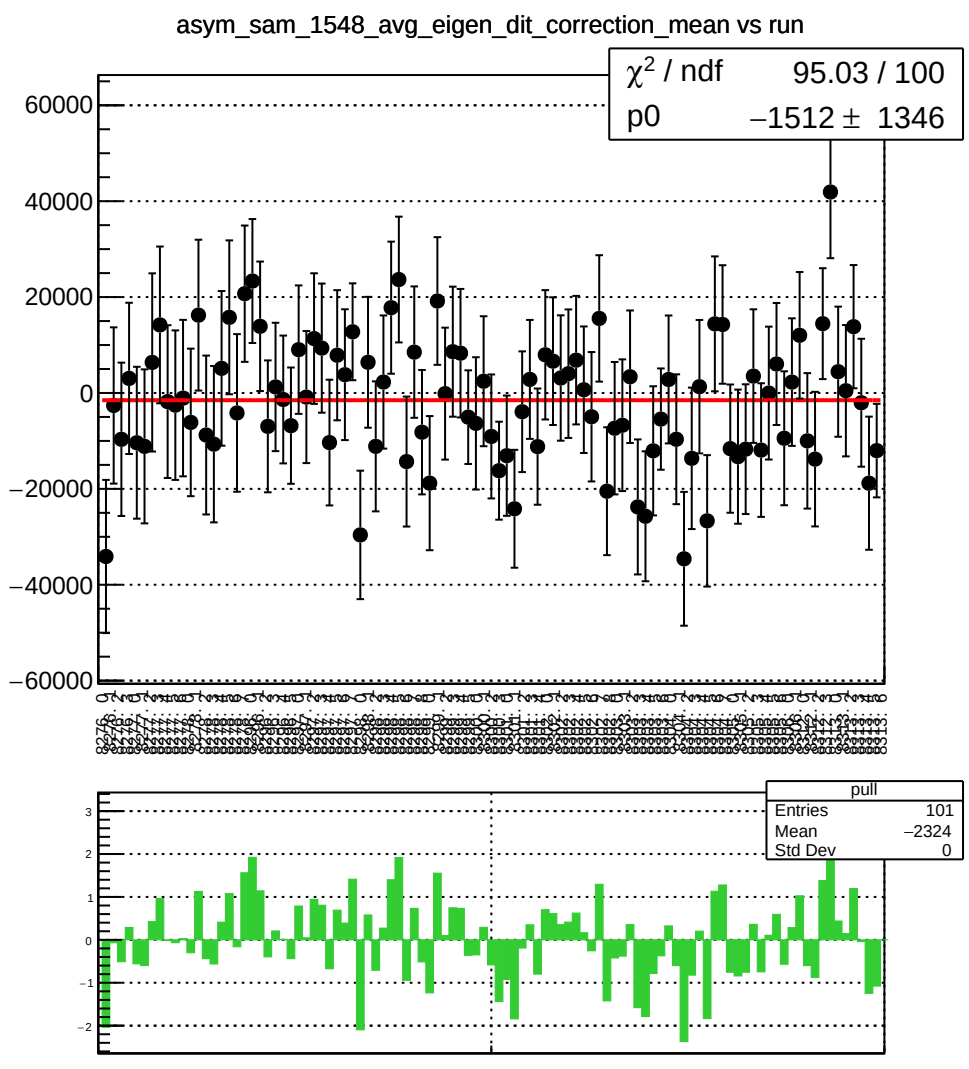

pull1D
Entries 101
Mean 0.0009985
Std Dev 0.97
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

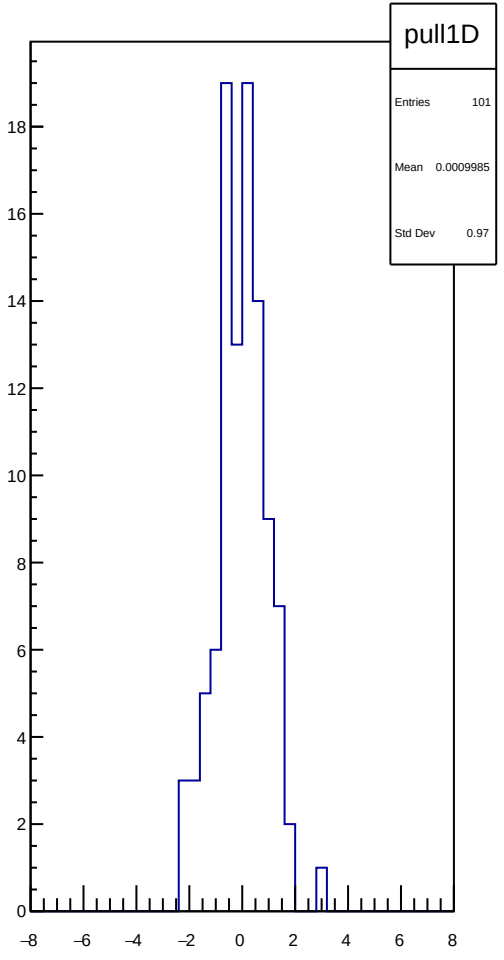

asym_sam_1548_avg_dit_correction_rms vs run
χ² / ndf 9996 / 100
p0 1318 ± 0.9515
1800
1700
1600
1500
1400
1300
1200
1100

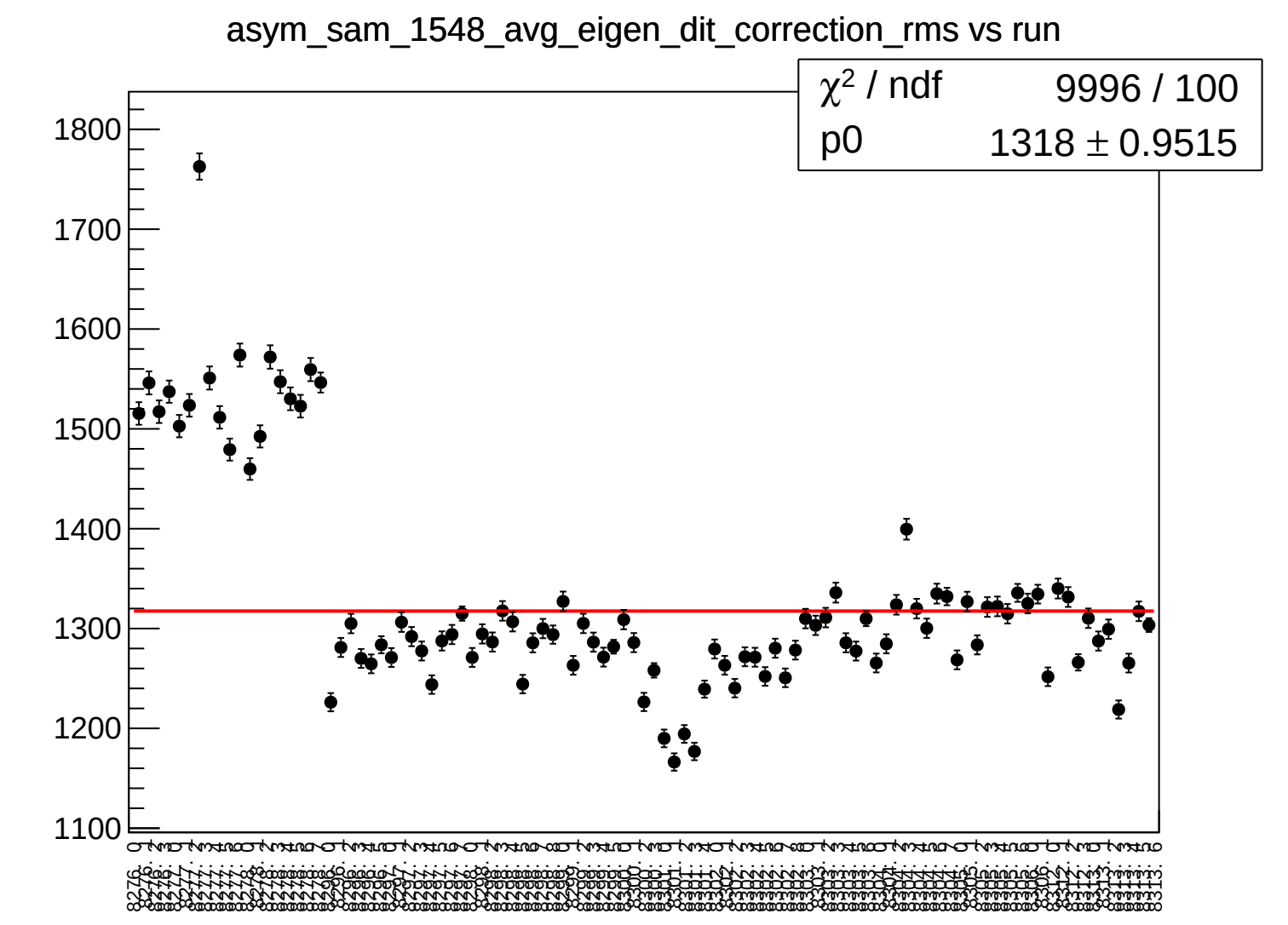

eigen_dit_asym_sam_1548_avg_mean vs run
χ² / ndf 107.1 / 100
p0 90.21 ± 128.8
4000
2000
0
−2000
−4000
pull
Entries 101
Mean −16.81
Std Dev 0
2
1
0
−1
−2
−3

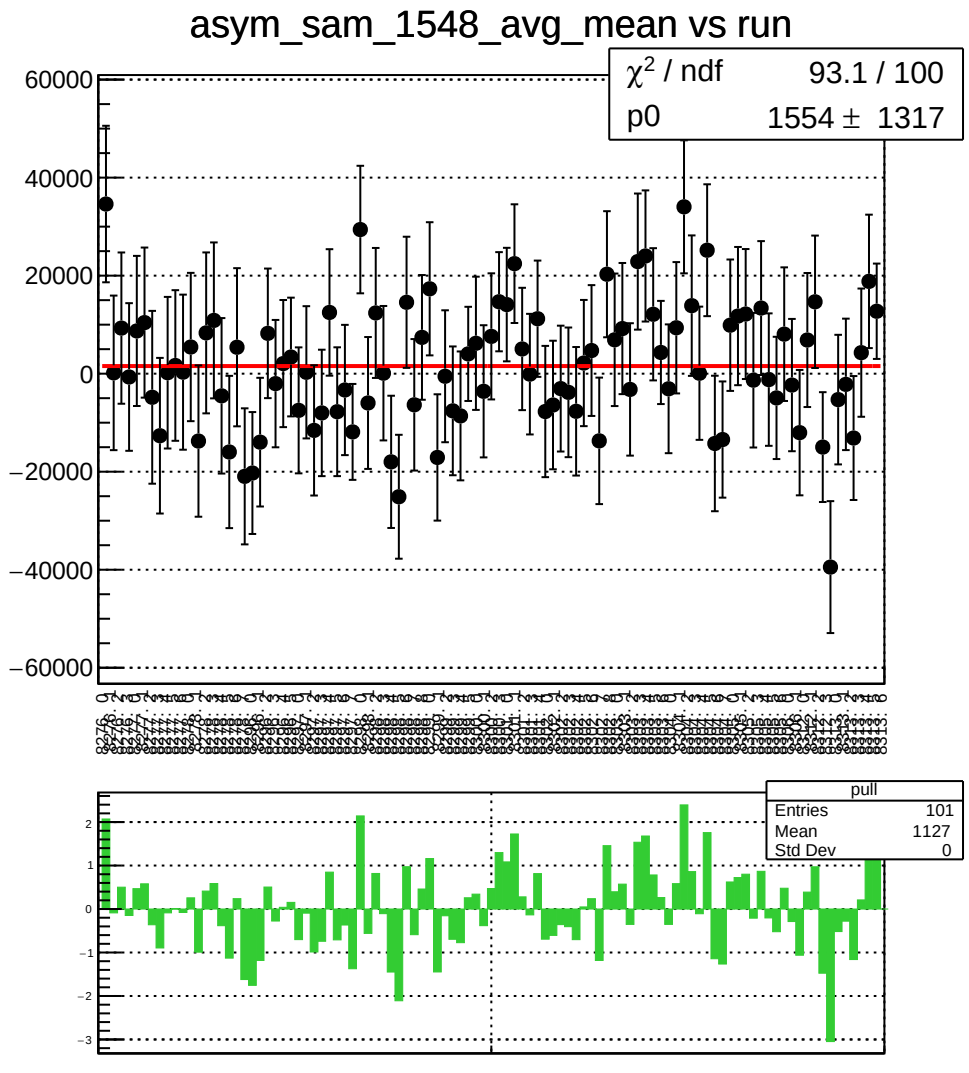

pull1D
Entries 101
Mean 0.01287
Std Dev 1.03
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

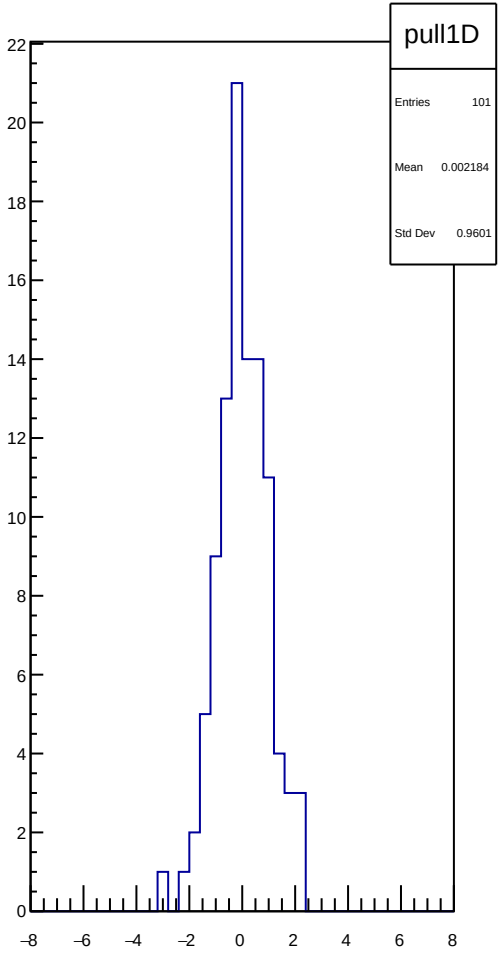

eigen_dit_asym_sam_1548_avg_rms vs run
χ² / ndf 1.353e+04 / 100
p0 126 ± 0.09106
190
180
170
160
150
140
130
120
110

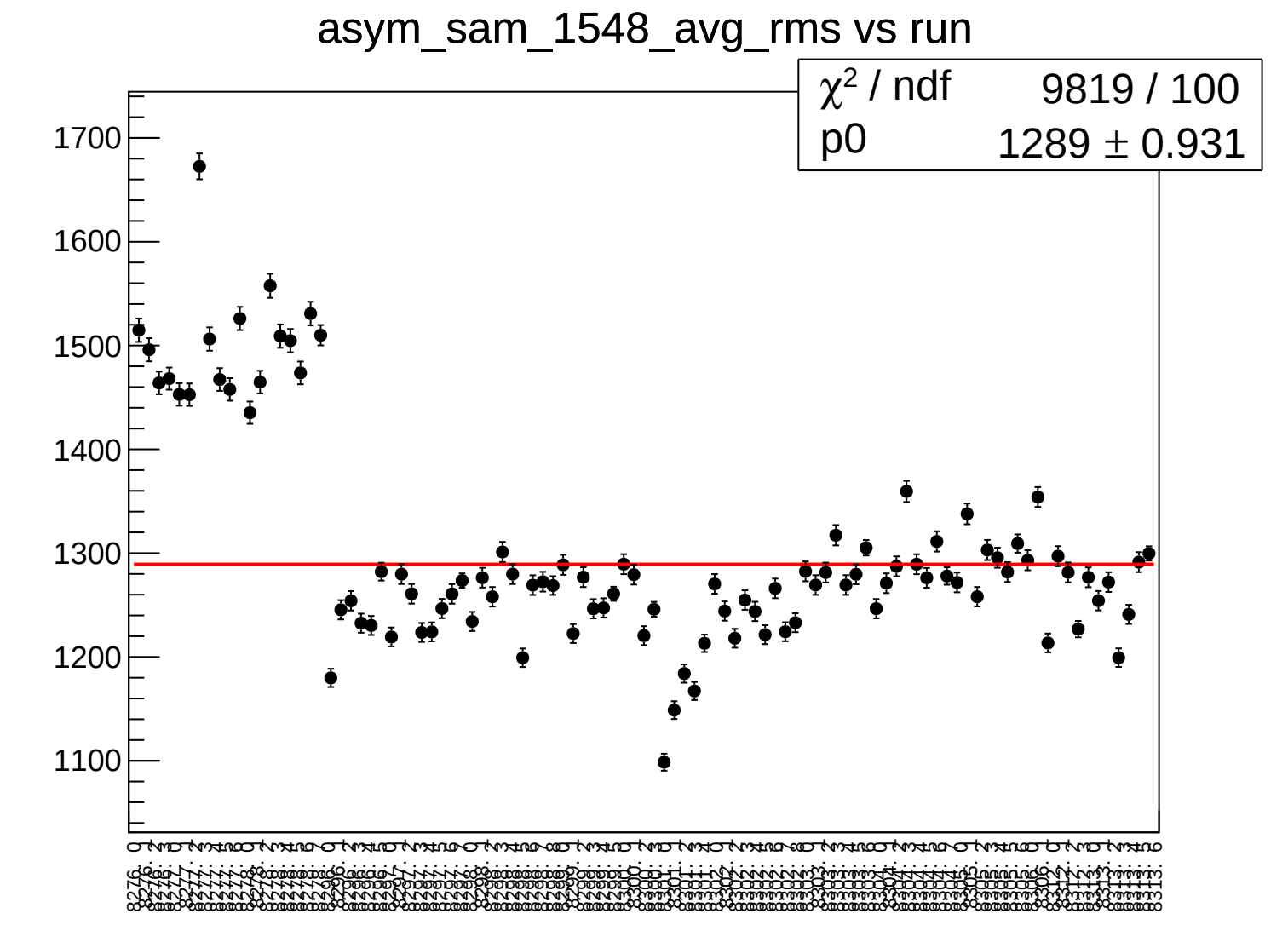

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 95.03 / 100
p0 −1512 ± 1346
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −2324
Std Dev 0
3
2
1
0
−1
−2

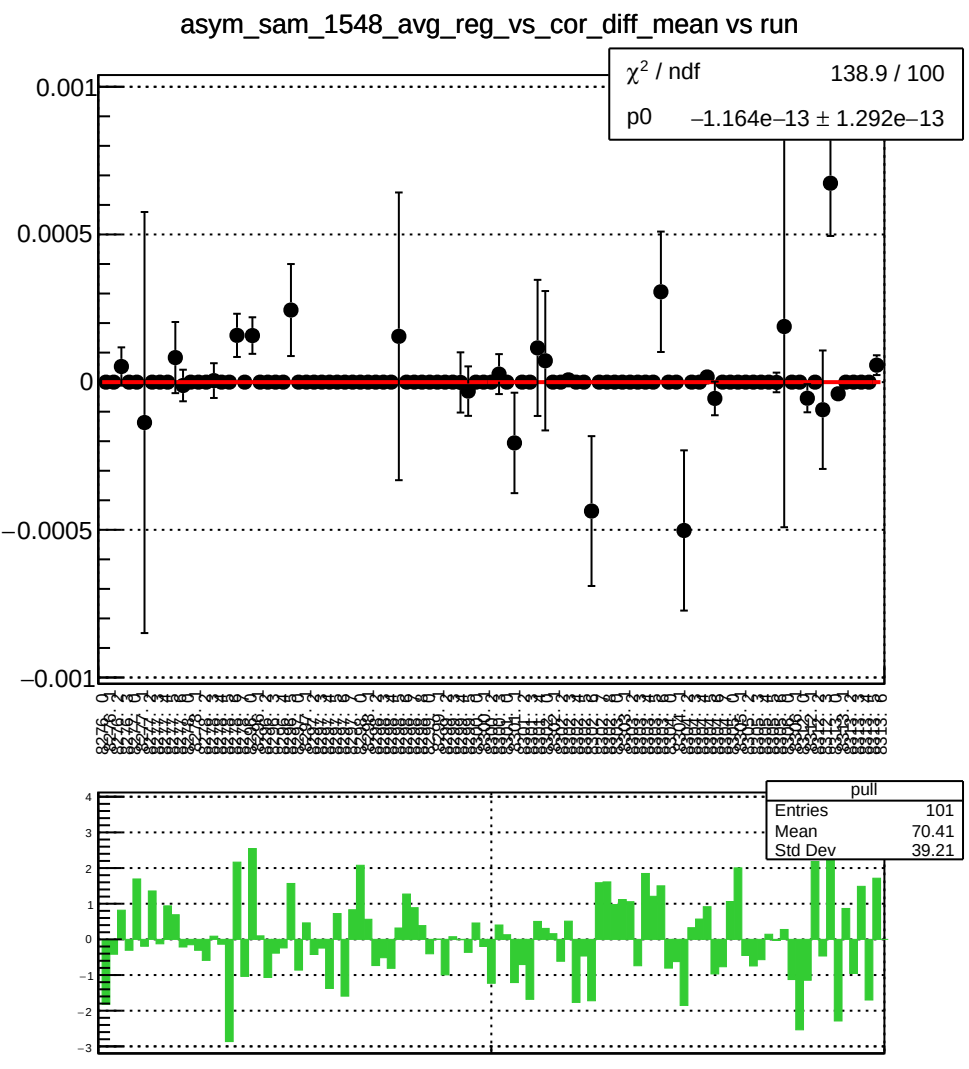

pull1D
Entries 101
Mean 0.0009985
Std Dev 0.97
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

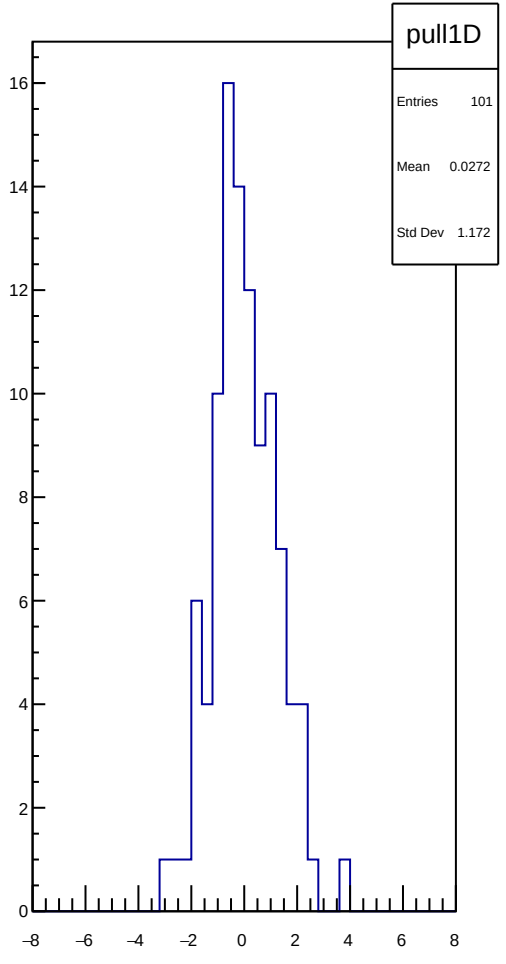

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 9996 / 100
p0 1318 ± 0.9515
1800
1700
1600
1500
1400
1300
1200
1100

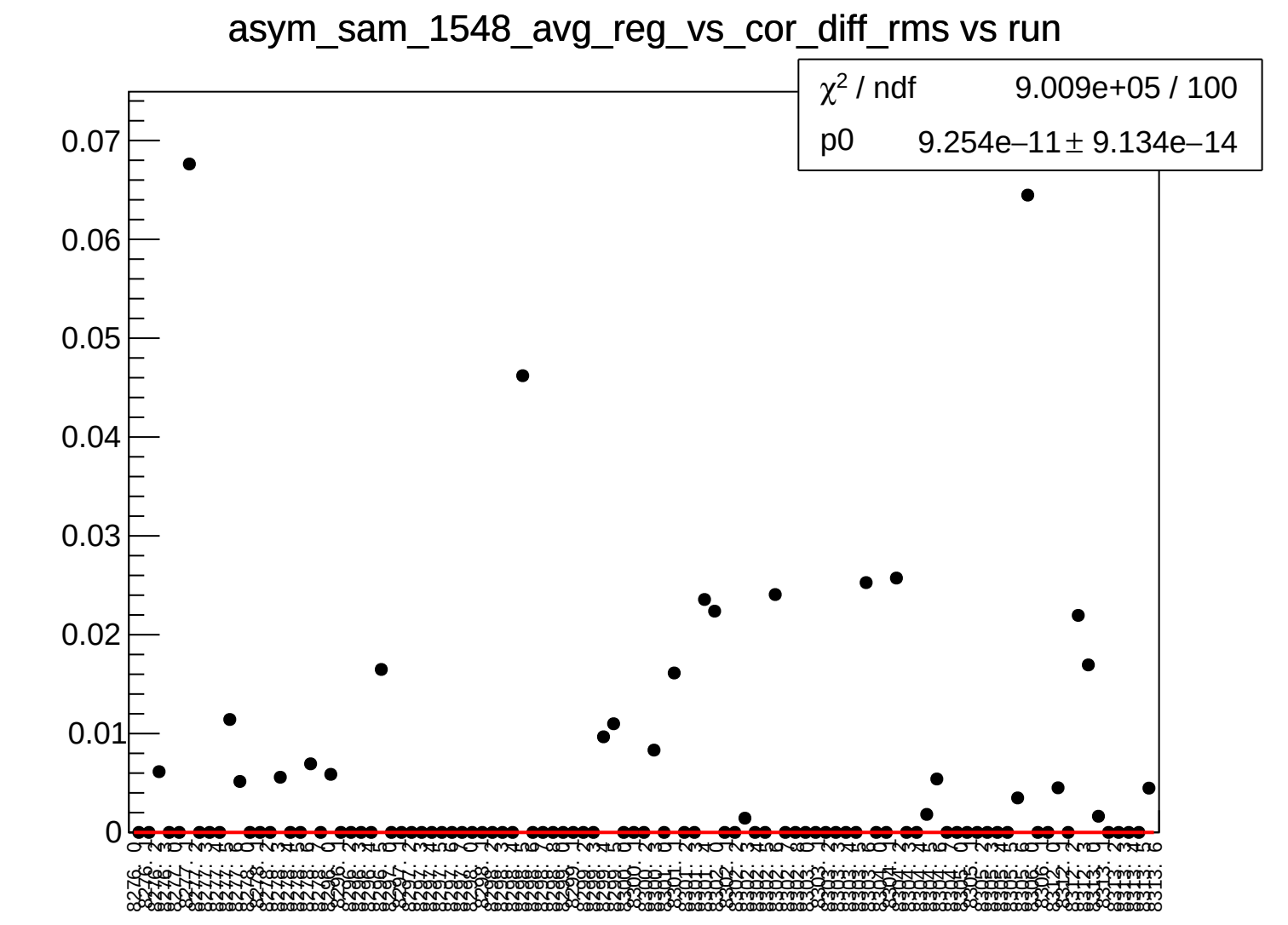

asym_sam_1548_avg_mean vs run
χ² / ndf 93.1 / 100
p0 1554 ± 1317
pull
Entries 101
Mean 1127
Std Dev 0

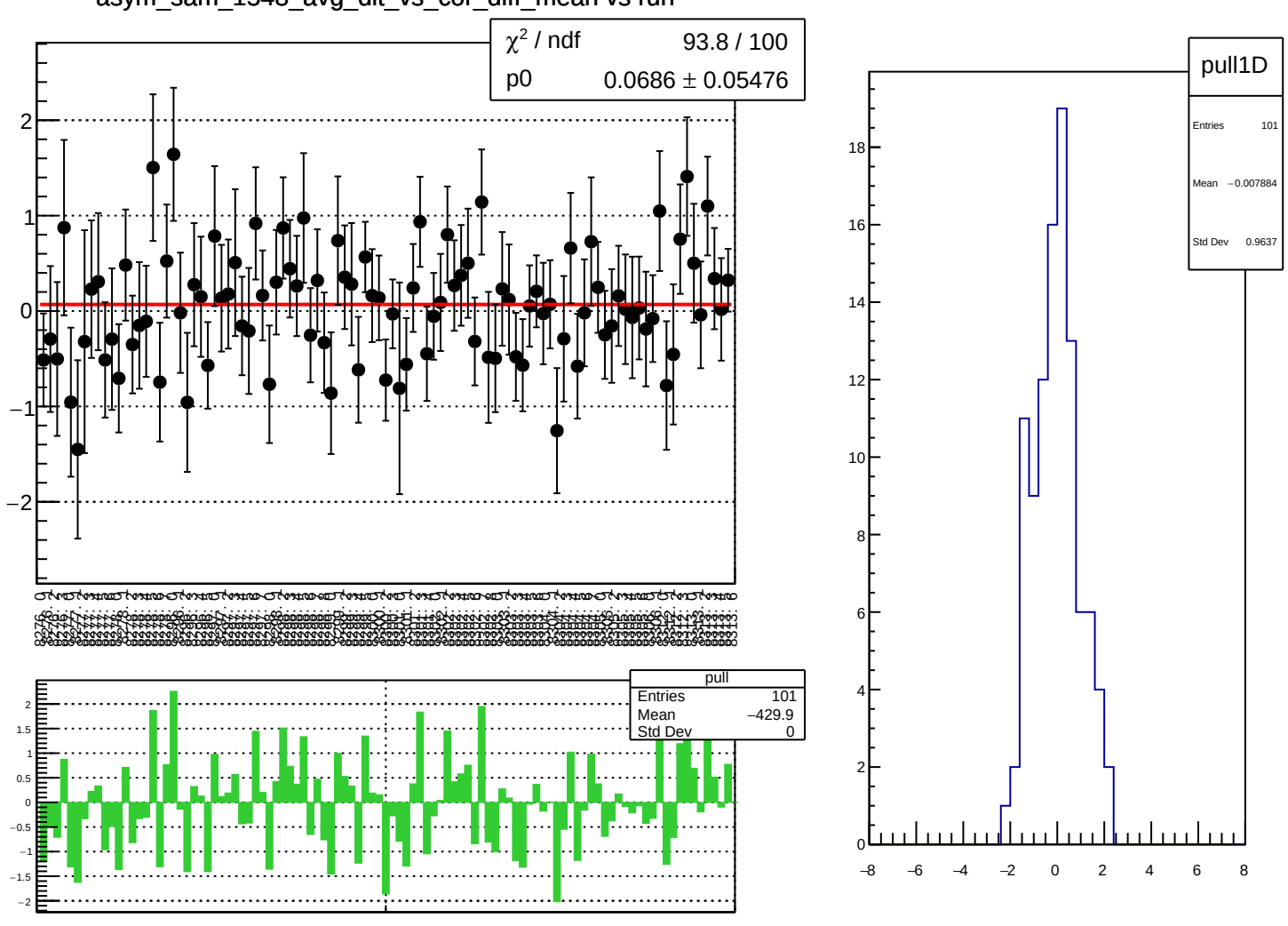

pull1D
Entries 101
Mean 0.002184
Std Dev 0.9601

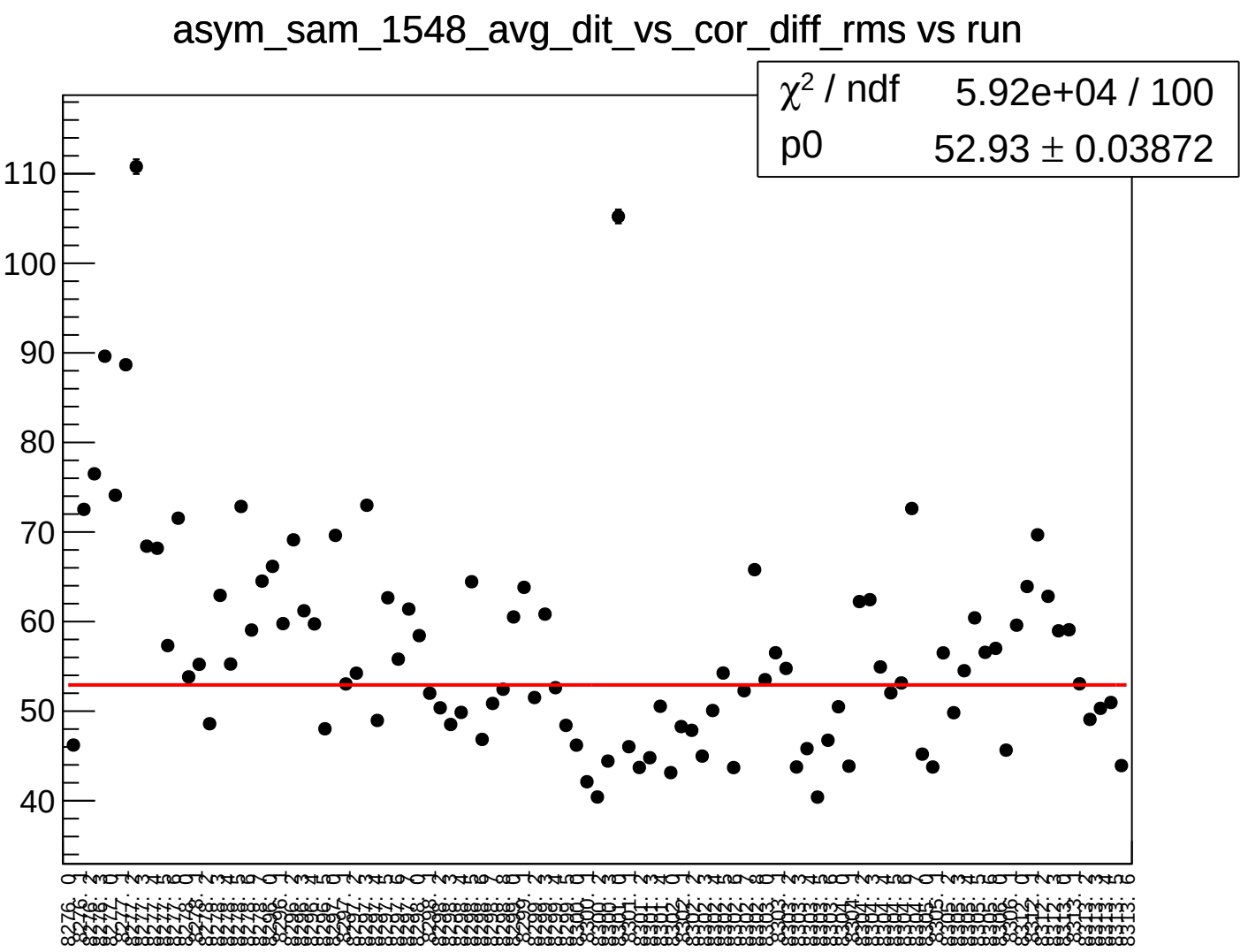

asym_sam_1548_avg_rms vs run
χ² / ndf 9819 / 100
p0 1289 ± 0.931
1700
1600
1500
1400
1300
1200
1100

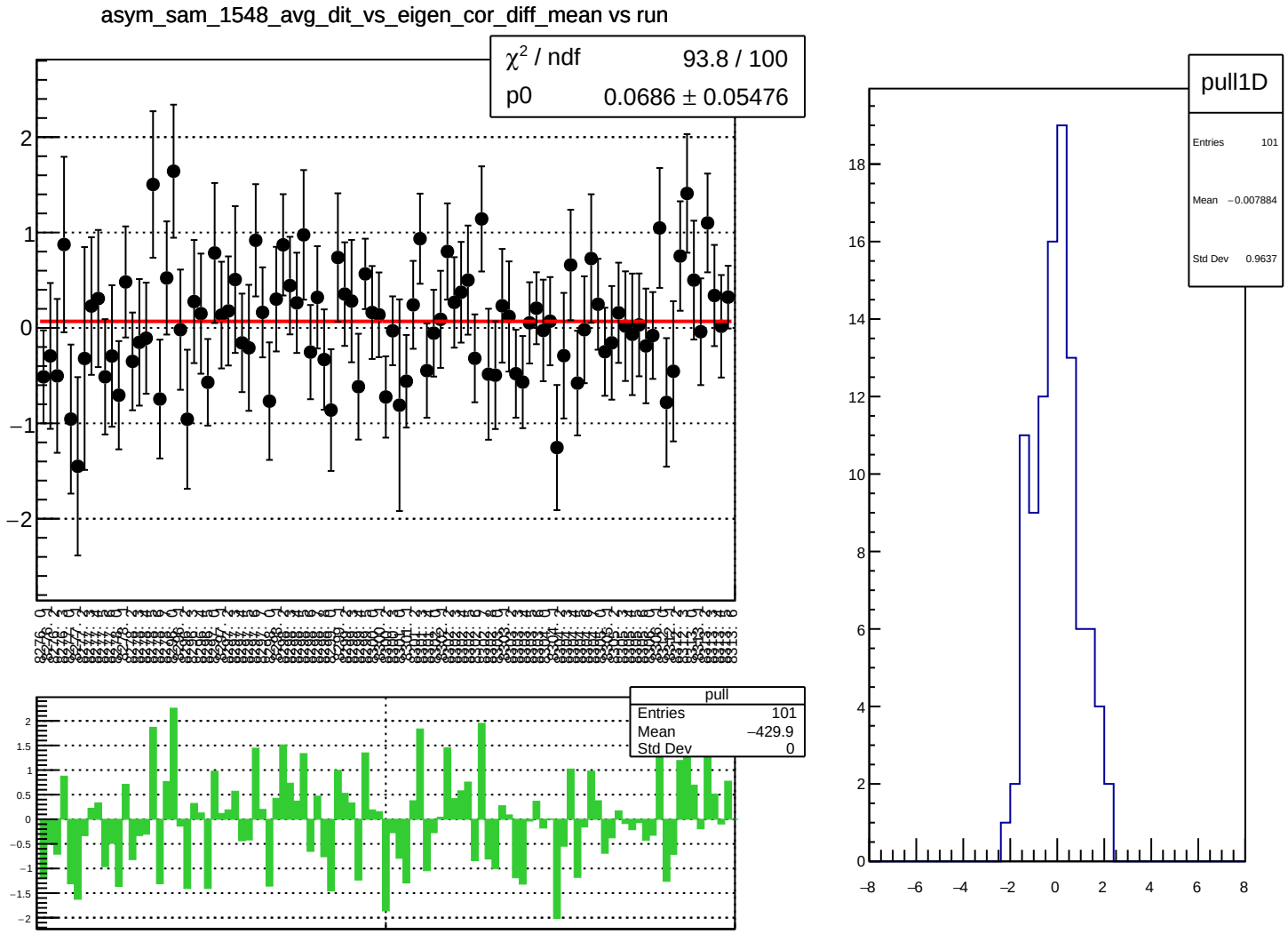

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 138.9 / 100
p0 −1.164e−13 ± 1.292e−13
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 101
Mean 70.41
Std Dev 39.21
4
3
2
1
0
−1
−2
−3

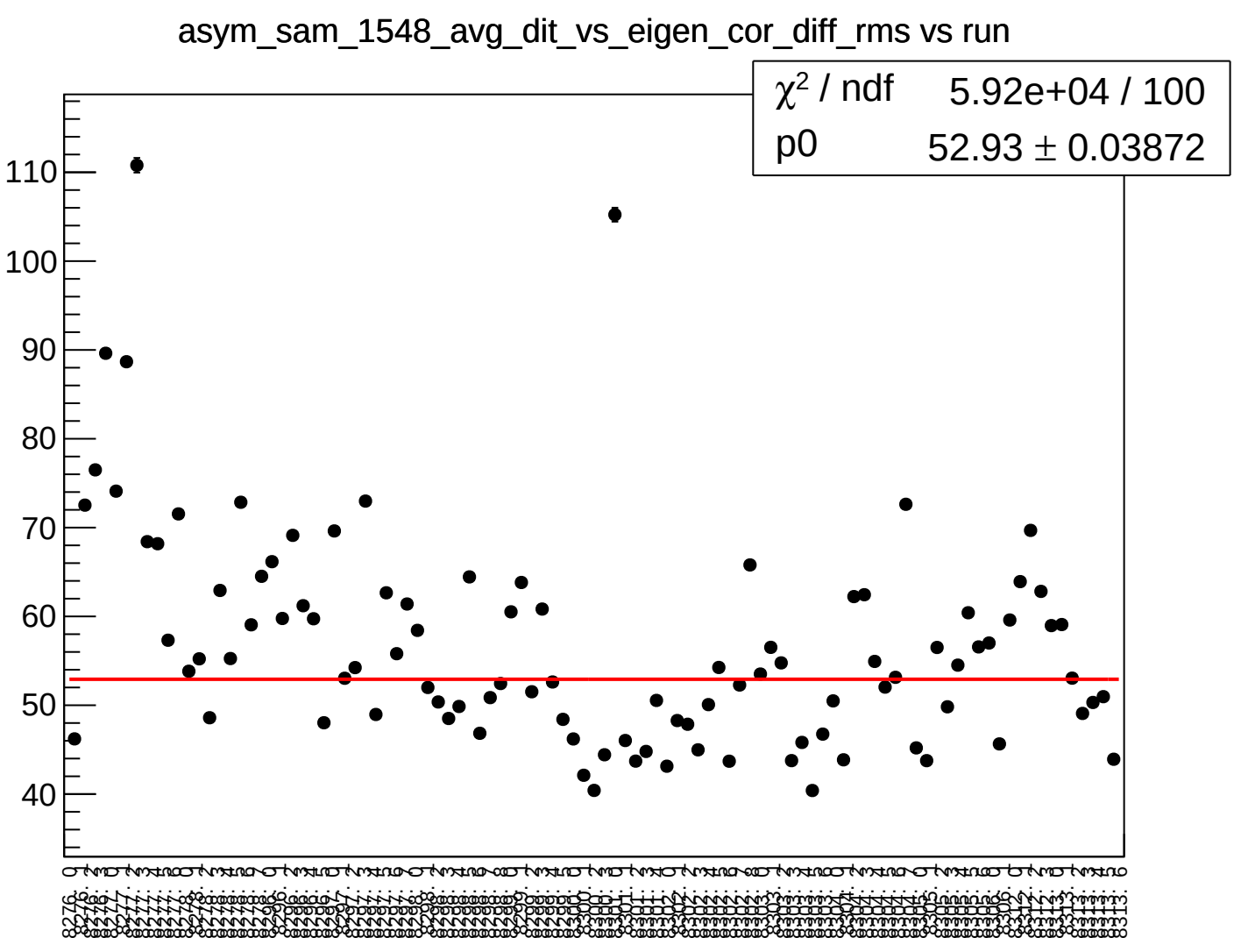

pull1D
Entries 101
Mean 0.0272
Std Dev 1.172
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

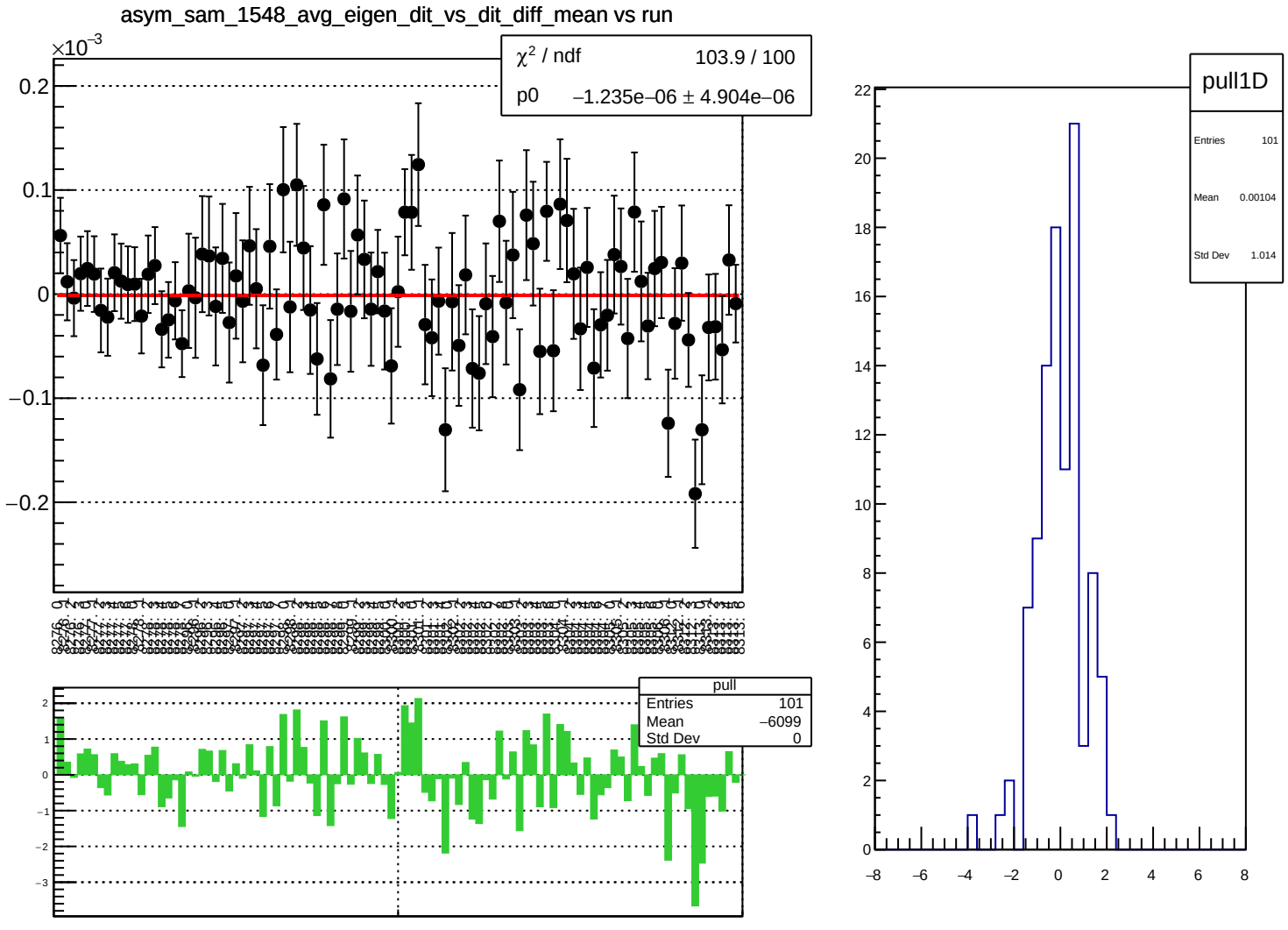

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.009e+05 / 100
p0 9.254e−11 ± 9.134e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

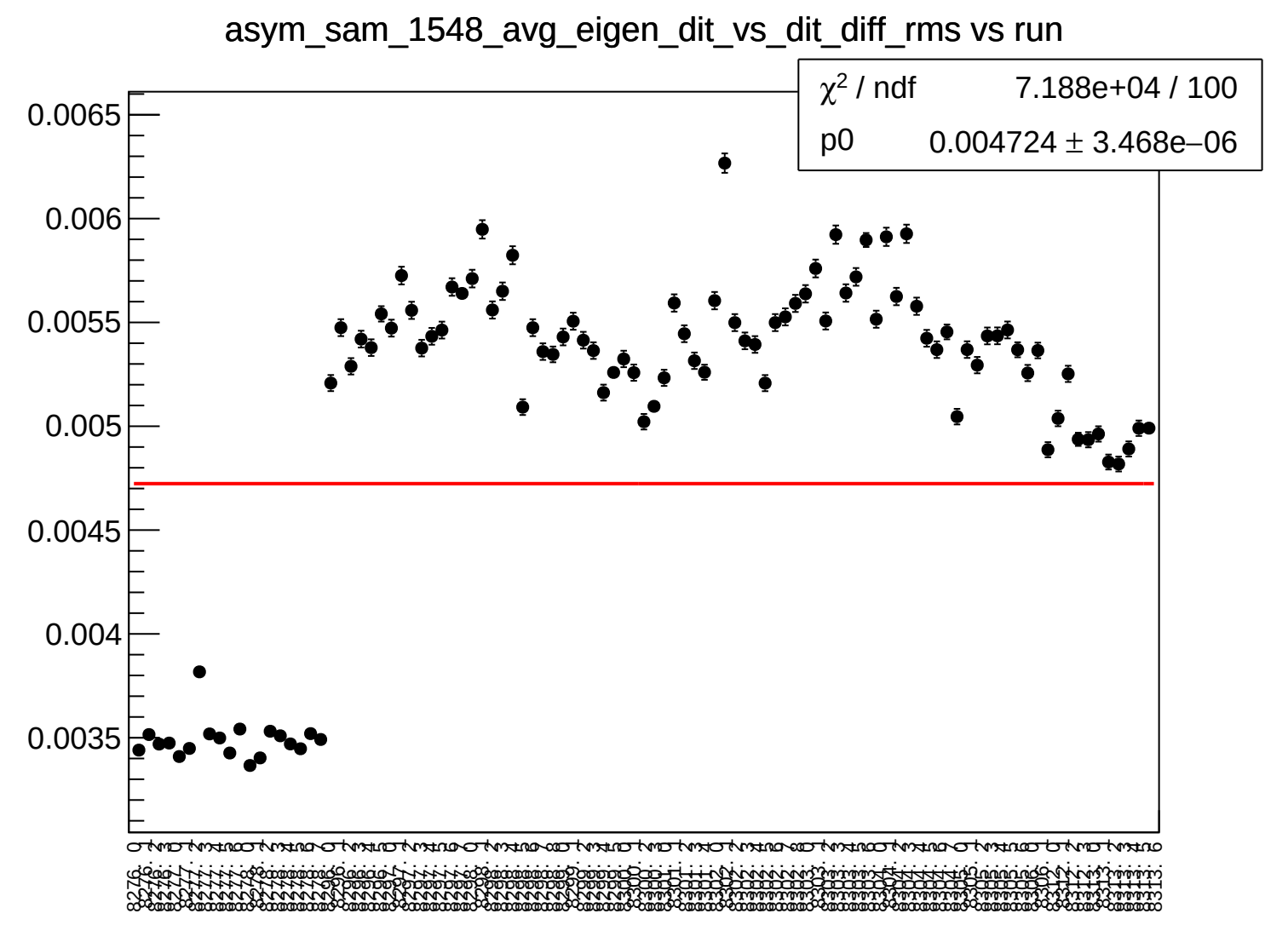

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 93.8 / 100
p0 0.0686 ± 0.05476
pull
Entries 101
Mean −429.9
Std Dev 0
pull1D
Entries 101
Mean −0.007884
Std Dev 0.9637

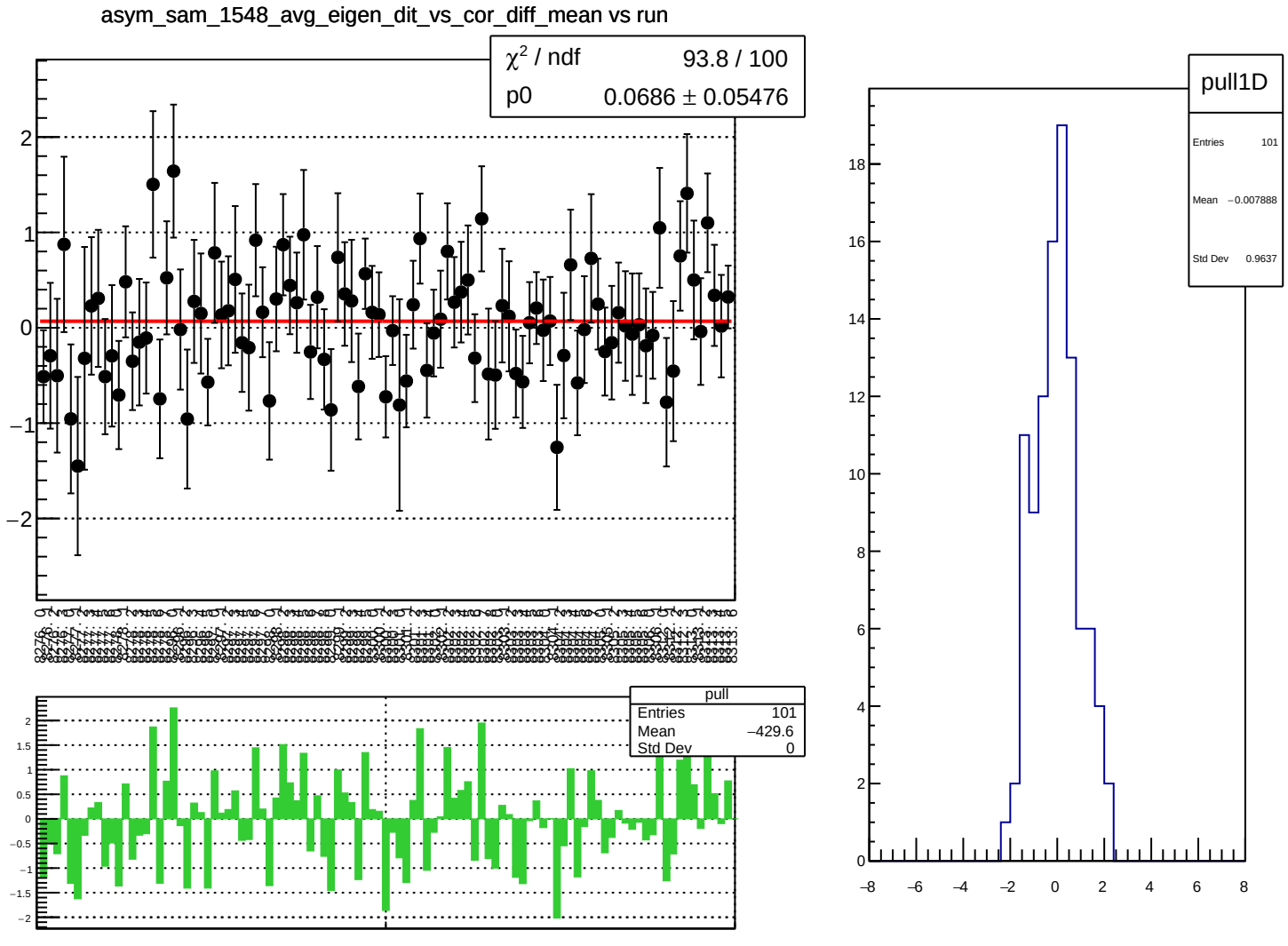

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.92e+04 / 100
p0 52.93 ± 0.03872
110
100
90
80
70
60
50
40

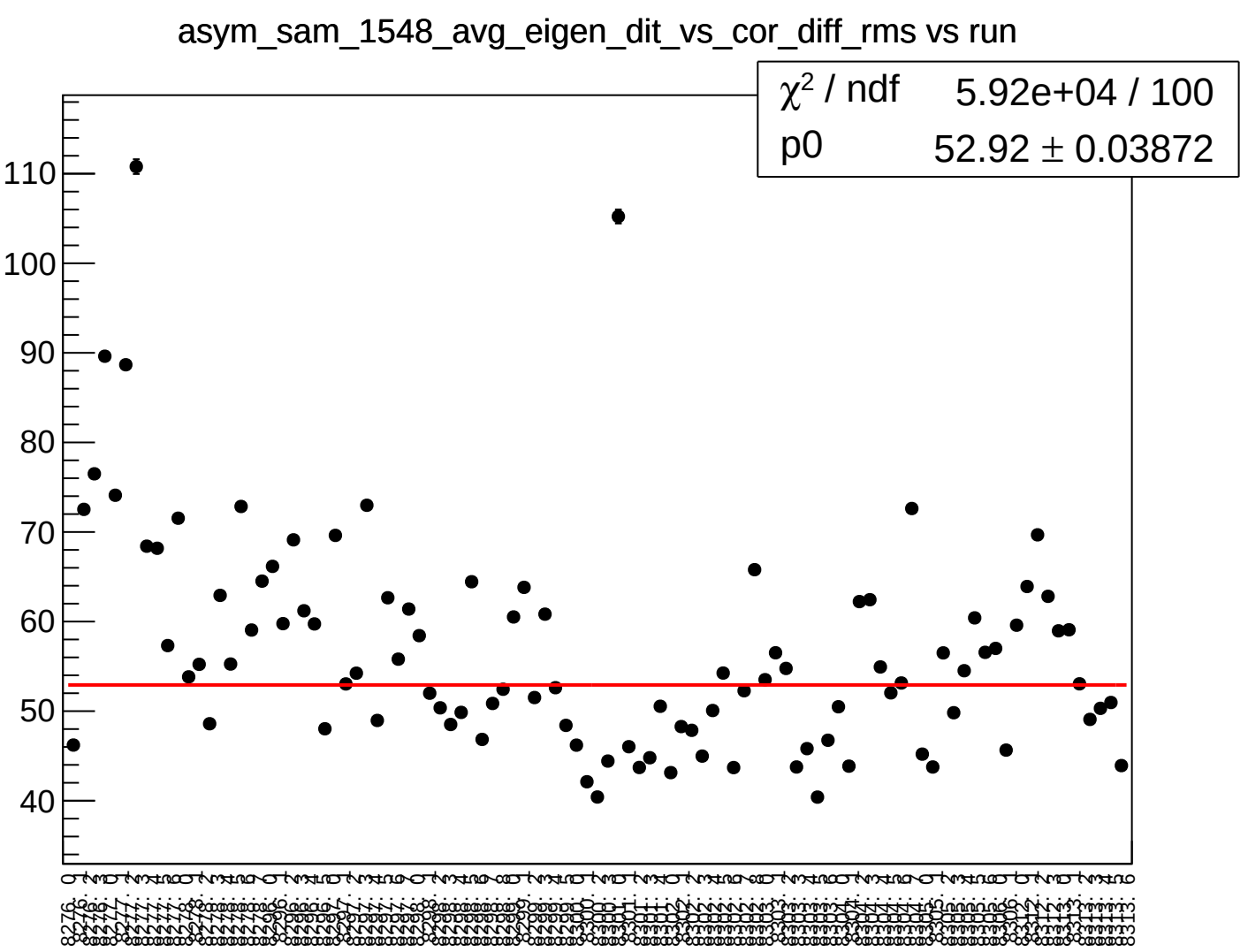

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.8 / 100
p0 0.0686 ± 0.05476
pull
Entries 101
Mean −429.9
Std Dev 0
pull1D
Entries 101
Mean −0.007884
Std Dev 0.9637

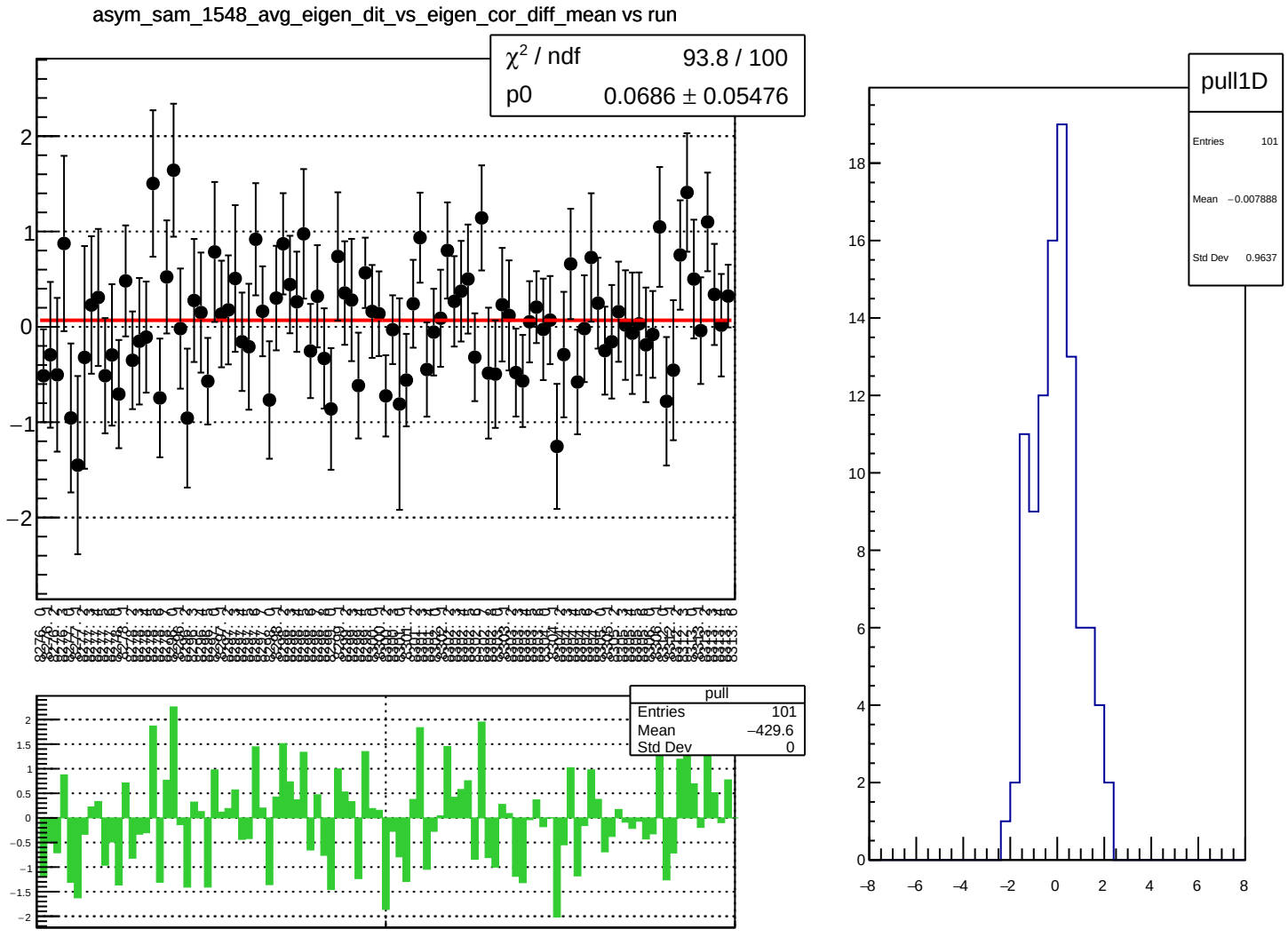

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.92e+04 / 100
p0 52.93 ± 0.03872
110
100
90
80
70
60
50
40

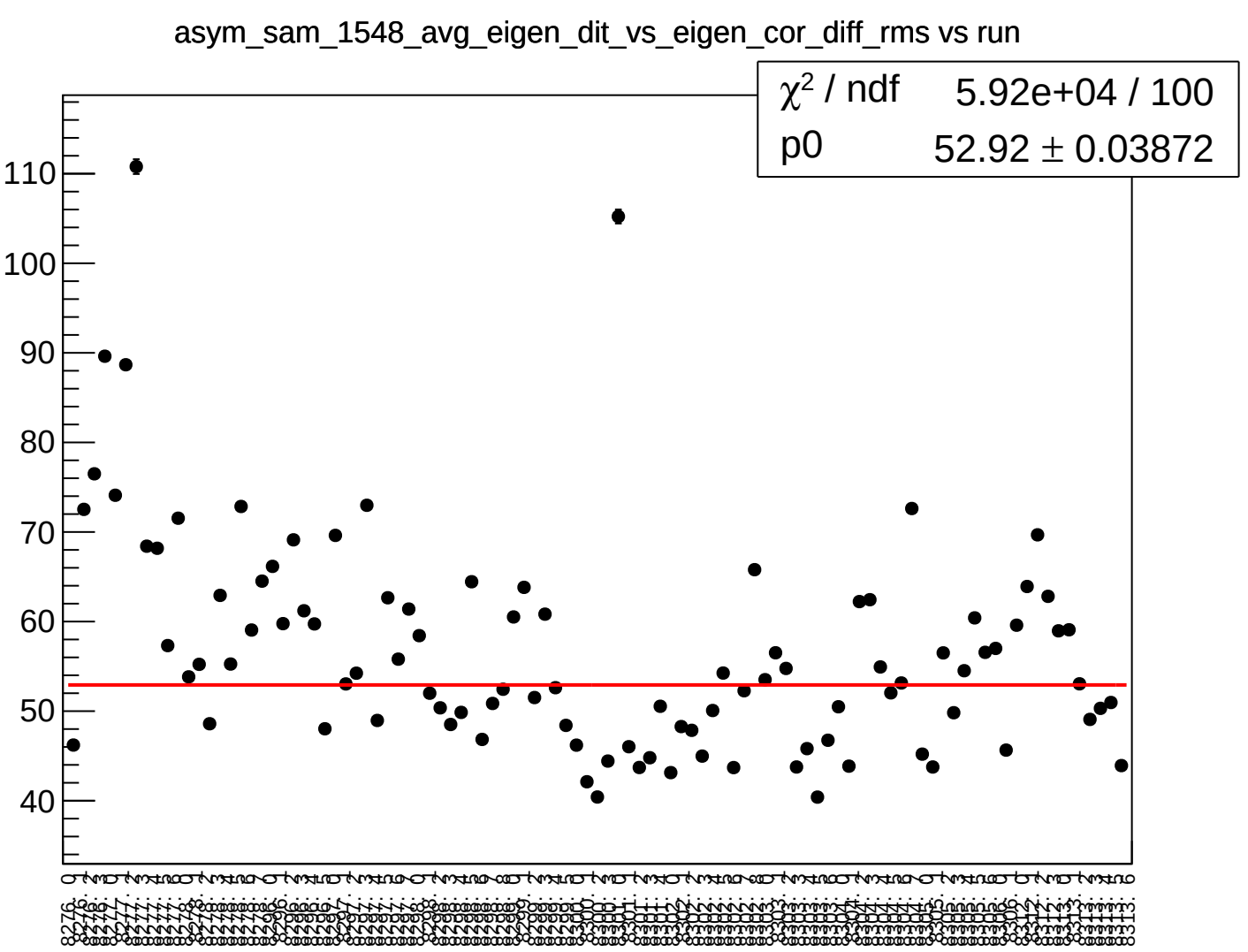

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103.9 / 100
p0 −1.235e−06 ± 4.904e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 101
Mean −6099
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.00104
Std Dev 1.014
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

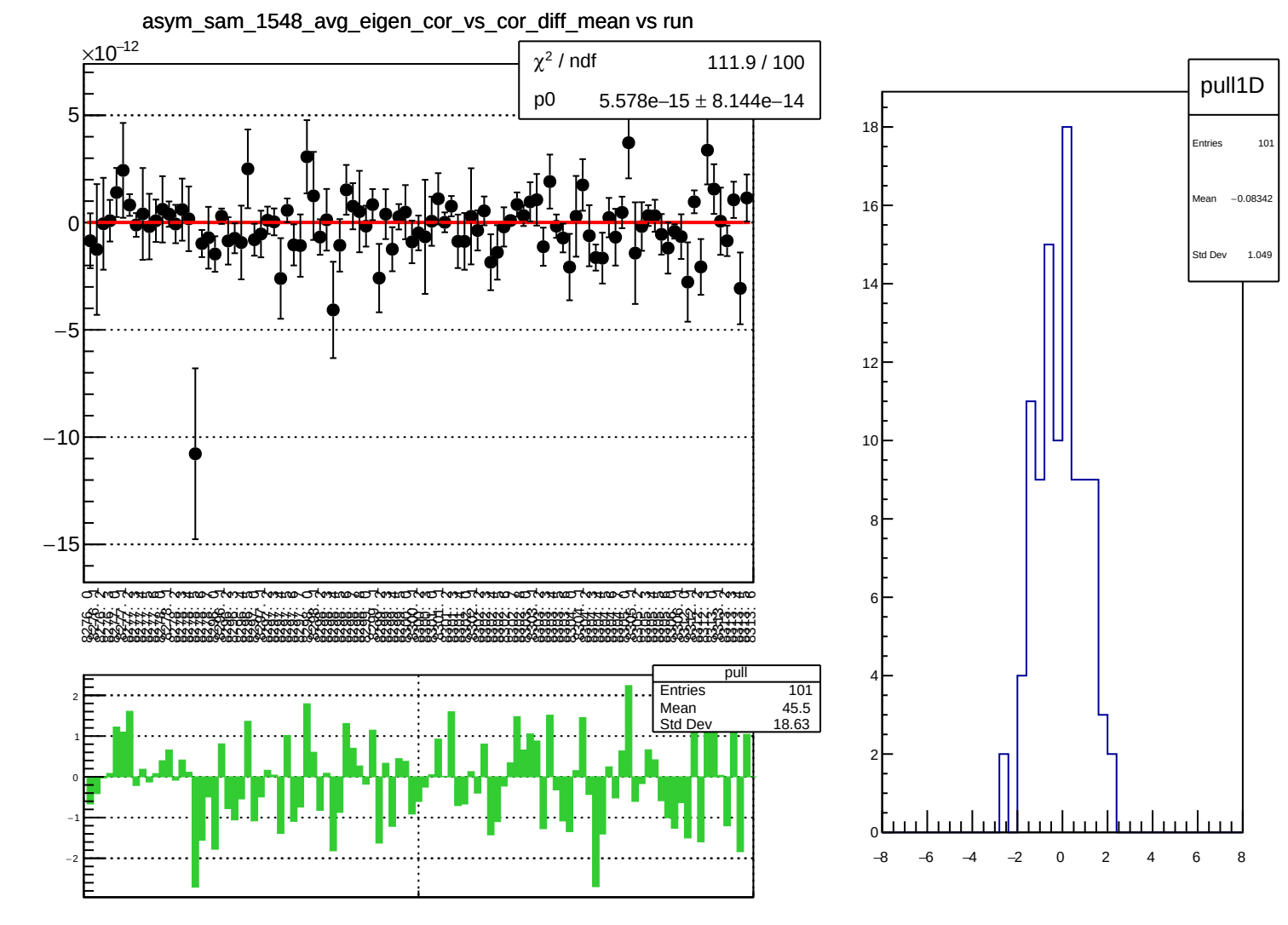

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.188e+04 / 100
p0 0.004724 ± 3.468e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035

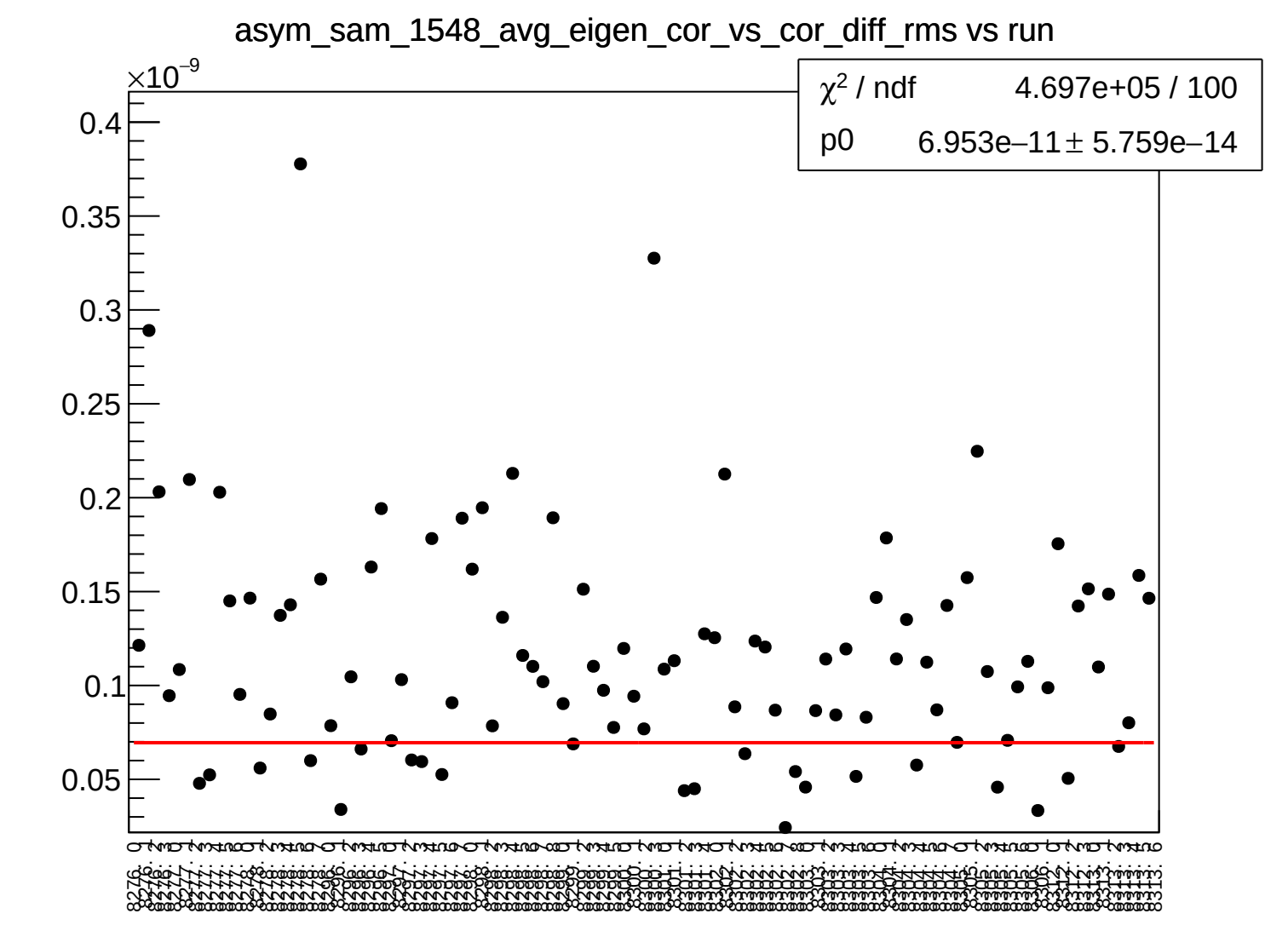

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.8 / 100
p0 0.0686 ± 0.05476
pull
Entries 101
Mean −429.6
Std Dev 0
pull1D
Entries 101
Mean −0.007888
Std Dev 0.9637

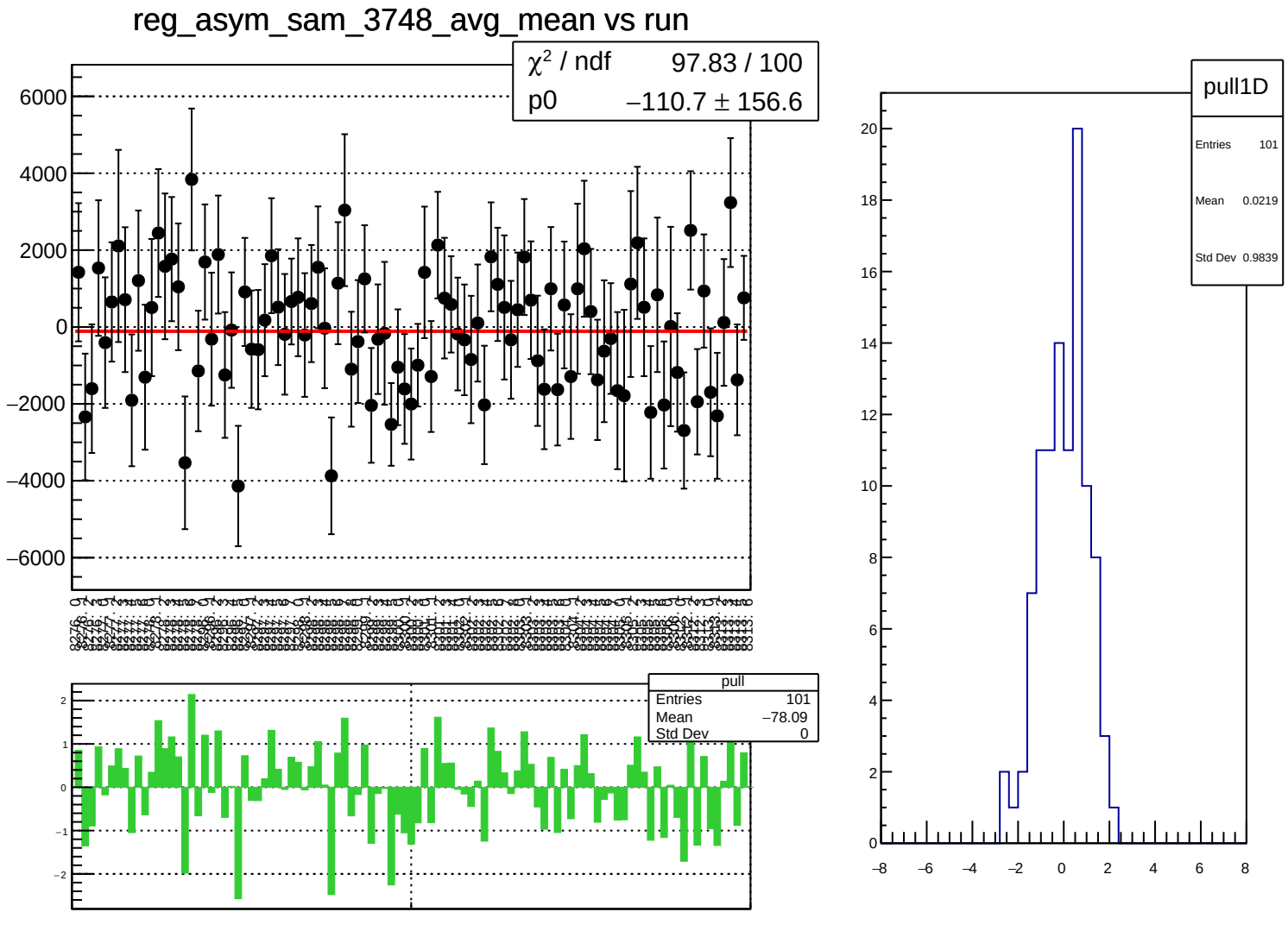

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.92e+04 / 100
p0 52.92 ± 0.03872
110
100
90
80
70
60
50
40

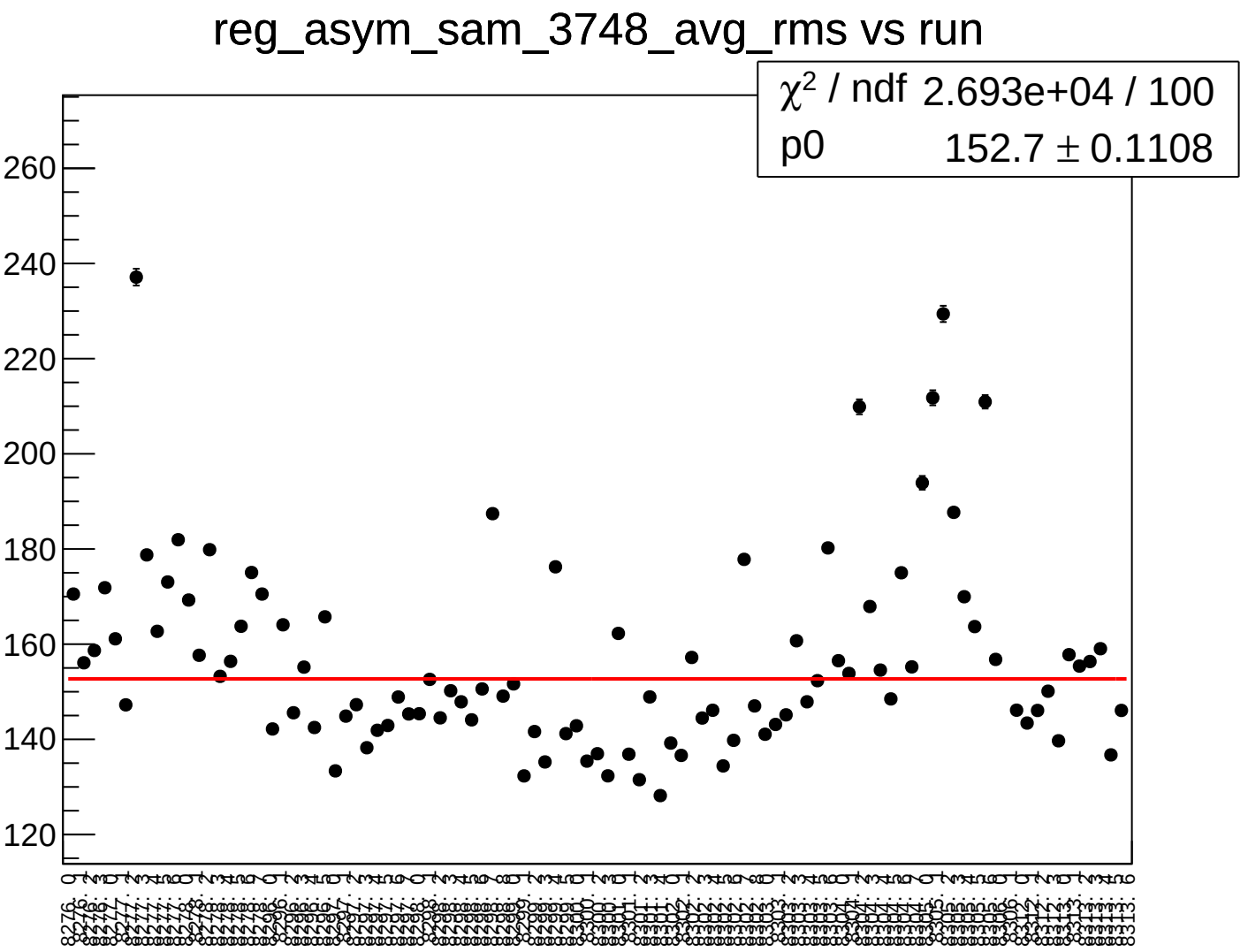

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.8 / 100
p0 0.0686 ± 0.05476
pull
Entries 101
Mean −429.6
Std Dev 0
pull1D
Entries 101
Mean −0.007888
Std Dev 0.9637

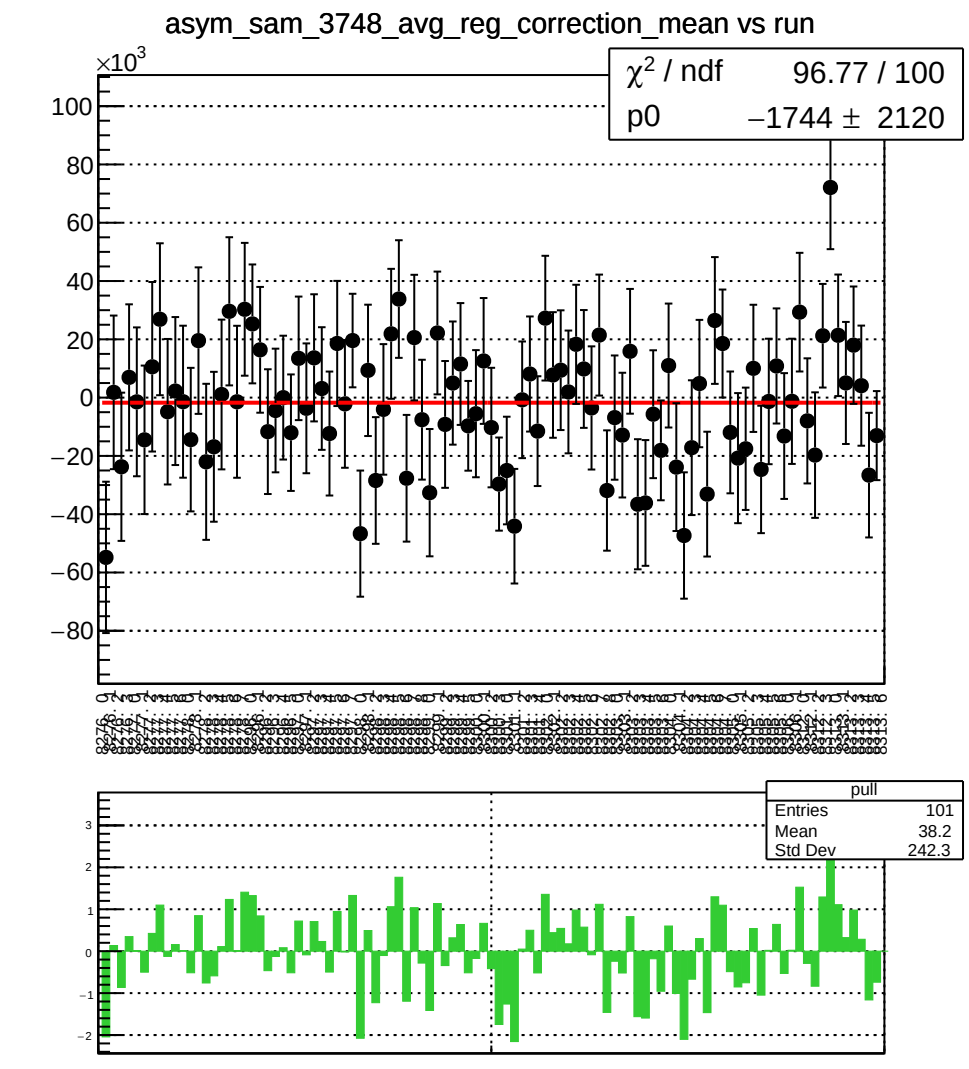

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 5.92e+04 / 100
p0 52.92 ± 0.03872
110
100
90
80
70
60
50
40

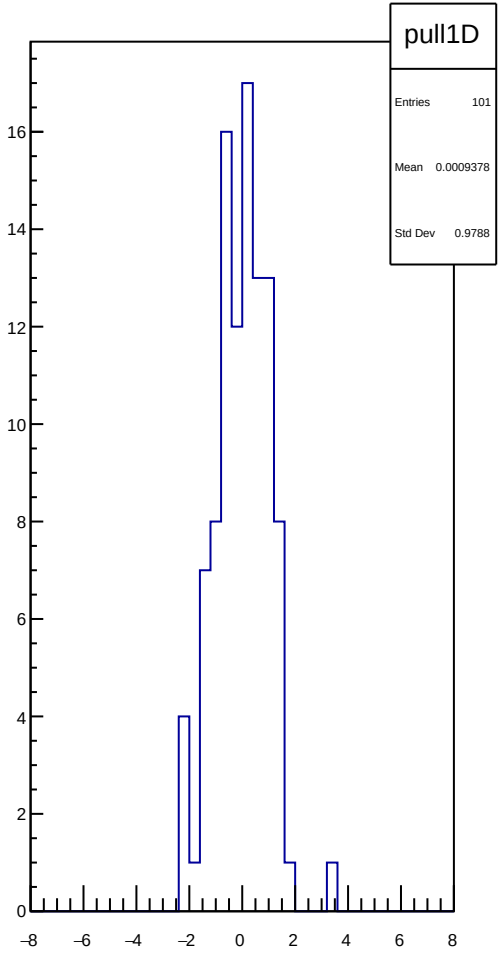

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 111.9 / 100
p0 5.578e−15 ± 8.144e−14
pull
Entries 101
Mean 45.5
Std Dev 18.63
pull1D
Entries 101
Mean −0.08342
Std Dev 1.049

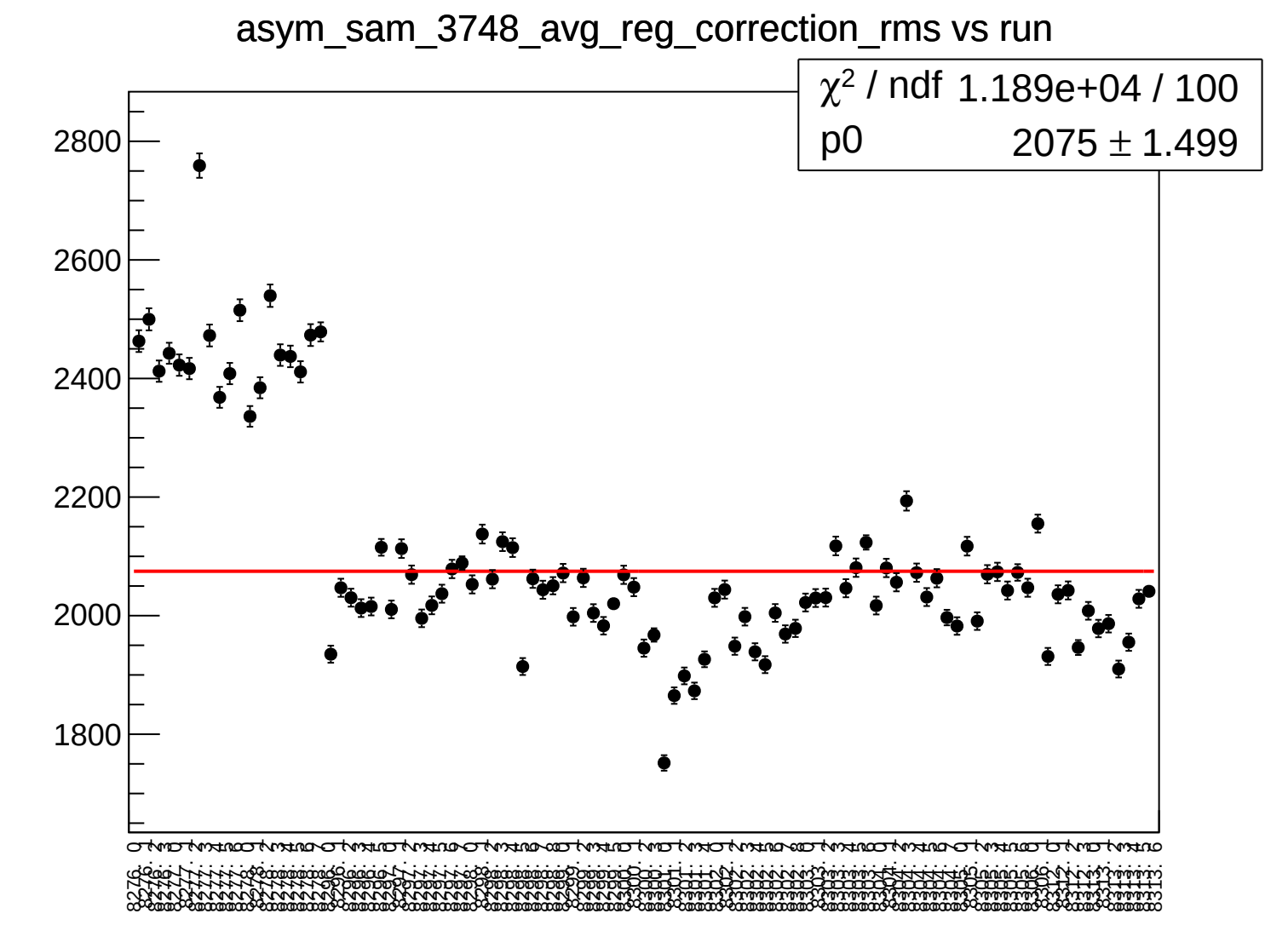

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.697e+05 / 100
p0 6.953e−11 ± 5.759e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

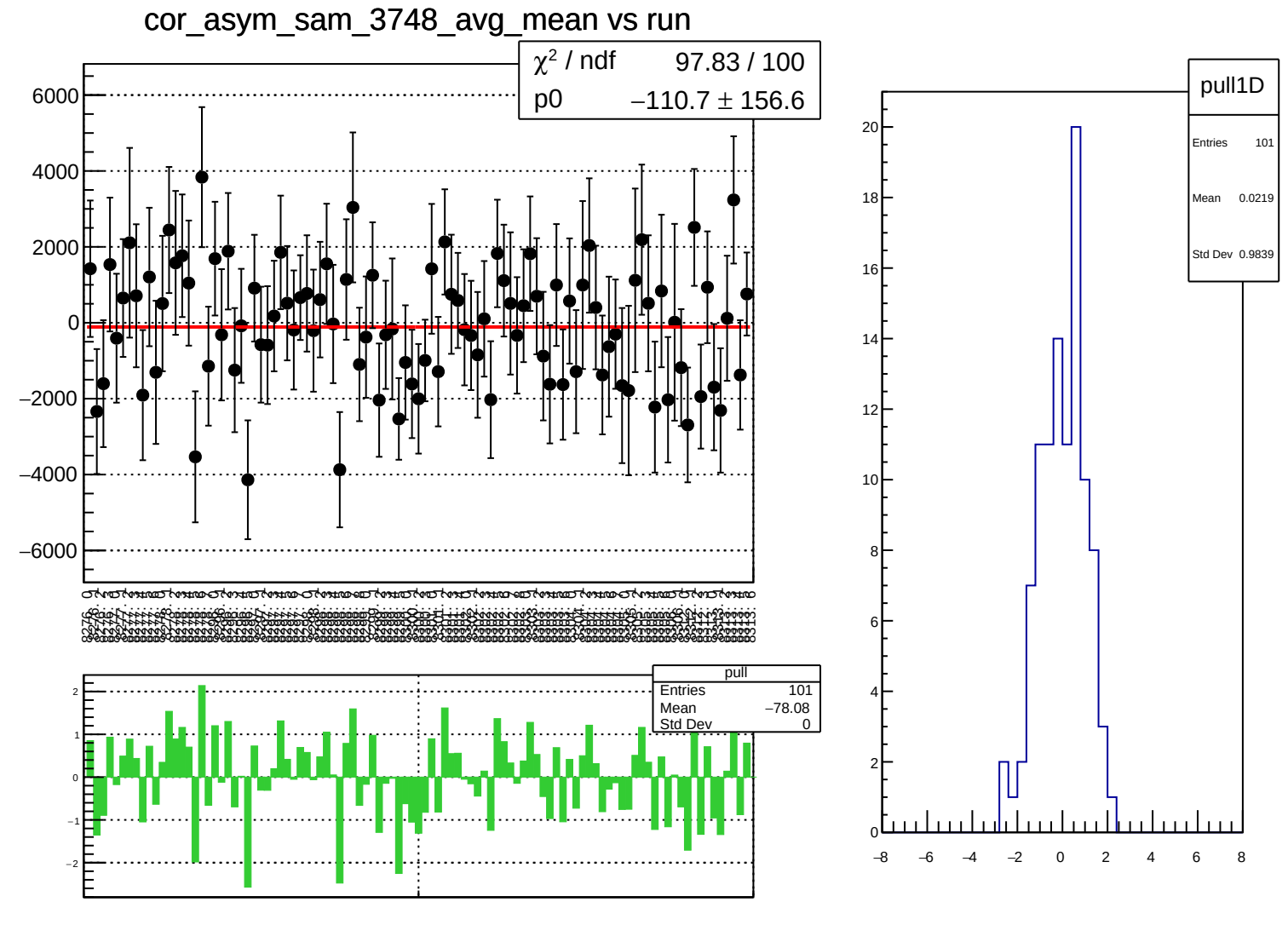

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 97.83 / 100
p0 −110.7 ± 156.6
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 101
Mean −78.09
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.0219
Std Dev 0.9839
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

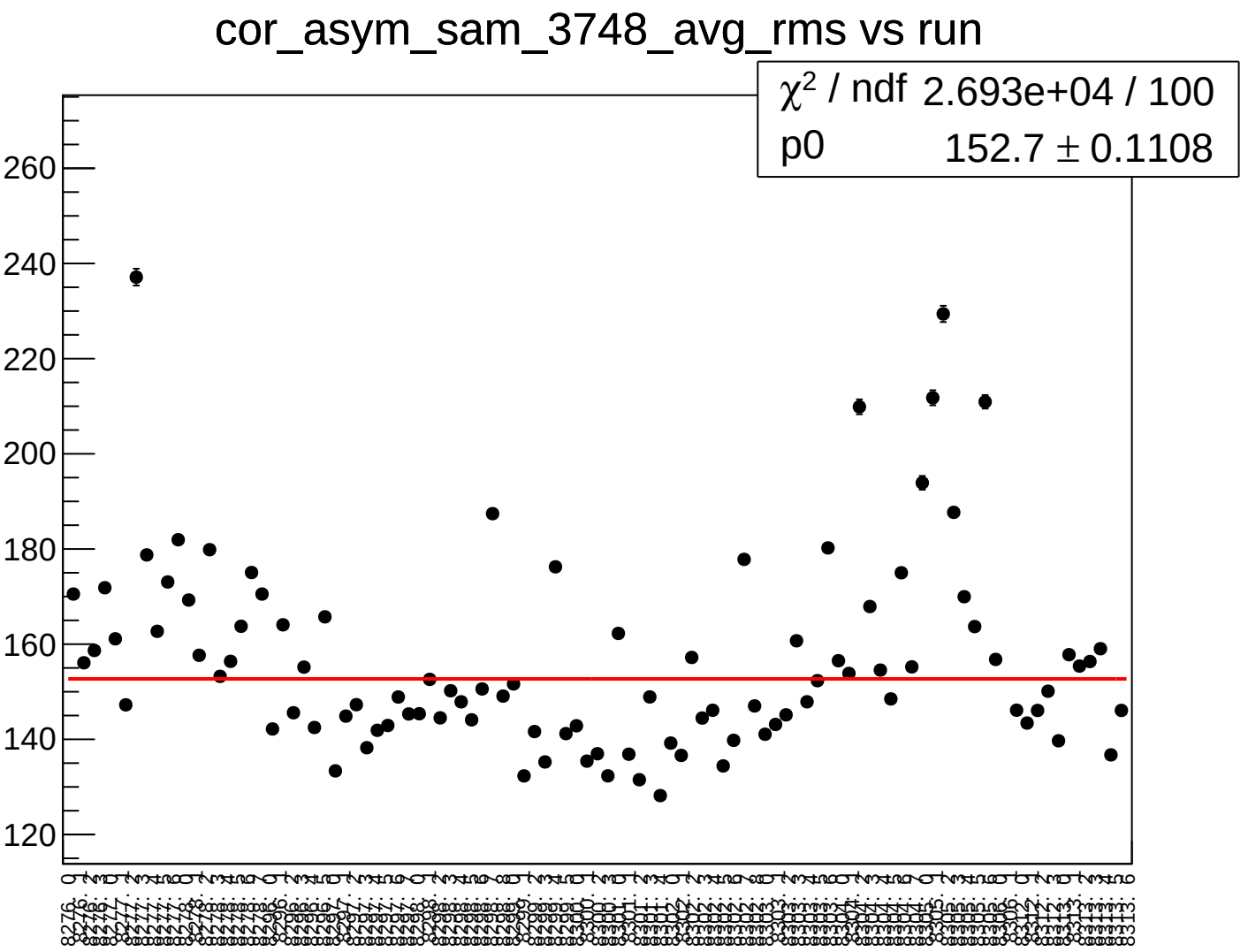

reg_asym_sam_3748_avg_rms vs run
χ² / ndf 2.693e+04 / 100
p0 152.7 ± 0.1108
260
240
220
200
180
160
140
120

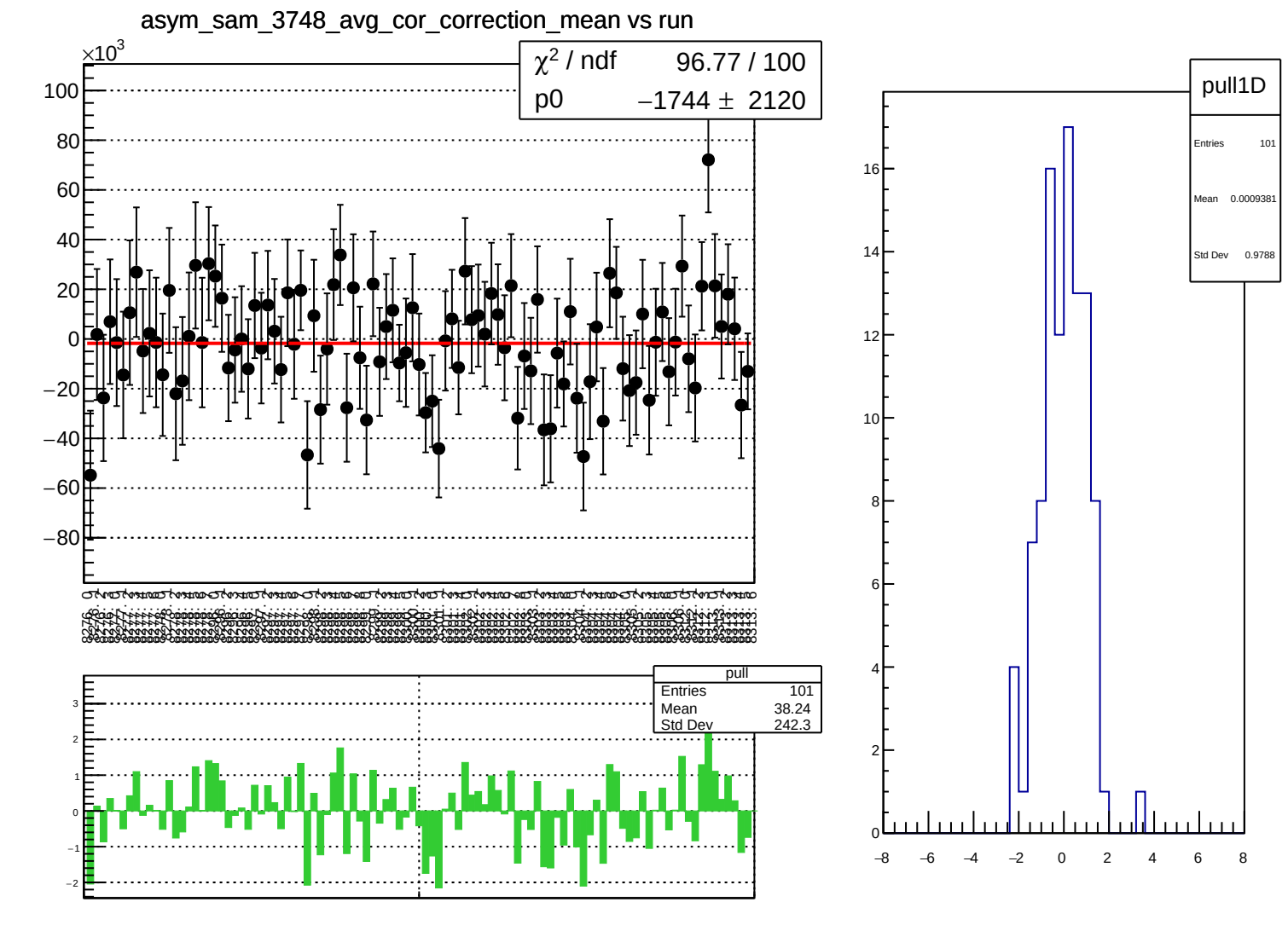

asym_sam_3748_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 96.77 / 100
p0 −1744 ± 2120
pull
Entries 101
Mean 38.2
Std Dev 242.3

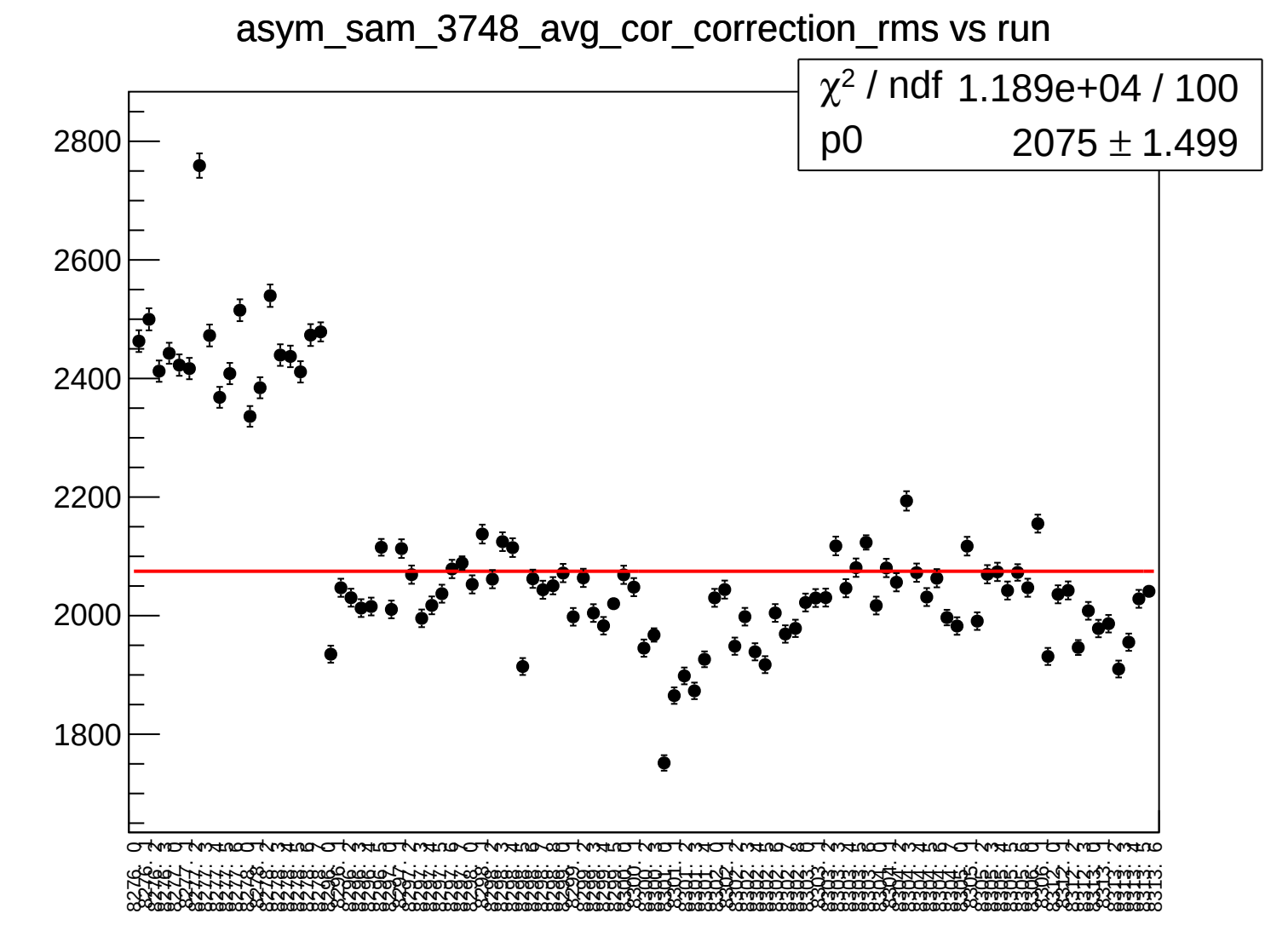

pull1D
Entries 101
Mean 0.0009378
Std Dev 0.9788

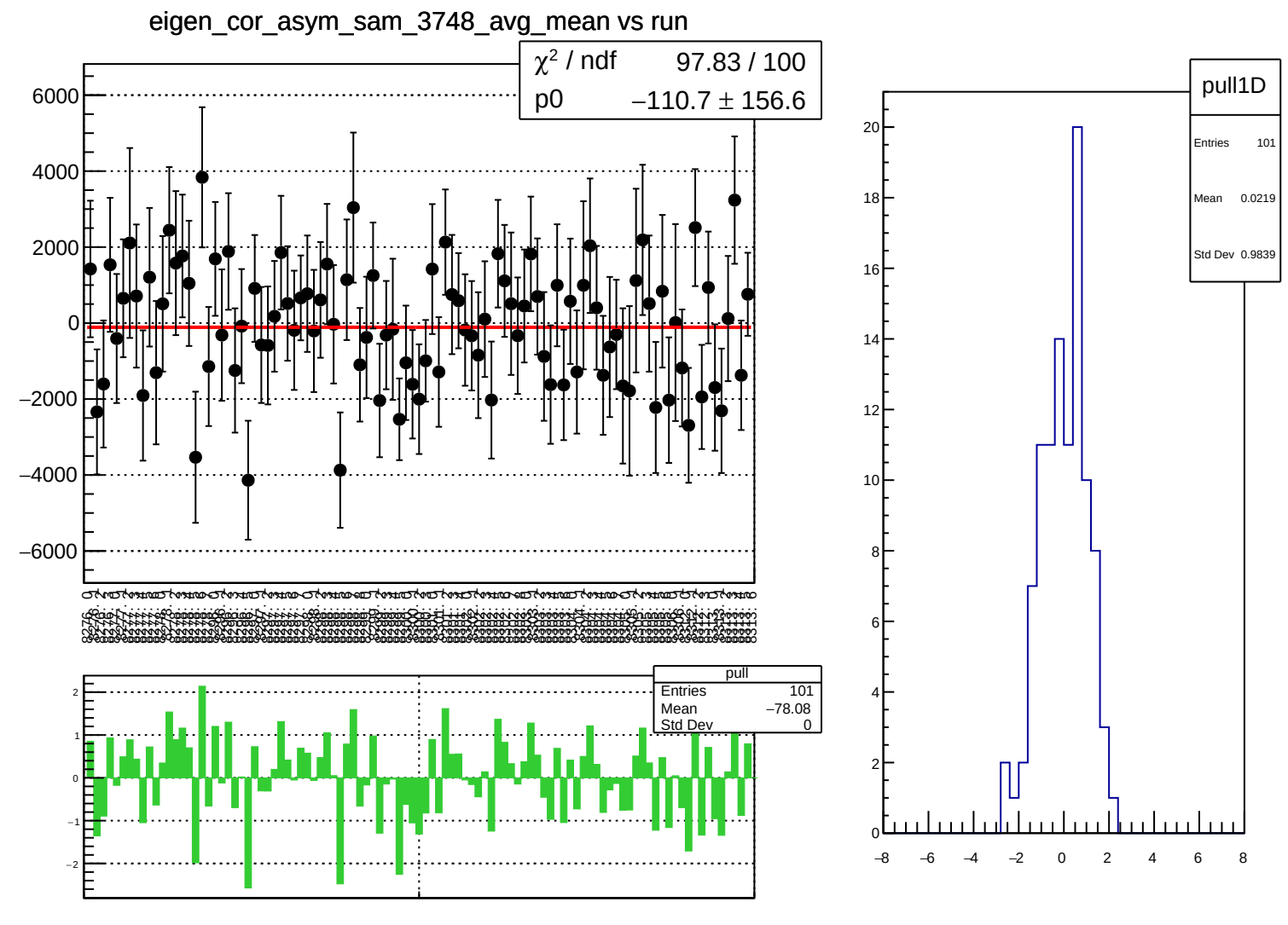

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 1.189e+04 / 100
p0 2075 ± 1.499
2800
2600
2400
2200
2000
1800

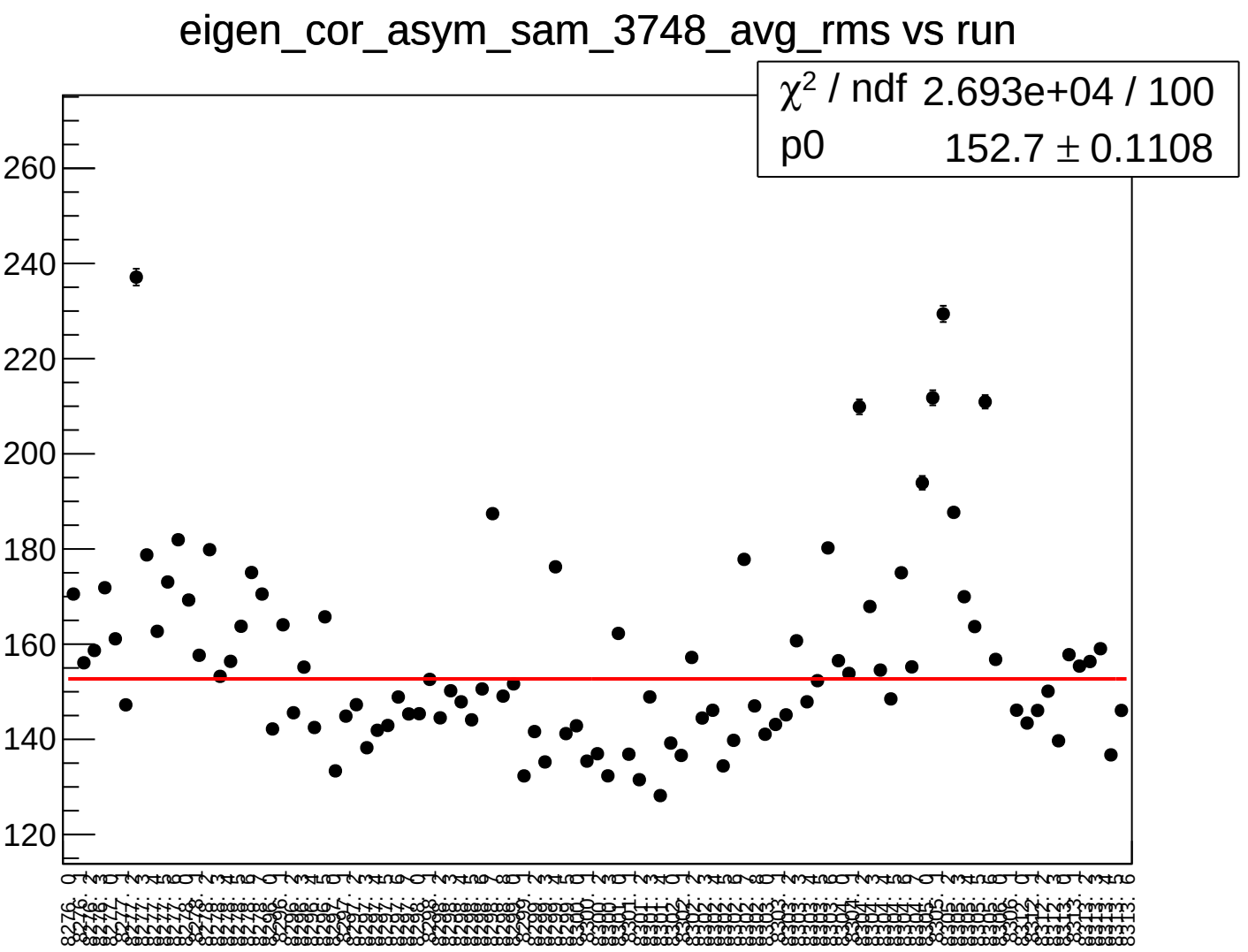

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 97.83 / 100
p0 −110.7 ± 156.6
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 101
Mean −78.08
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.0219
Std Dev 0.9839
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

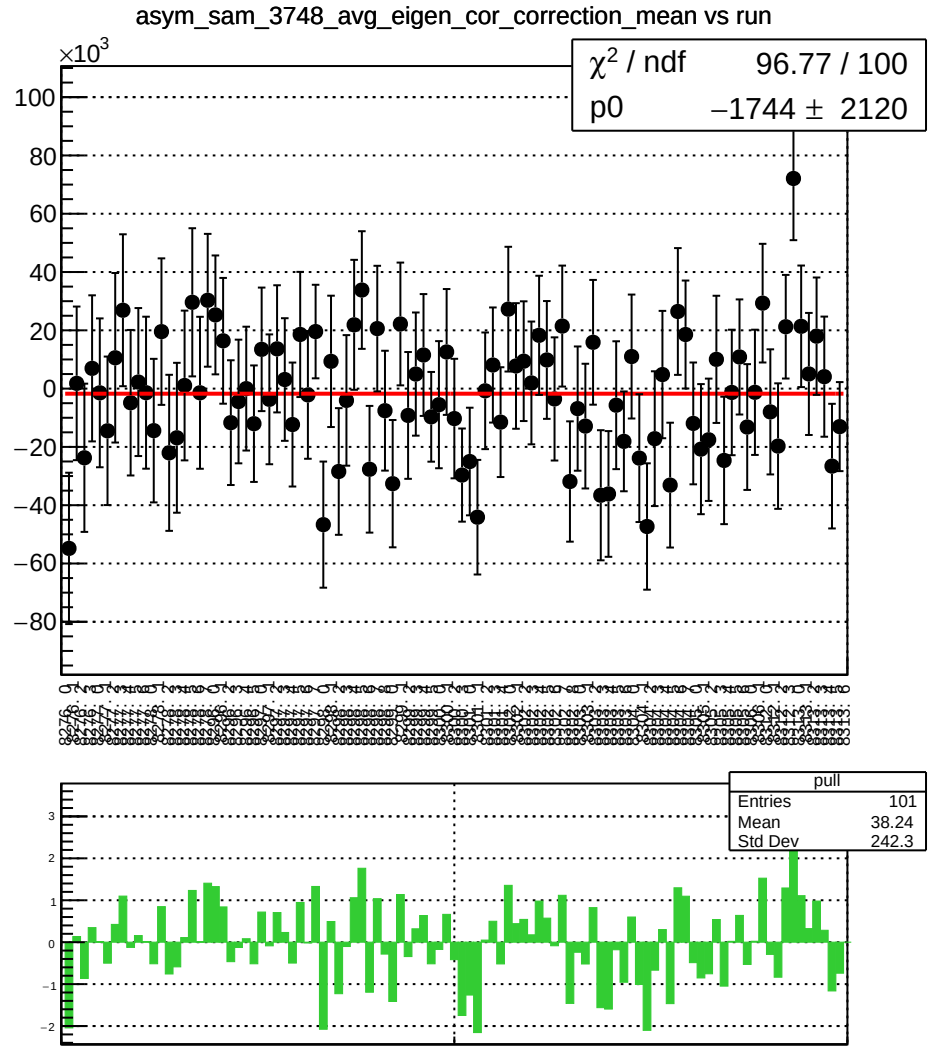

cor_asym_sam_3748_avg_rms vs run
χ² / ndf 2.693e+04 / 100
p0 152.7 ± 0.1108
260
240
220
200
180
160
140
120

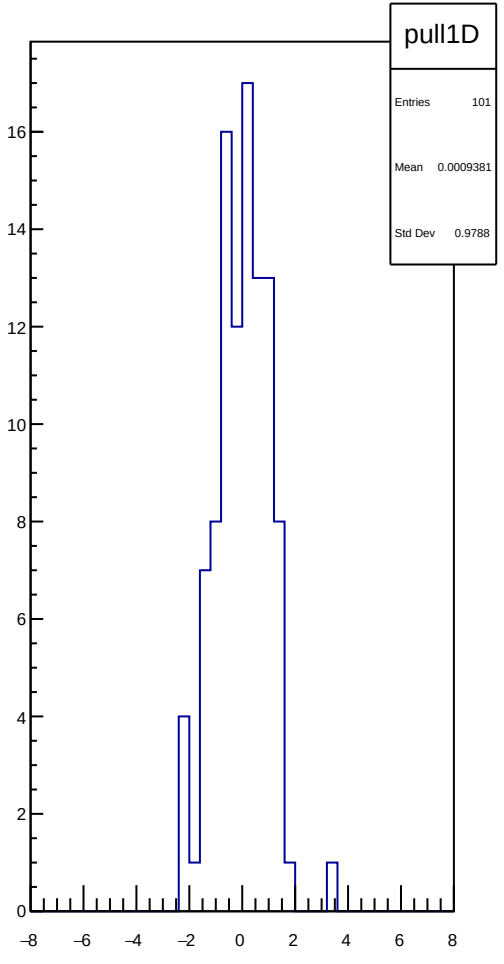

asym_sam_3748_avg_cor_correction_mean vs run
×10^3
χ² / ndf 96.77 / 100
p0 −1744 ± 2120
pull
Entries 101
Mean 38.24
Std Dev 242.3
pull1D
Entries 101
Mean 0.0009381
Std Dev 0.9788

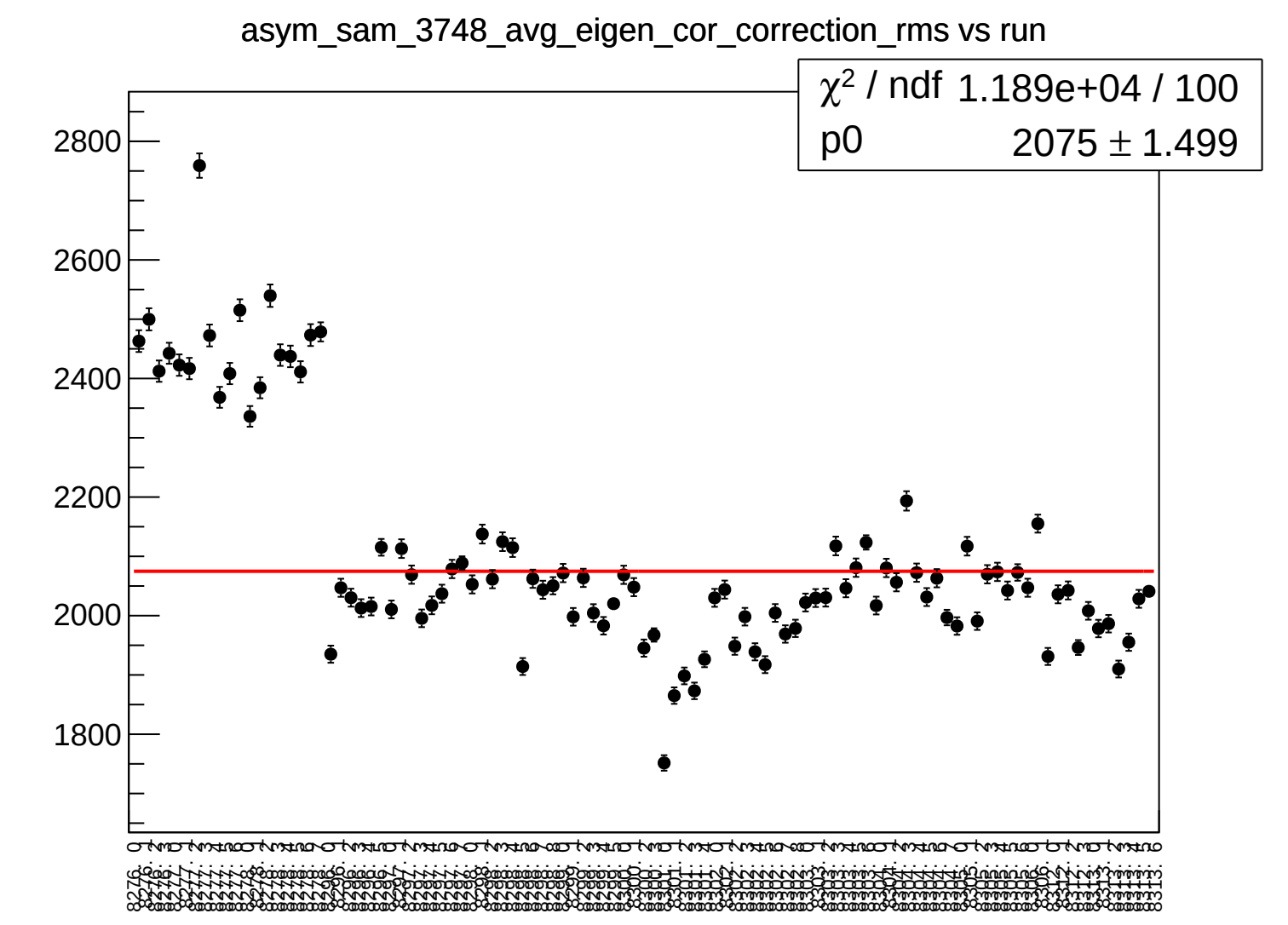

asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 1.189e+04 / 100
p0 2075 ± 1.499
2800
2600
2400
2200
2000
1800

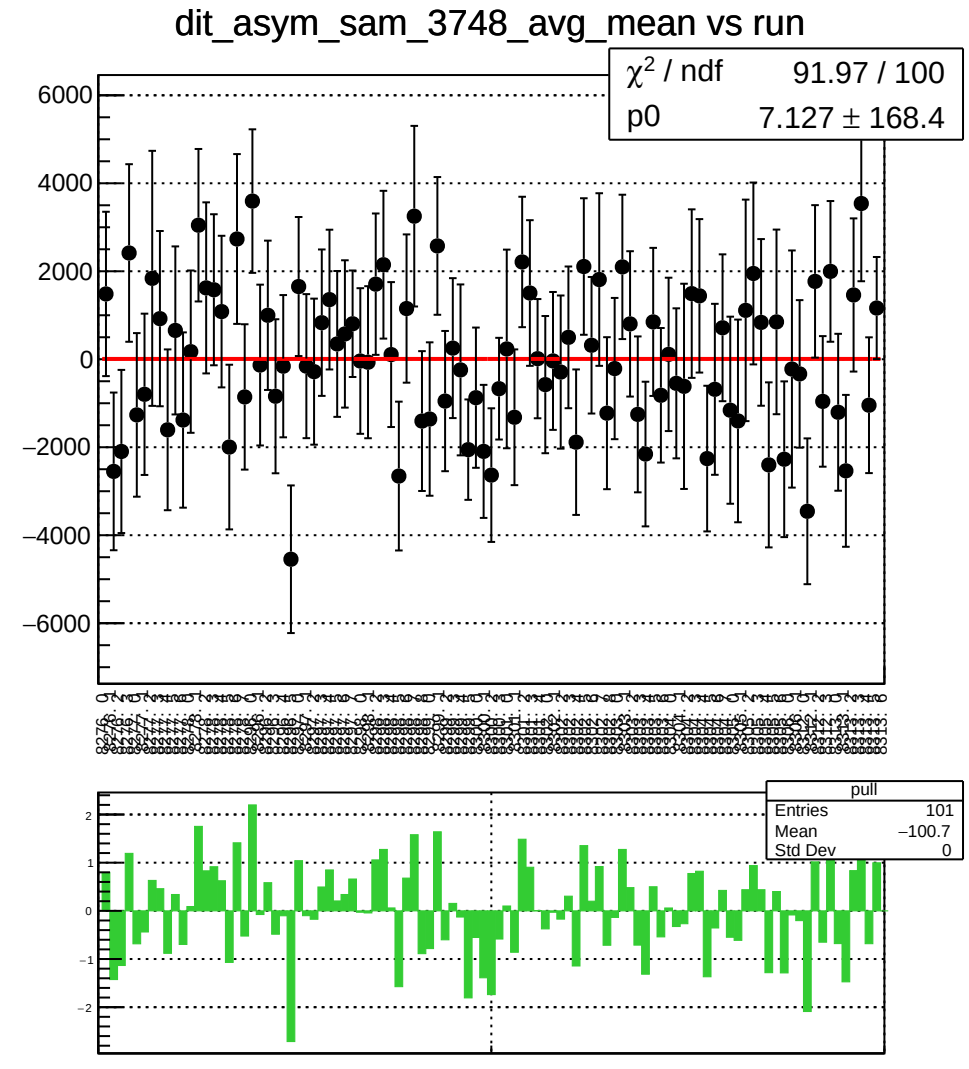

eigen_cor_asym_sam_3748_avg_mean vs run
χ² / ndf 97.83 / 100
p0 −110.7 ± 156.6
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 101
Mean −78.08
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.0219
Std Dev 0.9839
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

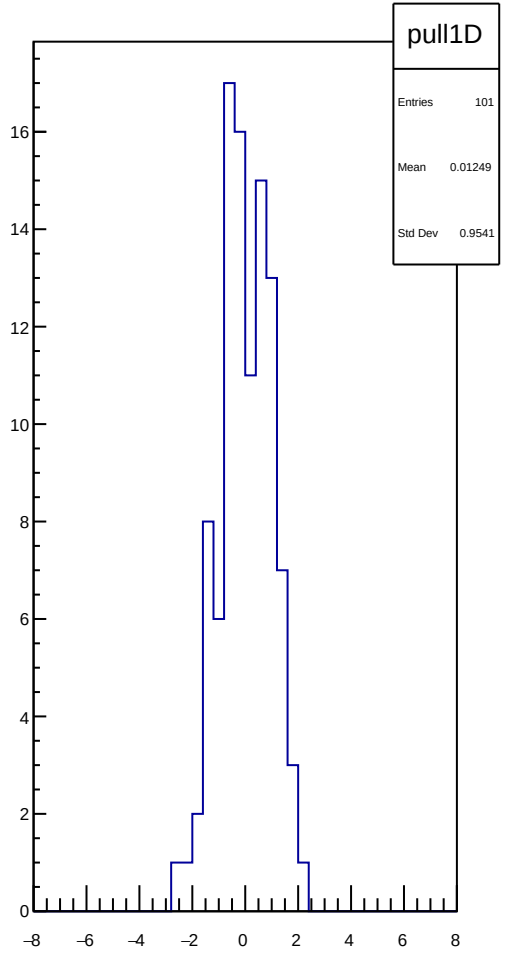

eigen_cor_asym_sam_3748_avg_rms vs run
χ² / ndf 2.693e+04 / 100
p0 152.7 ± 0.1108
260
240
220
200
180
160
140
120

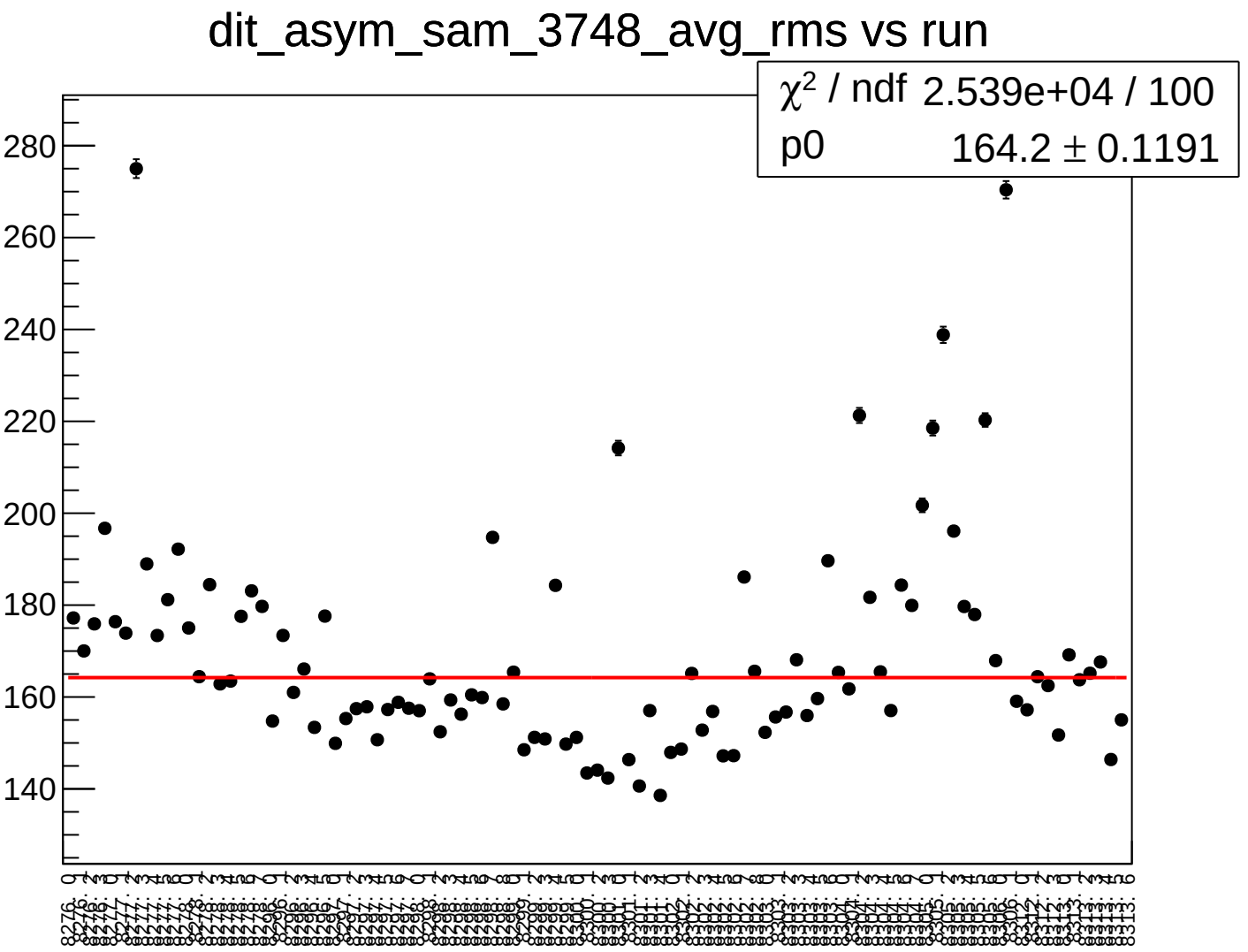

asym_sam_3748_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 96.77 / 100
p0 −1744 ± 2120
pull
Entries 101
Mean 38.24
Std Dev 242.3

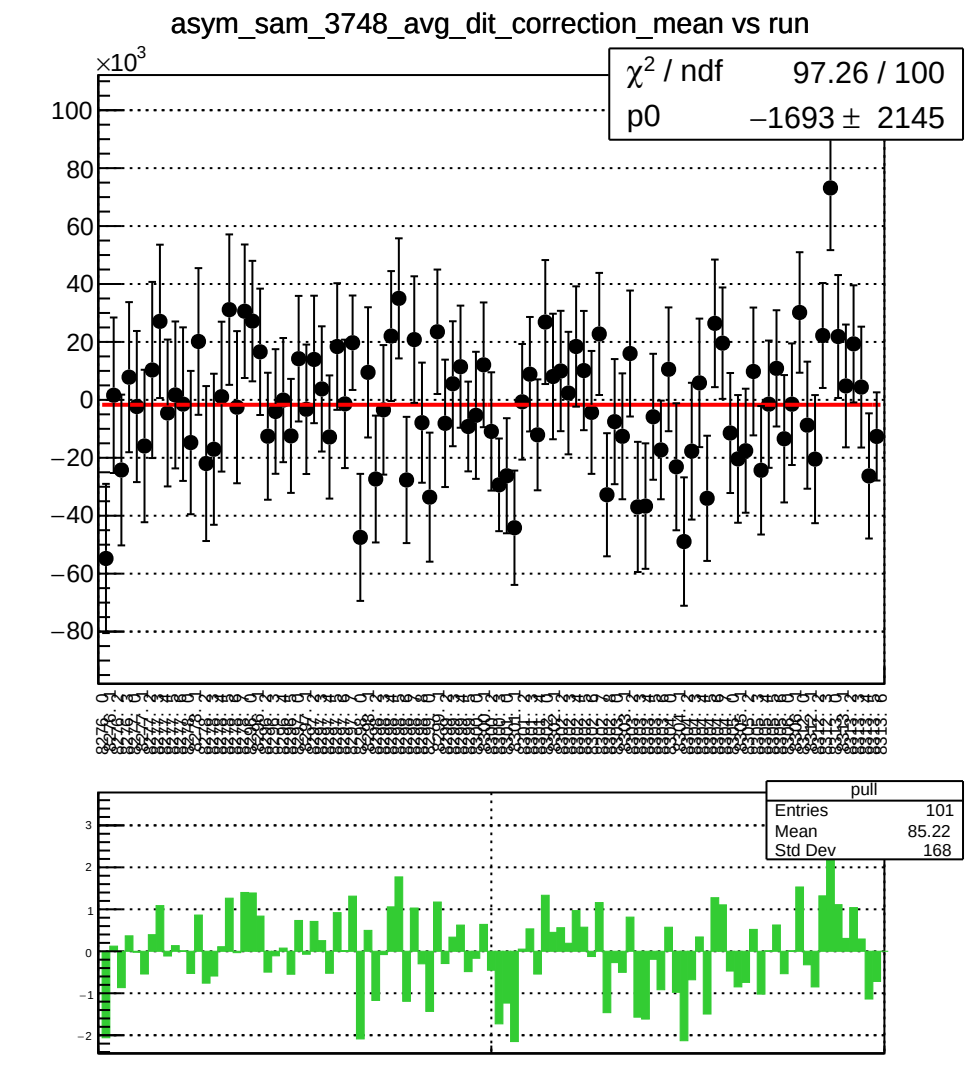

pull1D
Entries 101
Mean 0.0009381
Std Dev 0.9788

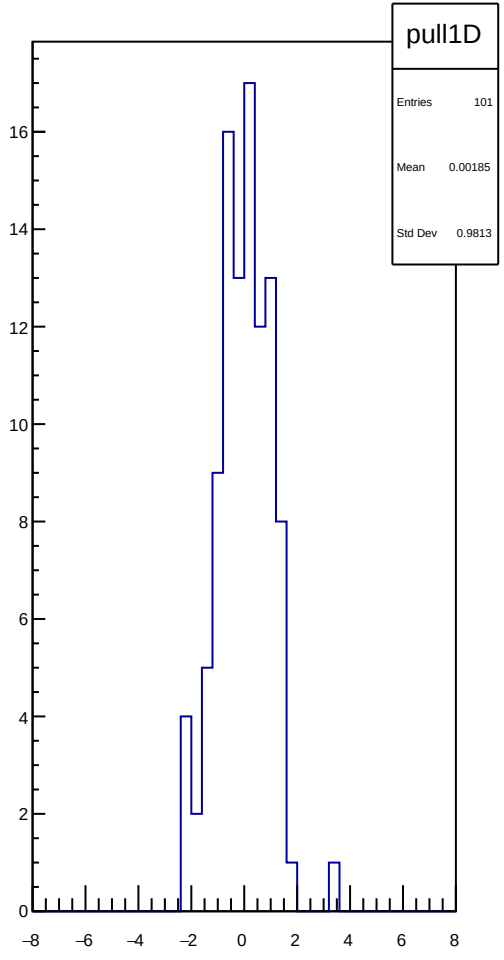

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.189e+04 / 100
p0 2075 ± 1.499
2800
2600
2400
2200
2000
1800

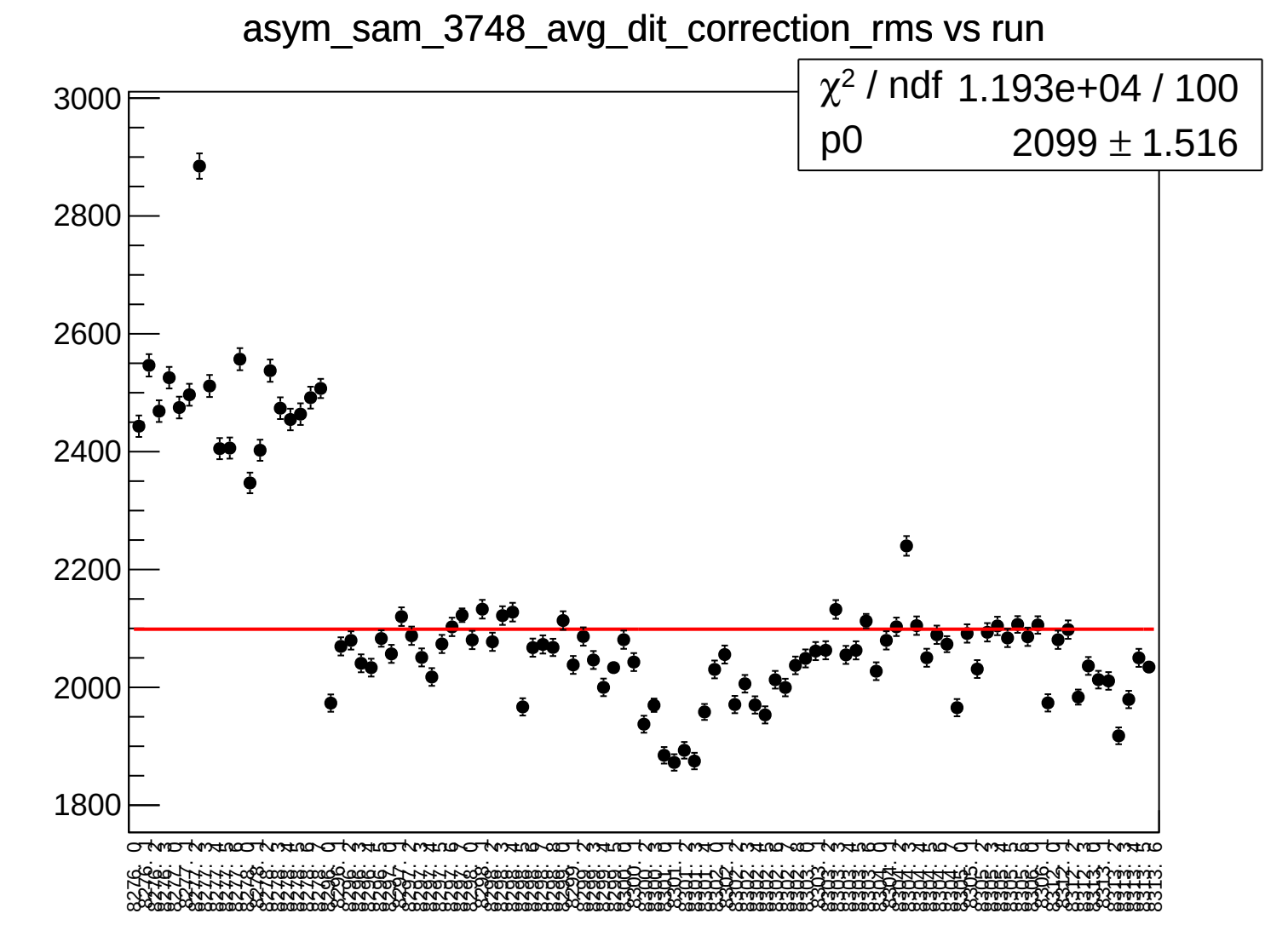

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 91.97 / 100
p0 7.127 ± 168.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 101
Mean −100.7
Std Dev 0
2
1
0
−1
−2

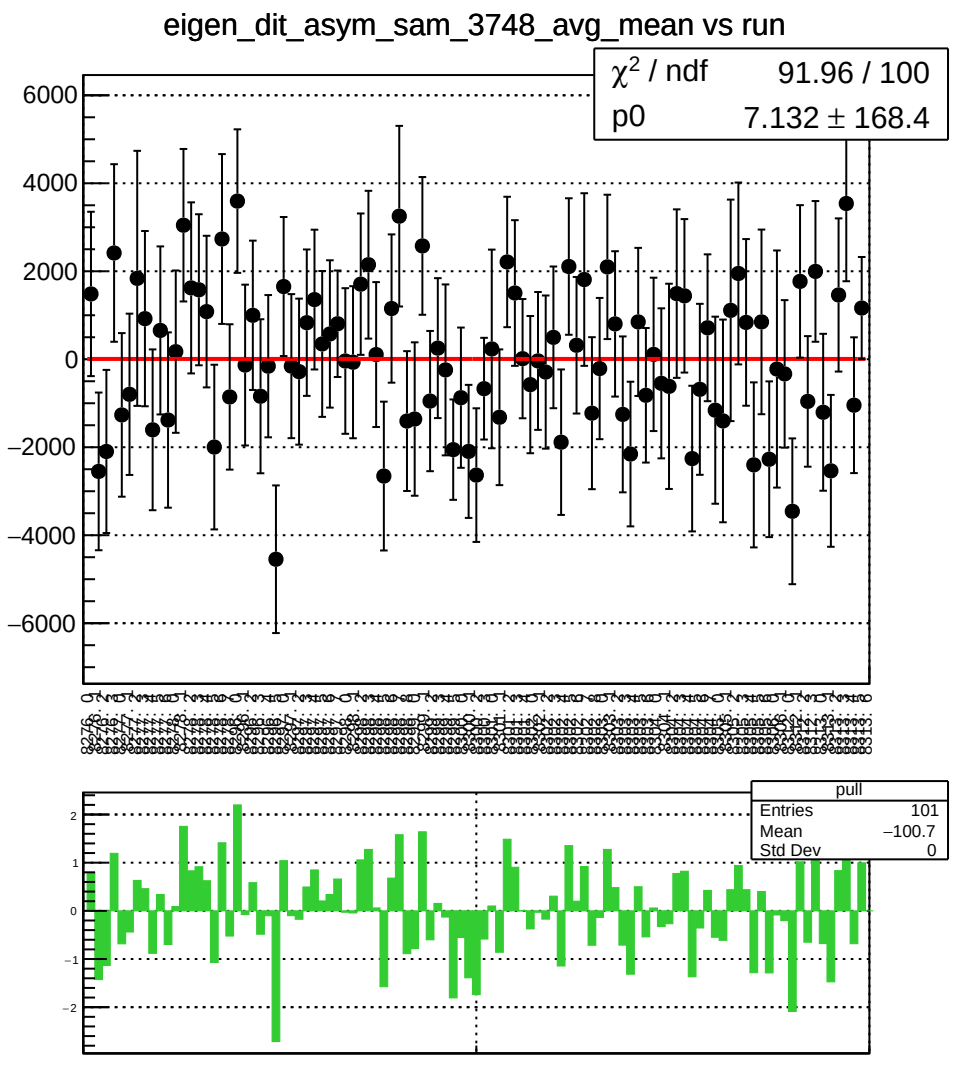

pull1D
Entries 101
Mean 0.01249
Std Dev 0.9541
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

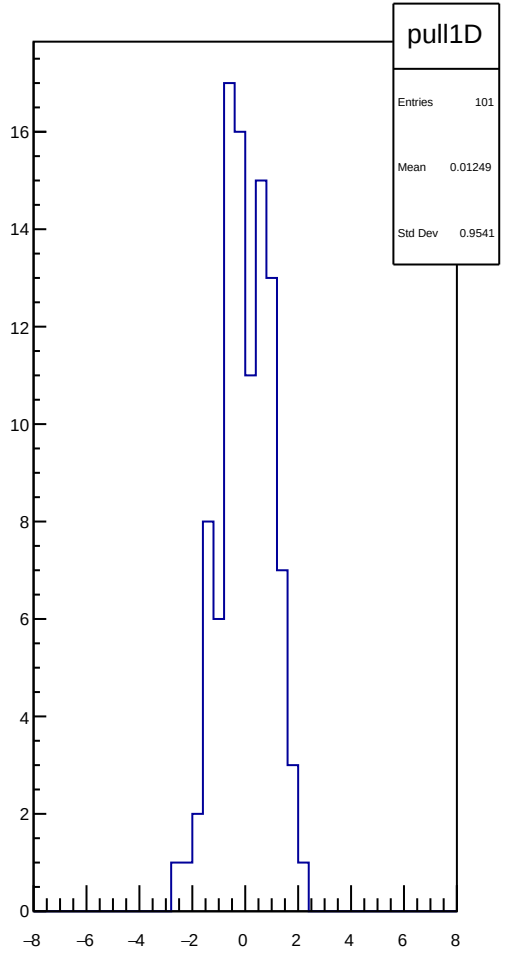

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 2.539e+04 / 100
p0 164.2 ± 0.1191
280
260
240
220
200
180
160
140

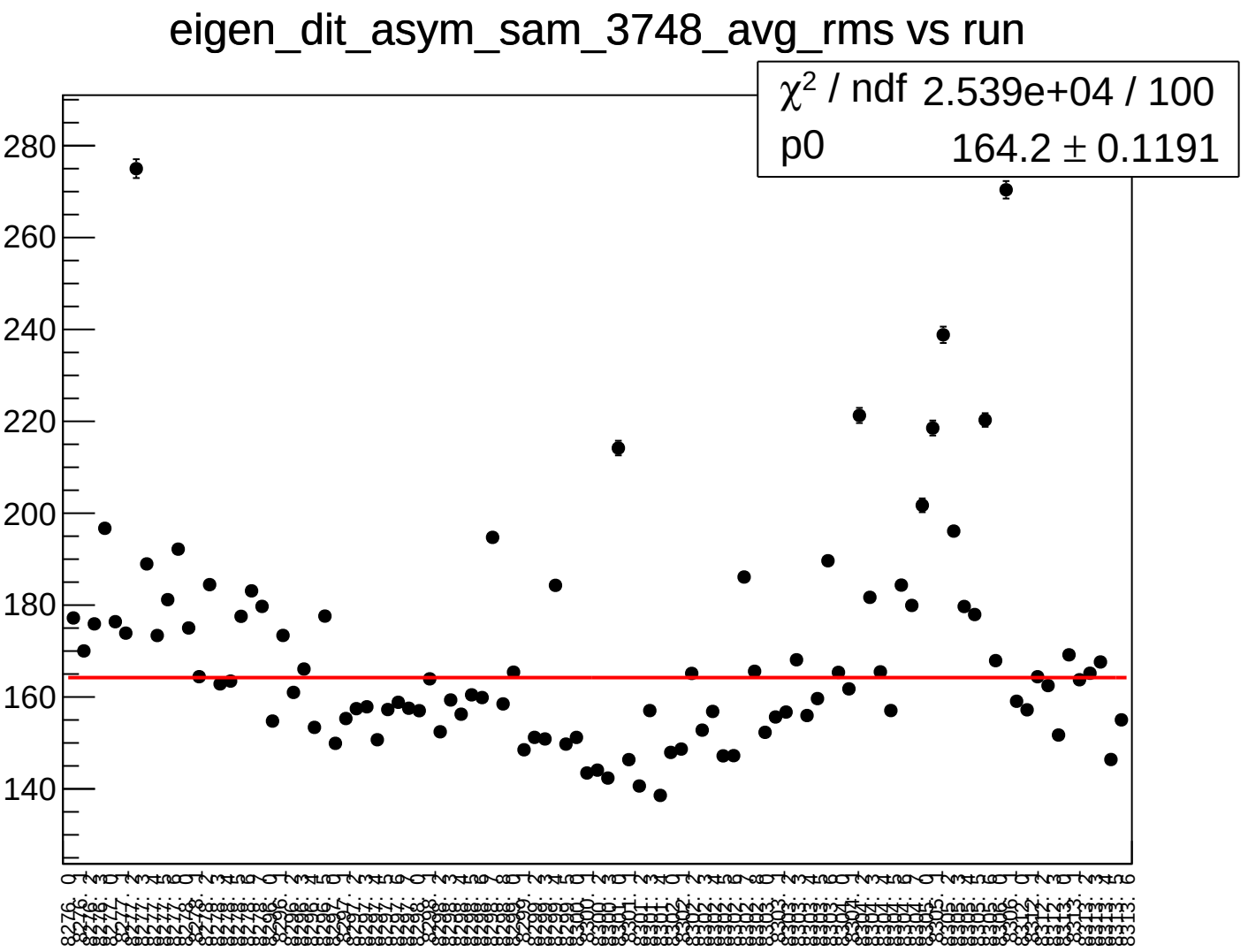

asym_sam_3748_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 97.26 / 100
p0 −1693 ± 2145
pull
Entries 101
Mean 85.22
Std Dev 168

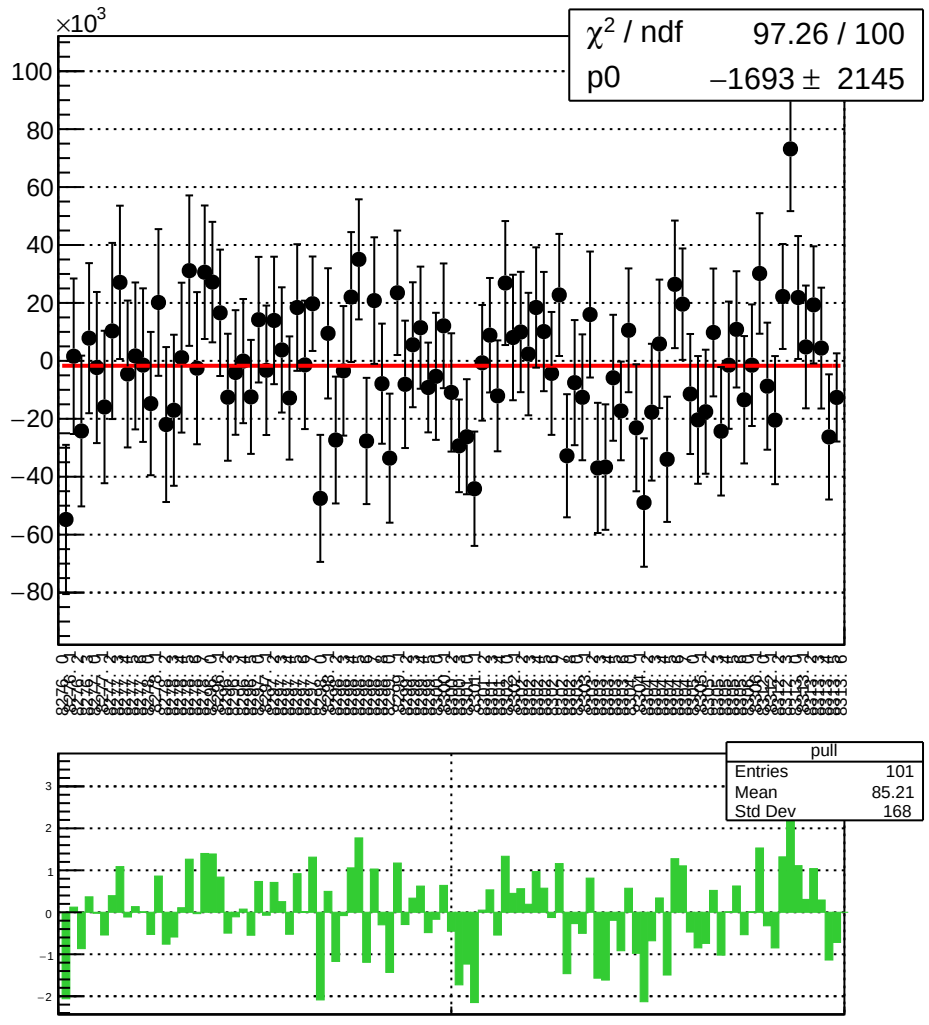

pull1D
Entries 101
Mean 0.00185
Std Dev 0.9813

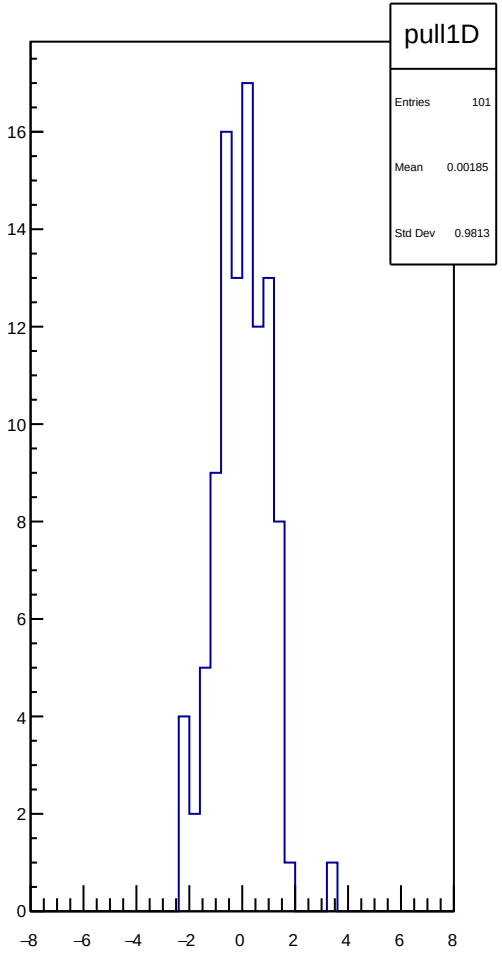

asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 1.193e+04 / 100
p0 2099 ± 1.516
3000
2800
2600
2400
2200
2000
1800

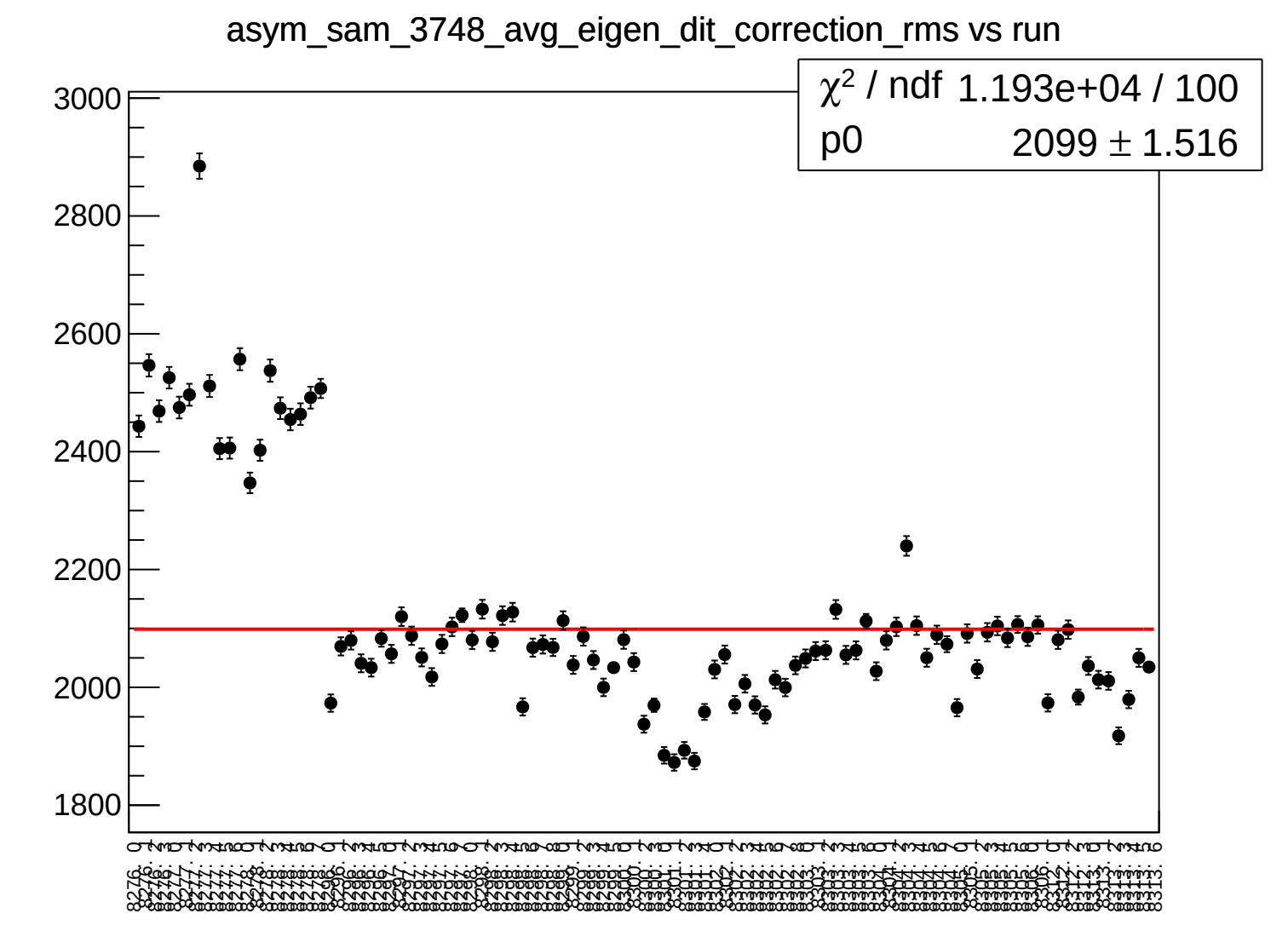

eigen_dit_asym_sam_3748_avg_mean vs run
χ² / ndf 91.96 / 100
p0 7.132 ± 168.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 101
Mean −100.7
Std Dev 0
2
1
0
−1
−2

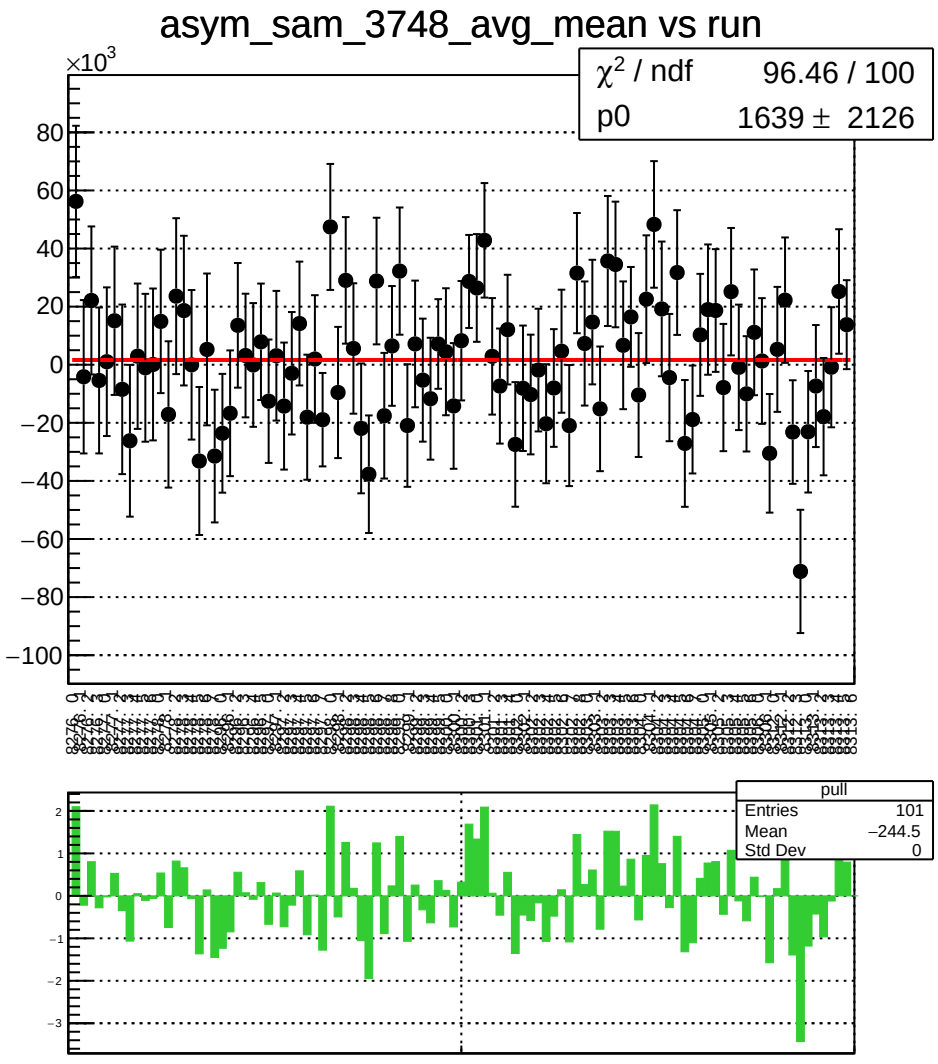

pull1D
Entries 101
Mean 0.01249
Std Dev 0.9541
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

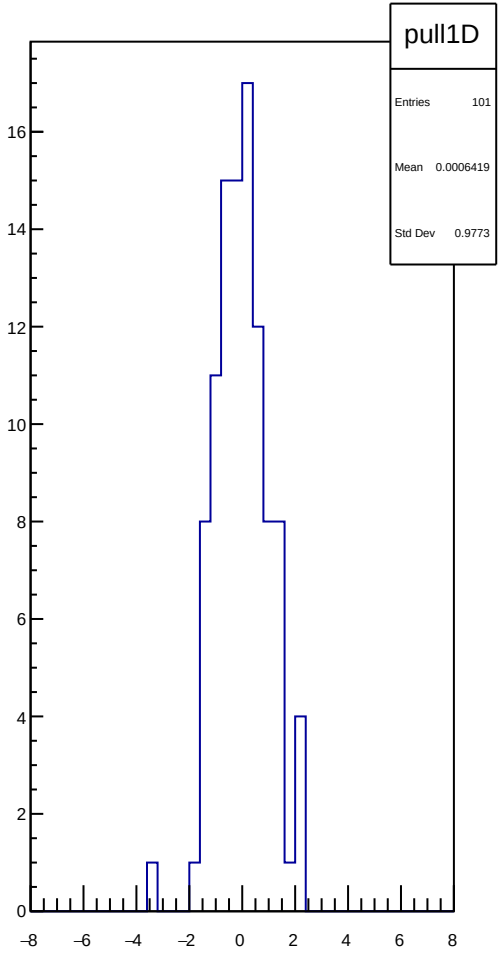

eigen_dit_asym_sam_3748_avg_rms vs run
χ^2 / ndf 2.539e+04 / 100
p0 164.2 ± 0.1191
280
260
240
220
200
180
160
140

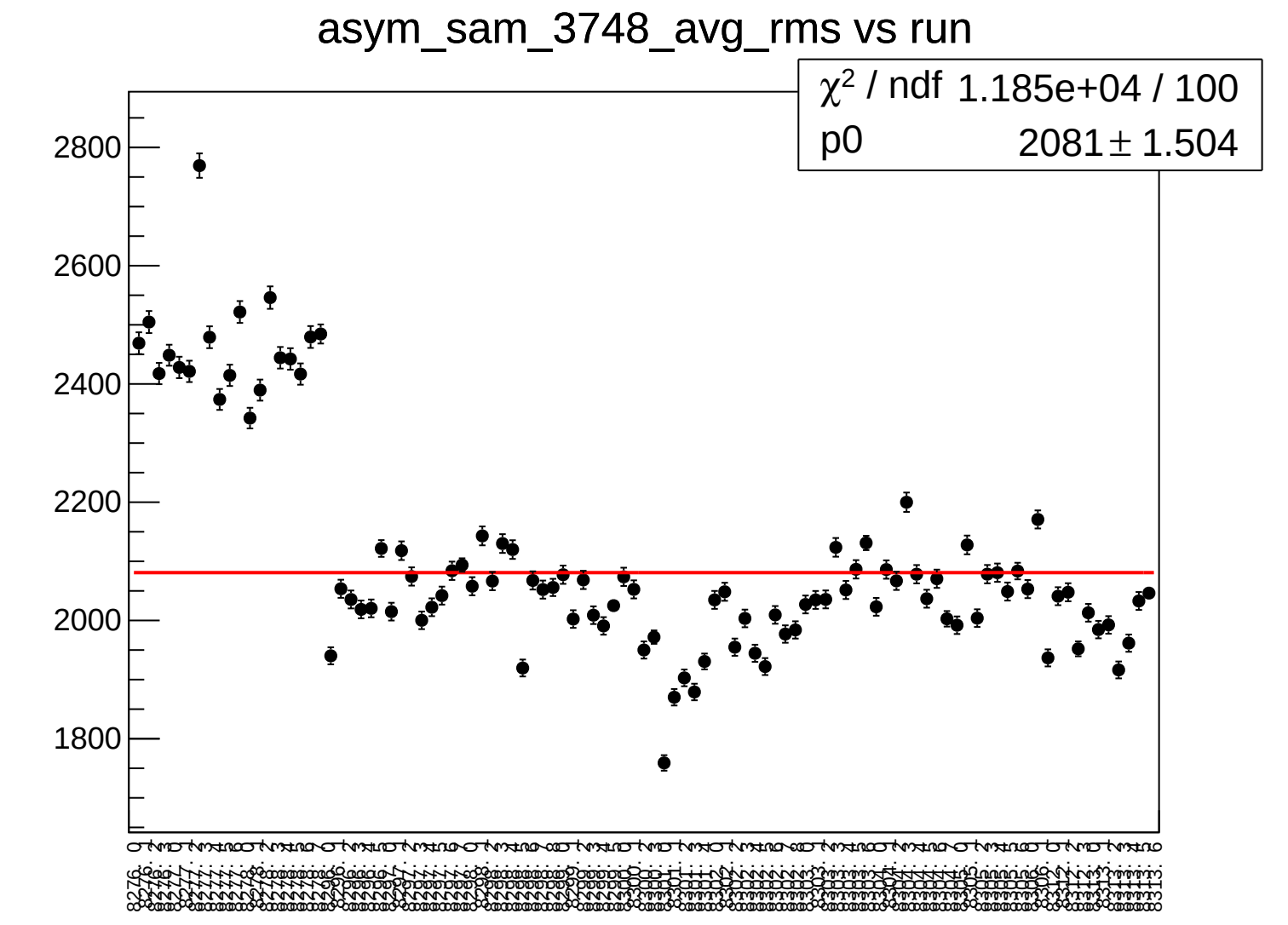

asym_sam_3748_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 97.26 / 100
p0 −1693 ± 2145
pull
Entries 101
Mean 85.21
Std Dev 168

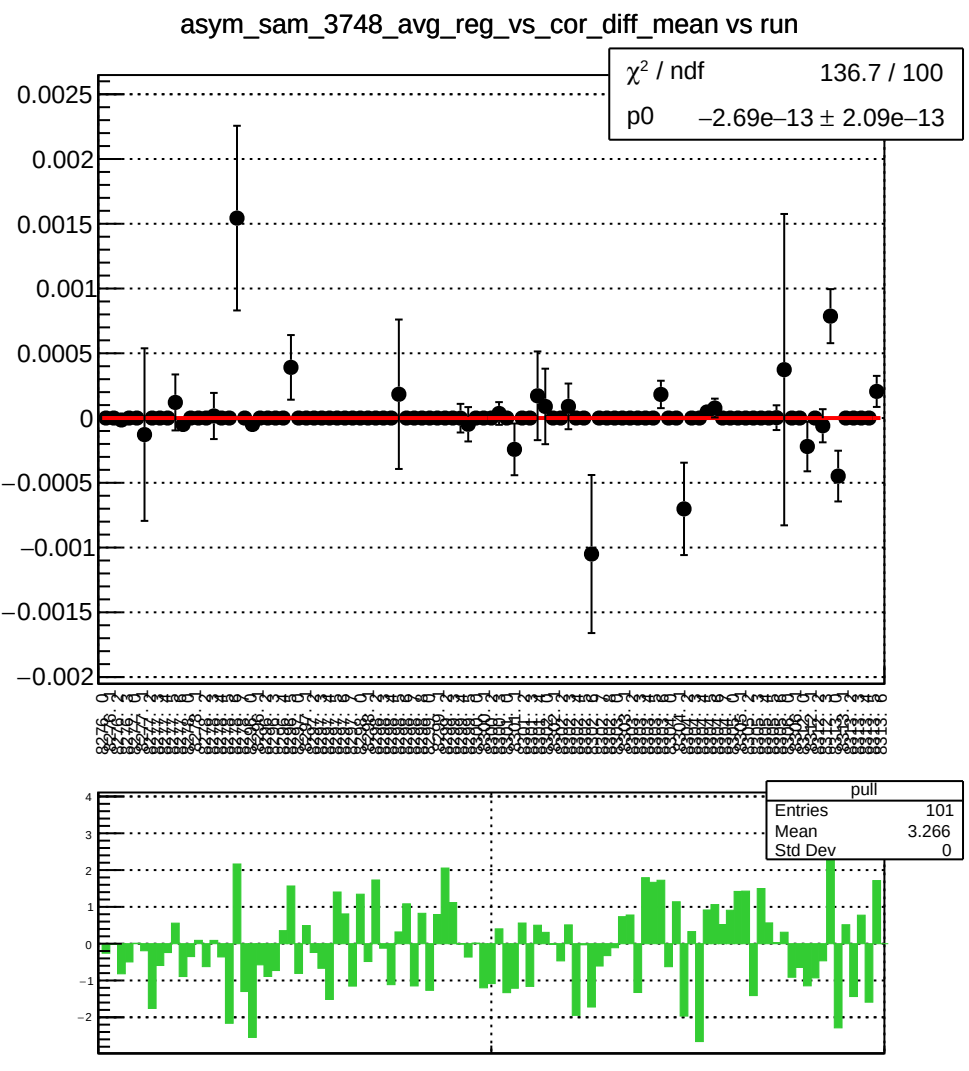

pull1D
Entries 101
Mean 0.00185
Std Dev 0.9813

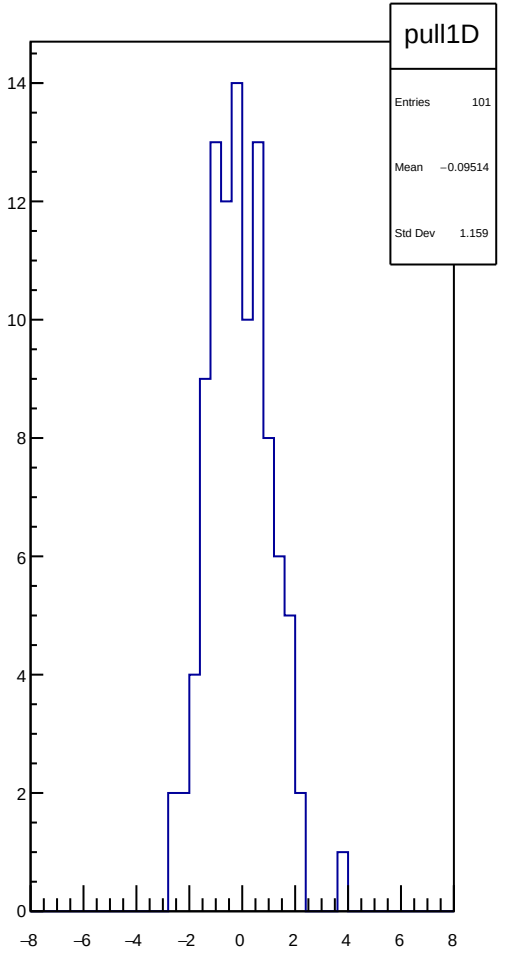

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.193e+04 / 100
p0 2099 ± 1.516
3000
2800
2600
2400
2200
2000
1800

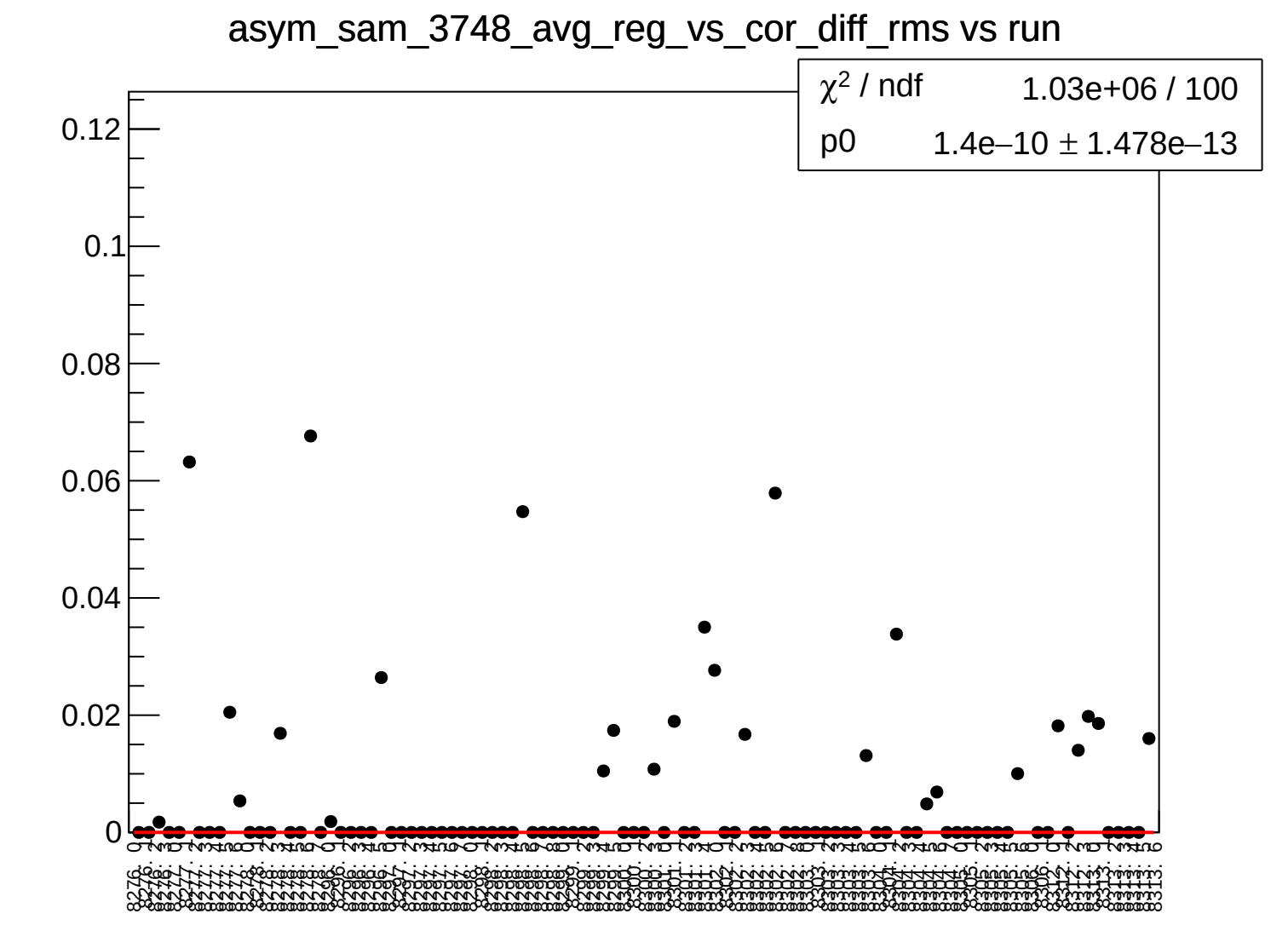

asym_sam_3748_avg_mean vs run
×10^3
χ^2 / ndf 96.46 / 100
p0 1639 ± 2126
pull
Entries 101
Mean −244.5
Std Dev 0

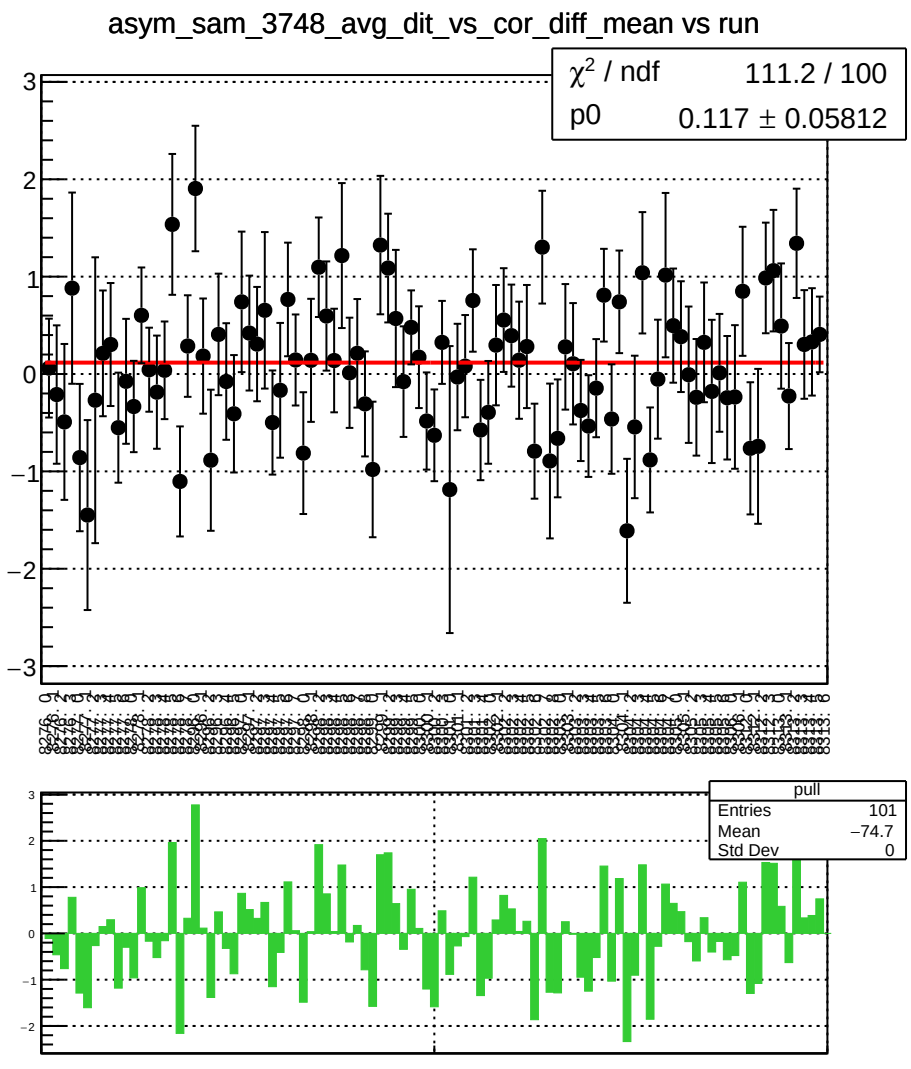

pull1D
Entries 101
Mean 0.0006419
Std Dev 0.9773

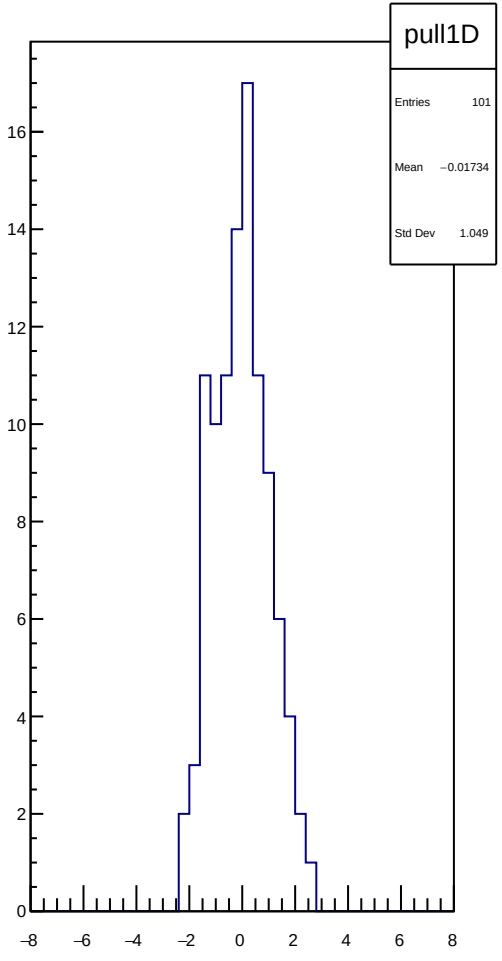

asym_sam_3748_avg_rms vs run
χ² / ndf 1.185e+04 / 100
p0 2081 ± 1.504
2800
2600
2400
2200
2000
1800

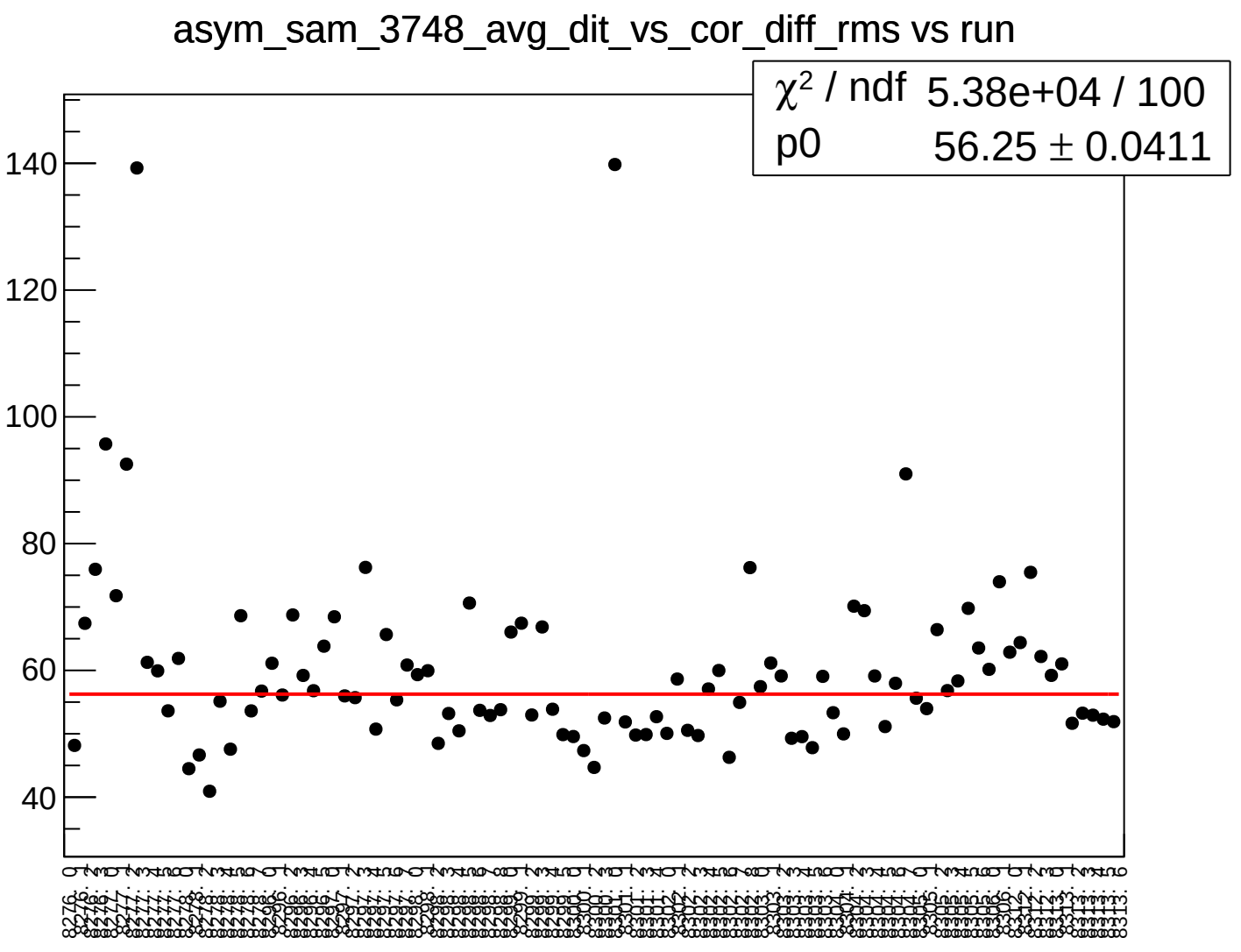

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 136.7 / 100
p0 −2.69e−13 ± 2.09e−13
0.0025
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 101
Mean 3.266
Std Dev 0
4
3
2
1
0
−1
−2

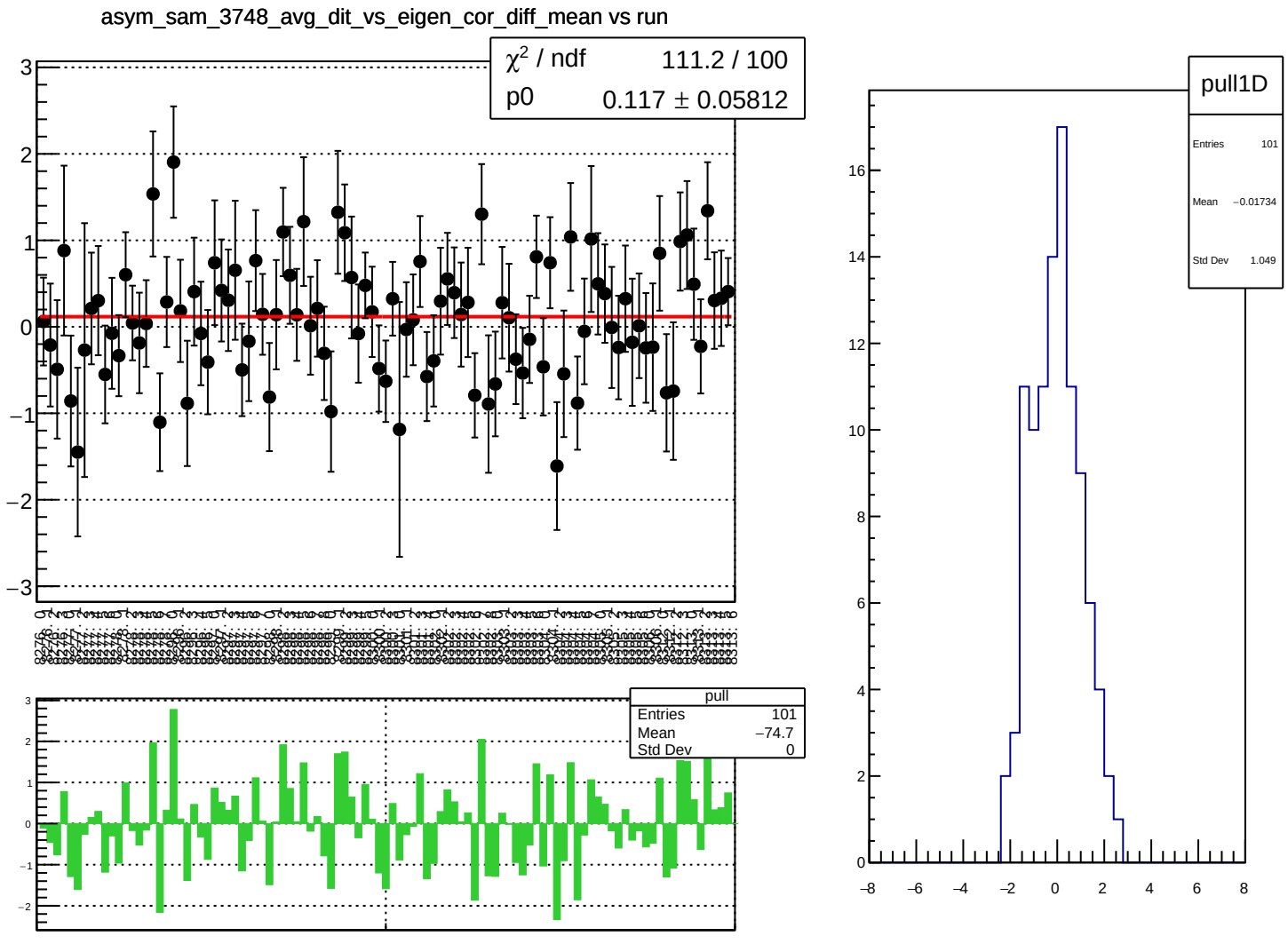

pull1D
Entries 101
Mean −0.09514
Std Dev 1.159
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

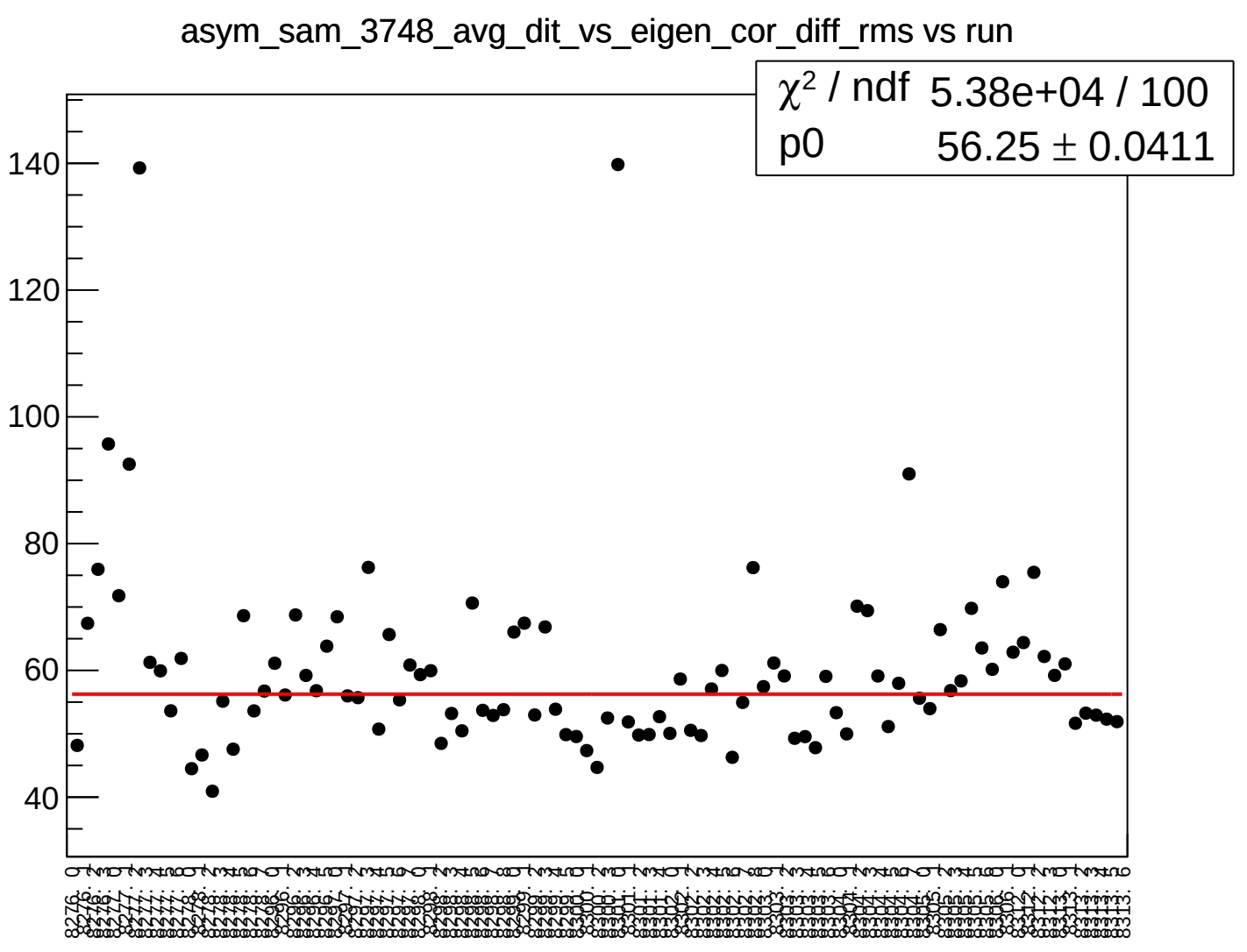

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.03e+06 / 100
p0 1.4e−10 ± 1.478e−13
0.12
0.1
0.08
0.06
0.04
0.02
0

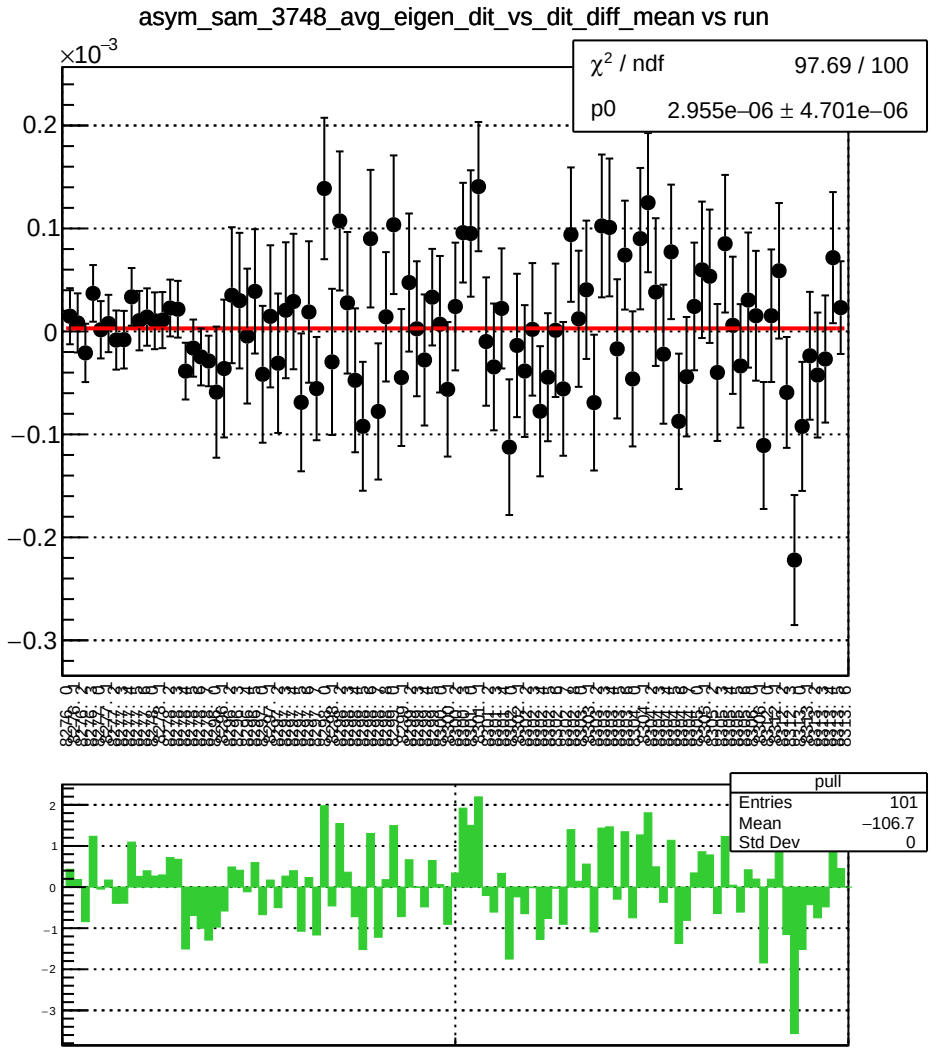

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 111.2 / 100
p0 0.117 ± 0.05812
pull
Entries 101
Mean −74.7
Std Dev 0

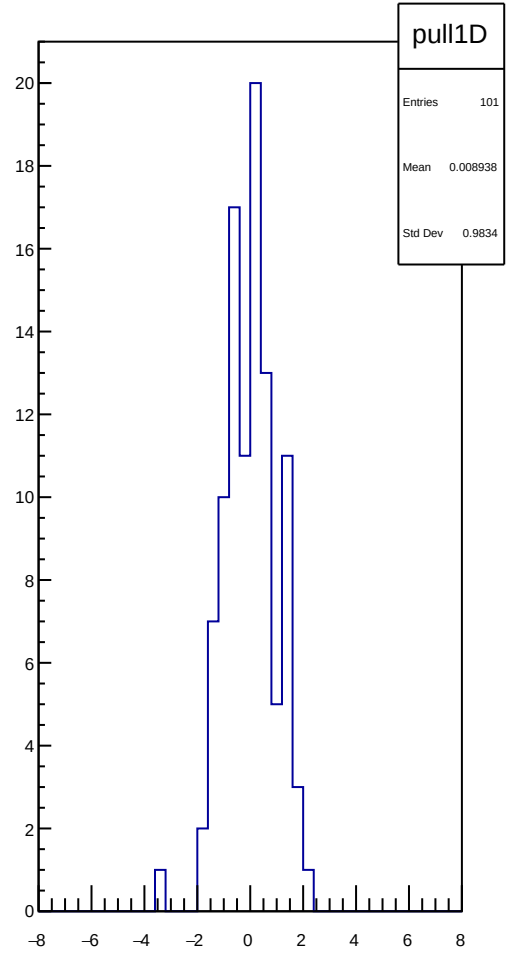

pull1D
Entries 101
Mean −0.01734
Std Dev 1.049

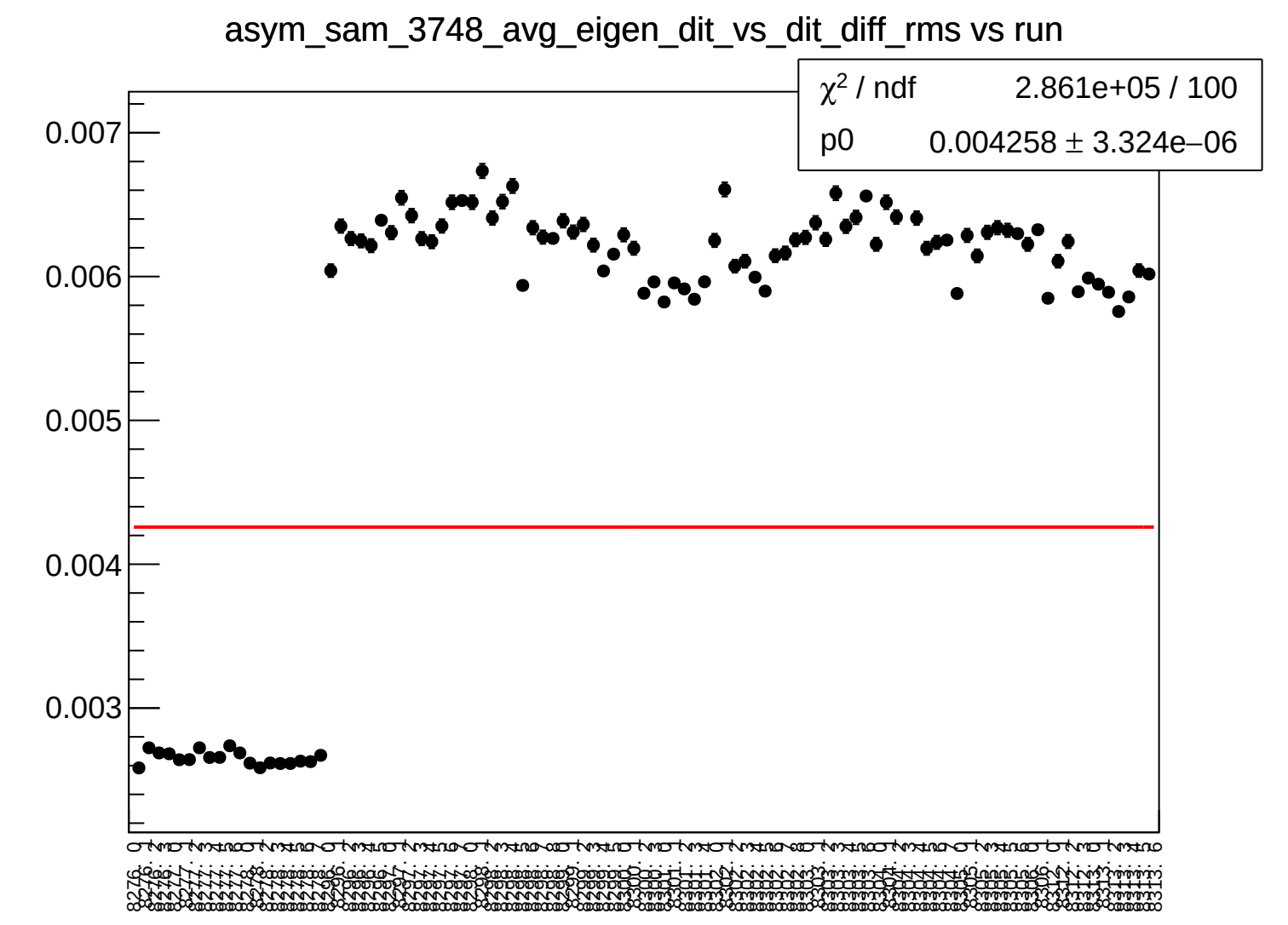

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.38e+04 / 100
p0 56.25 ± 0.0411
140
120
100
80
60
40

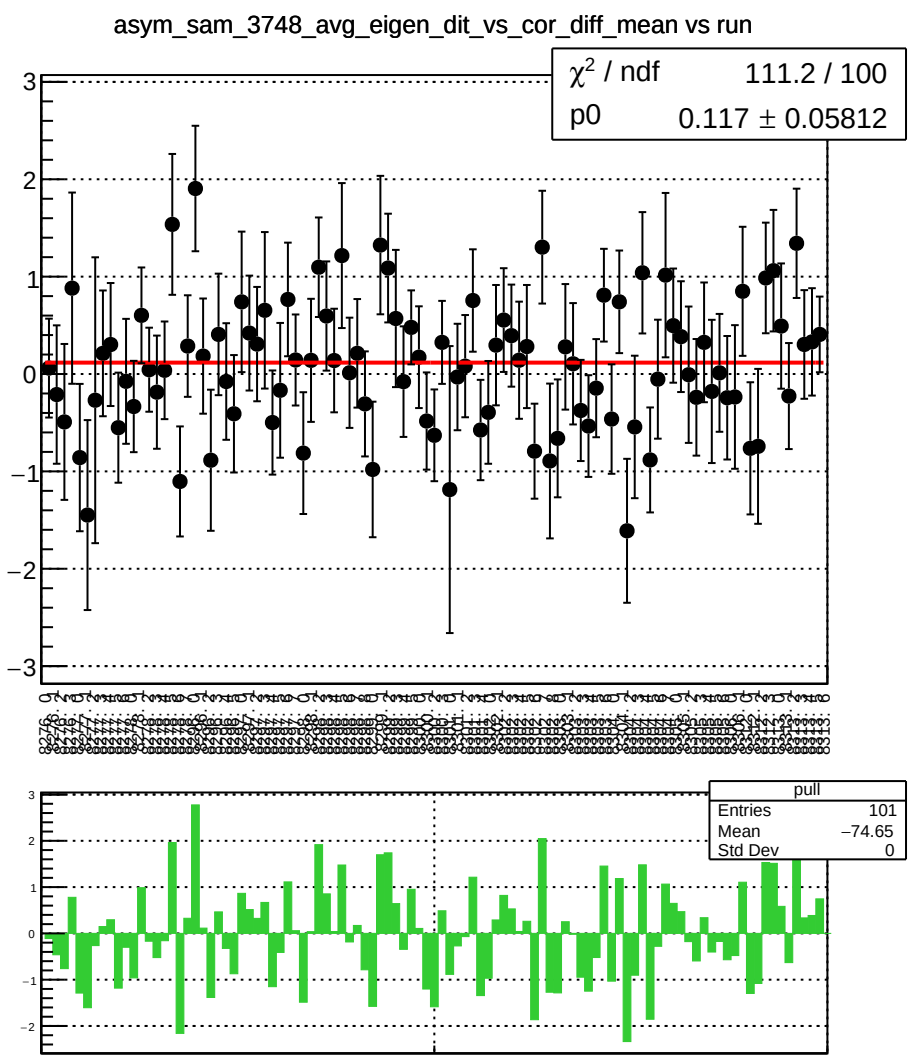

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 111.2 / 100
p0 0.117 ± 0.05812
pull
Entries 101
Mean −74.7
Std Dev 0
pull1D
Entries 101
Mean −0.01734
Std Dev 1.049

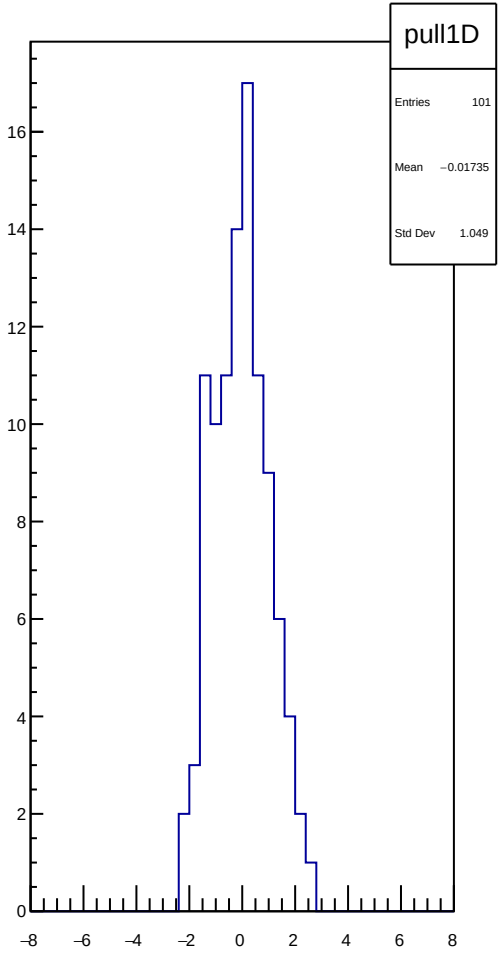

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.38e+04 / 100
p0 56.25 ± 0.0411
140
120
100
80
60
40

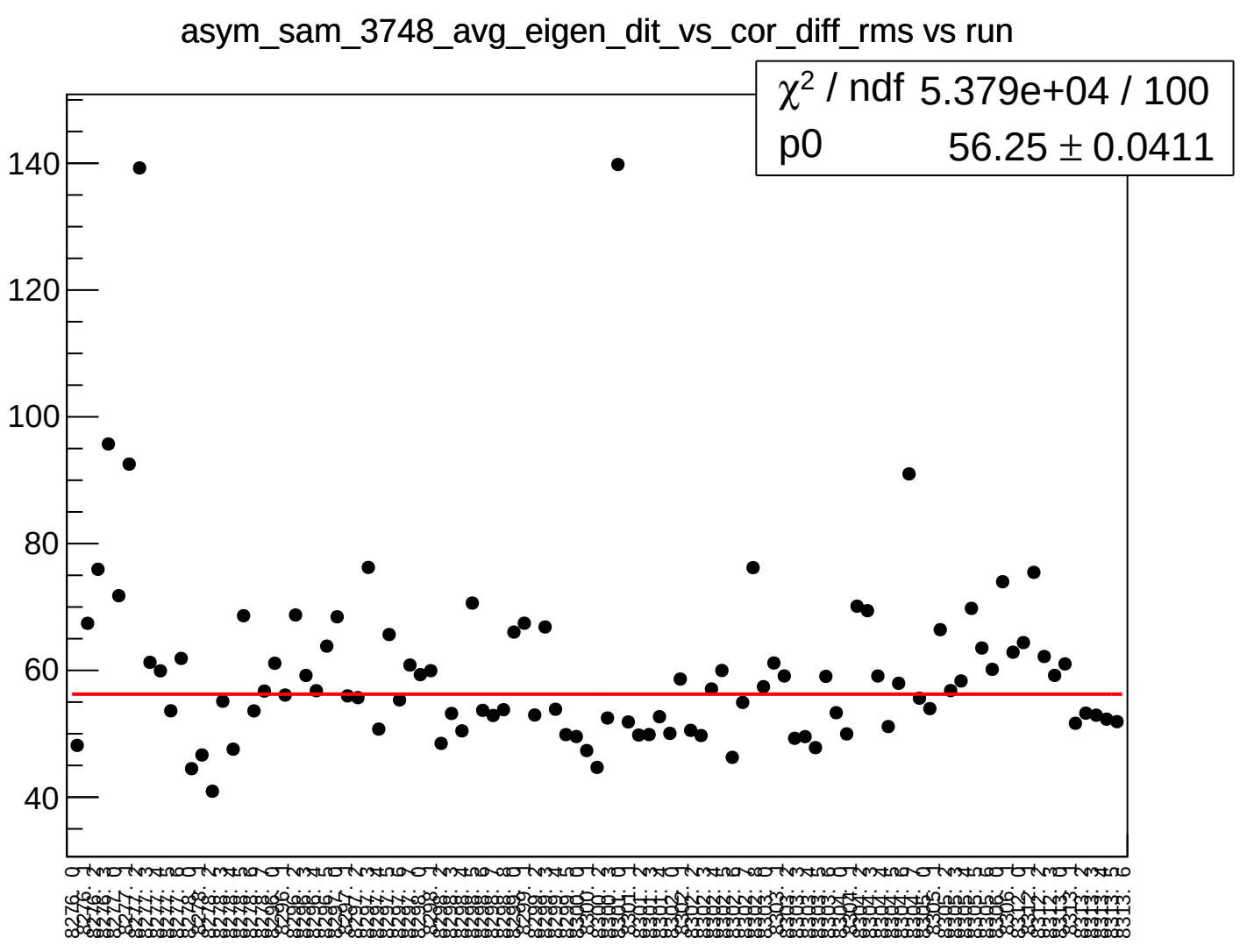

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.69 / 100
p0 2.955e−06 ± 4.701e−06
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 101
Mean −106.7
Std Dev 0
2
1
0
−1
−2
−3

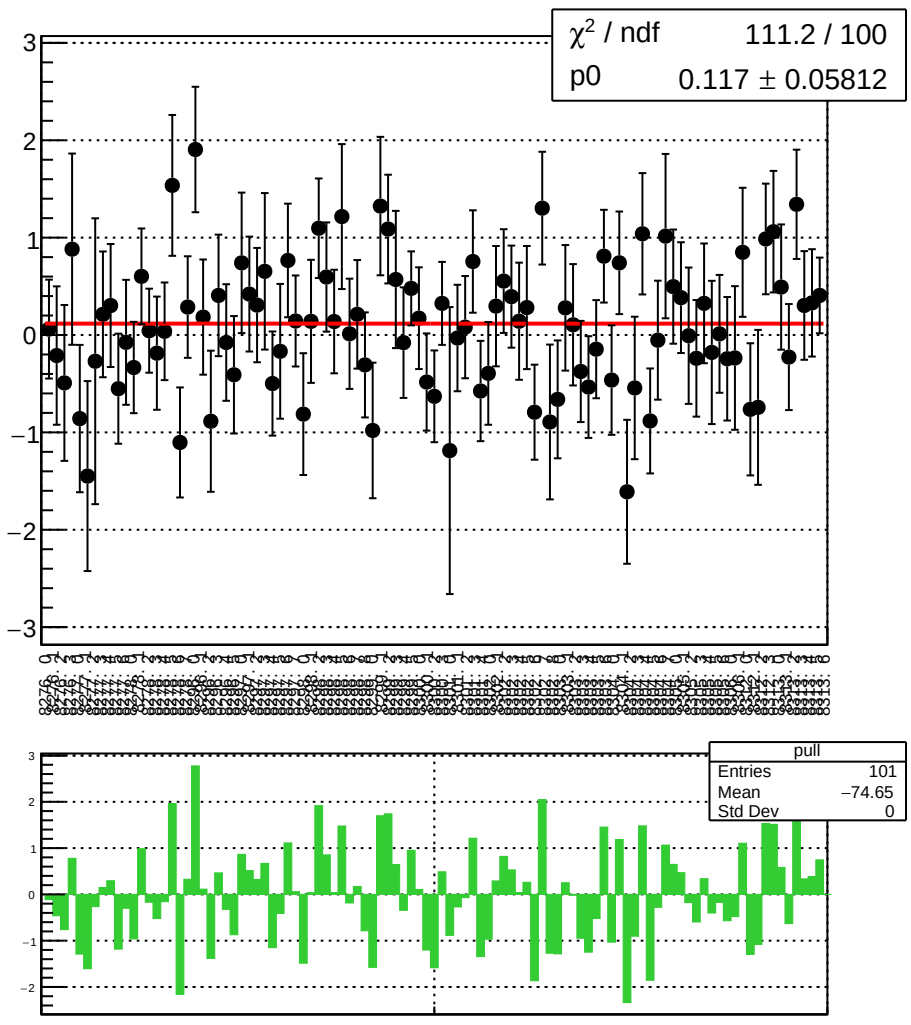

pull1D
Entries 101
Mean 0.008938
Std Dev 0.9834
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

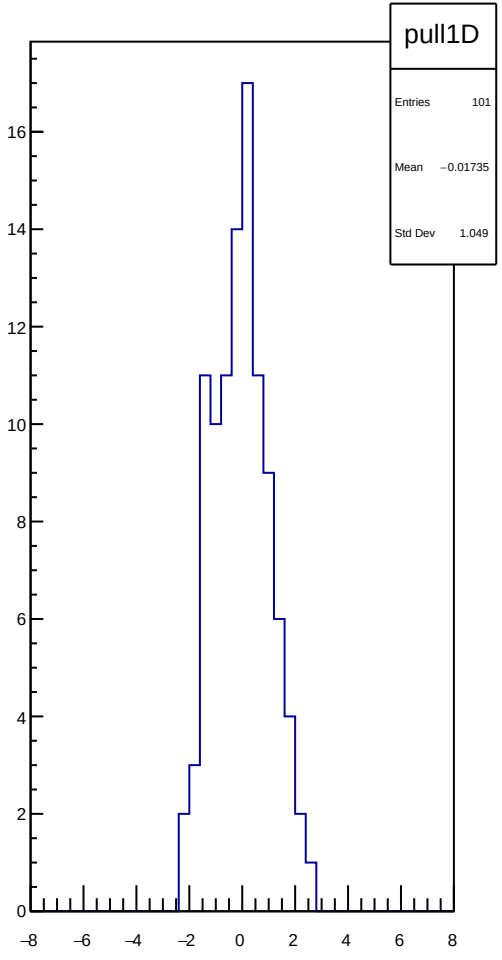

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.861e+05 / 100
p0 0.004258 ± 3.324e−06
0.007
0.006
0.005
0.004
0.003

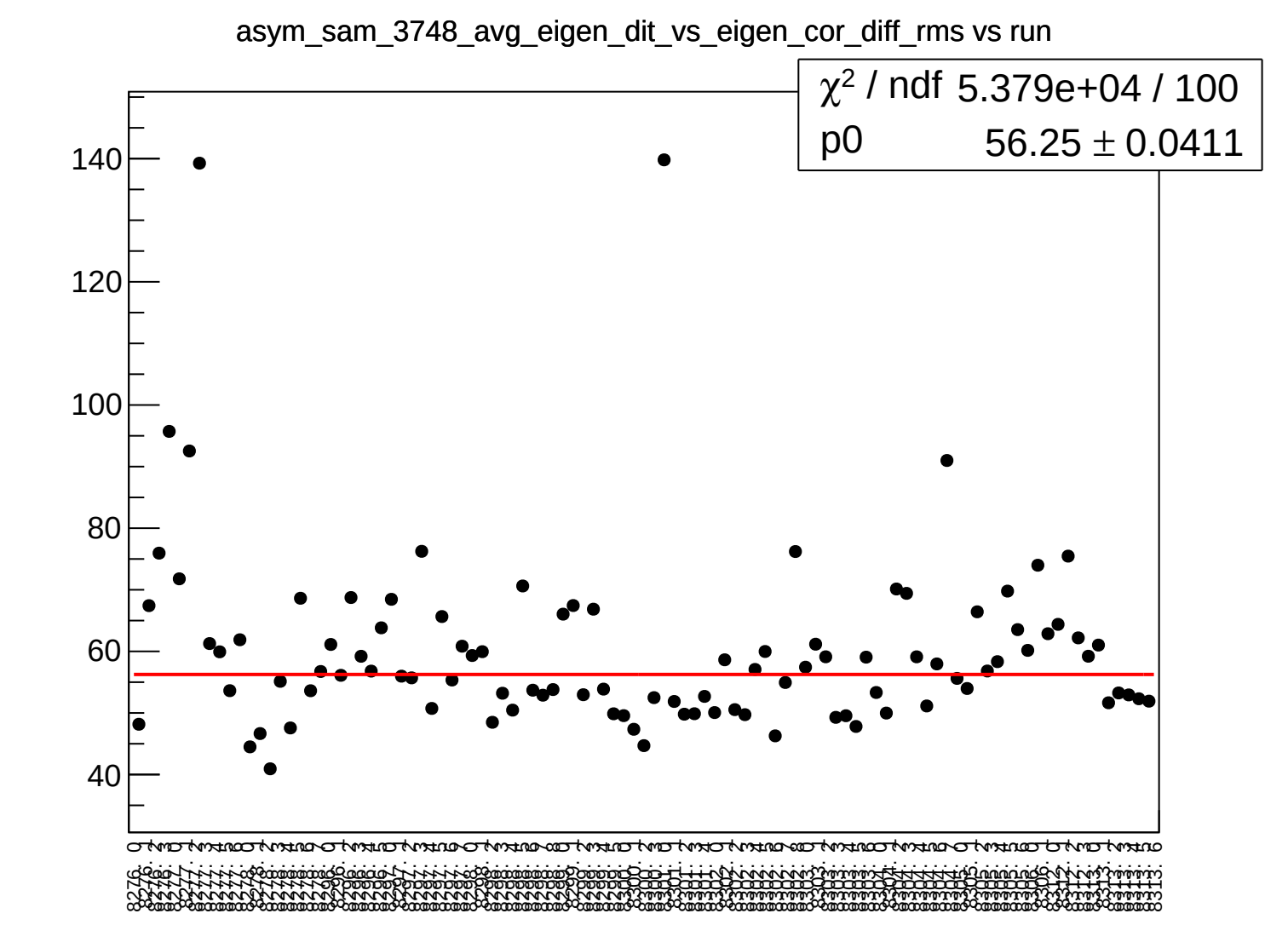

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 111.2 / 100
p0 0.117 ± 0.05812
pull
Entries 101
Mean −74.65
Std Dev 0

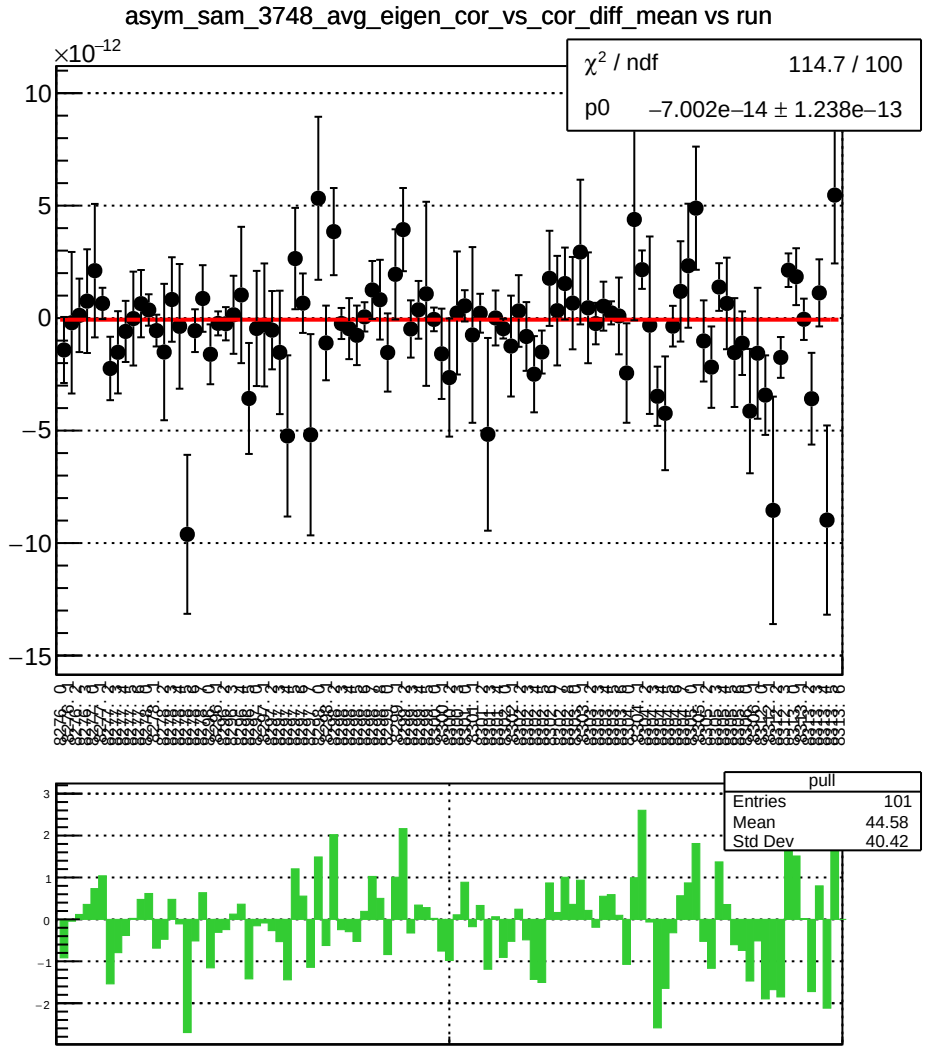

pull1D
Entries 101
Mean −0.01735
Std Dev 1.049

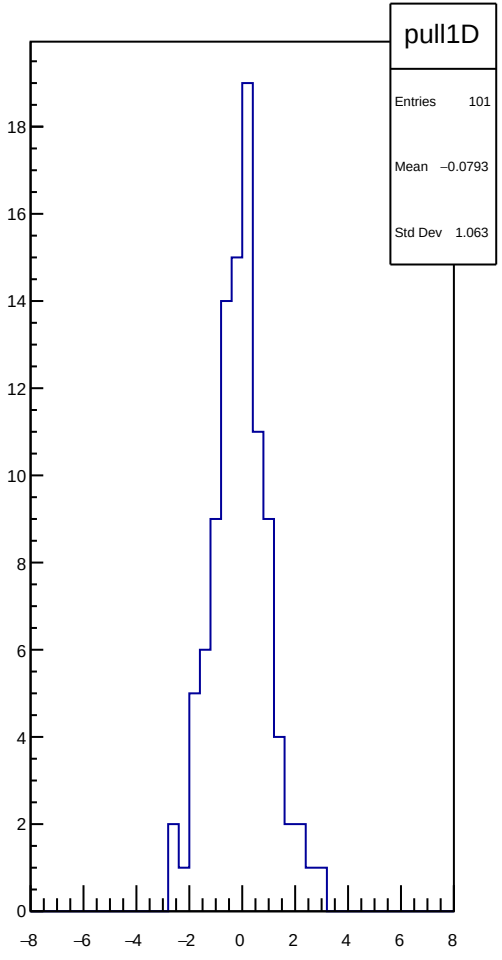

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.379e+04 / 100
p0 56.25 ± 0.0411
140
120
100
80
60
40

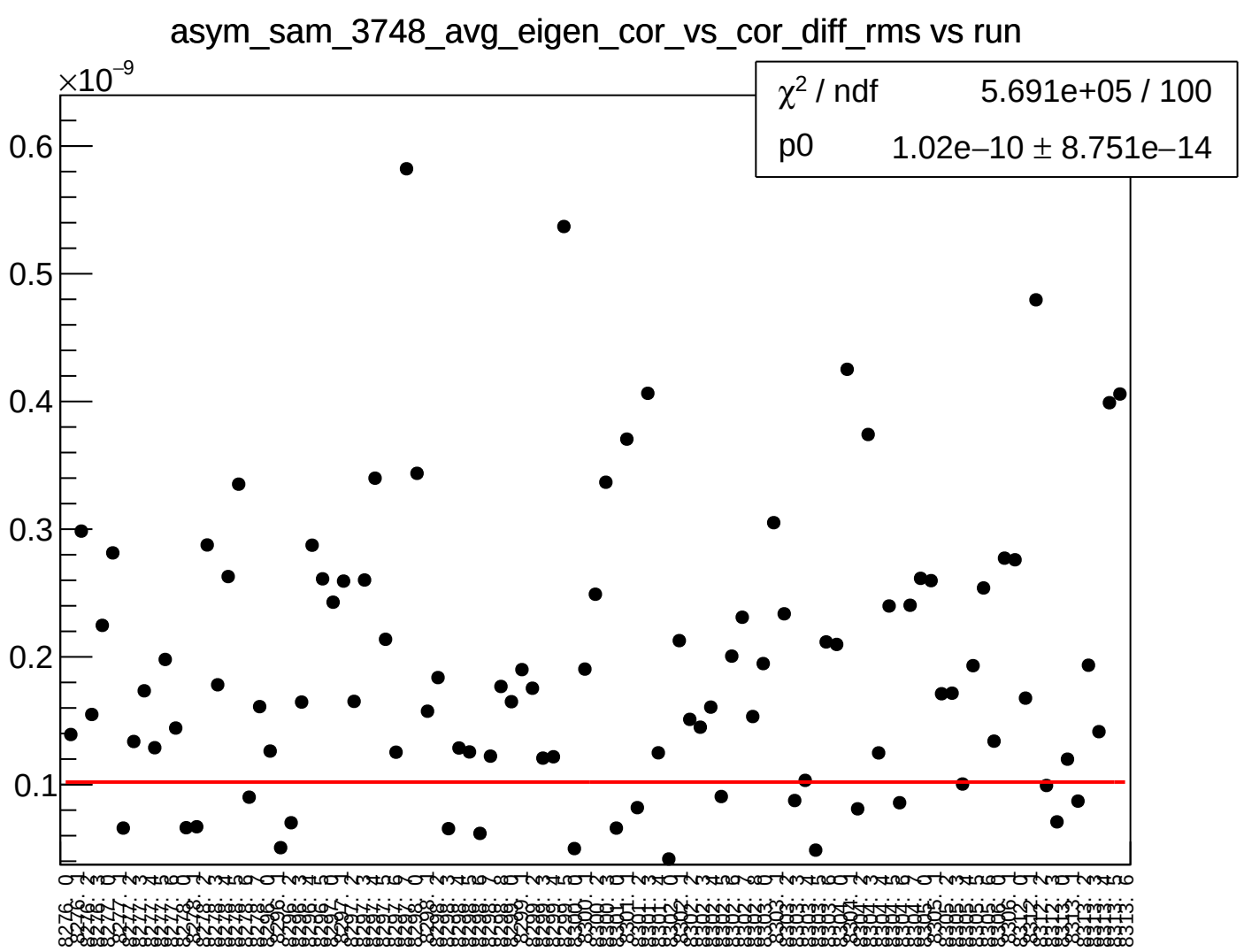

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 111.2 / 100
p0 0.117 ± 0.05812
pull
Entries 101
Mean −74.65
Std Dev 0

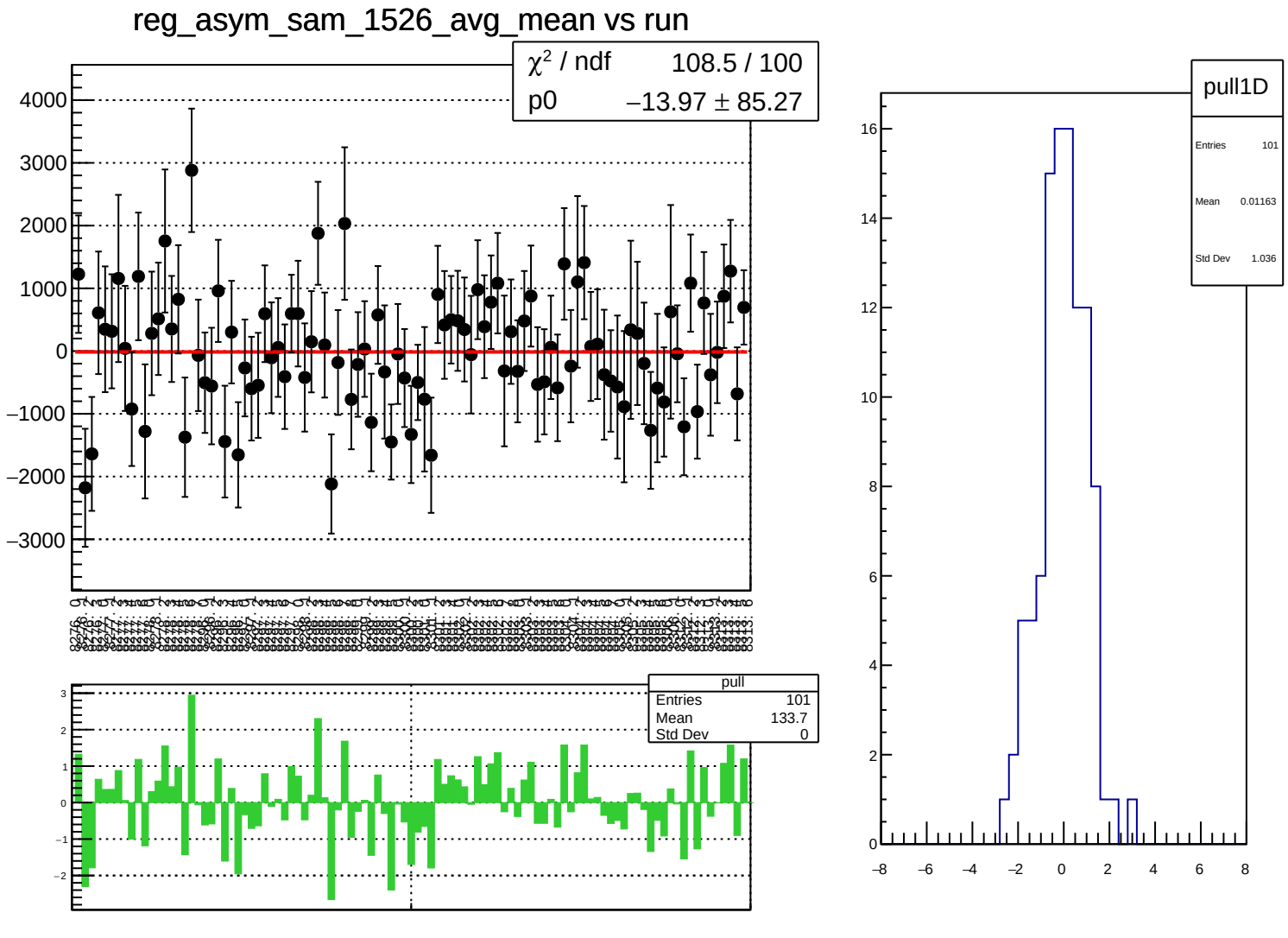

pull1D
Entries 101
Mean −0.01735
Std Dev 1.049

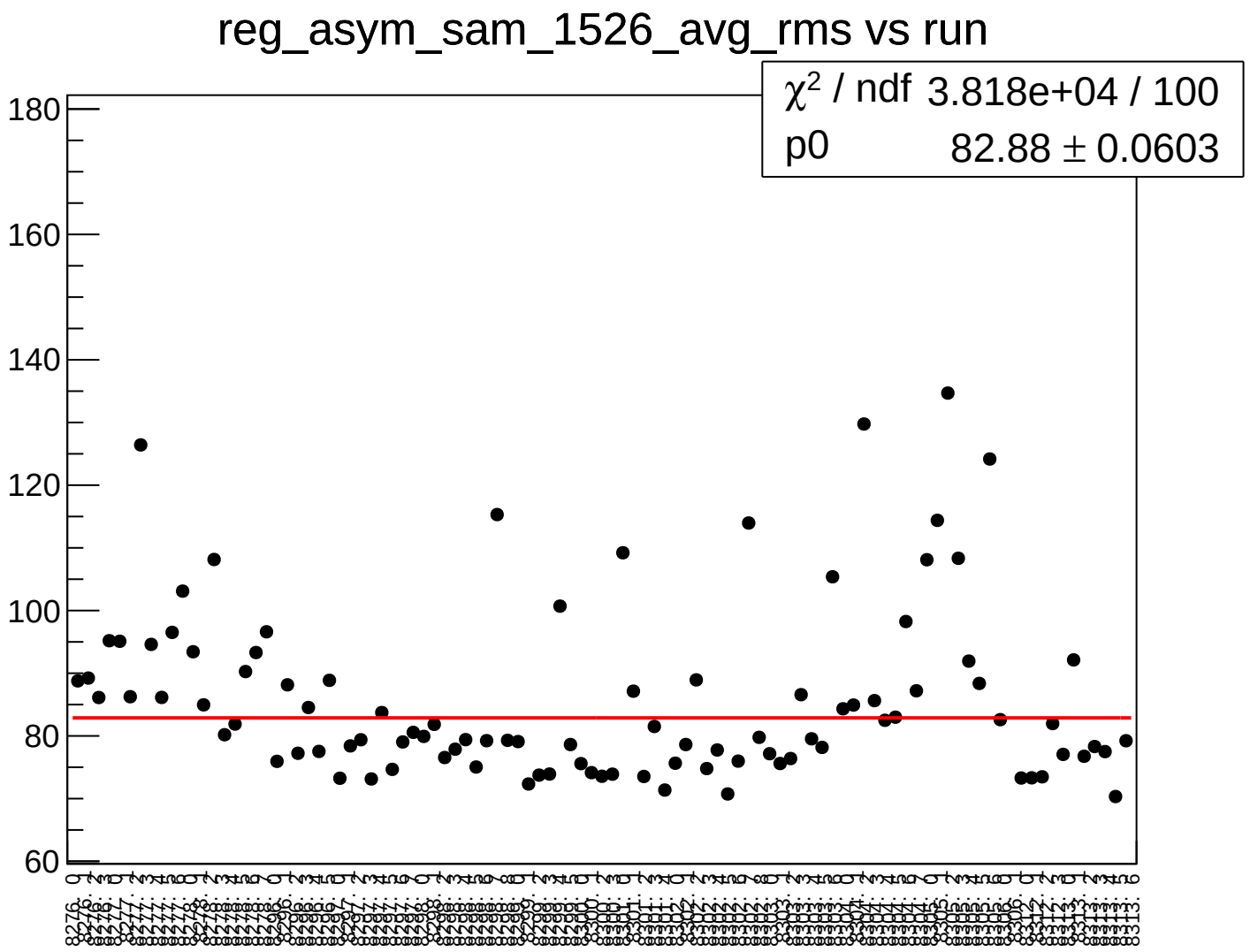

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.379e+04 / 100
p0 56.25 ± 0.0411
140
120
100
80
60
40

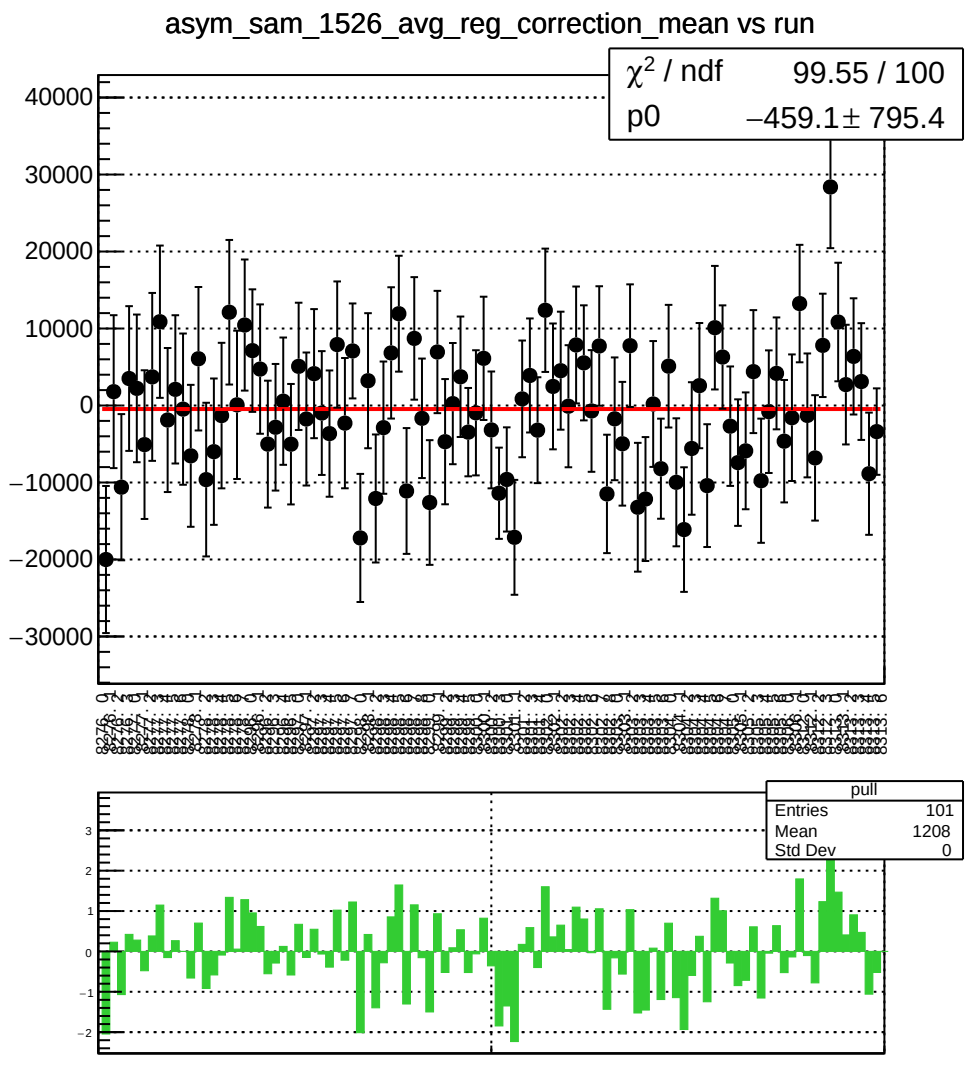

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 114.7 / 100
p0 −7.002e−14 ± 1.238e−13
pull
Entries 101
Mean 44.58
Std Dev 40.42

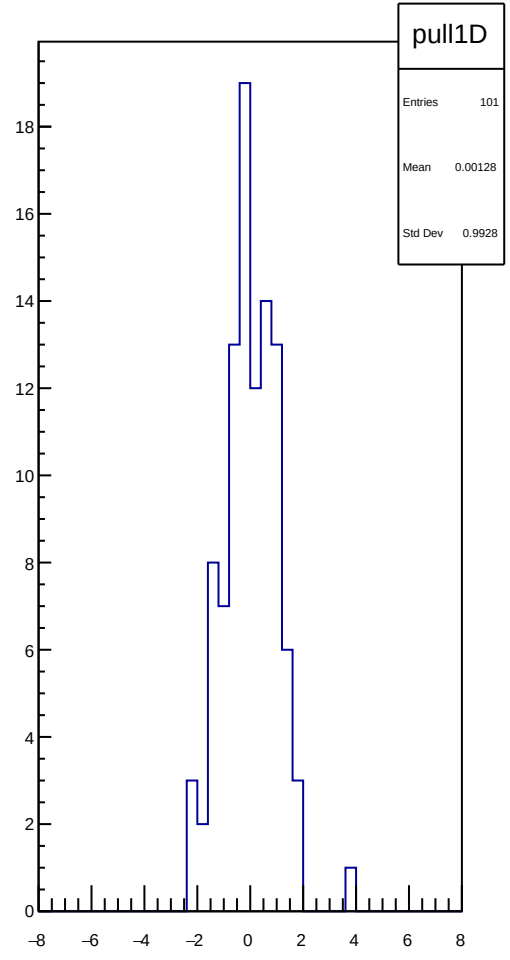

pull1D
Entries 101
Mean −0.0793
Std Dev 1.063

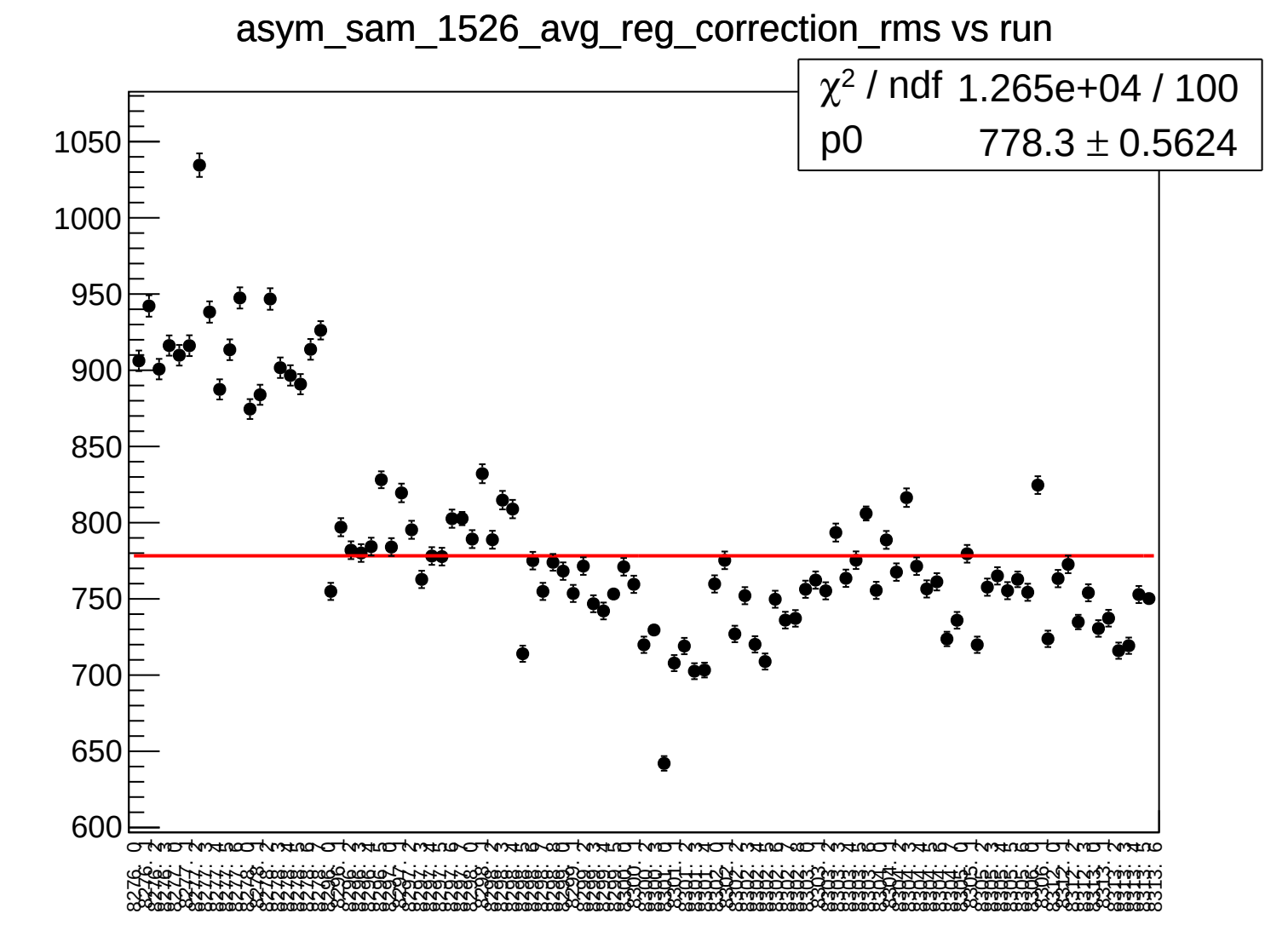

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.691e+05 / 100
p0 1.02e−10 ± 8.751e−14
0.6
0.5
0.4
0.3
0.2
0.1

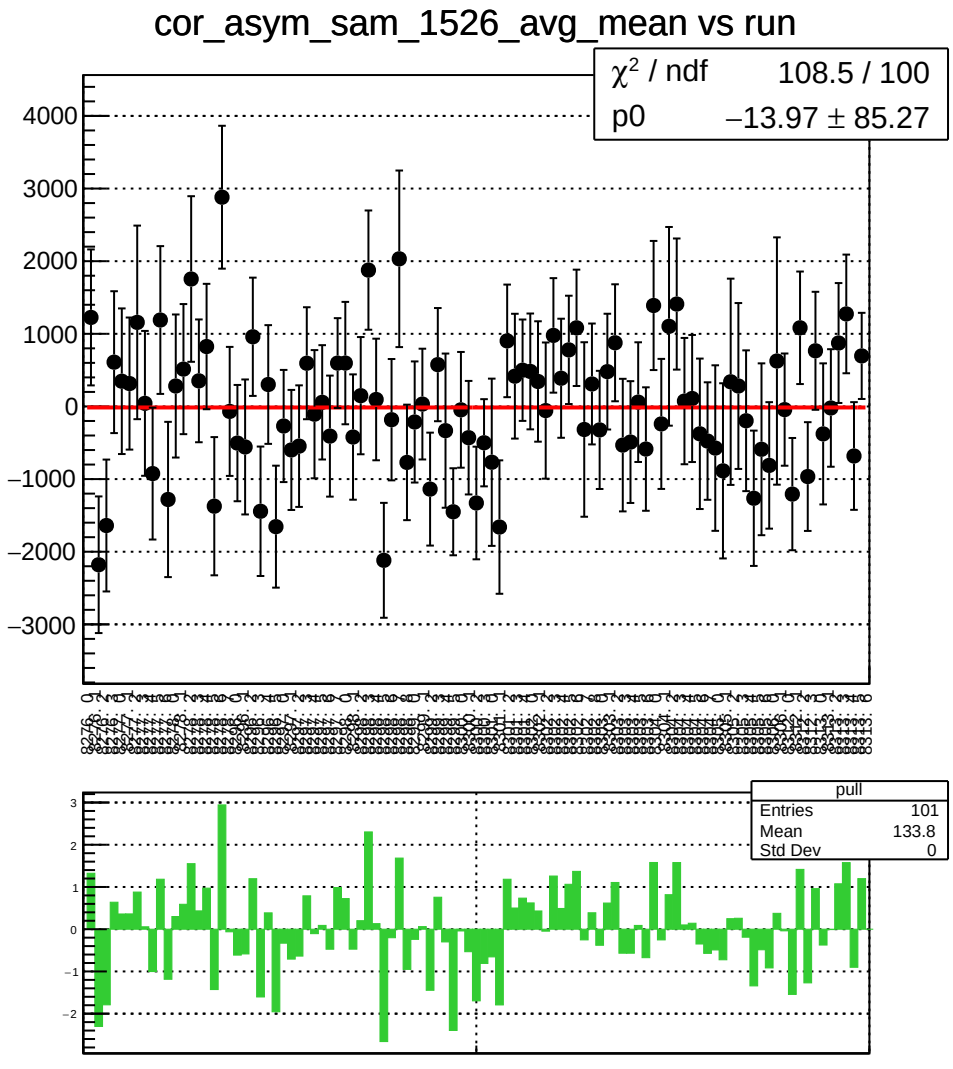

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 108.5 / 100
p0 −13.97 ± 85.27
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 101
Mean 133.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.01163
Std Dev 1.036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

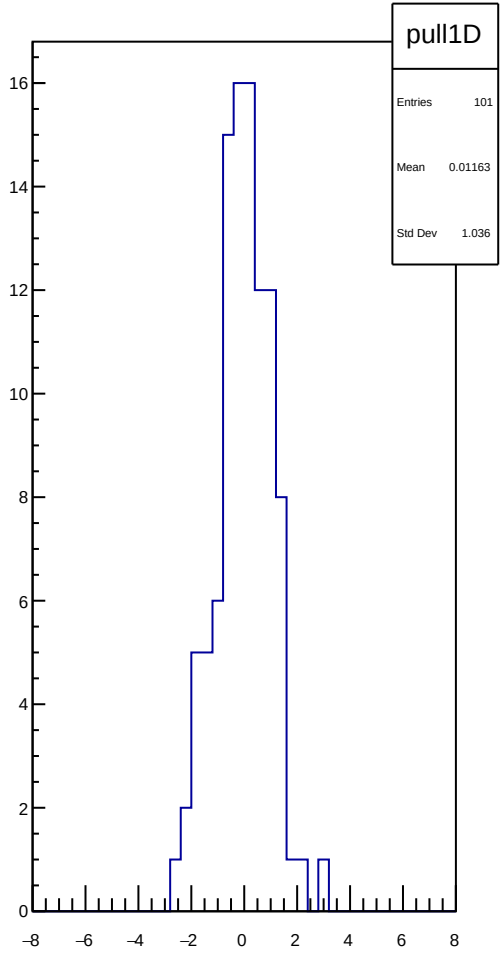

reg_asym_sam_1526_avg_rms vs run
χ² / ndf 3.818e+04 / 100
p0 82.88 ± 0.0603
180
160
140
120
100
80
60

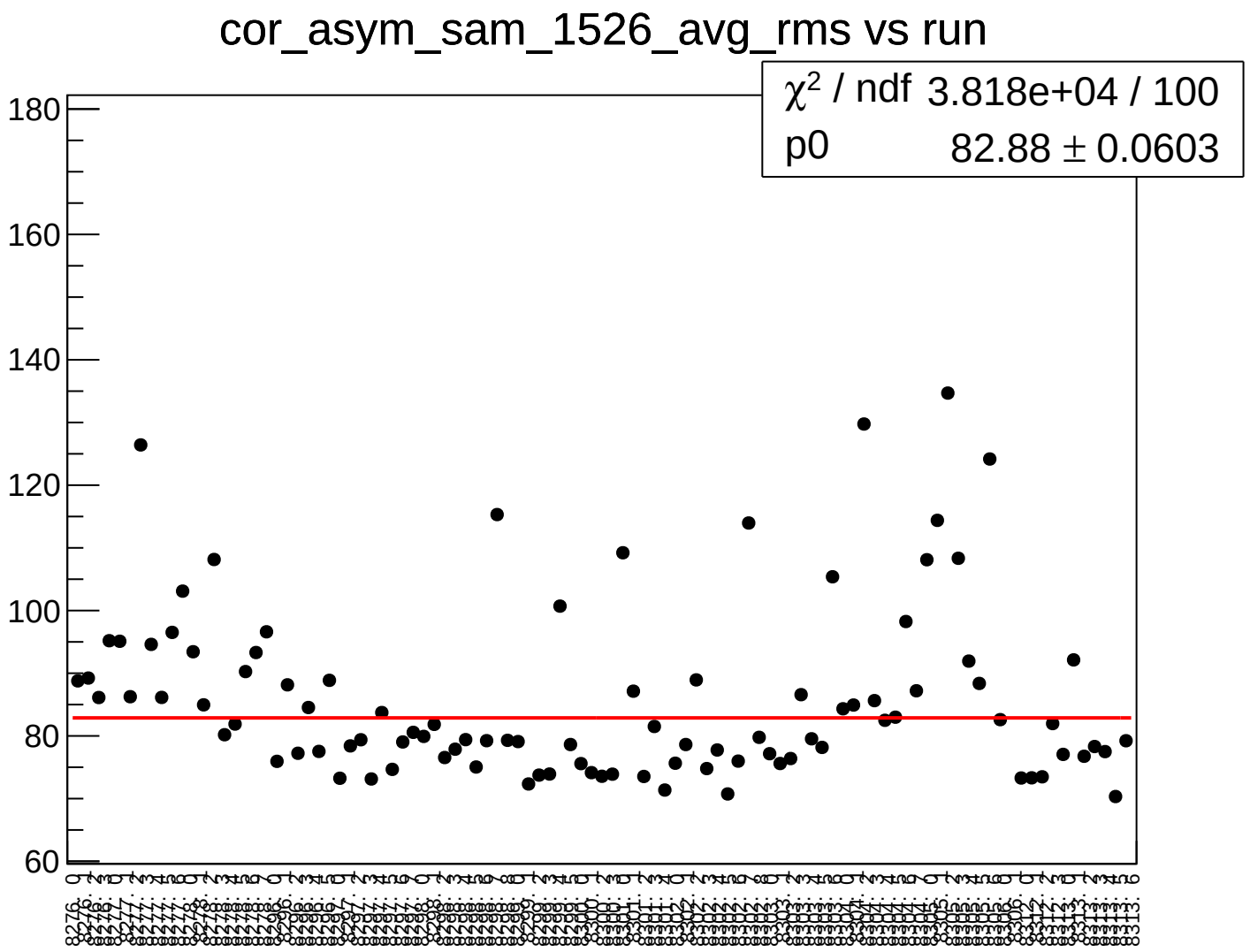

asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 99.55 / 100
p0 −459.1± 795.4
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 101
Mean 1208
Std Dev 0
3
2
1
0
−1
−2

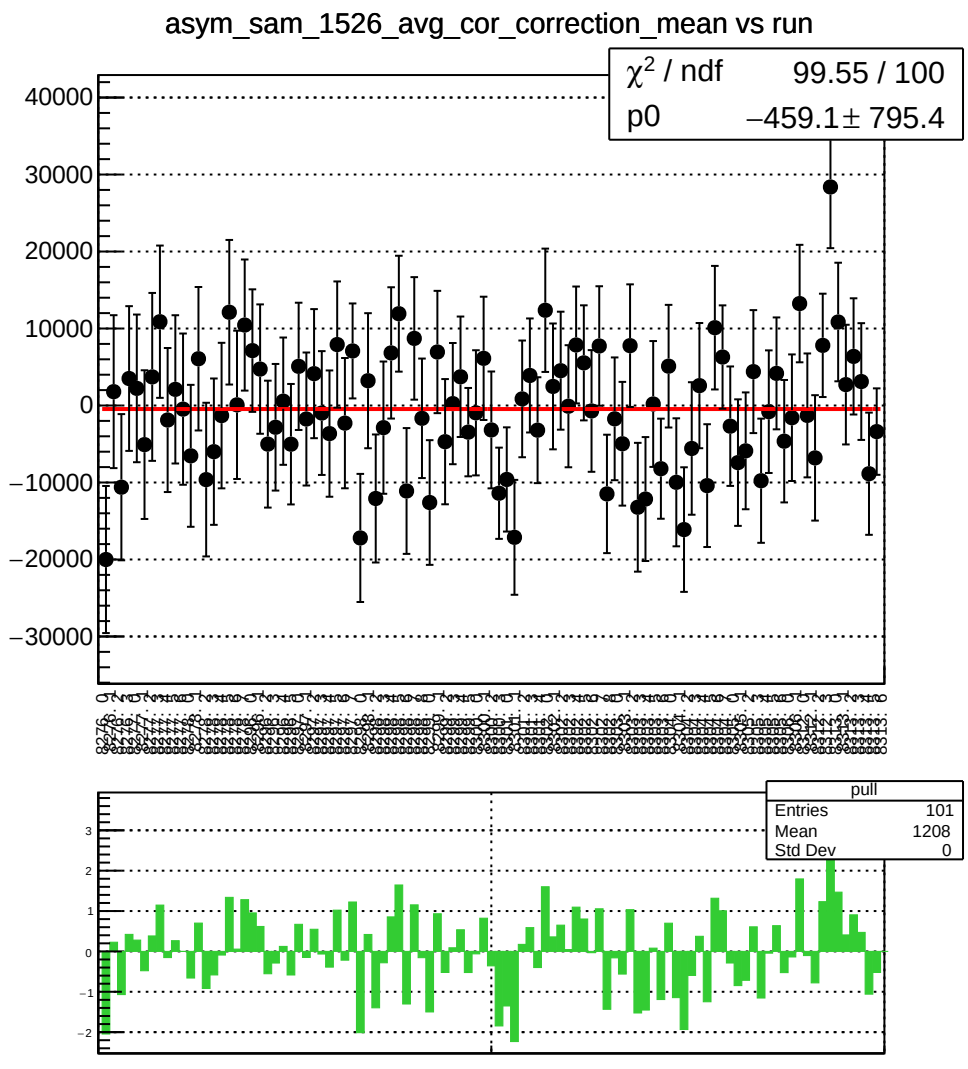

pull1D
Entries 101
Mean 0.00128
Std Dev 0.9928
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

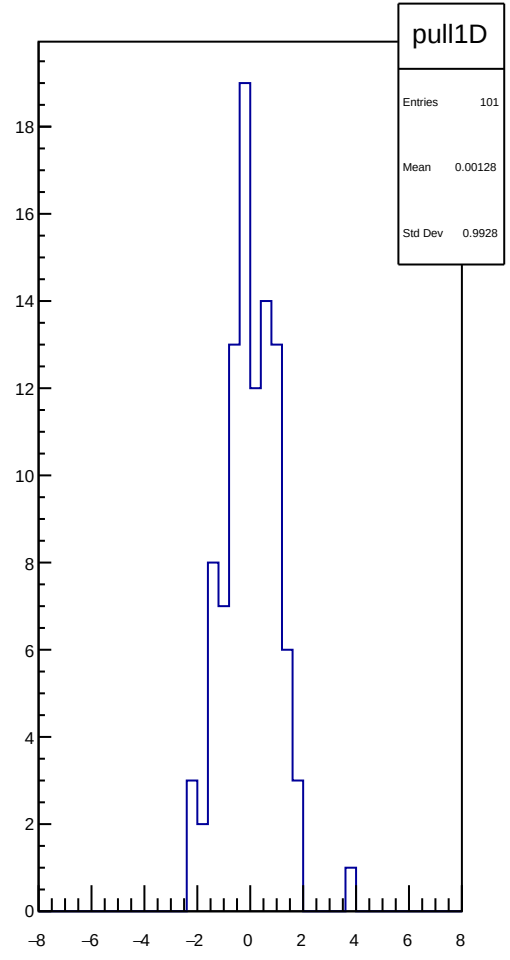

asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 1.265e+04 / 100
p0 778.3 ± 0.5624
1050
1000
950
900
850
800
750
700
650
600

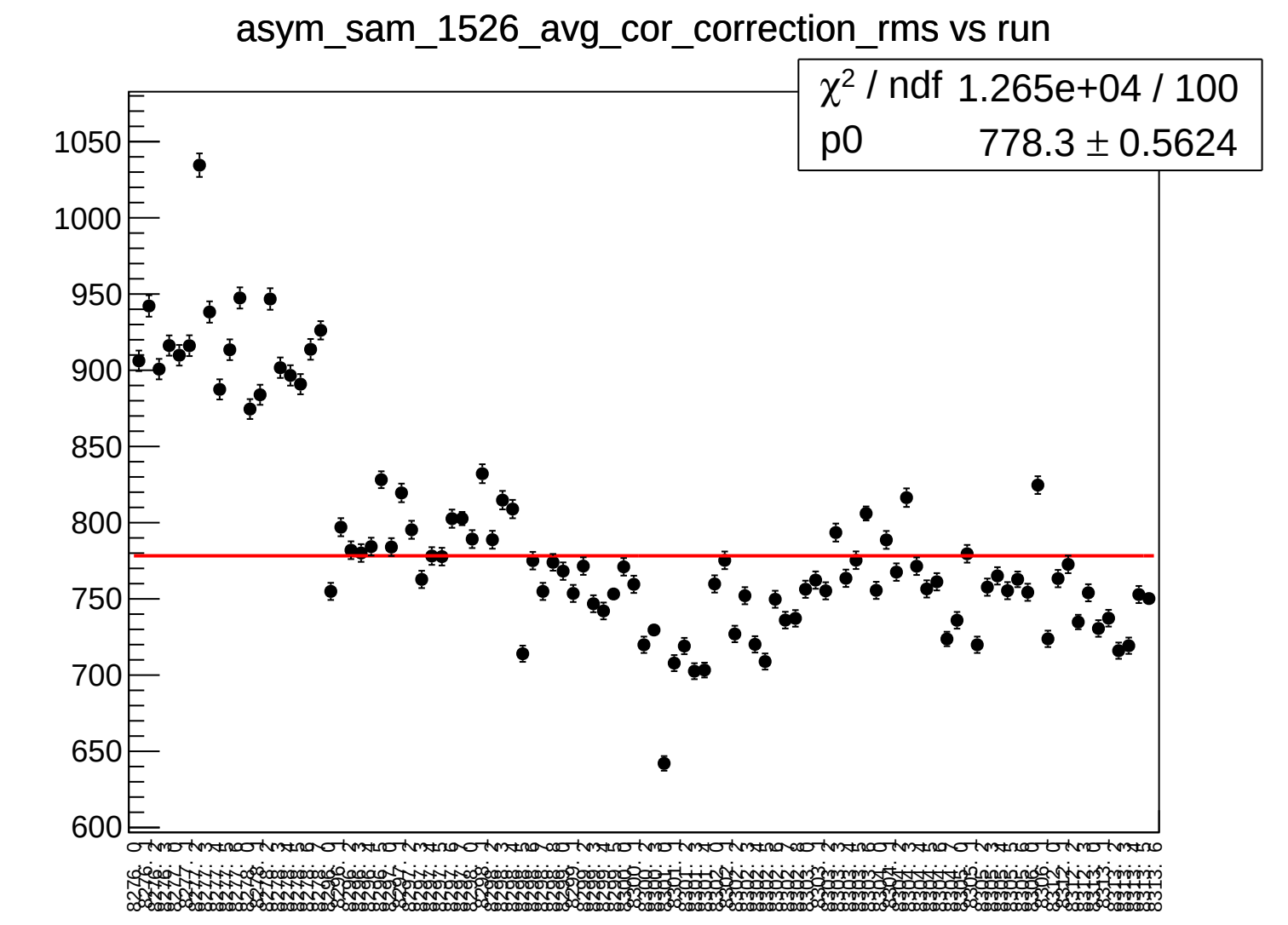

cor_asym_sam_1526_avg_mean vs run
χ² / ndf 108.5 / 100
p0 −13.97 ± 85.27
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 101
Mean 133.8
Std Dev 0
3
2
1
0
−1
−2

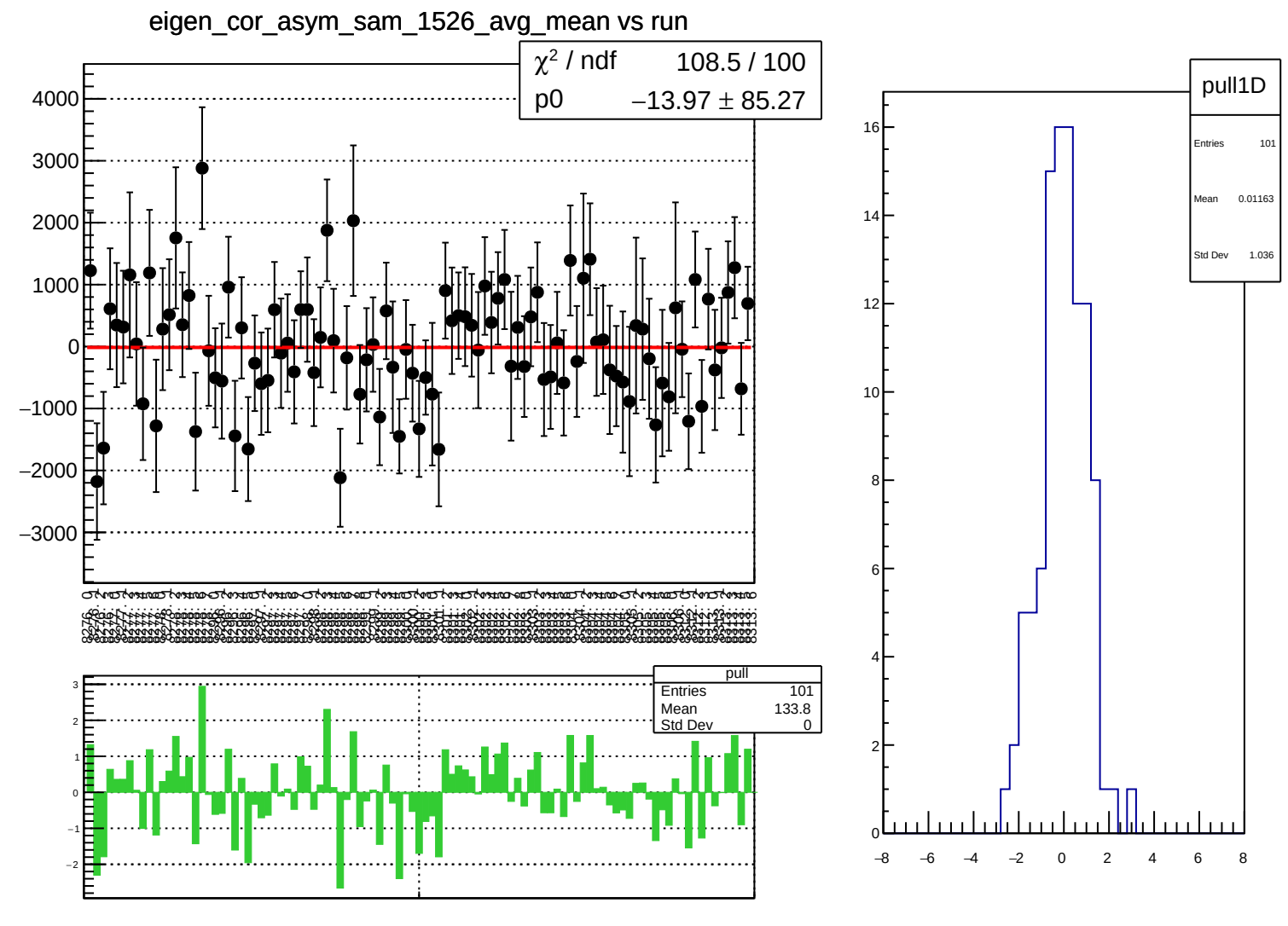

pull1D
Entries 101
Mean 0.01163
Std Dev 1.036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

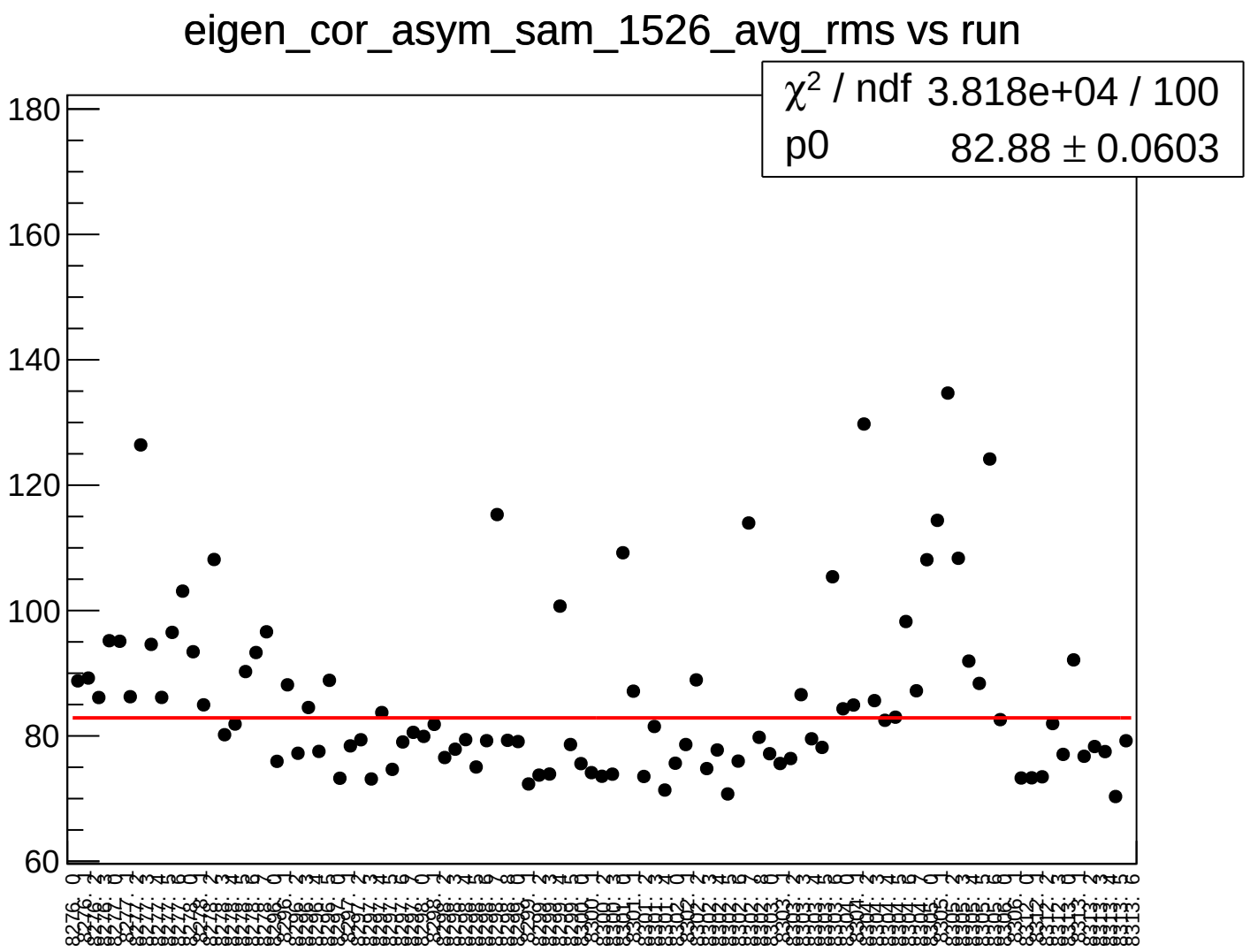

cor_asym_sam_1526_avg_rms vs run
χ² / ndf 3.818e+04 / 100
p0 82.88 ± 0.0603
180
160
140
120
100
80
60

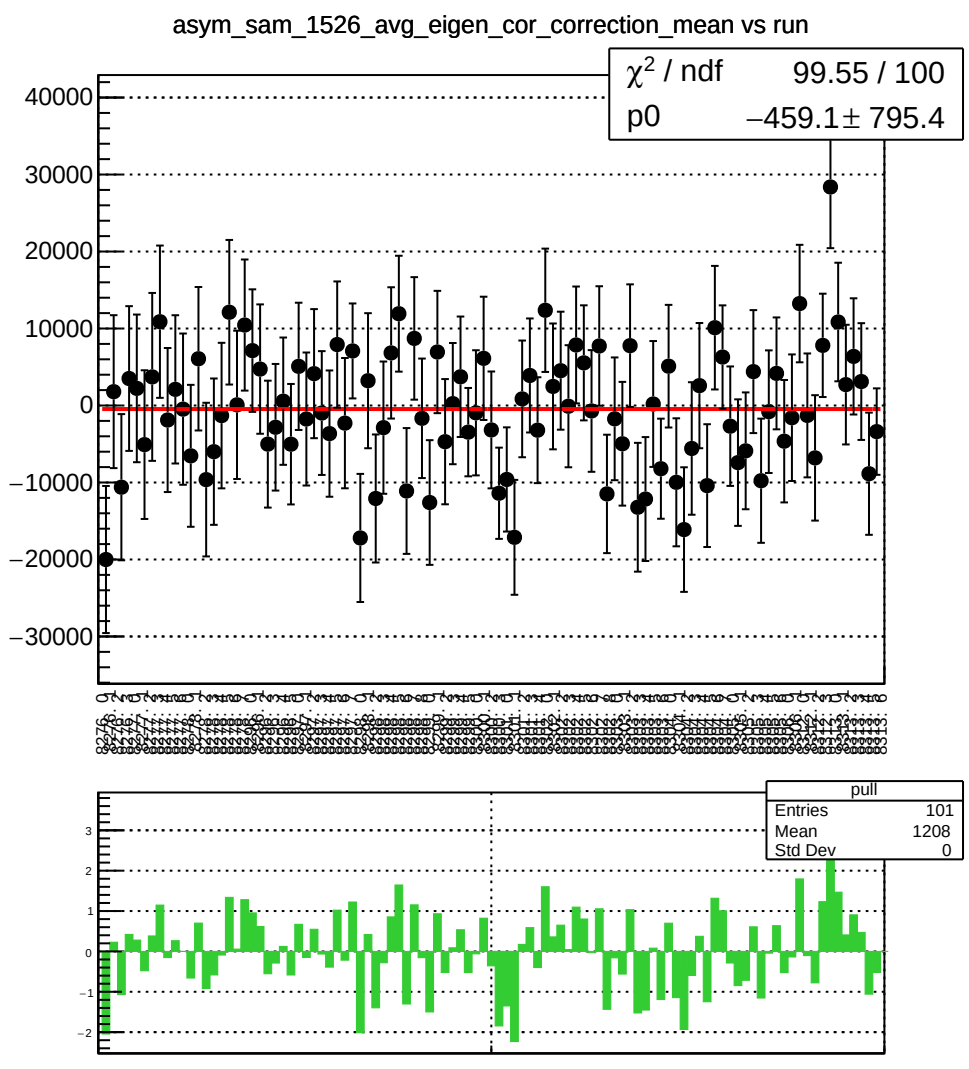

asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 99.55 / 100
p0 −459.1± 795.4
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 101
Mean 1208
Std Dev 0
3
2
1
0
−1
−2

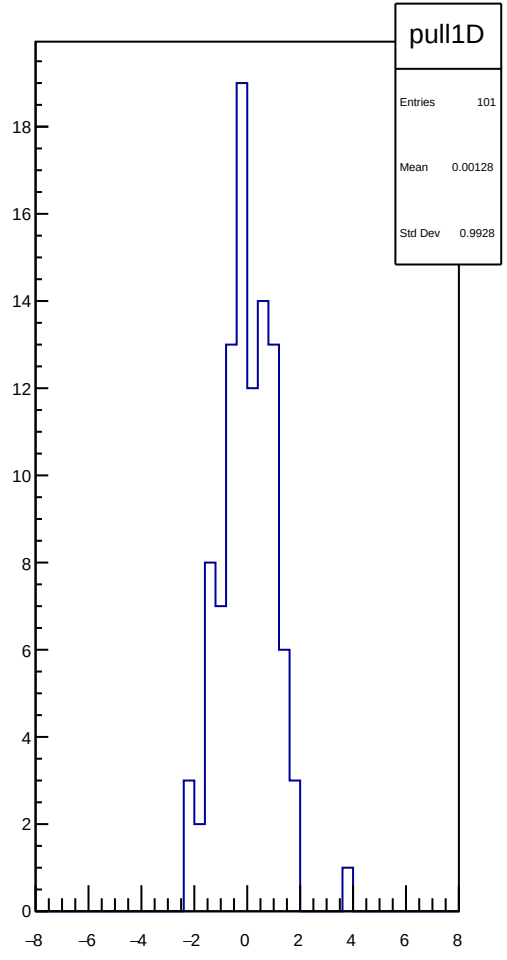

pull1D
Entries 101
Mean 0.00128
Std Dev 0.9928
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 1.265e+04 / 100
p0 778.3 ± 0.5624
1050
1000
950
900
850
800
750
700
650
600


eigen_cor_asym_sam_1526_avg_mean vs run
χ² / ndf 108.5 / 100
p0 −13.97 ± 85.27
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 101
Mean 133.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.01163
Std Dev 1.036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_1526_avg_rms vs run
χ² / ndf 3.818e+04 / 100
p0 82.88 ± 0.0603
180
160
140
120
100
80
60


asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 99.55 / 100
p0 −459.1± 795.4
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 101
Mean 1208
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 101
Mean 0.00128
Std Dev 0.9928
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
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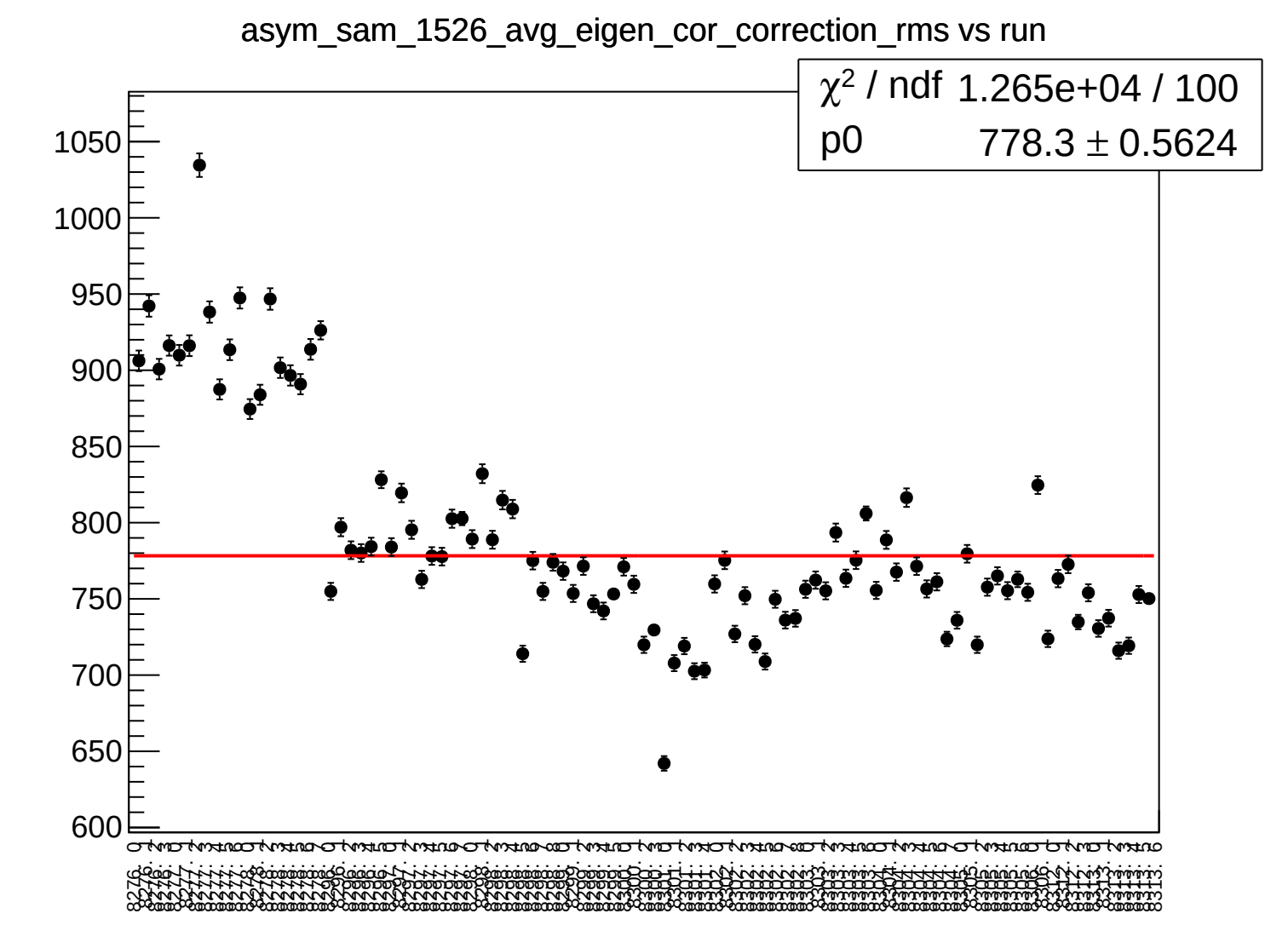
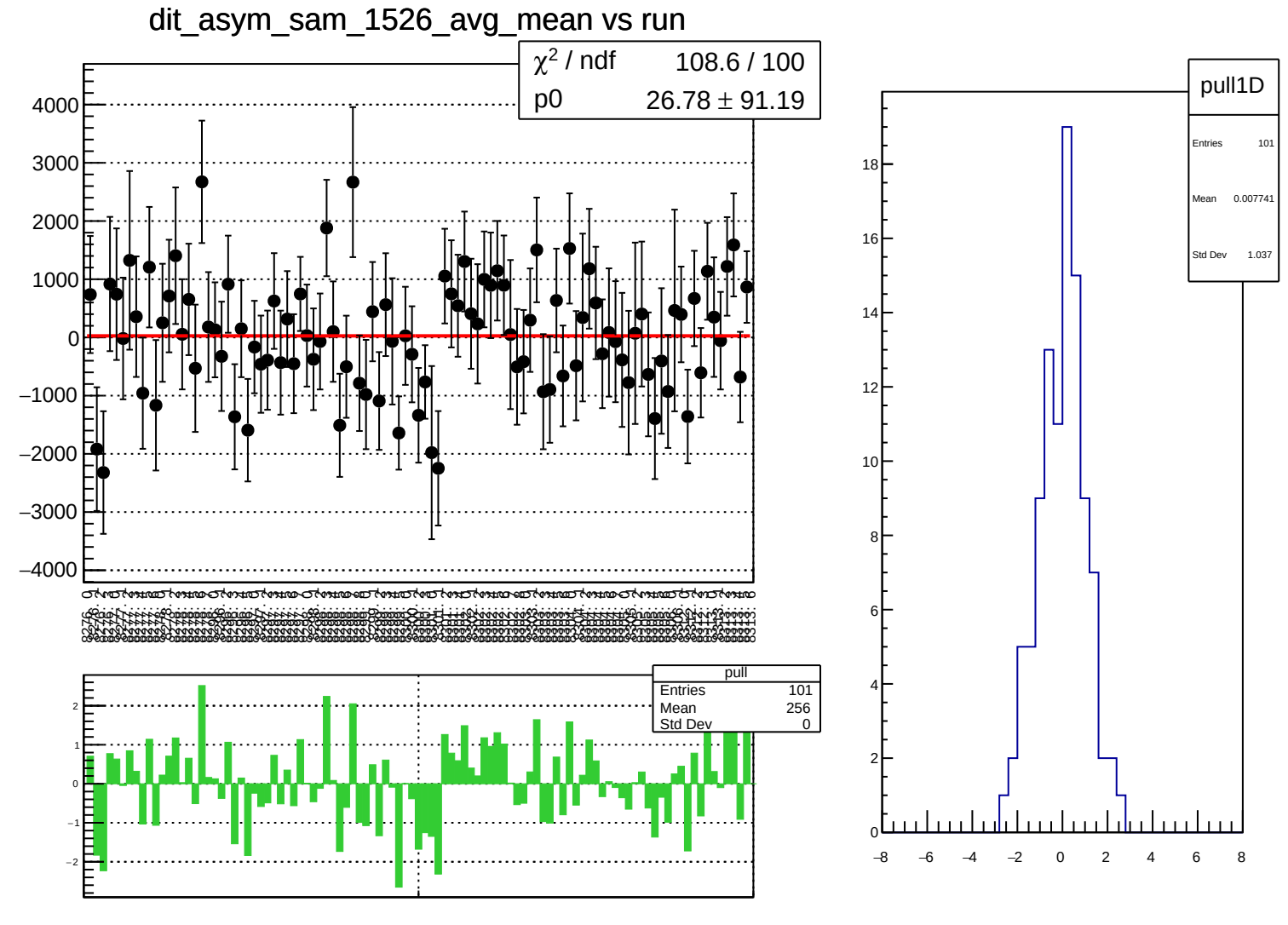
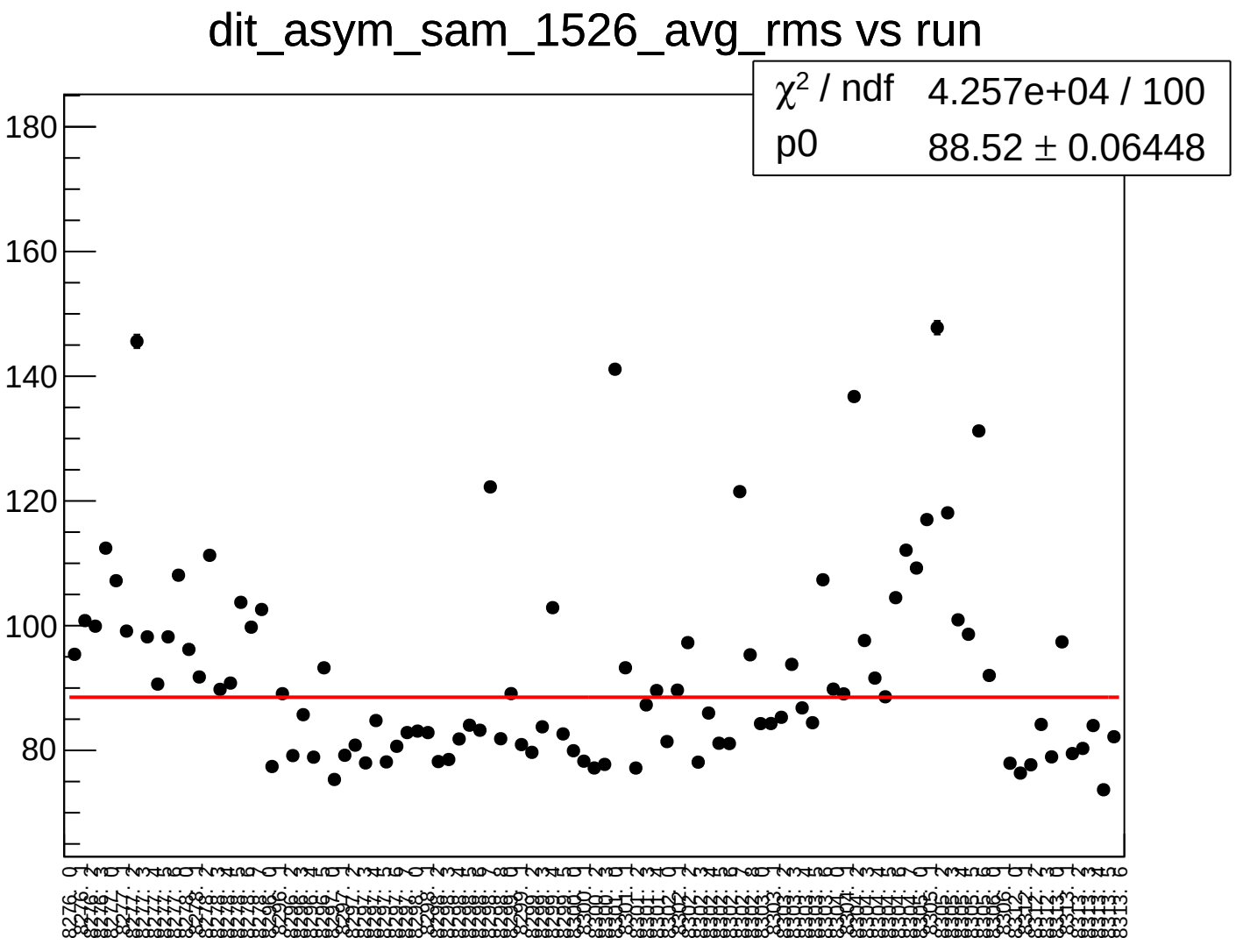
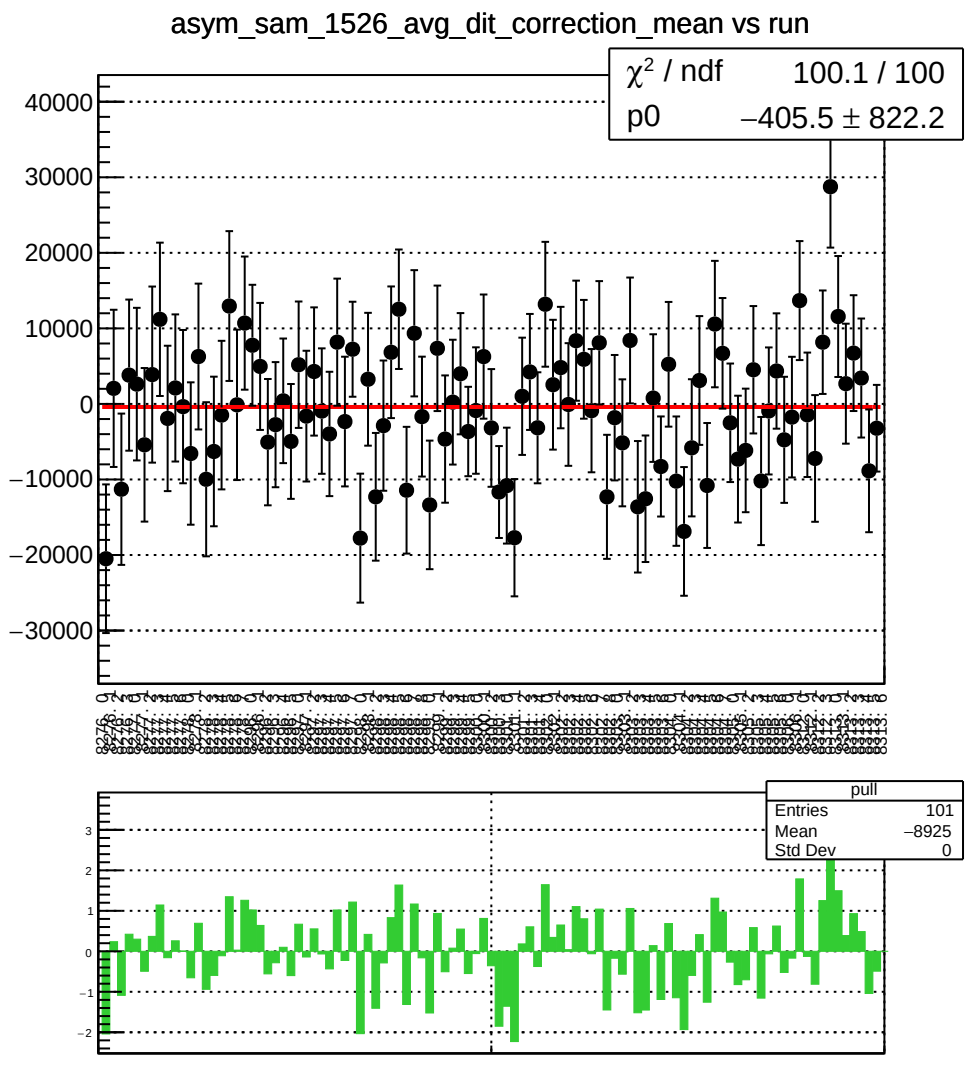
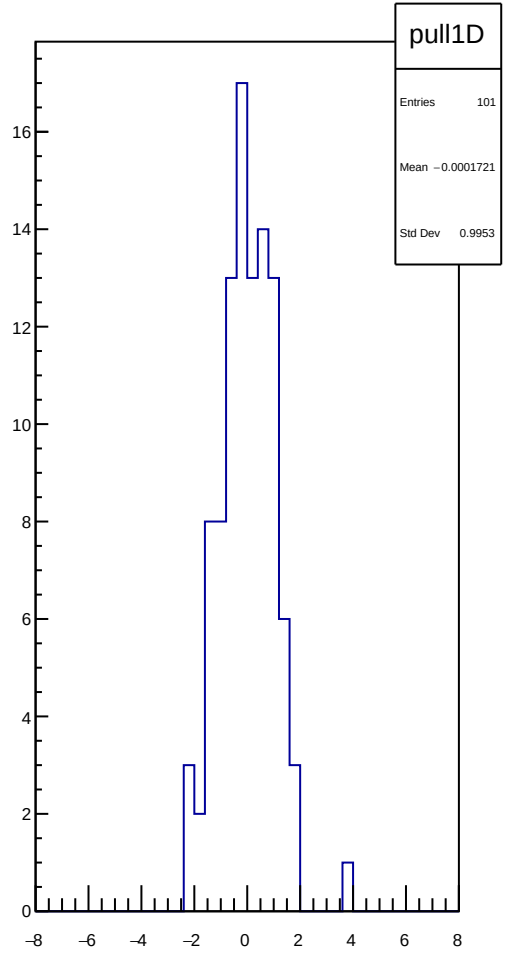
0
2
4
6
8

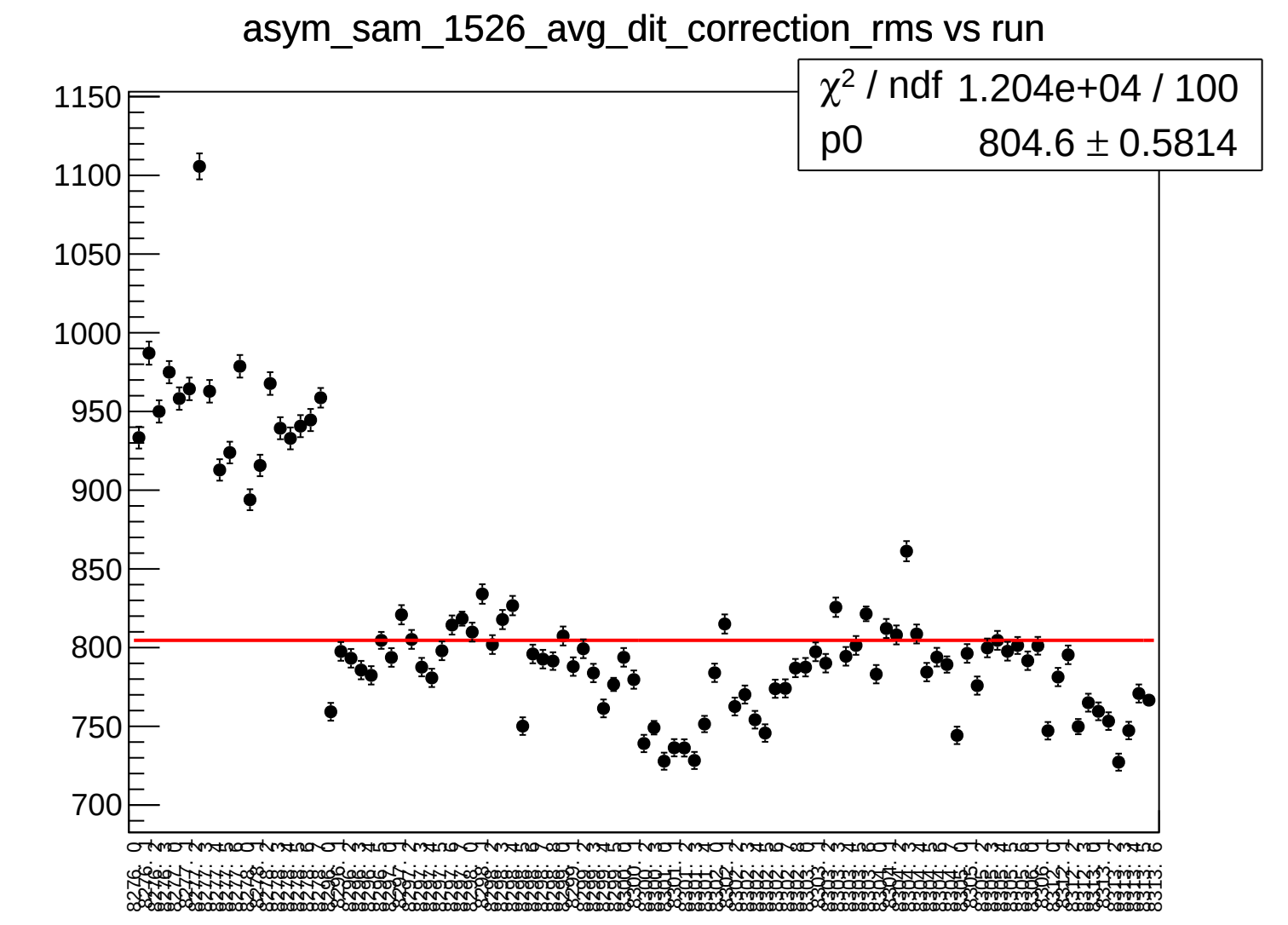

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.265e+04 / 100
p0 778.3 ± 0.5624
1050
1000
950
900
850
800
750
700
650
600

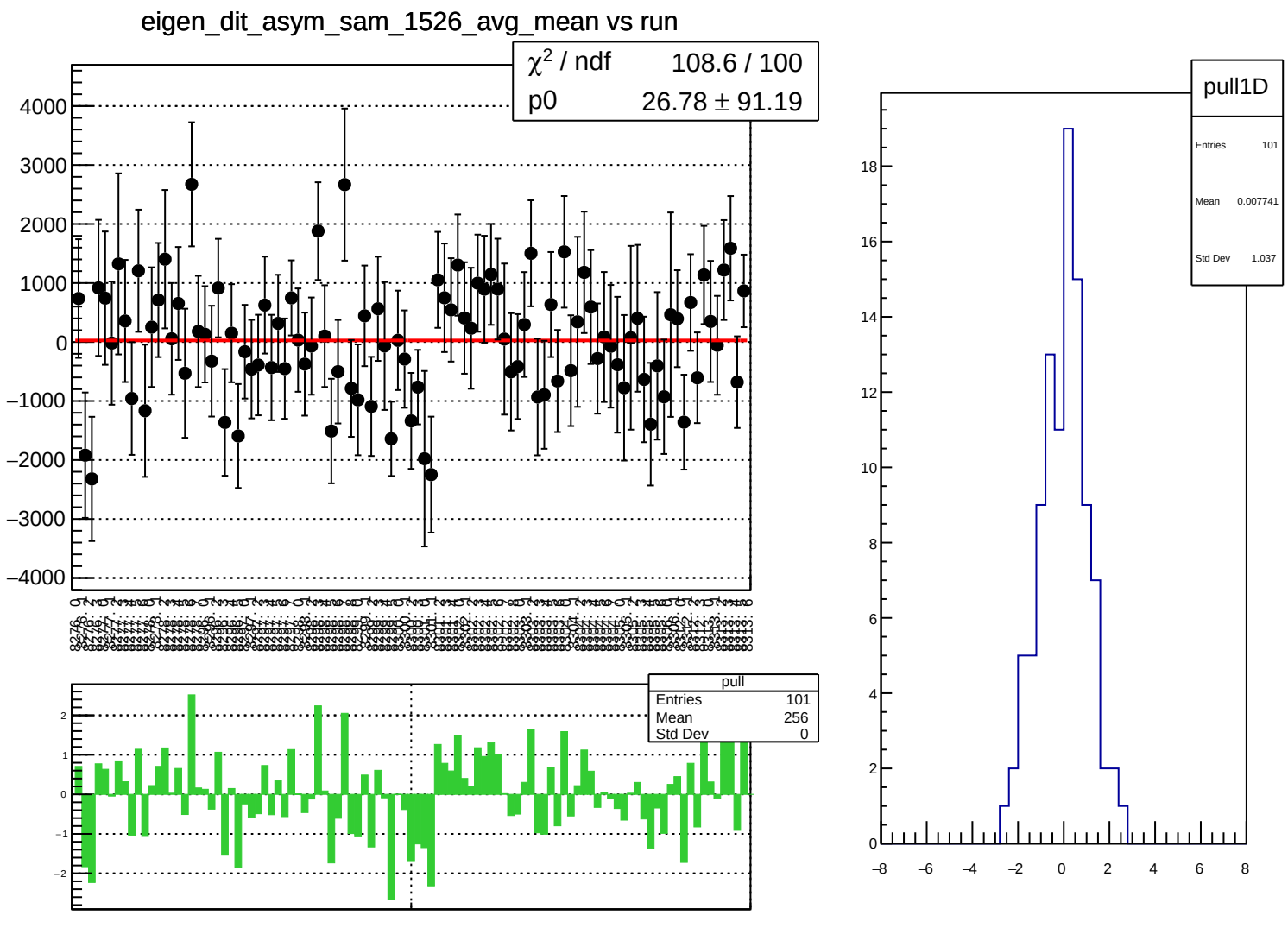

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 108.6 / 100
p0 26.78 ± 91.19
pull
Entries 101
Mean 256
Std Dev 0
pull1D
Entries 101
Mean 0.007741
Std Dev 1.037

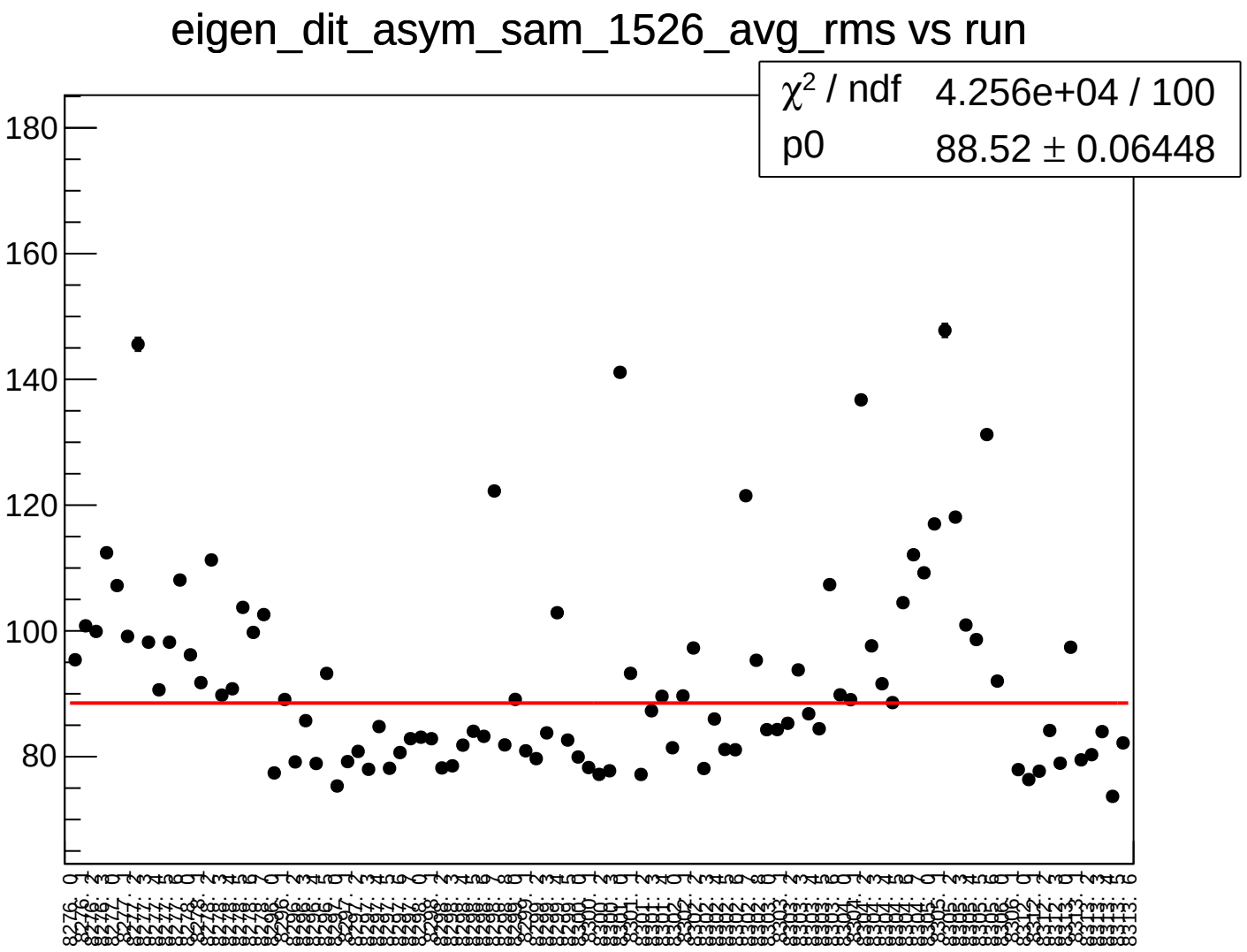

dit_asym_sam_1526_avg_rms vs run
χ² / ndf 4.257e+04 / 100
p0 88.52 ± 0.06448
180
160
140
120
100
80

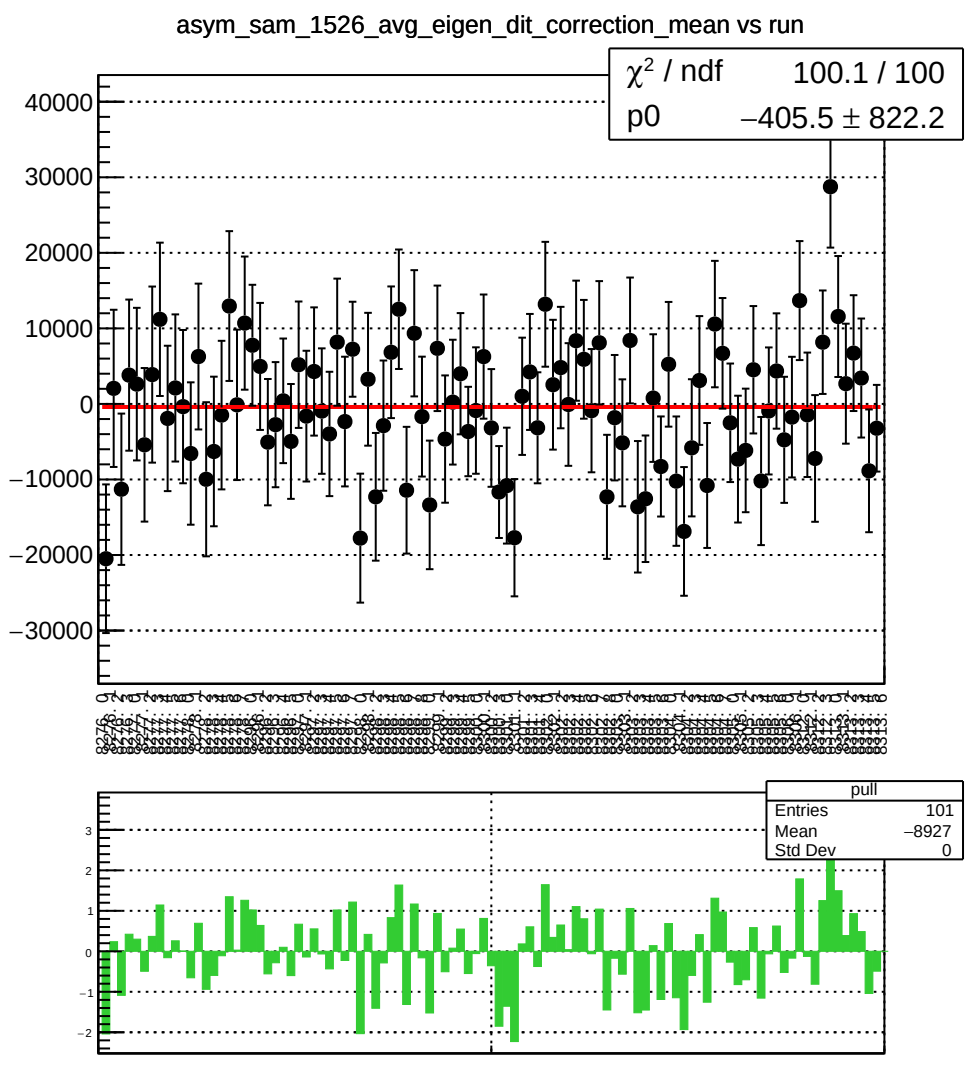

asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 100.1 / 100
p0 −405.5 ± 822.2
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 101
Mean −8925
Std Dev 0
3
2
1
0
−1
−2

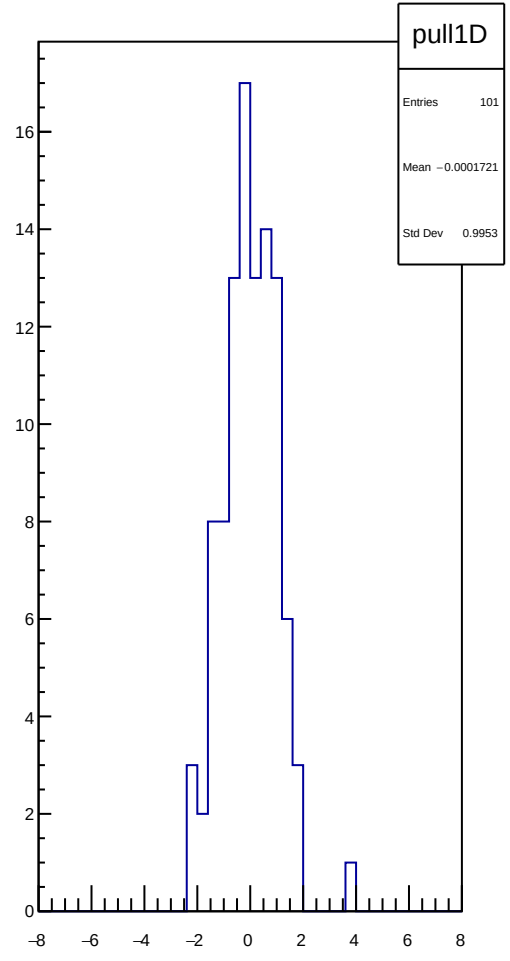

pull1D
Entries 101
Mean −0.0001721
Std Dev 0.9953
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

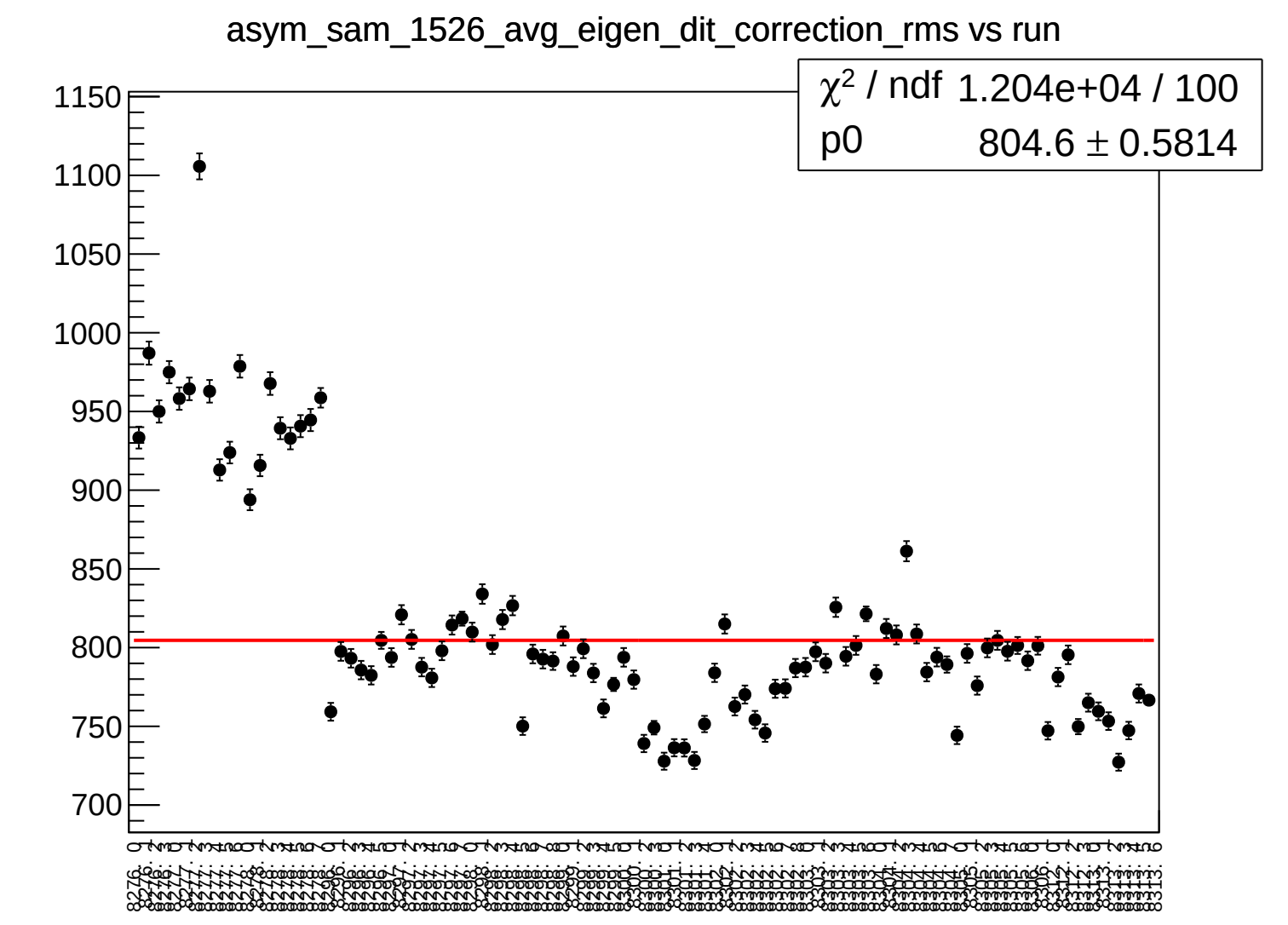

asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 1.204e+04 / 100
p0 804.6 ± 0.5814
1150
1100
1050
1000
950
900
850
800
750
700

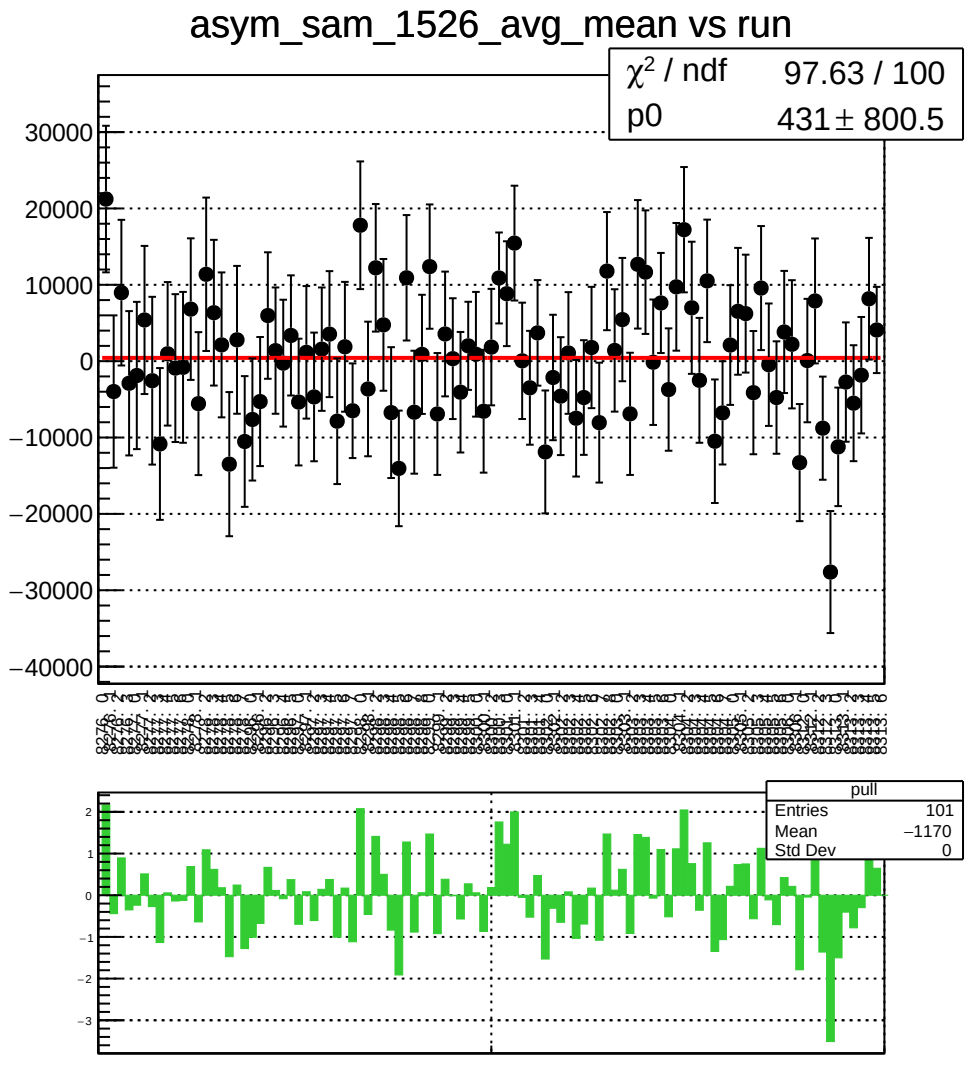

eigen_dit_asym_sam_1526_avg_mean vs run
χ² / ndf 108.6 / 100
p0 26.78 ± 91.19
pull
Entries 101
Mean 256
Std Dev 0
pull1D
Entries 101
Mean 0.007741
Std Dev 1.037

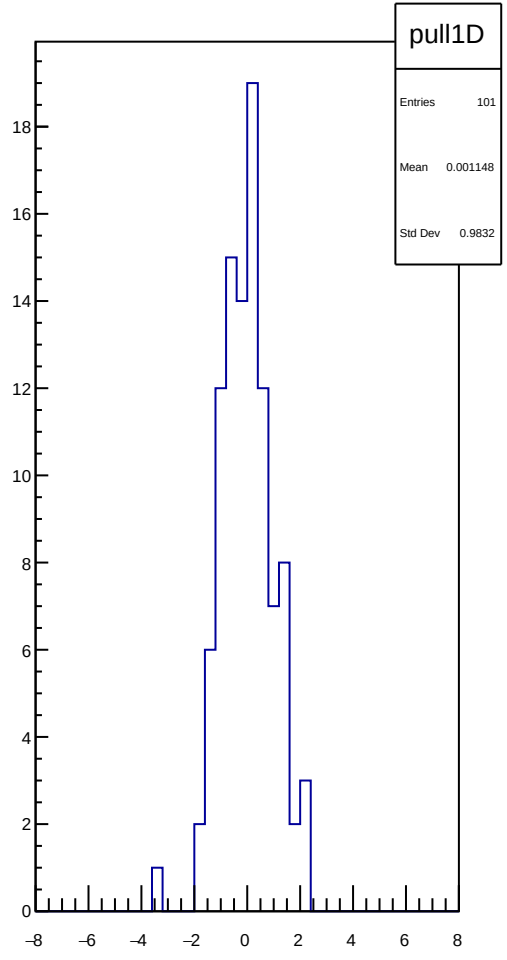

eigen_dit_asym_sam_1526_avg_rms vs run
χ² / ndf 4.256e+04 / 100
p0 88.52 ± 0.06448
180
160
140
120
100
80

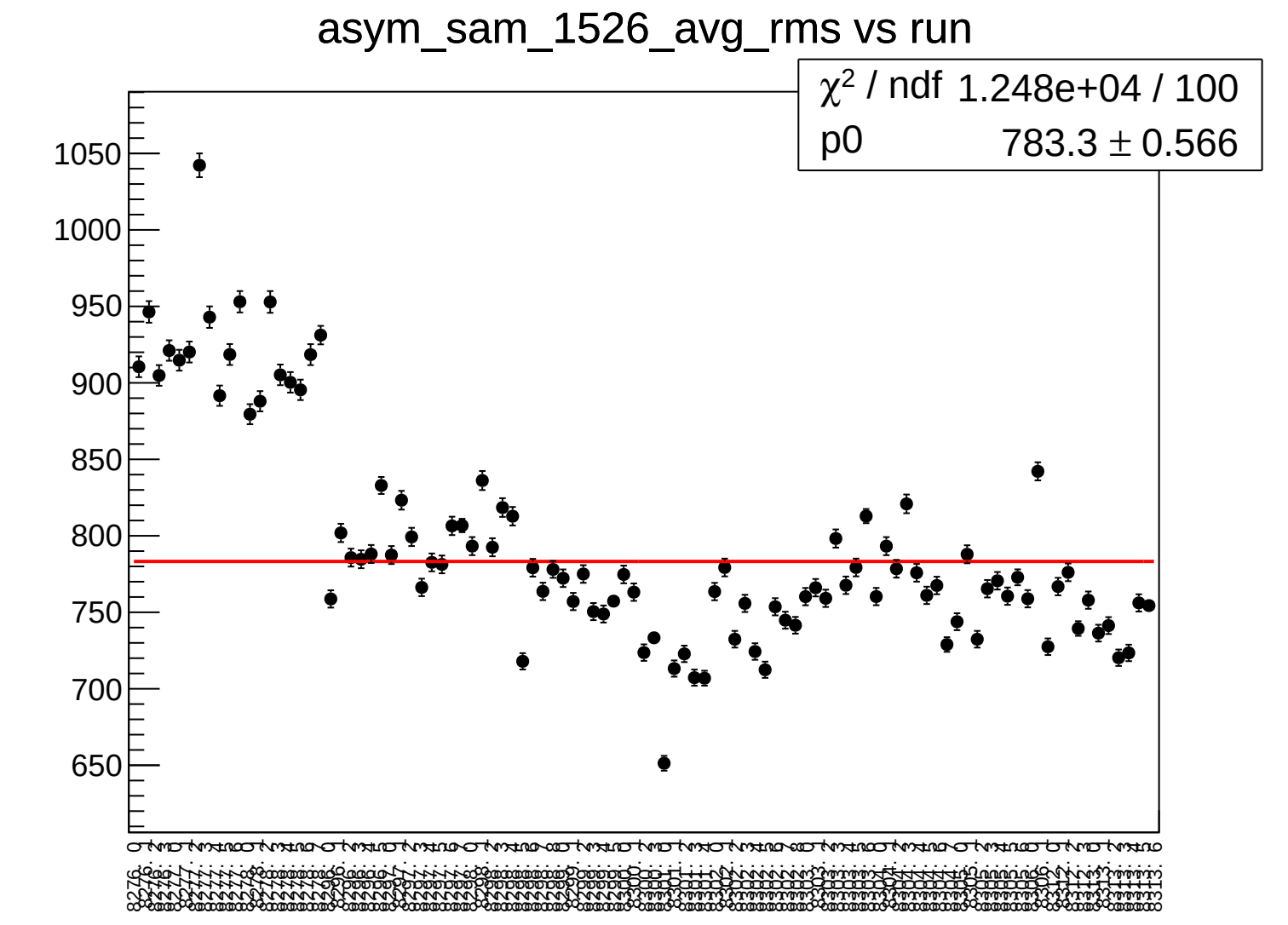

asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 100.1 / 100
p0 −405.5 ± 822.2
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 101
Mean −8927
Std Dev 0
3
2
1
0
−1
−2

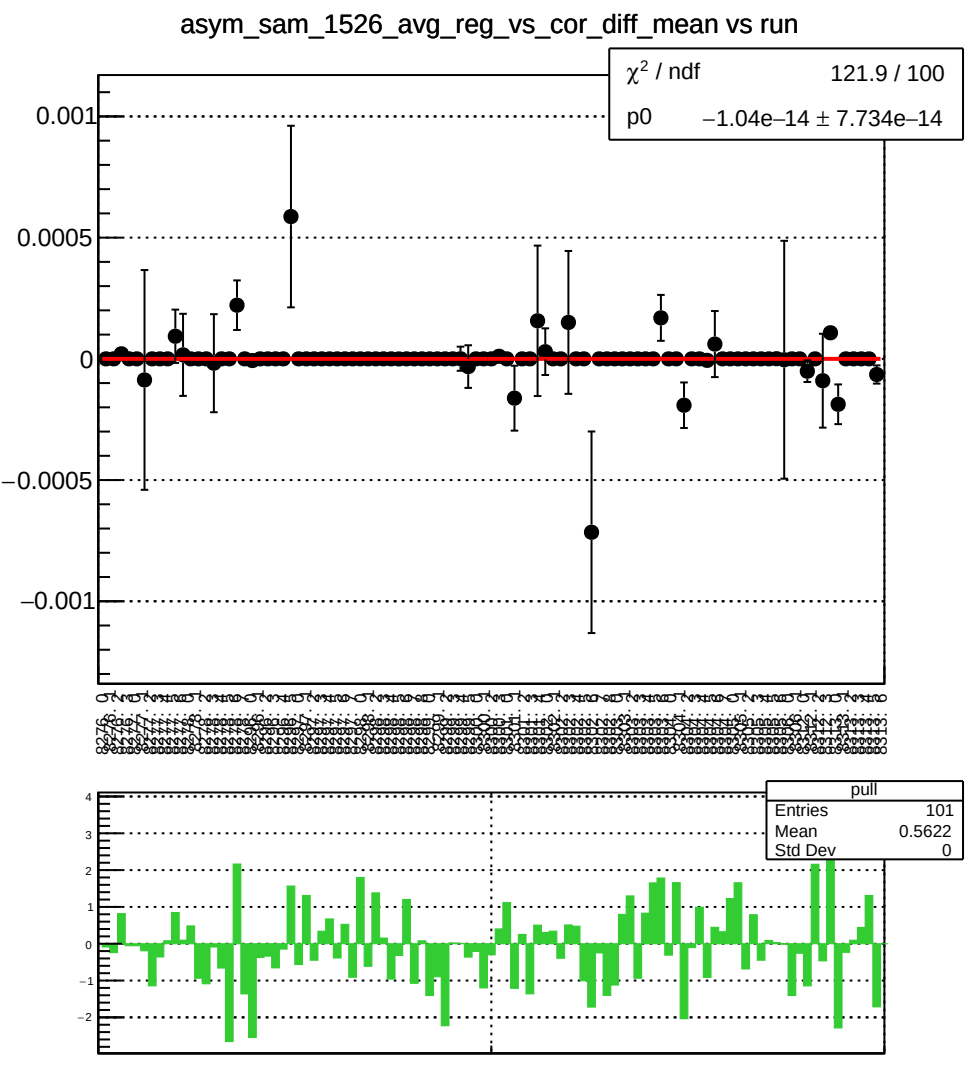

pull1D
Entries 101
Mean −0.0001721
Std Dev 0.9953
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

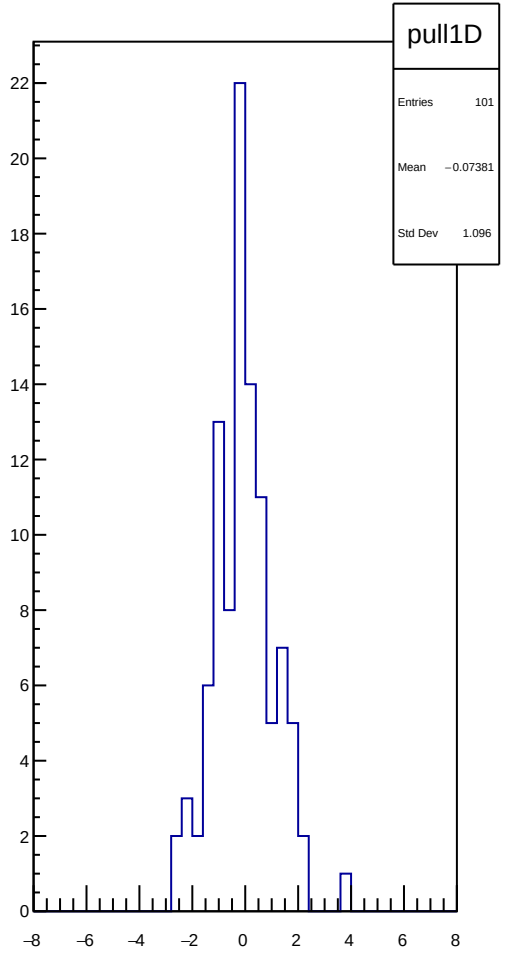

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.204e+04 / 100
p0 804.6 ± 0.5814
1150
1100
1050
1000
950
900
850
800
750
700

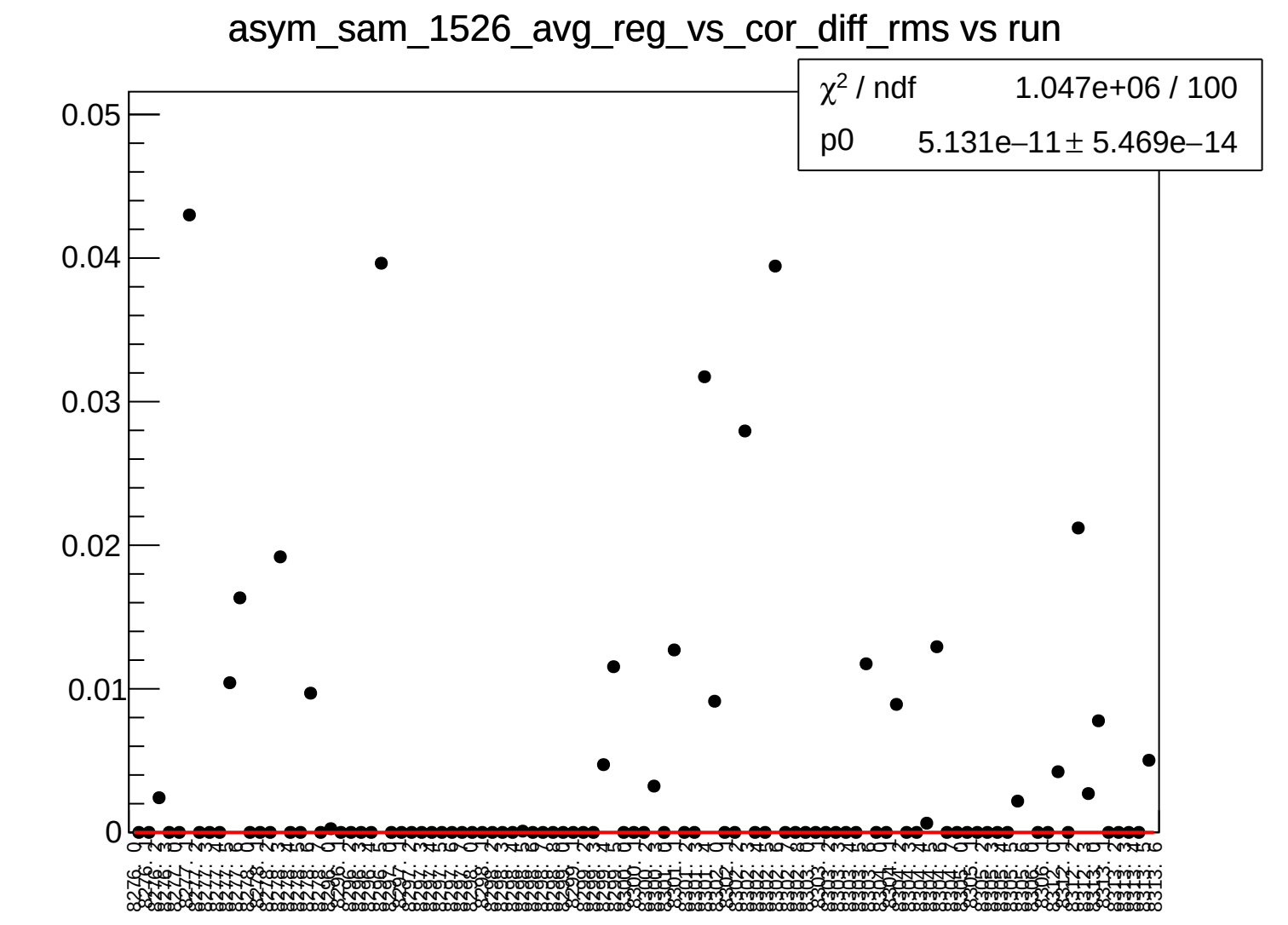

asym_sam_1526_avg_mean vs run
χ² / ndf 97.63 / 100
p0 431 ± 800.5
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 101
Mean −1170
Std Dev 0
2
1
0
−1
−2
−3

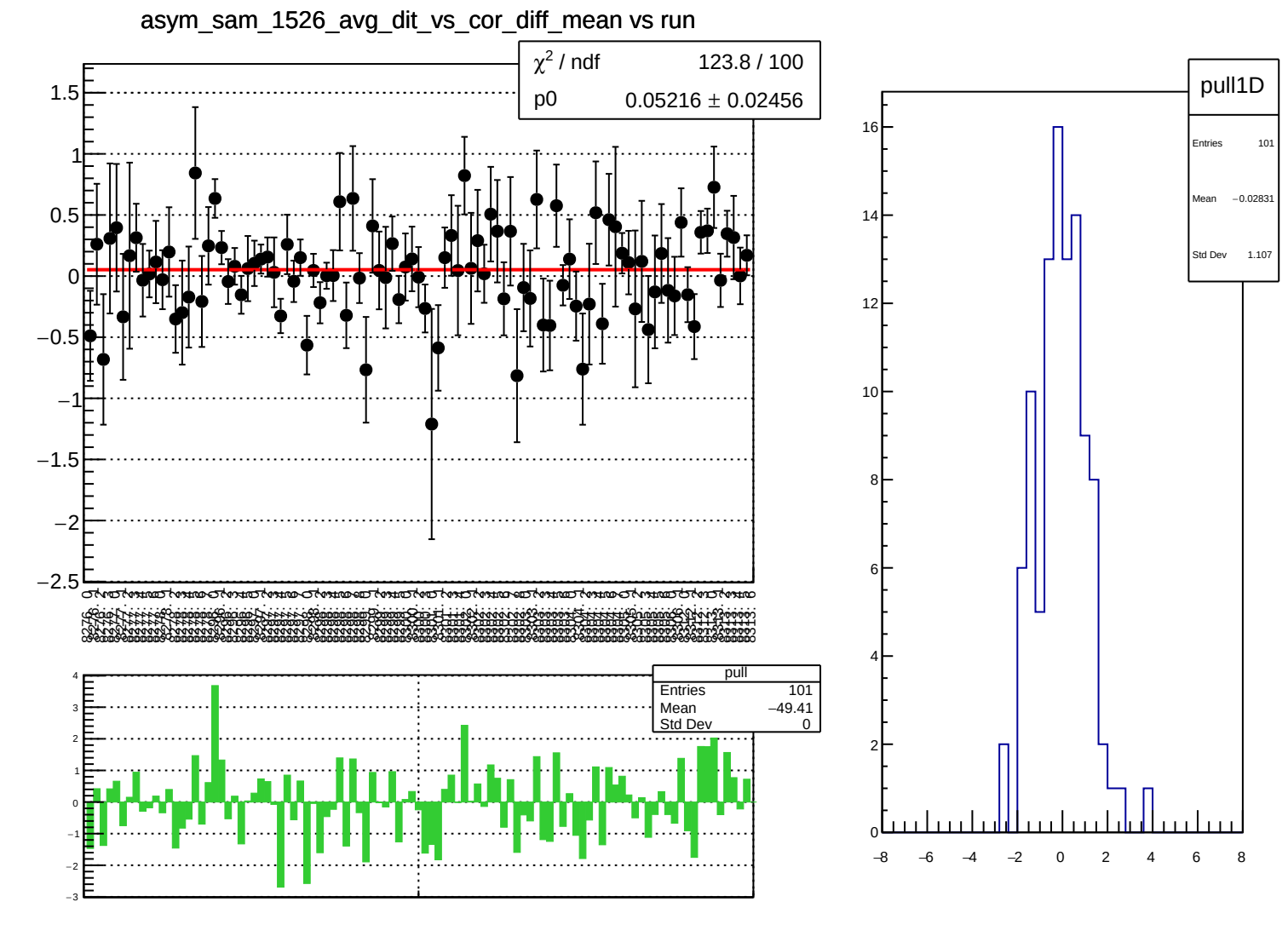

pull1D
Entries 101
Mean 0.001148
Std Dev 0.9832
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

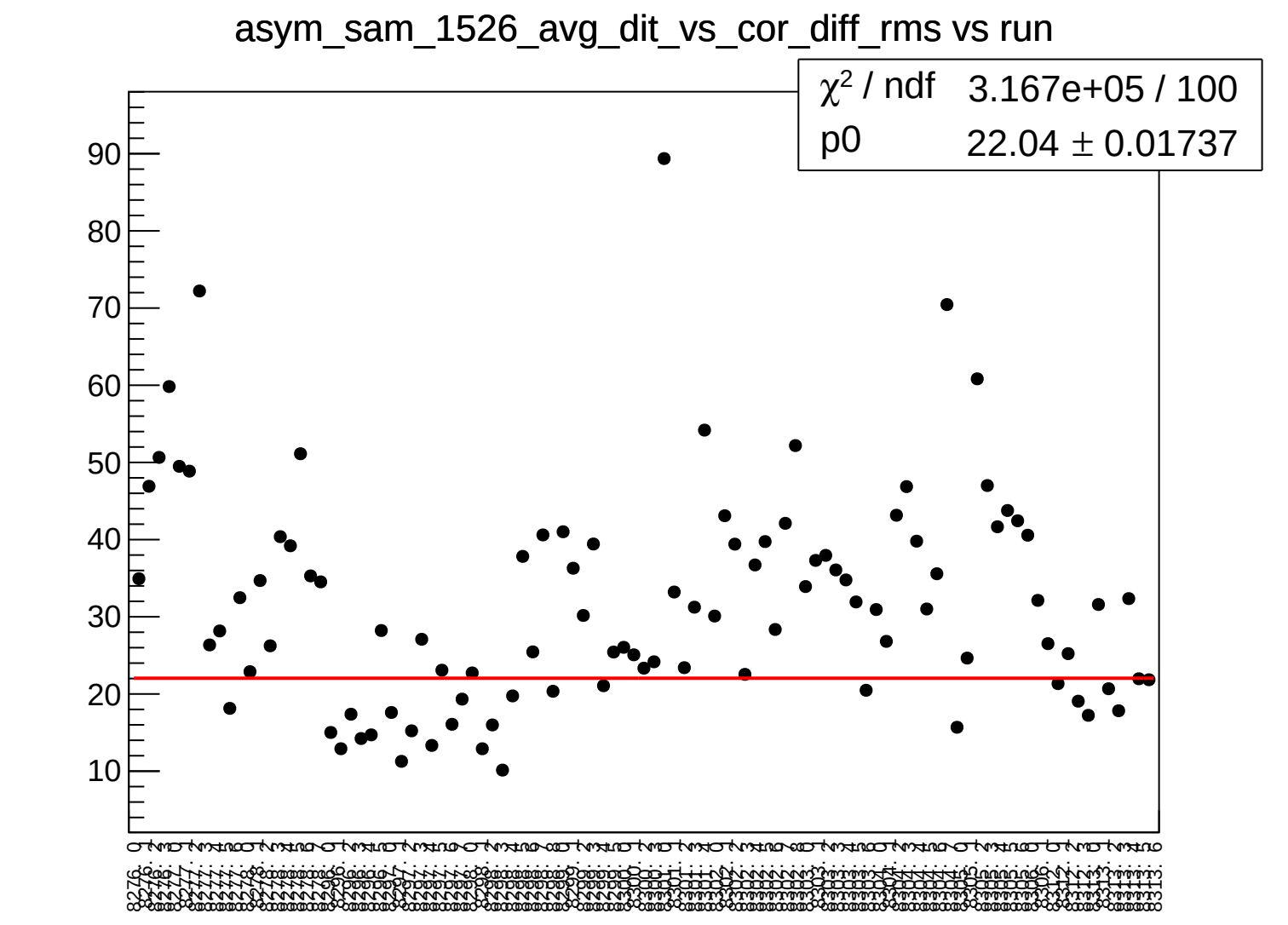

asym_sam_1526_avg_rms vs run
χ^2 / ndf 1.248e+04 / 100
p0 783.3 ± 0.566
1050
1000
950
900
850
800
750
700
650

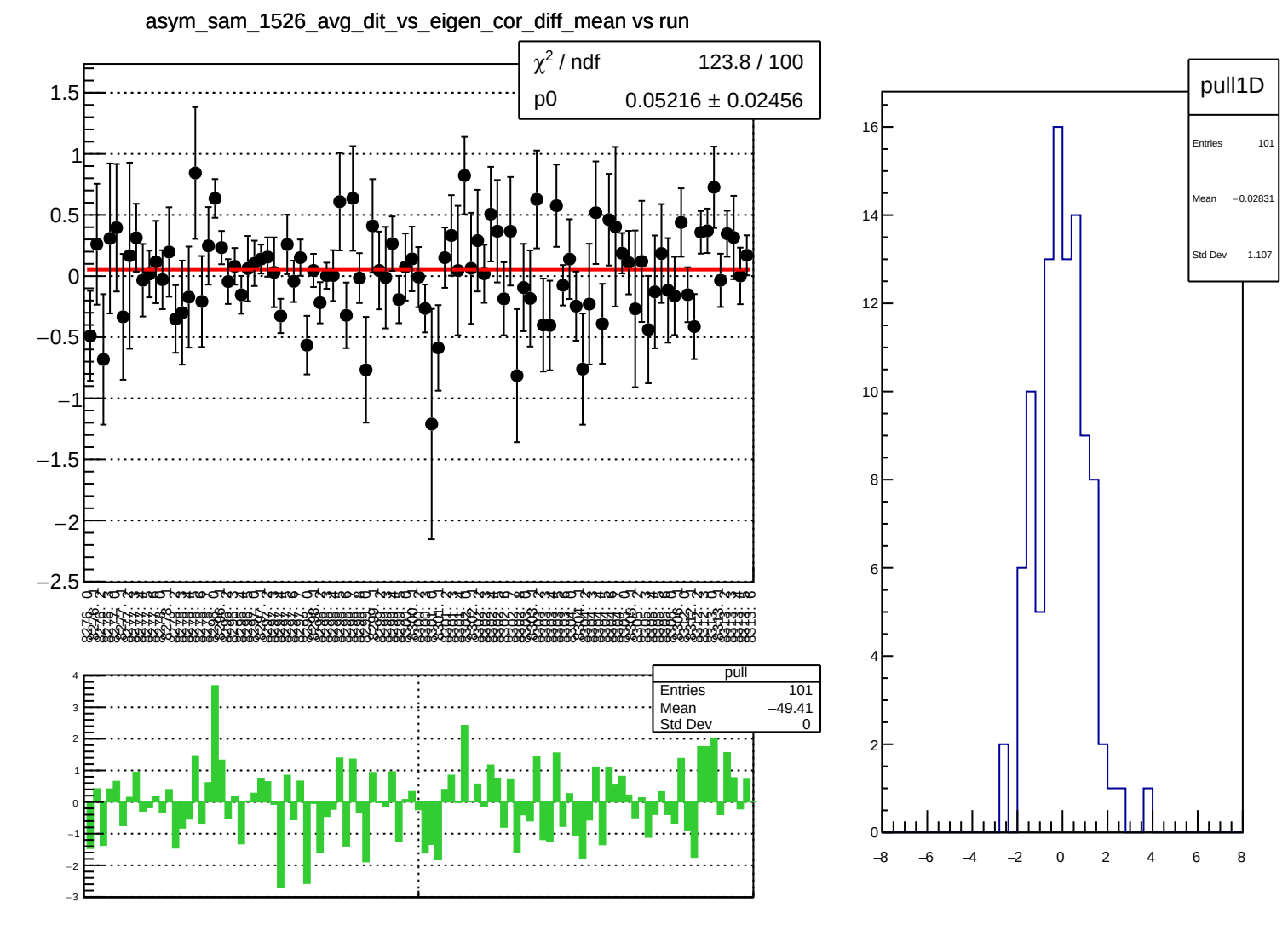

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 121.9 / 100
p0 −1.04e−14 ± 7.734e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 101
Mean 0.5622
Std Dev 0
4
3
2
1
0
−1
−2

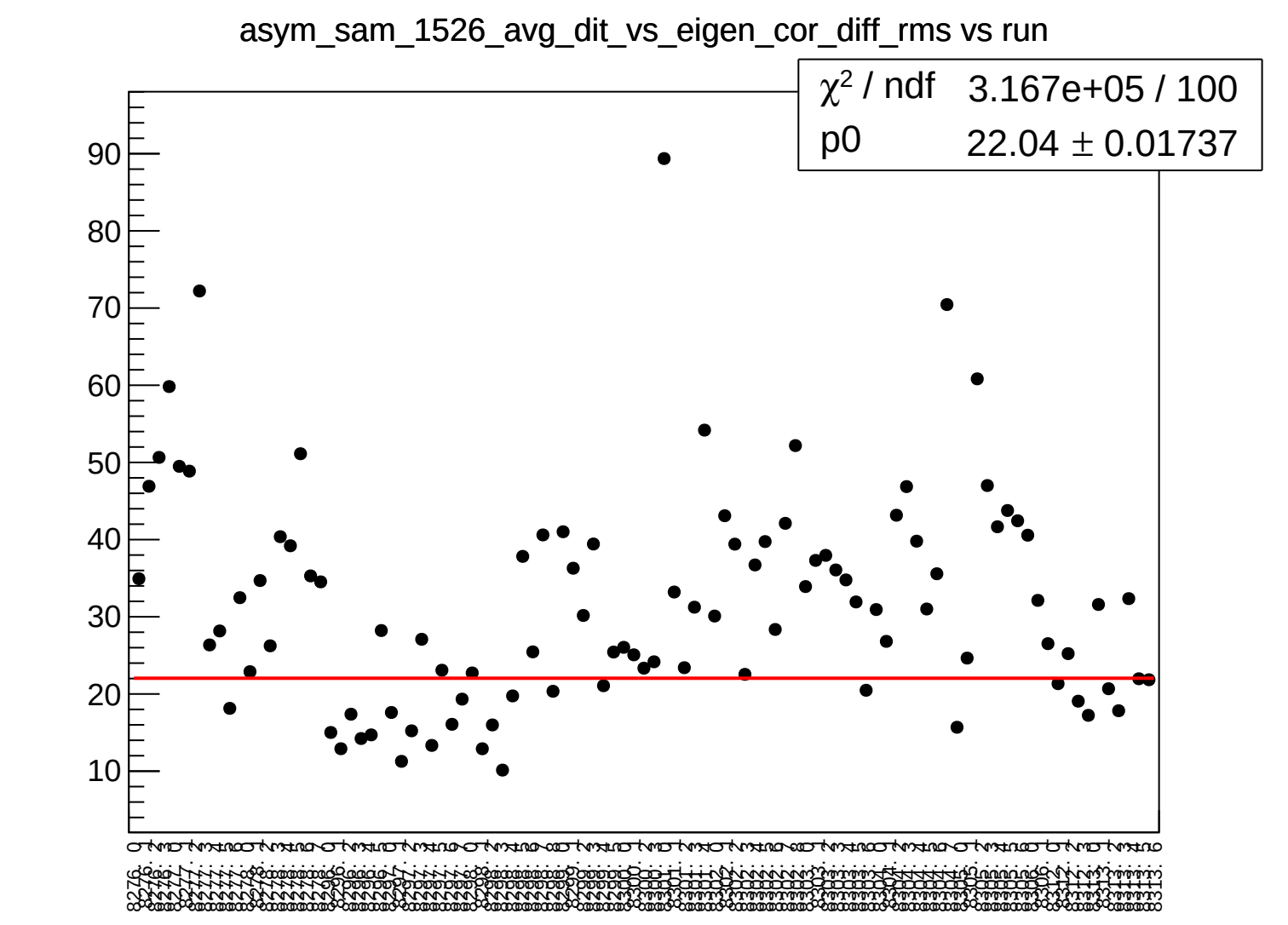

pull1D
Entries 101
Mean −0.07381
Std Dev 1.096
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

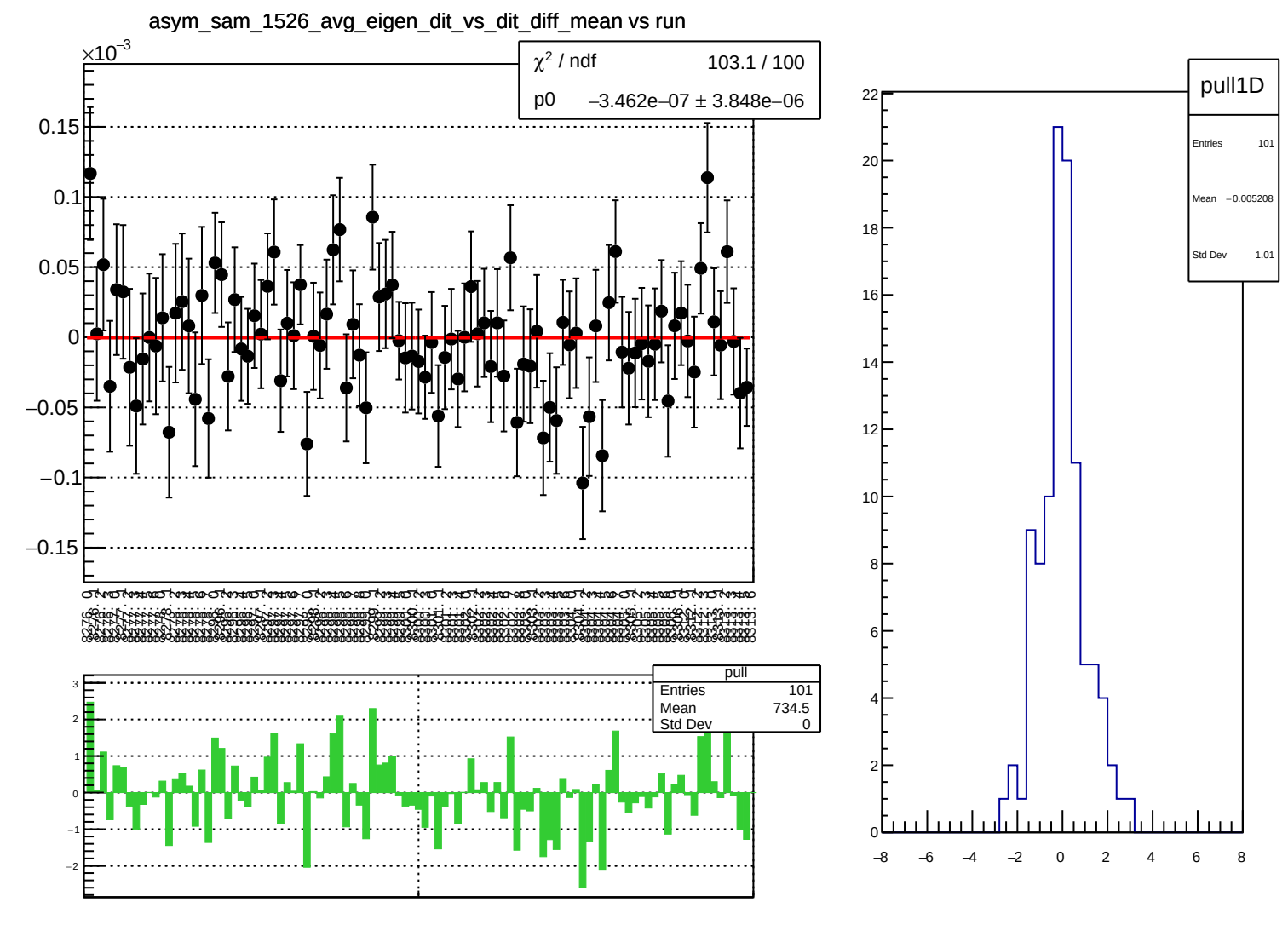

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.047e+06 / 100
p0 5.131e−11 ± 5.469e−14
0.05
0.04
0.03
0.02
0.01
0

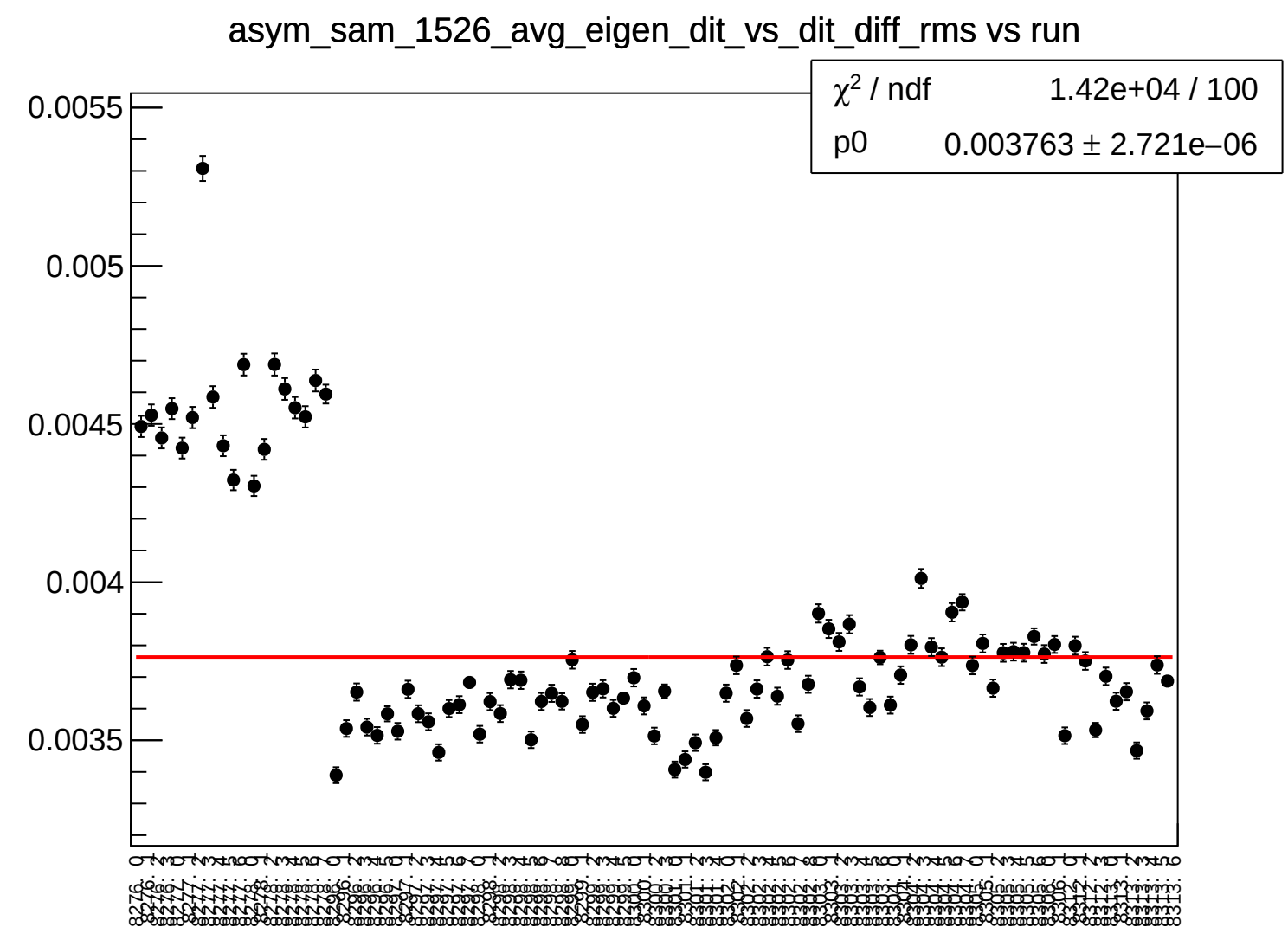

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 123.8 / 100
p0 0.05216 ± 0.02456
pull
Entries 101
Mean −49.41
Std Dev 0
pull1D
Entries 101
Mean −0.02831
Std Dev 1.107

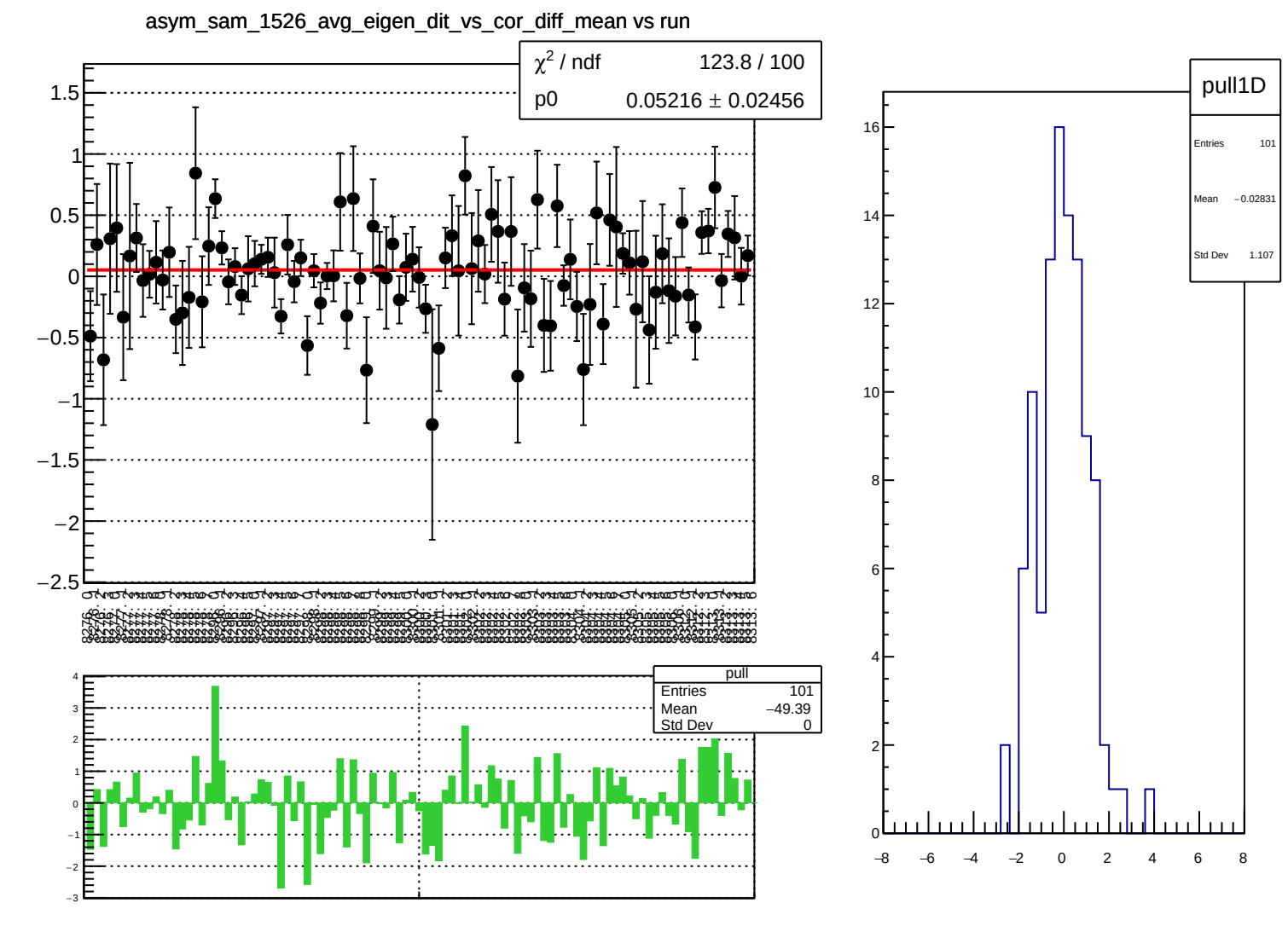

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.167e+05 / 100
p0 22.04 ± 0.01737
90
80
70
60
50
40
30
20
10

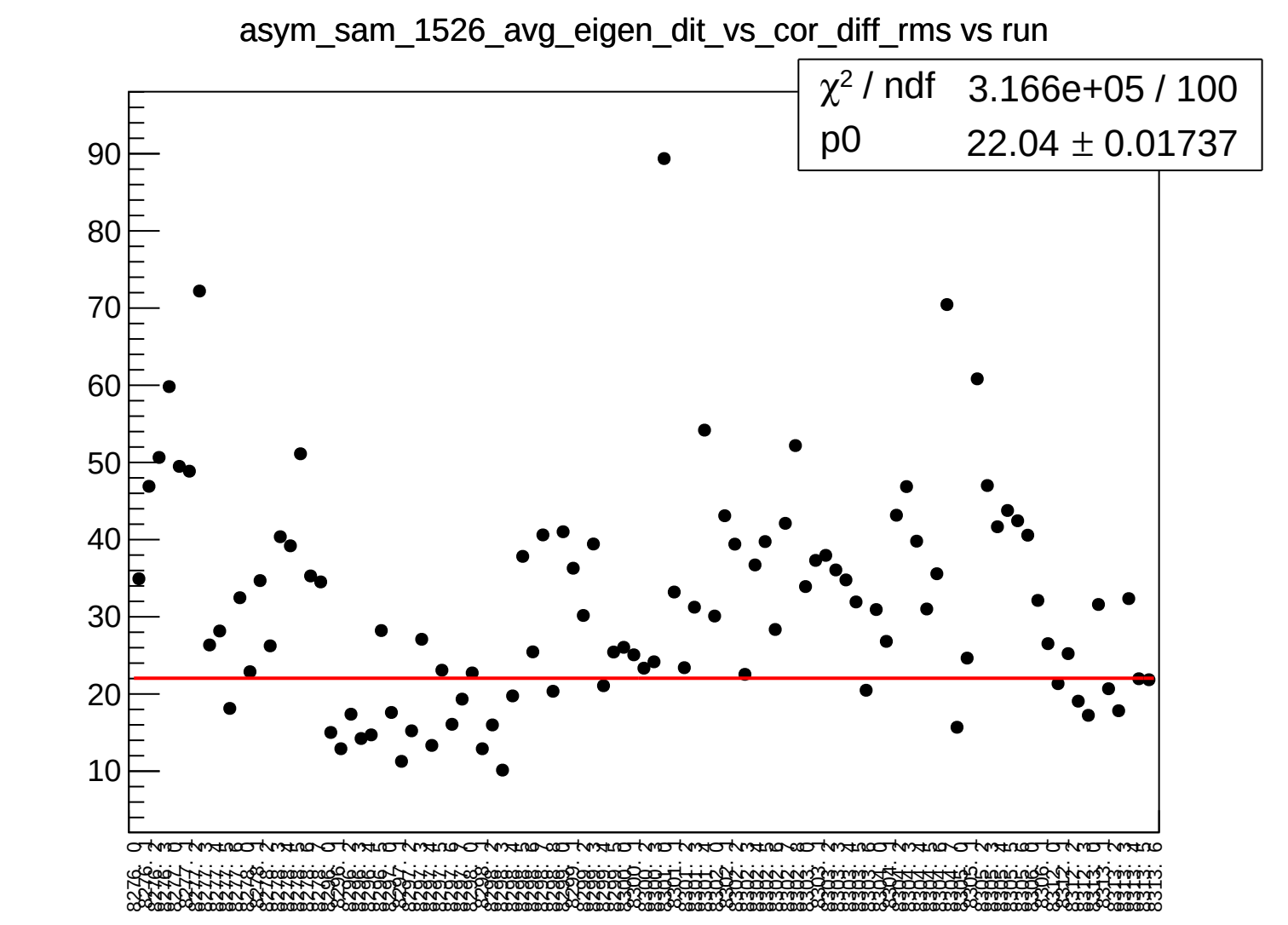

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 123.8 / 100
p0 0.05216 ± 0.02456
pull
Entries 101
Mean −49.41
Std Dev 0
pull1D
Entries 101
Mean −0.02831
Std Dev 1.107

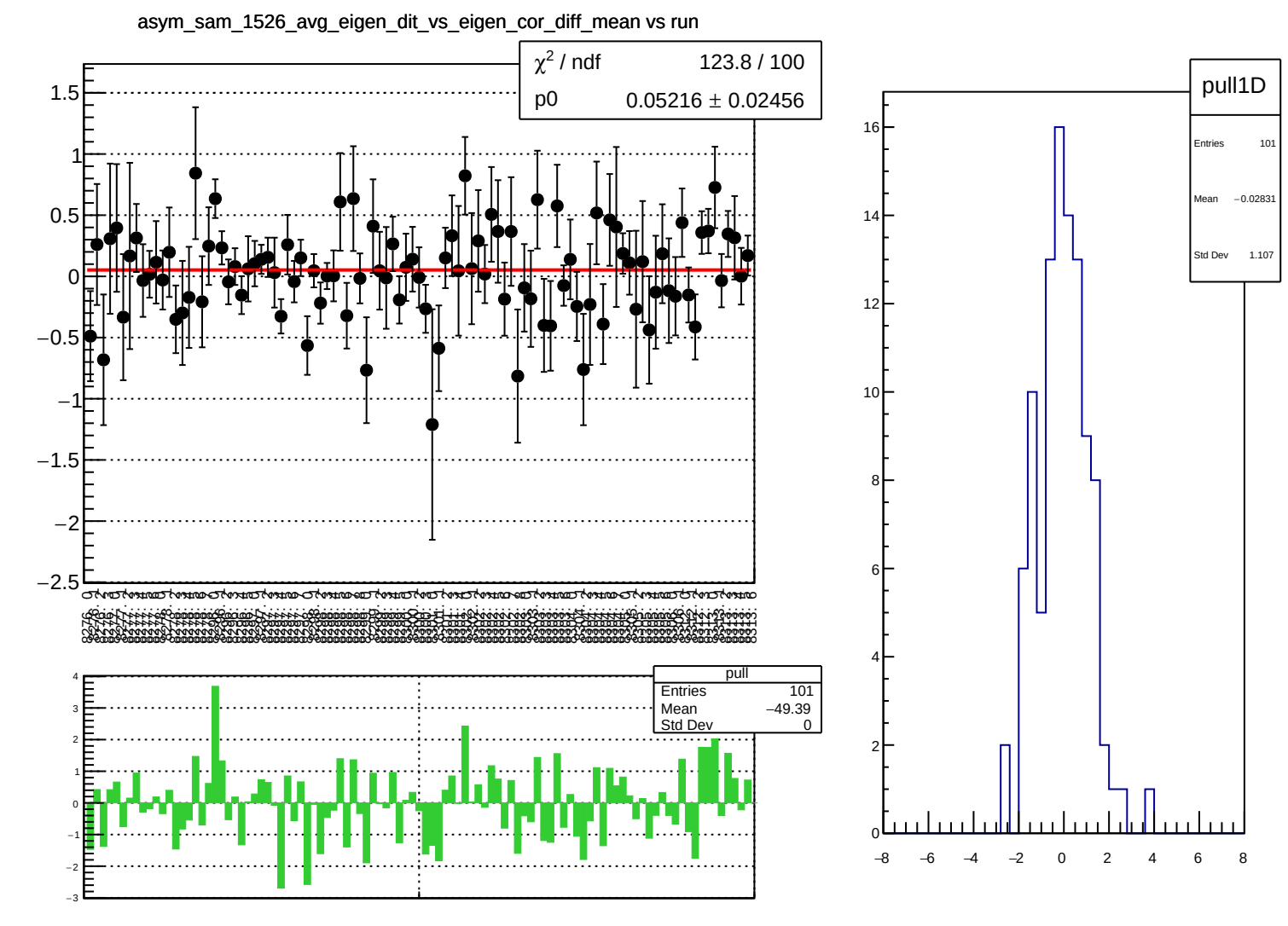

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.167e+05 / 100
p0 22.04 ± 0.01737
90
80
70
60
50
40
30
20
10

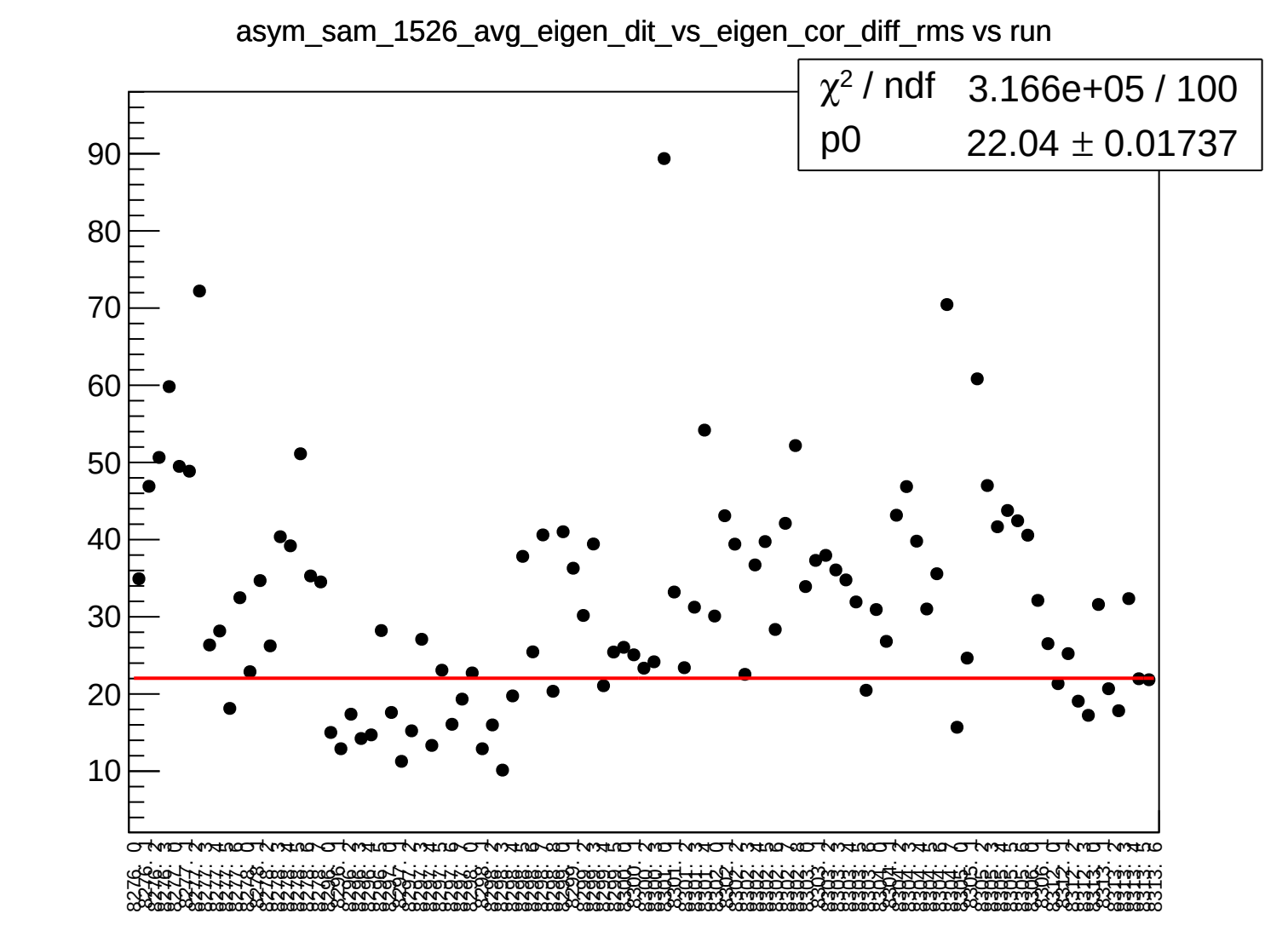

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103.1 / 100
p0 −3.462e−07 ± 3.848e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 101
Mean 734.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.005208
Std Dev 1.01
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

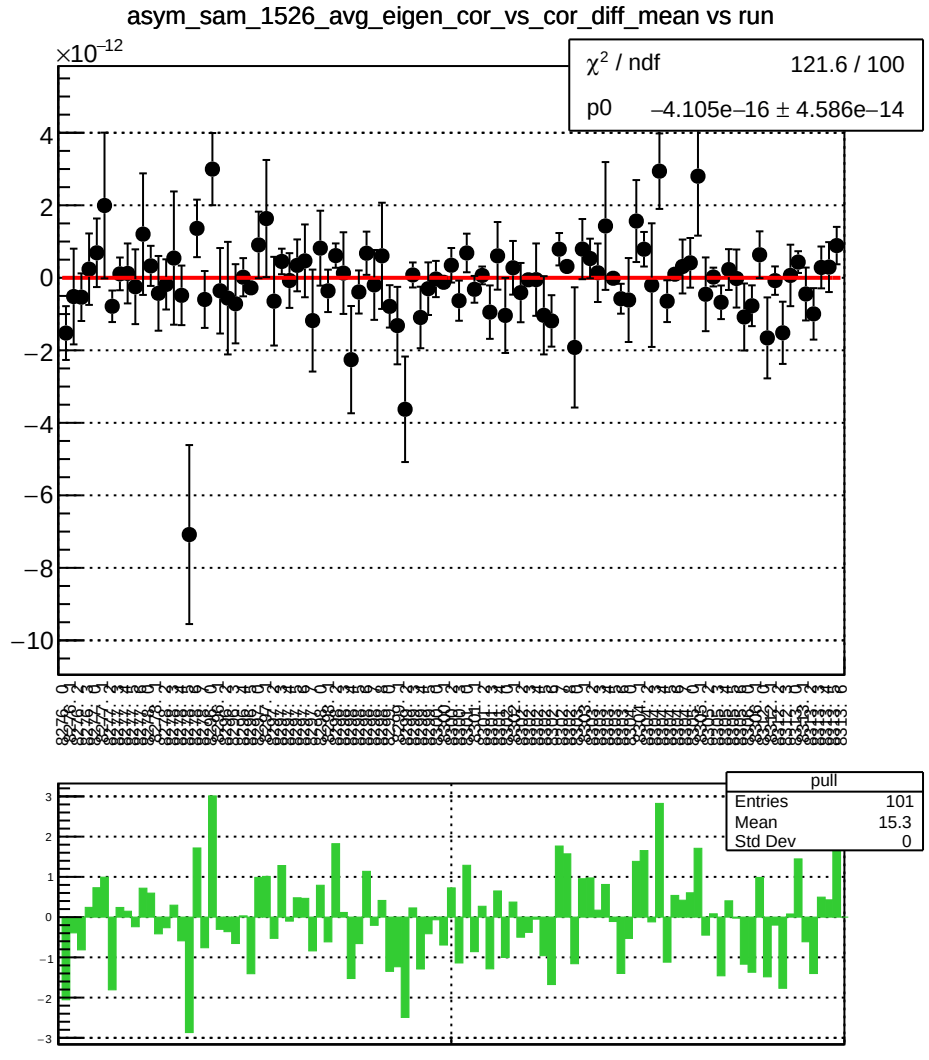

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.42e+04 / 100
p0 0.003763 ± 2.721e−06
0.0055
0.005
0.0045
0.004
0.0035

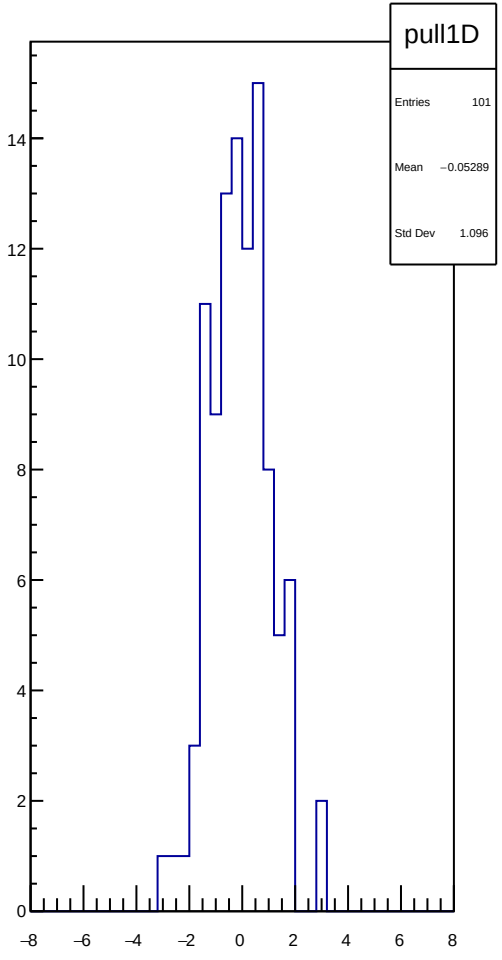

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 123.8 / 100
p0 0.05216 ± 0.02456
pull
Entries 101
Mean −49.39
Std Dev 0
pull1D
Entries 101
Mean −0.02831
Std Dev 1.107

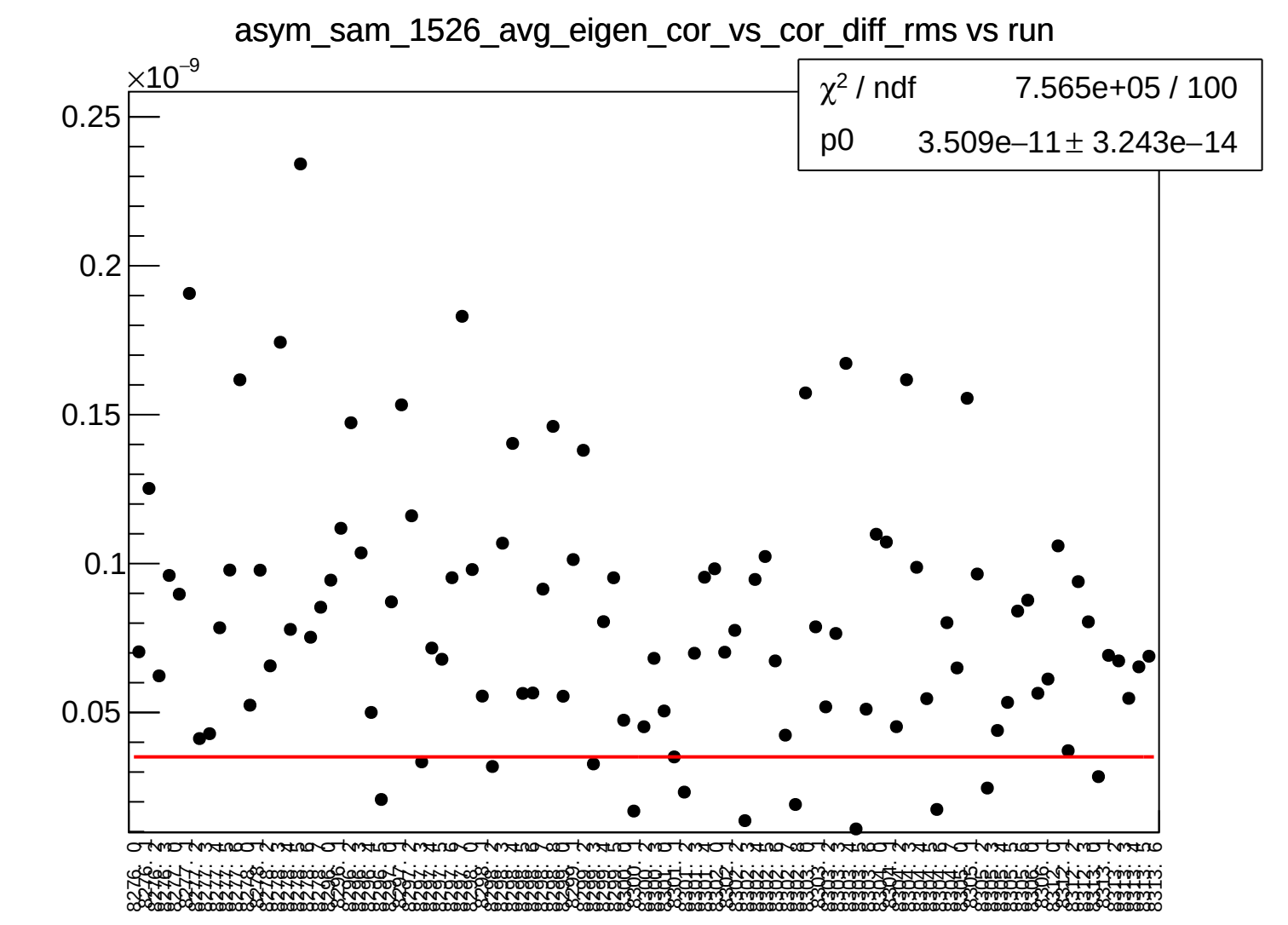

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.166e+05 / 100
p0 22.04 ± 0.01737
90
80
70
60
50
40
30
20
10

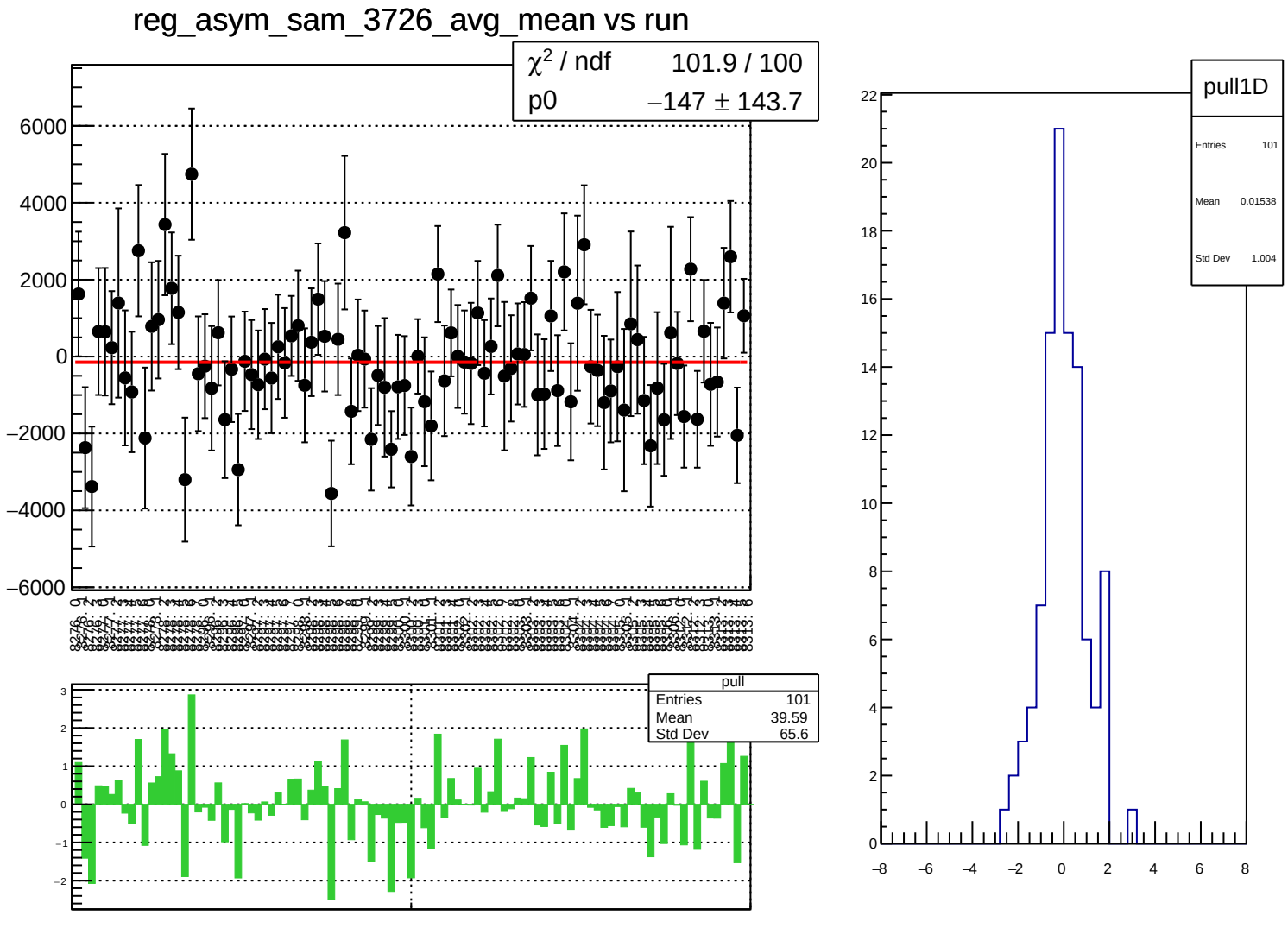

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 123.8 / 100
p0 0.05216 ± 0.02456
pull
Entries 101
Mean −49.39
Std Dev 0
pull1D
Entries 101
Mean −0.02831
Std Dev 1.107

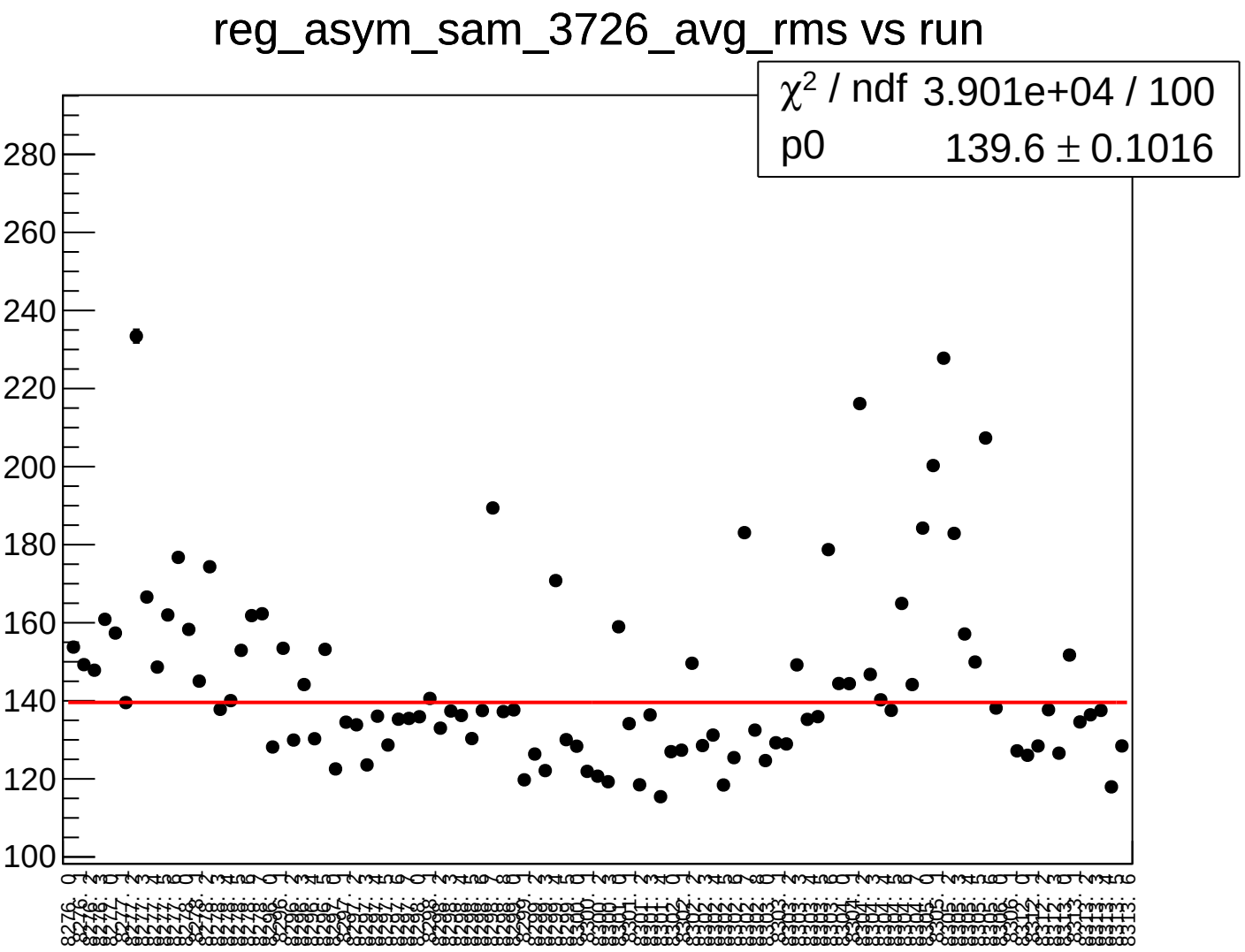

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.166e+05 / 100
p0 22.04 ± 0.01737
90
80
70
60
50
40
30
20
10

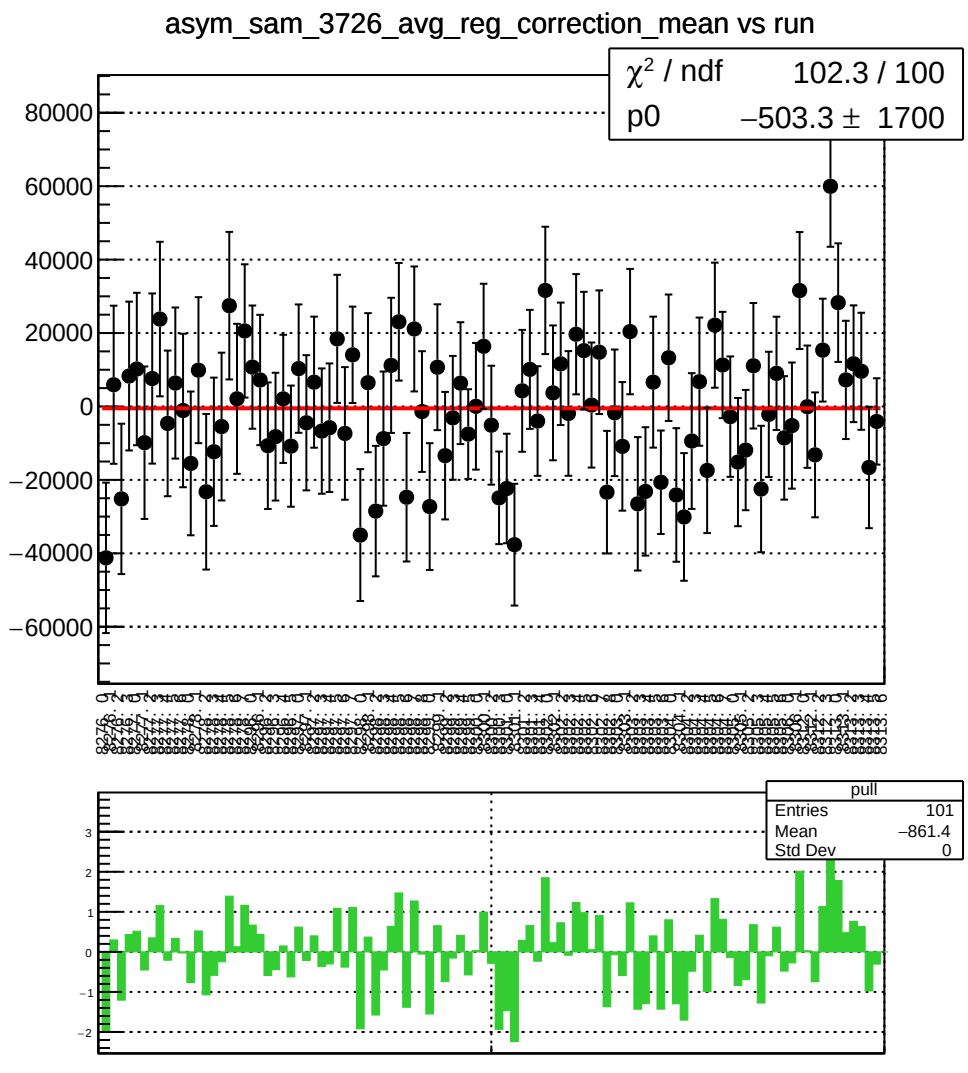

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 121.6 / 100
p0 −4.105e−16 ± 4.586e−14
pull
Entries 101
Mean 15.3
Std Dev 0

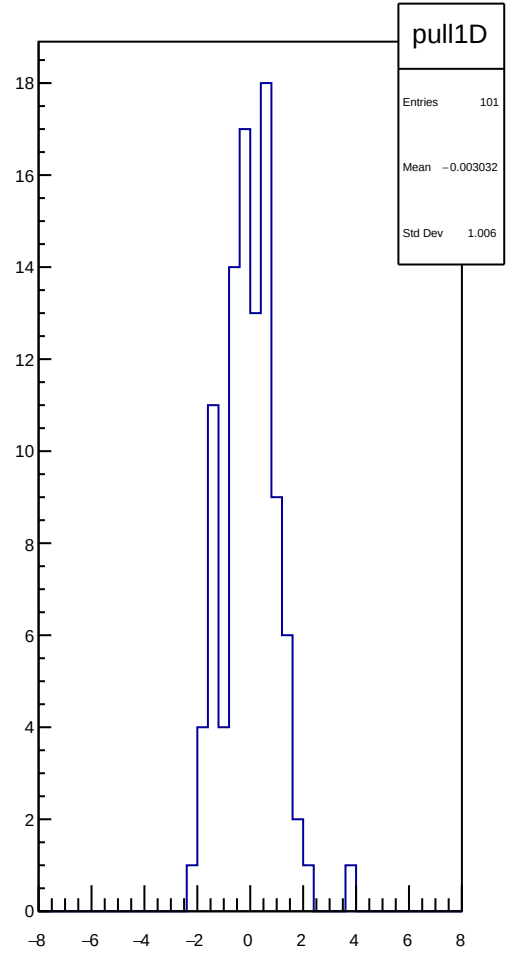

pull1D
Entries 101
Mean −0.05289
Std Dev 1.096

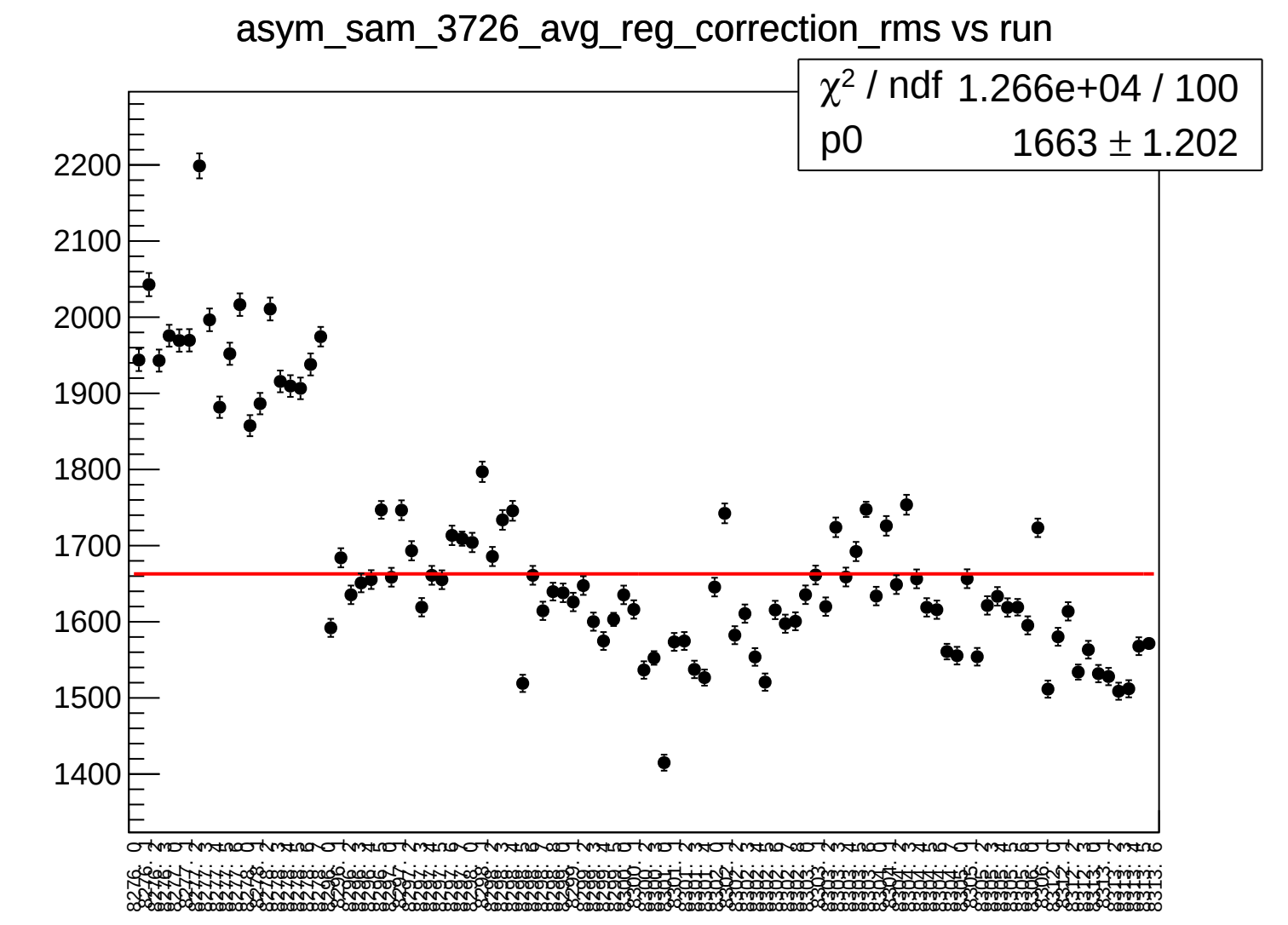

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.565e+05 / 100
p0 3.509e−11 ± 3.243e−14
0.25
0.2
0.15
0.1
0.05

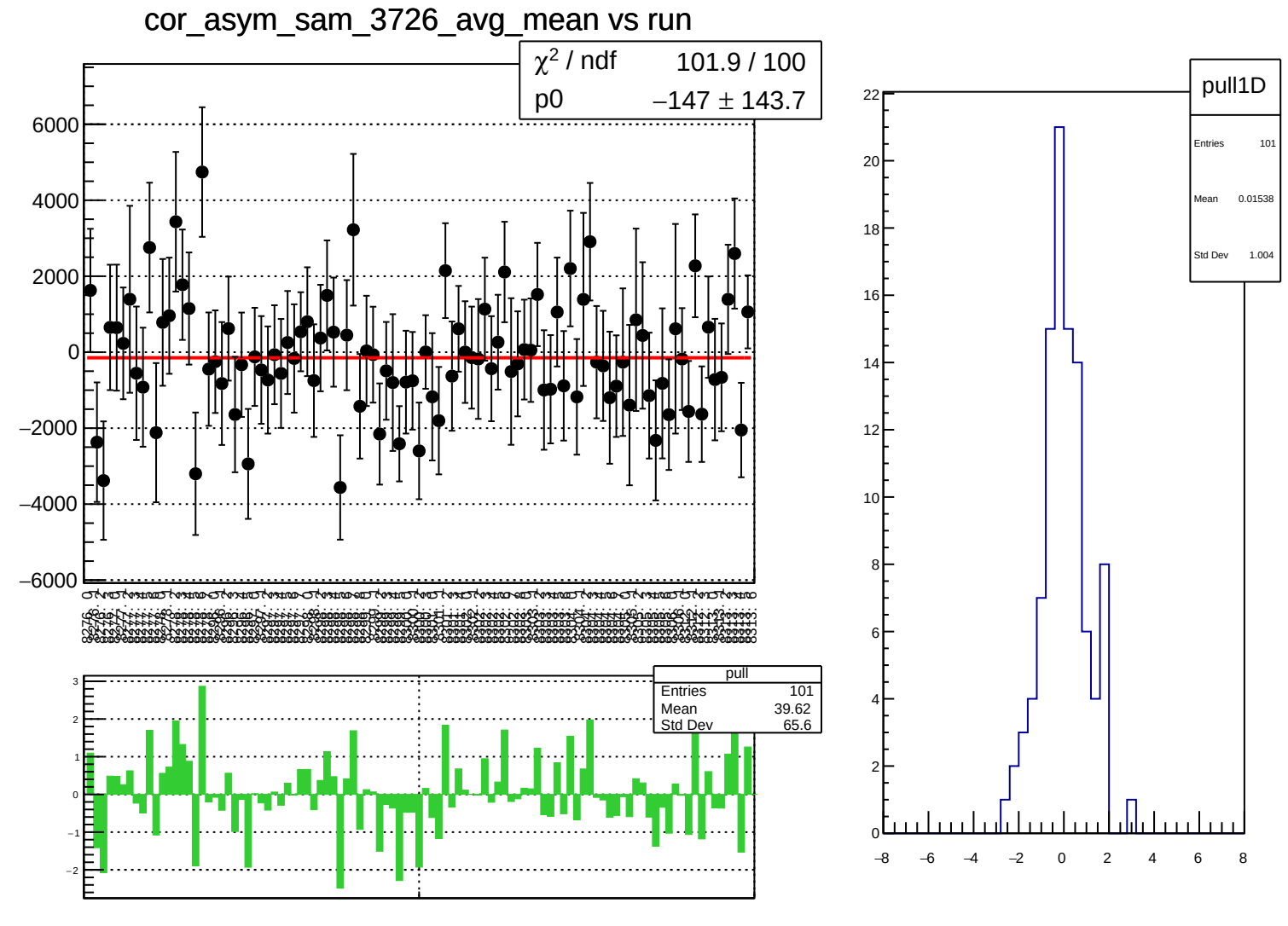

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 101.9 / 100
p0 −147 ± 143.7
pull
Entries 101
Mean 39.59
Std Dev 65.6
pull1D
Entries 101
Mean 0.01538
Std Dev 1.004

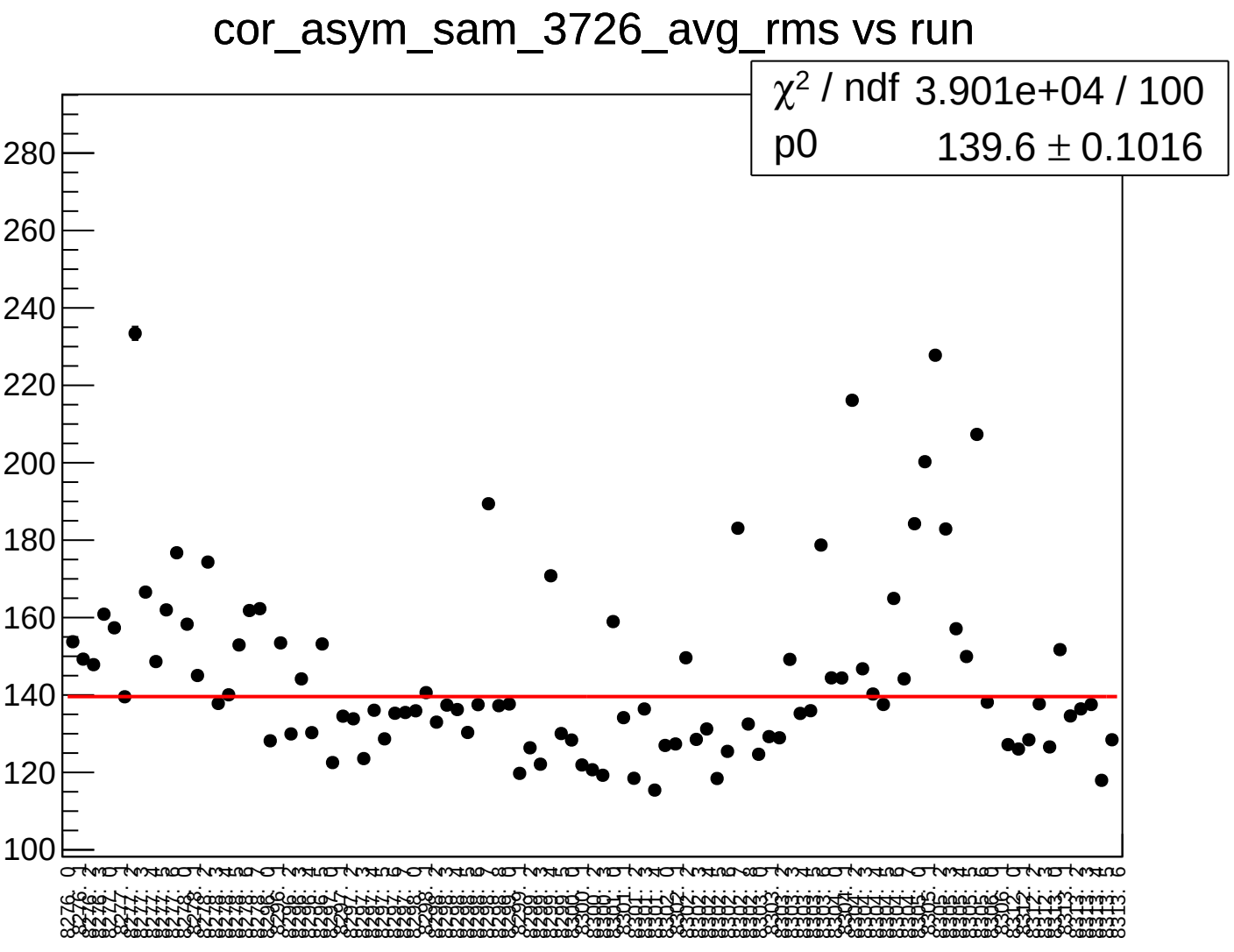

reg_asym_sam_3726_avg_rms vs run
χ^2 / ndf 3.901e+04 / 100
p0 139.6 ± 0.1016
280
260
240
220
200
180
160
140
120
100

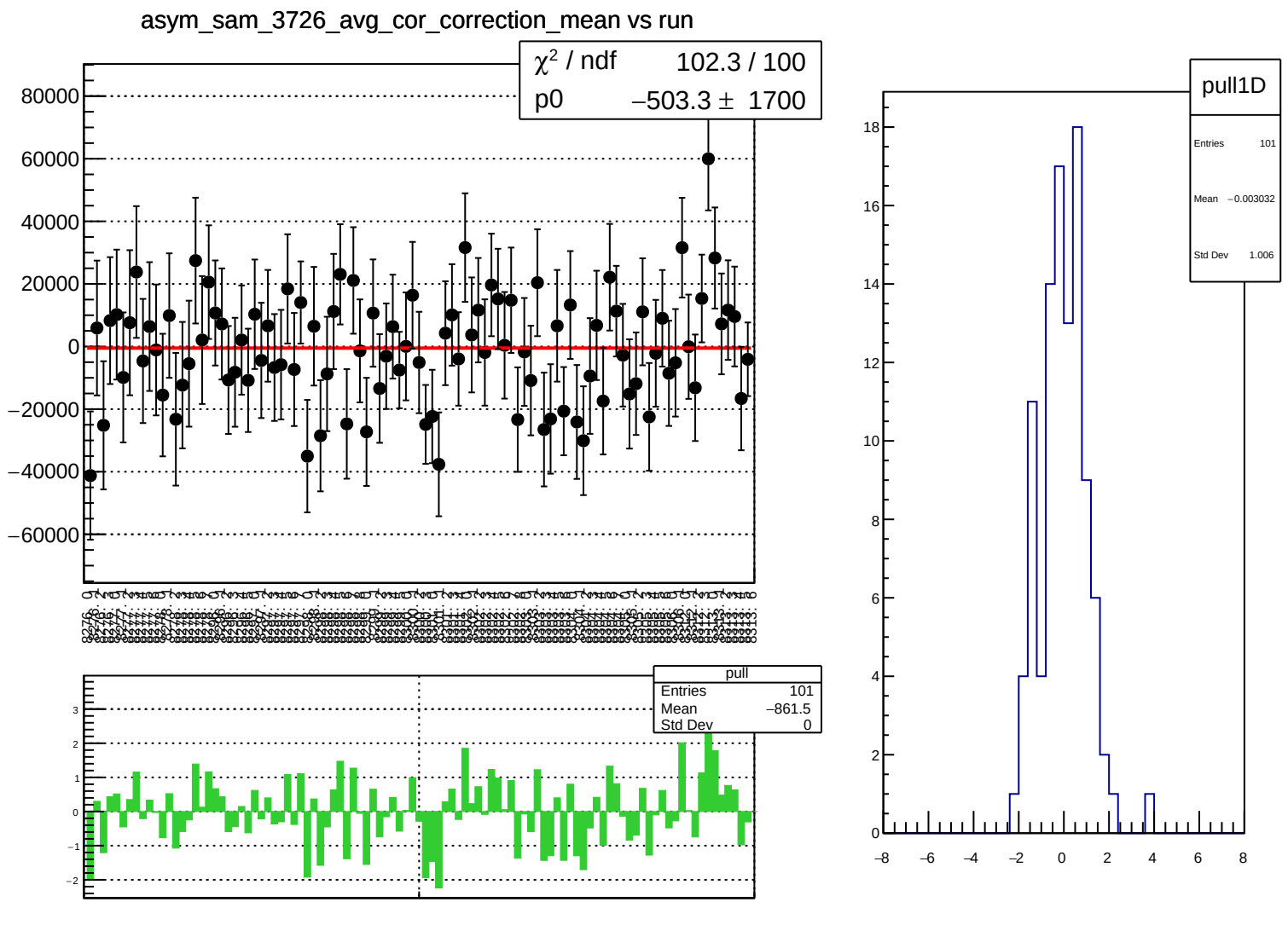

asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 102.3 / 100
p0 −503.3 ± 1700
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −861.4
Std Dev 0
3
2
1
0
−1
−2

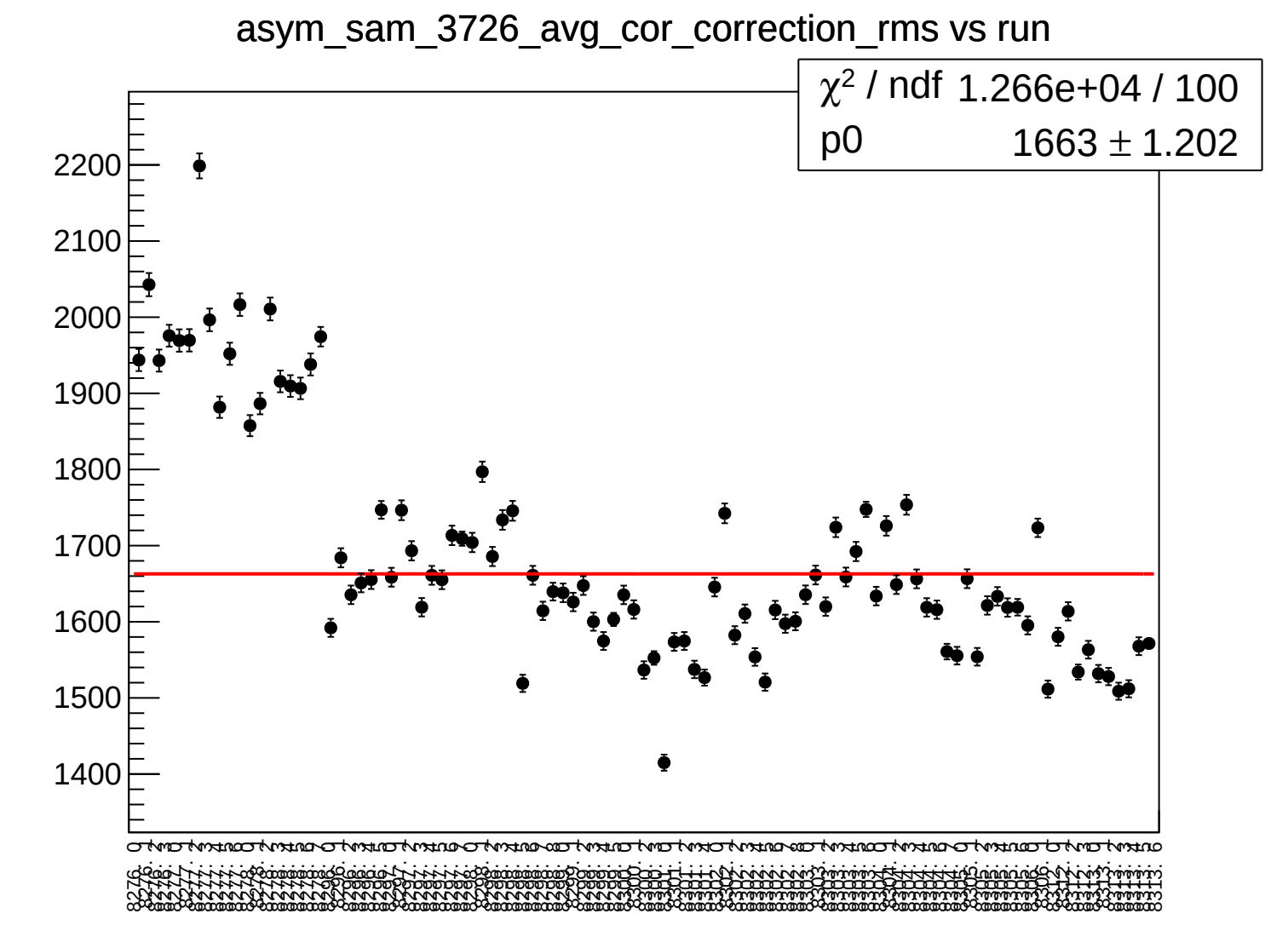

pull1D
Entries 101
Mean −0.003032
Std Dev 1.006
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

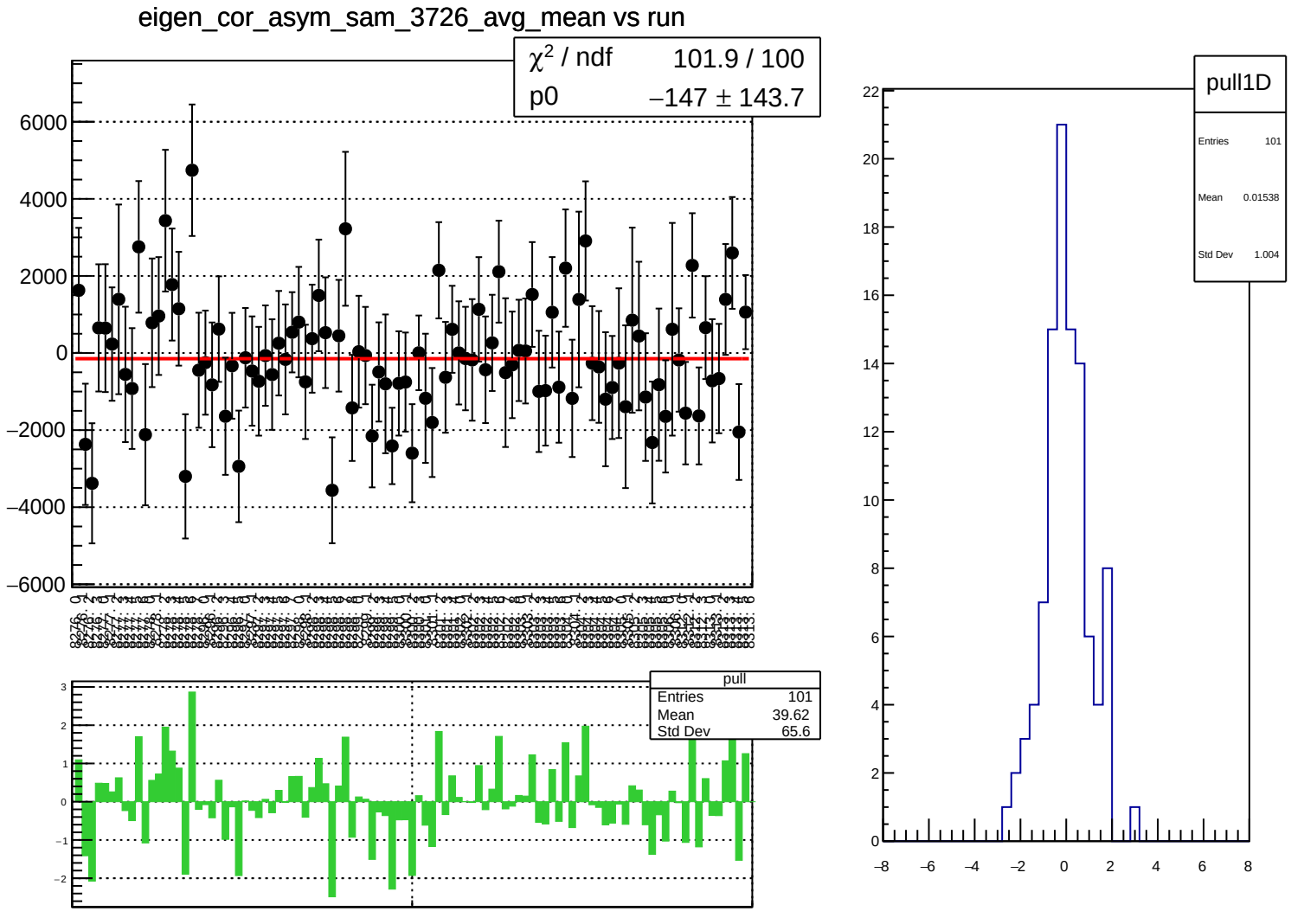

asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 1.266e+04 / 100
p0 1663 ± 1.202
2200
2100
2000
1900
1800
1700
1600
1500
1400

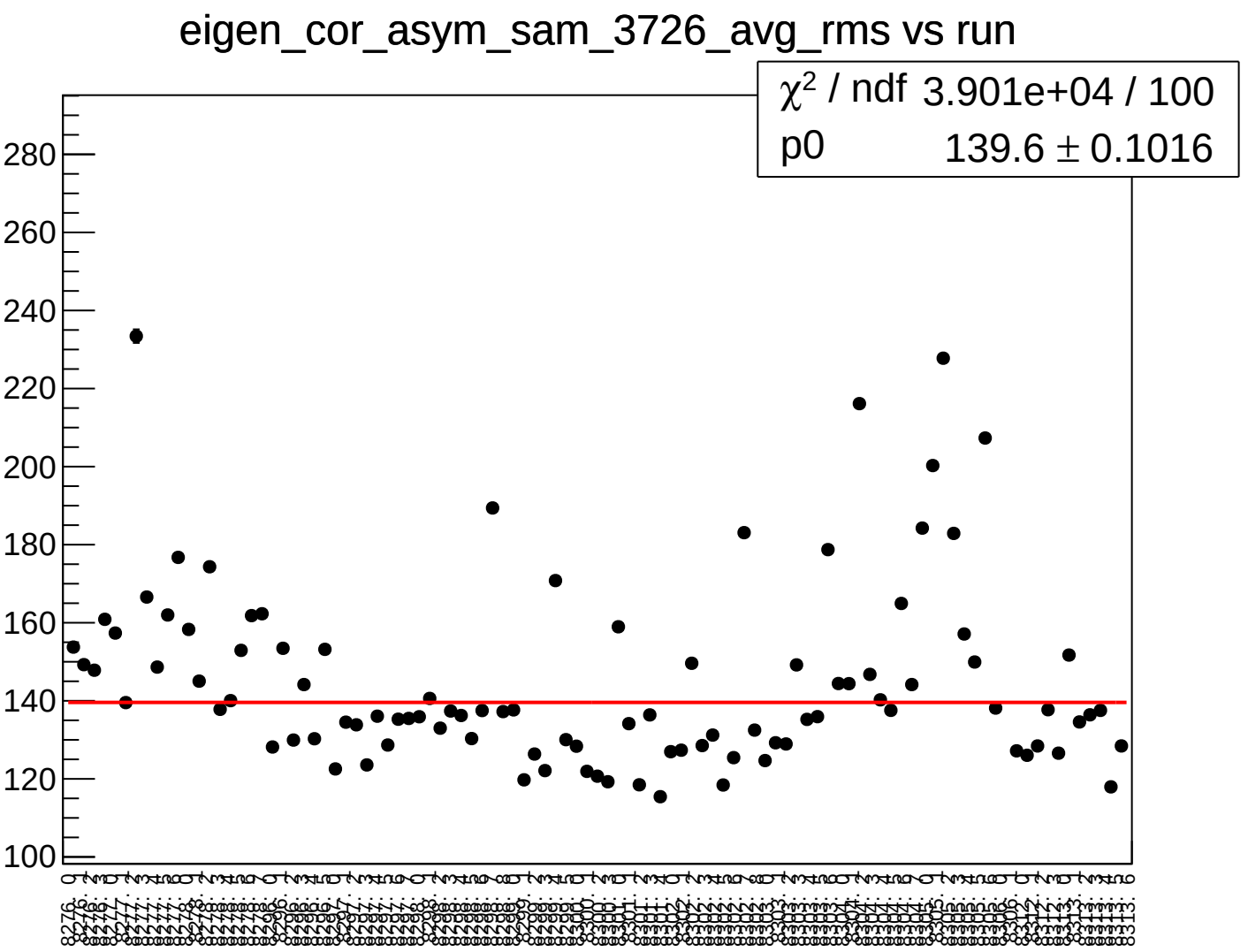

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 101.9 / 100
p0 −147 ± 143.7
pull
Entries 101
Mean 39.62
Std Dev 65.6
pull1D
Entries 101
Mean 0.01538
Std Dev 1.004

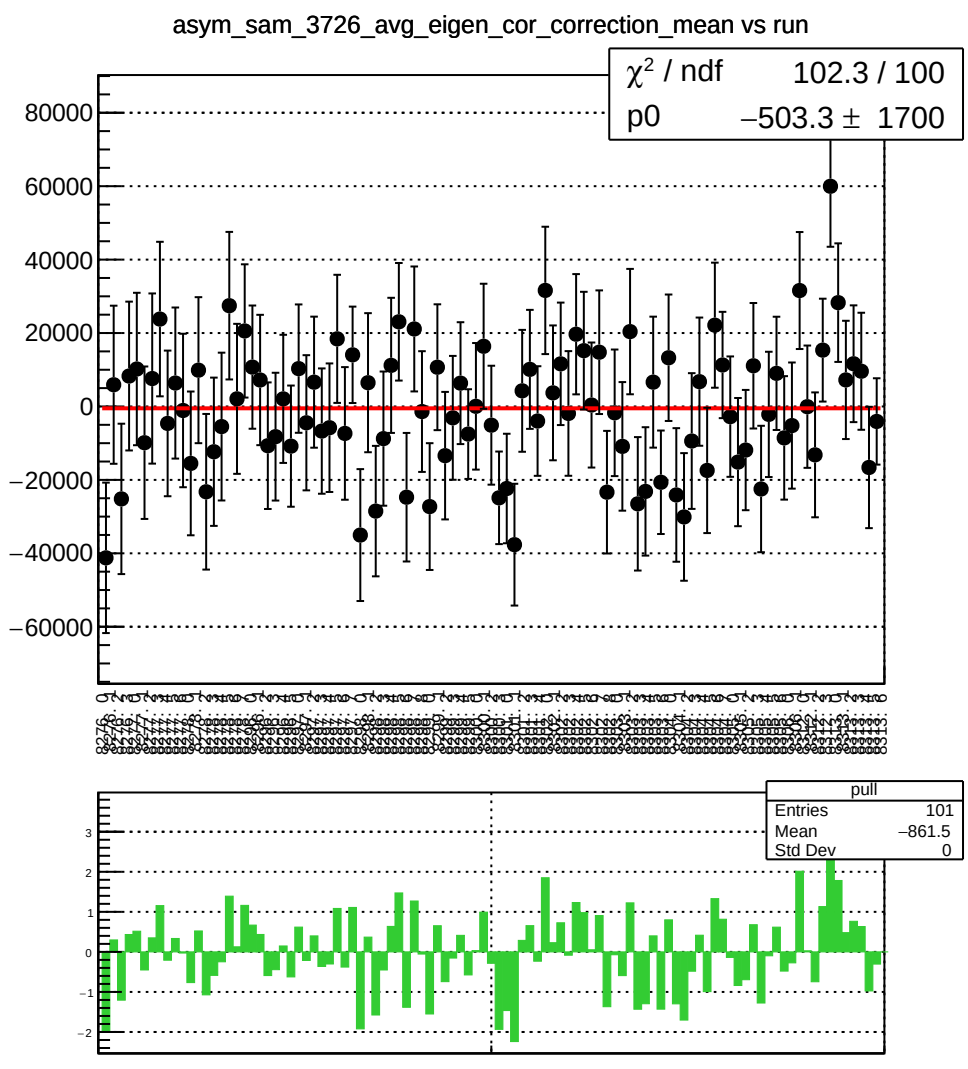

cor_asym_sam_3726_avg_rms vs run
χ² / ndf 3.901e+04 / 100
p0 139.6 ± 0.1016
280
260
240
220
200
180
160
140
120
100

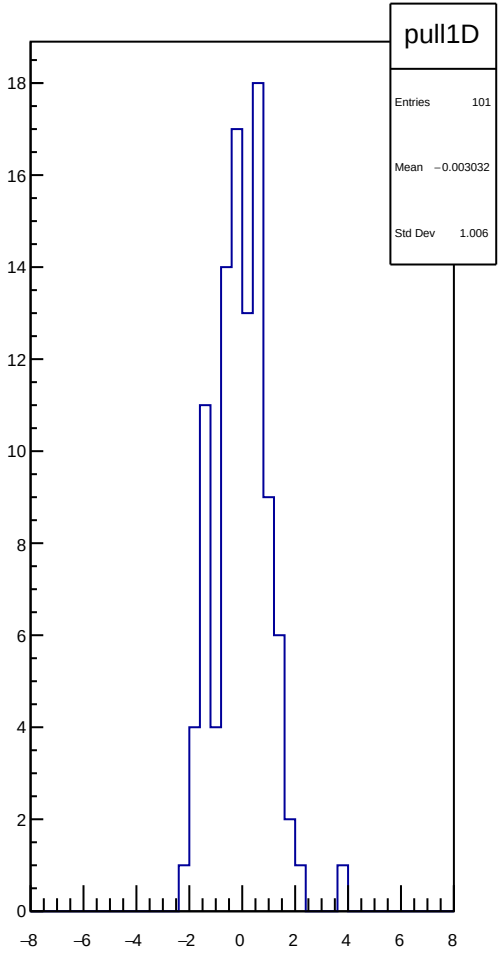

asym_sam_3726_avg_cor_correction_mean vs run
χ² / ndf 102.3 / 100
p0 −503.3 ± 1700
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −861.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.003032
Std Dev 1.006
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

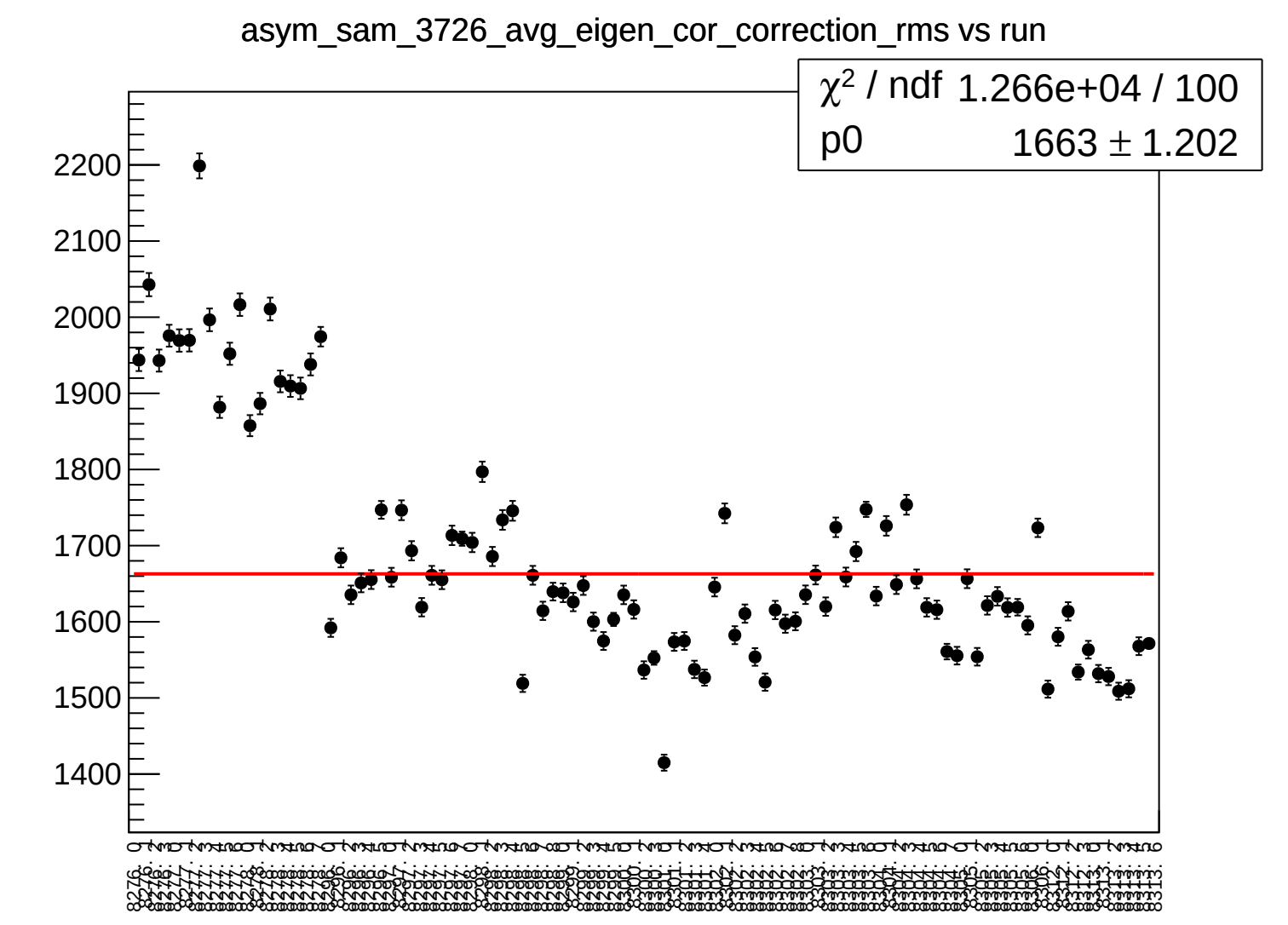

asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 1.266e+04 / 100
p0 1663 ± 1.202
2200
2100
2000
1900
1800
1700
1600
1500
1400

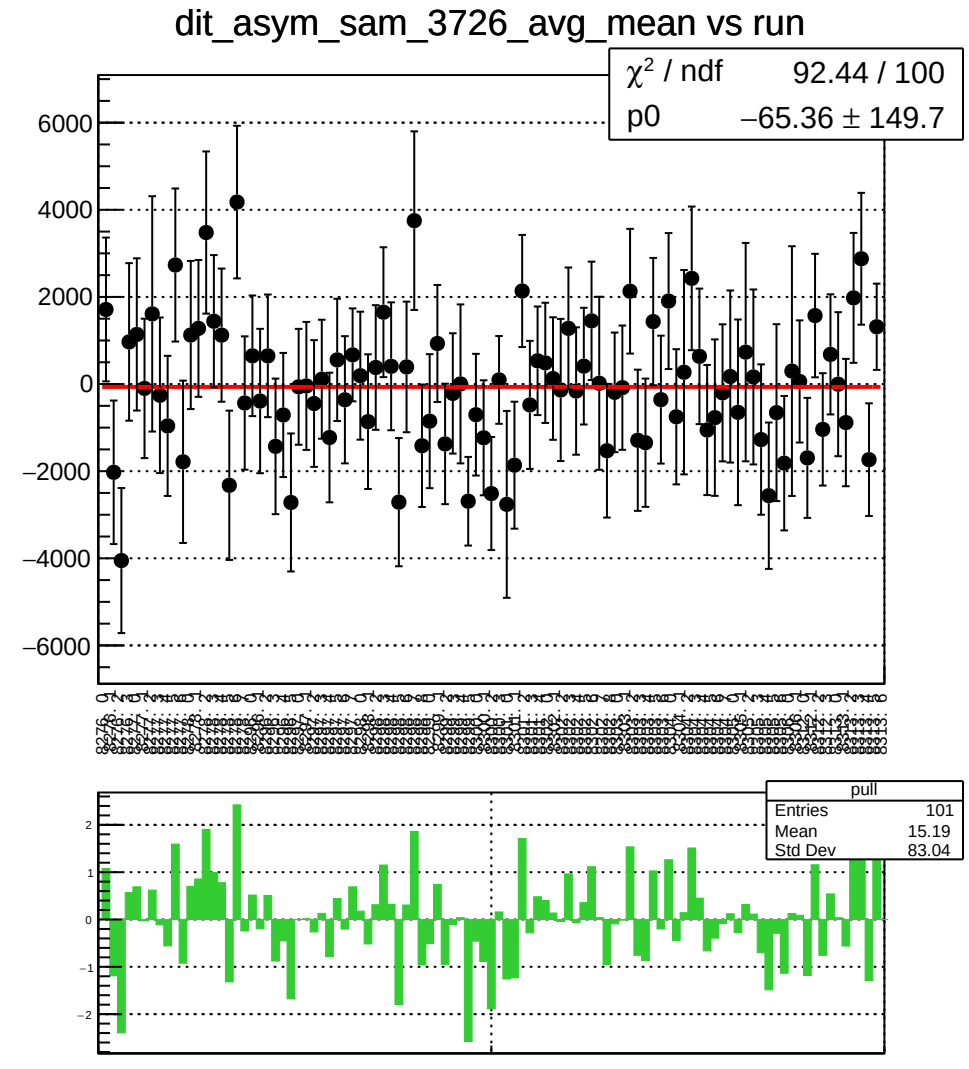

eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 101.9 / 100
p0 −147 ± 143.7
pull
Entries 101
Mean 39.62
Std Dev 65.6
pull1D
Entries 101
Mean 0.01538
Std Dev 1.004

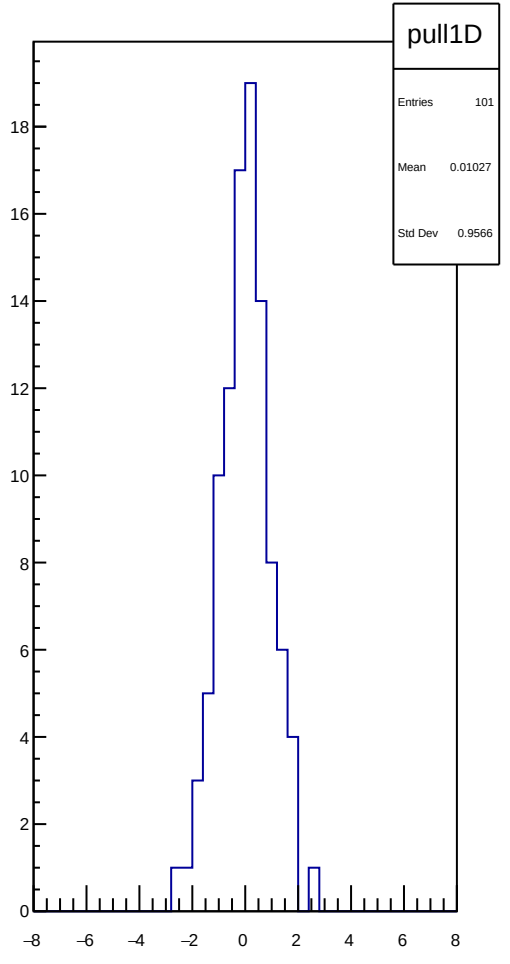

eigen_cor_asym_sam_3726_avg_rms vs run
χ² / ndf 3.901e+04 / 100
p0 139.6 ± 0.1016
280
260
240
220
200
180
160
140
120
100

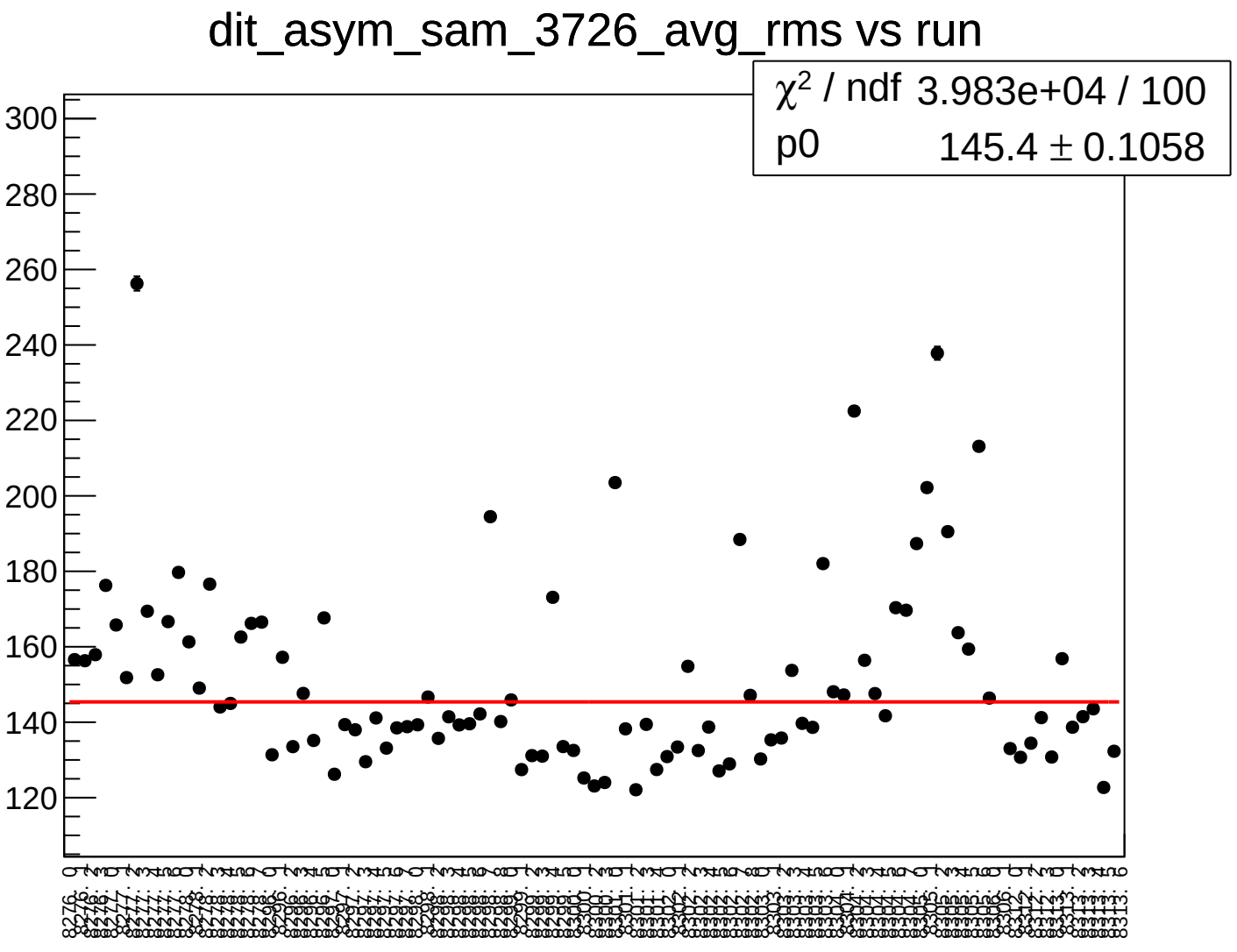

asym_sam_3726_avg_eigen_cor_correction_mean vs run
χ² / ndf 102.3 / 100
p0 −503.3 ± 1700
pull
Entries 101
Mean −861.5
Std Dev 0

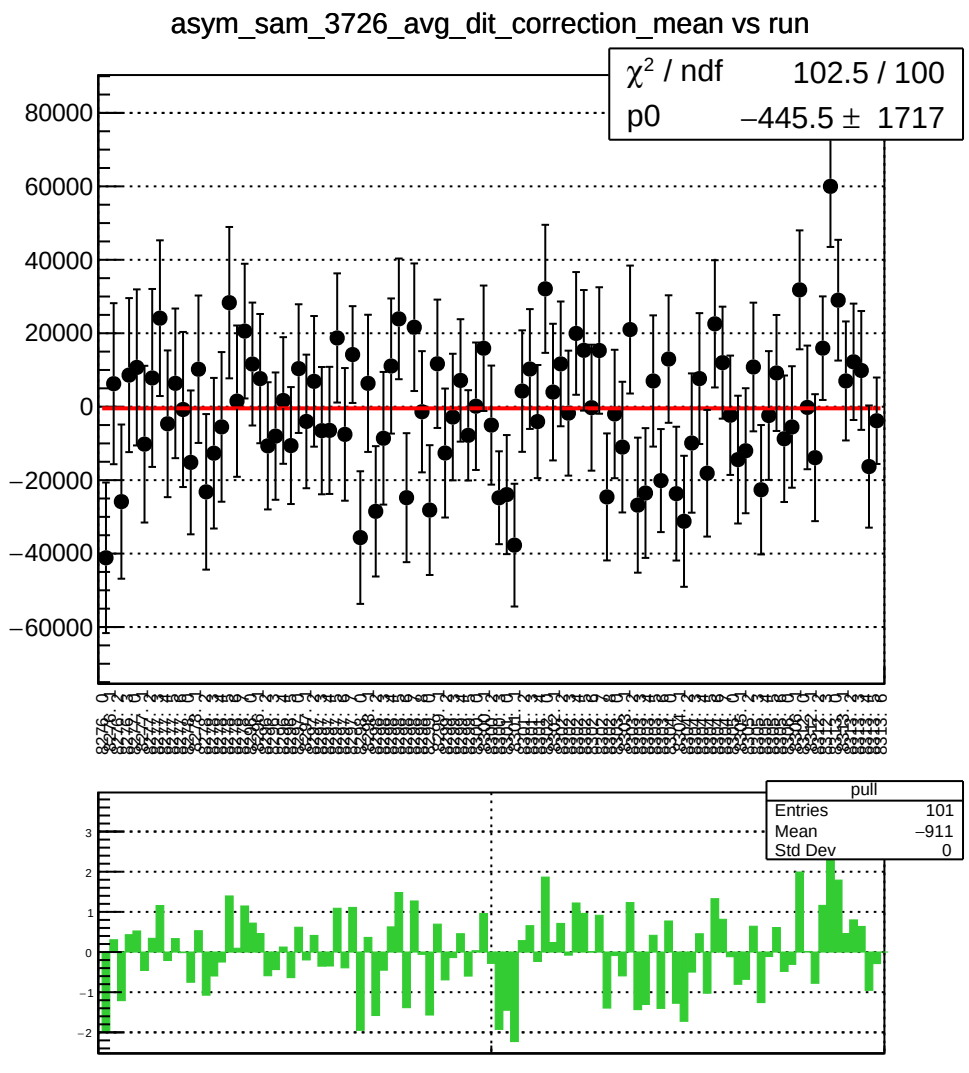

pull1D
Entries 101
Mean −0.003032
Std Dev 1.006

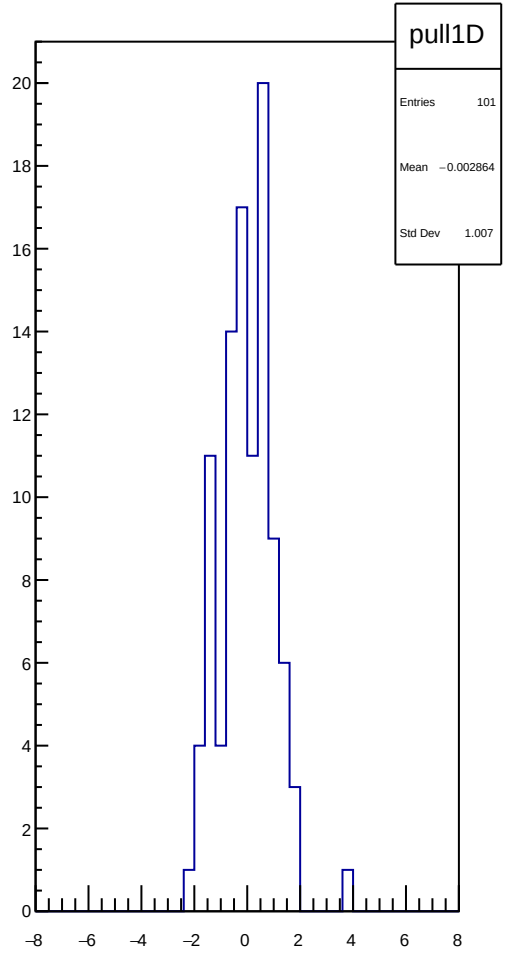

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.266e+04 / 100
p0 1663 ± 1.202
2200
2100
2000
1900
1800
1700
1600
1500
1400

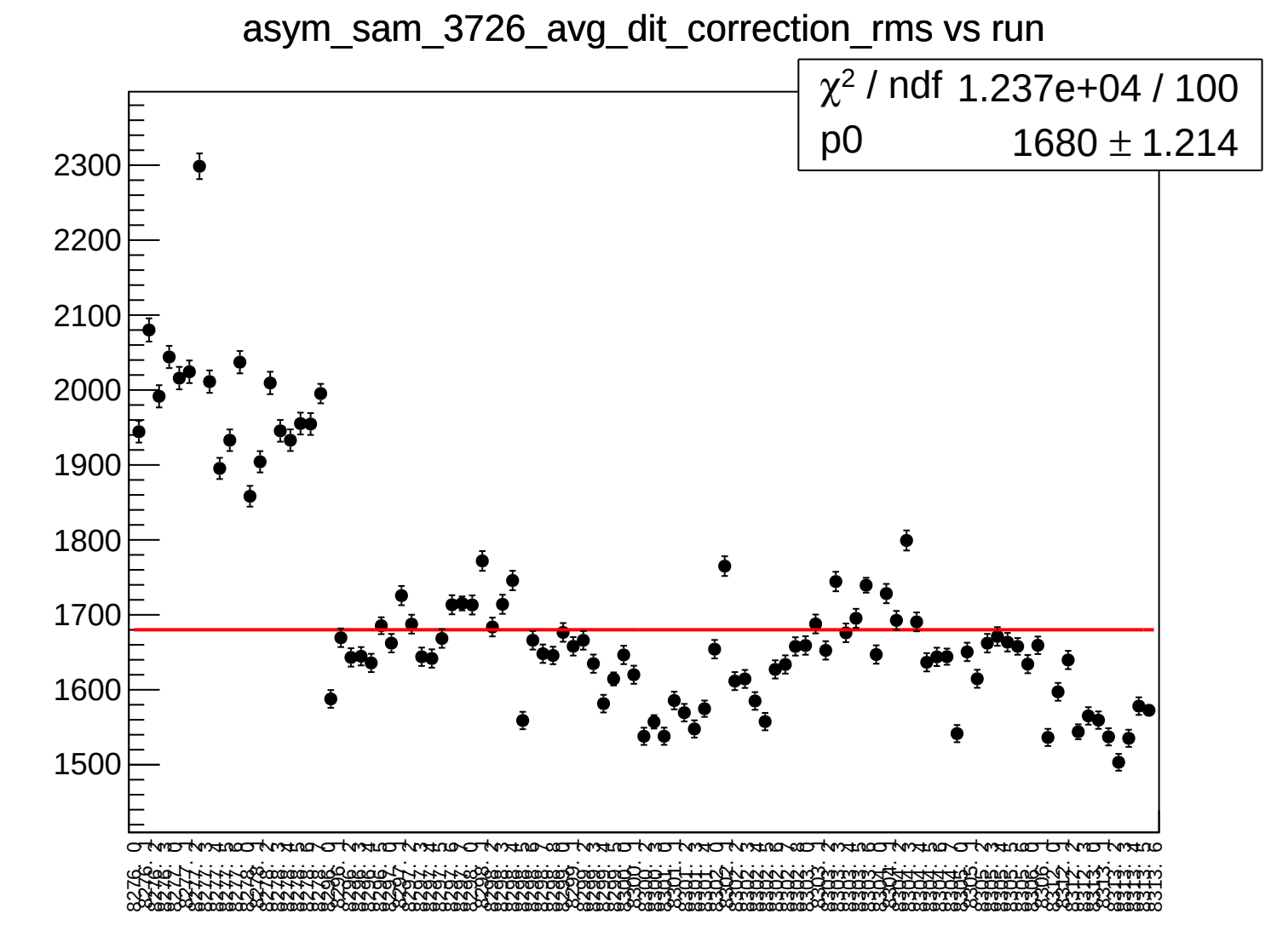

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 92.44 / 100
p0 −65.36 ± 149.7
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 101
Mean 15.19
Std Dev 83.04
2
1
0
−1
−2

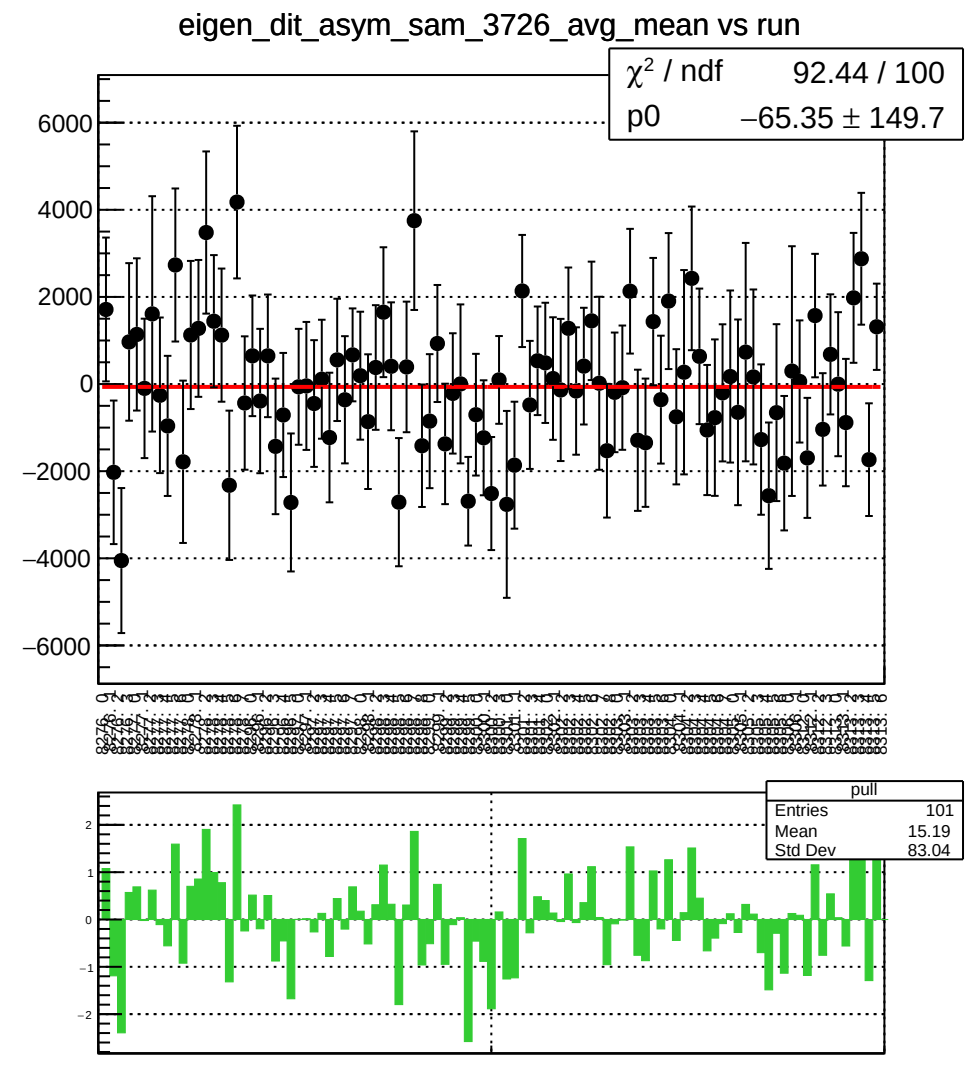

pull1D
Entries 101
Mean 0.01027
Std Dev 0.9566
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

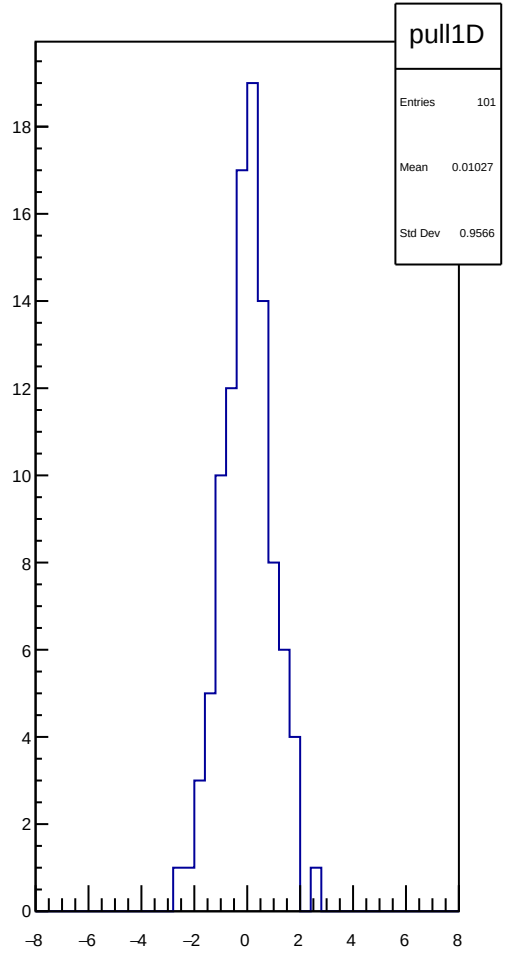

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 3.983e+04 / 100
p0 145.4 ± 0.1058
300
280
260
240
220
200
180
160
140
120

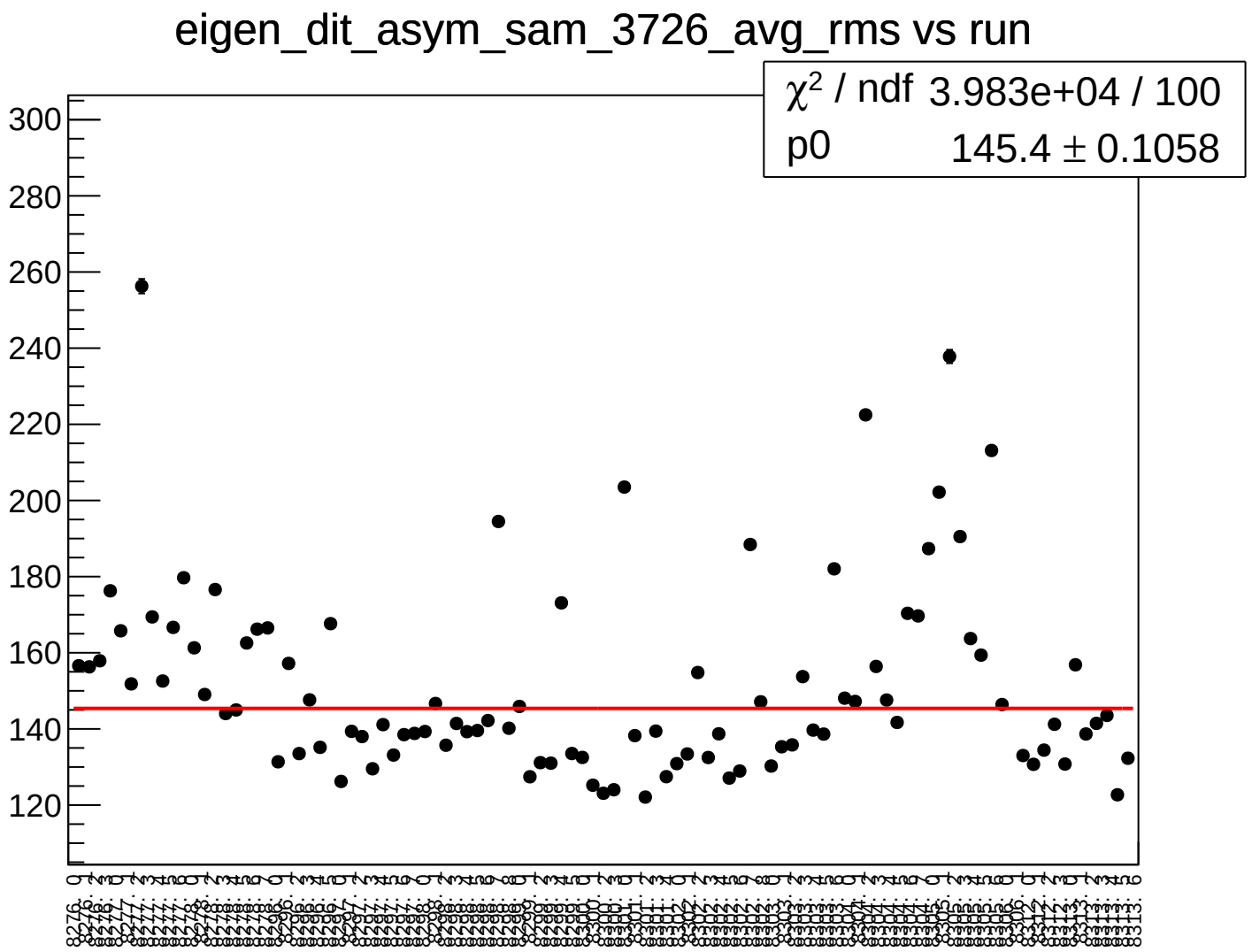

asym_sam_3726_avg_dit_correction_mean vs run
χ² / ndf 102.5 / 100
p0 −445.5 ± 1717
pull
Entries 101
Mean −911
Std Dev 0

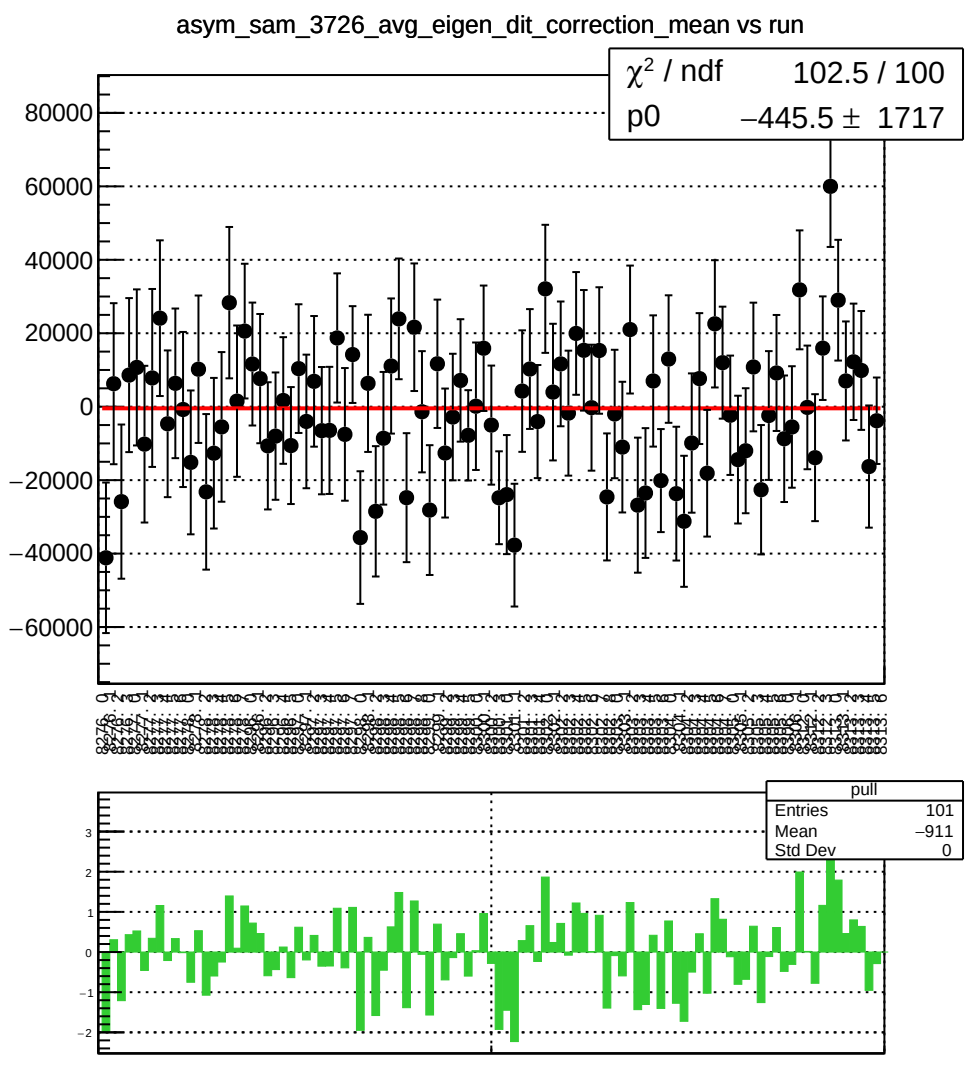

pull1D
Entries 101
Mean −0.002864
Std Dev 1.007

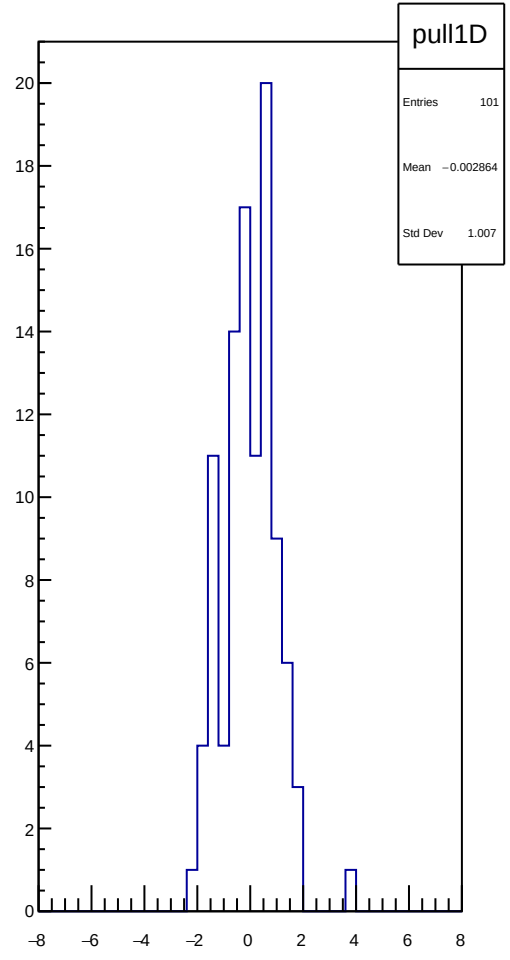

asym_sam_3726_avg_dit_correction_rms vs run
χ² / ndf 1.237e+04 / 100
p0 1680 ± 1.214
2300
2200
2100
2000
1900
1800
1700
1600
1500

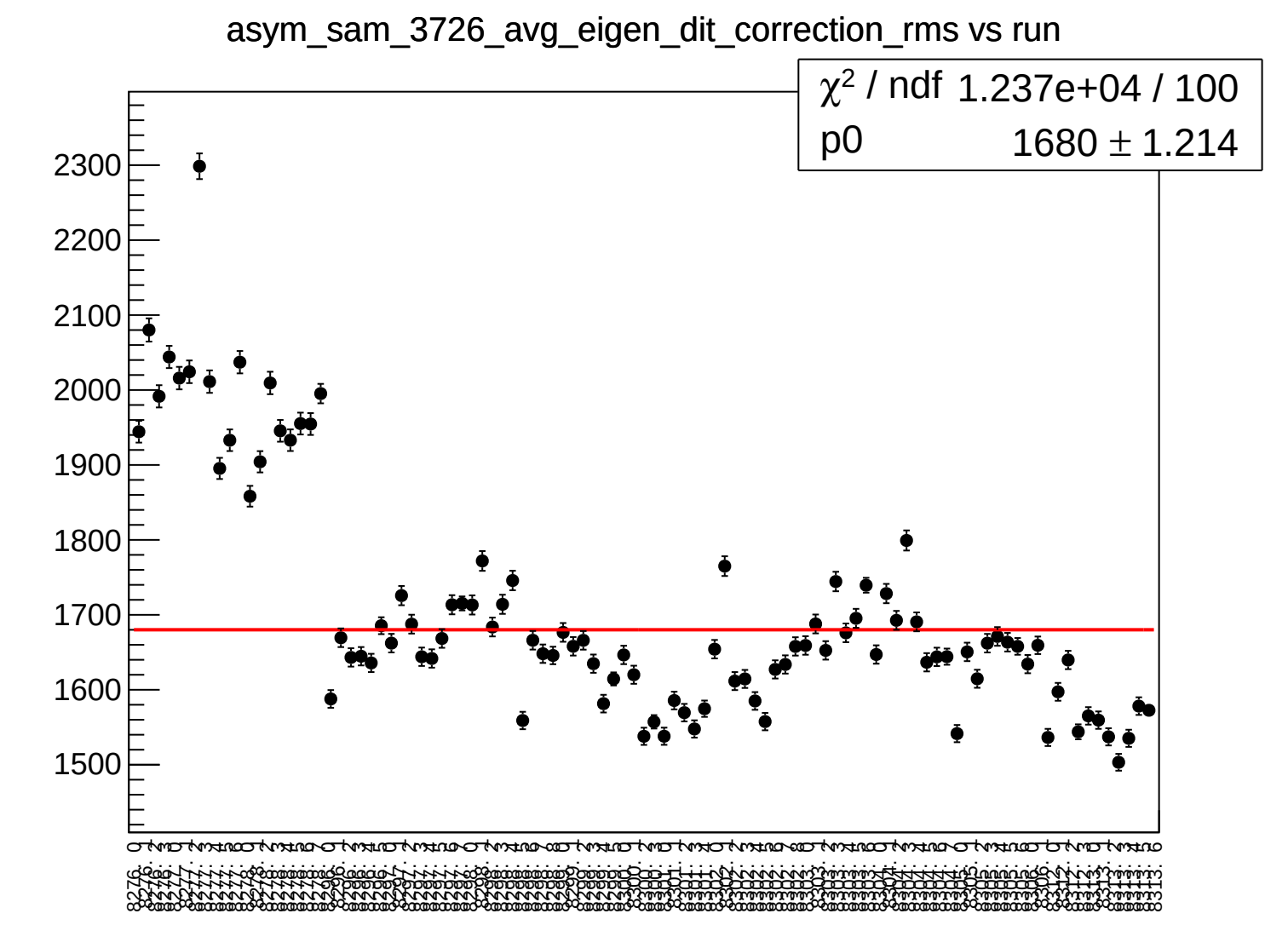

eigen_dit_asym_sam_3726_avg_mean vs run
χ² / ndf 92.44 / 100
p0 −65.35 ± 149.7
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 101
Mean 15.19
Std Dev 83.04
2
1
0
−1
−2

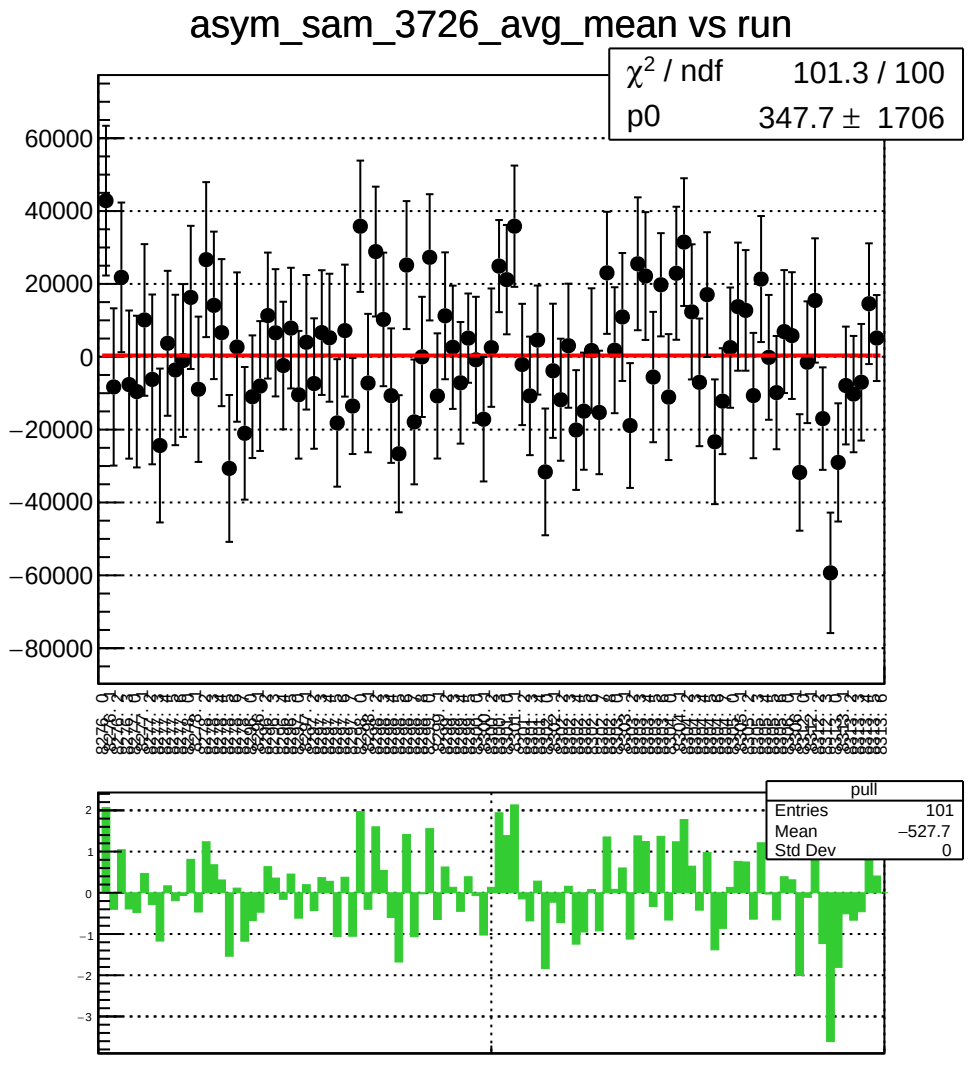

pull1D
Entries 101
Mean 0.01027
Std Dev 0.9566
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

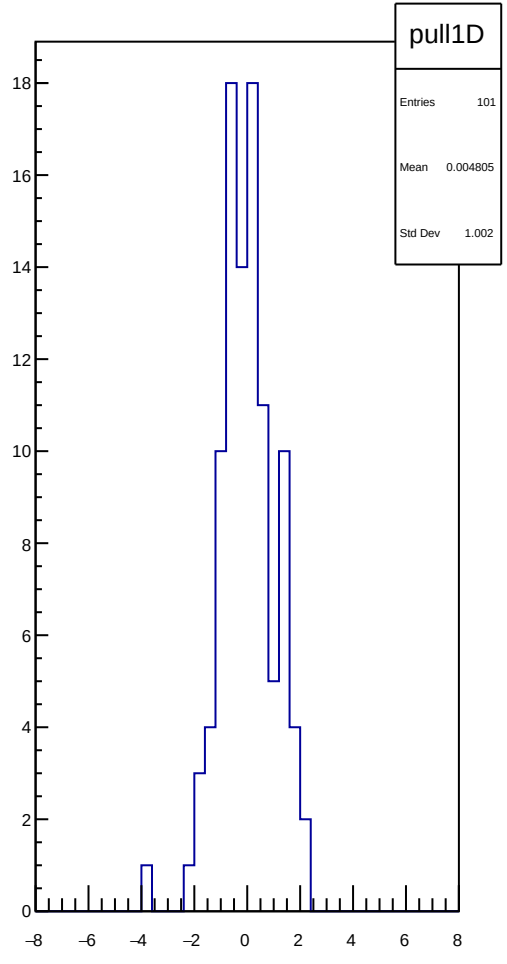

eigen_dit_asym_sam_3726_avg_rms vs run
χ² / ndf 3.983e+04 / 100
p0 145.4 ± 0.1058
300
280
260
240
220
200
180
160
140
120

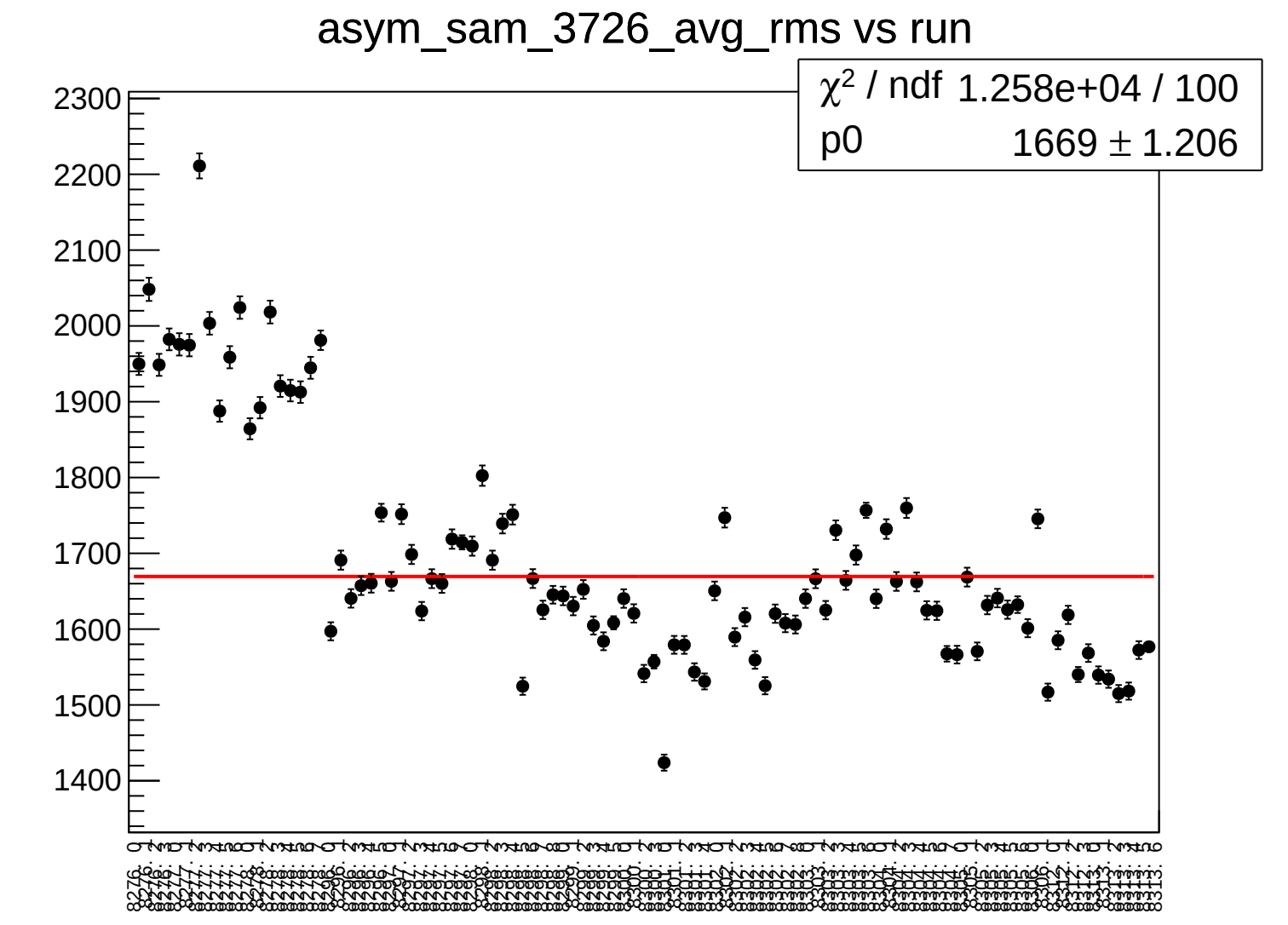

asym_sam_3726_avg_eigen_dit_correction_mean vs run
χ² / ndf 102.5 / 100
p0 −445.5 ± 1717
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −911
Std Dev 0
3
2
1
0
−1
−2

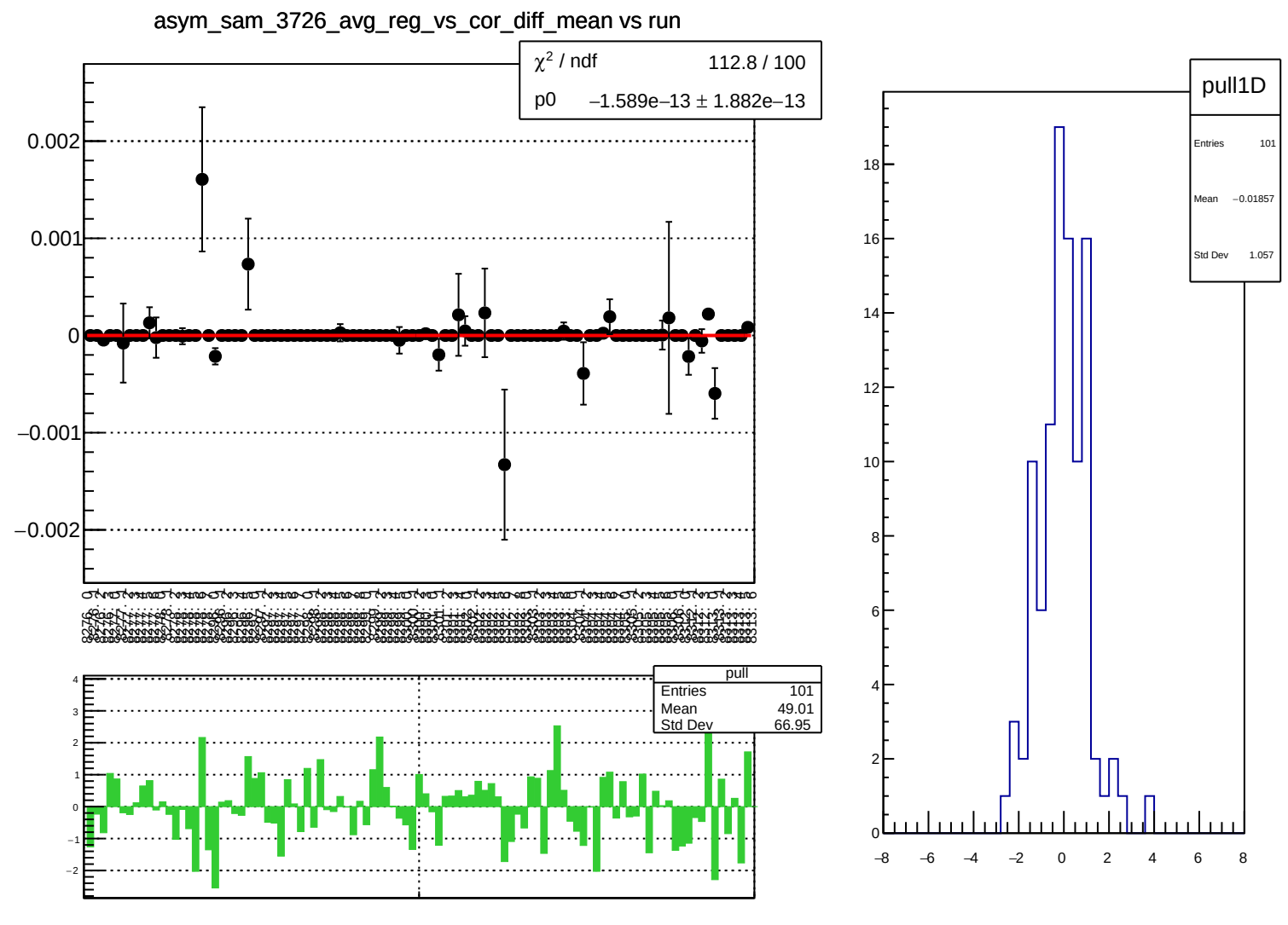

pull1D
Entries 101
Mean −0.002864
Std Dev 1.007
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

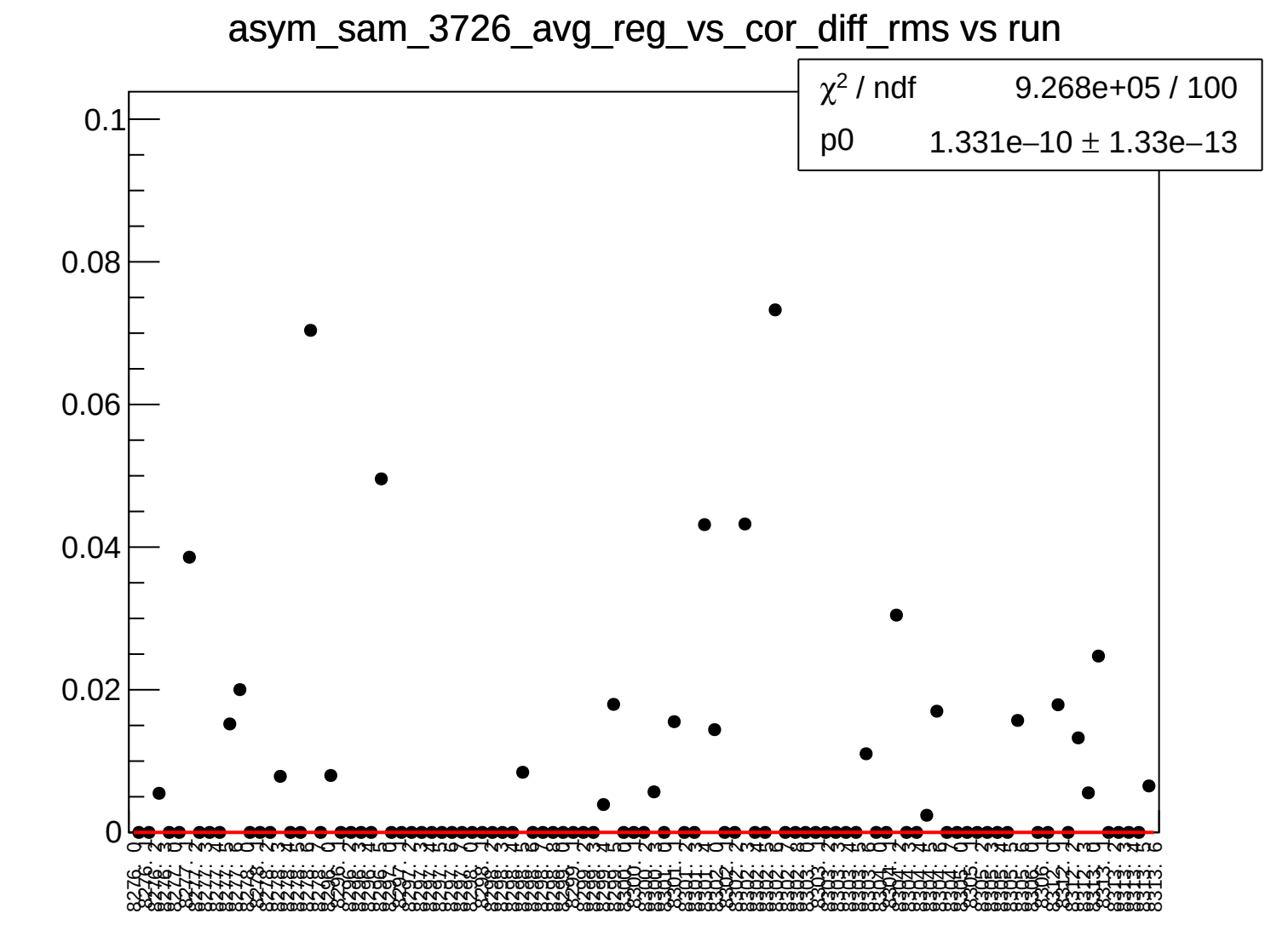

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.237e+04 / 100
p0 1680 ± 1.214
2300
2200
2100
2000
1900
1800
1700
1600
1500

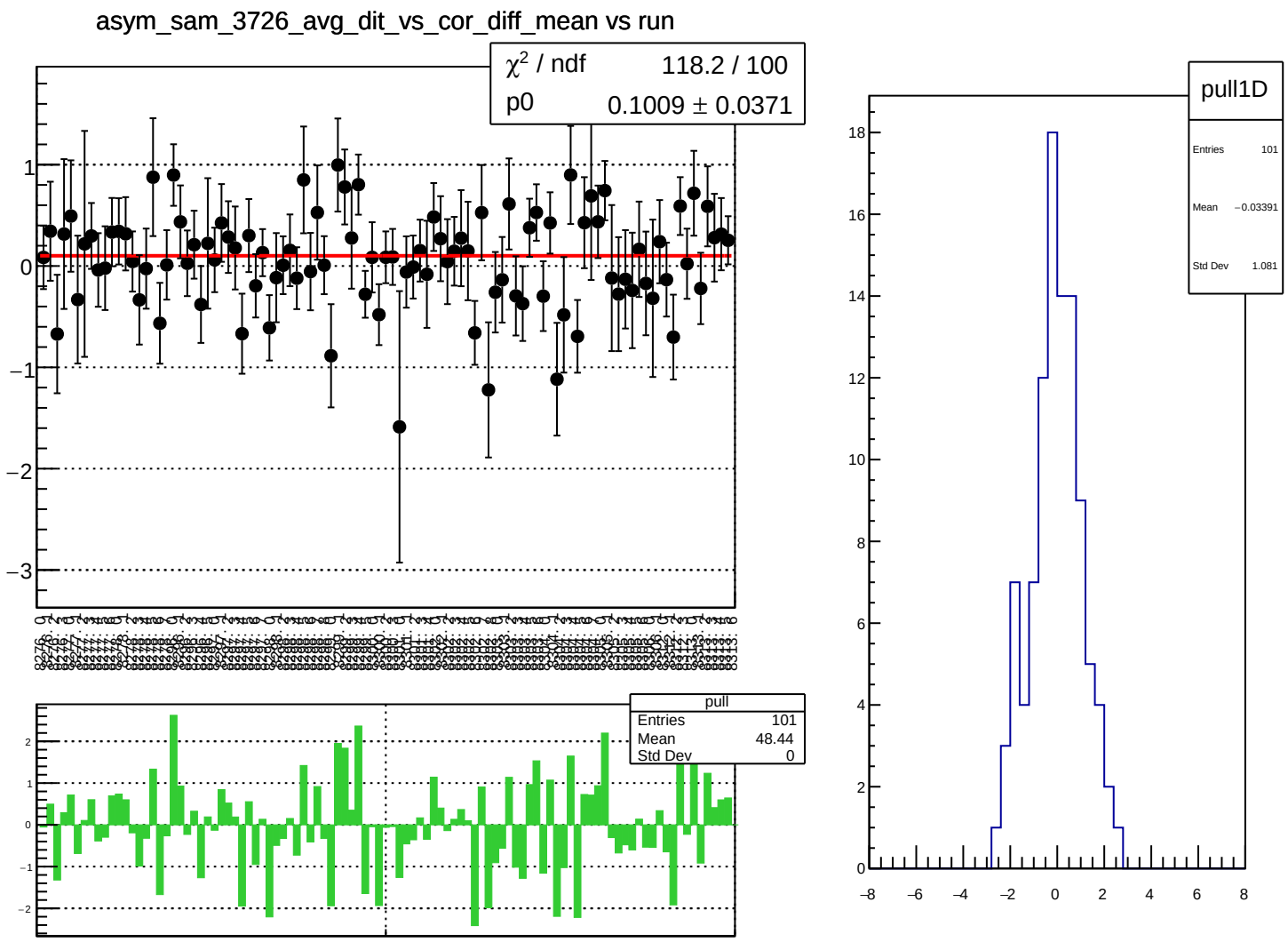

asym_sam_3726_avg_mean vs run
χ² / ndf 101.3 / 100
p0 347.7 ± 1706
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 101
Mean −527.7
Std Dev 0
2
1
0
−1
−2
−3

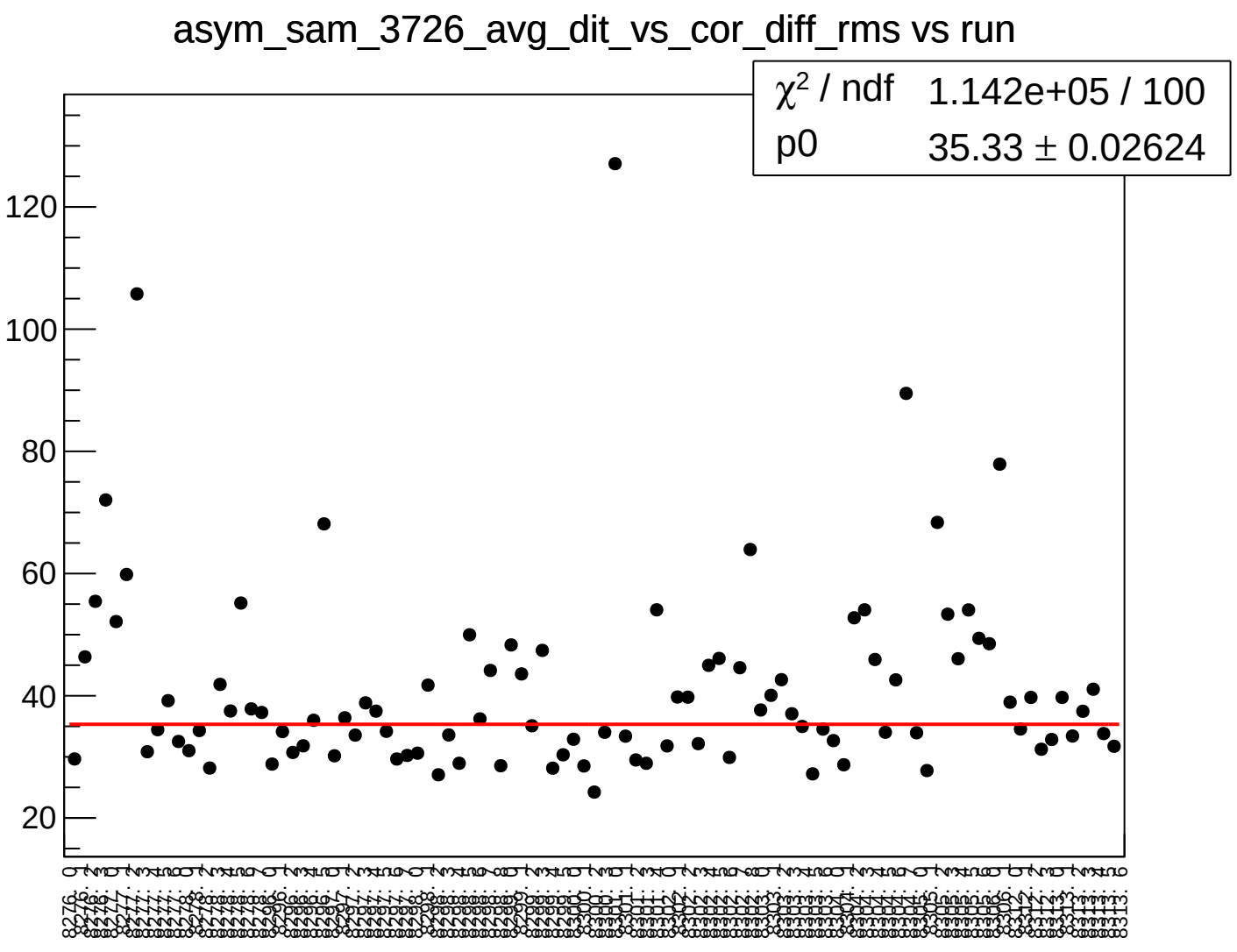

pull1D
Entries 101
Mean 0.004805
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

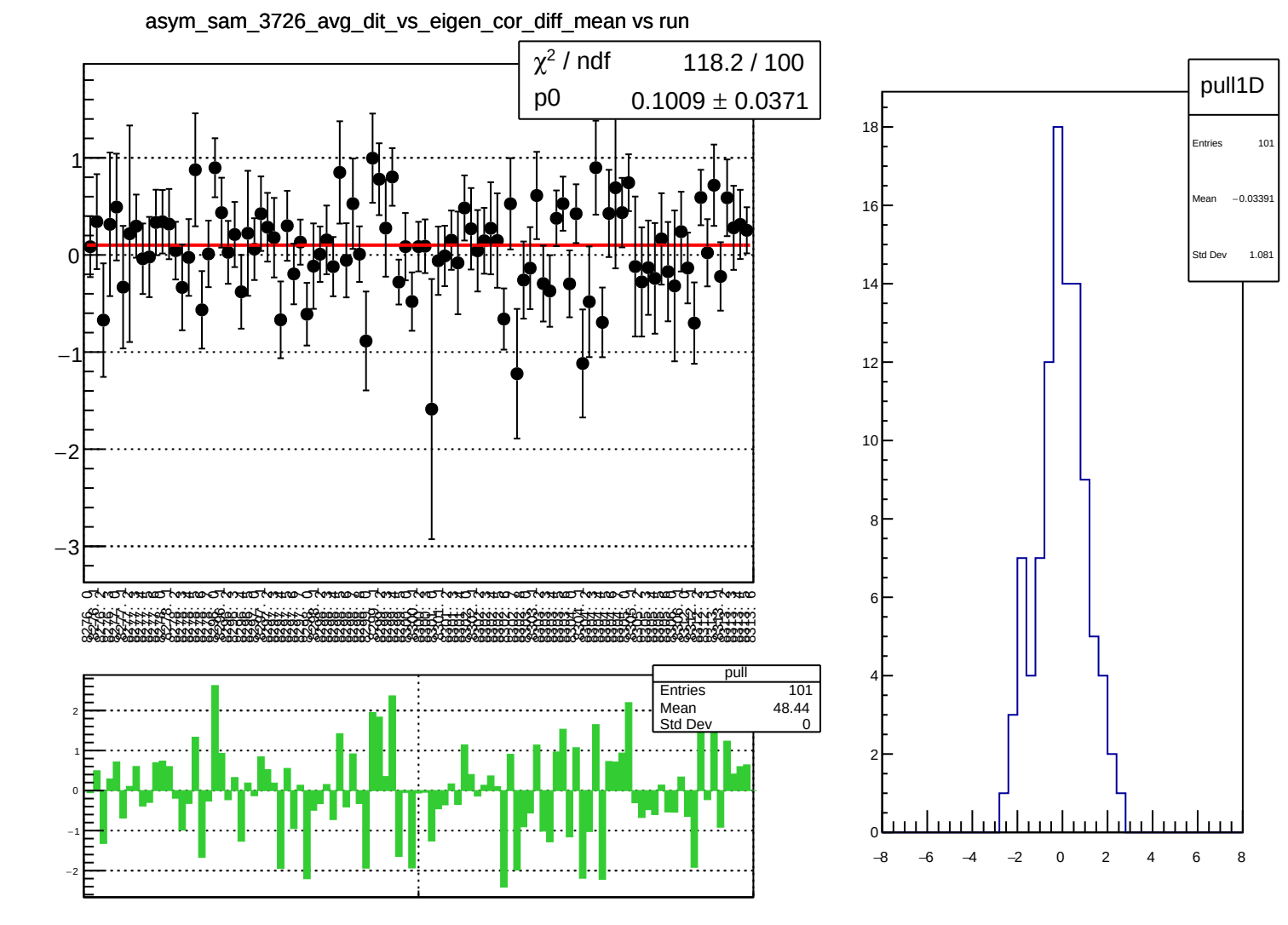

asym_sam_3726_avg_rms vs run
χ² / ndf 1.258e+04 / 100
p0 1669 ± 1.206
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400

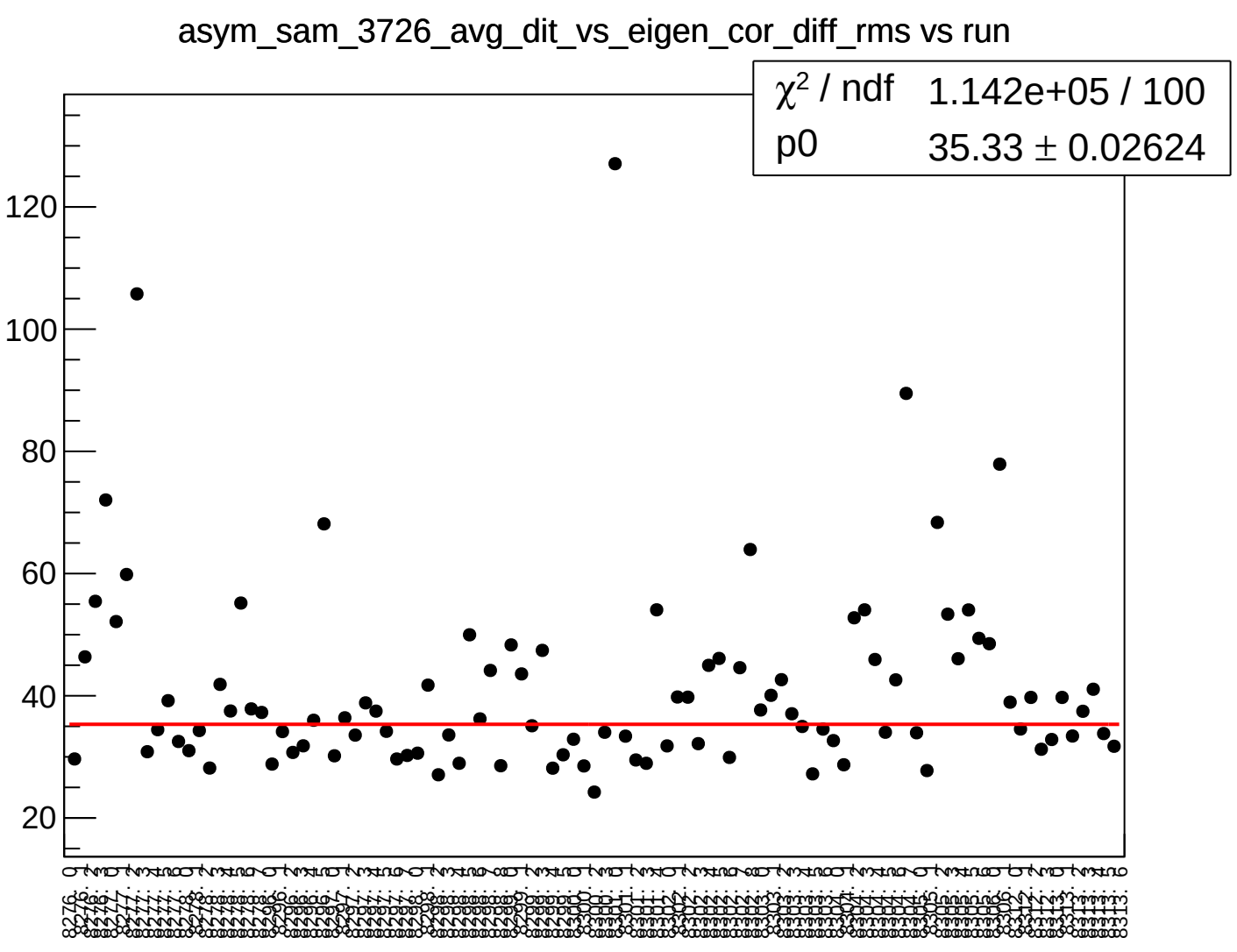

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 112.8 / 100
p0 −1.589e−13 ± 1.882e−13
0.002
0.001
0
−0.001
−0.002
pull
Entries 101
Mean 49.01
Std Dev 66.95
4
3
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.01857
Std Dev 1.057
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

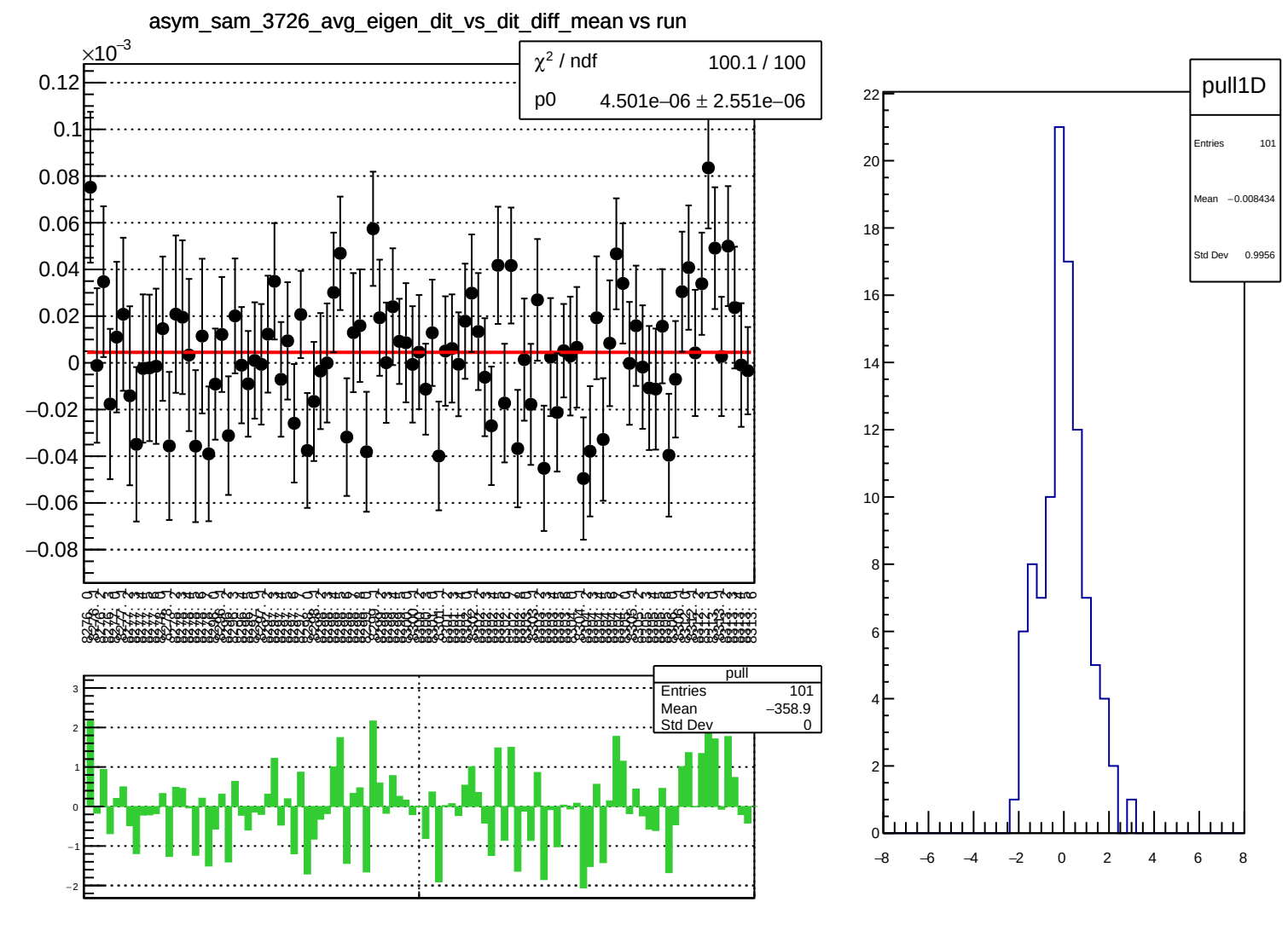

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.268e+05 / 100
p0 1.331e−10 ± 1.33e−13
0.1
0.08
0.06
0.04
0.02
0

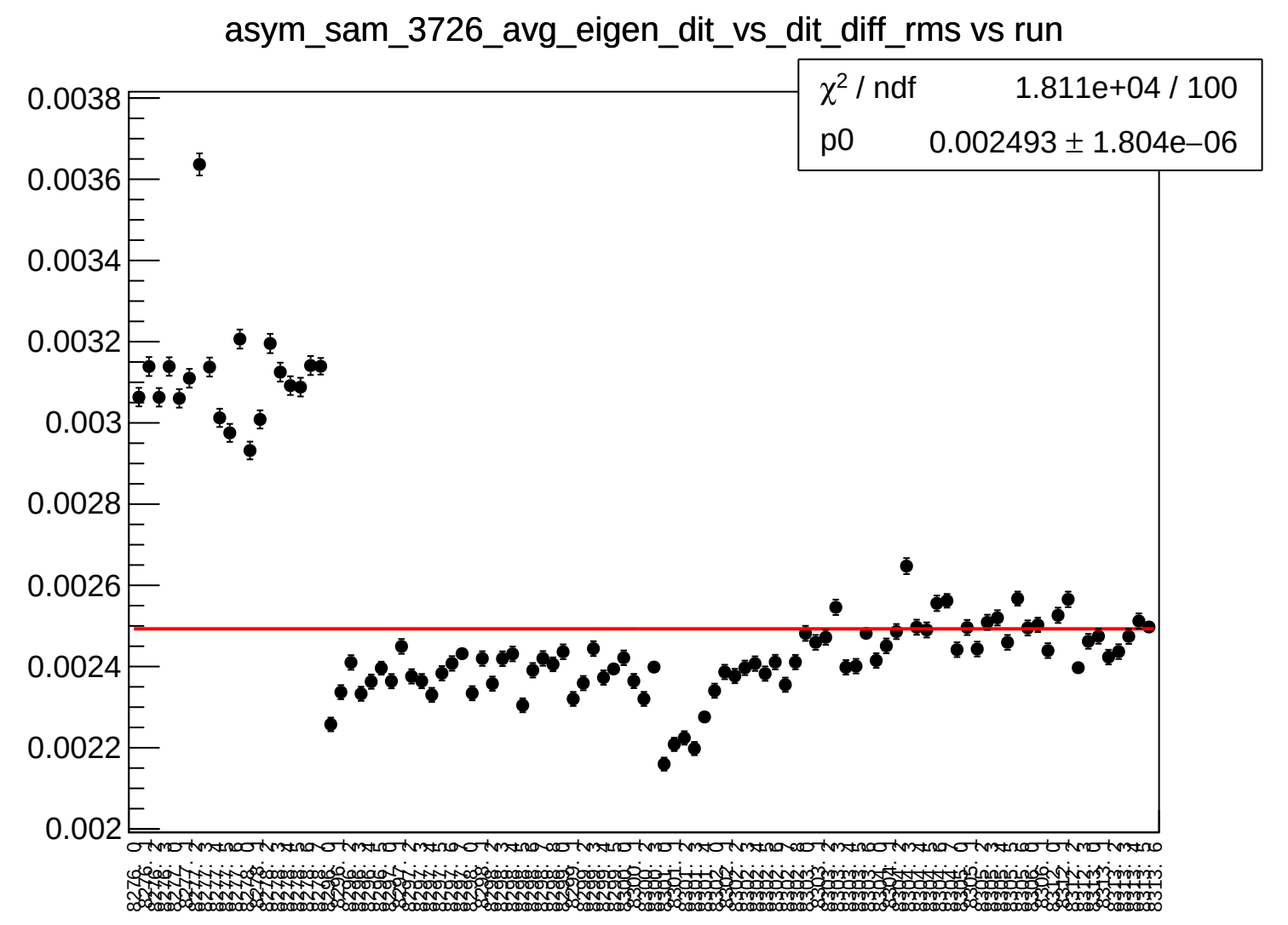

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 118.2 / 100
p0 0.1009 ± 0.0371
pull
Entries 101
Mean 48.44
Std Dev 0
pull1D
Entries 101
Mean −0.03391
Std Dev 1.081

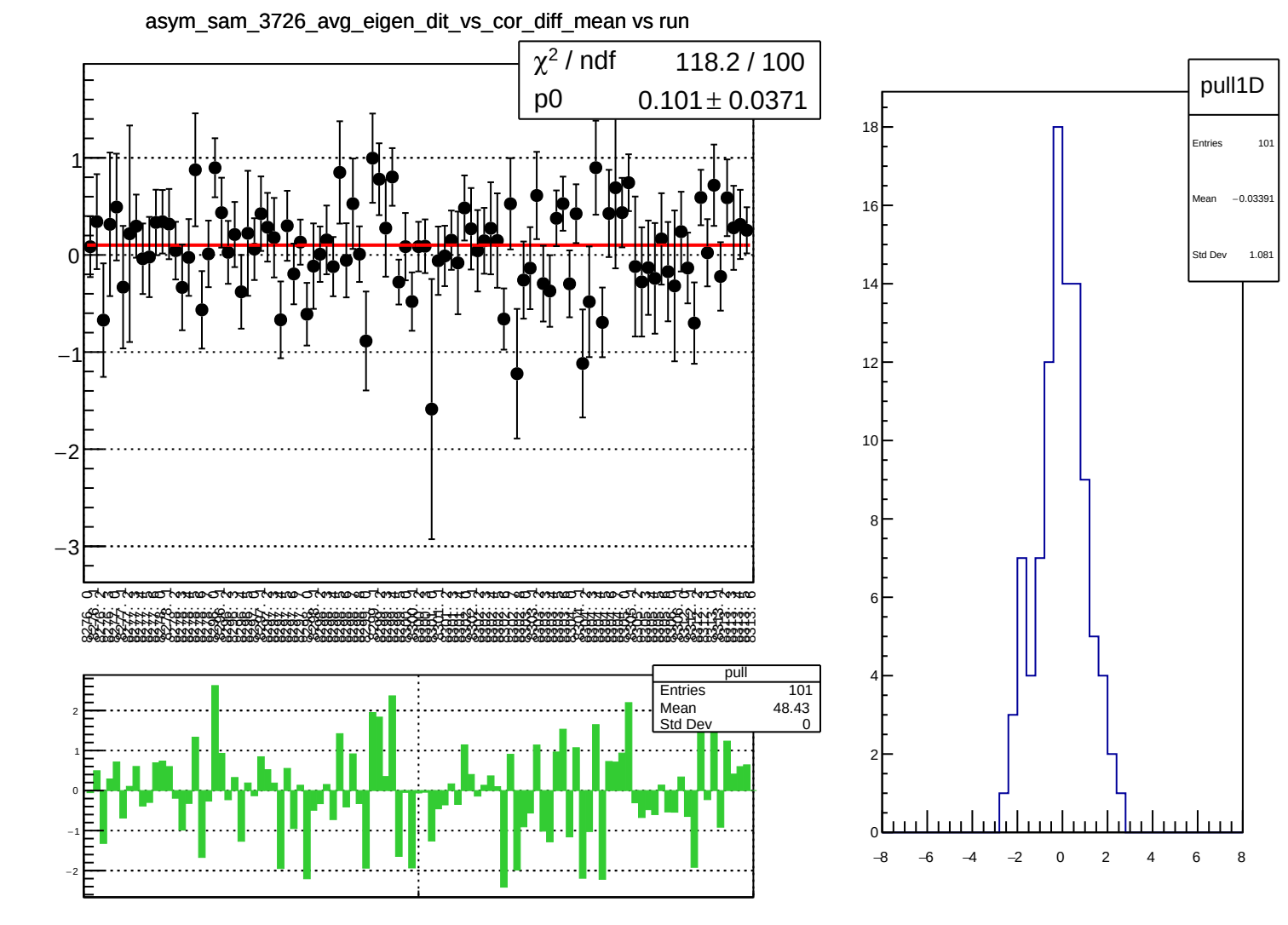

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.142e+05 / 100
p0 35.33 ± 0.02624
120
100
80
60
40
20

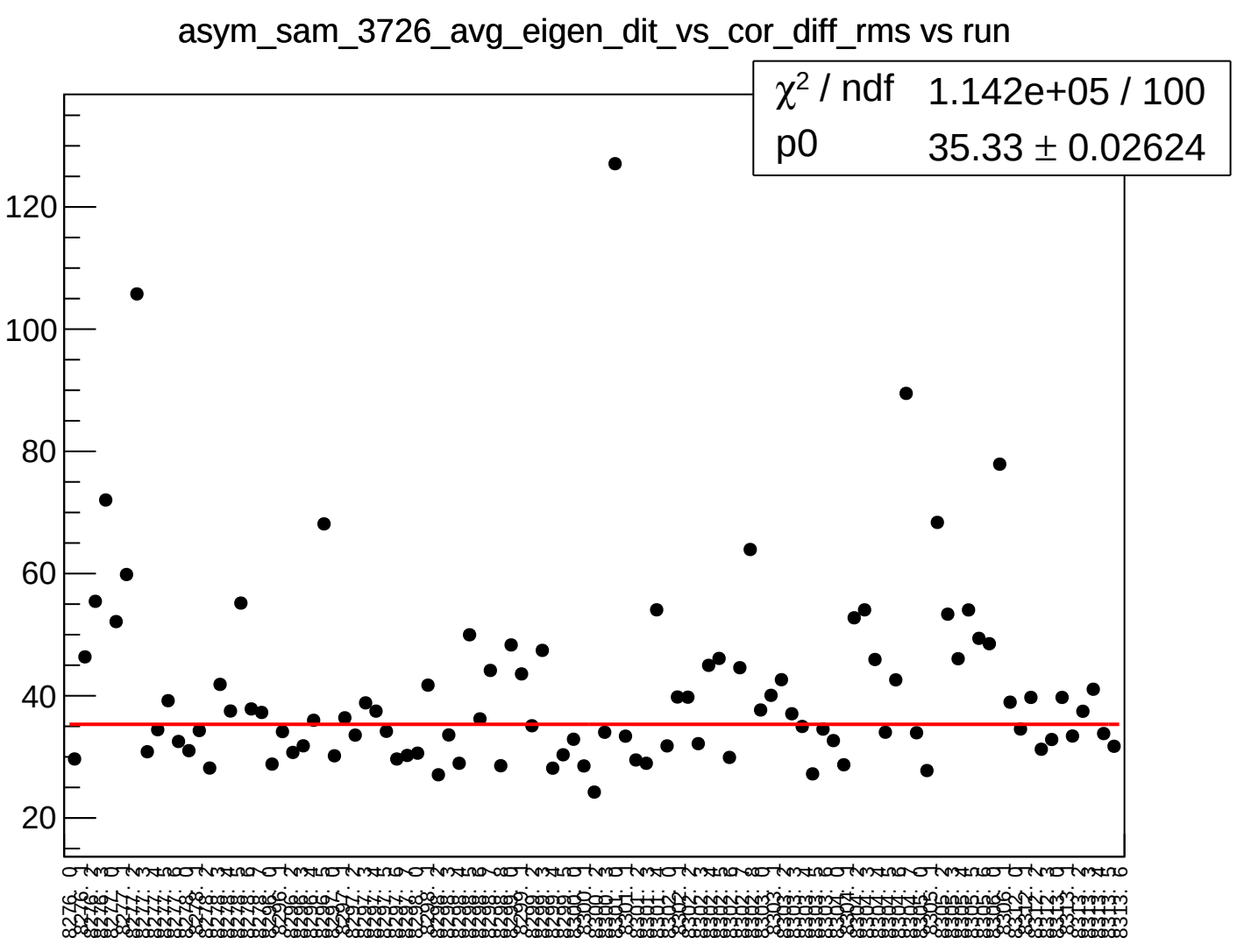

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 118.2 / 100
p0 0.1009 ± 0.0371
pull
Entries 101
Mean 48.44
Std Dev 0
pull1D
Entries 101
Mean −0.03391
Std Dev 1.081

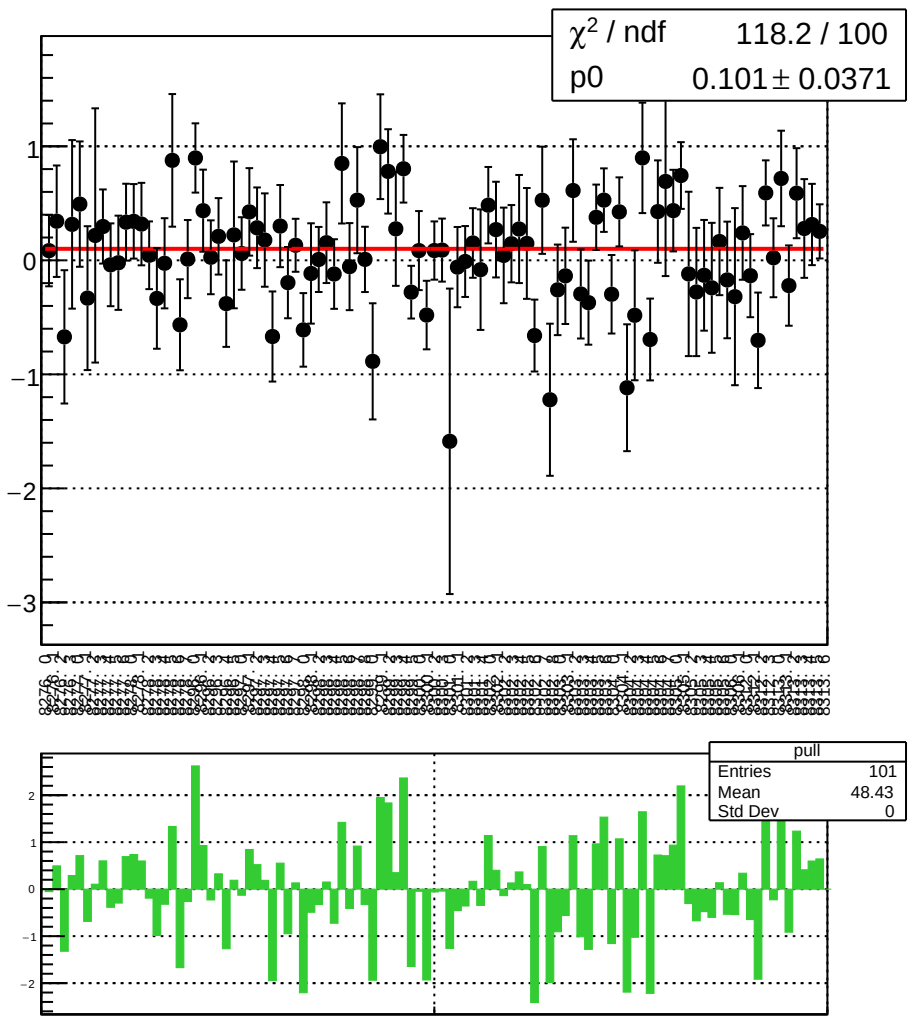

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.142e+05 / 100
p0 35.33 ± 0.02624
120
100
80
60
40
20

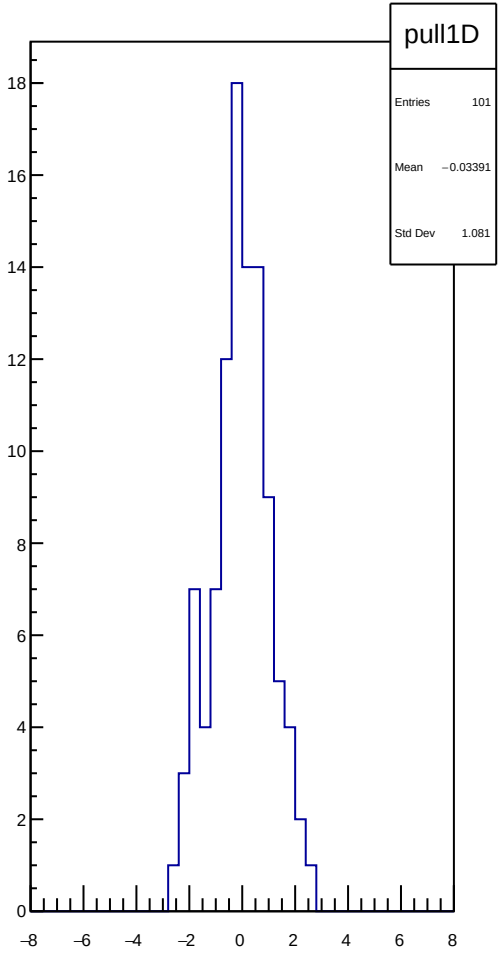

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.1 / 100
p0 4.501e−06 ± 2.551e−06
0.12
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 101
Mean −358.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.008434
Std Dev 0.9956
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

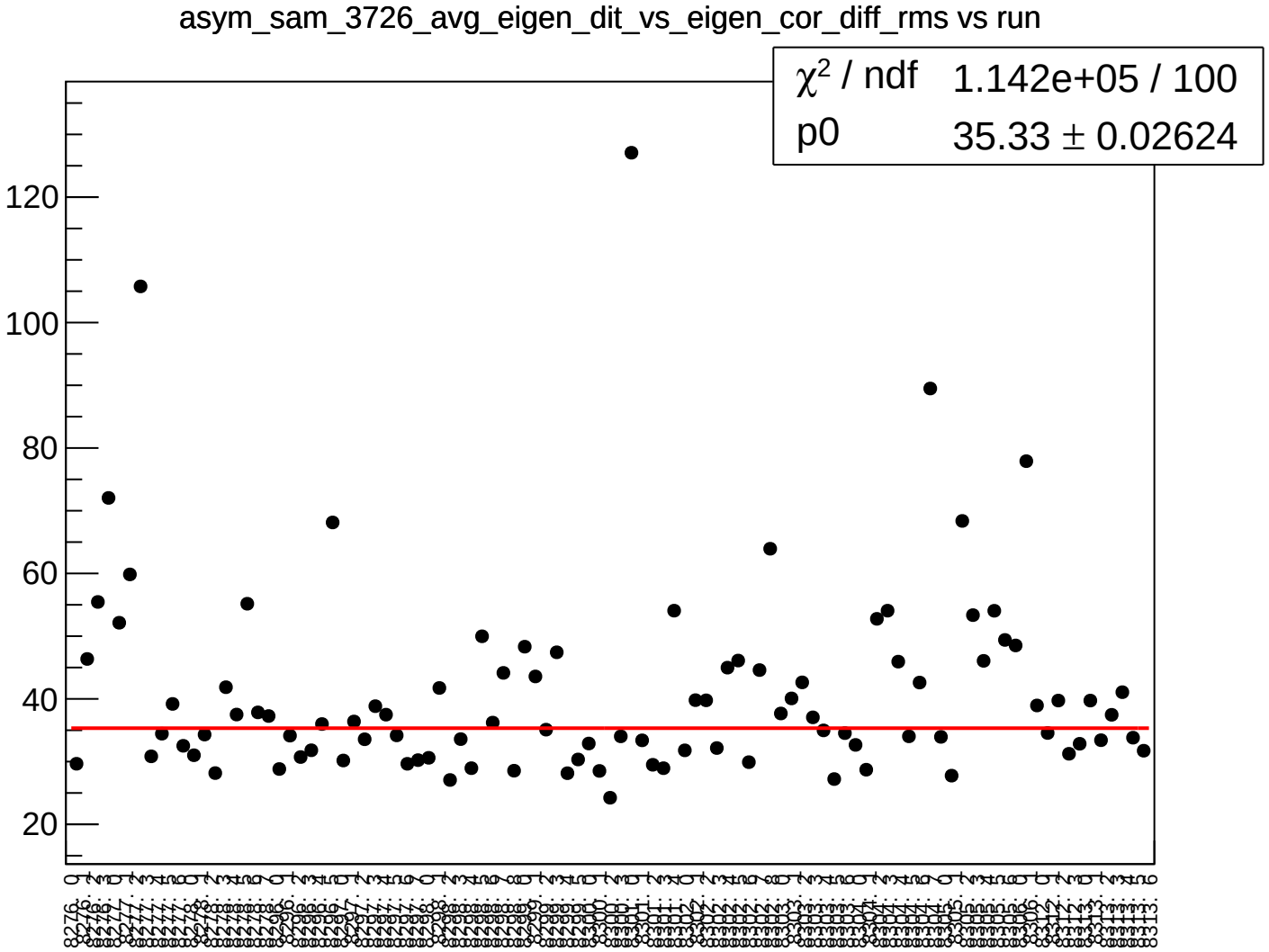

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.811e+04 / 100
p0 0.002493 ± 1.804e−06
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002

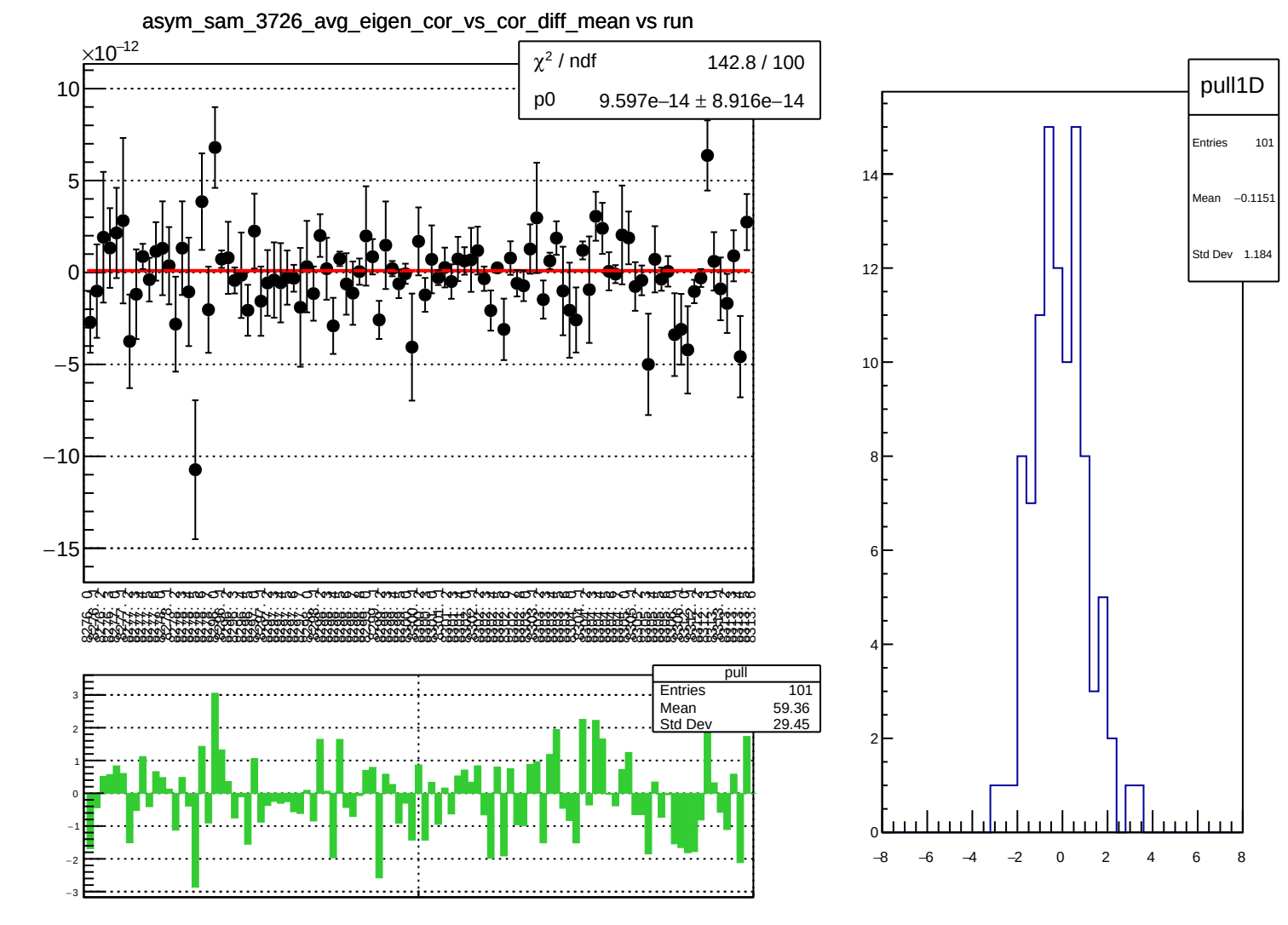

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 118.2 / 100
p0 0.101 ± 0.0371
pull
Entries 101
Mean 48.43
Std Dev 0
pull1D
Entries 101
Mean −0.03391
Std Dev 1.081

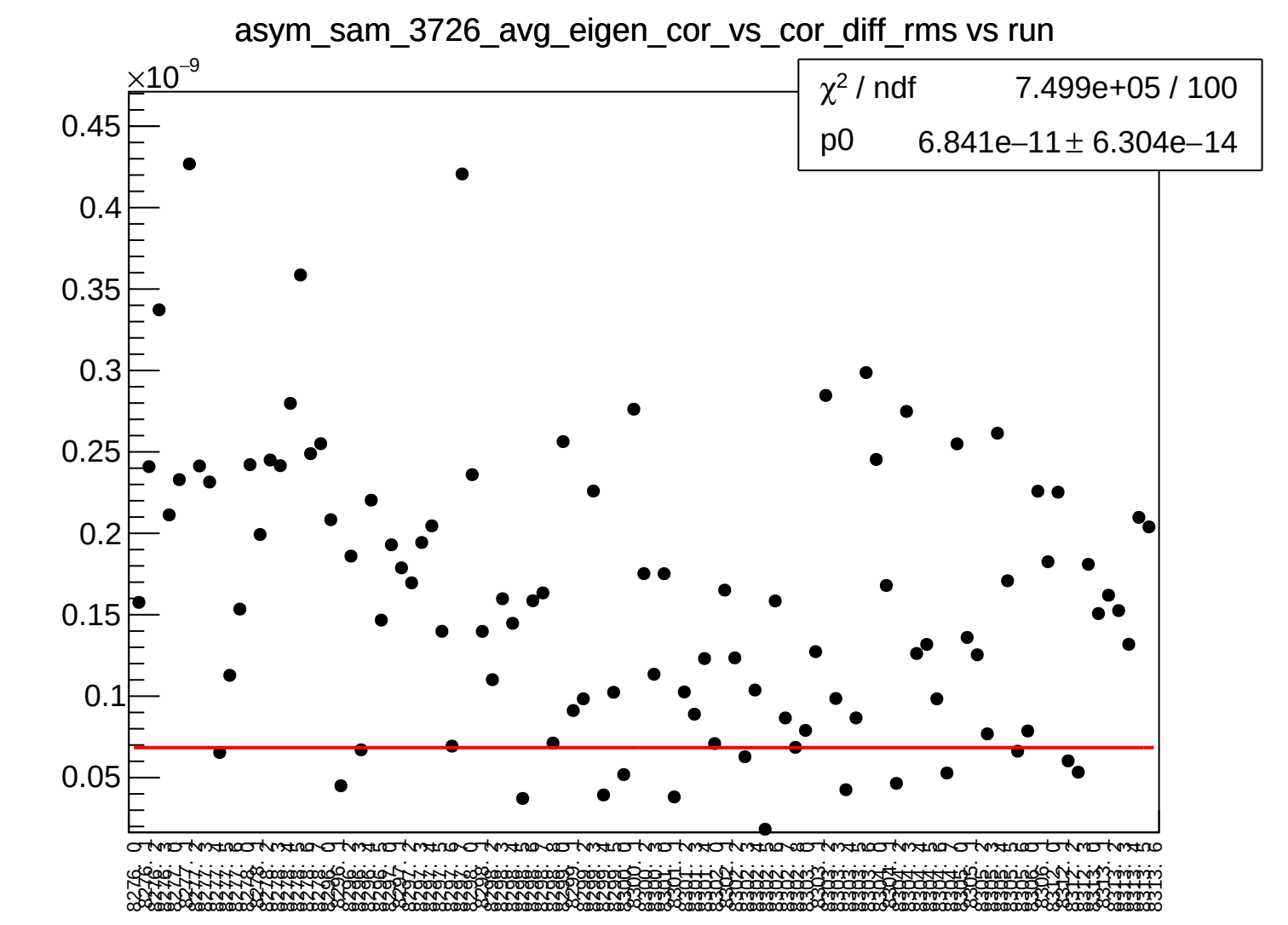

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.142e+05 / 100
p0 35.33 ± 0.02624
120
100
80
60
40
20

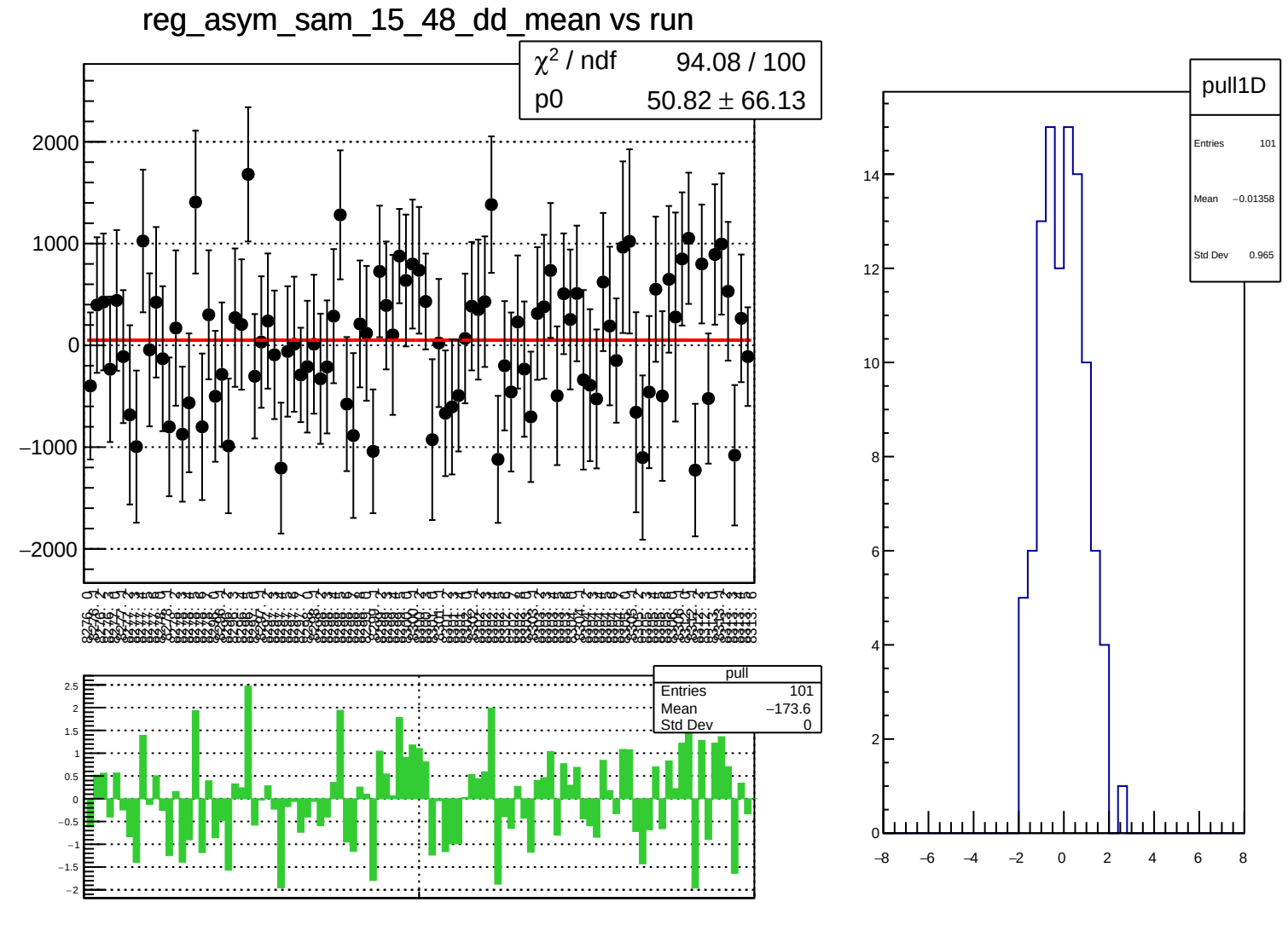

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 118.2 / 100
p0 0.101 ± 0.0371
pull
Entries 101
Mean 48.43
Std Dev 0

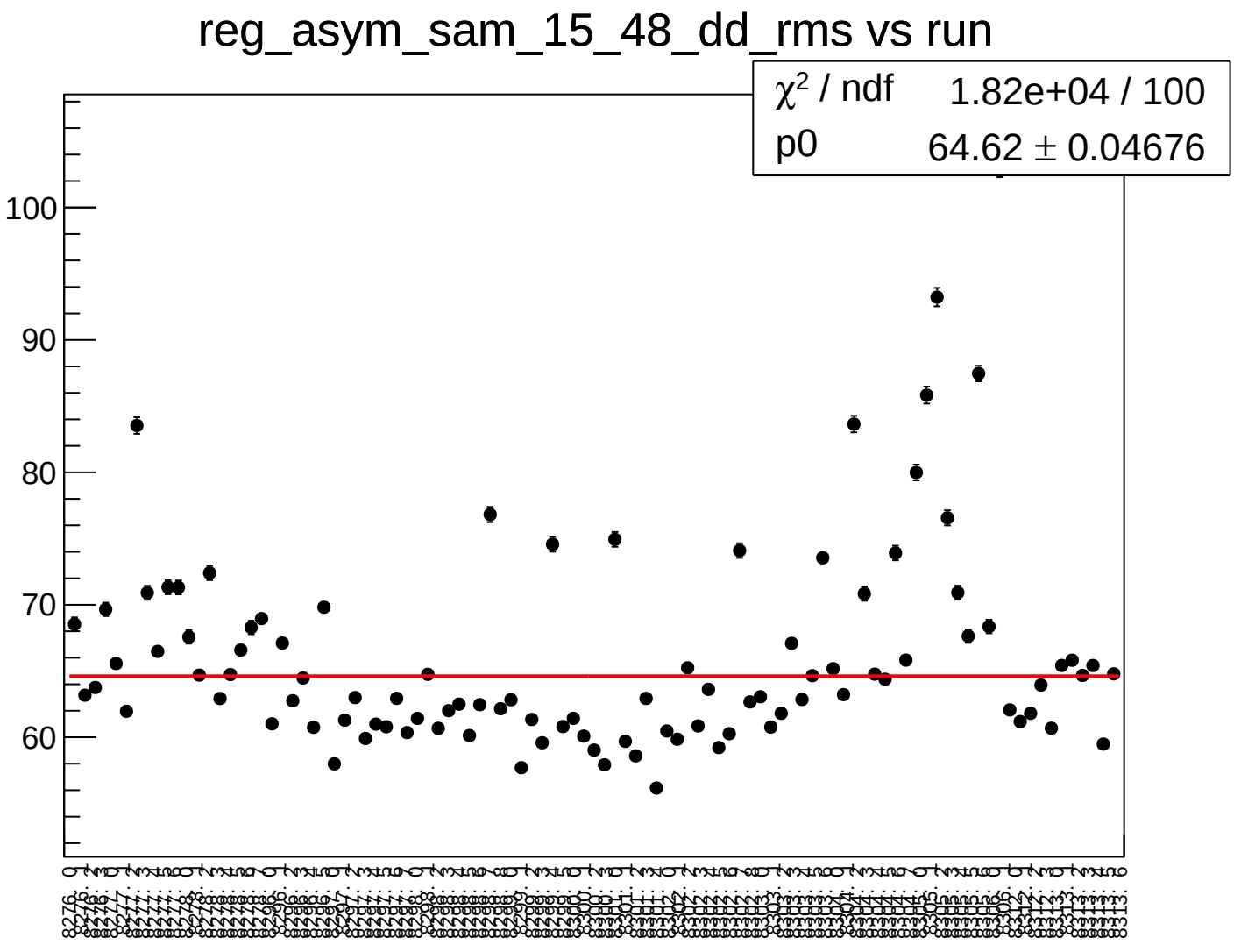

pull1D
Entries 101
Mean −0.03391
Std Dev 1.081

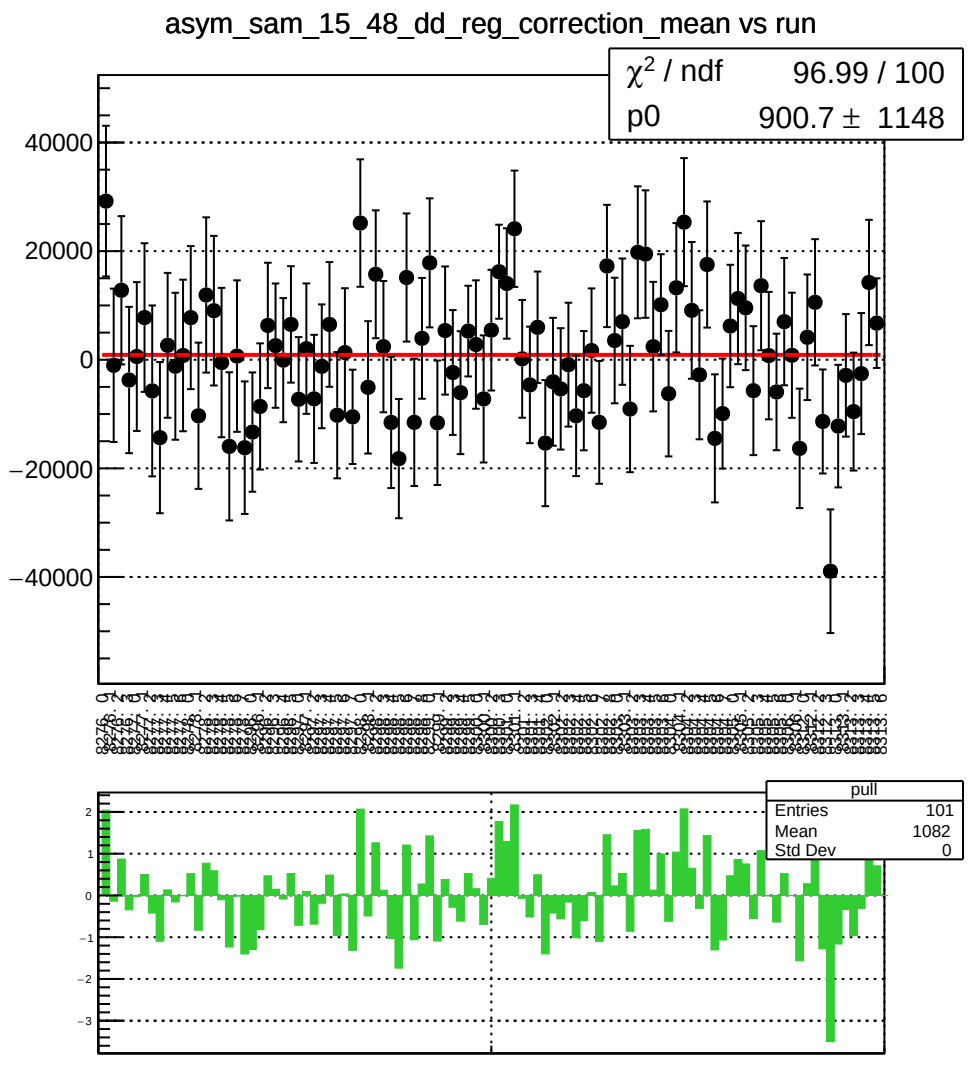

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.142e+05 / 100
p0 35.33 ± 0.02624
120
100
80
60
40
20

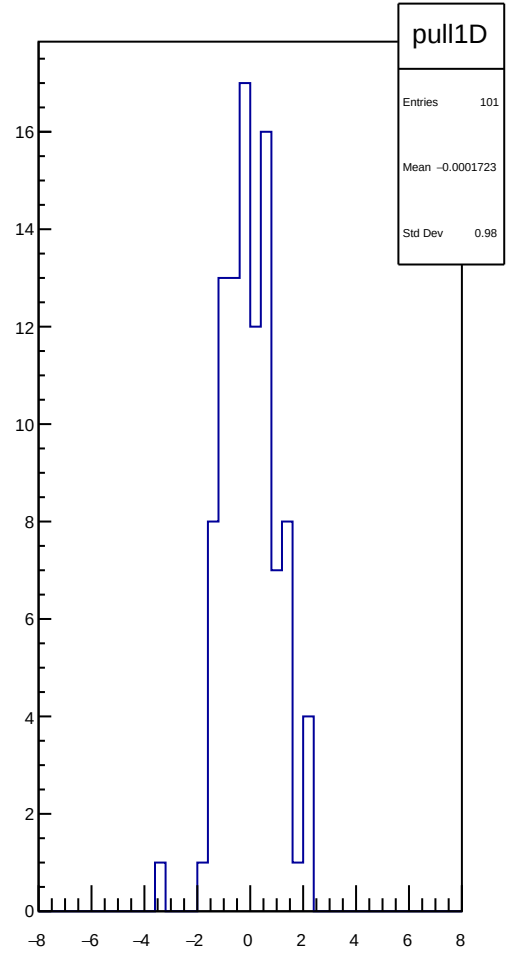

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 142.8 / 100
p0 9.597e−14 ± 8.916e−14
pull
Entries 101
Mean 59.36
Std Dev 29.45
pull1D
Entries 101
Mean −0.1151
Std Dev 1.184

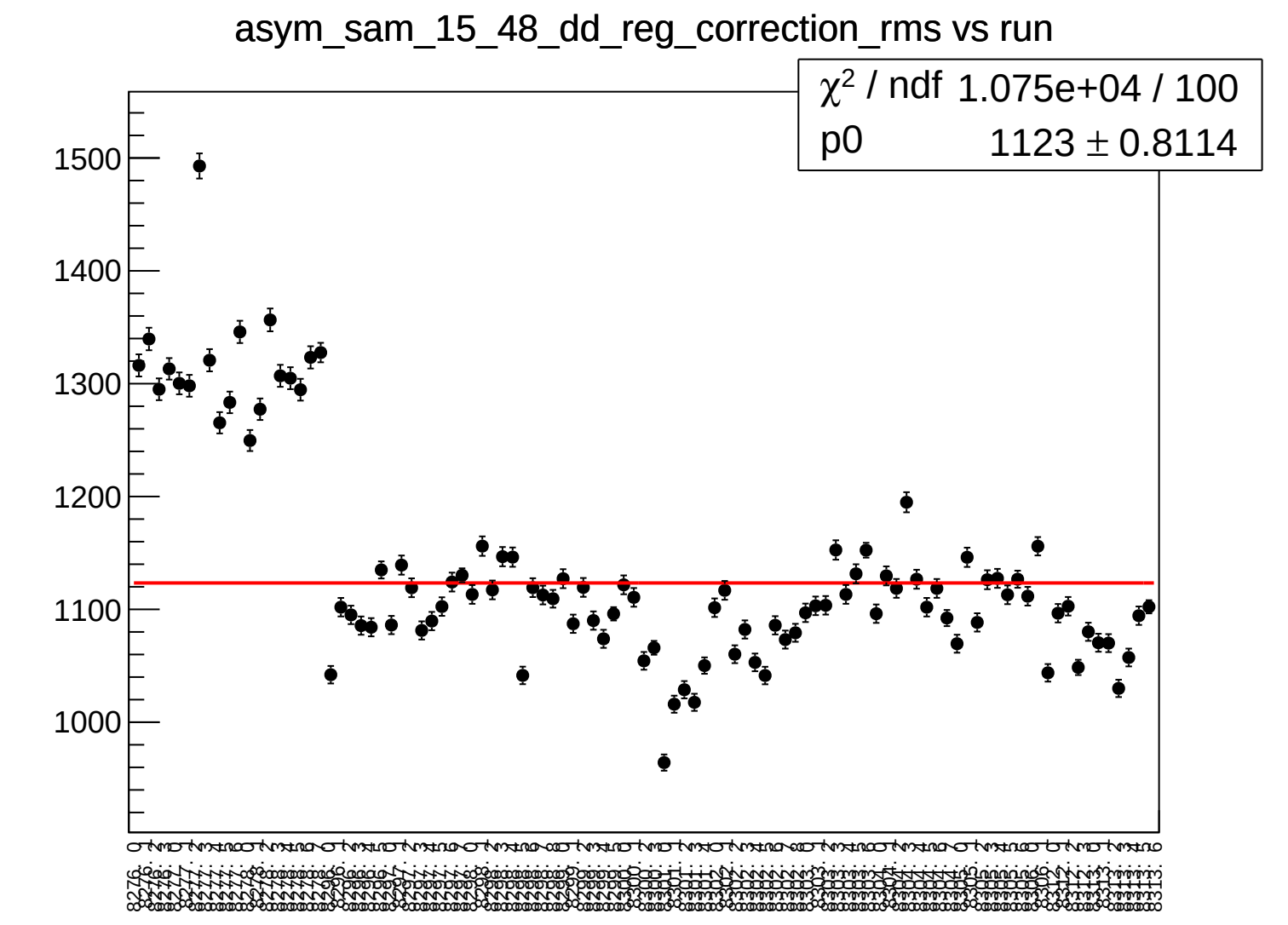

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.499e+05 / 100
p0 6.841e−11 ± 6.304e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

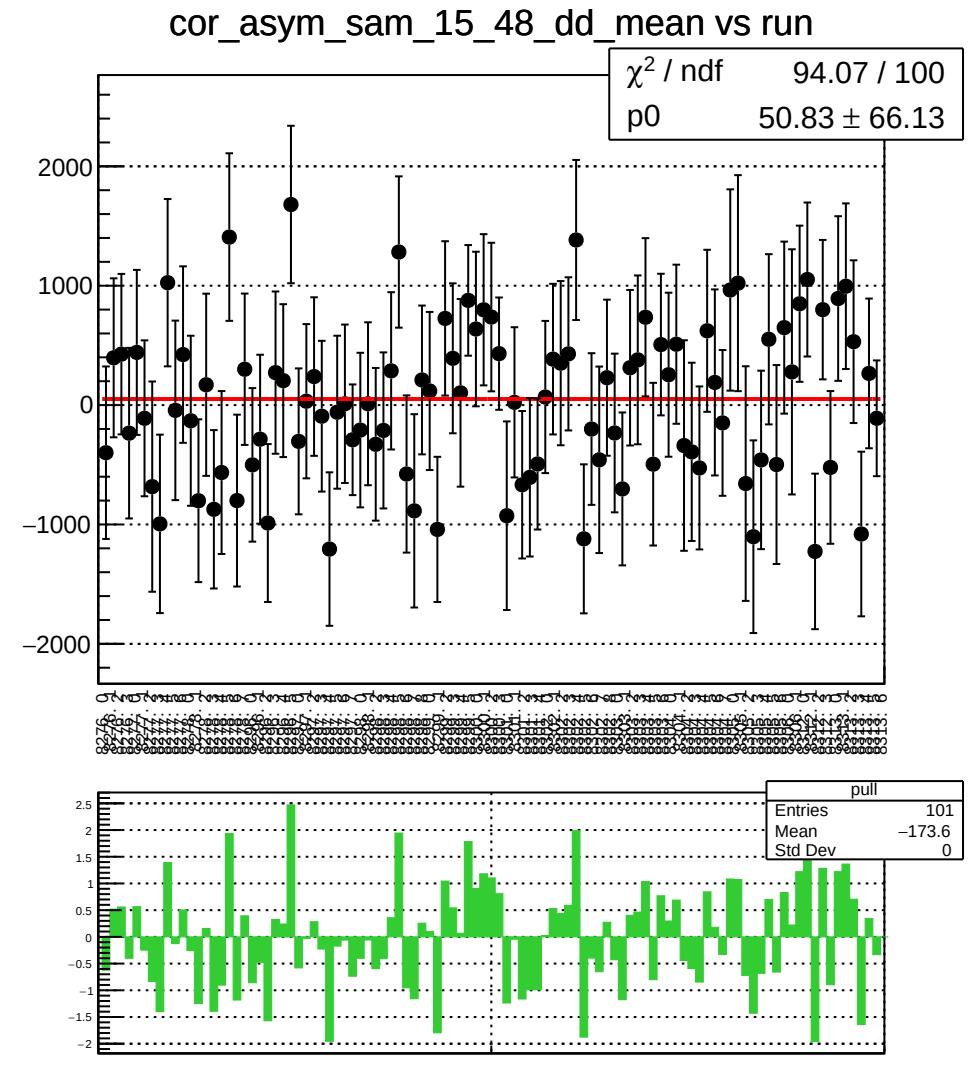

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 94.08 / 100
p0 50.82 ± 66.13
2000
1000
0
−1000
−2000
pull
Entries 101
Mean −173.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 101
Mean −0.01358
Std Dev 0.965
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

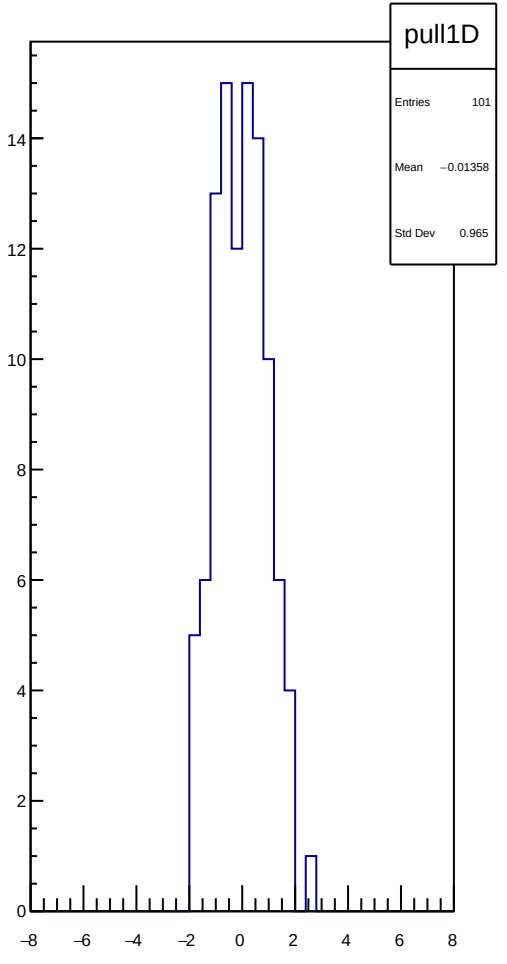

reg_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.82e+04 / 100
p0 64.62 ± 0.04676
100
90
80
70
60

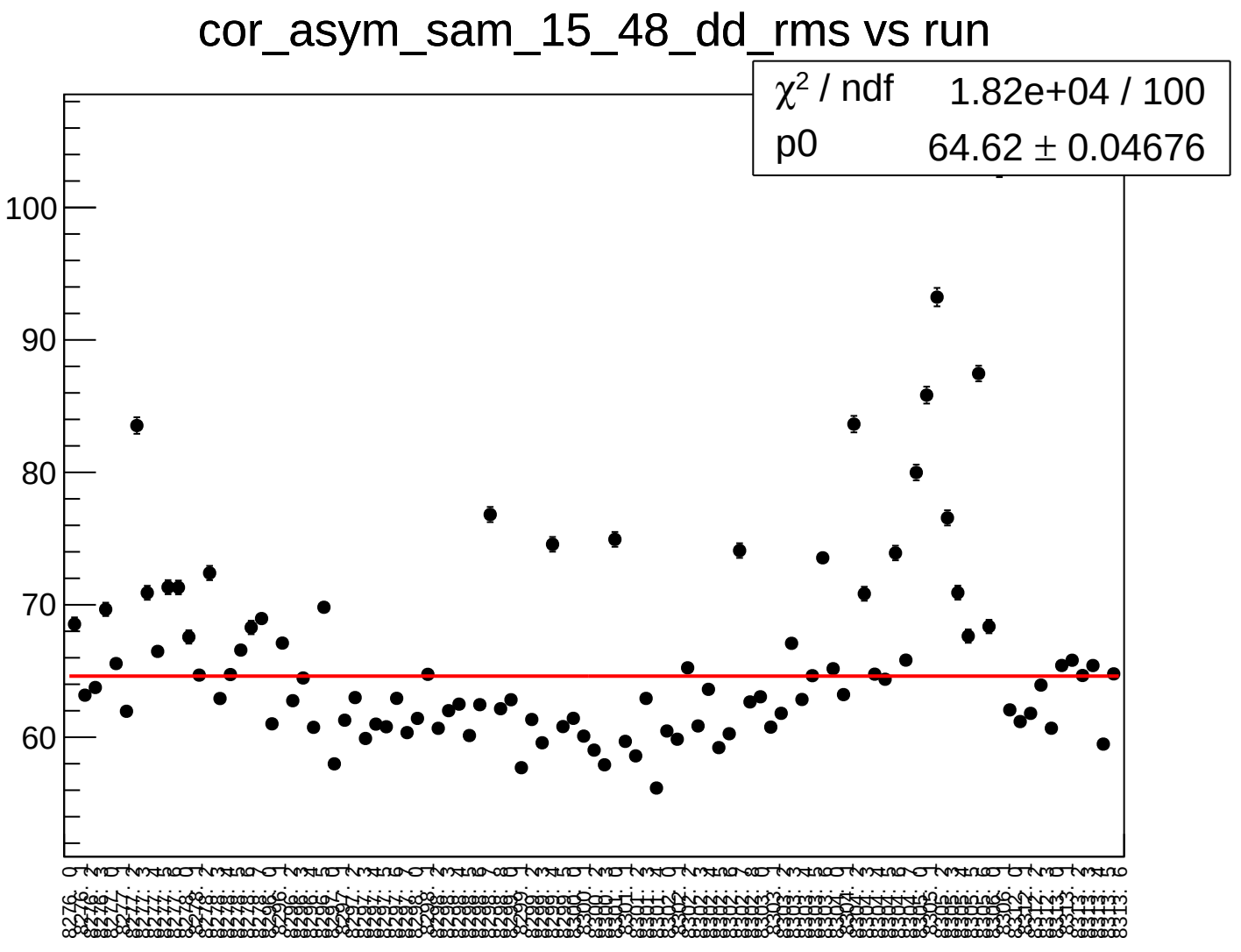

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 96.99 / 100
p0 900.7 ± 1148
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 1082
Std Dev 0
2
1
0
−1
−2
−3

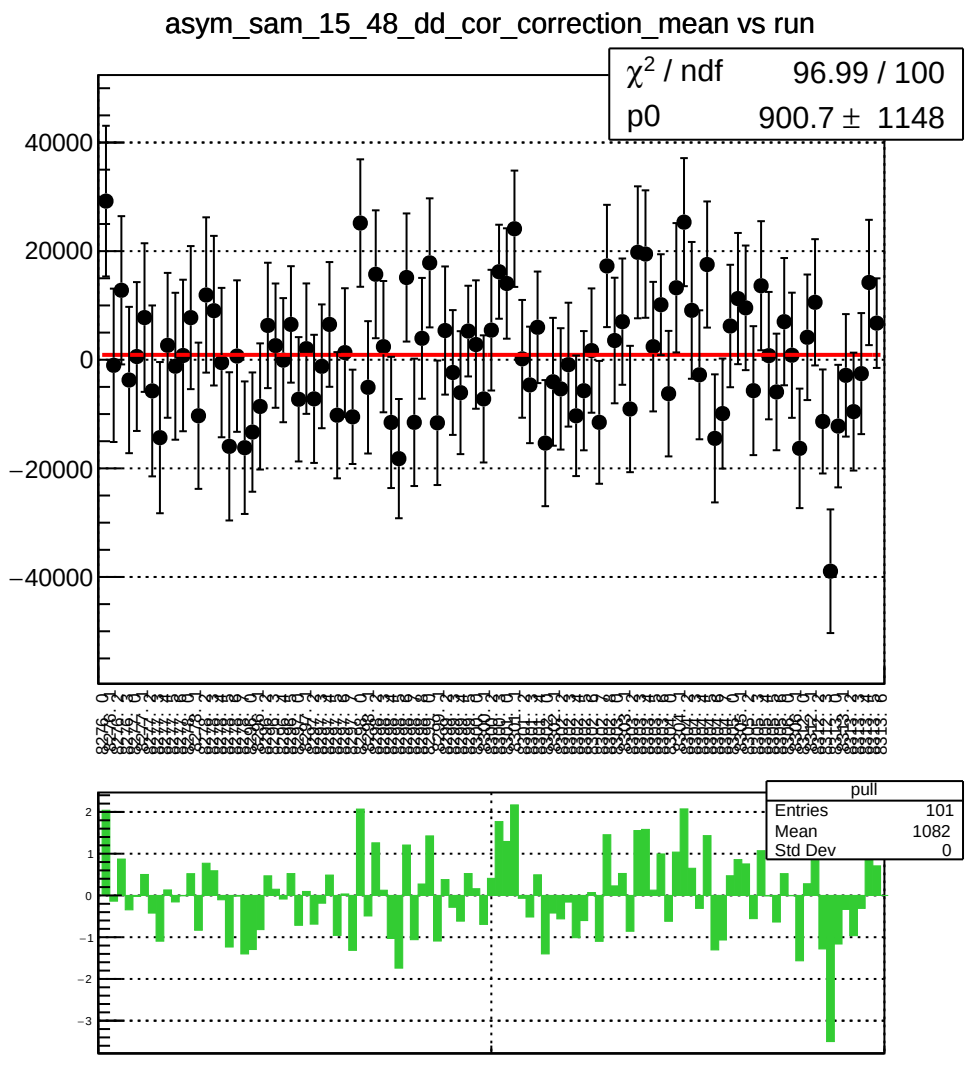

pull1D
Entries 101
Mean −0.0001723
Std Dev 0.98
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

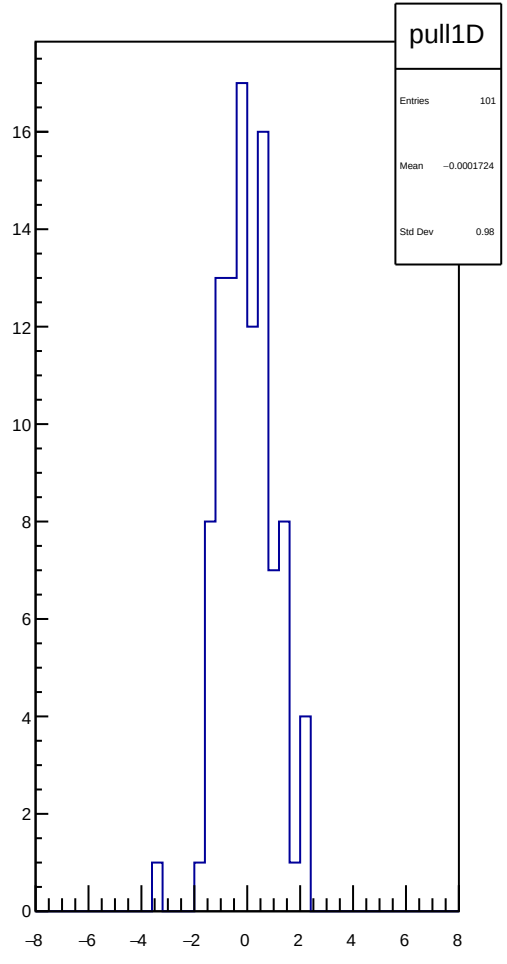

asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 1.075e+04 / 100
p0 1123 ± 0.8114
1500
1400
1300
1200
1100
1000

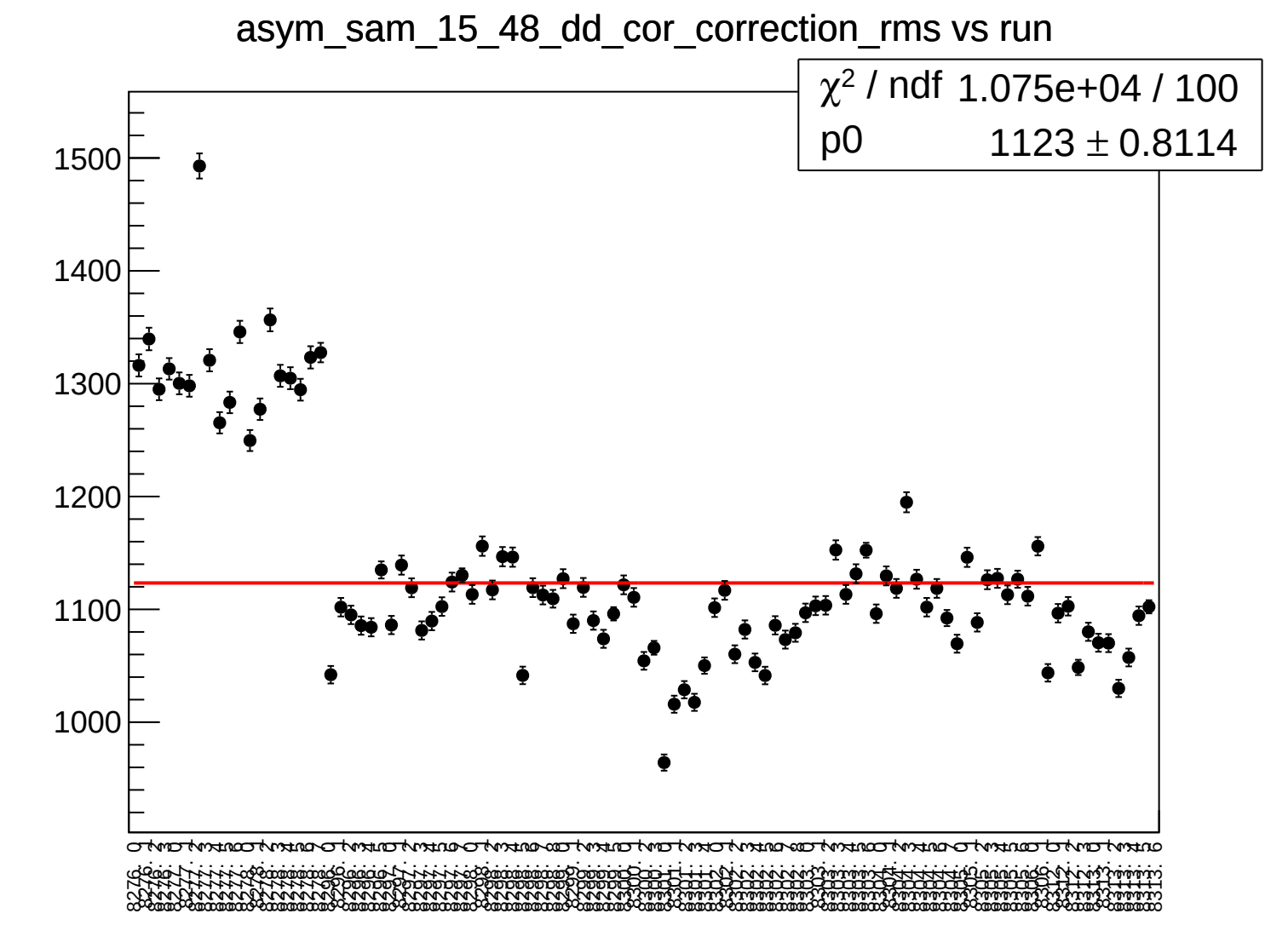

cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 94.07 / 100
p0 50.83 ± 66.13
2000
1000
0
−1000
−2000
pull
Entries 101
Mean −173.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

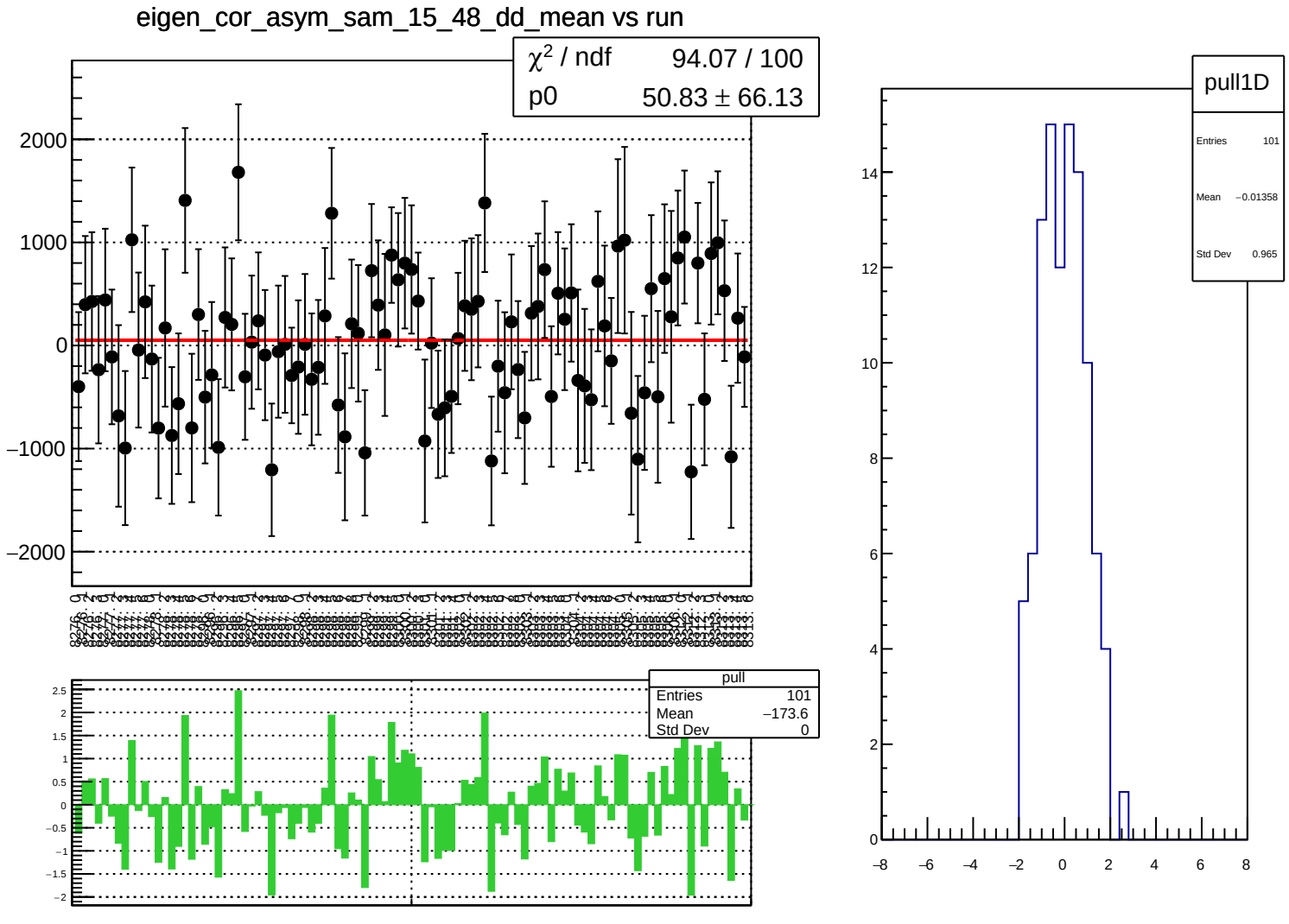

pull1D
Entries 101
Mean −0.01358
Std Dev 0.965
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

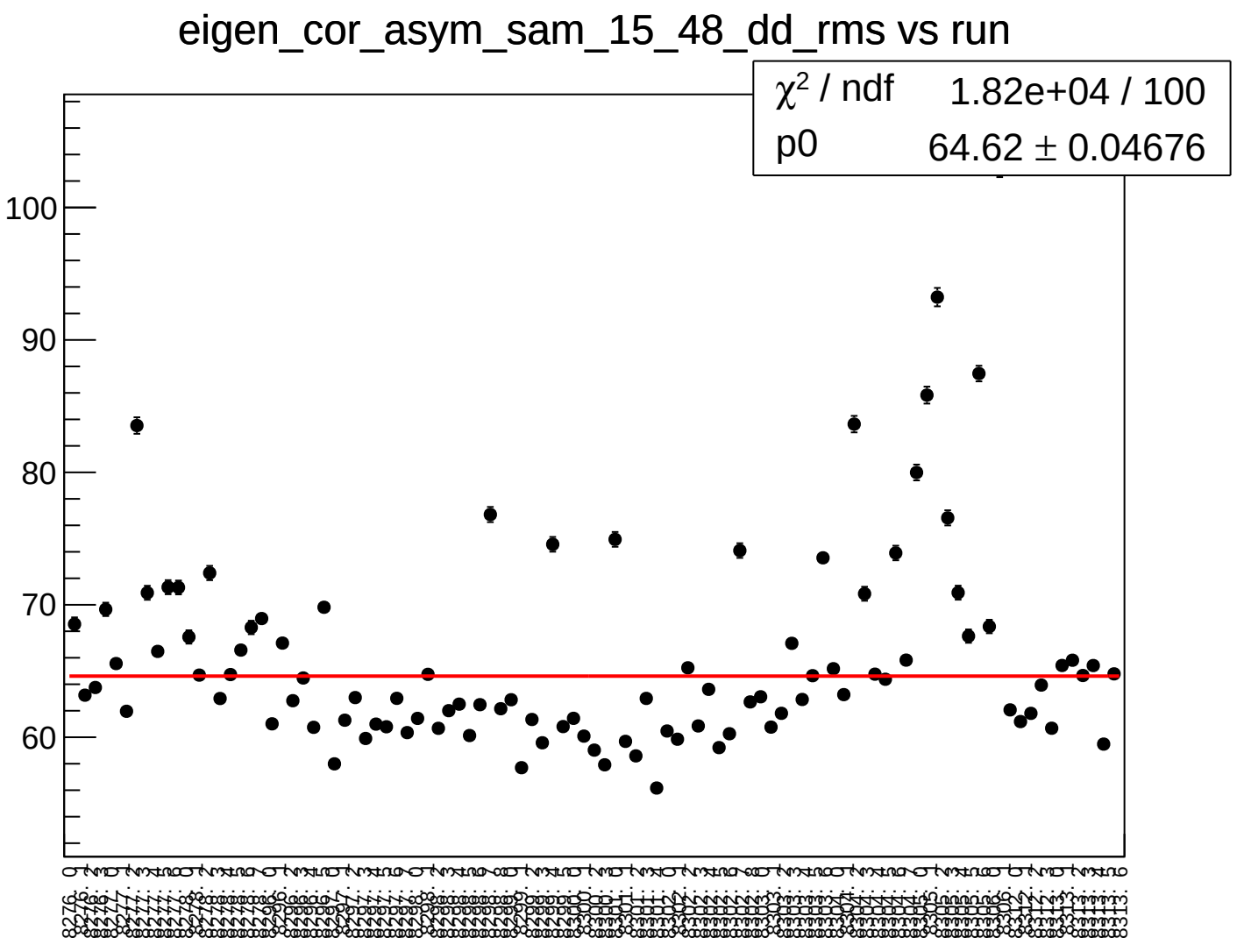

cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.82e+04 / 100
p0 64.62 ± 0.04676
100
90
80
70
60

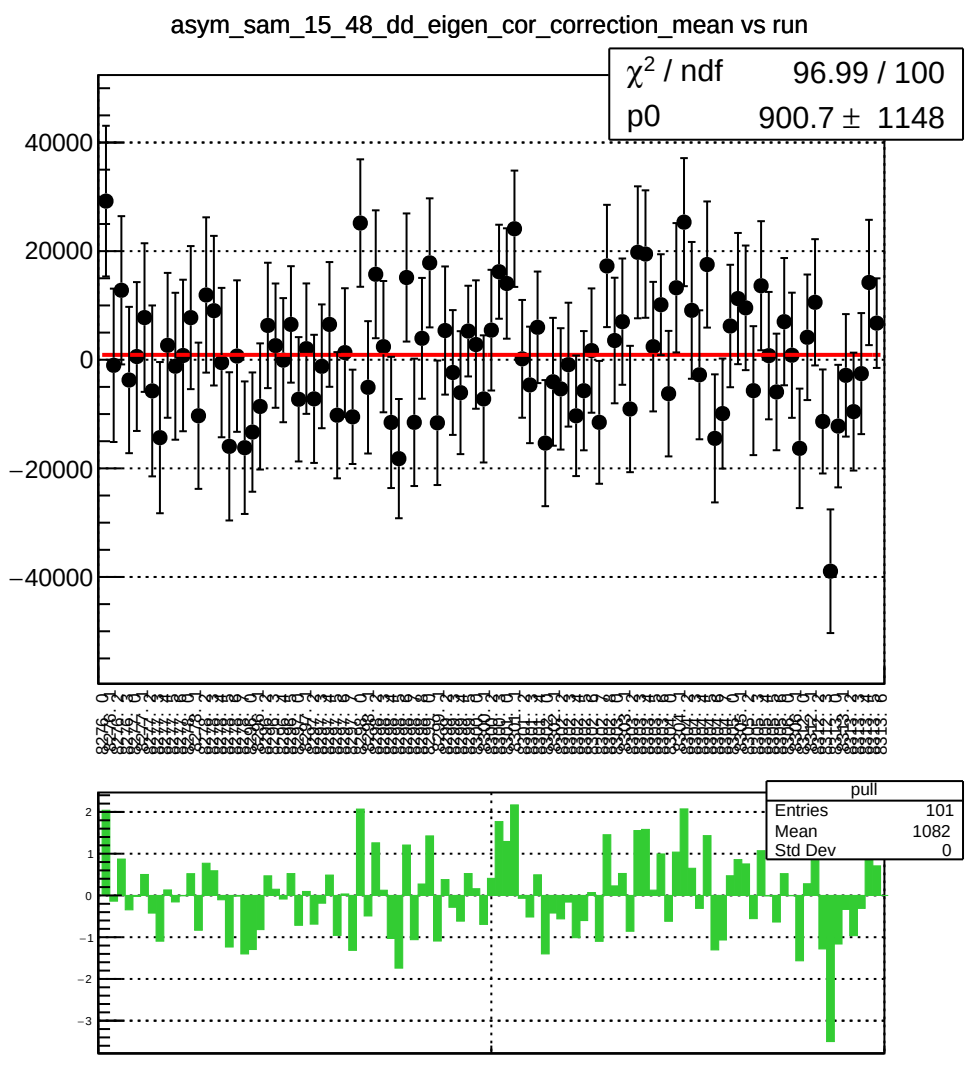

asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 96.99 / 100
p0 900.7 ± 1148
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 1082
Std Dev 0
2
1
0
−1
−2
−3

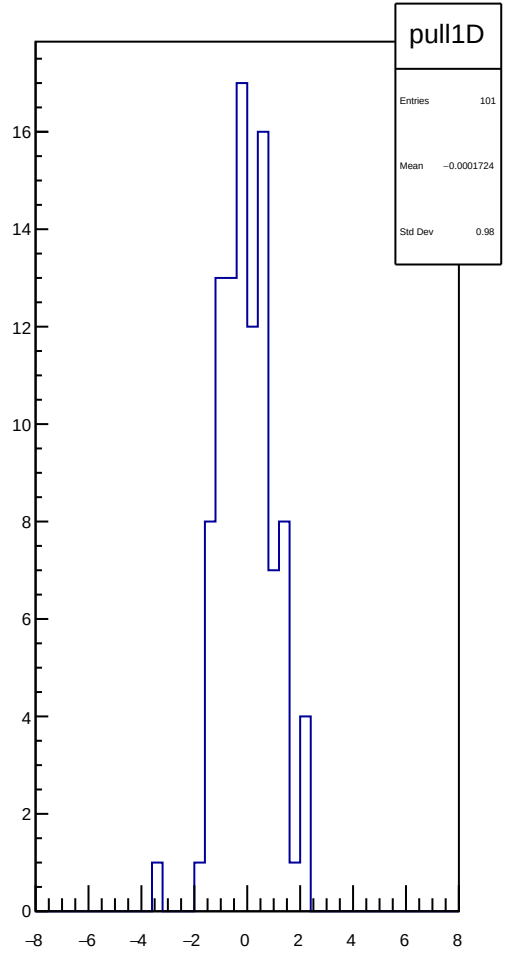

pull1D
Entries 101
Mean −0.0001724
Std Dev 0.98
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

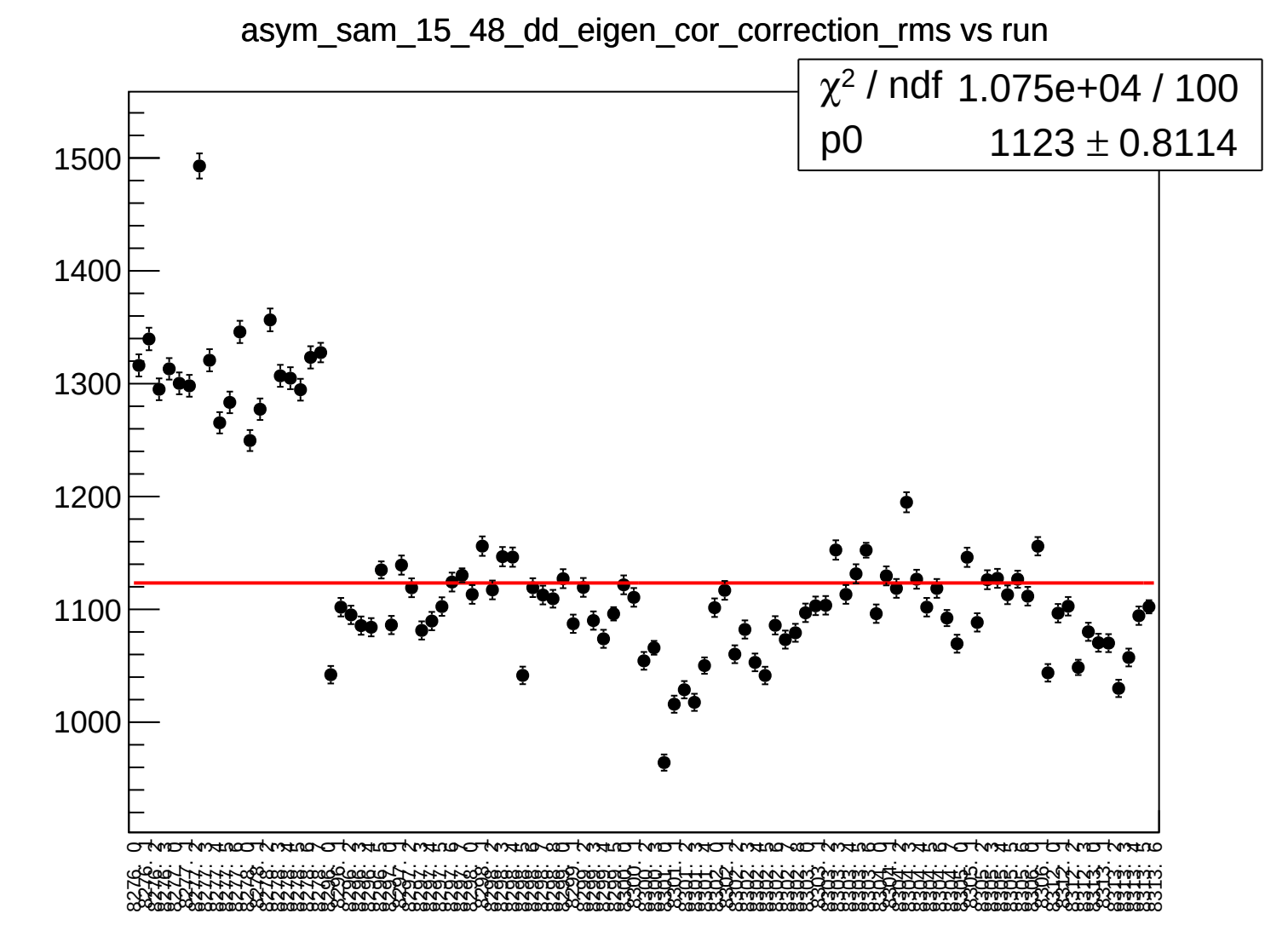

asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 1.075e+04 / 100
p0 1123 ± 0.8114
1500
1400
1300
1200
1100
1000

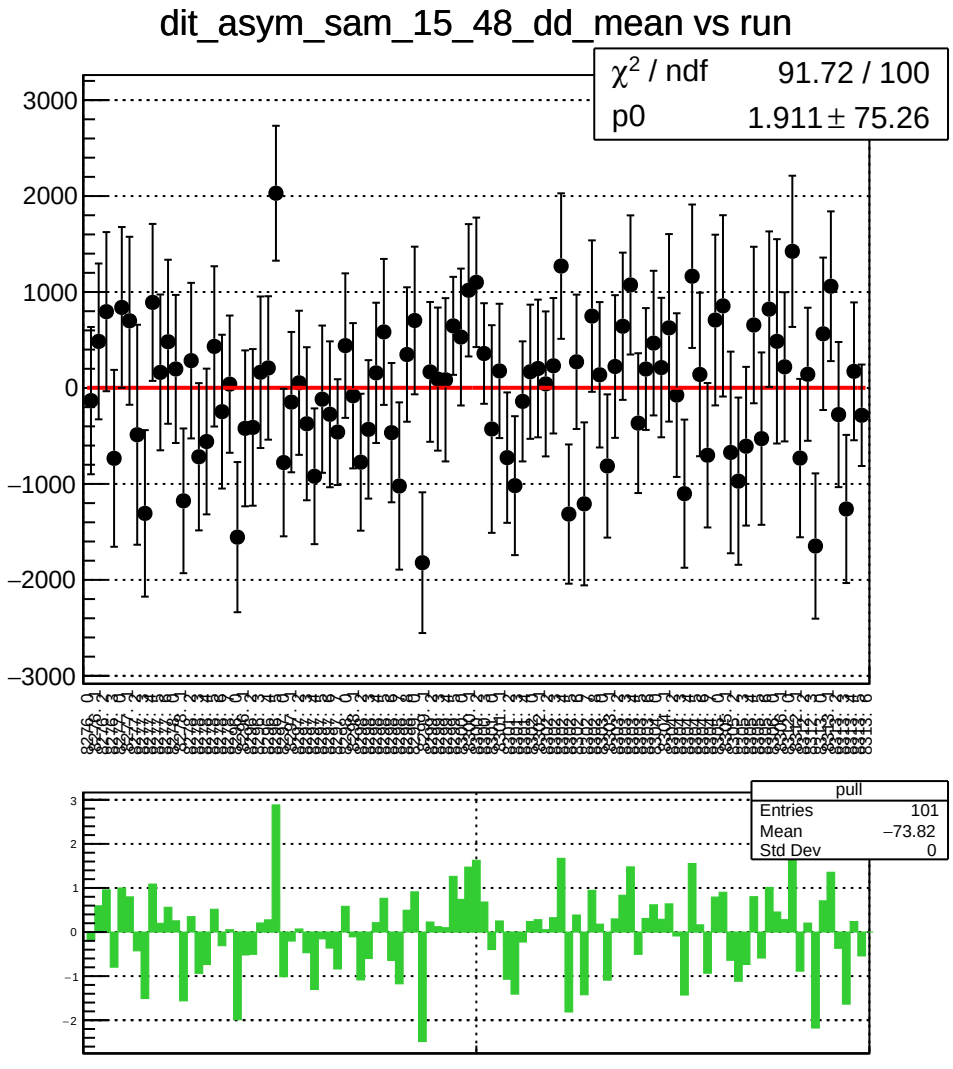

eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 94.07 / 100
p0 50.83 ± 66.13
2000
1000
0
−1000
−2000
pull
Entries 101
Mean −173.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 101
Mean −0.01358
Std Dev 0.965
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

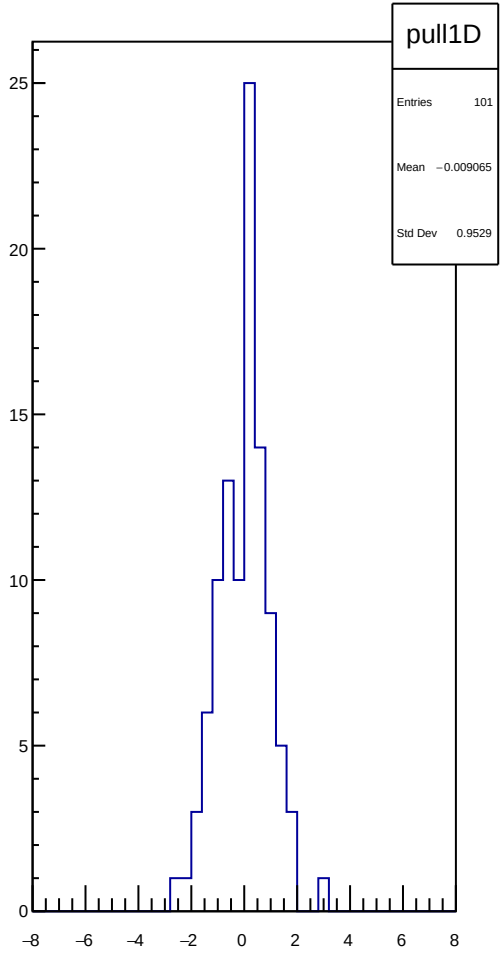

eigen_cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.82e+04 / 100
p0 64.62 ± 0.04676
100
90
80
70
60

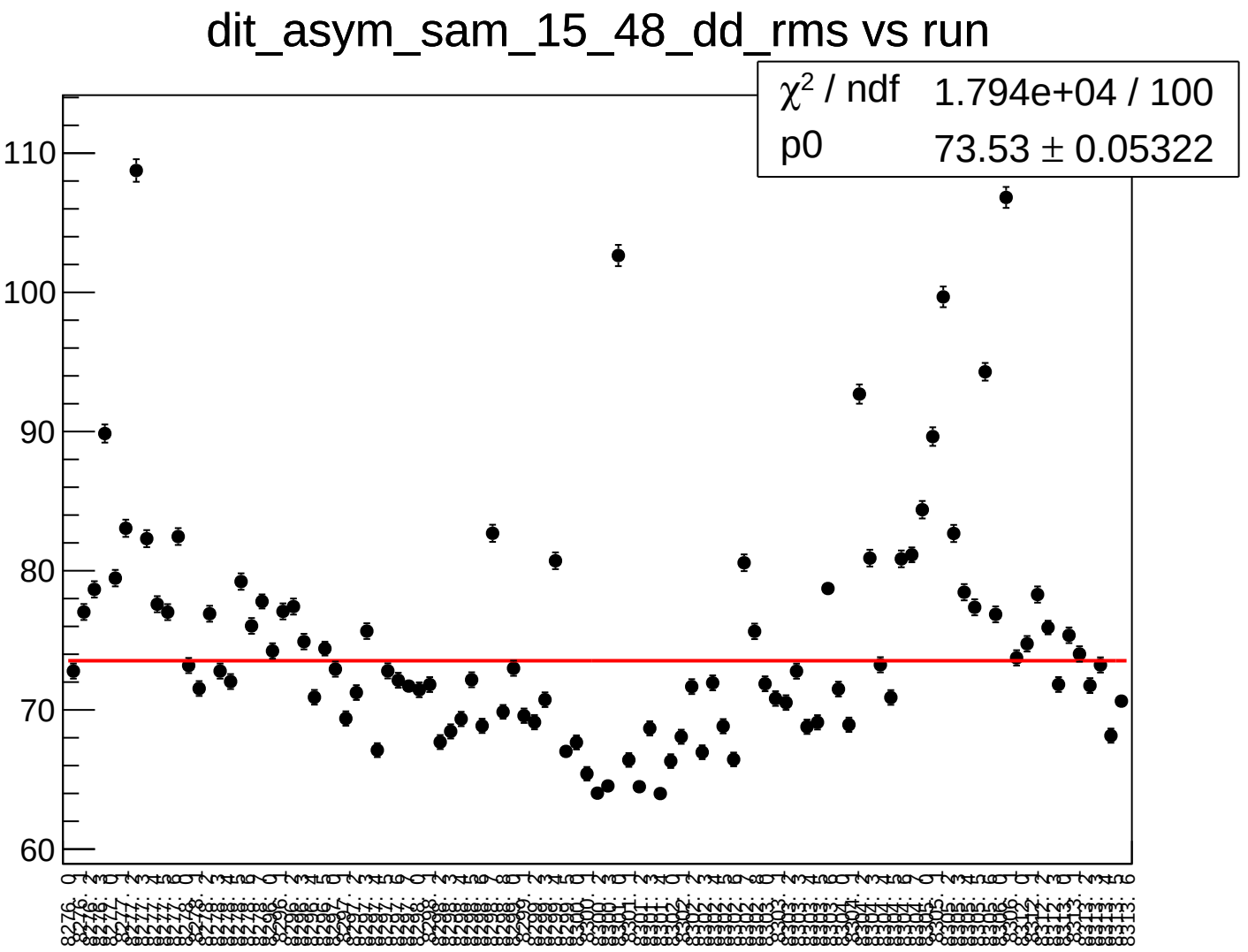

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 96.99 / 100
p0 900.7 ± 1148
40000
20000
0
−20000
−40000
pull
Entries 101
Mean 1082
Std Dev 0
2
1
0
−1
−2
−3

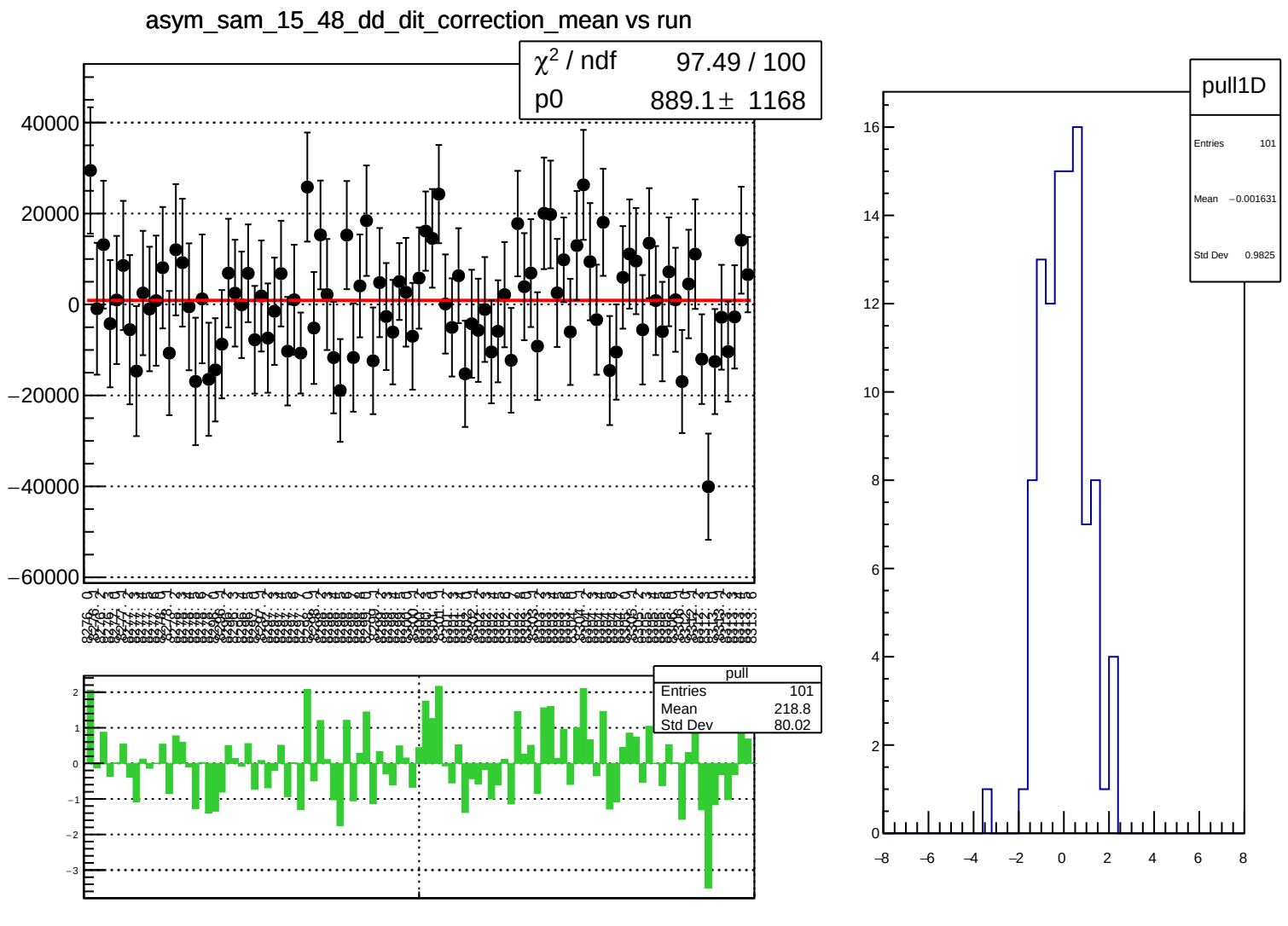

pull1D
Entries 101
Mean −0.0001724
Std Dev 0.98
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

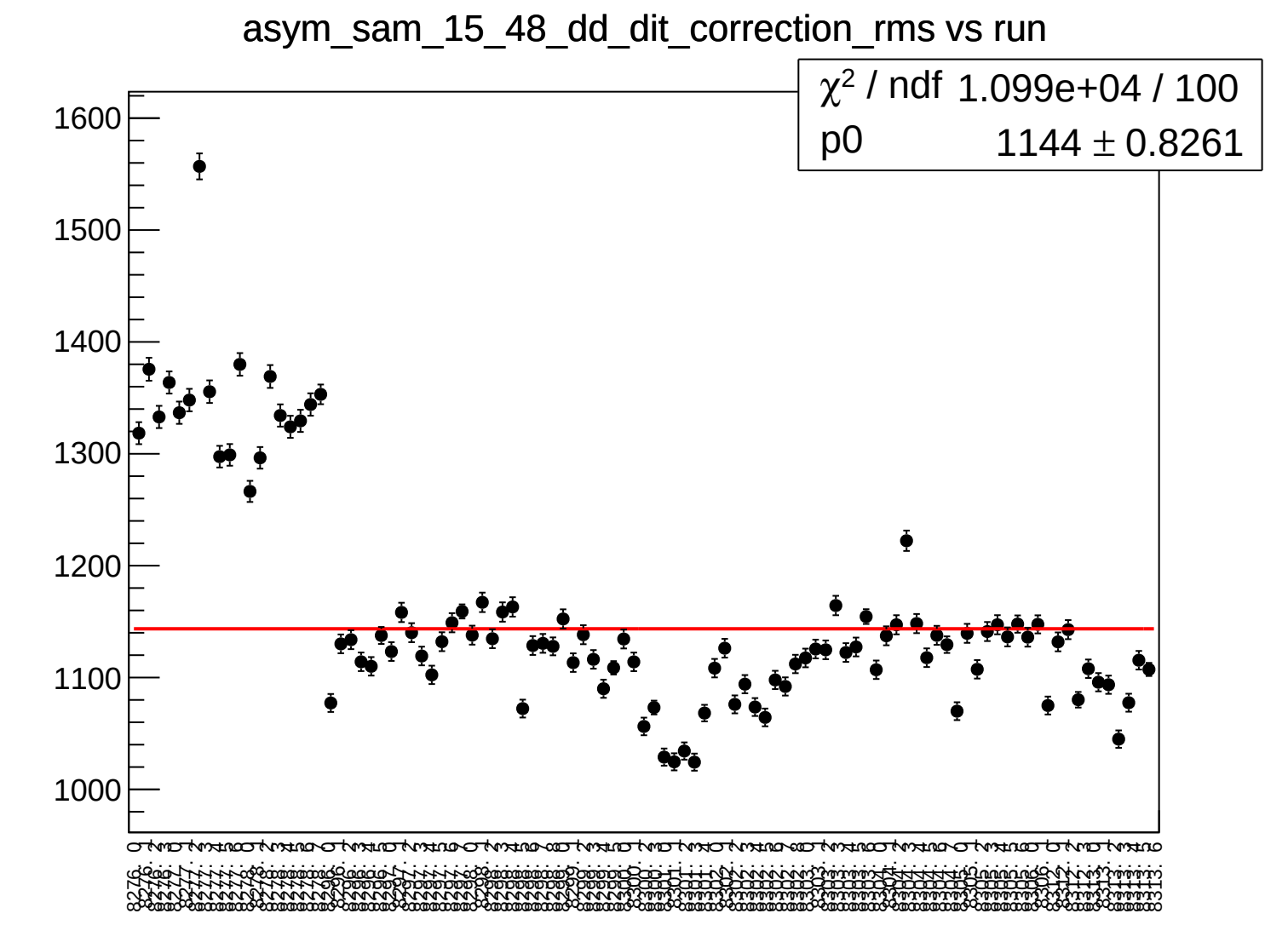

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.075e+04 / 100
p0 1123 ± 0.8114
1500
1400
1300
1200
1100
1000

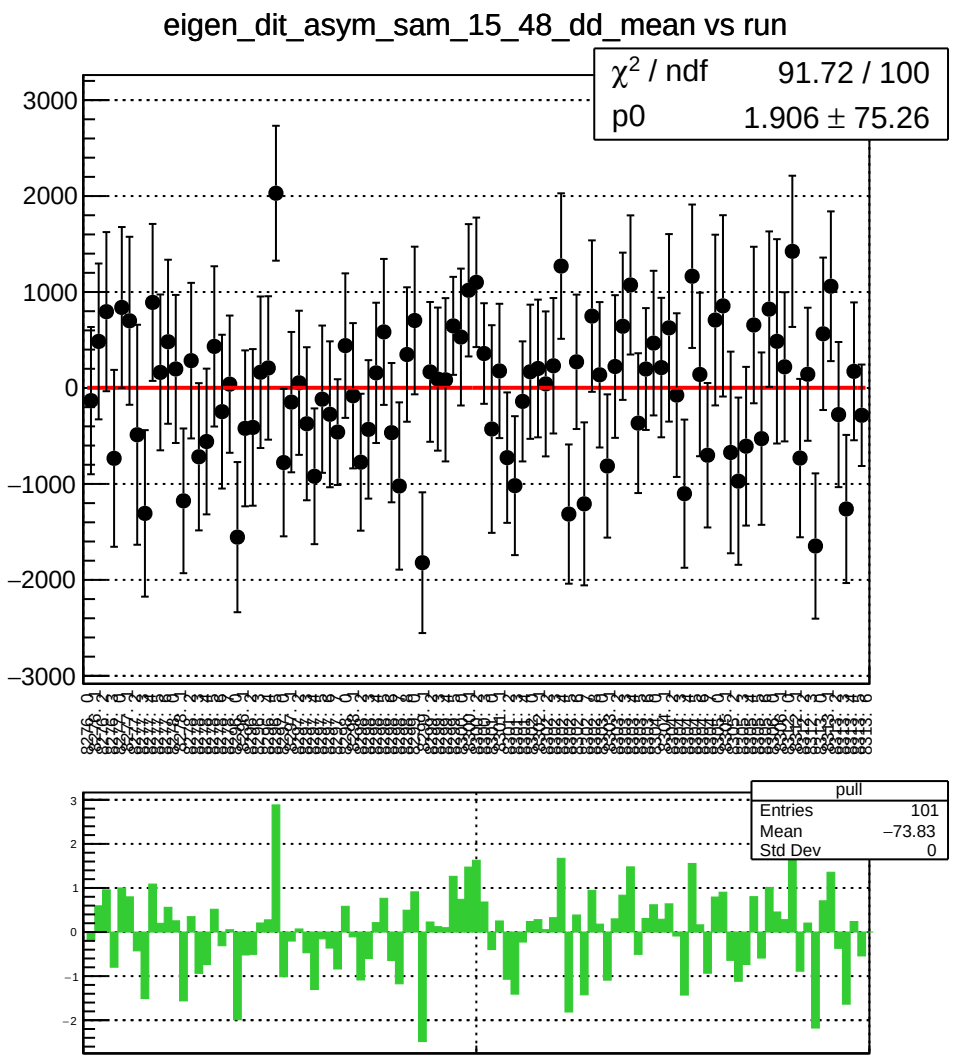

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 91.72 / 100
p0 1.911 ± 75.26
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 101
Mean −73.82
Std Dev 0
3
2
1
0
−1
−2

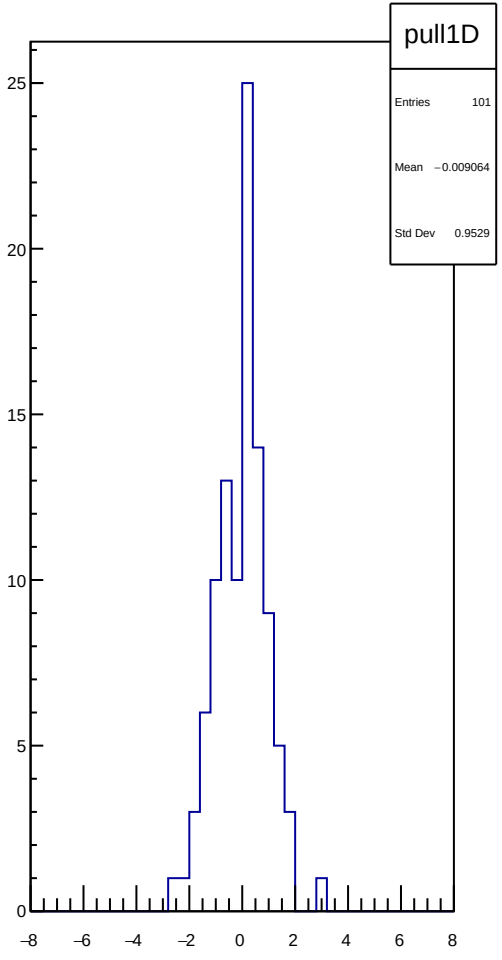

pull1D
Entries 101
Mean −0.009065
Std Dev 0.9529
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

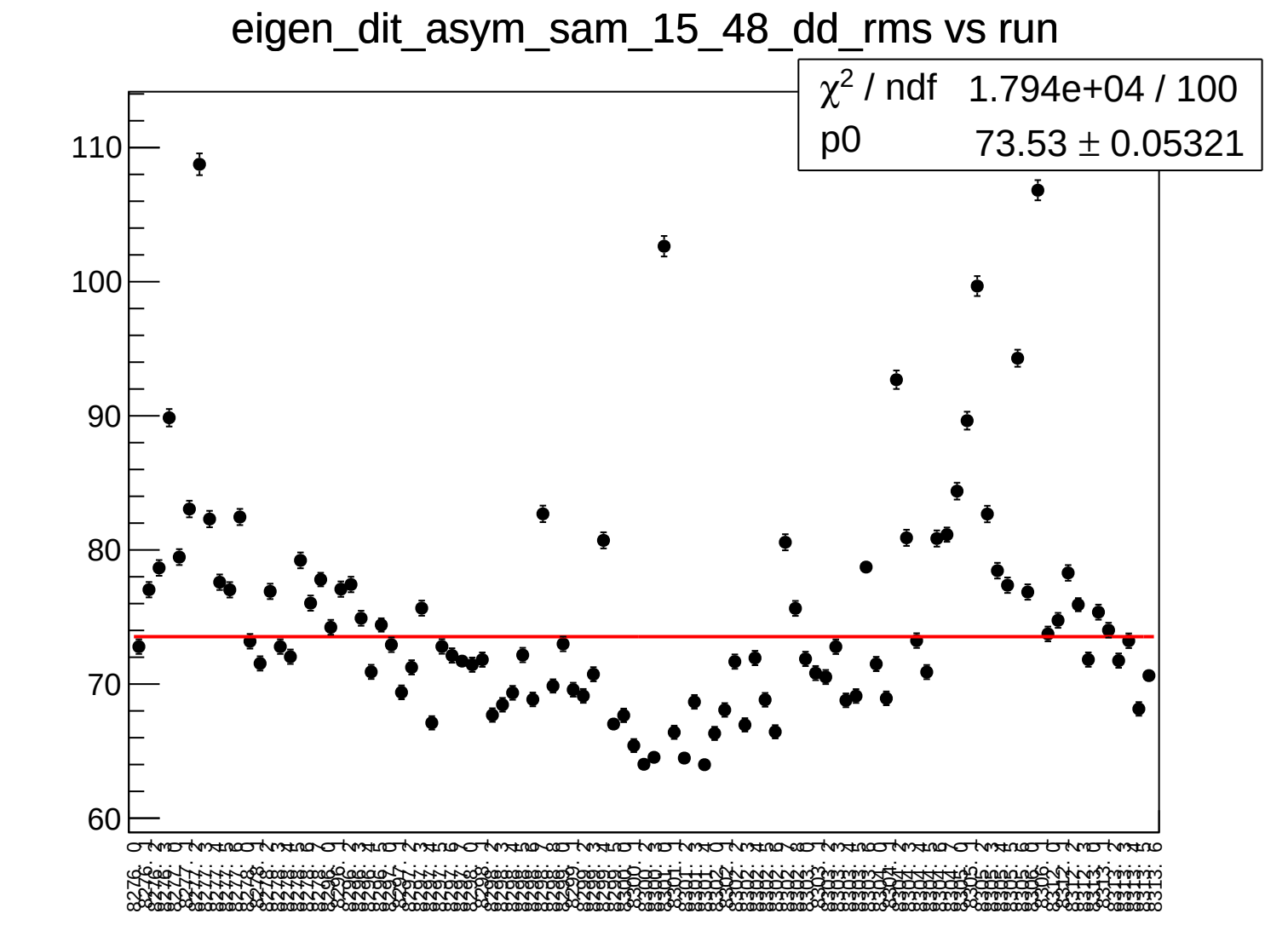

dit_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 1.794e+04 / 100
p0 73.53 ± 0.05322
110
100
90
80
70
60

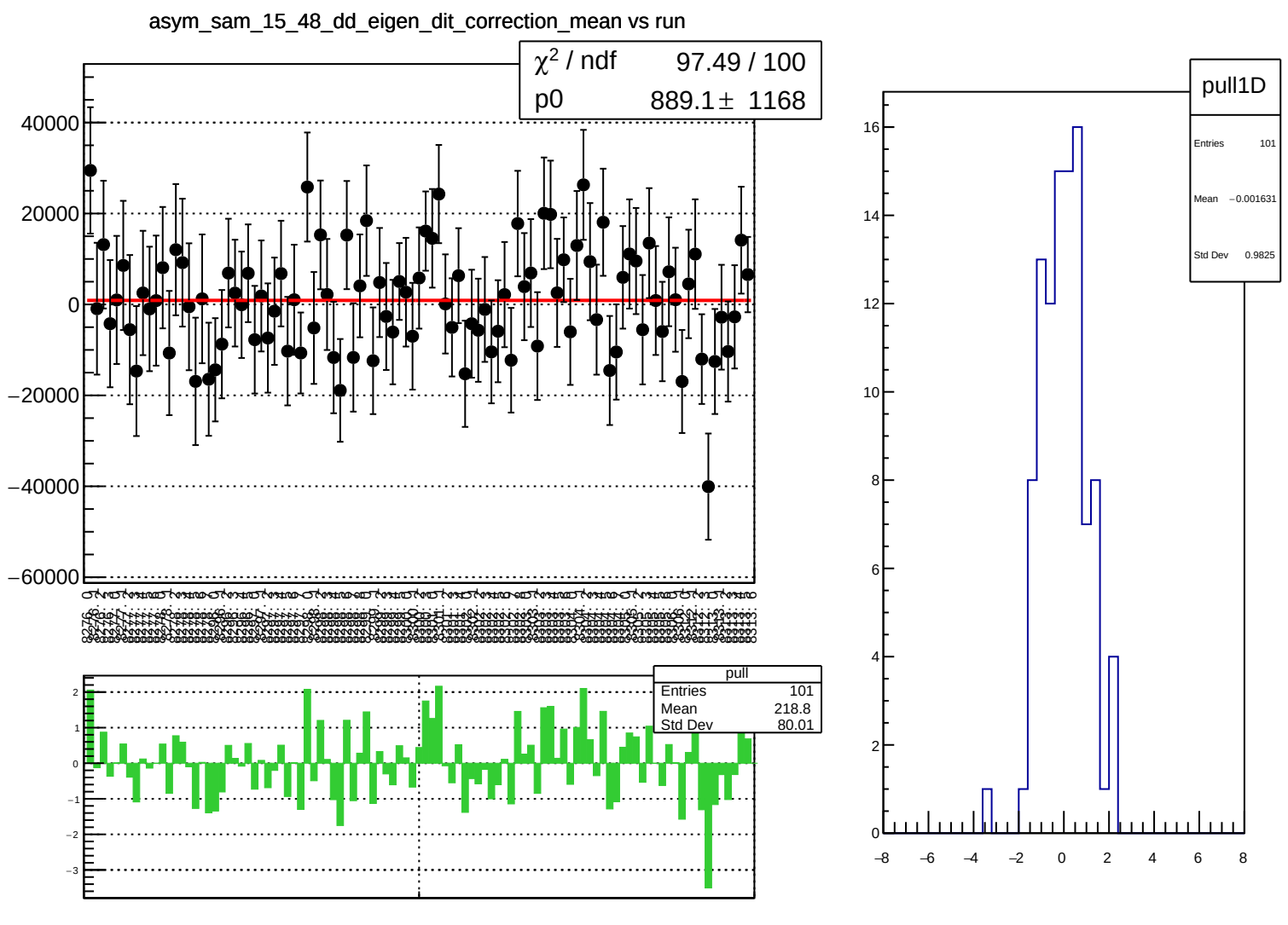

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 97.49 / 100
p0 889.1 ± 1168
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean 218.8
Std Dev 80.02
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean −0.001631
Std Dev 0.9825
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

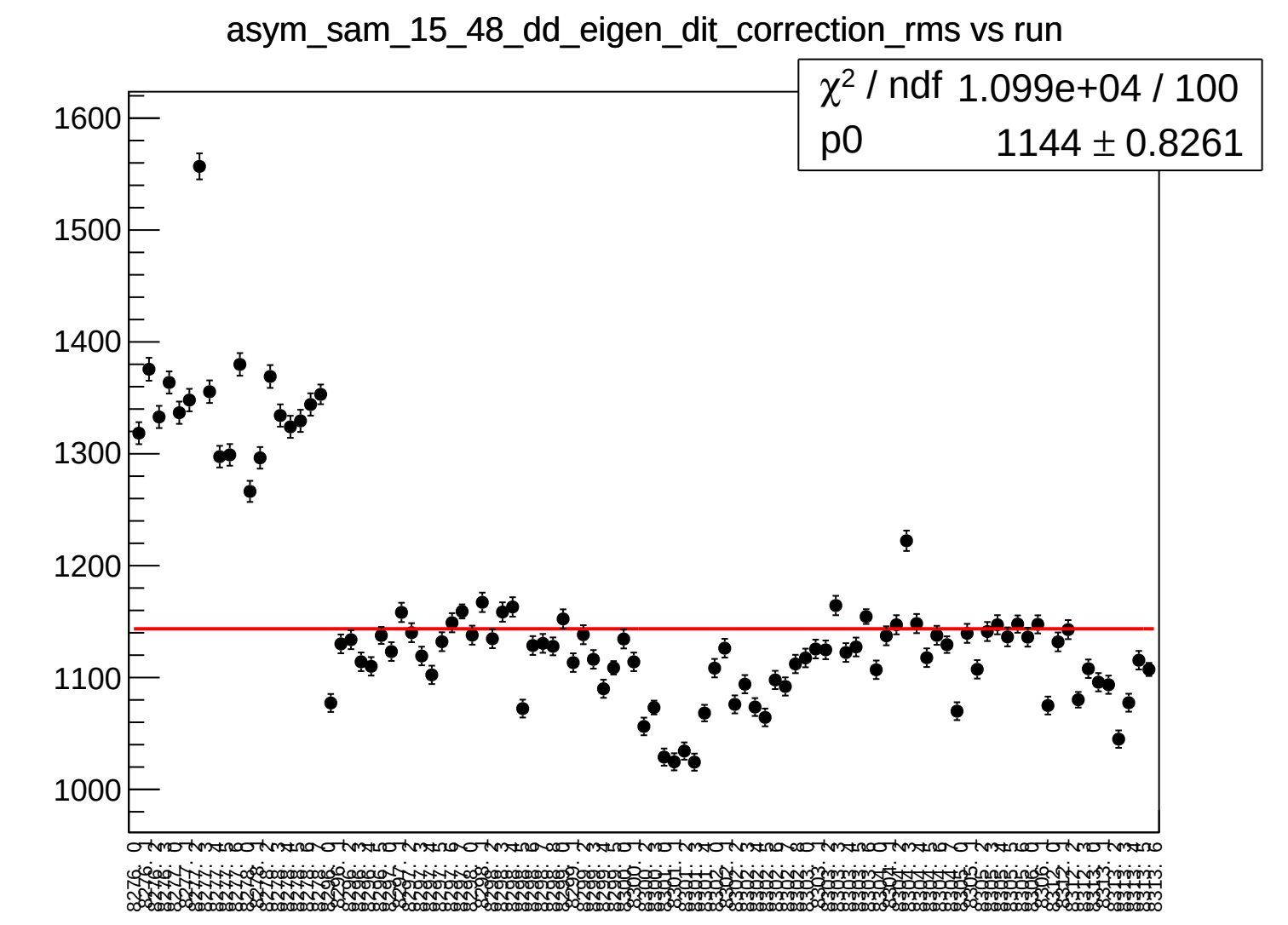

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 1.099e+04 / 100
p0 1144 ± 0.8261
1600
1500
1400
1300
1200
1100
1000

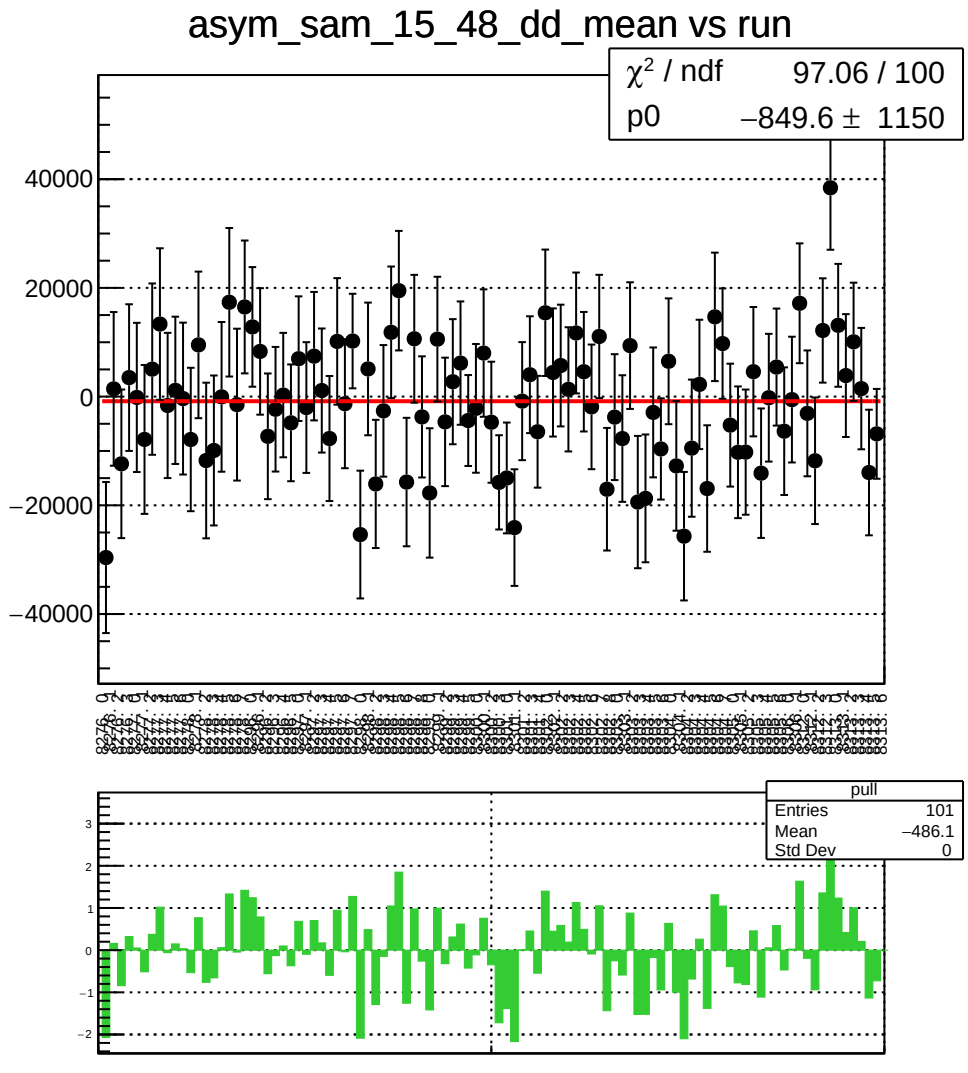

eigen_dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 91.72 / 100
p0 1.906 ± 75.26
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 101
Mean −73.83
Std Dev 0
3
2
1
0
−1
−2

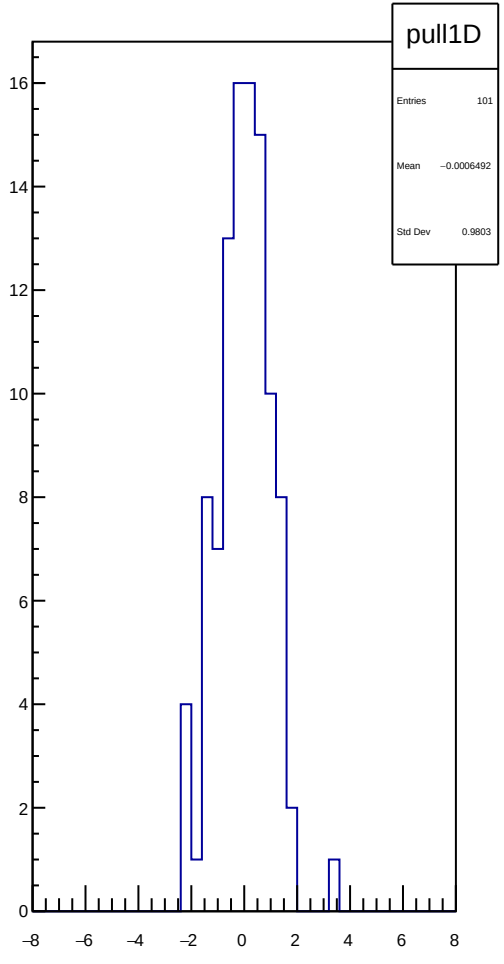

pull1D
Entries 101
Mean −0.009064
Std Dev 0.9529
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

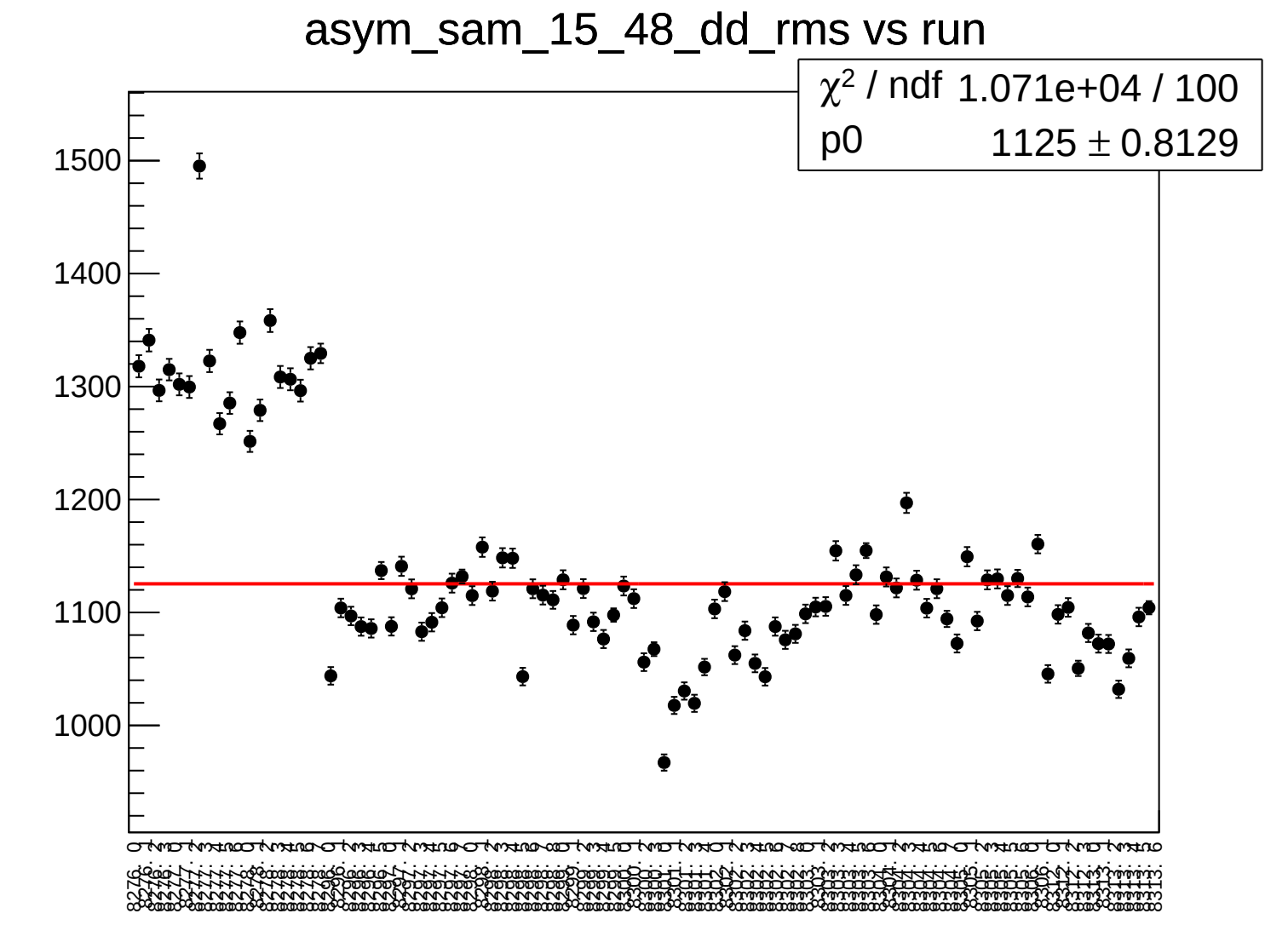

eigen_dit_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 1.794e+04 / 100
p0 73.53 ± 0.05321
110
100
90
80
70
60

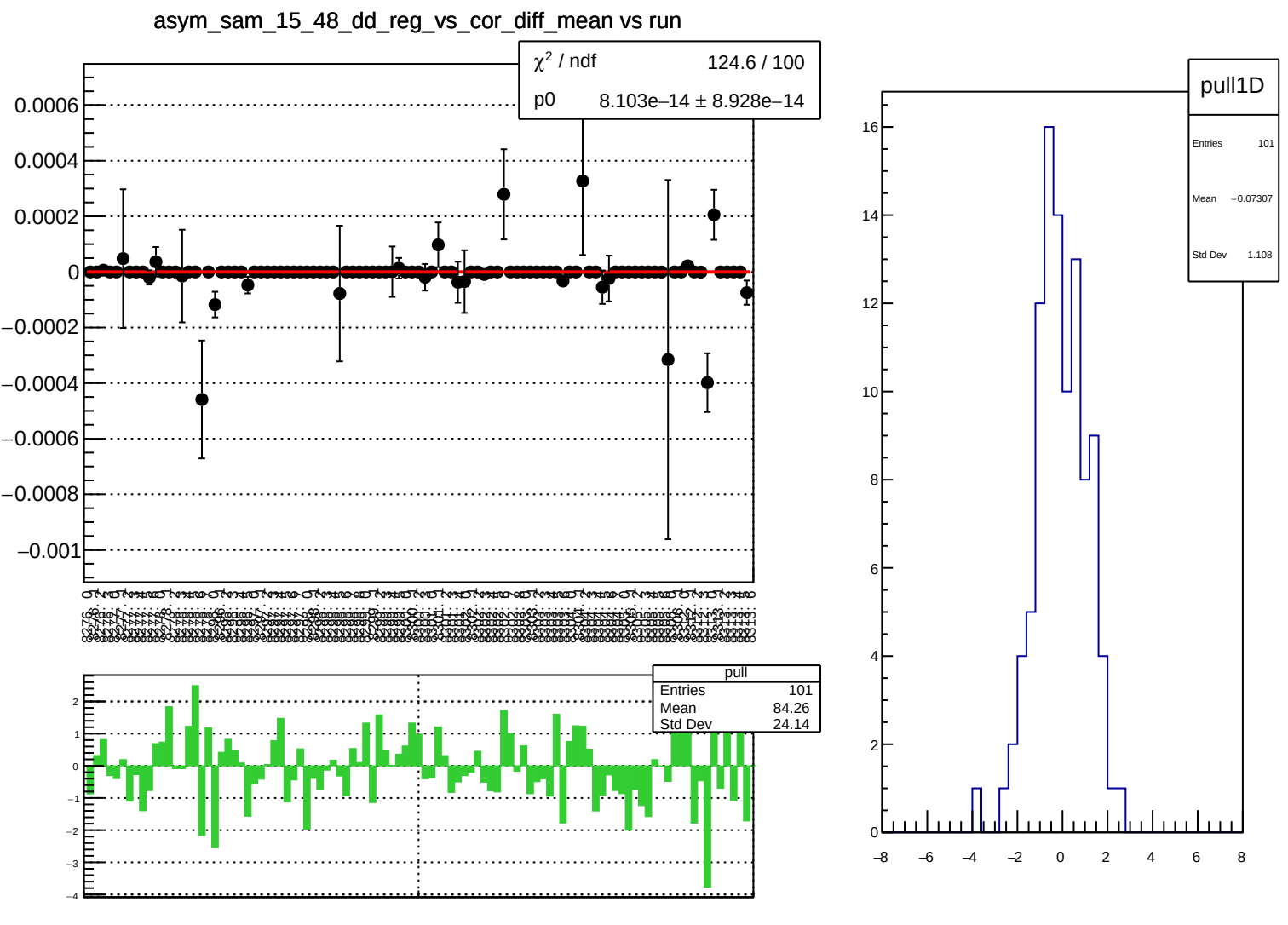

asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 97.49 / 100
p0 889.1 ± 1168
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean 218.8
Std Dev 80.01
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean −0.001631
Std Dev 0.9825
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

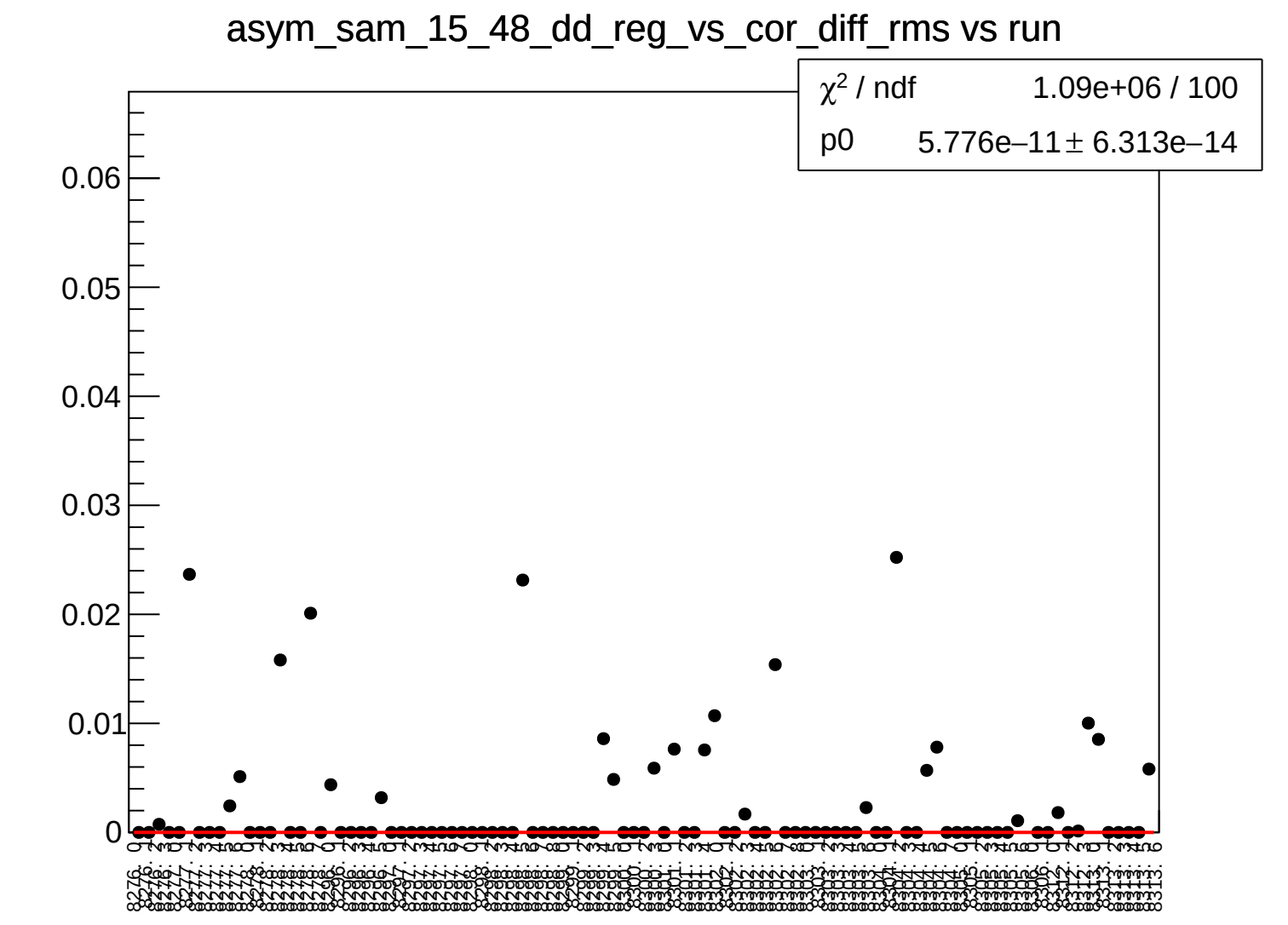

asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.099e+04 / 100
p0 1144 ± 0.8261
1600
1500
1400
1300
1200
1100
1000

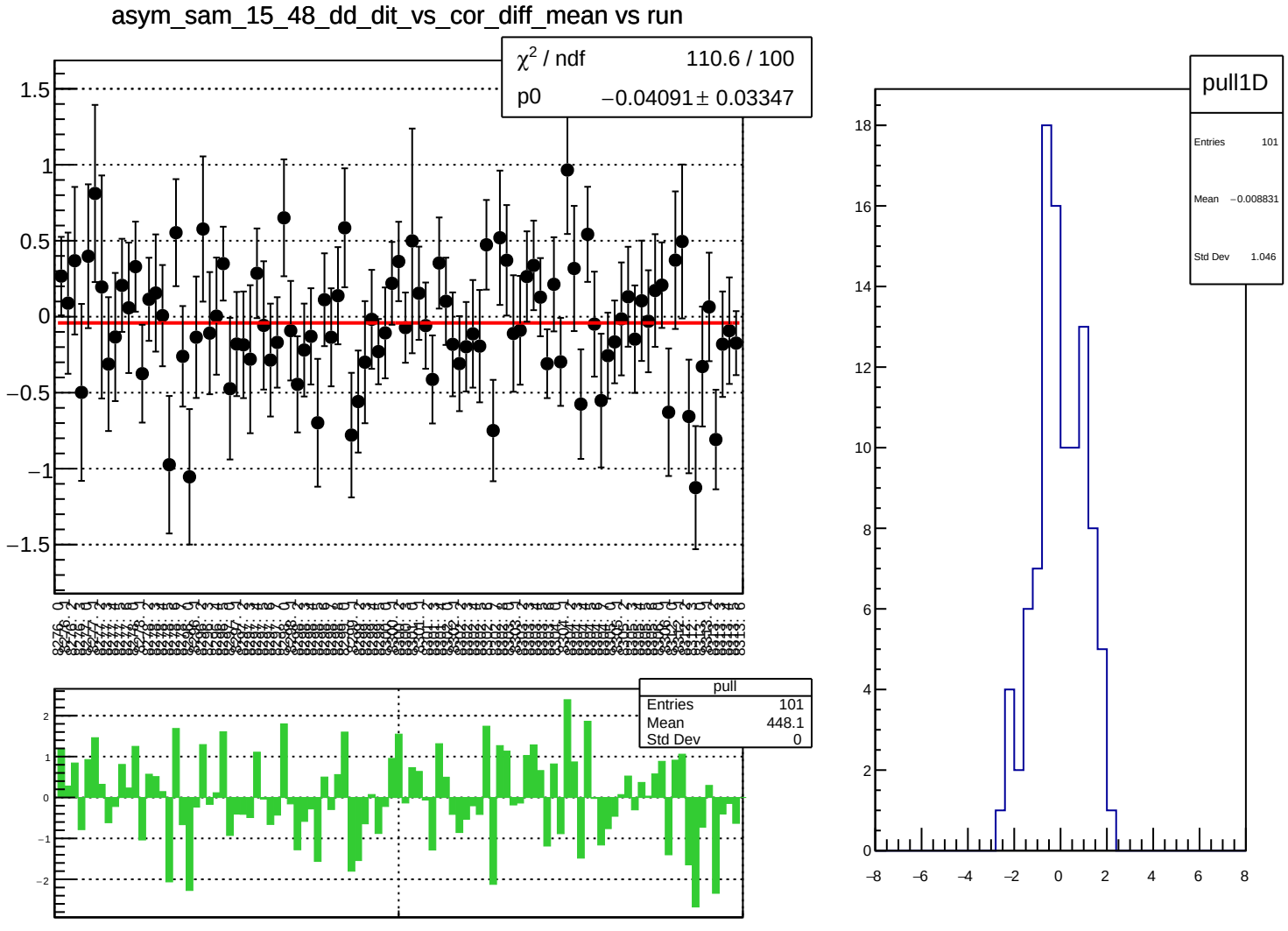

asym_sam_15_48_dd_mean vs run
χ² / ndf 97.06 / 100
p0 −849.6 ± 1150
40000
20000
0
−20000
−40000
pull
Entries 101
Mean −486.1
Std Dev 0
3
2
1
0
−1
−2

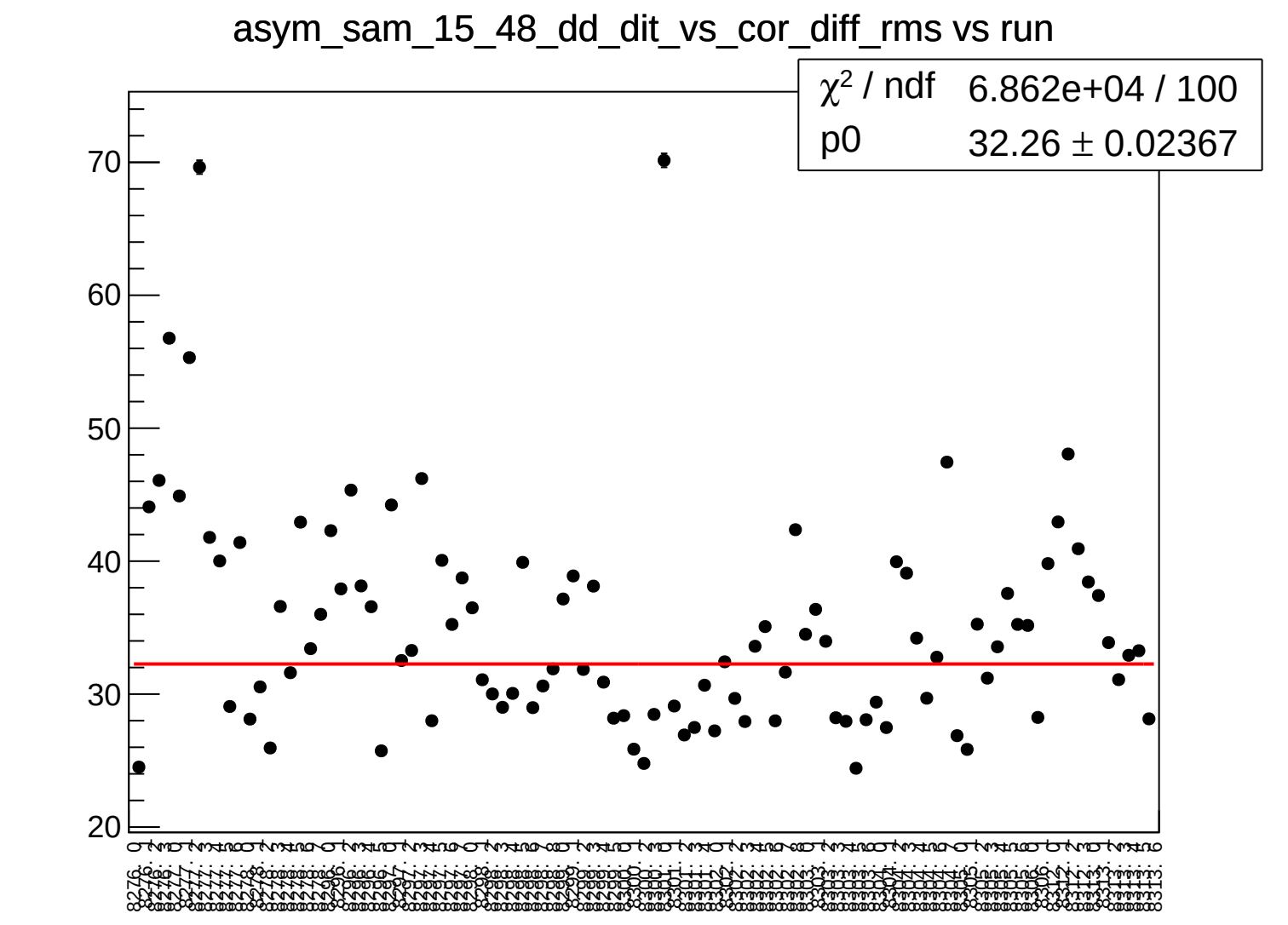

pull1D
Entries 101
Mean −0.0006492
Std Dev 0.9803
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

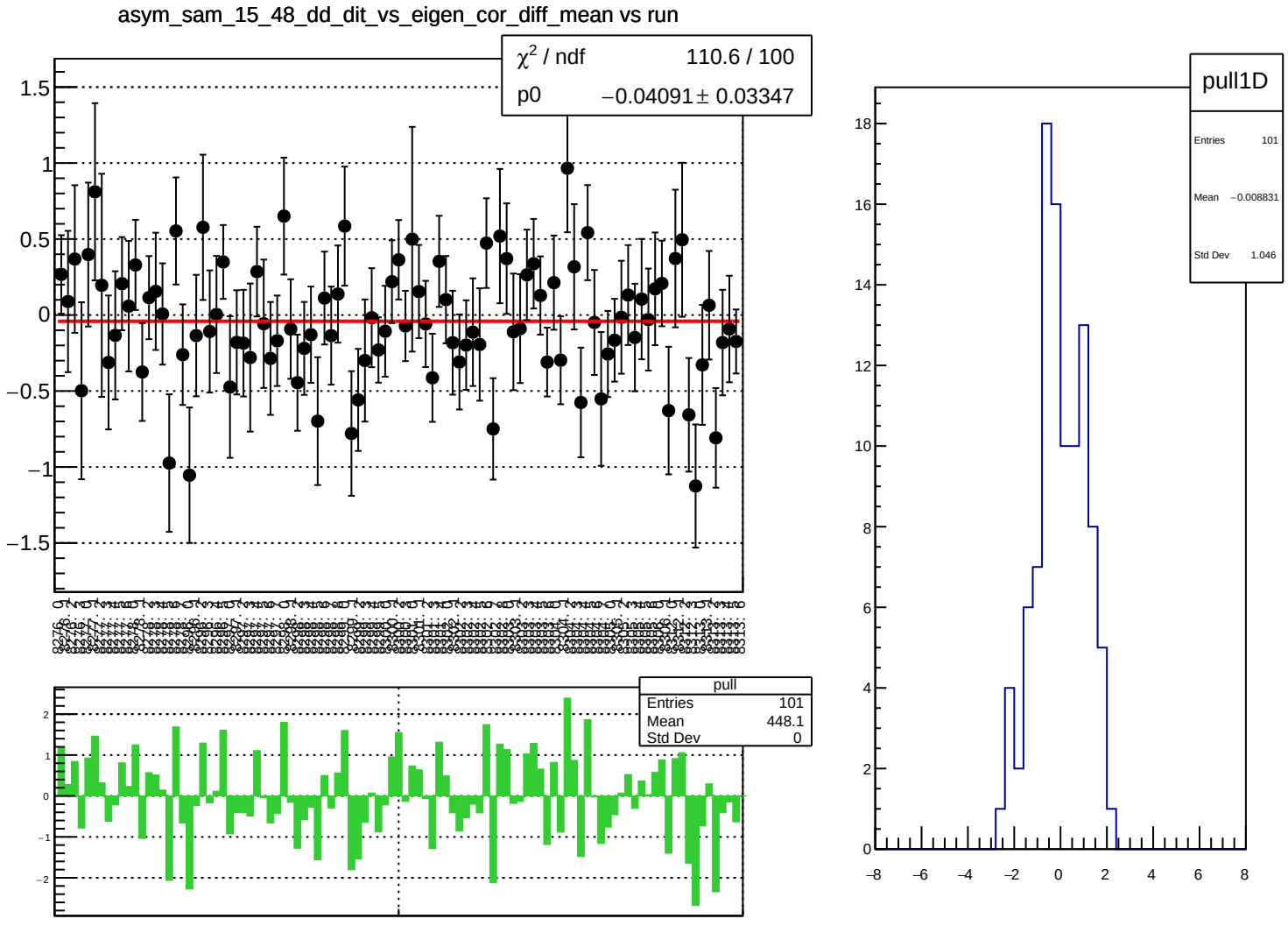

asym_sam_15_48_dd_rms vs run
χ² / ndf 1.071e+04 / 100
p0 1125 ± 0.8129
1500
1400
1300
1200
1100
1000

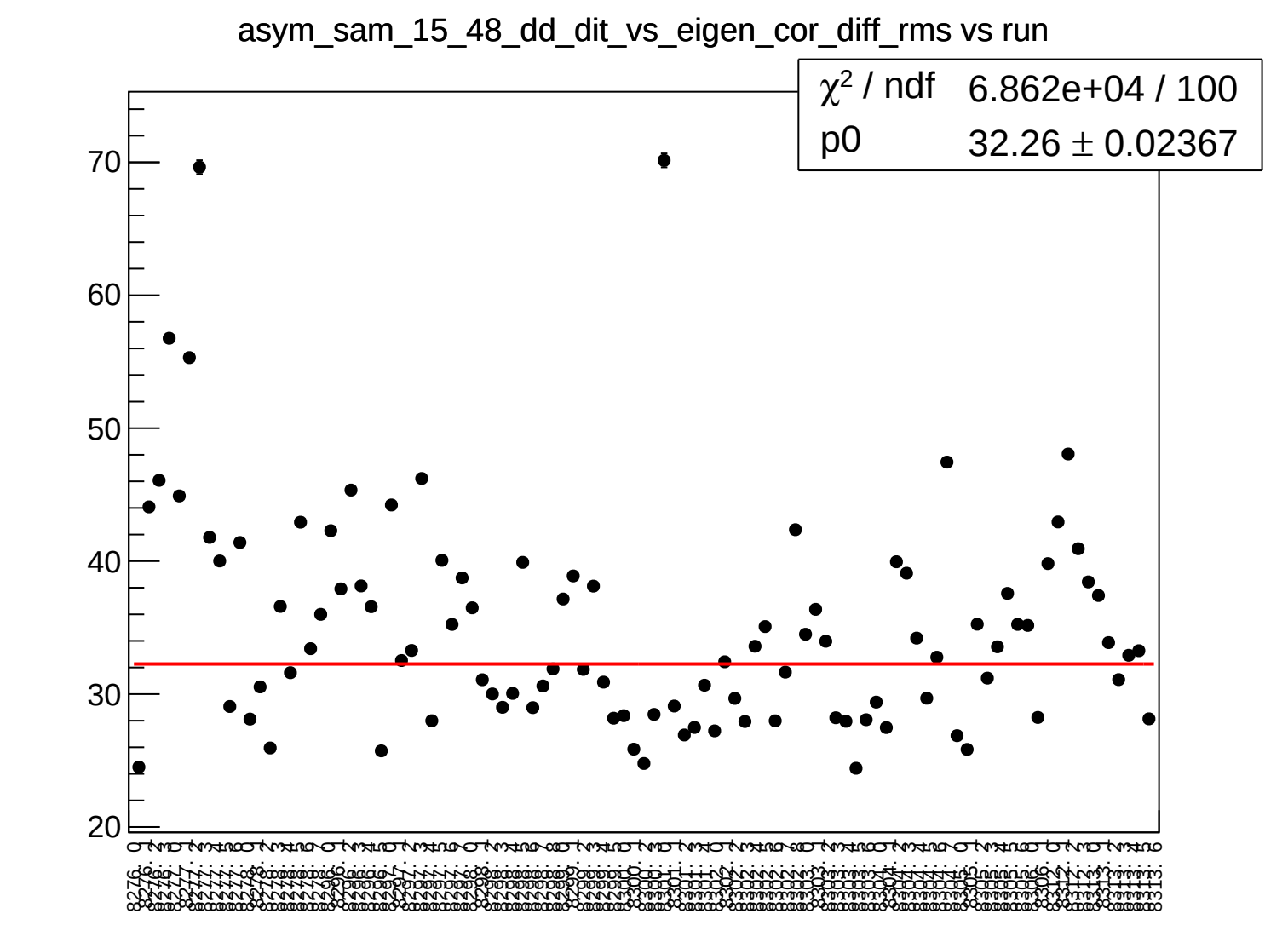

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 124.6 / 100
p0 8.103e−14 ± 8.928e−14
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 101
Mean 84.26
Std Dev 24.14
pull1D
Entries 101
Mean −0.07307
Std Dev 1.108

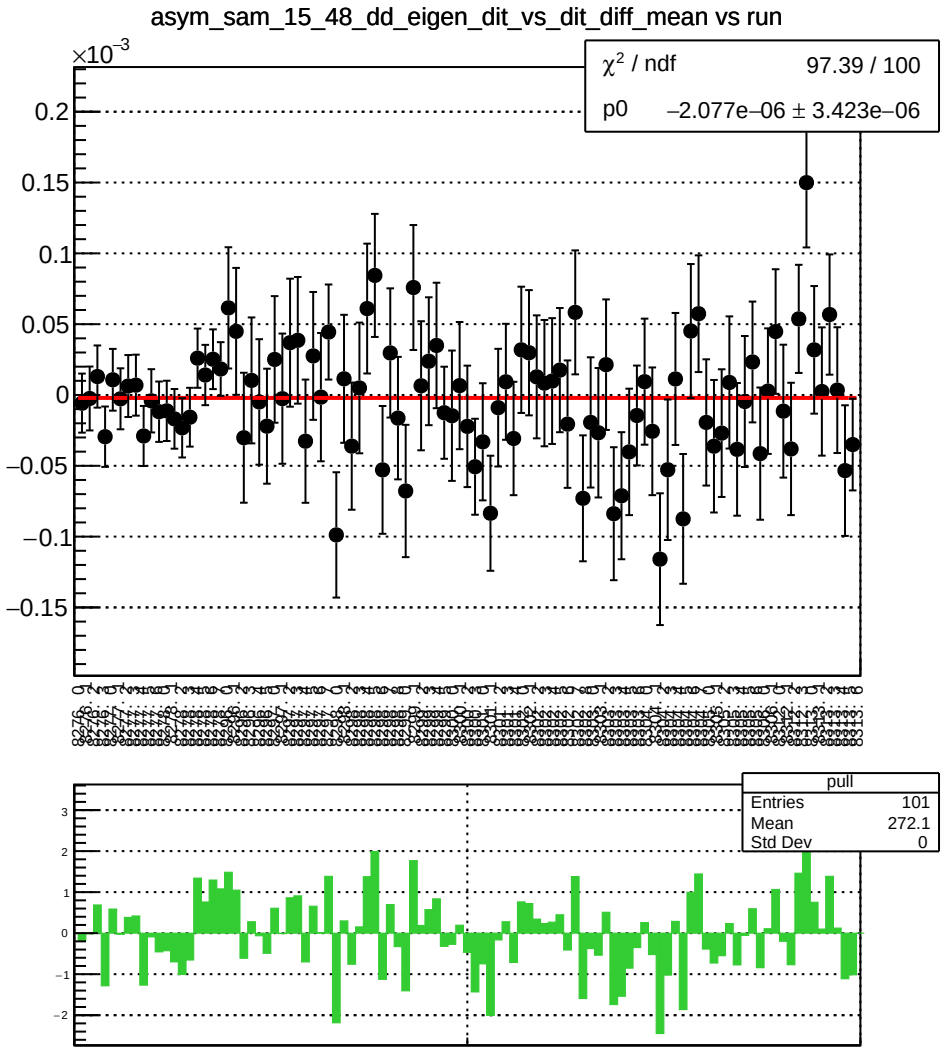

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.09e+06 / 100
p0 5.776e−11 ± 6.313e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

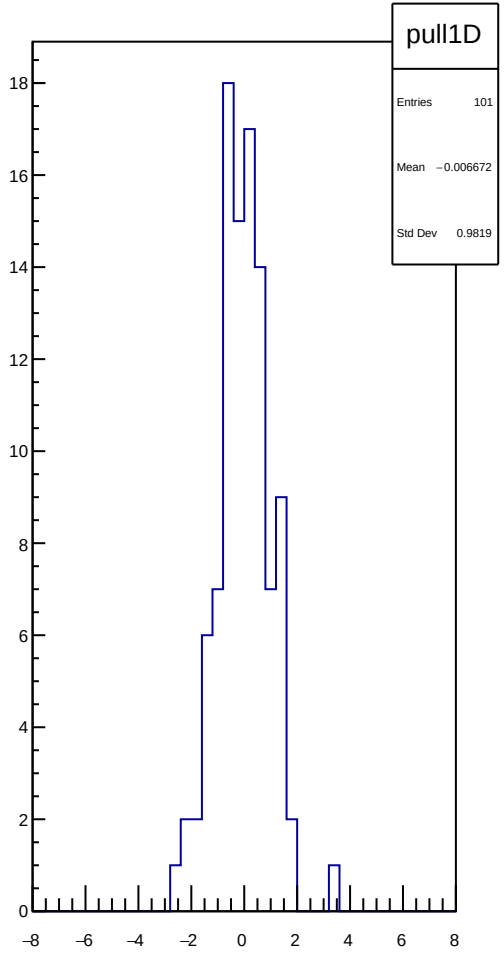

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 110.6 / 100
p0 −0.04091 ± 0.03347
pull
Entries 101
Mean 448.1
Std Dev 0
pull1D
Entries 101
Mean −0.008831
Std Dev 1.046

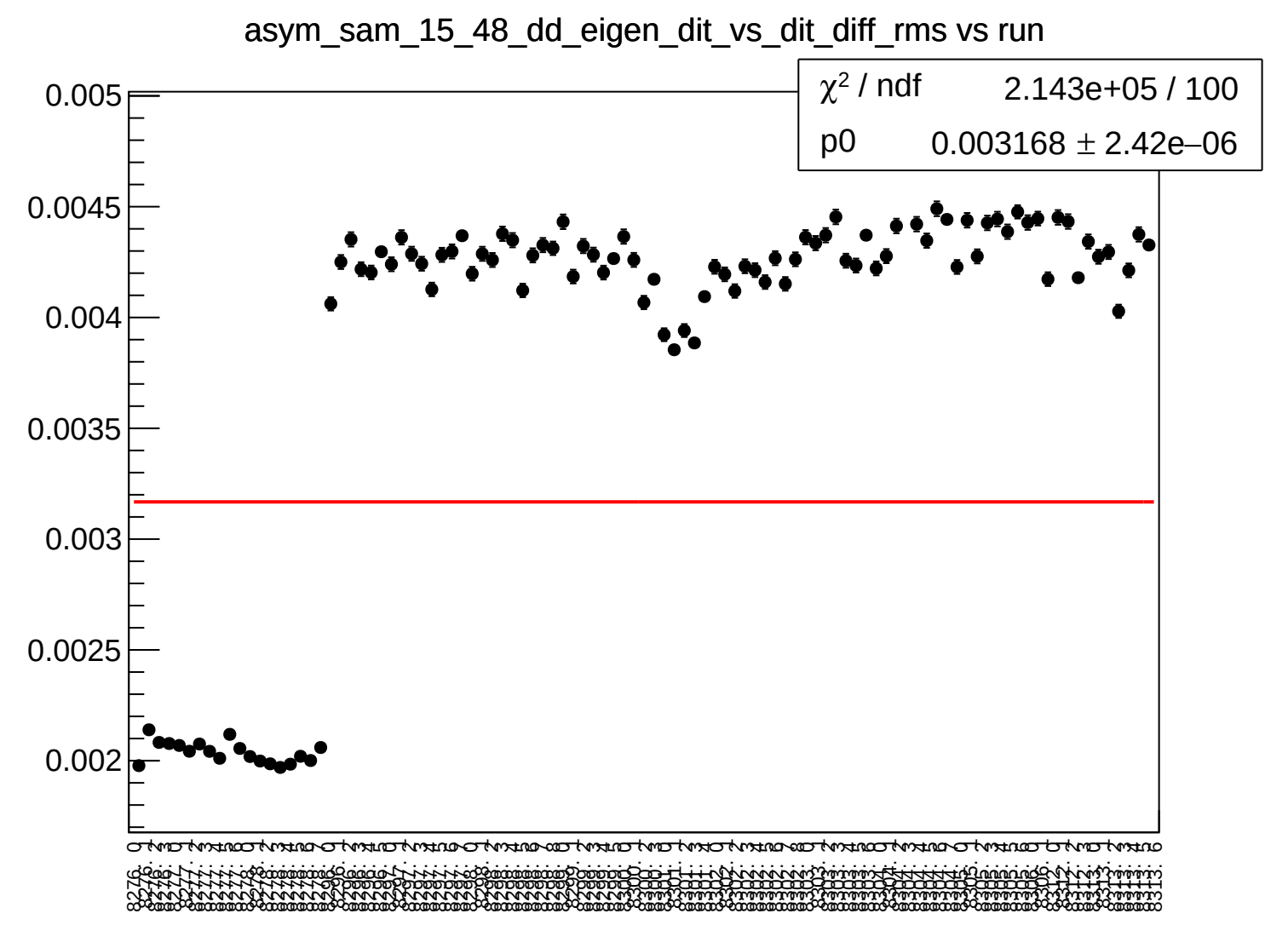

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.862e+04 / 100
p0 32.26 ± 0.02367
70
60
50
40
30
20

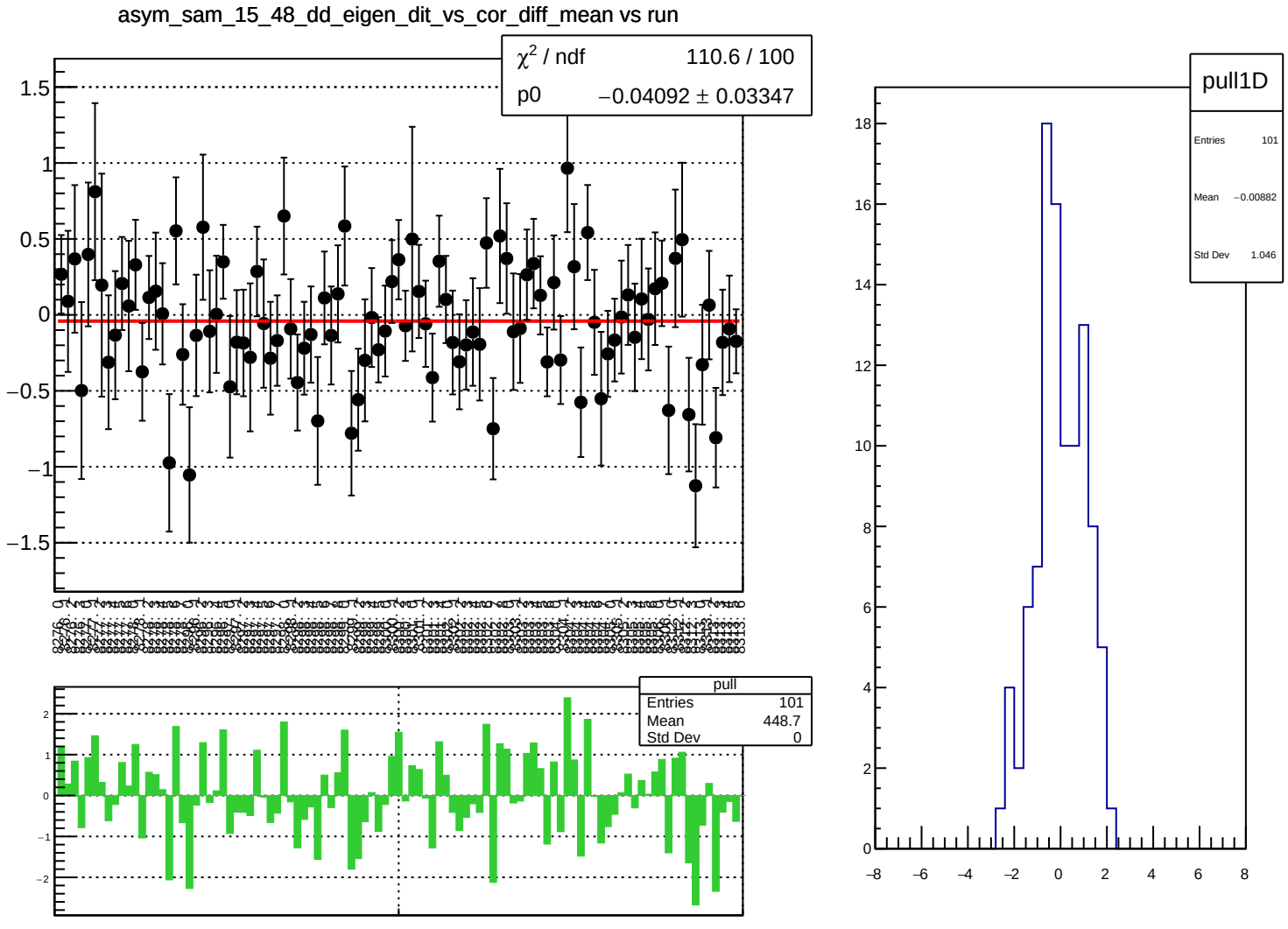

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 110.6 / 100
p0 −0.04091 ± 0.03347
pull
Entries 101
Mean 448.1
Std Dev 0
pull1D
Entries 101
Mean −0.008831
Std Dev 1.046

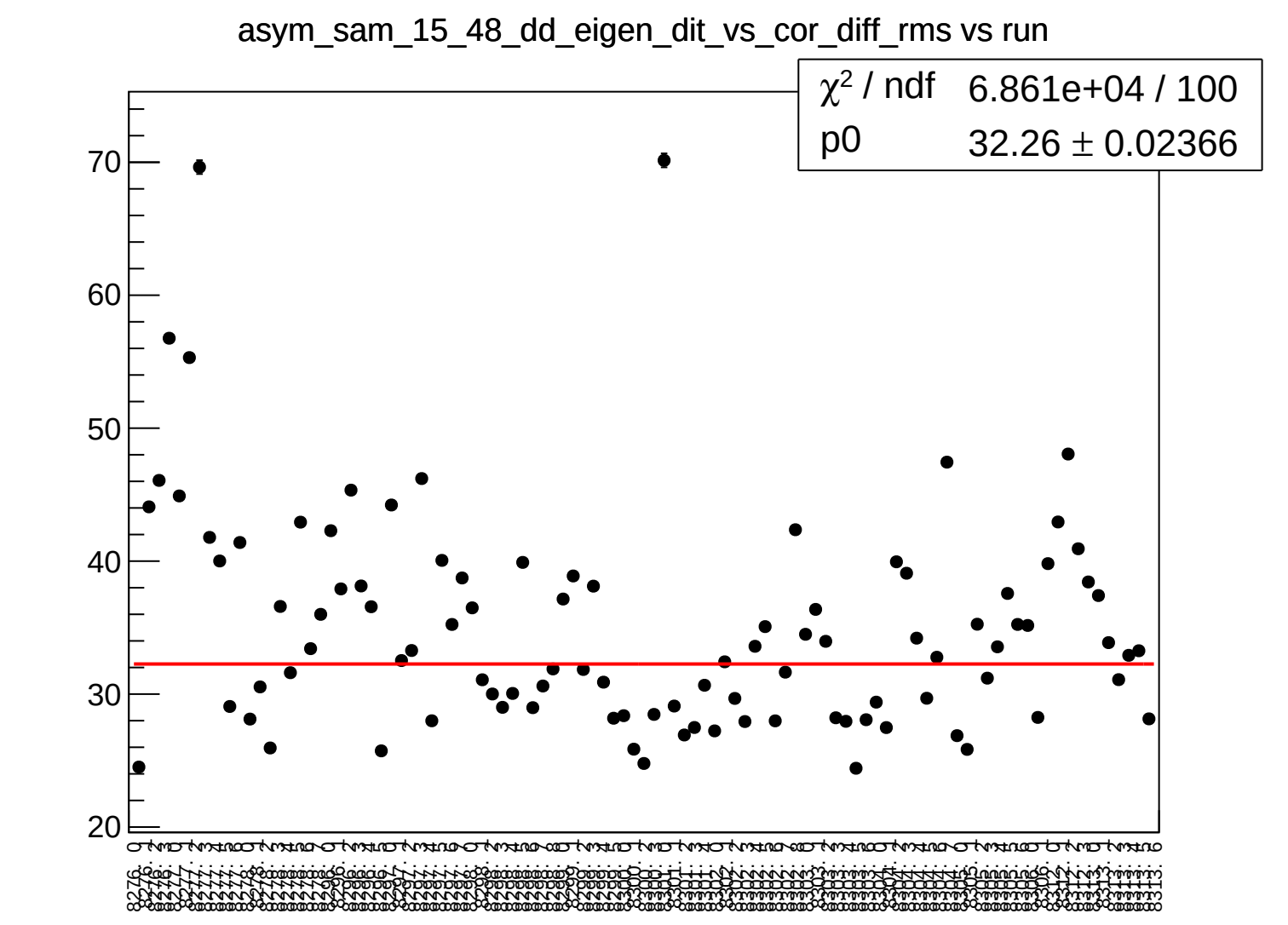

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.862e+04 / 100
p0 32.26 ± 0.02367
70
60
50
40
30
20

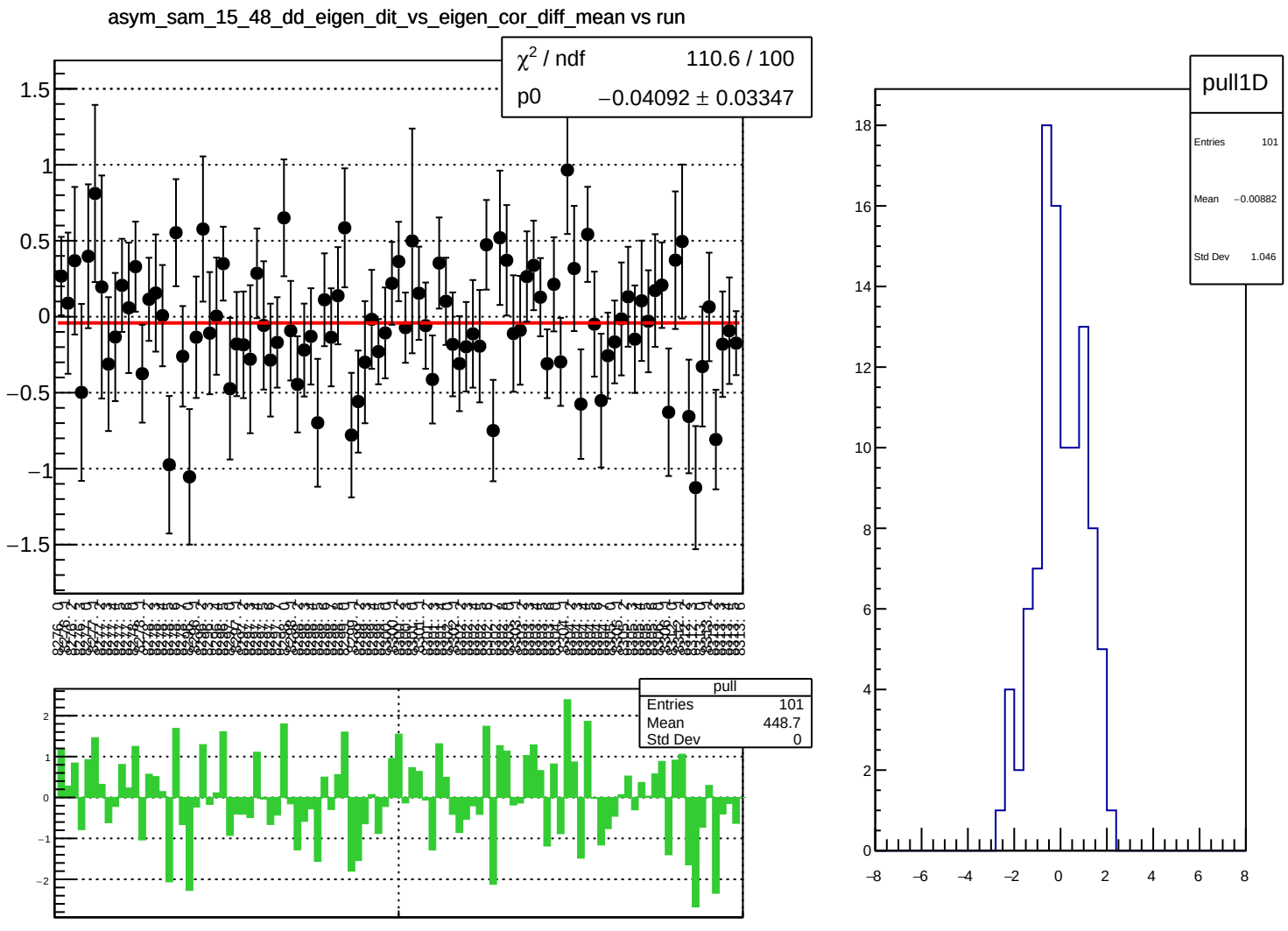

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.39 / 100
p0 −2.077e−06 ± 3.423e−06
pull
Entries 101
Mean 272.1
Std Dev 0

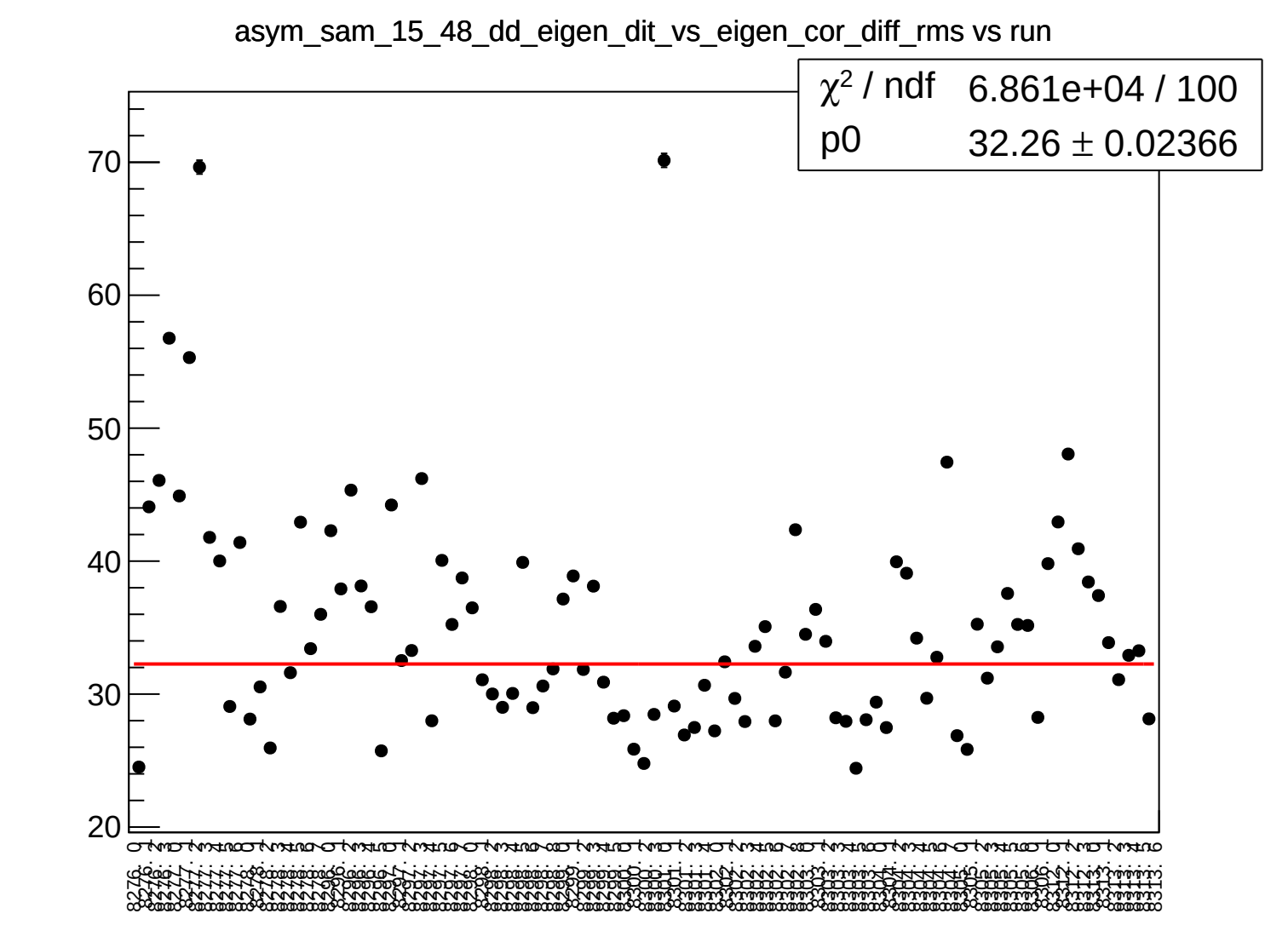

pull1D
Entries 101
Mean −0.006672
Std Dev 0.9819

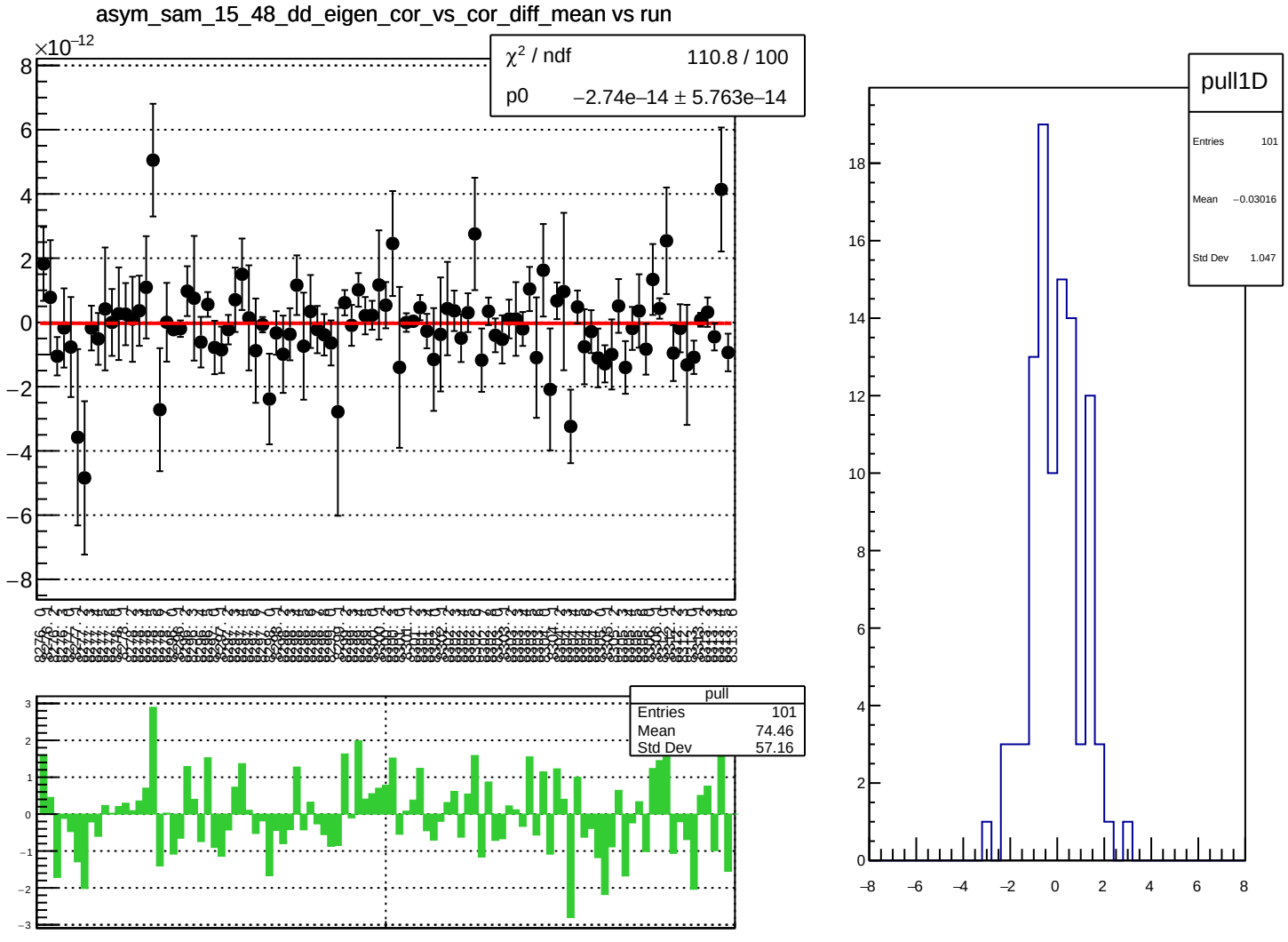

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.143e+05 / 100
p0 0.003168 ± 2.42e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002

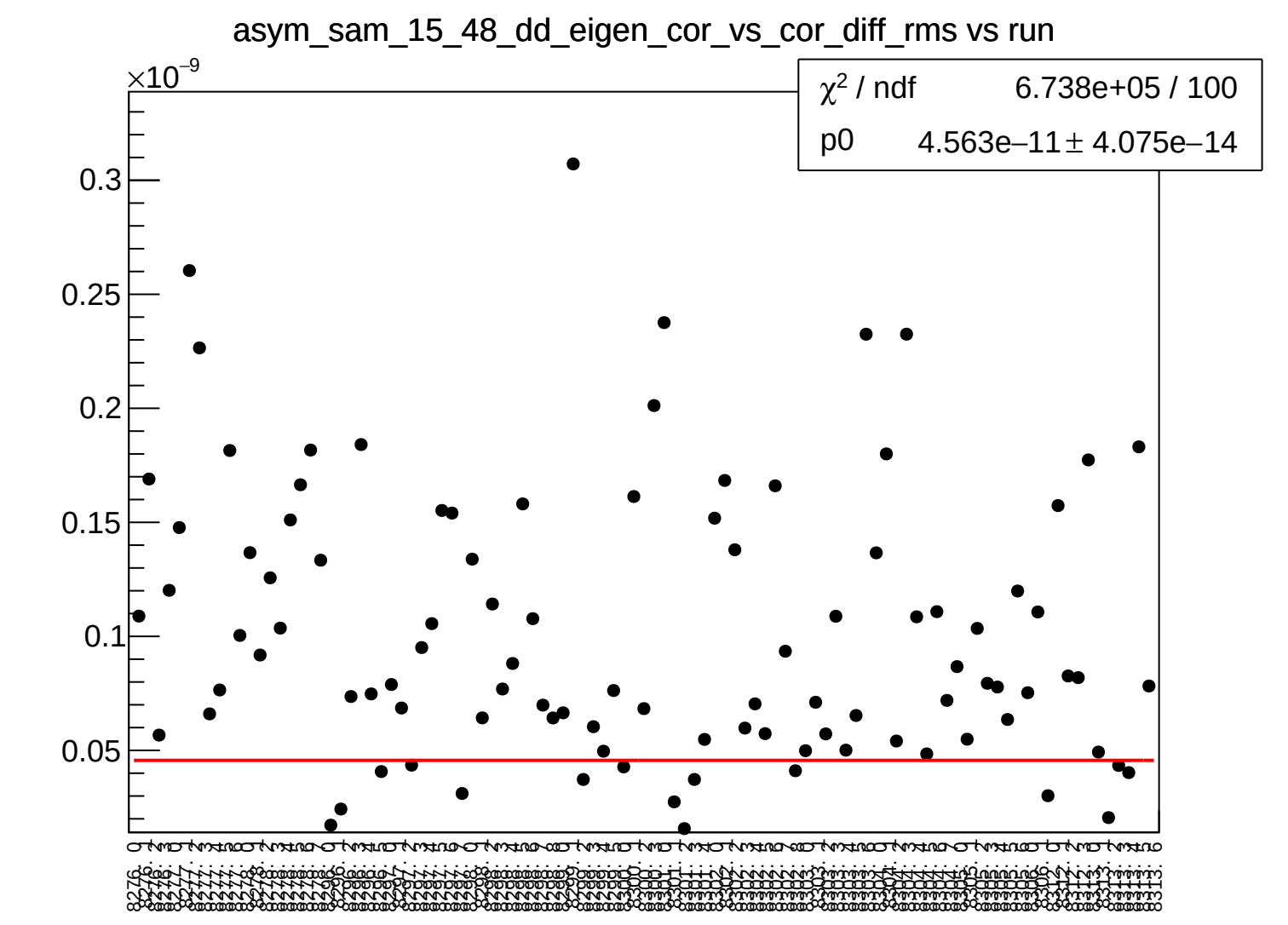

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 110.6 / 100
p0 −0.04092 ± 0.03347
pull
Entries 101
Mean 448.7
Std Dev 0
pull1D
Entries 101
Mean −0.00882
Std Dev 1.046

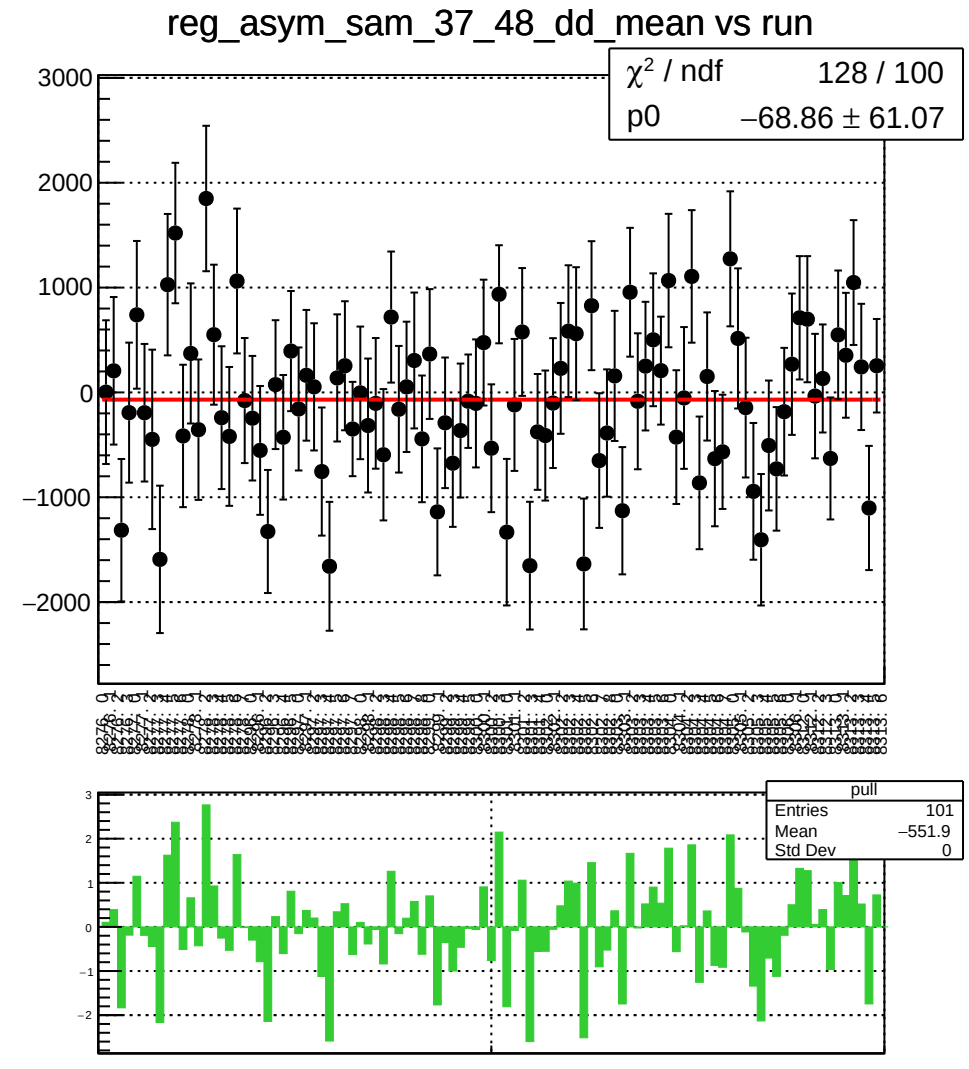

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6.861e+04 / 100
p0 32.26 ± 0.02366
70
60
50
40
30
20

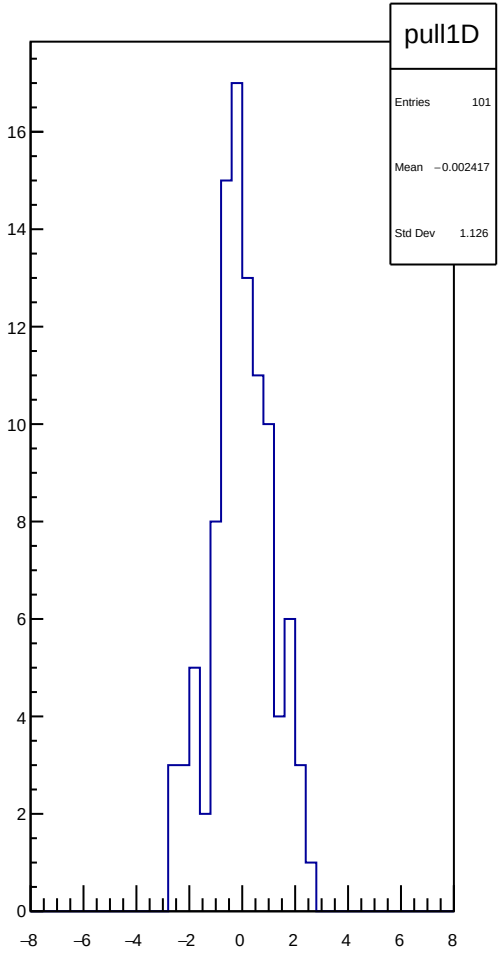

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 110.6 / 100
p0 −0.04092 ± 0.03347
pull
Entries 101
Mean 448.7
Std Dev 0
pull1D
Entries 101
Mean −0.00882
Std Dev 1.046

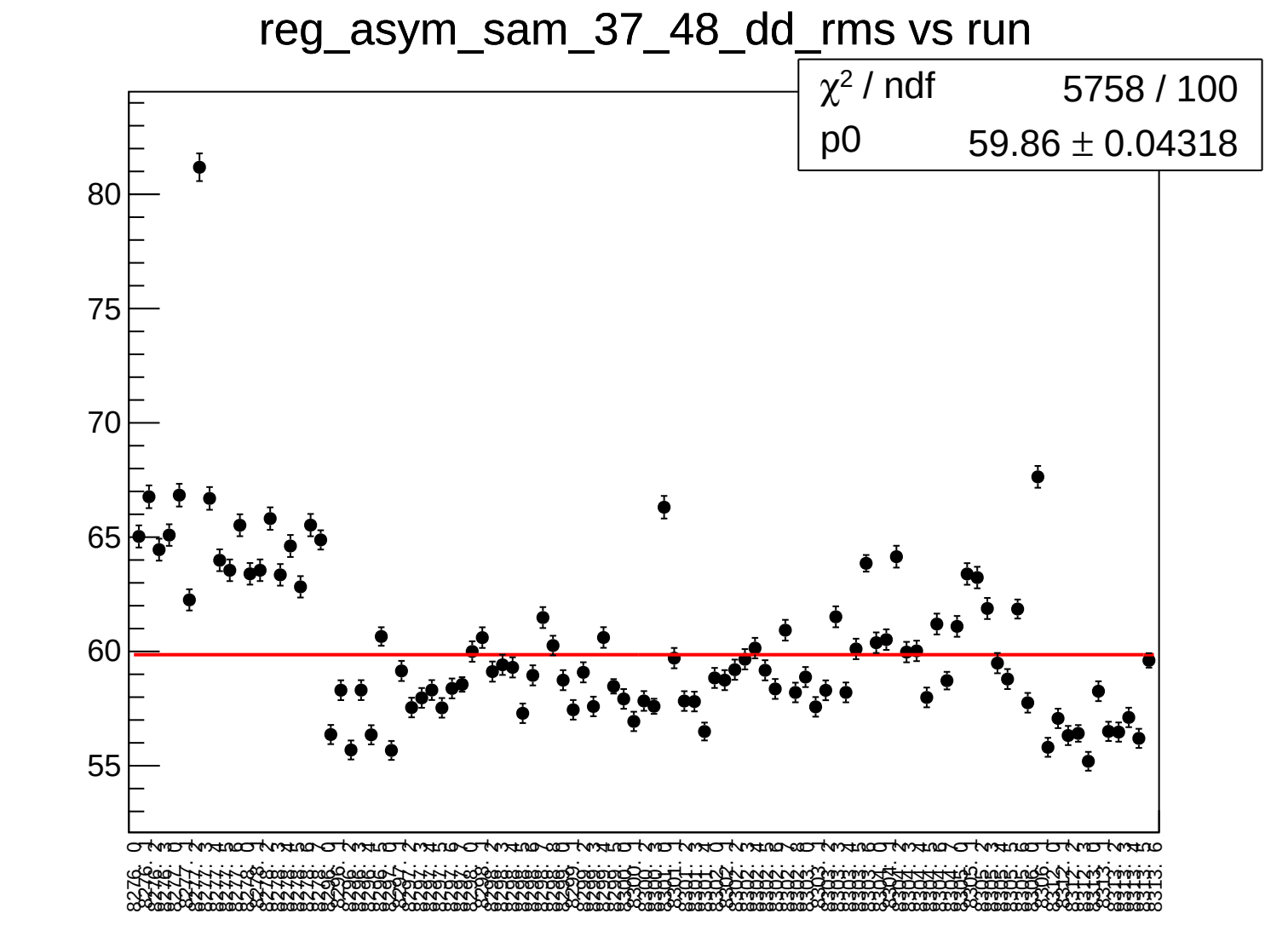

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.861e+04 / 100
p0 32.26 ± 0.02366
70
60
50
40
30
20

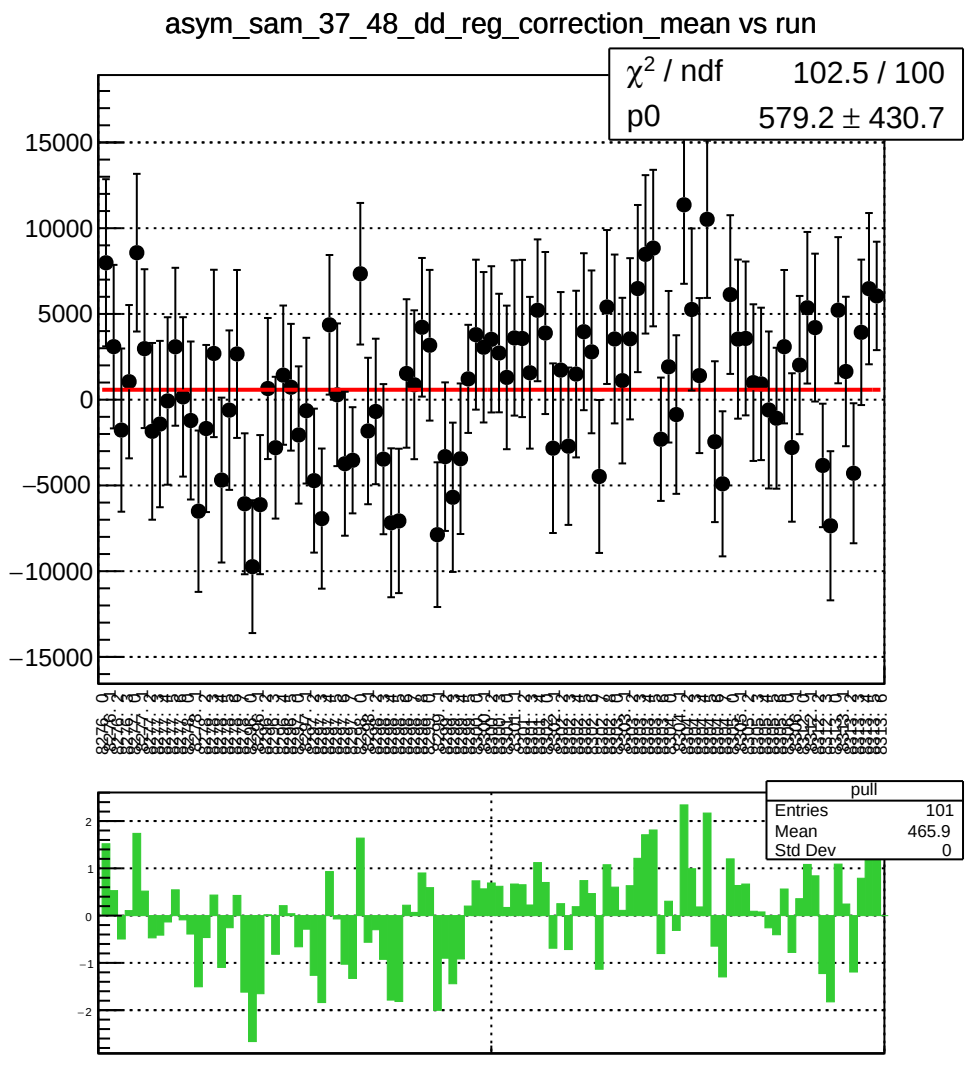

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 110.8 / 100
p0 −2.74e−14 ± 5.763e−14
pull
Entries 101
Mean 74.46
Std Dev 57.16
pull1D
Entries 101
Mean −0.03016
Std Dev 1.047

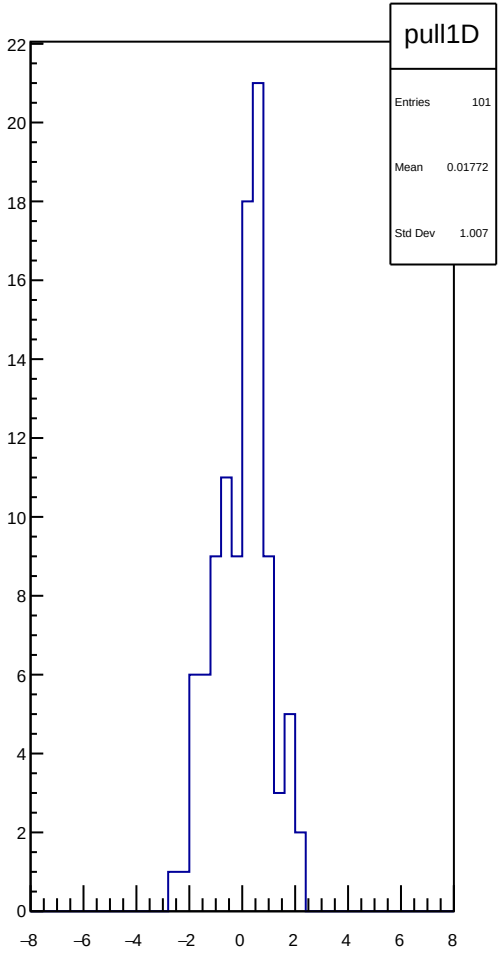

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.738e+05 / 100
p0 4.563e−11 ± 4.075e−14
0.3
0.25
0.2
0.15
0.1
0.05

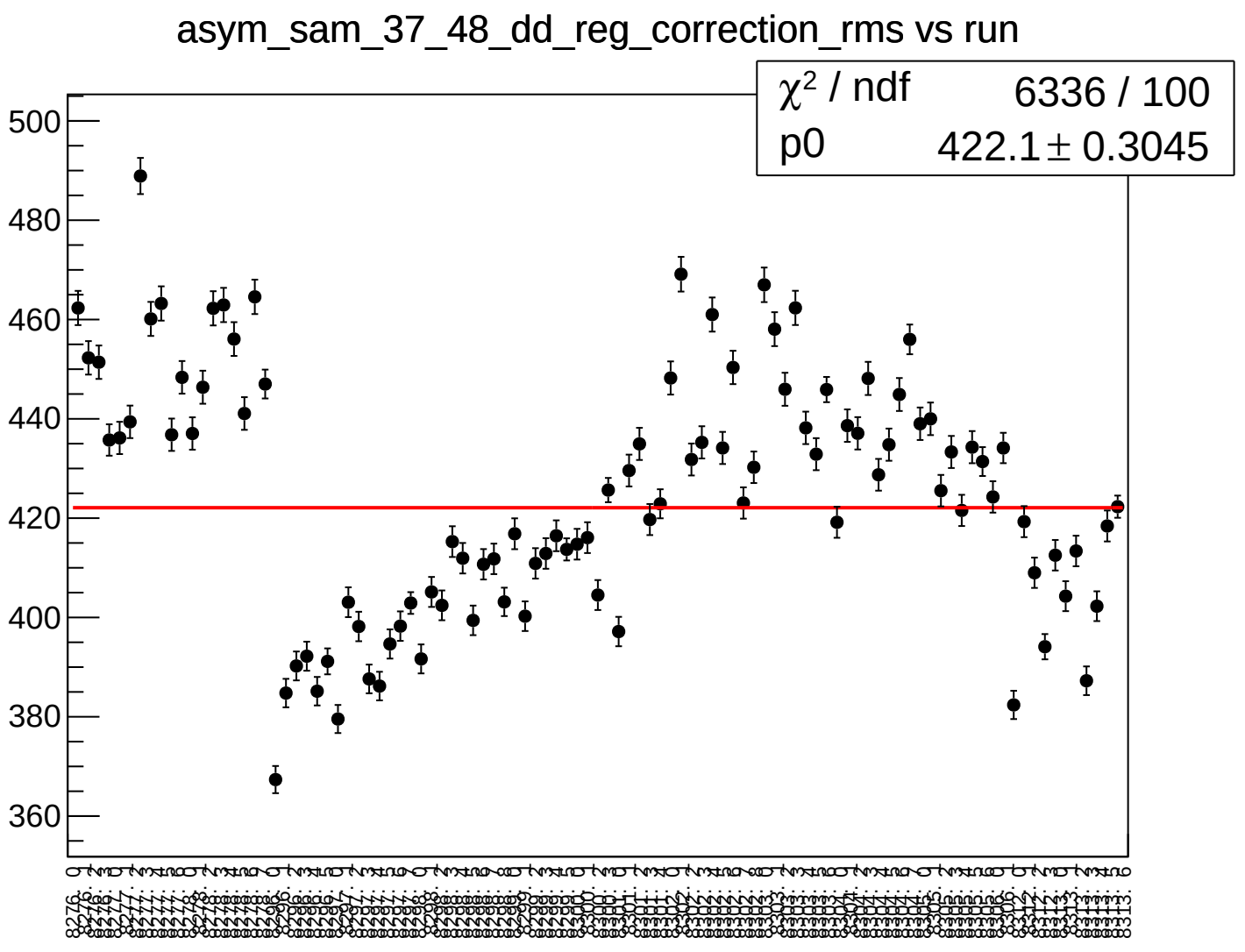

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 128 / 100
p0 −68.86 ± 61.07
3000
2000
1000
0
−1000
−2000
pull
Entries 101
Mean −551.9
Std Dev 0
3
2
1
0
−1
−2

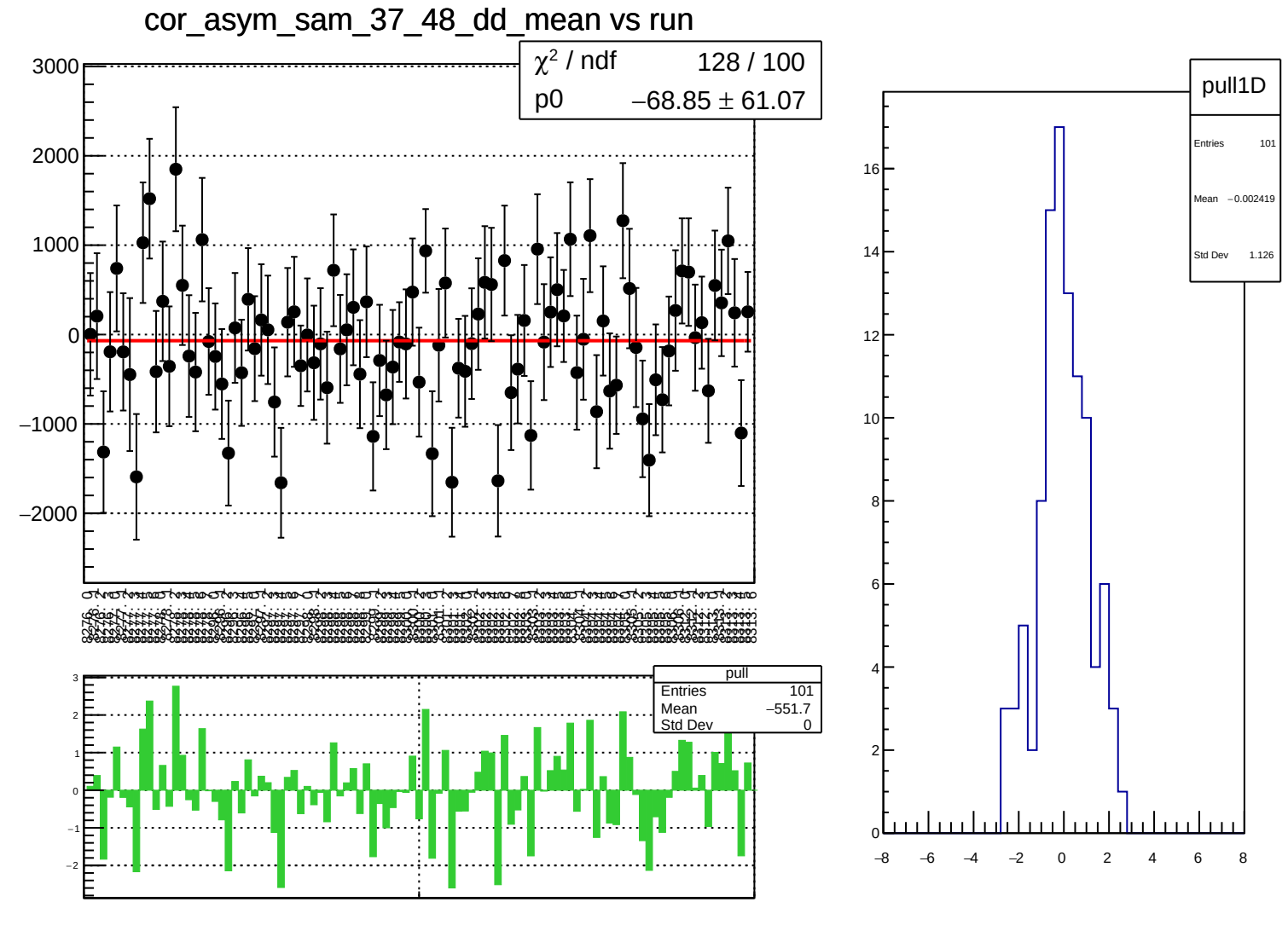

pull1D
Entries 101
Mean −0.002417
Std Dev 1.126
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

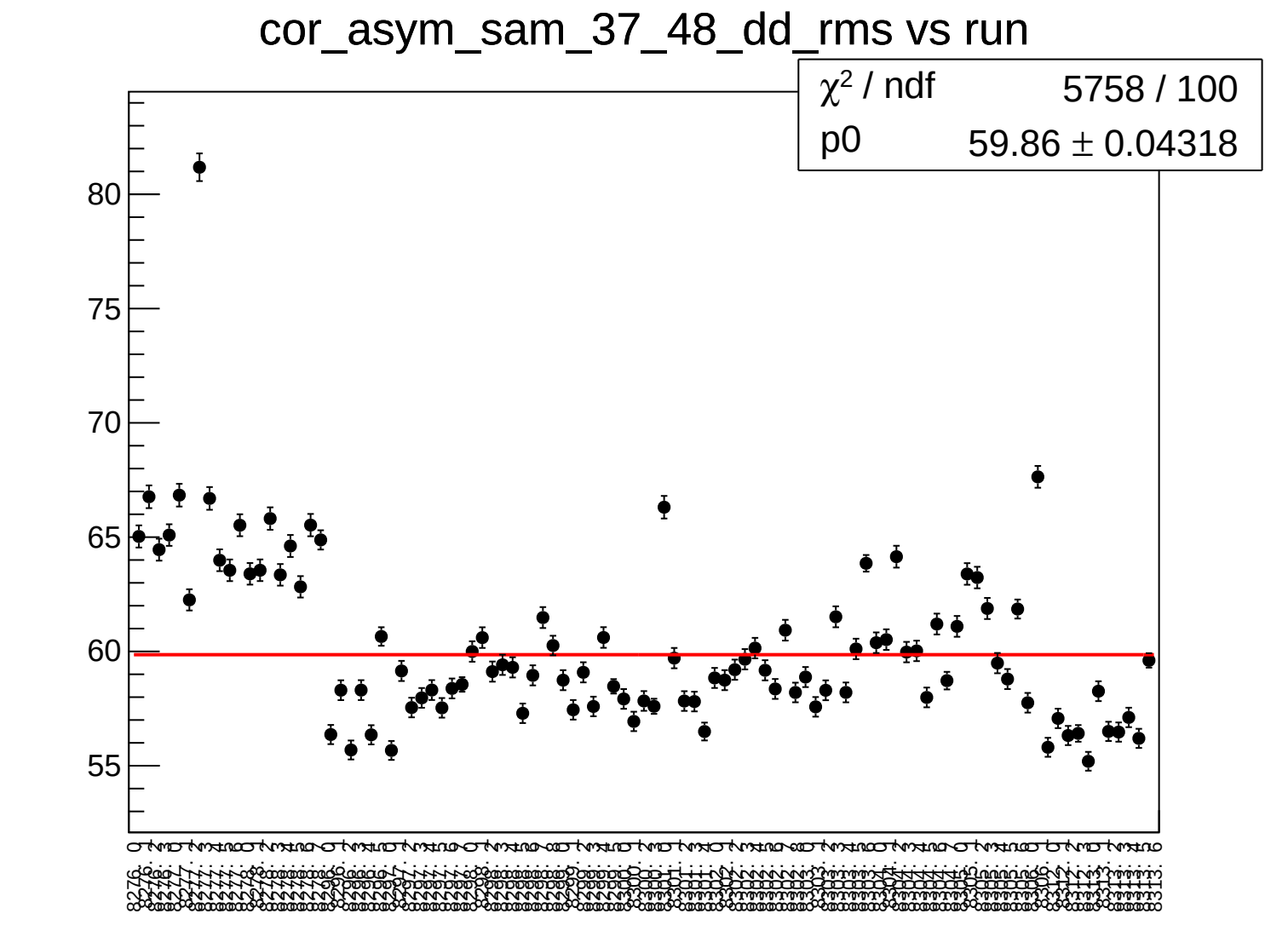

reg_asym_sam_37_48_dd_rms vs run
χ² / ndf 5758 / 100
p0 59.86 ± 0.04318
80
75
70
65
60
55

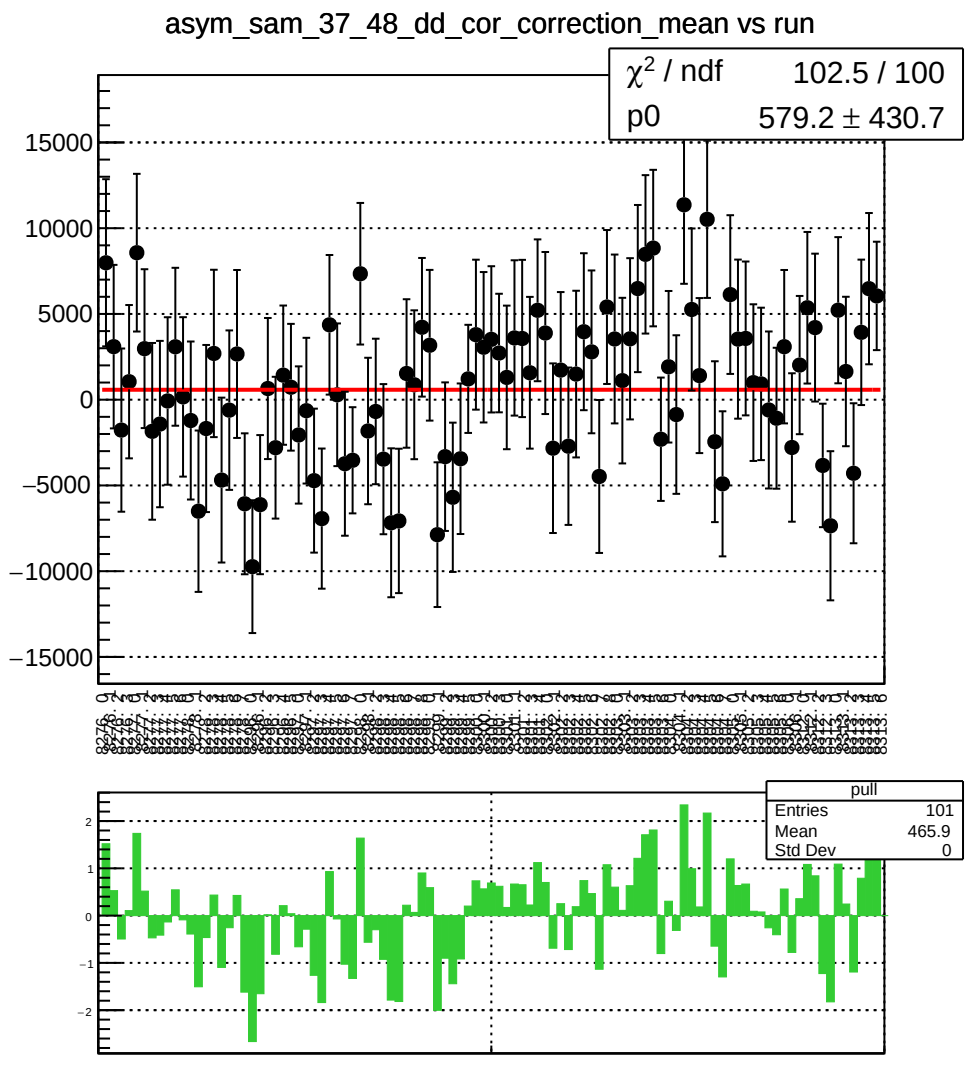

asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 102.5 / 100
p0 579.2 ± 430.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 101
Mean 465.9
Std Dev 0
2
1
0
−1
−2

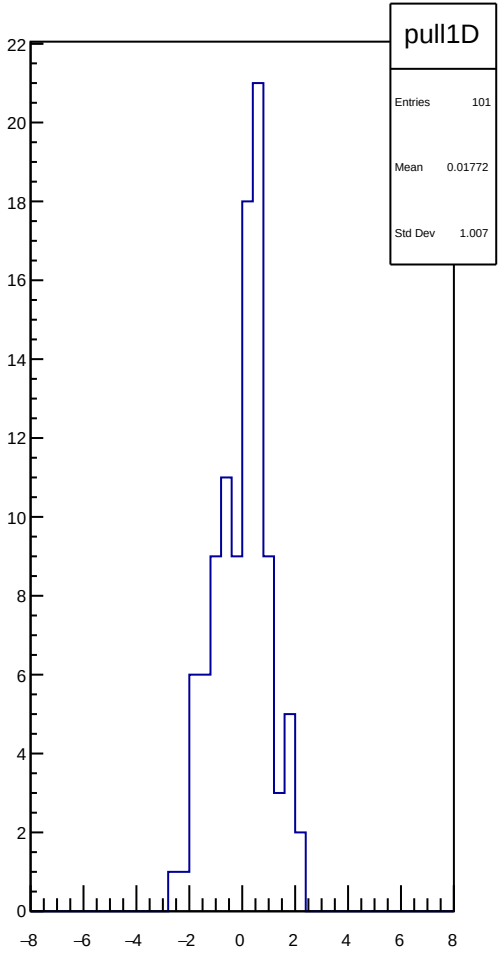

pull1D
Entries 101
Mean 0.01772
Std Dev 1.007
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

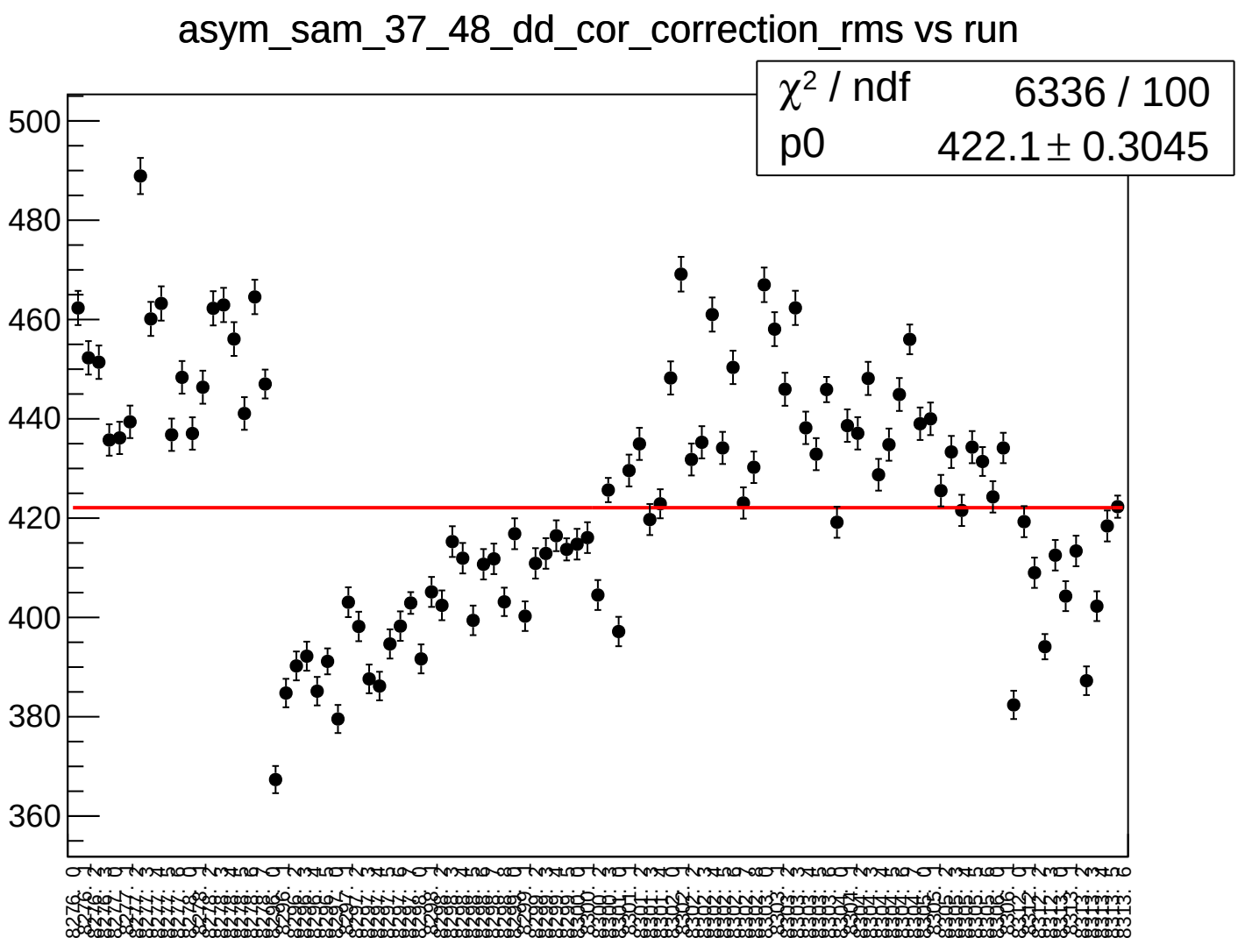

asym_sam_37_48_dd_reg_correction_rms vs run
χ² / ndf 6336 / 100
p0 422.1 ± 0.3045
500
480
460
440
420
400
380
360

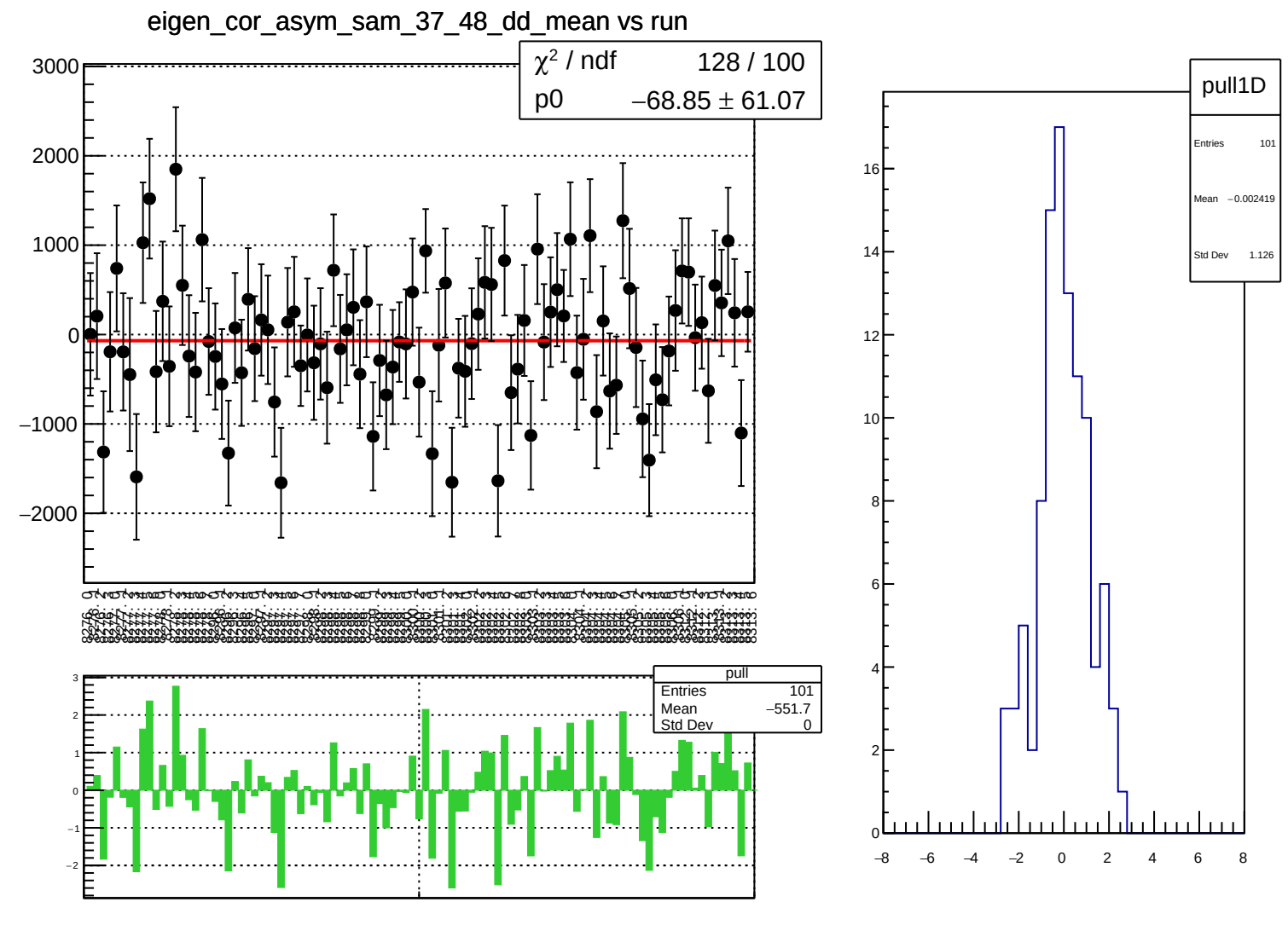

cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 128 / 100
p0 −68.85 ± 61.07
3000
2000
1000
0
−1000
−2000
pull
Entries 101
Mean −551.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.002419
Std Dev 1.126
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

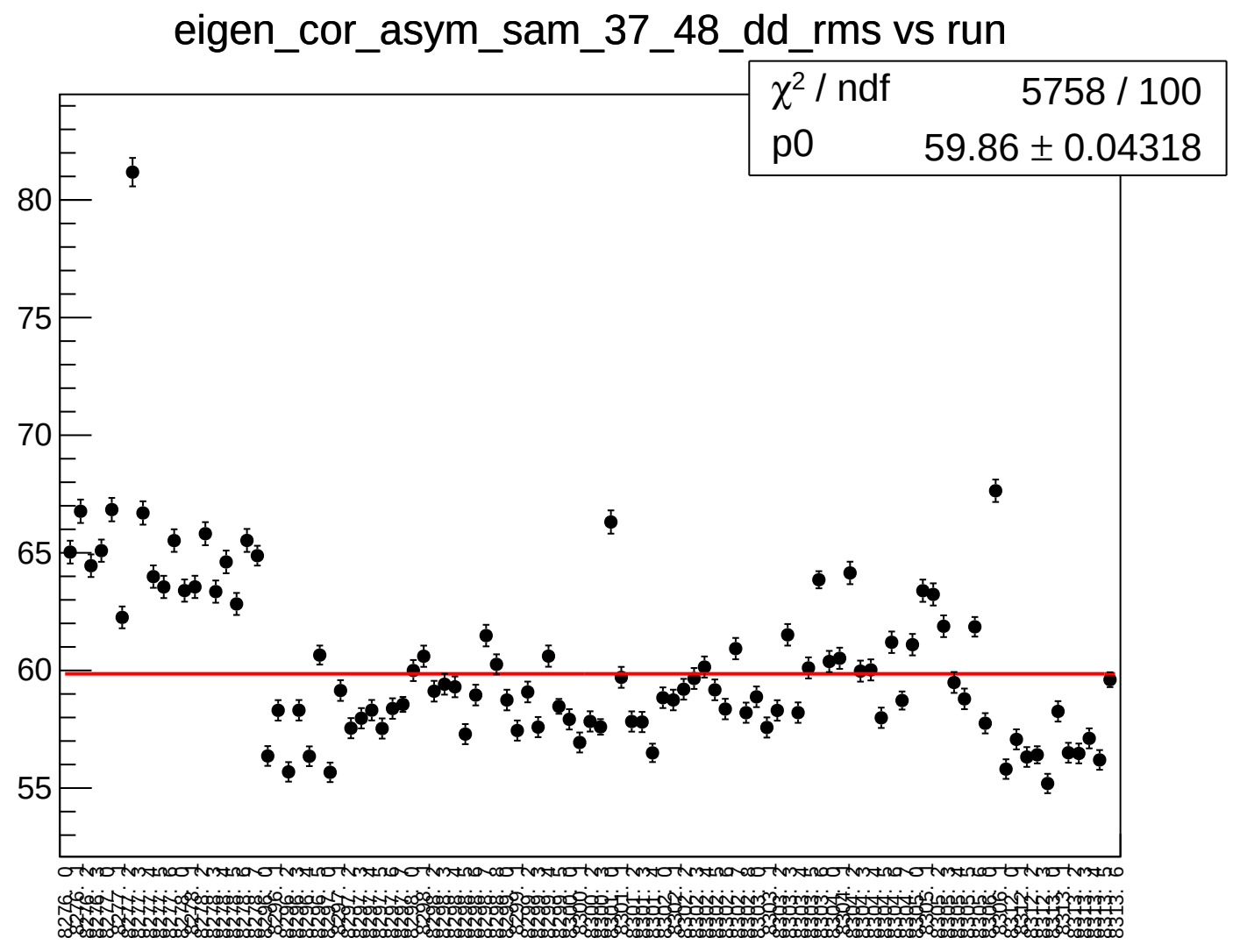

cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 5758 / 100
p0 59.86 ± 0.04318
80
75
70
65
60
55

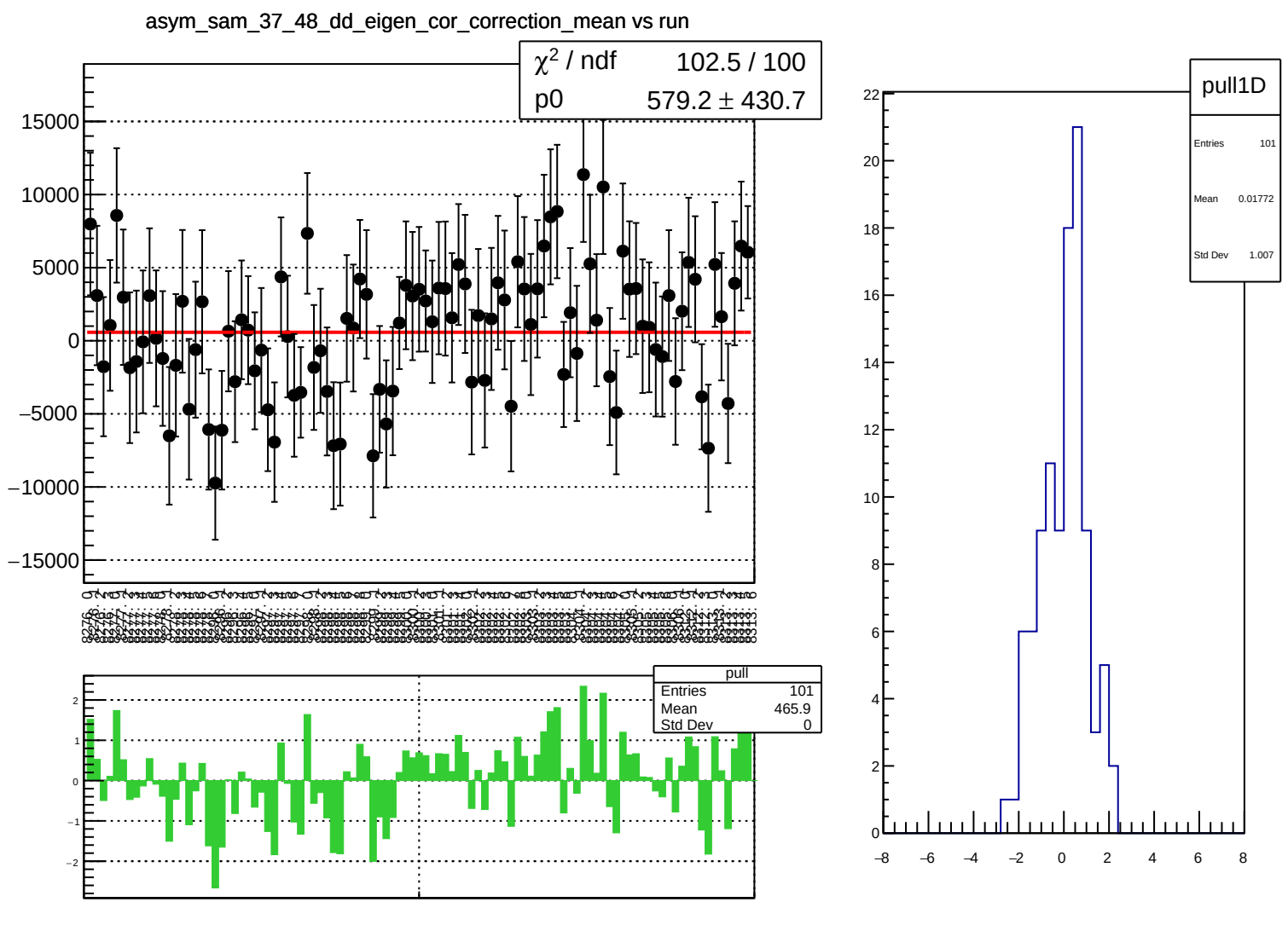

asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 102.5 / 100
p0 579.2 ± 430.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 101
Mean 465.9
Std Dev 0
2
1
0
−1
−2

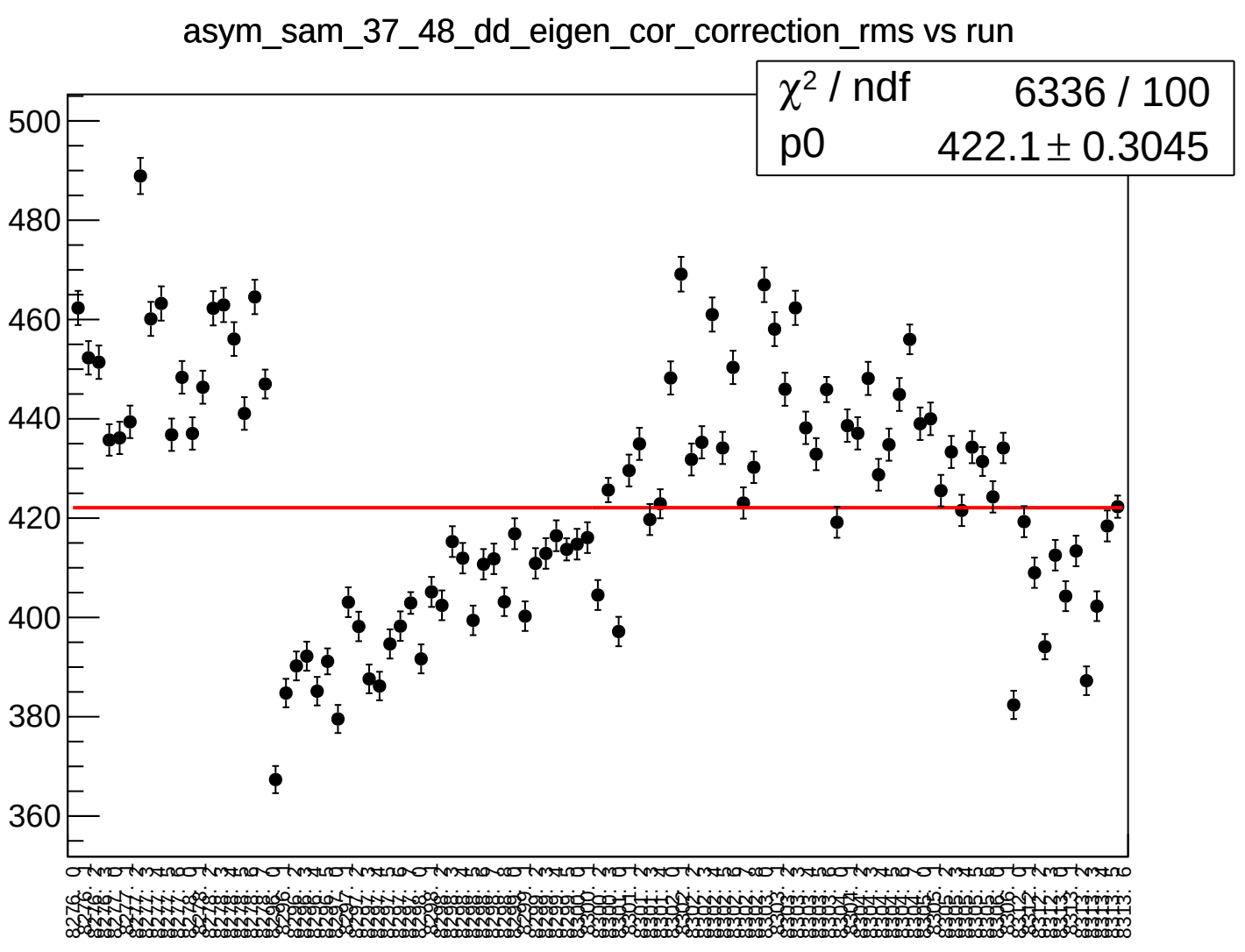

pull1D
Entries 101
Mean 0.01772
Std Dev 1.007
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

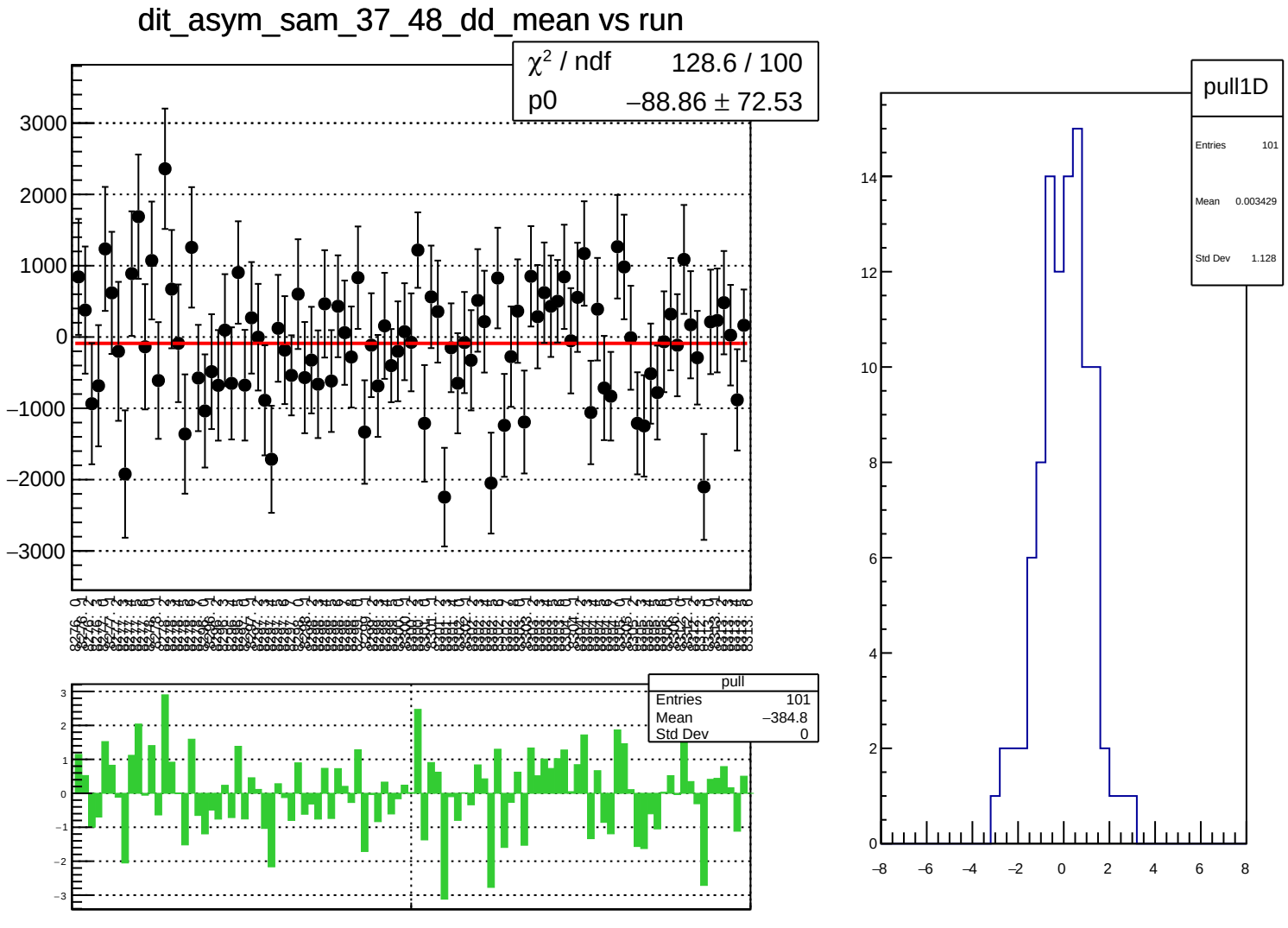

asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 6336 / 100
p0 422.1 ± 0.3045
500
480
460
440
420
400
380
360

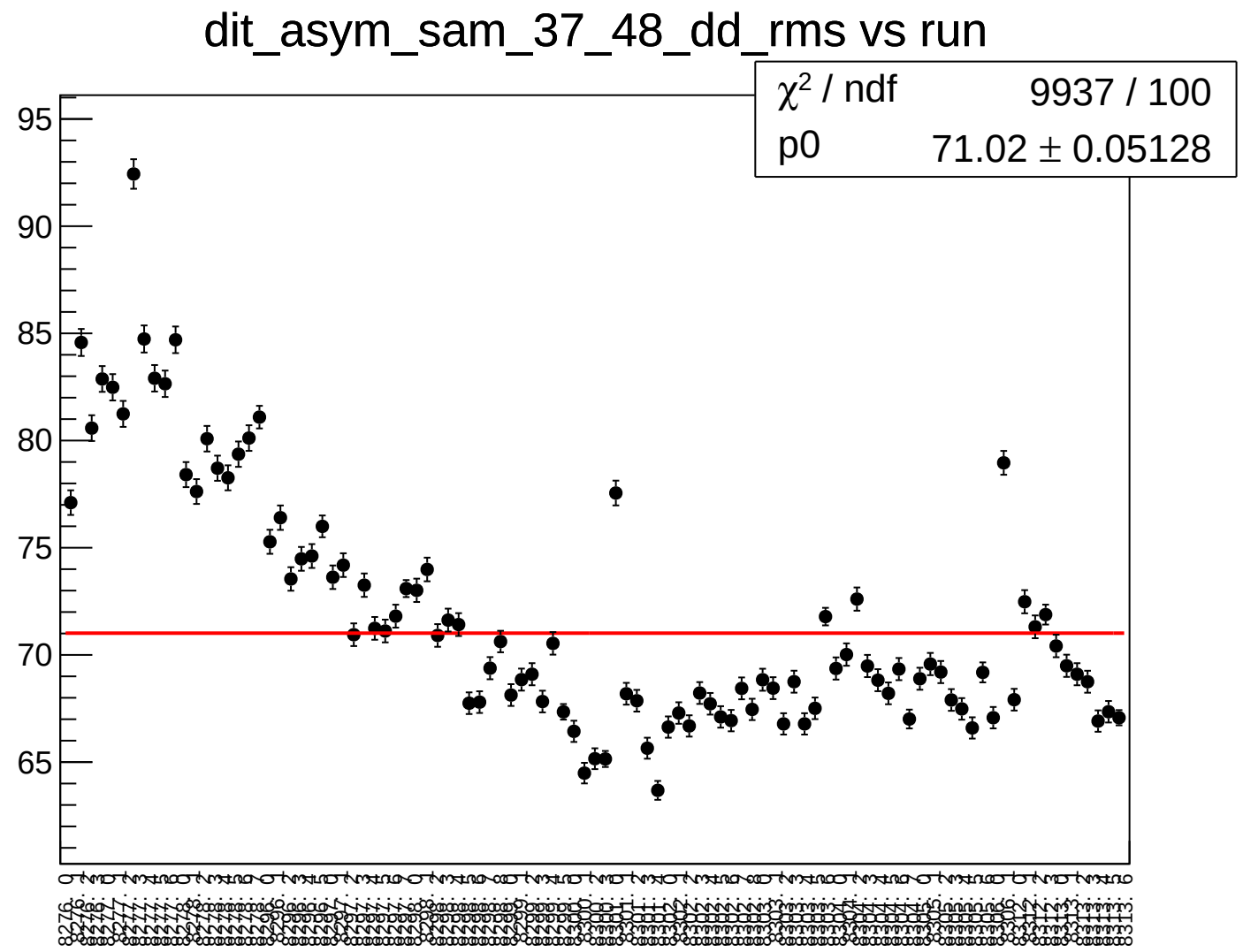

eigen_cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 128 / 100
p0 −68.85 ± 61.07
3000
2000
1000
0
−1000
−2000
pull
Entries 101
Mean −551.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.002419
Std Dev 1.126
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

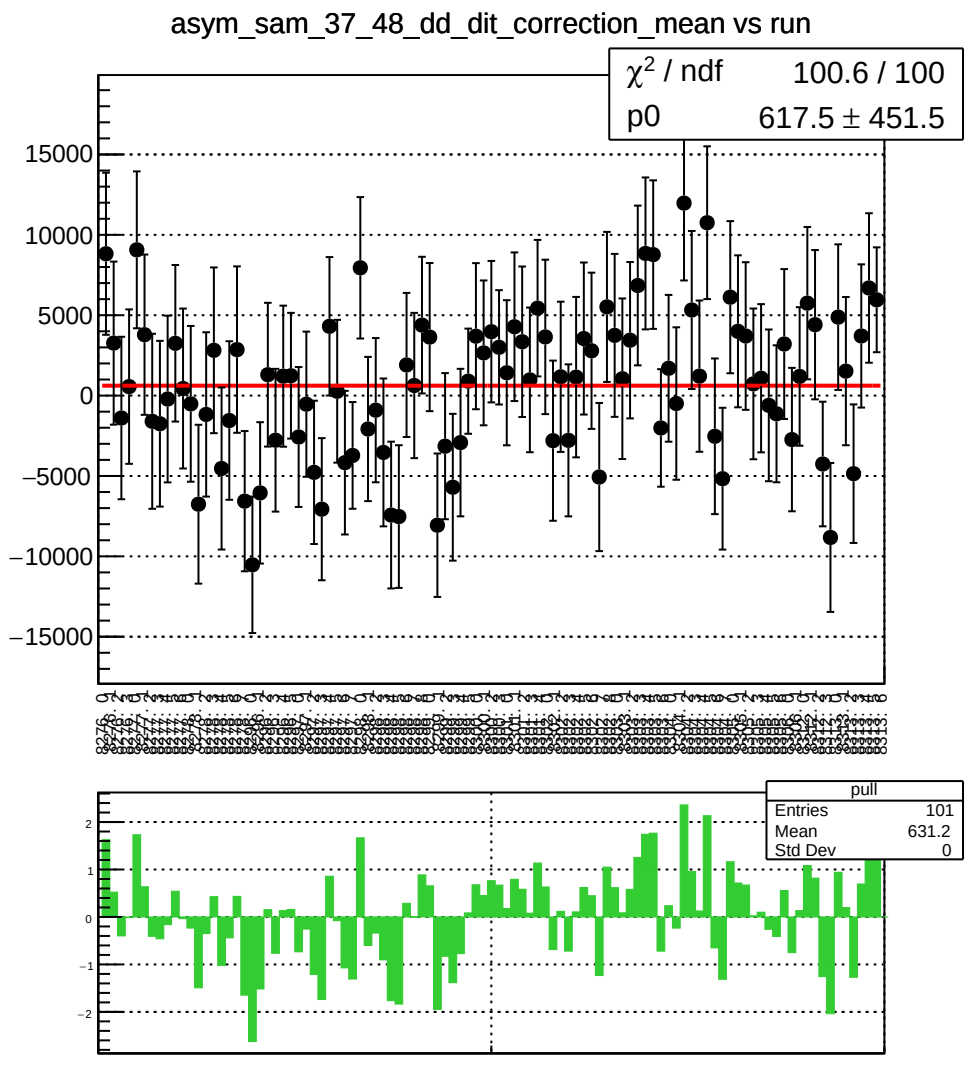

eigen_cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 5758 / 100
p0 59.86 ± 0.04318
80
75
70
65
60
55

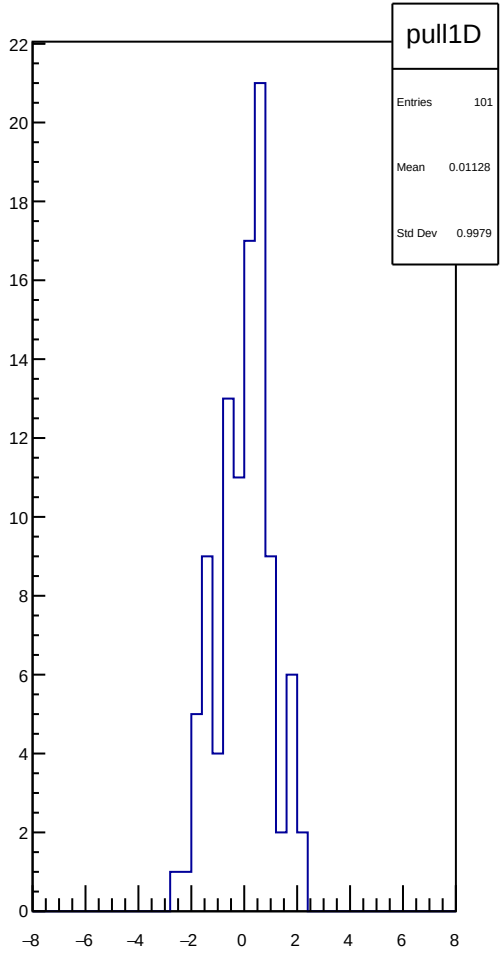

asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 102.5 / 100
p0 579.2 ± 430.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 101
Mean 465.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.01772
Std Dev 1.007
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

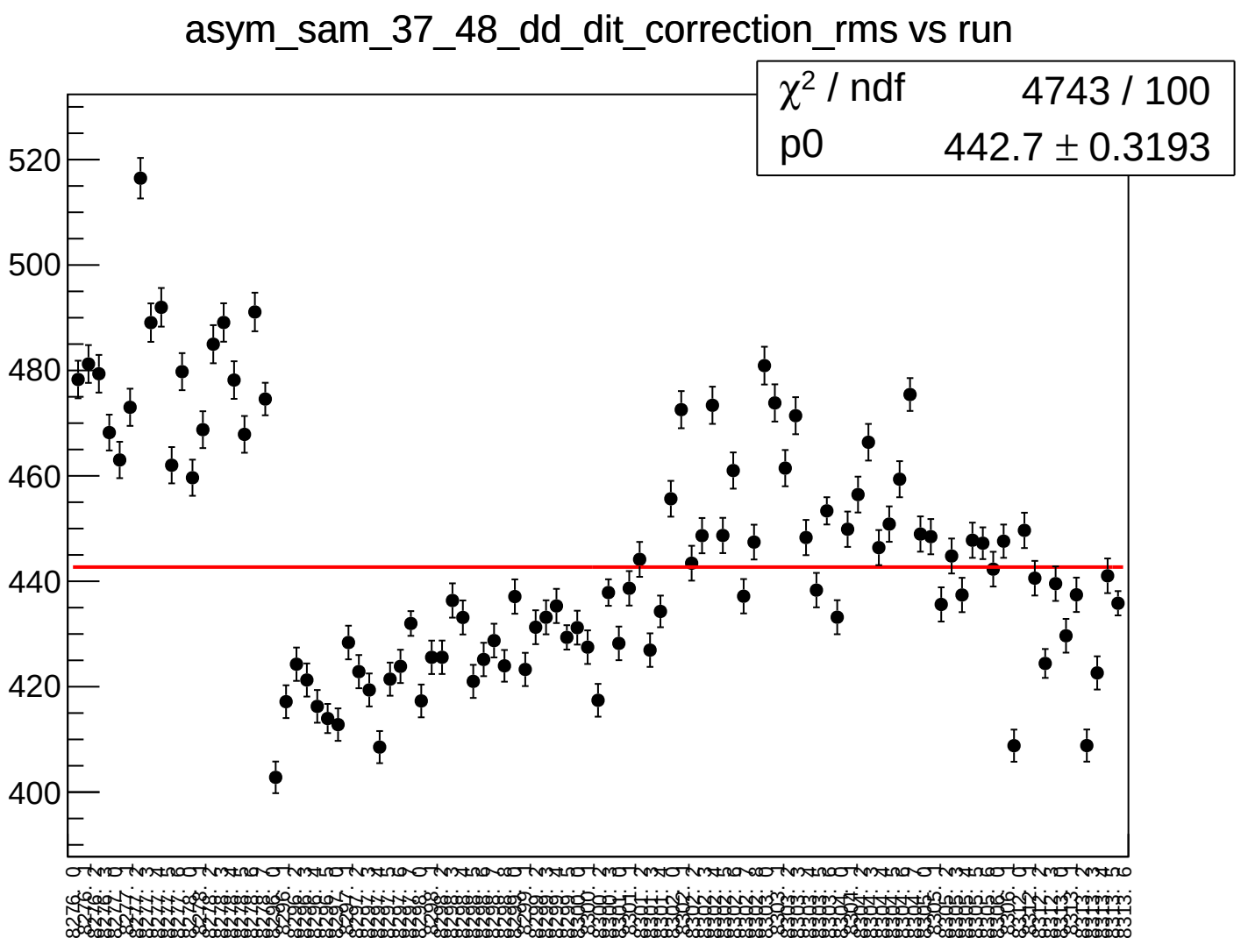

asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 6336 / 100
p0 422.1 ± 0.3045
500
480
460
440
420
400
380
360

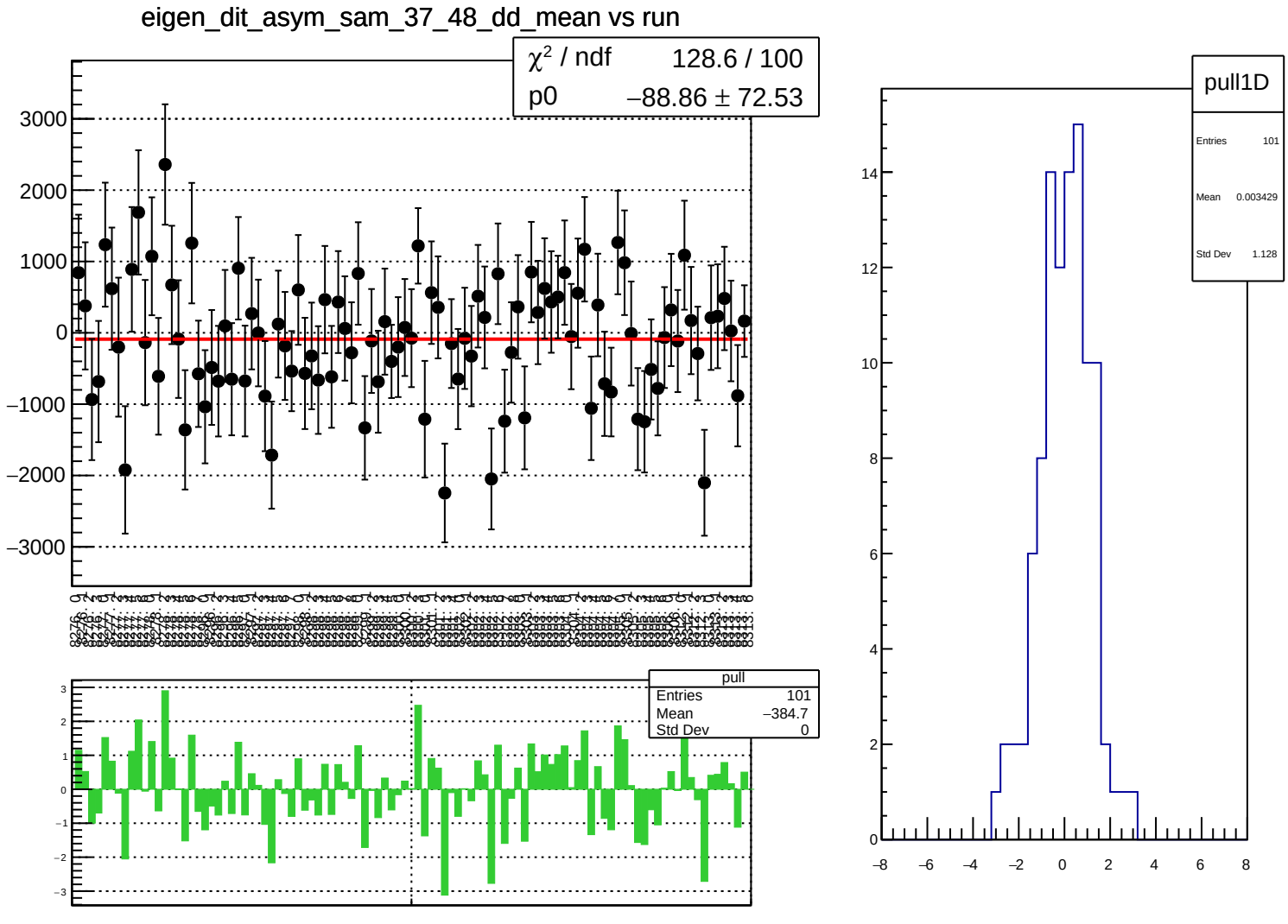

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 128.6 / 100
p0 −88.86 ± 72.53
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 101
Mean −384.8
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.003429
Std Dev 1.128
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

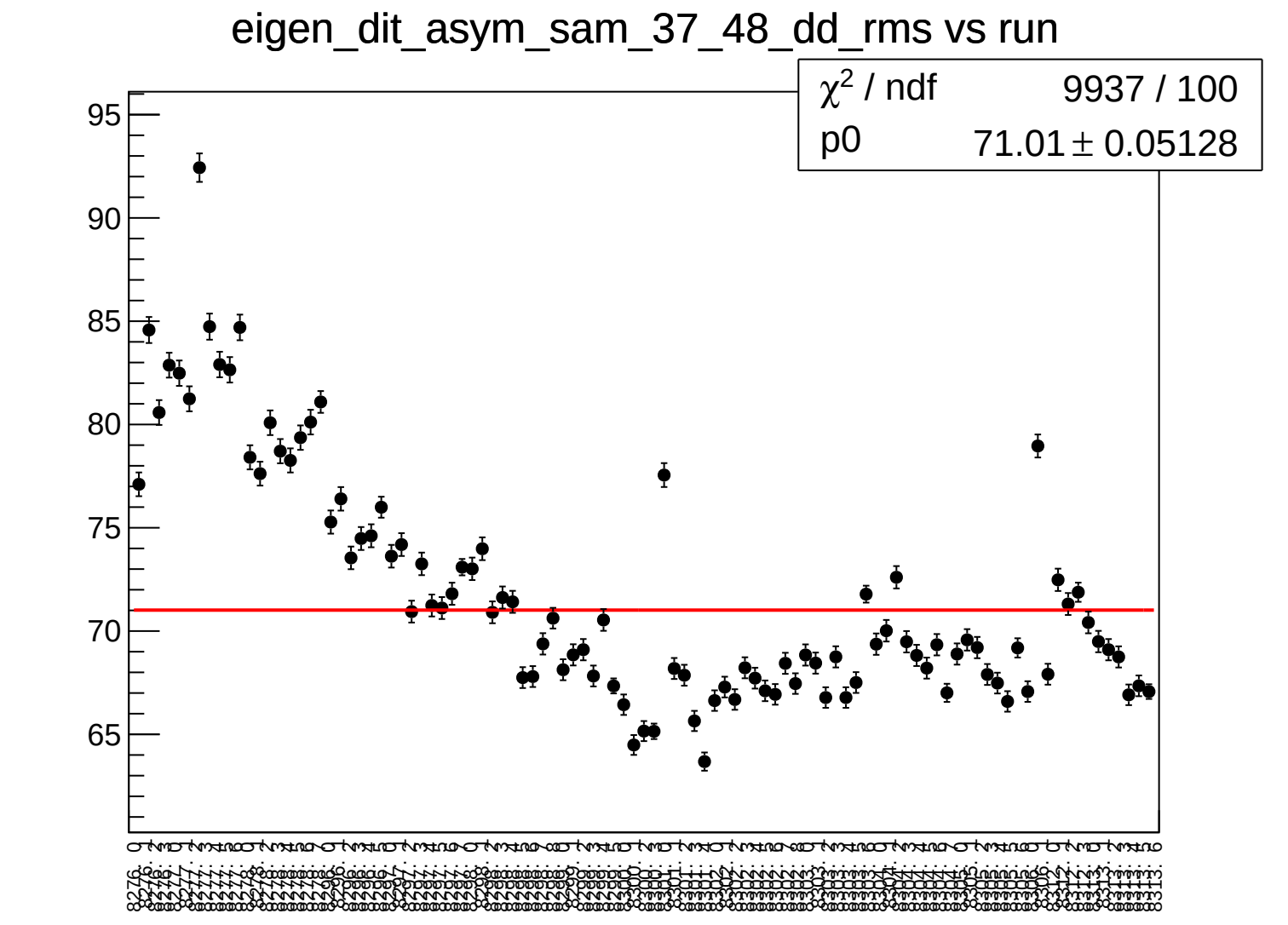

dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 9937 / 100
p0 71.02 ± 0.05128
95
90
85
80
75
70
65

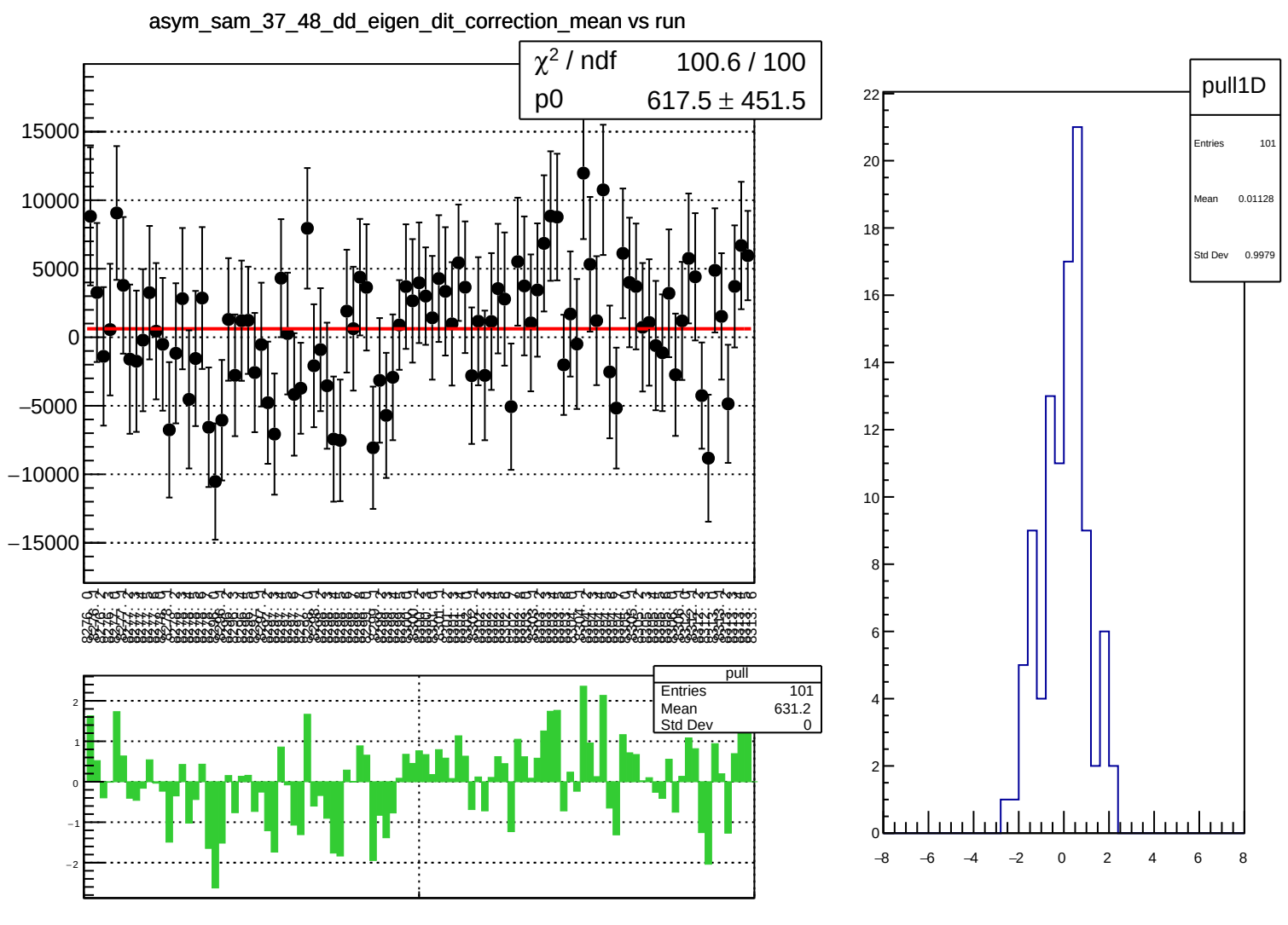

asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 100.6 / 100
p0 617.5 ± 451.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 101
Mean 631.2
Std Dev 0
2
1
0
−1
−2

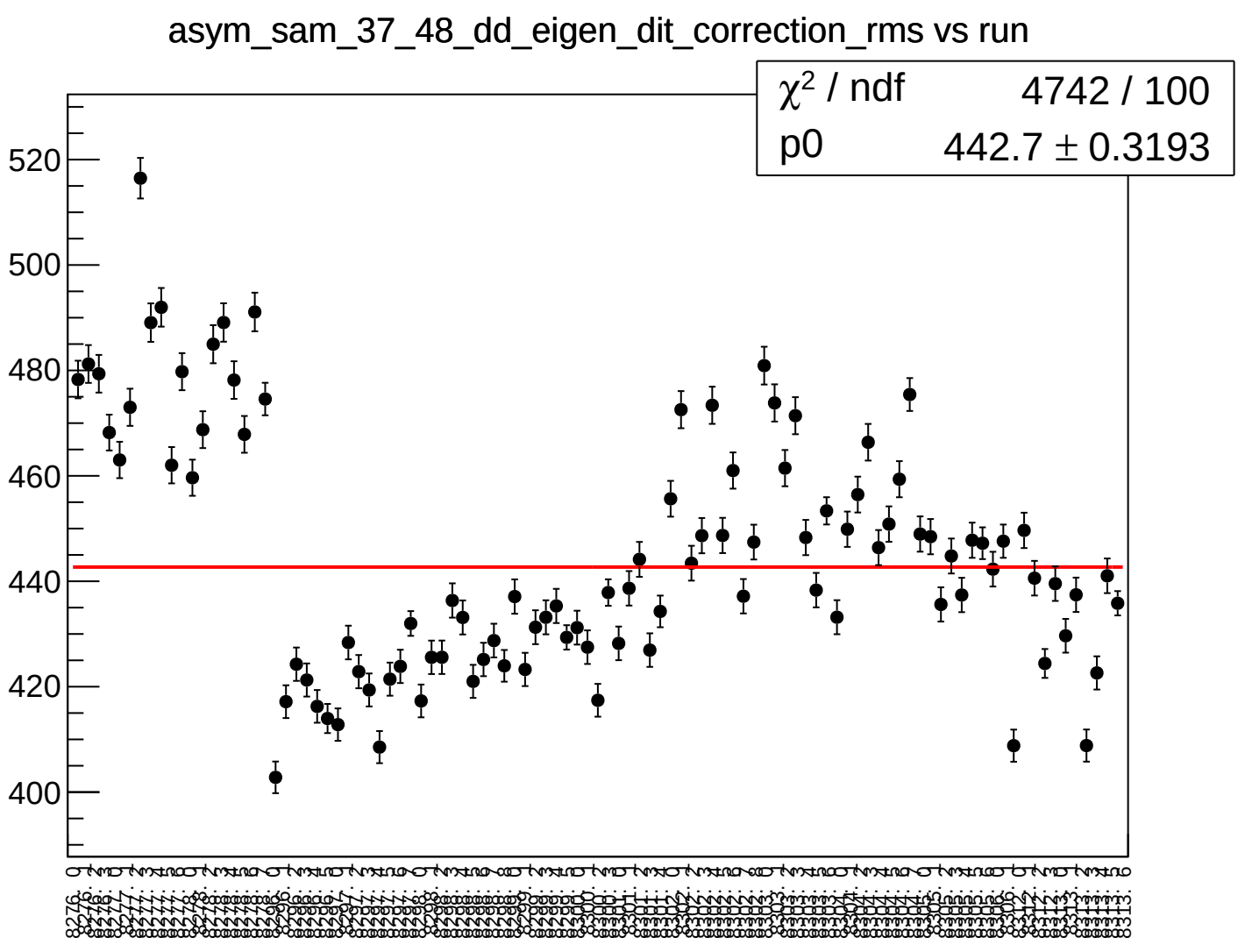

pull1D
Entries 101
Mean 0.01128
Std Dev 0.9979
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

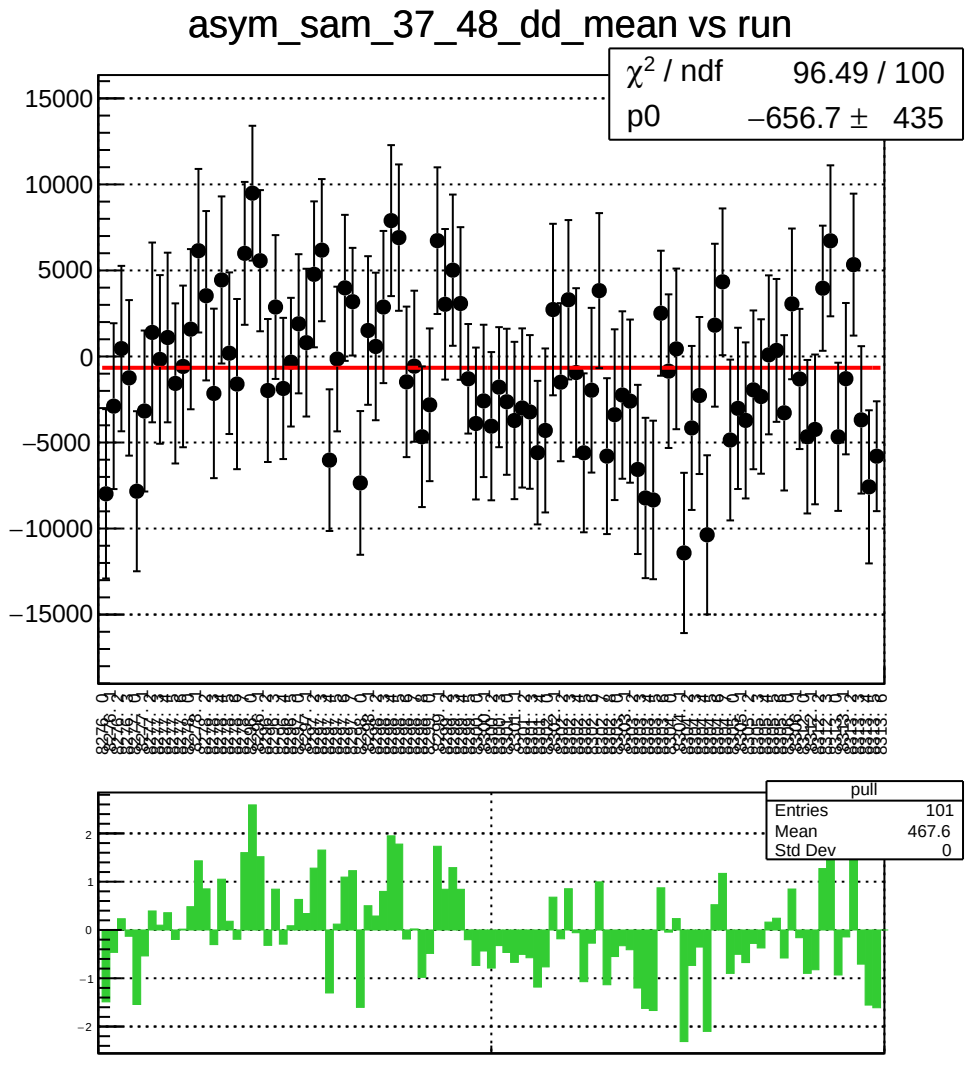

asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 4743 / 100
p0 442.7 ± 0.3193
520
500
480
460
440
420
400

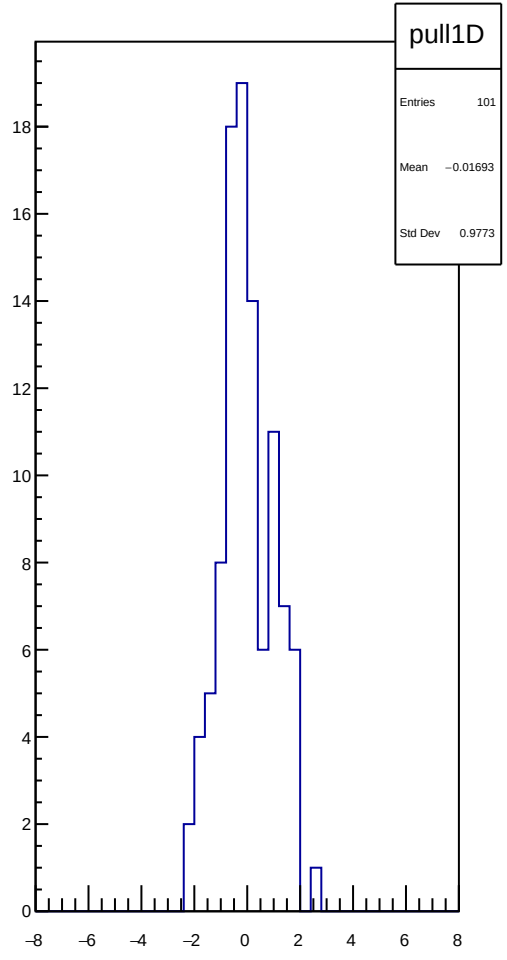

eigen_dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 128.6 / 100
p0 −88.86 ± 72.53
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 101
Mean −384.7
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.003429
Std Dev 1.128
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

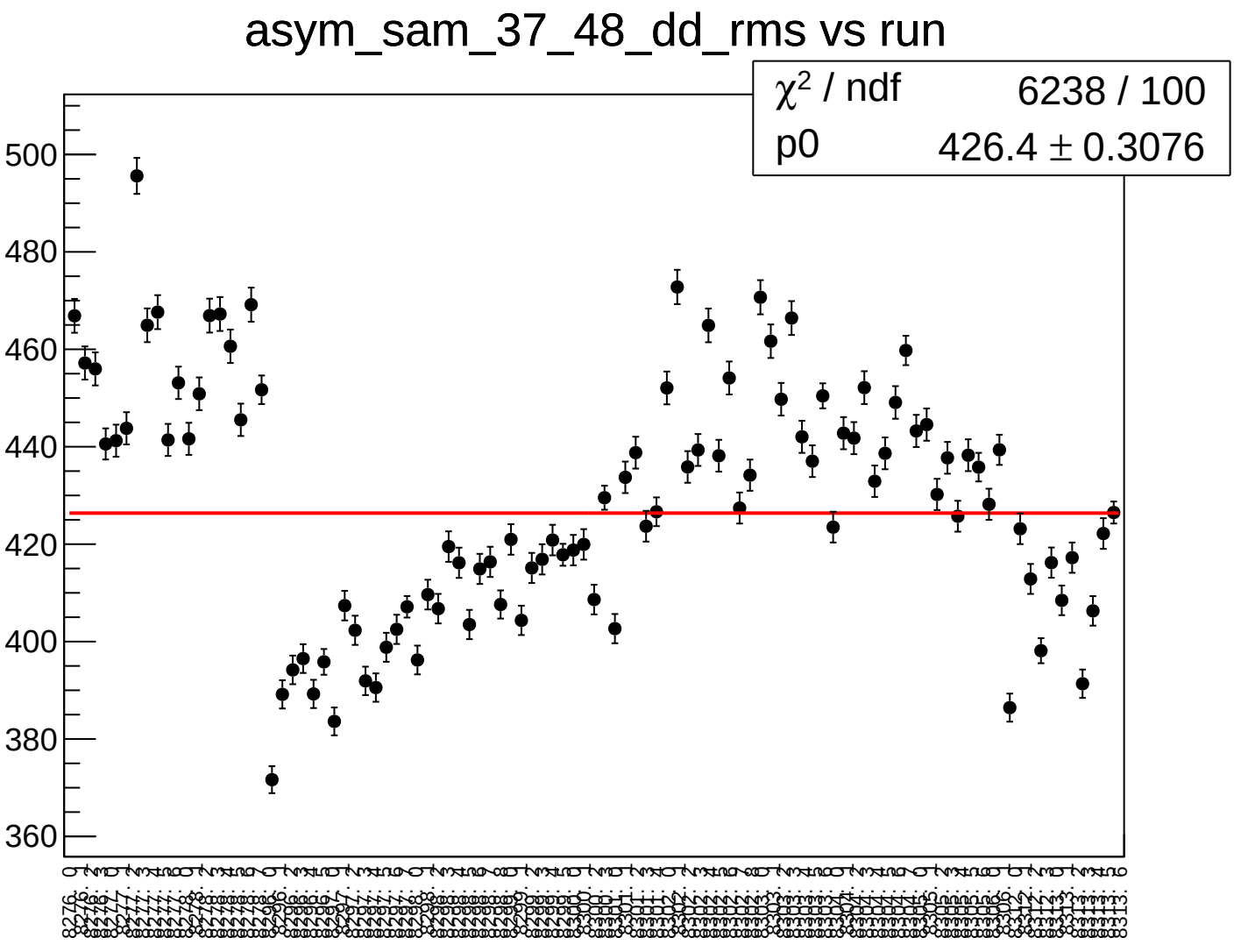

eigen_dit_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 9937 / 100
p0 71.01 ± 0.05128
95
90
85
80
75
70
65

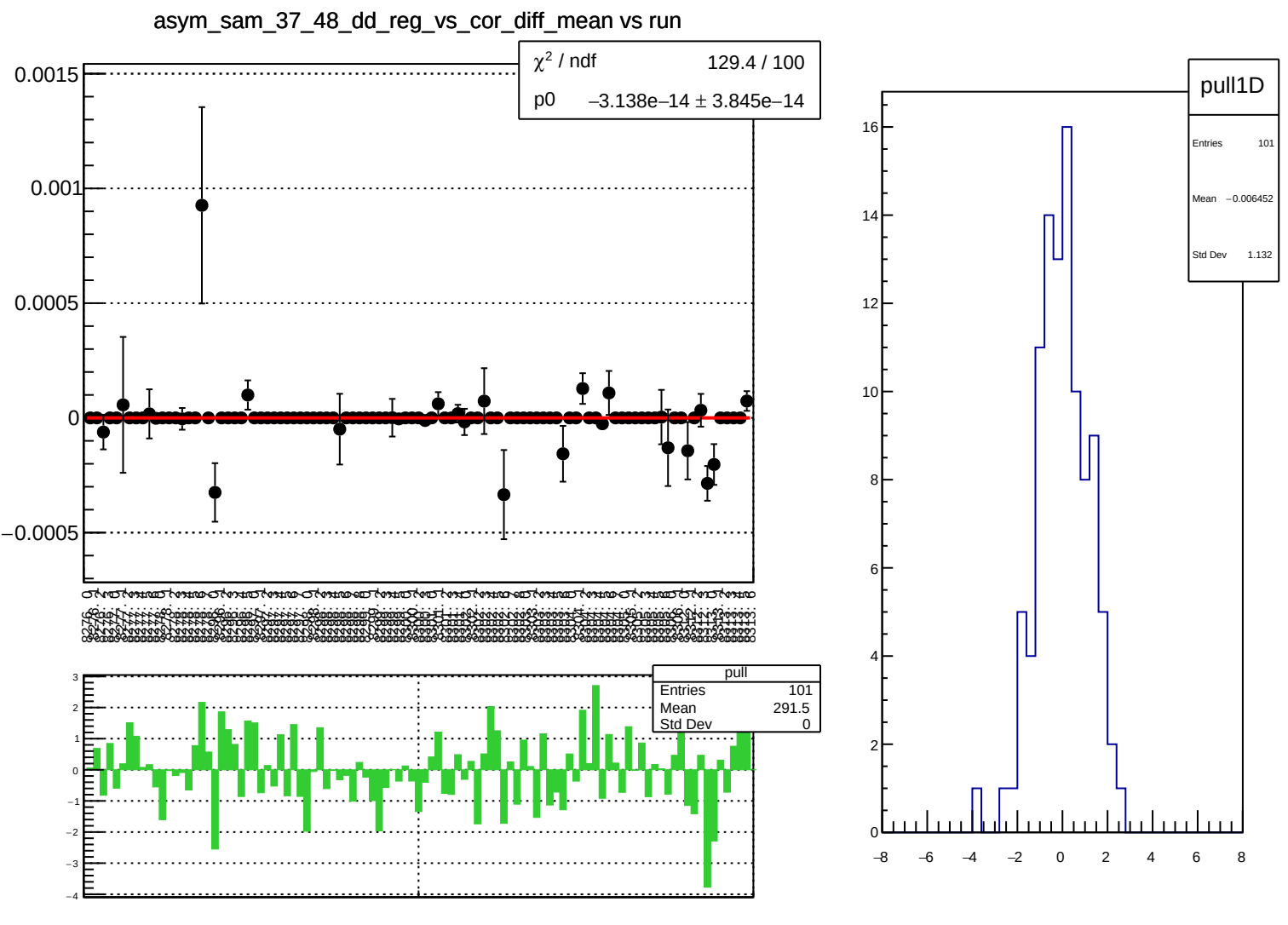

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 100.6 / 100
p0 617.5 ± 451.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 101
Mean 631.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.01128
Std Dev 0.9979
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

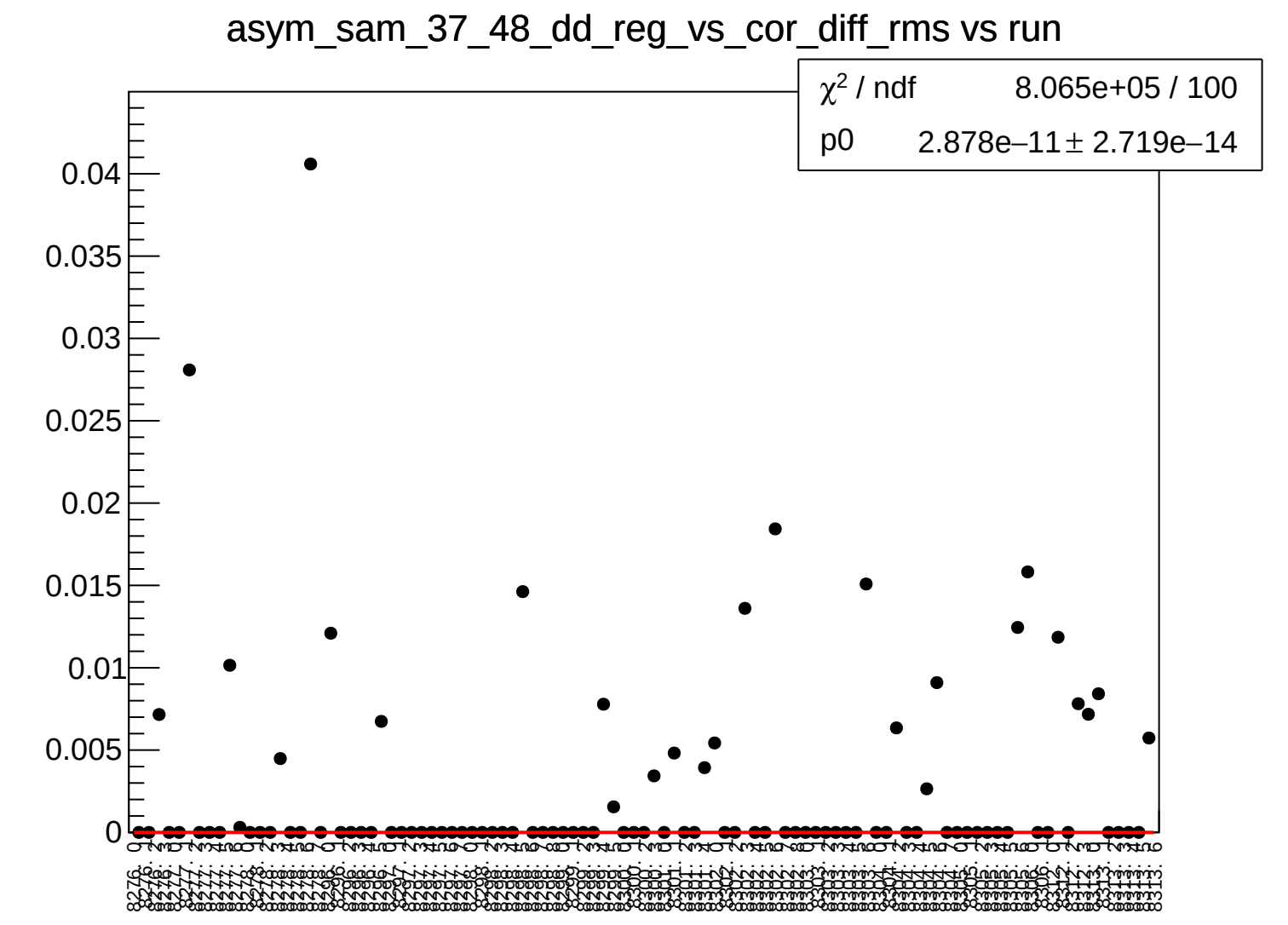

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 4742 / 100
p0 442.7 ± 0.3193
520
500
480
460
440
420
400

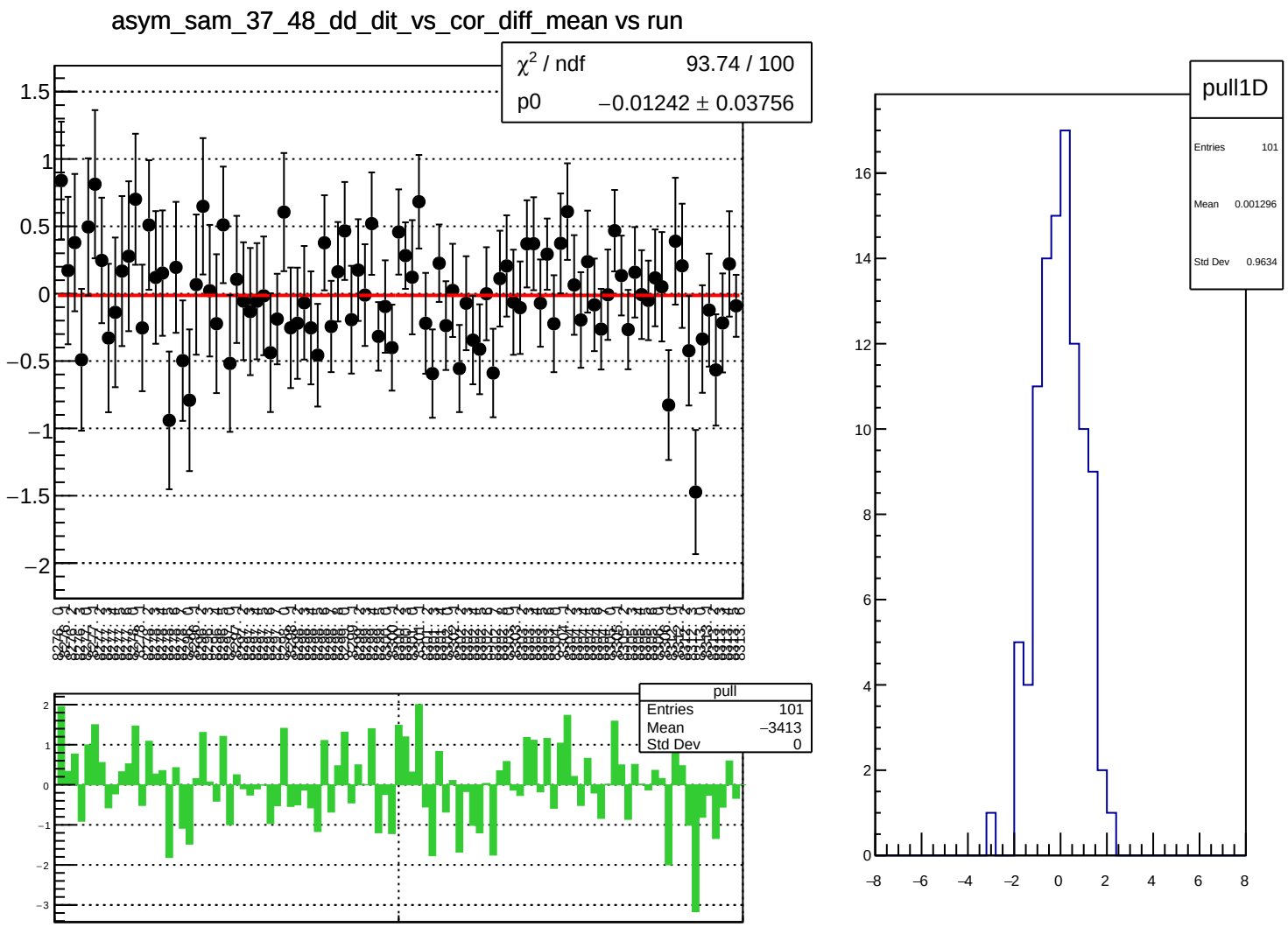

asym_sam_37_48_dd_mean vs run
χ² / ndf 96.49 / 100
p0 −656.7 ± 435
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 101
Mean 467.6
Std Dev 0
2
1
0
−1
−2

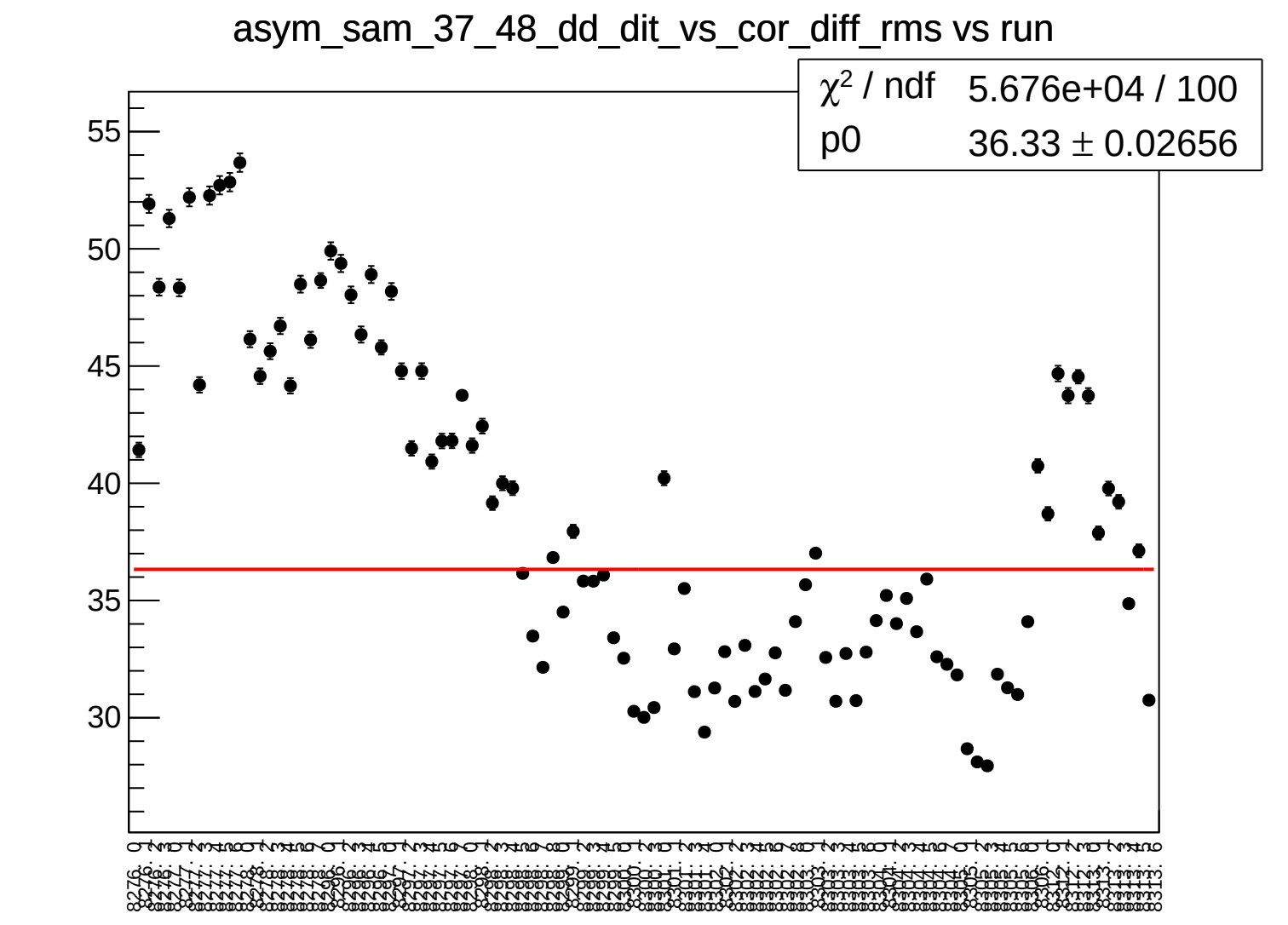

pull1D
Entries 101
Mean −0.01693
Std Dev 0.9773
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

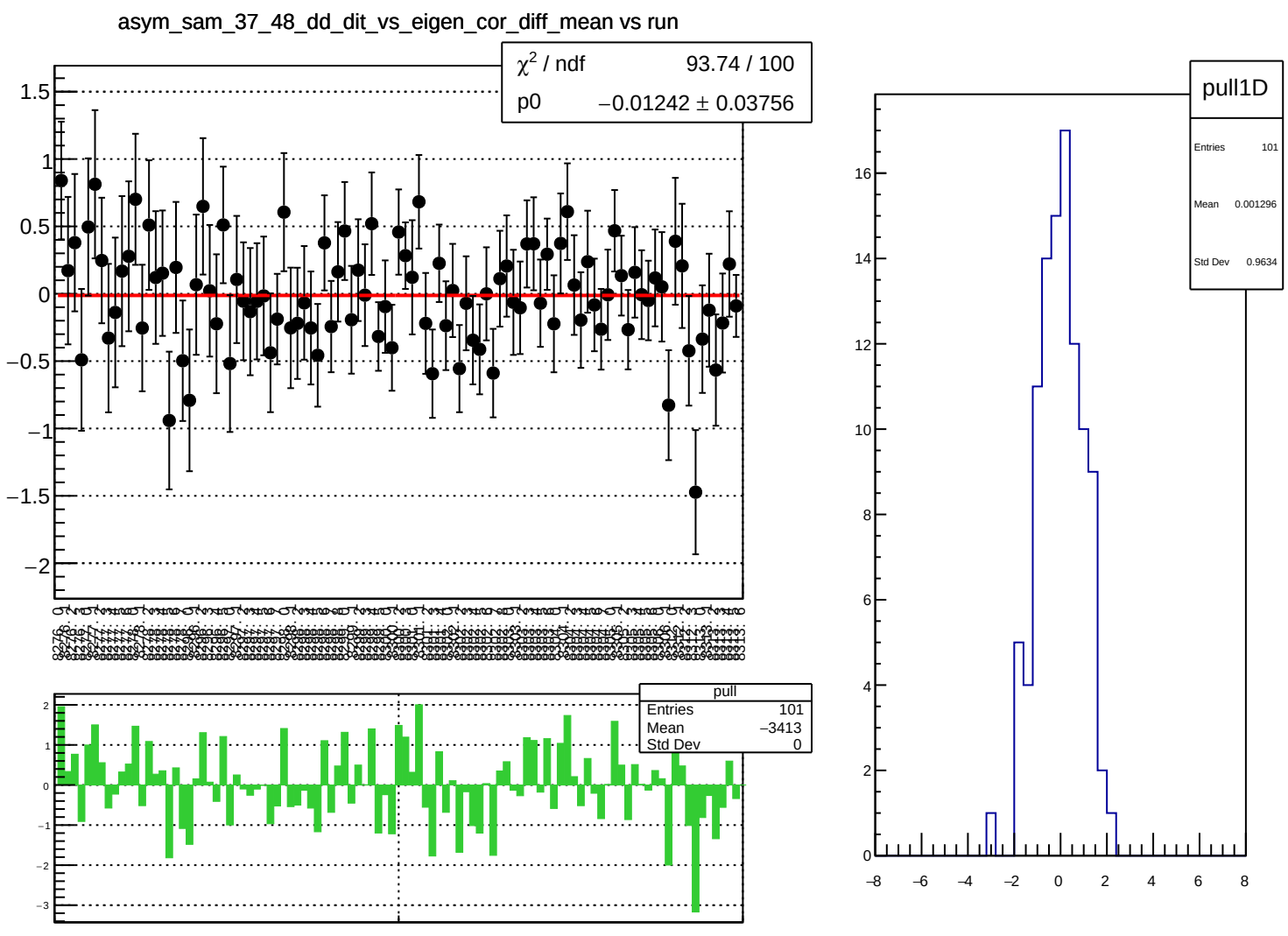

asym_sam_37_48_dd_rms vs run
χ² / ndf 6238 / 100
p0 426.4 ± 0.3076
500
480
460
440
420
400
380
360

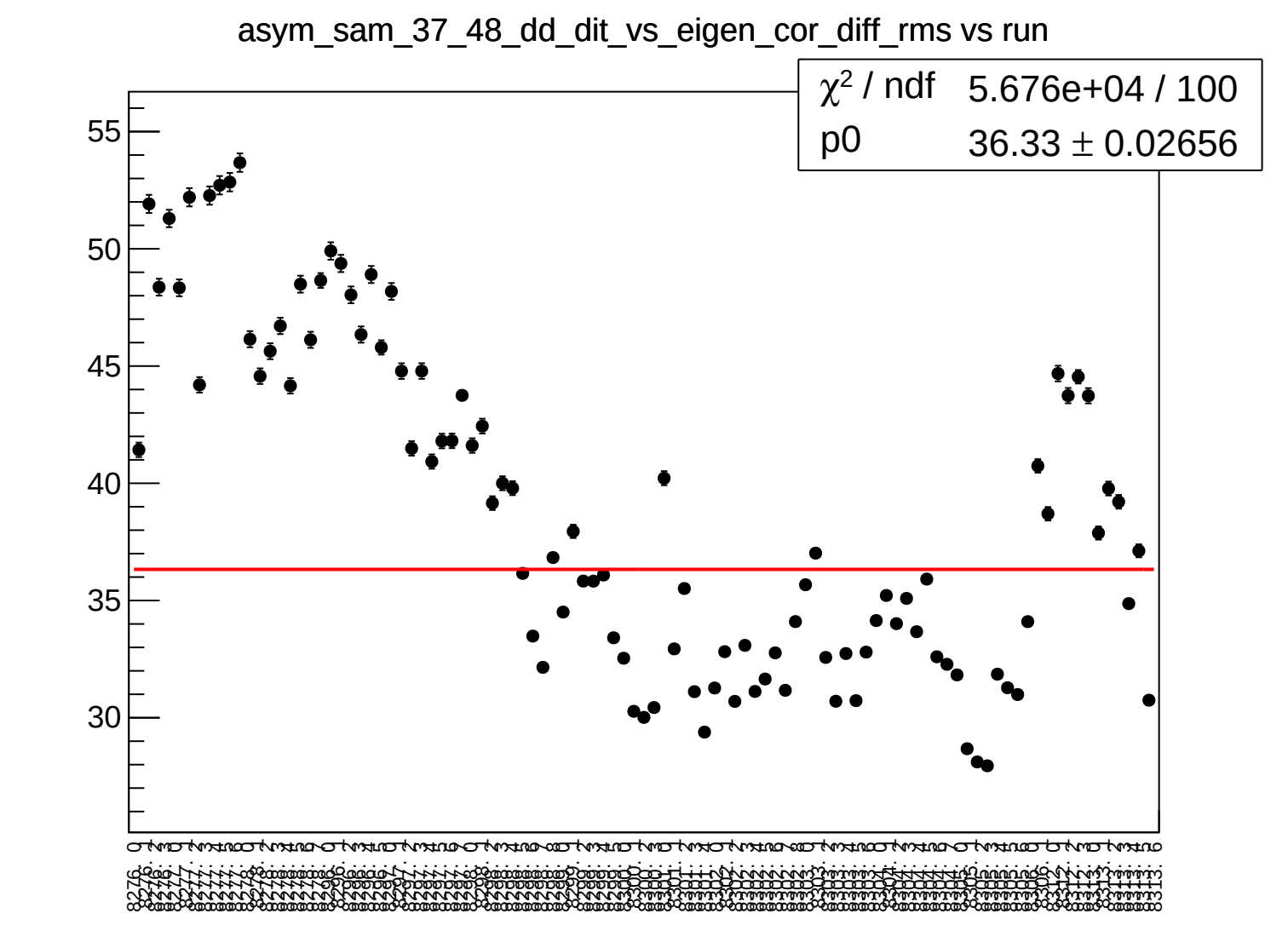

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 129.4 / 100
p0 −3.138e−14 ± 3.845e−14
0.0015
0.001
0.0005
0
−0.0005
pull
Entries 101
Mean 291.5
Std Dev 0
pull1D
Entries 101
Mean −0.006452
Std Dev 1.132

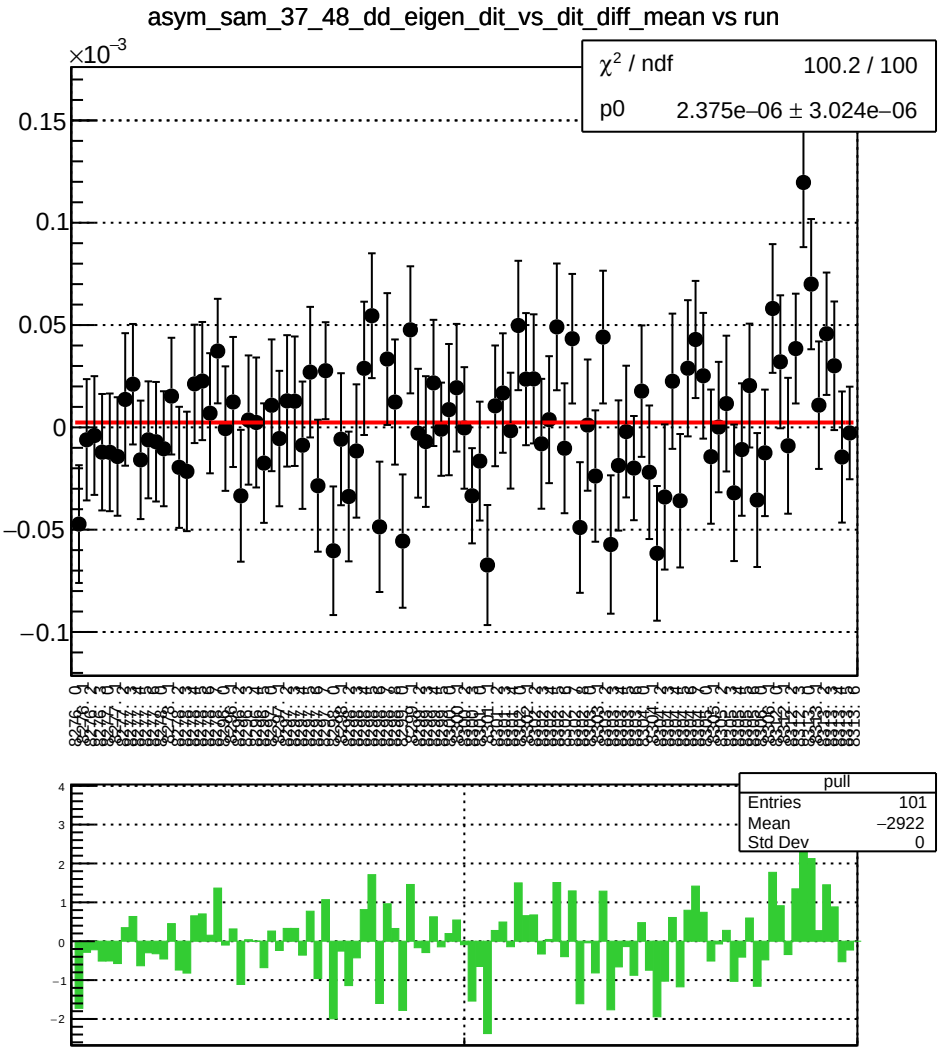

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.065e+05 / 100
p0 2.878e−11 ± 2.719e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

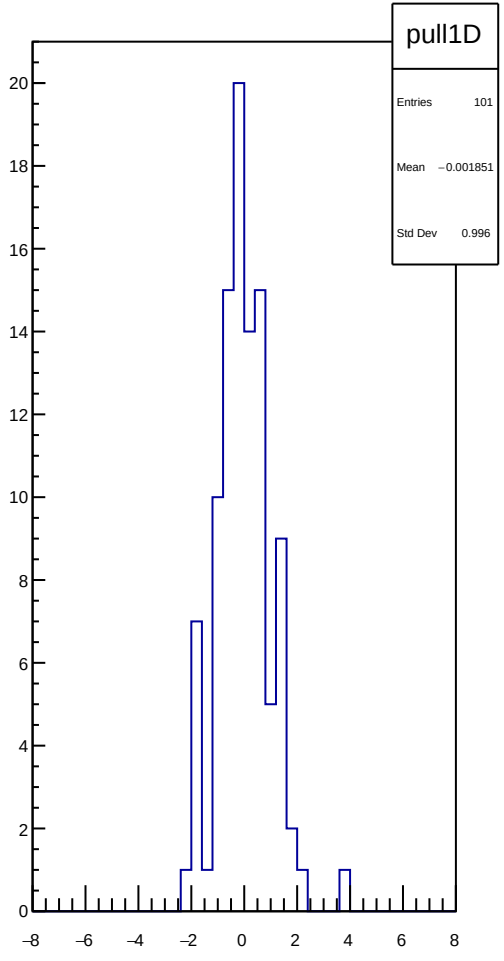

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 93.74 / 100
p0 −0.01242 ± 0.03756
pull
Entries 101
Mean −3413
Std Dev 0
pull1D
Entries 101
Mean 0.001296
Std Dev 0.9634

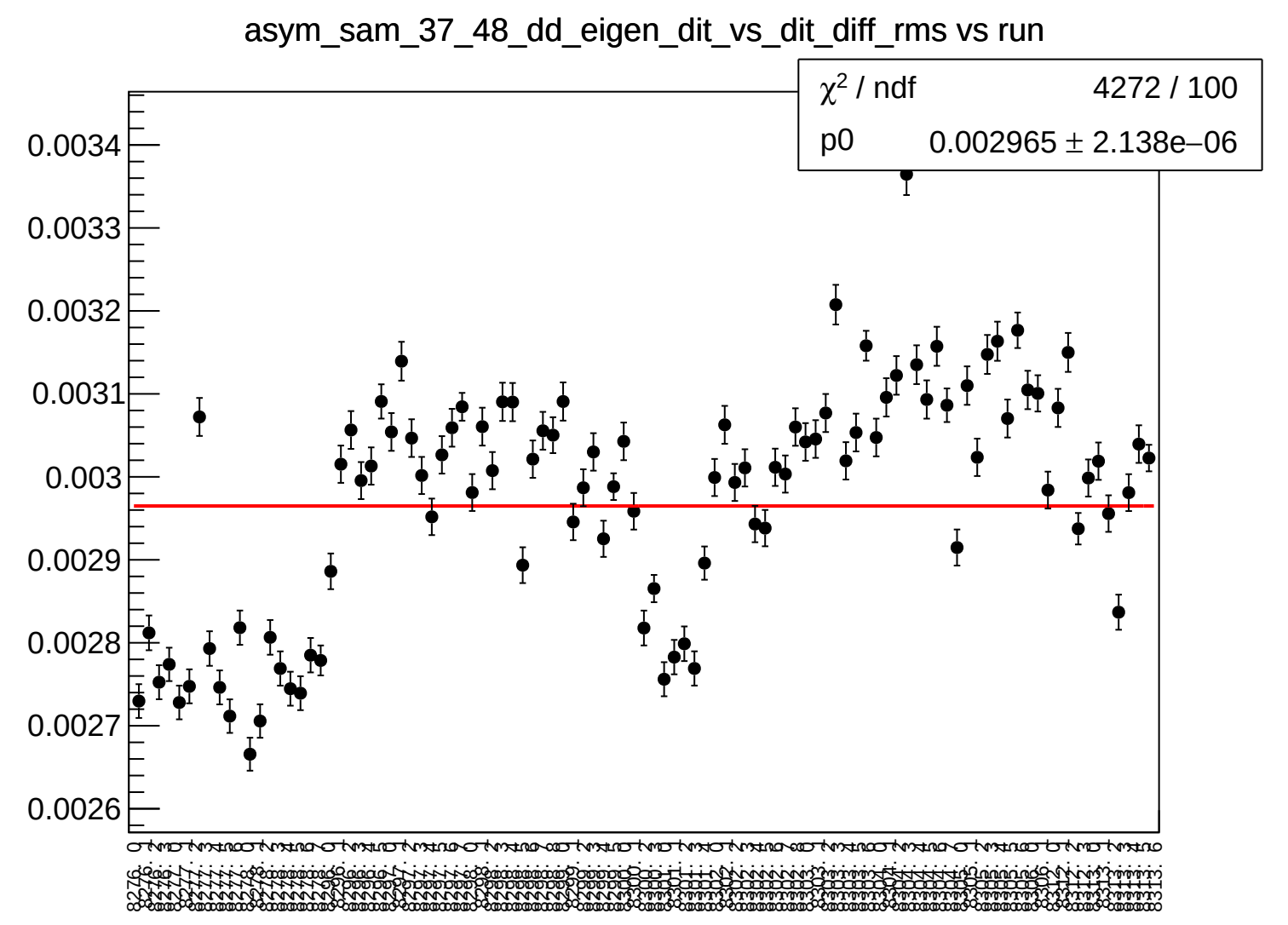

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.676e+04 / 100
p0 36.33 ± 0.02656
55
50
45
40
35
30

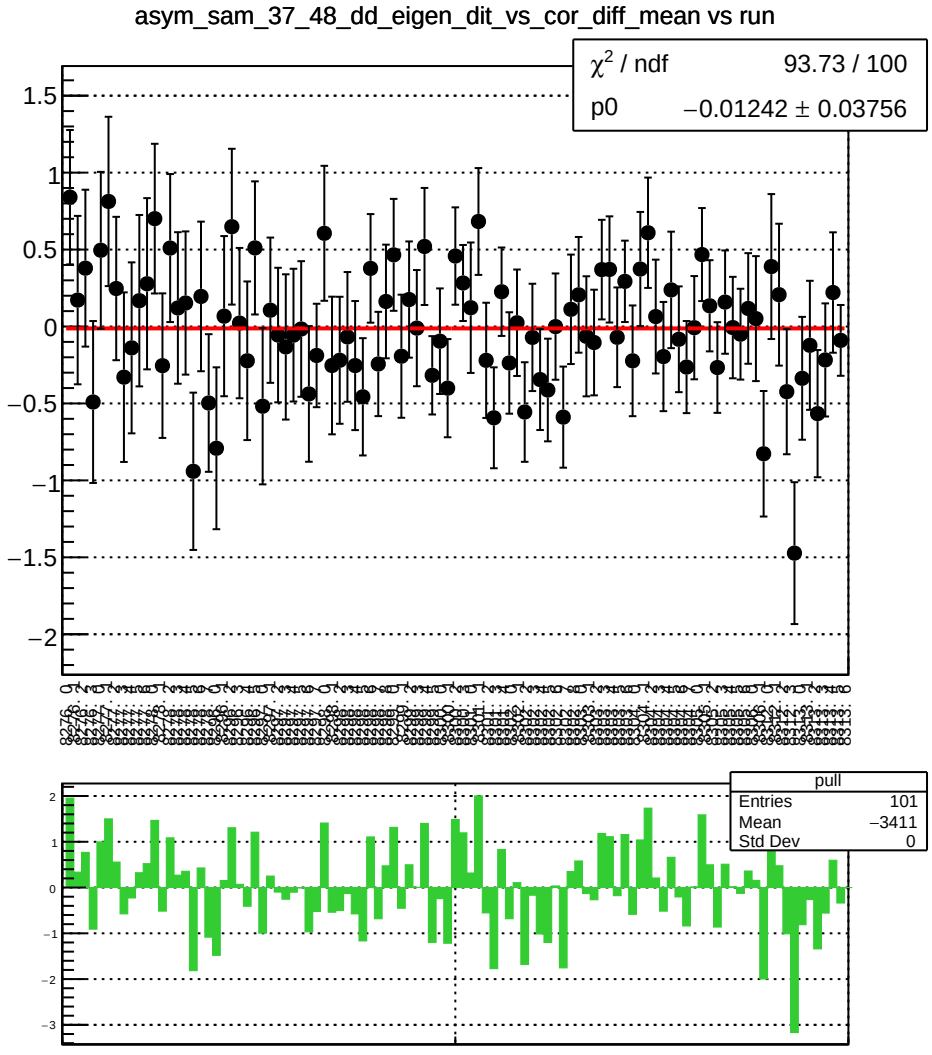

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.74 / 100
p0 −0.01242 ± 0.03756
pull
Entries 101
Mean −3413
Std Dev 0
pull1D
Entries 101
Mean 0.001296
Std Dev 0.9634

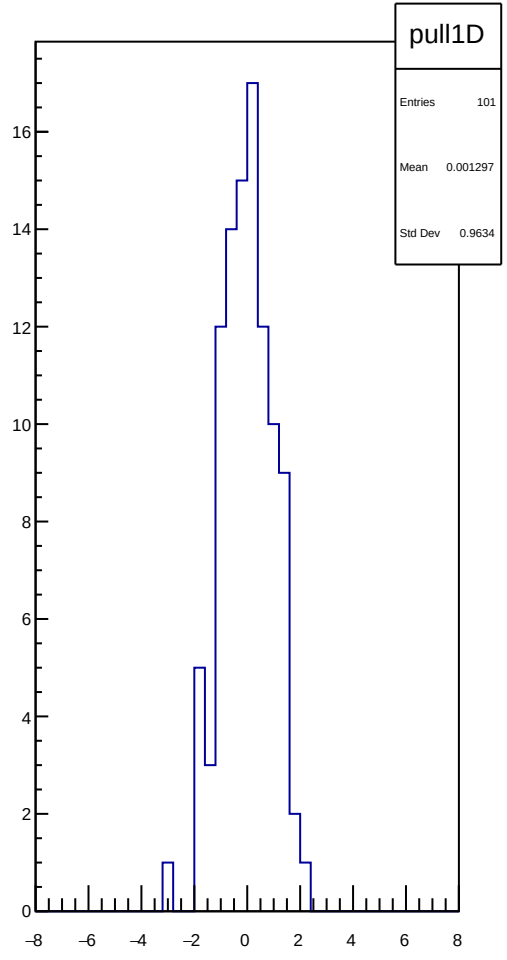

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.676e+04 / 100
p0 36.33 ± 0.02656
55
50
45
40
35
30

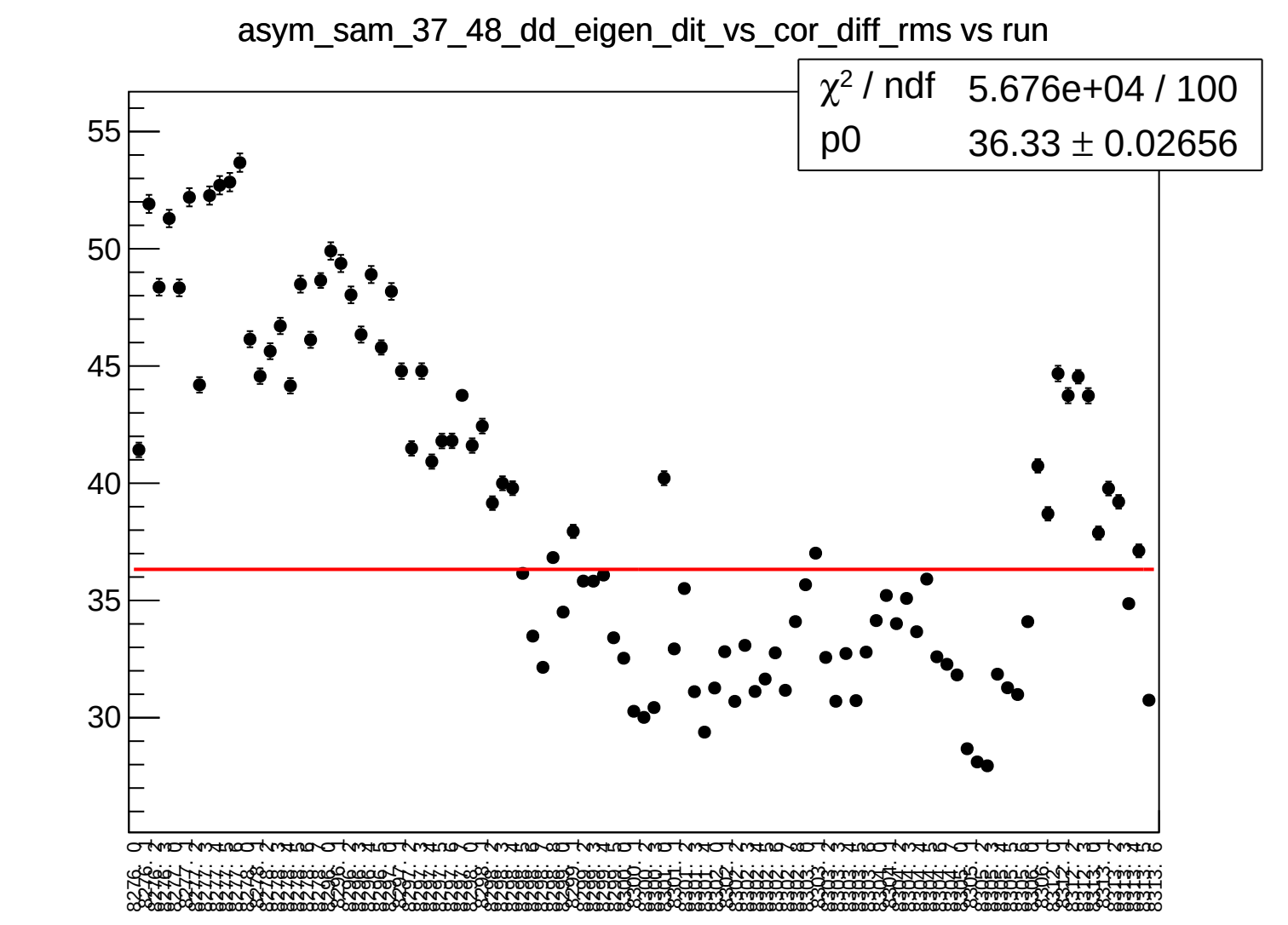

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.2 / 100
p0 2.375e−06 ± 3.024e−06
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 101
Mean −2922
Std Dev 0
4
3
2
1
0
−1
−2

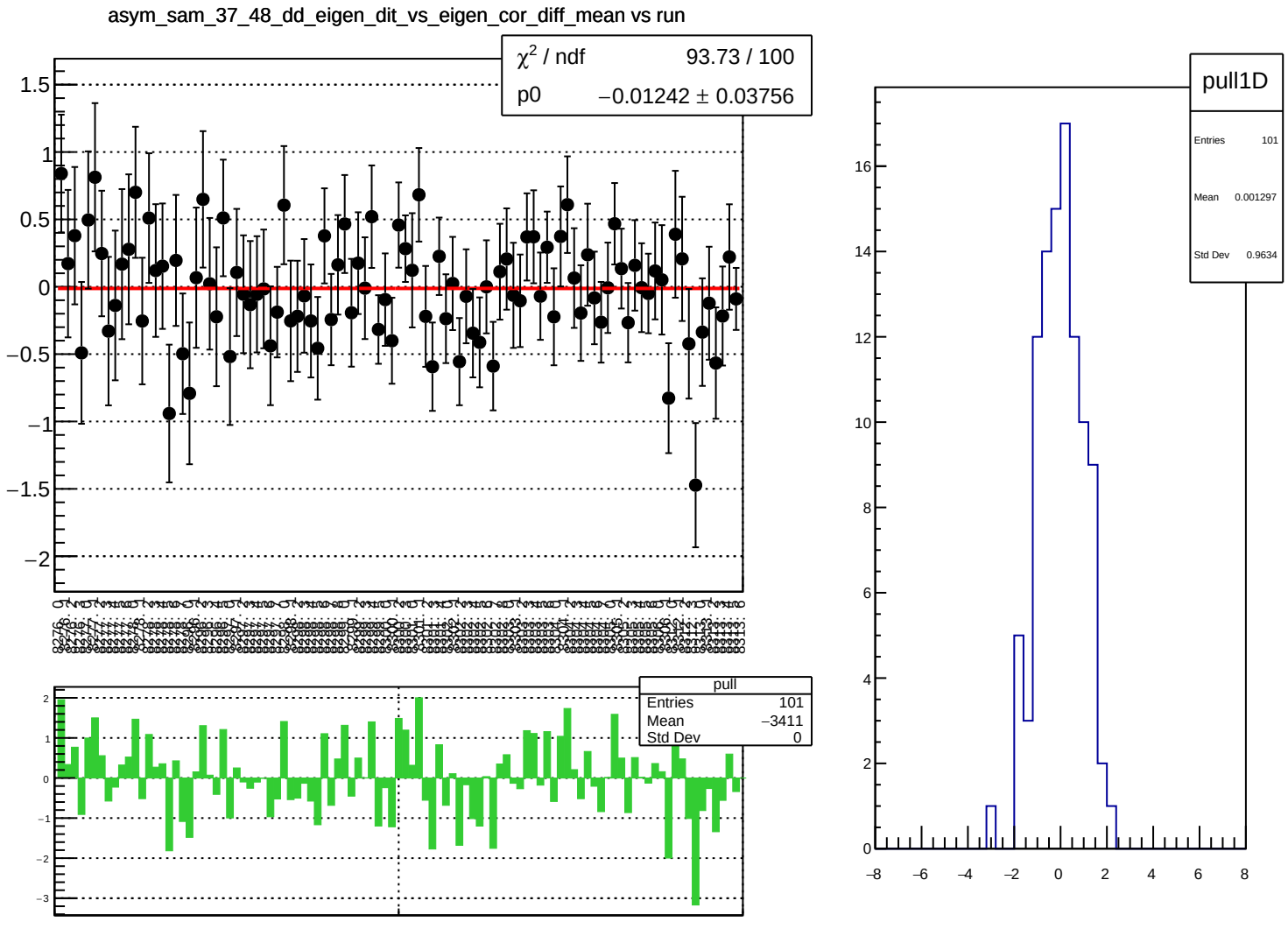

pull1D
Entries 101
Mean −0.001851
Std Dev 0.996
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

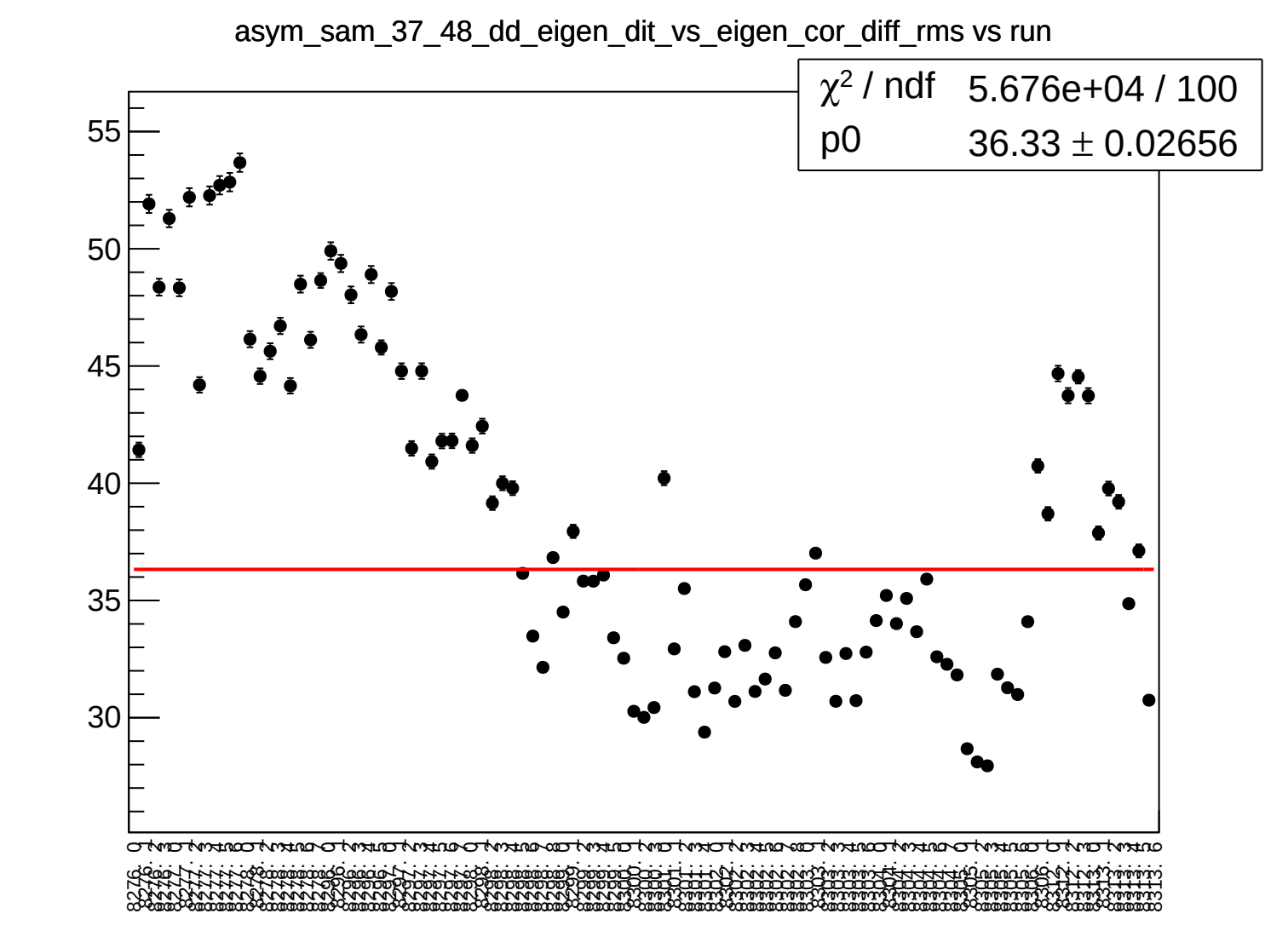

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4272 / 100
p0 0.002965 ± 2.138e−06
0.0034
0.0033
0.0032
0.0031
0.003
0.0029
0.0028
0.0027
0.0026

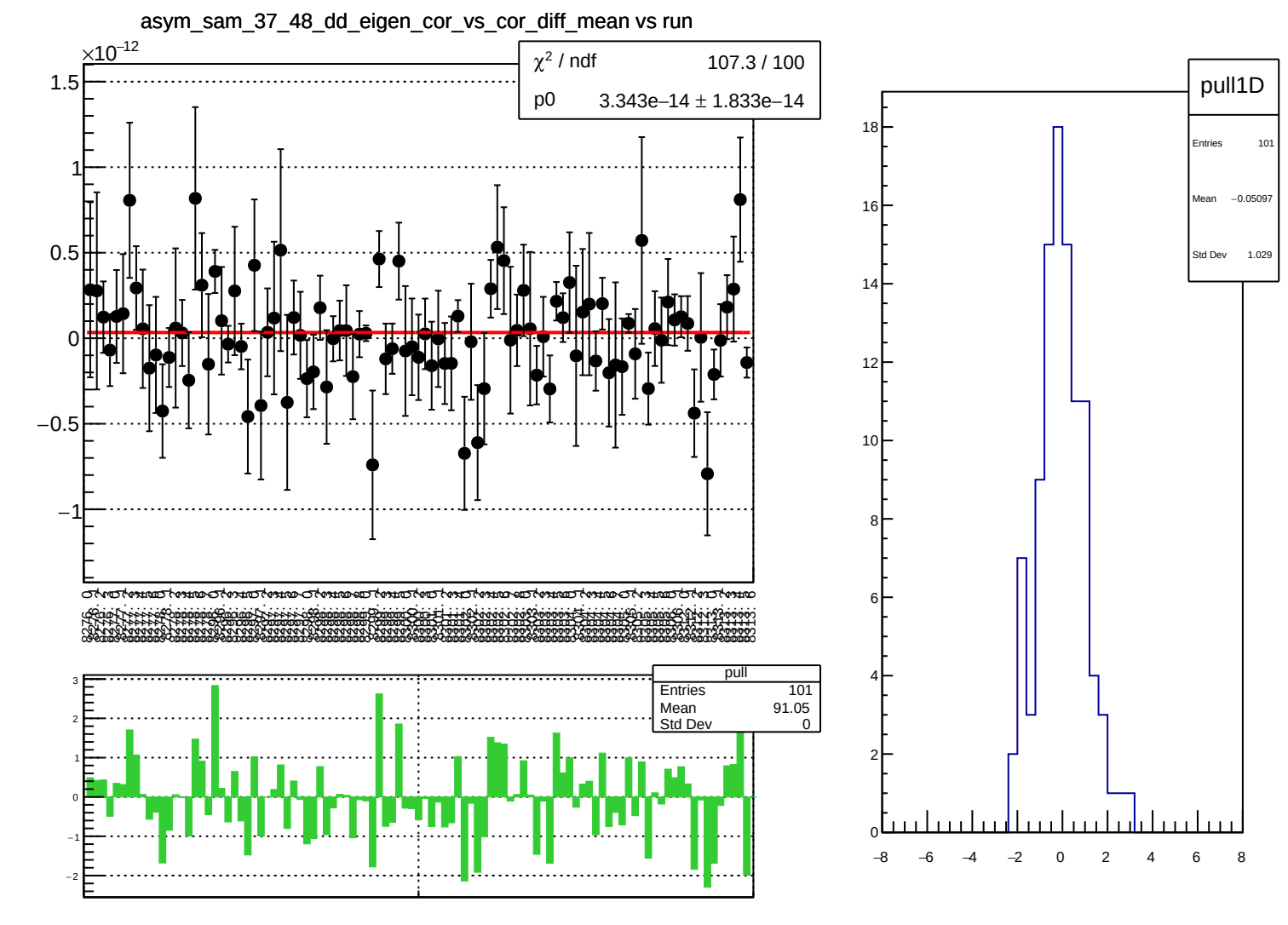

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.73 / 100
p0 −0.01242 ± 0.03756
pull
Entries 101
Mean −3411
Std Dev 0

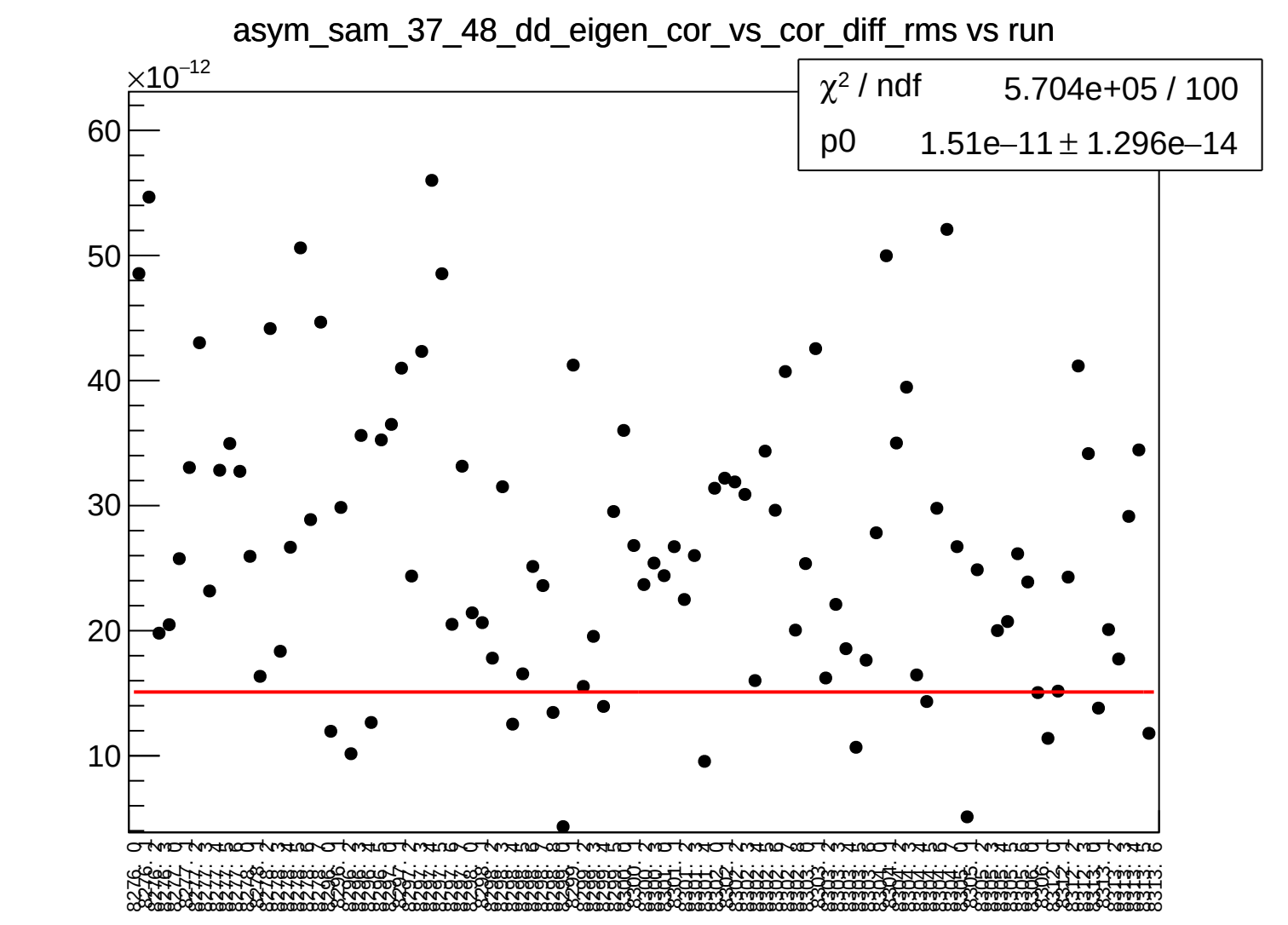

pull1D
Entries 101
Mean 0.001297
Std Dev 0.9634

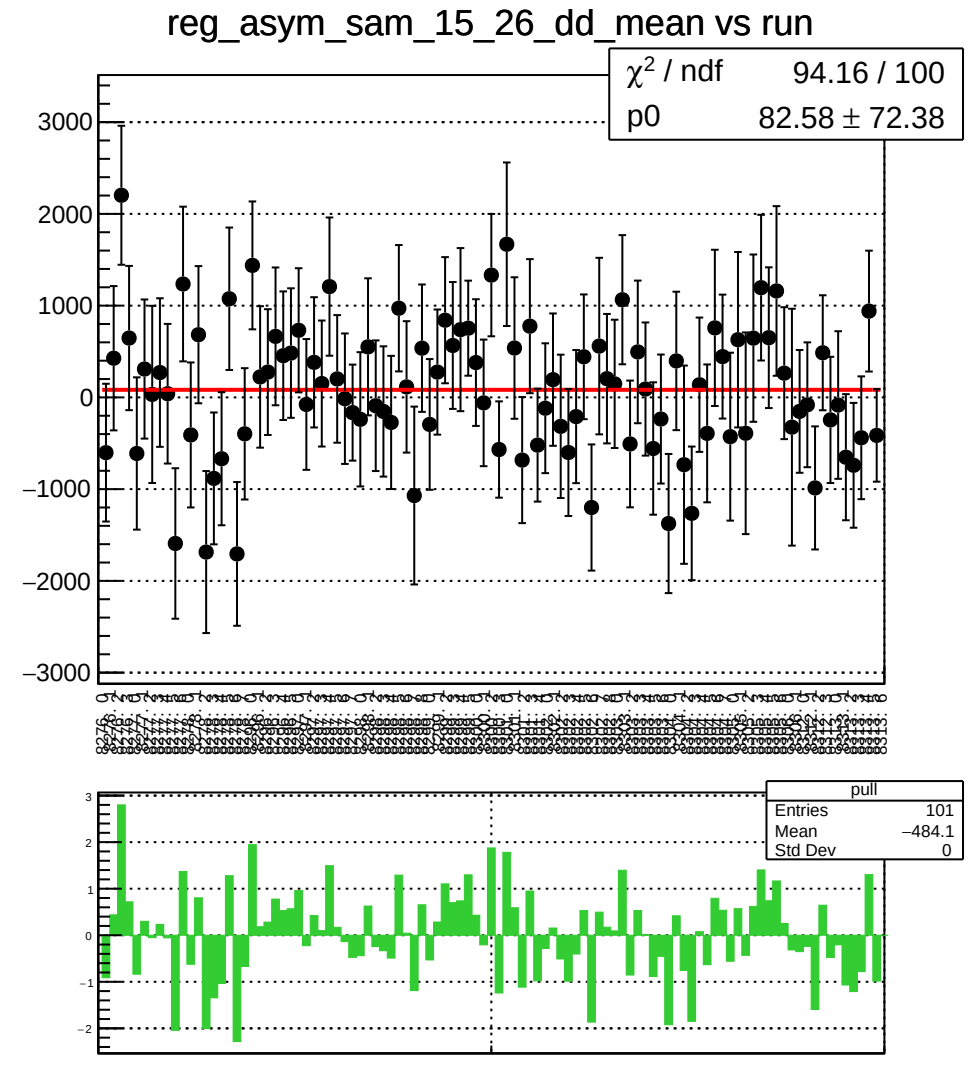

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.676e+04 / 100
p0 36.33 ± 0.02656
55
50
45
40
35
30

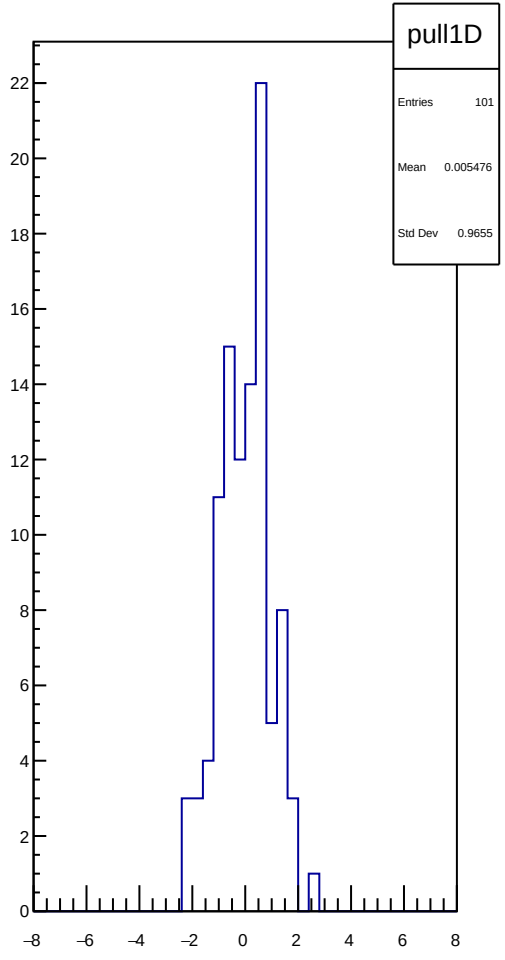

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.73 / 100
p0 −0.01242 ± 0.03756
pull
Entries 101
Mean −3411
Std Dev 0
pull1D
Entries 101
Mean 0.001297
Std Dev 0.9634

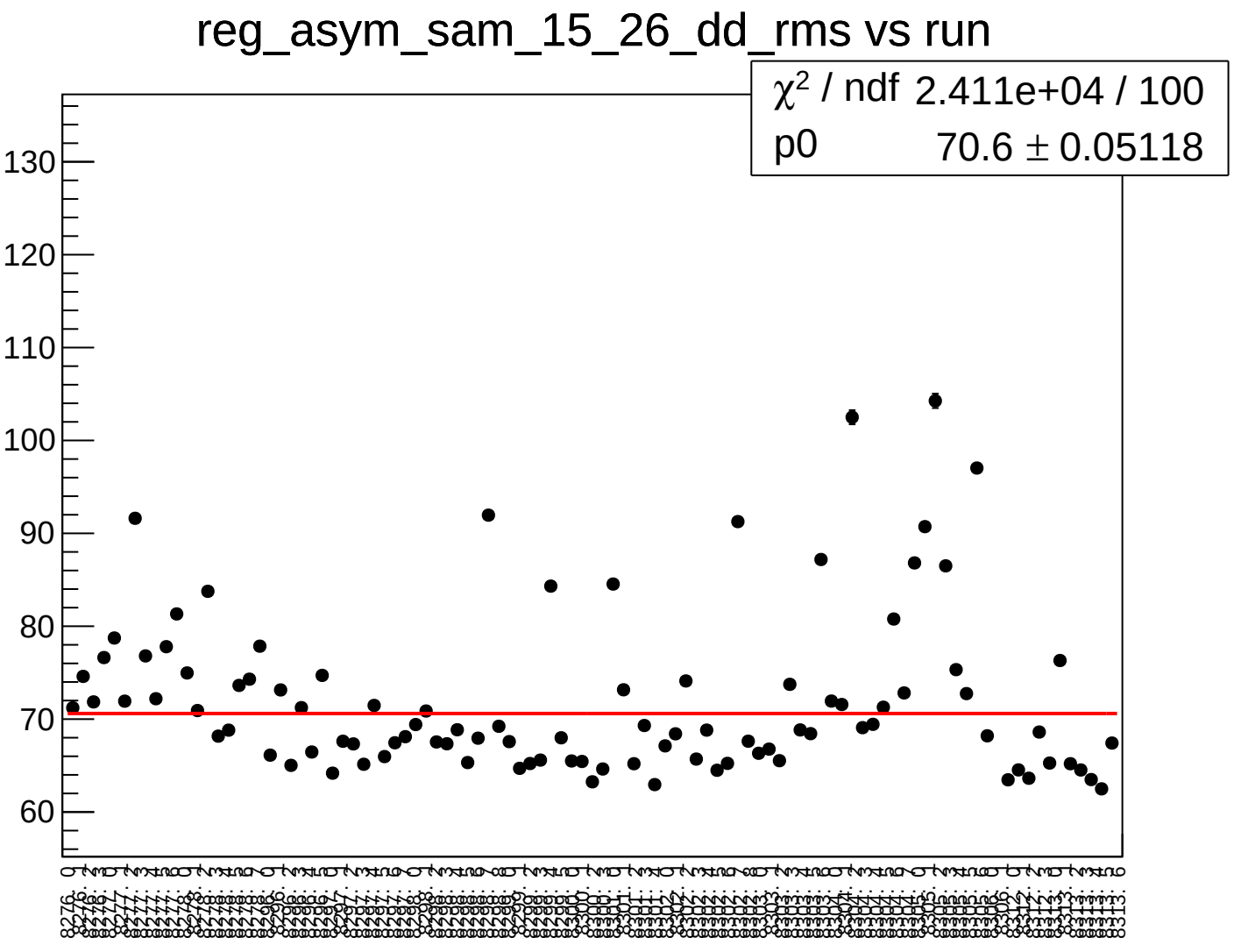

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.676e+04 / 100
p0 36.33 ± 0.02656
55
50
45
40
35
30

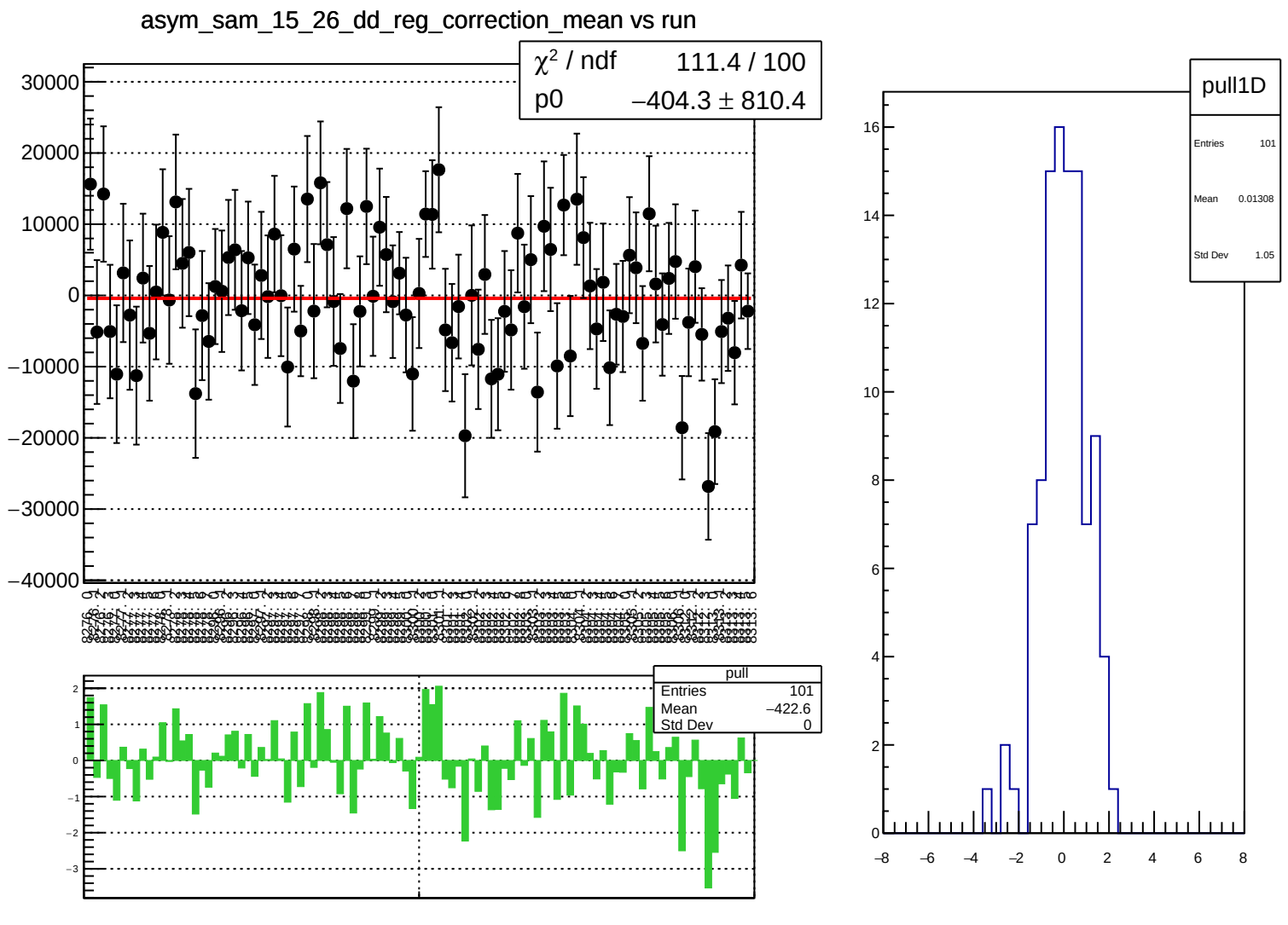

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 107.3 / 100
p0 3.343e−14 ± 1.833e−14
1.5
1
0.5
0
−0.5
−1
pull
Entries 101
Mean 91.05
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.05097
Std Dev 1.029
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

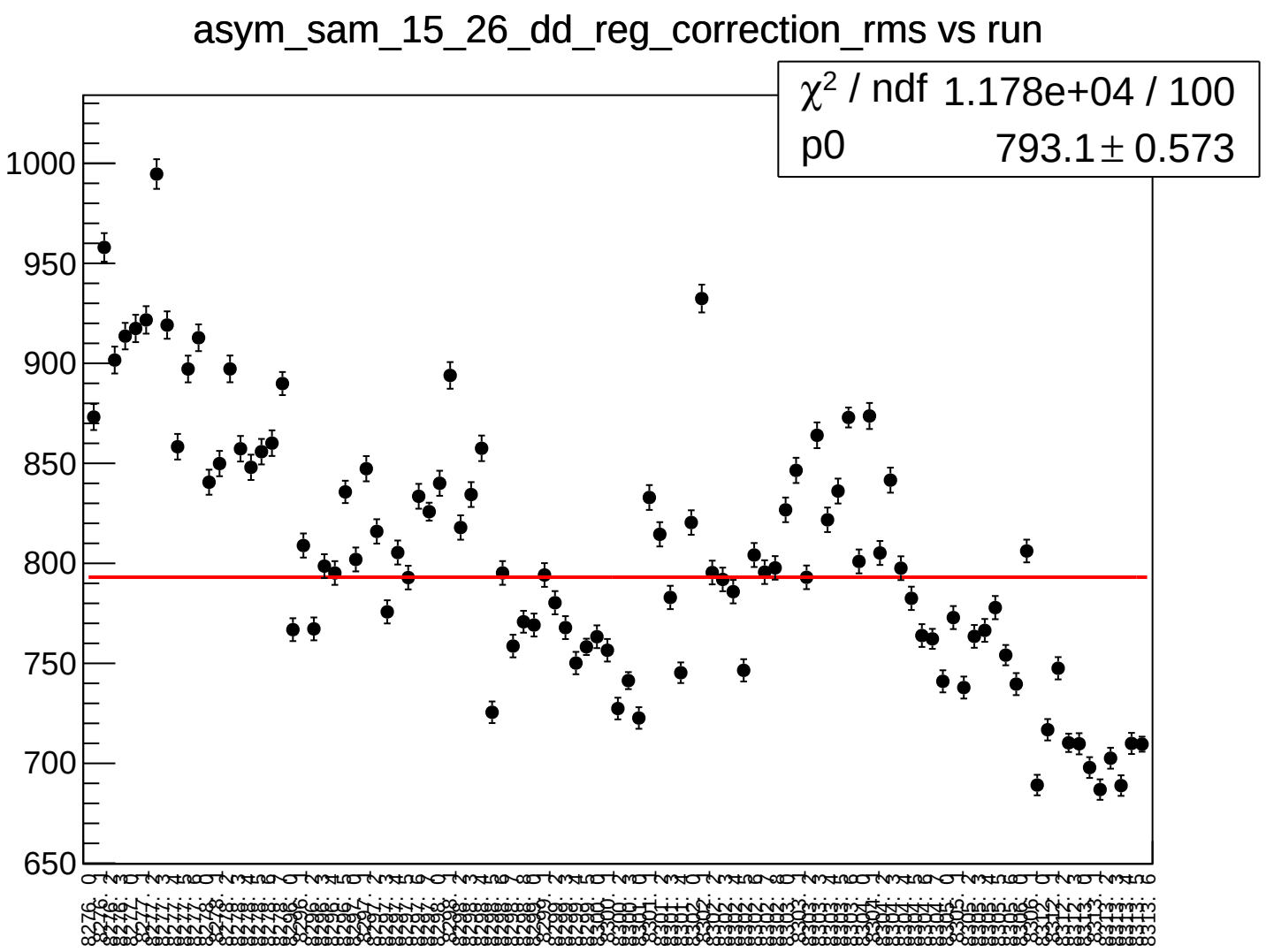

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.704e+05 / 100
p0 1.51e−11 ± 1.296e−14
60
50
40
30
20
10

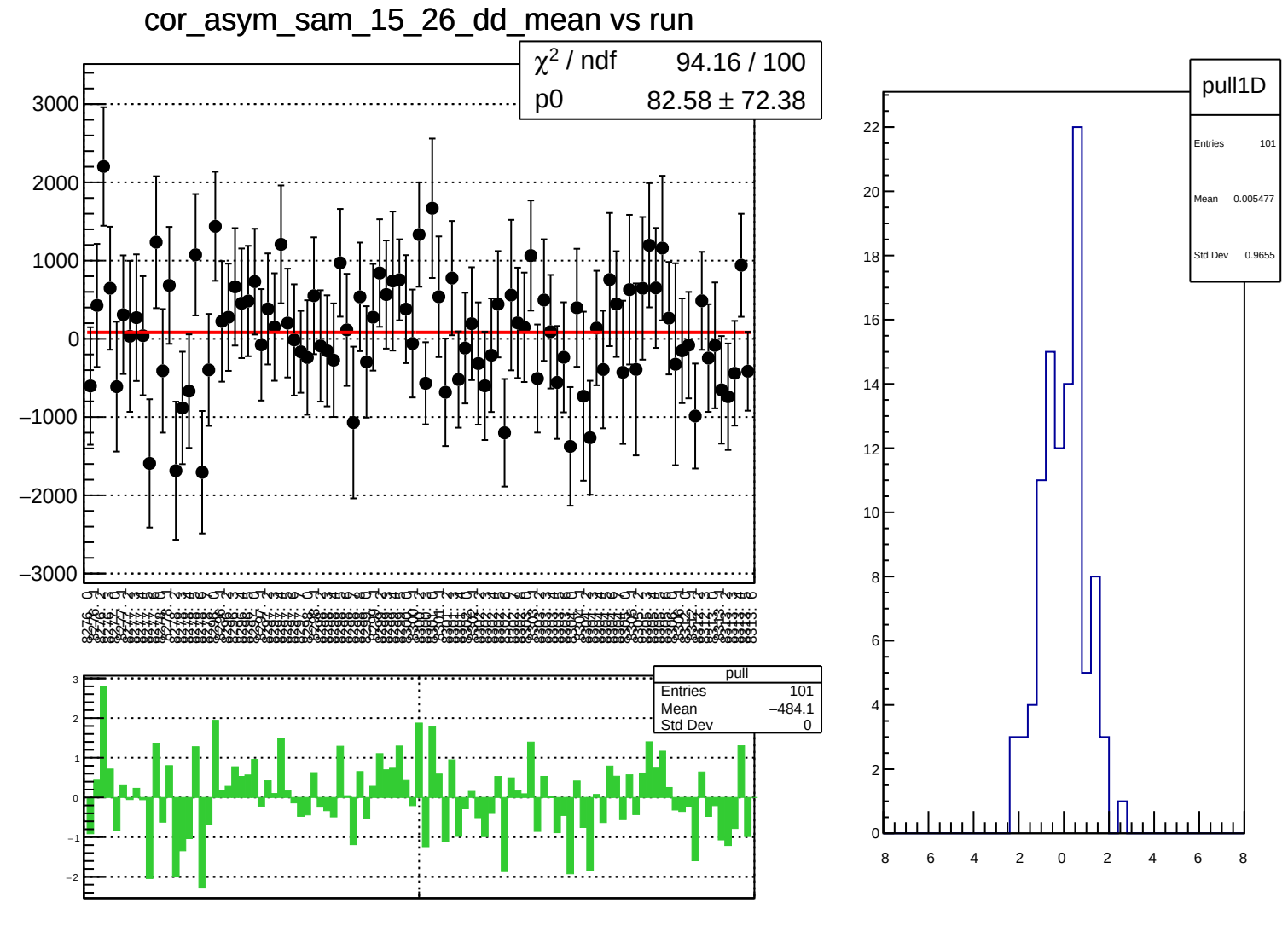

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 94.16 / 100
p0 82.58 ± 72.38
pull
Entries 101
Mean −484.1
Std Dev 0

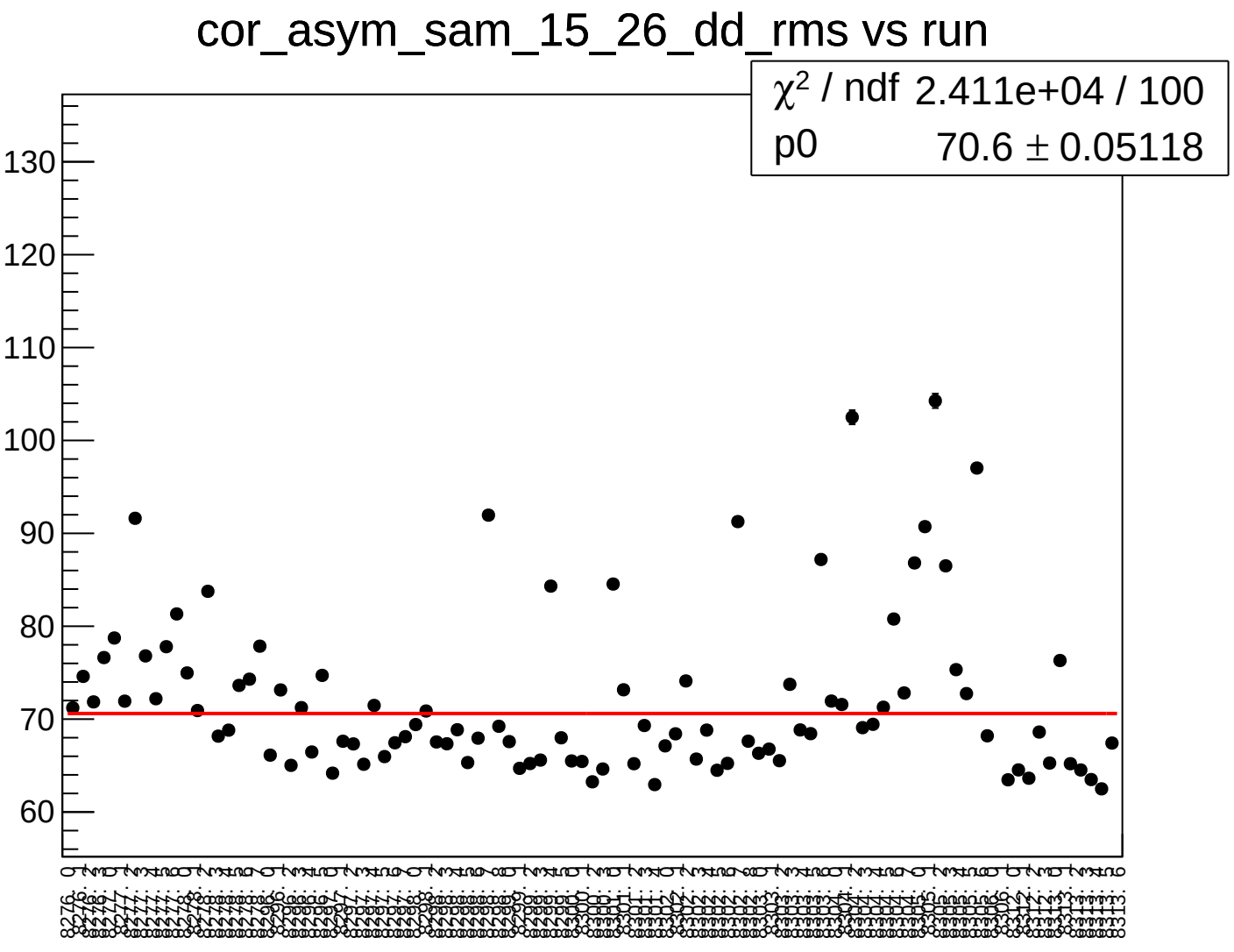

pull1D
Entries 101
Mean 0.005476
Std Dev 0.9655

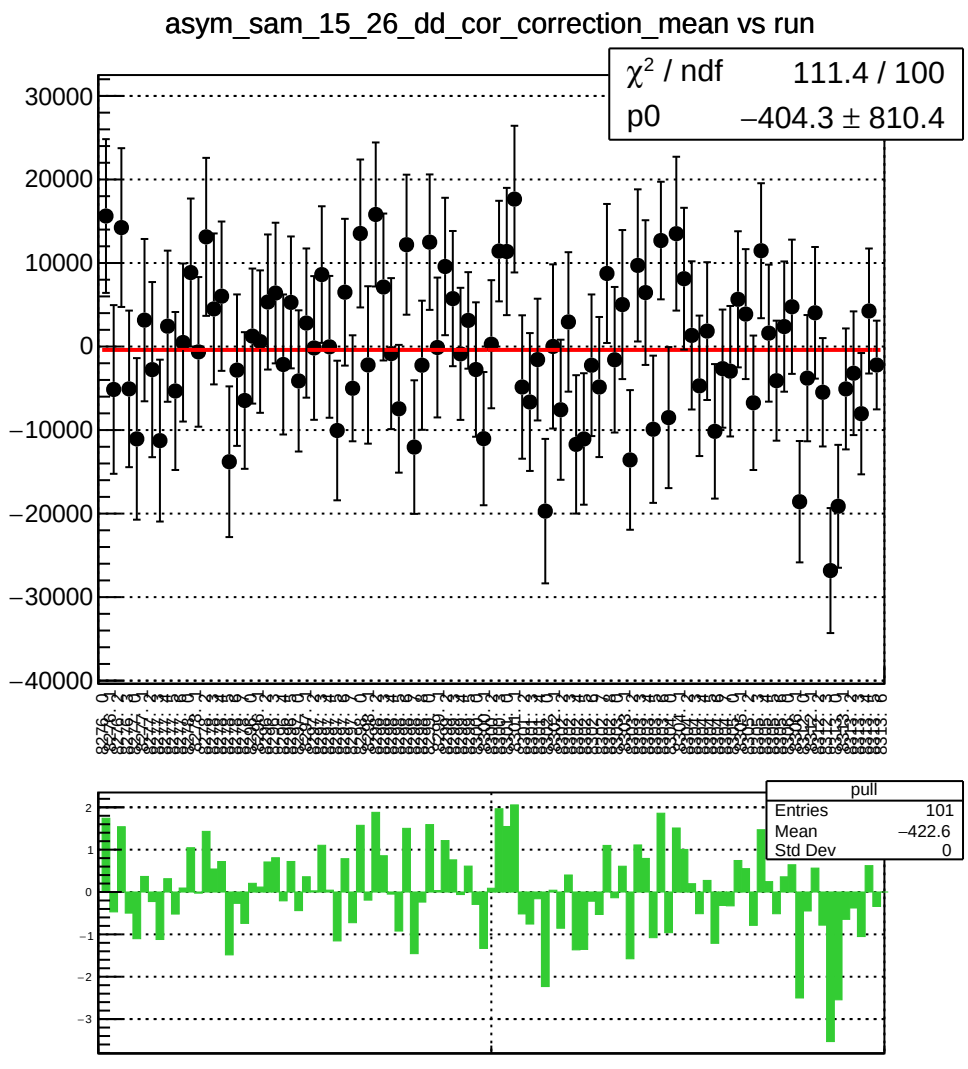

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 2.411e+04 / 100
p0 70.6 ± 0.05118
130
120
110
100
90
80
70
60

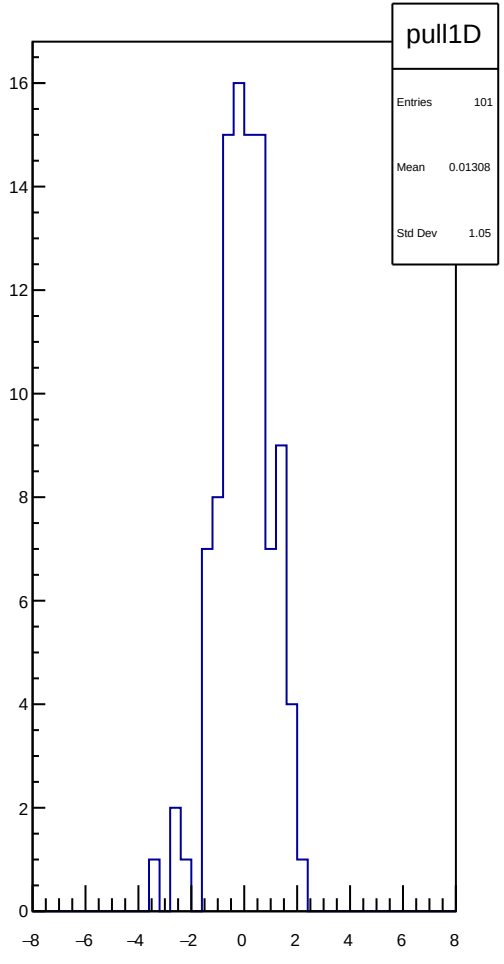

asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 111.4 / 100
p0 −404.3 ± 810.4
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 101
Mean −422.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.01308
Std Dev 1.05
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 1.178e+04 / 100
p0 793.1 ± 0.573
1000
950
900
850
800
750
700
650


cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 94.16 / 100
p0 82.58 ± 72.38
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 101
Mean −484.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.005477
Std Dev 0.9655
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_26_dd_rms vs run
χ² / ndf 2.411e+04 / 100
p0 70.6 ± 0.05118
130
120
110
100
90
80
70
60


asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 111.4 / 100
p0 −404.3 ± 810.4
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 101
Mean −422.6
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 101
Mean 0.01308
Std Dev 1.05
16
14
12
10
8
6
4
2
0
−8
−6
−4
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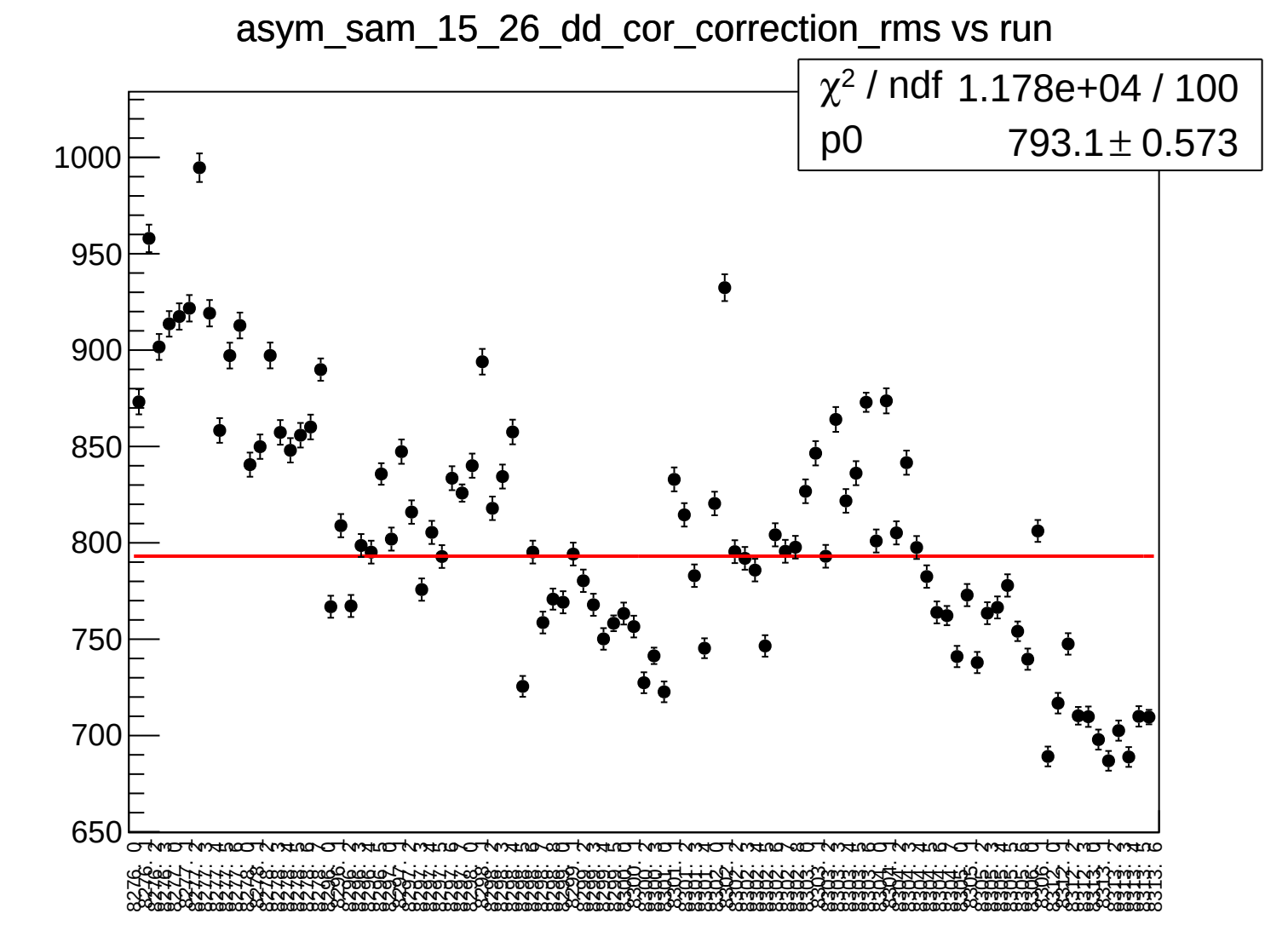
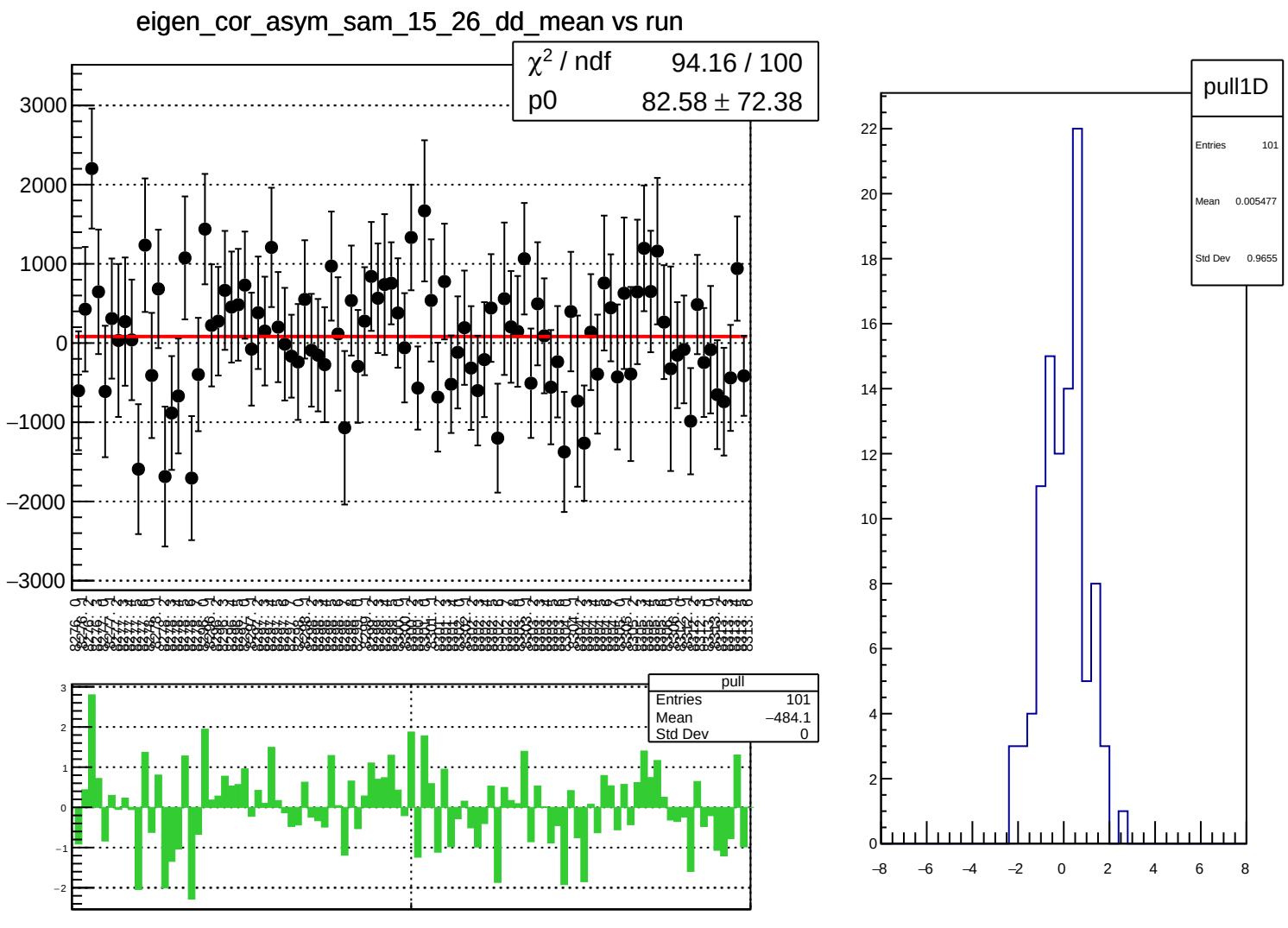
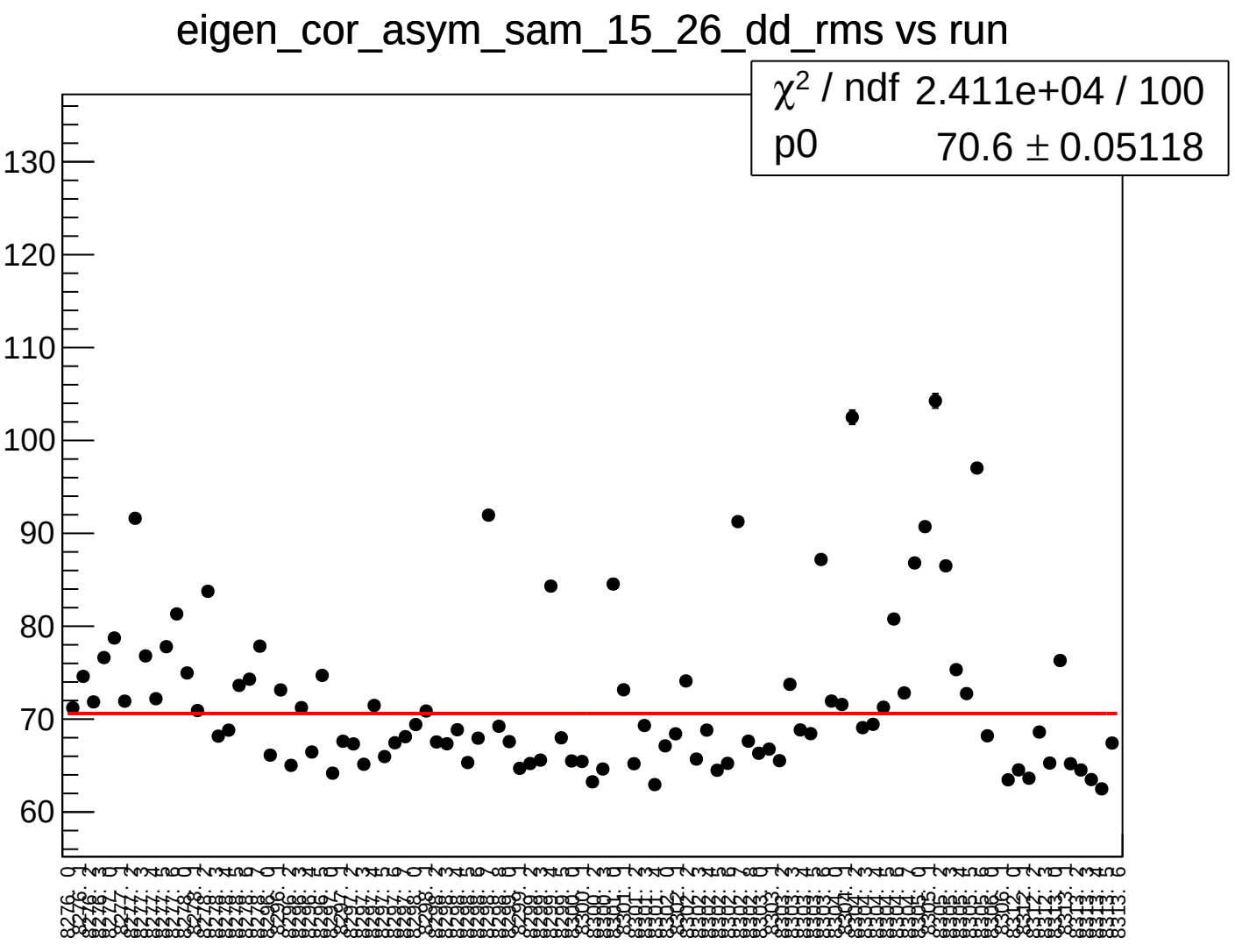
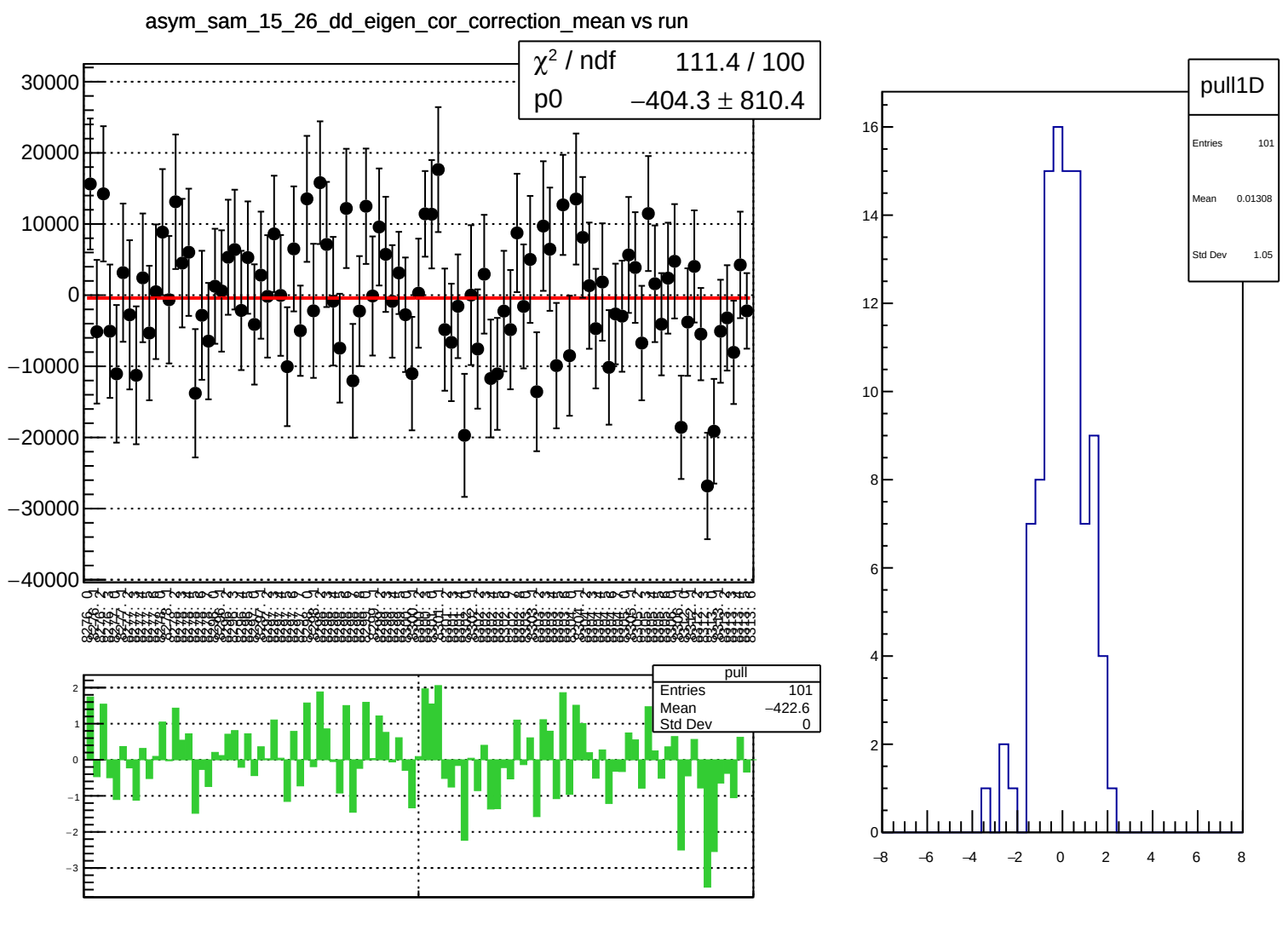
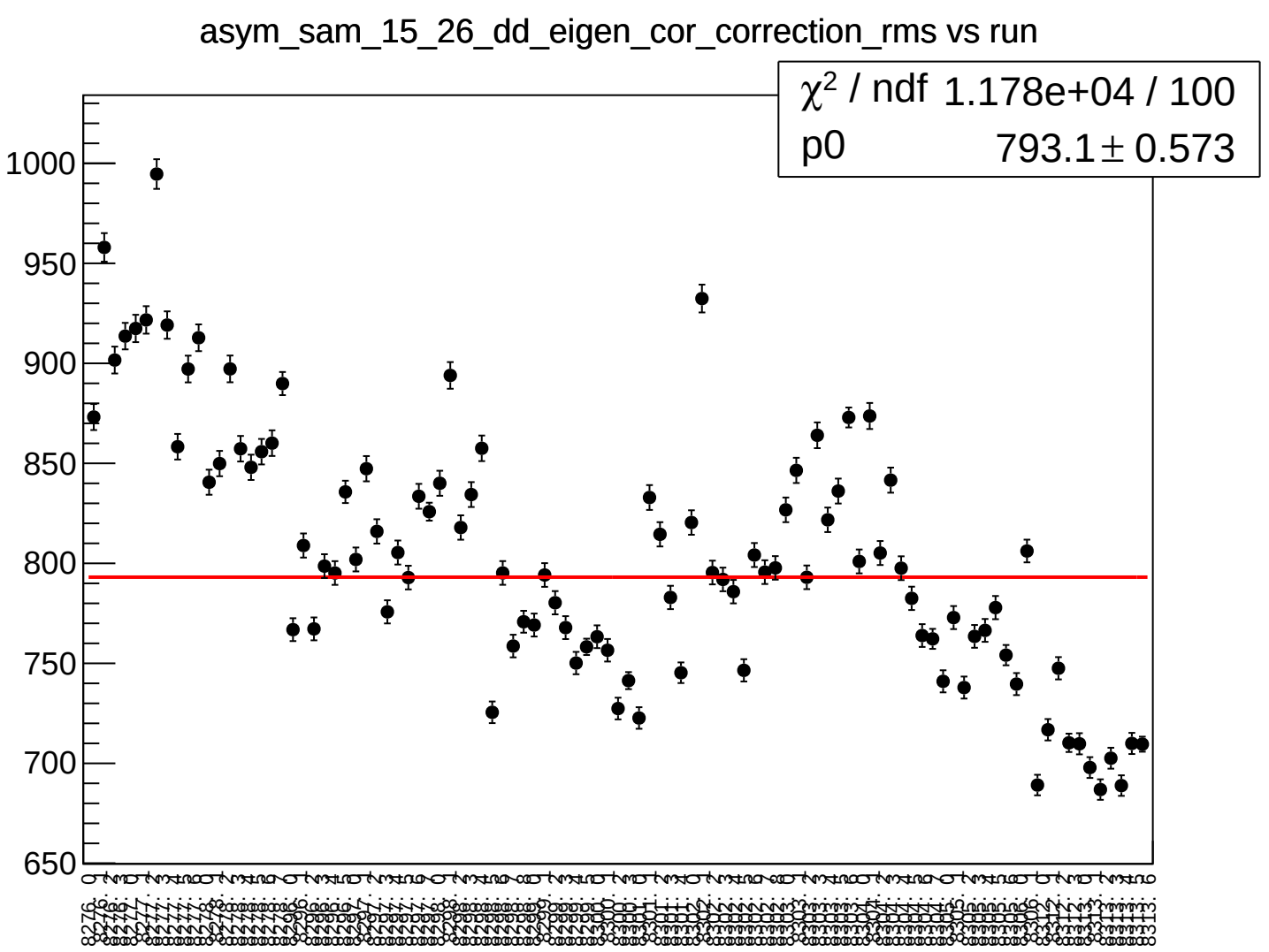
0
2
4
6
8

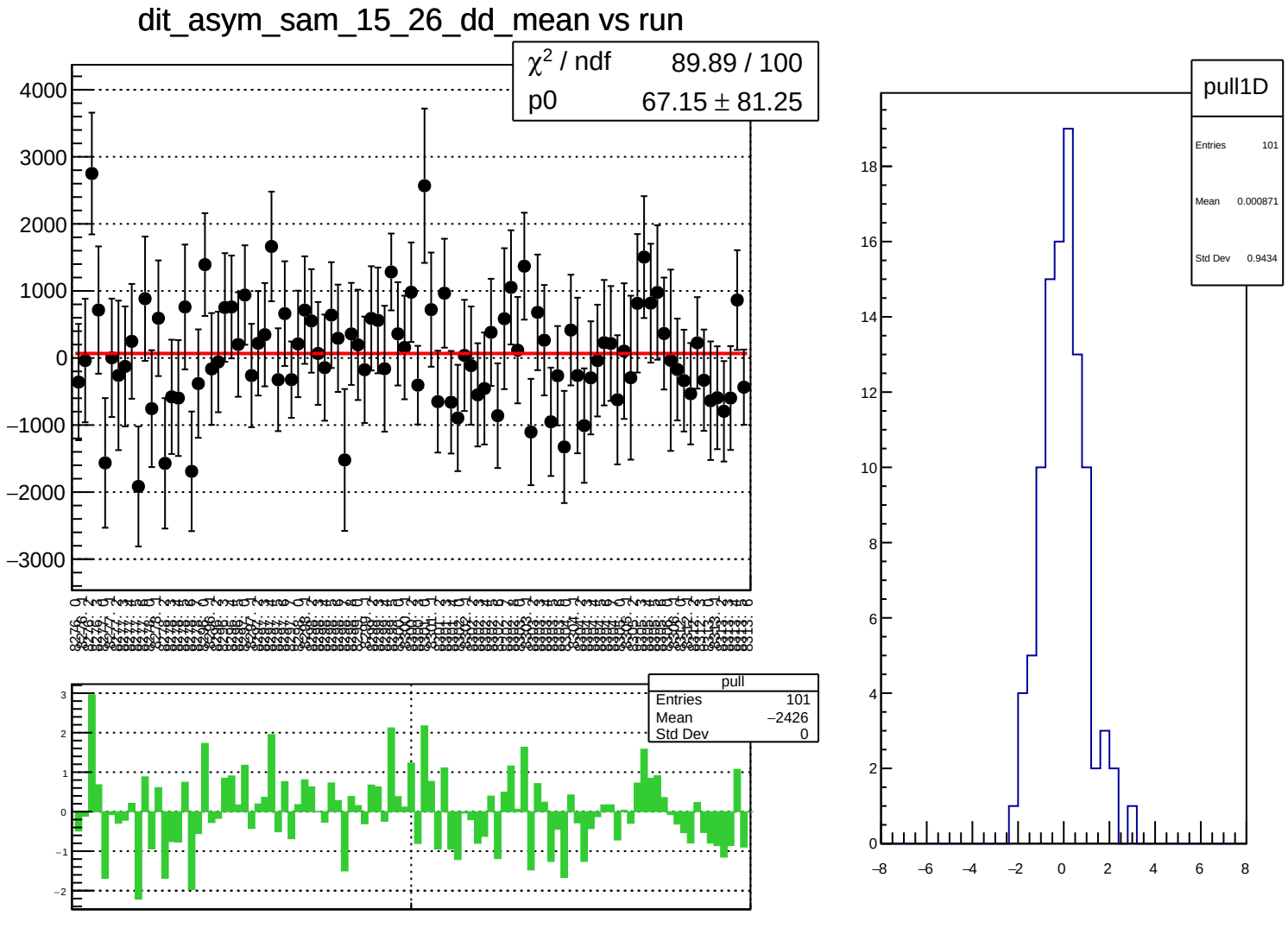

asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 1.178e+04 / 100
p0 793.1 ± 0.573
1000
950
900
850
800
750
700
650

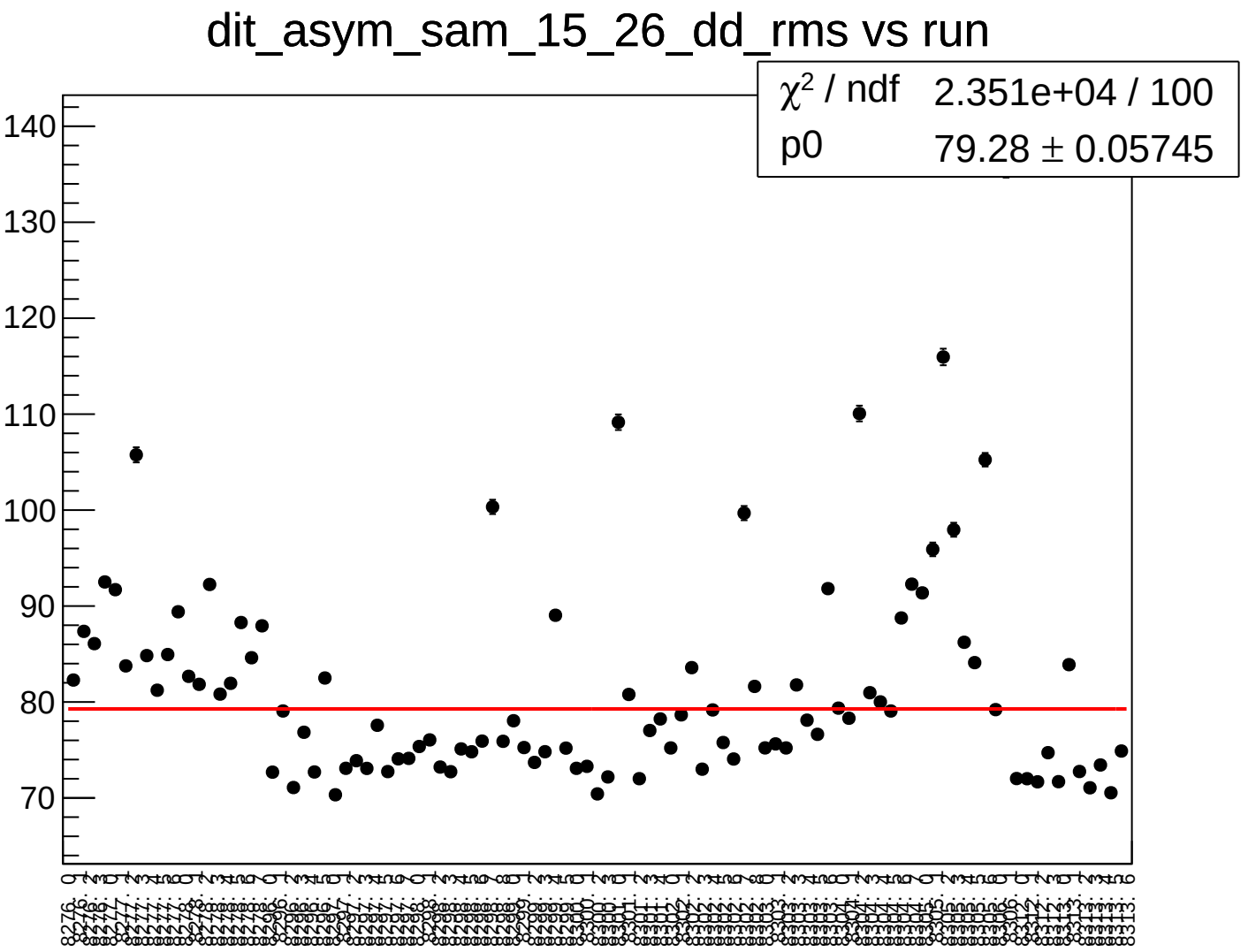

eigen_cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 94.16 / 100
p0 82.58 ± 72.38
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 101
Mean −484.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.005477
Std Dev 0.9655
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

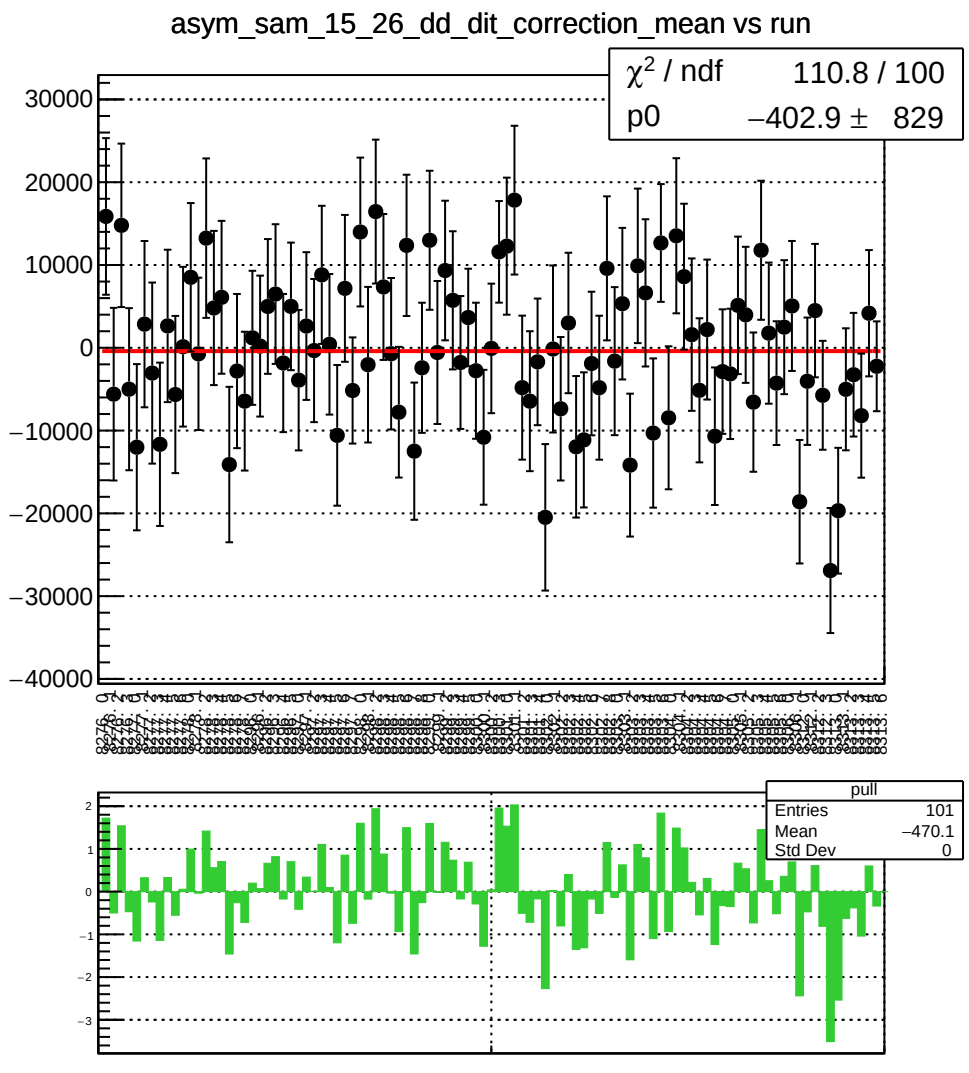

eigen_cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 2.411e+04 / 100
p0 70.6 ± 0.05118
130
120
110
100
90
80
70
60

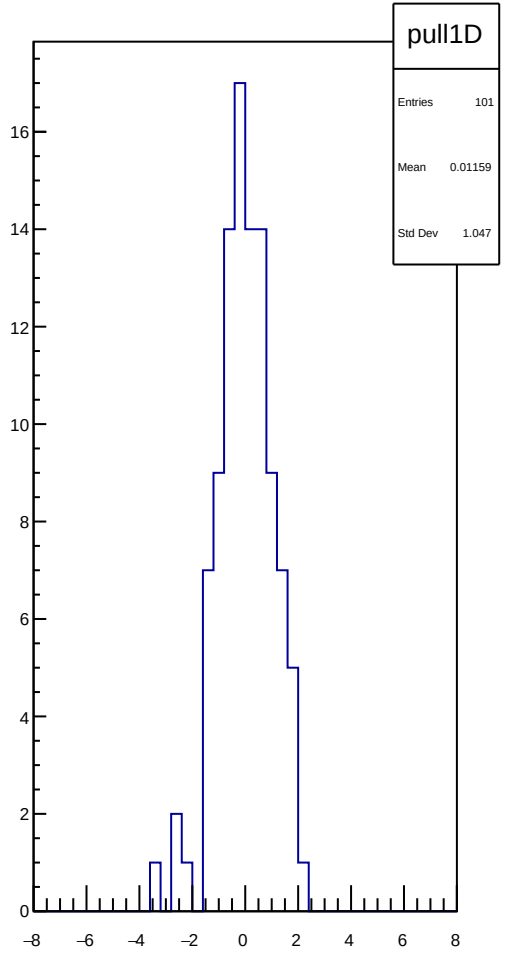

asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 111.4 / 100
p0 −404.3 ± 810.4
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 101
Mean −422.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.01308
Std Dev 1.05
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

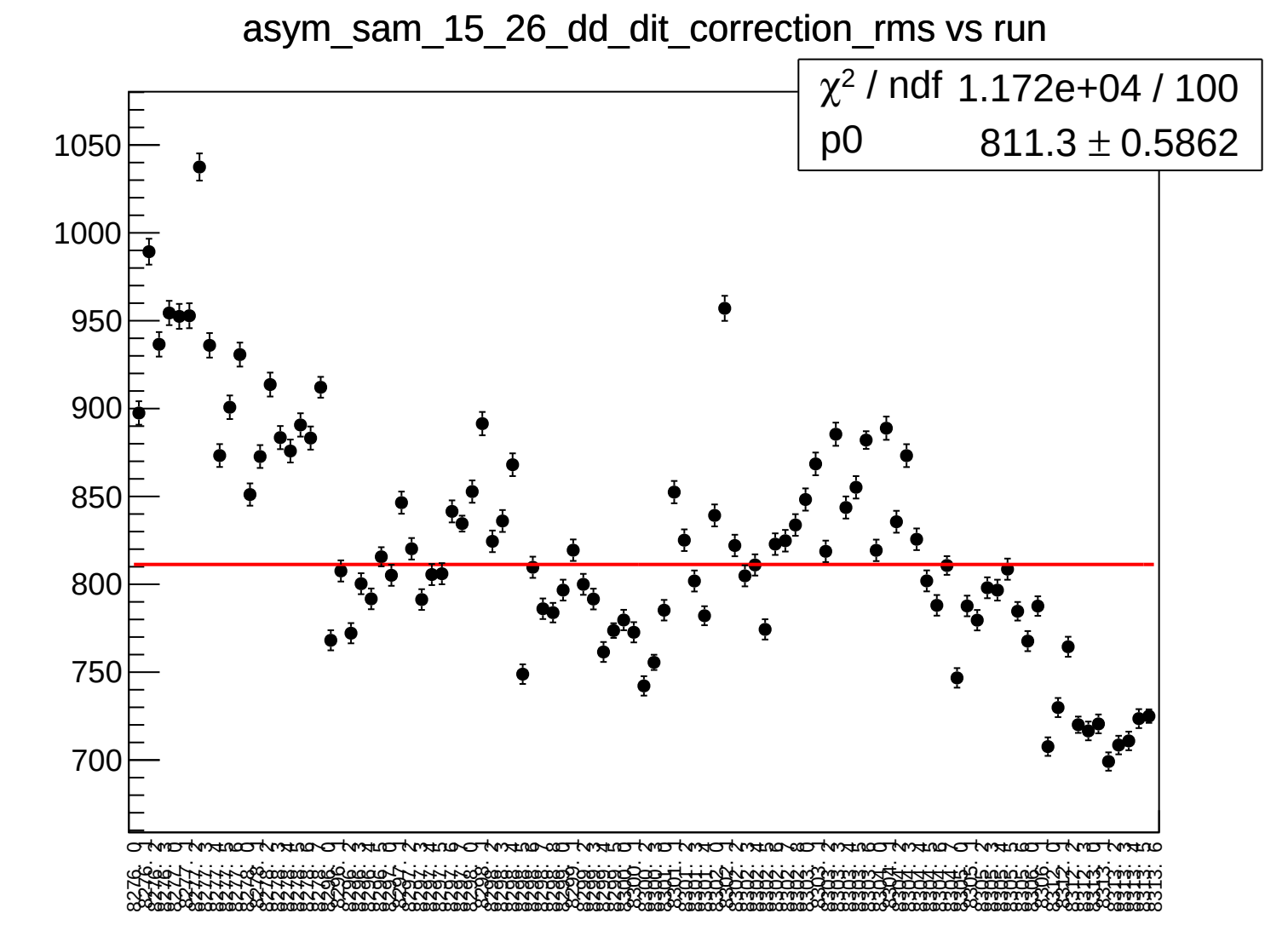

asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.178e+04 / 100
p0 793.1 ± 0.573
1000
950
900
850
800
750
700
650

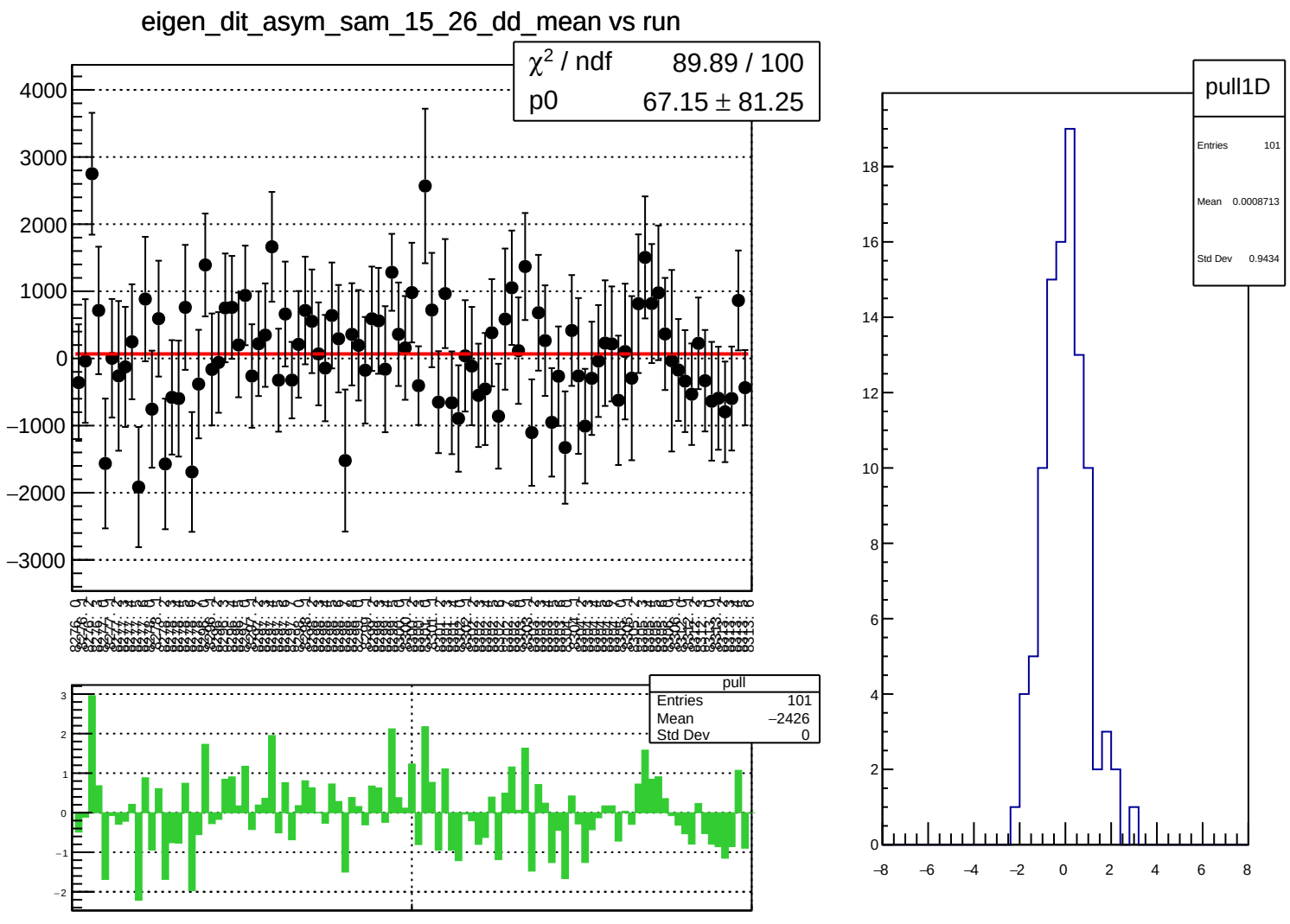

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 89.89 / 100
p0 67.15 ± 81.25
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 101
Mean −2426
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.000871
Std Dev 0.9434
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

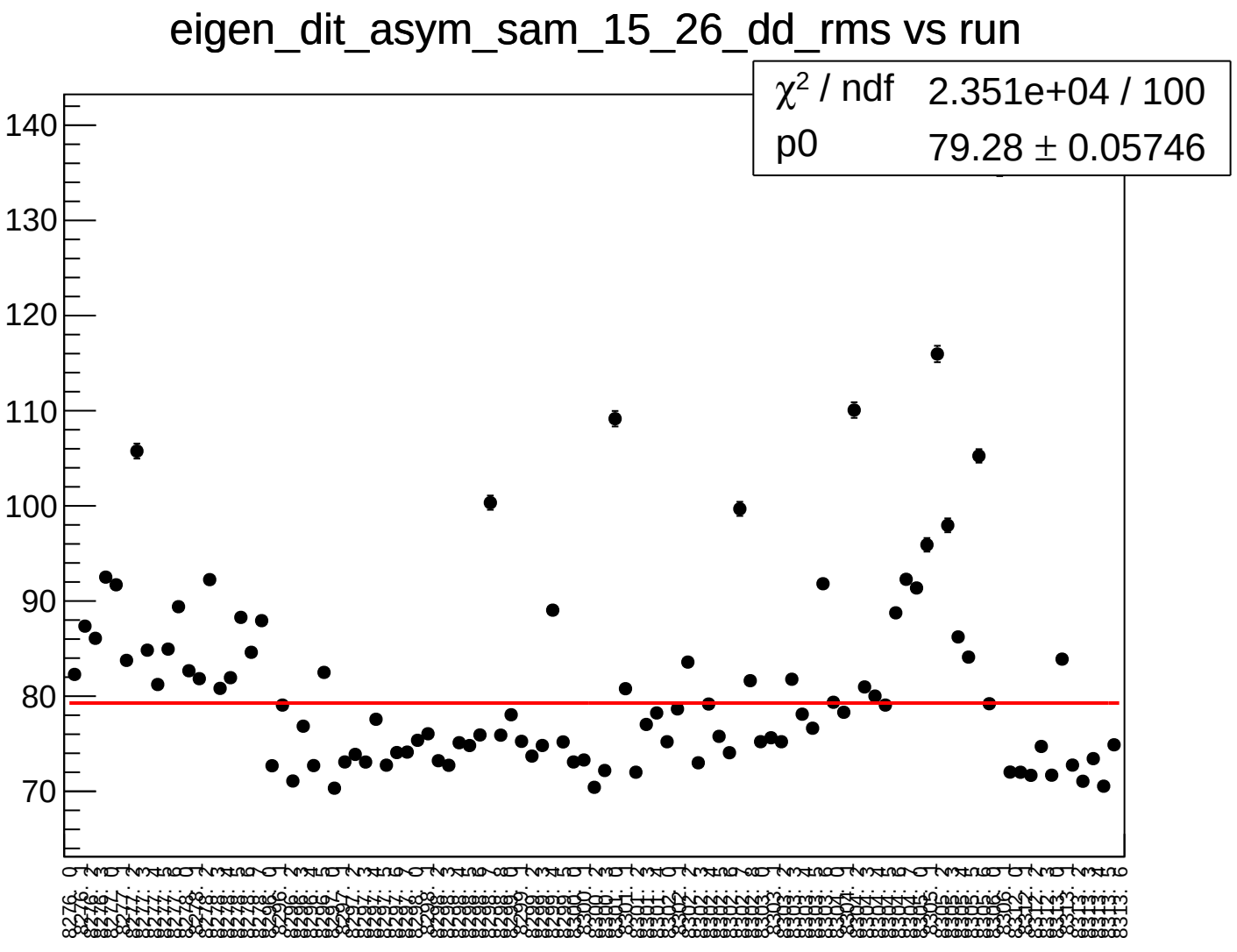

dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 2.351e+04 / 100
p0 79.28 ± 0.05745
140
130
120
110
100
90
80
70

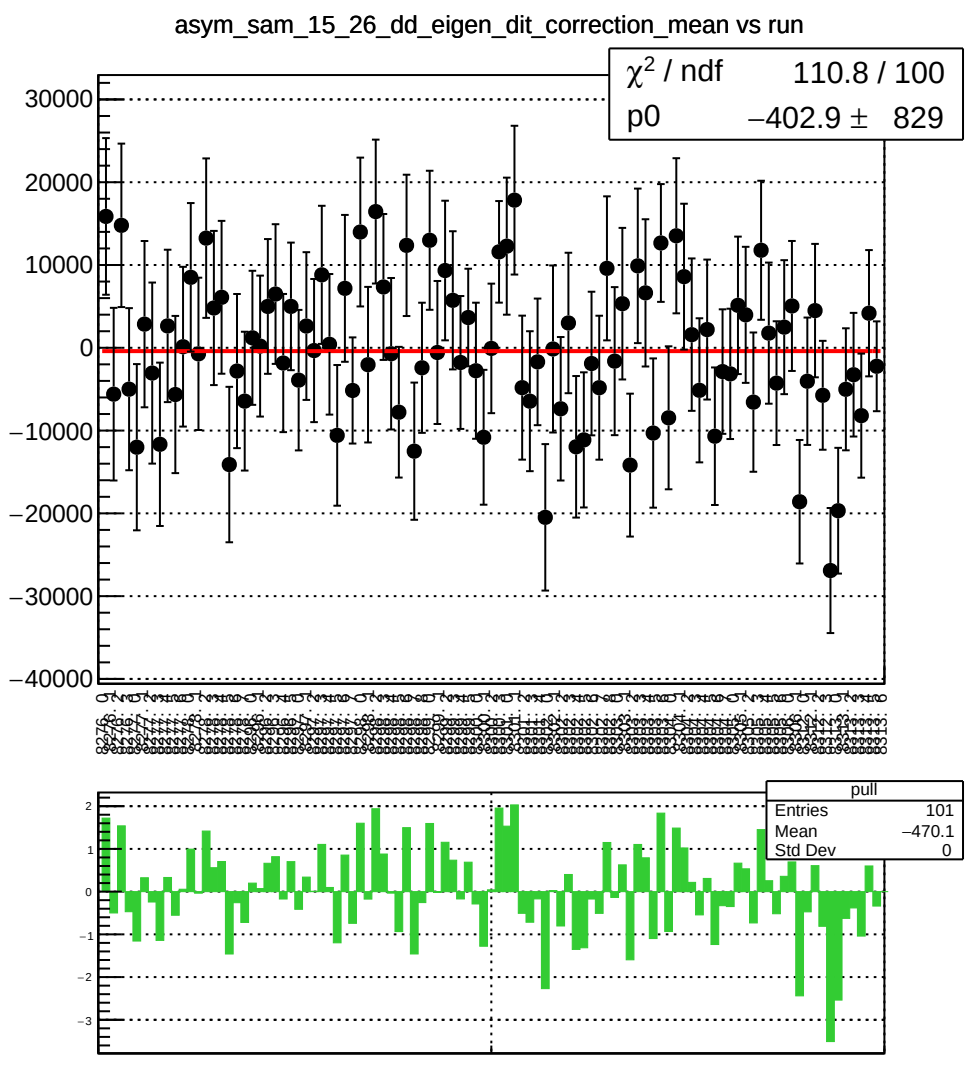

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 110.8 / 100
p0 −402.9 ± 829
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 101
Mean −470.1
Std Dev 0
2
1
0
−1
−2
−3

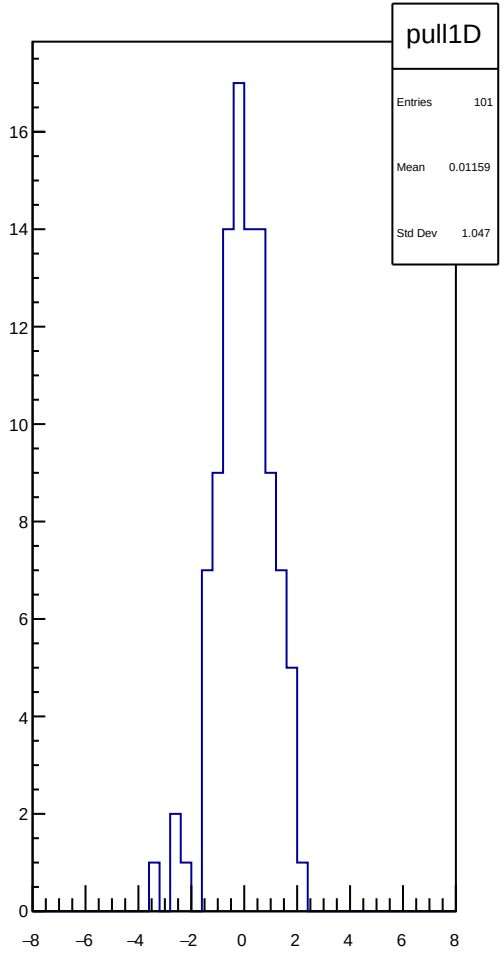

pull1D
Entries 101
Mean 0.01159
Std Dev 1.047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

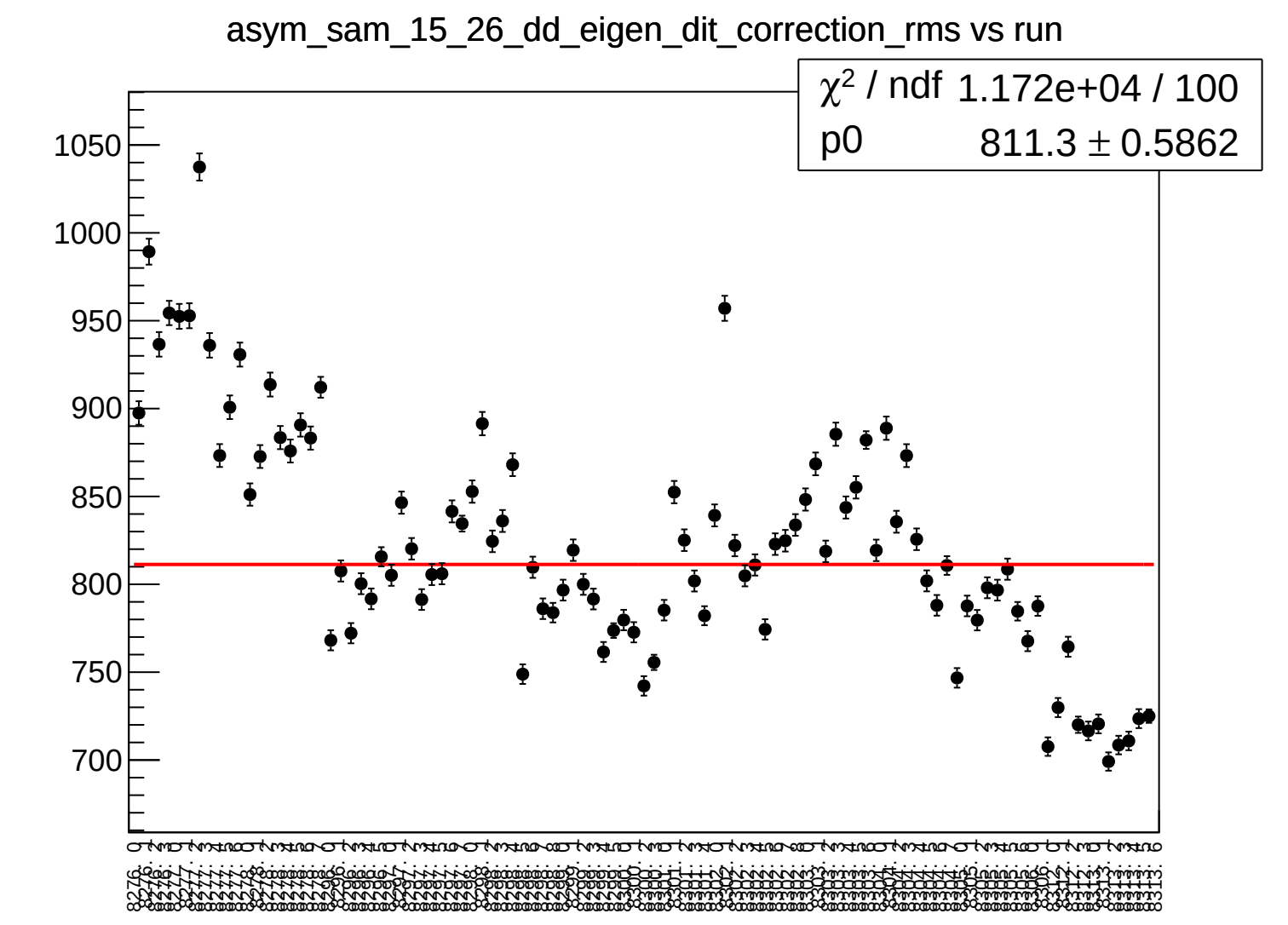

asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 1.172e+04 / 100
p0 811.3 ± 0.5862
1050
1000
950
900
850
800
750
700

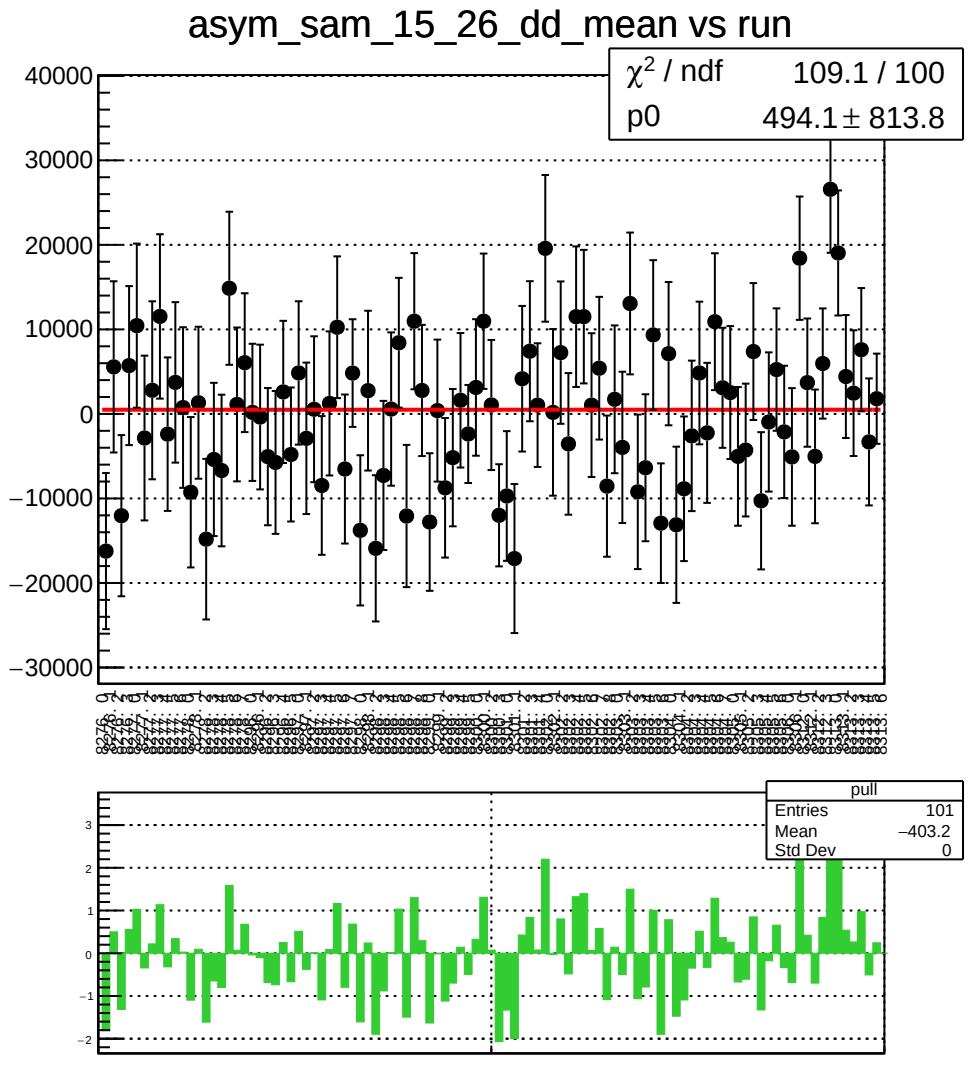

eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 89.89 / 100
p0 67.15 ± 81.25
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 101
Mean −2426
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.0008713
Std Dev 0.9434
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

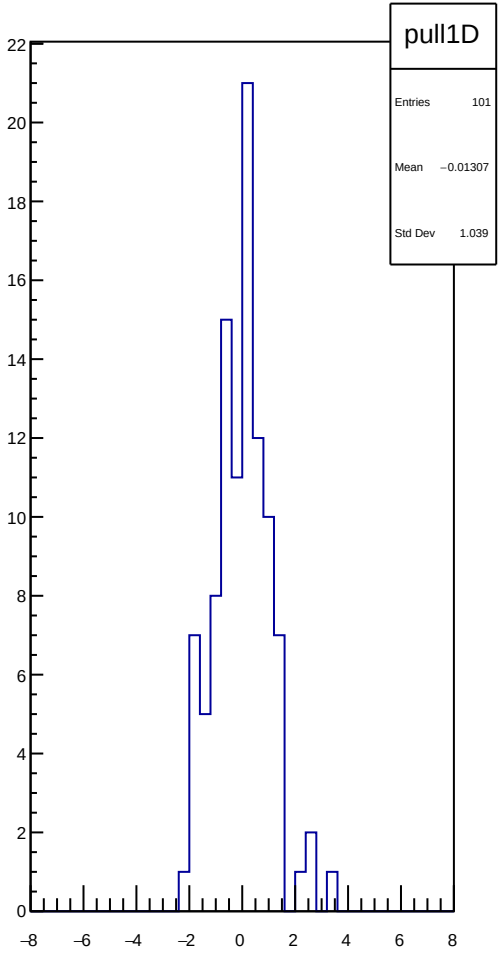

eigen_dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 2.351e+04 / 100
p0 79.28 ± 0.05746
140
130
120
110
100
90
80
70

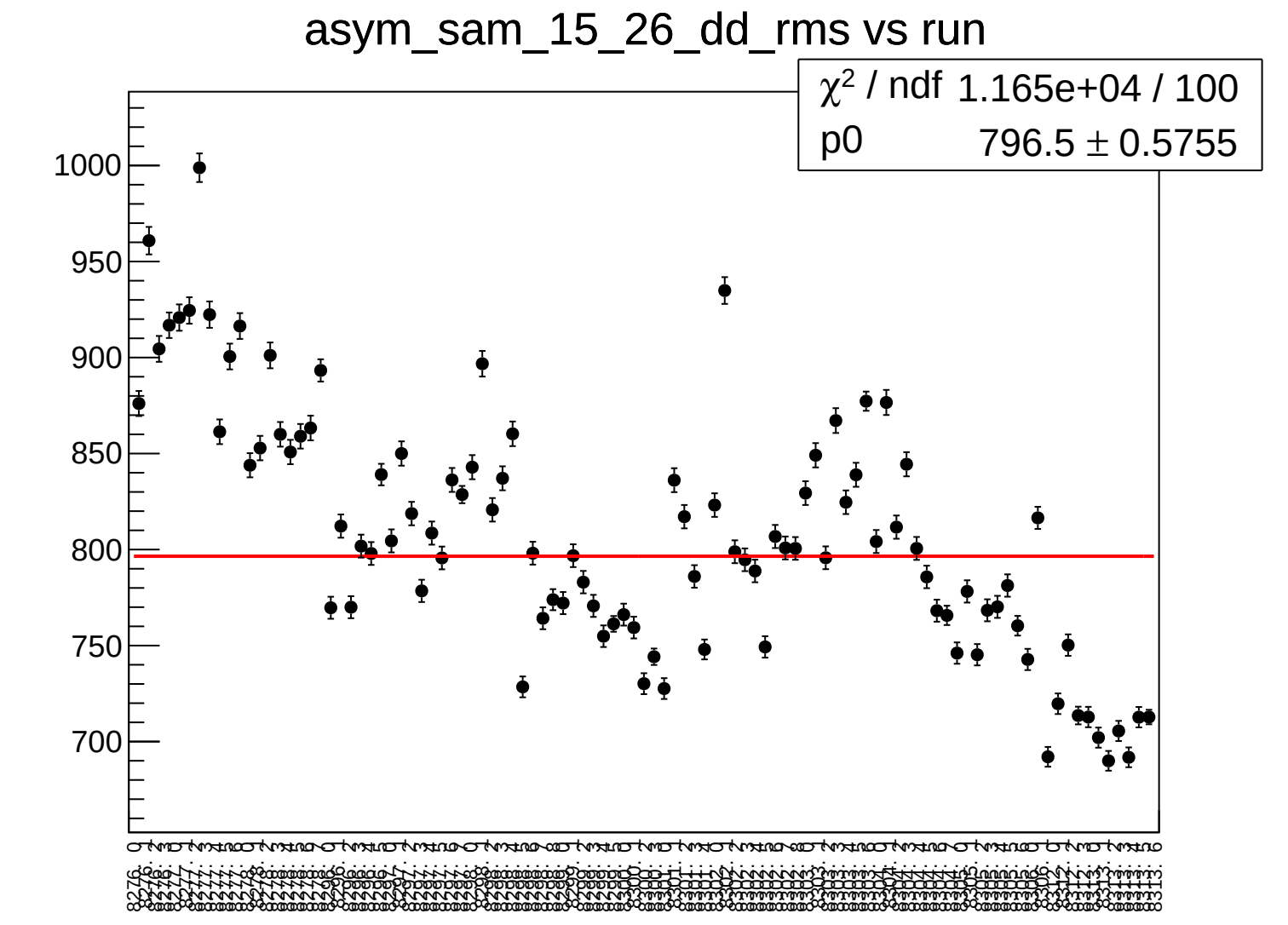

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 110.8 / 100
p0 −402.9 ± 829
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 101
Mean −470.1
Std Dev 0
2
1
0
−1
−2
−3

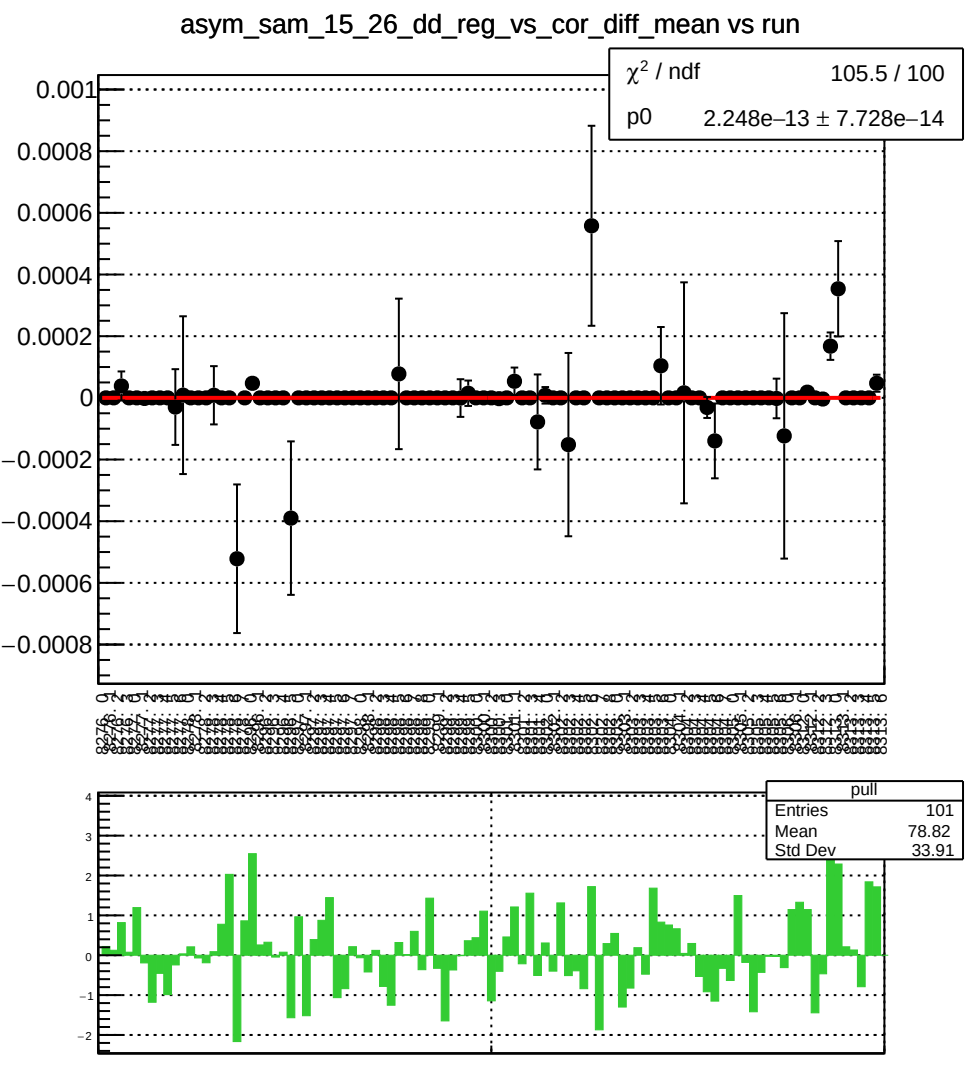

pull1D
Entries 101
Mean 0.01159
Std Dev 1.047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

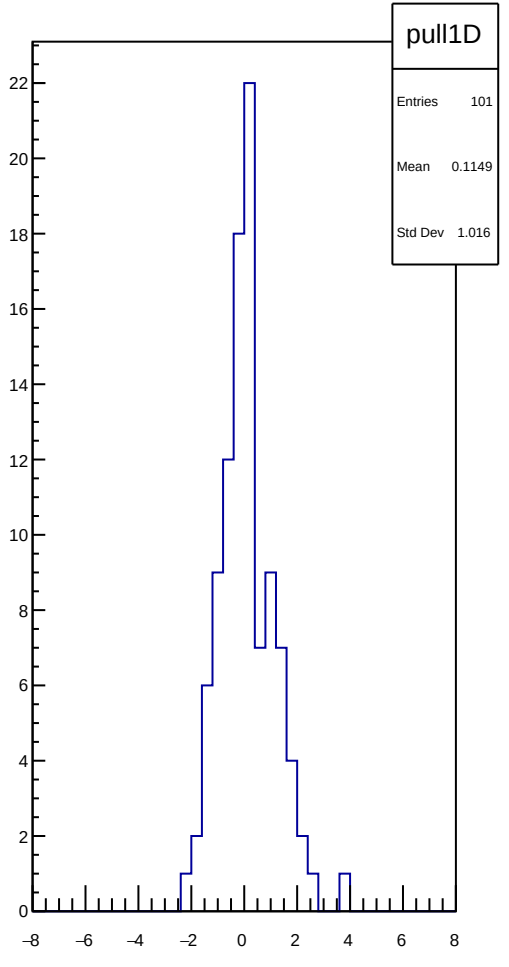

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.172e+04 / 100
p0 811.3 ± 0.5862
1050
1000
950
900
850
800
750
700

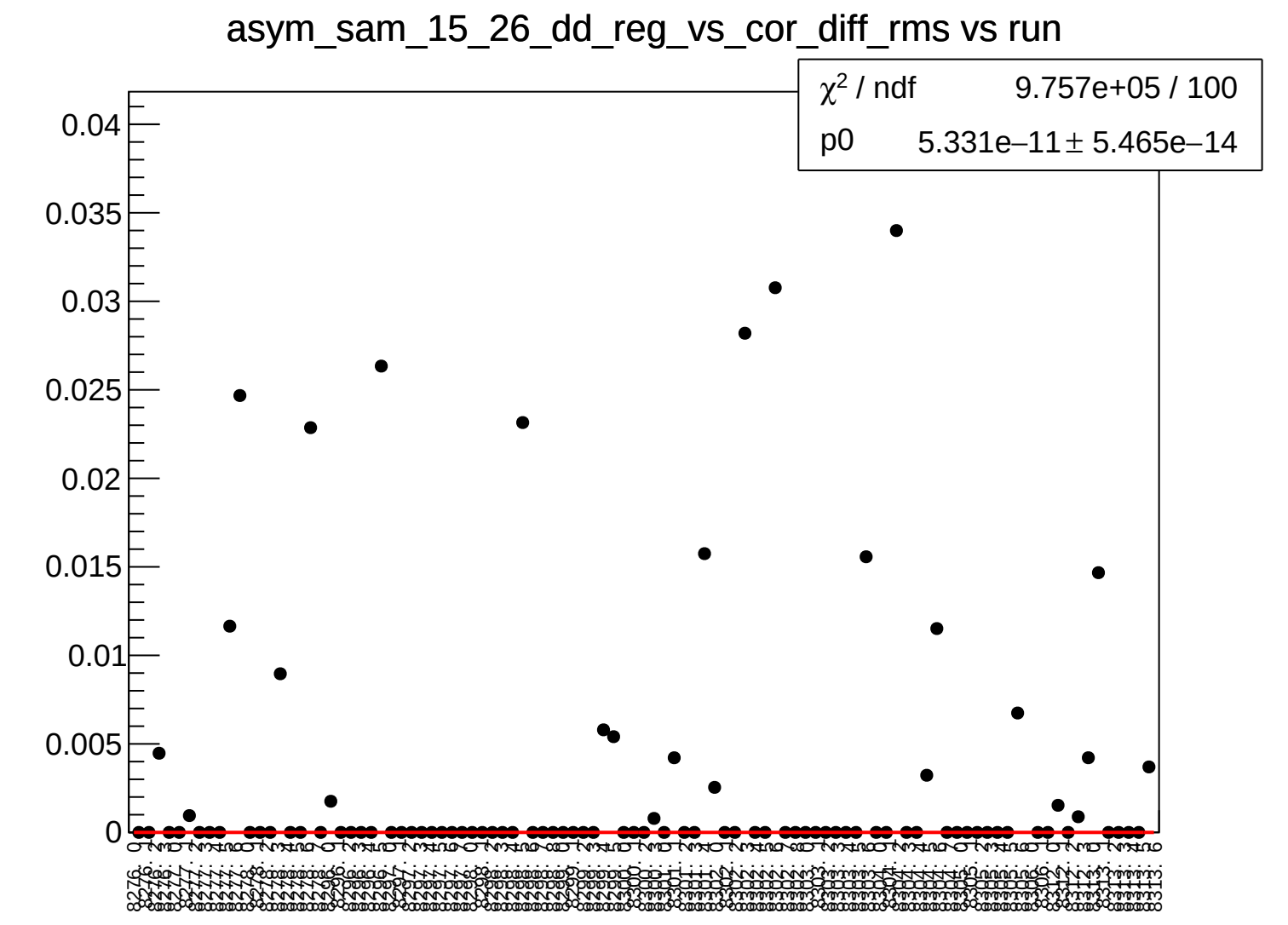

asym_sam_15_26_dd_mean vs run
χ² / ndf 109.1 / 100
p0 494.1 ± 813.8
pull
Entries 101
Mean −403.2
Std Dev 0

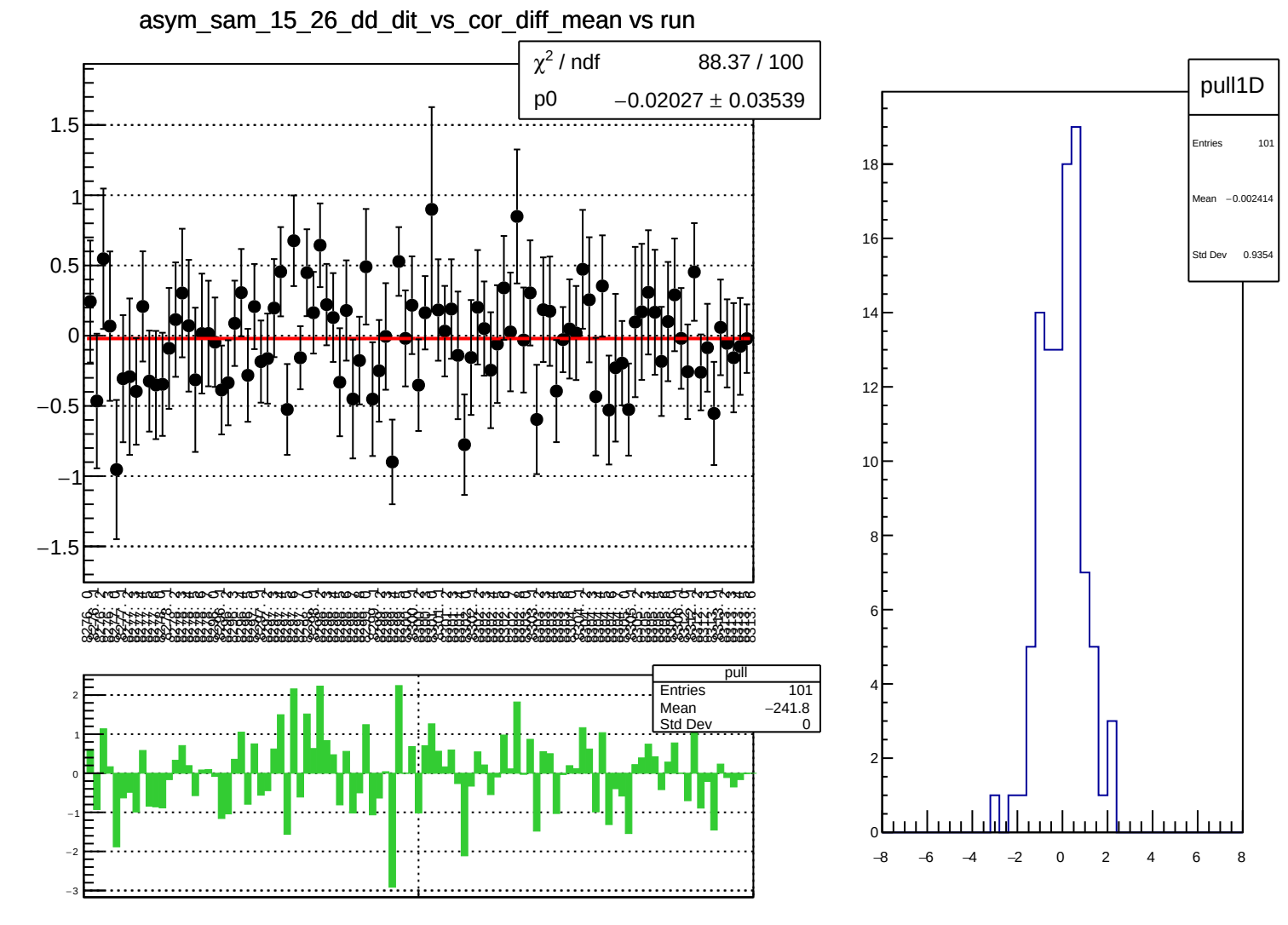

pull1D
Entries 101
Mean −0.01307
Std Dev 1.039

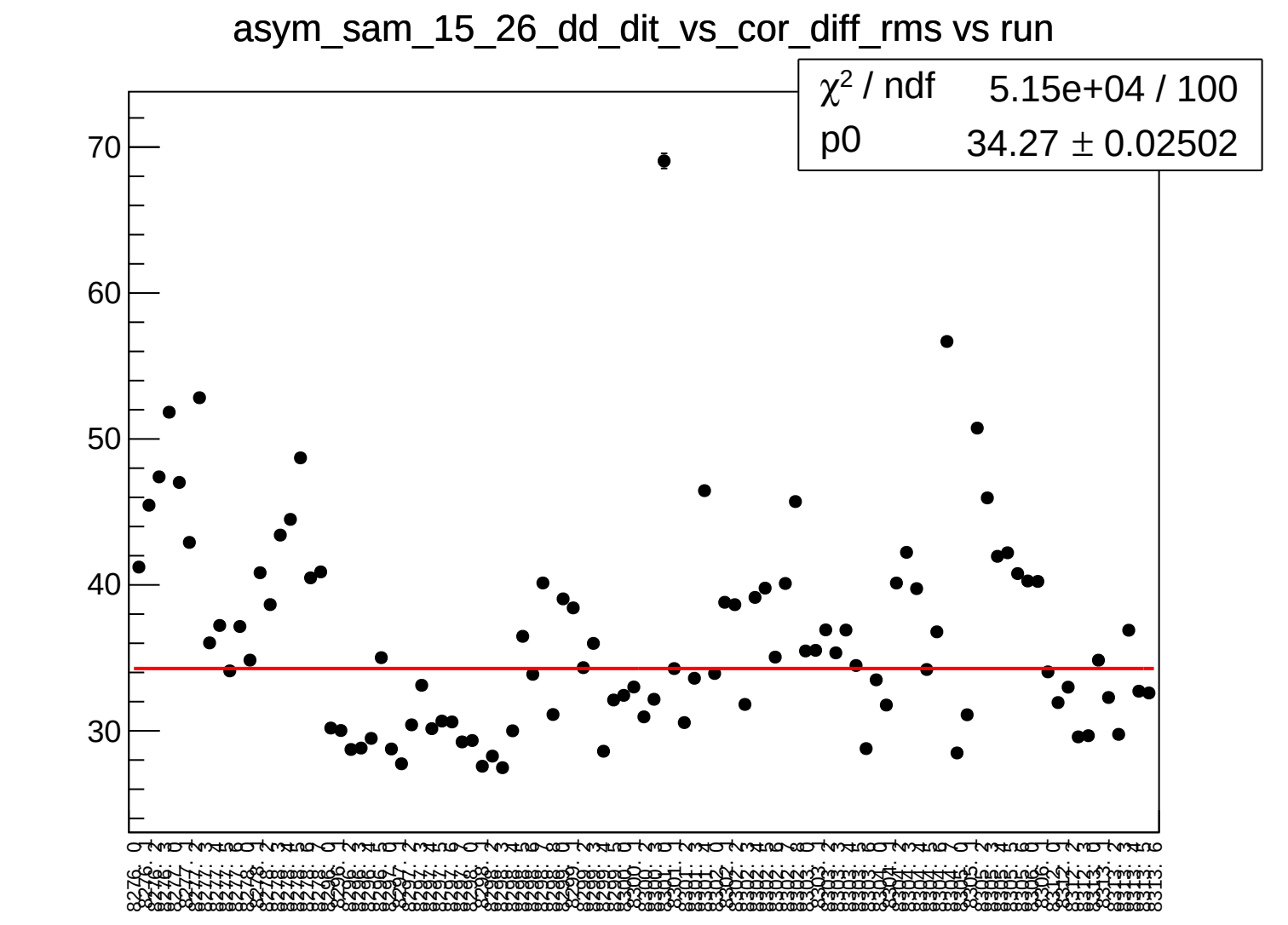

asym_sam_15_26_dd_rms vs run
χ² / ndf 1.165e+04 / 100
p0 796.5 ± 0.5755
1000
950
900
850
800
750
700

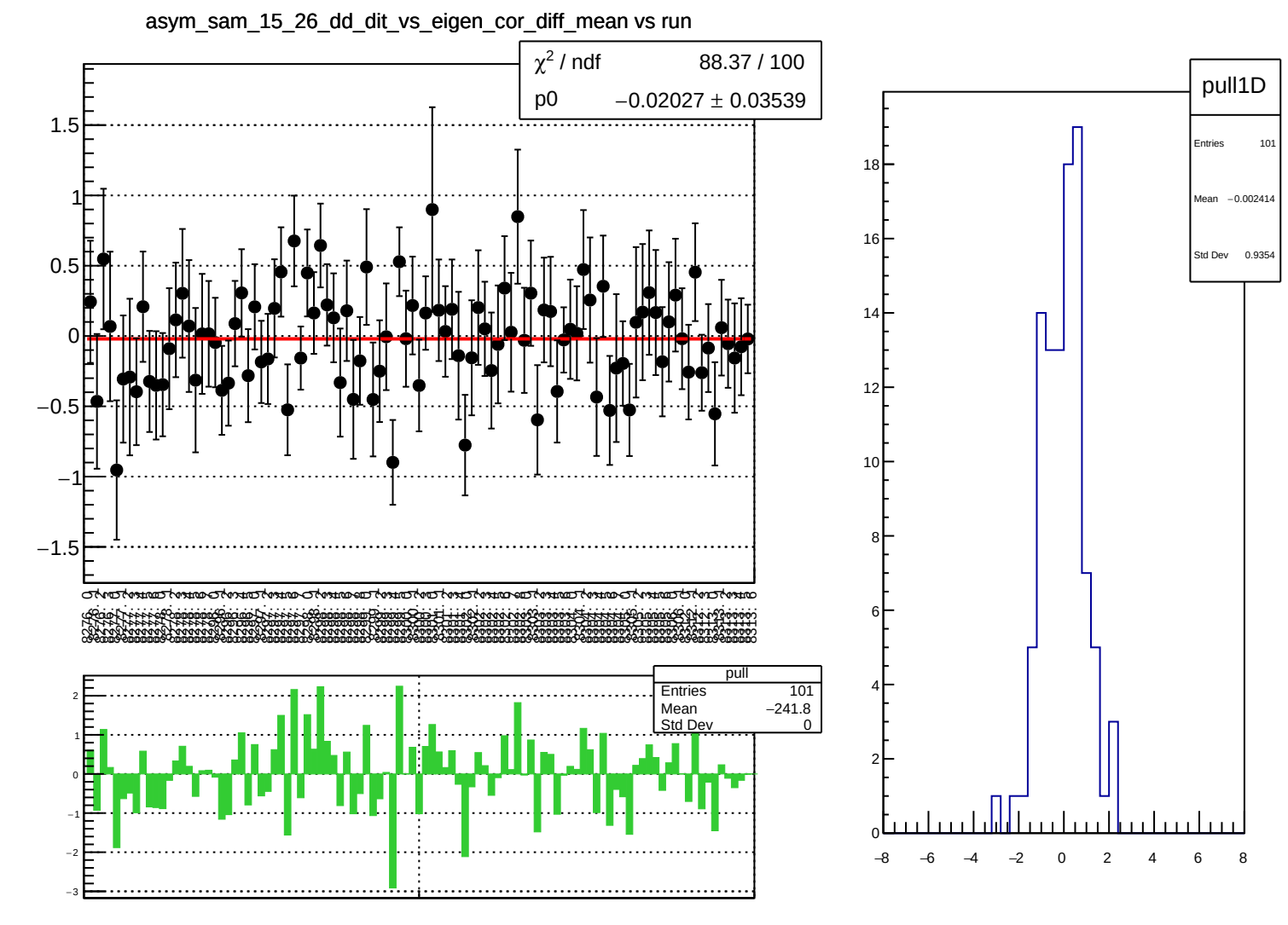

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 105.5 / 100
p0 2.248e−13 ± 7.728e−14
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 101
Mean 78.82
Std Dev 33.91
4
3
2
1
0
−1
−2

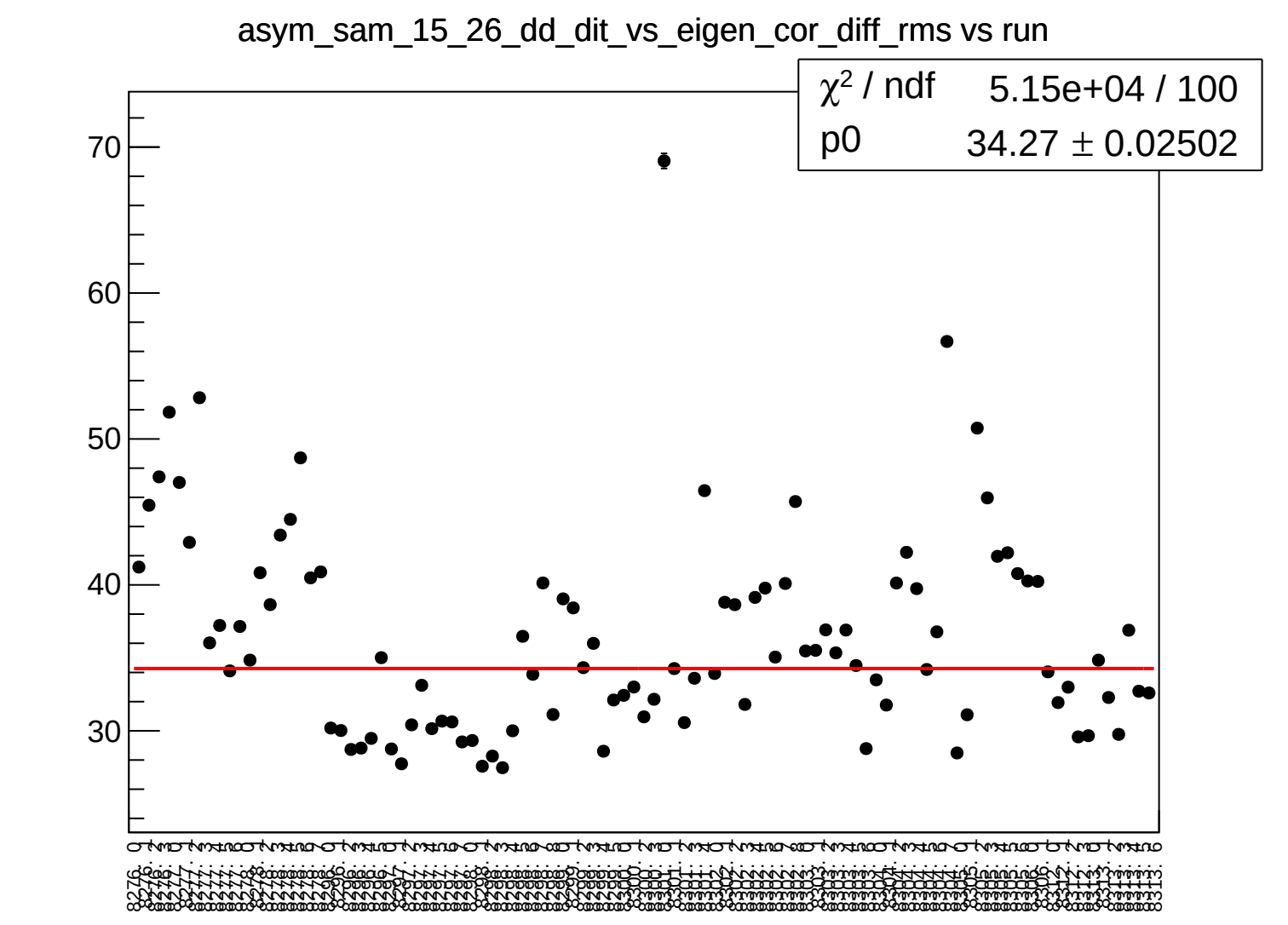

pull1D
Entries 101
Mean 0.1149
Std Dev 1.016
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

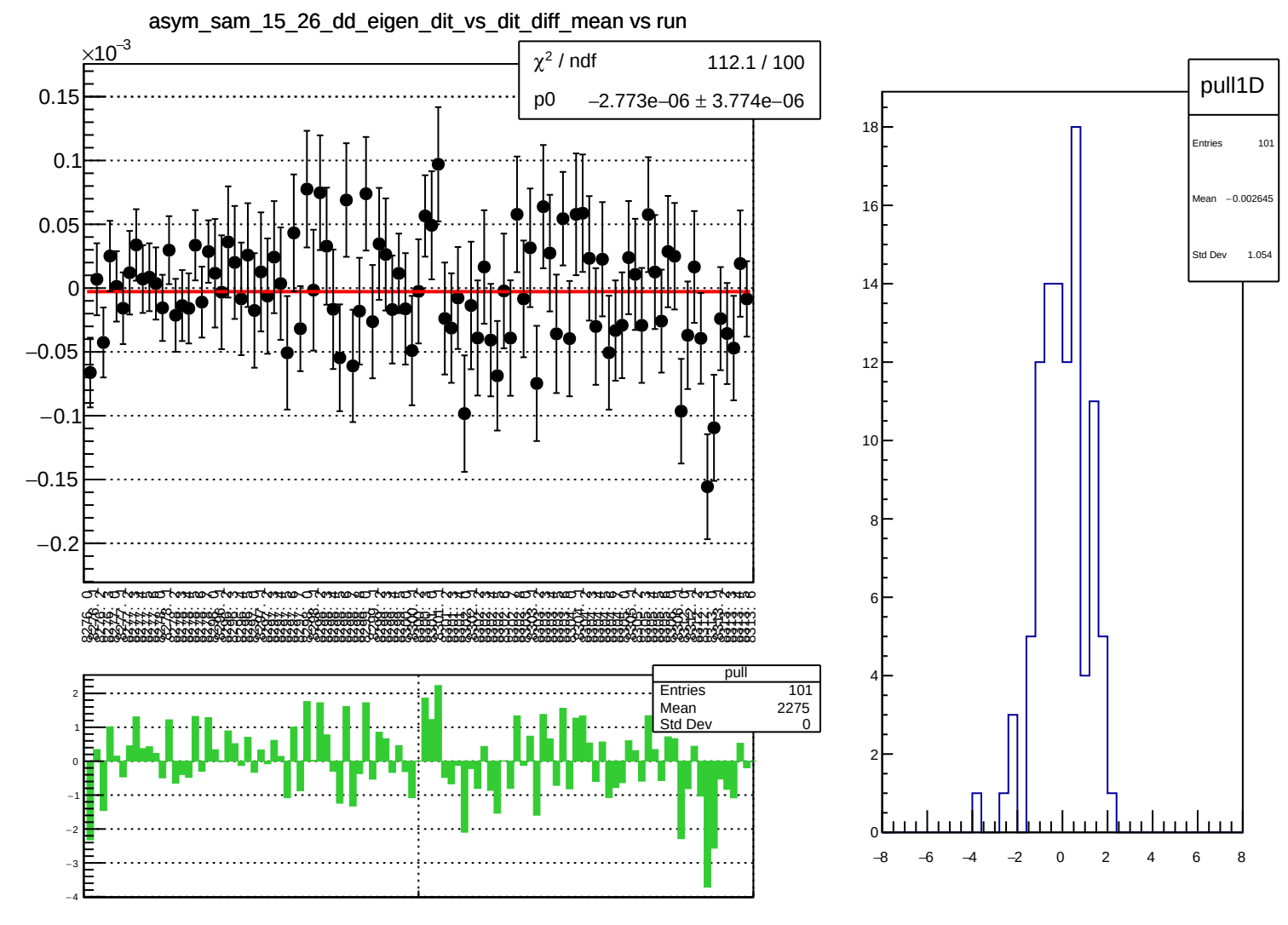

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.757e+05 / 100
p0 5.331e−11 ± 5.465e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

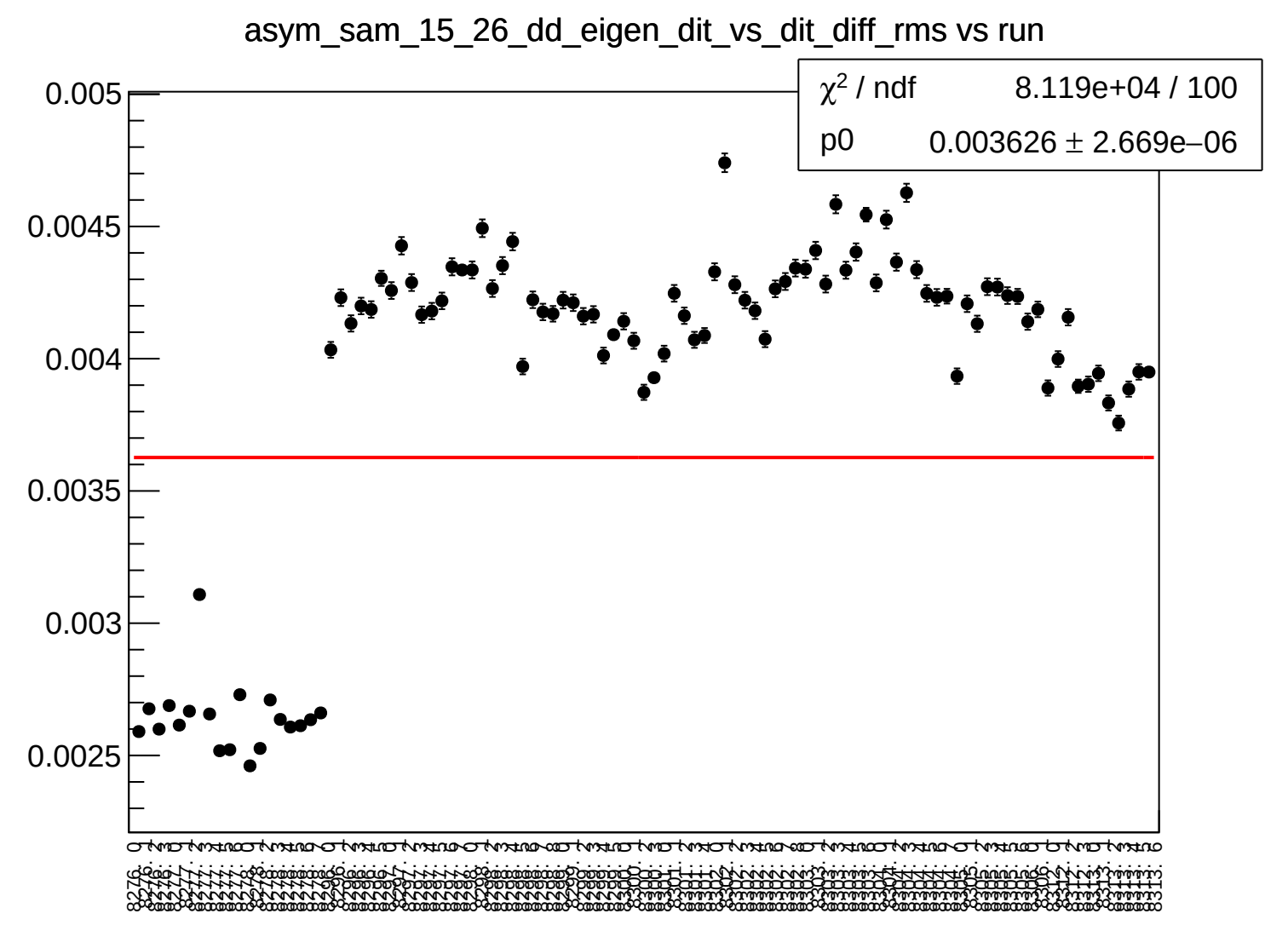

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 88.37 / 100
p0 −0.02027 ± 0.03539
pull
Entries 101
Mean −241.8
Std Dev 0
pull1D
Entries 101
Mean −0.002414
Std Dev 0.9354

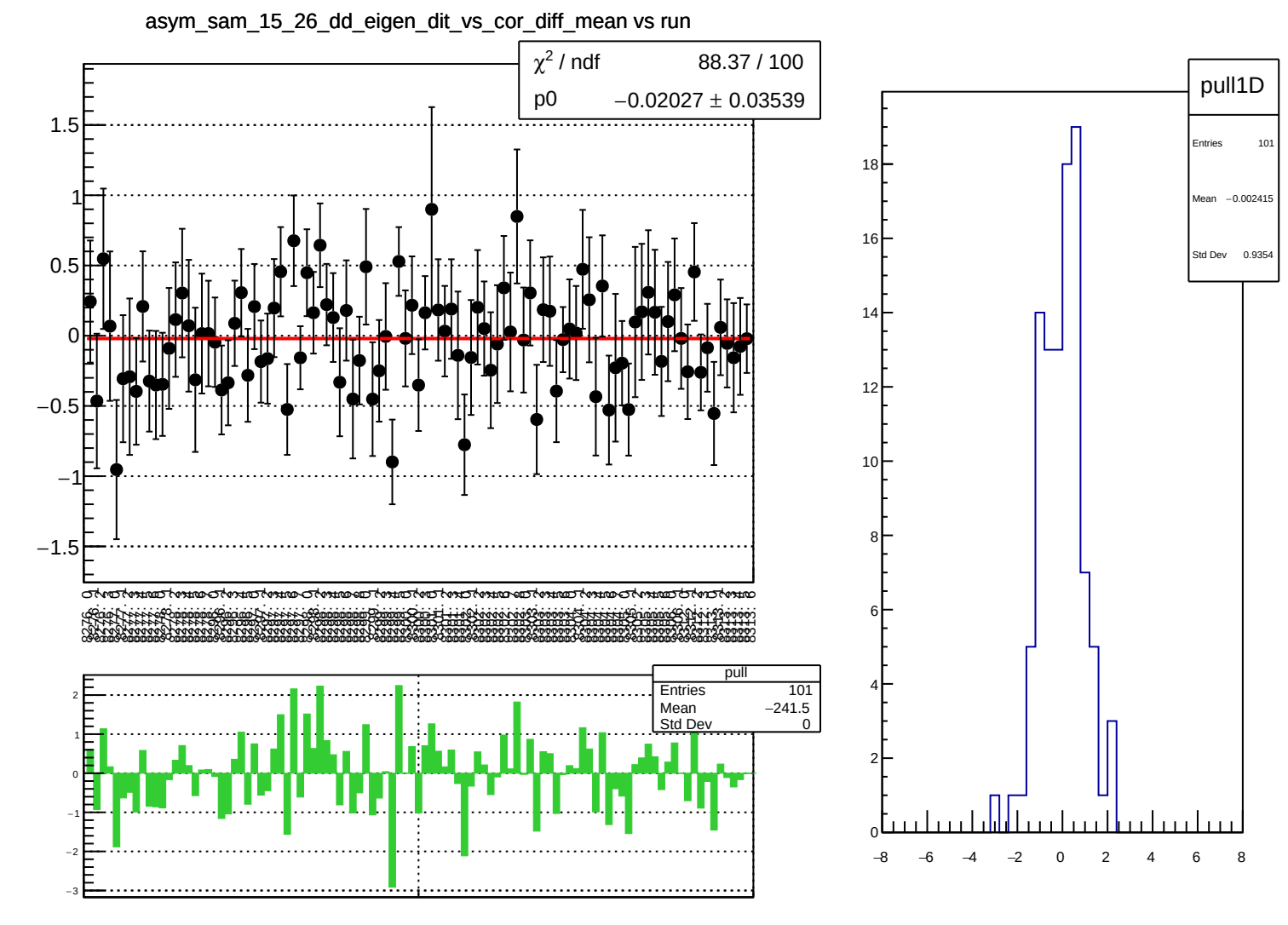

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.15e+04 / 100
p0 34.27 ± 0.02502
70
60
50
40
30

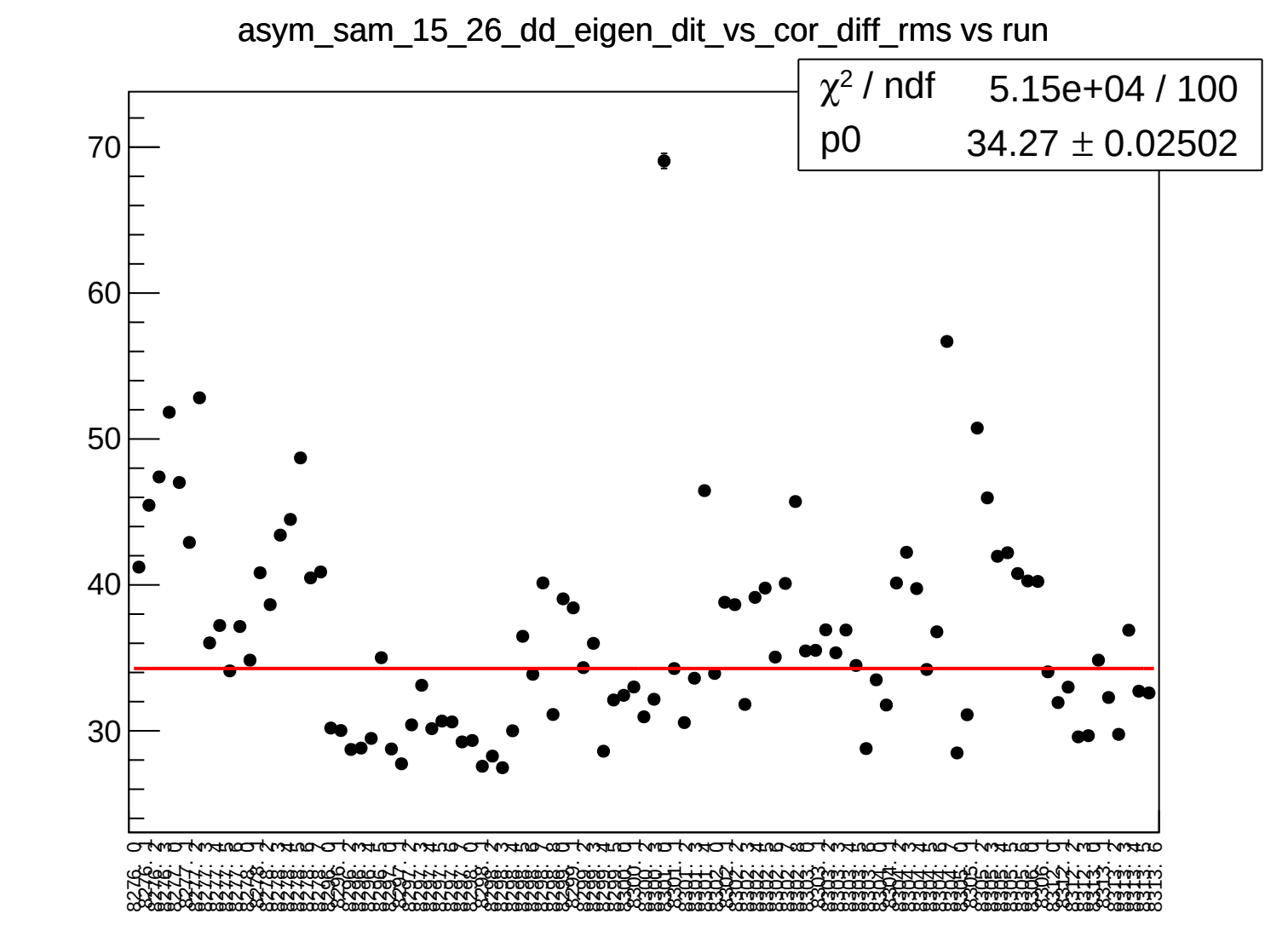

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.37 / 100
p0 −0.02027 ± 0.03539
pull
Entries 101
Mean −241.8
Std Dev 0
pull1D
Entries 101
Mean −0.002414
Std Dev 0.9354

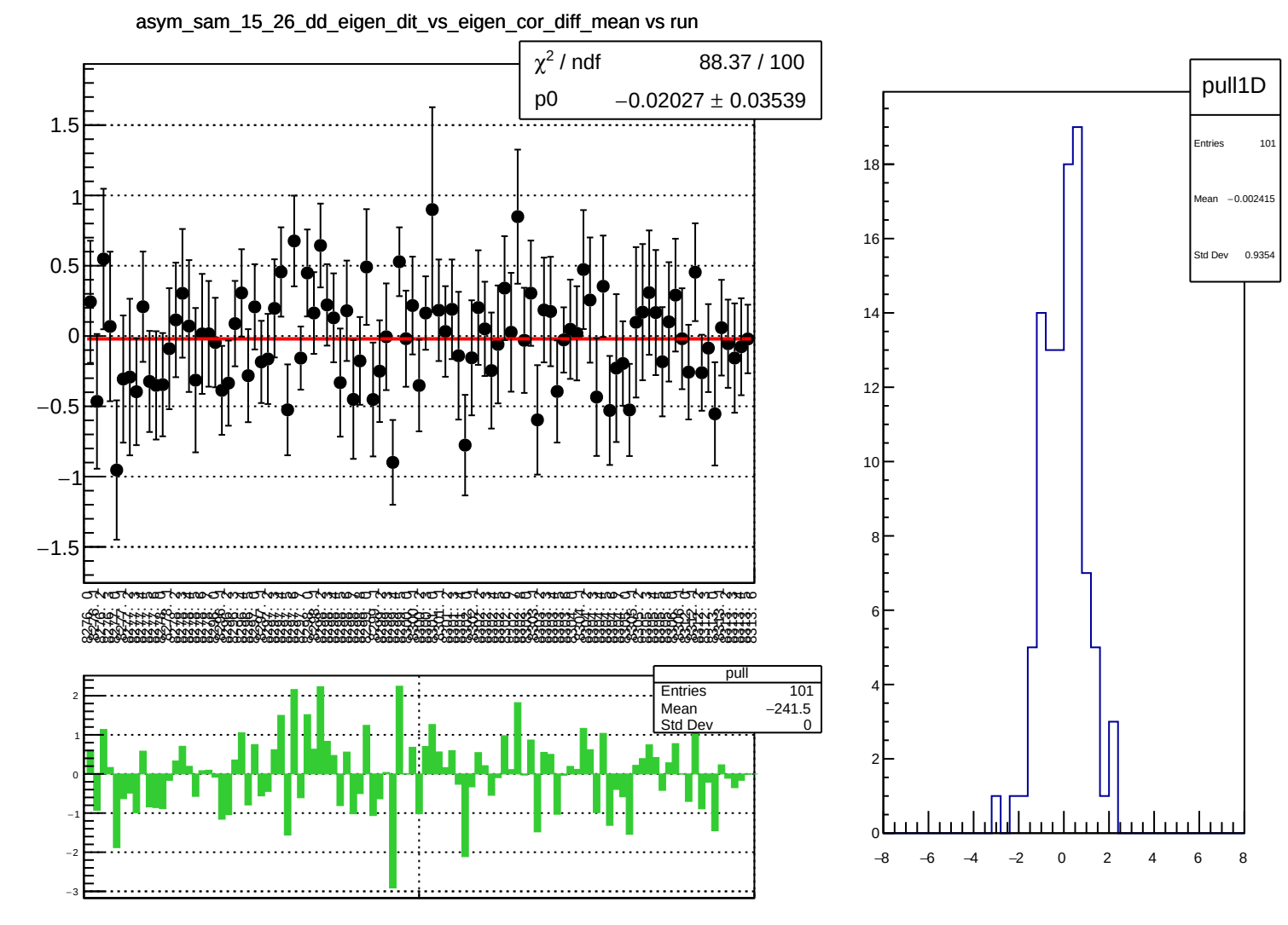

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.15e+04 / 100
p0 34.27 ± 0.02502
70
60
50
40
30

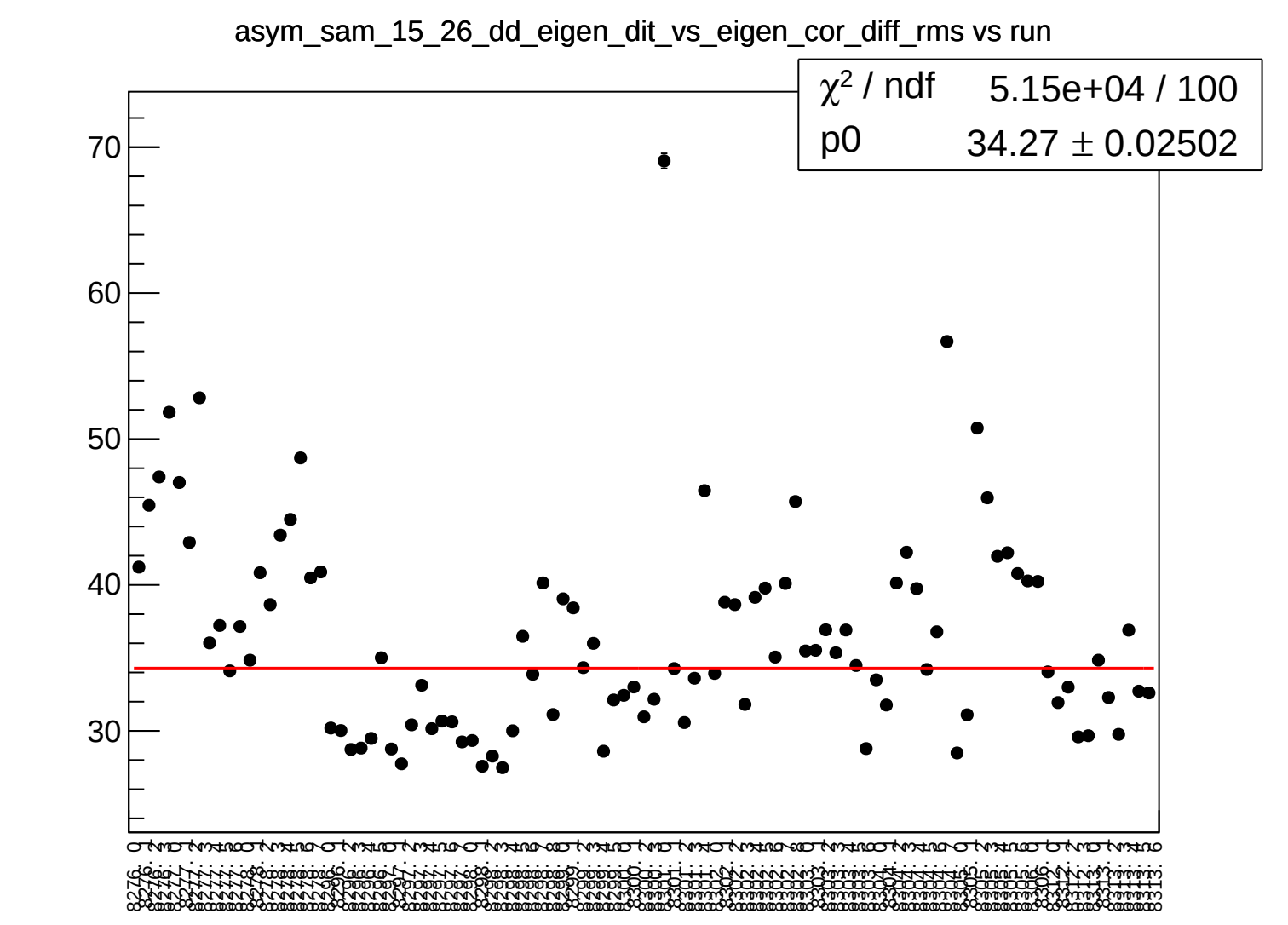

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 112.1 / 100
p0 −2.773e−06 ± 3.774e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 101
Mean 2275
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 101
Mean −0.002645
Std Dev 1.054
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

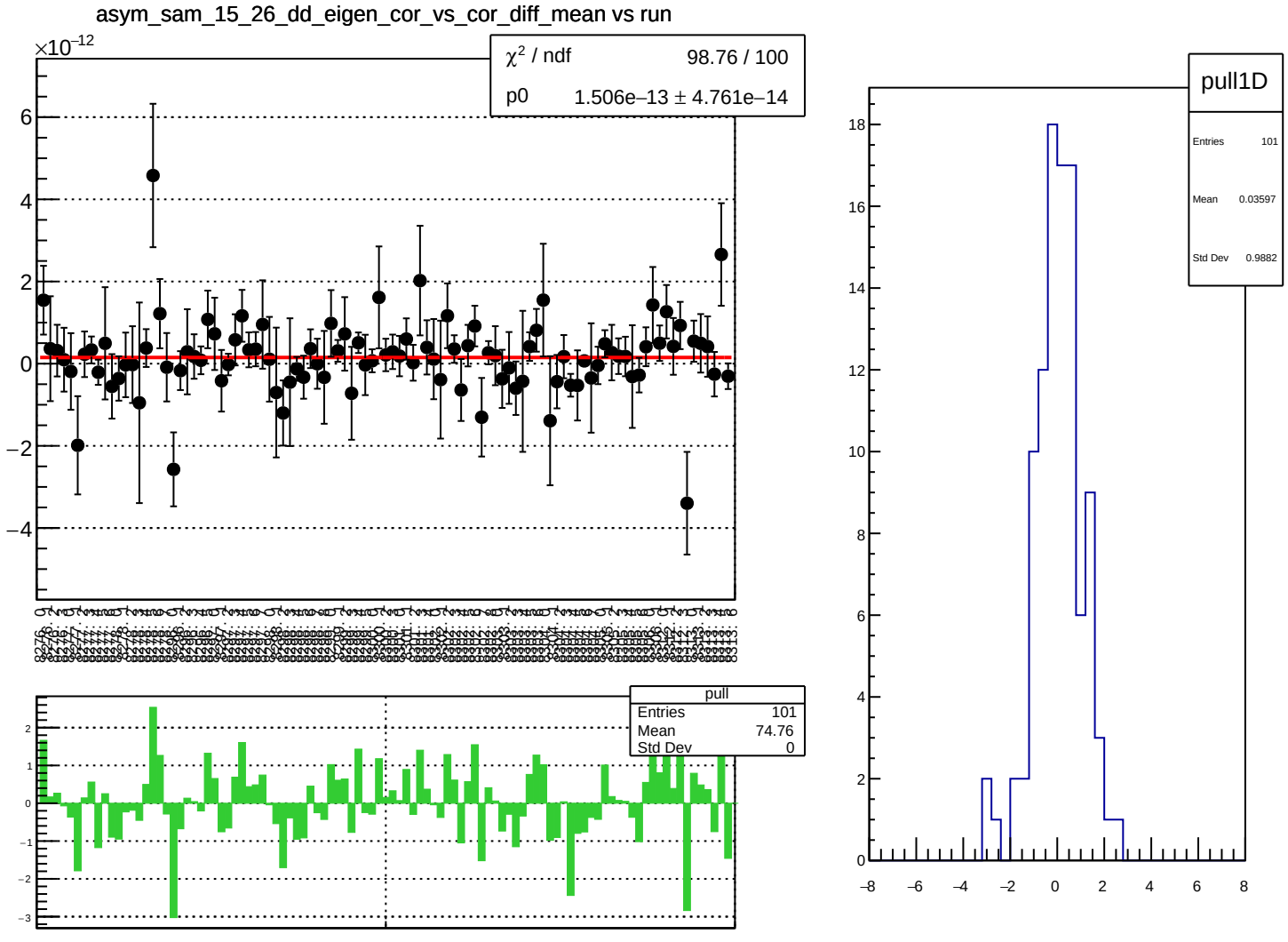

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.119e+04 / 100
p0 0.003626 ± 2.669e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025

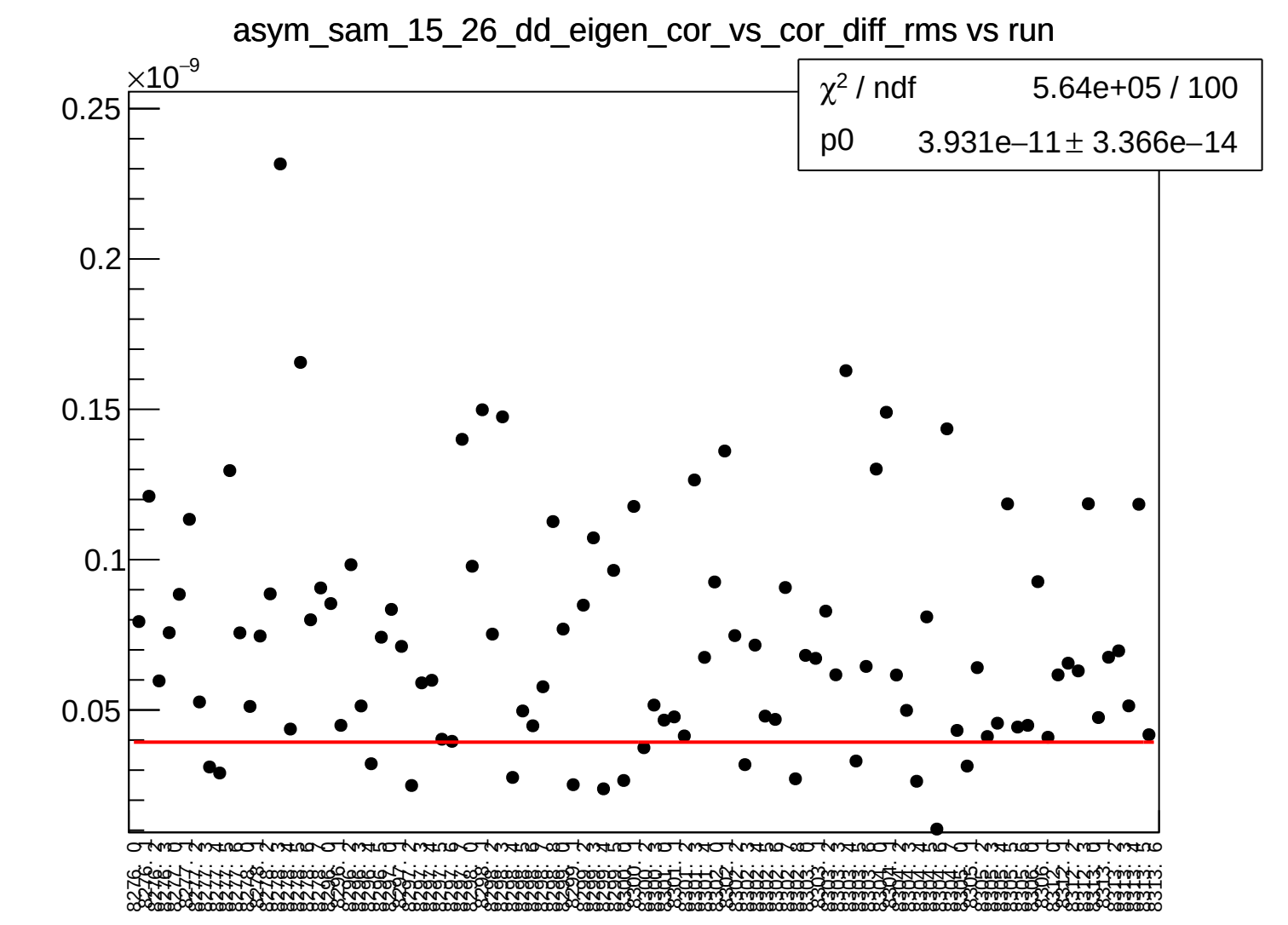

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.37 / 100
p0 −0.02027 ± 0.03539
pull
Entries 101
Mean −241.5
Std Dev 0
pull1D
Entries 101
Mean −0.002415
Std Dev 0.9354

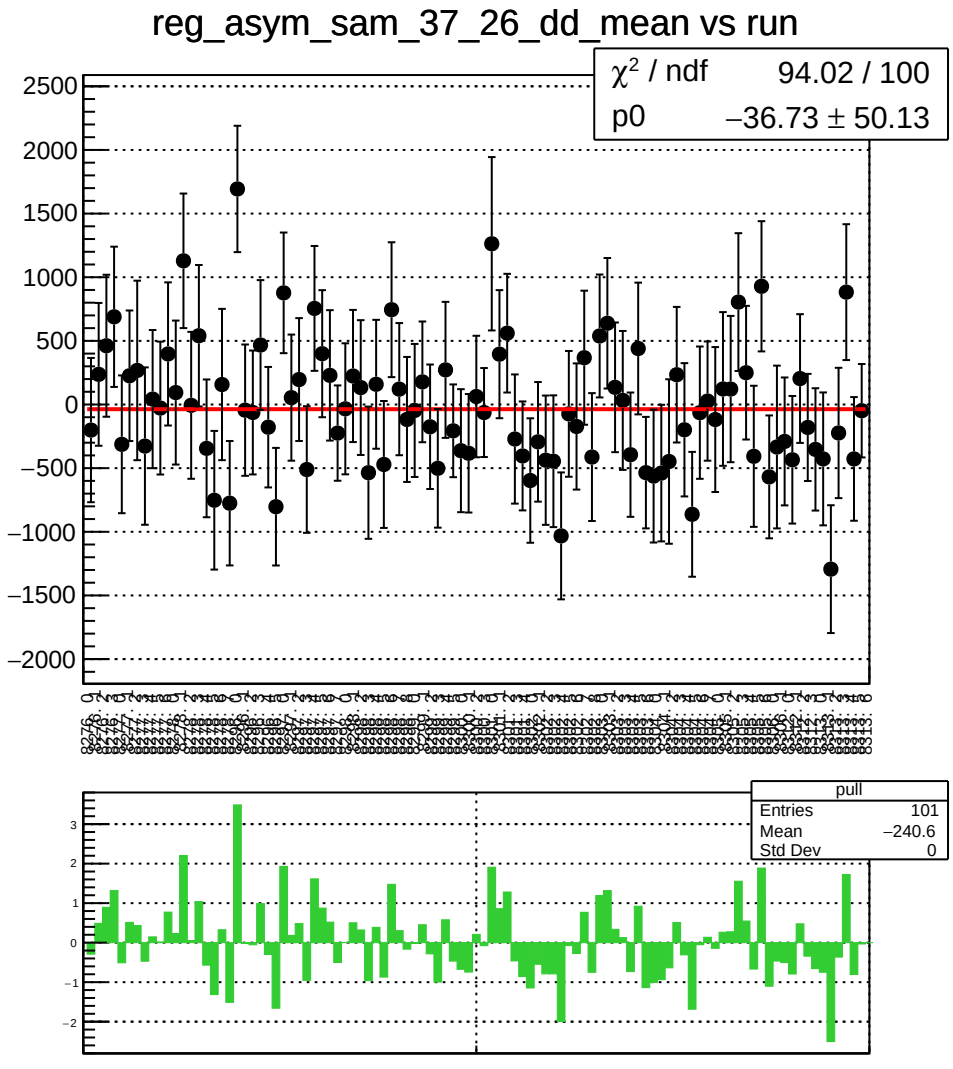

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.15e+04 / 100
p0 34.27 ± 0.02502
70
60
50
40
30

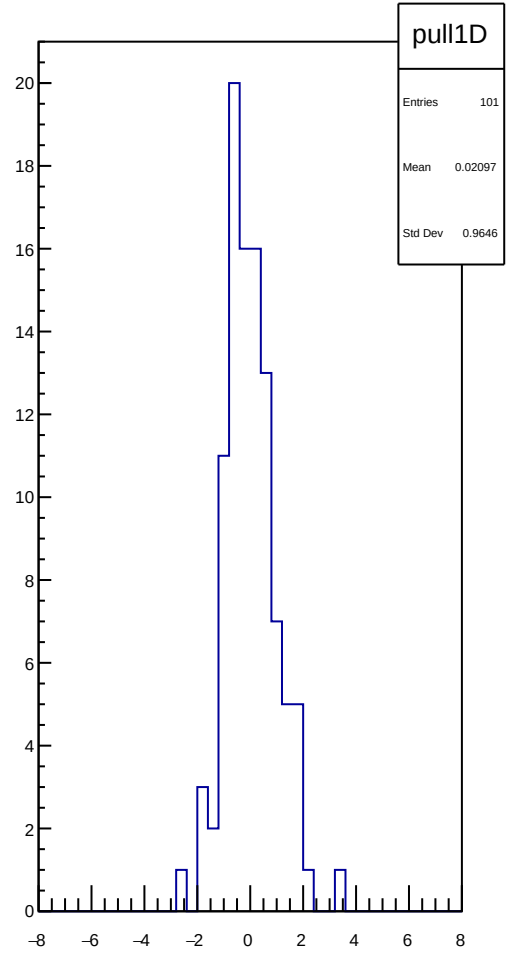

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.37 / 100
p0 −0.02027 ± 0.03539
pull
Entries 101
Mean −241.5
Std Dev 0
pull1D
Entries 101
Mean −0.002415
Std Dev 0.9354

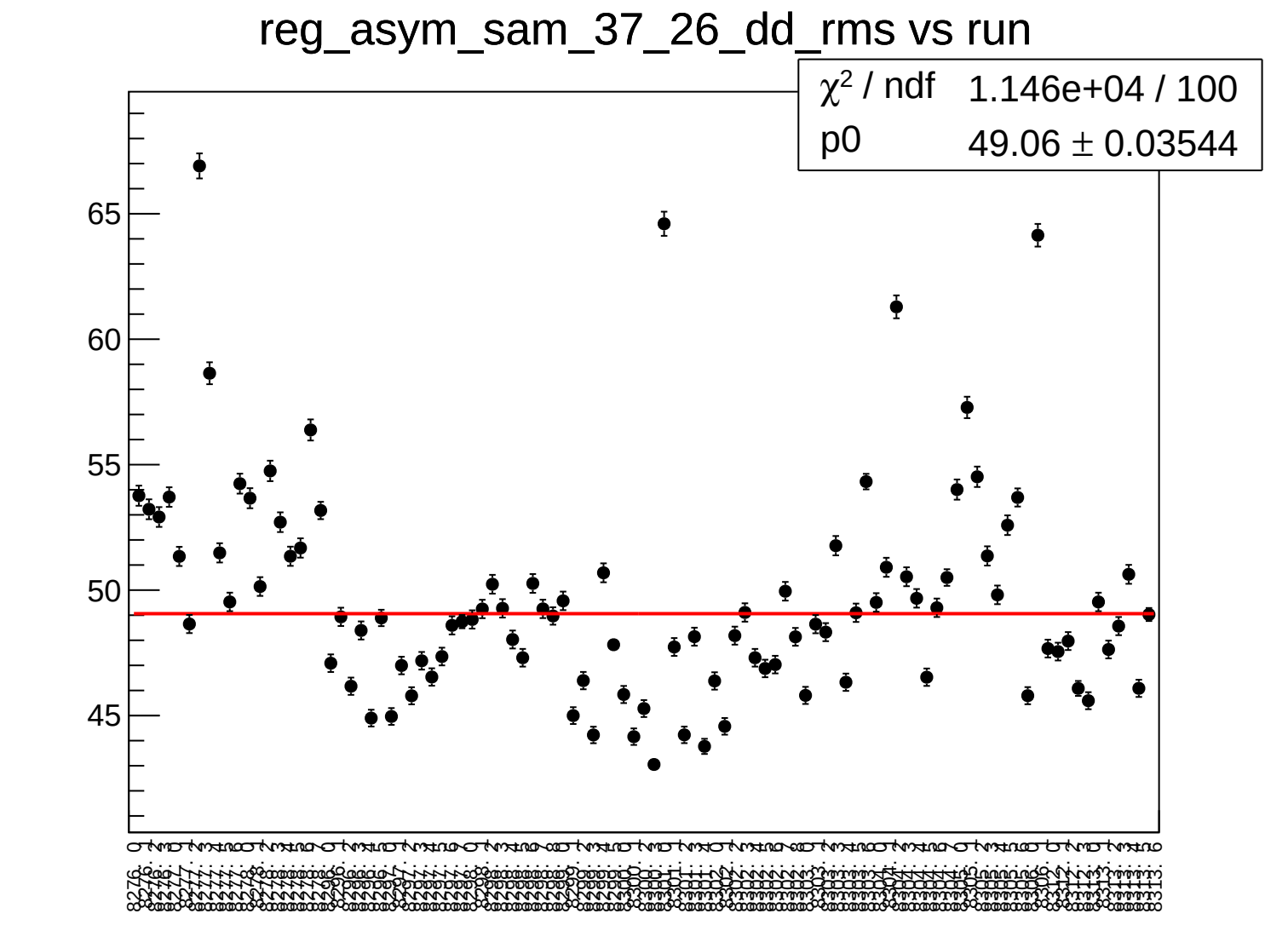

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.15e+04 / 100
p0 34.27 ± 0.02502
70
60
50
40
30

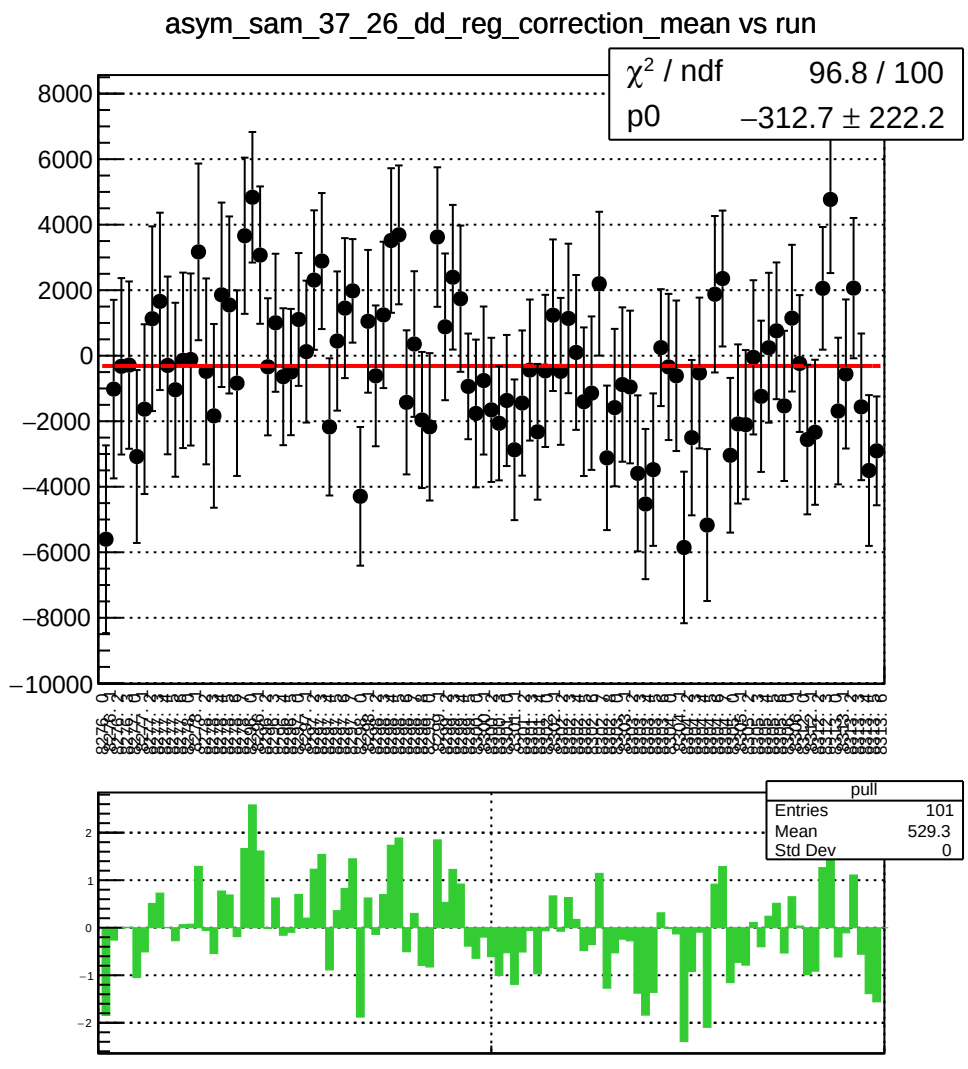

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 98.76 / 100
p0 1.506e−13 ± 4.761e−14
pull
Entries 101
Mean 74.76
Std Dev 0
pull1D
Entries 101
Mean 0.03597
Std Dev 0.9882

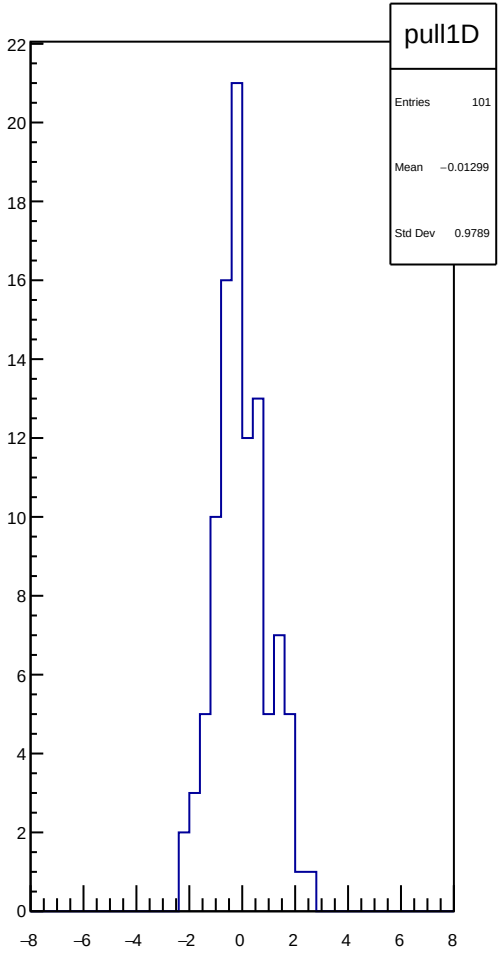

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.25
0.2
0.15
0.1
0.05
χ² / ndf 5.64e+05 / 100
p0 3.931e−11 ± 3.366e−14

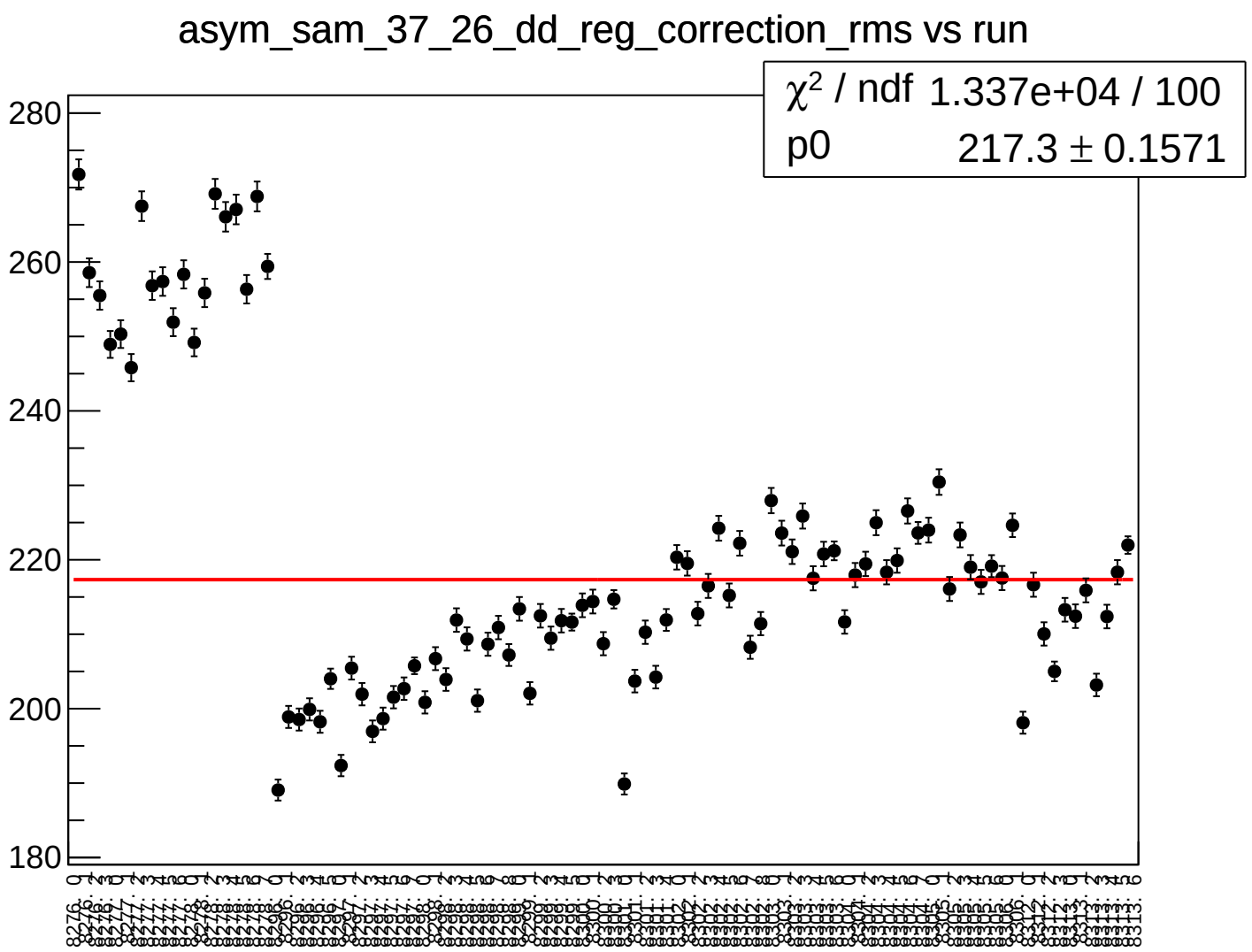

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 94.02 / 100
p0 −36.73 ± 50.13
pull
Entries 101
Mean −240.6
Std Dev 0

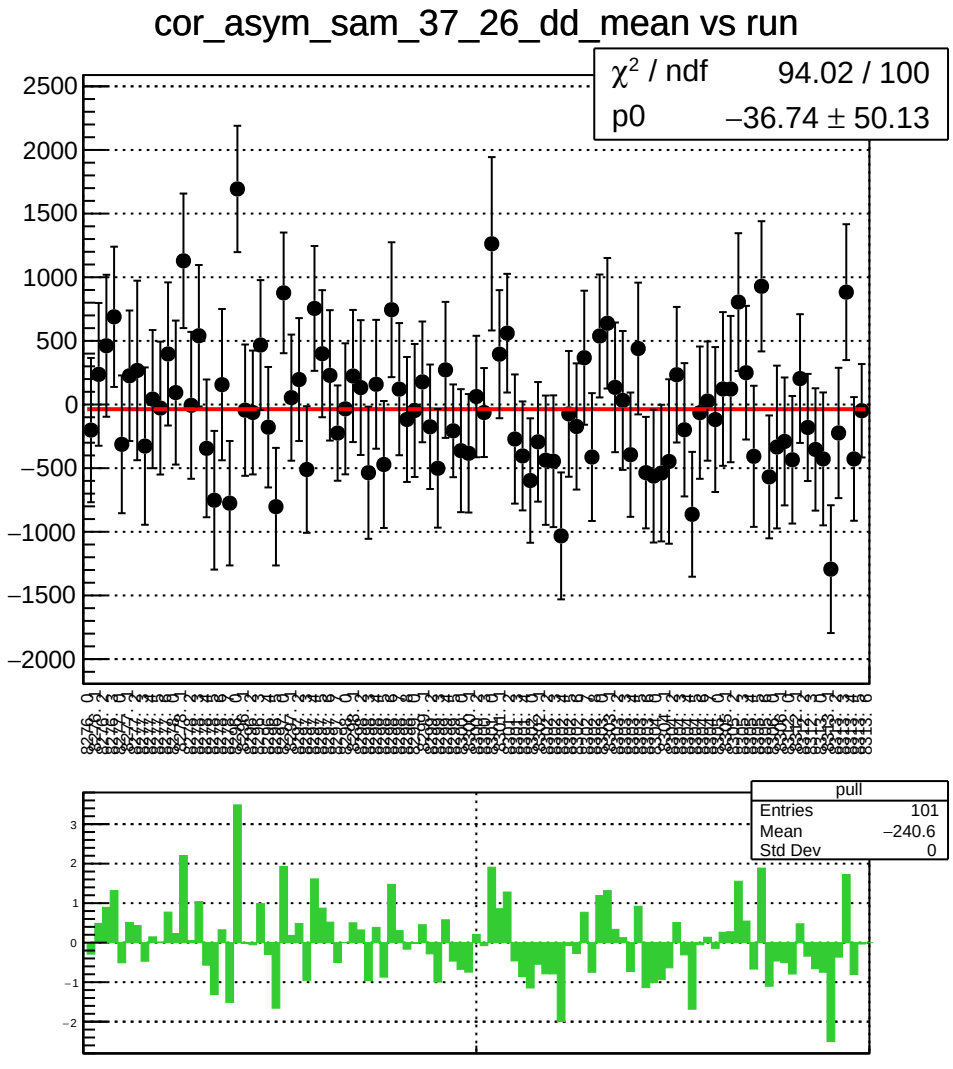

pull1D
Entries 101
Mean 0.02097
Std Dev 0.9646

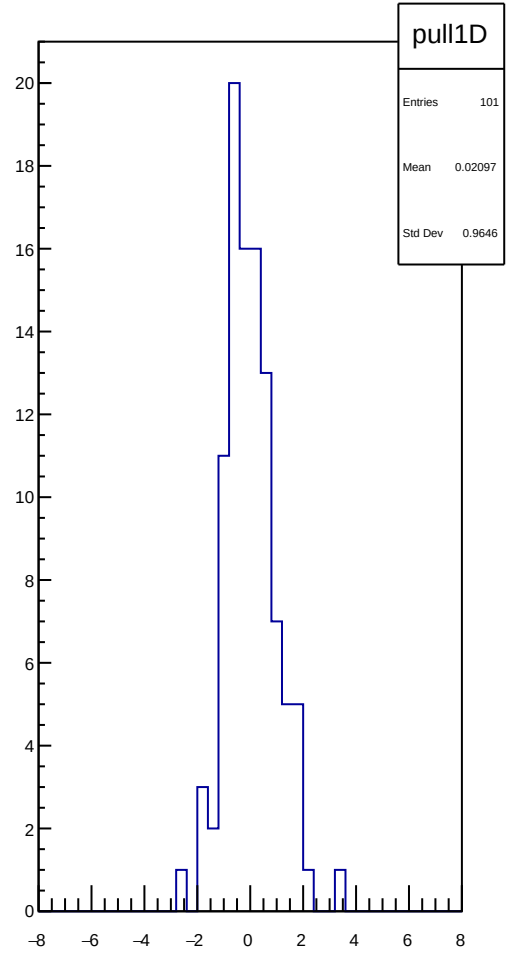

reg_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 1.146e+04 / 100
p0 49.06 ± 0.03544
65
60
55
50
45

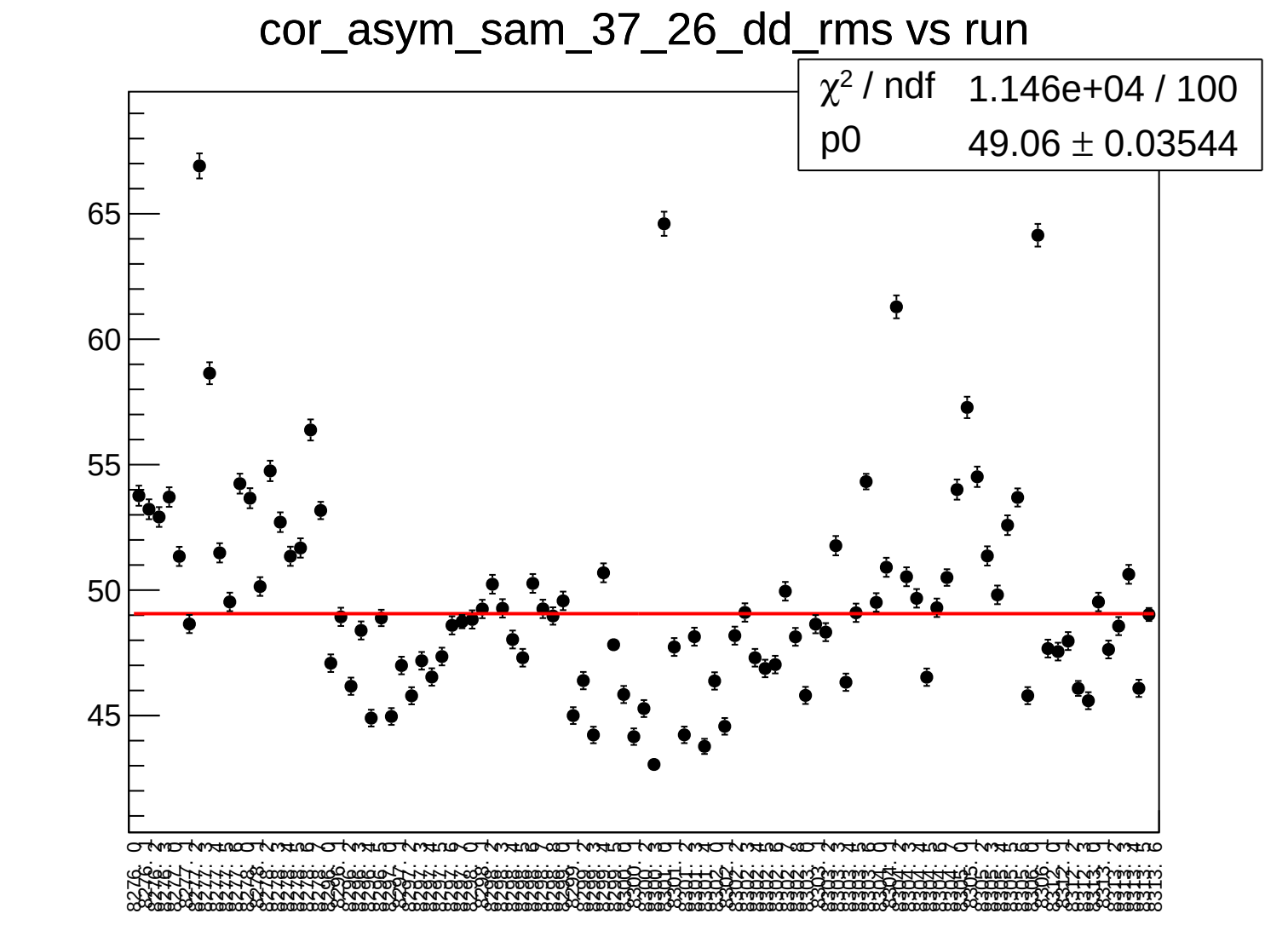

asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 96.8 / 100
p0 −312.7 ± 222.2
pull
Entries 101
Mean 529.3
Std Dev 0

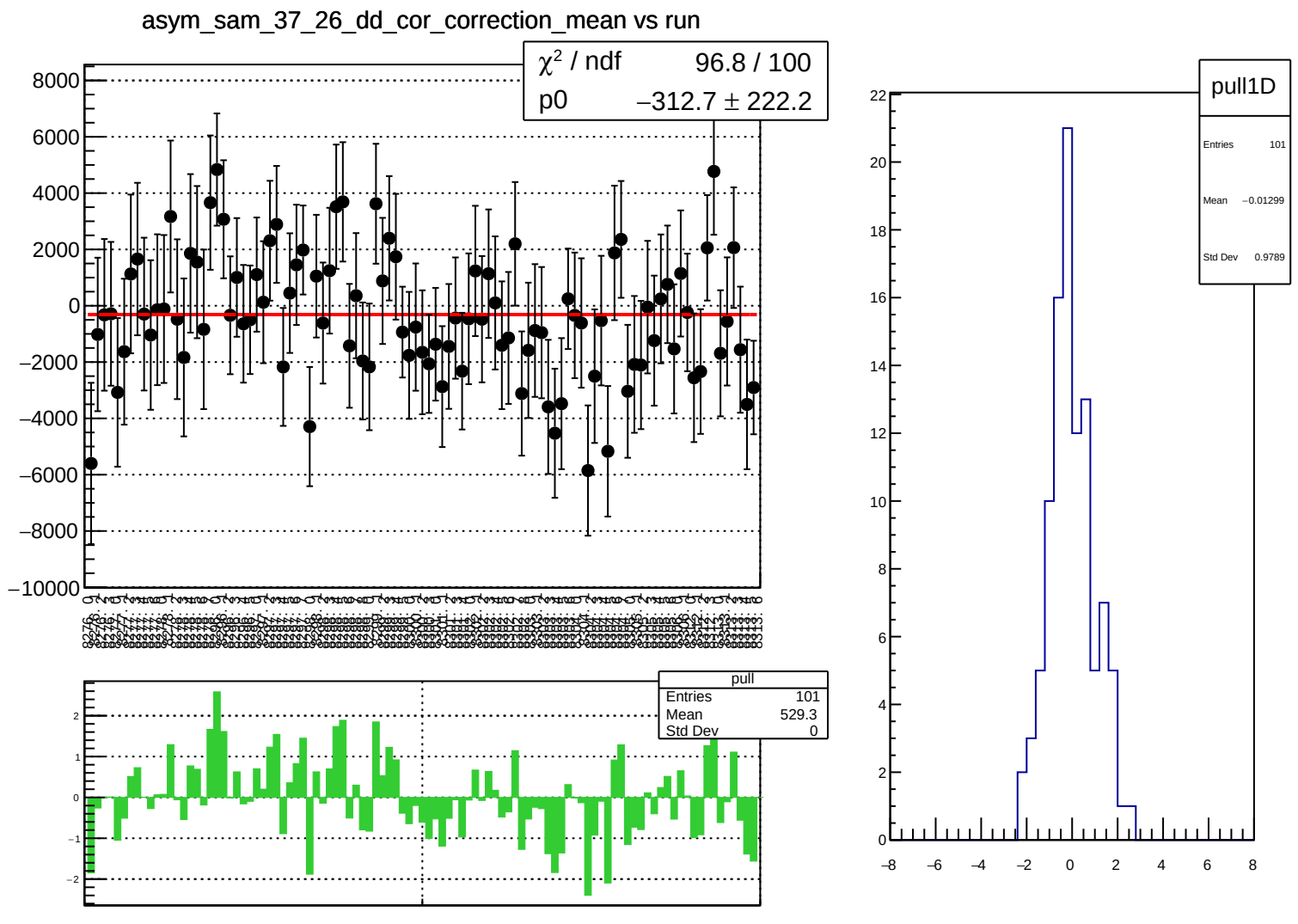

pull1D
Entries 101
Mean −0.01299
Std Dev 0.9789

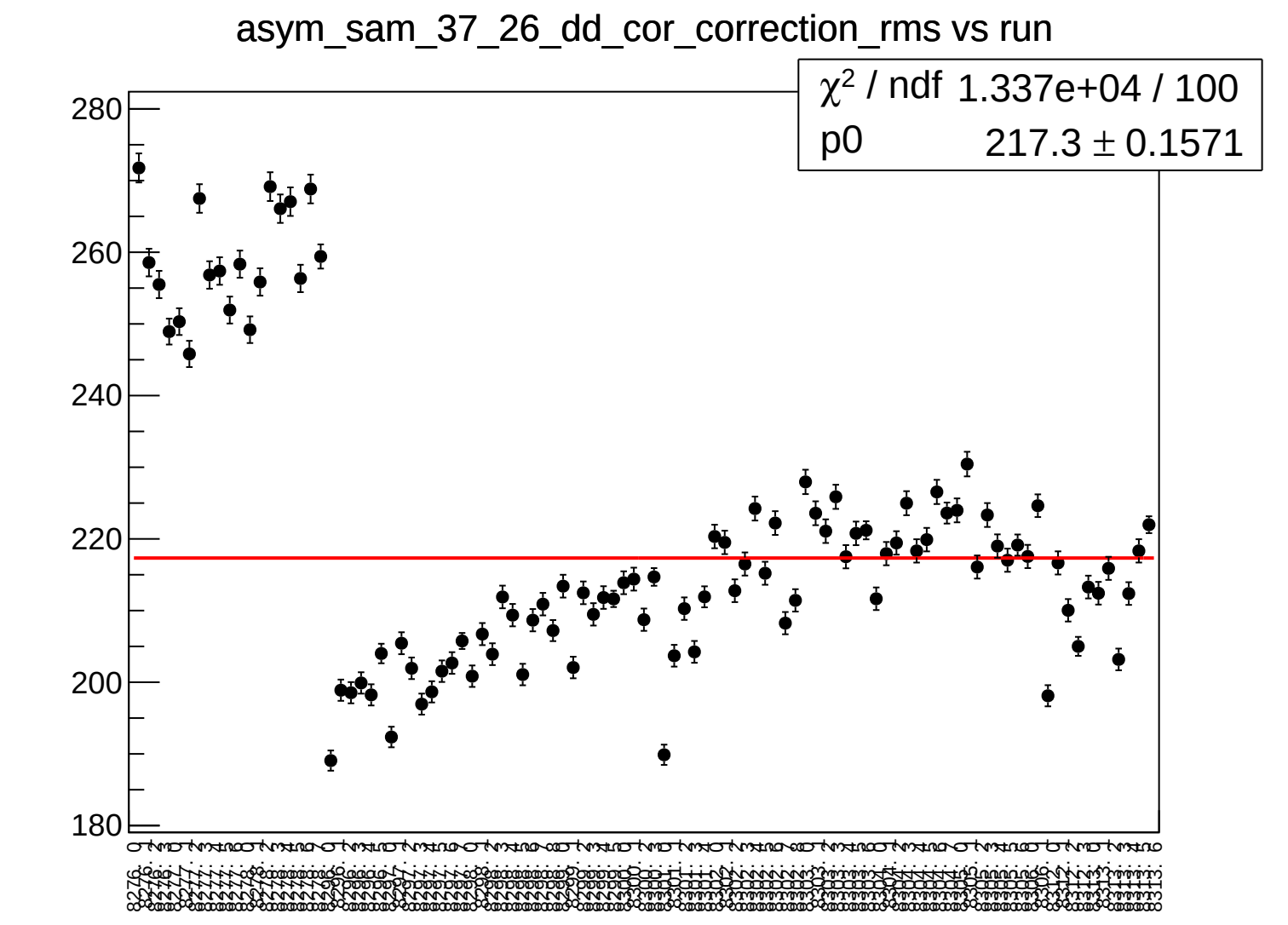

asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 1.337e+04 / 100
p0 217.3 ± 0.1571
280
260
240
220
200
180

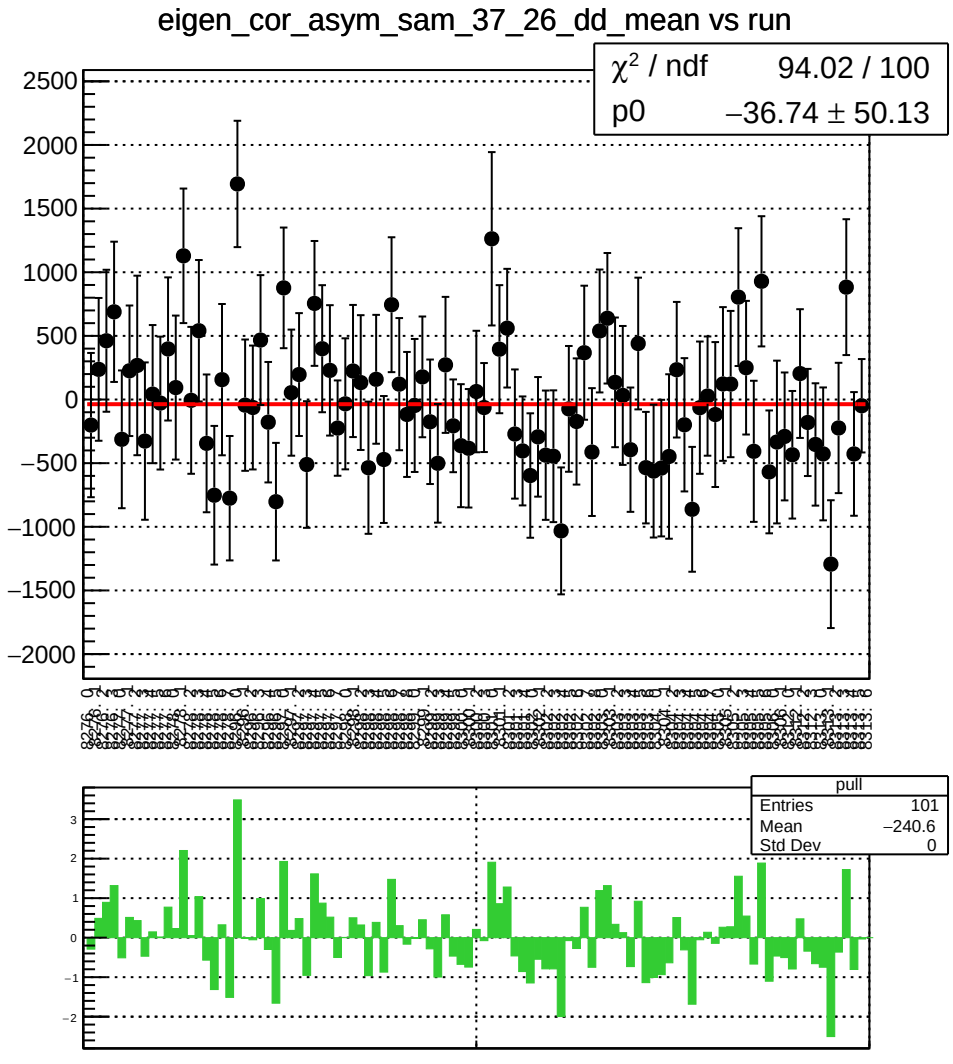

cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 94.02 / 100
p0 −36.74 ± 50.13
pull
Entries 101
Mean −240.6
Std Dev 0

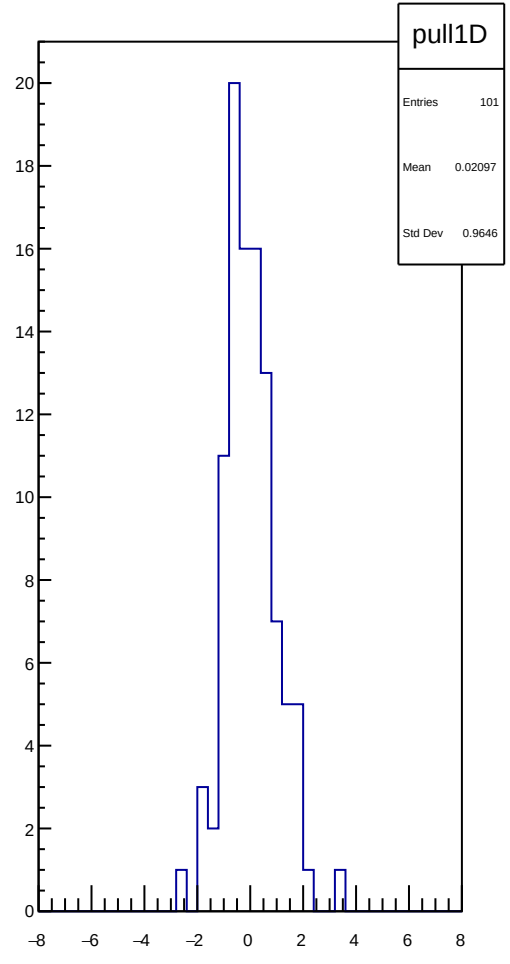

pull1D
Entries 101
Mean 0.02097
Std Dev 0.9646

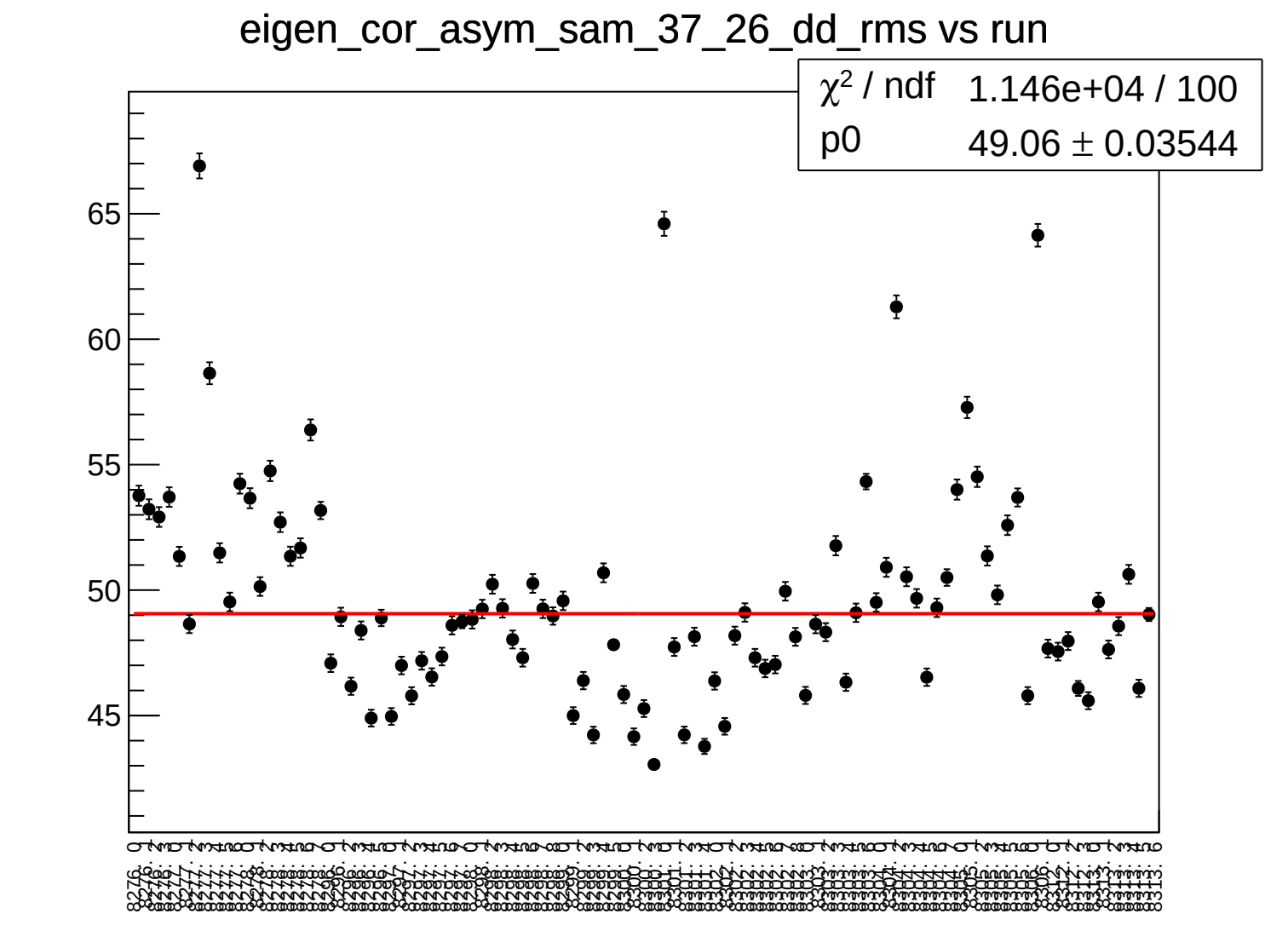

cor_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 1.146e+04 / 100
p0 49.06 ± 0.03544
65
60
55
50
45

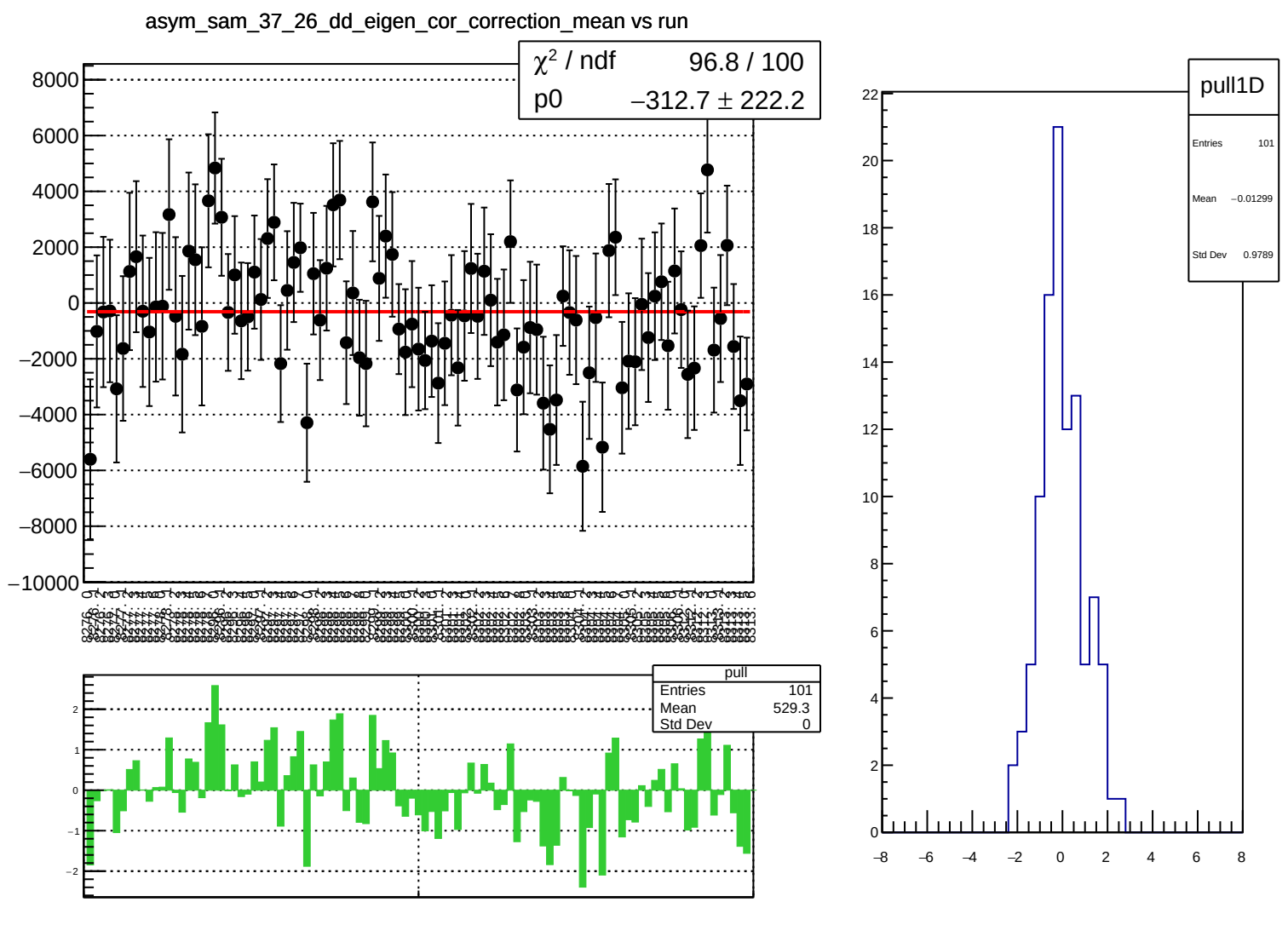

asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 96.8 / 100
p0 −312.7 ± 222.2
pull
Entries 101
Mean 529.3
Std Dev 0
pull1D
Entries 101
Mean −0.01299
Std Dev 0.9789

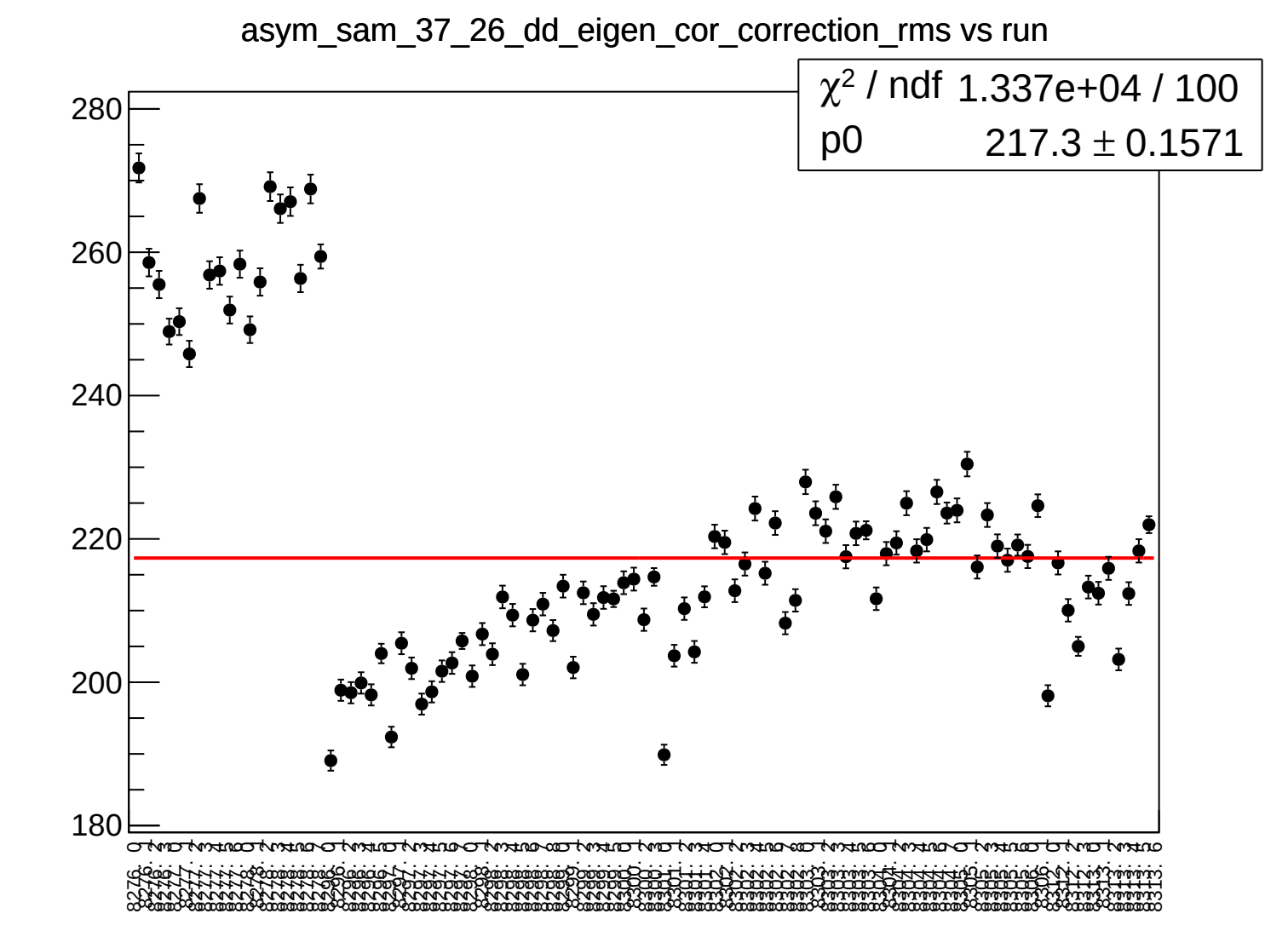

asym_sam_37_26_dd_cor_correction_rms vs run
χ^2 / ndf 1.337e+04 / 100
p0 217.3 ± 0.1571
280
260
240
220
200
180

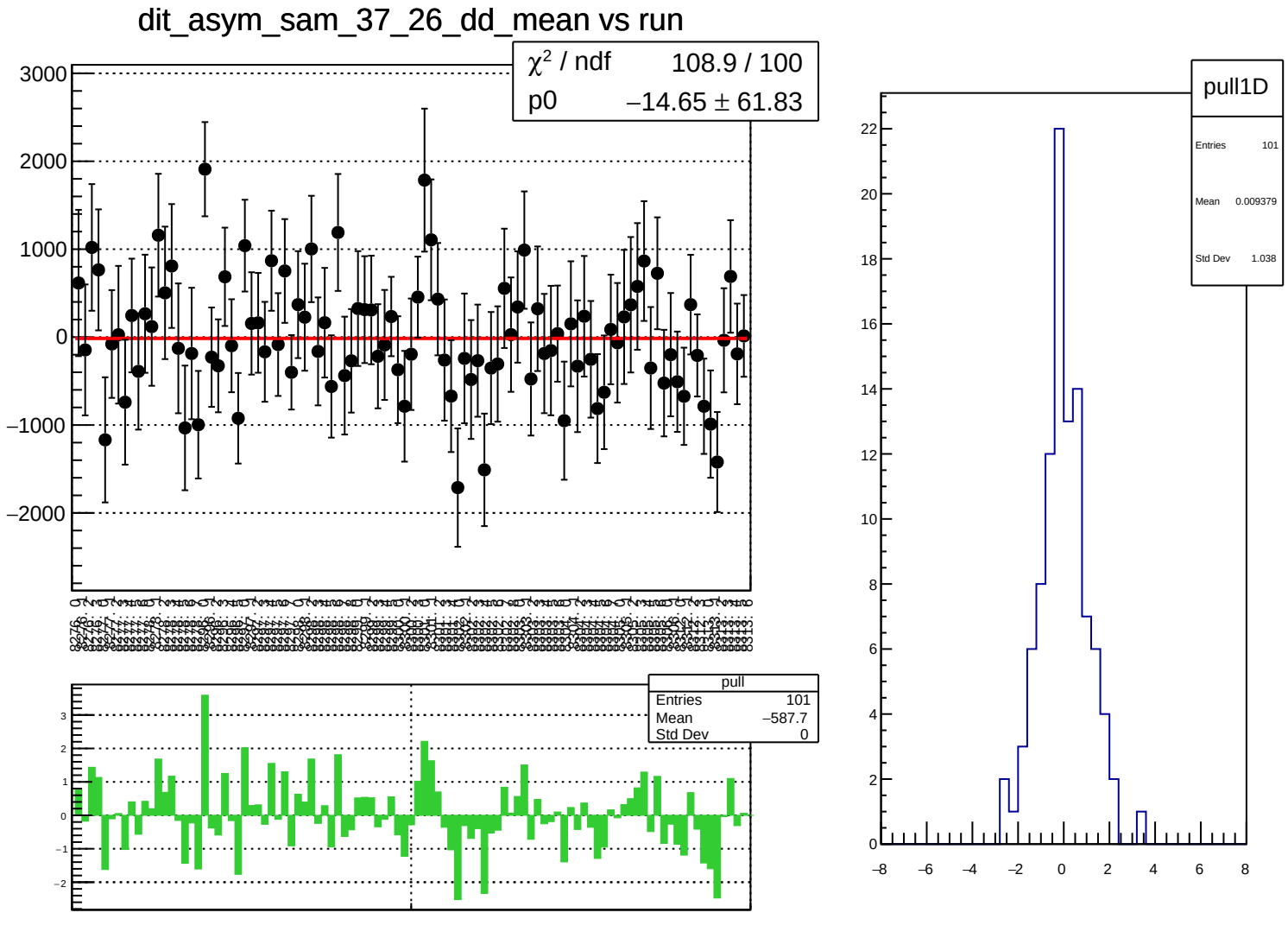

eigen_cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 94.02 / 100
p0 −36.74 ± 50.13
pull
Entries 101
Mean −240.6
Std Dev 0

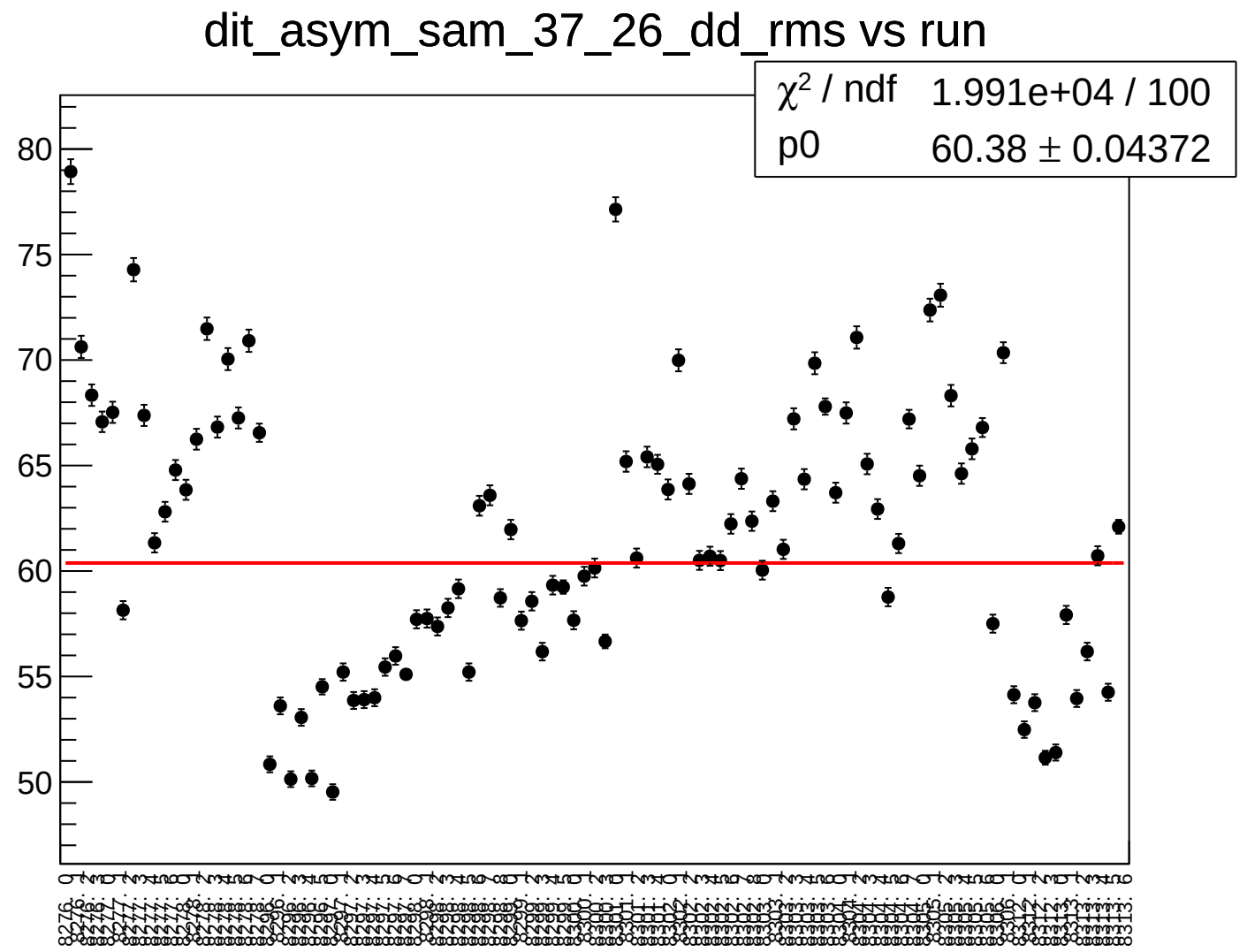

pull1D
Entries 101
Mean 0.02097
Std Dev 0.9646

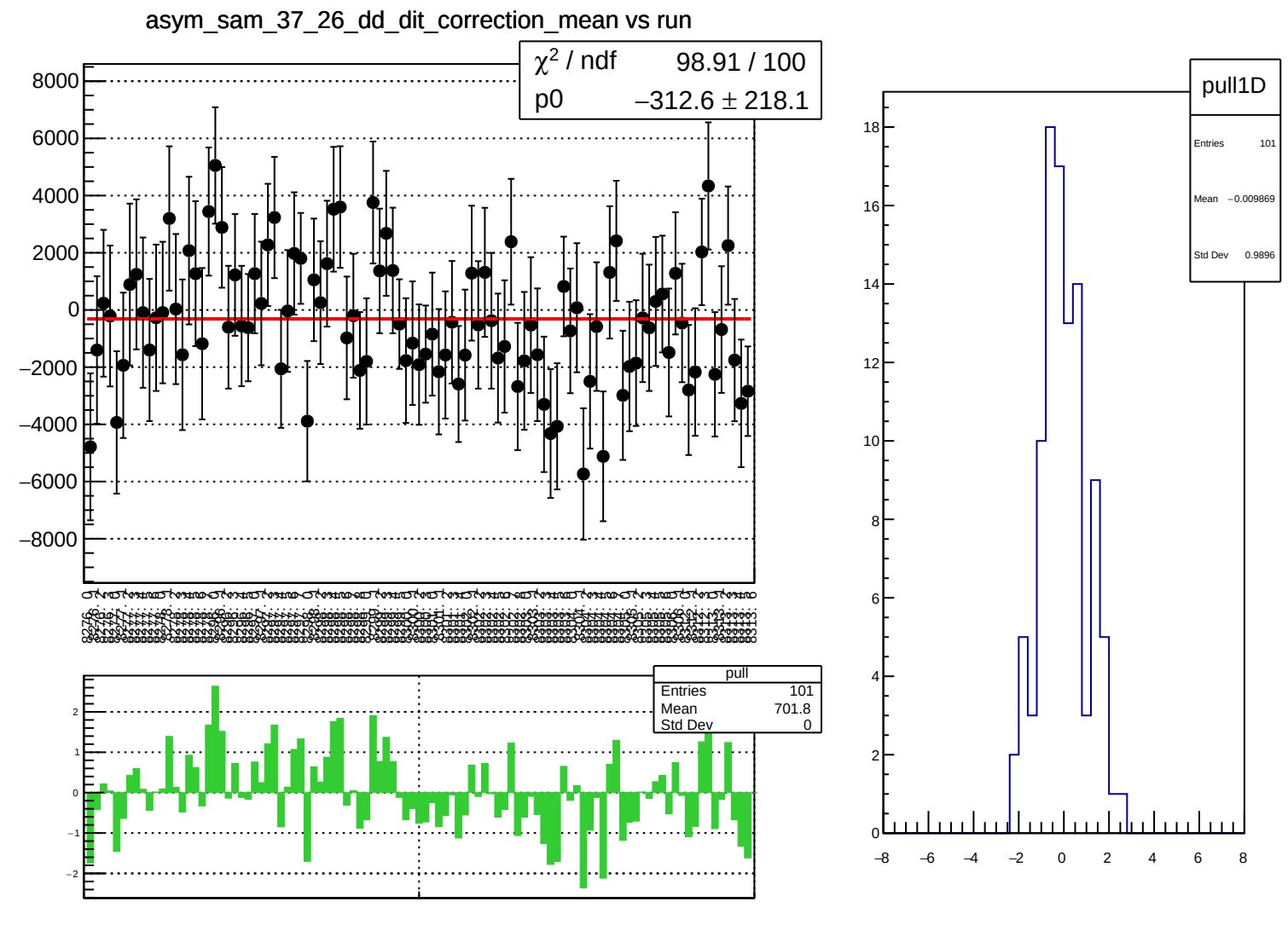

eigen_cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 1.146e+04 / 100
p0 49.06 ± 0.03544
65
60
55
50
45

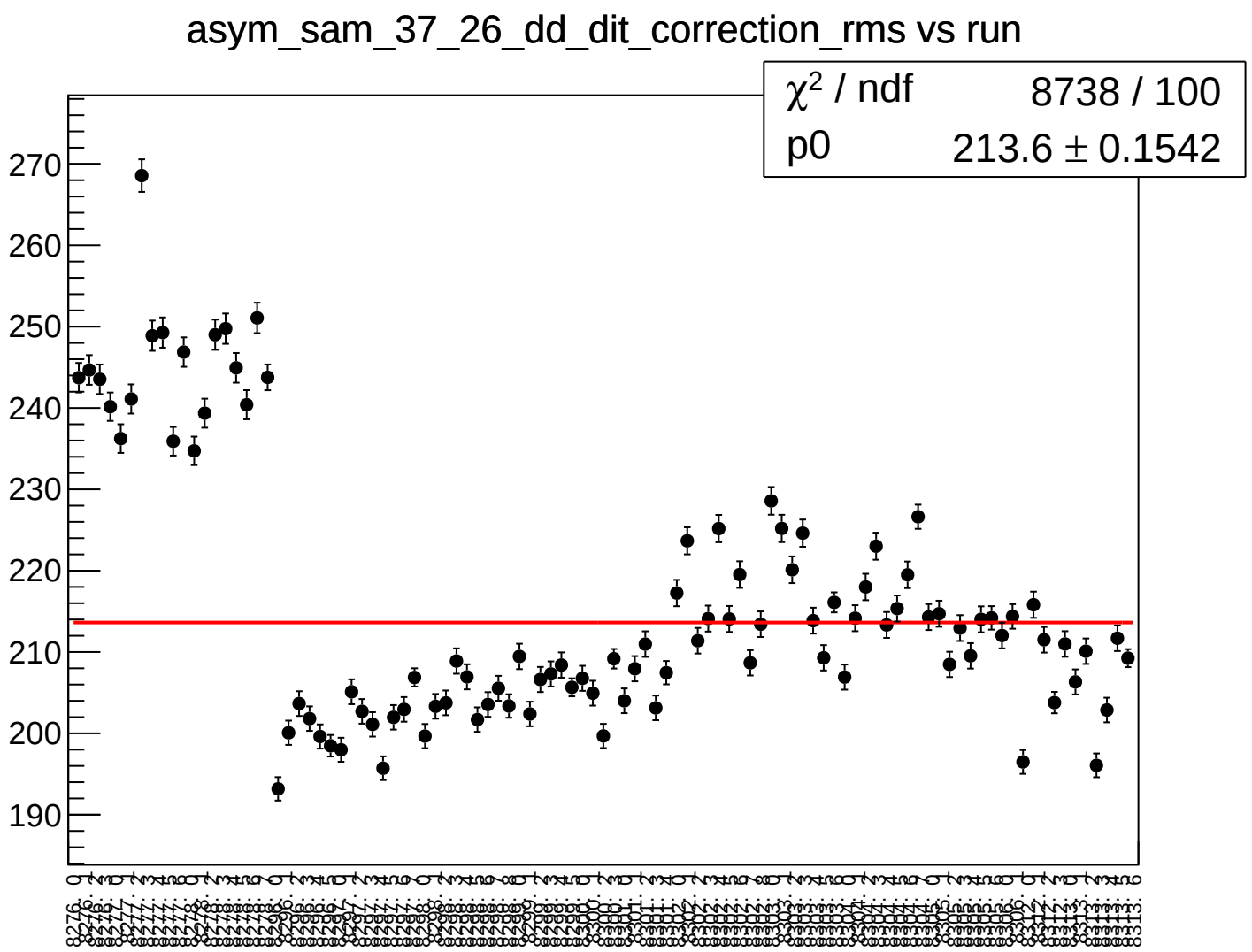

asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 96.8 / 100
p0 −312.7 ± 222.2
pull
Entries 101
Mean 529.3
Std Dev 0
pull1D
Entries 101
Mean −0.01299
Std Dev 0.9789

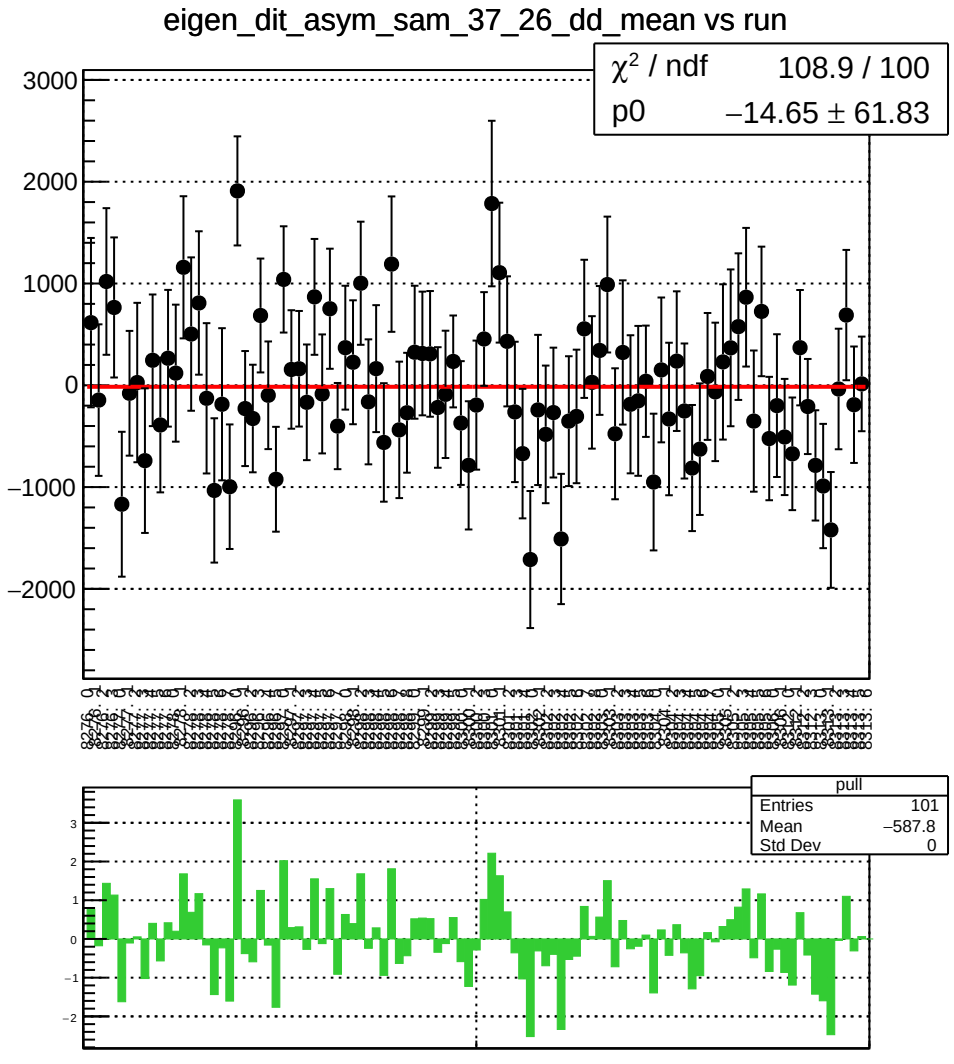

asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 1.337e+04 / 100
p0 217.3 ± 0.1571
280
260
240
220
200
180

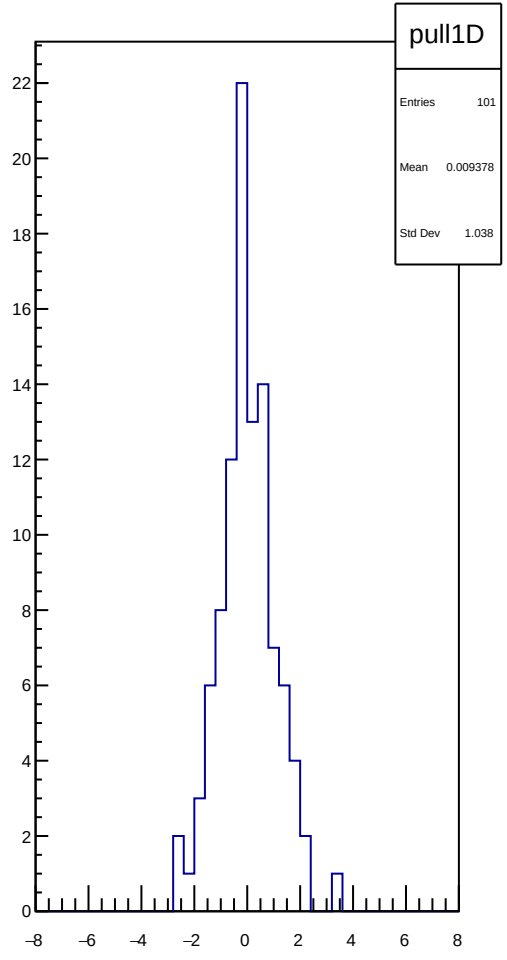

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 108.9 / 100
p0 −14.65 ± 61.83
3000
2000
1000
0
−1000
−2000
pull
Entries 101
Mean −587.7
Std Dev 0
pull1D
Entries 101
Mean 0.009379
Std Dev 1.038

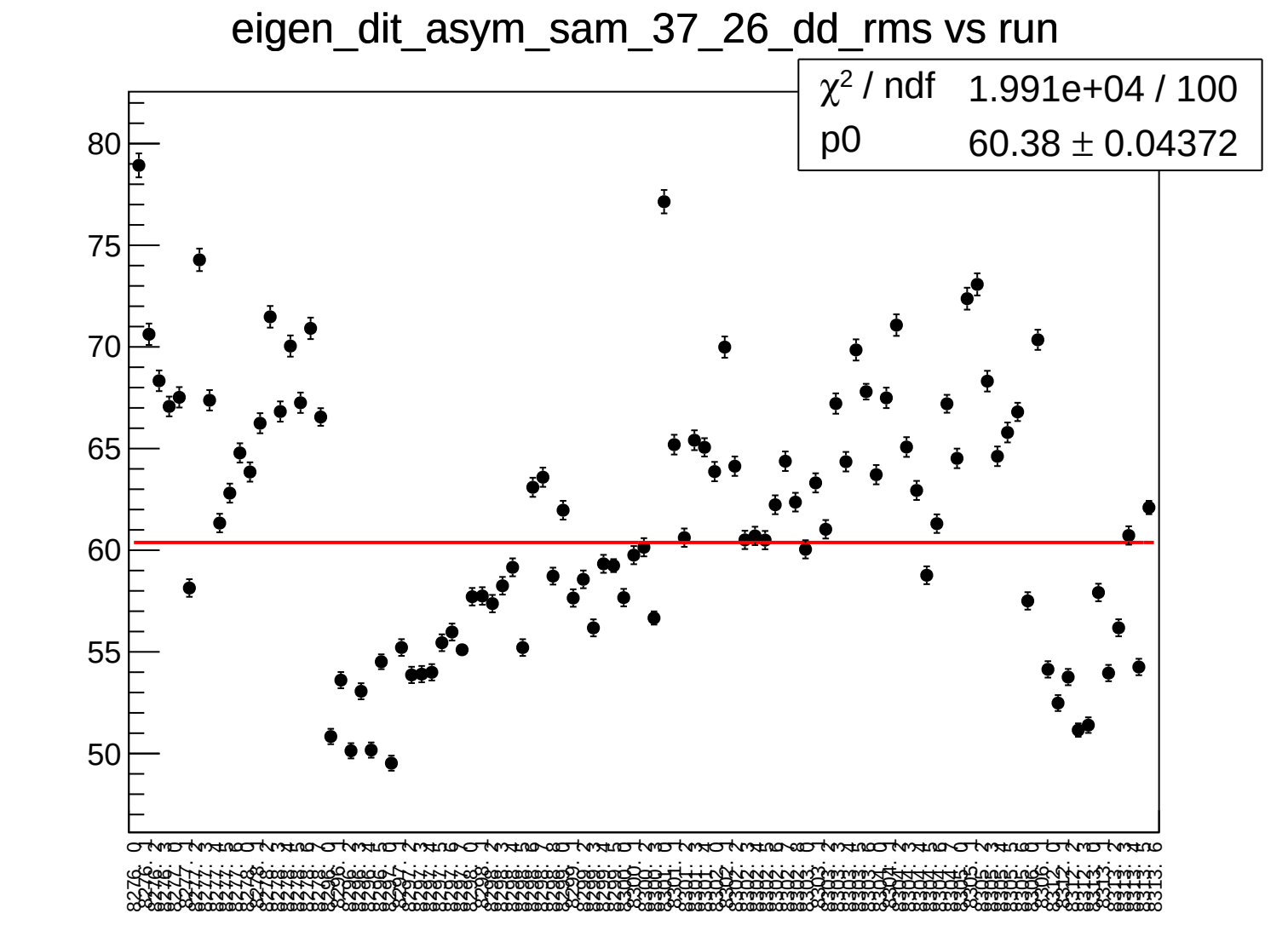

dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 1.991e+04 / 100
p0 60.38 ± 0.04372
80
75
70
65
60
55
50

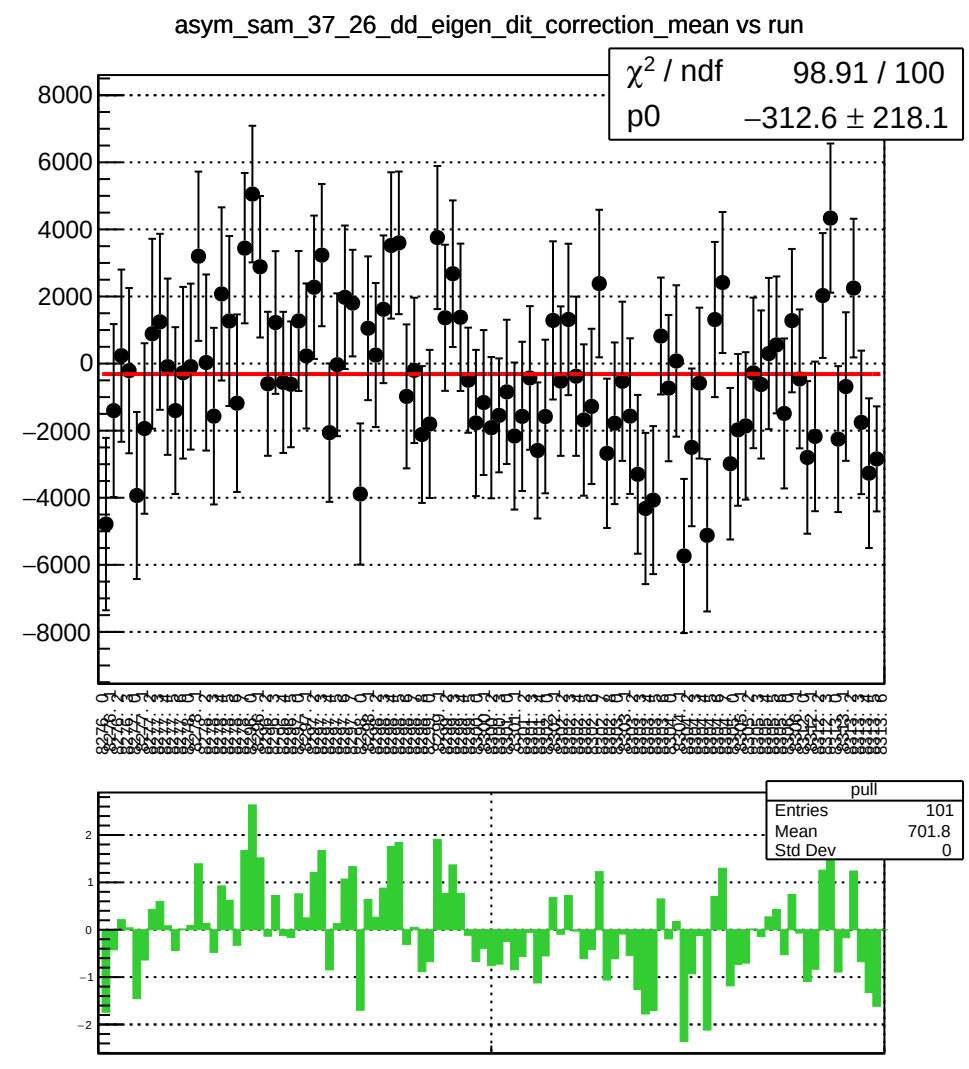

asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 98.91 / 100
p0 −312.6 ± 218.1
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 101
Mean 701.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.009869
Std Dev 0.9896
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

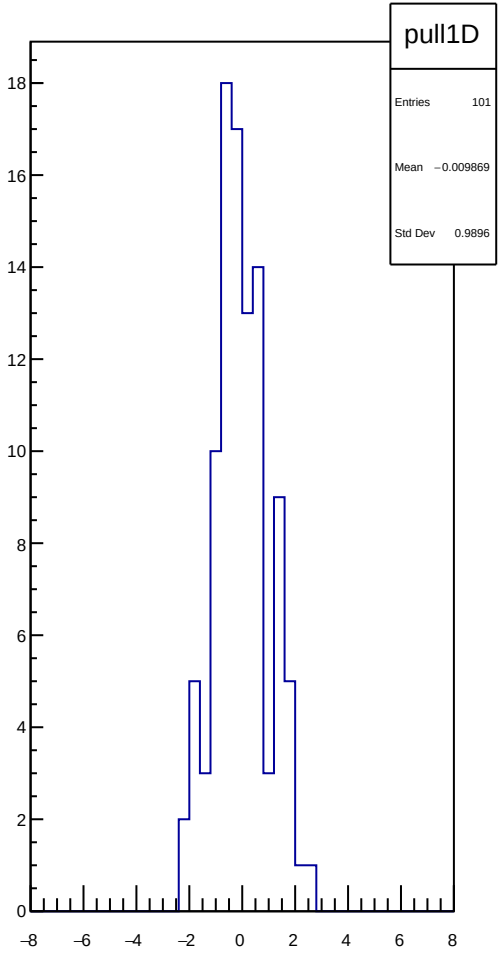

asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 8738 / 100
p0 213.6 ± 0.1542
270
260
250
240
230
220
210
200
190

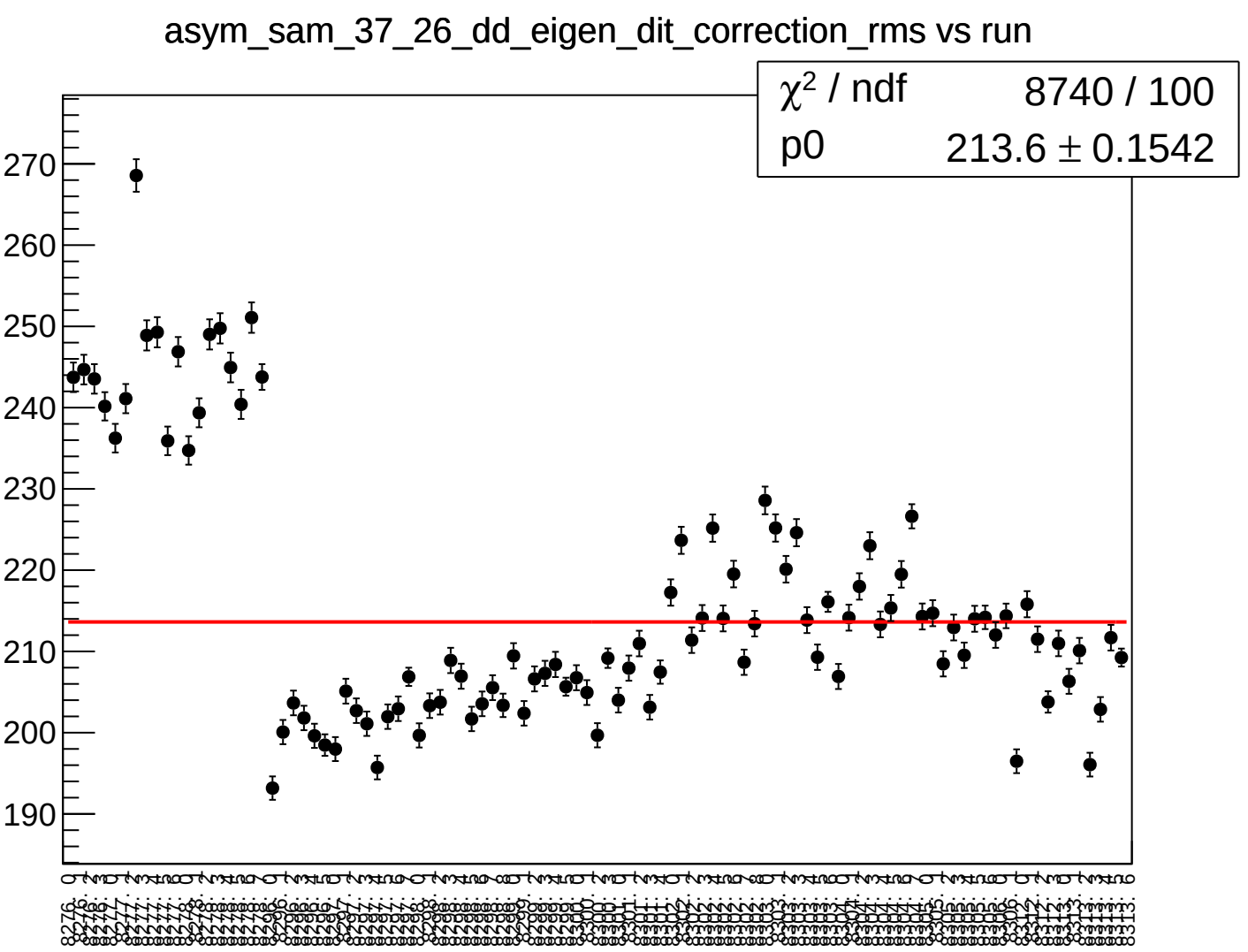

eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 108.9 / 100
p0 −14.65 ± 61.83
3000
2000
1000
0
−1000
−2000
pull
Entries 101
Mean −587.8
Std Dev 0
3
2
1
0
−1
−2

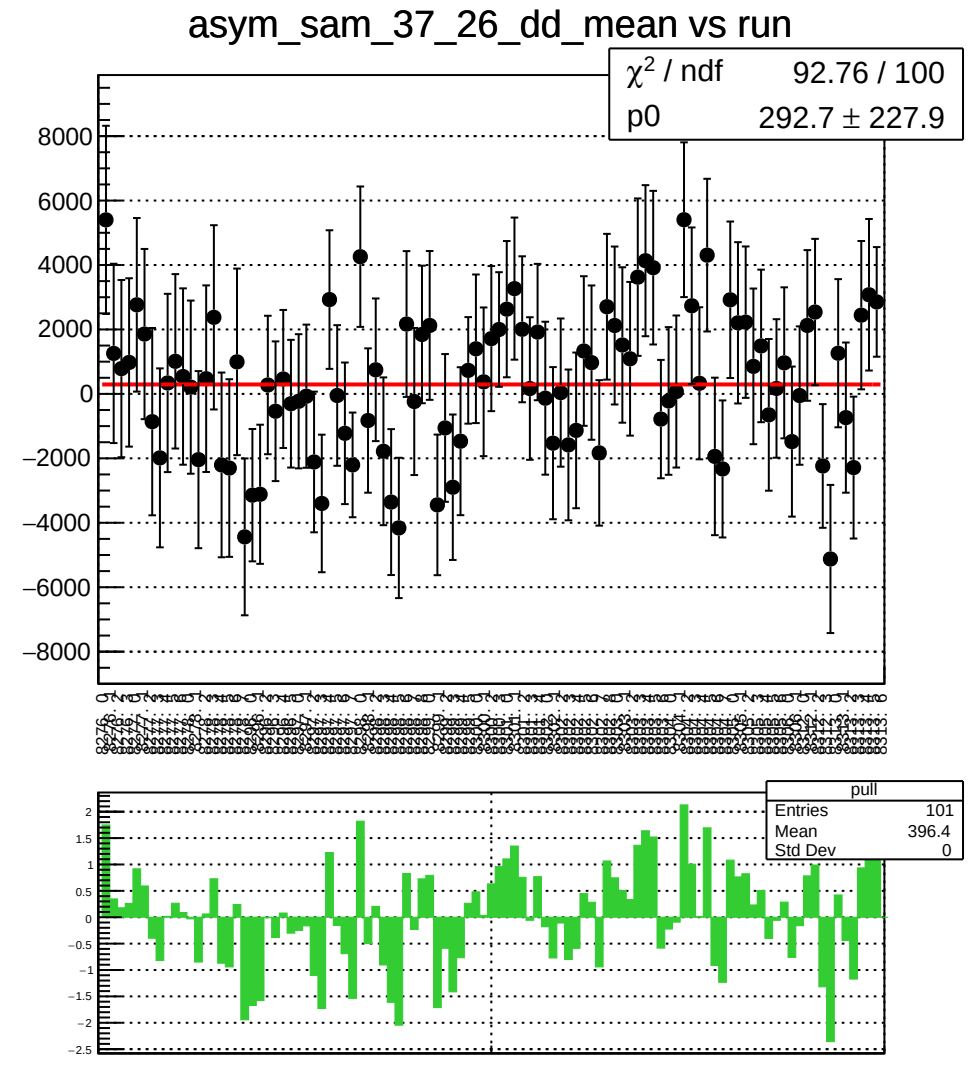

pull1D
Entries 101
Mean 0.009378
Std Dev 1.038
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

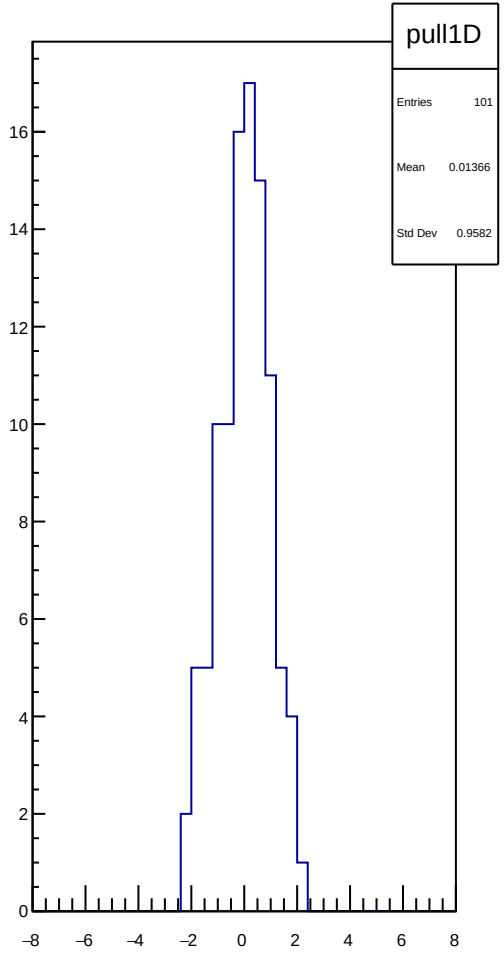

eigen_dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 1.991e+04 / 100
p0 60.38 ± 0.04372
80
75
70
65
60
55
50

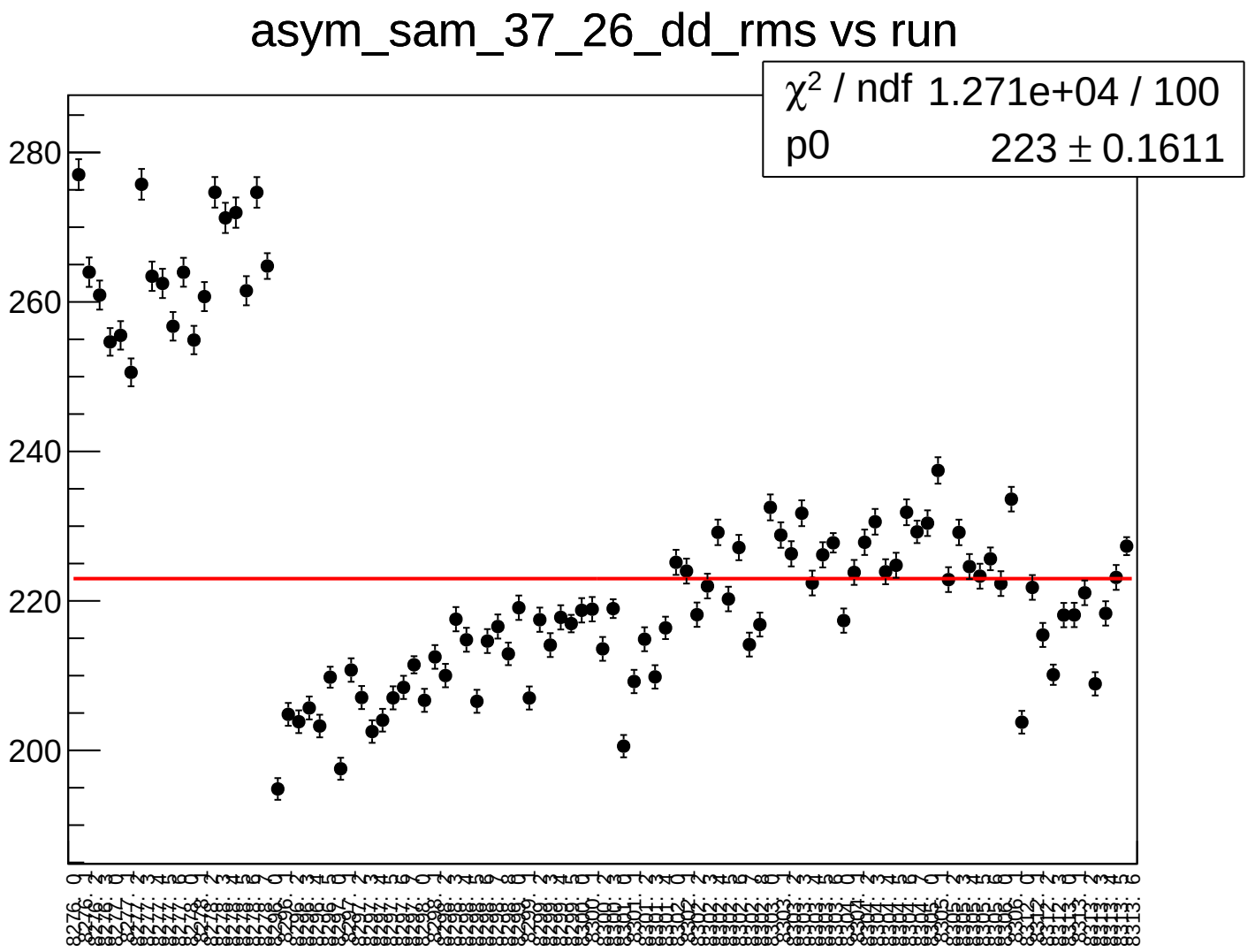

asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 98.91 / 100
p0 −312.6 ± 218.1
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 101
Mean 701.8
Std Dev 0
2
1
0
−1
−2

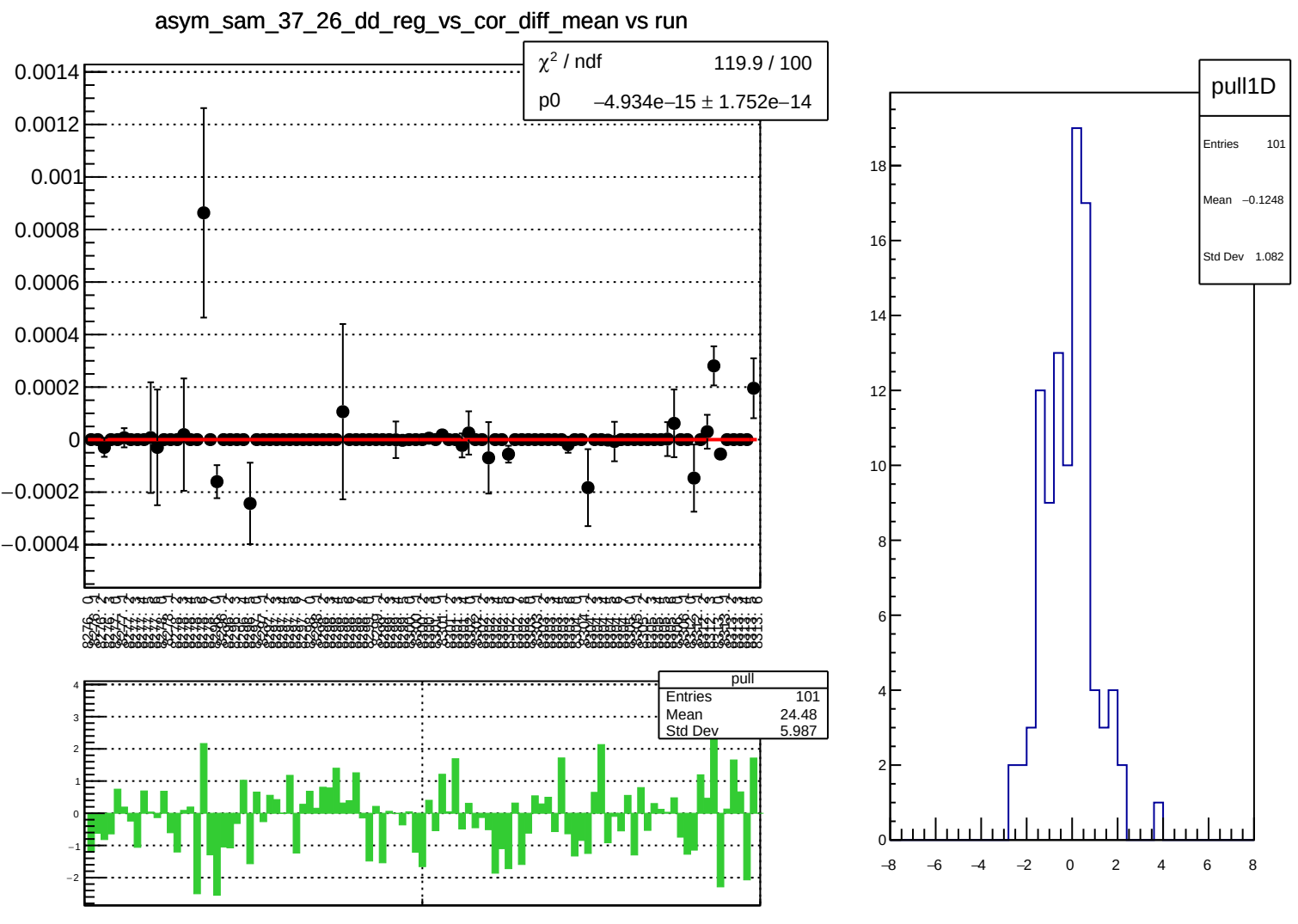

pull1D
Entries 101
Mean −0.009869
Std Dev 0.9896
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

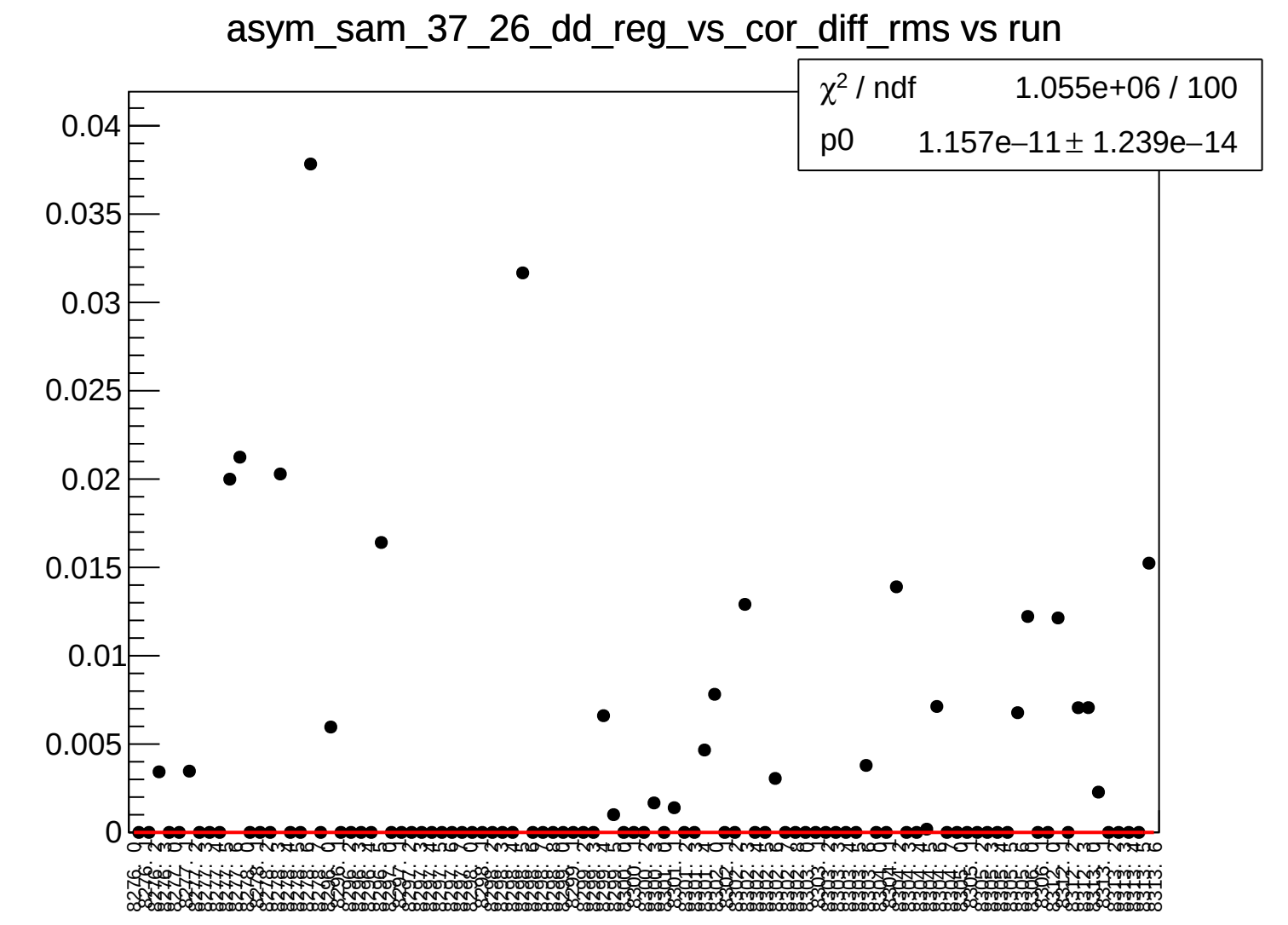

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 8740 / 100
p0 213.6 ± 0.1542
270
260
250
240
230
220
210
200
190

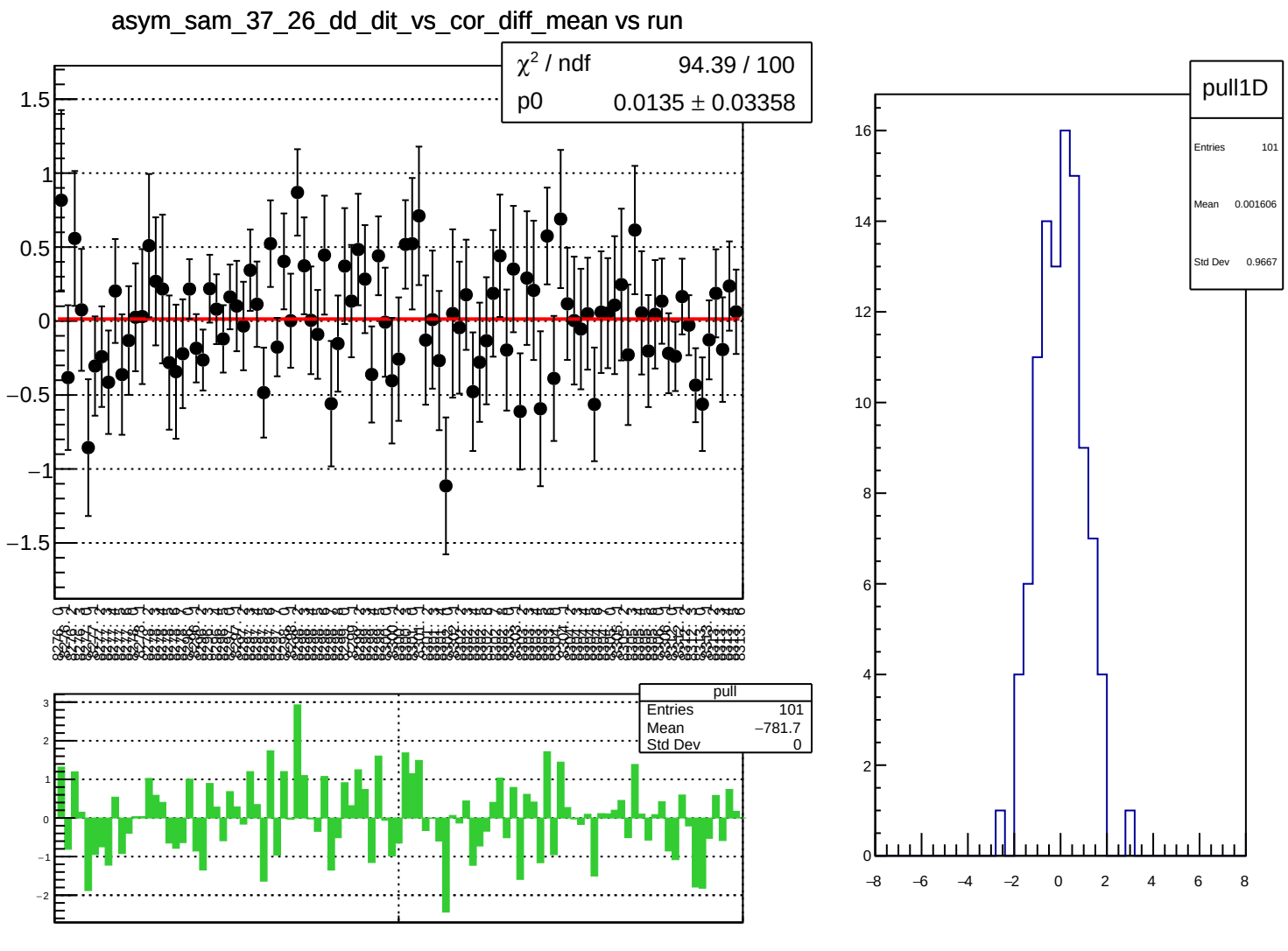

asym_sam_37_26_dd_mean vs run
χ² / ndf 92.76 / 100
p0 292.7 ± 227.9
pull
Entries 101
Mean 396.4
Std Dev 0

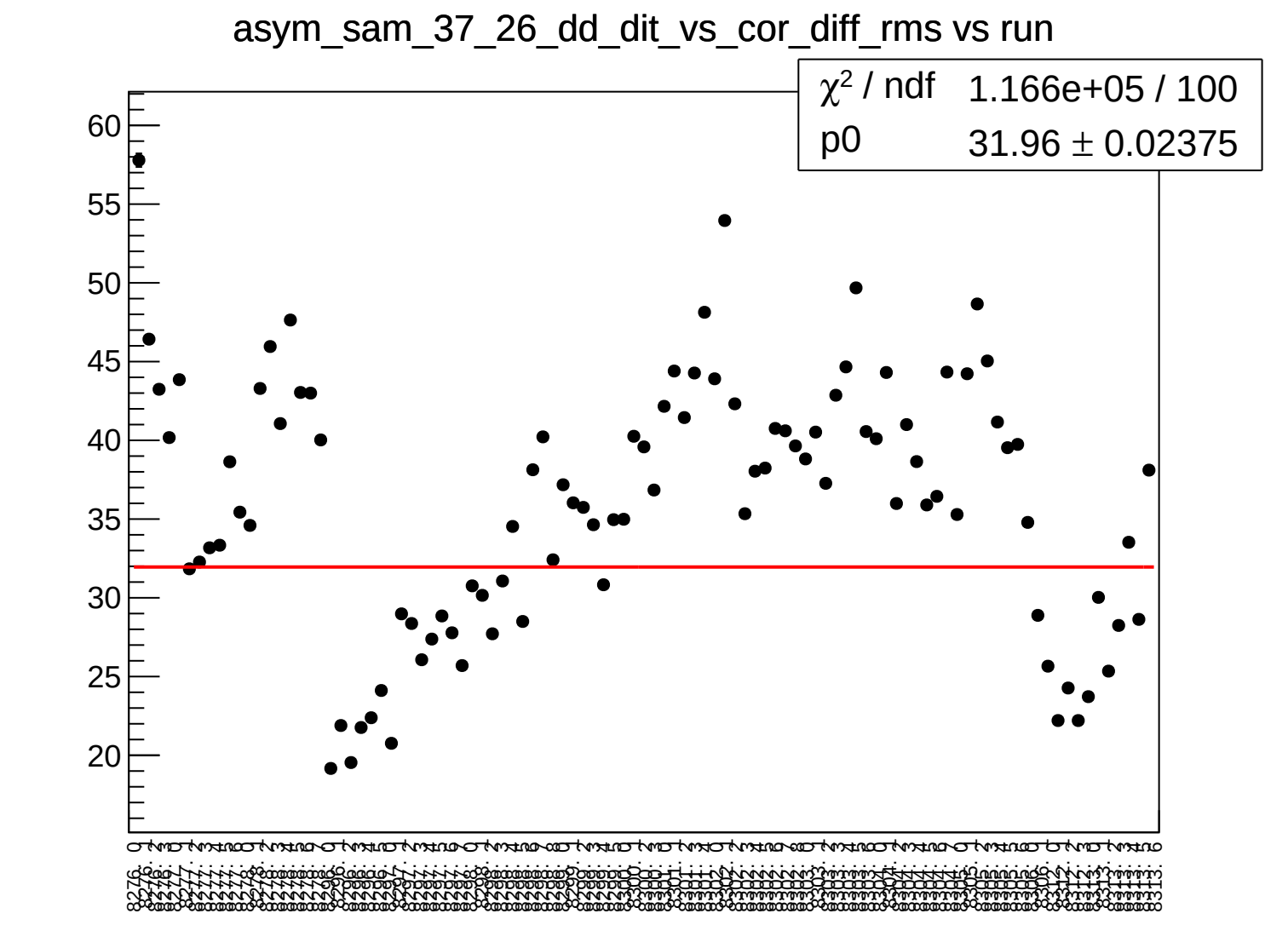

pull1D
Entries 101
Mean 0.01366
Std Dev 0.9582

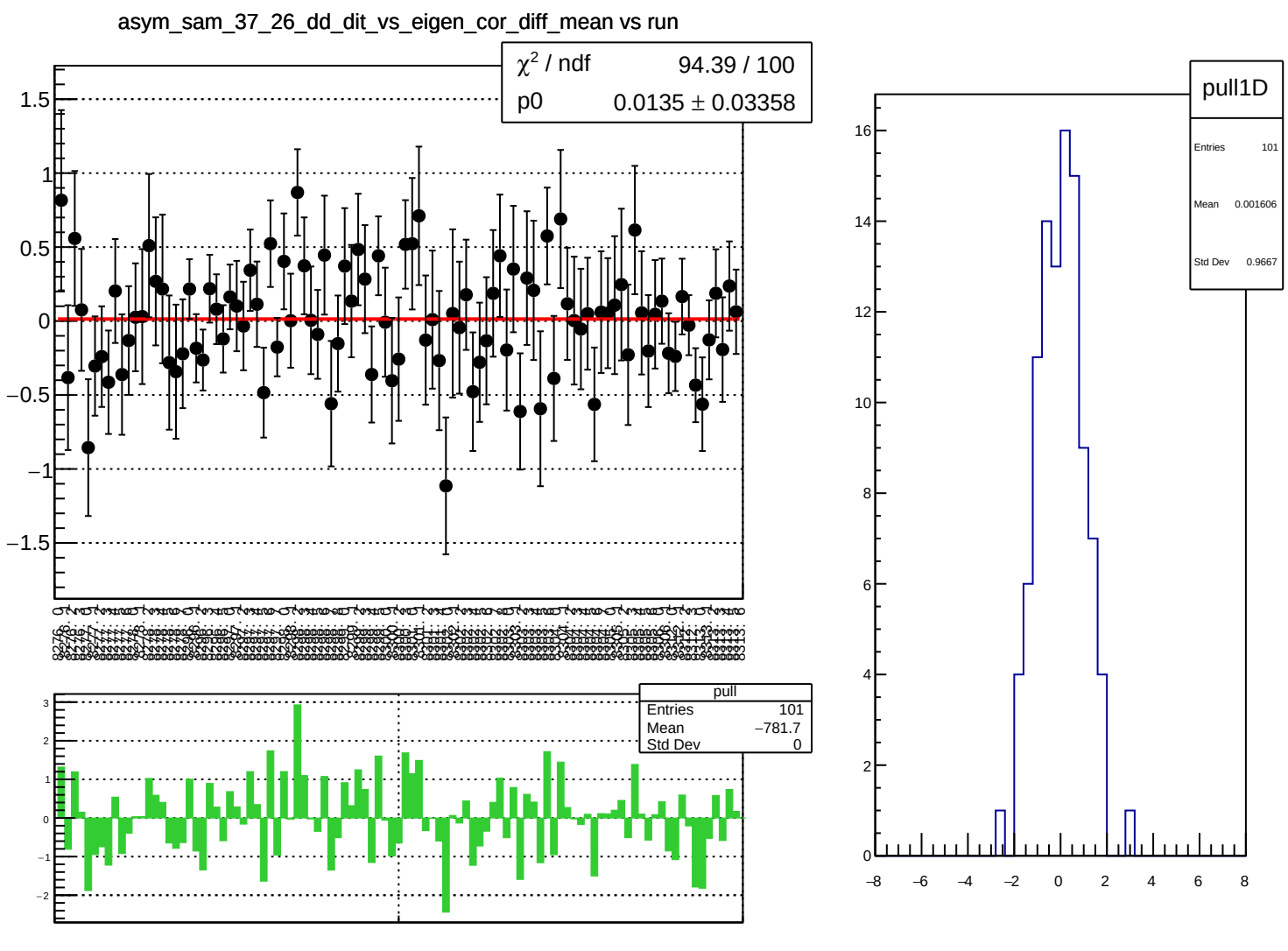

asym_sam_37_26_dd_rms vs run
χ^2 / ndf 1.271e+04 / 100
p0 223 ± 0.1611
280
260
240
220
200

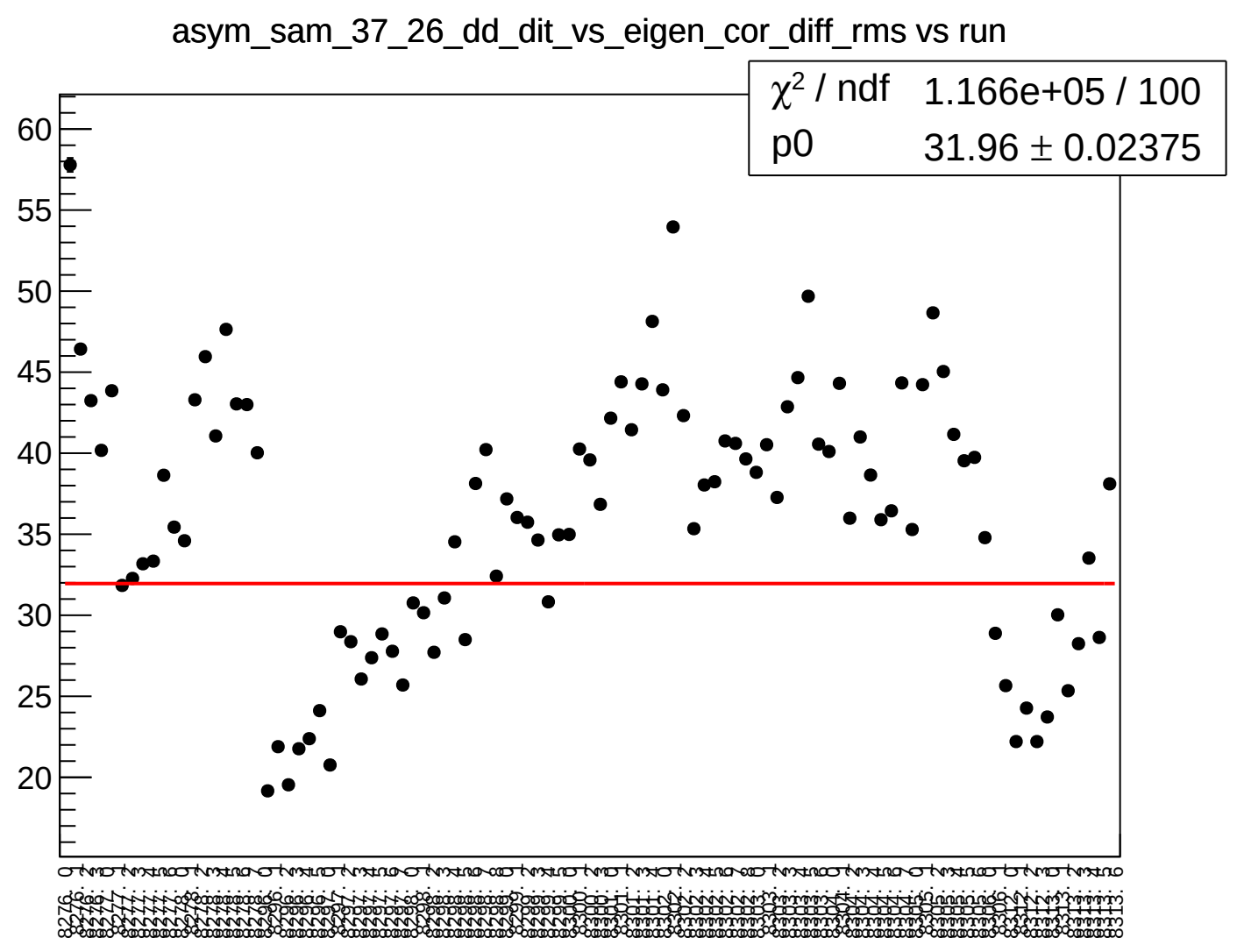

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 119.9 / 100
p0 −4.934e−15 ± 1.752e−14
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
pull
Entries 101
Mean 24.48
Std Dev 5.987
4
3
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.1248
Std Dev 1.082
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

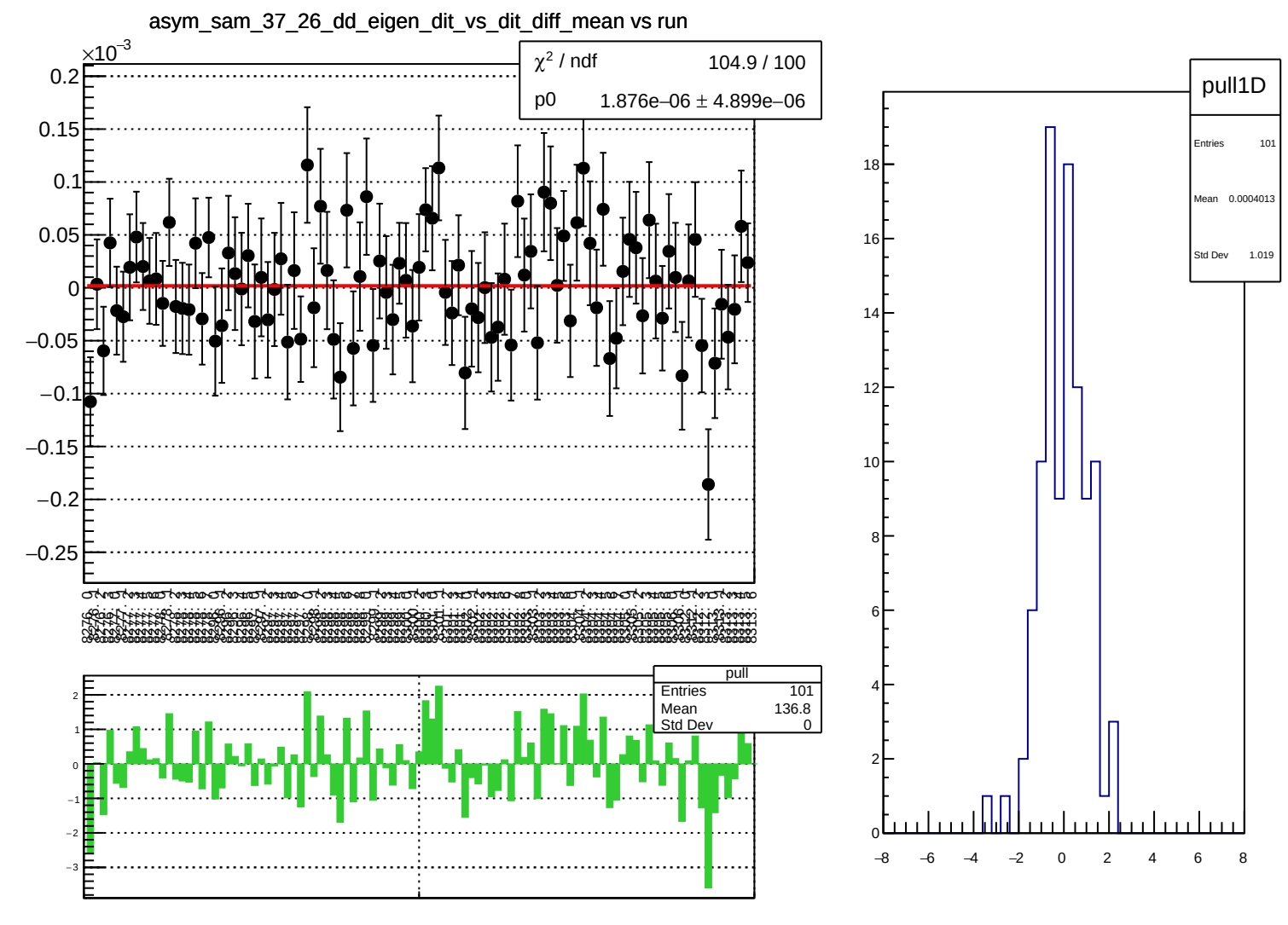

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.055e+06 / 100
p0 1.157e−11 ± 1.239e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

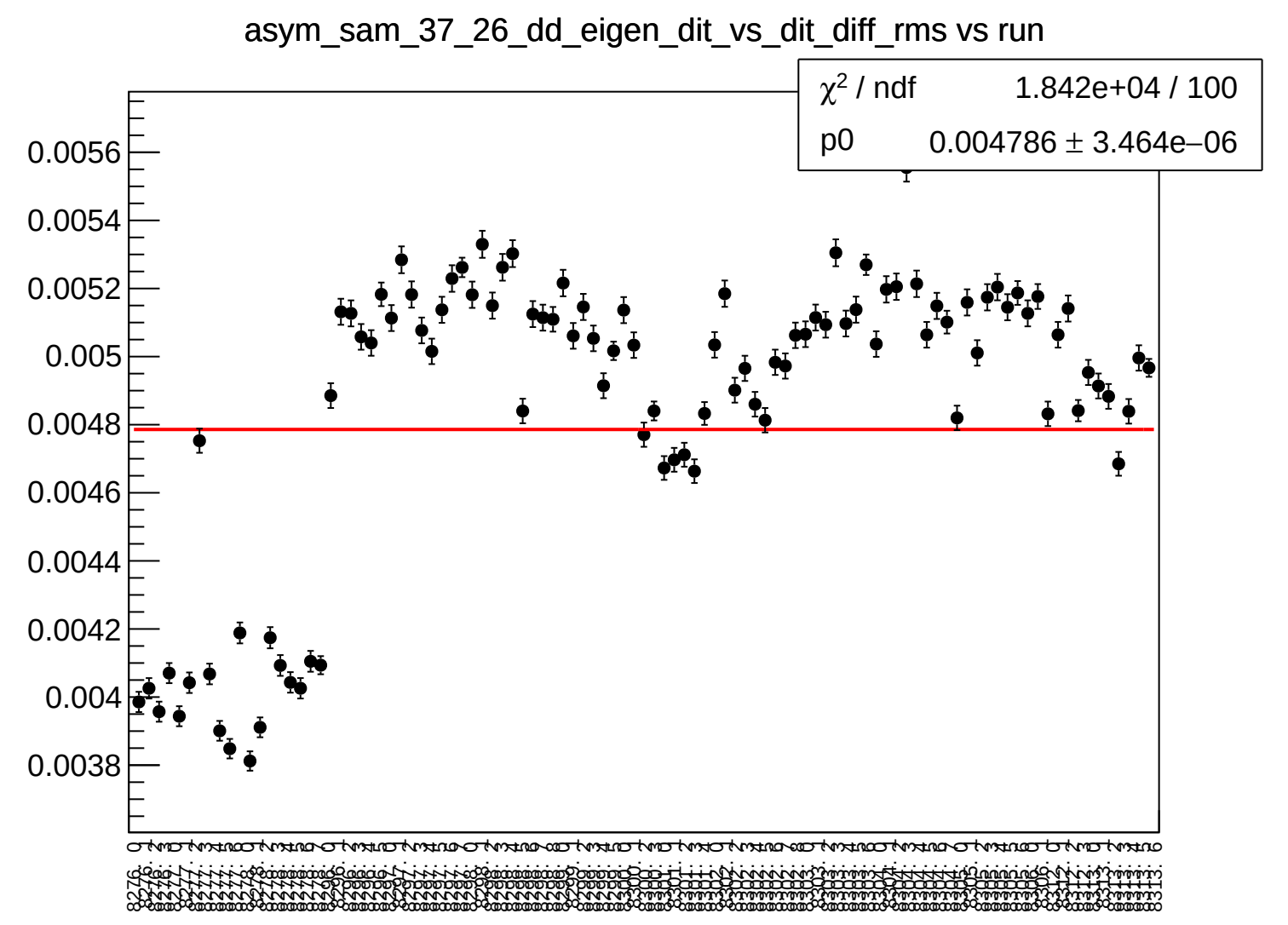

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 94.39 / 100
p0 0.0135 ± 0.03358
pull
Entries 101
Mean −781.7
Std Dev 0
pull1D
Entries 101
Mean 0.001606
Std Dev 0.9667

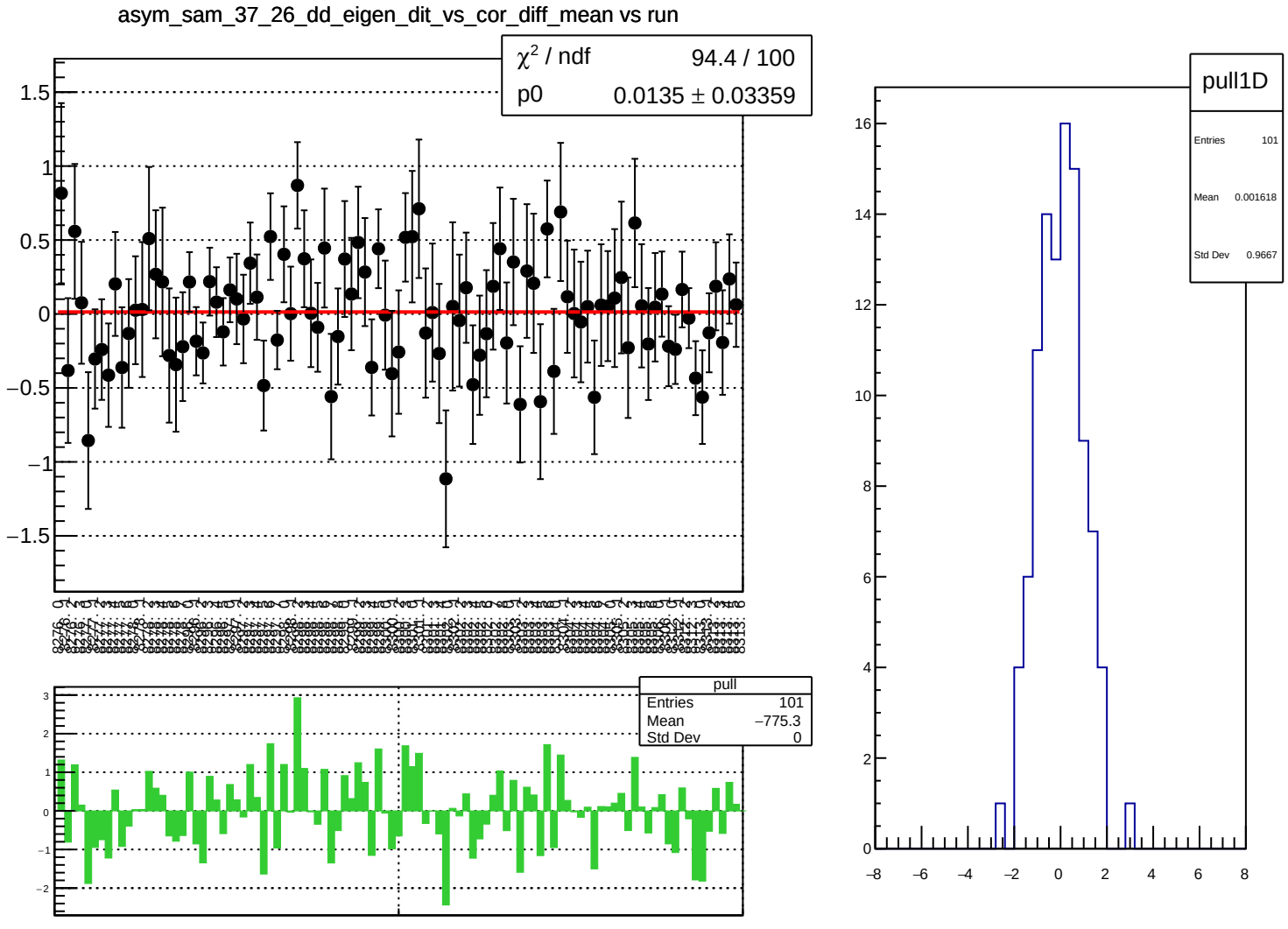

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.166e+05 / 100
p0 31.96 ± 0.02375
60
55
50
45
40
35
30
25
20

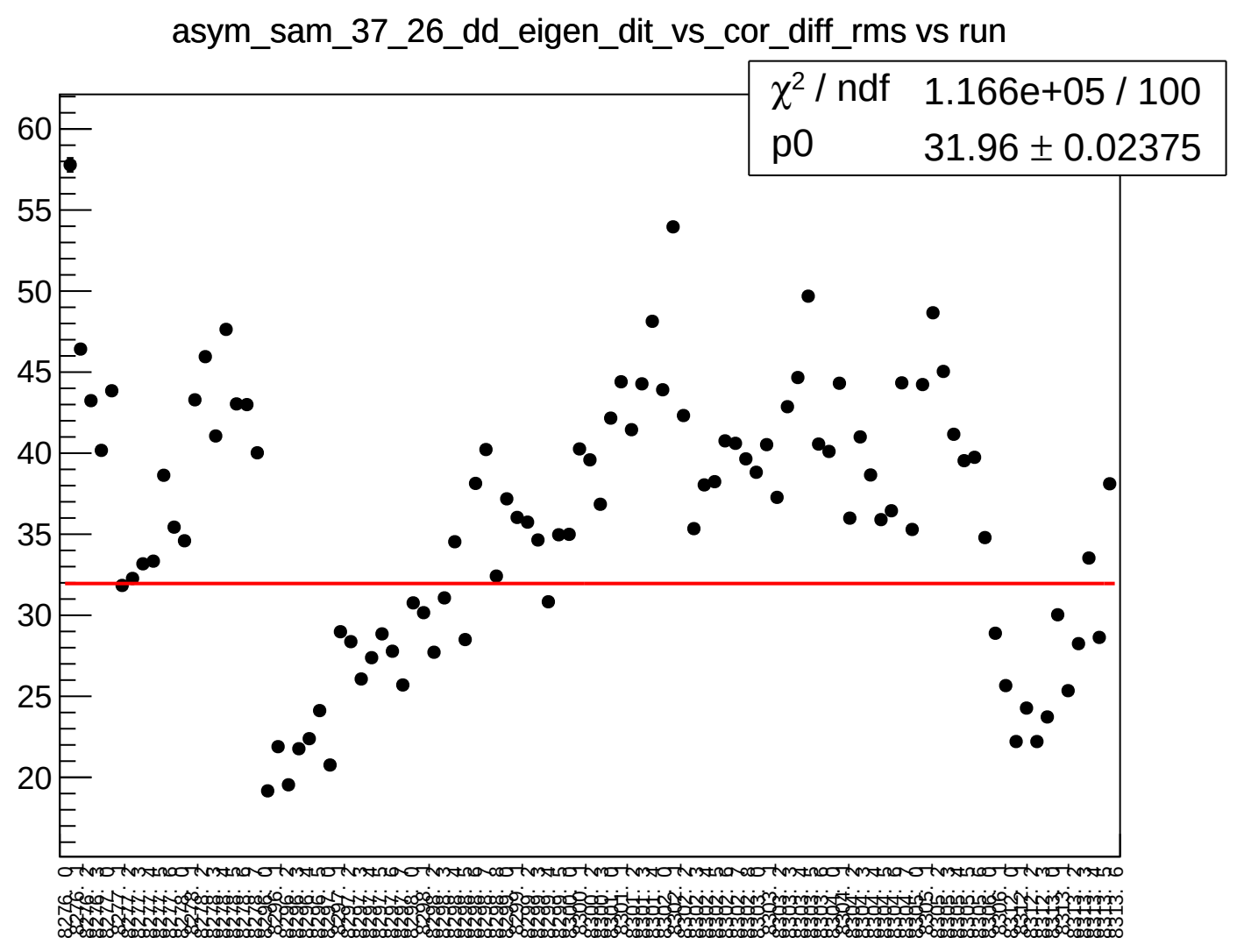

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.39 / 100
p0 0.0135 ± 0.03358
pull
Entries 101
Mean −781.7
Std Dev 0
pull1D
Entries 101
Mean 0.001606
Std Dev 0.9667

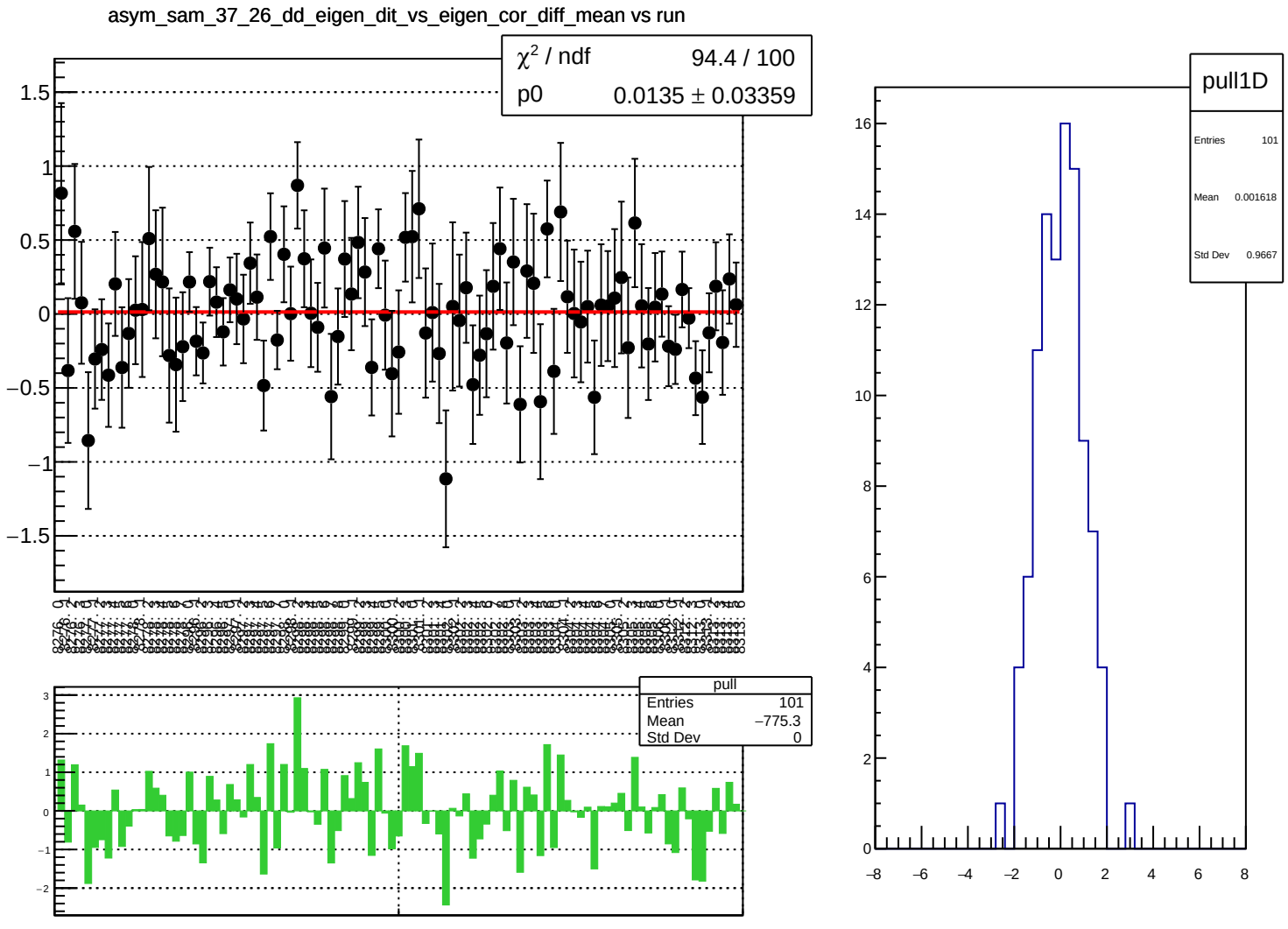

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.166e+05 / 100
p0 31.96 ± 0.02375
60
55
50
45
40
35
30
25
20

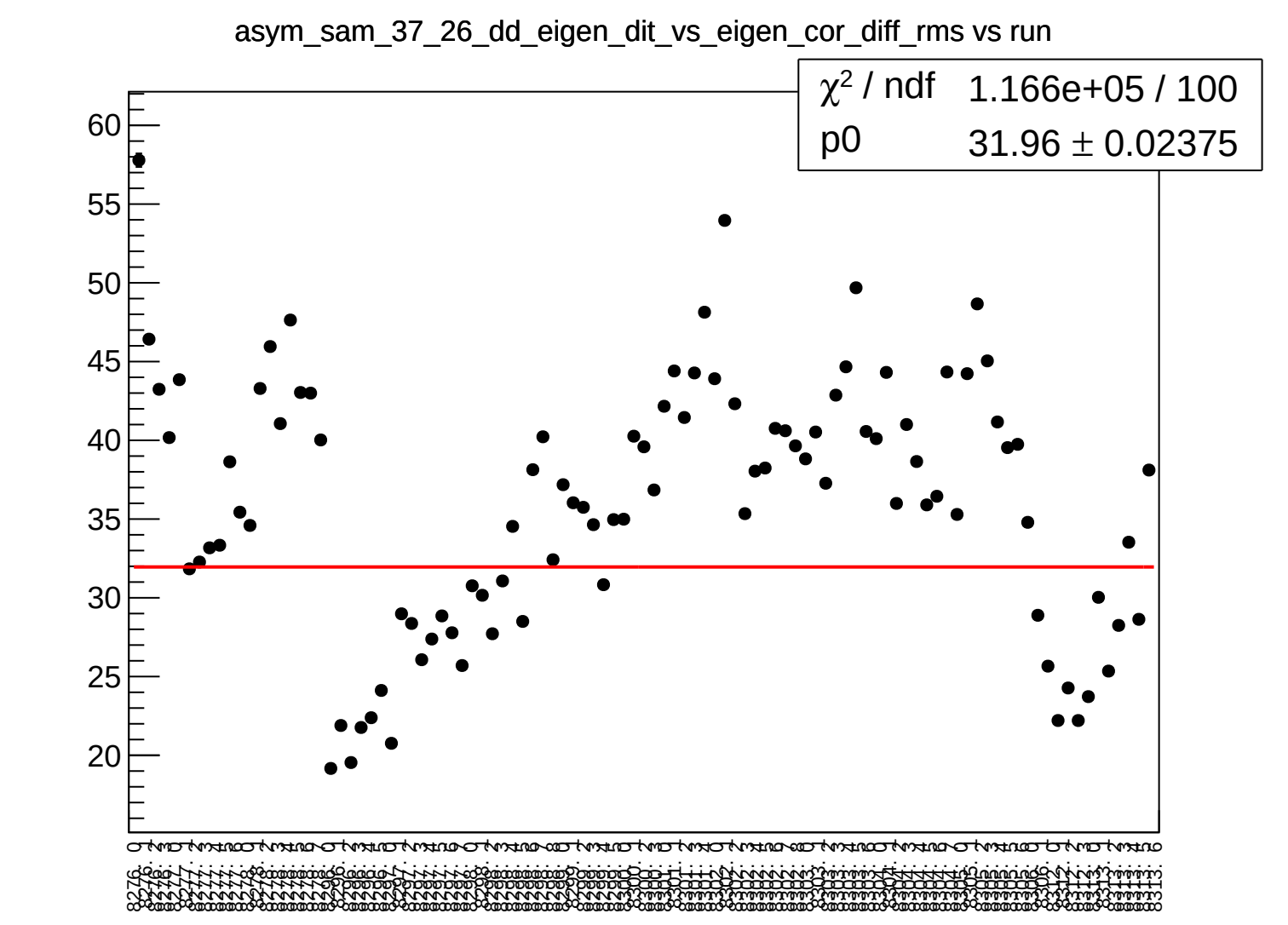

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 104.9 / 100
p0 1.876e−06 ± 4.899e−06
pull
Entries 101
Mean 136.8
Std Dev 0
pull1D
Entries 101
Mean 0.0004013
Std Dev 1.019

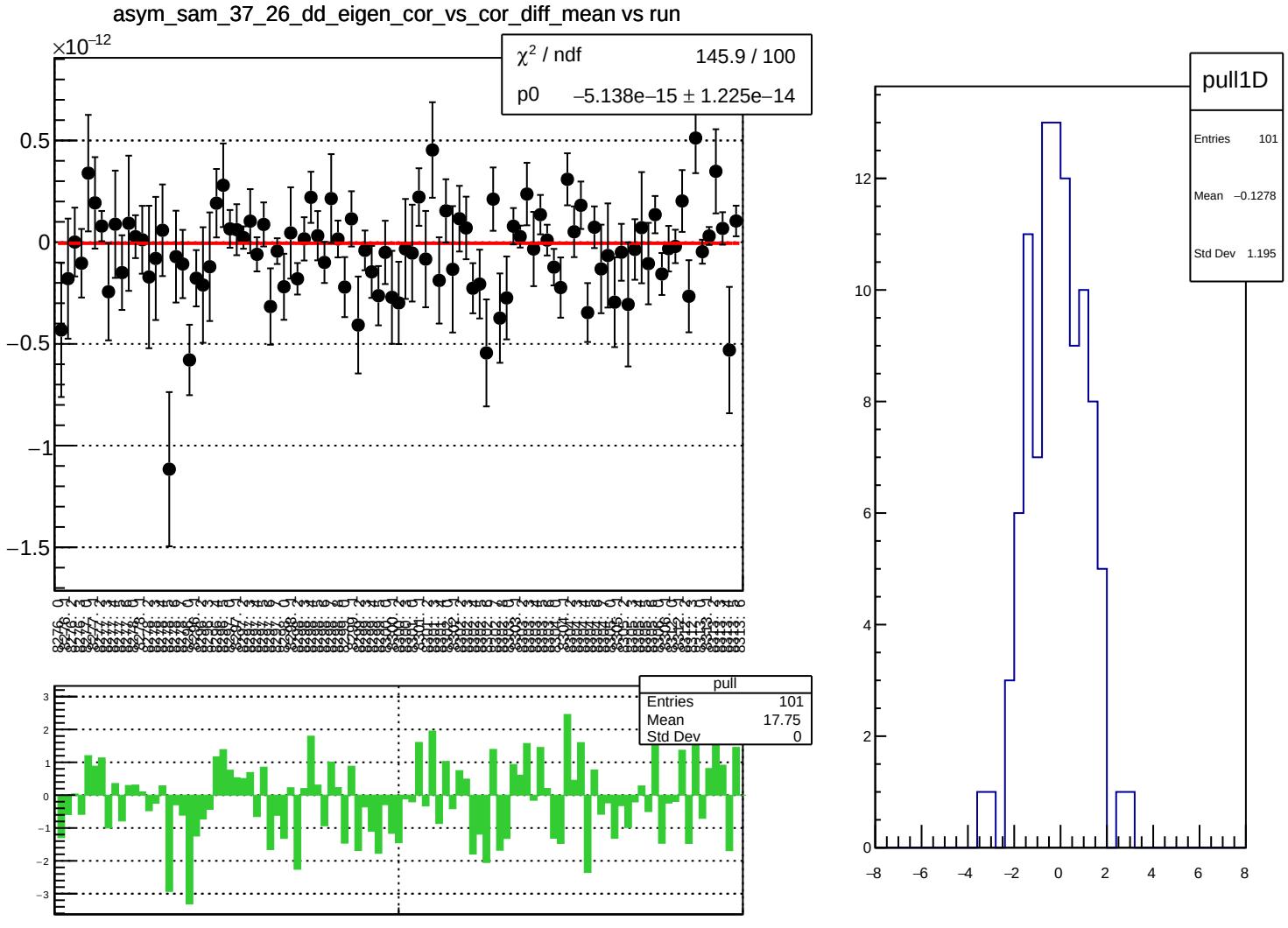

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.842e+04 / 100
p0 0.004786 ± 3.464e−06
0.0056
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038

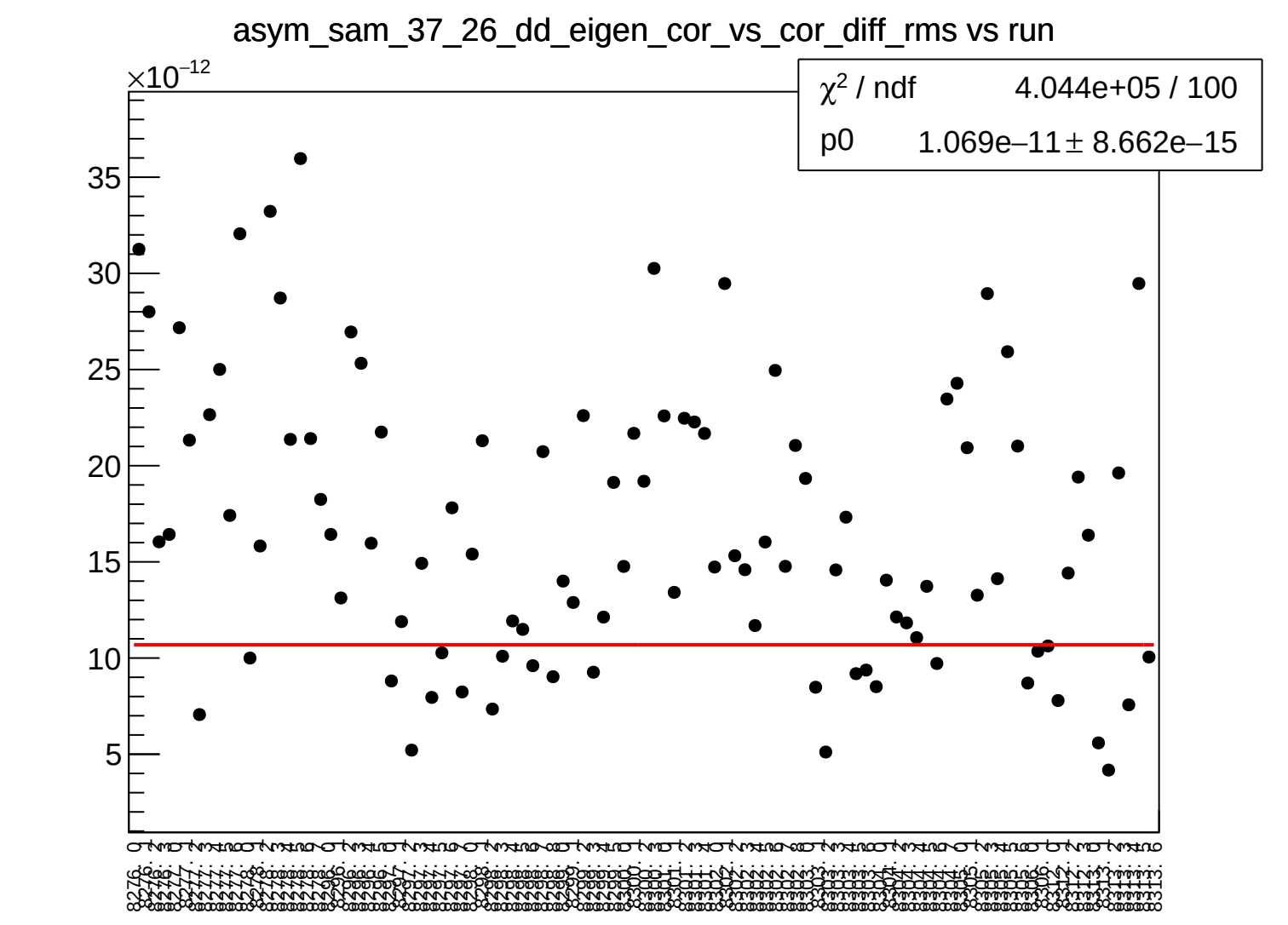

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.4 / 100
p0 0.0135 ± 0.03359
pull
Entries 101
Mean −775.3
Std Dev 0
pull1D
Entries 101
Mean 0.001618
Std Dev 0.9667

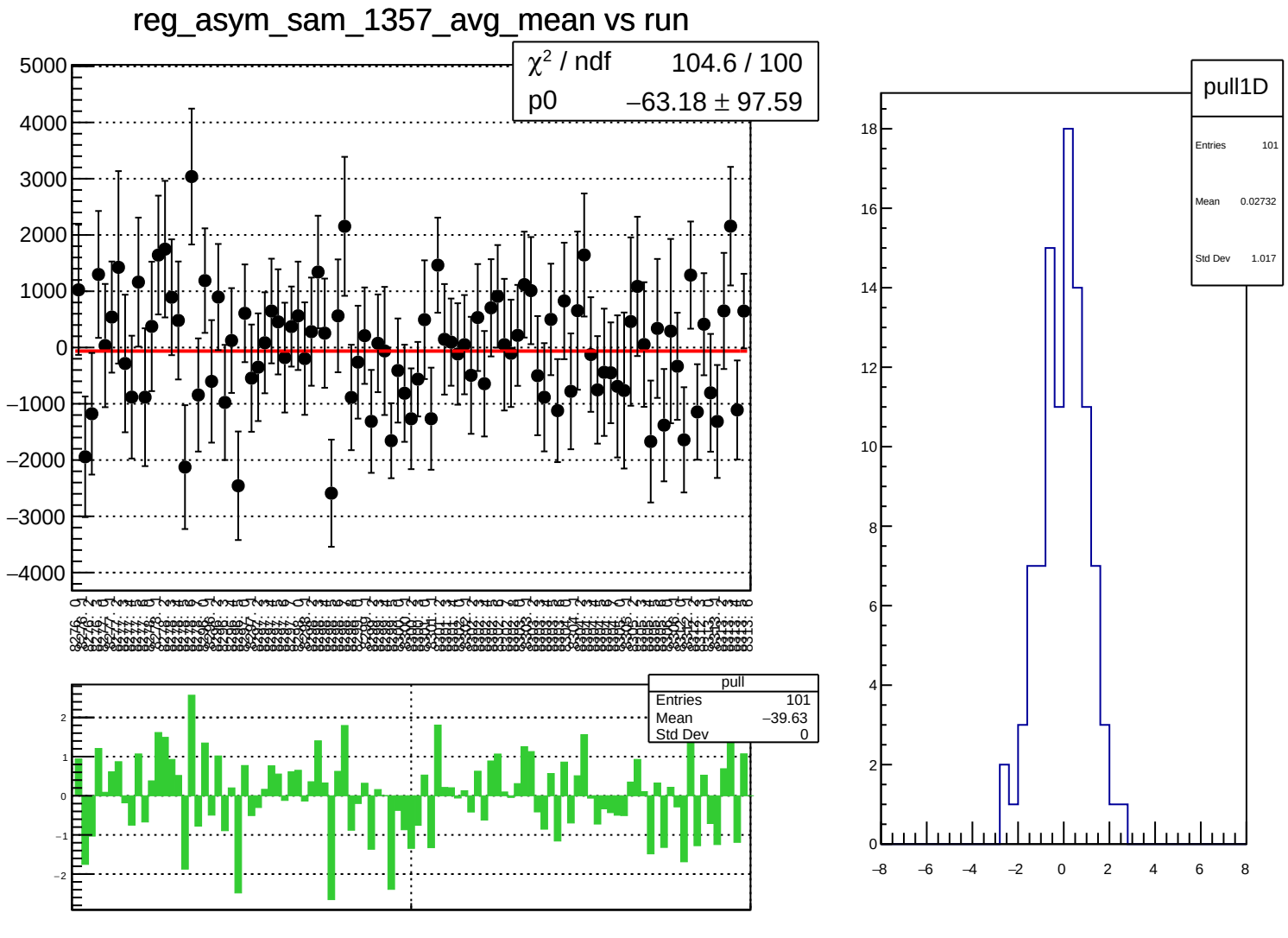

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.166e+05 / 100
p0 31.96 ± 0.02375
60
55
50
45
40
35
30
25
20

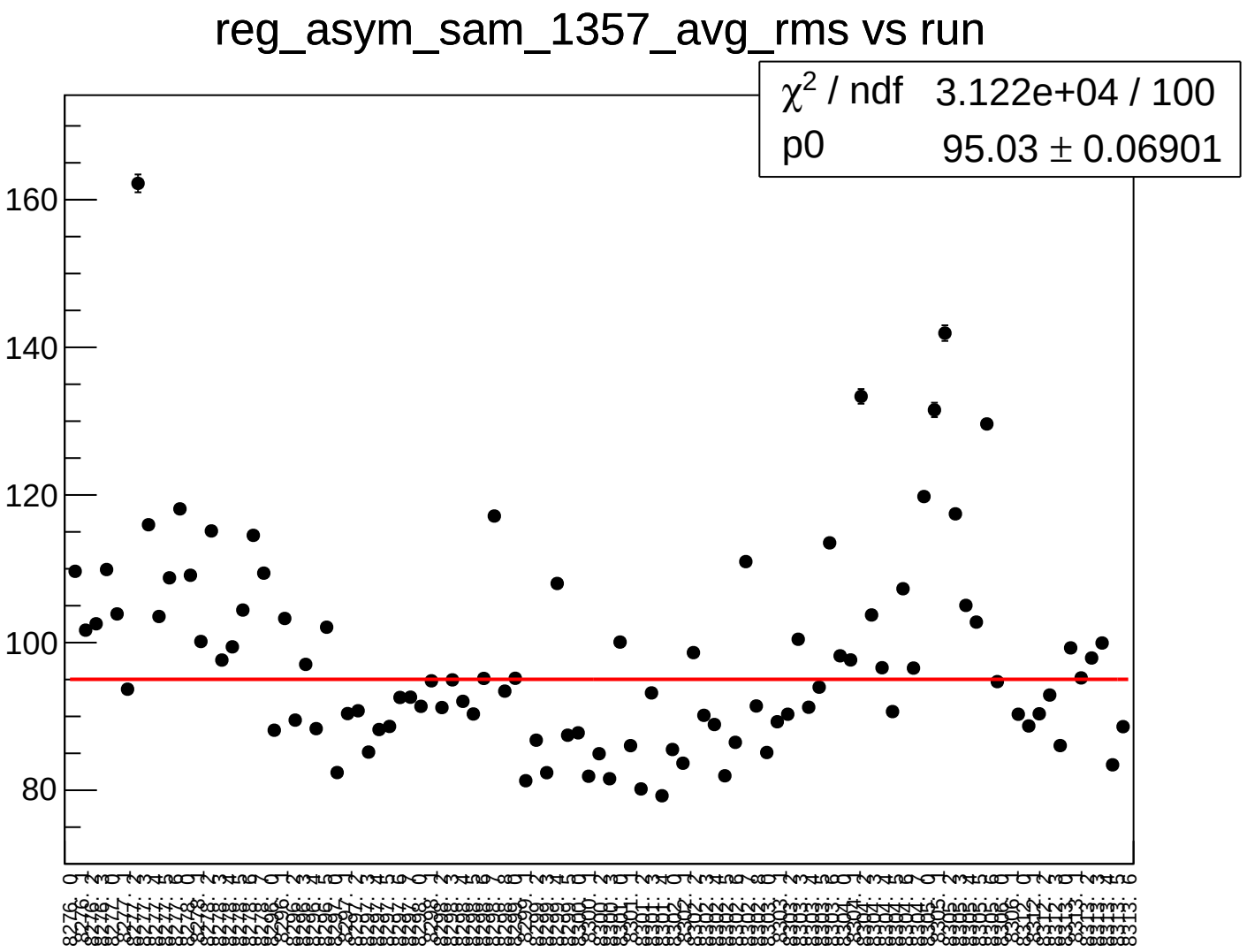

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.4 / 100
p0 0.0135 ± 0.03359
pull
Entries 101
Mean −775.3
Std Dev 0
pull1D
Entries 101
Mean 0.001618
Std Dev 0.9667

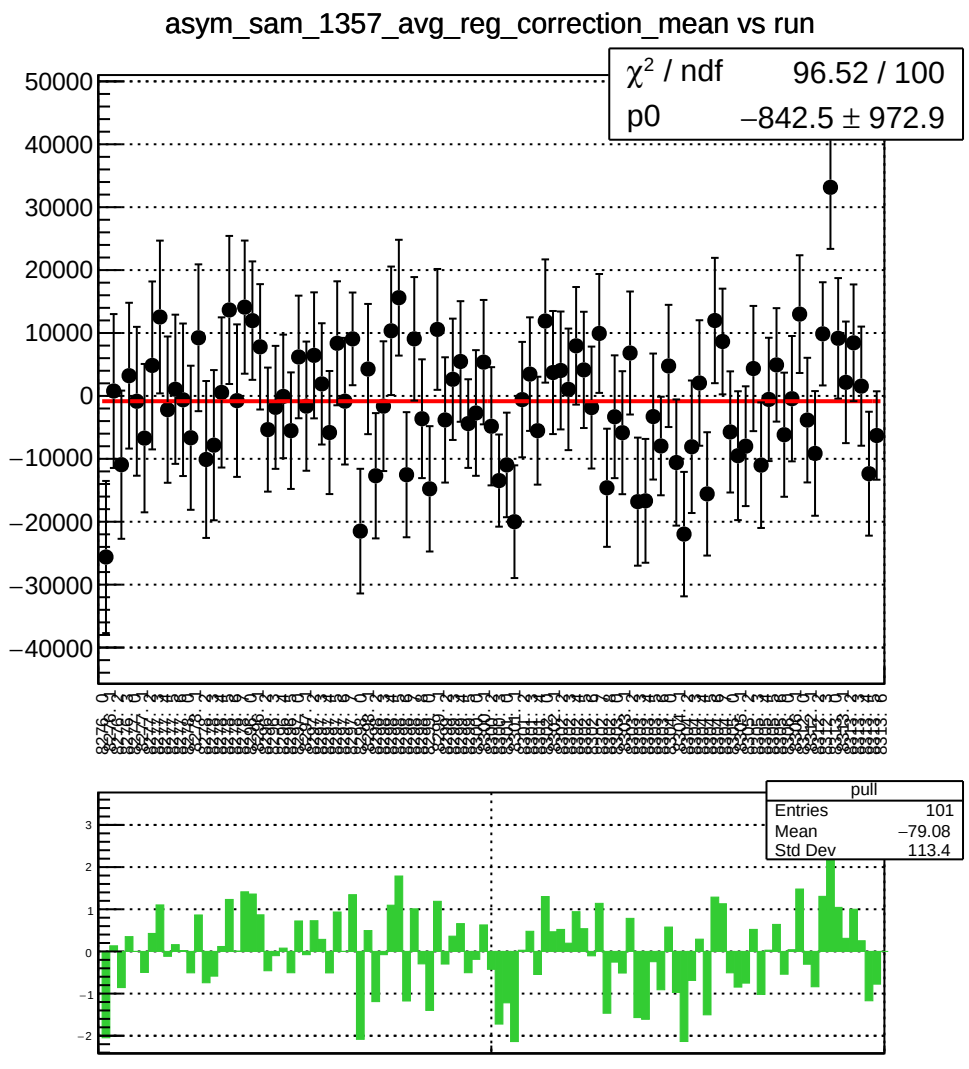

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.166e+05 / 100
p0 31.96 ± 0.02375
60
55
50
45
40
35
30
25
20

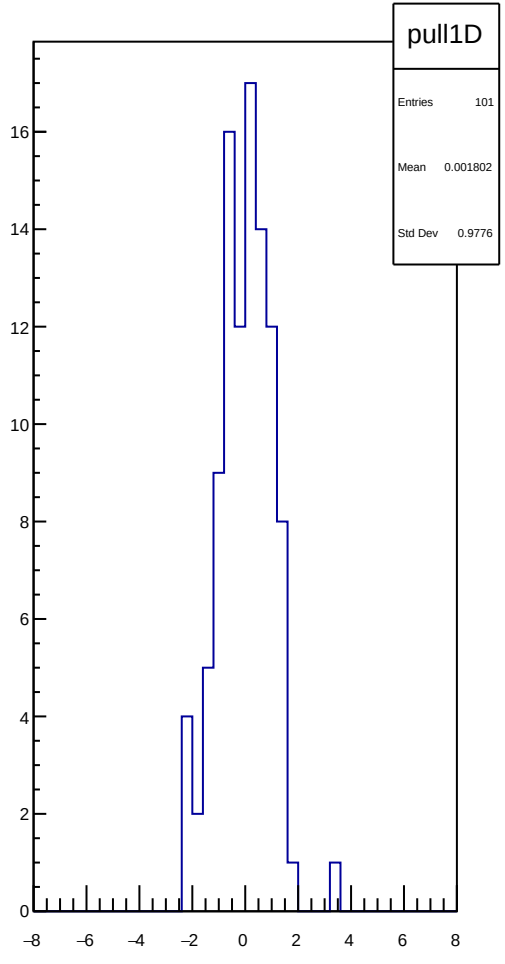

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 145.9 / 100
p0 −5.138e−15 ± 1.225e−14
0.5
0
−0.5
−1
−1.5
pull
Entries 101
Mean 17.75
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean −0.1278
Std Dev 1.195
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

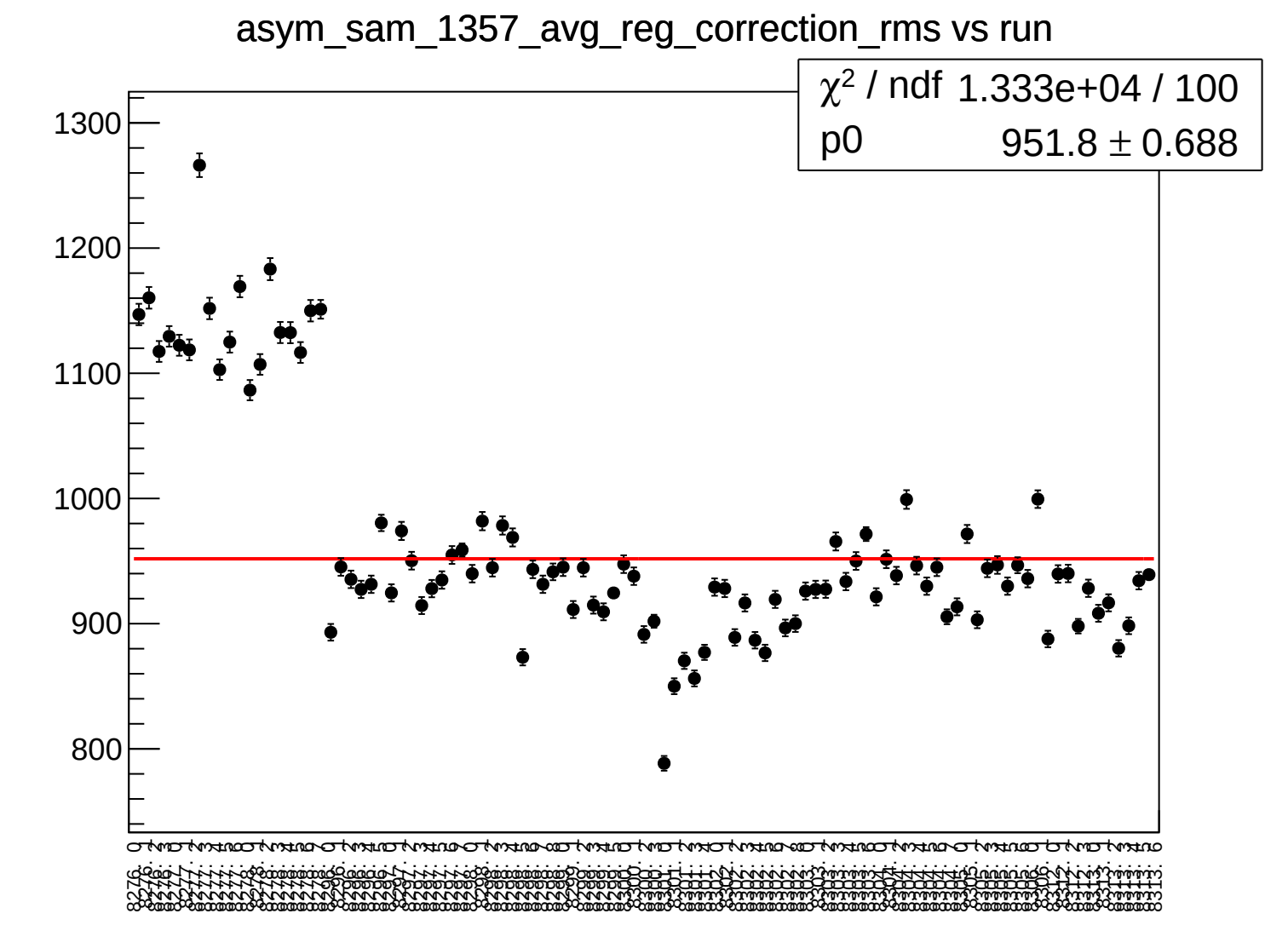

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.044e+05 / 100
p0 1.069e−11 ± 8.662e−15
35
30
25
20
15
10
5

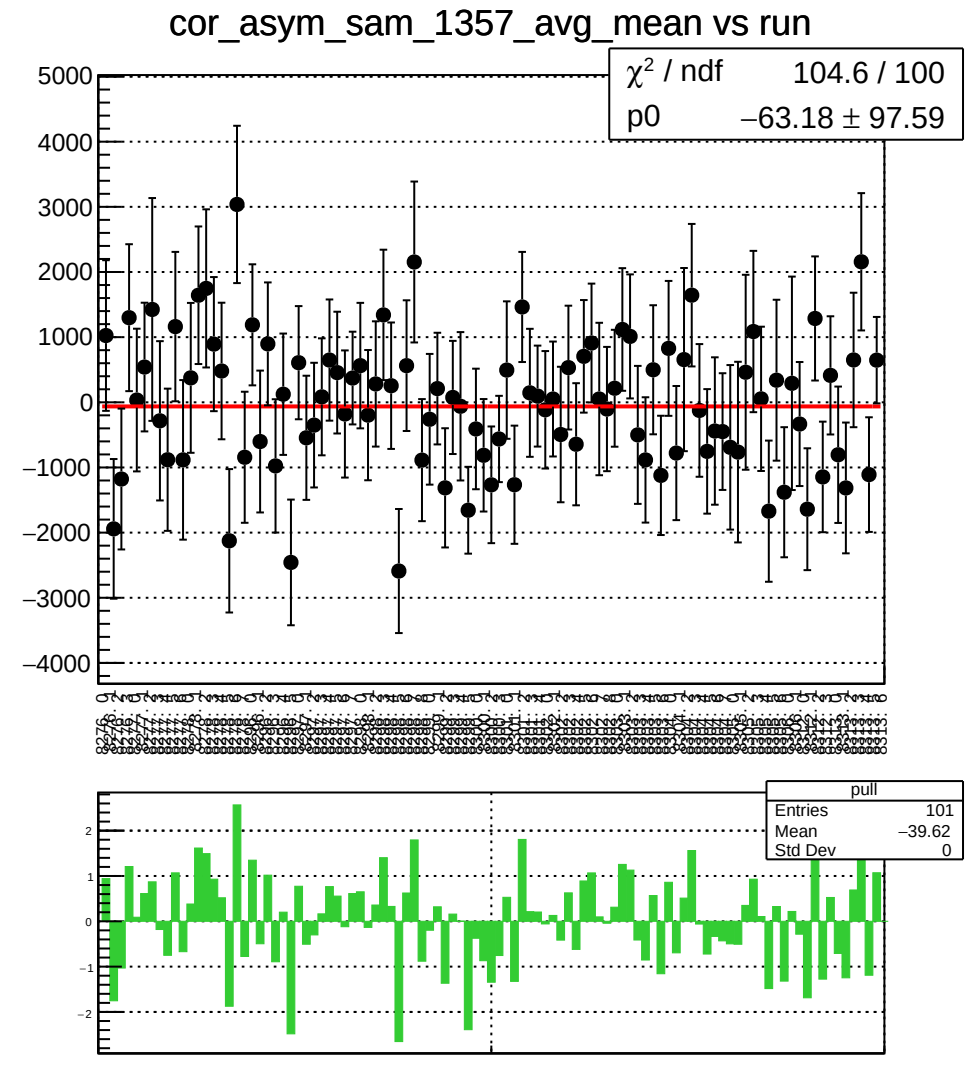

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 104.6 / 100
p0 −63.18 ± 97.59
pull
Entries 101
Mean −39.63
Std Dev 0
pull1D
Entries 101
Mean 0.02732
Std Dev 1.017

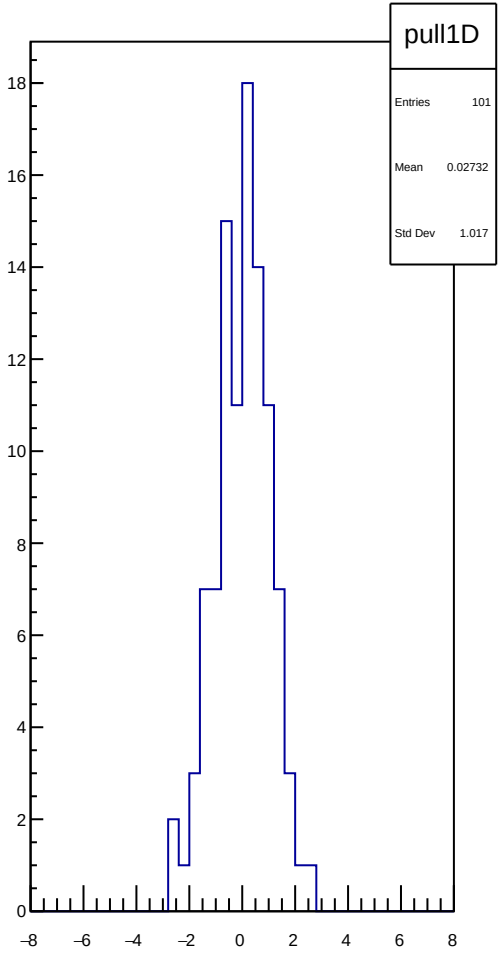

reg_asym_sam_1357_avg_rms vs run
χ² / ndf 3.122e+04 / 100
p0 95.03 ± 0.06901
160
140
120
100
80

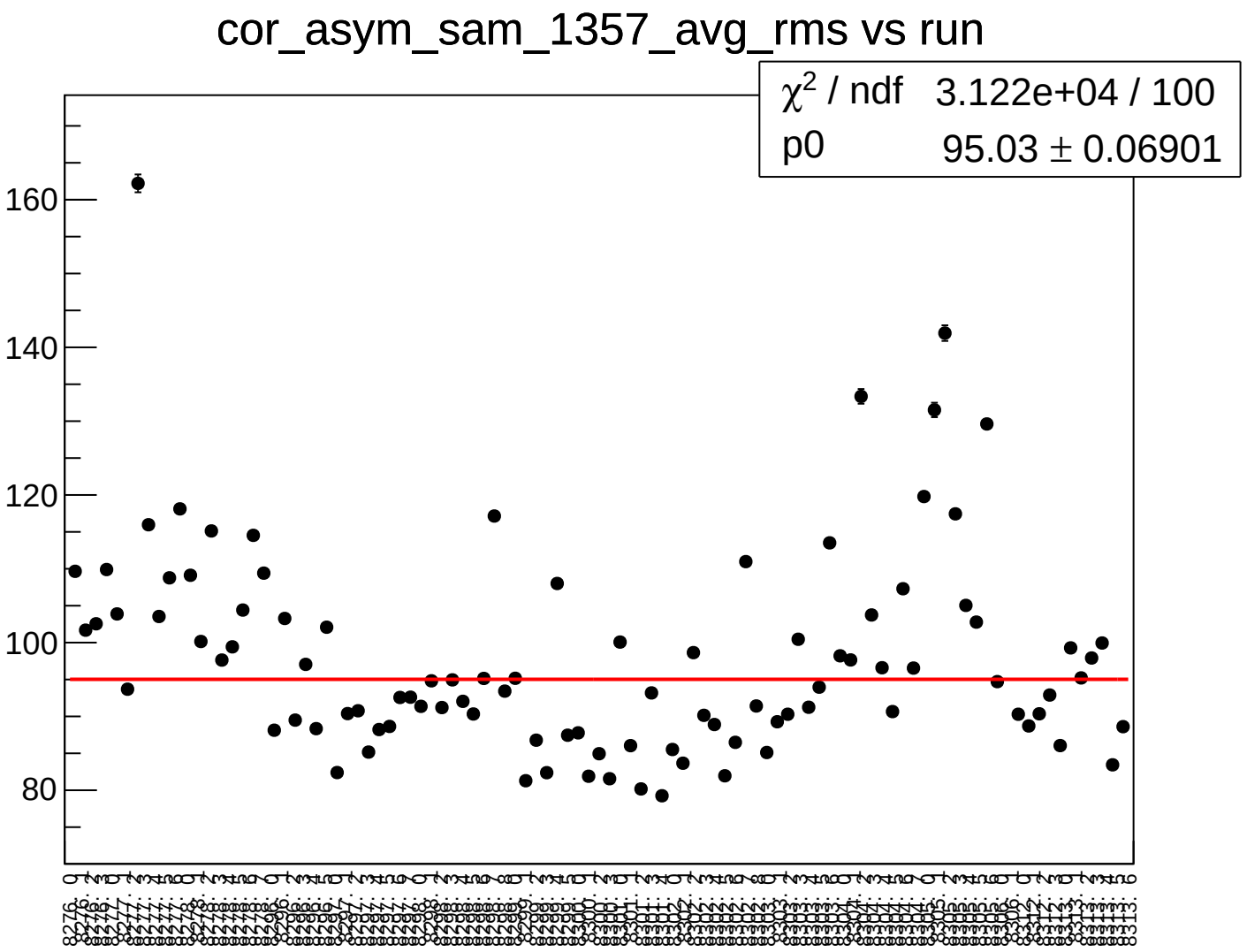

asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 96.52 / 100
p0 −842.5 ± 972.9
pull
Entries 101
Mean −79.08
Std Dev 113.4

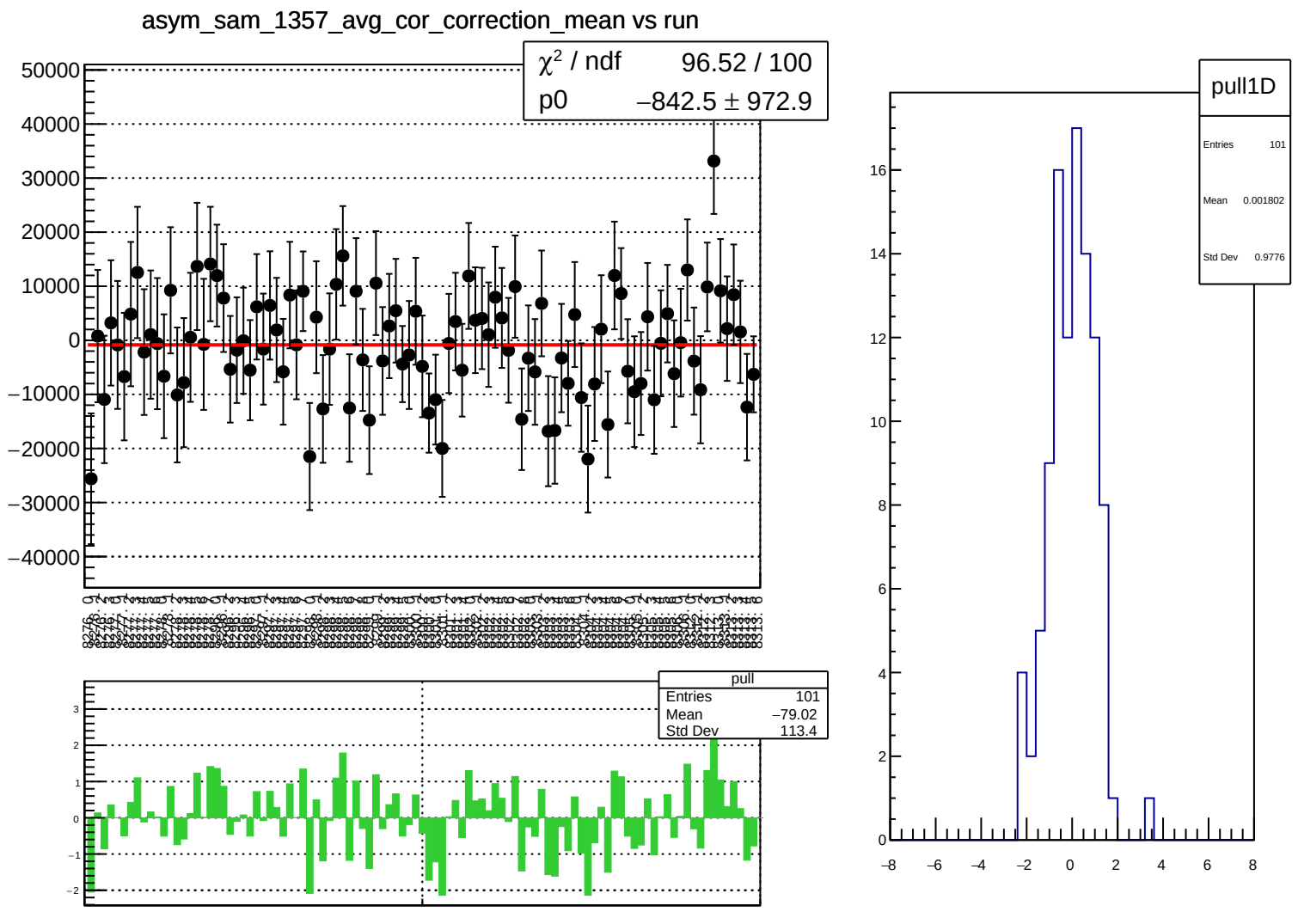

pull1D
Entries 101
Mean 0.001802
Std Dev 0.9776

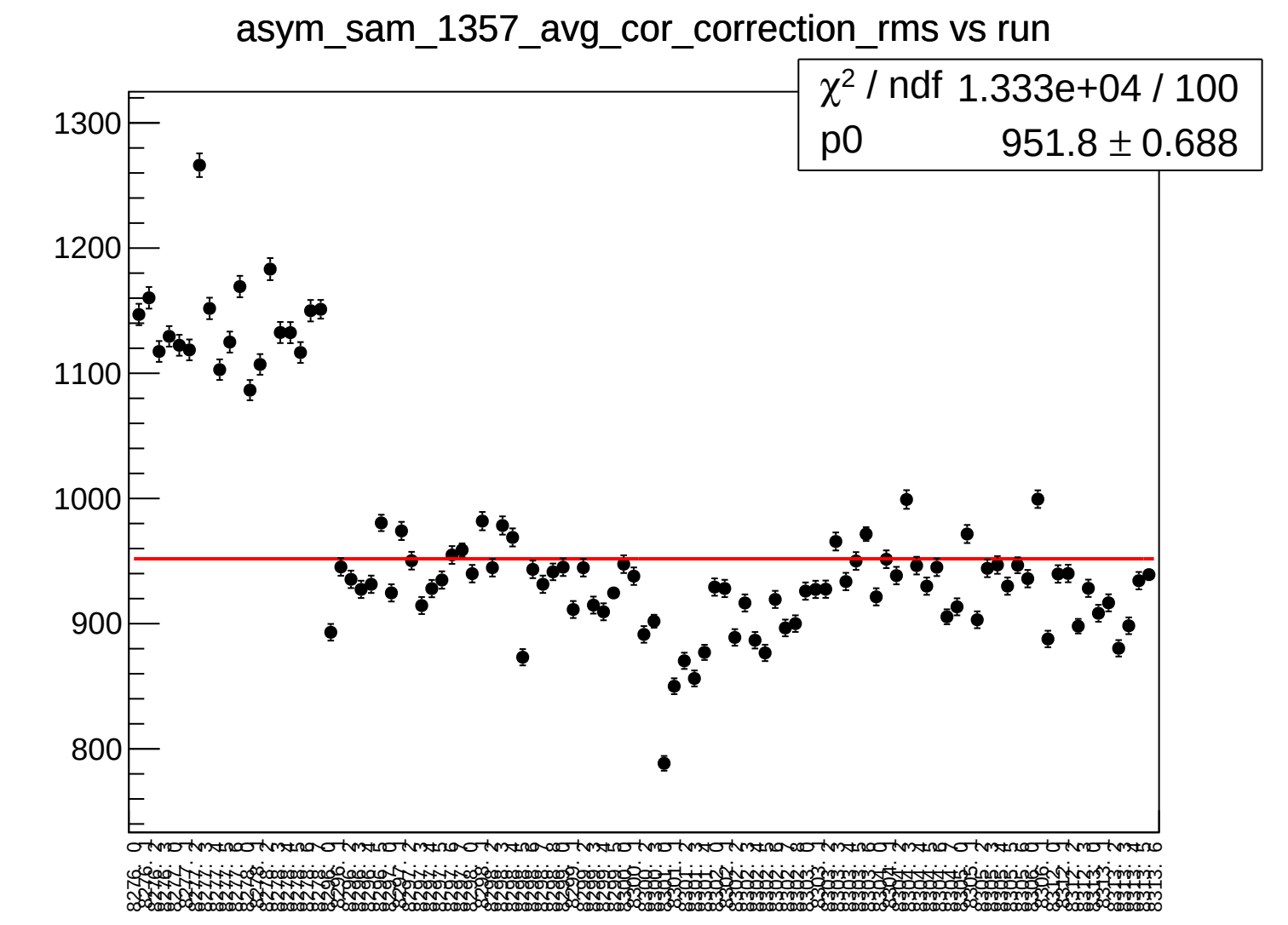

asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 1.333e+04 / 100
p0 951.8 ± 0.688
1300
1200
1100
1000
900
800

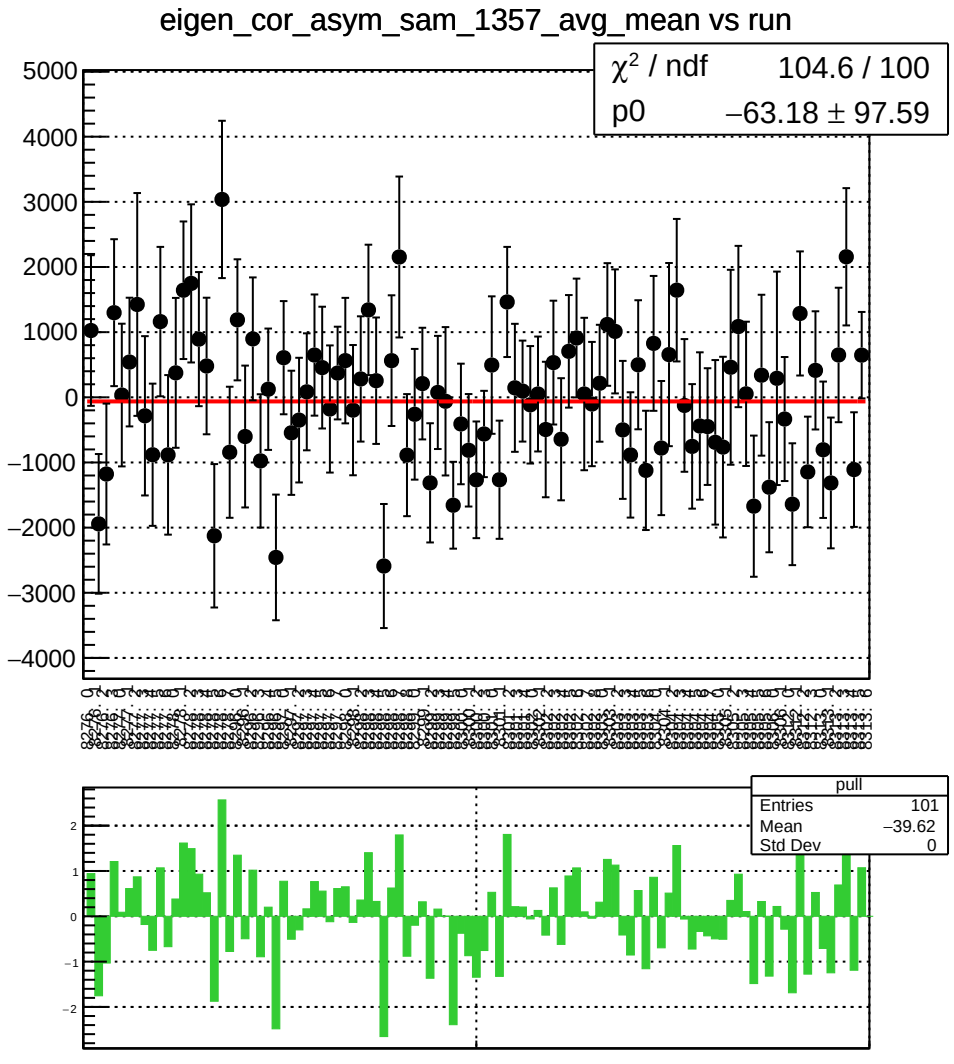

cor_asym_sam_1357_avg_mean vs run
χ² / ndf 104.6 / 100
p0 −63.18 ± 97.59
pull
Entries 101
Mean −39.62
Std Dev 0

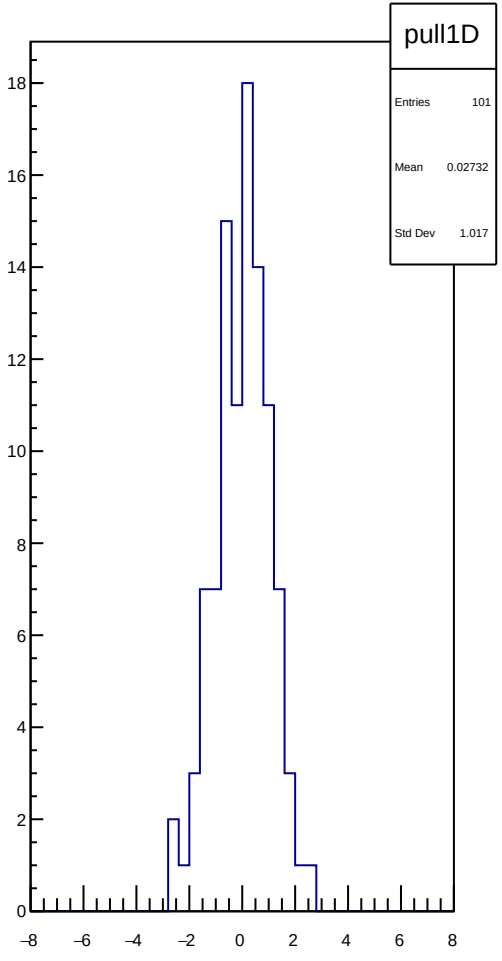

pull1D
Entries 101
Mean 0.02732
Std Dev 1.017

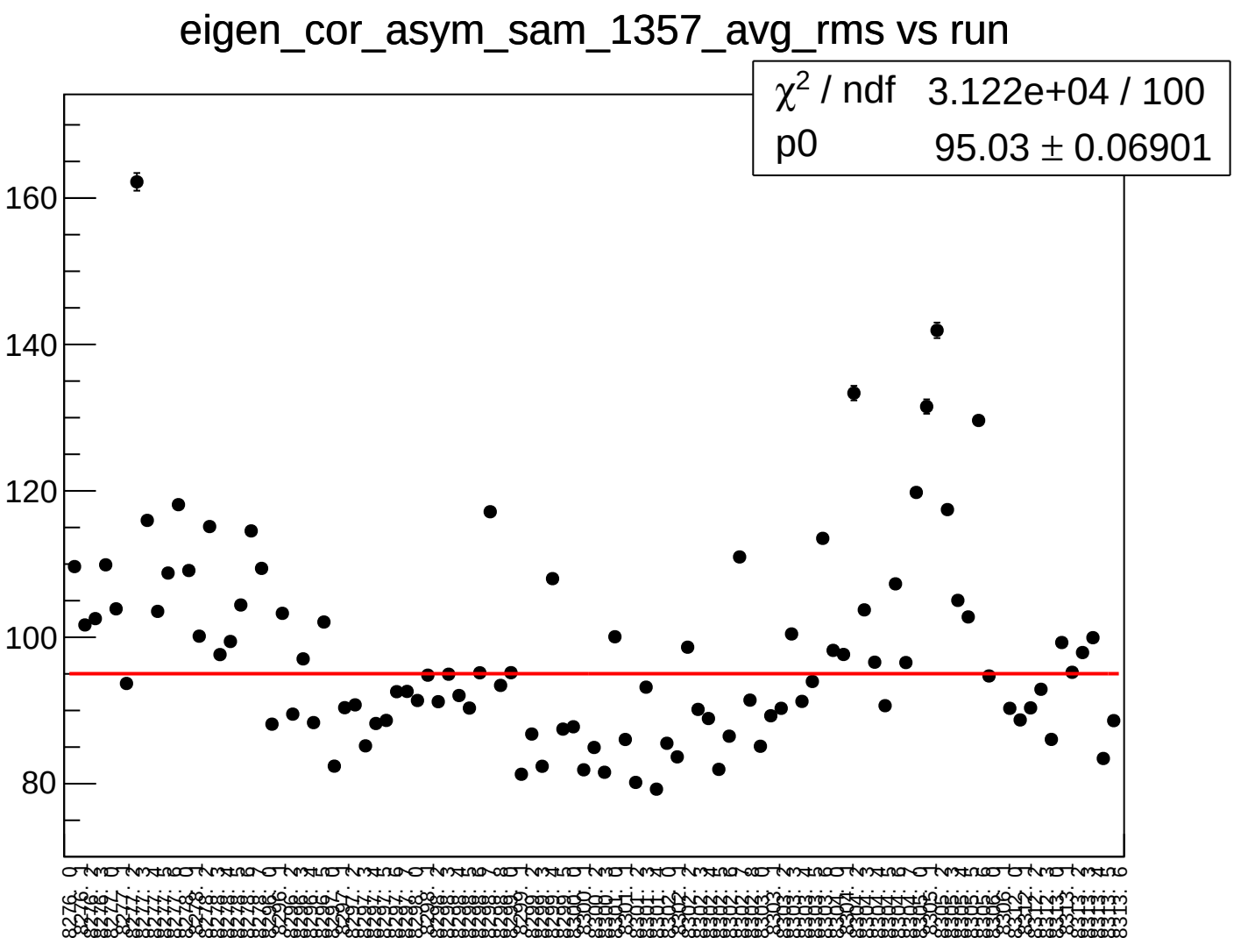

cor_asym_sam_1357_avg_rms vs run
χ^2 / ndf 3.122e+04 / 100
p0 95.03 ± 0.06901
160
140
120
100
80

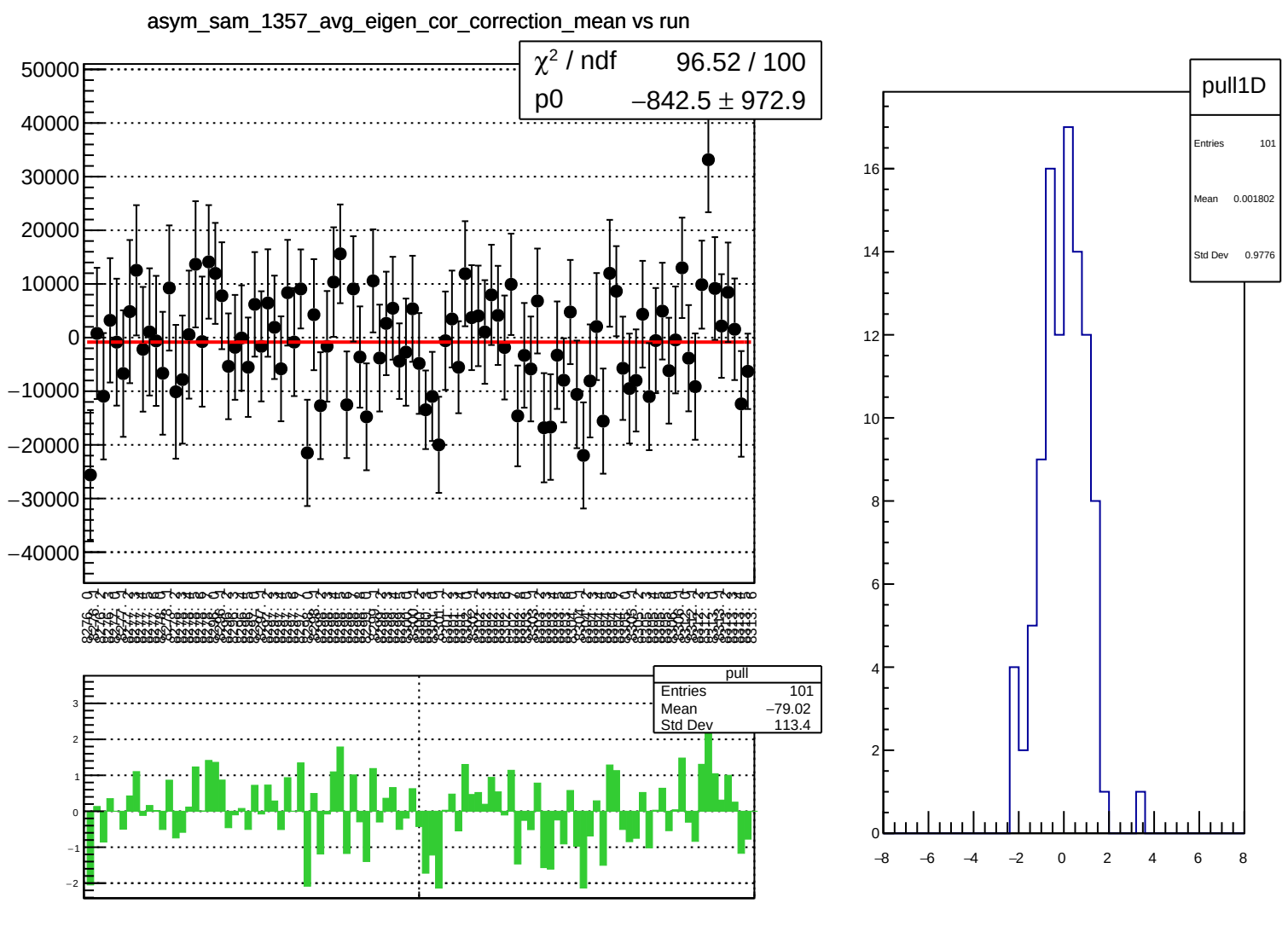

asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 96.52 / 100
p0 −842.5 ± 972.9
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 101
Mean −79.02
Std Dev 113.4
3
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.001802
Std Dev 0.9776
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

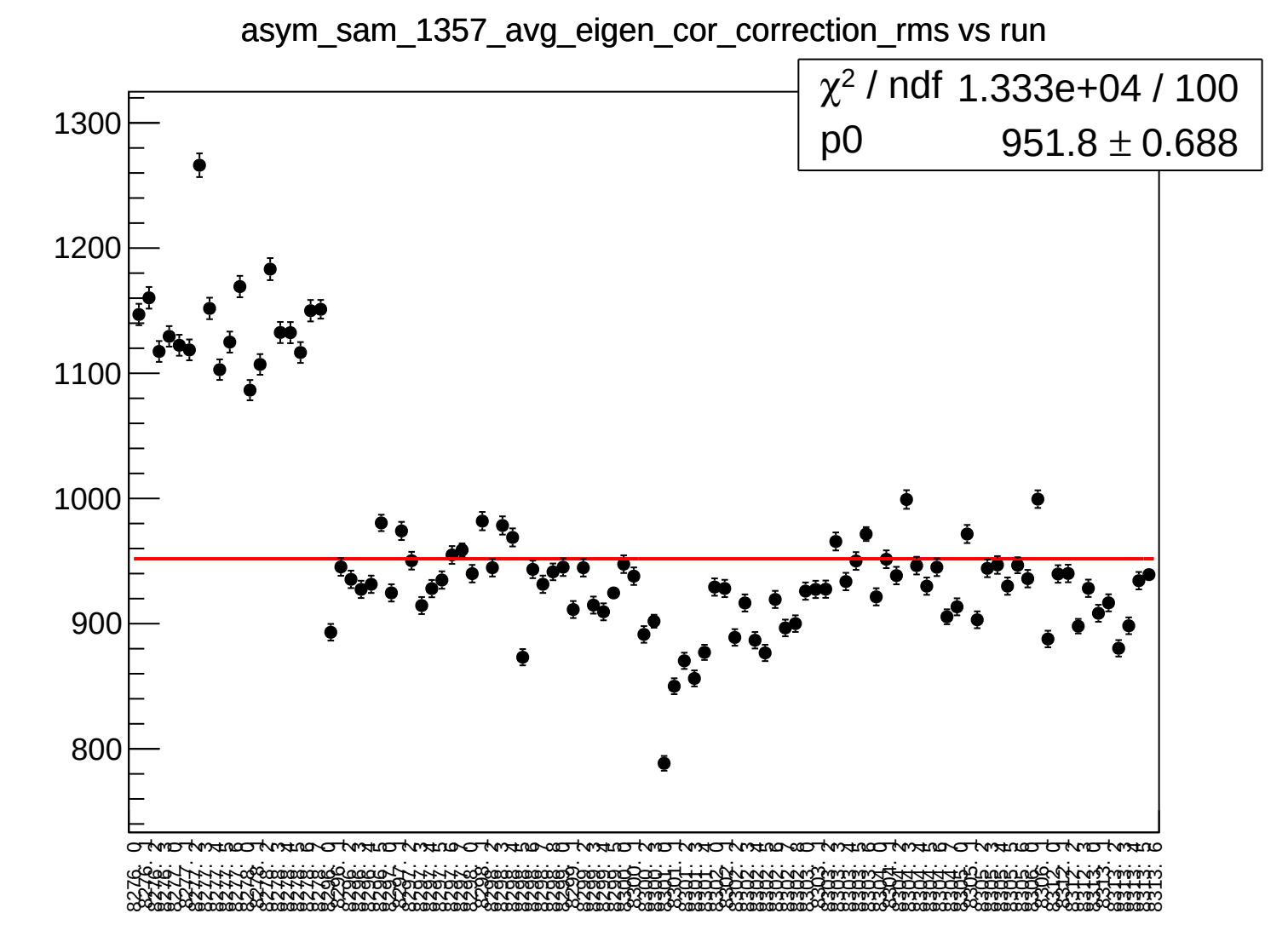

asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 1.333e+04 / 100
p0 951.8 ± 0.688
1300
1200
1100
1000
900
800

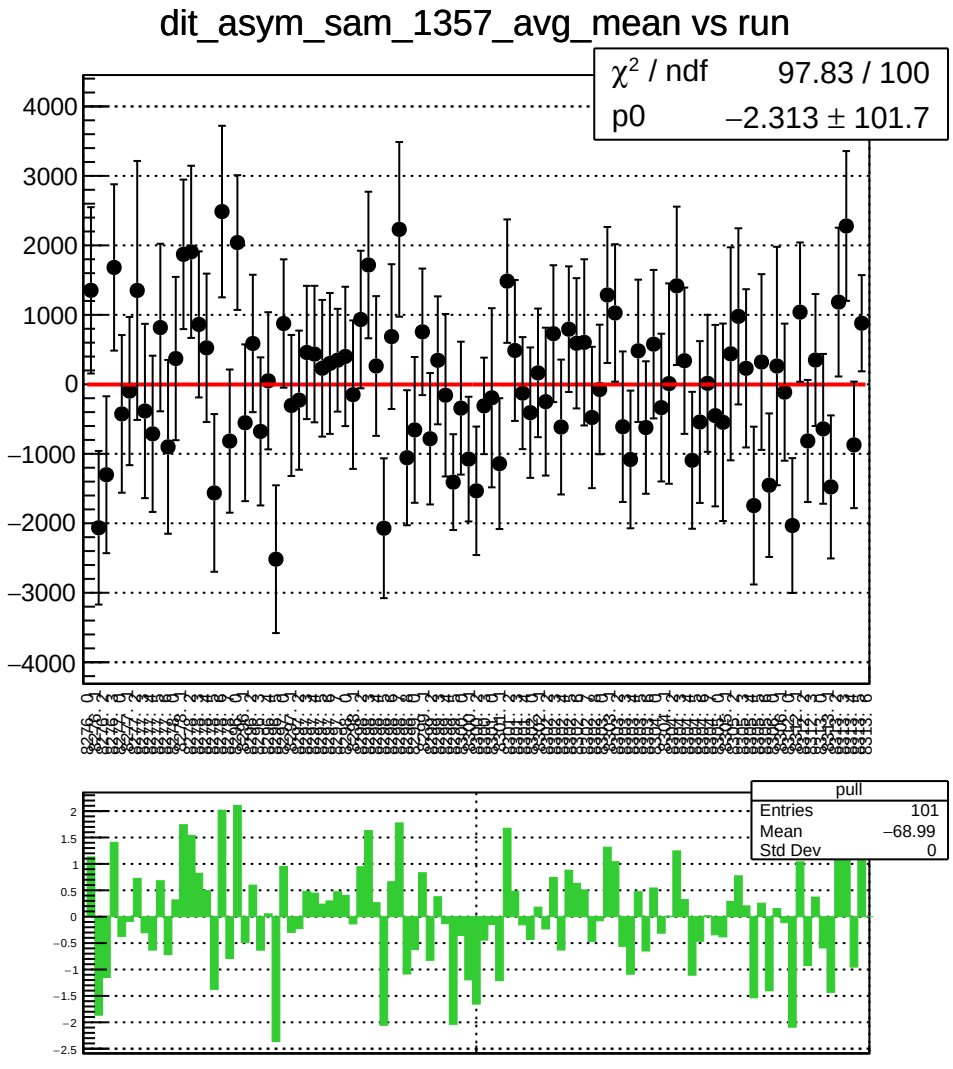

eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 104.6 / 100
p0 −63.18 ± 97.59
pull
Entries 101
Mean −39.62
Std Dev 0

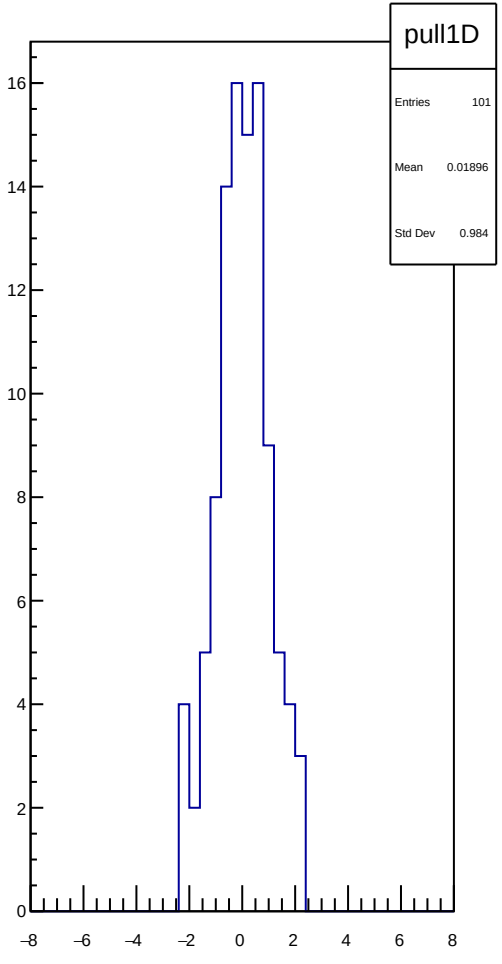

pull1D
Entries 101
Mean 0.02732
Std Dev 1.017

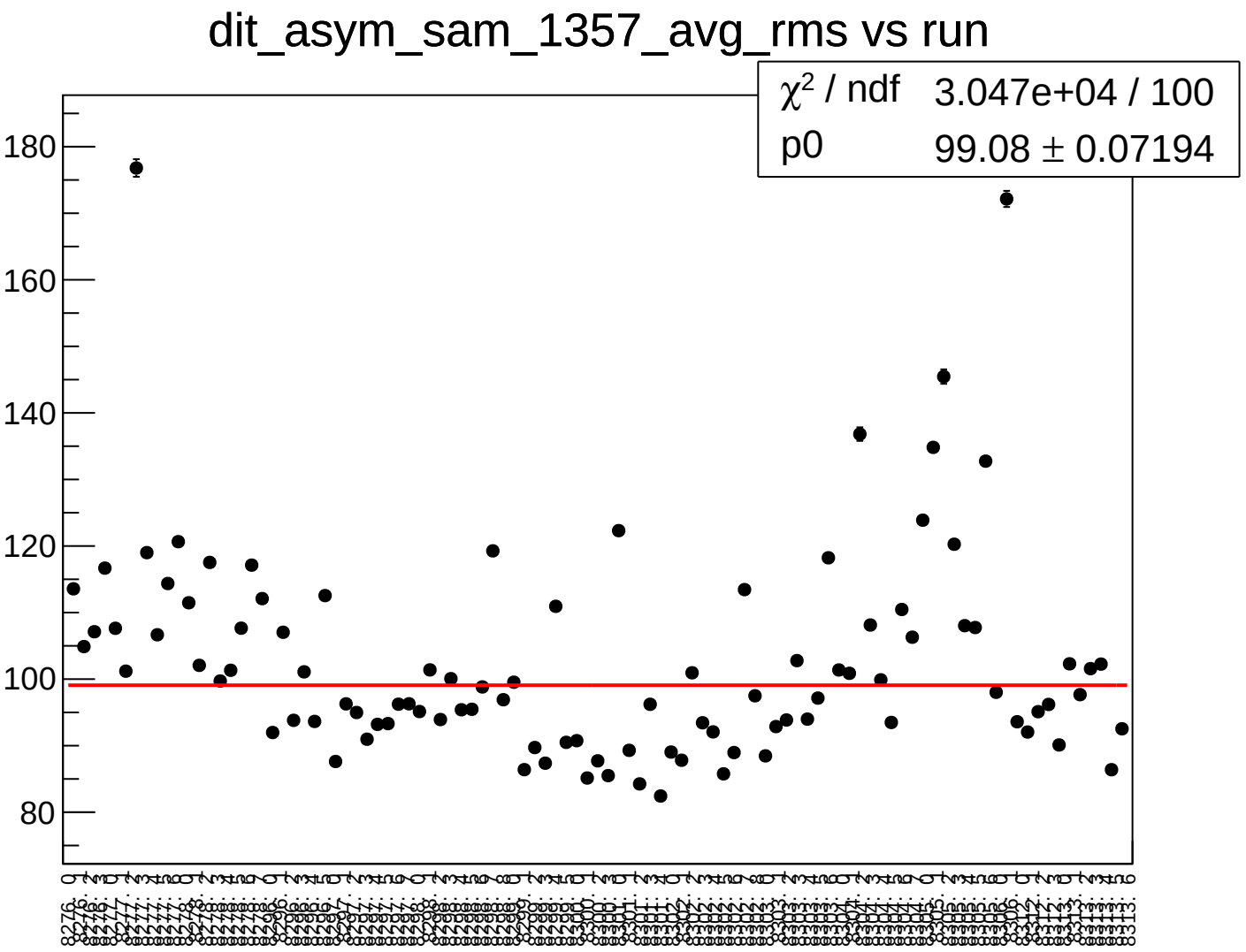

eigen_cor_asym_sam_1357_avg_rms vs run
χ^2 / ndf 3.122e+04 / 100
p0 95.03 ± 0.06901
160
140
120
100
80

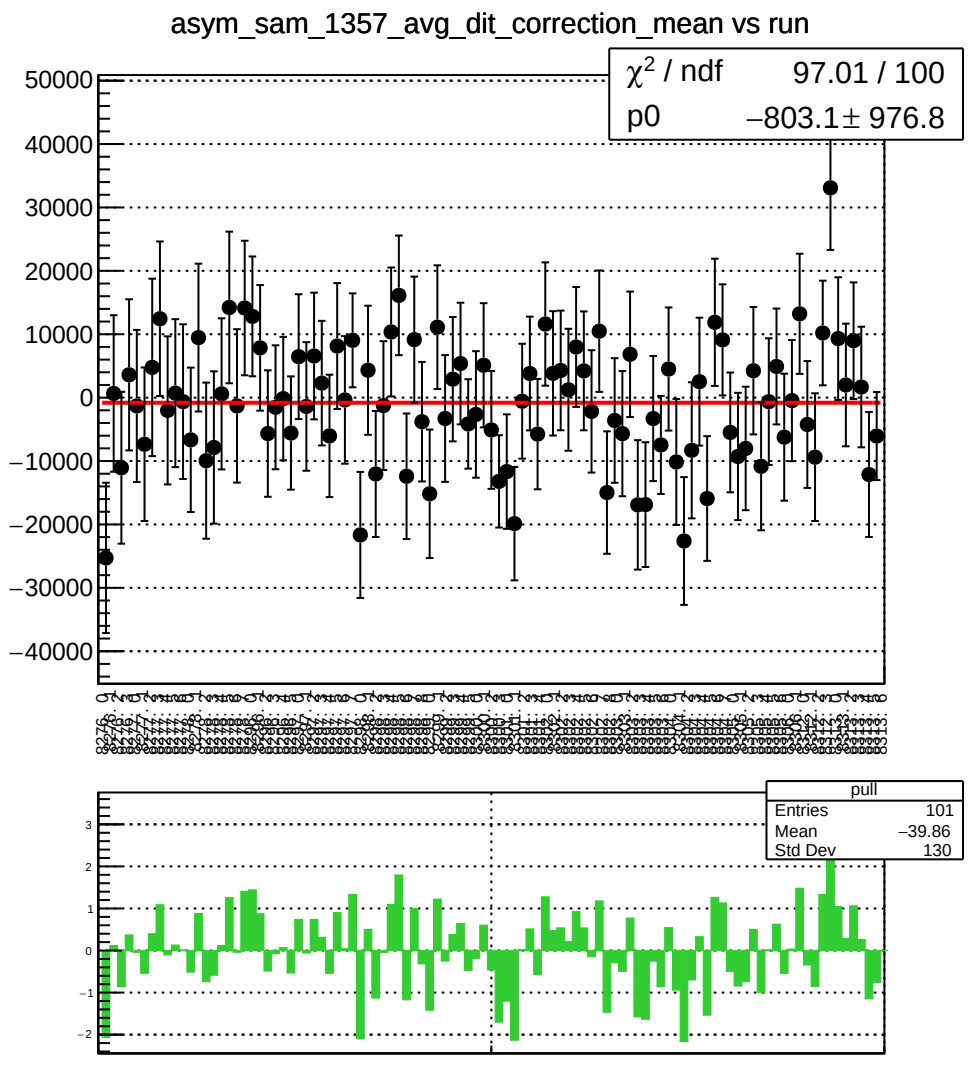

asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 96.52 / 100
p0 −842.5 ± 972.9
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 101
Mean −79.02
Std Dev 113.4
3
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.001802
Std Dev 0.9776
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

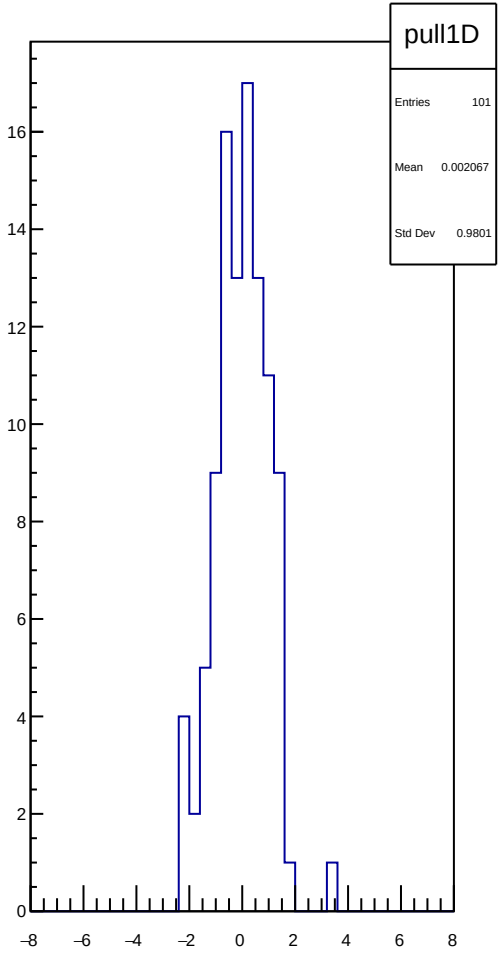

asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.333e+04 / 100
p0 951.8 ± 0.688
1300
1200
1100
1000
900
800

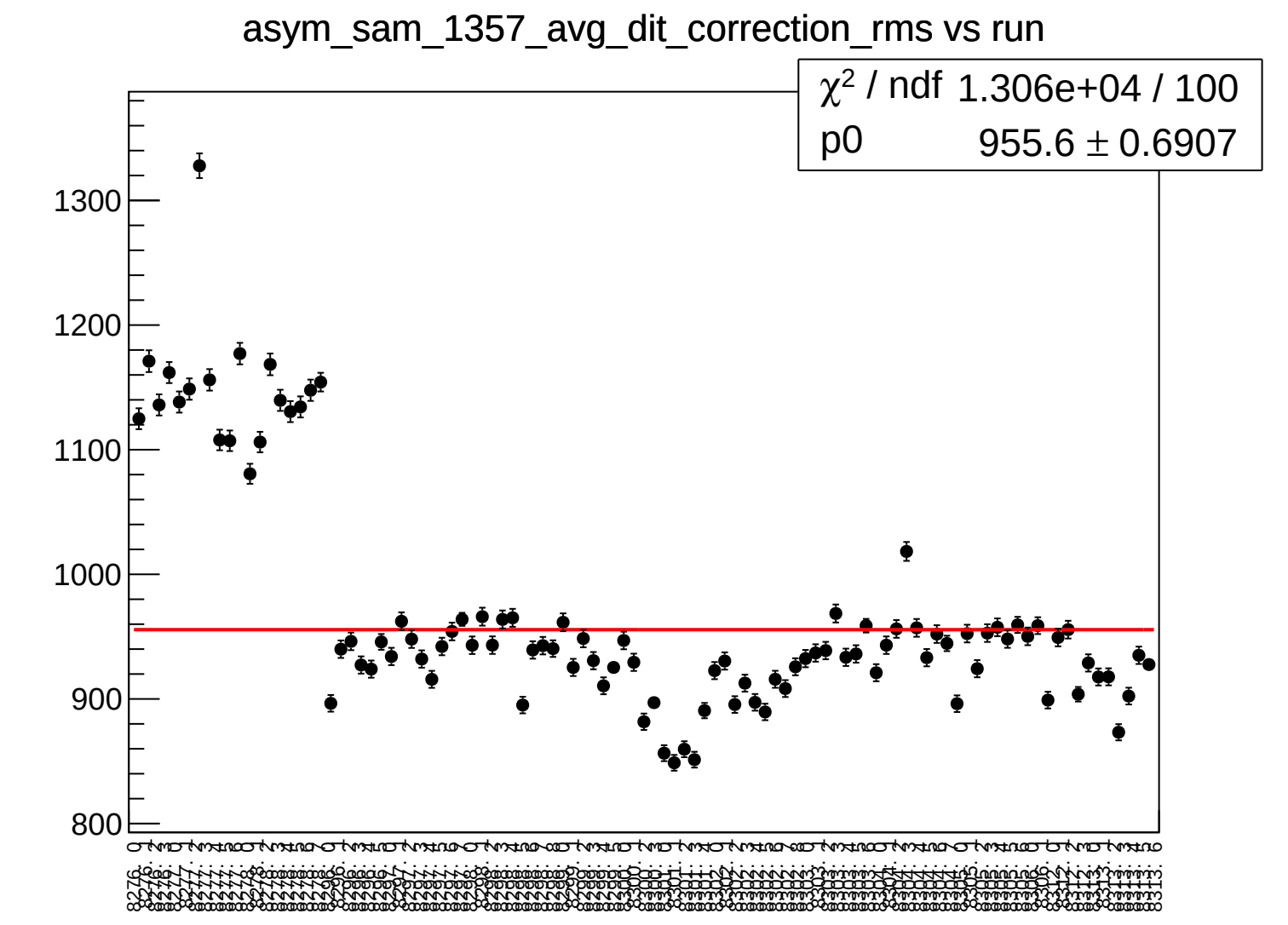

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 97.83 / 100
p0 −2.313 ± 101.7
pull
Entries 101
Mean −68.99
Std Dev 0

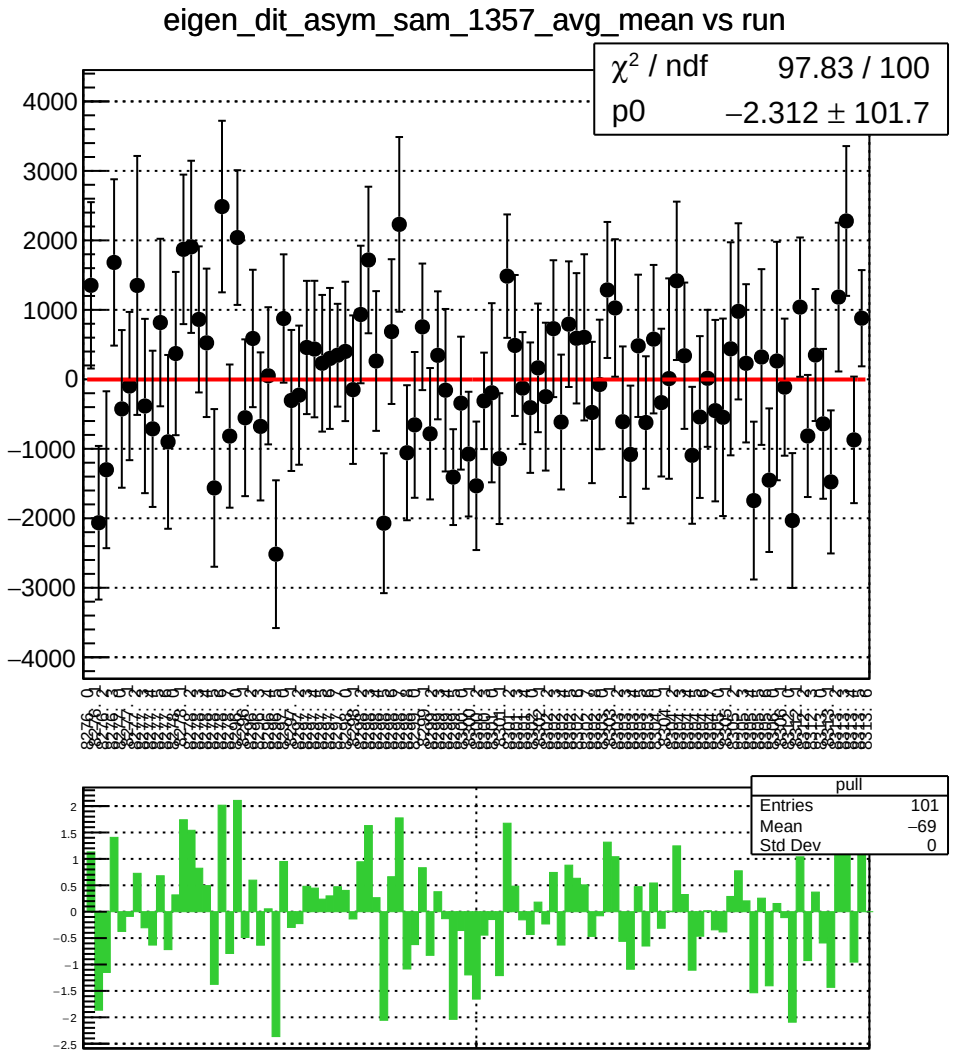

pull1D
Entries 101
Mean 0.01896
Std Dev 0.984

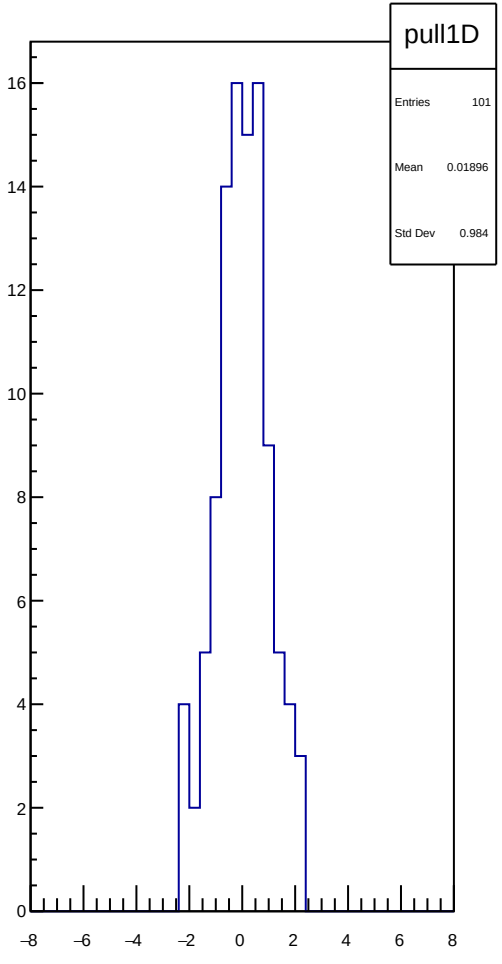

dit_asym_sam_1357_avg_rms vs run
χ² / ndf 3.047e+04 / 100
p0 99.08 ± 0.07194
180
160
140
120
100
80

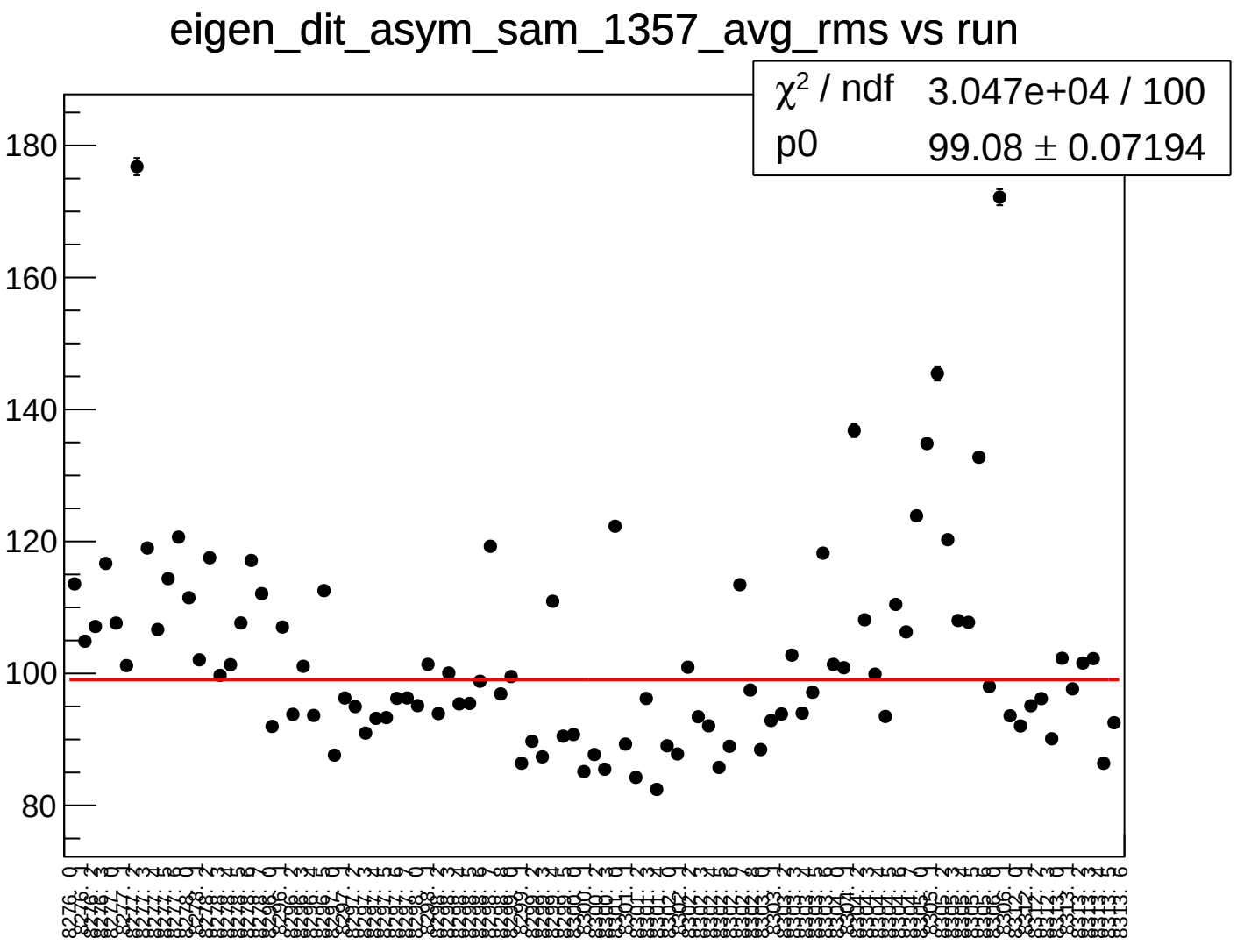

asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 97.01 / 100
p0 −803.1 ± 976.8
pull
Entries 101
Mean −39.86
Std Dev 130

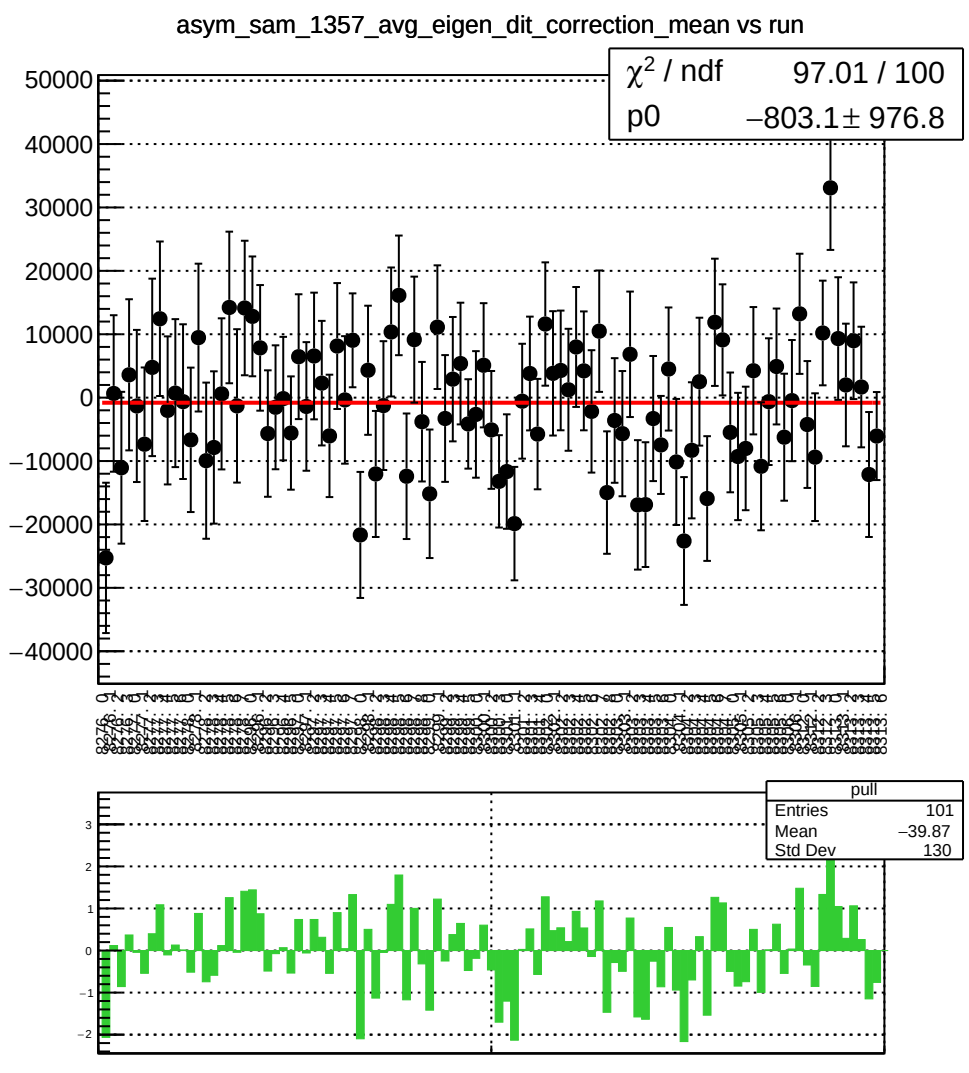

pull1D
Entries 101
Mean 0.002067
Std Dev 0.9801

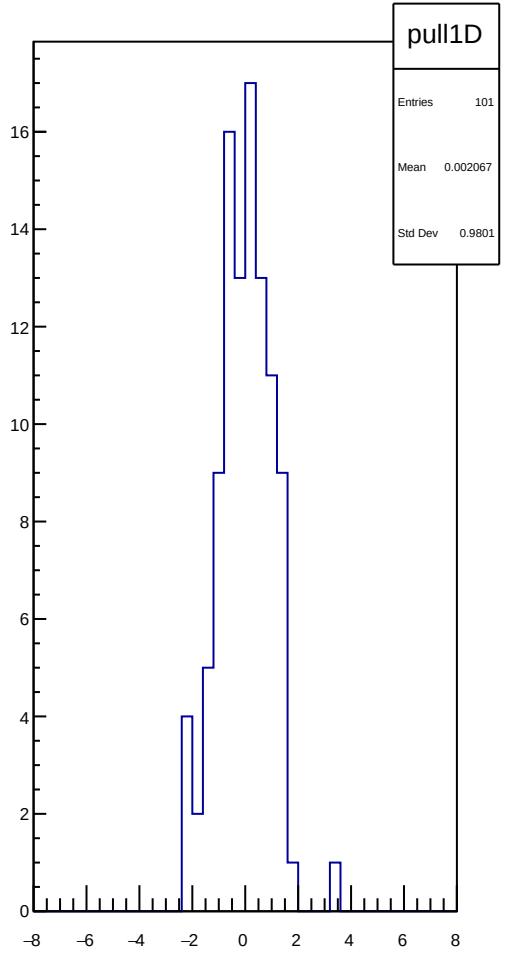

asym_sam_1357_avg_dit_correction_rms vs run
χ² / ndf 1.306e+04 / 100
p0 955.6 ± 0.6907
1300
1200
1100
1000
900
800

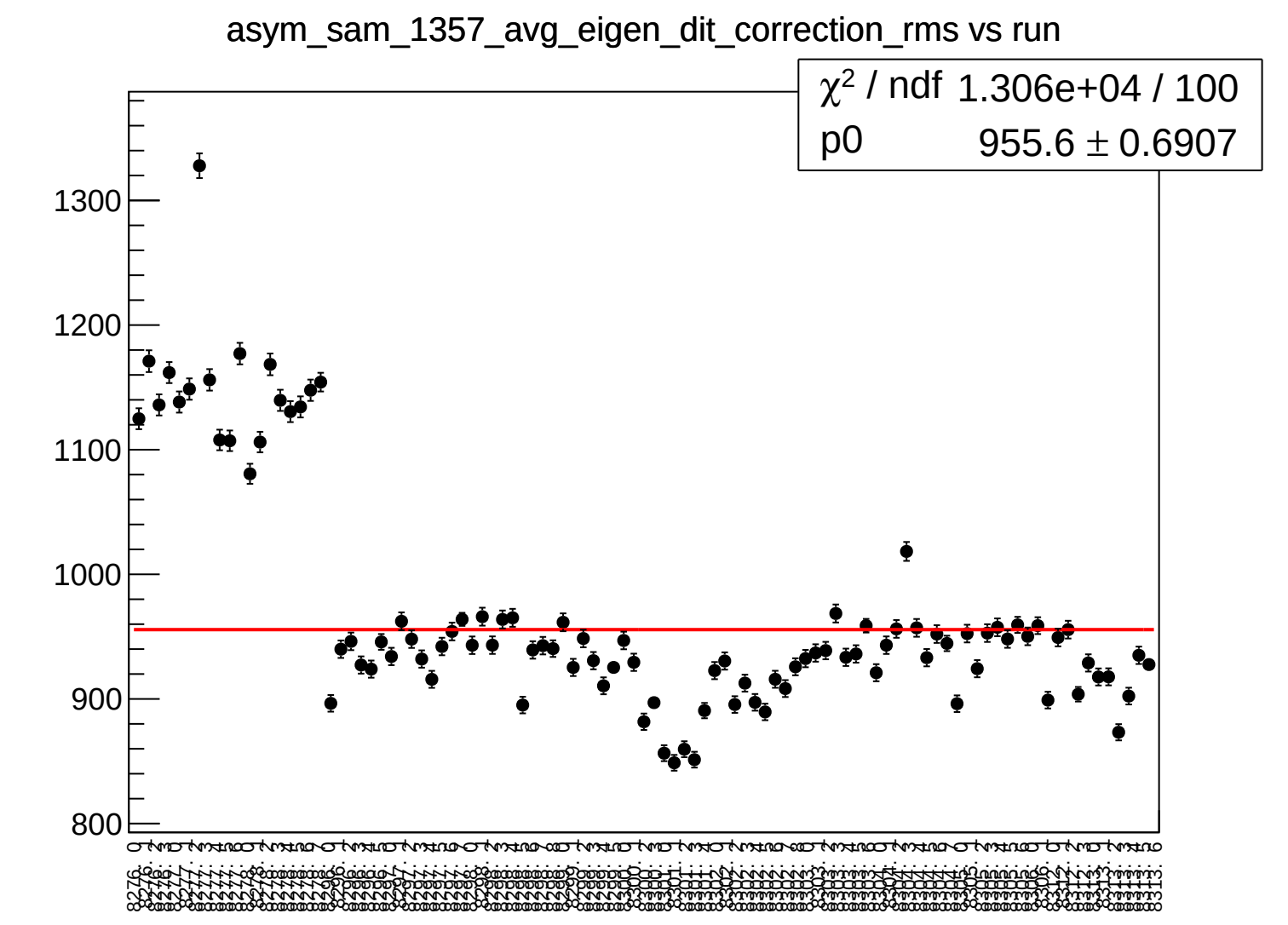

eigen_dit_asym_sam_1357_avg_mean vs run
χ² / ndf 97.83 / 100
p0 −2.312 ± 101.7
pull
Entries 101
Mean −69
Std Dev 0

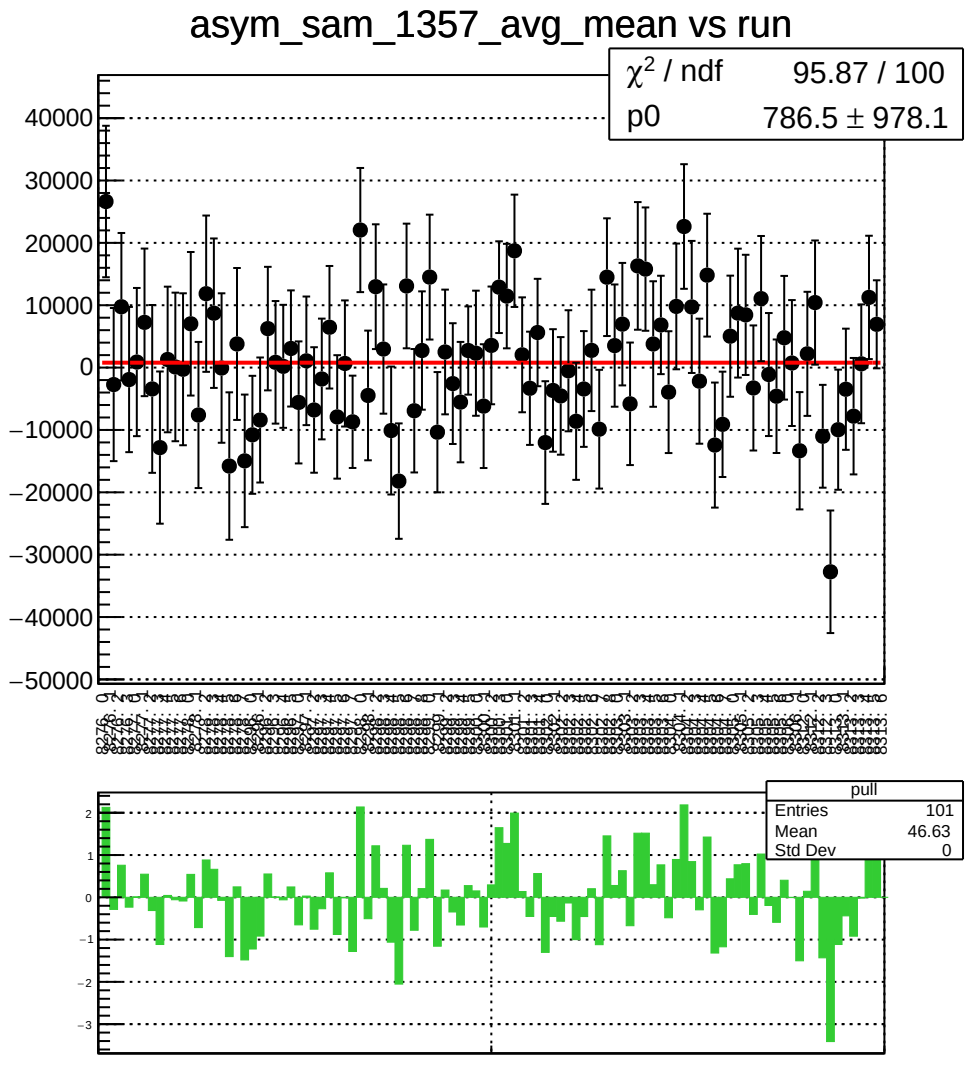

pull1D
Entries 101
Mean 0.01896
Std Dev 0.984

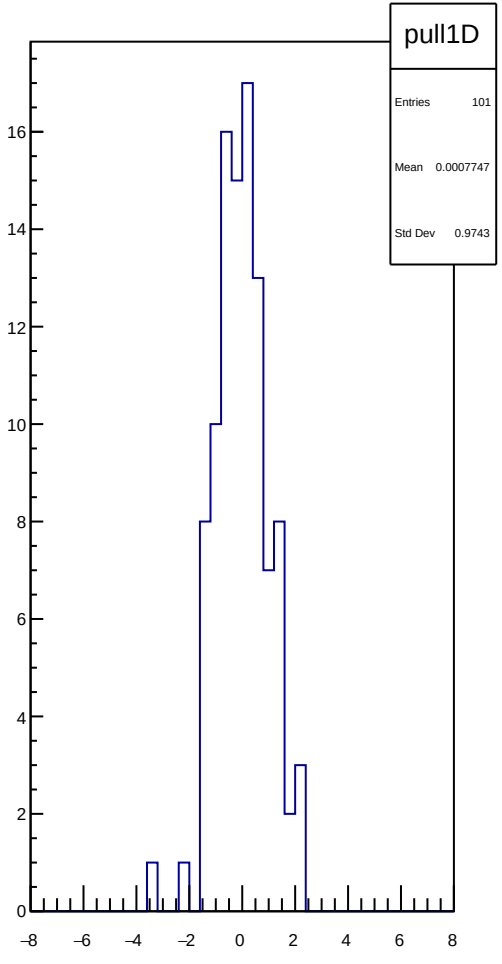

eigen_dit_asym_sam_1357_avg_rms vs run
χ² / ndf 3.047e+04 / 100
p0 99.08 ± 0.07194
180
160
140
120
100
80

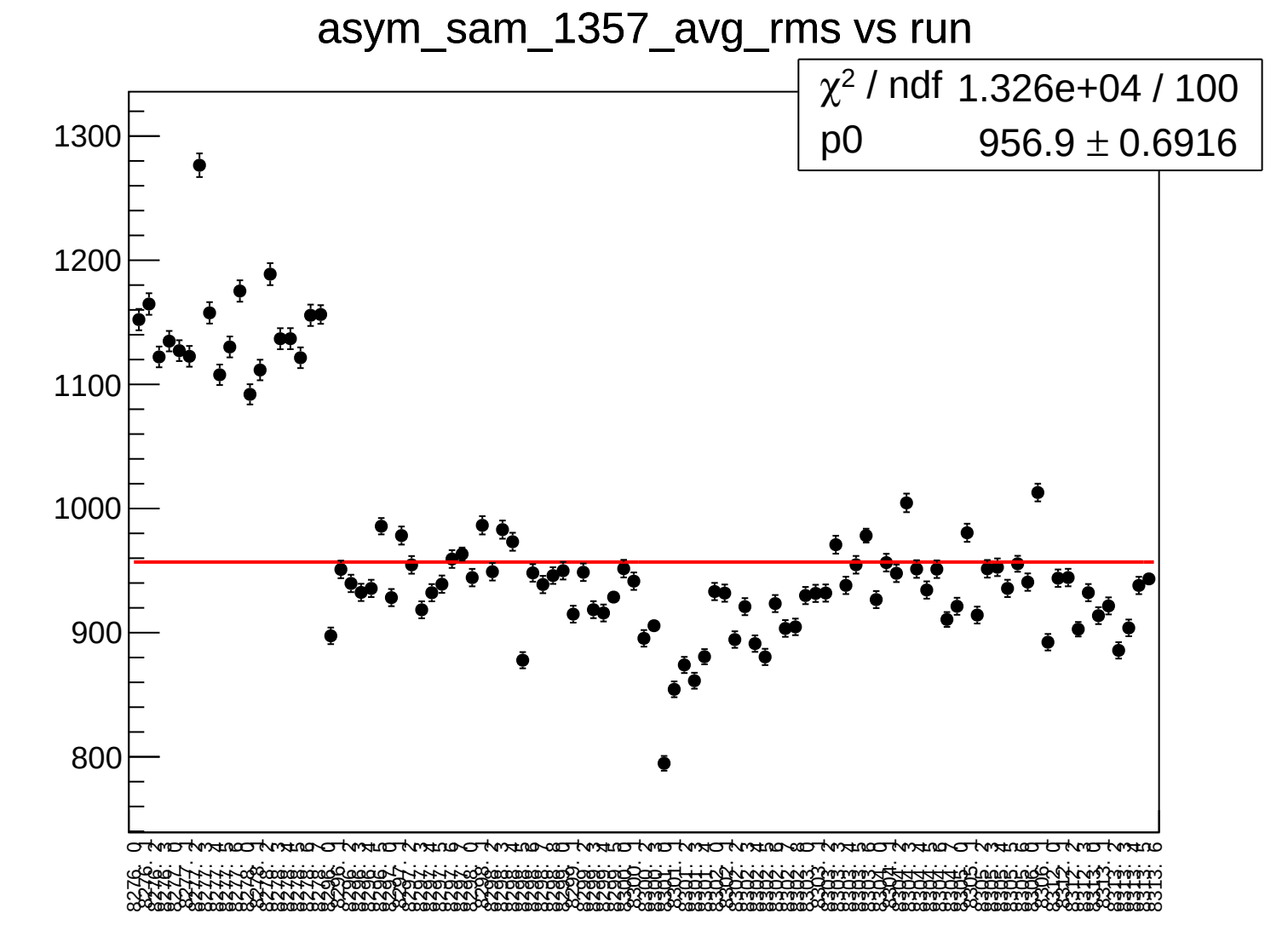

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 97.01 / 100
p0 −803.1 ± 976.8
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 101
Mean −39.87
Std Dev 130
3
2
1
0
−1
−2

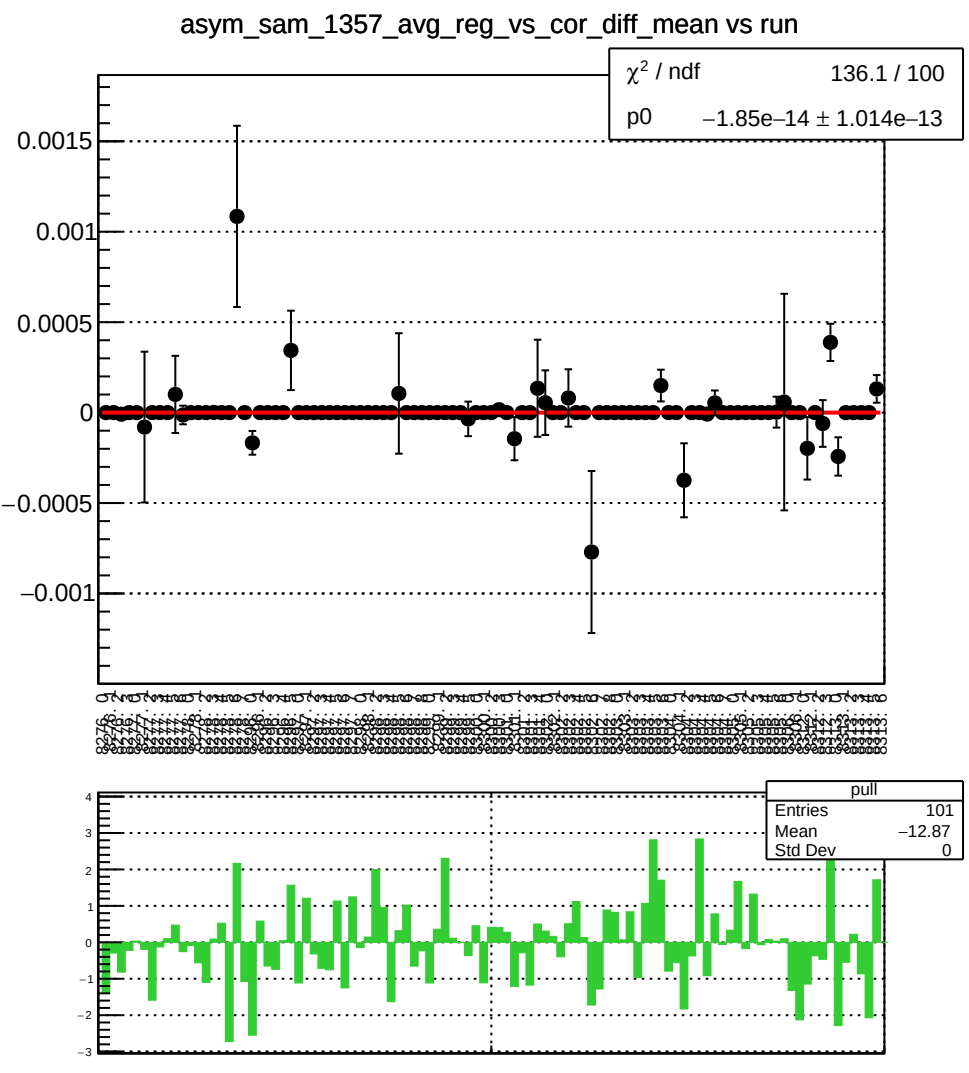

pull1D
Entries 101
Mean 0.002067
Std Dev 0.9801
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

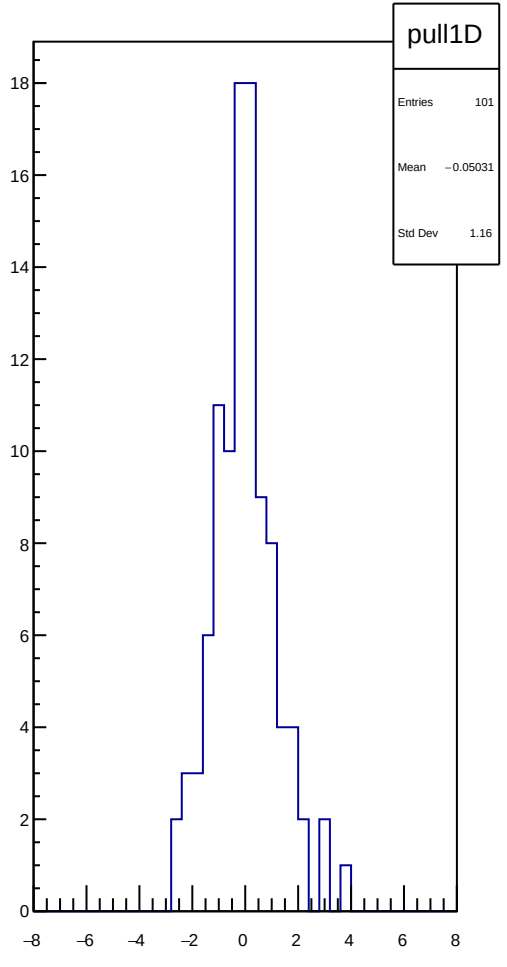

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.306e+04 / 100
p0 955.6 ± 0.6907
1300
1200
1100
1000
900
800

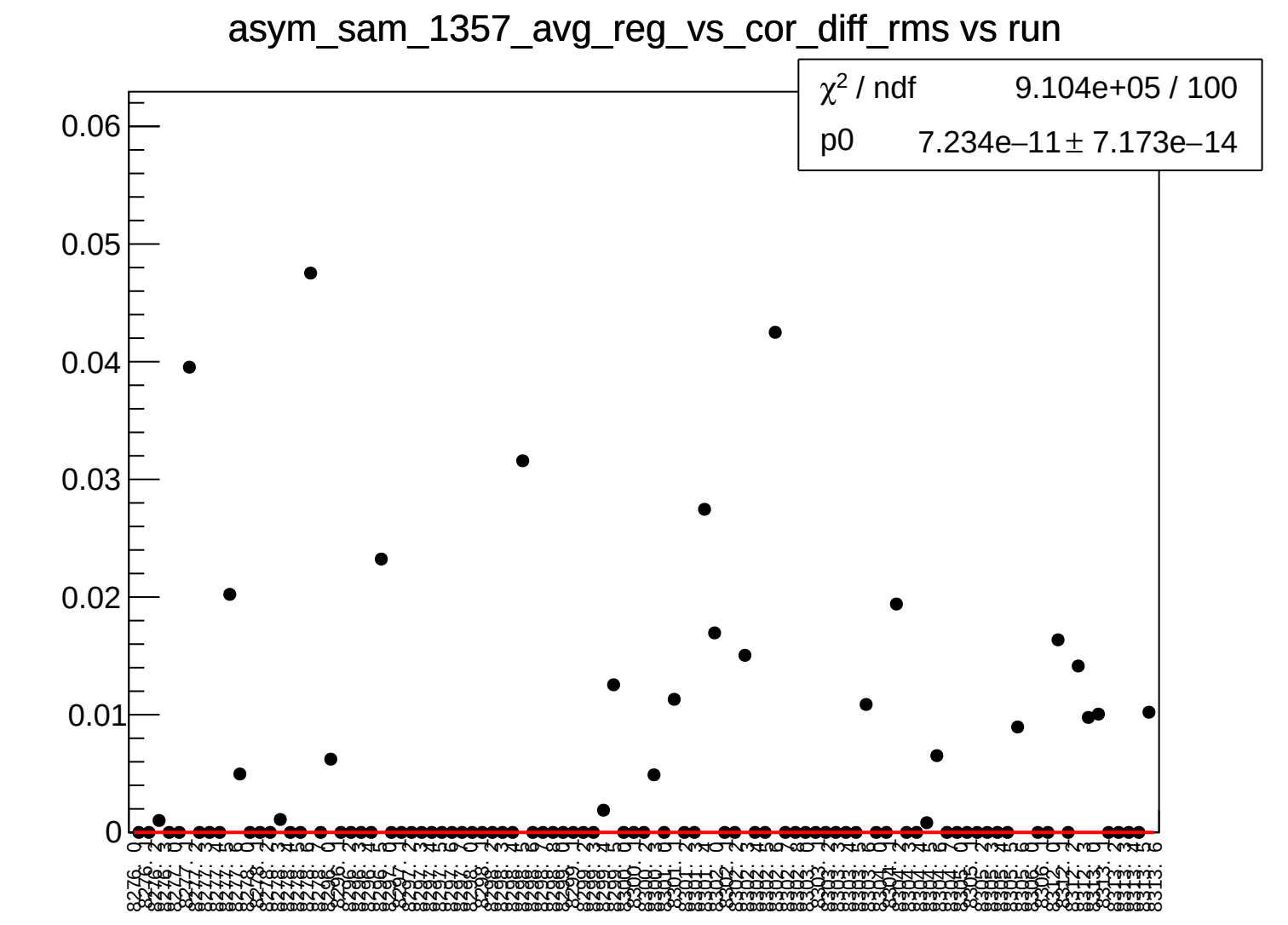

asym_sam_1357_avg_mean vs run
χ^2 / ndf 95.87 / 100
p0 786.5 ± 978.1
pull
Entries 101
Mean 46.63
Std Dev 0

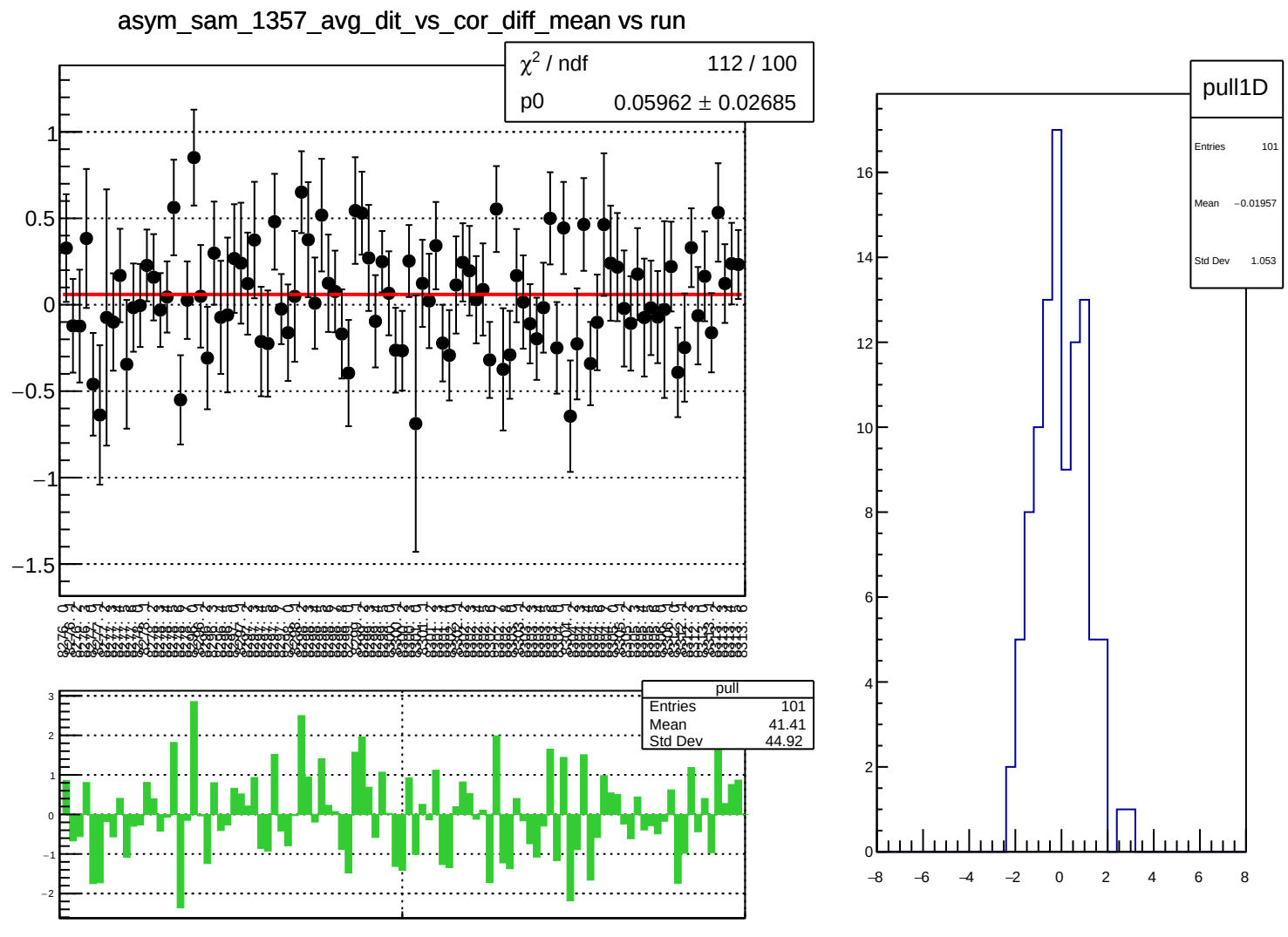

pull1D
Entries 101
Mean 0.0007747
Std Dev 0.9743

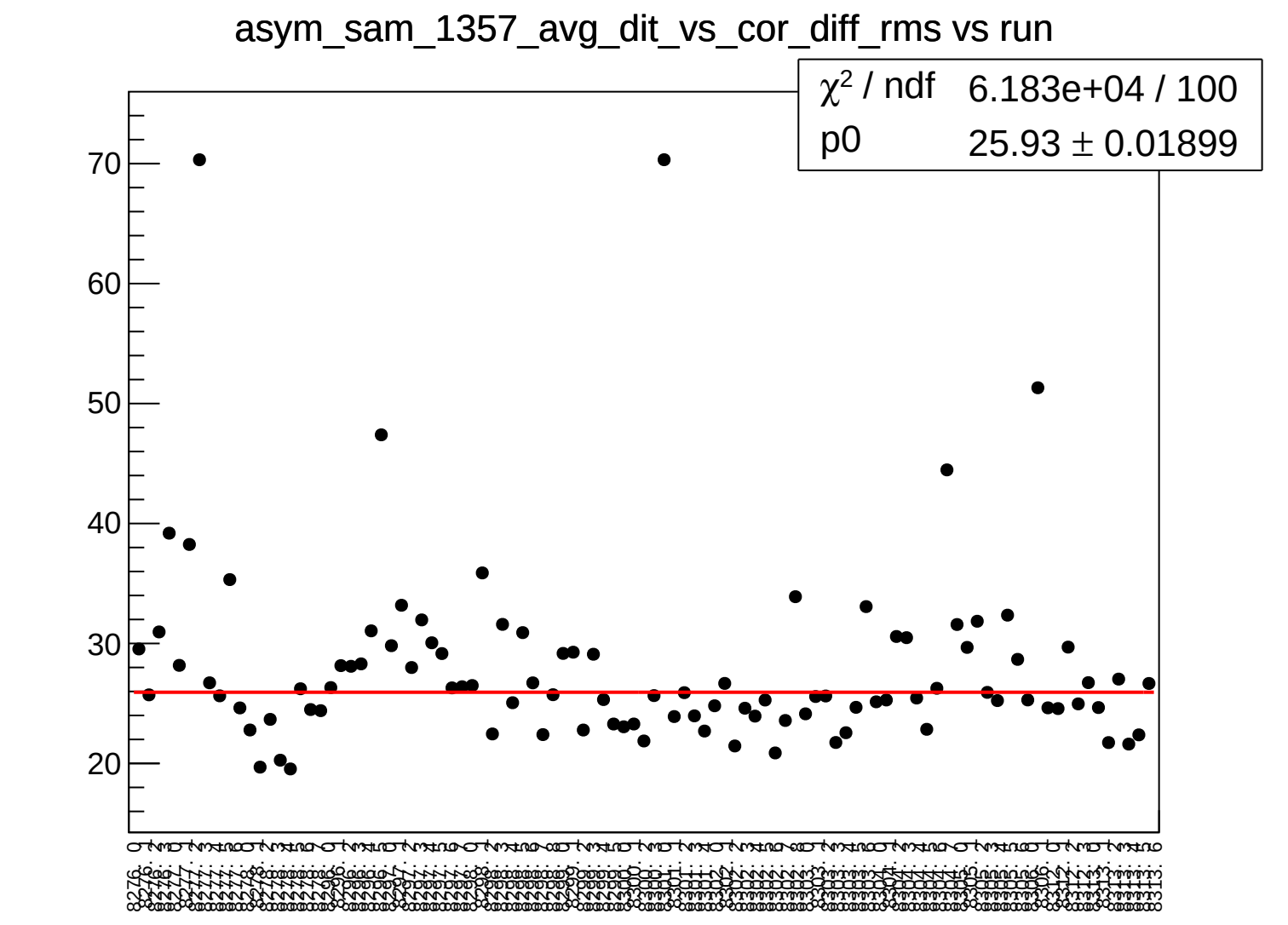

asym_sam_1357_avg_rms vs run
χ² / ndf 1.326e+04 / 100
p0 956.9 ± 0.6916
1300
1200
1100
1000
900
800

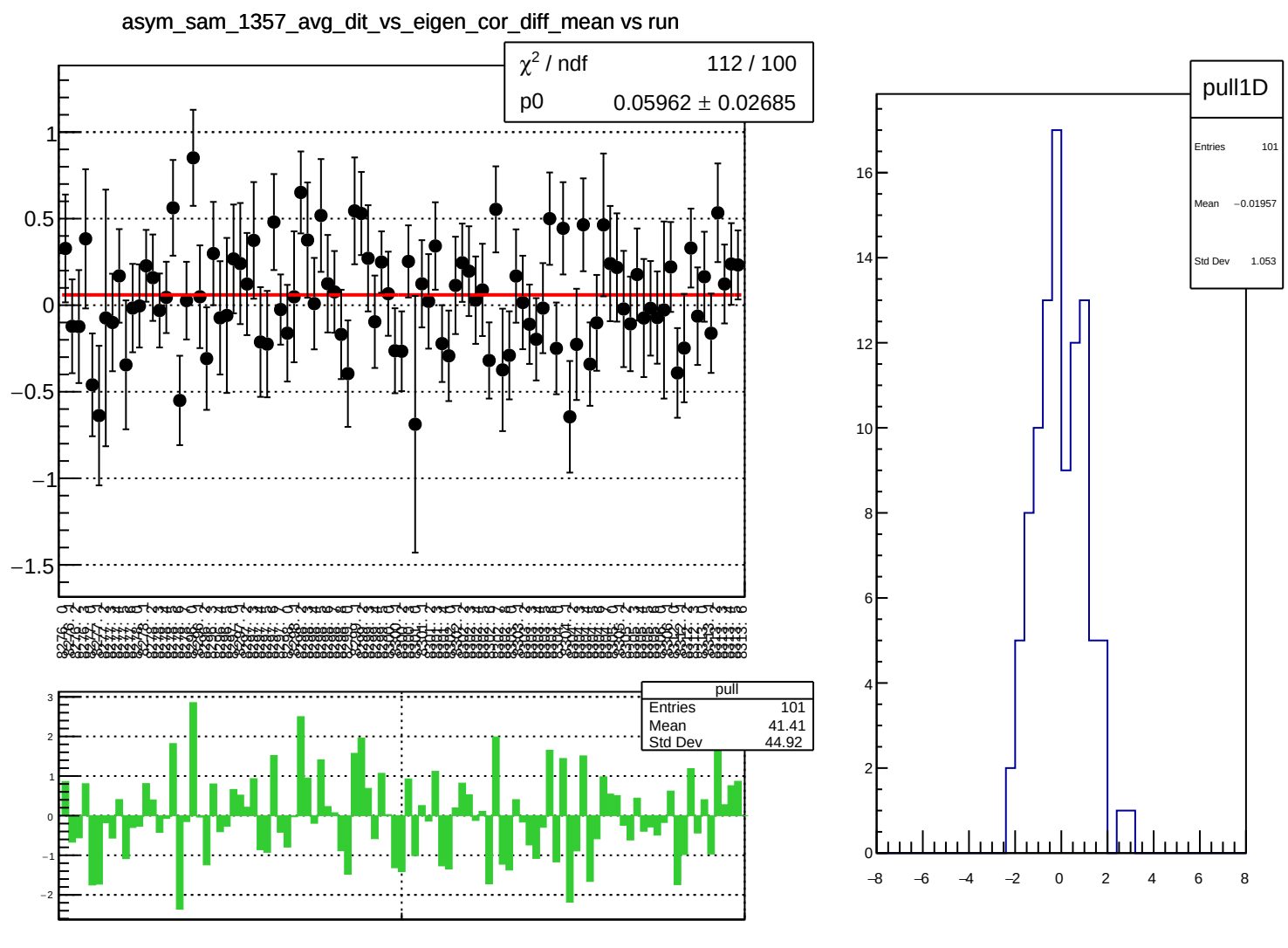

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 136.1 / 100
p0 −1.85e−14 ± 1.014e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 101
Mean −12.87
Std Dev 0
4
3
2
1
0
−1
−2
−3

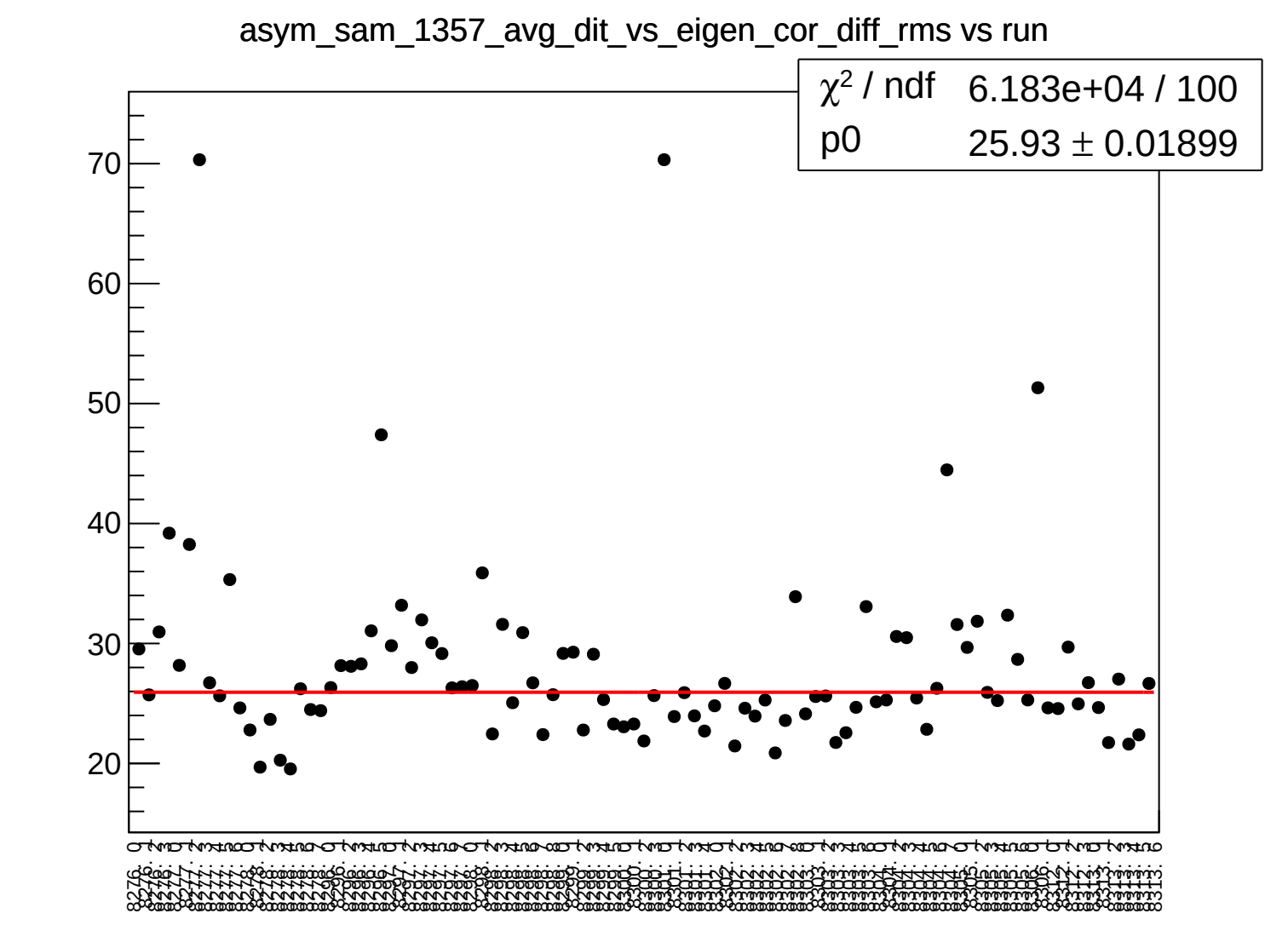

pull1D
Entries 101
Mean −0.05031
Std Dev 1.16
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

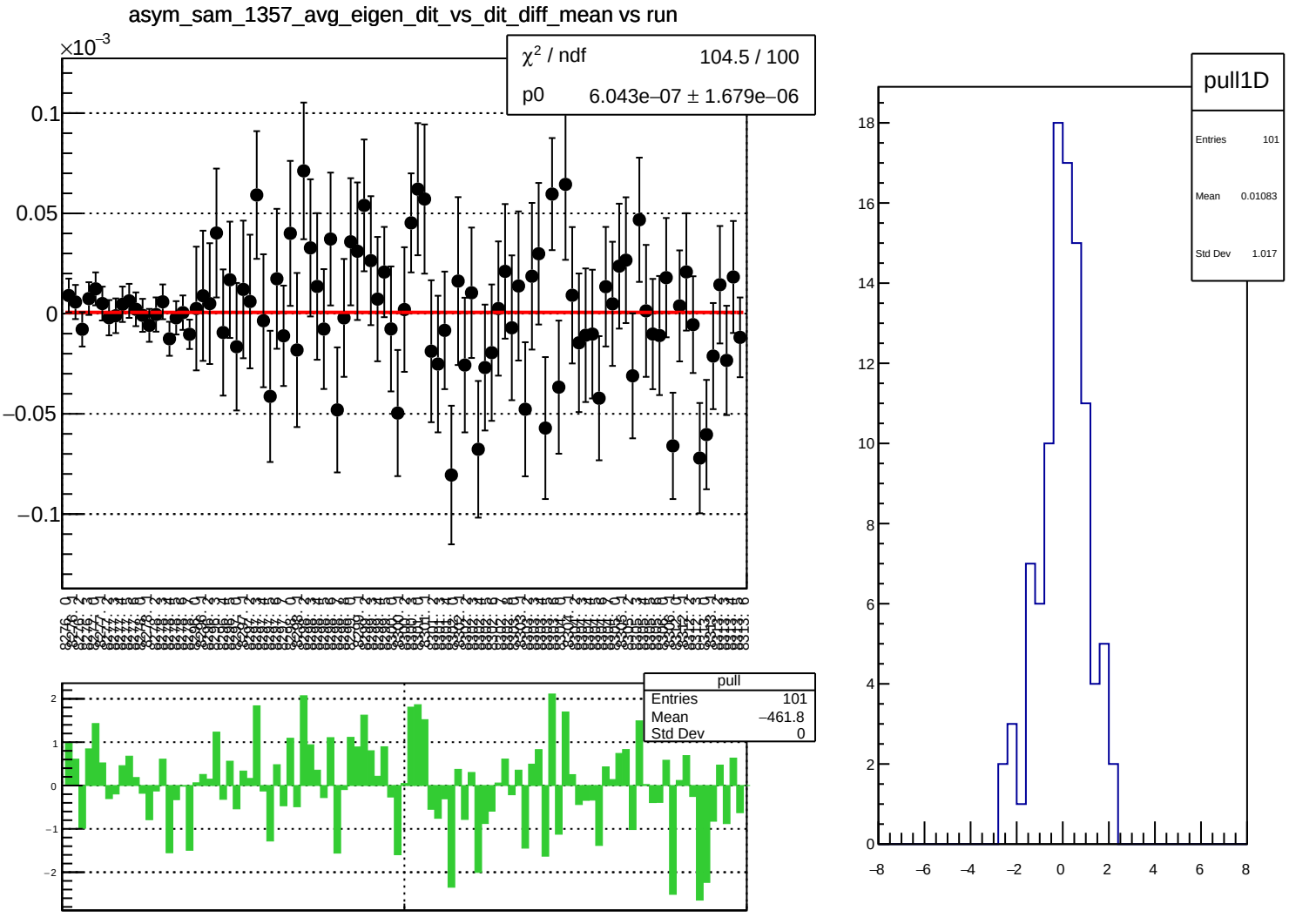

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.104e+05 / 100
p0 7.234e−11 ± 7.173e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

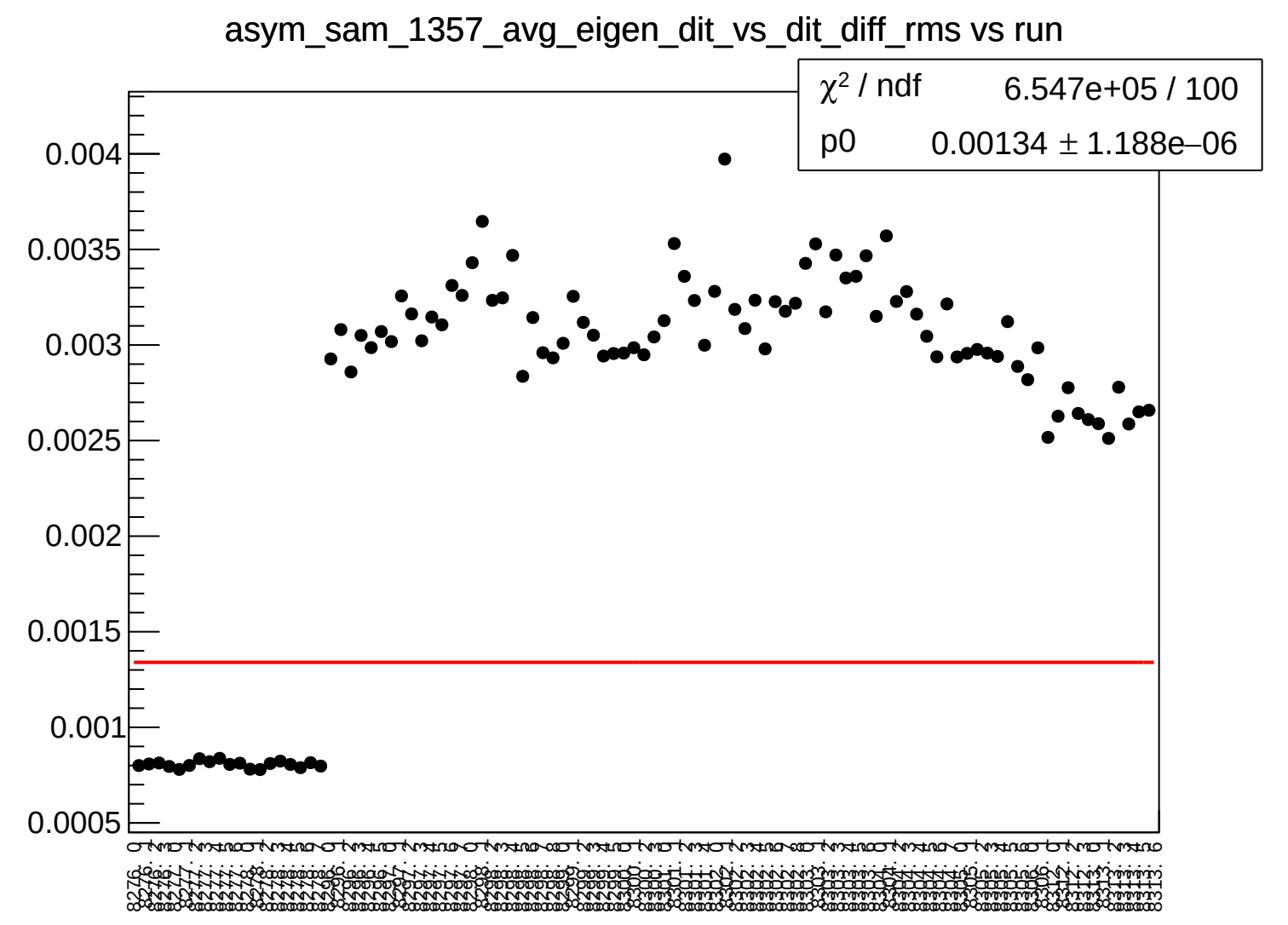

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 112 / 100
p0 0.05962 ± 0.02685
pull
Entries 101
Mean 41.41
Std Dev 44.92
pull1D
Entries 101
Mean −0.01957
Std Dev 1.053

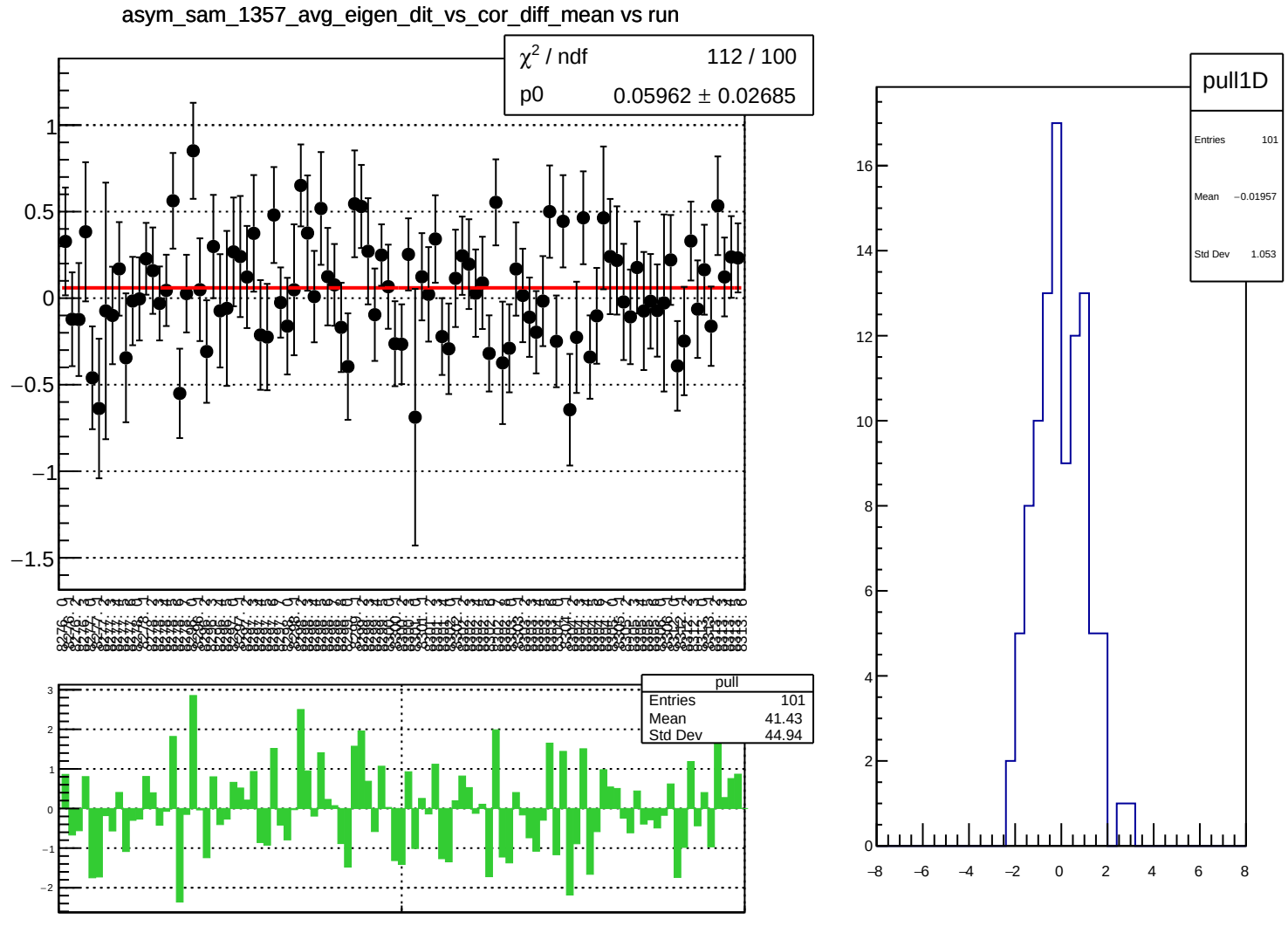

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6.183e+04 / 100
p0 25.93 ± 0.01899
70
60
50
40
30
20

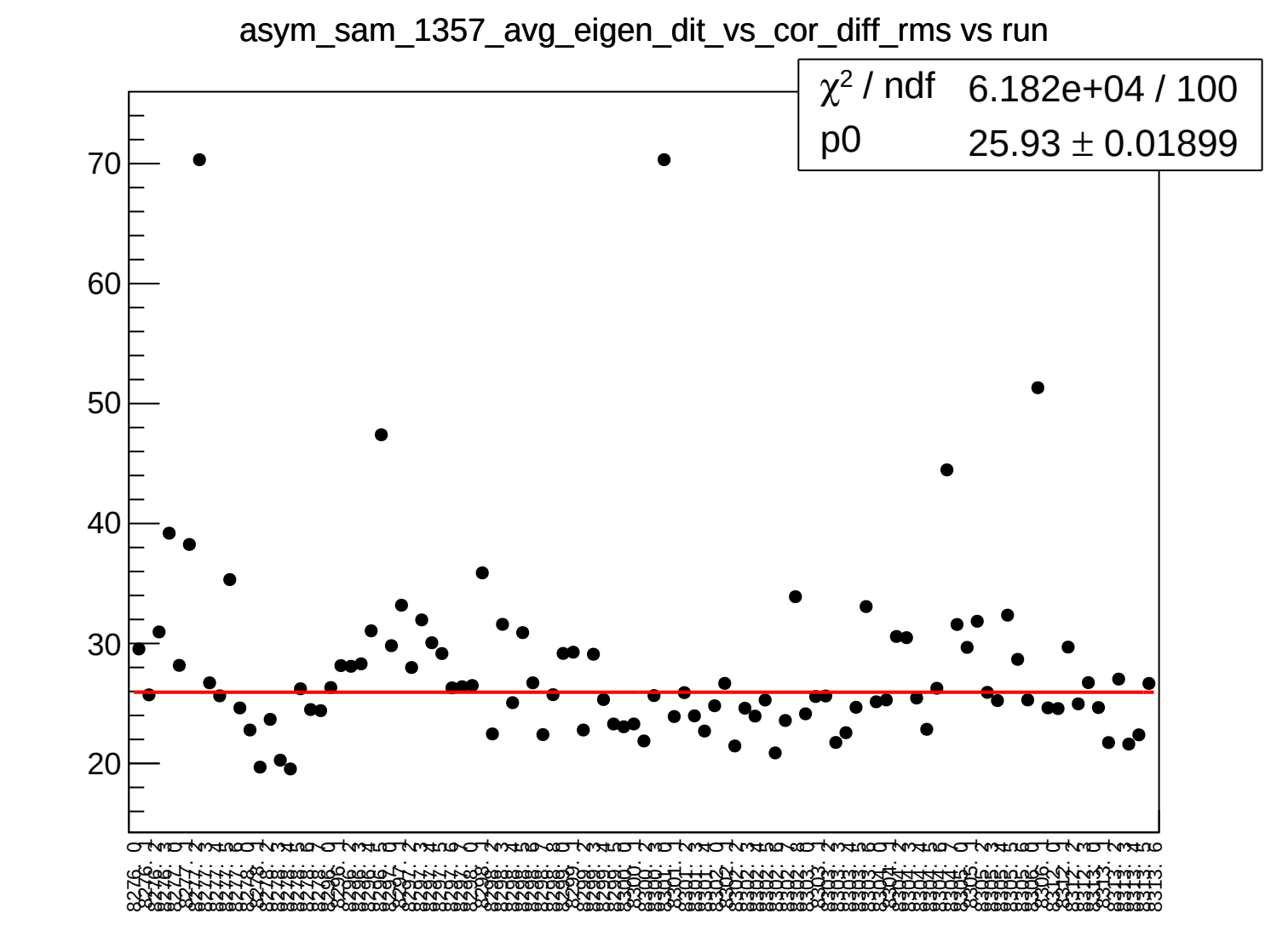

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112 / 100
p0 0.05962 ± 0.02685
pull
Entries 101
Mean 41.41
Std Dev 44.92
pull1D
Entries 101
Mean −0.01957
Std Dev 1.053

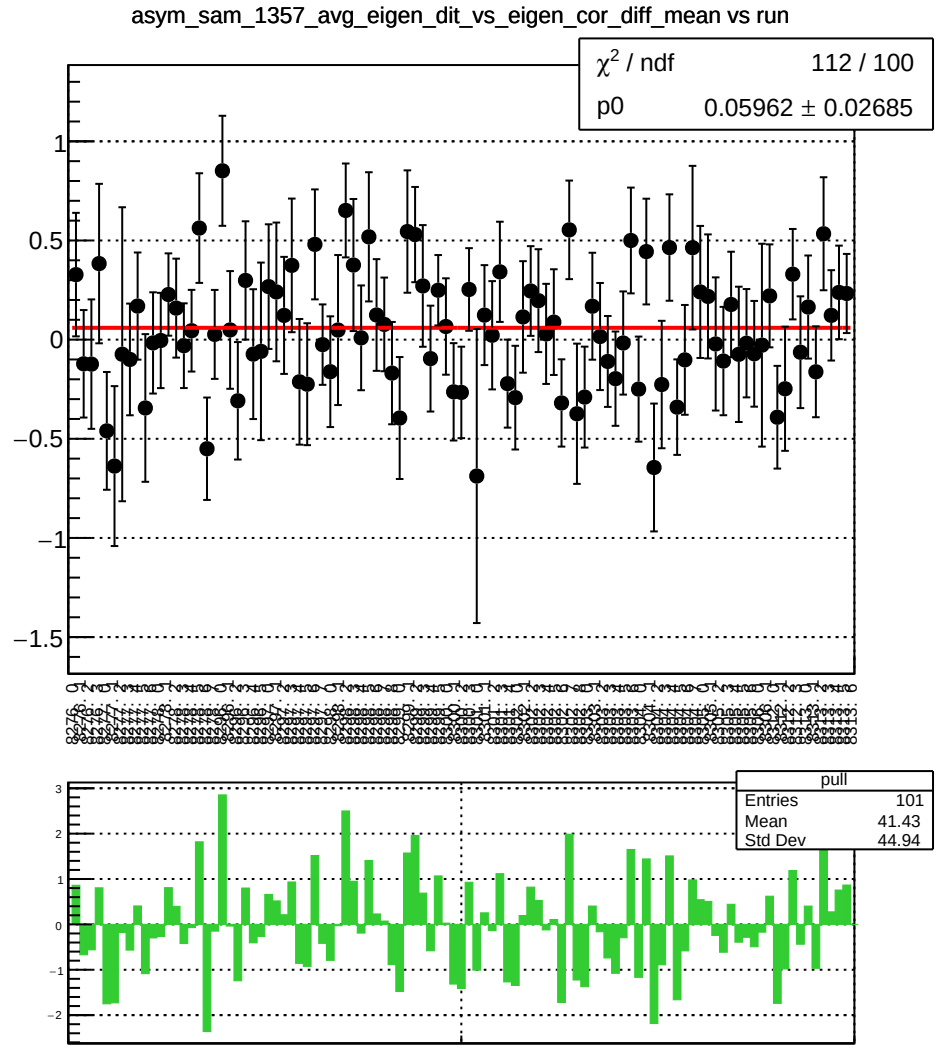

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 6.183e+04 / 100
p0 25.93 ± 0.01899
70
60
50
40
30
20

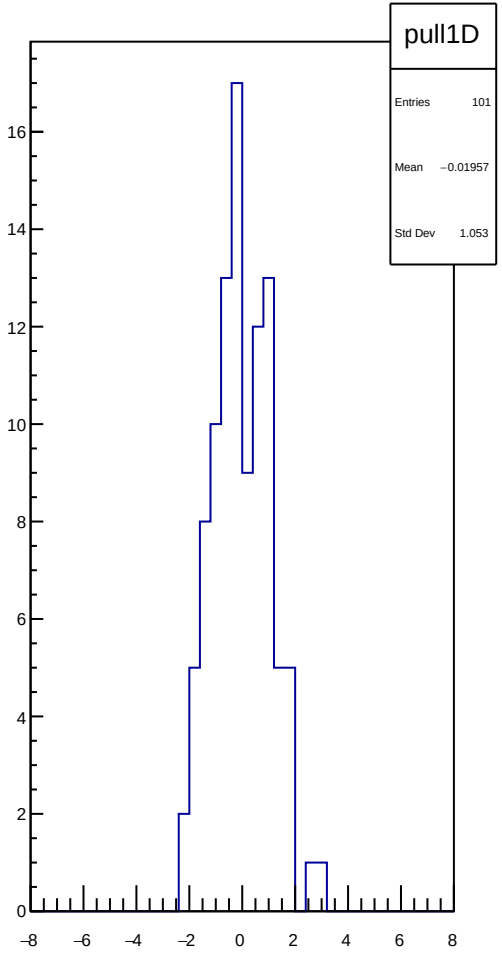

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 104.5 / 100
p0 6.043e−07 ± 1.679e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 101
Mean −461.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.01083
Std Dev 1.017
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

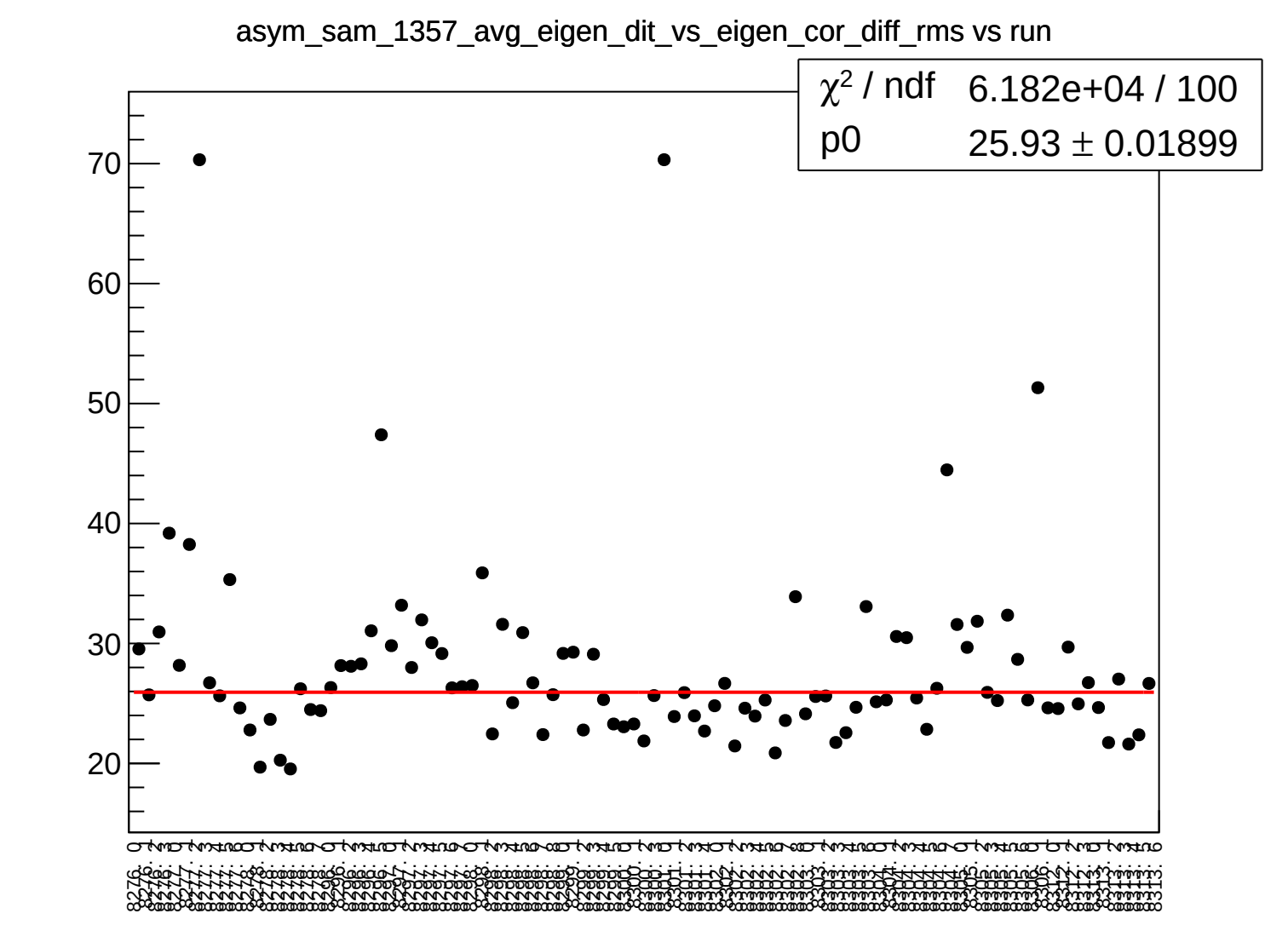

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.547e+05 / 100
p0 0.00134 ± 1.188e–06
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005

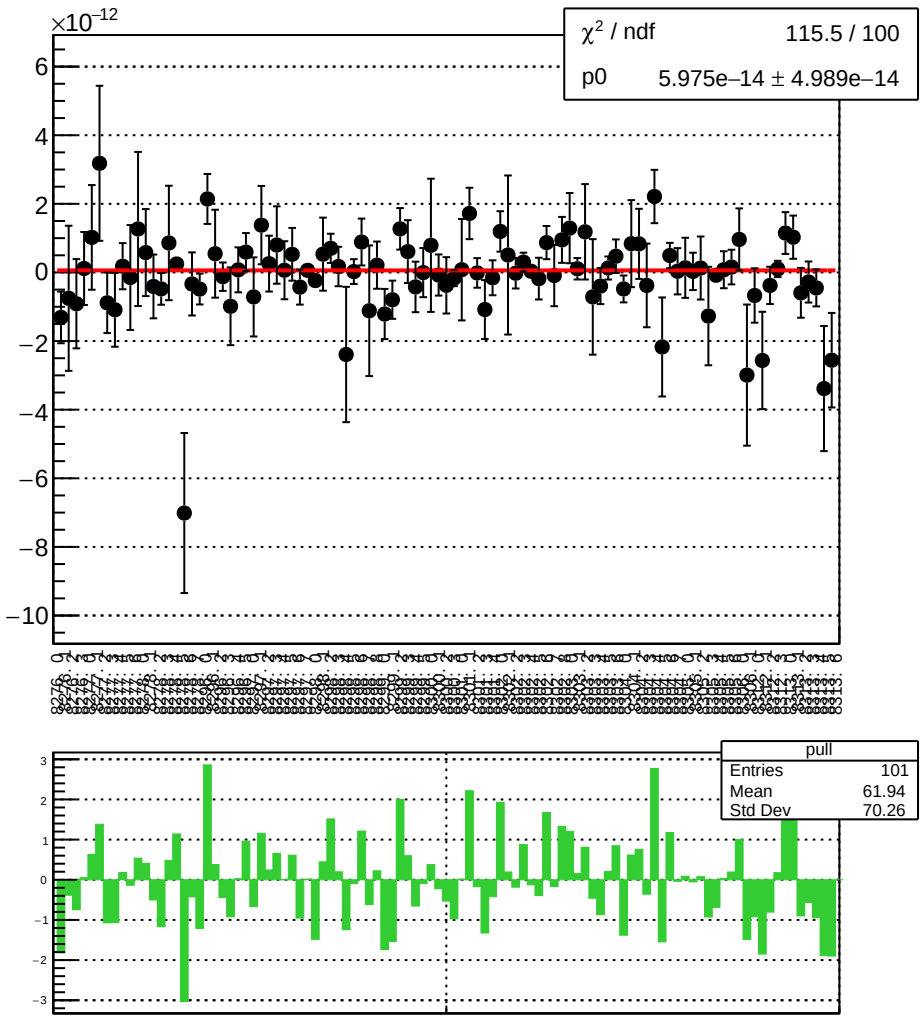

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 112 / 100
p0 0.05962 ± 0.02685
pull
Entries 101
Mean 41.43
Std Dev 44.94
pull1D
Entries 101
Mean −0.01957
Std Dev 1.053

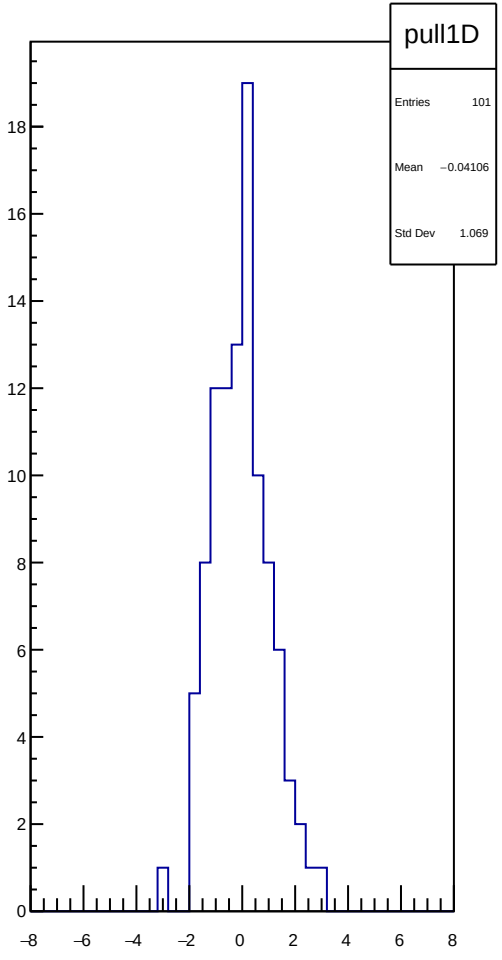

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6.182e+04 / 100
p0 25.93 ± 0.01899
70
60
50
40
30
20

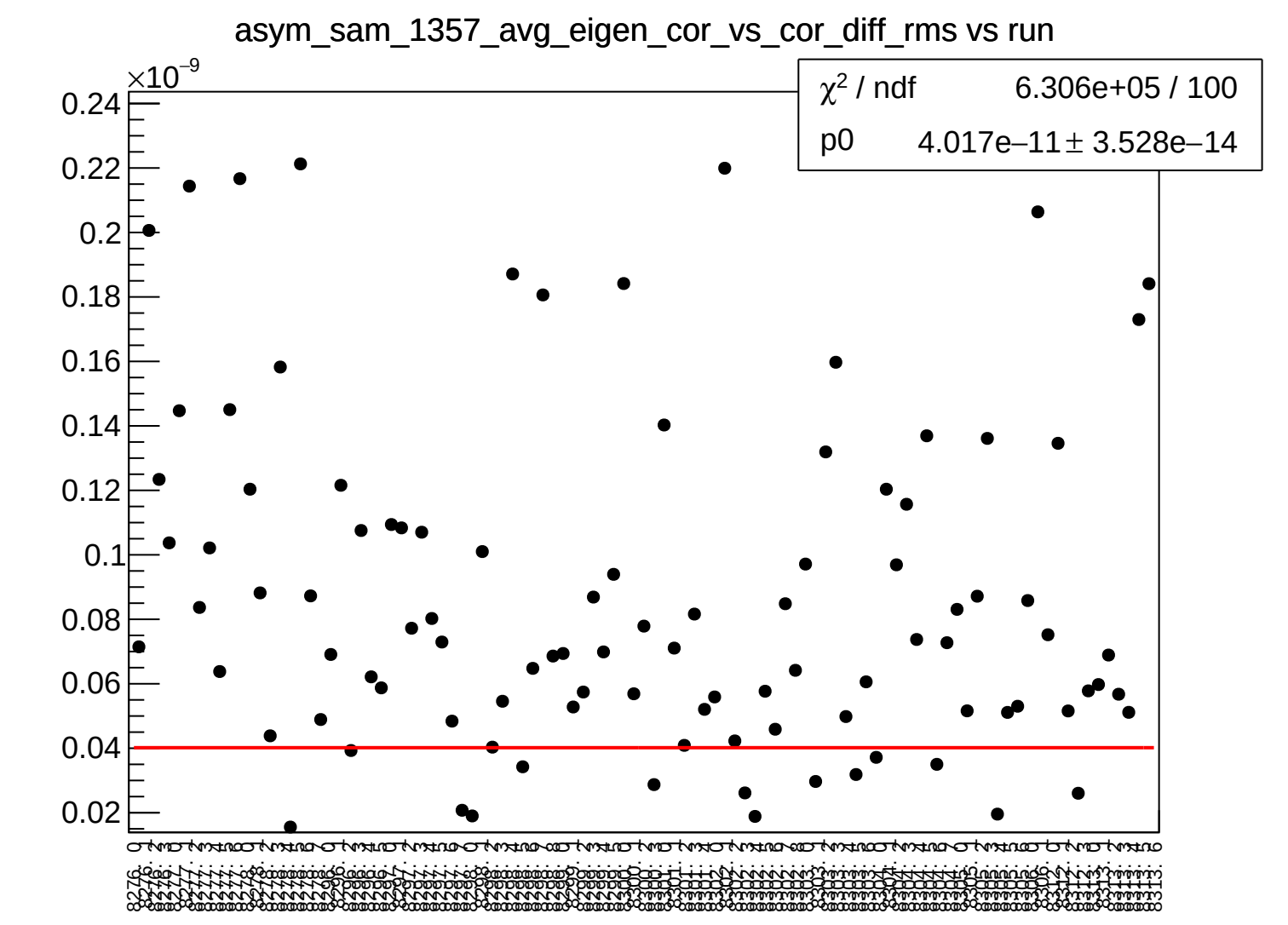

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112 / 100
p0 0.05962 ± 0.02685
pull
Entries 101
Mean 41.43
Std Dev 44.94

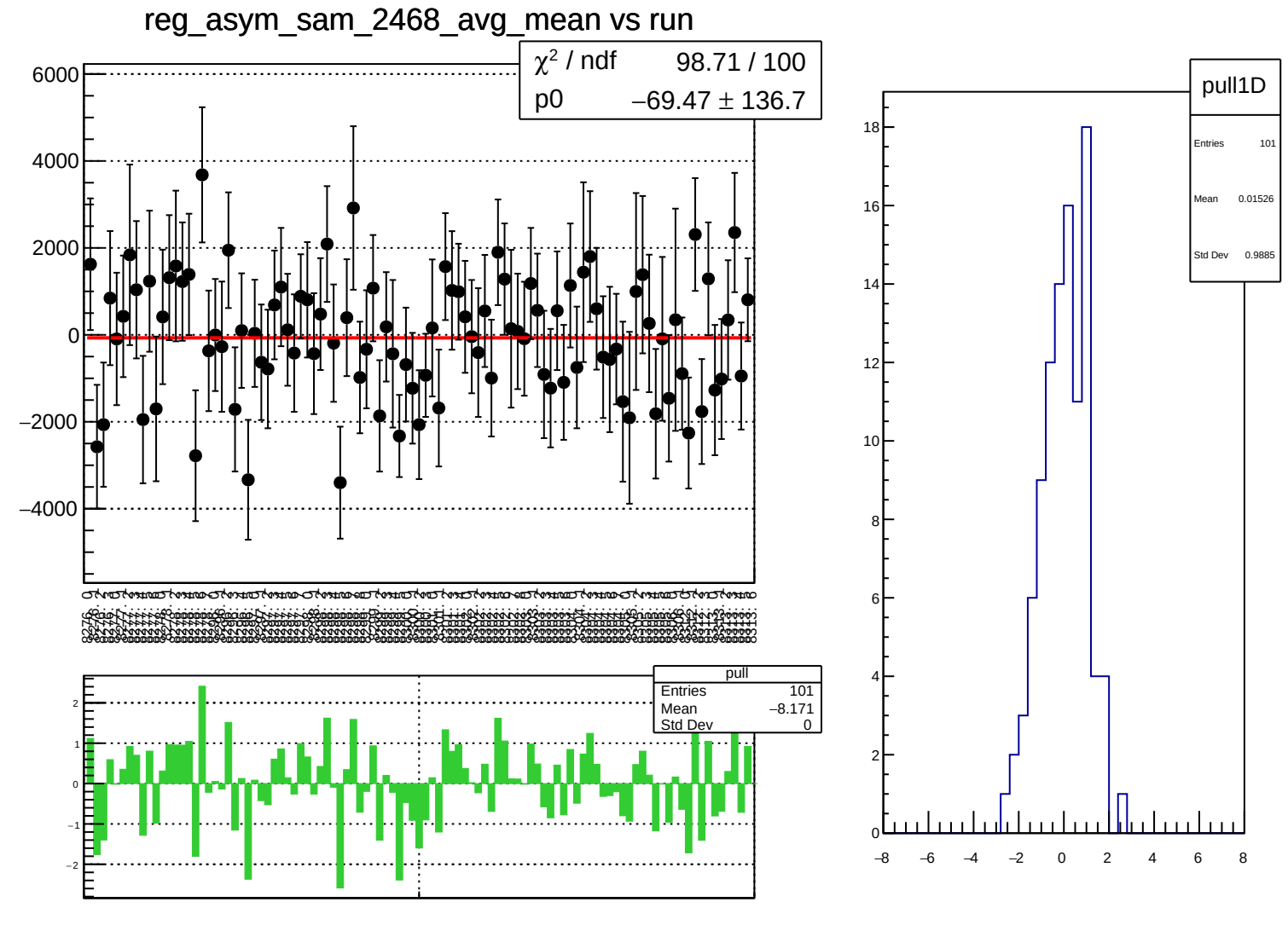

pull1D
Entries 101
Mean −0.01957
Std Dev 1.053

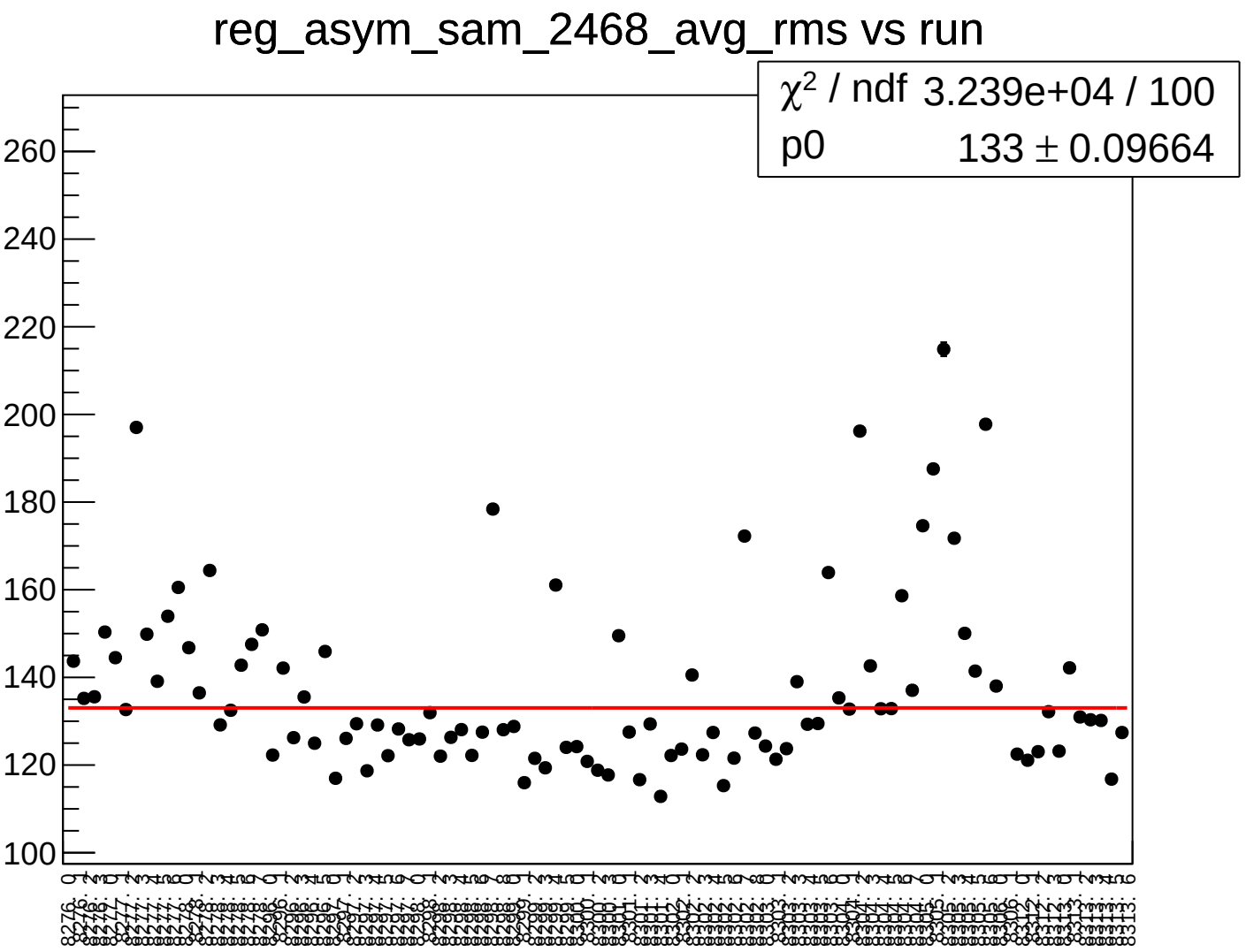

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 6.182e+04 / 100
p0 25.93 ± 0.01899
70
60
50
40
30
20

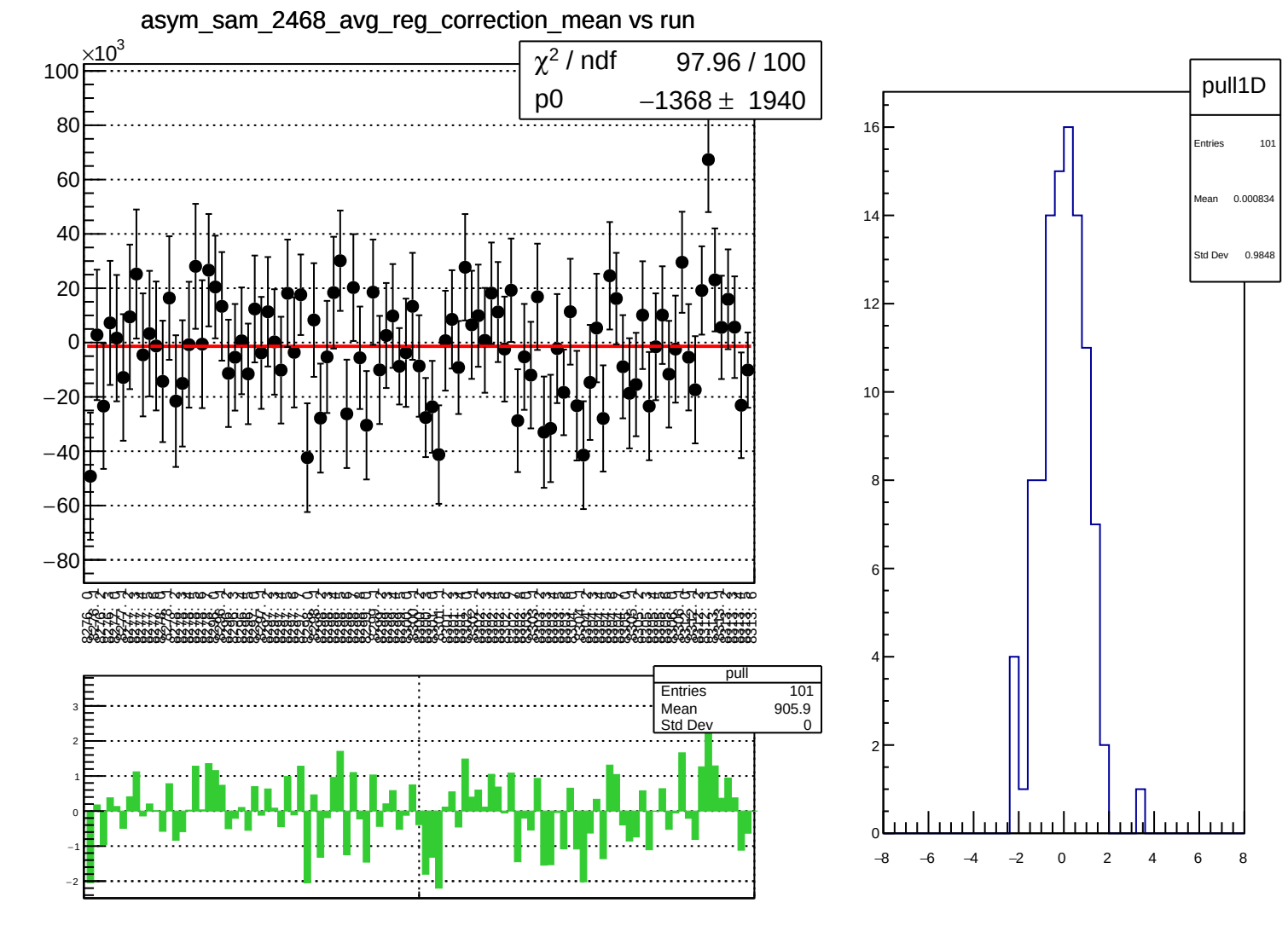

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 115.5 / 100
p0 5.975e−14 ± 4.989e−14
pull
Entries 101
Mean 61.94
Std Dev 70.26

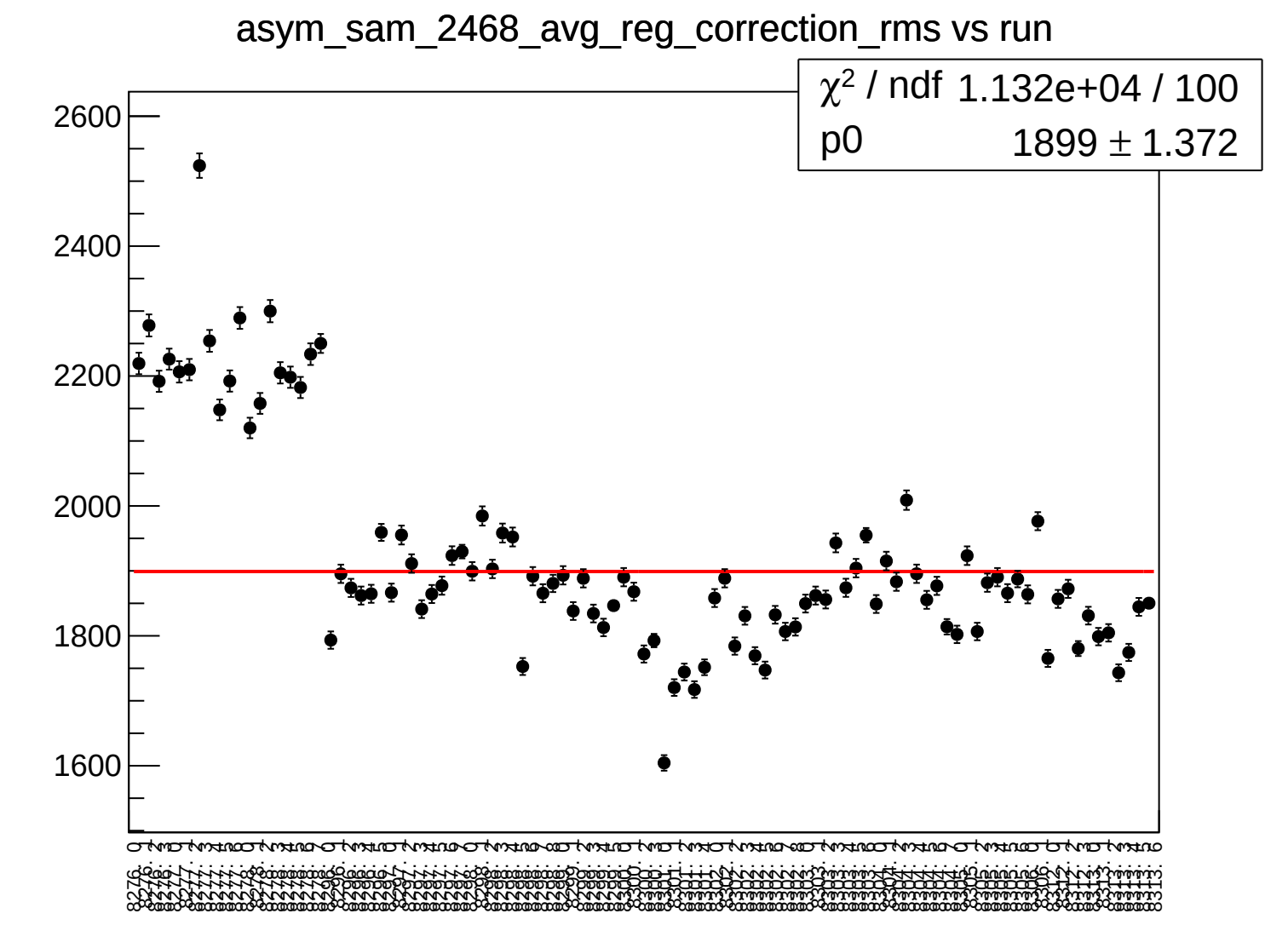

pull1D
Entries 101
Mean −0.04106
Std Dev 1.069

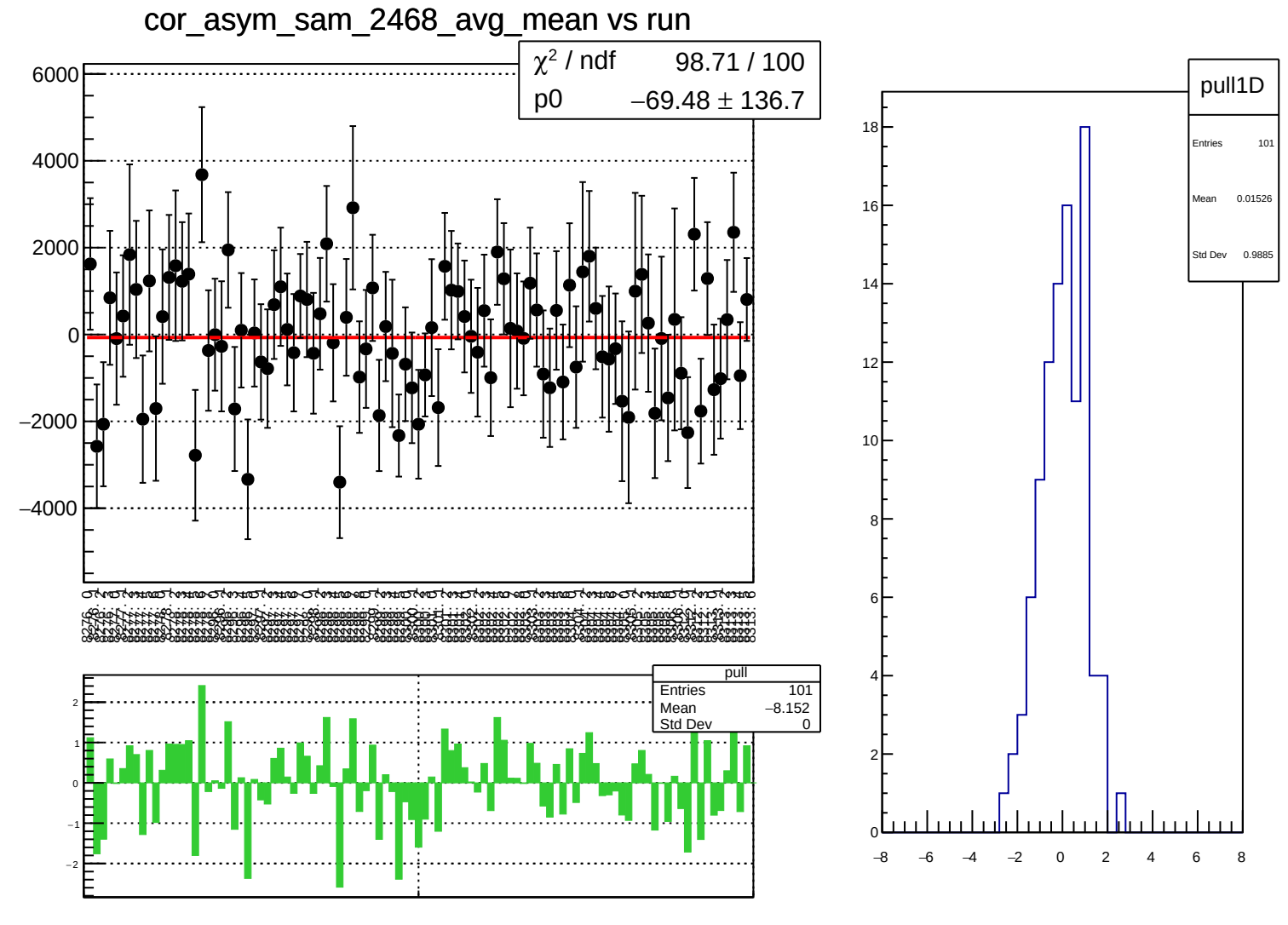

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.306e+05 / 100
p0 4.017e−11 ± 3.528e−14
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

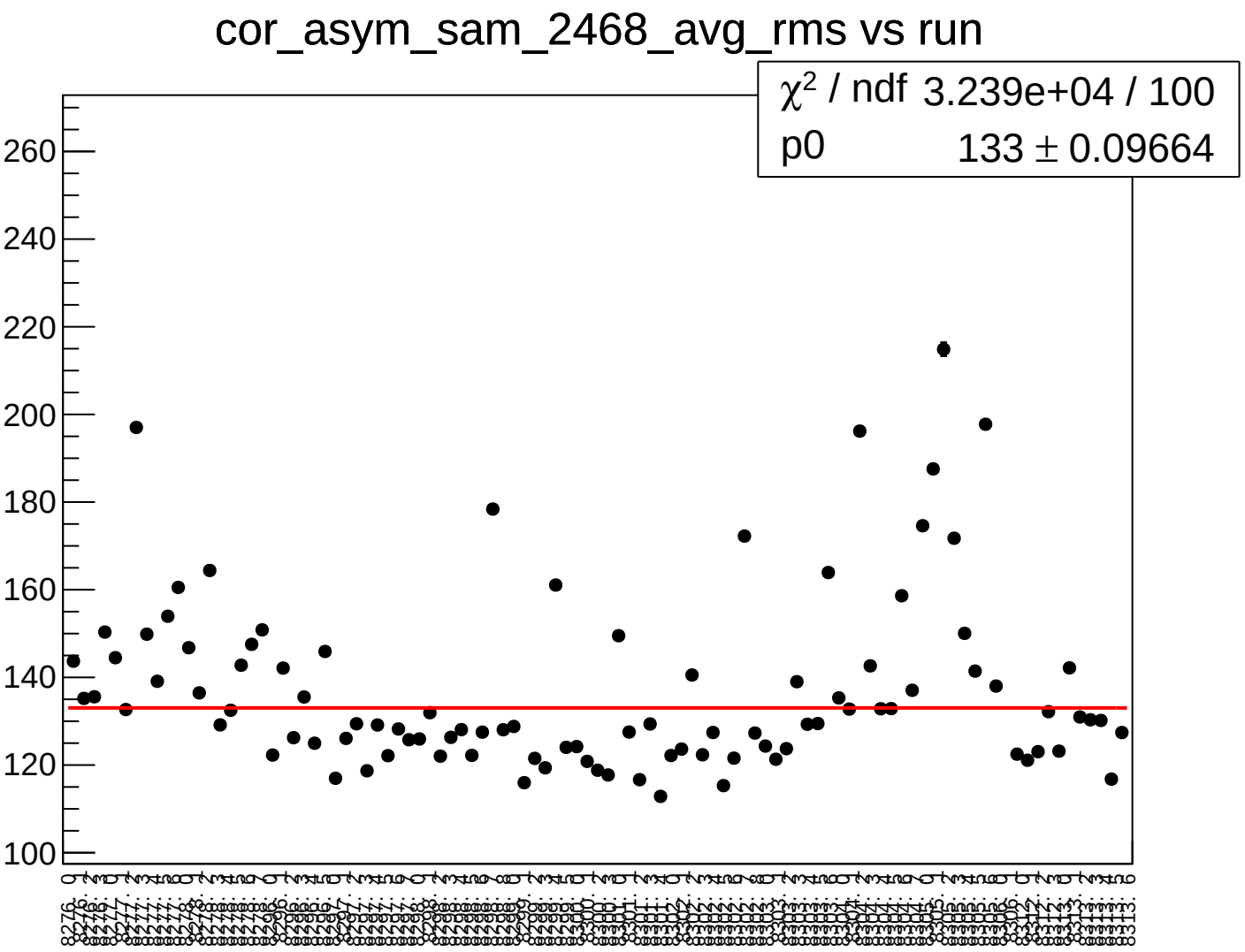

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 98.71 / 100
p0 −69.47 ± 136.7
6000
4000
2000
0
−2000
−4000
pull
Entries 101
Mean −8.171
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.01526
Std Dev 0.9885
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

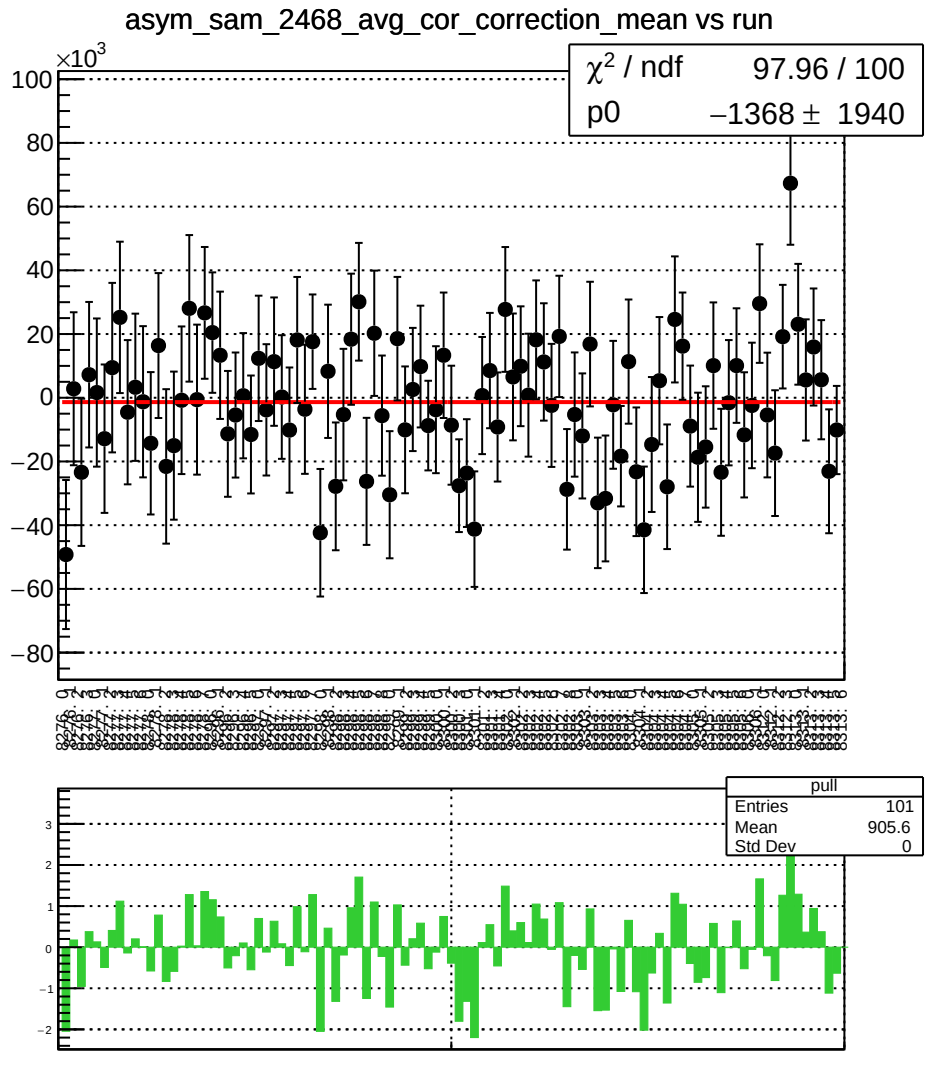

reg_asym_sam_2468_avg_rms vs run
χ² / ndf 3.239e+04 / 100
p0 133 ± 0.09664
260
240
220
200
180
160
140
120
100

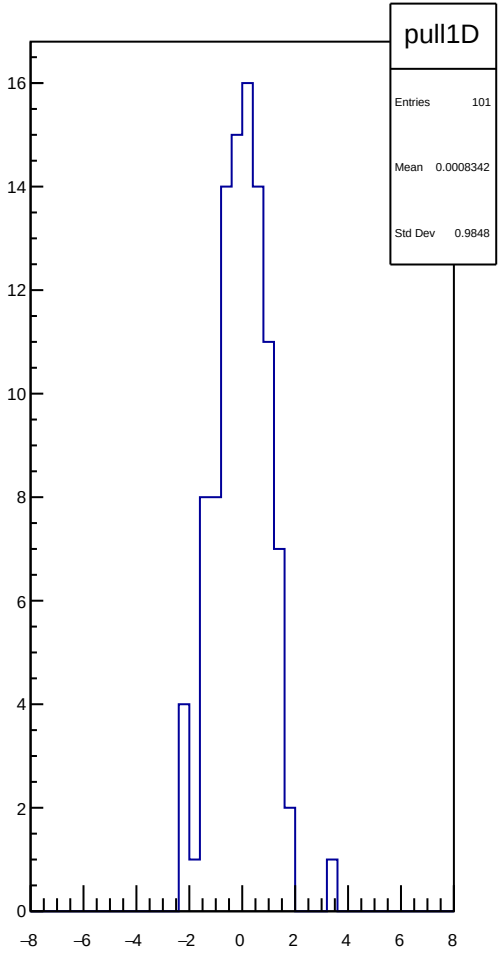

asym_sam_2468_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 97.96 / 100
p0 −1368 ± 1940
pull
Entries 101
Mean 905.9
Std Dev 0
pull1D
Entries 101
Mean 0.000834
Std Dev 0.9848

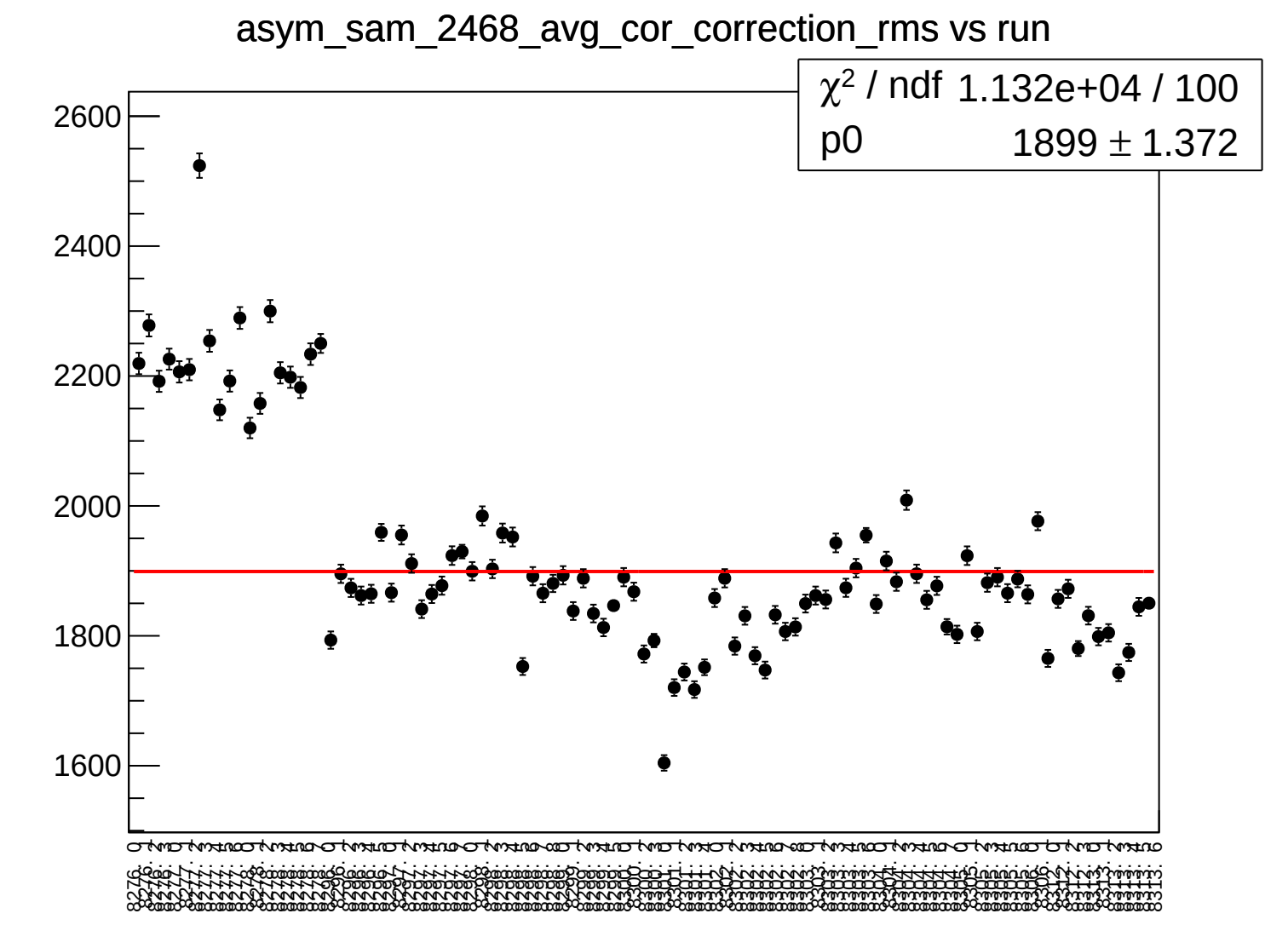

asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 1.132e+04 / 100
p0 1899 ± 1.372
2600
2400
2200
2000
1800
1600

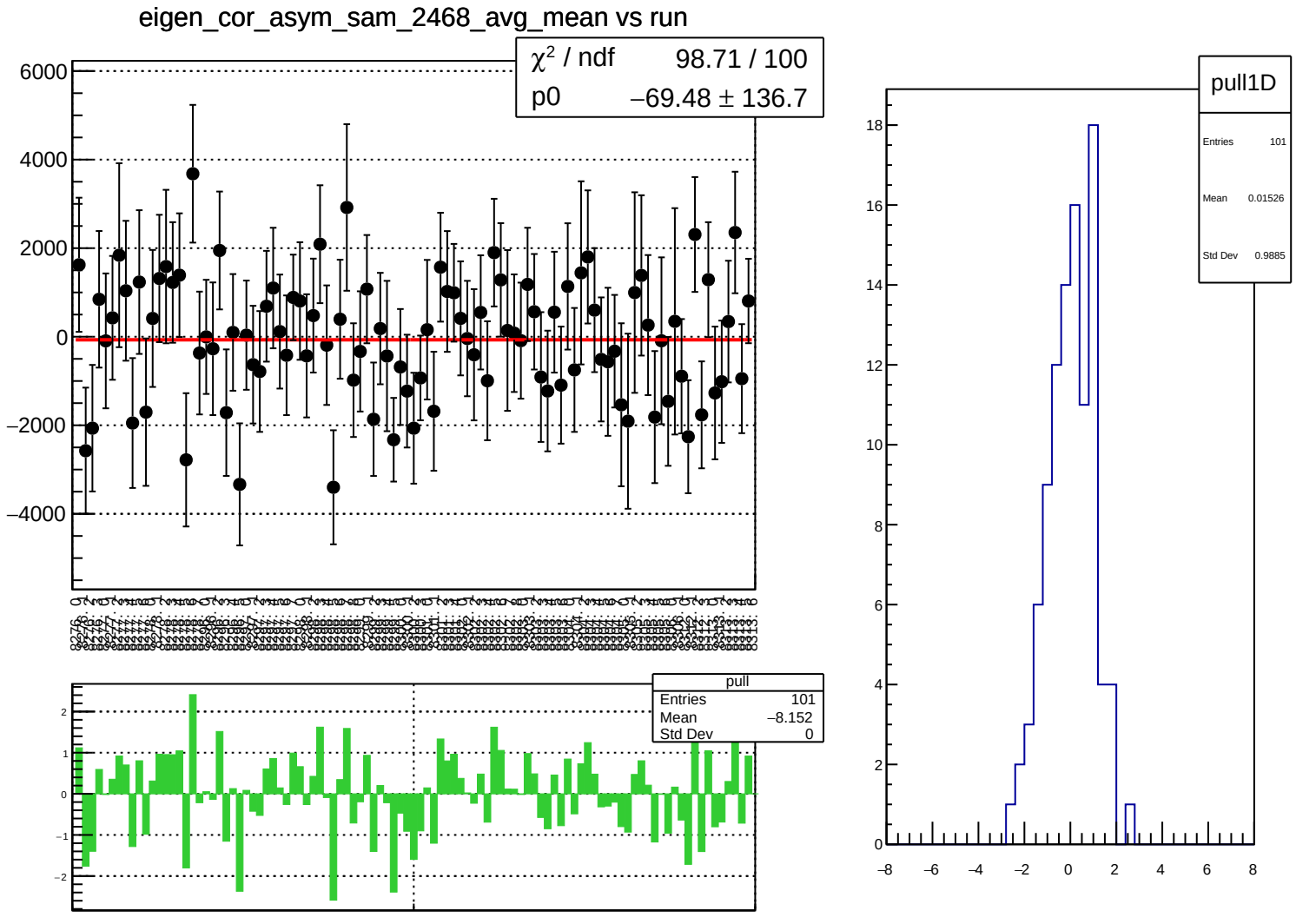

cor_asym_sam_2468_avg_mean vs run
χ² / ndf 98.71 / 100
p0 −69.48 ± 136.7
6000
4000
2000
0
−2000
−4000
pull
Entries 101
Mean −8.152
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.01526
Std Dev 0.9885
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

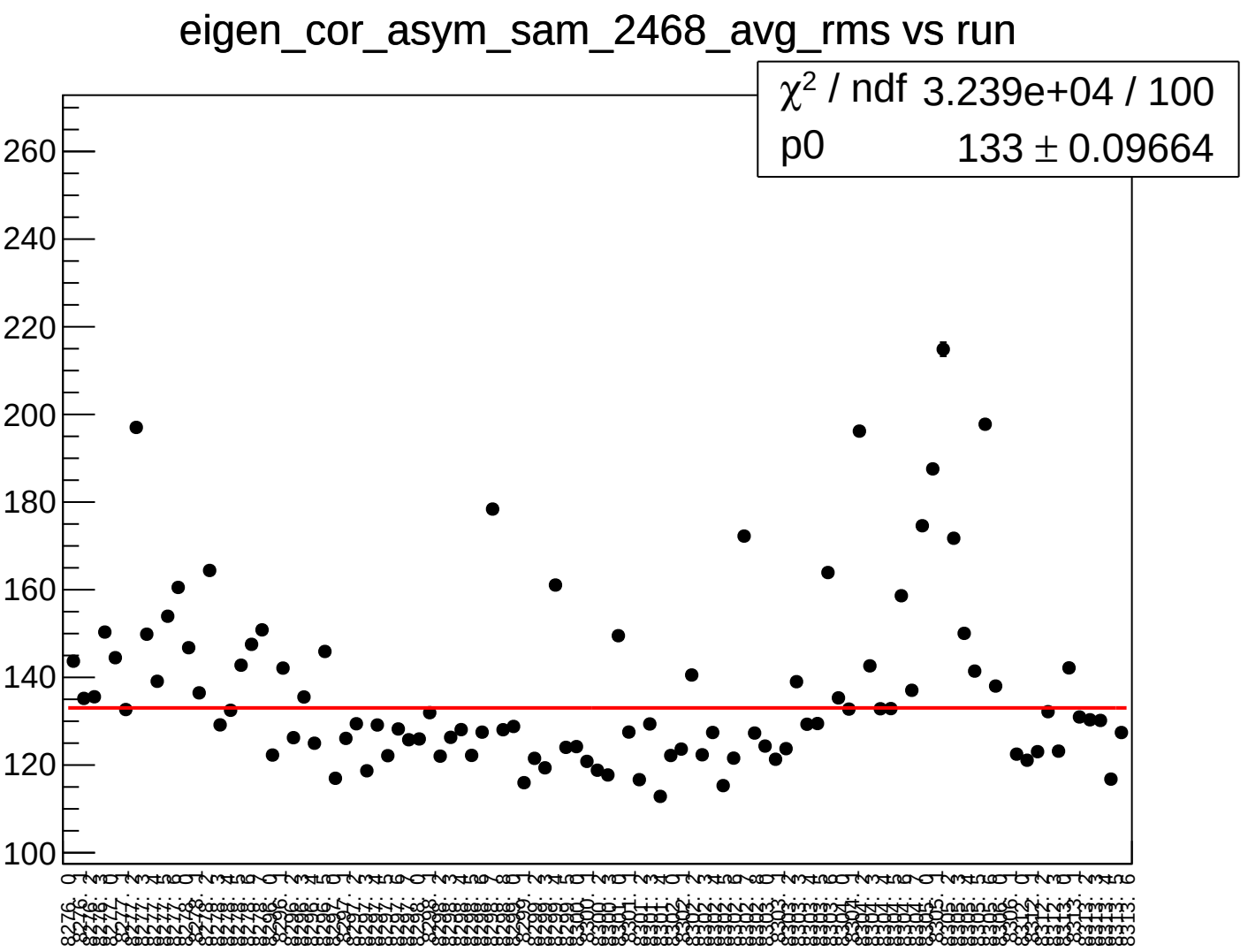

cor_asym_sam_2468_avg_rms vs run
χ² / ndf 3.239e+04 / 100
p0 133 ± 0.09664
260
240
220
200
180
160
140
120
100

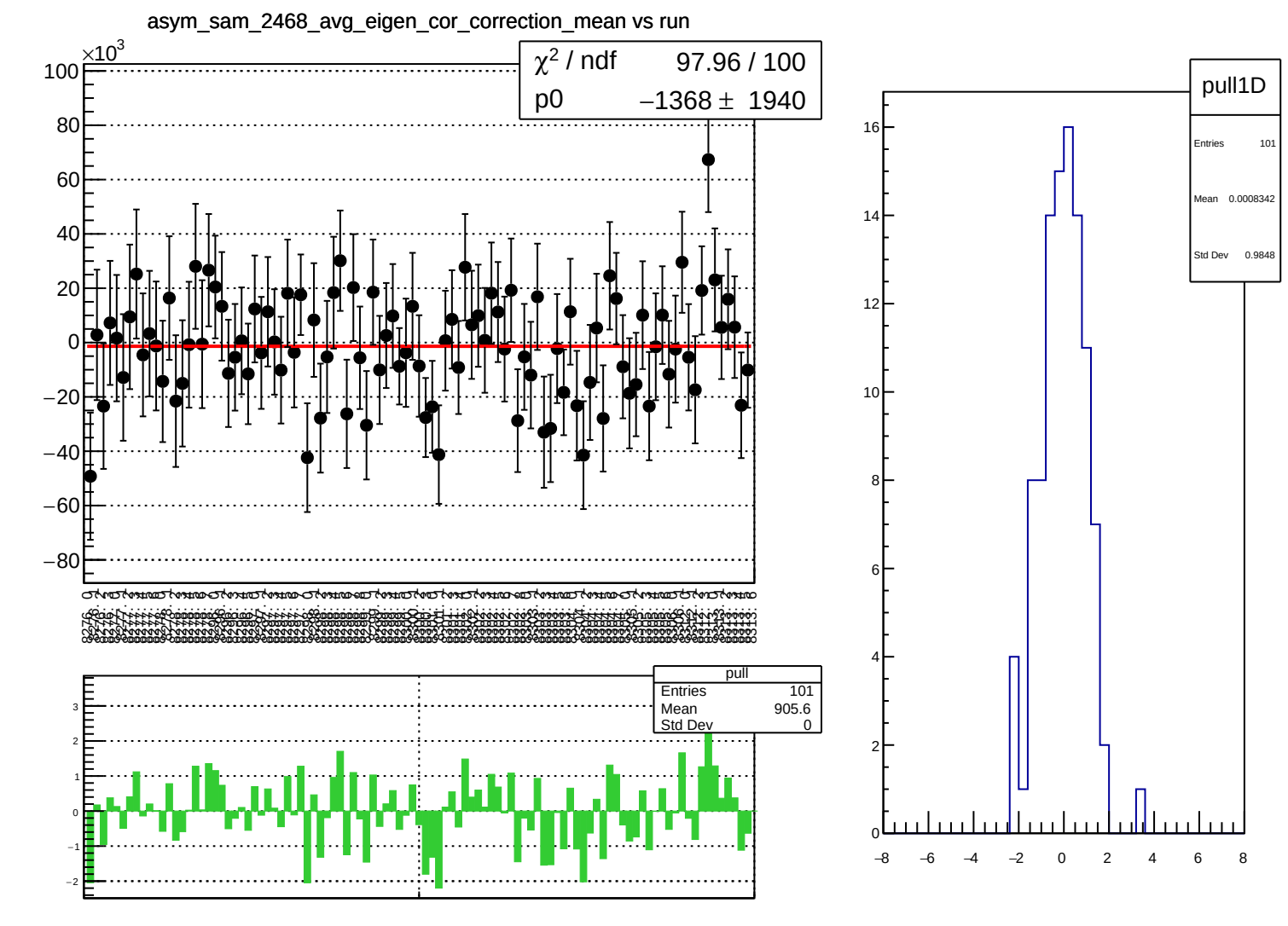

asym_sam_2468_avg_cor_correction_mean vs run
×10^3
χ² / ndf 97.96 / 100
p0 −1368 ± 1940
pull
Entries 101
Mean 905.6
Std Dev 0

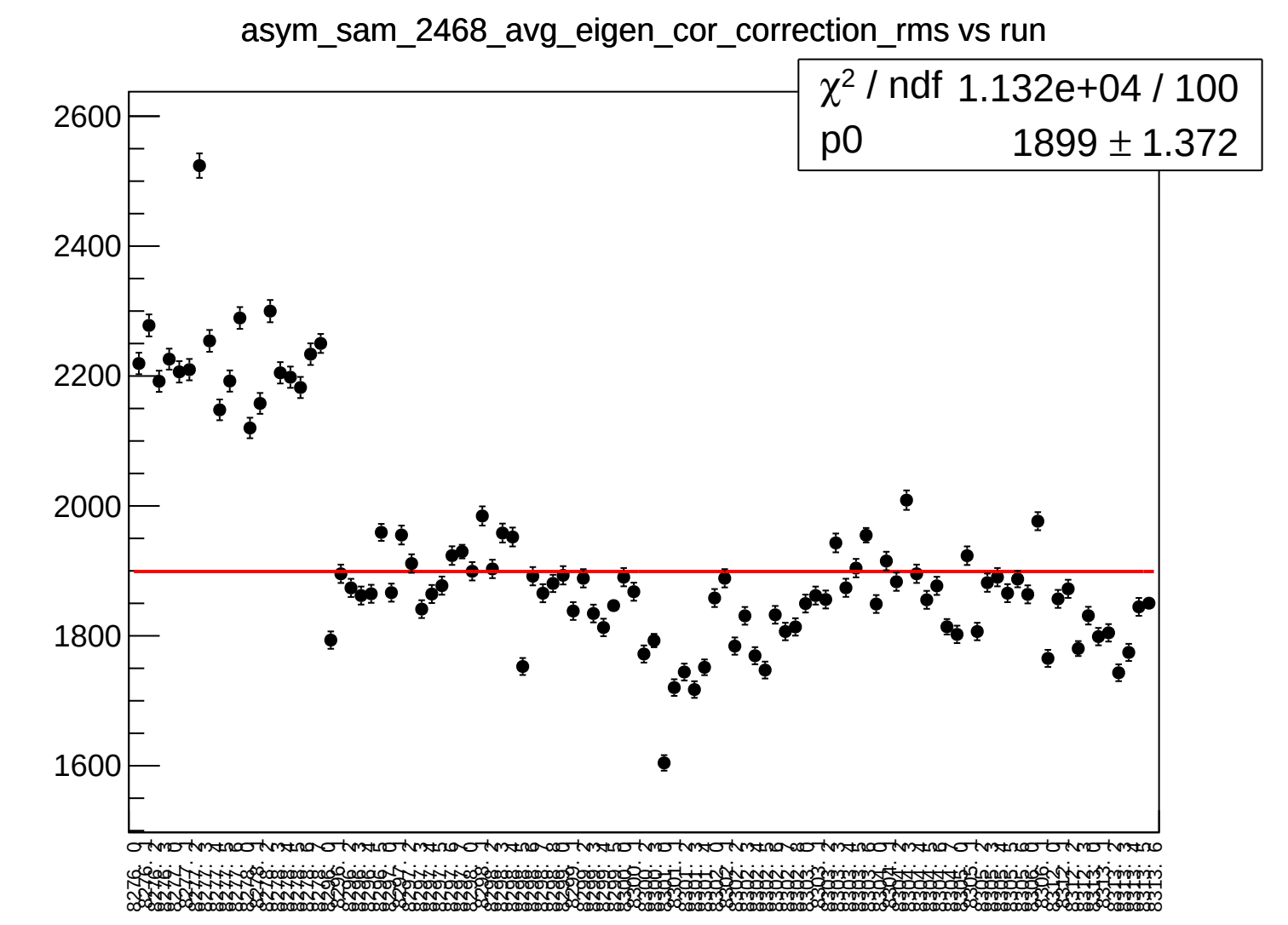

pull1D
Entries 101
Mean 0.0008342
Std Dev 0.9848

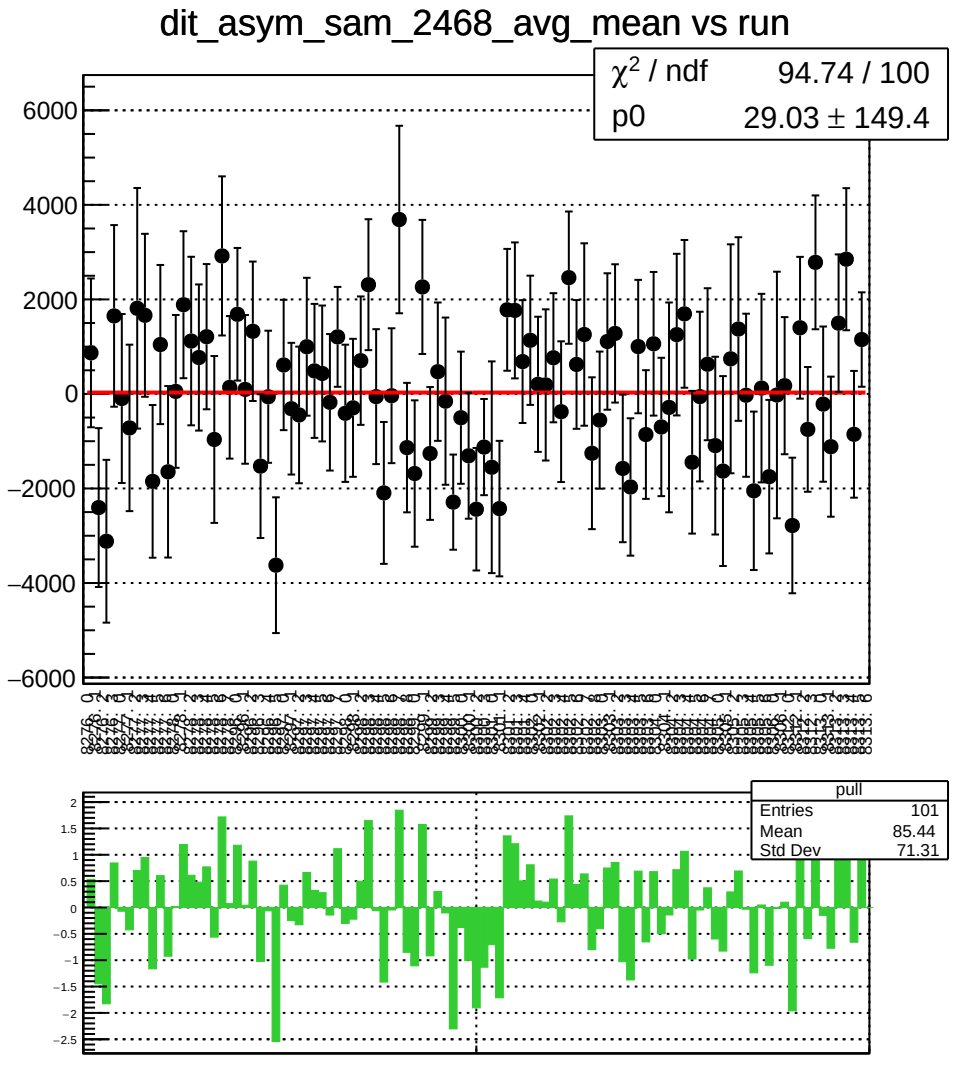

asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 1.132e+04 / 100
p0 1899 ± 1.372
2600
2400
2200
2000
1800
1600

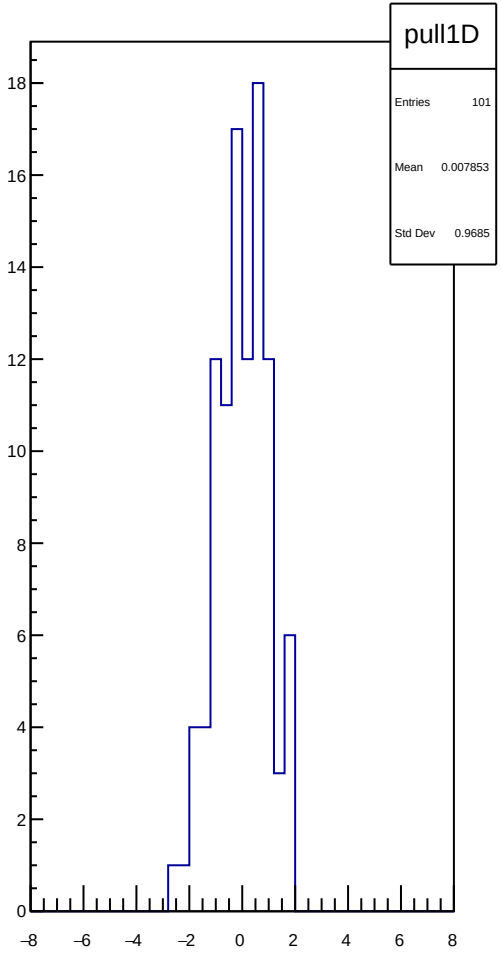

eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 98.71 / 100
p0 −69.48 ± 136.7
6000
4000
2000
0
−2000
−4000
pull
Entries 101
Mean −8.152
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.01526
Std Dev 0.9885
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

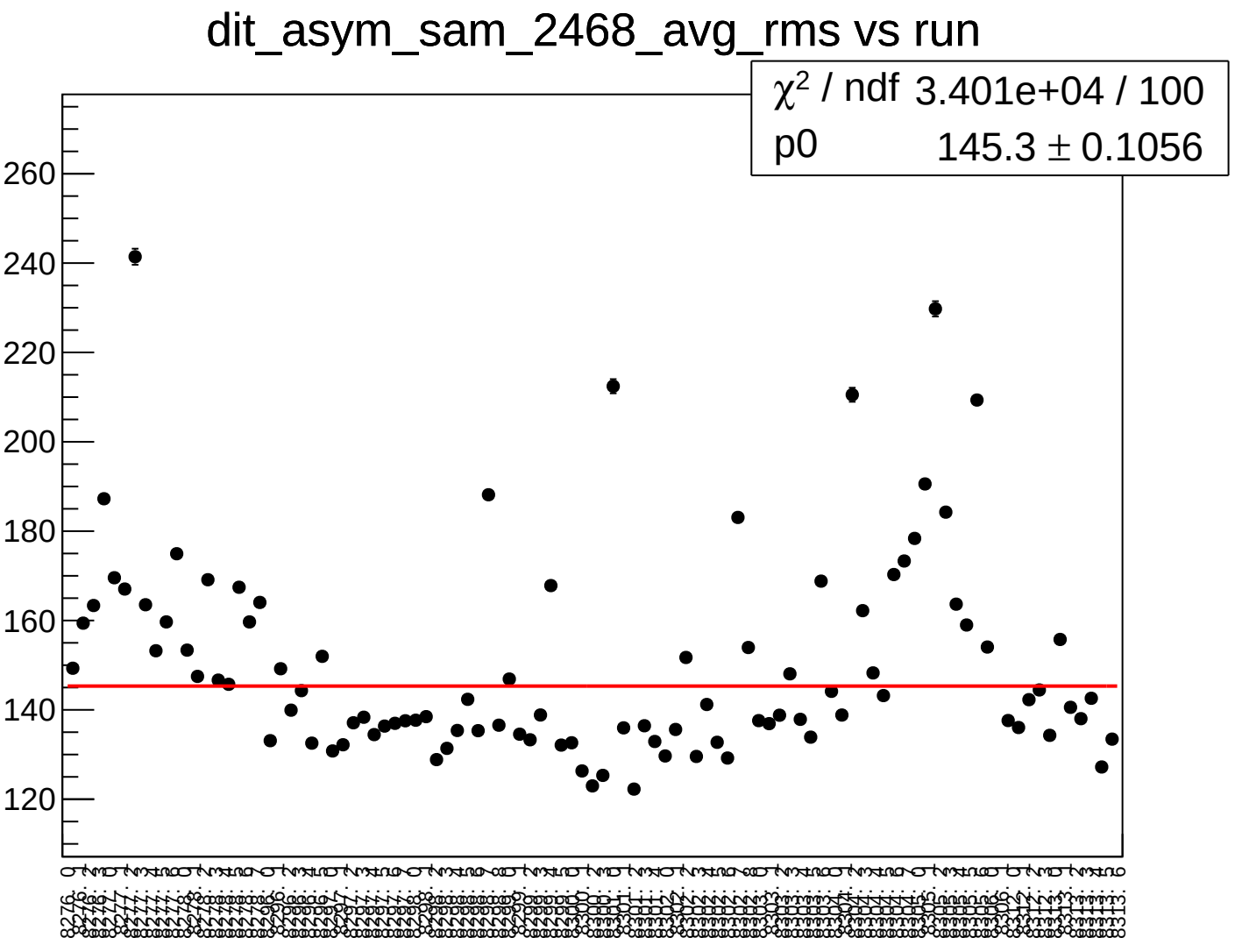

eigen_cor_asym_sam_2468_avg_rms vs run
χ² / ndf 3.239e+04 / 100
p0 133 ± 0.09664
260
240
220
200
180
160
140
120
100

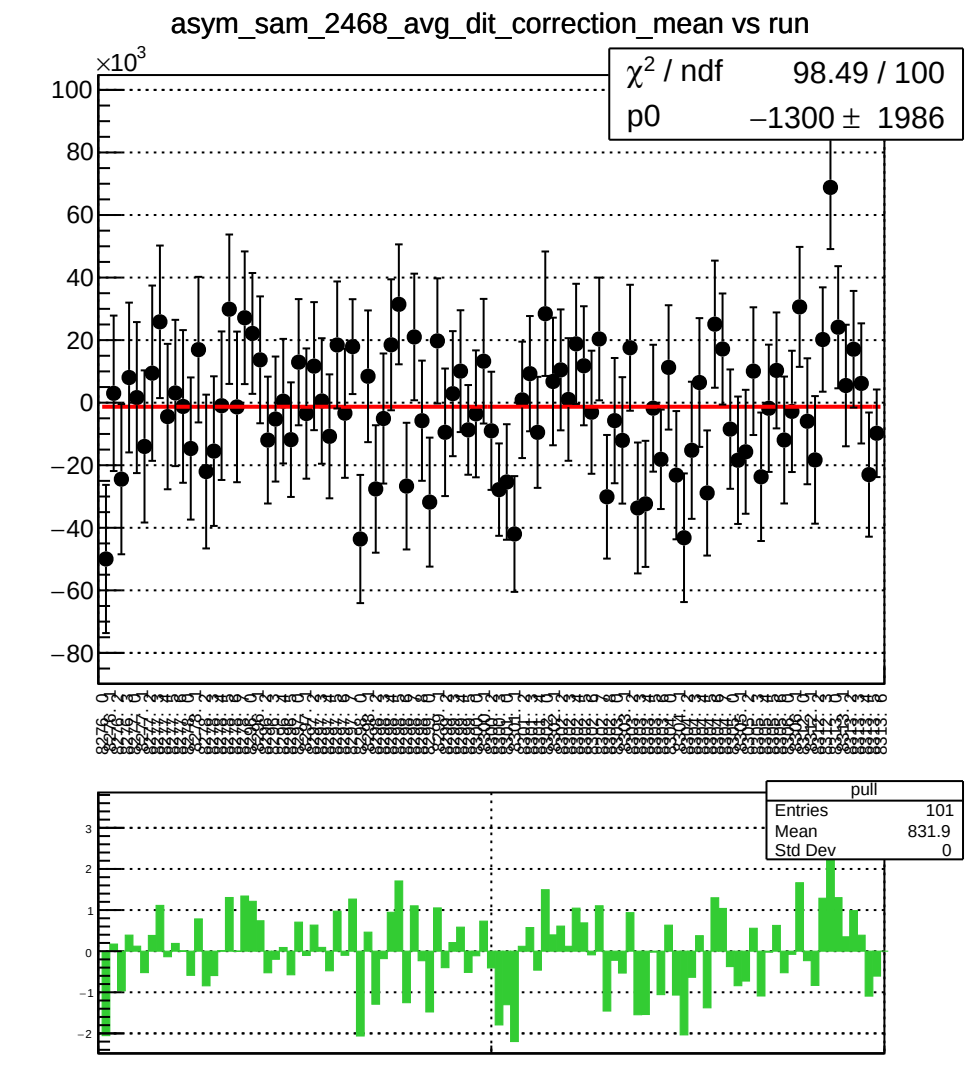

asym_sam_2468_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 97.96 / 100
p0 −1368 ± 1940
pull
Entries 101
Mean 905.6
Std Dev 0
pull1D
Entries 101
Mean 0.0008342
Std Dev 0.9848

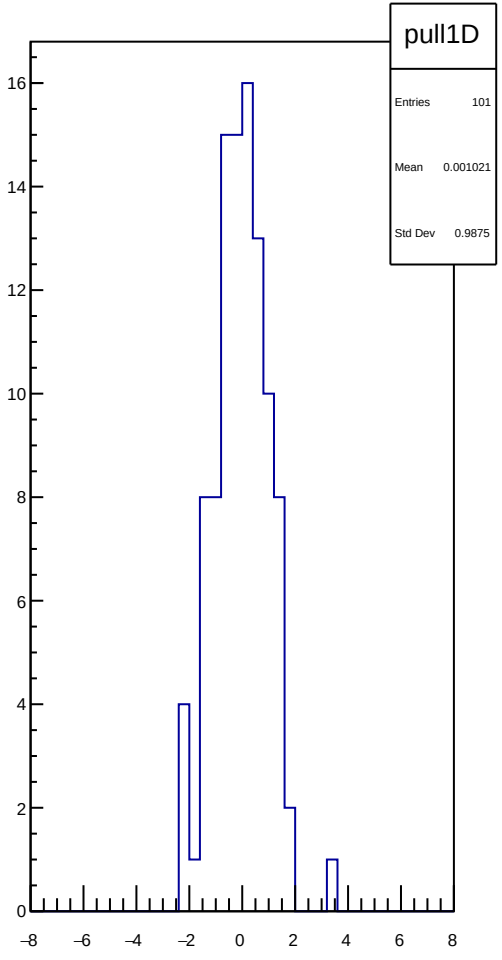

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.132e+04 / 100
p0 1899 ± 1.372
2600
2400
2200
2000
1800
1600

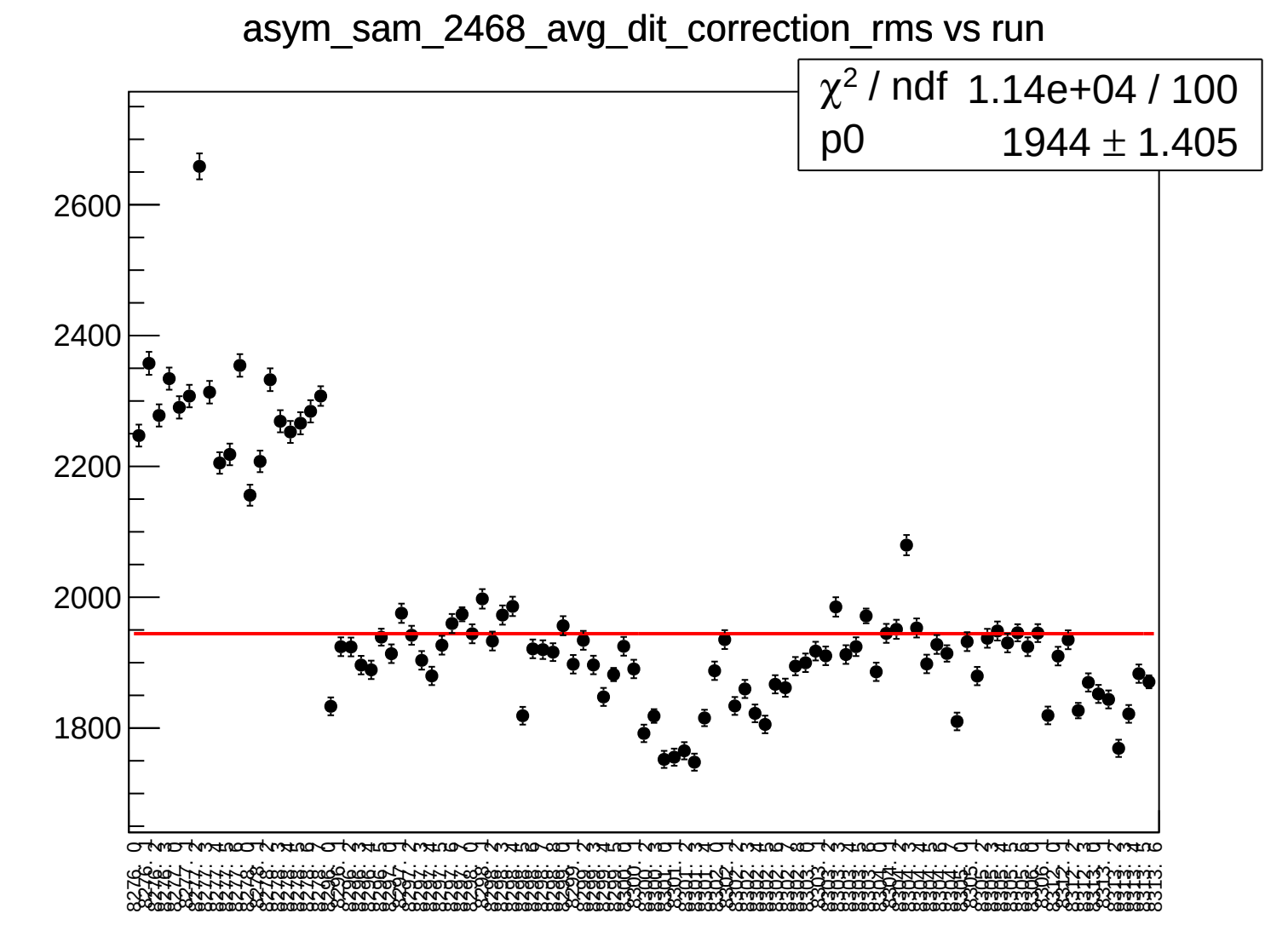

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 94.74 / 100
p0 29.03 ± 149.4
pull
Entries 101
Mean 85.44
Std Dev 71.31

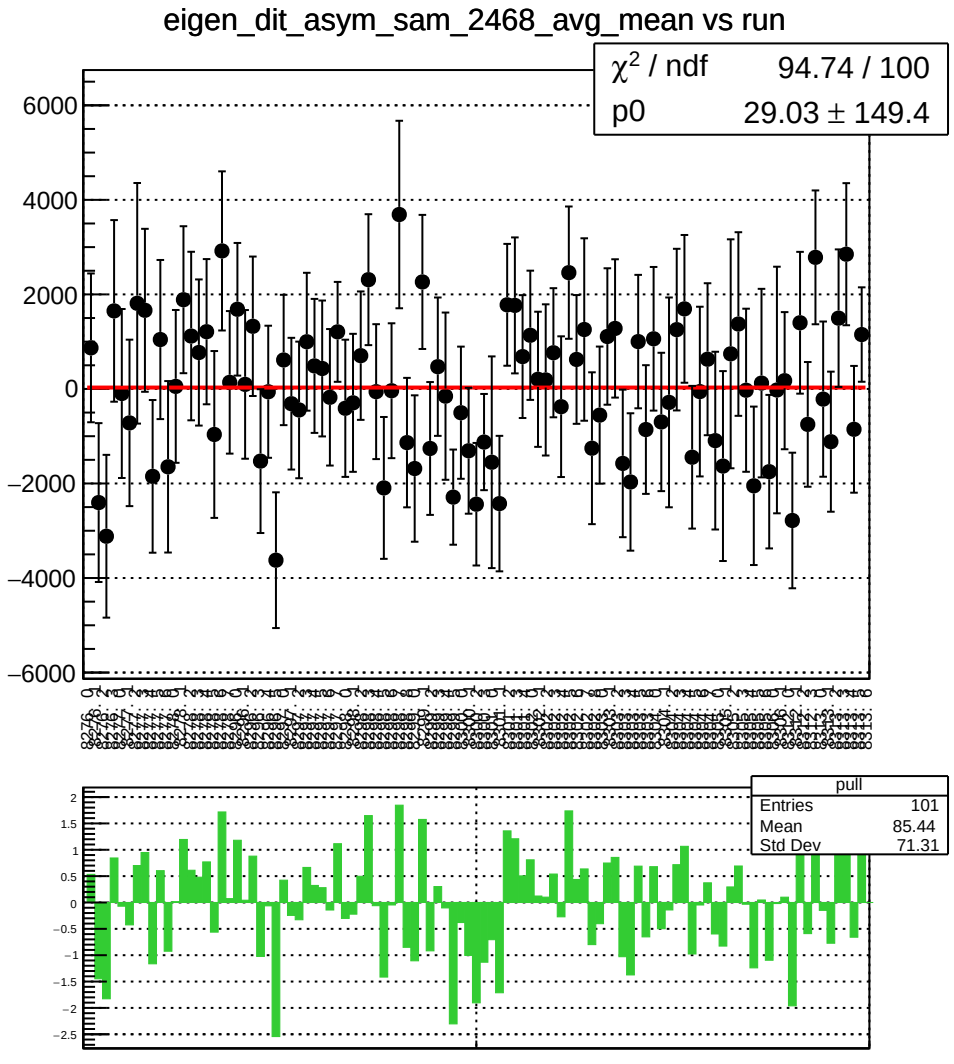

pull1D
Entries 101
Mean 0.007853
Std Dev 0.9685

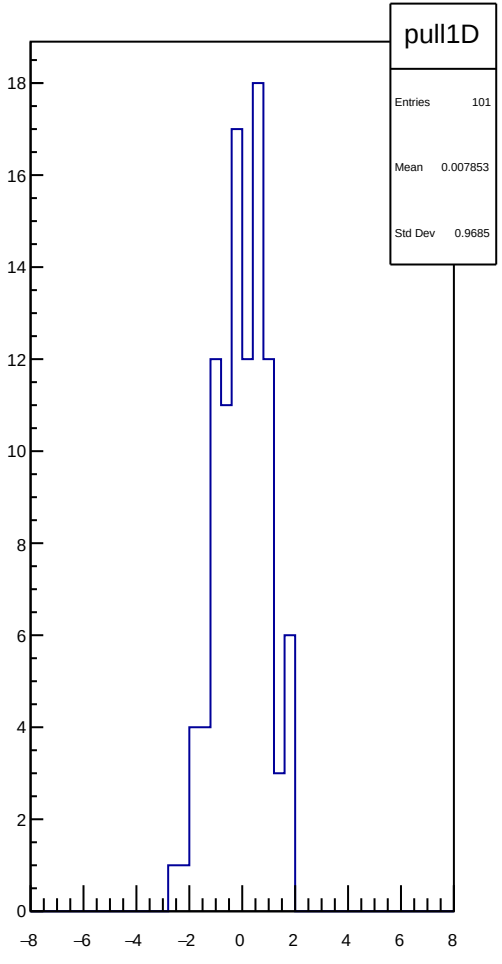

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 3.401e+04 / 100
p0 145.3 ± 0.1056
260
240
220
200
180
160
140
120

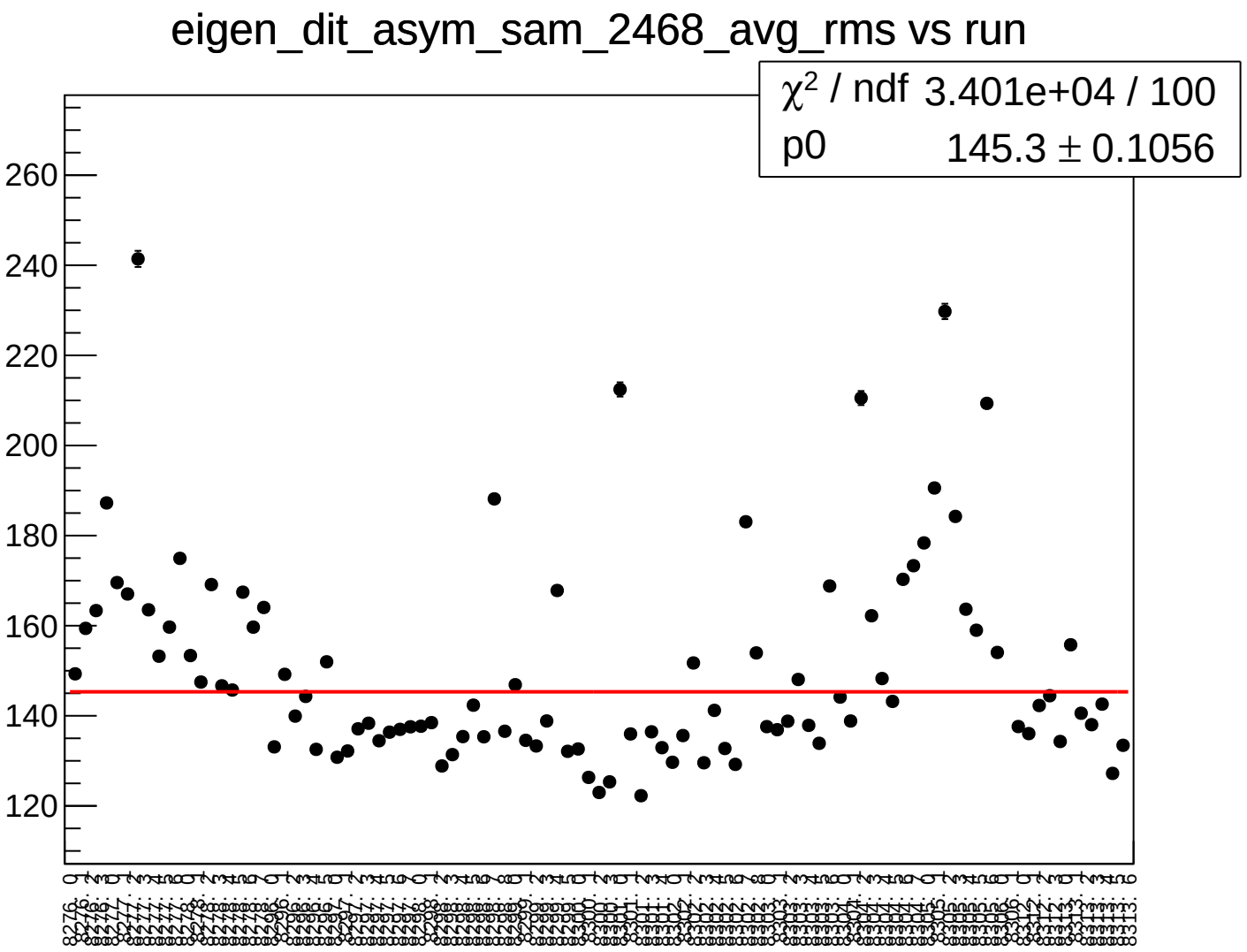

asym_sam_2468_avg_dit_correction_mean vs run
×10^3
χ² / ndf 98.49 / 100
p0 −1300 ± 1986
pull
Entries 101
Mean 831.9
Std Dev 0

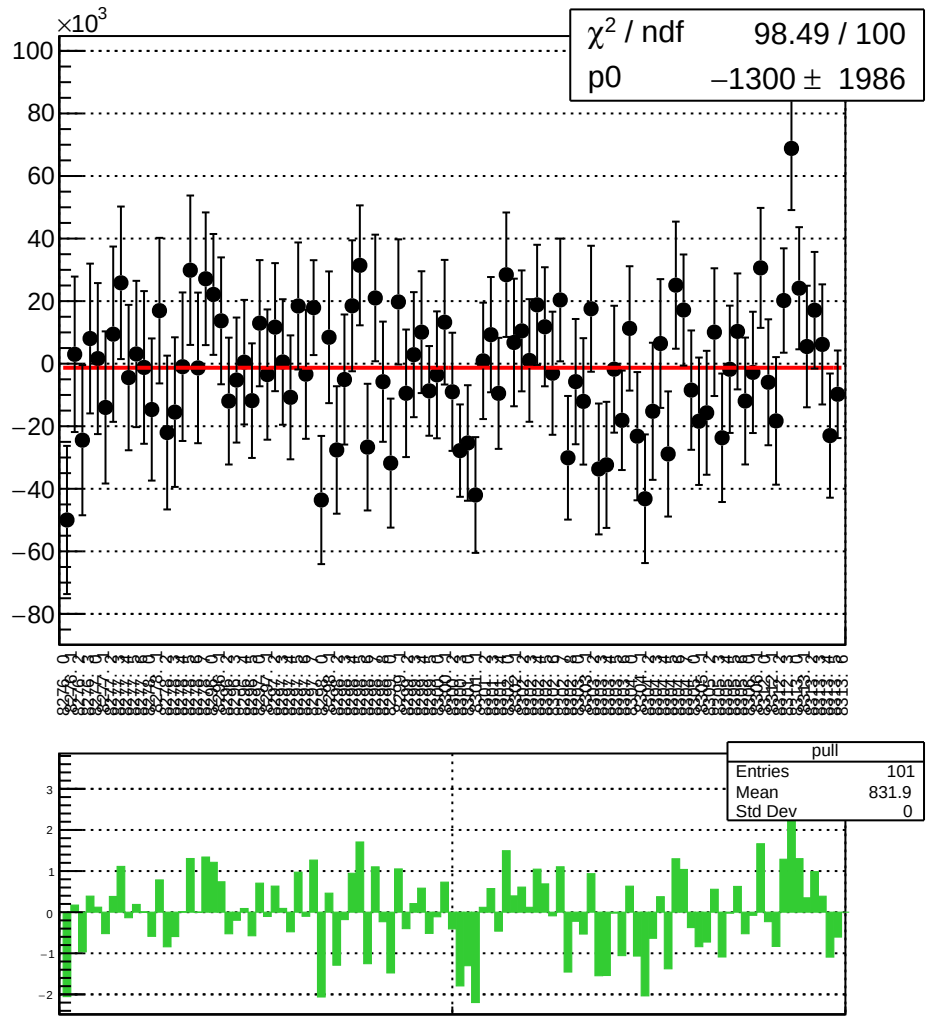

pull1D
Entries 101
Mean 0.001021
Std Dev 0.9875

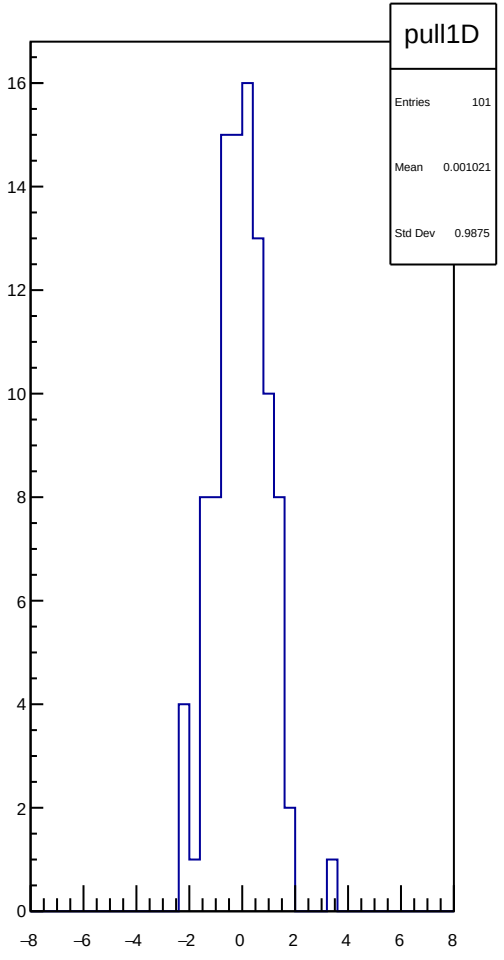

asym_sam_2468_avg_dit_correction_rms vs run
χ^2 / ndf 1.14e+04 / 100
p0 1944 ± 1.405
2600
2400
2200
2000
1800

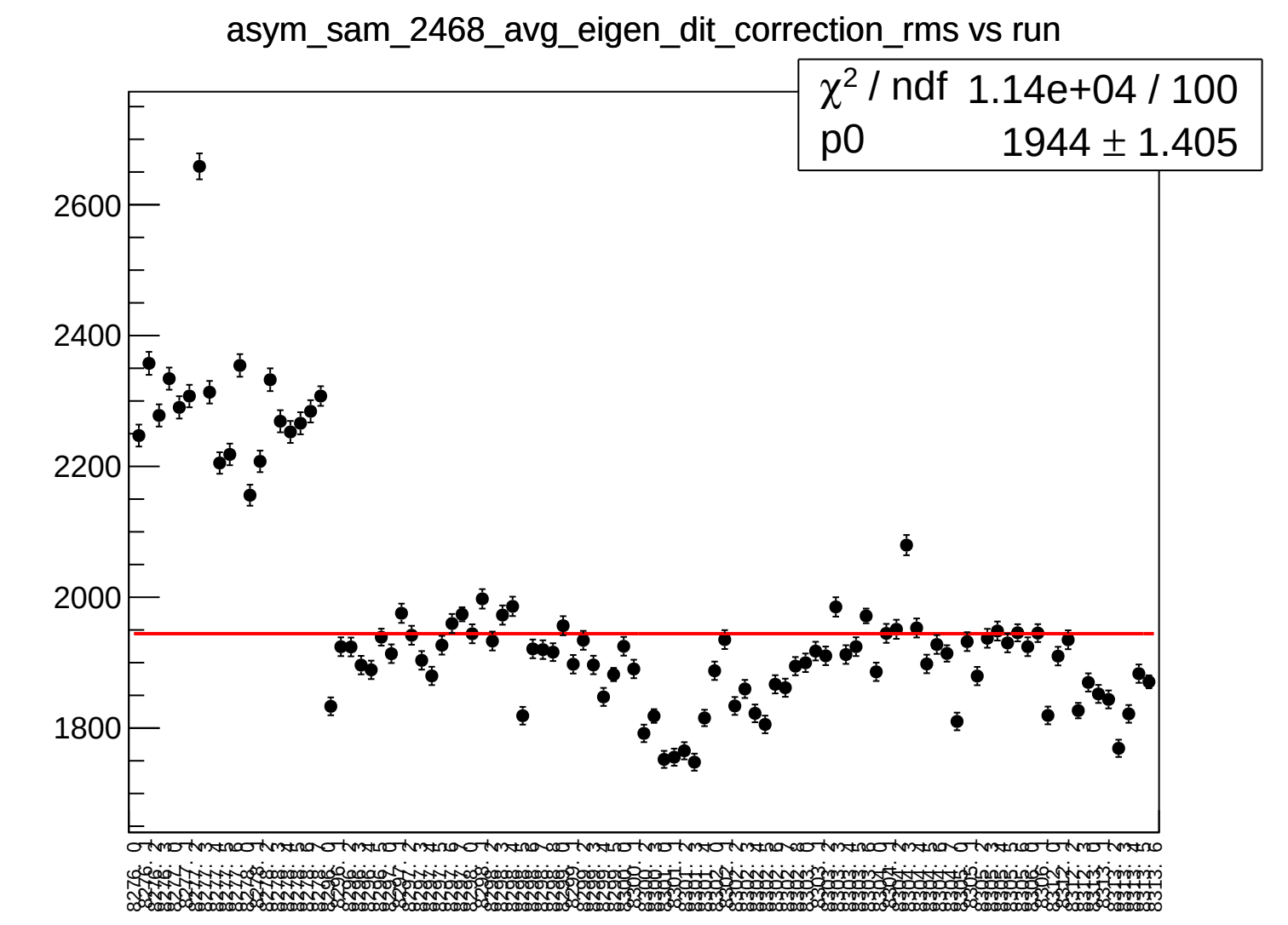

eigen_dit_asym_sam_2468_avg_mean vs run
χ^2 / ndf 94.74 / 100
p0 29.03 ± 149.4
pull
Entries 101
Mean 85.44
Std Dev 71.31

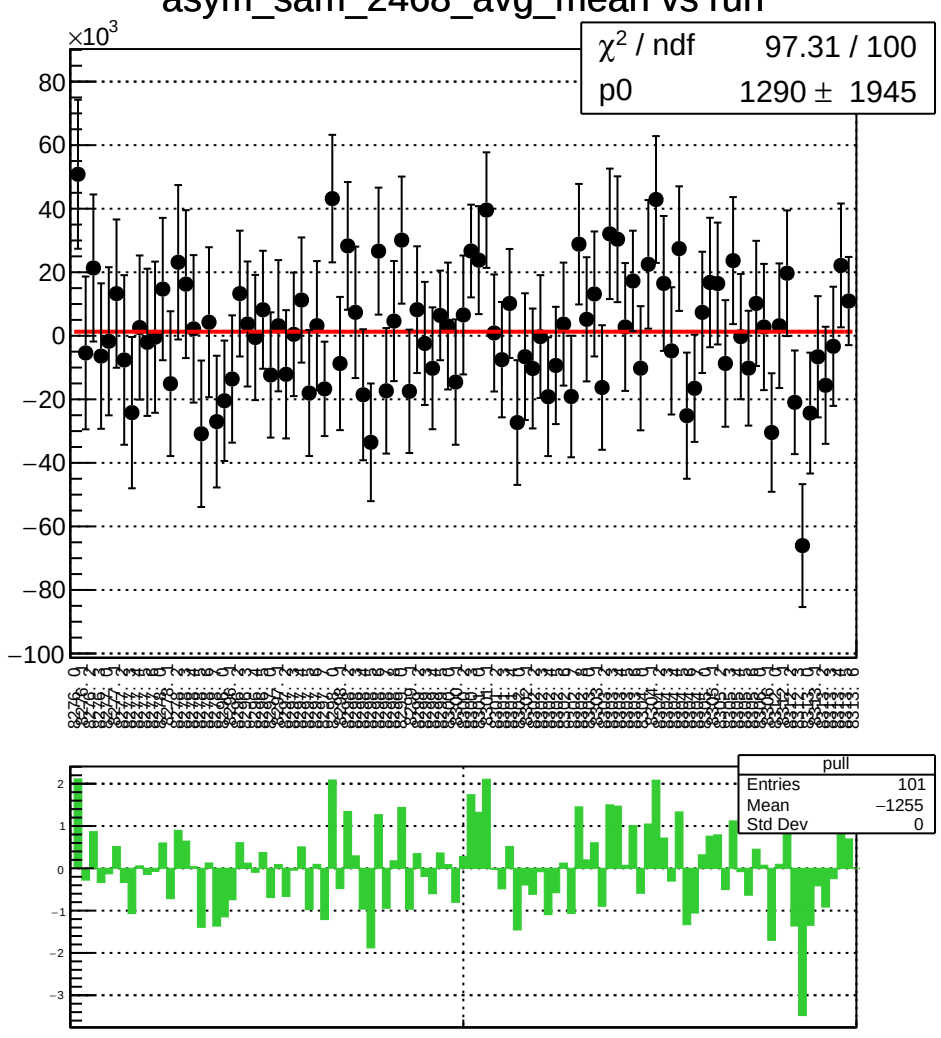

pull1D
Entries 101
Mean 0.007853
Std Dev 0.9685

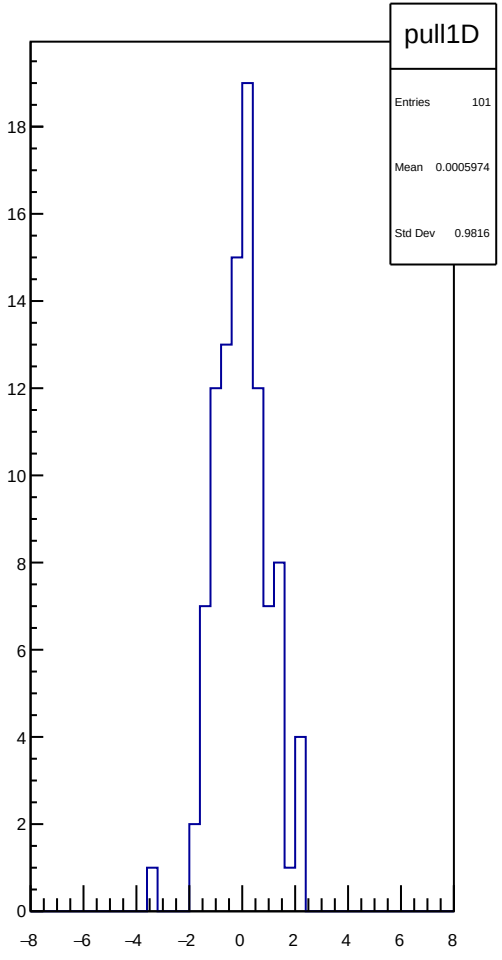

eigen_dit_asym_sam_2468_avg_rms vs run
χ² / ndf 3.401e+04 / 100
p0 145.3 ± 0.1056
260
240
220
200
180
160
140
120

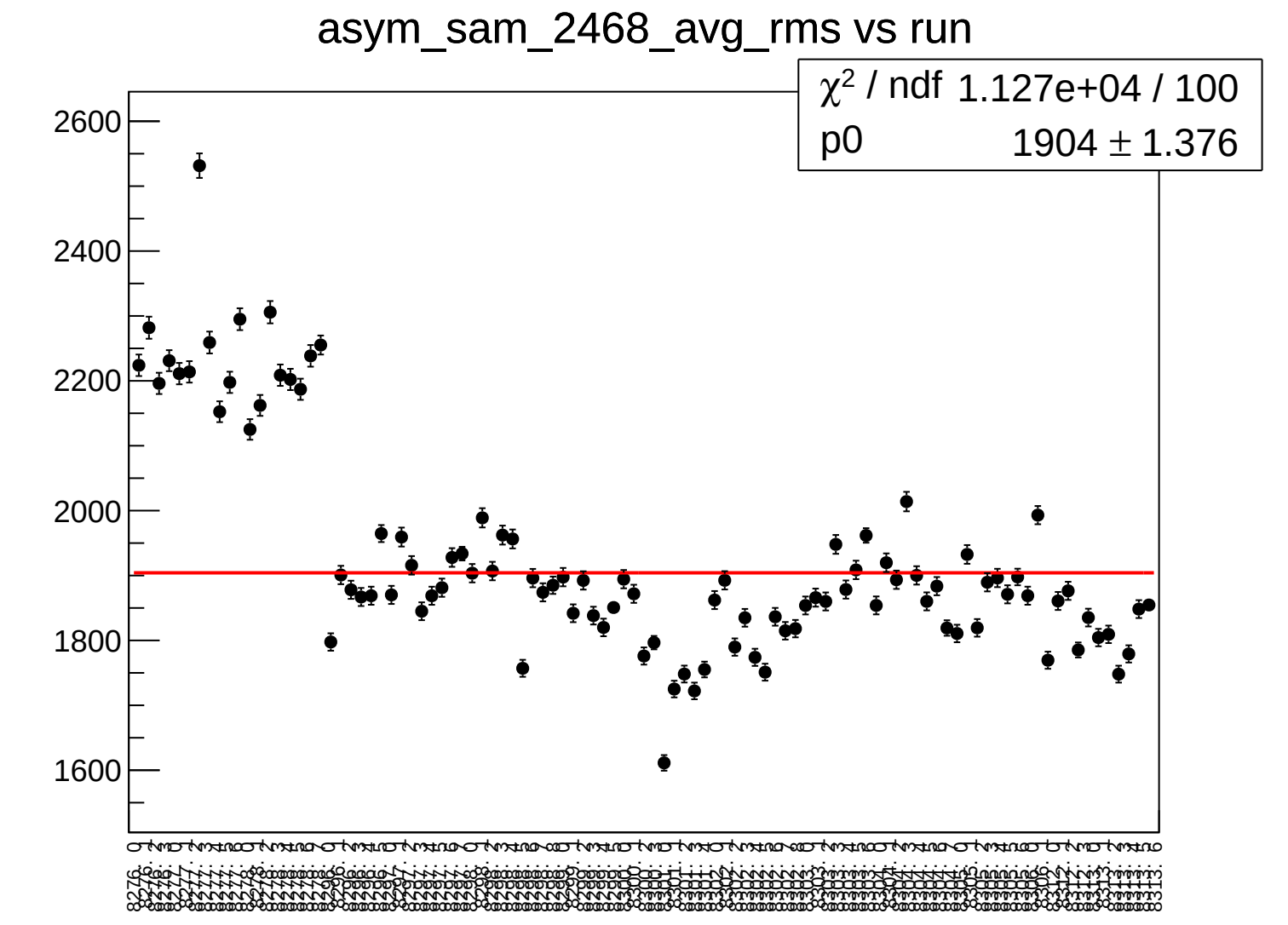

asym_sam_2468_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 98.49 / 100
p0 −1300 ± 1986
pull
Entries 101
Mean 831.9
Std Dev 0

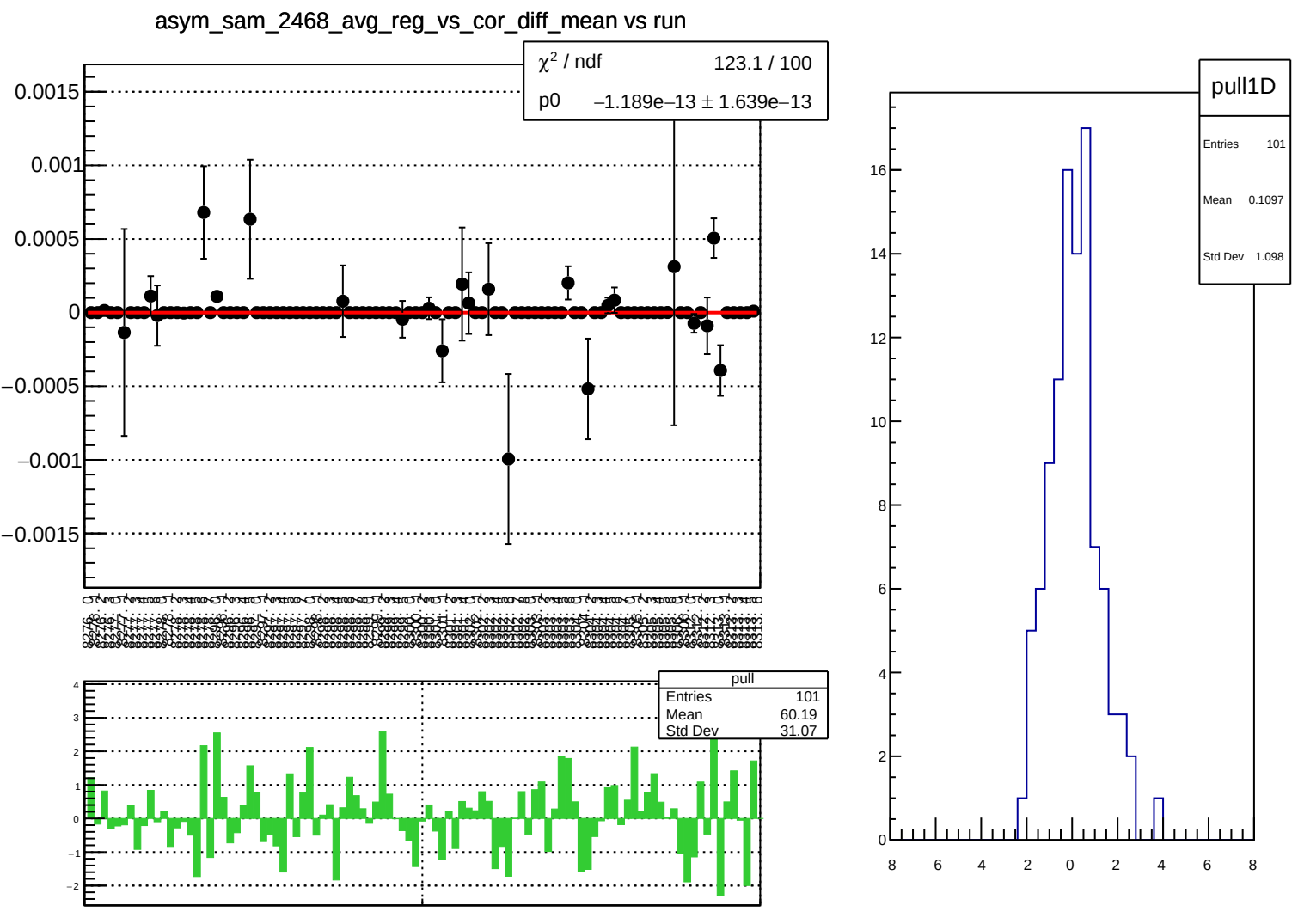

pull1D
Entries 101
Mean 0.001021
Std Dev 0.9875

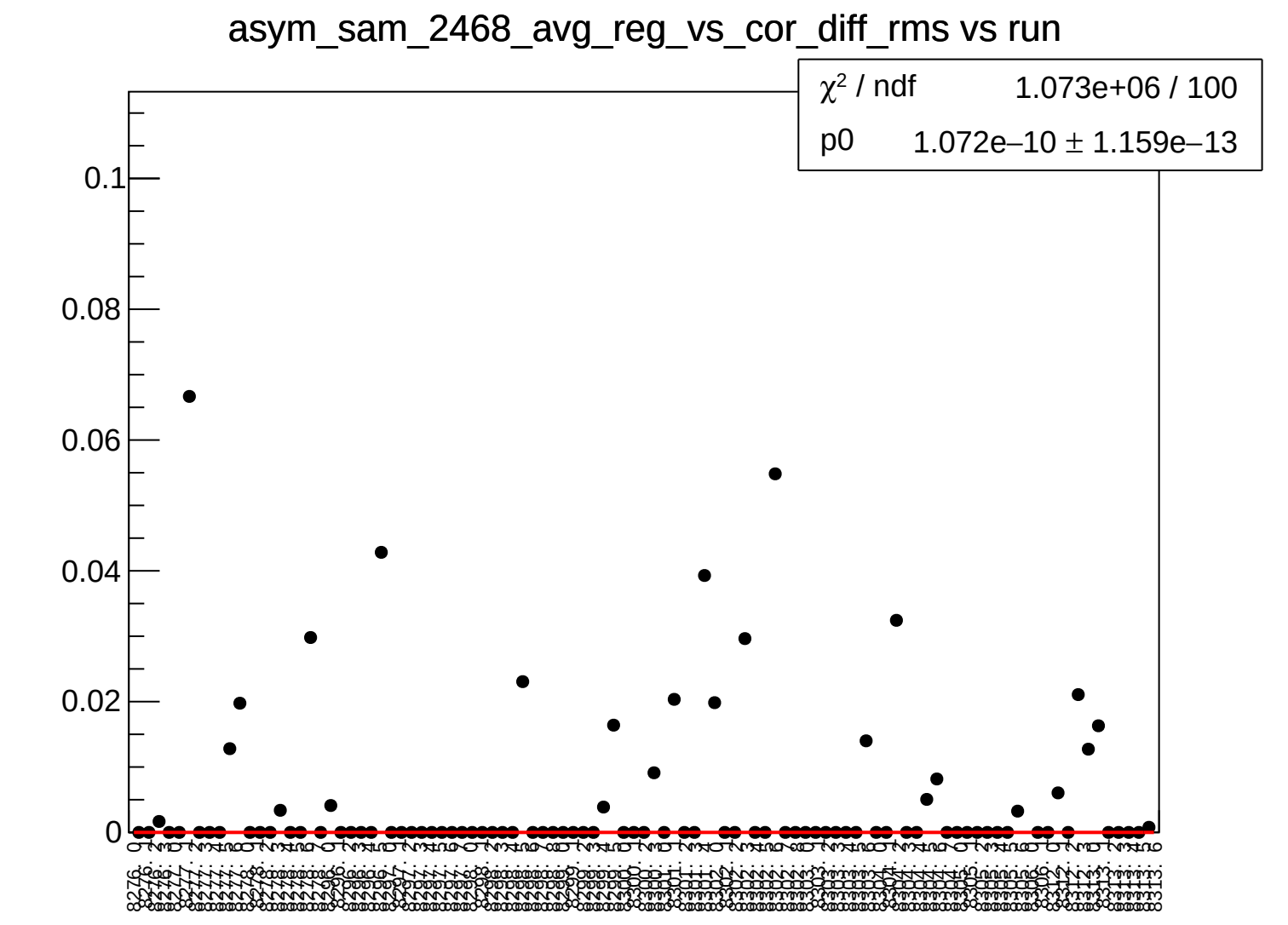

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.14e+04 / 100
p0 1944 ± 1.405
2600
2400
2200
2000
1800

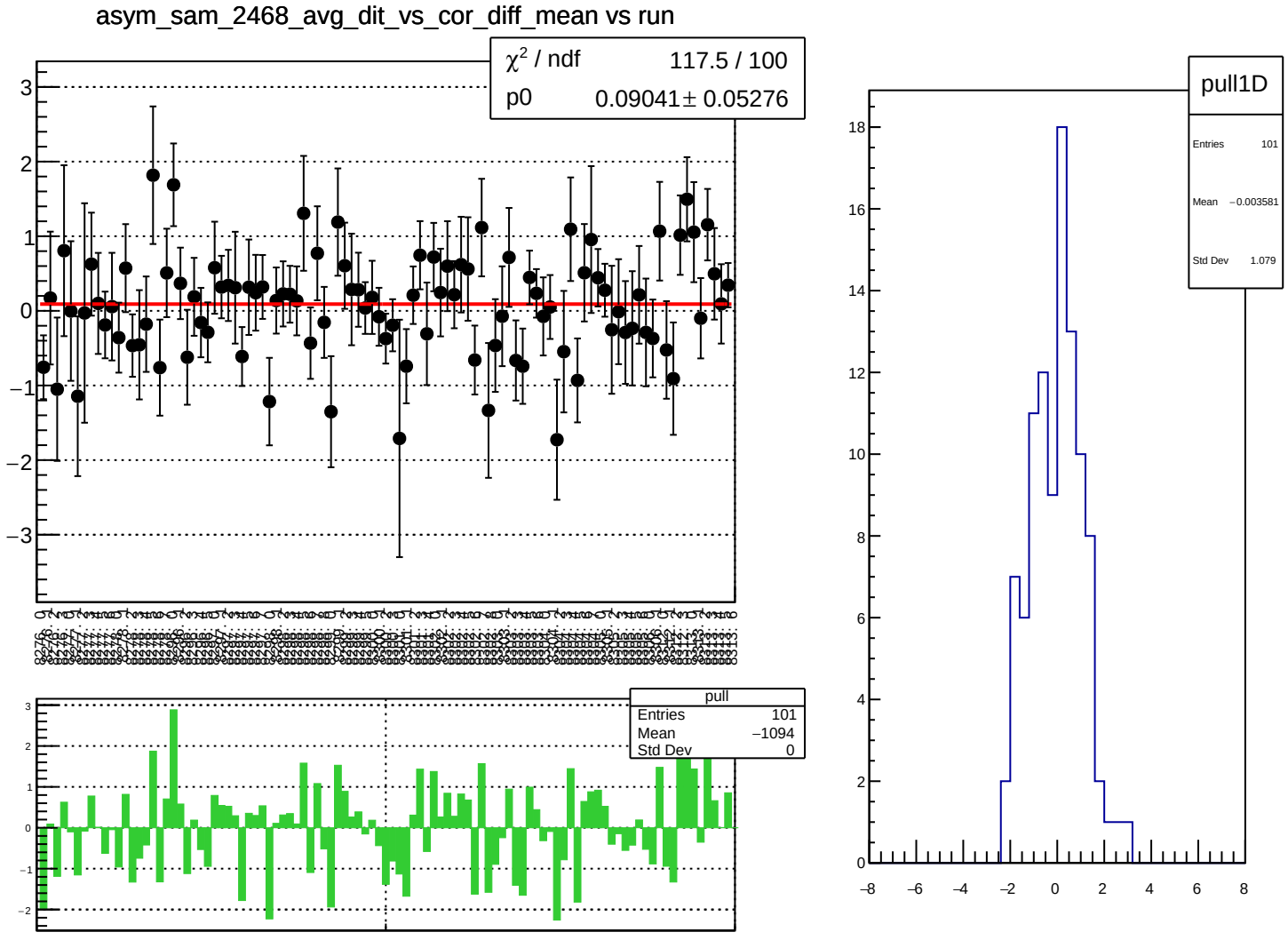

asym_sam_2468_avg_mean vs run
×10^3
χ^2 / ndf 97.31 / 100
p0 1290 ± 1945
pull
Entries 101
Mean −1255
Std Dev 0

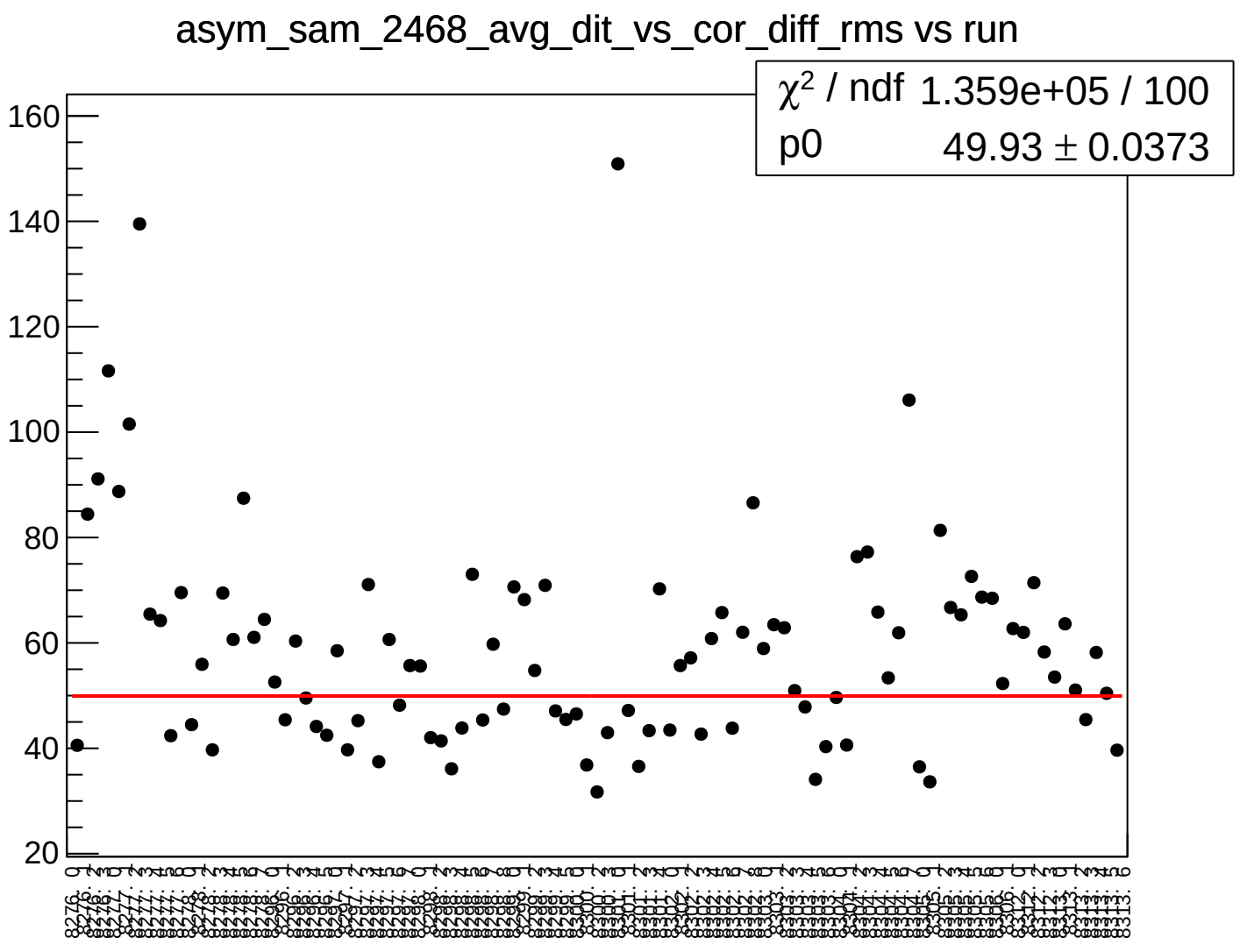

pull1D
Entries 101
Mean 0.0005974
Std Dev 0.9816

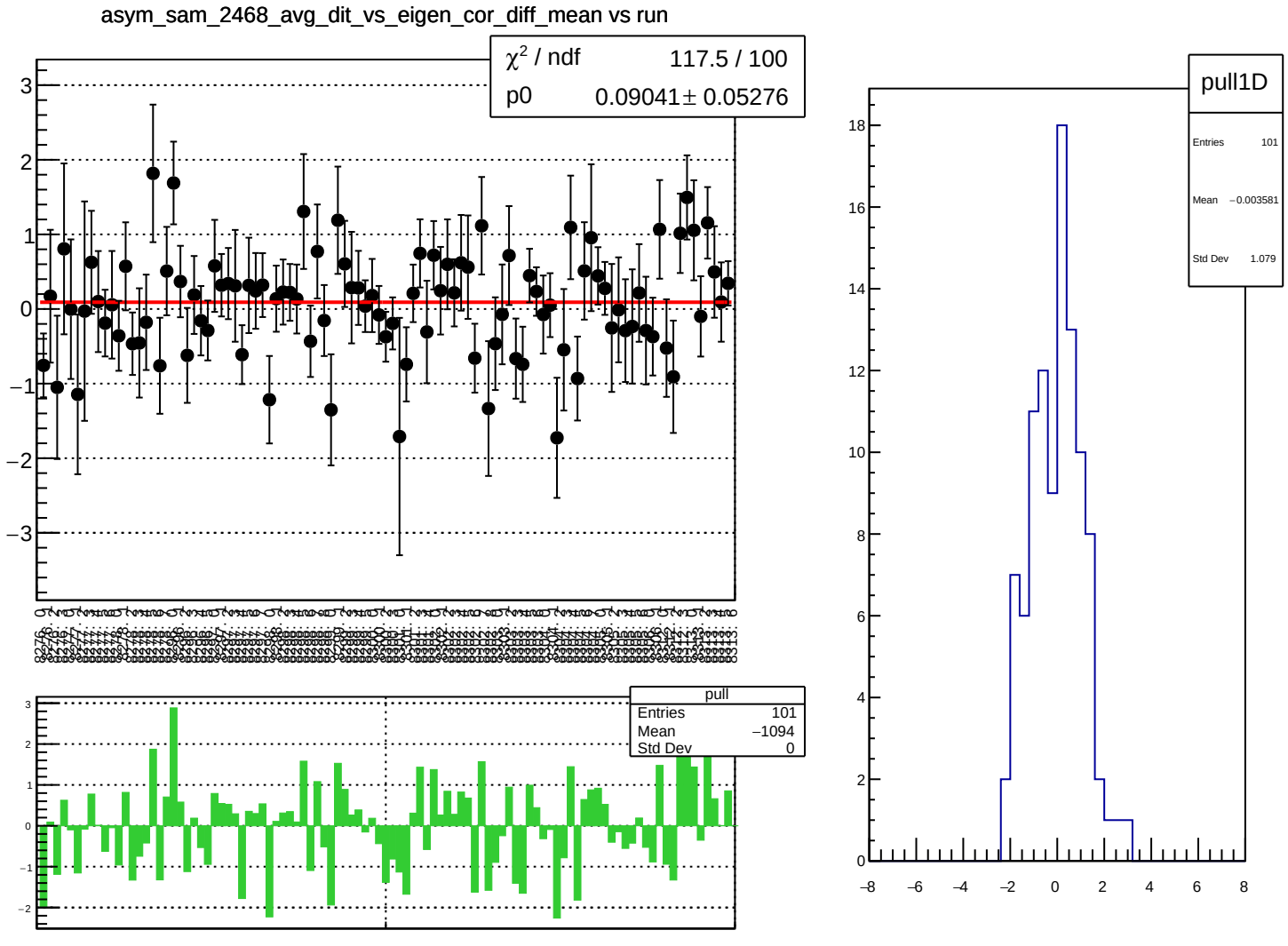

asym_sam_2468_avg_rms vs run
χ² / ndf 1.127e+04 / 100
p0 1904 ± 1.376
2600
2400
2200
2000
1800
1600

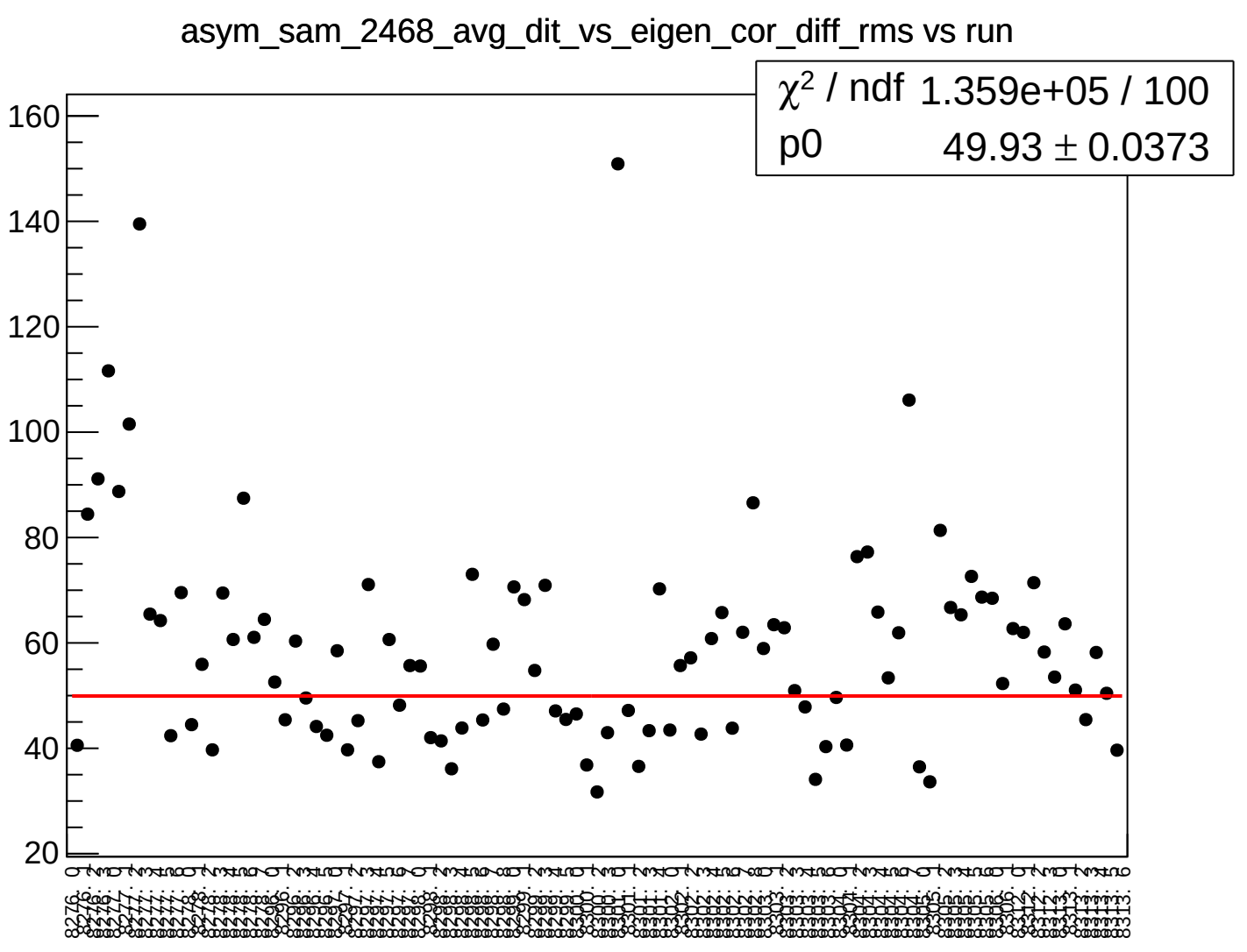

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 123.1 / 100
p0 −1.189e−13 ± 1.639e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 101
Mean 60.19
Std Dev 31.07
pull1D
Entries 101
Mean 0.1097
Std Dev 1.098

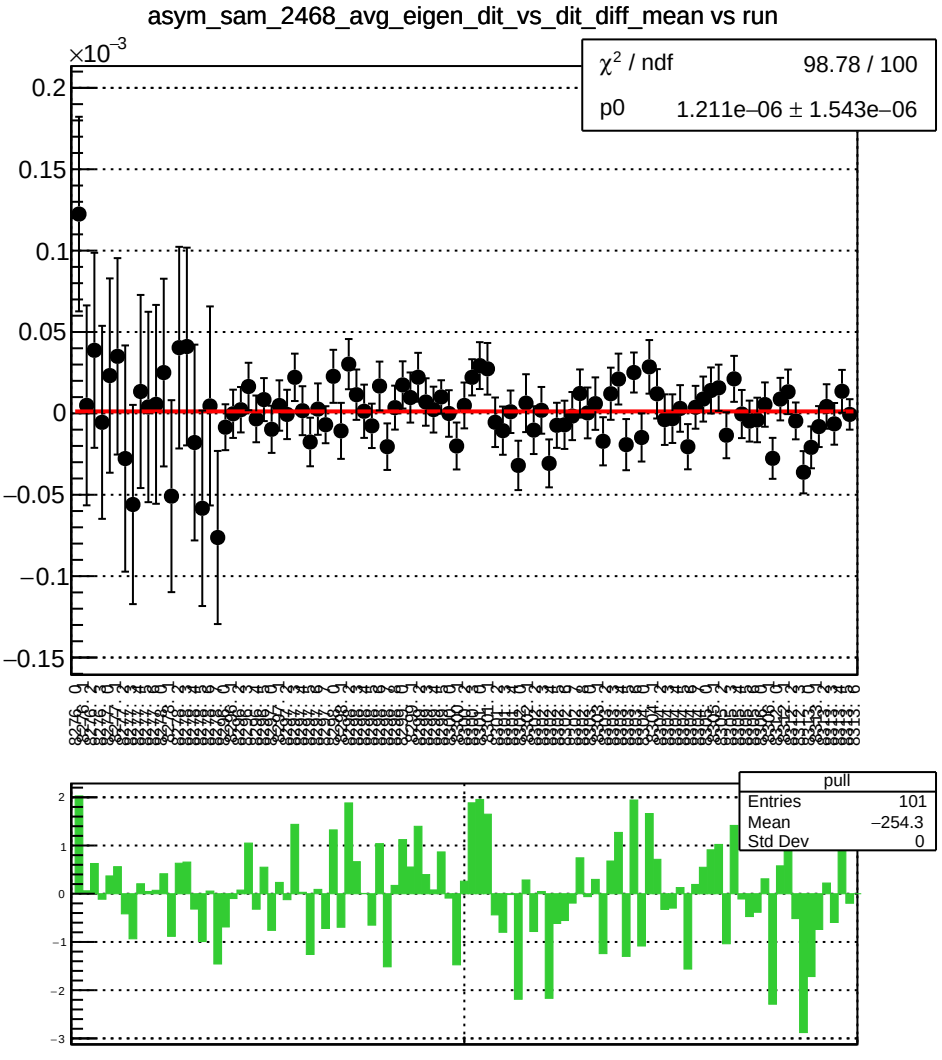

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.073e+06 / 100
p0 1.072e−10 ± 1.159e−13
0.1
0.08
0.06
0.04
0.02
0

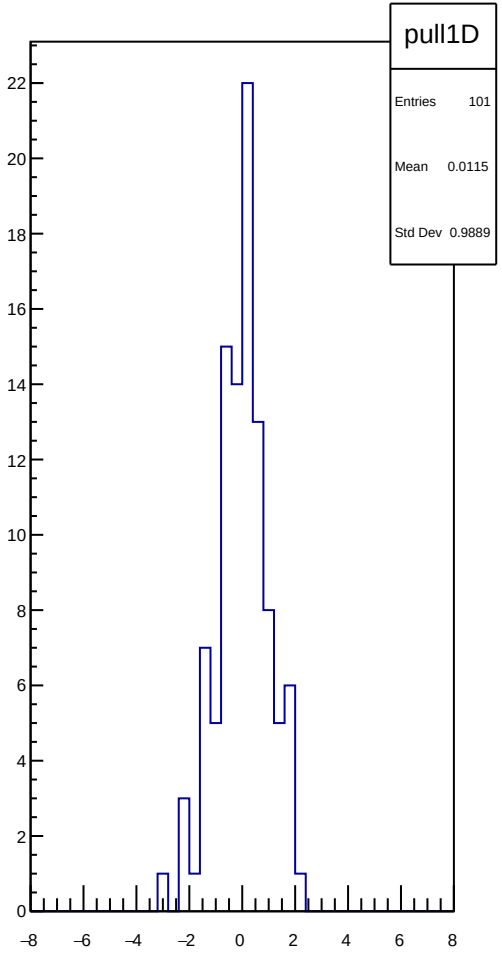

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 117.5 / 100
p0 0.09041 ± 0.05276
pull
Entries 101
Mean −1094
Std Dev 0
pull1D
Entries 101
Mean −0.003581
Std Dev 1.079

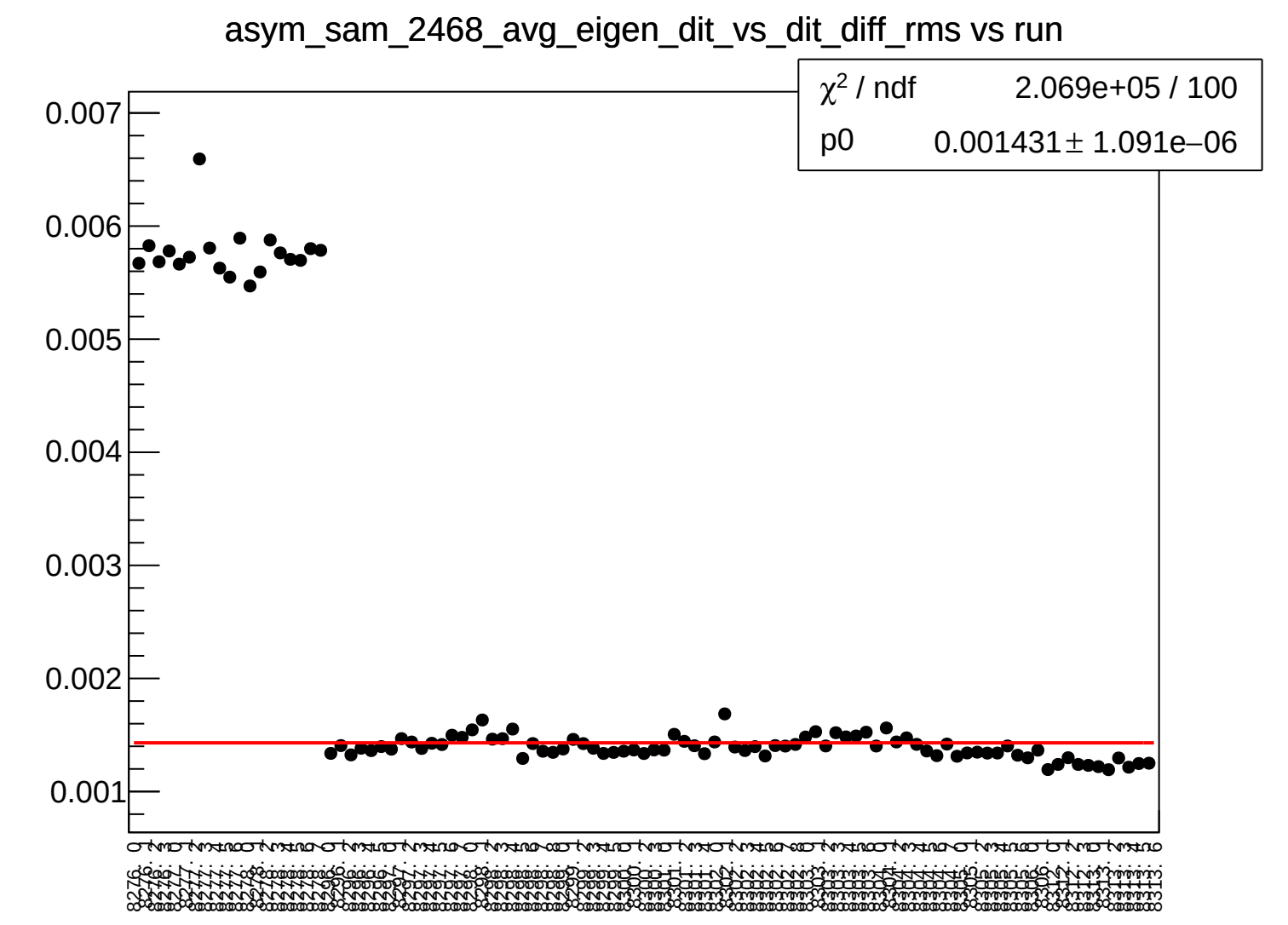

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.359e+05 / 100
p0 49.93 ± 0.0373
160
140
120
100
80
60
40
20

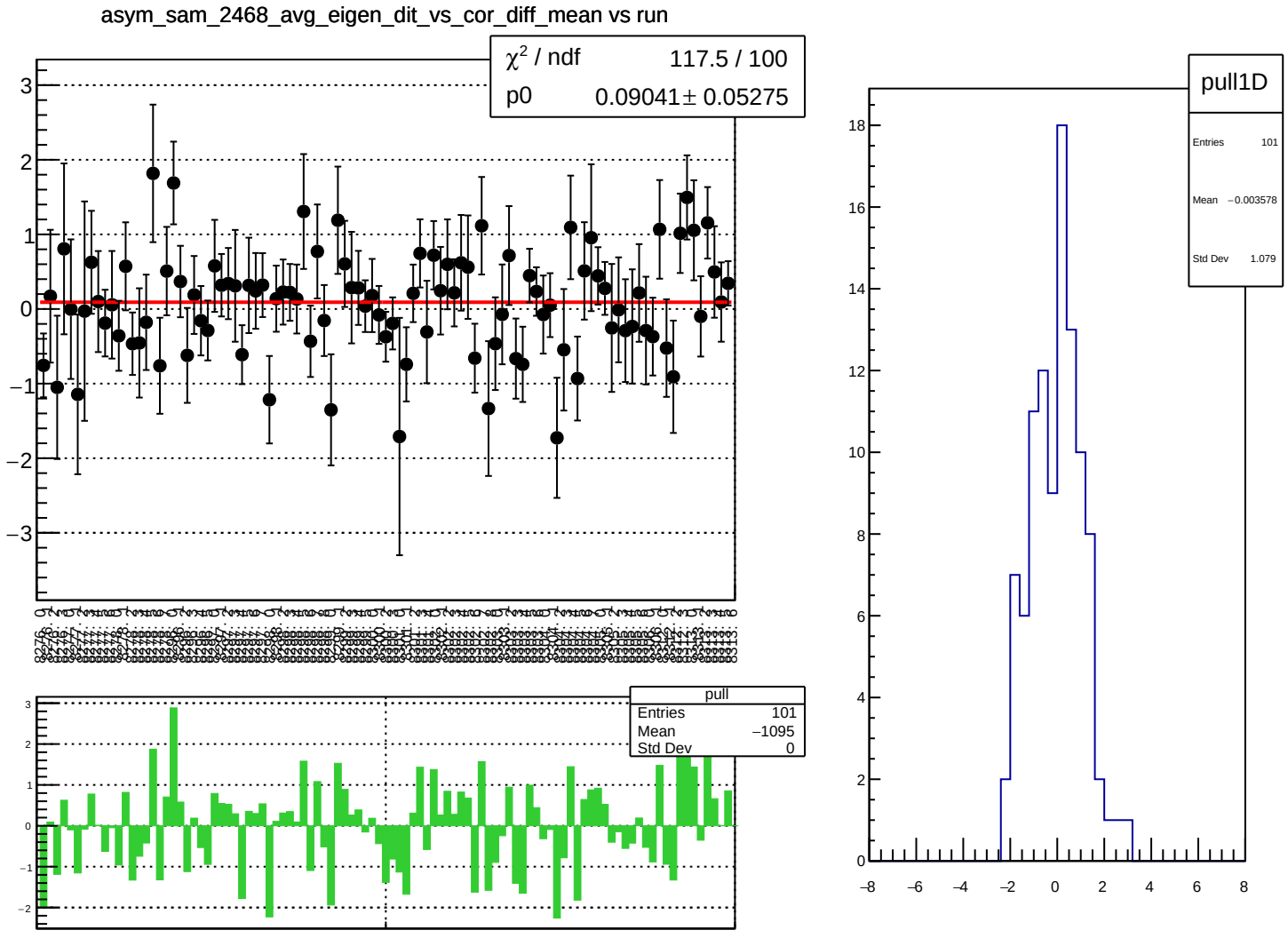

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 117.5 / 100
p0 0.09041 ± 0.05276
pull
Entries 101
Mean −1094
Std Dev 0
pull1D
Entries 101
Mean −0.003581
Std Dev 1.079

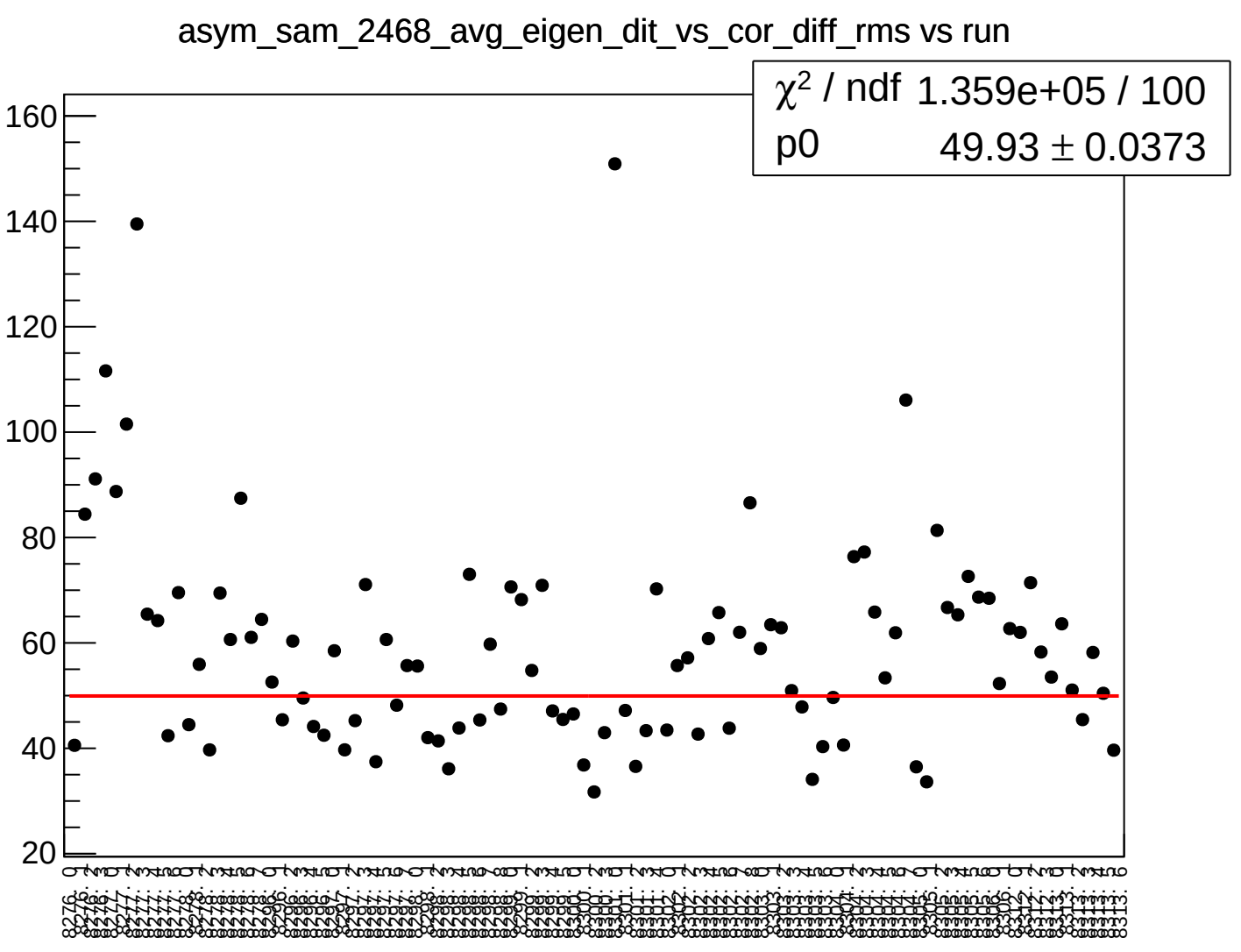

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.359e+05 / 100
p0 49.93 ± 0.0373
160
140
120
100
80
60
40
20

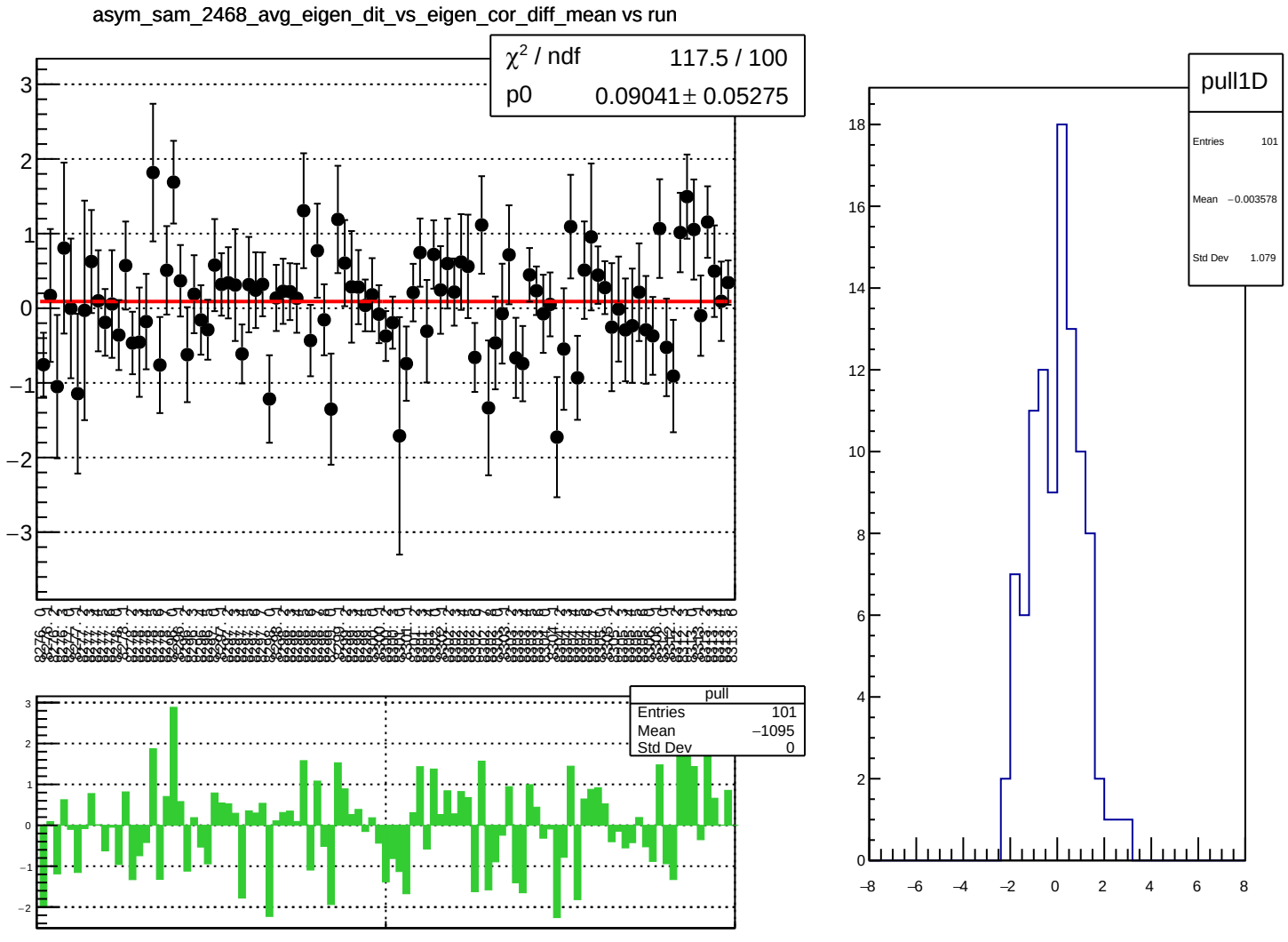

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.78 / 100
p0 1.211e−06 ± 1.543e−06
pull
Entries 101
Mean −254.3
Std Dev 0

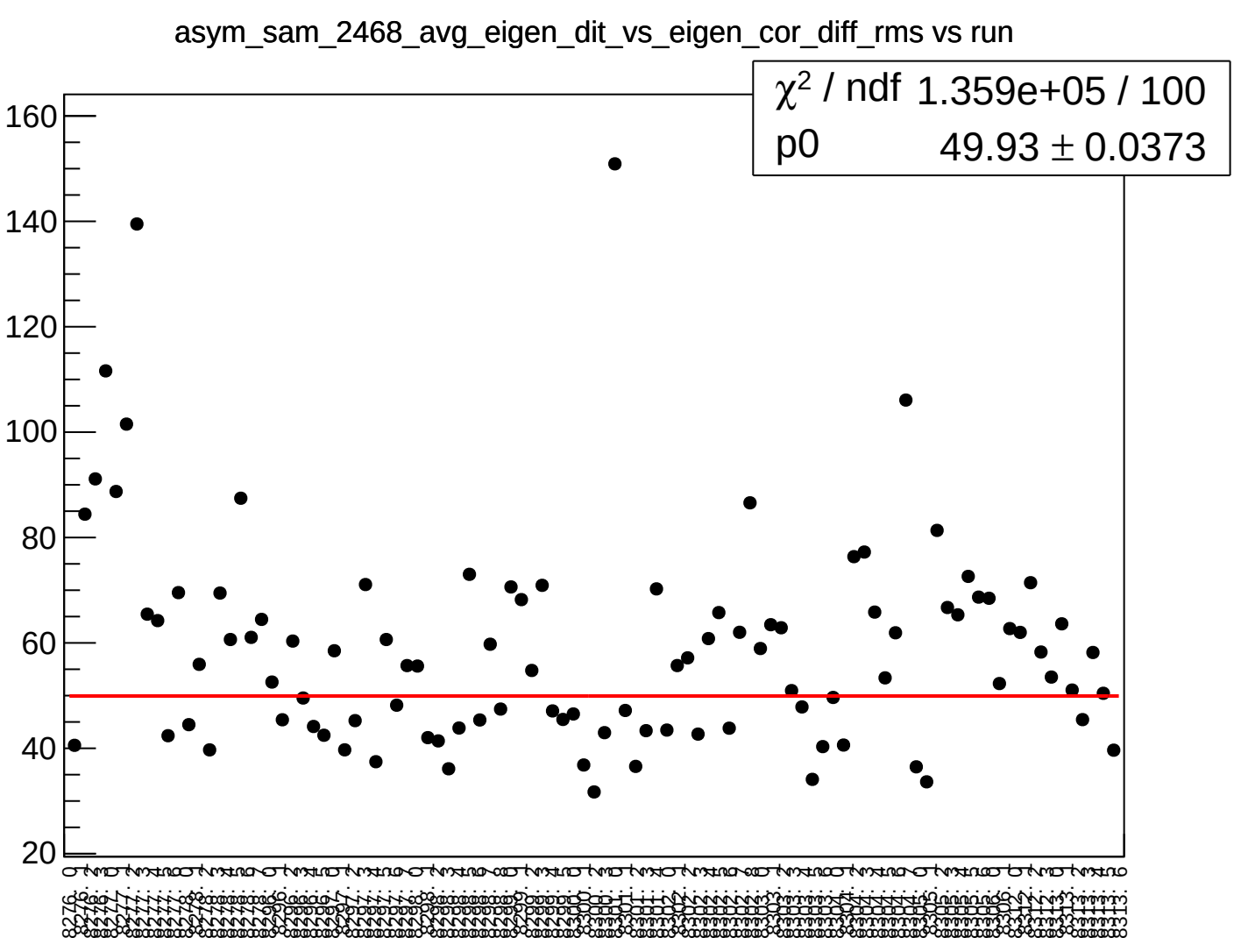

pull1D
Entries 101
Mean 0.0115
Std Dev 0.9889

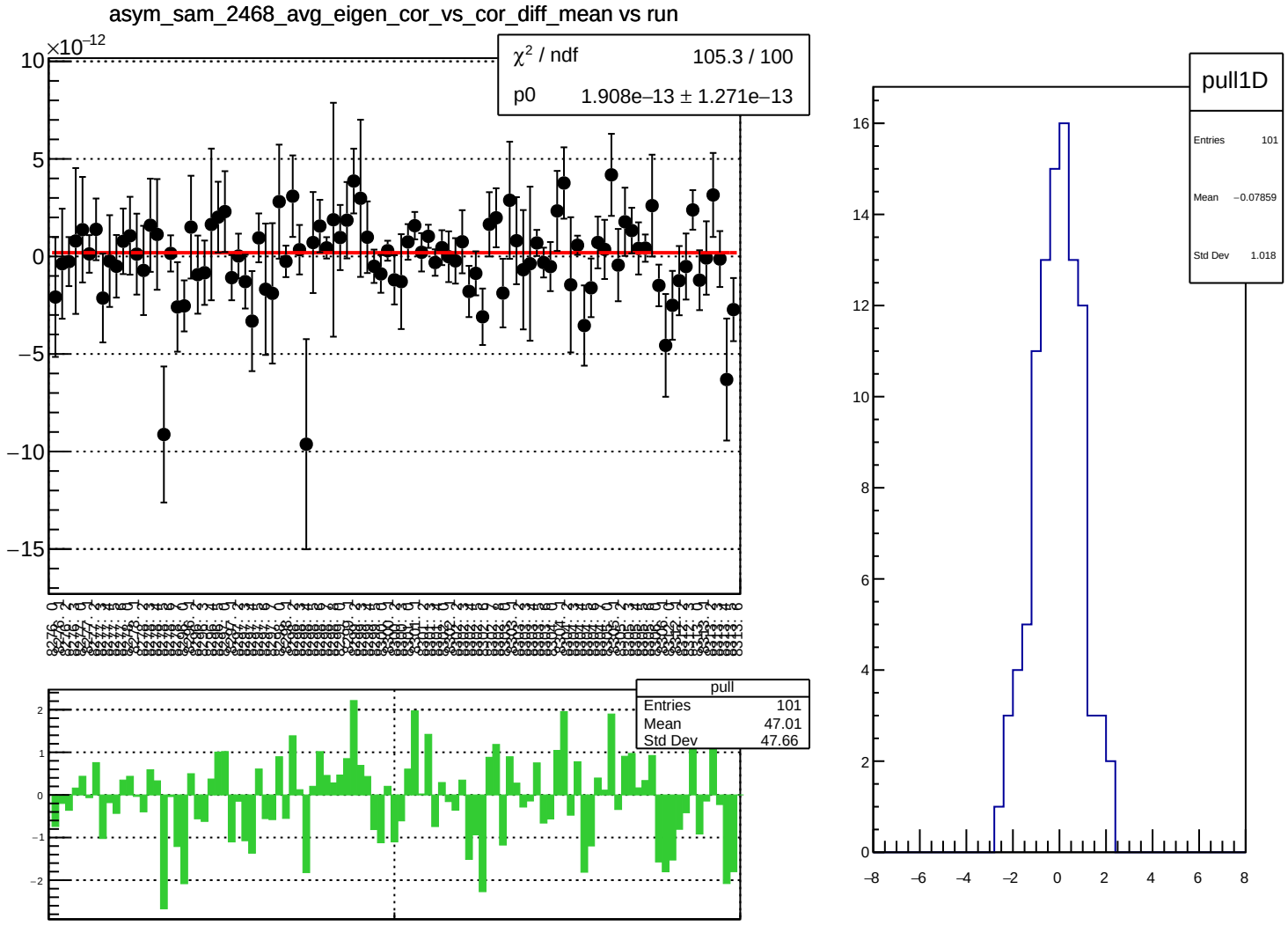

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.069e+05 / 100
p0 0.001431 ± 1.091e−06
0.007
0.006
0.005
0.004
0.003
0.002
0.001

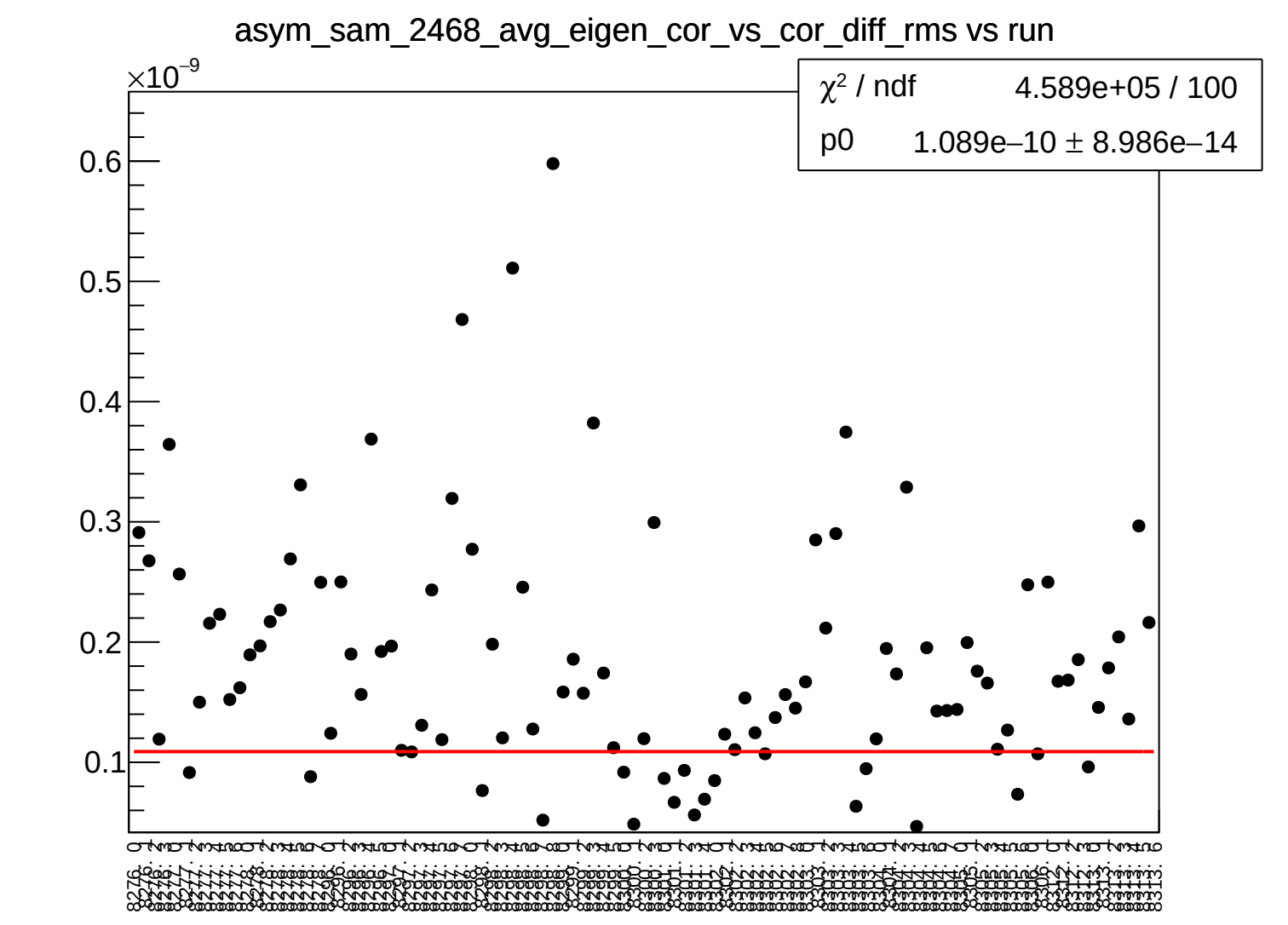

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 117.5 / 100
p0 0.09041 ± 0.05275
pull
Entries 101
Mean −1095
Std Dev 0
pull1D
Entries 101
Mean −0.003578
Std Dev 1.079

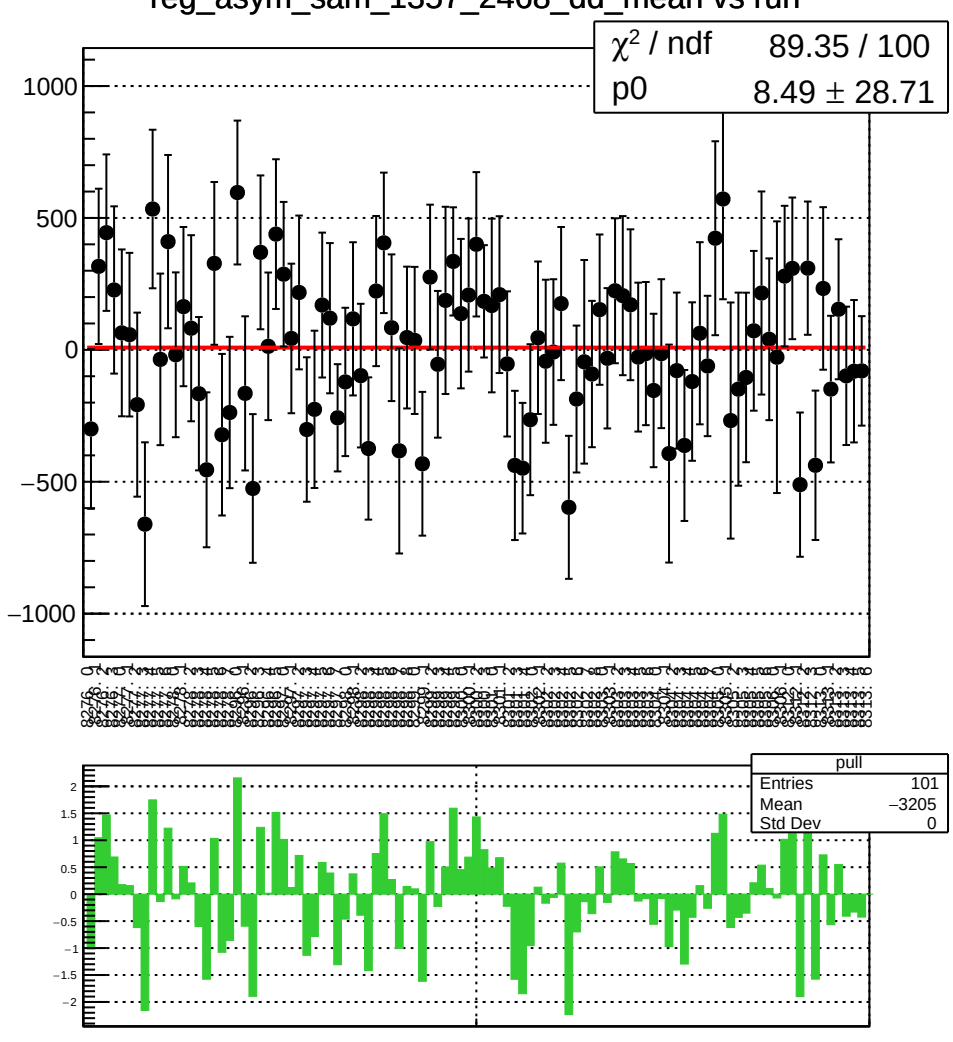

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.359e+05 / 100
p0 49.93 ± 0.0373
160
140
120
100
80
60
40
20

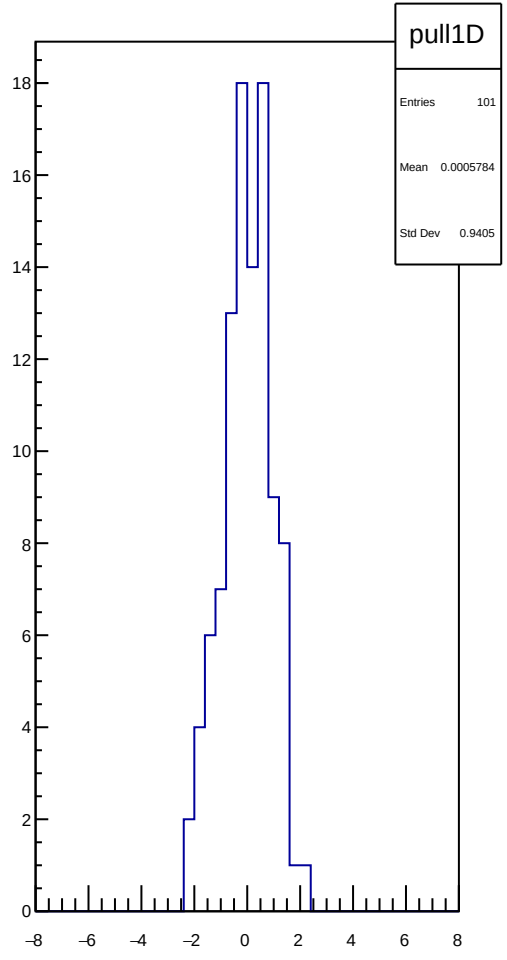

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 117.5 / 100
p0 0.09041 ± 0.05275
pull
Entries 101
Mean −1095
Std Dev 0
pull1D
Entries 101
Mean −0.003578
Std Dev 1.079

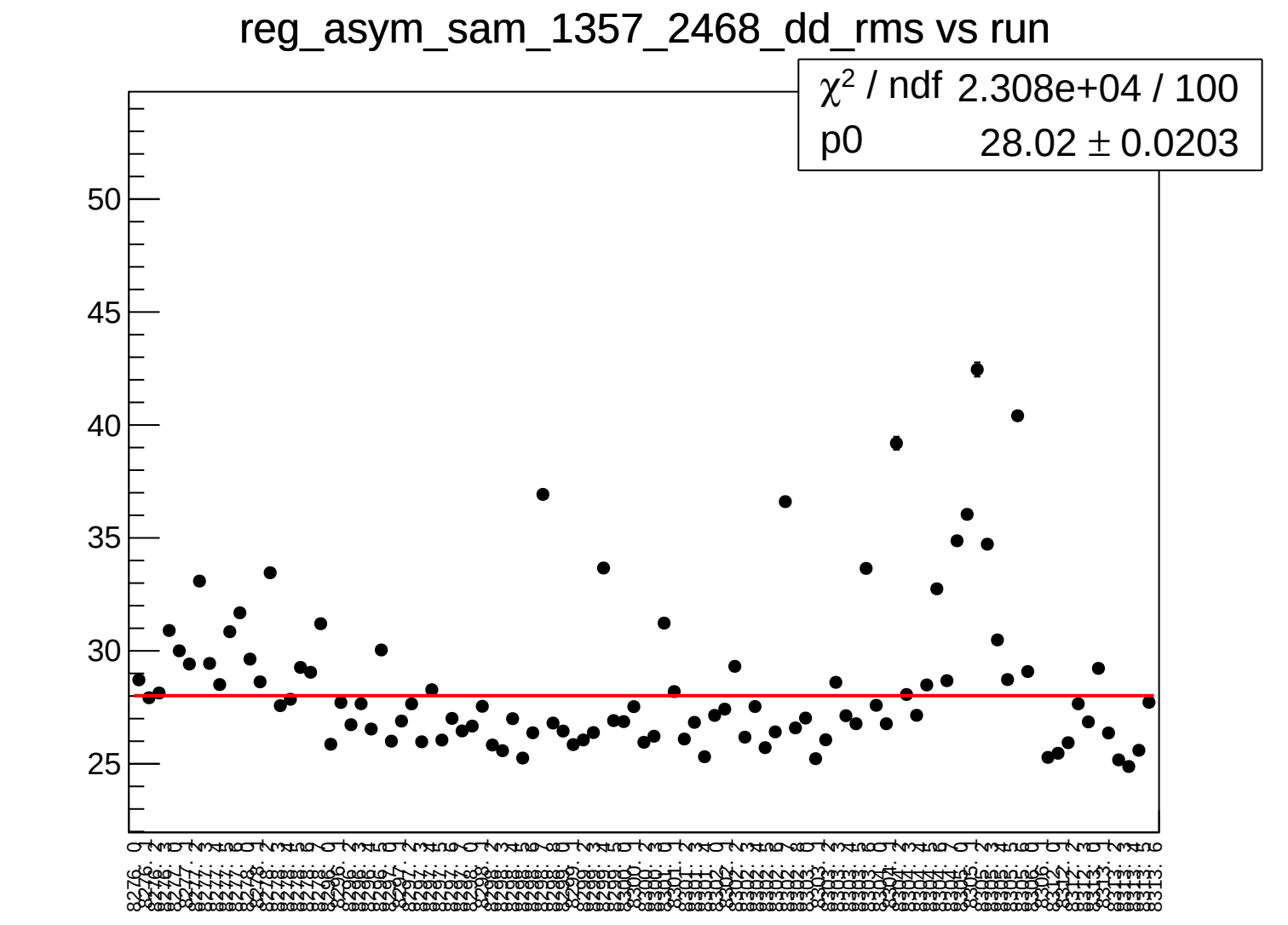

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.359e+05 / 100
p0 49.93 ± 0.0373
160
140
120
100
80
60
40
20

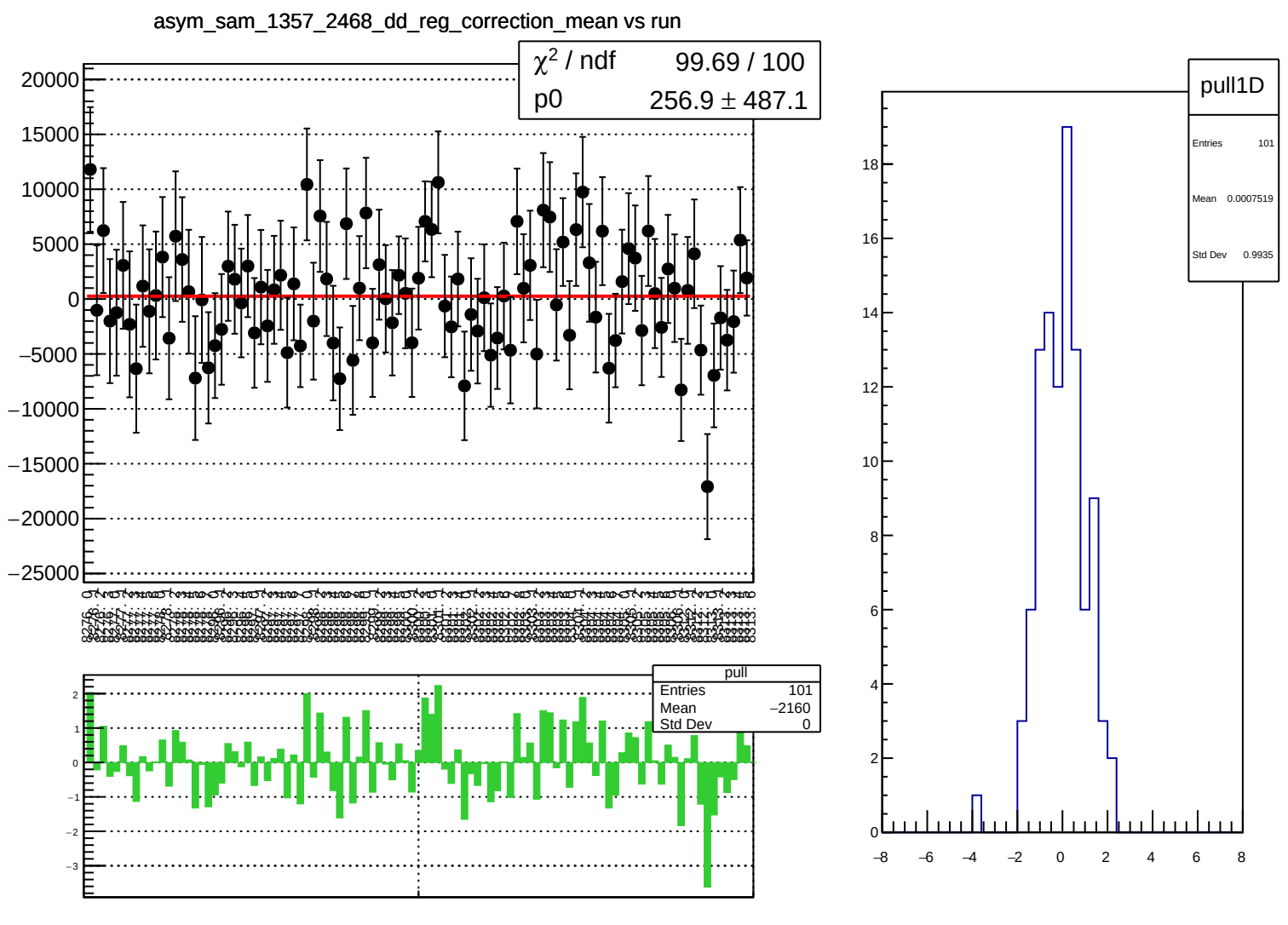

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 105.3 / 100
p0 1.908e−13 ± 1.271e−13
pull
Entries 101
Mean 47.01
Std Dev 47.66
pull1D
Entries 101
Mean −0.07859
Std Dev 1.018

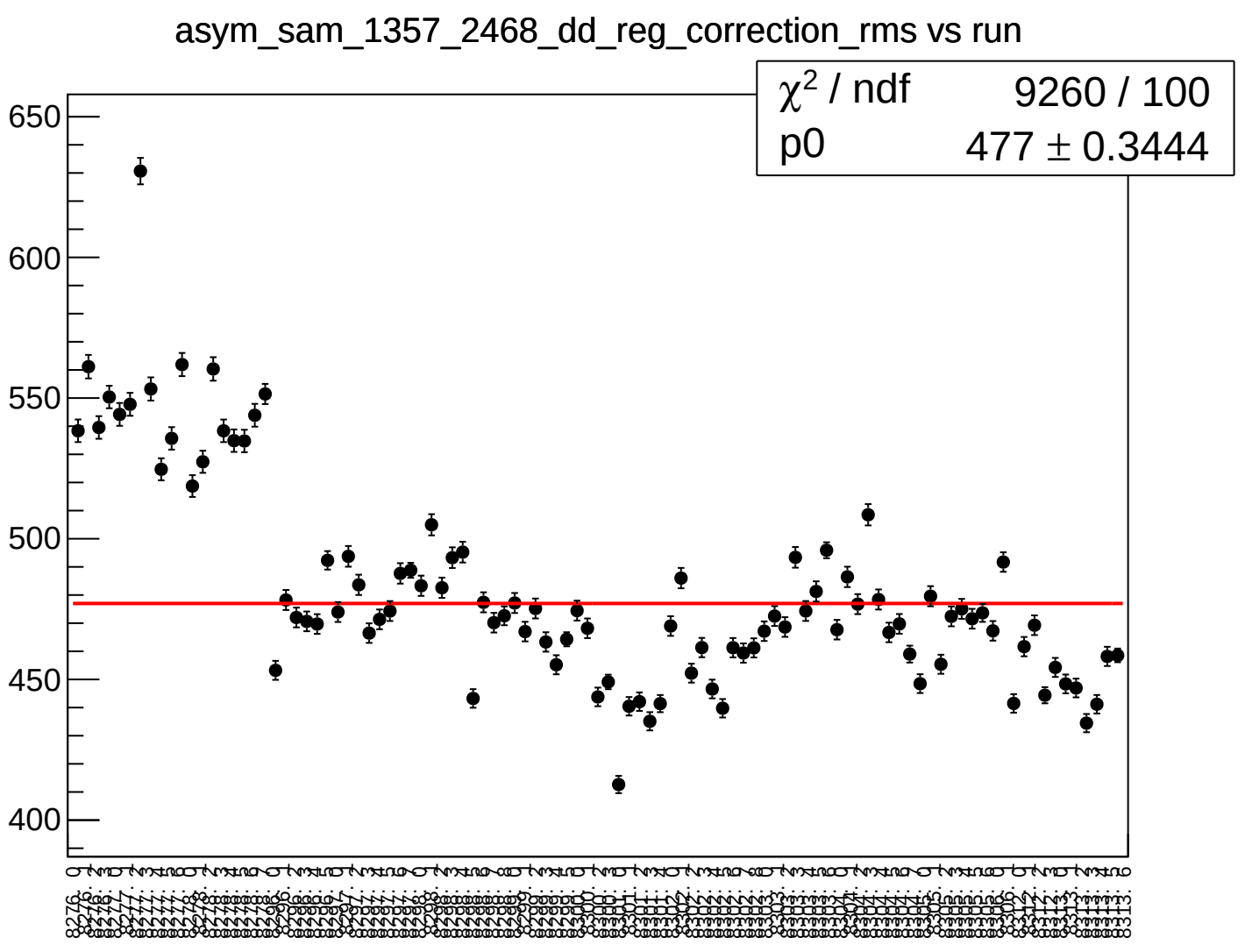

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.589e+05 / 100
p0 1.089e−10 ± 8.986e−14
0.6
0.5
0.4
0.3
0.2
0.1

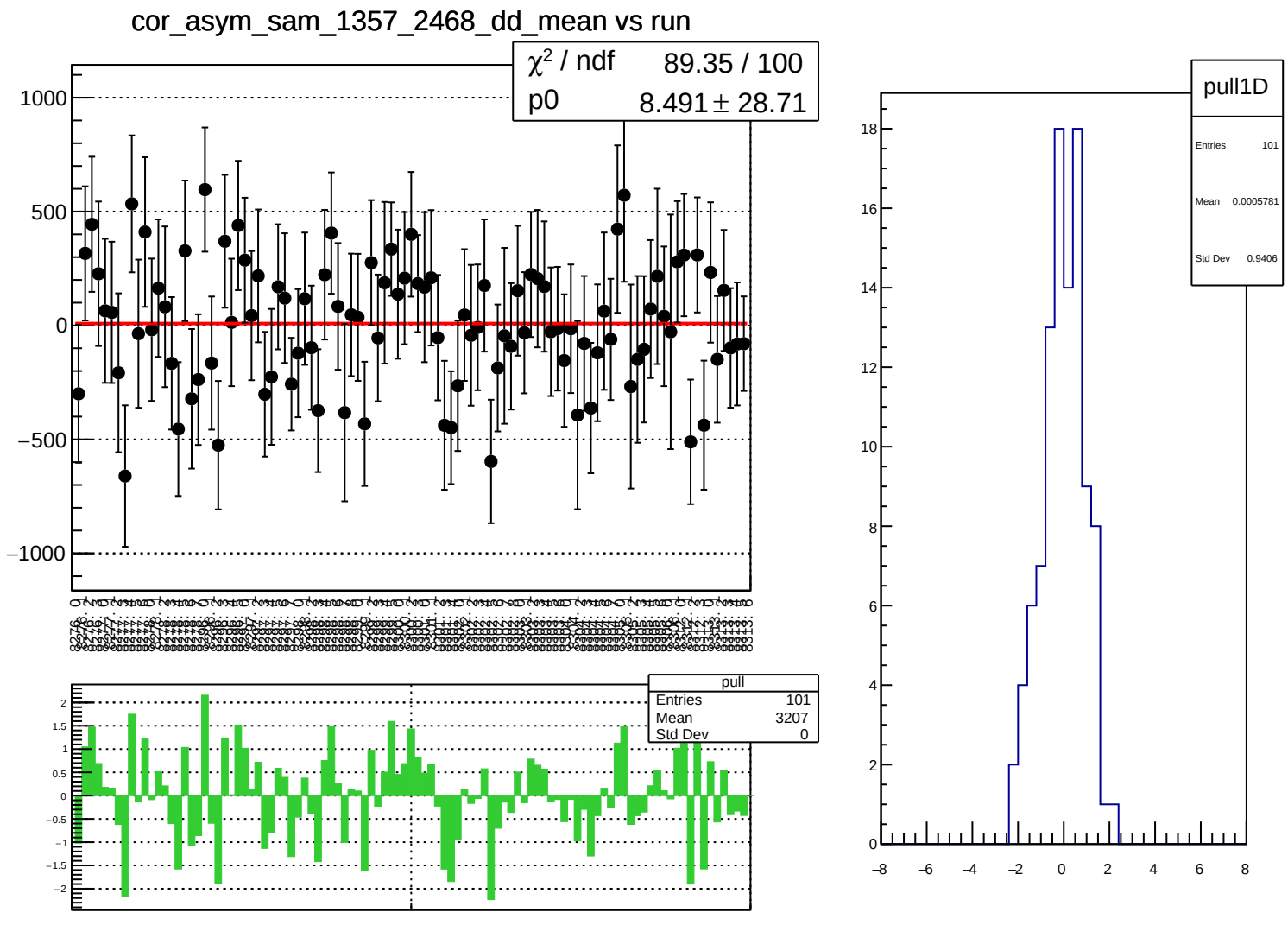

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 89.35 / 100
p0 8.49 ± 28.71
1000
500
0
−500
−1000
pull
Entries 101
Mean −3205
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

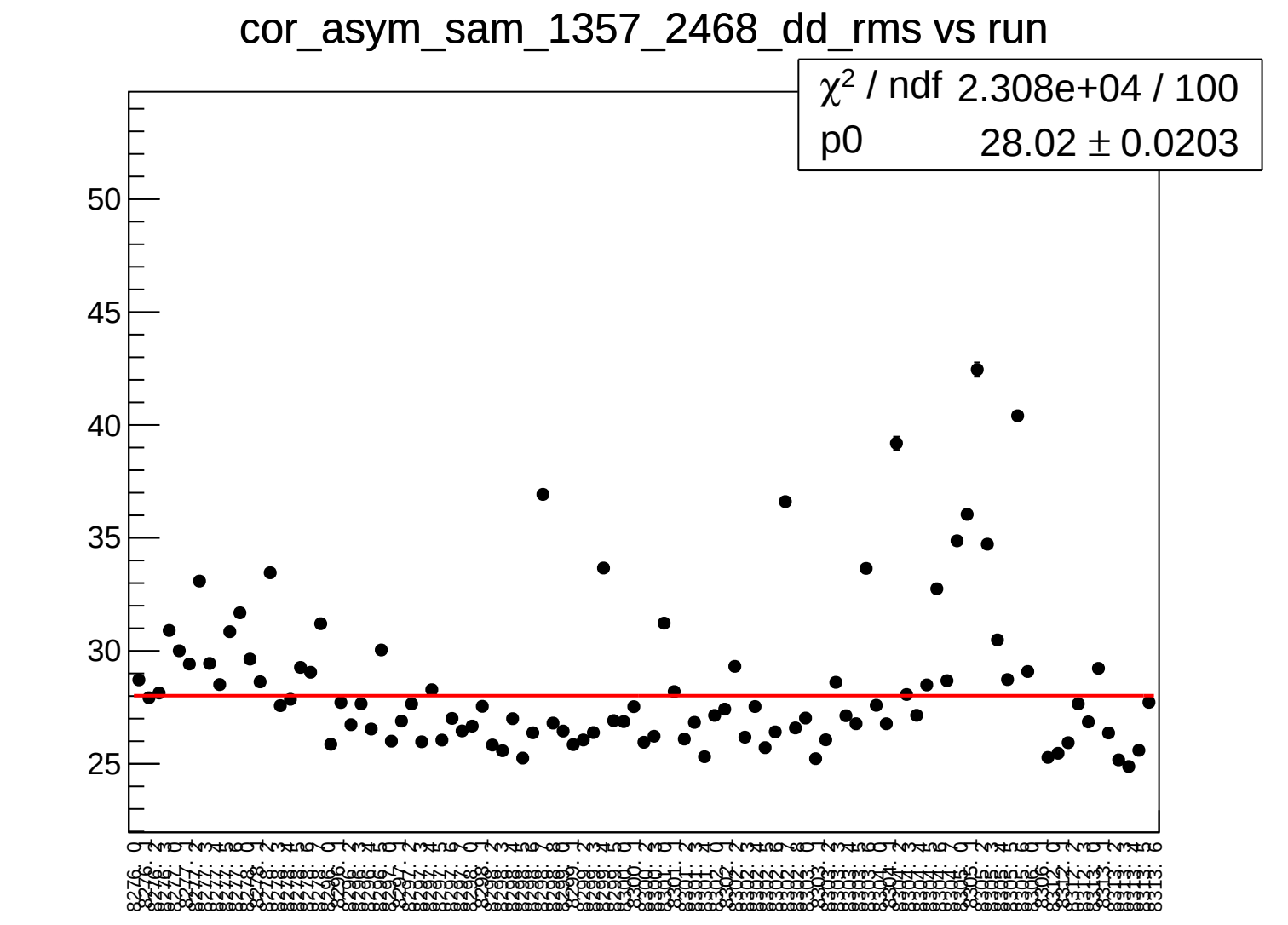

pull1D
Entries 101
Mean 0.0005784
Std Dev 0.9405
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

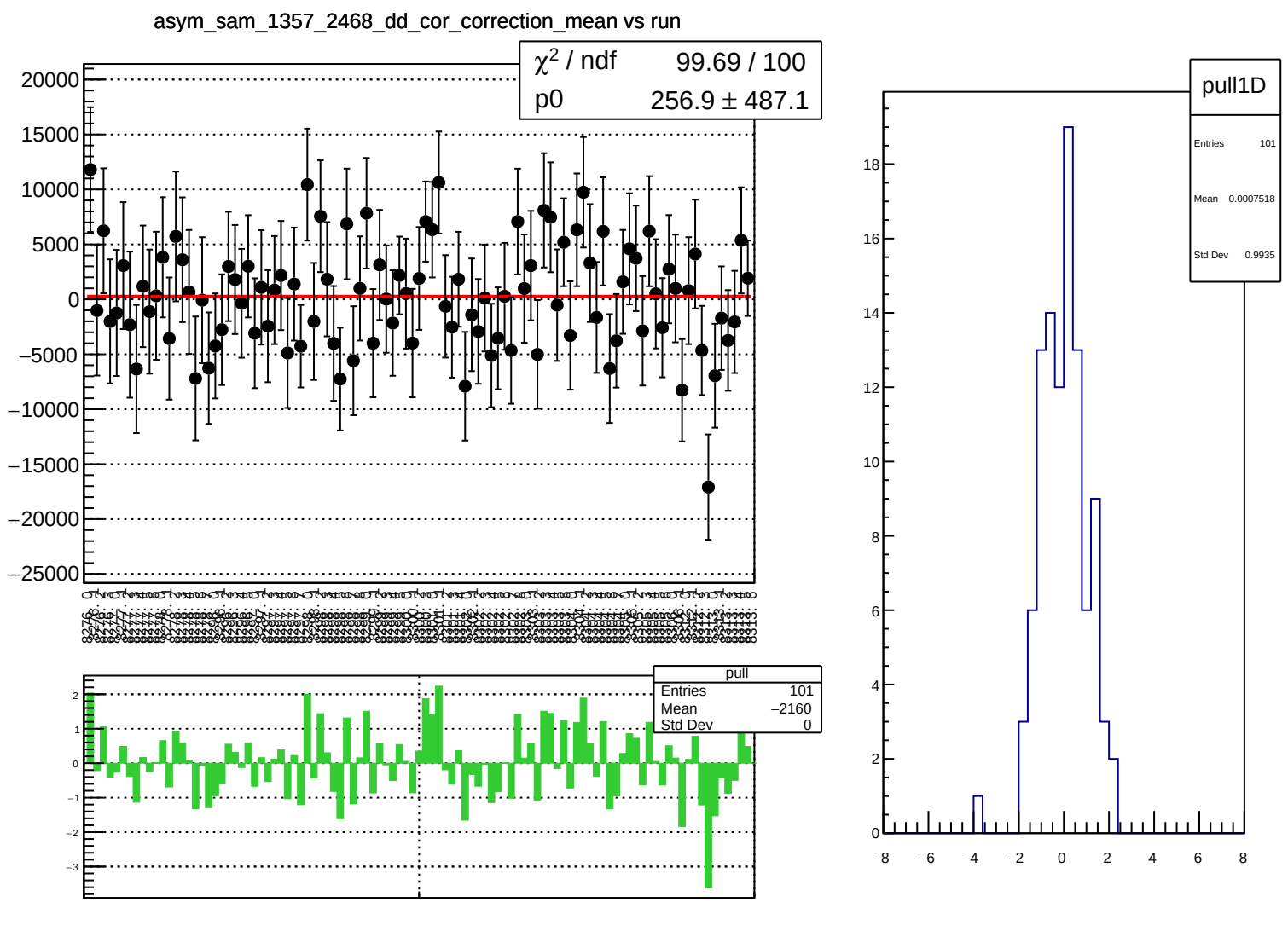

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.308e+04 / 100
p0 28.02 ± 0.0203
50
45
40
35
30
25

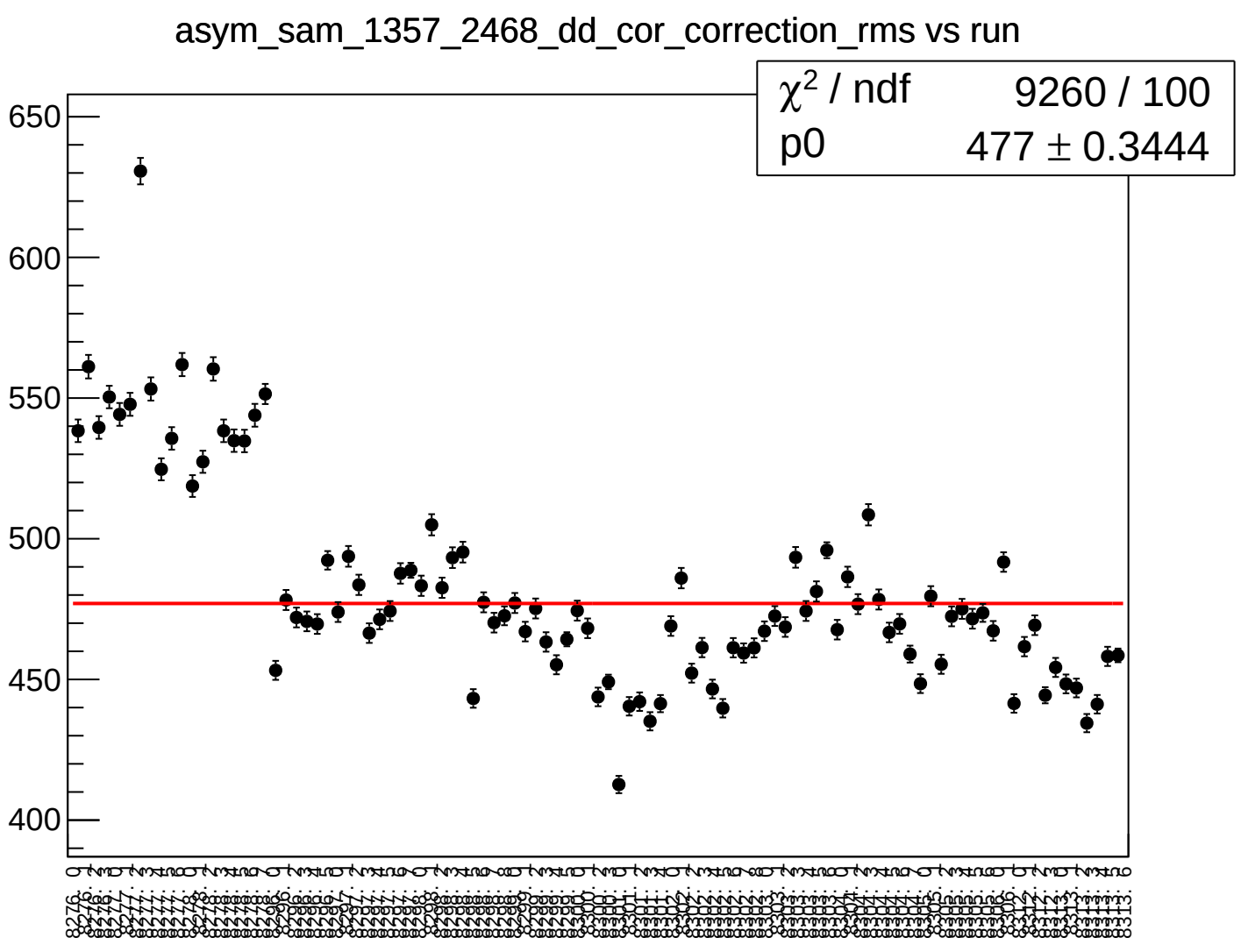

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 99.69 / 100
p0 256.9 ± 487.1
pull
Entries 101
Mean −2160
Std Dev 0
pull1D
Entries 101
Mean 0.0007519
Std Dev 0.9935

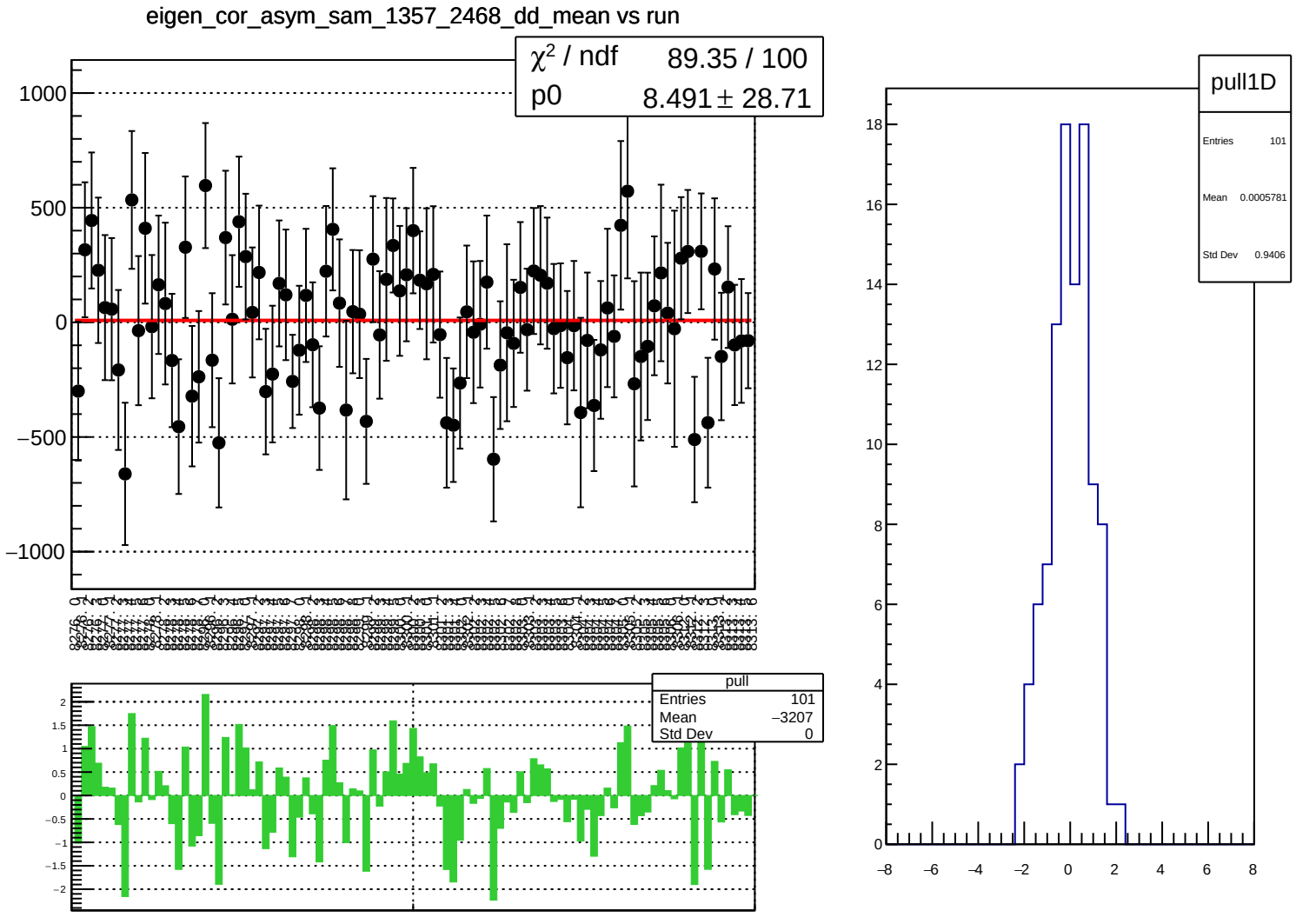

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ^2 / ndf 9260 / 100
p0 477 ± 0.3444
650
600
550
500
450
400

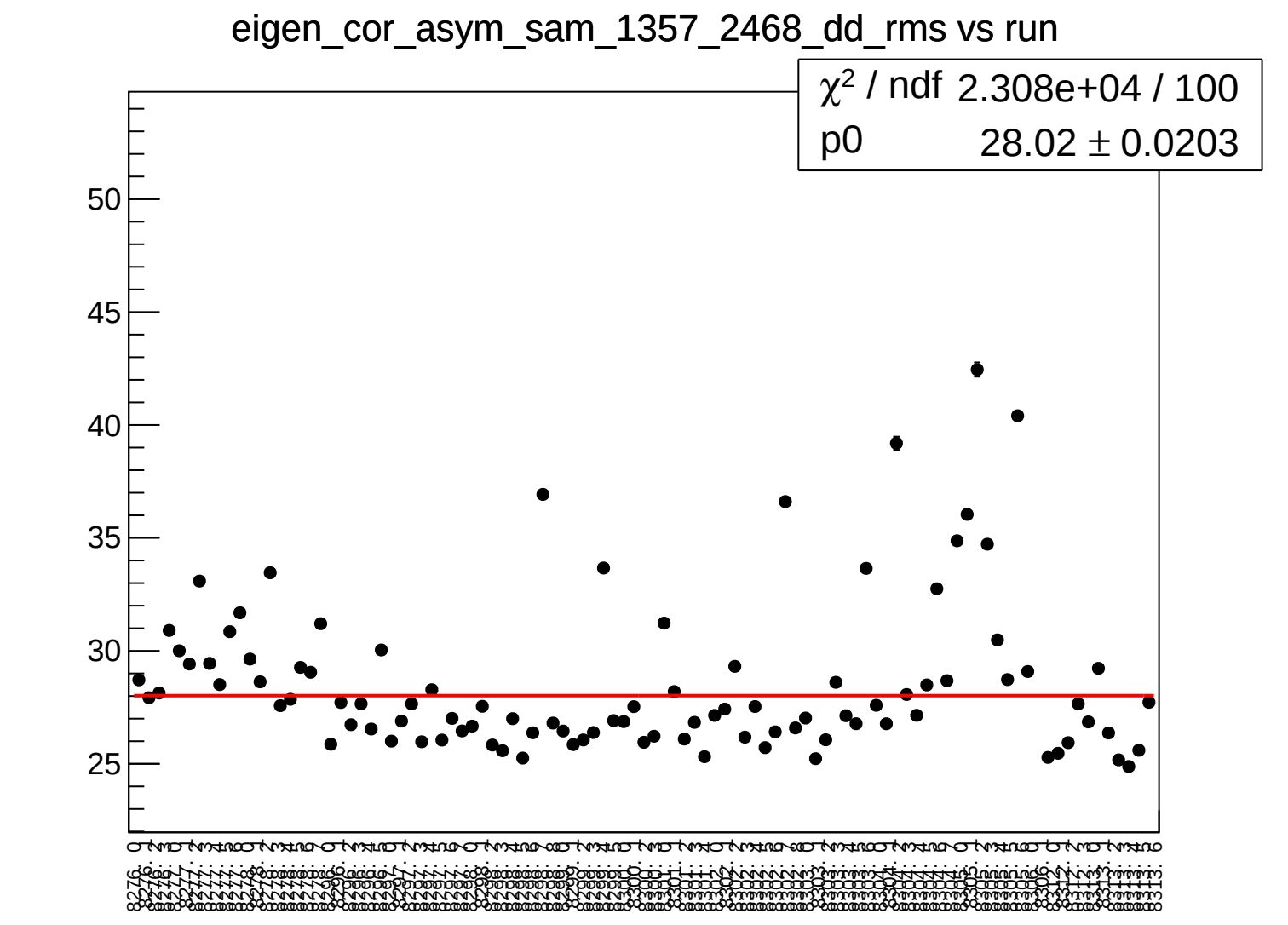

cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 89.35 / 100
p0 8.491 ± 28.71
1000
500
0
−500
−1000
pull
Entries 101
Mean −3207
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 101
Mean 0.0005781
Std Dev 0.9406
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

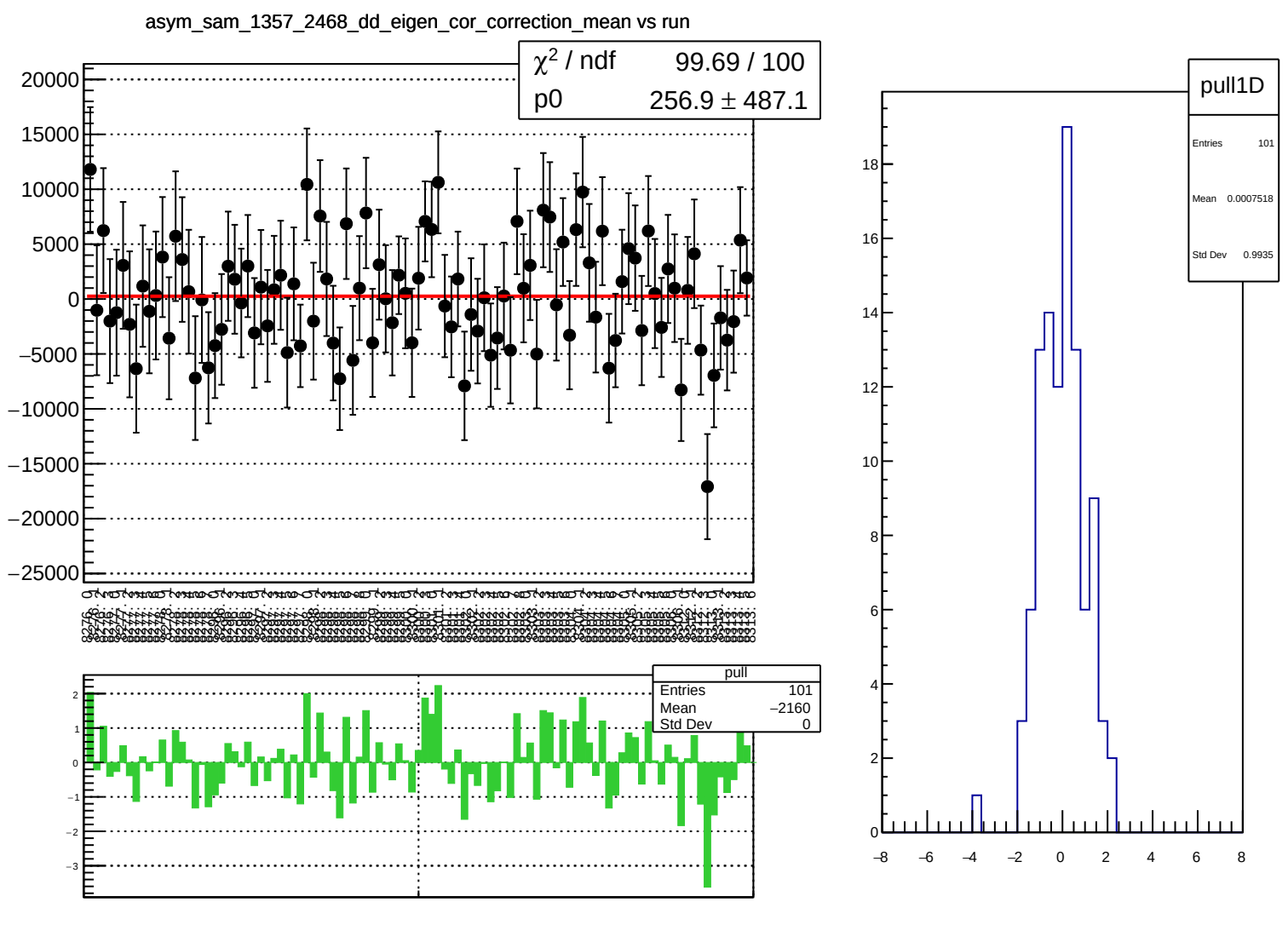

cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.308e+04 / 100
p0 28.02 ± 0.0203
50
45
40
35
30
25

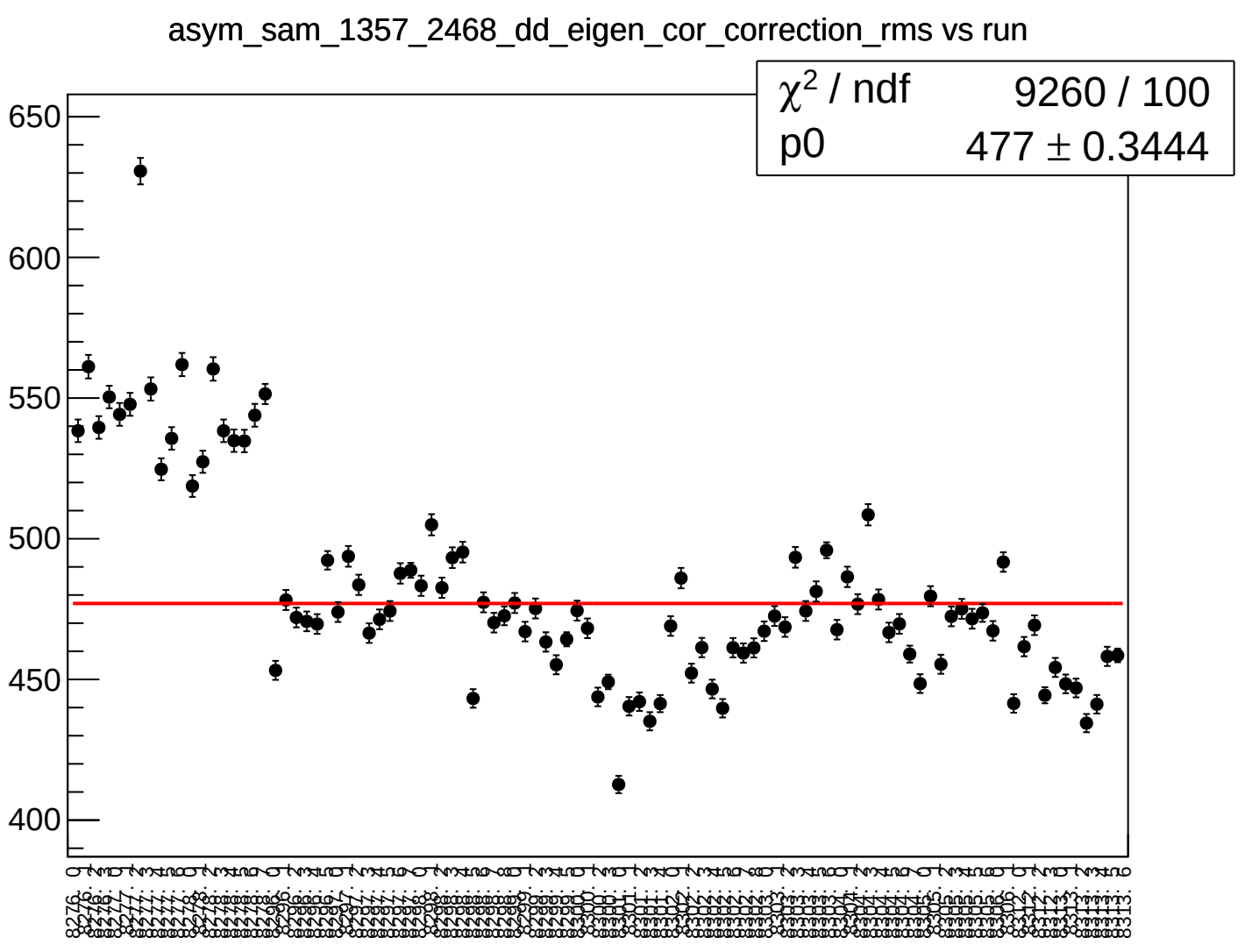

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 99.69 / 100
p0 256.9 ± 487.1
pull
Entries 101
Mean −2160
Std Dev 0
pull1D
Entries 101
Mean 0.0007518
Std Dev 0.9935

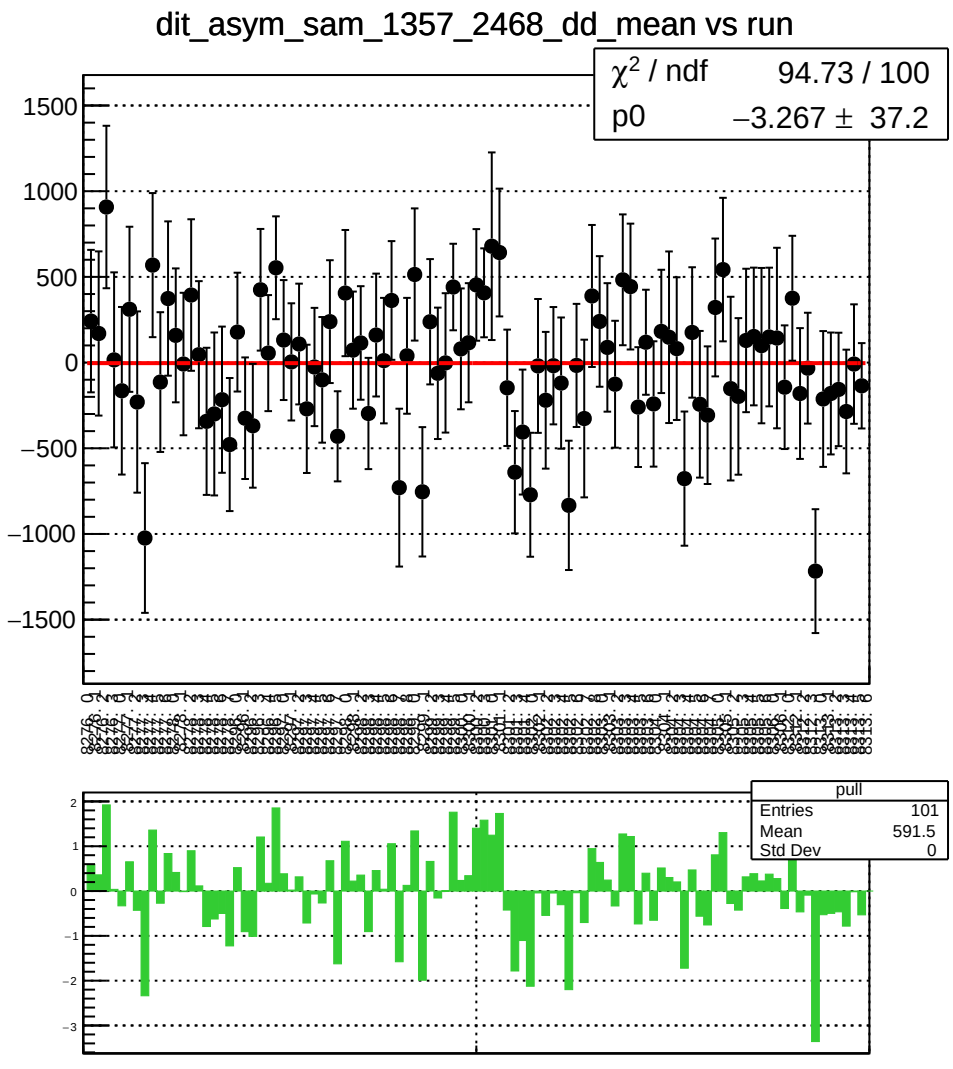

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ^2 / ndf 9260 / 100
p0 477 ± 0.3444
650
600
550
500
450
400

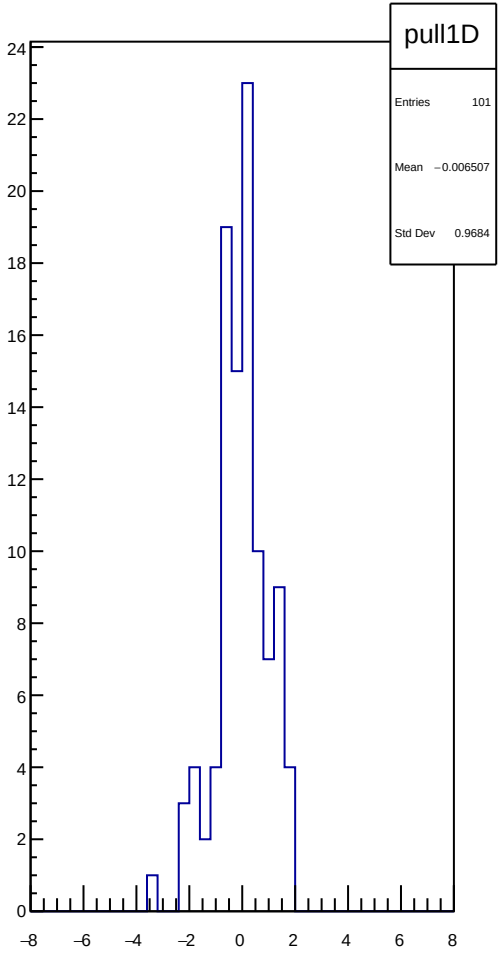

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 89.35 / 100
p0 8.491 ± 28.71
1000
500
0
−500
−1000
pull
Entries 101
Mean −3207
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 101
Mean 0.0005781
Std Dev 0.9406
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

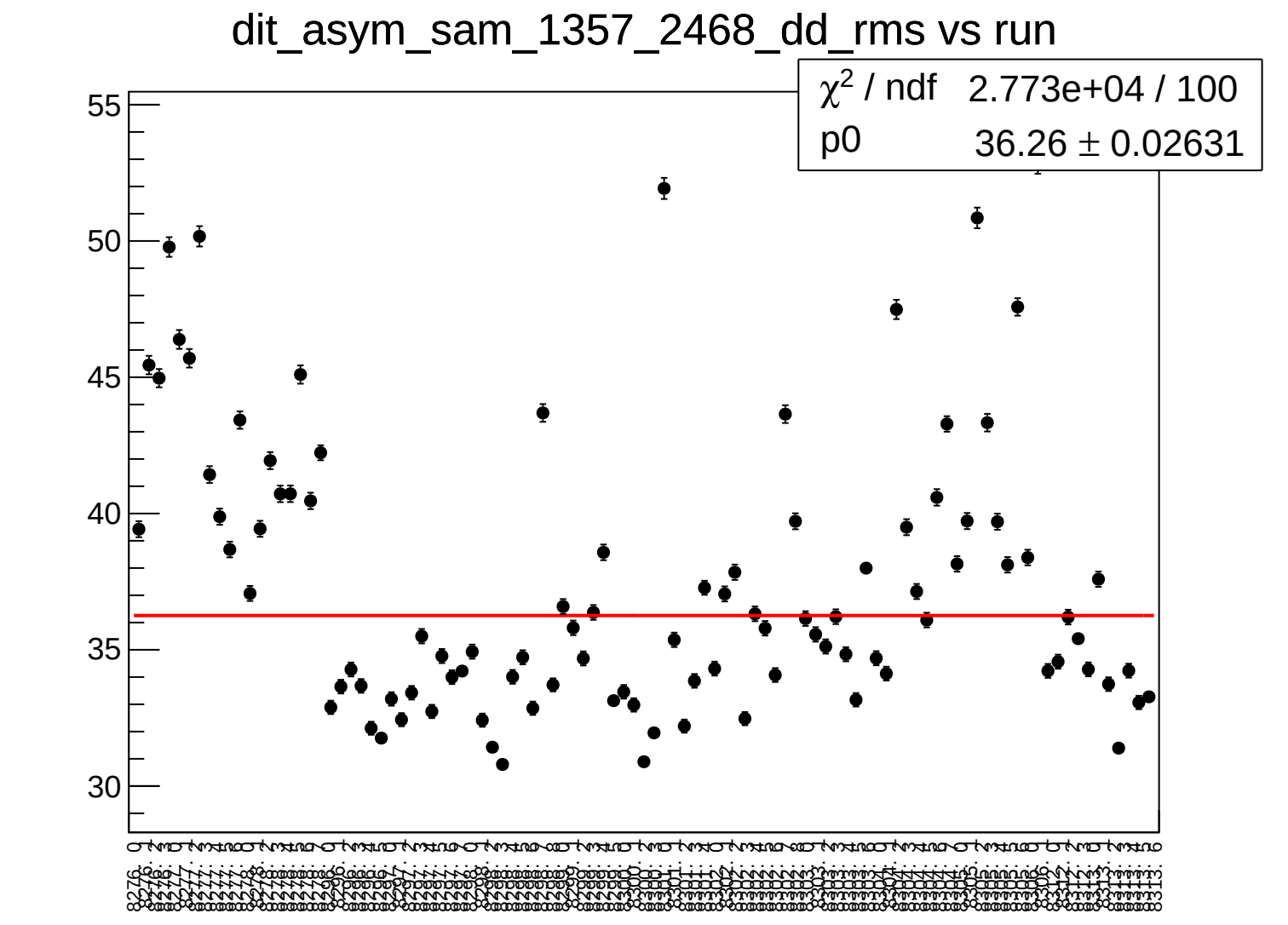

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.308e+04 / 100
p0 28.02 ± 0.0203
50
45
40
35
30
25

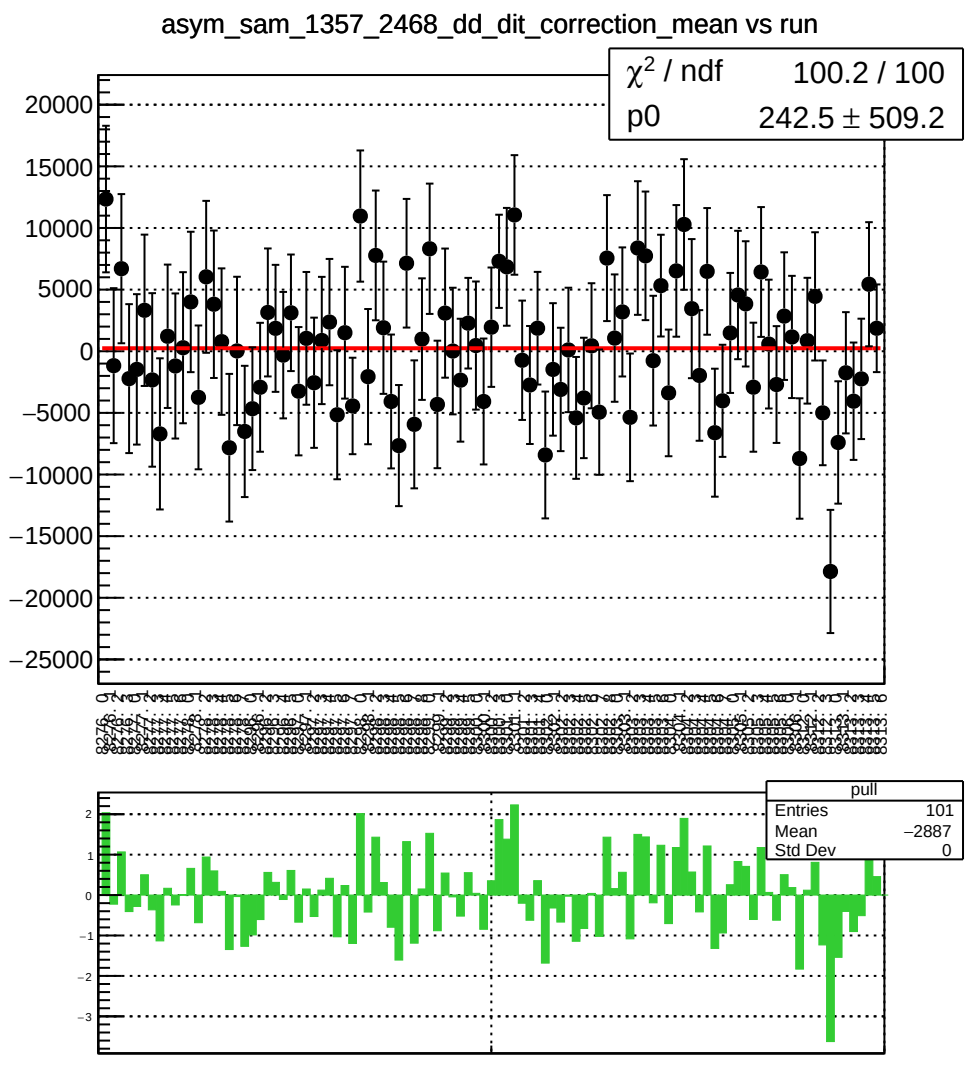

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 99.69 / 100
p0 256.9 ± 487.1
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 101
Mean −2160
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean 0.0007518
Std Dev 0.9935
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

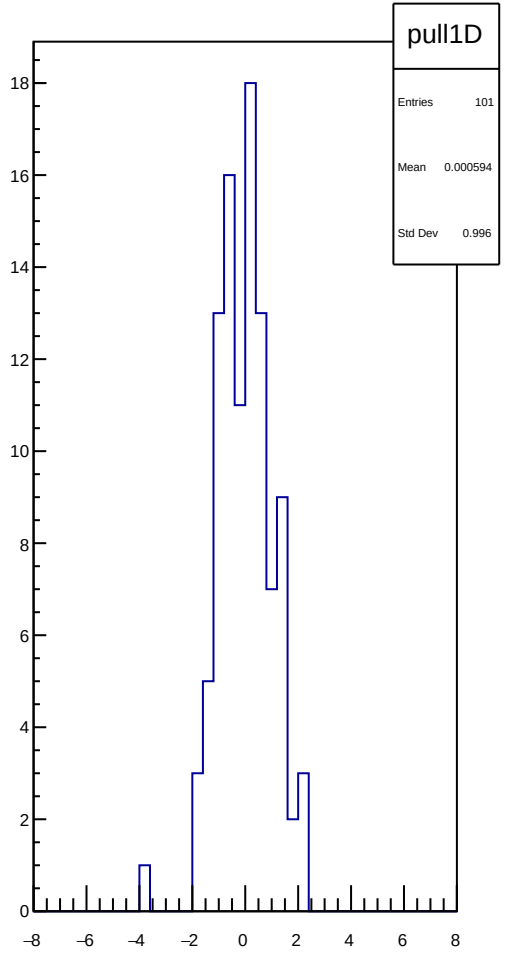

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 9260 / 100
p0 477 ± 0.3444
650
600
550
500
450
400

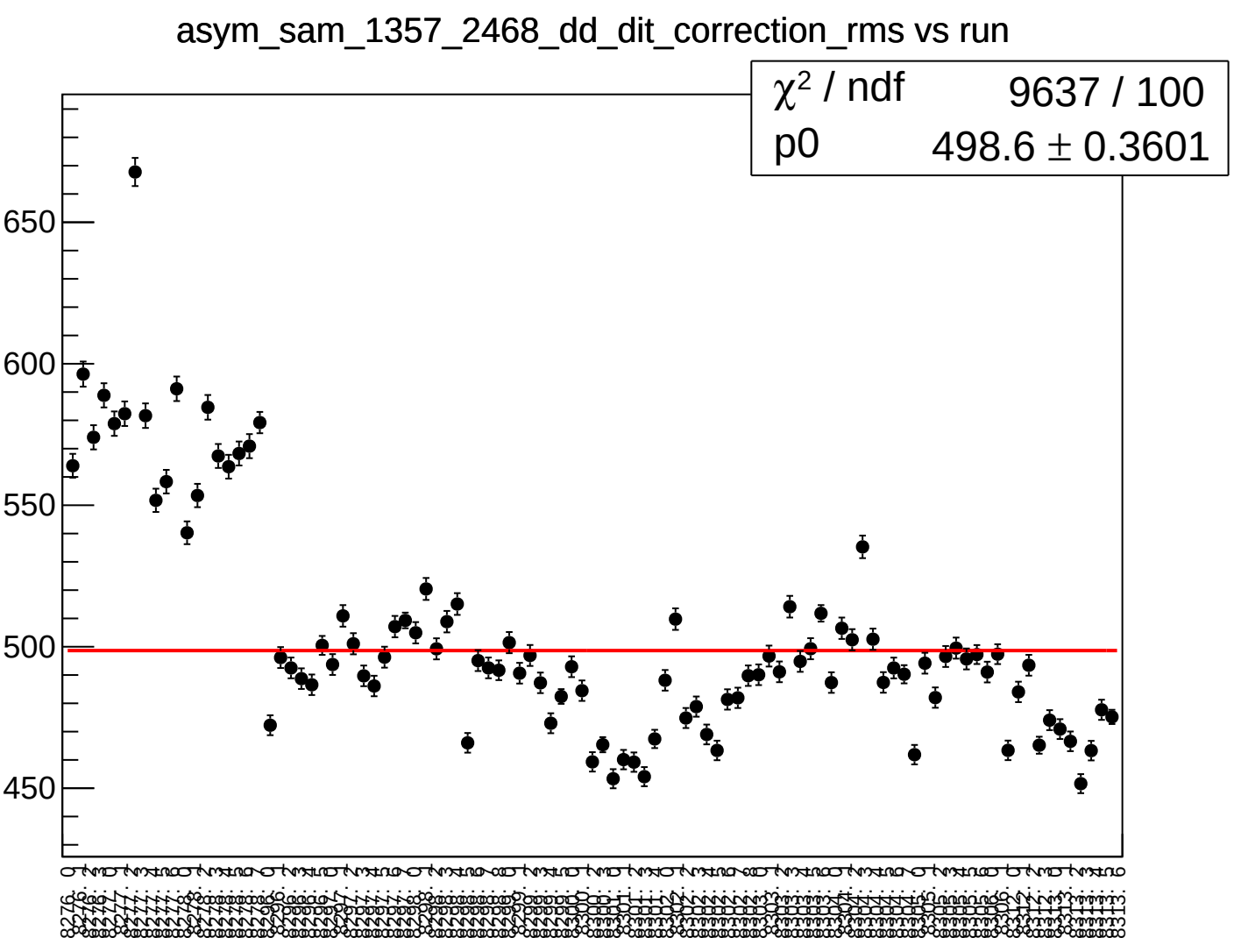

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 94.73 / 100
p0 −3.267 ± 37.2
1500
1000
500
0
−500
−1000
−1500
pull
Entries 101
Mean 591.5
Std Dev 0
2
1
0
−1
−2
−3

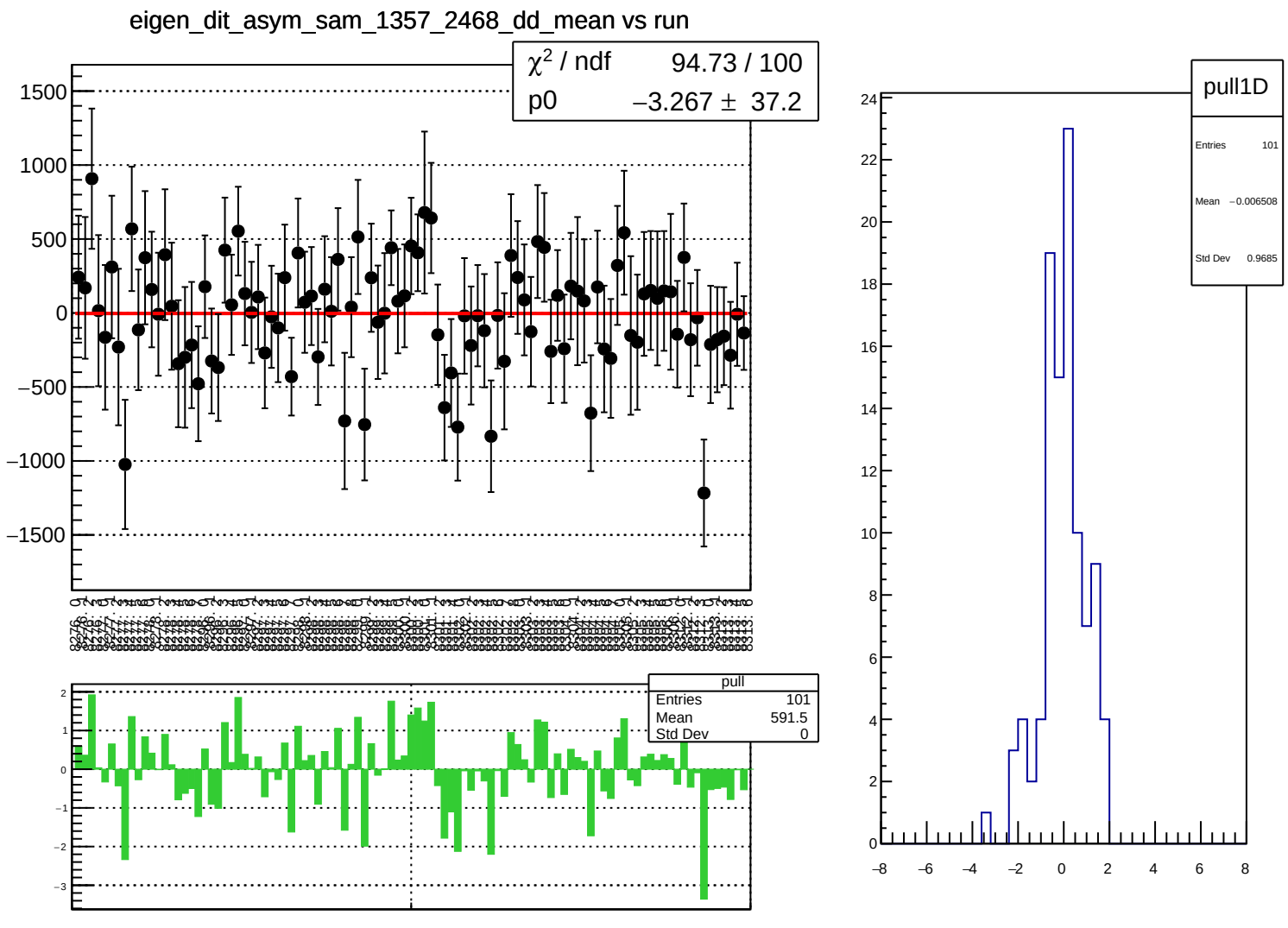

pull1D
Entries 101
Mean −0.006507
Std Dev 0.9684
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

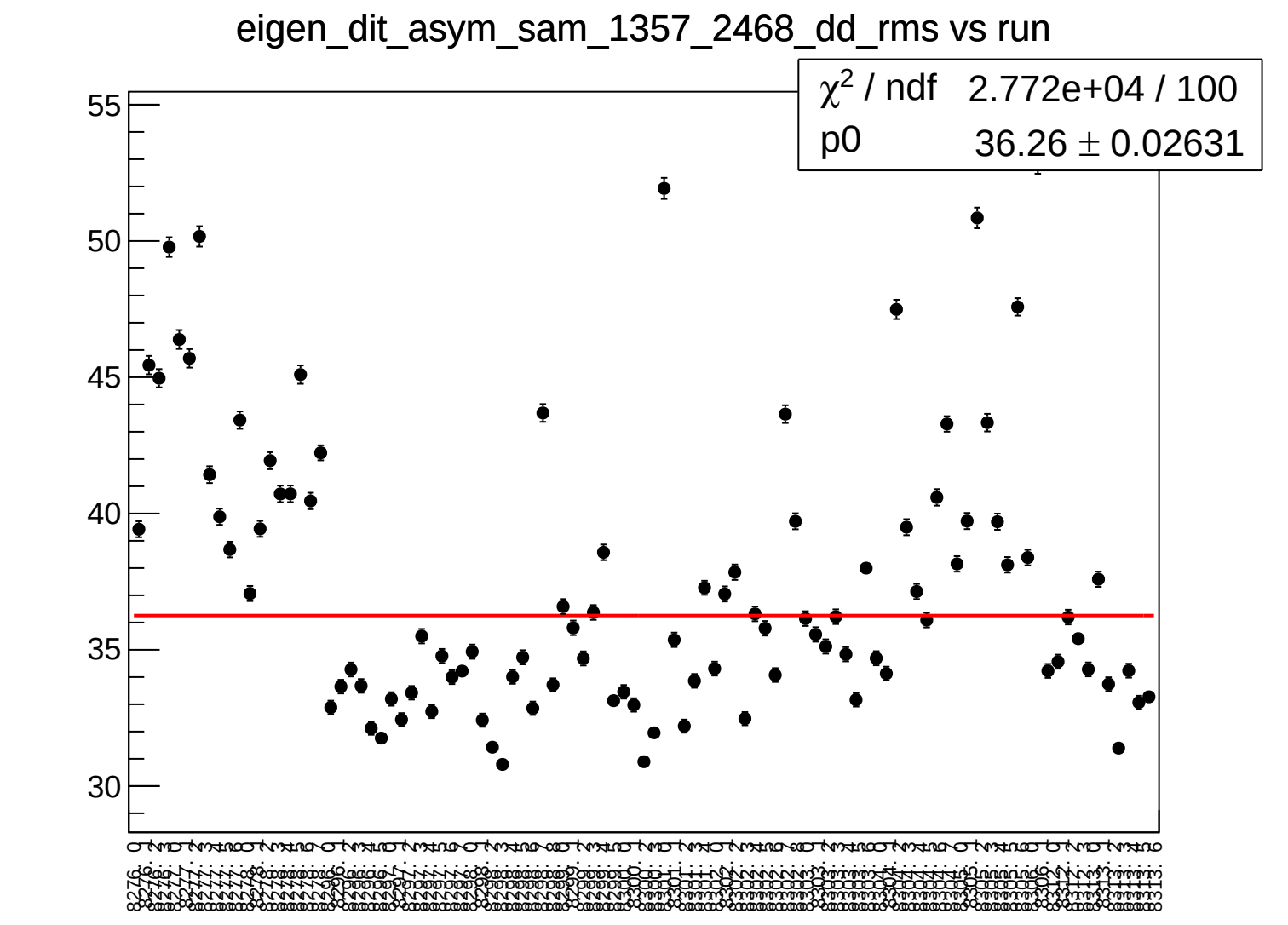

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.773e+04 / 100
p0 36.26 ± 0.02631
55
50
45
40
35
30

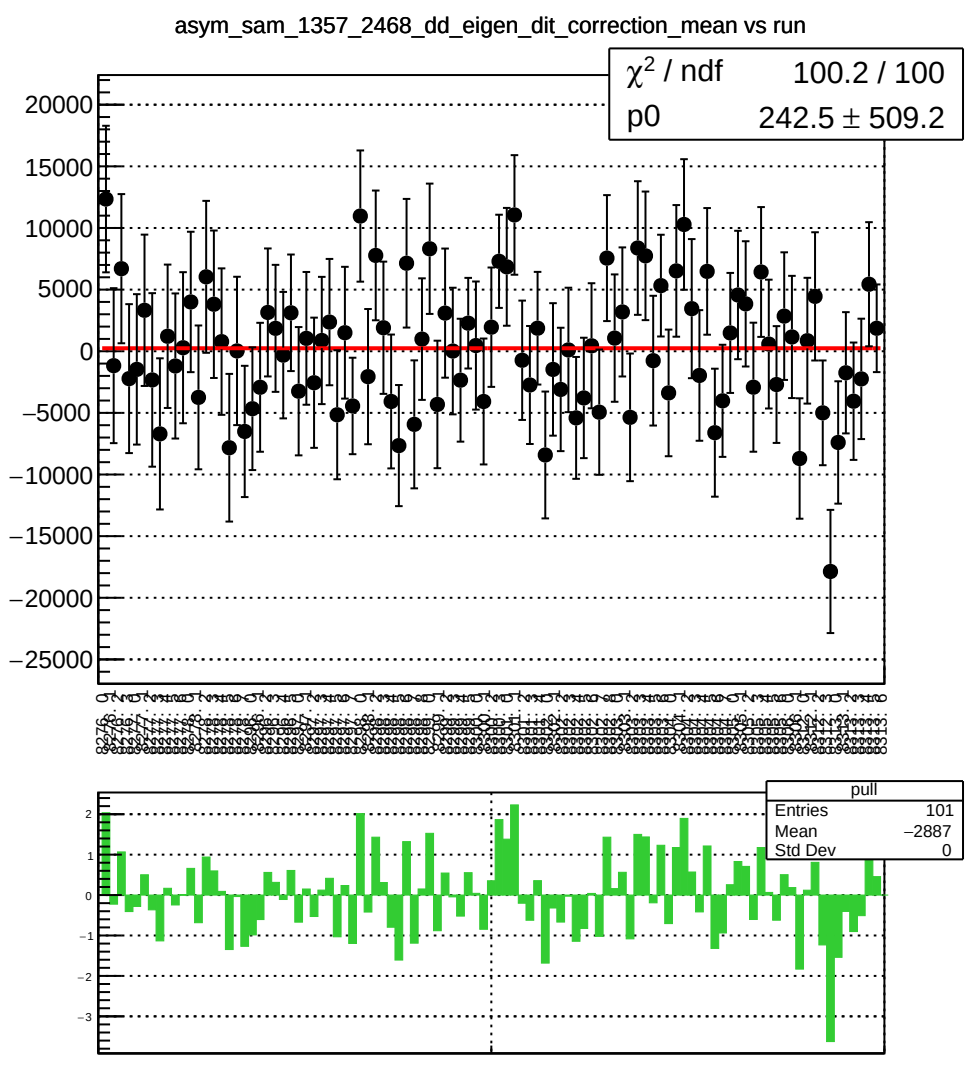

asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 100.2 / 100
p0 242.5 ± 509.2
pull
Entries 101
Mean −2887
Std Dev 0

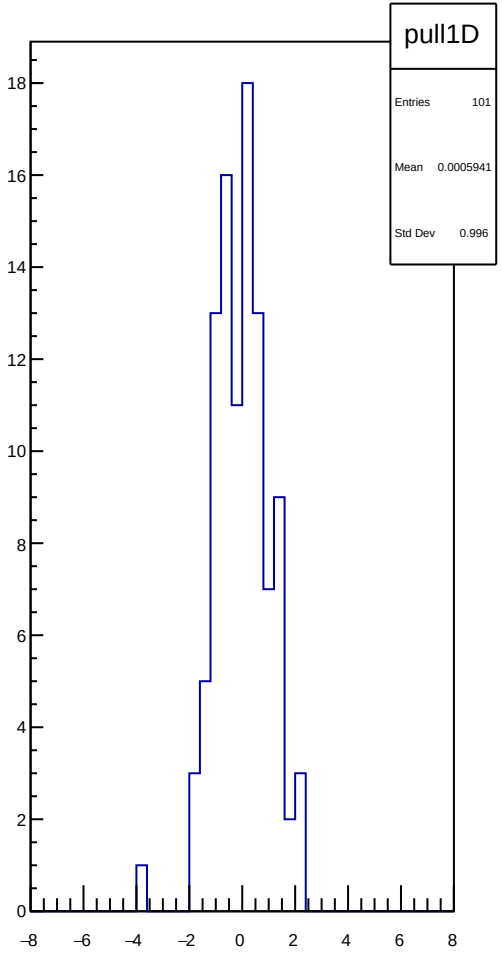

pull1D
Entries 101
Mean 0.000594
Std Dev 0.996

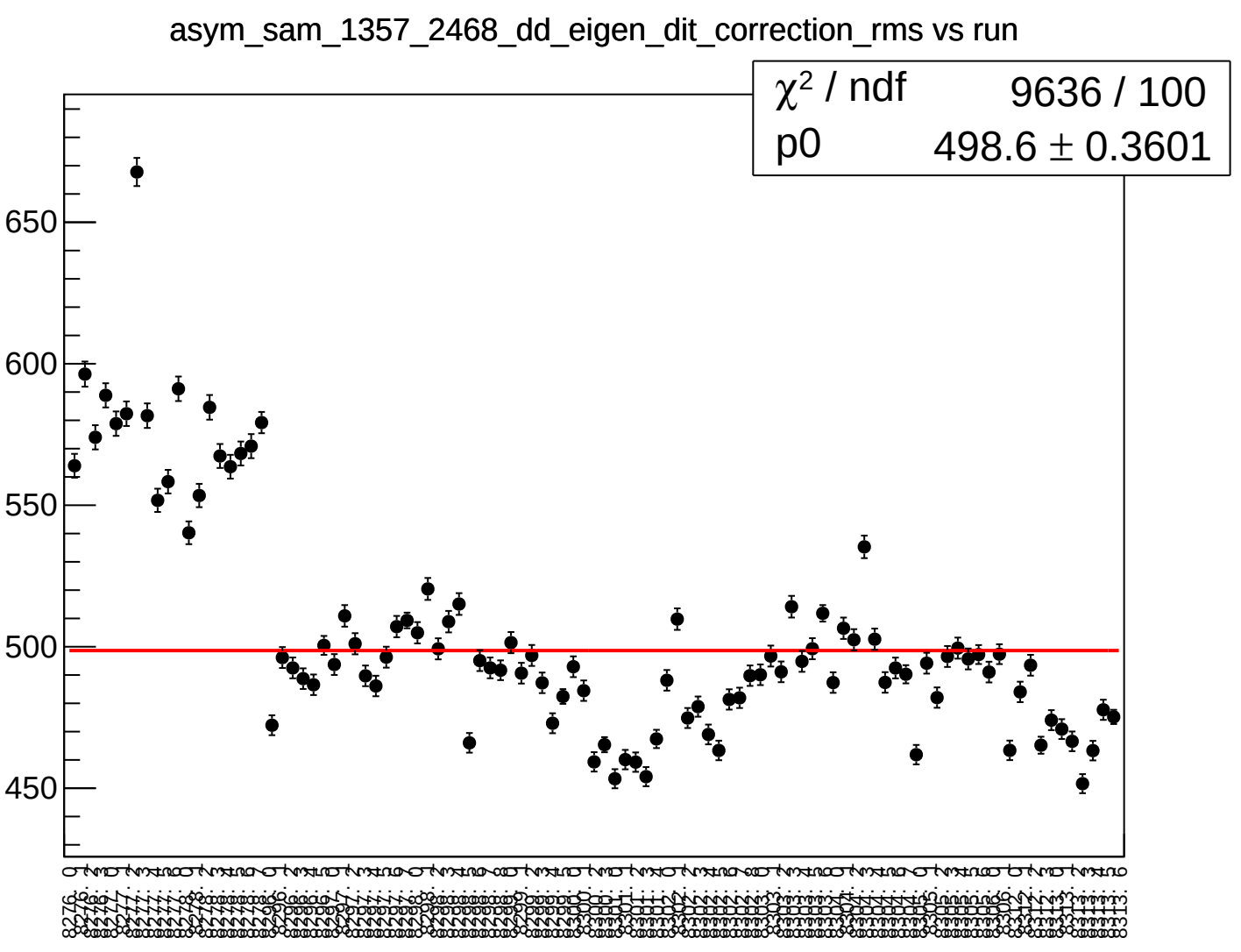

asym_sam_1357_2468_dd_dit_correction_rms vs run
χ² / ndf 9637 / 100
p0 498.6 ± 0.3601
650
600
550
500
450

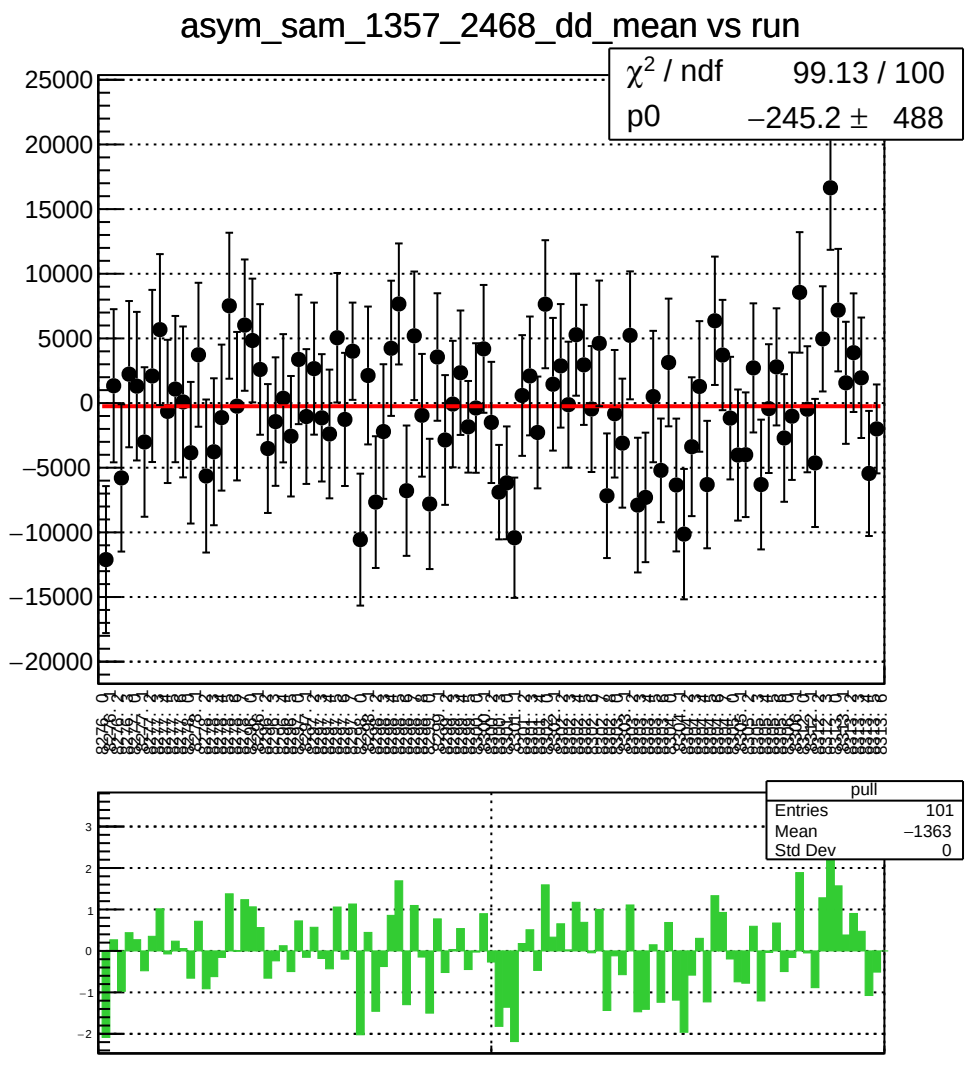

eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 94.73 / 100
p0 −3.267 ± 37.2
1500
1000
500
0
−500
−1000
−1500
pull
Entries 101
Mean 591.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean −0.006508
Std Dev 0.9685
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

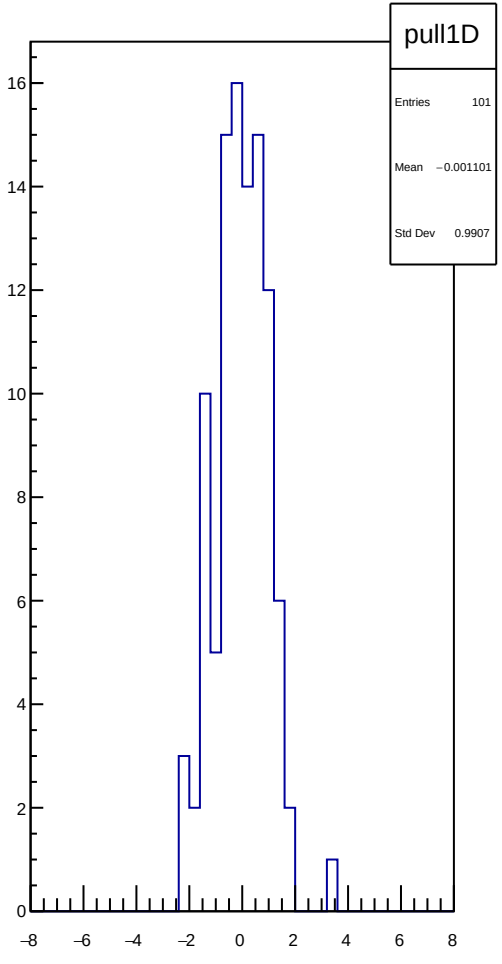

eigen_dit_asym_sam_1357_2468_dd_rms vs run
χ^2 / ndf 2.772e+04 / 100
p0 36.26 ± 0.02631
55
50
45
40
35
30

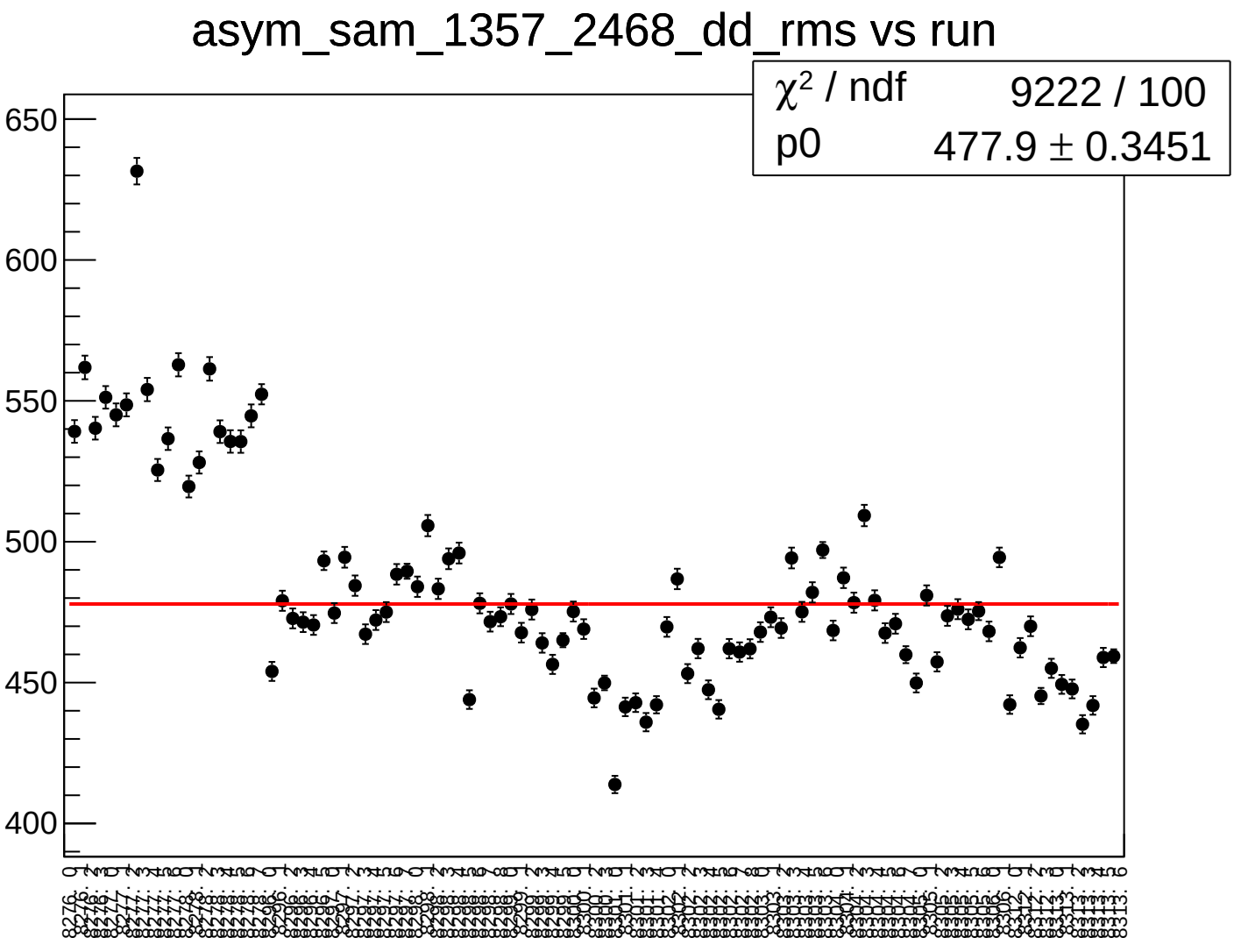

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 100.2 / 100
p0 242.5 ± 509.2
pull
Entries 101
Mean −2887
Std Dev 0

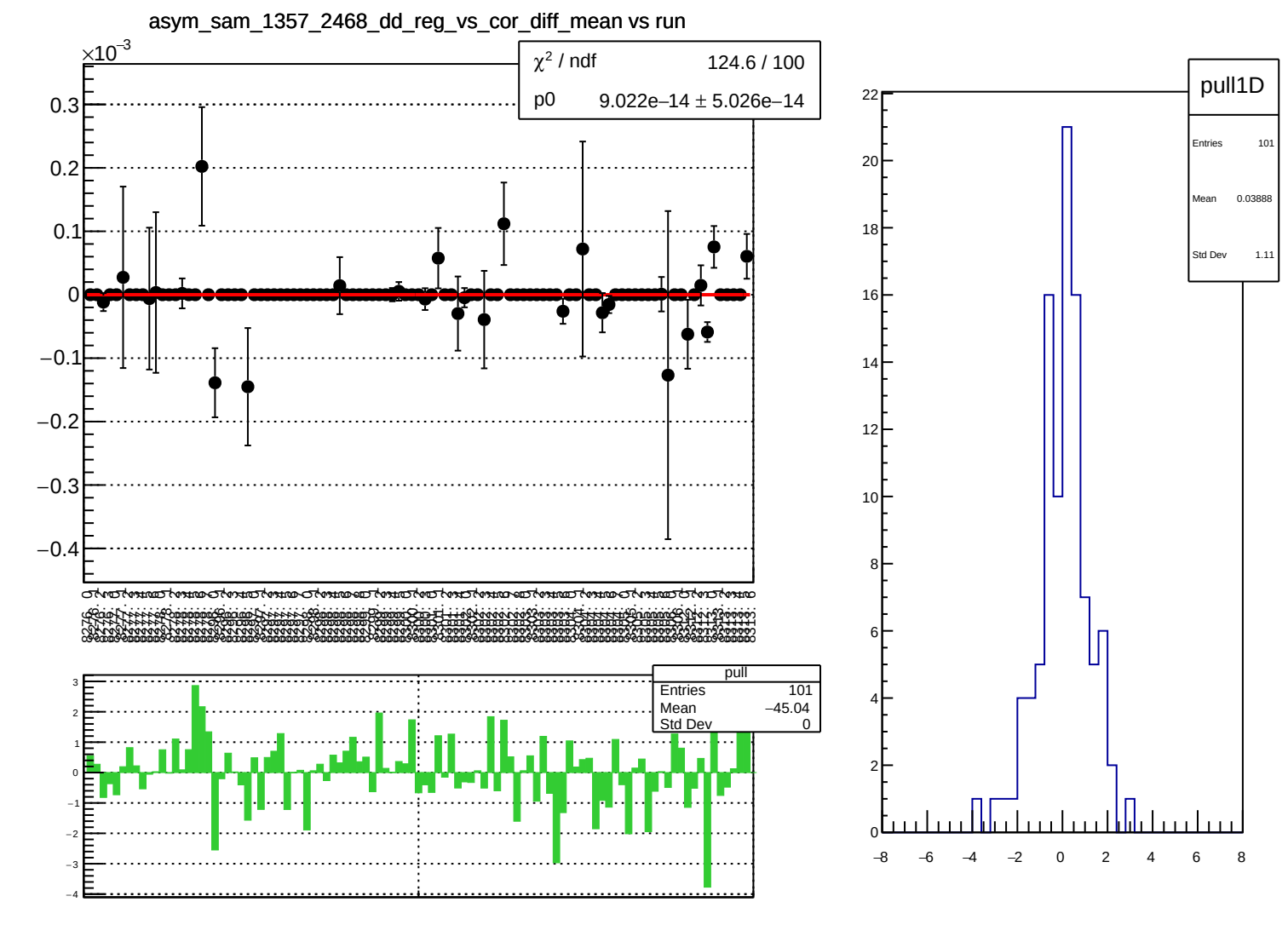

pull1D
Entries 101
Mean 0.0005941
Std Dev 0.996

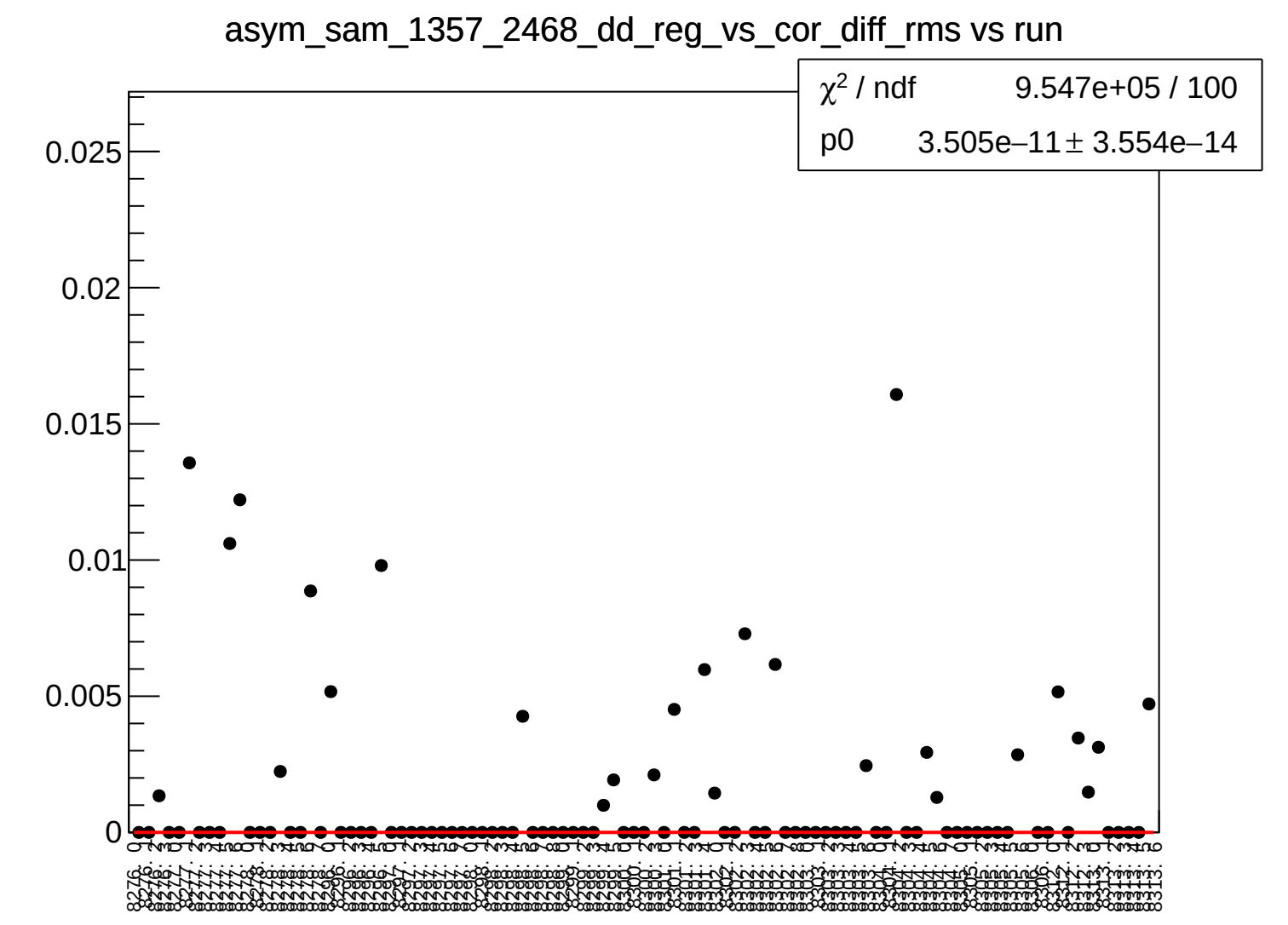

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 9636 / 100
p0 498.6 ± 0.3601
650
600
550
500
450

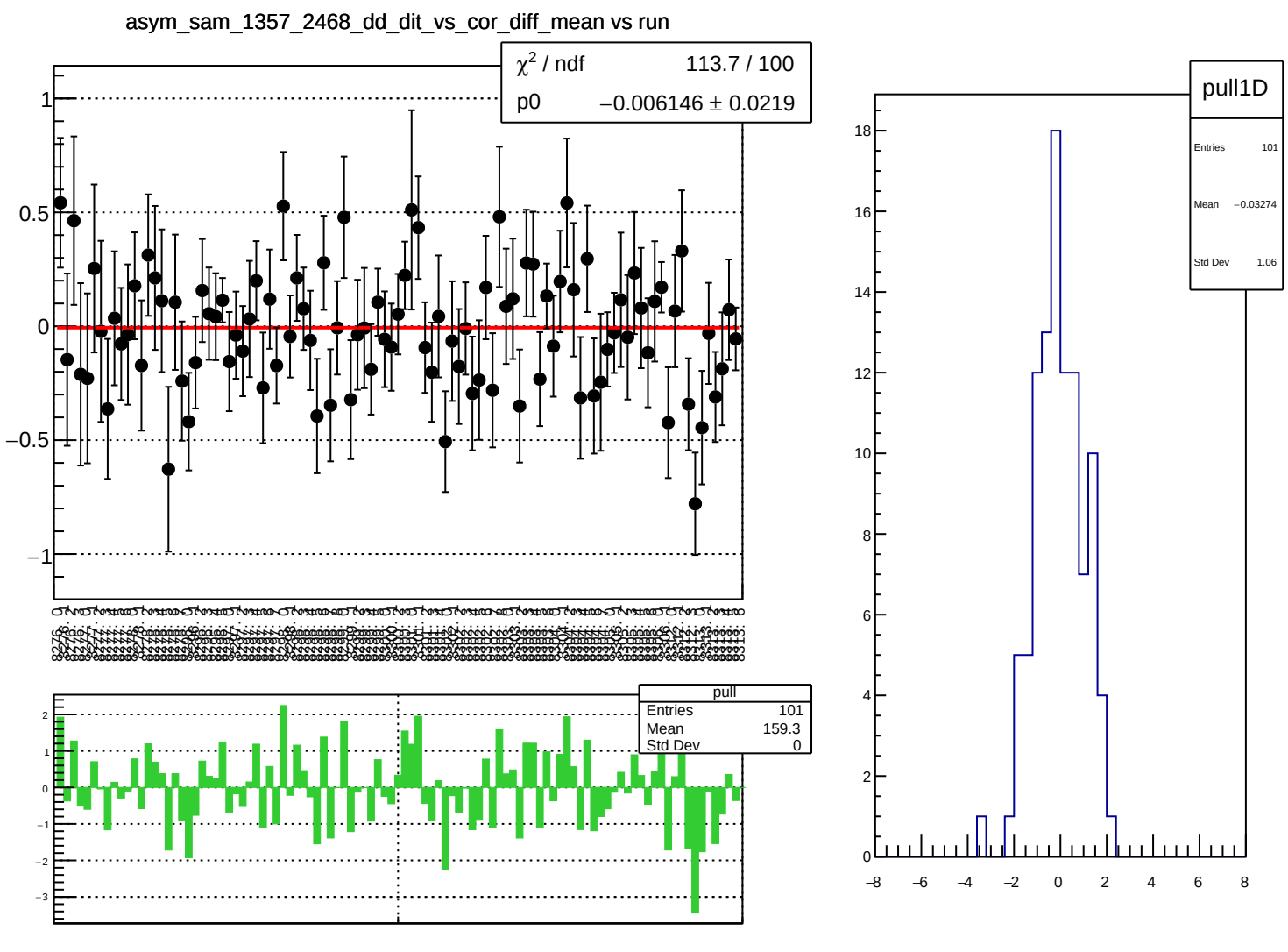

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 99.13 / 100
p0 −245.2 ± 488
pull
Entries 101
Mean −1363
Std Dev 0

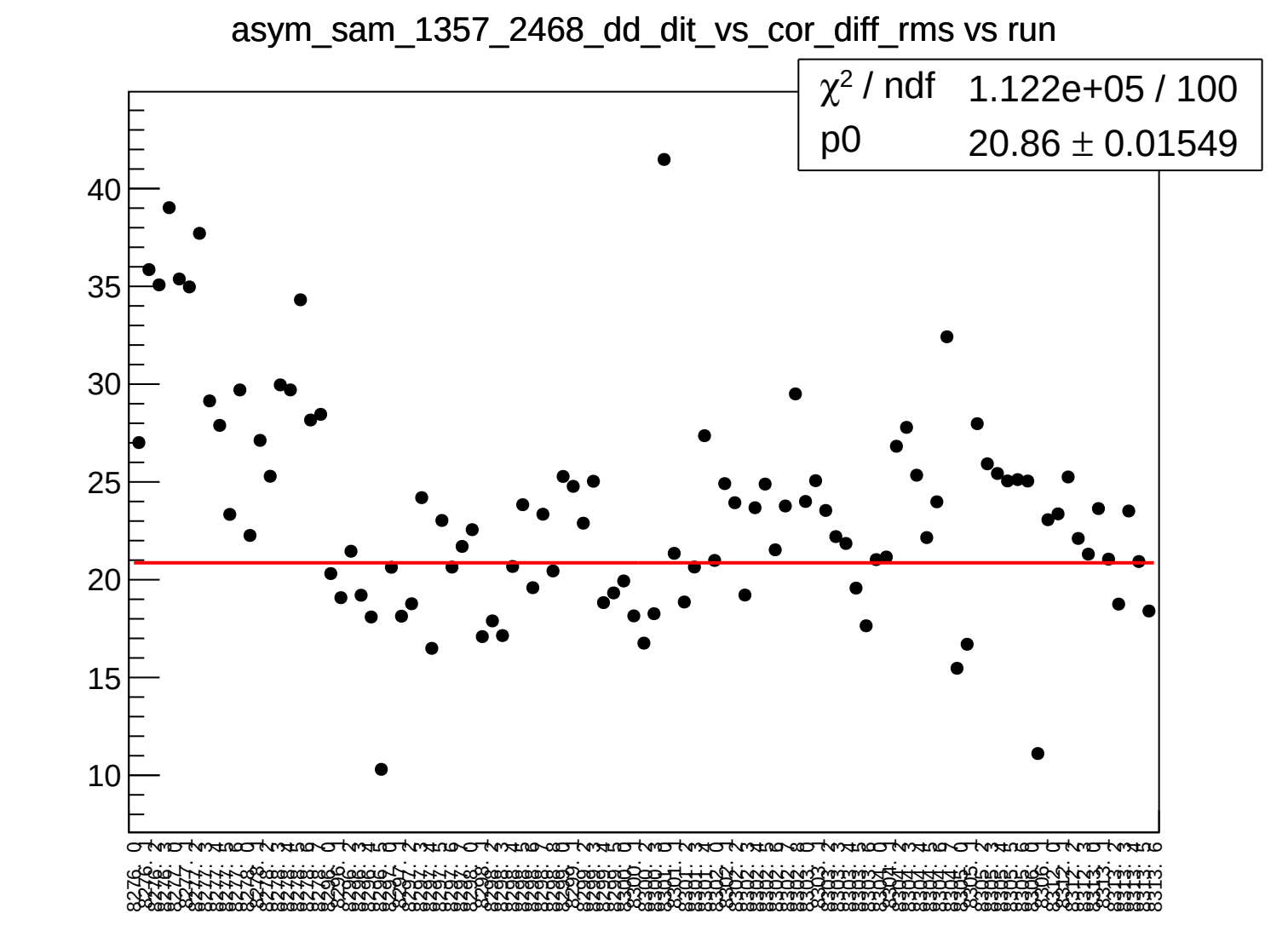

pull1D
Entries 101
Mean −0.001101
Std Dev 0.9907

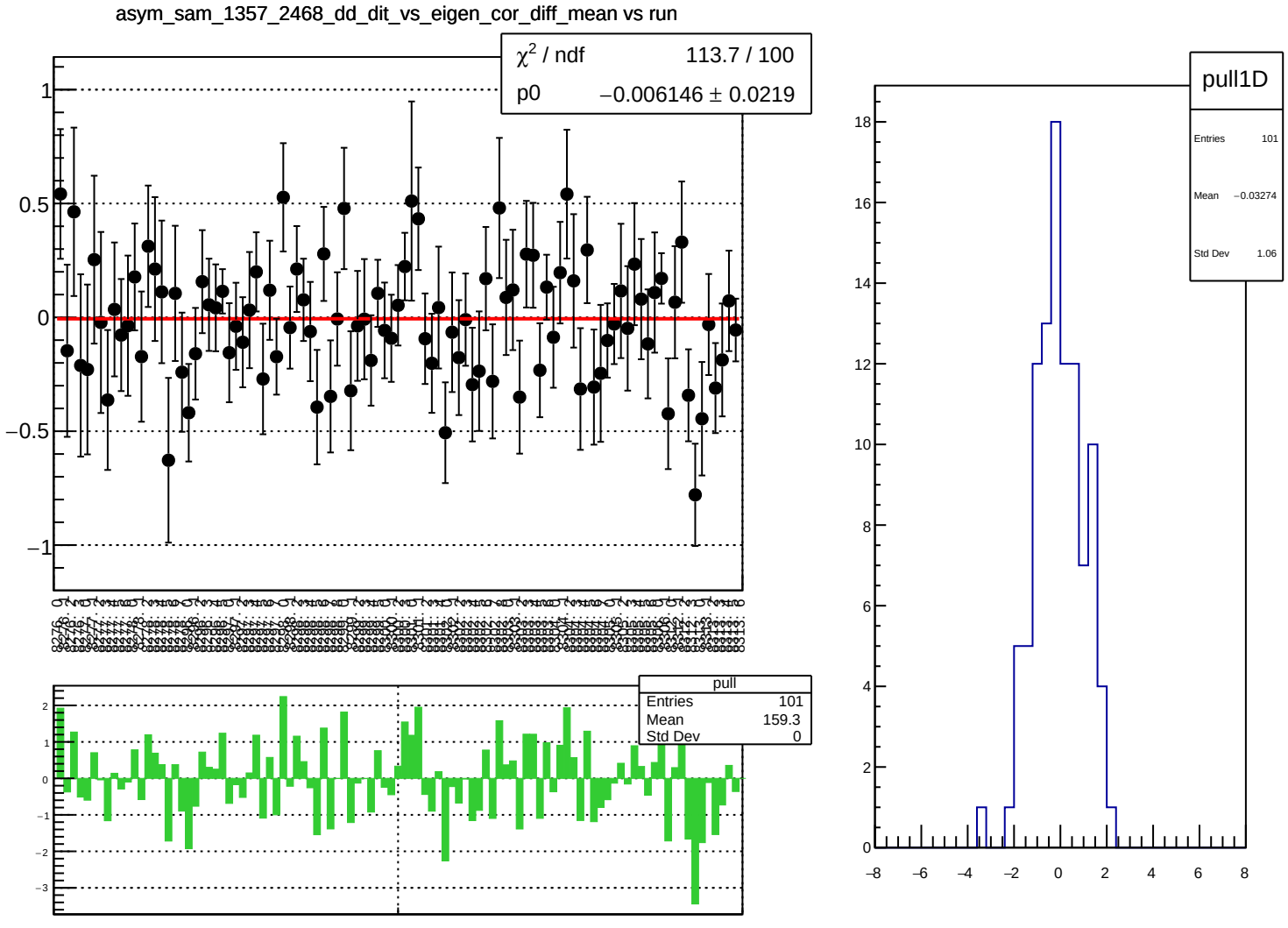

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 9222 / 100
p0 477.9 ± 0.3451
650
600
550
500
450
400

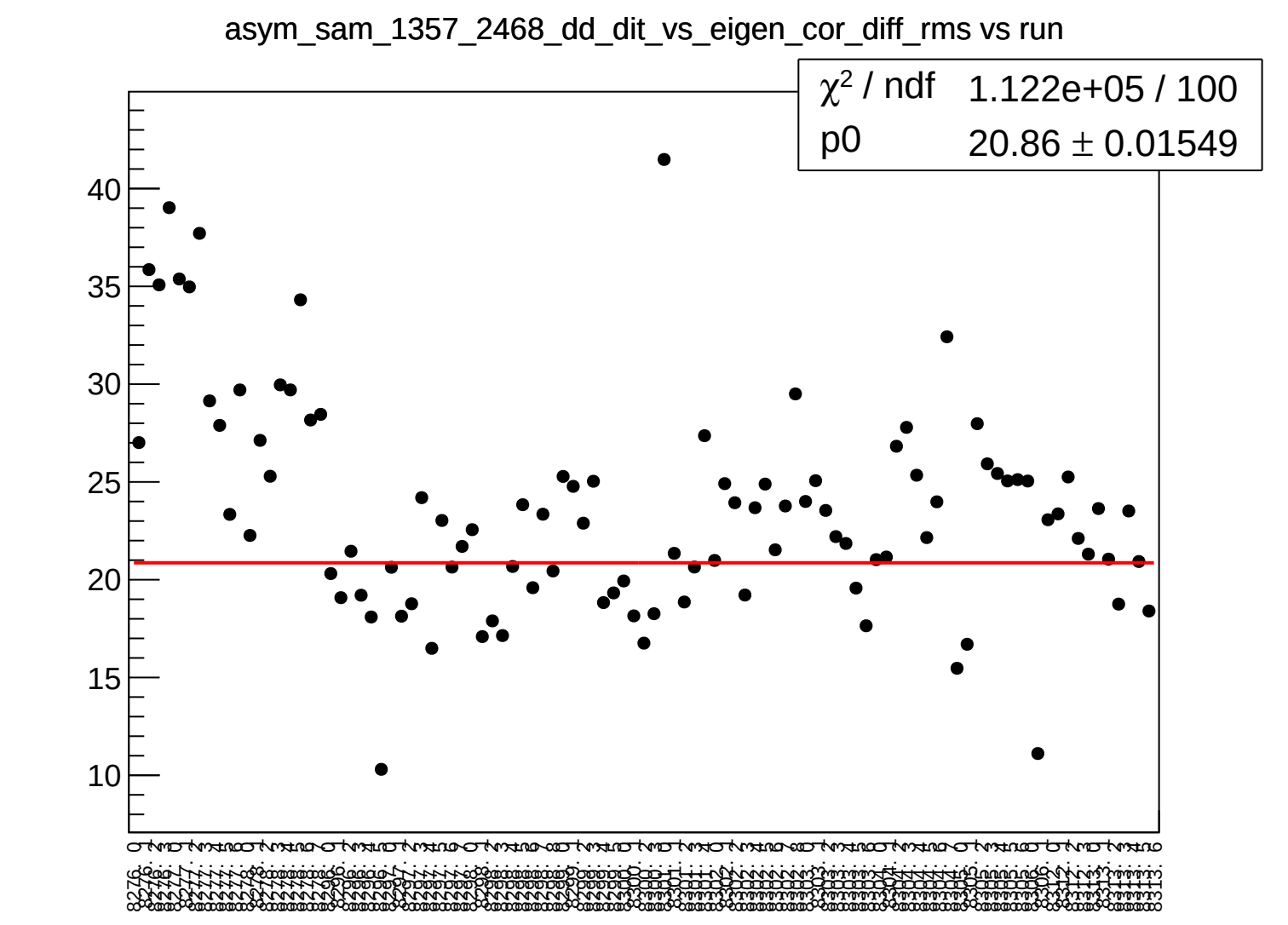

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 124.6 / 100
p0 9.022e−14 ± 5.026e−14
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull
Entries 101
Mean −45.04
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 101
Mean 0.03888
Std Dev 1.11
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

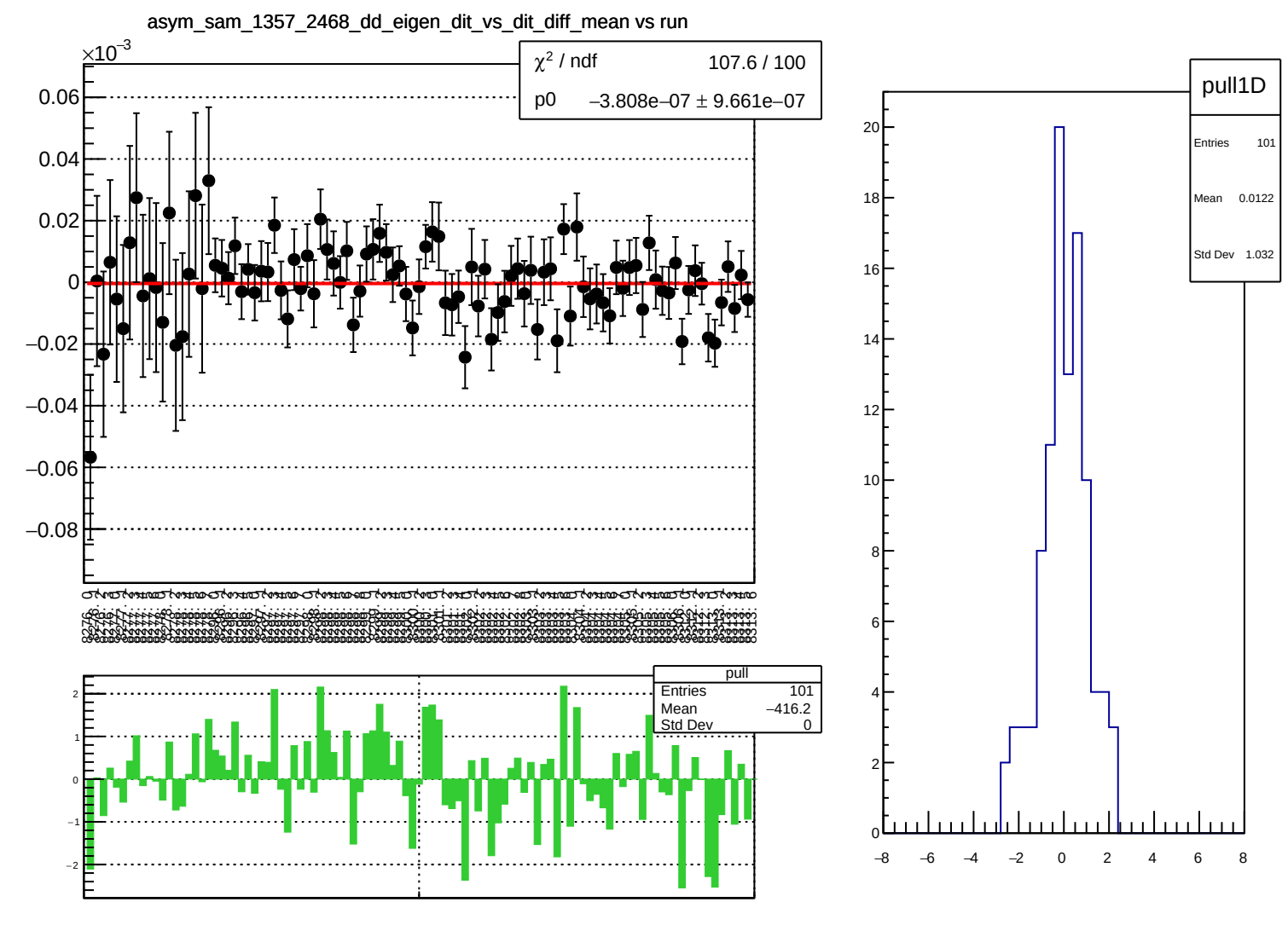

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.547e+05 / 100
p0 3.505e−11 ± 3.554e−14
0.025
0.02
0.015
0.01
0.005
0

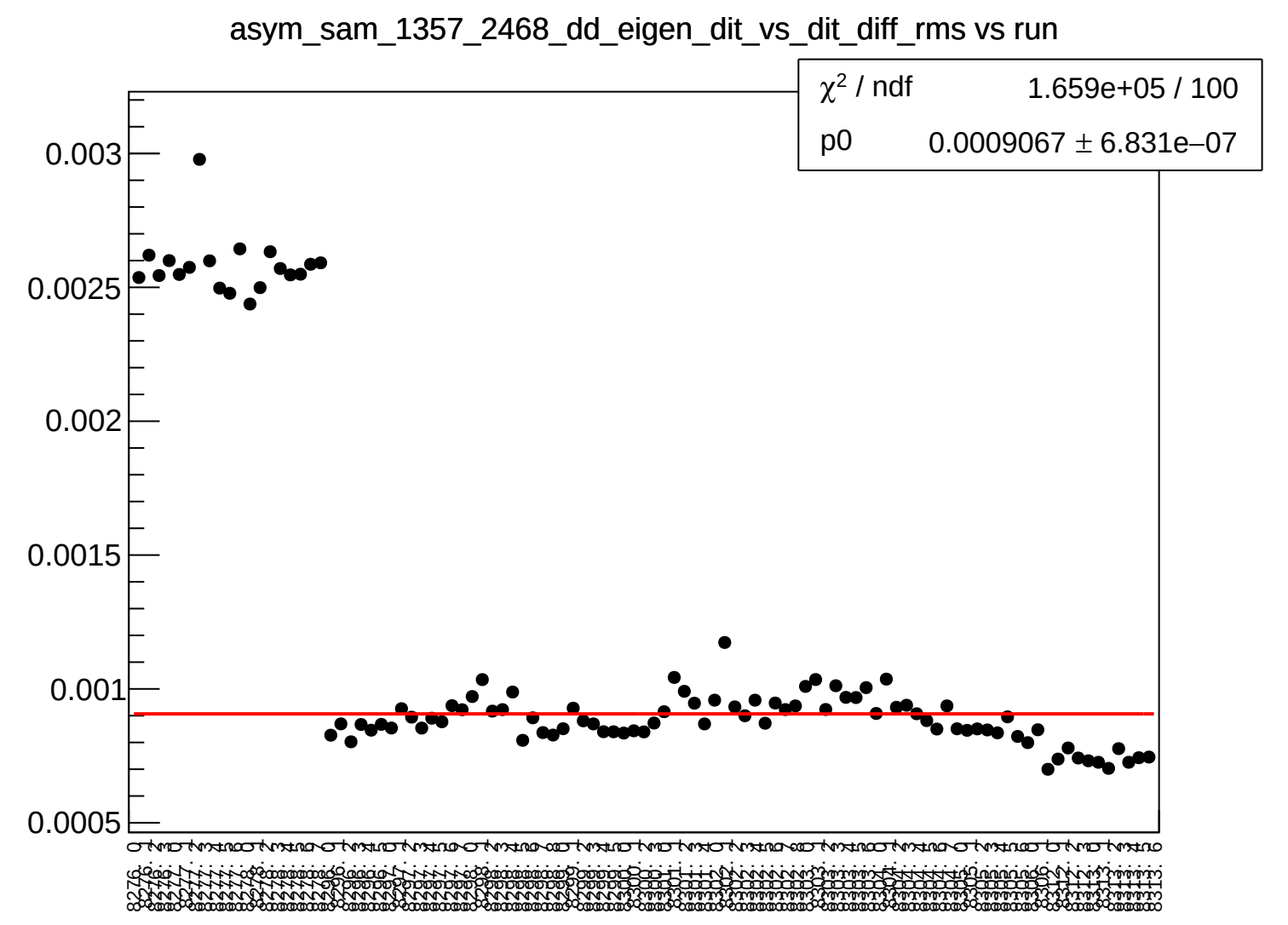

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 113.7 / 100
p0 −0.006146 ± 0.0219
pull
Entries 101
Mean 159.3
Std Dev 0
pull1D
Entries 101
Mean −0.03274
Std Dev 1.06

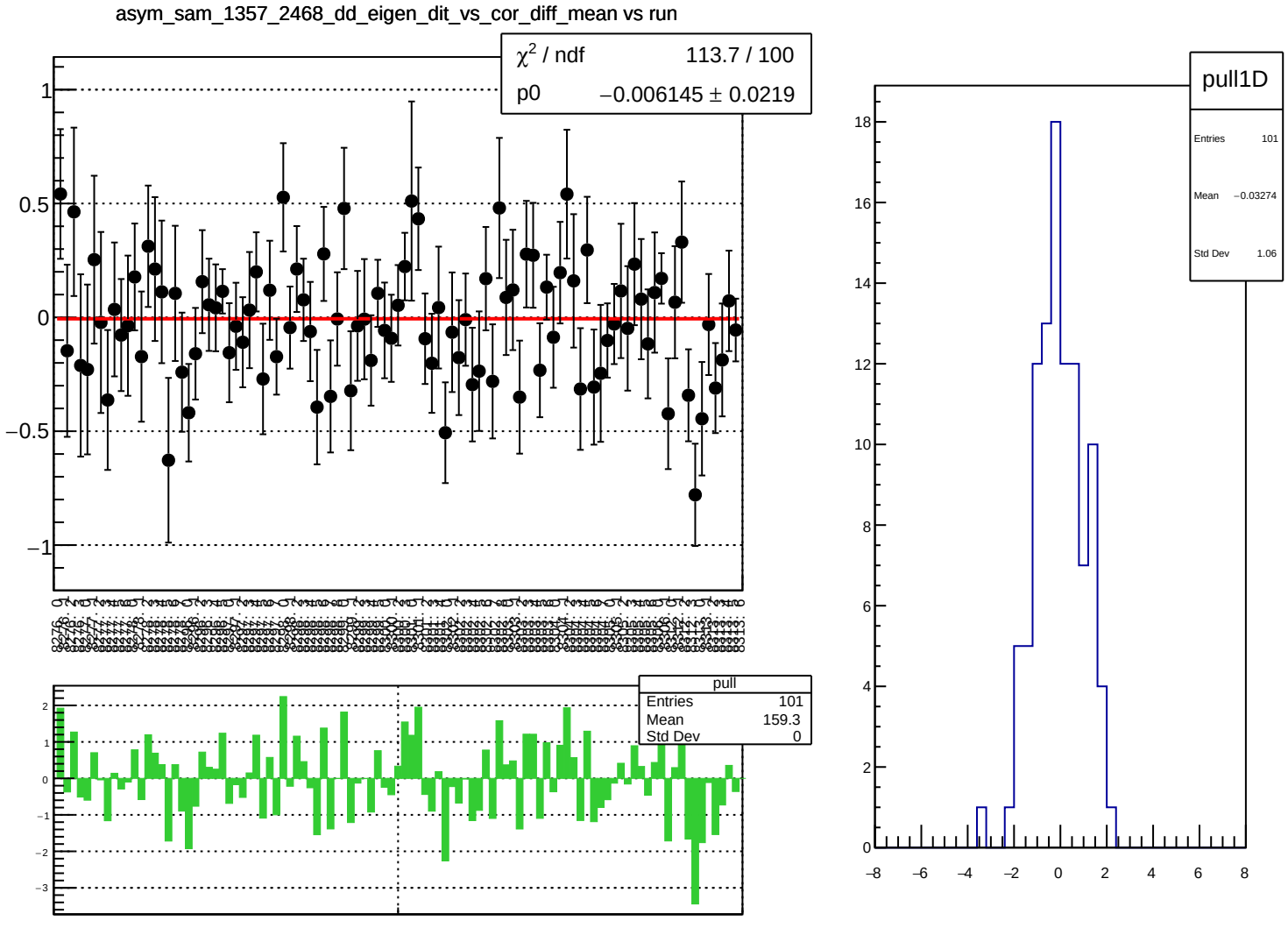

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.122e+05 / 100
p0 20.86 ± 0.01549
40
35
30
25
20
15
10

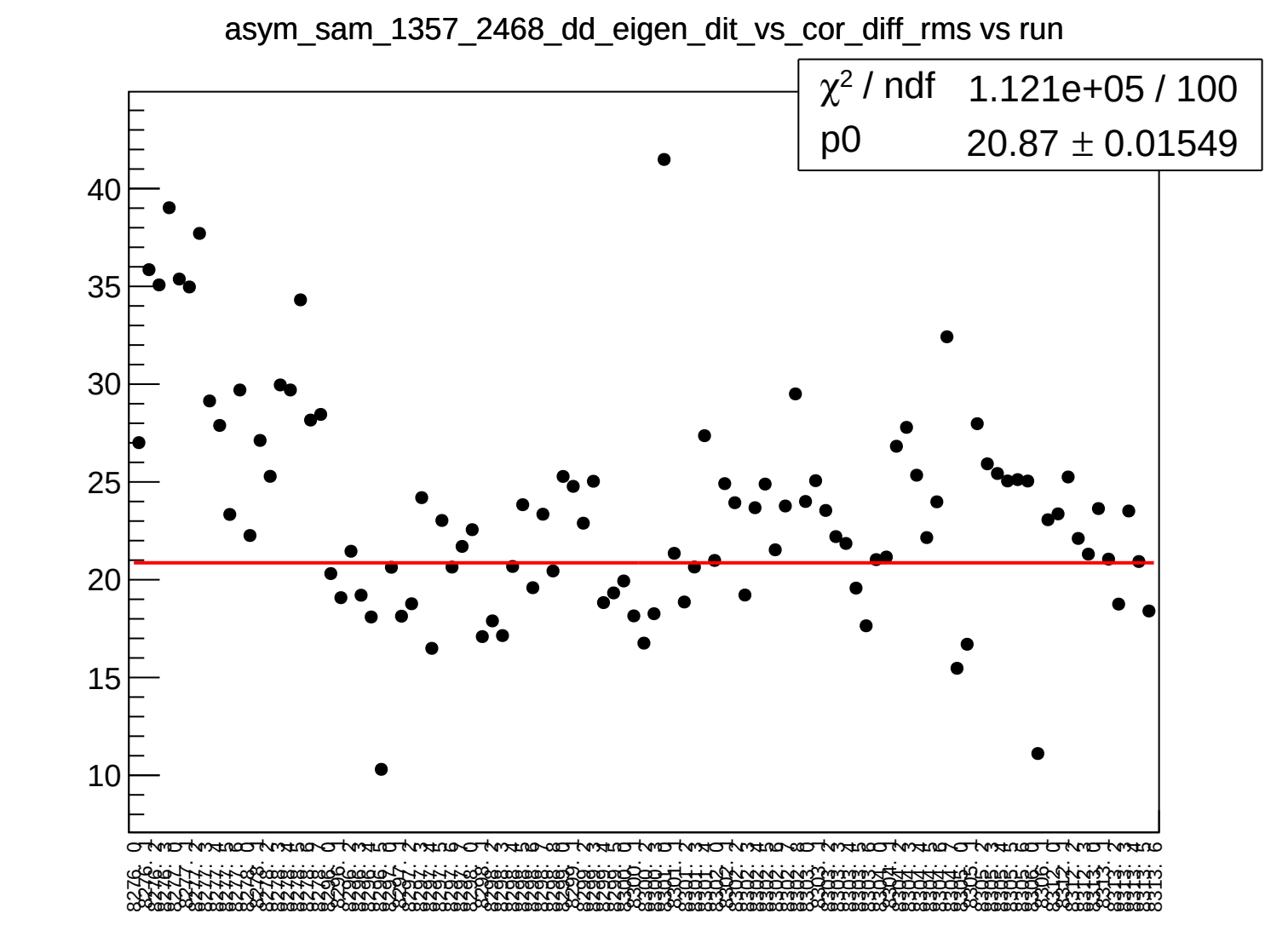

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113.7 / 100
p0 −0.006146 ± 0.0219
pull
Entries 101
Mean 159.3
Std Dev 0
pull1D
Entries 101
Mean −0.03274
Std Dev 1.06

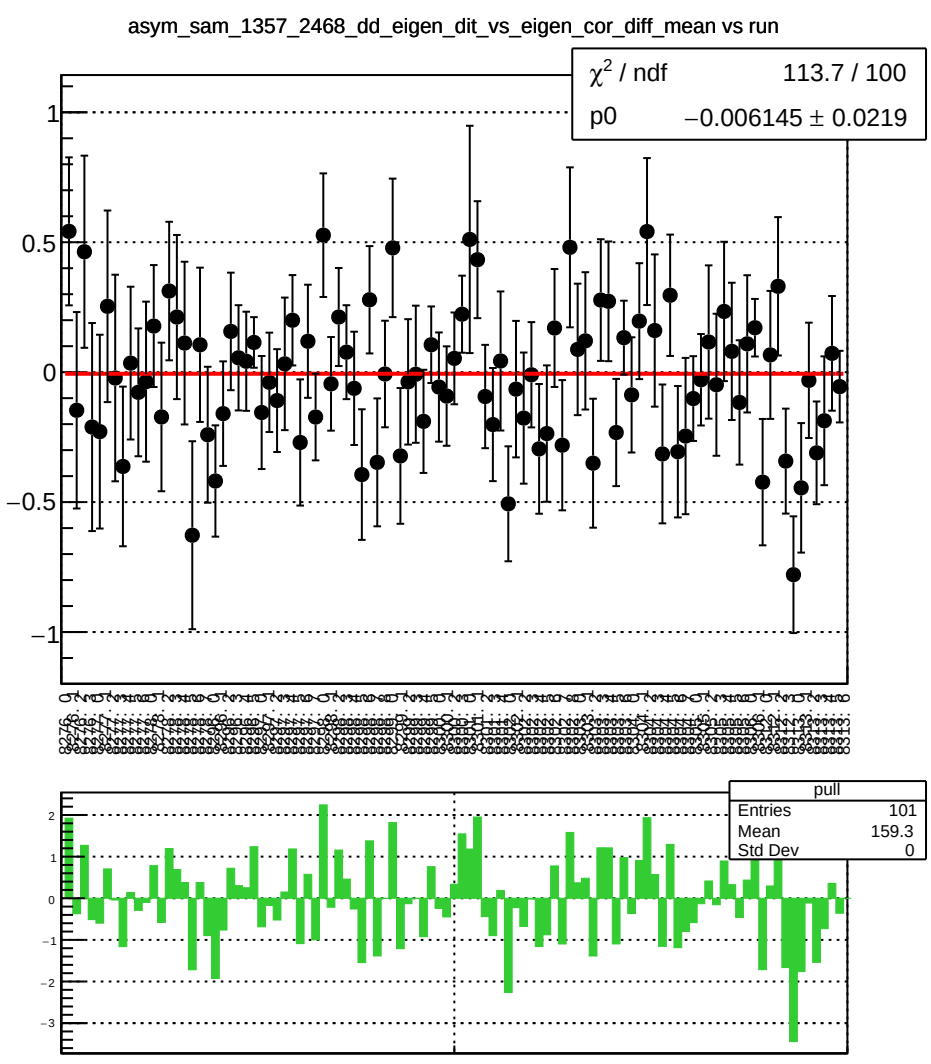

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.122e+05 / 100
p0 20.86 ± 0.01549
40
35
30
25
20
15
10

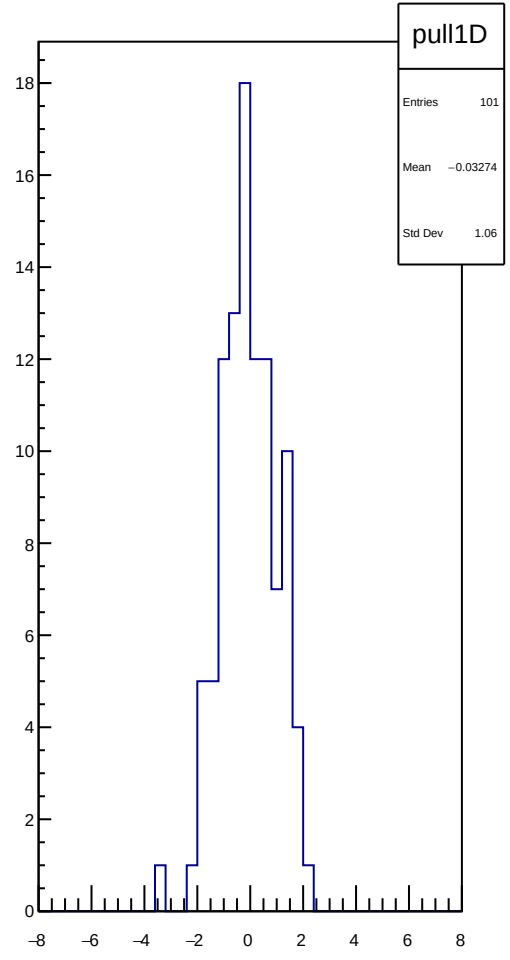

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 107.6 / 100
p0 −3.808e−07 ± 9.661e−07
pull
Entries 101
Mean −416.2
Std Dev 0
pull1D
Entries 101
Mean 0.0122
Std Dev 1.032

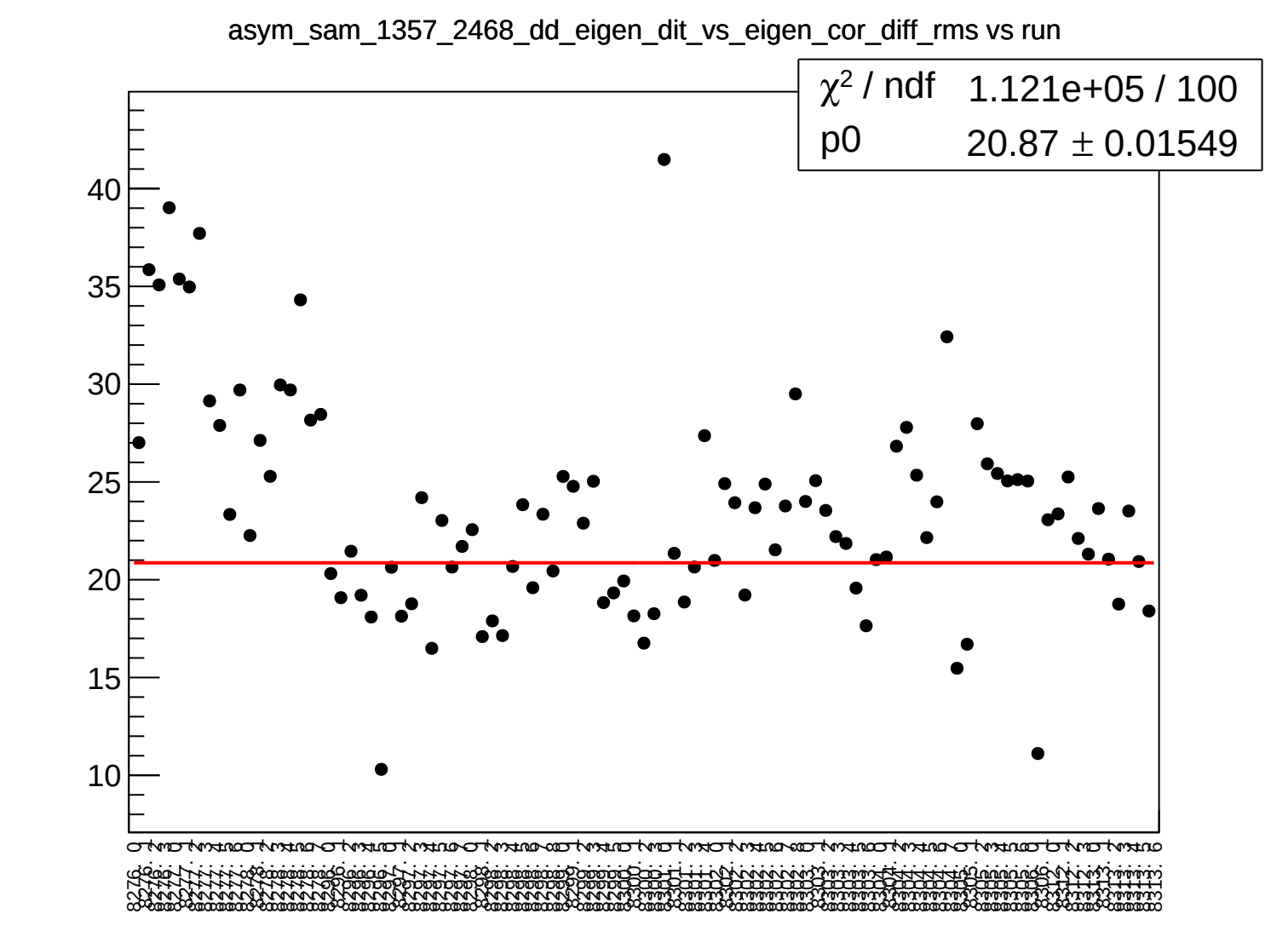

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.659e+05 / 100
p0 0.0009067 ± 6.831e−07
0.003
0.0025
0.002
0.0015
0.001
0.0005

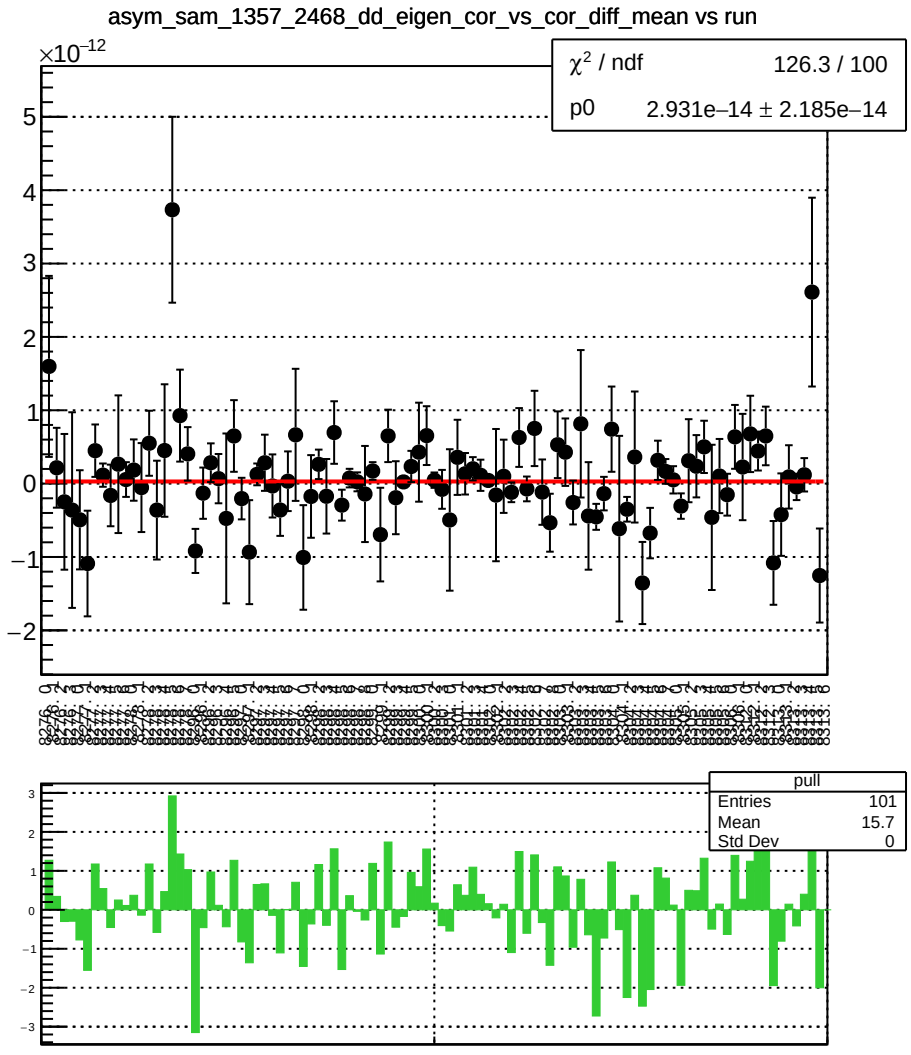

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 113.7 / 100
p0 −0.006145 ± 0.0219
pull
Entries 101
Mean 159.3
Std Dev 0
pull1D
Entries 101
Mean −0.03274
Std Dev 1.06

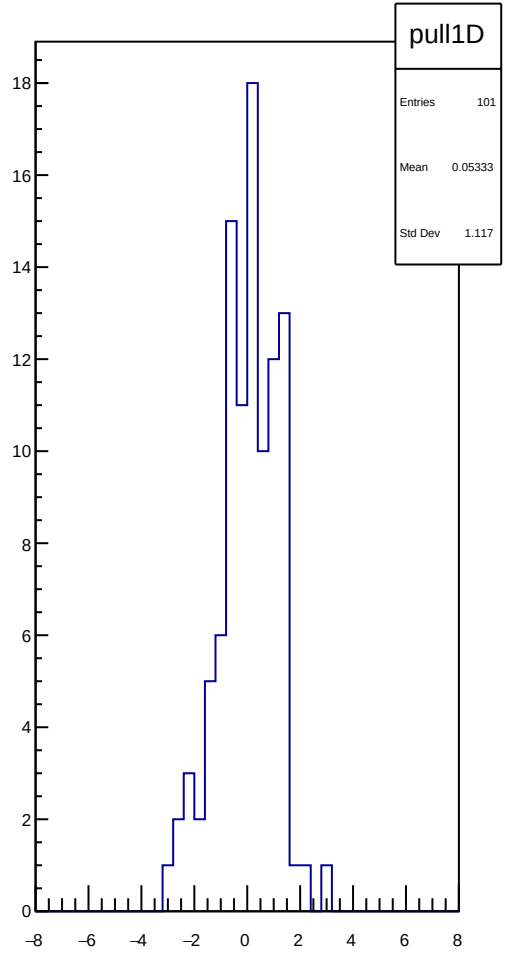

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.121e+05 / 100
p0 20.87 ± 0.01549
40
35
30
25
20
15
10

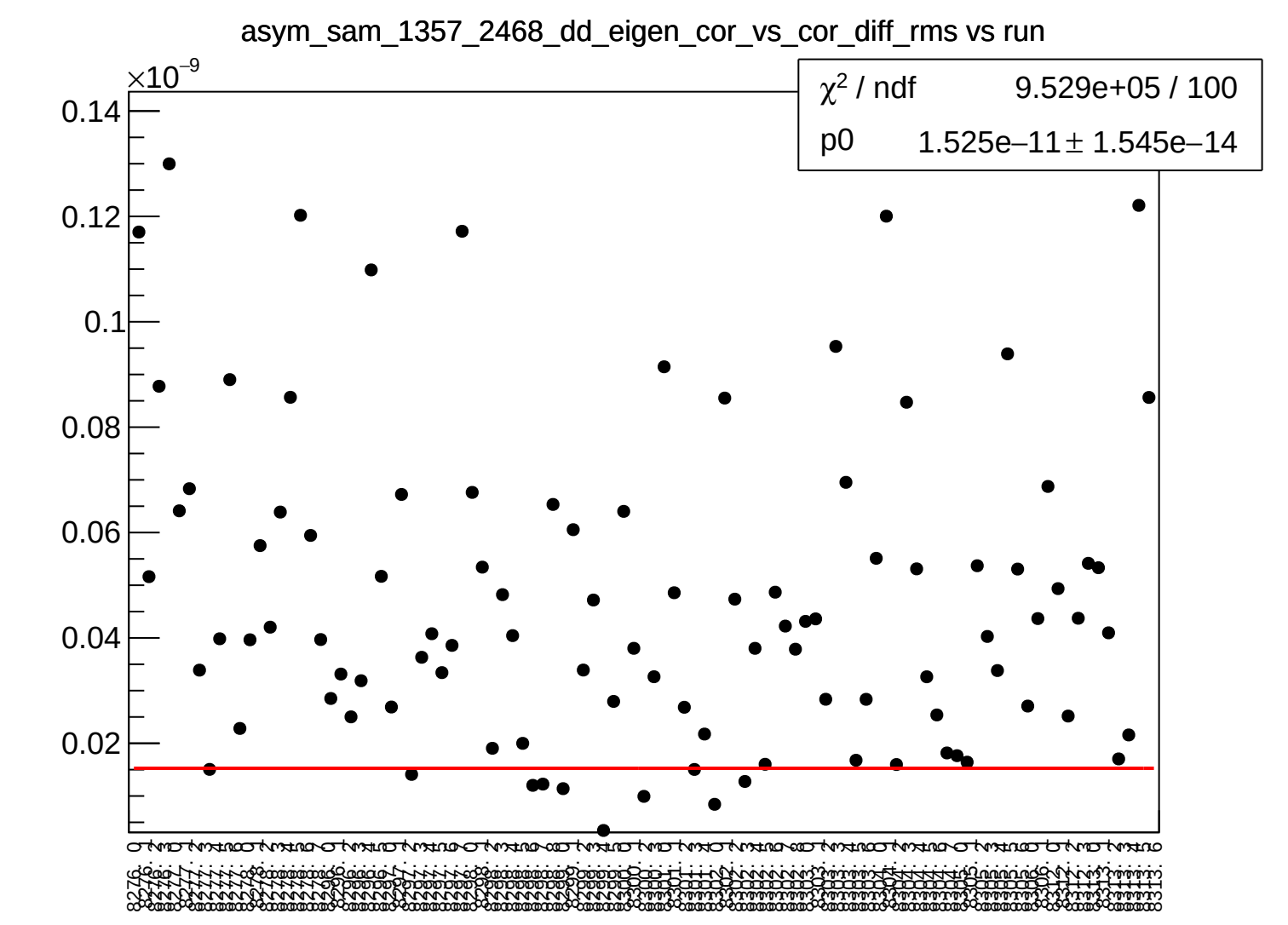

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113.7 / 100
p0 −0.006145 ± 0.0219
pull
Entries 101
Mean 159.3
Std Dev 0

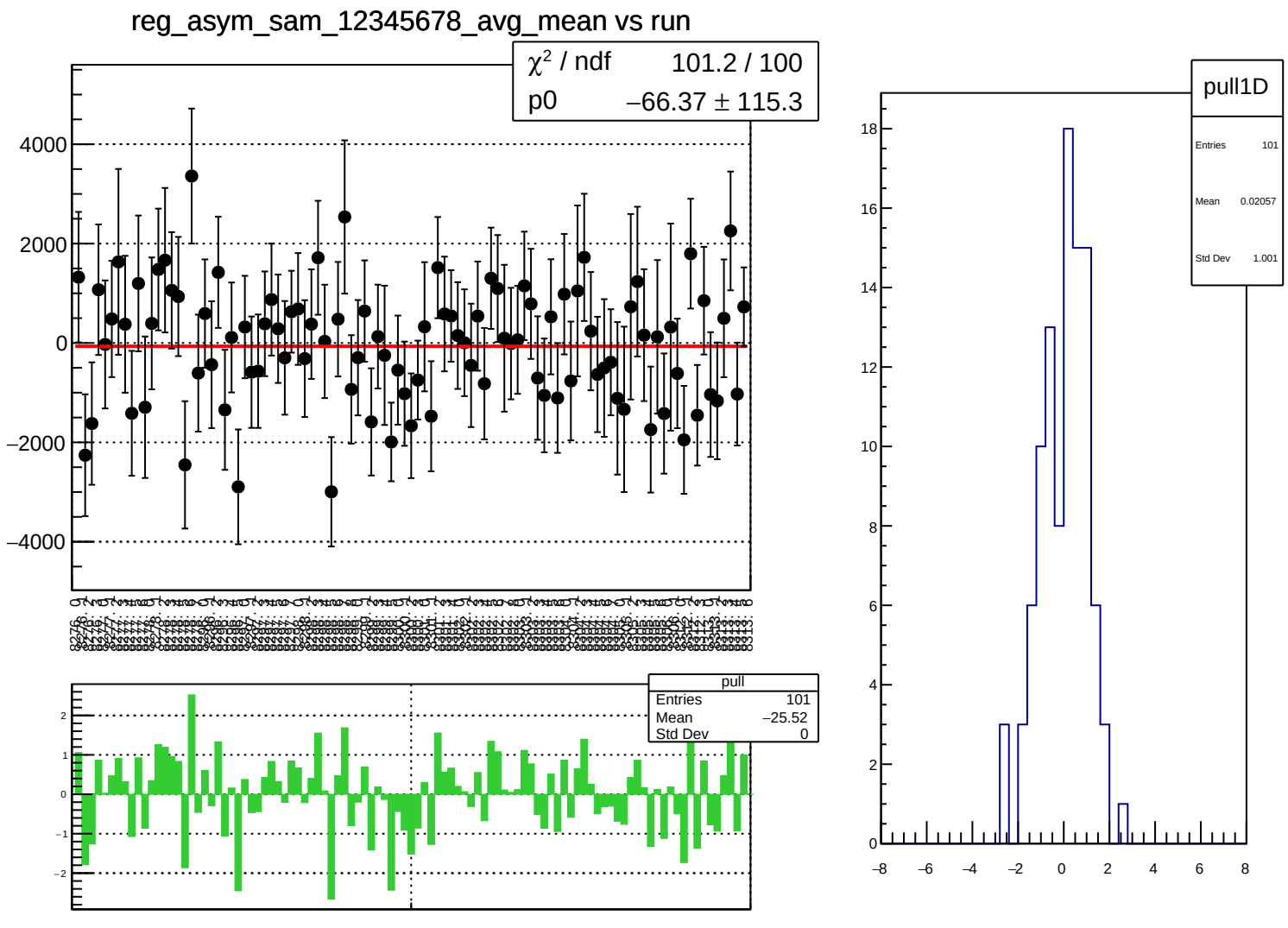

pull1D
Entries 101
Mean −0.03274
Std Dev 1.06

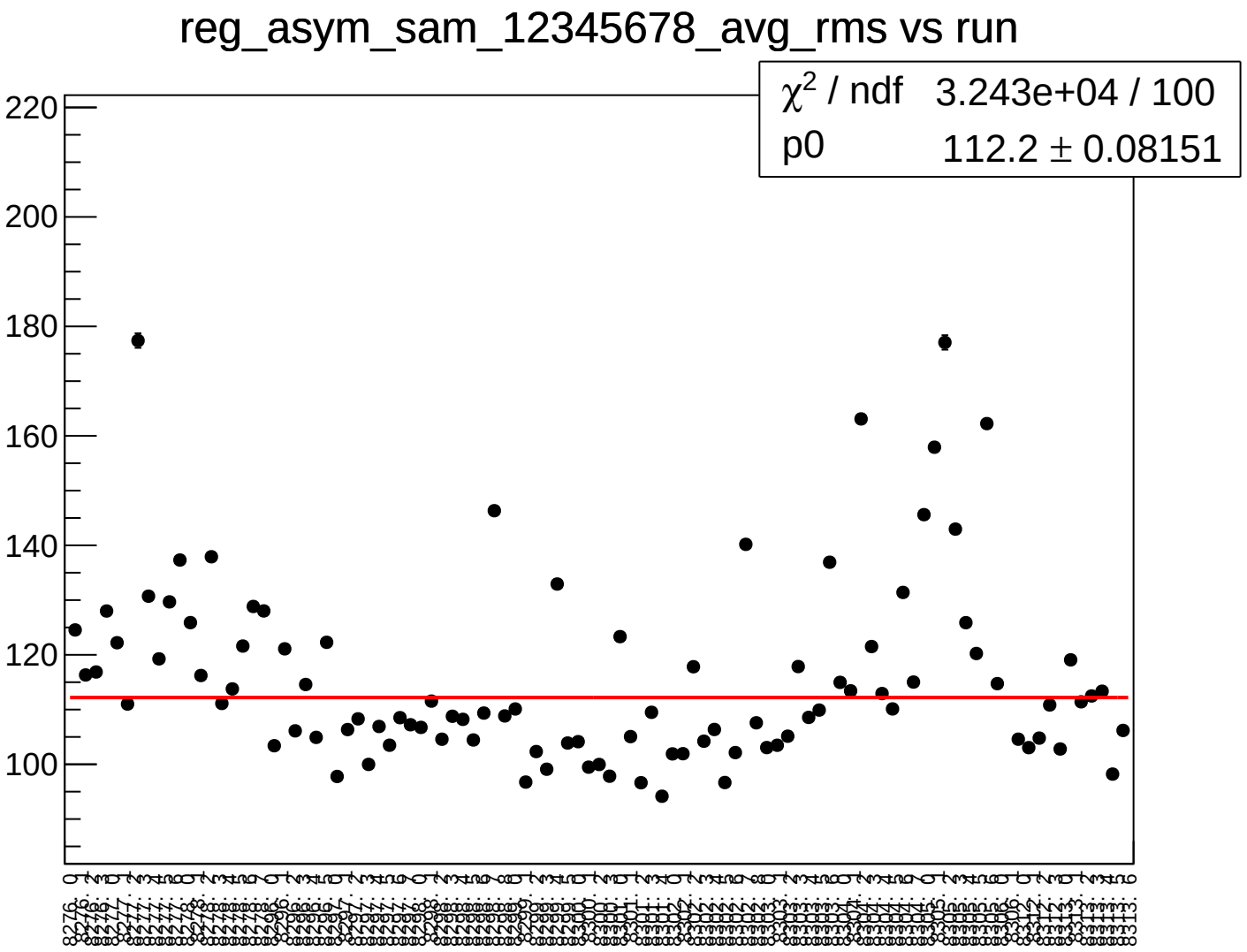

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.121e+05 / 100
p0 20.87 ± 0.01549
40
35
30
25
20
15
10

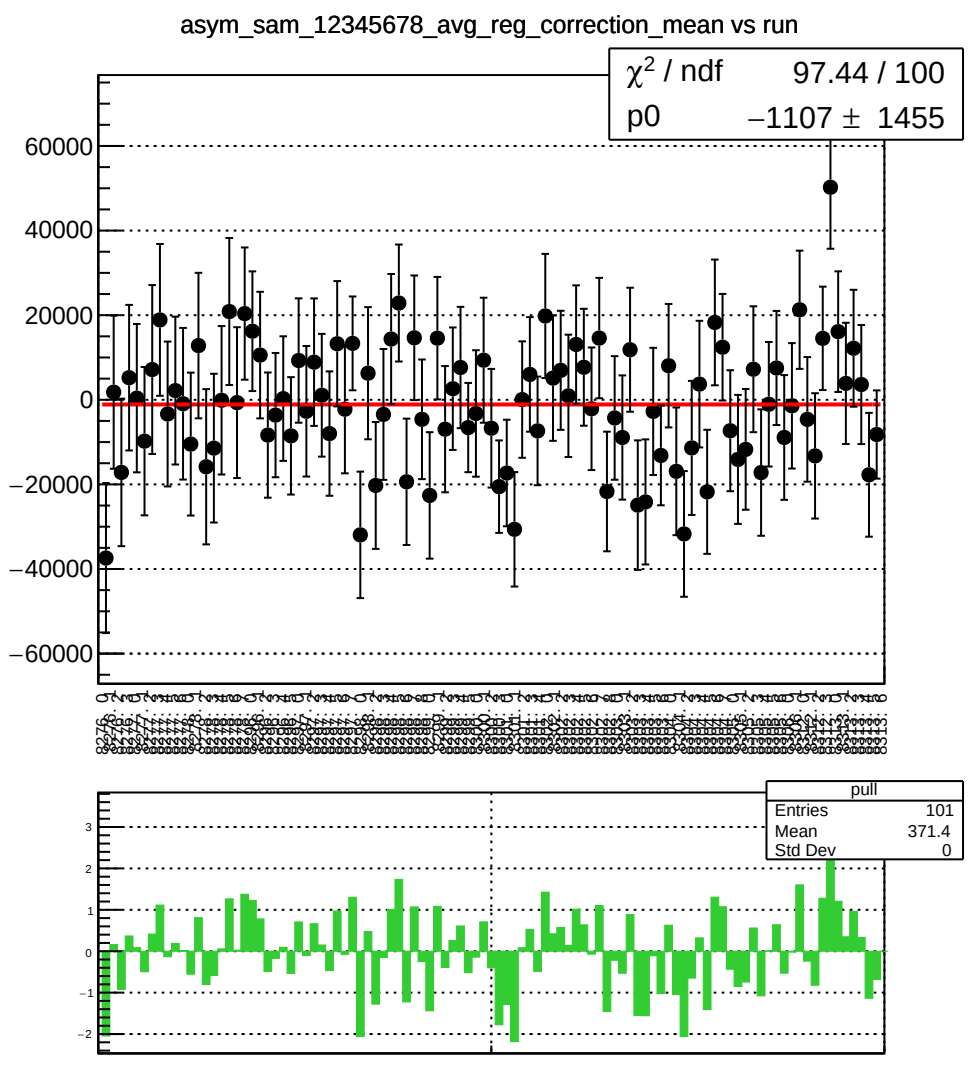

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 126.3 / 100
p0 2.931e−14 ± 2.185e−14
pull
Entries 101
Mean 15.7
Std Dev 0

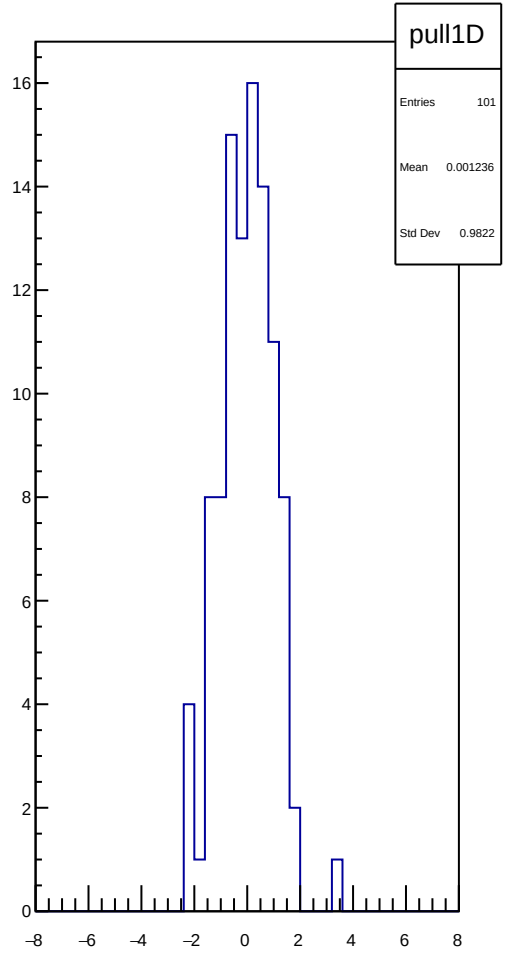

pull1D
Entries 101
Mean 0.05333
Std Dev 1.117

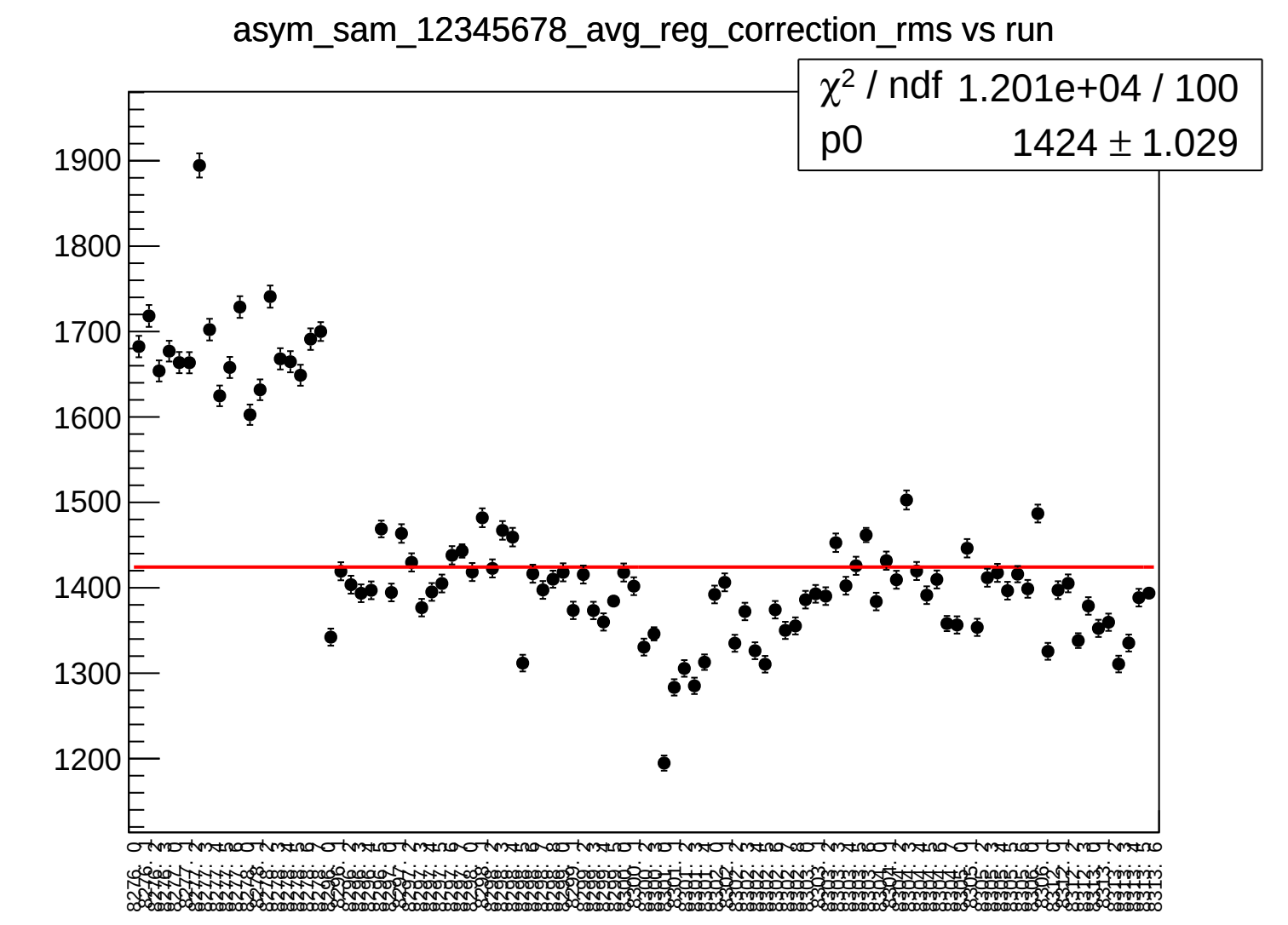

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.529e+05 / 100
p0 1.525e−11 ± 1.545e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

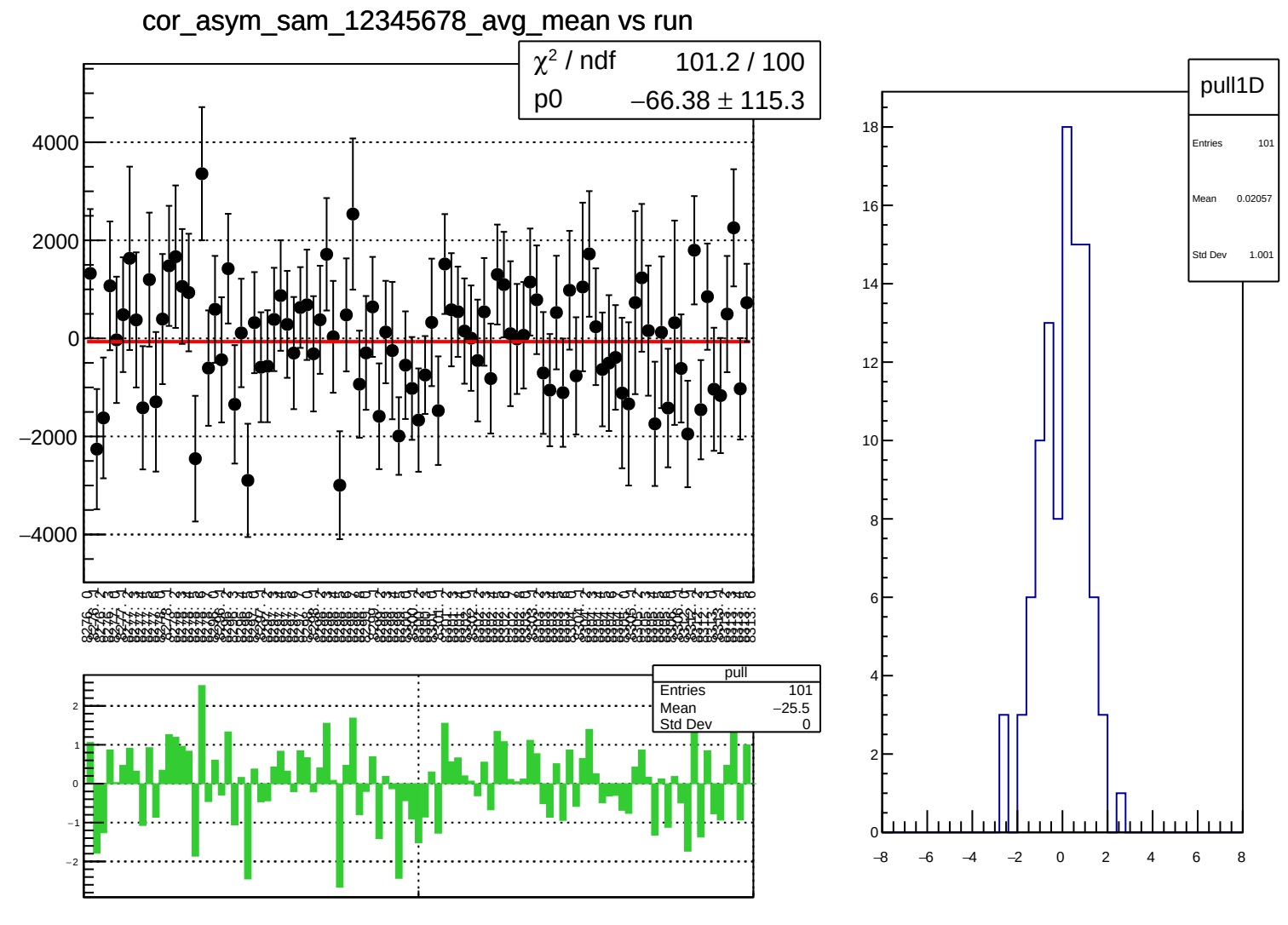

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 101.2 / 100
p0 −66.37 ± 115.3
4000
2000
0
−2000
−4000
pull
Entries 101
Mean −25.52
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.02057
Std Dev 1.001
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

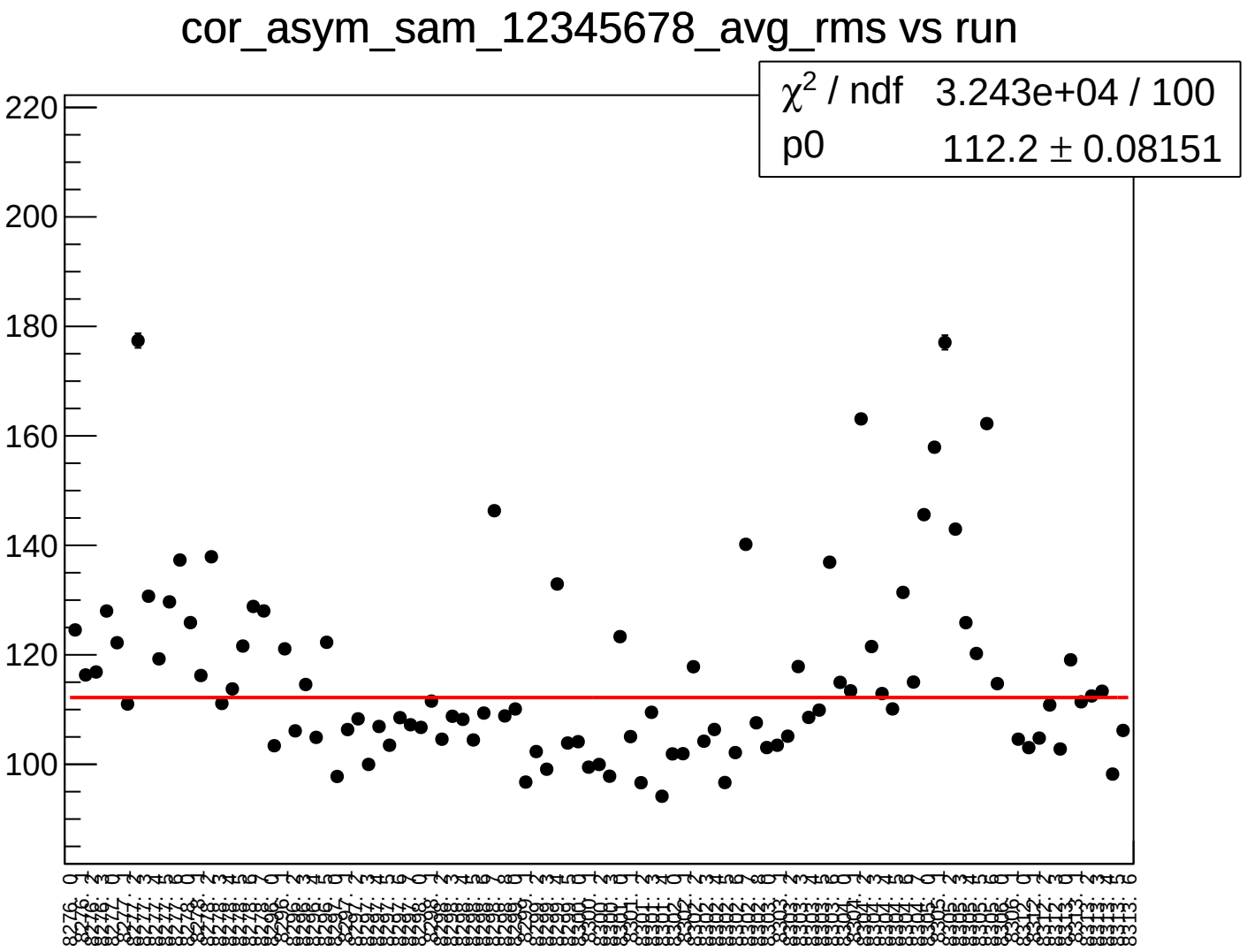

reg_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 3.243e+04 / 100
p0 112.2 ± 0.08151
220
200
180
160
140
120
100

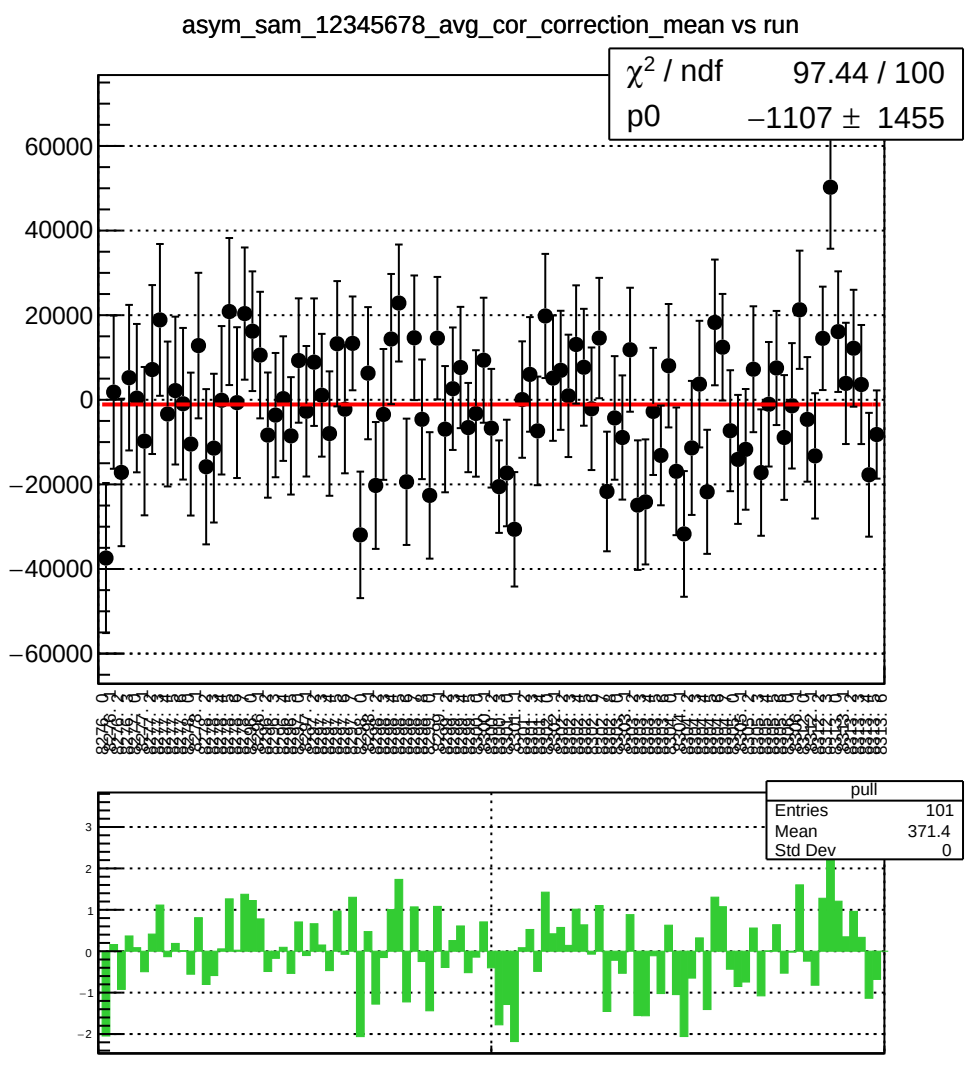

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 97.44 / 100
p0 −1107 ± 1455
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean 371.4
Std Dev 0
3
2
1
0
−1
−2

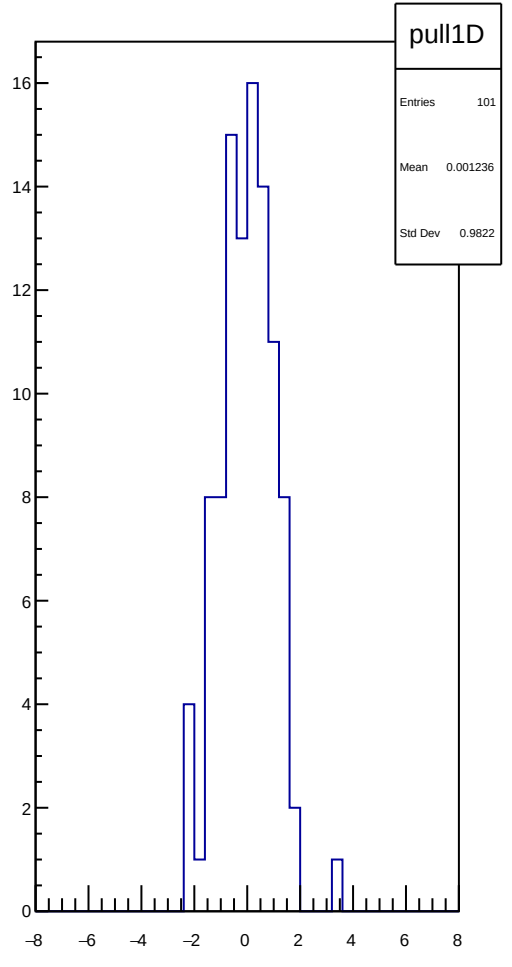

pull1D
Entries 101
Mean 0.001236
Std Dev 0.9822
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 1.201e+04 / 100
p0 1424 ± 1.029
1900
1800
1700
1600
1500
1400
1300
1200


cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 101.2 / 100
p0 −66.38 ± 115.3
4000
2000
0
−2000
−4000
pull
Entries 101
Mean −25.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.02057
Std Dev 1.001
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 3.243e+04 / 100
p0 112.2 ± 0.08151
220
200
180
160
140
120
100


asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 97.44 / 100
p0 −1107 ± 1455
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean 371.4
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 101
Mean 0.001236
Std Dev 0.9822
16
14
12
10
8
6
4
2
0
−8
−6
−4
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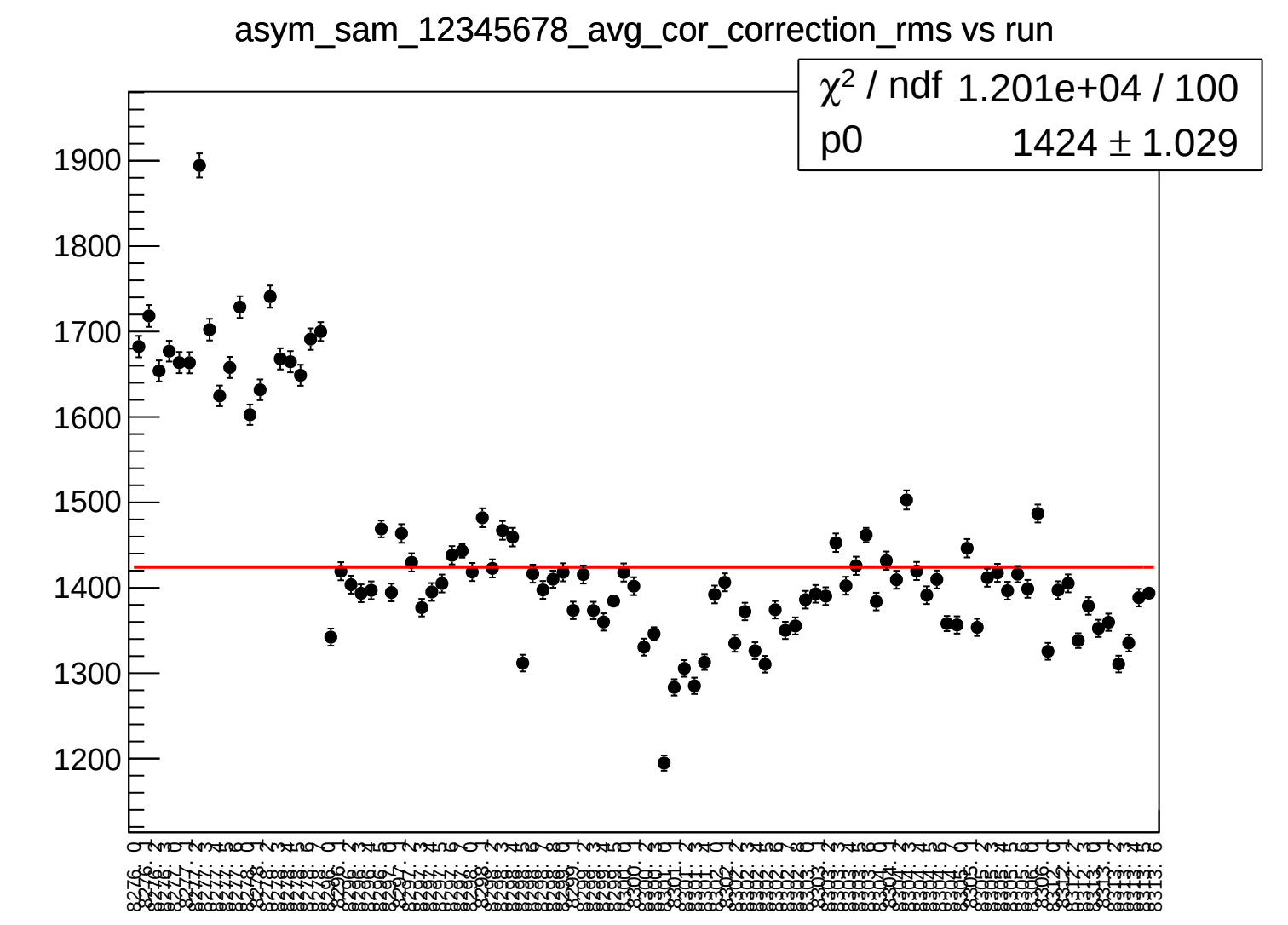
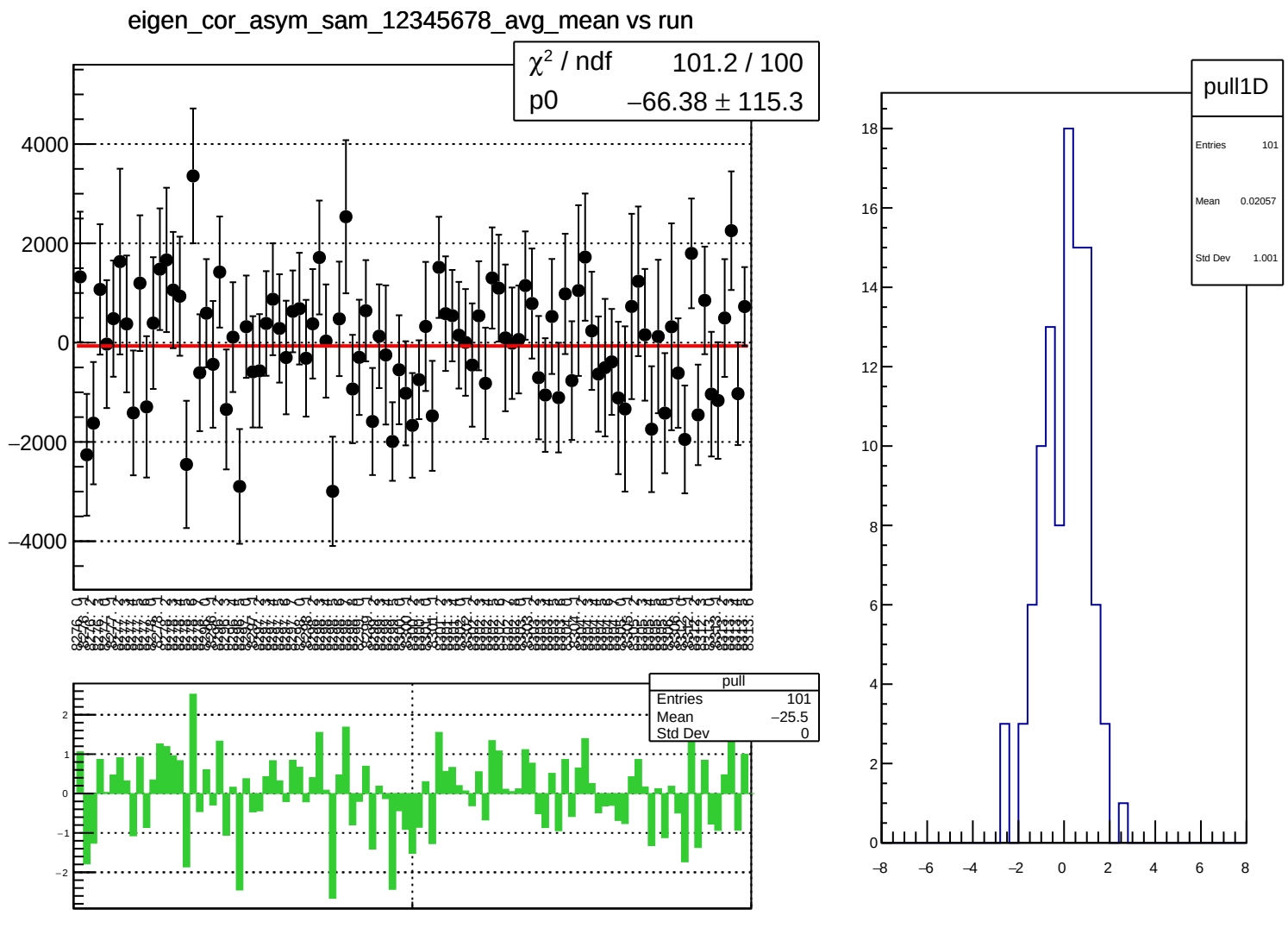
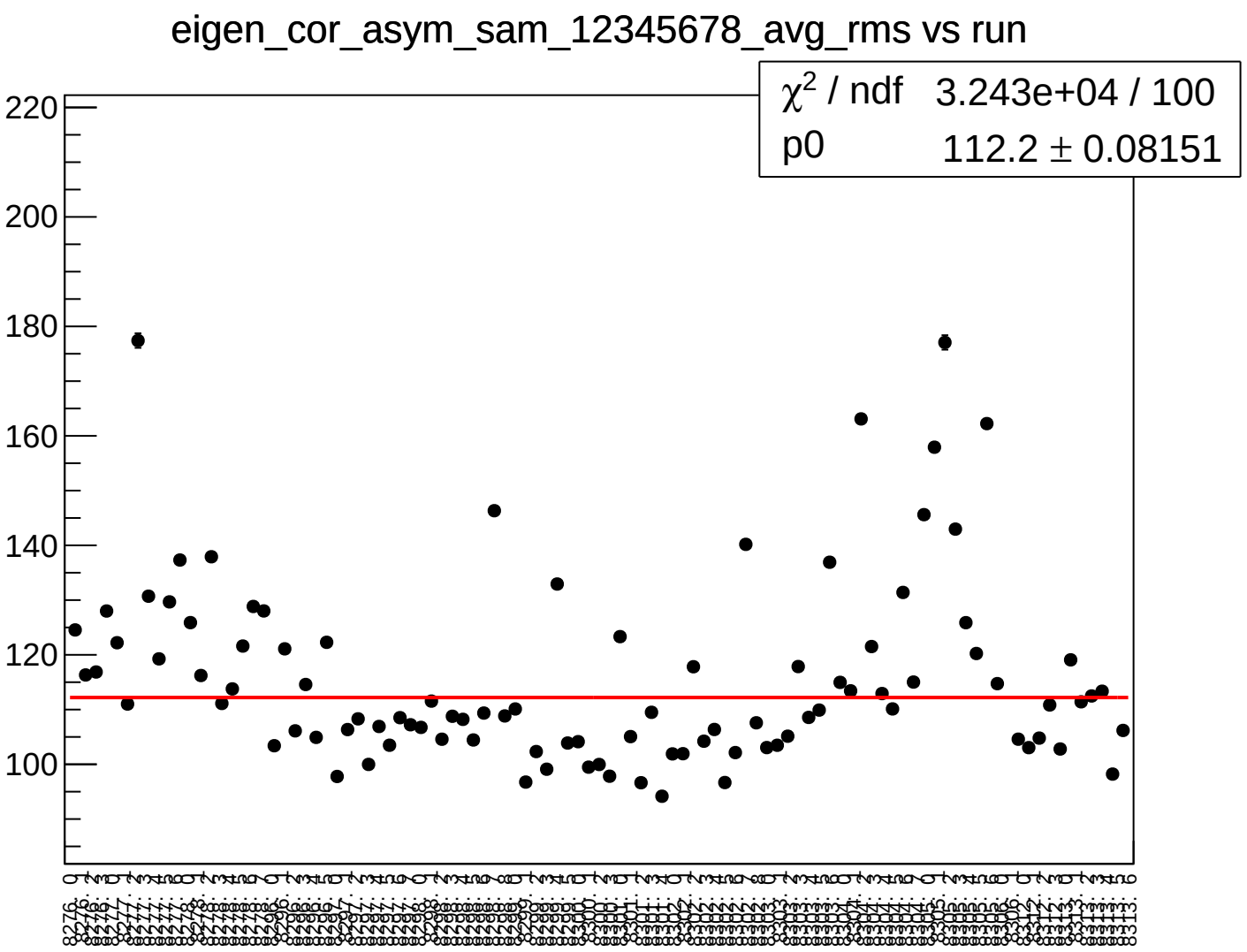
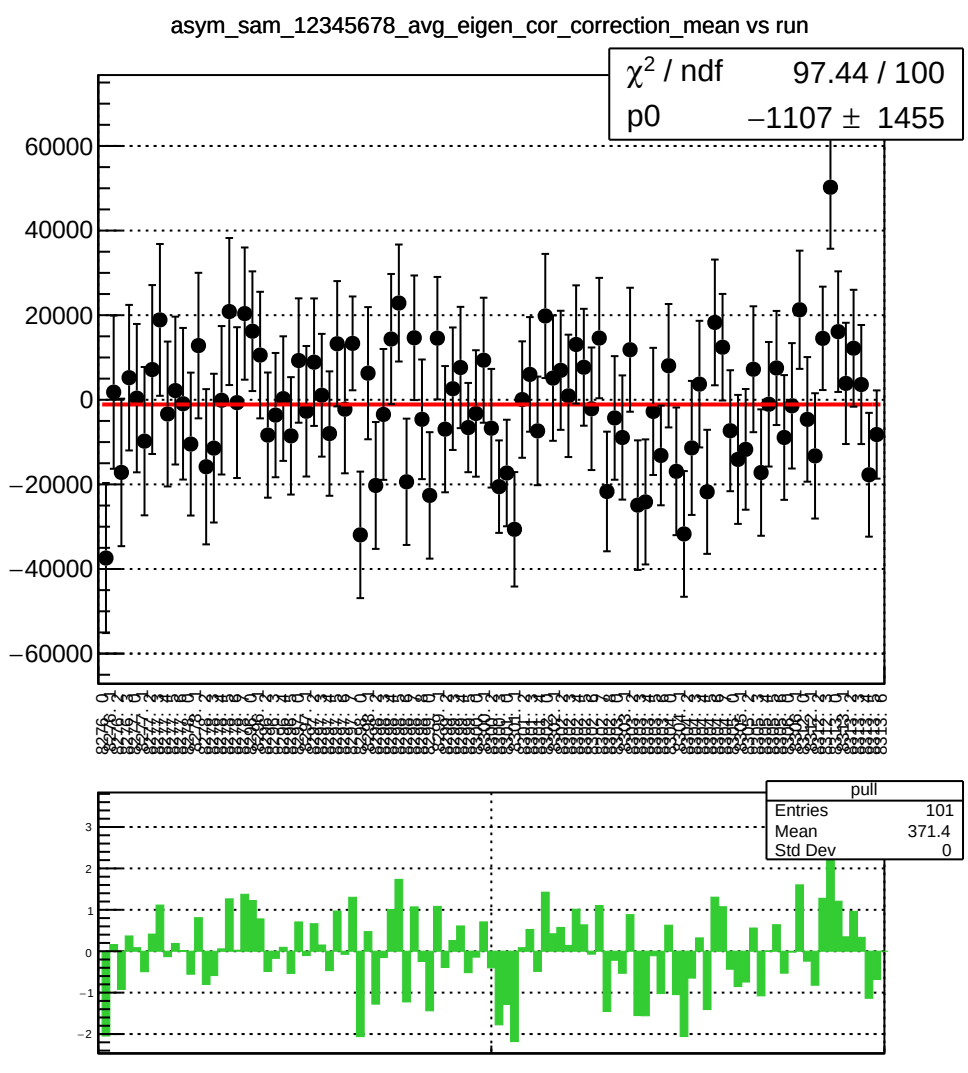
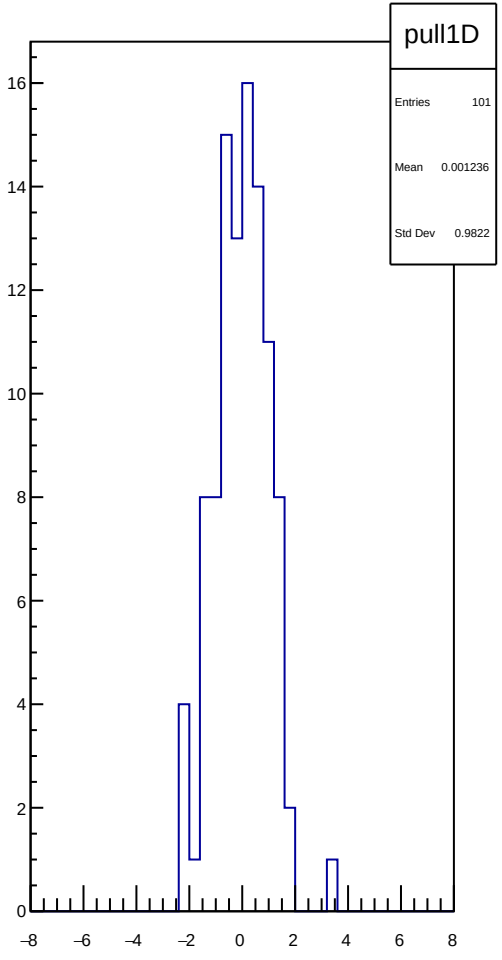
2
4
6
8

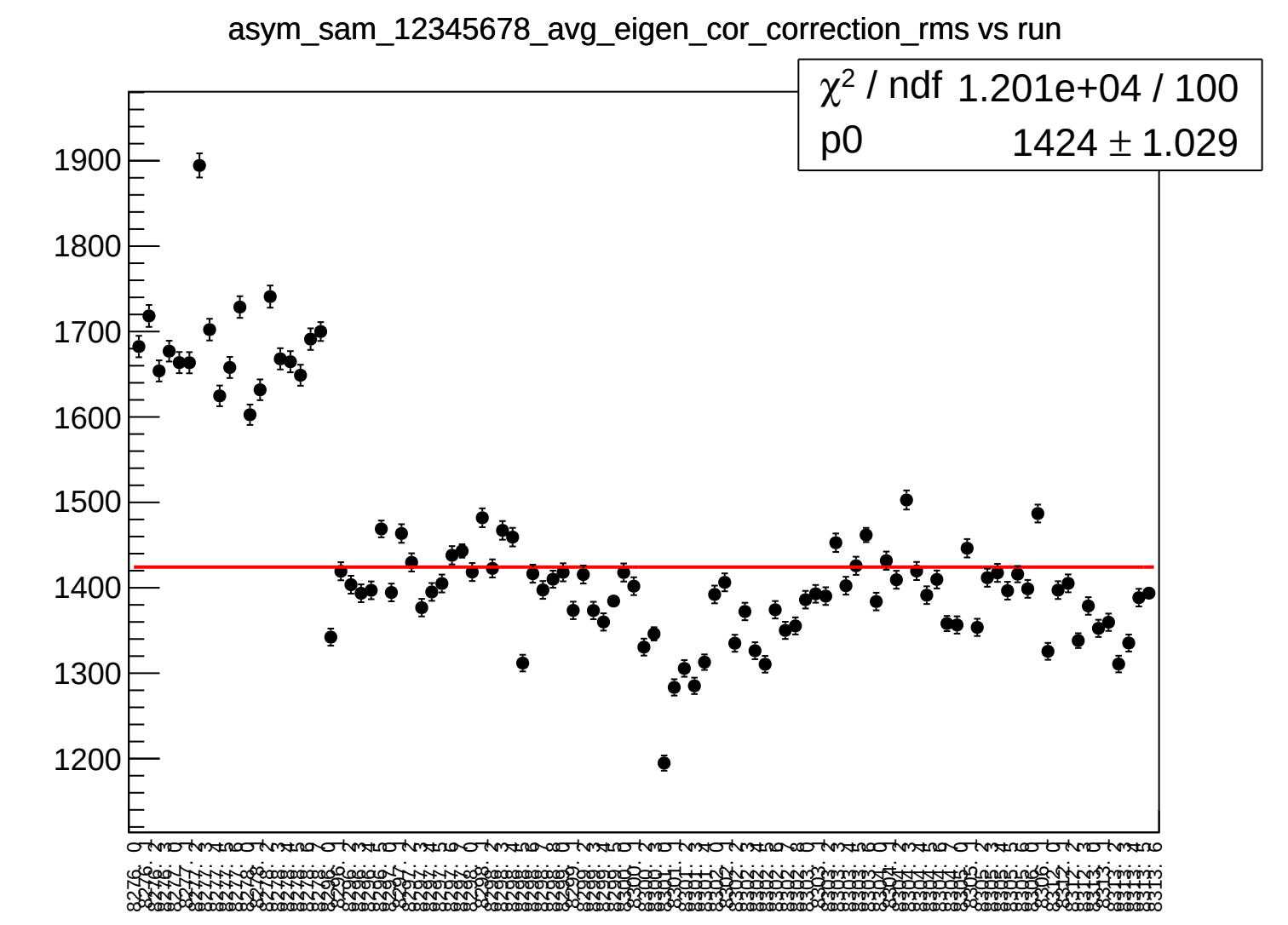

asym_sam_12345678_avg_cor_correction_rms vs run
χ² / ndf 1.201e+04 / 100
p0 1424 ± 1.029
1900
1800
1700
1600
1500
1400
1300
1200

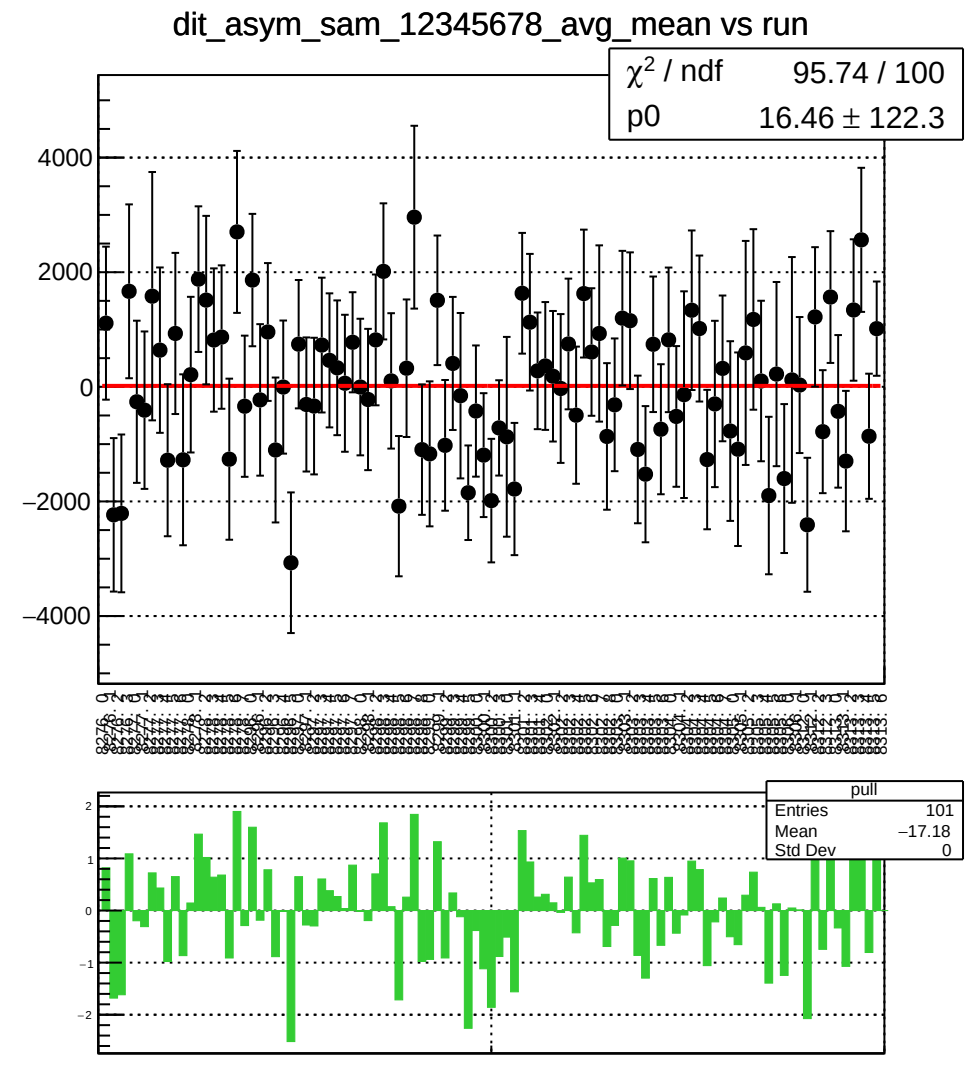

eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 101.2 / 100
p0 −66.38 ± 115.3
4000
2000
0
−2000
−4000
pull
Entries 101
Mean −25.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.02057
Std Dev 1.001
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

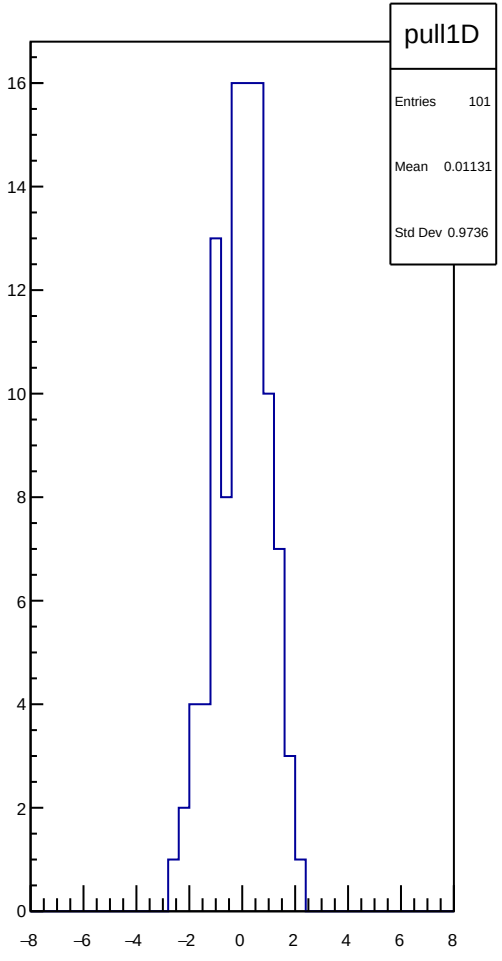

eigen_cor_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 3.243e+04 / 100
p0 112.2 ± 0.08151
220
200
180
160
140
120
100


asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 97.44 / 100
p0 −1107 ± 1455
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean 371.4
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 101
Mean 0.001236
Std Dev 0.9822
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.201e+04 / 100
p0 1424 ± 1.029
1900
1800
1700
1600
1500
1400
1300
1200


dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 95.74 / 100
p0 16.46 ± 122.3
4000
2000
0
−2000
−4000
pull
Entries 101
Mean −17.18
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 101
Mean 0.01131
Std Dev 0.9736
16
14
12
10
8
6
4
2
0
−8
−6
−4
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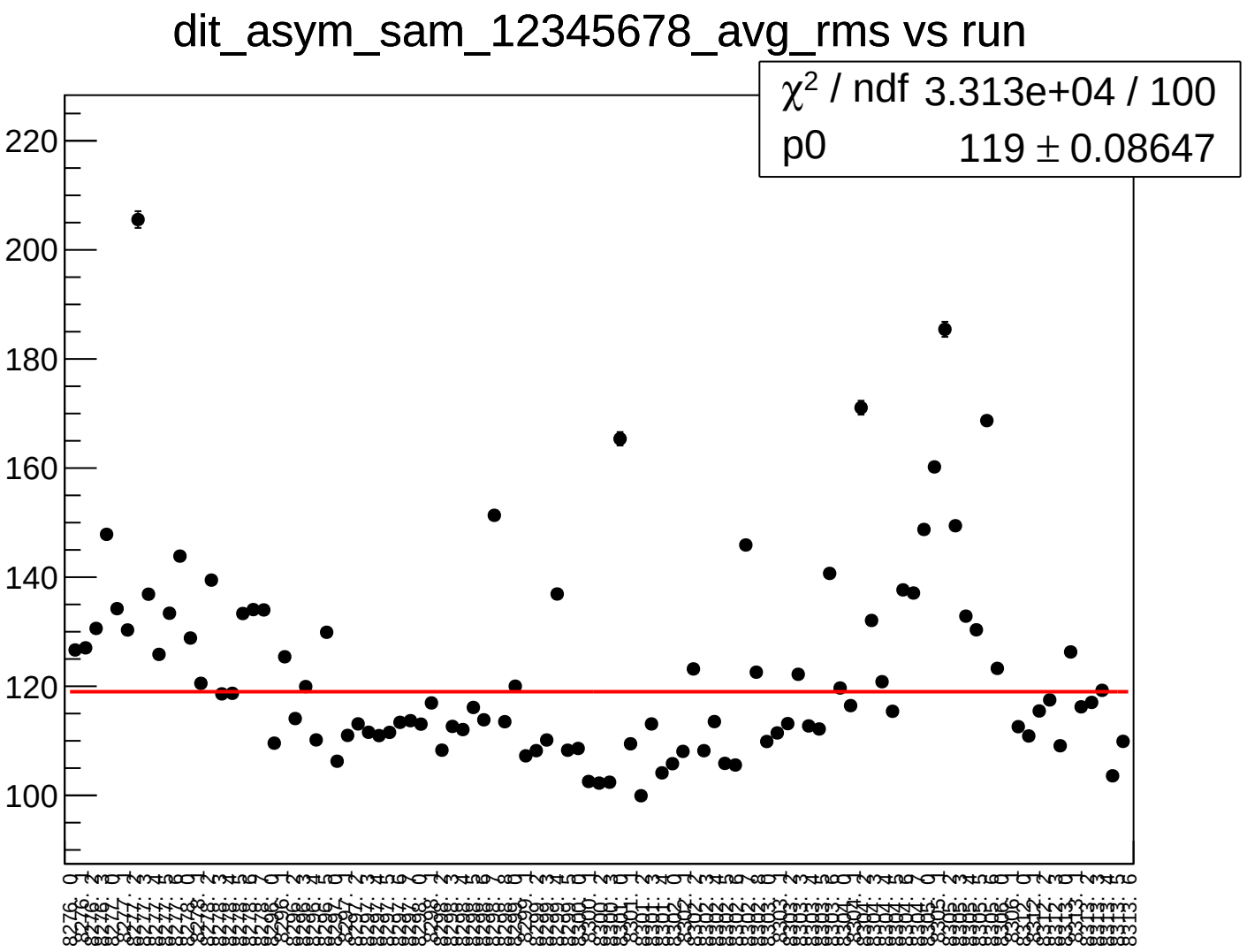
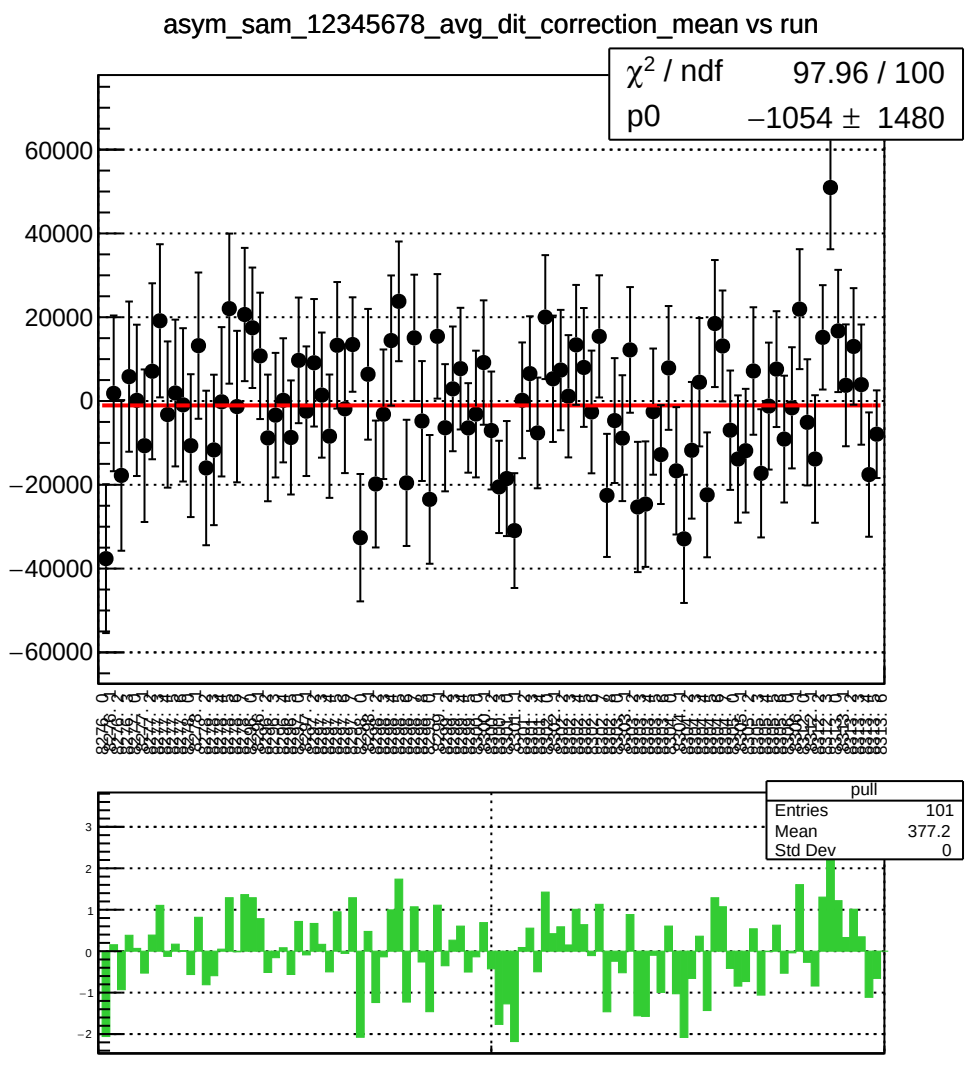
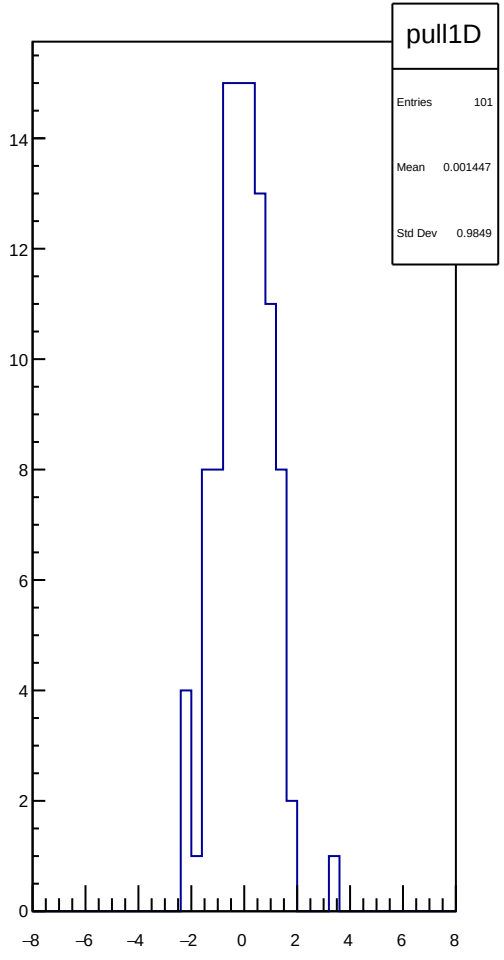
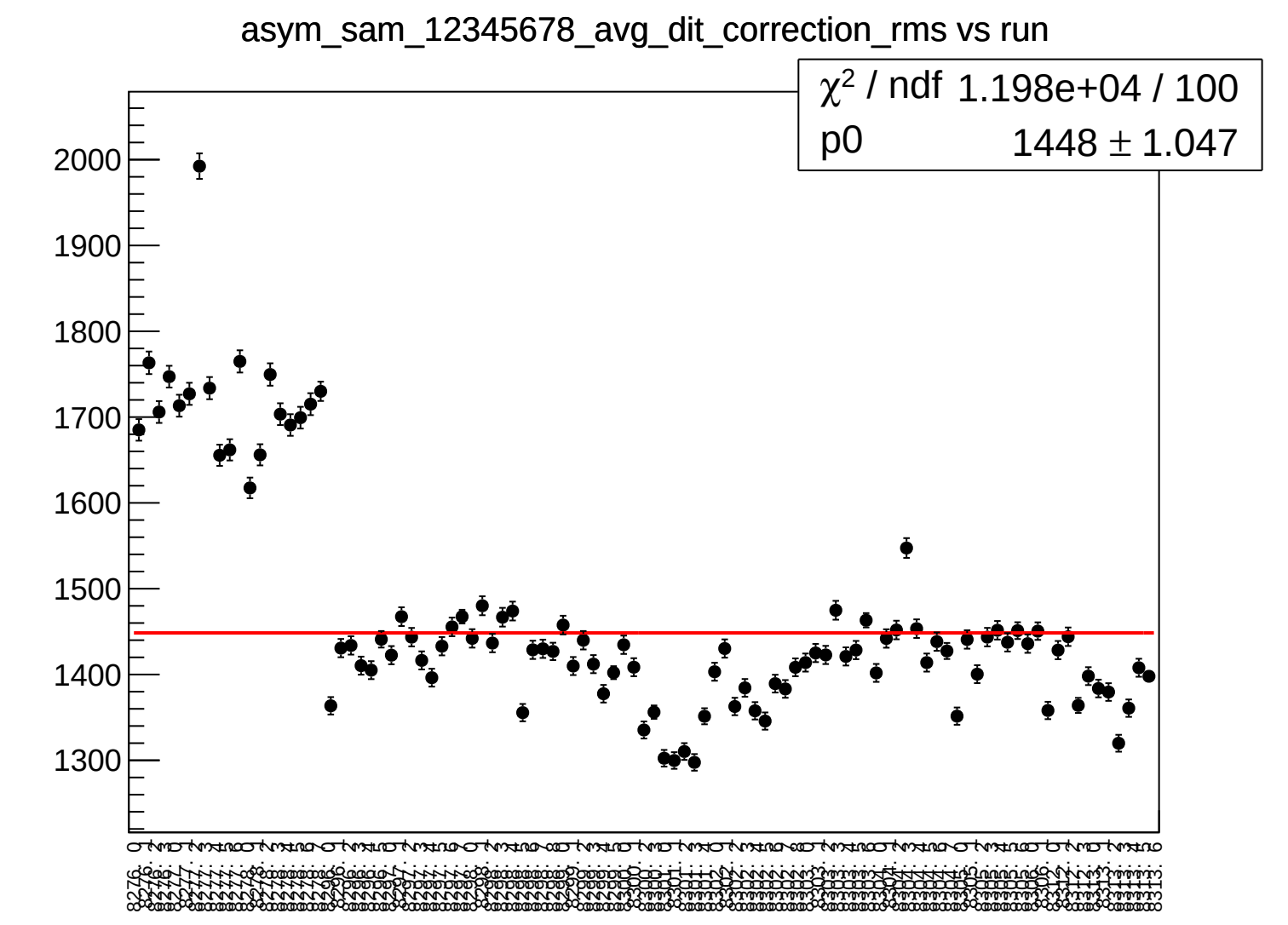
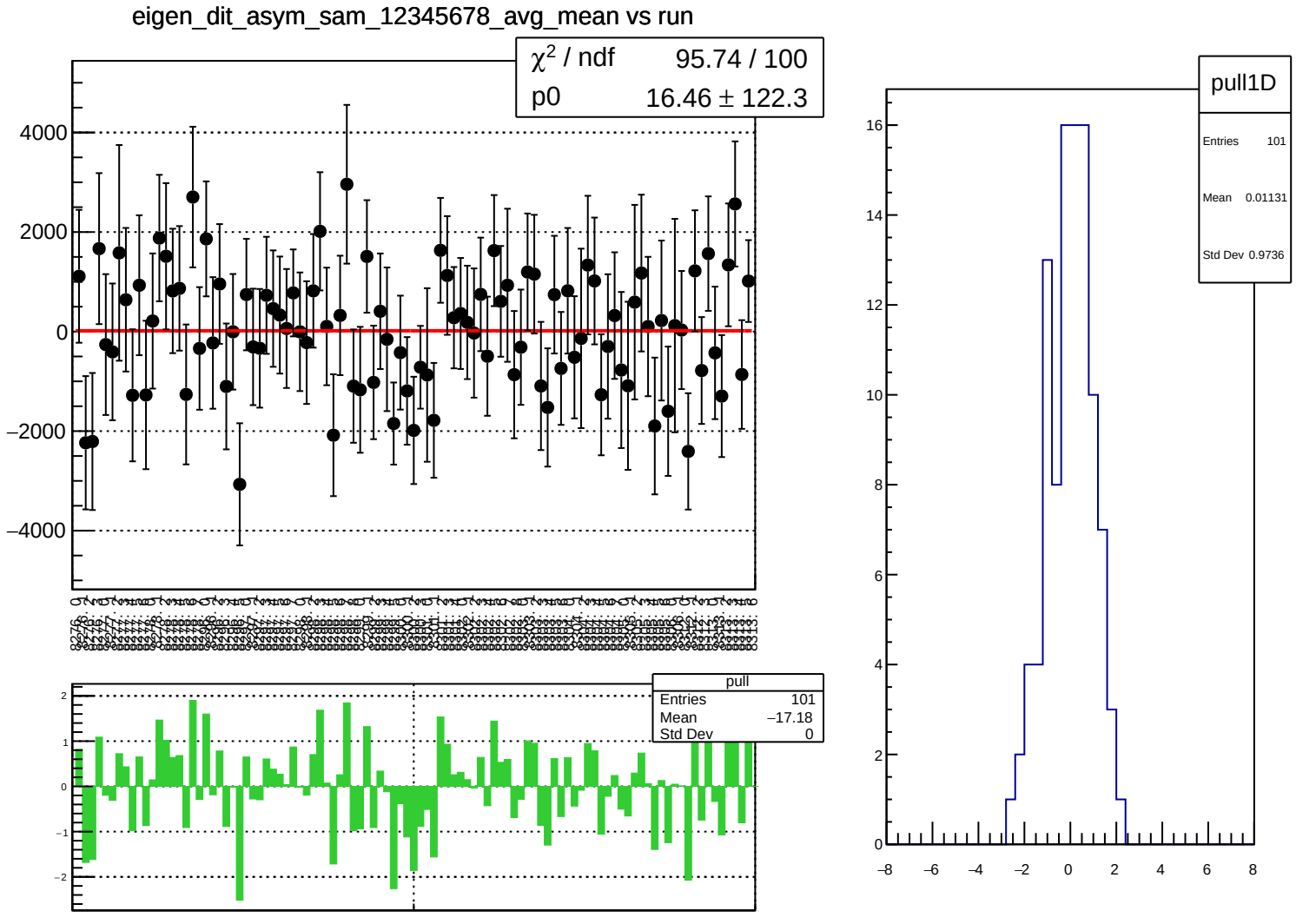
0
2
4
6
8

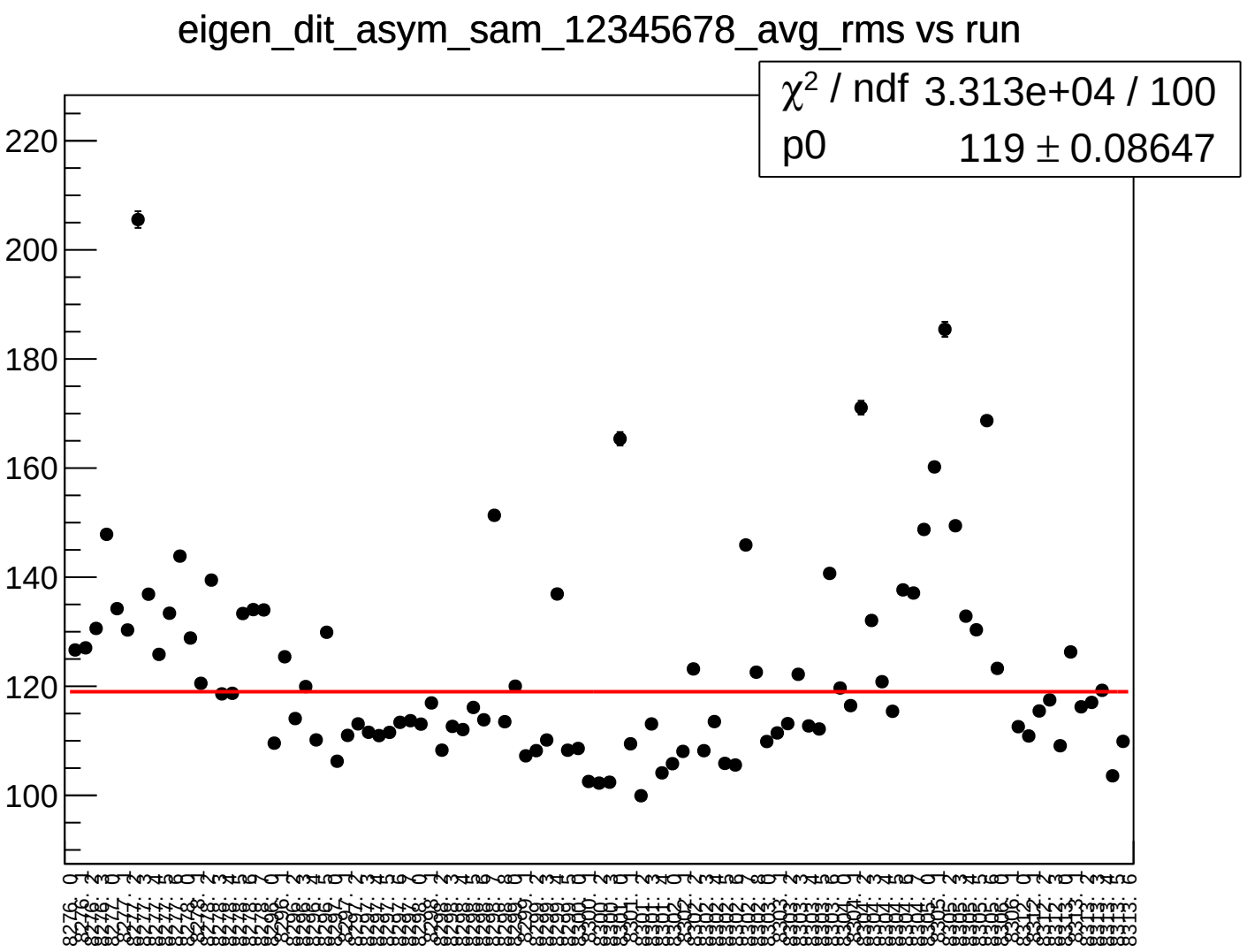

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 3.313e+04 / 100
p0 119 ± 0.08647
220
200
180
160
140
120
100

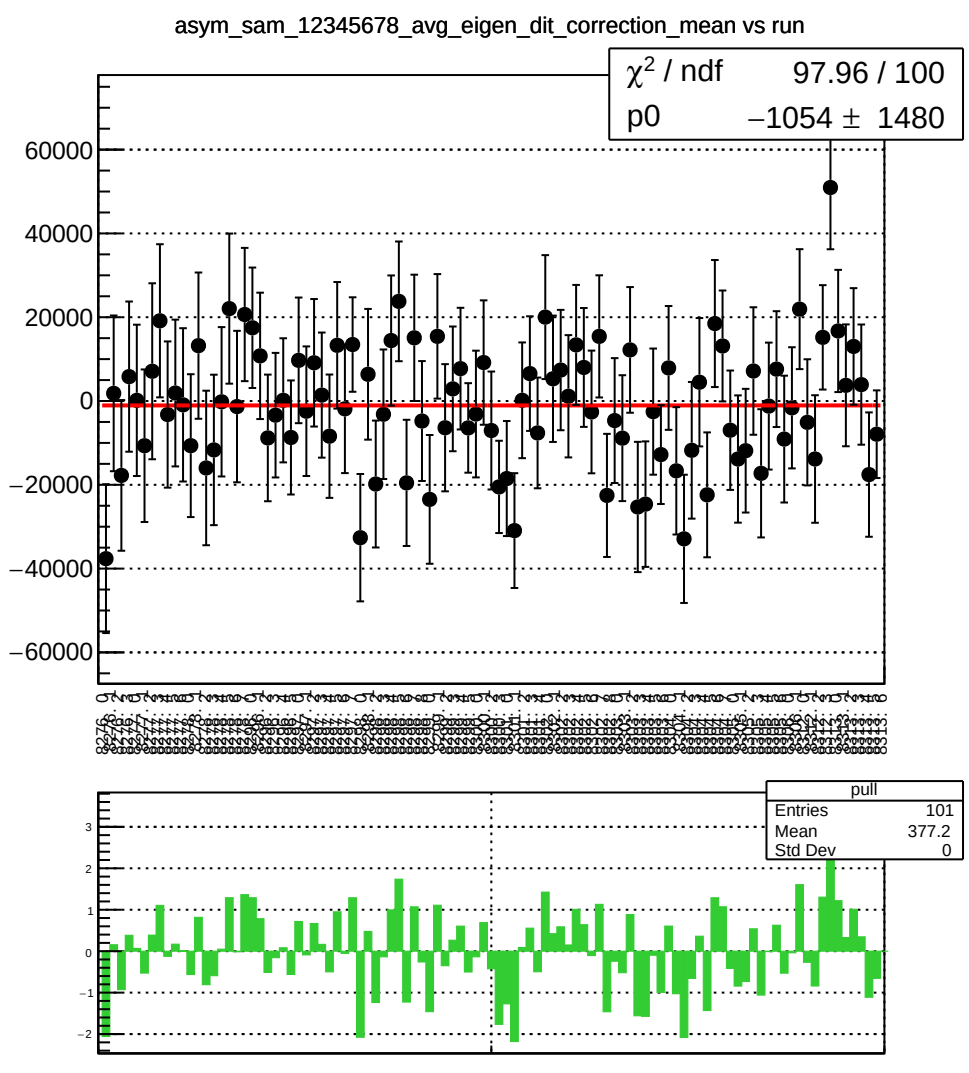

asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 97.96 / 100
p0 −1054 ± 1480
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean 377.2
Std Dev 0
3
2
1
0
−1
−2

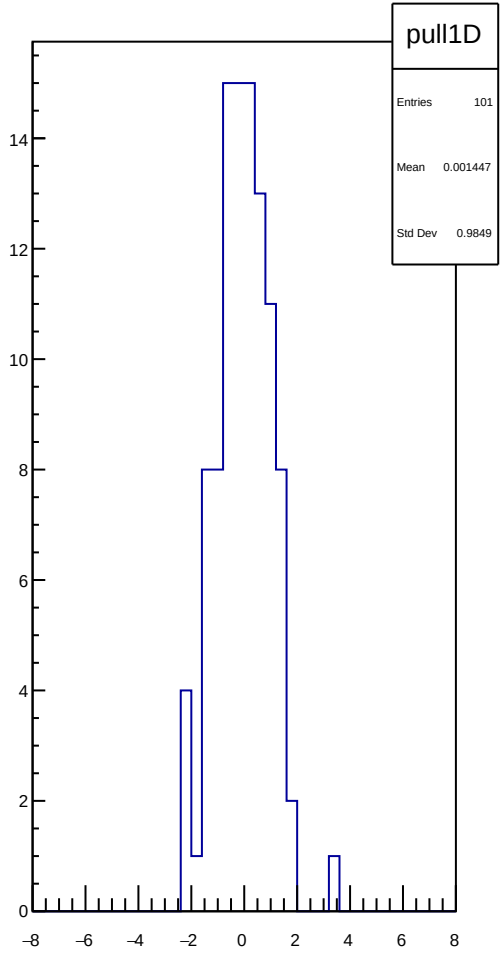

pull1D
Entries 101
Mean 0.001447
Std Dev 0.9849
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

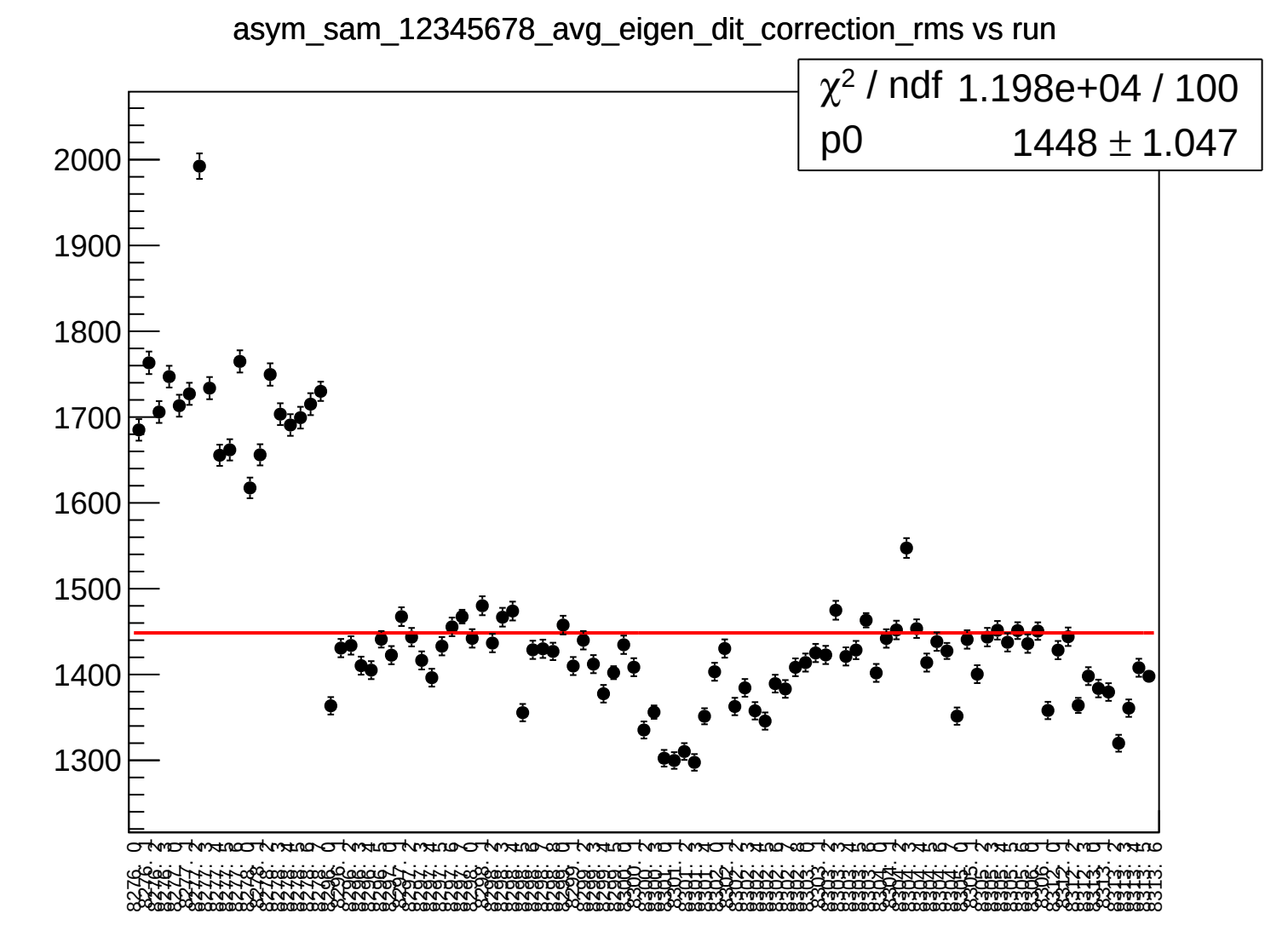

asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 1.198e+04 / 100
p0 1448 ± 1.047
2000
1900
1800
1700
1600
1500
1400
1300

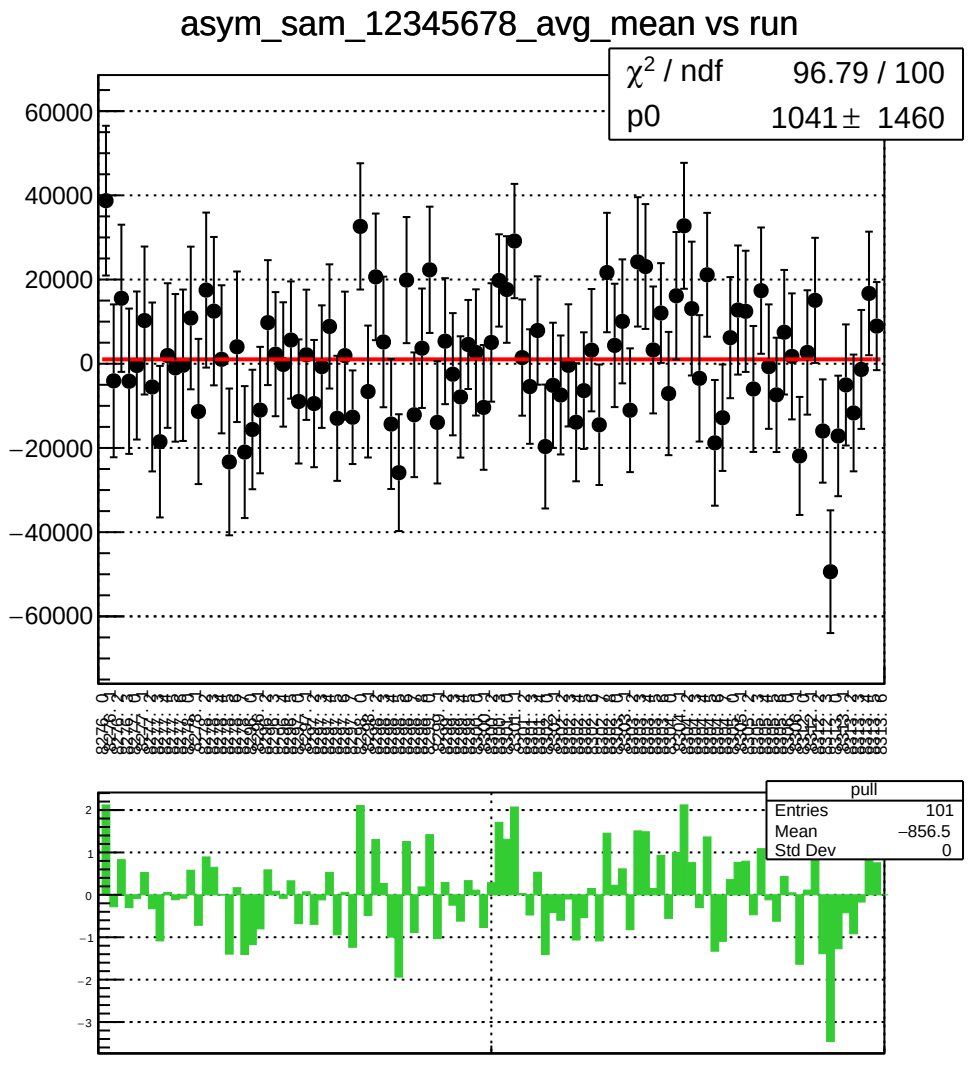

eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 95.74 / 100
p0 16.46 ± 122.3
4000
2000
0
−2000
−4000
pull
Entries 101
Mean −17.18
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean 0.01131
Std Dev 0.9736
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

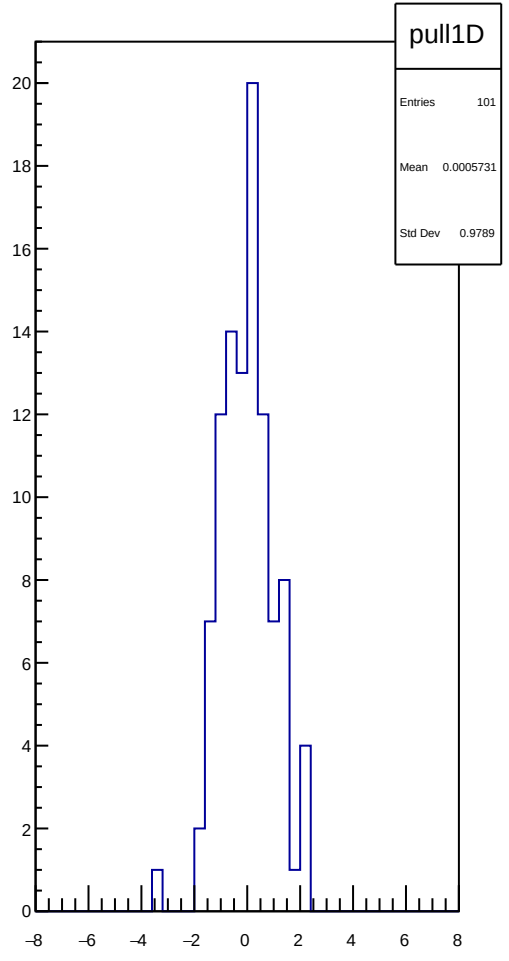

eigen_dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 3.313e+04 / 100
p0 119 ± 0.08647
220
200
180
160
140
120
100

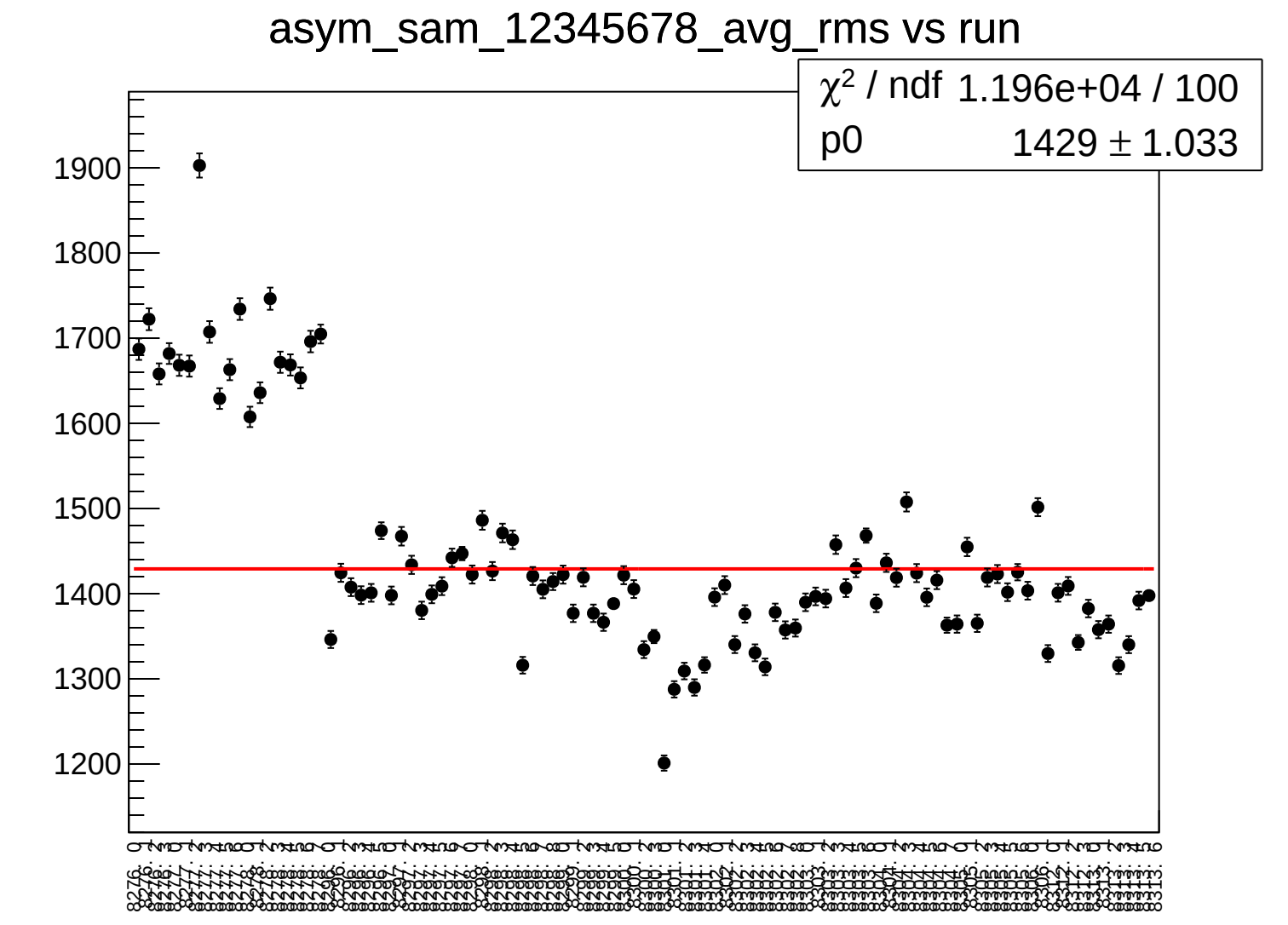

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 97.96 / 100
p0 −1054 ± 1480
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean 377.2
Std Dev 0
3
2
1
0
−1
−2

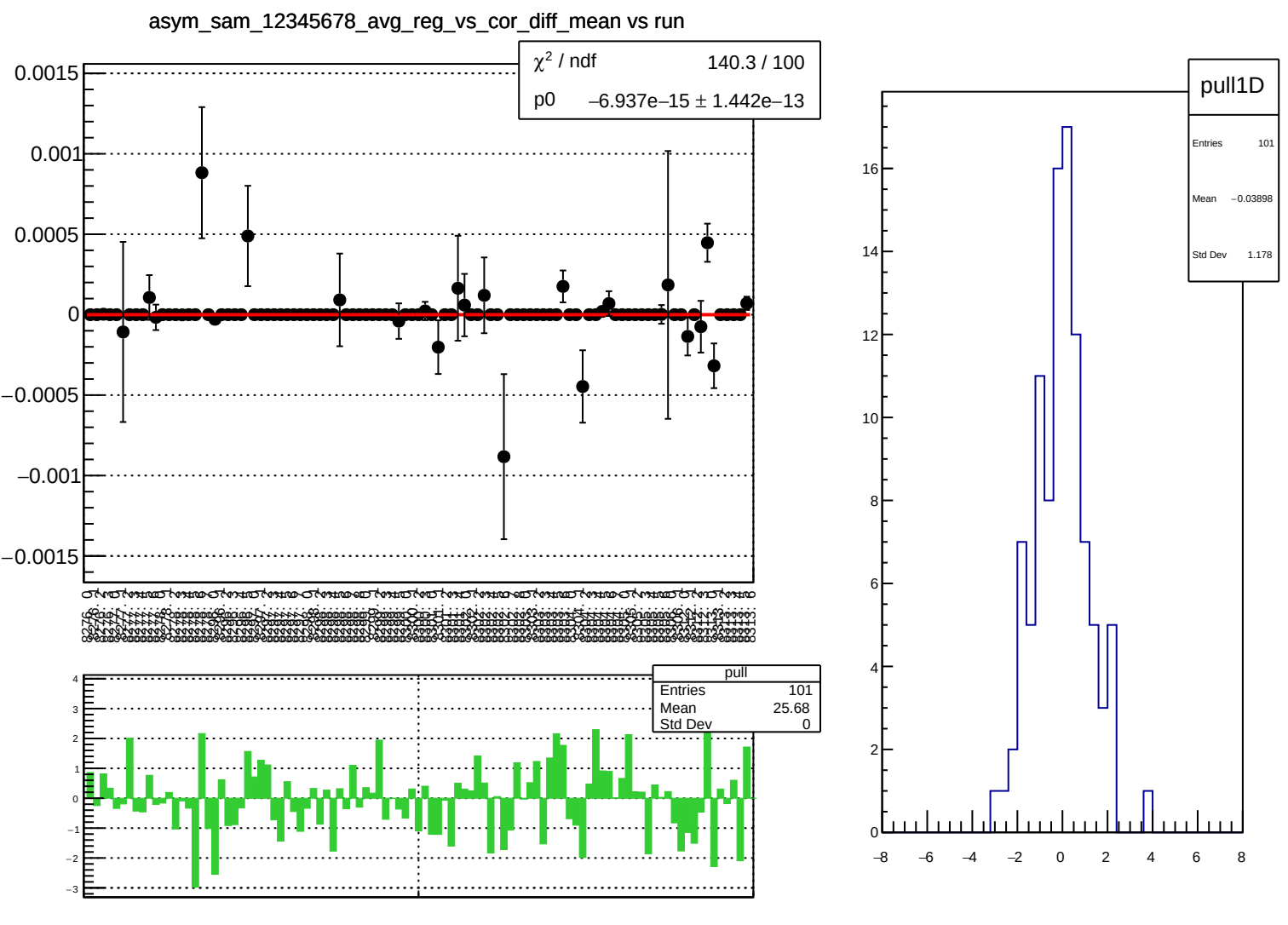

pull1D
Entries 101
Mean 0.001447
Std Dev 0.9849
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

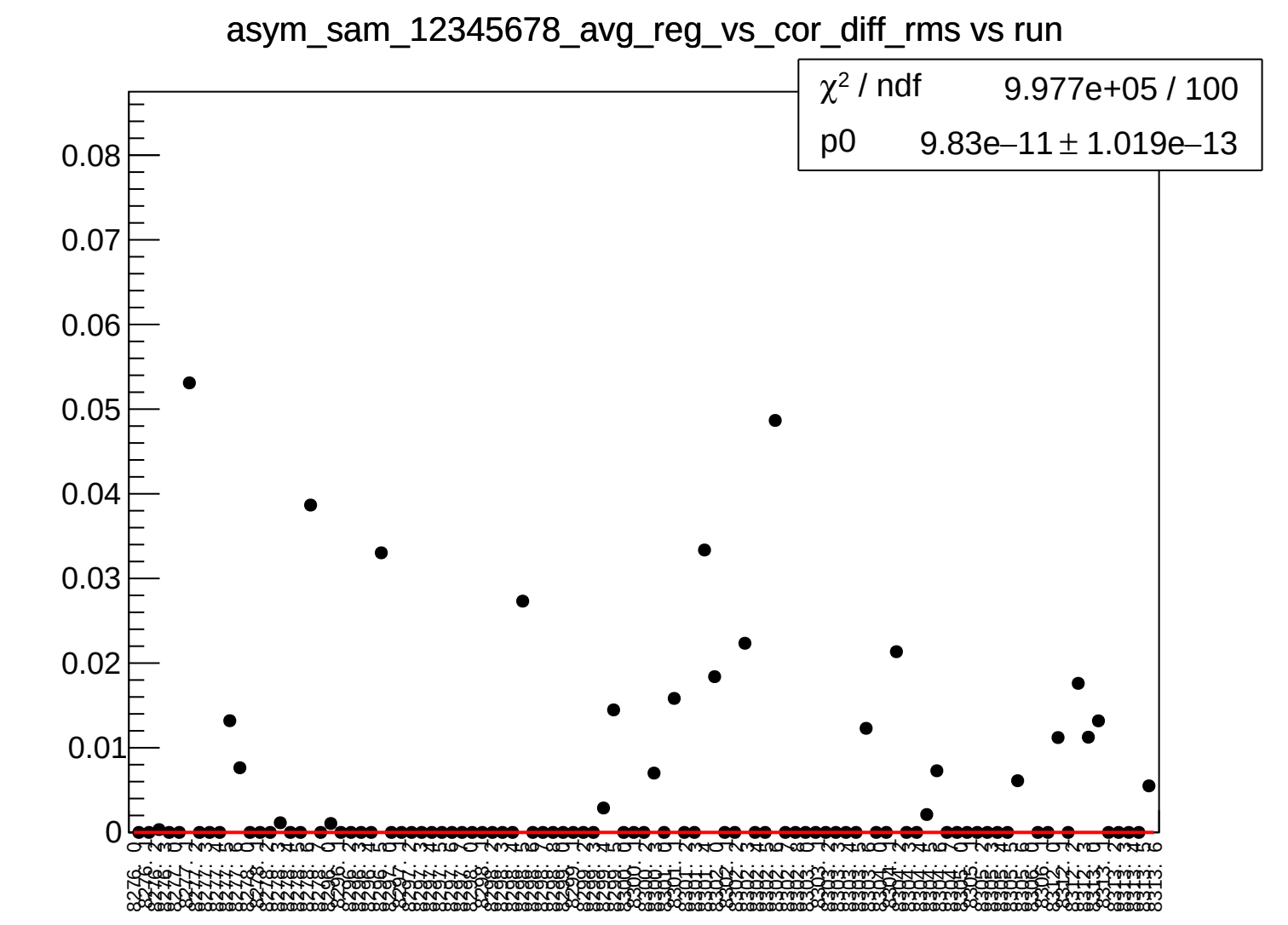

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.198e+04 / 100
p0 1448 ± 1.047
2000
1900
1800
1700
1600
1500
1400
1300

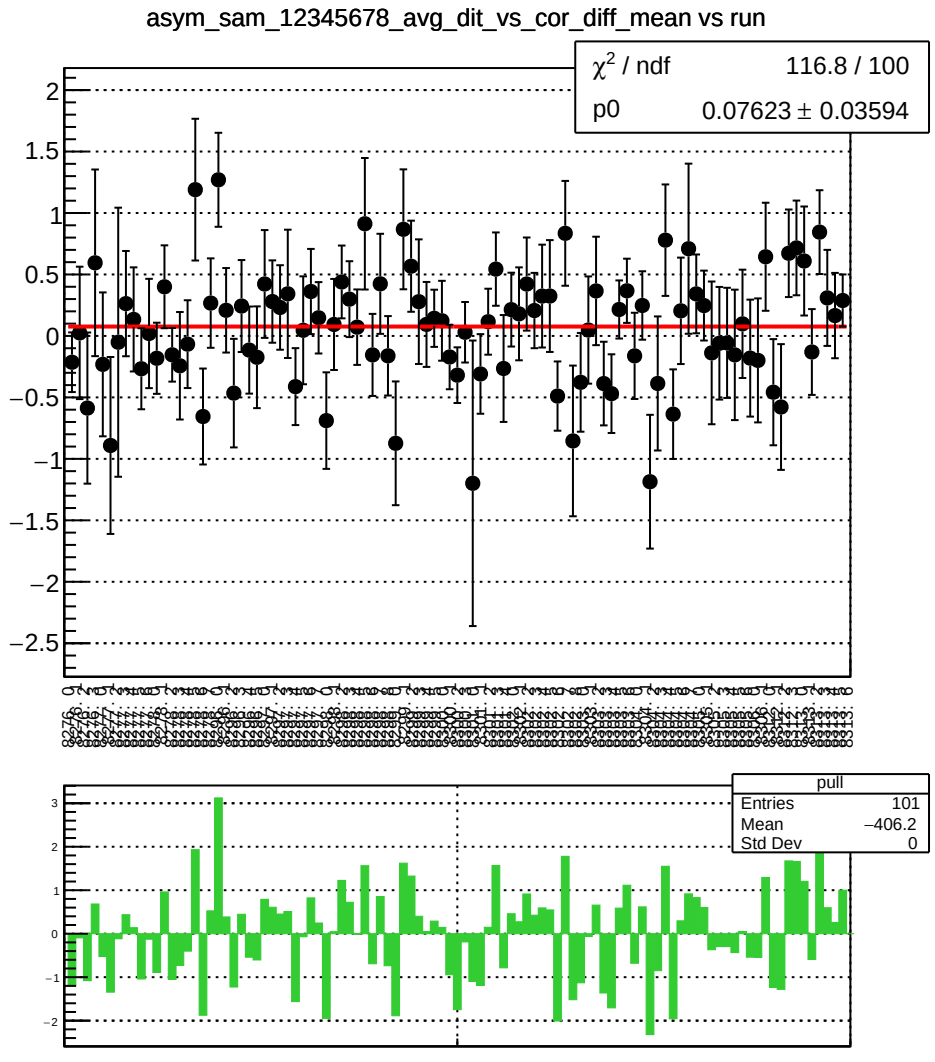

asym_sam_12345678_avg_mean vs run
χ² / ndf 96.79 / 100
p0 1041 ± 1460
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 101
Mean −856.5
Std Dev 0
2
1
0
−1
−2
−3

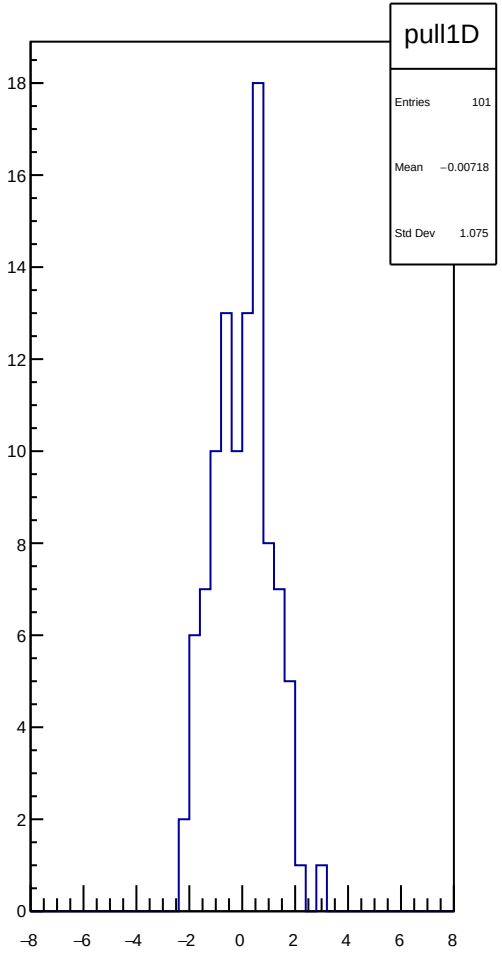

pull1D
Entries 101
Mean 0.0005731
Std Dev 0.9789
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

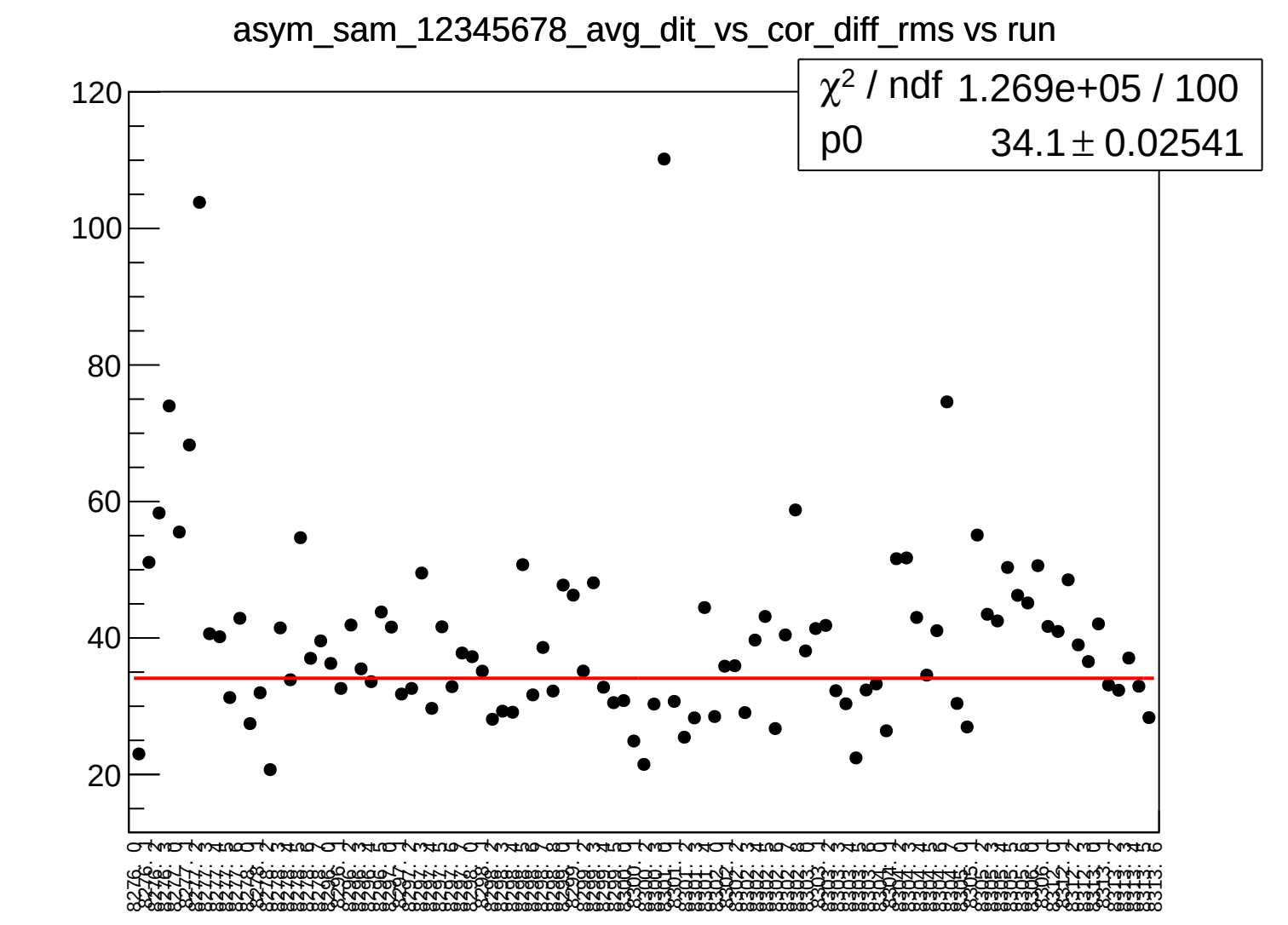

asym_sam_12345678_avg_rms vs run
χ² / ndf 1.196e+04 / 100
p0 1429 ± 1.033
1900
1800
1700
1600
1500
1400
1300
1200

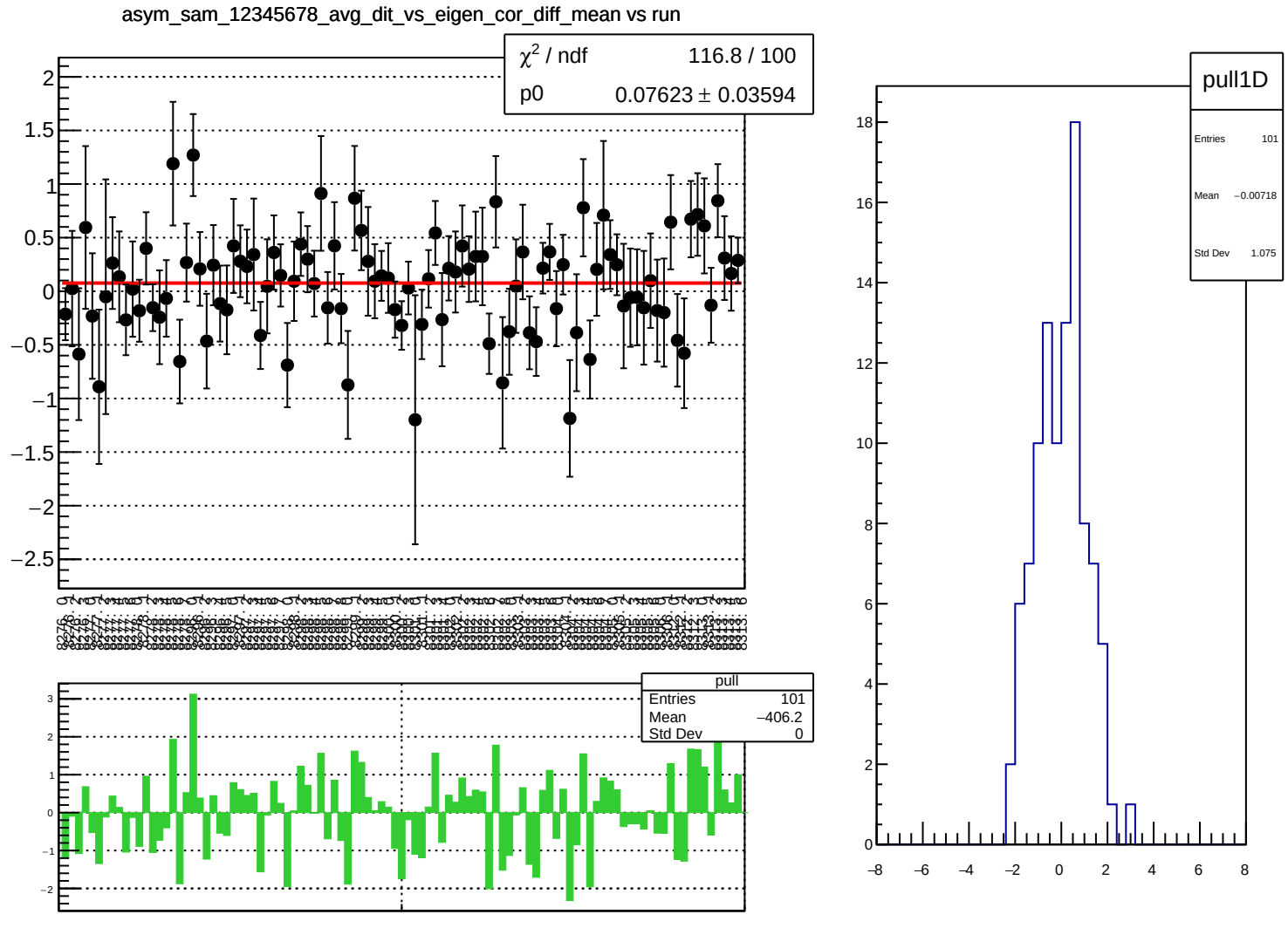

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 140.3 / 100
p0 −6.937e−15 ± 1.442e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 101
Mean 25.68
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 101
Mean −0.03898
Std Dev 1.178
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

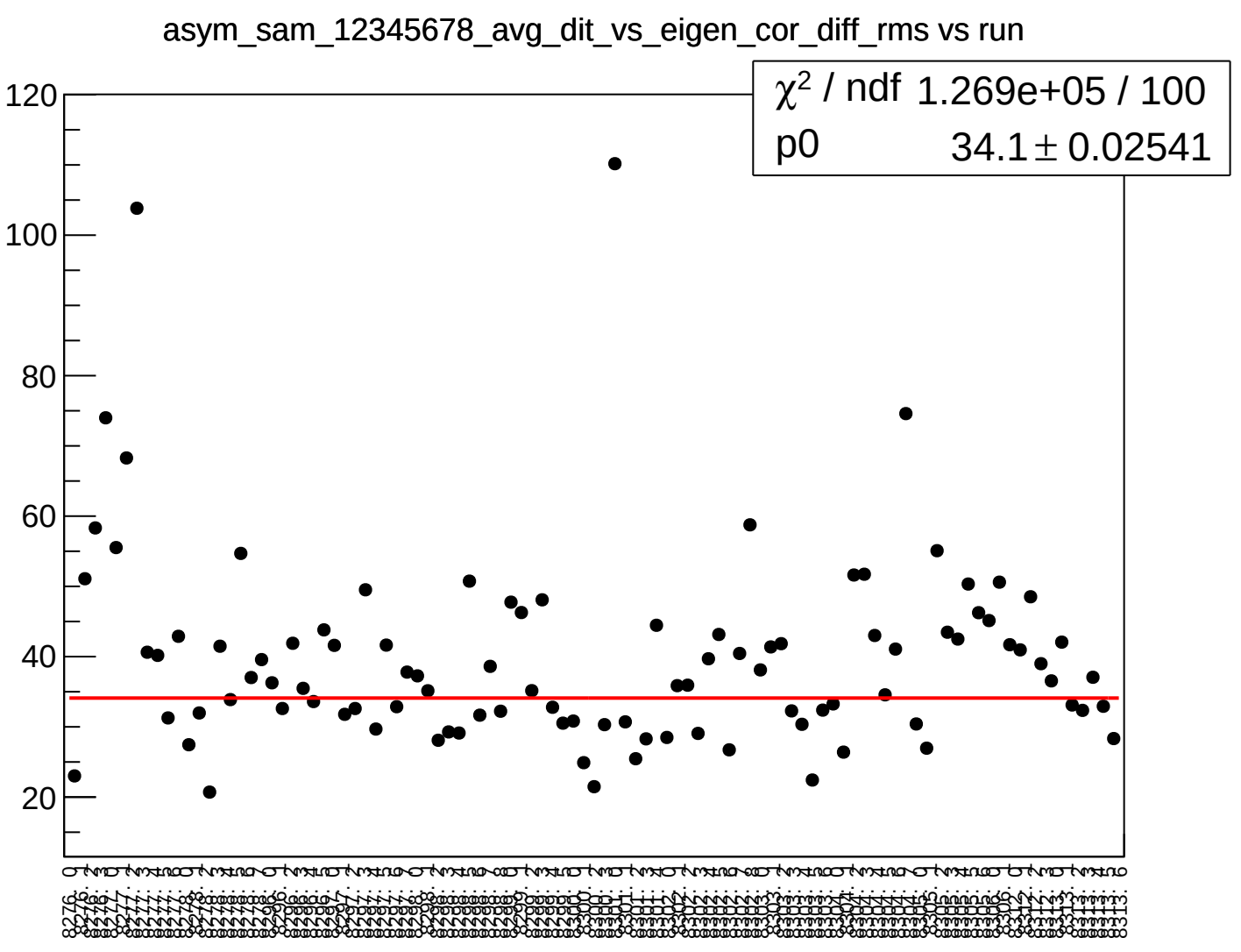

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.977e+05 / 100
p0 9.83e−11 ± 1.019e−13
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

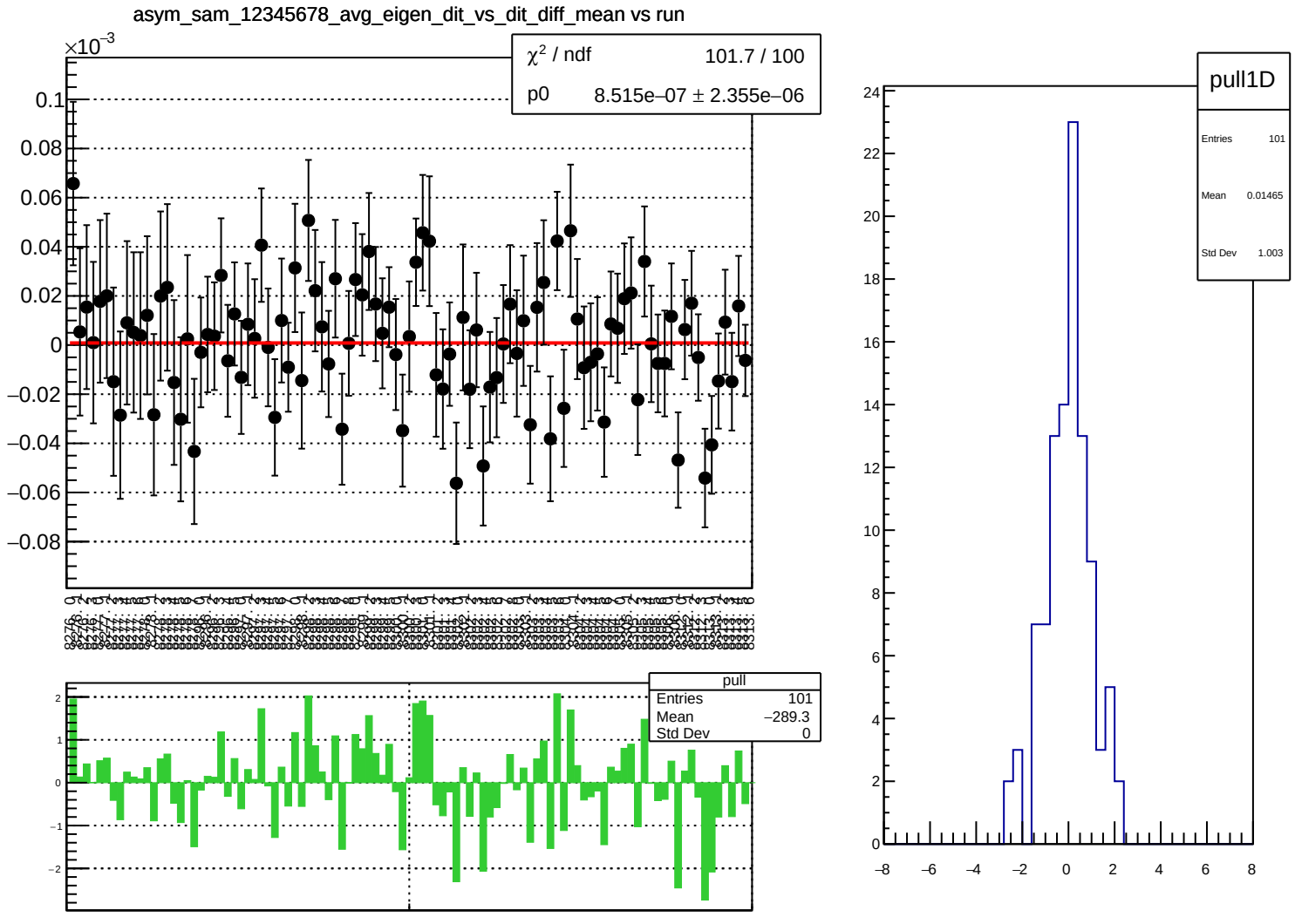

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 116.8 / 100
p0 0.07623 ± 0.03594
pull
Entries 101
Mean −406.2
Std Dev 0

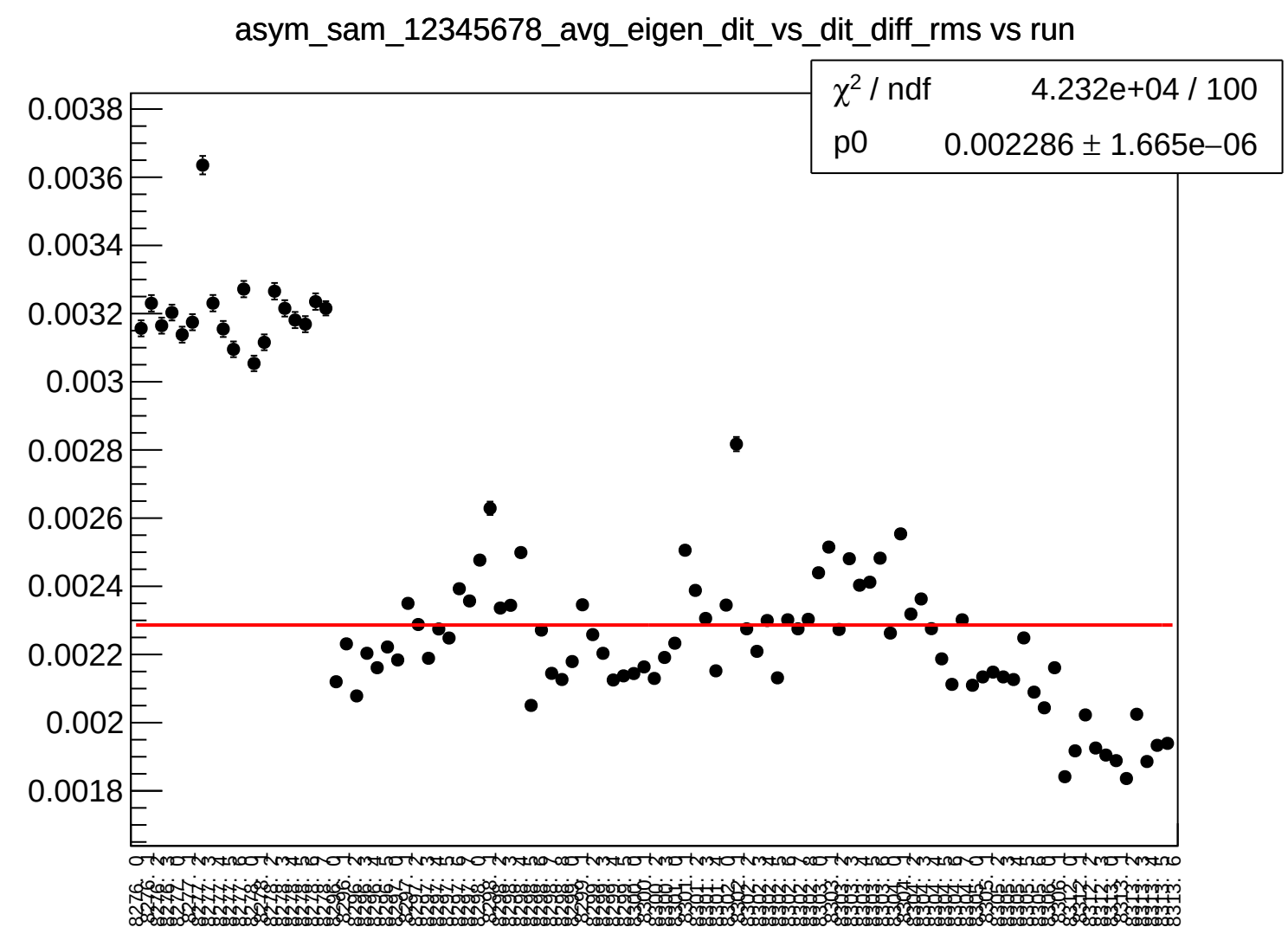

pull1D
Entries 101
Mean −0.00718
Std Dev 1.075

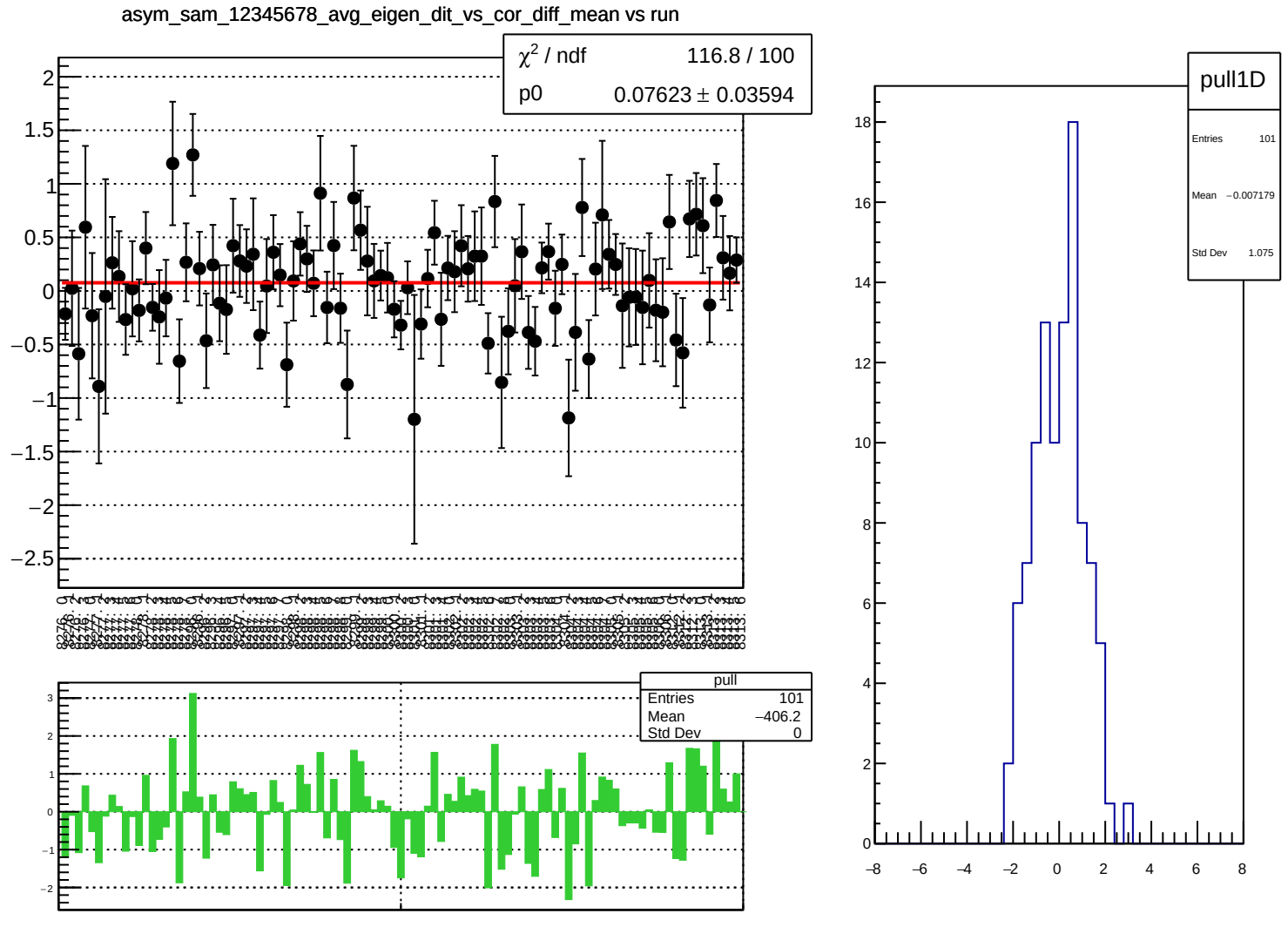

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.269e+05 / 100
p0 34.1 ± 0.02541
120
100
80
60
40
20

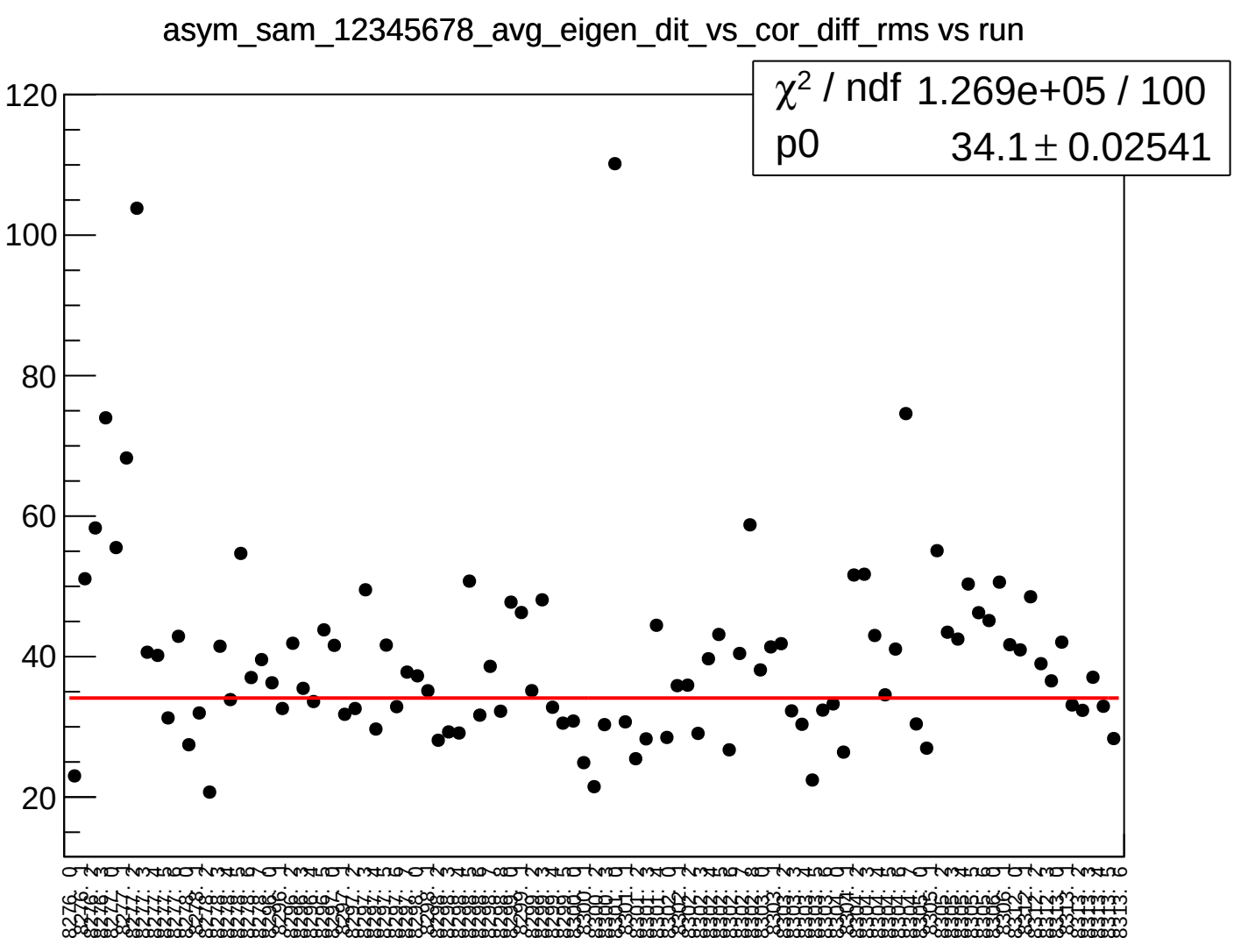

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 116.8 / 100
p0 0.07623 ± 0.03594
pull
Entries 101
Mean −406.2
Std Dev 0
pull1D
Entries 101
Mean −0.00718
Std Dev 1.075

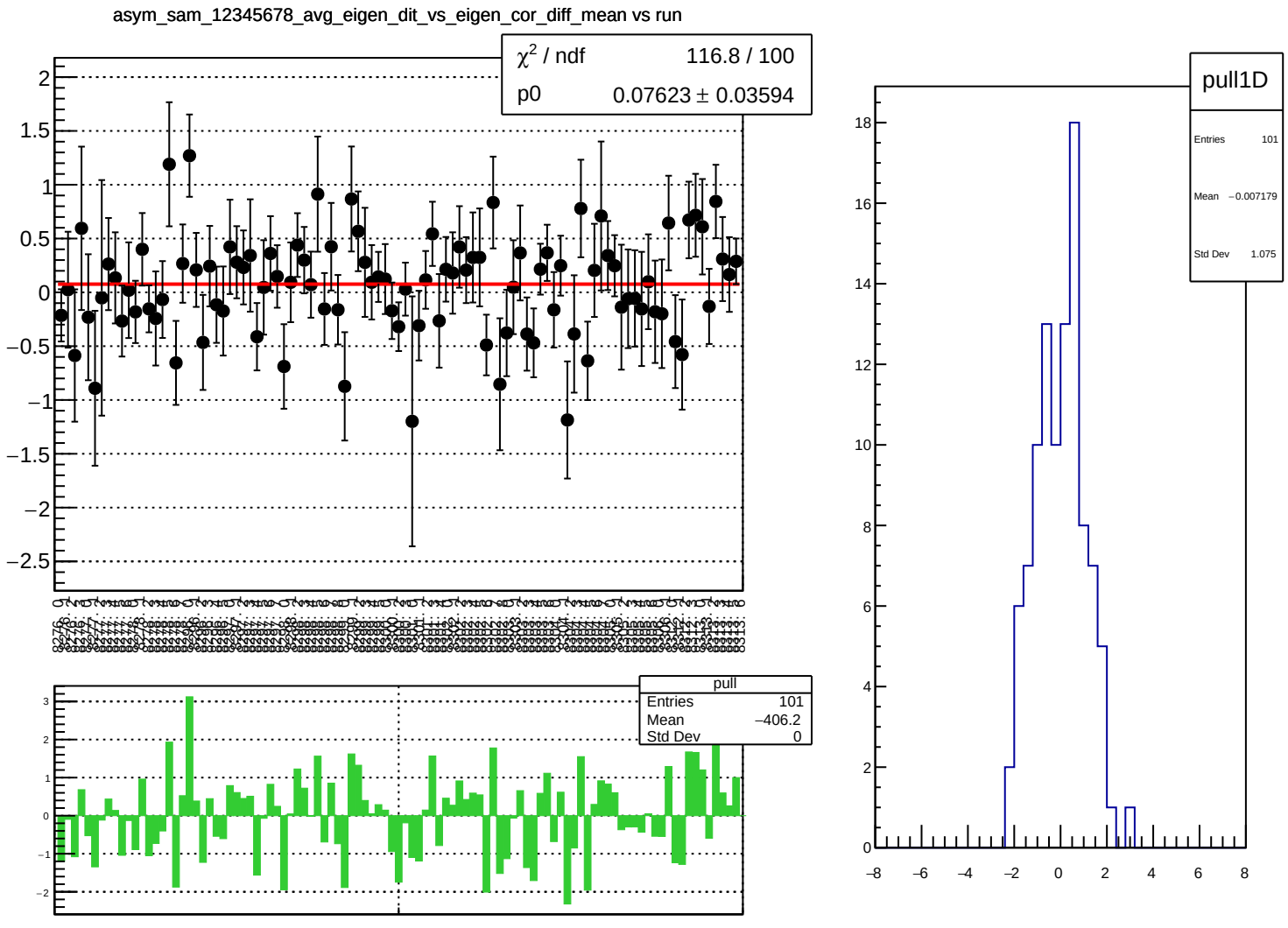

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.269e+05 / 100
p0 34.1 ± 0.02541
120
100
80
60
40
20

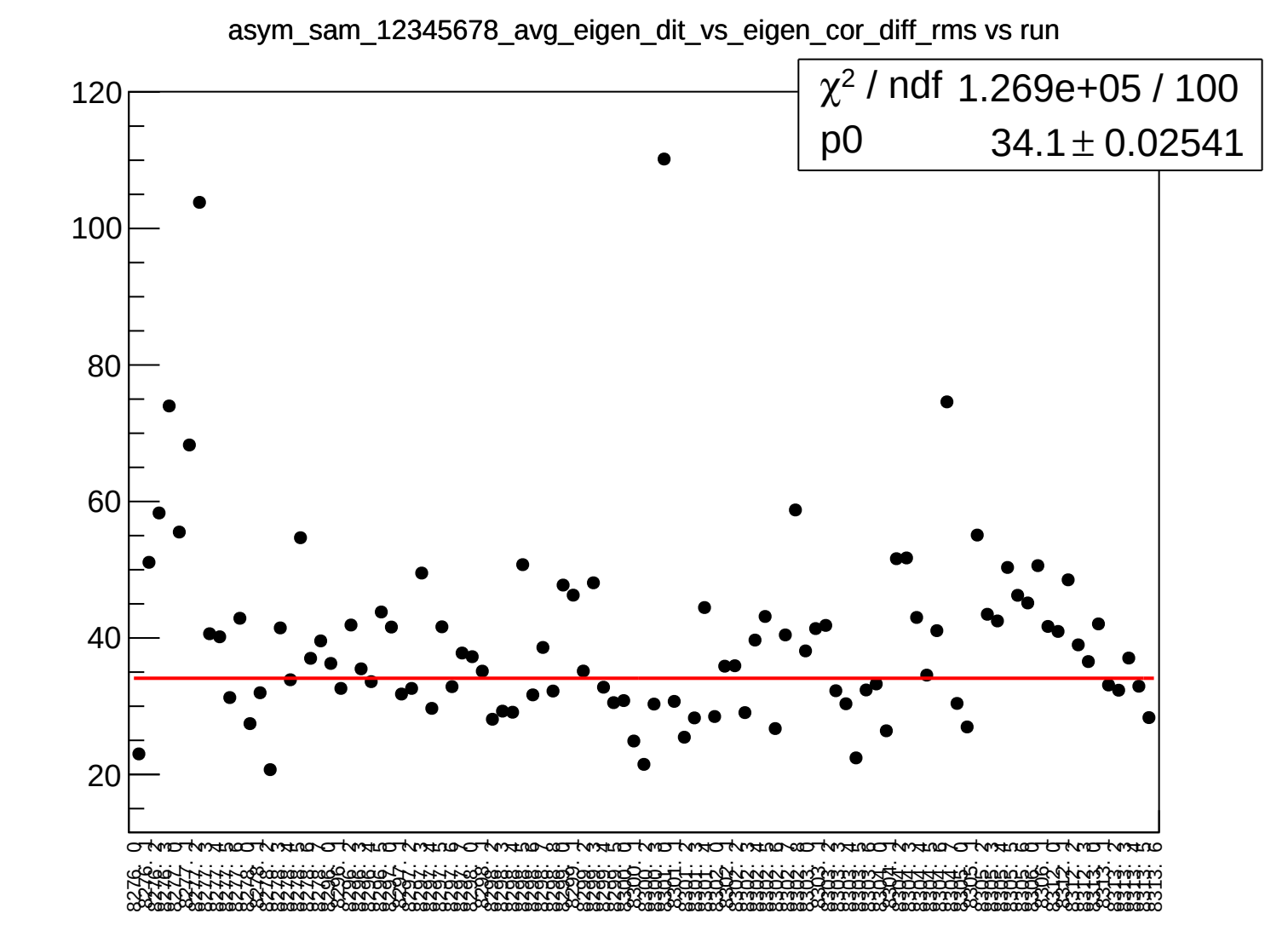

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10−3
χ2 / ndf 101.7 / 100
p0 8.515e−07 ± 2.355e−06
pull
Entries 101
Mean −289.3
Std Dev 0
pull1D
Entries 101
Mean 0.01465
Std Dev 1.003

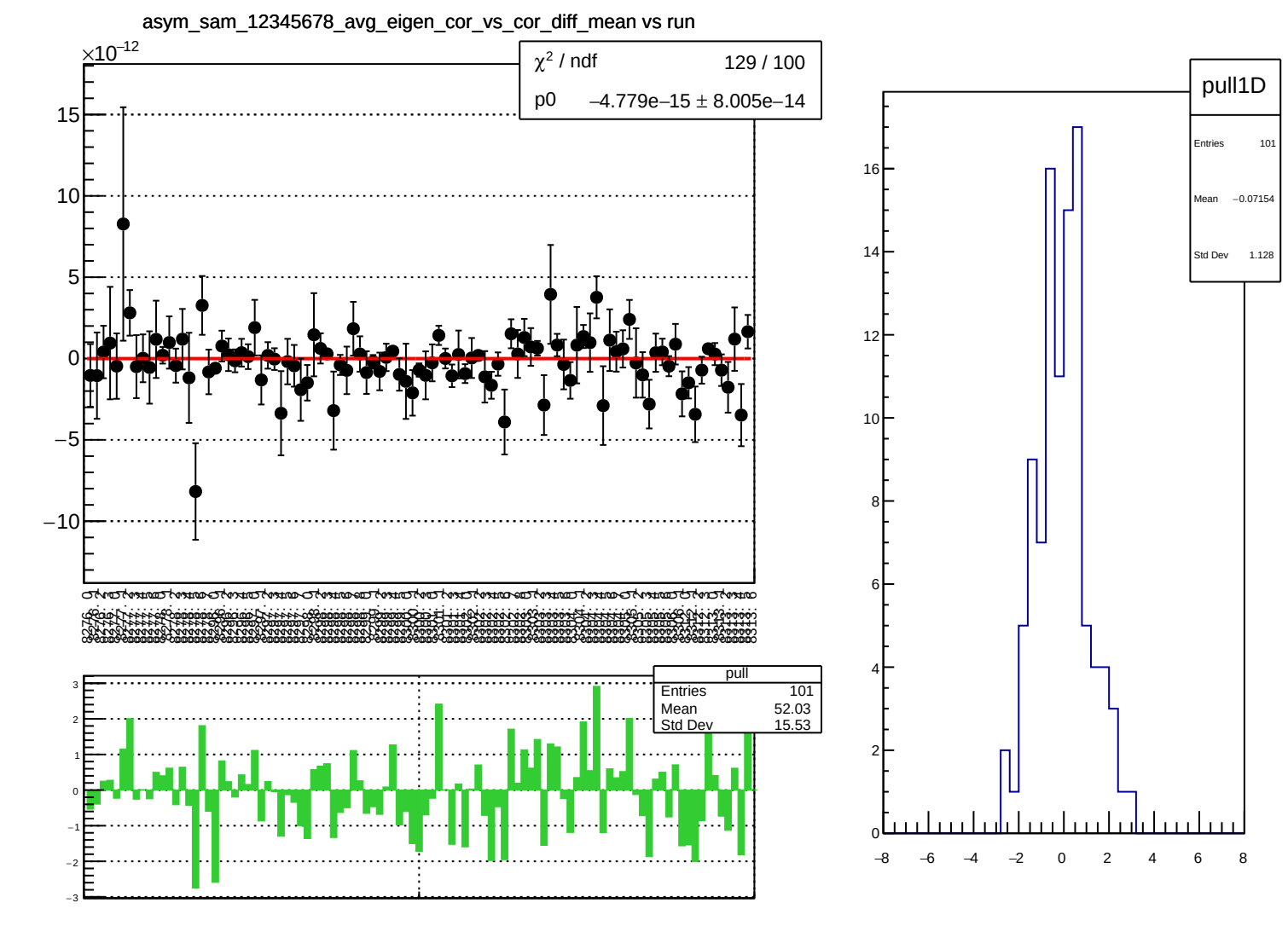

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.232e+04 / 100
p0 0.002286 ± 1.665e−06
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

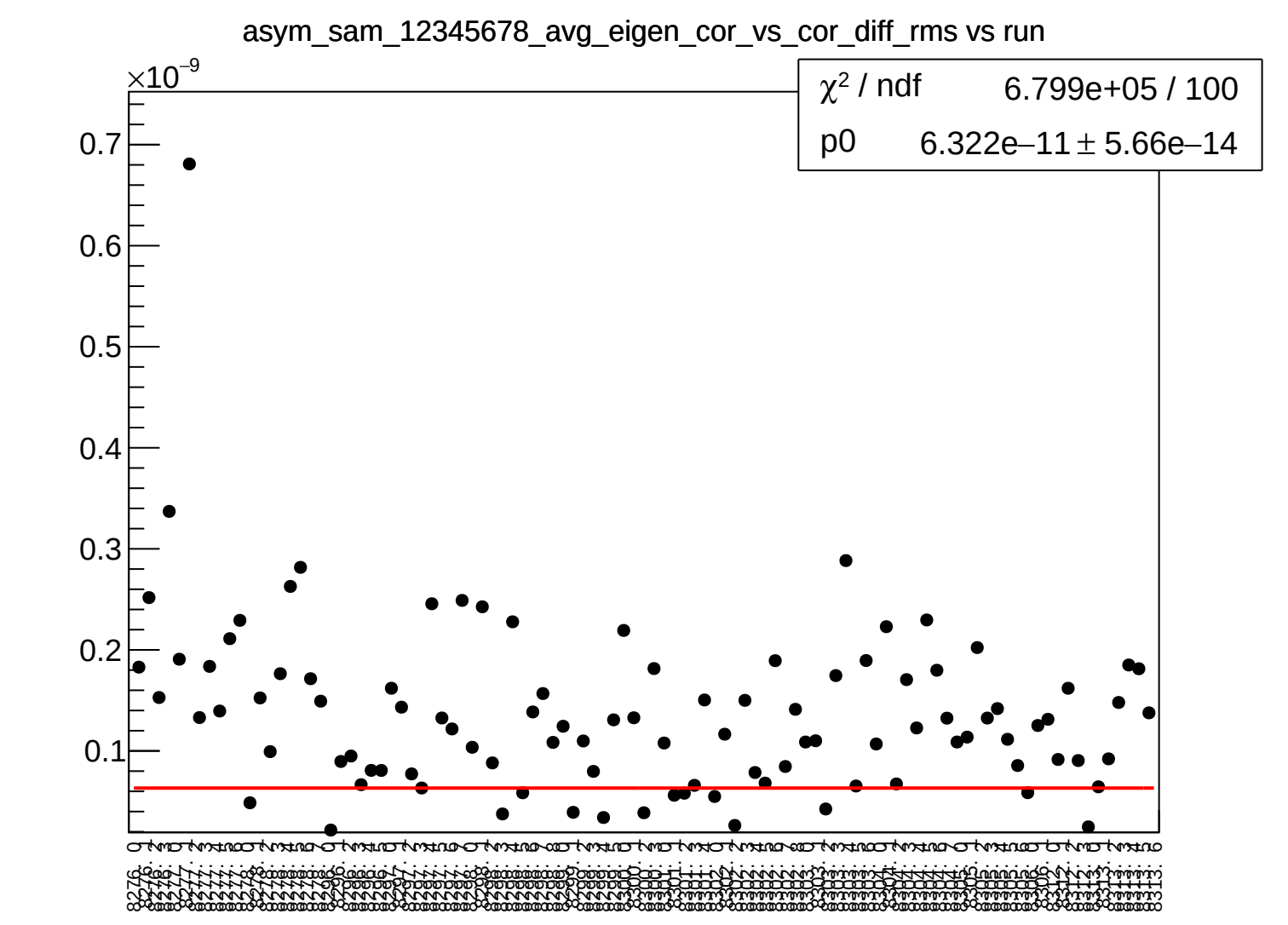

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 116.8 / 100
p0 0.07623 ± 0.03594
pull
Entries 101
Mean −406.2
Std Dev 0
pull1D
Entries 101
Mean −0.007179
Std Dev 1.075

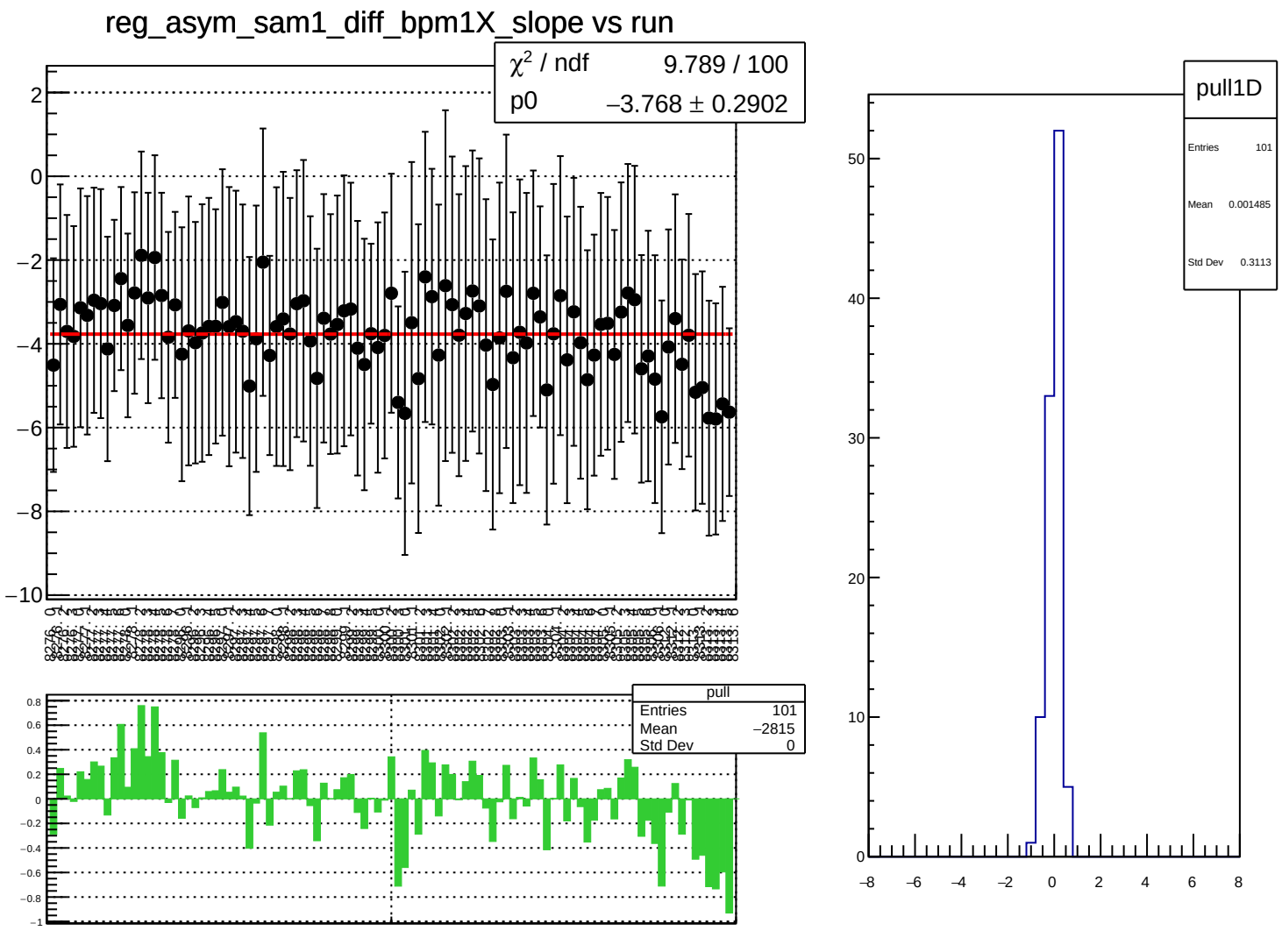

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.269e+05 / 100
p0 34.1 ± 0.02541
120
100
80
60
40
20

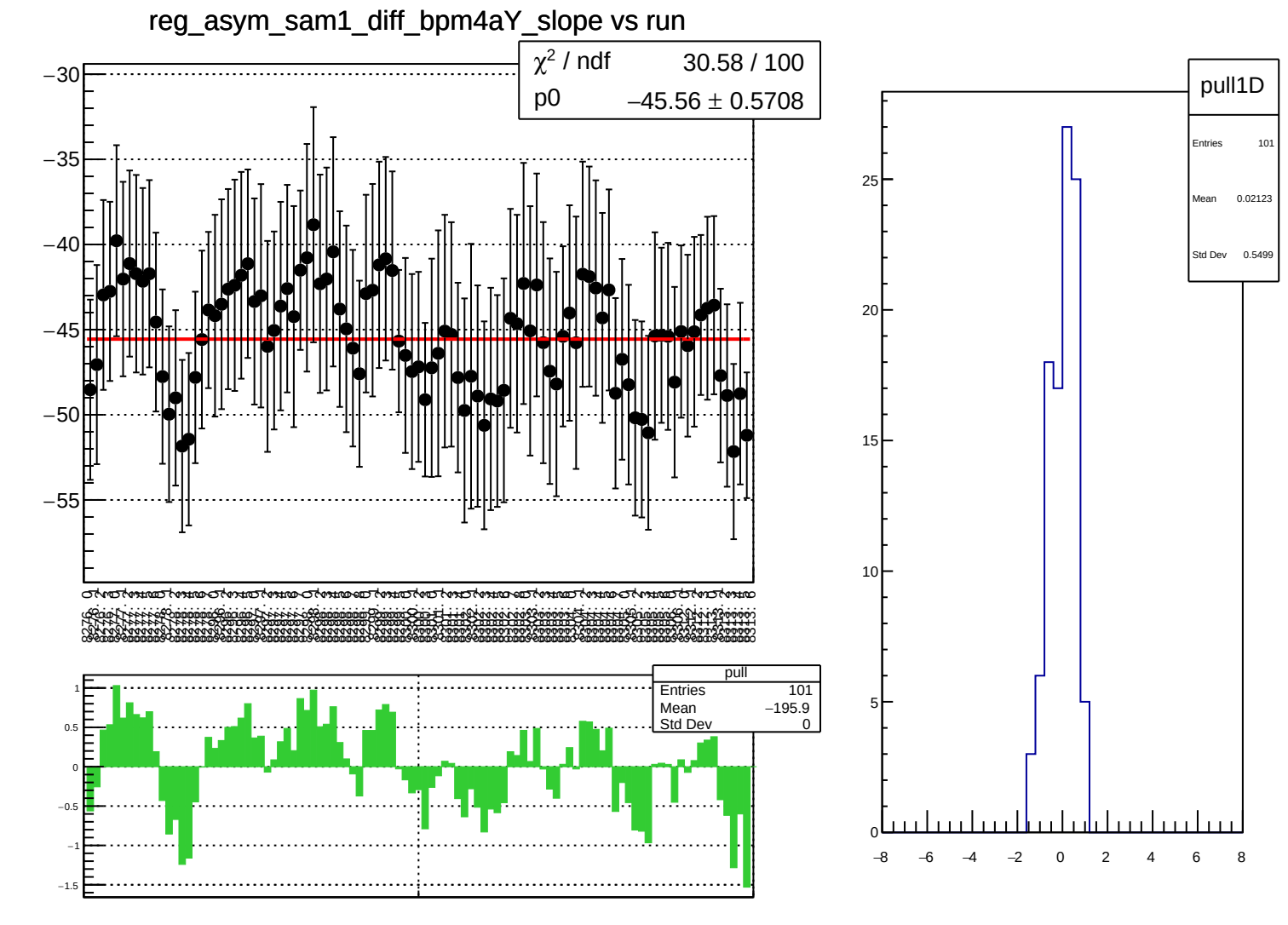

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 116.8 / 100
p0 0.07623 ± 0.03594
pull
Entries 101
Mean −406.2
Std Dev 0
pull1D
Entries 101
Mean −0.007179
Std Dev 1.075

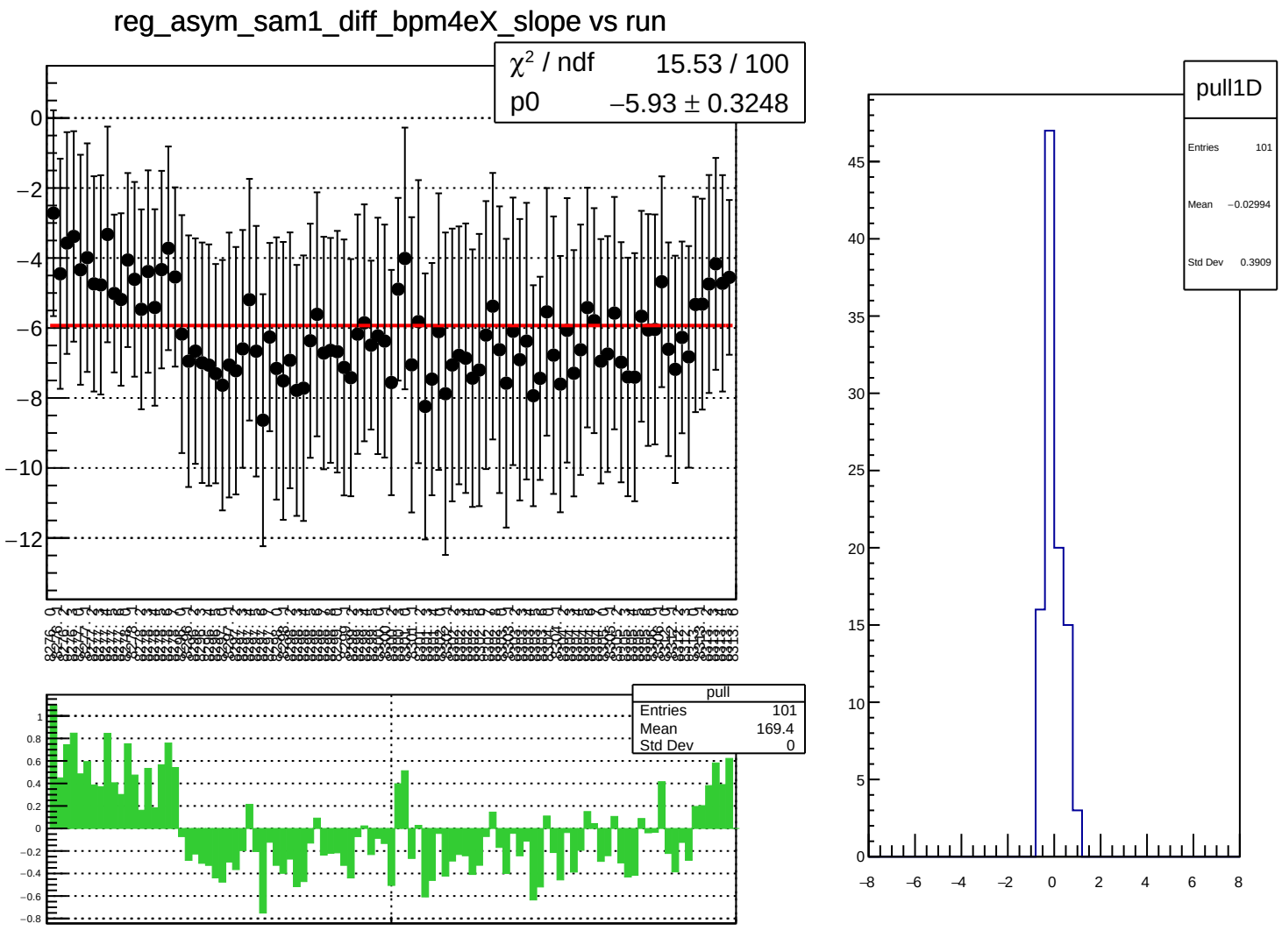

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.269e+05 / 100
p0 34.1 ± 0.02541
120
100
80
60
40
20

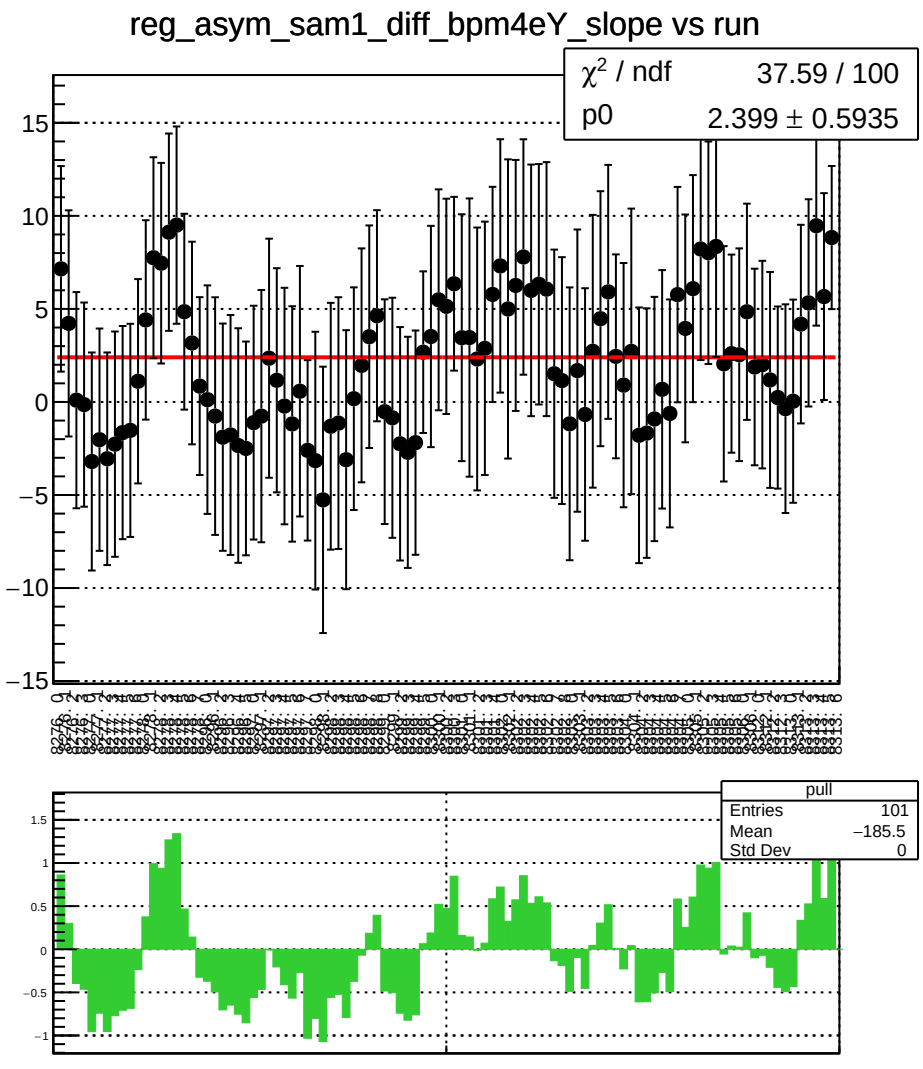

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 129 / 100
p0 −4.779e−15 ± 8.005e−14
pull
Entries 101
Mean 52.03
Std Dev 15.53
pull1D
Entries 101
Mean −0.07154
Std Dev 1.128

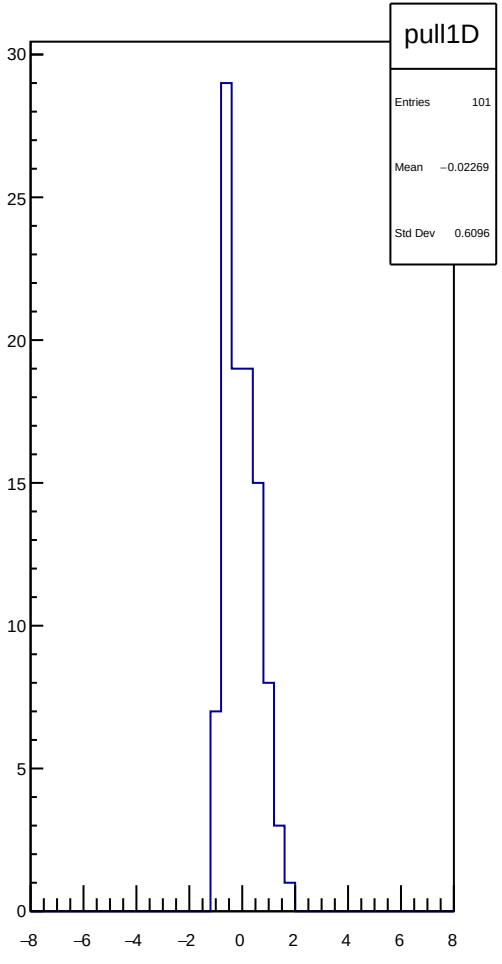

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.799e+05 / 100
p0 6.322e−11 ± 5.66e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

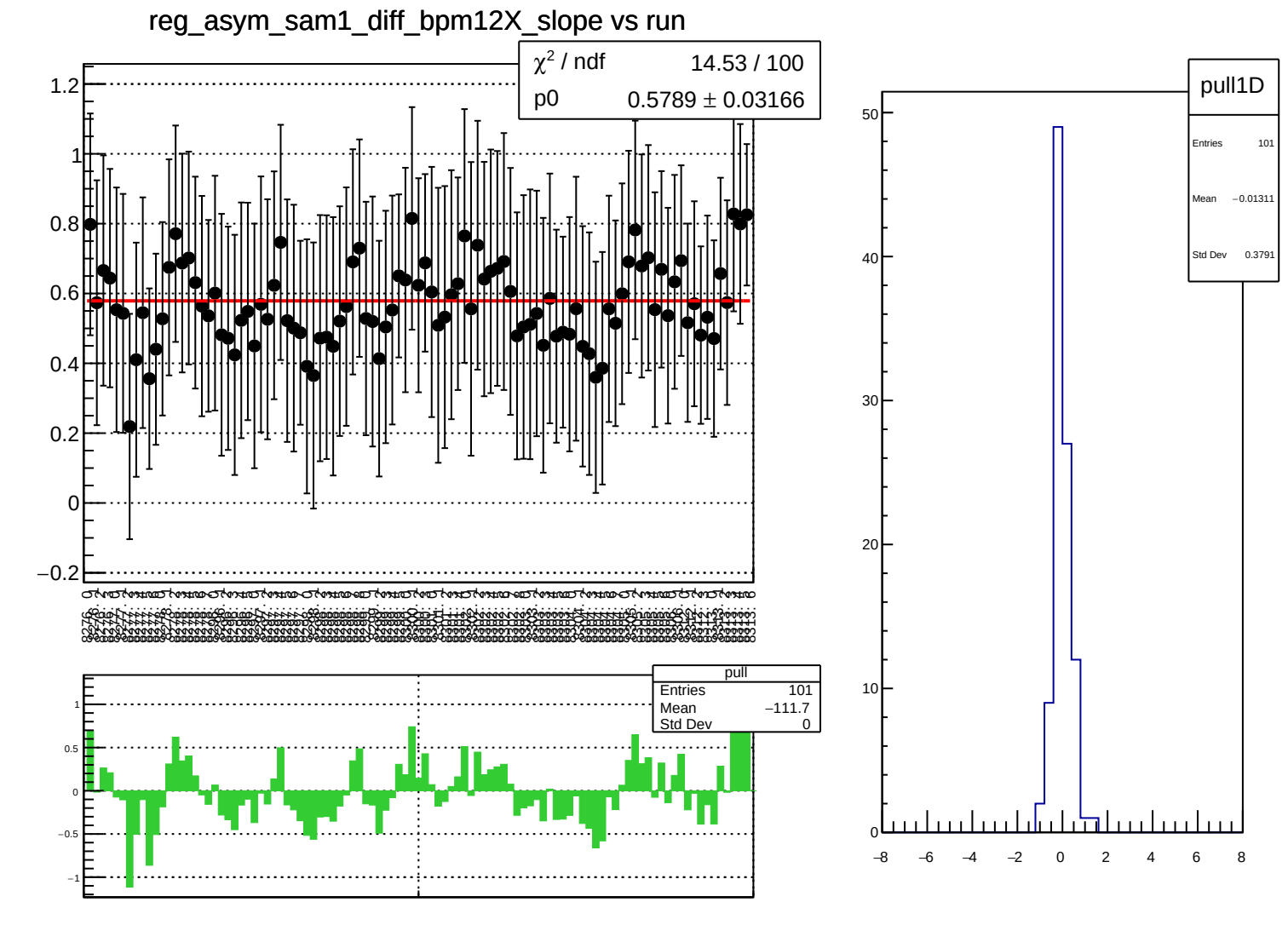

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 9.789 / 100
p0 −3.768 ± 0.2902
pull
Entries 101
Mean −2815
Std Dev 0
pull1D
Entries 101
Mean 0.001485
Std Dev 0.3113

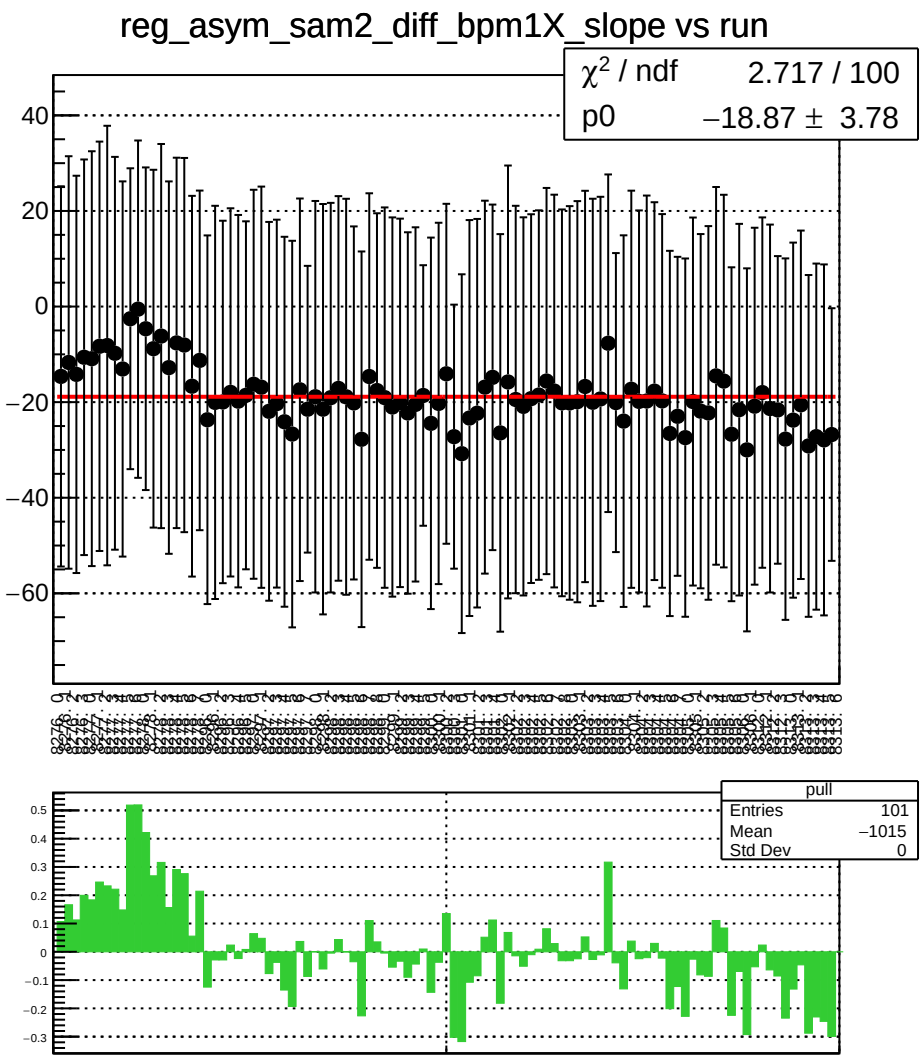

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 30.58 / 100
p0 −45.56 ± 0.5708
pull
Entries 101
Mean −195.9
Std Dev 0
pull1D
Entries 101
Mean 0.02123
Std Dev 0.5499

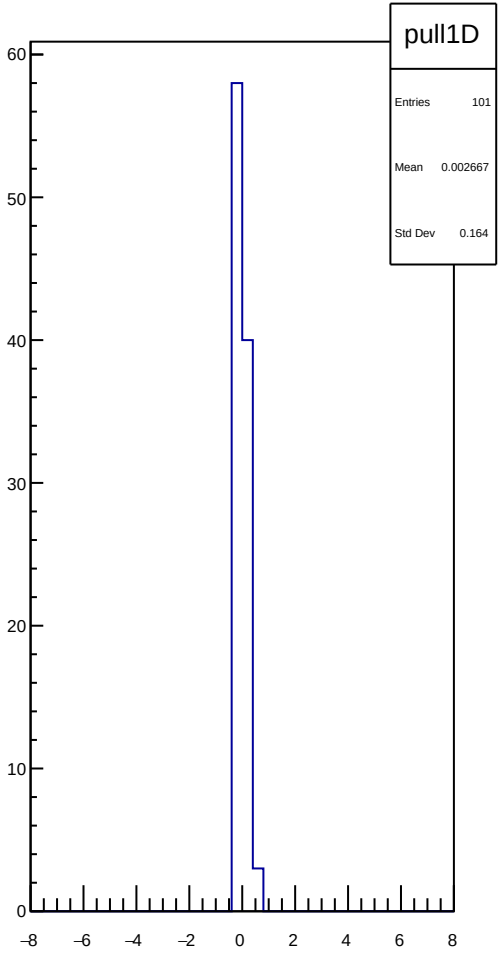

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 15.53 / 100
p0 −5.93 ± 0.3248
pull
Entries 101
Mean 169.4
Std Dev 0
pull1D
Entries 101
Mean −0.02994
Std Dev 0.3909

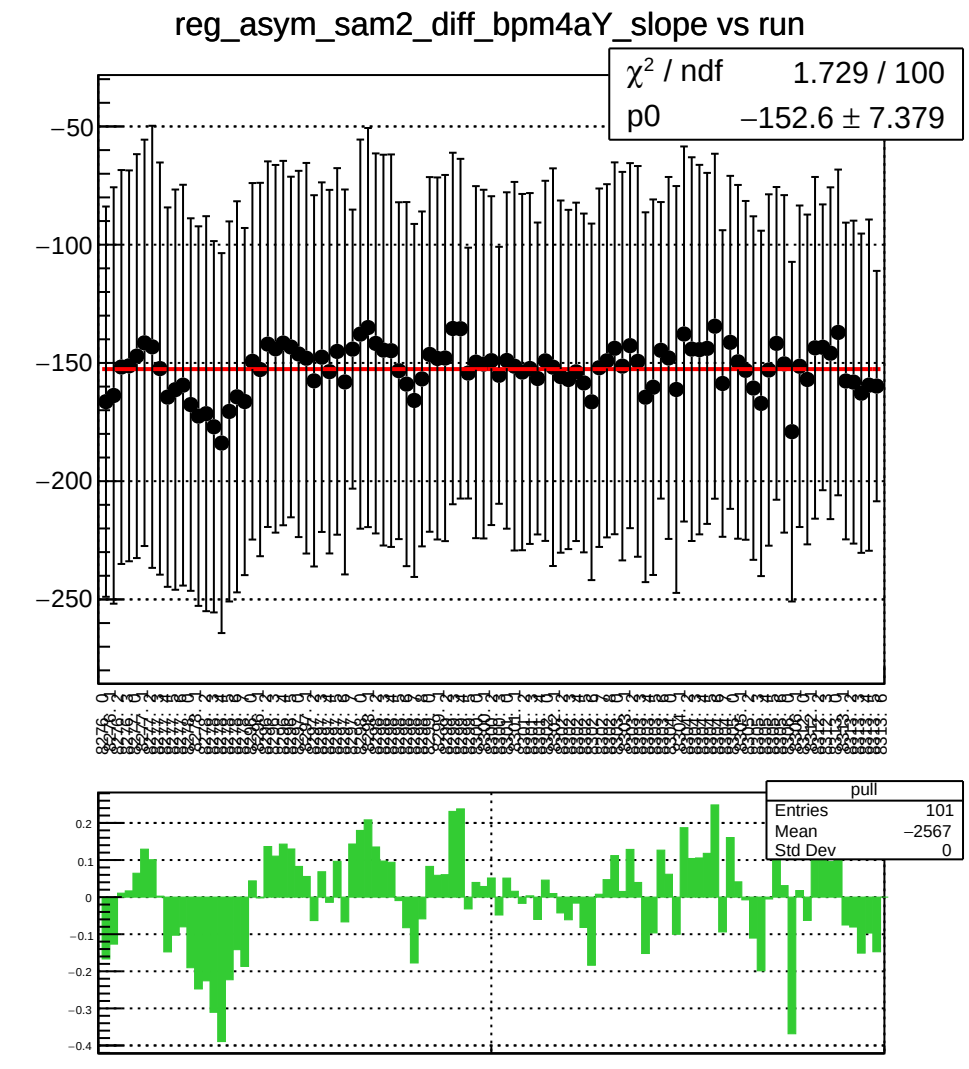

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 37.59 / 100
p0 2.399 ± 0.5935
pull
Entries 101
Mean −185.5
Std Dev 0

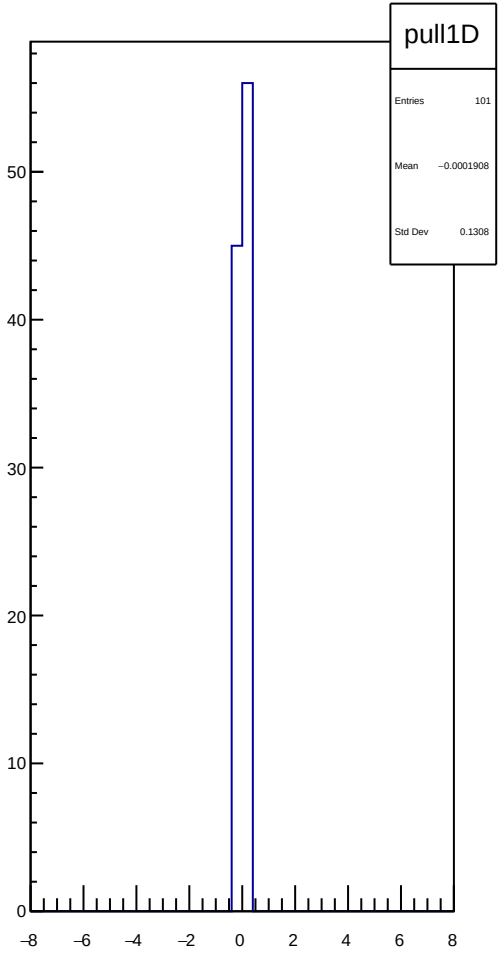

pull1D
Entries 101
Mean −0.02269
Std Dev 0.6096

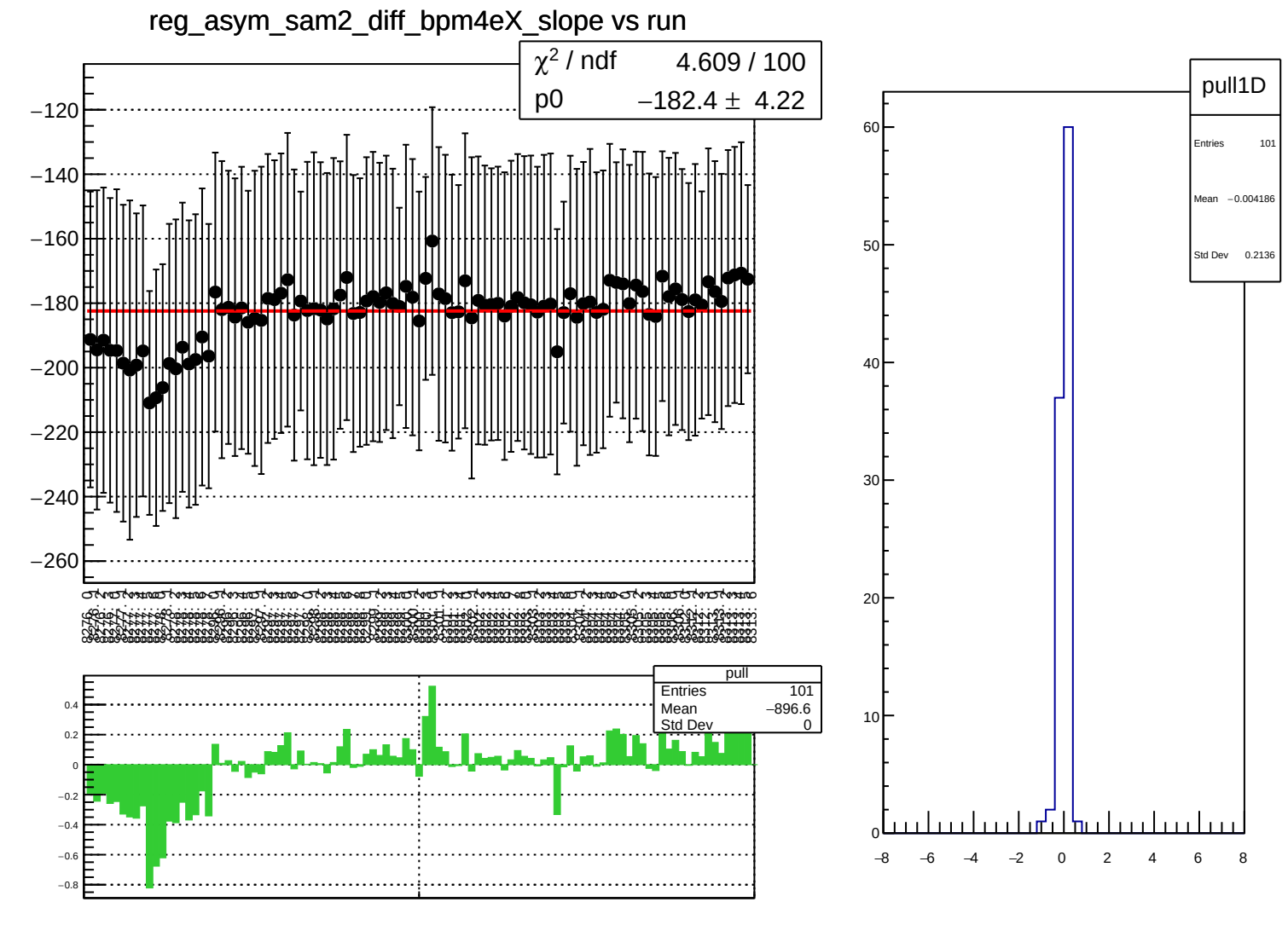

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 14.53 / 100
p0 0.5789 ± 0.03166
pull
Entries 101
Mean −111.7
Std Dev 0
pull1D
Entries 101
Mean −0.01311
Std Dev 0.3791

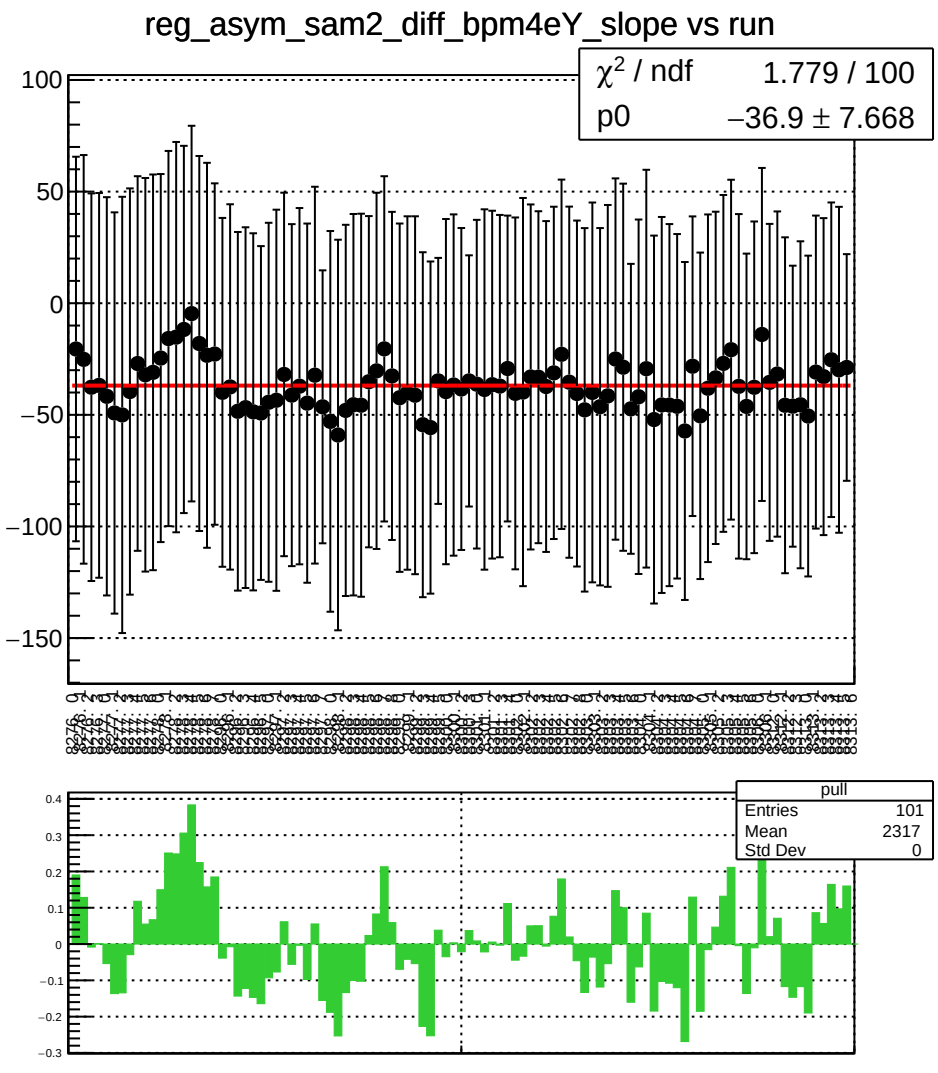

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 2.717 / 100
p0 −18.87 ± 3.78
pull
Entries 101
Mean −1015
Std Dev 0

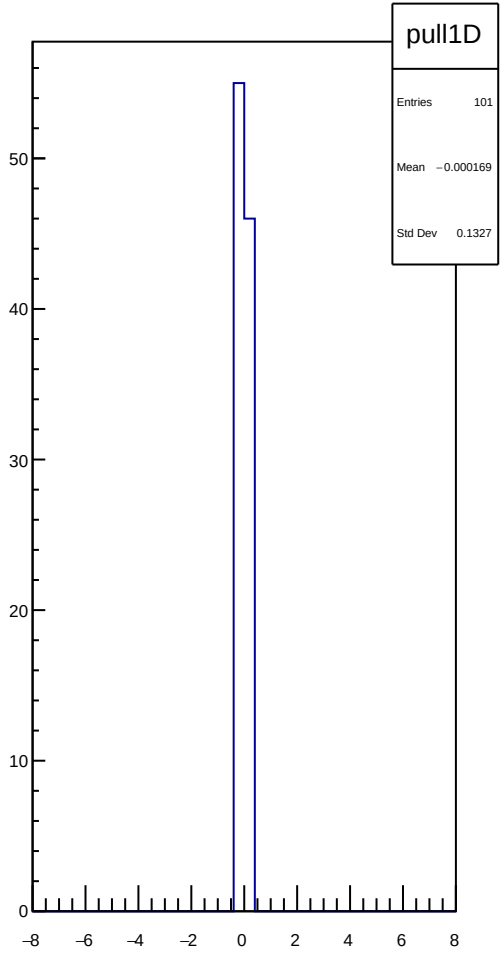

pull1D
Entries 101
Mean 0.002667
Std Dev 0.164

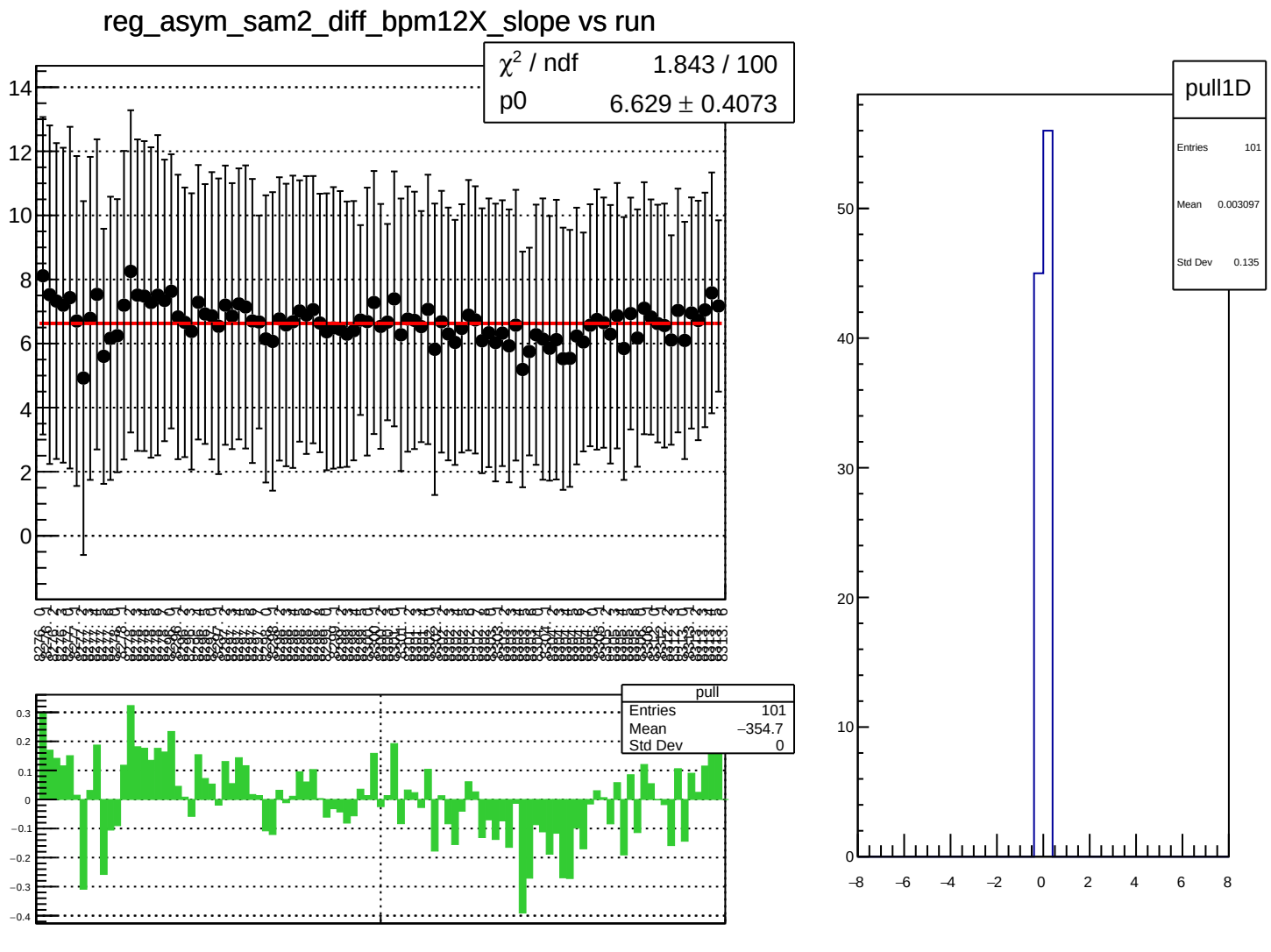

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 1.729 / 100
p0 −152.6 ± 7.379
−50
−100
−150
−200
−250
pull
Entries 101
Mean −2567
Std Dev 0
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

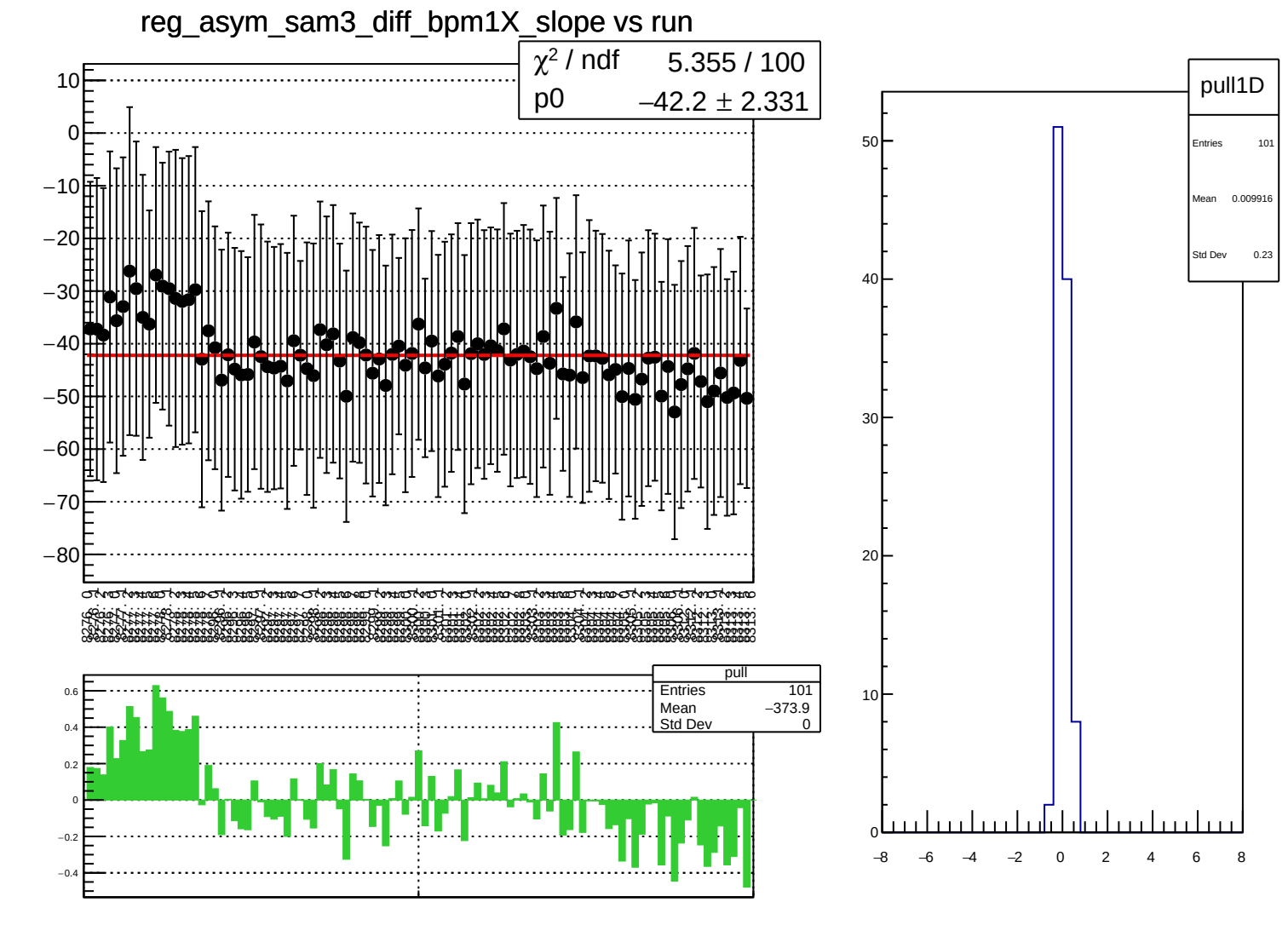

pull1D
Entries 101
Mean −0.0001908
Std Dev 0.1308
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

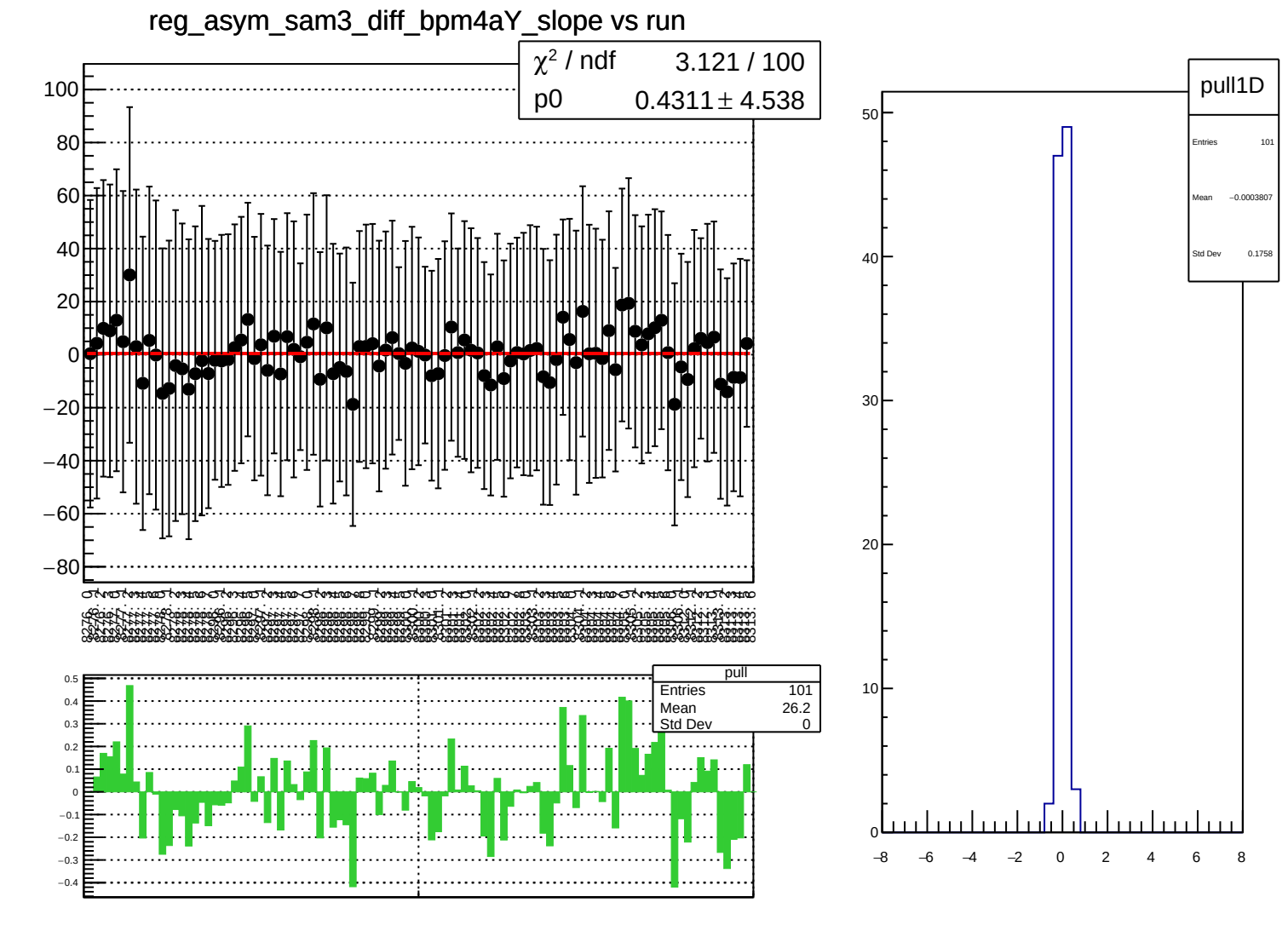

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 4.609 / 100
p0 −182.4 ± 4.22
−120
−140
−160
−180
−200
−220
−240
−260
pull
Entries 101
Mean −896.6
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 101
Mean −0.004186
Std Dev 0.2136
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

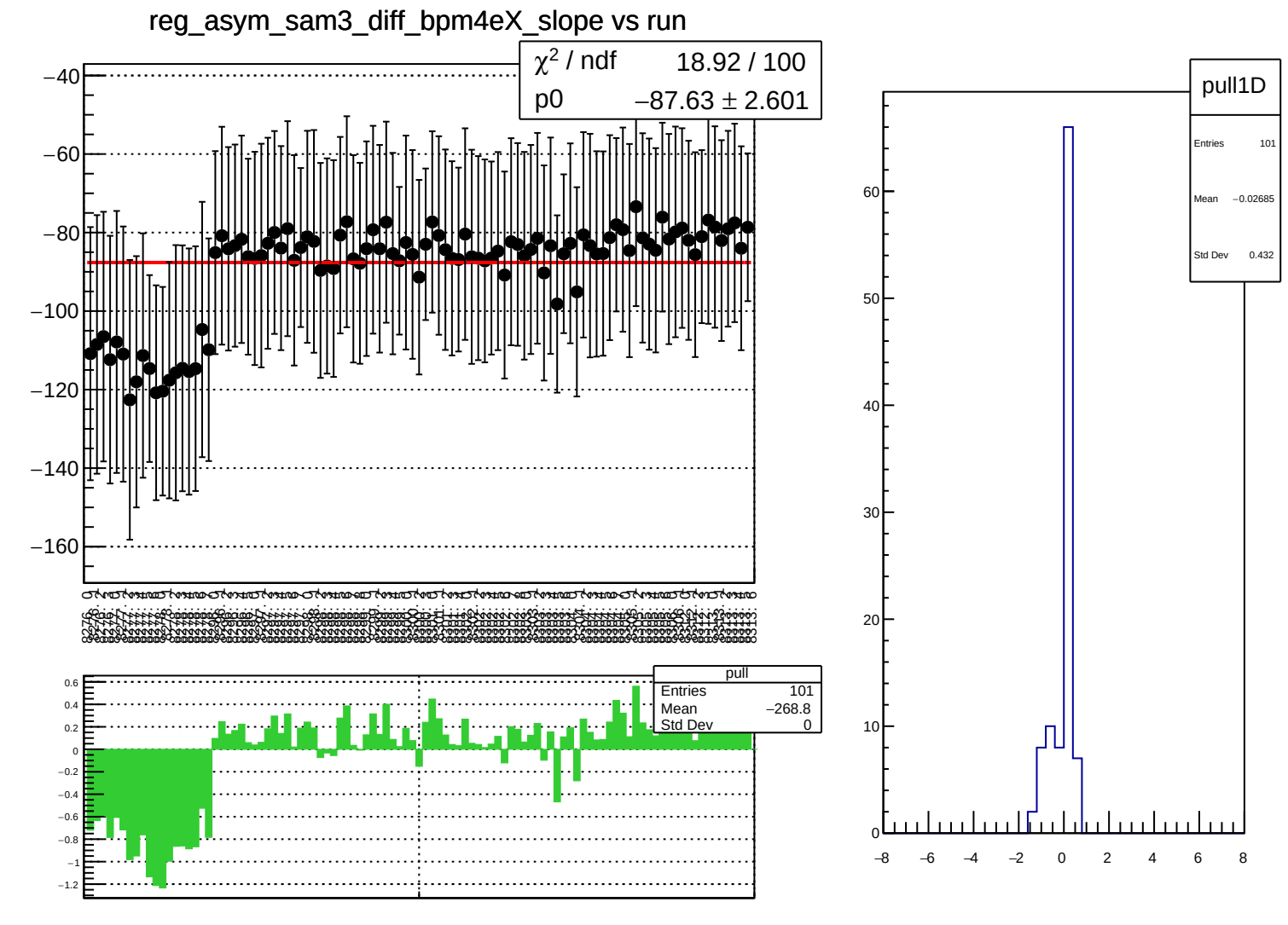

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 1.779 / 100
p0 −36.9 ± 7.668
100
50
0
−50
−100
−150
pull
Entries 101
Mean 2317
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

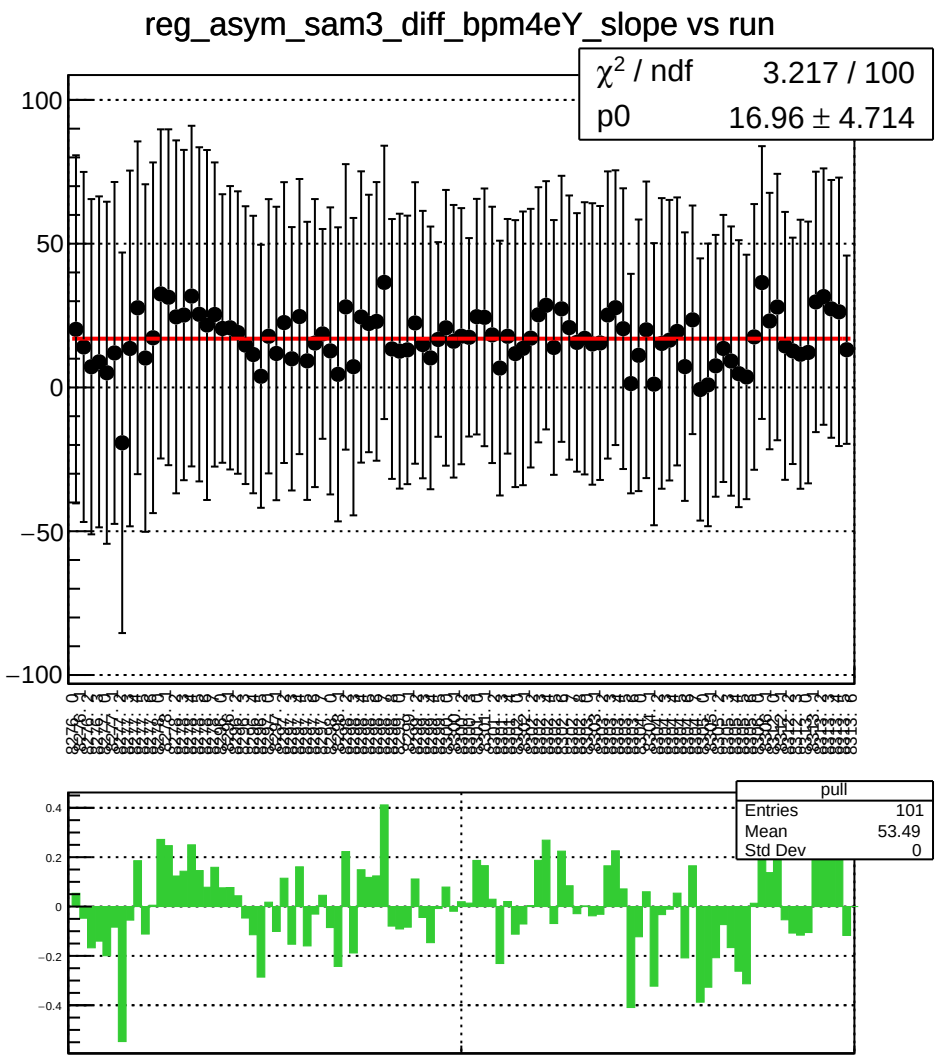

pull1D
Entries 101
Mean −0.000169
Std Dev 0.1327
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

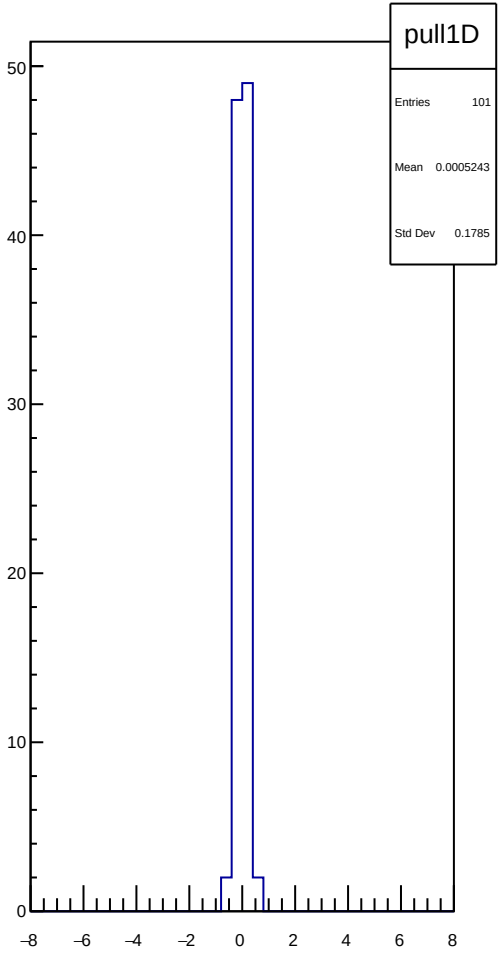

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 1.843 / 100
p0 6.629 ± 0.4073
pull
Entries 101
Mean −354.7
Std Dev 0
pull1D
Entries 101
Mean 0.003097
Std Dev 0.135

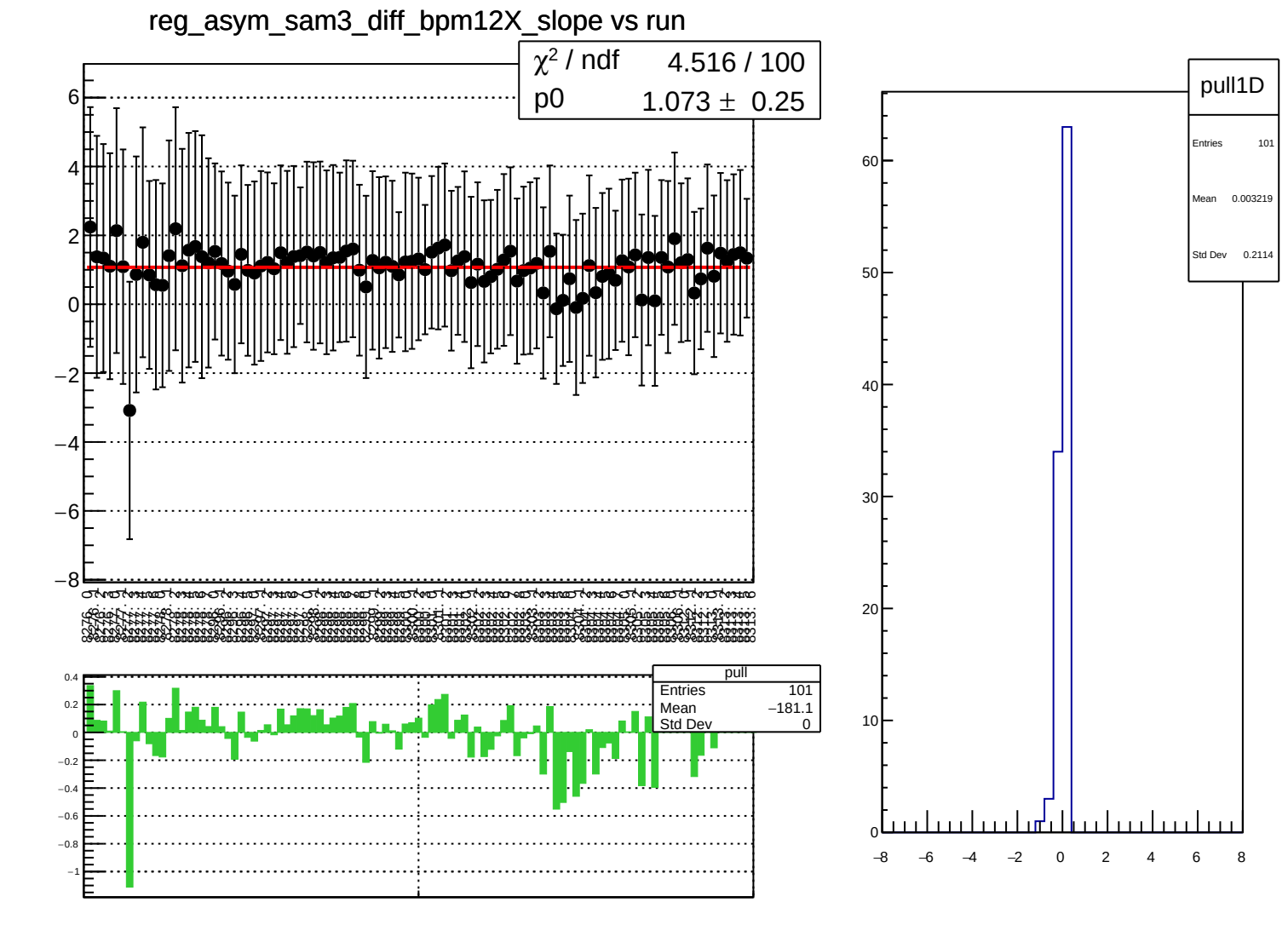

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 5.355 / 100
p0 –42.2 ± 2.331
pull
Entries 101
Mean –373.9
Std Dev 0
pull1D
Entries 101
Mean 0.009916
Std Dev 0.23

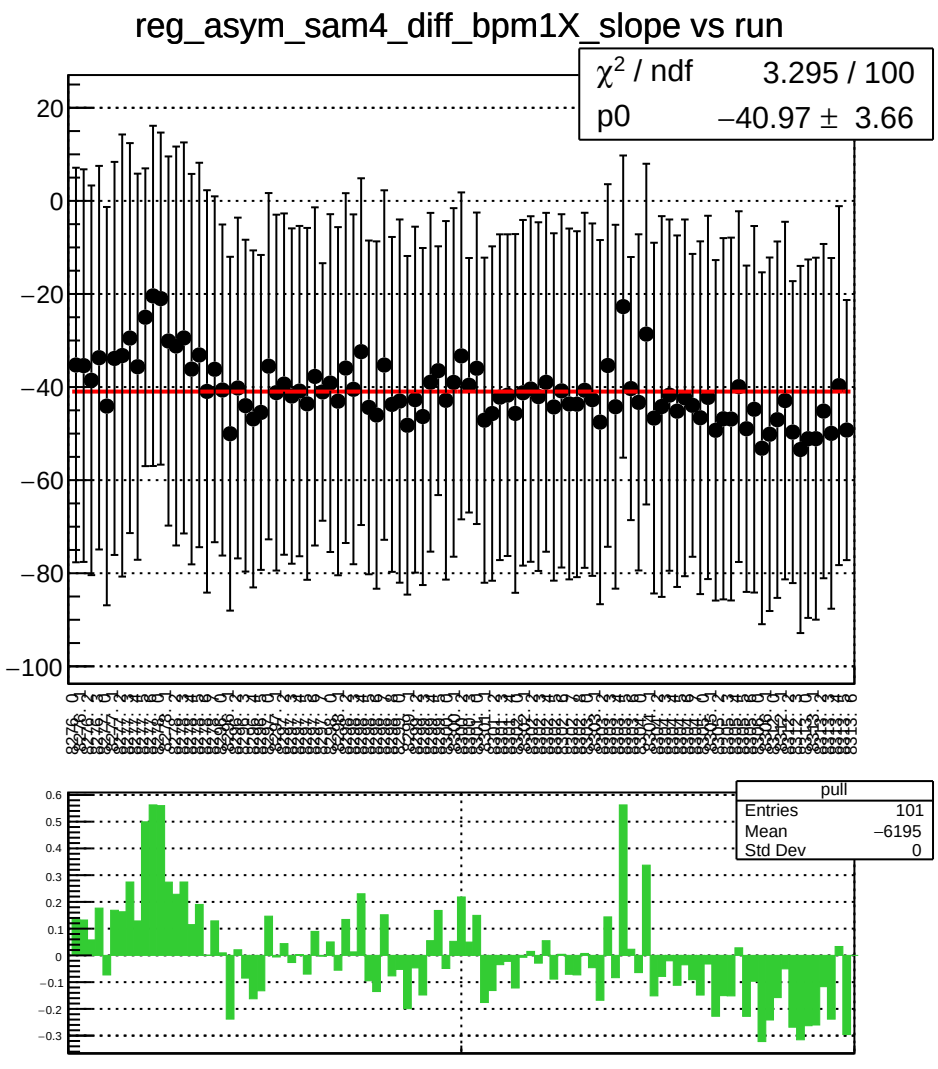

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 3.121 / 100
p0 0.4311 ± 4.538
pull
Entries 101
Mean 26.2
Std Dev 0
pull1D
Entries 101
Mean −0.0003807
Std Dev 0.1758

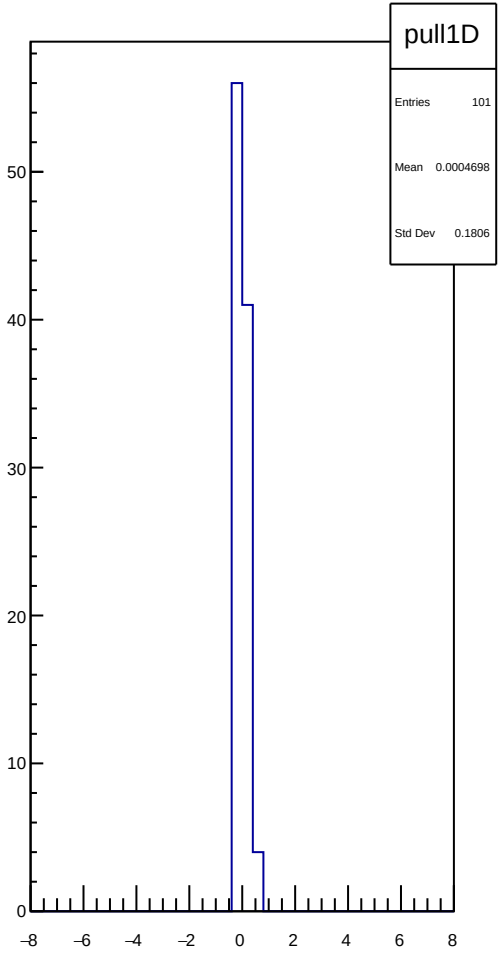

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 18.92 / 100
p0 −87.63 ± 2.601
−40
−60
−80
−100
−120
−140
−160
pull
Entries 101
Mean −268.8
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 101
Mean −0.02685
Std Dev 0.432
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

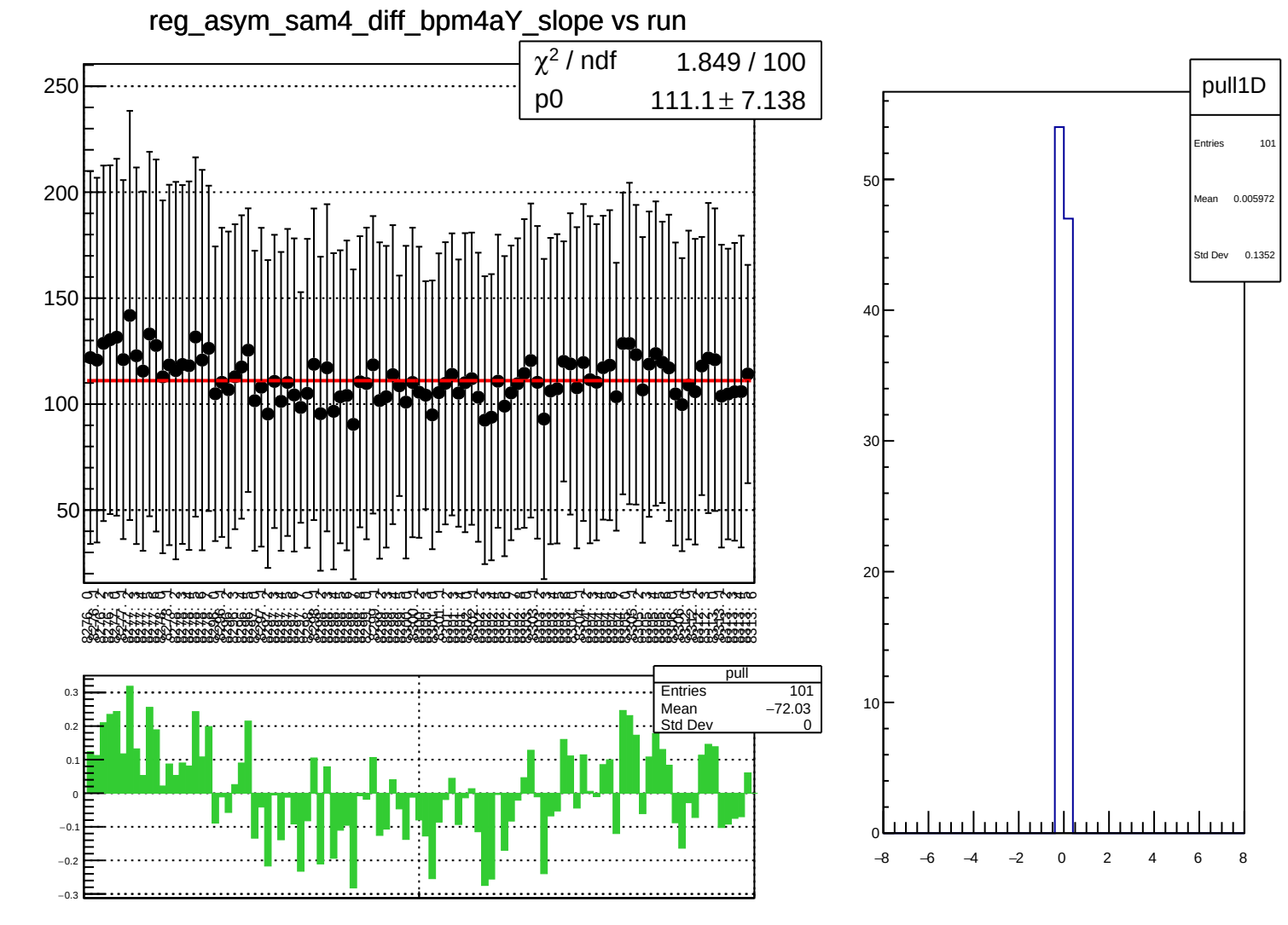

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 3.217 / 100
p0 16.96 ± 4.714
100
50
0
−50
−100
pull
Entries 101
Mean 53.49
Std Dev 0
0.4
0.2
0
−0.2
−0.4

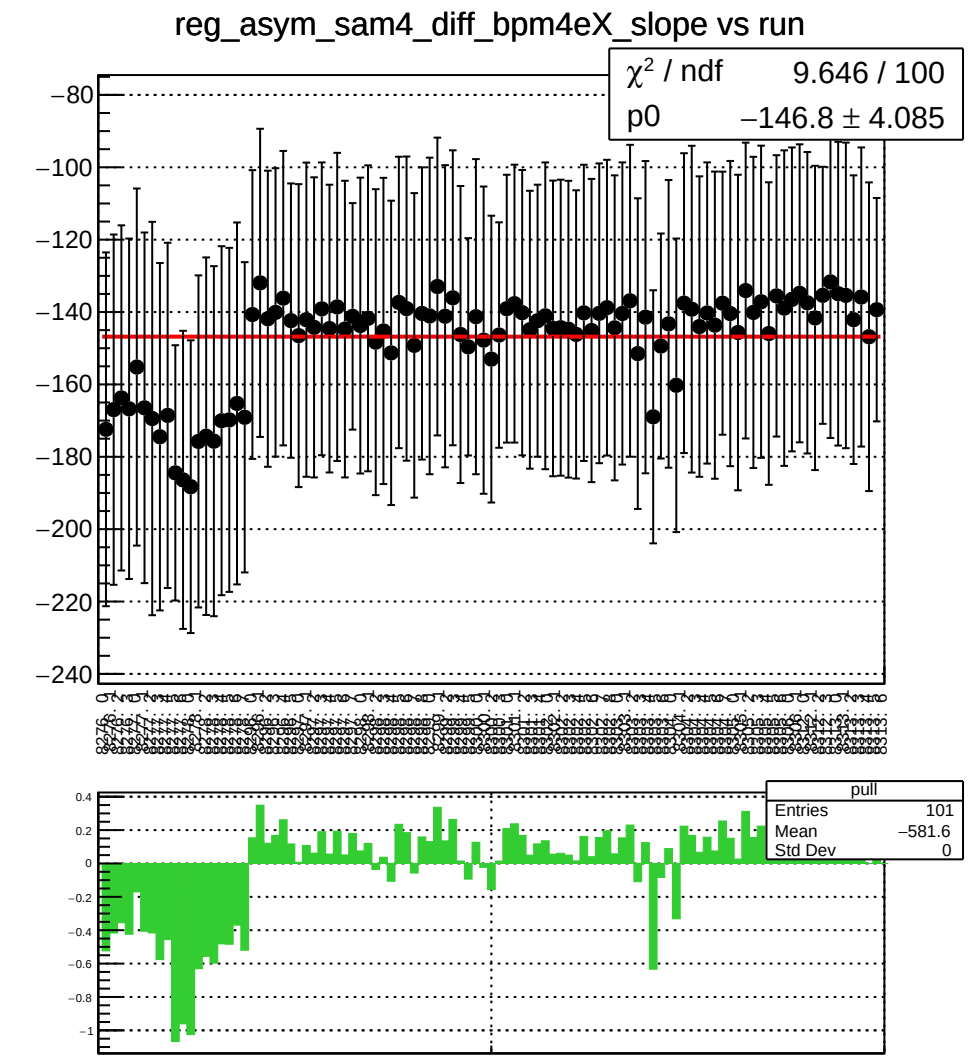

pull1D
Entries 101
Mean 0.0005243
Std Dev 0.1785
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

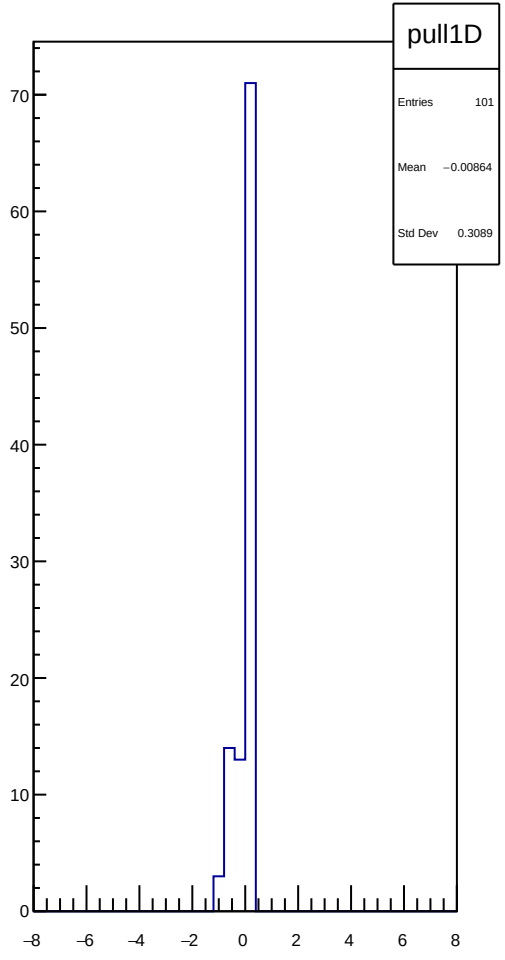

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 4.516 / 100
p0 1.073 ± 0.25
pull
Entries 101
Mean −181.1
Std Dev 0
pull1D
Entries 101
Mean 0.003219
Std Dev 0.2114

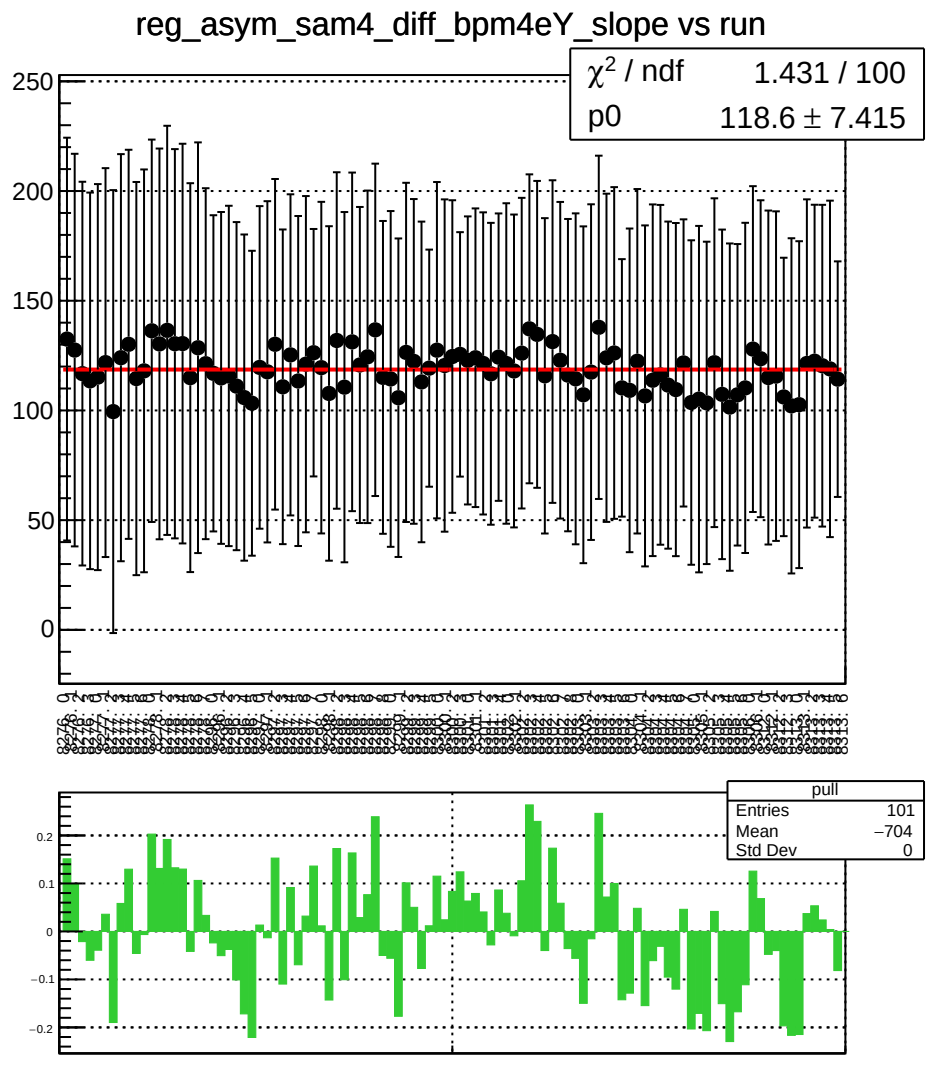

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 3.295 / 100
p0 −40.97 ± 3.66
pull
Entries 101
Mean −6195
Std Dev 0

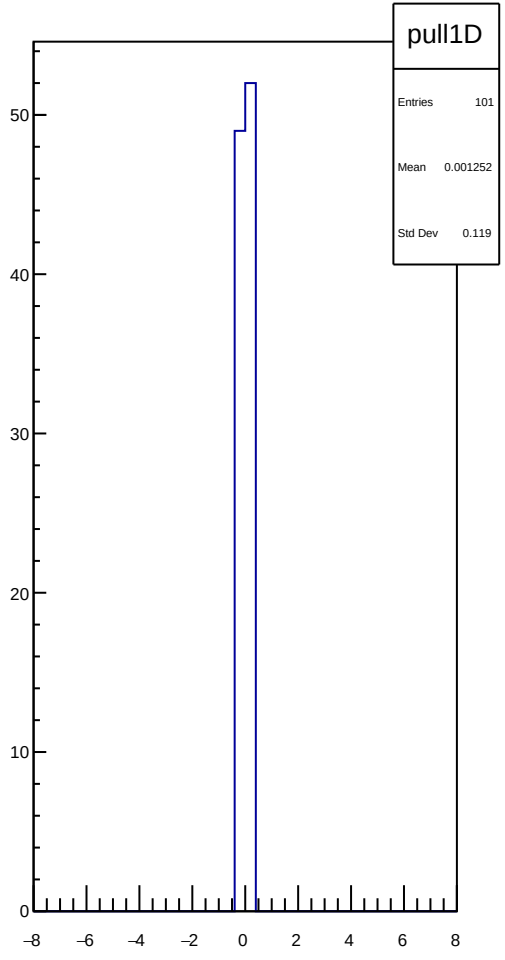

pull1D
Entries 101
Mean 0.0004698
Std Dev 0.1806

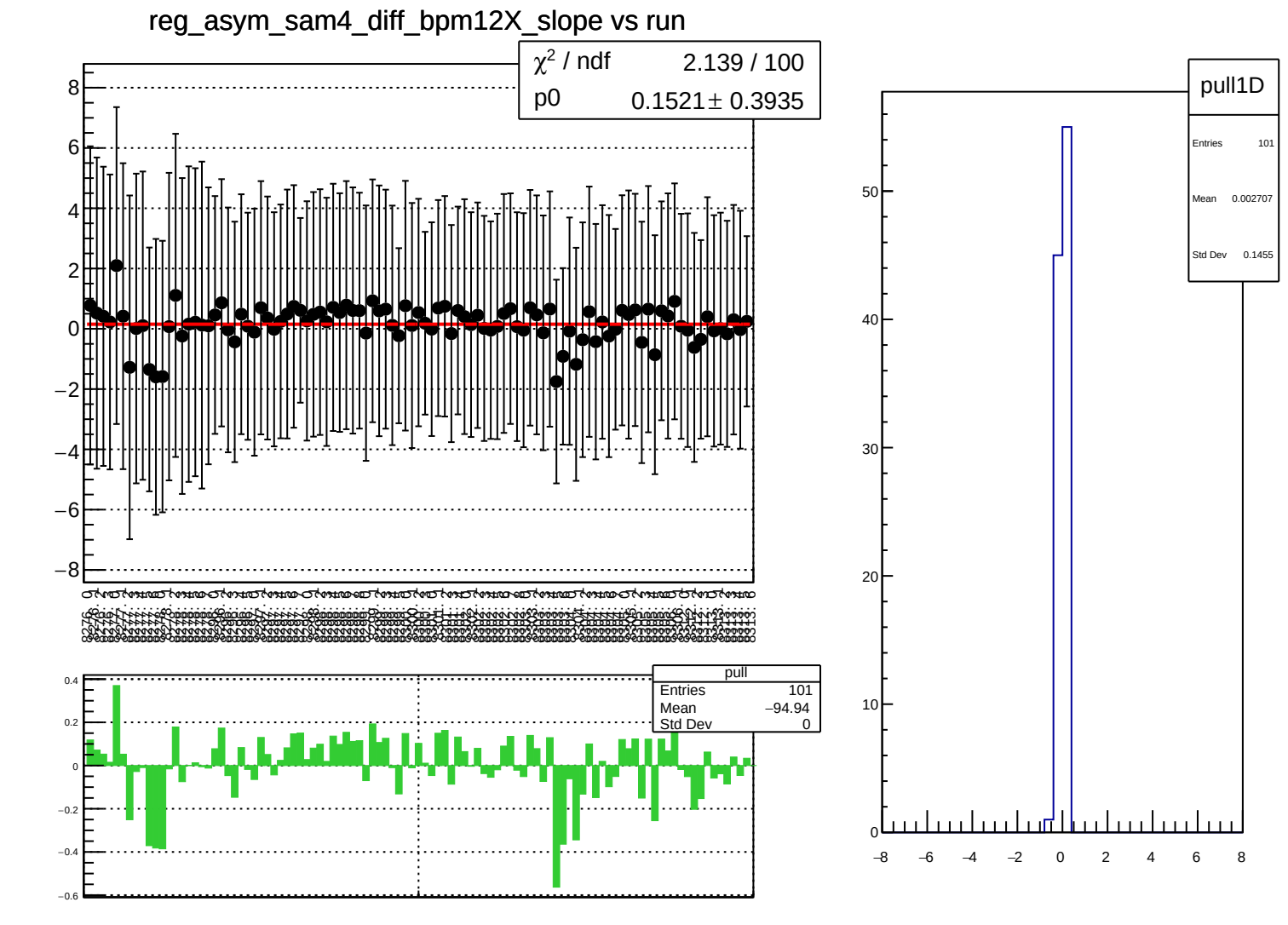

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 1.849 / 100
p0 111.1 ± 7.138
250
200
150
100
50
pull
Entries 101
Mean −72.03
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 101
Mean 0.005972
Std Dev 0.1352
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

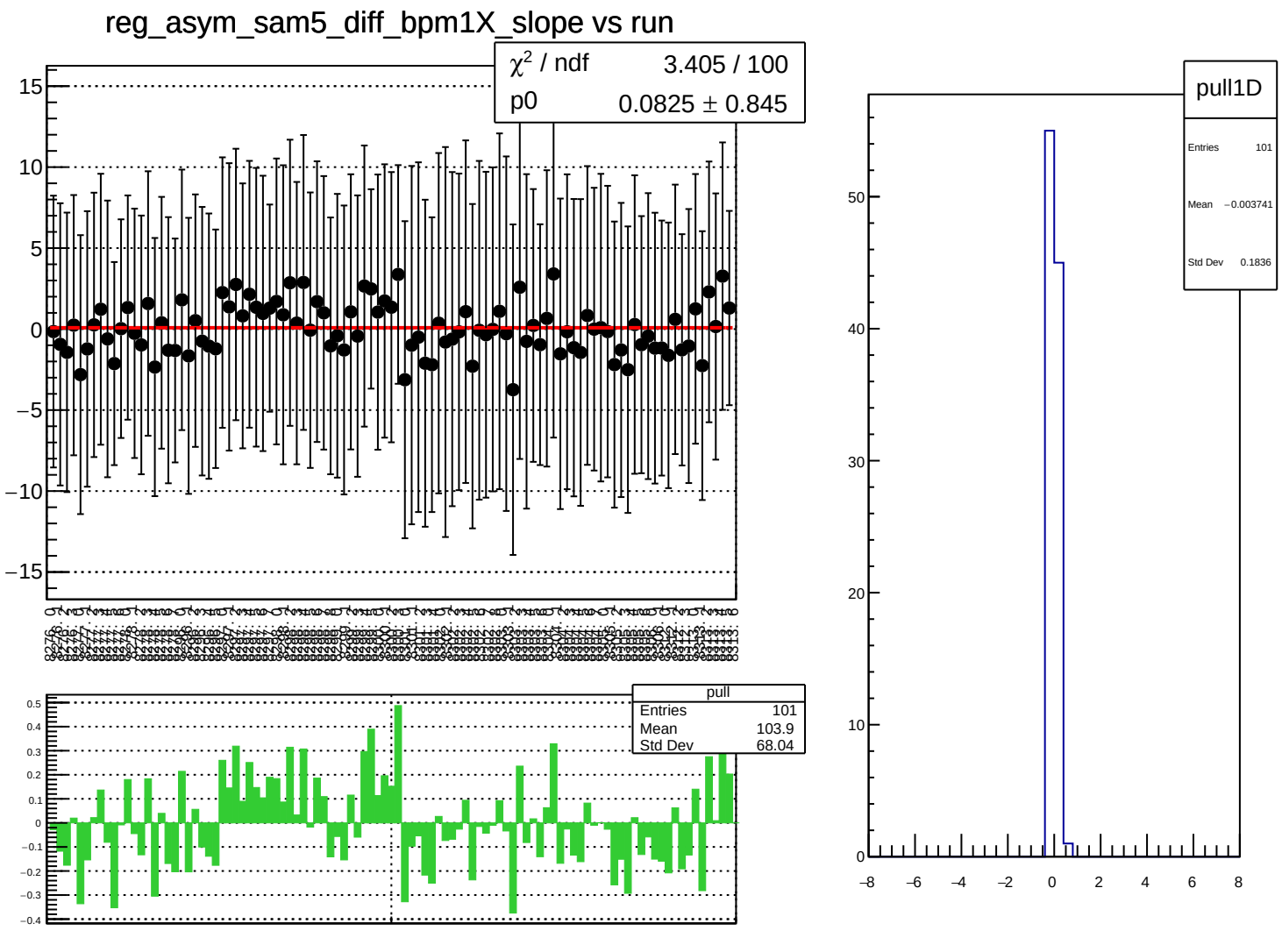

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 9.646 / 100
p0 −146.8 ± 4.085
pull
Entries 101
Mean −581.6
Std Dev 0

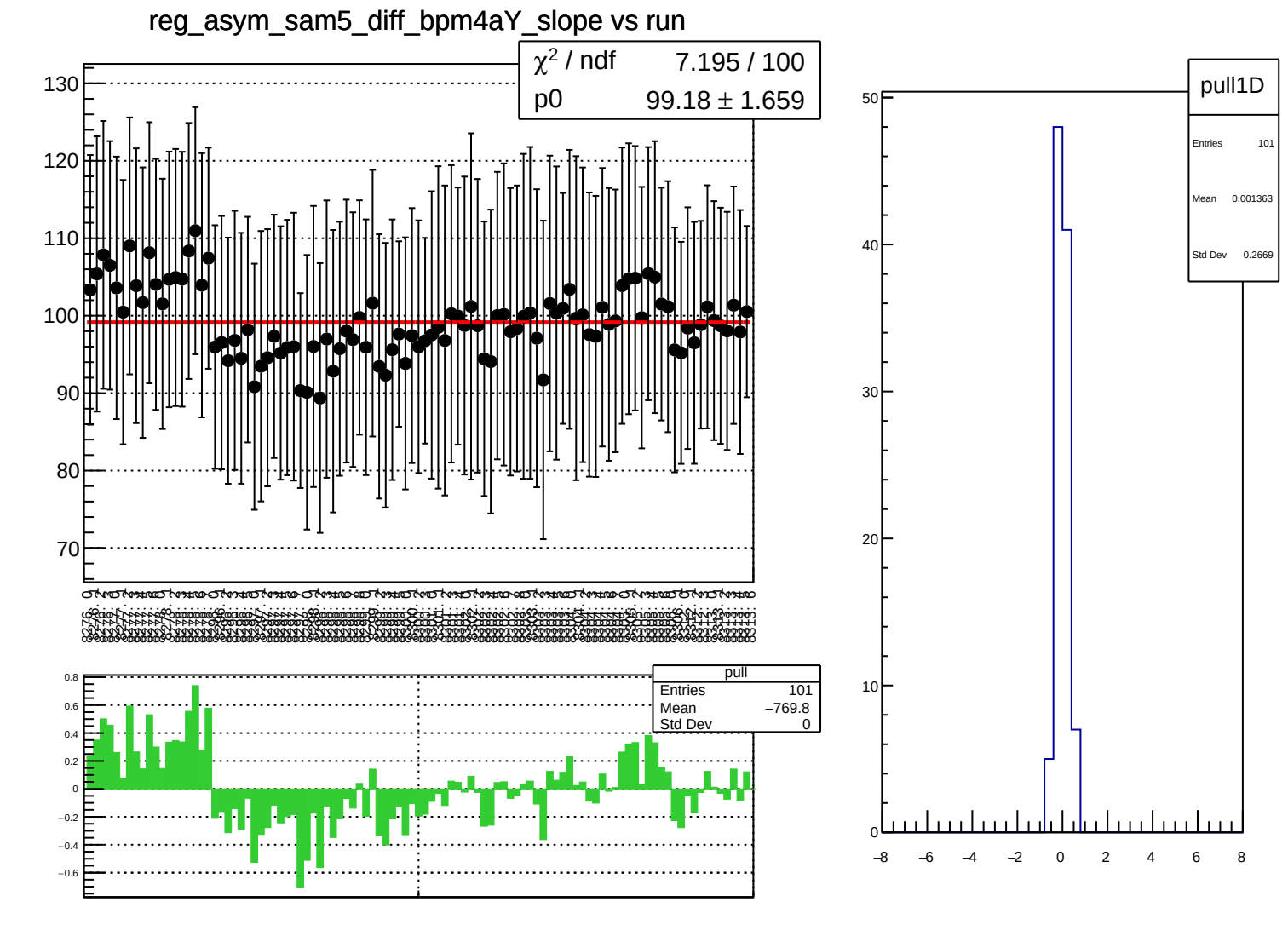

pull1D
Entries 101
Mean −0.00864
Std Dev 0.3089

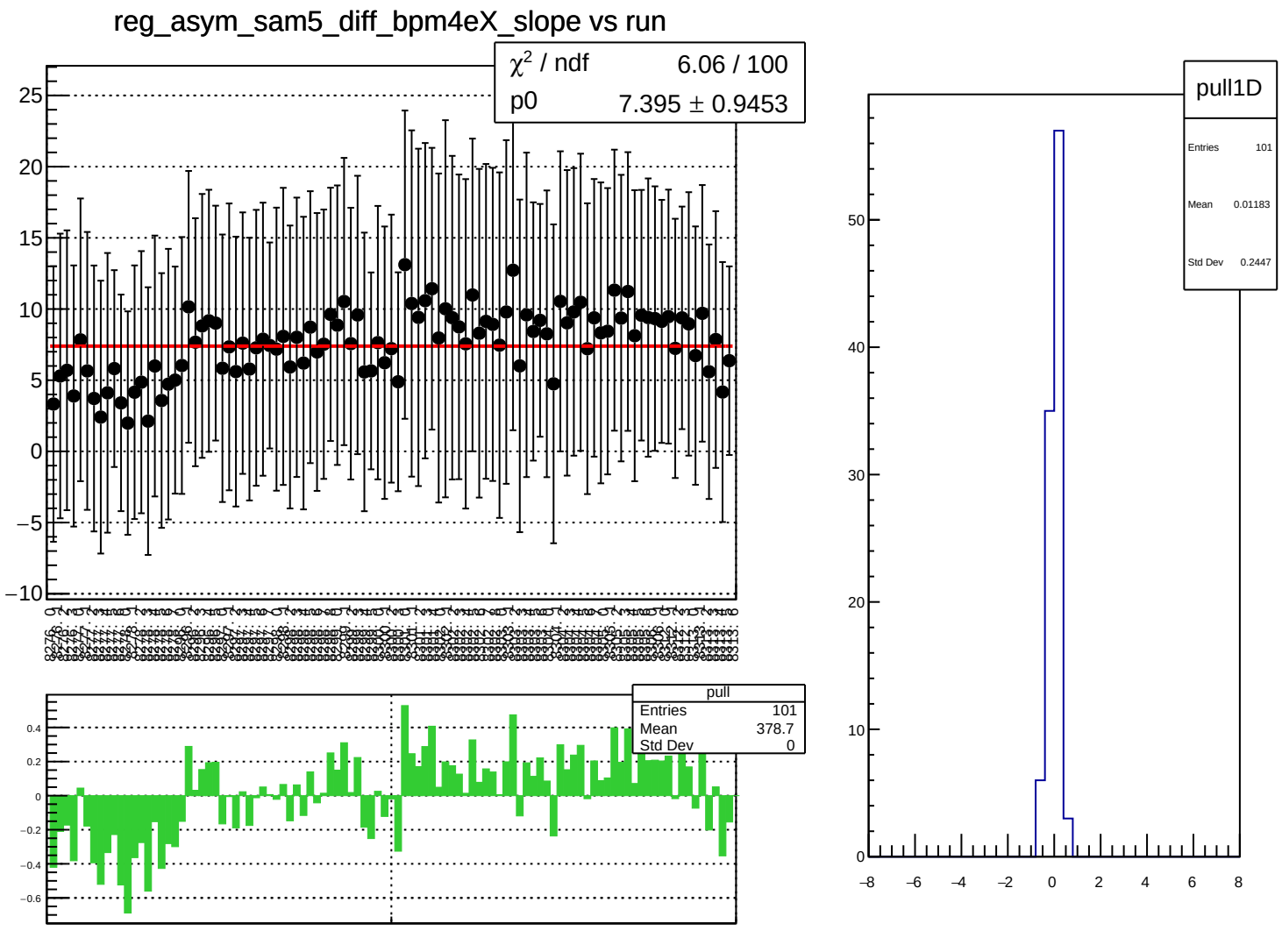

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 1.431 / 100
p0 118.6 ± 7.415
250
200
150
100
50
0
pull
Entries 101
Mean −704
Std Dev 0
0.2
0.1
0
−0.1
−0.2

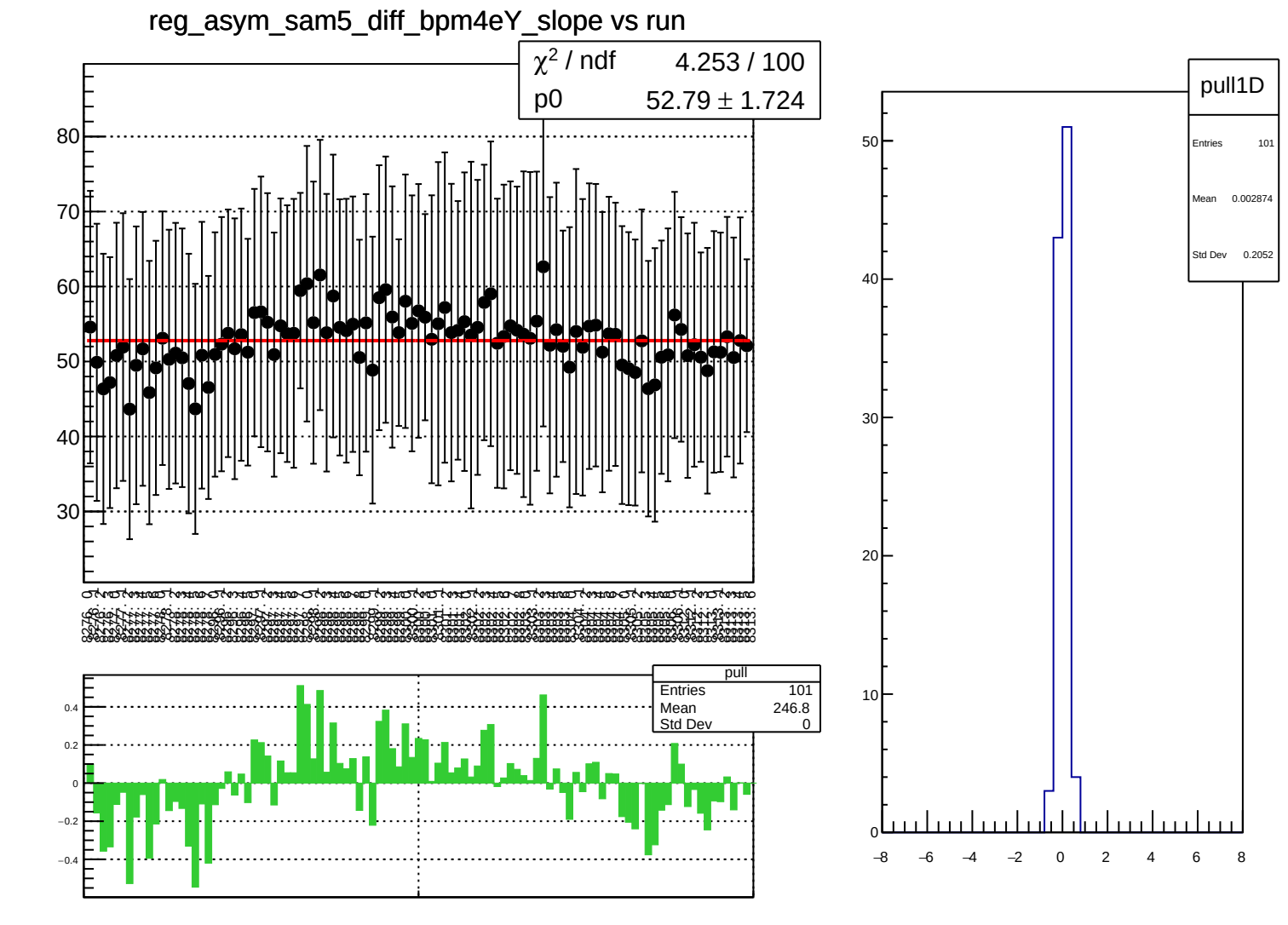

pull1D
Entries 101
Mean 0.001252
Std Dev 0.119
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

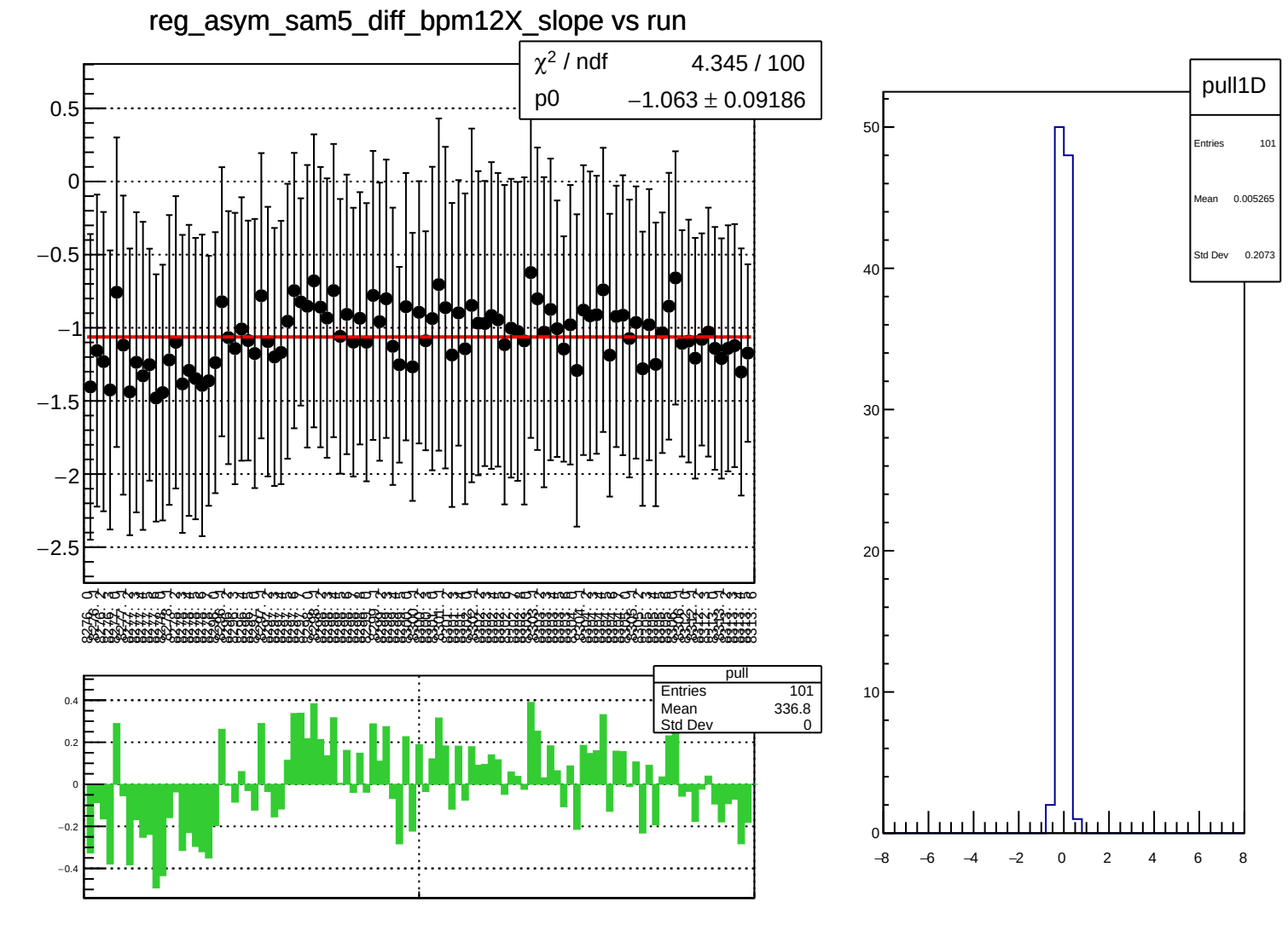

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 2.139 / 100
p0 0.1521 ± 0.3935
pull
Entries 101
Mean −94.94
Std Dev 0
pull1D
Entries 101
Mean 0.002707
Std Dev 0.1455

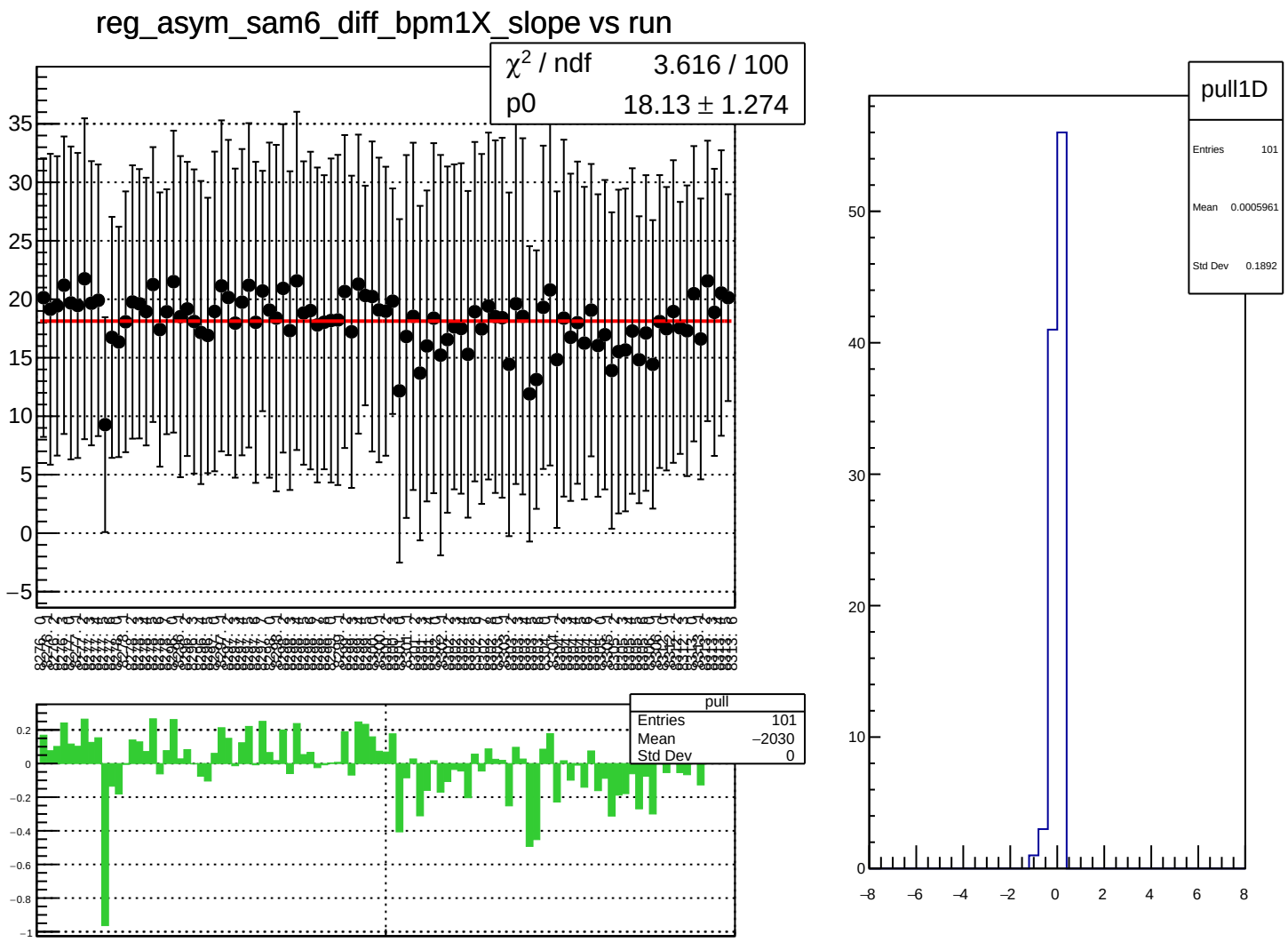

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 3.405 / 100
p0 0.0825 ± 0.845
pull
Entries 101
Mean 103.9
Std Dev 68.04
pull1D
Entries 101
Mean −0.003741
Std Dev 0.1836

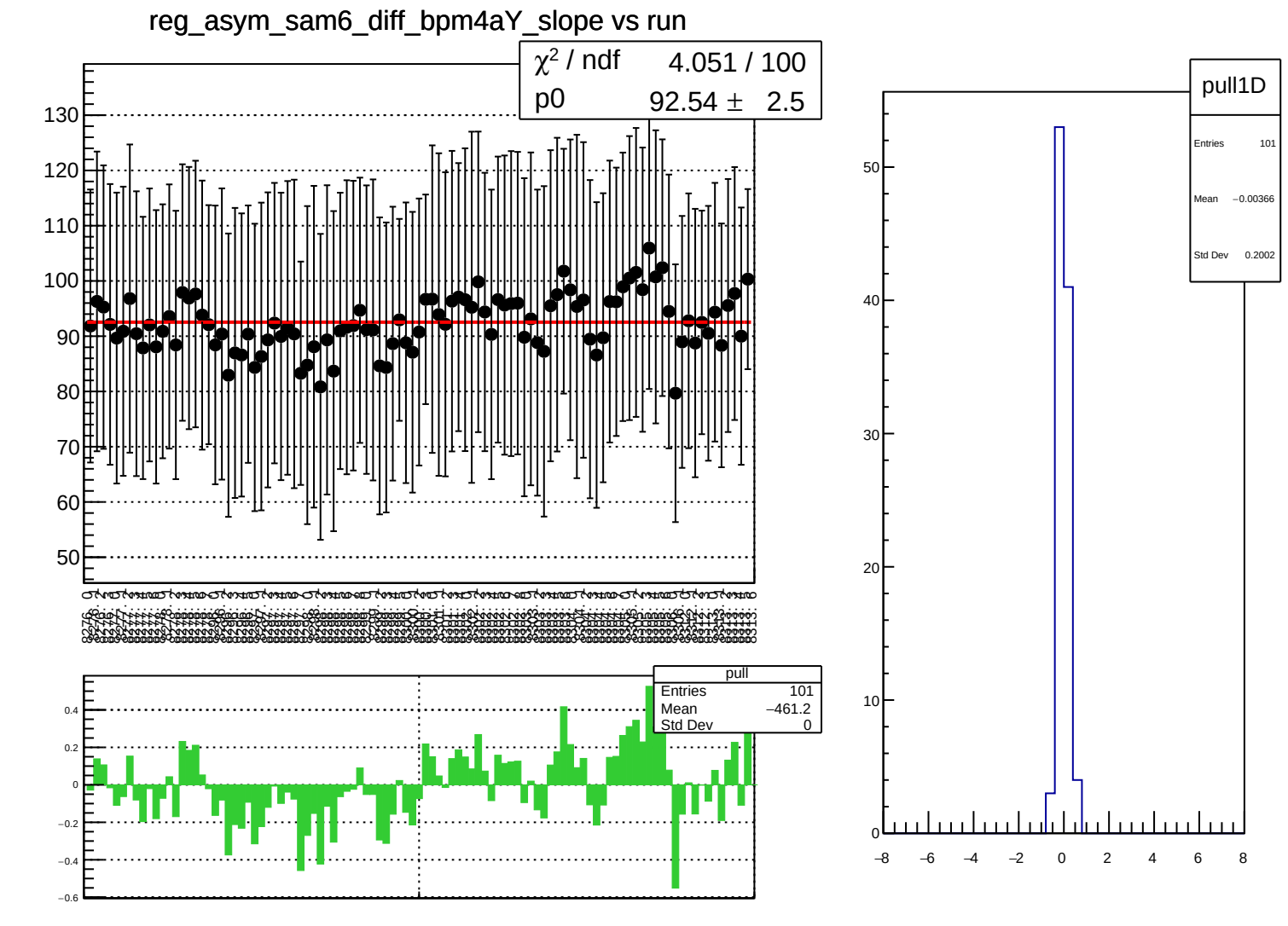

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 7.195 / 100
p0 99.18 ± 1.659
130
120
110
100
90
80
70
pull
Entries 101
Mean −769.8
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 101
Mean 0.001363
Std Dev 0.2669
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

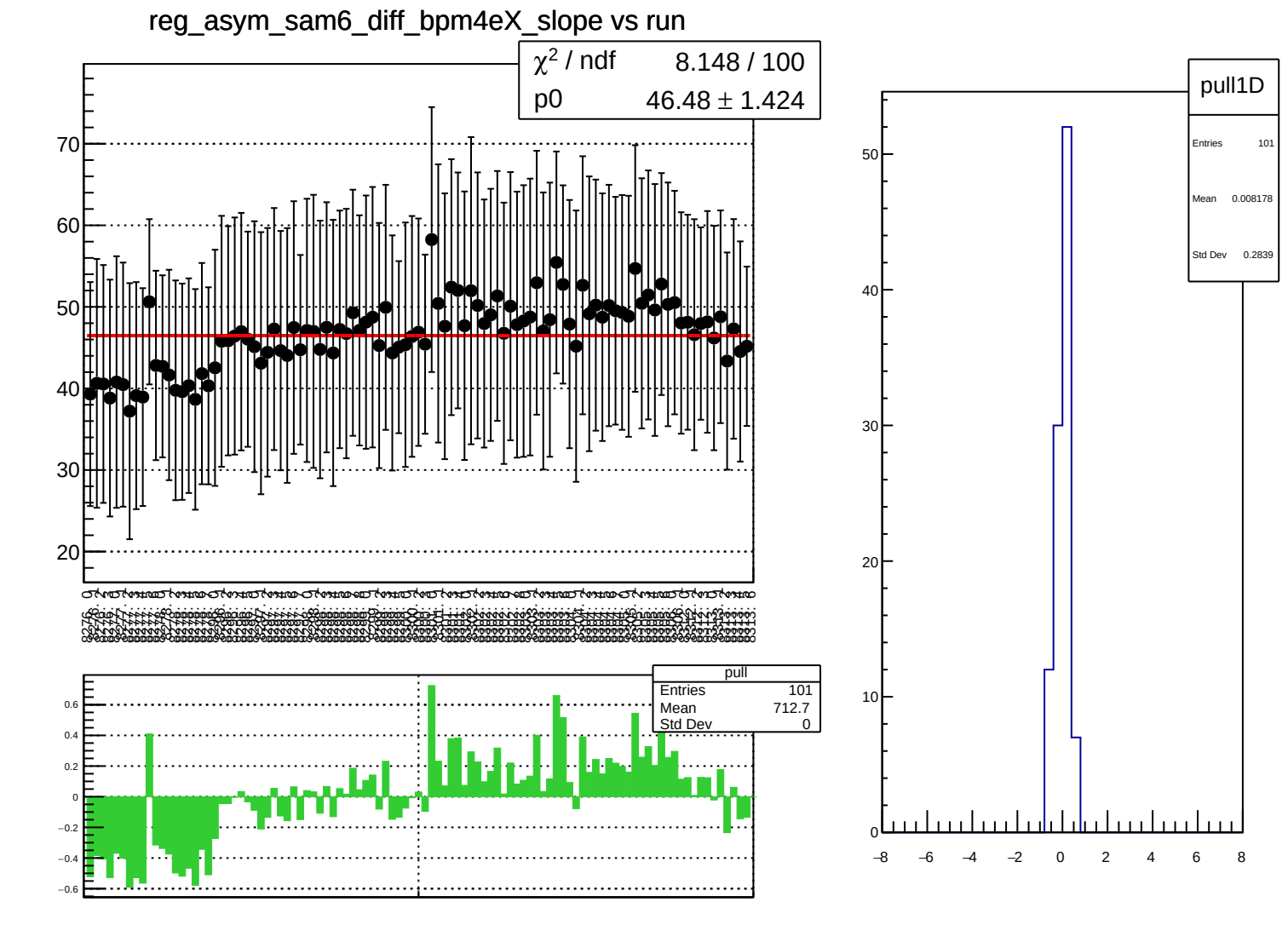

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 6.06 / 100
p0 7.395 ± 0.9453
pull
Entries 101
Mean 378.7
Std Dev 0
pull1D
Entries 101
Mean 0.01183
Std Dev 0.2447

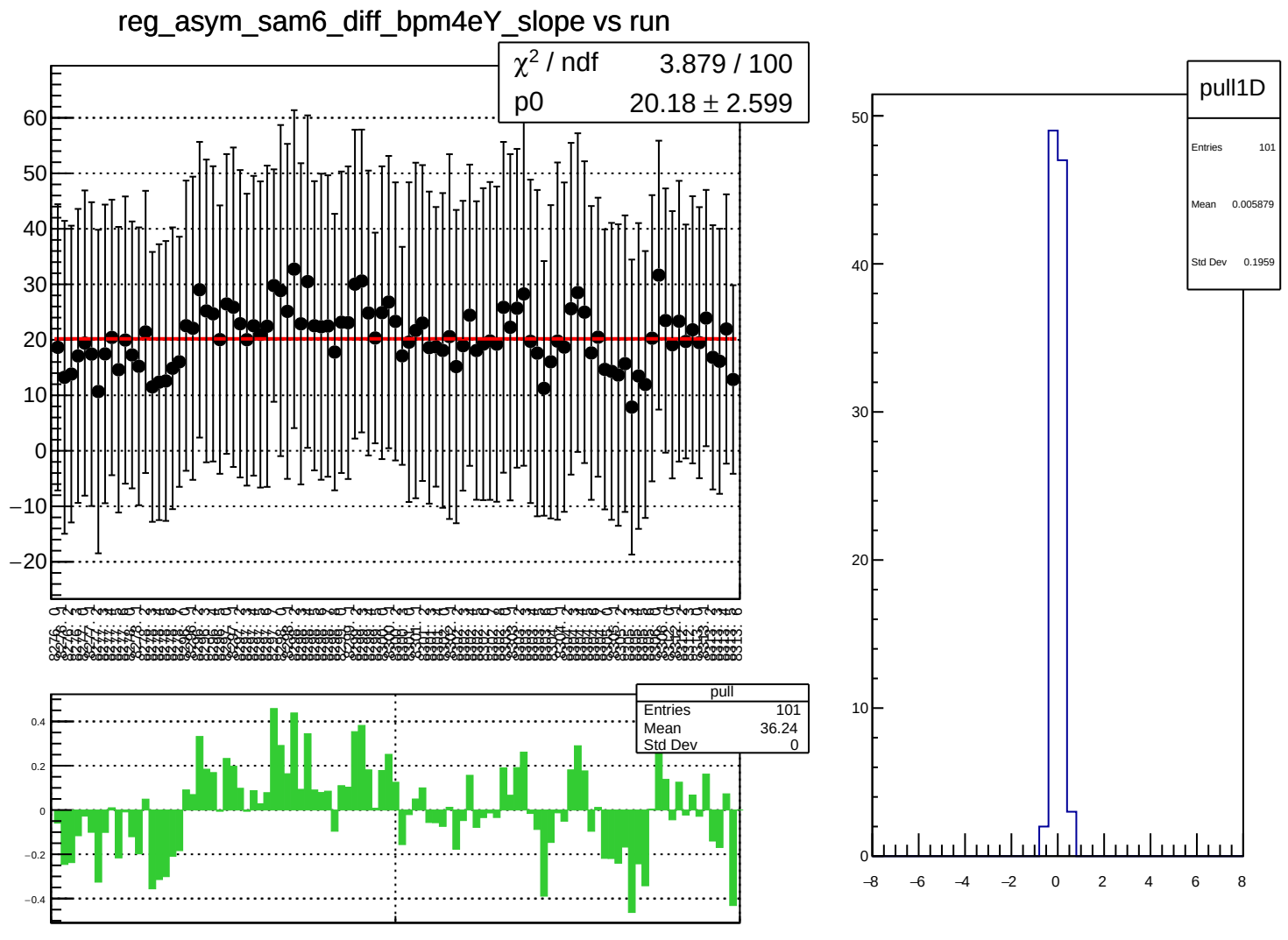

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 4.253 / 100
p0 52.79 ± 1.724
pull
Entries 101
Mean 246.8
Std Dev 0
pull1D
Entries 101
Mean 0.002874
Std Dev 0.2052

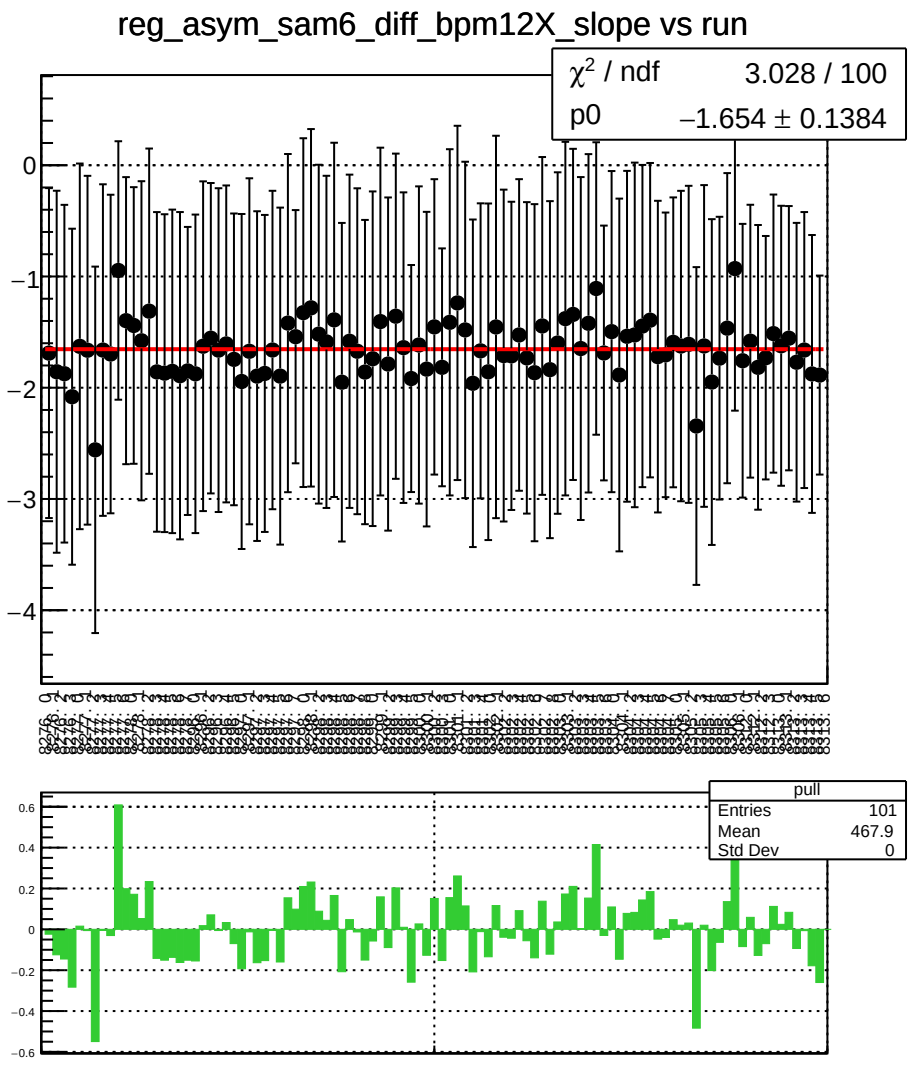

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 4.345 / 100
p0 −1.063 ± 0.09186
pull
Entries 101
Mean 336.8
Std Dev 0
pull1D
Entries 101
Mean 0.005265
Std Dev 0.2073

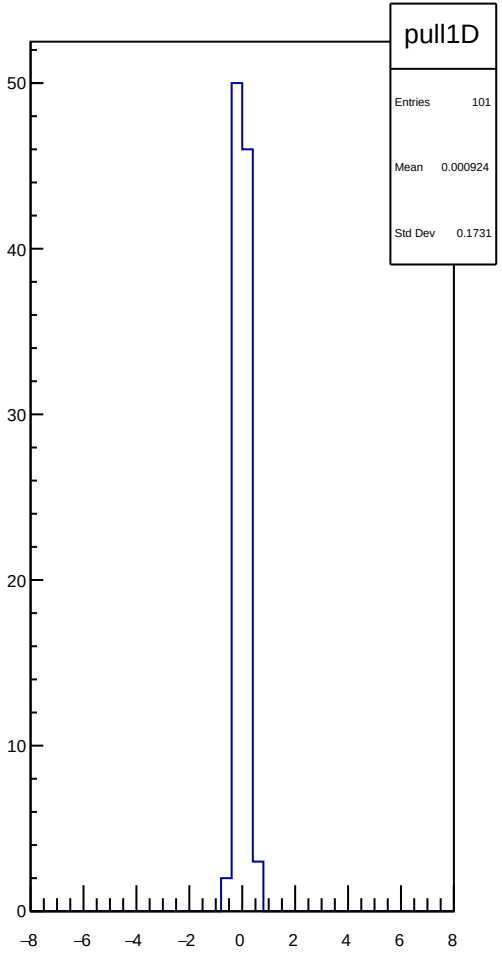

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 3.616 / 100
p0 18.13 ± 1.274
pull
Entries 101
Mean −2030
Std Dev 0
pull1D
Entries 101
Mean 0.0005961
Std Dev 0.1892

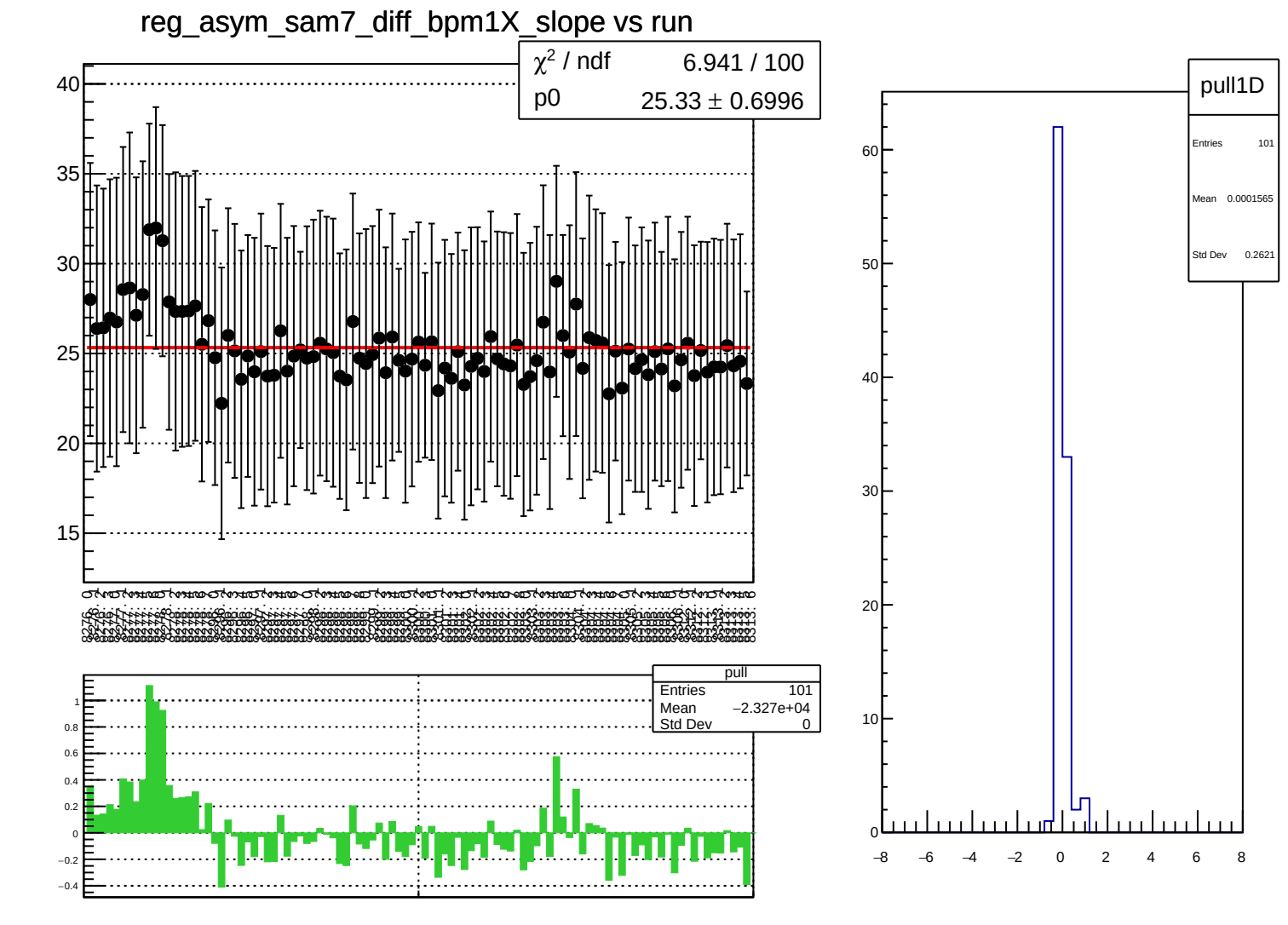

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 4.051 / 100
p0 92.54 ± 2.5
pull
Entries 101
Mean −461.2
Std Dev 0
pull1D
Entries 101
Mean −0.00366
Std Dev 0.2002

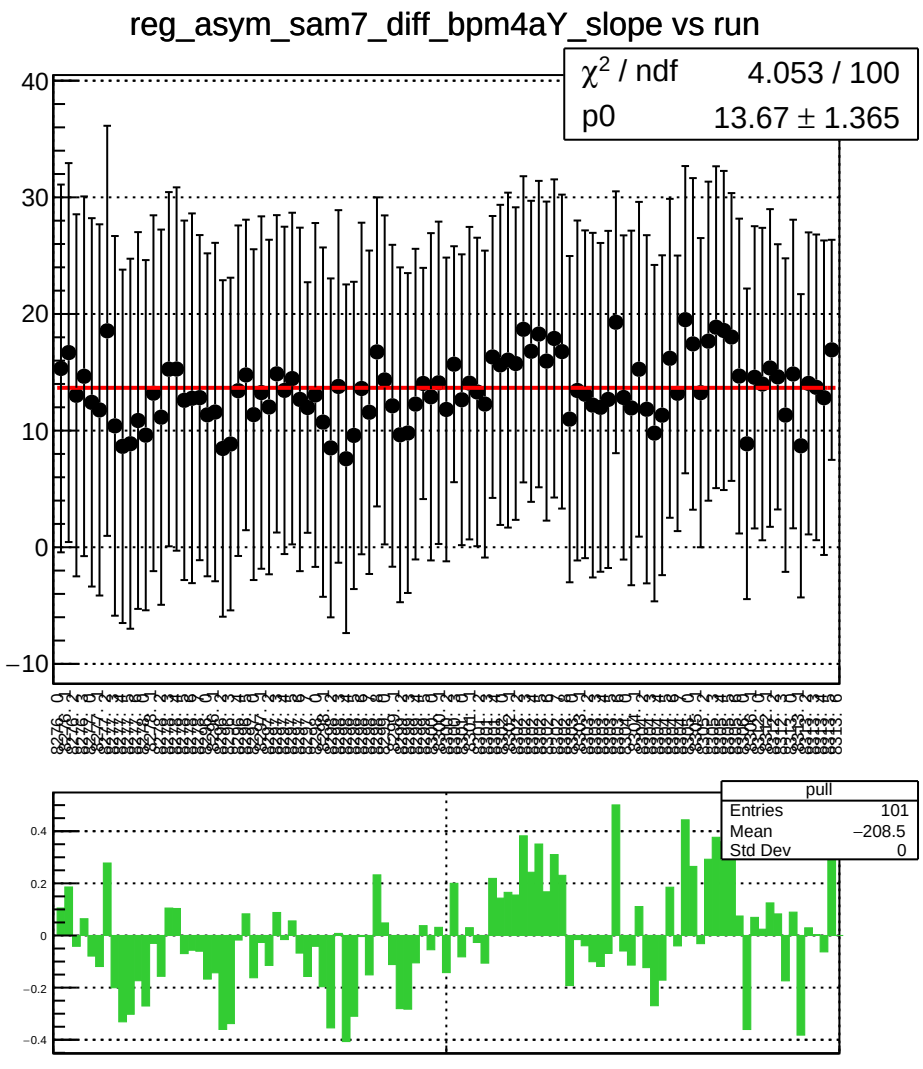

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 8.148 / 100
p0 46.48 ± 1.424
pull
Entries 101
Mean 712.7
Std Dev 0
pull1D
Entries 101
Mean 0.008178
Std Dev 0.2839

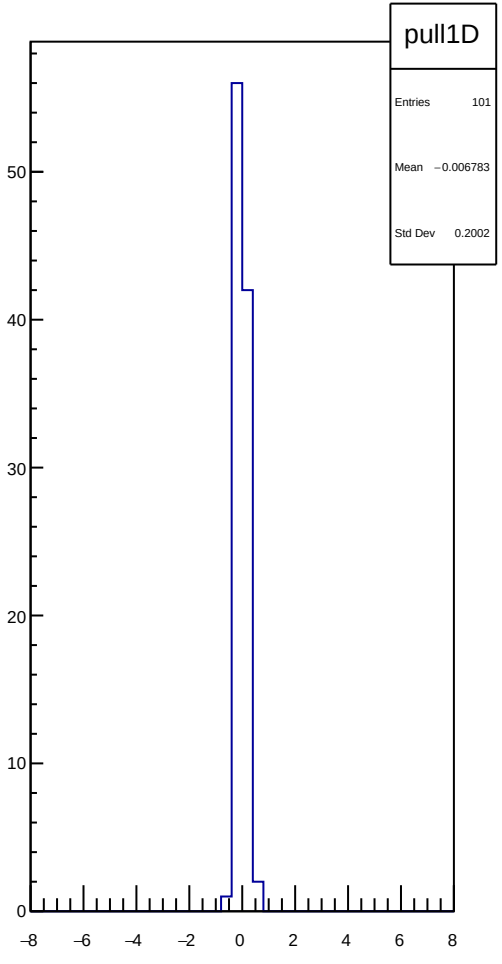

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 3.879 / 100
p0 20.18 ± 2.599
pull
Entries 101
Mean 36.24
Std Dev 0
pull1D
Entries 101
Mean 0.005879
Std Dev 0.1959

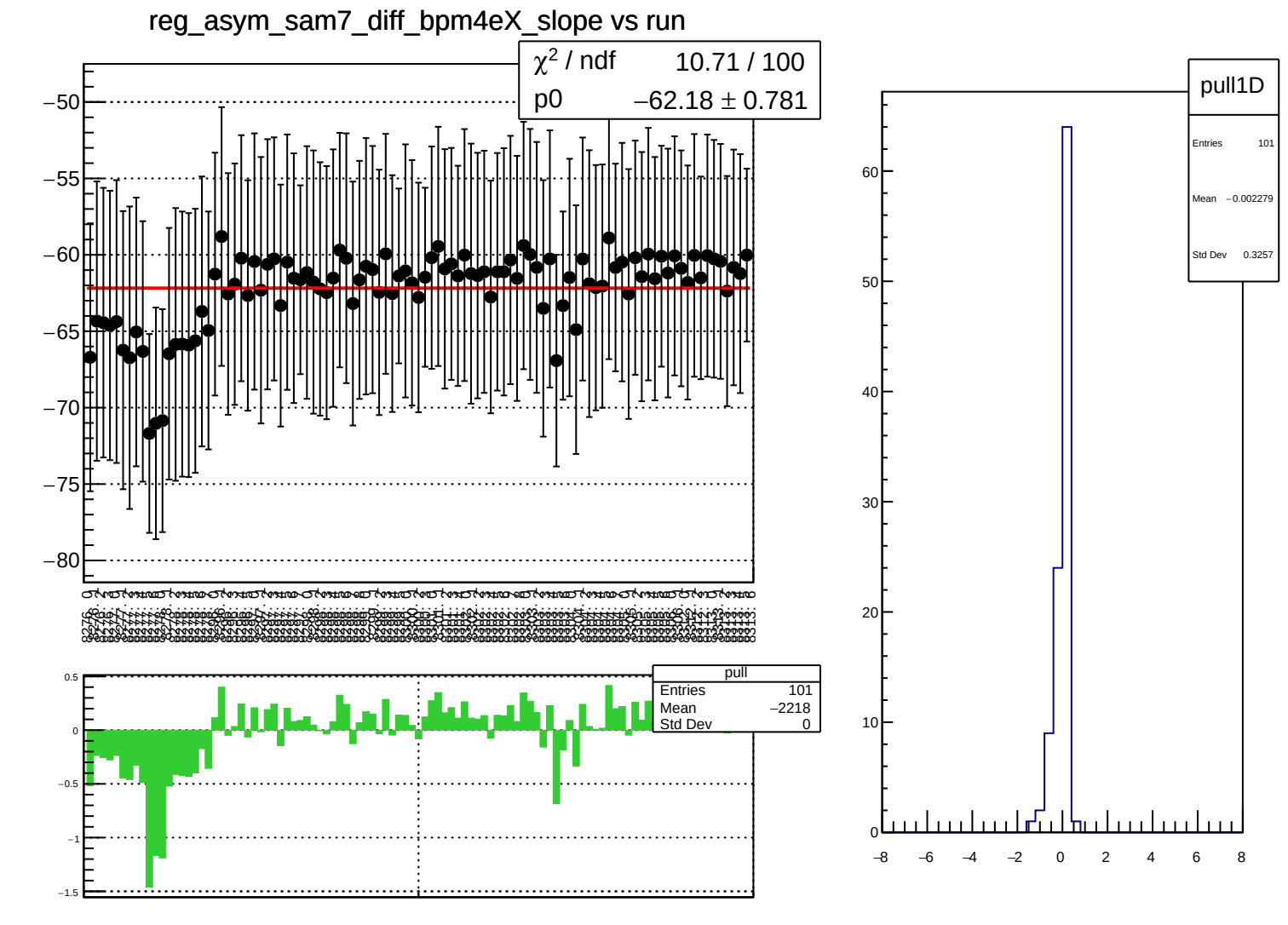

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 3.028 / 100
p0 −1.654 ± 0.1384
pull
Entries 101
Mean 467.9
Std Dev 0

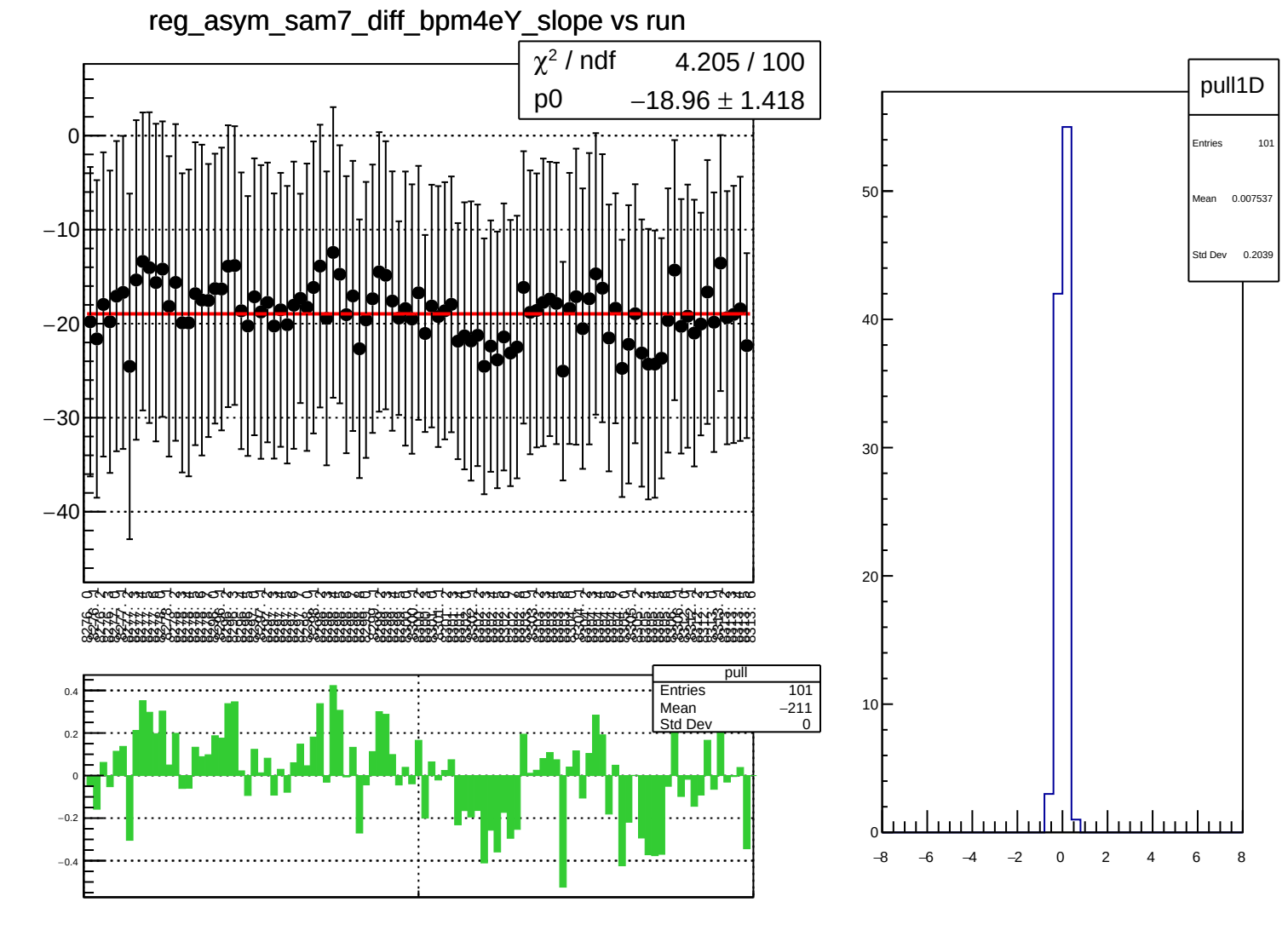

pull1D
Entries 101
Mean 0.000924
Std Dev 0.1731

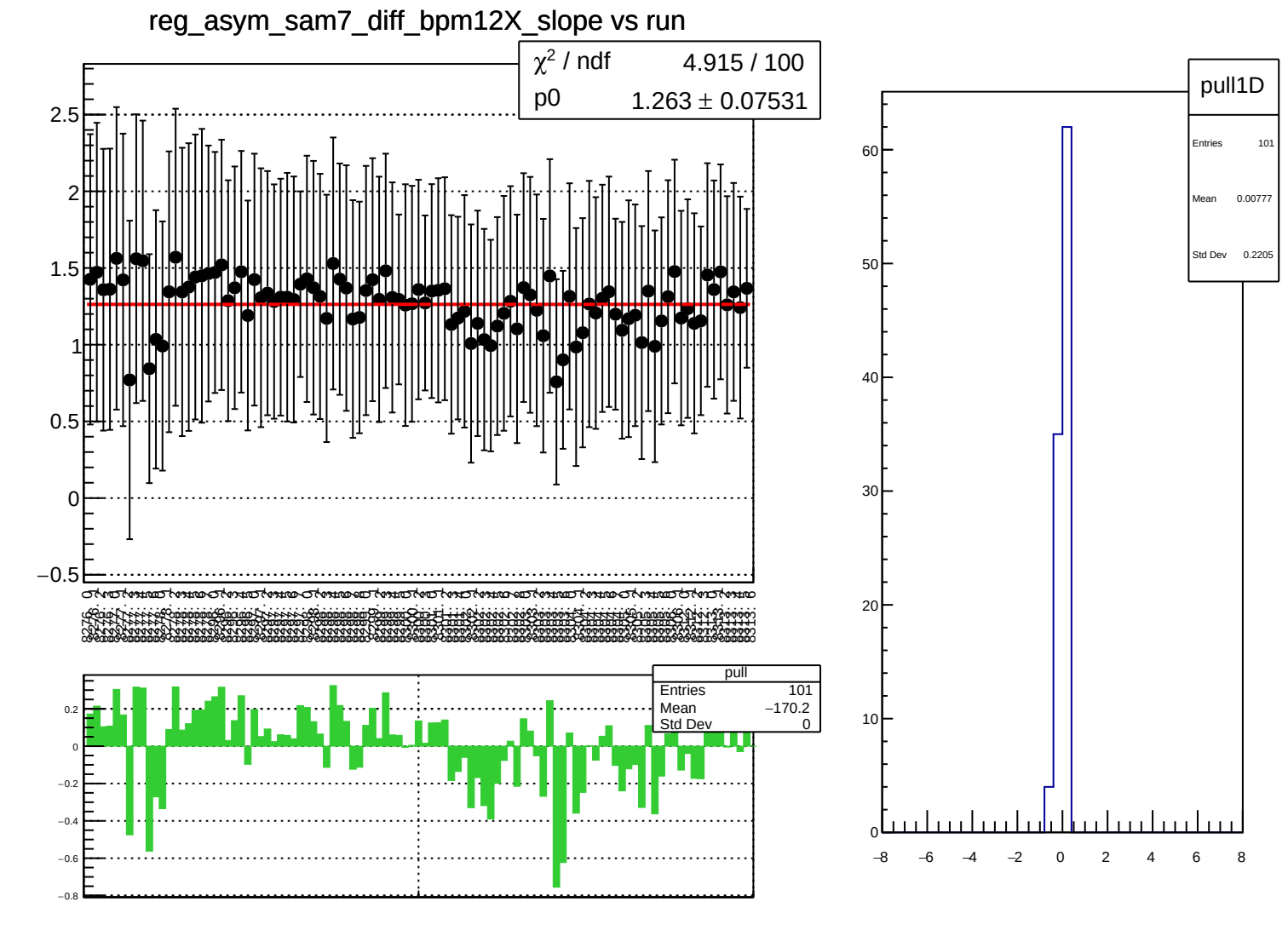

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 6.941 / 100
p0 25.33 ± 0.6996
pull
Entries 101
Mean −2.327e+04
Std Dev 0
pull1D
Entries 101
Mean 0.0001565
Std Dev 0.2621

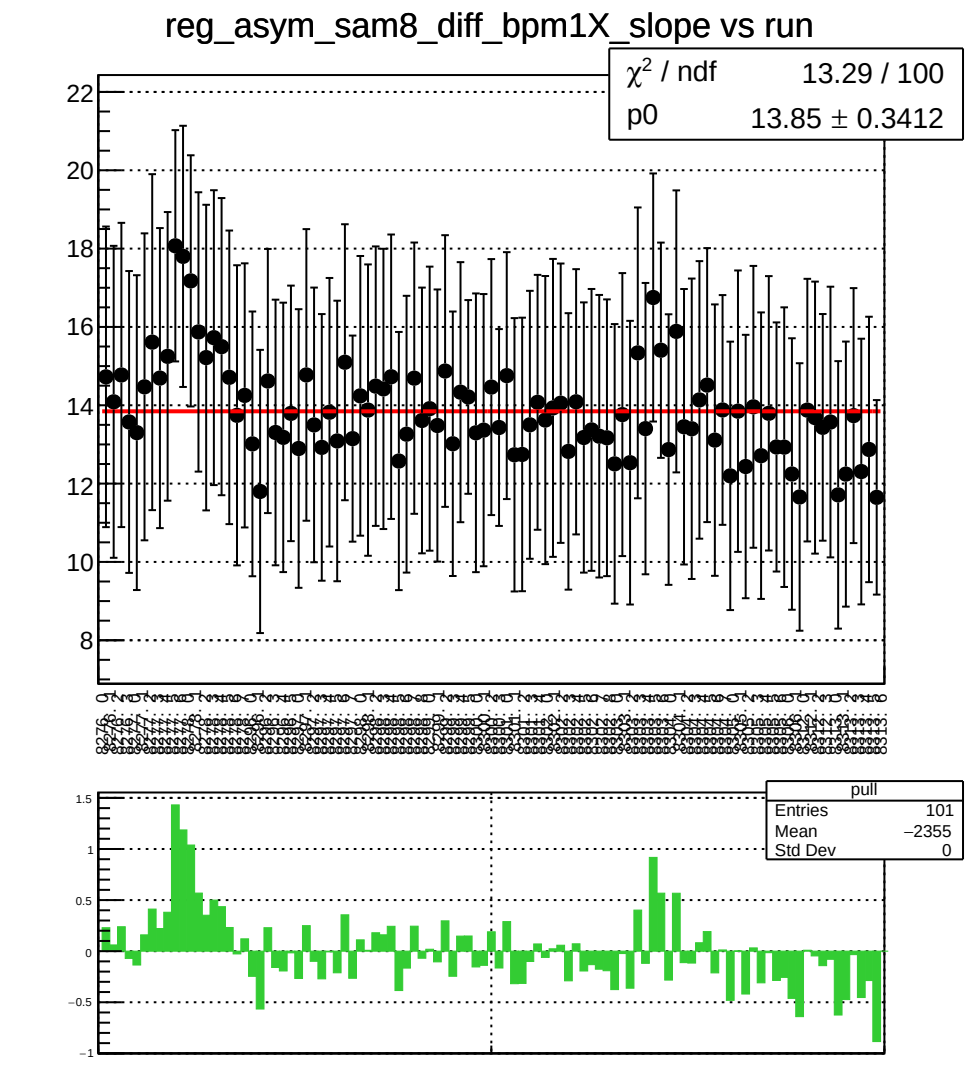

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 4.053 / 100
p0 13.67 ± 1.365
pull
Entries 101
Mean −208.5
Std Dev 0

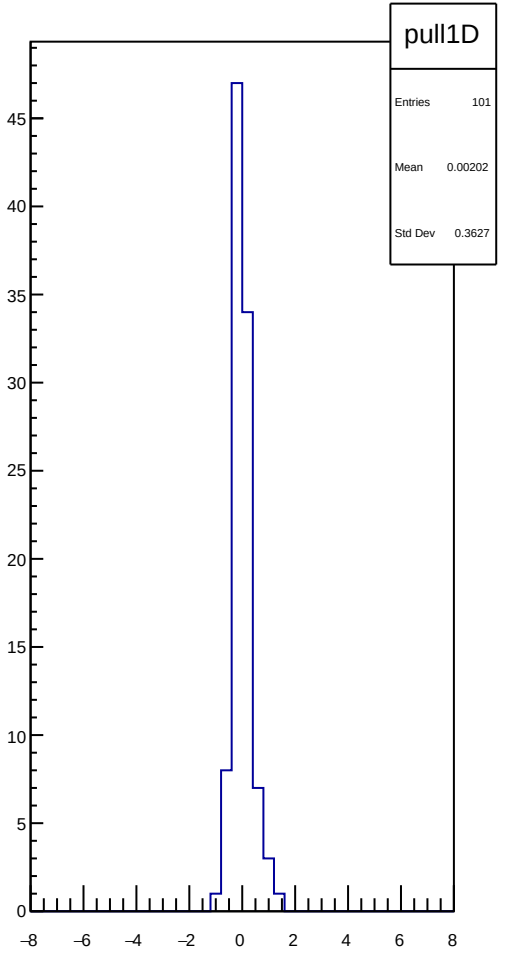

pull1D
Entries 101
Mean −0.006783
Std Dev 0.2002

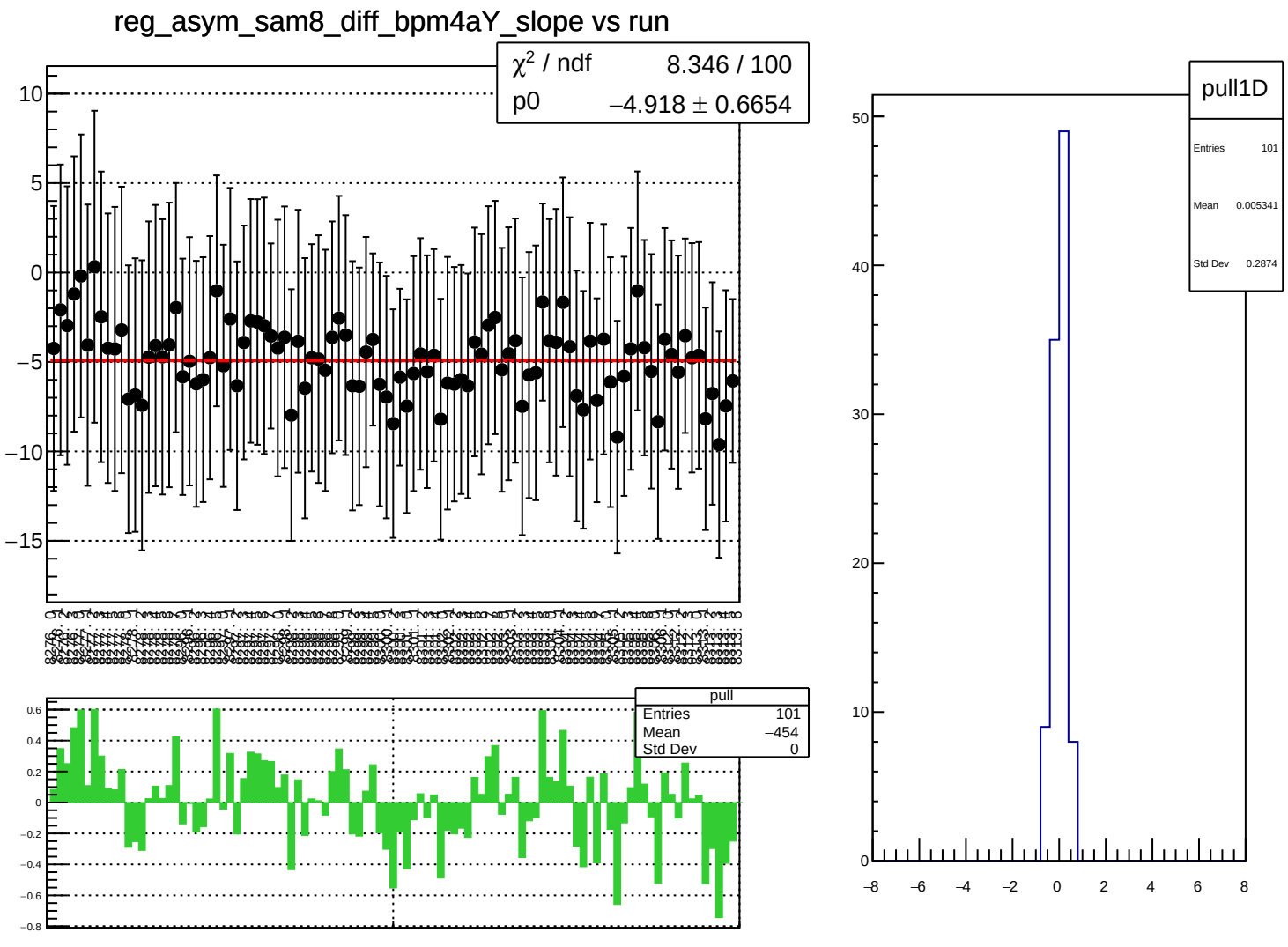

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 10.71 / 100
p0 −62.18 ± 0.781
−50
−55
−60
−65
−70
−75
−80
pull
Entries 101
Mean −2218
Std Dev 0
0.5
0
−0.5
−1
−1.5
pull1D
Entries 101
Mean −0.002279
Std Dev 0.3257
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

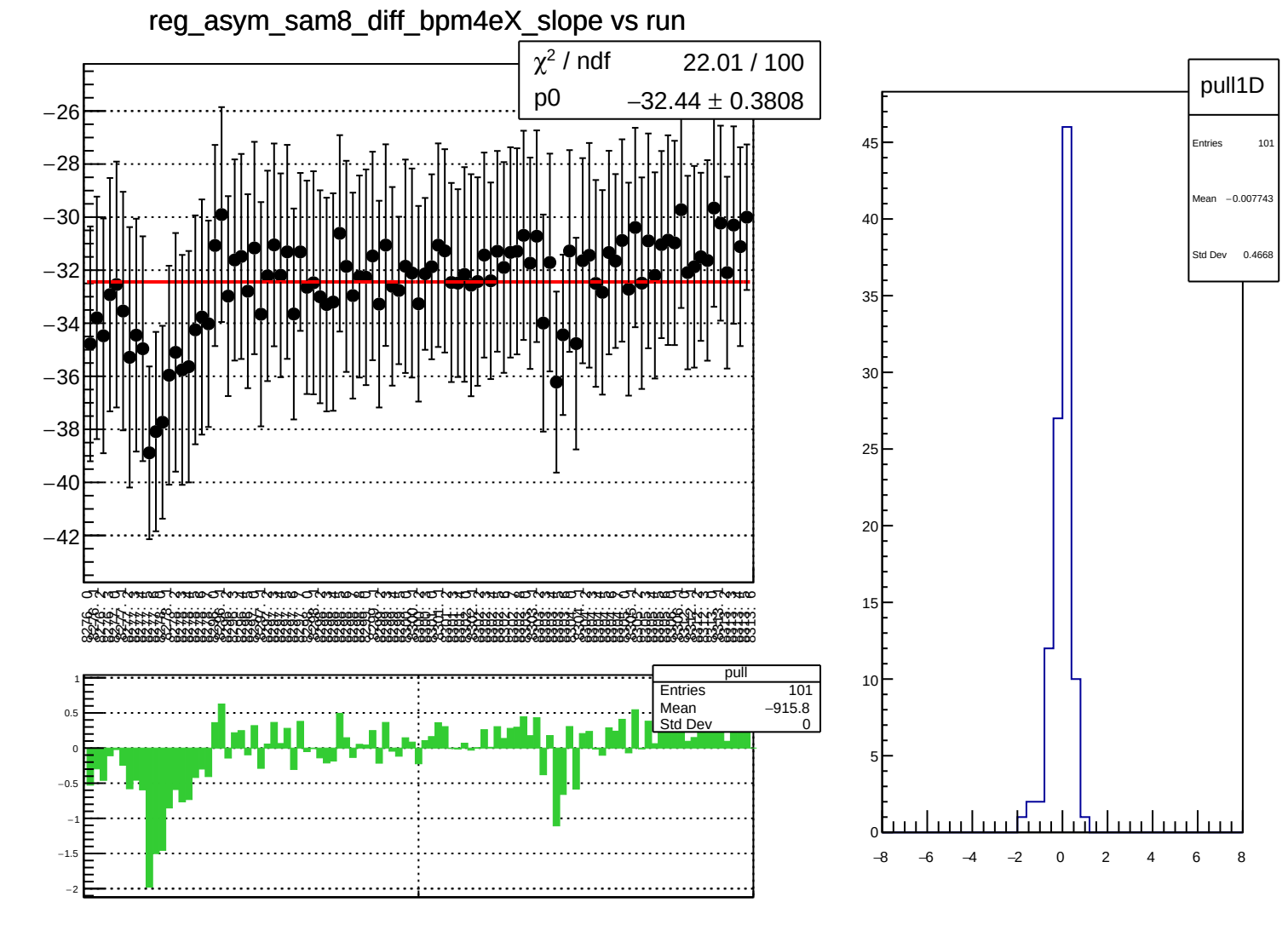

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 4.205 / 100
p0 −18.96 ± 1.418
0
−10
−20
−30
−40
pull
Entries 101
Mean −211
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 101
Mean 0.007537
Std Dev 0.2039
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

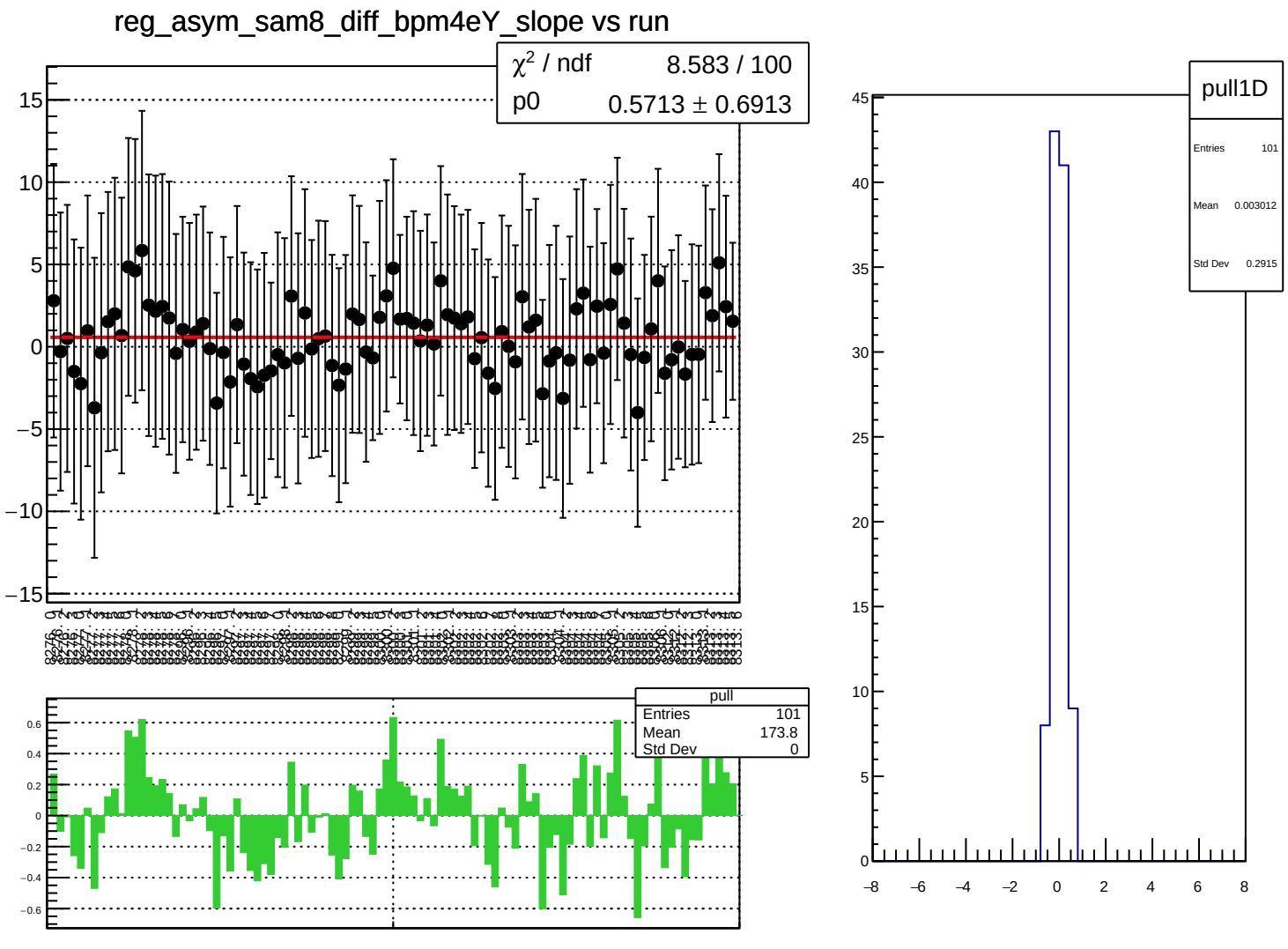

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 4.915 / 100
p0 1.263 ± 0.07531
pull
Entries 101
Mean −170.2
Std Dev 0
pull1D
Entries 101
Mean 0.00777
Std Dev 0.2205

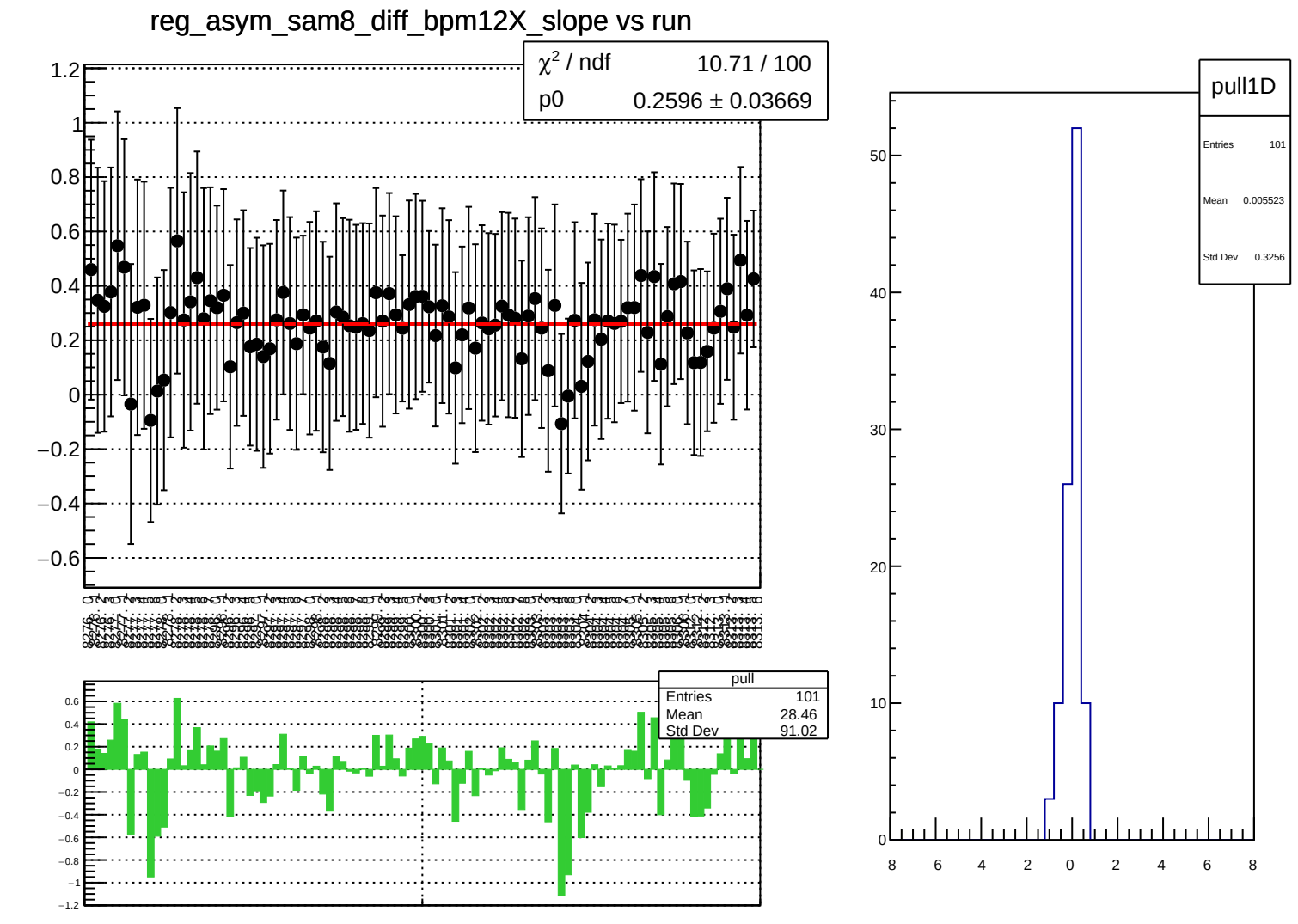

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 13.29 / 100
p0 13.85 ± 0.3412
pull
Entries 101
Mean −2355
Std Dev 0

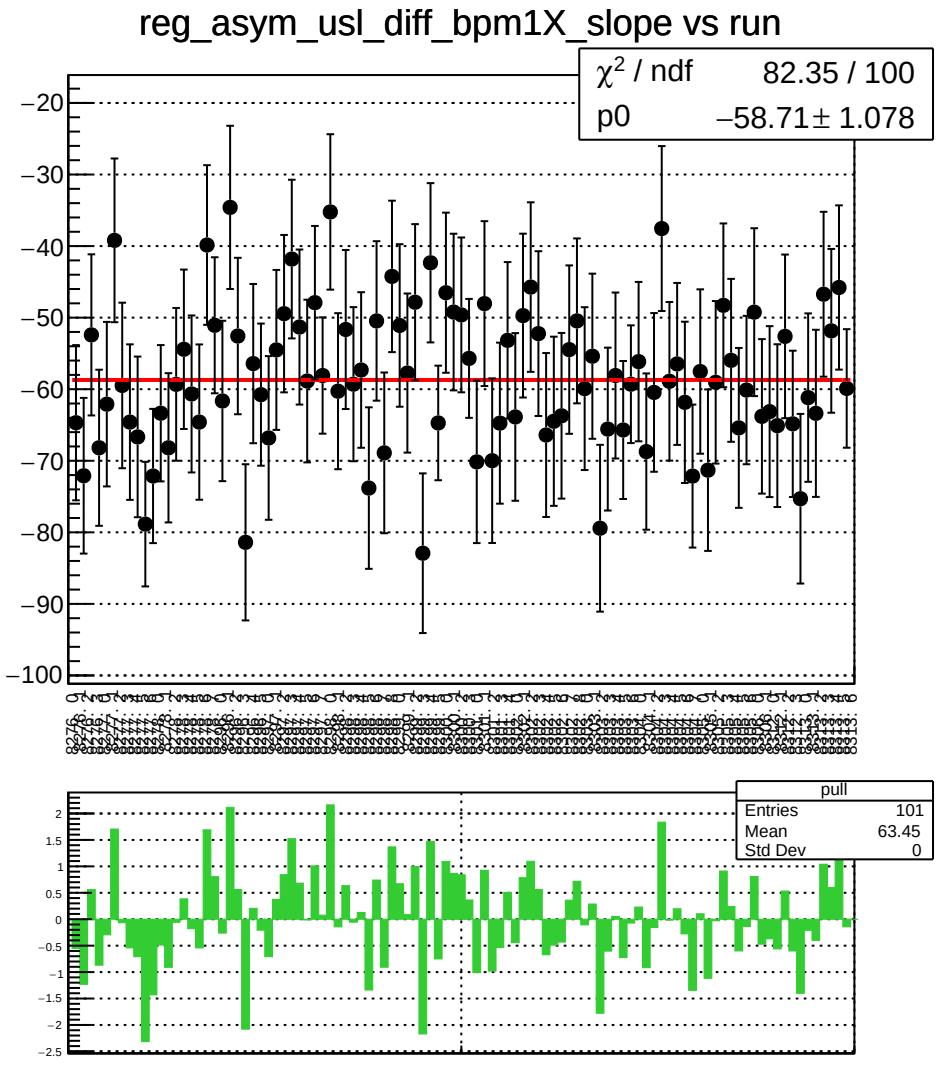

pull1D
Entries 101
Mean 0.00202
Std Dev 0.3627

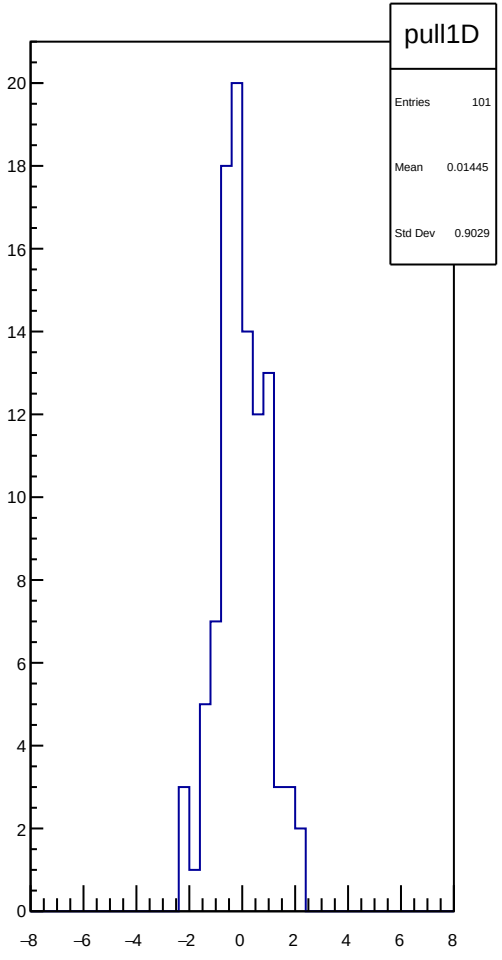

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 8.346 / 100
p0 −4.918 ± 0.6654
pull
Entries 101
Mean −454
Std Dev 0
pull1D
Entries 101
Mean 0.005341
Std Dev 0.2874

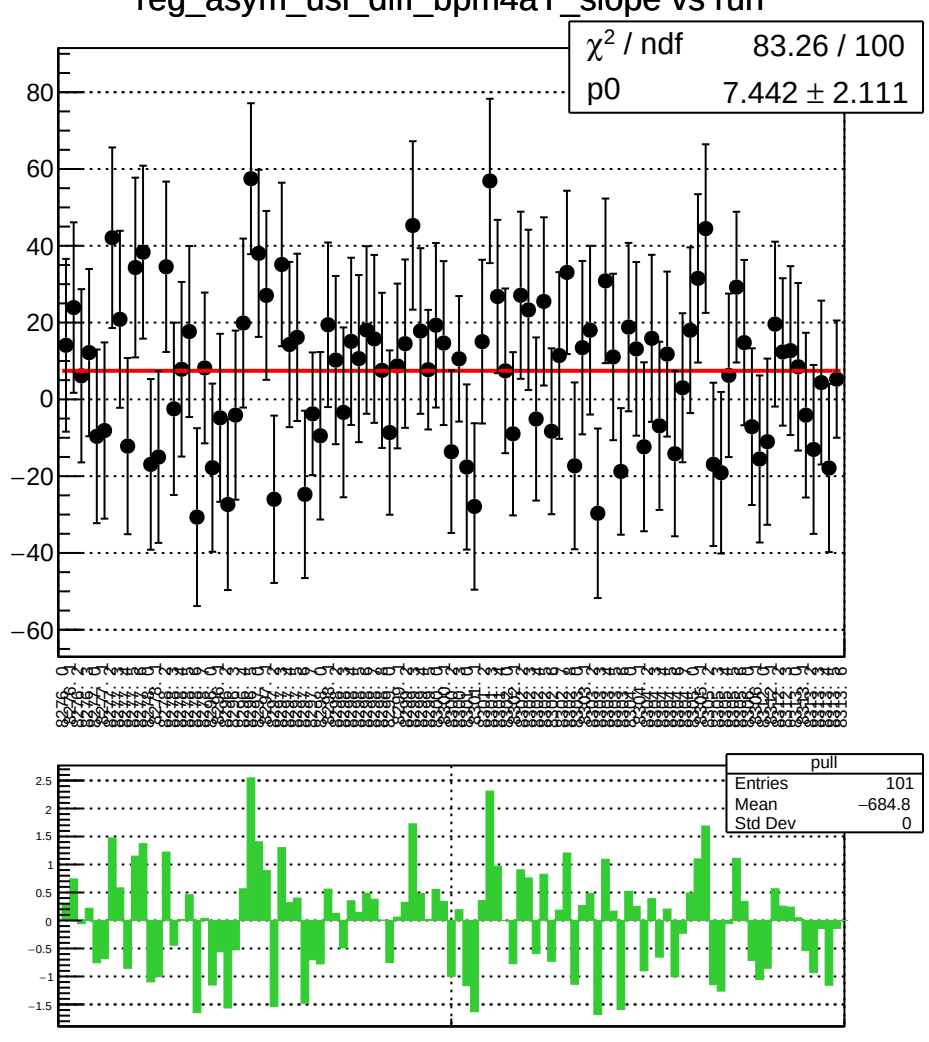

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 22.01 / 100
p0 −32.44 ± 0.3808
pull
Entries 101
Mean −915.8
Std Dev 0
pull1D
Entries 101
Mean −0.007743
Std Dev 0.4668

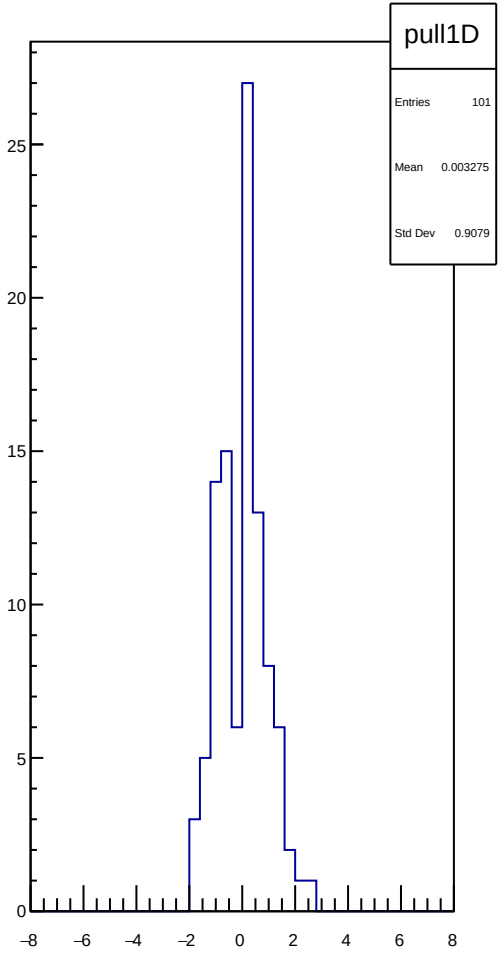

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 8.583 / 100
p0 0.5713 ± 0.6913
pull
Entries 101
Mean 173.8
Std Dev 0
pull1D
Entries 101
Mean 0.003012
Std Dev 0.2915

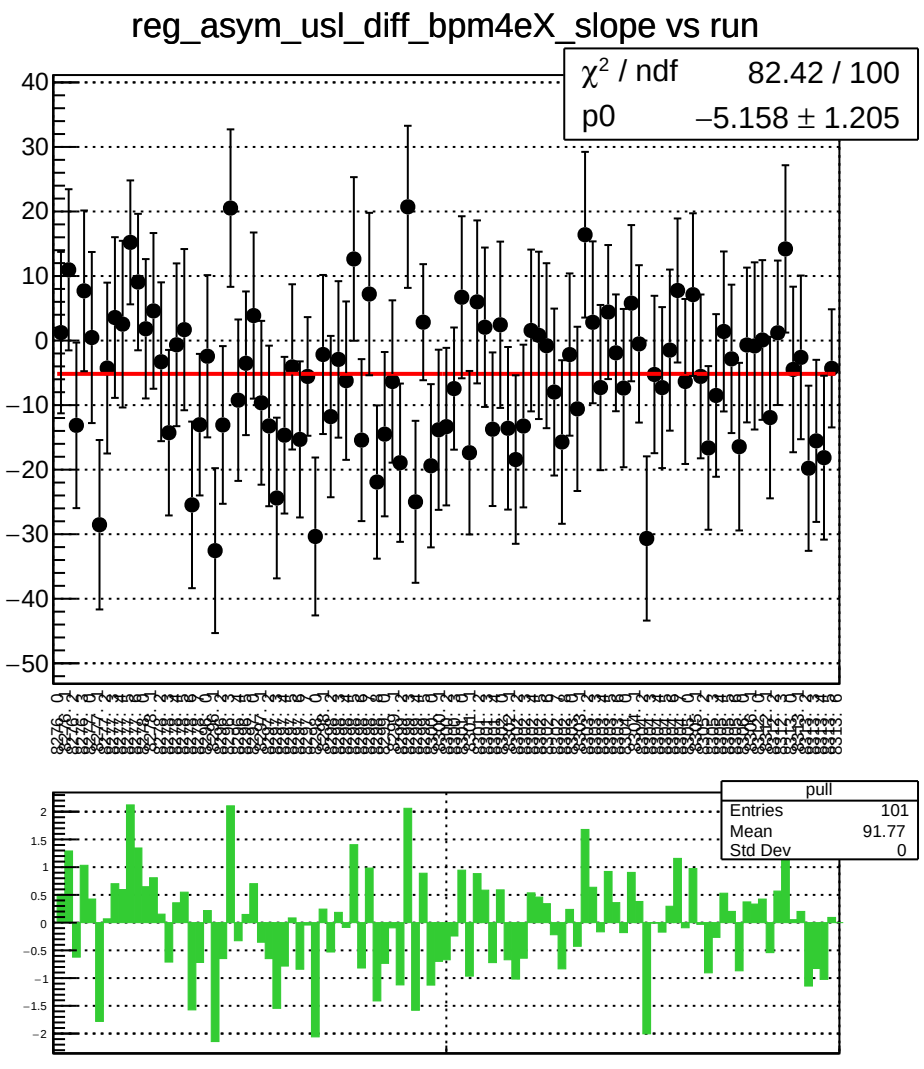

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 10.71 / 100
p0 0.2596 ± 0.03669
pull
Entries 101
Mean 28.46
Std Dev 91.02
pull1D
Entries 101
Mean 0.005523
Std Dev 0.3256

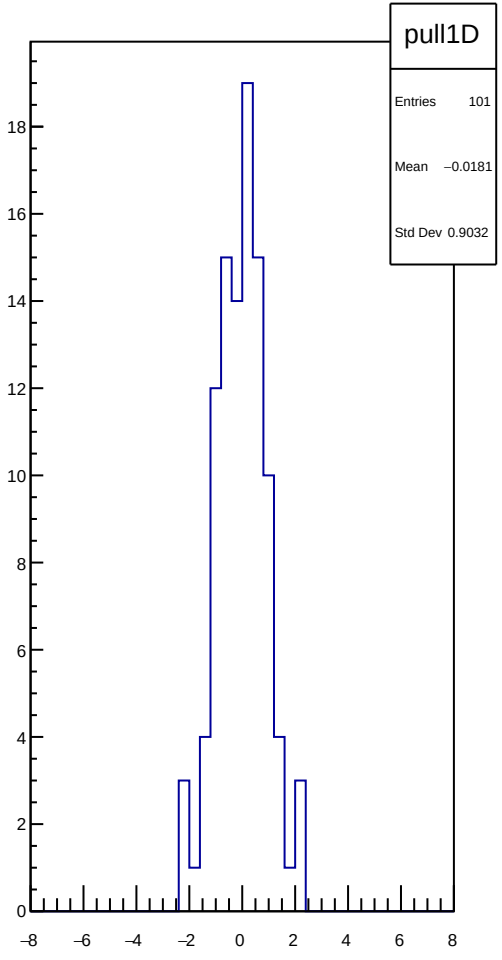

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 82.35 / 100
p0 −58.71 ± 1.078
pull
Entries 101
Mean 63.45
Std Dev 0

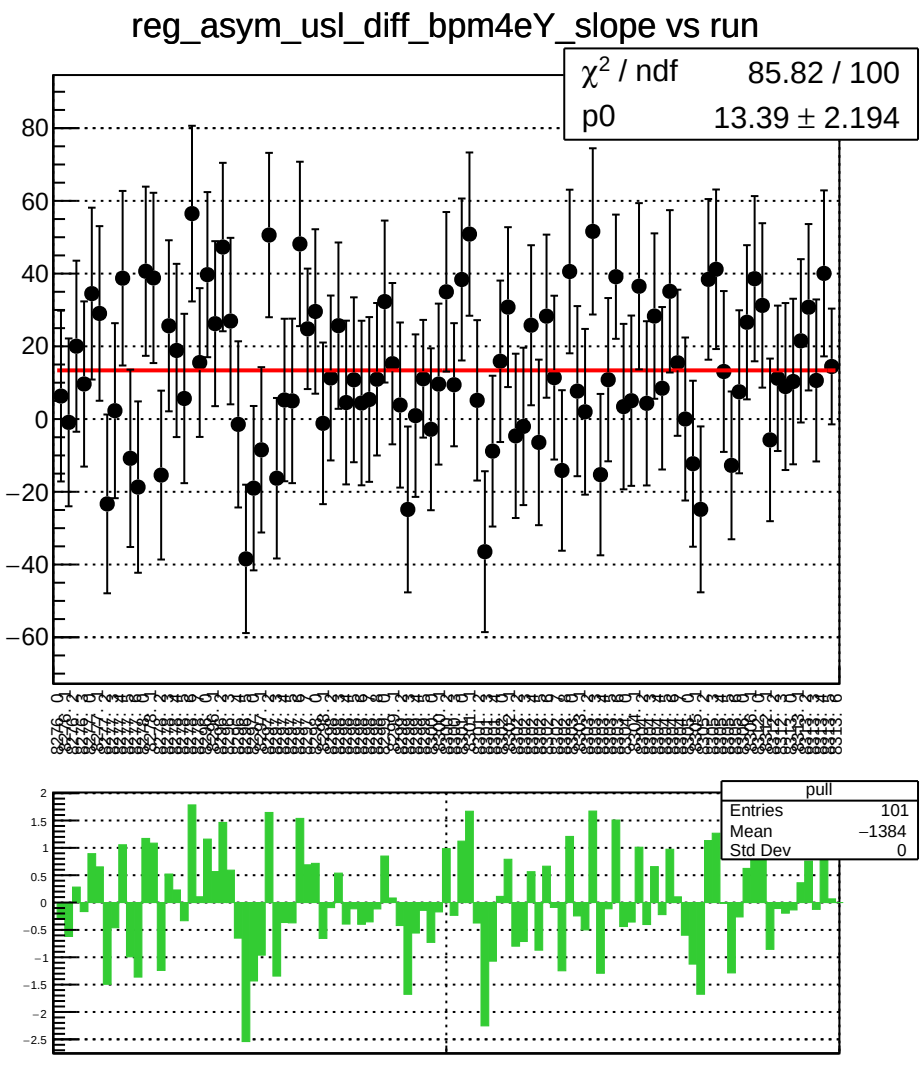

pull1D
Entries 101
Mean 0.01445
Std Dev 0.9029

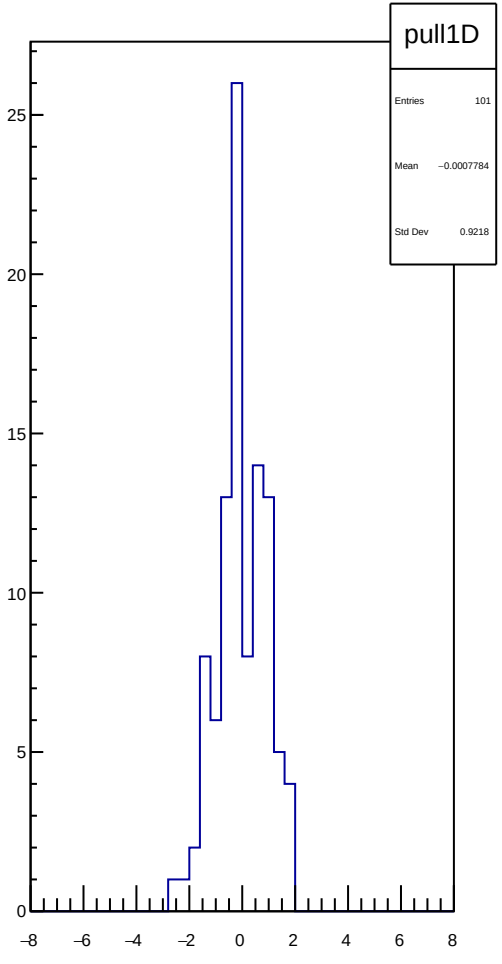

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 83.26 / 100
p0 7.442 ± 2.111
pull
Entries 101
Mean −684.8
Std Dev 0

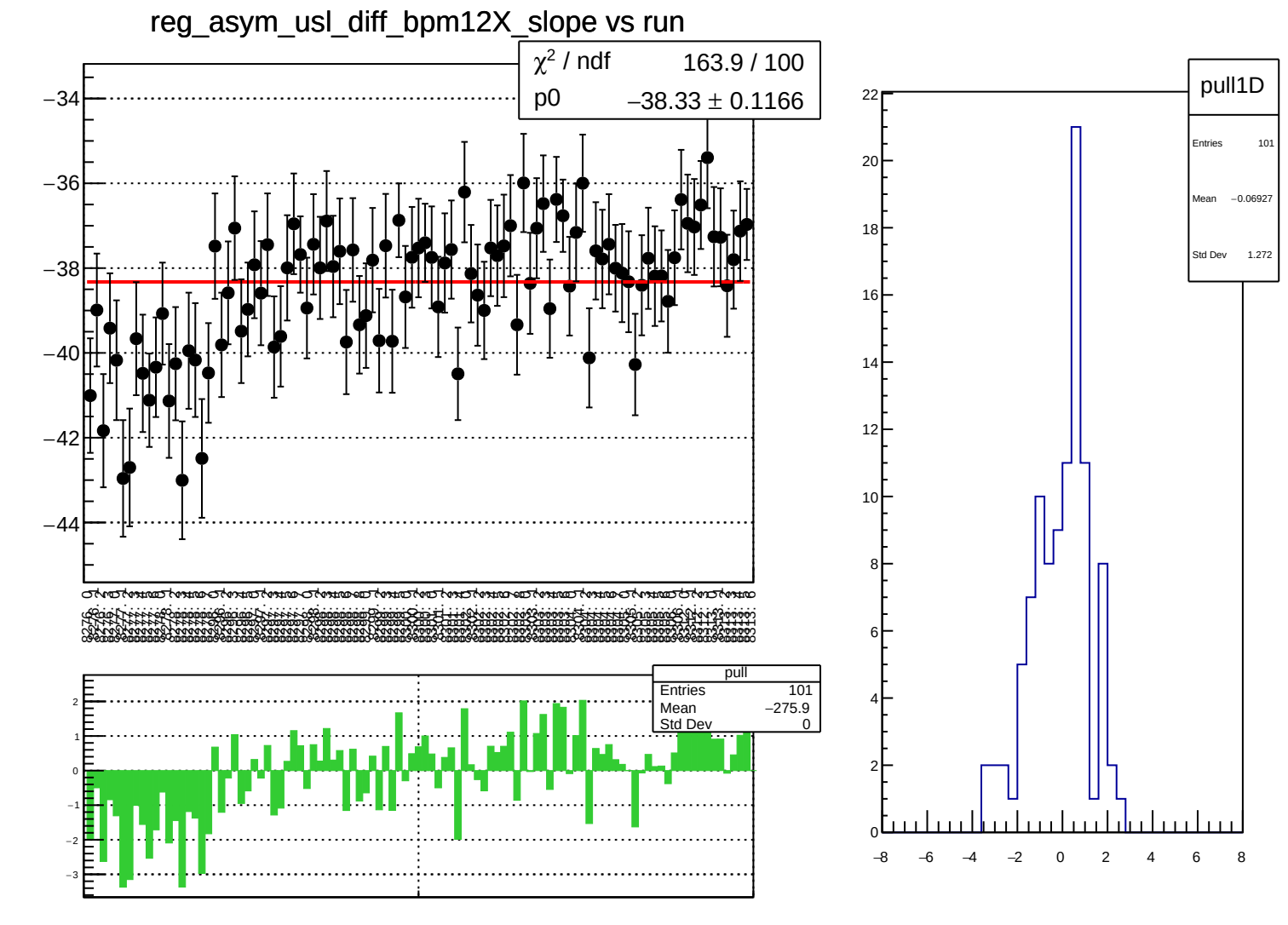

pull1D
Entries 101
Mean 0.003275
Std Dev 0.9079

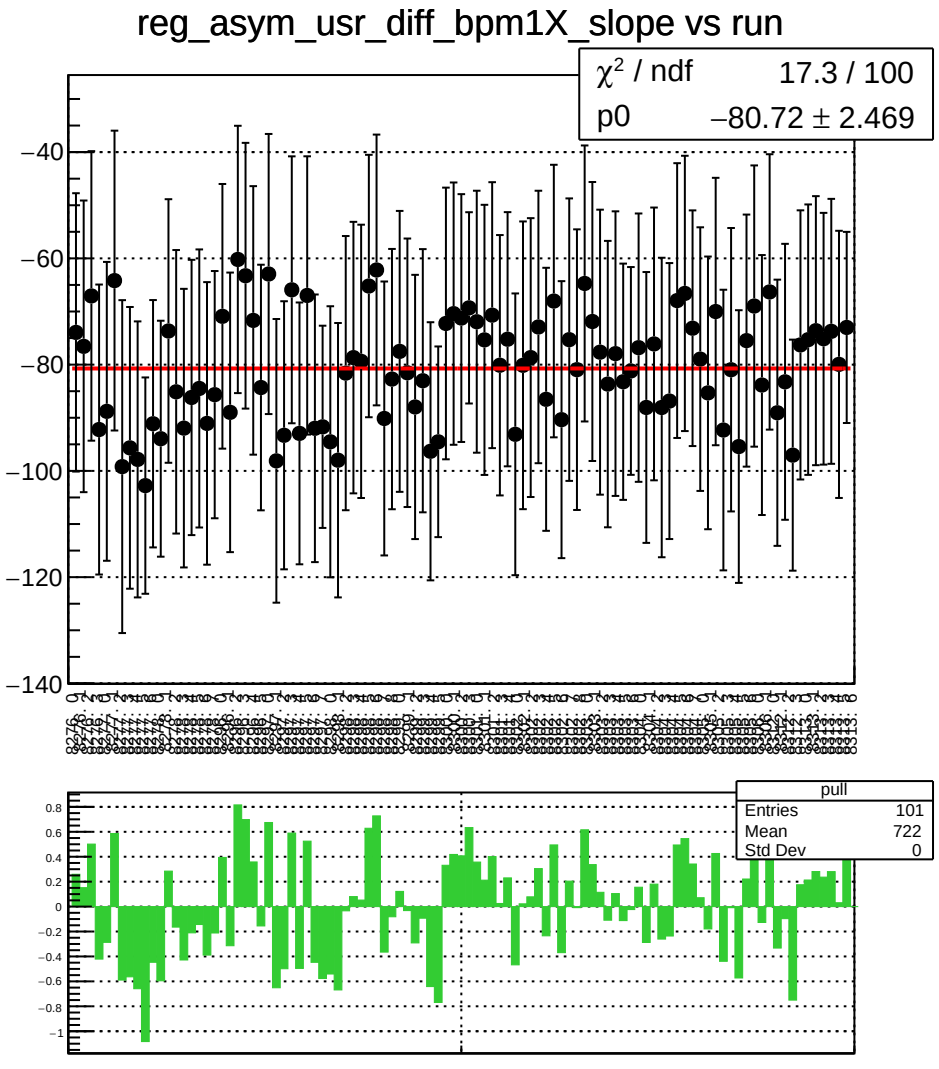

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 82.42 / 100
p0 −5.158 ± 1.205
pull
Entries 101
Mean 91.77
Std Dev 0

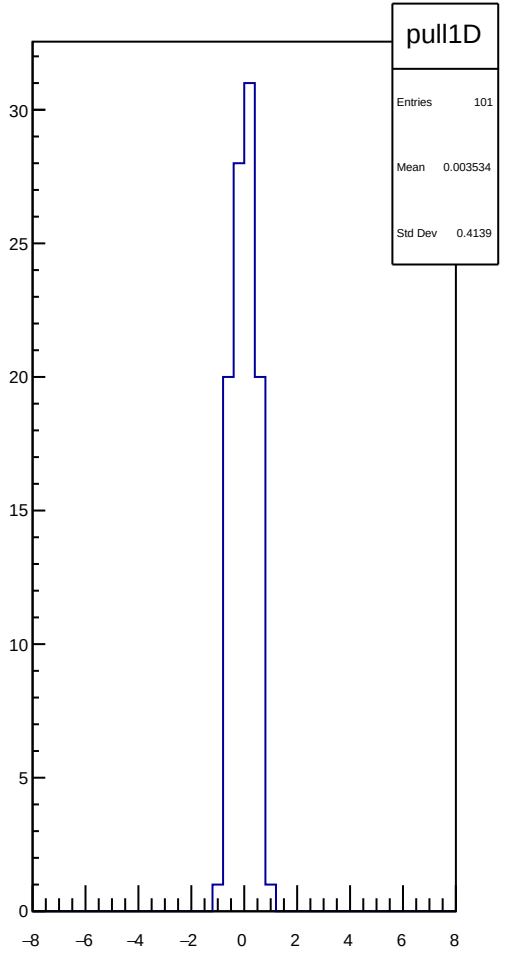

pull1D
Entries 101
Mean −0.0181
Std Dev 0.9032

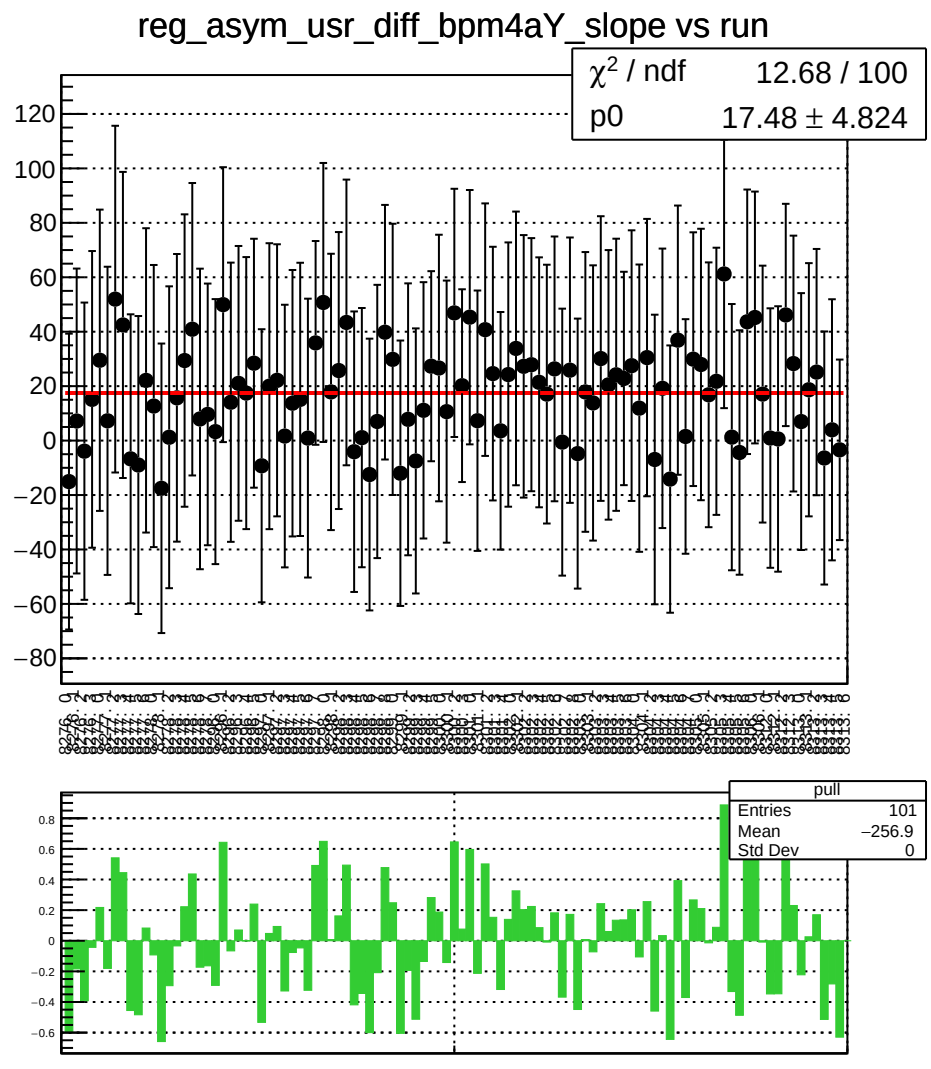

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 85.82 / 100
p0 13.39 ± 2.194
pull
Entries 101
Mean −1384
Std Dev 0

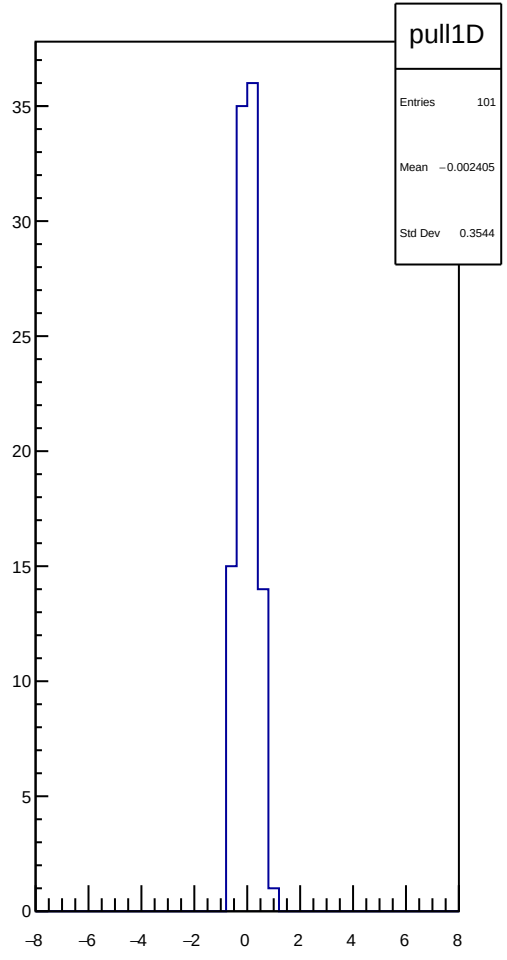

pull1D
Entries 101
Mean −0.0007784
Std Dev 0.9218

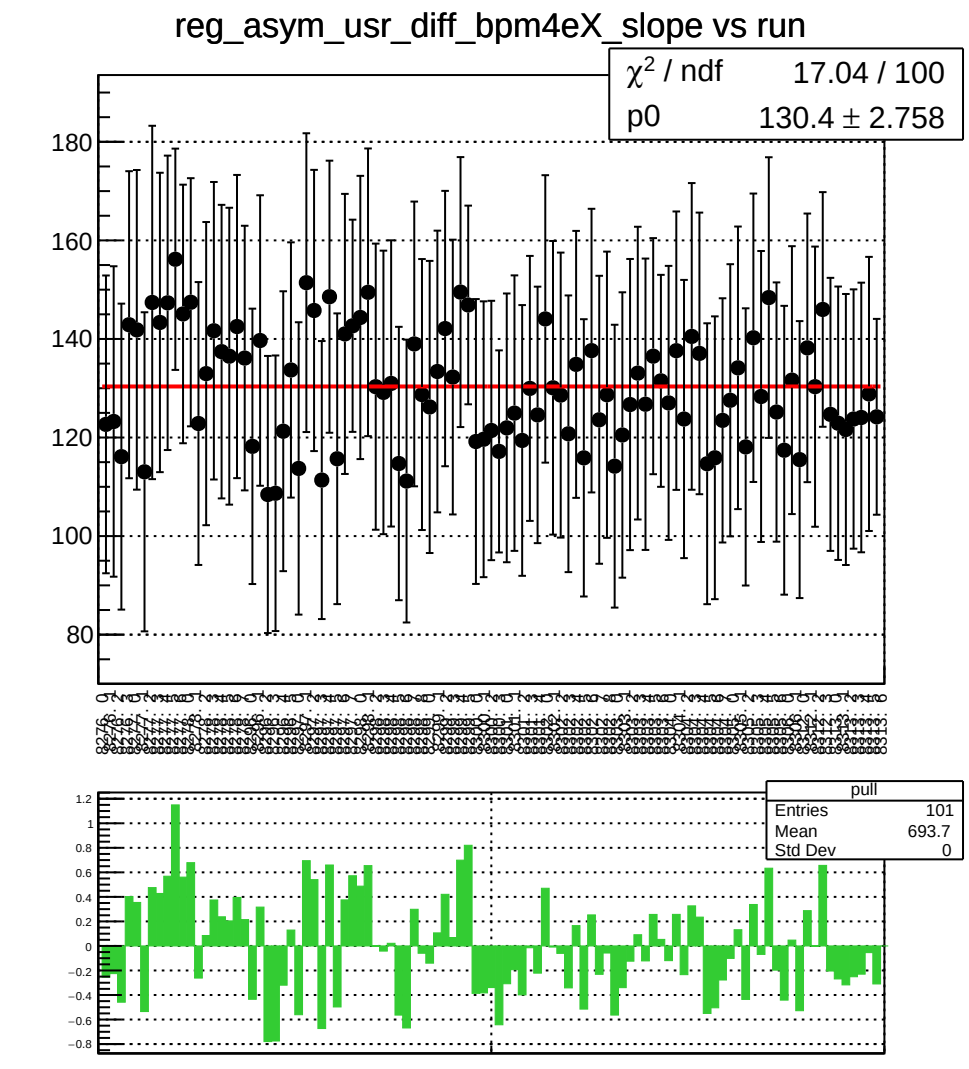

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 163.9 / 100
p0 −38.33 ± 0.1166
pull
Entries 101
Mean −275.9
Std Dev 0
pull1D
Entries 101
Mean −0.06927
Std Dev 1.272

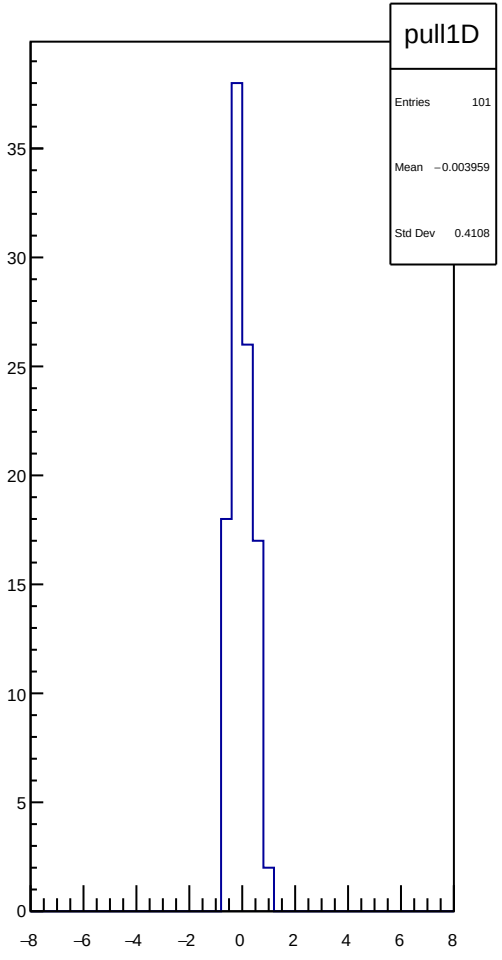

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 17.3 / 100
p0 −80.72 ± 2.469
−40
−60
−80
−100
−120
−140
pull
Entries 101
Mean 722
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

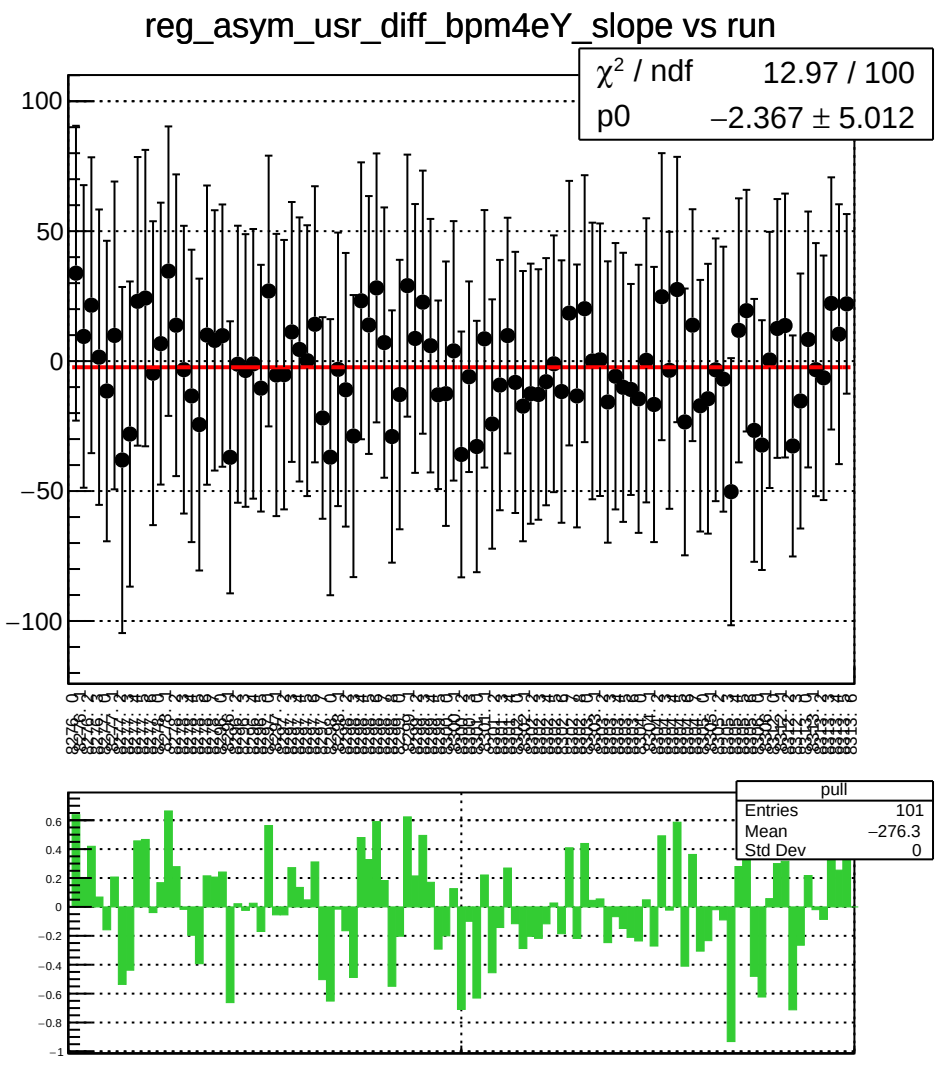

pull1D
Entries 101
Mean 0.003534
Std Dev 0.4139
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

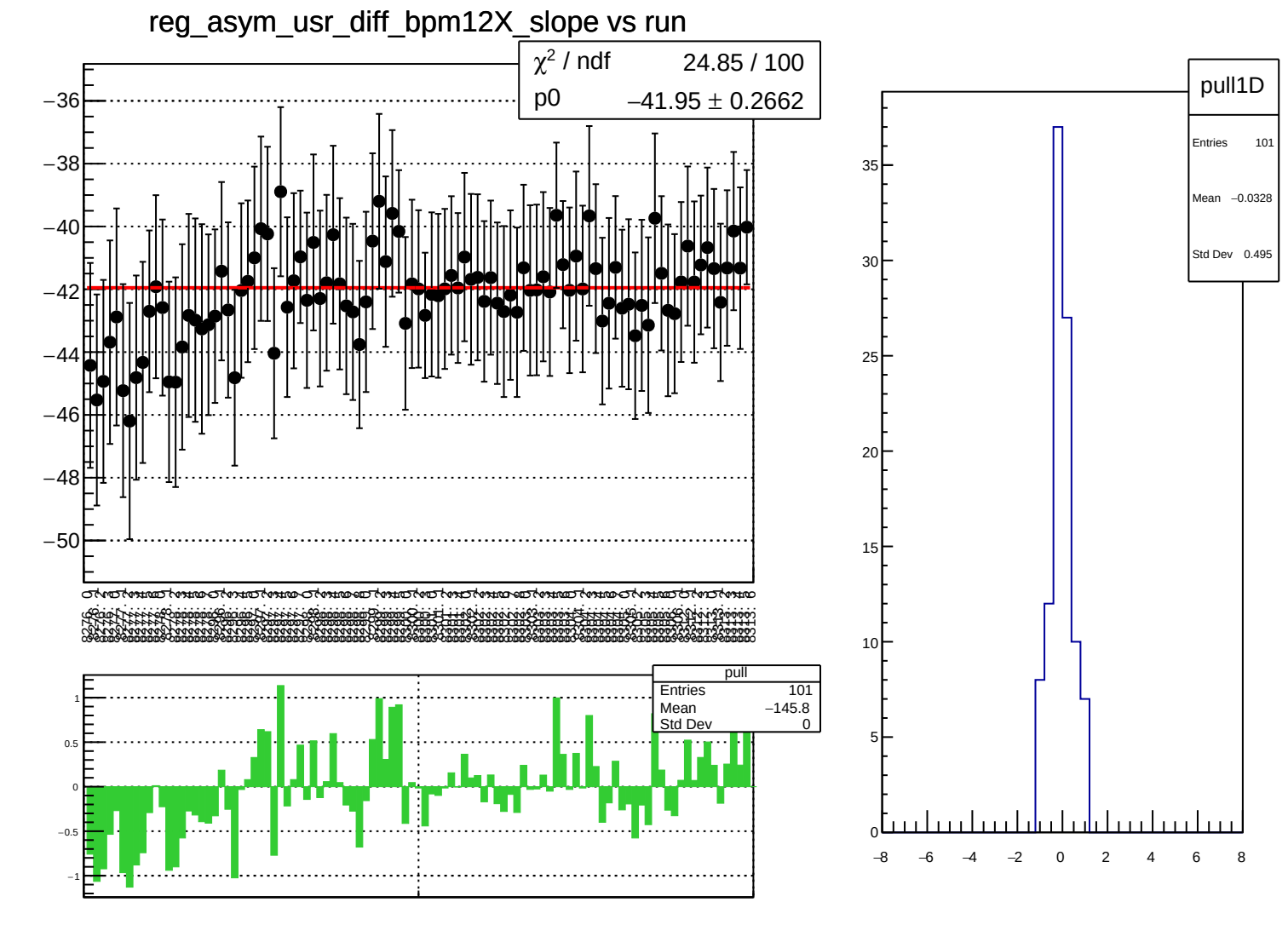

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 12.68 / 100
p0 17.48 ± 4.824
pull
Entries 101
Mean −256.9
Std Dev 0

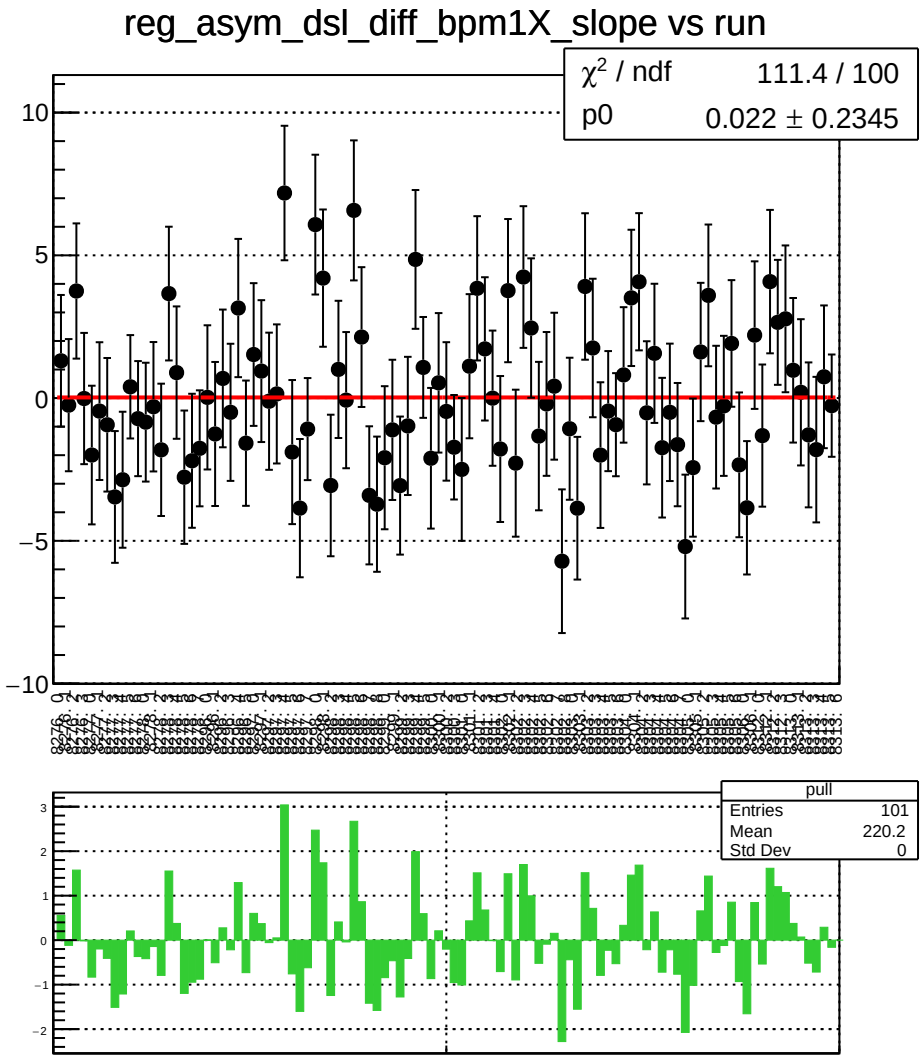

pull1D
Entries 101
Mean −0.002405
Std Dev 0.3544

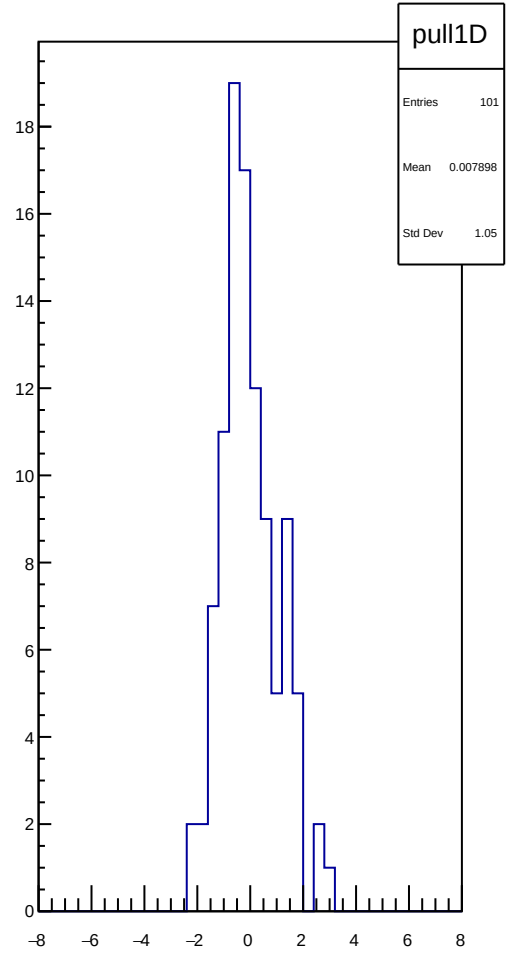

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 17.04 / 100
p0 130.4 ± 2.758
pull
Entries 101
Mean 693.7
Std Dev 0

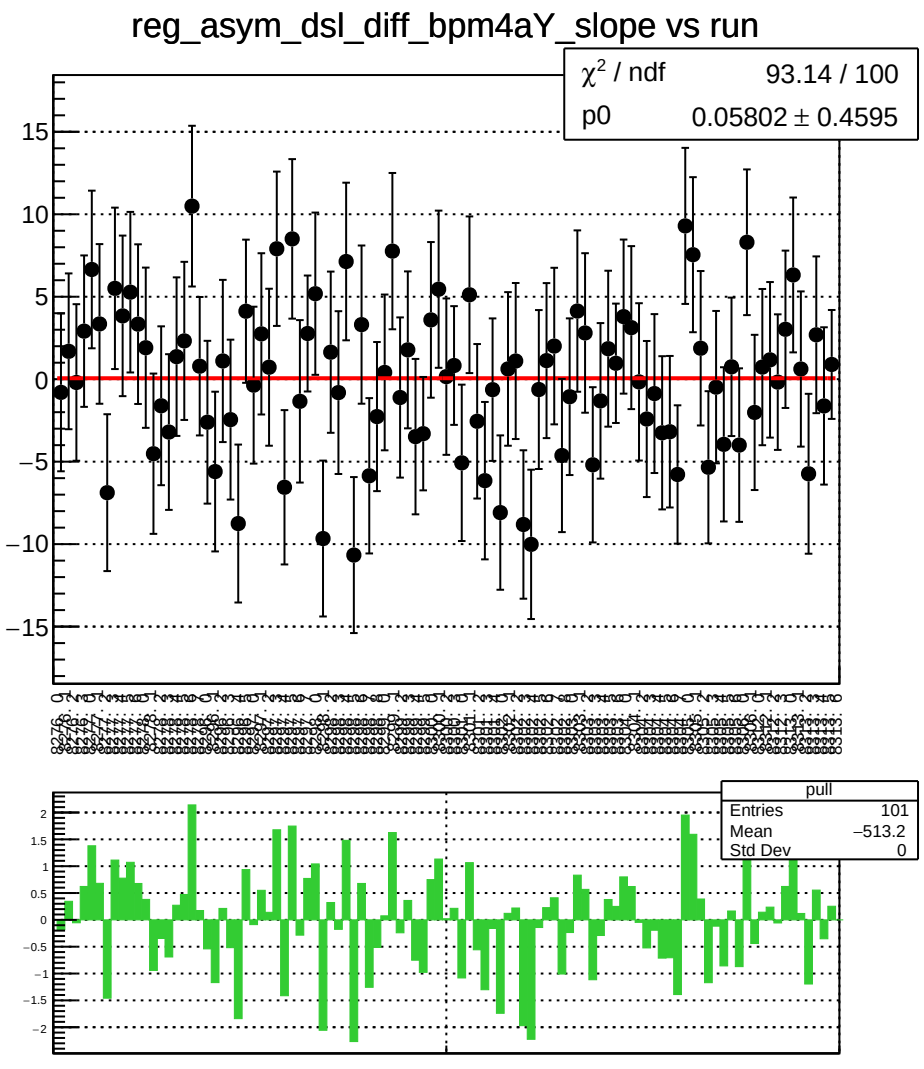

pull1D
Entries 101
Mean −0.003959
Std Dev 0.4108

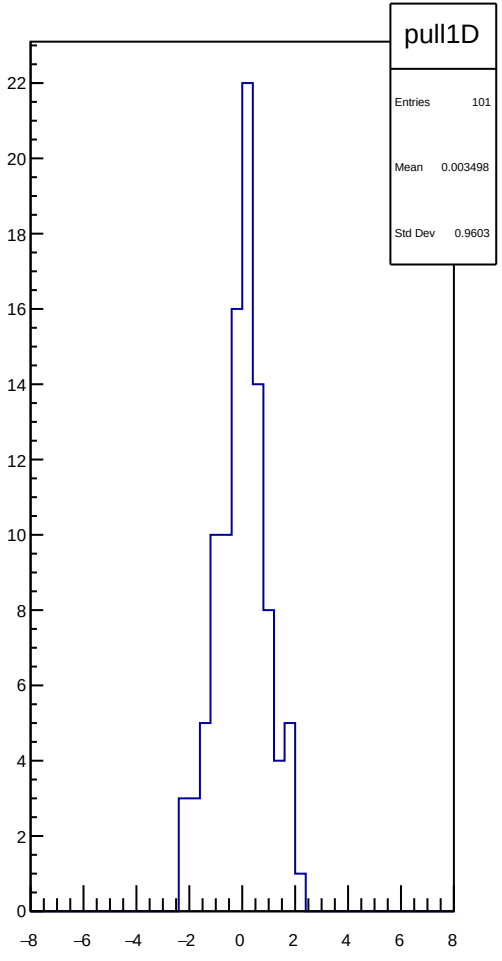

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 12.97 / 100
p0 −2.367 ± 5.012
pull
Entries 101
Mean −276.3
Std Dev 0
pull1D
Entries 101
Mean 0.003076
Std Dev 0.3583

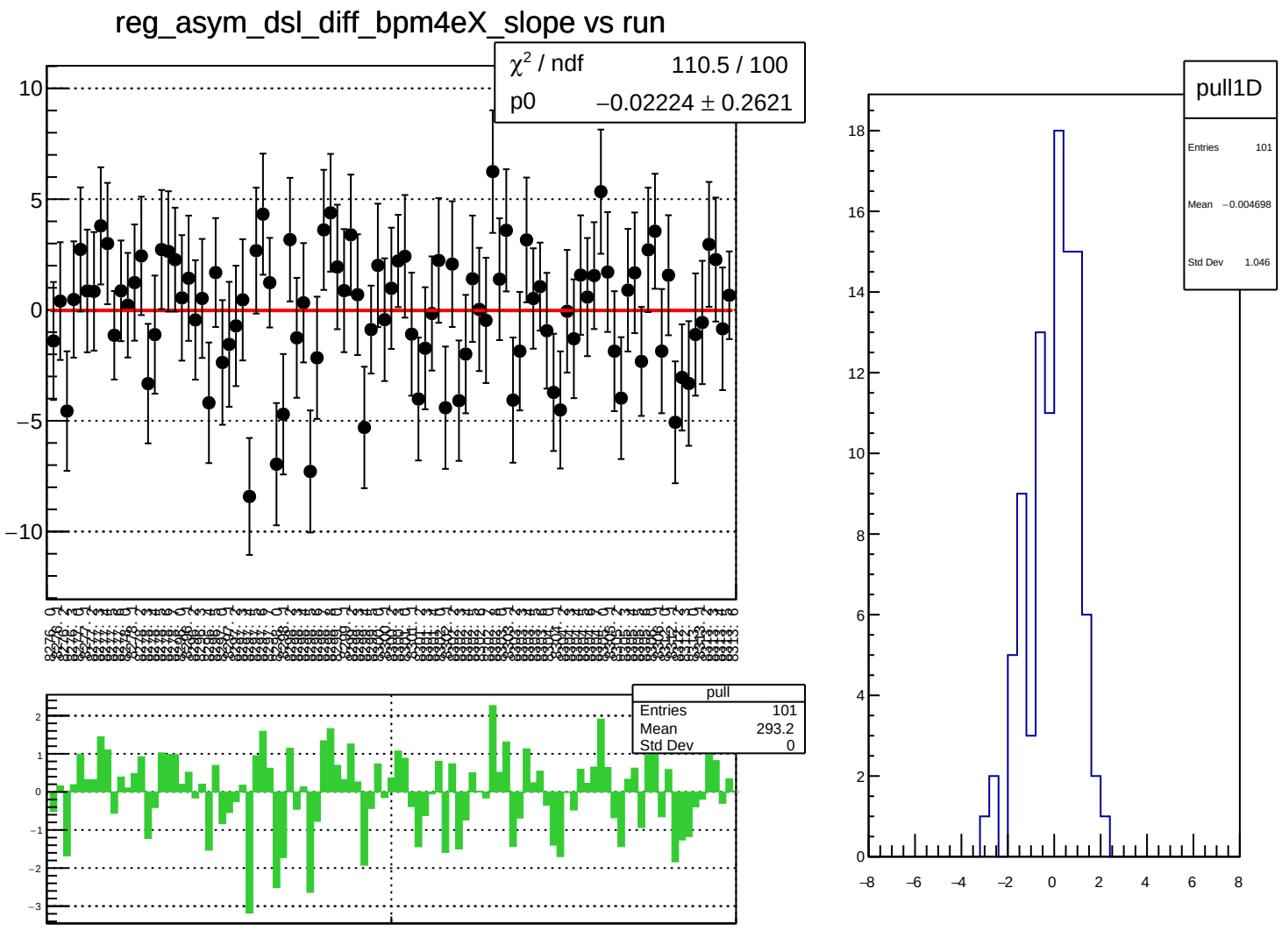

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 24.85 / 100
p0 −41.95 ± 0.2662
pull
Entries 101
Mean −145.8
Std Dev 0
pull1D
Entries 101
Mean −0.0328
Std Dev 0.495

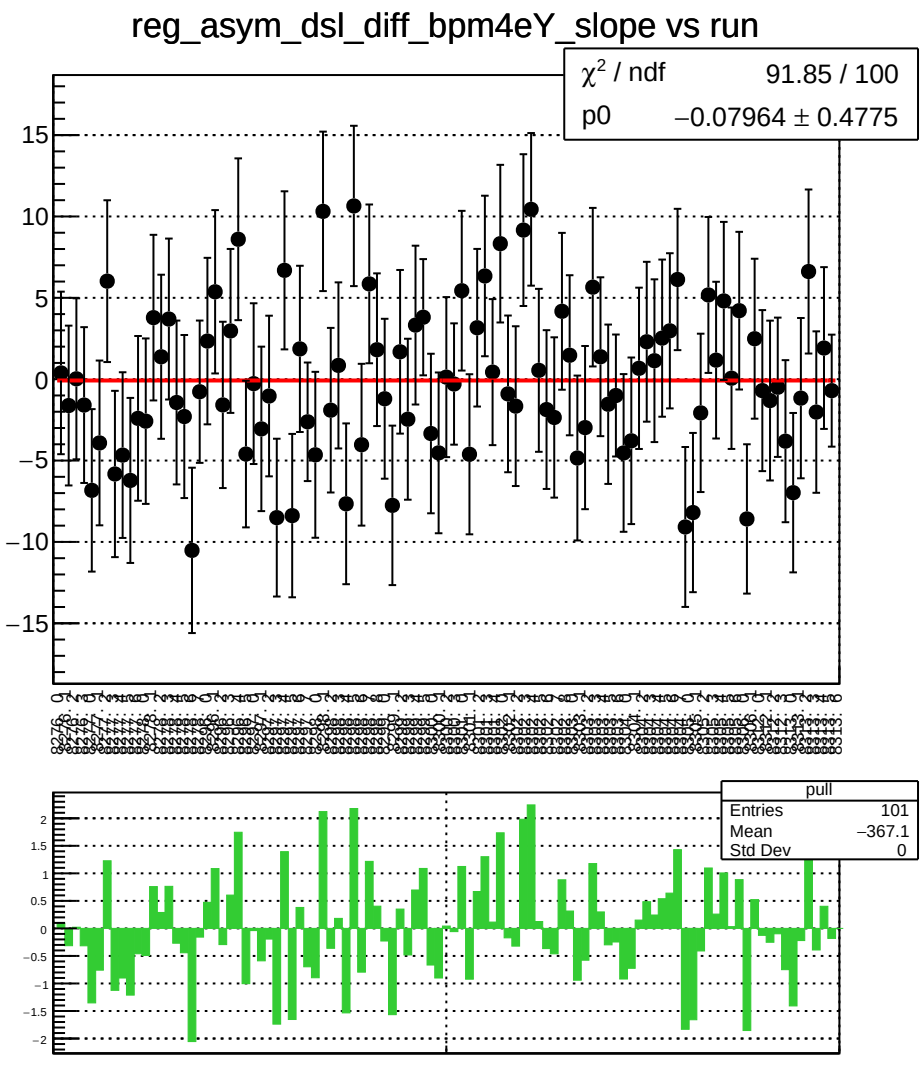

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 111.4 / 100
p0 0.022 ± 0.2345
pull
Entries 101
Mean 220.2
Std Dev 0

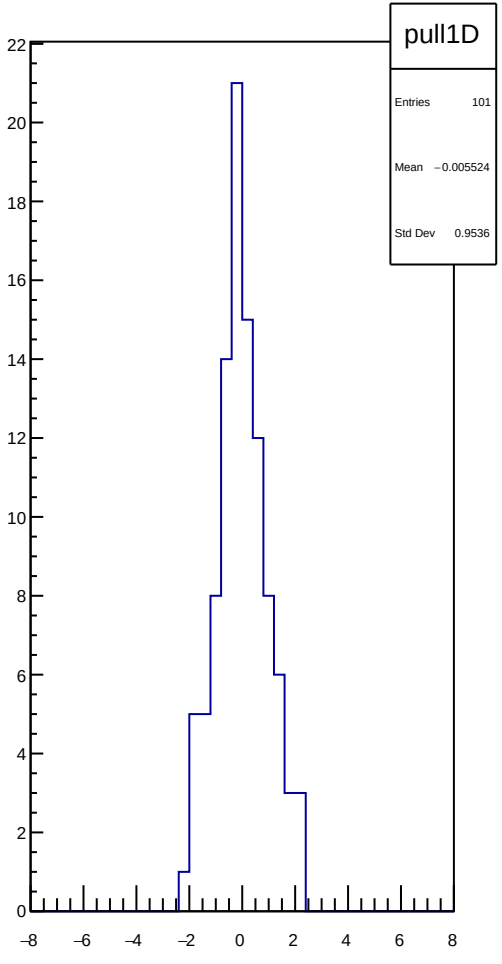

pull1D
Entries 101
Mean 0.007898
Std Dev 1.05

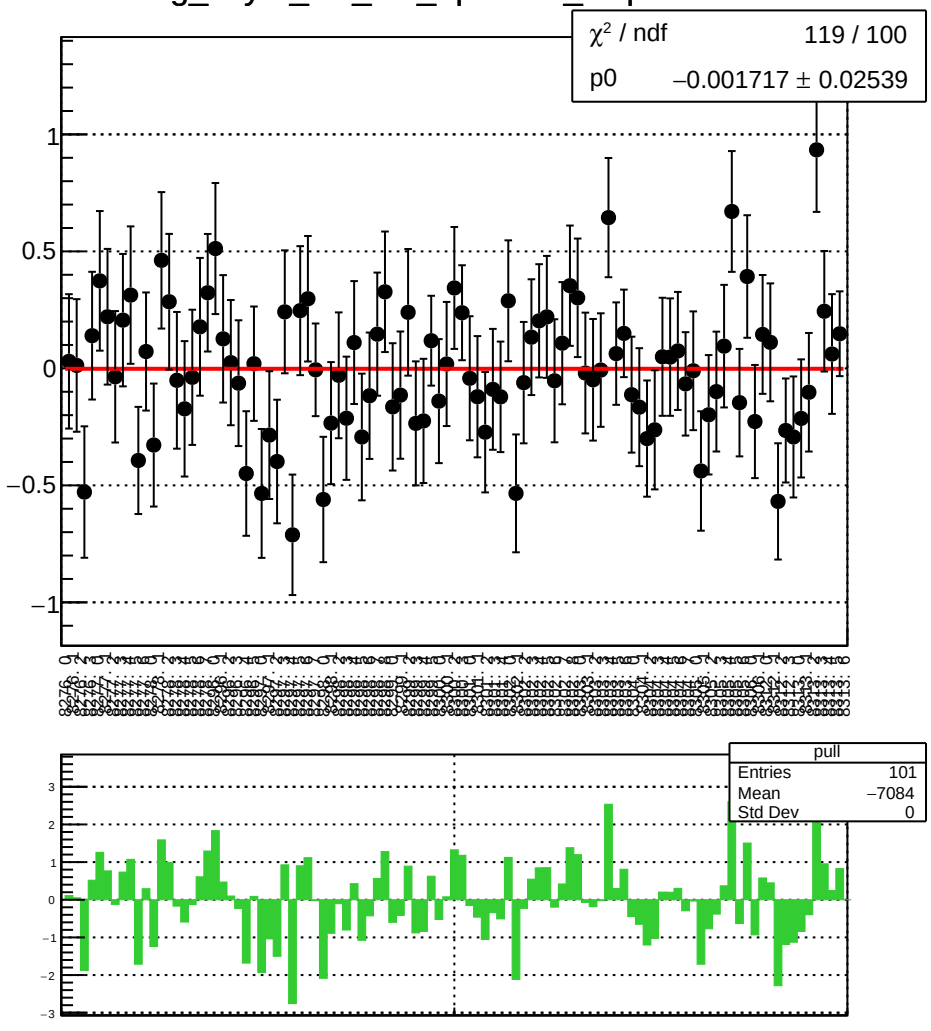

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 93.14 / 100
p0 0.05802 ± 0.4595
pull
Entries 101
Mean −513.2
Std Dev 0

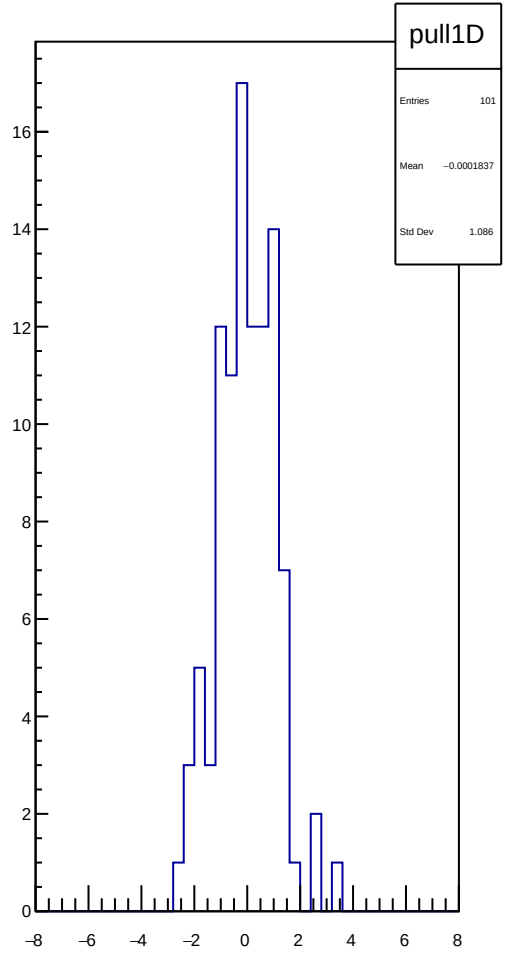

pull1D
Entries 101
Mean 0.003498
Std Dev 0.9603

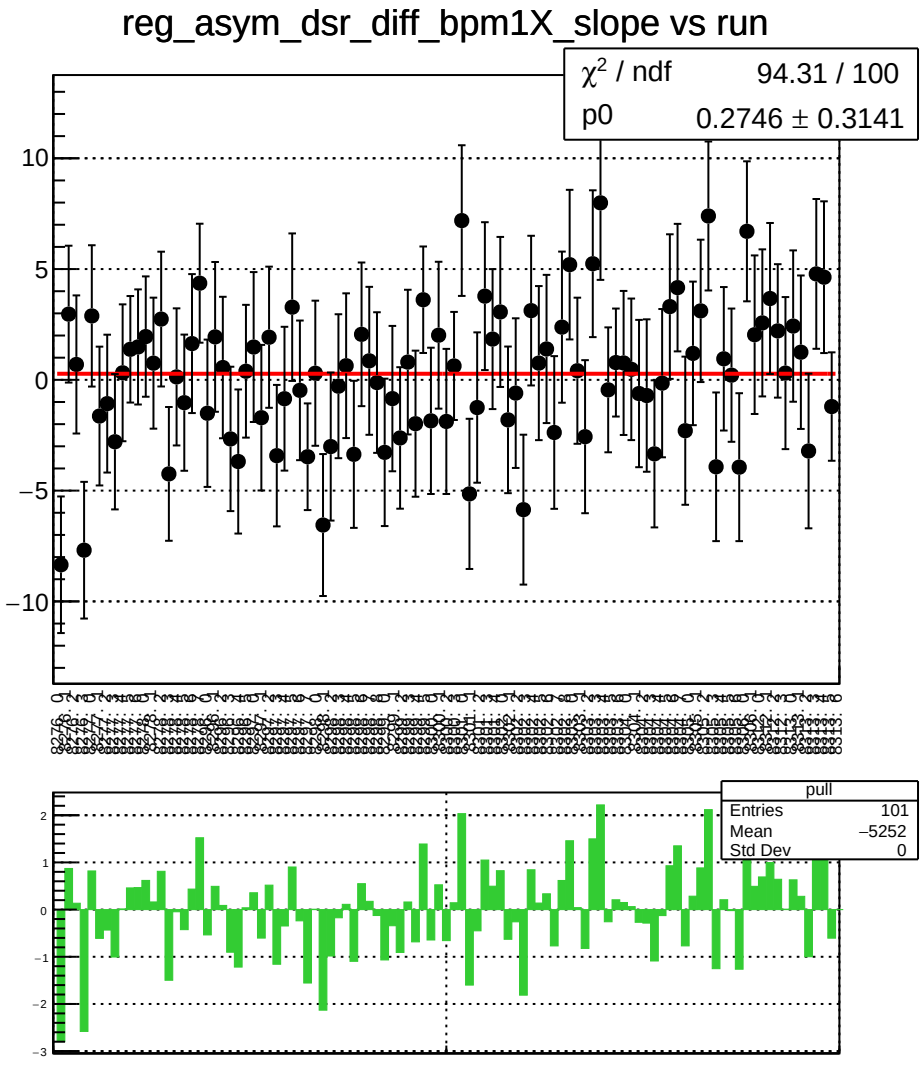

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 110.5 / 100
p0 −0.02224 ± 0.2621
pull
Entries 101
Mean 293.2
Std Dev 0
pull1D
Entries 101
Mean −0.004698
Std Dev 1.046

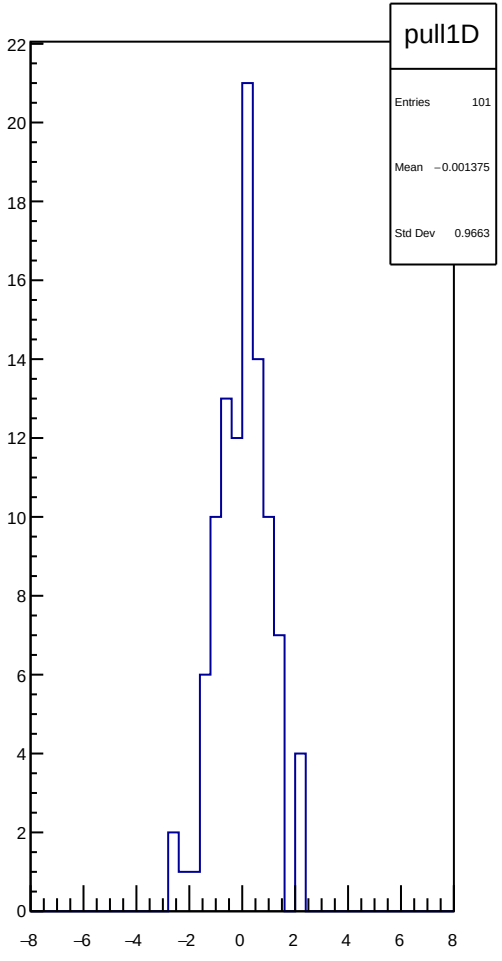

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 91.85 / 100
p0 −0.07964 ± 0.4775
pull
Entries 101
Mean −367.1
Std Dev 0

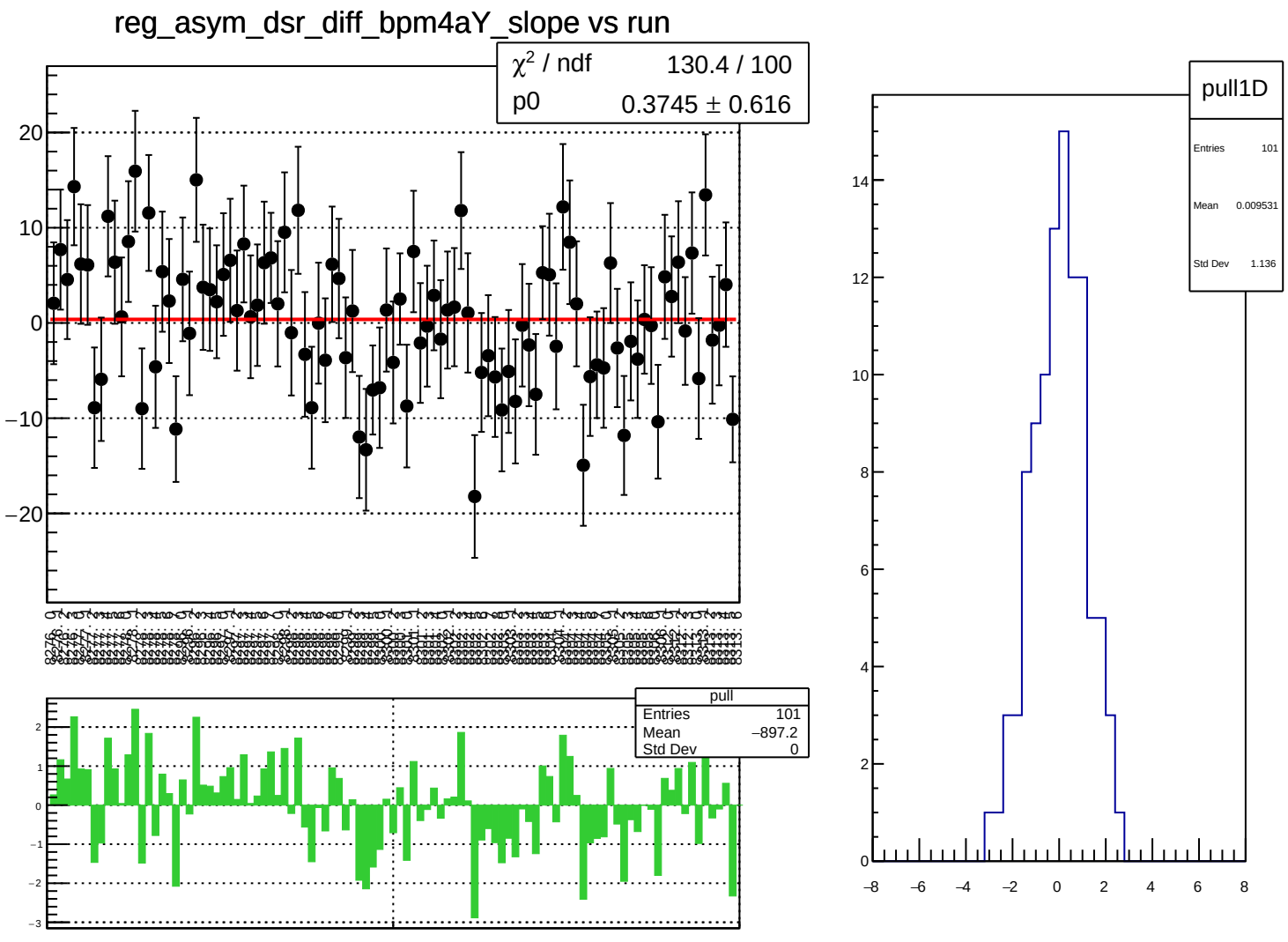

pull1D
Entries 101
Mean −0.005524
Std Dev 0.9536

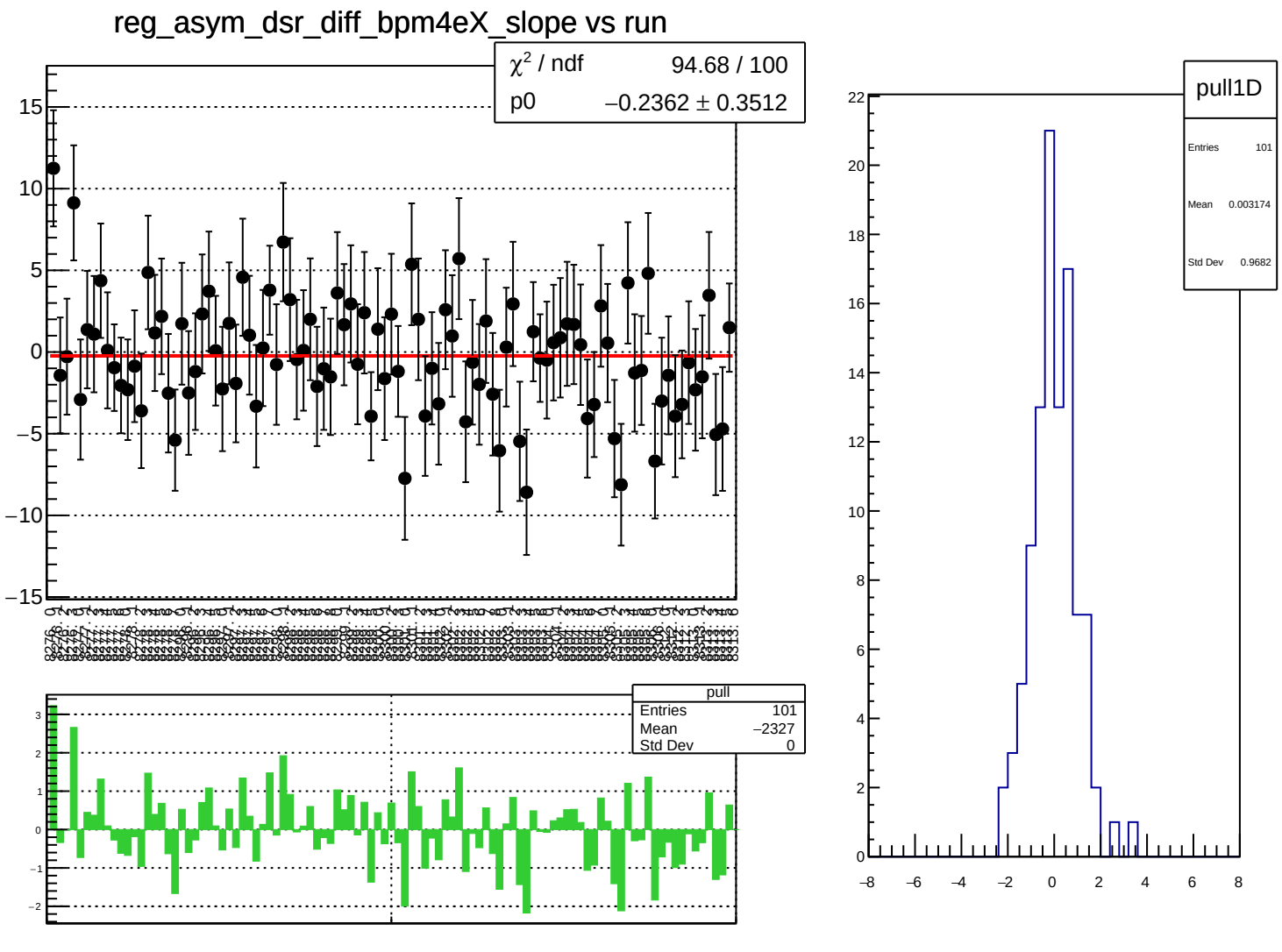

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 119 / 100
p0 −0.001717 ± 0.02539
pull
Entries 101
Mean −7084
Std Dev 0

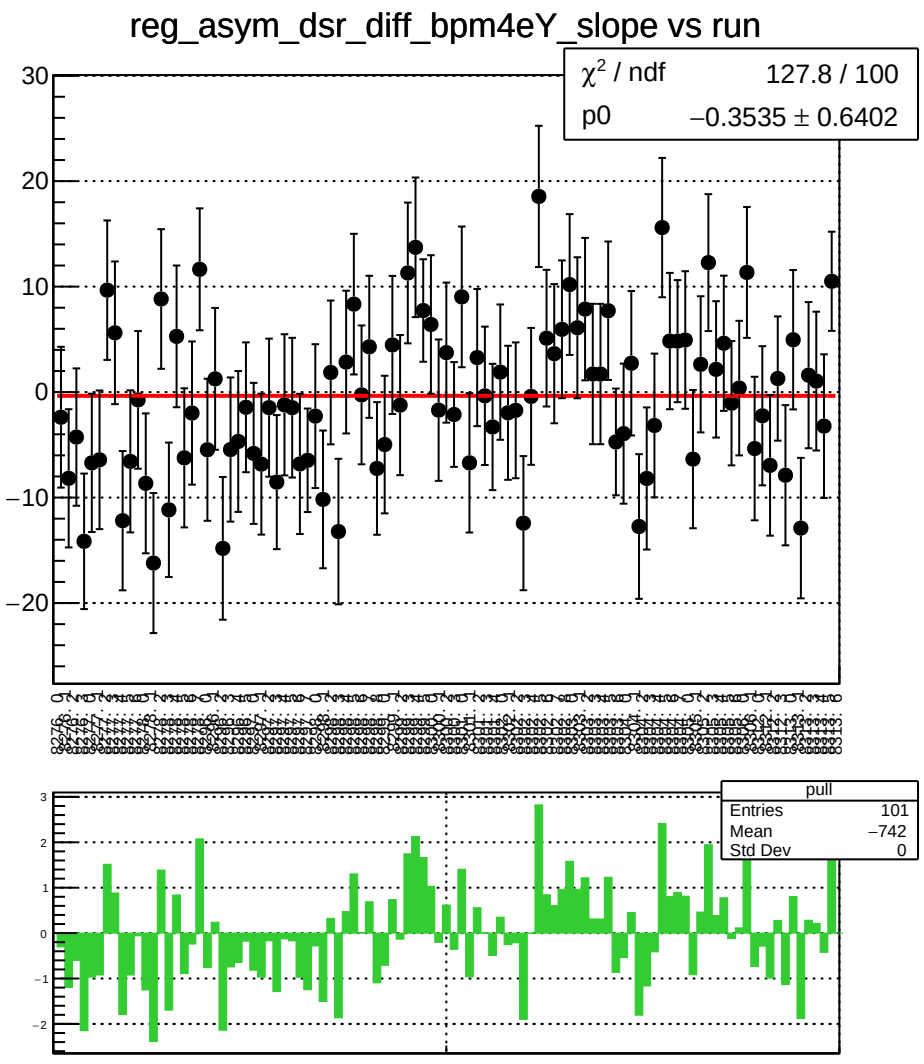

pull1D
Entries 101
Mean −0.0001837
Std Dev 1.086

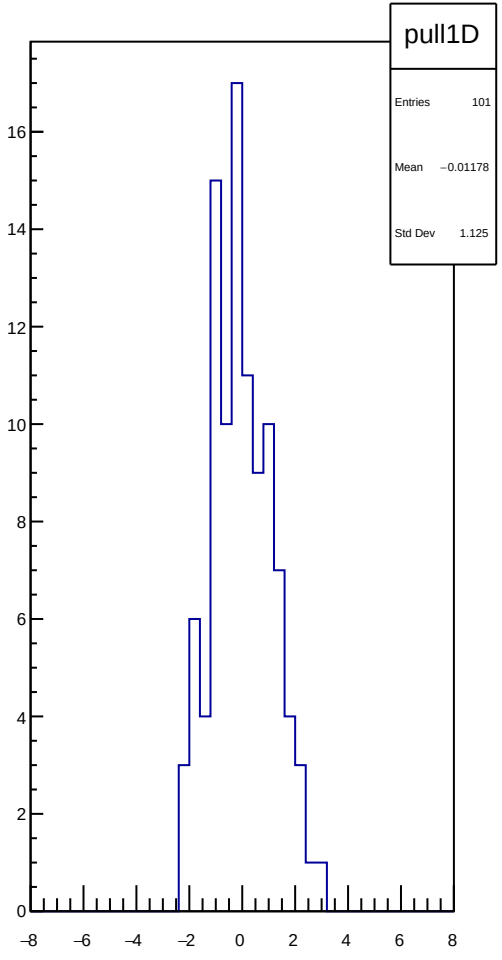

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 94.31 / 100
p0 0.2746 ± 0.3141
pull
Entries 101
Mean −5252
Std Dev 0

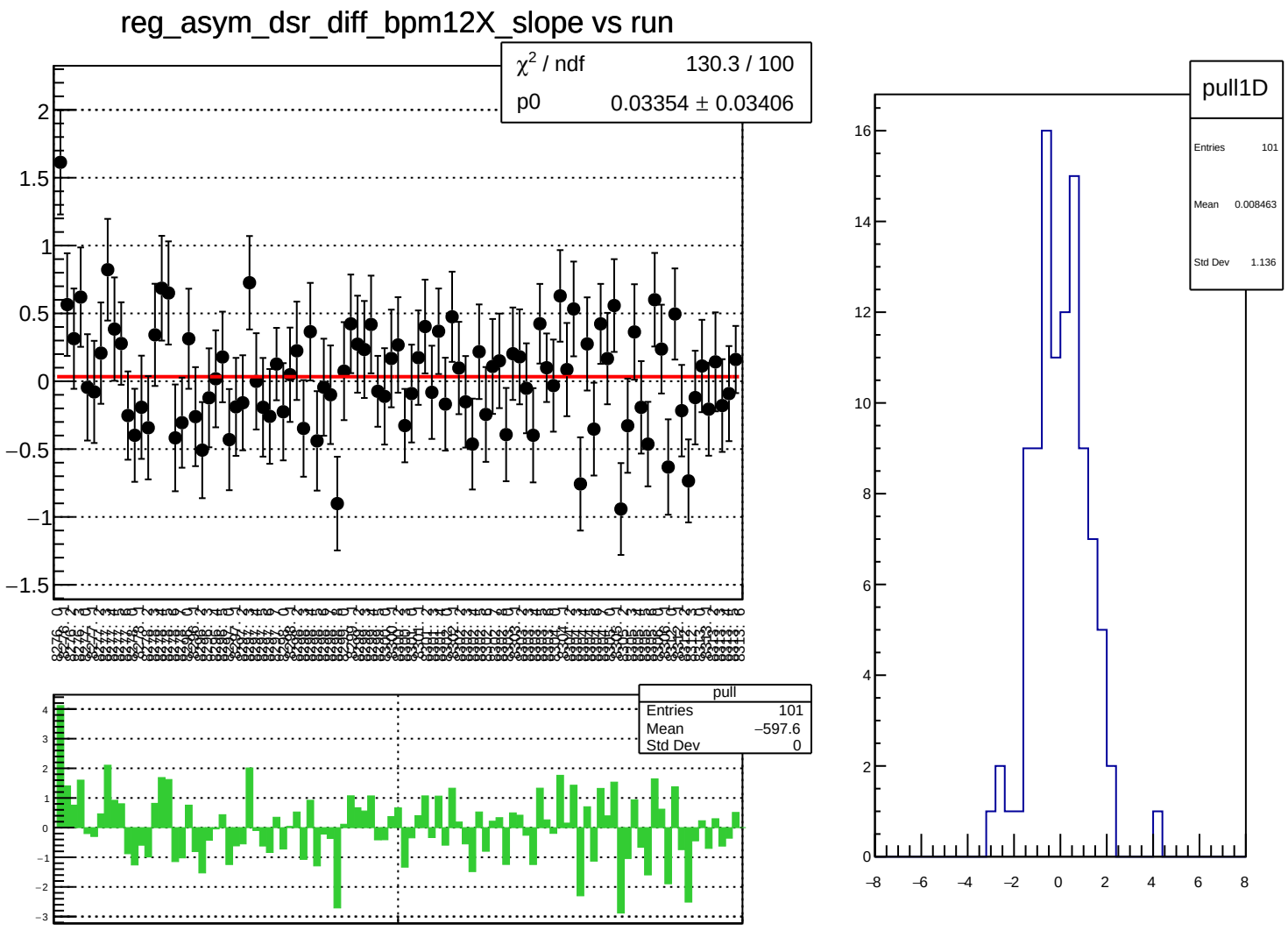

pull1D
Entries 101
Mean −0.001375
Std Dev 0.9663

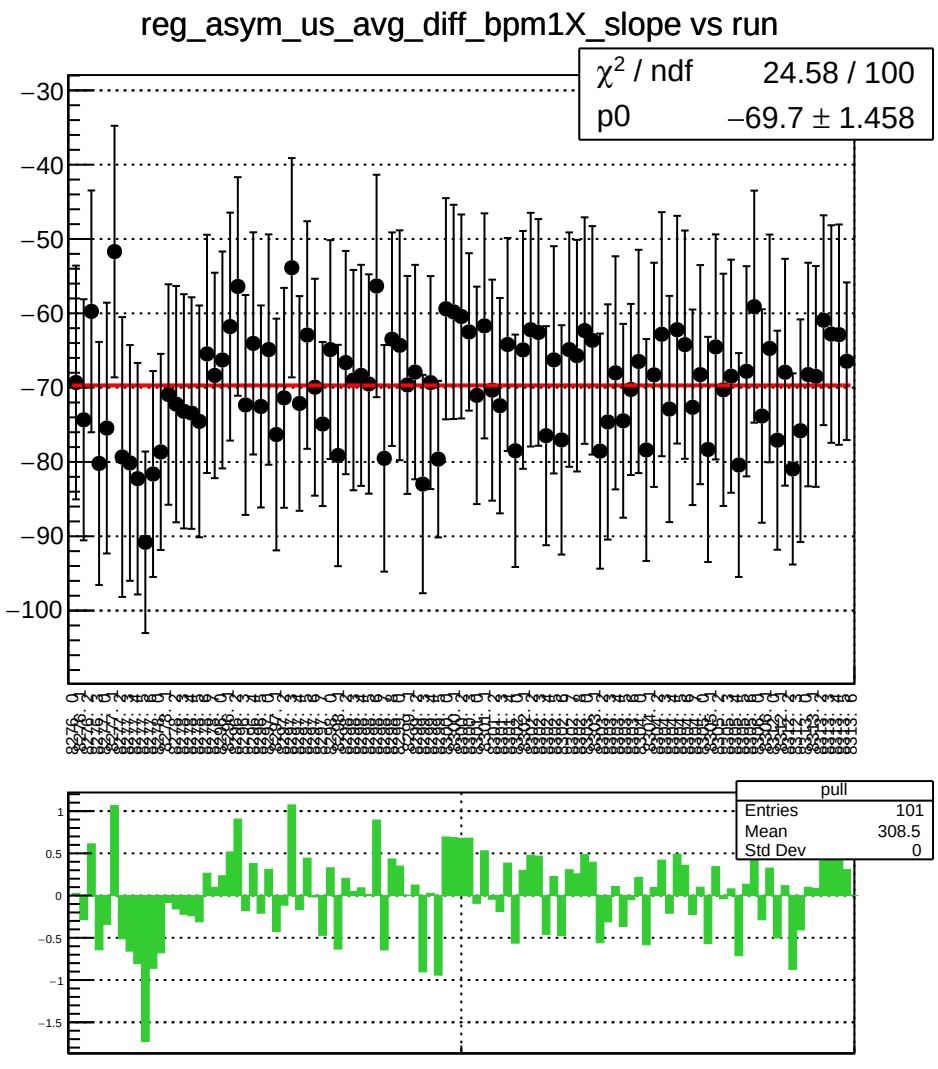

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 130.4 / 100
p0 0.3745 ± 0.616
pull
Entries 101
Mean −897.2
Std Dev 0
pull1D
Entries 101
Mean 0.009531
Std Dev 1.136

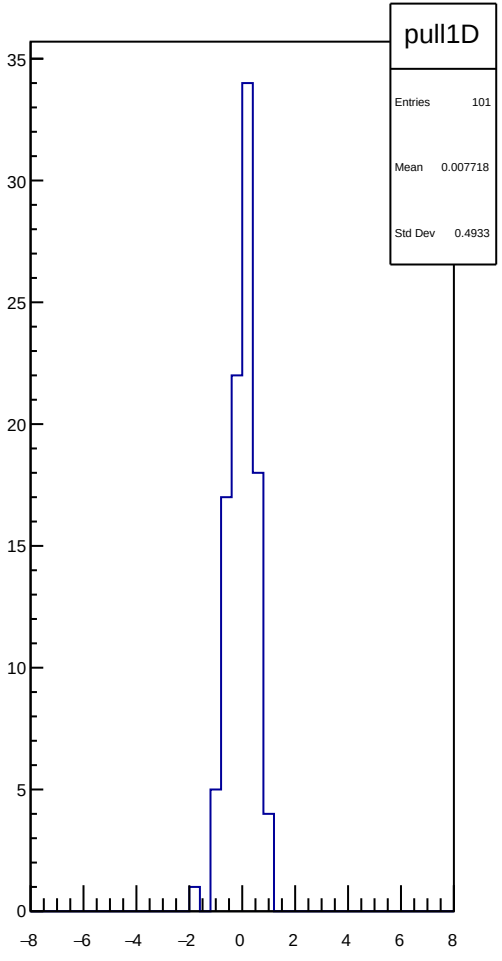

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 94.68 / 100
p0 −0.2362 ± 0.3512
pull
Entries 101
Mean −2327
Std Dev 0
pull1D
Entries 101
Mean 0.003174
Std Dev 0.9682

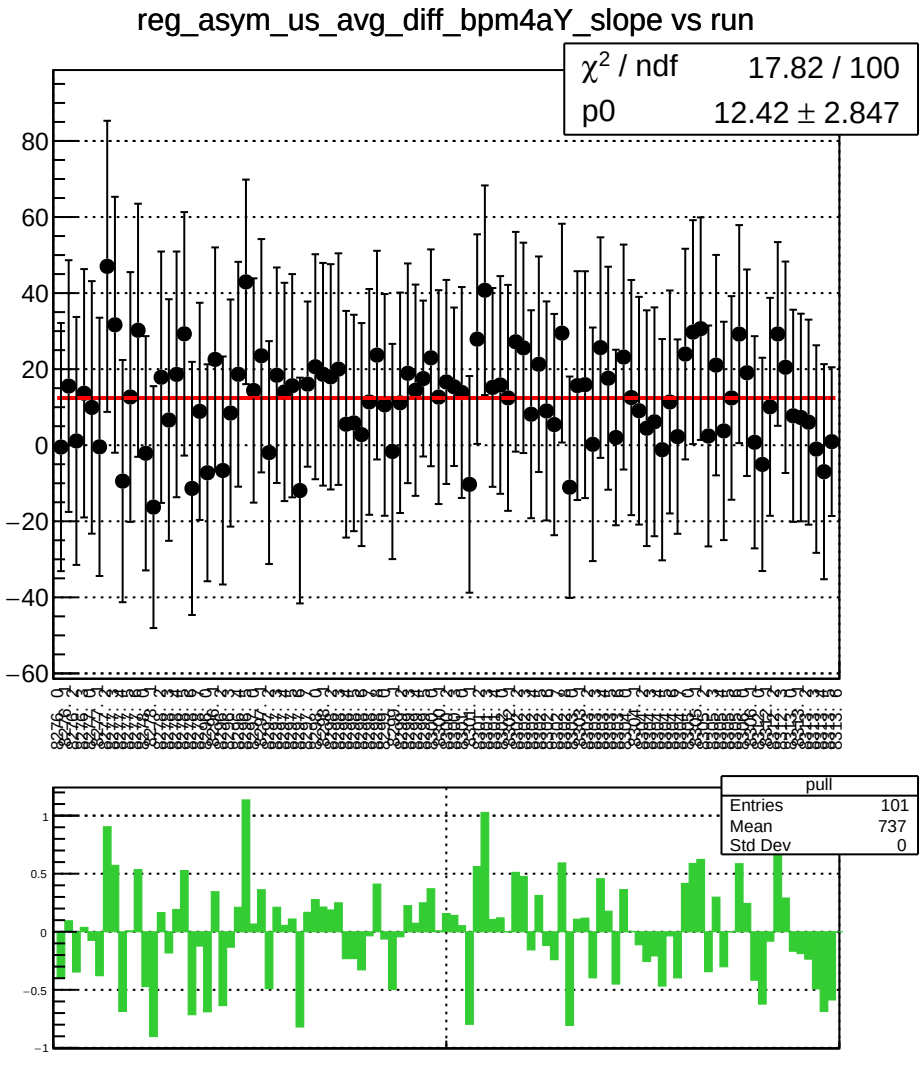

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 127.8 / 100
p0 −0.3535 ± 0.6402
pull
Entries 101
Mean −742
Std Dev 0

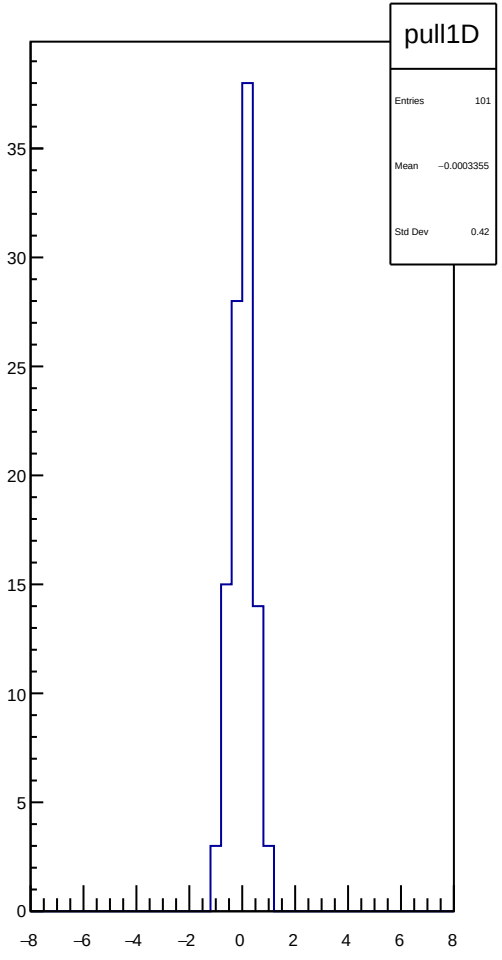

pull1D
Entries 101
Mean −0.01178
Std Dev 1.125

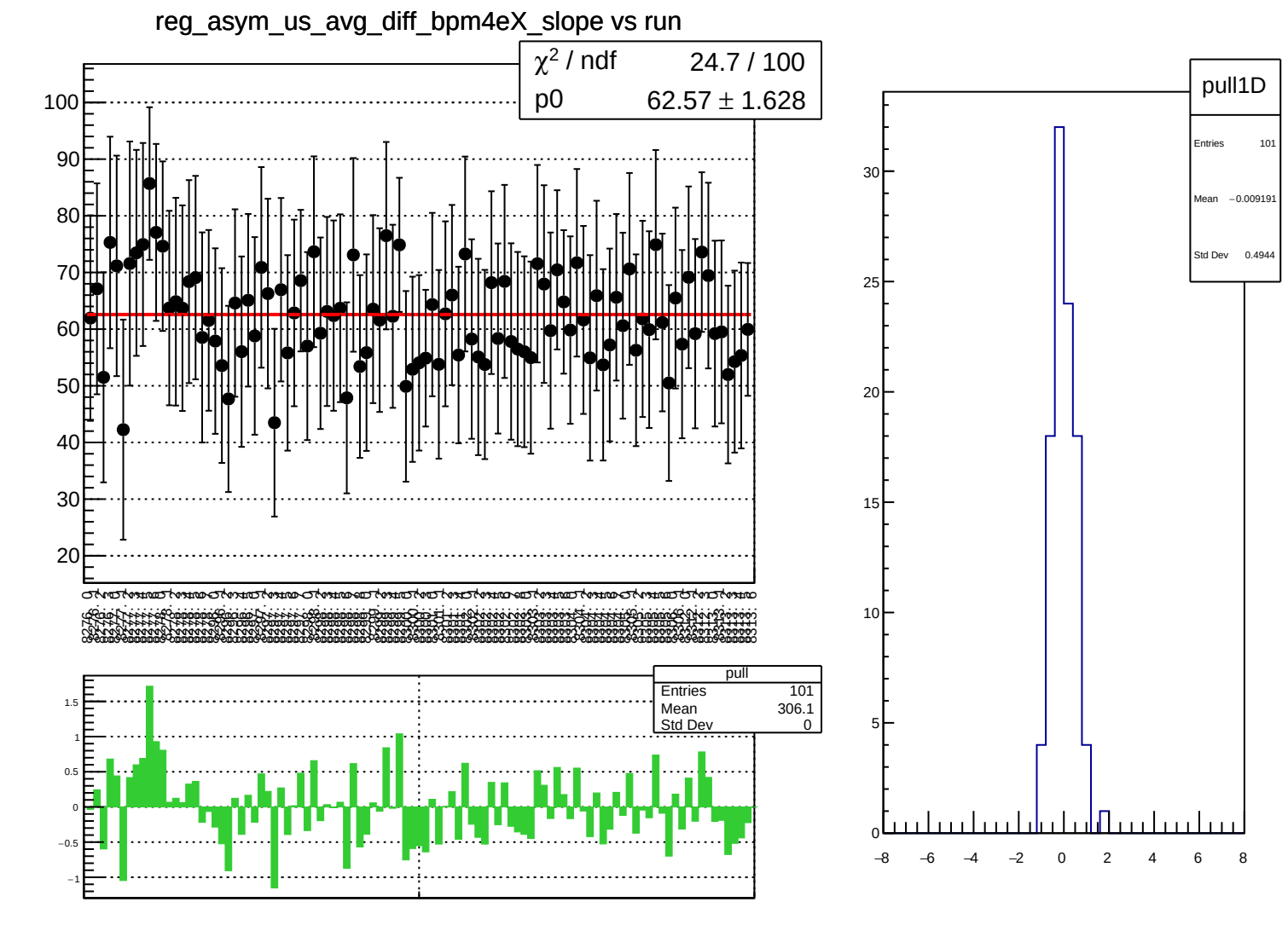

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 130.3 / 100
p0 0.03354 ± 0.03406
pull
Entries 101
Mean −597.6
Std Dev 0
pull1D
Entries 101
Mean 0.008463
Std Dev 1.136

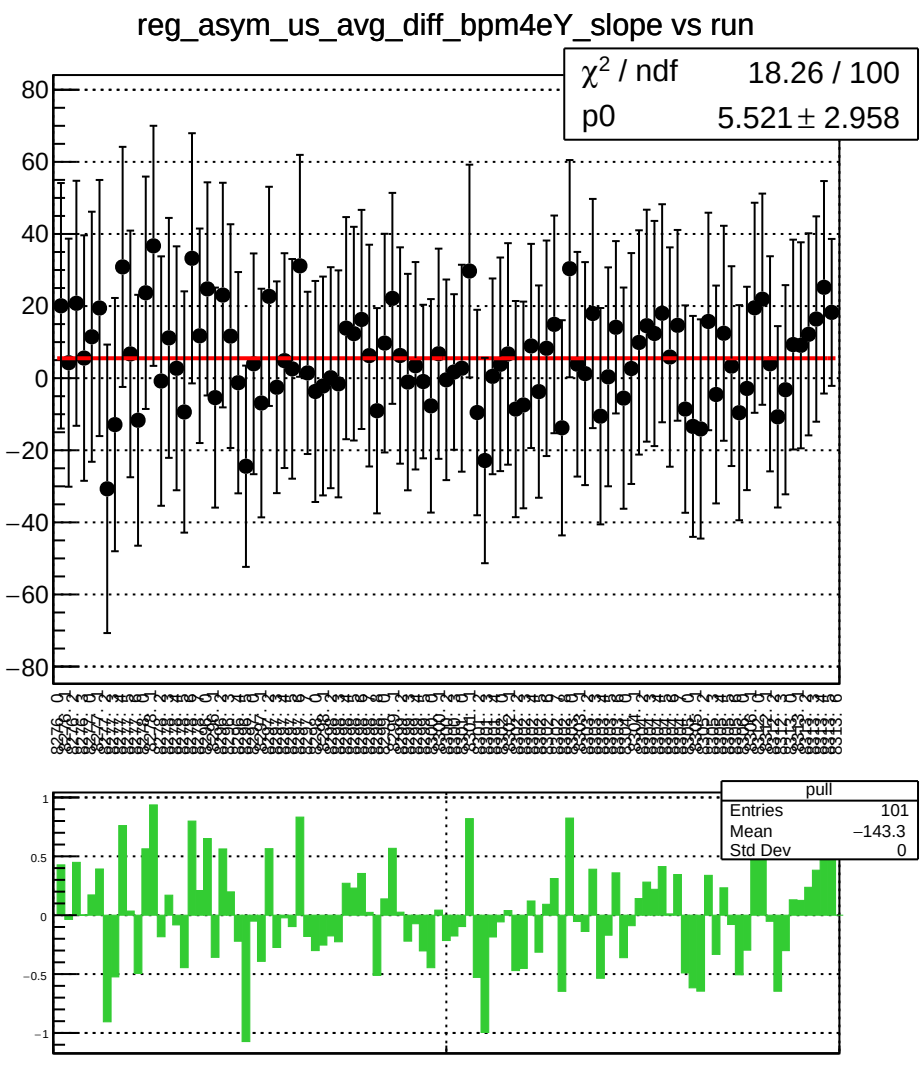

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 24.58 / 100
p0 −69.7 ± 1.458
pull
Entries 101
Mean 308.5
Std Dev 0

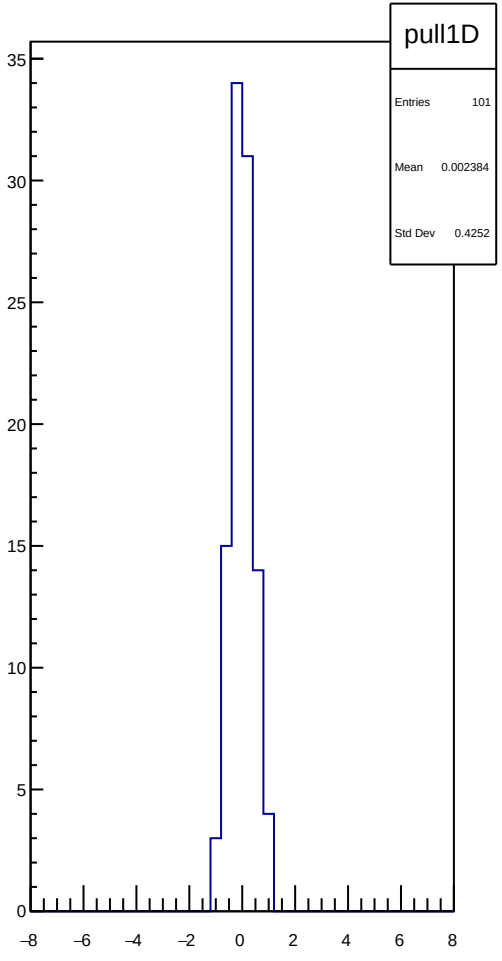

pull1D
Entries 101
Mean 0.007718
Std Dev 0.4933

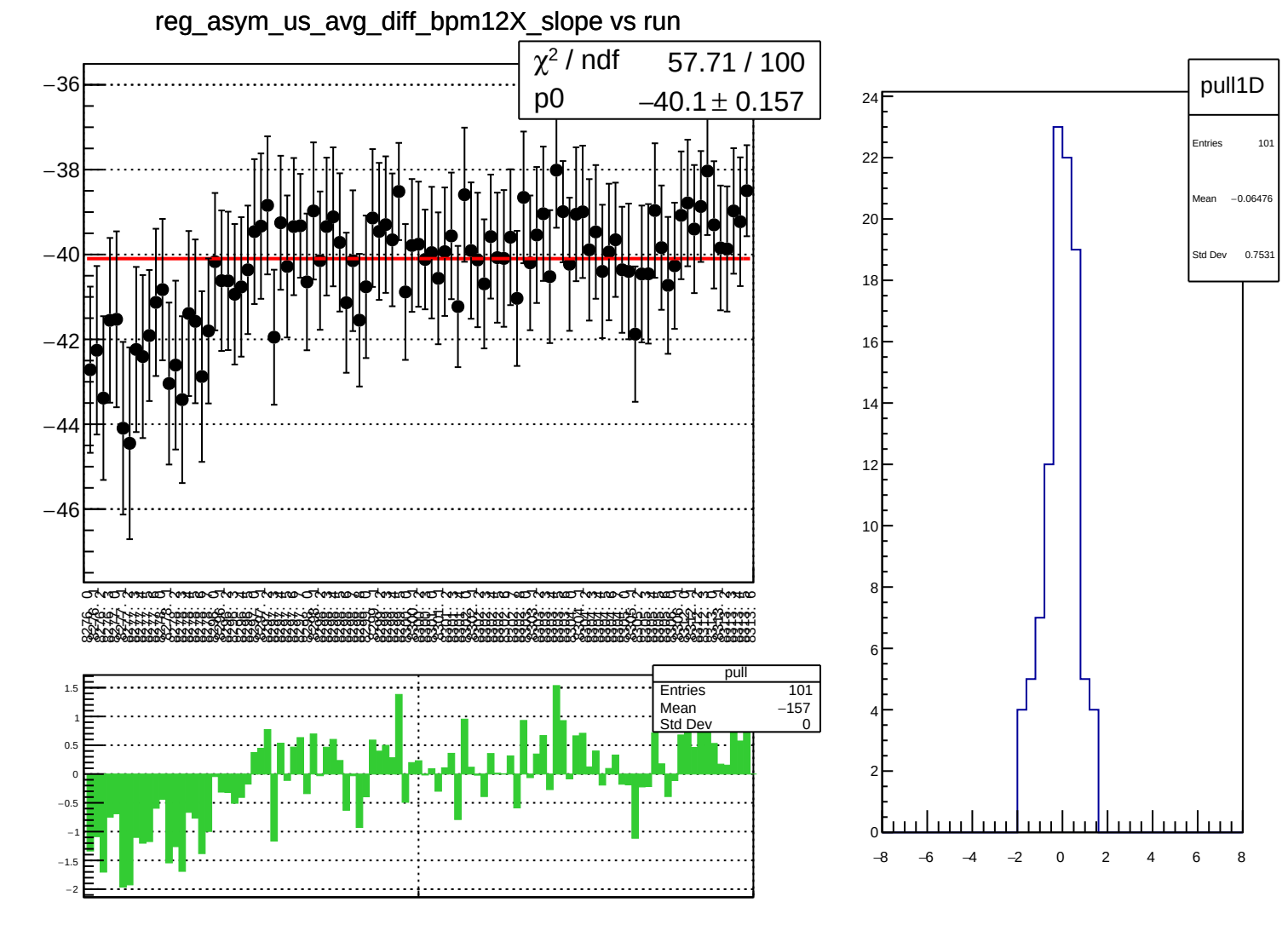

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 17.82 / 100
p0 12.42 ± 2.847
pull
Entries 101
Mean 737
Std Dev 0

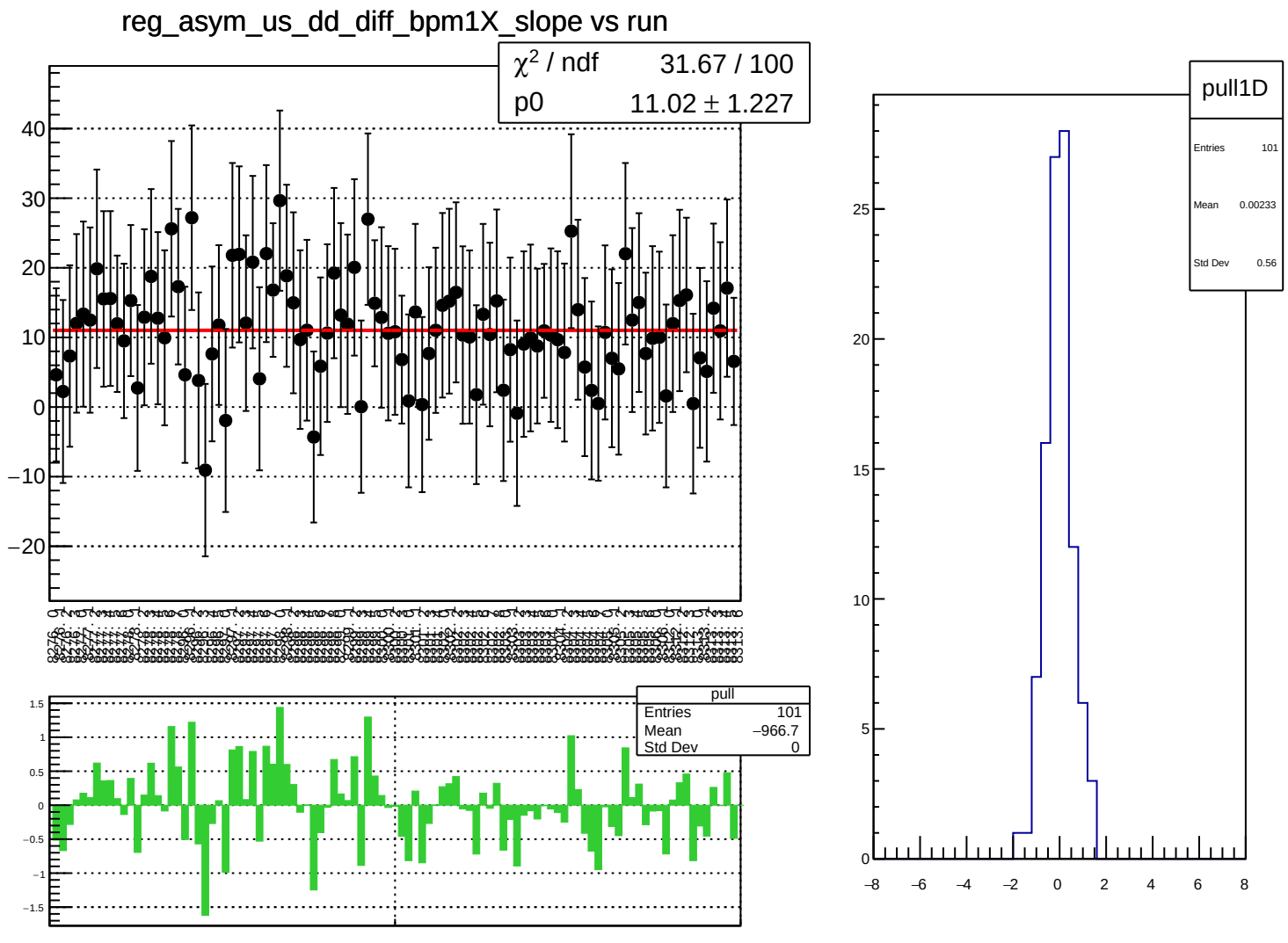

pull1D
Entries 101
Mean −0.0003355
Std Dev 0.42

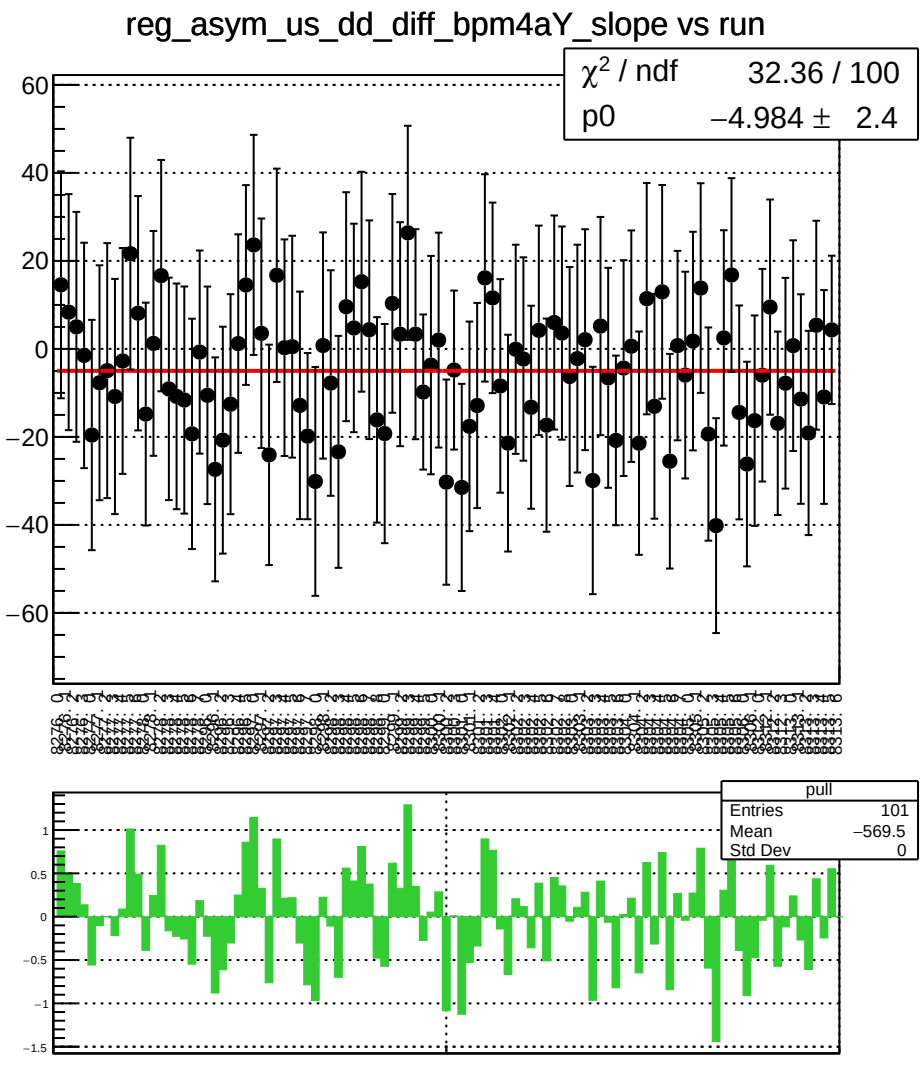

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 24.7 / 100
p0 62.57 ± 1.628
pull
Entries 101
Mean 306.1
Std Dev 0
pull1D
Entries 101
Mean −0.009191
Std Dev 0.4944

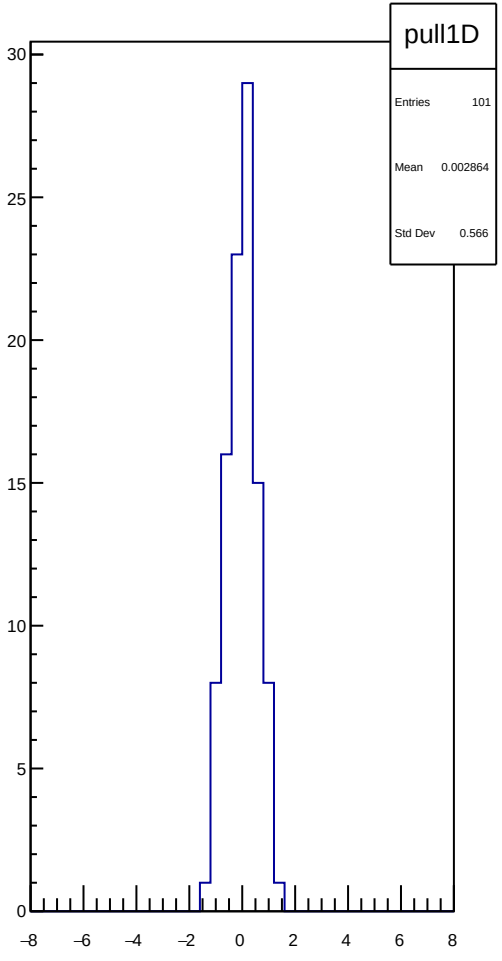

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 18.26 / 100
p0 5.521 ± 2.958
pull
Entries 101
Mean −143.3
Std Dev 0

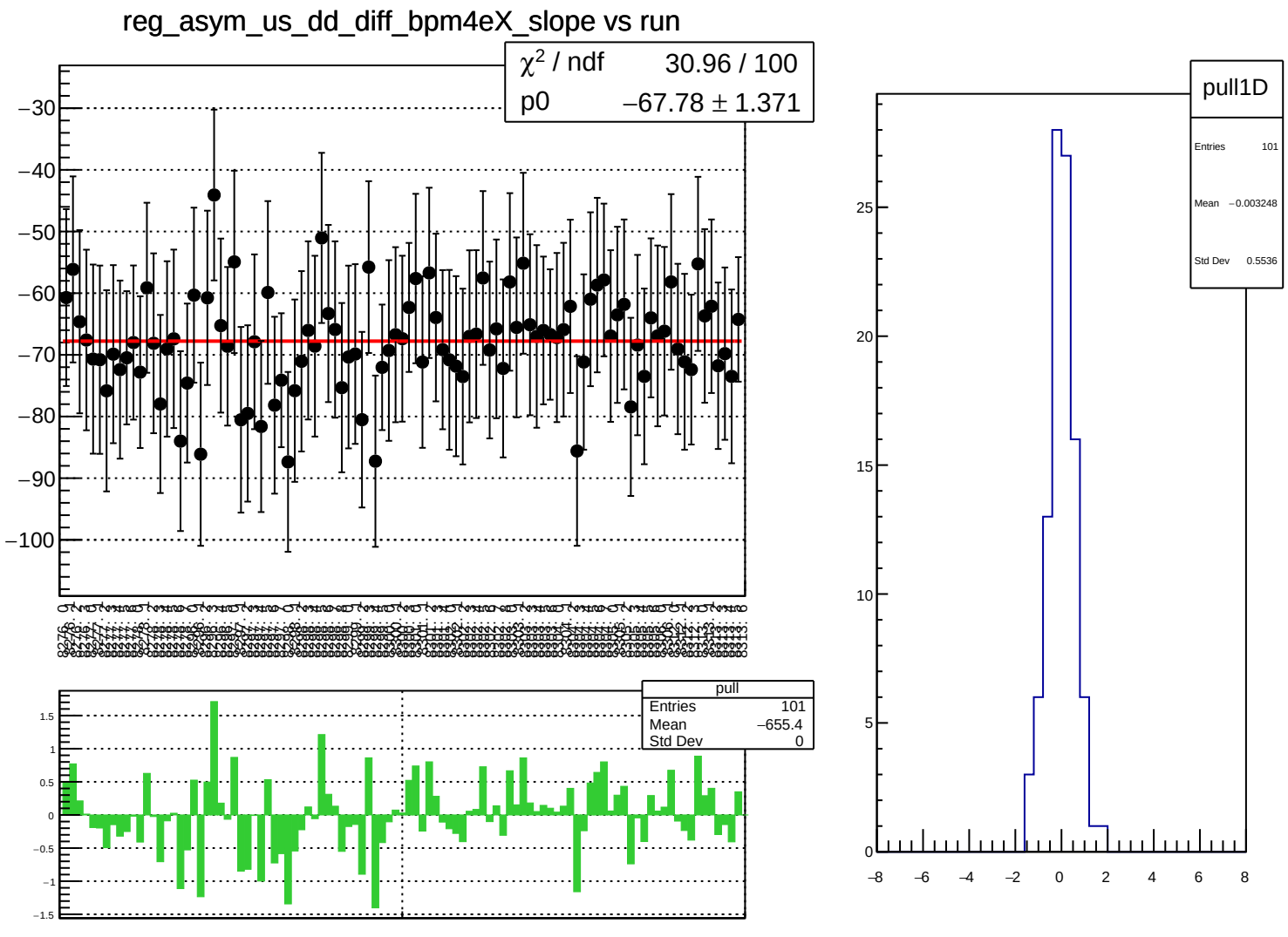

pull1D
Entries 101
Mean 0.002384
Std Dev 0.4252

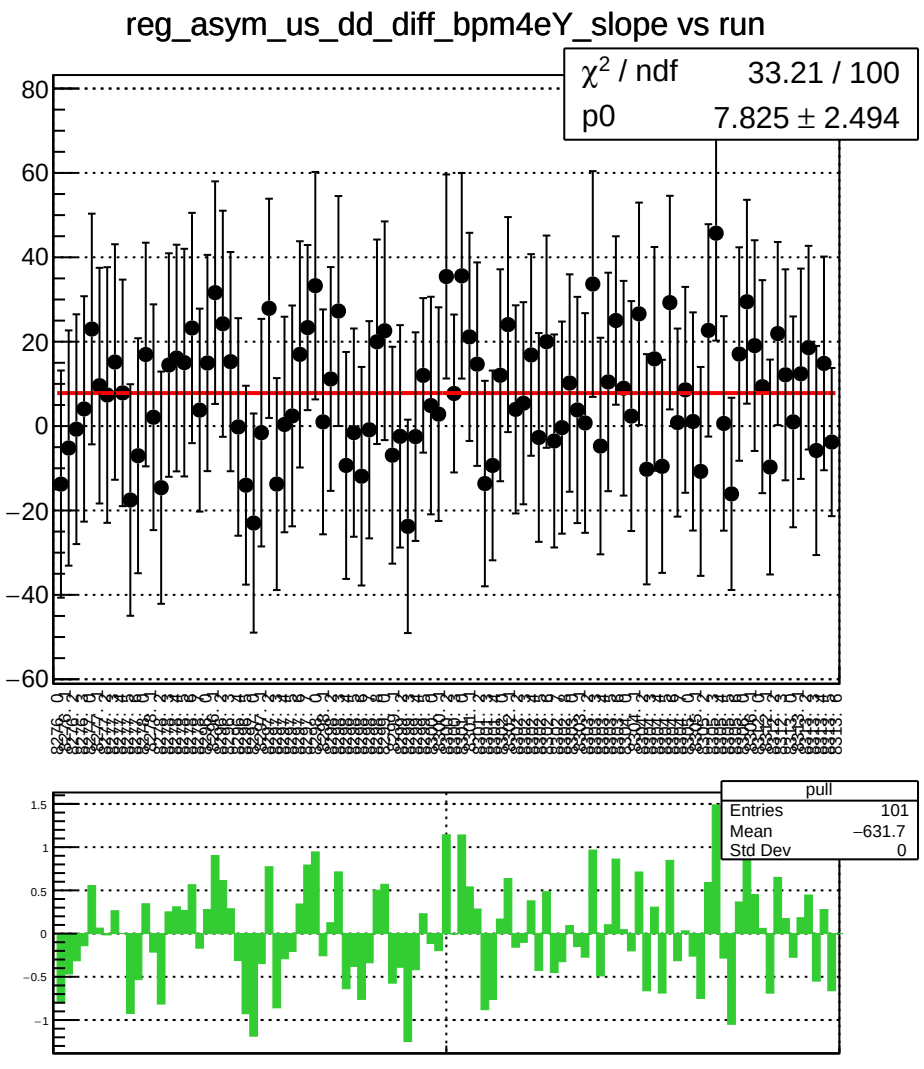

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 57.71 / 100
p0 −40.1 ± 0.157
pull
Entries 101
Mean −157
Std Dev 0
pull1D
Entries 101
Mean −0.06476
Std Dev 0.7531

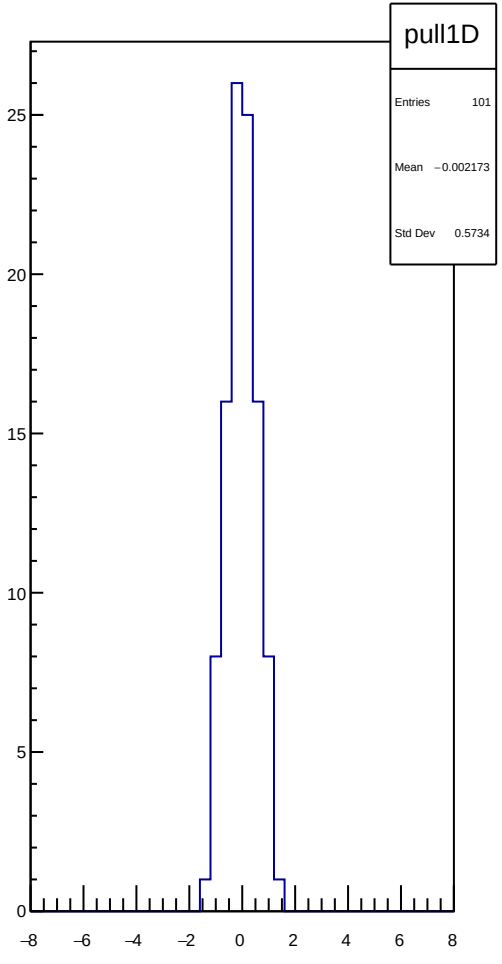

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 31.67 / 100
p0 11.02 ± 1.227
40
30
20
10
0
−10
−20
pull
Entries 101
Mean −966.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 101
Mean 0.00233
Std Dev 0.56
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

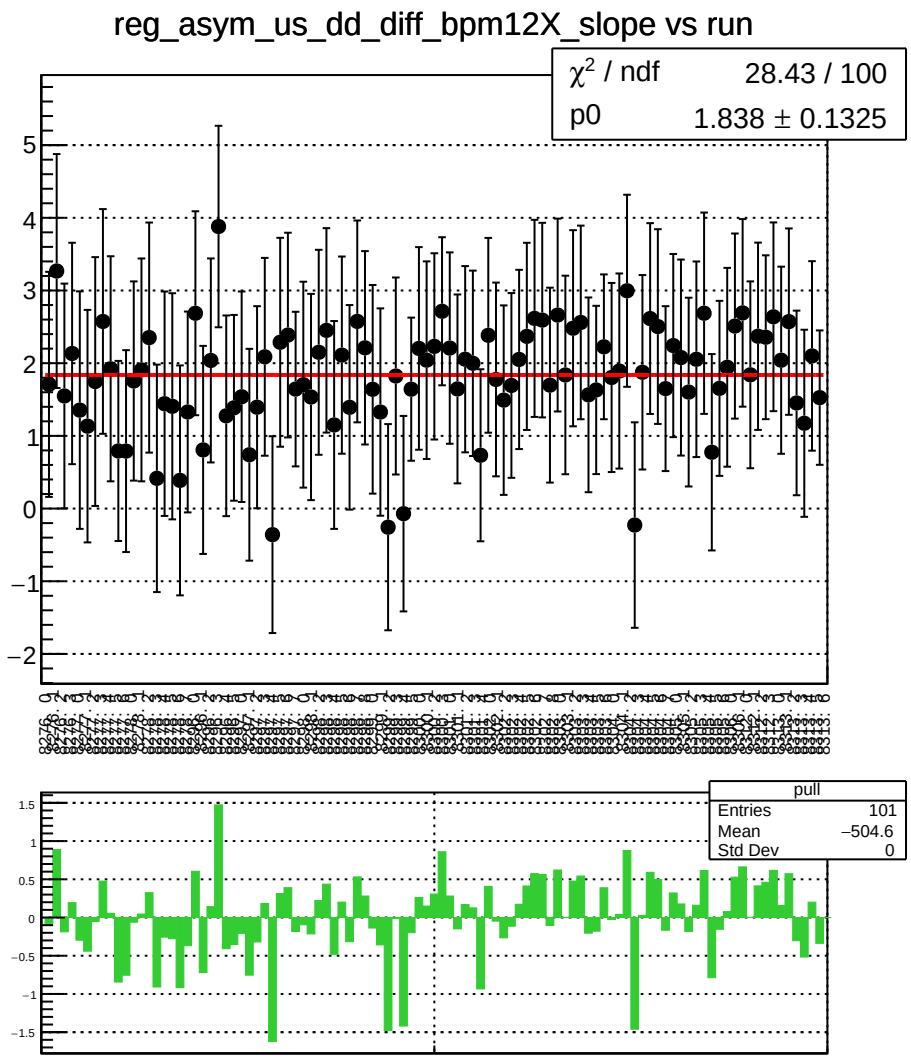

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 32.36 / 100
p0 −4.984 ± 2.4
pull
Entries 101
Mean −569.5
Std Dev 0

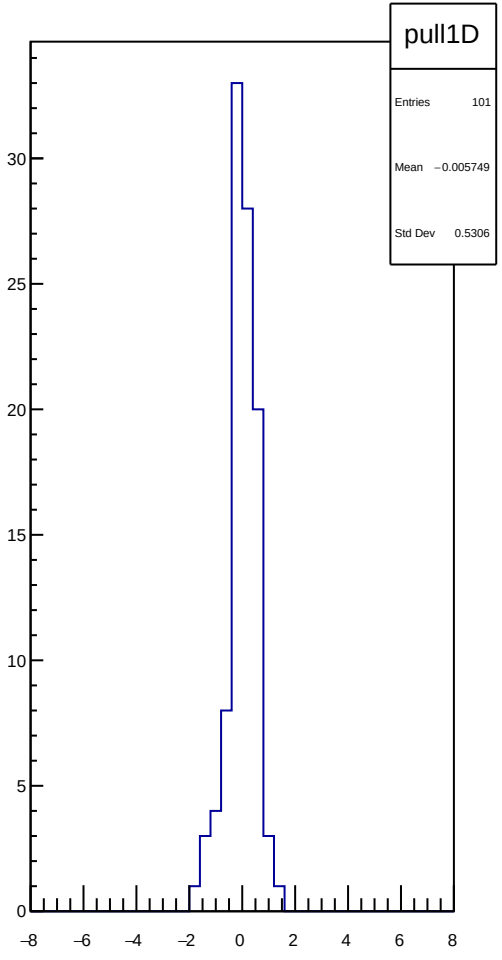

pull1D
Entries 101
Mean 0.002864
Std Dev 0.566

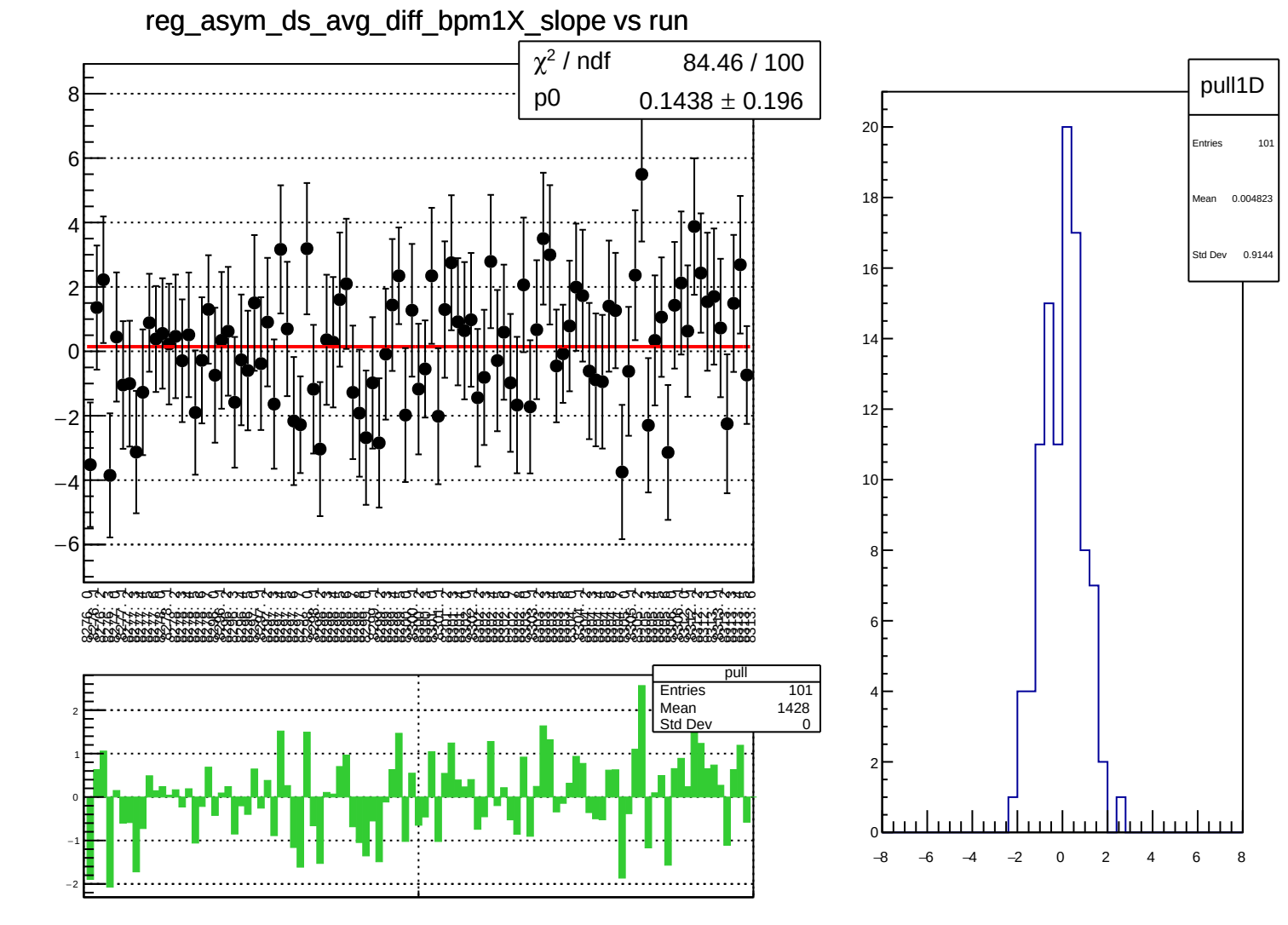

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 30.96 / 100
p0 −67.78 ± 1.371
pull
Entries 101
Mean −655.4
Std Dev 0
pull1D
Entries 101
Mean −0.003248
Std Dev 0.5536

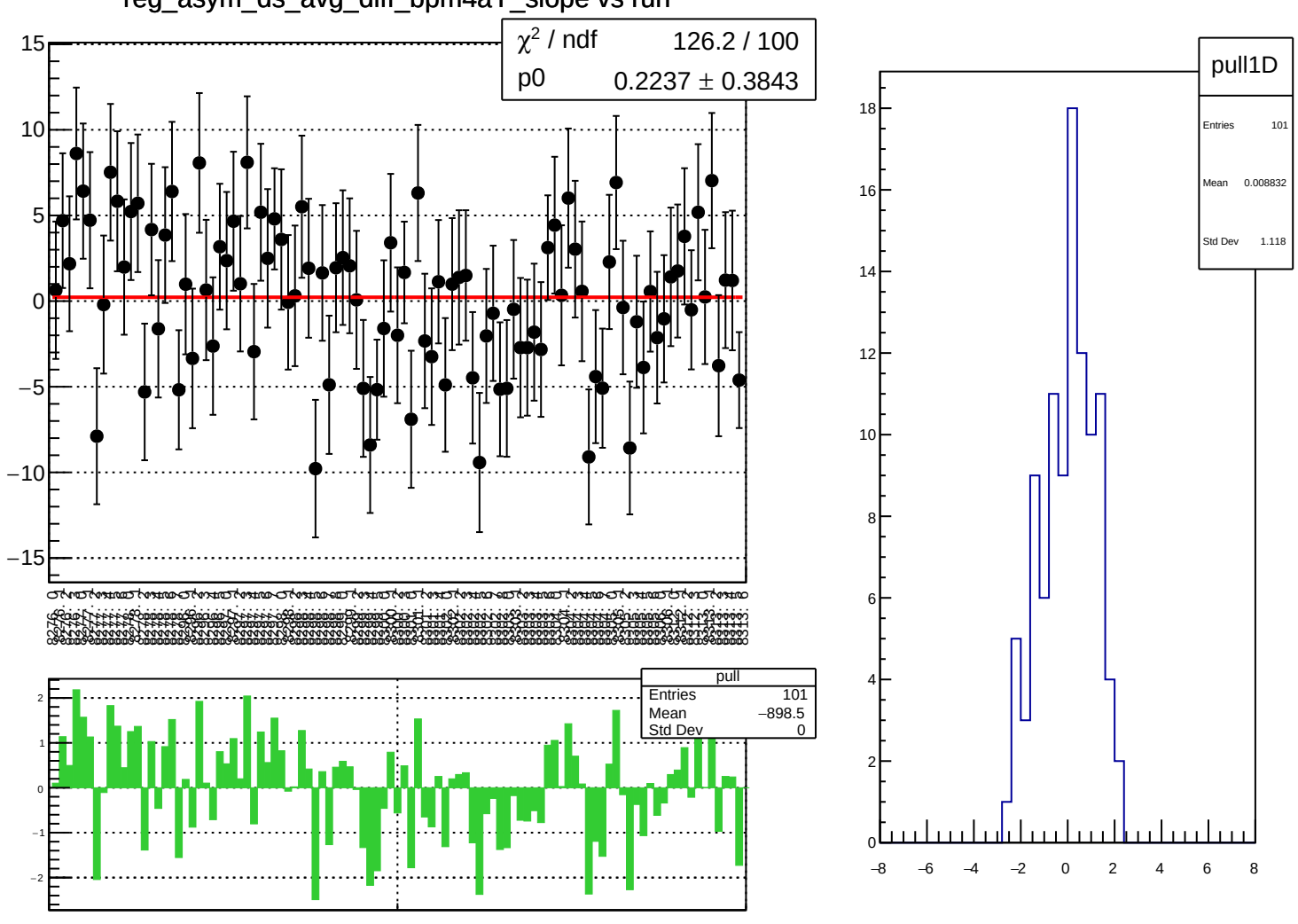

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 33.21 / 100
p0 7.825 ± 2.494
pull
Entries 101
Mean −631.7
Std Dev 0

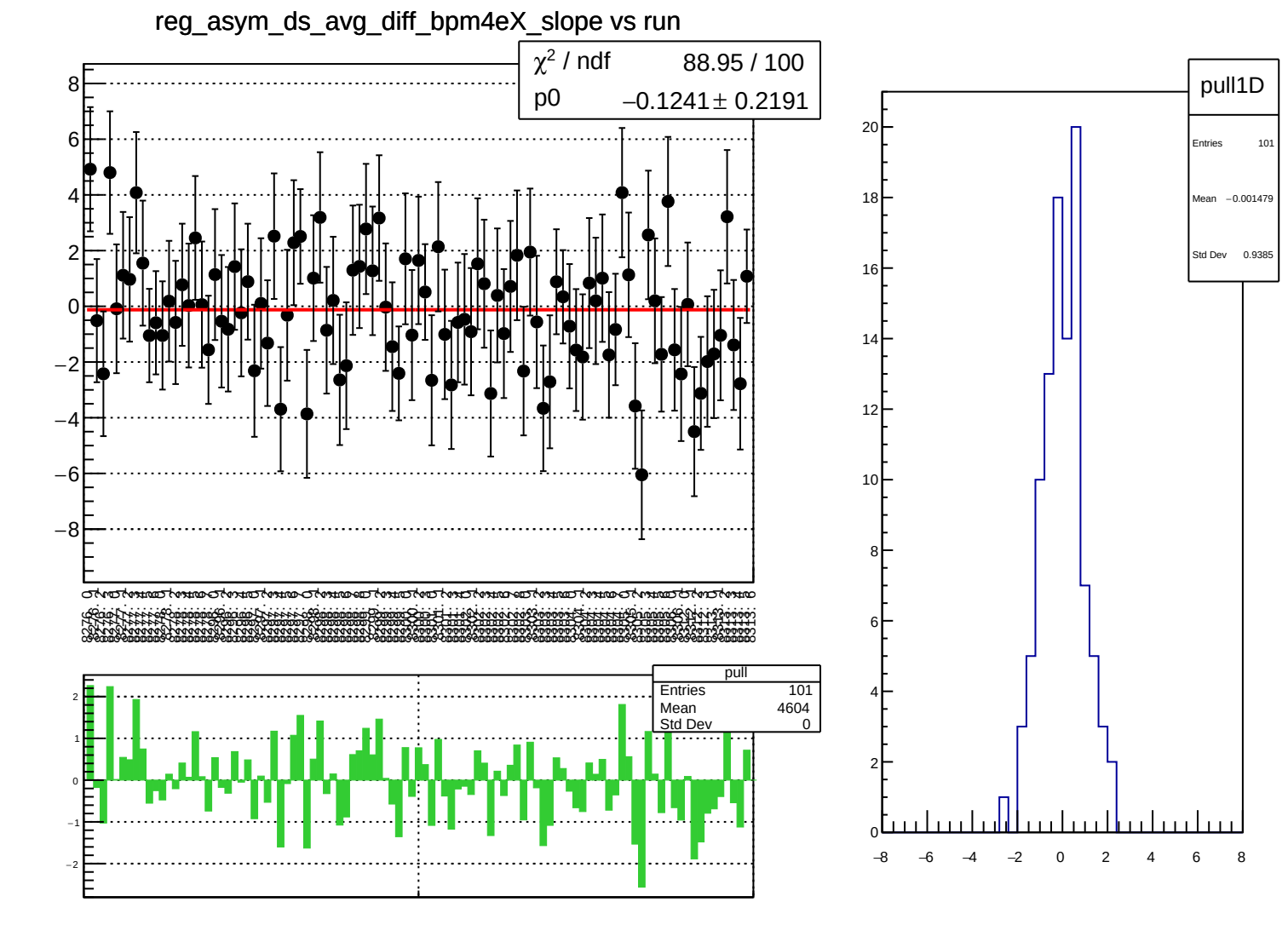

pull1D
Entries 101
Mean −0.002173
Std Dev 0.5734

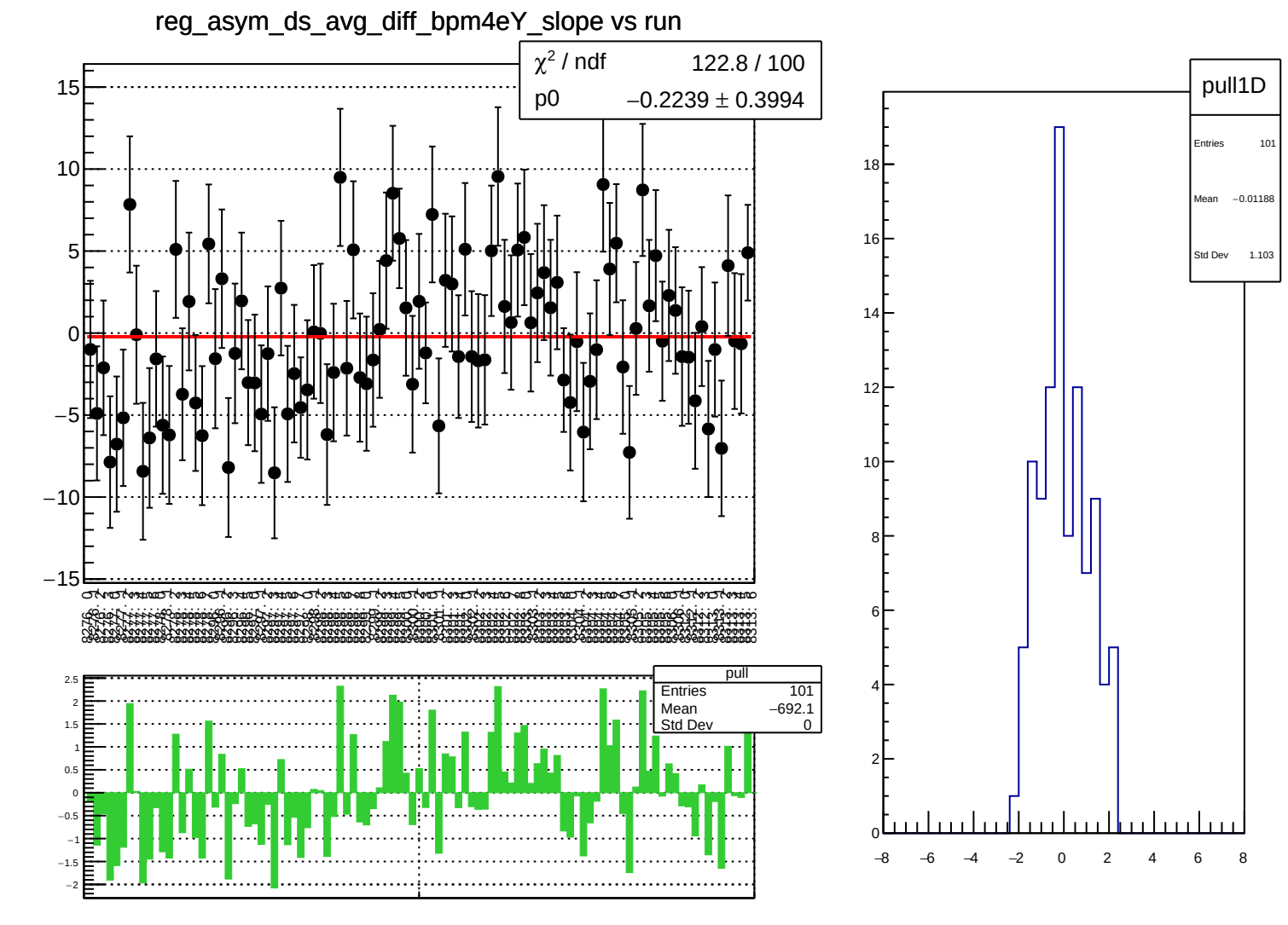

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 28.43 / 100
p0 1.838 ± 0.1325
pull
Entries 101
Mean −504.6
Std Dev 0

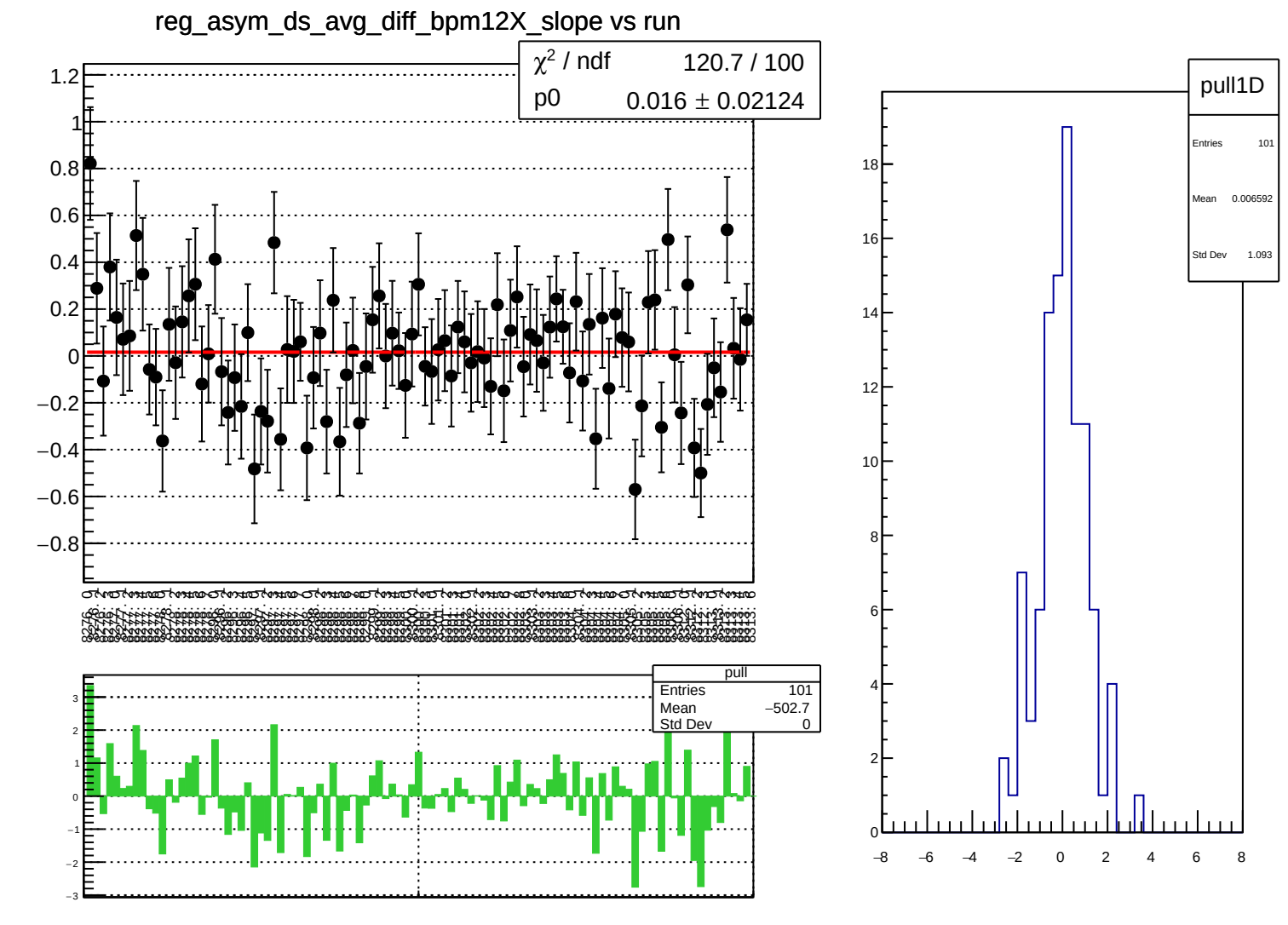

pull1D
Entries 101
Mean −0.005749
Std Dev 0.5306

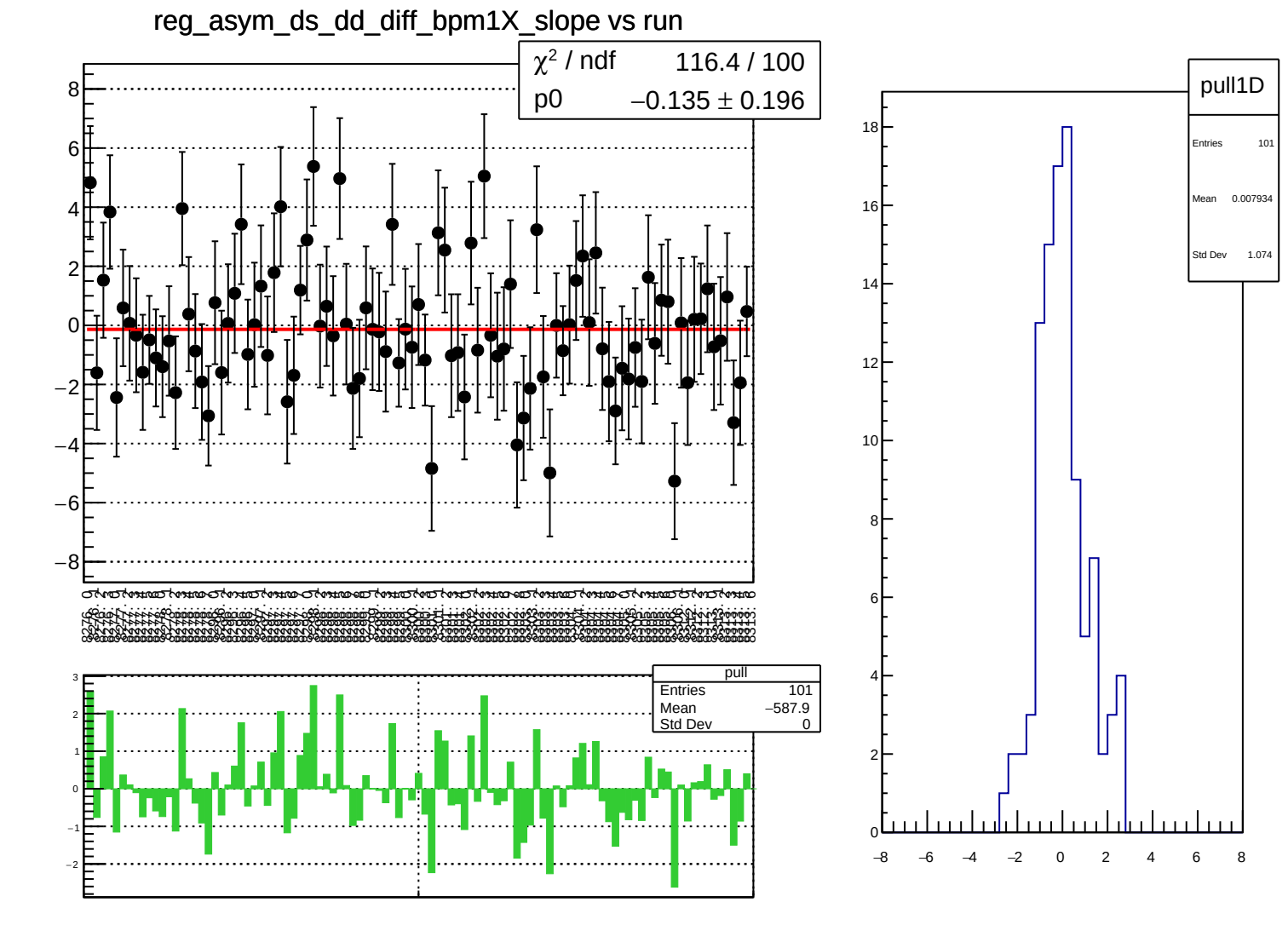

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 84.46 / 100
p0 0.1438 ± 0.196
pull
Entries 101
Mean 1428
Std Dev 0
pull1D
Entries 101
Mean 0.004823
Std Dev 0.9144

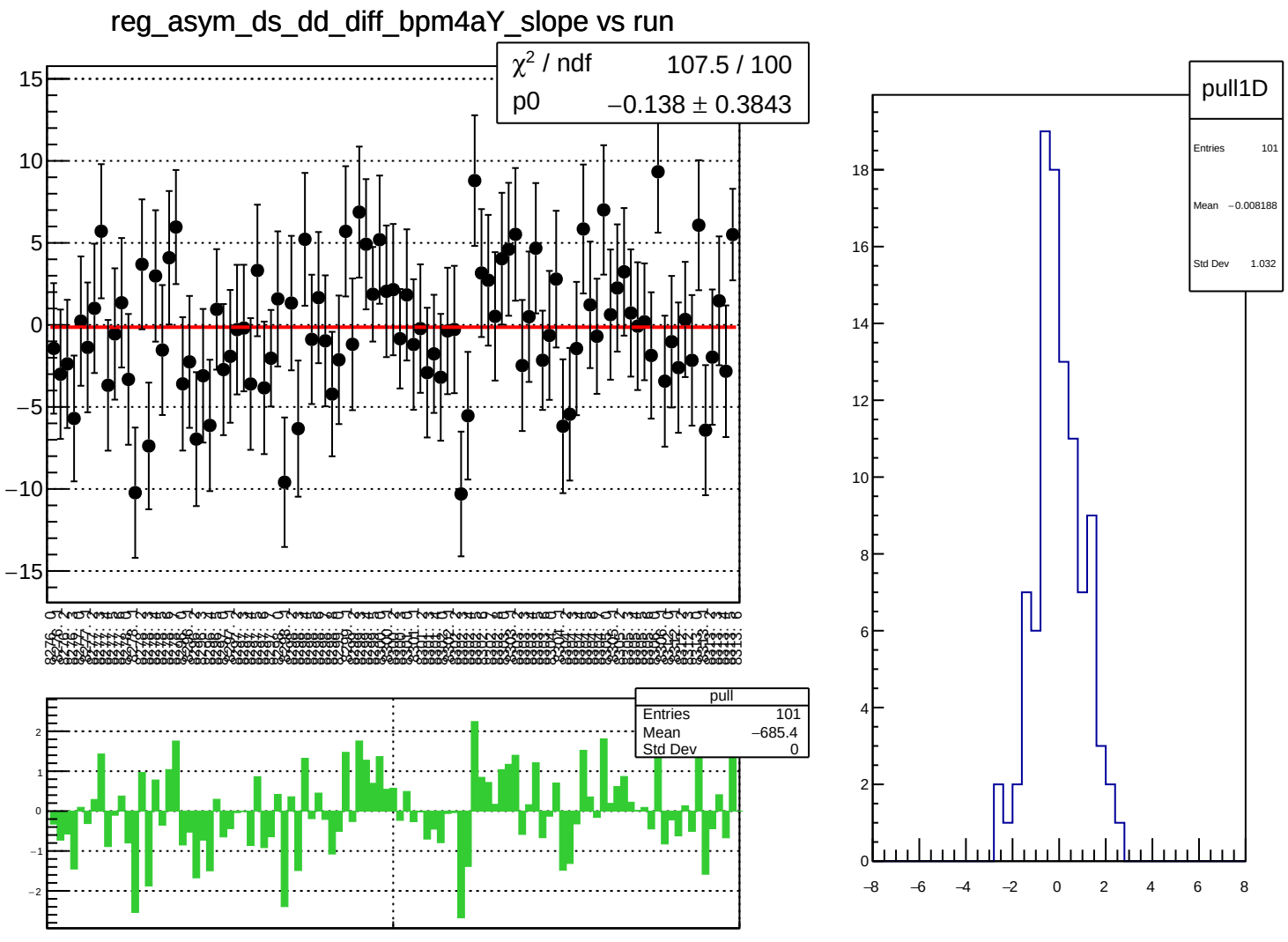

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 126.2 / 100
p0 0.2237 ± 0.3843
pull
Entries 101
Mean −898.5
Std Dev 0
pull1D
Entries 101
Mean 0.008832
Std Dev 1.118

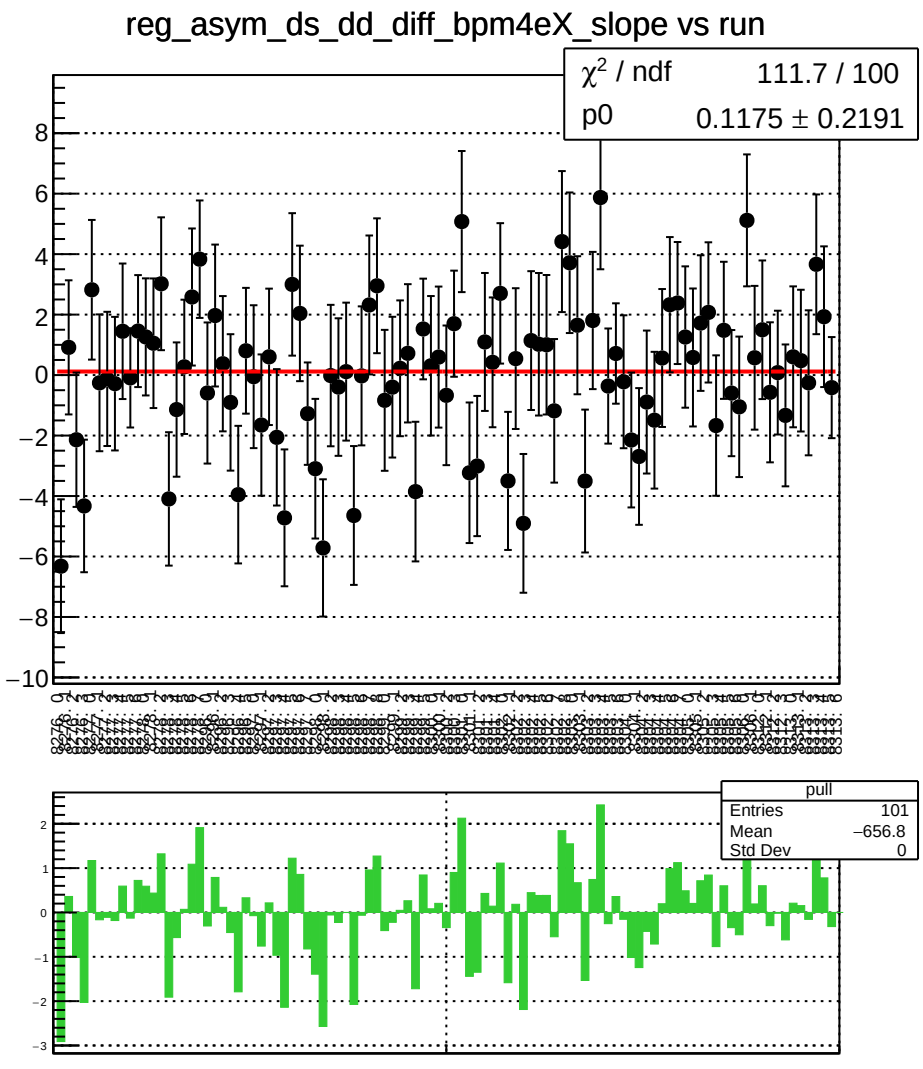

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 88.95 / 100
p0 −0.1241 ± 0.2191
pull
Entries 101
Mean 4604
Std Dev 0
pull1D
Entries 101
Mean −0.001479
Std Dev 0.9385

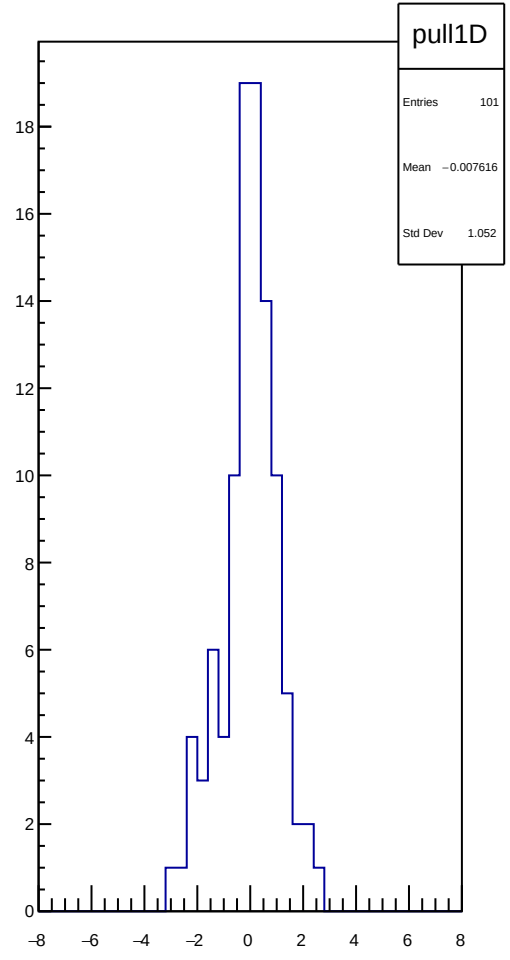

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 122.8 / 100
p0 −0.2239 ± 0.3994
pull
Entries 101
Mean −692.1
Std Dev 0
pull1D
Entries 101
Mean −0.01188
Std Dev 1.103

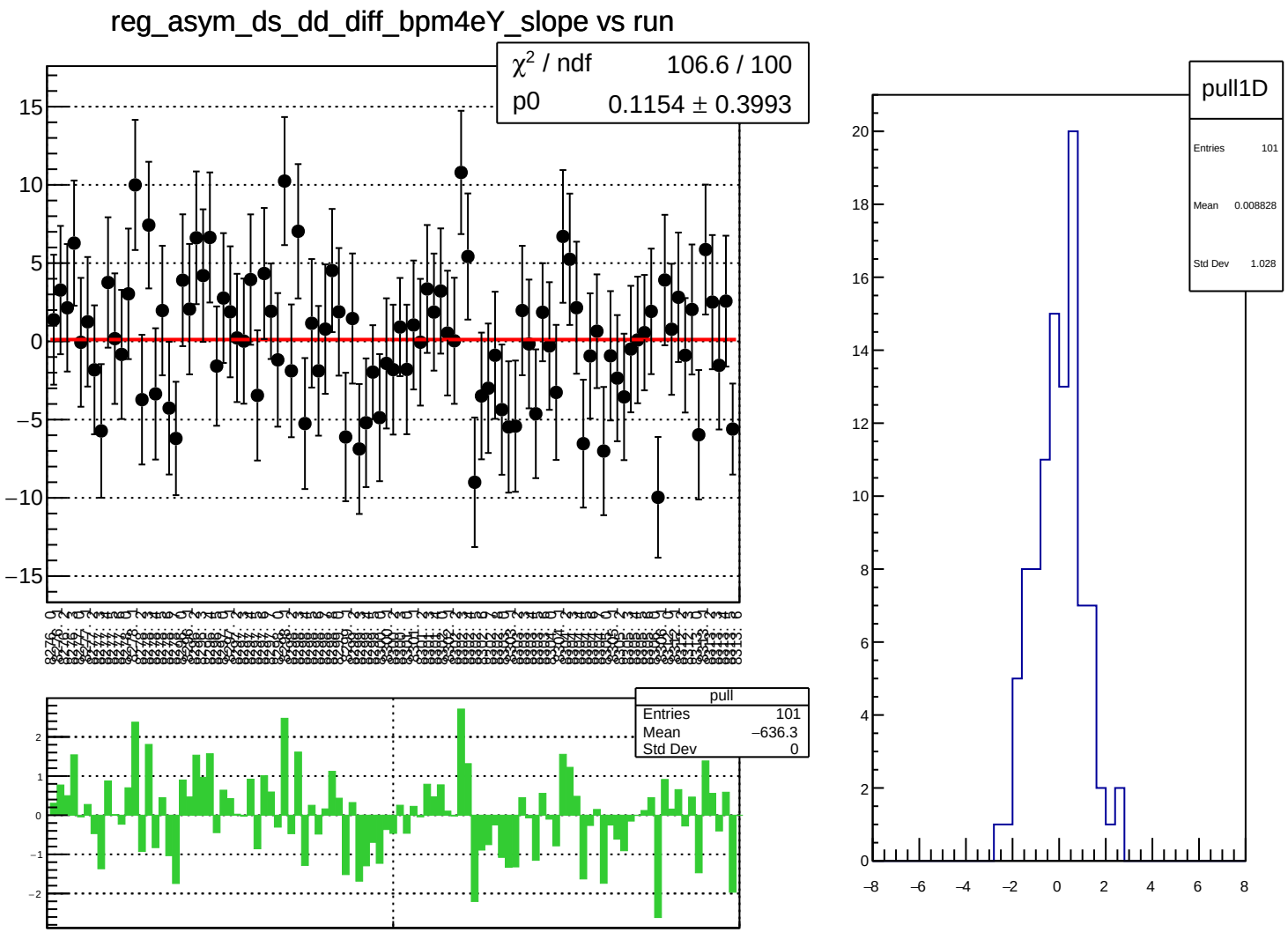

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 120.7 / 100
p0 0.016 ± 0.02124
pull
Entries 101
Mean −502.7
Std Dev 0
pull1D
Entries 101
Mean 0.006592
Std Dev 1.093

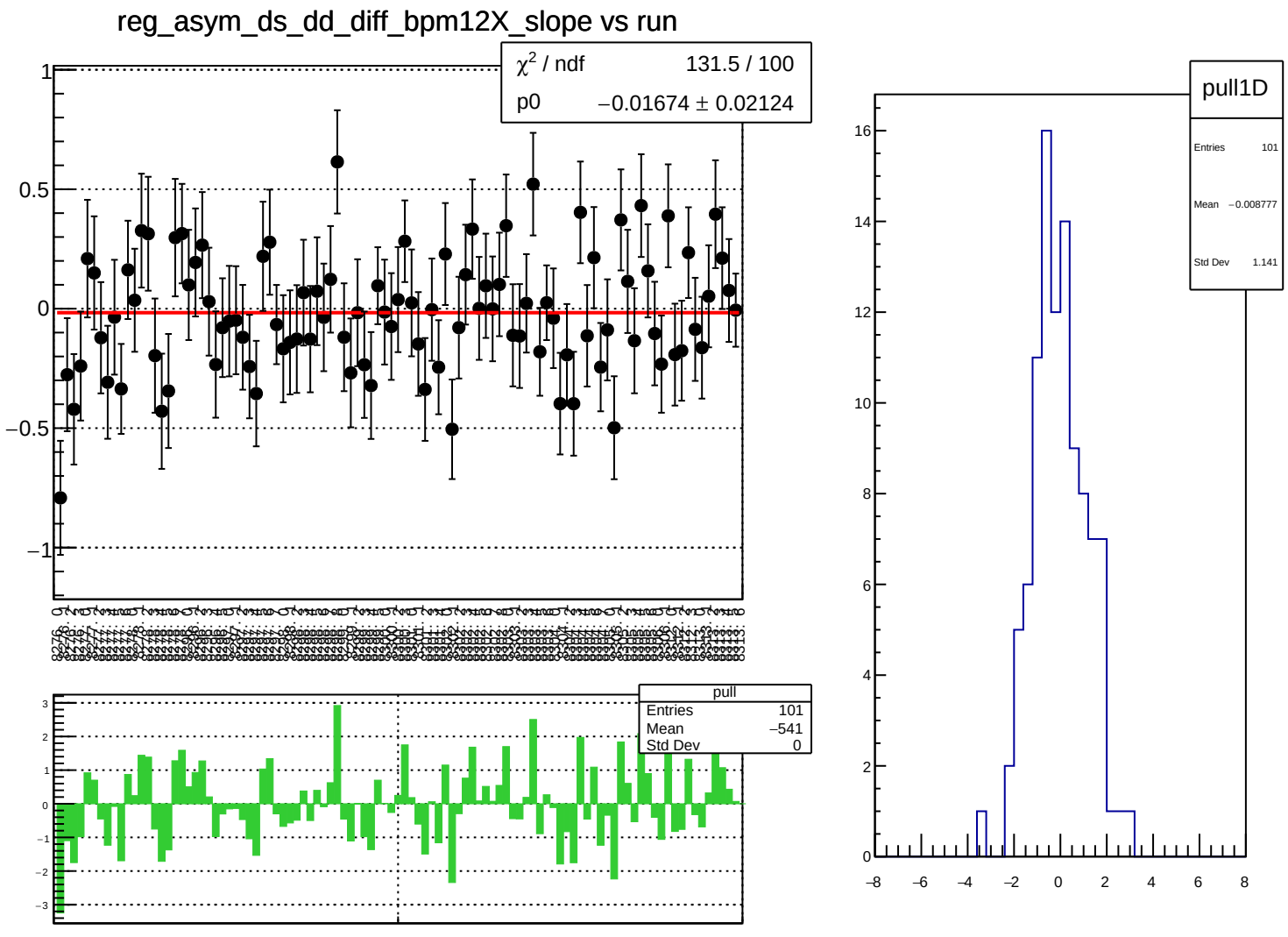

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 116.4 / 100
p0 −0.135 ± 0.196
pull
Entries 101
Mean −587.9
Std Dev 0
pull1D
Entries 101
Mean 0.007934
Std Dev 1.074

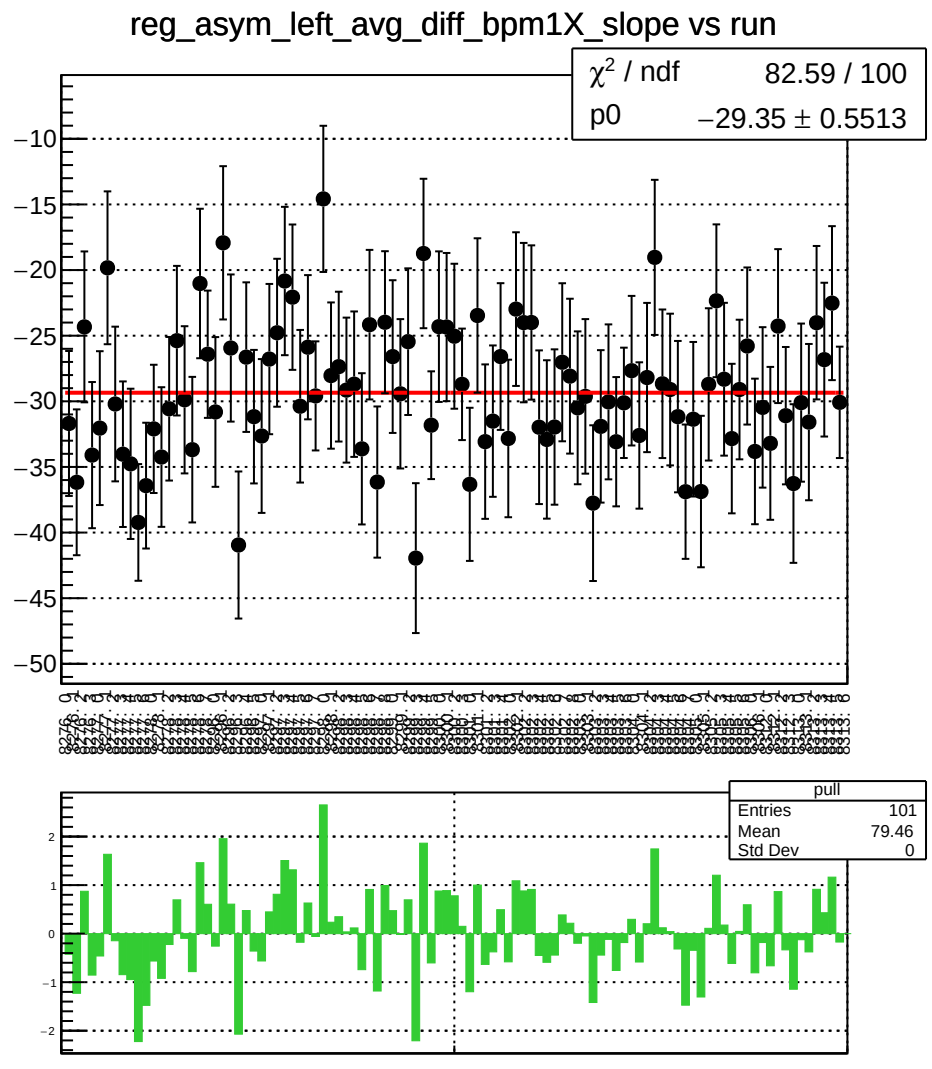

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 107.5 / 100
p0 −0.138 ± 0.3843
pull
Entries 101
Mean −685.4
Std Dev 0
pull1D
Entries 101
Mean −0.008188
Std Dev 1.032

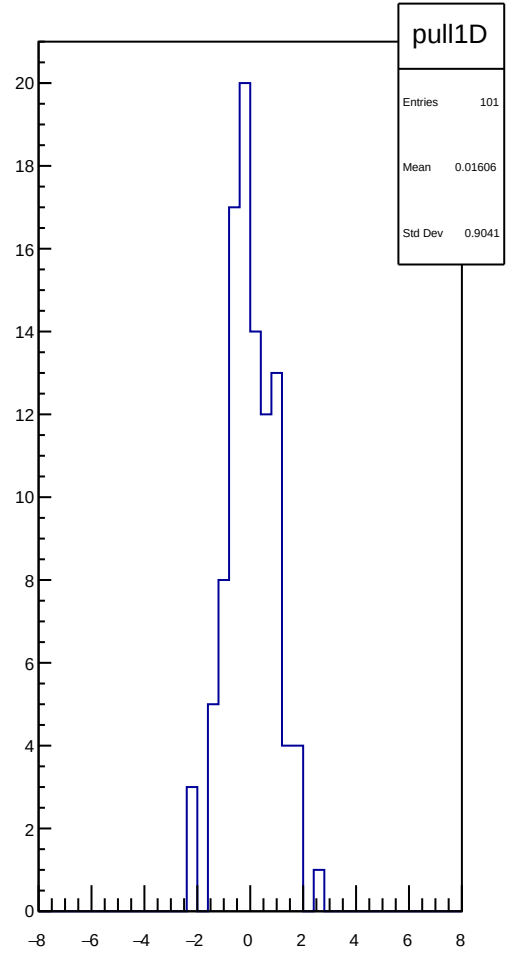

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 111.7 / 100
p0 0.1175 ± 0.2191
pull
Entries 101
Mean −656.8
Std Dev 0

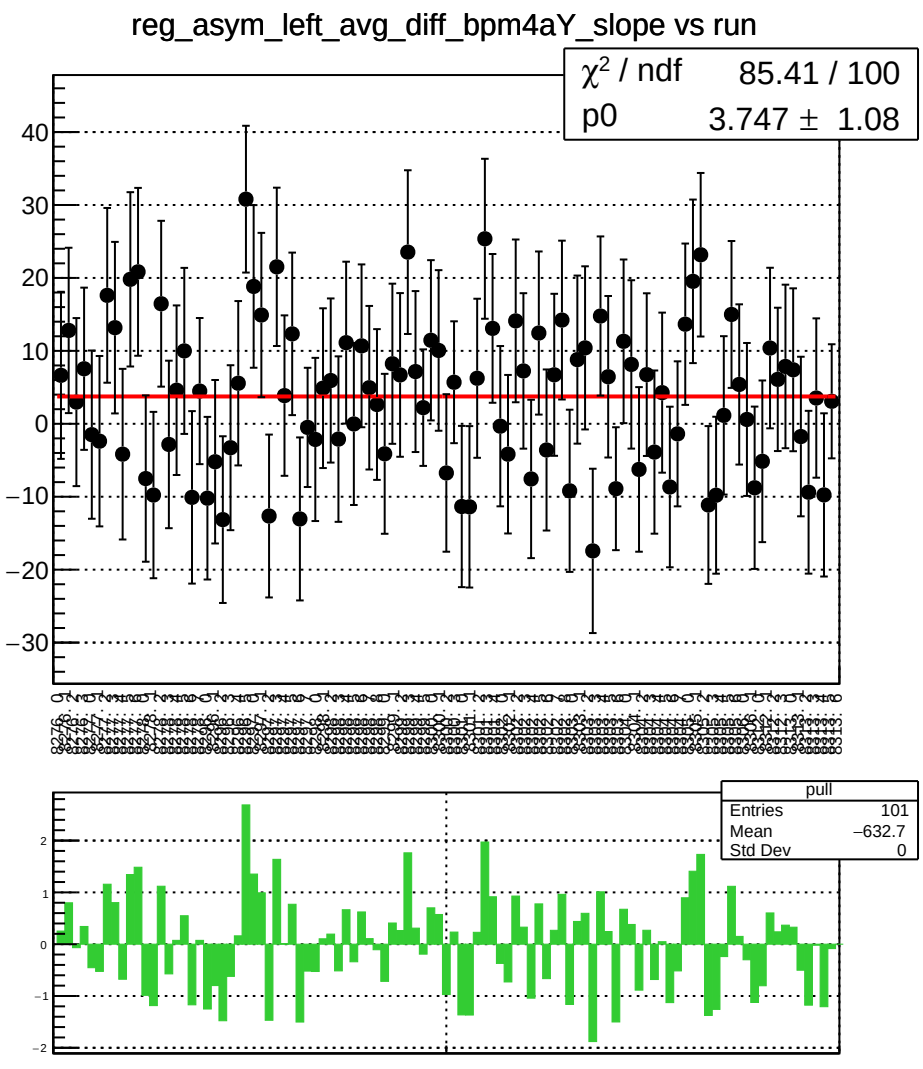

pull1D
Entries 101
Mean −0.007616
Std Dev 1.052

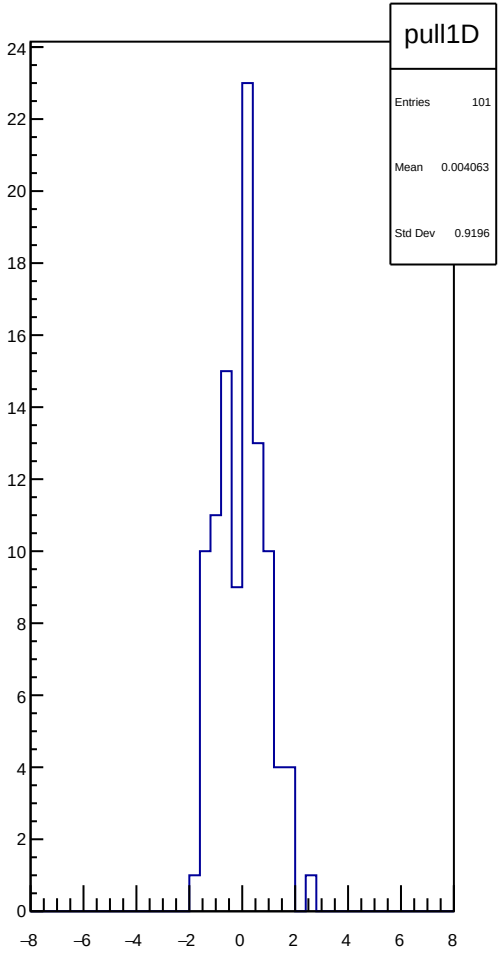

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 106.6 / 100
p0 0.1154 ± 0.3993
pull
Entries 101
Mean −636.3
Std Dev 0
pull1D
Entries 101
Mean 0.008828
Std Dev 1.028

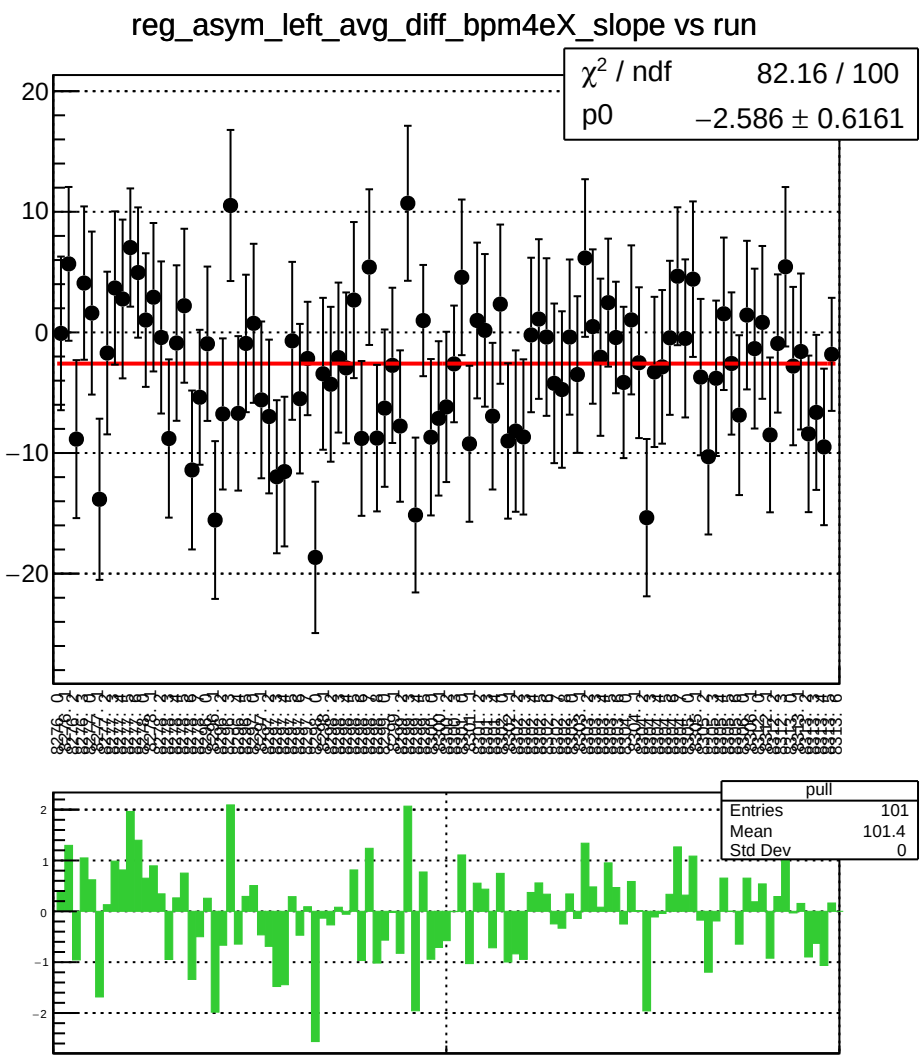

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 131.5 / 100
p0 −0.01674 ± 0.02124
pull
Entries 101
Mean −541
Std Dev 0
pull1D
Entries 101
Mean −0.008777
Std Dev 1.141

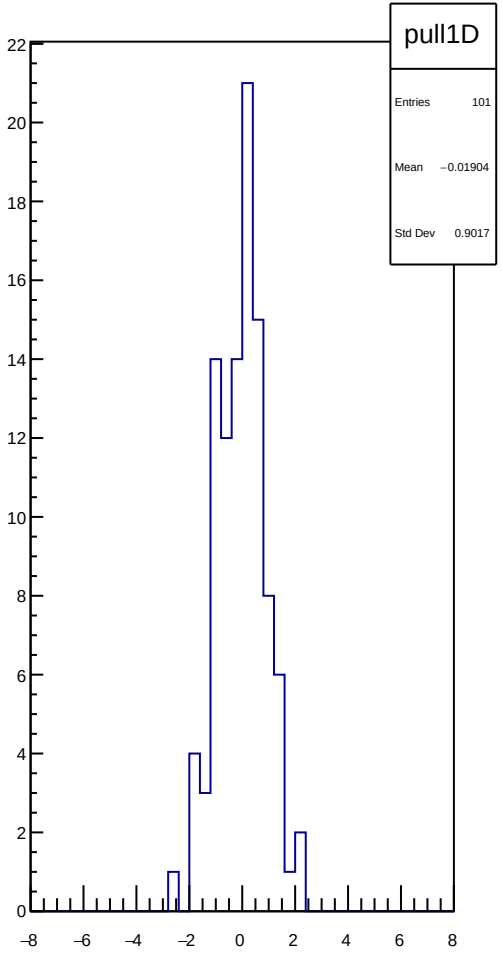

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 82.59 / 100
p0 −29.35 ± 0.5513
pull
Entries 101
Mean 79.46
Std Dev 0

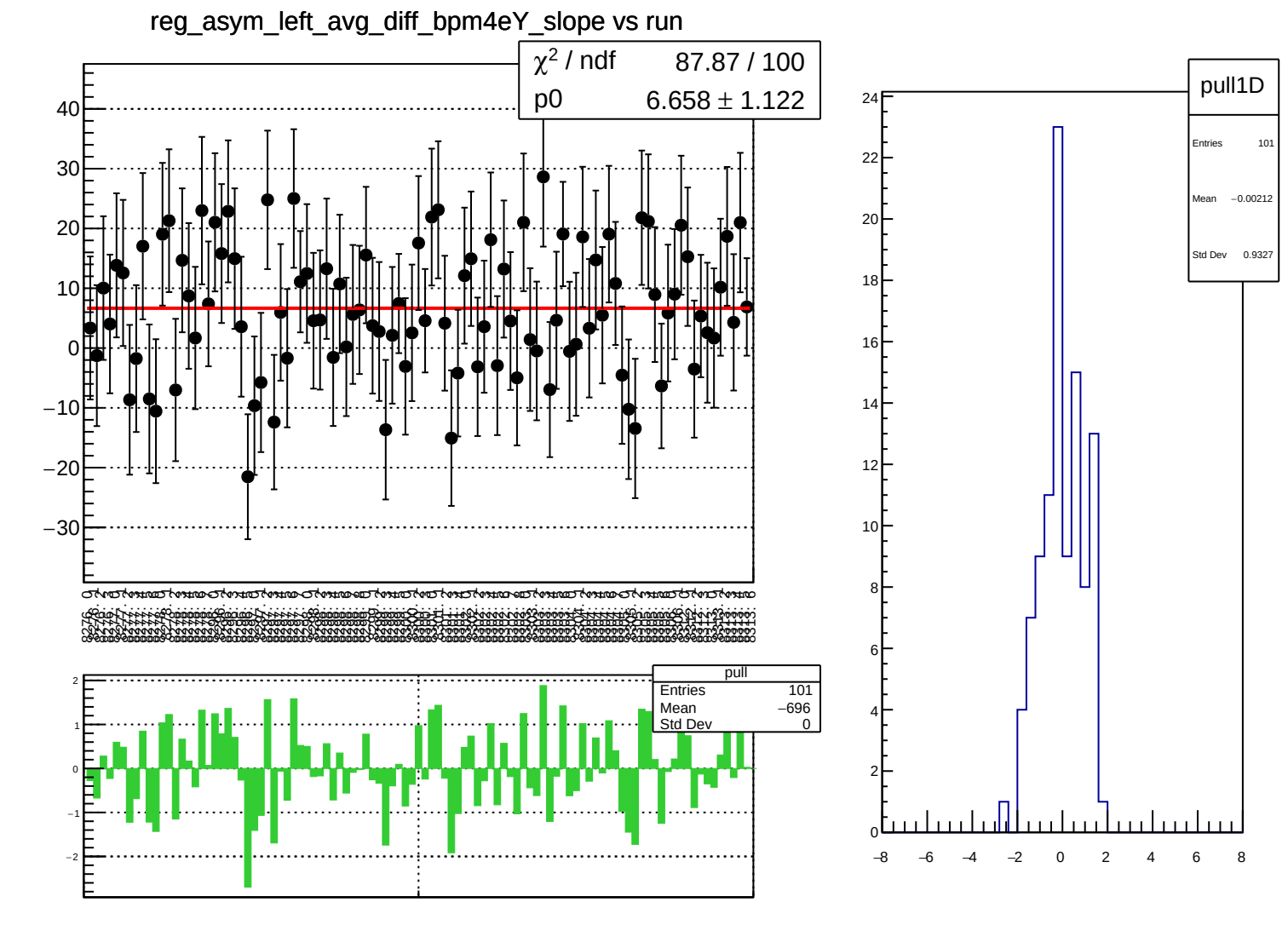

pull1D
Entries 101
Mean 0.01606
Std Dev 0.9041

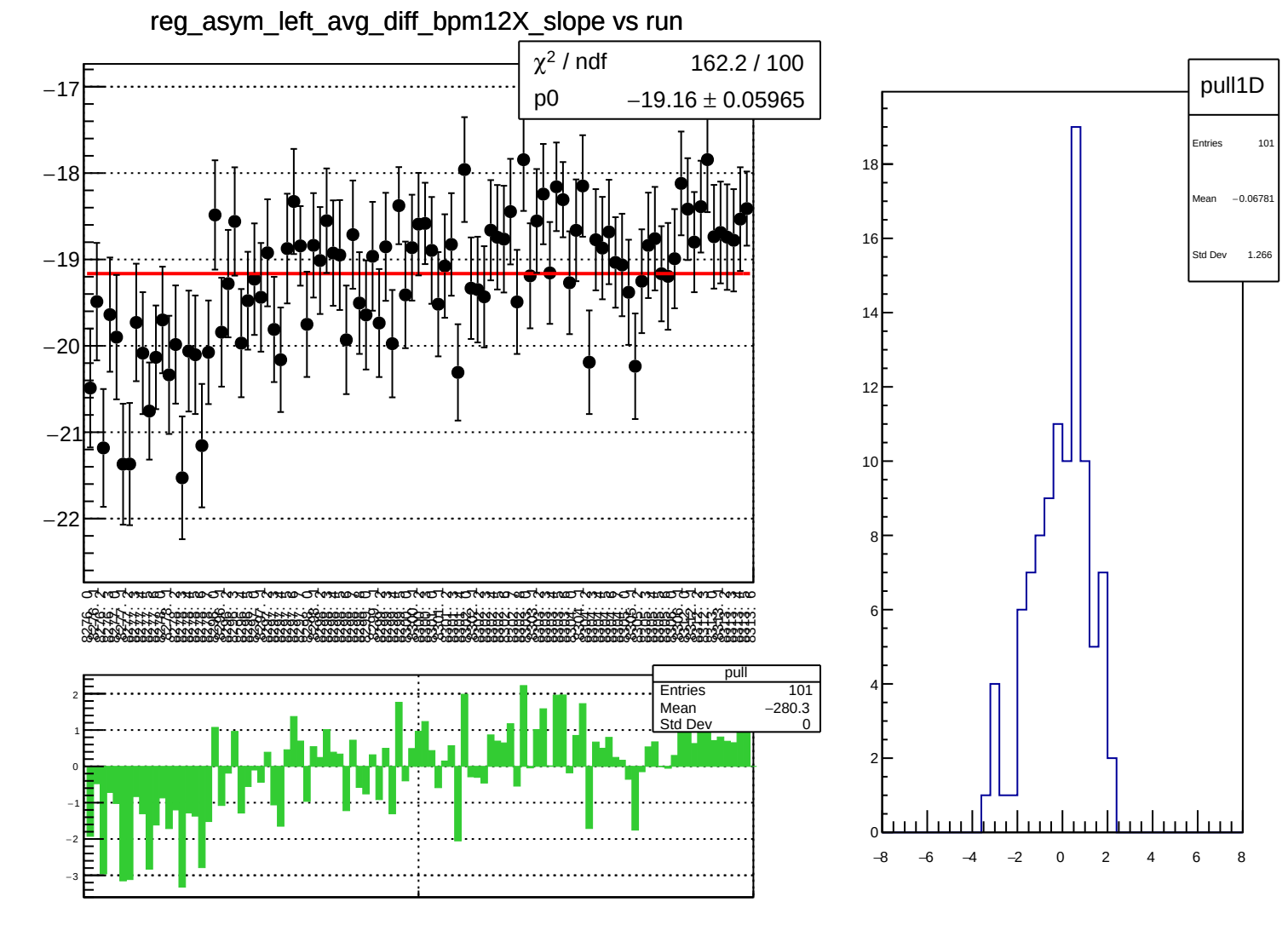

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 85.41 / 100
p0 3.747 ± 1.08
pull
Entries 101
Mean −632.7
Std Dev 0

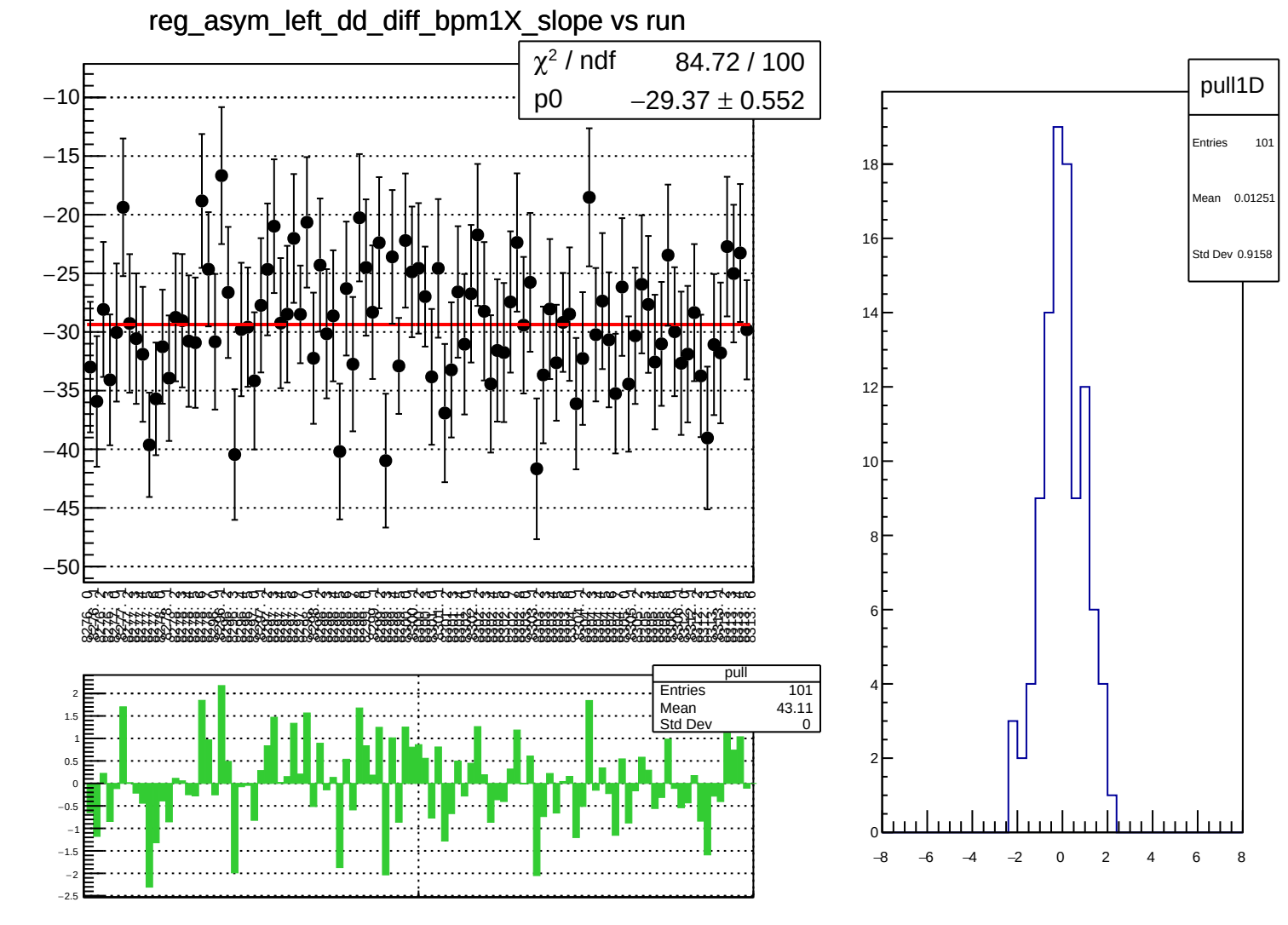

pull1D
Entries 101
Mean 0.004063
Std Dev 0.9196

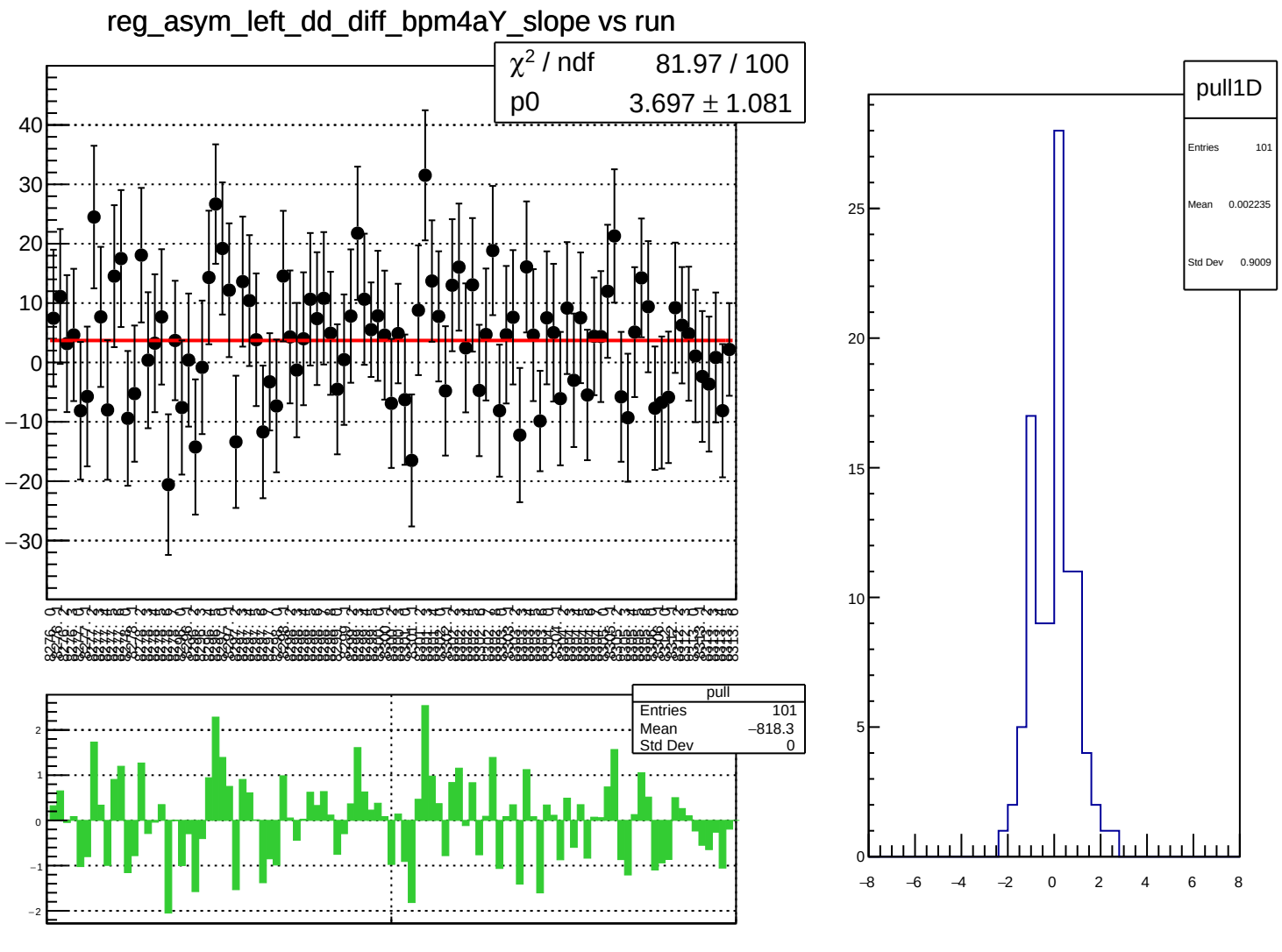

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 82.16 / 100
p0 −2.586 ± 0.6161
pull
Entries 101
Mean 101.4
Std Dev 0

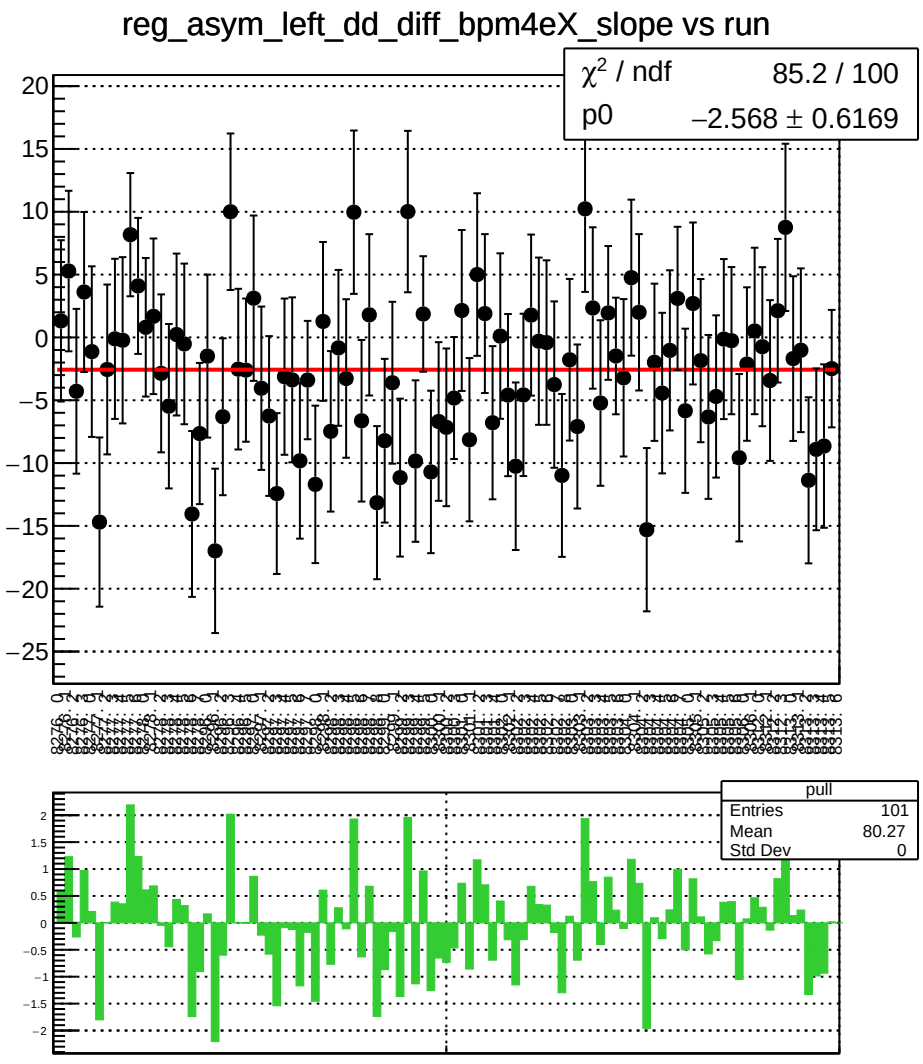

pull1D
Entries 101
Mean −0.01904
Std Dev 0.9017

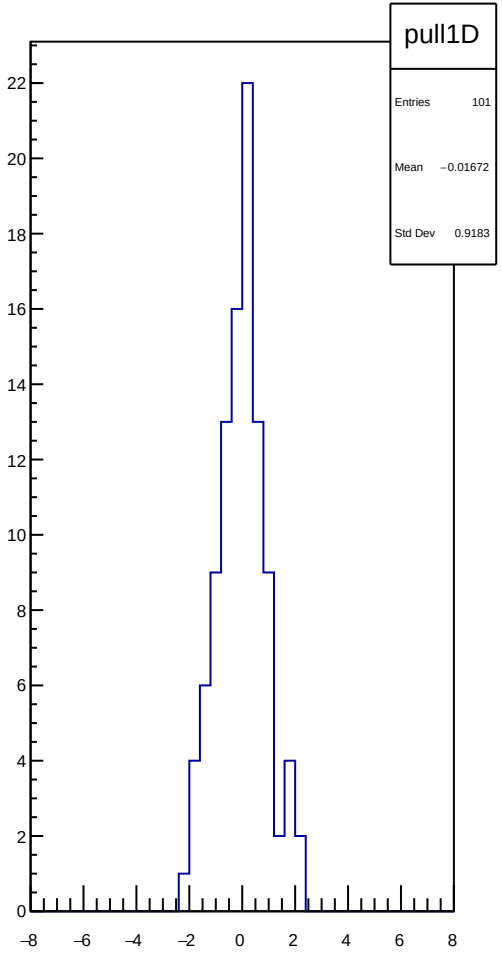

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 87.87 / 100
p0 6.658 ± 1.122
pull
Entries 101
Mean −696
Std Dev 0
pull1D
Entries 101
Mean −0.00212
Std Dev 0.9327

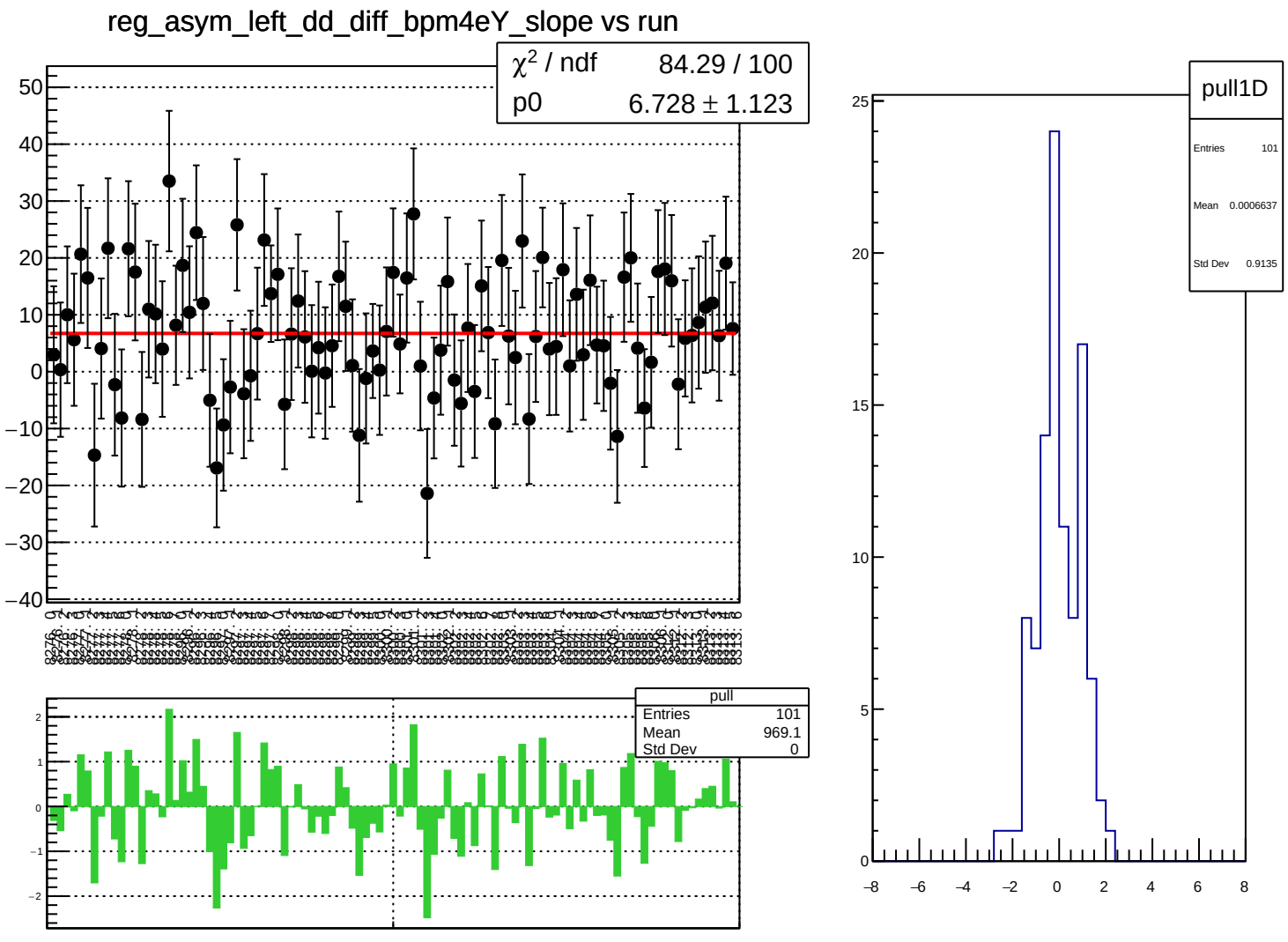

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 162.2 / 100
p0 −19.16 ± 0.05965
pull
Entries 101
Mean −280.3
Std Dev 0
pull1D
Entries 101
Mean −0.06781
Std Dev 1.266

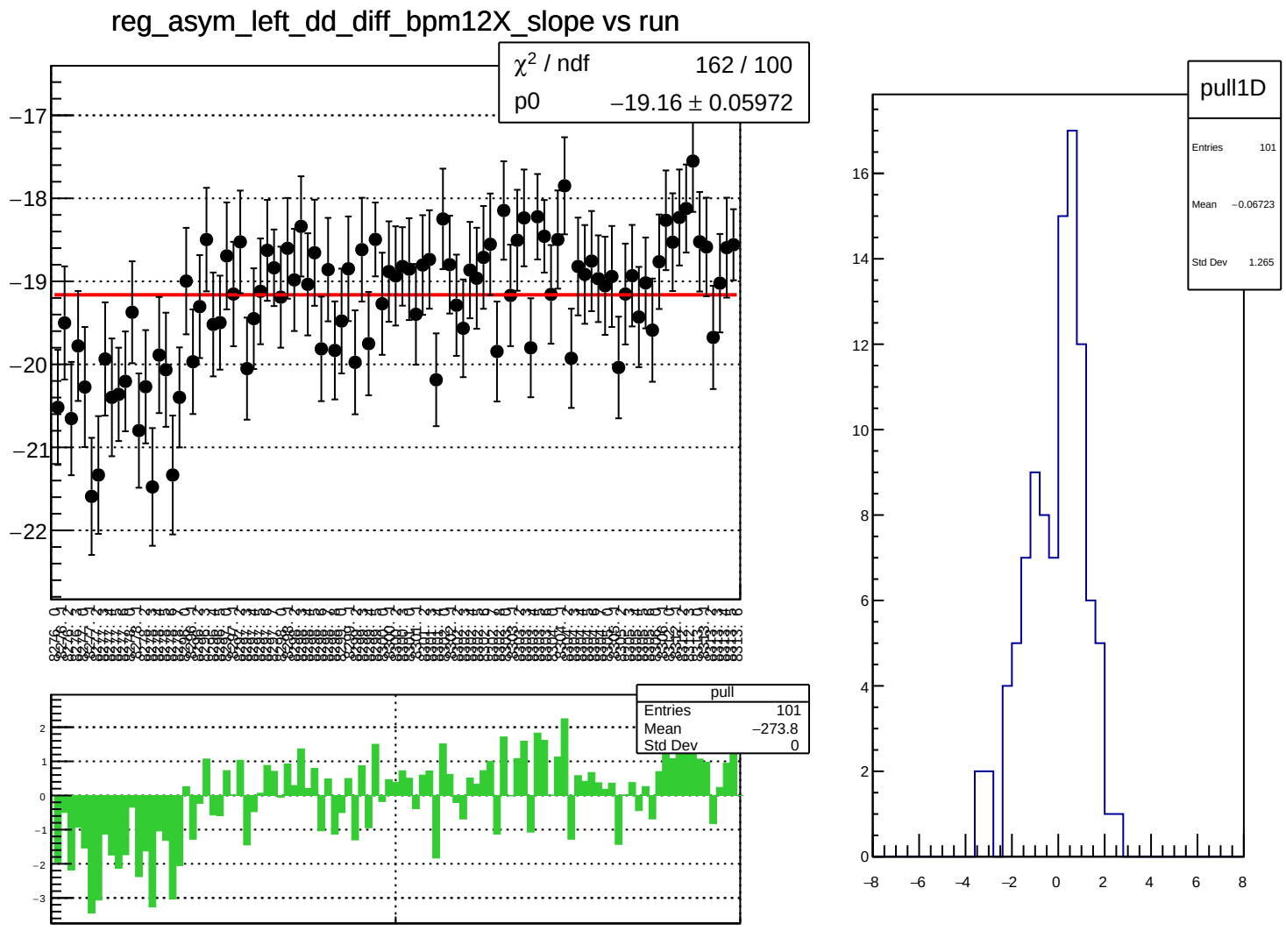

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 84.72 / 100
p0 −29.37 ± 0.552
pull
Entries 101
Mean 43.11
Std Dev 0
pull1D
Entries 101
Mean 0.01251
Std Dev 0.9158

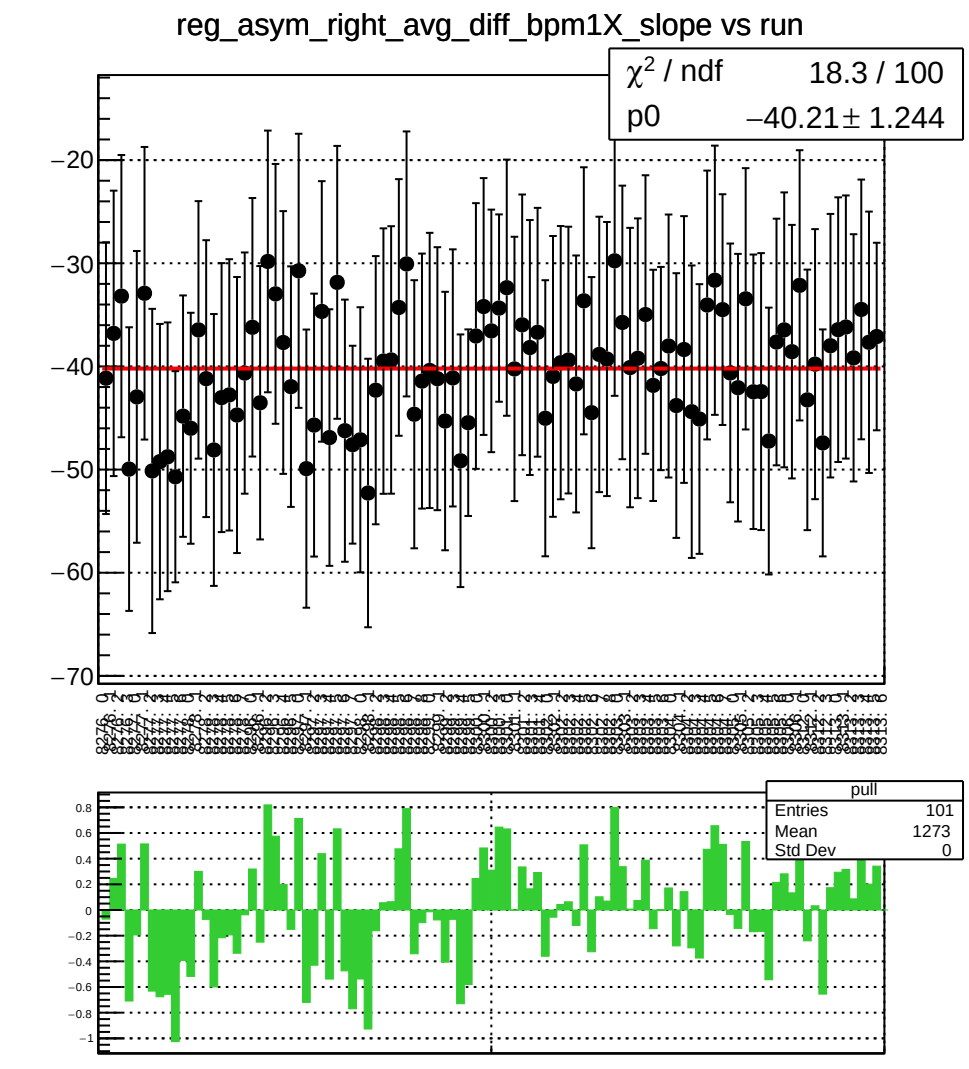

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 81.97 / 100
p0 3.697 ± 1.081
pull
Entries 101
Mean –818.3
Std Dev 0
pull1D
Entries 101
Mean 0.002235
Std Dev 0.9009

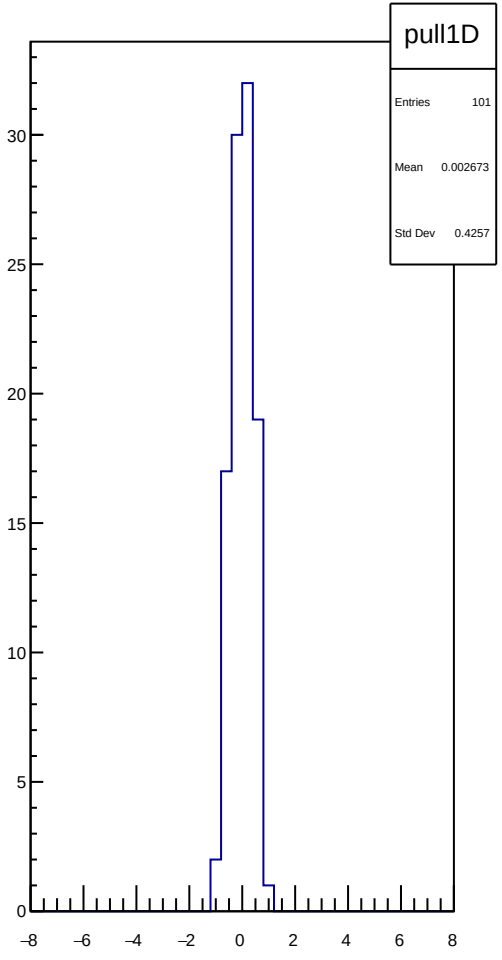

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 85.2 / 100
p0 −2.568 ± 0.6169
pull
Entries 101
Mean 80.27
Std Dev 0

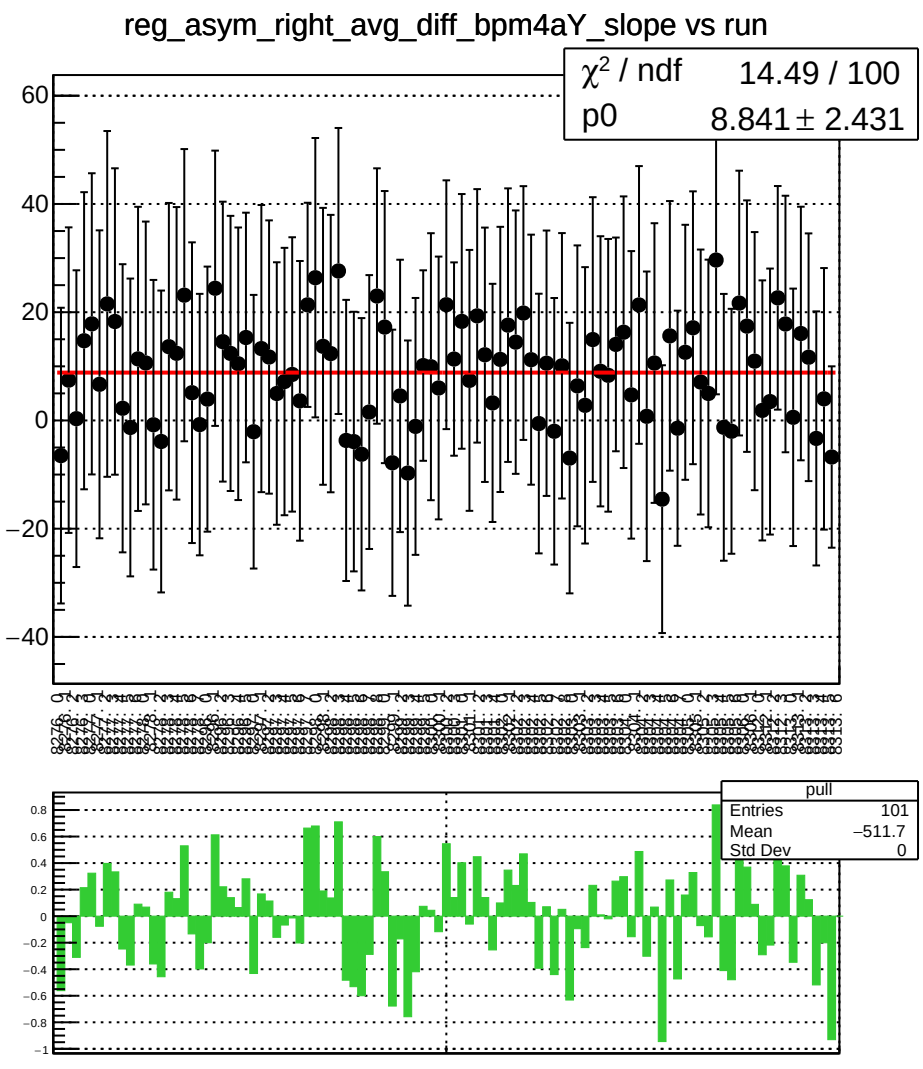

pull1D
Entries 101
Mean −0.01672
Std Dev 0.9183

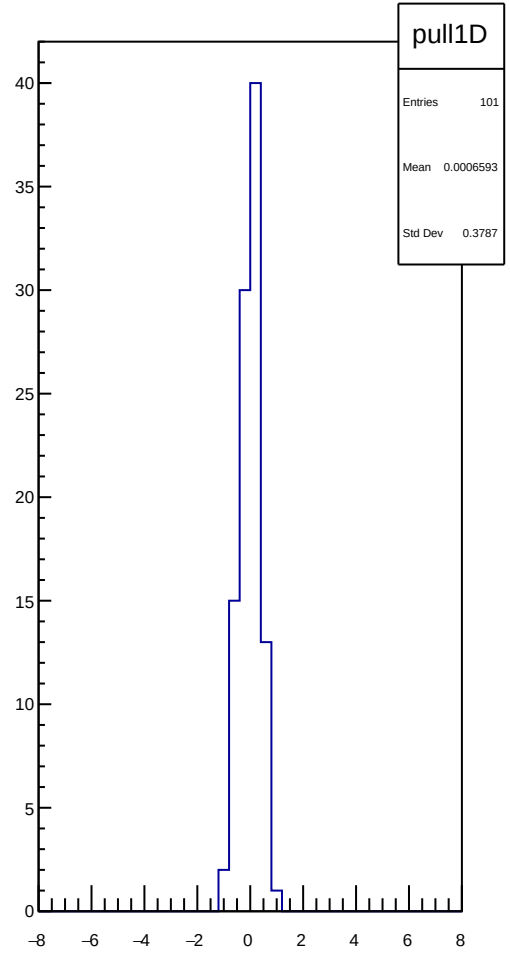

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 84.29 / 100
p0 6.728 ± 1.123
pull
Entries 101
Mean 969.1
Std Dev 0
pull1D
Entries 101
Mean 0.0006637
Std Dev 0.9135

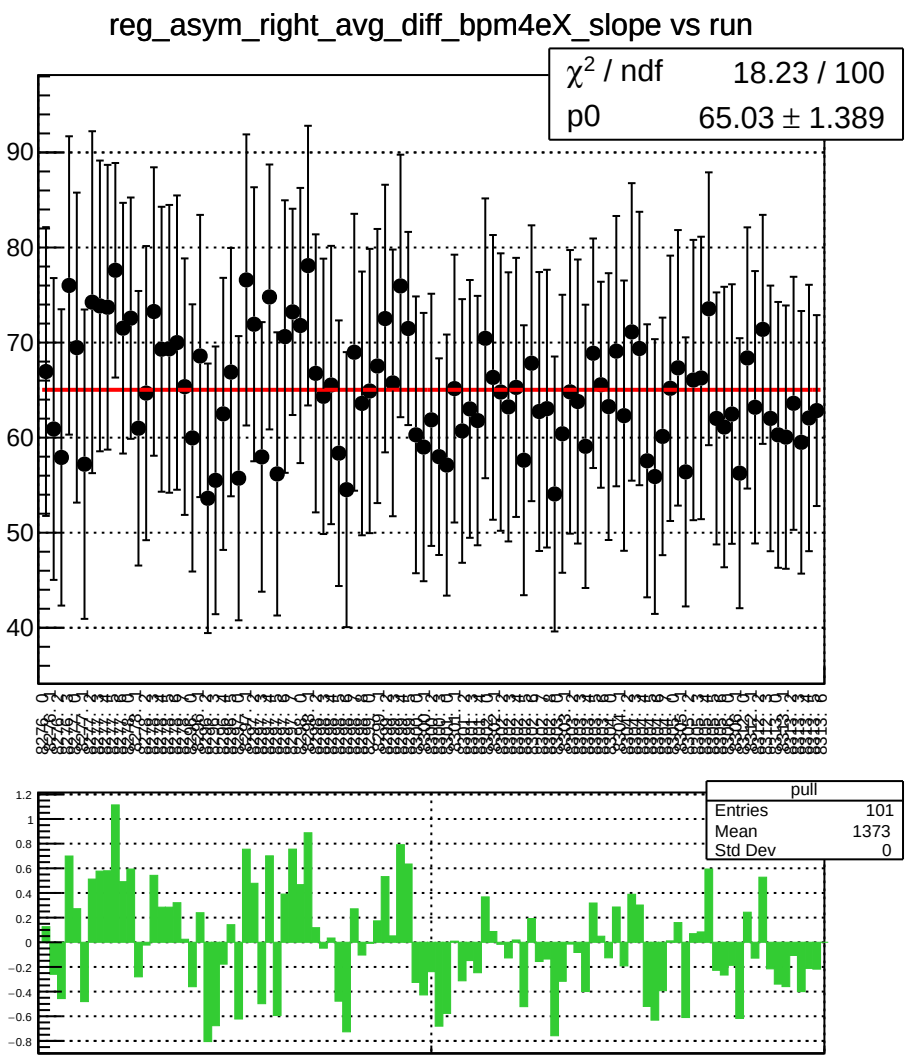

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 162 / 100
p0 −19.16 ± 0.05972
pull
Entries 101
Mean −273.8
Std Dev 0
pull1D
Entries 101
Mean −0.06723
Std Dev 1.265

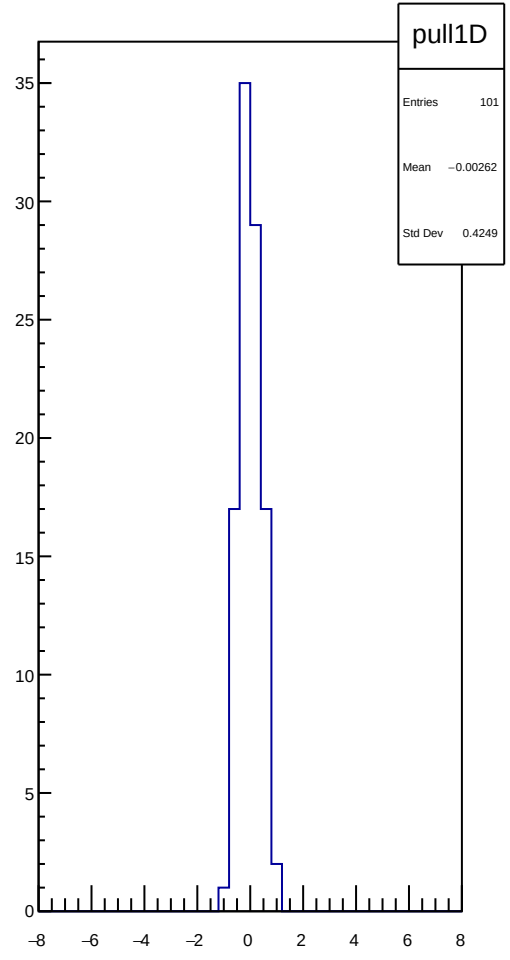

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 18.3 / 100
p0 −40.21 ± 1.244
pull
Entries 101
Mean 1273
Std Dev 0

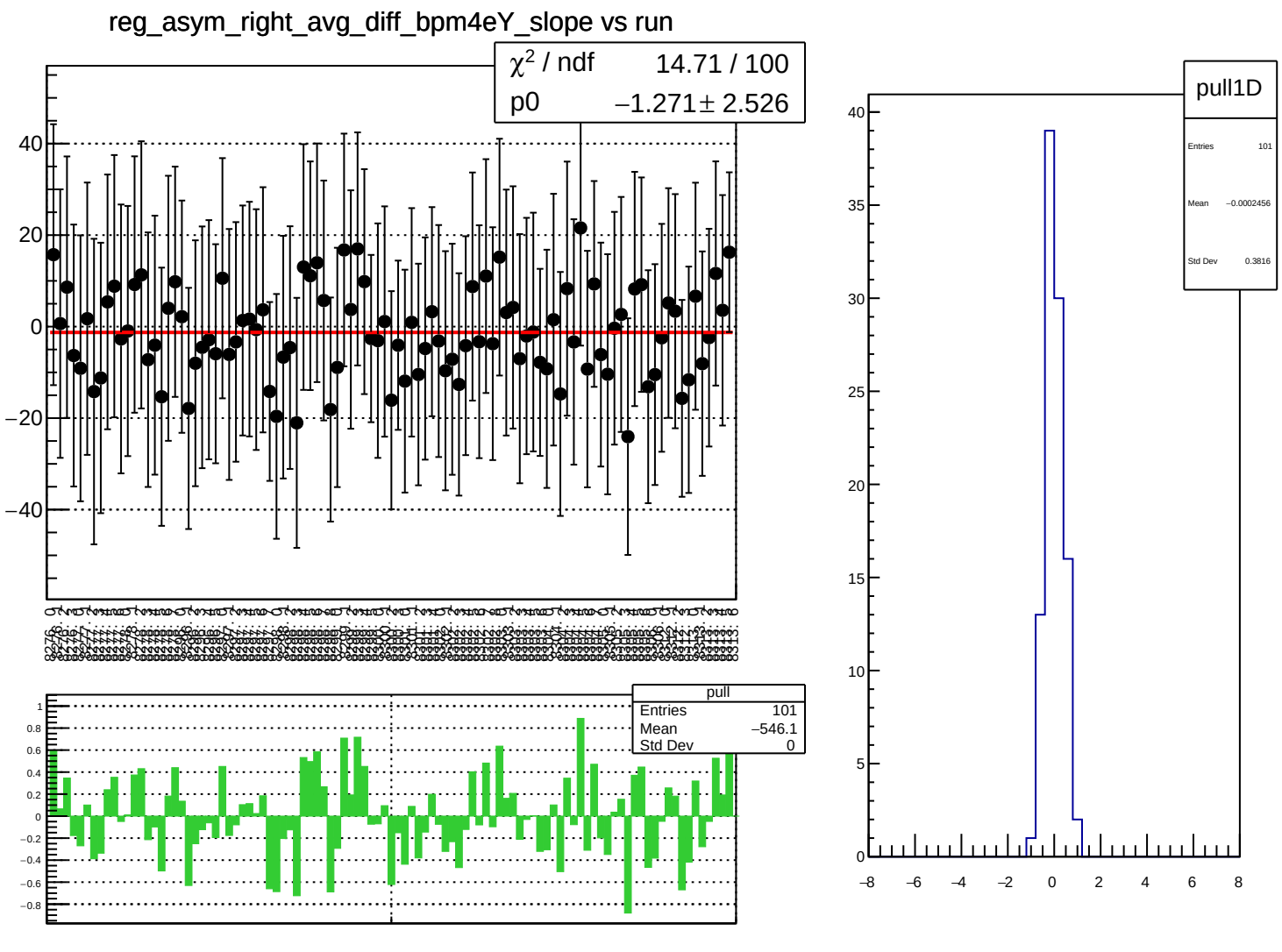

pull1D
Entries 101
Mean 0.002673
Std Dev 0.4257

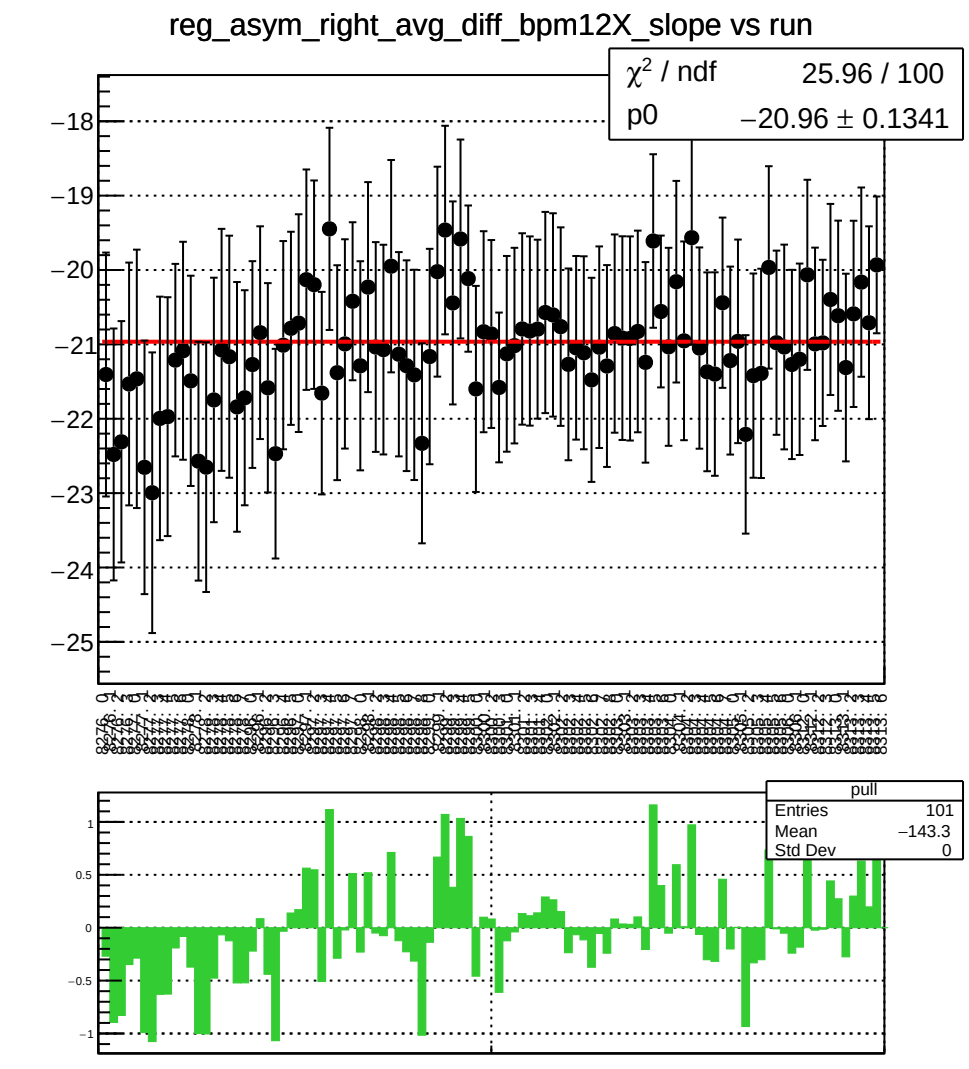

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.49 / 100
p0 8.841 ± 2.431
pull
Entries 101
Mean −511.7
Std Dev 0

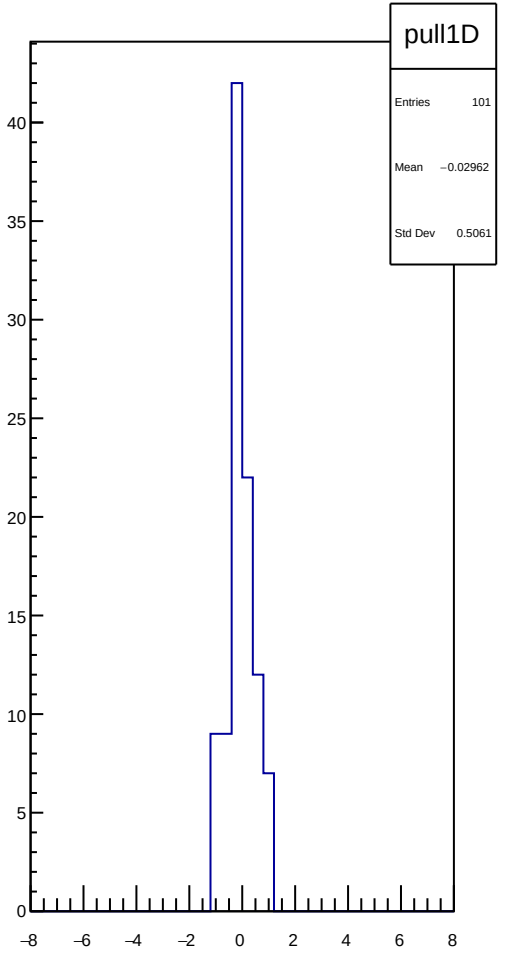

pull1D
Entries 101
Mean 0.0006593
Std Dev 0.3787

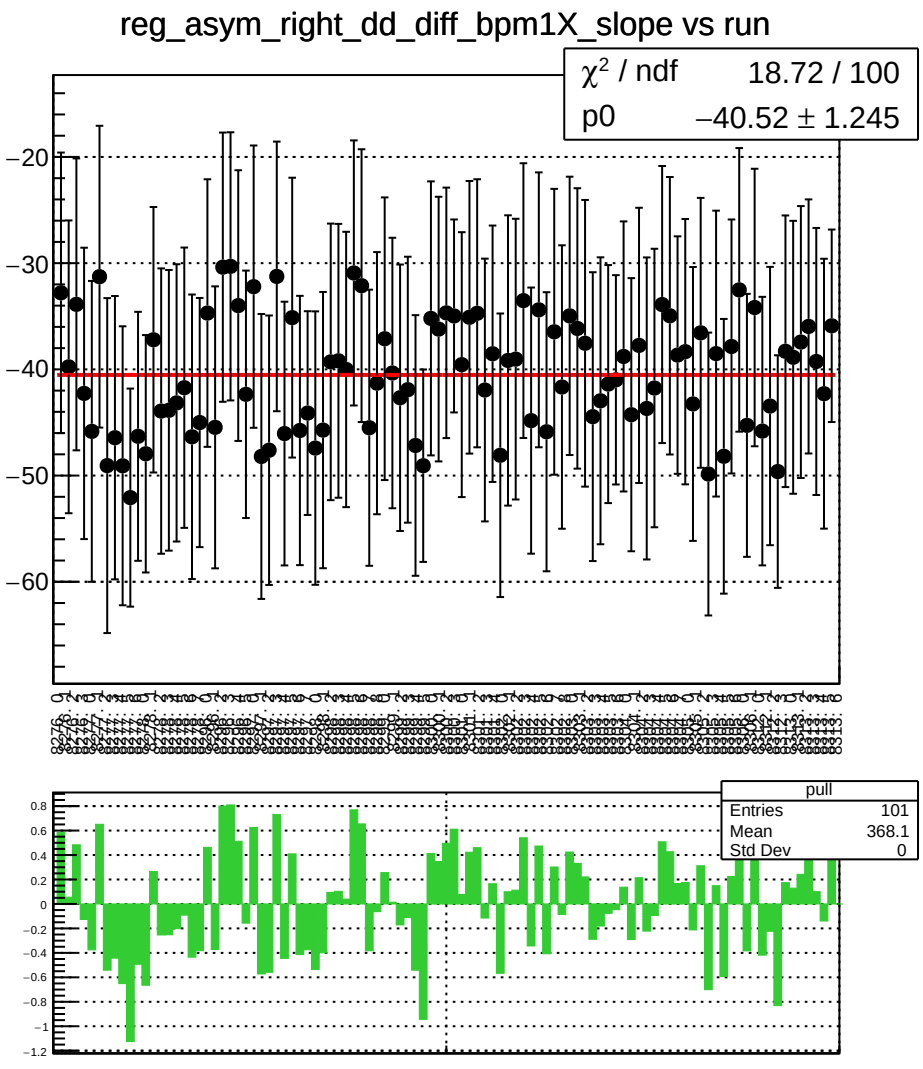

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 18.23 / 100
p0 65.03 ± 1.389
pull
Entries 101
Mean 1373
Std Dev 0

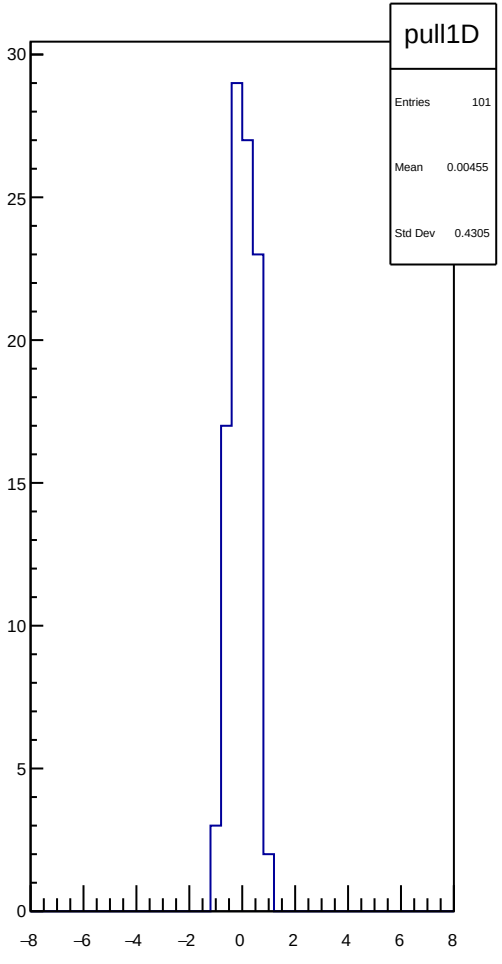

pull1D
Entries 101
Mean −0.00262
Std Dev 0.4249

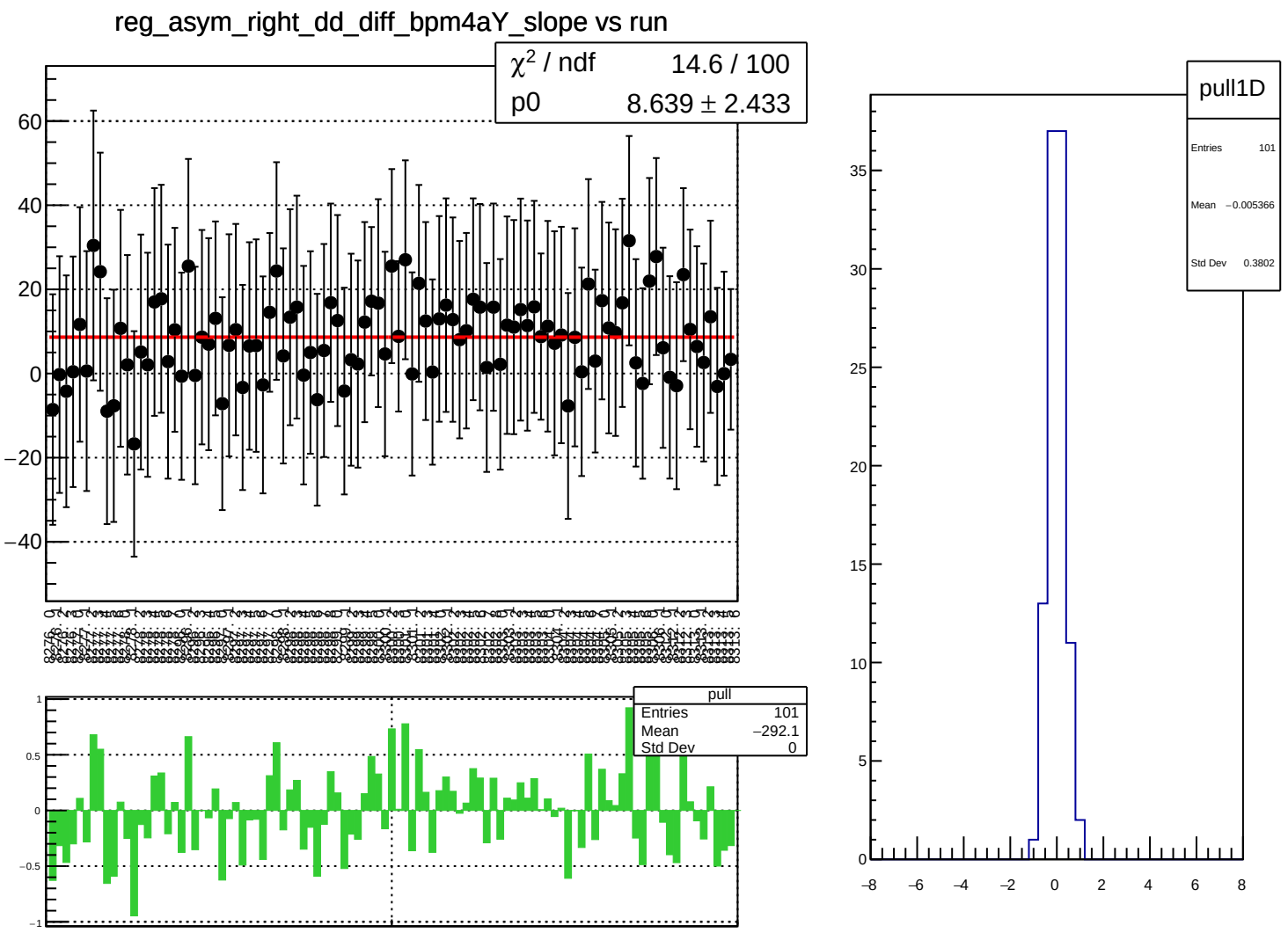

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.71 / 100
p0 −1.271± 2.526
pull
Entries 101
Mean −546.1
Std Dev 0
pull1D
Entries 101
Mean −0.0002456
Std Dev 0.3816

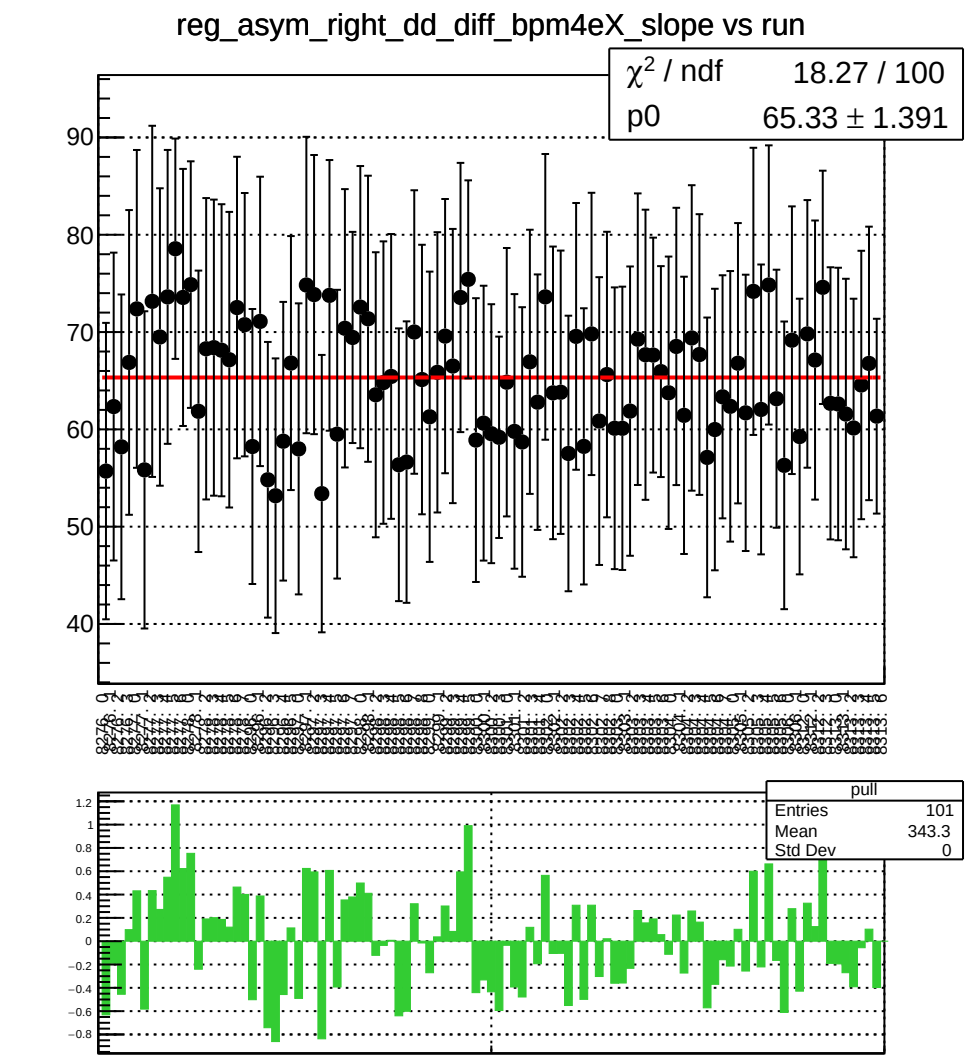

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 25.96 / 100
p0 −20.96 ± 0.1341
pull
Entries 101
Mean −143.3
Std Dev 0

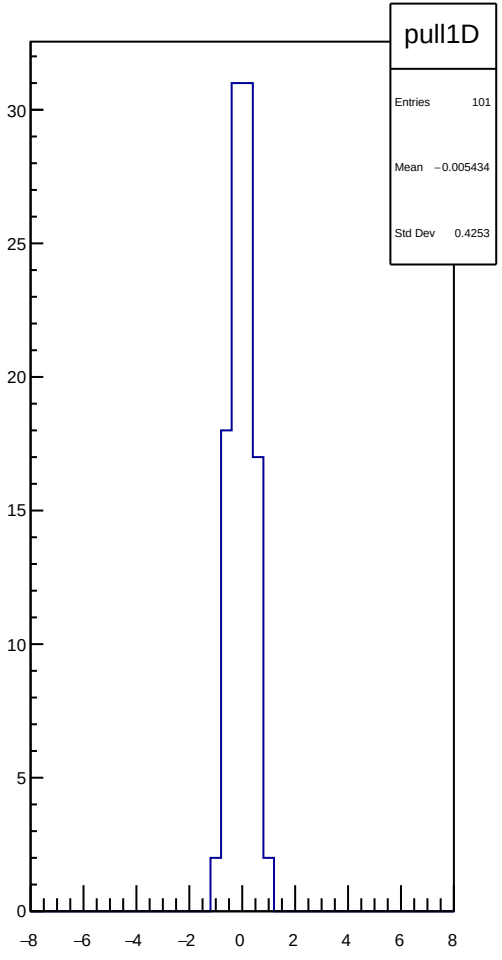

pull1D
Entries 101
Mean −0.02962
Std Dev 0.5061

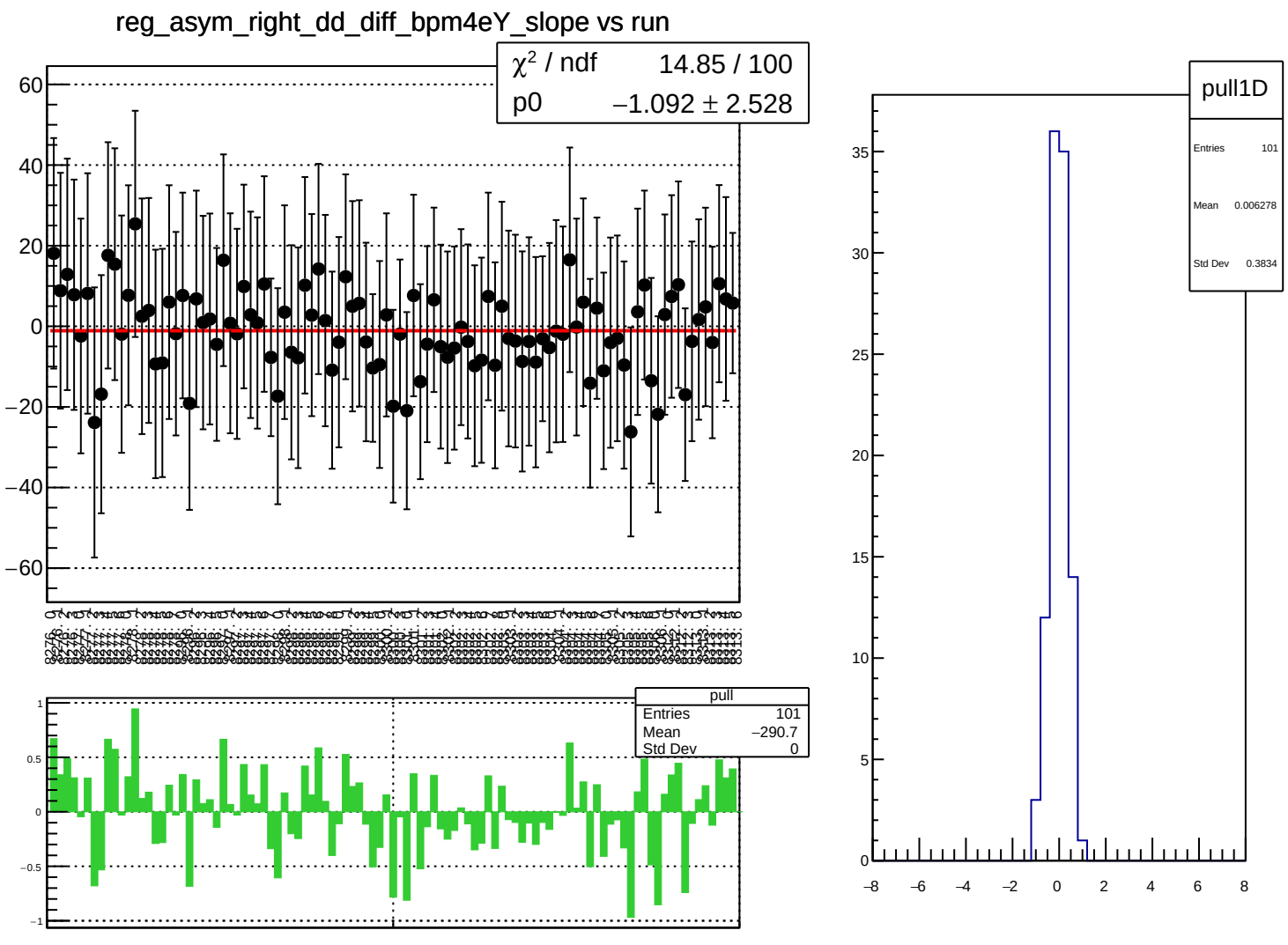

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 18.72 / 100
p0 −40.52 ± 1.245
pull
Entries 101
Mean 368.1
Std Dev 0

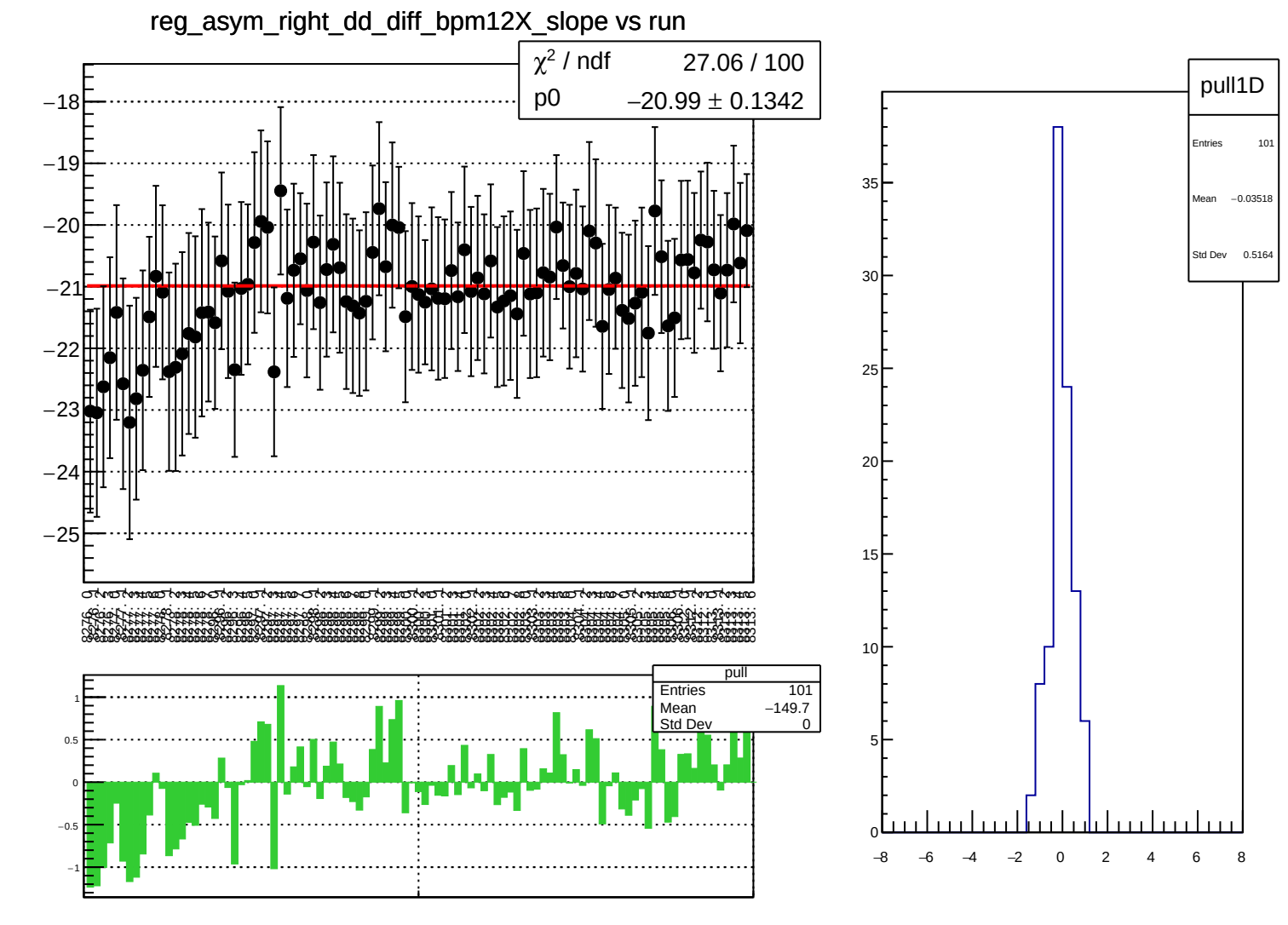

pull1D
Entries 101
Mean 0.00455
Std Dev 0.4305

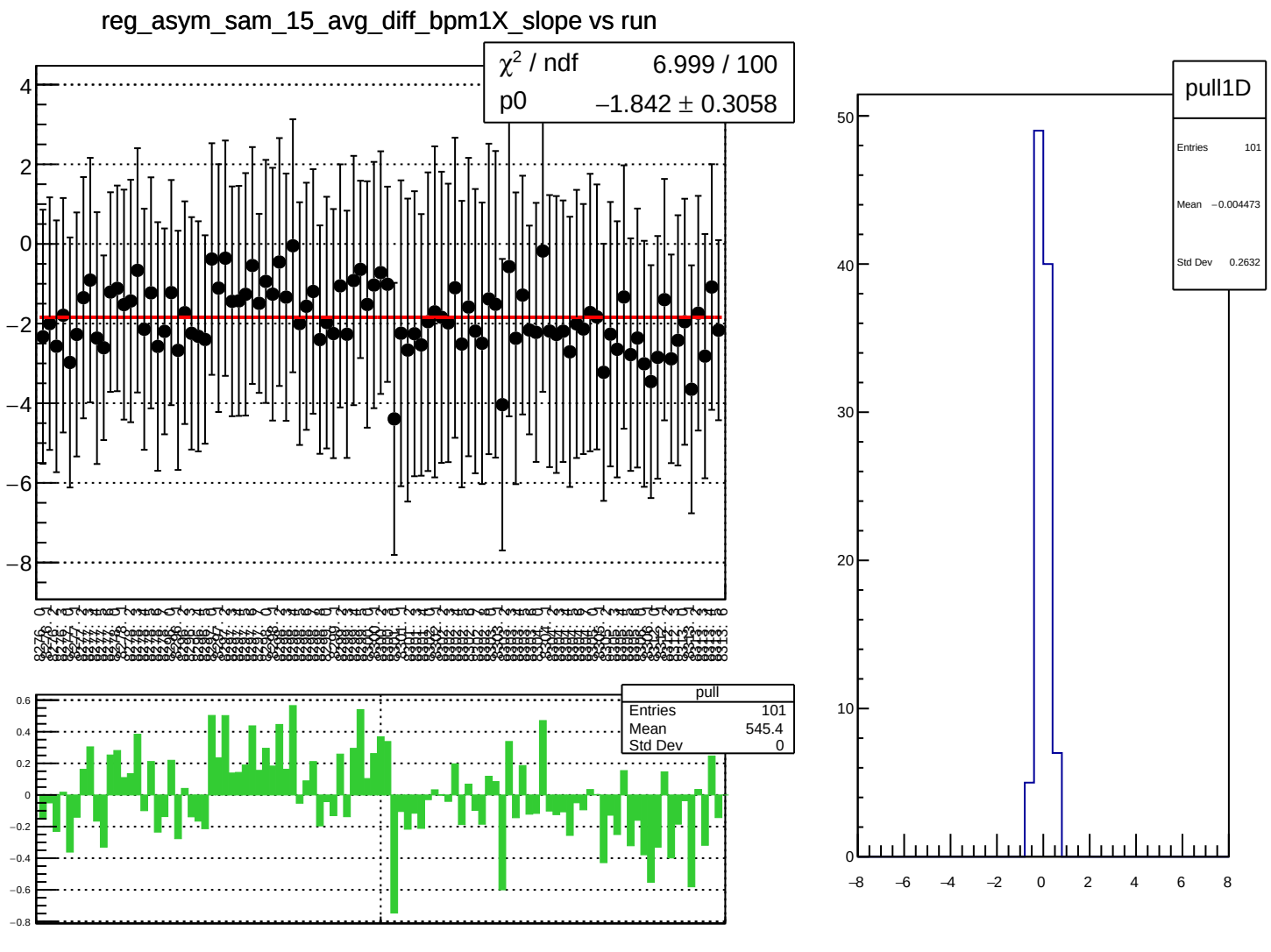

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.6 / 100
p0 8.639 ± 2.433
pull
Entries 101
Mean −292.1
Std Dev 0
pull1D
Entries 101
Mean −0.005366
Std Dev 0.3802

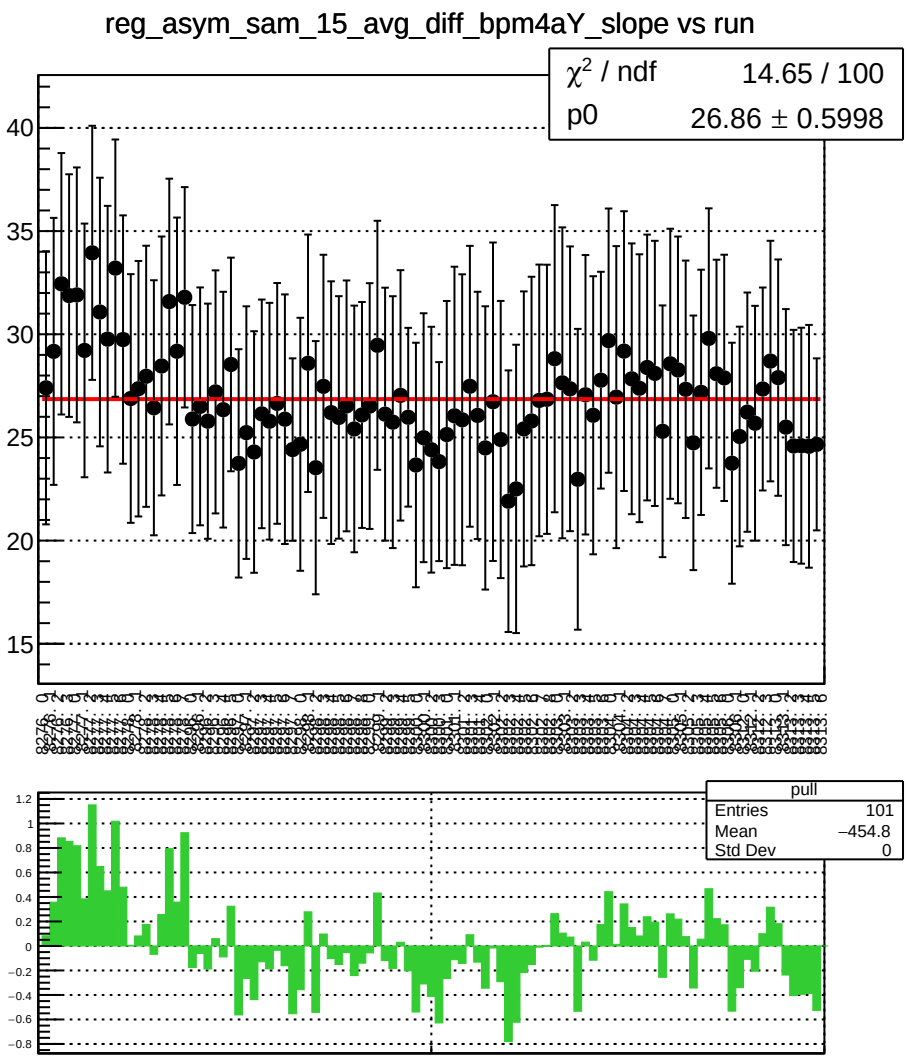

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 18.27 / 100
p0 65.33 ± 1.391
pull
Entries 101
Mean 343.3
Std Dev 0

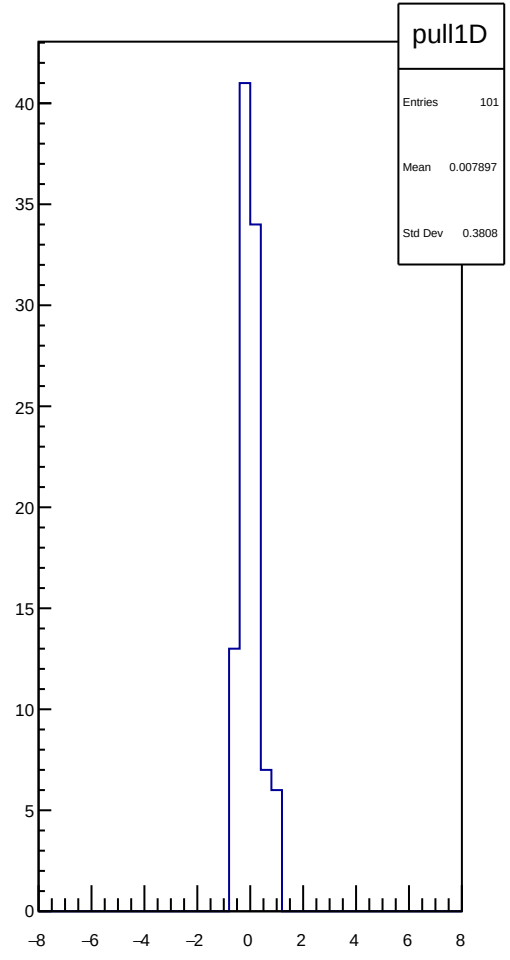

pull1D
Entries 101
Mean −0.005434
Std Dev 0.4253

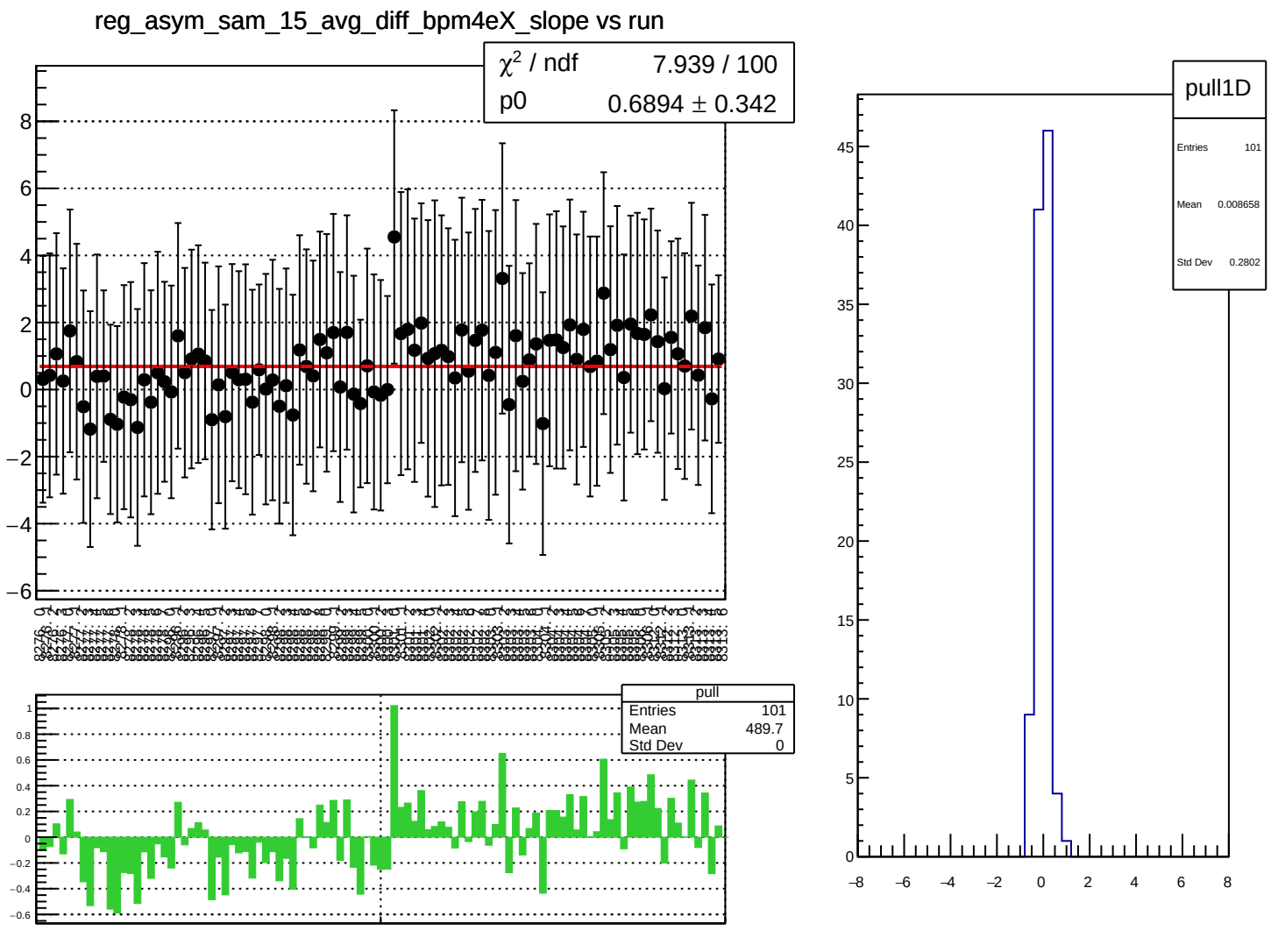

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.85 / 100
p0 −1.092 ± 2.528
pull
Entries 101
Mean −290.7
Std Dev 0
pull1D
Entries 101
Mean 0.006278
Std Dev 0.3834

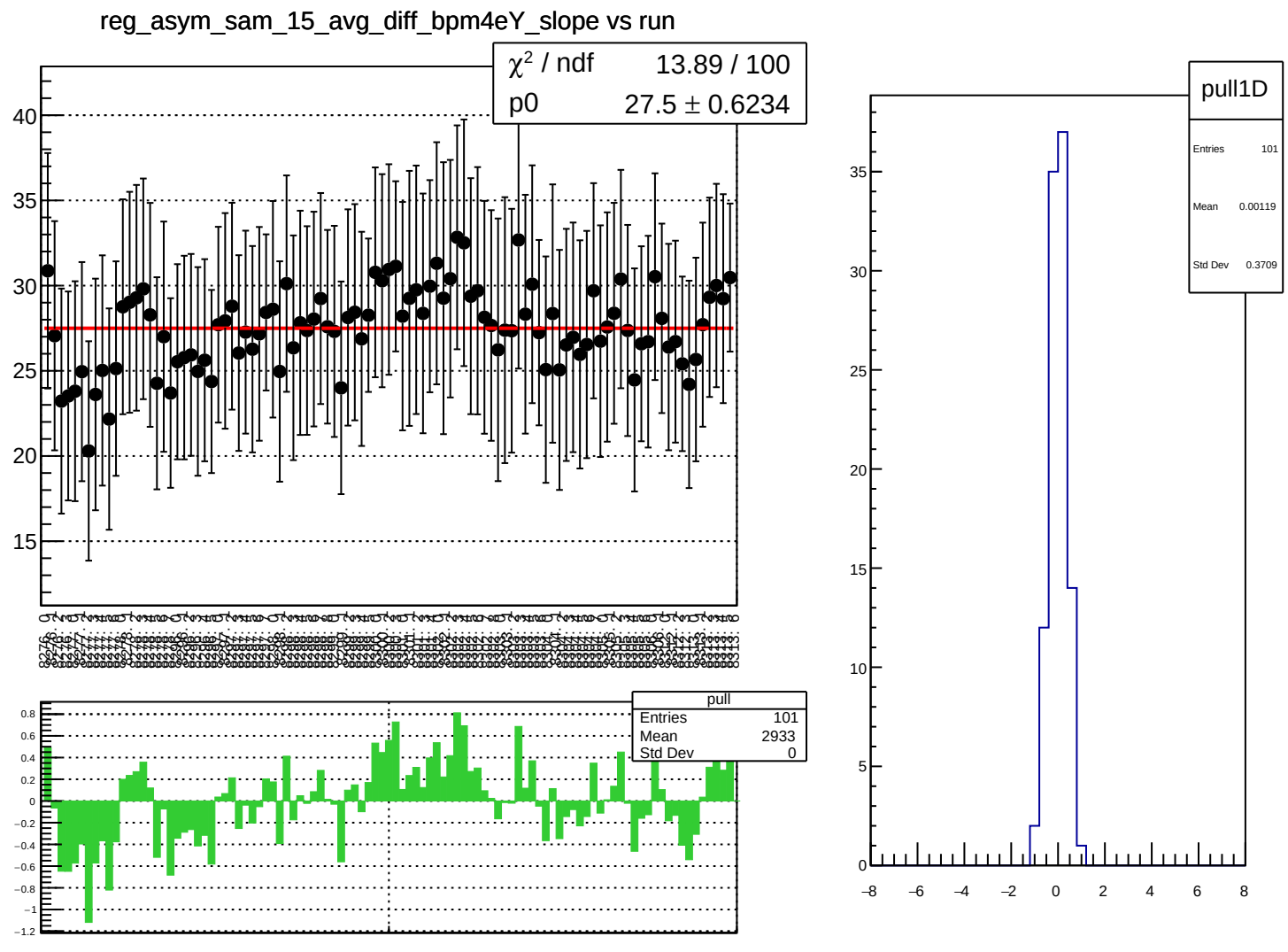

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 27.06 / 100
p0 −20.99 ± 0.1342
pull
Entries 101
Mean −149.7
Std Dev 0
pull1D
Entries 101
Mean −0.03518
Std Dev 0.5164

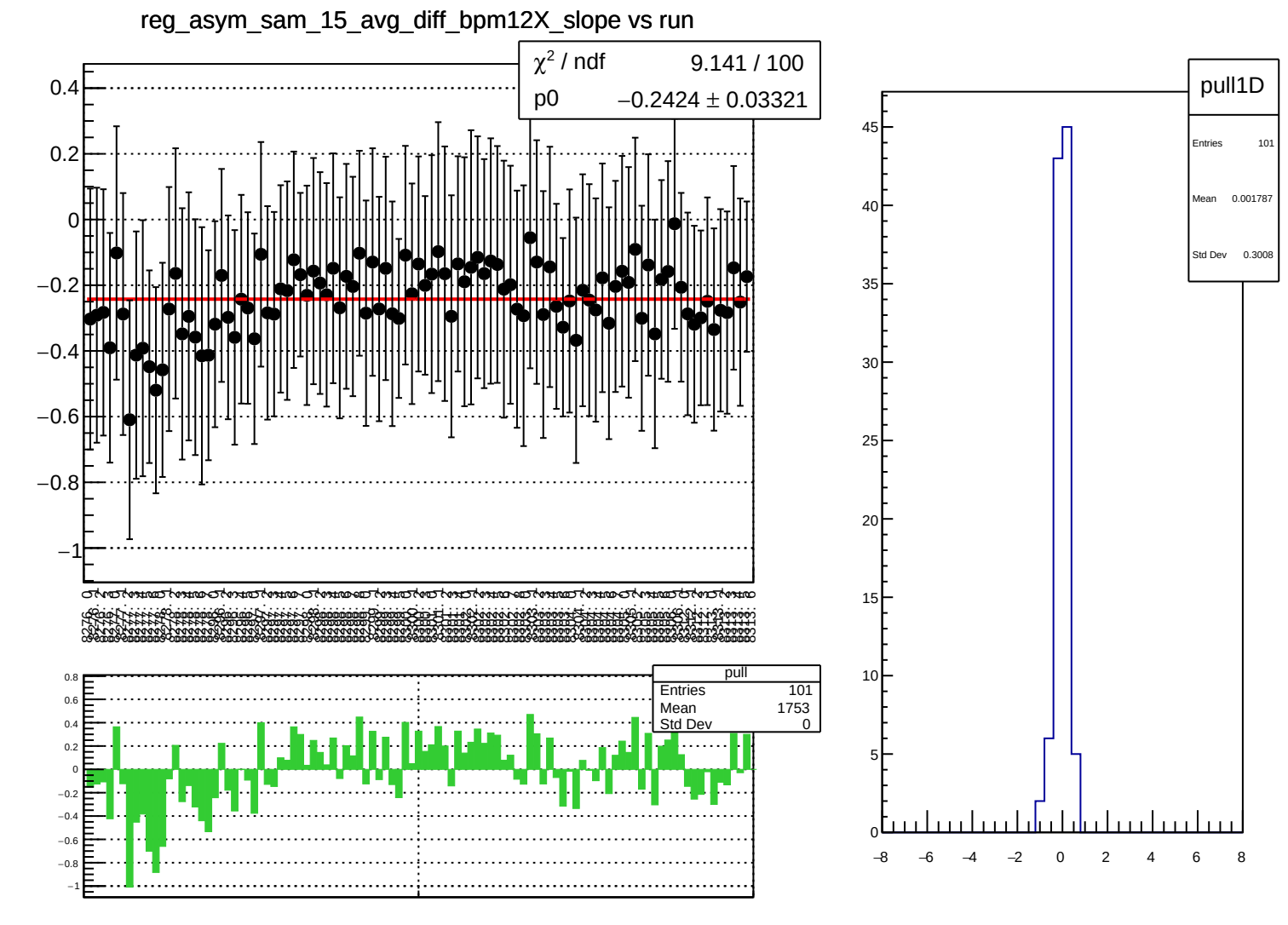

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 6.999 / 100
p0 −1.842 ± 0.3058
pull
Entries 101
Mean 545.4
Std Dev 0
pull1D
Entries 101
Mean −0.004473
Std Dev 0.2632

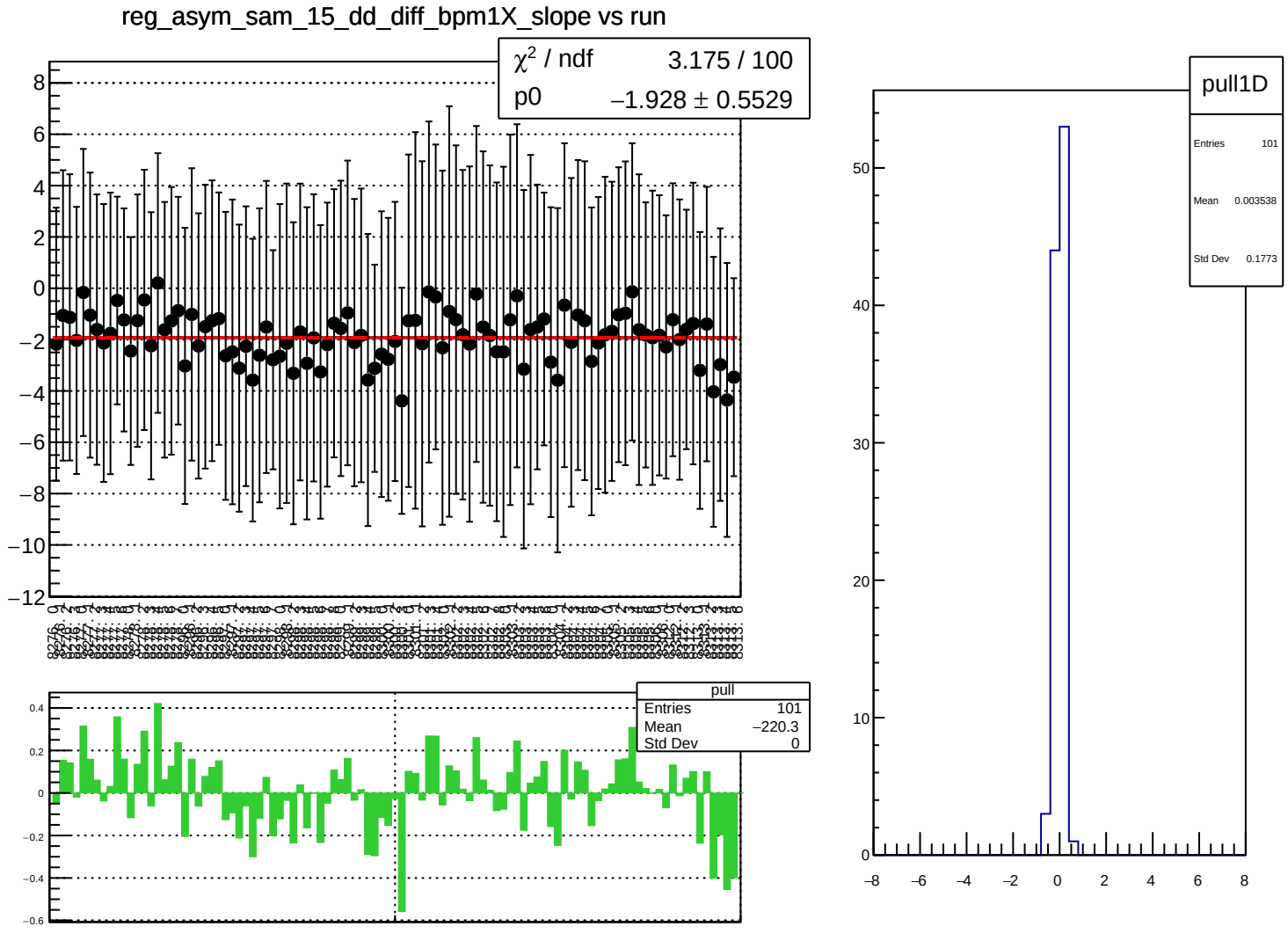

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.65 / 100
p0 26.86 ± 0.5998
pull
Entries 101
Mean −454.8
Std Dev 0

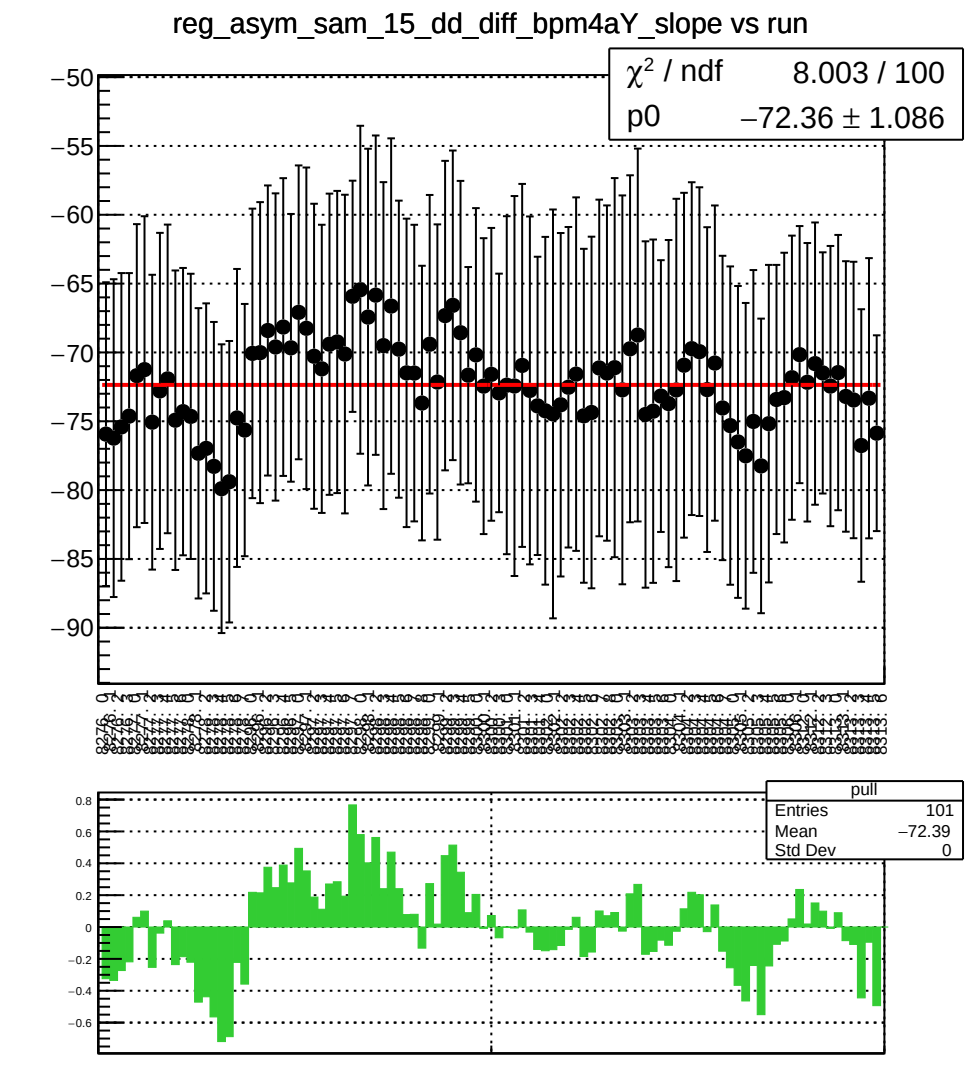

pull1D
Entries 101
Mean 0.007897
Std Dev 0.3808

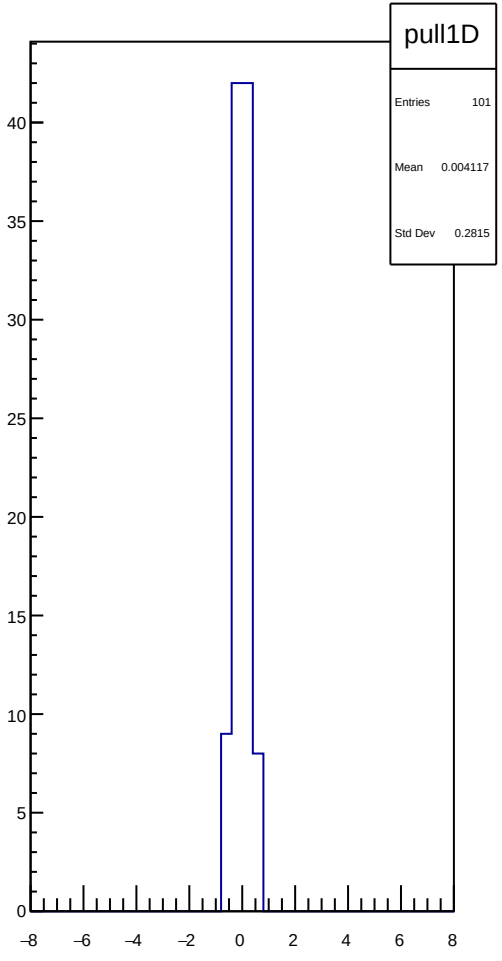

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.939 / 100
p0 0.6894 ± 0.342
pull
Entries 101
Mean 489.7
Std Dev 0
pull1D
Entries 101
Mean 0.008658
Std Dev 0.2802

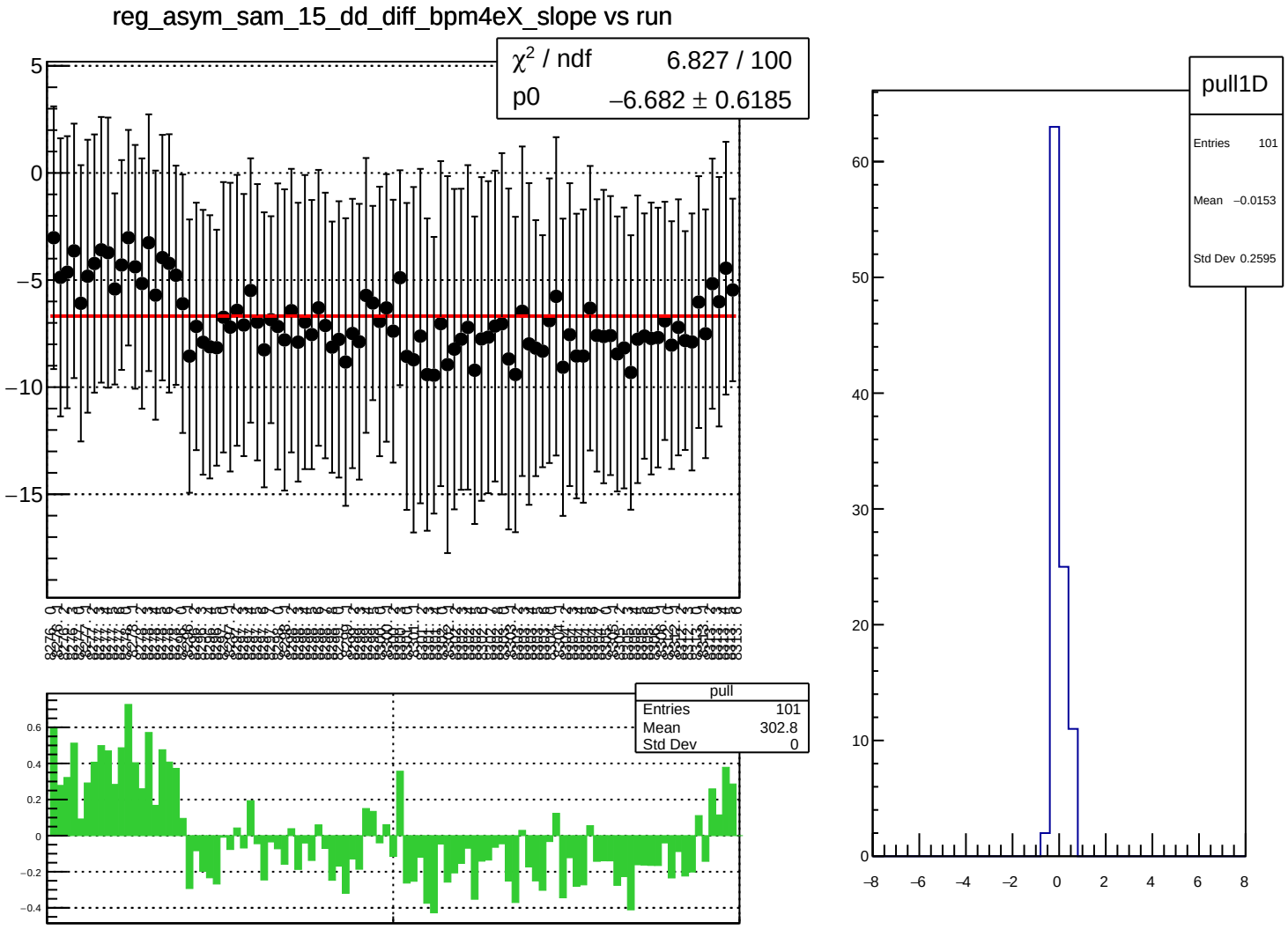

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.89 / 100
p0 27.5 ± 0.6234
pull
Entries 101
Mean 2933
Std Dev 0
pull1D
Entries 101
Mean 0.00119
Std Dev 0.3709

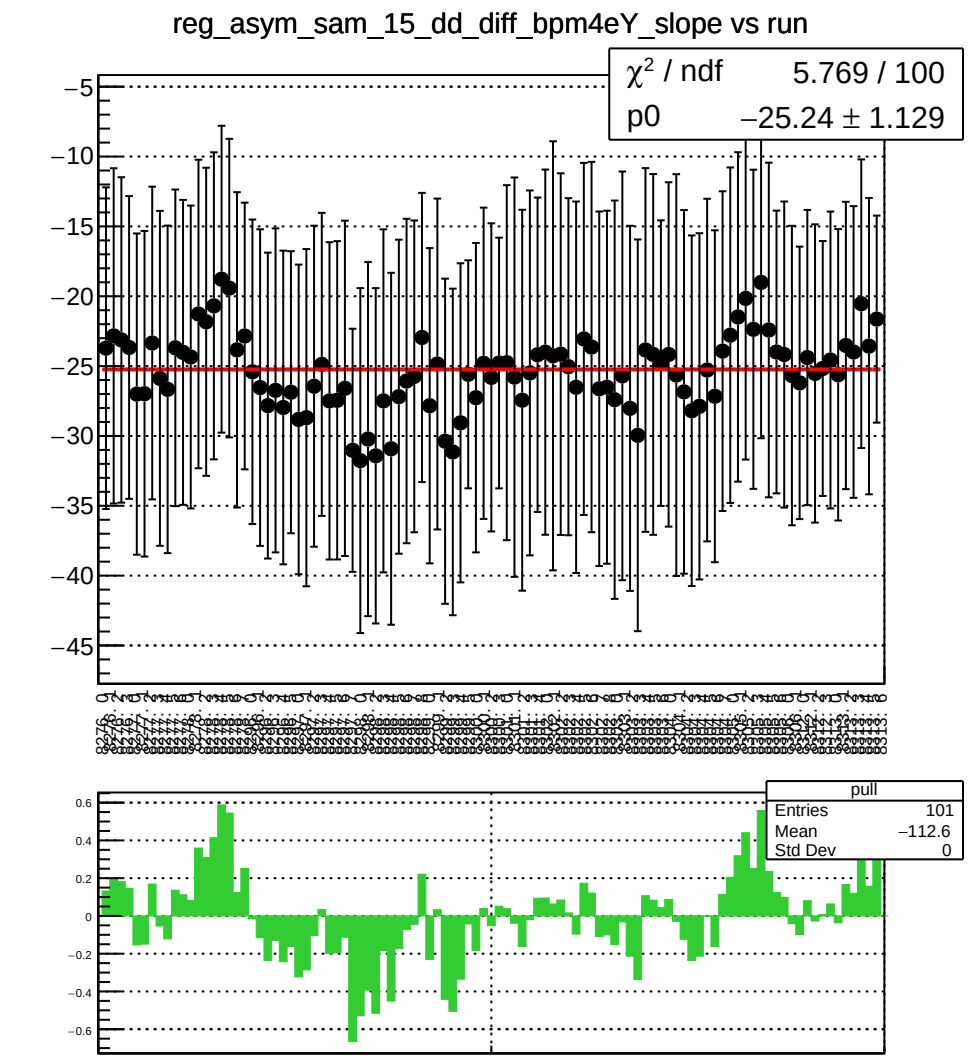

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 9.141 / 100
p0 −0.2424 ± 0.03321
pull
Entries 101
Mean 1753
Std Dev 0
pull1D
Entries 101
Mean 0.001787
Std Dev 0.3008

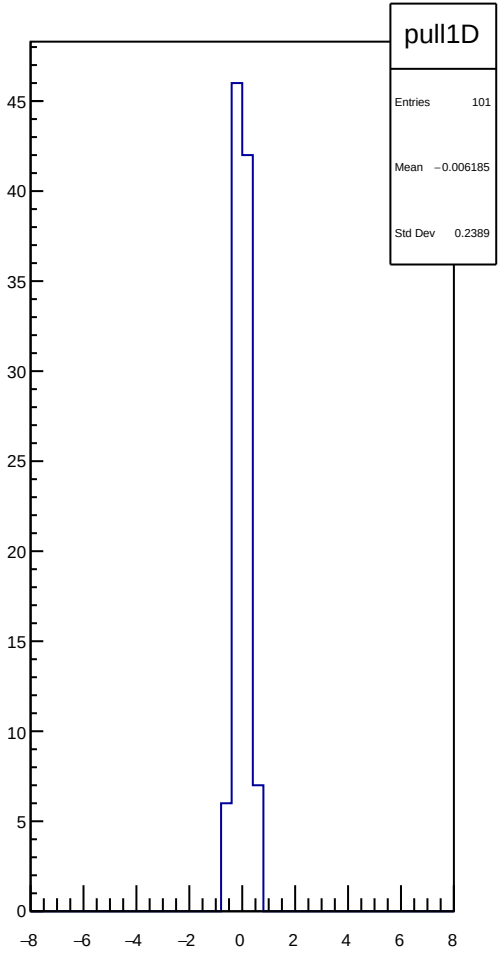

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 3.175 / 100
p0 −1.928 ± 0.5529
pull
Entries 101
Mean −220.3
Std Dev 0
pull1D
Entries 101
Mean 0.003538
Std Dev 0.1773

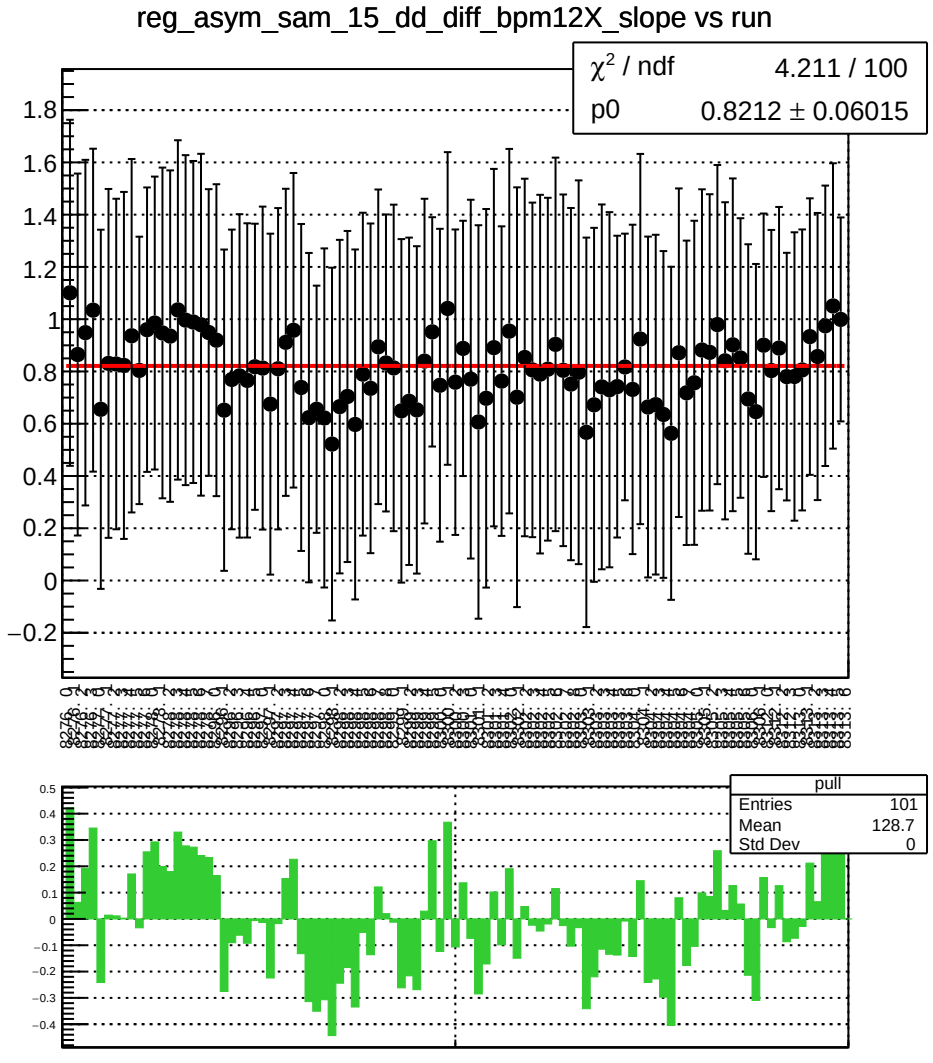

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.003 / 100
p0 −72.36 ± 1.086
pull
Entries 101
Mean −72.39
Std Dev 0

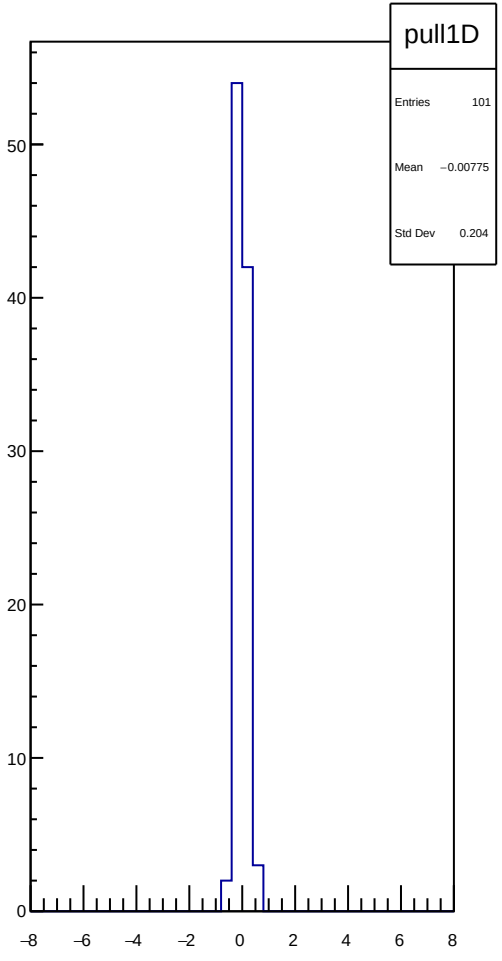

pull1D
Entries 101
Mean 0.004117
Std Dev 0.2815

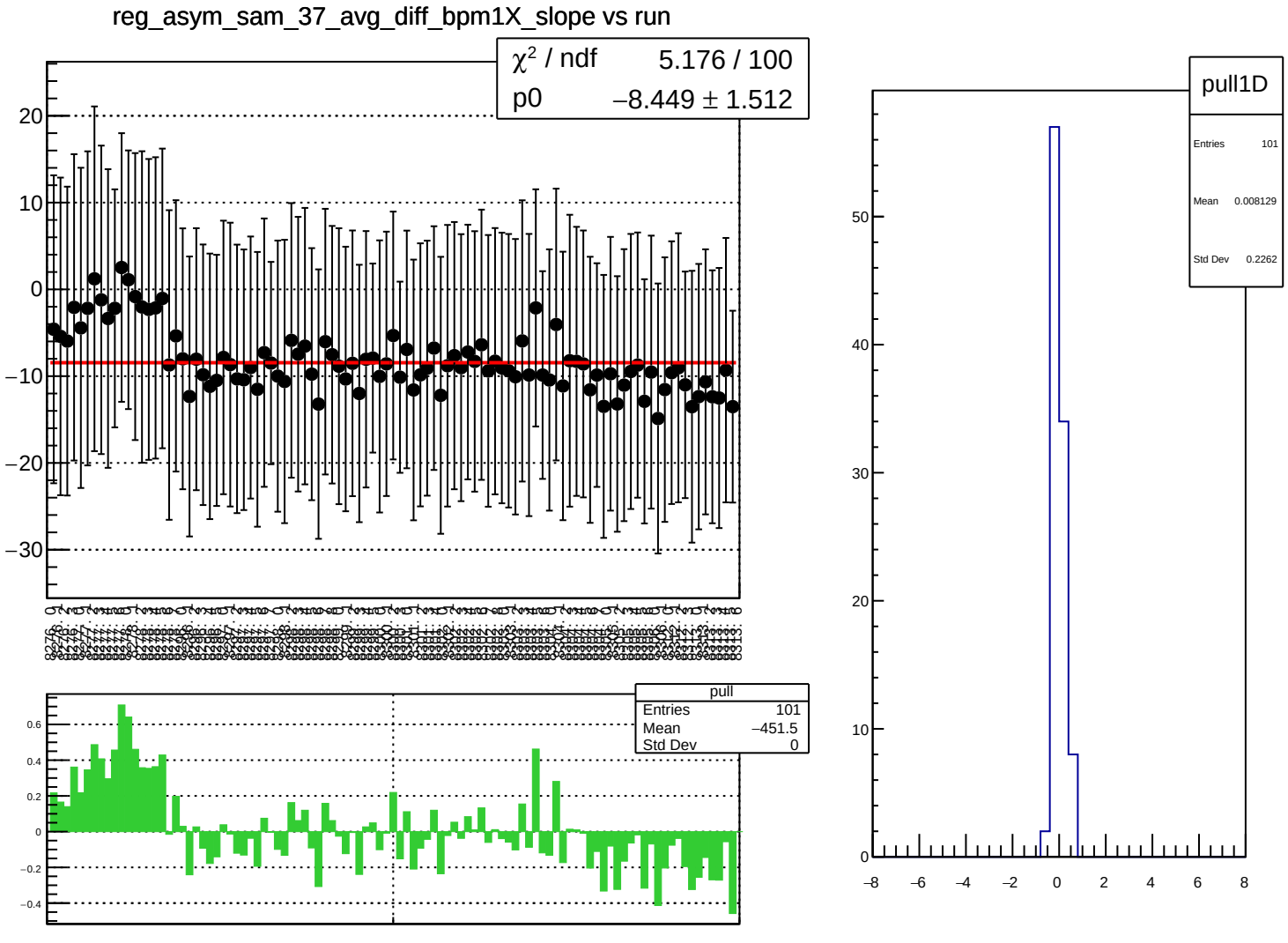

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.827 / 100
p0 −6.682 ± 0.6185
pull
Entries 101
Mean 302.8
Std Dev 0
pull1D
Entries 101
Mean −0.0153
Std Dev 0.2595

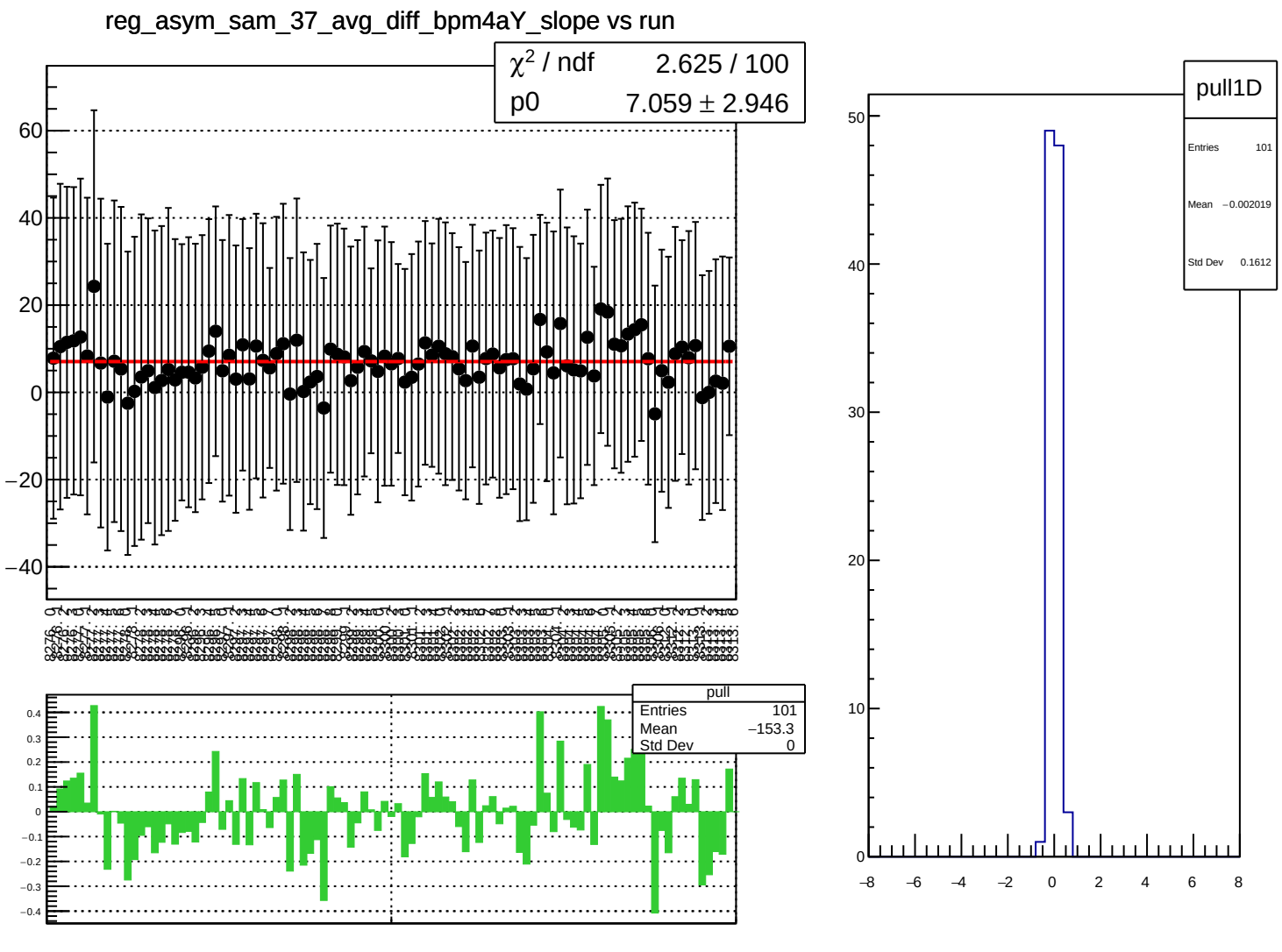

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.769 / 100
p0 −25.24 ± 1.129
pull
Entries 101
Mean −112.6
Std Dev 0

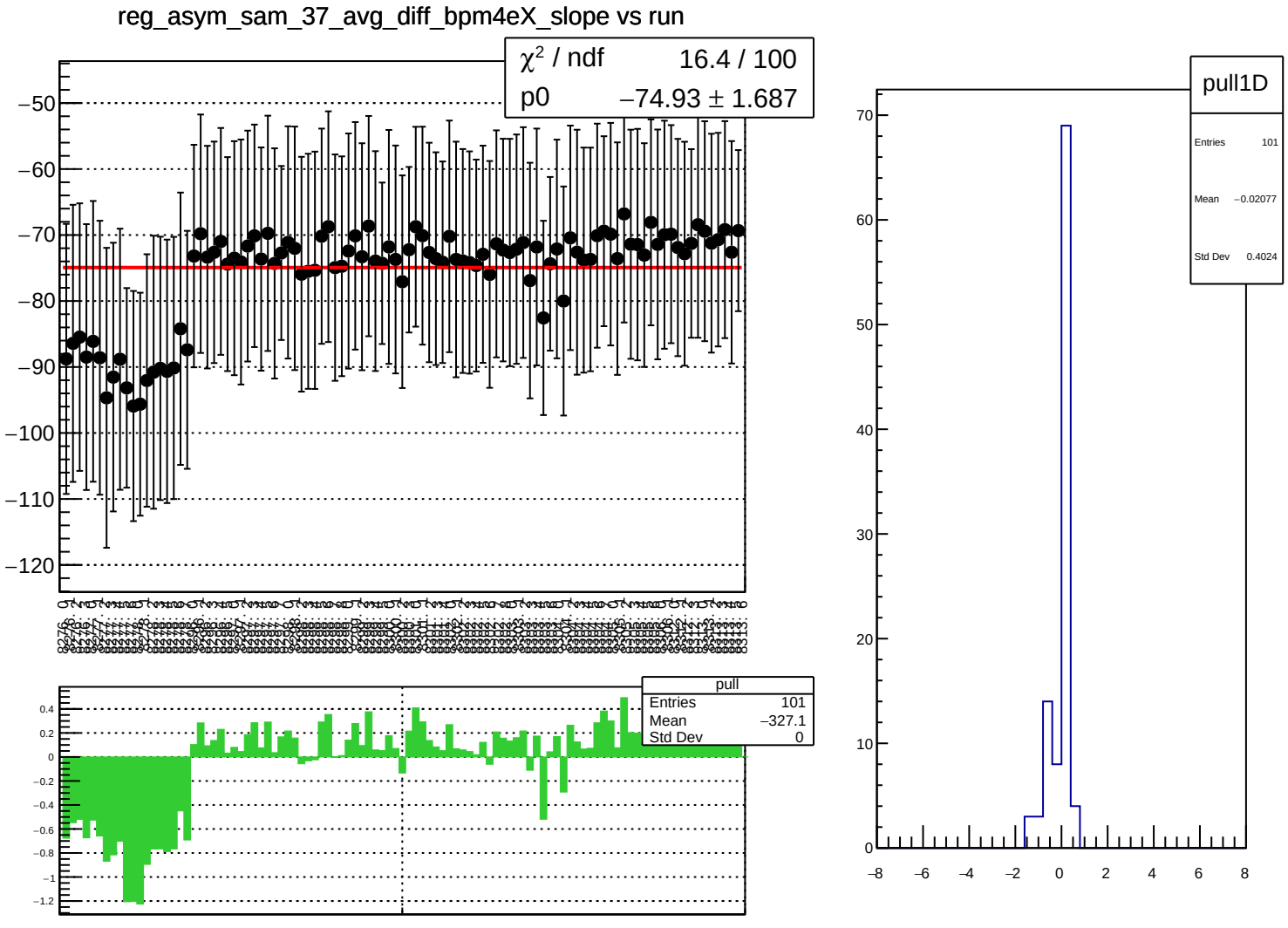

pull1D
Entries 101
Mean −0.006185
Std Dev 0.2389

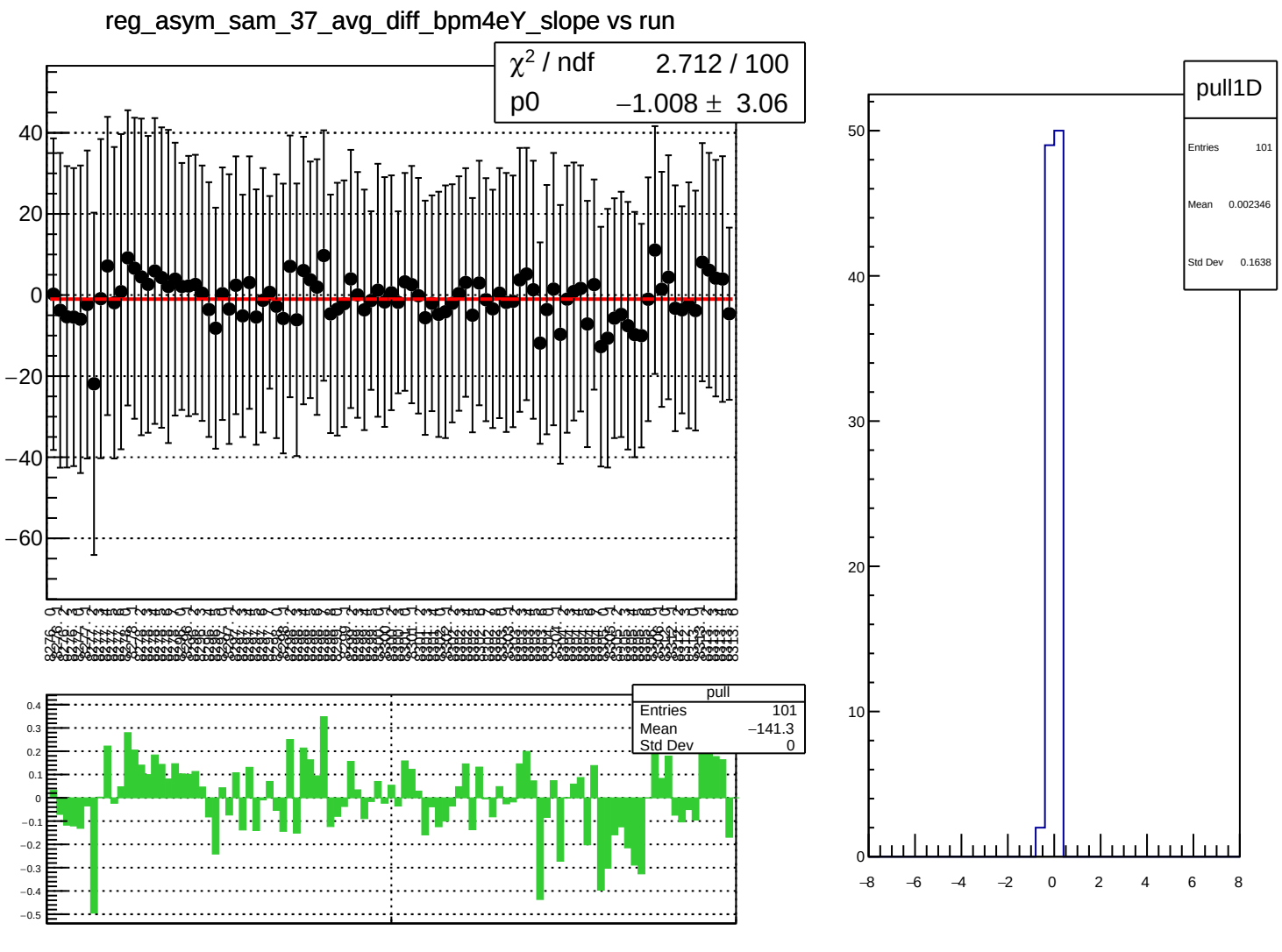

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 4.211 / 100
p0 0.8212 ± 0.06015
pull
Entries 101
Mean 128.7
Std Dev 0

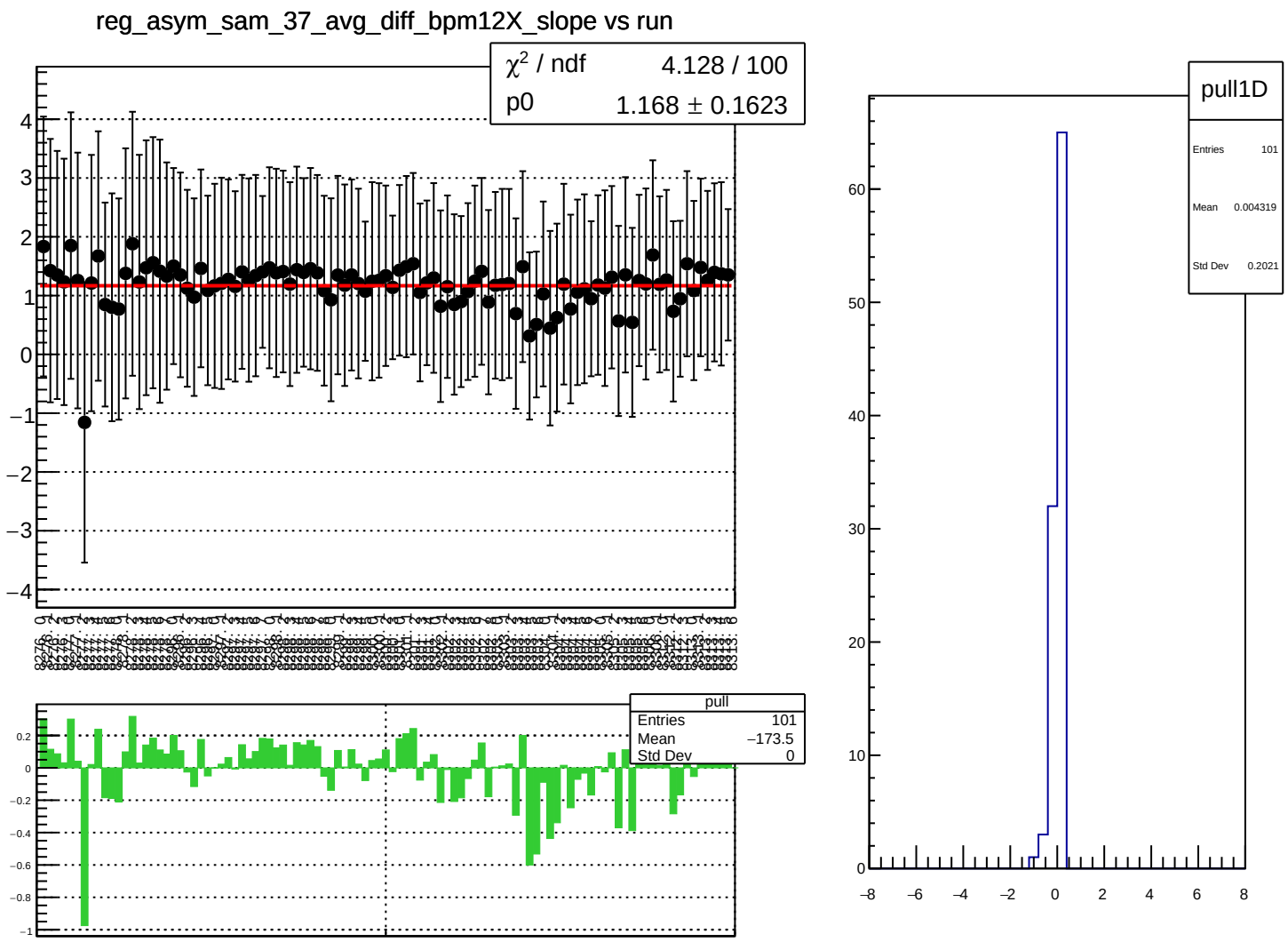

pull1D
Entries 101
Mean −0.00775
Std Dev 0.204

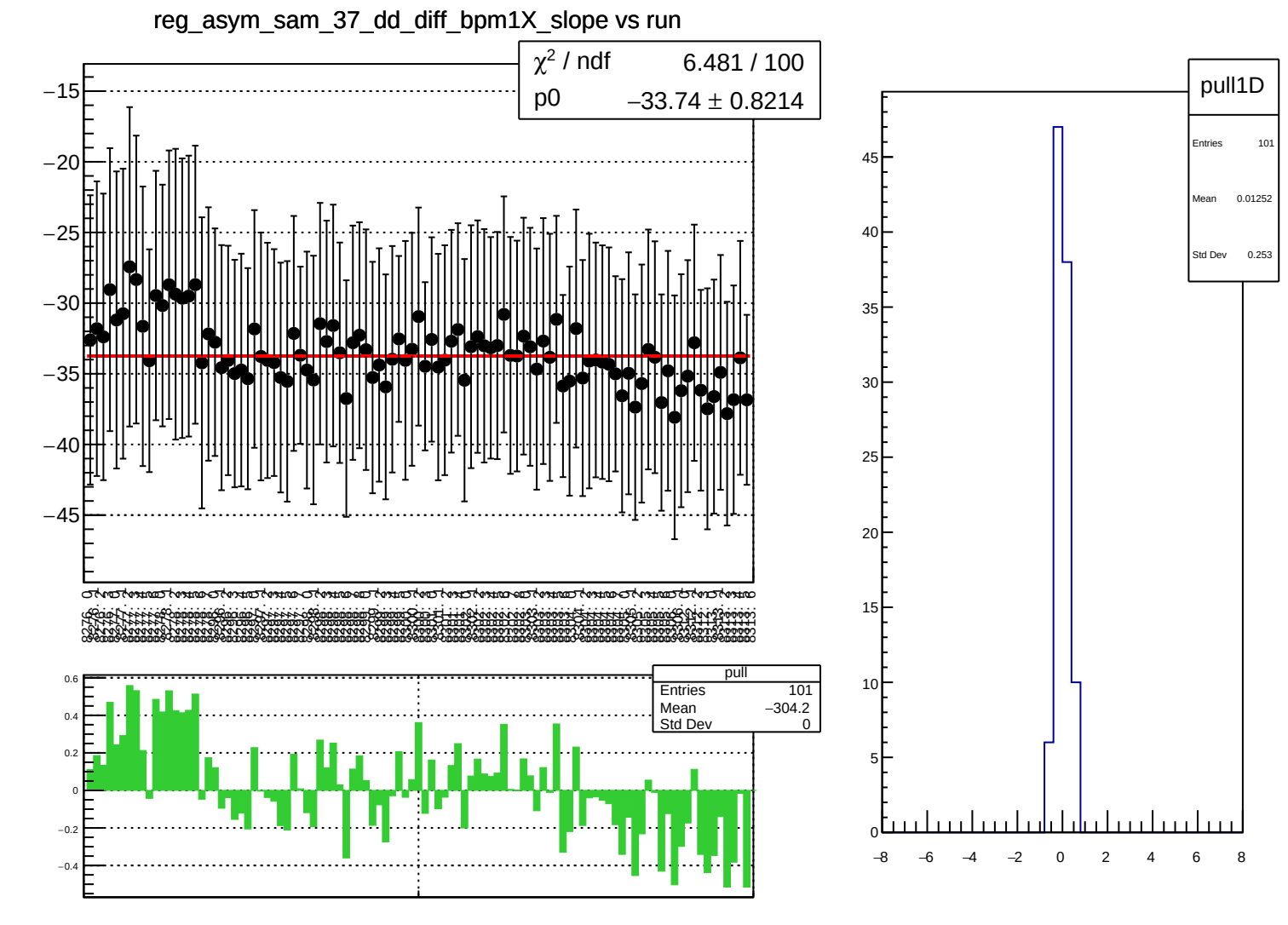

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 5.176 / 100
p0 −8.449 ± 1.512
pull
Entries 101
Mean −451.5
Std Dev 0
pull1D
Entries 101
Mean 0.008129
Std Dev 0.2262

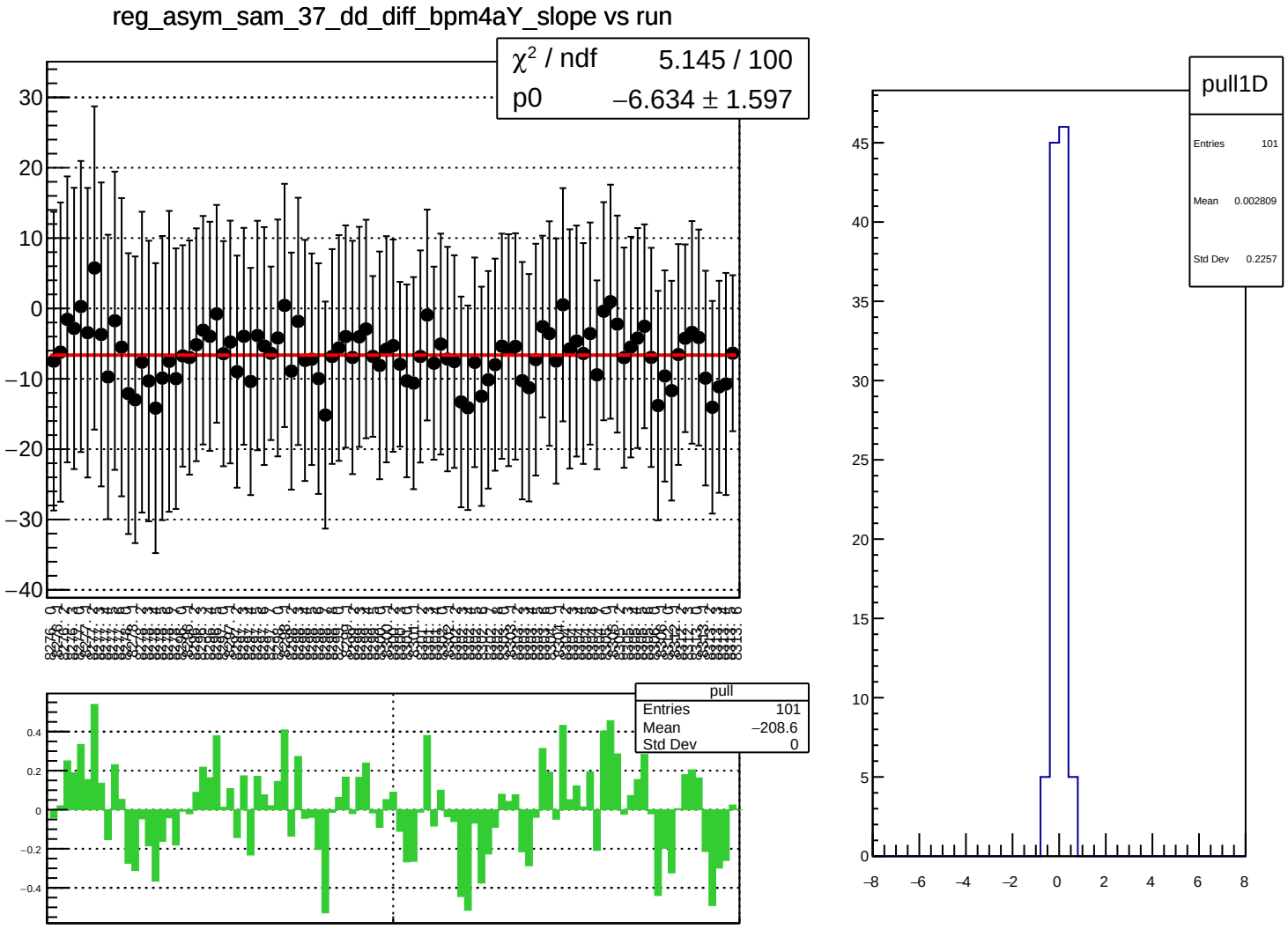

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.625 / 100
p0 7.059 ± 2.946
pull
Entries 101
Mean −153.3
Std Dev 0
pull1D
Entries 101
Mean −0.002019
Std Dev 0.1612

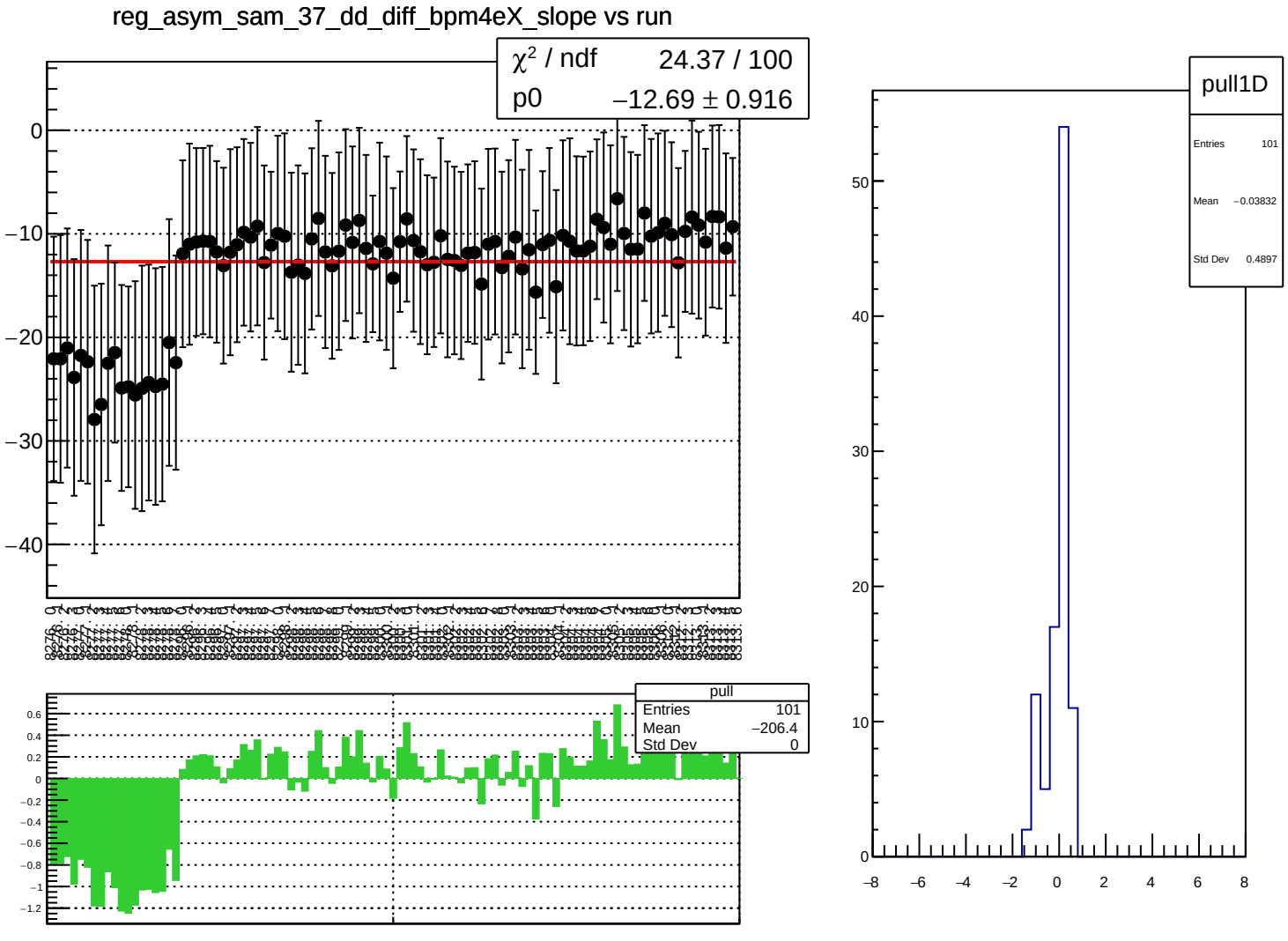

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 16.4 / 100
p0 −74.93 ± 1.687
pull
Entries 101
Mean −327.1
Std Dev 0
pull1D
Entries 101
Mean −0.02077
Std Dev 0.4024

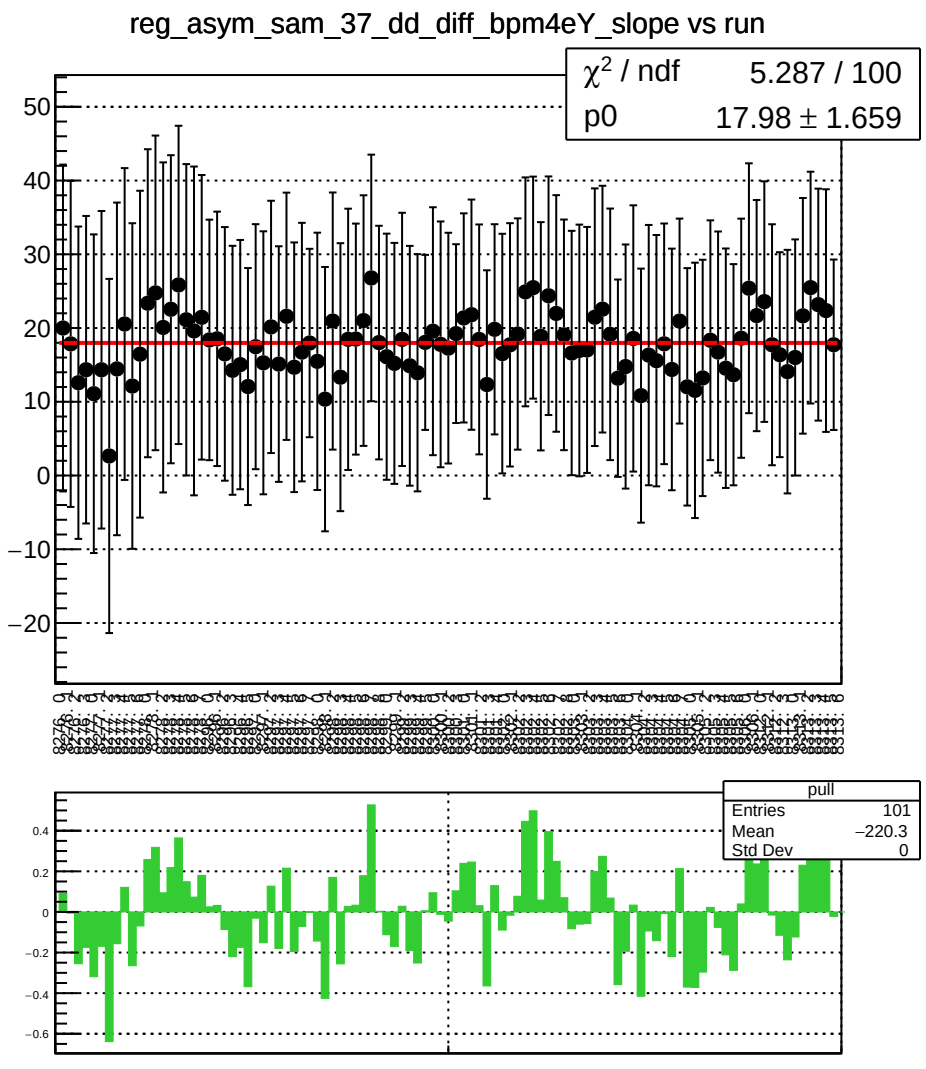

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.712 / 100
p0 −1.008 ± 3.06
pull
Entries 101
Mean −141.3
Std Dev 0
pull1D
Entries 101
Mean 0.002346
Std Dev 0.1638

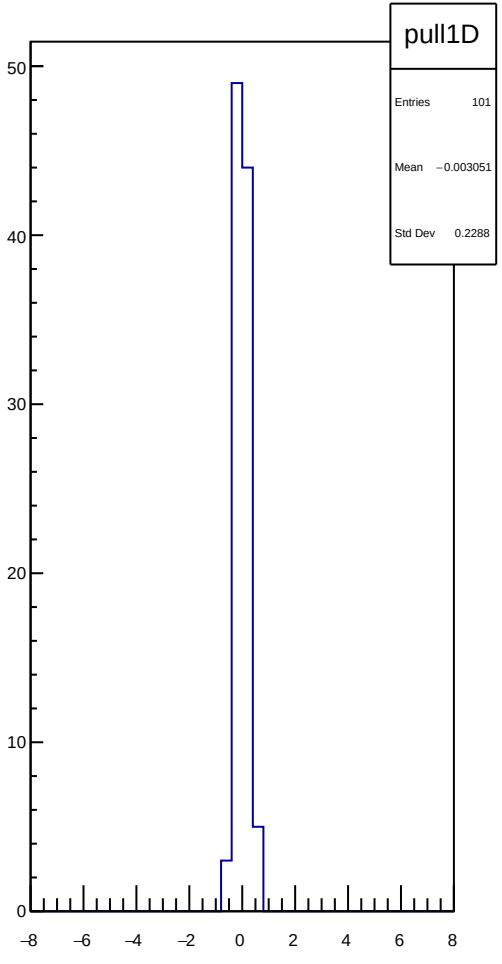

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 4.128 / 100
p0 1.168 ± 0.1623
pull
Entries 101
Mean −173.5
Std Dev 0
pull1D
Entries 101
Mean 0.004319
Std Dev 0.2021

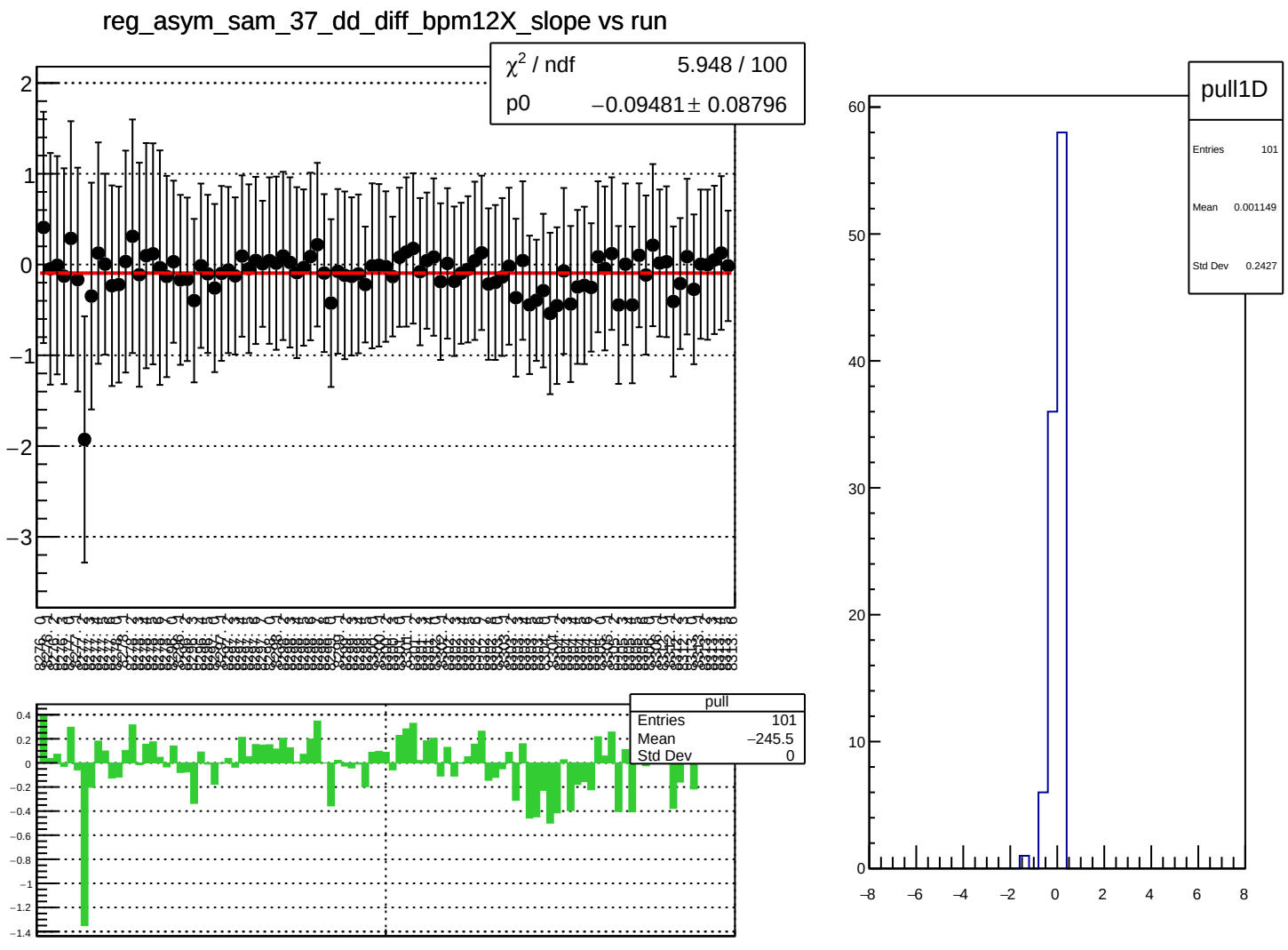

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 6.481 / 100
p0 −33.74 ± 0.8214
pull
Entries 101
Mean −304.2
Std Dev 0
pull1D
Entries 101
Mean 0.01252
Std Dev 0.253

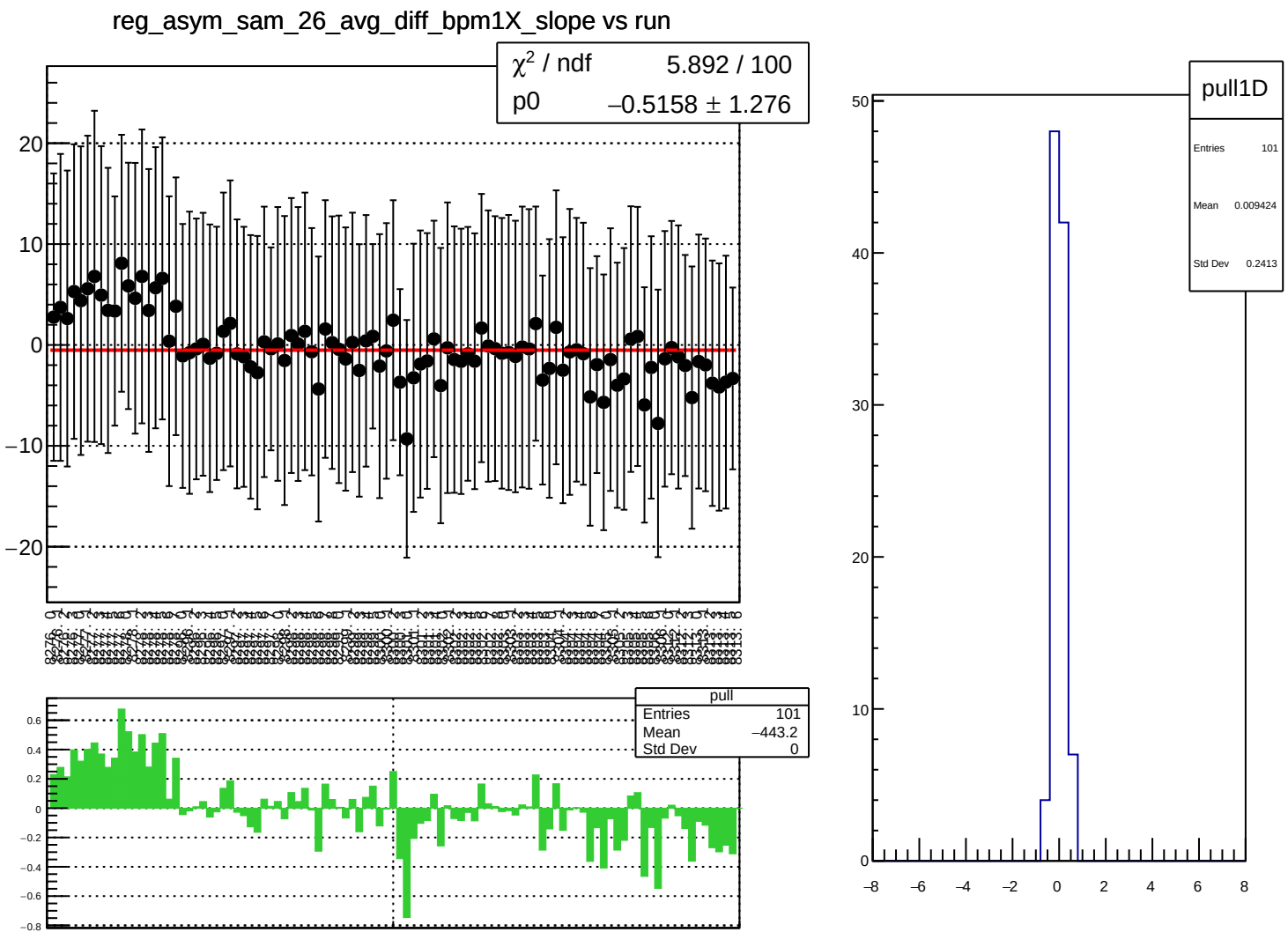

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.145 / 100
p0 −6.634 ± 1.597
pull
Entries 101
Mean −208.6
Std Dev 0
pull1D
Entries 101
Mean 0.002809
Std Dev 0.2257

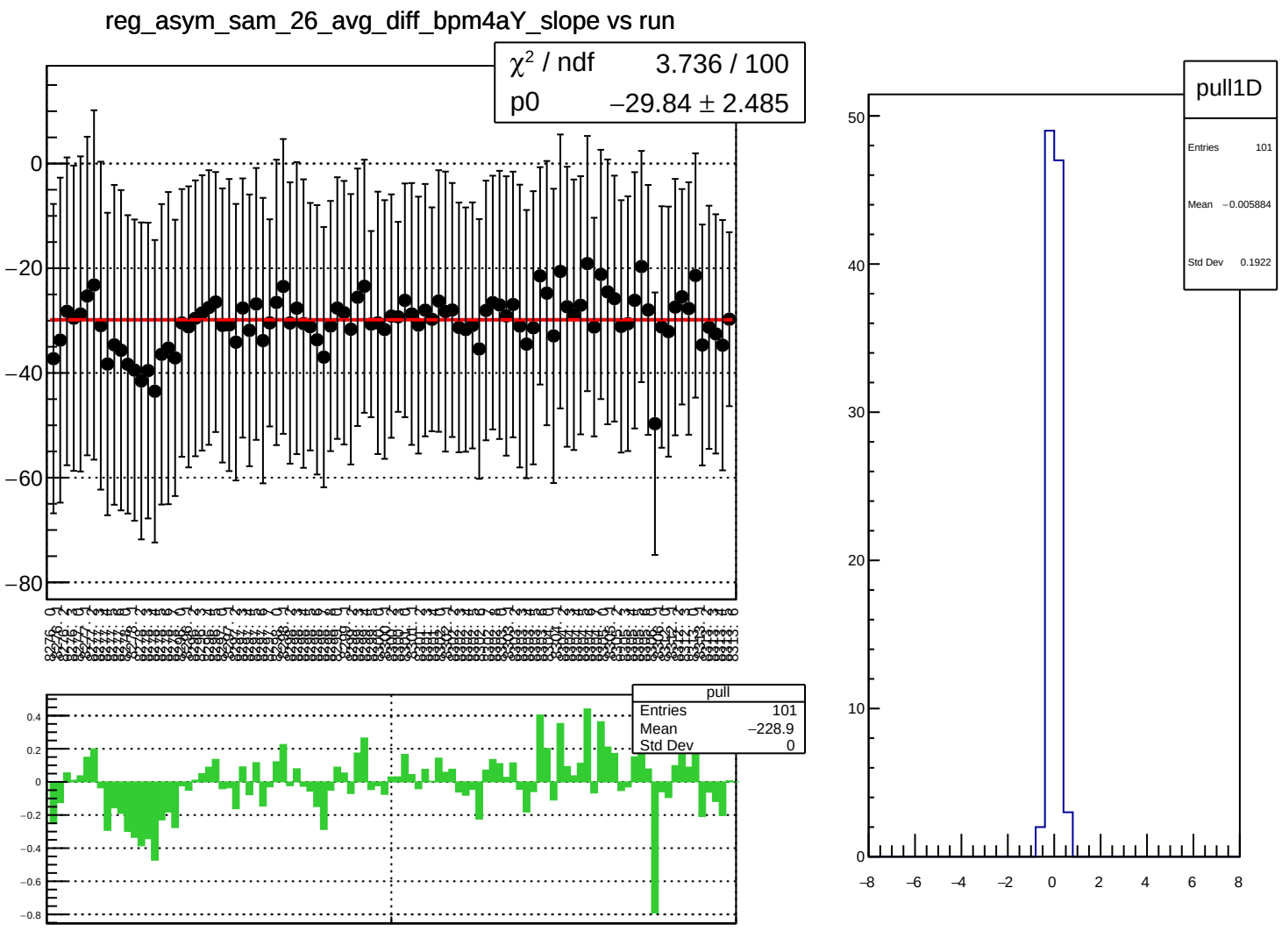

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 24.37 / 100
p0 −12.69 ± 0.916
0
−10
−20
−30
−40
pull
Entries 101
Mean −206.4
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 101
Mean −0.03832
Std Dev 0.4897
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

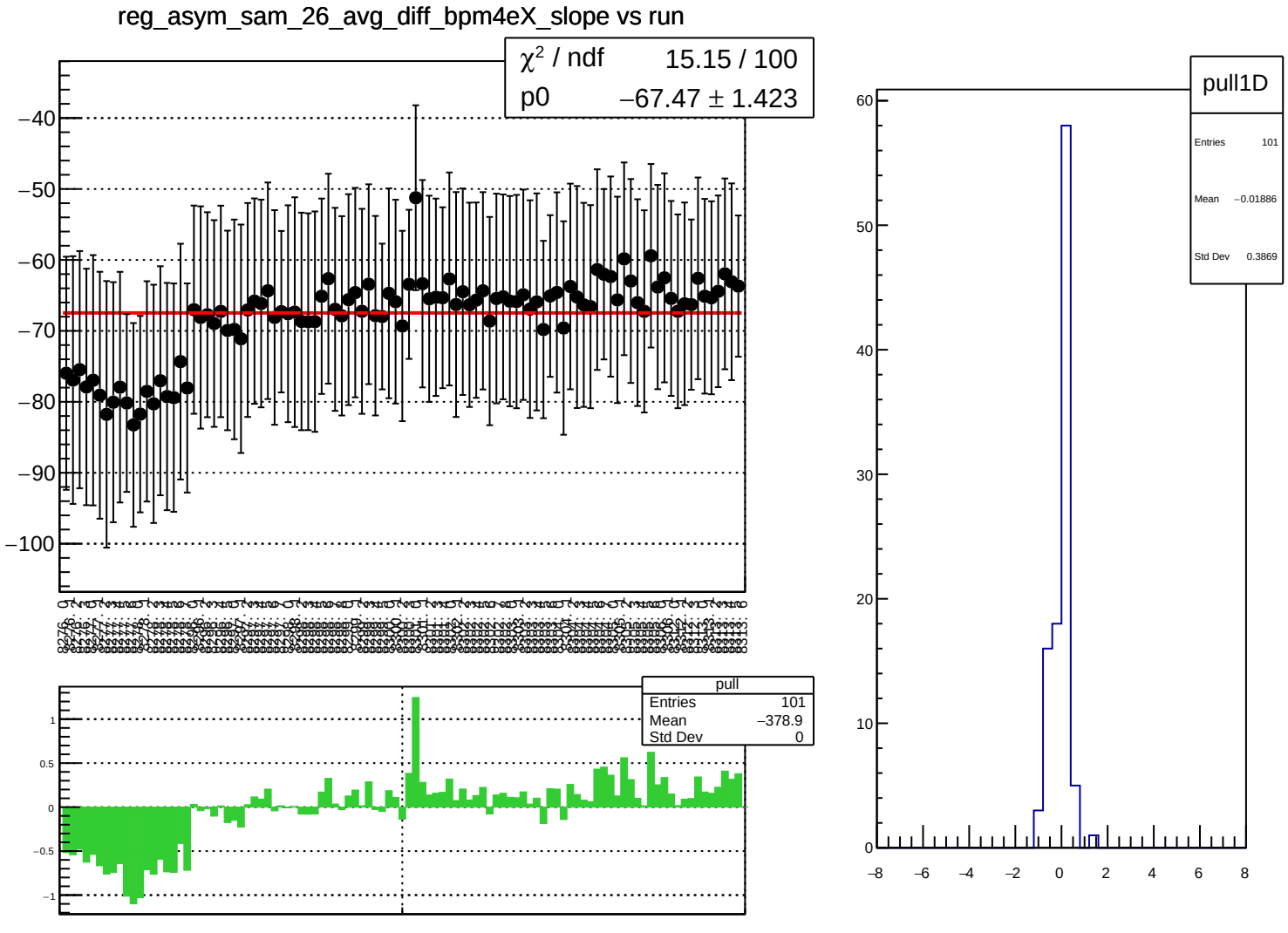

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.287 / 100
p0 17.98 ± 1.659
pull
Entries 101
Mean −220.3
Std Dev 0

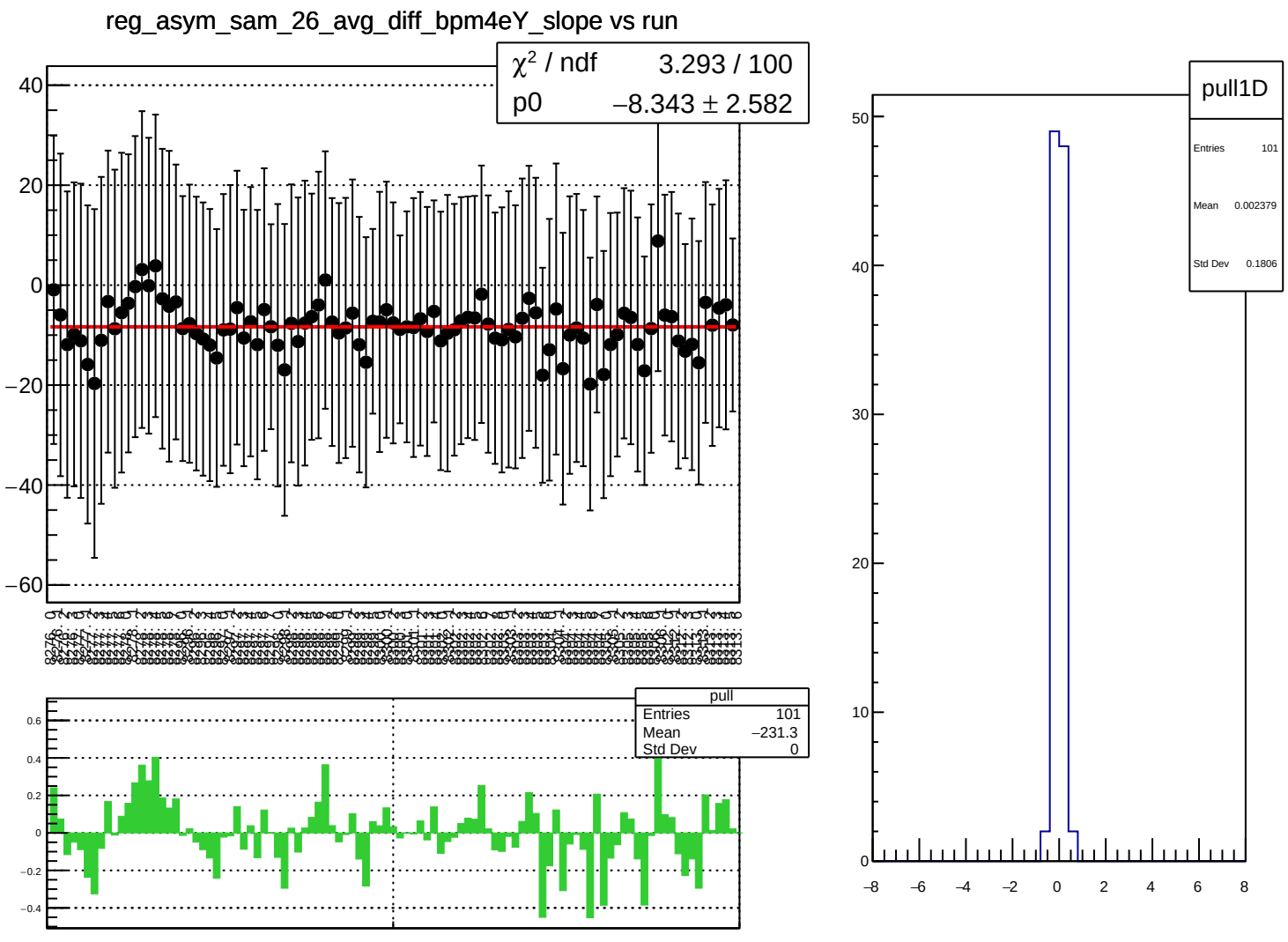

pull1D
Entries 101
Mean −0.003051
Std Dev 0.2288

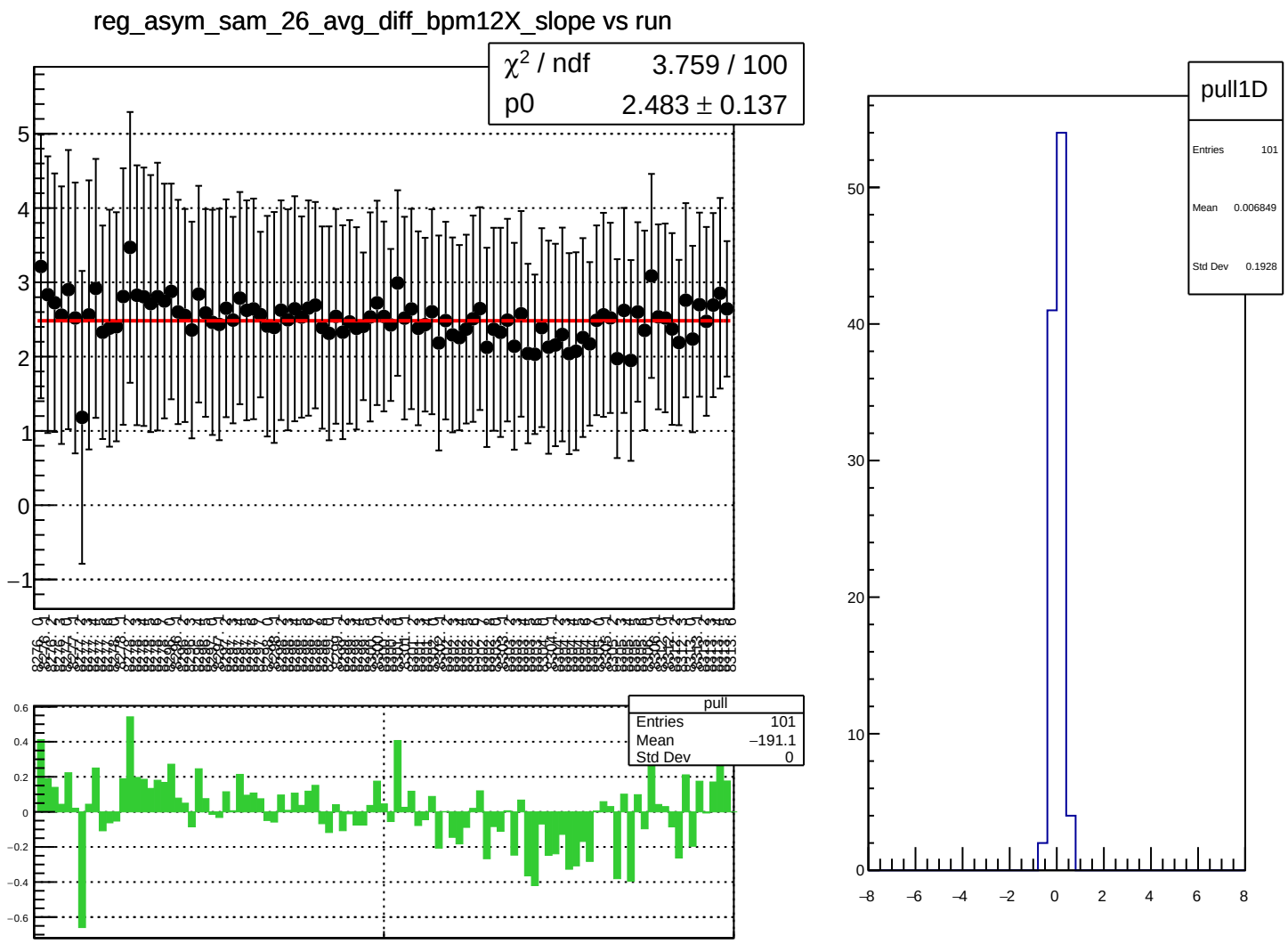

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 5.948 / 100
p0 −0.09481 ± 0.08796
pull
Entries 101
Mean −245.5
Std Dev 0
pull1D
Entries 101
Mean 0.001149
Std Dev 0.2427

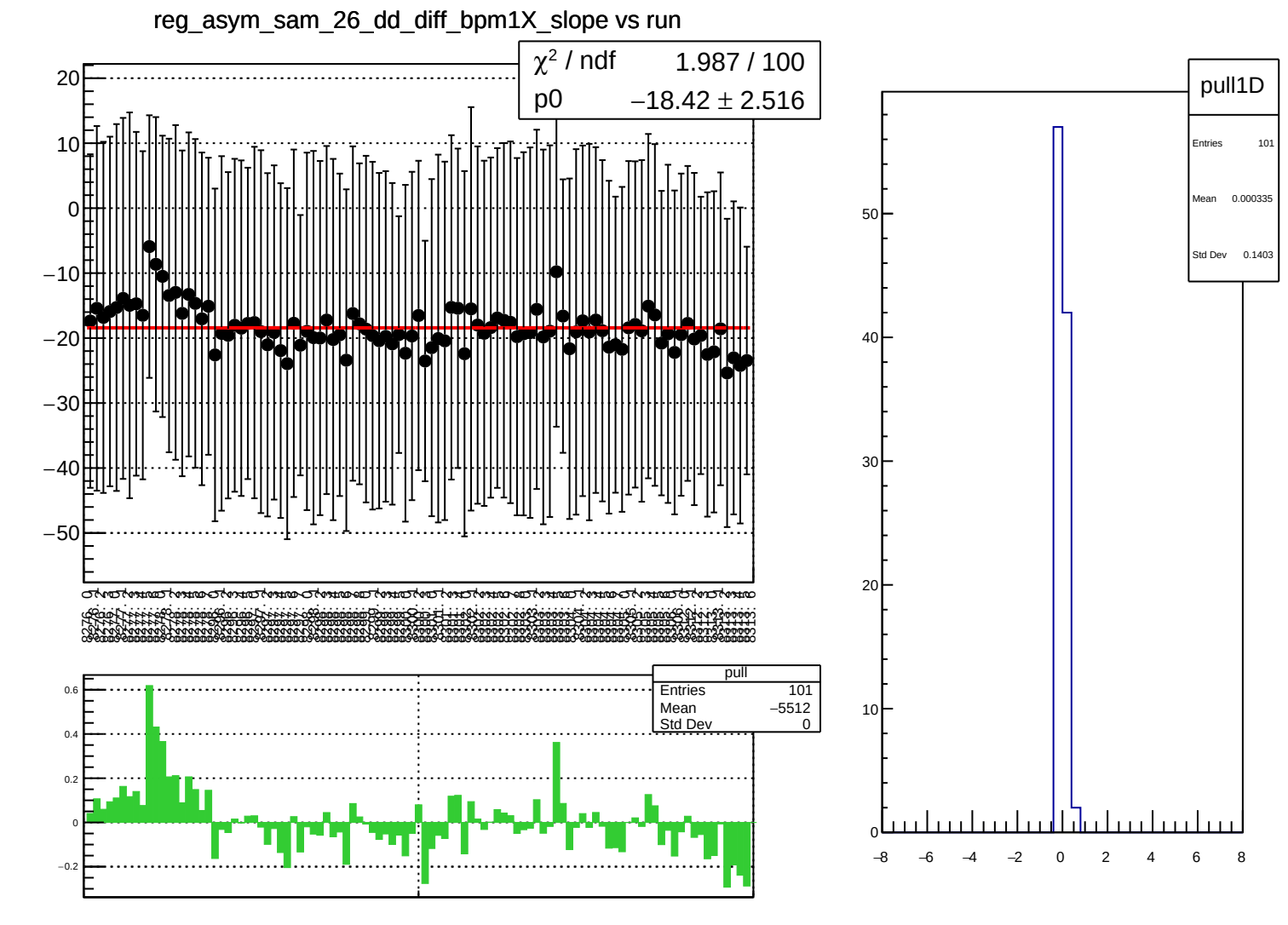

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 5.892 / 100
p0 −0.5158 ± 1.276
20
10
0
−10
−20
pull
Entries 101
Mean −443.2
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 101
Mean 0.009424
Std Dev 0.2413
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

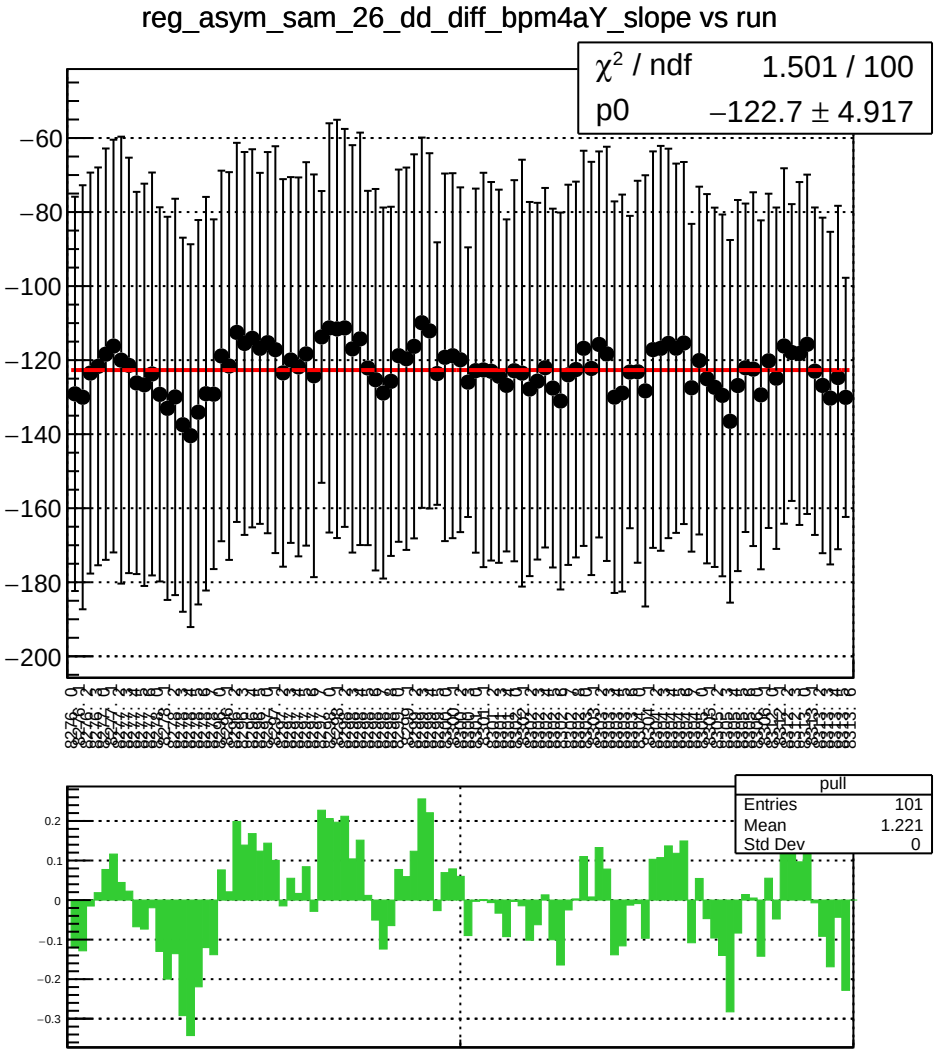

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.736 / 100
p0 −29.84 ± 2.485
0
−20
−40
−60
−80
pull
Entries 101
Mean −228.9
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 101
Mean −0.005884
Std Dev 0.1922
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

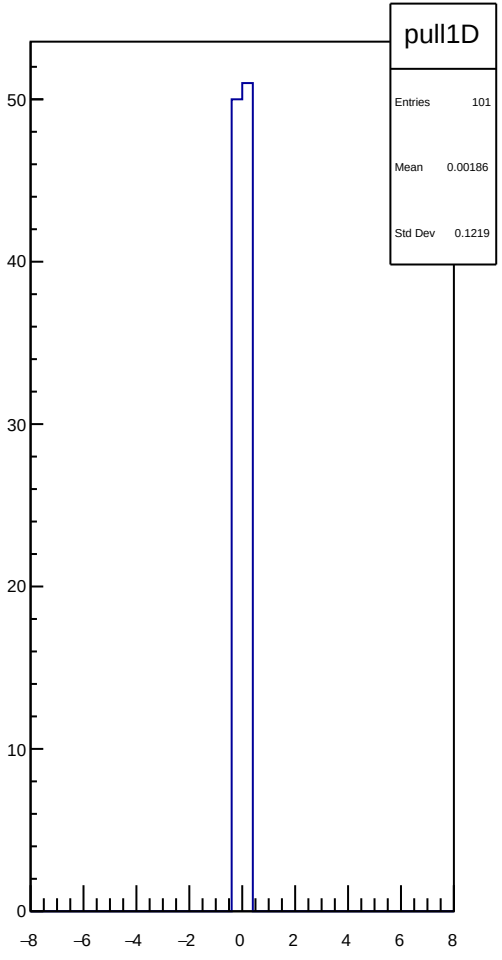

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 15.15 / 100
p0 −67.47 ± 1.423
pull
Entries 101
Mean −378.9
Std Dev 0
pull1D
Entries 101
Mean −0.01886
Std Dev 0.3869

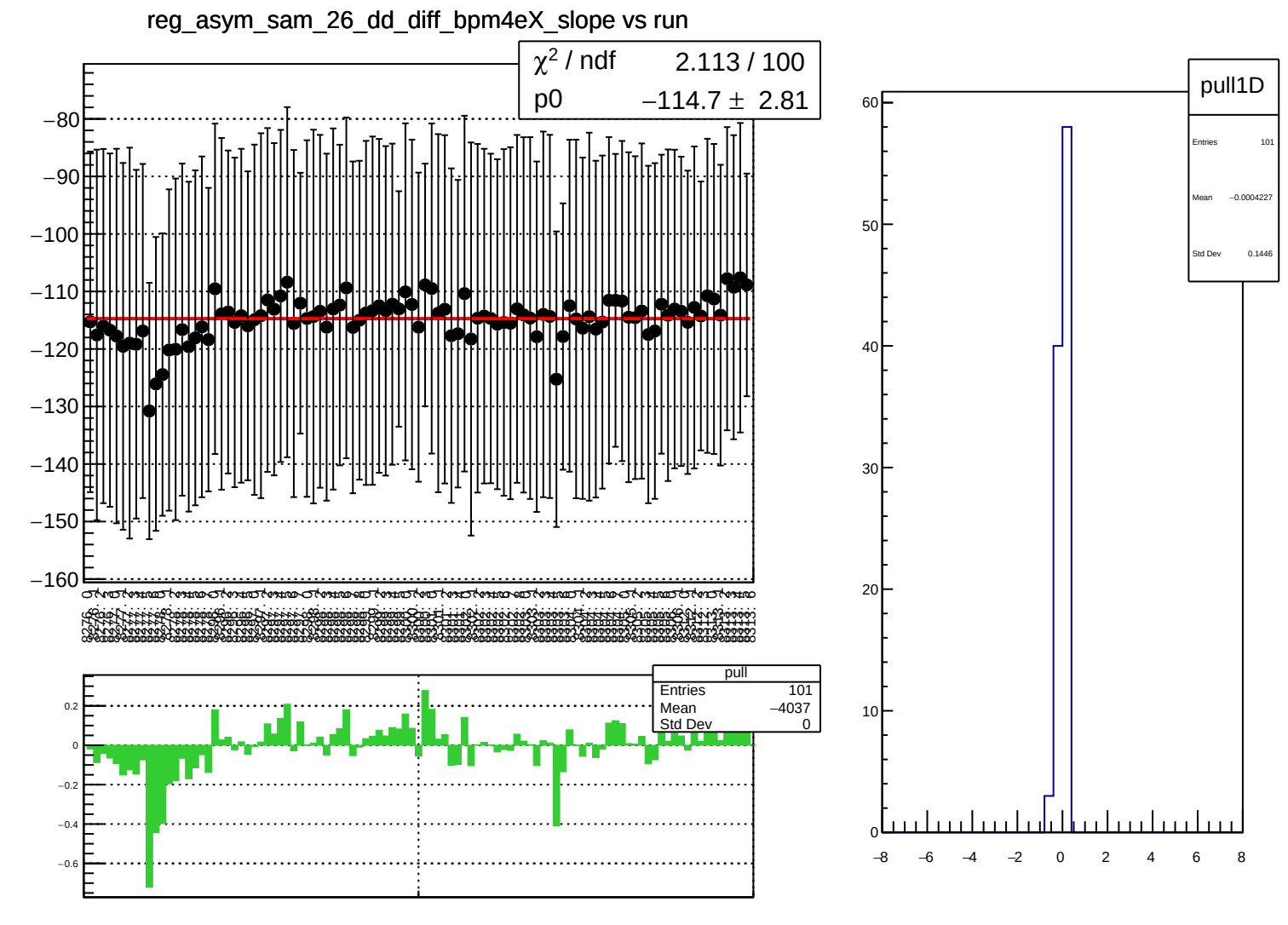

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.293 / 100
p0 −8.343 ± 2.582
pull
Entries 101
Mean −231.3
Std Dev 0
pull1D
Entries 101
Mean 0.002379
Std Dev 0.1806

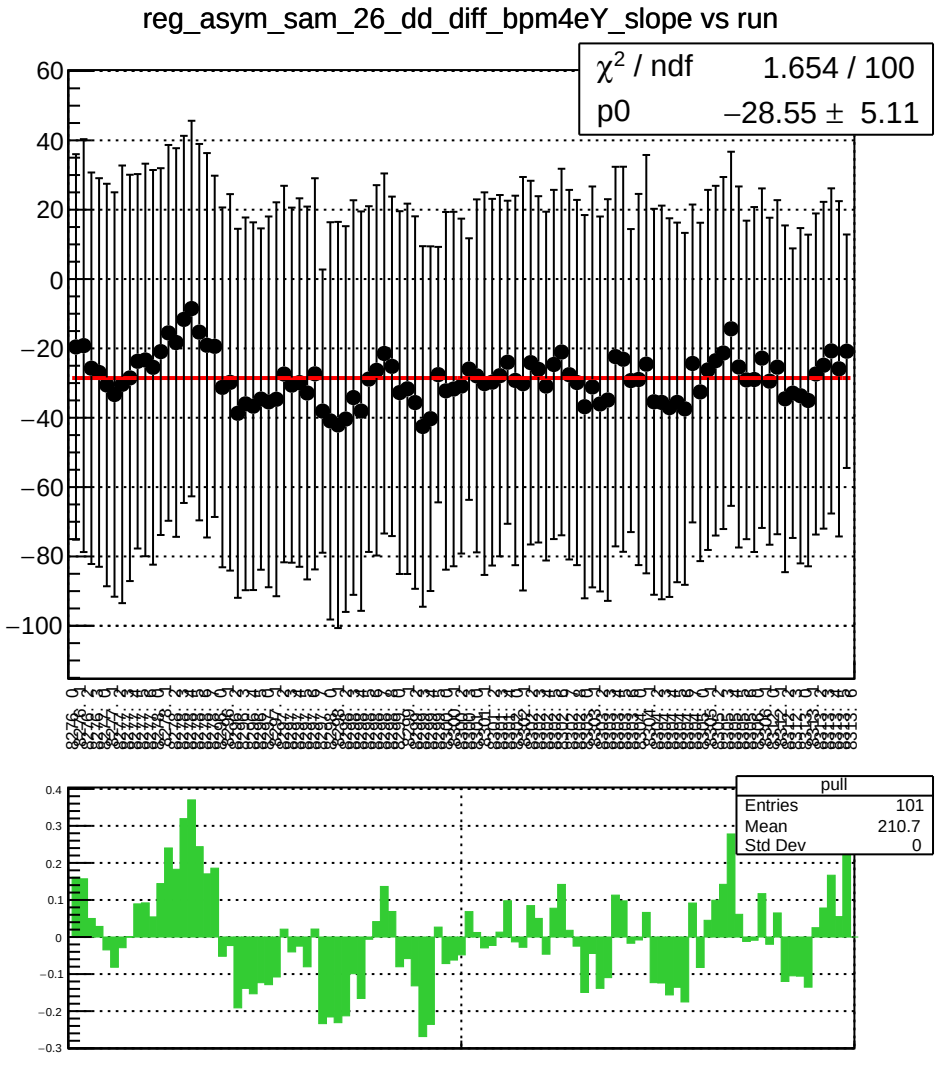

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 3.759 / 100
p0 2.483 ± 0.137
pull
Entries 101
Mean −191.1
Std Dev 0
pull1D
Entries 101
Mean 0.006849
Std Dev 0.1928

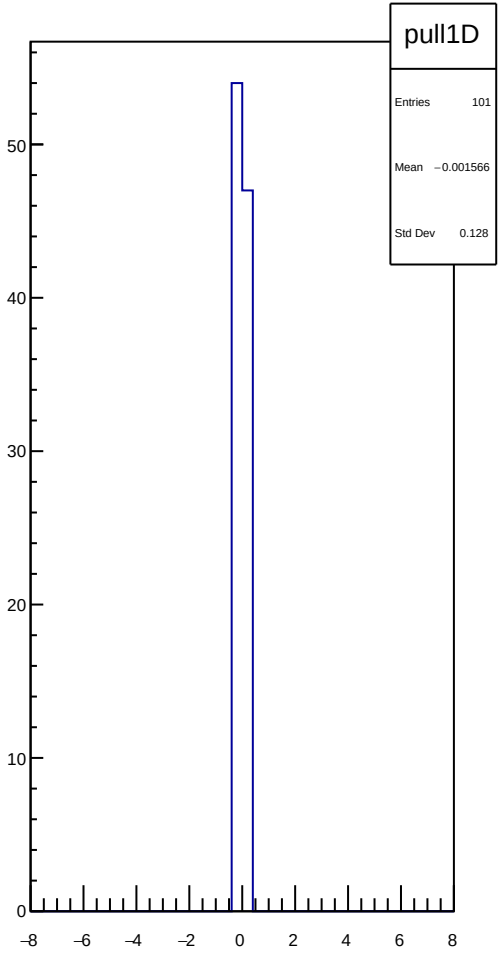

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 1.987 / 100
p0 −18.42 ± 2.516
pull
Entries 101
Mean −5512
Std Dev 0
pull1D
Entries 101
Mean 0.000335
Std Dev 0.1403

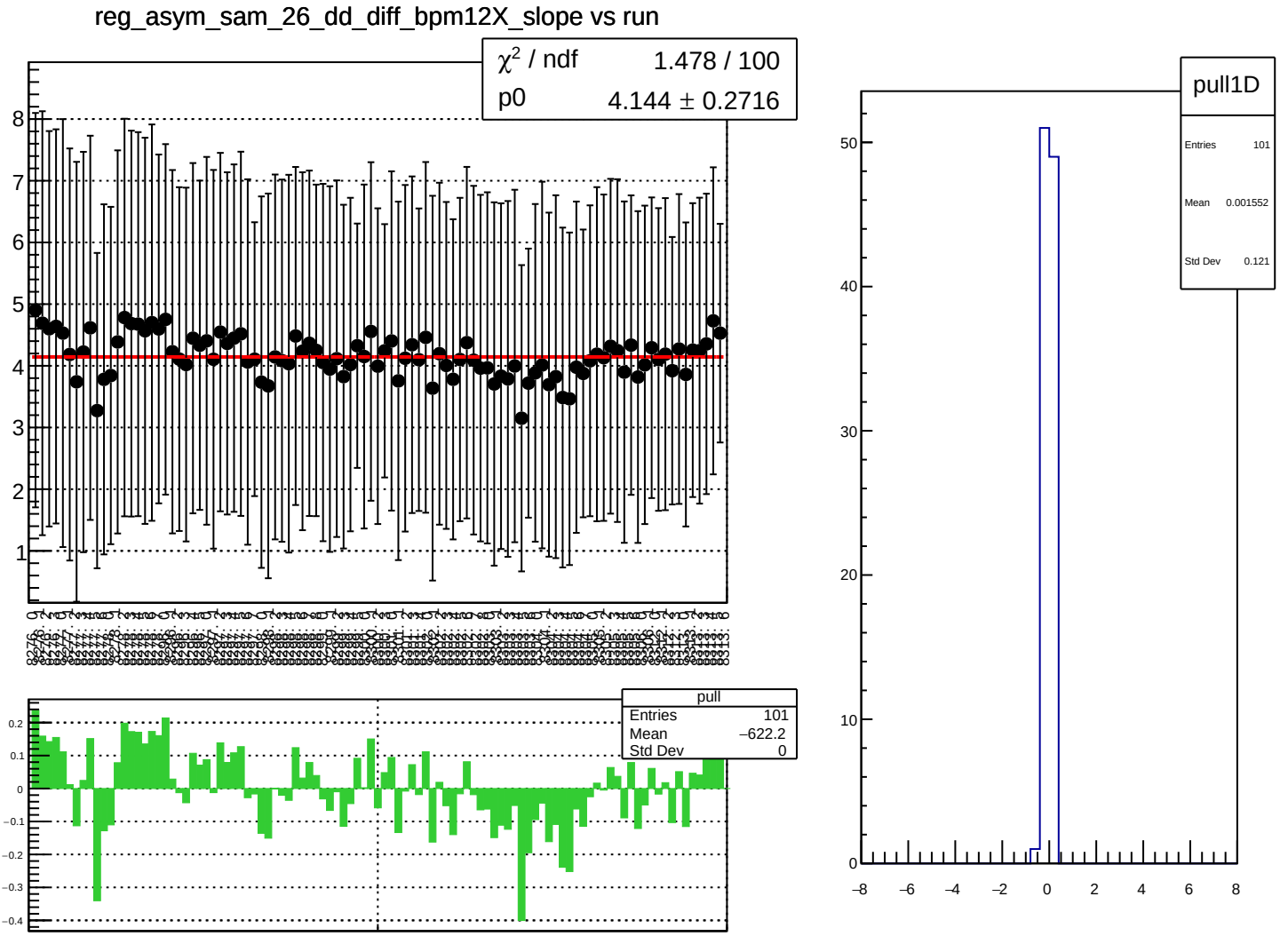

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.501 / 100
p0 −122.7 ± 4.917
pull
Entries 101
Mean 1.221
Std Dev 0

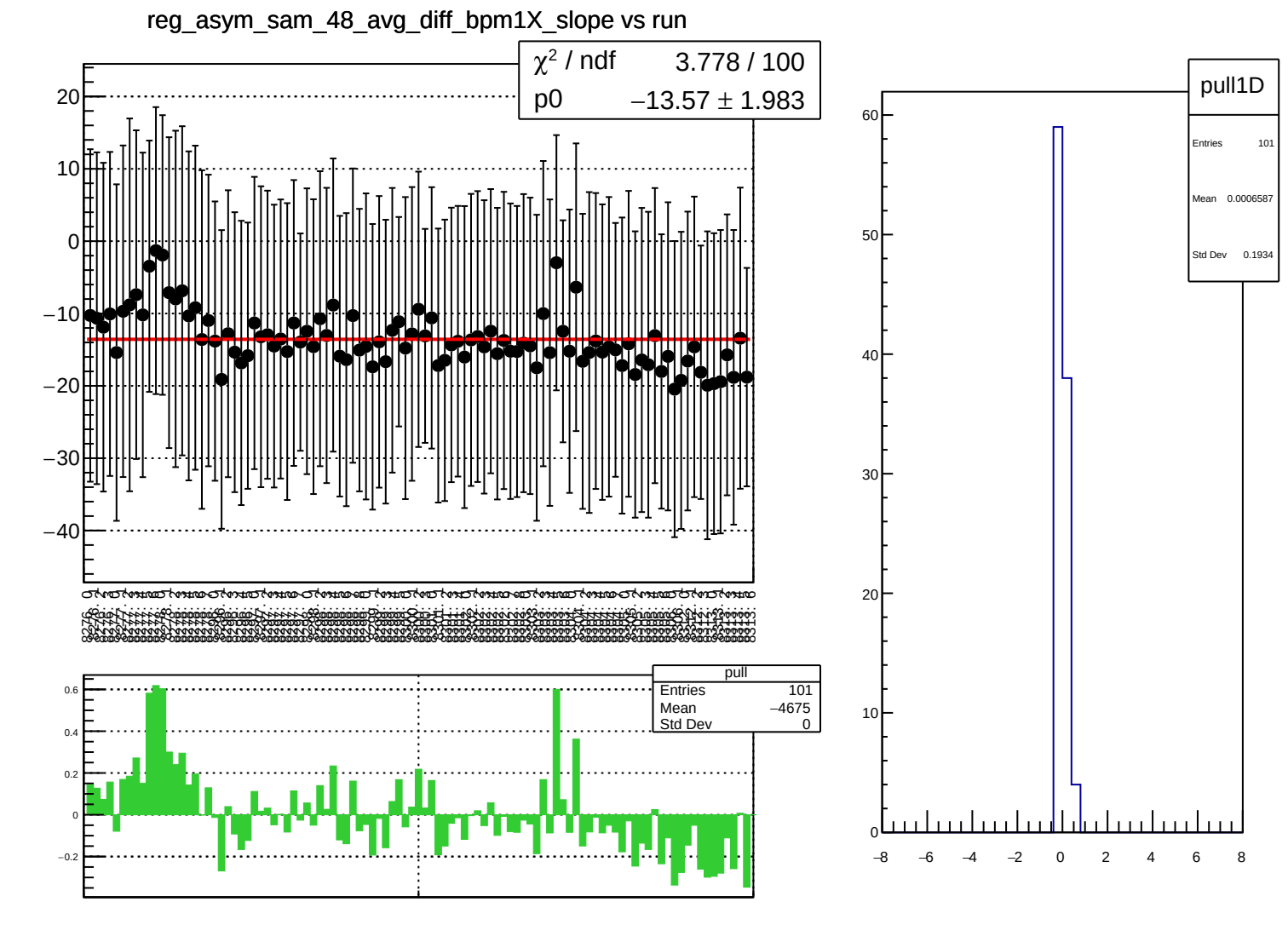

pull1D
Entries 101
Mean 0.00186
Std Dev 0.1219

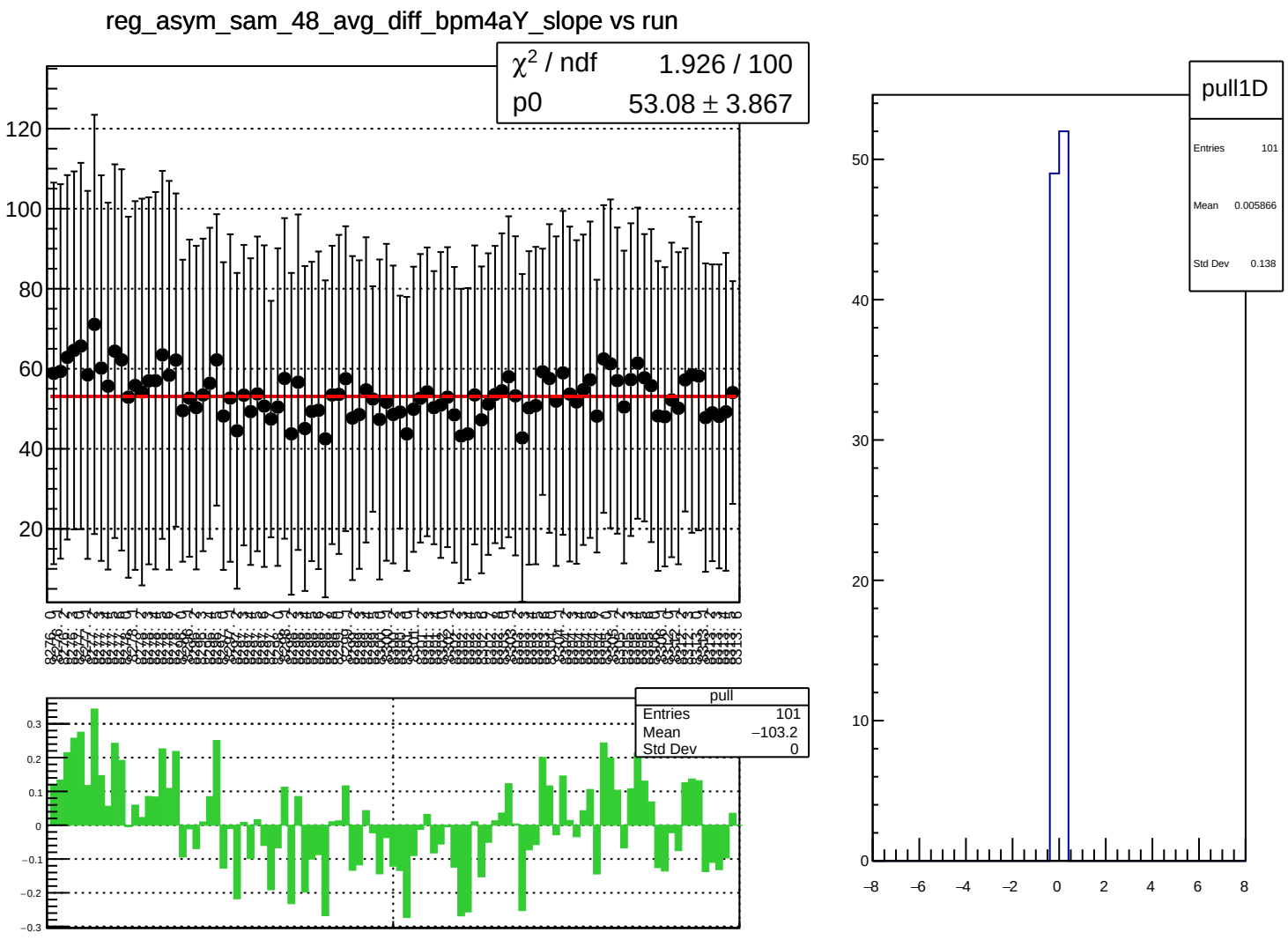

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.113 / 100
p0 −114.7 ± 2.81
pull
Entries 101
Mean −4037
Std Dev 0
pull1D
Entries 101
Mean −0.0004227
Std Dev 0.1446

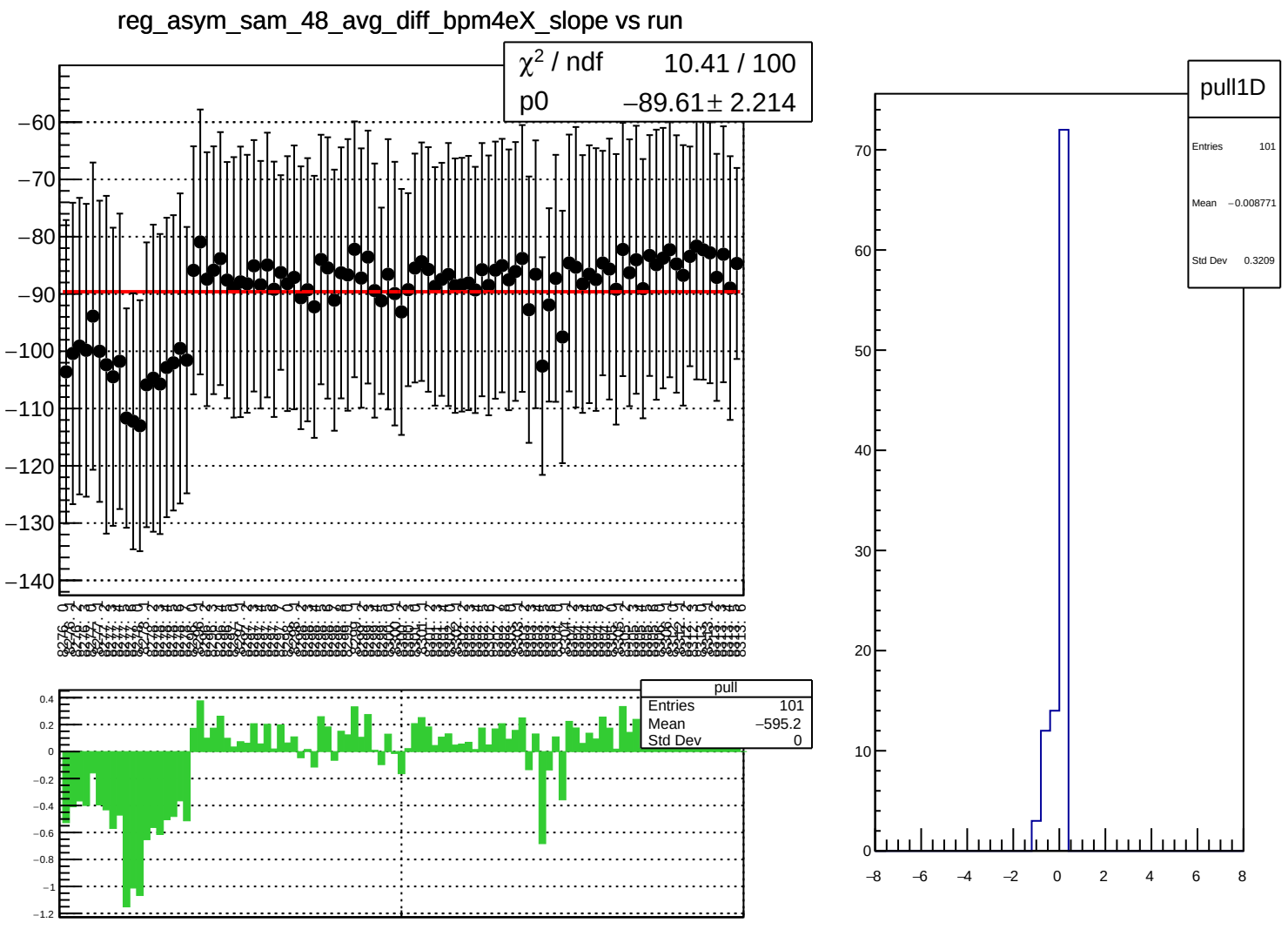

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.654 / 100
p0 −28.55 ± 5.11
pull
Entries 101
Mean 210.7
Std Dev 0

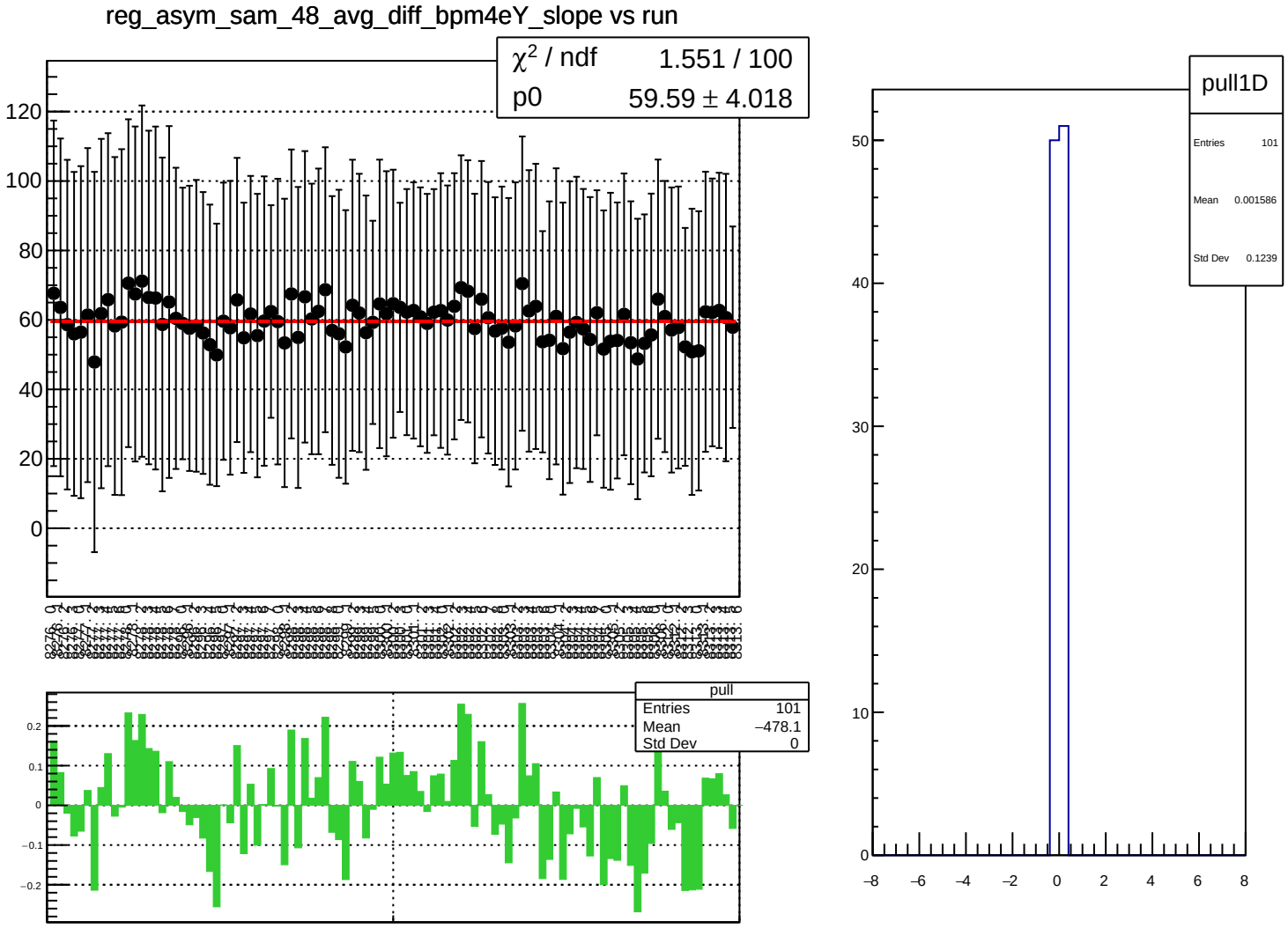

pull1D
Entries 101
Mean −0.001566
Std Dev 0.128

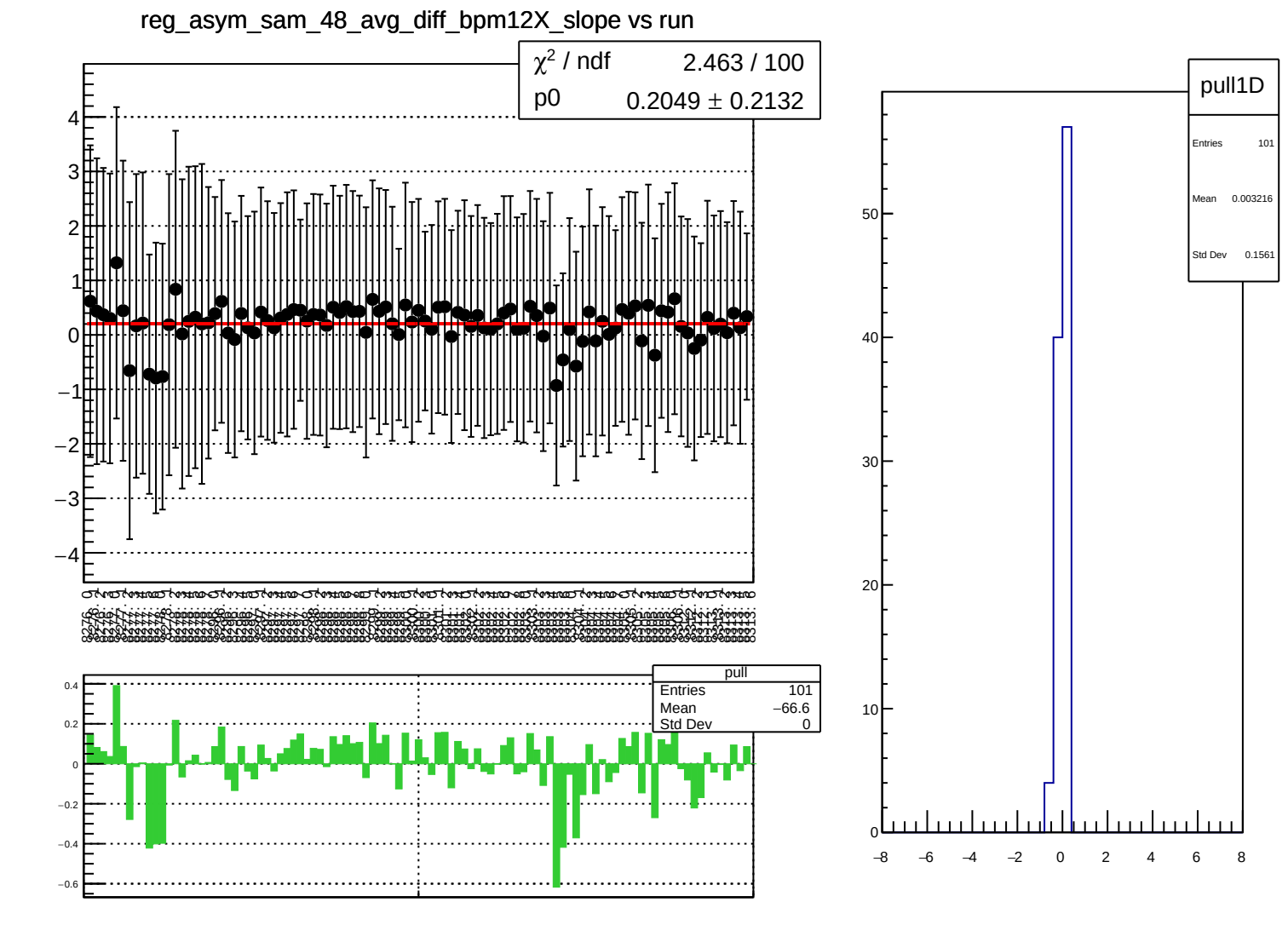

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 1.478 / 100
p0 4.144 ± 0.2716
pull
Entries 101
Mean −622.2
Std Dev 0
pull1D
Entries 101
Mean 0.001552
Std Dev 0.121

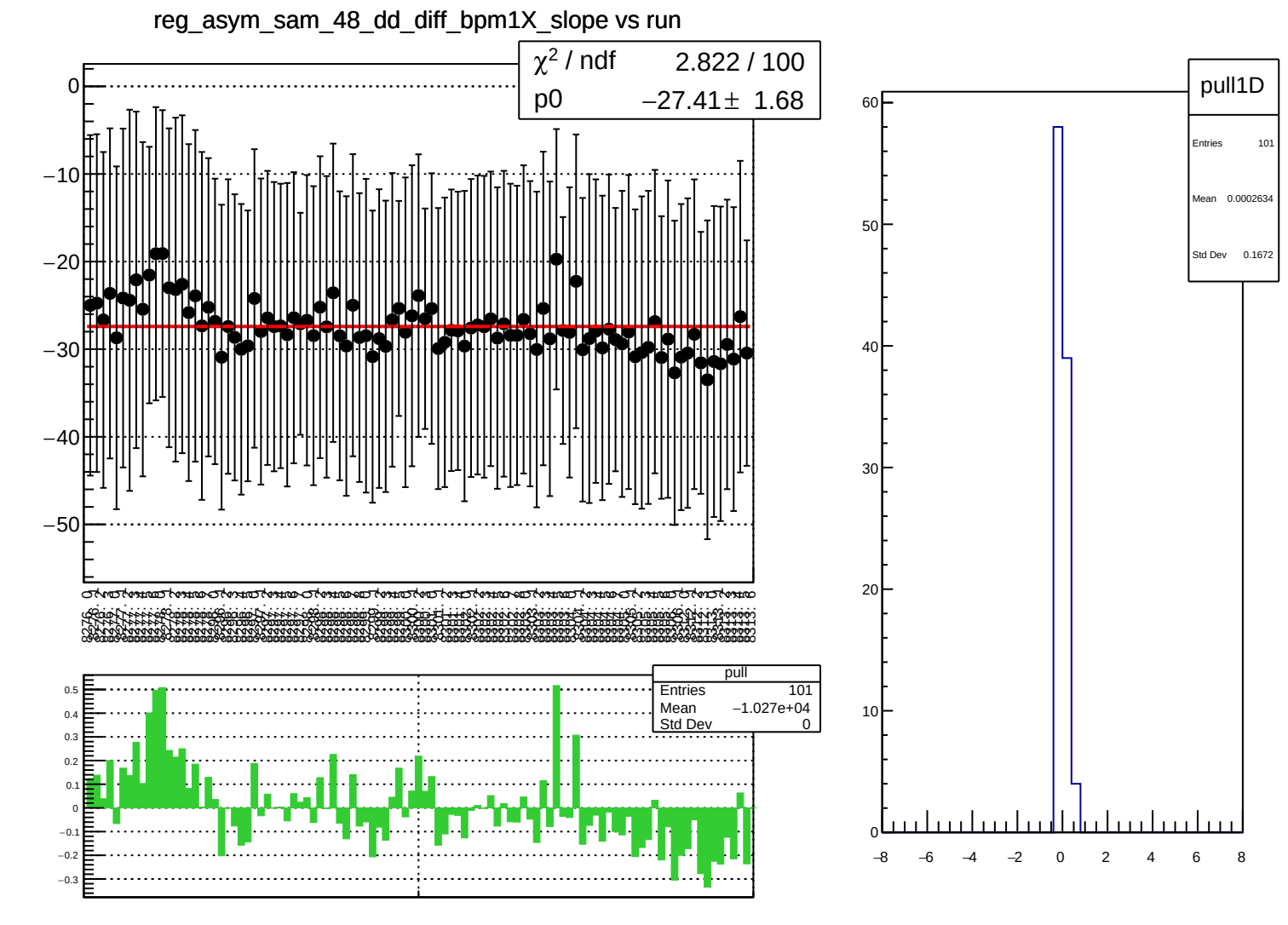

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 3.778 / 100
p0 −13.57 ± 1.983
pull
Entries 101
Mean −4675
Std Dev 0
pull1D
Entries 101
Mean 0.0006587
Std Dev 0.1934

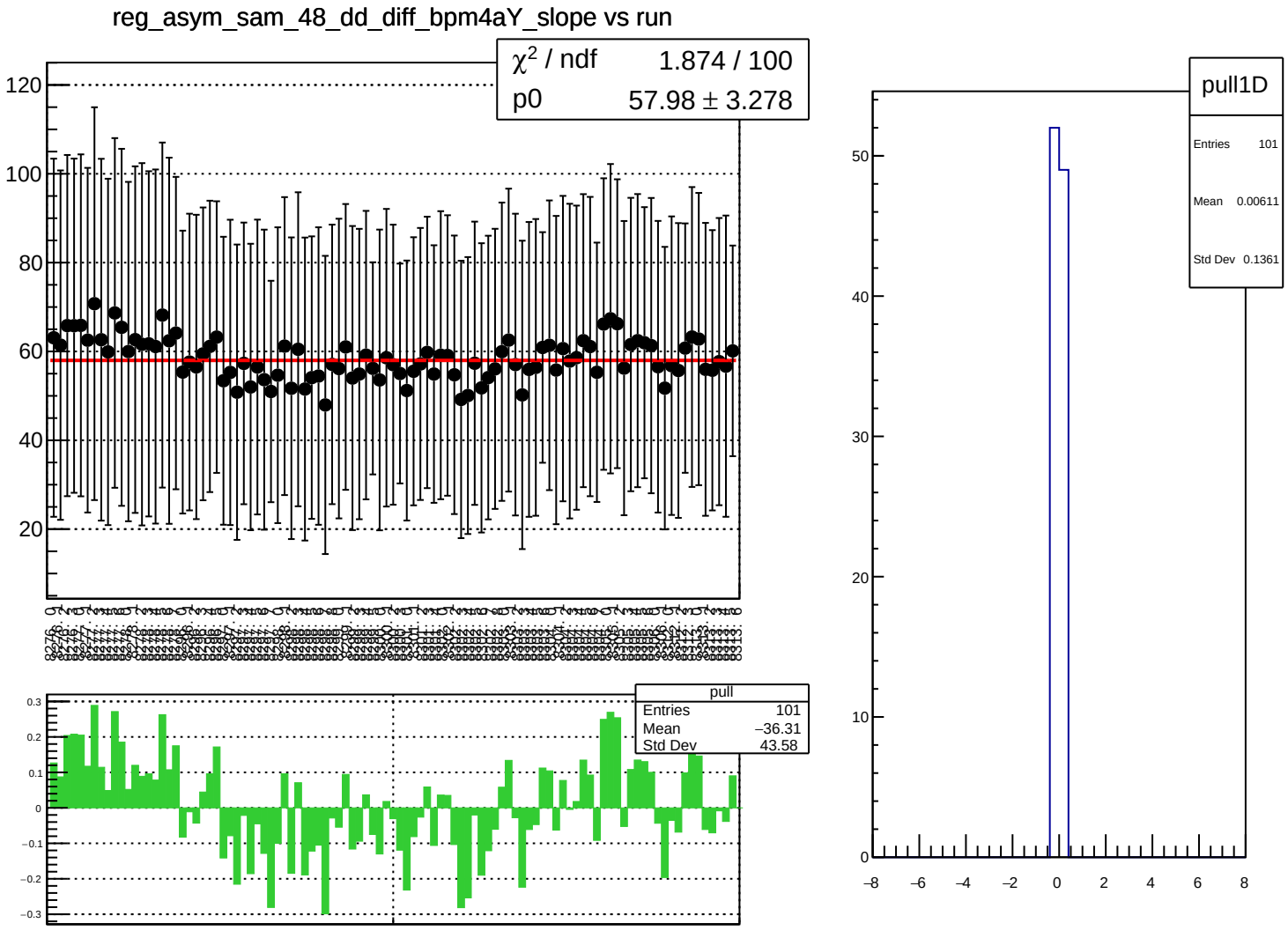

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.926 / 100
p0 53.08 ± 3.867
120
100
80
60
40
20
pull
Entries 101
Mean −103.2
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 101
Mean 0.005866
Std Dev 0.138
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

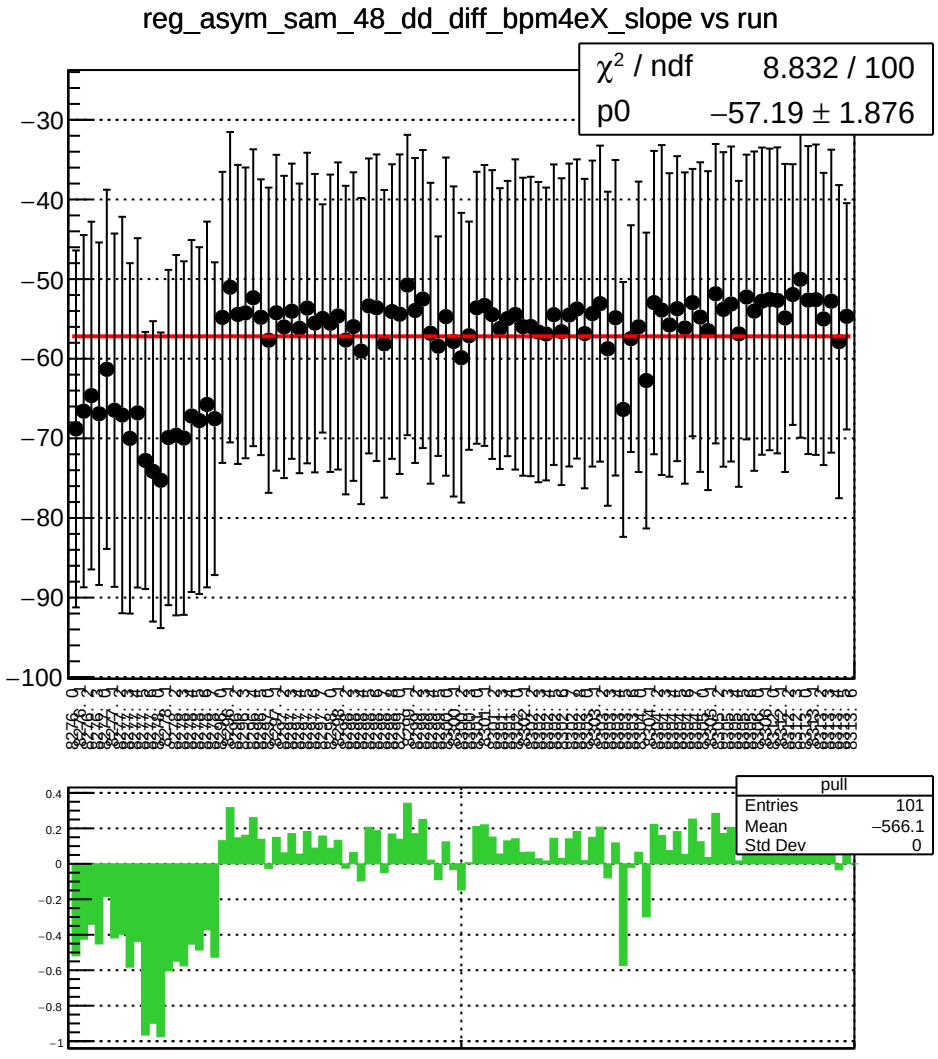

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.41 / 100
p0 −89.61 ± 2.214
pull
Entries 101
Mean −595.2
Std Dev 0
pull1D
Entries 101
Mean −0.008771
Std Dev 0.3209

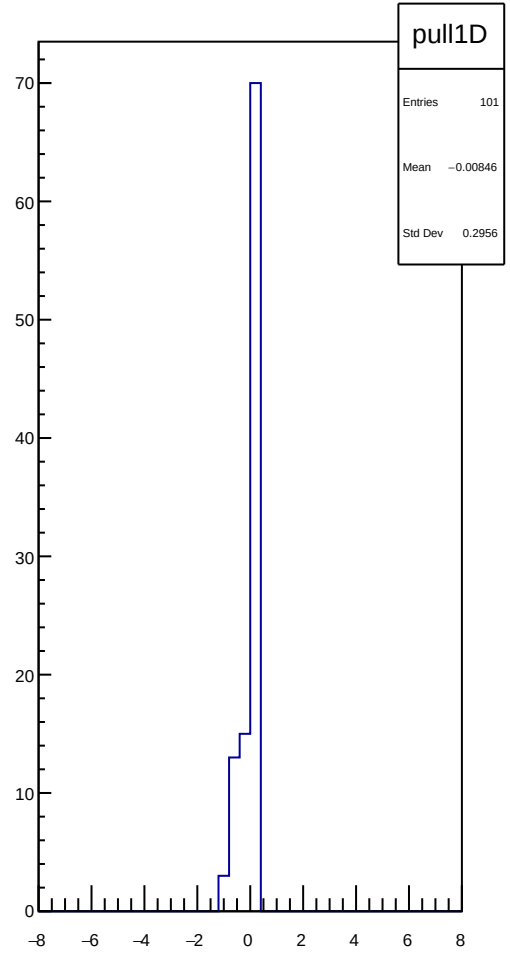

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.551 / 100
p0 59.59 ± 4.018
120
100
80
60
40
20
0
pull
Entries 101
Mean −478.1
Std Dev 0
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 101
Mean 0.001586
Std Dev 0.1239
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

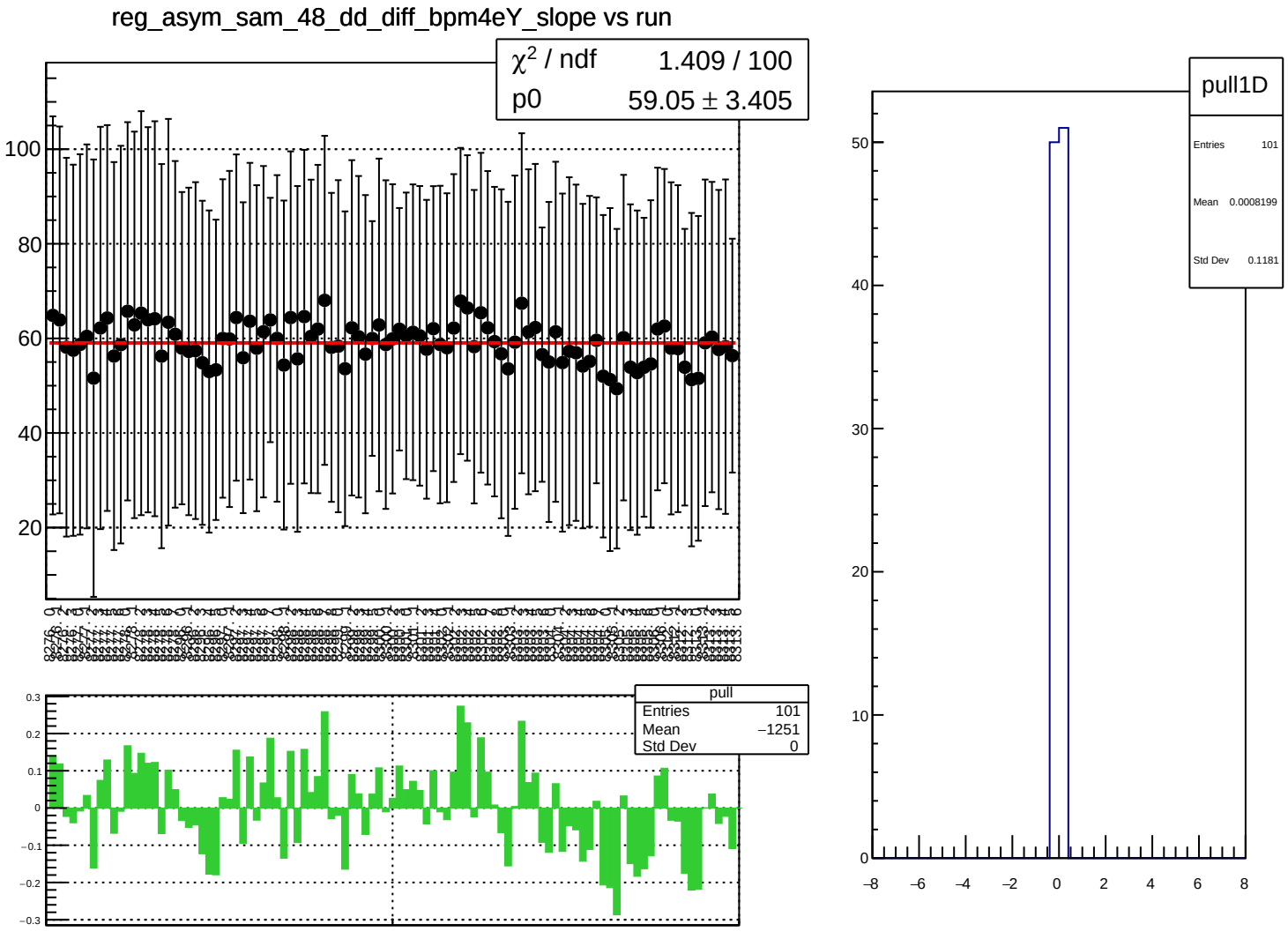

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 2.463 / 100
p0 0.2049 ± 0.2132
pull
Entries 101
Mean −66.6
Std Dev 0
pull1D
Entries 101
Mean 0.003216
Std Dev 0.1561

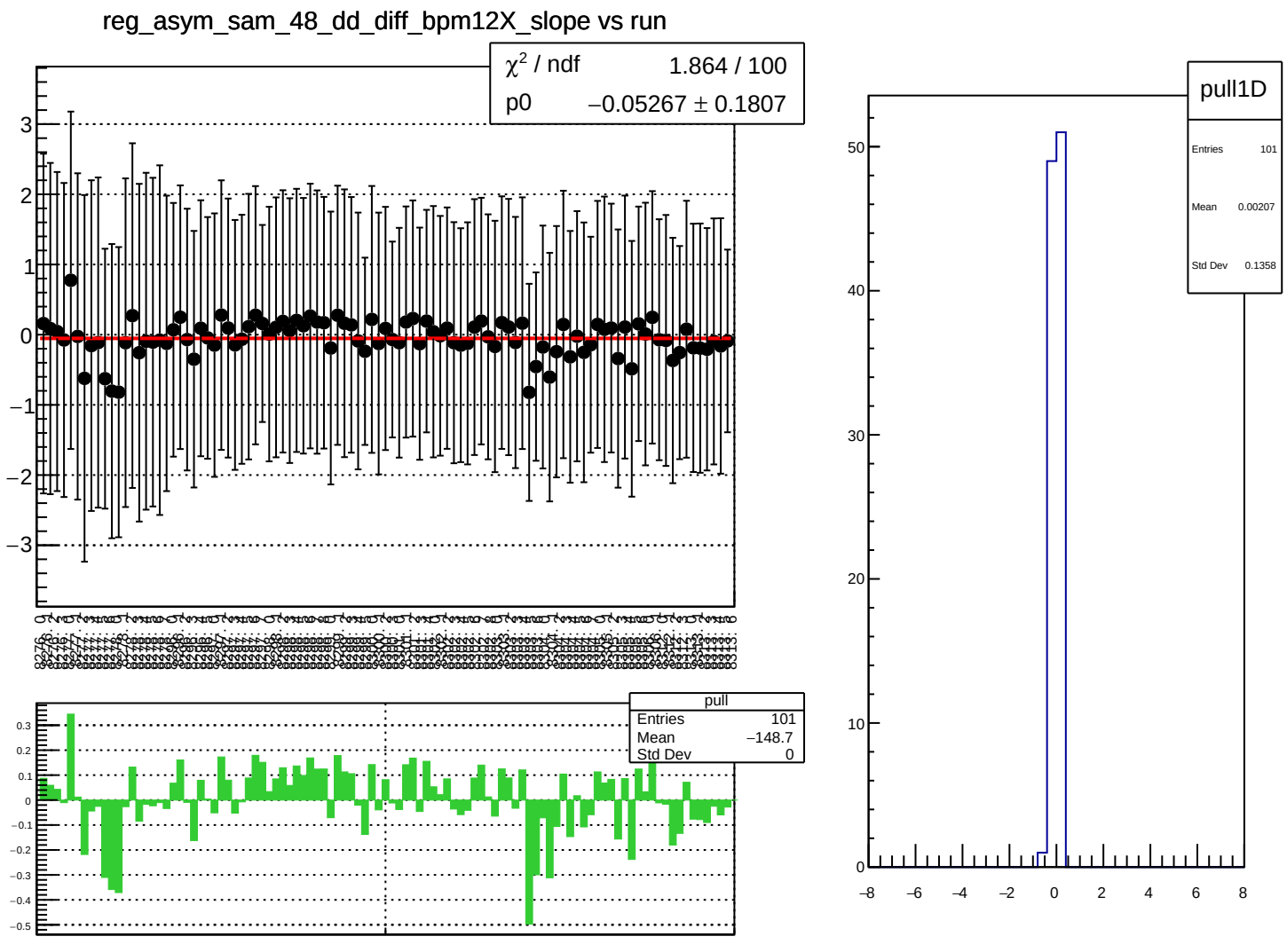

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 2.822 / 100
p0 −27.41 ± 1.68
0
−10
−20
−30
−40
−50
pull
Entries 101
Mean −1.027e+04
Std Dev 0
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 101
Mean 0.0002634
Std Dev 0.1672
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

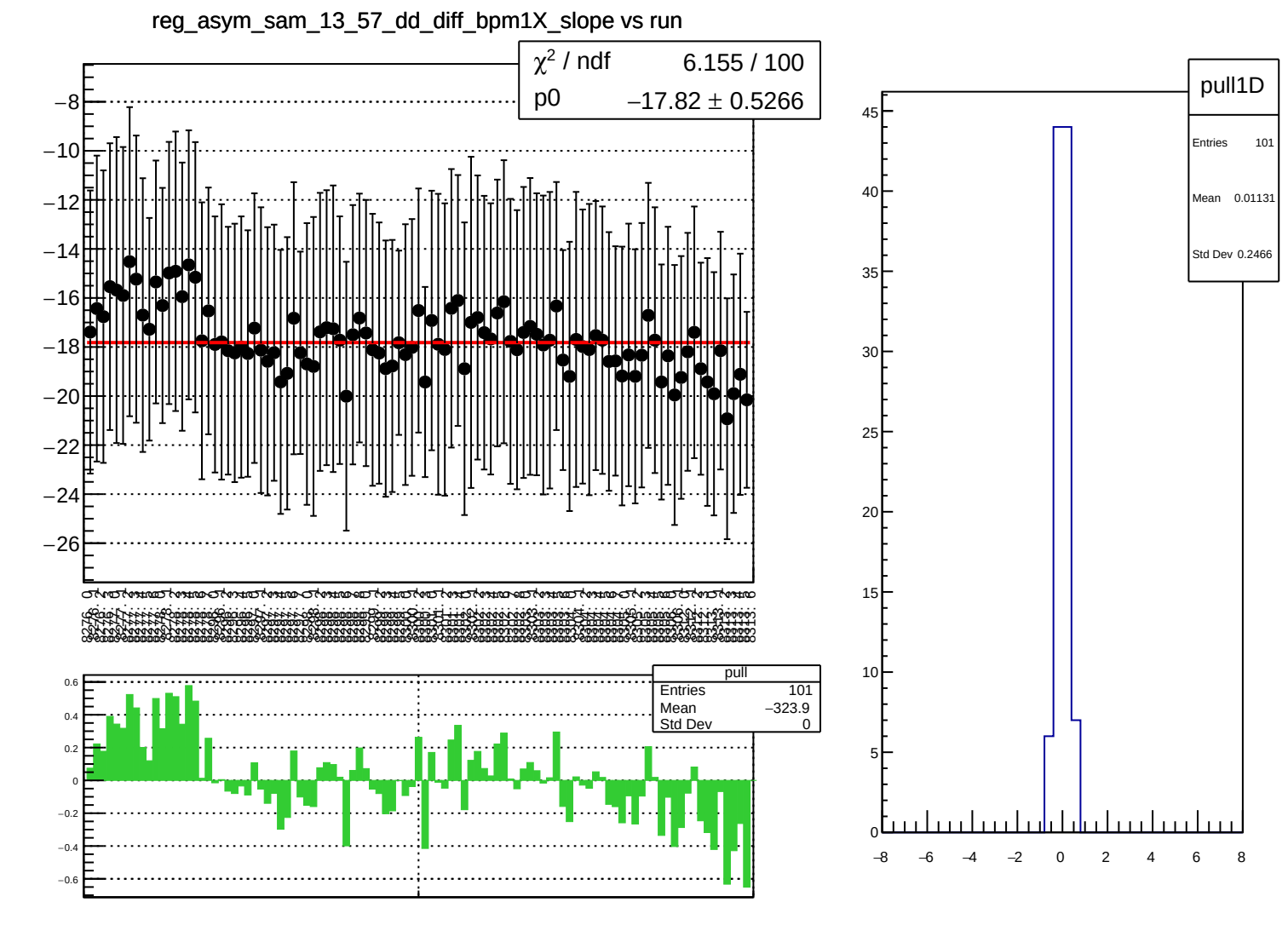

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.874 / 100
p0 57.98 ± 3.278
120
100
80
60
40
20
pull
Entries 101
Mean −36.31
Std Dev 43.58
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 101
Mean 0.00611
Std Dev 0.1361
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

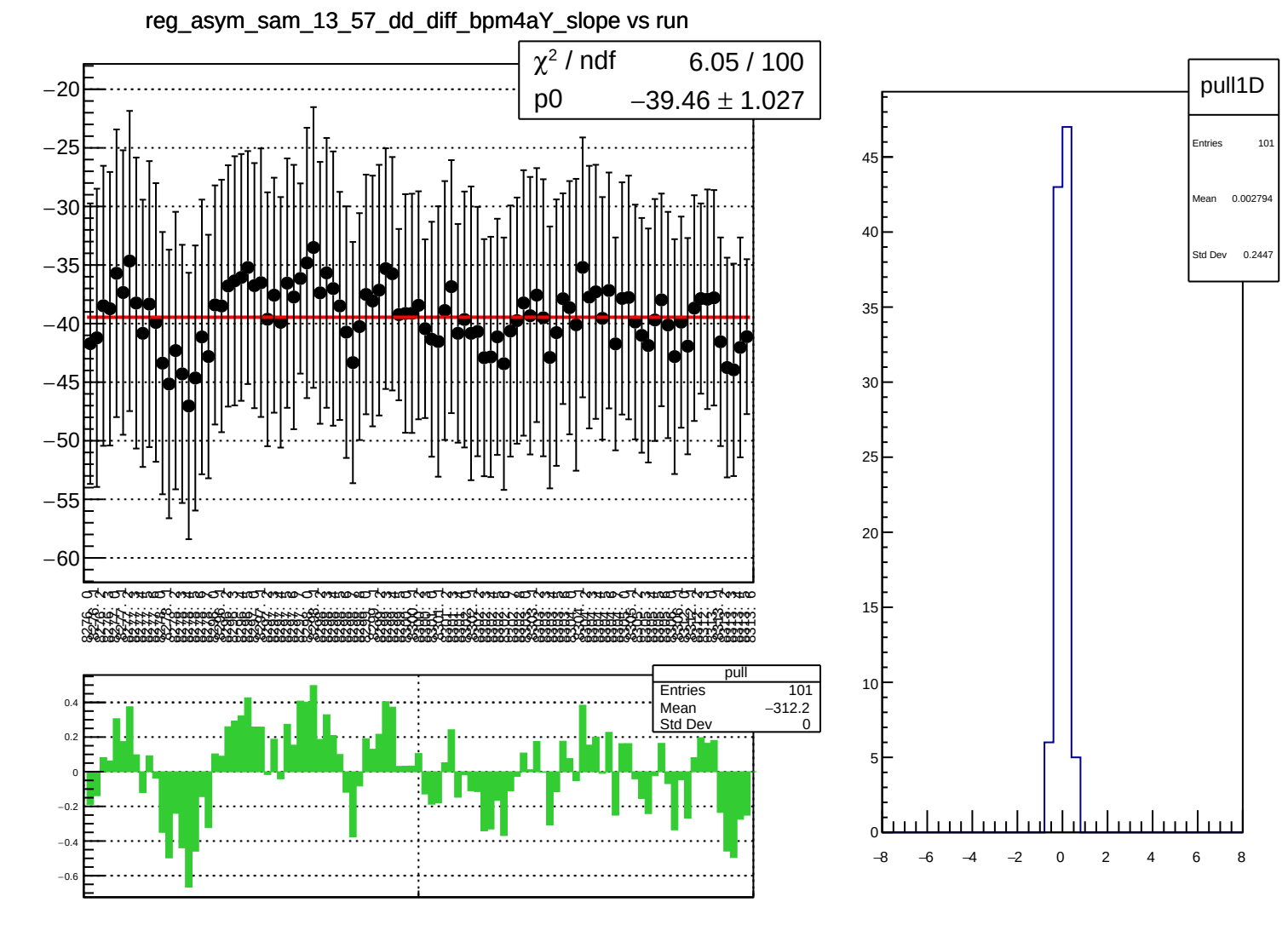

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.832 / 100
p0 −57.19 ± 1.876
pull
Entries 101
Mean −566.1
Std Dev 0

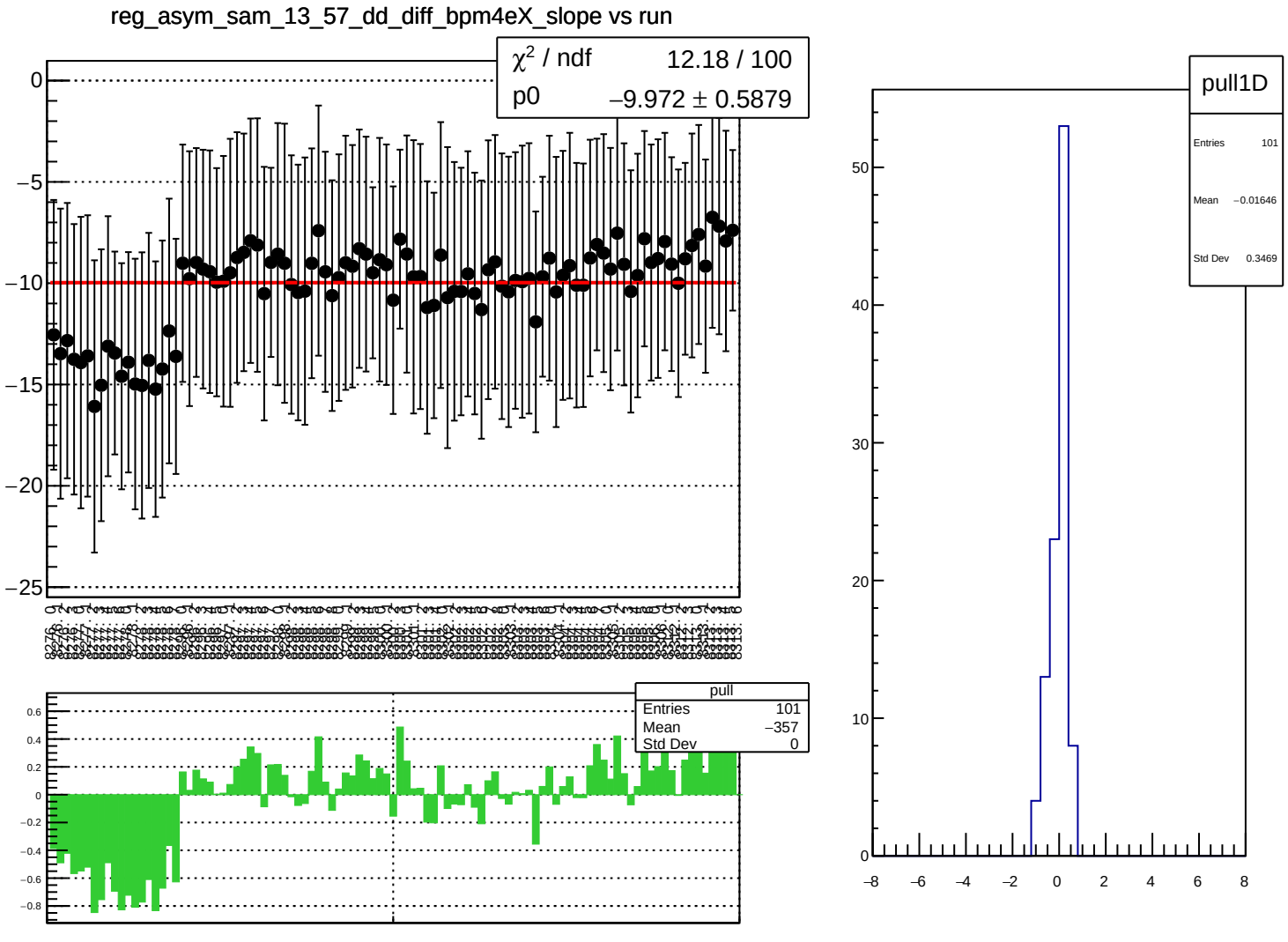

pull1D
Entries 101
Mean −0.00846
Std Dev 0.2956

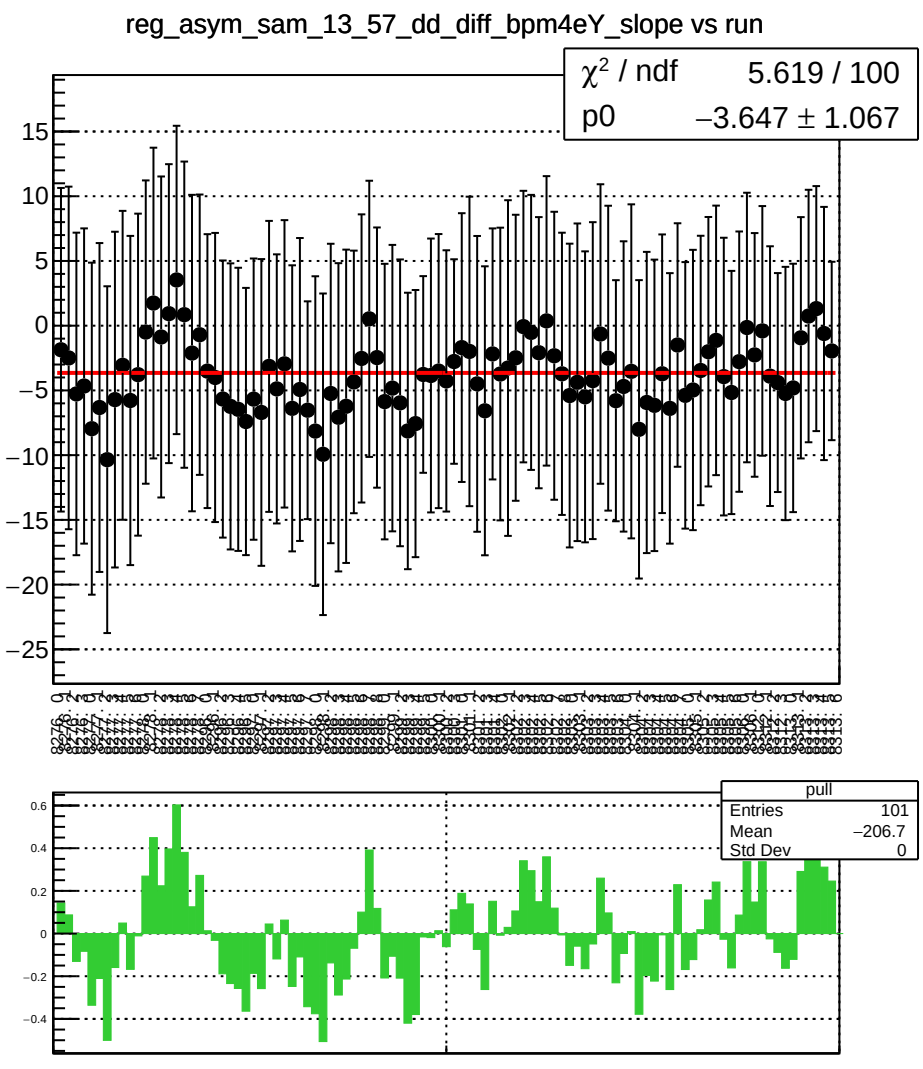

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.409 / 100
p0 59.05 ± 3.405
pull
Entries 101
Mean −1251
Std Dev 0
pull1D
Entries 101
Mean 0.0008199
Std Dev 0.1181

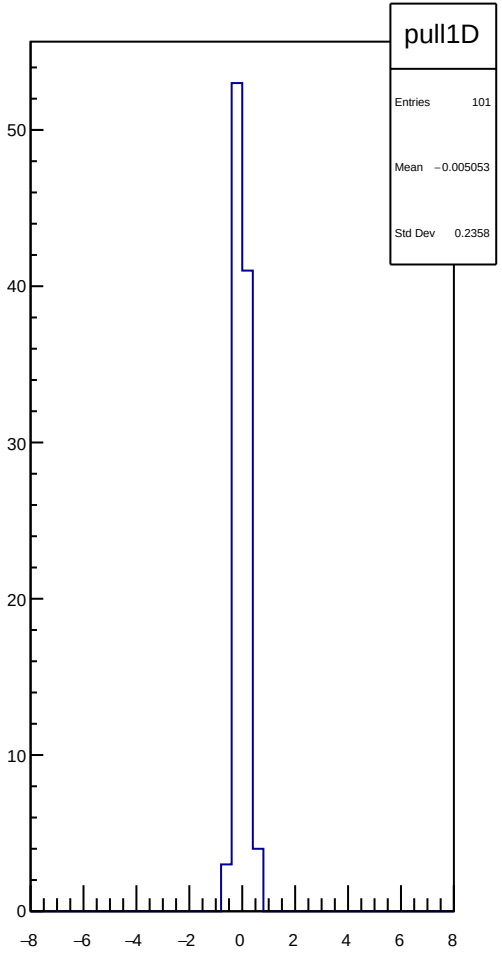

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 1.864 / 100
p0 −0.05267 ± 0.1807
pull
Entries 101
Mean −148.7
Std Dev 0
pull1D
Entries 101
Mean 0.00207
Std Dev 0.1358

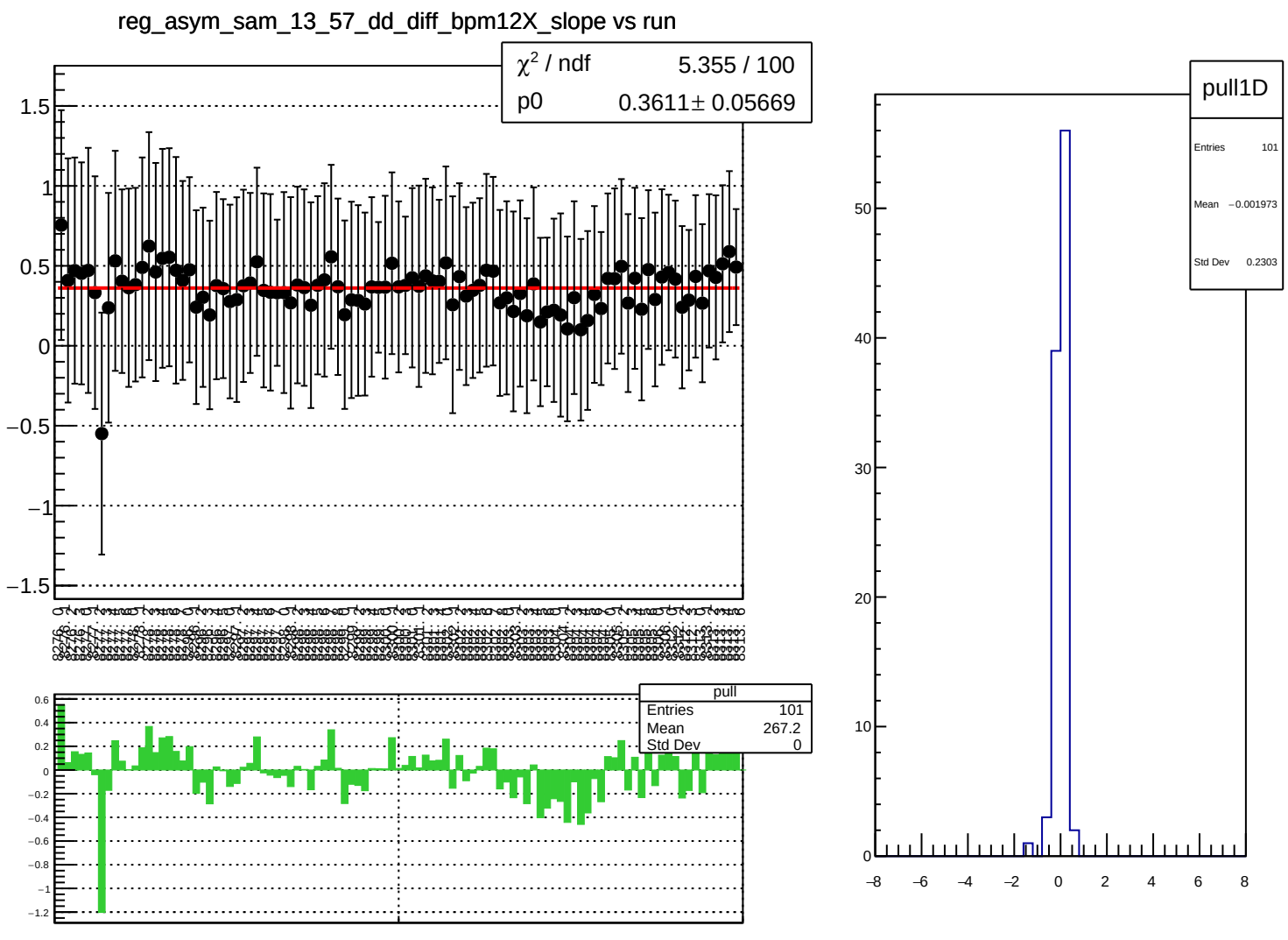

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 6.155 / 100
p0 −17.82 ± 0.5266
pull
Entries 101
Mean −323.9
Std Dev 0
pull1D
Entries 101
Mean 0.01131
Std Dev 0.2466

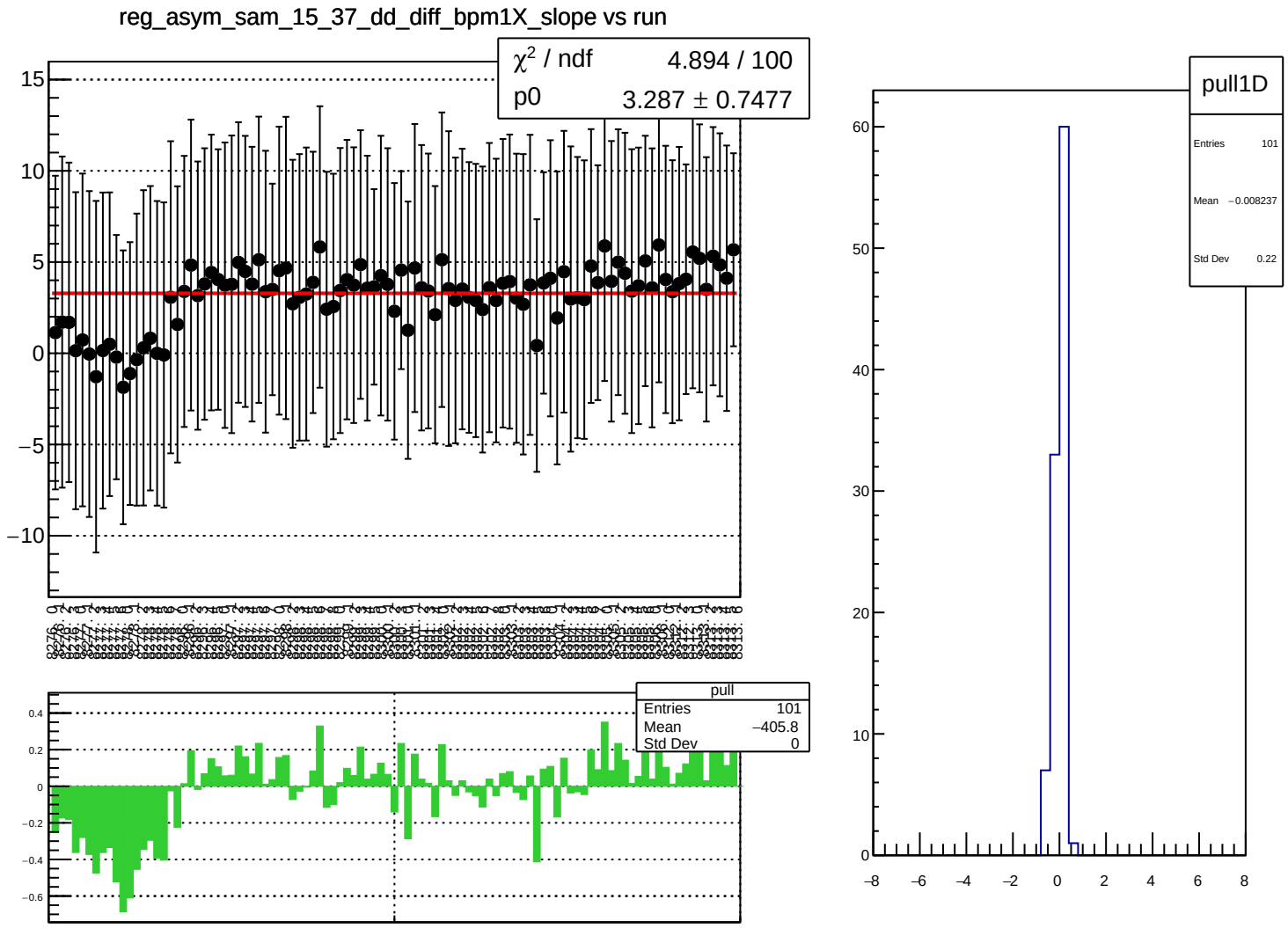

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.05 / 100
p0 −39.46 ± 1.027
pull
Entries 101
Mean −312.2
Std Dev 0
pull1D
Entries 101
Mean 0.002794
Std Dev 0.2447

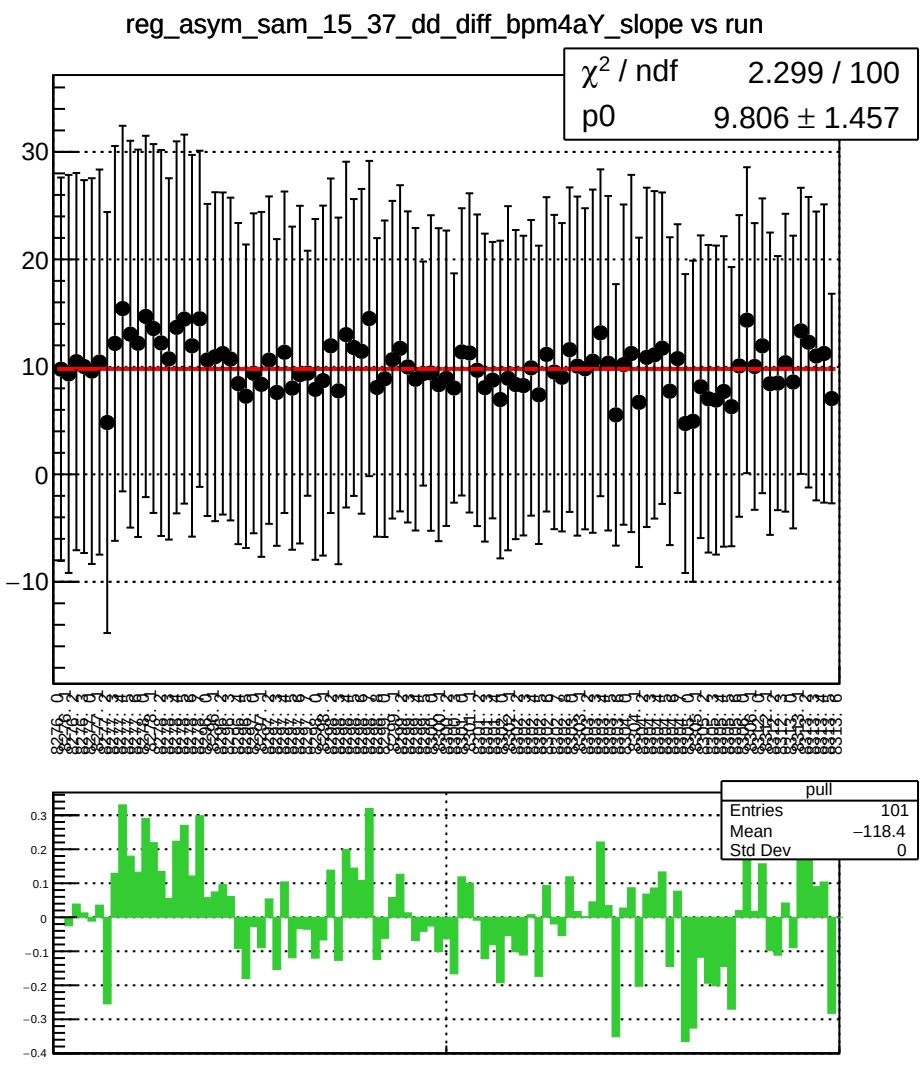

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 12.18 / 100
p0 −9.972 ± 0.5879
pull
Entries 101
Mean −357
Std Dev 0
pull1D
Entries 101
Mean −0.01646
Std Dev 0.3469

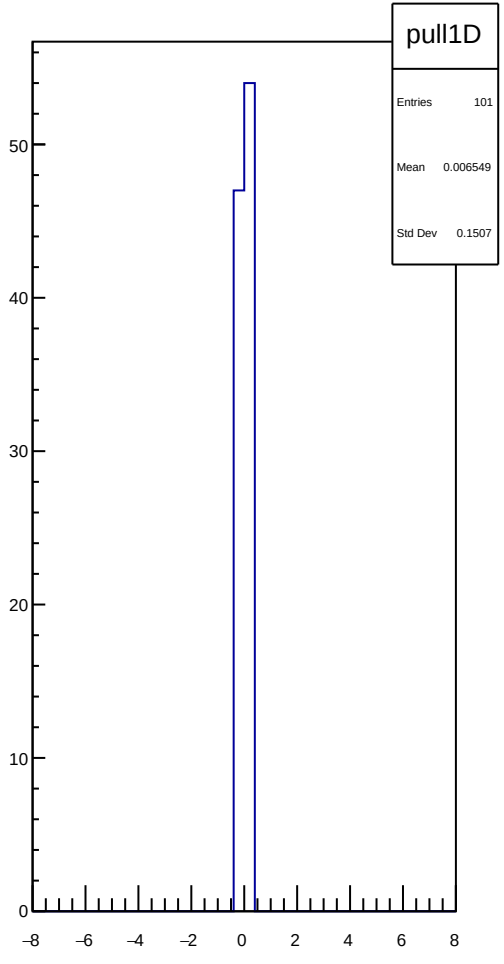

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.619 / 100
p0 −3.647 ± 1.067
pull
Entries 101
Mean −206.7
Std Dev 0

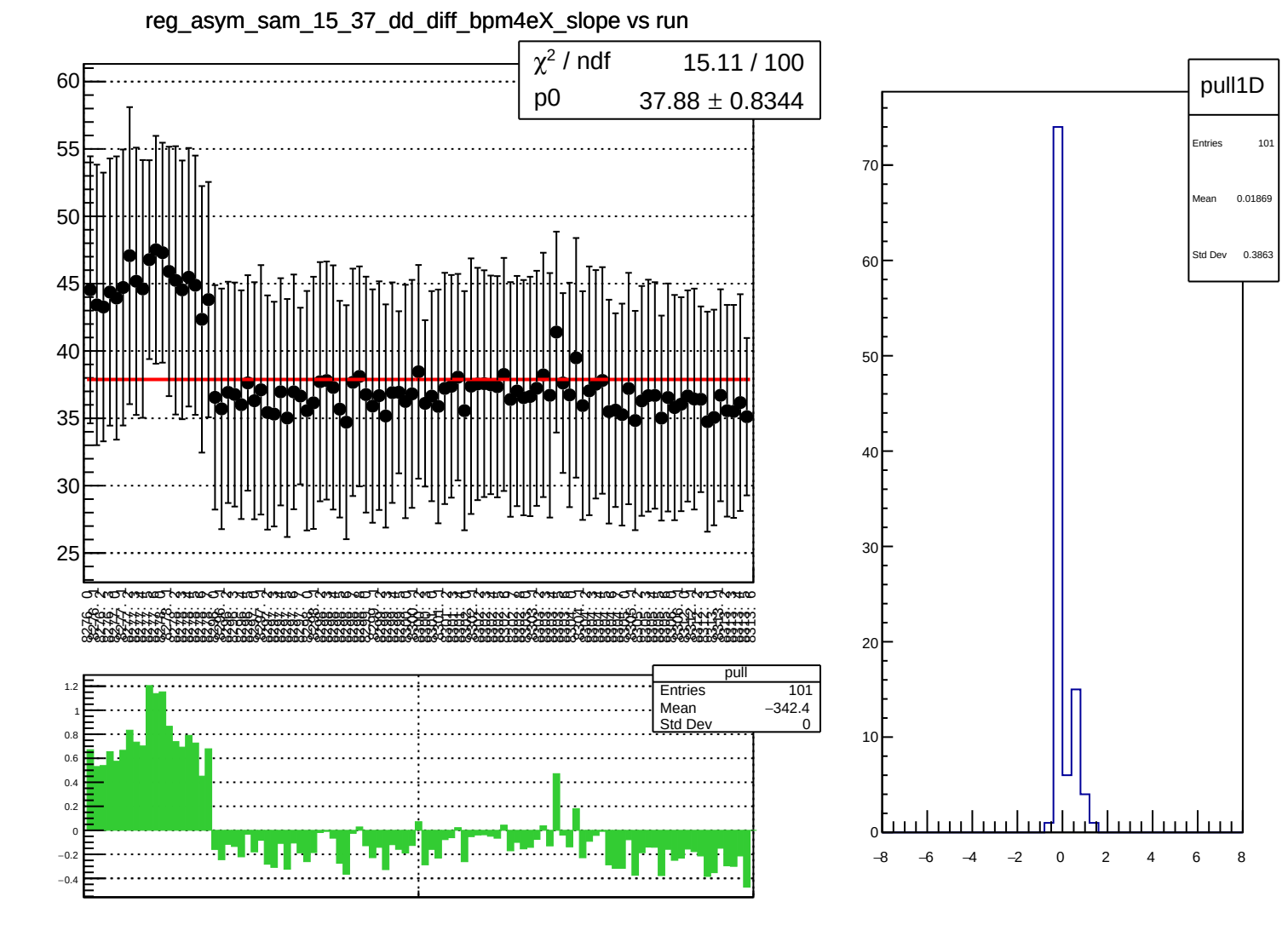

pull1D
Entries 101
Mean −0.005053
Std Dev 0.2358

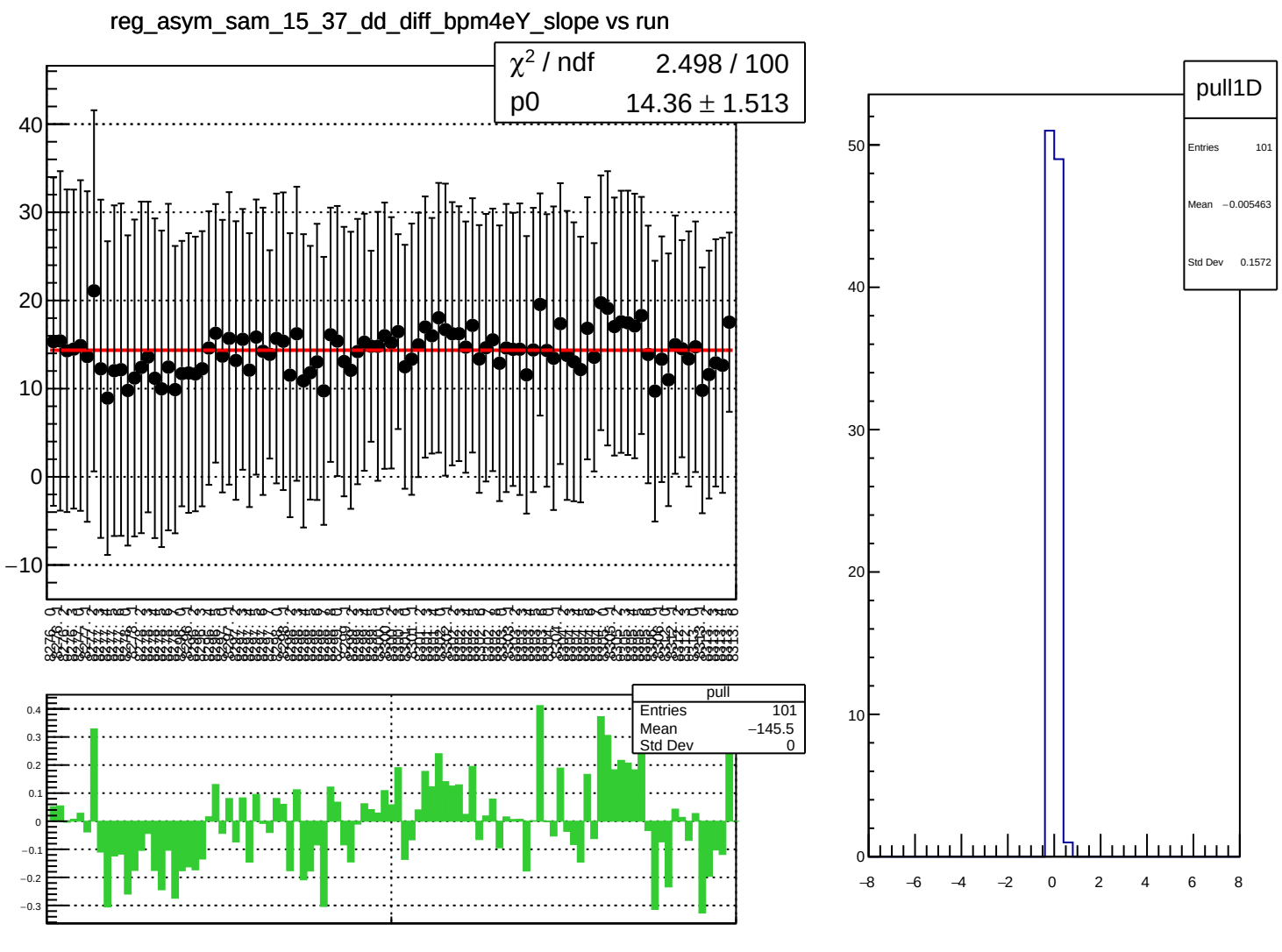

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 5.355 / 100
p0 0.3611± 0.05669
pull
Entries 101
Mean 267.2
Std Dev 0
pull1D
Entries 101
Mean −0.001973
Std Dev 0.2303

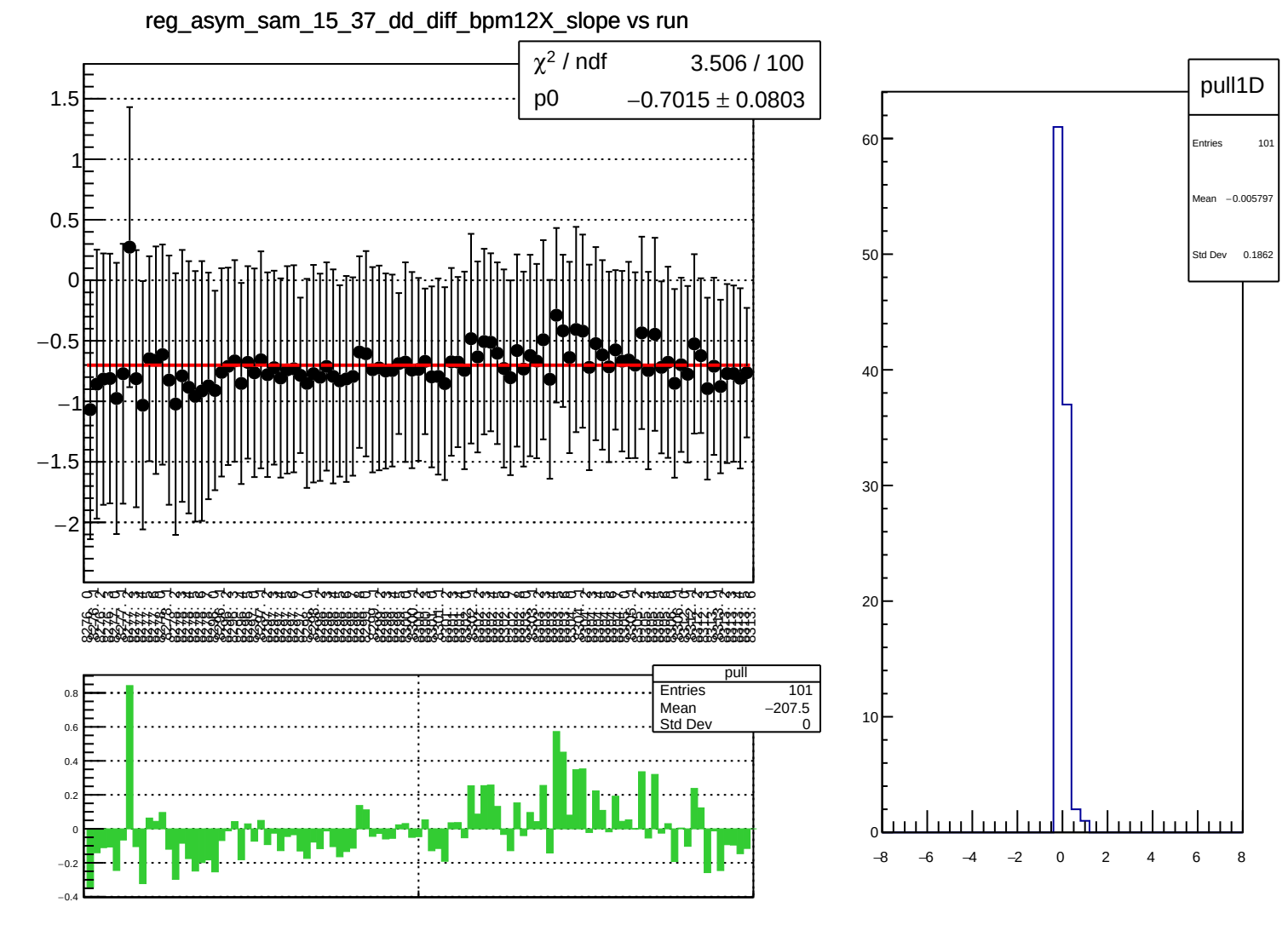

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 4.894 / 100
p0 3.287 ± 0.7477
15
10
5
0
−5
−10
pull
Entries 101
Mean −405.8
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 101
Mean −0.008237
Std Dev 0.22
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

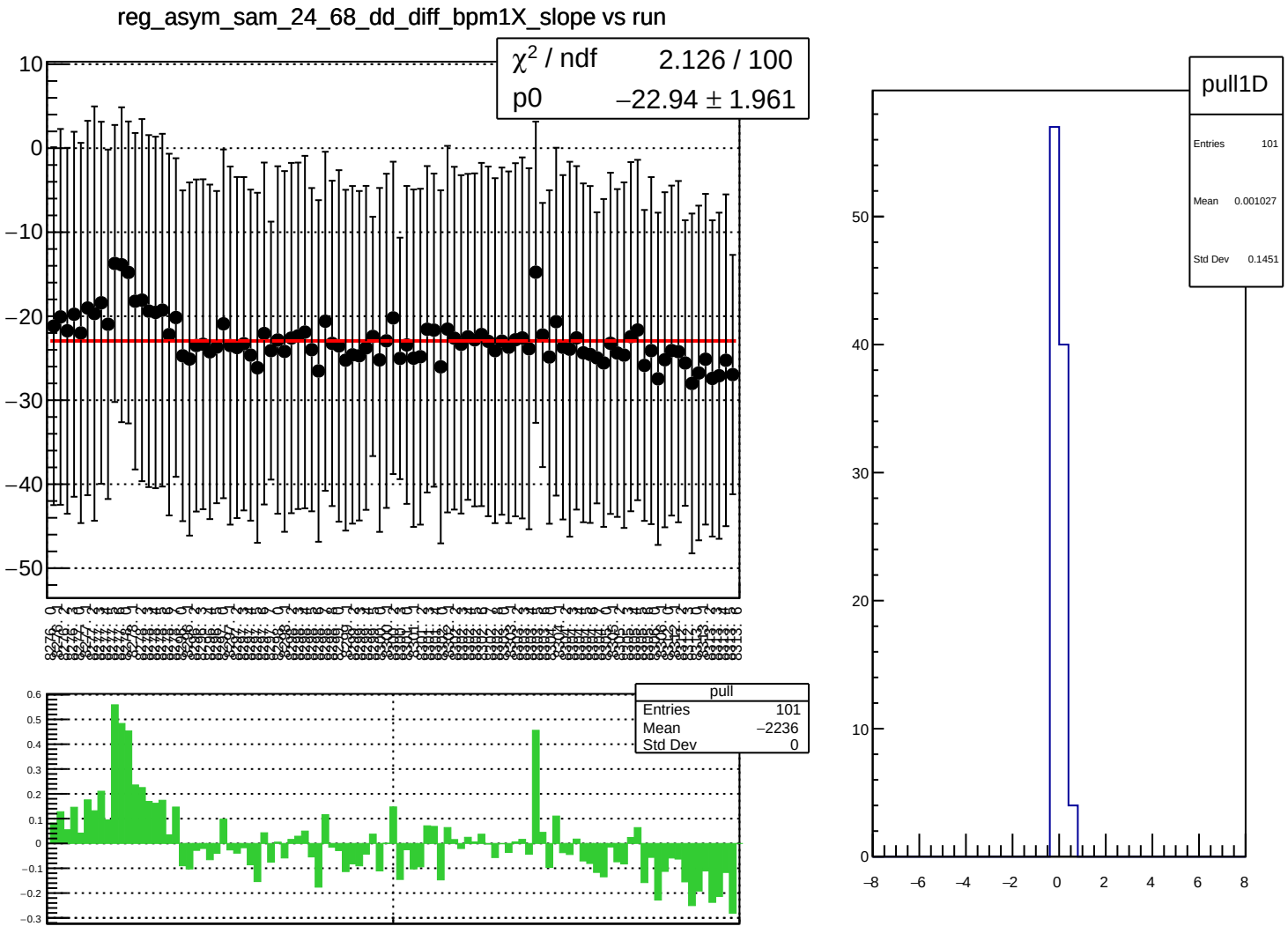

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.299 / 100
p0 9.806 ± 1.457
30
20
10
0
−10
pull
Entries 101
Mean −118.4
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

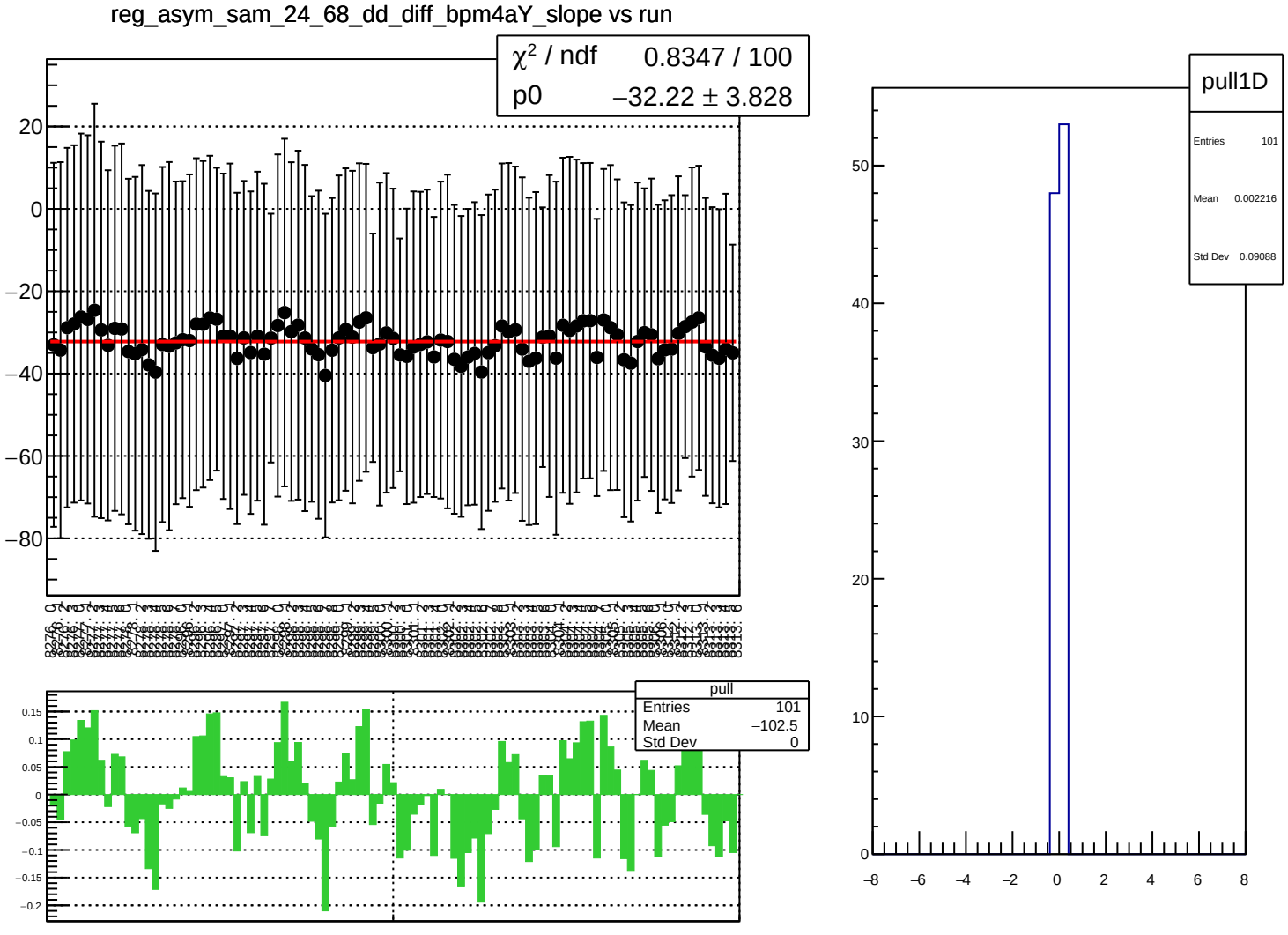

pull1D
Entries 101
Mean 0.006549
Std Dev 0.1507
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

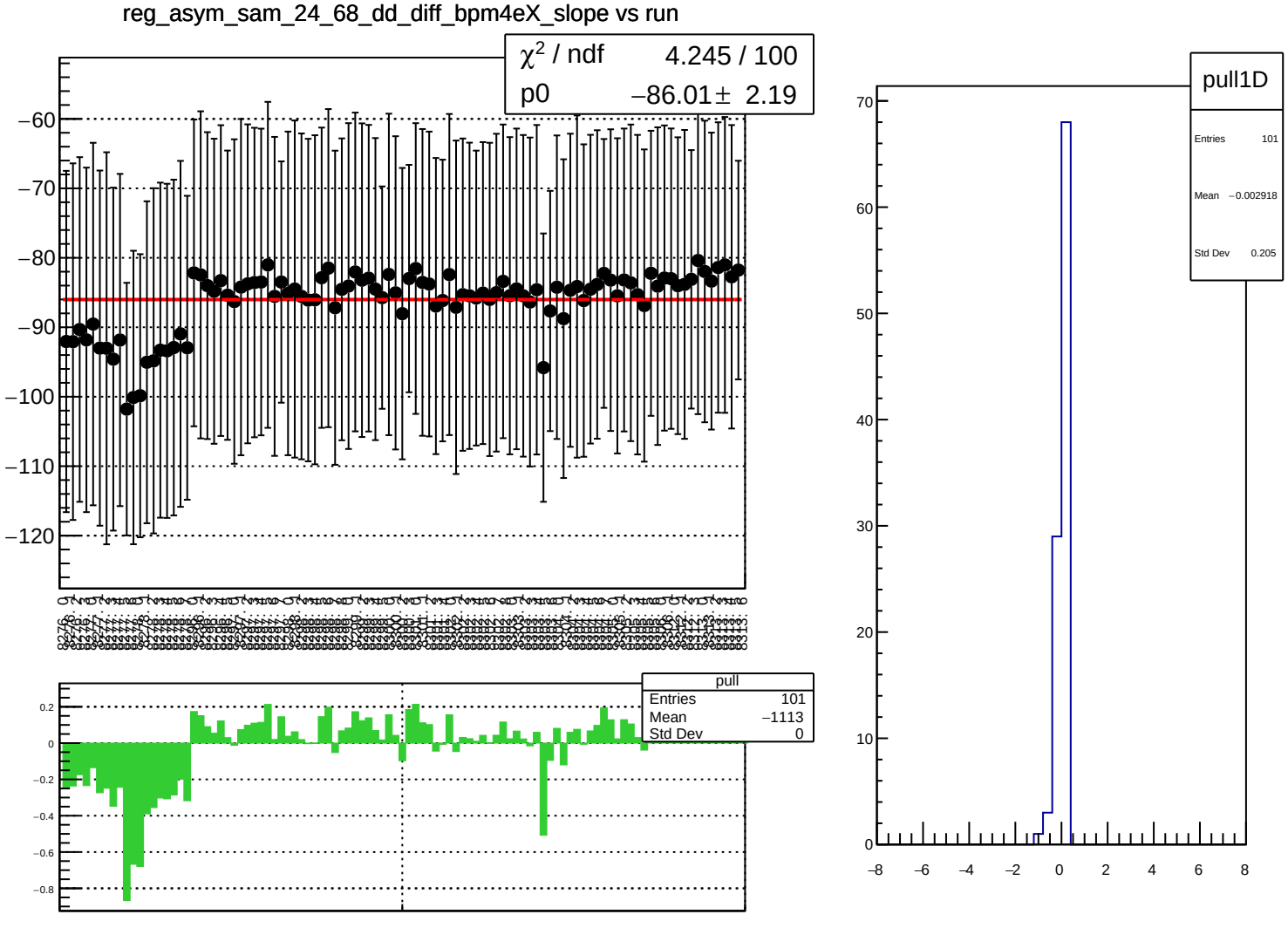

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.11 / 100
p0 37.88 ± 0.8344
pull
Entries 101
Mean −342.4
Std Dev 0
pull1D
Entries 101
Mean 0.01869
Std Dev 0.3863

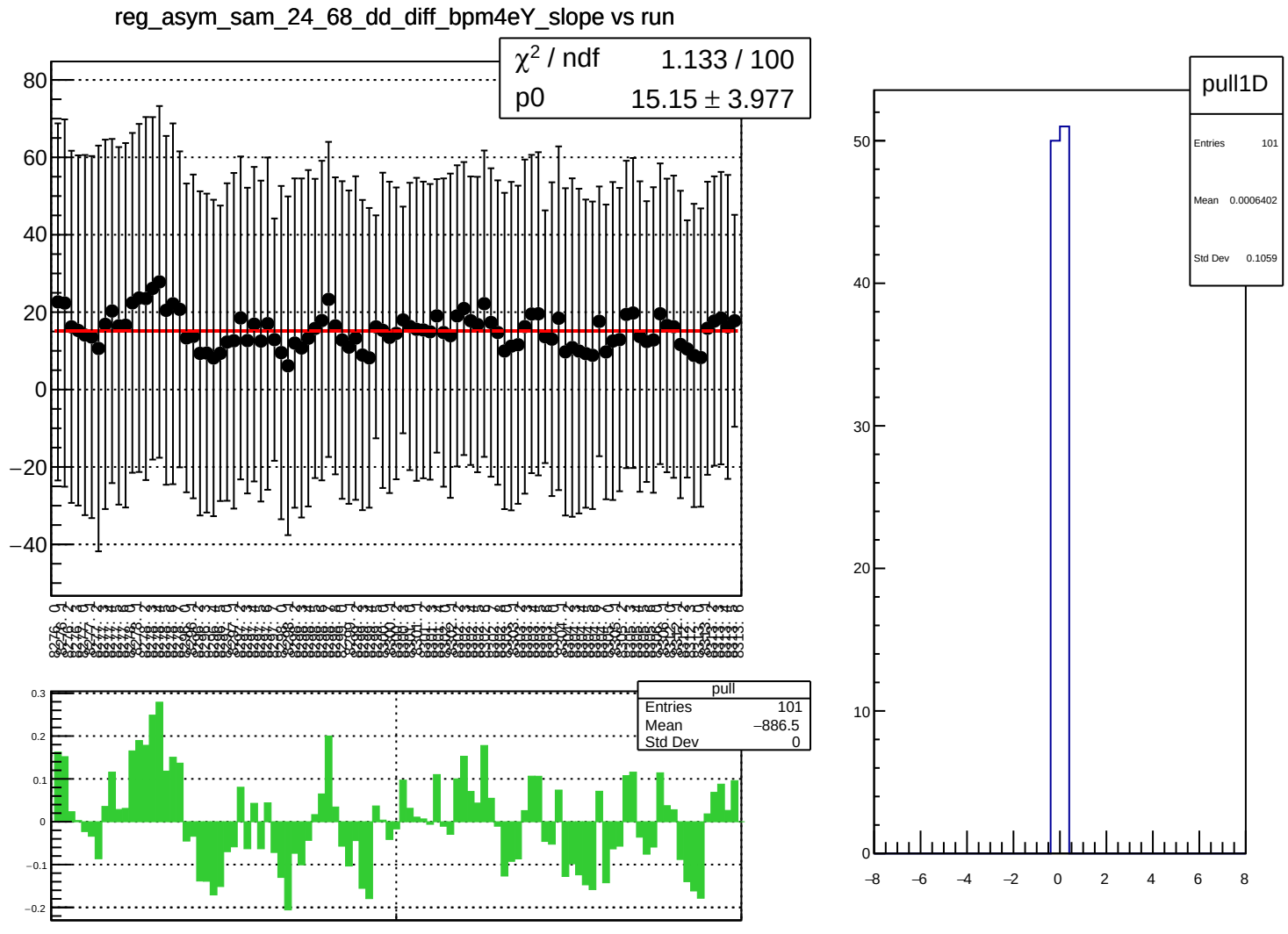

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.498 / 100
p0 14.36 ± 1.513
pull
Entries 101
Mean −145.5
Std Dev 0
pull1D
Entries 101
Mean −0.005463
Std Dev 0.1572

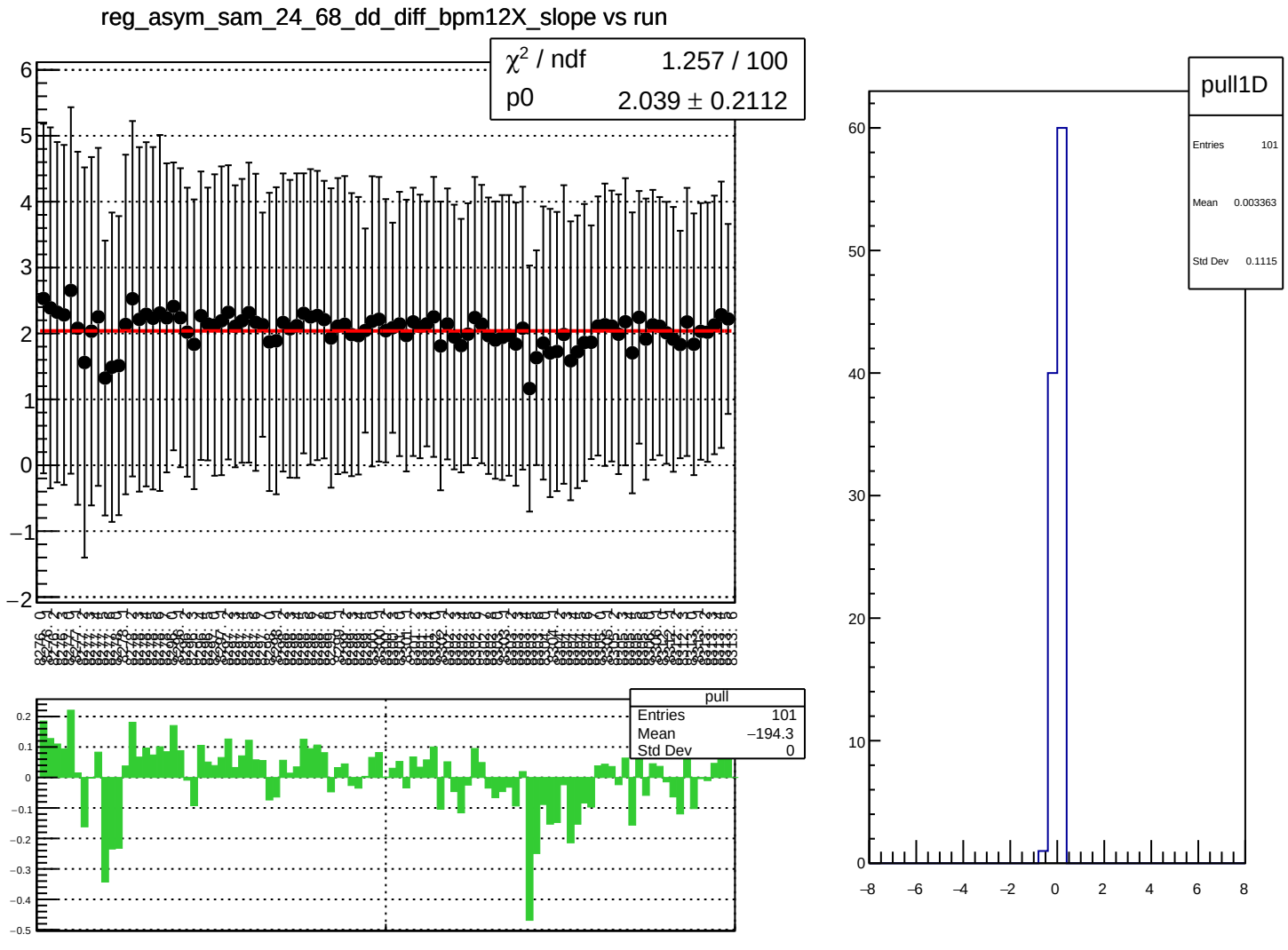

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 3.506 / 100
p0 −0.7015 ± 0.0803
pull
Entries 101
Mean −207.5
Std Dev 0
pull1D
Entries 101
Mean −0.005797
Std Dev 0.1862

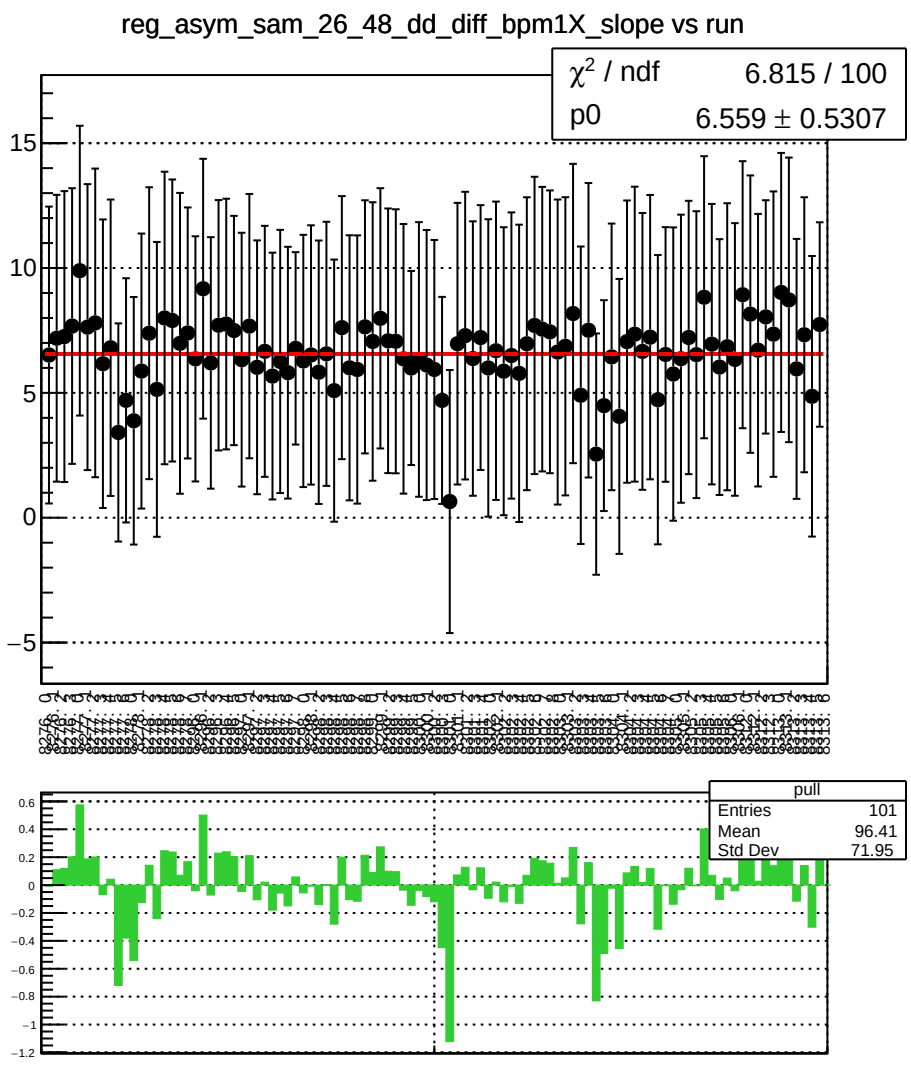

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 2.126 / 100
p0 −22.94 ± 1.961
pull
Entries 101
Mean −2236
Std Dev 0
pull1D
Entries 101
Mean 0.001027
Std Dev 0.1451

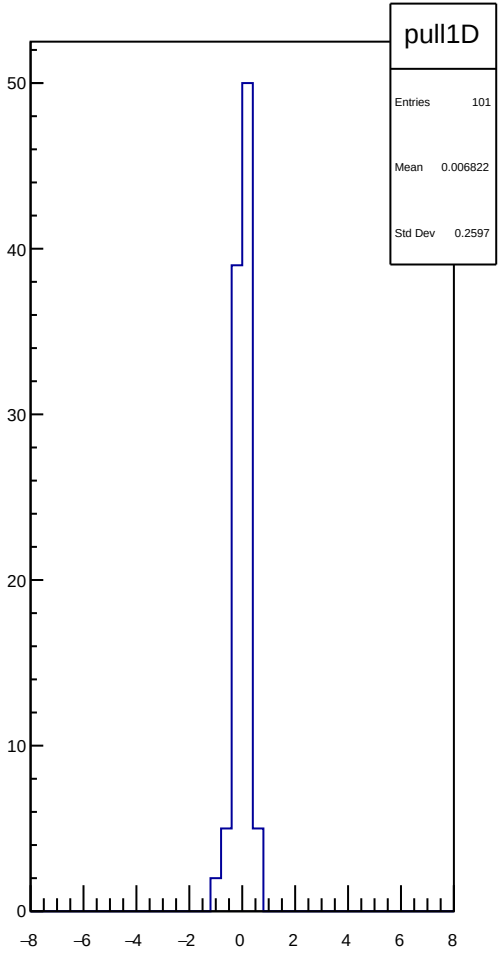

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.8347 / 100
p0 −32.22 ± 3.828
pull
Entries 101
Mean −102.5
Std Dev 0
pull1D
Entries 101
Mean 0.002216
Std Dev 0.09088

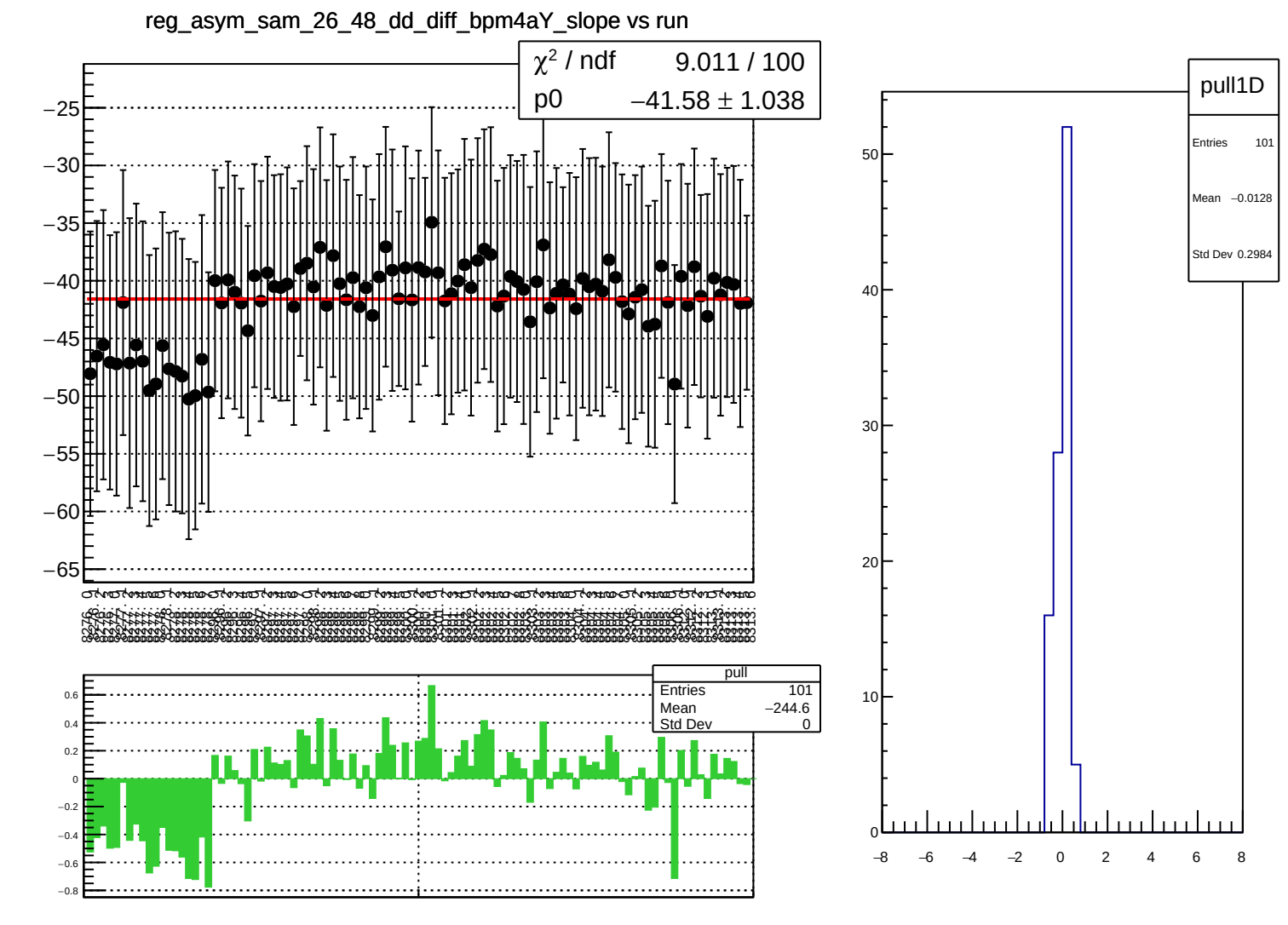

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.245 / 100
p0 −86.01 ± 2.19
pull
Entries 101
Mean −1113
Std Dev 0
pull1D
Entries 101
Mean −0.002918
Std Dev 0.205

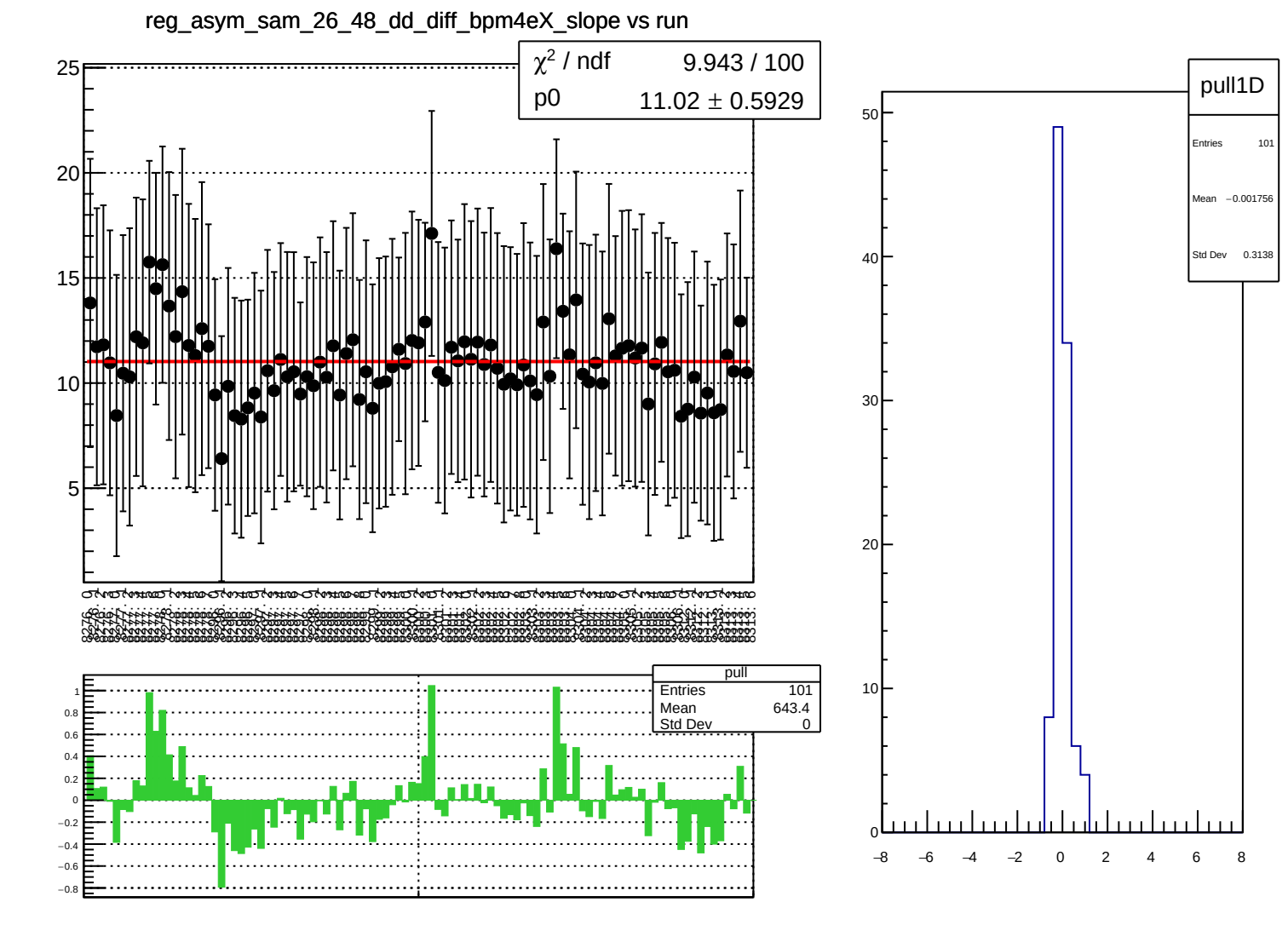

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.133 / 100
p0 15.15 ± 3.977
pull
Entries 101
Mean −886.5
Std Dev 0
pull1D
Entries 101
Mean 0.0006402
Std Dev 0.1059

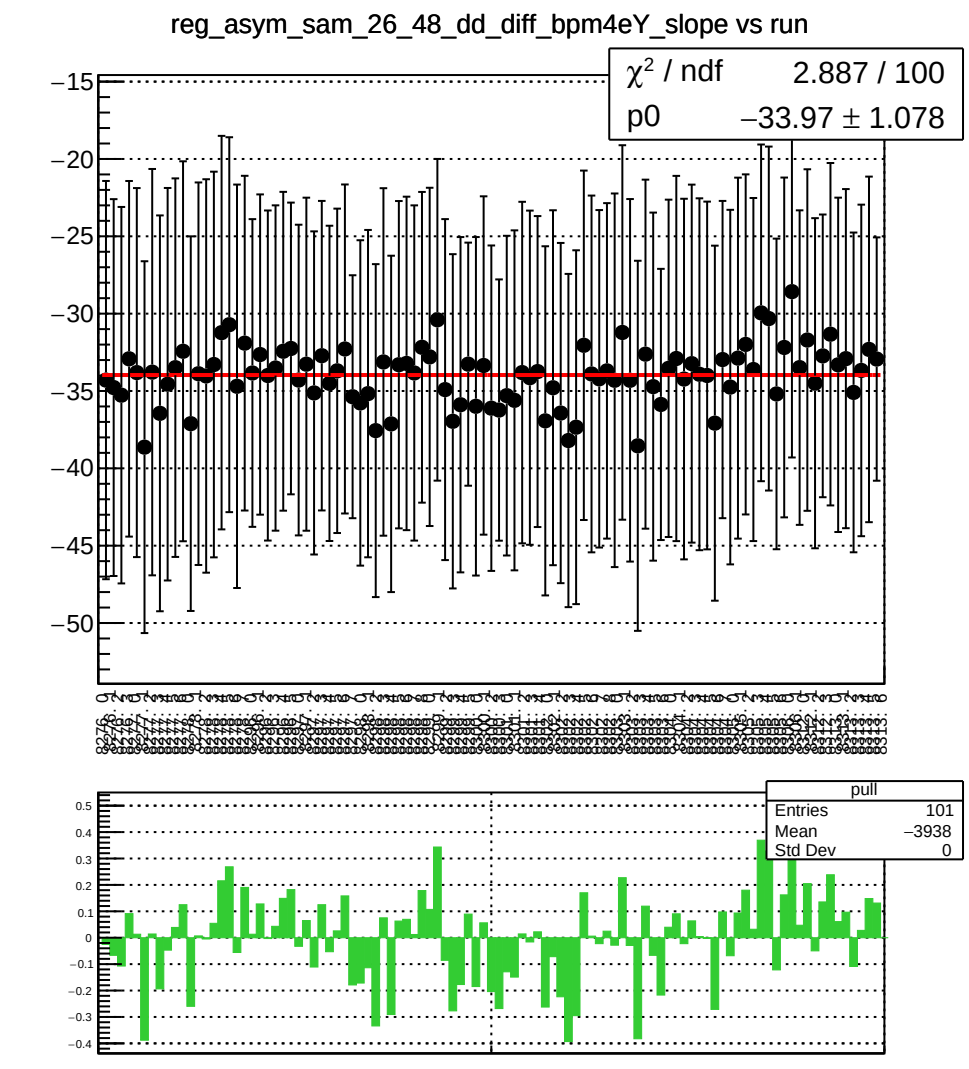

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 1.257 / 100
p0 2.039 ± 0.2112
pull
Entries 101
Mean −194.3
Std Dev 0
pull1D
Entries 101
Mean 0.003363
Std Dev 0.1115

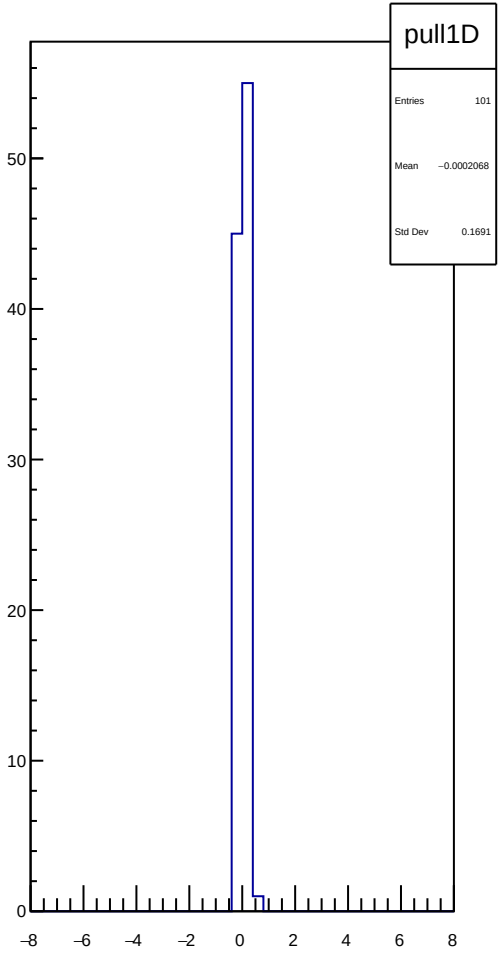

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 6.815 / 100
p0 6.559 ± 0.5307
pull
Entries 101
Mean 96.41
Std Dev 71.95

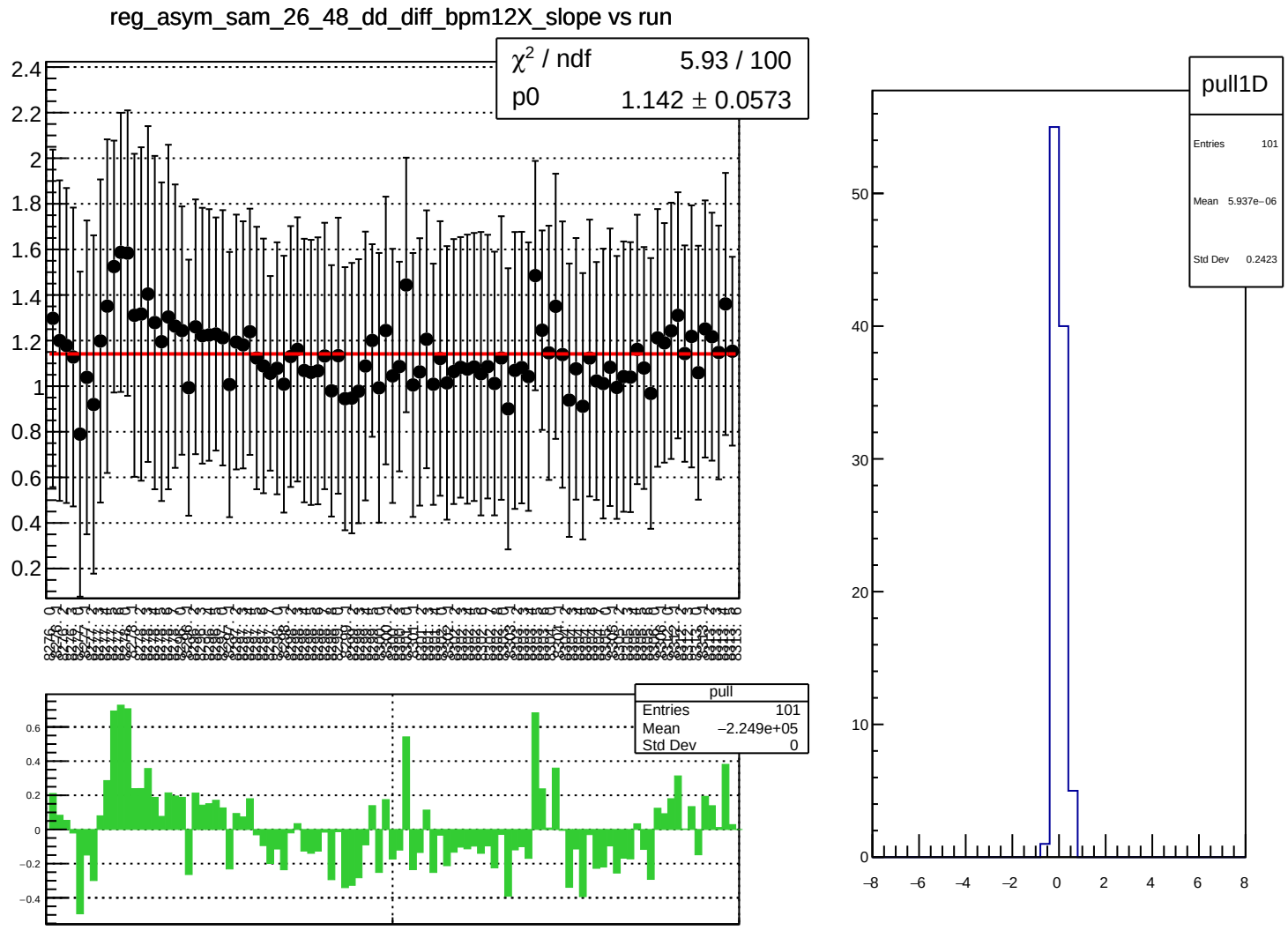

pull1D
Entries 101
Mean 0.006822
Std Dev 0.2597

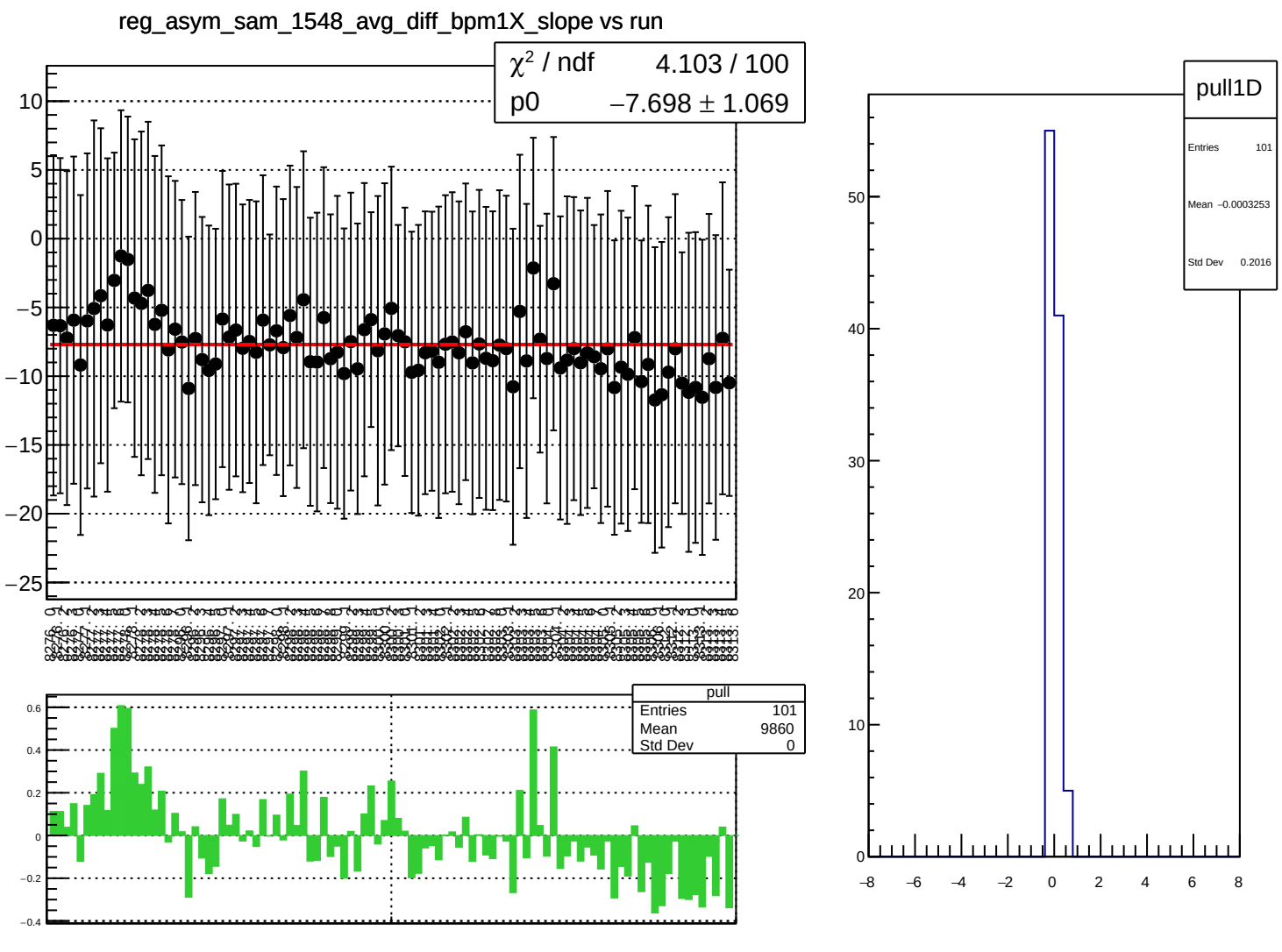

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.011 / 100
p0 −41.58 ± 1.038
pull
Entries 101
Mean −244.6
Std Dev 0
pull1D
Entries 101
Mean −0.0128
Std Dev 0.2984

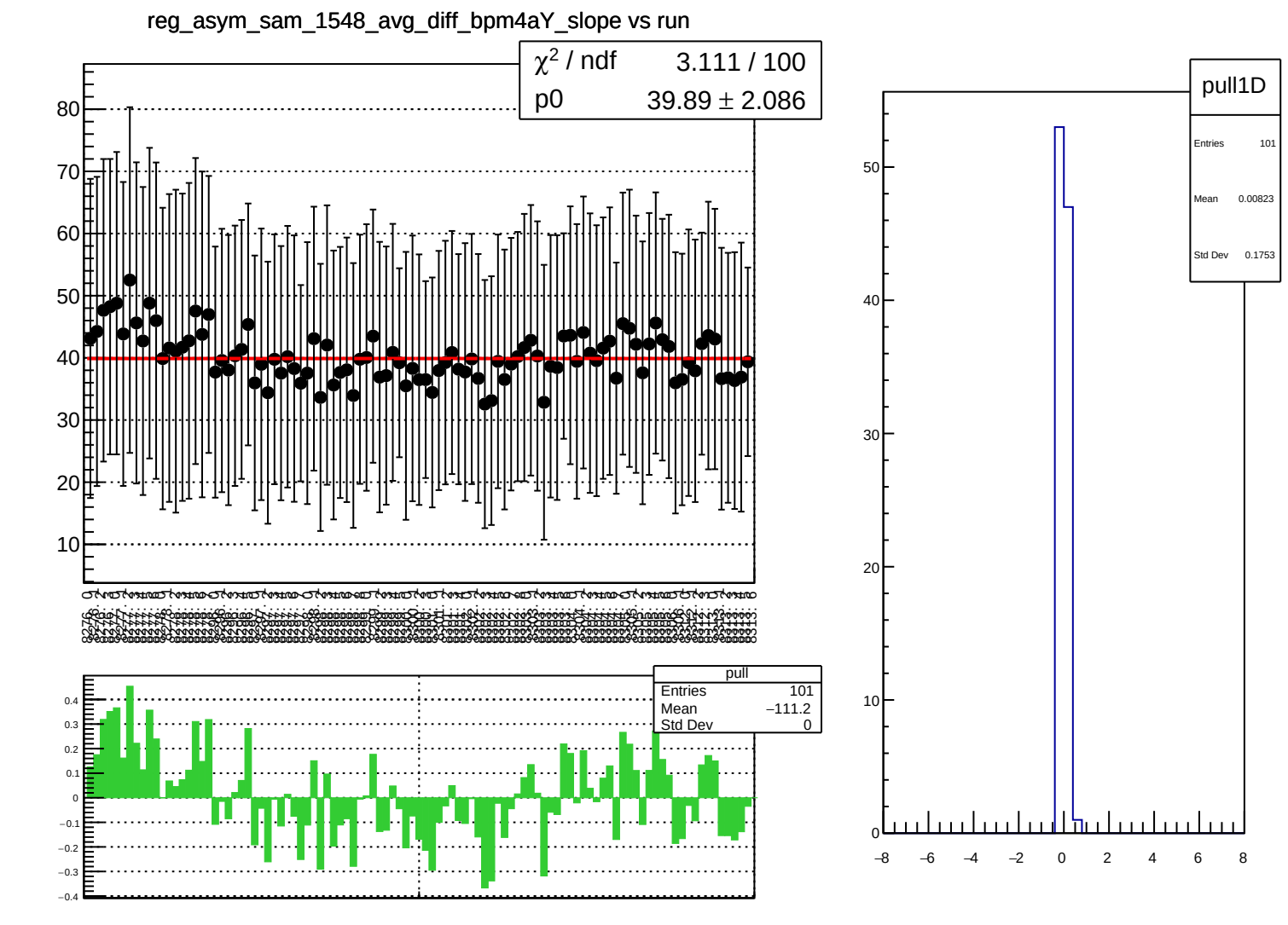

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.943 / 100
p0 11.02 ± 0.5929
pull
Entries 101
Mean 643.4
Std Dev 0
pull1D
Entries 101
Mean −0.001756
Std Dev 0.3138

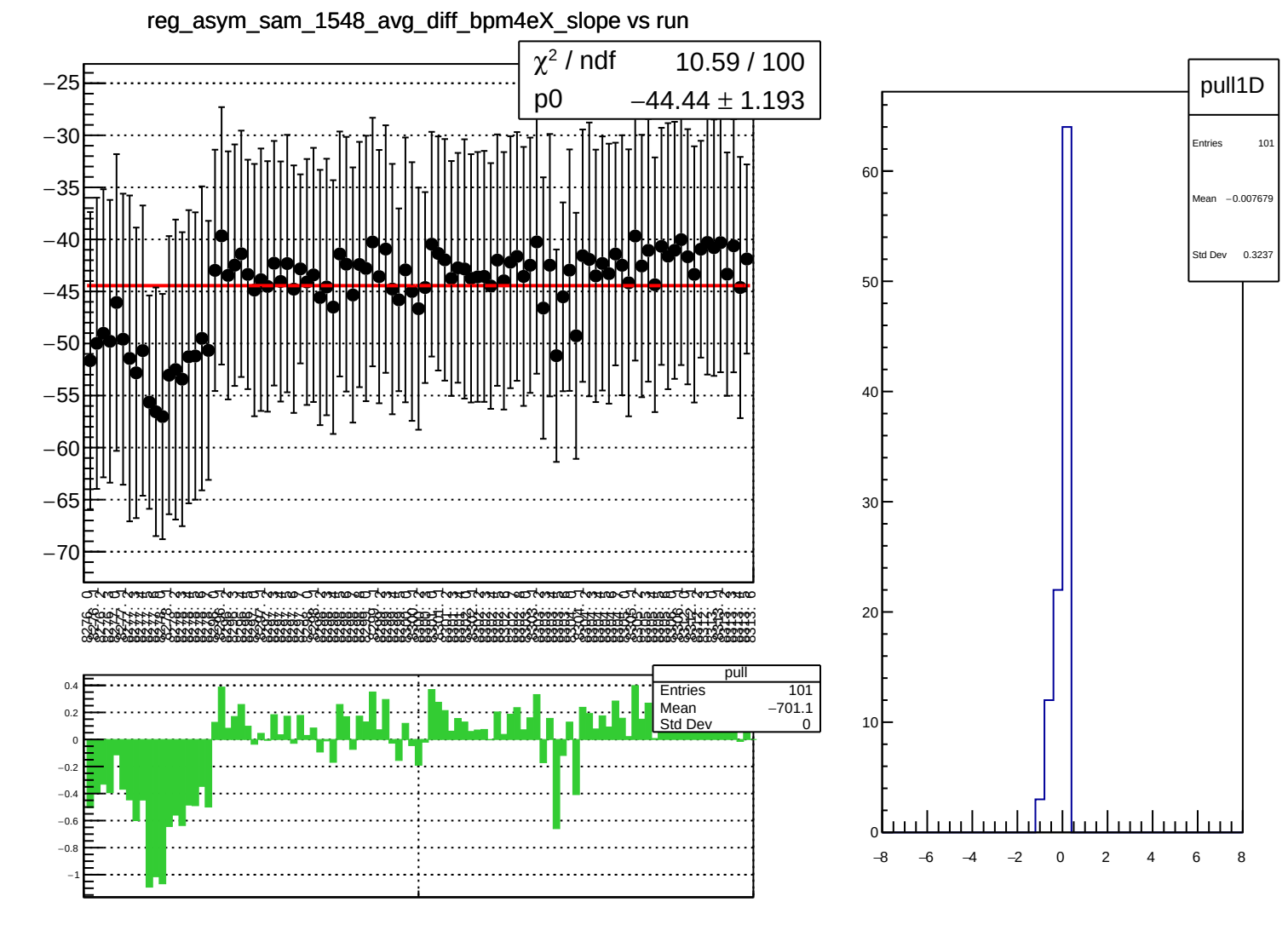

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.887 / 100
p0 −33.97 ± 1.078
pull
Entries 101
Mean −3938
Std Dev 0

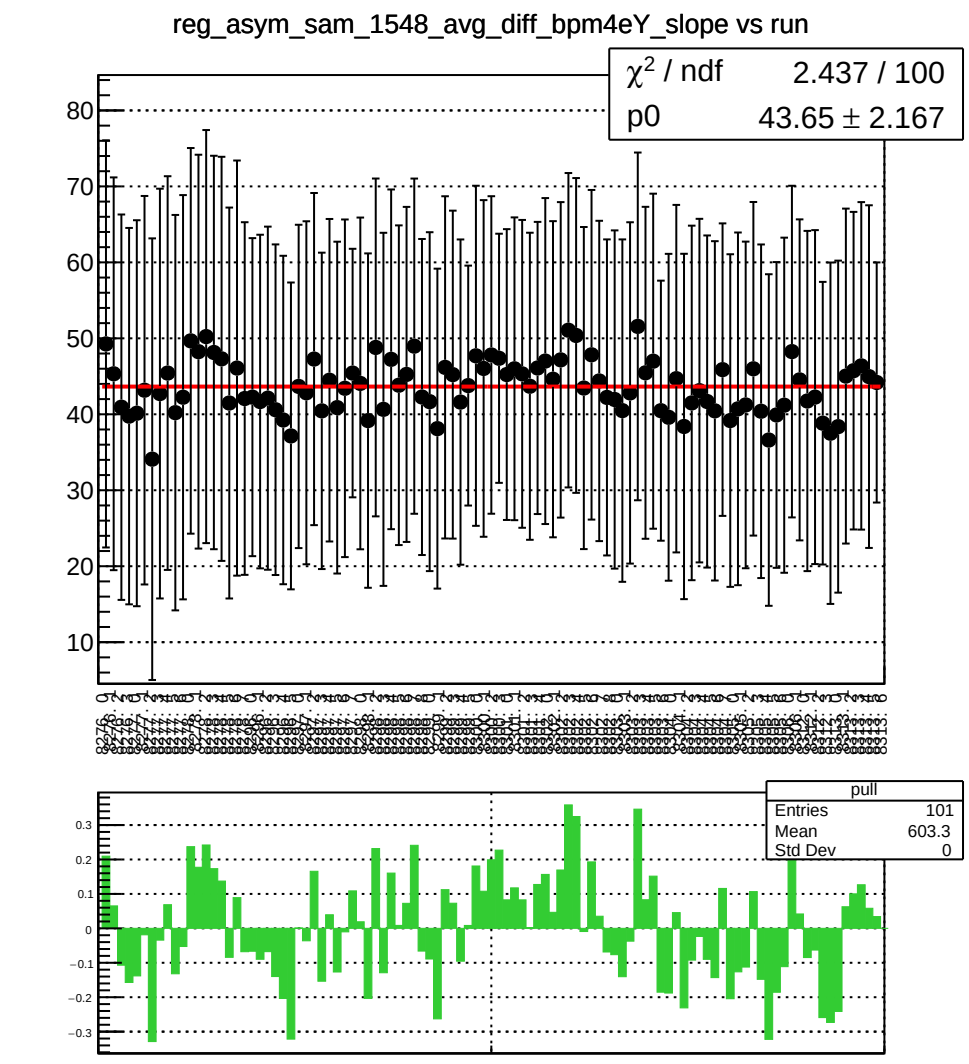

pull1D
Entries 101
Mean −0.0002068
Std Dev 0.1691

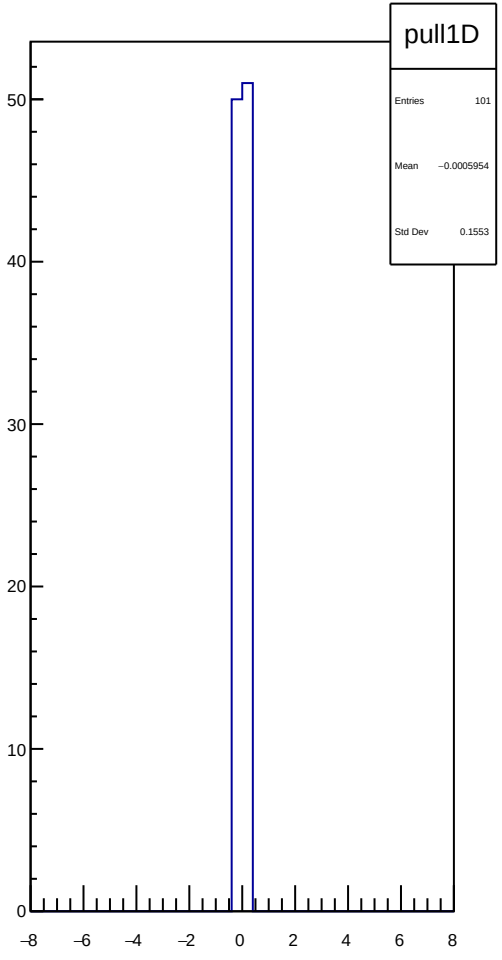

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 5.93 / 100
p0 1.142 ± 0.0573
pull
Entries 101
Mean −2.249e+05
Std Dev 0
pull1D
Entries 101
Mean 5.937e−06
Std Dev 0.2423

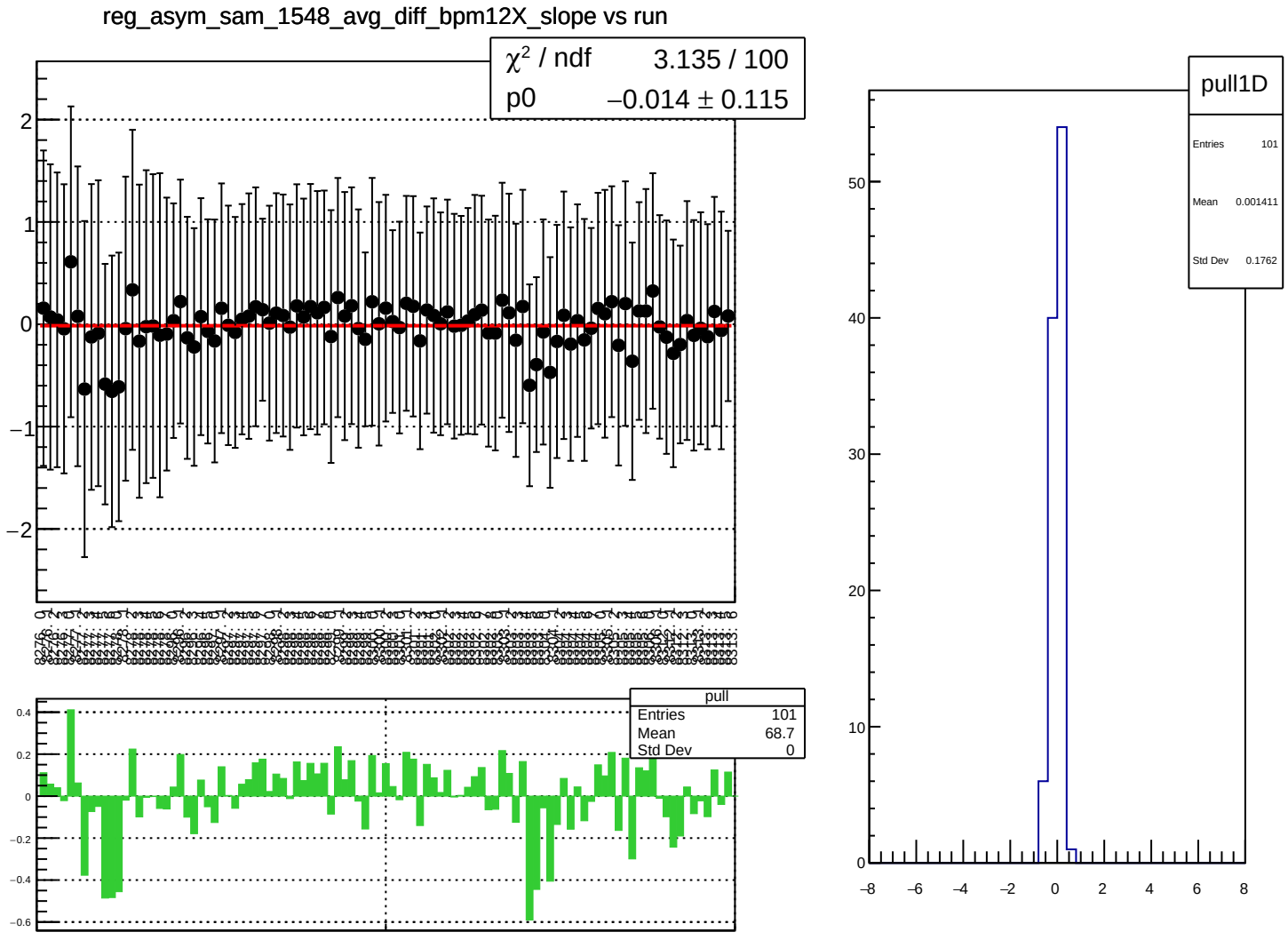

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 4.103 / 100
p0 −7.698 ± 1.069
pull
Entries 101
Mean 9860
Std Dev 0
pull1D
Entries 101
Mean −0.0003253
Std Dev 0.2016

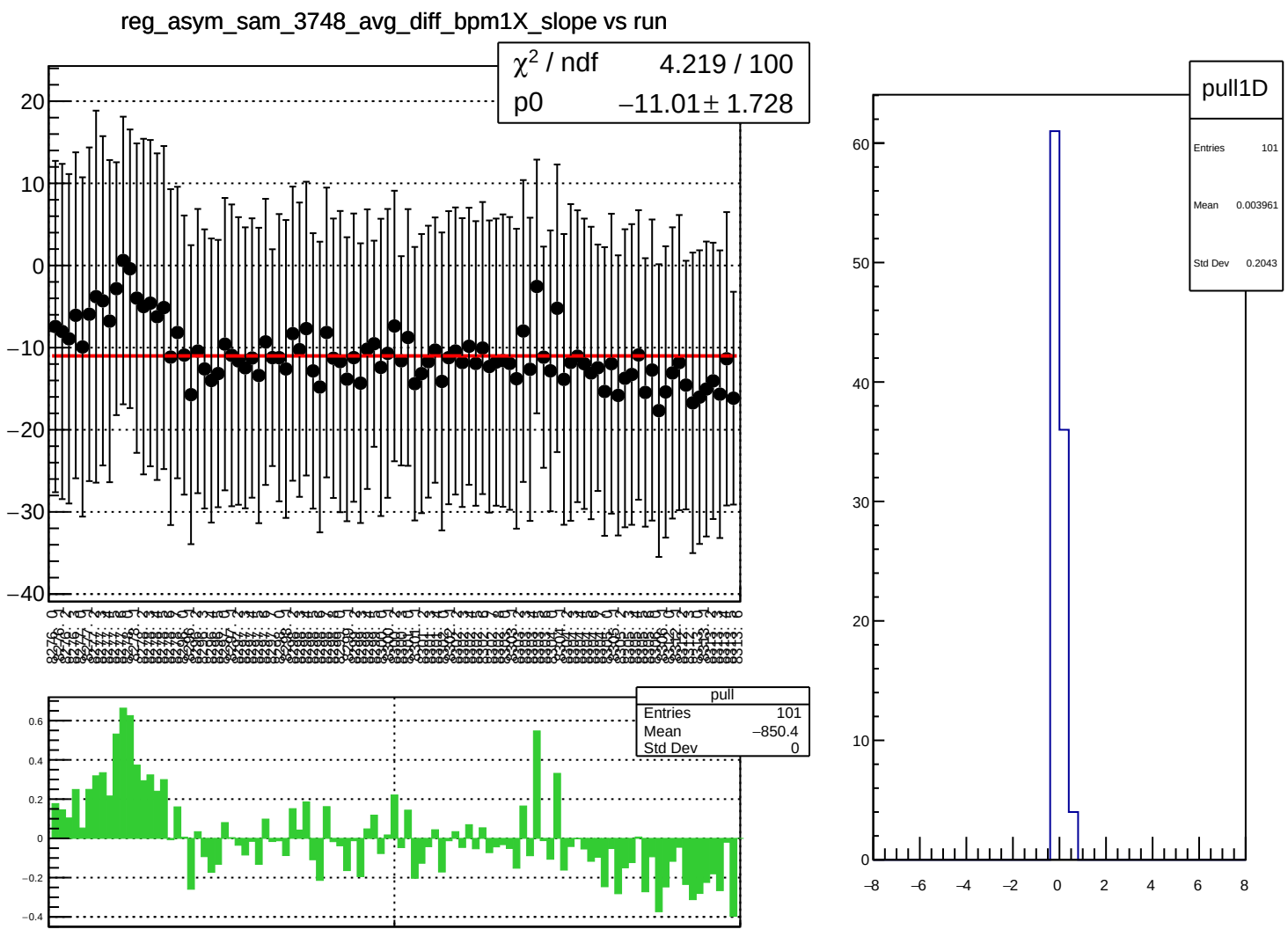

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.111 / 100
p0 39.89 ± 2.086
pull
Entries 101
Mean −111.2
Std Dev 0
pull1D
Entries 101
Mean 0.00823
Std Dev 0.1753

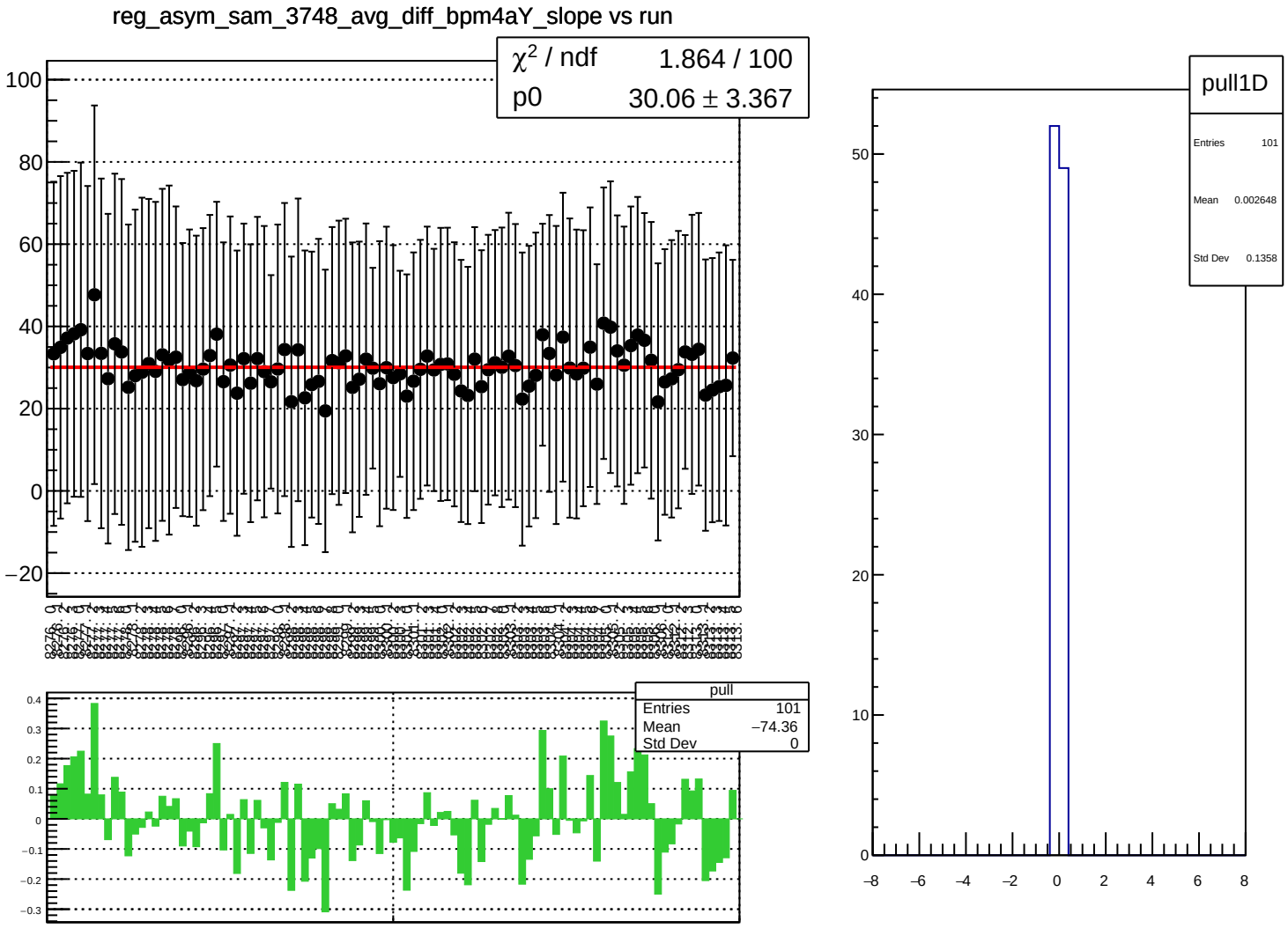

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.59 / 100
p0 −44.44 ± 1.193
pull
Entries 101
Mean −701.1
Std Dev 0
pull1D
Entries 101
Mean −0.007679
Std Dev 0.3237

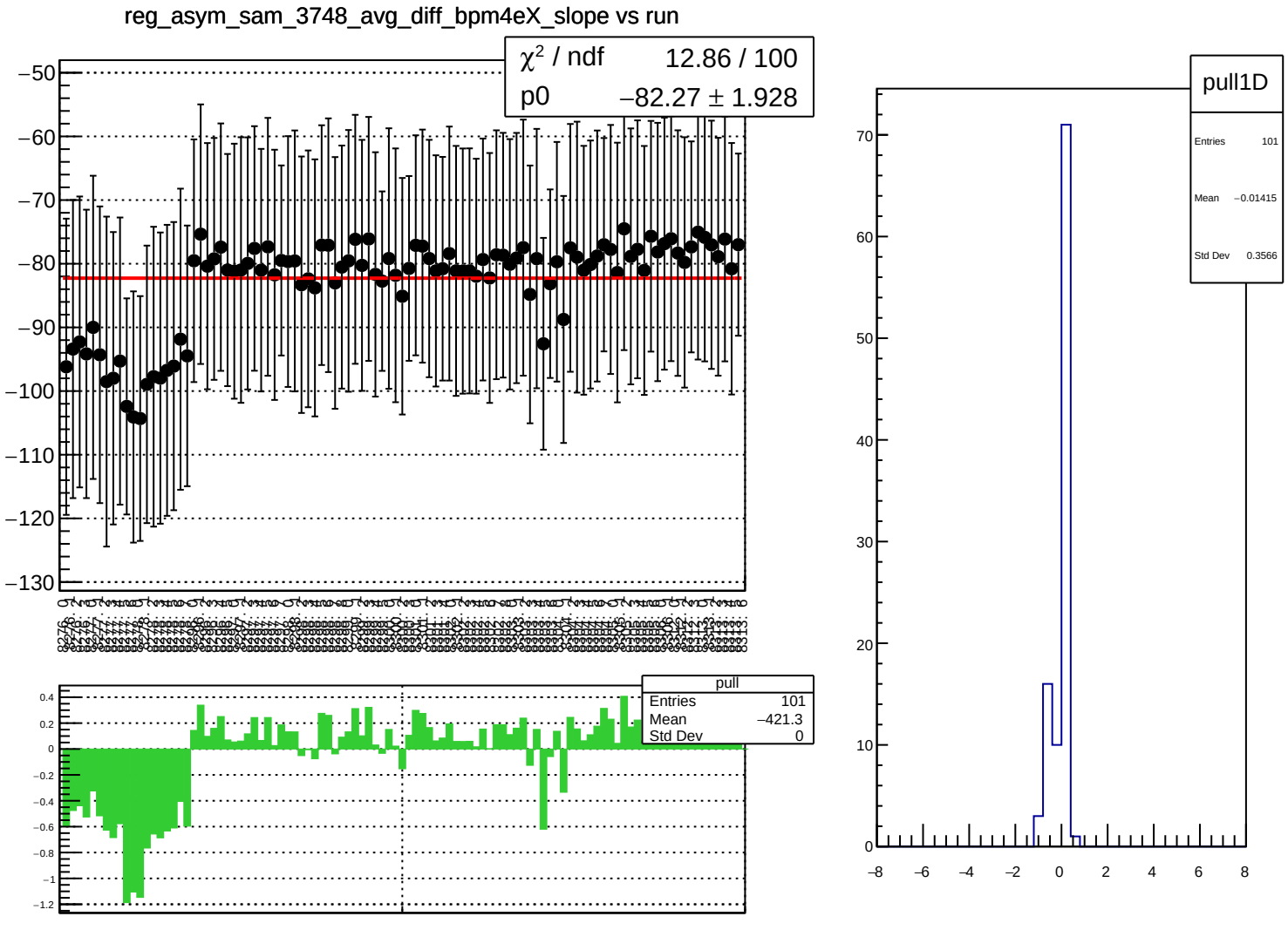

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.437 / 100
p0 43.65 ± 2.167
pull
Entries 101
Mean 603.3
Std Dev 0

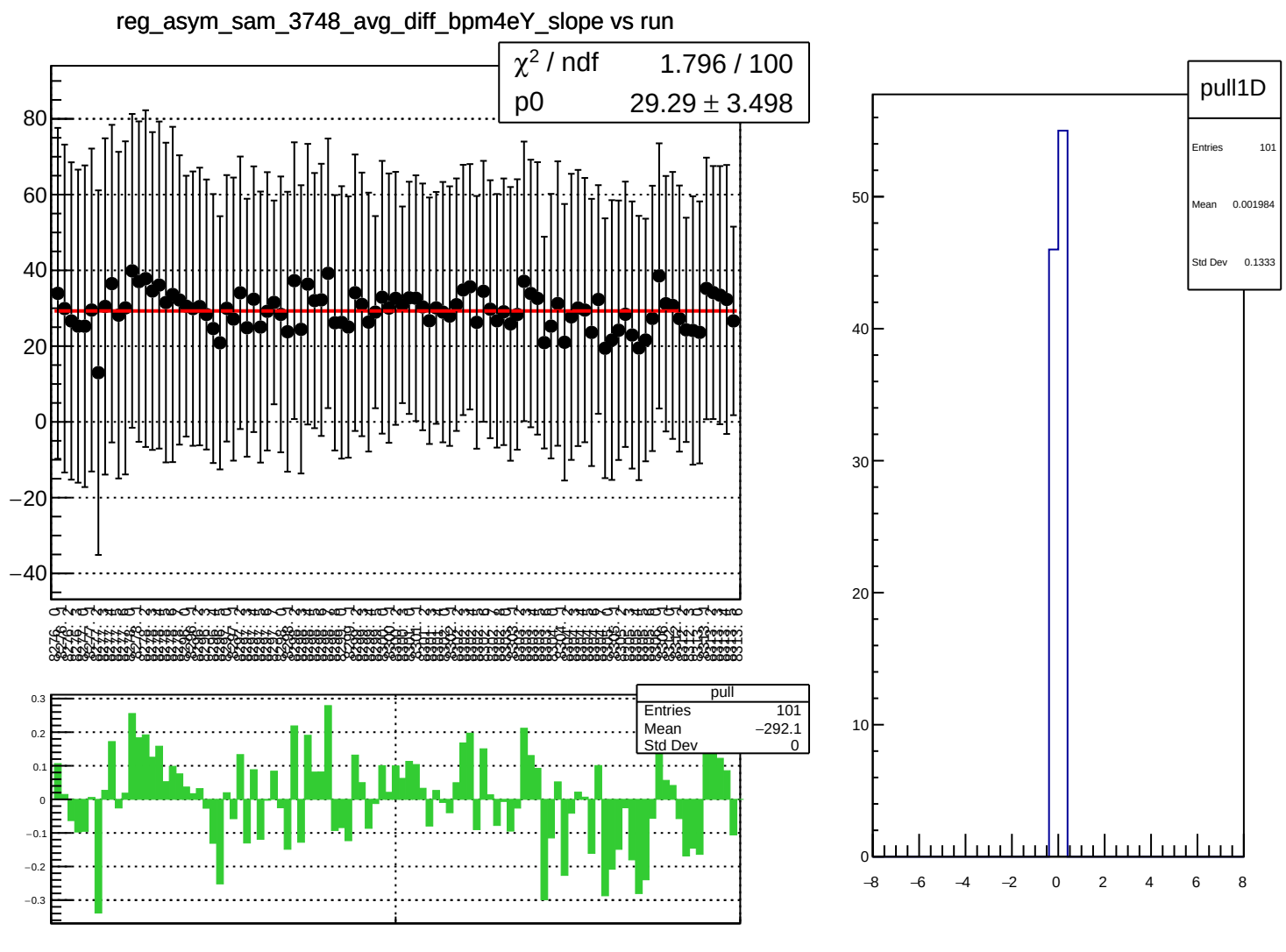

pull1D
Entries 101
Mean −0.0005954
Std Dev 0.1553

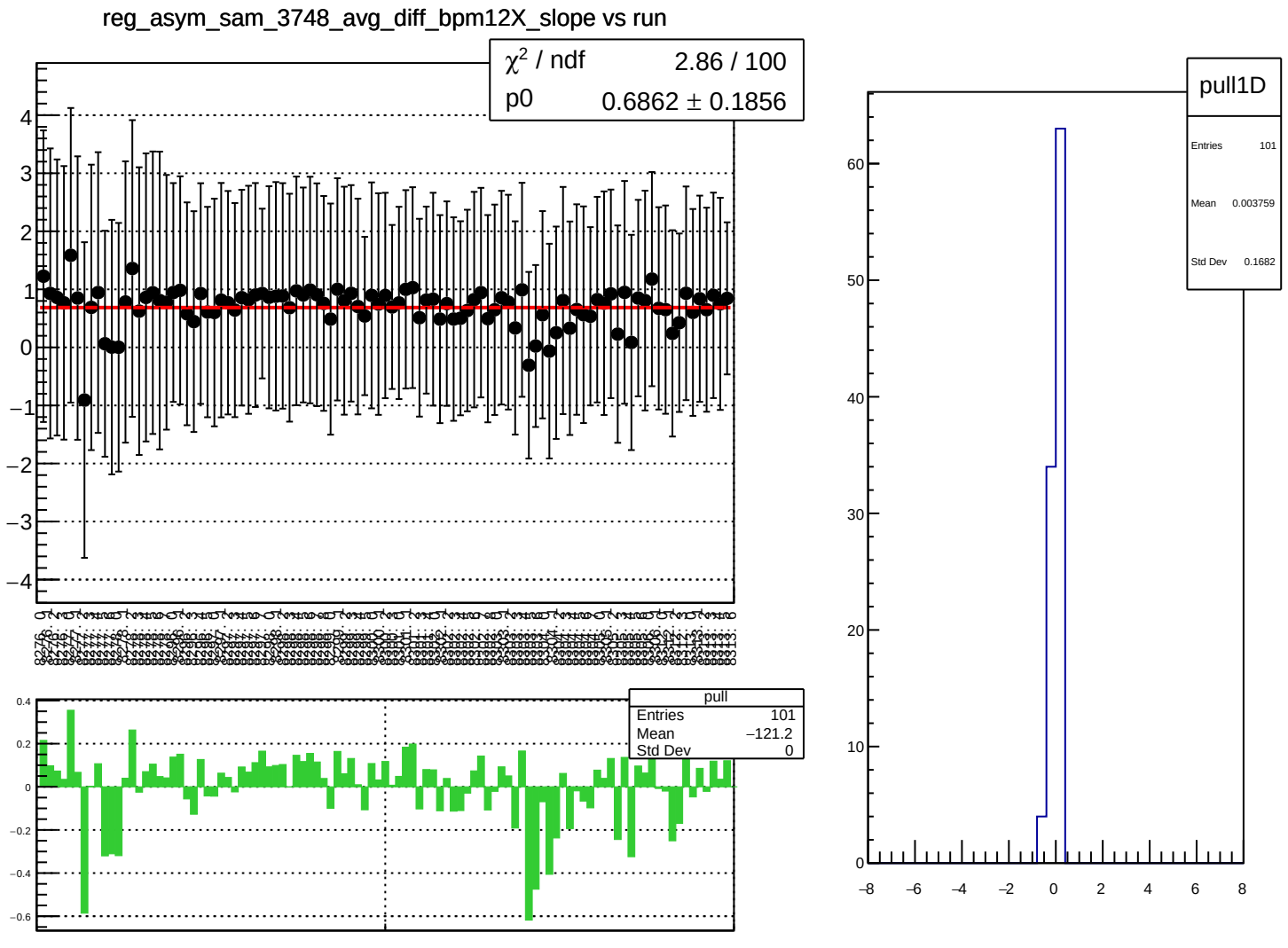

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 3.135 / 100
p0 −0.014 ± 0.115
pull
Entries 101
Mean 68.7
Std Dev 0
pull1D
Entries 101
Mean 0.001411
Std Dev 0.1762

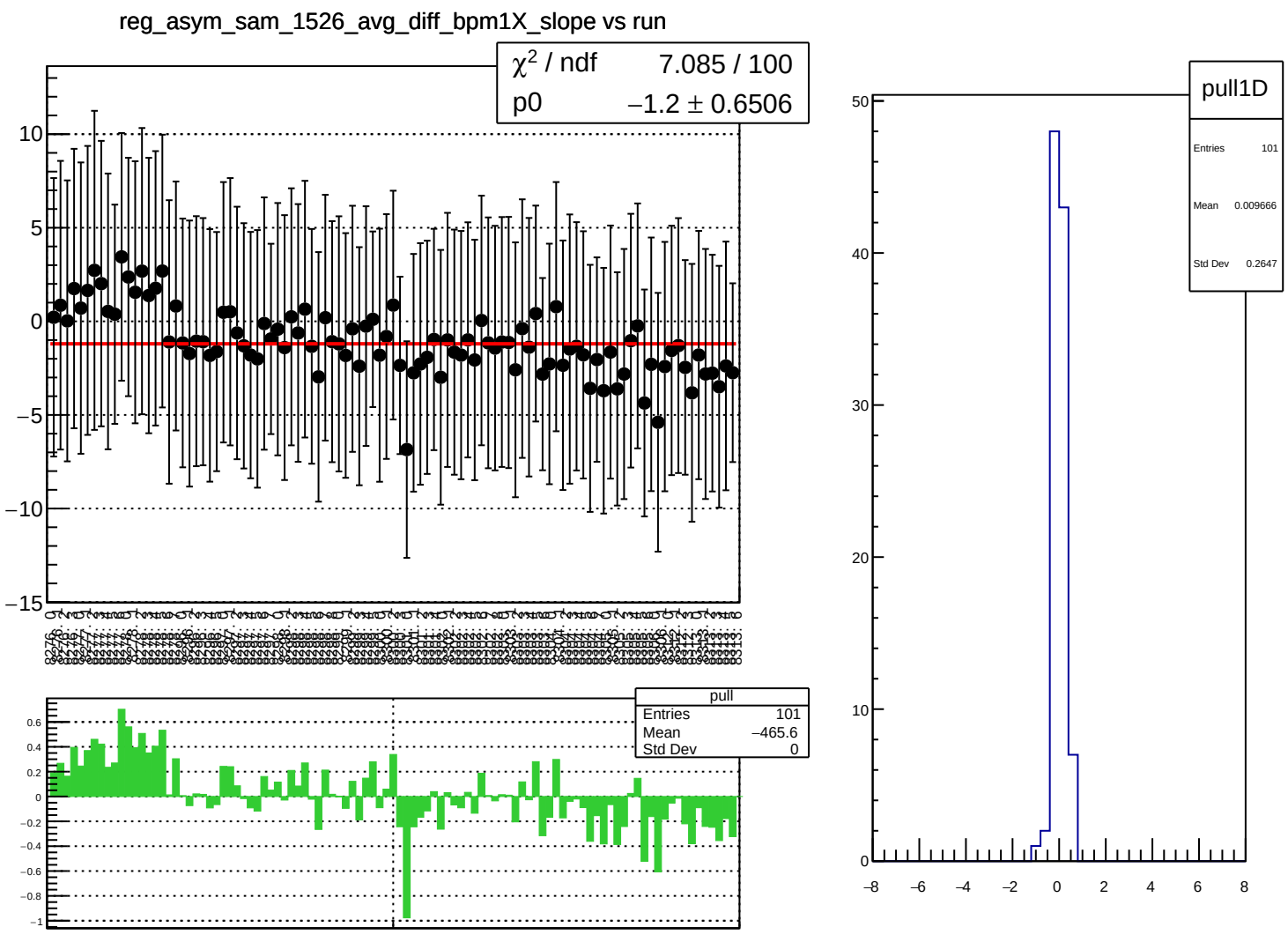

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 4.219 / 100
p0 −11.01± 1.728
pull
Entries 101
Mean −850.4
Std Dev 0
pull1D
Entries 101
Mean 0.003961
Std Dev 0.2043

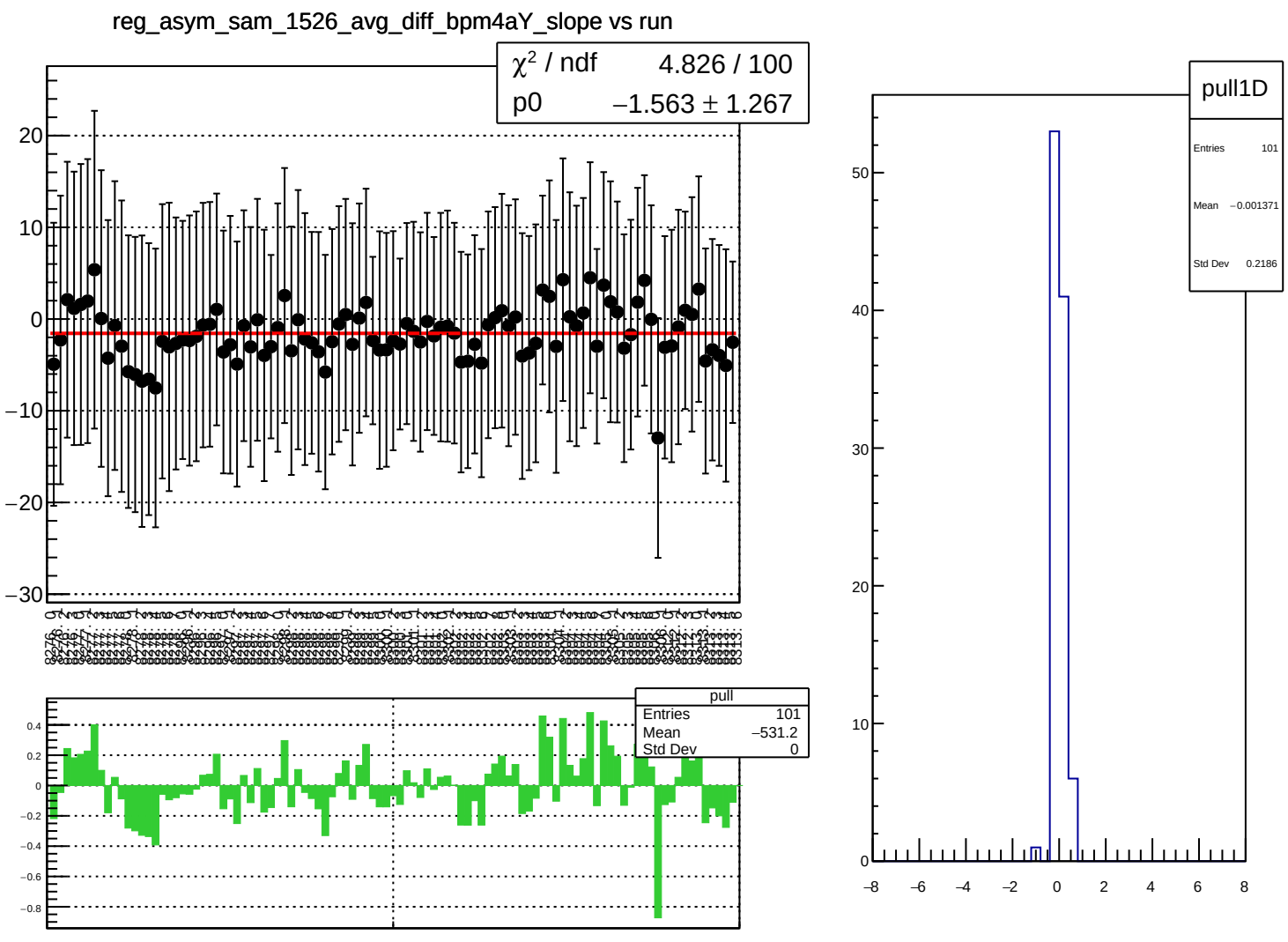

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.864 / 100
p0 30.06 ± 3.367
pull
Entries 101
Mean −74.36
Std Dev 0
pull1D
Entries 101
Mean 0.002648
Std Dev 0.1358

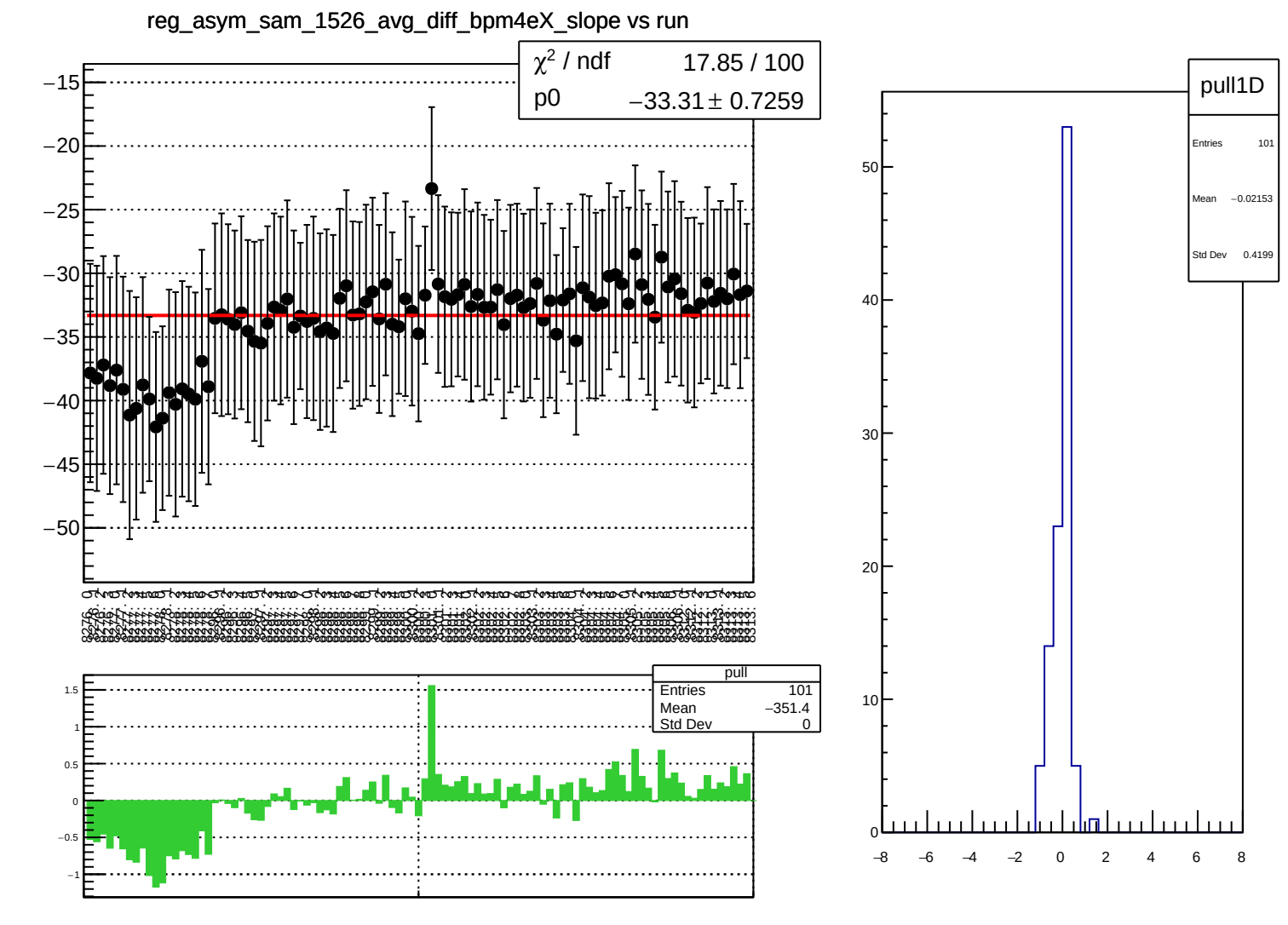

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.86 / 100
p0 −82.27 ± 1.928
pull
Entries 101
Mean −421.3
Std Dev 0
pull1D
Entries 101
Mean −0.01415
Std Dev 0.3566

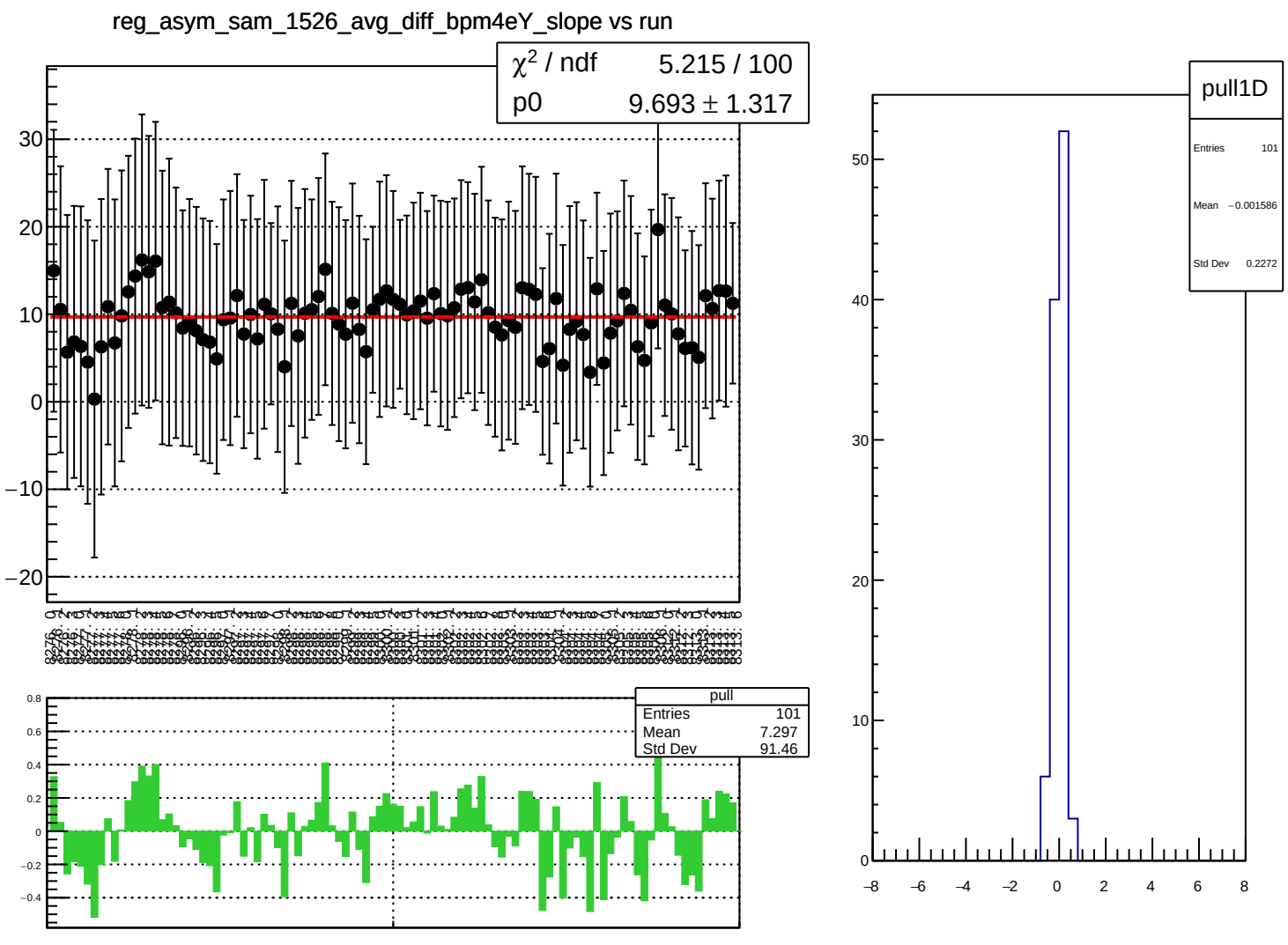

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.796 / 100
p0 29.29 ± 3.498
pull
Entries 101
Mean −292.1
Std Dev 0
pull1D
Entries 101
Mean 0.001984
Std Dev 0.1333

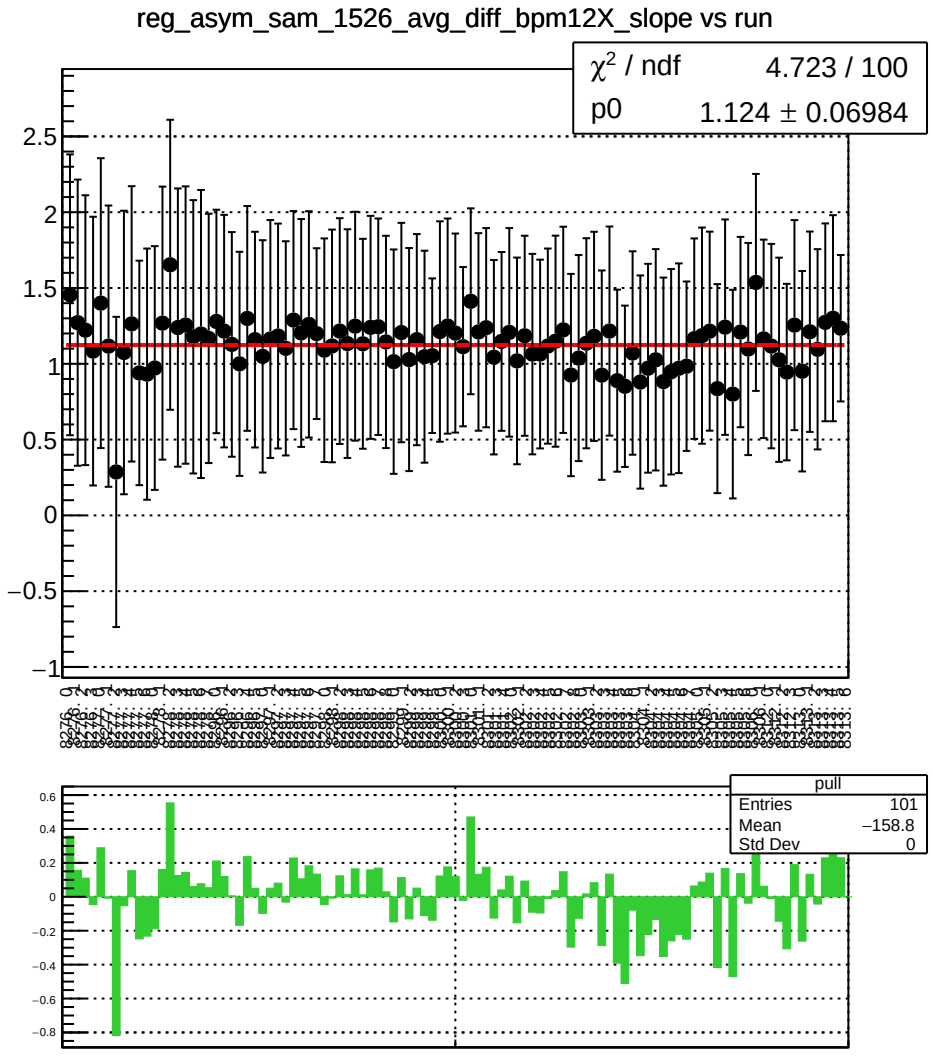

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 2.86 / 100
p0 0.6862 ± 0.1856
pull
Entries 101
Mean −121.2
Std Dev 0
pull1D
Entries 101
Mean 0.003759
Std Dev 0.1682

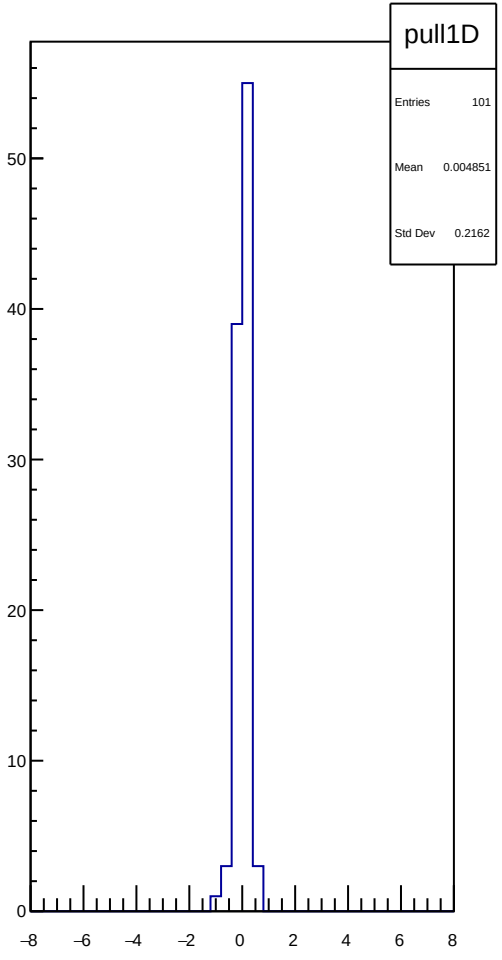

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 7.085 / 100
p0 −1.2 ± 0.6506
pull
Entries 101
Mean −465.6
Std Dev 0
pull1D
Entries 101
Mean 0.009666
Std Dev 0.2647

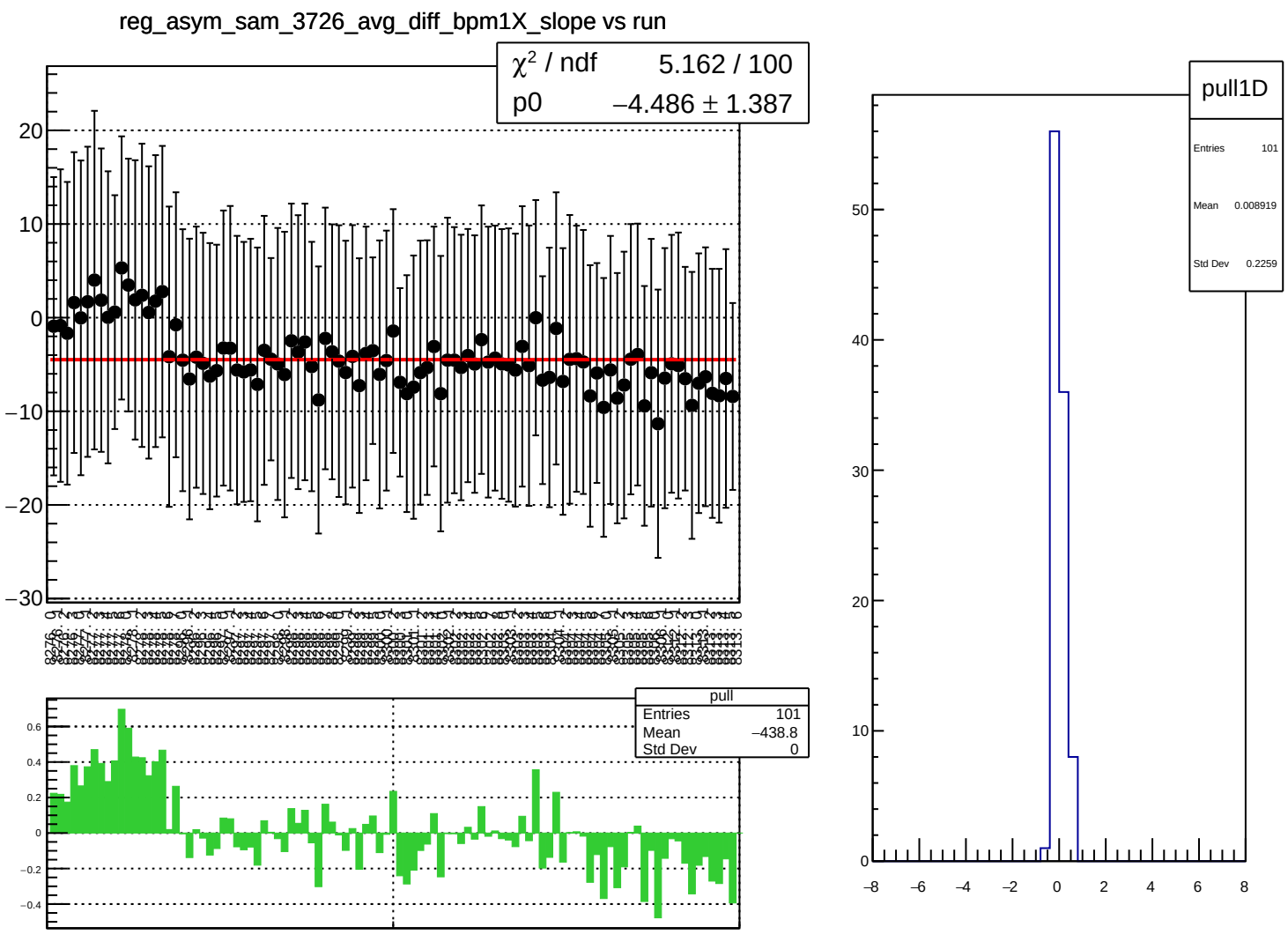

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.826 / 100
p0 −1.563 ± 1.267
pull
Entries 101
Mean −531.2
Std Dev 0
pull1D
Entries 101
Mean −0.001371
Std Dev 0.2186

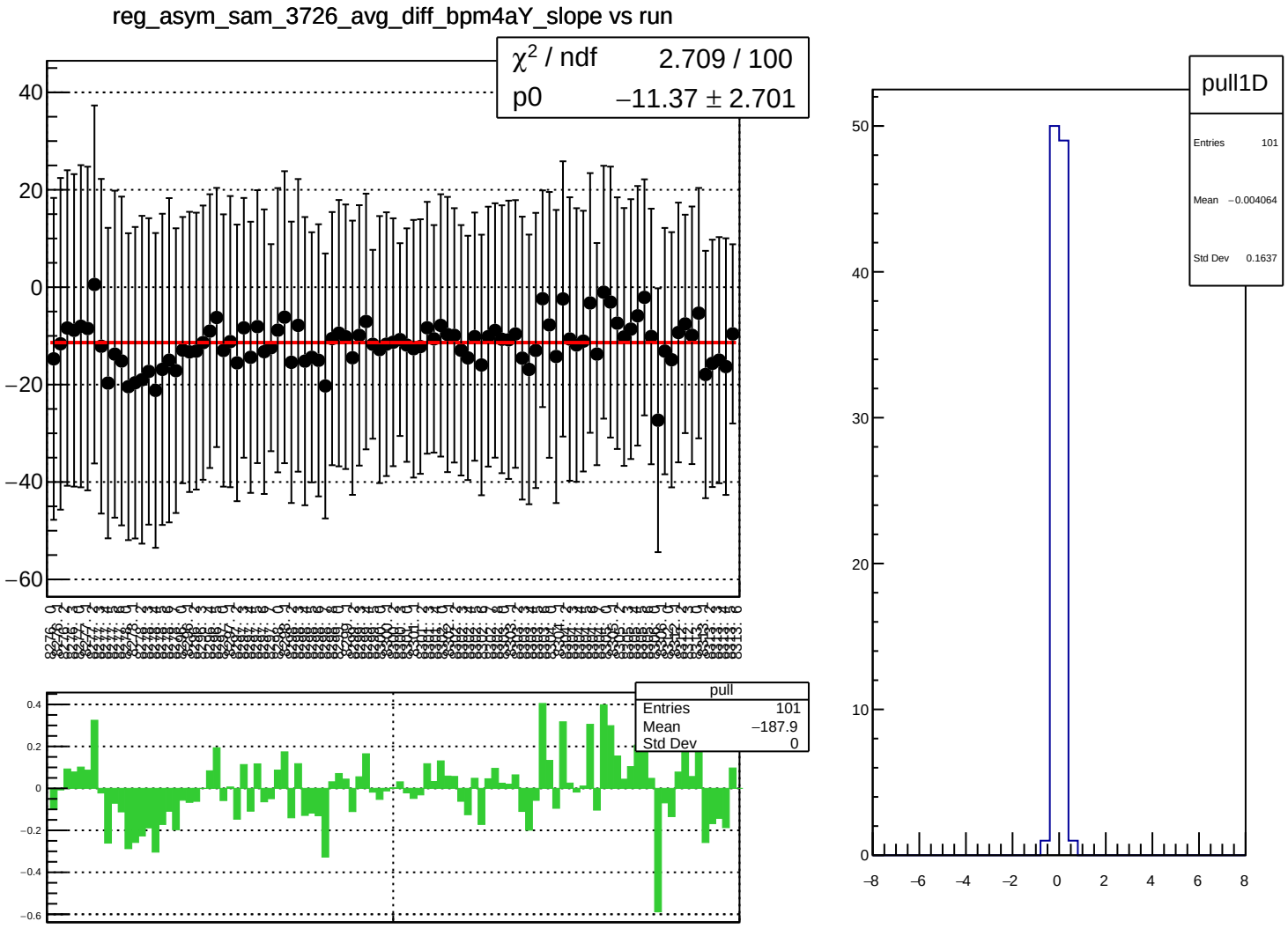

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 17.85 / 100
p0 −33.31 ± 0.7259
pull
Entries 101
Mean −351.4
Std Dev 0
pull1D
Entries 101
Mean −0.02153
Std Dev 0.4199

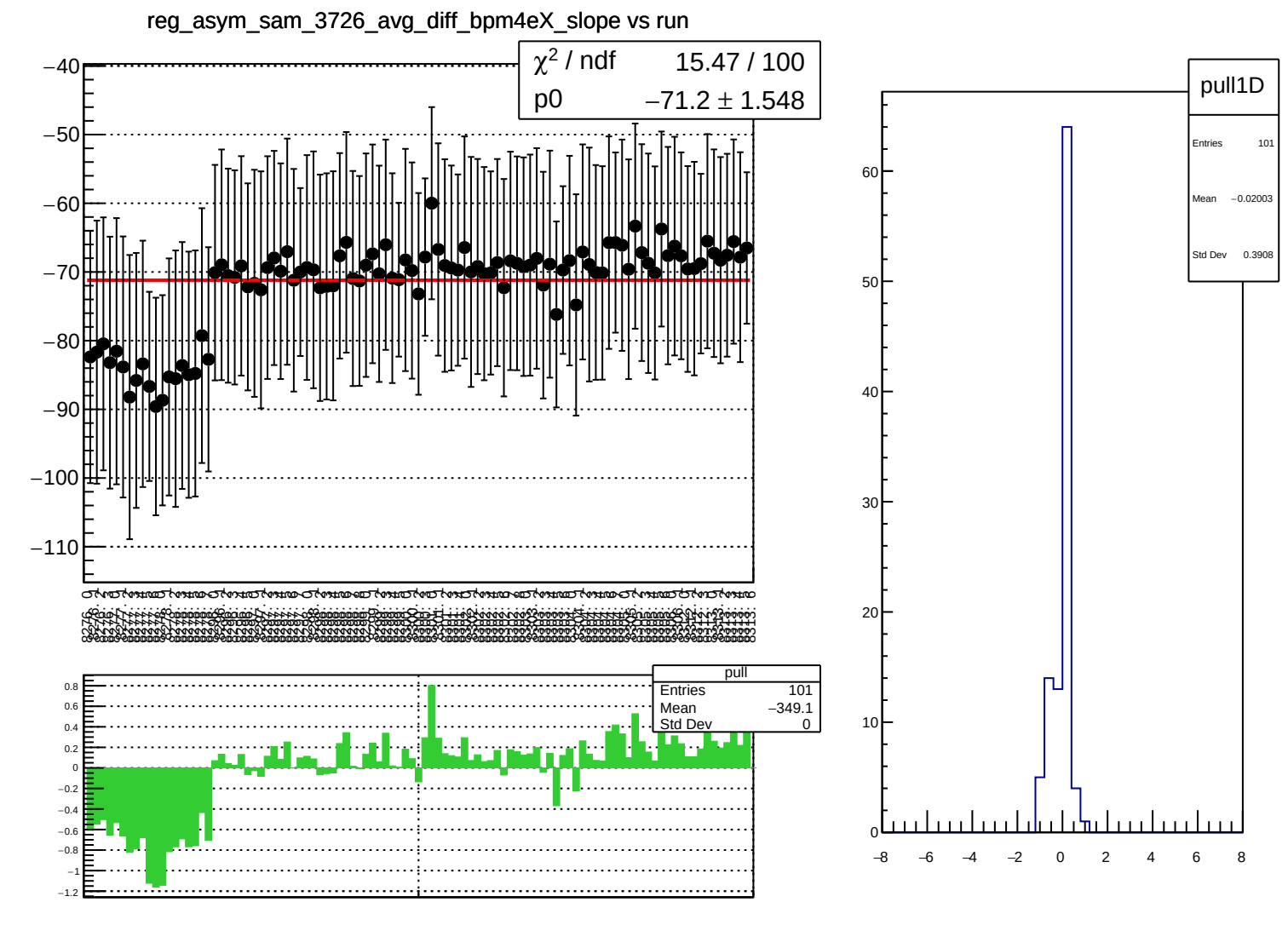

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.215 / 100
p0 9.693 ± 1.317
pull
Entries 101
Mean 7.297
Std Dev 91.46
pull1D
Entries 101
Mean −0.001586
Std Dev 0.2272

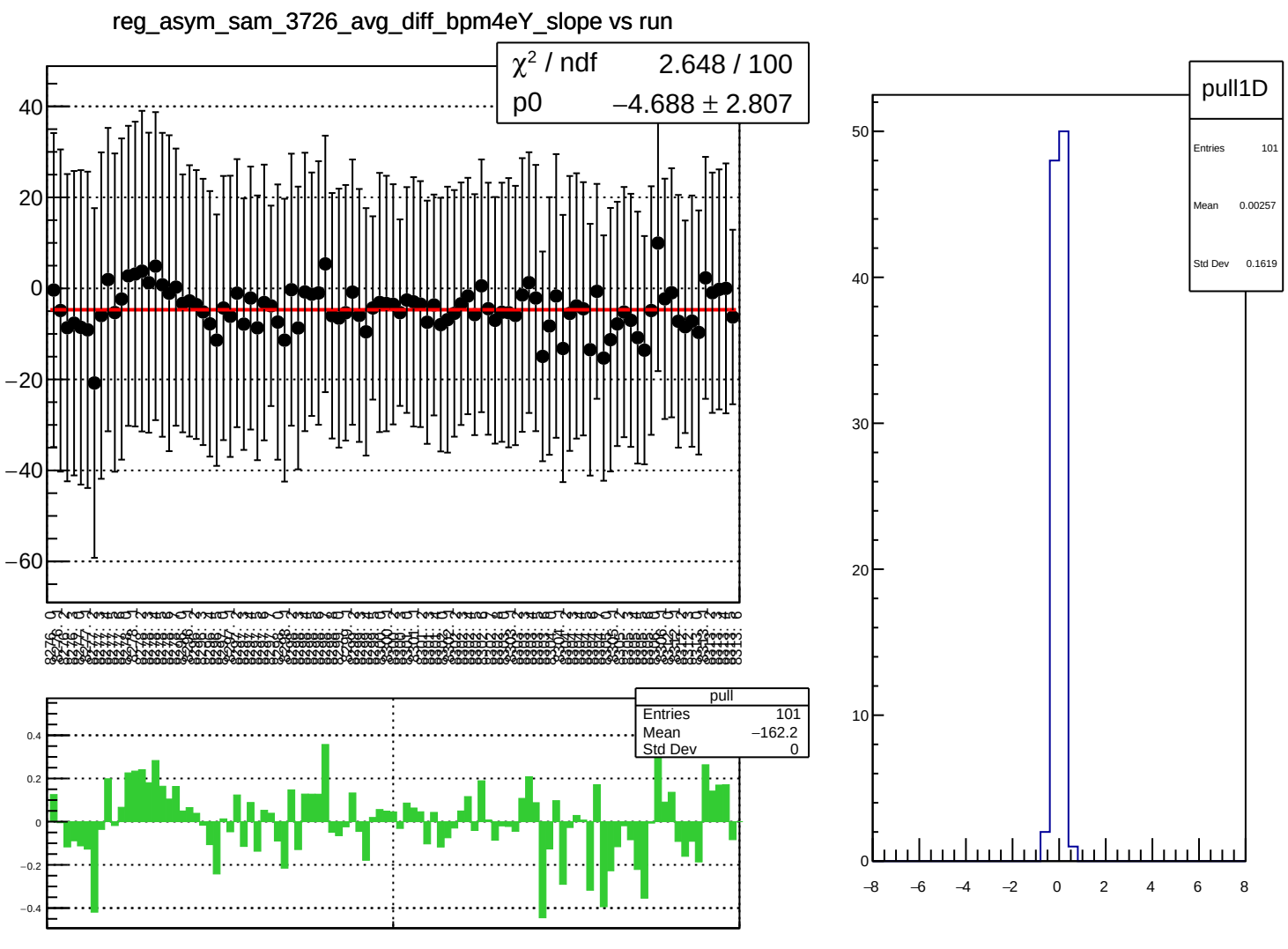

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 4.723 / 100
p0 1.124 ± 0.06984
pull
Entries 101
Mean −158.8
Std Dev 0

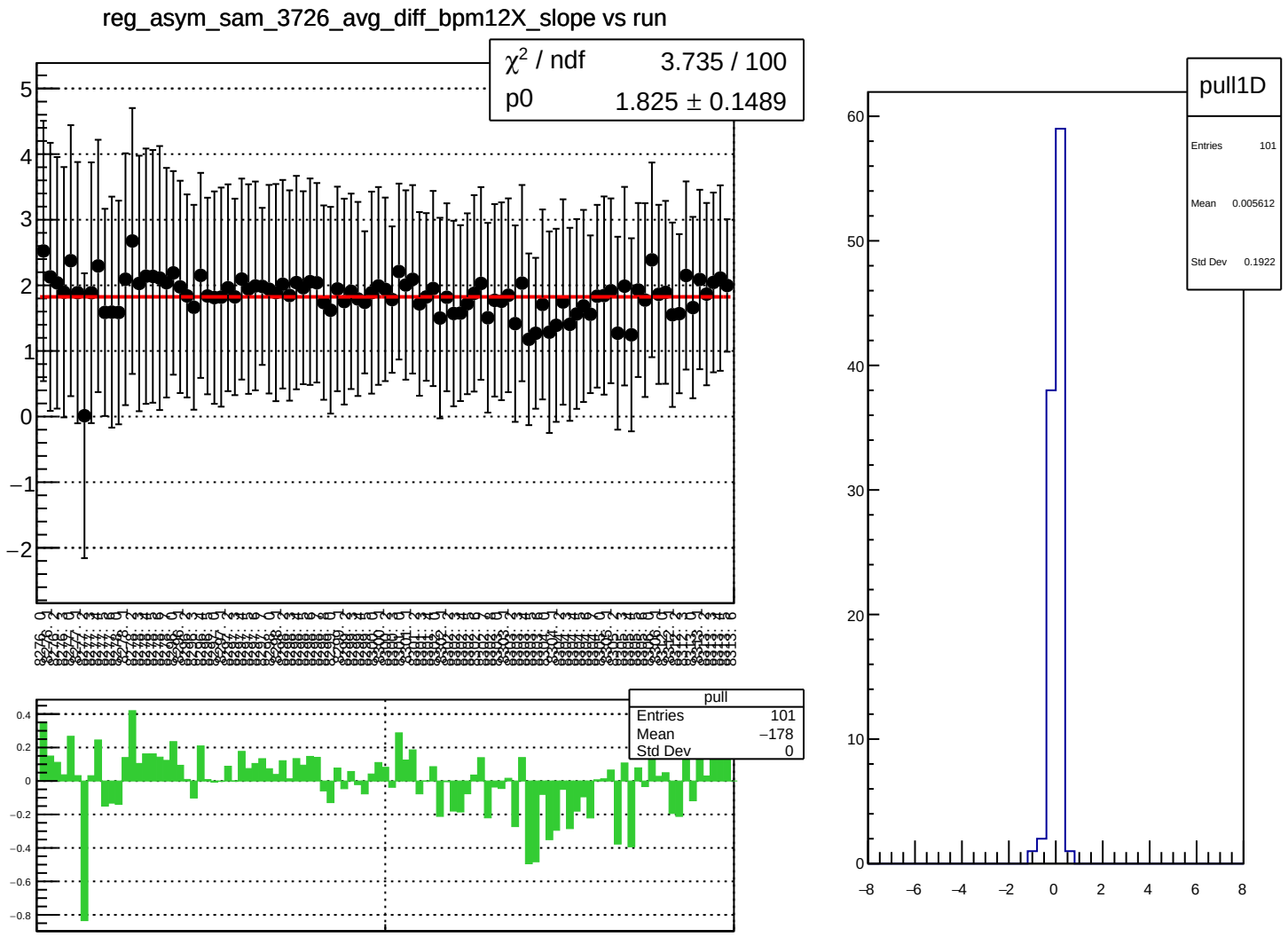

pull1D
Entries 101
Mean 0.004851
Std Dev 0.2162

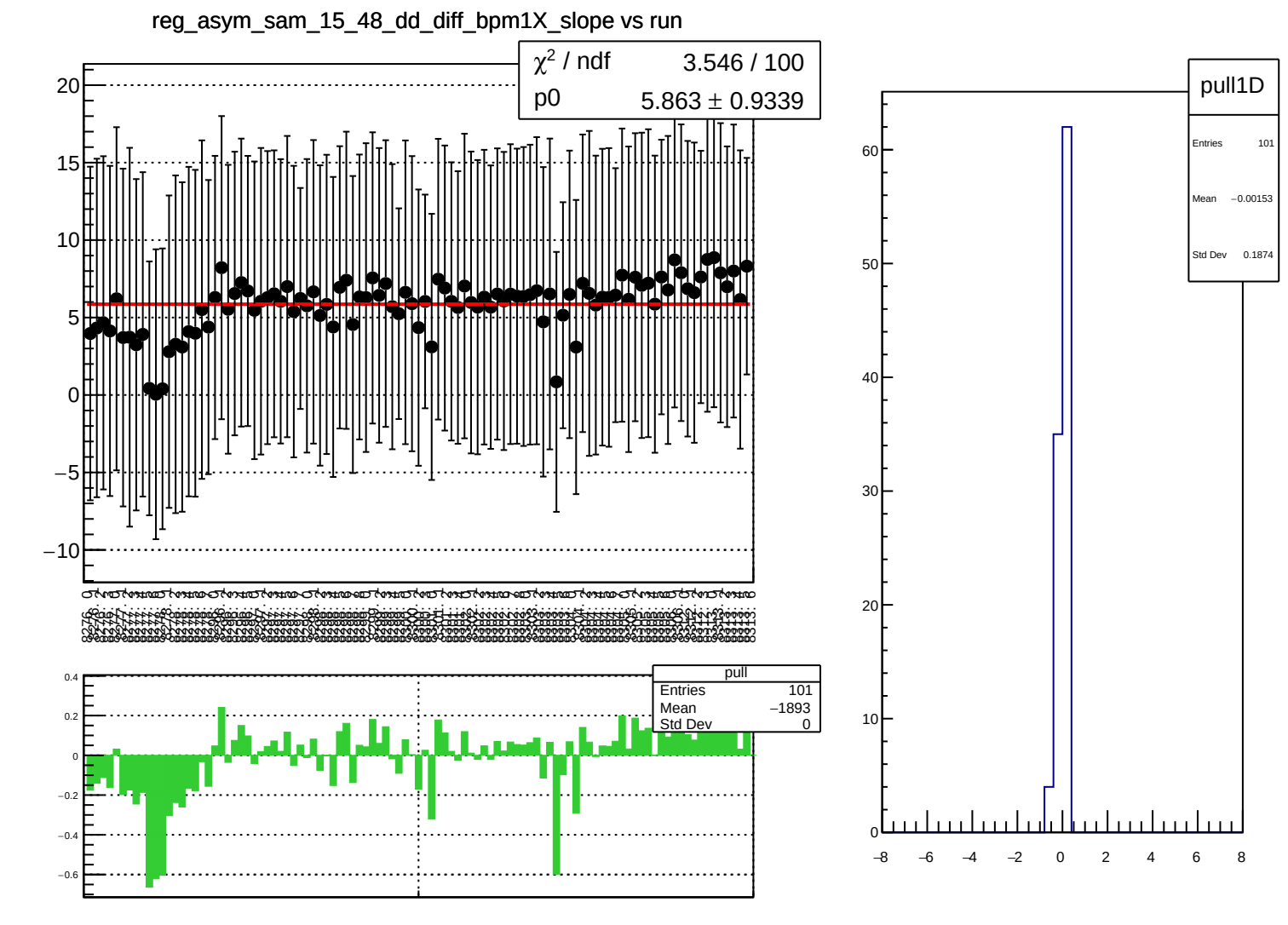

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 5.162 / 100
p0 −4.486 ± 1.387
pull
Entries 101
Mean −438.8
Std Dev 0
pull1D
Entries 101
Mean 0.008919
Std Dev 0.2259

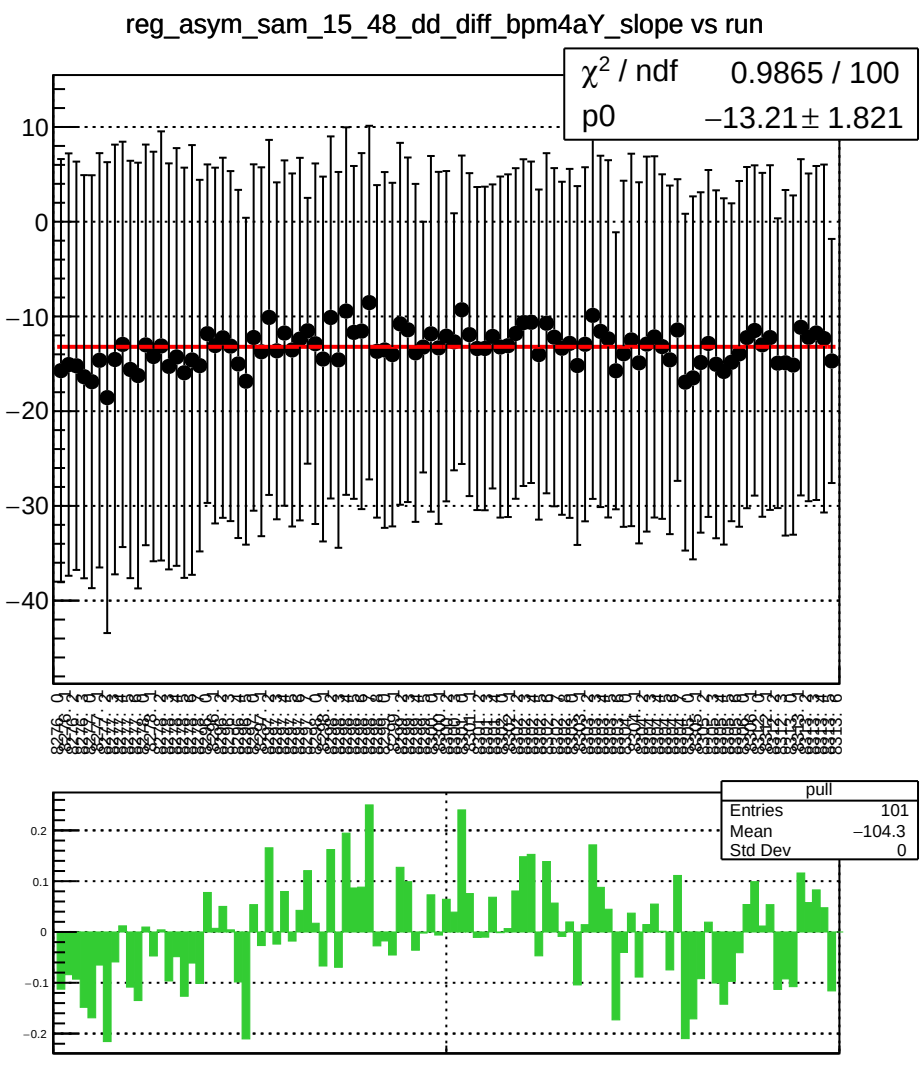

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.709 / 100
p0 −11.37 ± 2.701
pull
Entries 101
Mean −187.9
Std Dev 0
pull1D
Entries 101
Mean −0.004064
Std Dev 0.1637

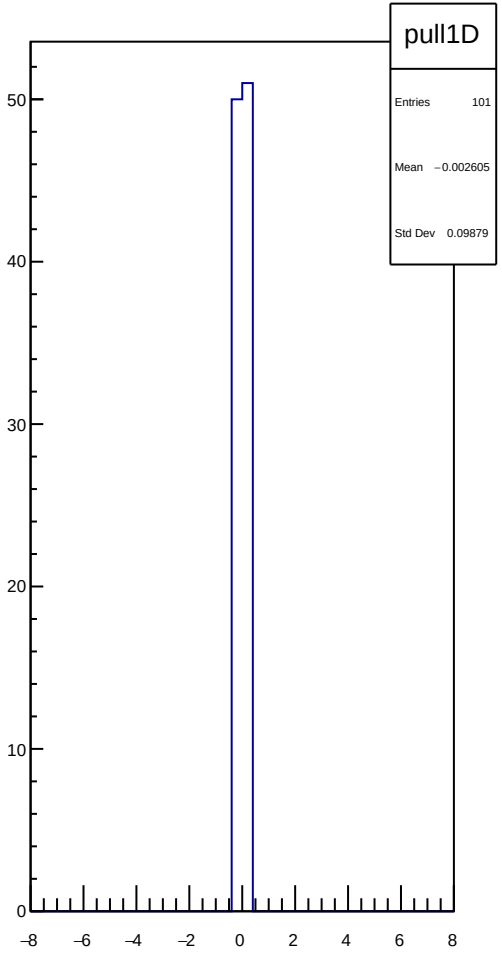

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 15.47 / 100
p0 −71.2 ± 1.548
pull
Entries 101
Mean −349.1
Std Dev 0
pull1D
Entries 101
Mean −0.02003
Std Dev 0.3908

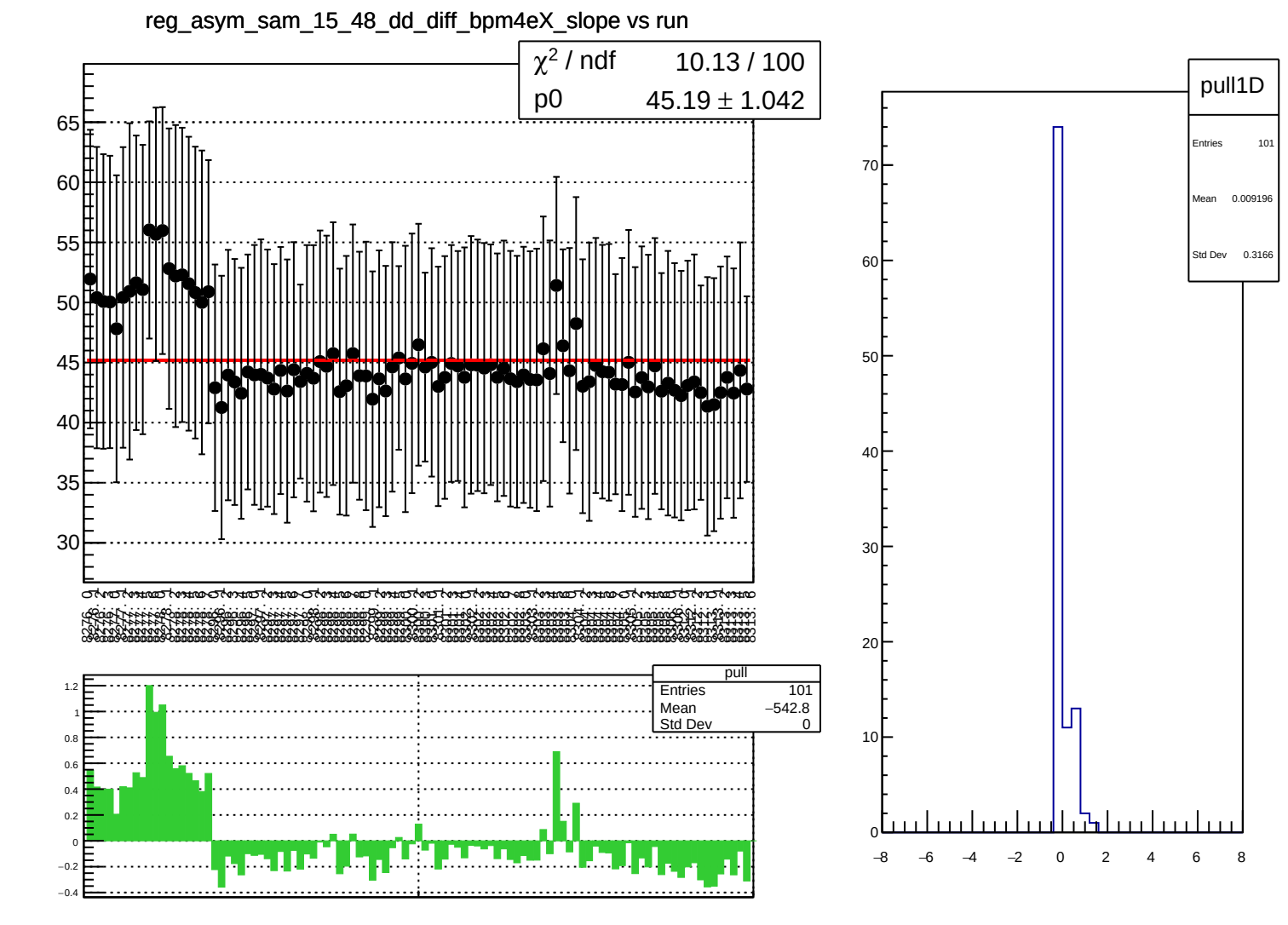

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.648 / 100
p0 −4.688 ± 2.807
40
20
0
−20
−40
−60
pull
Entries 101
Mean −162.2
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 101
Mean 0.00257
Std Dev 0.1619
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

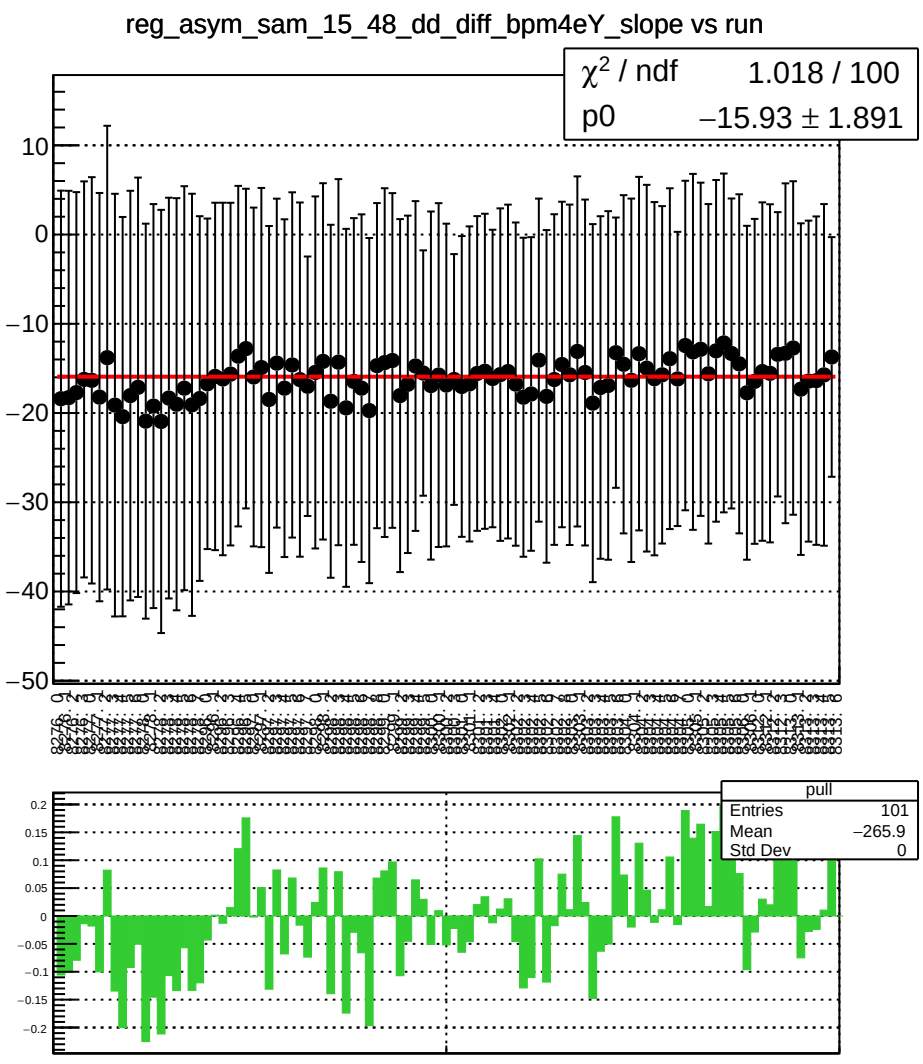

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 3.735 / 100
p0 1.825 ± 0.1489
pull
Entries 101
Mean −178
Std Dev 0
pull1D
Entries 101
Mean 0.005612
Std Dev 0.1922

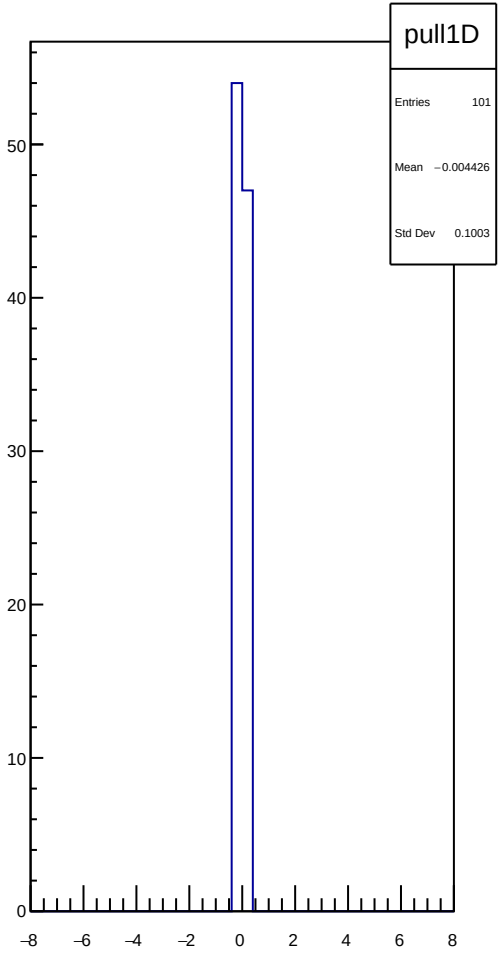

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 3.546 / 100
p0 5.863 ± 0.9339
pull
Entries 101
Mean −1893
Std Dev 0
pull1D
Entries 101
Mean −0.00153
Std Dev 0.1874

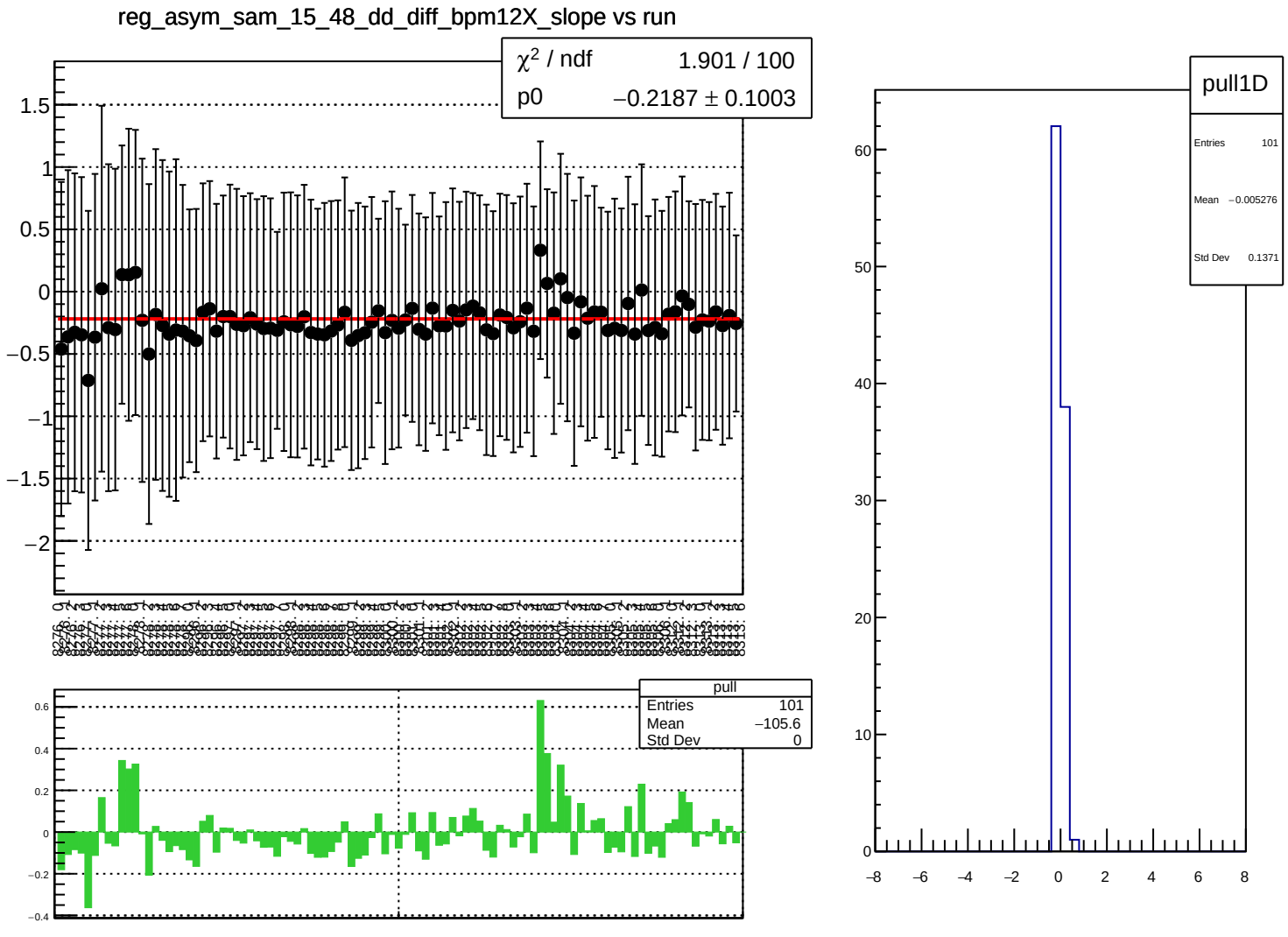

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.9865 / 100
p0 −13.21 ± 1.821
pull
Entries 101
Mean −104.3
Std Dev 0

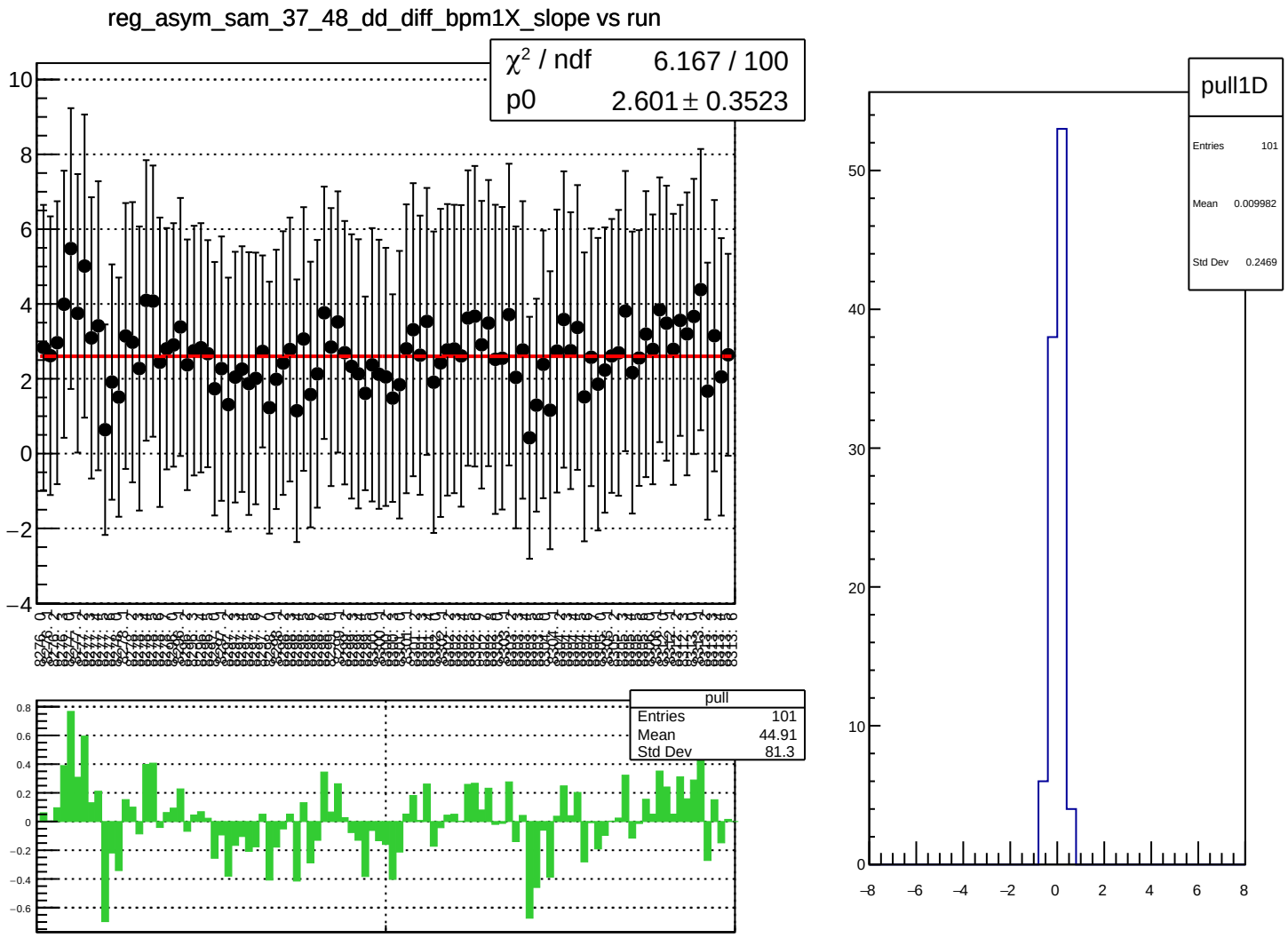

pull1D
Entries 101
Mean −0.002605
Std Dev 0.09879

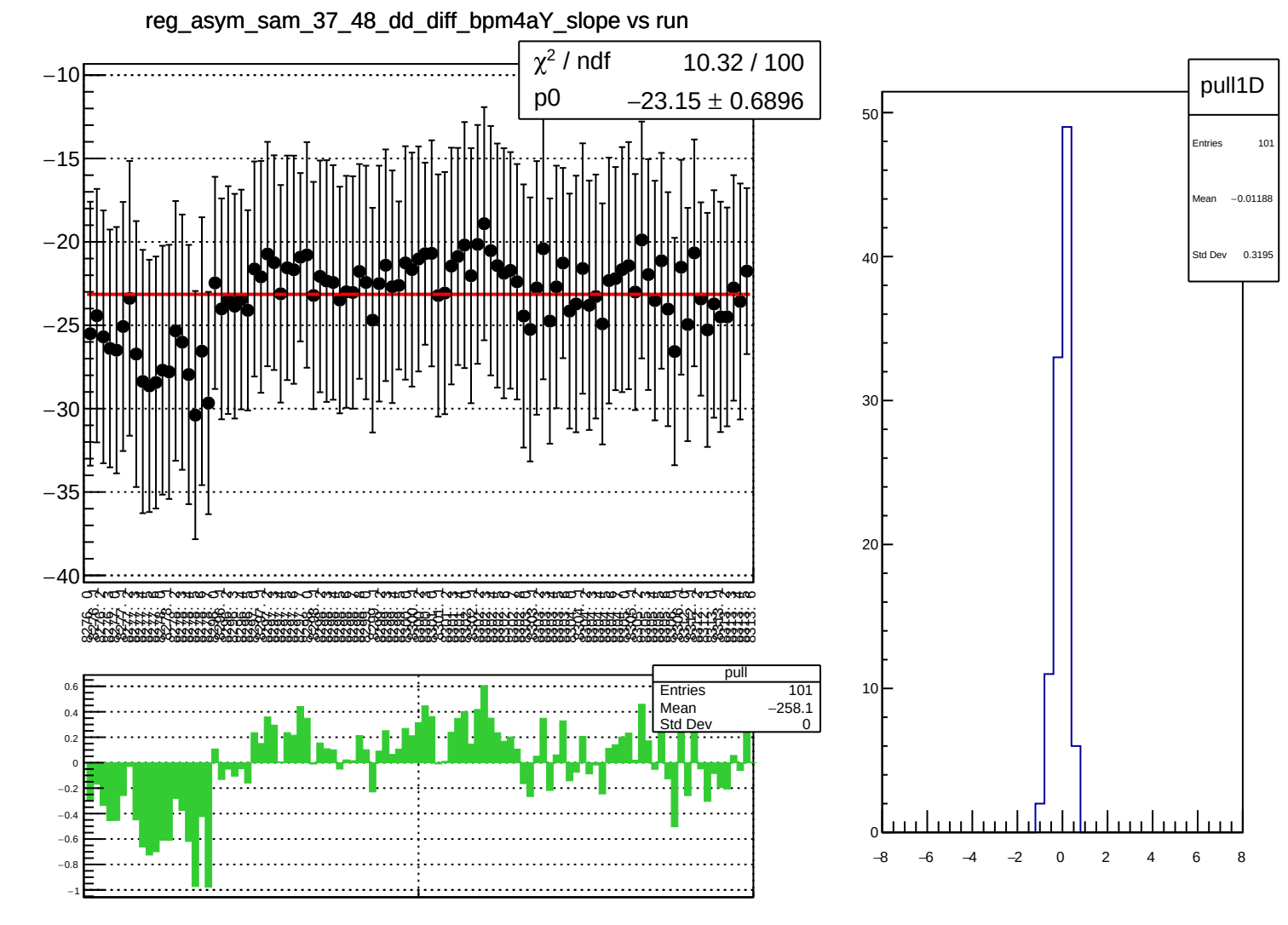

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.13 / 100
p0 45.19 ± 1.042
pull
Entries 101
Mean −542.8
Std Dev 0
pull1D
Entries 101
Mean 0.009196
Std Dev 0.3166

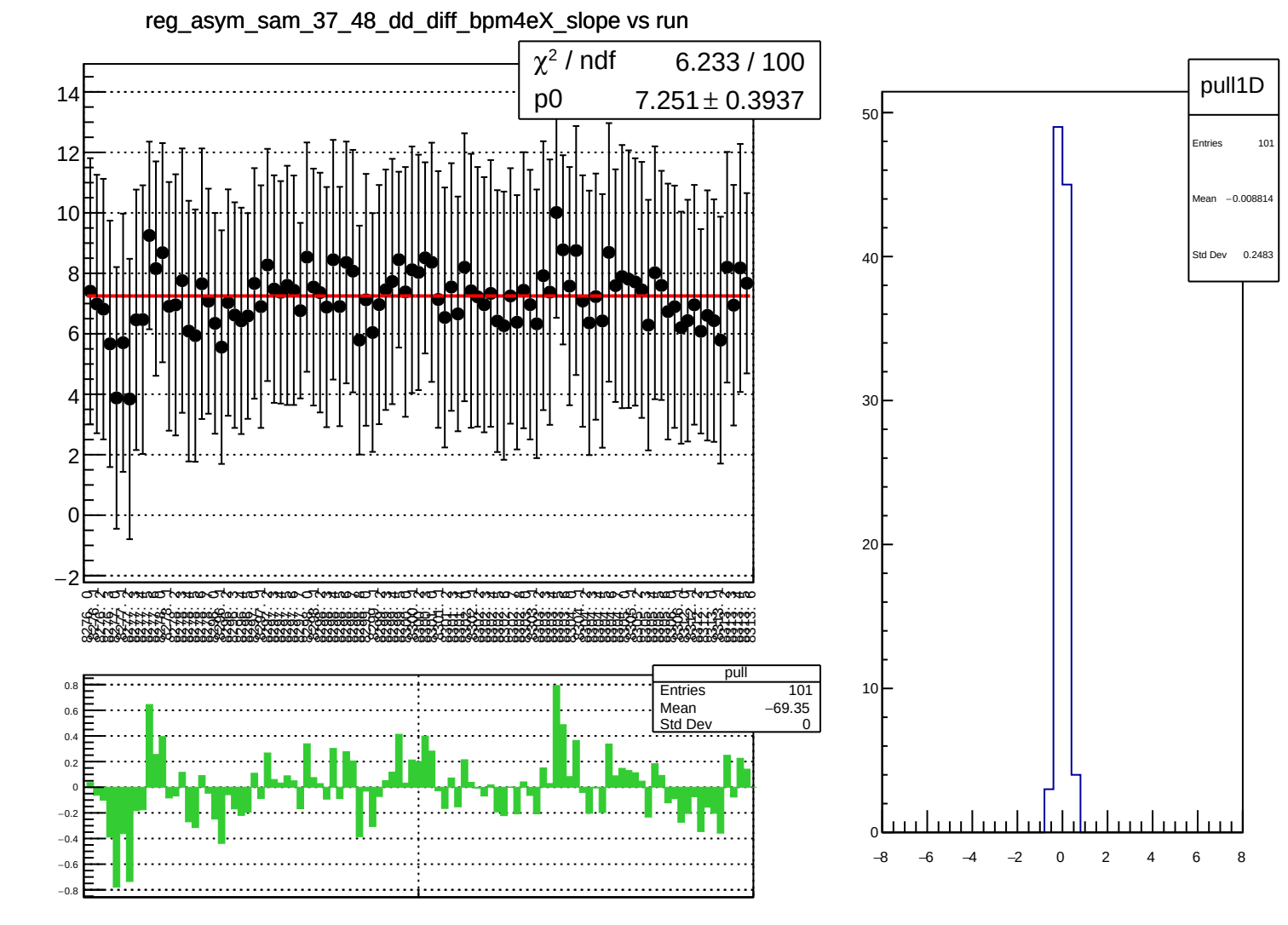

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.018 / 100
p0 −15.93 ± 1.891
pull
Entries 101
Mean −265.9
Std Dev 0

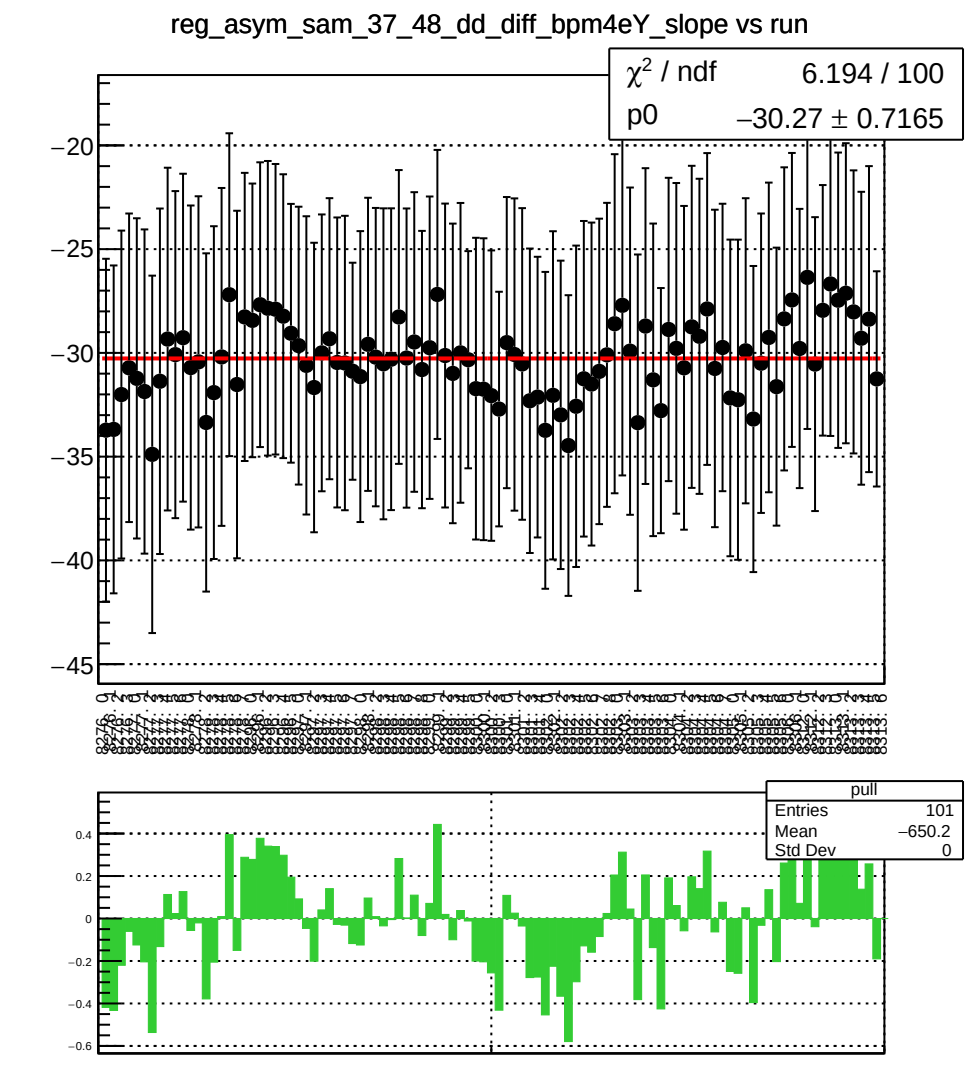

pull1D
Entries 101
Mean −0.004426
Std Dev 0.1003

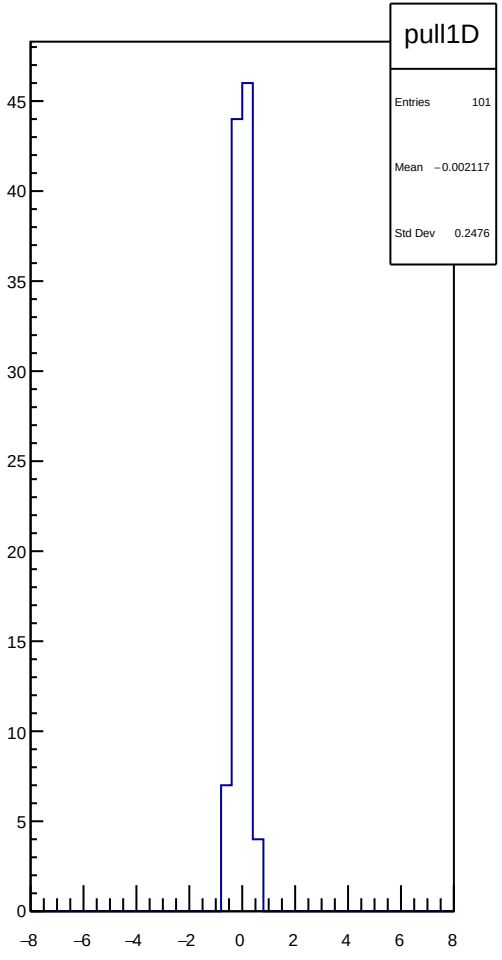

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 1.901 / 100
p0 −0.2187 ± 0.1003
pull
Entries 101
Mean −105.6
Std Dev 0
pull1D
Entries 101
Mean −0.005276
Std Dev 0.1371

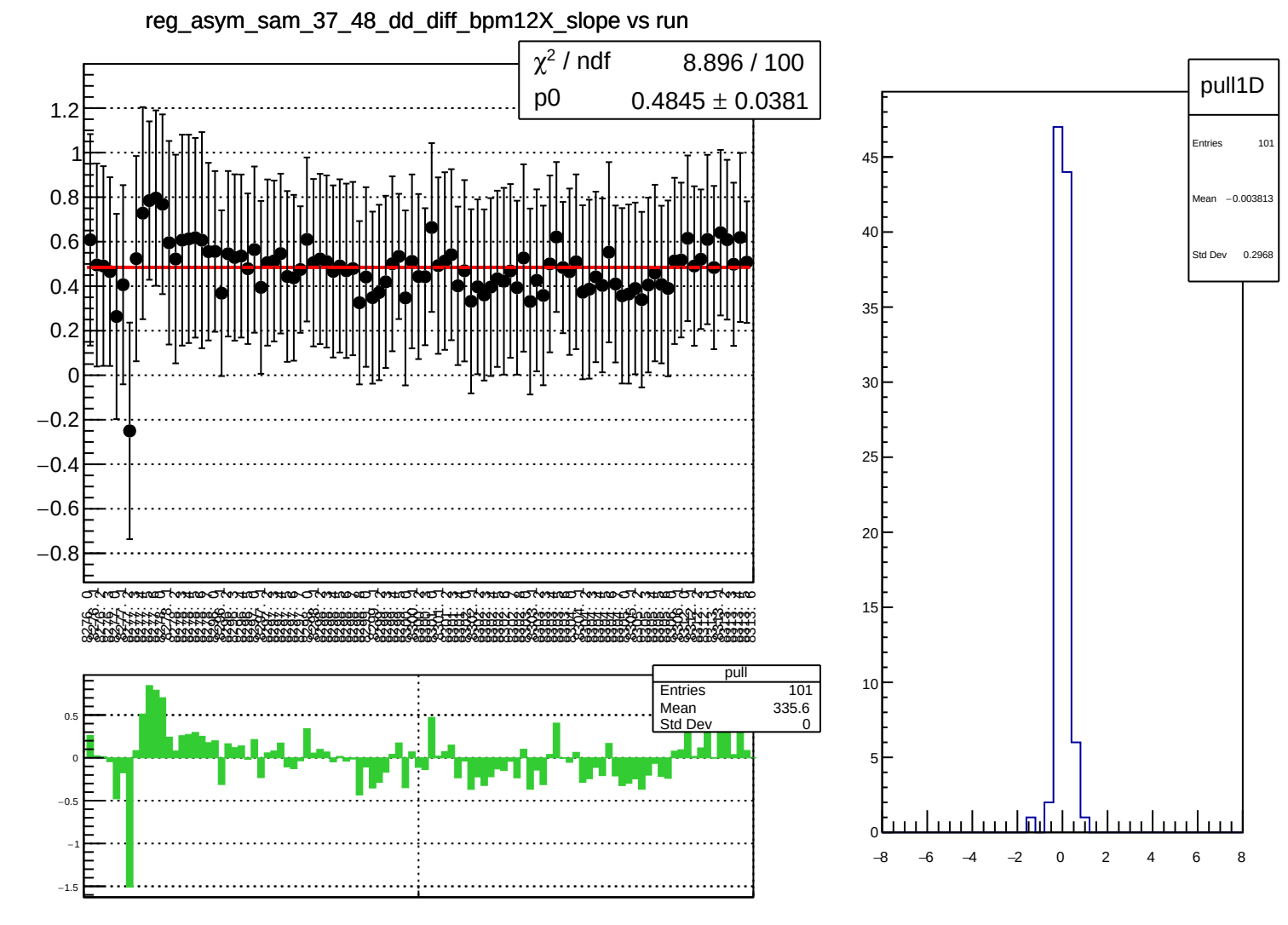

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 6.167 / 100
p0 2.601 ± 0.3523
pull
Entries 101
Mean 44.91
Std Dev 81.3
pull1D
Entries 101
Mean 0.009982
Std Dev 0.2469

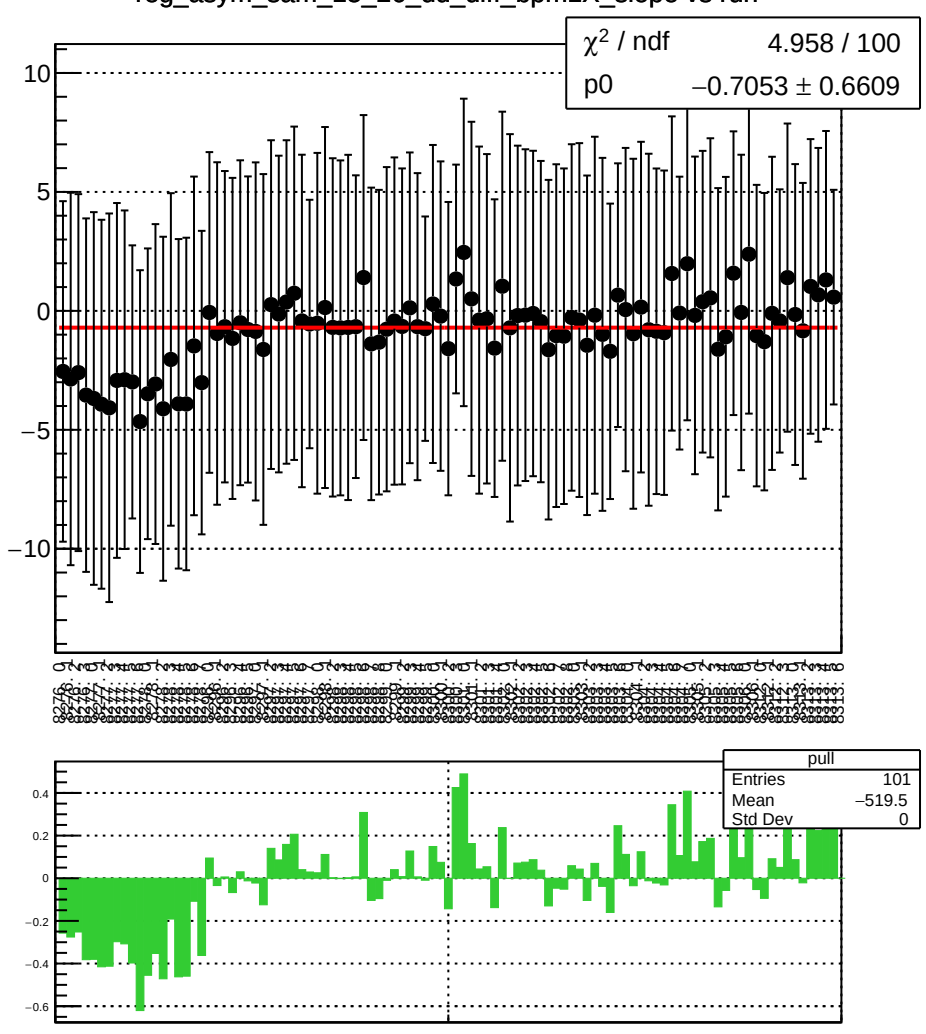

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.32 / 100
p0 −23.15 ± 0.6896
pull
Entries 101
Mean −258.1
Std Dev 0
pull1D
Entries 101
Mean −0.01188
Std Dev 0.3195

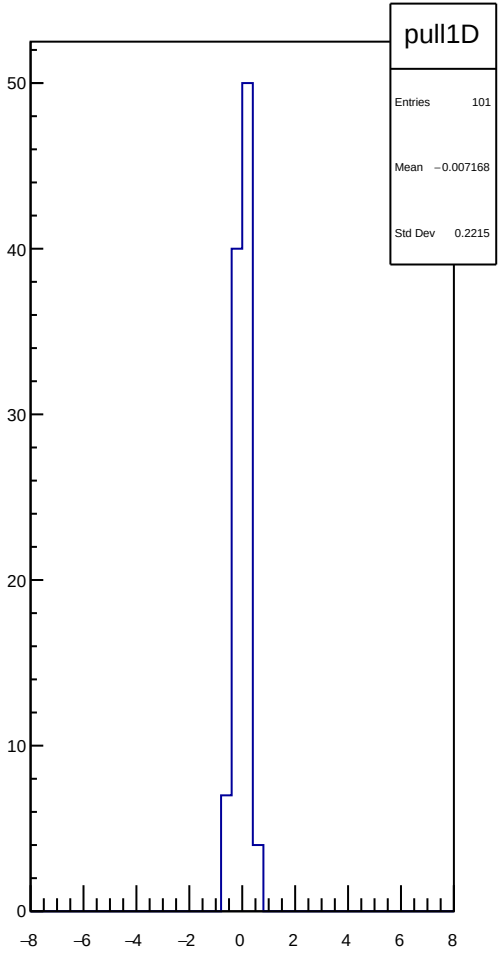

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.233 / 100
p0 7.251 ± 0.3937
pull
Entries 101
Mean −69.35
Std Dev 0
pull1D
Entries 101
Mean −0.008814
Std Dev 0.2483

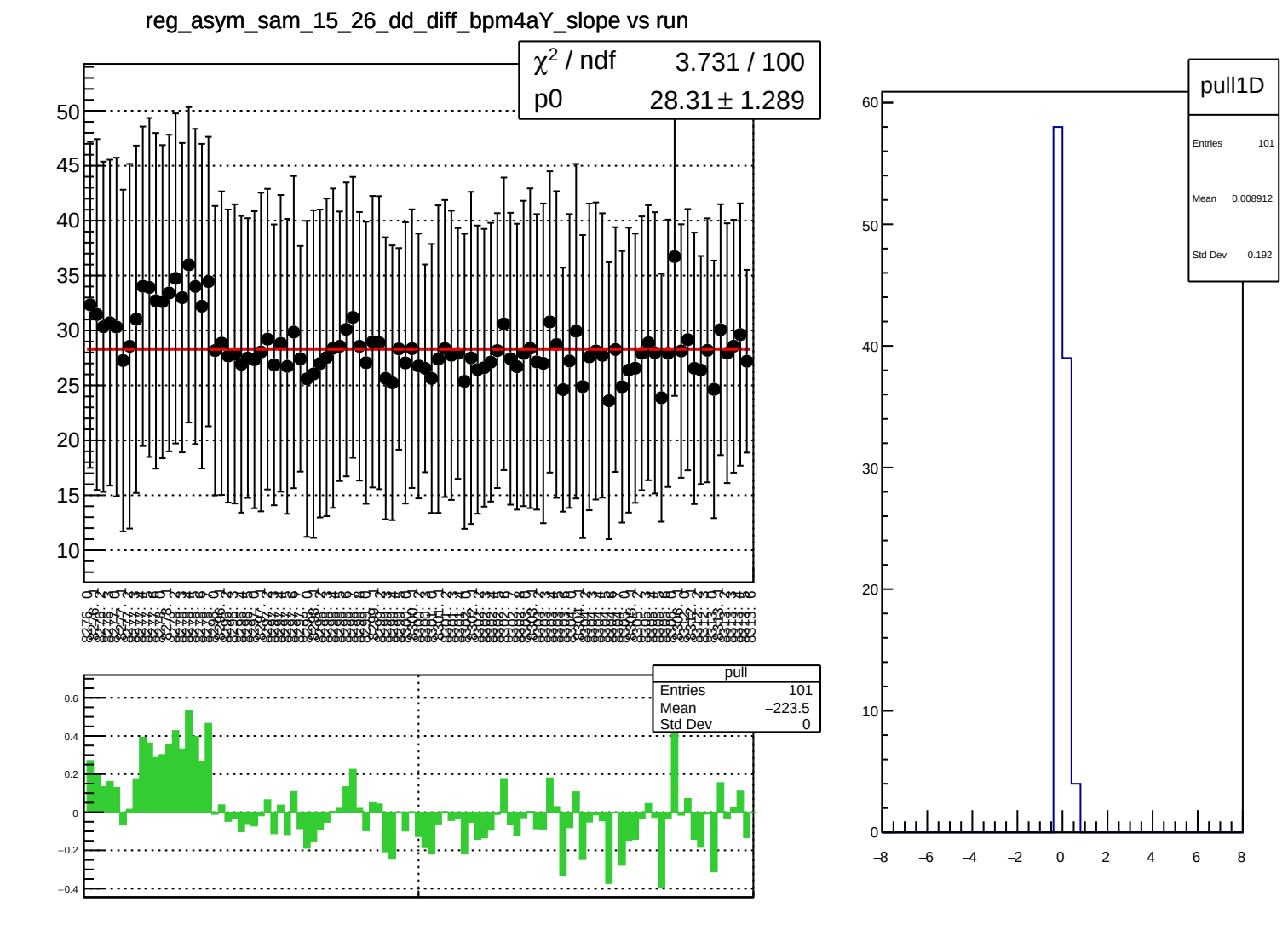

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.194 / 100
p0 −30.27 ± 0.7165
pull
Entries 101
Mean −650.2
Std Dev 0

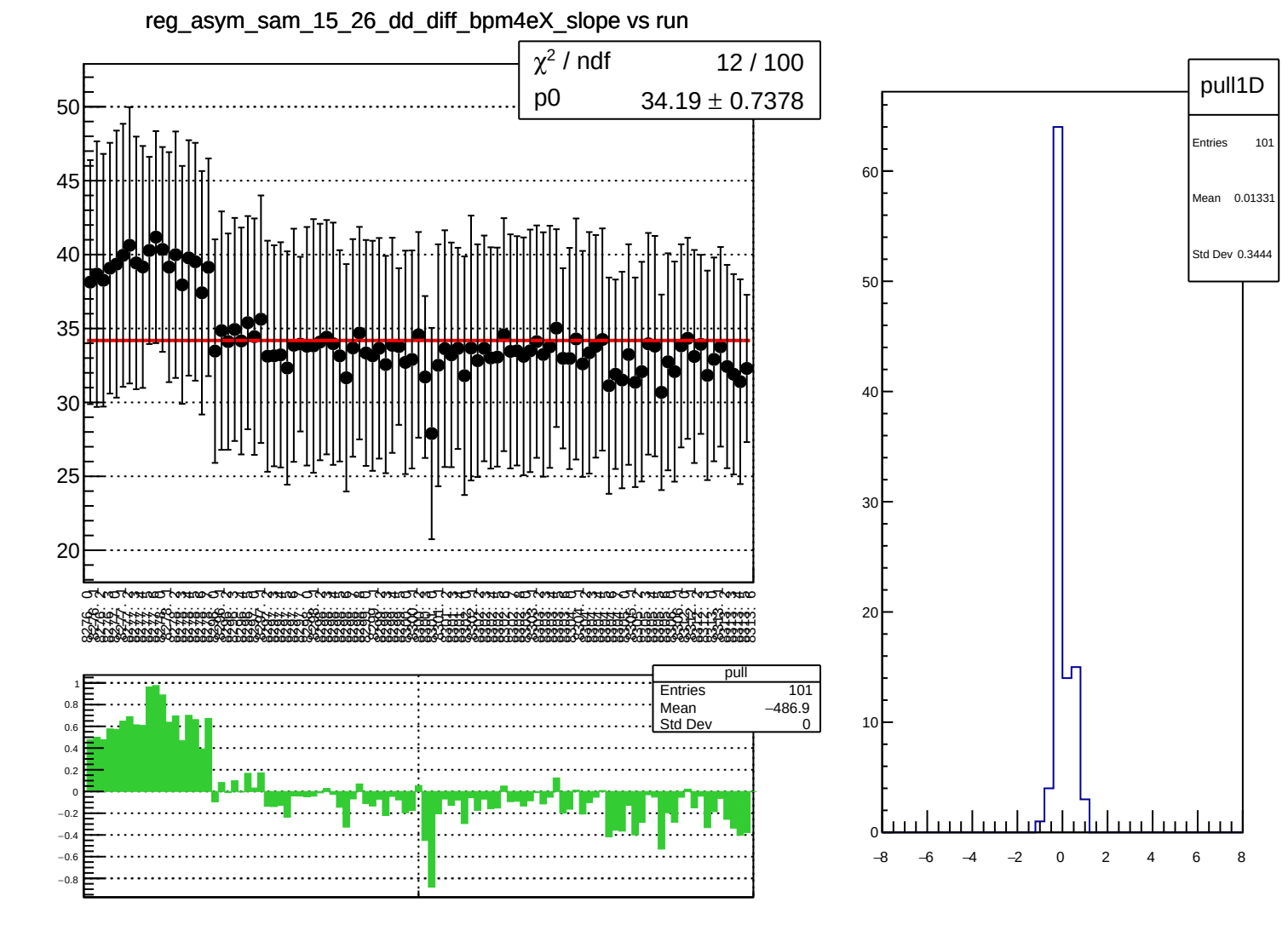

pull1D
Entries 101
Mean −0.002117
Std Dev 0.2476

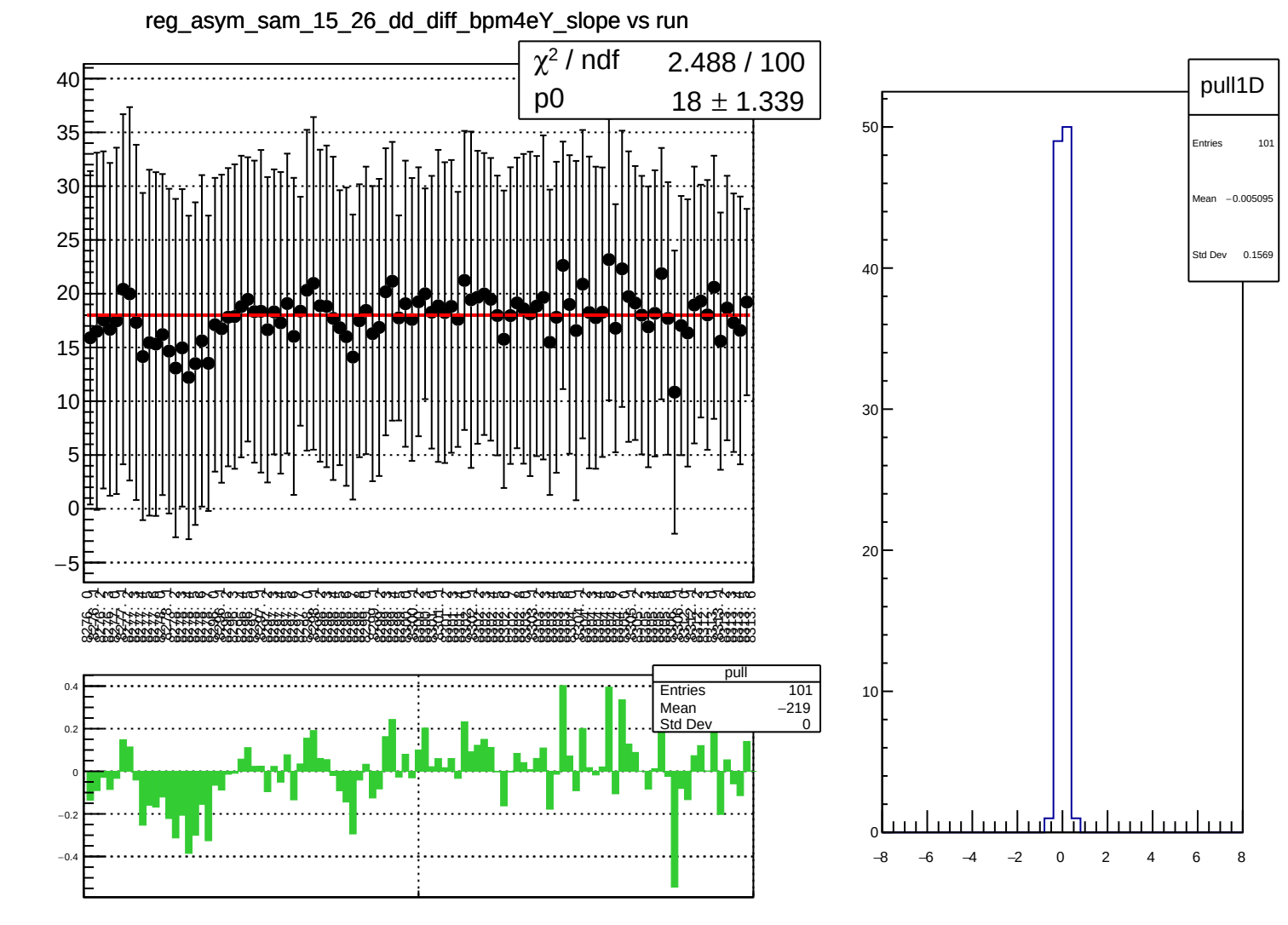

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 8.896 / 100
p0 0.4845 ± 0.0381
pull
Entries 101
Mean 335.6
Std Dev 0
pull1D
Entries 101
Mean −0.003813
Std Dev 0.2968

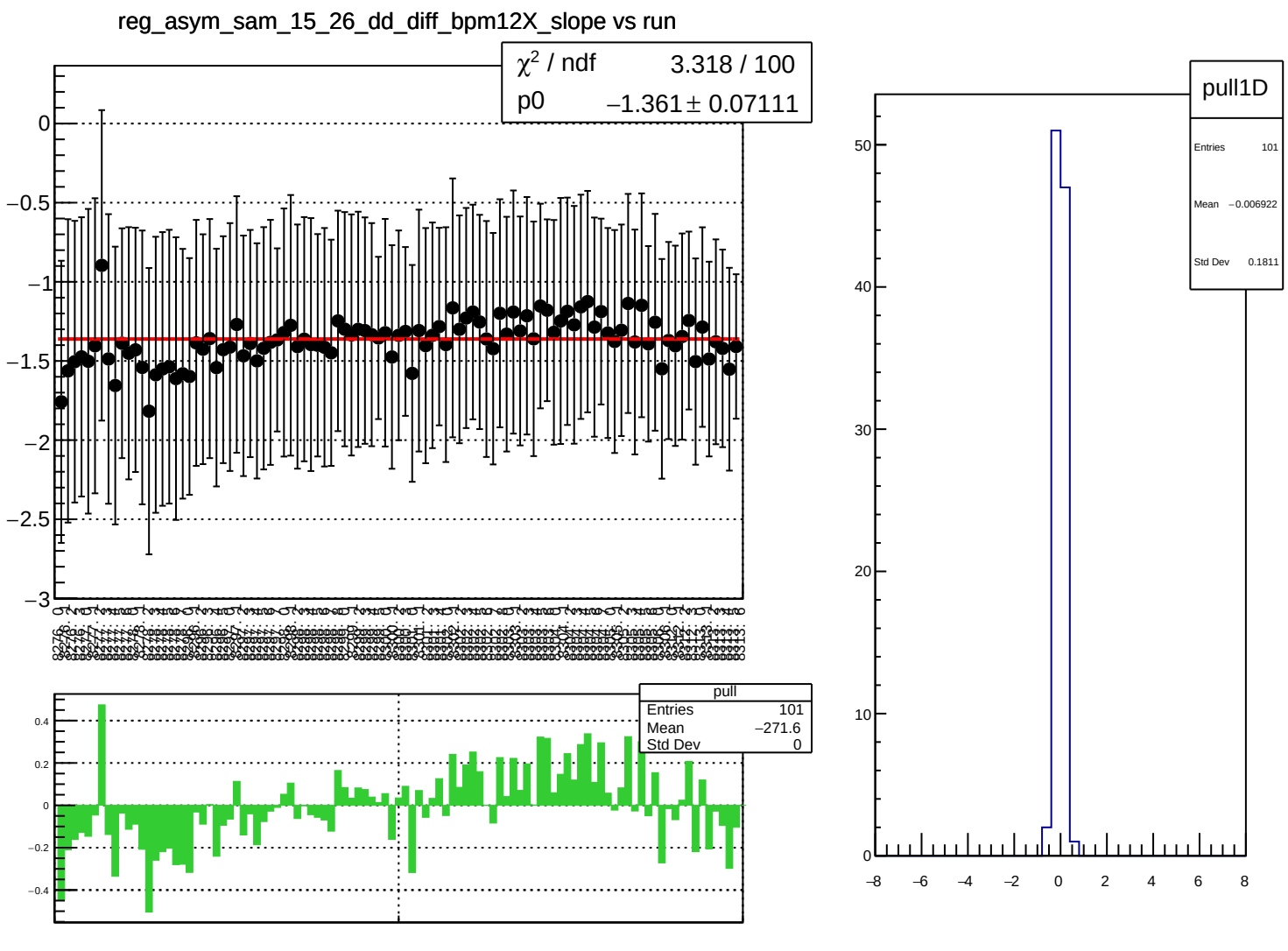

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 4.958 / 100
p0 −0.7053 ± 0.6609
pull
Entries 101
Mean −519.5
Std Dev 0

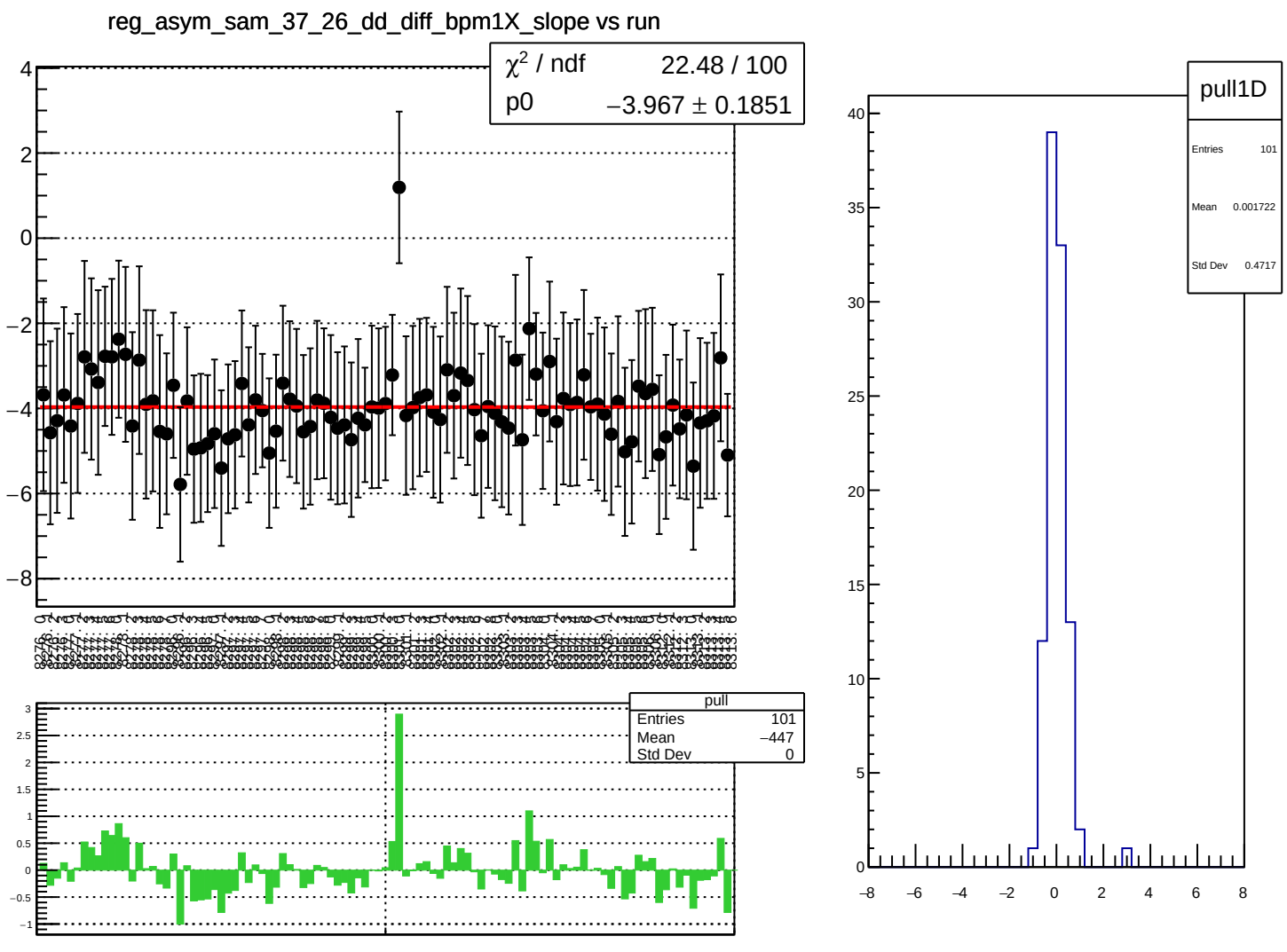

pull1D
Entries 101
Mean −0.007168
Std Dev 0.2215

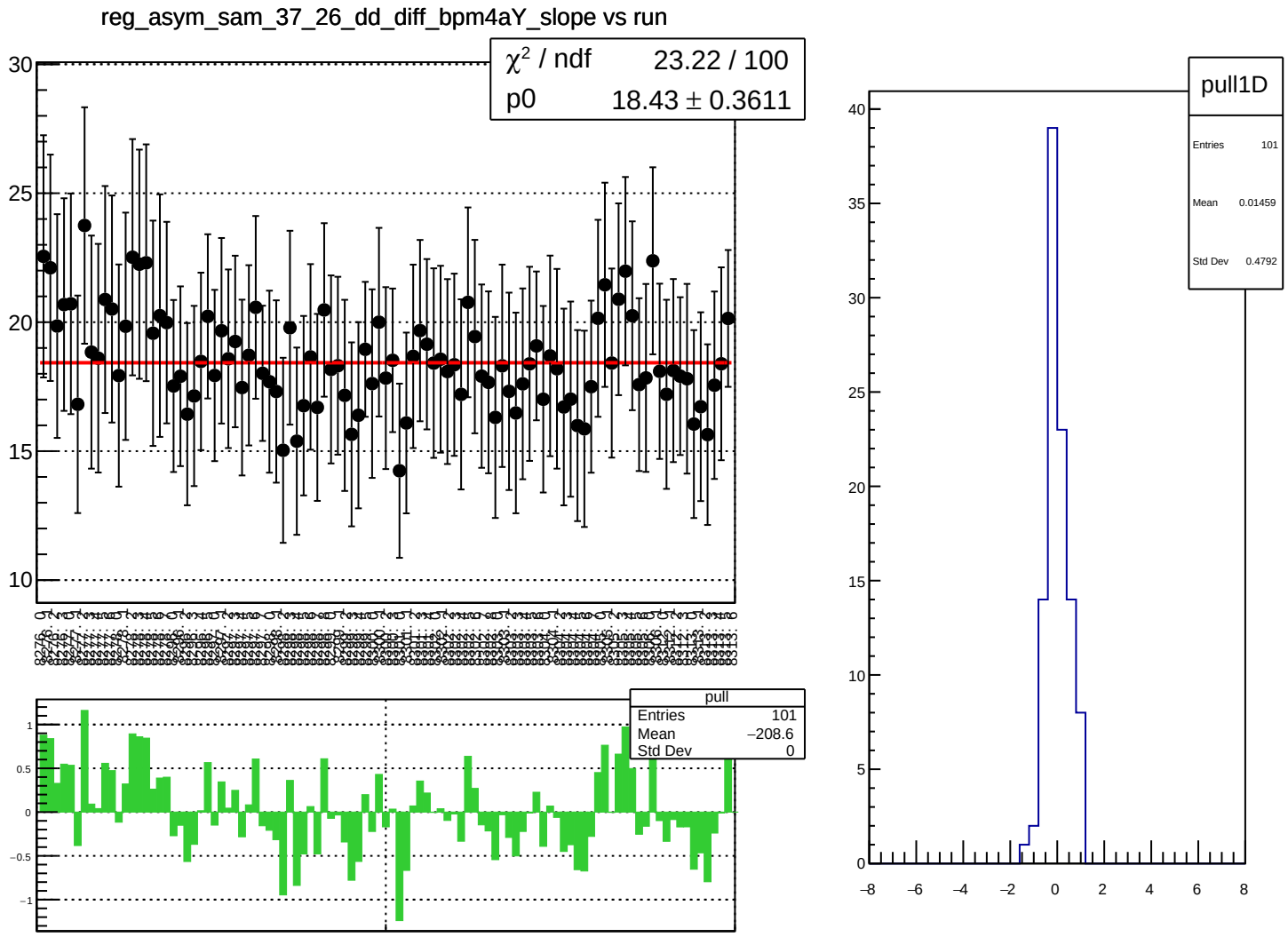

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.731 / 100
p0 28.31 ± 1.289
pull
Entries 101
Mean −223.5
Std Dev 0
pull1D
Entries 101
Mean 0.008912
Std Dev 0.192

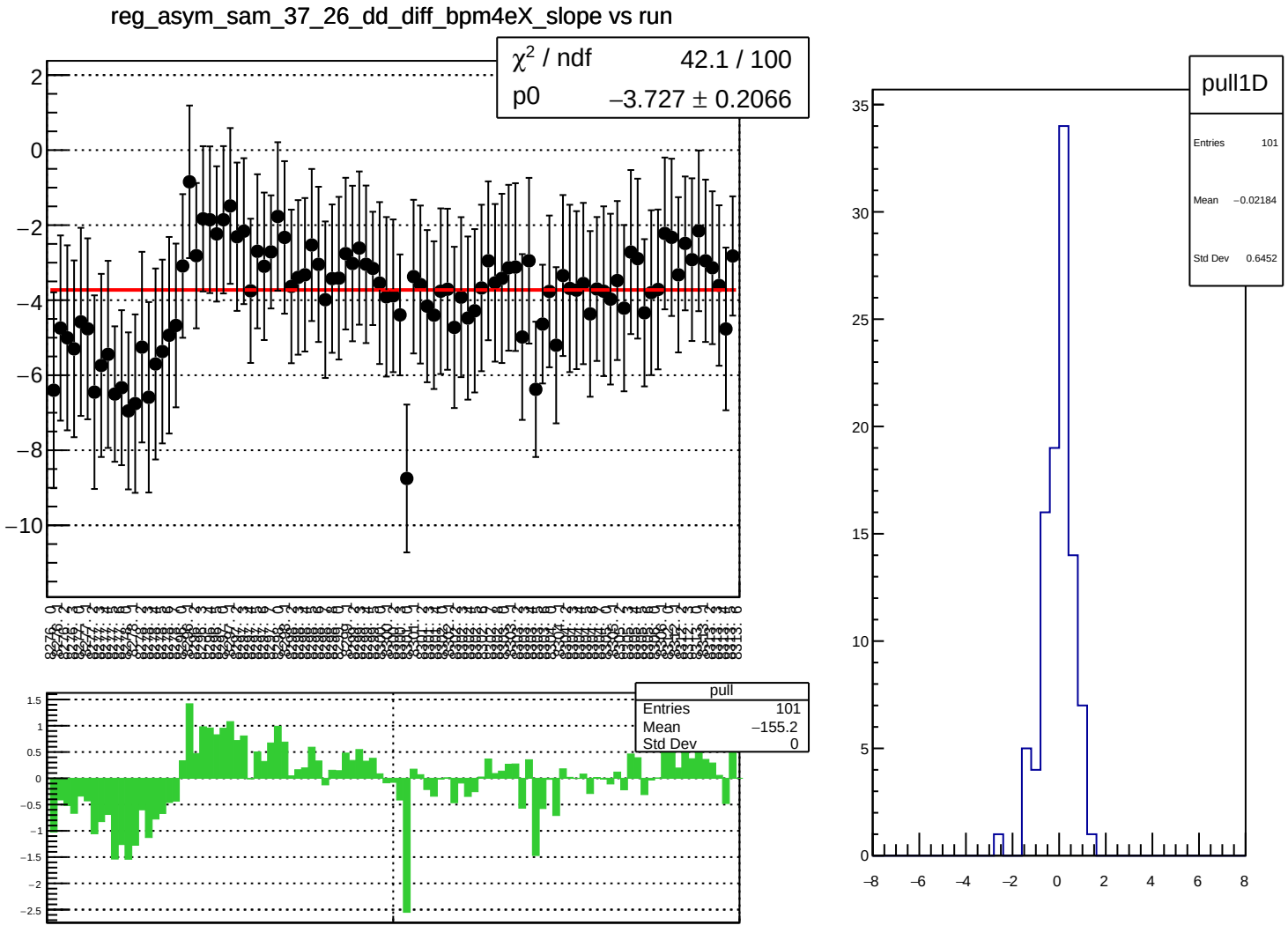

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 12 / 100
p0 34.19 ± 0.7378
pull
Entries 101
Mean −486.9
Std Dev 0
pull1D
Entries 101
Mean 0.01331
Std Dev 0.3444

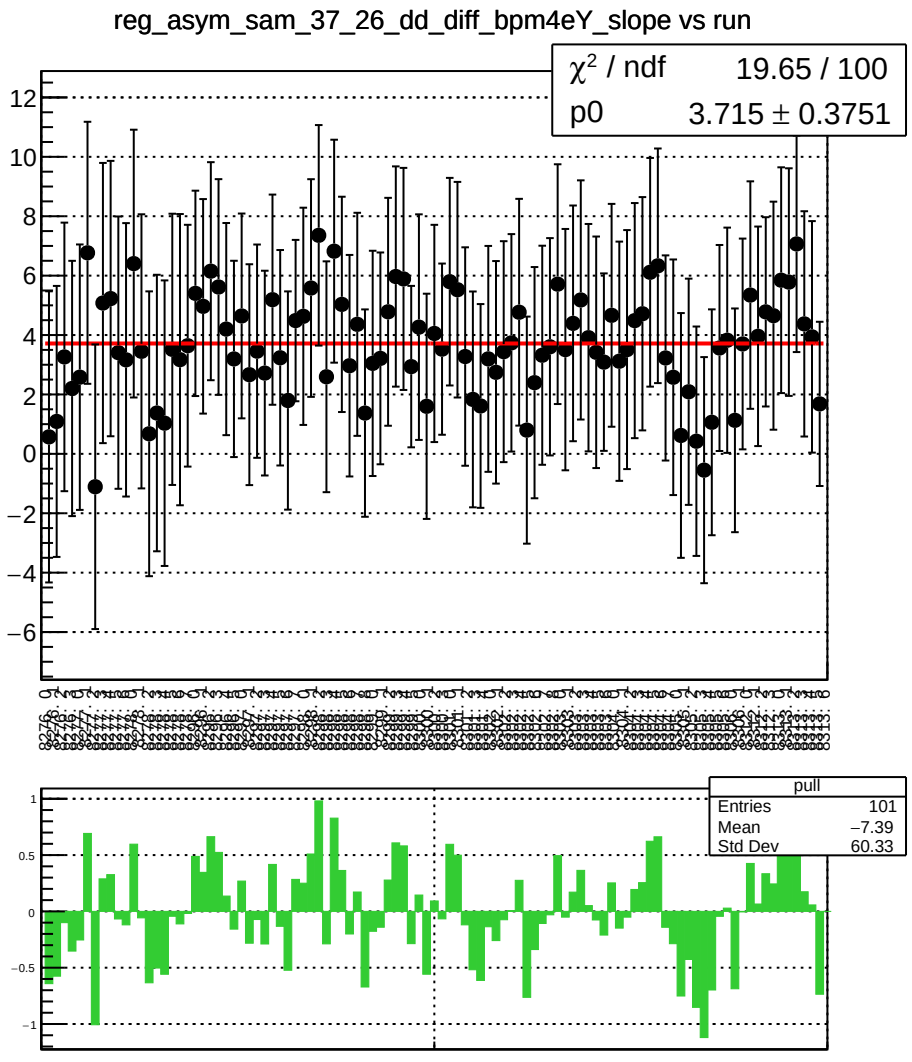

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.488 / 100
p0 18 ± 1.339
pull
Entries 101
Mean −219
Std Dev 0
pull1D
Entries 101
Mean −0.005095
Std Dev 0.1569

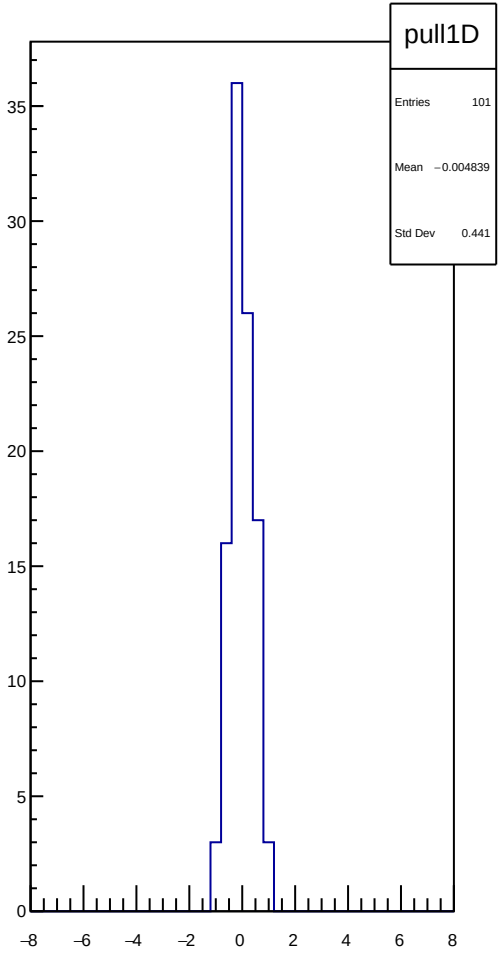

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 3.318 / 100
p0 −1.361 ± 0.07111
pull
Entries 101
Mean −271.6
Std Dev 0
pull1D
Entries 101
Mean −0.006922
Std Dev 0.1811

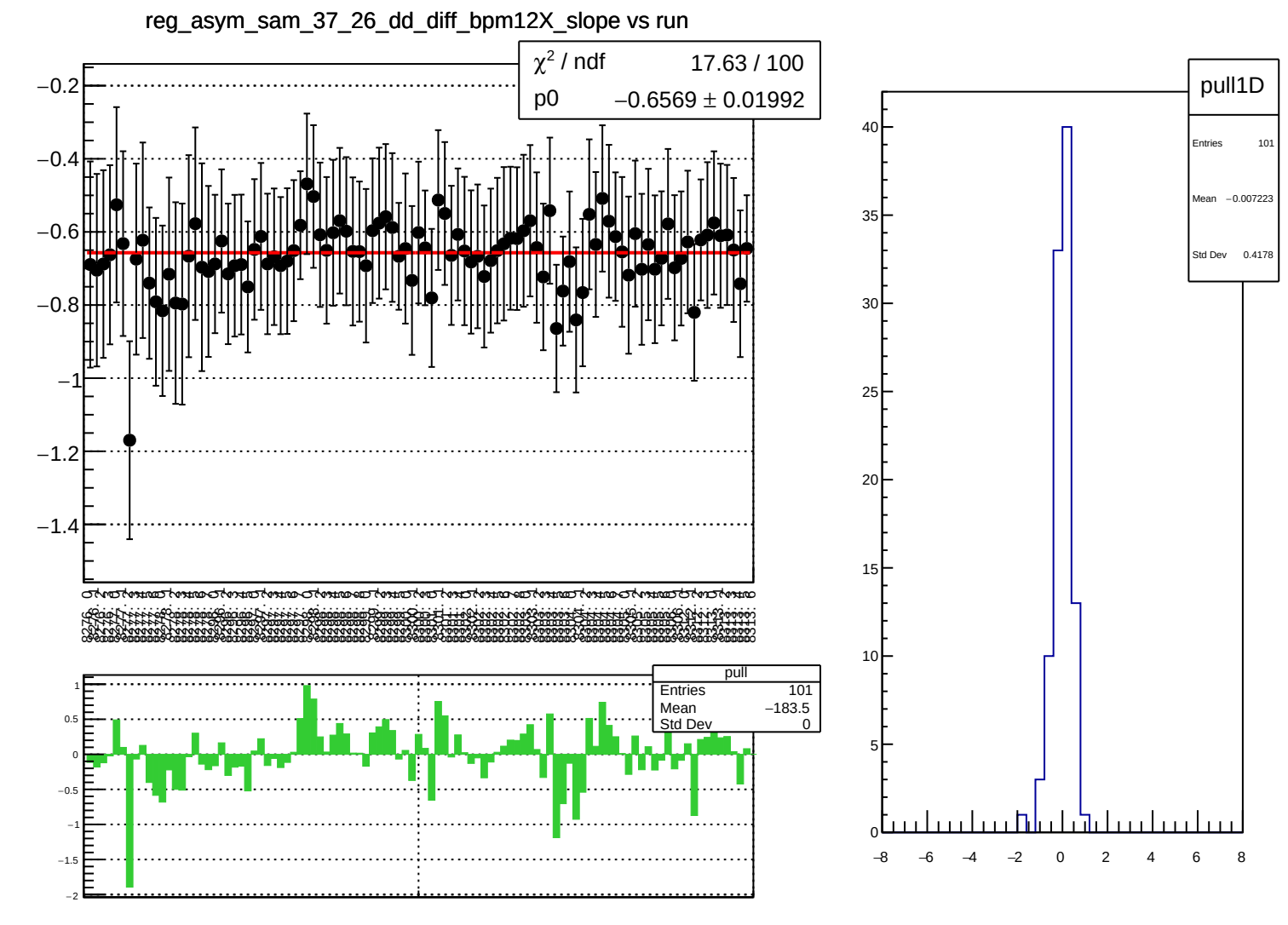

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 22.48 / 100
p0 −3.967 ± 0.1851
pull
Entries 101
Mean −447
Std Dev 0
pull1D
Entries 101
Mean 0.001722
Std Dev 0.4717

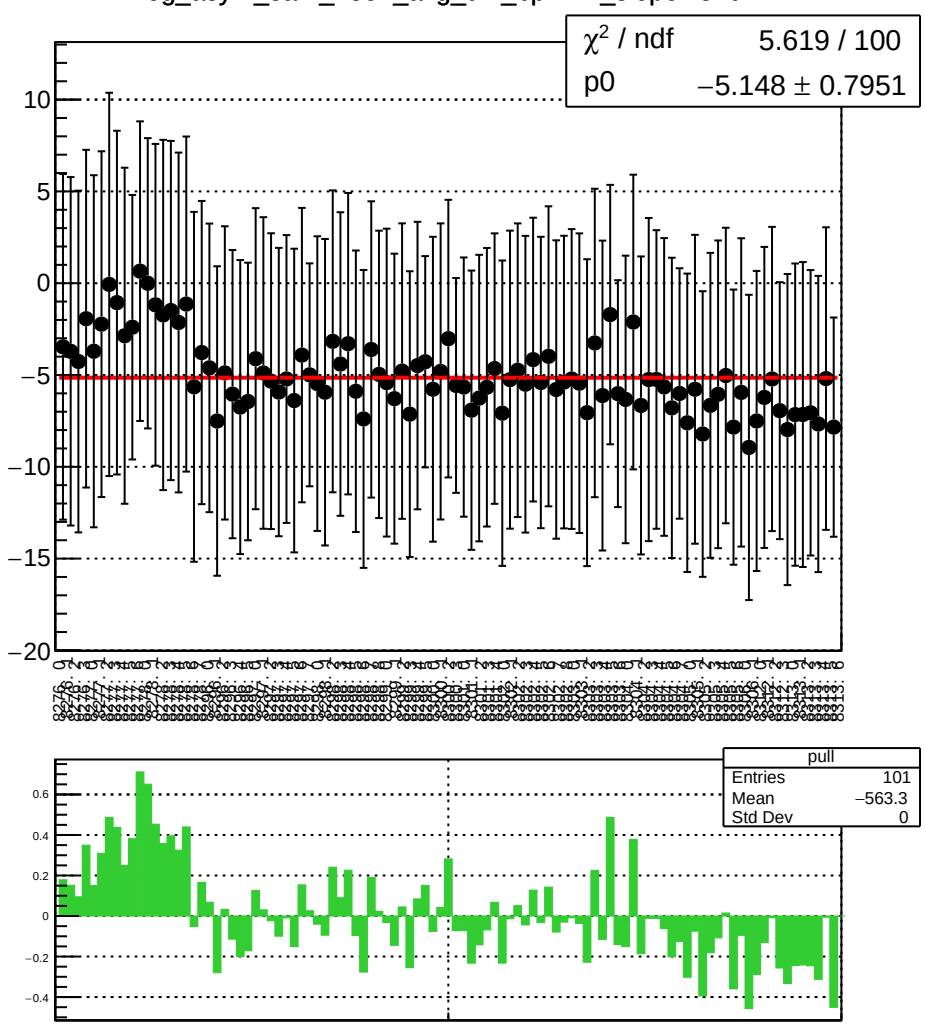

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 23.22 / 100
p0 18.43 ± 0.3611
pull
Entries 101
Mean −208.6
Std Dev 0
pull1D
Entries 101
Mean 0.01459
Std Dev 0.4792

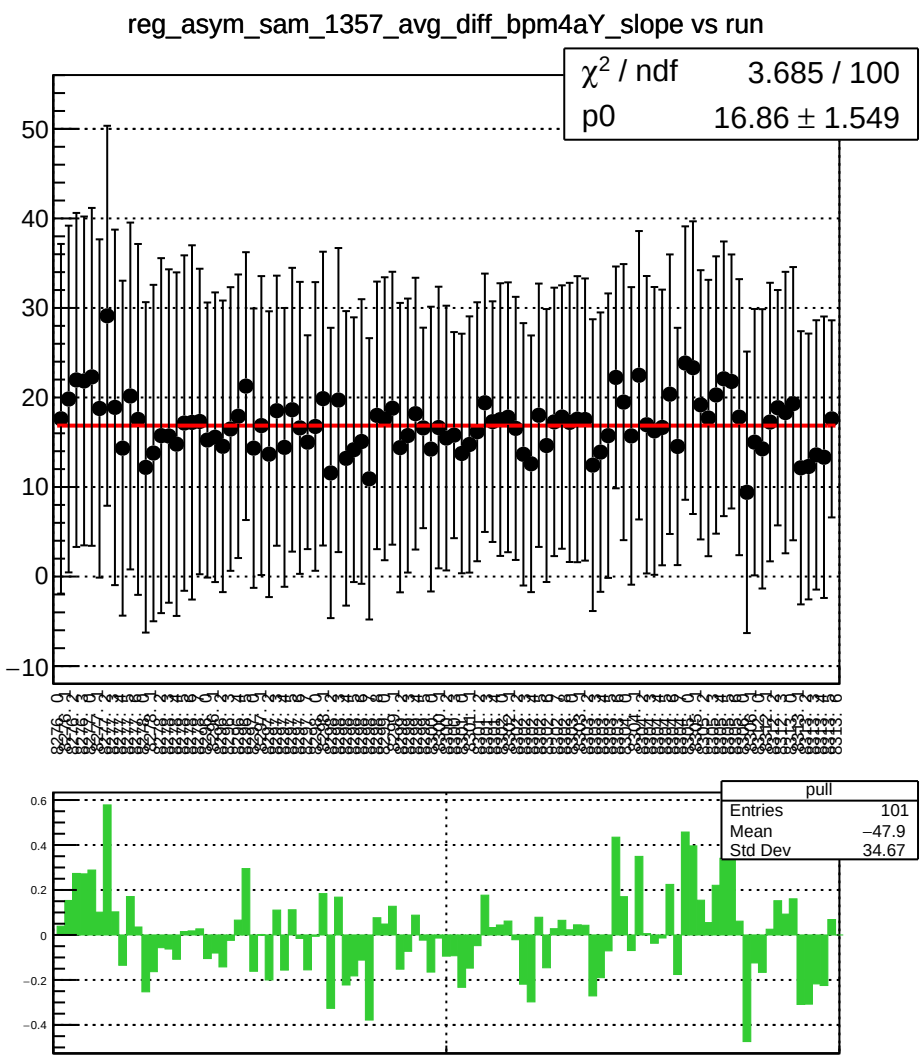

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 42.1 / 100
p0 −3.727 ± 0.2066
pull
Entries 101
Mean −155.2
Std Dev 0
pull1D
Entries 101
Mean −0.02184
Std Dev 0.6452

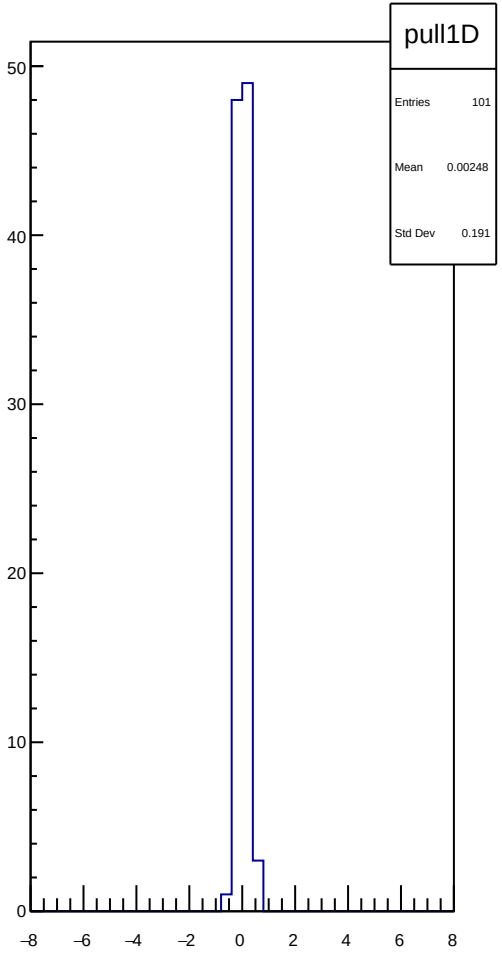

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.65 / 100
p0 3.715 ± 0.3751
pull
Entries 101
Mean −7.39
Std Dev 60.33

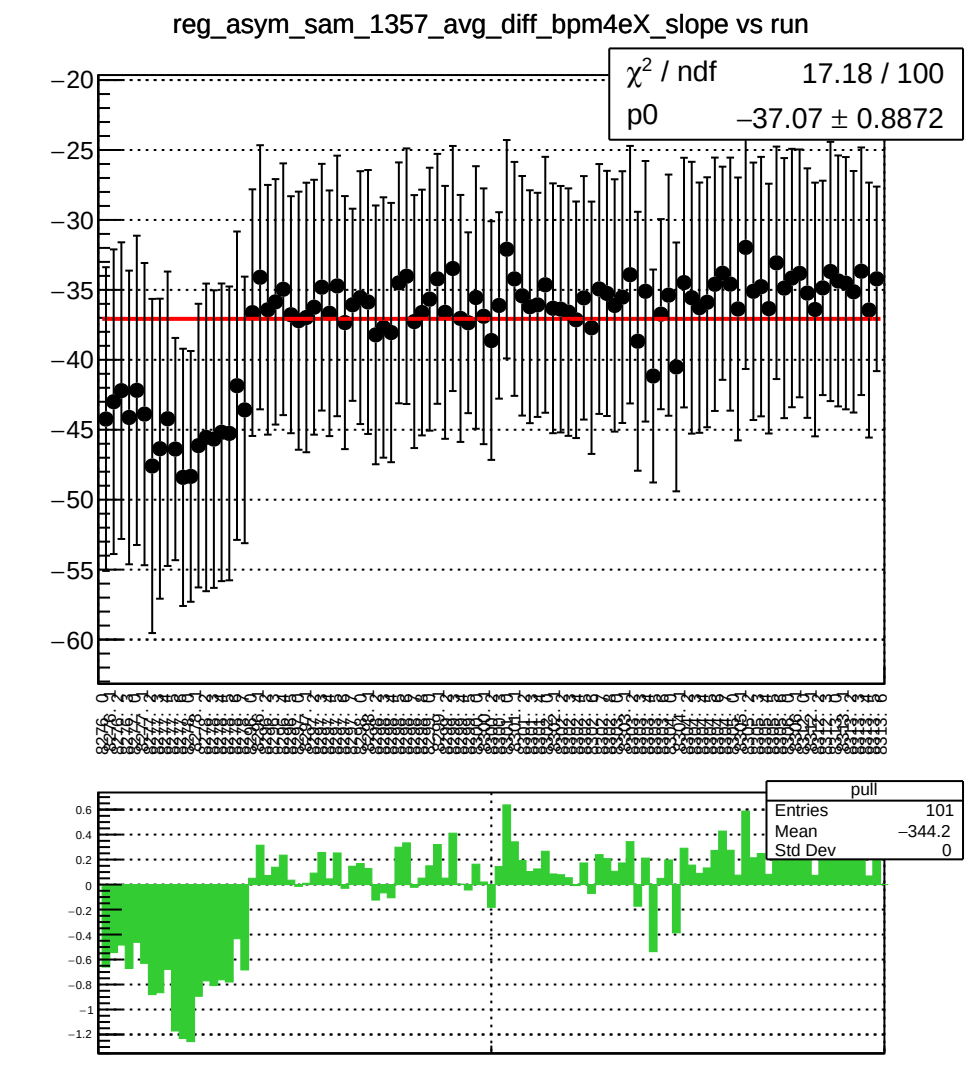

pull1D
Entries 101
Mean −0.004839
Std Dev 0.441

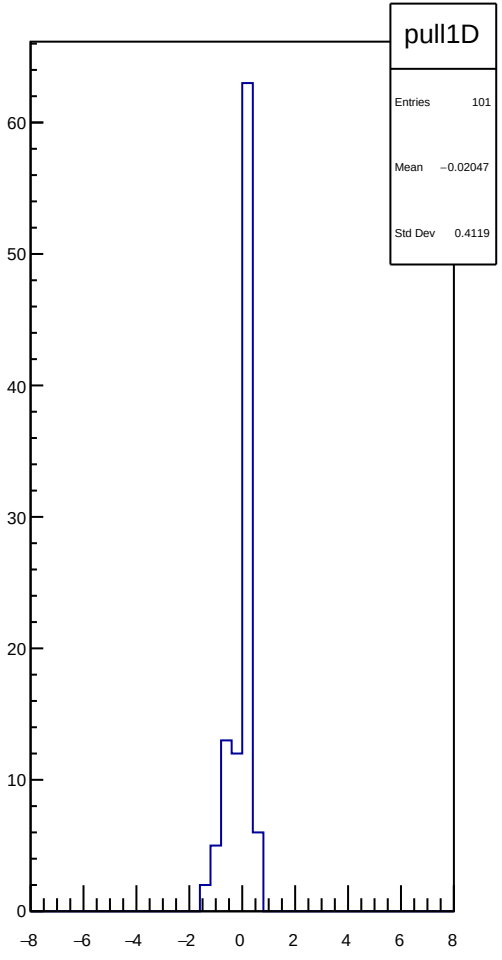

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 17.63 / 100
p0 −0.6569 ± 0.01992
pull
Entries 101
Mean −183.5
Std Dev 0
pull1D
Entries 101
Mean −0.007223
Std Dev 0.4178

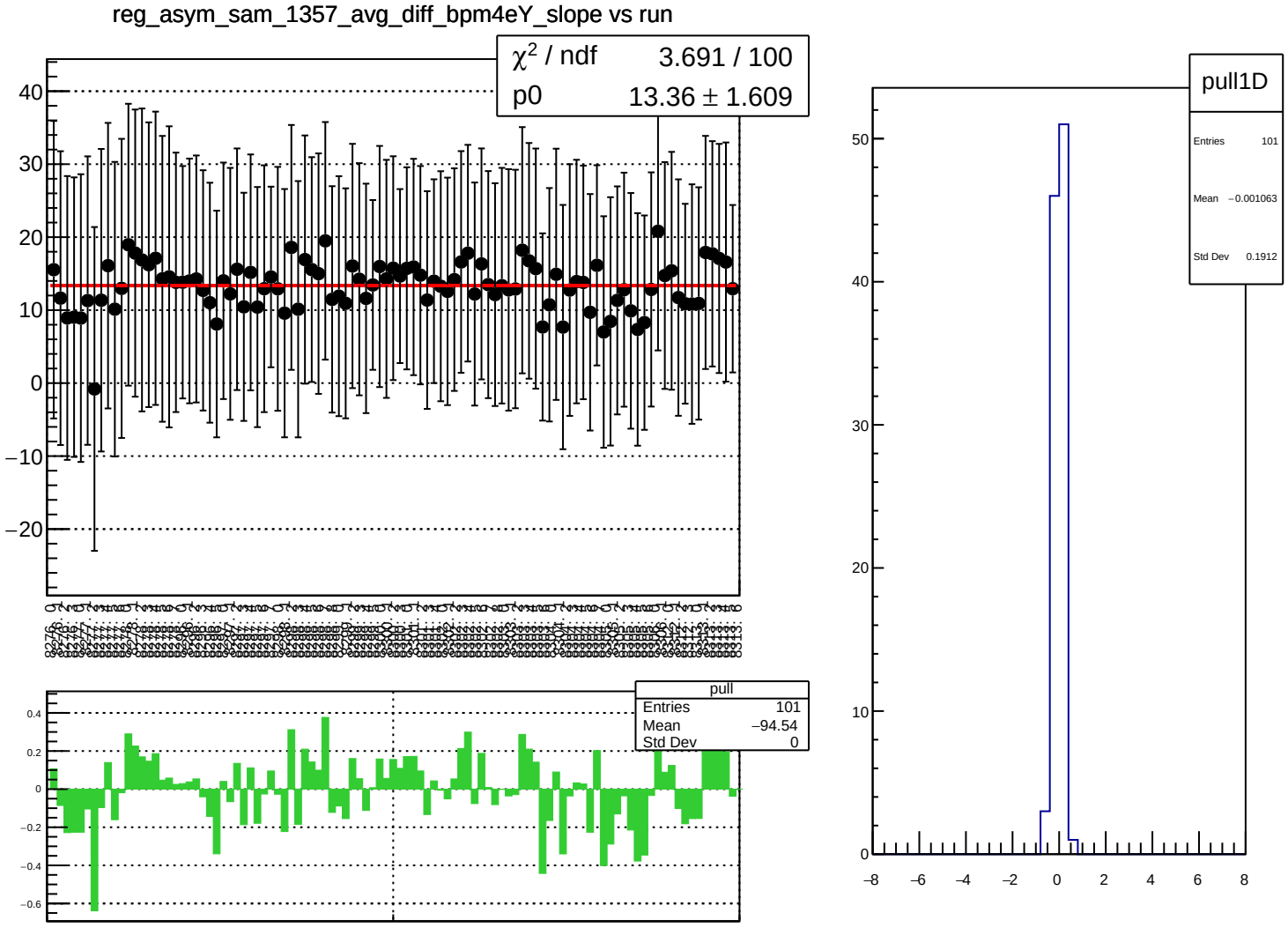

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 5.619 / 100
p0 −5.148 ± 0.7951
pull
Entries 101
Mean −563.3
Std Dev 0
pull1D
Entries 101
Mean 0.006934
Std Dev 0.2358

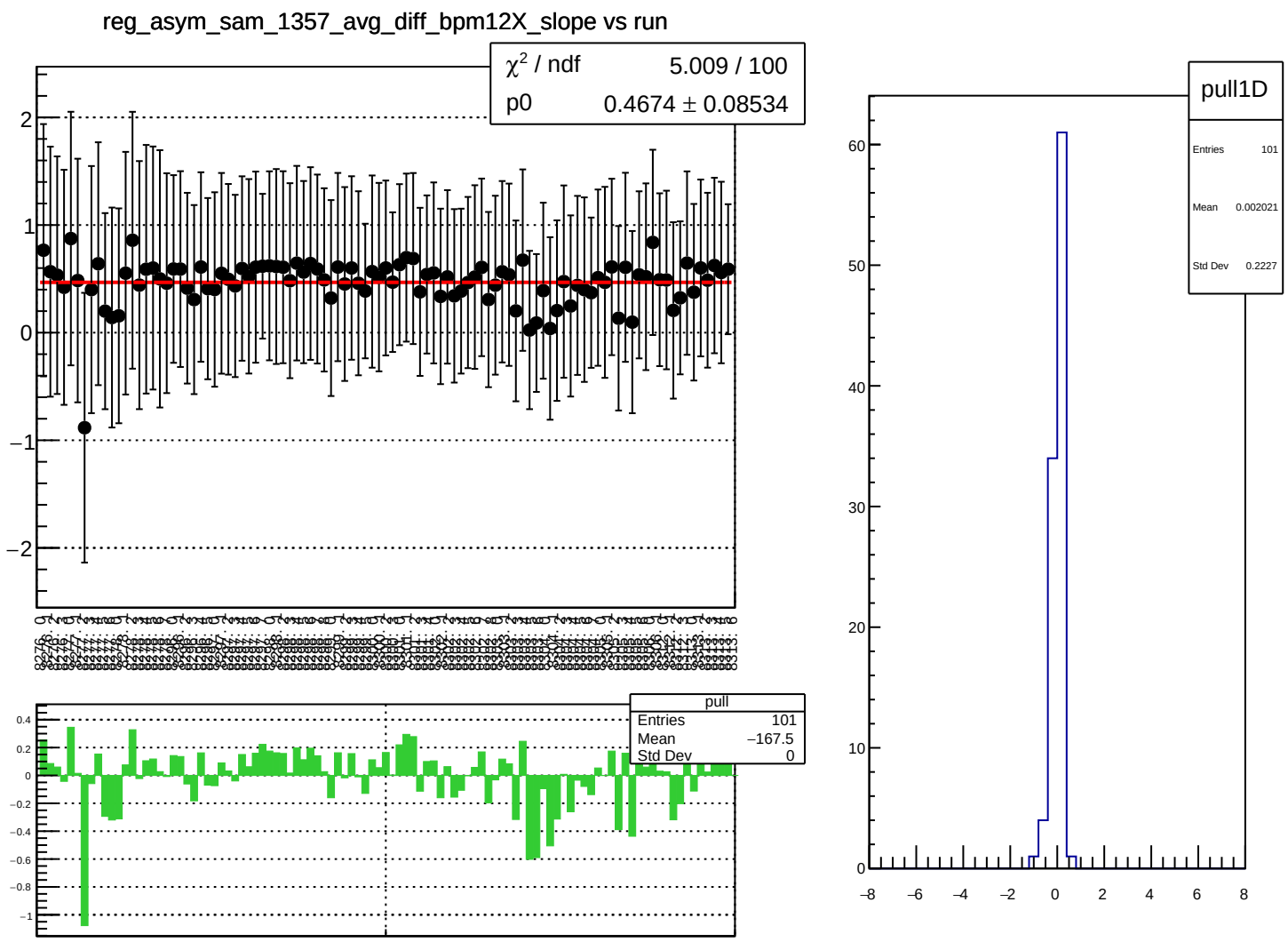

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.685 / 100
p0 16.86 ± 1.549
pull
Entries 101
Mean −47.9
Std Dev 34.67

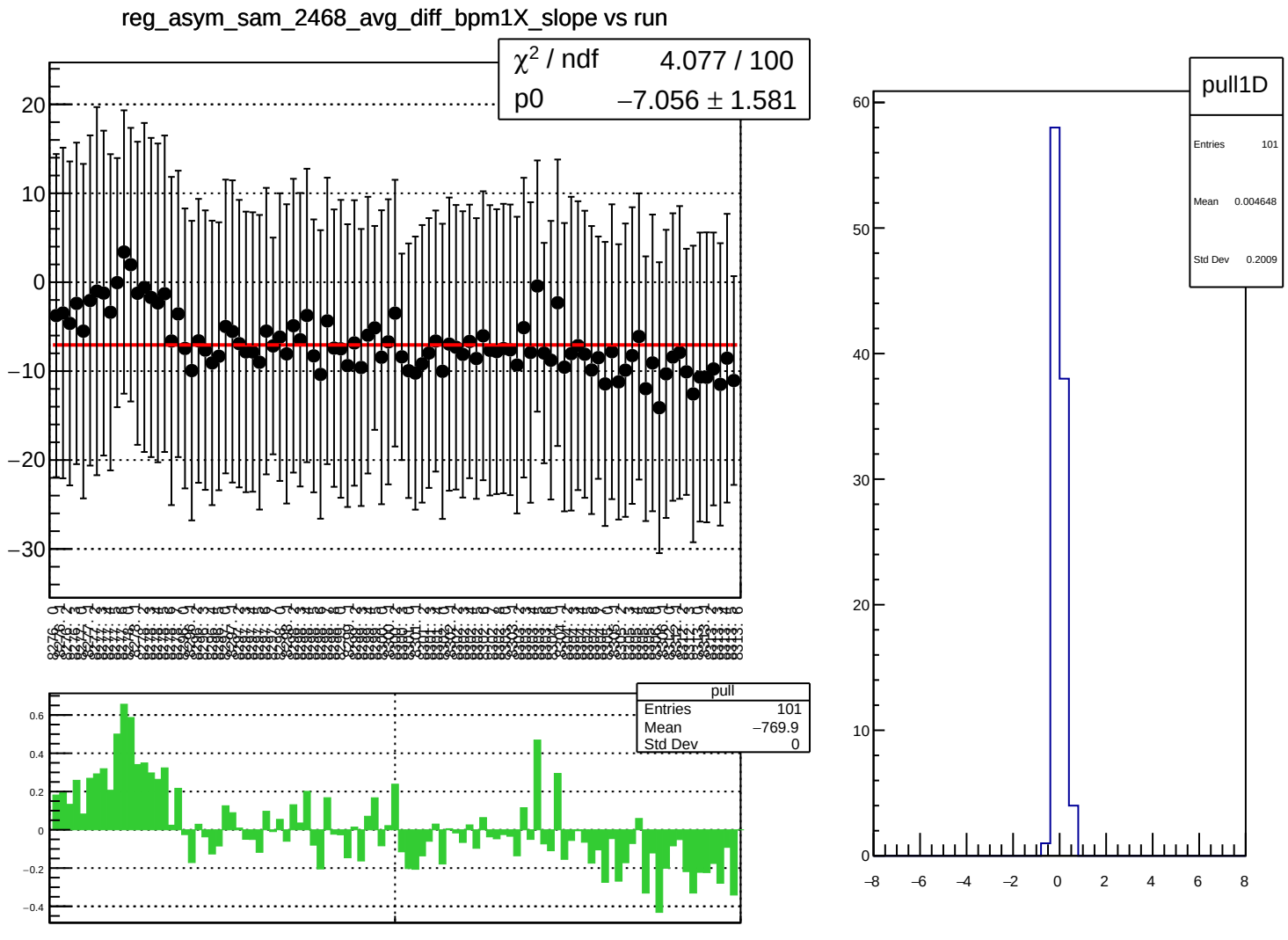

pull1D
Entries 101
Mean 0.00248
Std Dev 0.191

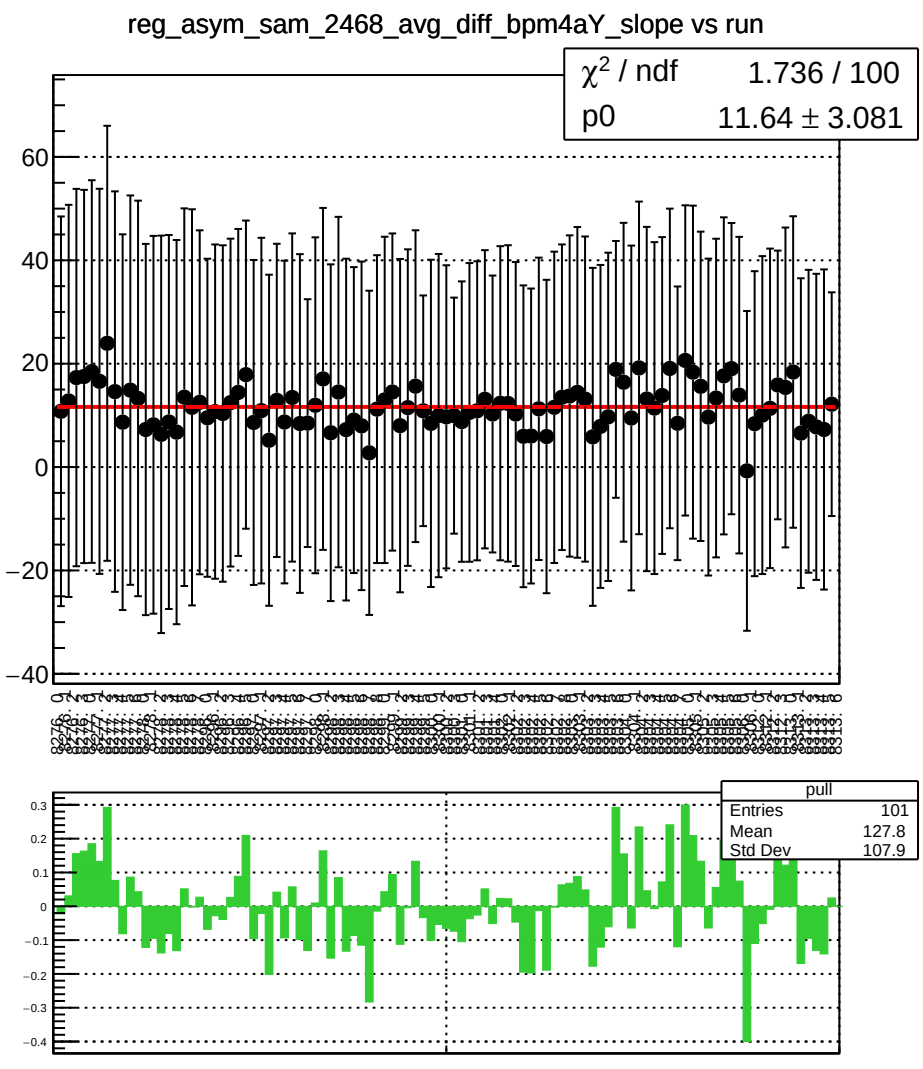

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 17.18 / 100
p0 −37.07 ± 0.8872
pull
Entries 101
Mean −344.2
Std Dev 0

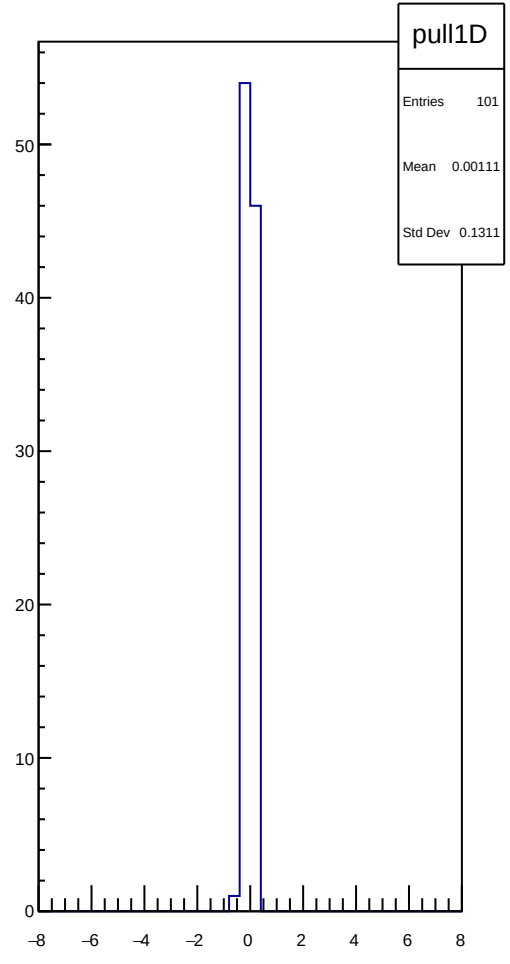

pull1D
Entries 101
Mean −0.02047
Std Dev 0.4119

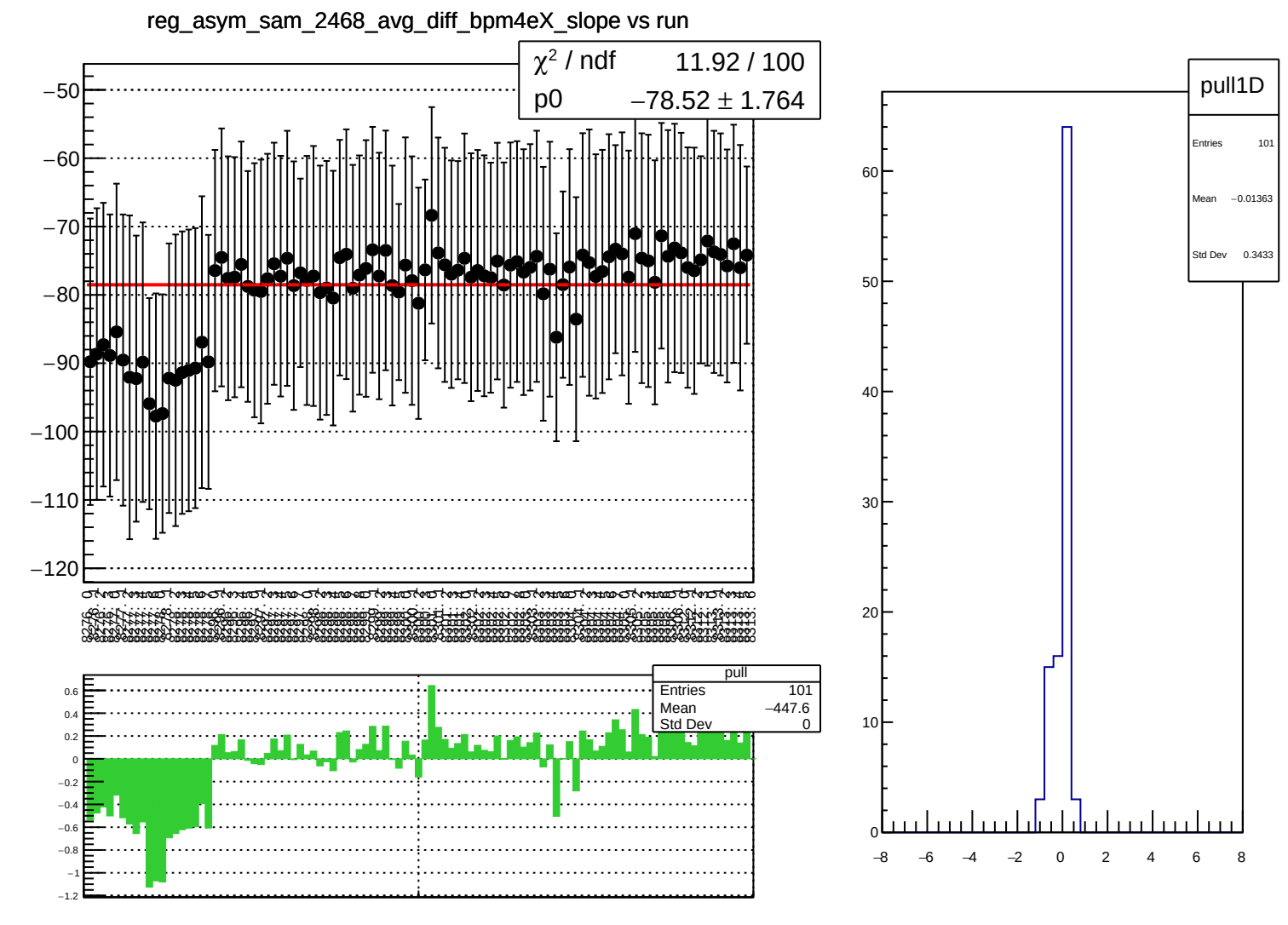

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.691 / 100
p0 13.36 ± 1.609
pull
Entries 101
Mean −94.54
Std Dev 0
pull1D
Entries 101
Mean −0.001063
Std Dev 0.1912

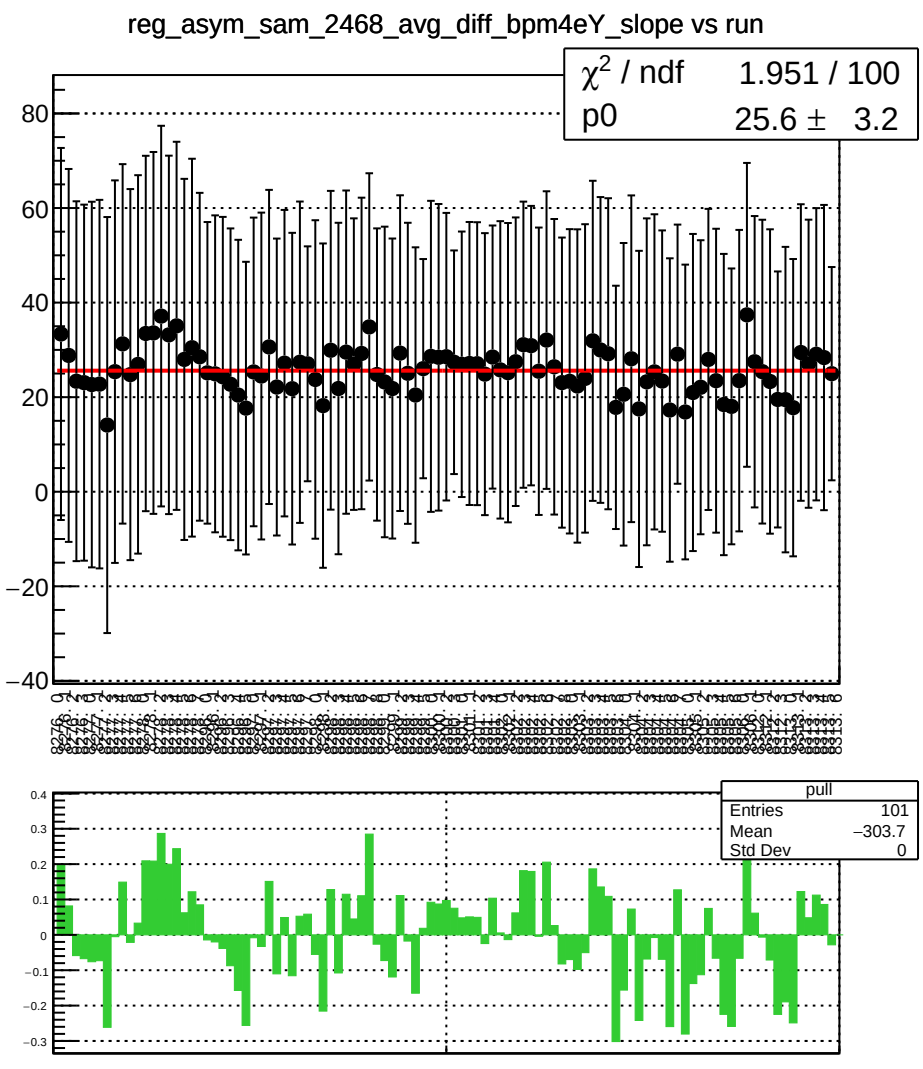

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 5.009 / 100
p0 0.4674 ± 0.08534
pull
Entries 101
Mean −167.5
Std Dev 0
pull1D
Entries 101
Mean 0.002021
Std Dev 0.2227

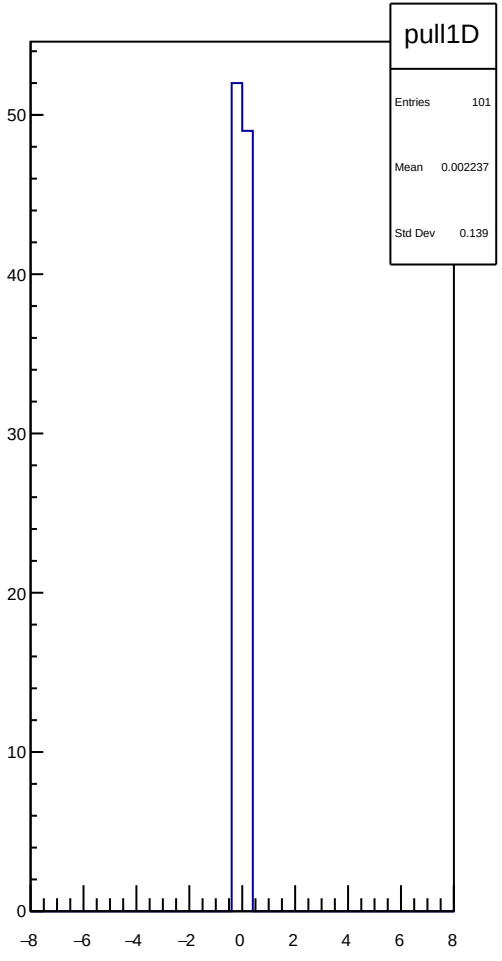

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 4.077 / 100
p0 −7.056 ± 1.581
pull
Entries 101
Mean −769.9
Std Dev 0
pull1D
Entries 101
Mean 0.004648
Std Dev 0.2009

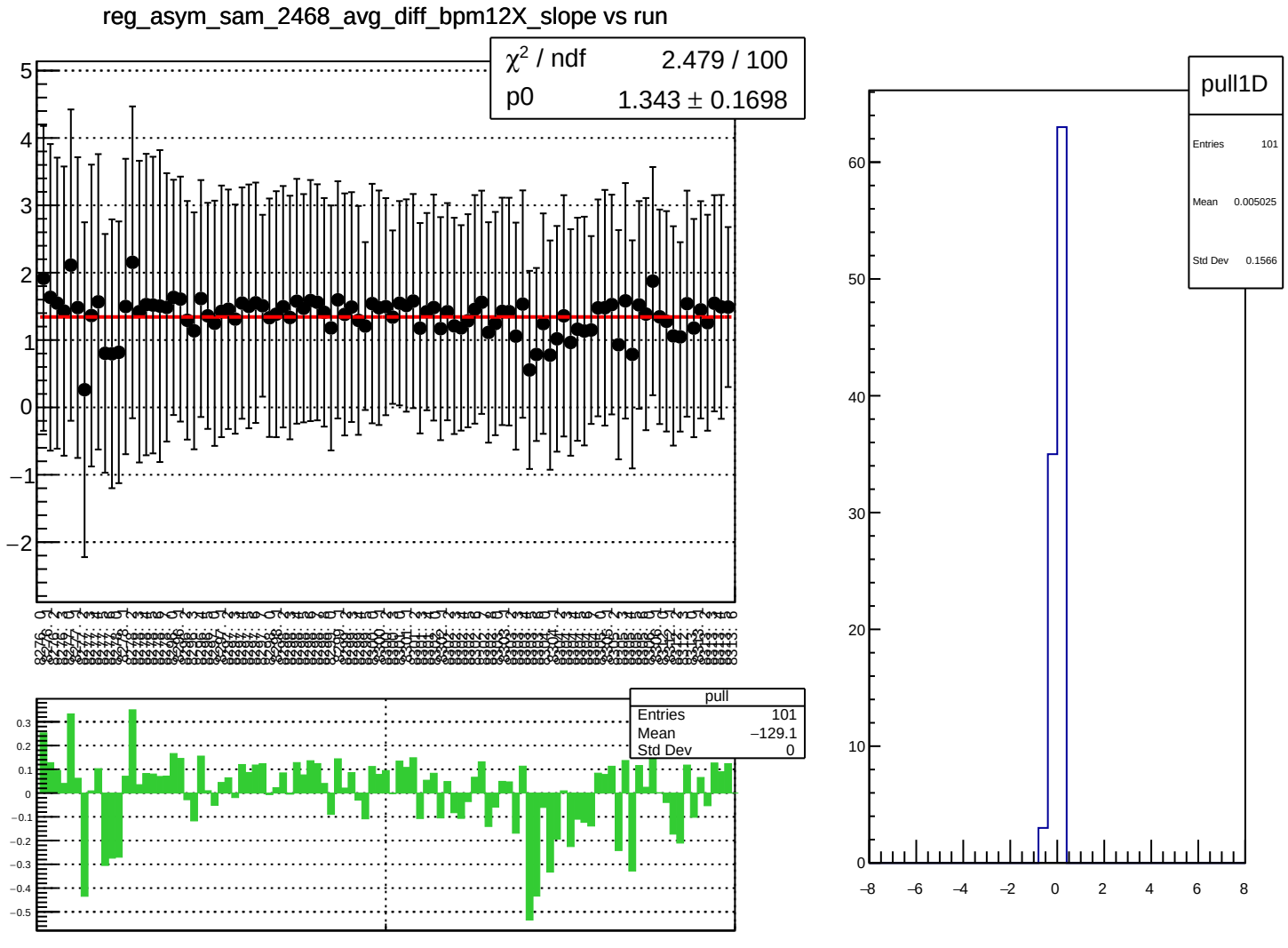

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.736 / 100
p0 11.64 ± 3.081
pull
Entries 101
Mean 127.8
Std Dev 107.9

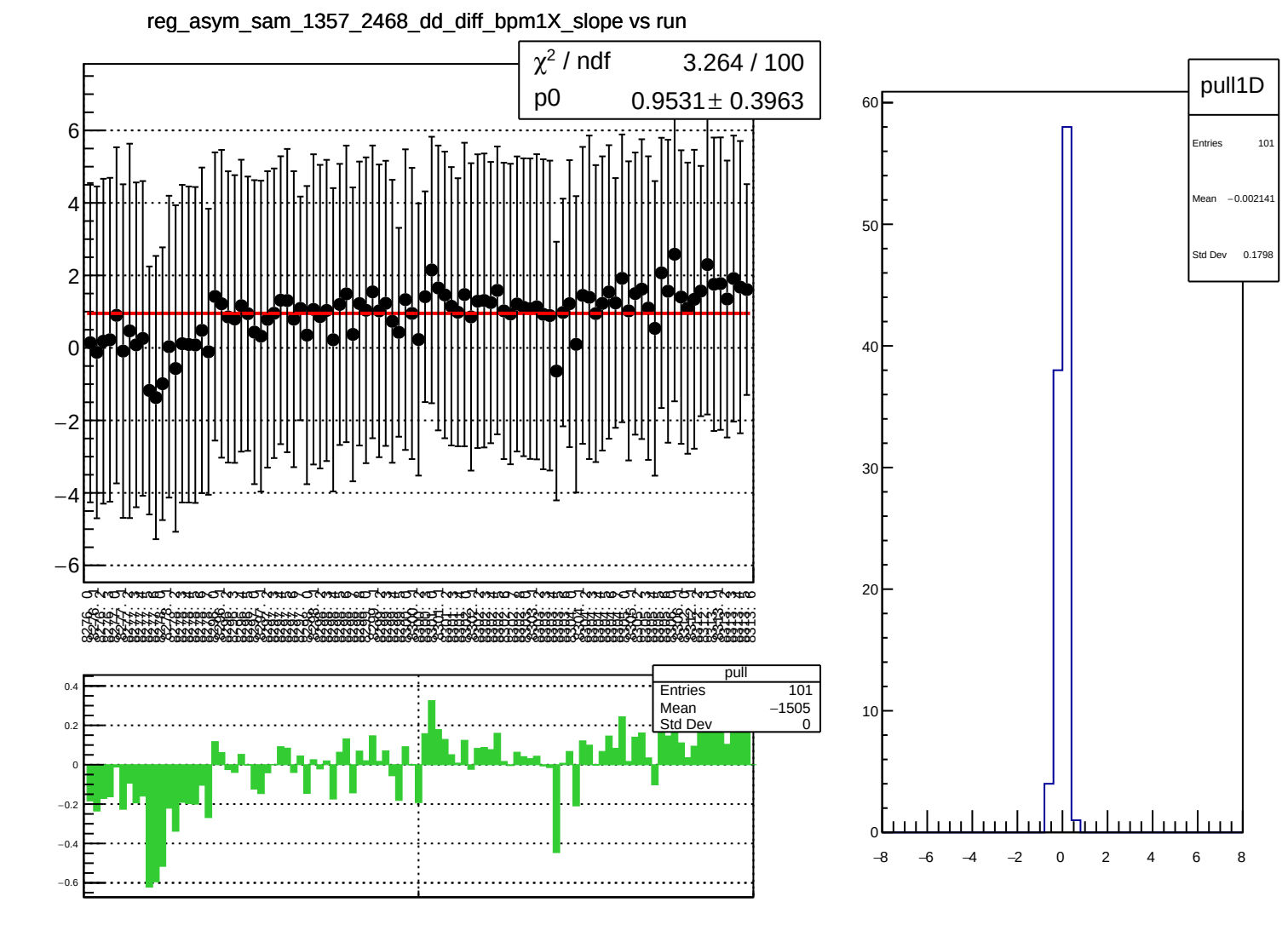

pull1D
Entries 101
Mean 0.00111
Std Dev 0.1311

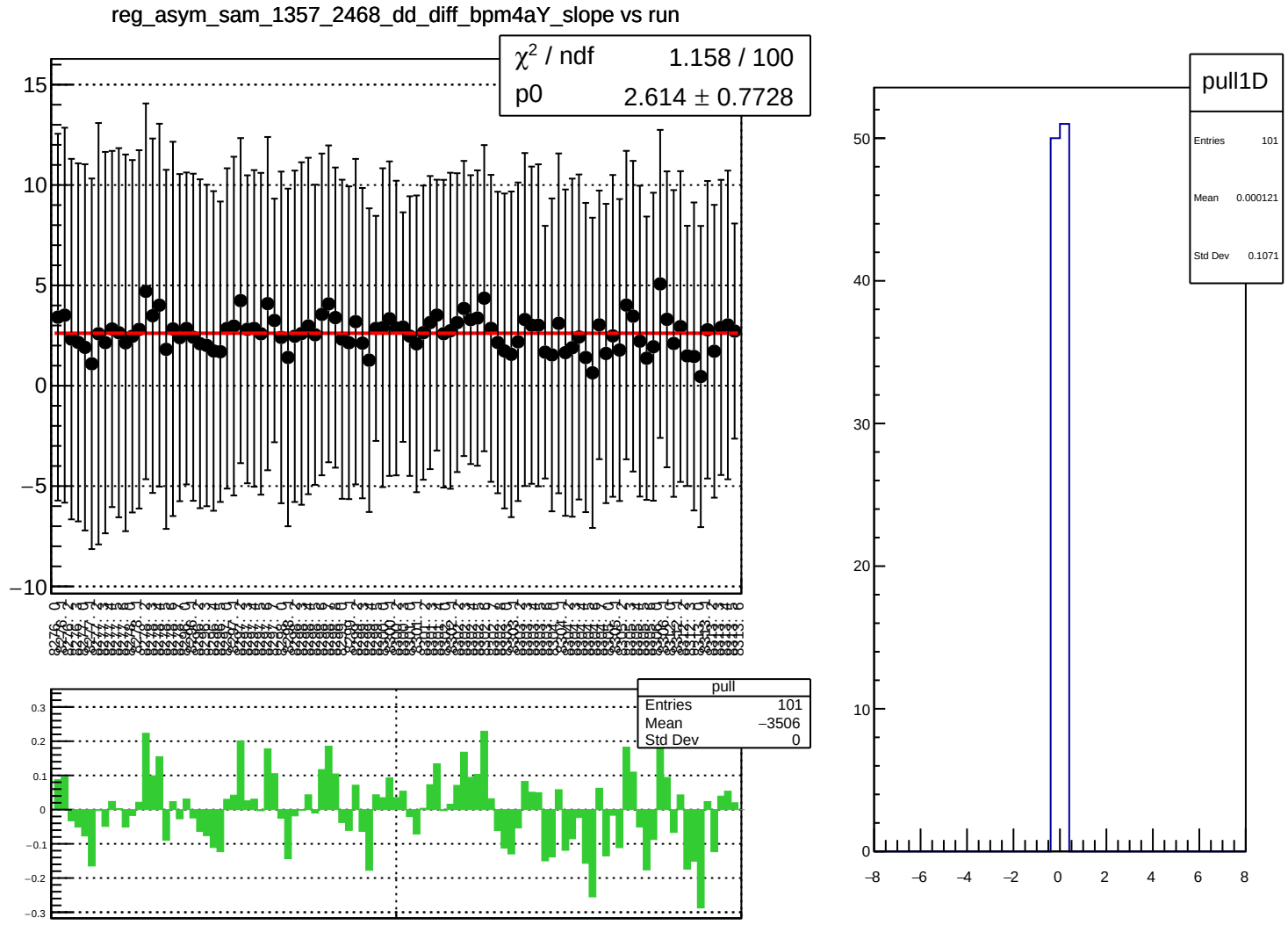

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 11.92 / 100
p0 −78.52 ± 1.764
pull
Entries 101
Mean −447.6
Std Dev 0
pull1D
Entries 101
Mean −0.01363
Std Dev 0.3433

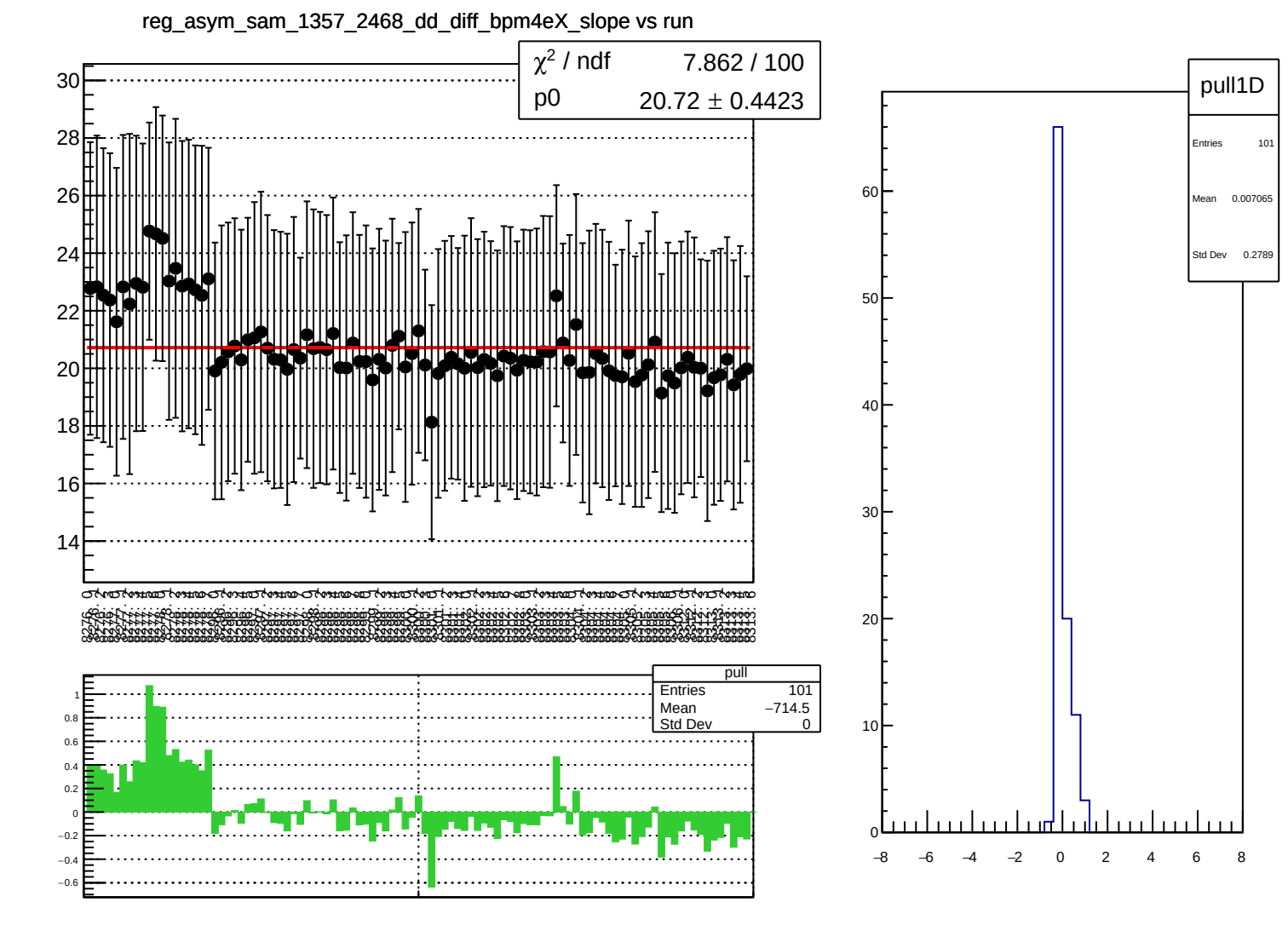

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.951 / 100
p0 25.6 ± 3.2
pull
Entries 101
Mean −303.7
Std Dev 0

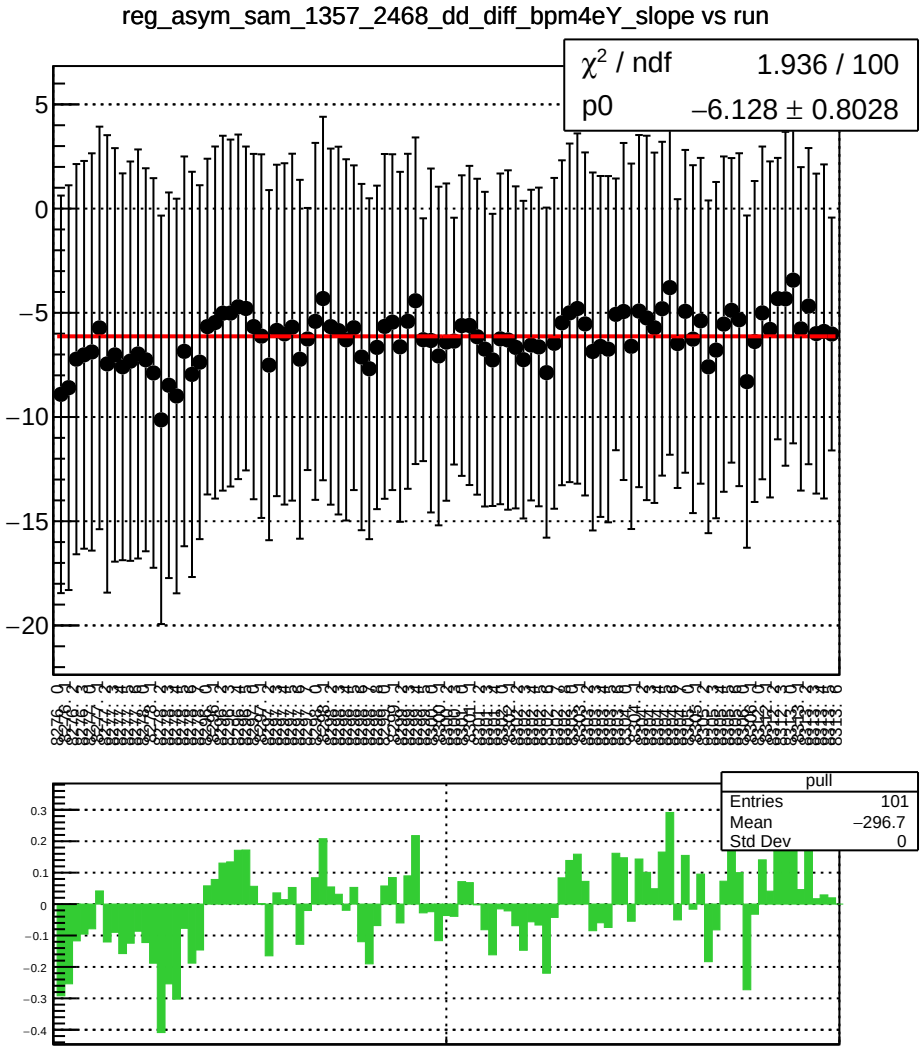

pull1D
Entries 101
Mean 0.002237
Std Dev 0.139

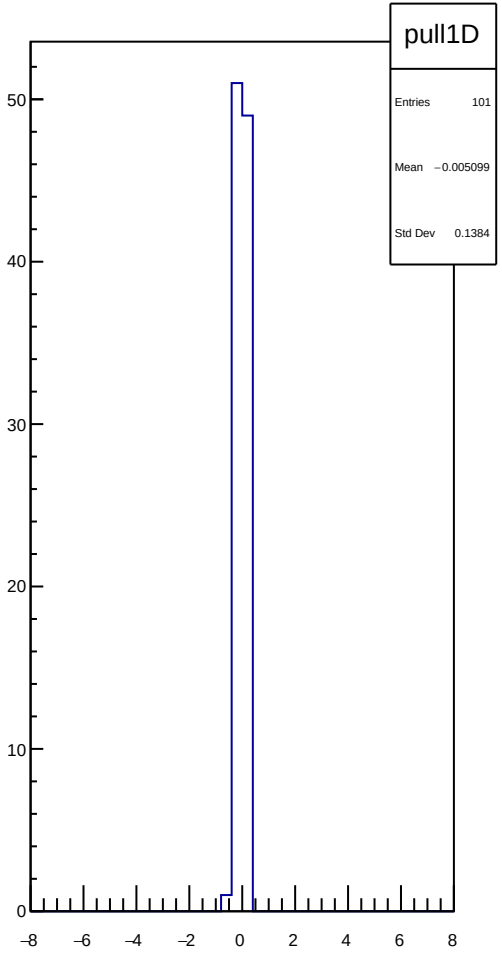

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 2.479 / 100
p0 1.343 ± 0.1698
pull
Entries 101
Mean −129.1
Std Dev 0
pull1D
Entries 101
Mean 0.005025
Std Dev 0.1566

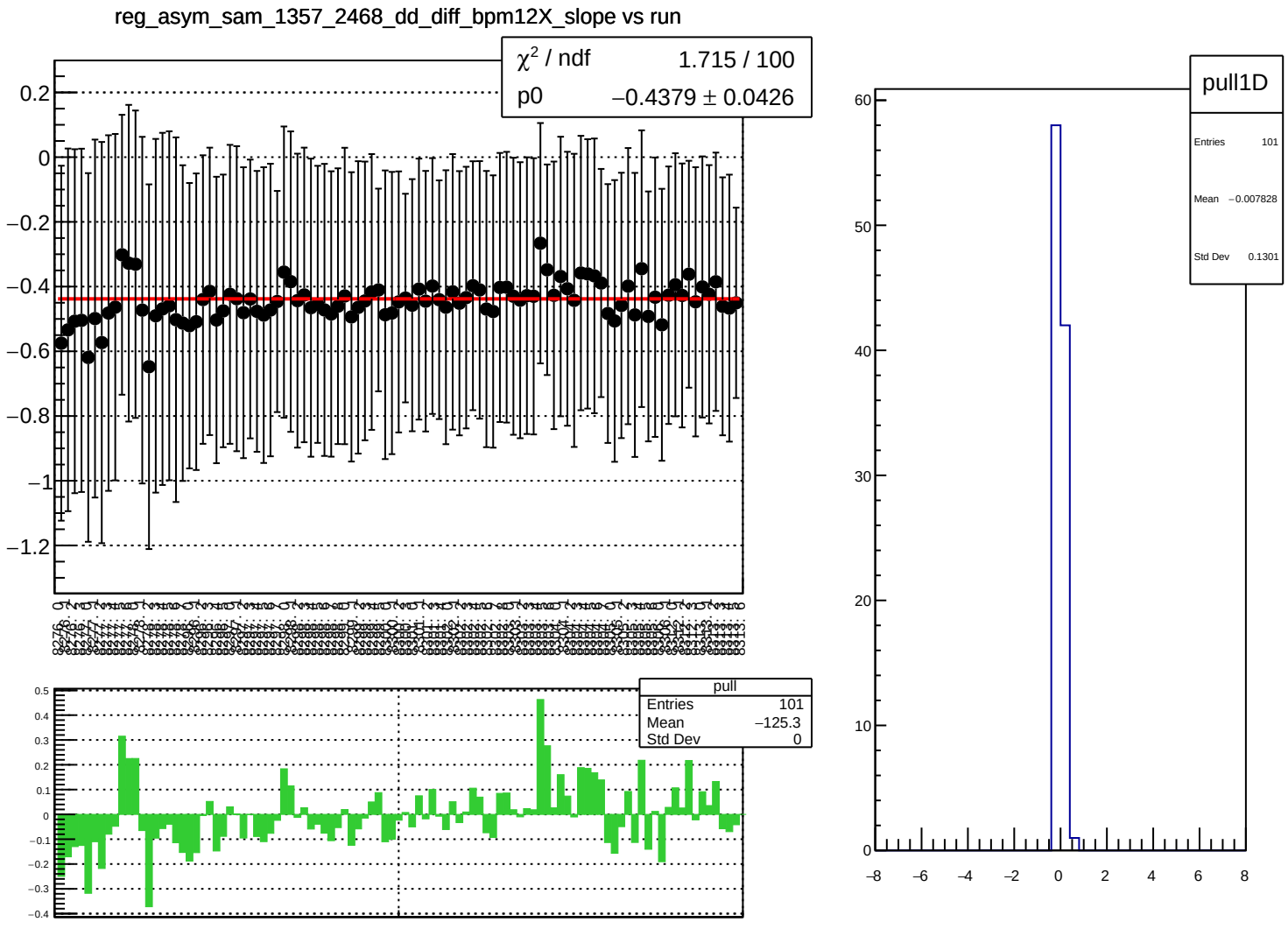

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 3.264 / 100
p0 0.9531 ± 0.3963
pull
Entries 101
Mean −1505
Std Dev 0
pull1D
Entries 101
Mean −0.002141
Std Dev 0.1798

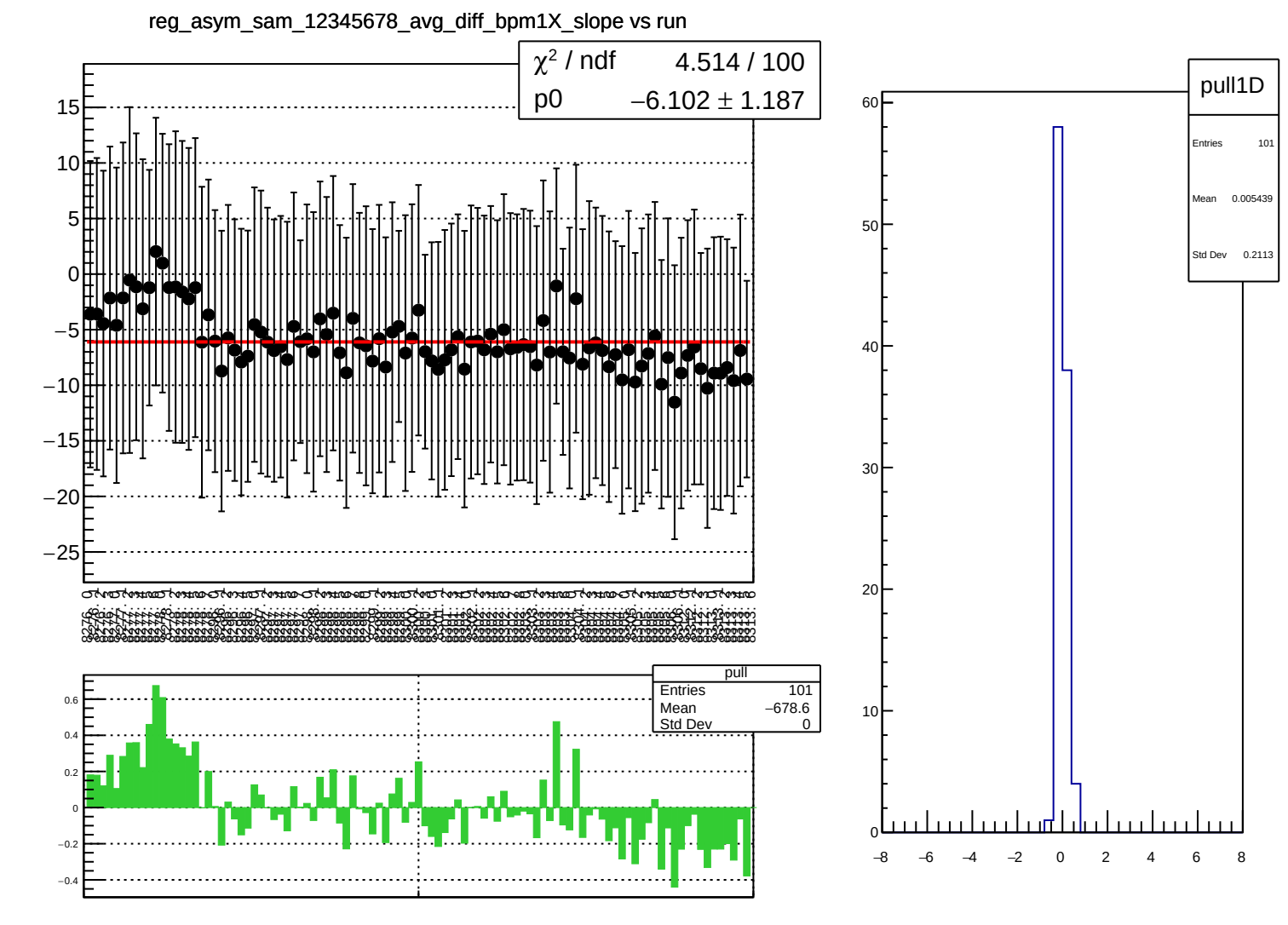

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.158 / 100
p0 2.614 ± 0.7728
15
10
5
0
−5
−10
pull
Entries 101
Mean −3506
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 101
Mean 0.000121
Std Dev 0.1071
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

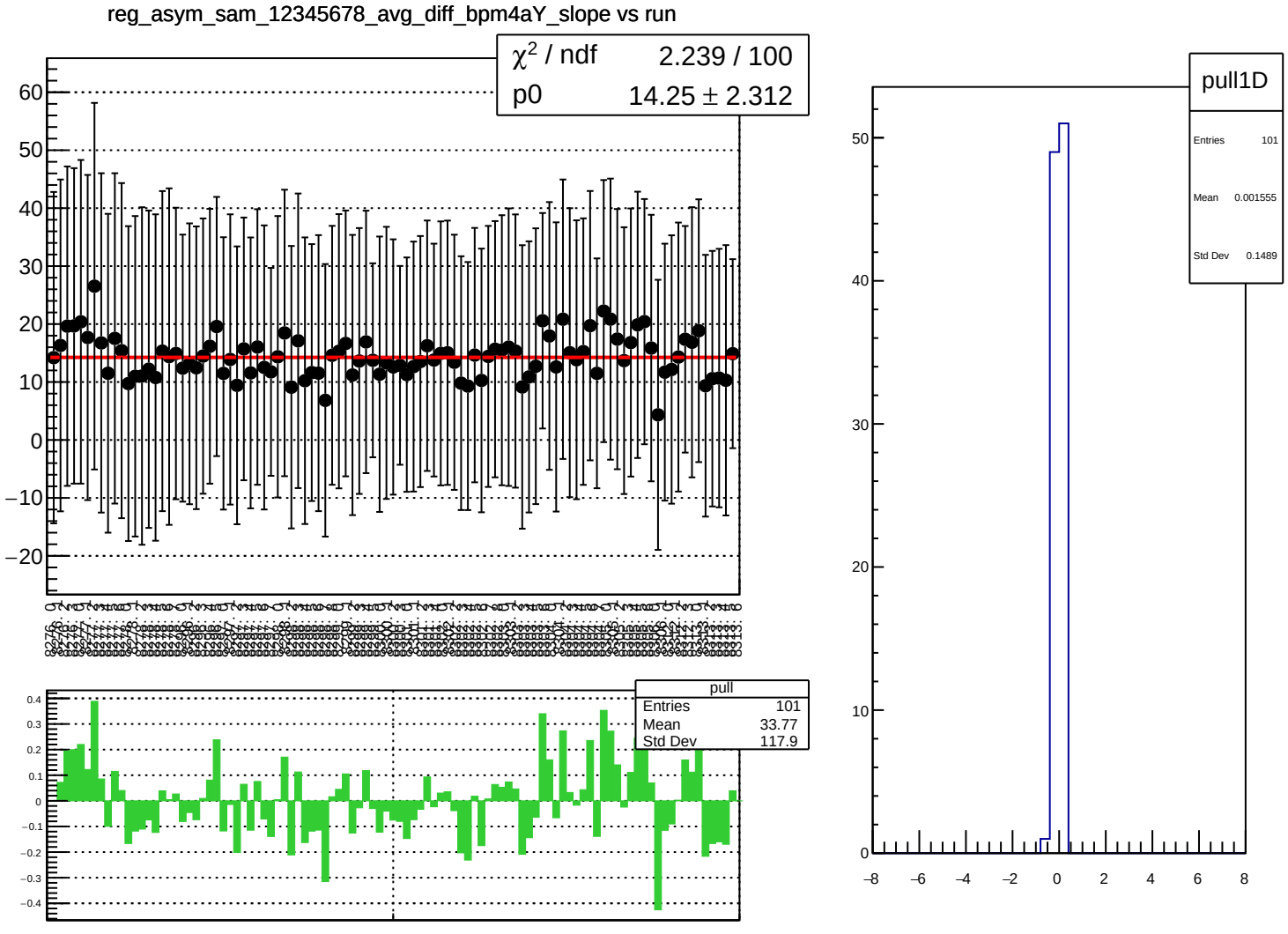

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.862 / 100
p0 20.72 ± 0.4423
pull
Entries 101
Mean −714.5
Std Dev 0
pull1D
Entries 101
Mean 0.007065
Std Dev 0.2789

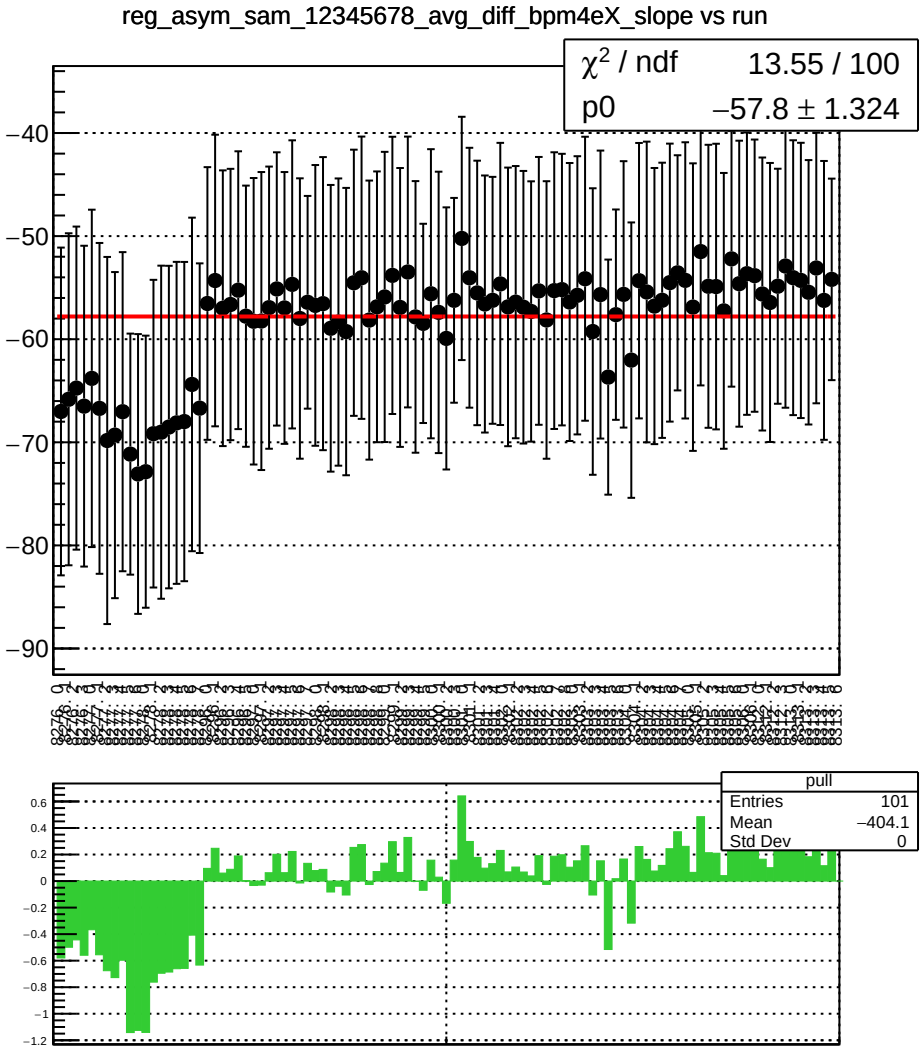

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.936 / 100
p0 −6.128 ± 0.8028
pull
Entries 101
Mean −296.7
Std Dev 0

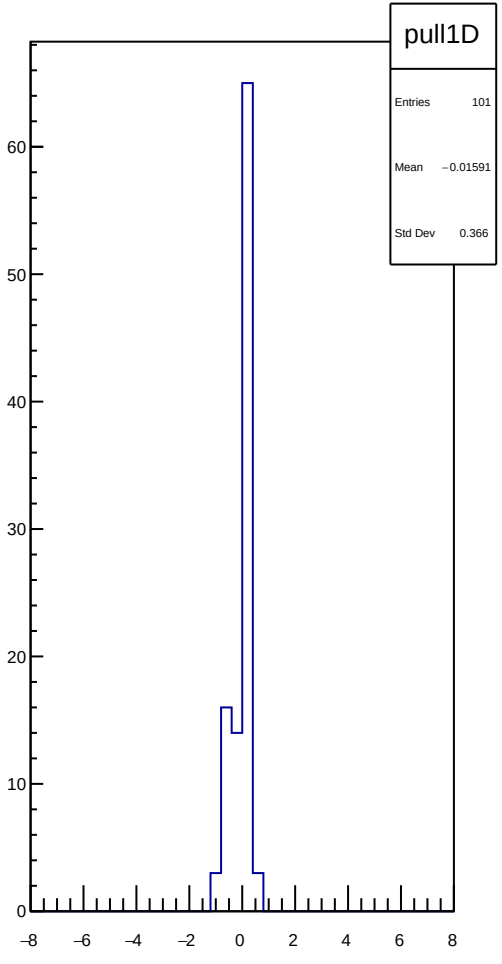

pull1D
Entries 101
Mean −0.005099
Std Dev 0.1384

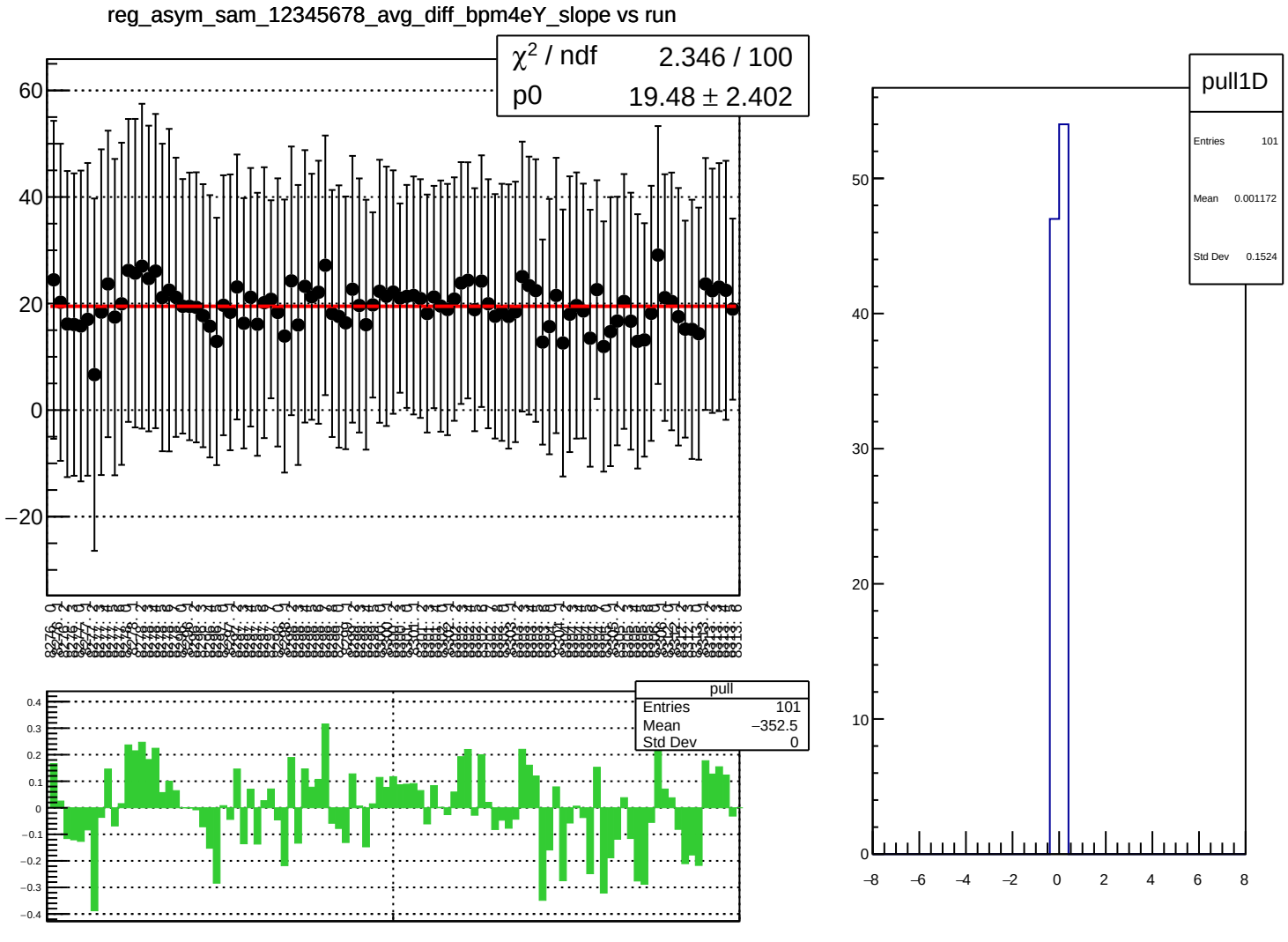

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 1.715 / 100
p0 −0.4379 ± 0.0426
pull
Entries 101
Mean −125.3
Std Dev 0
pull1D
Entries 101
Mean −0.007828
Std Dev 0.1301

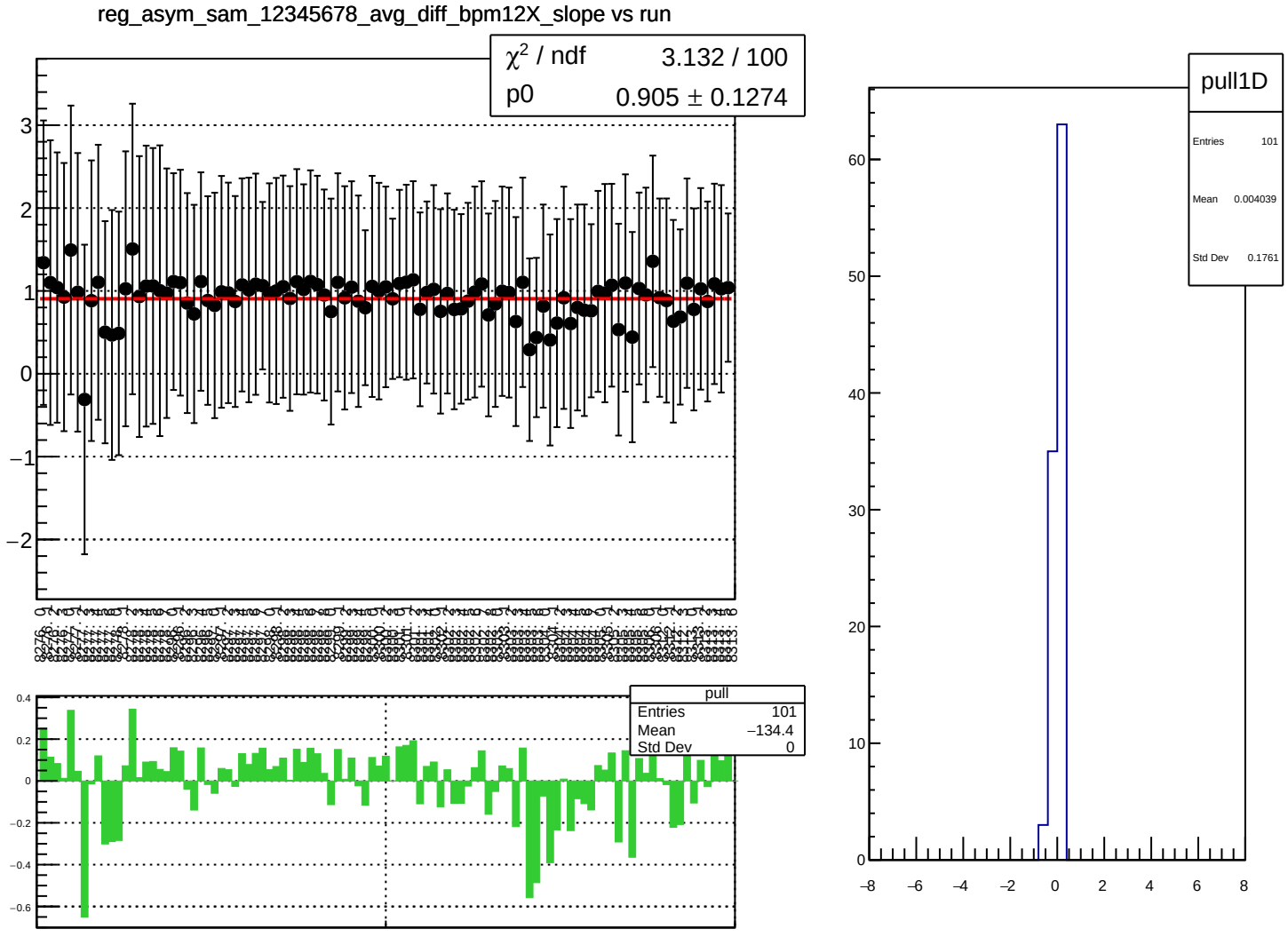

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 4.514 / 100
p0 −6.102 ± 1.187
pull
Entries 101
Mean −678.6
Std Dev 0
pull1D
Entries 101
Mean 0.005439
Std Dev 0.2113

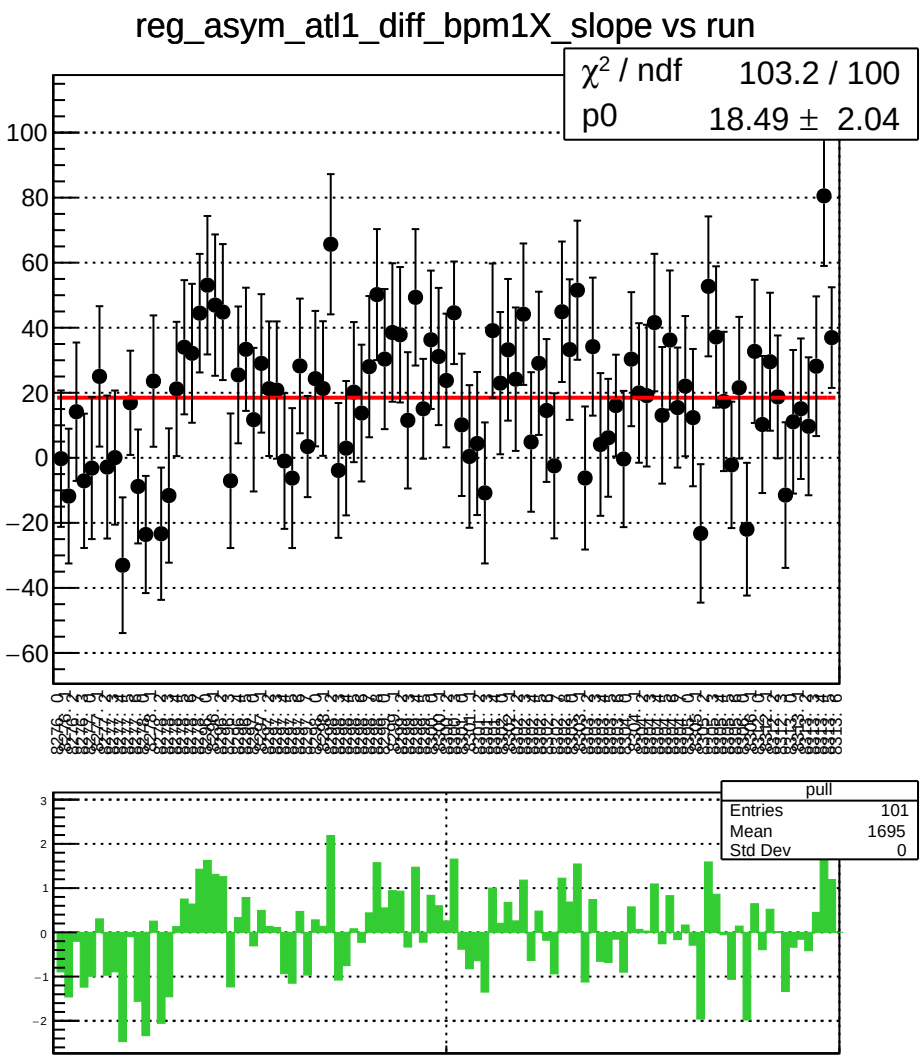

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.239 / 100
p0 14.25 ± 2.312
pull
Entries 101
Mean 33.77
Std Dev 117.9
pull1D
Entries 101
Mean 0.001555
Std Dev 0.1489

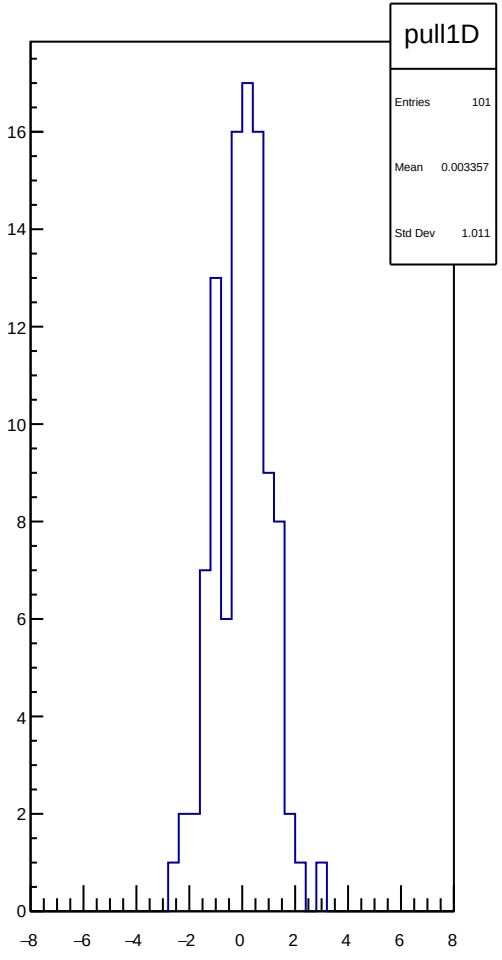

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 13.55 / 100
p0 −57.8 ± 1.324
−40
−50
−60
−70
−80
−90
pull
Entries 101
Mean −404.1
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

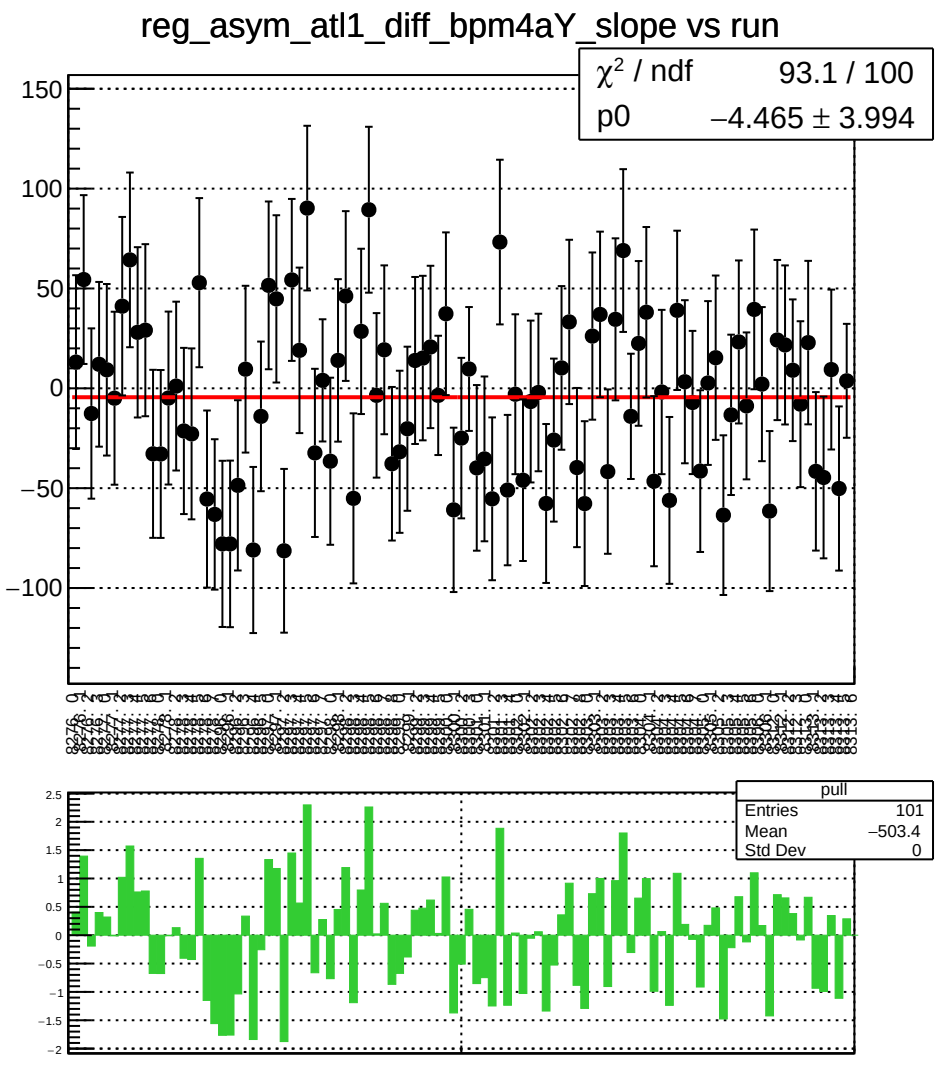

pull1D
Entries 101
Mean −0.01591
Std Dev 0.366
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

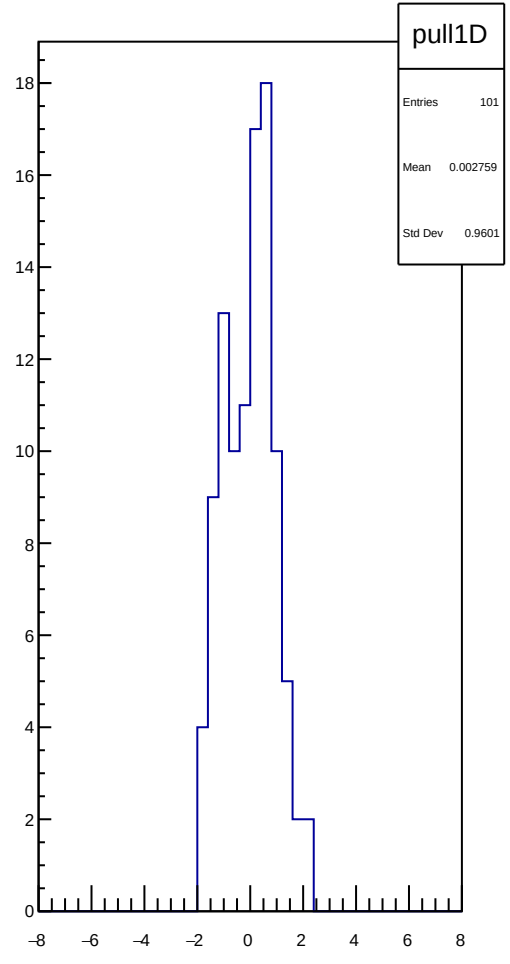

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.346 / 100
p0 19.48 ± 2.402
pull
Entries 101
Mean −352.5
Std Dev 0
pull1D
Entries 101
Mean 0.001172
Std Dev 0.1524

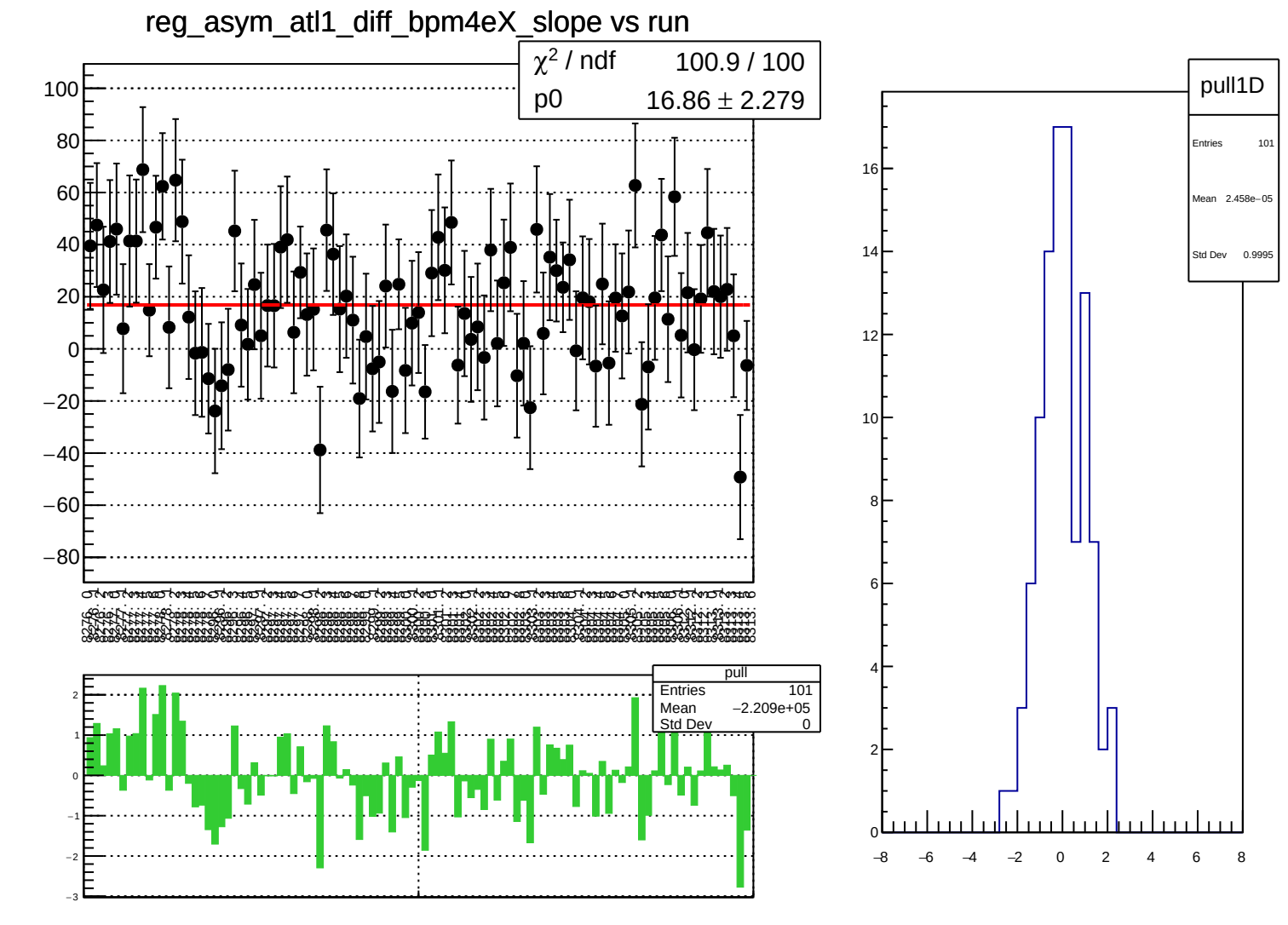

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 3.132 / 100
p0 0.905 ± 0.1274
pull
Entries 101
Mean −134.4
Std Dev 0
pull1D
Entries 101
Mean 0.004039
Std Dev 0.1761

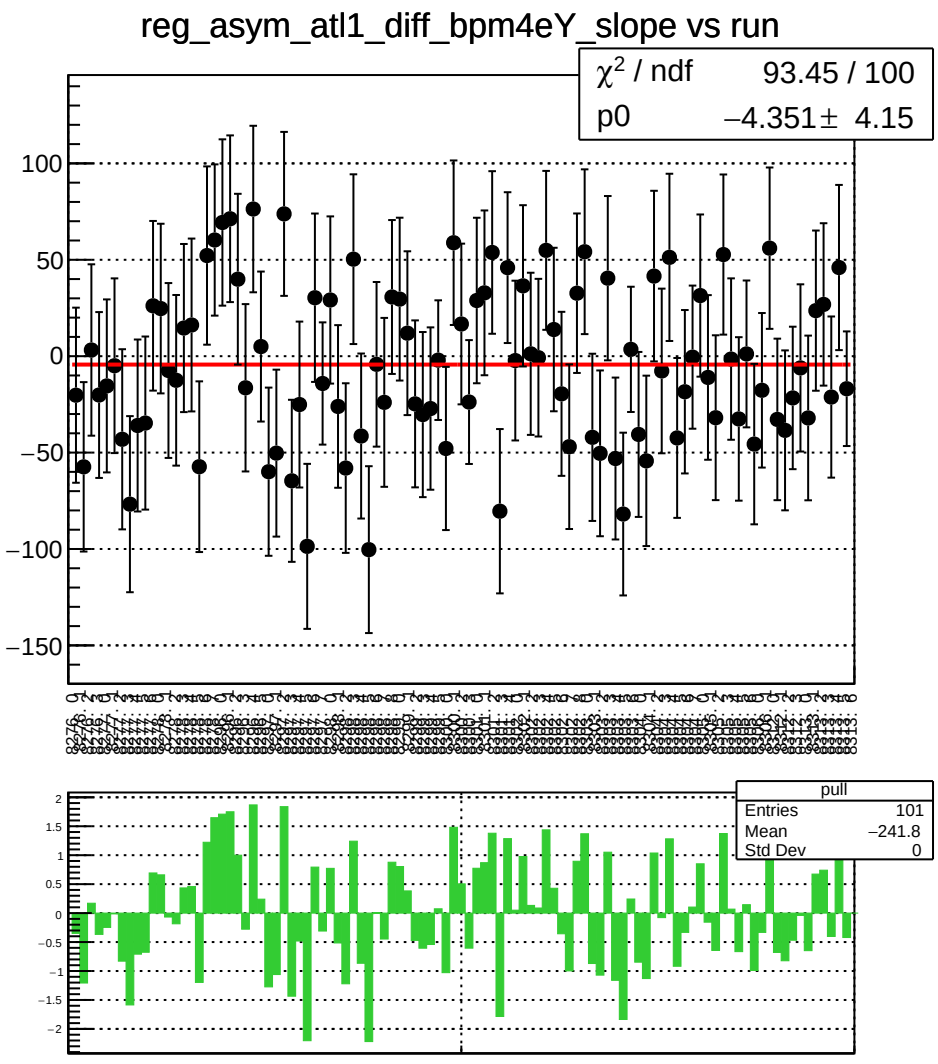

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 103.2 / 100
p0 18.49 ± 2.04
pull
Entries 101
Mean 1695
Std Dev 0

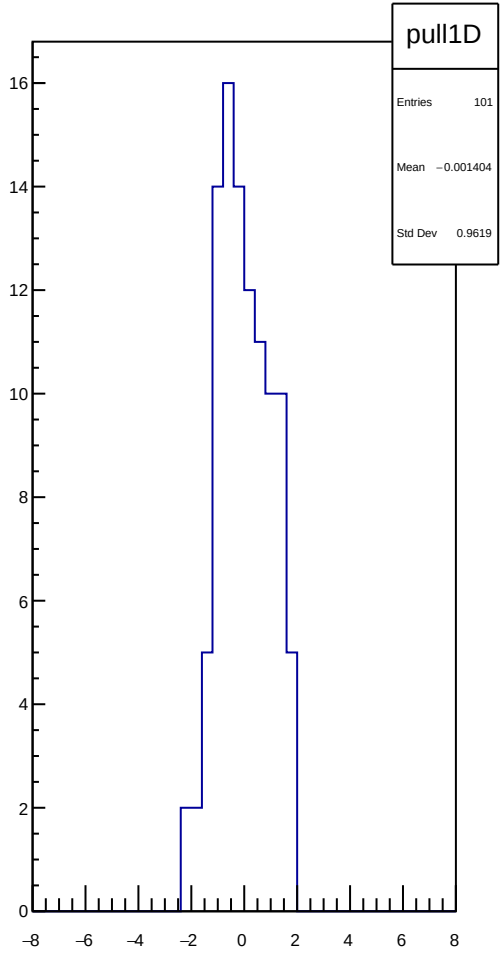

pull1D
Entries 101
Mean 0.003357
Std Dev 1.011

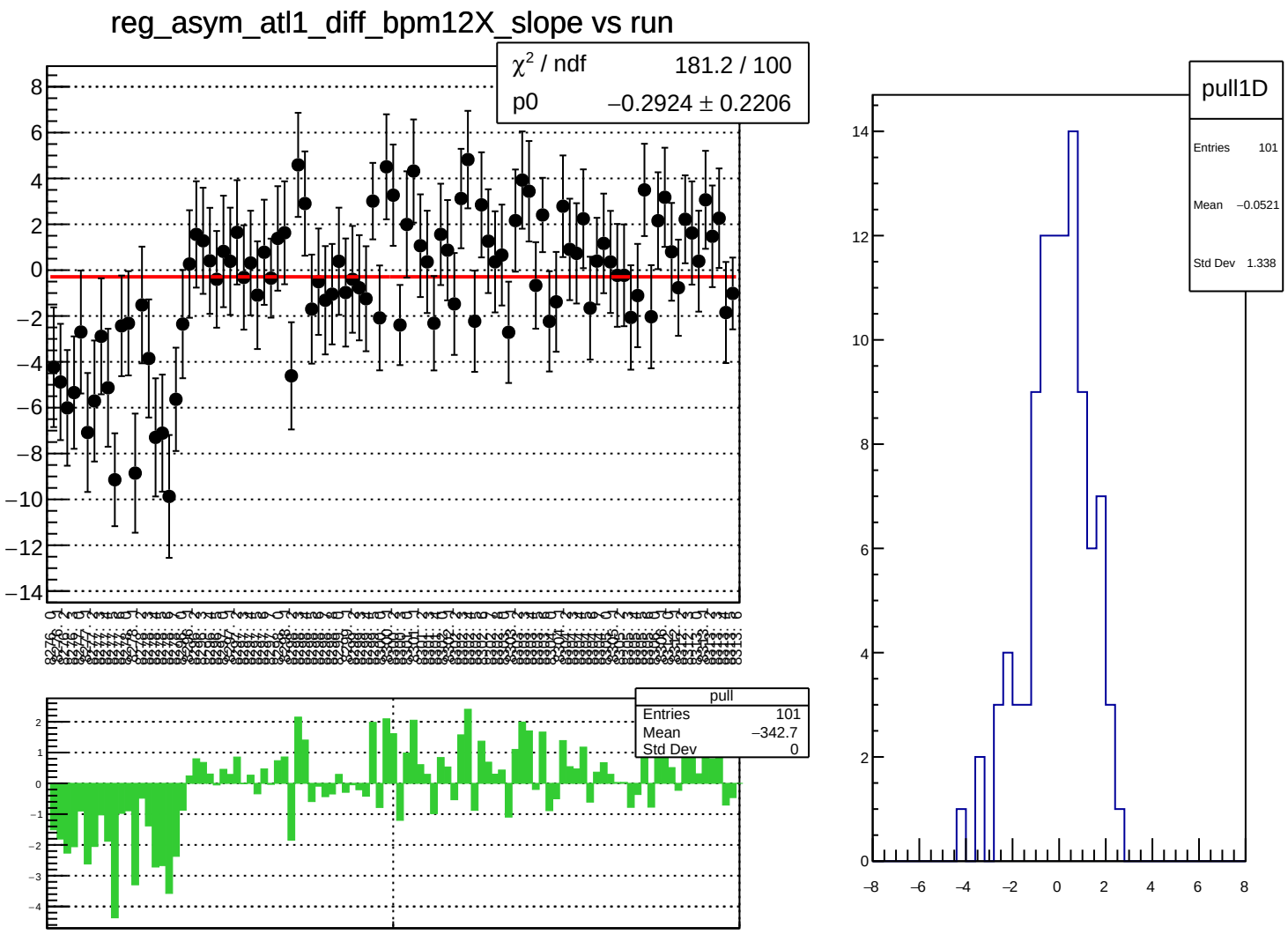

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 93.1 / 100
p0 −4.465 ± 3.994
150
100
50
0
−50
−100
pull
Entries 101
Mean −503.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

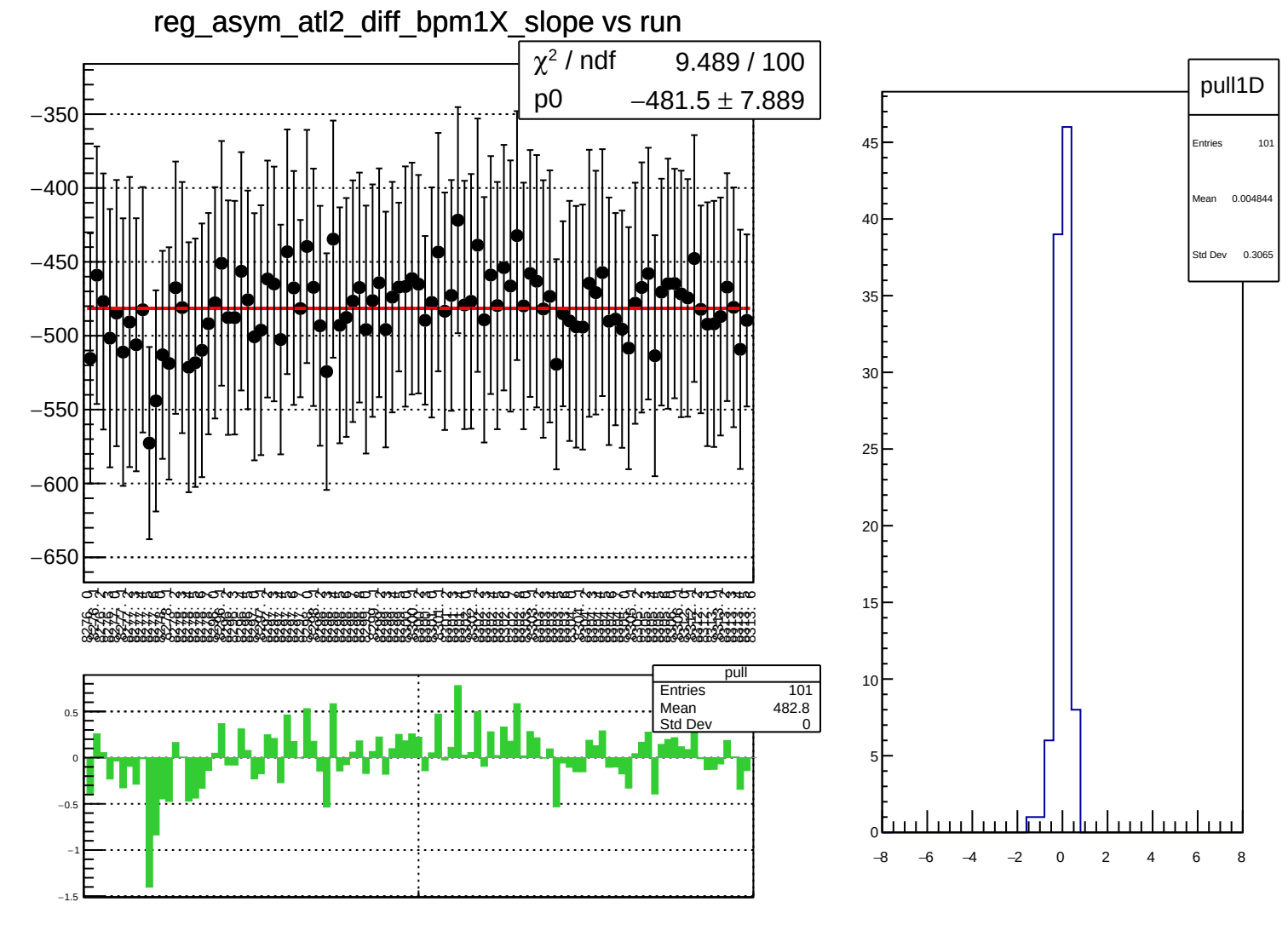

pull1D
Entries 101
Mean 0.002759
Std Dev 0.9601
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

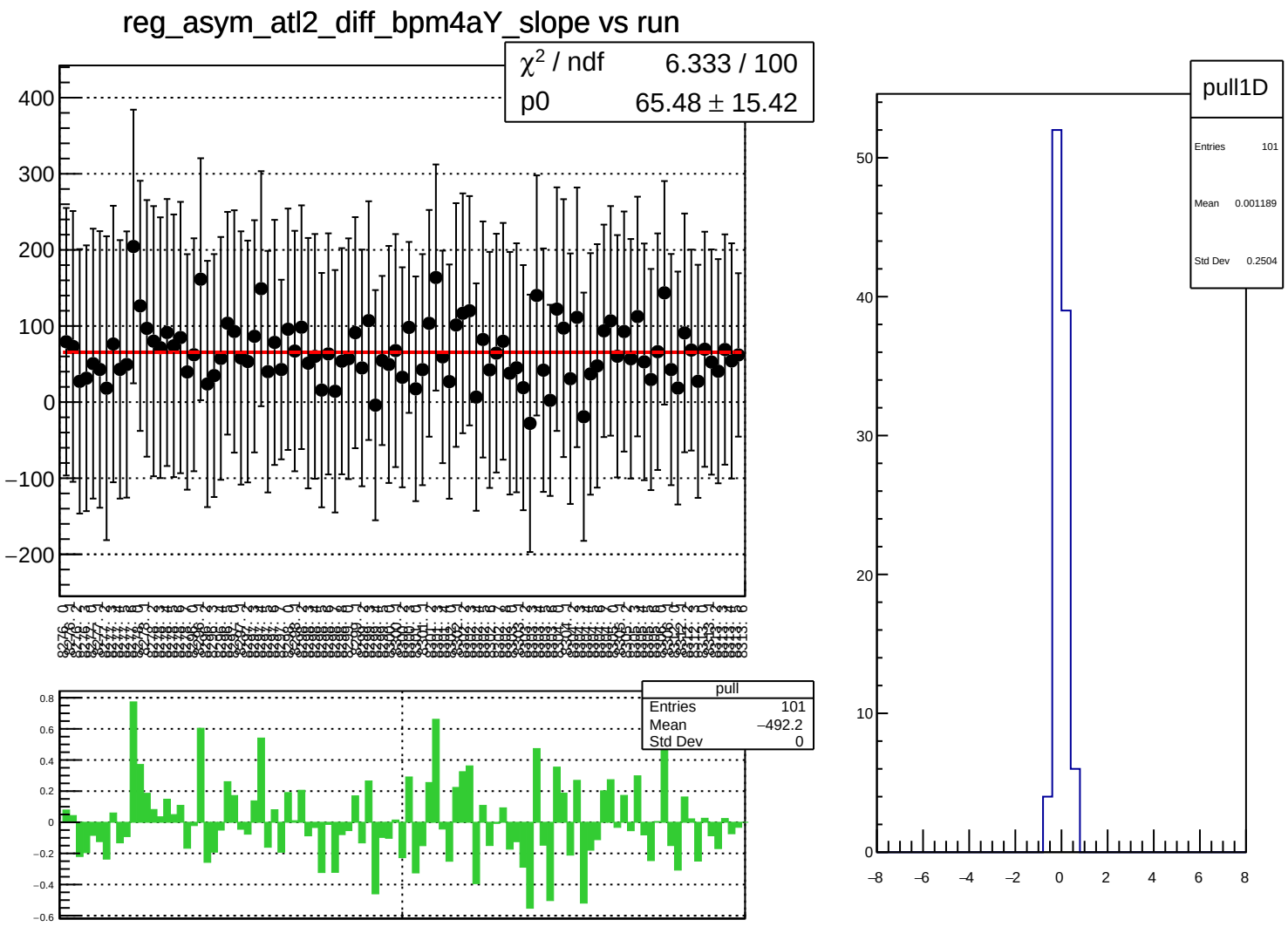

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 100.9 / 100
p0 16.86 ± 2.279
pull
Entries 101
Mean −2.209e+05
Std Dev 0
pull1D
Entries 101
Mean 2.458e−05
Std Dev 0.9995

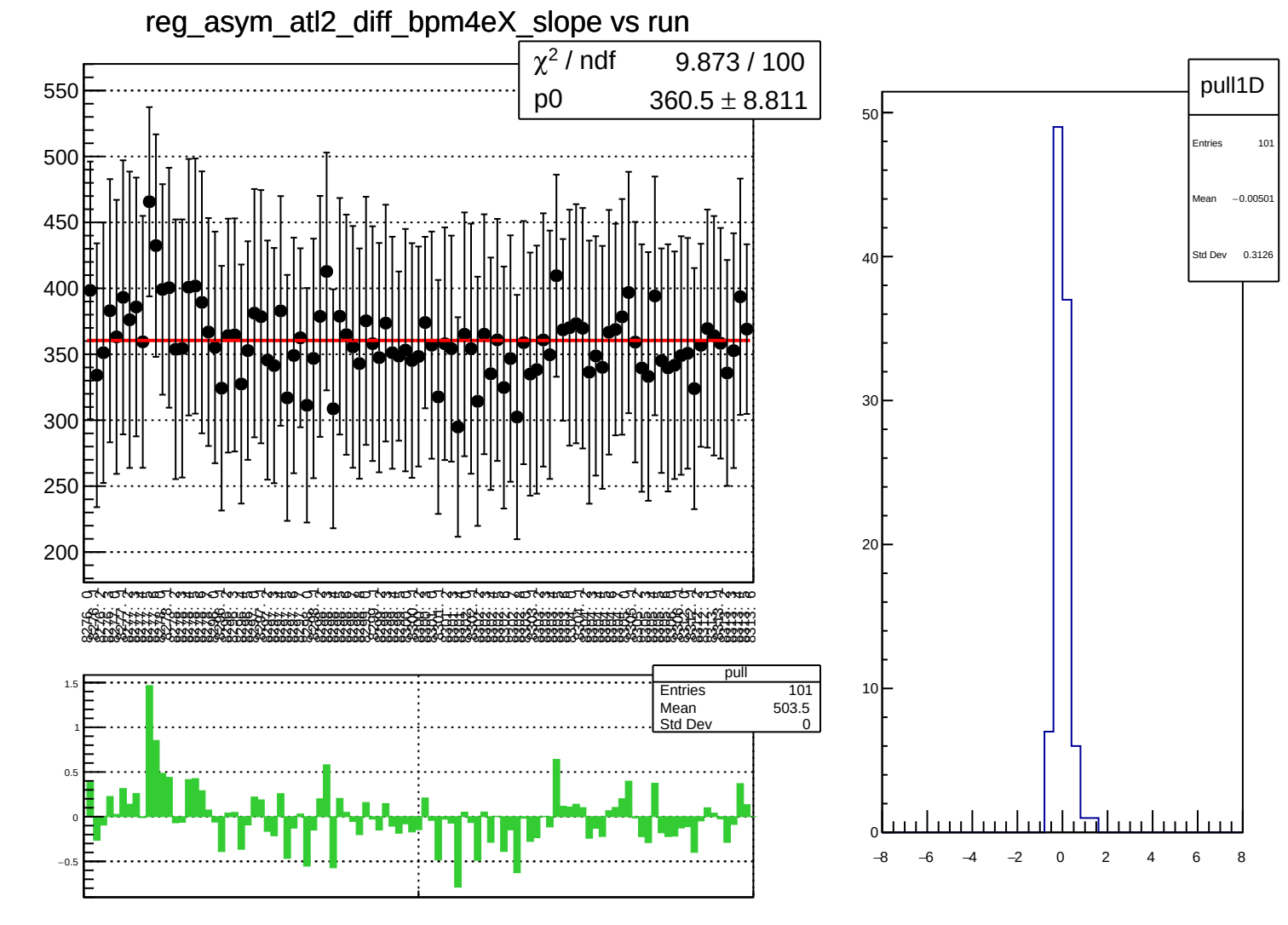

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 93.45 / 100
p0 −4.351 ± 4.15
100
50
0
−50
−100
−150
pull
Entries 101
Mean −241.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

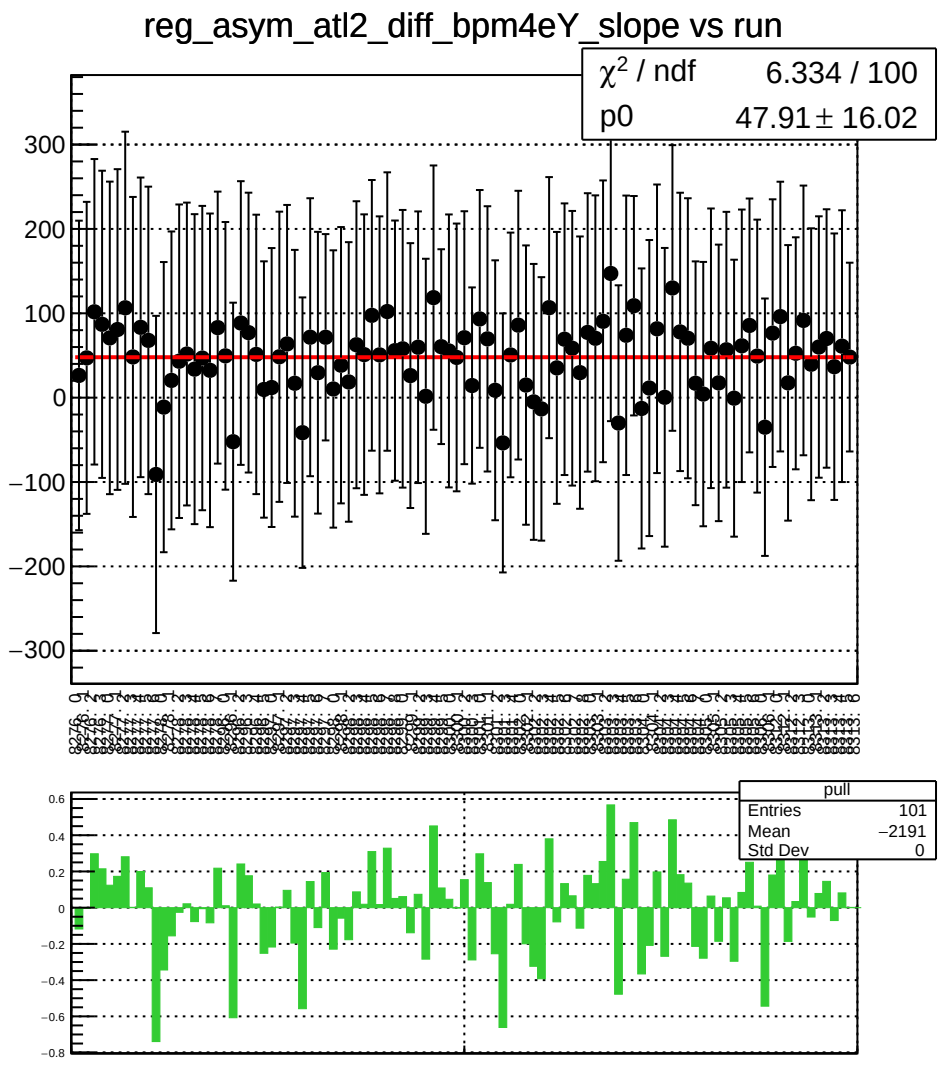

pull1D
Entries 101
Mean −0.001404
Std Dev 0.9619
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

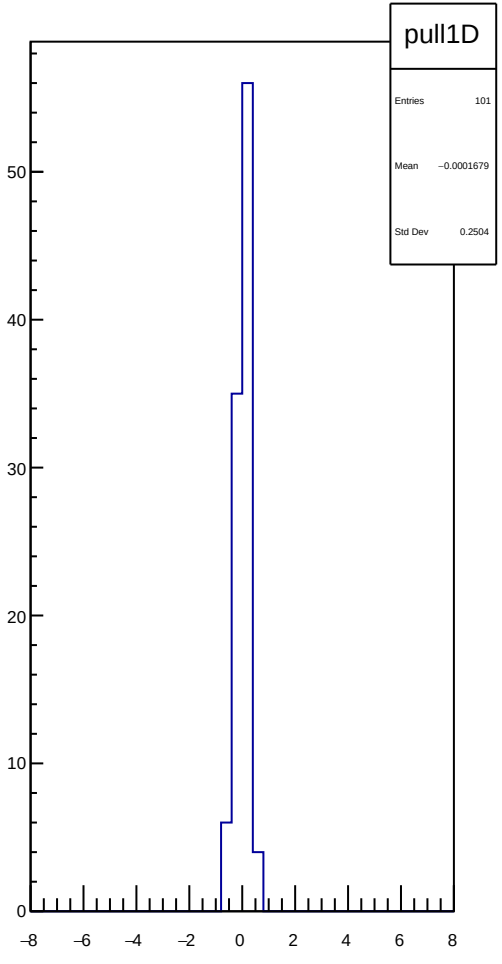

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 181.2 / 100
p0 −0.2924 ± 0.2206
pull
Entries 101
Mean −342.7
Std Dev 0
pull1D
Entries 101
Mean −0.0521
Std Dev 1.338

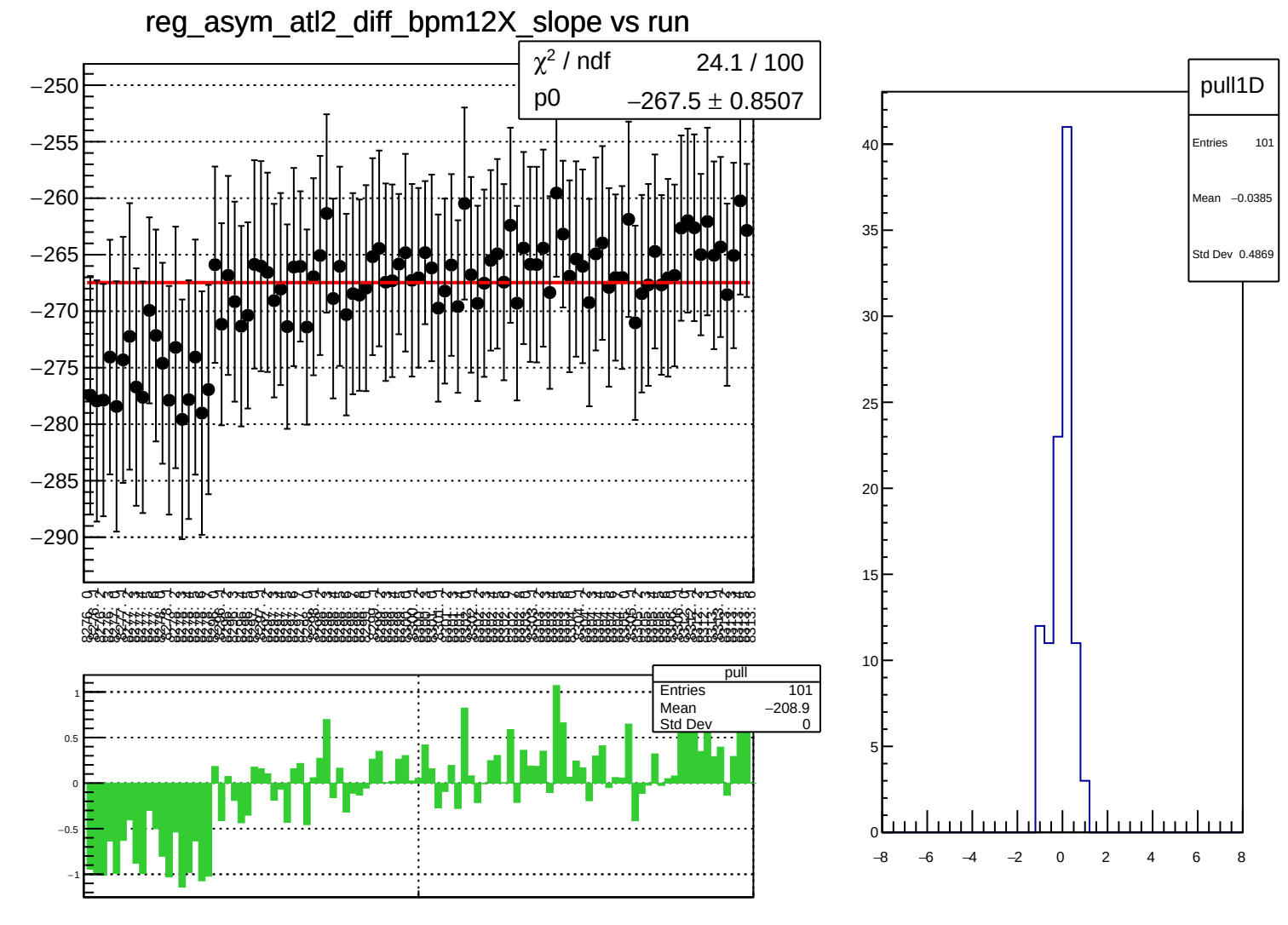

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 9.489 / 100
p0 −481.5 ± 7.889
−350
−400
−450
−500
−550
−600
−650
pull
Entries 101
Mean 482.8
Std Dev 0
0.5
0
−0.5
−1
−1.5
pull1D
Entries 101
Mean 0.004844
Std Dev 0.3065
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

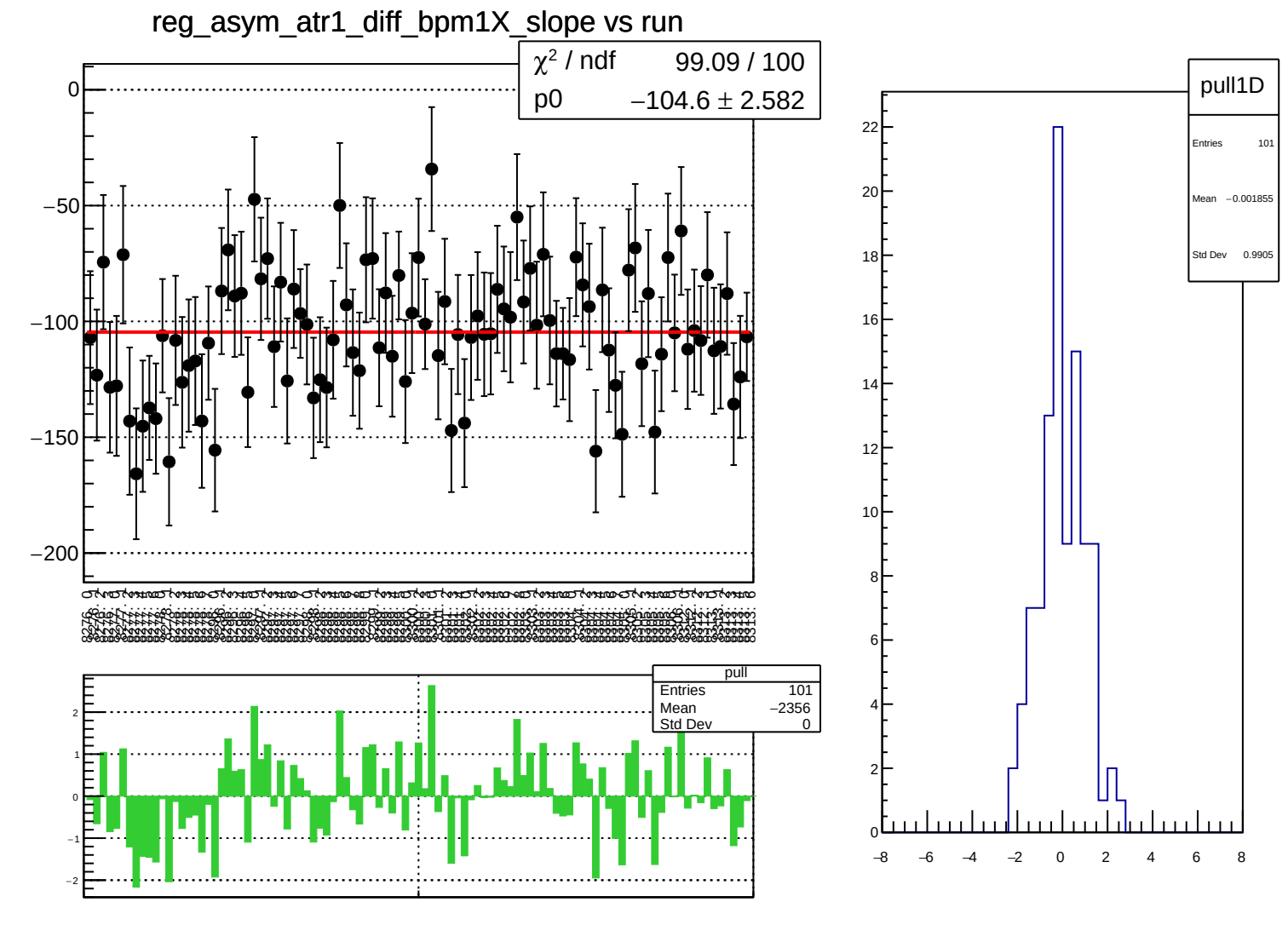

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 6.333 / 100
p0 65.48 ± 15.42
pull
Entries 101
Mean −492.2
Std Dev 0
pull1D
Entries 101
Mean 0.001189
Std Dev 0.2504

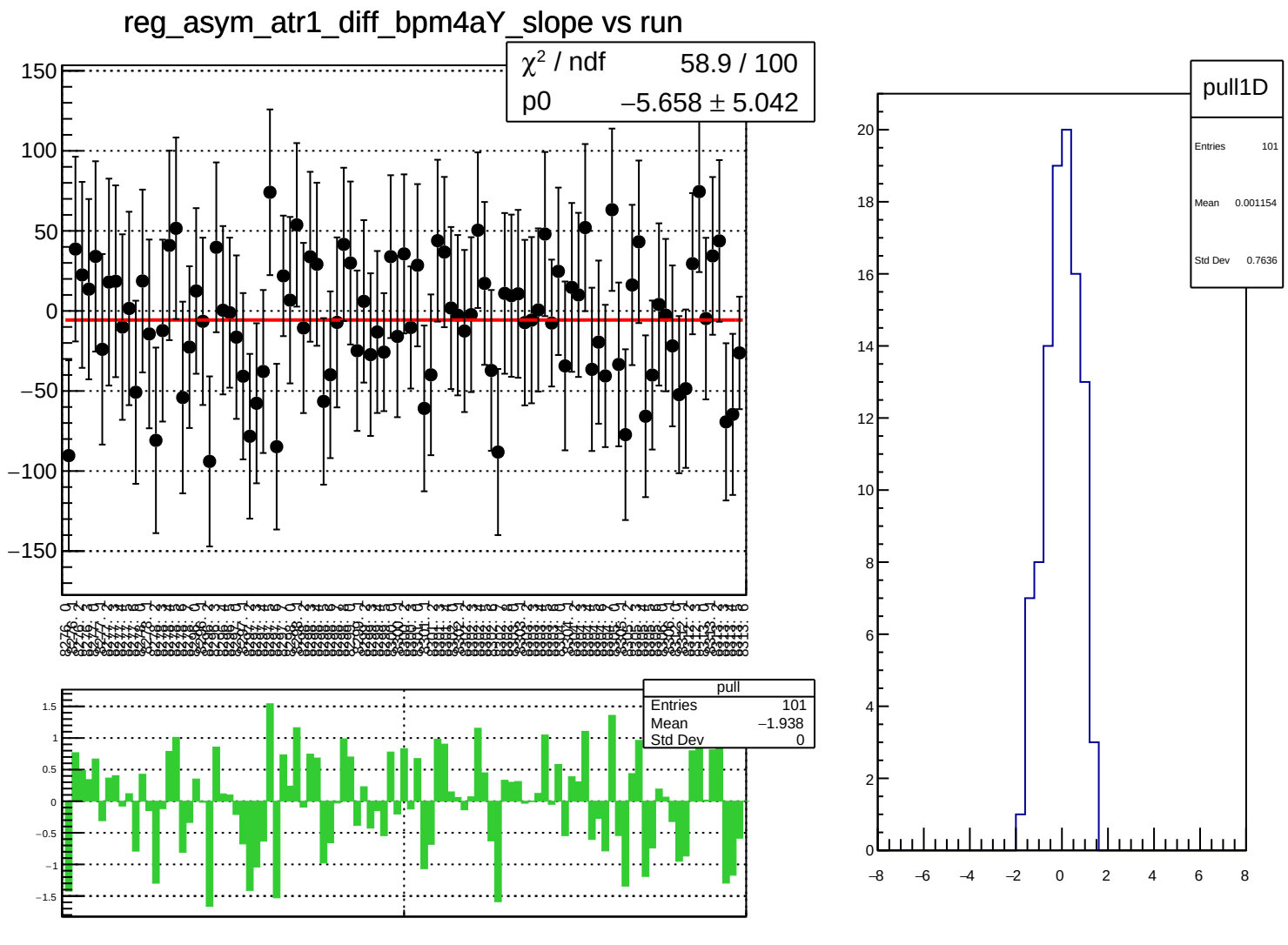

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 9.873 / 100
p0 360.5 ± 8.811
pull
Entries 101
Mean 503.5
Std Dev 0
pull1D
Entries 101
Mean −0.00501
Std Dev 0.3126

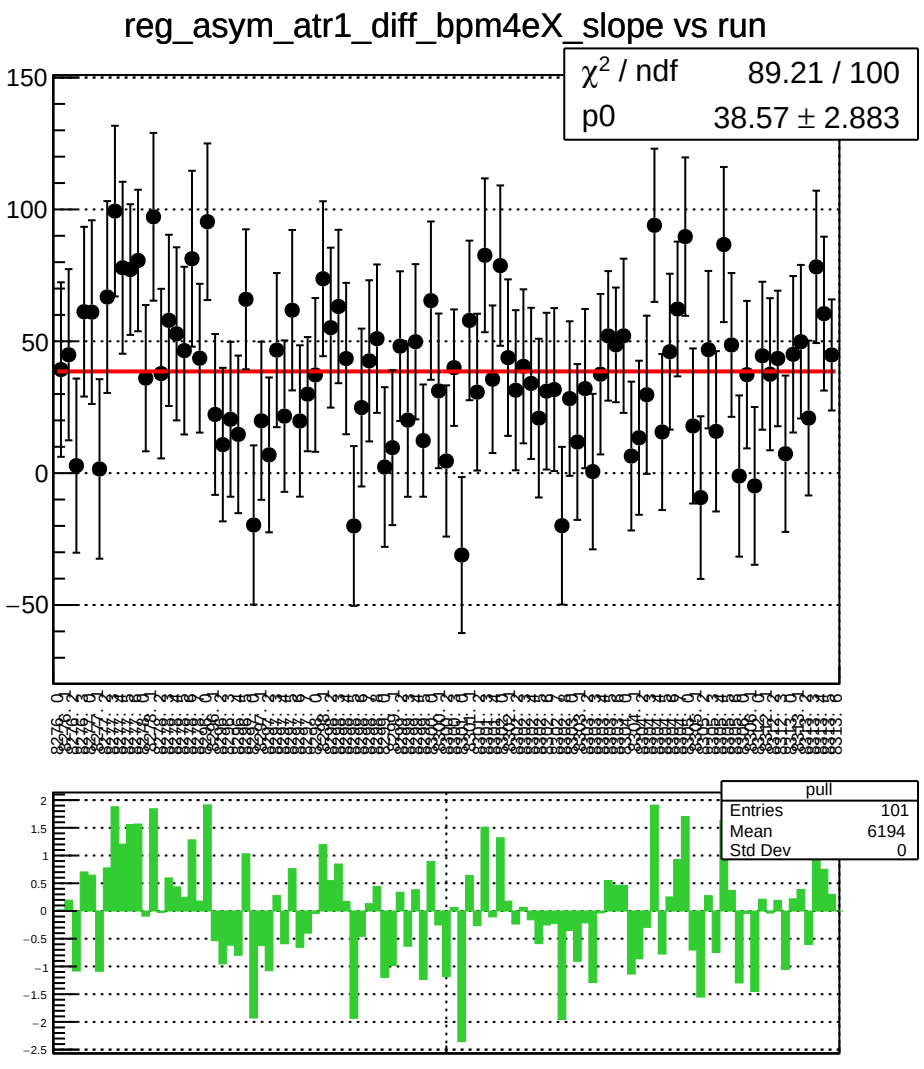

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 6.334 / 100
p0 47.91 ± 16.02
pull
Entries 101
Mean −2191
Std Dev 0

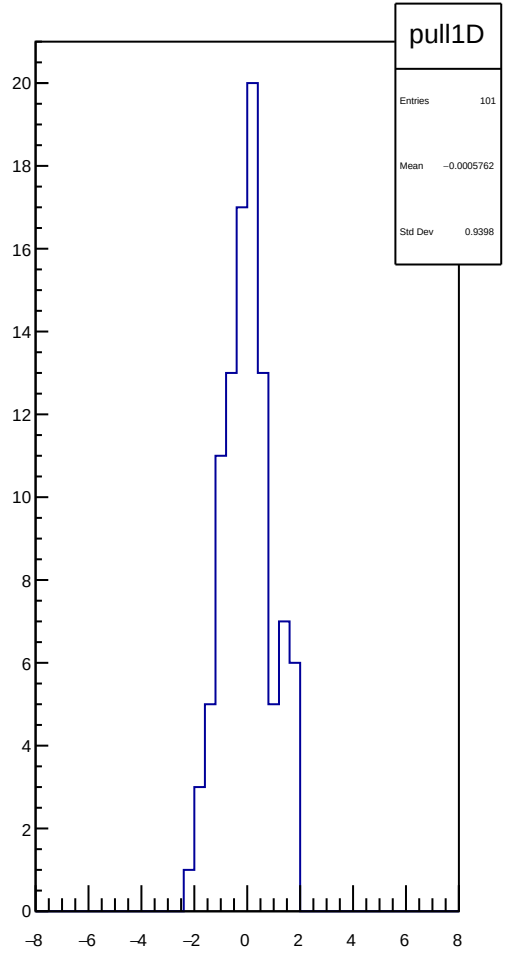

pull1D
Entries 101
Mean −0.0001679
Std Dev 0.2504


reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 24.1 / 100
p0 −267.5 ± 0.8507
pull
Entries 101
Mean −208.9
Std Dev 0
pull1D
Entries 101
Mean −0.0385
Std Dev 0.4869


reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 99.09 / 100
p0 −104.6 ± 2.582
0
−50
−100
−150
−200
pull
Entries 101
Mean −2356
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.001855
Std Dev 0.9905
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 58.9 / 100
p0 −5.658 ± 5.042
pull
Entries 101
Mean −1.938
Std Dev 0
pull1D
Entries 101
Mean 0.001154
Std Dev 0.7636


reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 89.21 / 100
p0 38.57 ± 2.883
150
100
50
0
−50
pull
Entries 101
Mean 6194
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 101
Mean −0.0005762
Std Dev 0.9398
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
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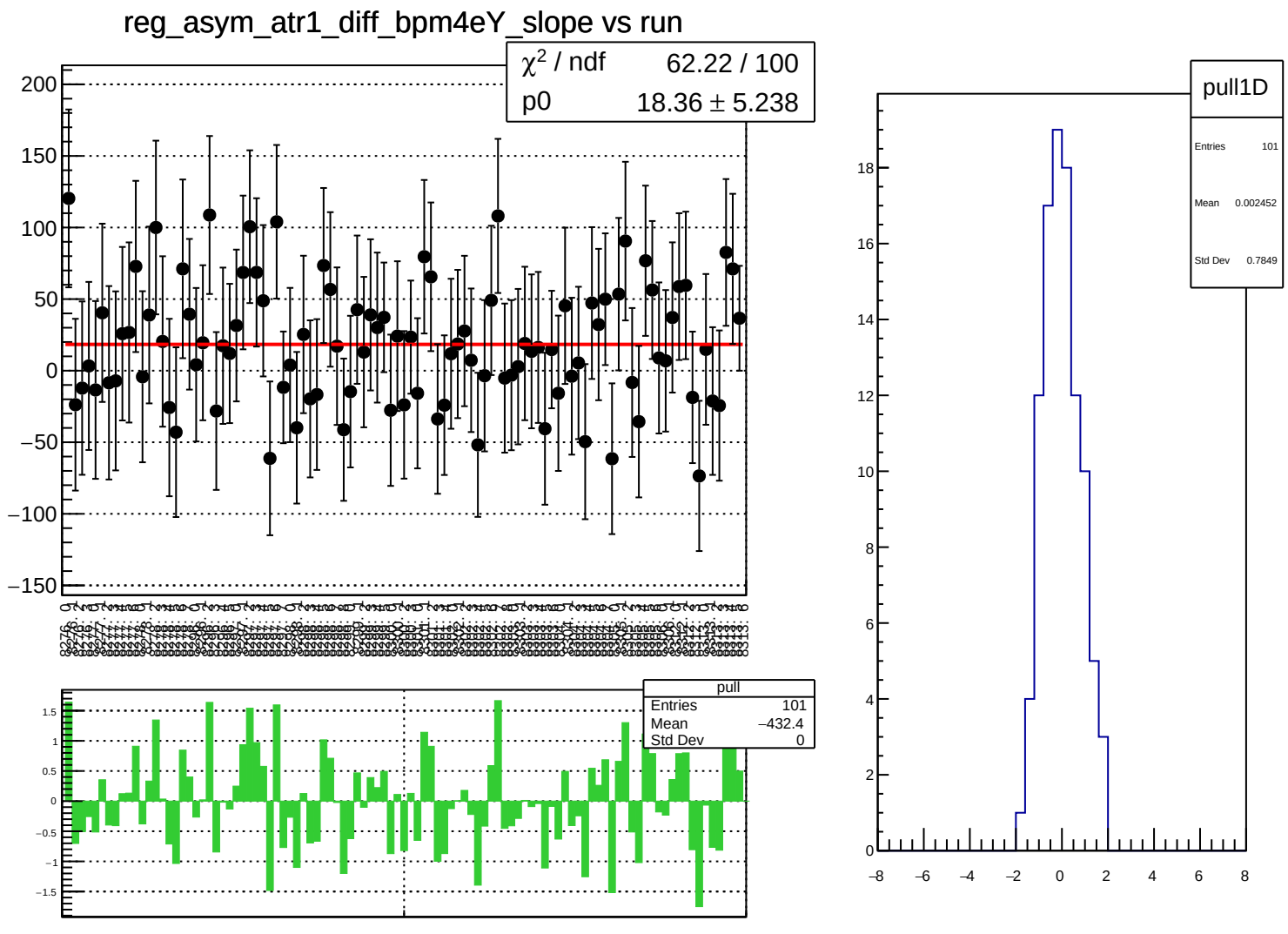
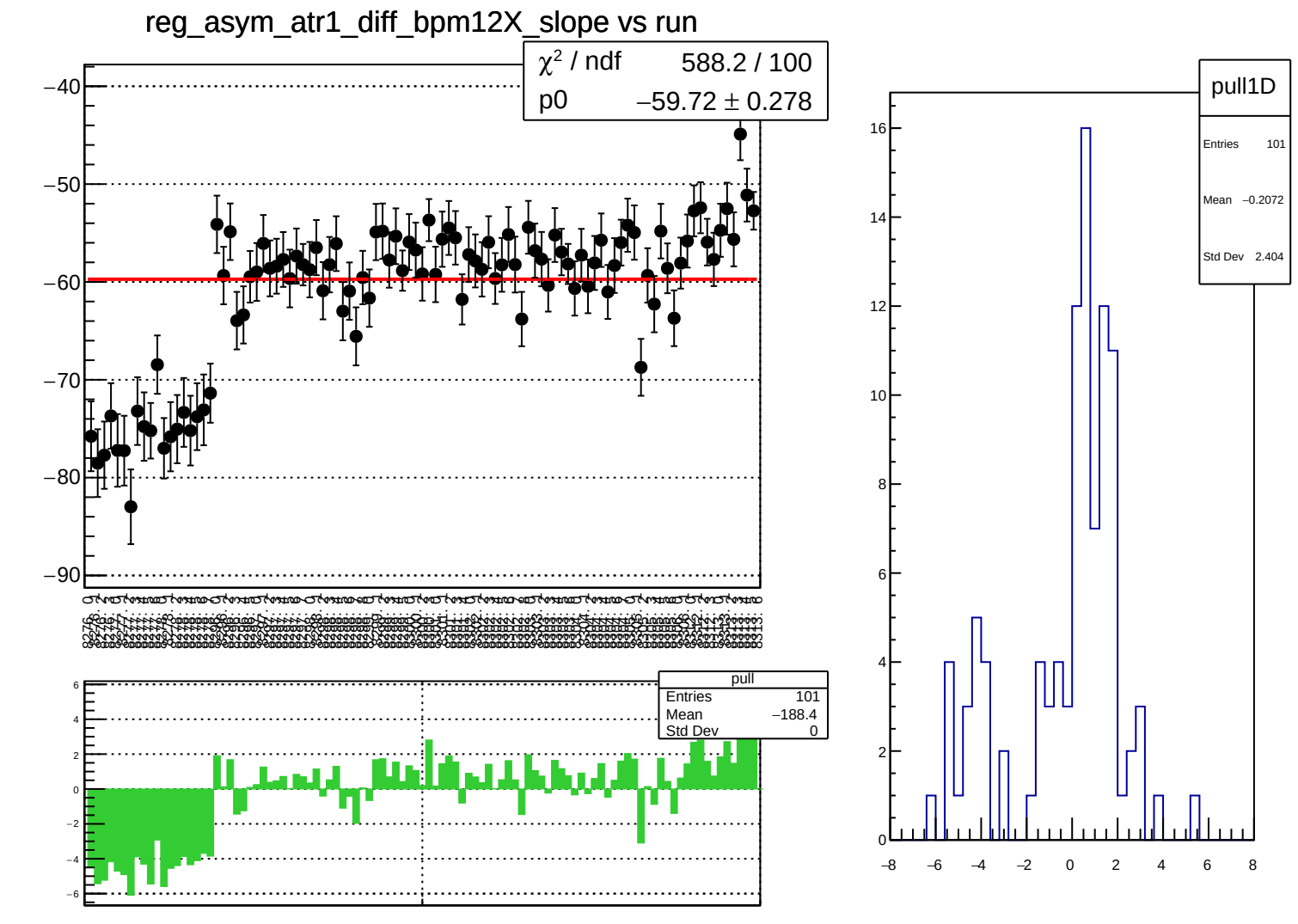
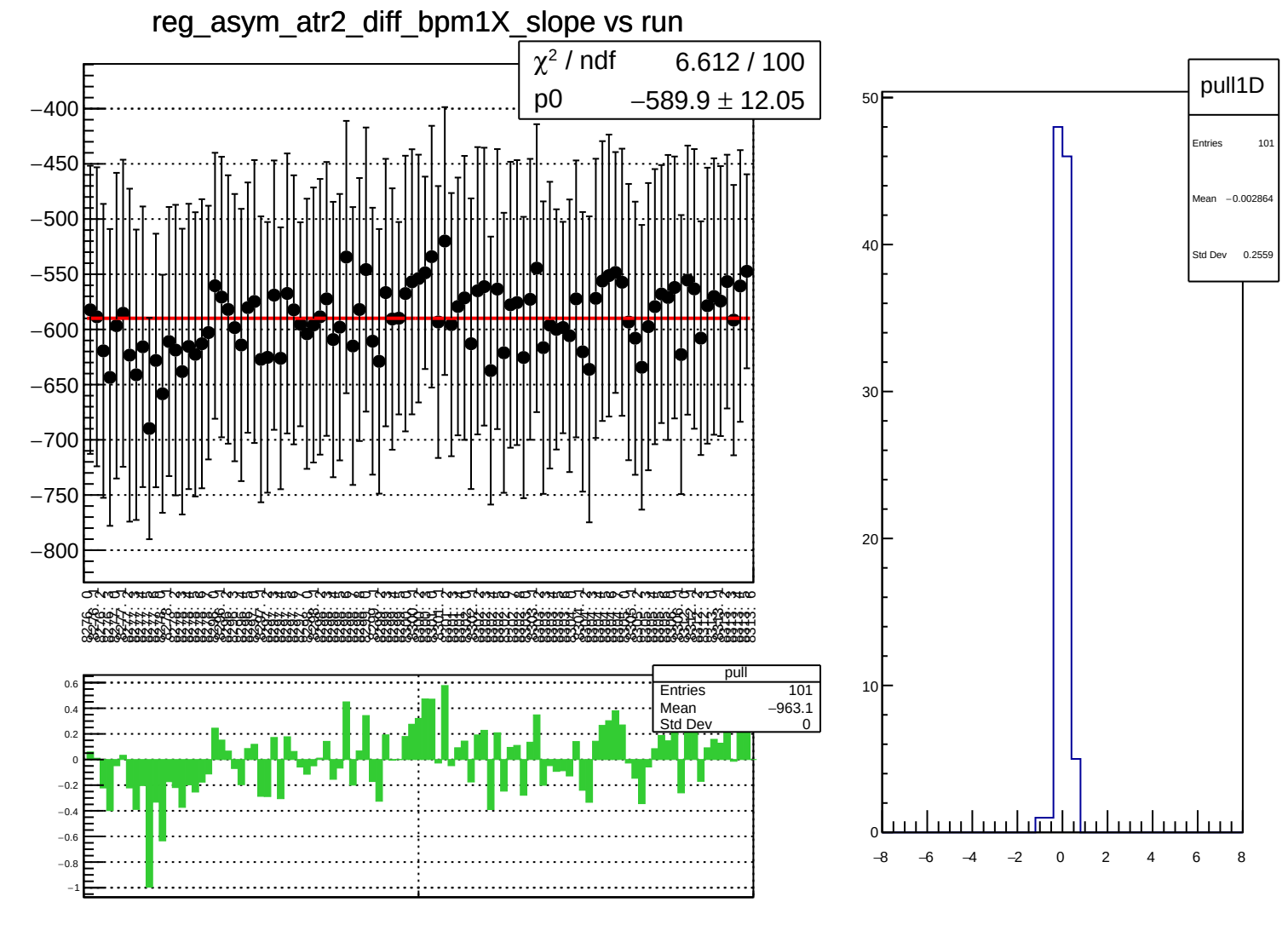
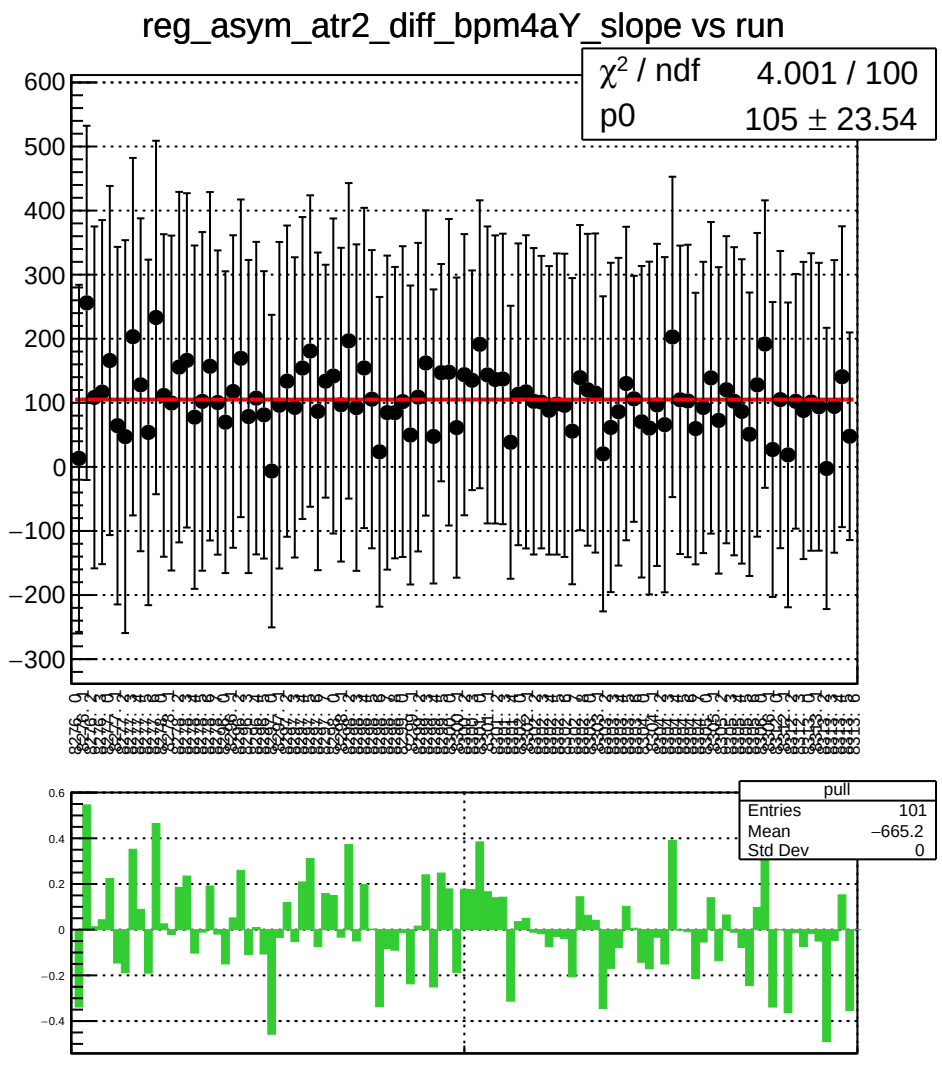
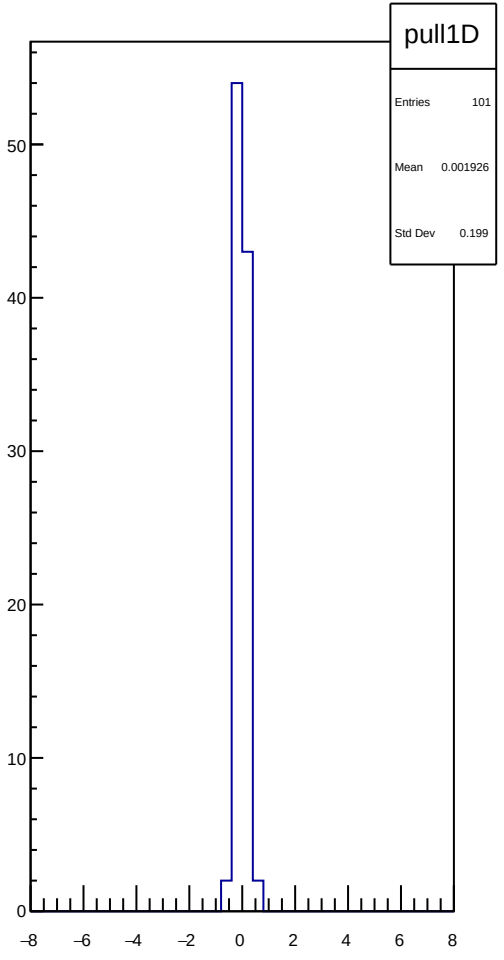
0
2
4
6
8

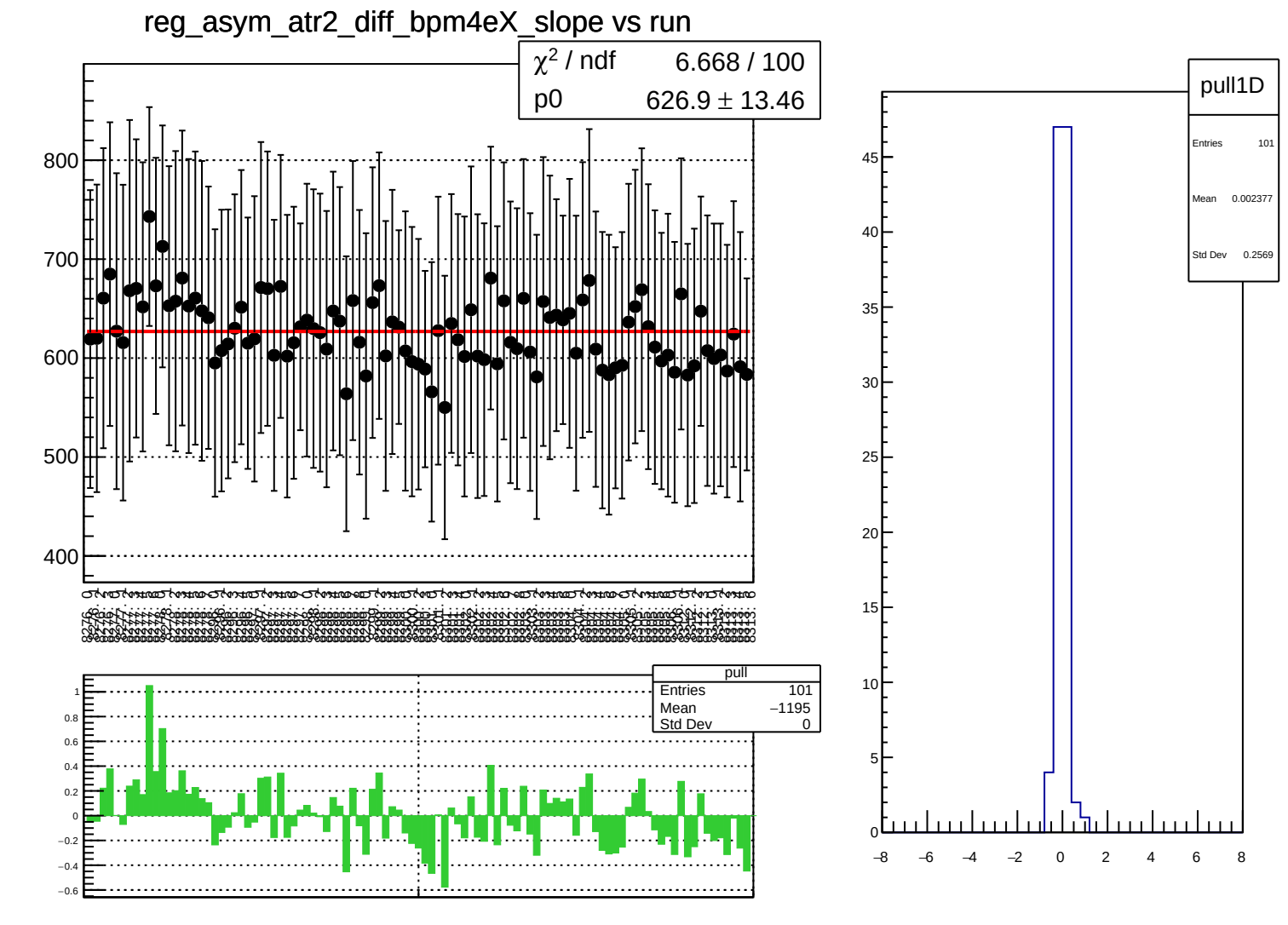

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 62.22 / 100
p0 18.36 ± 5.238
pull
Entries 101
Mean −432.4
Std Dev 0
pull1D
Entries 101
Mean 0.002452
Std Dev 0.7849

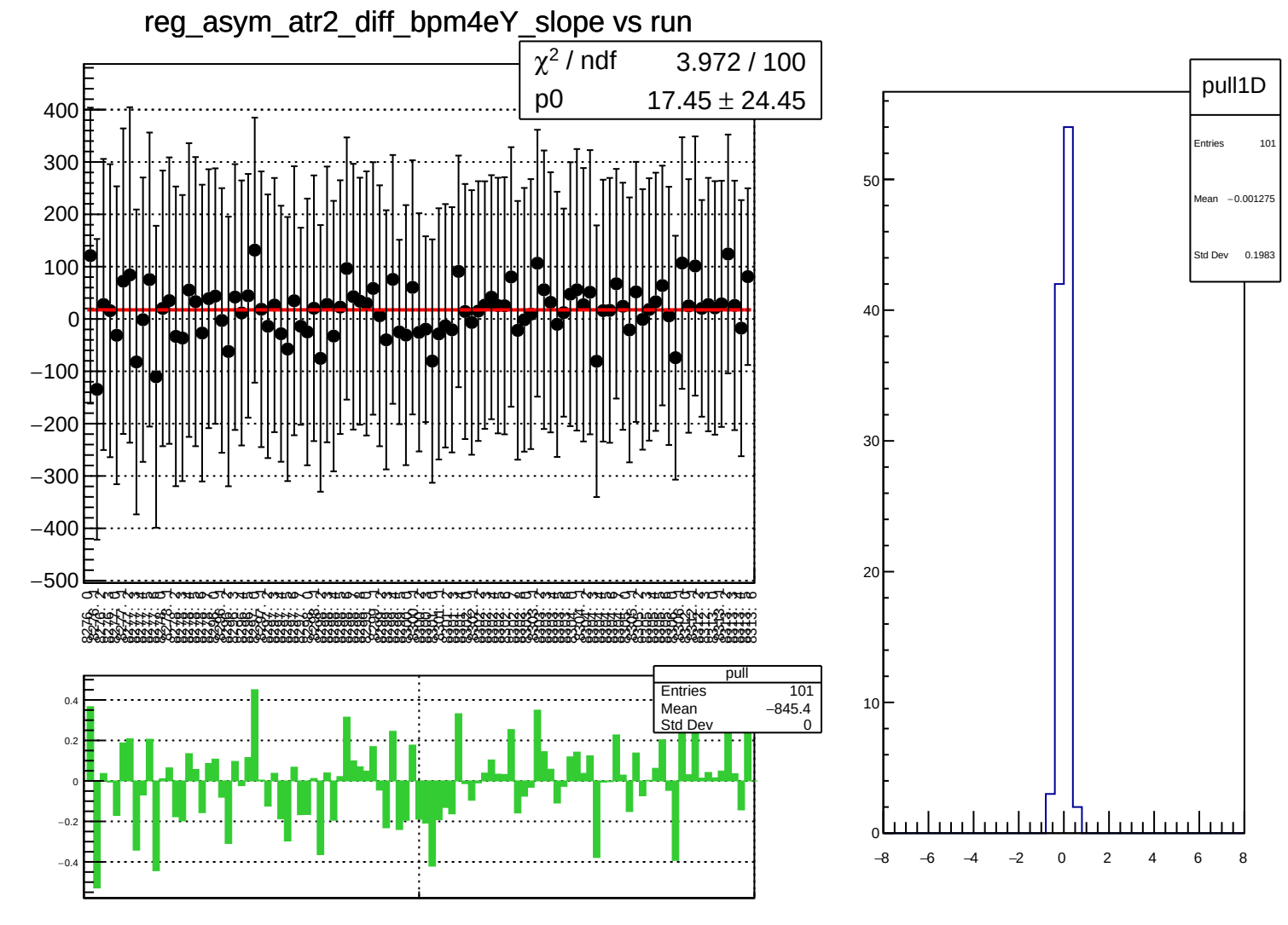

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 588.2 / 100
p0 −59.72 ± 0.278
−40
−50
−60
−70
−80
−90
pull
Entries 101
Mean −188.4
Std Dev 0
6
4
2
0
−2
−4
−6
pull1D
Entries 101
Mean −0.2072
Std Dev 2.404
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

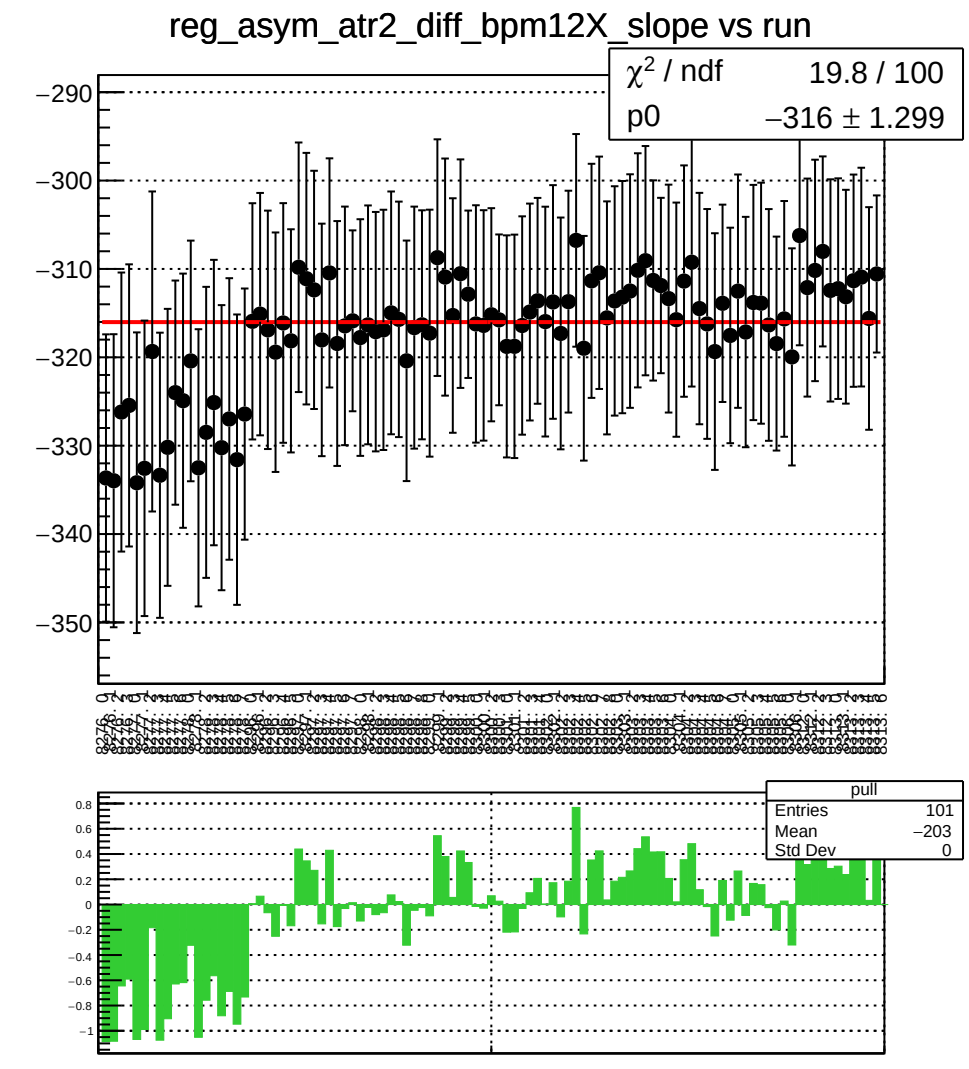

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 6.612 / 100
p0 −589.9 ± 12.05
pull
Entries 101
Mean −963.1
Std Dev 0
pull1D
Entries 101
Mean −0.002864
Std Dev 0.2559

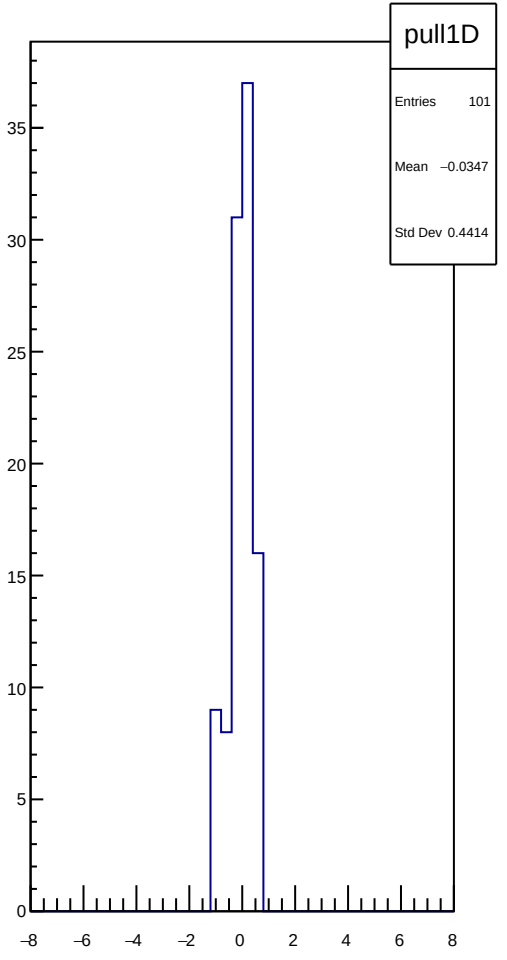

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 4.001 / 100
p0 105 ± 23.54
pull
Entries 101
Mean −665.2
Std Dev 0

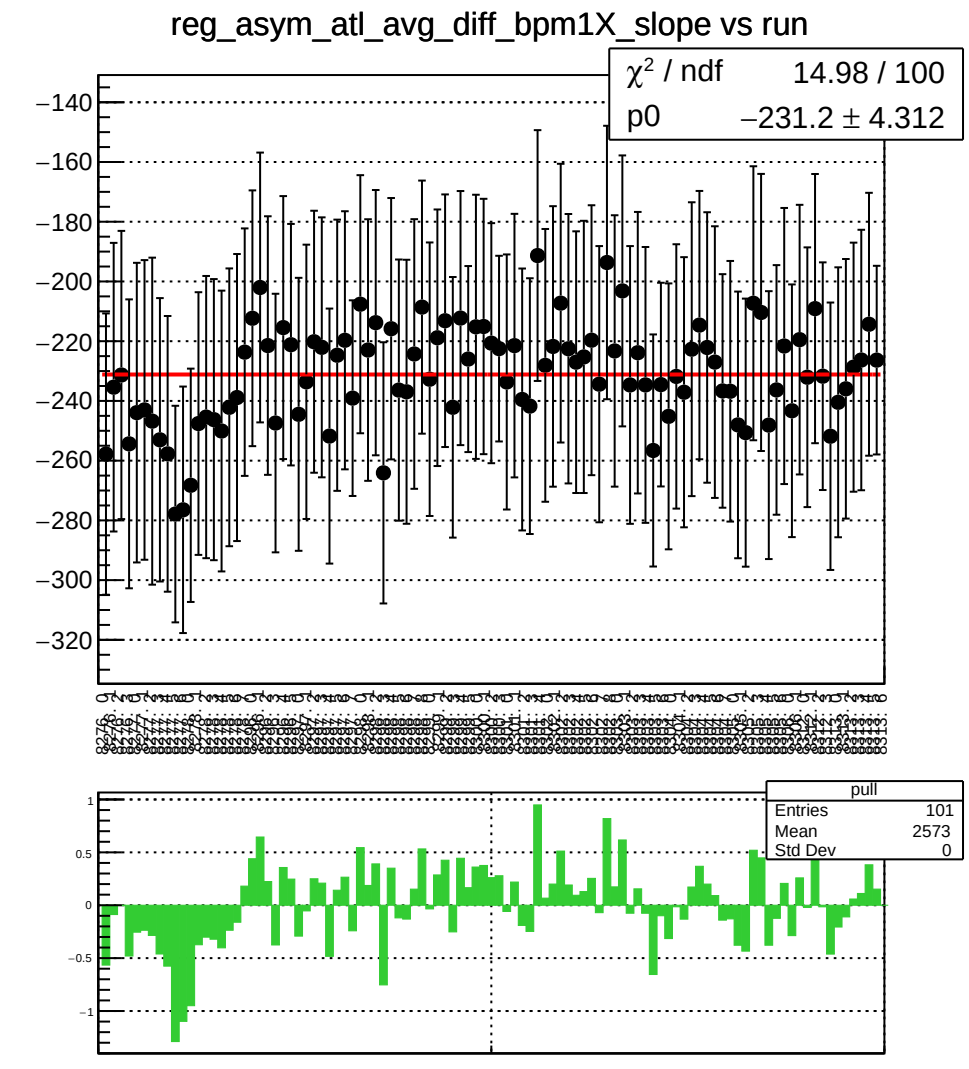

pull1D
Entries 101
Mean 0.001926
Std Dev 0.199

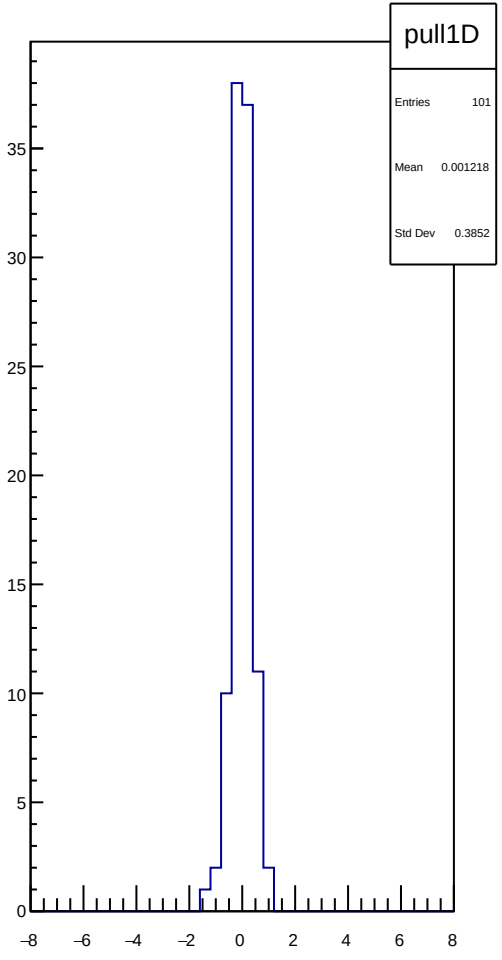

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 6.668 / 100
p0 626.9 ± 13.46
800
700
600
500
400
pull
Entries 101
Mean −1195
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 101
Mean 0.002377
Std Dev 0.2569
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

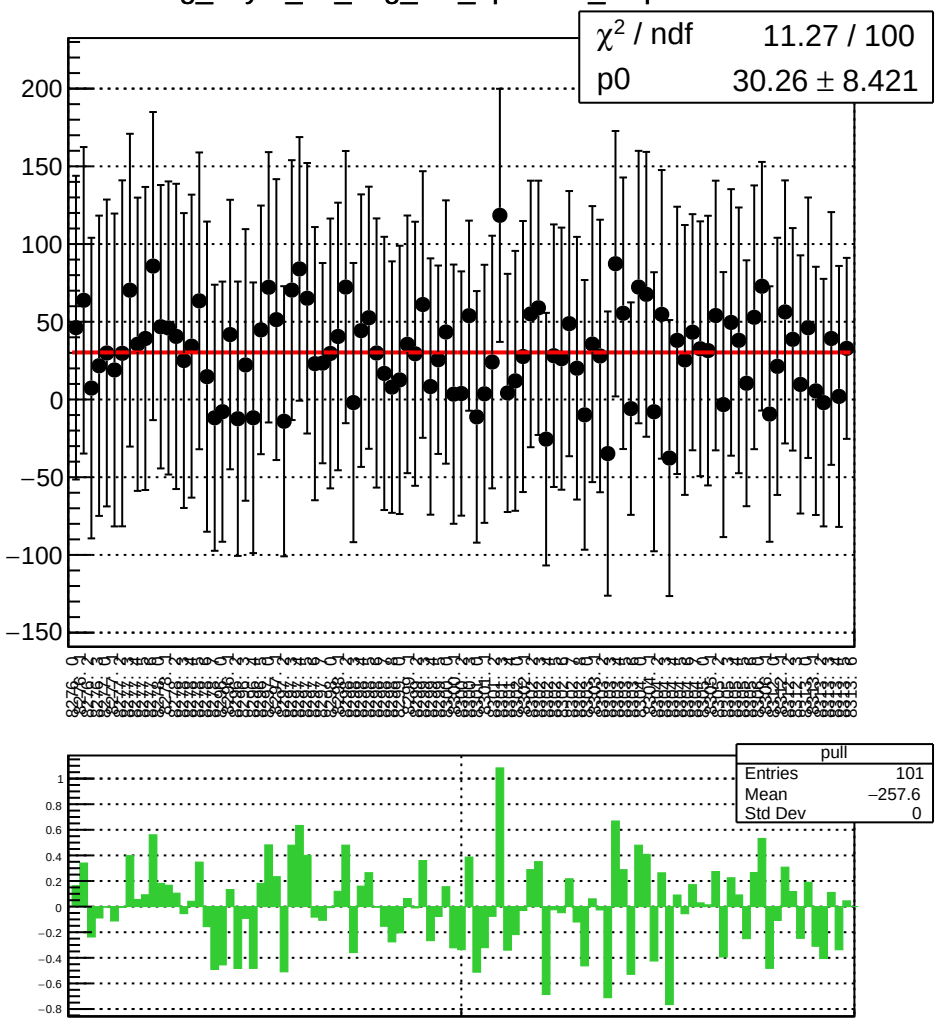

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 3.972 / 100
p0 17.45 ± 24.45
pull
Entries 101
Mean −845.4
Std Dev 0
pull1D
Entries 101
Mean −0.001275
Std Dev 0.1983

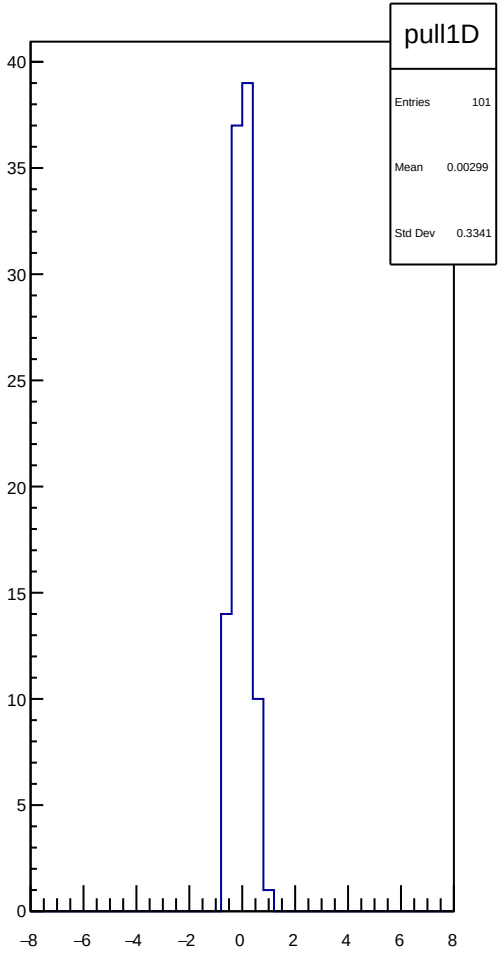

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 19.8 / 100
p0 −316 ± 1.299
−290
−300
−310
−320
−330
−340
−350
pull
Entries 101
Mean −203
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

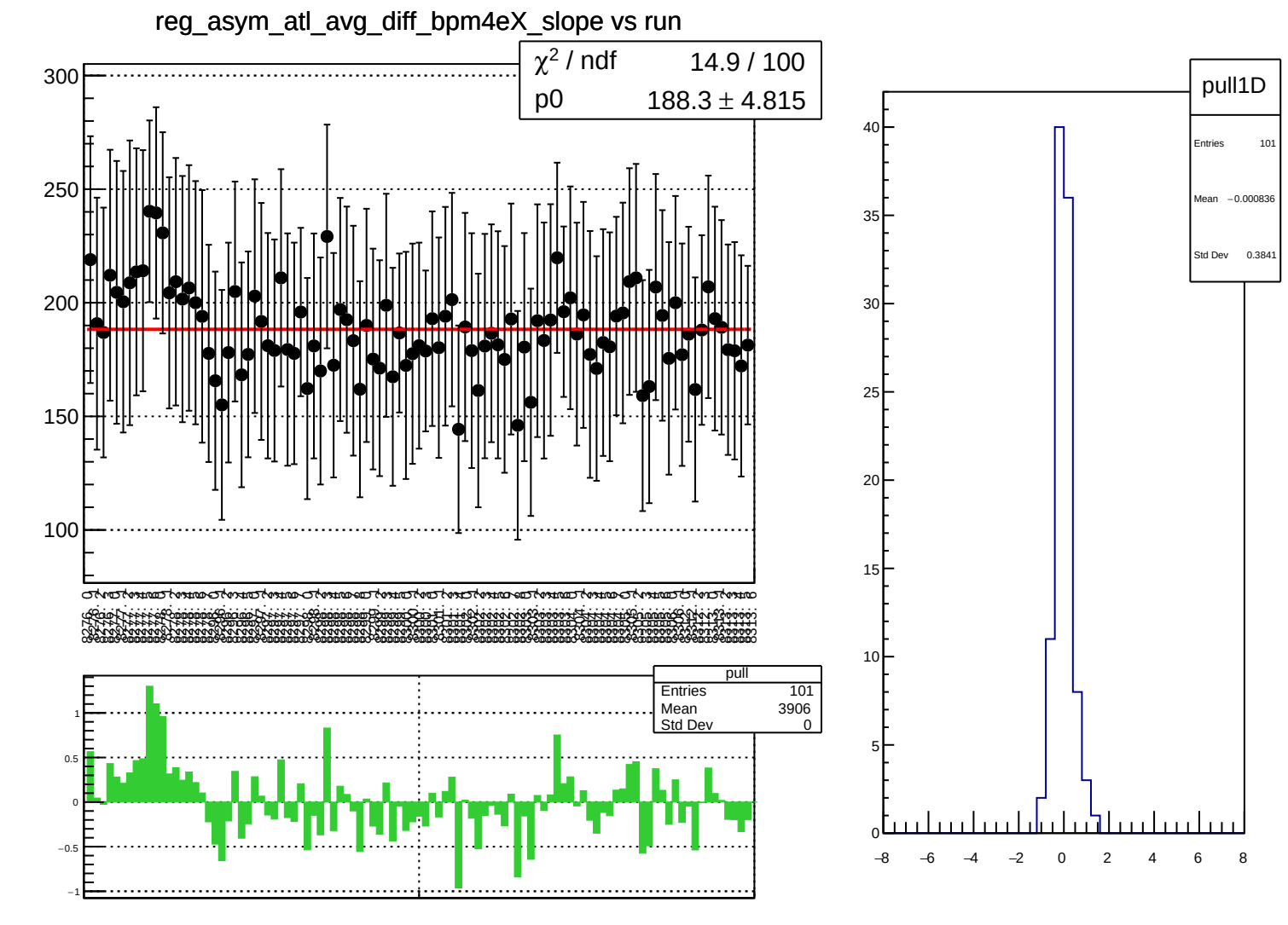

pull1D
Entries 101
Mean −0.0347
Std Dev 0.4414
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

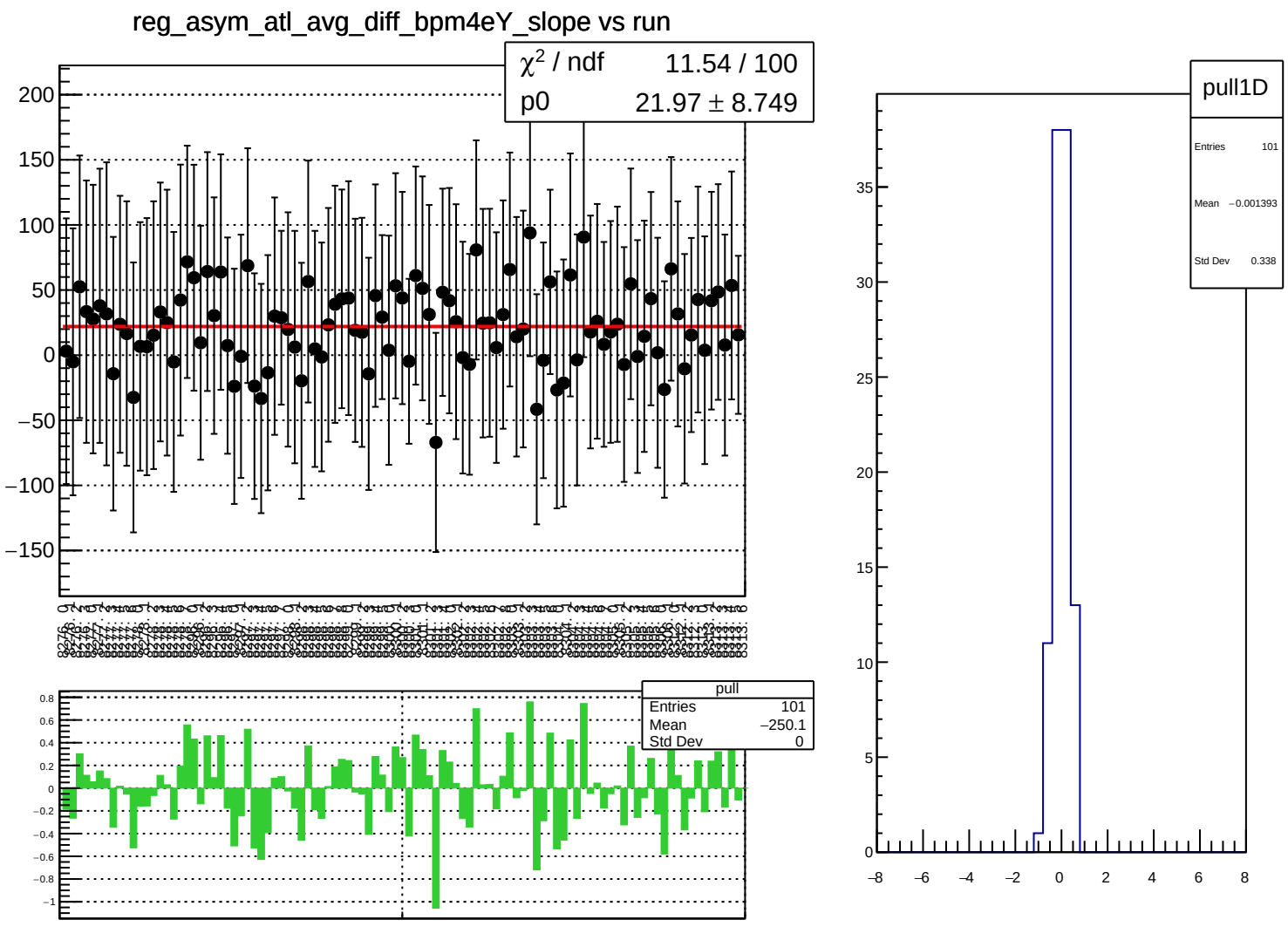

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 14.98 / 100
p0 −231.2 ± 4.312
pull
Entries 101
Mean 2573
Std Dev 0

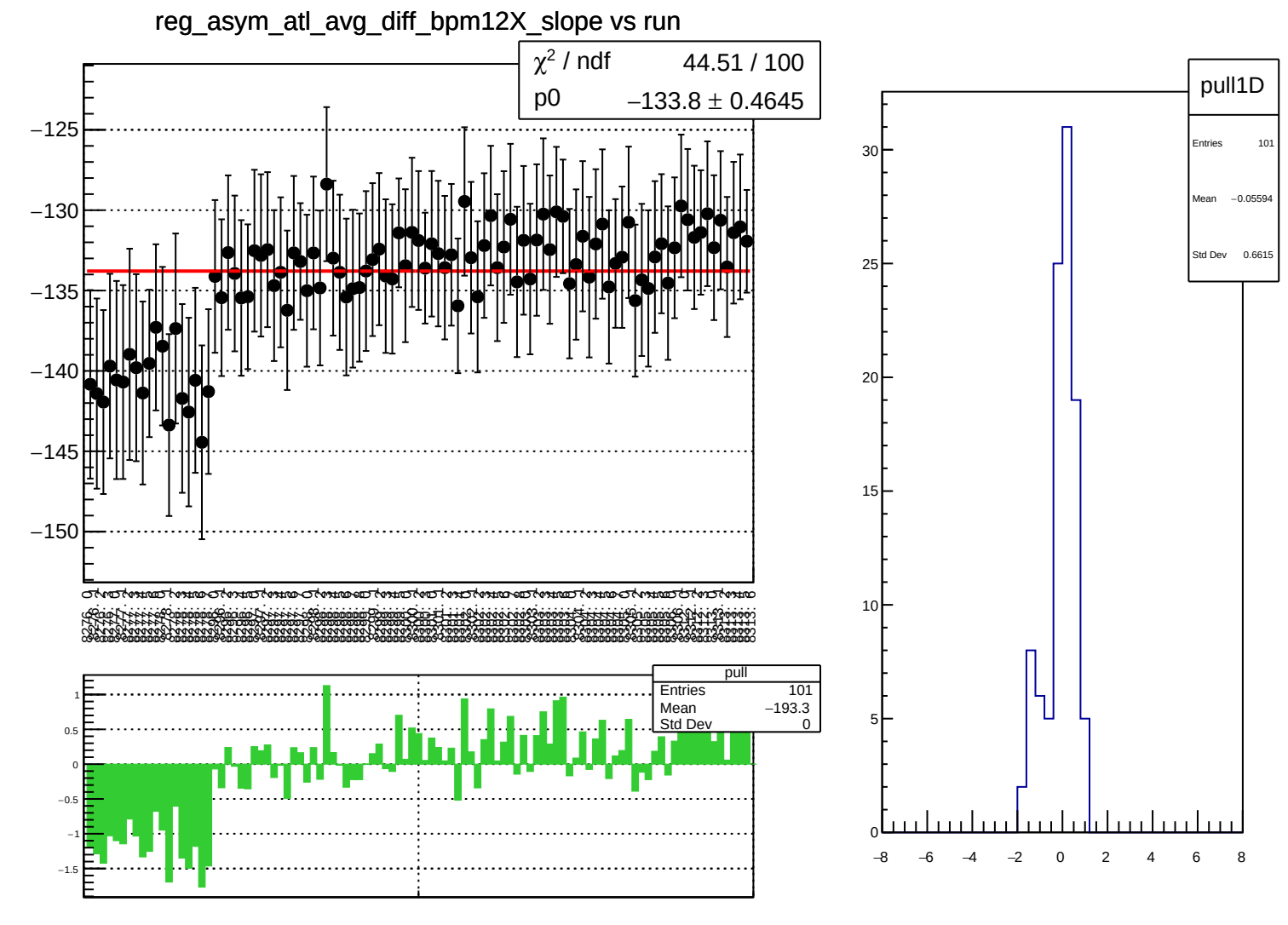

pull1D
Entries 101
Mean 0.001218
Std Dev 0.3852

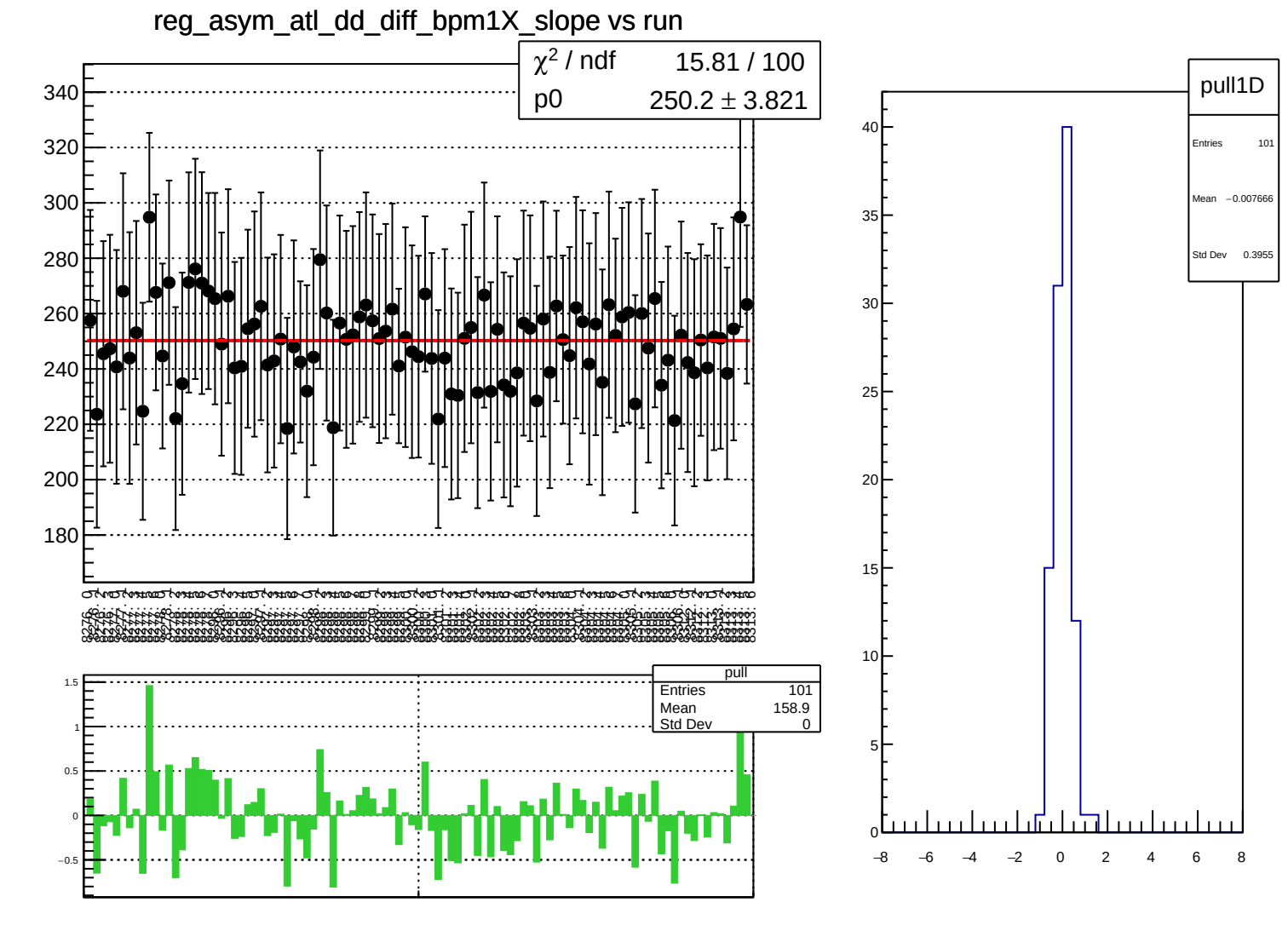

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.27 / 100
p0 30.26 ± 8.421
pull
Entries 101
Mean −257.6
Std Dev 0

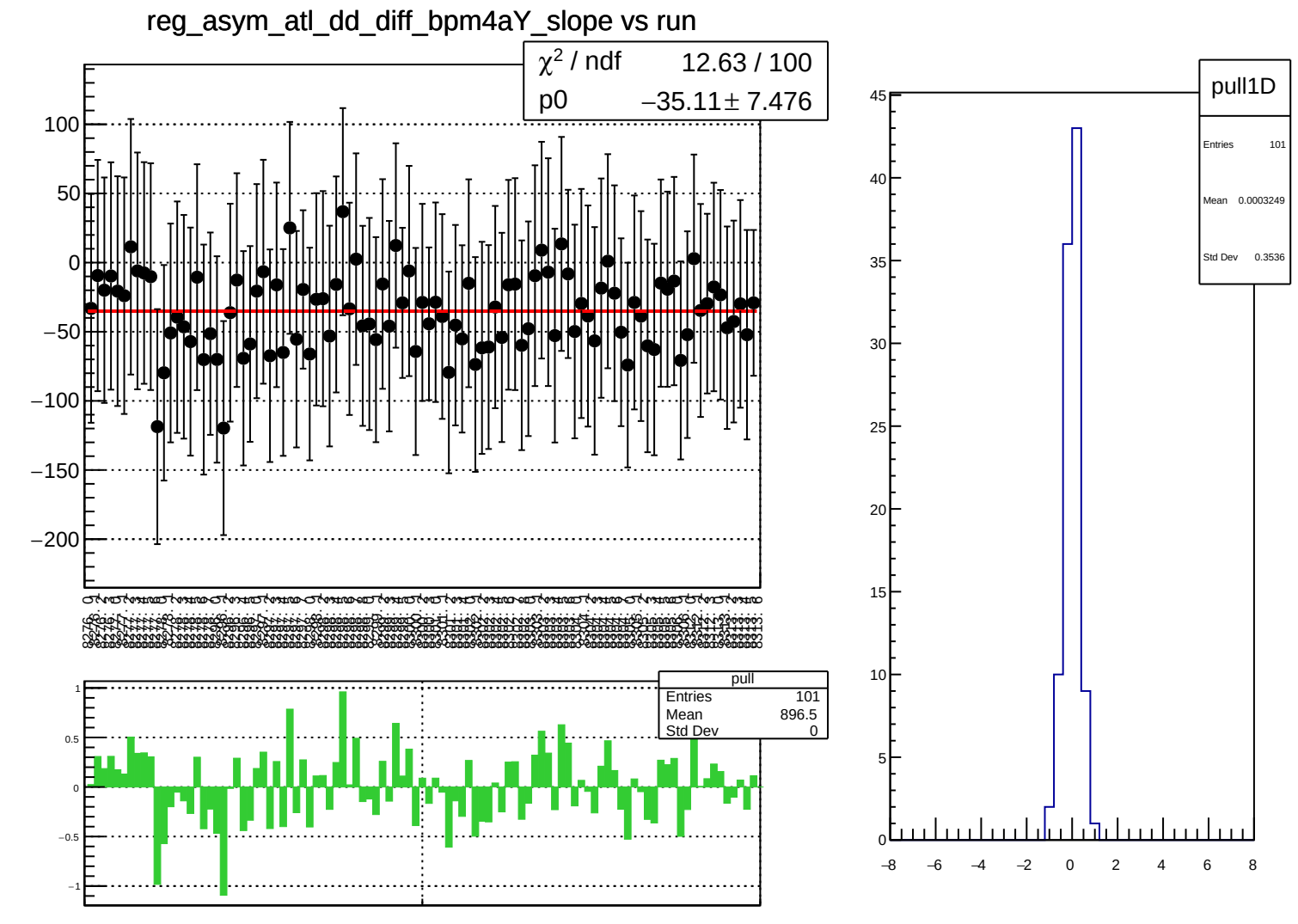

pull1D
Entries 101
Mean 0.00299
Std Dev 0.3341

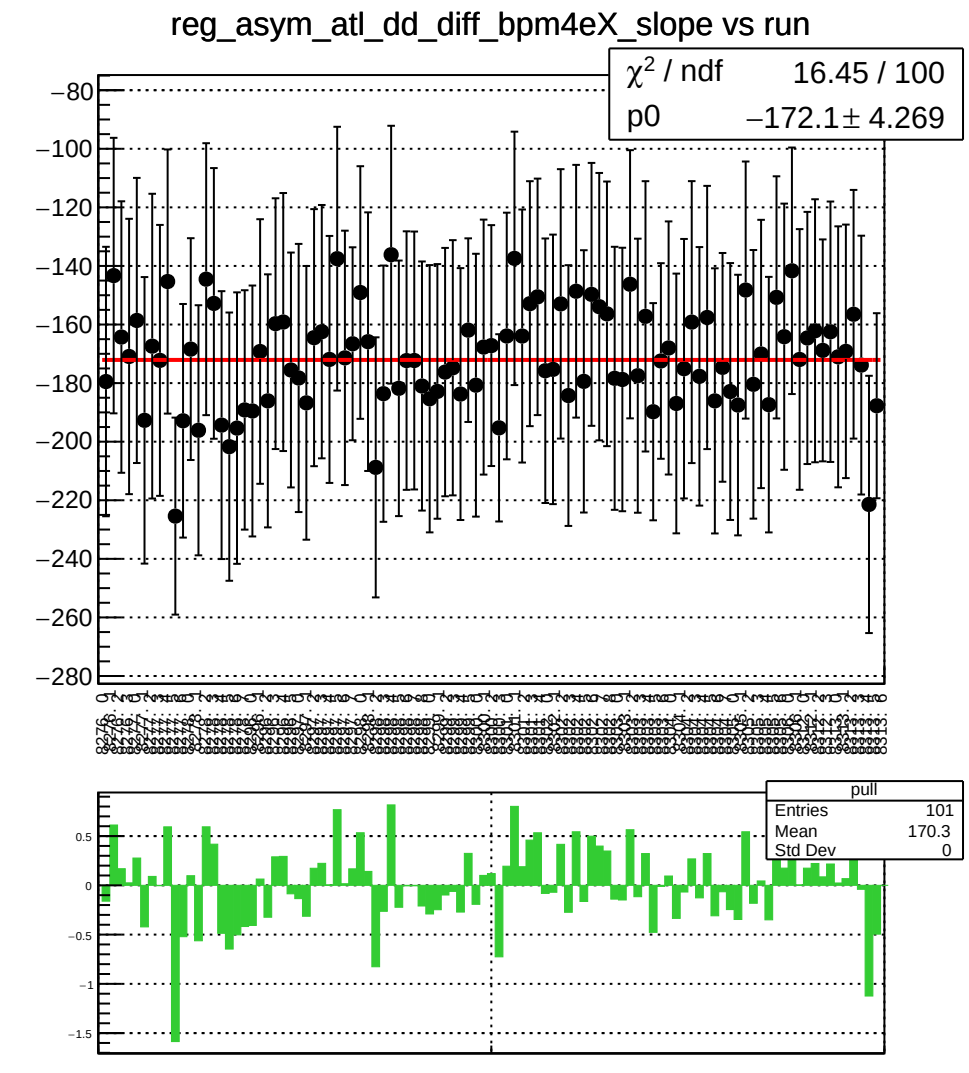

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 14.9 / 100
p0 188.3 ± 4.815
300
250
200
150
100
pull
Entries 101
Mean 3906
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 101
Mean −0.000836
Std Dev 0.3841
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

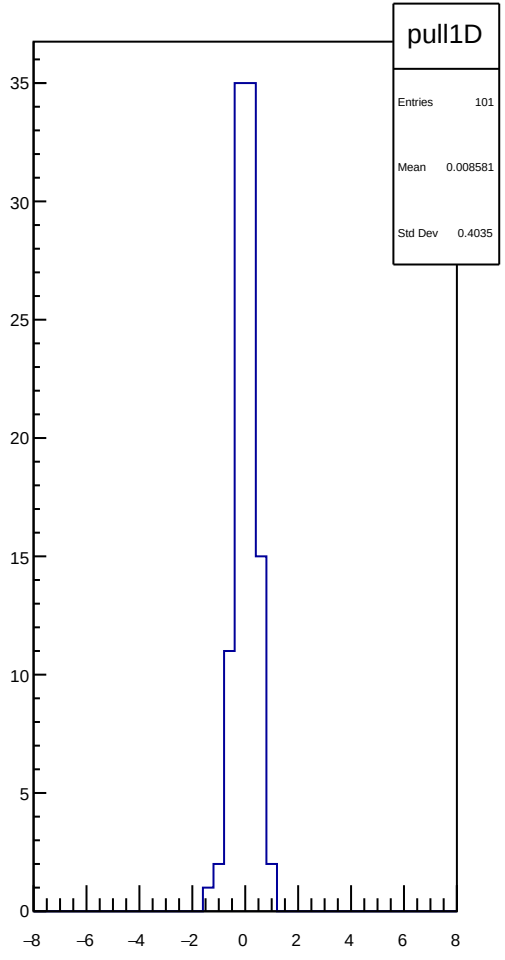

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.54 / 100
p0 21.97 ± 8.749
pull
Entries 101
Mean −250.1
Std Dev 0
pull1D
Entries 101
Mean −0.001393
Std Dev 0.338

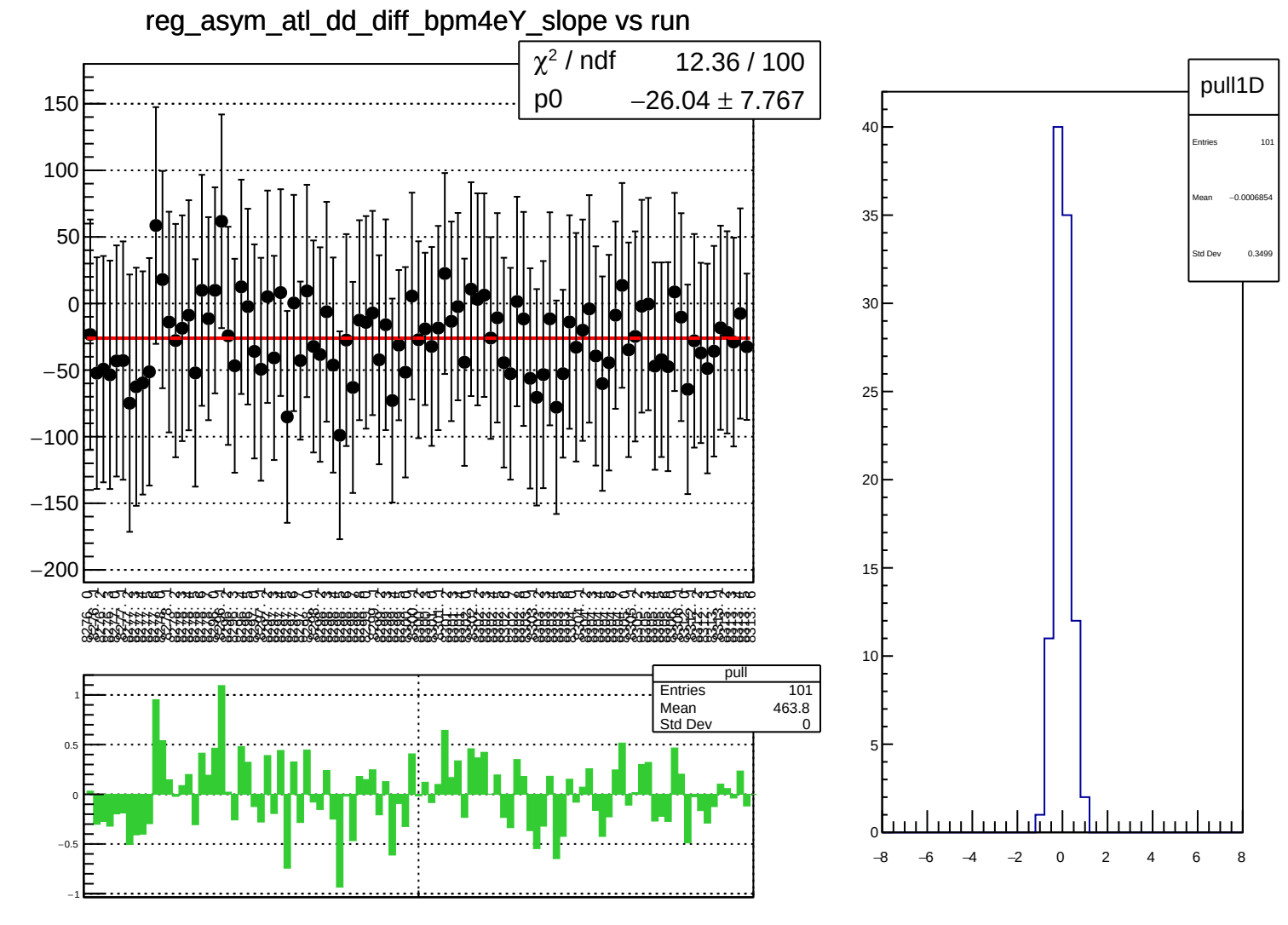

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 44.51 / 100
p0 −133.8 ± 0.4645
−125
−130
−135
−140
−145
−150
pull
Entries 101
Mean −193.3
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 101
Mean −0.05594
Std Dev 0.6615
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

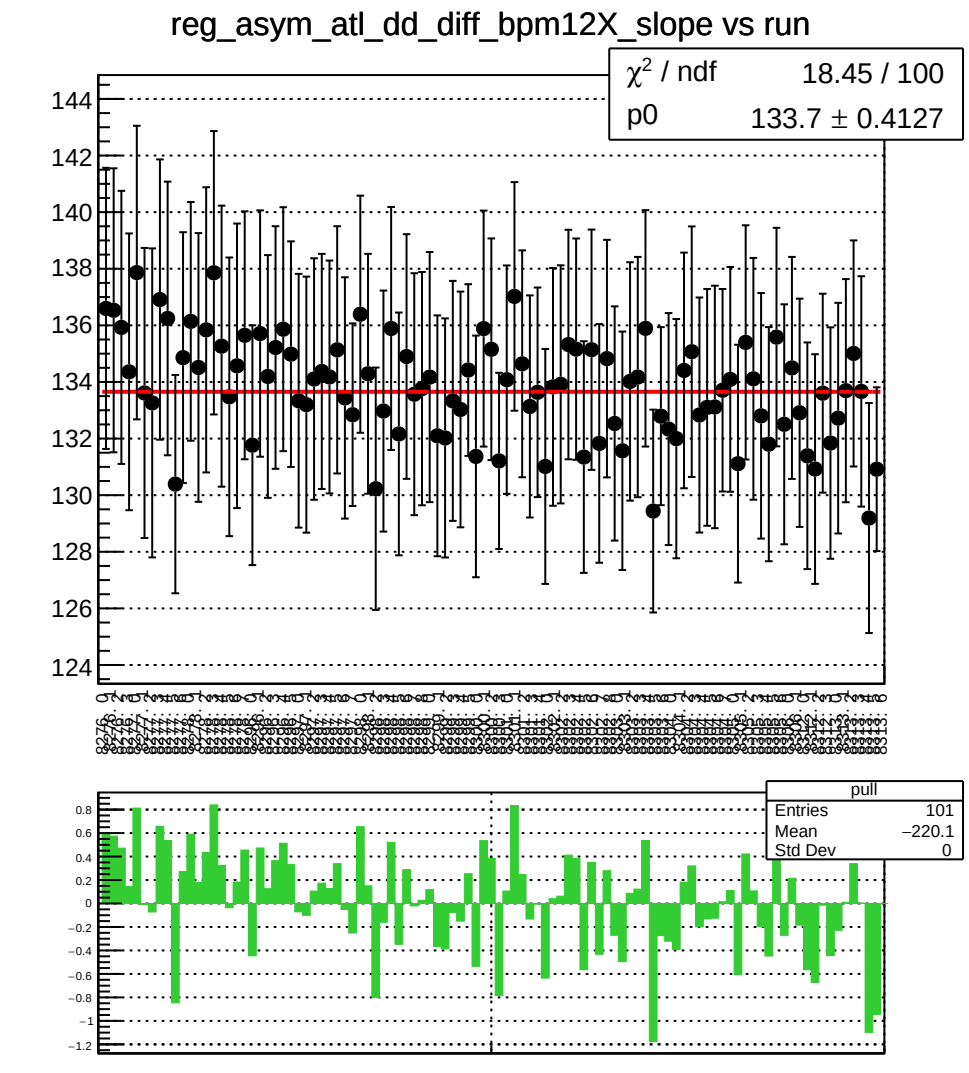

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 15.81 / 100
p0 250.2 ± 3.821
340
320
300
280
260
240
220
200
180
pull
Entries 101
Mean 158.9
Std Dev 0
1.5
1
0.5
0
−0.5
pull1D
Entries 101
Mean −0.007666
Std Dev 0.3955
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

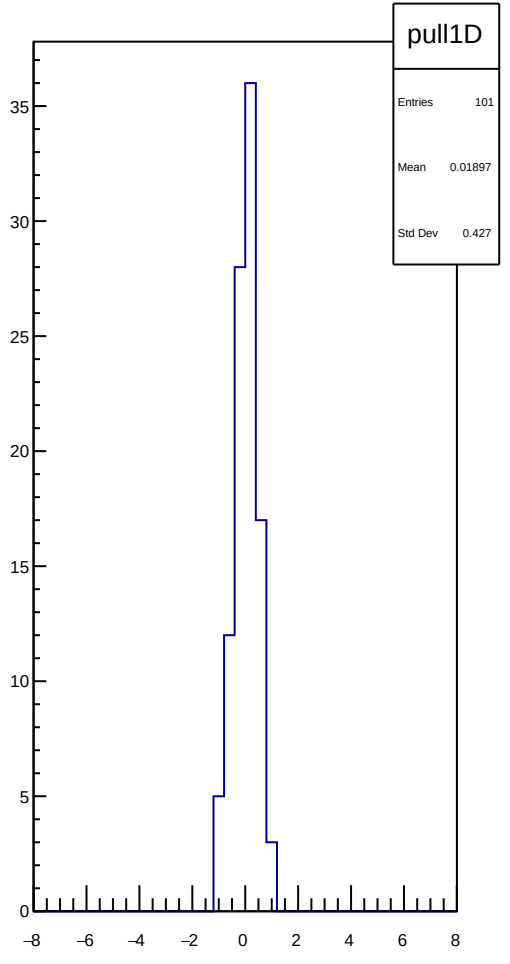

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.63 / 100
p0 −35.11 ± 7.476
100
50
0
−50
−100
−150
−200
pull
Entries 101
Mean 896.5
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 101
Mean 0.0003249
Std Dev 0.3536
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

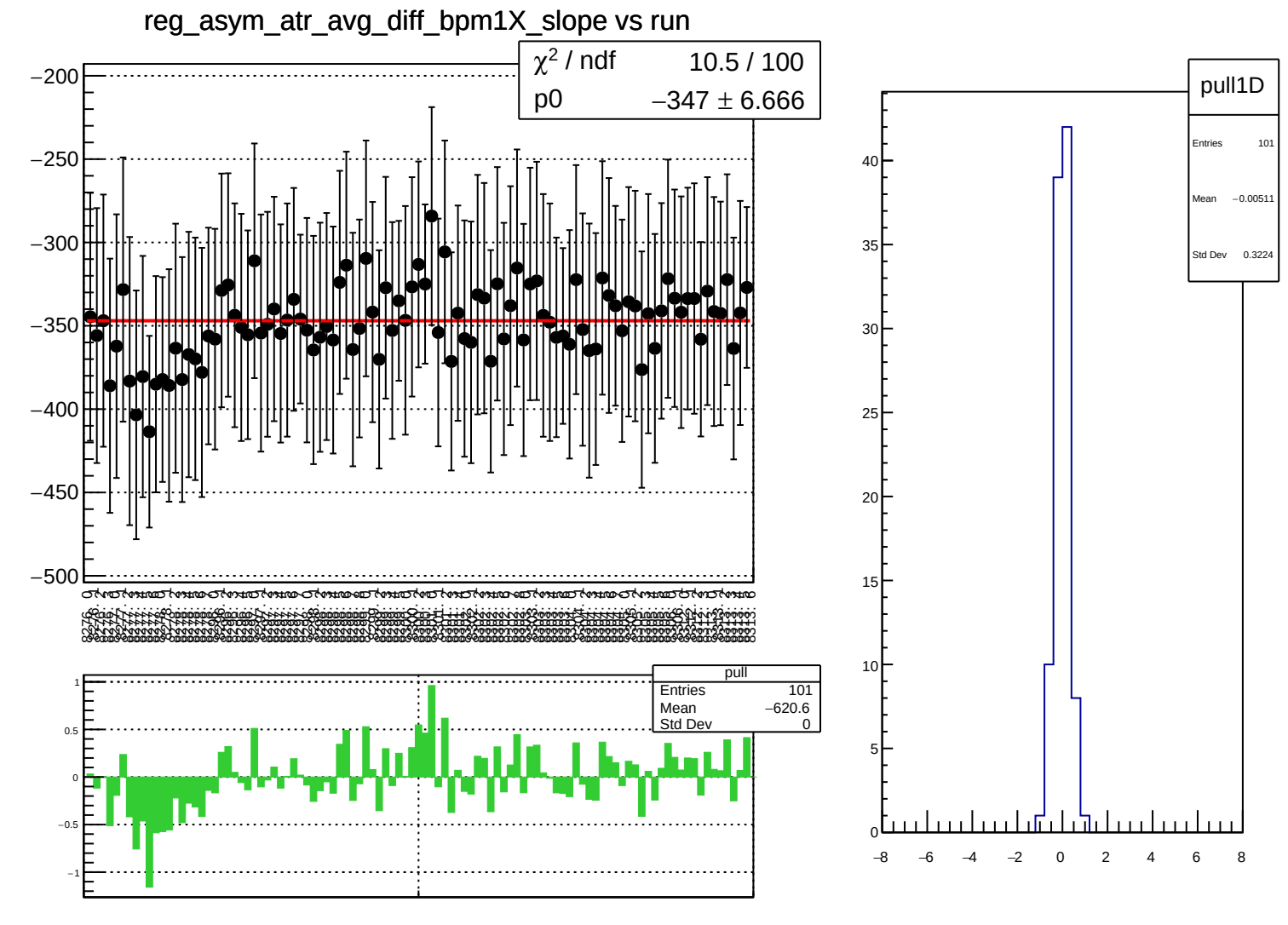

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 16.45 / 100
p0 −172.1± 4.269
pull
Entries 101
Mean 170.3
Std Dev 0

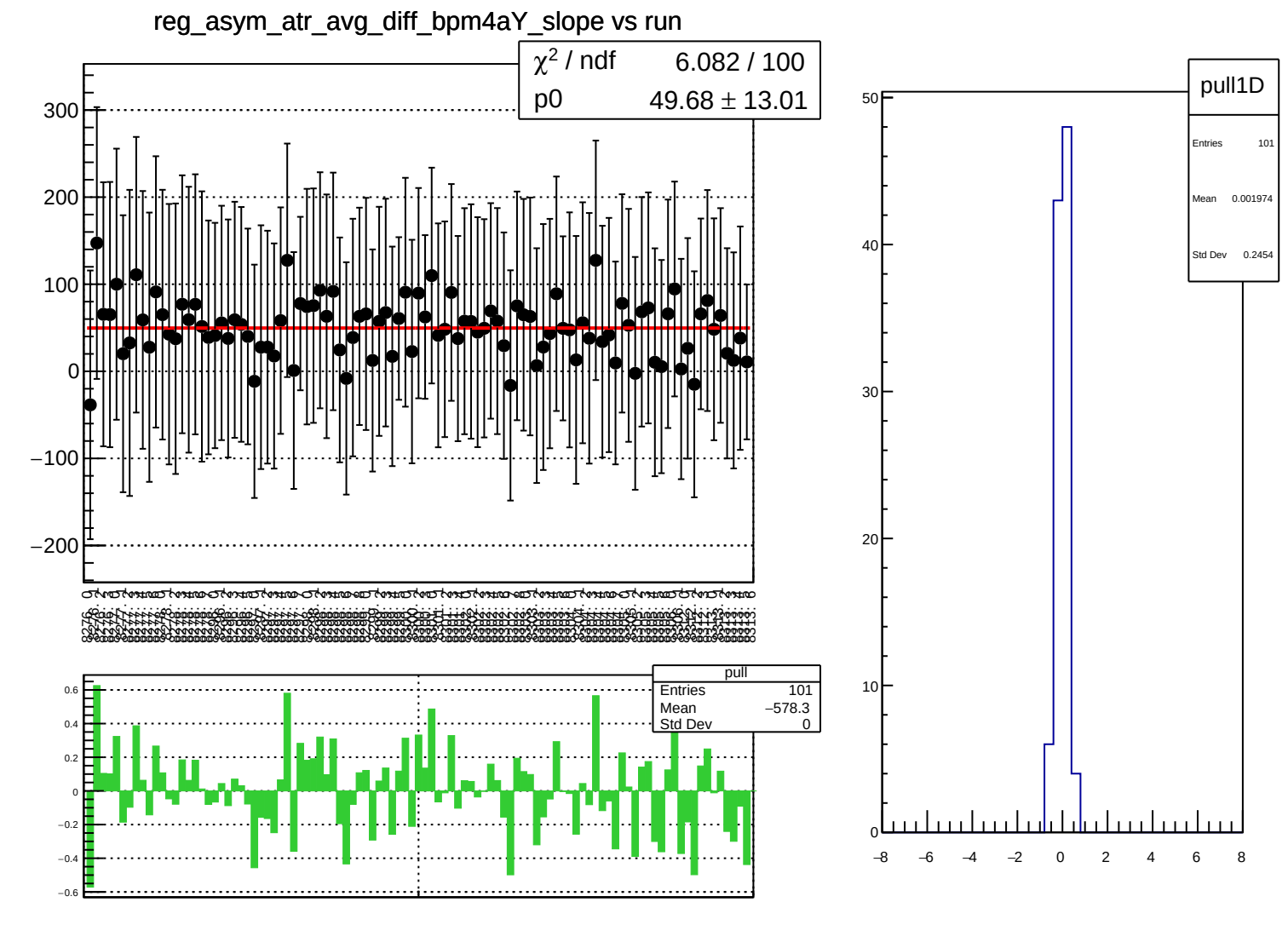

pull1D
Entries 101
Mean 0.008581
Std Dev 0.4035

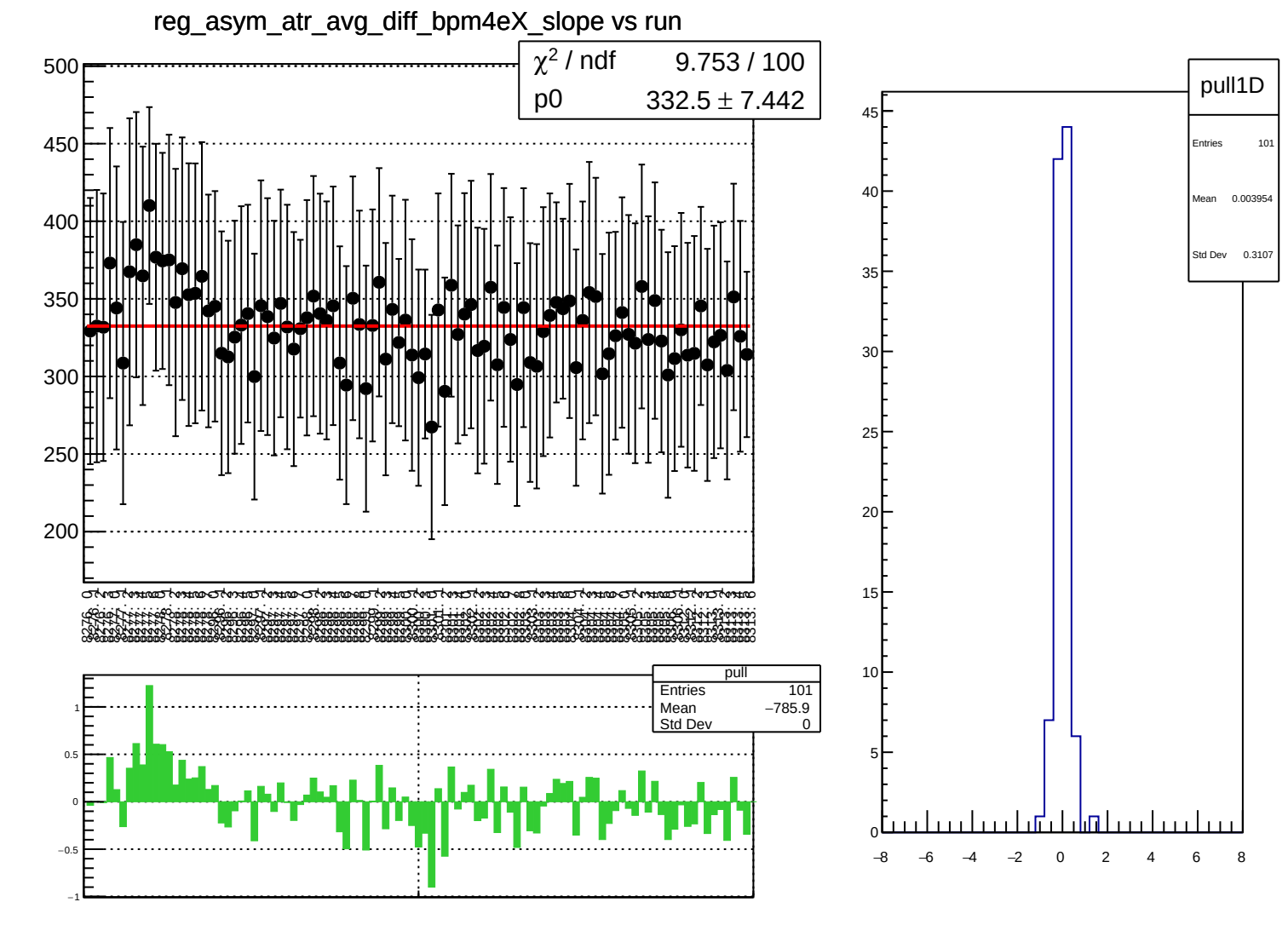

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.36 / 100
p0 −26.04 ± 7.767
pull
Entries 101
Mean 463.8
Std Dev 0
pull1D
Entries 101
Mean −0.0006854
Std Dev 0.3499

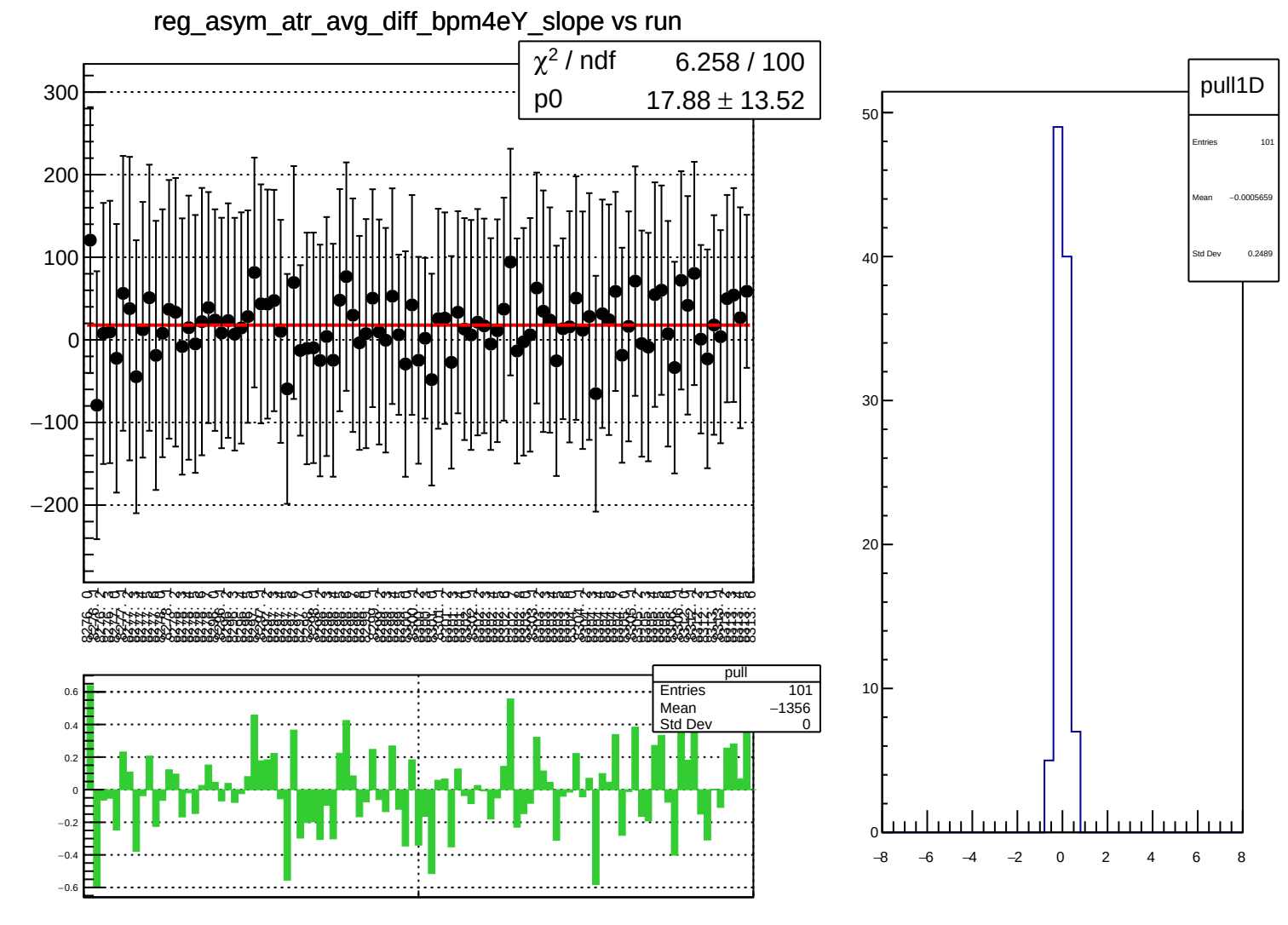

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 18.45 / 100
p0 133.7 ± 0.4127
144
142
140
138
136
134
132
130
128
126
124
pull
Entries 101
Mean −220.1
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

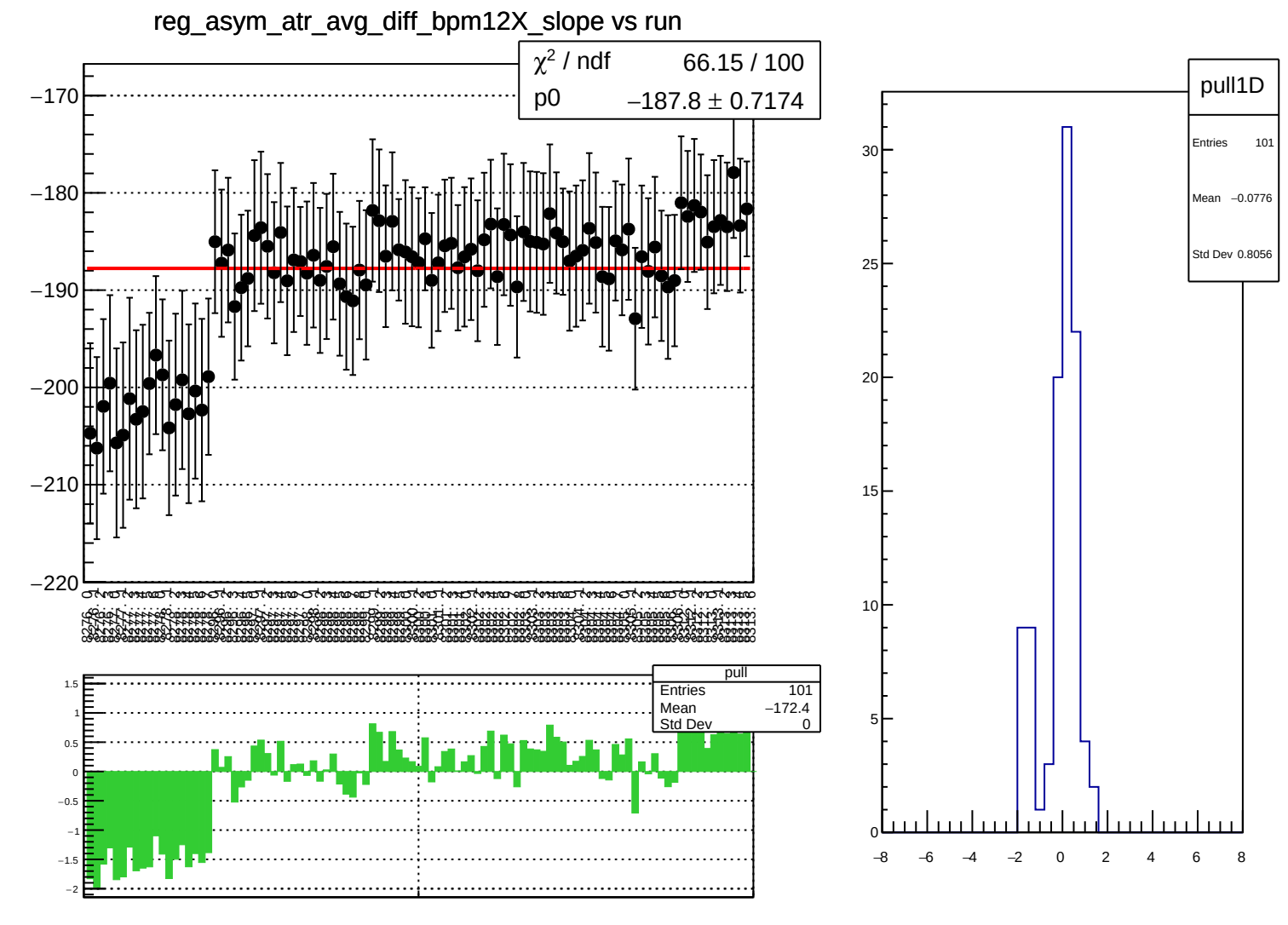

pull1D
Entries 101
Mean 0.01897
Std Dev 0.427
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

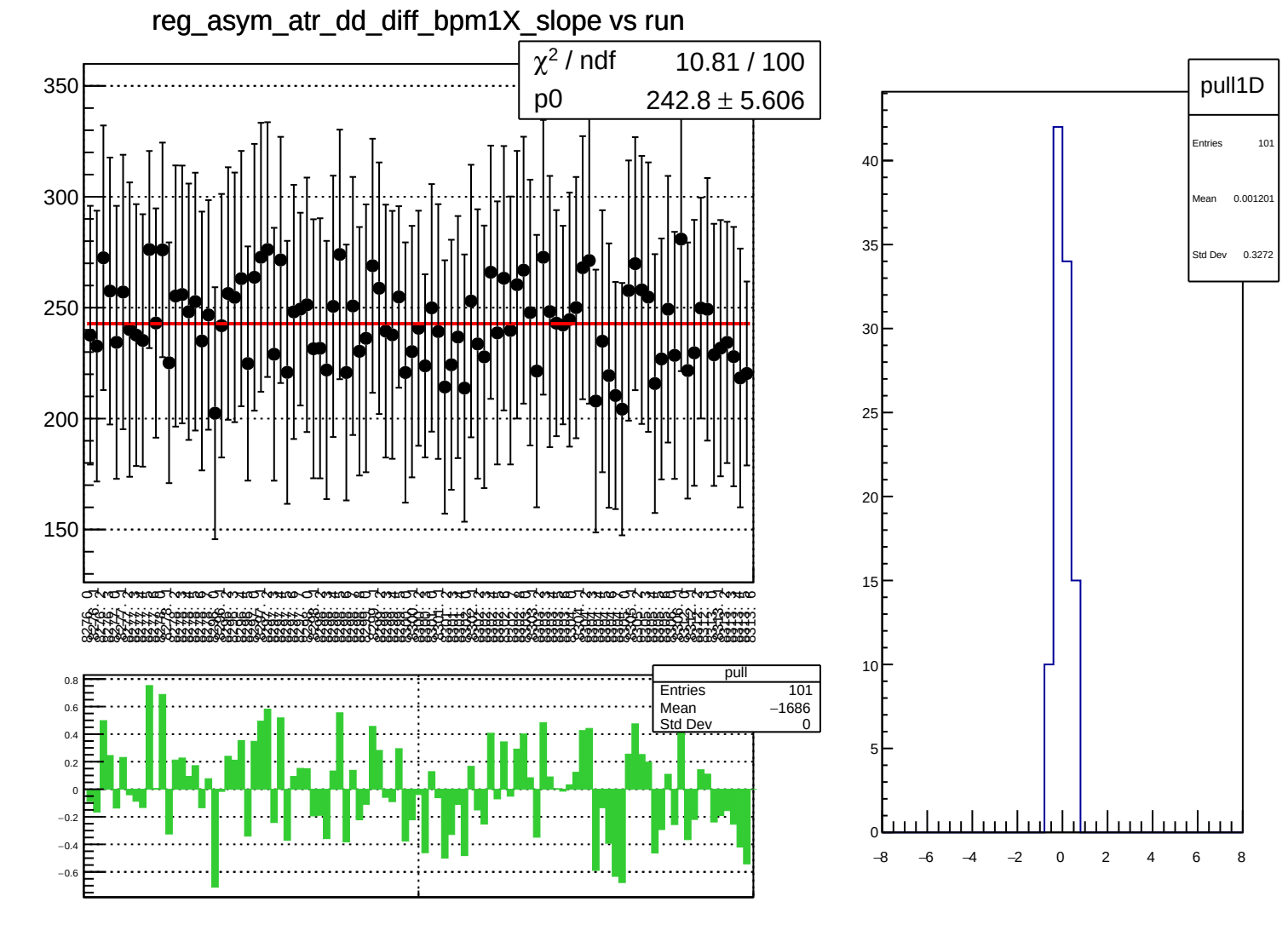

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 10.5 / 100
p0 −347 ± 6.666
pull
Entries 101
Mean −620.6
Std Dev 0
pull1D
Entries 101
Mean −0.00511
Std Dev 0.3224

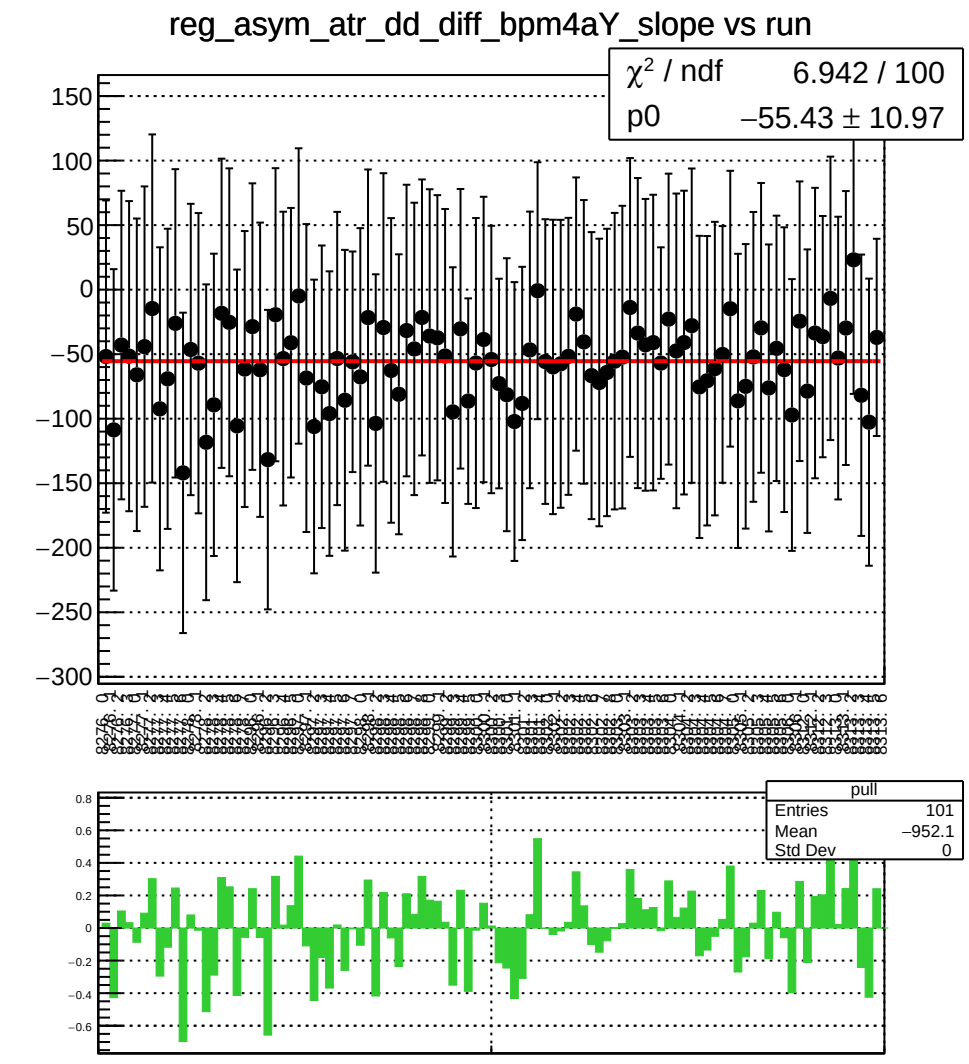

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.082 / 100
p0 49.68 ± 13.01
300
200
100
0
−100
−200
pull
Entries 101
Mean −578.3
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 101
Mean 0.001974
Std Dev 0.2454
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

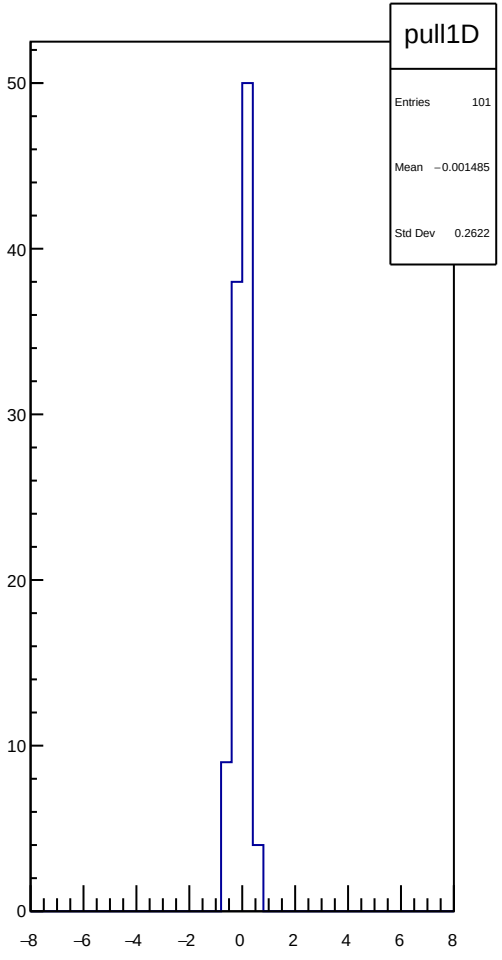

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.753 / 100
p0 332.5 ± 7.442
pull
Entries 101
Mean −785.9
Std Dev 0
pull1D
Entries 101
Mean 0.003954
Std Dev 0.3107

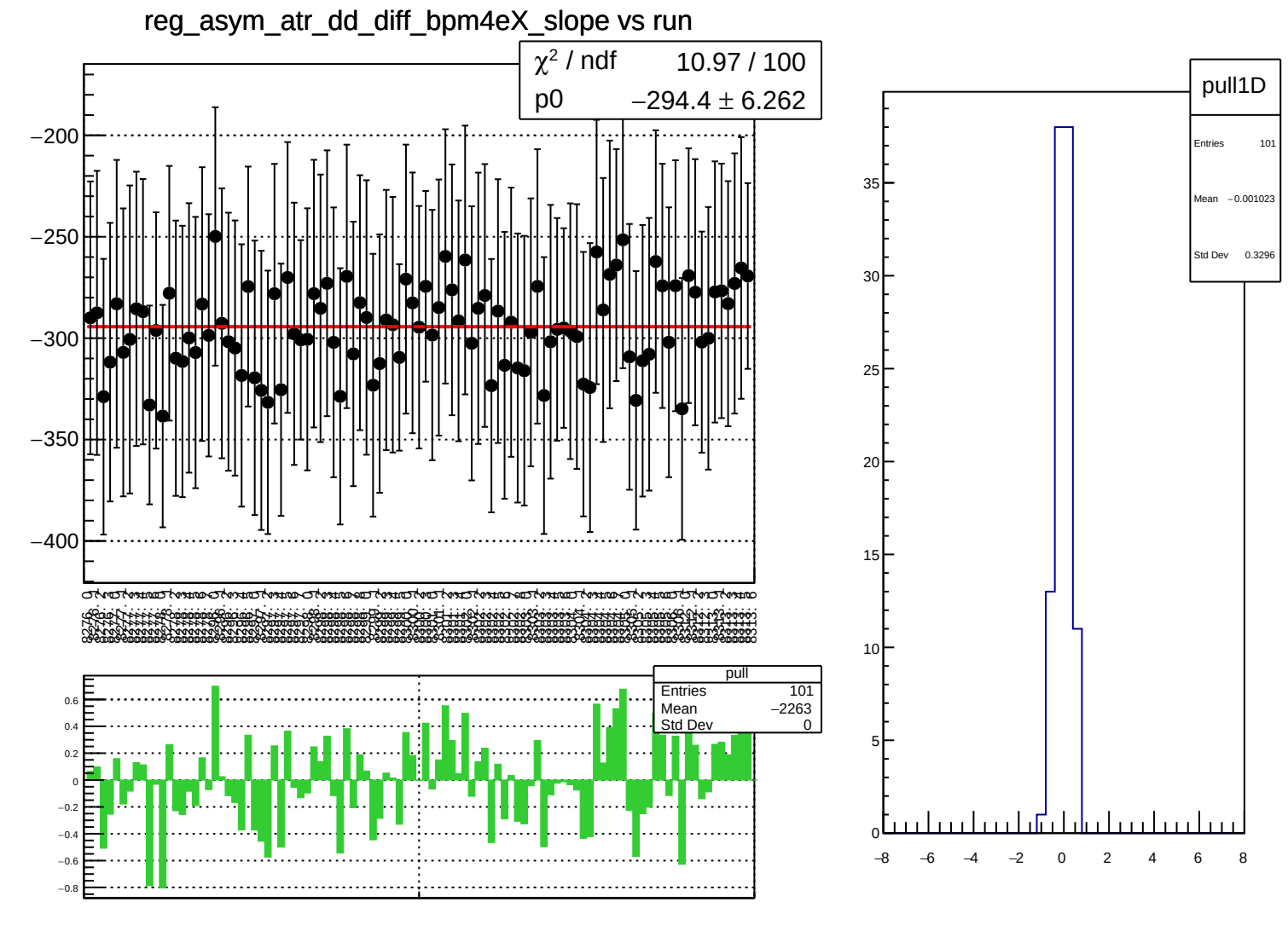

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.258 / 100
p0 17.88 ± 13.52
300
200
100
0
−100
−200
pull
Entries 101
Mean −1356
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 101
Mean −0.0005659
Std Dev 0.2489
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

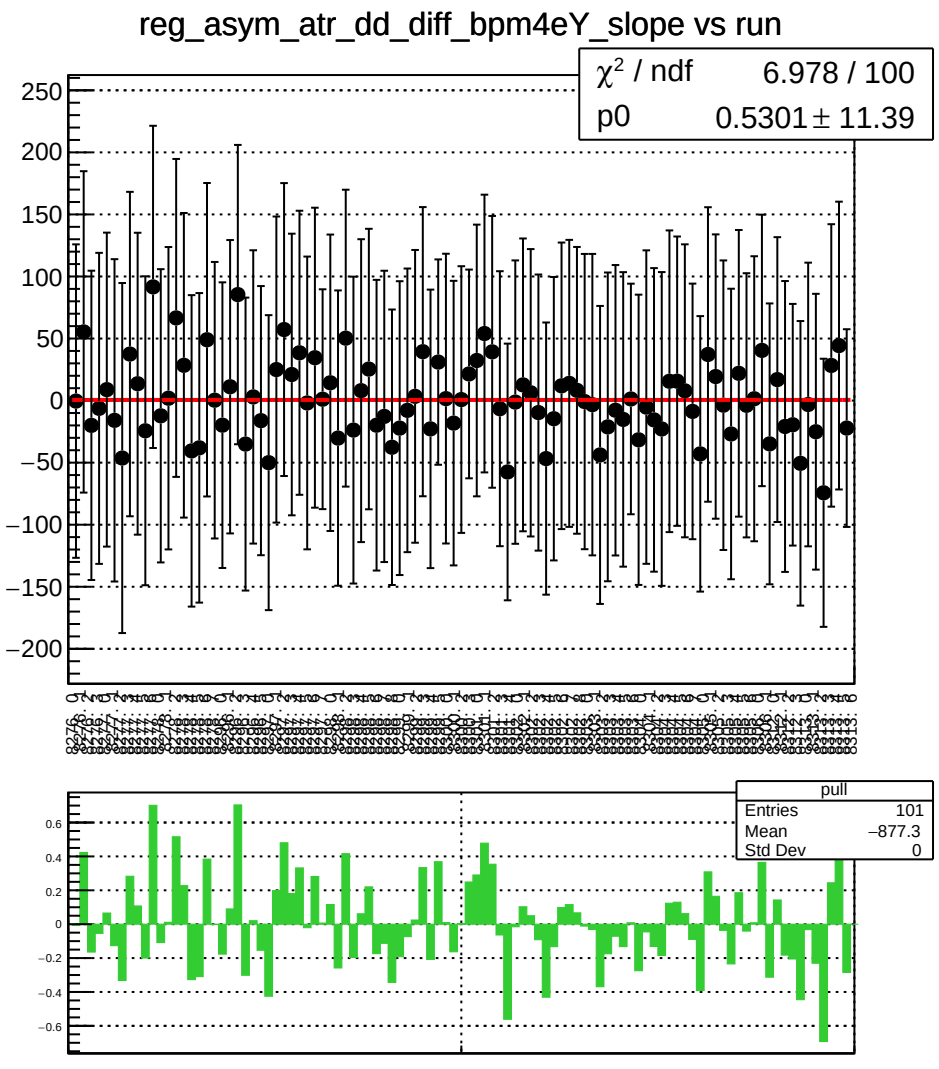

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 66.15 / 100
p0 −187.8 ± 0.7174
−170
−180
−190
−200
−210
−220
pull
Entries 101
Mean −172.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 101
Mean −0.0776
Std Dev 0.8056
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

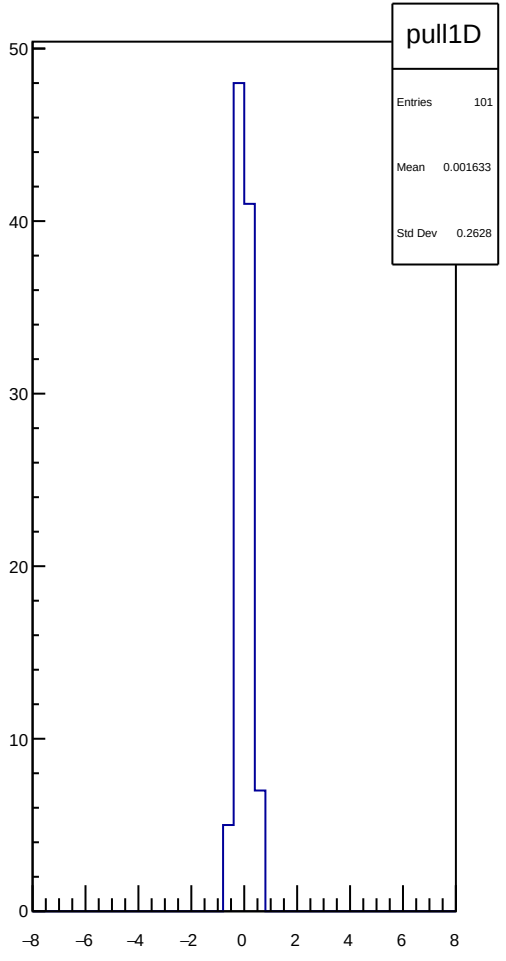

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 10.81 / 100
p0 242.8 ± 5.606
350
300
250
200
150
pull
Entries 101
Mean −1686
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 101
Mean 0.001201
Std Dev 0.3272
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

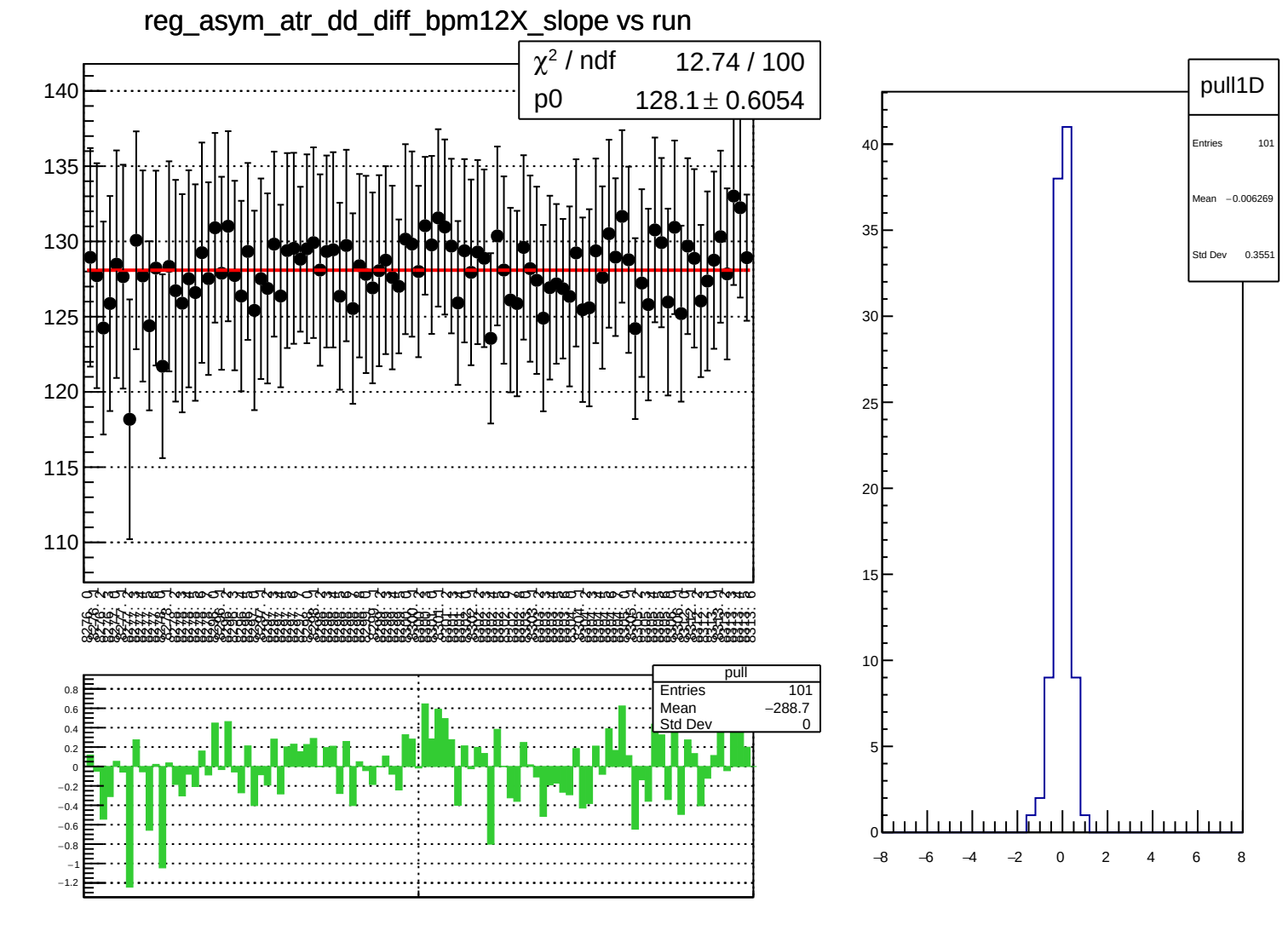

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.942 / 100
p0 −55.43 ± 10.97
pull
Entries 101
Mean −952.1
Std Dev 0

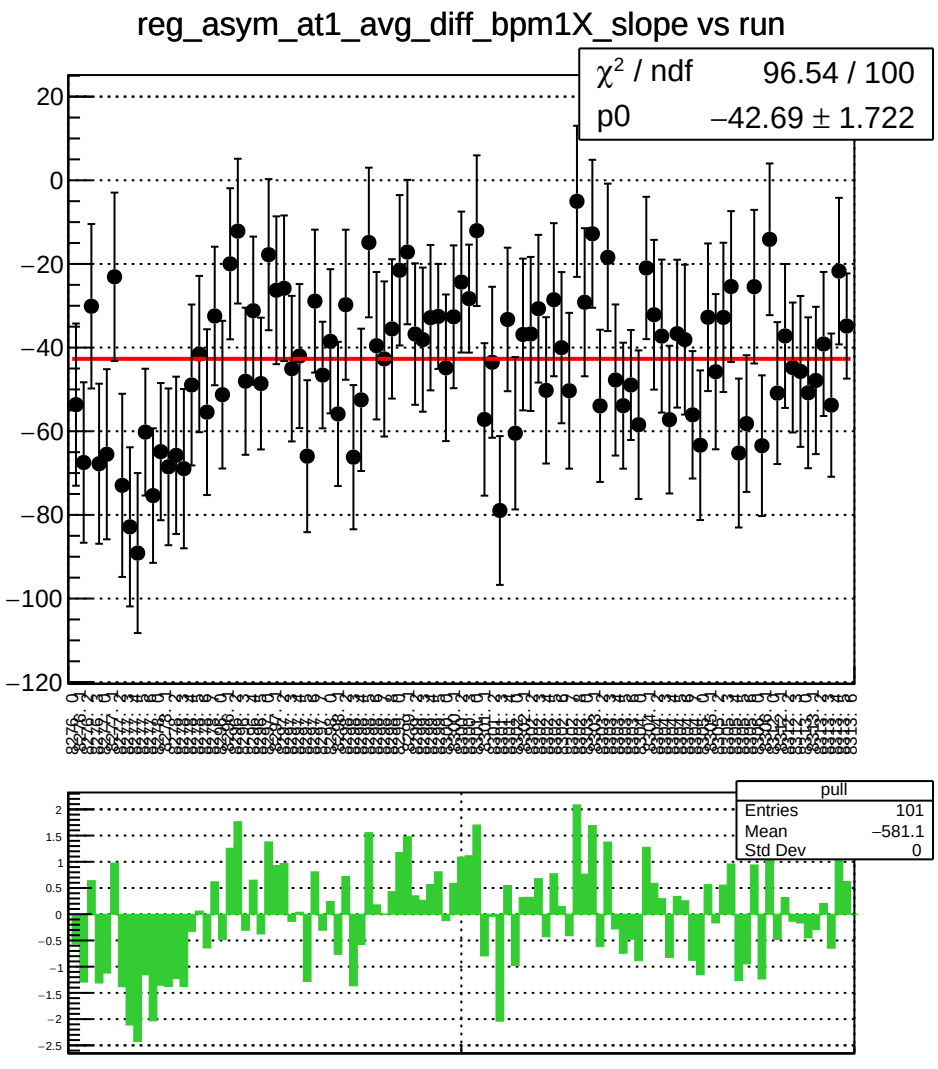

pull1D
Entries 101
Mean −0.001485
Std Dev 0.2622

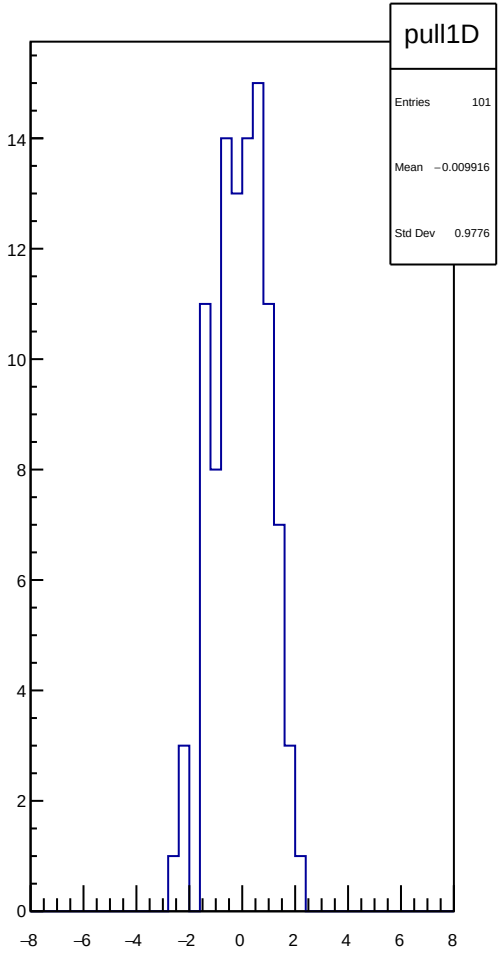

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.97 / 100
p0 −294.4 ± 6.262
−200
−250
−300
−350
−400
pull
Entries 101
Mean −2263
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 101
Mean −0.001023
Std Dev 0.3296
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

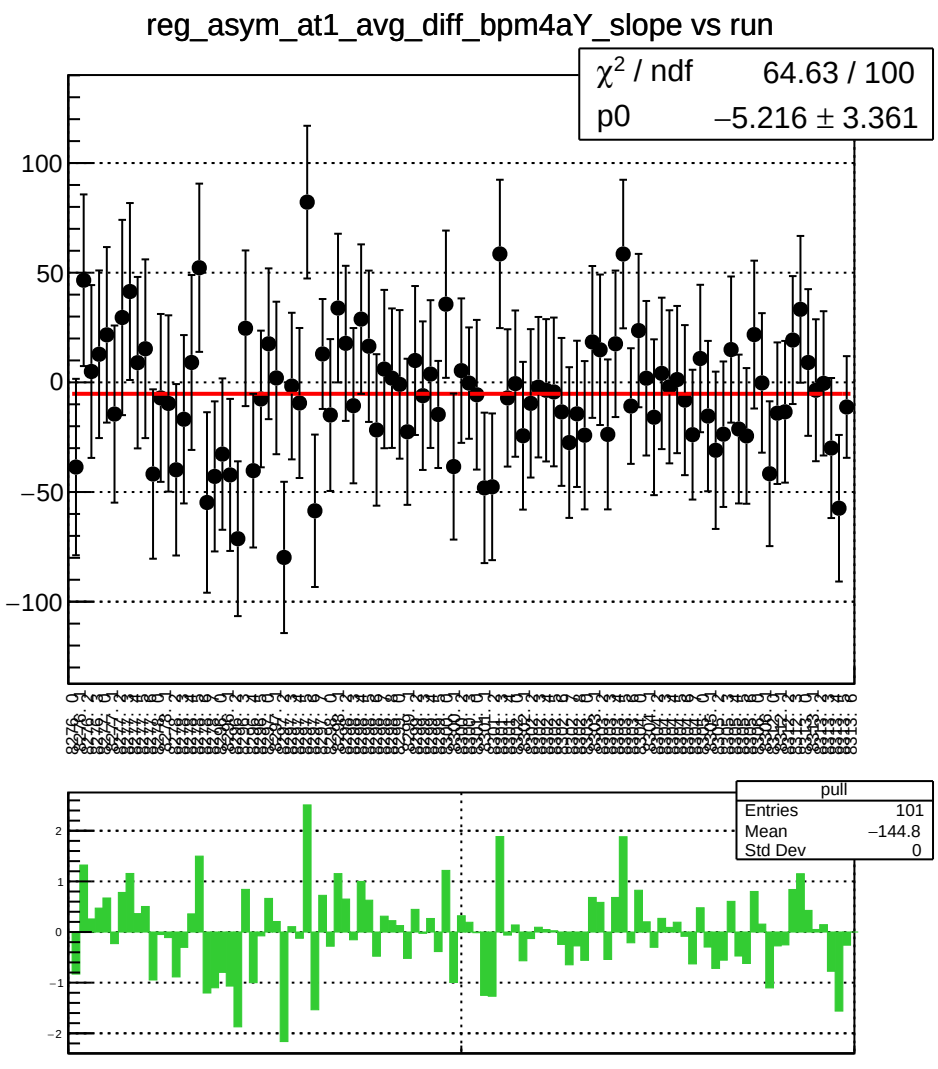

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.978 / 100
p0 0.5301 ± 11.39
250
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 101
Mean −877.3
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

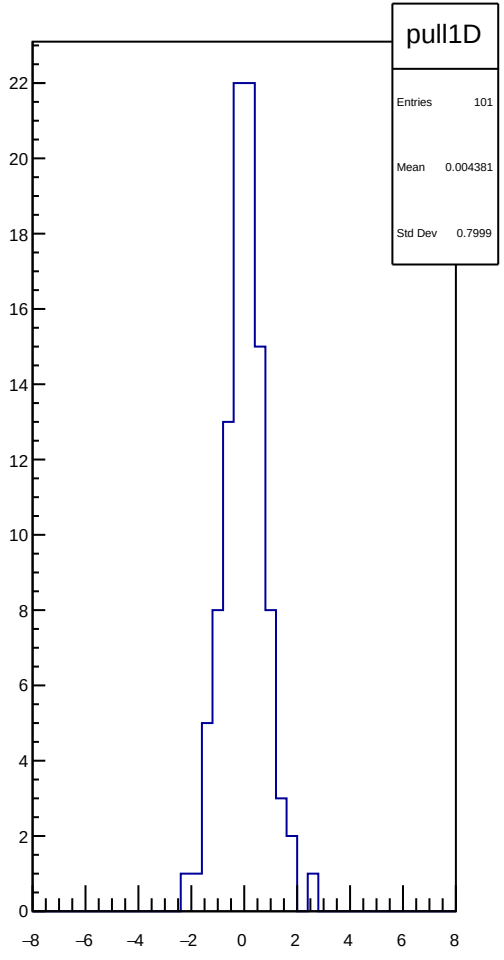

pull1D
Entries 101
Mean 0.001633
Std Dev 0.2628
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

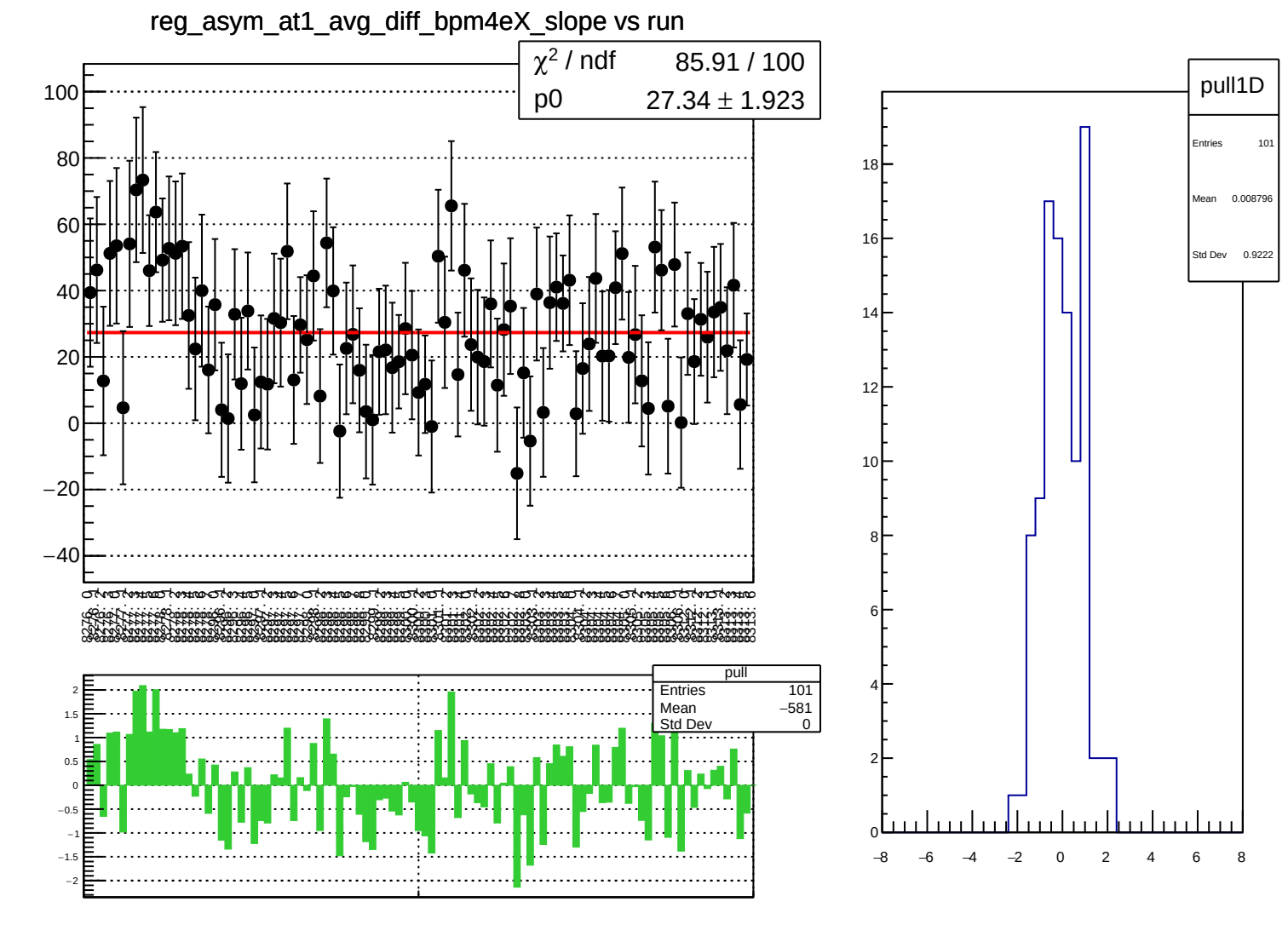

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 12.74 / 100
p0 128.1 ± 0.6054
pull
Entries 101
Mean −288.7
Std Dev 0
pull1D
Entries 101
Mean −0.006269
Std Dev 0.3551

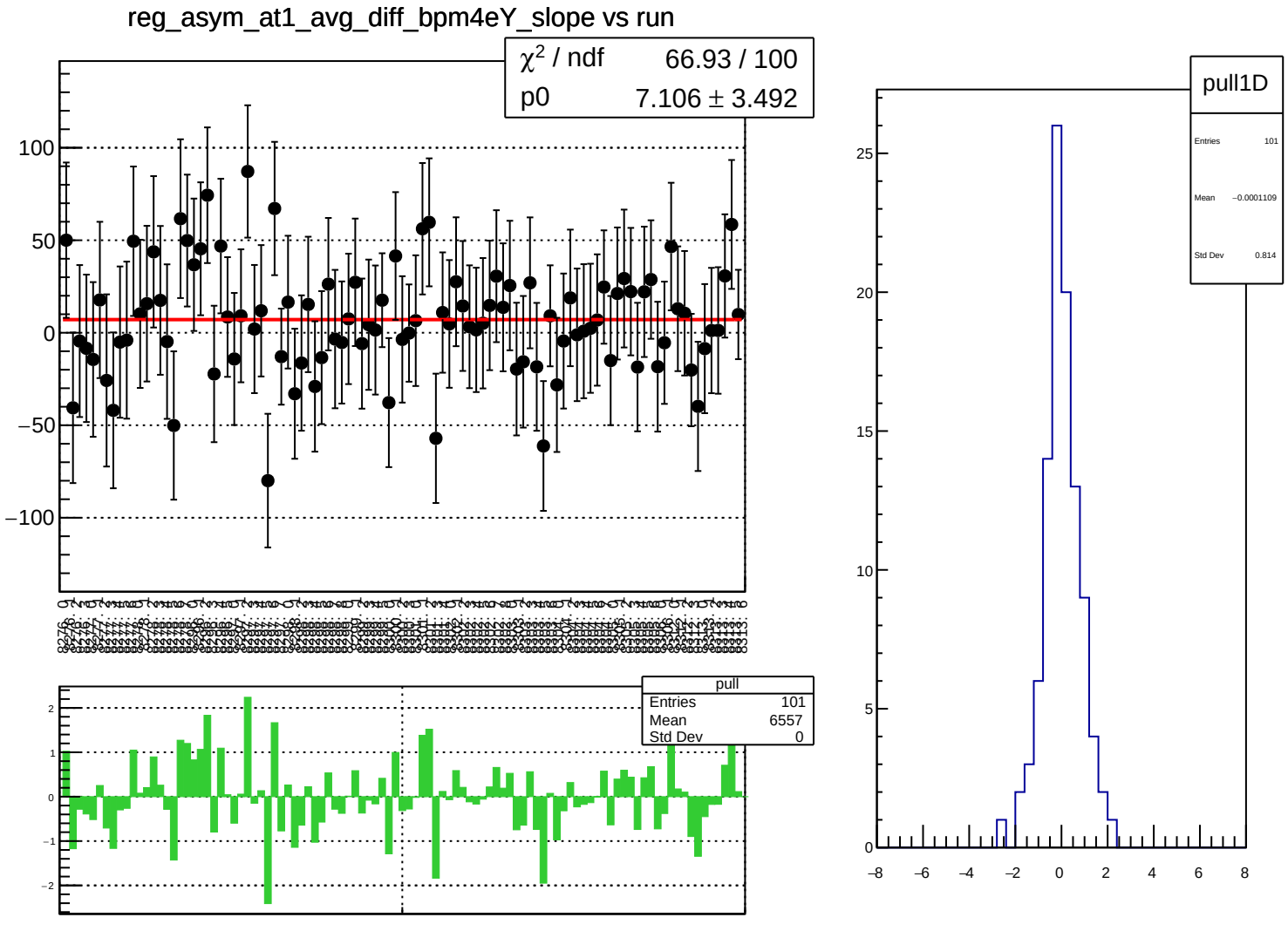

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 96.54 / 100
p0 −42.69 ± 1.722
pull
Entries 101
Mean −581.1
Std Dev 0

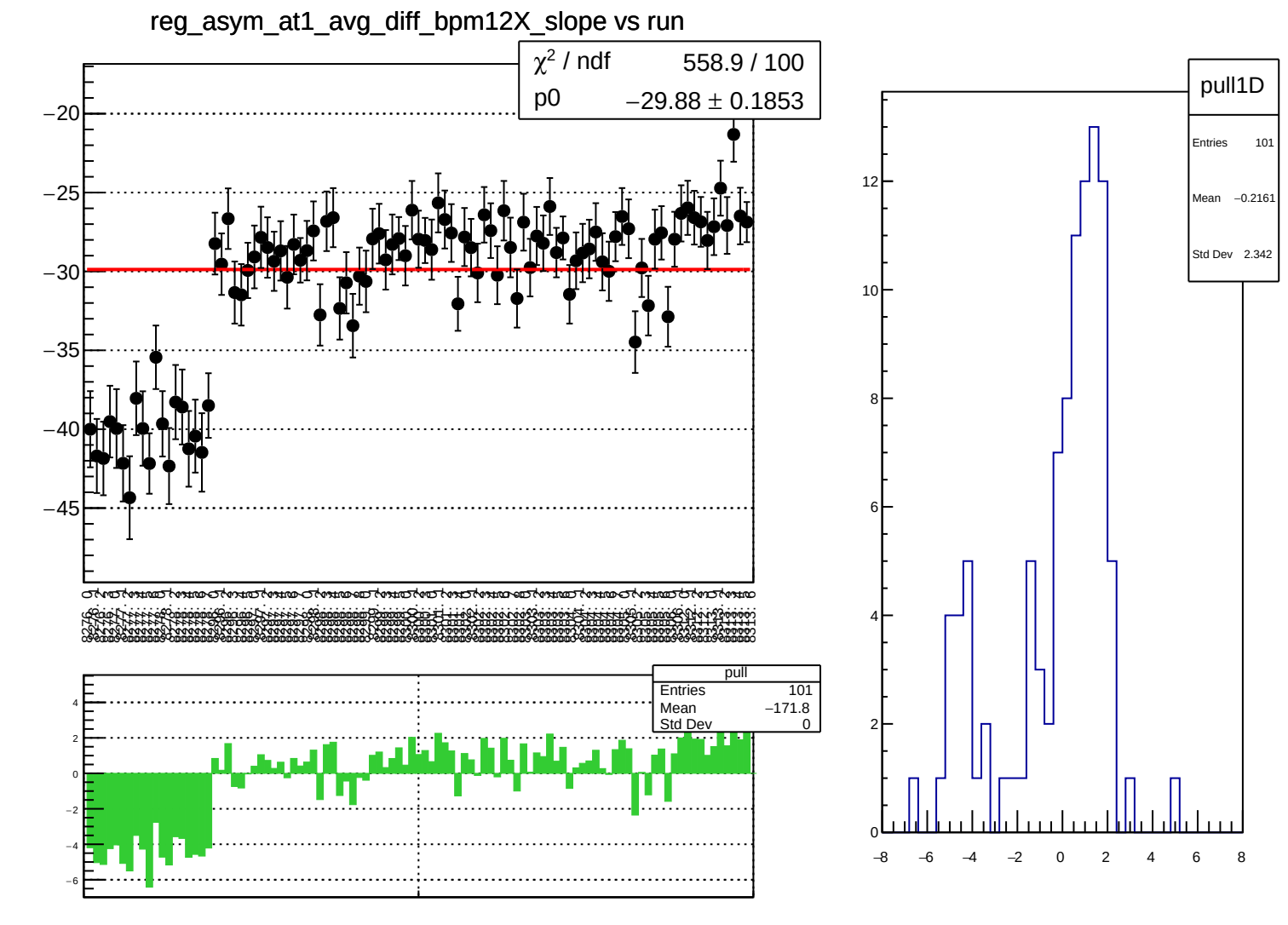

pull1D
Entries 101
Mean −0.009916
Std Dev 0.9776

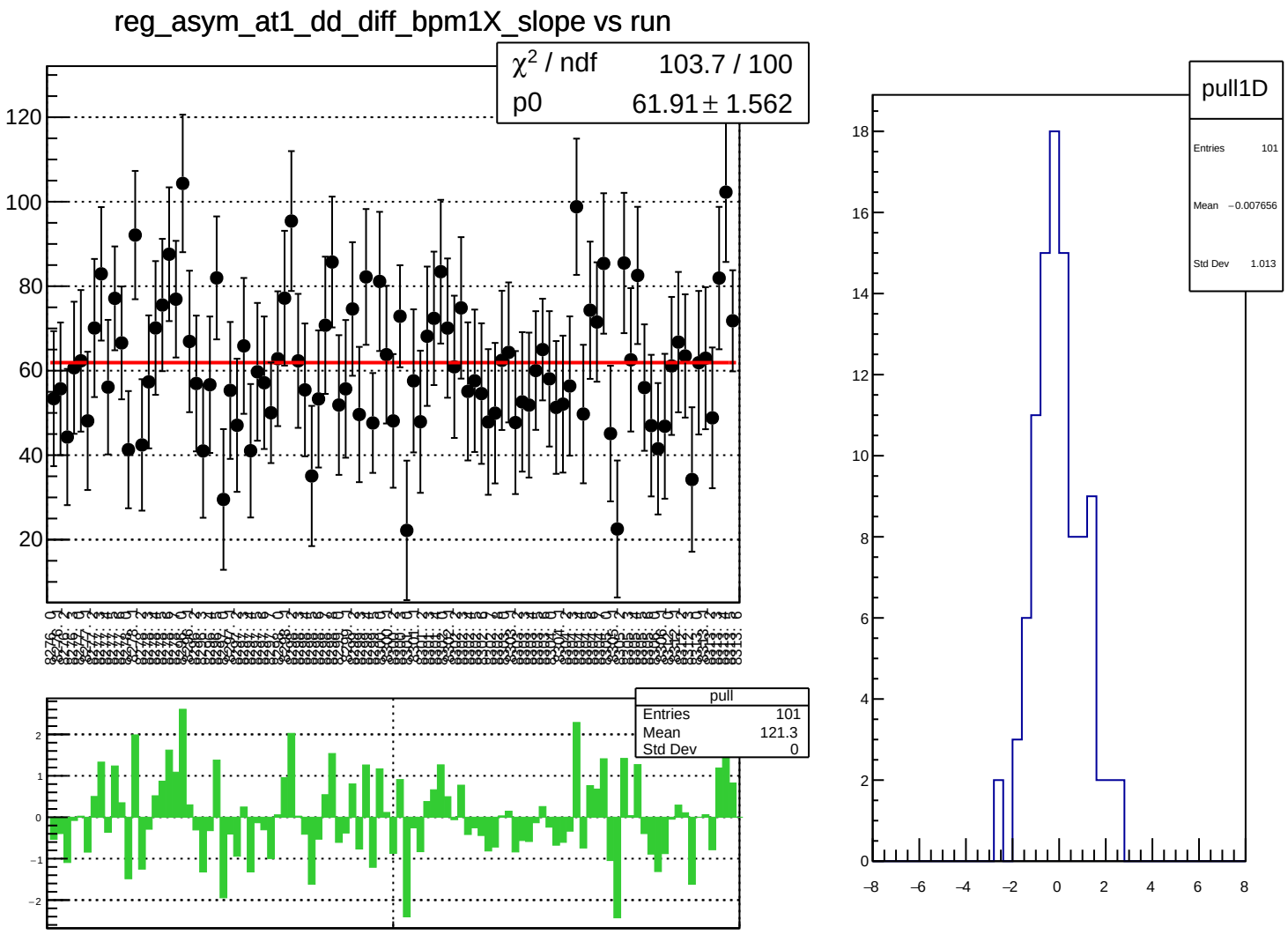

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 64.63 / 100
p0 −5.216 ± 3.361
100
50
0
−50
−100
pull
Entries 101
Mean −144.8
Std Dev 0
2
1
0
−1
−2

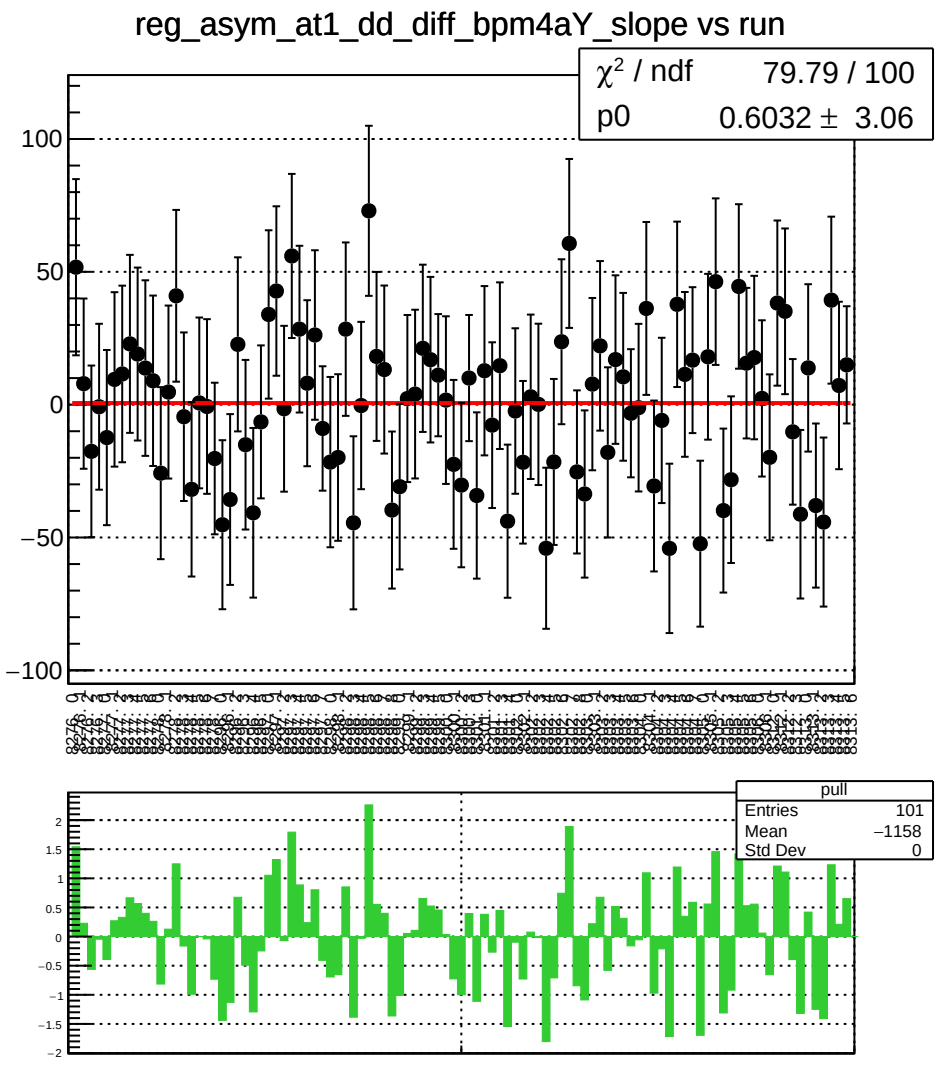

pull1D
Entries 101
Mean 0.004381
Std Dev 0.7999
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

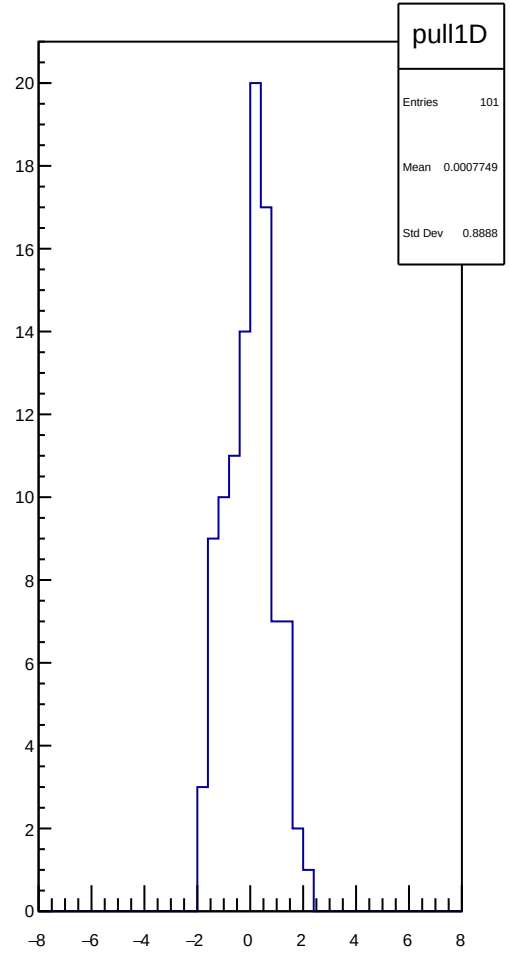

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 85.91 / 100
p0 27.34 ± 1.923
pull
Entries 101
Mean −581
Std Dev 0
pull1D
Entries 101
Mean 0.008796
Std Dev 0.9222

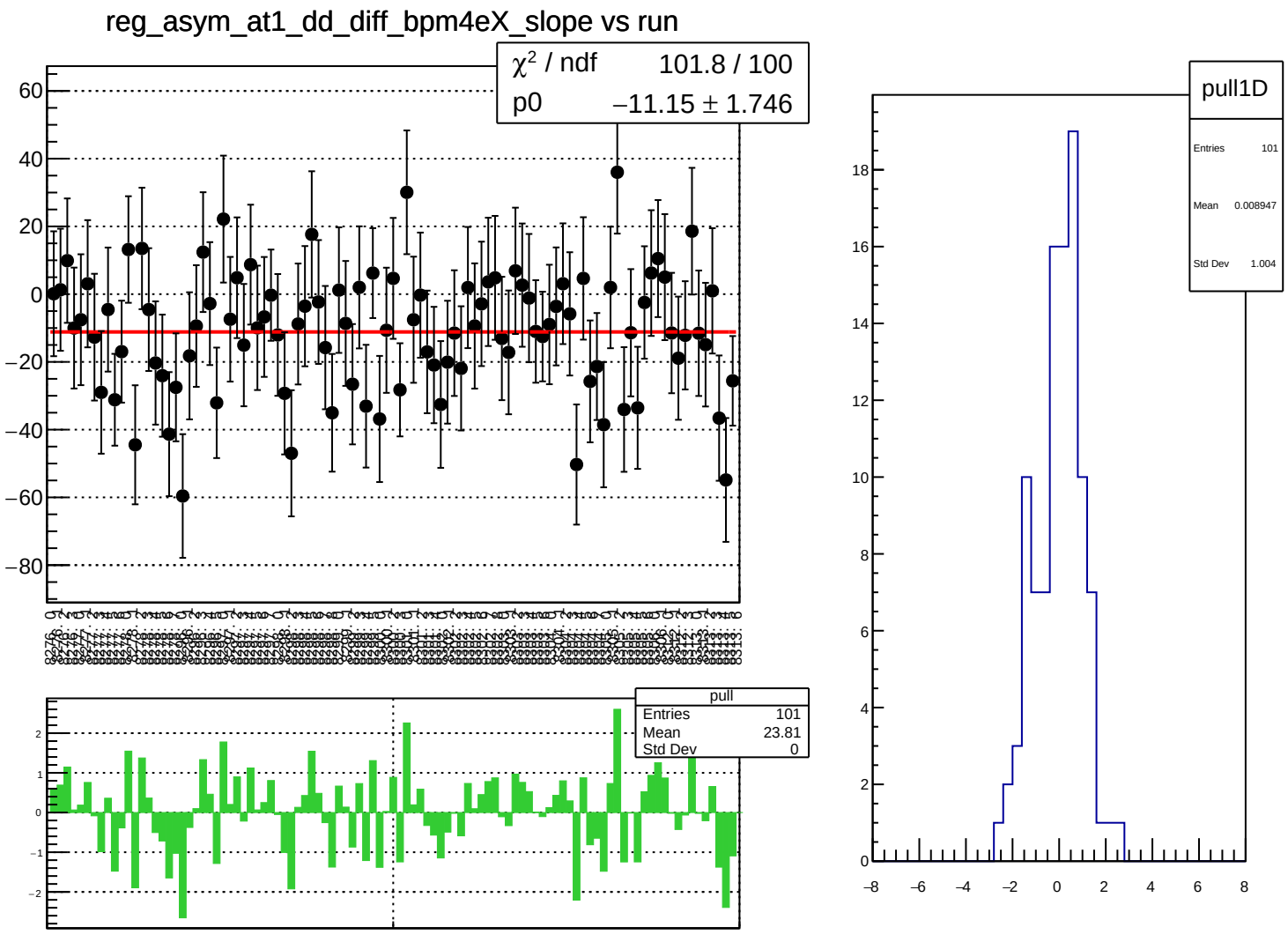

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 66.93 / 100
p0 7.106 ± 3.492
100
50
0
−50
−100
pull
Entries 101
Mean 6557
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.0001109
Std Dev 0.814
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

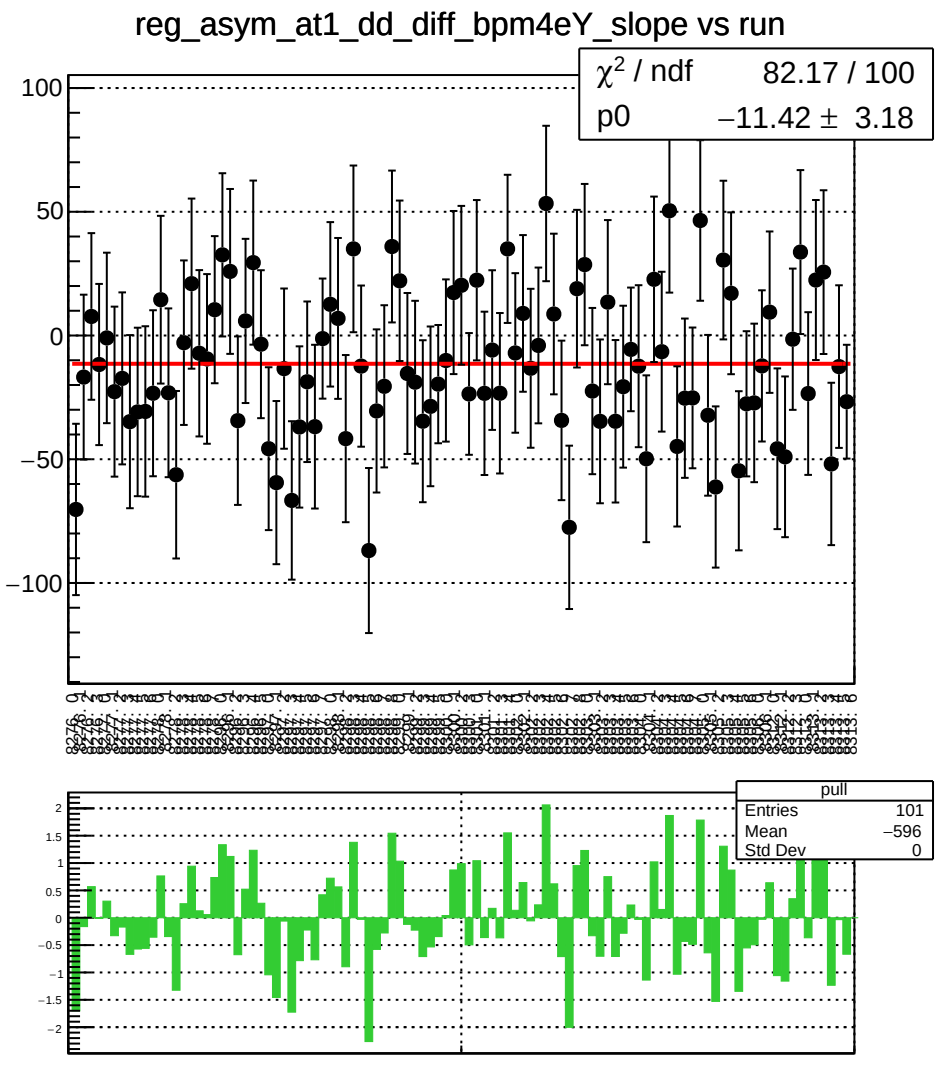

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 558.9 / 100
p0 −29.88 ± 0.1853
pull
Entries 101
Mean −171.8
Std Dev 0
pull1D
Entries 101
Mean −0.2161
Std Dev 2.342

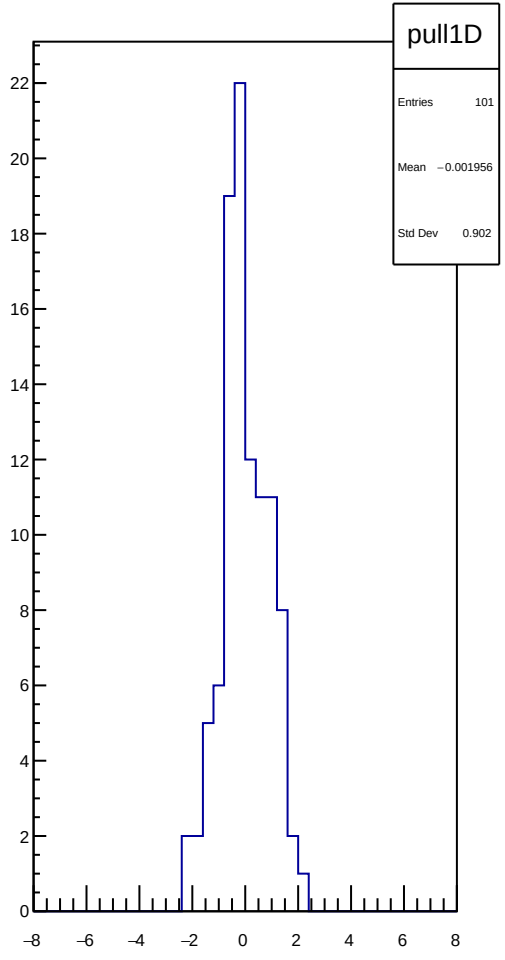

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 103.7 / 100
p0 61.91 ± 1.562
pull
Entries 101
Mean 121.3
Std Dev 0
pull1D
Entries 101
Mean −0.007656
Std Dev 1.013

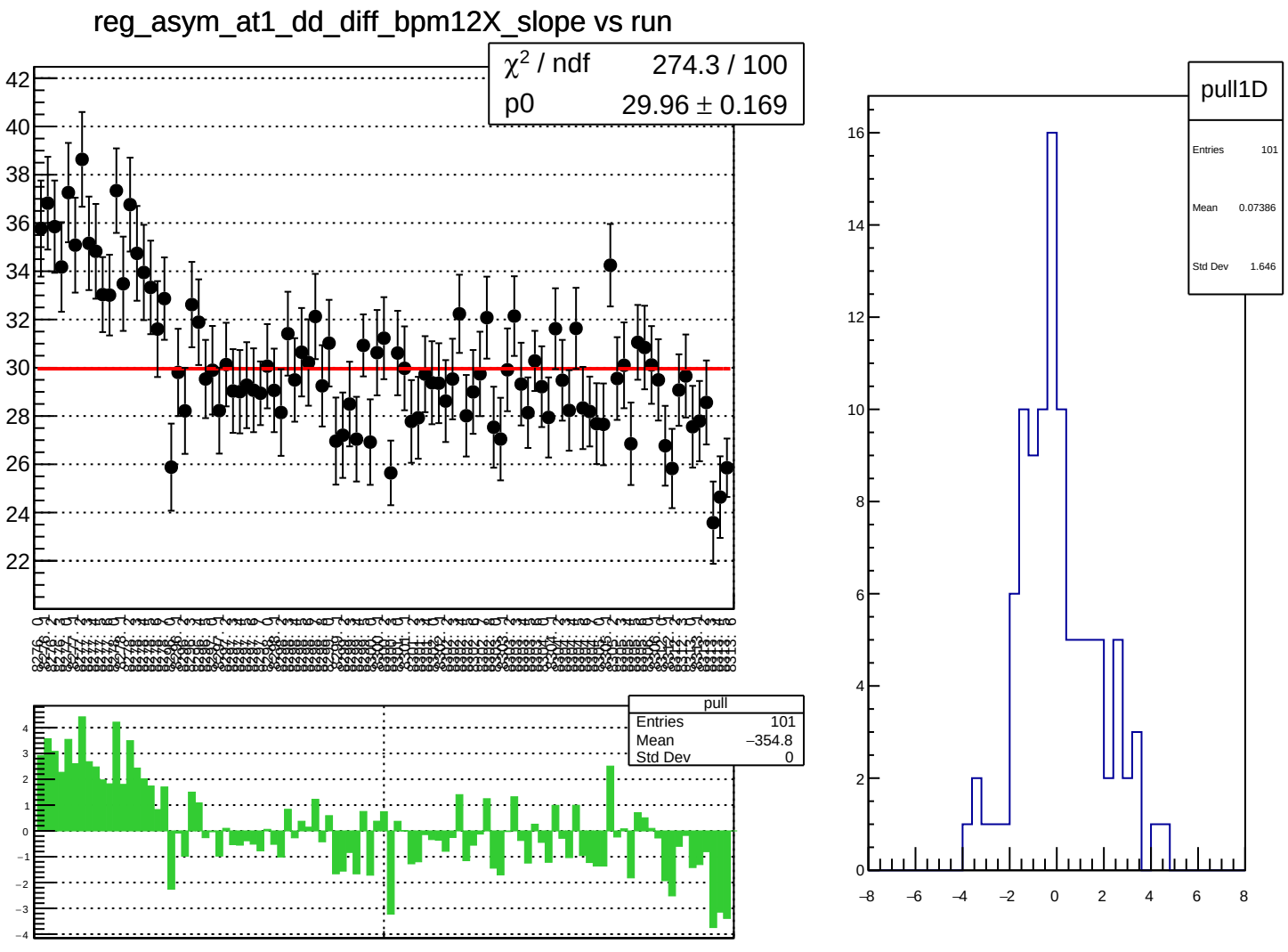

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 79.79 / 100
p0 0.6032 ± 3.06
100
50
0
−50
−100
pull
Entries 101
Mean −1158
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

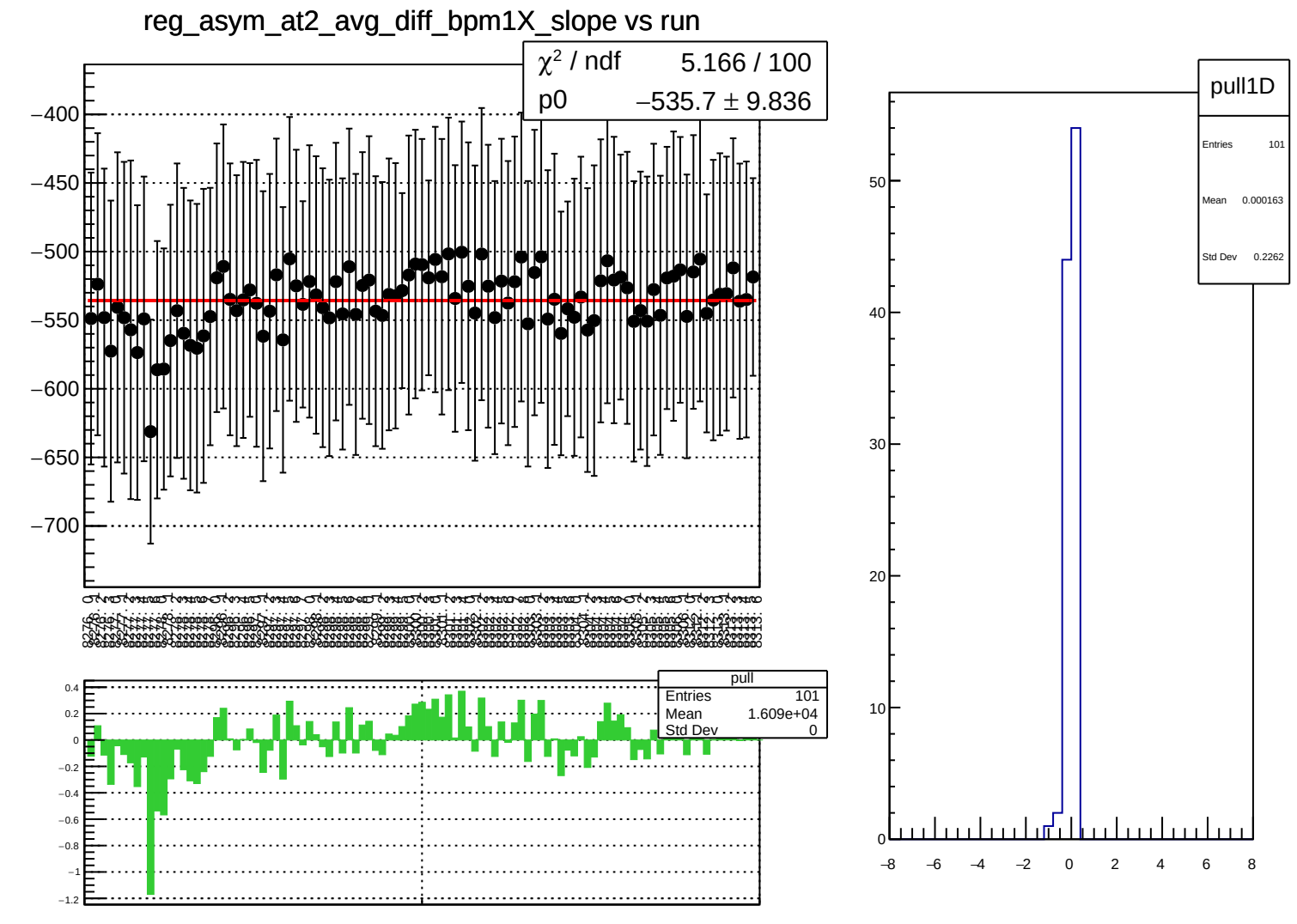

pull1D
Entries 101
Mean 0.0007749
Std Dev 0.8888
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

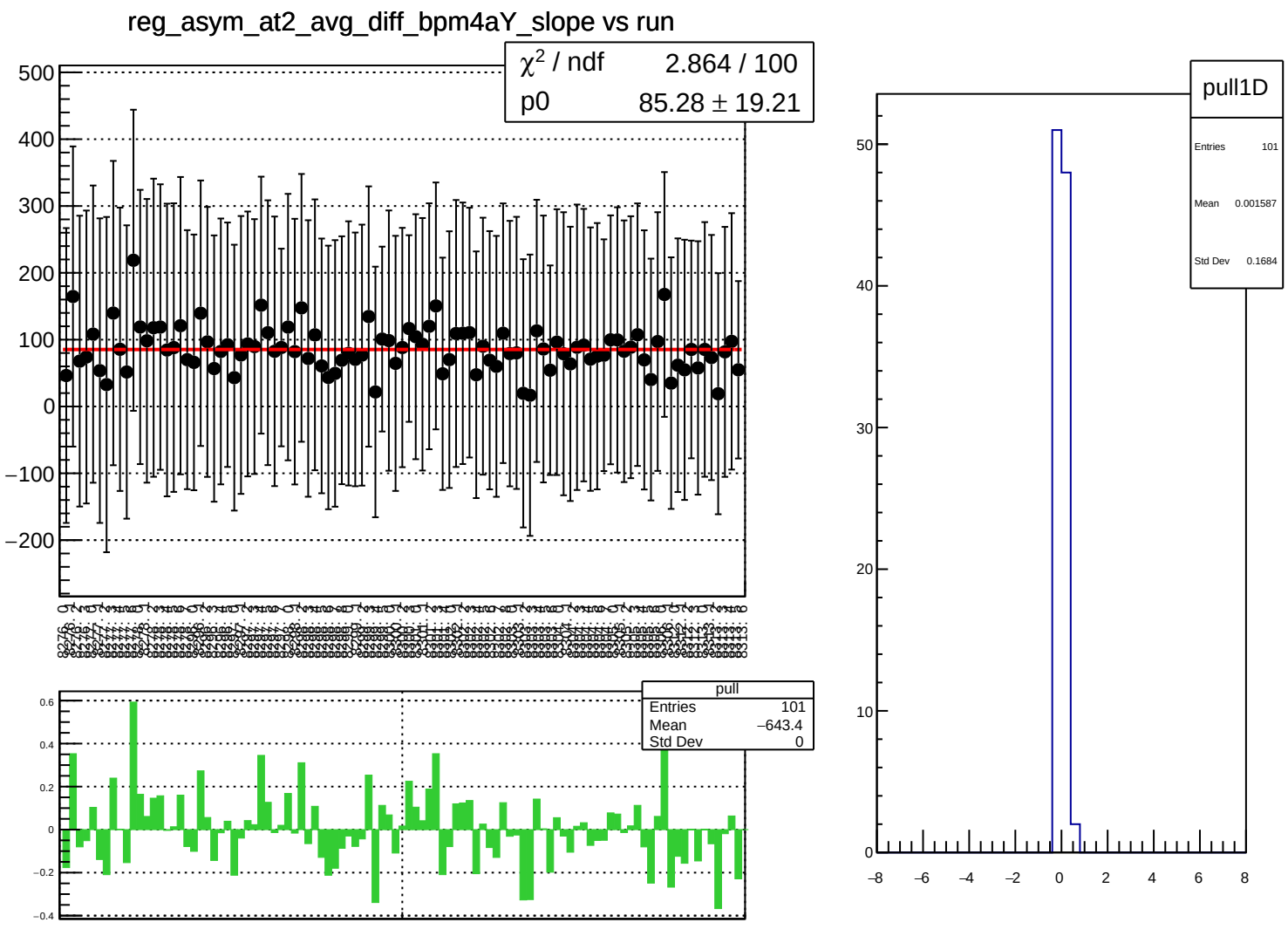

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 101.8 / 100
p0 −11.15 ± 1.746
pull
Entries 101
Mean 23.81
Std Dev 0
pull1D
Entries 101
Mean 0.008947
Std Dev 1.004

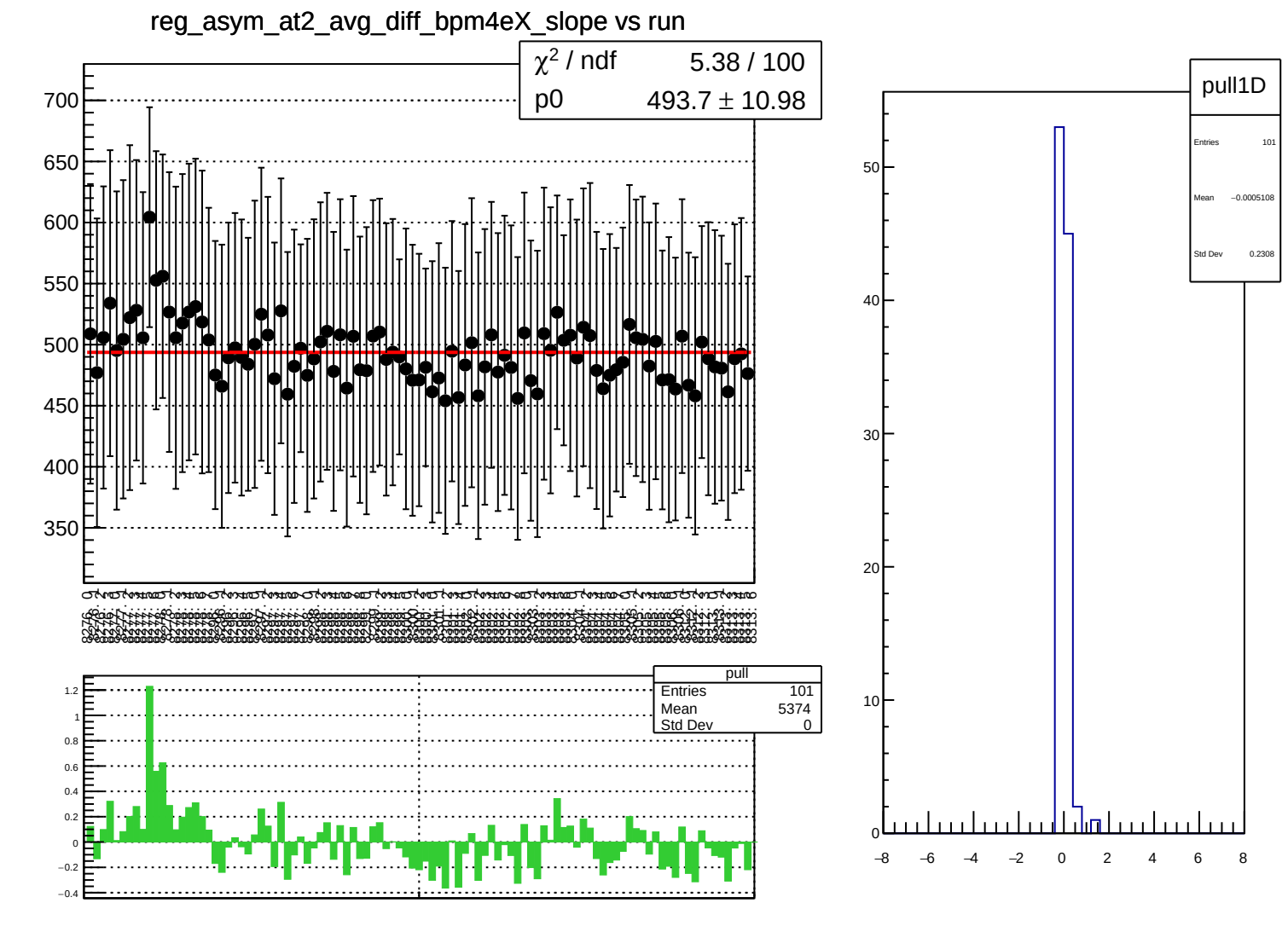

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 82.17 / 100
p0 −11.42 ± 3.18
100
50
0
−50
−100
pull
Entries 101
Mean −596
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

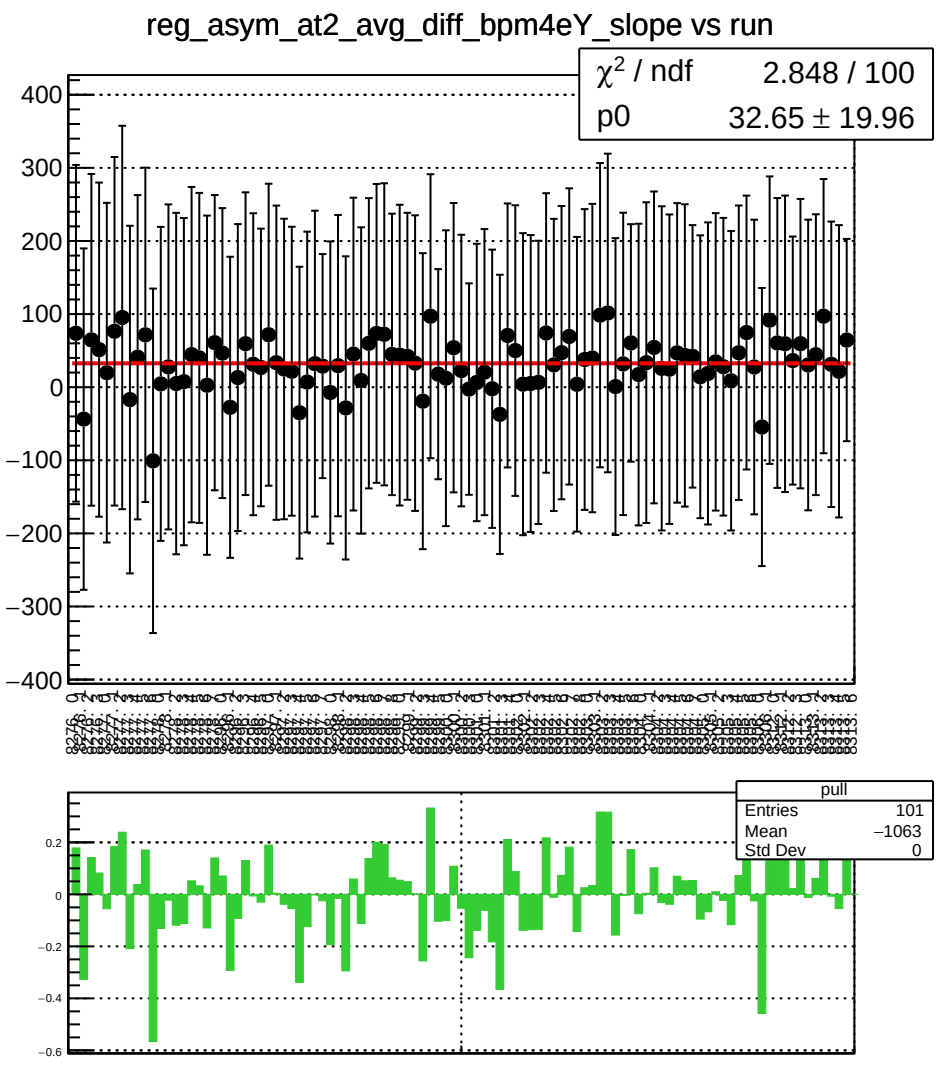

pull1D
Entries 101
Mean −0.001956
Std Dev 0.902
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

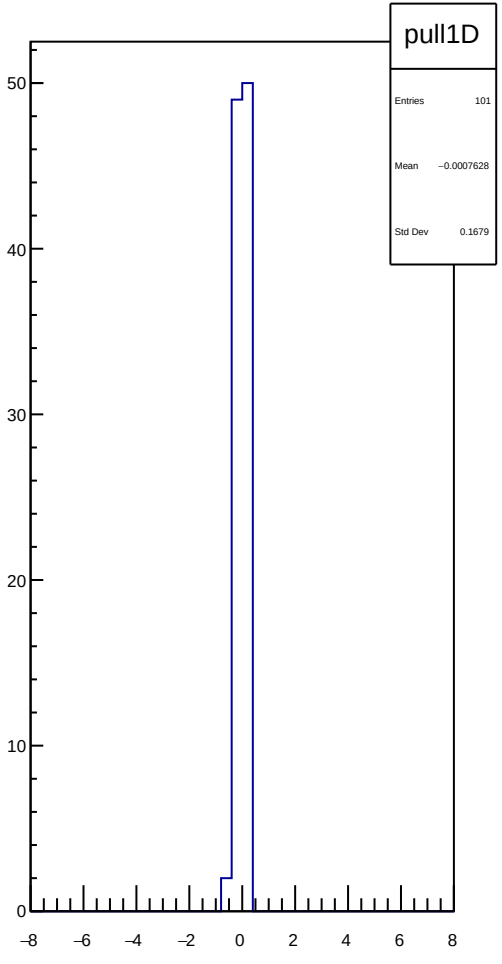

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 274.3 / 100
p0 29.96 ± 0.169
pull
Entries 101
Mean −354.8
Std Dev 0
pull1D
Entries 101
Mean 0.07386
Std Dev 1.646

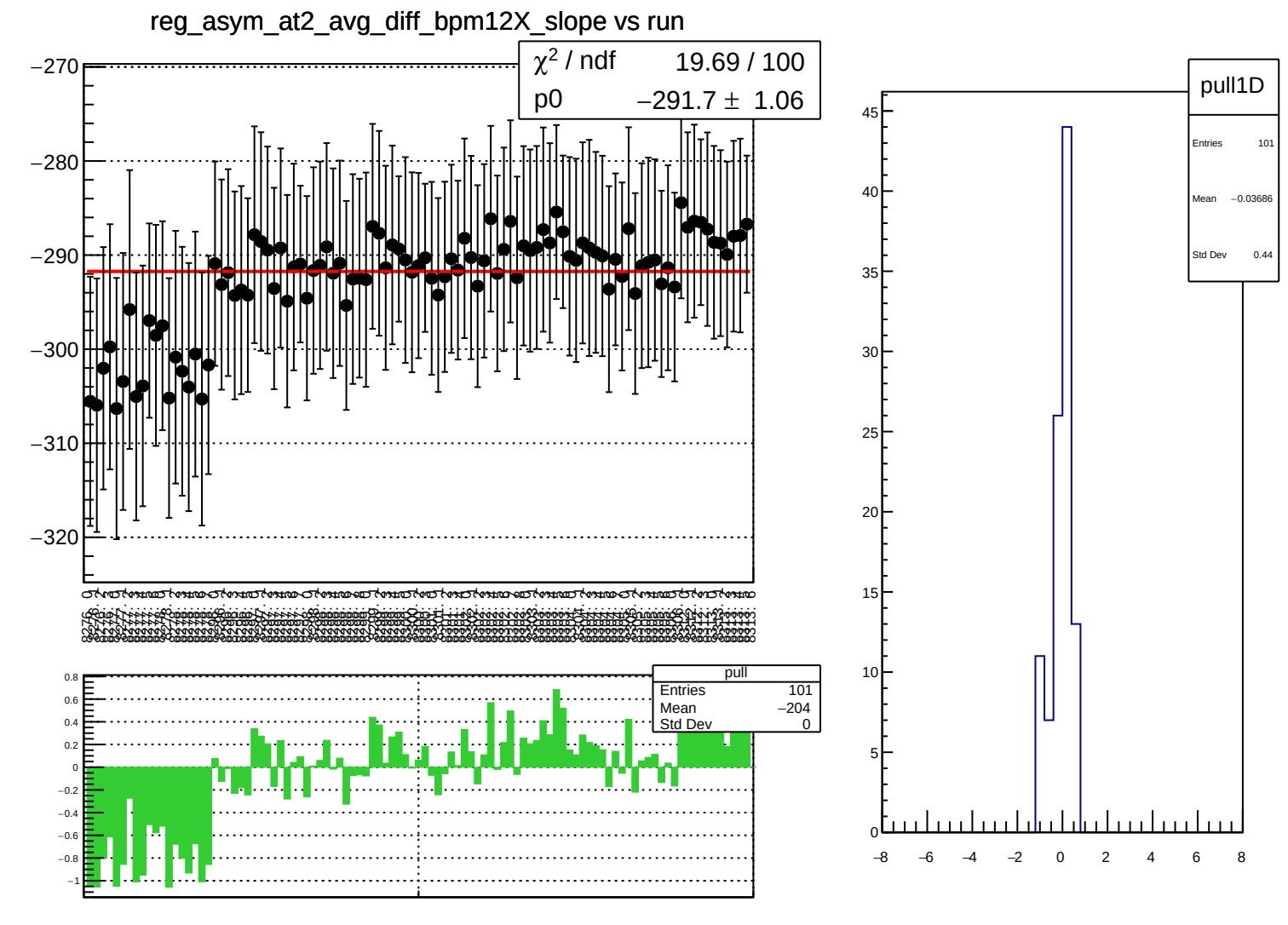

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 5.166 / 100
p0 −535.7 ± 9.836
−400
−450
−500
−550
−600
−650
−700
pull
Entries 101
Mean 1.609e+04
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 101
Mean 0.000163
Std Dev 0.2262
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

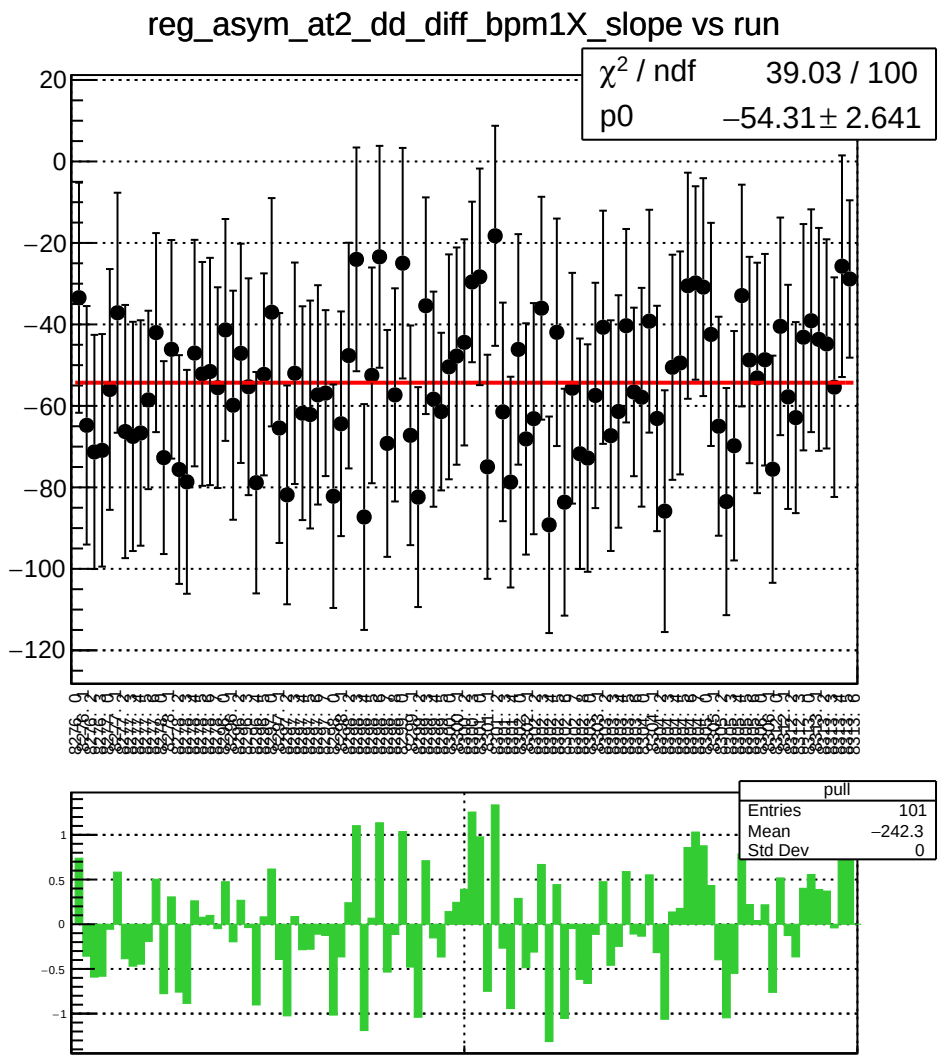

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.864 / 100
p0 85.28 ± 19.21
pull
Entries 101
Mean −643.4
Std Dev 0
pull1D
Entries 101
Mean 0.001587
Std Dev 0.1684

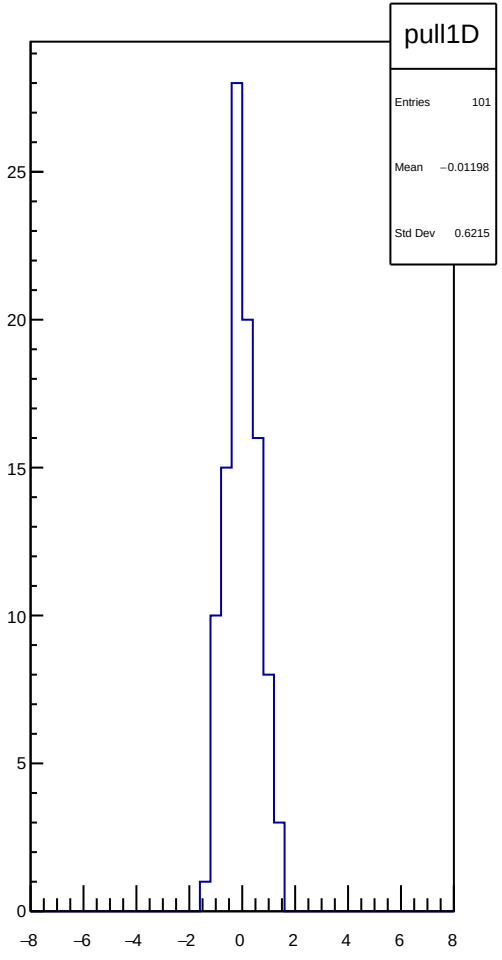

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.38 / 100
p0 493.7 ± 10.98
700
650
600
550
500
450
400
350
pull
Entries 101
Mean 5374
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 101
Mean −0.0005108
Std Dev 0.2308
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

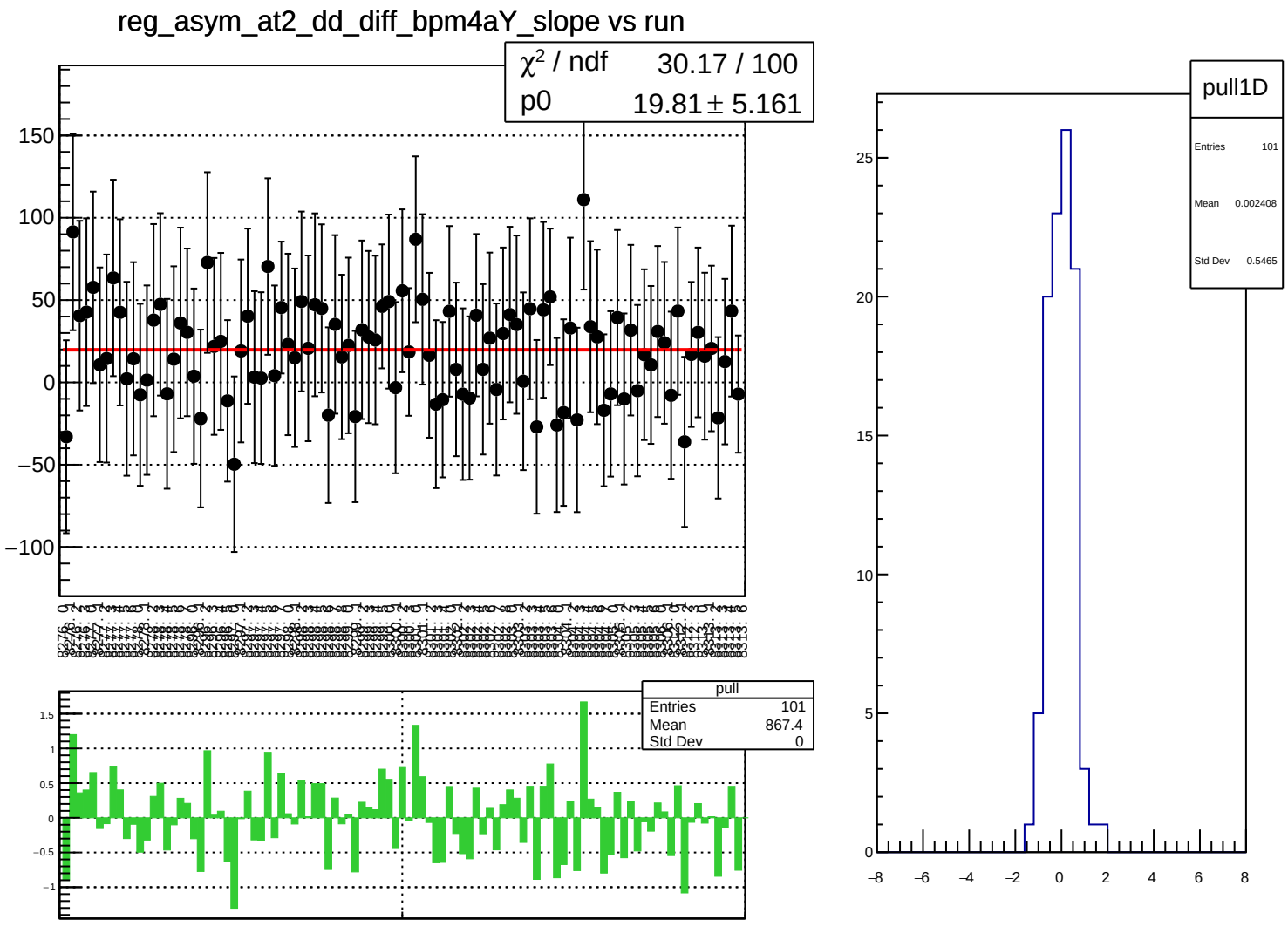

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.848 / 100
p0 32.65 ± 19.96
pull
Entries 101
Mean −1063
Std Dev 0

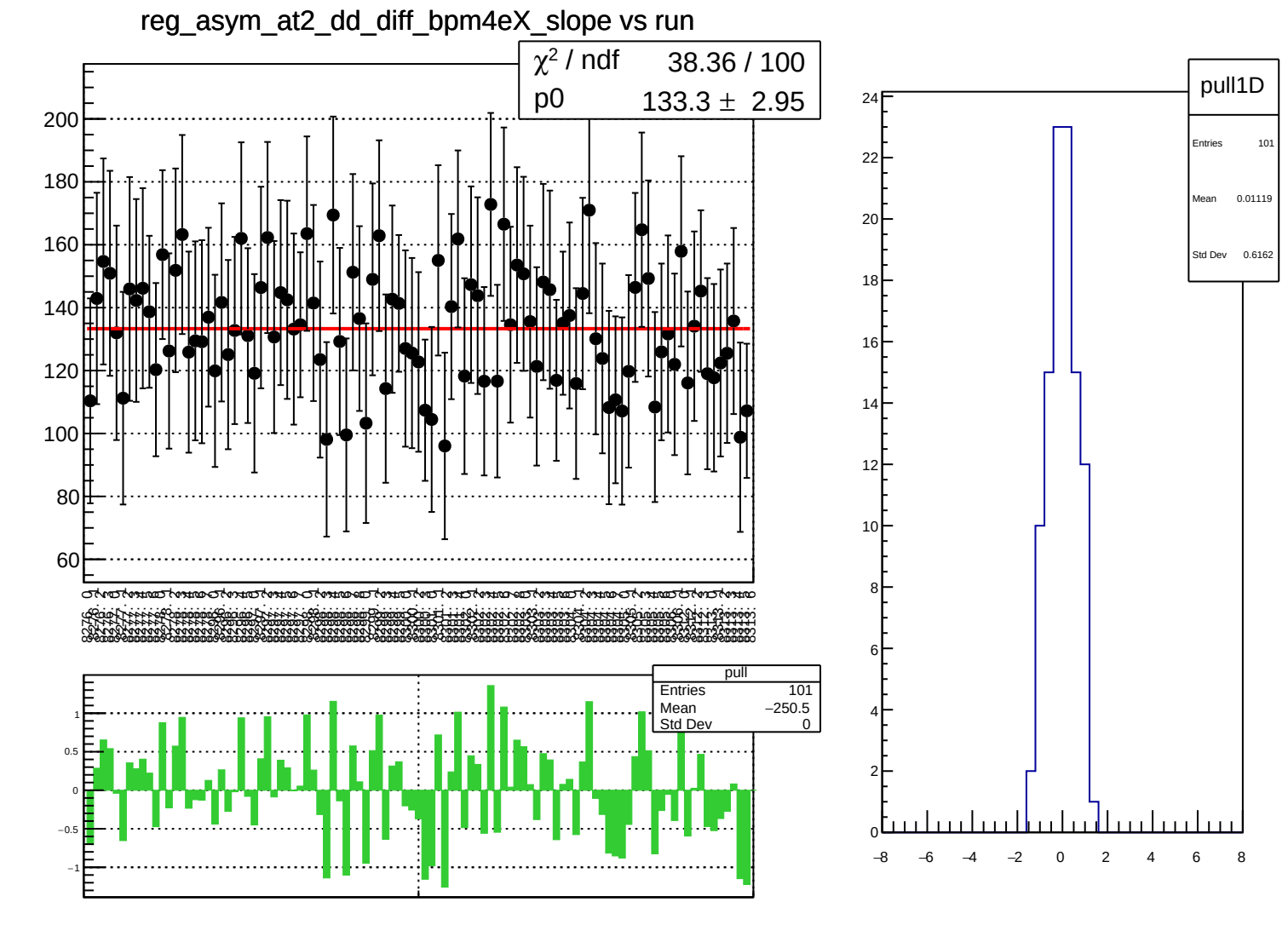

pull1D
Entries 101
Mean −0.0007628
Std Dev 0.1679

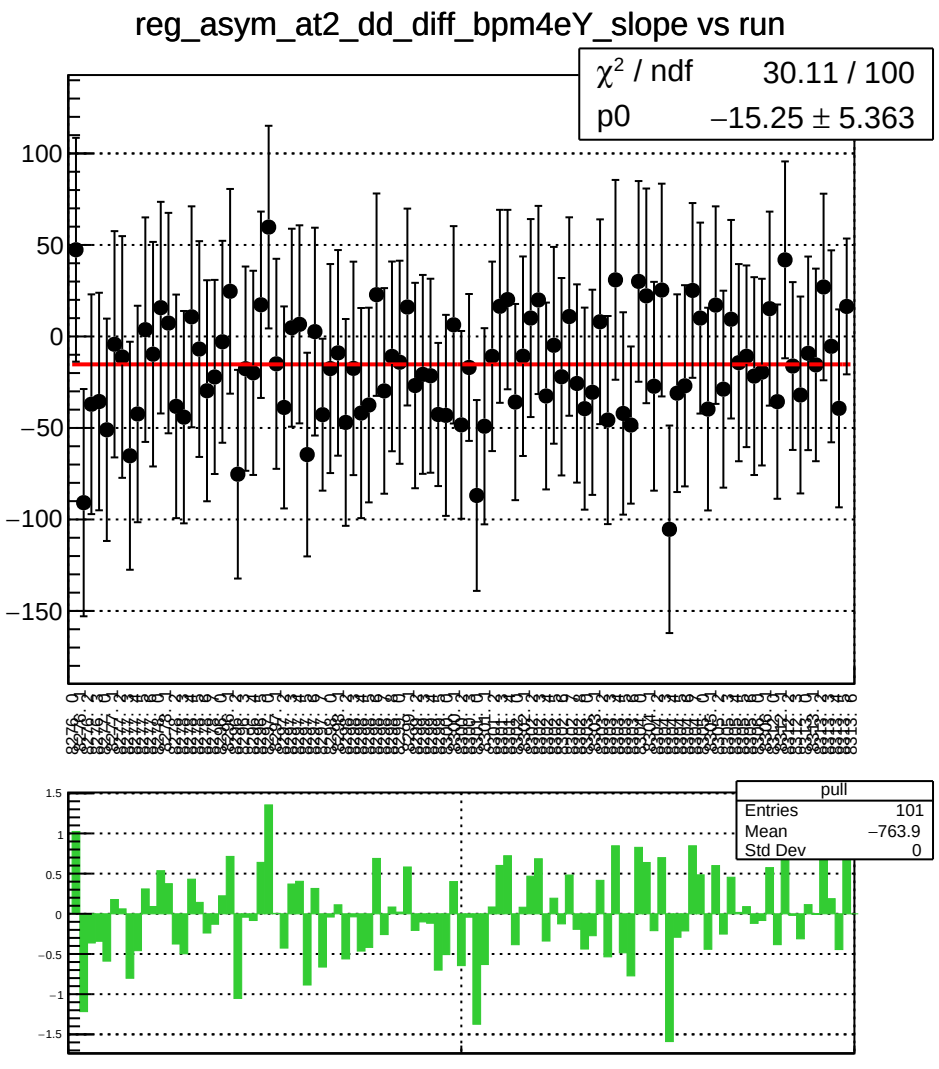

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 19.69 / 100
p0 −291.7 ± 1.06
−270
−280
−290
−300
−310
−320
pull
Entries 101
Mean −204
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 101
Mean −0.03686
Std Dev 0.44
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

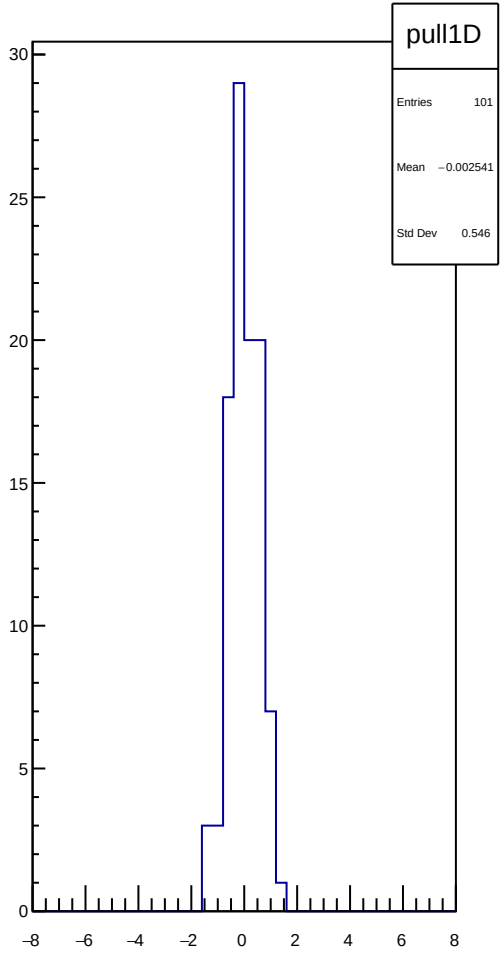

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 39.03 / 100
p0 −54.31 ± 2.641
pull
Entries 101
Mean −242.3
Std Dev 0

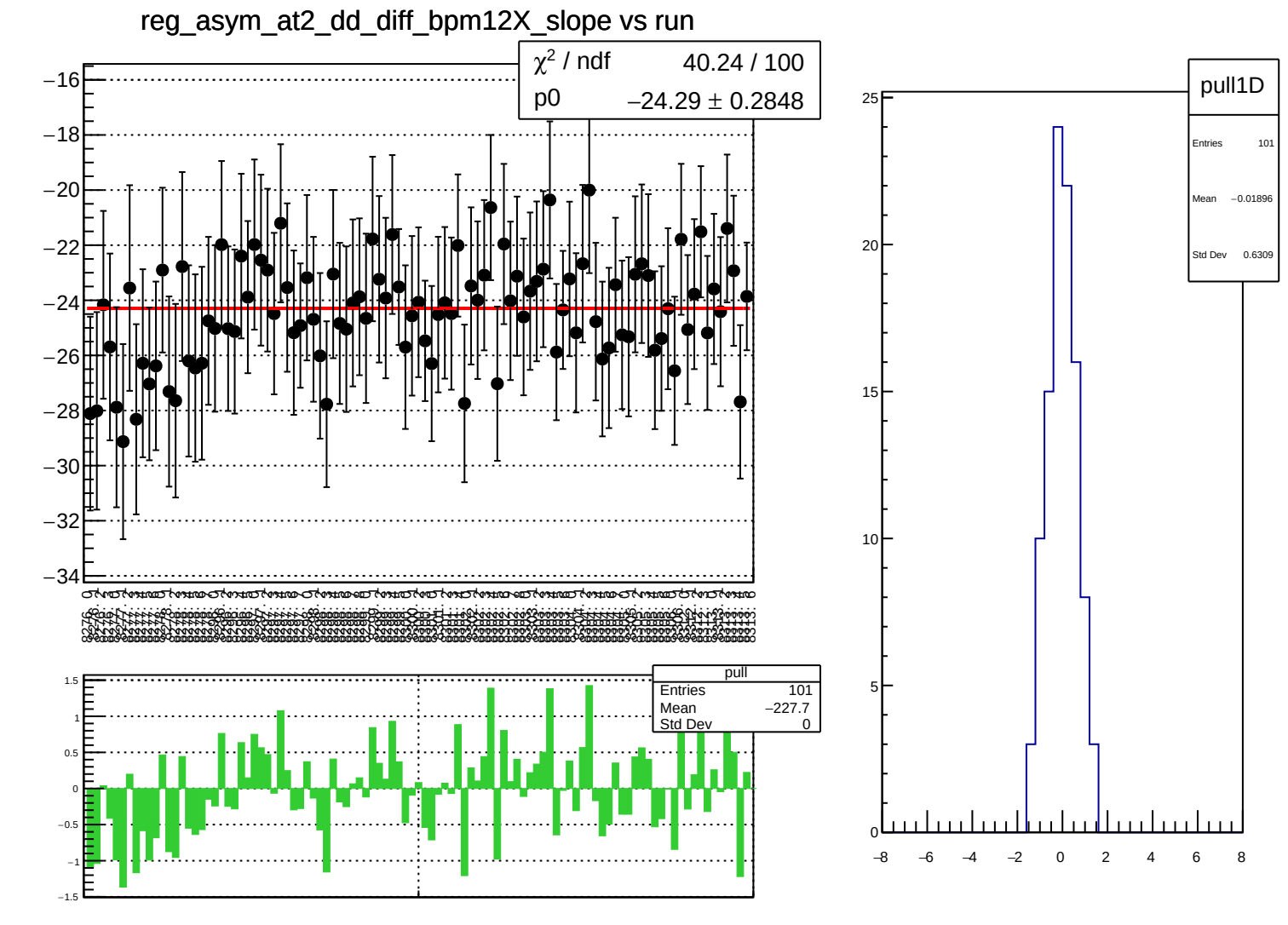

pull1D
Entries 101
Mean −0.01198
Std Dev 0.6215

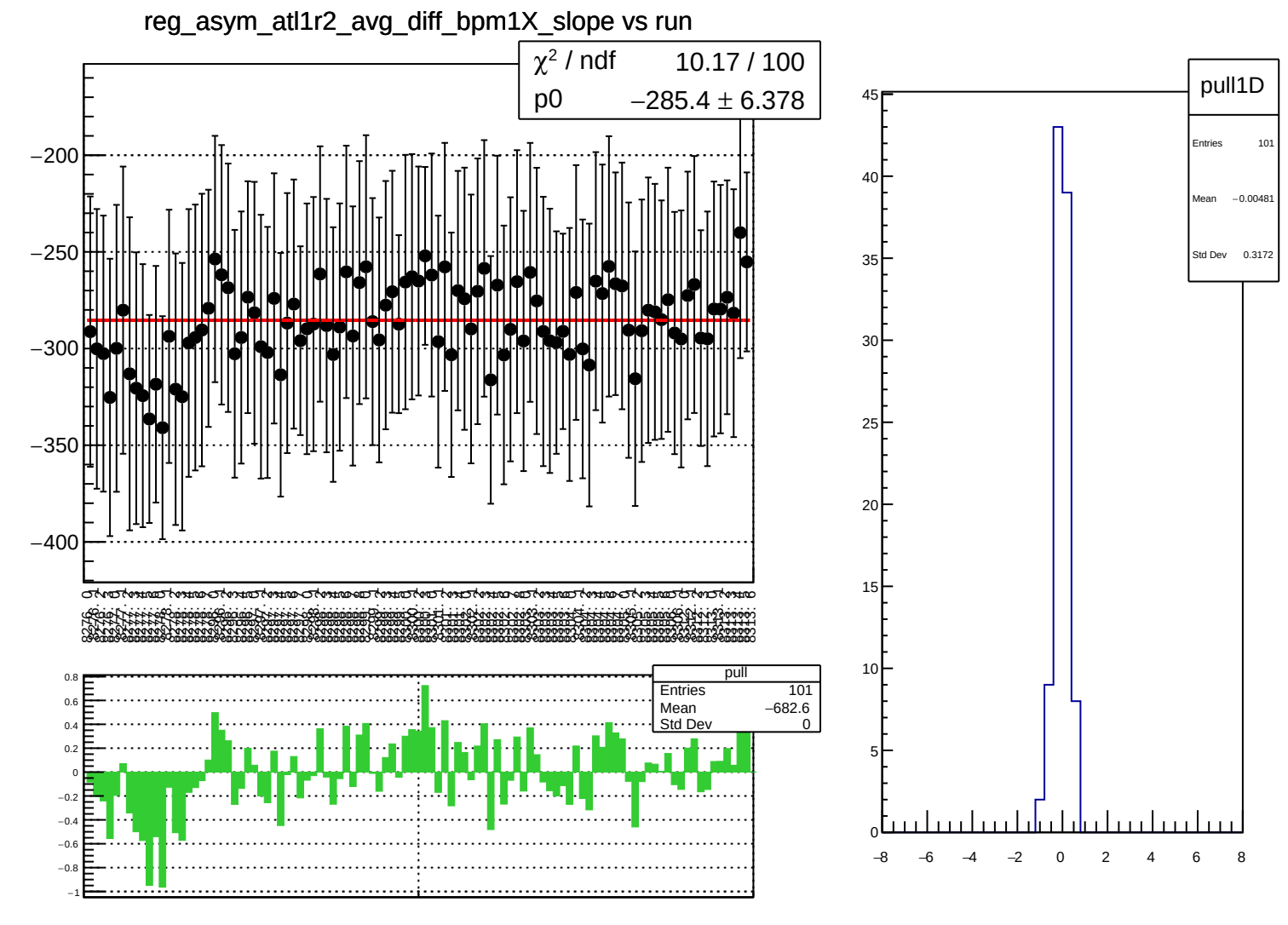

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 30.17 / 100
p0 19.81 ± 5.161
150
100
50
0
−50
−100
pull
Entries 101
Mean −867.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 101
Mean 0.002408
Std Dev 0.5465
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

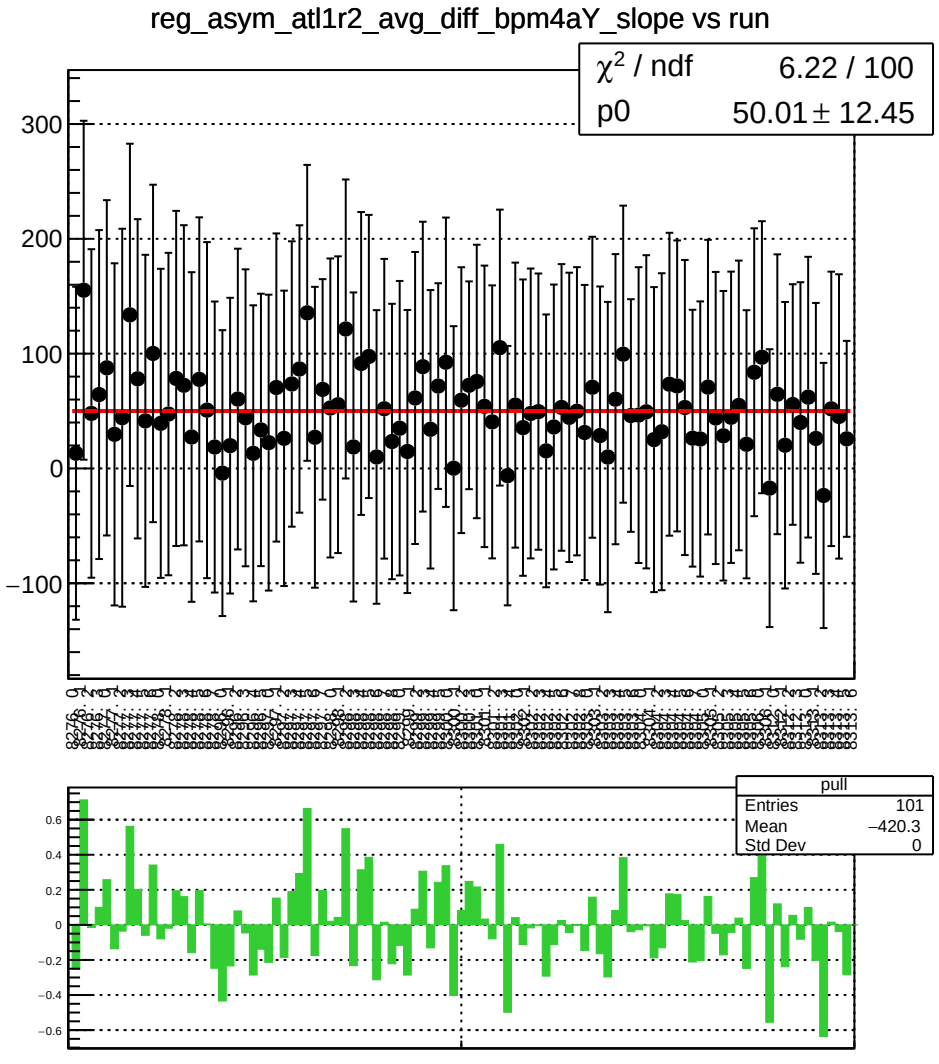

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 38.36 / 100
p0 133.3 ± 2.95
pull
Entries 101
Mean −250.5
Std Dev 0
pull1D
Entries 101
Mean 0.01119
Std Dev 0.6162

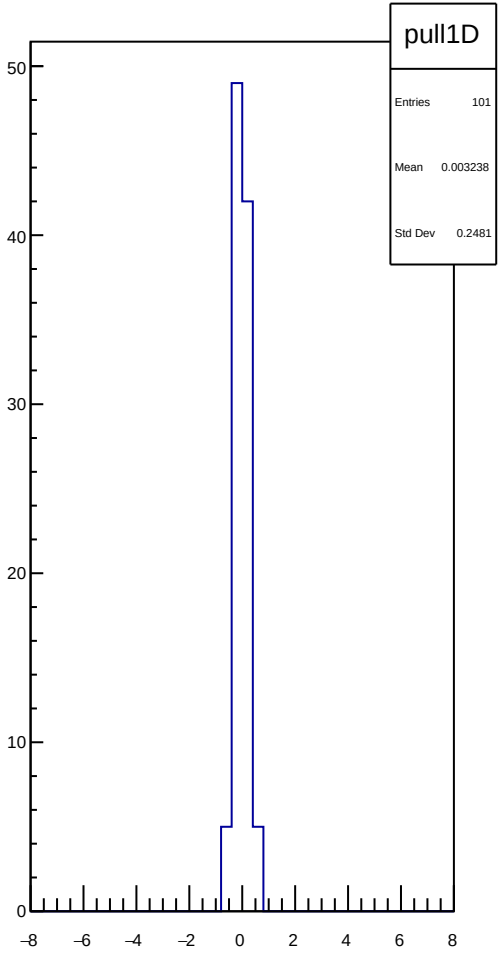

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 30.11 / 100
p0 −15.25 ± 5.363
100
50
0
−50
−100
−150
pull
Entries 101
Mean −763.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

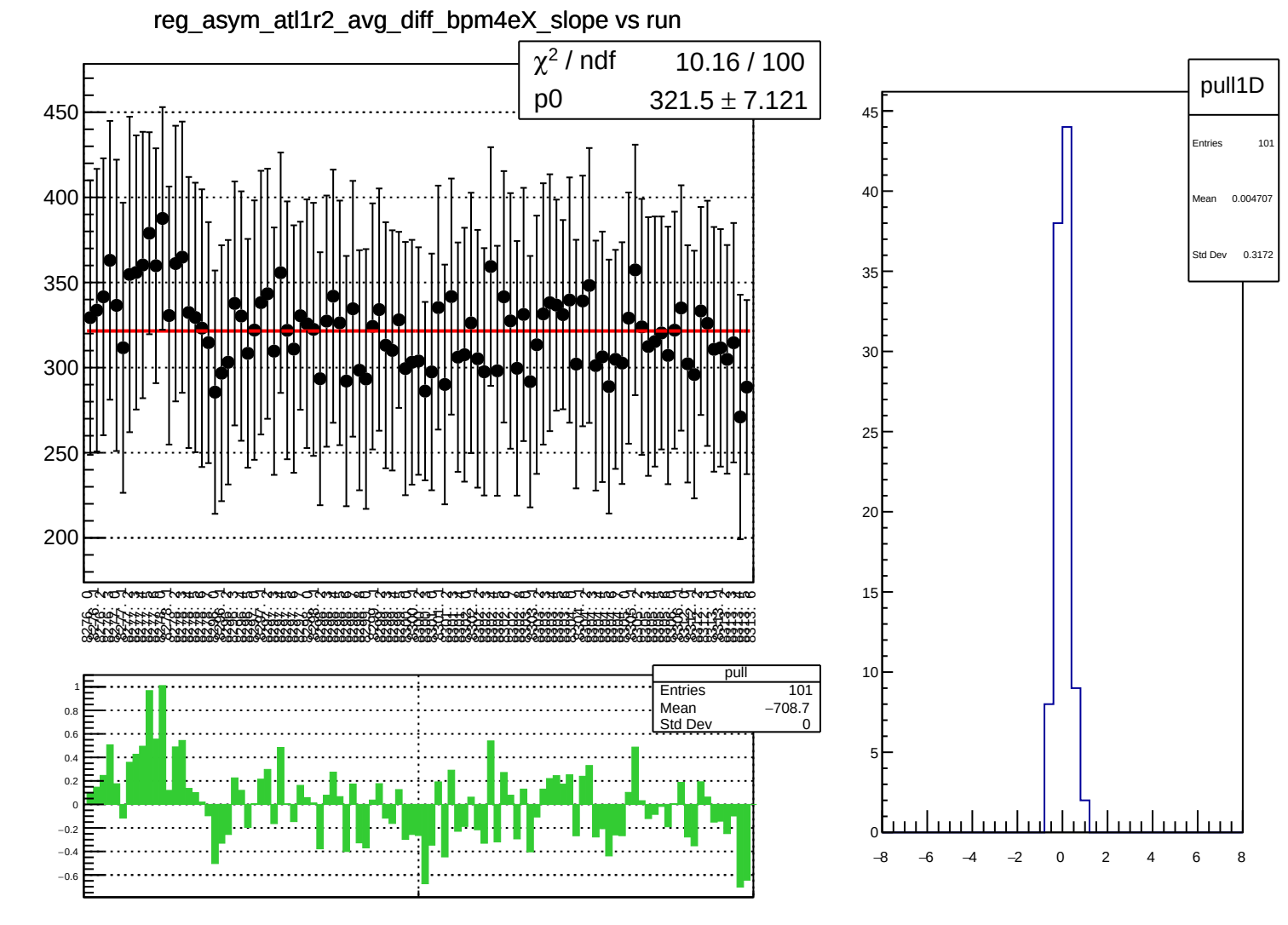

pull1D
Entries 101
Mean −0.002541
Std Dev 0.546
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

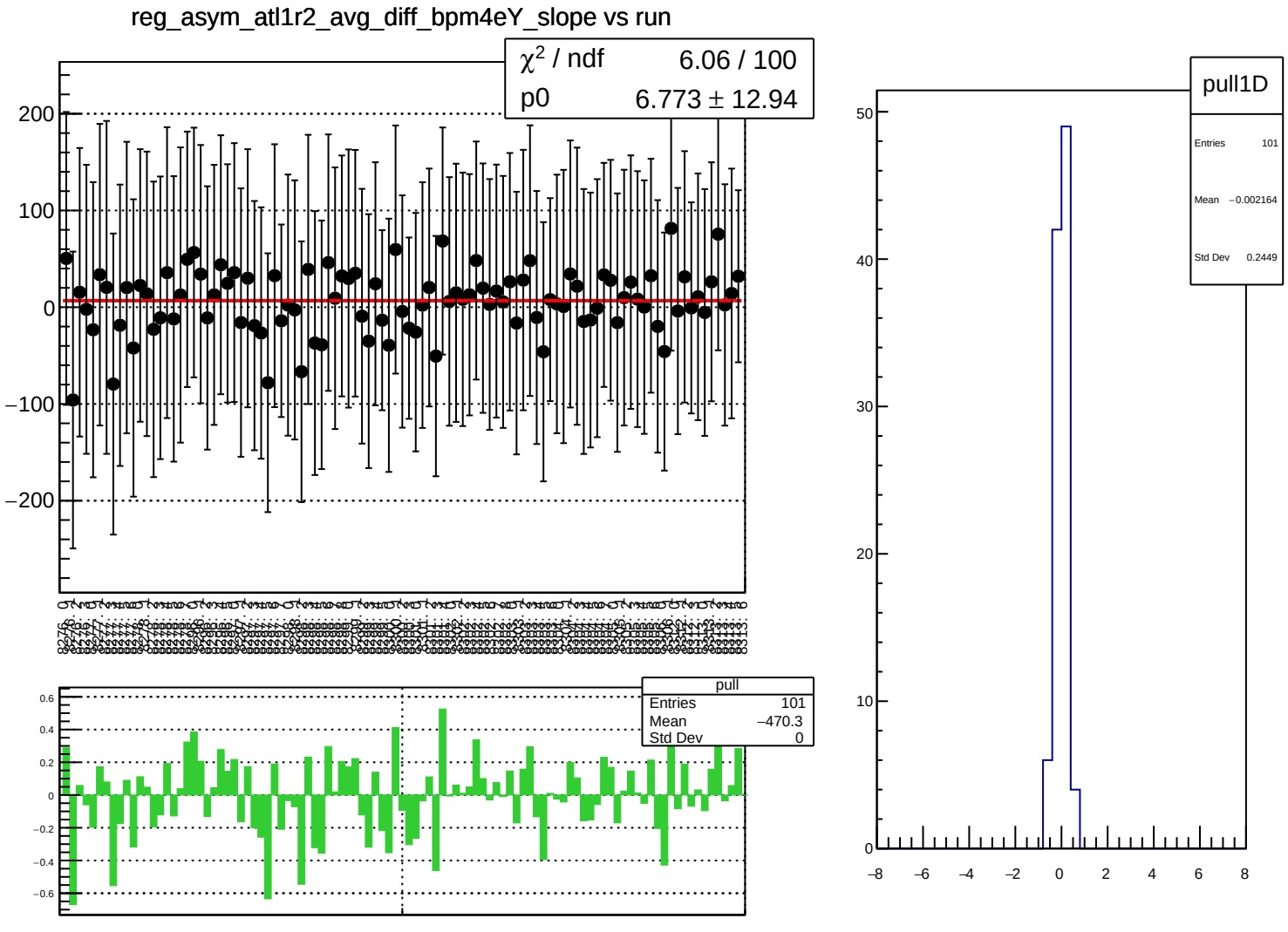

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 40.24 / 100
p0 −24.29 ± 0.2848
pull
Entries 101
Mean −227.7
Std Dev 0
pull1D
Entries 101
Mean −0.01896
Std Dev 0.6309

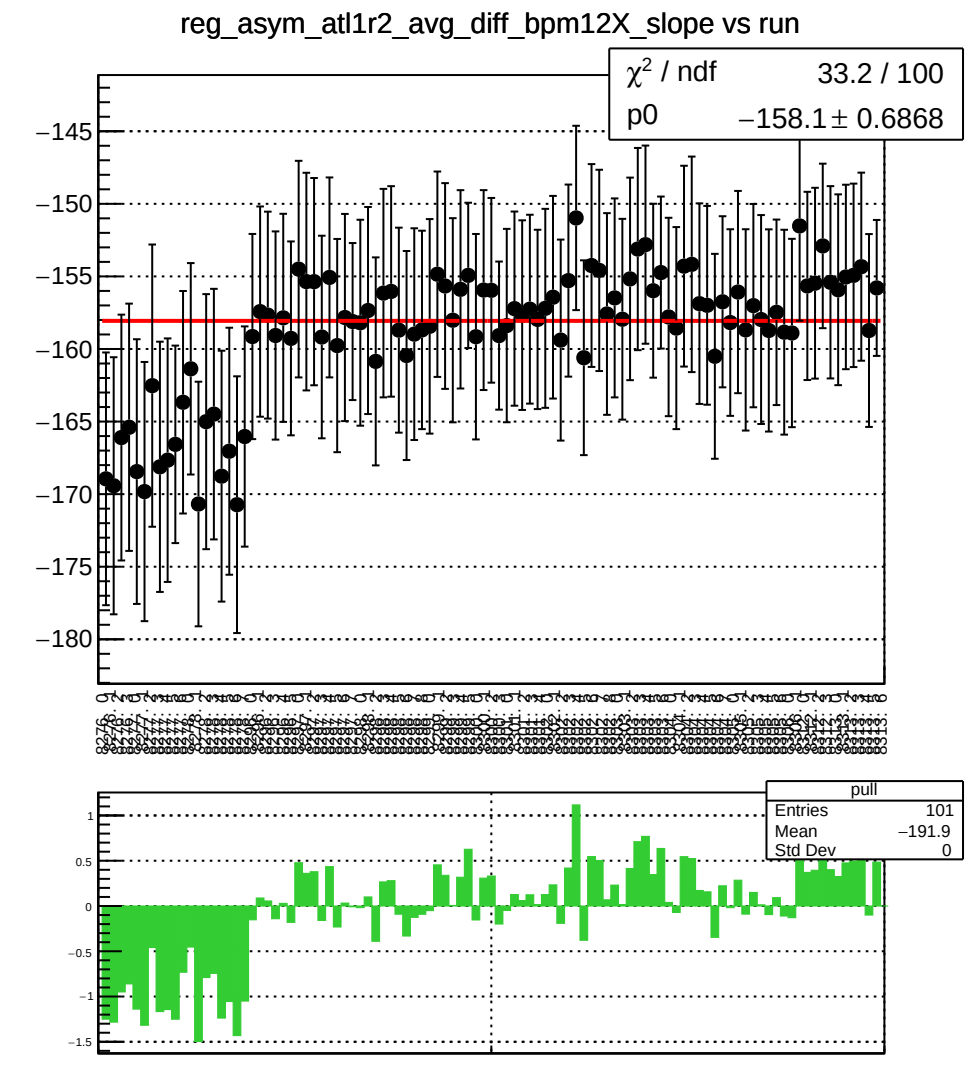

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 10.17 / 100
p0 −285.4 ± 6.378
pull
Entries 101
Mean −682.6
Std Dev 0
pull1D
Entries 101
Mean −0.00481
Std Dev 0.3172

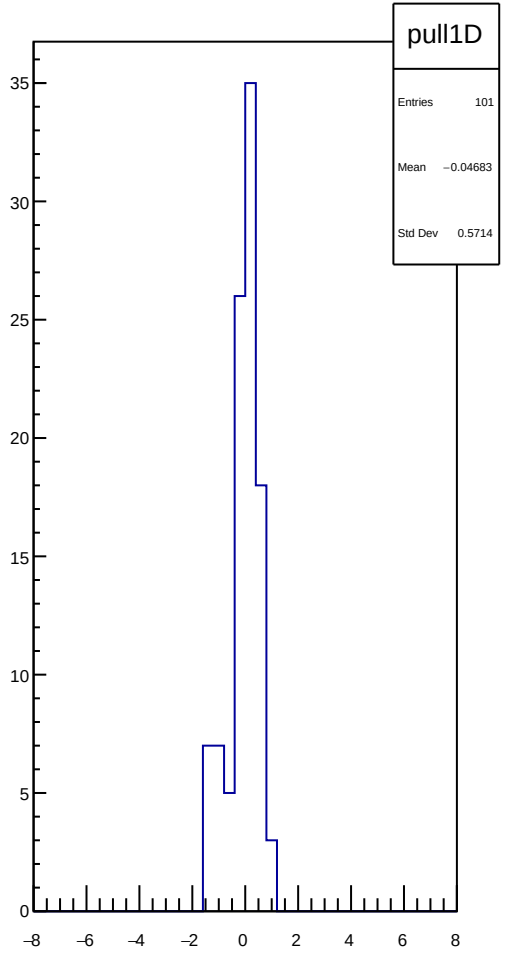

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.22 / 100
p0 50.01 ± 12.45
300
200
100
0
−100
pull
Entries 101
Mean −420.3
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

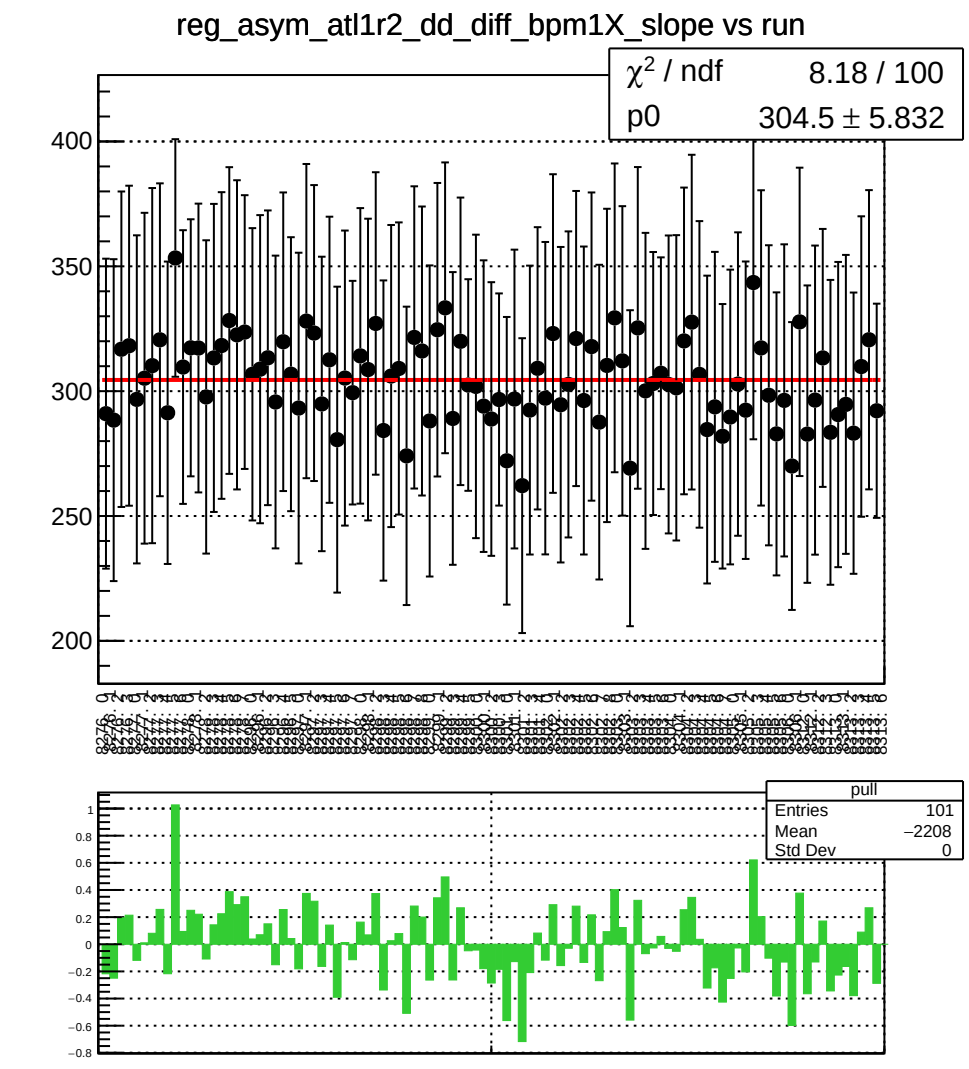

pull1D
Entries 101
Mean 0.003238
Std Dev 0.2481
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

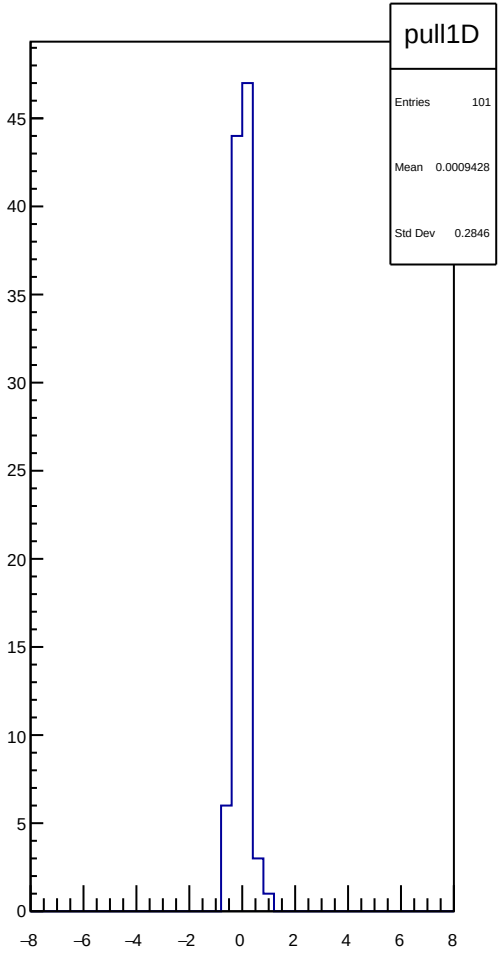

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.16 / 100
p0 321.5 ± 7.121
pull
Entries 101
Mean −708.7
Std Dev 0
pull1D
Entries 101
Mean 0.004707
Std Dev 0.3172

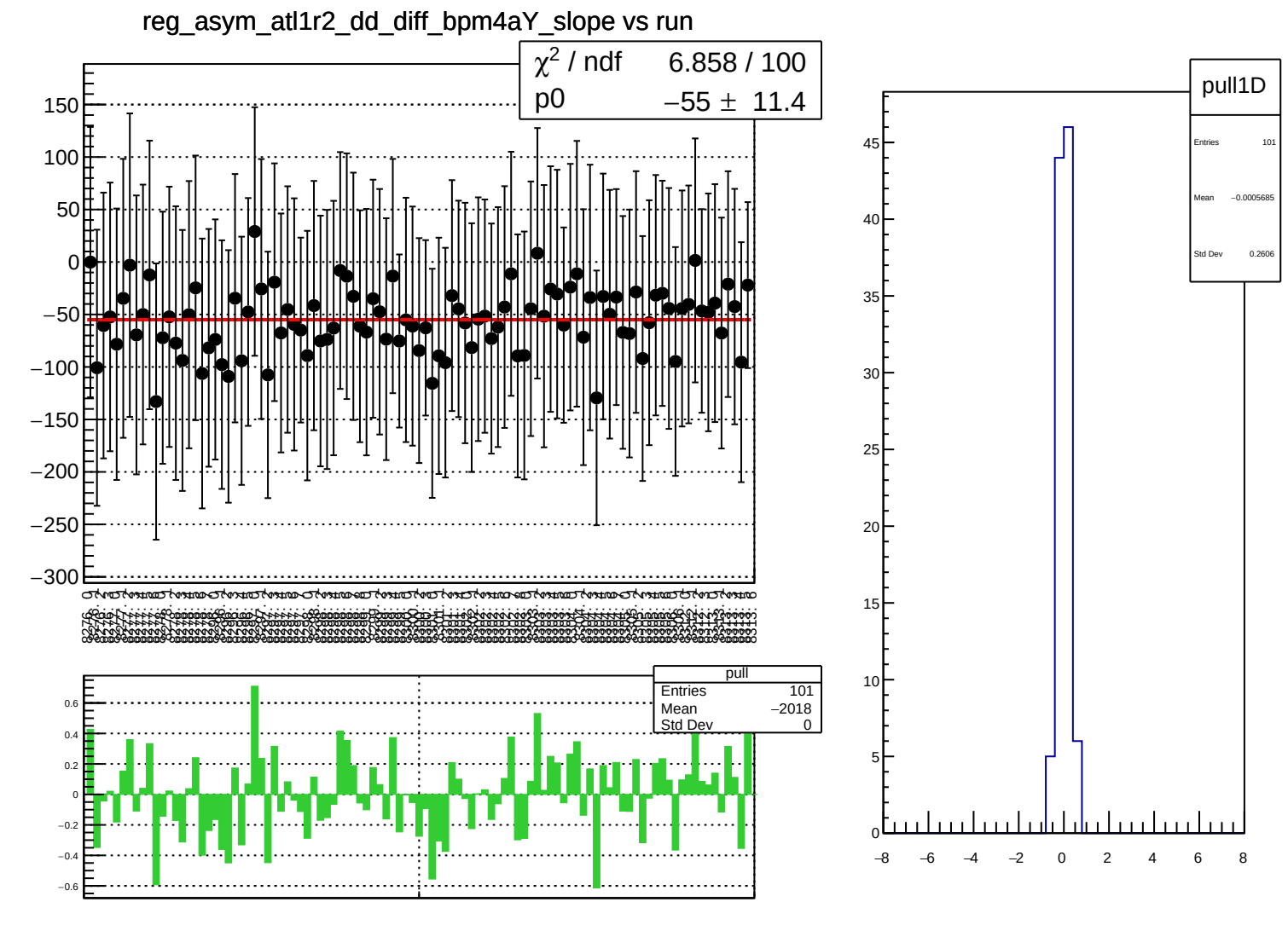

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.06 / 100
p0 6.773 ± 12.94
200
100
0
−100
−200
pull
Entries 101
Mean −470.3
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 101
Mean −0.002164
Std Dev 0.2449
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

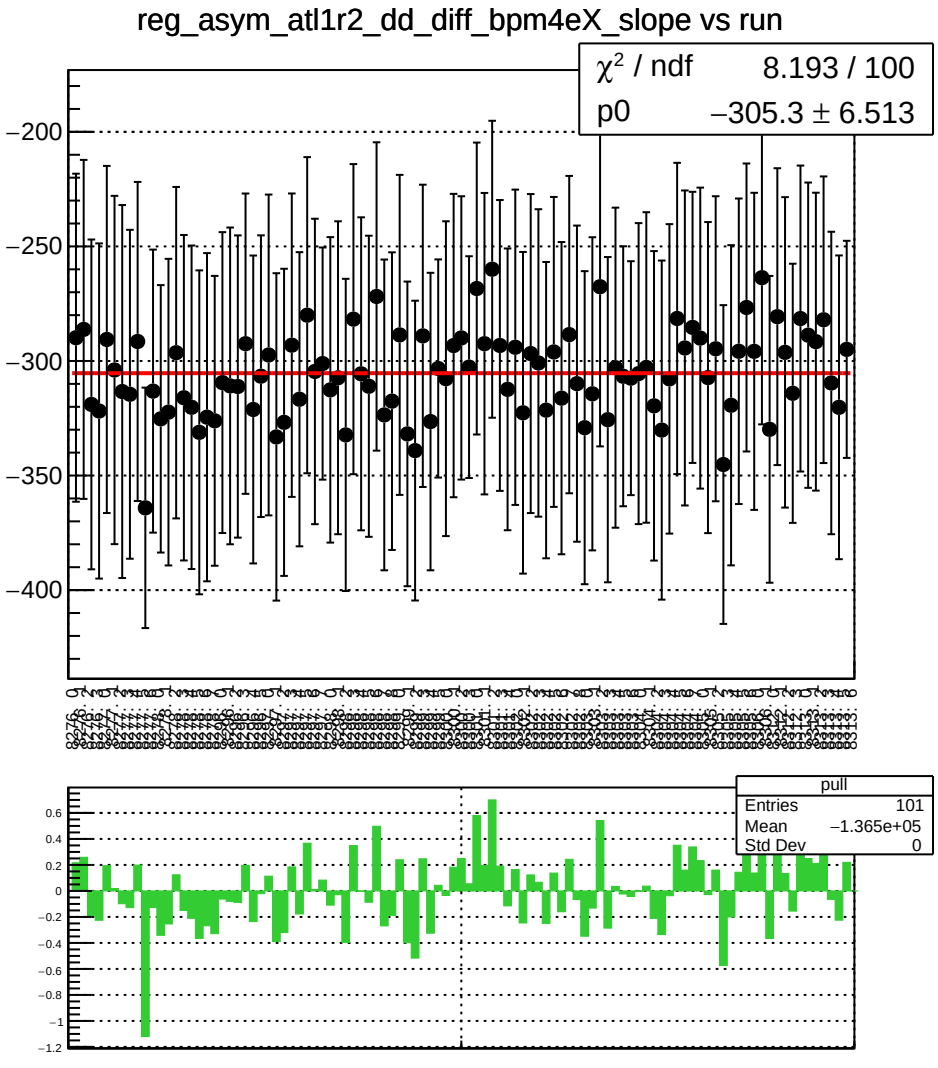

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 33.2 / 100
p0 −158.1 ± 0.6868
−145
−150
−155
−160
−165
−170
−175
−180
pull
Entries 101
Mean −191.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

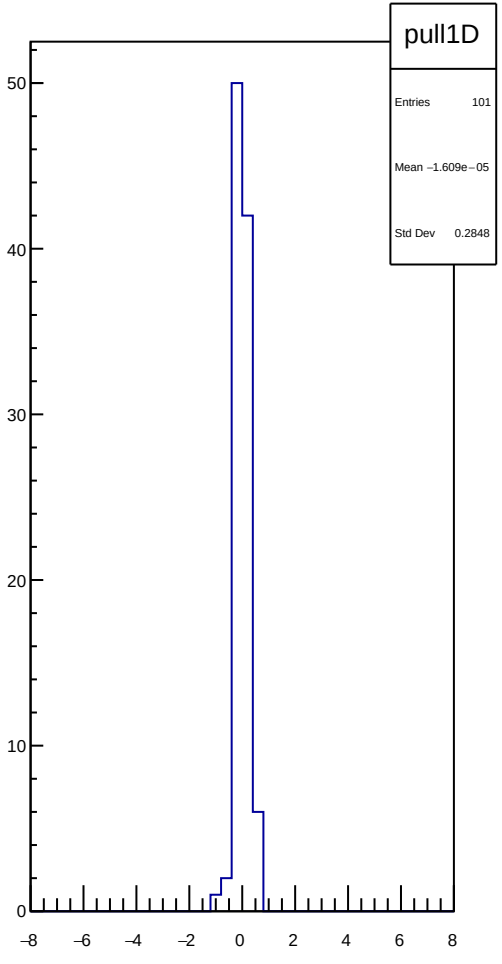

pull1D
Entries 101
Mean −0.04683
Std Dev 0.5714
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

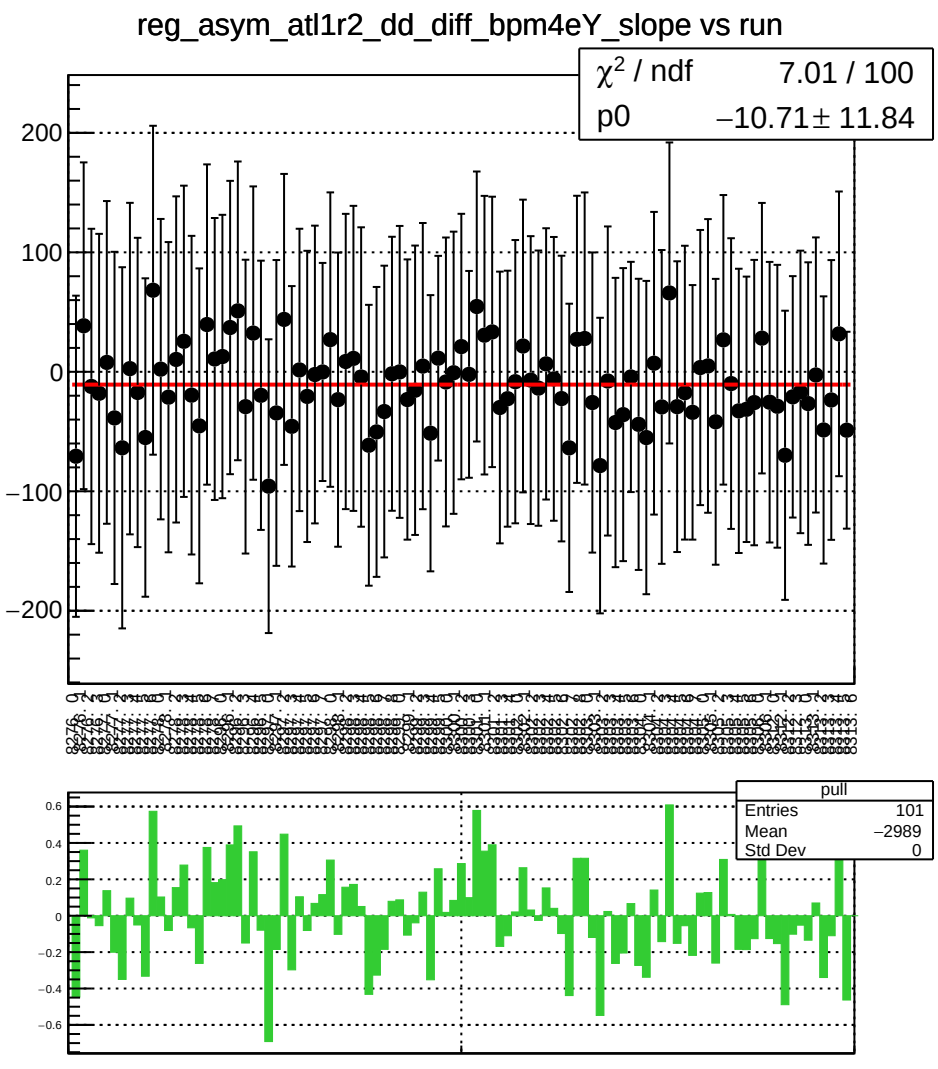

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 8.18 / 100
p0 304.5 ± 5.832
pull
Entries 101
Mean −2208
Std Dev 0

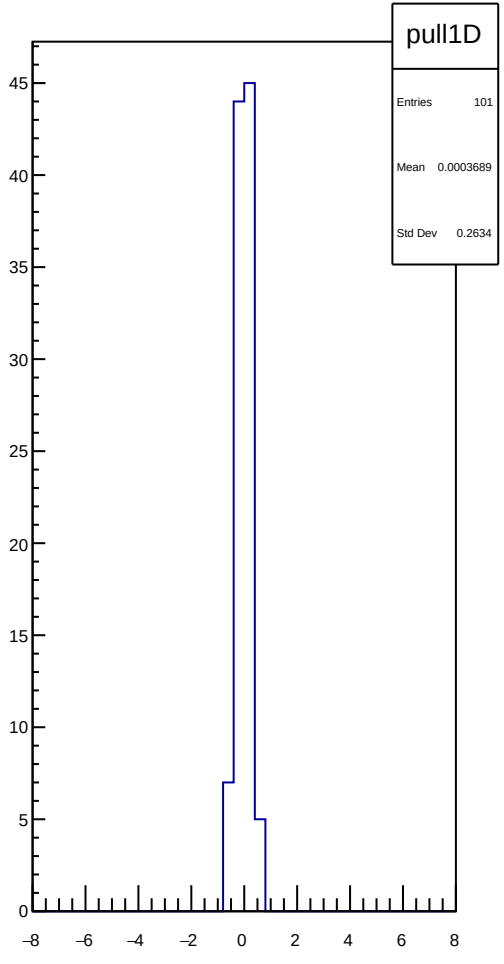

pull1D
Entries 101
Mean 0.0009428
Std Dev 0.2846

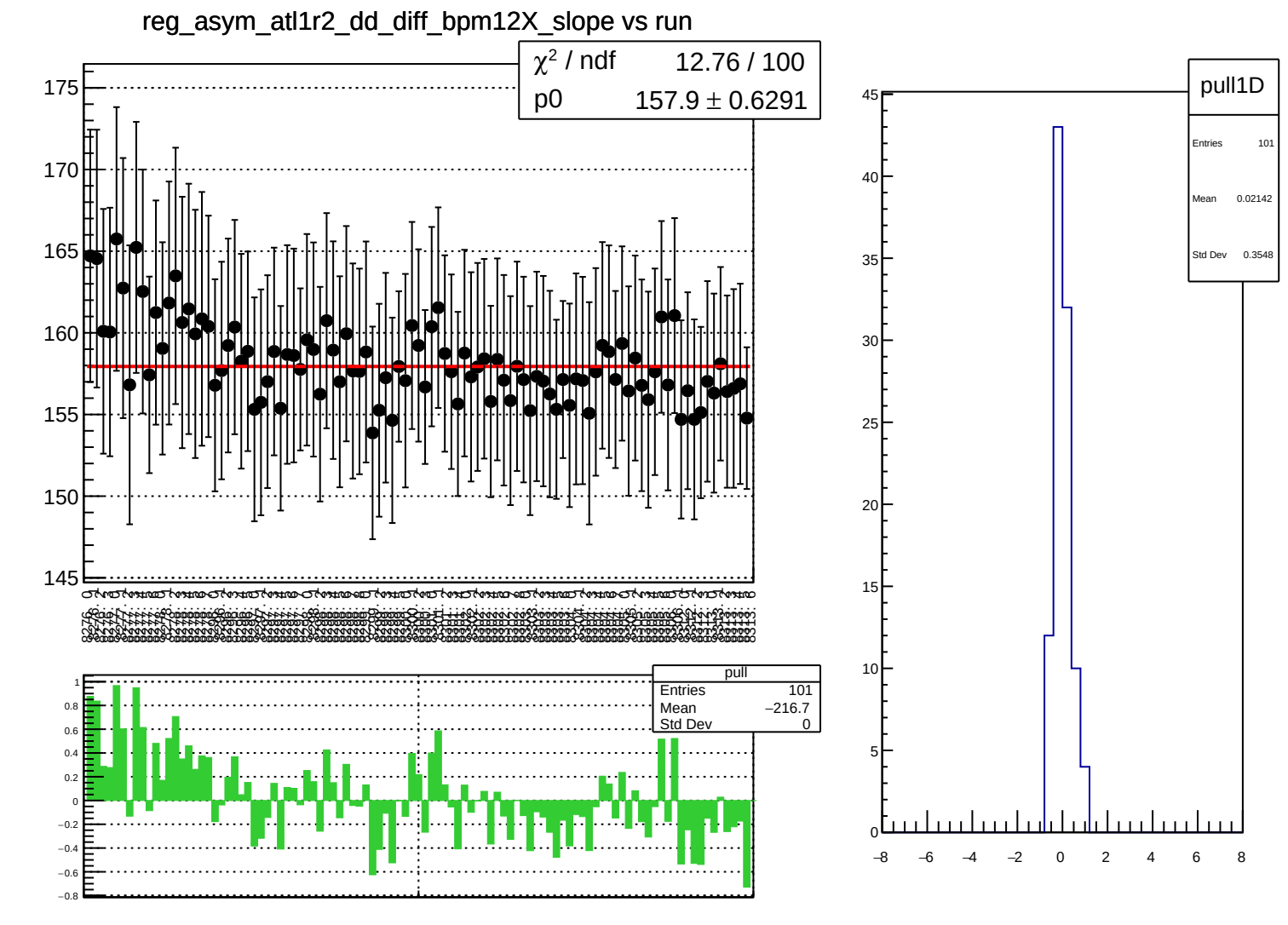

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.858 / 100
p0 −55 ± 11.4
150
100
50
0
−50
−100
−150
−200
−250
−300
pull
Entries 101
Mean −2018
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 101
Mean −0.0005685
Std Dev 0.2606
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

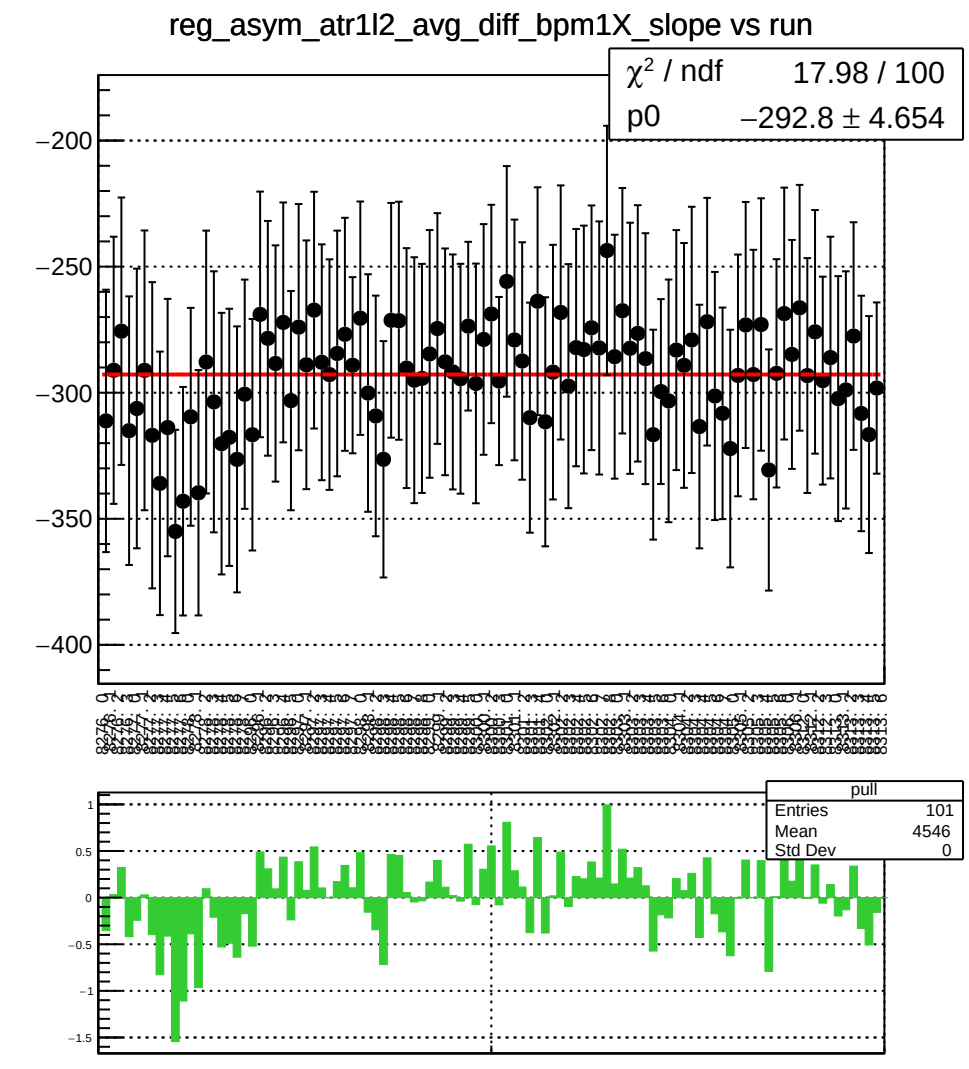

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.193 / 100
p0 −305.3 ± 6.513
−200
−250
−300
−350
−400
pull
Entries 101
Mean −1.365e+05
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

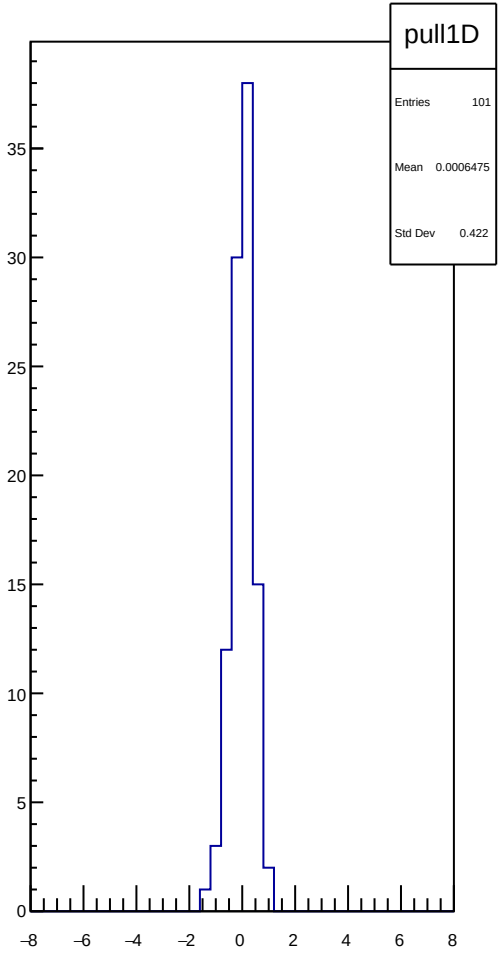

pull1D
Entries 101
Mean −1.609e−05
Std Dev 0.2848
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

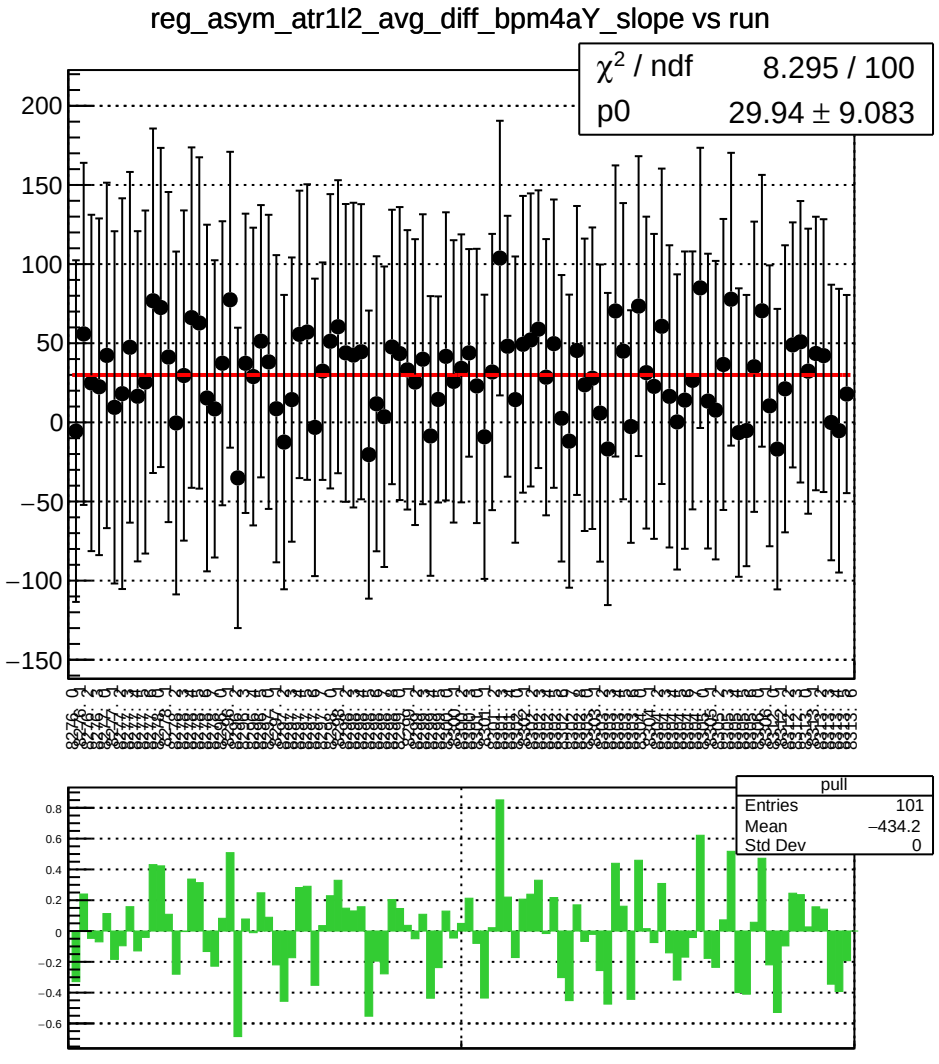

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.01 / 100
p0 −10.71 ± 11.84
200
100
0
−100
−200
pull
Entries 101
Mean −2989
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

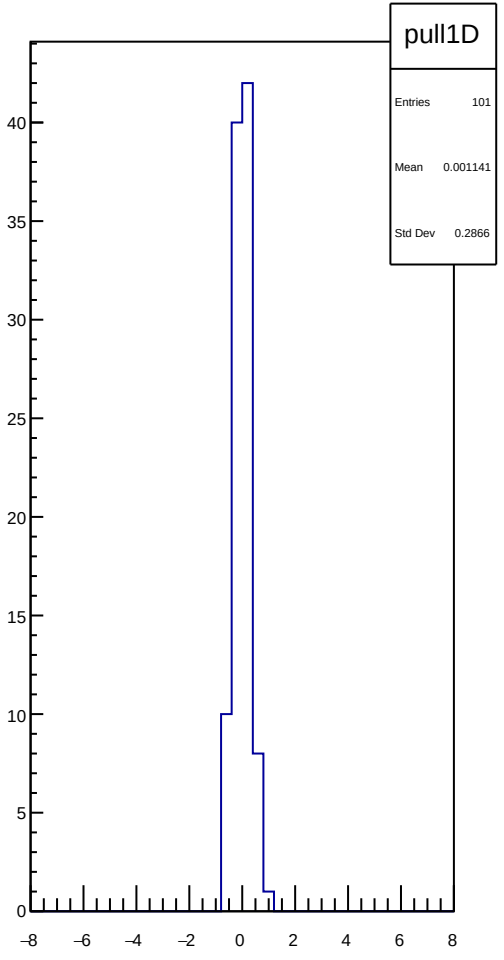

pull1D
Entries 101
Mean 0.0003689
Std Dev 0.2634
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

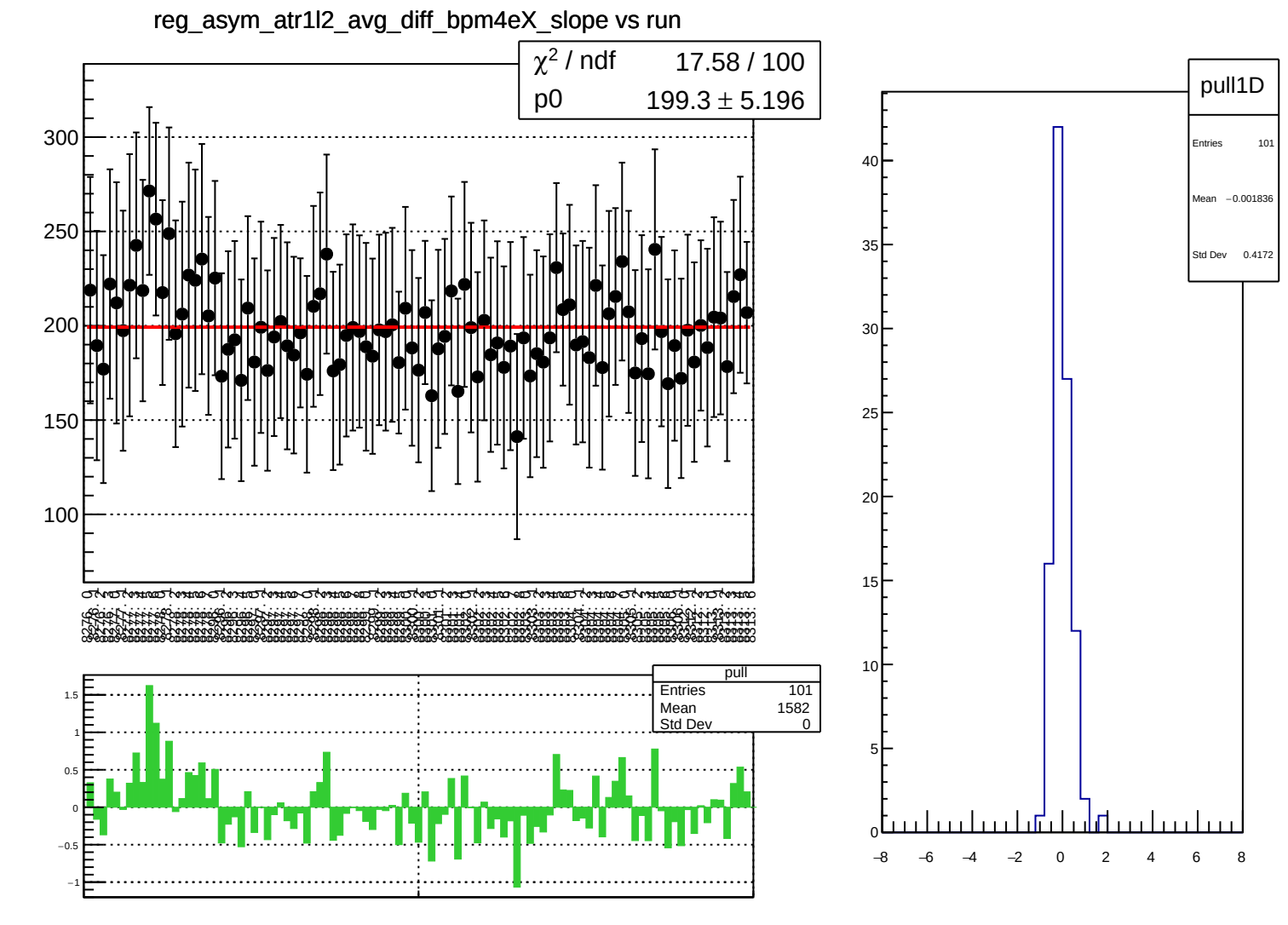

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 12.76 / 100
p0 157.9 ± 0.6291
175
170
165
160
155
150
145
pull
Entries 101
Mean −216.7
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 101
Mean 0.02142
Std Dev 0.3548
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

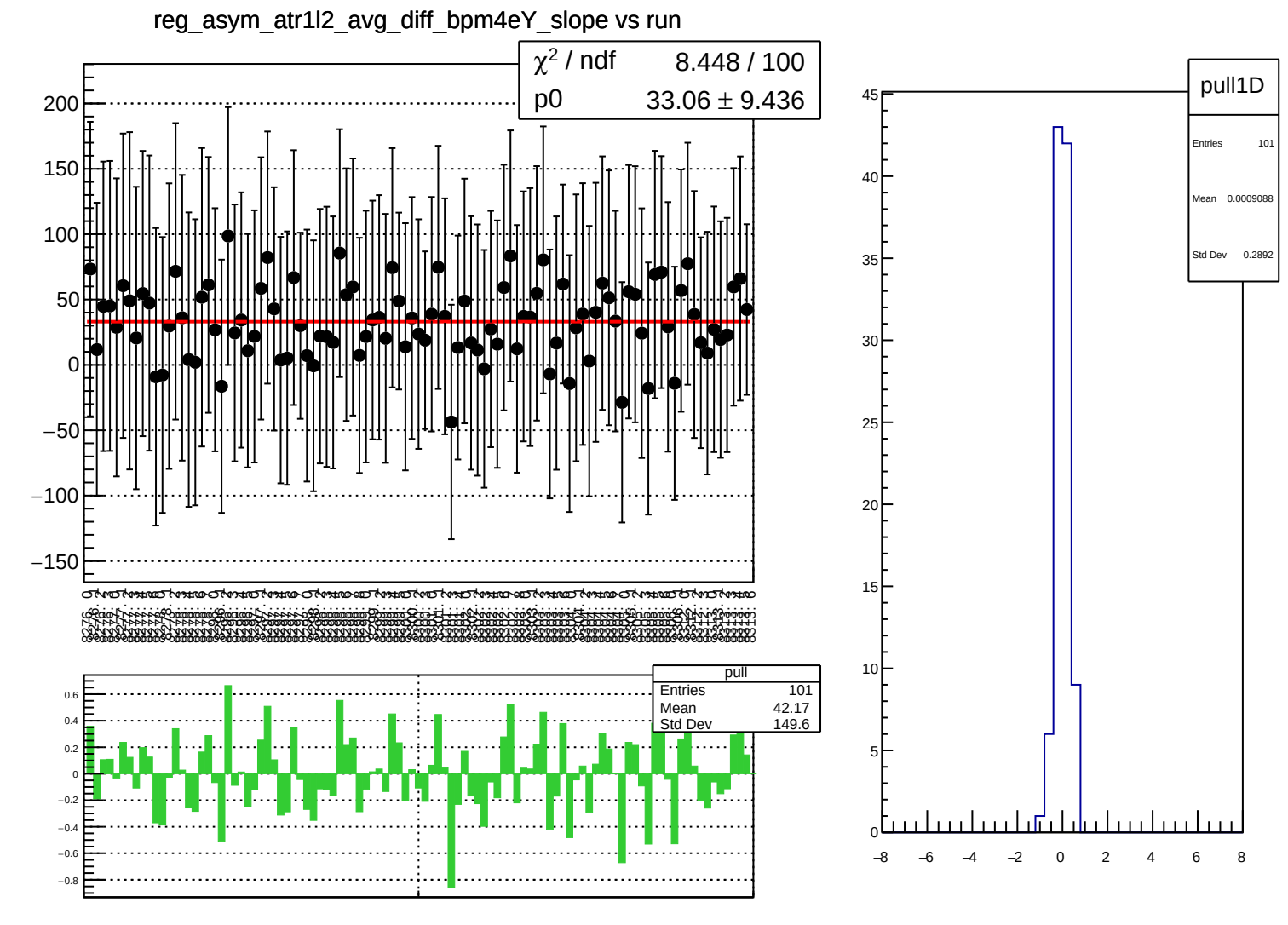

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 17.98 / 100
p0 −292.8 ± 4.654
−200
−250
−300
−350
−400
pull
Entries 101
Mean 4546
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

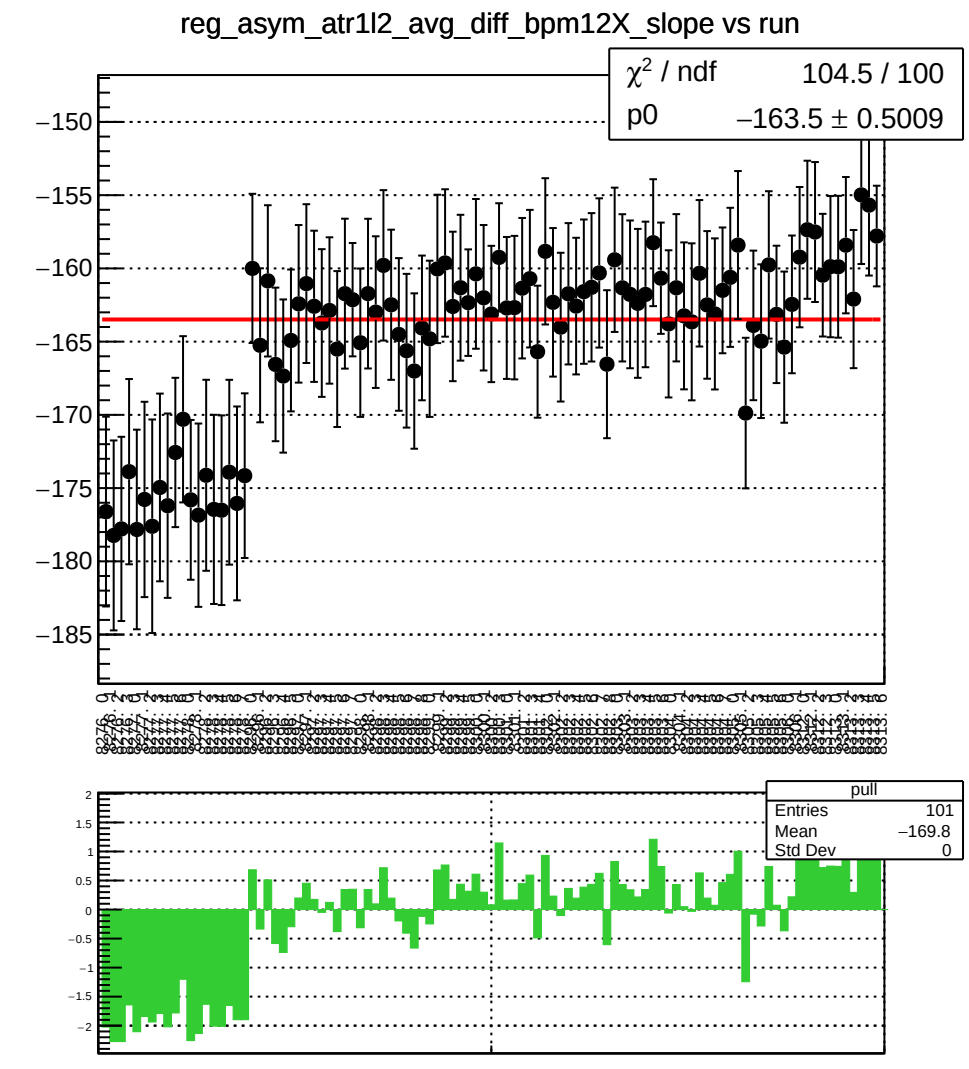

pull1D
Entries 101
Mean 0.0006475
Std Dev 0.422
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

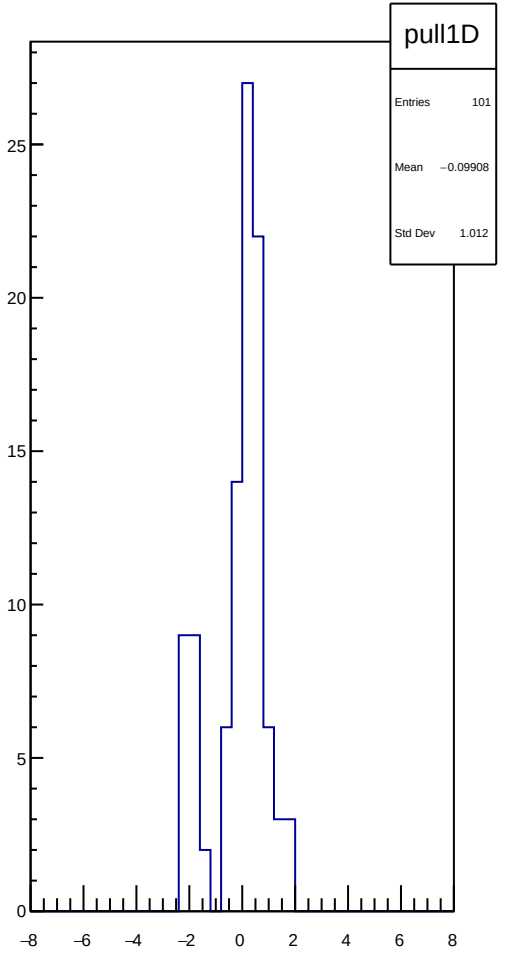

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.295 / 100
p0 29.94 ± 9.083
pull
Entries 101
Mean −434.2
Std Dev 0

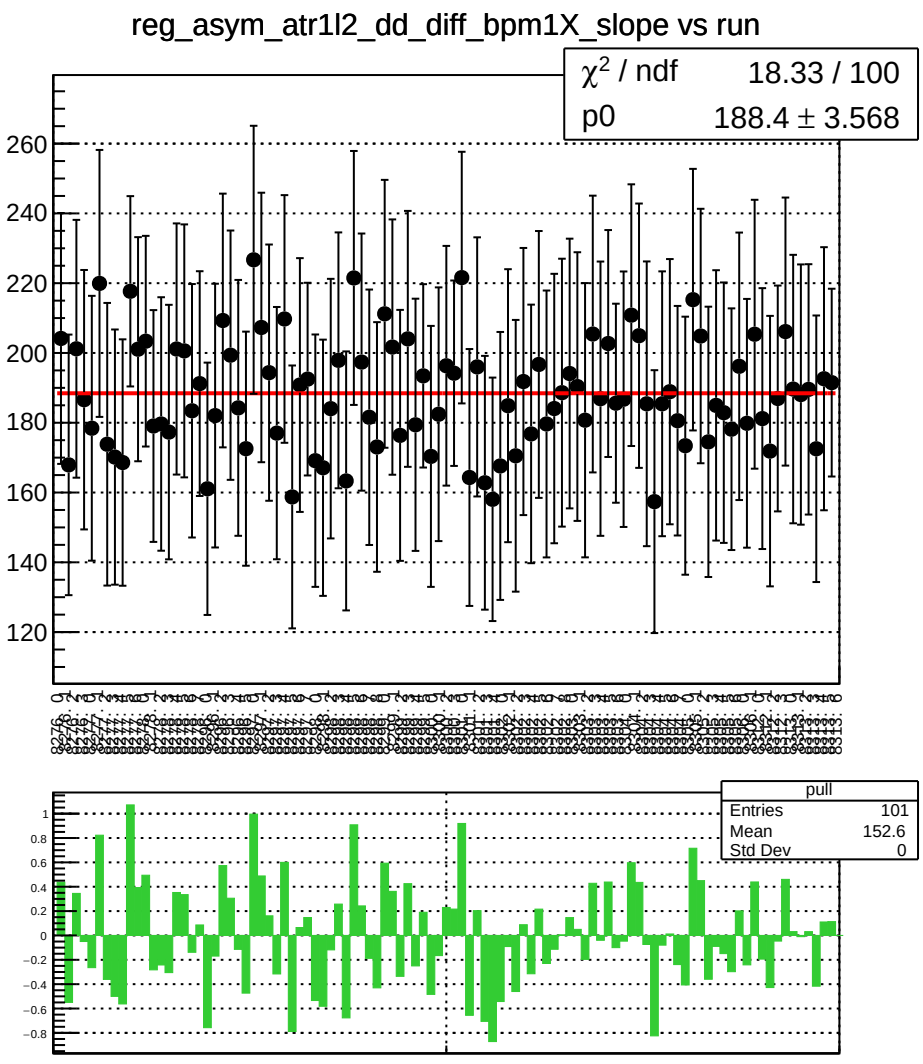

pull1D
Entries 101
Mean 0.001141
Std Dev 0.2866

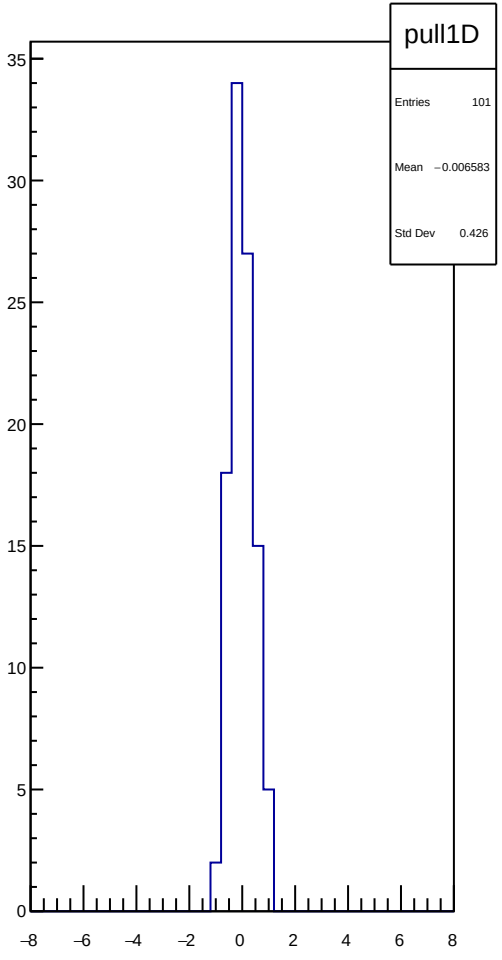

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 17.58 / 100
p0 199.3 ± 5.196
300
250
200
150
100
pull
Entries 101
Mean 1582
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 101
Mean −0.001836
Std Dev 0.4172
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

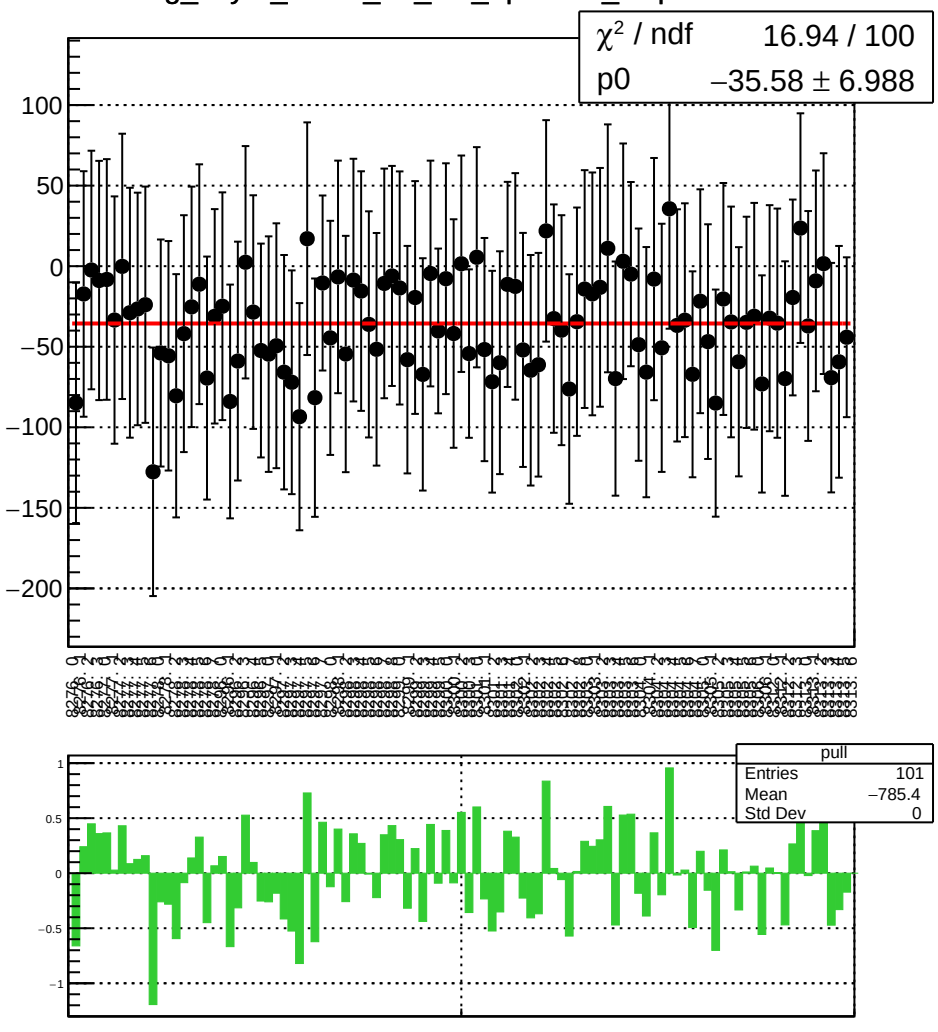

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.448 / 100
p0 33.06 ± 9.436
pull
Entries 101
Mean 42.17
Std Dev 149.6
pull1D
Entries 101
Mean 0.0009088
Std Dev 0.2892

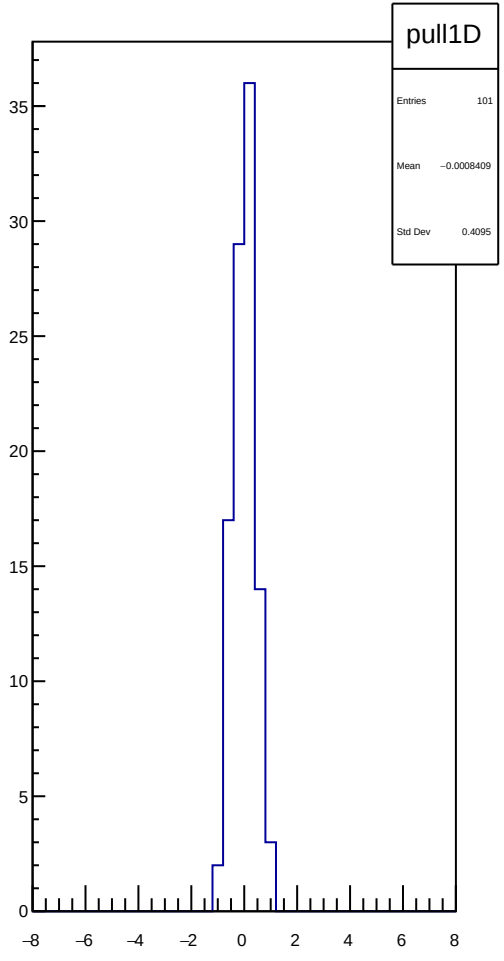

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 104.5 / 100
p0 −163.5 ± 0.5009
−150
−155
−160
−165
−170
−175
−180
−185
pull
Entries 101
Mean −169.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

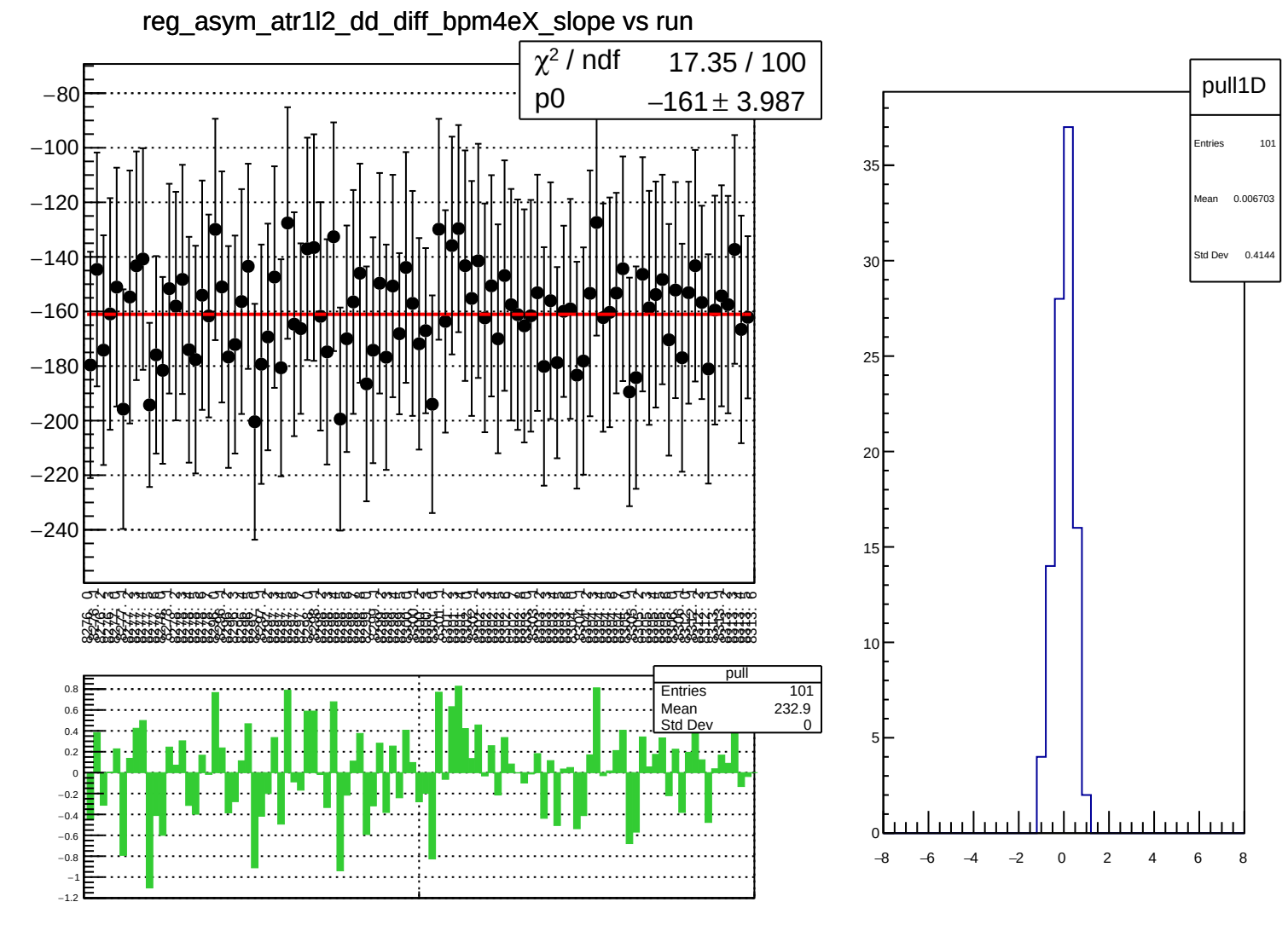

pull1D
Entries 101
Mean −0.09908
Std Dev 1.012
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

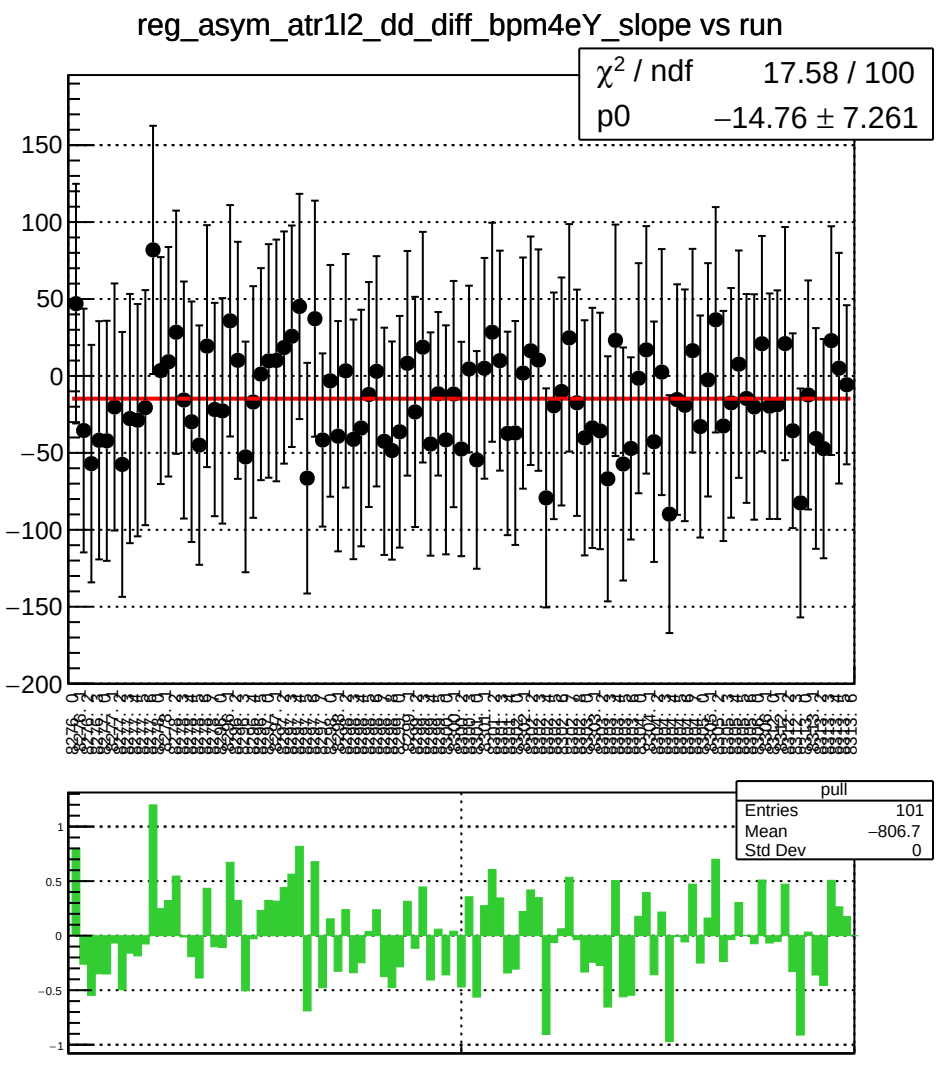

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 18.33 / 100
p0 188.4 ± 3.568
260
240
220
200
180
160
140
120
pull
Entries 101
Mean 152.6
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

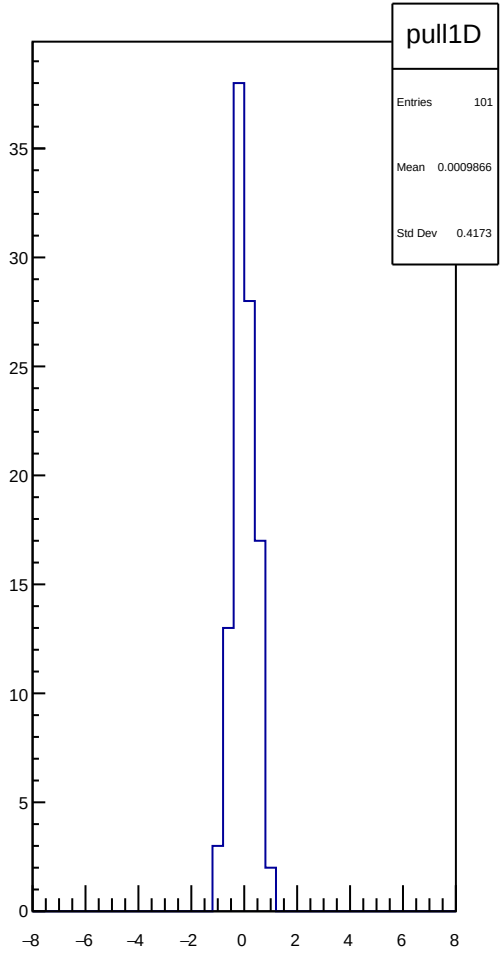

pull1D
Entries 101
Mean −0.006583
Std Dev 0.426
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

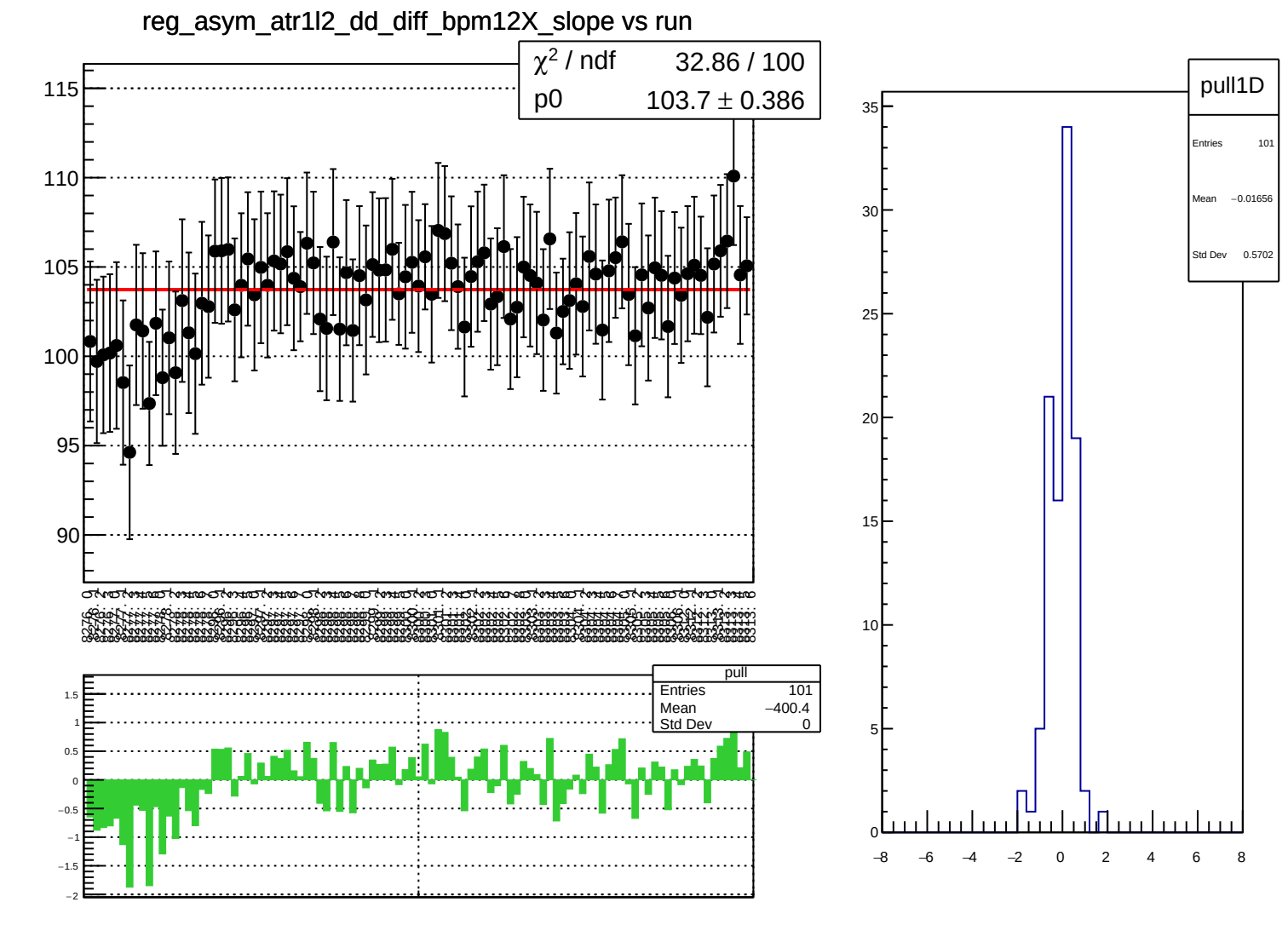

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 16.94 / 100
p0 −35.58 ± 6.988
pull
Entries 101
Mean −785.4
Std Dev 0

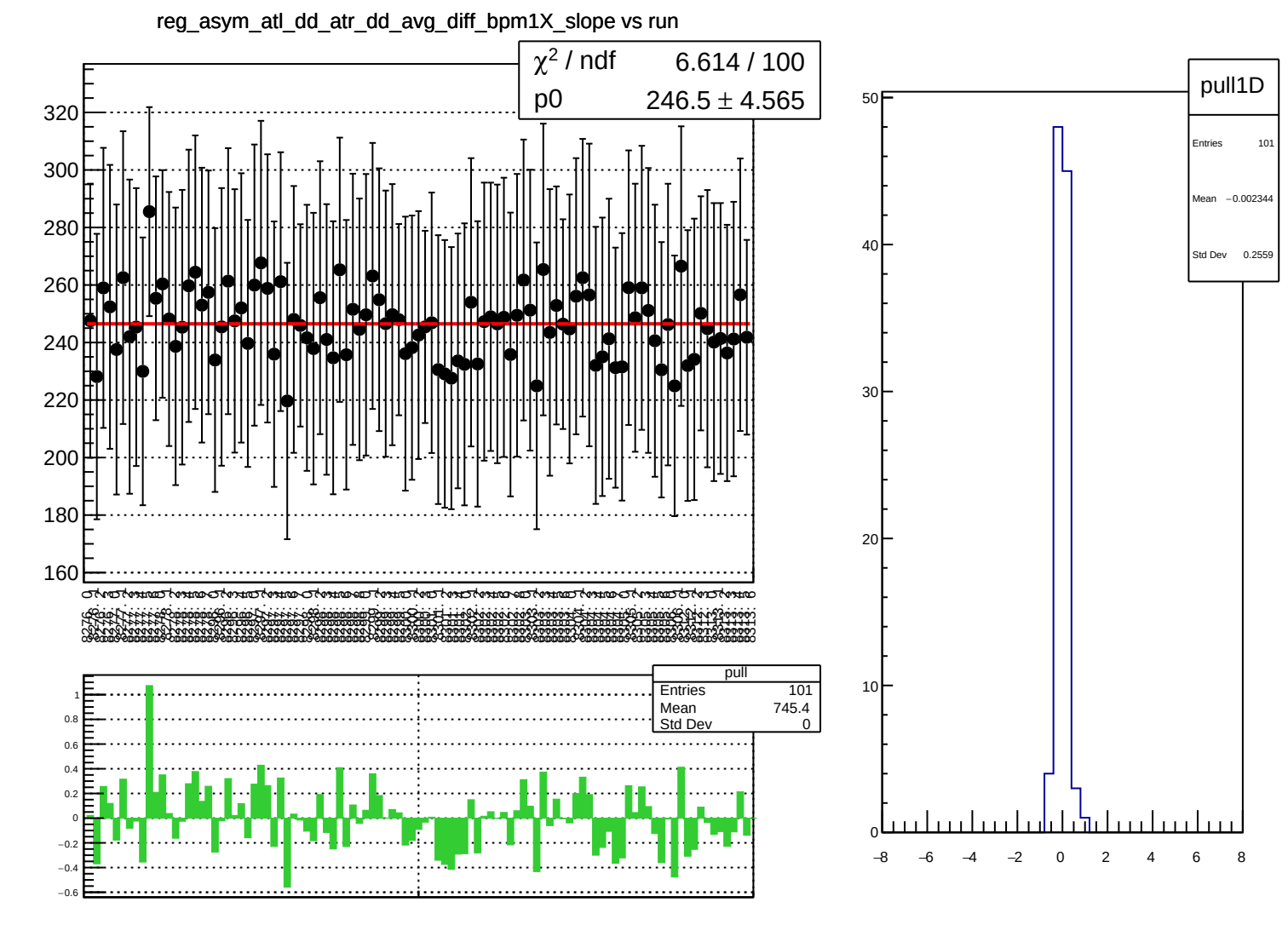

pull1D
Entries 101
Mean −0.0008409
Std Dev 0.4095

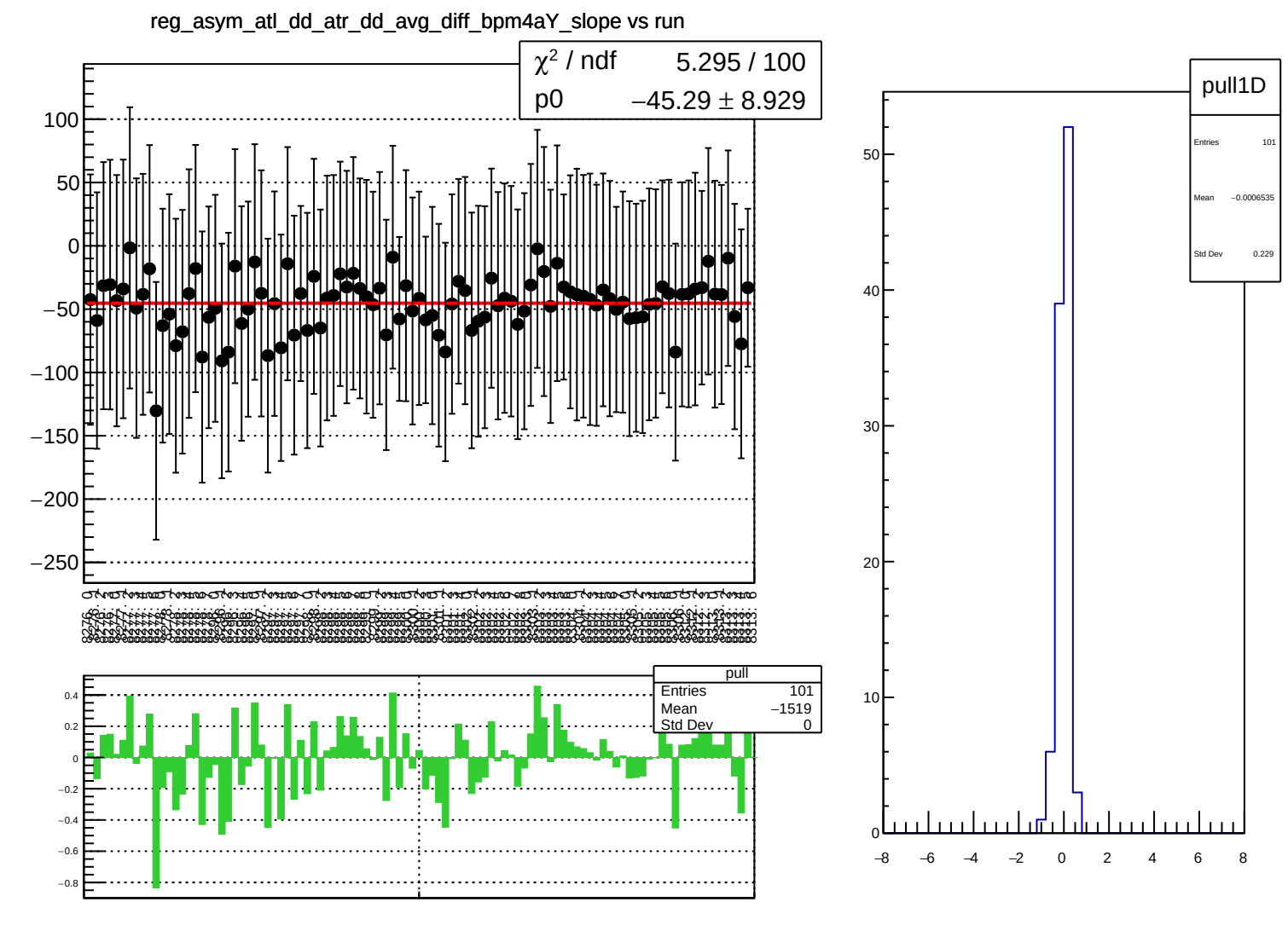

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 17.35 / 100
p0 −161 ± 3.987
−80
−100
−120
−140
−160
−180
−200
−220
−240
pull
Entries 101
Mean 232.9
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 101
Mean 0.006703
Std Dev 0.4144
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

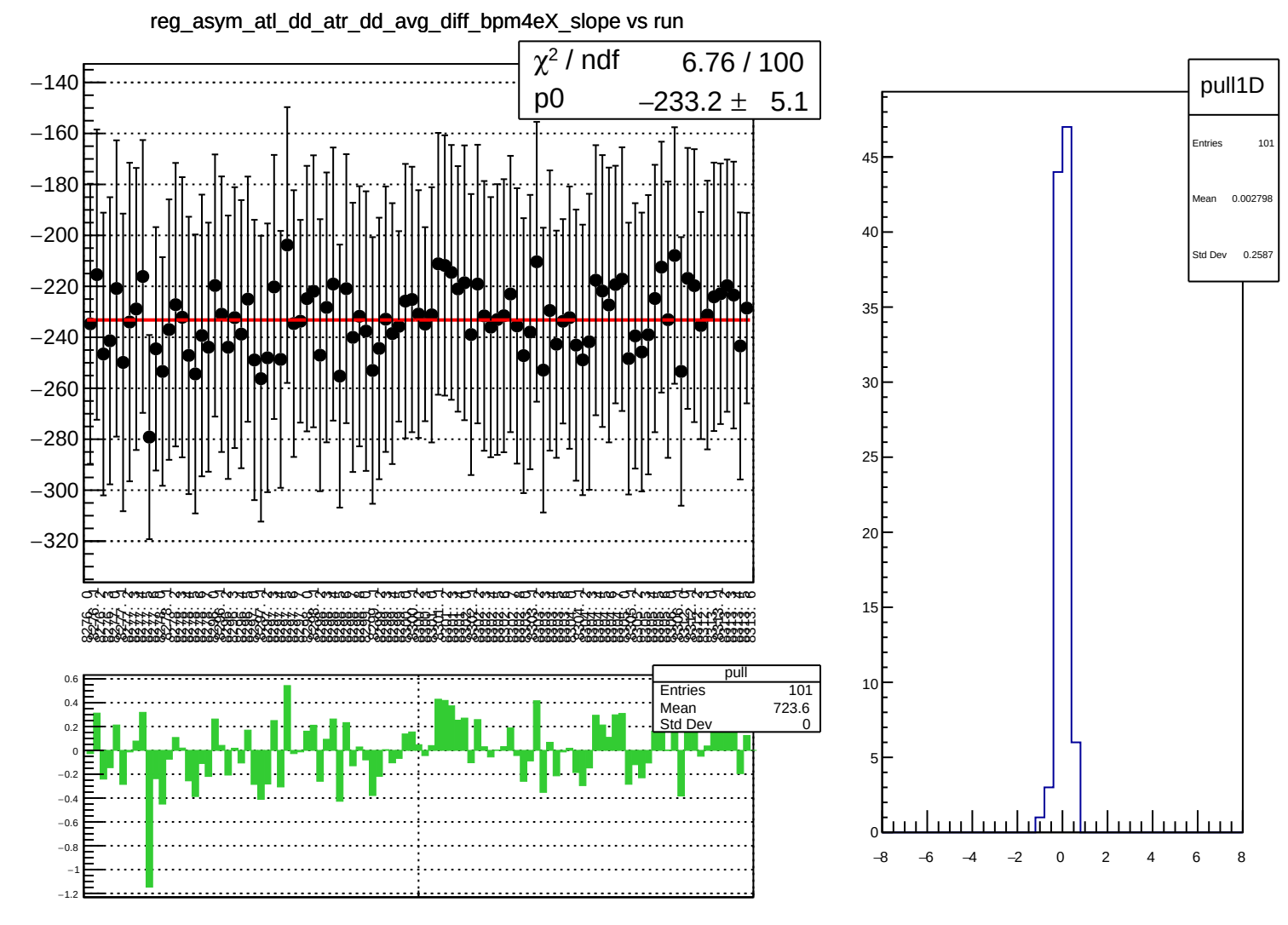

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 17.58 / 100
p0 −14.76 ± 7.261
150
100
50
0
−50
−100
−150
−200
pull
Entries 101
Mean −806.7
Std Dev 0
1
0.5
0
−0.5
−1

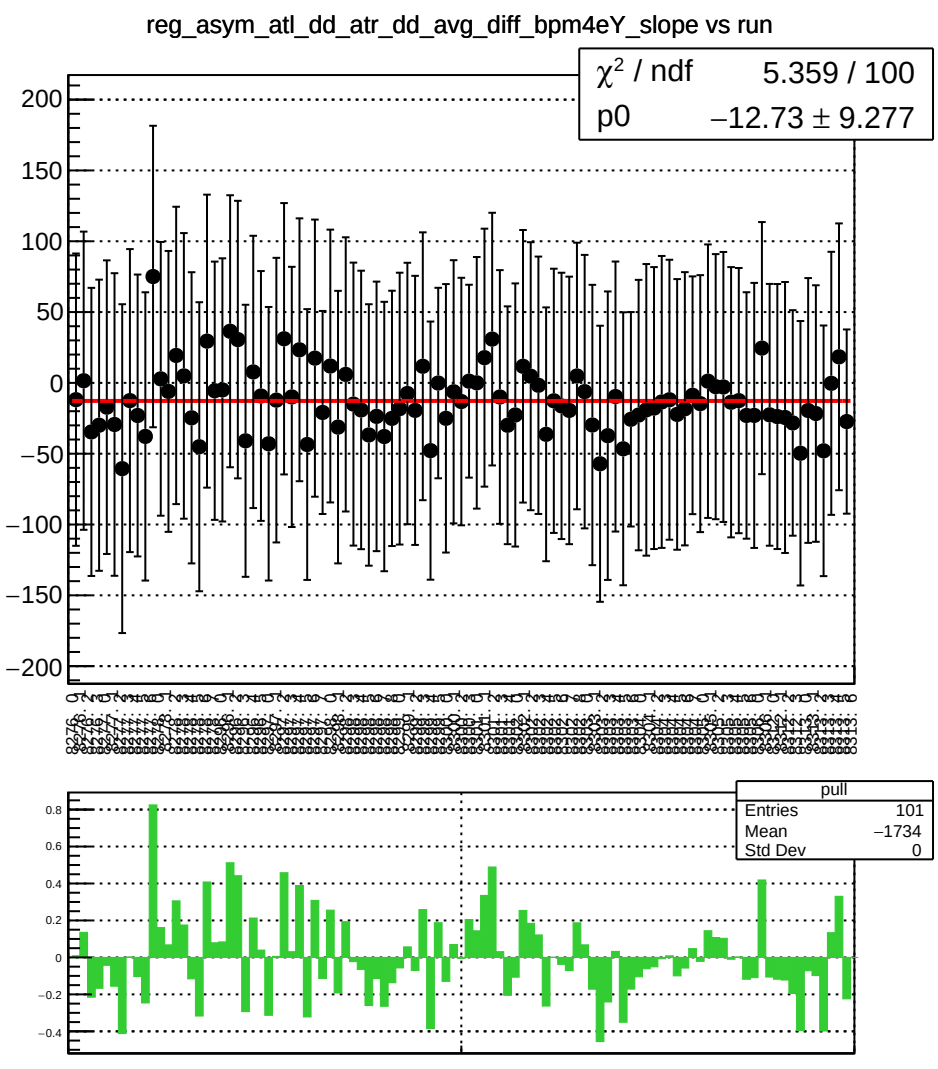

pull1D
Entries 101
Mean 0.0009866
Std Dev 0.4173
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

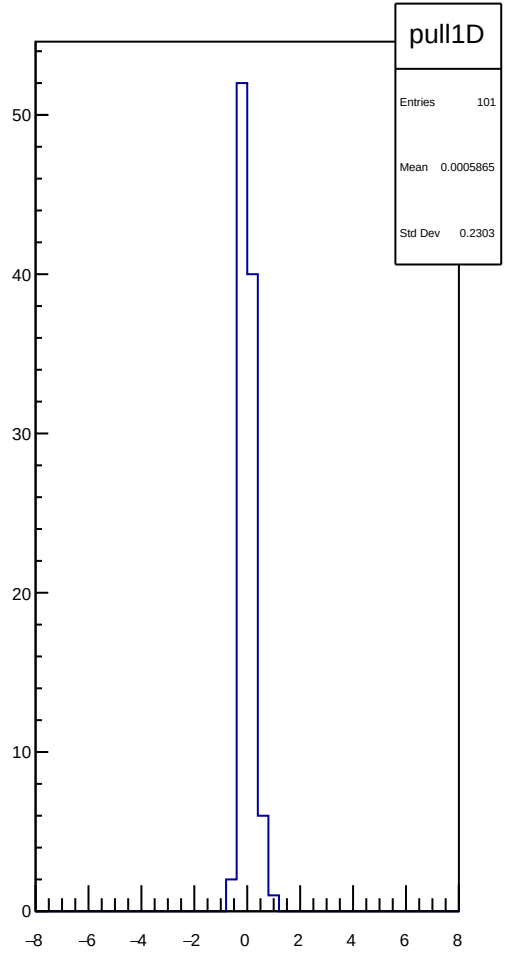

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 32.86 / 100
p0 103.7 ± 0.386
pull
Entries 101
Mean −400.4
Std Dev 0
pull1D
Entries 101
Mean −0.01656
Std Dev 0.5702

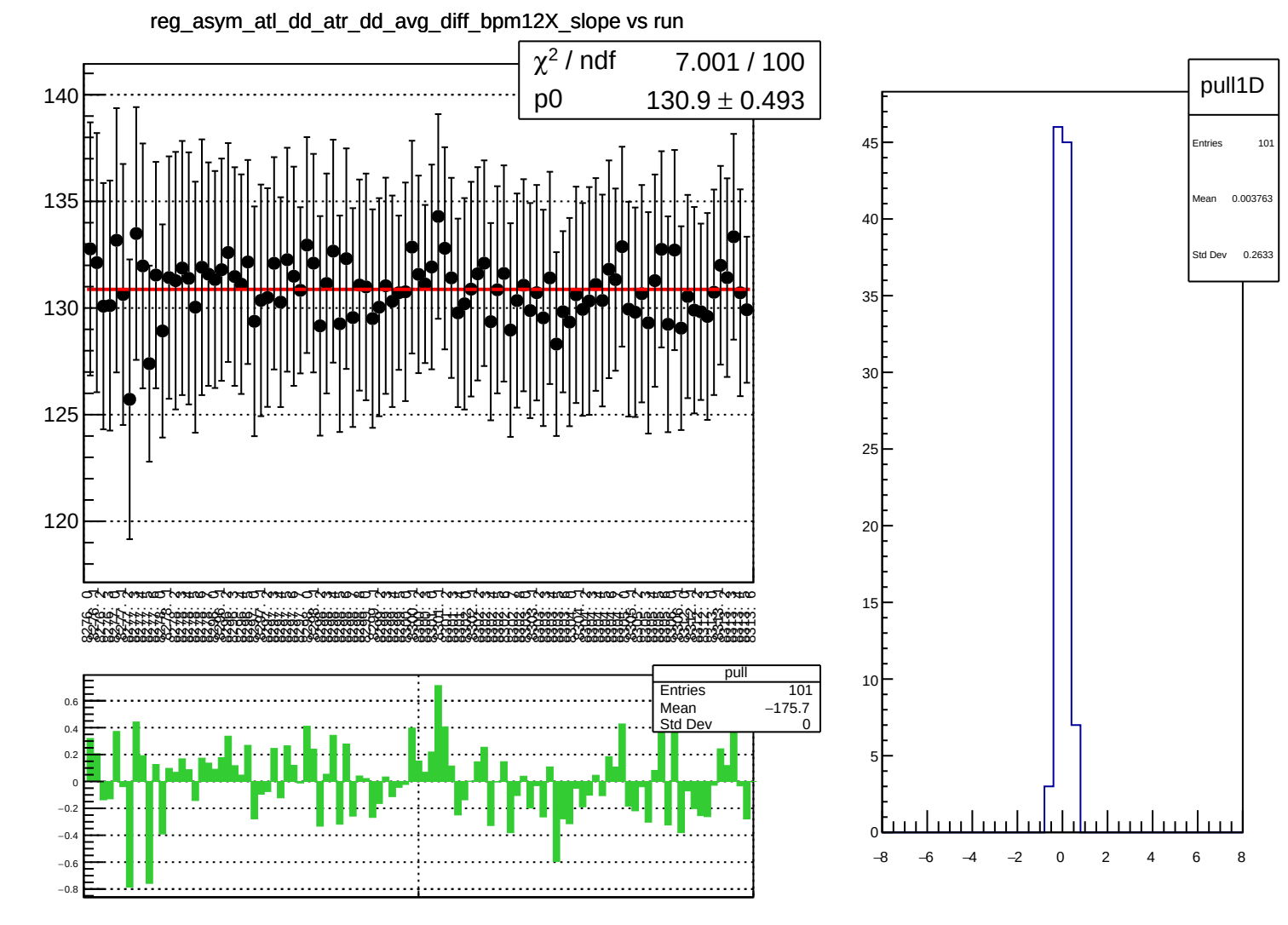

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 6.614 / 100
p0 246.5 ± 4.565
320
300
280
260
240
220
200
180
160
pull
Entries 101
Mean 745.4
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 101
Mean −0.002344
Std Dev 0.2559
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

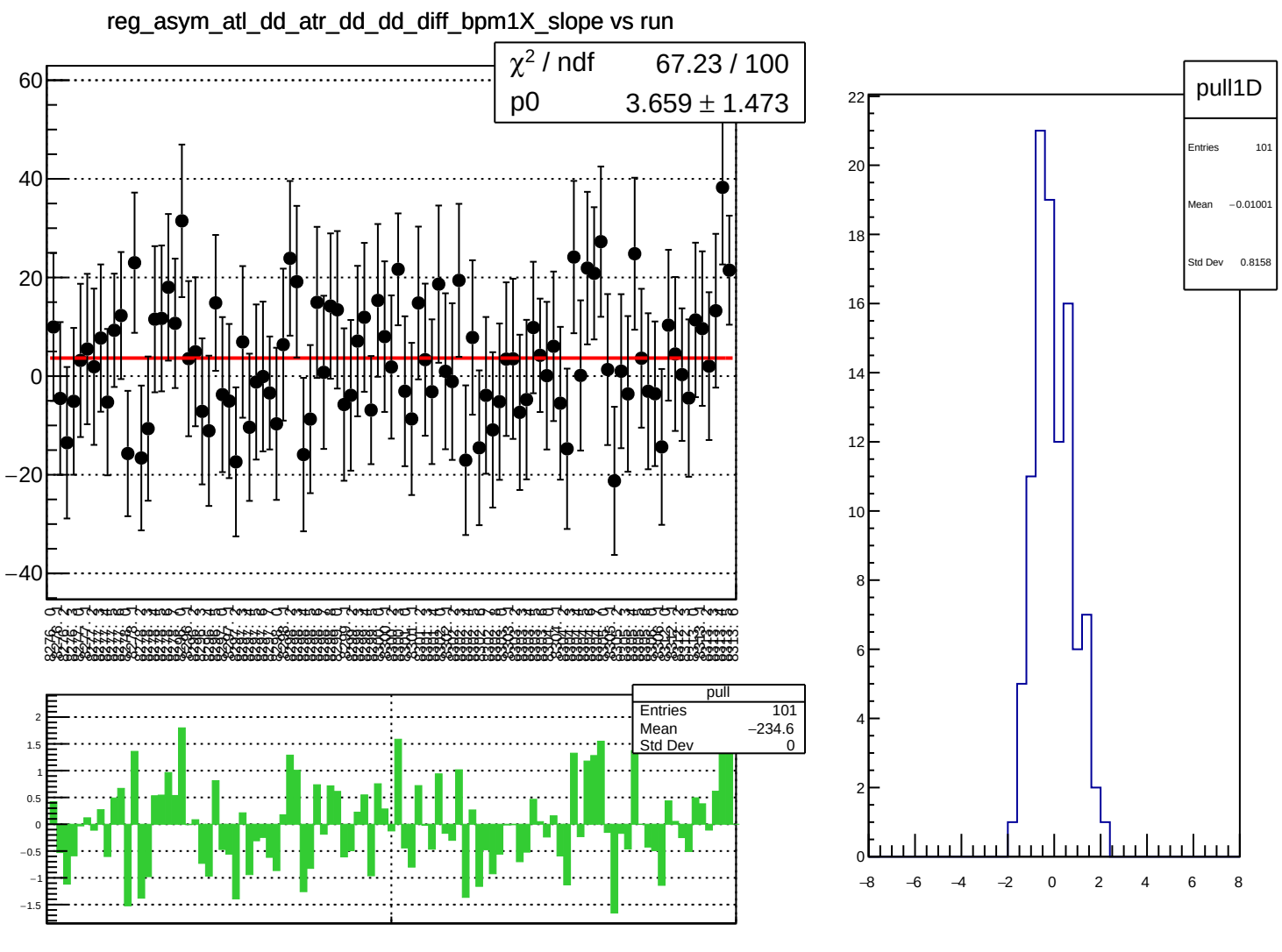

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.295 / 100
p0 −45.29 ± 8.929
pull
Entries 101
Mean −1519
Std Dev 0
pull1D
Entries 101
Mean −0.0006535
Std Dev 0.229

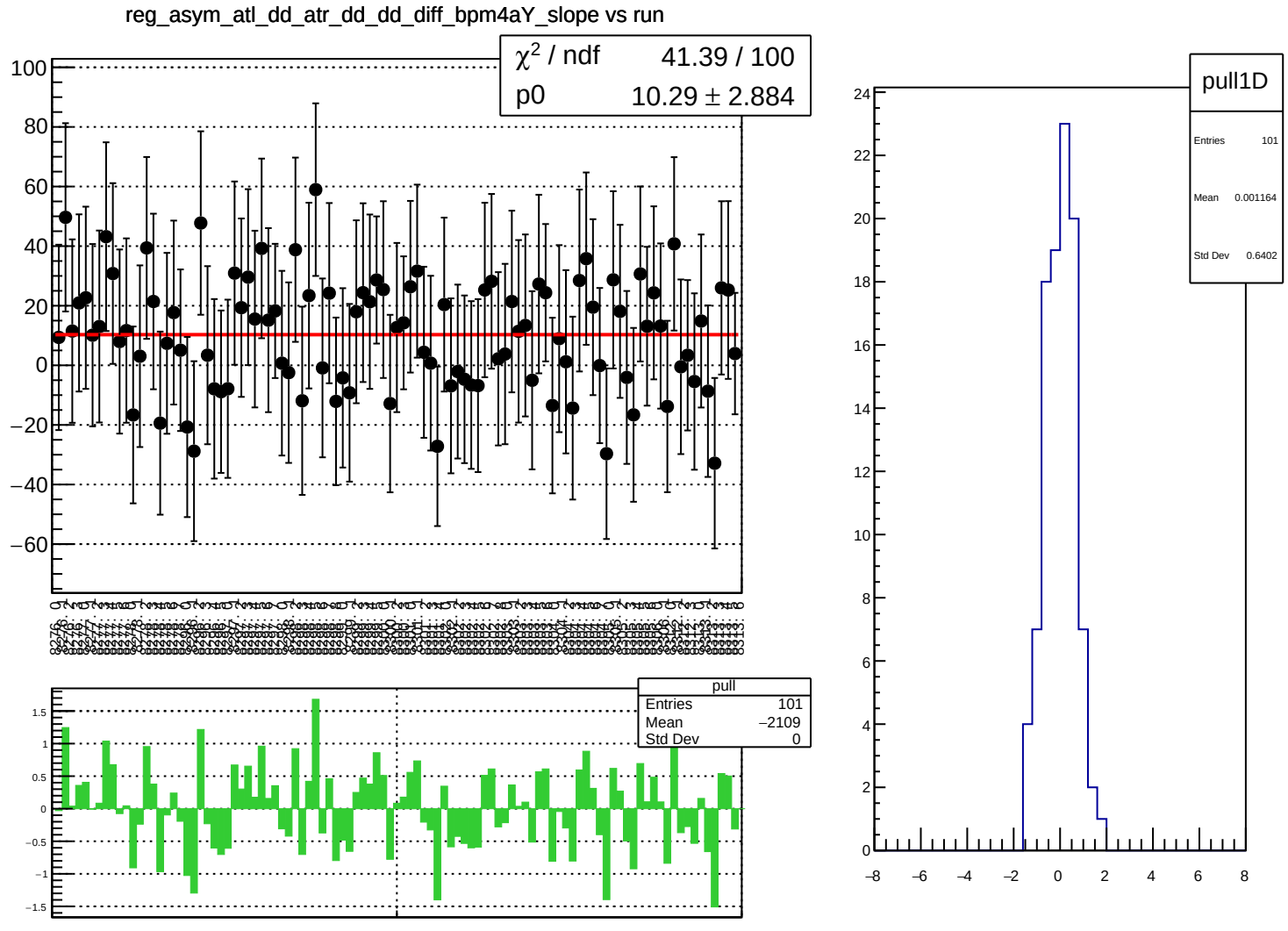

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.76 / 100
p0 −233.2 ± 5.1
pull
Entries 101
Mean 723.6
Std Dev 0
pull1D
Entries 101
Mean 0.002798
Std Dev 0.2587

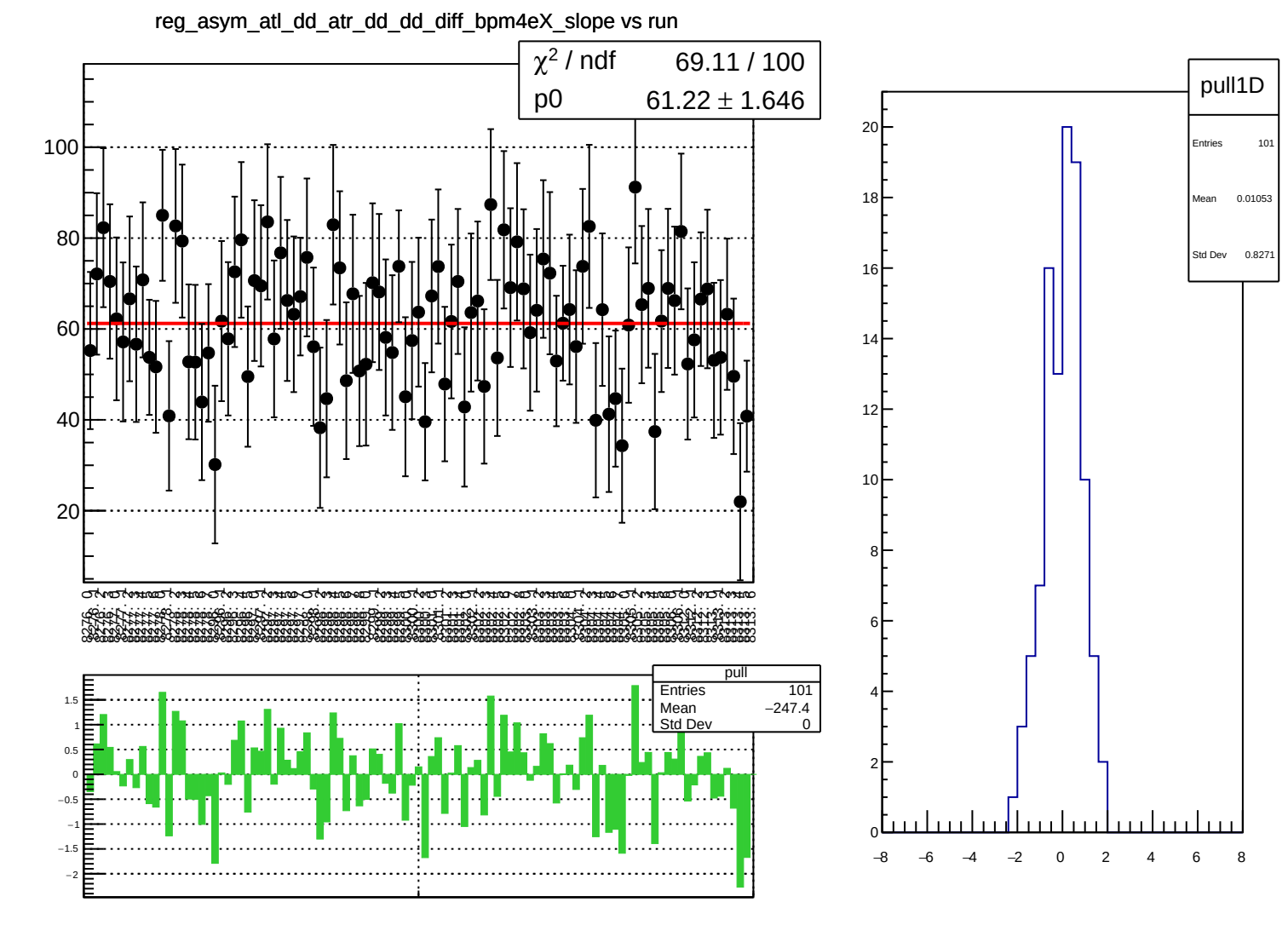

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.359 / 100
p0 −12.73 ± 9.277
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 101
Mean −1734
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4

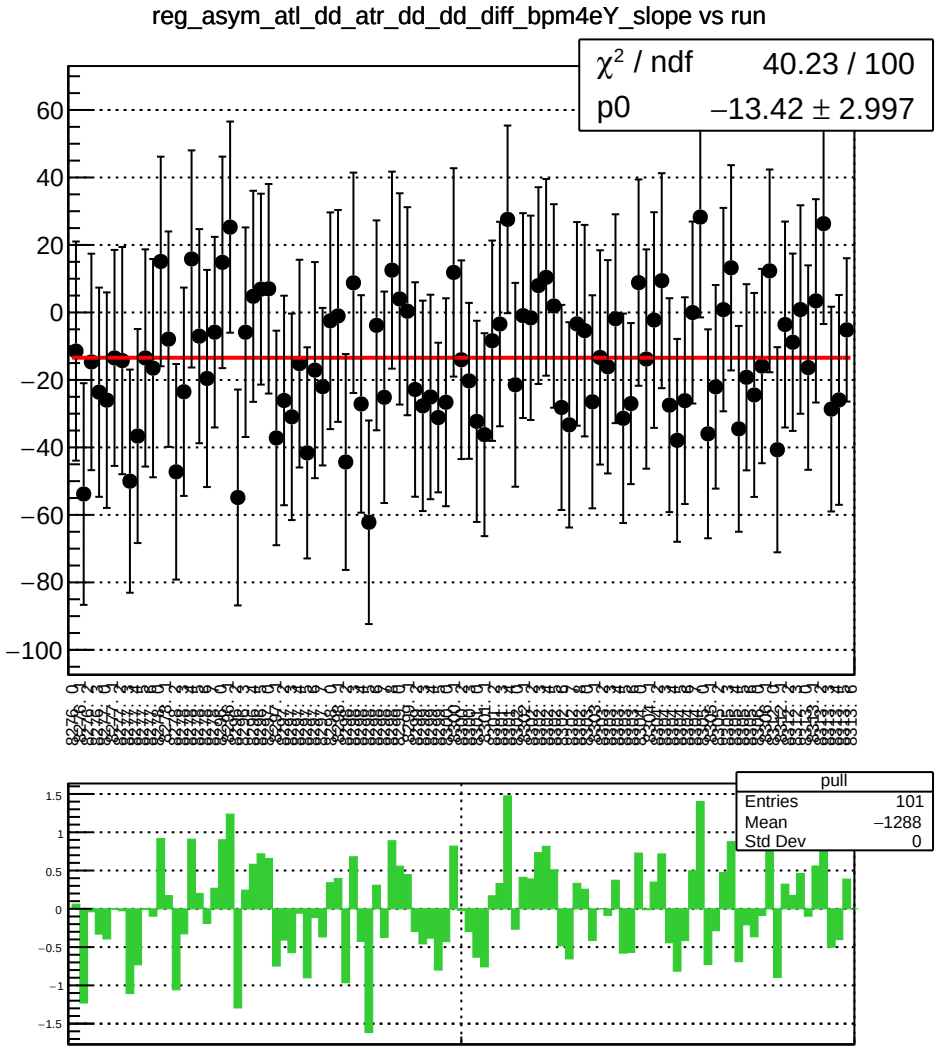

pull1D
Entries 101
Mean 0.0005865
Std Dev 0.2303
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

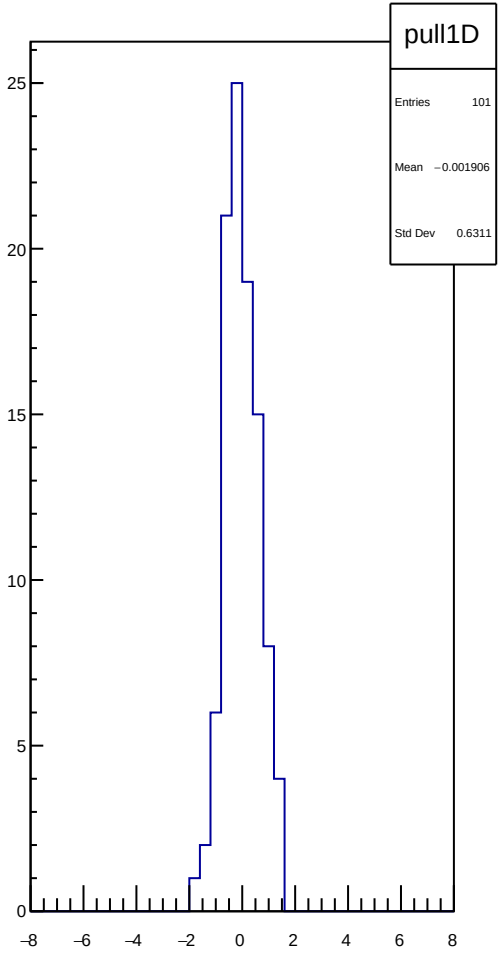

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 7.001 / 100
p0 130.9 ± 0.493
140
135
130
125
120
pull
Entries 101
Mean −175.7
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 101
Mean 0.003763
Std Dev 0.2633
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

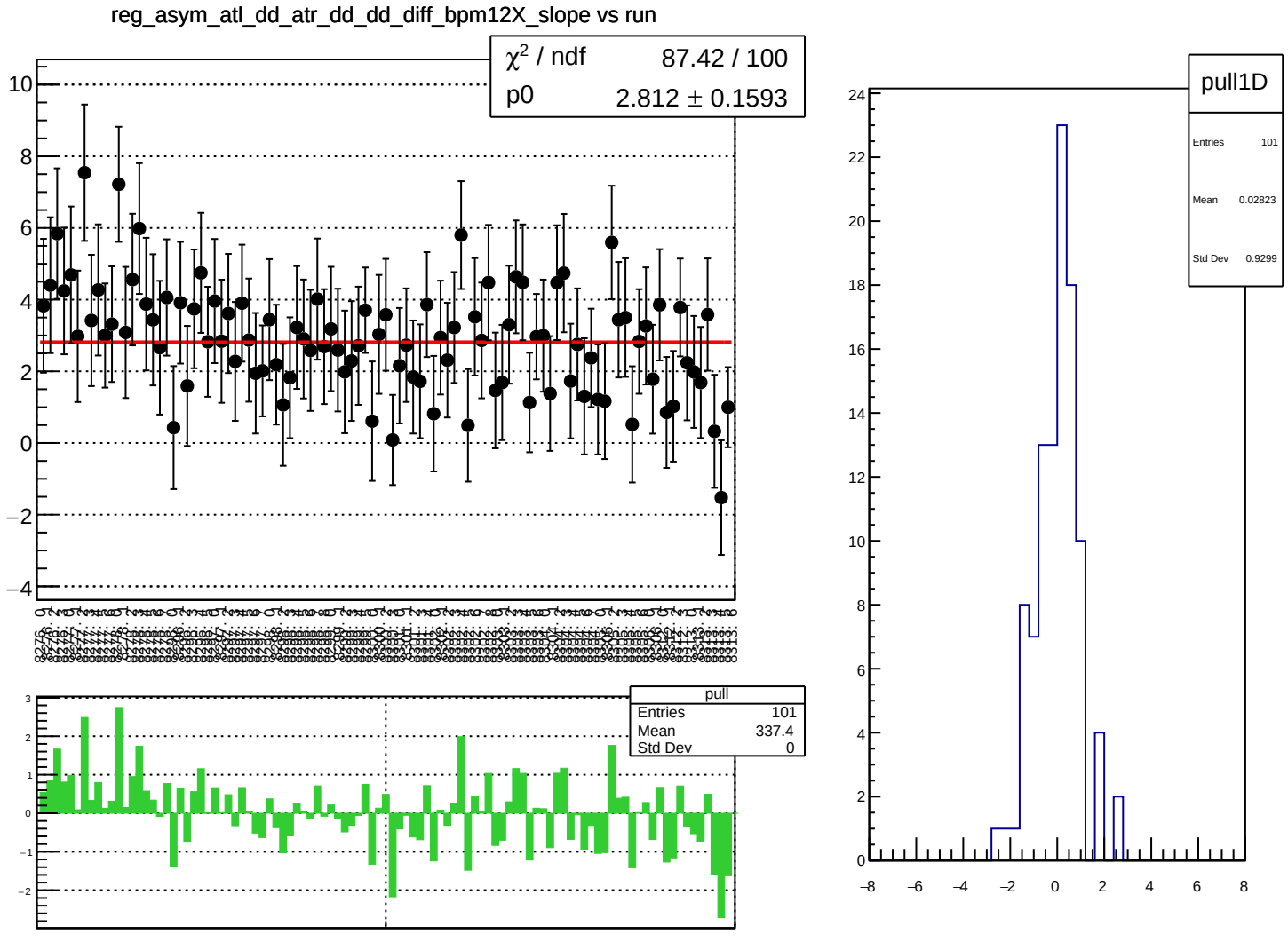

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 67.23 / 100
p0 3.659 ± 1.473
pull
Entries 101
Mean −234.6
Std Dev 0
pull1D
Entries 101
Mean −0.01001
Std Dev 0.8158

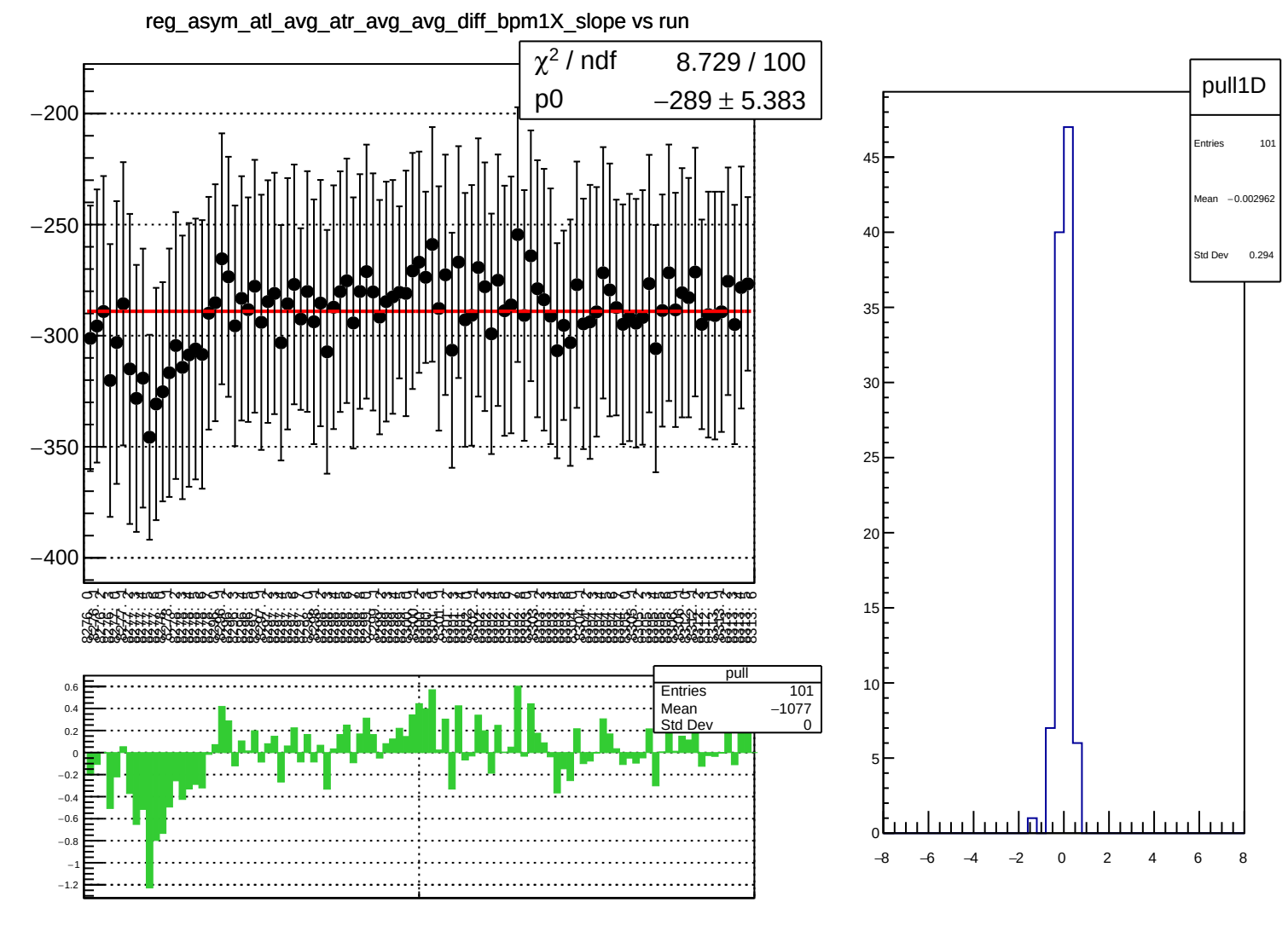

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 41.39 / 100
p0 10.29 ± 2.884
pull
Entries 101
Mean −2109
Std Dev 0
pull1D
Entries 101
Mean 0.001164
Std Dev 0.6402

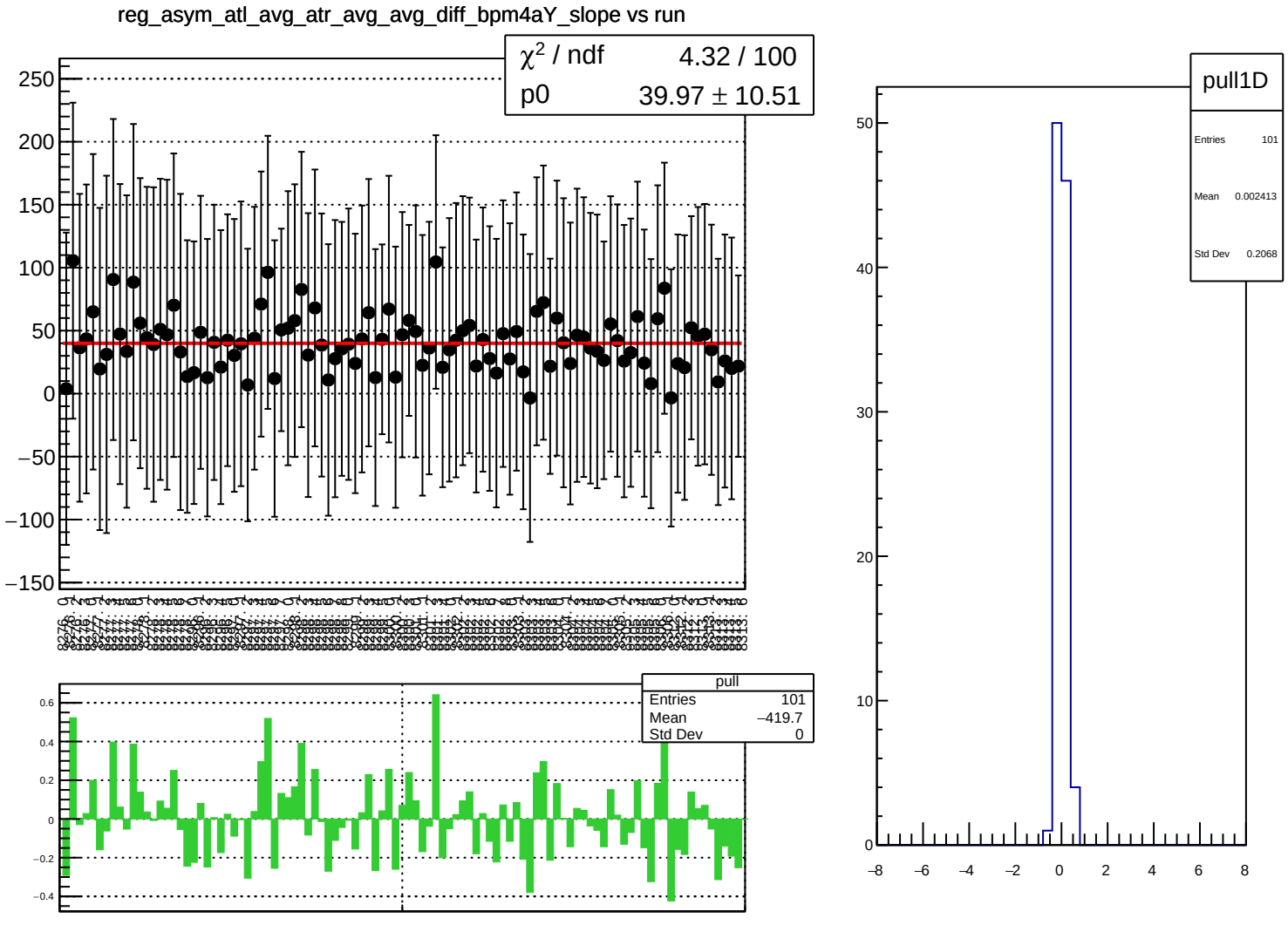

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 69.11 / 100
p0 61.22 ± 1.646
pull
Entries 101
Mean −247.4
Std Dev 0
pull1D
Entries 101
Mean 0.01053
Std Dev 0.8271

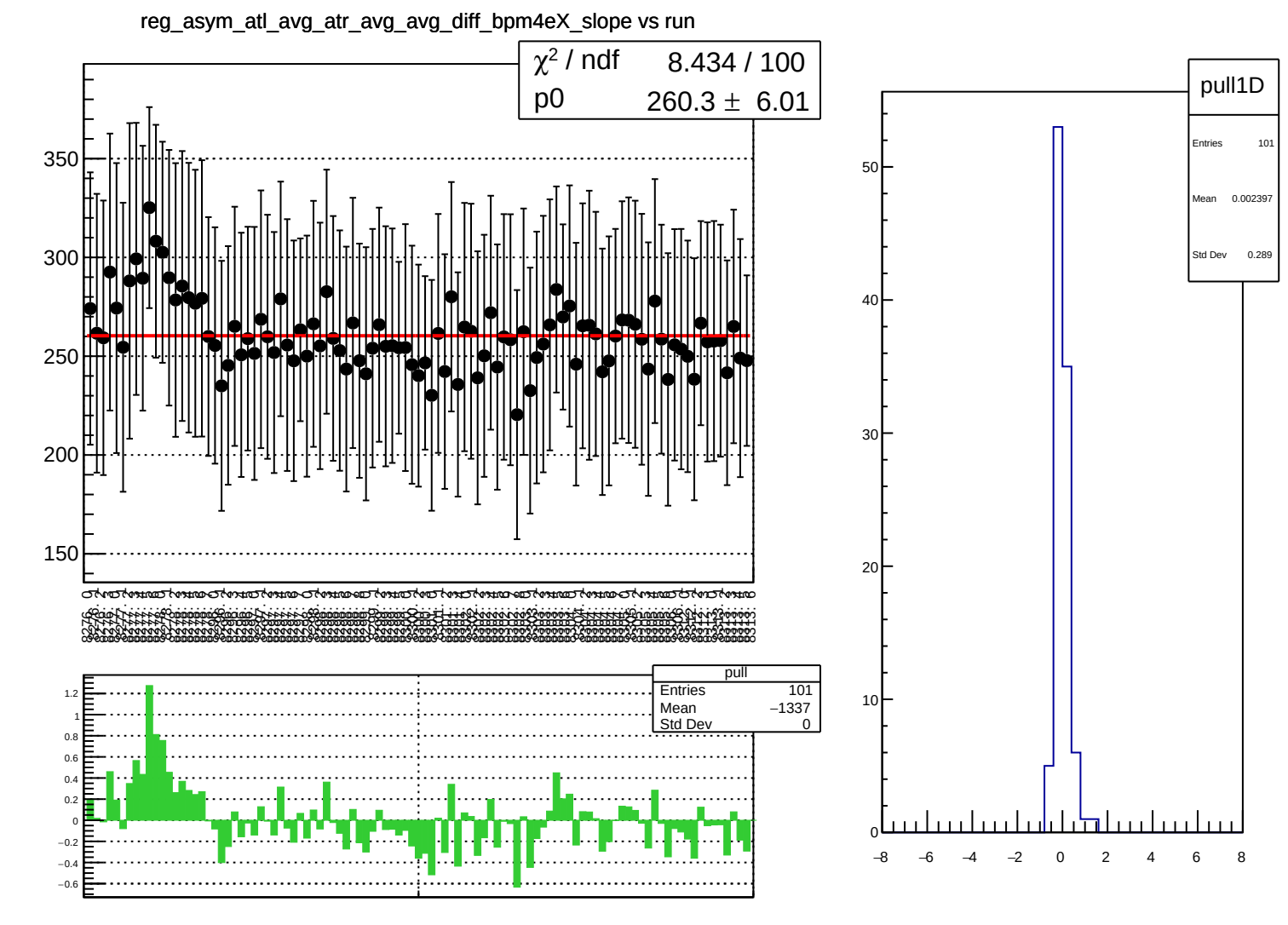

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 40.23 / 100
p0 −13.42 ± 2.997
pull
Entries 101
Mean −1288
Std Dev 0

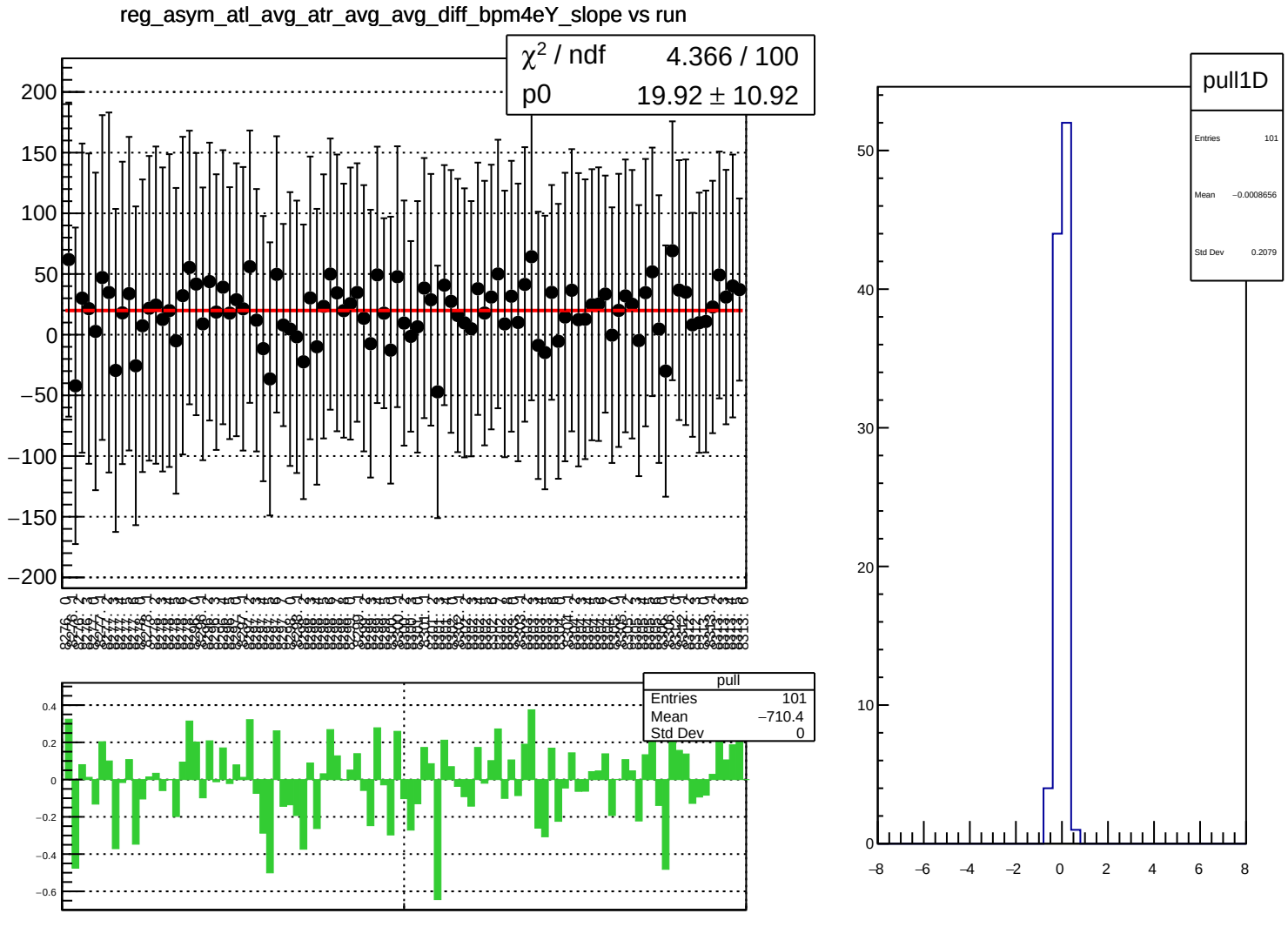

pull1D
Entries 101
Mean −0.001906
Std Dev 0.6311

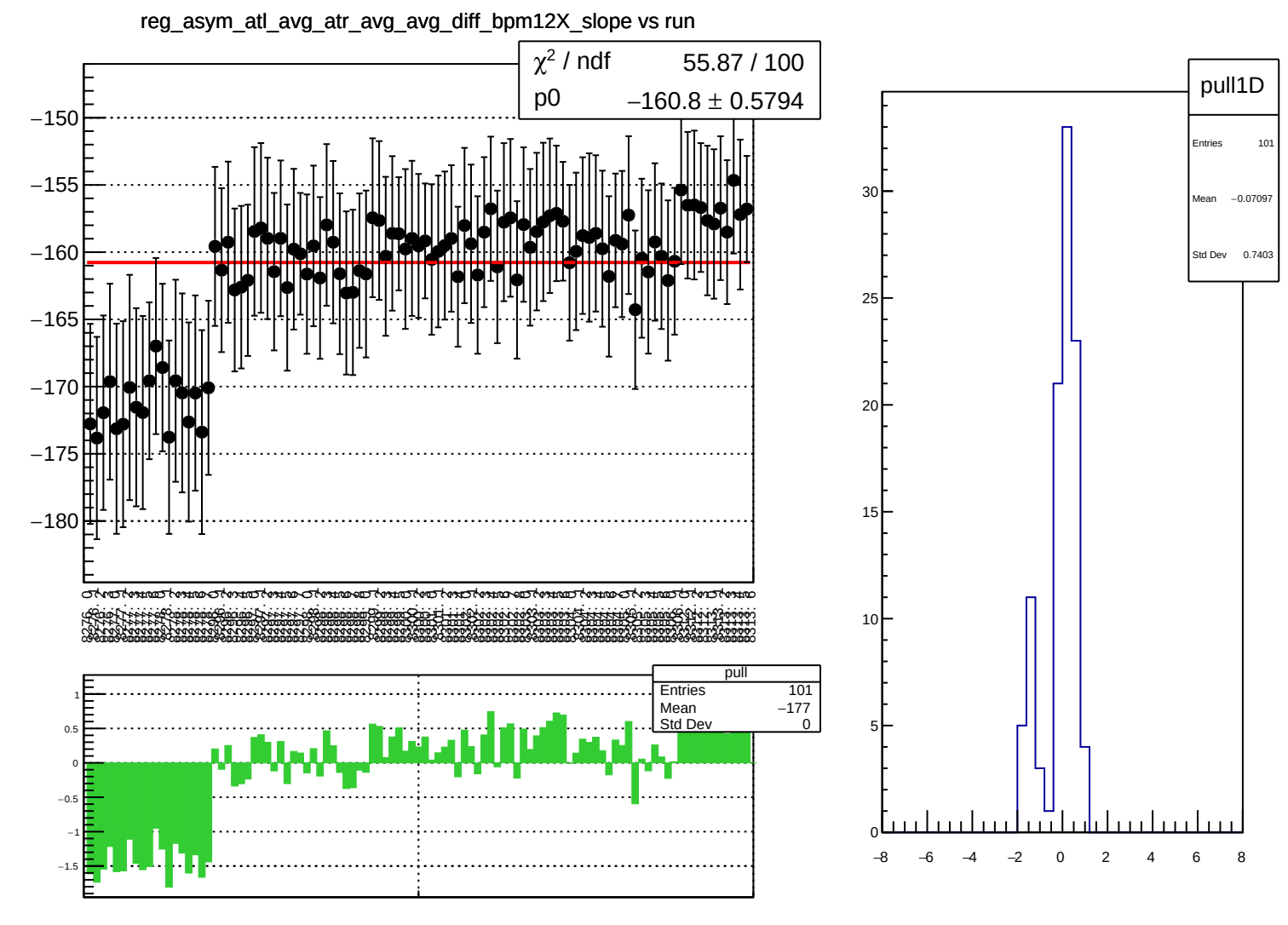

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 87.42 / 100
p0 2.812 ± 0.1593
pull
Entries 101
Mean −337.4
Std Dev 0
pull1D
Entries 101
Mean 0.02823
Std Dev 0.9299

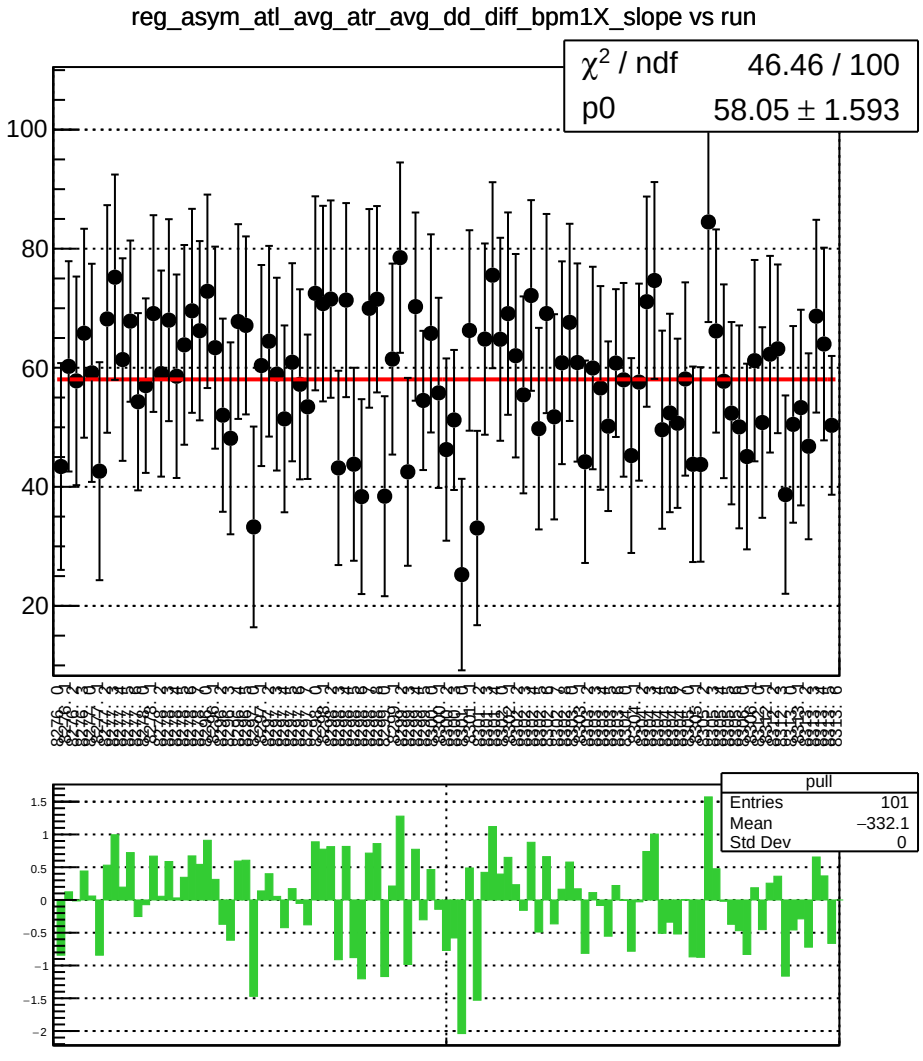

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 8.729 / 100
p0 −289 ± 5.383
−200
−250
−300
−350
−400
pull
Entries 101
Mean −1077
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 101
Mean −0.002962
Std Dev 0.294
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

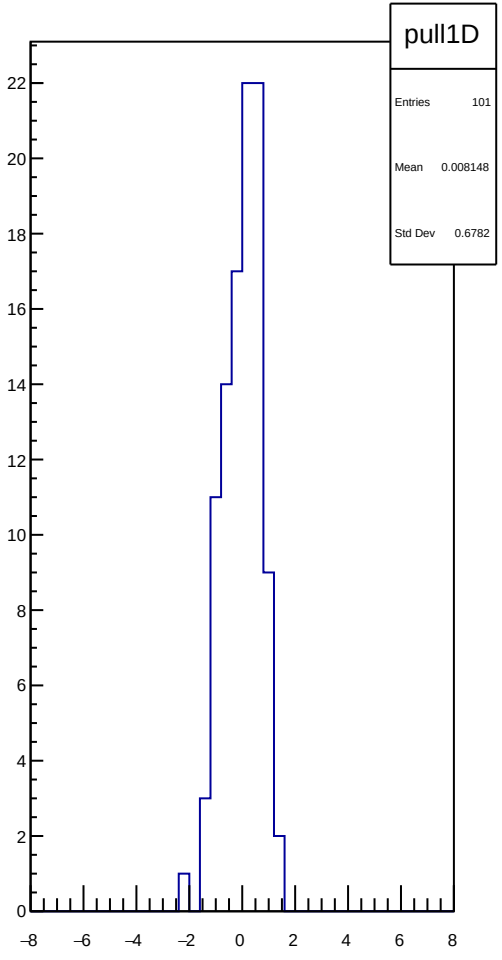

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.32 / 100
p0 39.97 ± 10.51
pull
Entries 101
Mean −419.7
Std Dev 0
pull1D
Entries 101
Mean 0.002413
Std Dev 0.2068

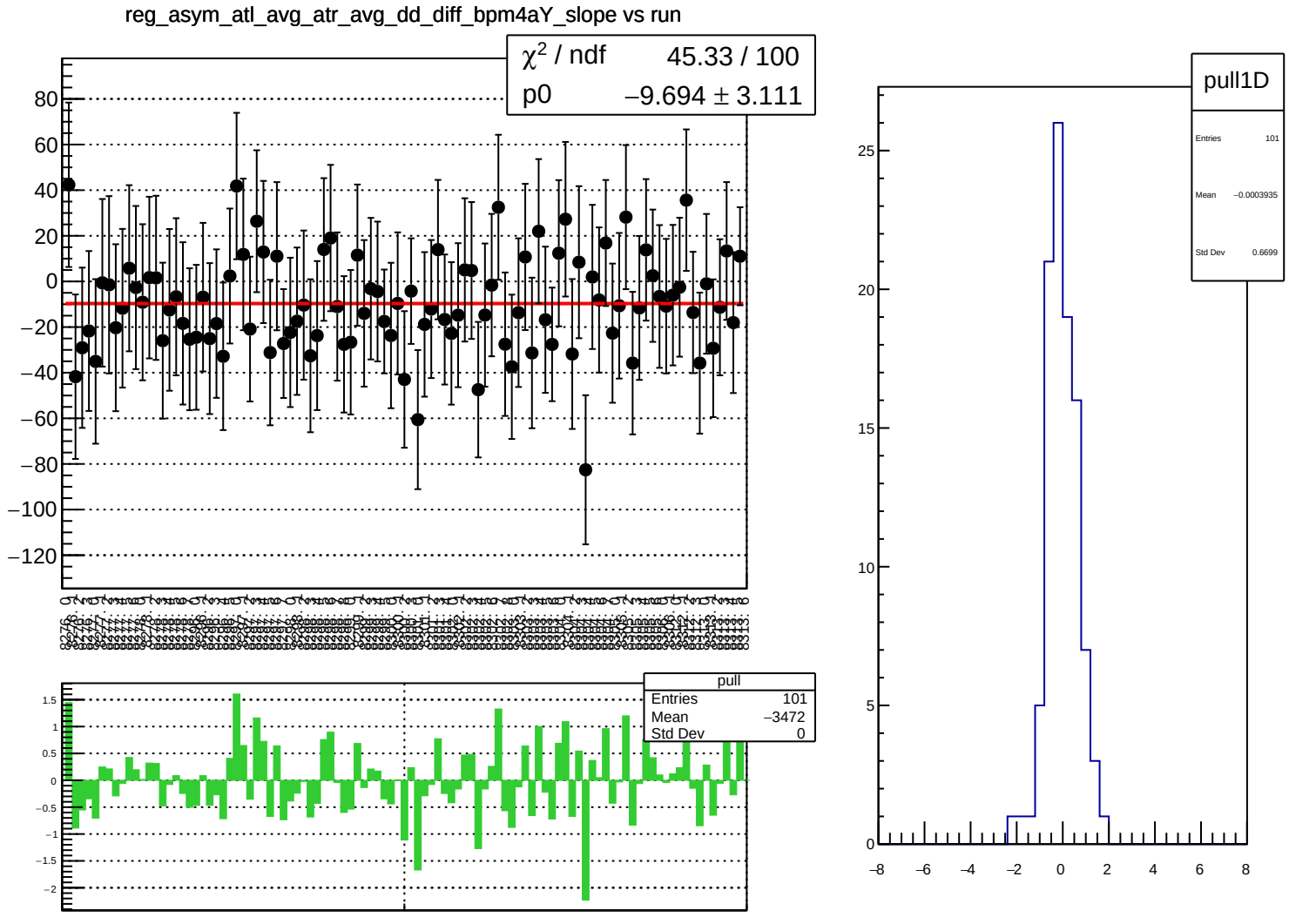

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.434 / 100
p0 260.3 ± 6.01
350
300
250
200
150
pull
Entries 101
Mean −1337
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 101
Mean 0.002397
Std Dev 0.289
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

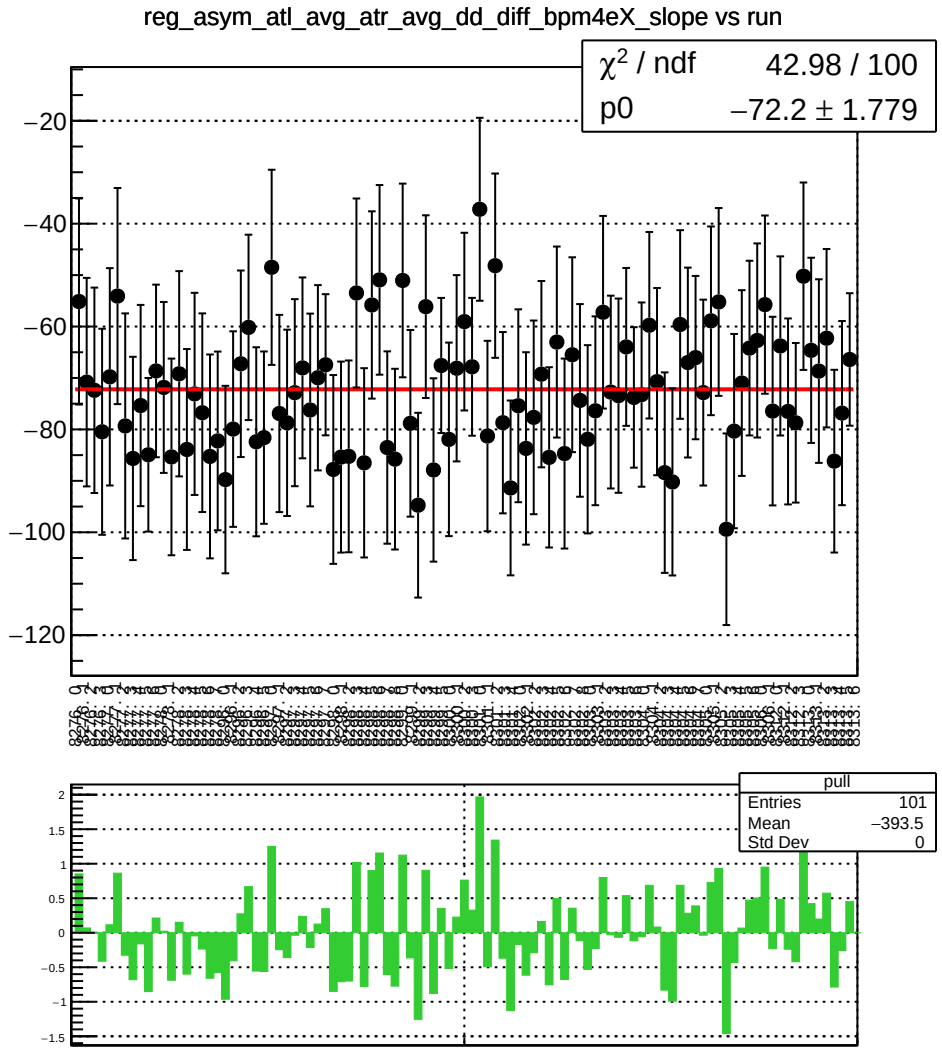

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.366 / 100
p0 19.92 ± 10.92
pull
Entries 101
Mean −710.4
Std Dev 0
pull1D
Entries 101
Mean −0.0008656
Std Dev 0.2079

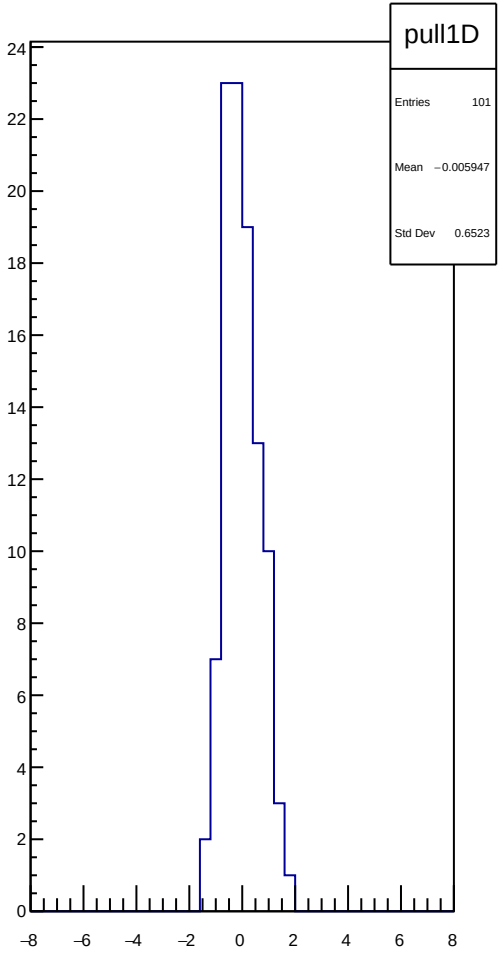

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 55.87 / 100
p0 −160.8 ± 0.5794
−150
−155
−160
−165
−170
−175
−180
pull
Entries 101
Mean −177
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 101
Mean −0.07097
Std Dev 0.7403
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

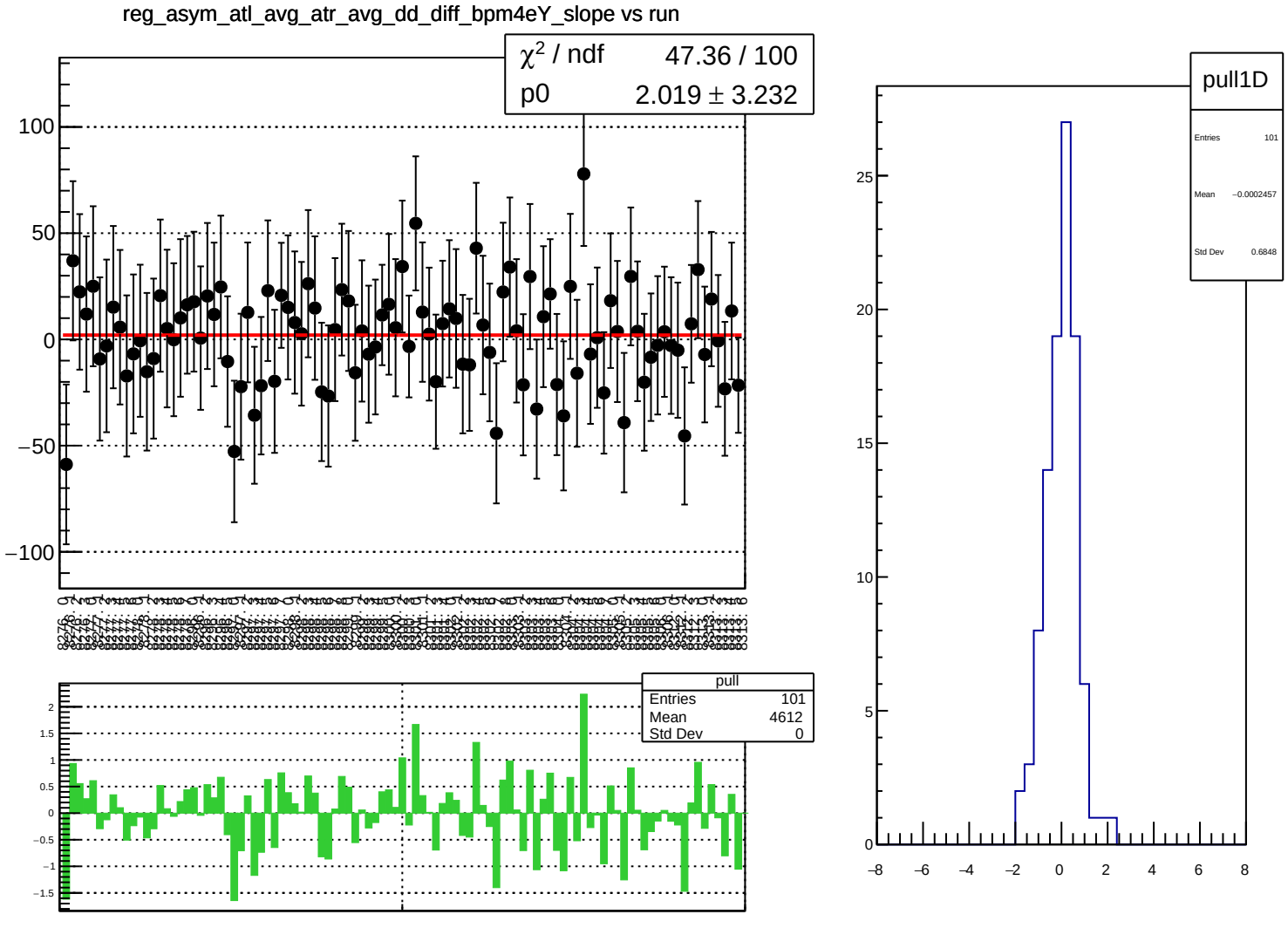

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 46.46 / 100
p0 58.05 ± 1.593
pull
Entries 101
Mean −332.1
Std Dev 0

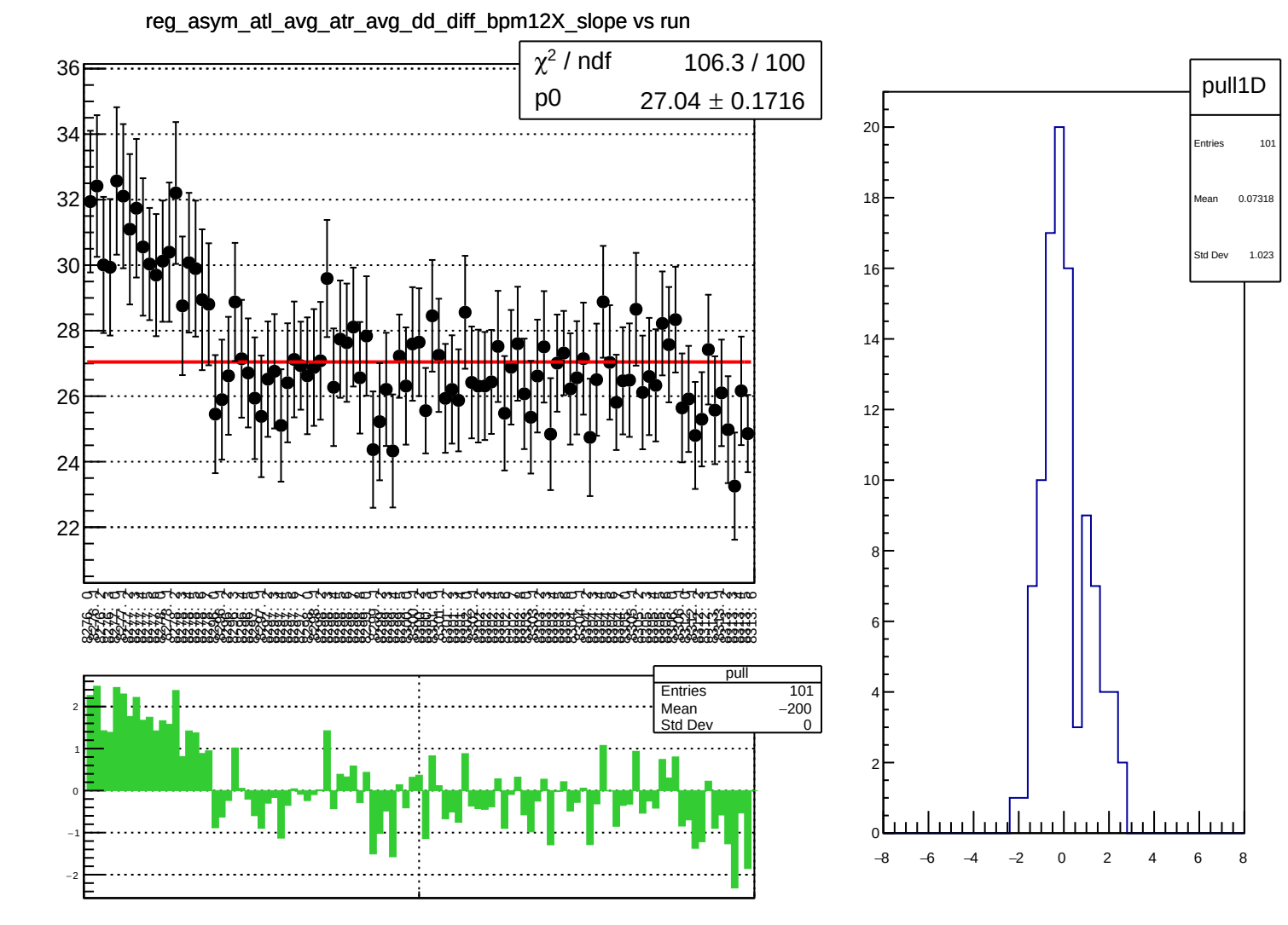

pull1D
Entries 101
Mean 0.008148
Std Dev 0.6782

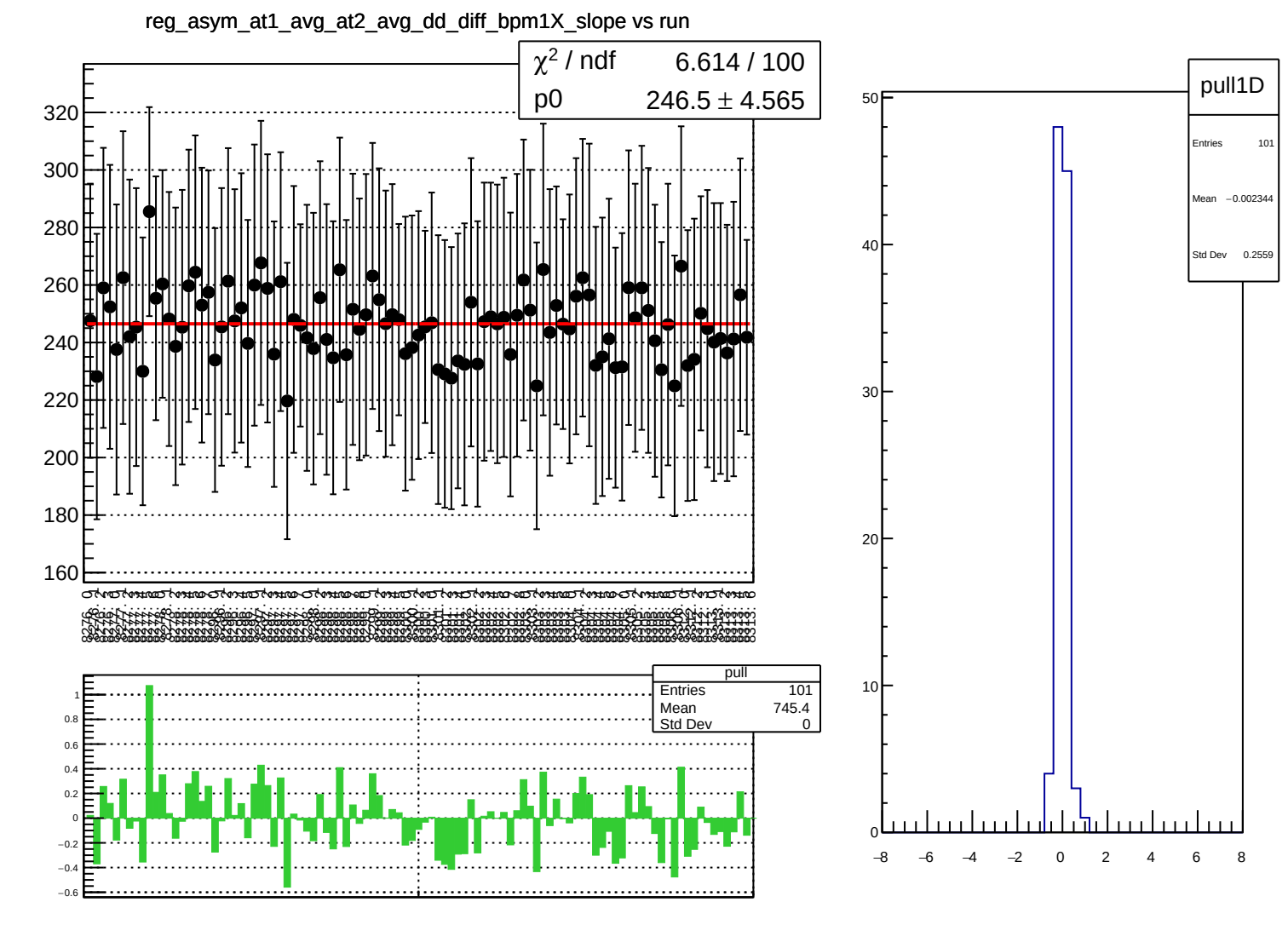

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 45.33 / 100
p0 −9.694 ± 3.111
pull
Entries 101
Mean −3472
Std Dev 0
pull1D
Entries 101
Mean −0.0003935
Std Dev 0.6699

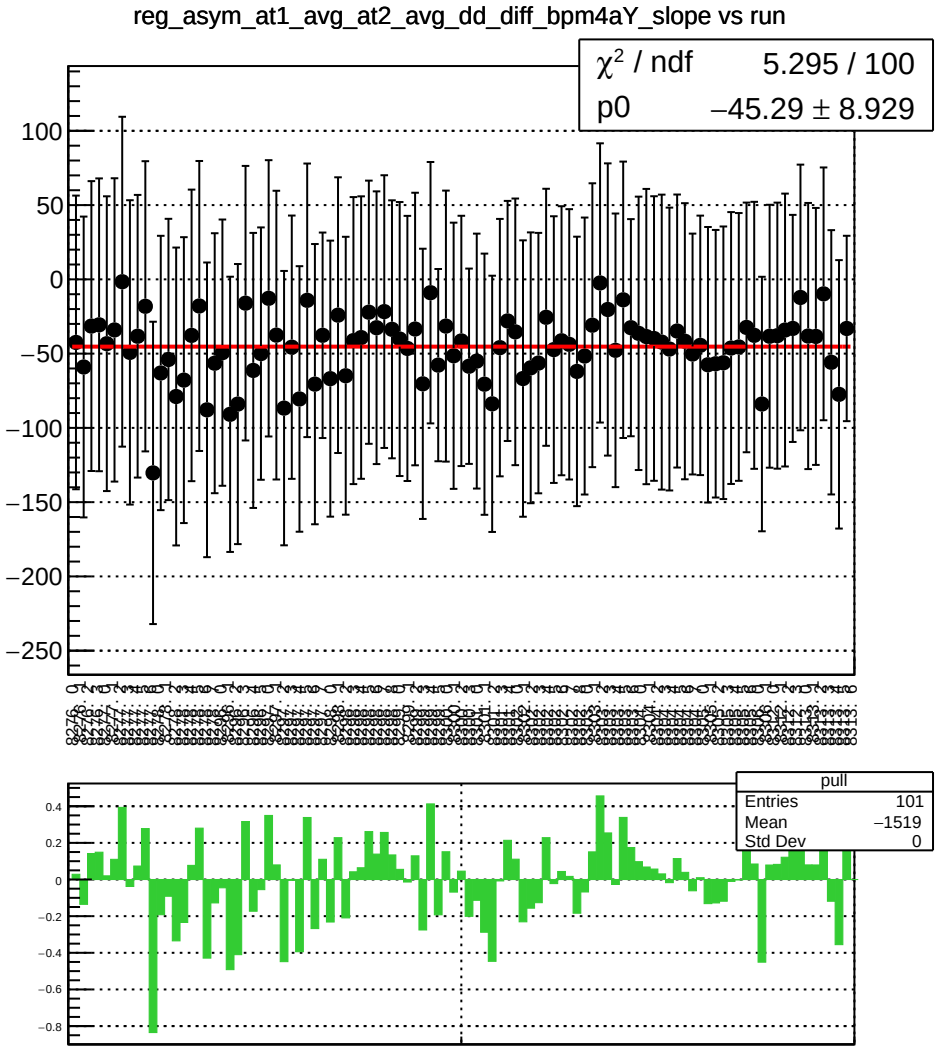

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 42.98 / 100
p0 −72.2 ± 1.779
pull
Entries 101
Mean −393.5
Std Dev 0

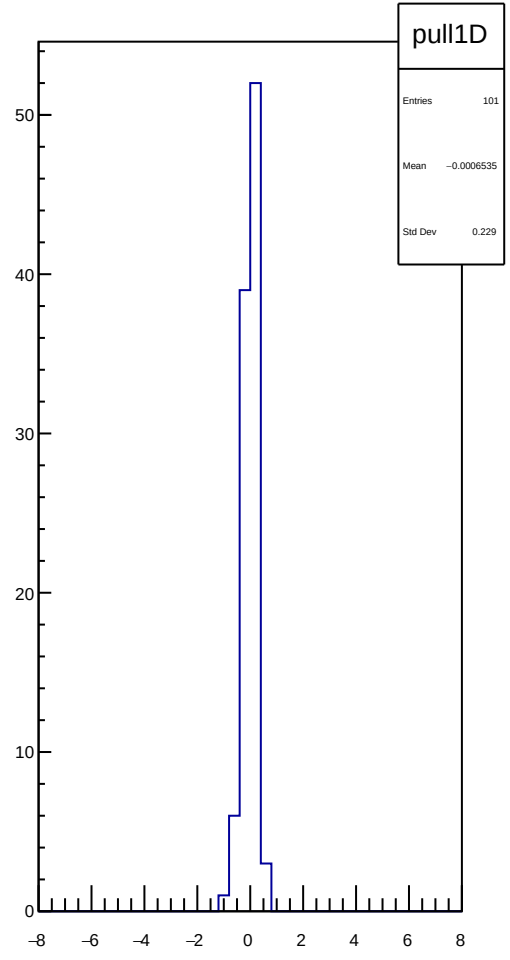

pull1D
Entries 101
Mean −0.005947
Std Dev 0.6523

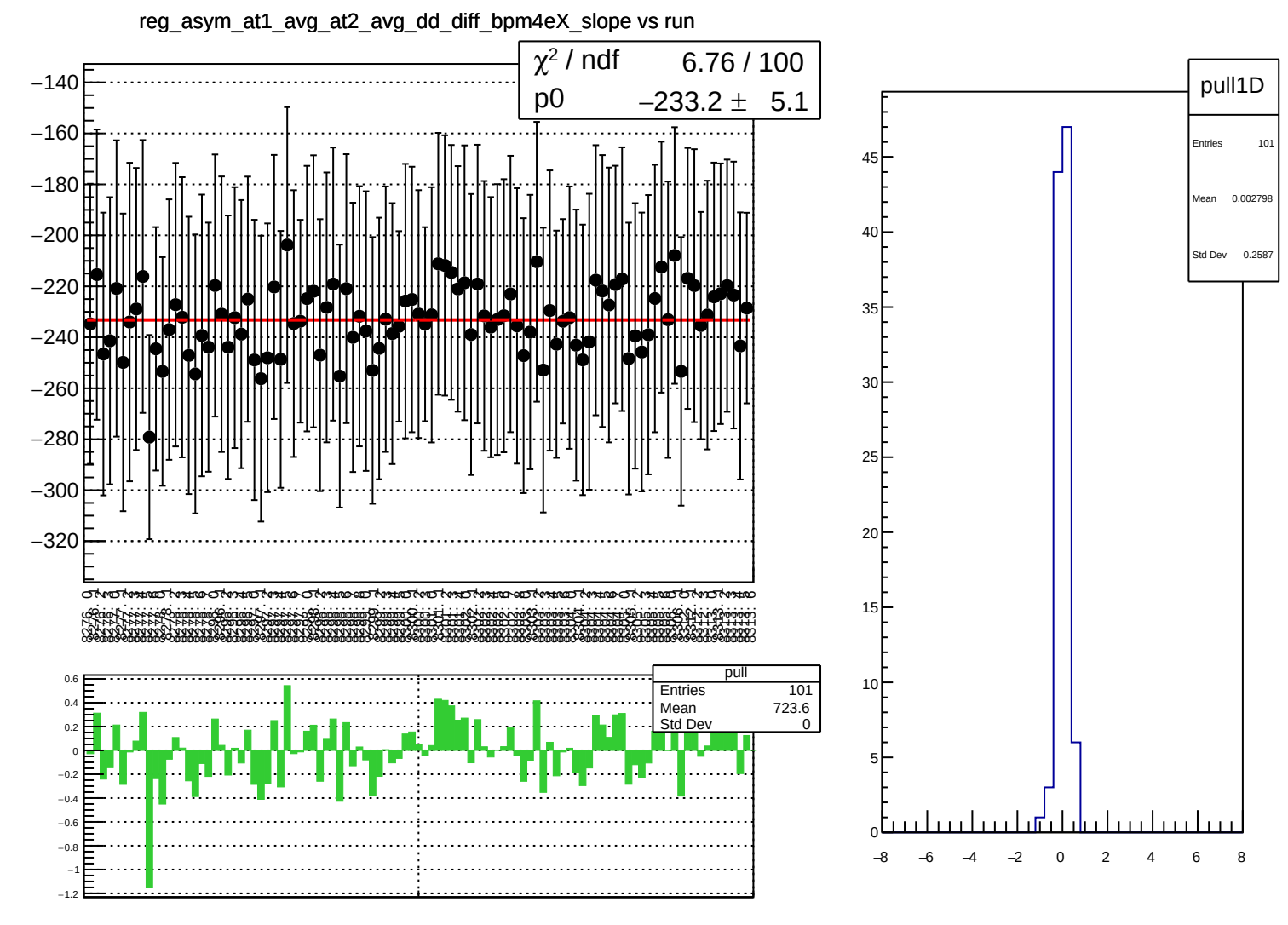

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 47.36 / 100
p0 2.019 ± 3.232
pull
Entries 101
Mean 4612
Std Dev 0
pull1D
Entries 101
Mean −0.0002457
Std Dev 0.6848

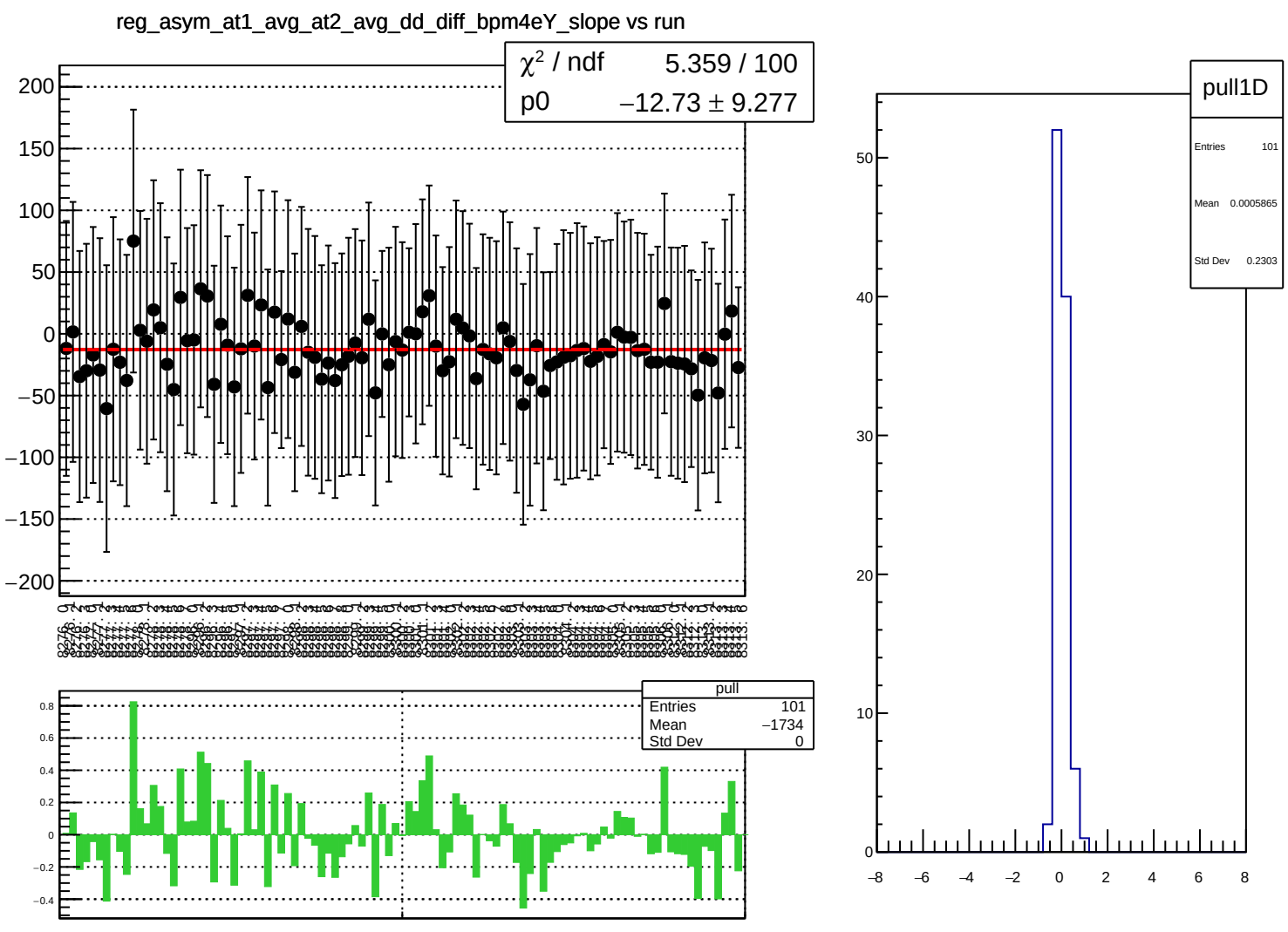

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 106.3 / 100
p0 27.04 ± 0.1716
pull
Entries 101
Mean −200
Std Dev 0
pull1D
Entries 101
Mean 0.07318
Std Dev 1.023

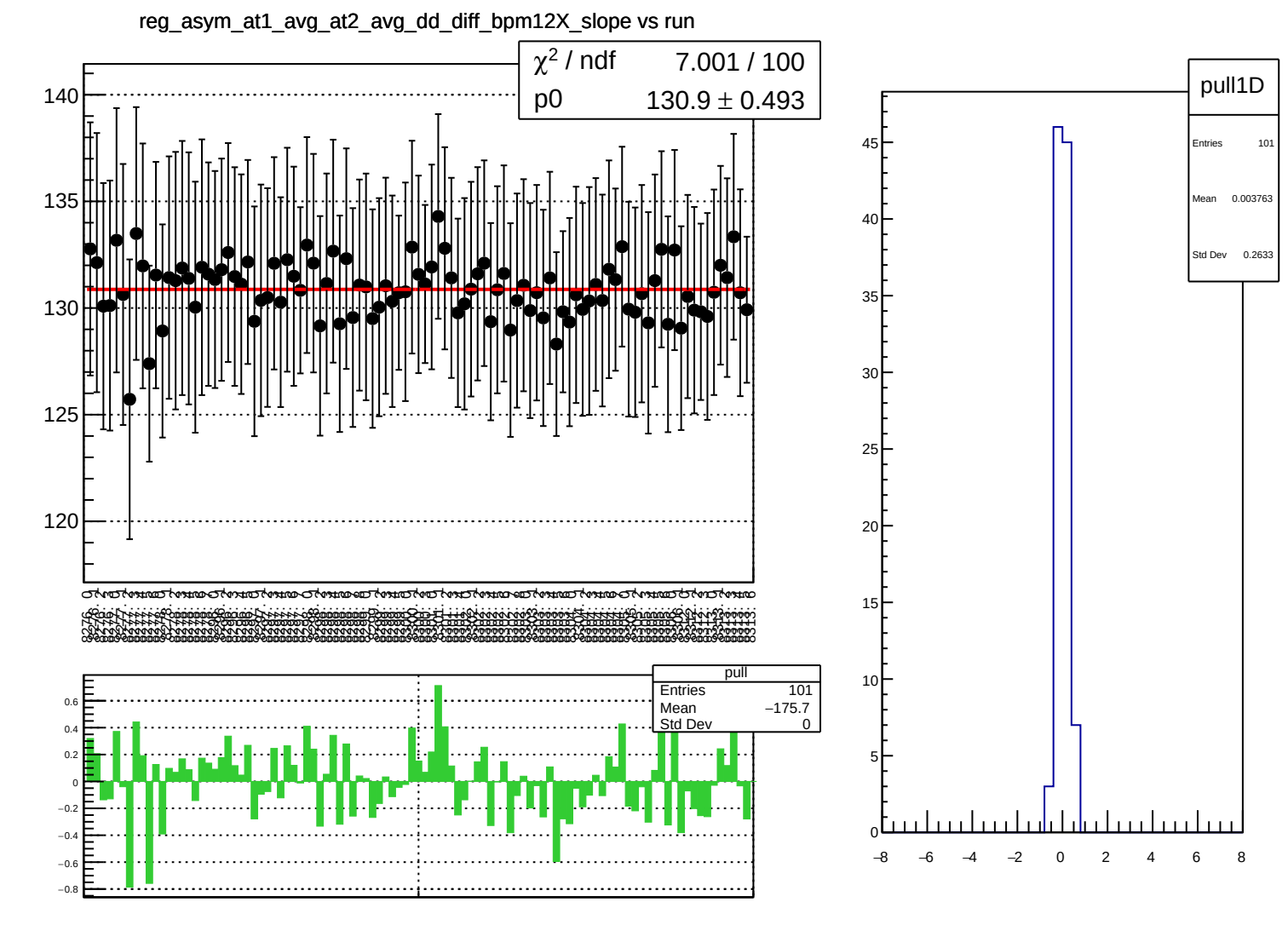

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 6.614 / 100
p0 246.5 ± 4.565
pull
Entries 101
Mean 745.4
Std Dev 0
pull1D
Entries 101
Mean −0.002344
Std Dev 0.2559

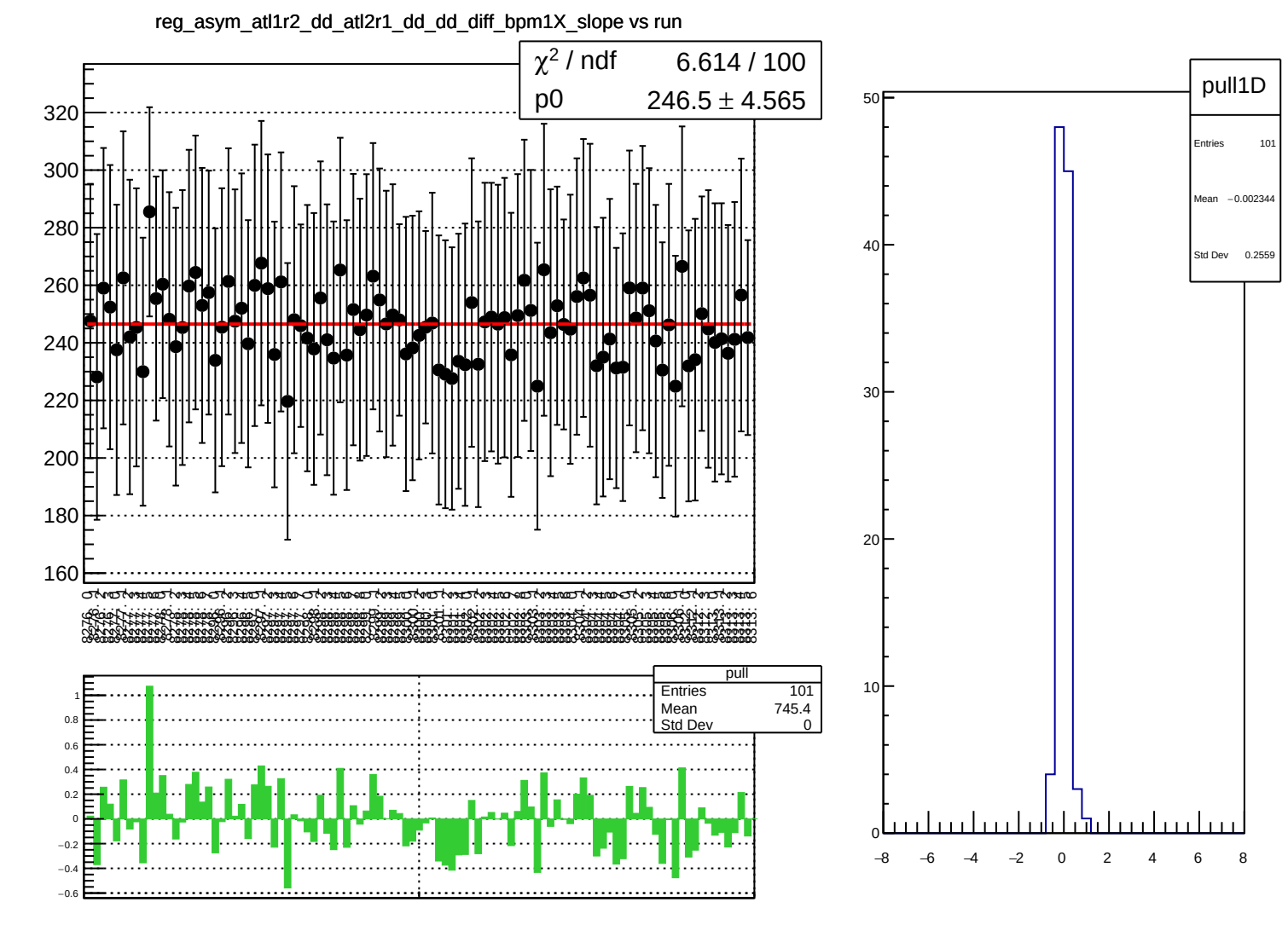

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.295 / 100
p0 −45.29 ± 8.929
pull
Entries 101
Mean −1519
Std Dev 0

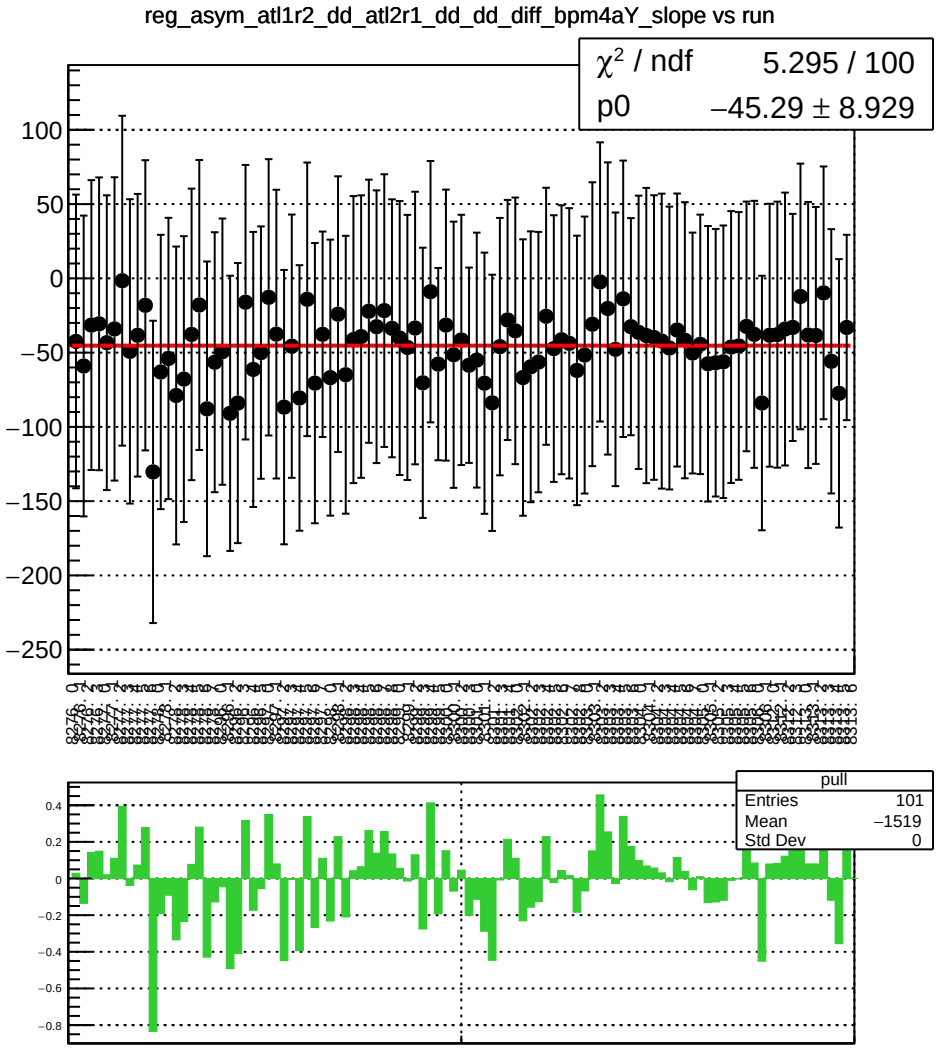

pull1D
Entries 101
Mean −0.0006535
Std Dev 0.229

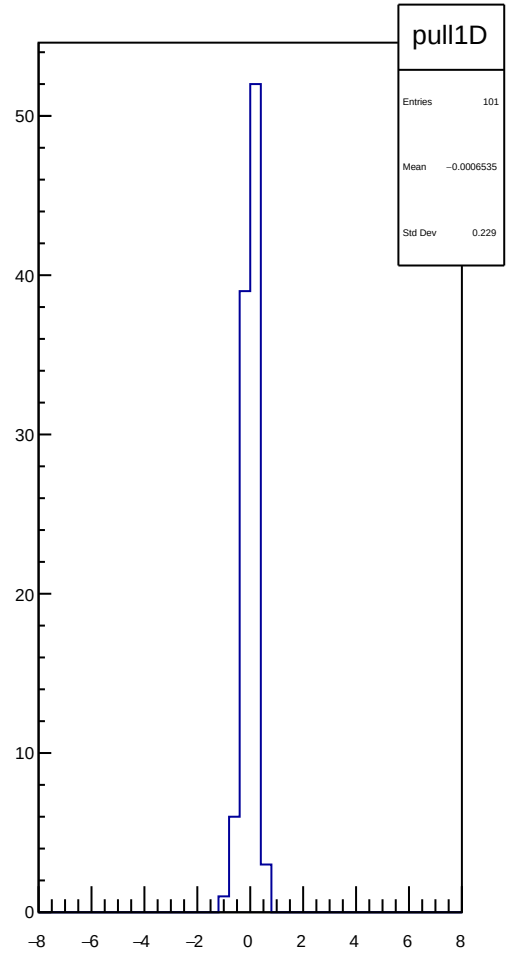

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.76 / 100
p0 −233.2 ± 5.1
pull
Entries 101
Mean 723.6
Std Dev 0
pull1D
Entries 101
Mean 0.002798
Std Dev 0.2587

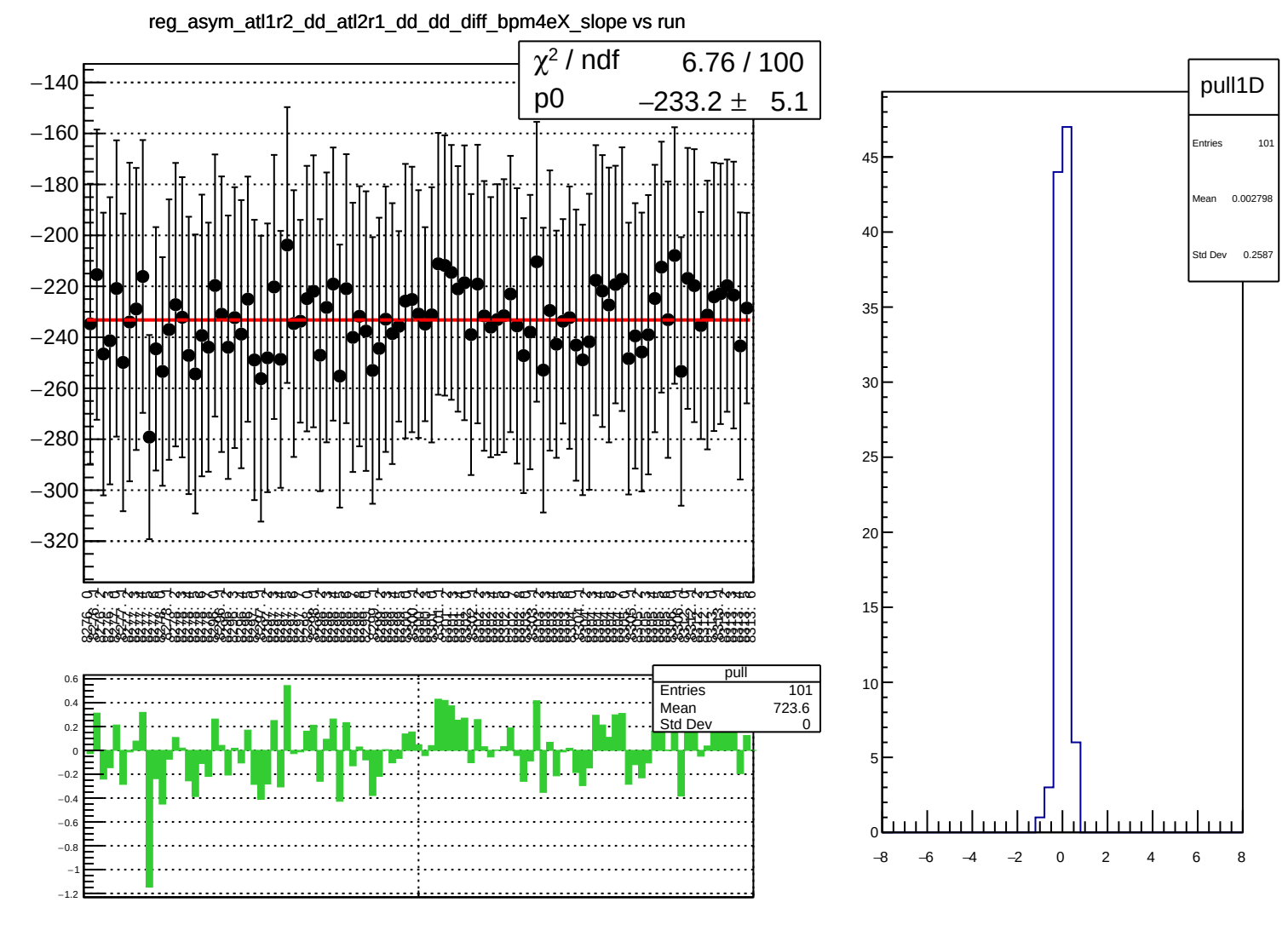

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.359 / 100
p0 −12.73 ± 9.277
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 101
Mean −1734
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 101
Mean 0.0005865
Std Dev 0.2303
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

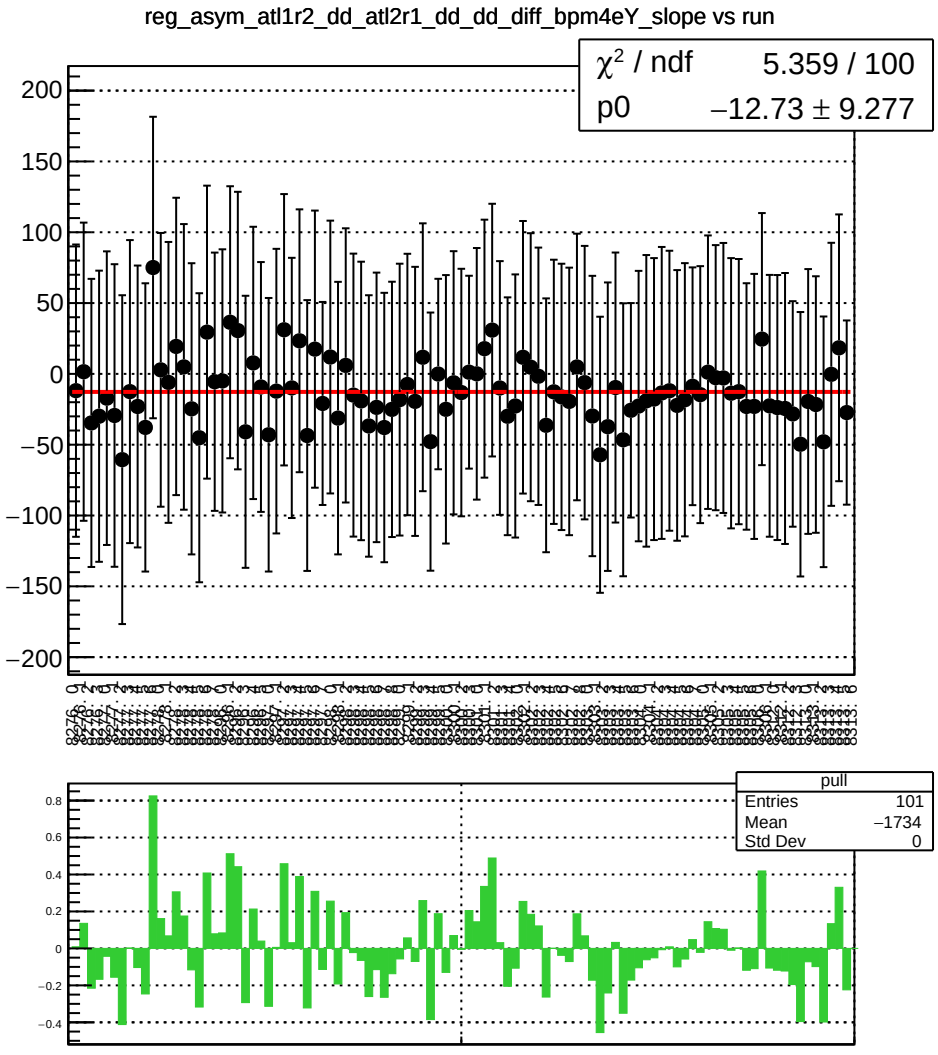

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 7.001 / 100
p0 130.9 ± 0.493
140
135
130
125
120
pull
Entries 101
Mean −175.7
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 101
Mean 0.003763
Std Dev 0.2633
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

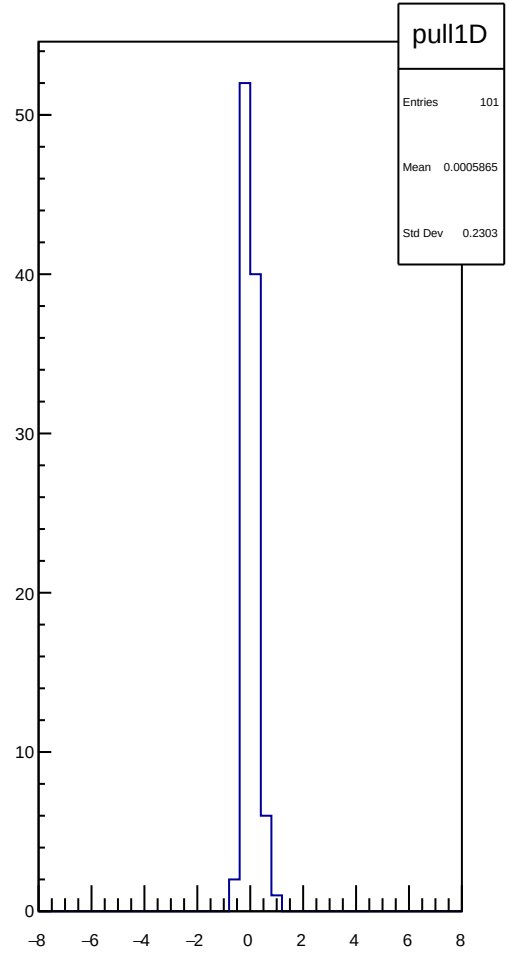

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 6.614 / 100
p0 246.5 ± 4.565
320
300
280
260
240
220
200
180
160
pull
Entries 101
Mean 745.4
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 101
Mean −0.002344
Std Dev 0.2559
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

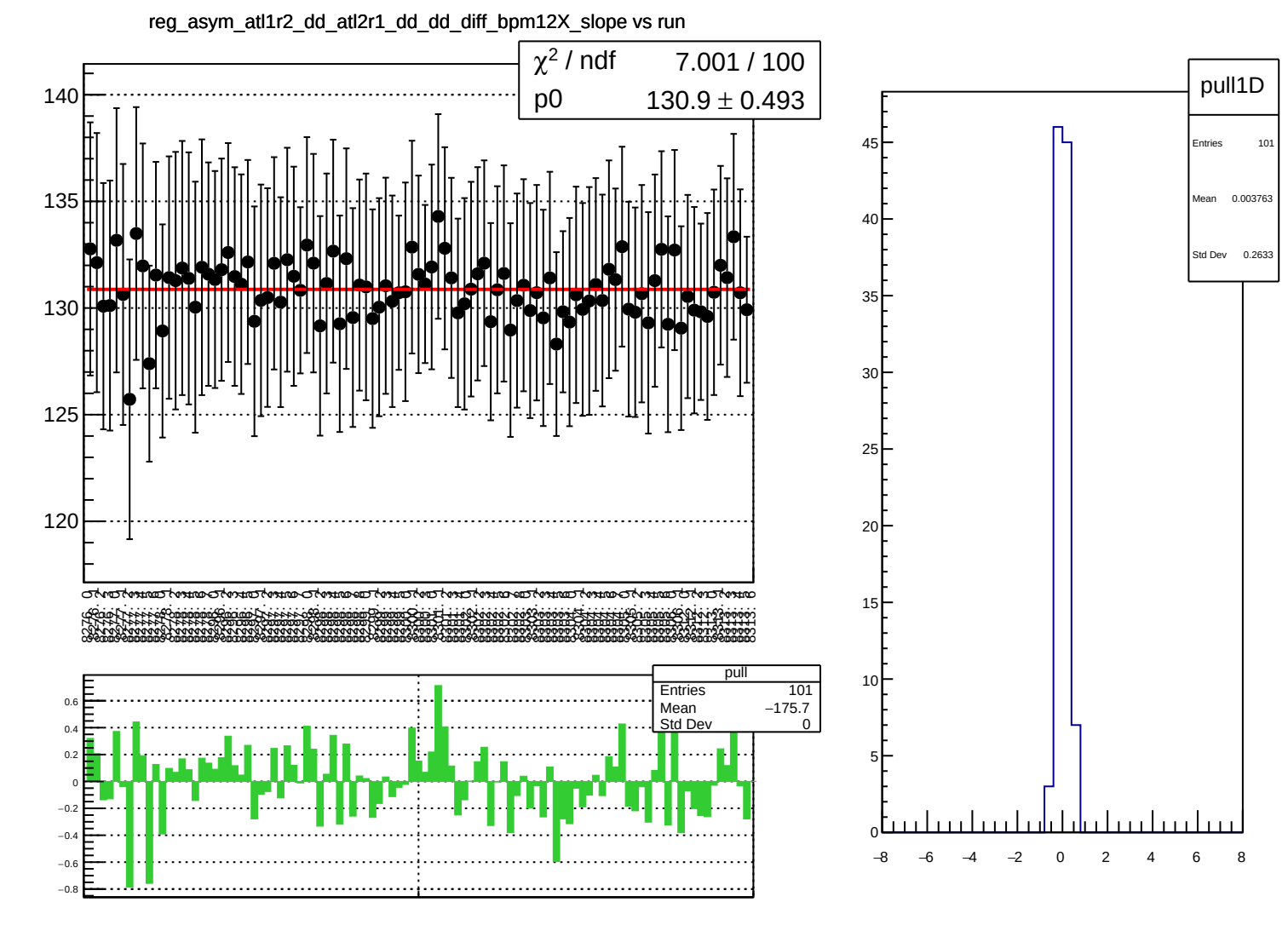

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.295 / 100
p0 −45.29 ± 8.929
pull
Entries 101
Mean −1519
Std Dev 0

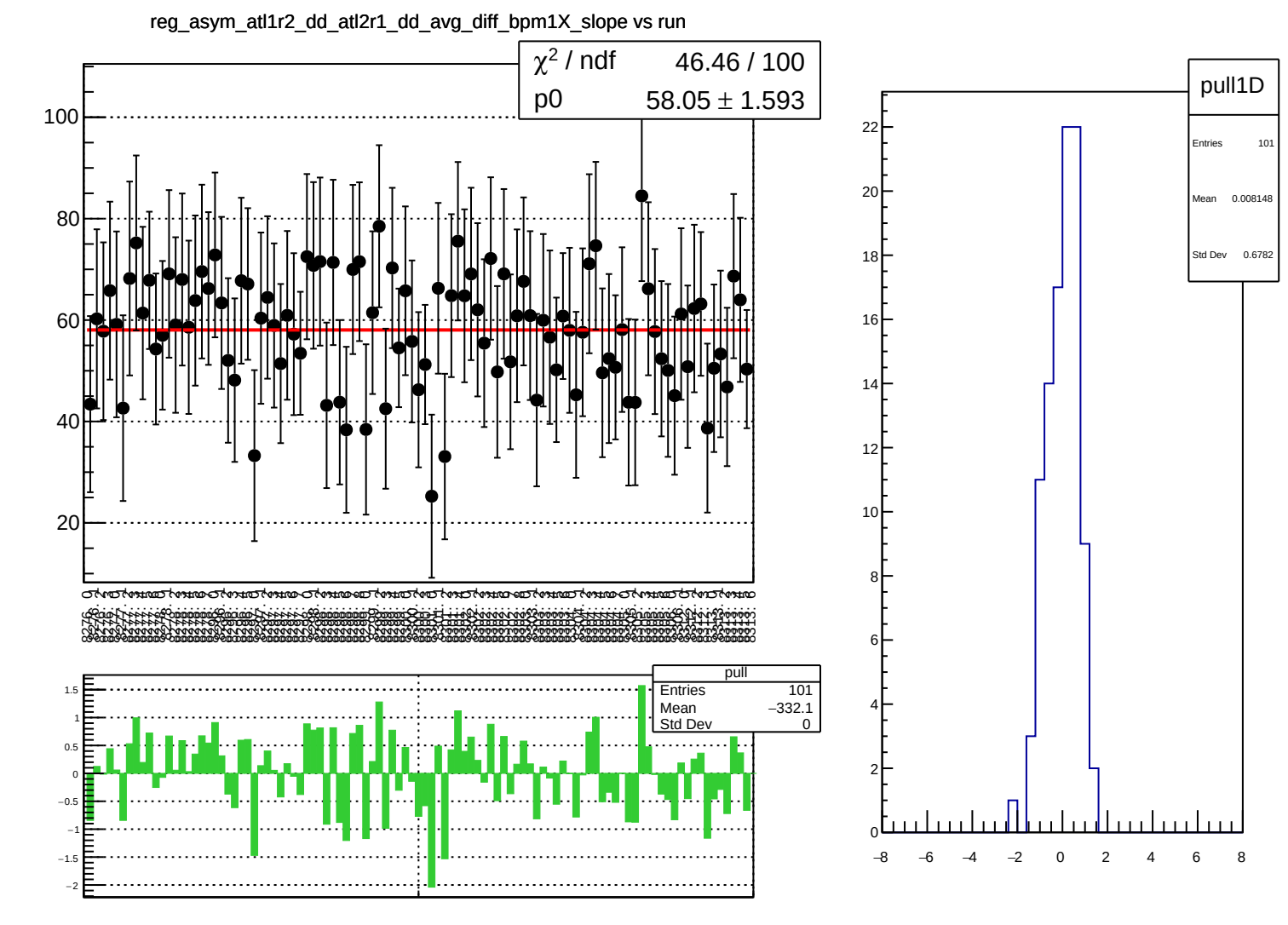

pull1D
Entries 101
Mean −0.0006535
Std Dev 0.229

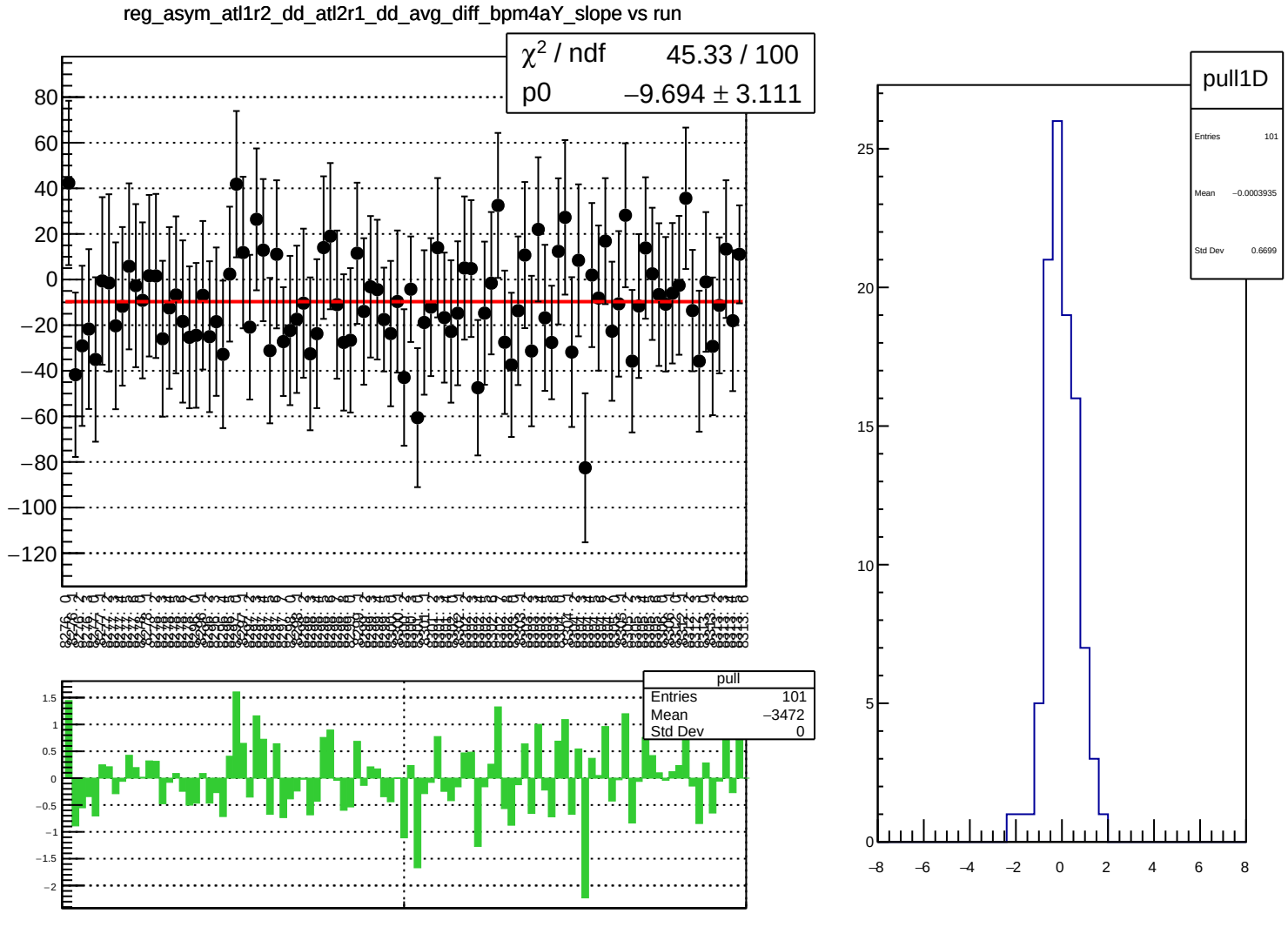

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.76 / 100
p0 −233.2 ± 5.1
pull
Entries 101
Mean 723.6
Std Dev 0
pull1D
Entries 101
Mean 0.002798
Std Dev 0.2587

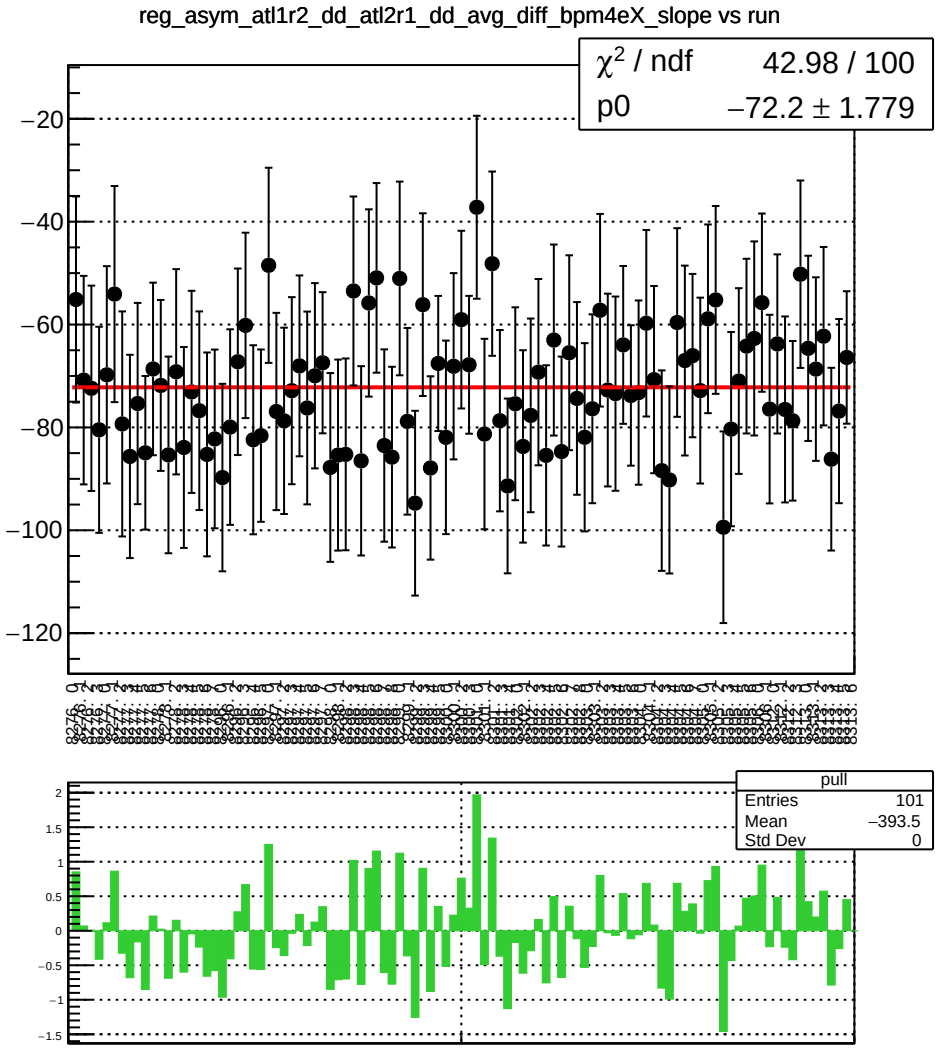

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.359 / 100
p0 −12.73 ± 9.277
pull
Entries 101
Mean −1734
Std Dev 0

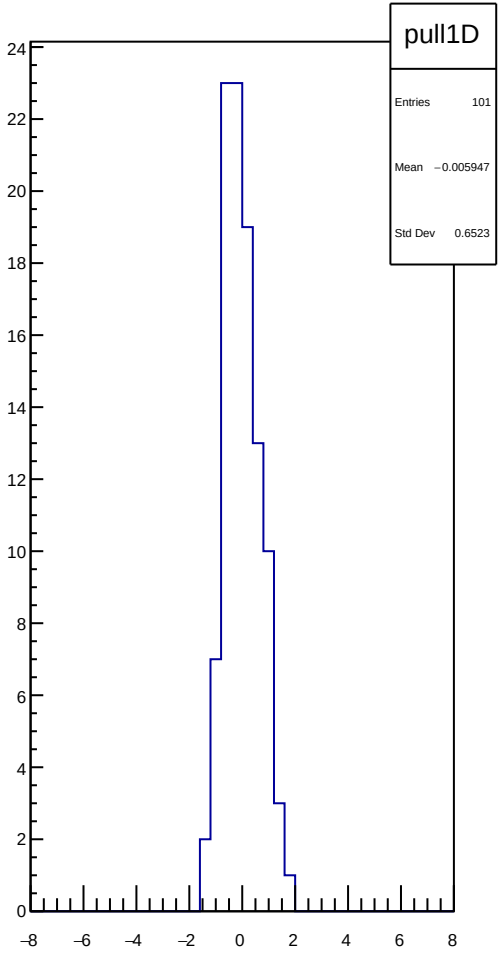

pull1D
Entries 101
Mean 0.0005865
Std Dev 0.2303

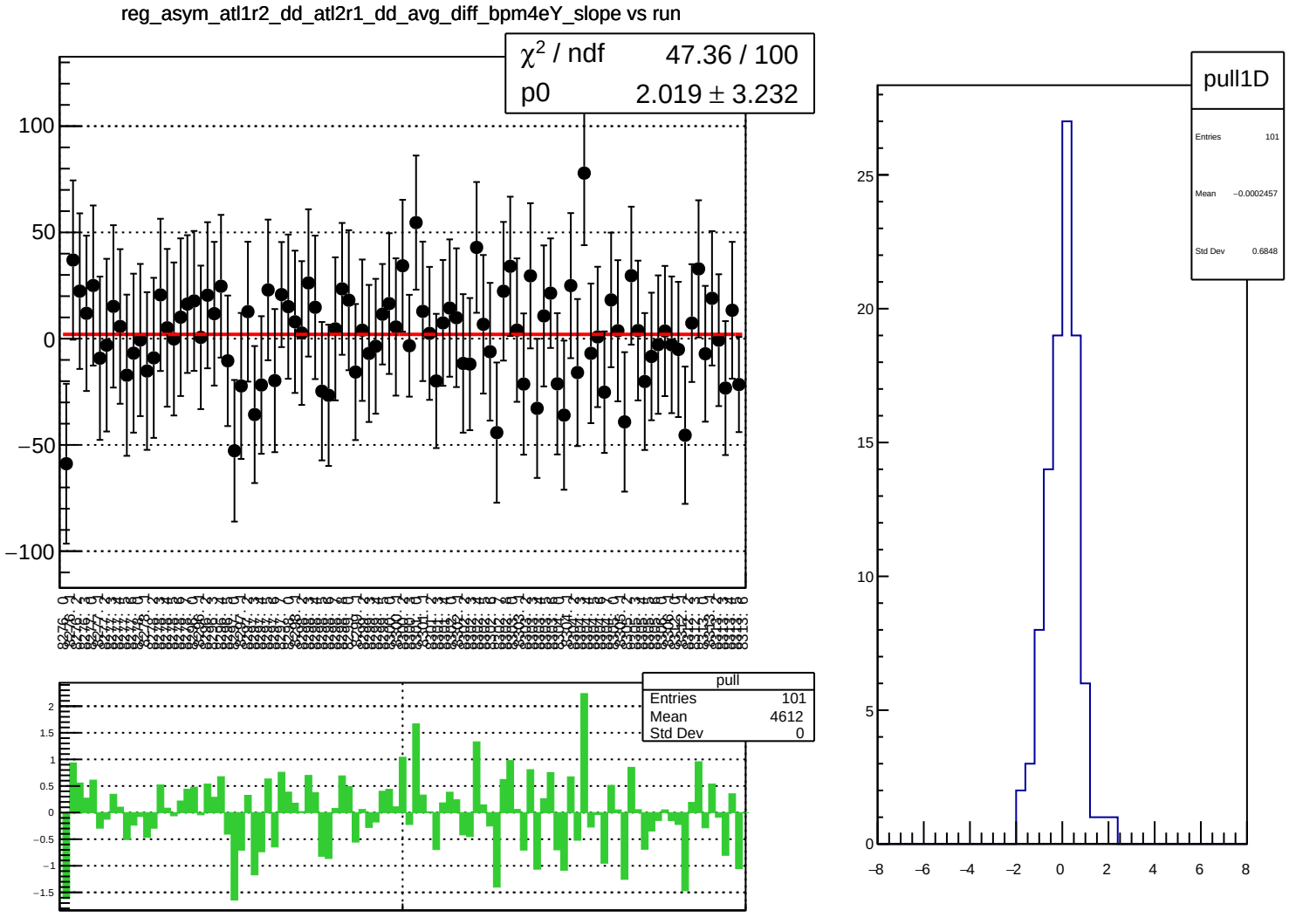

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 7.001 / 100
p0 130.9 ± 0.493
140
135
130
125
120
pull
Entries 101
Mean −175.7
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 101
Mean 0.003763
Std Dev 0.2633
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

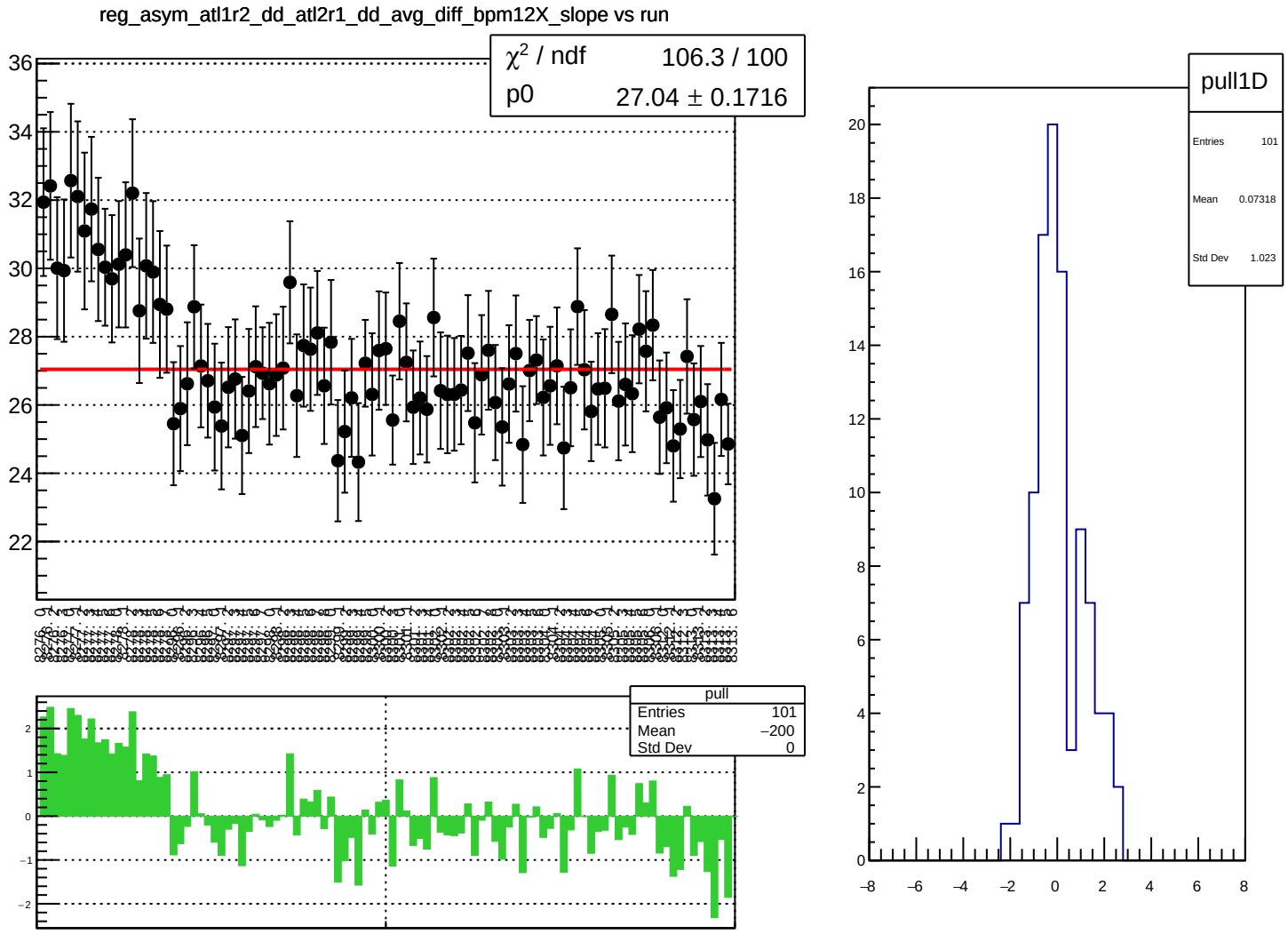

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 46.46 / 100
p0 58.05 ± 1.593
pull
Entries 101
Mean −332.1
Std Dev 0
pull1D
Entries 101
Mean 0.008148
Std Dev 0.6782

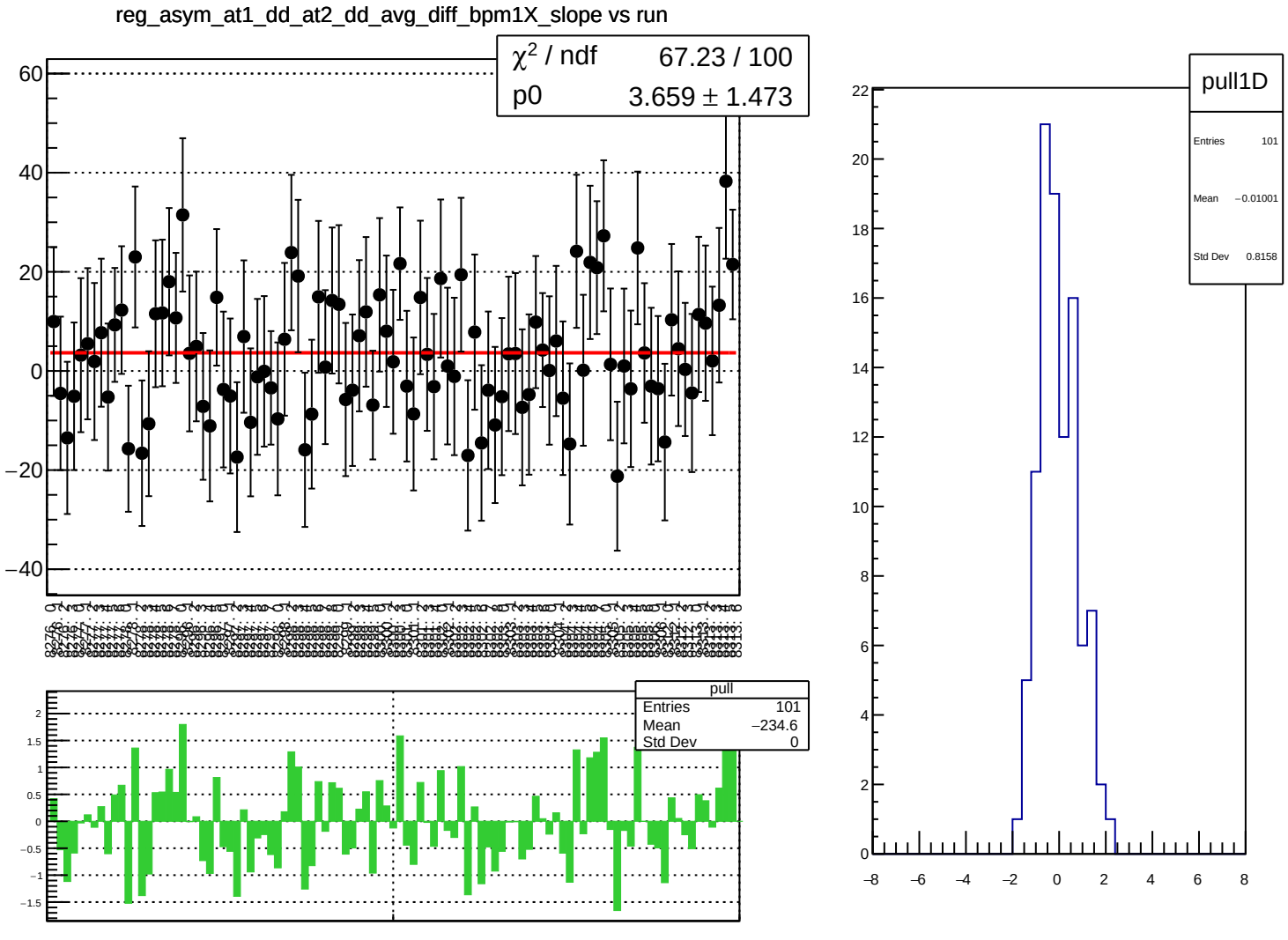

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 45.33 / 100
p0 −9.694 ± 3.111
pull
Entries 101
Mean −3472
Std Dev 0
pull1D
Entries 101
Mean −0.0003935
Std Dev 0.6699

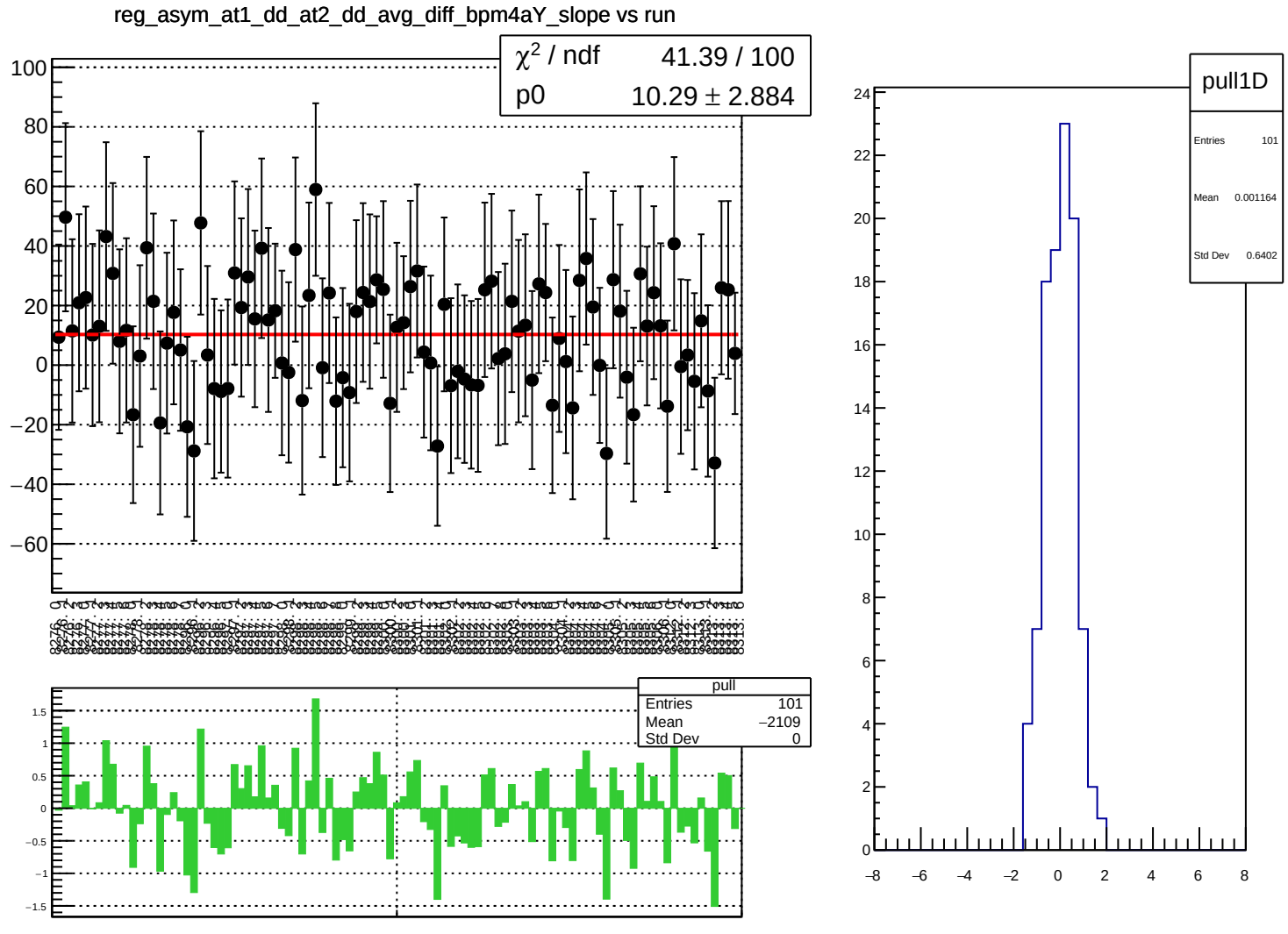

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 42.98 / 100
p0 −72.2 ± 1.779
pull
Entries 101
Mean −393.5
Std Dev 0

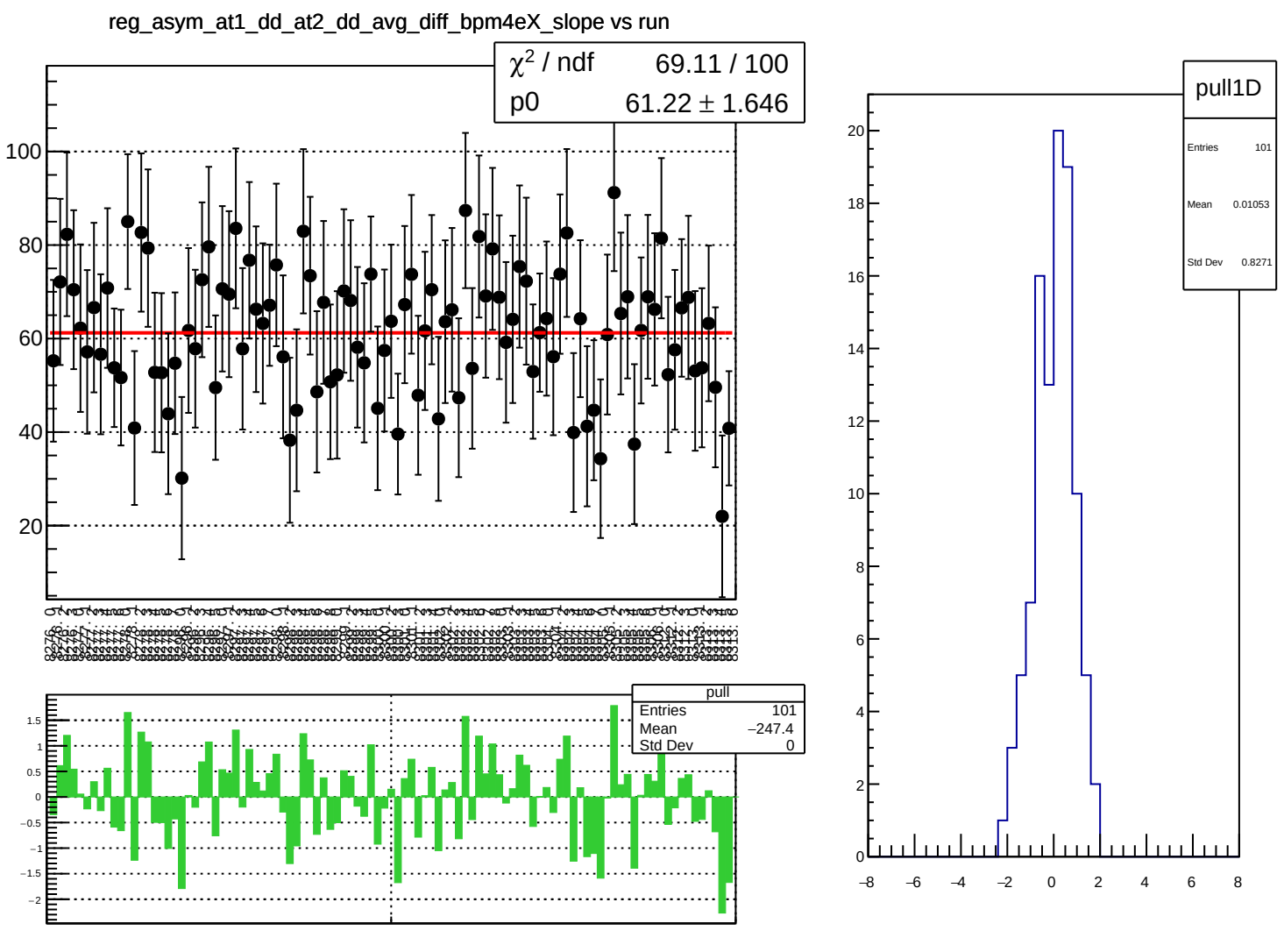

pull1D
Entries 101
Mean −0.005947
Std Dev 0.6523

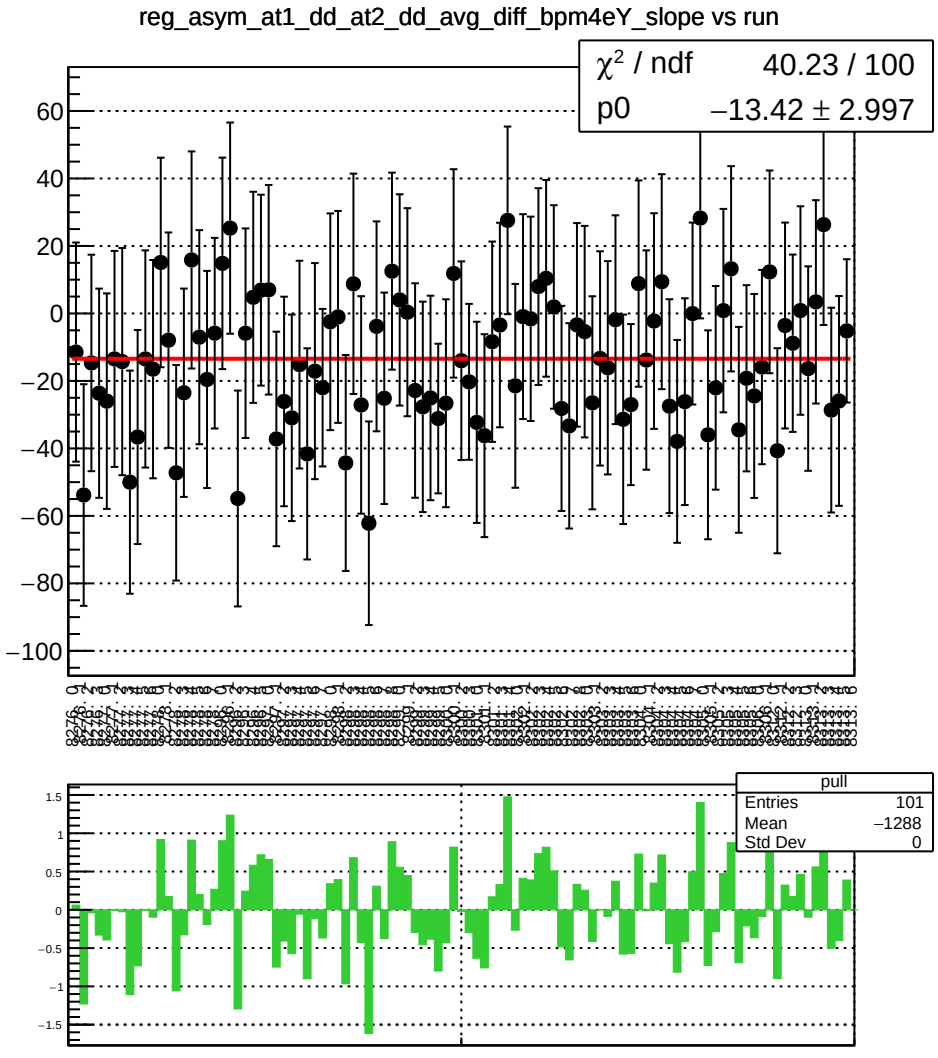

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 47.36 / 100
p0 2.019 ± 3.232
100
50
0
−50
−100
pull
Entries 101
Mean 4612
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 101
Mean −0.0002457
Std Dev 0.6848
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

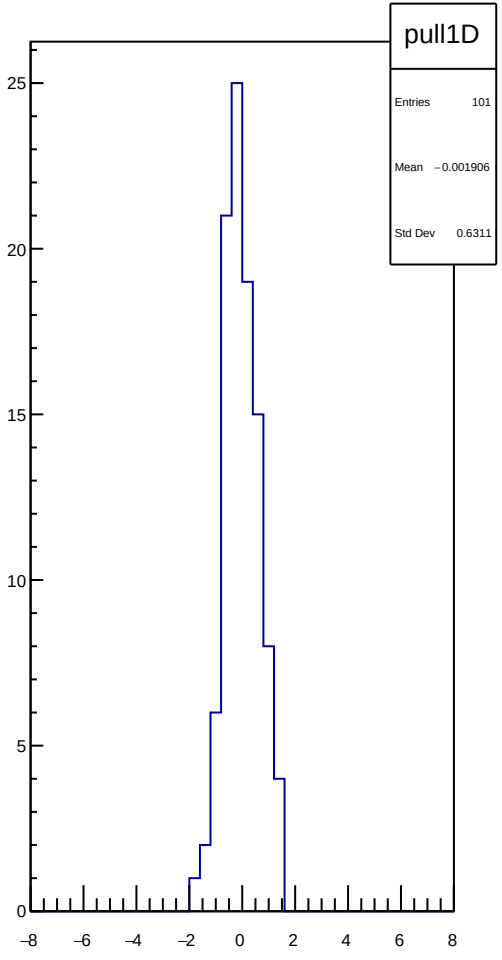

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 106.3 / 100
p0 27.04 ± 0.1716
pull
Entries 101
Mean −200
Std Dev 0
pull1D
Entries 101
Mean 0.07318
Std Dev 1.023

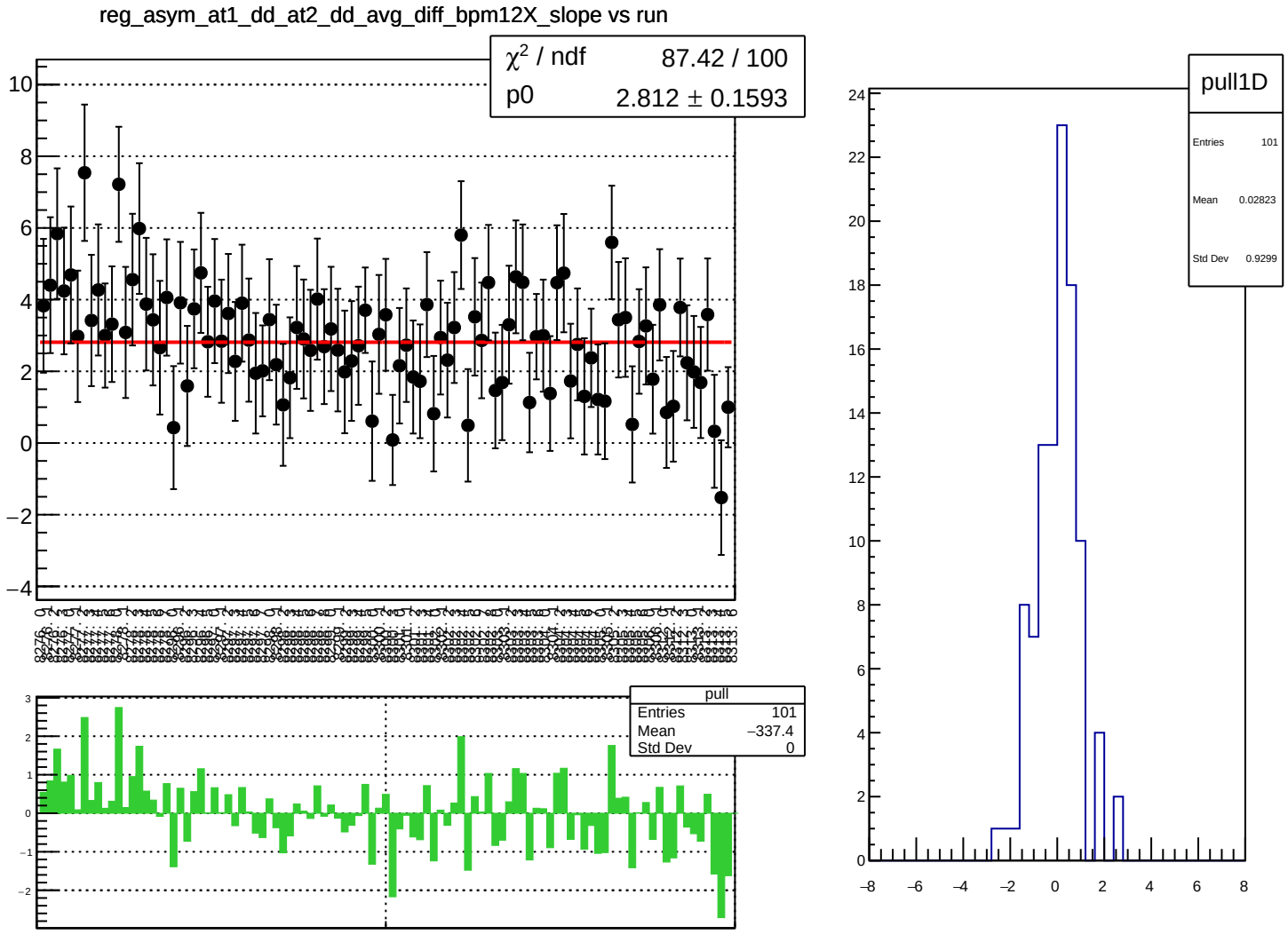

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 67.23 / 100
p0 3.659 ± 1.473
pull
Entries 101
Mean −234.6
Std Dev 0
pull1D
Entries 101
Mean −0.01001
Std Dev 0.8158

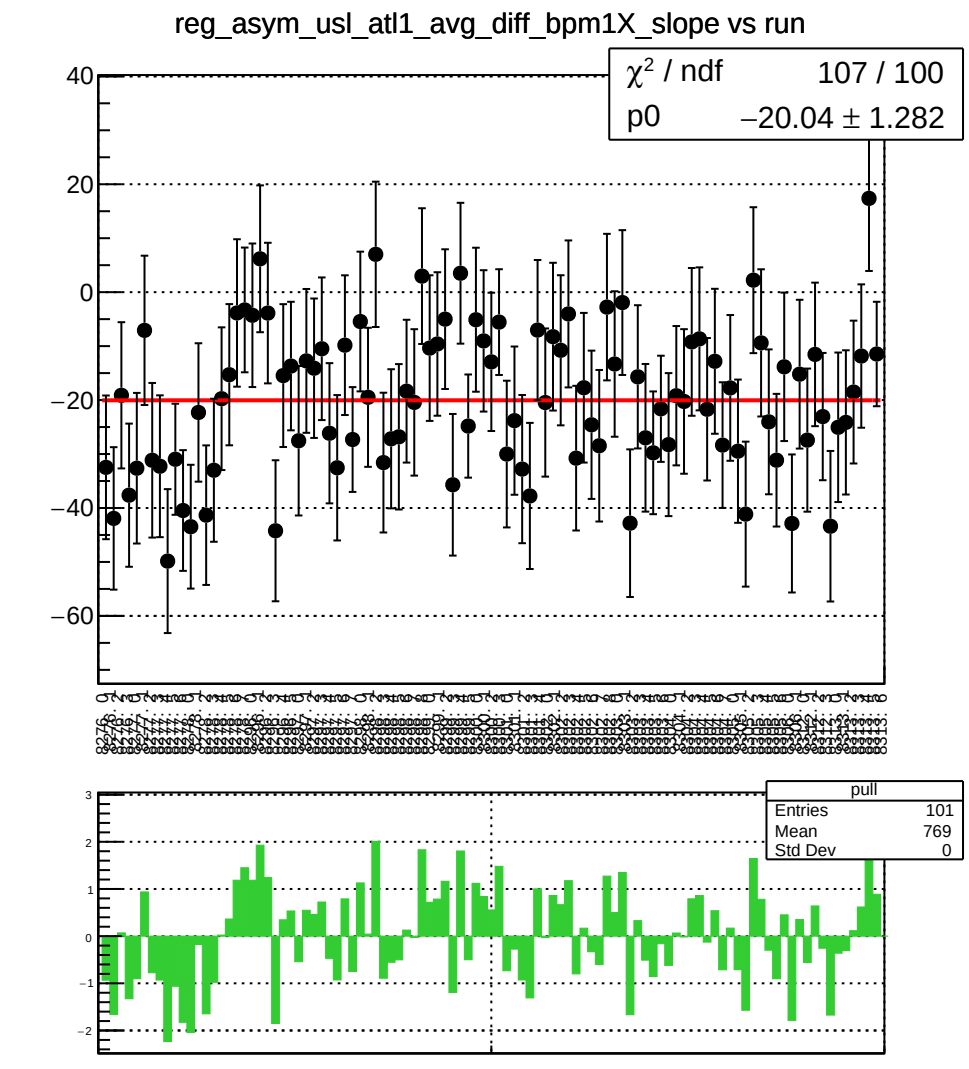

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 41.39 / 100
p0 10.29 ± 2.884
pull
Entries 101
Mean −2109
Std Dev 0
pull1D
Entries 101
Mean 0.001164
Std Dev 0.6402

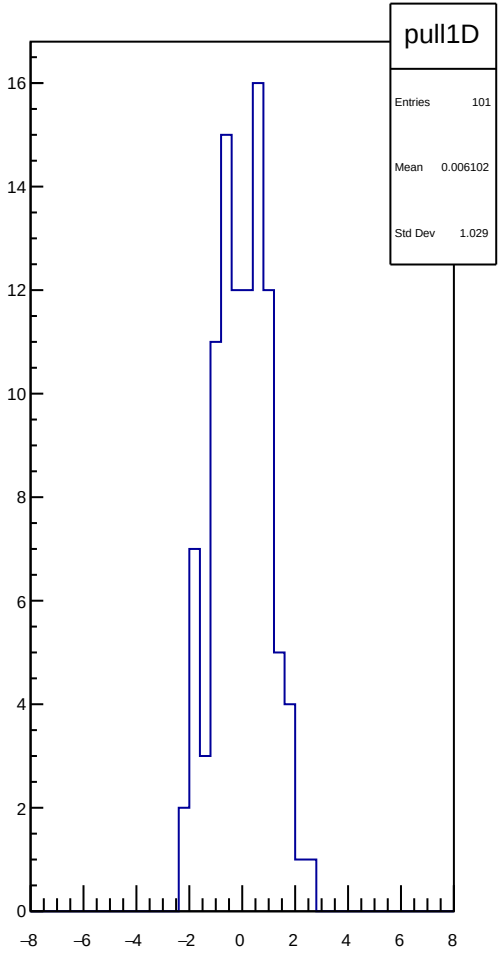

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 69.11 / 100
p0 61.22 ± 1.646
pull
Entries 101
Mean −247.4
Std Dev 0
pull1D
Entries 101
Mean 0.01053
Std Dev 0.8271

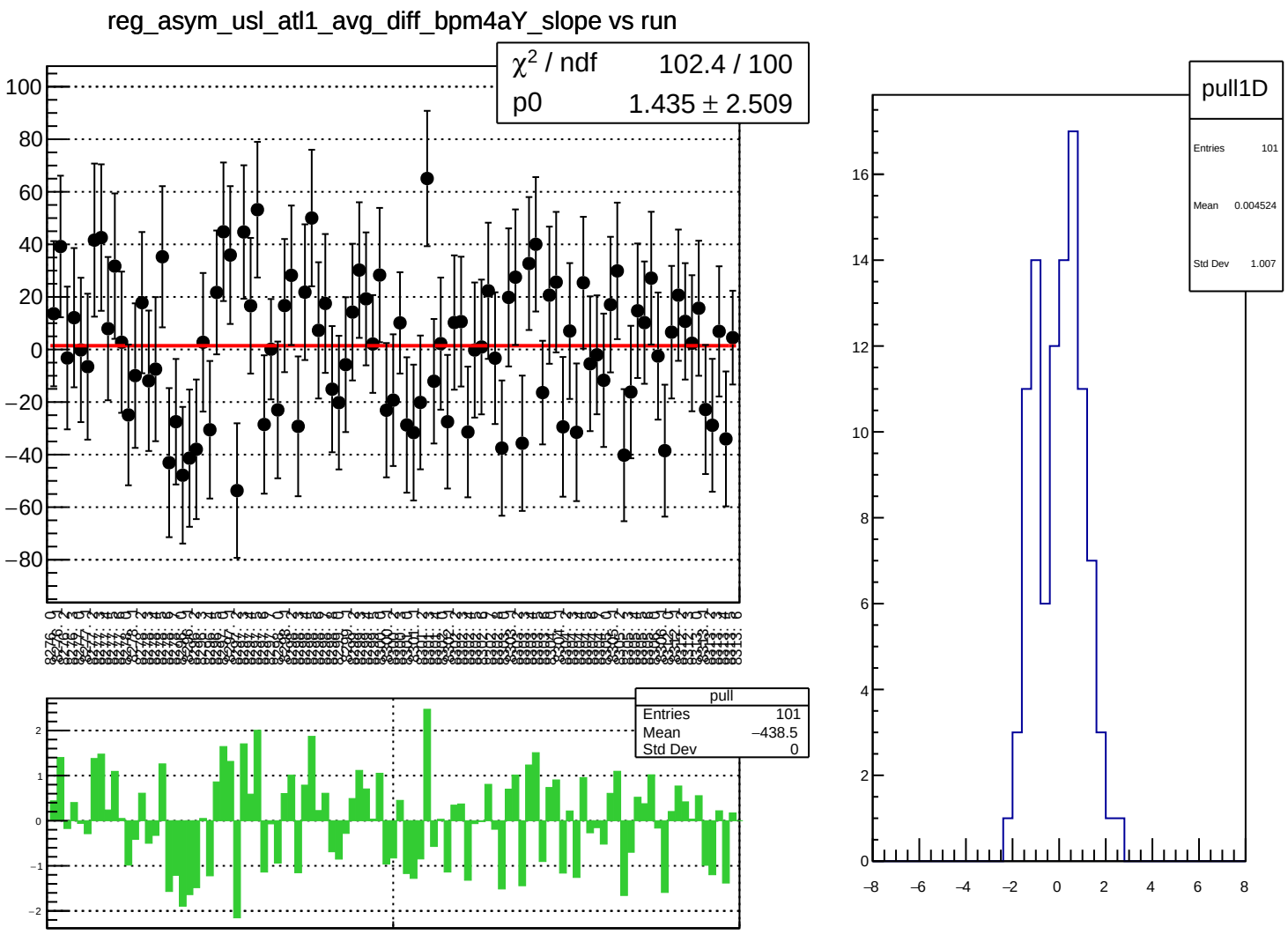

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 40.23 / 100
p0 −13.42 ± 2.997
pull
Entries 101
Mean −1288
Std Dev 0

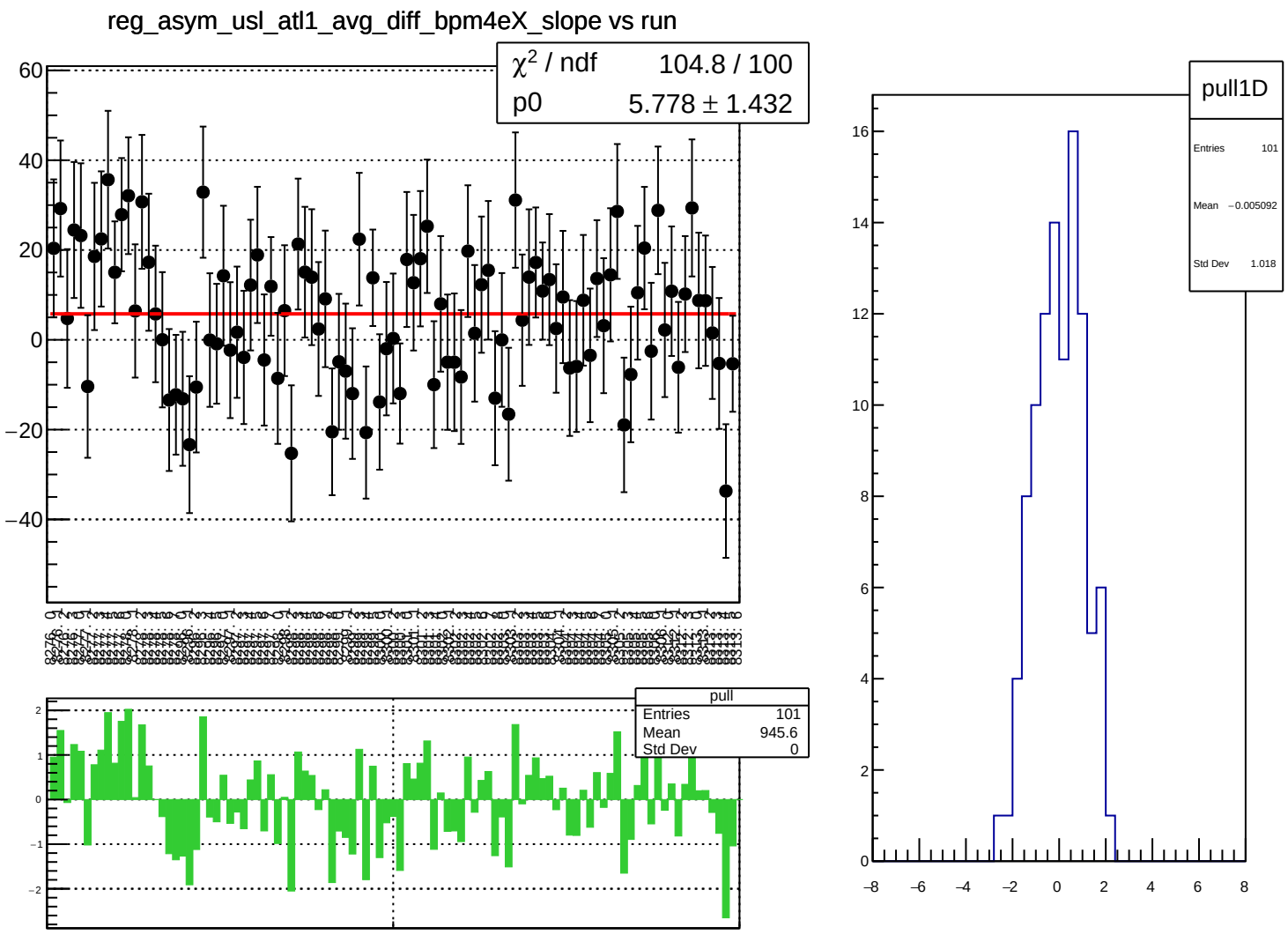

pull1D
Entries 101
Mean −0.001906
Std Dev 0.6311

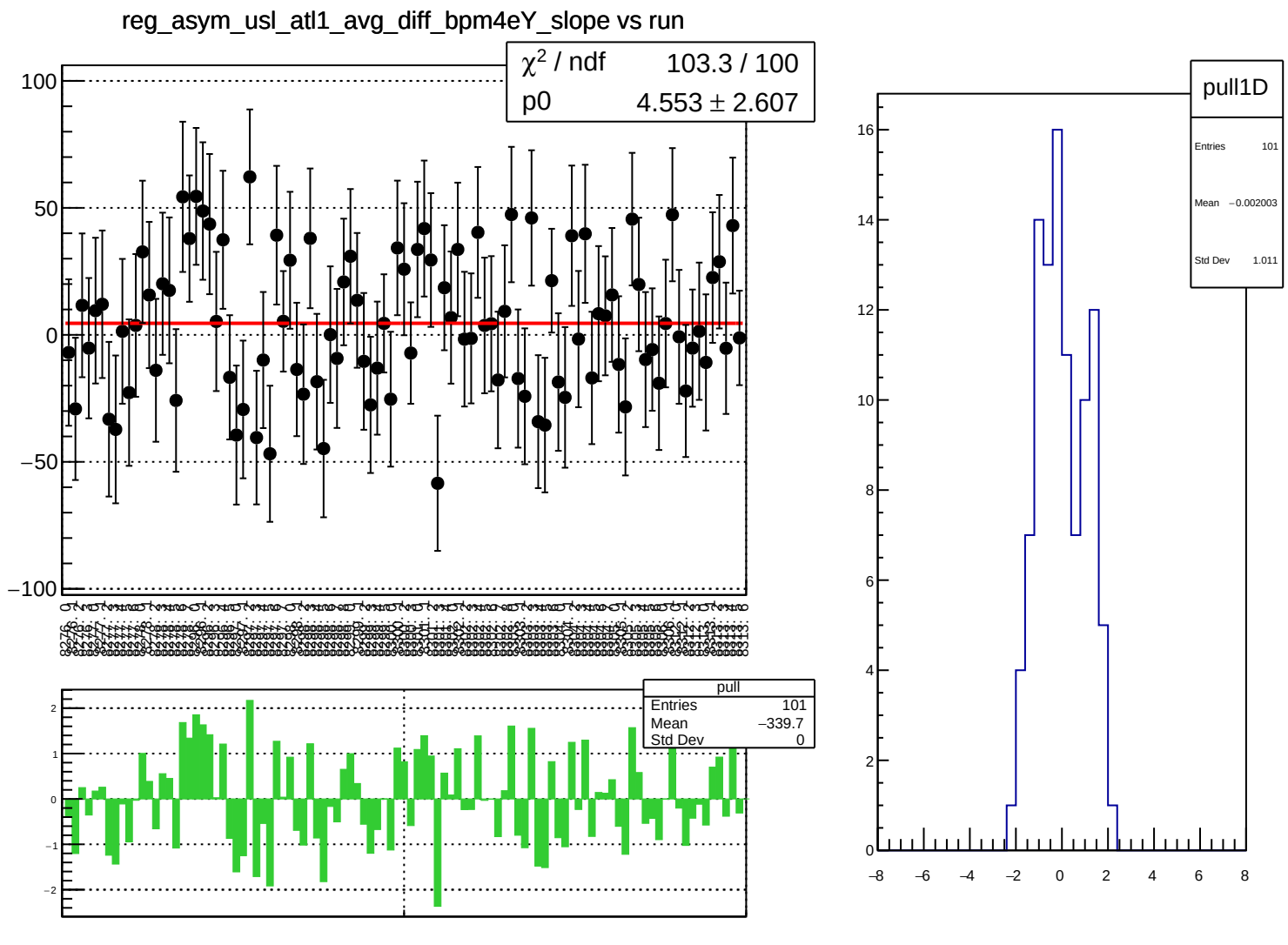

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 87.42 / 100
p0 2.812 ± 0.1593
pull
Entries 101
Mean −337.4
Std Dev 0
pull1D
Entries 101
Mean 0.02823
Std Dev 0.9299

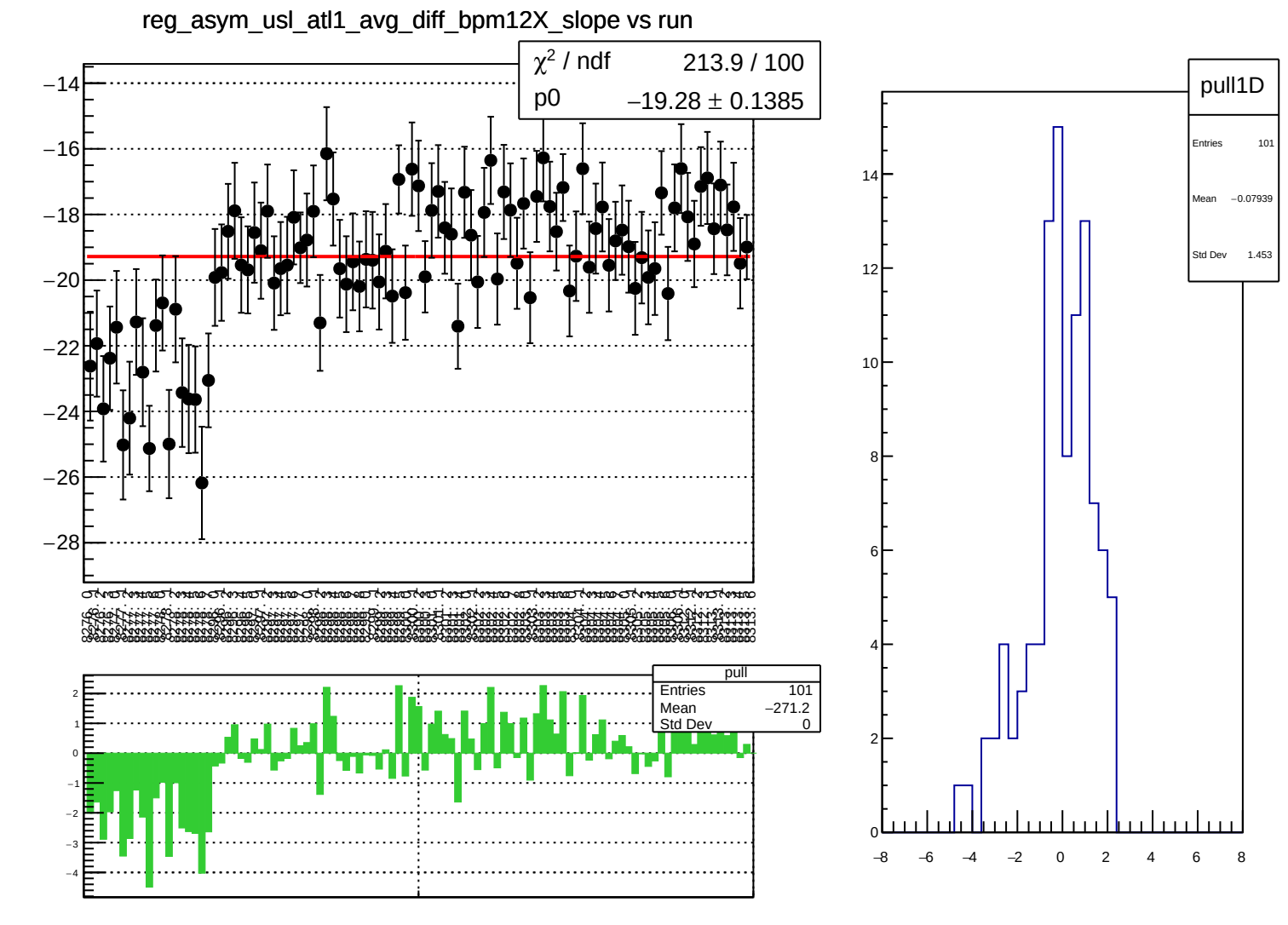

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 107 / 100
p0 −20.04 ± 1.282
pull
Entries 101
Mean 769
Std Dev 0

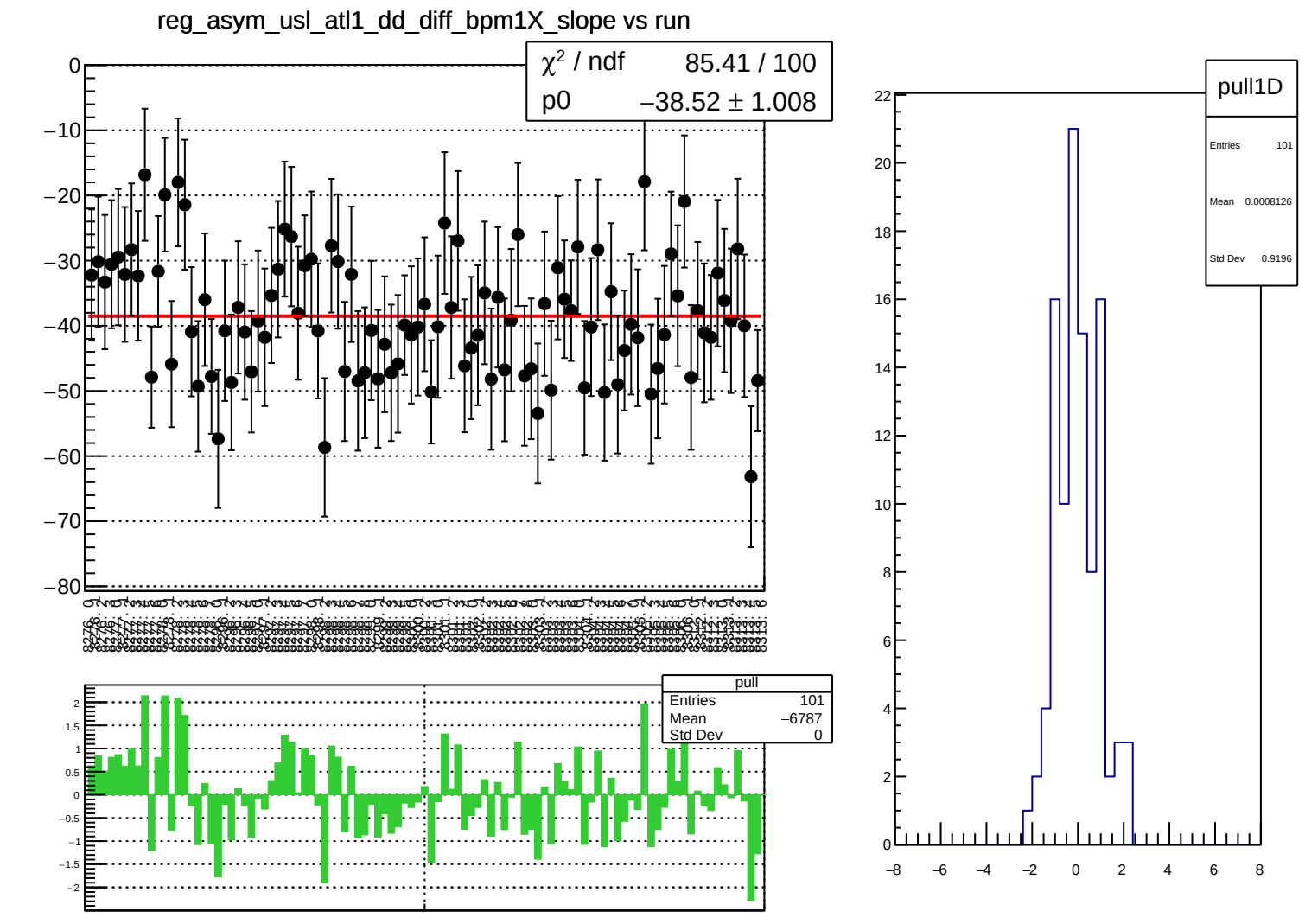

pull1D
Entries 101
Mean 0.006102
Std Dev 1.029

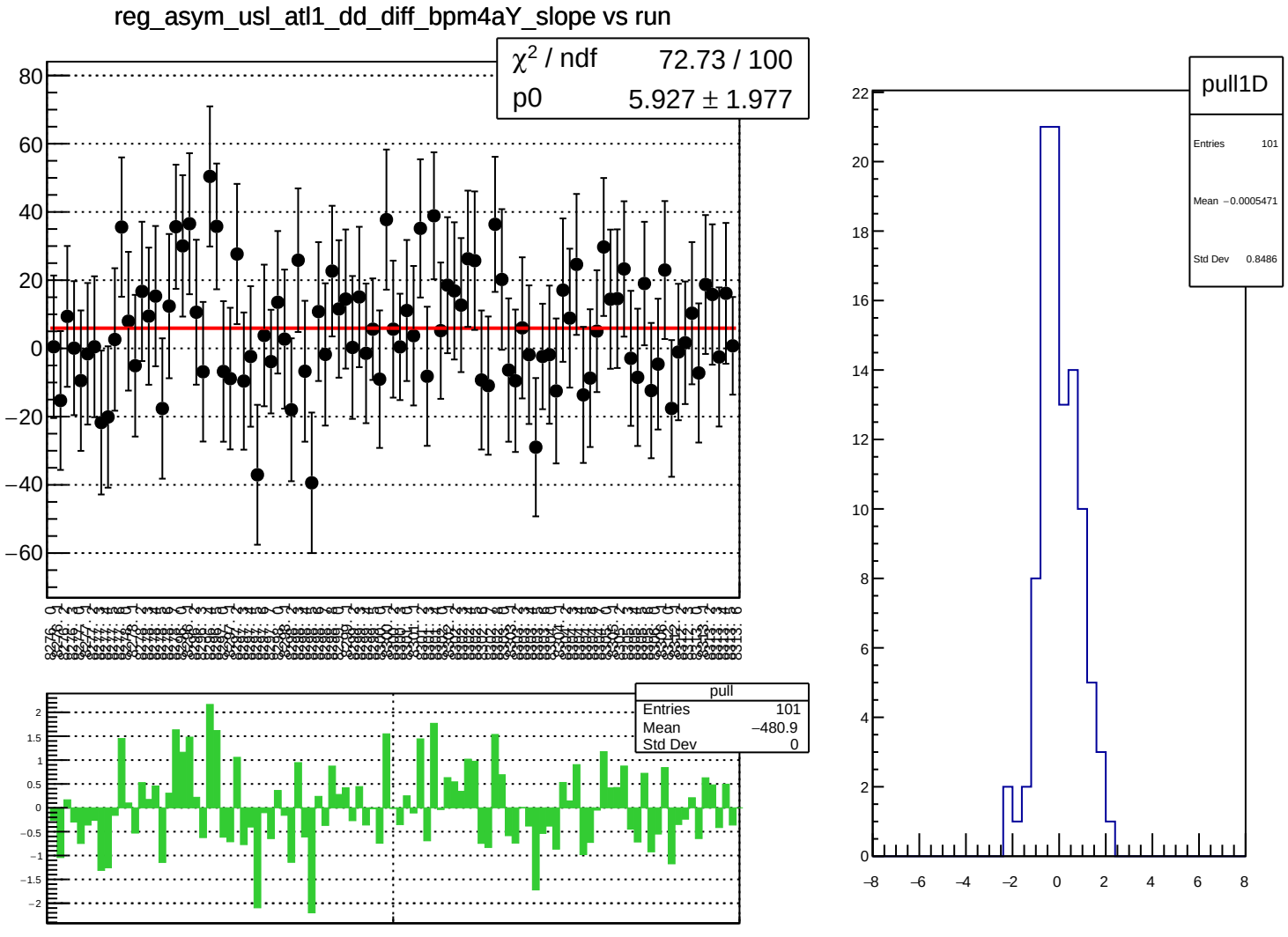

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 102.4 / 100
p0 1.435 ± 2.509
pull
Entries 101
Mean −438.5
Std Dev 0
pull1D
Entries 101
Mean 0.004524
Std Dev 1.007

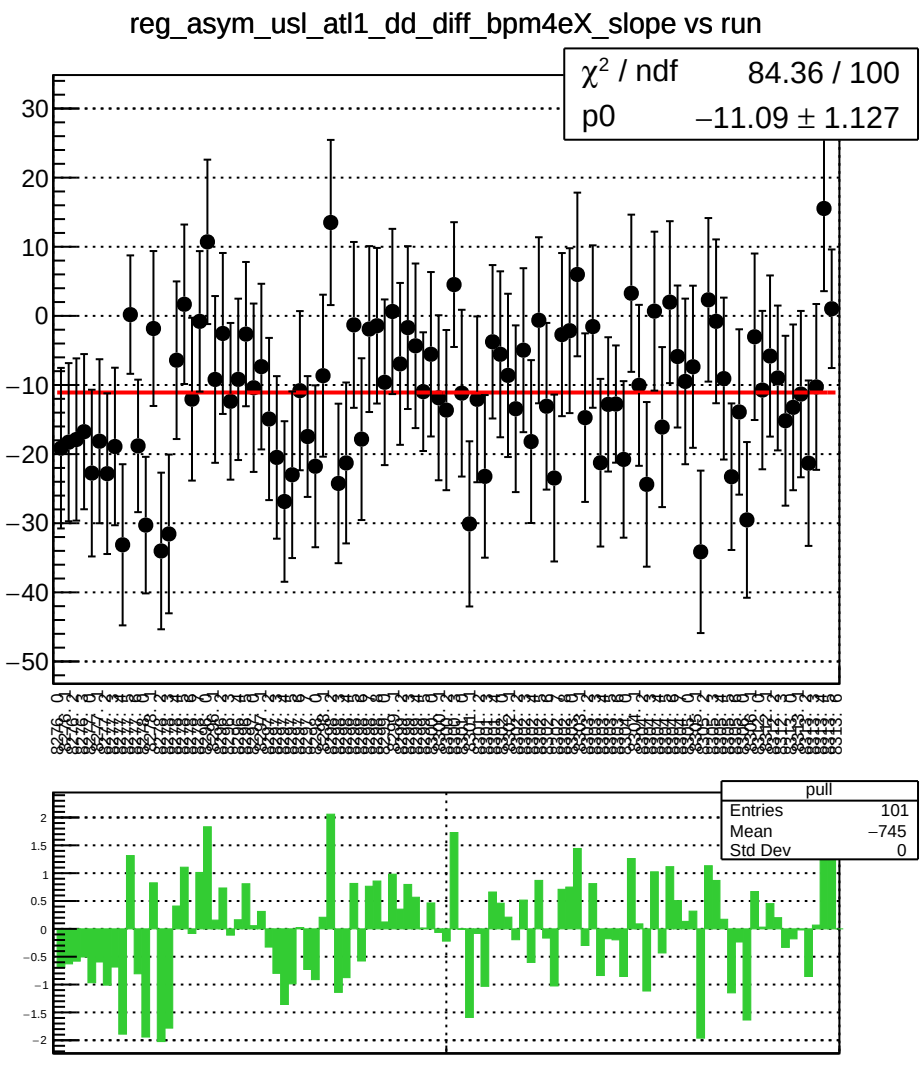

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 104.8 / 100
p0 5.778 ± 1.432
pull
Entries 101
Mean 945.6
Std Dev 0
pull1D
Entries 101
Mean −0.005092
Std Dev 1.018

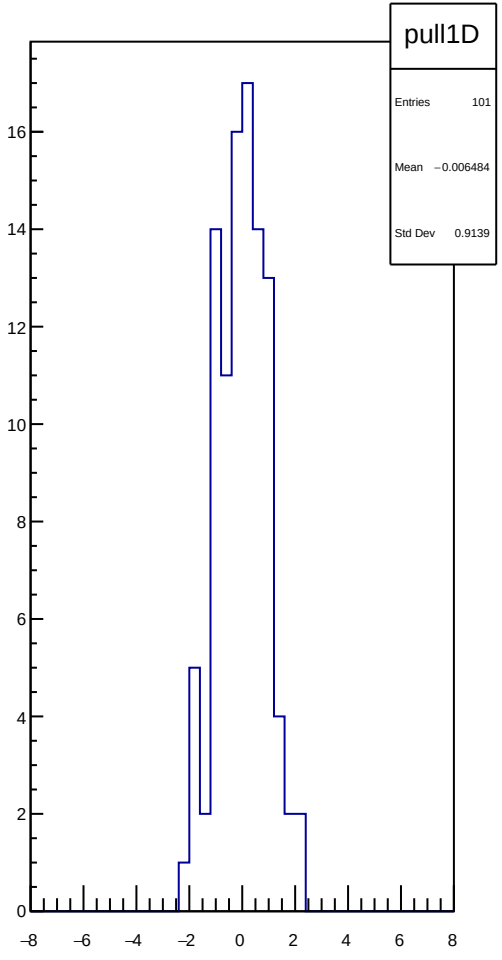

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 103.3 / 100
p0 4.553 ± 2.607
100
50
0
−50
−100
pull
Entries 101
Mean −339.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 101
Mean −0.002003
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

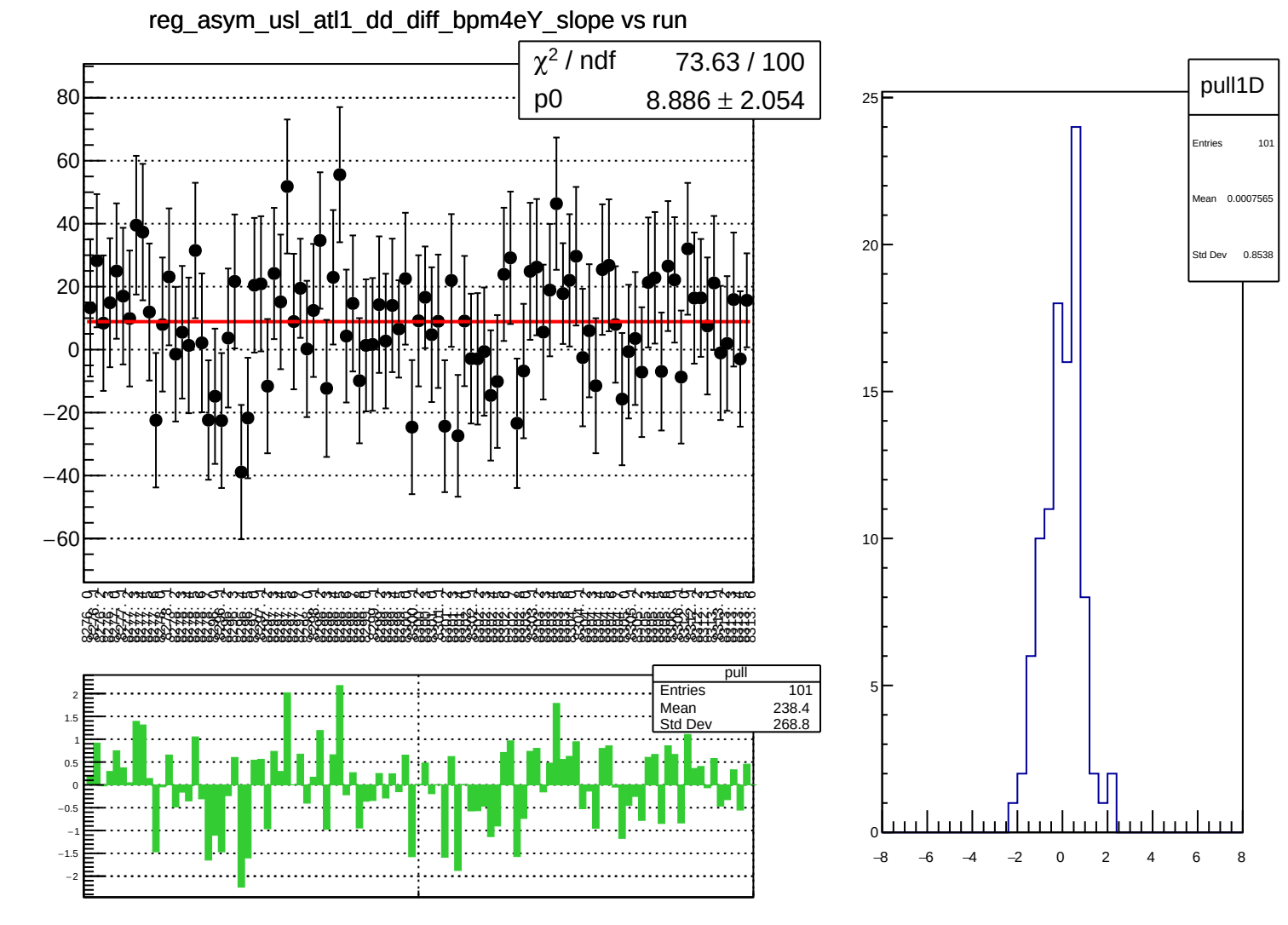

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 213.9 / 100
p0 −19.28 ± 0.1385
pull
Entries 101
Mean −271.2
Std Dev 0
pull1D
Entries 101
Mean −0.07939
Std Dev 1.453

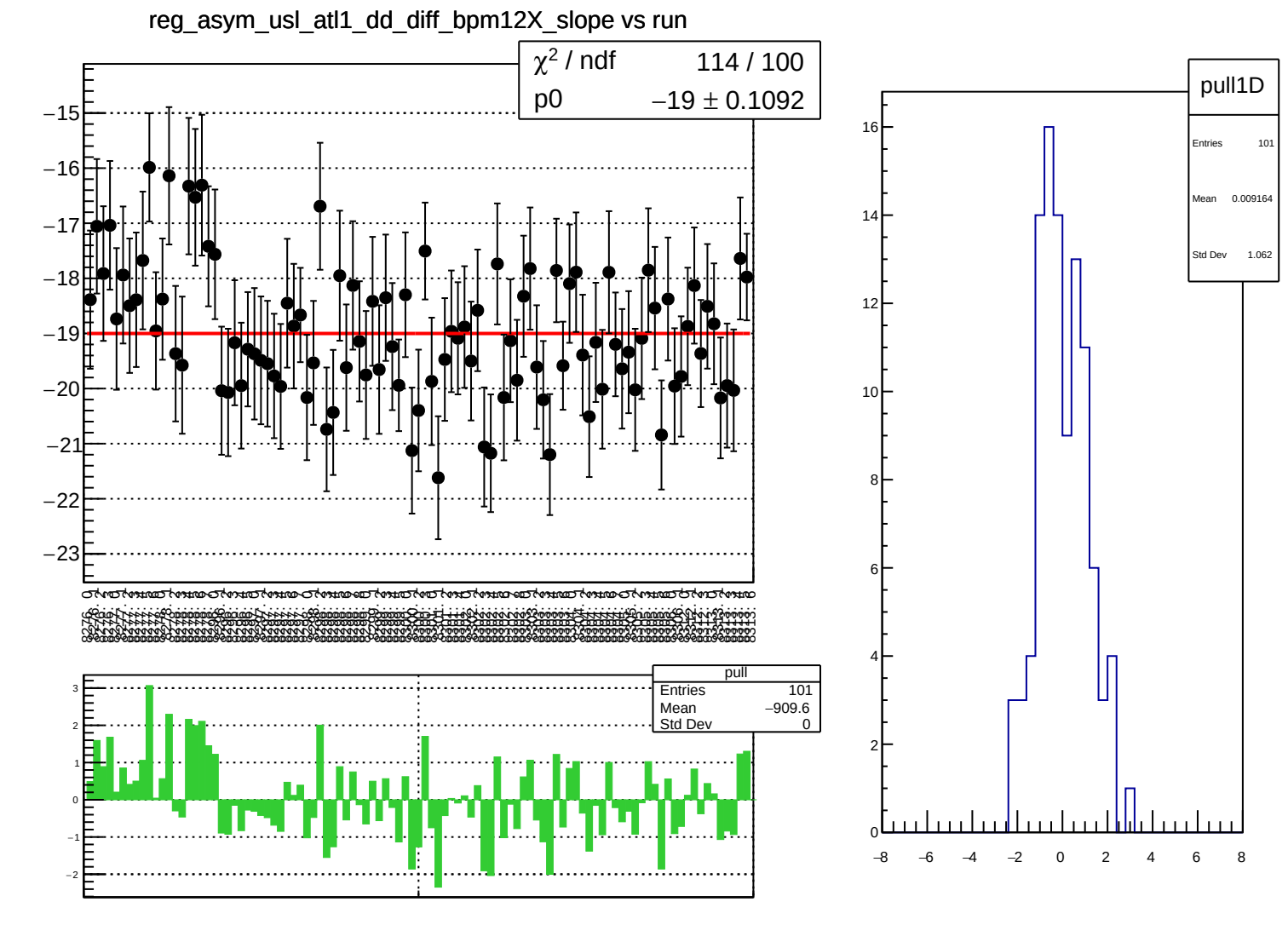

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 85.41 / 100
p0 −38.52 ± 1.008
pull
Entries 101
Mean −6787
Std Dev 0
pull1D
Entries 101
Mean 0.0008126
Std Dev 0.9196

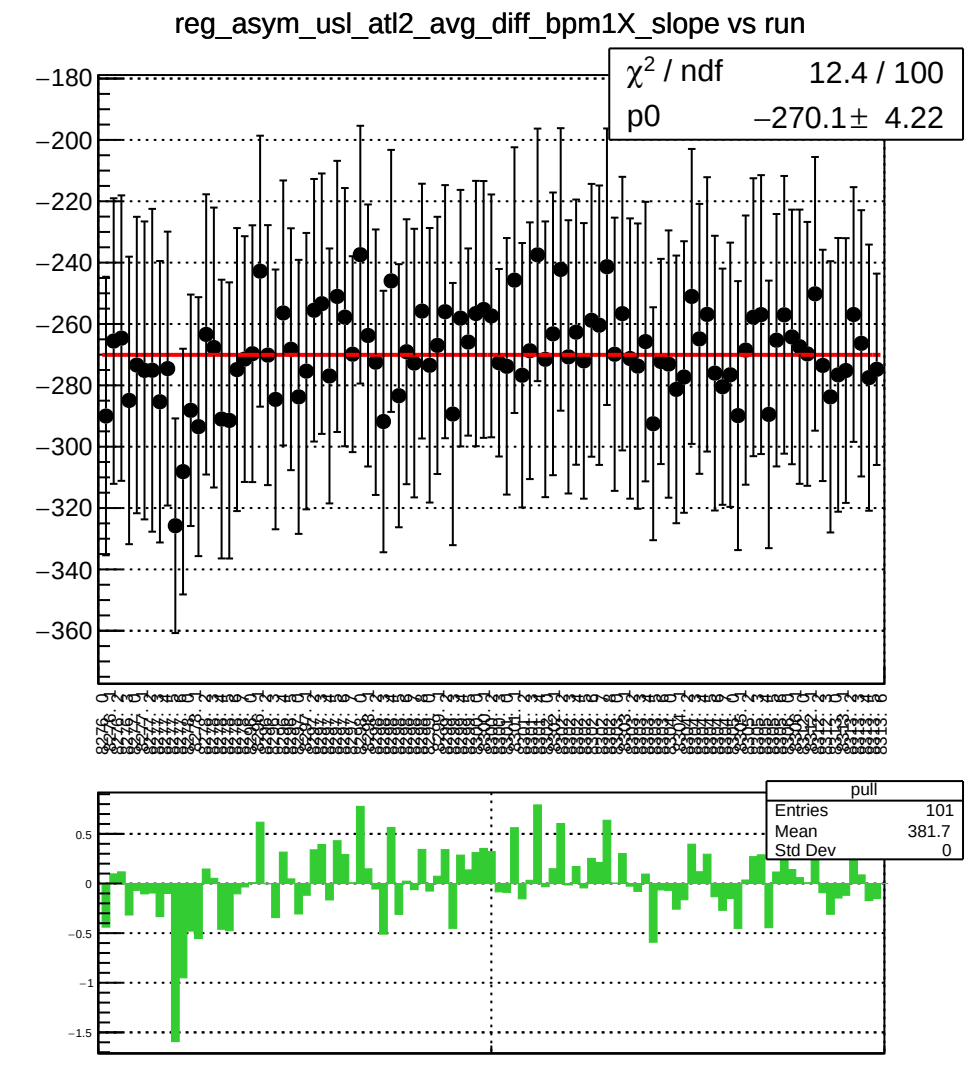

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 72.73 / 100
p0 5.927 ± 1.977
pull
Entries 101
Mean −480.9
Std Dev 0
pull1D
Entries 101
Mean −0.0005471
Std Dev 0.8486

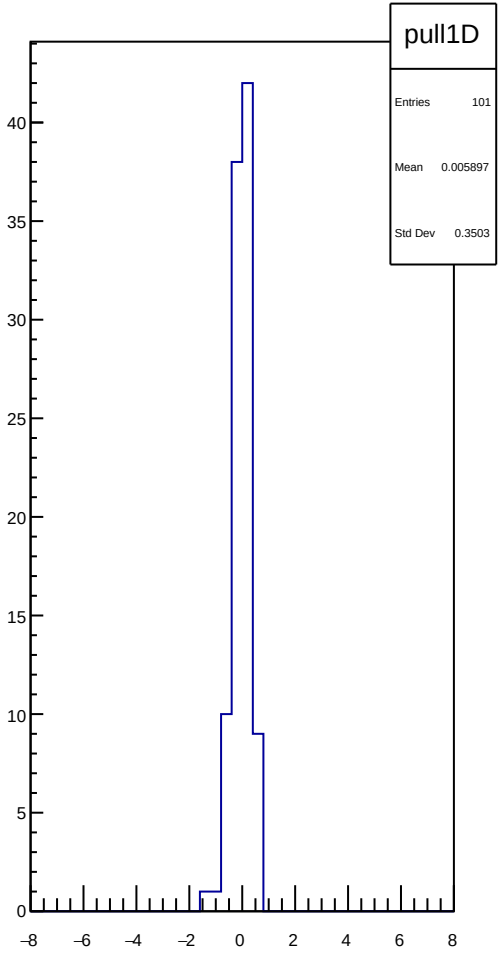

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 84.36 / 100
p0 −11.09 ± 1.127
pull
Entries 101
Mean −745
Std Dev 0

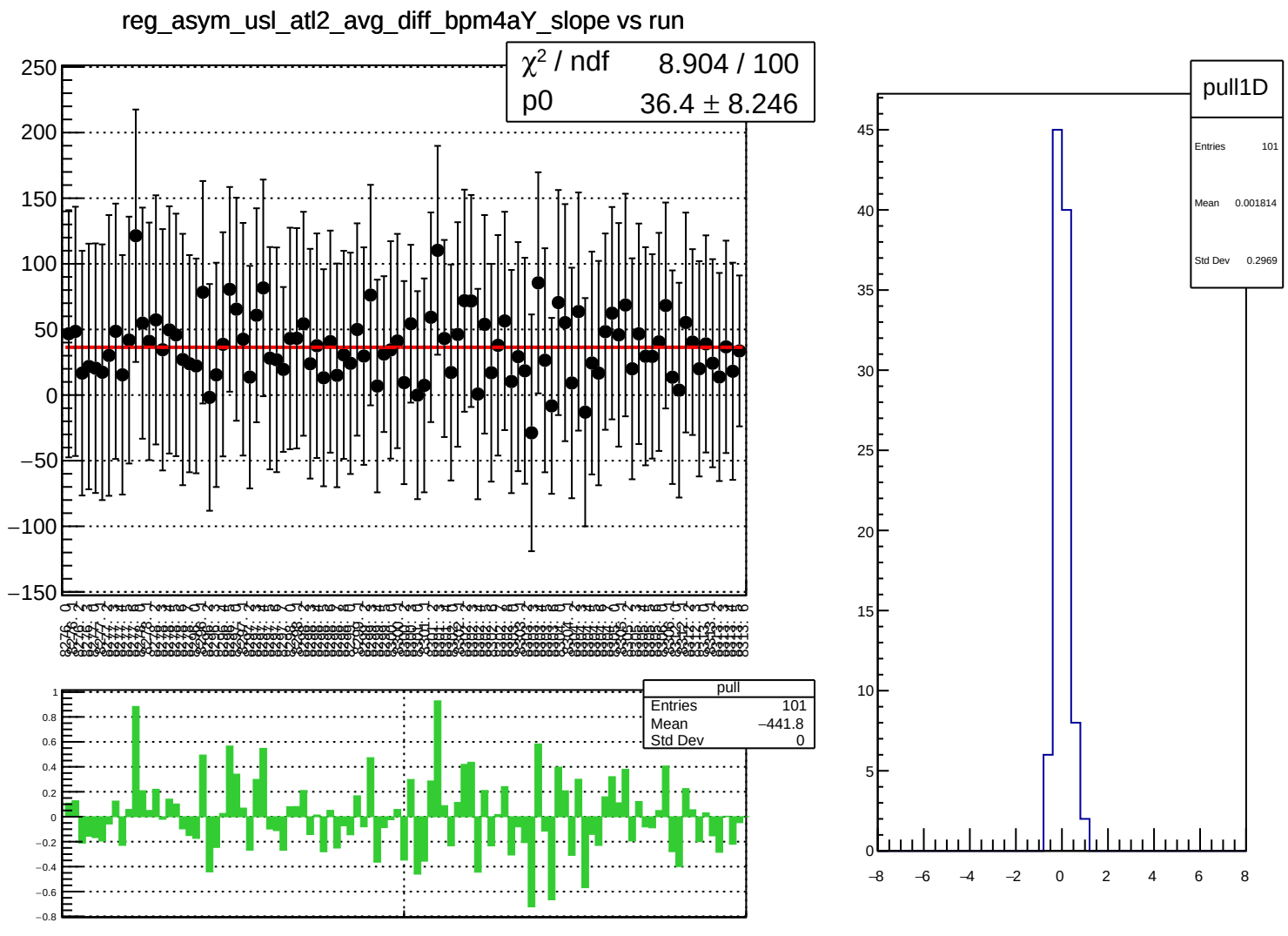

pull1D
Entries 101
Mean −0.006484
Std Dev 0.9139

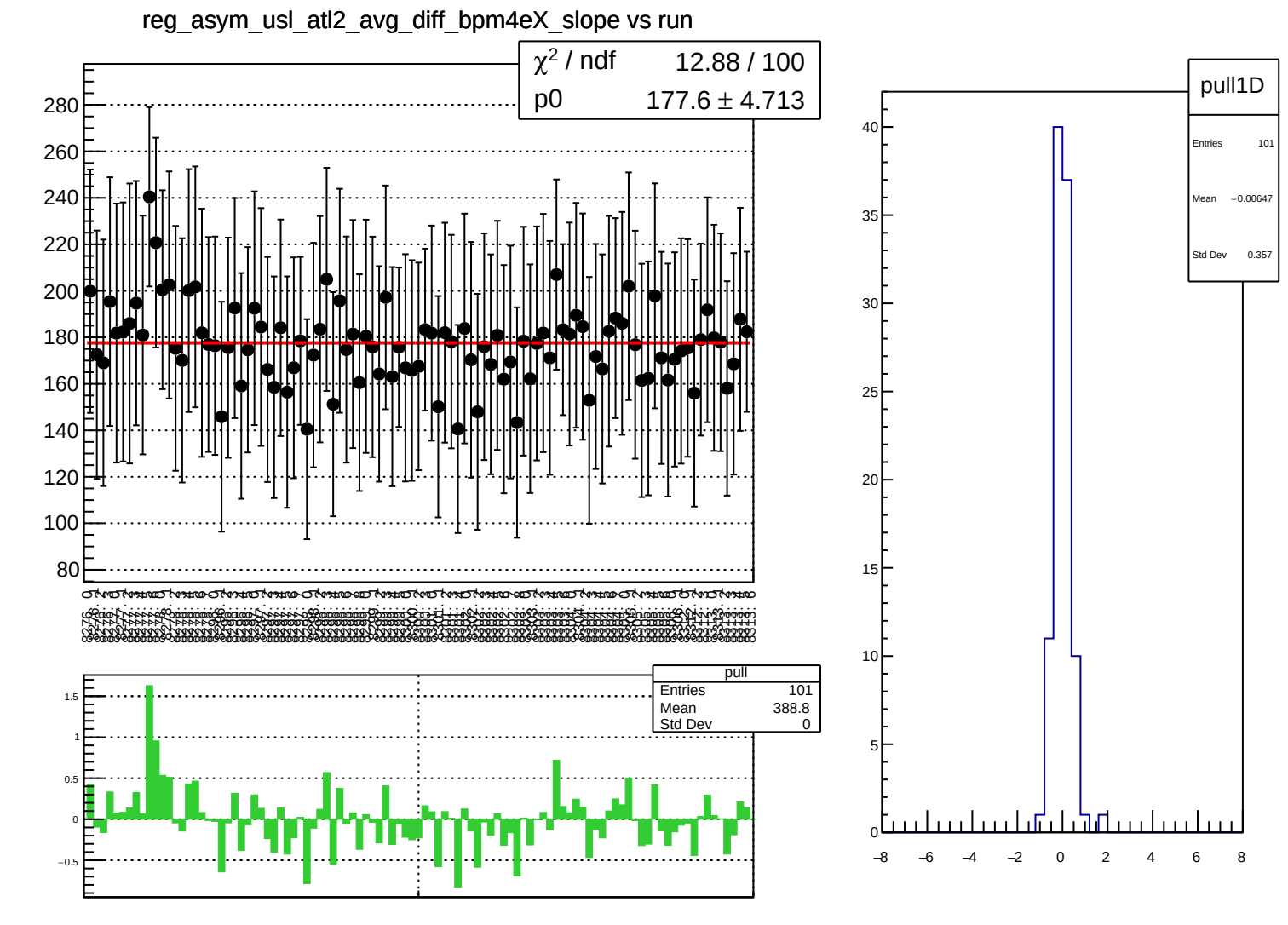

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 73.63 / 100
p0 8.886 ± 2.054
pull
Entries 101
Mean 238.4
Std Dev 268.8
pull1D
Entries 101
Mean 0.0007565
Std Dev 0.8538

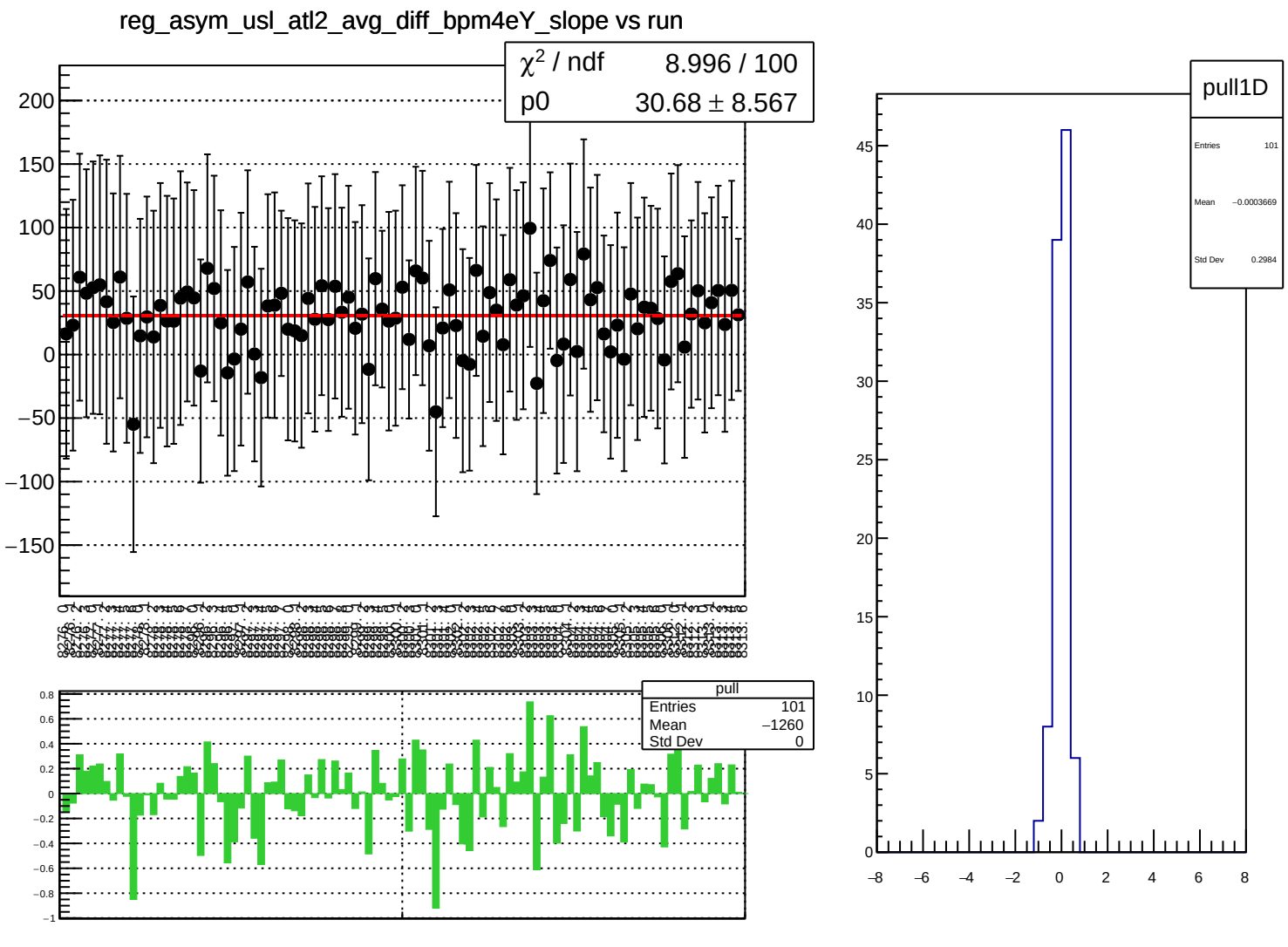

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 114 / 100
p0 −19 ± 0.1092
pull
Entries 101
Mean −909.6
Std Dev 0
pull1D
Entries 101
Mean 0.009164
Std Dev 1.062

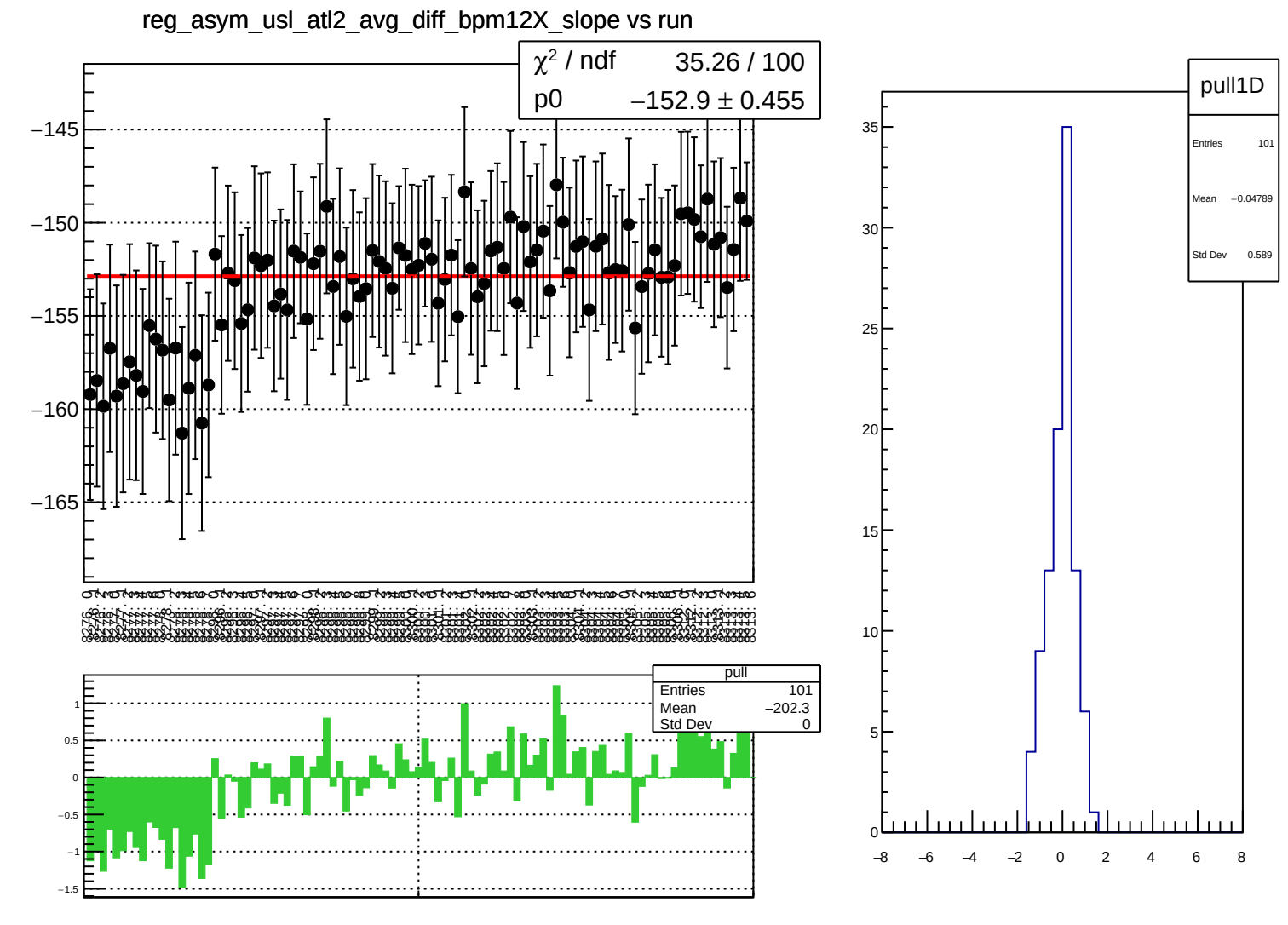

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 12.4 / 100
p0 −270.1± 4.22
pull
Entries 101
Mean 381.7
Std Dev 0

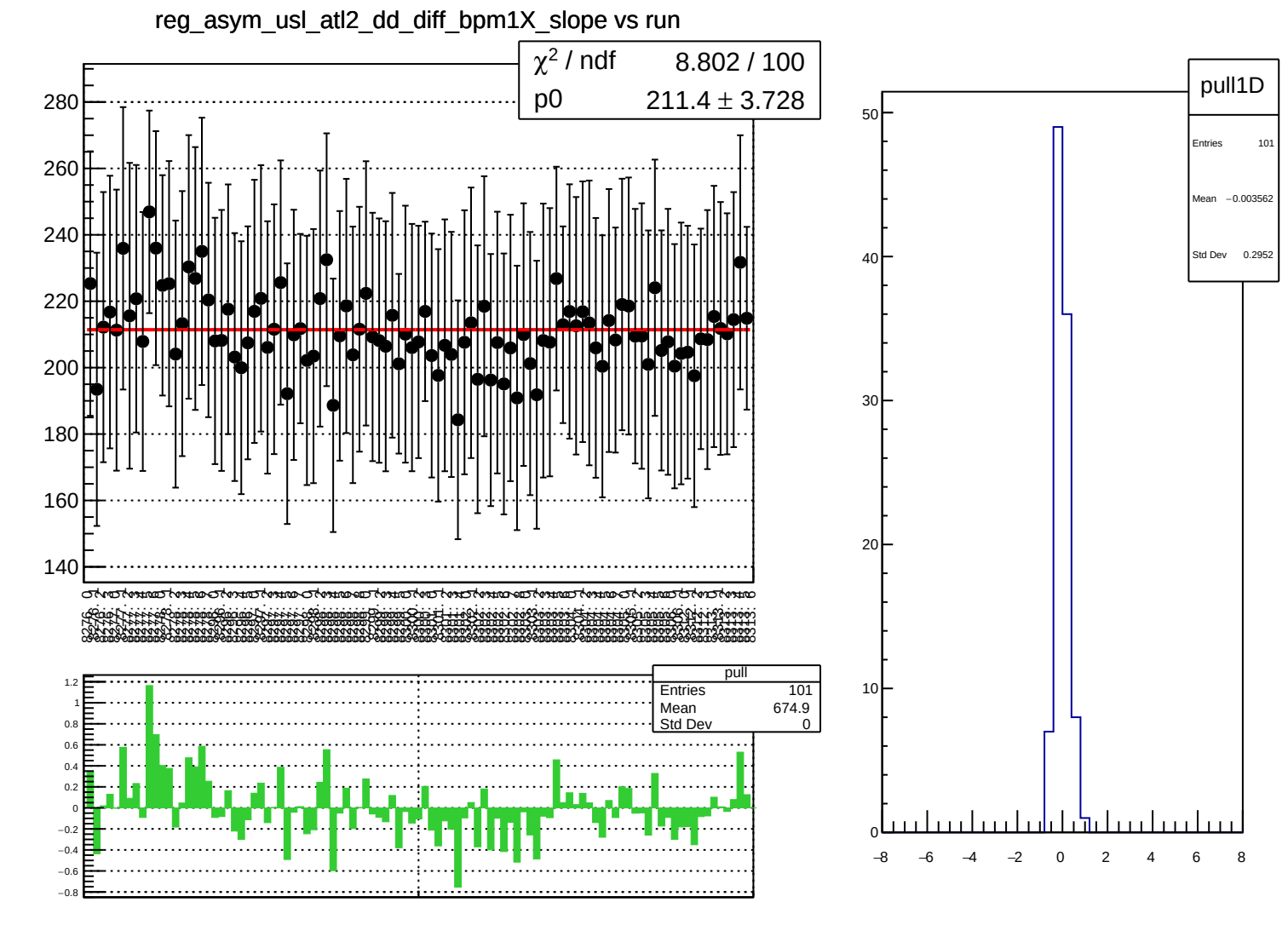

pull1D
Entries 101
Mean 0.005897
Std Dev 0.3503

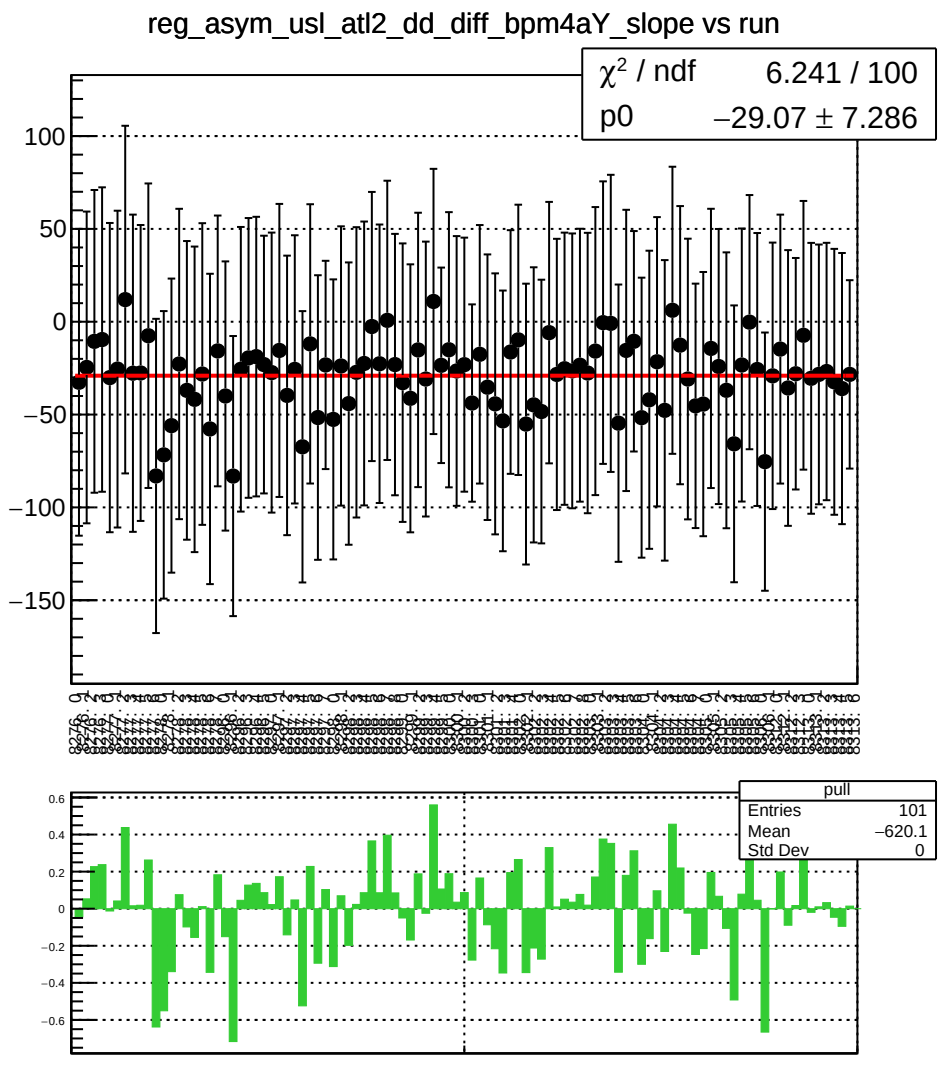

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.904 / 100
p0 36.4 ± 8.246
pull
Entries 101
Mean −441.8
Std Dev 0
pull1D
Entries 101
Mean 0.001814
Std Dev 0.2969

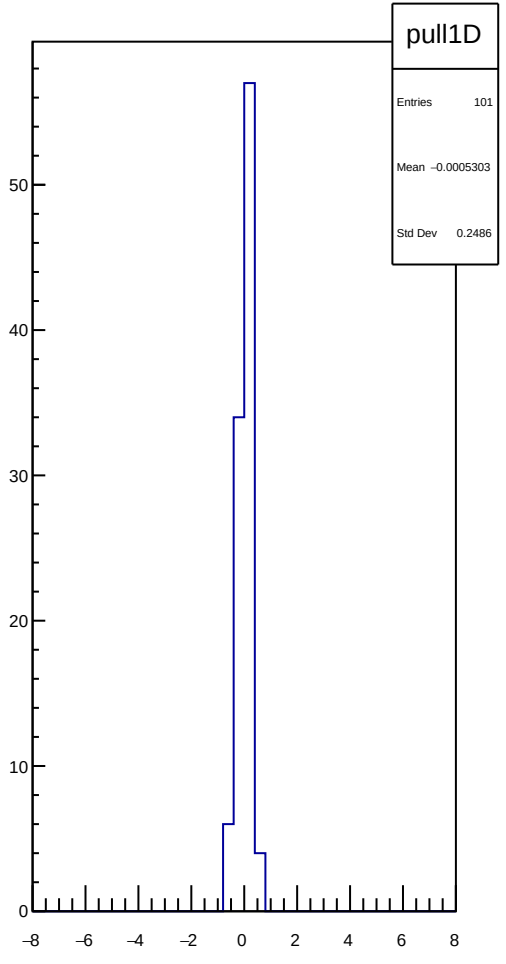

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.88 / 100
p0 177.6 ± 4.713
280
260
240
220
200
180
160
140
120
100
80
pull
Entries 101
Mean 388.8
Std Dev 0
1.5
1
0.5
0
−0.5
pull1D
Entries 101
Mean −0.00647
Std Dev 0.357
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

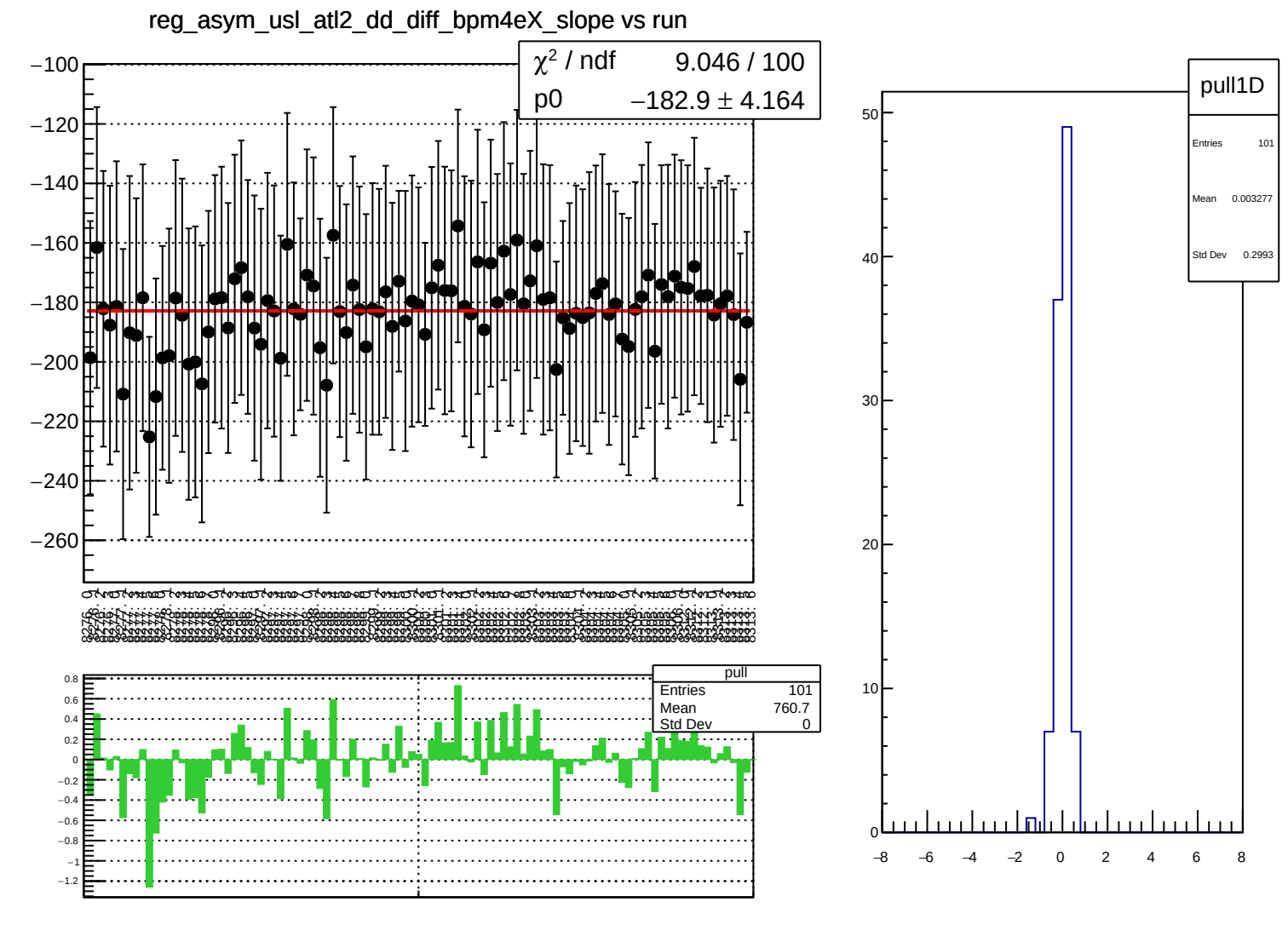

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.996 / 100
p0 30.68 ± 8.567
pull
Entries 101
Mean −1260
Std Dev 0
pull1D
Entries 101
Mean −0.0003669
Std Dev 0.2984

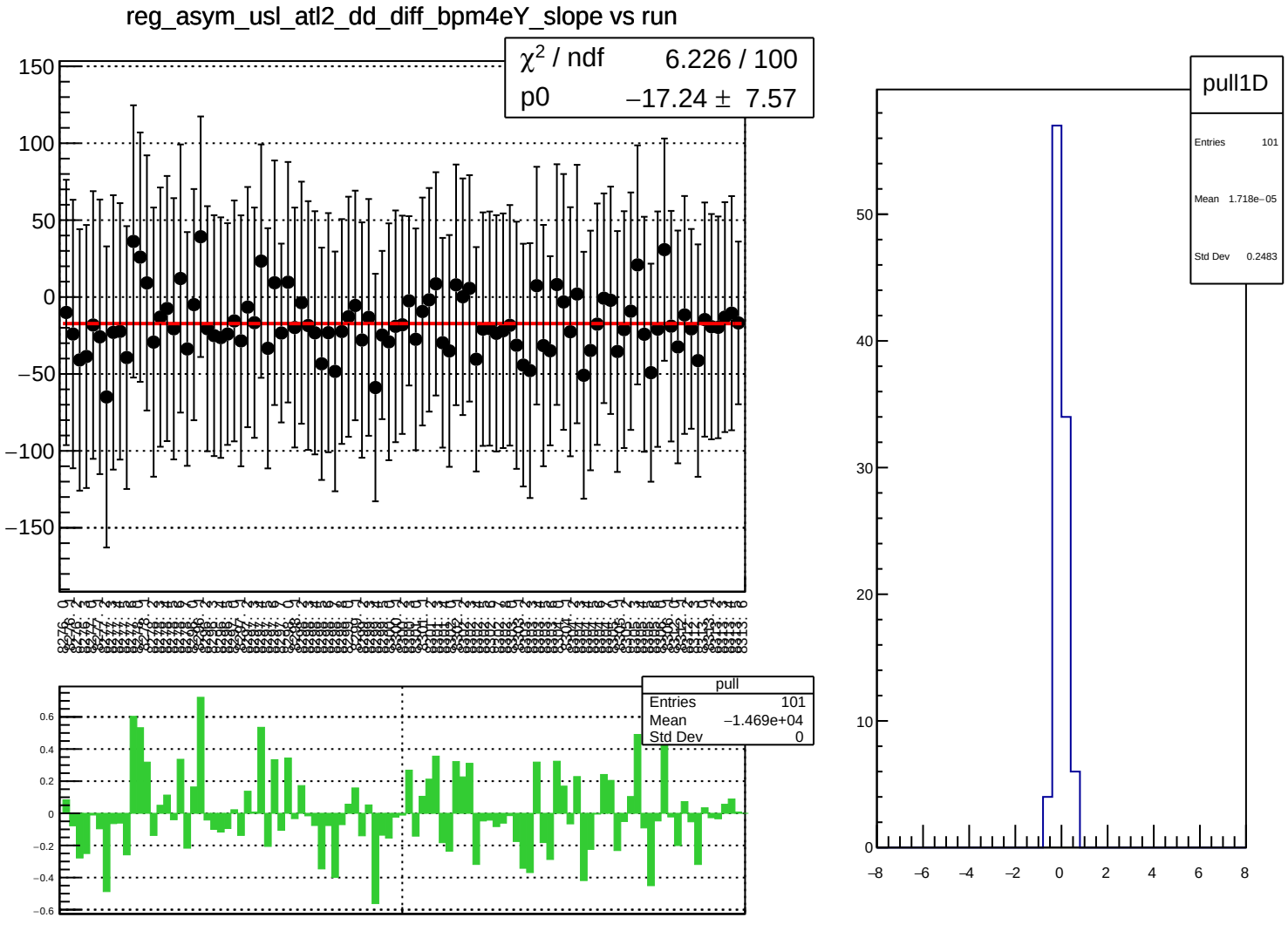

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 35.26 / 100
p0 −152.9 ± 0.455
−145
−150
−155
−160
−165
pull
Entries 101
Mean −202.3
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 101
Mean −0.04789
Std Dev 0.589
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

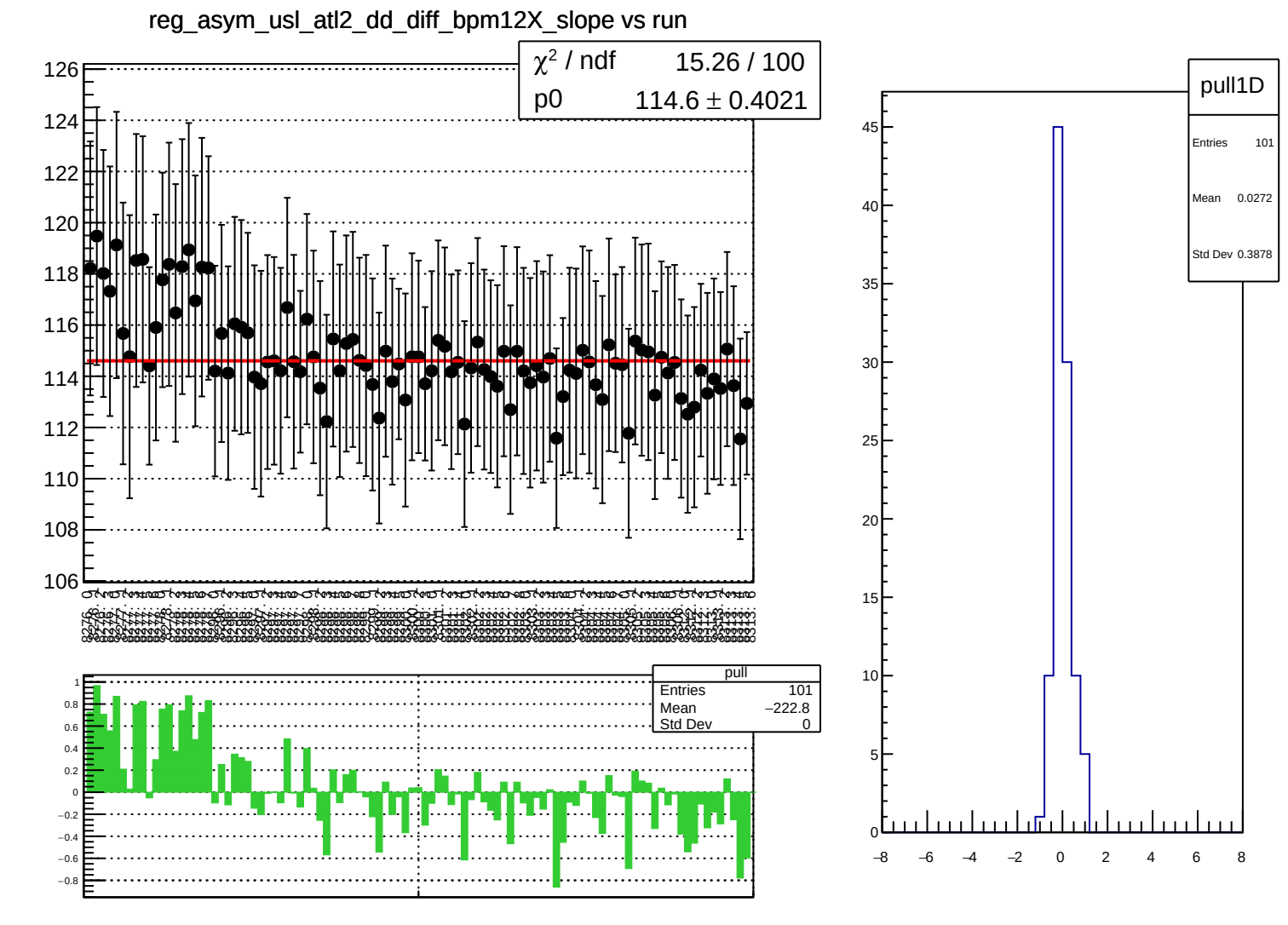

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 8.802 / 100
p0 211.4 ± 3.728
pull
Entries 101
Mean 674.9
Std Dev 0
pull1D
Entries 101
Mean −0.003562
Std Dev 0.2952

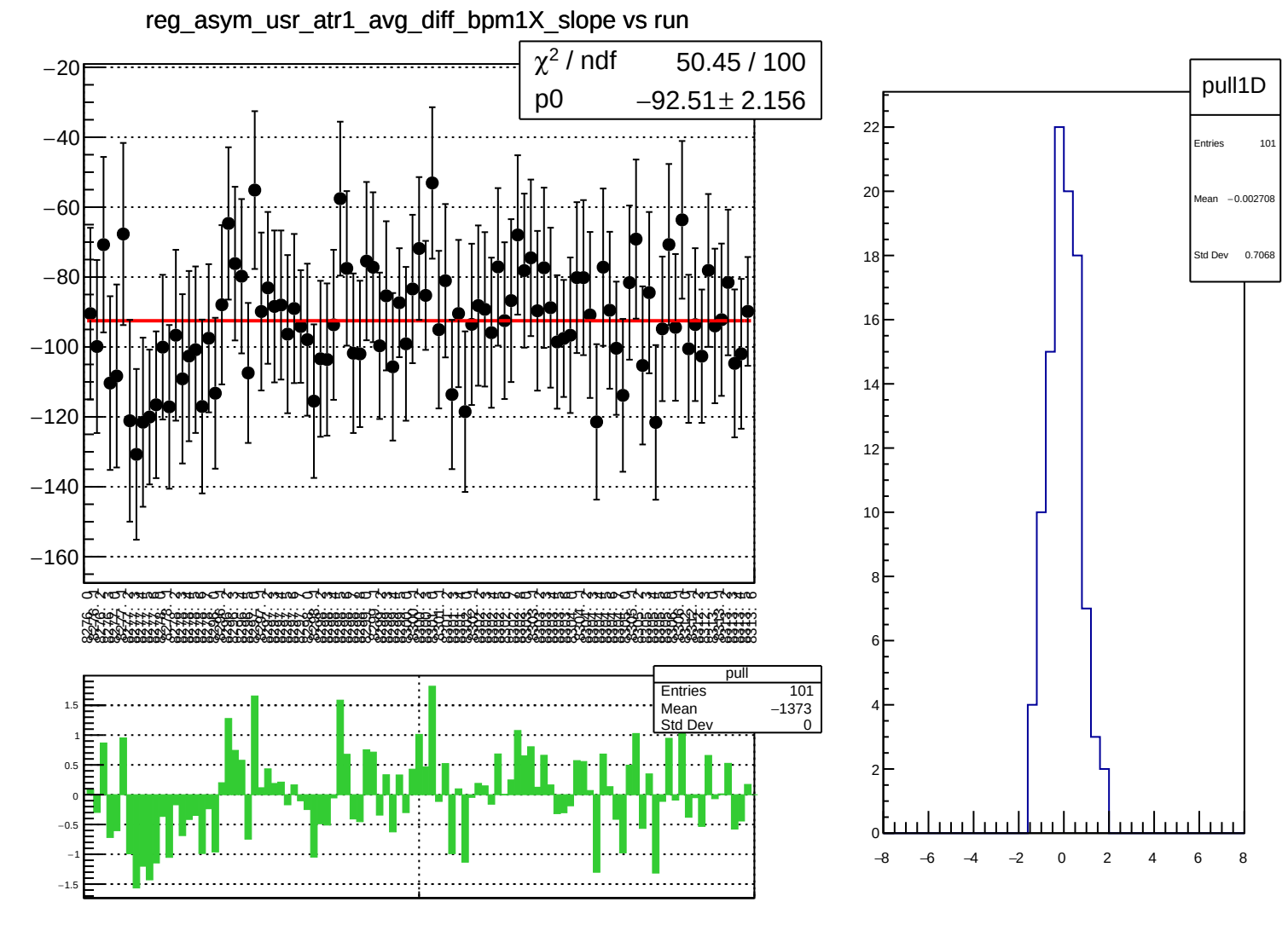

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.241 / 100
p0 −29.07 ± 7.286
100
50
0
−50
−100
−150
pull
Entries 101
Mean −620.1
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

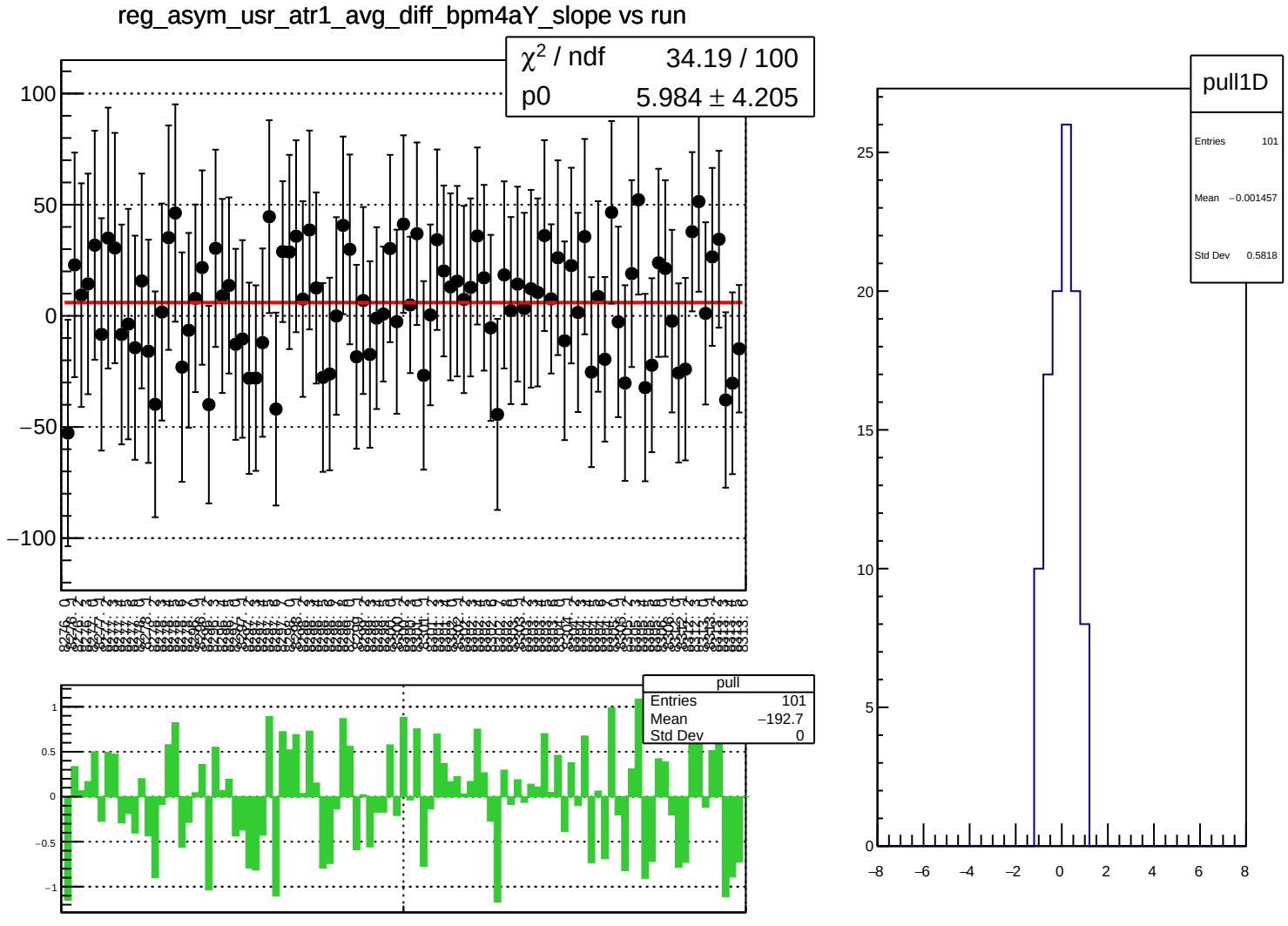

pull1D
Entries 101
Mean −0.0005303
Std Dev 0.2486
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

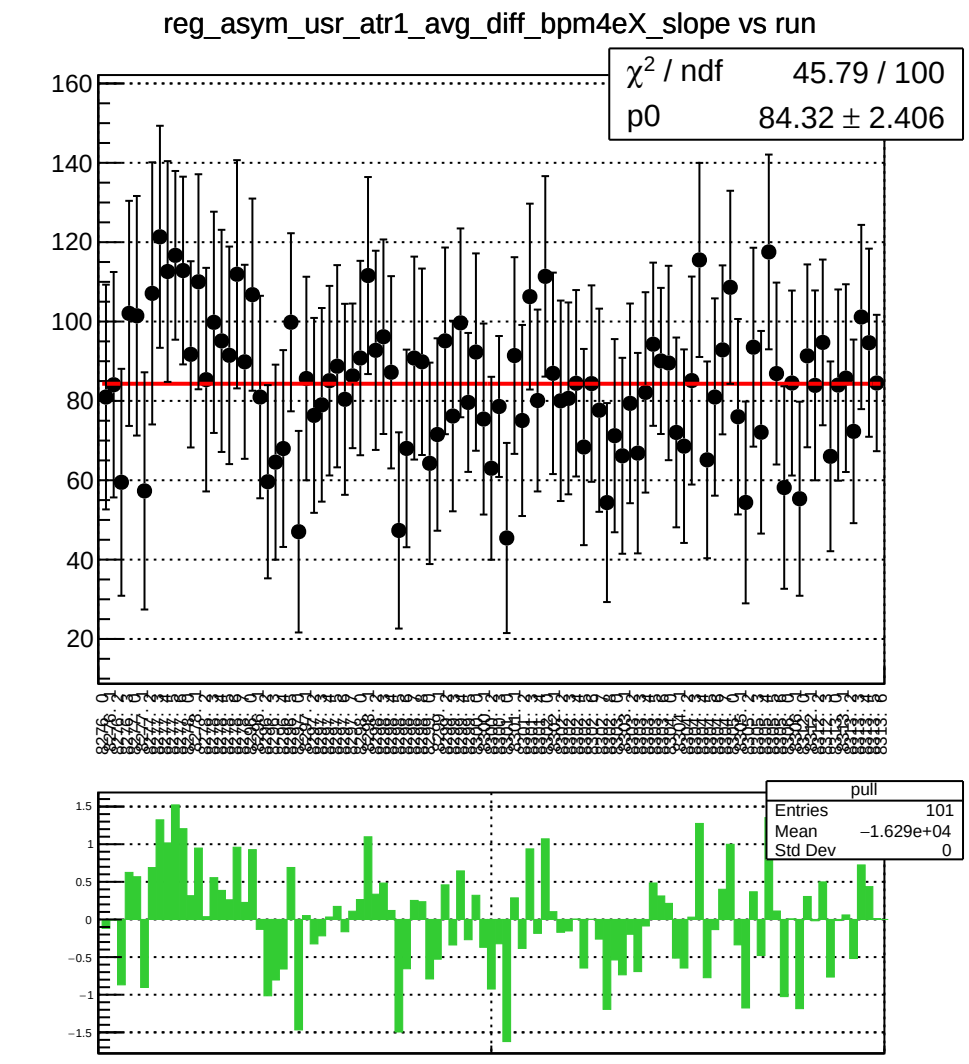

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.046 / 100
p0 −182.9 ± 4.164
pull
Entries 101
Mean 760.7
Std Dev 0
pull1D
Entries 101
Mean 0.003277
Std Dev 0.2993

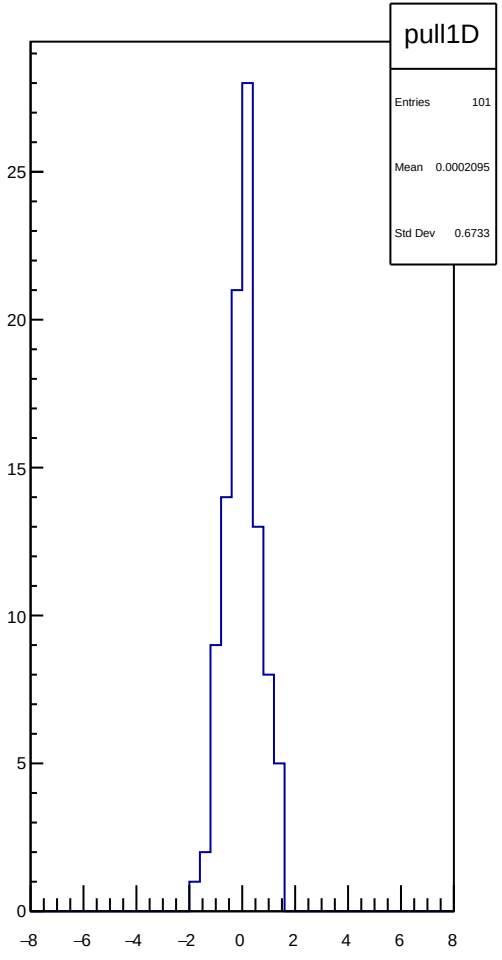

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.226 / 100
p0 −17.24 ± 7.57
150
100
50
0
−50
−100
−150
pull
Entries 101
Mean −1.469e+04
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 101
Mean 1.718e−05
Std Dev 0.2483
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

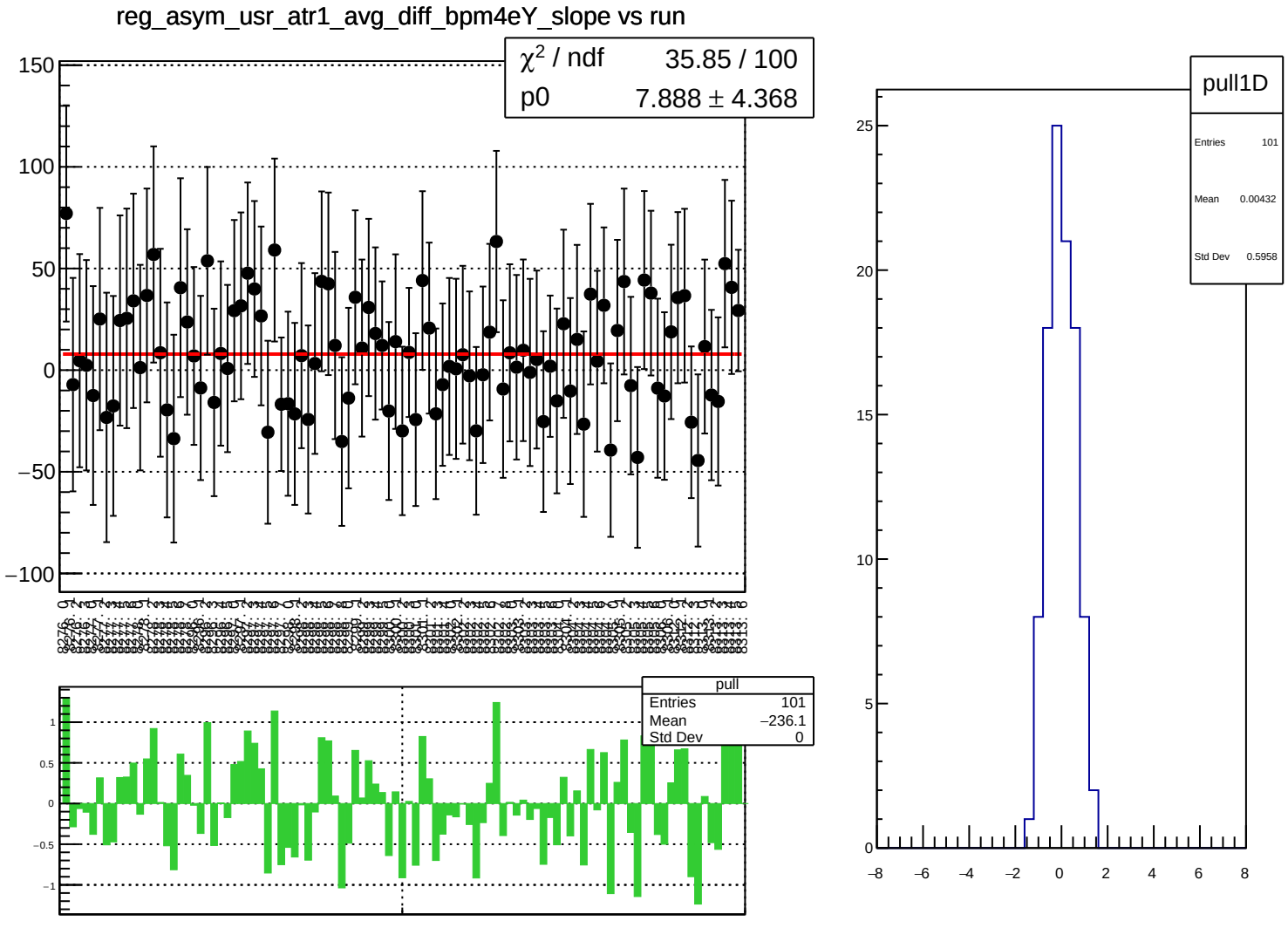

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 15.26 / 100
p0 114.6 ± 0.4021
pull
Entries 101
Mean −222.8
Std Dev 0
pull1D
Entries 101
Mean 0.0272
Std Dev 0.3878

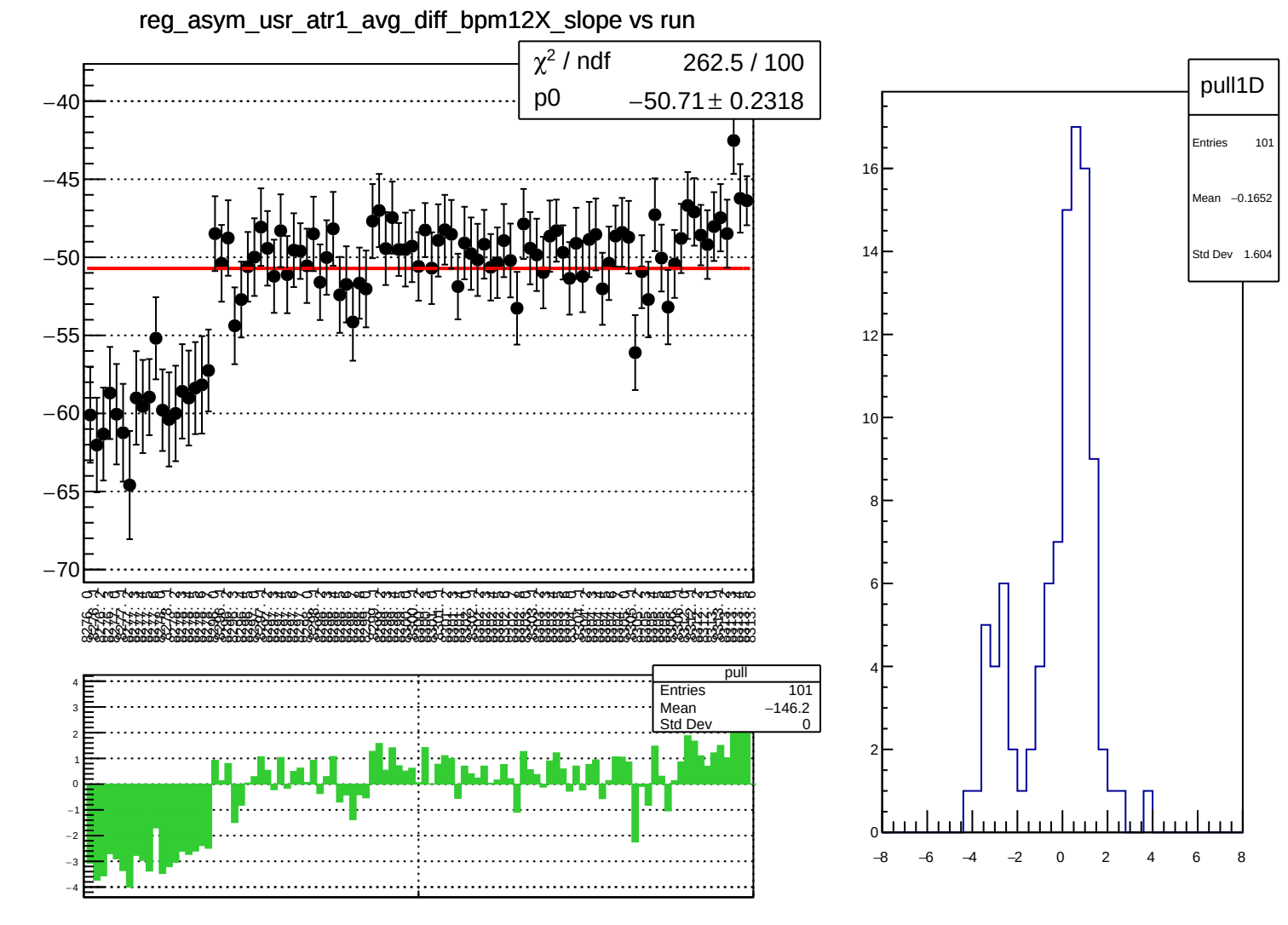

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 50.45 / 100
p0 −92.51 ± 2.156
pull
Entries 101
Mean −1373
Std Dev 0
pull1D
Entries 101
Mean −0.002708
Std Dev 0.7068

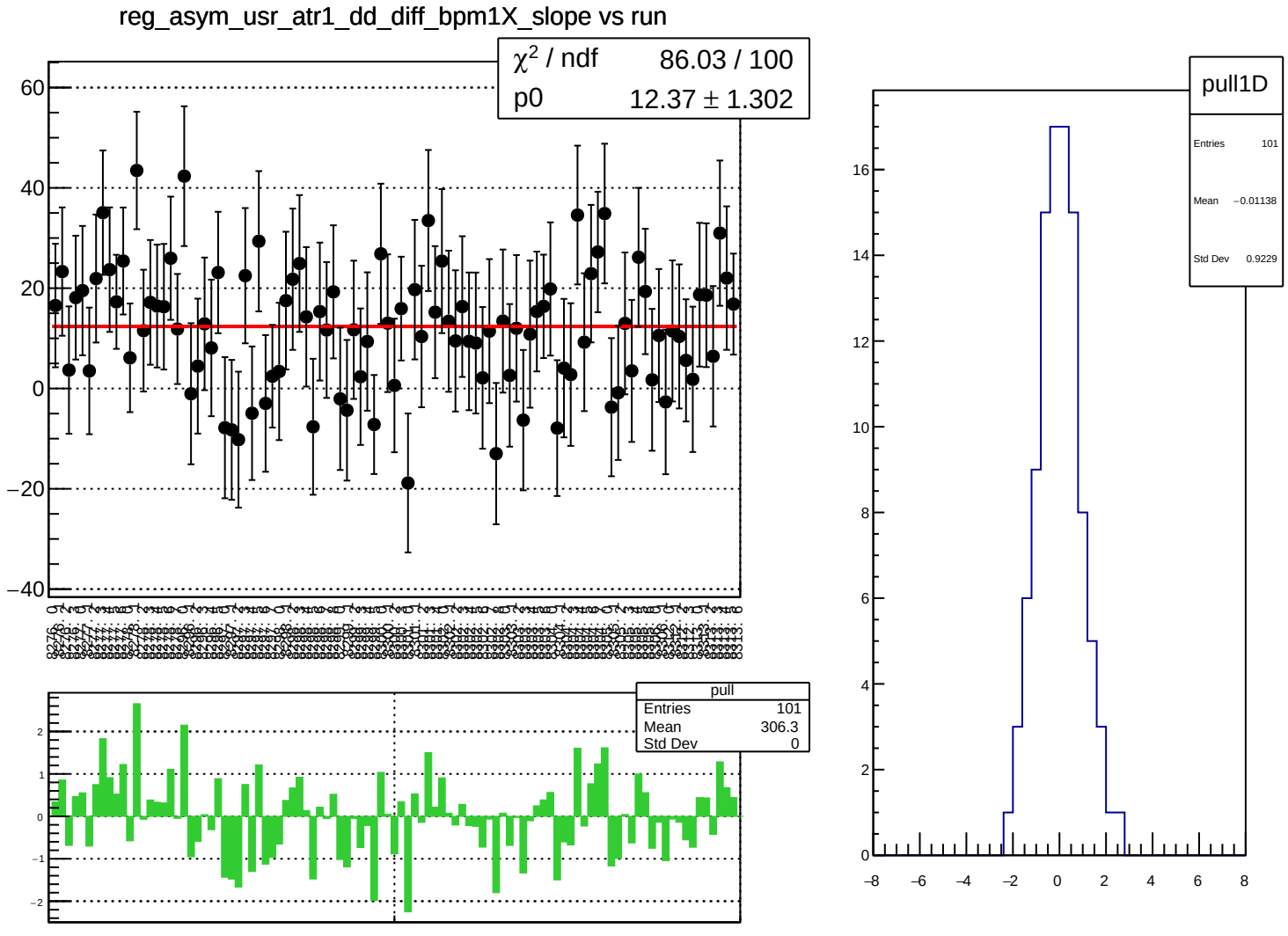

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 34.19 / 100
p0 5.984 ± 4.205
100
50
0
−50
−100
pull
Entries 101
Mean −192.7
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 101
Mean −0.001457
Std Dev 0.5818
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

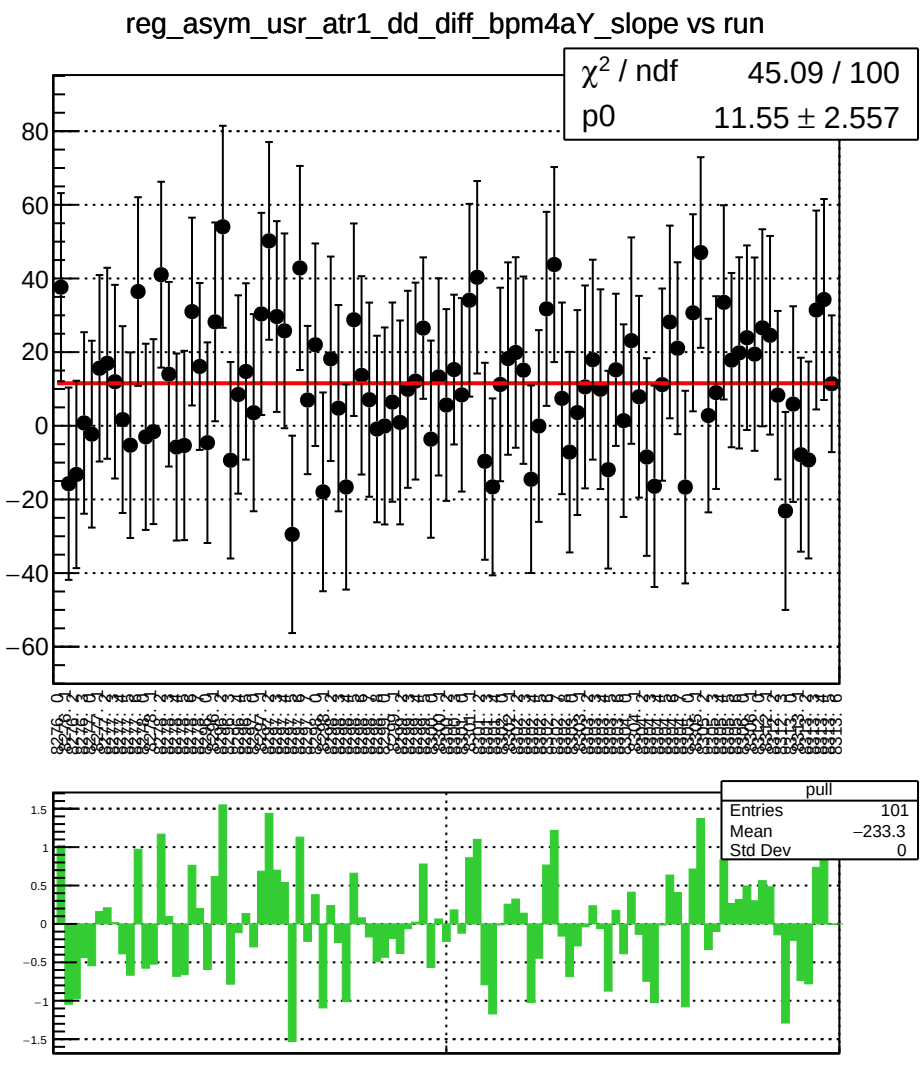

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 45.79 / 100
p0 84.32 ± 2.406
pull
Entries 101
Mean −1.629e+04
Std Dev 0

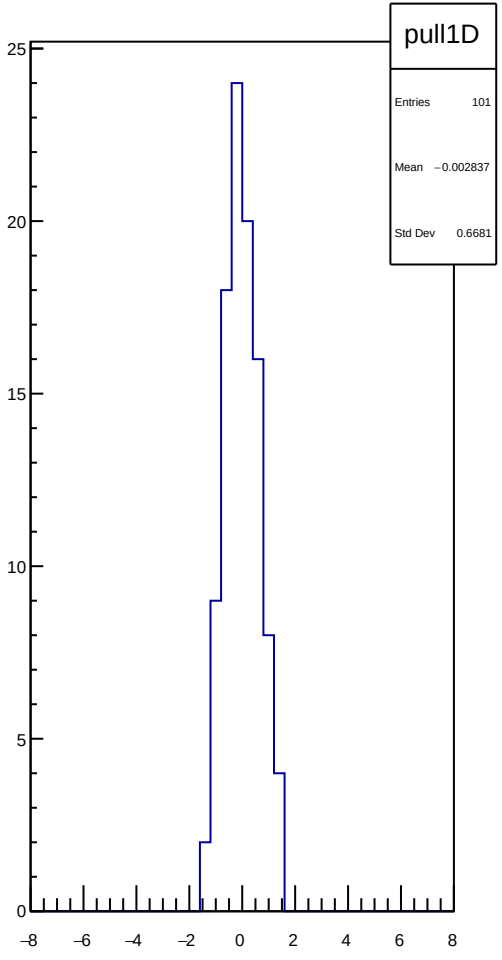

pull1D
Entries 101
Mean 0.0002095
Std Dev 0.6733

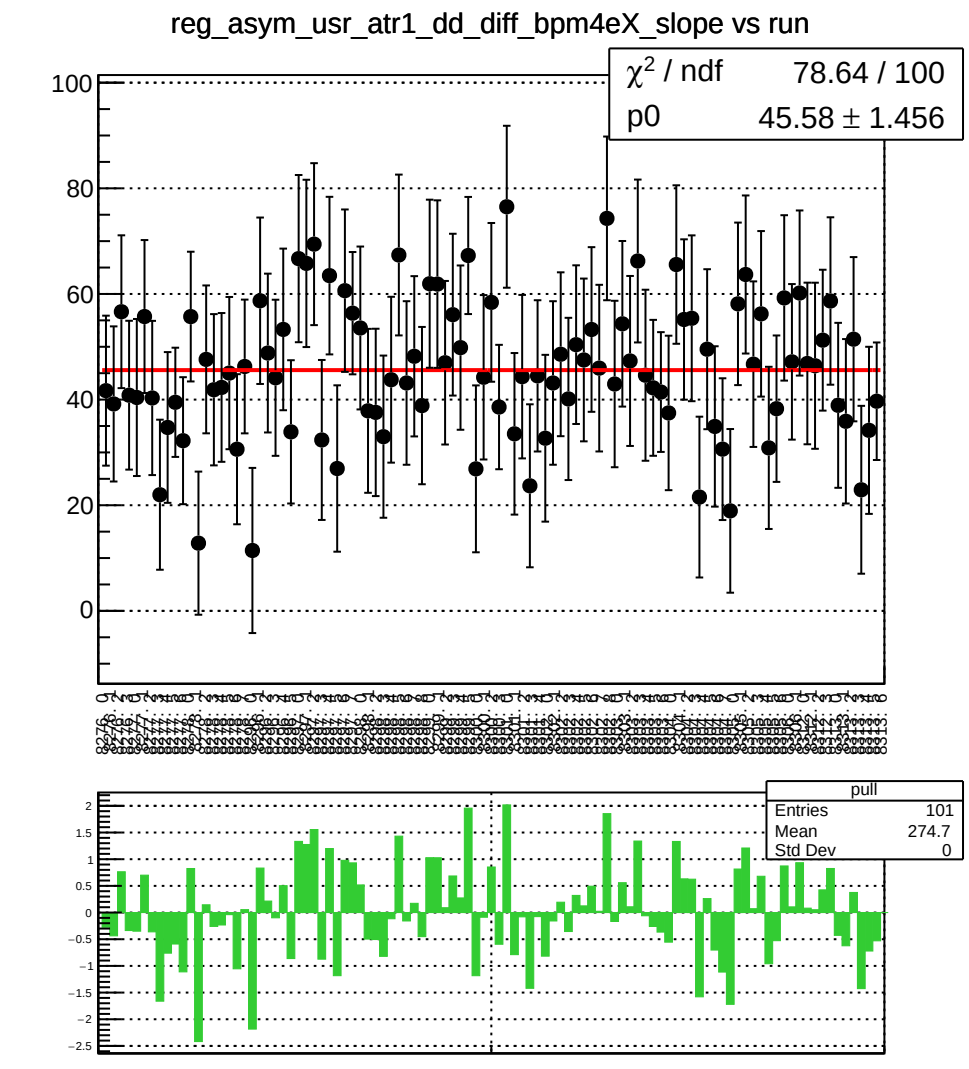

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 35.85 / 100
p0 7.888 ± 4.368
150
100
50
0
−50
−100
pull
Entries 101
Mean −236.1
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 101
Mean 0.00432
Std Dev 0.5958
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

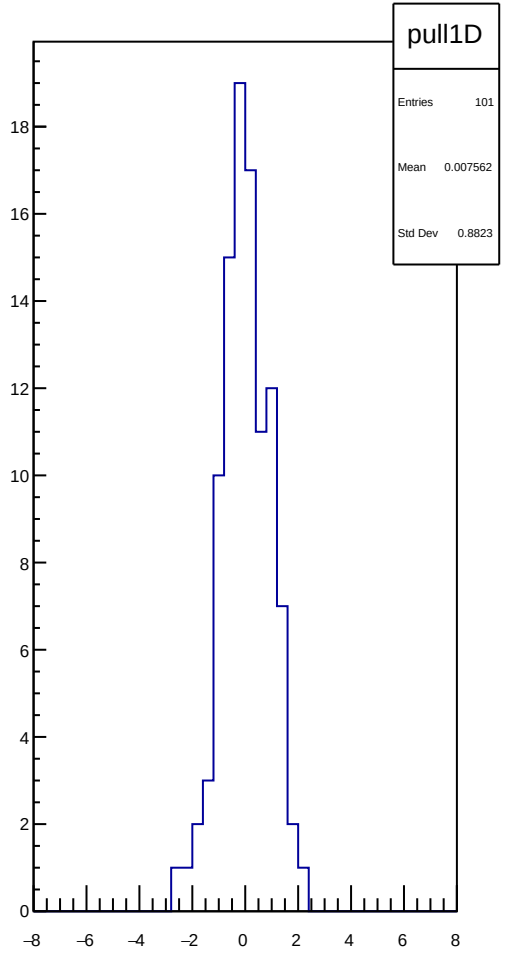

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 262.5 / 100
p0 −50.71 ± 0.2318
pull
Entries 101
Mean −146.2
Std Dev 0
pull1D
Entries 101
Mean −0.1652
Std Dev 1.604

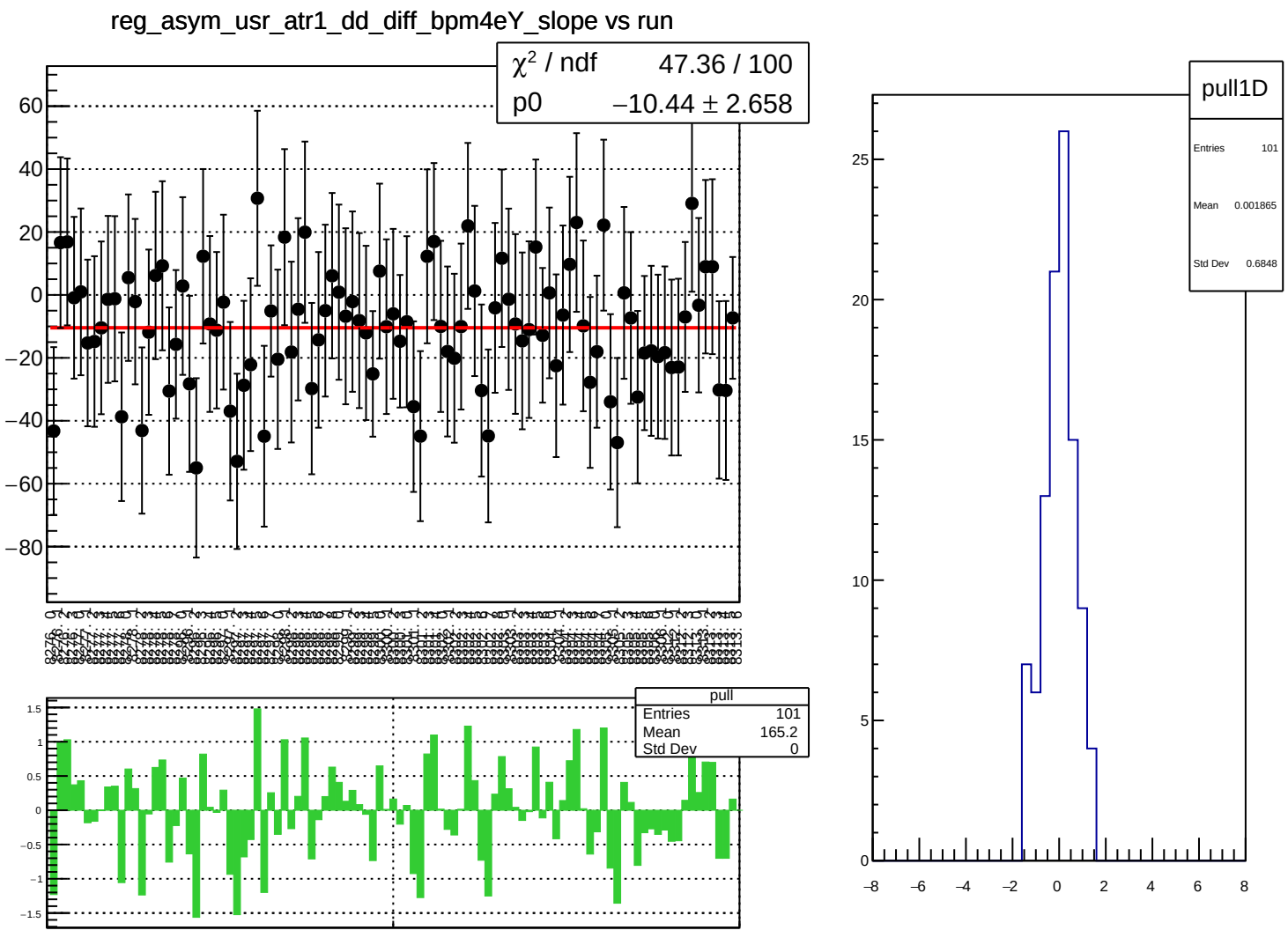

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 86.03 / 100
p0 12.37 ± 1.302
pull
Entries 101
Mean 306.3
Std Dev 0
pull1D
Entries 101
Mean −0.01138
Std Dev 0.9229

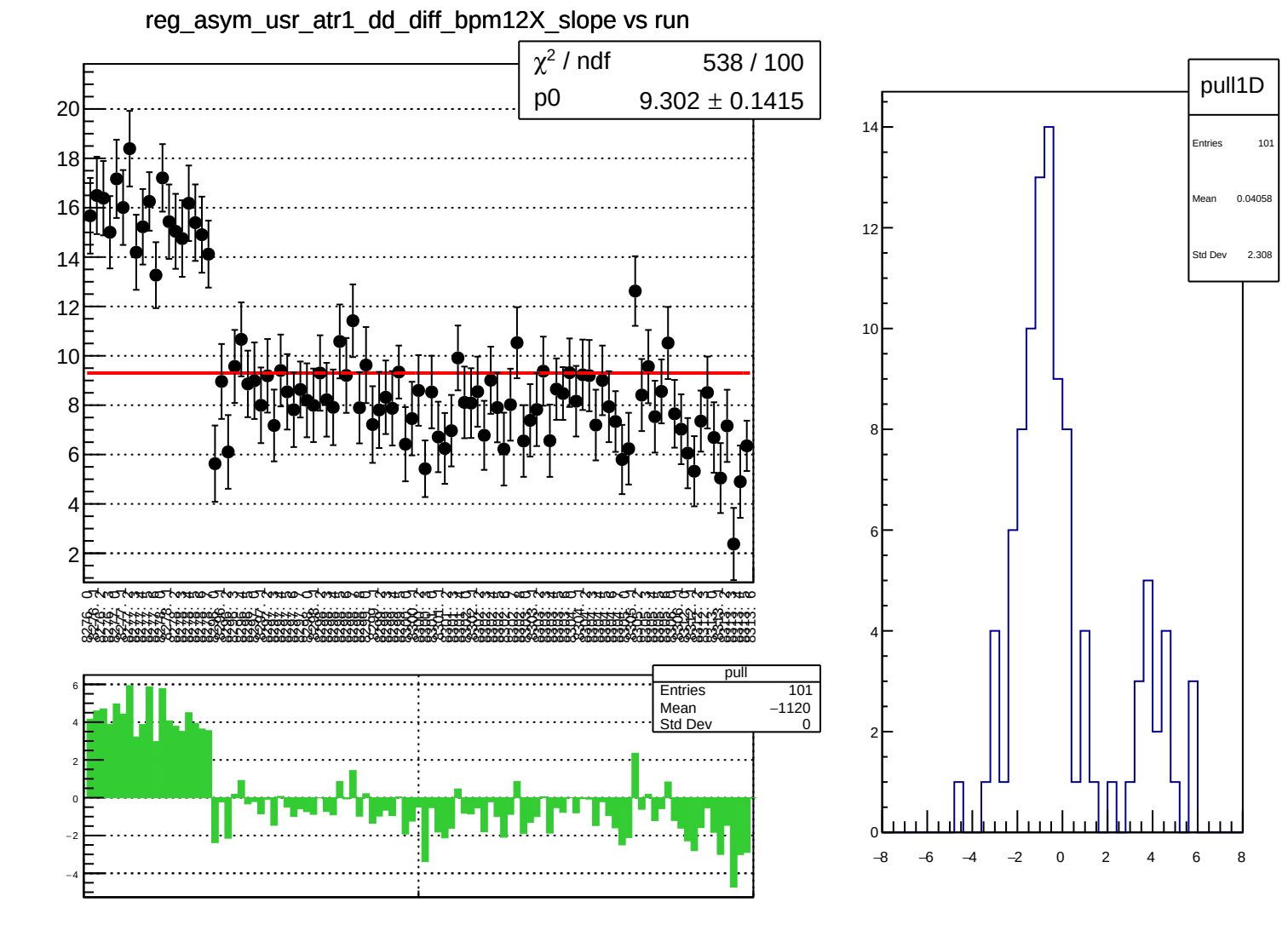

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 45.09 / 100
p0 11.55 ± 2.557
pull
Entries 101
Mean −233.3
Std Dev 0

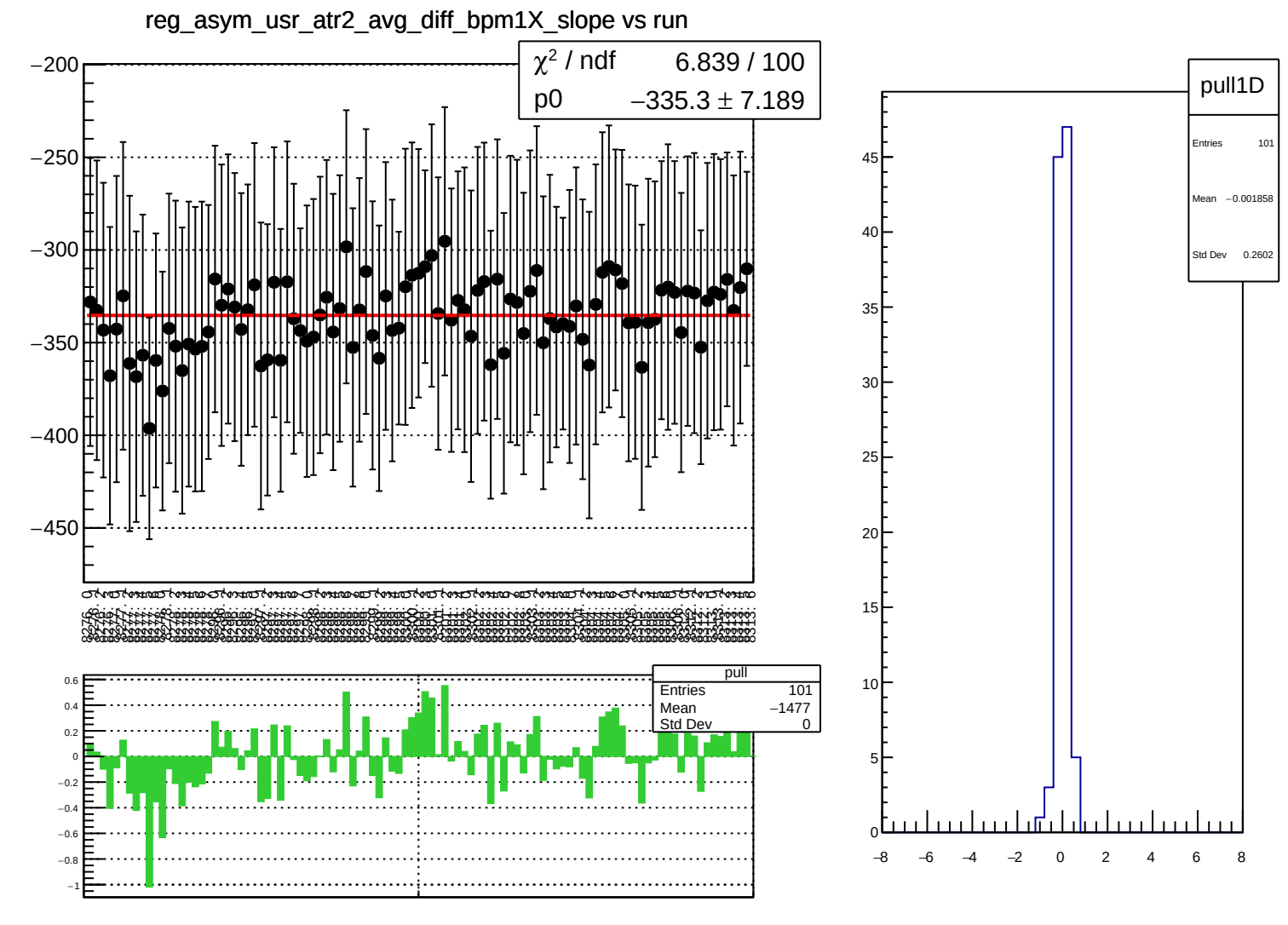

pull1D
Entries 101
Mean −0.002837
Std Dev 0.6681

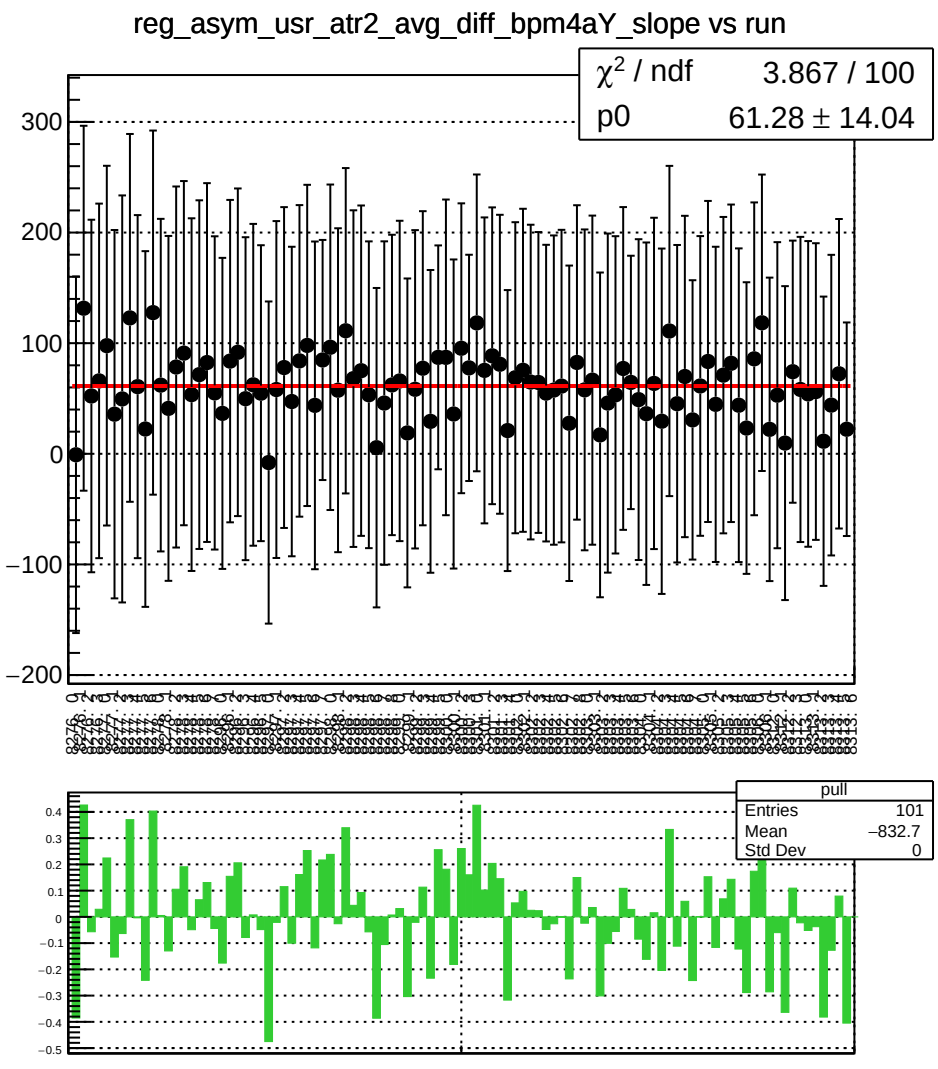

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 78.64 / 100
p0 45.58 ± 1.456
pull
Entries 101
Mean 274.7
Std Dev 0

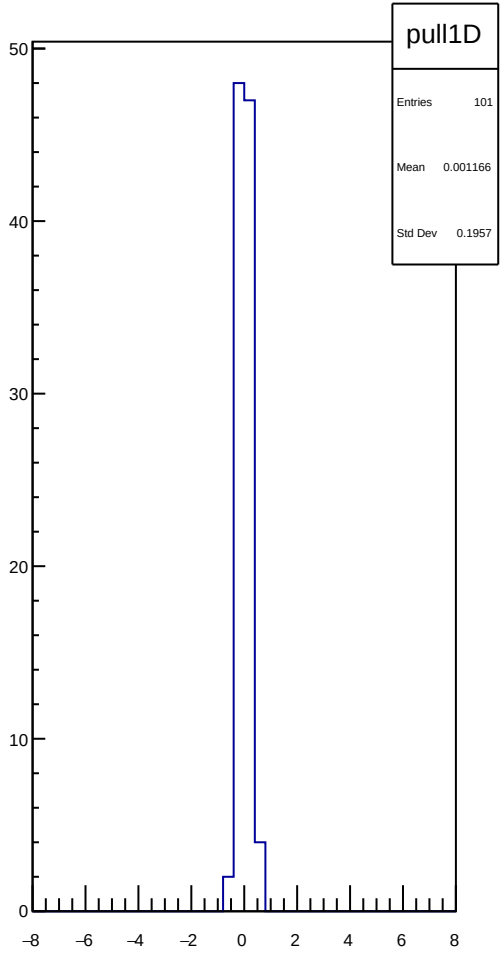

pull1D
Entries 101
Mean 0.007562
Std Dev 0.8823

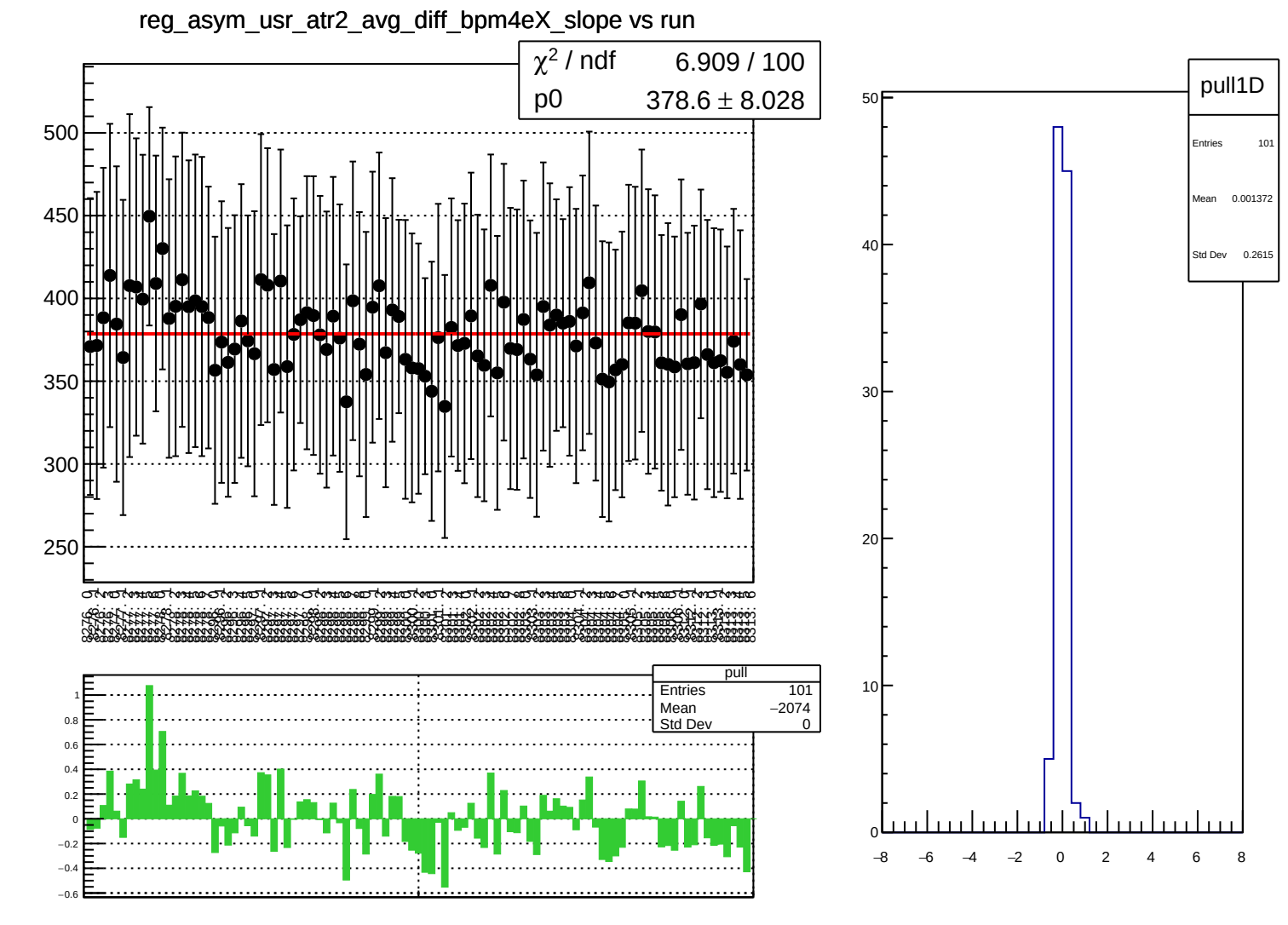

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 47.36 / 100
p0 −10.44 ± 2.658
pull
Entries 101
Mean 165.2
Std Dev 0
pull1D
Entries 101
Mean 0.001865
Std Dev 0.6848

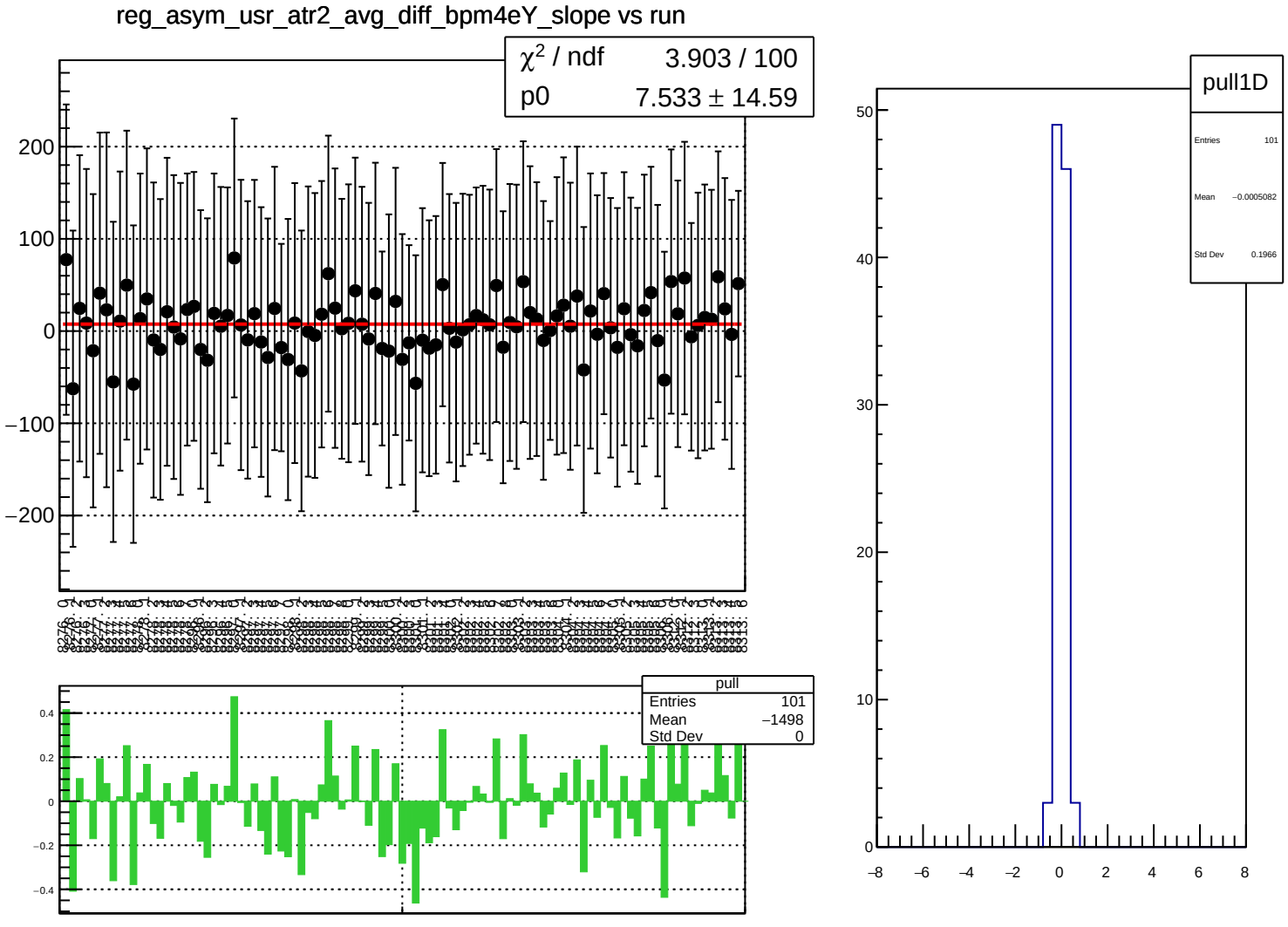

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 538 / 100
p0 9.302 ± 0.1415
pull
Entries 101
Mean −1120
Std Dev 0
pull1D
Entries 101
Mean 0.04058
Std Dev 2.308

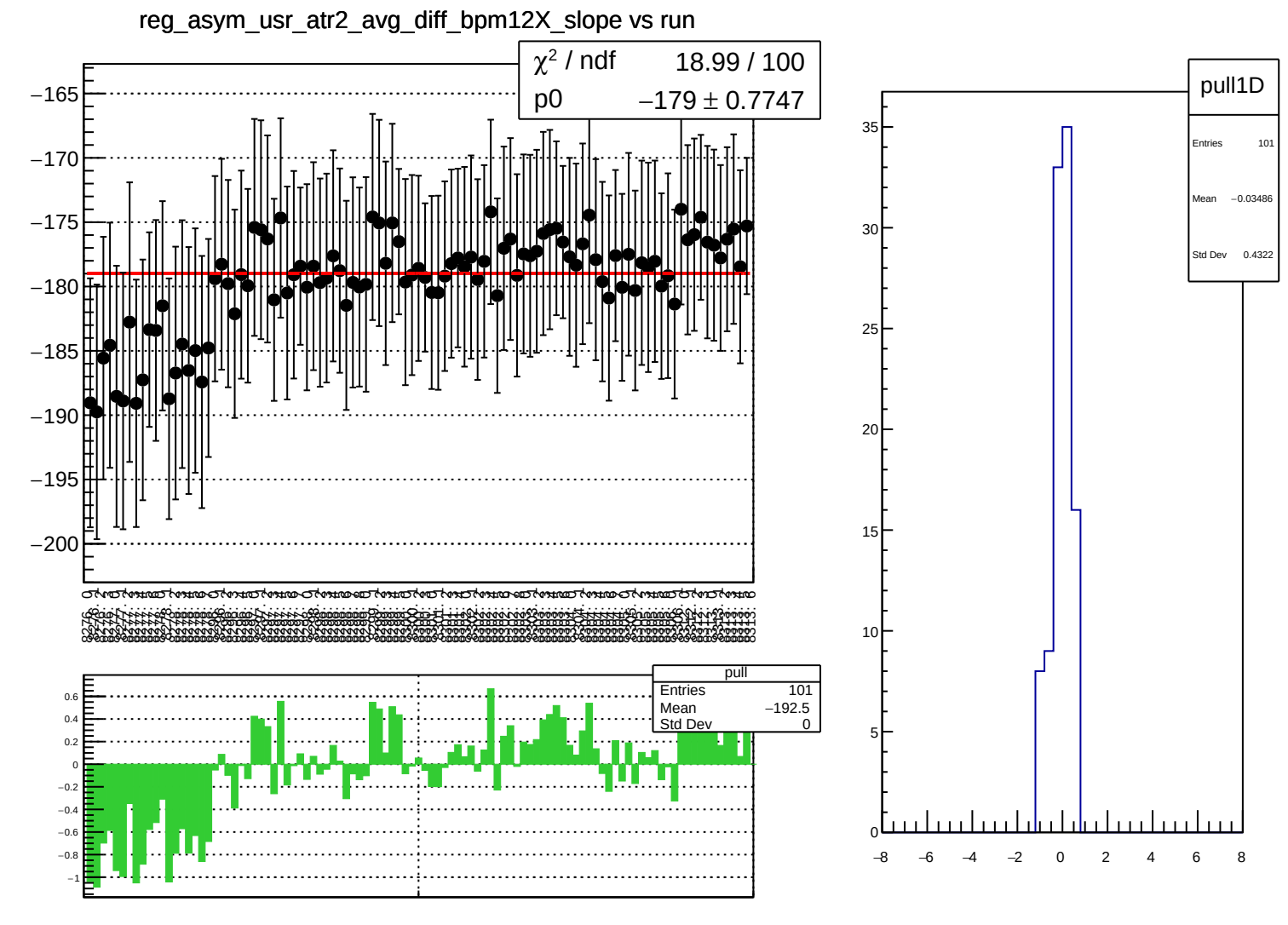

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 6.839 / 100
p0 −335.3 ± 7.189
pull
Entries 101
Mean −1477
Std Dev 0
pull1D
Entries 101
Mean −0.001858
Std Dev 0.2602

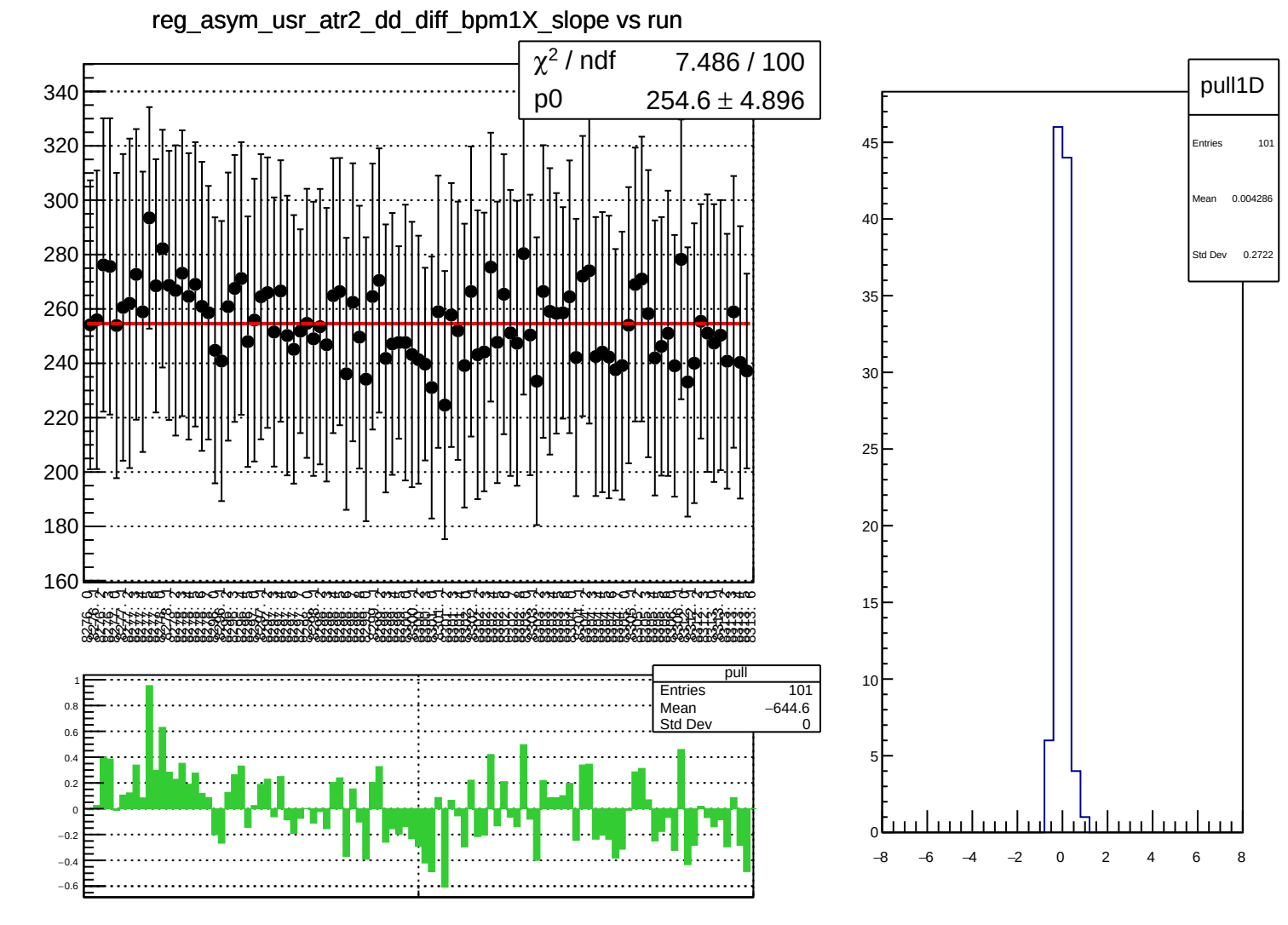

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.867 / 100
p0 61.28 ± 14.04
300
200
100
0
−100
−200
pull
Entries 101
Mean −832.7
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

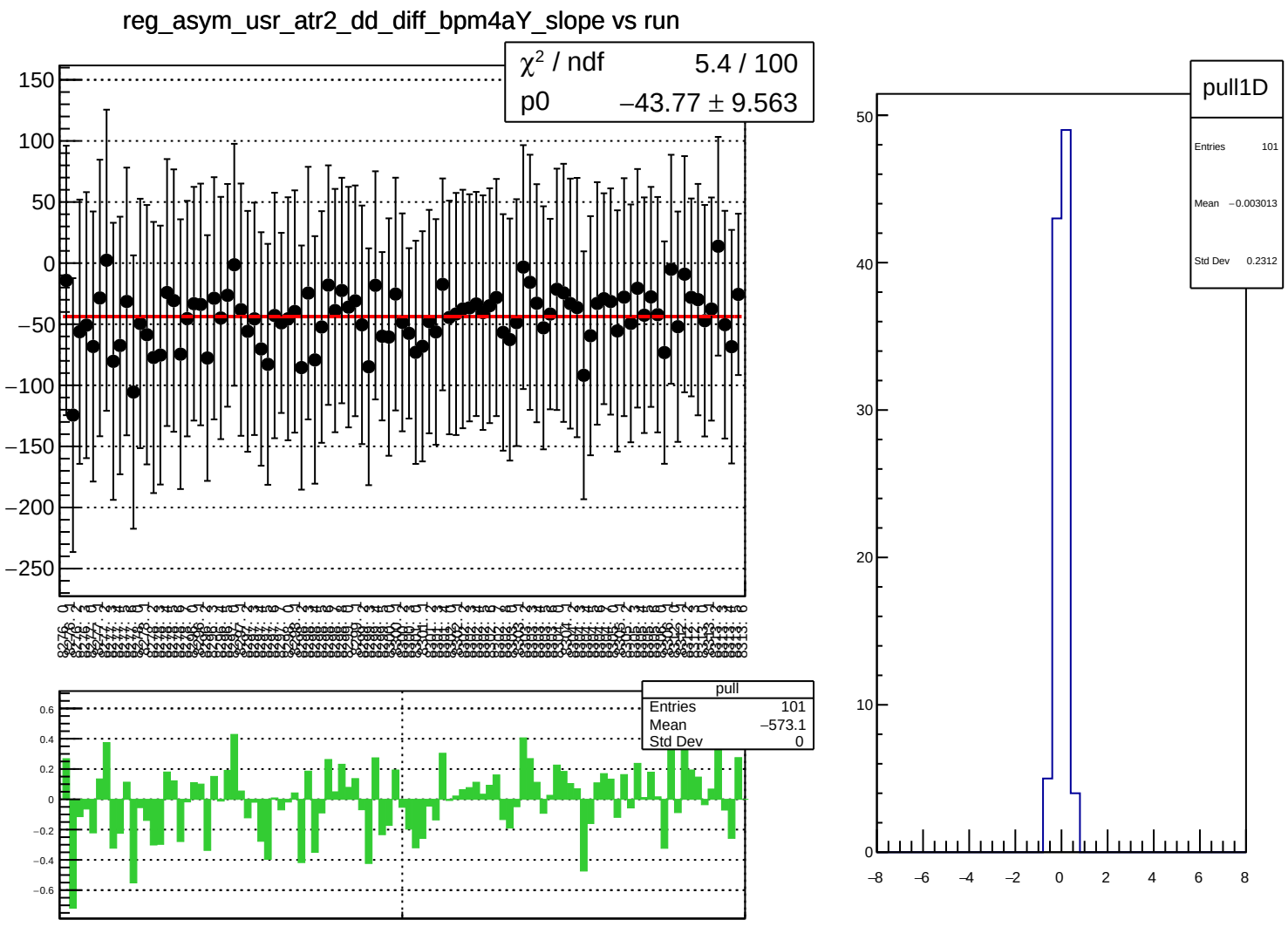

pull1D
Entries 101
Mean 0.001166
Std Dev 0.1957
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

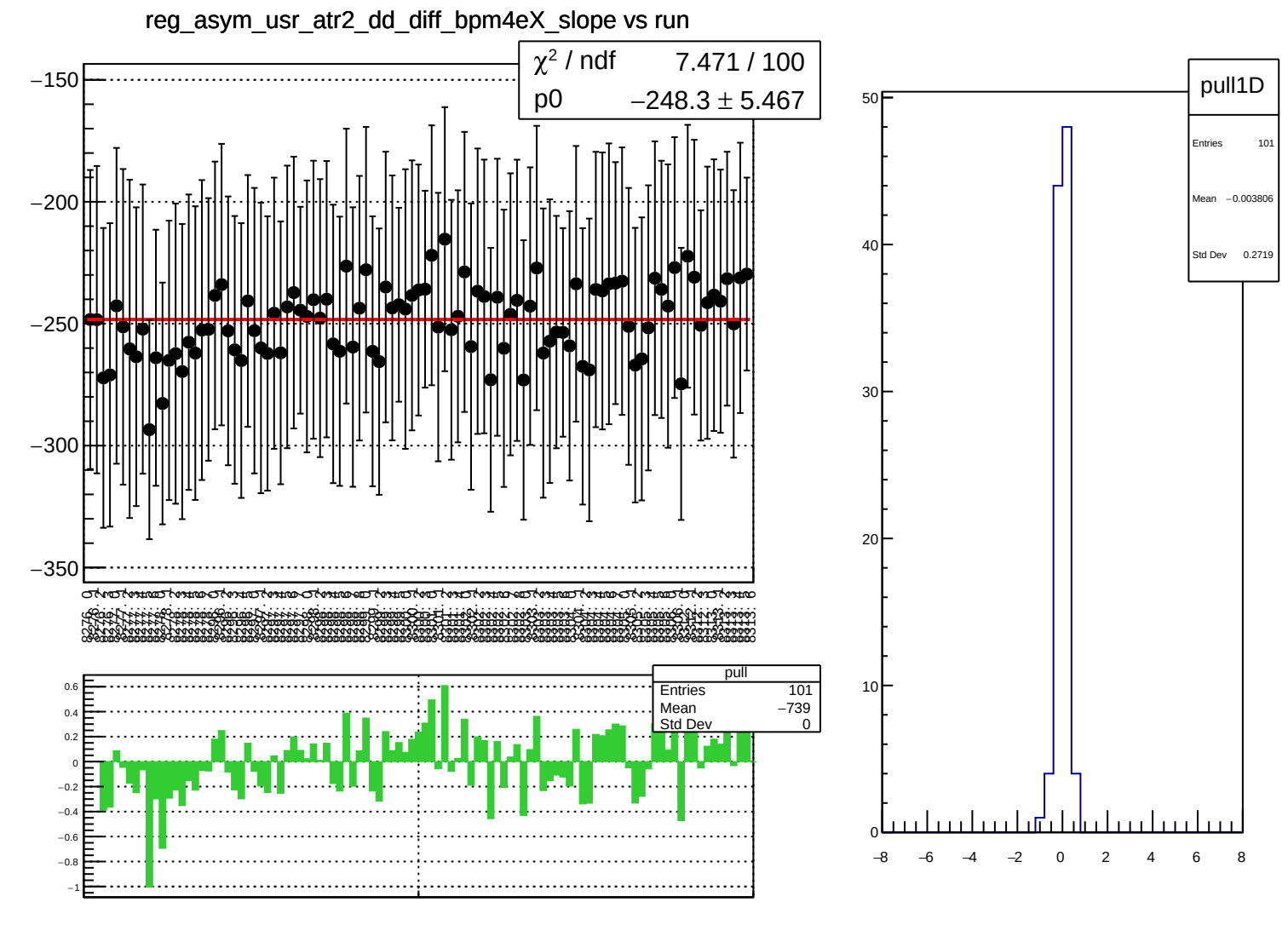

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.909 / 100
p0 378.6 ± 8.028
pull
Entries 101
Mean −2074
Std Dev 0
pull1D
Entries 101
Mean 0.001372
Std Dev 0.2615

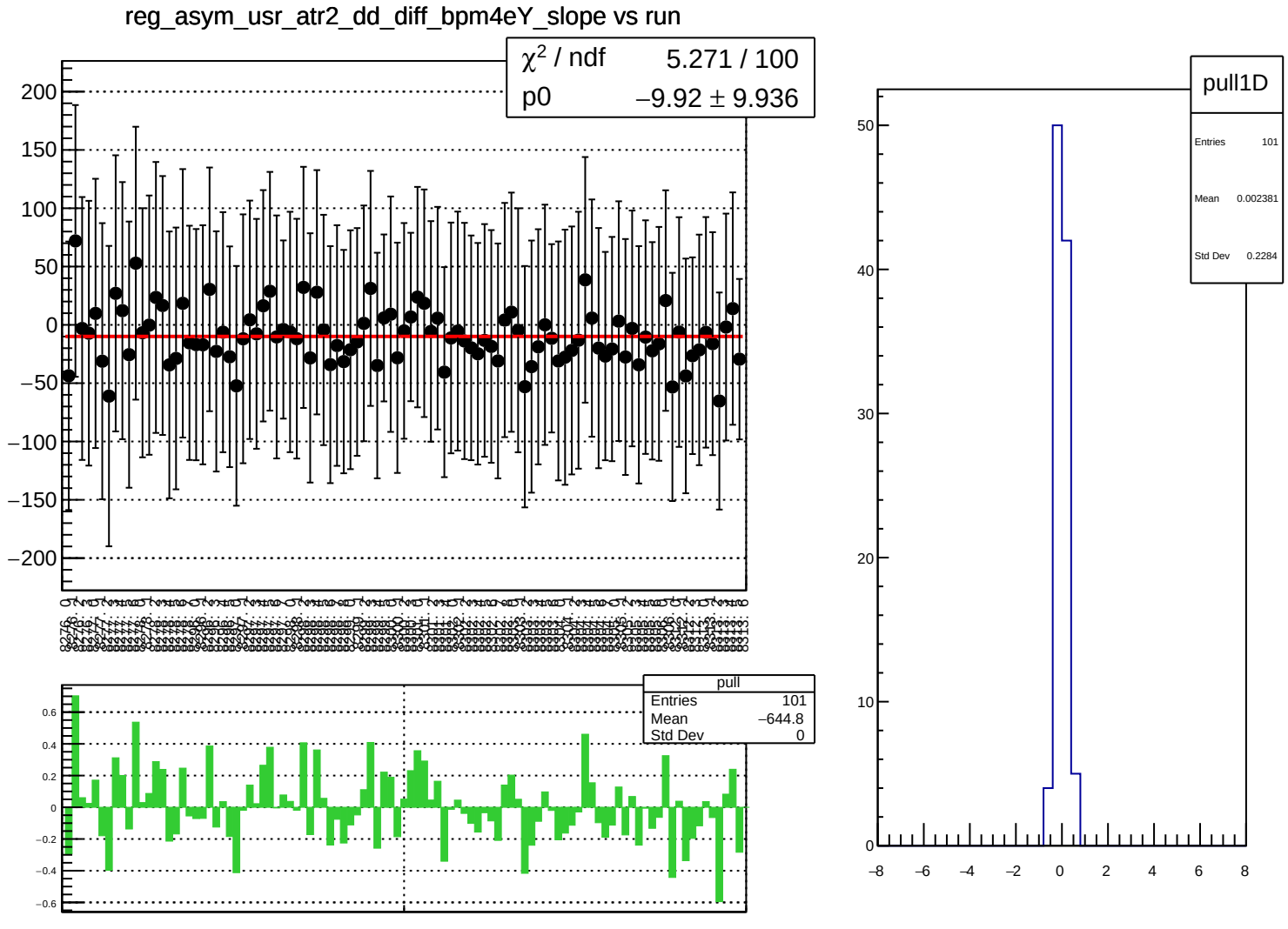

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.903 / 100
p0 7.533 ± 14.59
200
100
0
−100
−200
pull
Entries 101
Mean −1498
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 101
Mean −0.0005082
Std Dev 0.1966
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

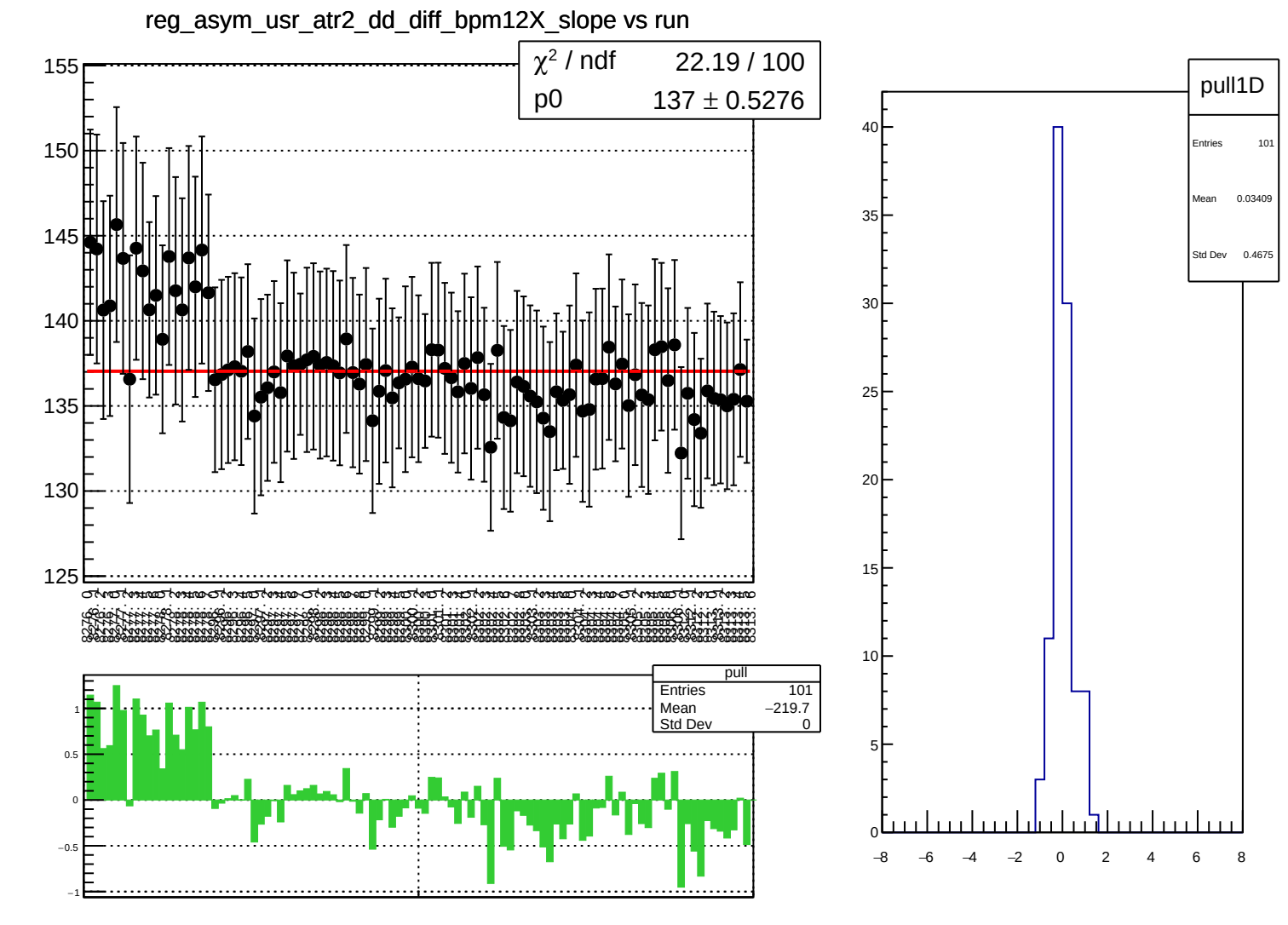

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 18.99 / 100
p0 −179 ± 0.7747
−165
−170
−175
−180
−185
−190
−195
−200
pull
Entries 101
Mean −192.5
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 101
Mean −0.03486
Std Dev 0.4322
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

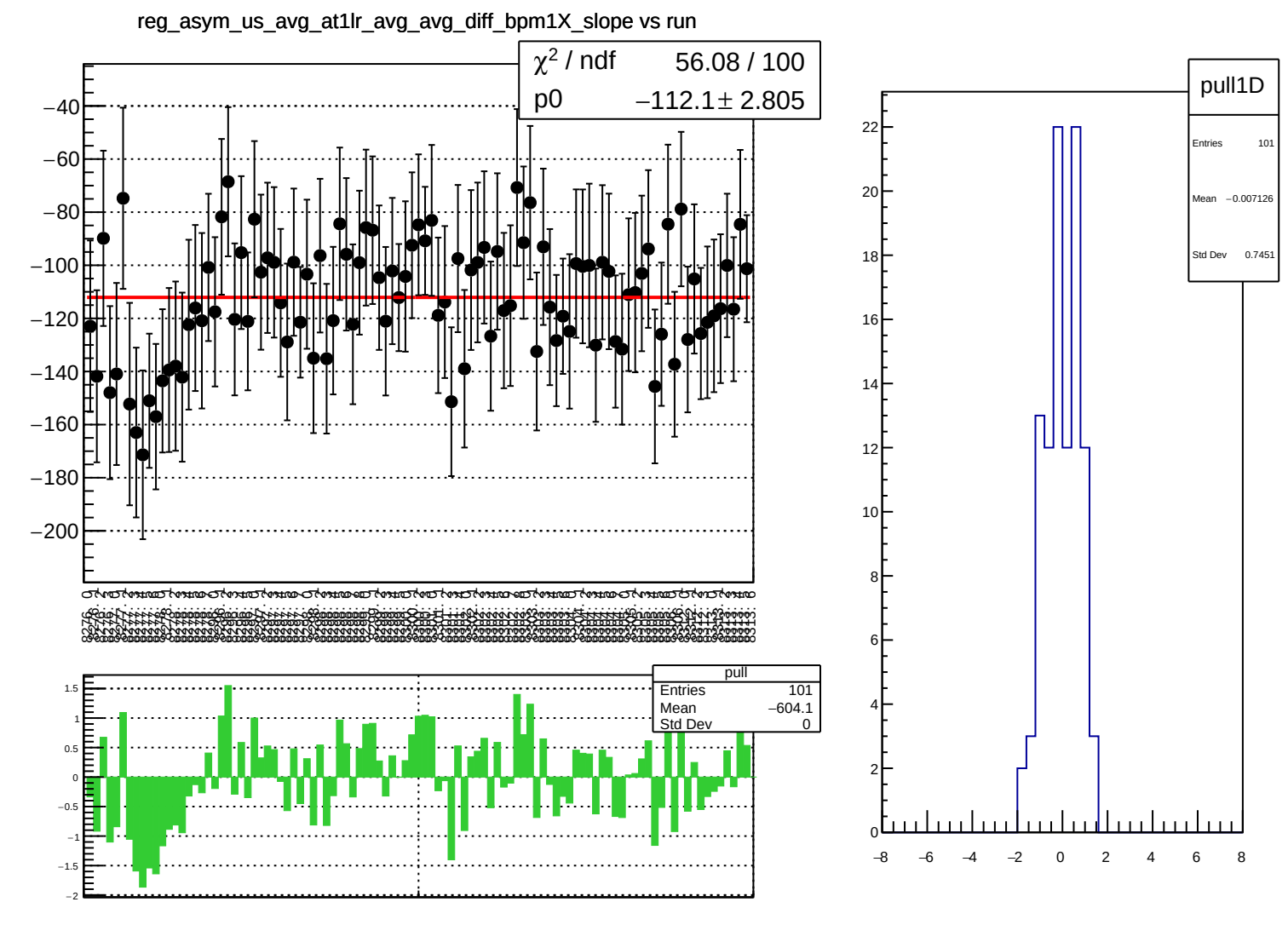

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 7.486 / 100
p0 254.6 ± 4.896
pull
Entries 101
Mean −644.6
Std Dev 0
pull1D
Entries 101
Mean 0.004286
Std Dev 0.2722

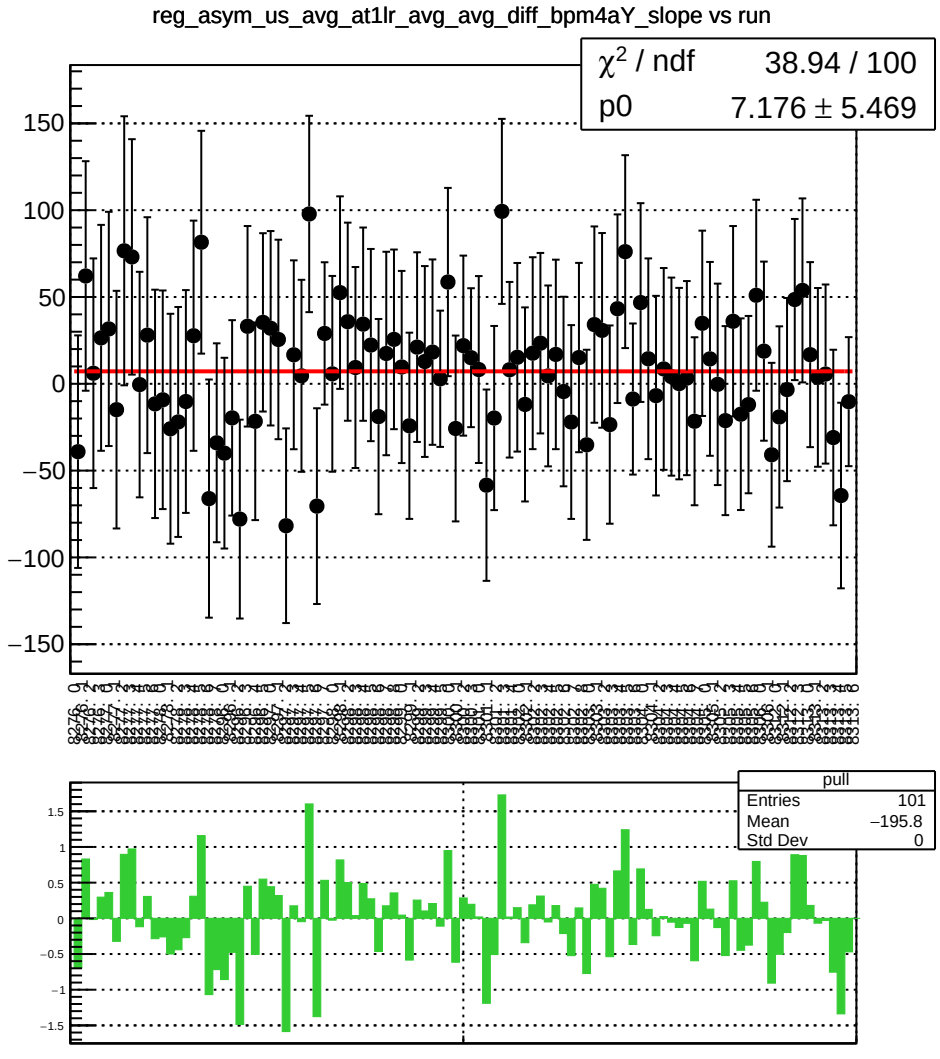

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.4 / 100
p0 −43.77 ± 9.563
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 101
Mean −573.1
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 101
Mean −0.003013
Std Dev 0.2312
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

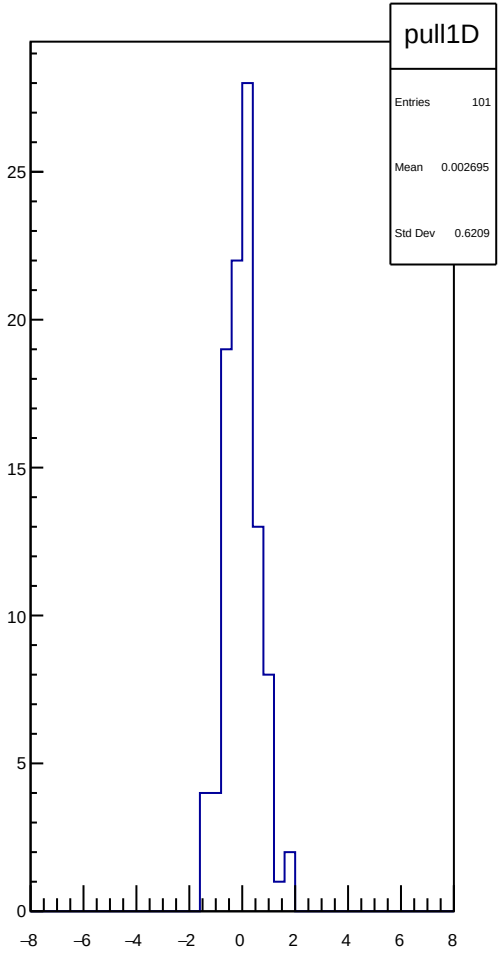

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.471 / 100
p0 −248.3 ± 5.467
−150
−200
−250
−300
−350
pull
Entries 101
Mean −739
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 101
Mean −0.003806
Std Dev 0.2719
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

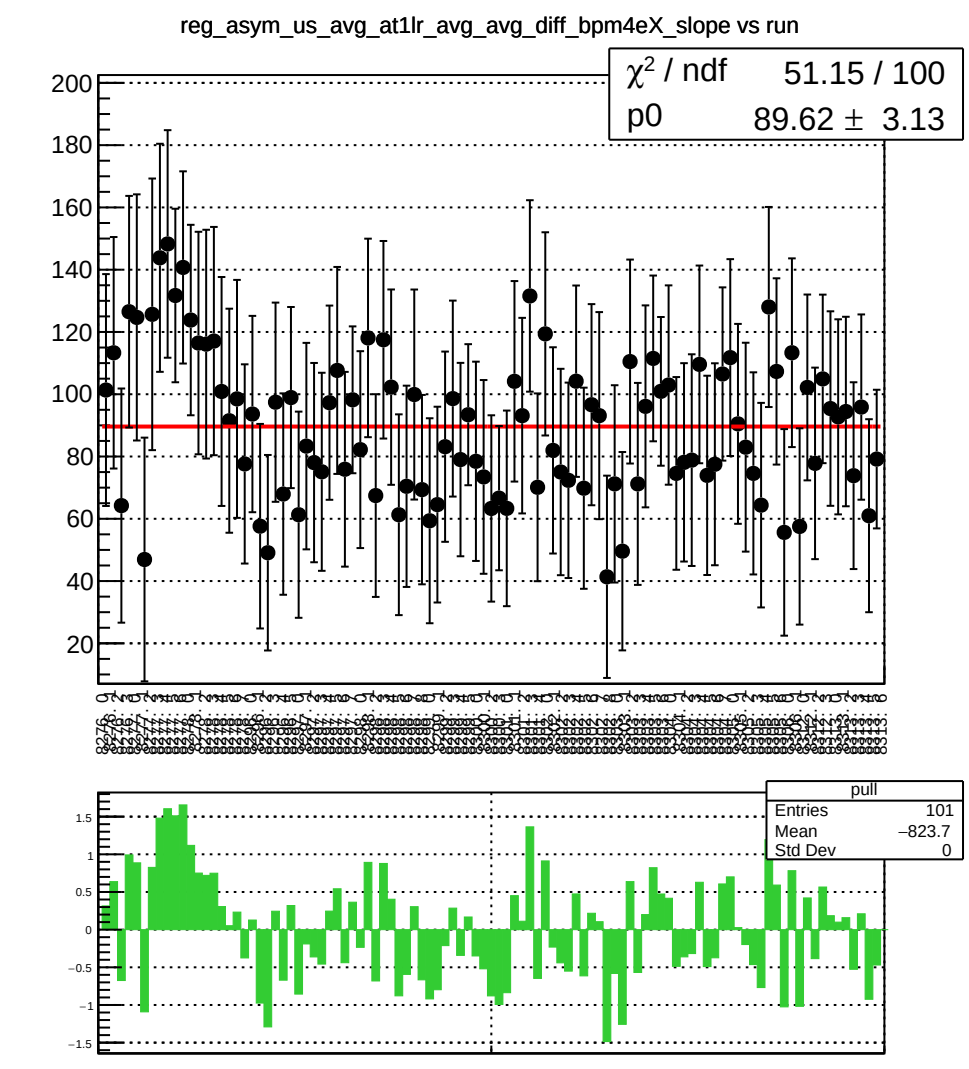

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.271 / 100
p0 −9.92 ± 9.936
pull
Entries 101
Mean −644.8
Std Dev 0
pull1D
Entries 101
Mean 0.002381
Std Dev 0.2284

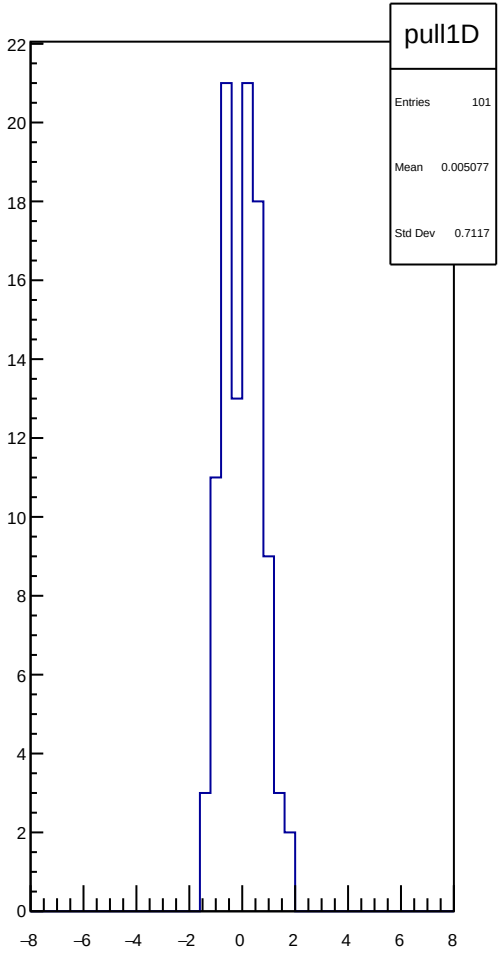

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 22.19 / 100
p0 137 ± 0.5276
155
150
145
140
135
130
125
pull
Entries 101
Mean −219.7
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 101
Mean 0.03409
Std Dev 0.4675
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

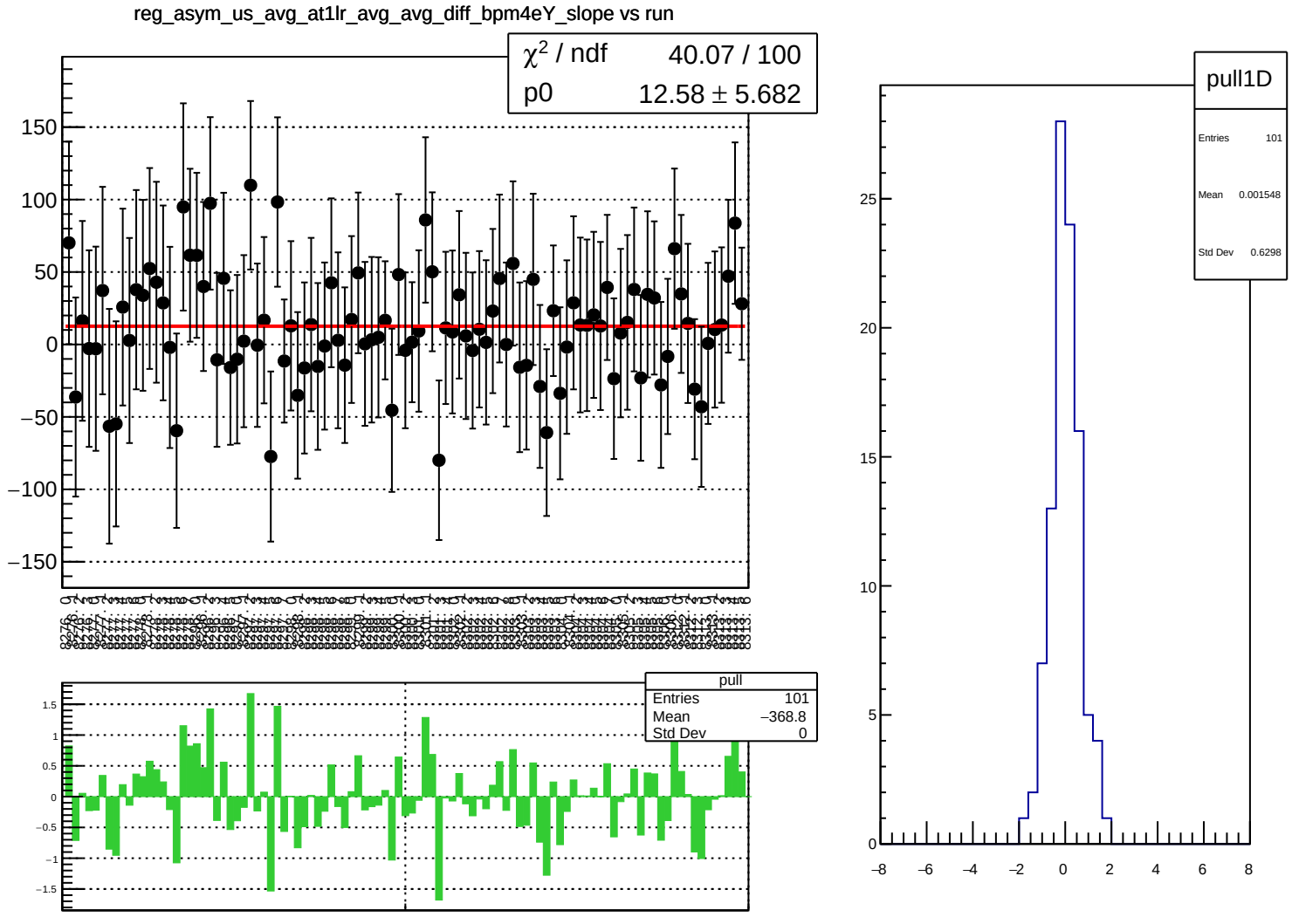

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 56.08 / 100
p0 −112.1± 2.805
pull
Entries 101
Mean −604.1
Std Dev 0
pull1D
Entries 101
Mean −0.007126
Std Dev 0.7451

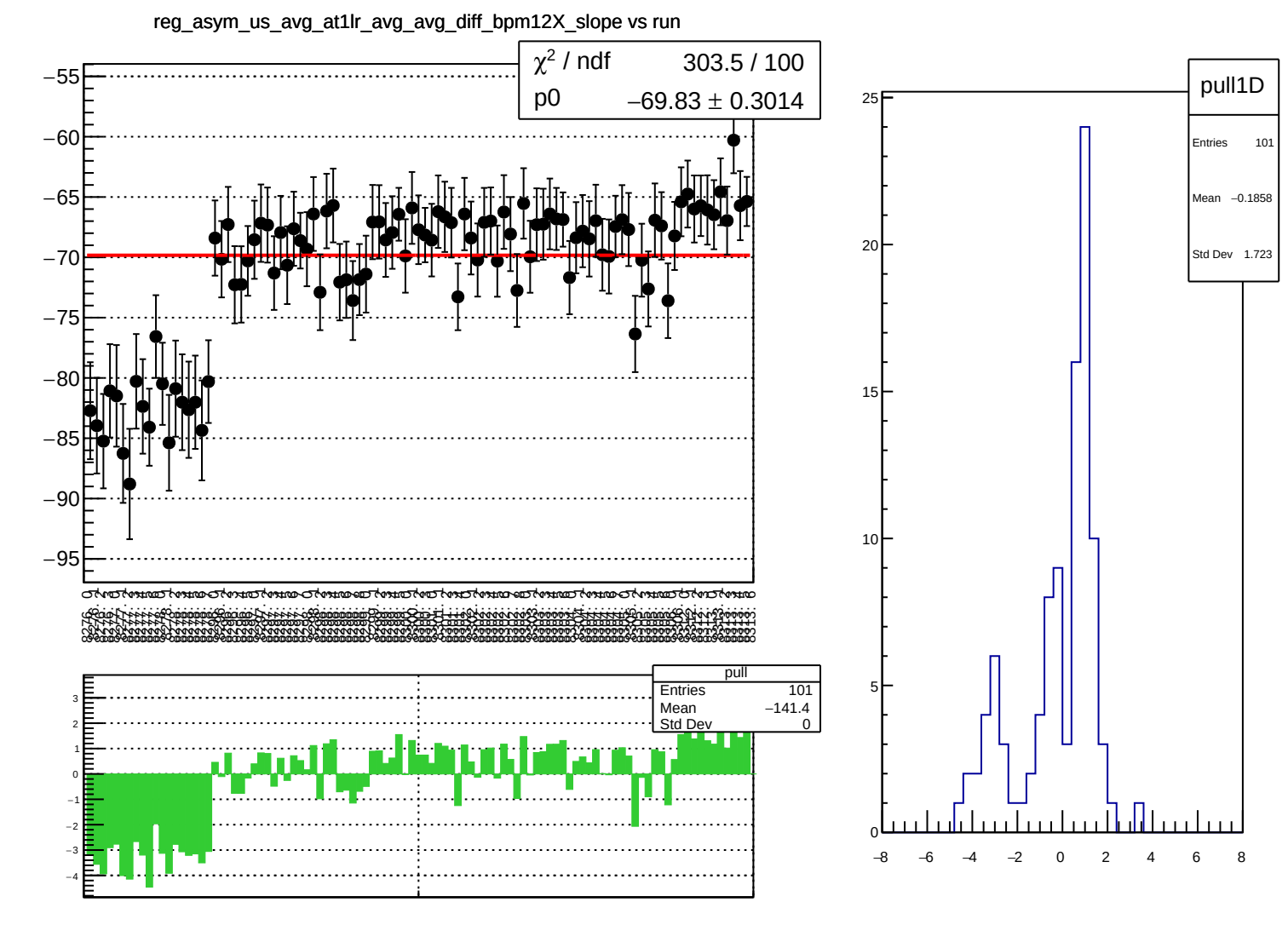

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 38.94 / 100
p0 7.176 ± 5.469
150
100
50
0
−50
−100
−150
pull
Entries 101
Mean −195.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

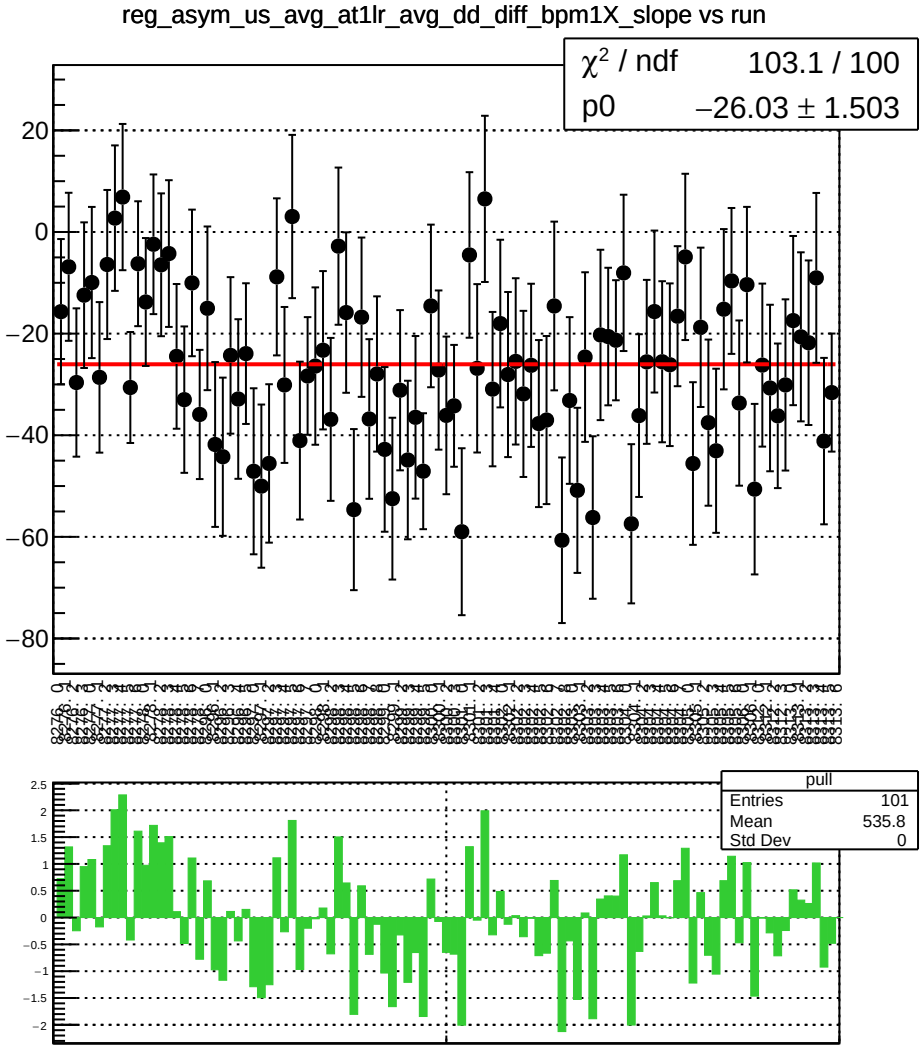

pull1D
Entries 101
Mean 0.002695
Std Dev 0.6209
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

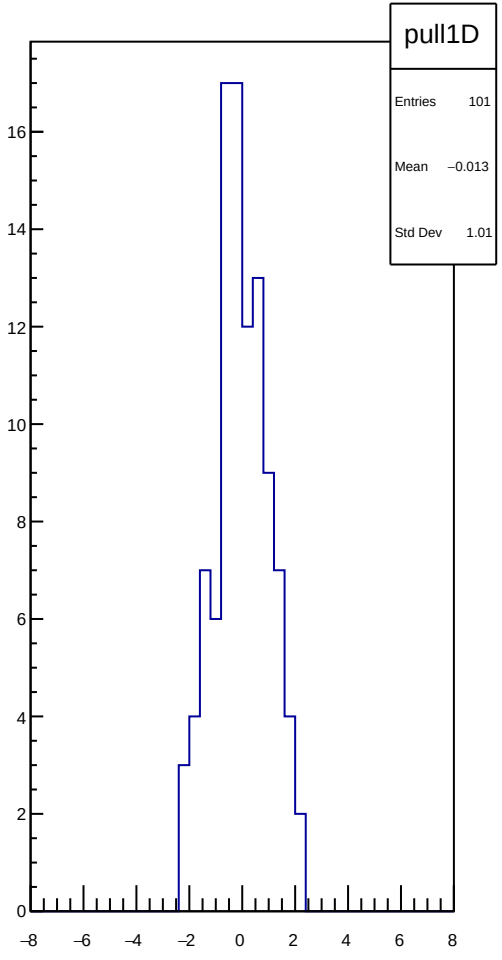

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 51.15 / 100
p0 89.62 ± 3.13
pull
Entries 101
Mean −823.7
Std Dev 0

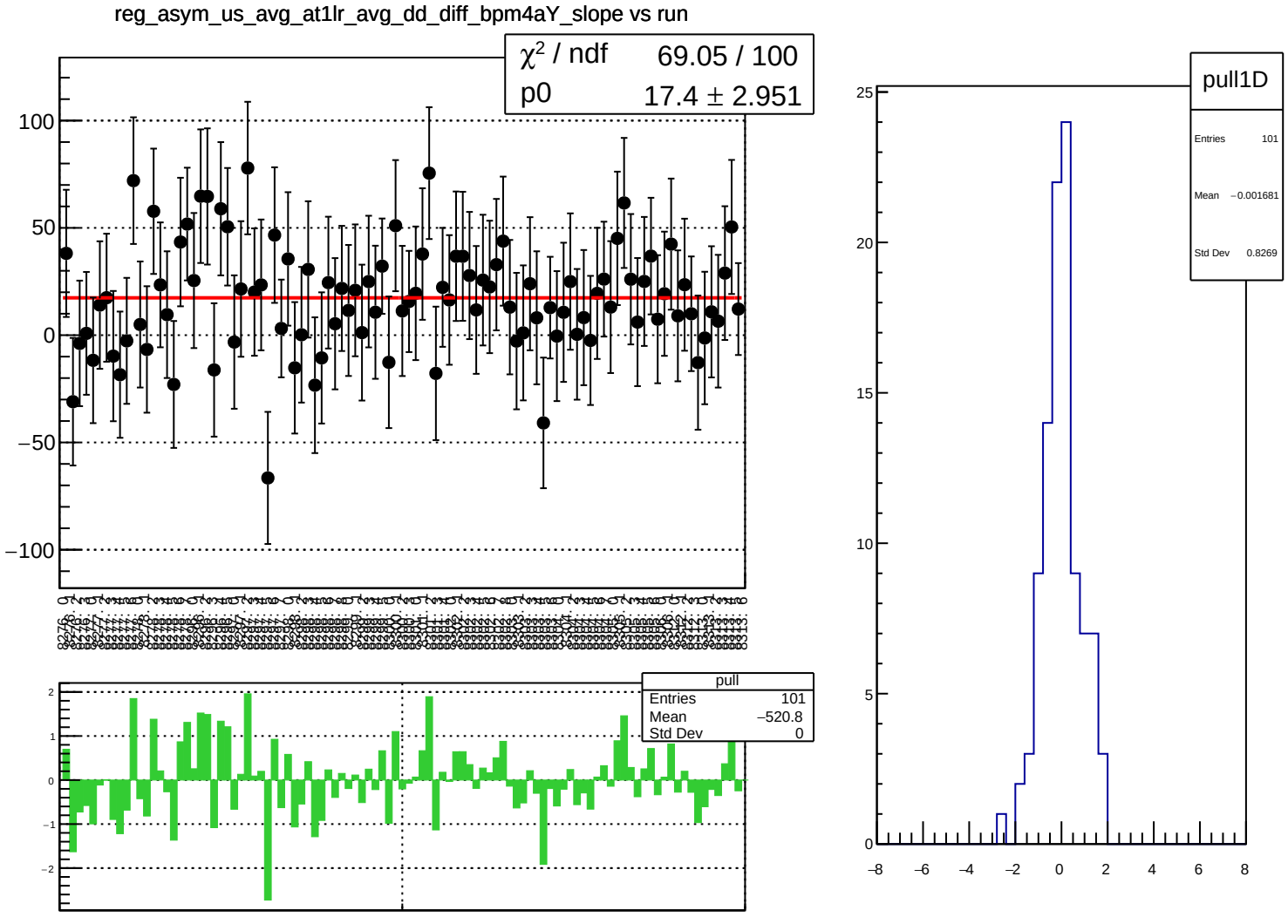

pull1D
Entries 101
Mean 0.005077
Std Dev 0.7117

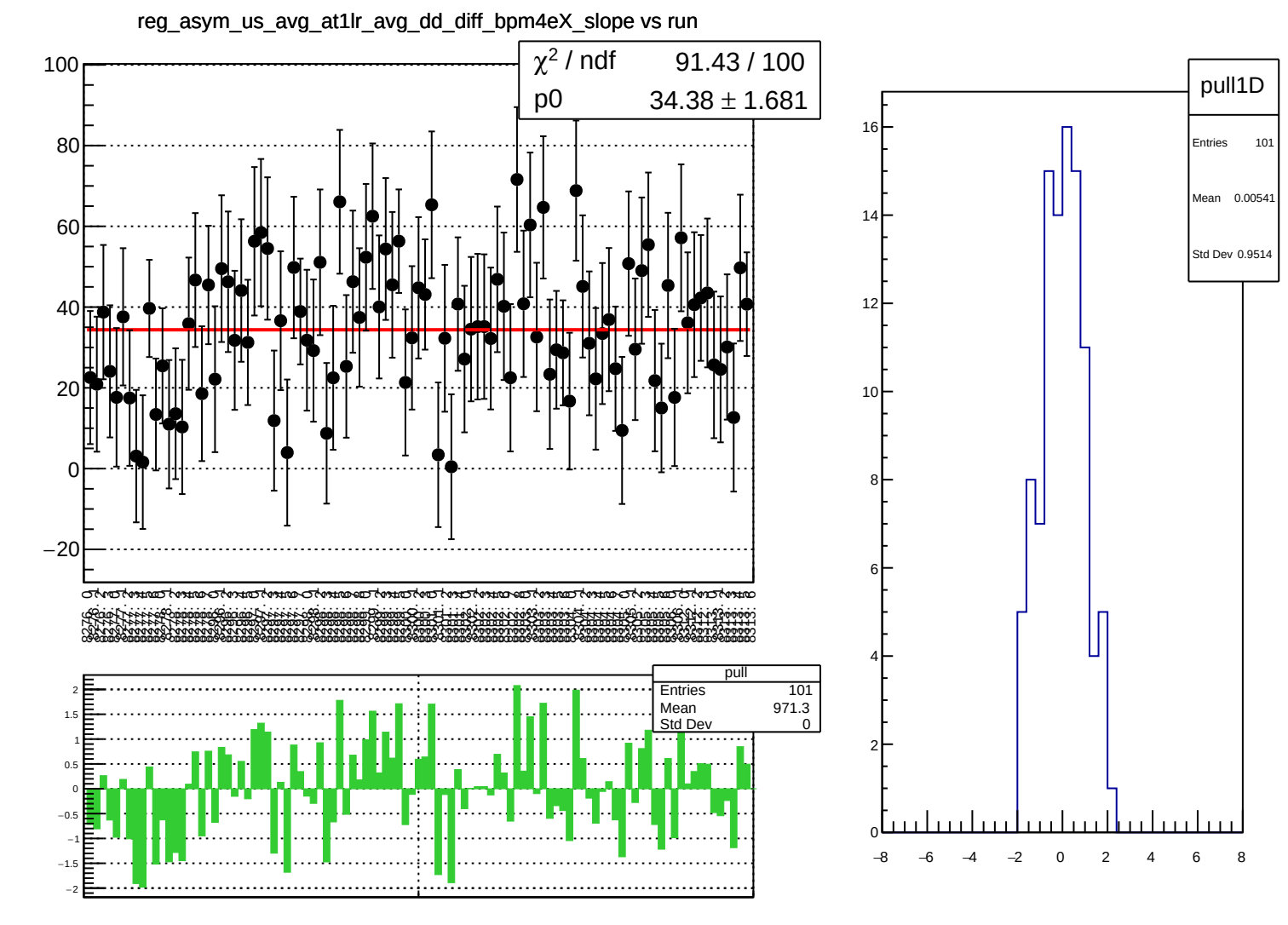

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 40.07 / 100
p0 12.58 ± 5.682
150
100
50
0
−50
−100
−150
pull
Entries 101
Mean −368.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 101
Mean 0.001548
Std Dev 0.6298
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

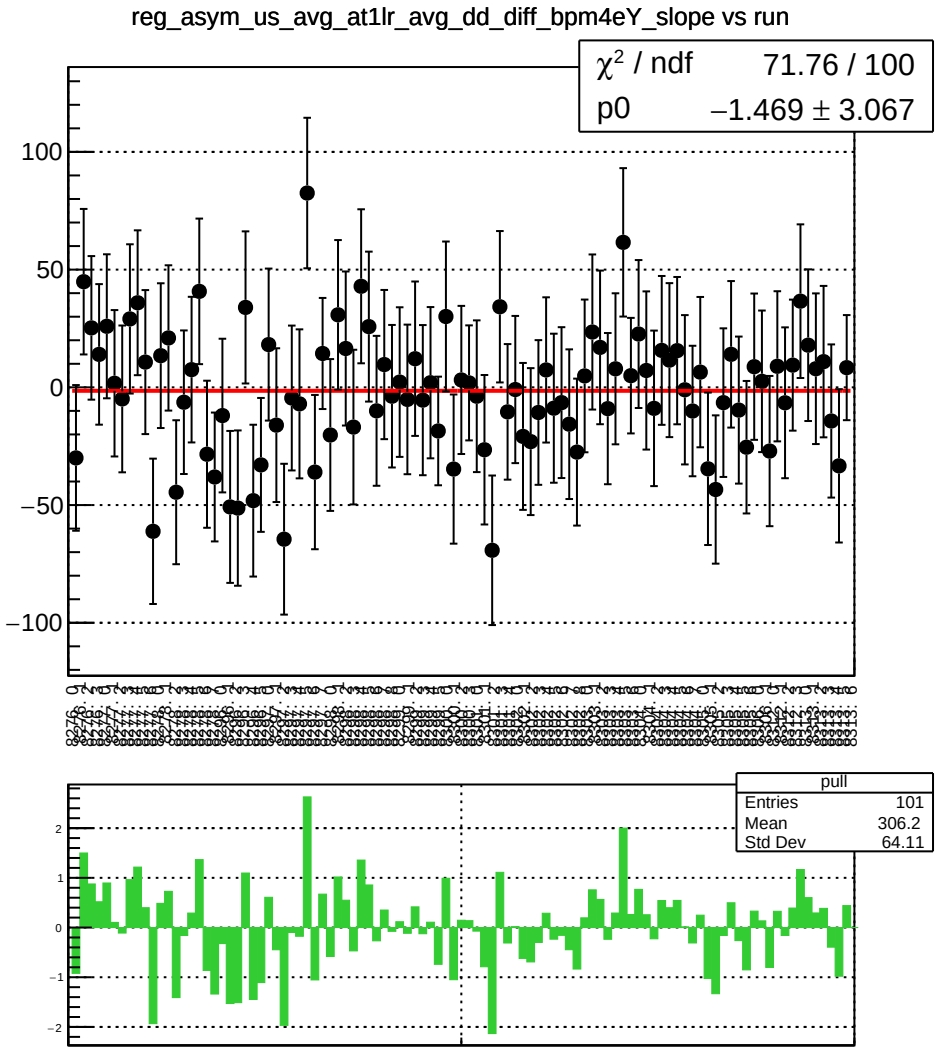

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 303.5 / 100
p0 −69.83 ± 0.3014
pull
Entries 101
Mean −141.4
Std Dev 0
pull1D
Entries 101
Mean −0.1858
Std Dev 1.723

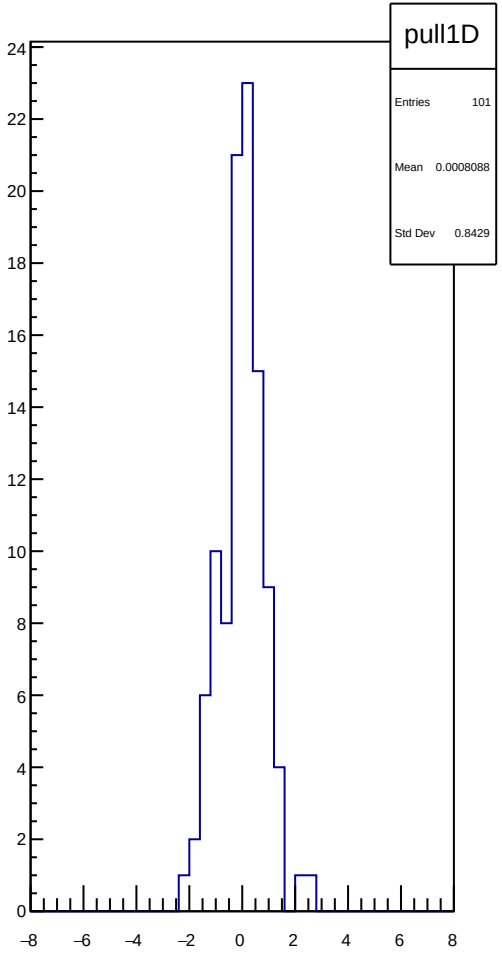

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 103.1 / 100
p0 −26.03 ± 1.503
pull
Entries 101
Mean 535.8
Std Dev 0

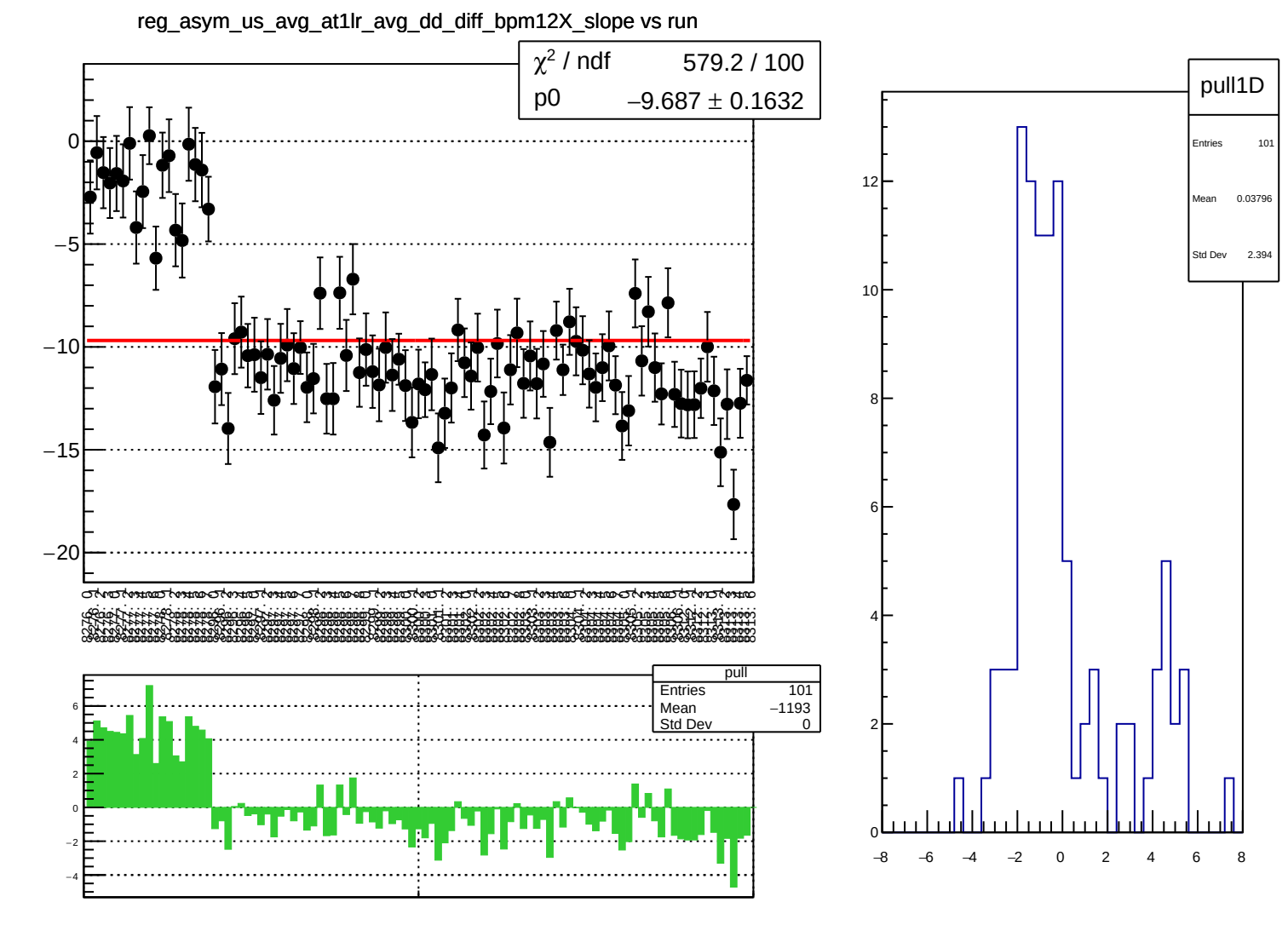

pull1D
Entries 101
Mean −0.013
Std Dev 1.01

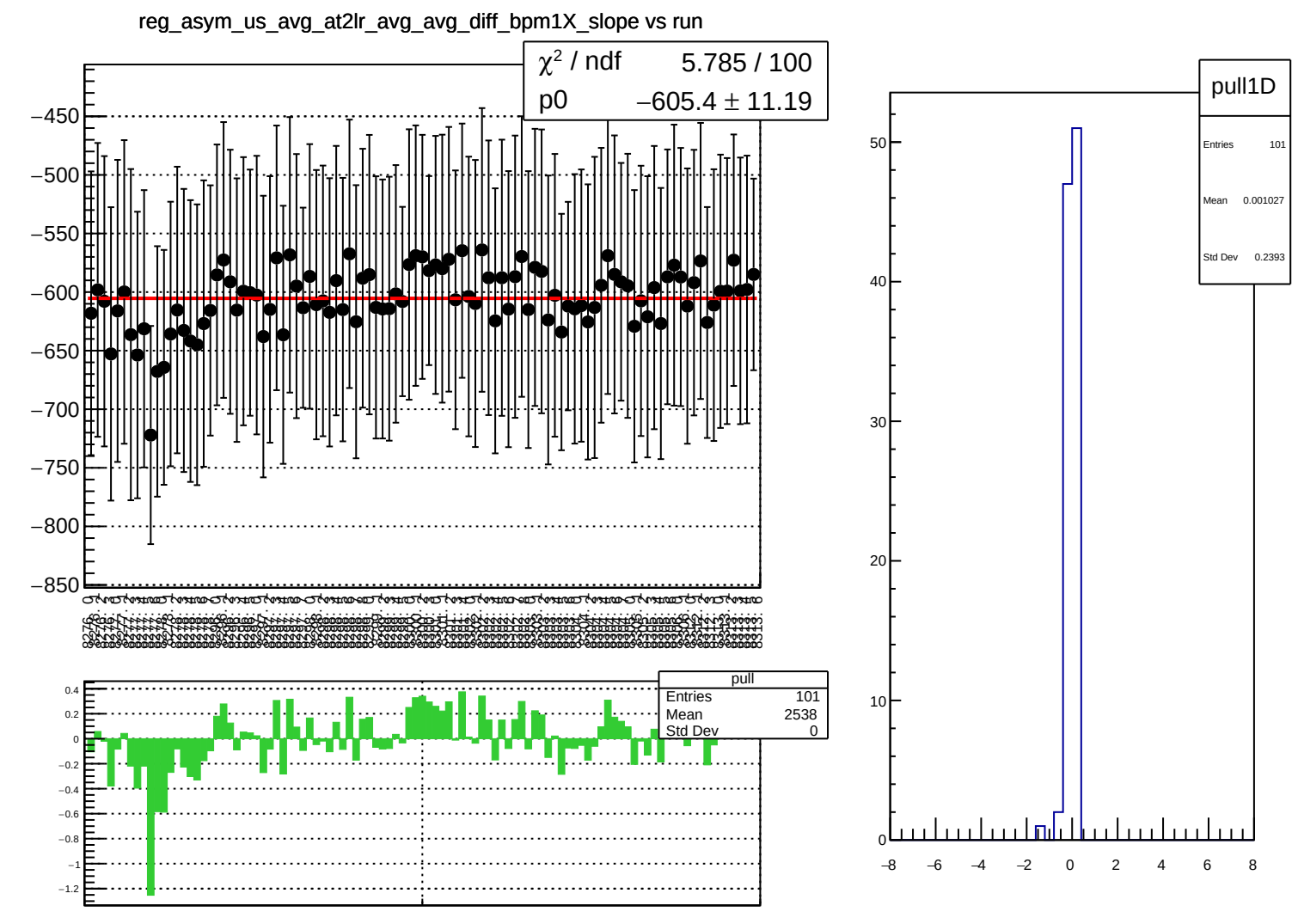

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 69.05 / 100
p0 17.4 ± 2.951
pull
Entries 101
Mean −520.8
Std Dev 0
pull1D
Entries 101
Mean −0.001681
Std Dev 0.8269

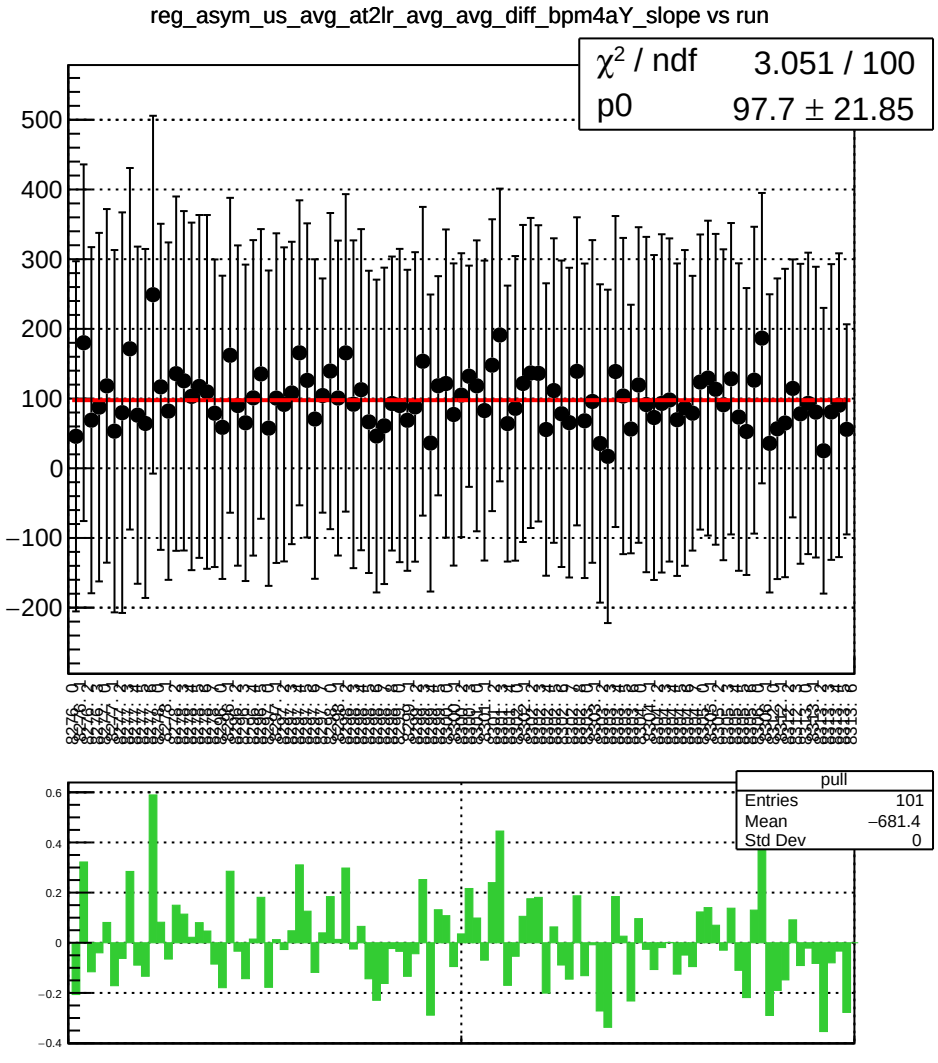

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 91.43 / 100
p0 34.38 ± 1.681
pull
Entries 101
Mean 971.3
Std Dev 0
pull1D
Entries 101
Mean 0.00541
Std Dev 0.9514

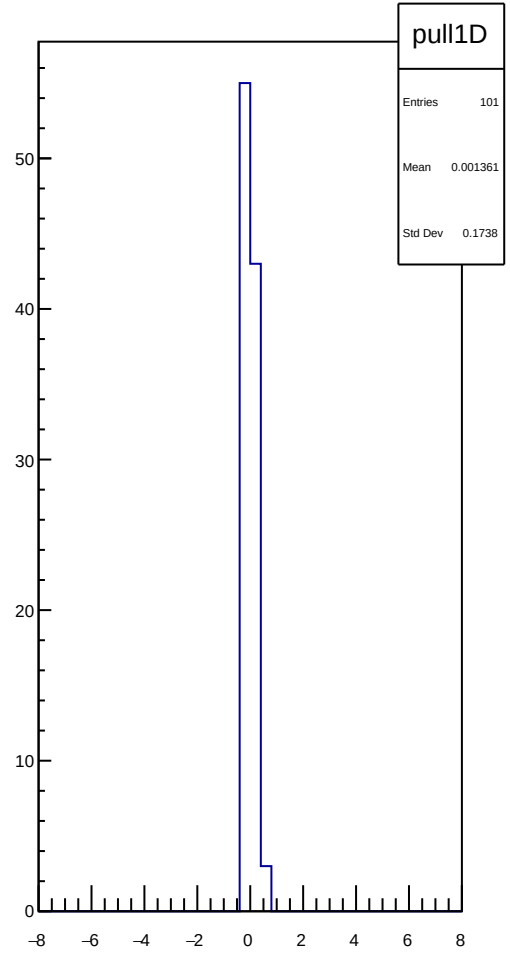

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 71.76 / 100
p0 −1.469 ± 3.067
100
50
0
−50
−100
pull
Entries 101
Mean 306.2
Std Dev 64.11
2
1
0
−1
−2

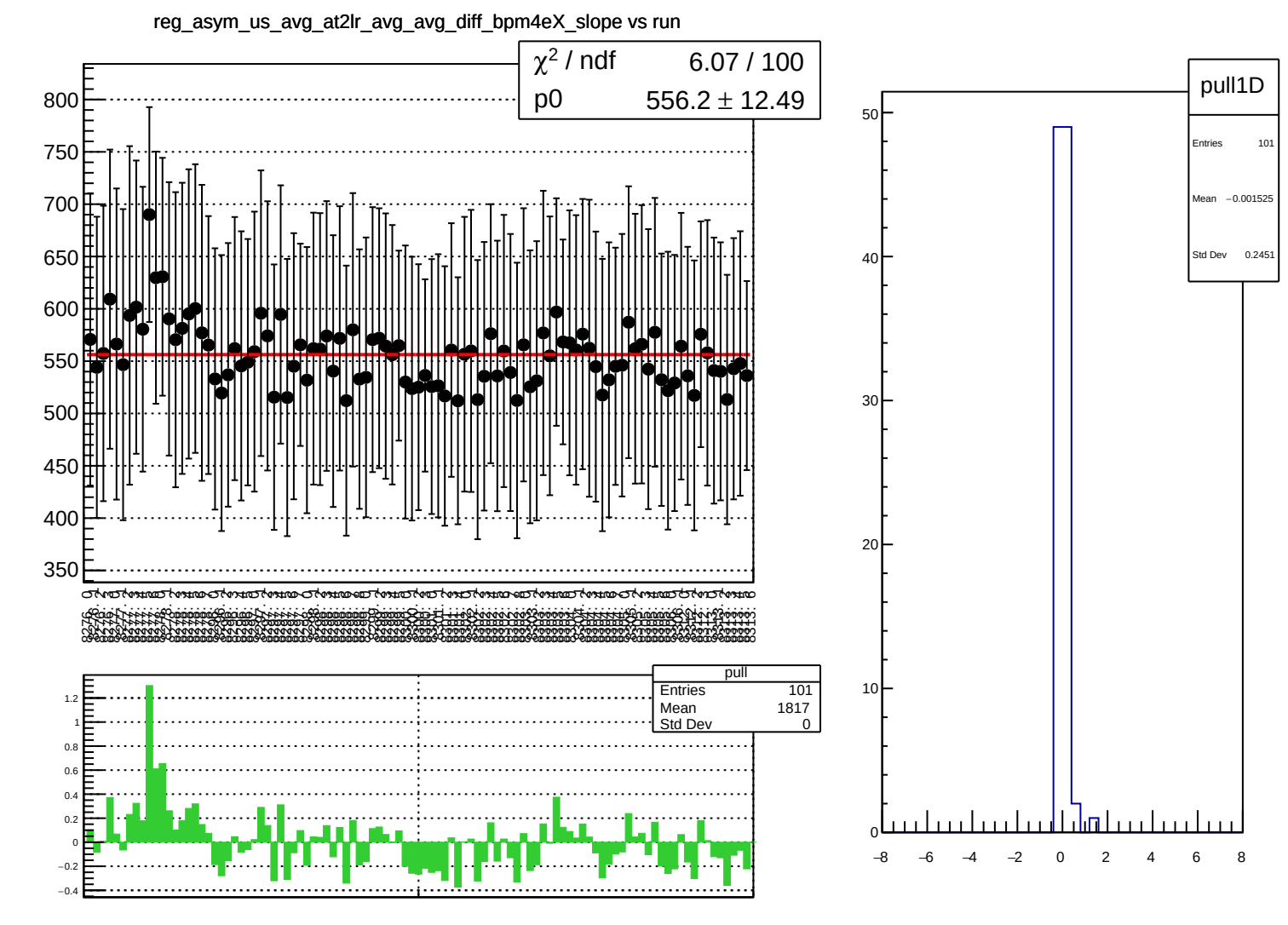

pull1D
Entries 101
Mean 0.0008088
Std Dev 0.8429
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

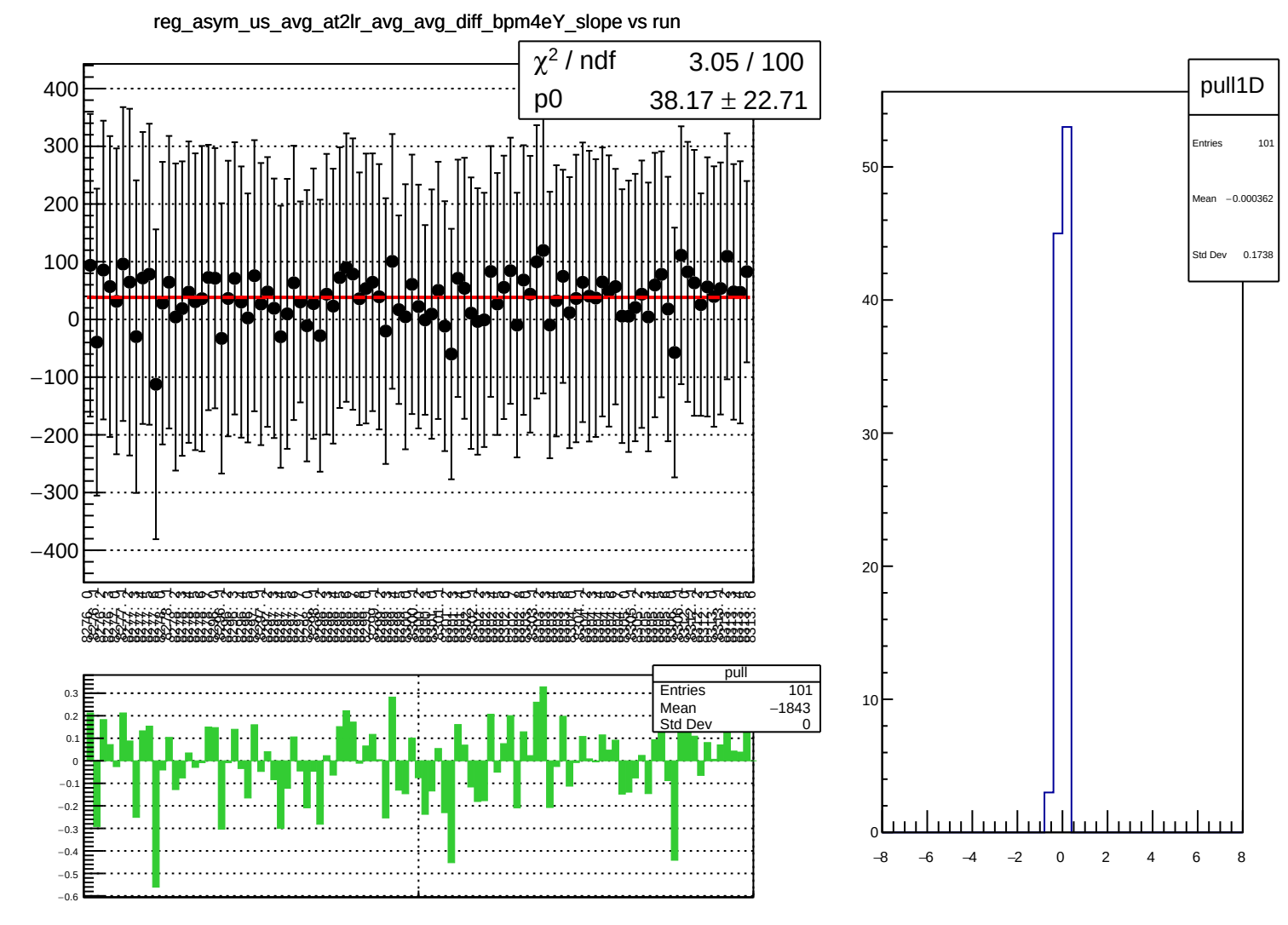

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 579.2 / 100
p0 −9.687 ± 0.1632
0
−5
−10
−15
−20
pull
Entries 101
Mean −1193
Std Dev 0
6
4
2
0
−2
−4
pull1D
Entries 101
Mean 0.03796
Std Dev 2.394
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

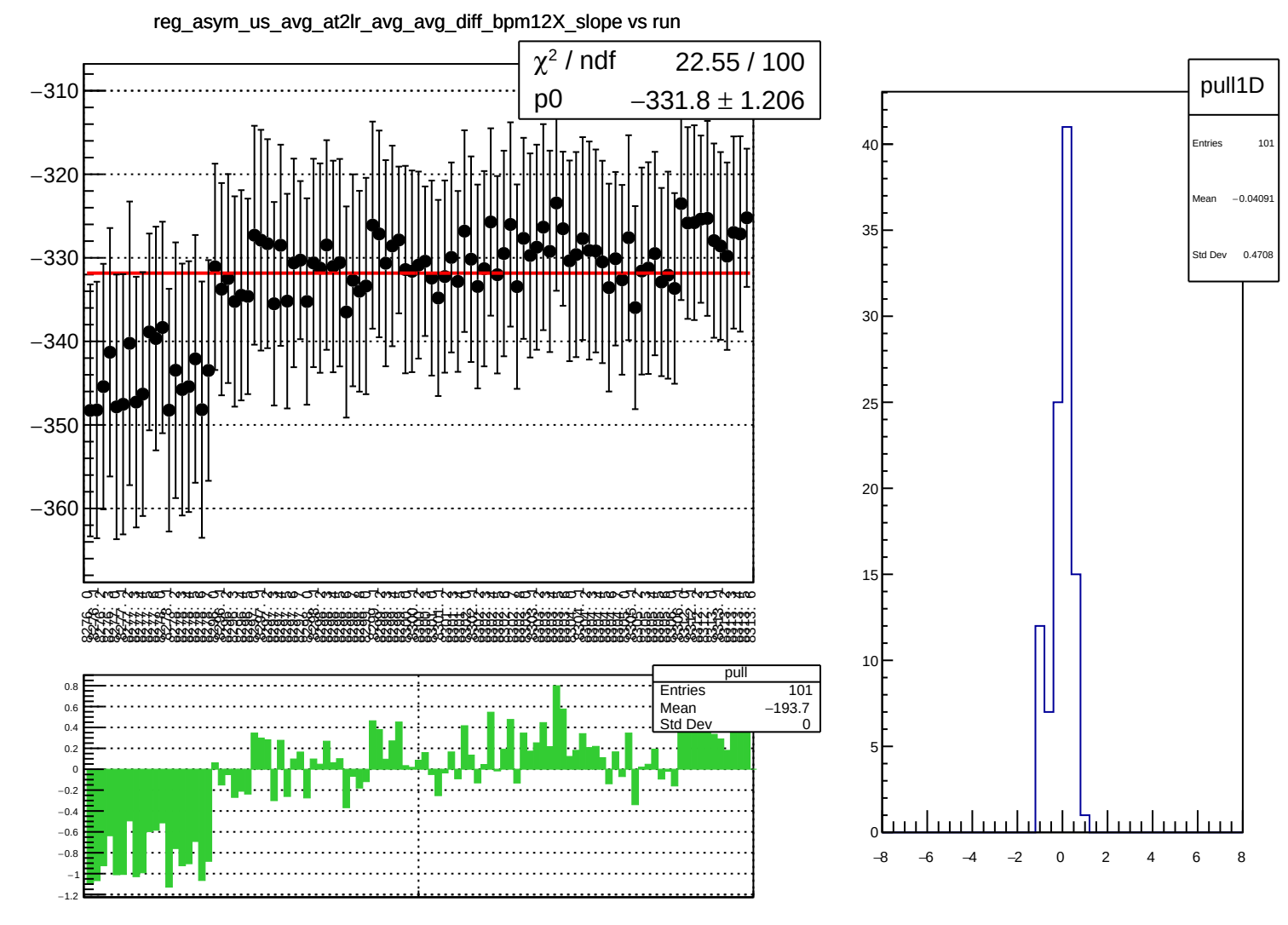

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 5.785 / 100
p0 −605.4 ± 11.19
−450
−500
−550
−600
−650
−700
−750
−800
−850
pull
Entries 101
Mean 2538
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 101
Mean 0.001027
Std Dev 0.2393
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

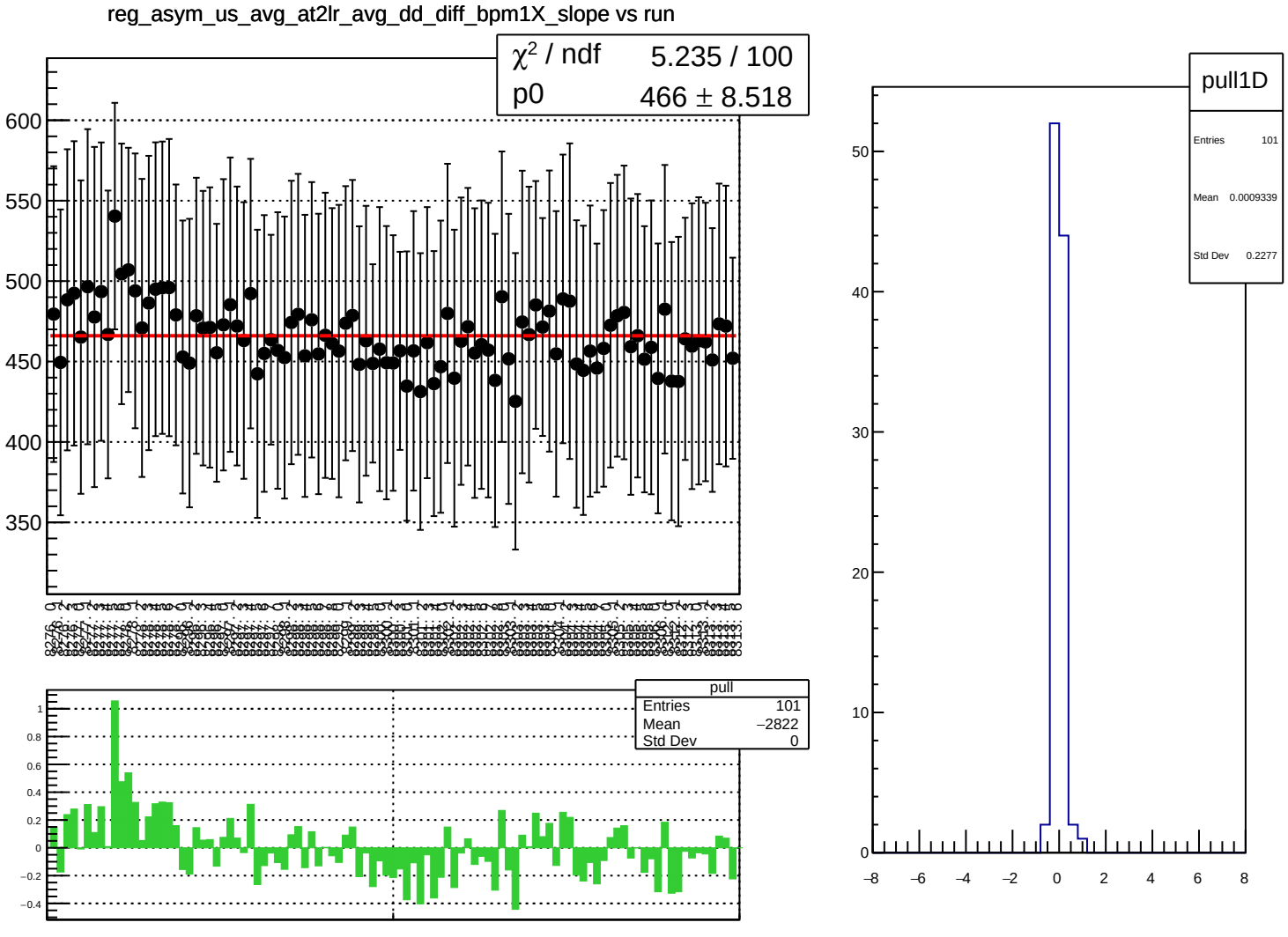

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.051 / 100
p0 97.7 ± 21.85
pull
Entries 101
Mean −681.4
Std Dev 0

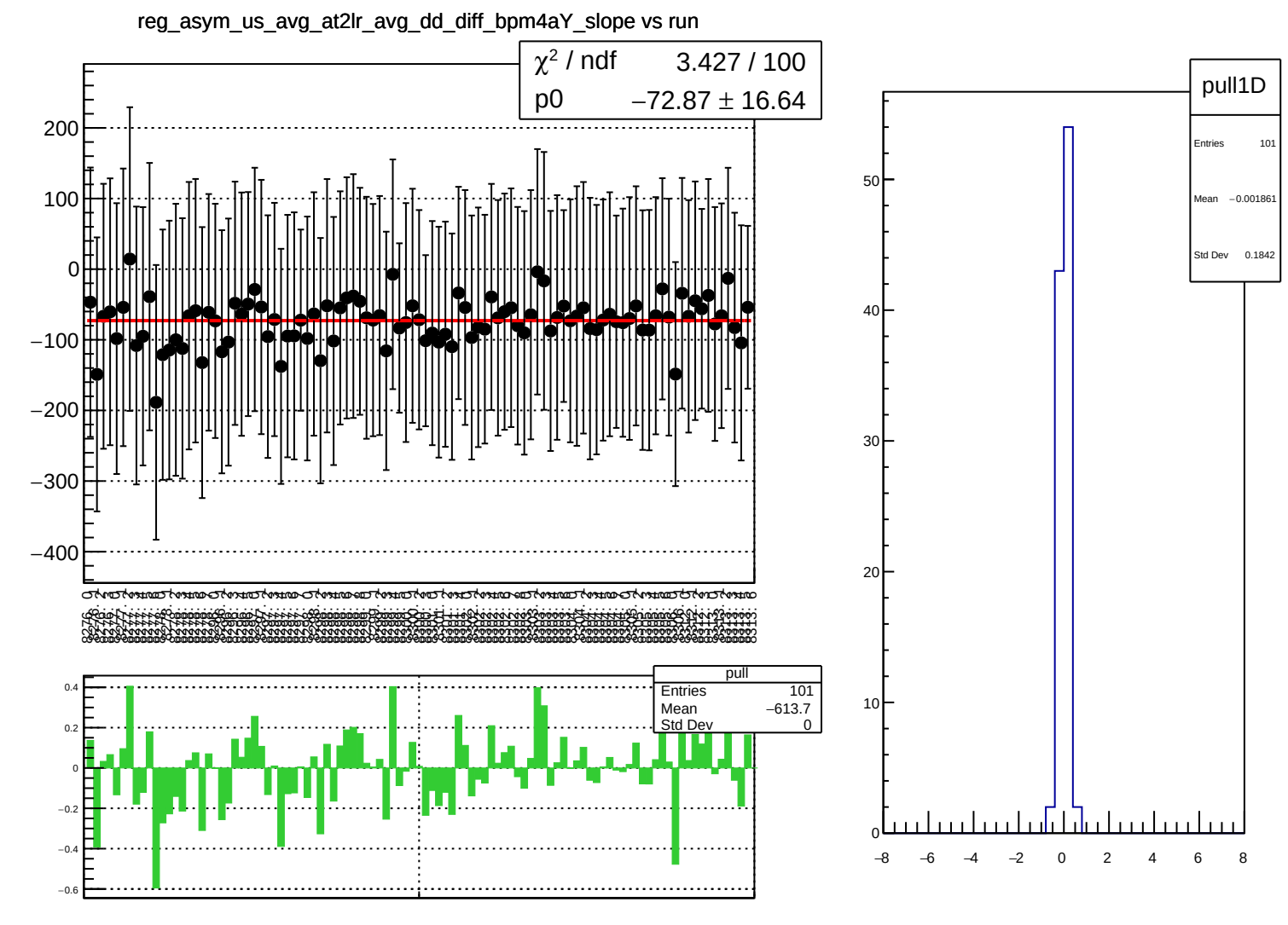

pull1D
Entries 101
Mean 0.001361
Std Dev 0.1738

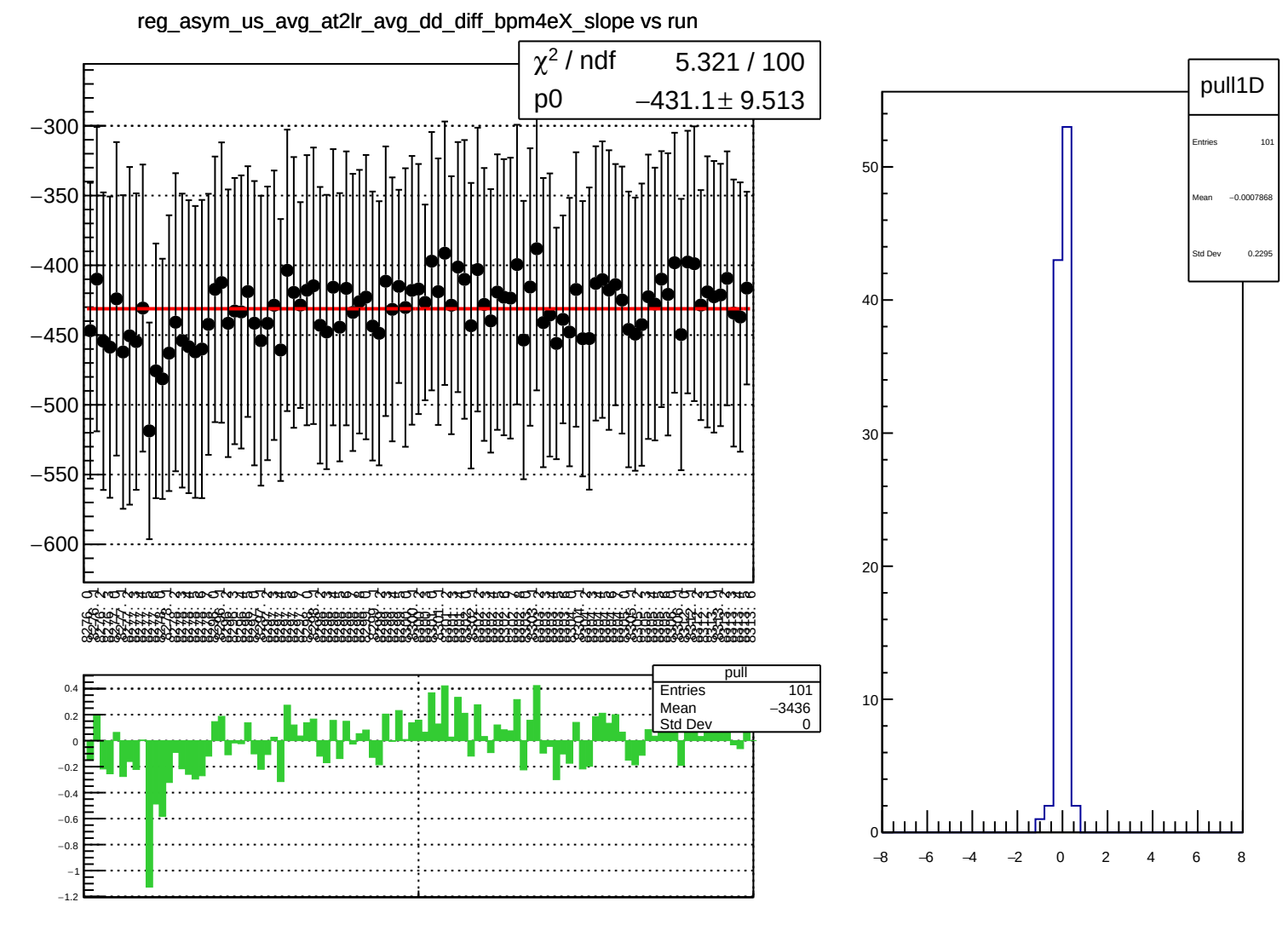

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.07 / 100
p0 556.2 ± 12.49
pull
Entries 101
Mean 1817
Std Dev 0
pull1D
Entries 101
Mean −0.001525
Std Dev 0.2451

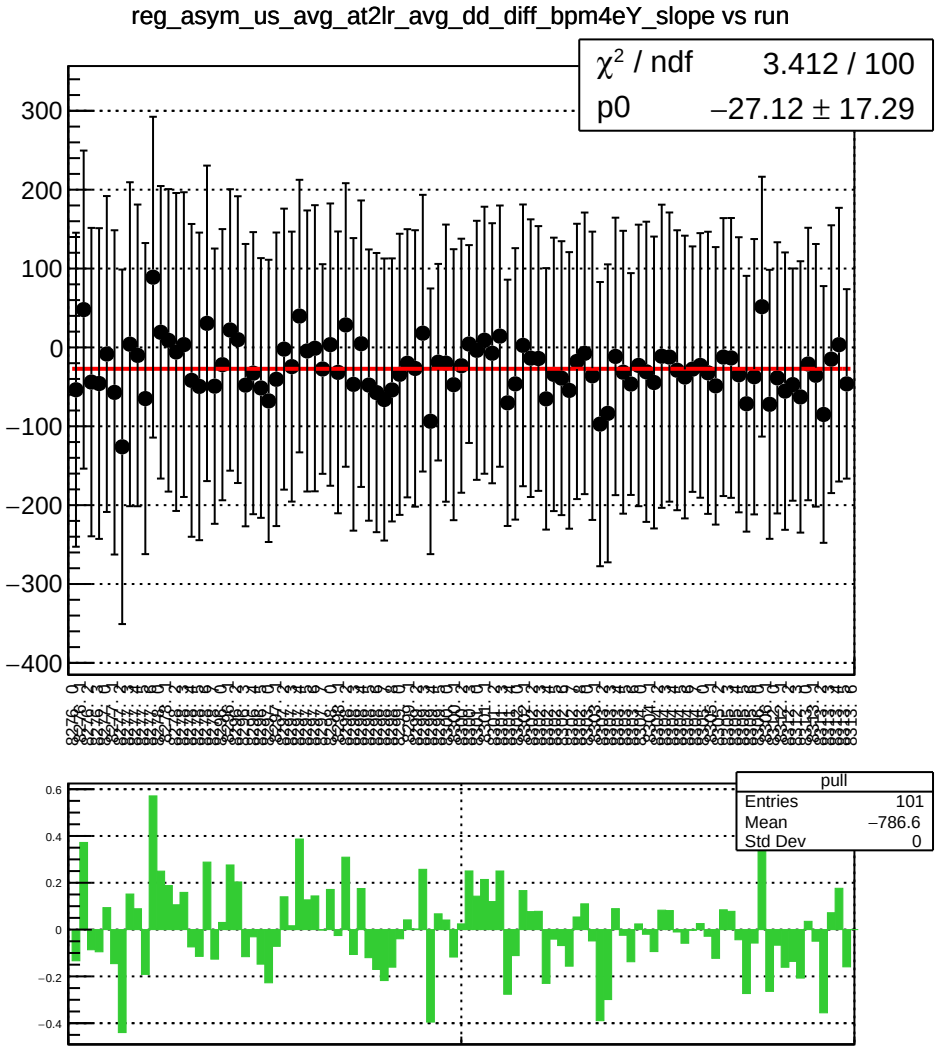

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.05 / 100
p0 38.17 ± 22.71
400
300
200
100
0
−100
−200
−300
−400
pull
Entries 101
Mean −1843
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
pull1D
Entries 101
Mean −0.000362
Std Dev 0.1738
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

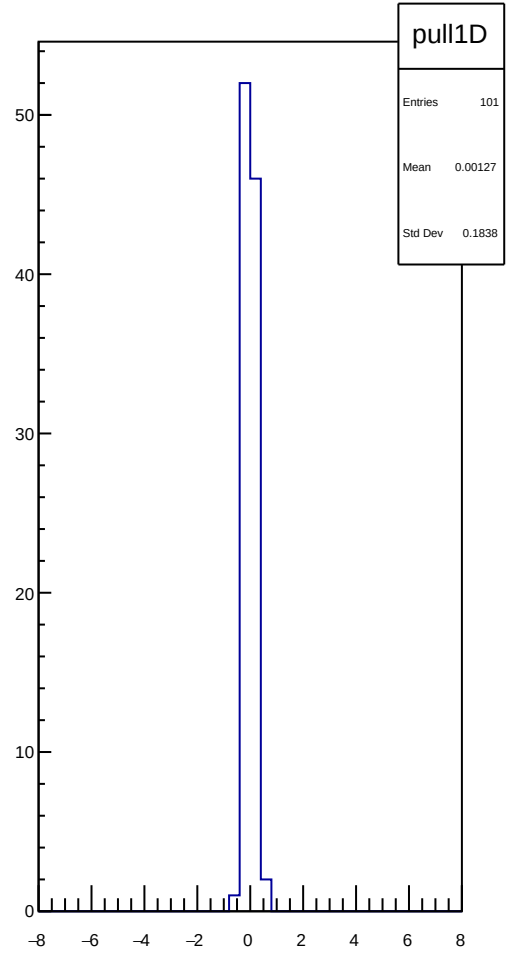

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 22.55 / 100
p0 −331.8 ± 1.206
−310
−320
−330
−340
−350
−360
pull
Entries 101
Mean −193.7
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 101
Mean −0.04091
Std Dev 0.4708
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

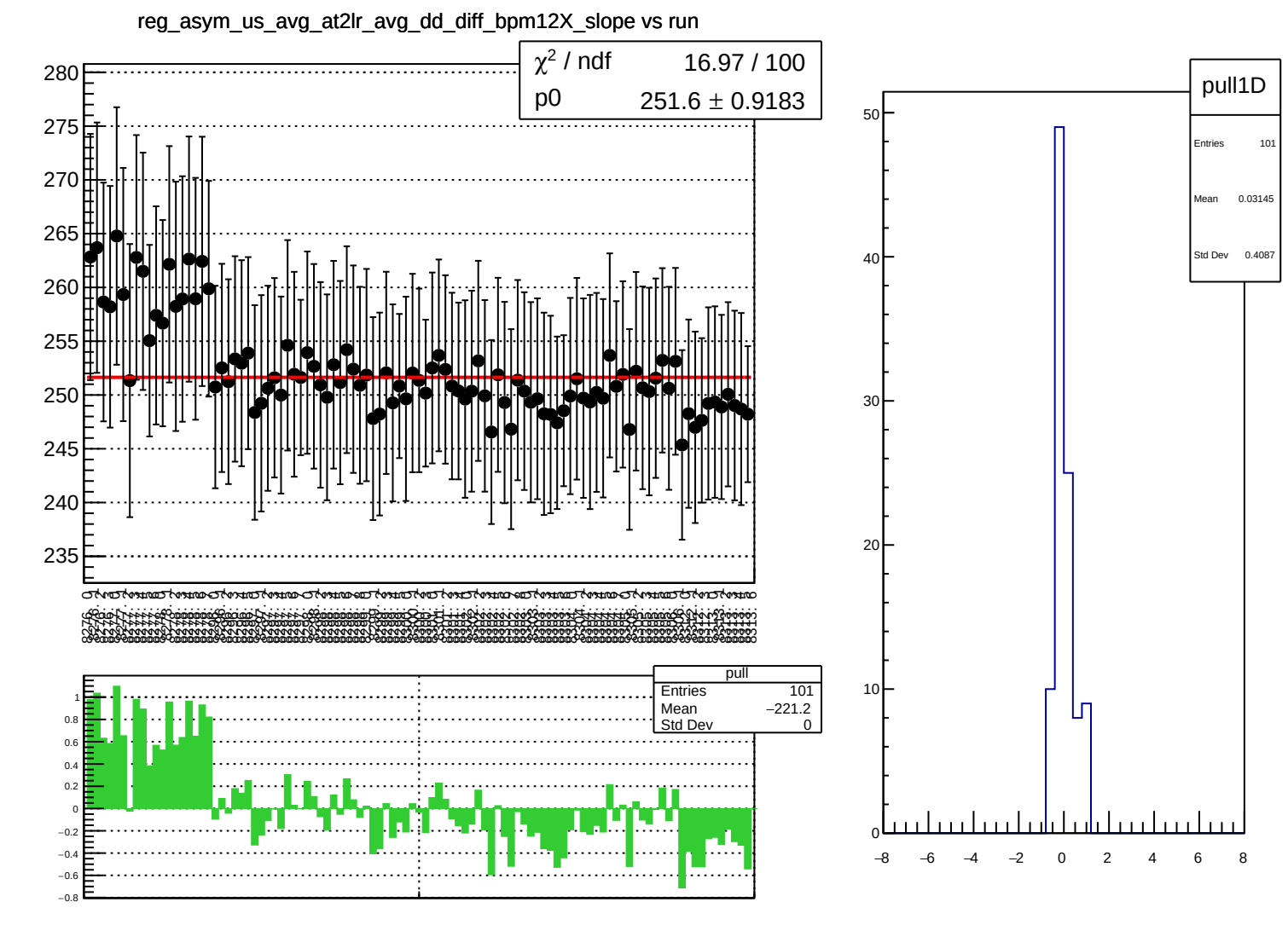

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 5.235 / 100
p0 466 ± 8.518
600
550
500
450
400
350
pull
Entries 101
Mean −2822
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 101
Mean 0.0009339
Std Dev 0.2277
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

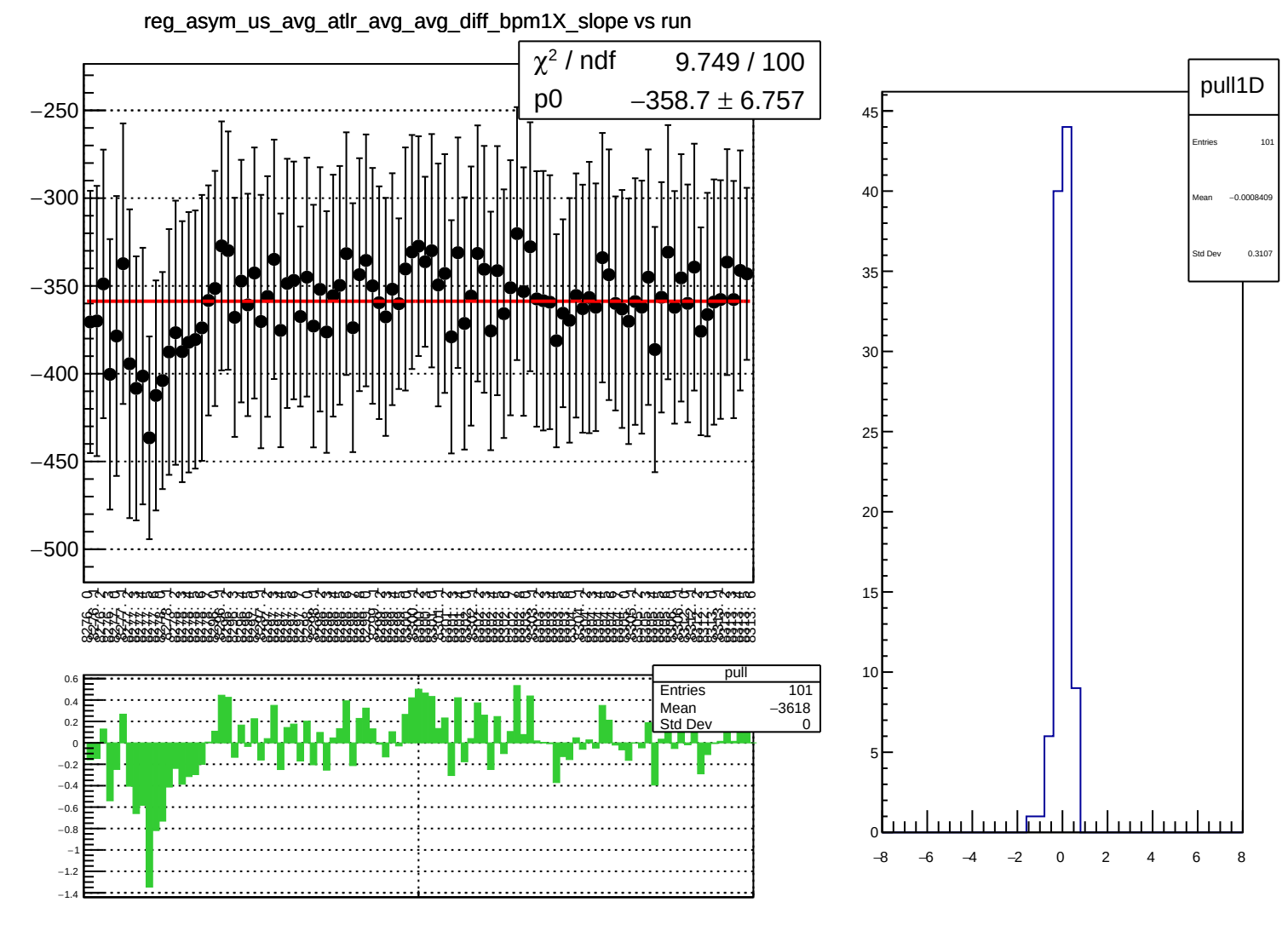

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.427 / 100
p0 −72.87 ± 16.64
200
100
0
−100
−200
−300
−400
pull
Entries 101
Mean −613.7
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 101
Mean −0.001861
Std Dev 0.1842
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

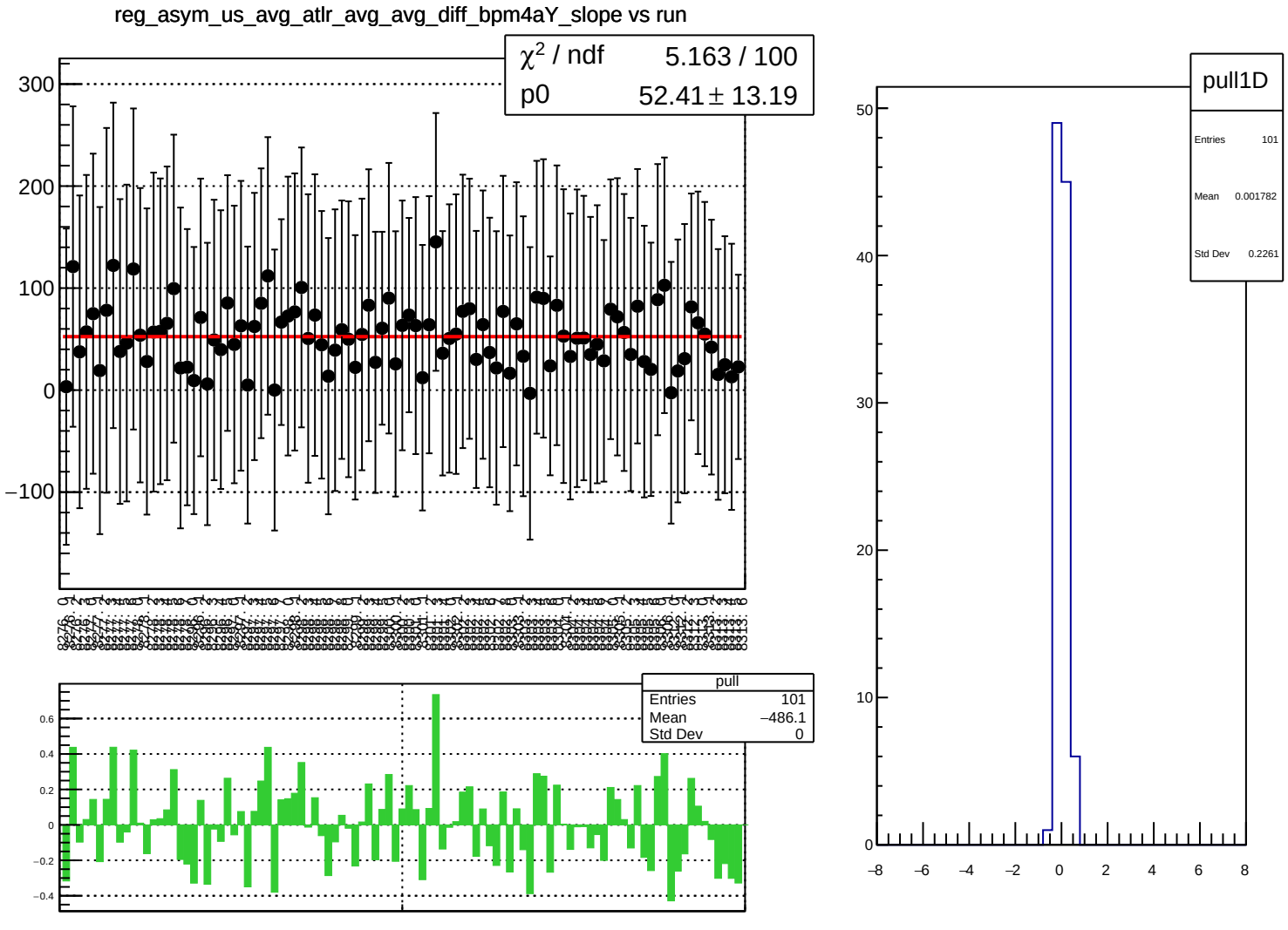

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.321 / 100
p0 −431.1 ± 9.513
−300
−350
−400
−450
−500
−550
−600
pull
Entries 101
Mean −3436
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 101
Mean −0.0007868
Std Dev 0.2295
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

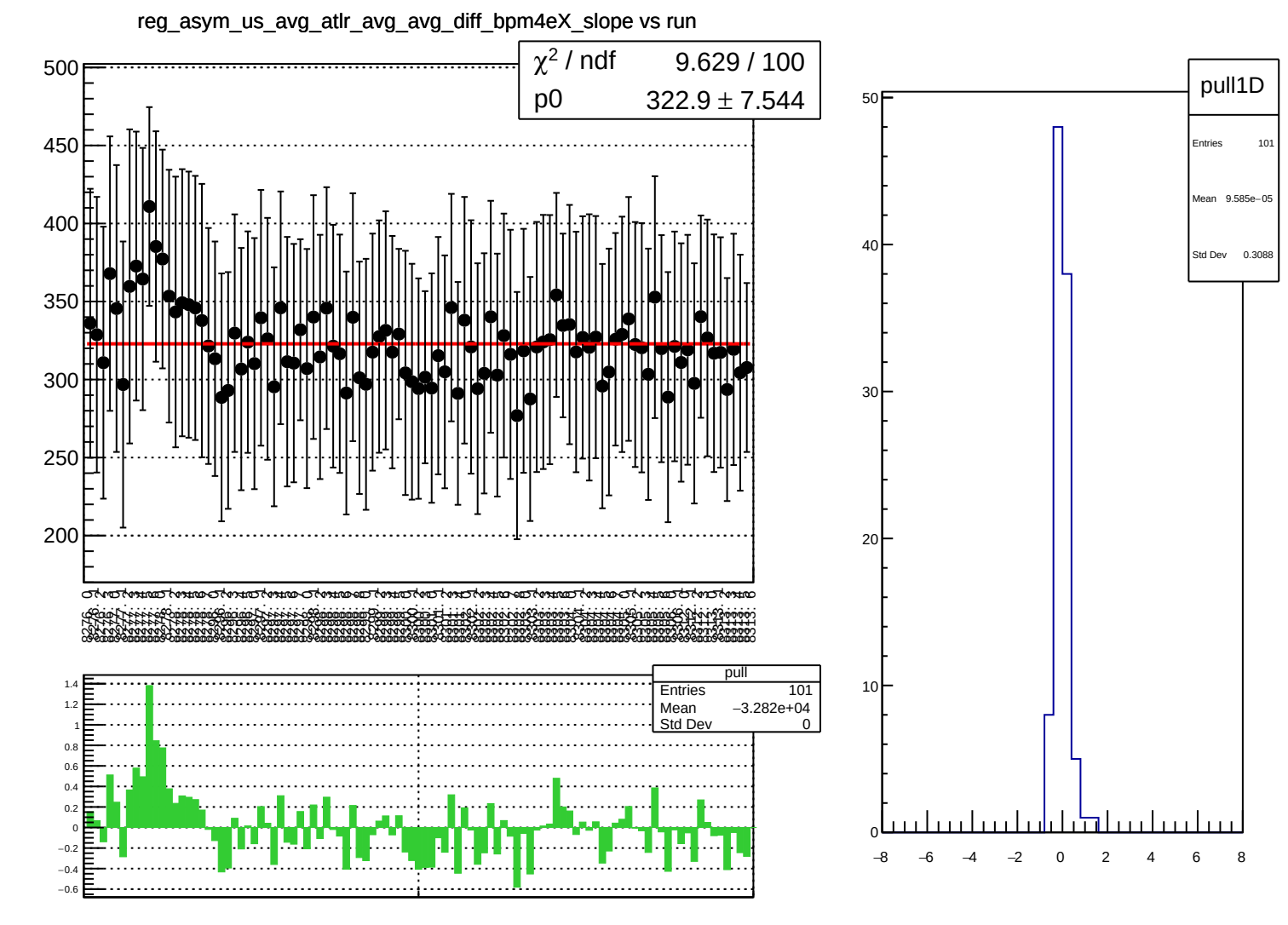

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.412 / 100
p0 −27.12 ± 17.29
pull
Entries 101
Mean −786.6
Std Dev 0

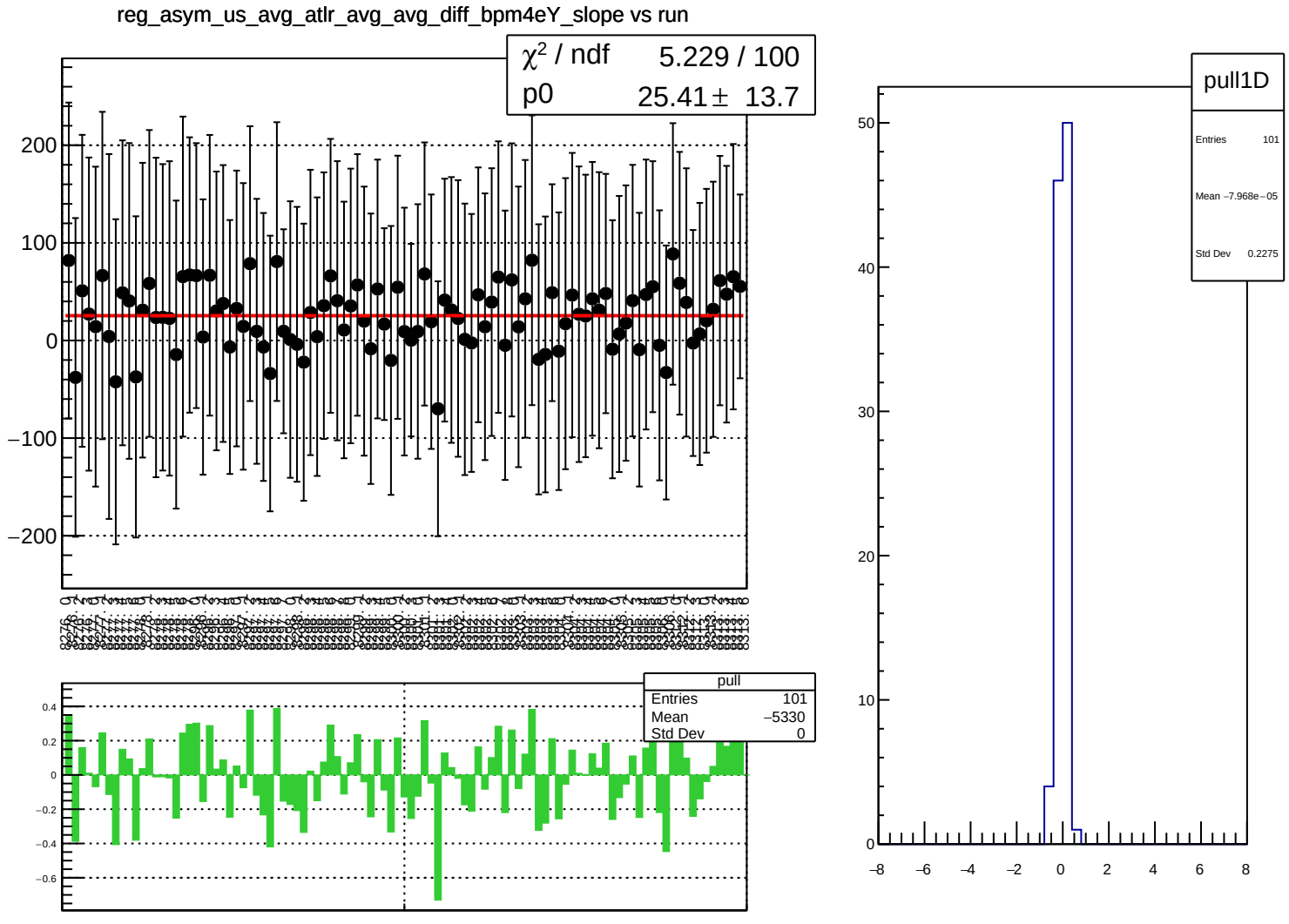

pull1D
Entries 101
Mean 0.00127
Std Dev 0.1838

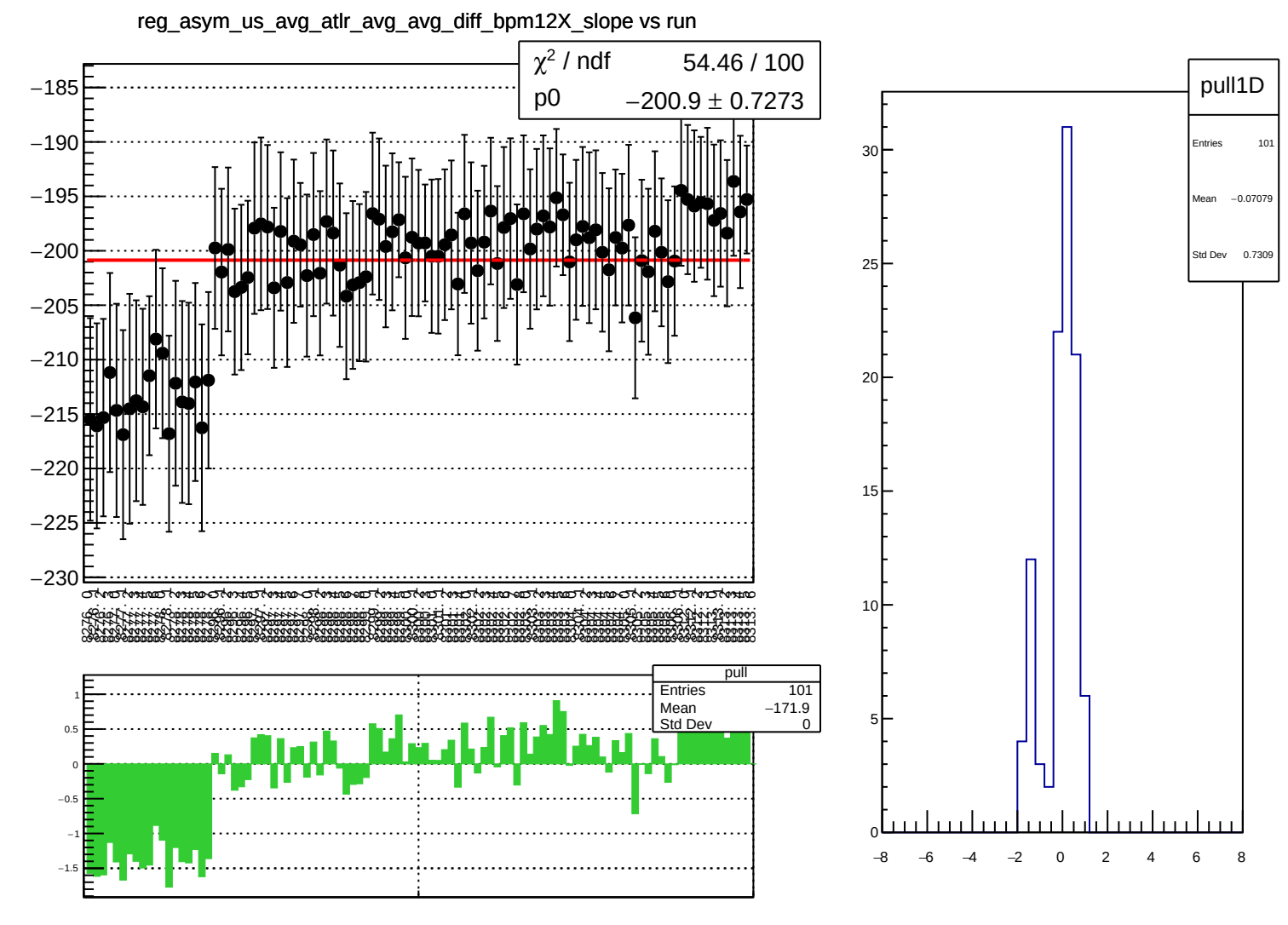

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 16.97 / 100
p0 251.6 ± 0.9183
pull
Entries 101
Mean −221.2
Std Dev 0
pull1D
Entries 101
Mean 0.03145
Std Dev 0.4087

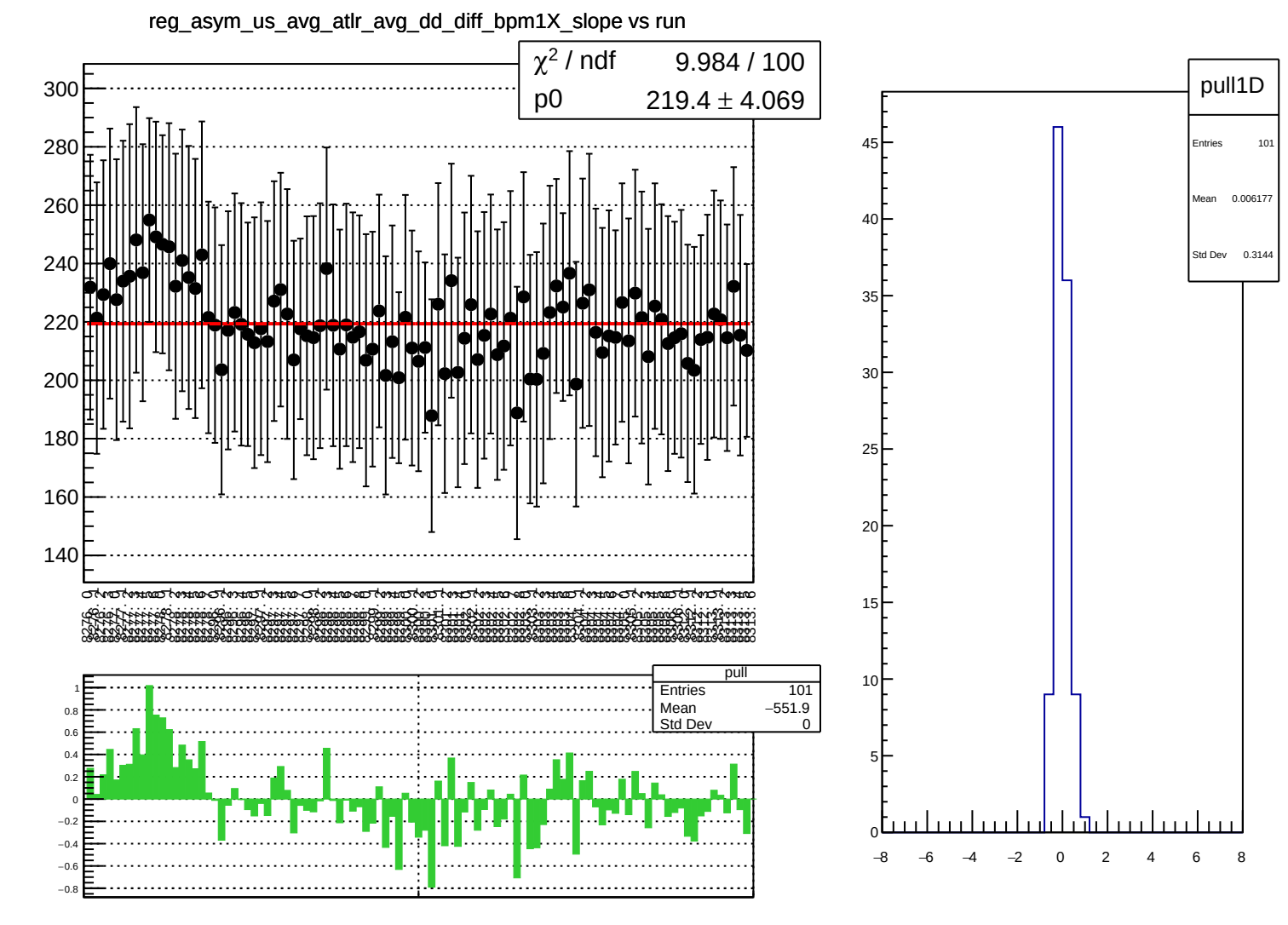

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 9.749 / 100
p0 −358.7 ± 6.757
pull
Entries 101
Mean −3618
Std Dev 0
pull1D
Entries 101
Mean −0.0008409
Std Dev 0.3107

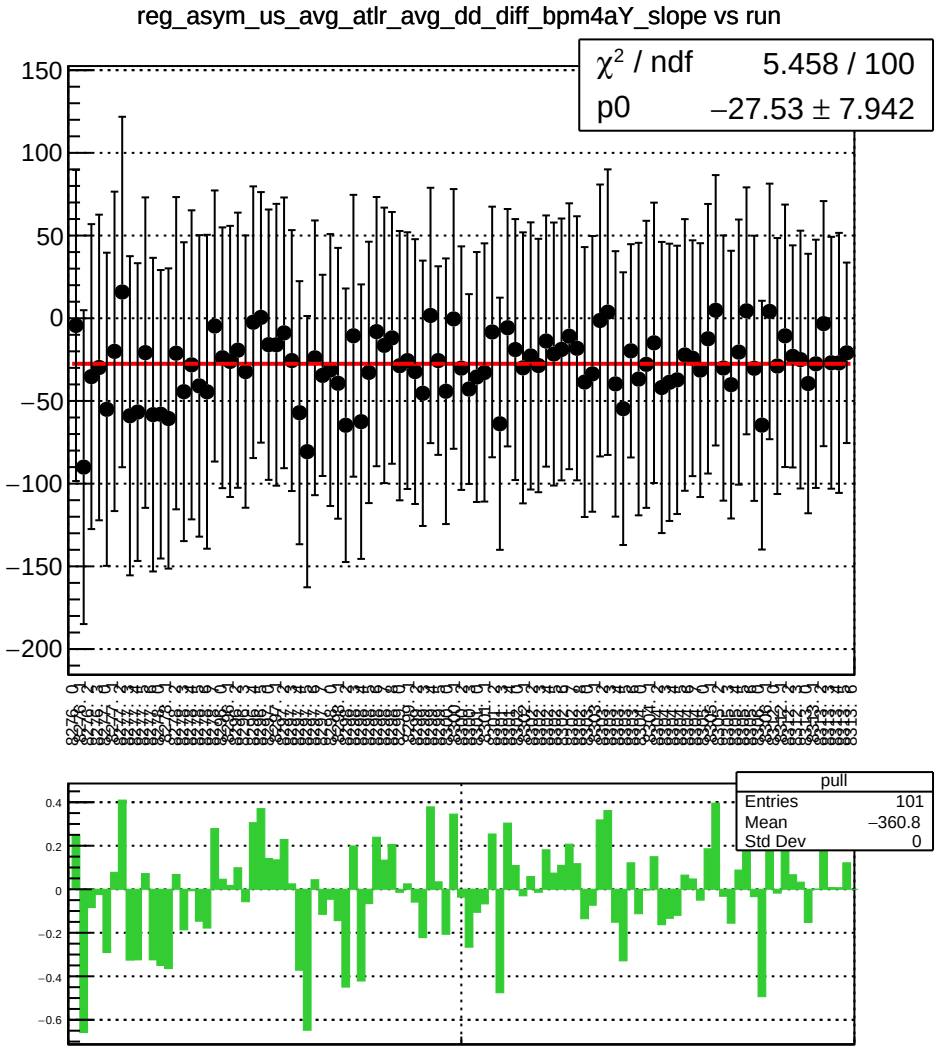

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.163 / 100
p0 52.41 ± 13.19
300
200
100
0
−100
pull
Entries 101
Mean −486.1
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 101
Mean 0.001782
Std Dev 0.2261
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

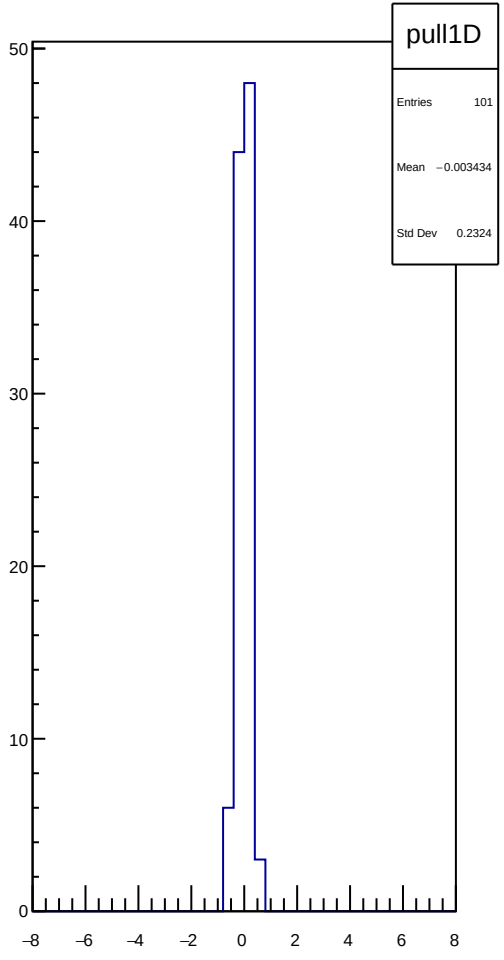

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.629 / 100
p0 322.9 ± 7.544
pull
Entries 101
Mean −3.282e+04
Std Dev 0
pull1D
Entries 101
Mean 9.585e−05
Std Dev 0.3088

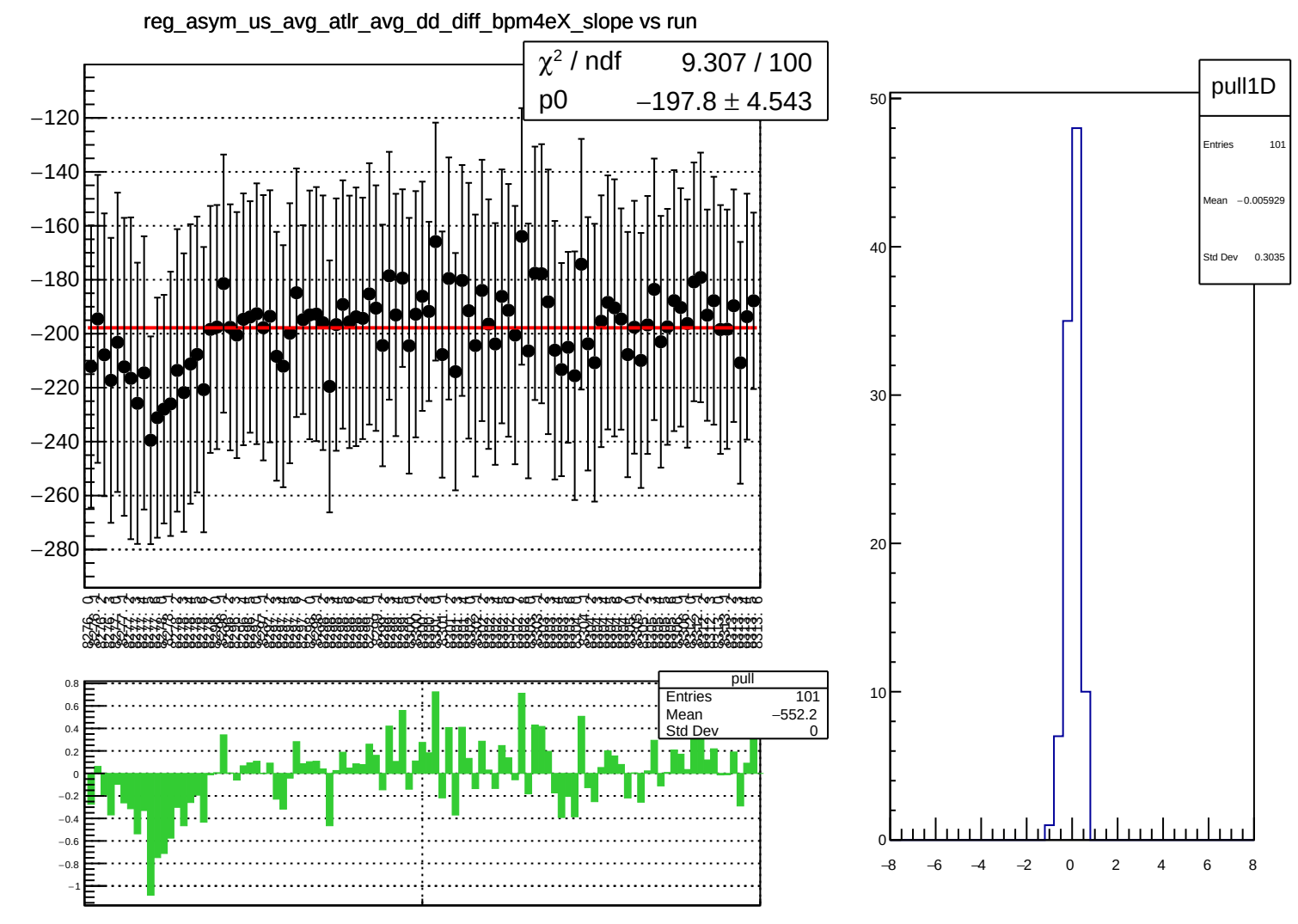

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.229 / 100
p0 25.41 ± 13.7
200
100
0
−100
−200
pull
Entries 101
Mean −5330
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 101
Mean −7.968e−05
Std Dev 0.2275
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

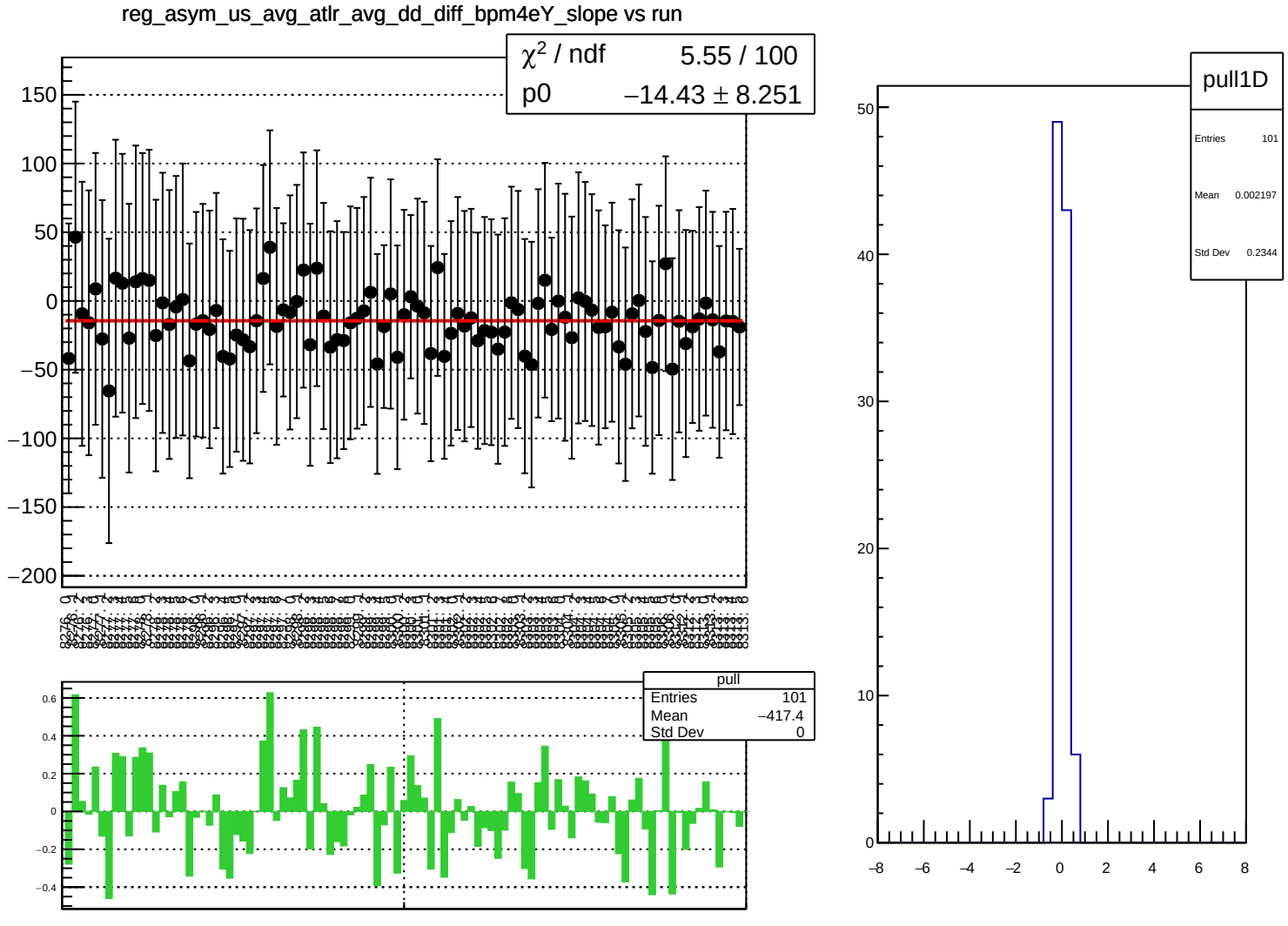

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 54.46 / 100
p0 −200.9 ± 0.7273
pull
Entries 101
Mean −171.9
Std Dev 0
pull1D
Entries 101
Mean −0.07079
Std Dev 0.7309

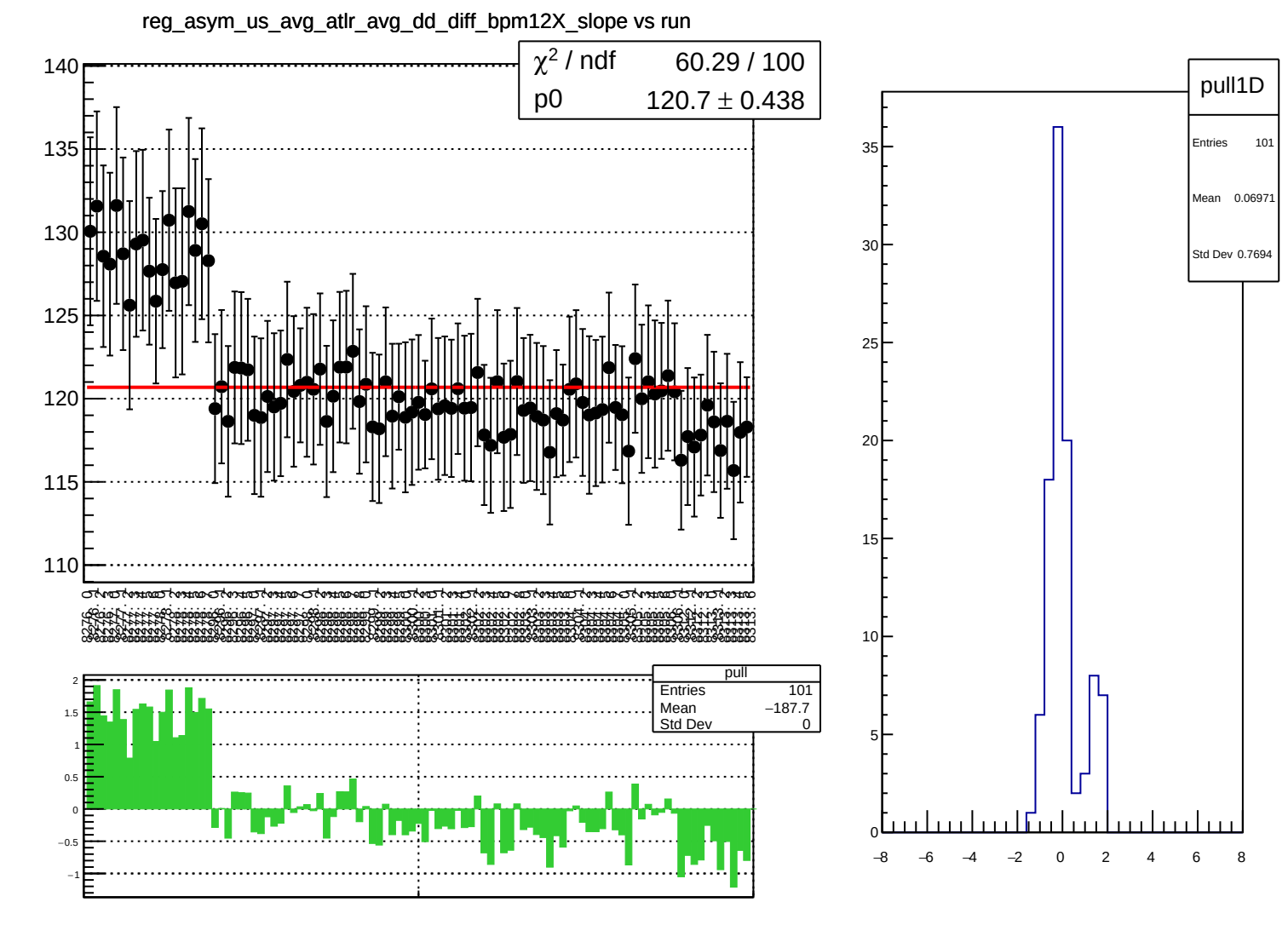

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 9.984 / 100
p0 219.4 ± 4.069
pull
Entries 101
Mean −551.9
Std Dev 0
pull1D
Entries 101
Mean 0.006177
Std Dev 0.3144

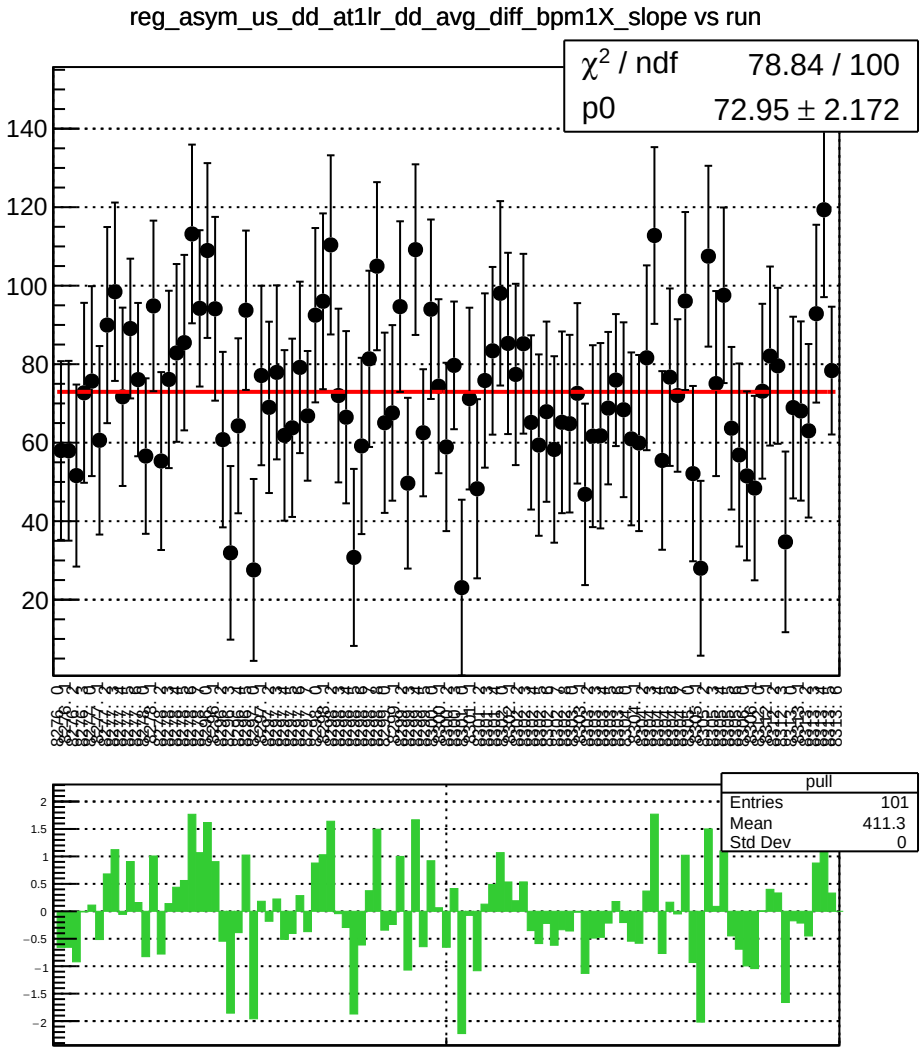

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.458 / 100
p0 −27.53 ± 7.942
150
100
50
0
−50
−100
−150
−200
pull
Entries 101
Mean −360.8
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6

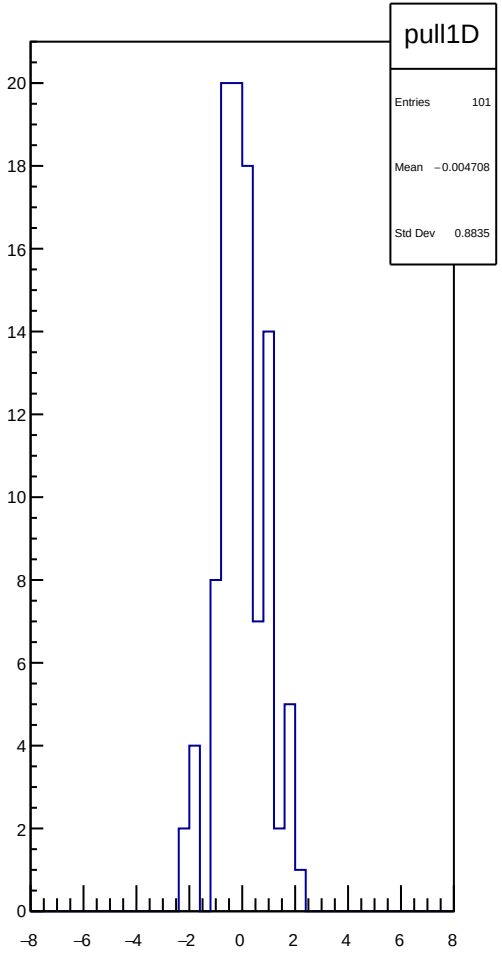

pull1D
Entries 101
Mean −0.003434
Std Dev 0.2324
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

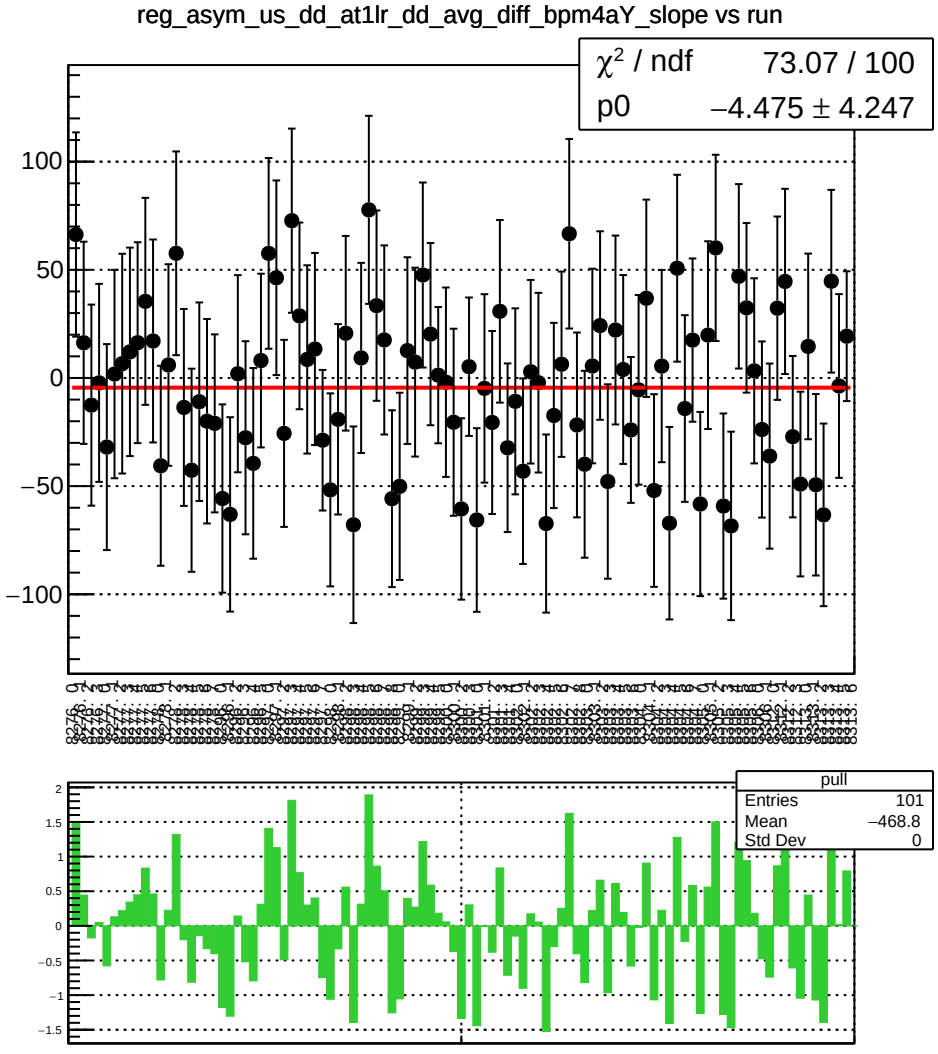

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.307 / 100
p0 −197.8 ± 4.543
pull
Entries 101
Mean −552.2
Std Dev 0
pull1D
Entries 101
Mean −0.005929
Std Dev 0.3035

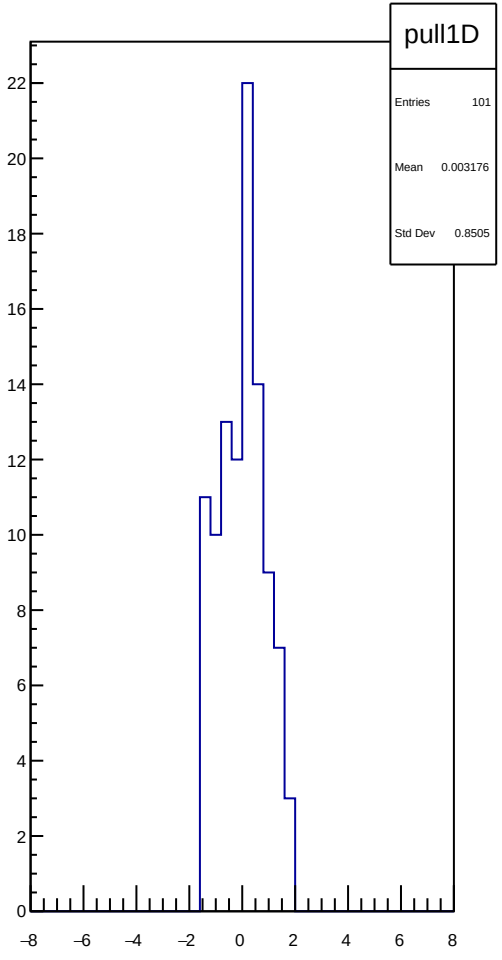

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.55 / 100
p0 −14.43 ± 8.251
150
100
50
0
−50
−100
−150
−200
pull
Entries 101
Mean −417.4
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 101
Mean 0.002197
Std Dev 0.2344
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

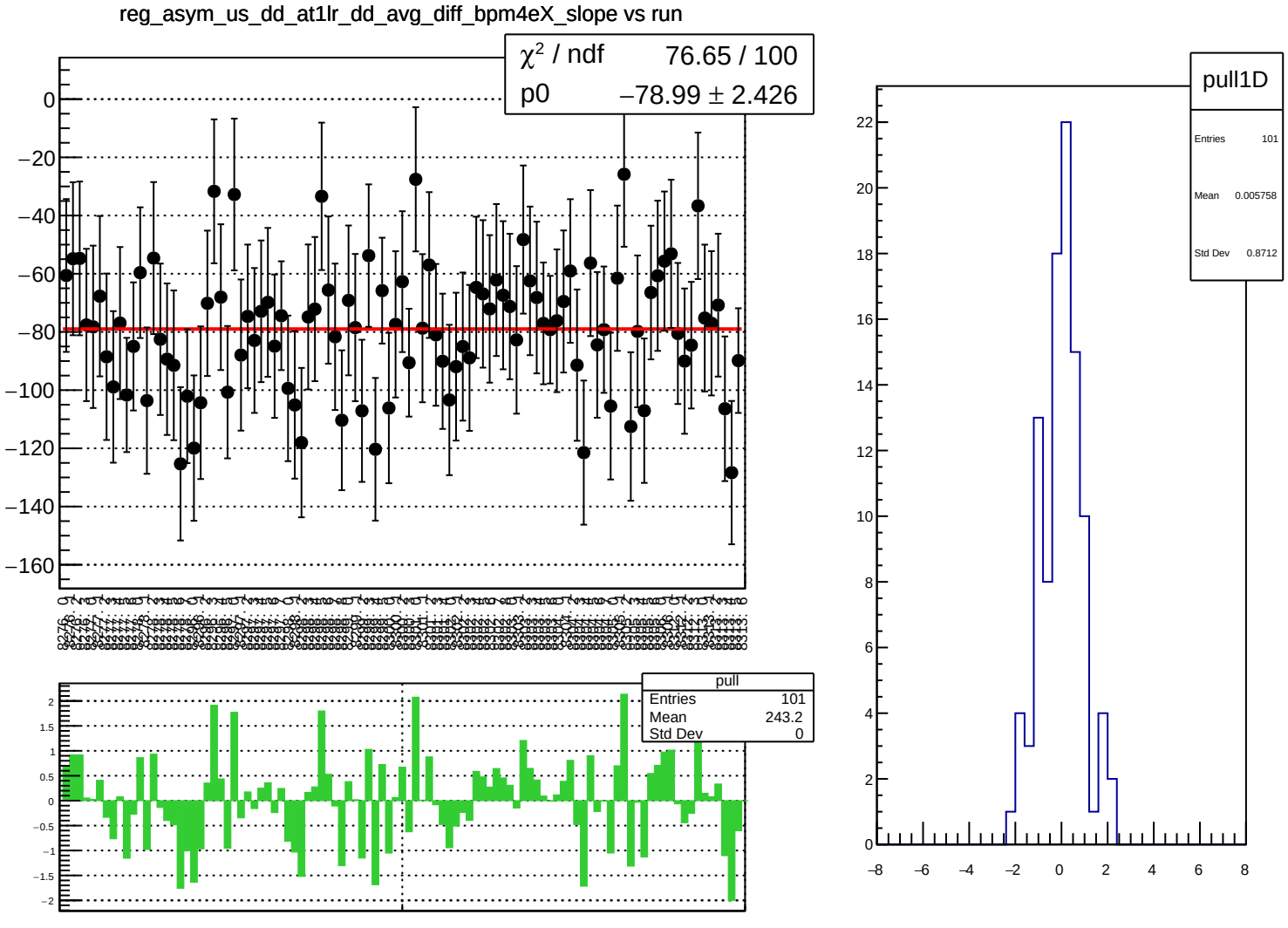

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 60.29 / 100
p0 120.7 ± 0.438
pull
Entries 101
Mean −187.7
Std Dev 0
pull1D
Entries 101
Mean 0.06971
Std Dev 0.7694

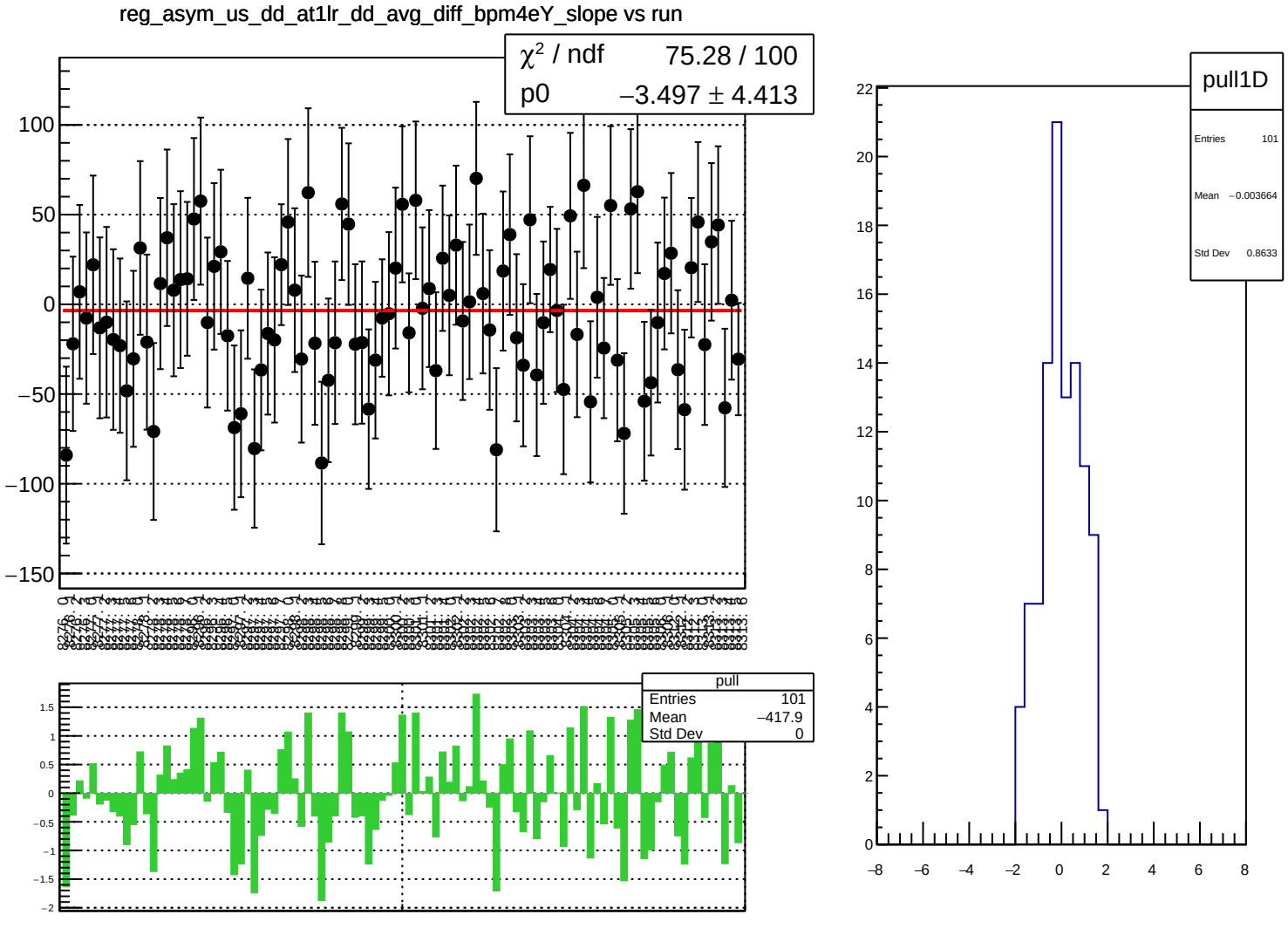

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 78.84 / 100
p0 72.95 ± 2.172
pull
Entries 101
Mean 411.3
Std Dev 0

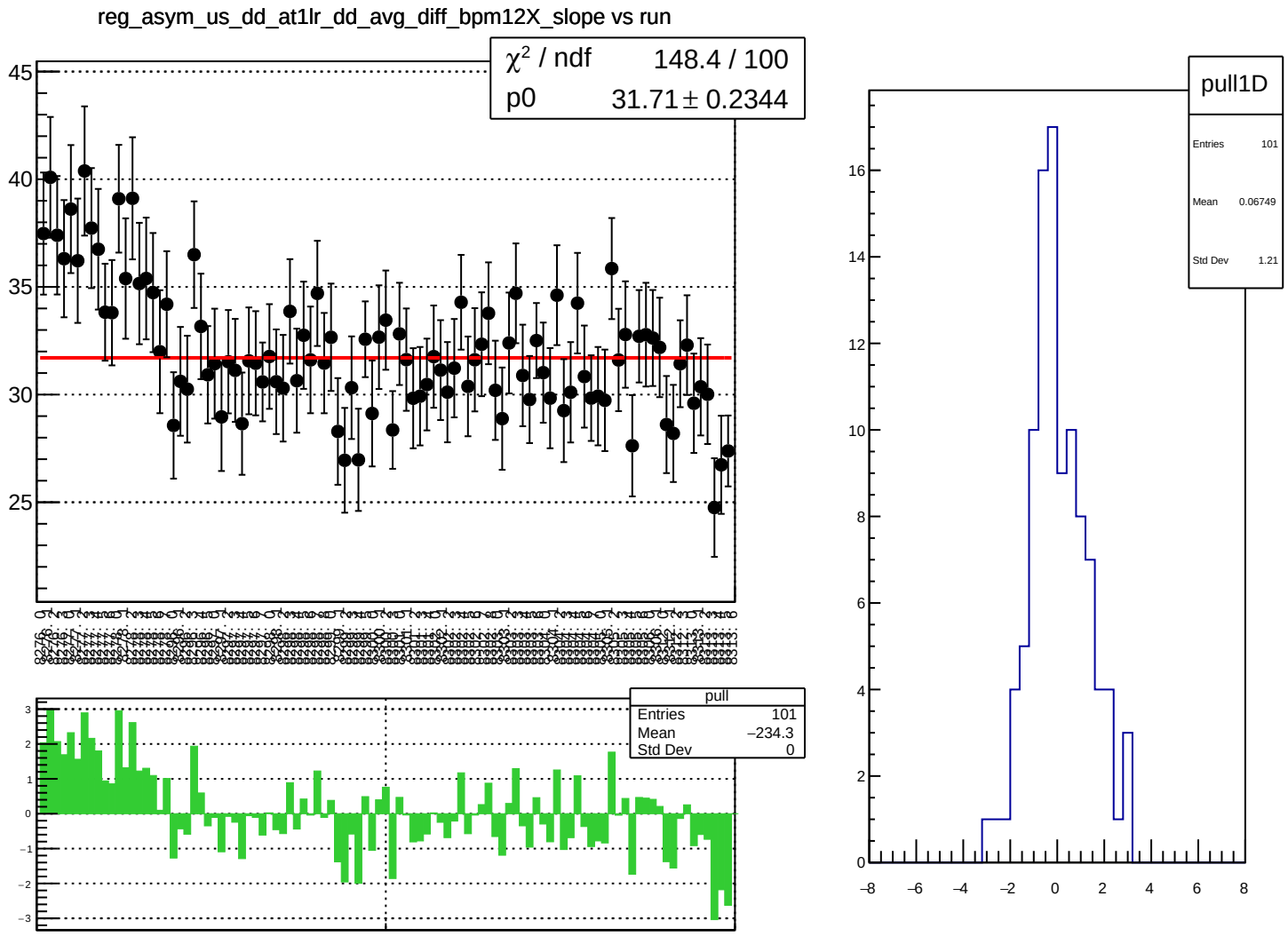

pull1D
Entries 101
Mean −0.004708
Std Dev 0.8835

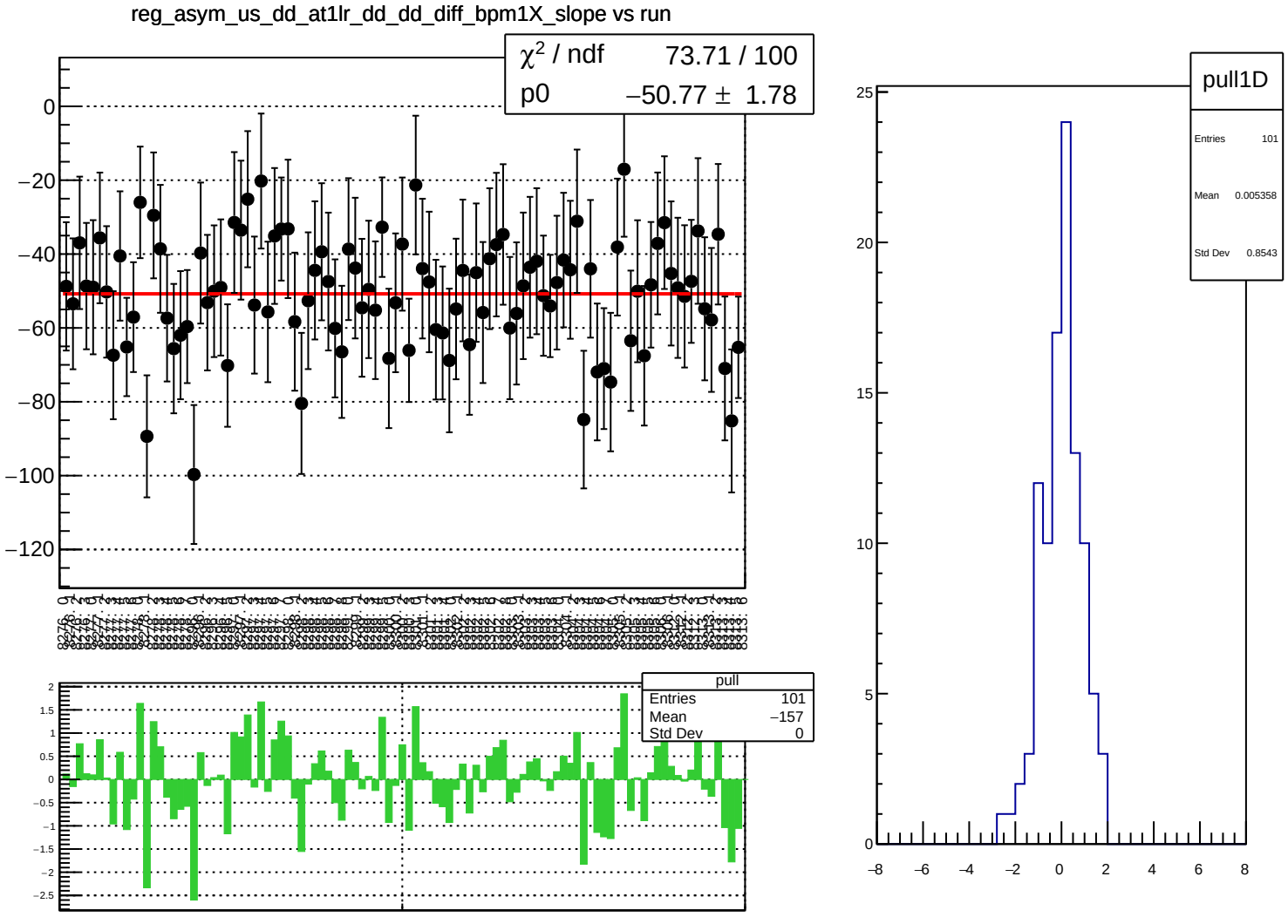

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 73.07 / 100
p0 −4.475 ± 4.247
pull
Entries 101
Mean −468.8
Std Dev 0

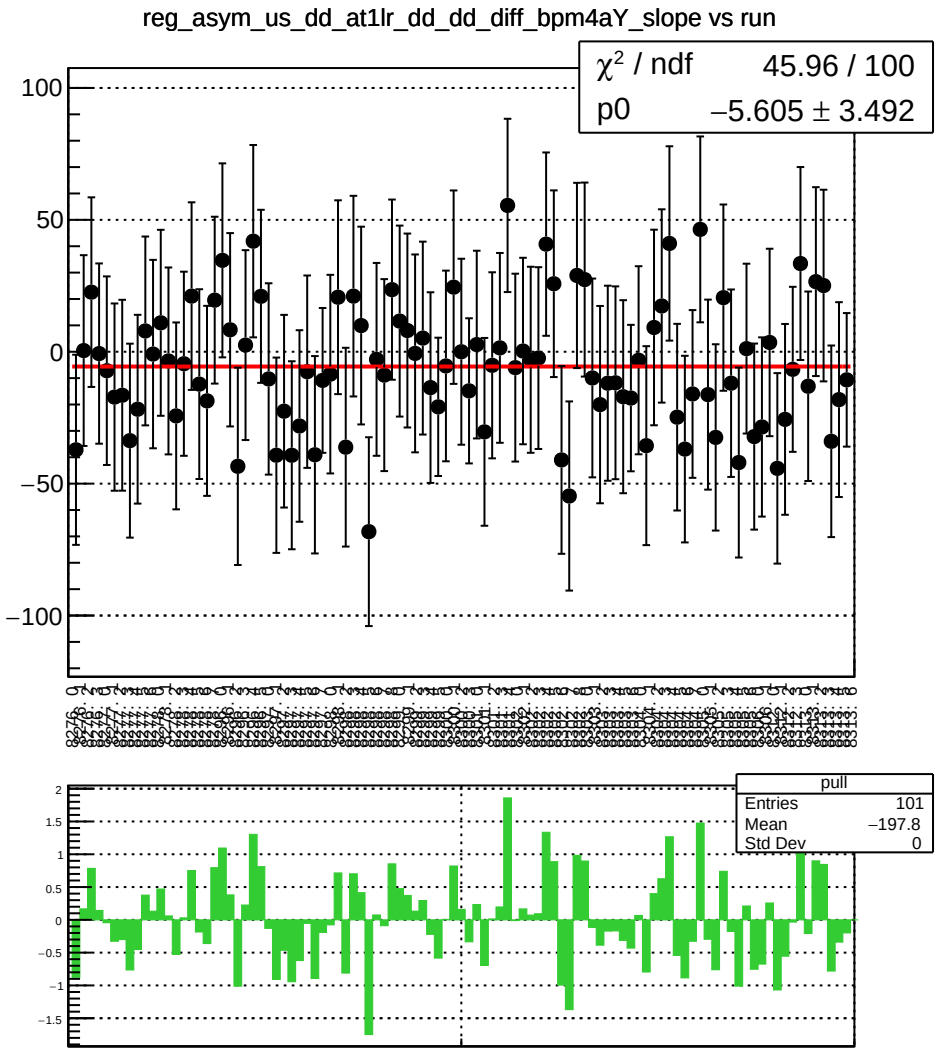

pull1D
Entries 101
Mean 0.003176
Std Dev 0.8505

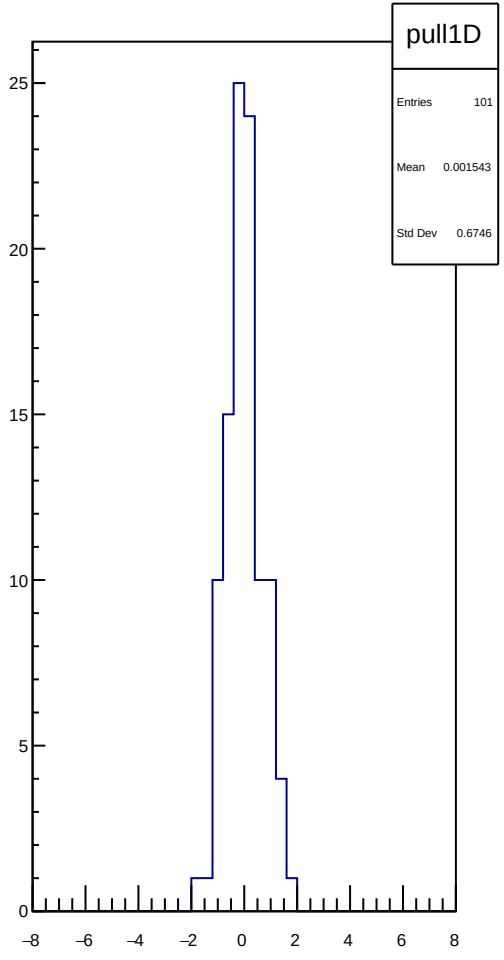

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 76.65 / 100
p0 −78.99 ± 2.426
pull
Entries 101
Mean 243.2
Std Dev 0
pull1D
Entries 101
Mean 0.005758
Std Dev 0.8712

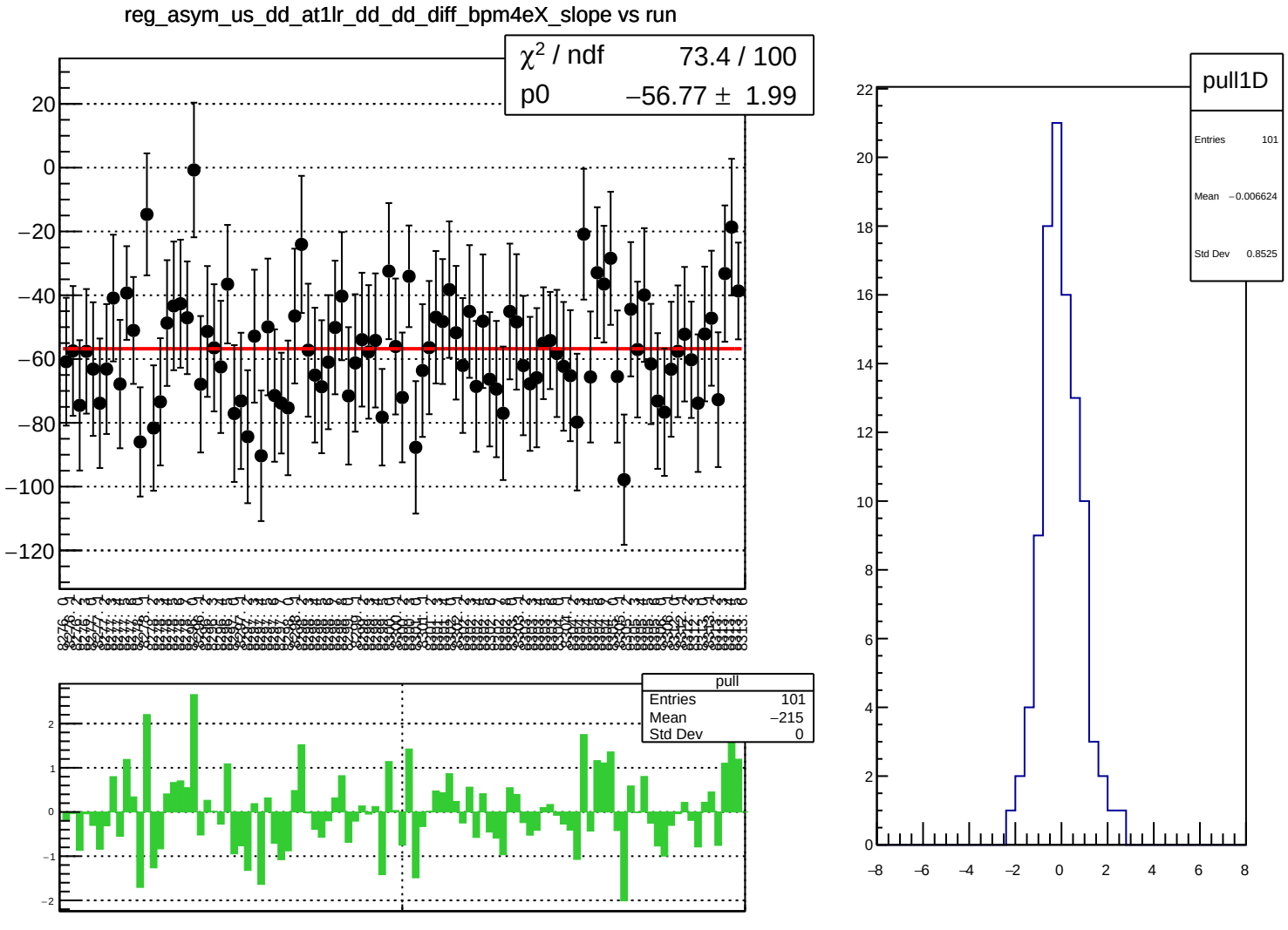

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 75.28 / 100
p0 −3.497 ± 4.413
100
50
0
−50
−100
−150
pull
Entries 101
Mean −417.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 101
Mean −0.003664
Std Dev 0.8633
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

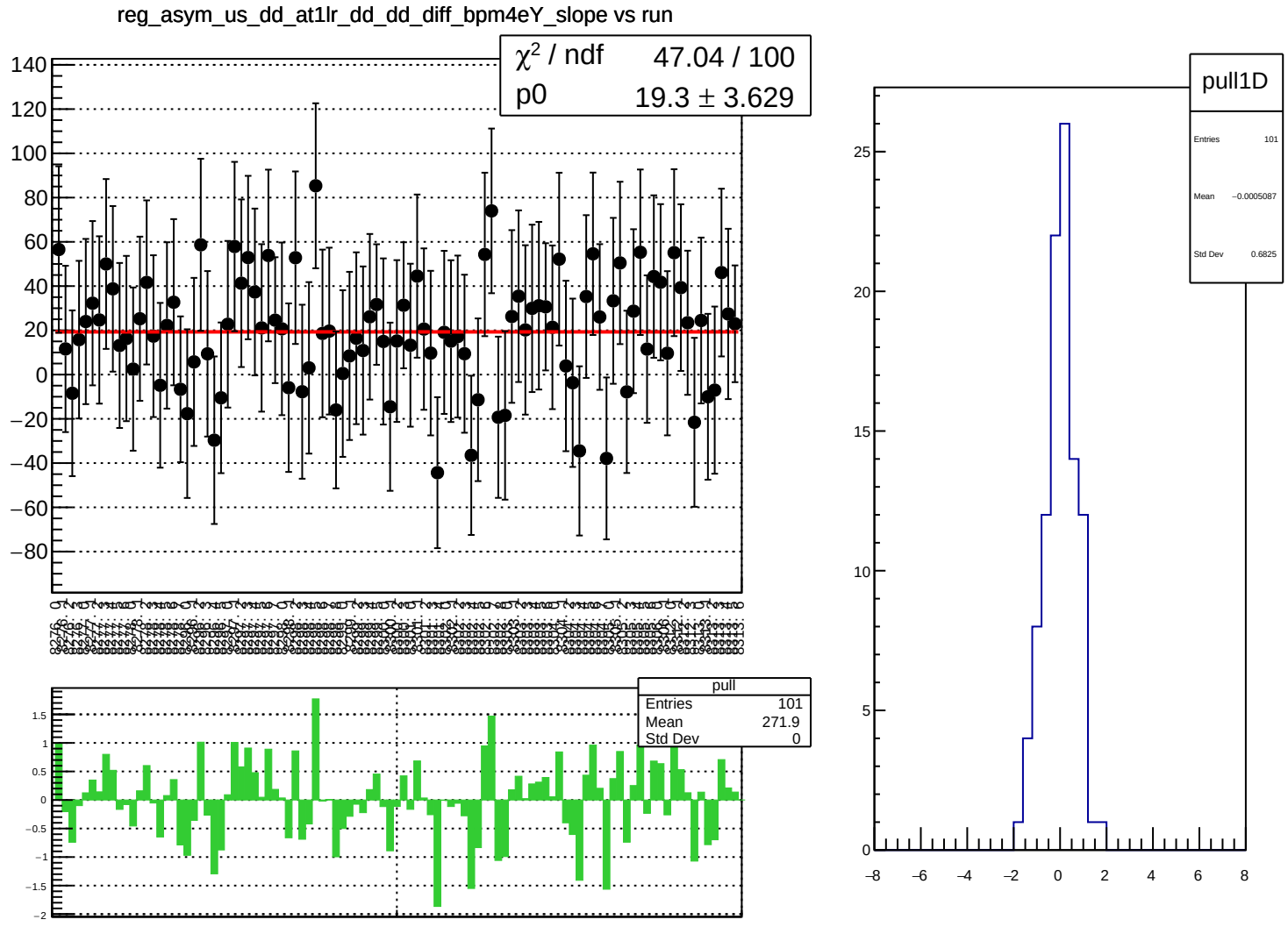

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 148.4 / 100
p0 31.71 ± 0.2344
pull
Entries 101
Mean −234.3
Std Dev 0
pull1D
Entries 101
Mean 0.06749
Std Dev 1.21

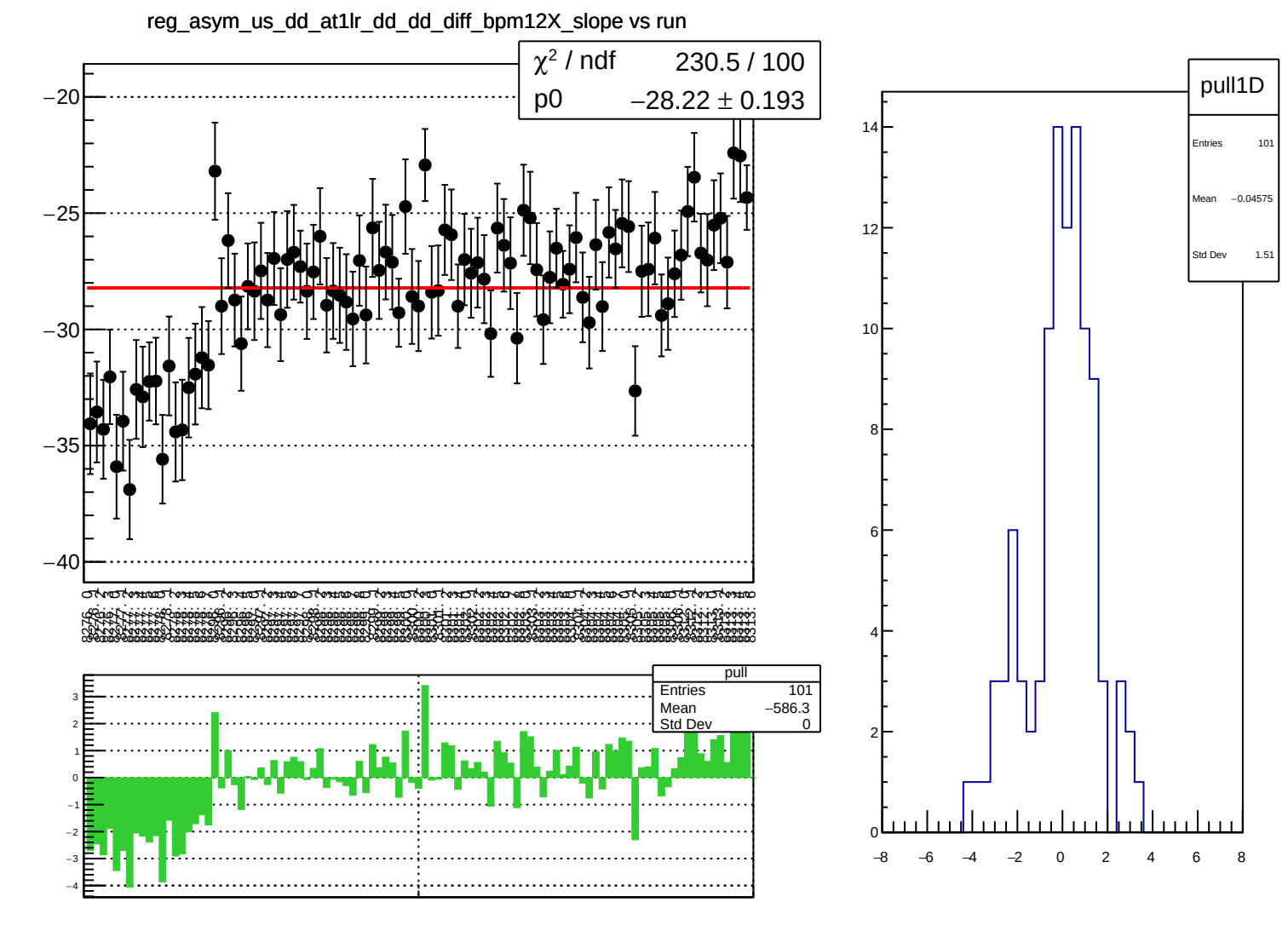

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 73.71 / 100
p0 −50.77 ± 1.78
0
−20
−40
−60
−80
−100
−120
pull
Entries 101
Mean −157
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 101
Mean 0.005358
Std Dev 0.8543
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

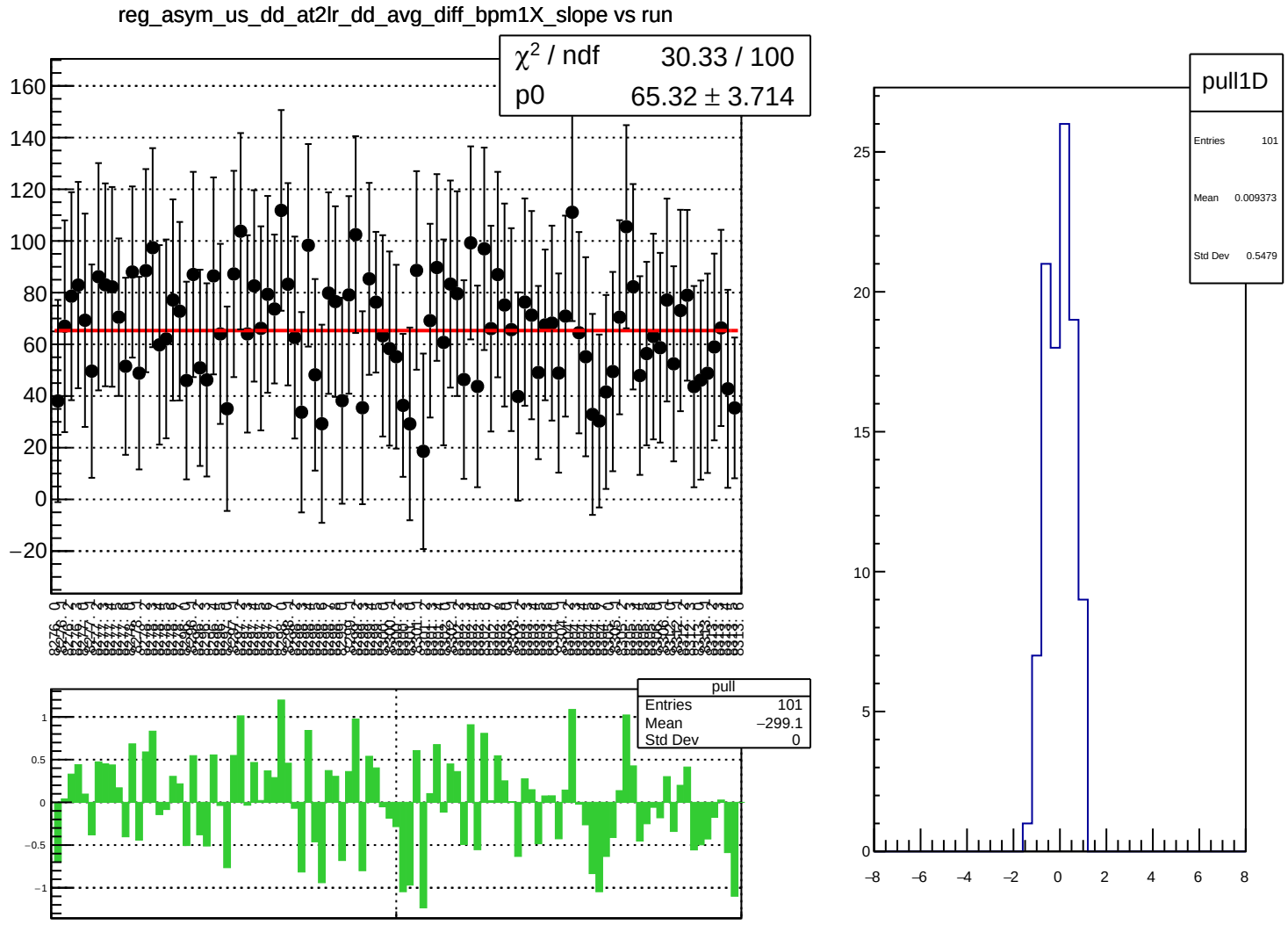

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 45.96 / 100
p0 −5.605 ± 3.492
100
50
0
−50
−100
pull
Entries 101
Mean −197.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

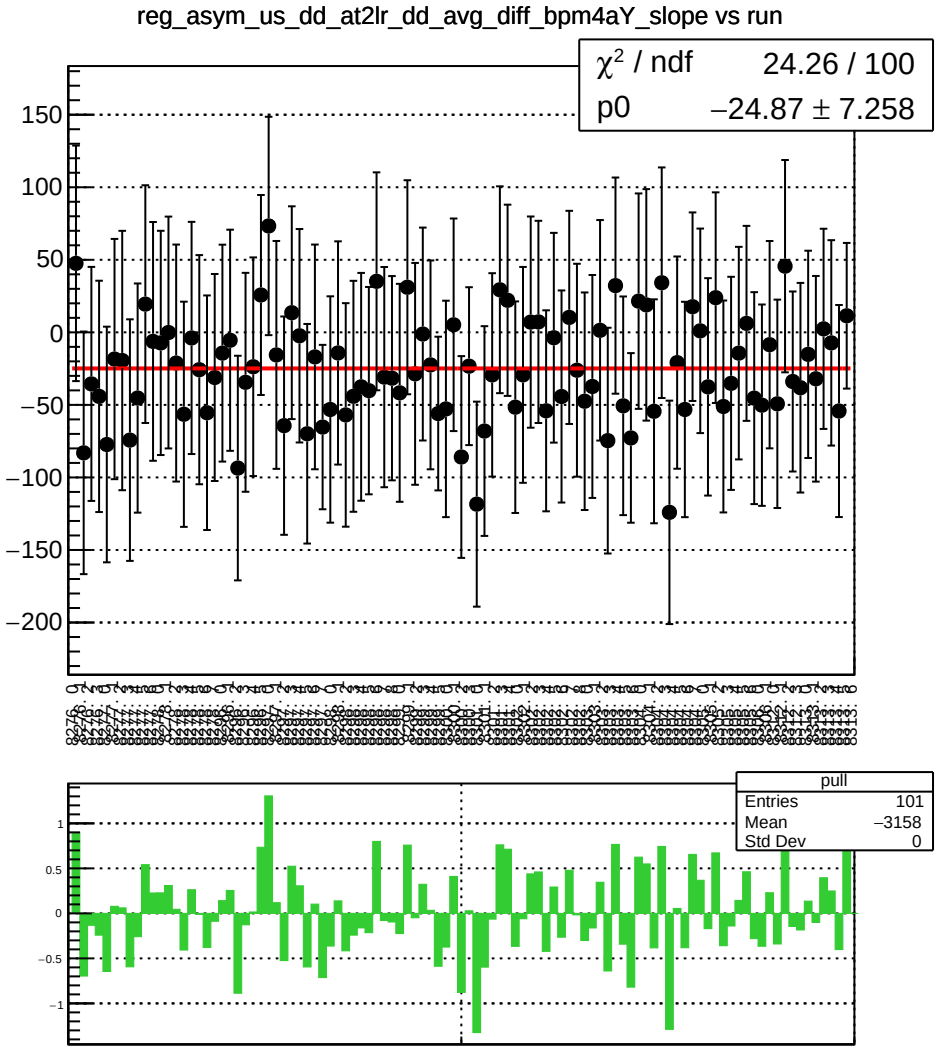

pull1D
Entries 101
Mean 0.001543
Std Dev 0.6746
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

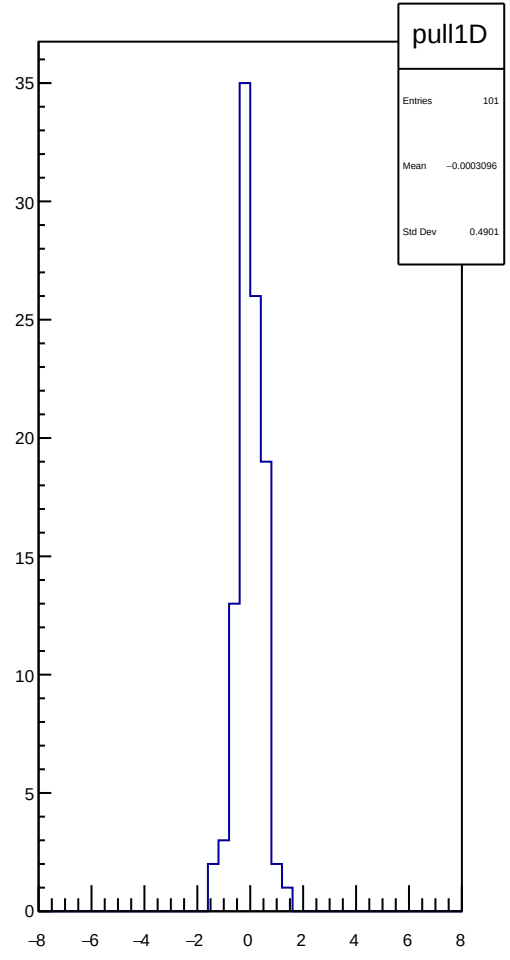

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 73.4 / 100
p0 −56.77 ± 1.99
pull
Entries 101
Mean −215
Std Dev 0
pull1D
Entries 101
Mean −0.006624
Std Dev 0.8525

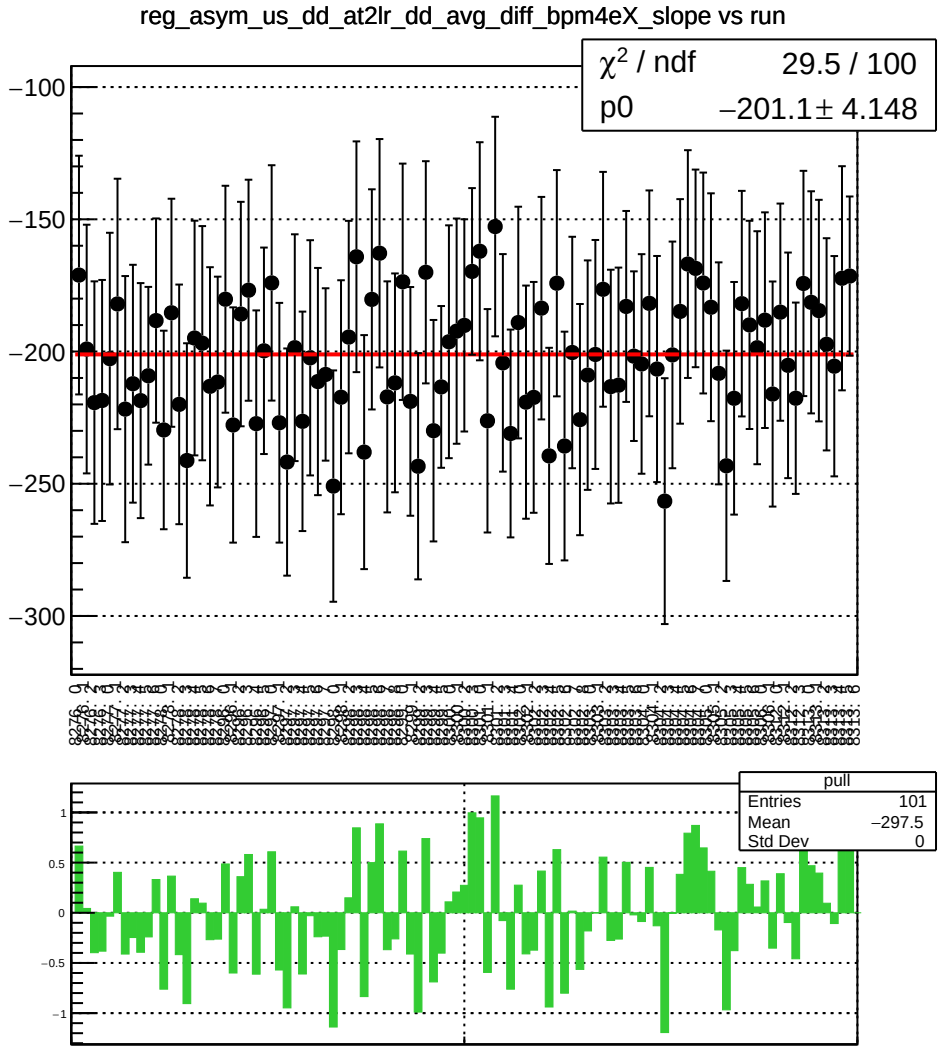

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 47.04 / 100
p0 19.3 ± 3.629
pull
Entries 101
Mean 271.9
Std Dev 0
pull1D
Entries 101
Mean −0.0005087
Std Dev 0.6825

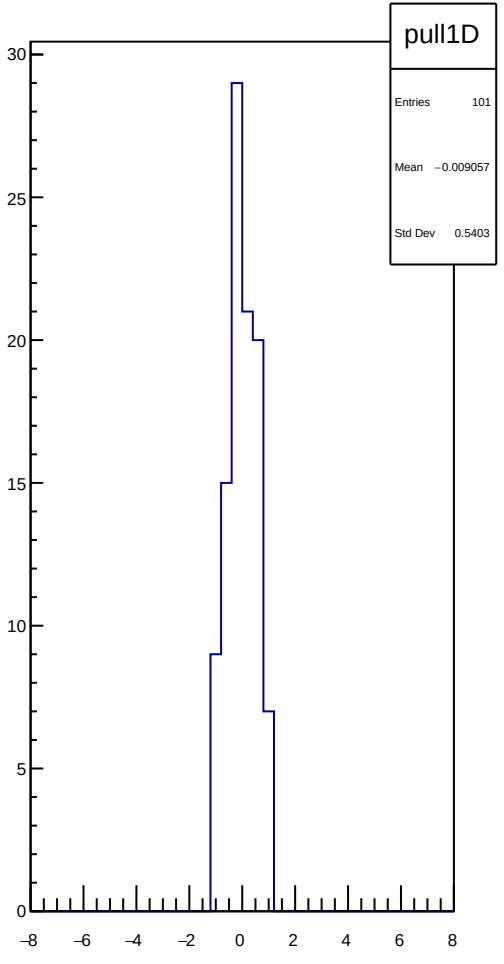

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 230.5 / 100
p0 −28.22 ± 0.193
pull
Entries 101
Mean −586.3
Std Dev 0
pull1D
Entries 101
Mean −0.04575
Std Dev 1.51

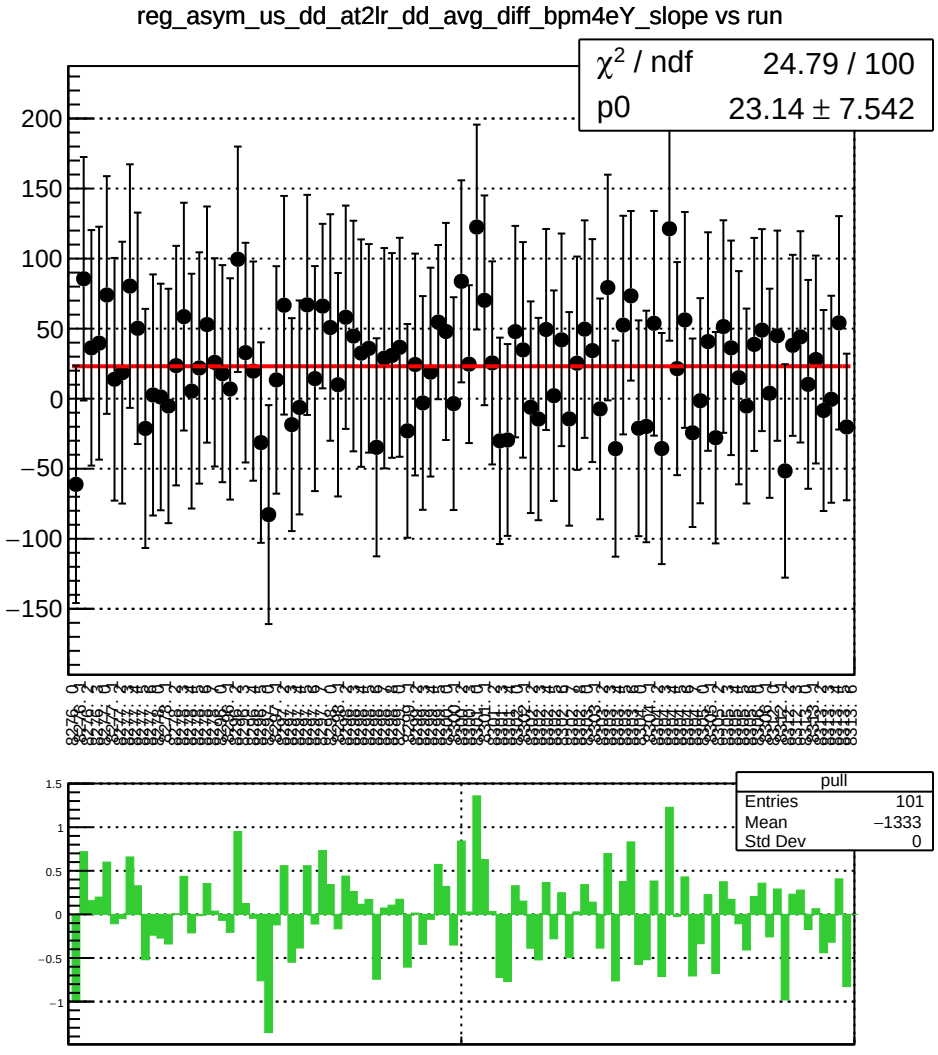

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 30.33 / 100
p0 65.32 ± 3.714
pull
Entries 101
Mean −299.1
Std Dev 0
pull1D
Entries 101
Mean 0.009373
Std Dev 0.5479

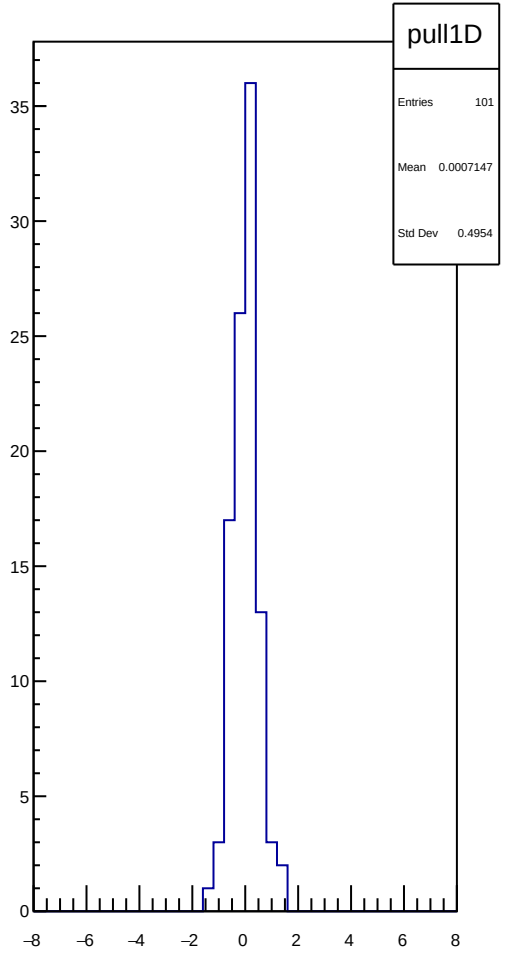

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 24.26 / 100
p0 −24.87 ± 7.258
150
100
50
0
−50
−100
−150
−200
pull
Entries 101
Mean −3158
Std Dev 0
1
0.5
0
−0.5
−1

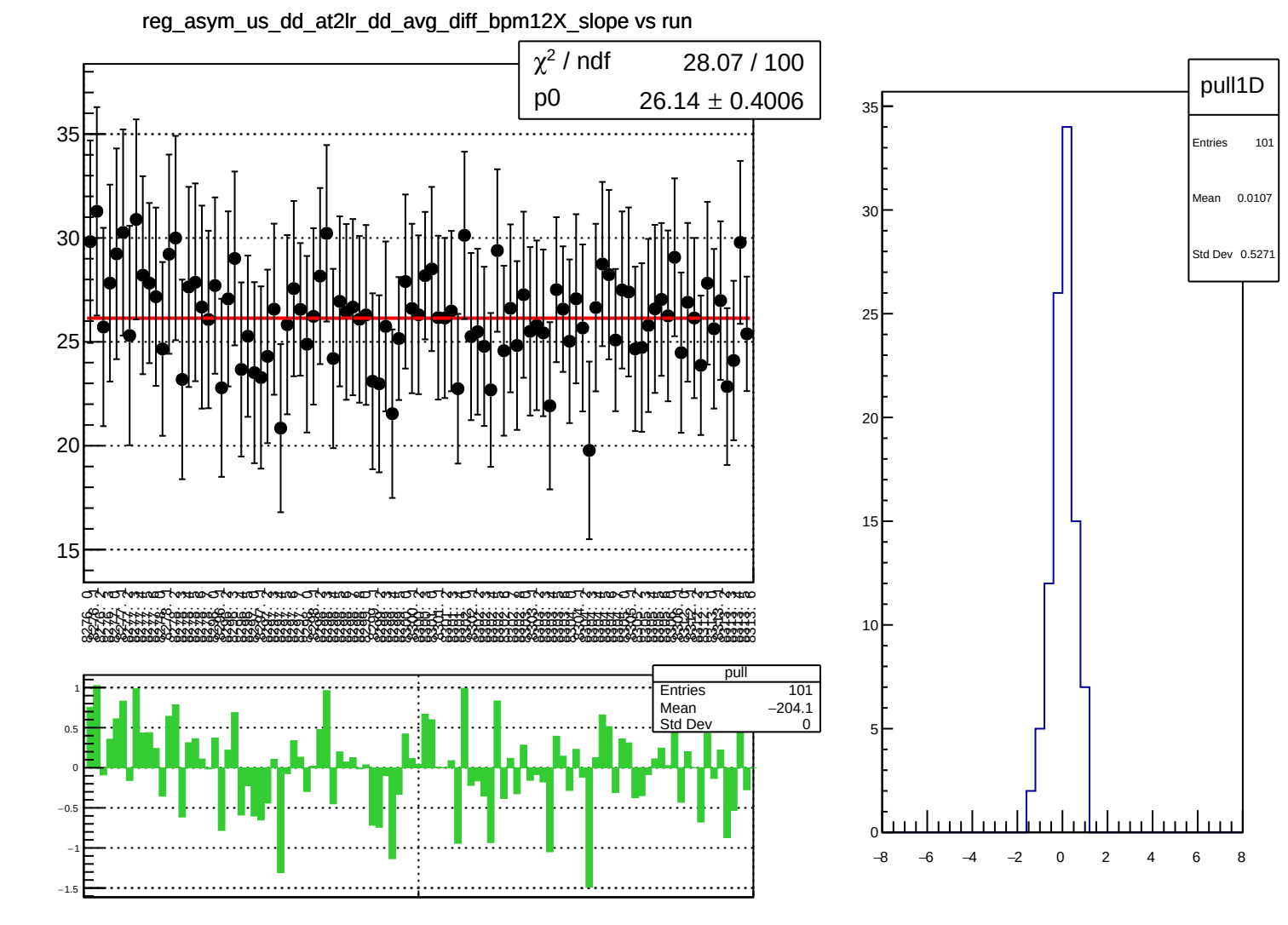

pull1D
Entries 101
Mean −0.0003096
Std Dev 0.4901
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

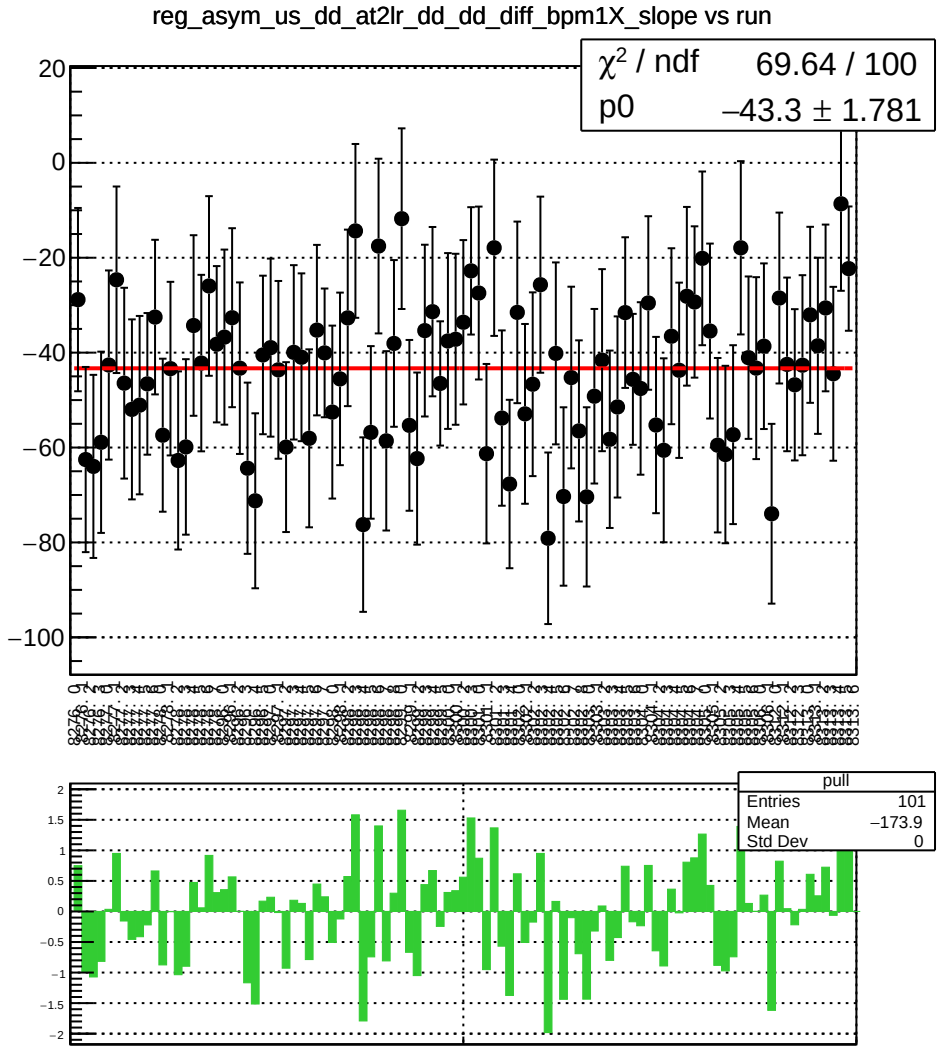

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 29.5 / 100
p0 −201.1 ± 4.148
−100
−150
−200
−250
−300
pull
Entries 101
Mean −297.5
Std Dev 0
1
0.5
0
−0.5
−1

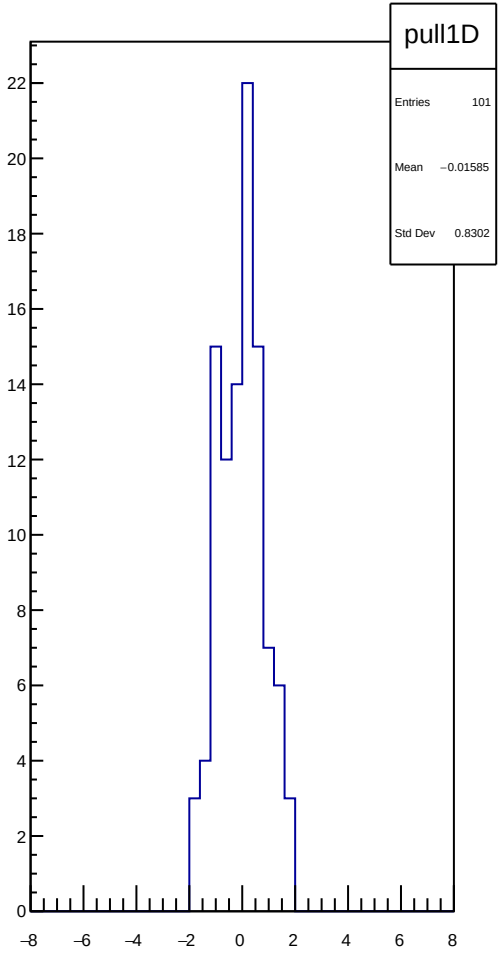

pull1D
Entries 101
Mean −0.009057
Std Dev 0.5403
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

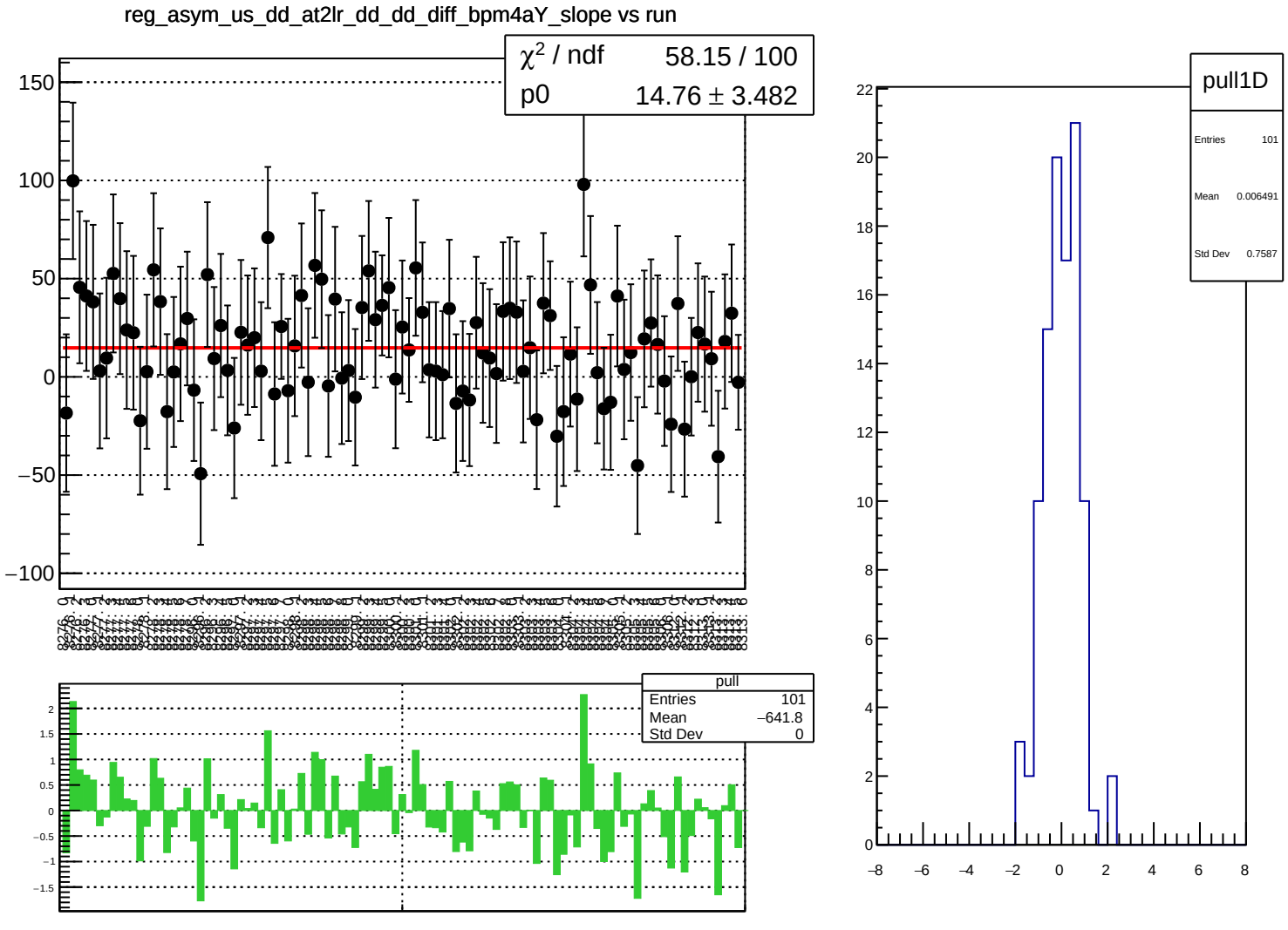

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 24.79 / 100
p0 23.14 ± 7.542
200
150
100
50
0
−50
−100
−150
pull
Entries 101
Mean −1333
Std Dev 0
1.5
1
0.5
0
−0.5
−1

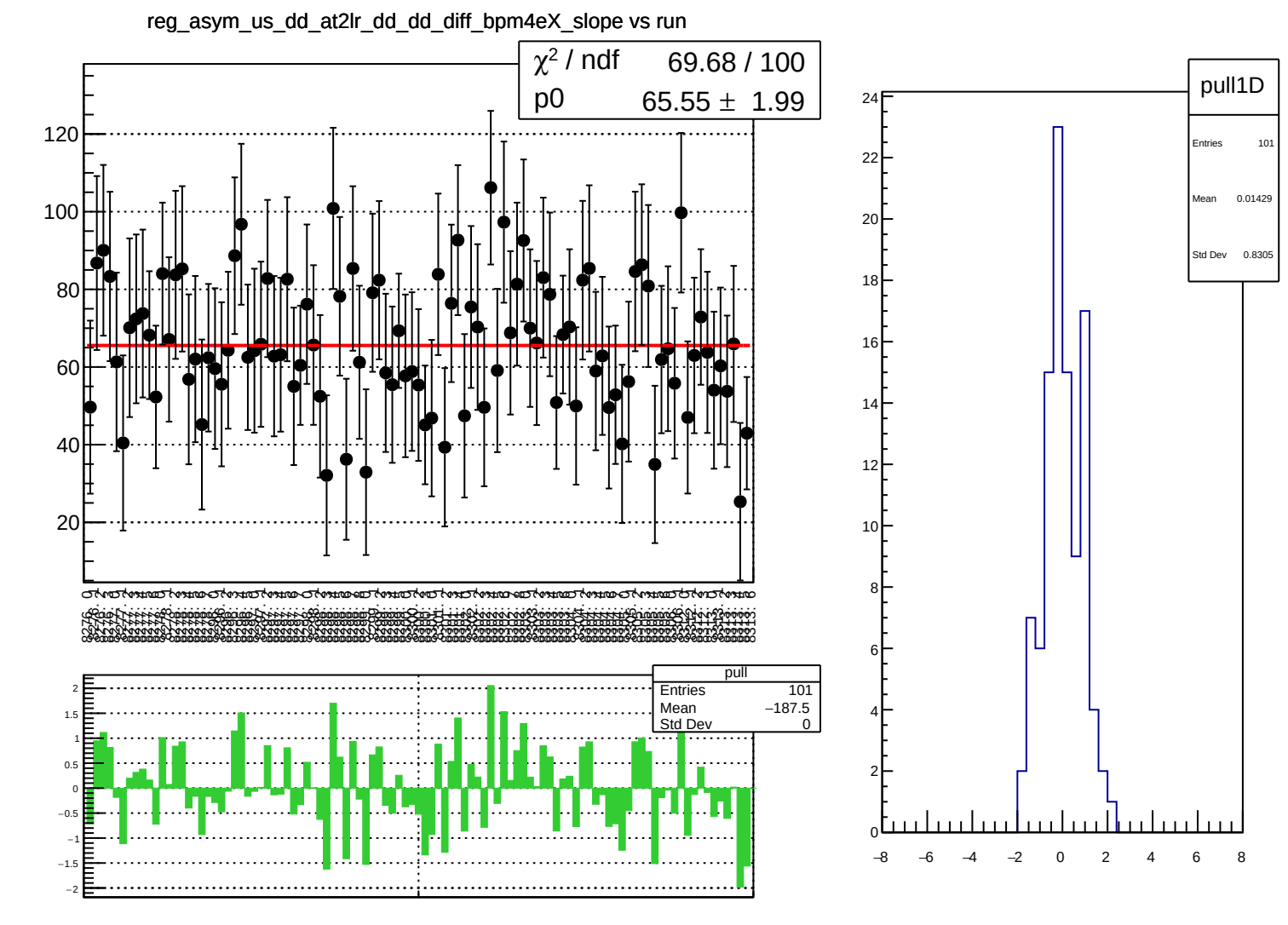

pull1D
Entries 101
Mean 0.0007147
Std Dev 0.4954
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

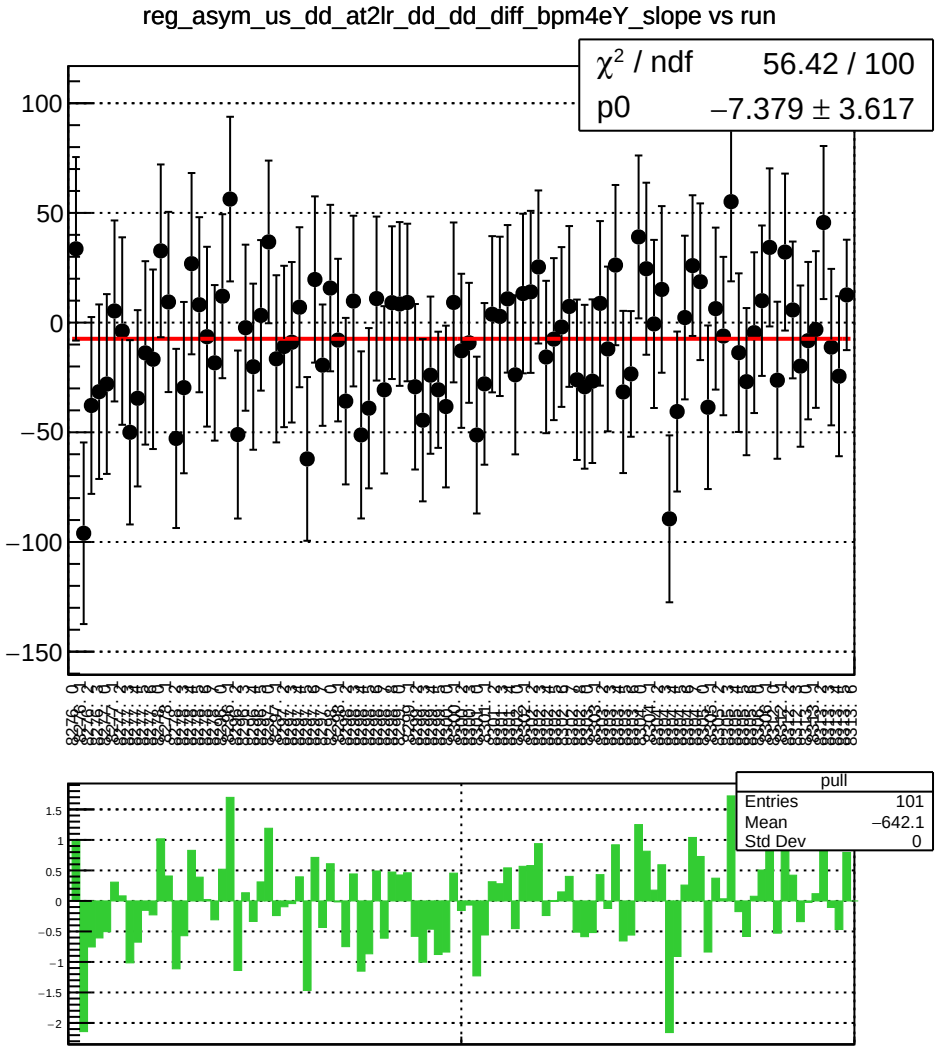

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 28.07 / 100
p0 26.14 ± 0.4006
pull
Entries 101
Mean −204.1
Std Dev 0
pull1D
Entries 101
Mean 0.0107
Std Dev 0.5271

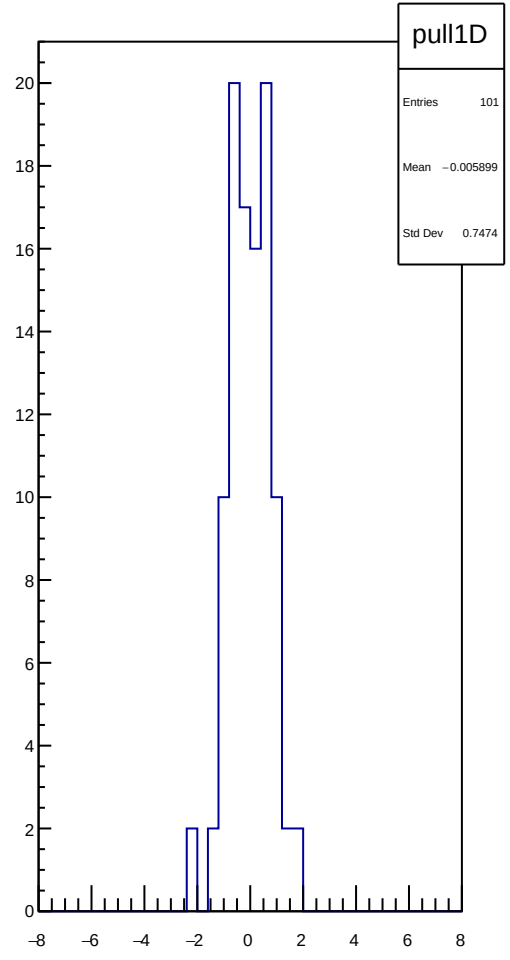

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 69.64 / 100
p0 −43.3 ± 1.781
pull
Entries 101
Mean −173.9
Std Dev 0

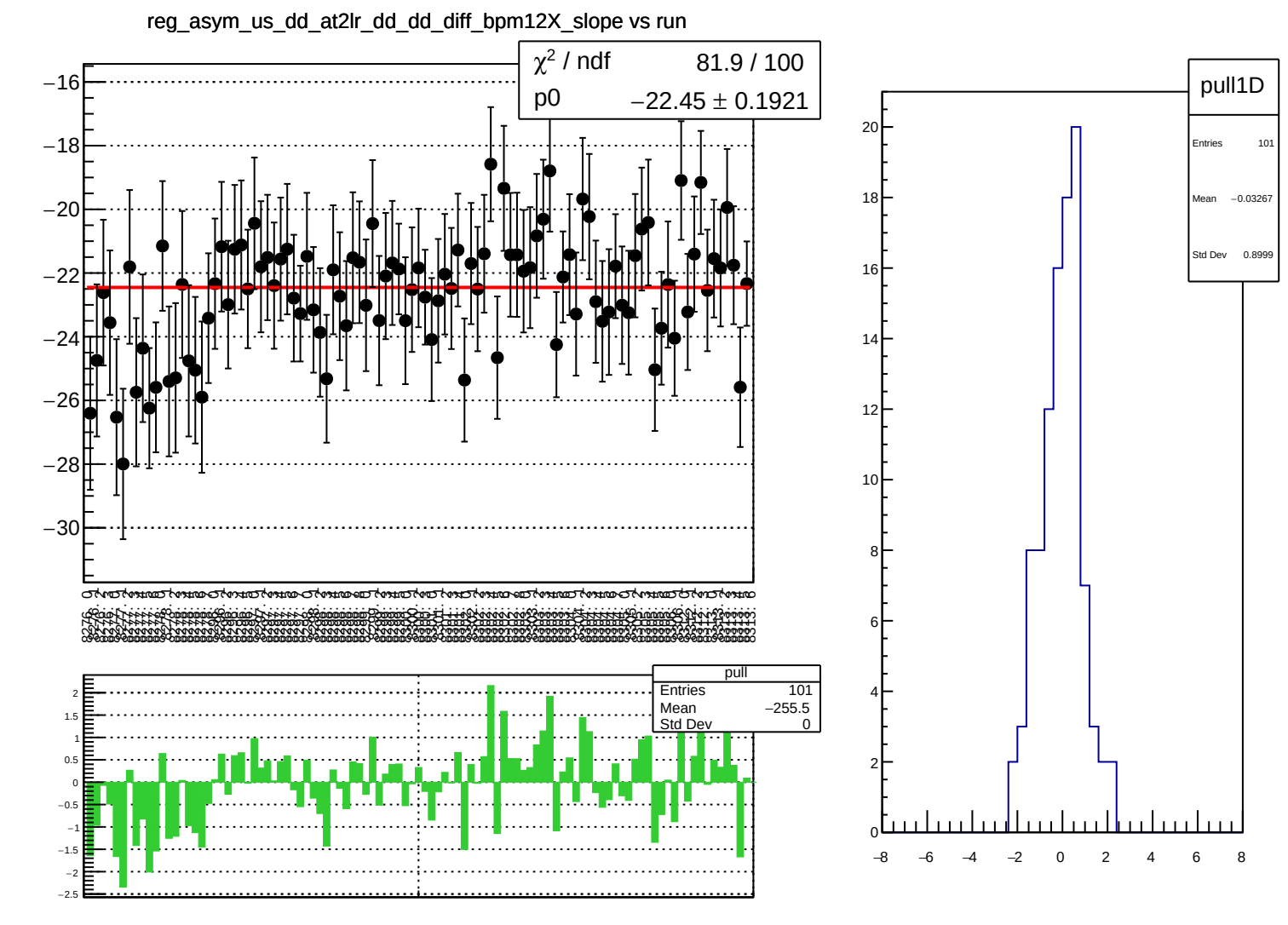

pull1D
Entries 101
Mean −0.01585
Std Dev 0.8302

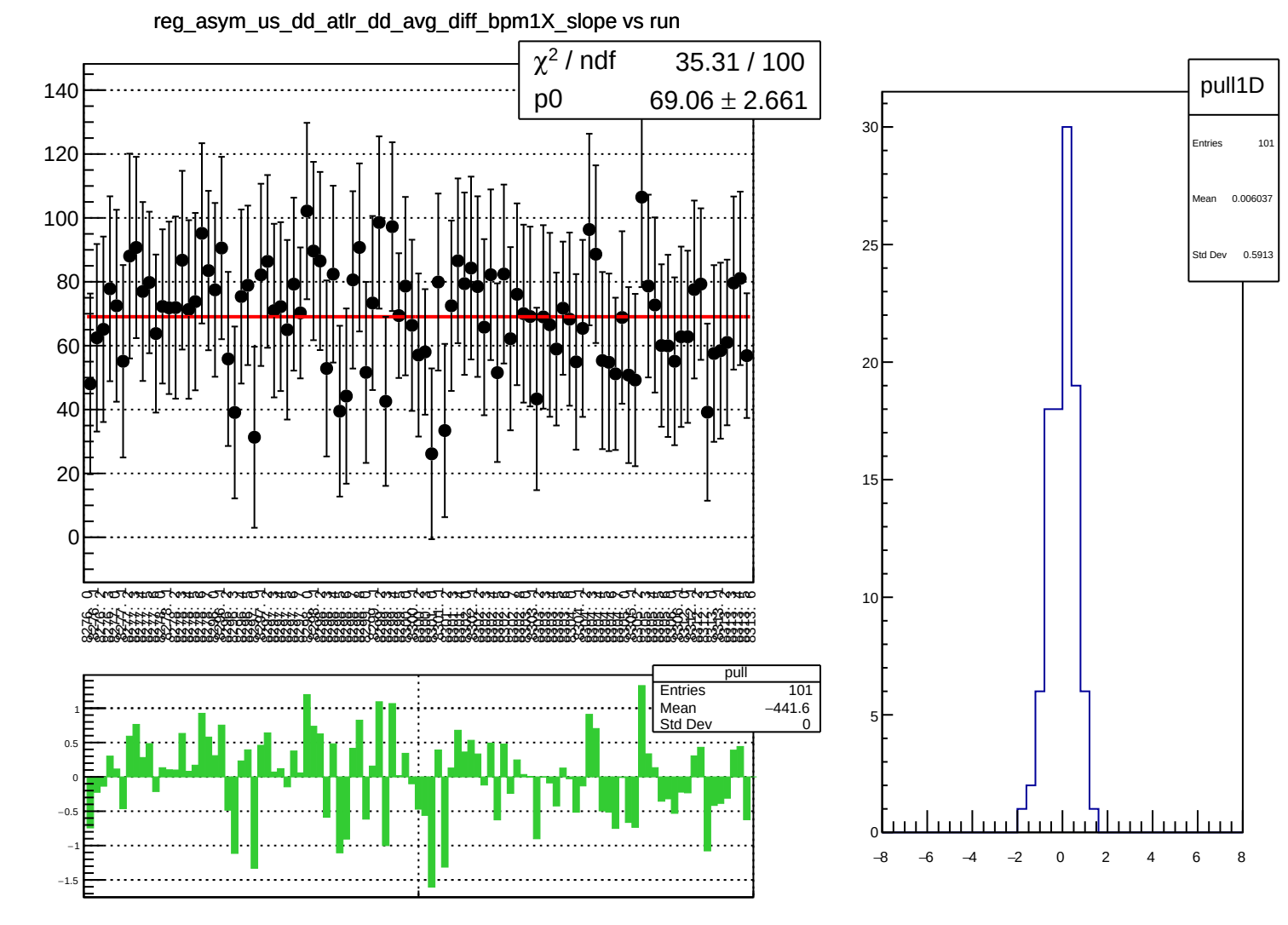

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 58.15 / 100
p0 14.76 ± 3.482
150
100
50
0
−50
−100
pull
Entries 101
Mean −641.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 101
Mean 0.006491
Std Dev 0.7587
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

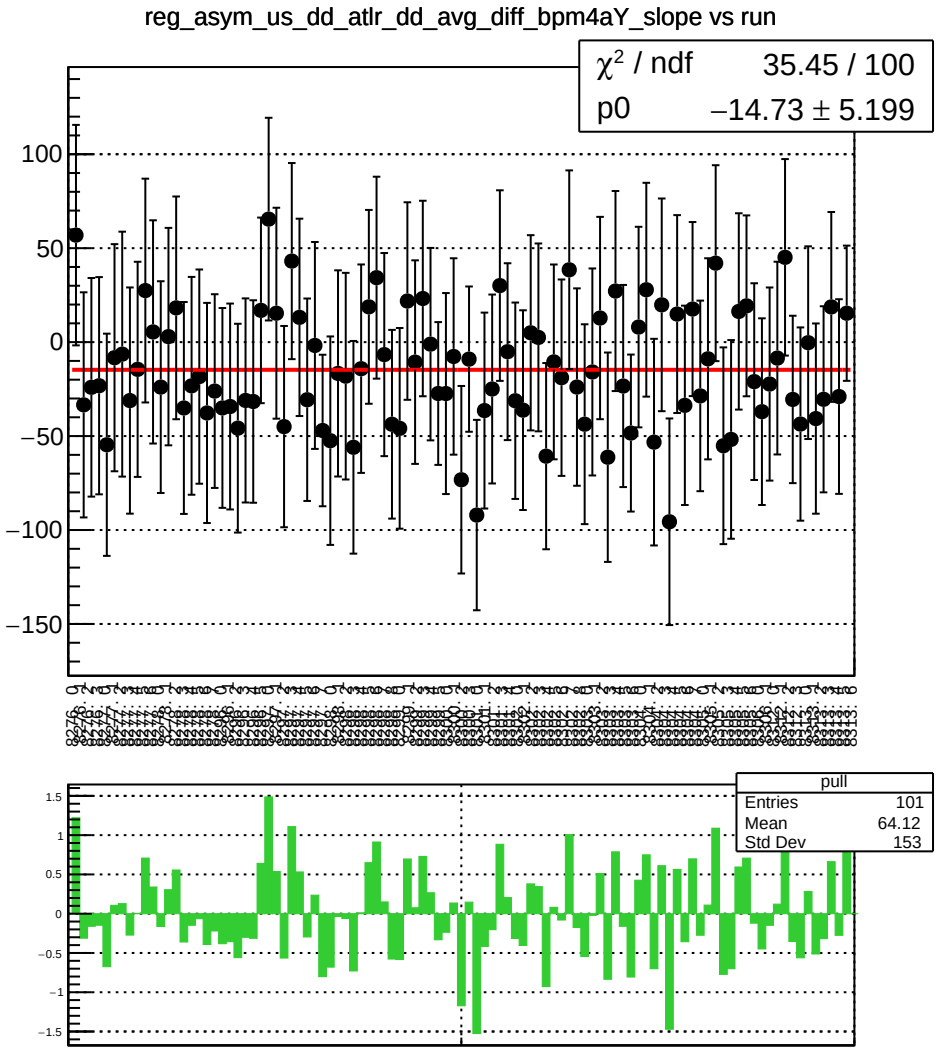

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 69.68 / 100
p0 65.55 ± 1.99
120
100
80
60
40
20
pull
Entries 101
Mean −187.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 101
Mean 0.01429
Std Dev 0.8305
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

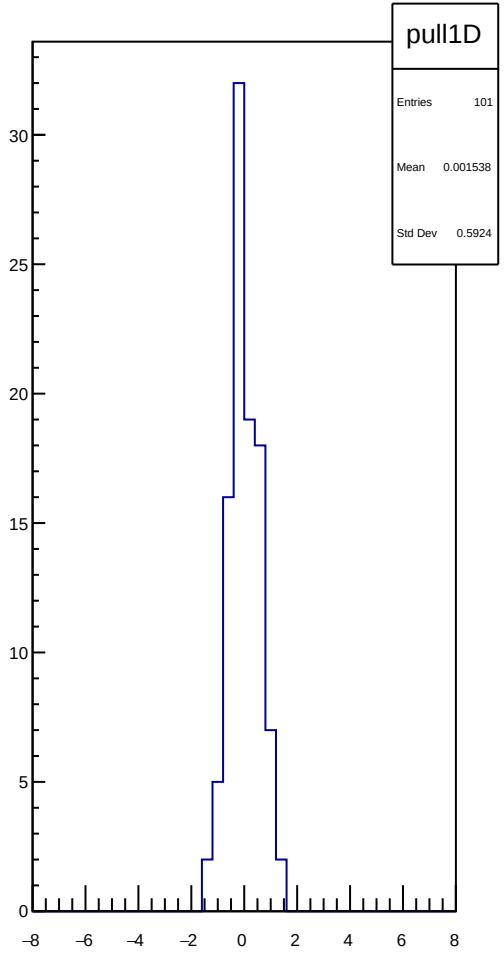

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 56.42 / 100
p0 −7.379 ± 3.617
pull
Entries 101
Mean −642.1
Std Dev 0

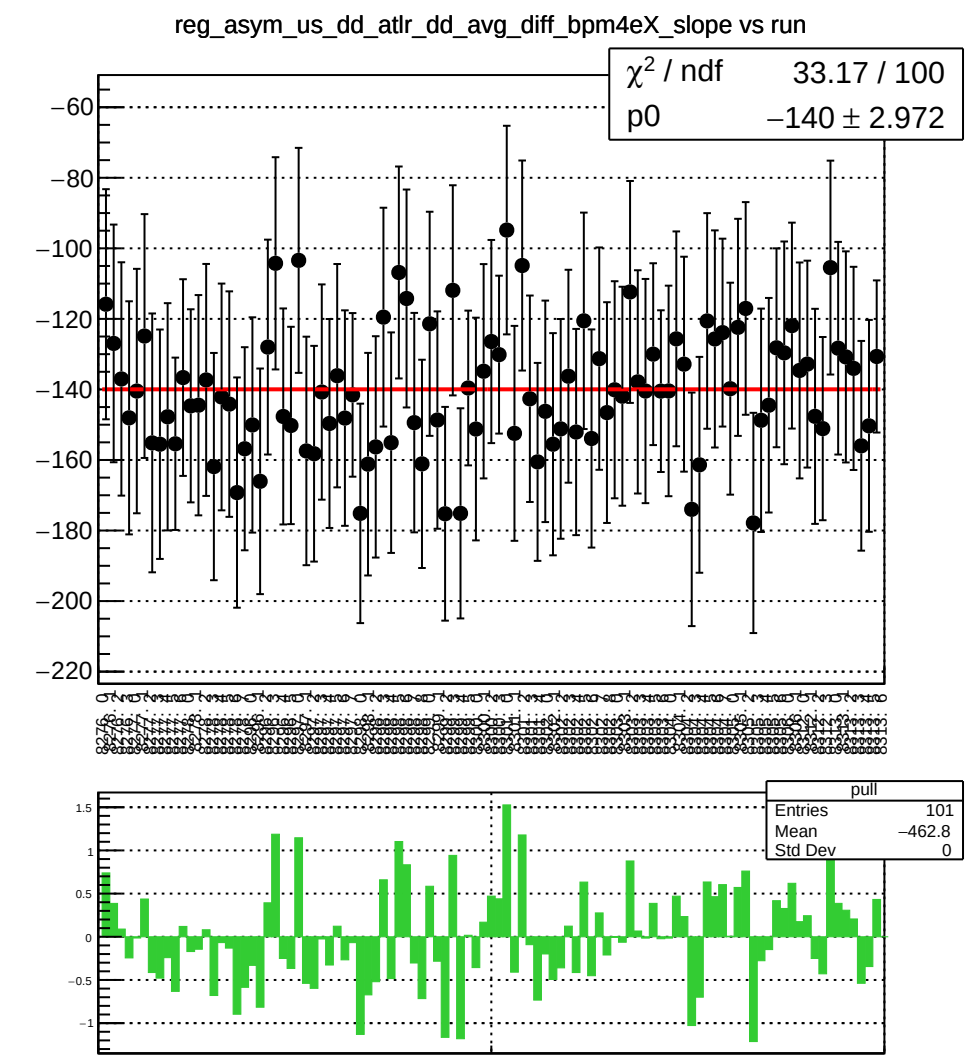

pull1D
Entries 101
Mean −0.005899
Std Dev 0.7474

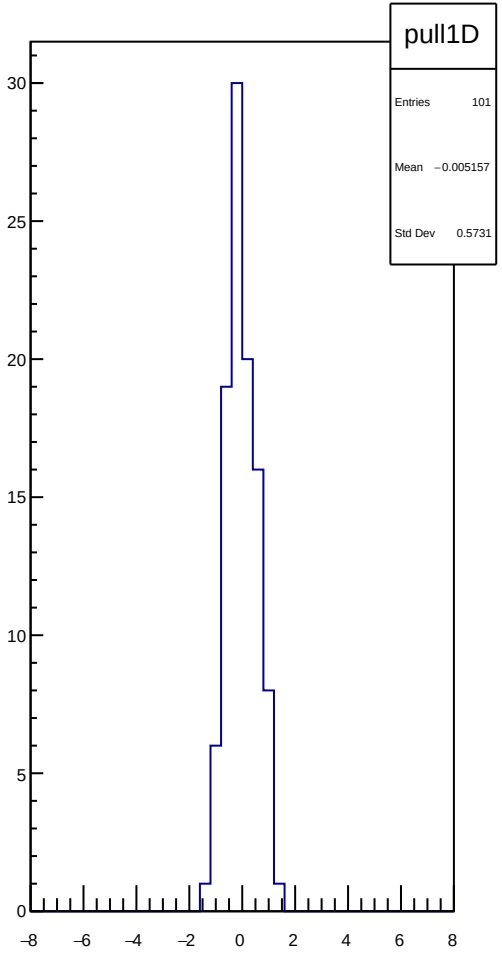

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 81.9 / 100
p0 −22.45 ± 0.1921
pull
Entries 101
Mean −255.5
Std Dev 0
pull1D
Entries 101
Mean −0.03267
Std Dev 0.8999

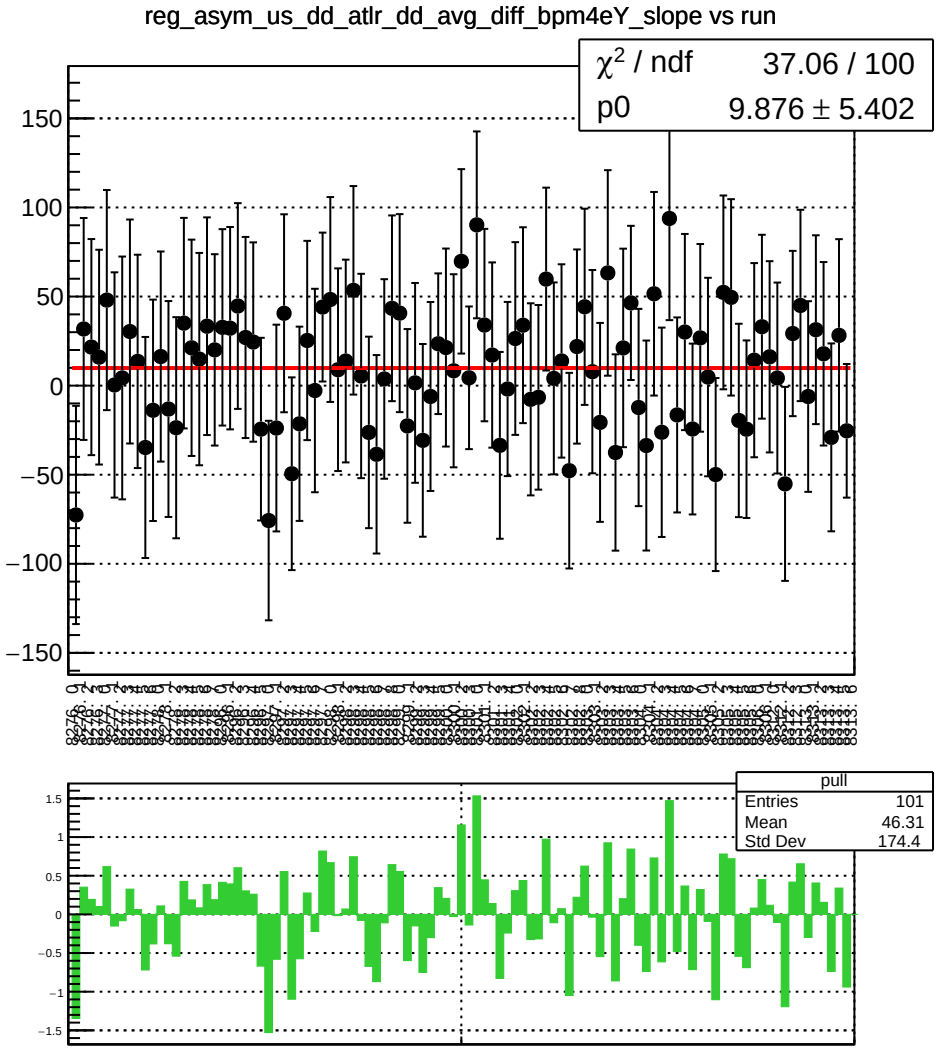

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 35.31 / 100
p0 69.06 ± 2.661
pull
Entries 101
Mean −441.6
Std Dev 0
pull1D
Entries 101
Mean 0.006037
Std Dev 0.5913

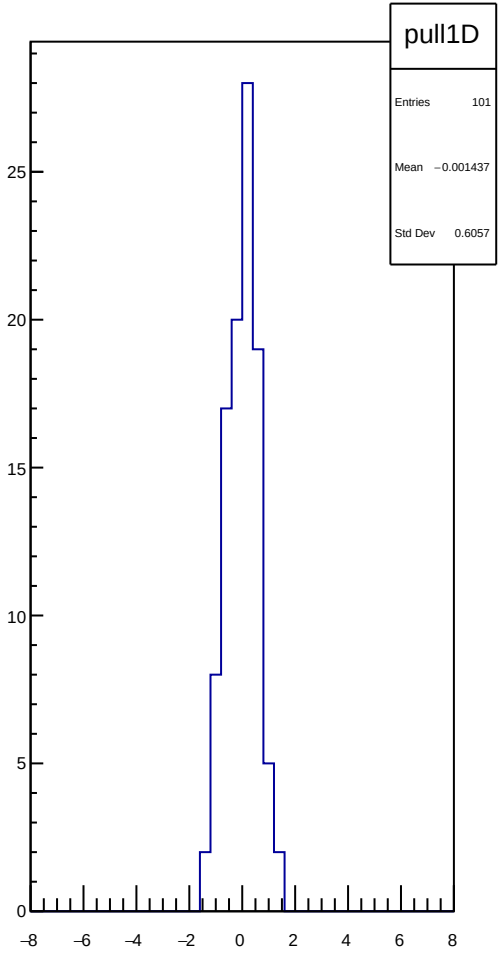

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 35.45 / 100
p0 −14.73 ± 5.199
100
50
0
−50
−100
−150
pull
Entries 101
Mean 64.12
Std Dev 153
1.5
1
0.5
0
−0.5
−1
−1.5

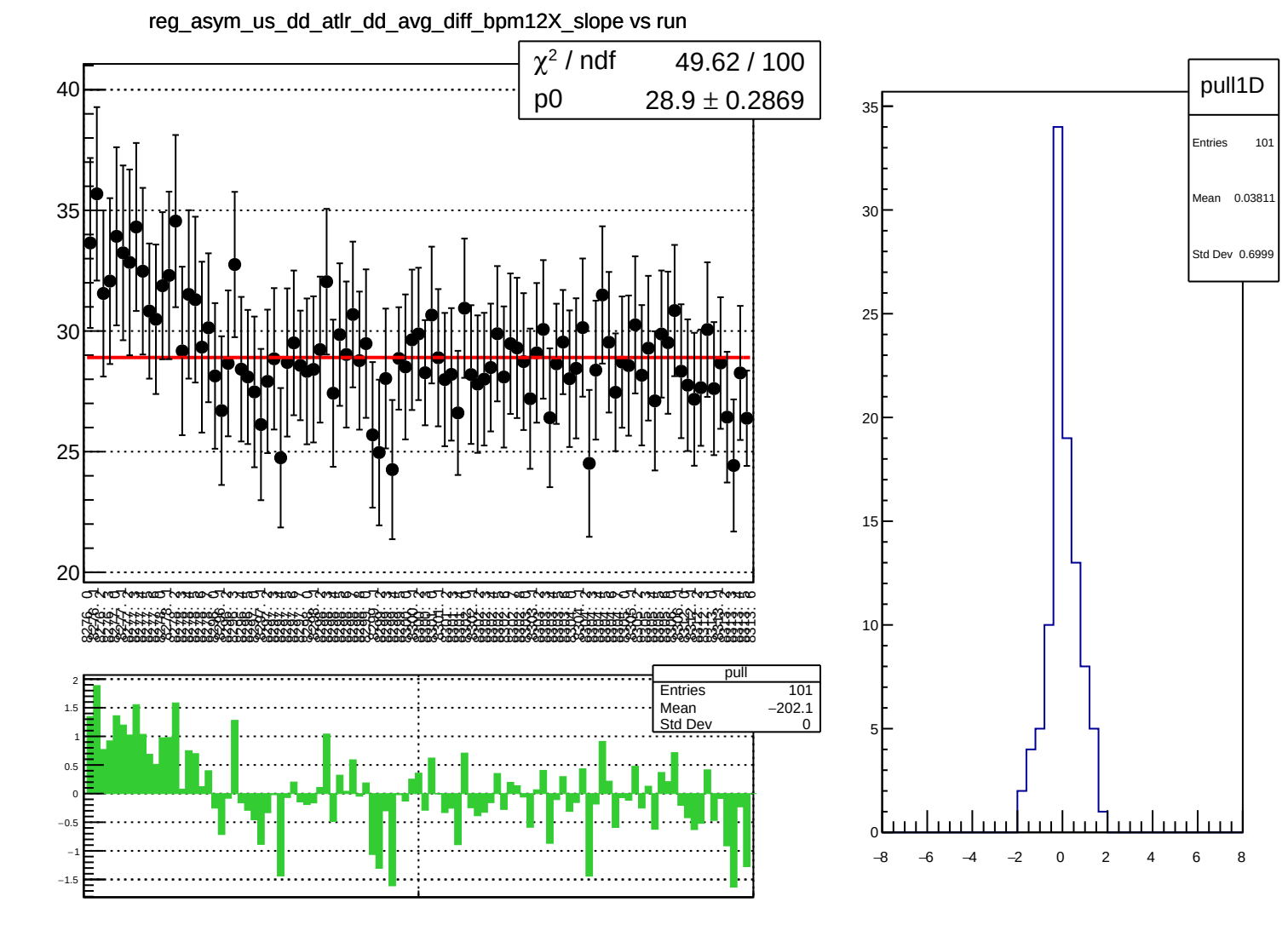

pull1D
Entries 101
Mean 0.001538
Std Dev 0.5924
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

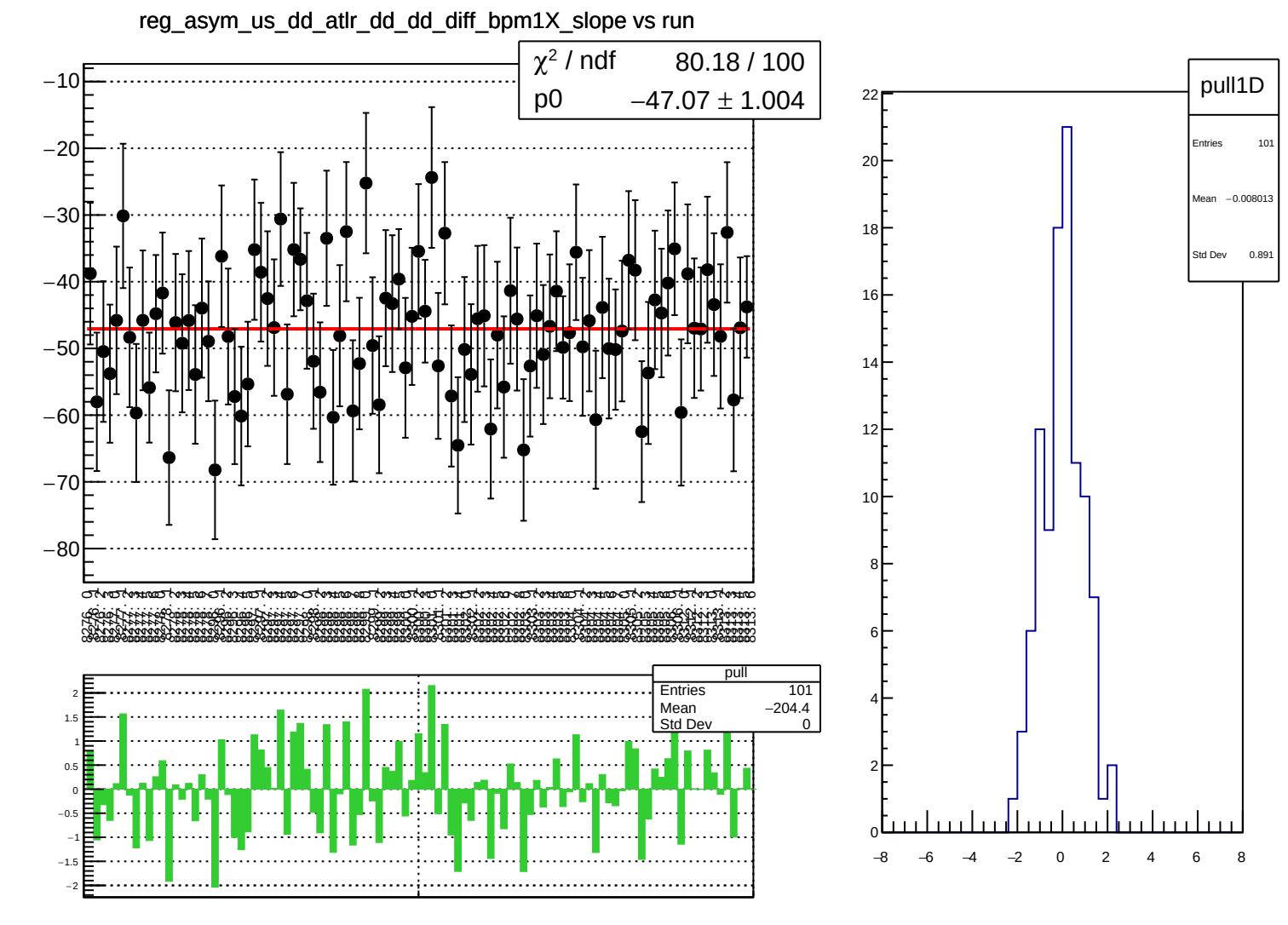

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 33.17 / 100
p0 −140 ± 2.972
pull
Entries 101
Mean −462.8
Std Dev 0

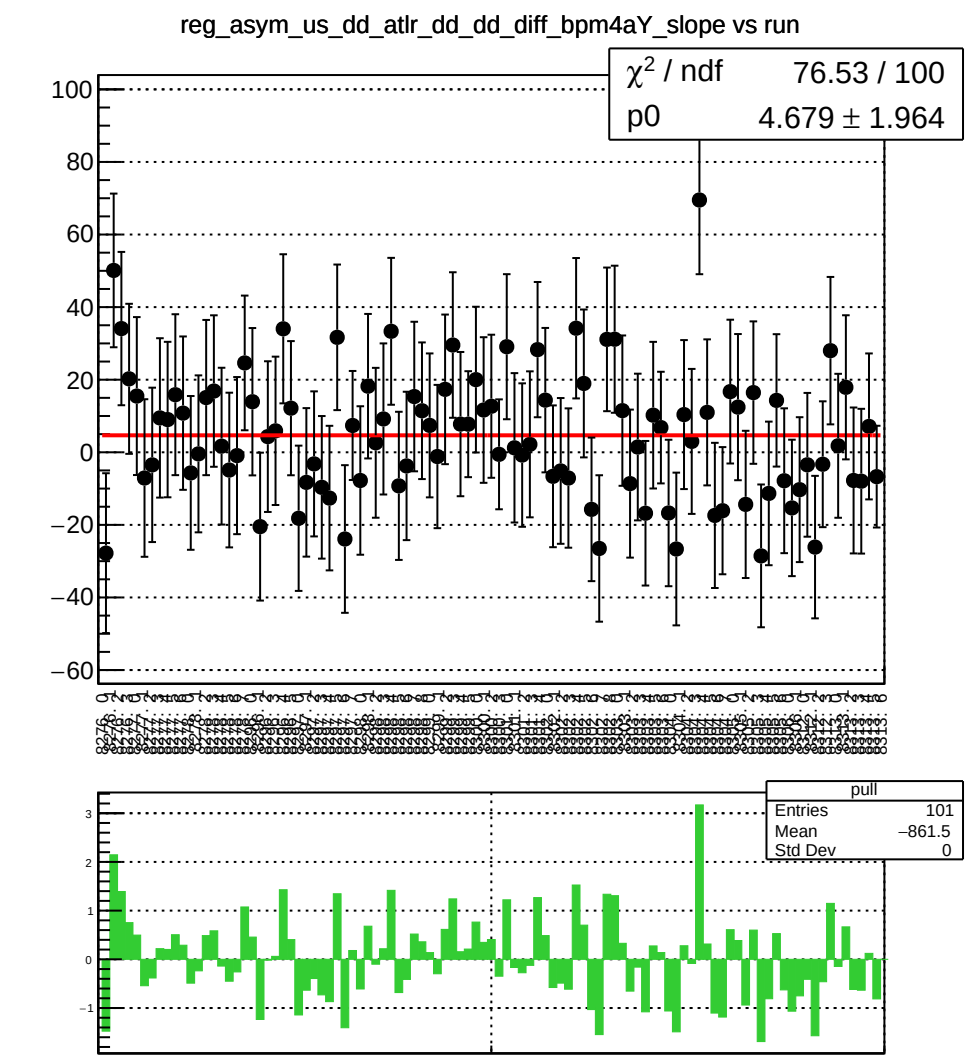

pull1D
Entries 101
Mean −0.005157
Std Dev 0.5731

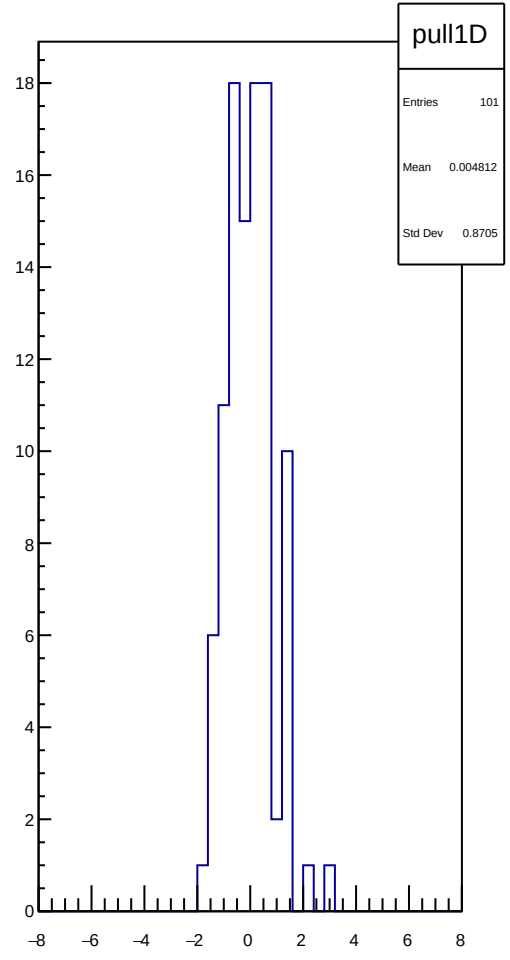

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 37.06 / 100
p0 9.876 ± 5.402
150
100
50
0
−50
−100
−150
pull
Entries 101
Mean 46.31
Std Dev 174.4
1.5
1
0.5
0
−0.5
−1
−1.5

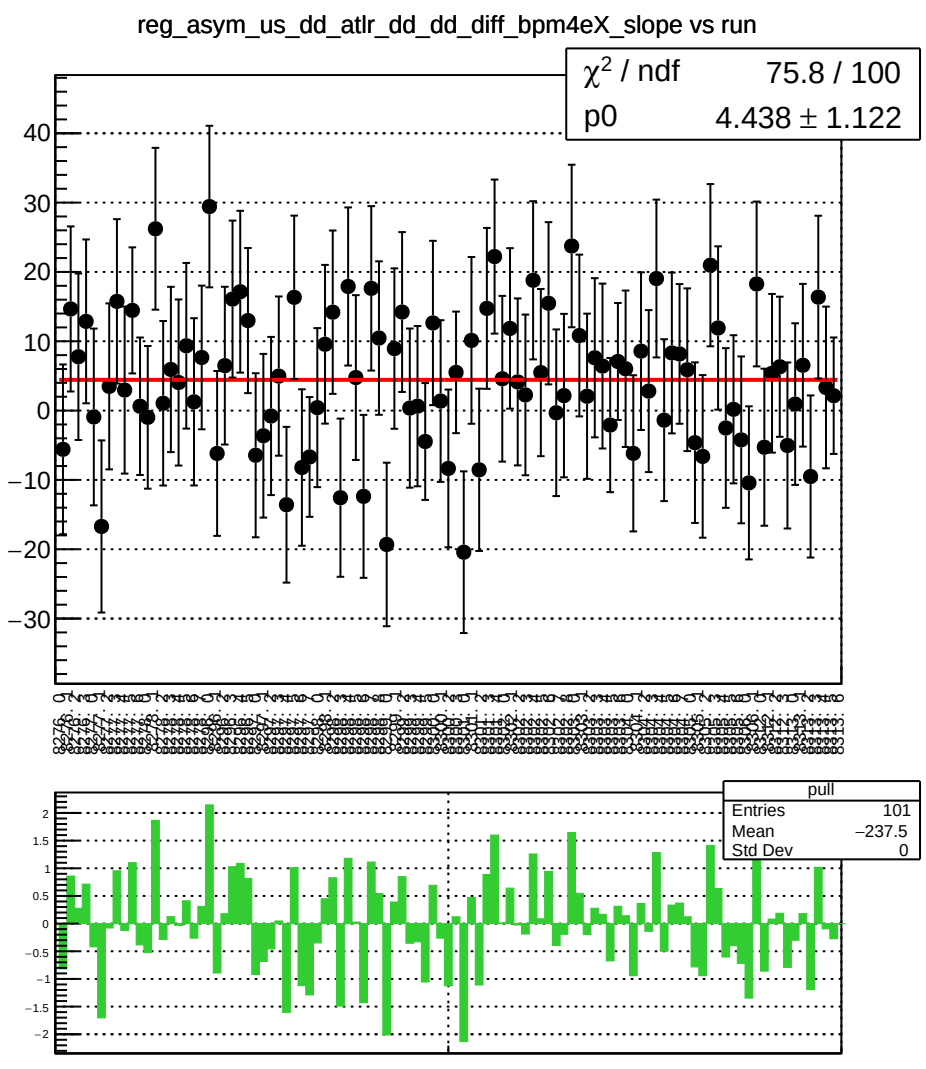

pull1D
Entries 101
Mean −0.001437
Std Dev 0.6057
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

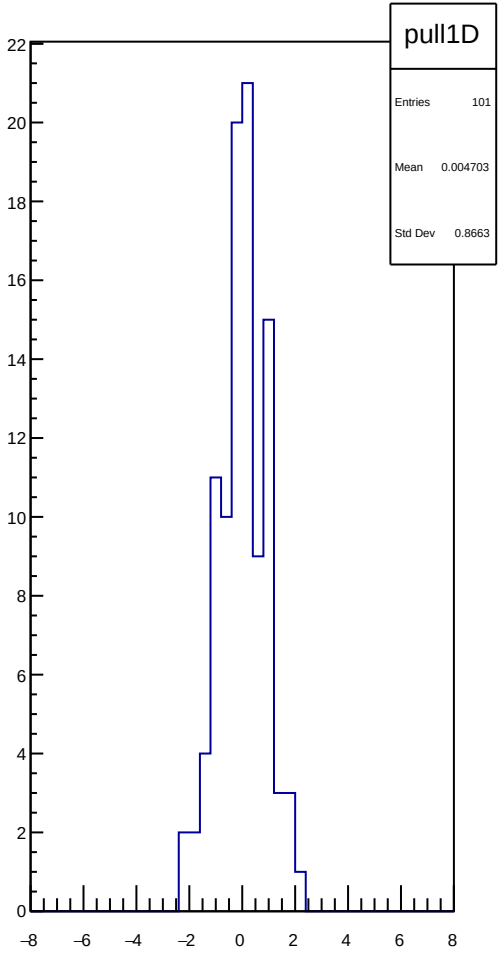

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 49.62 / 100
p0 28.9 ± 0.2869
pull
Entries 101
Mean −202.1
Std Dev 0
pull1D
Entries 101
Mean 0.03811
Std Dev 0.6999

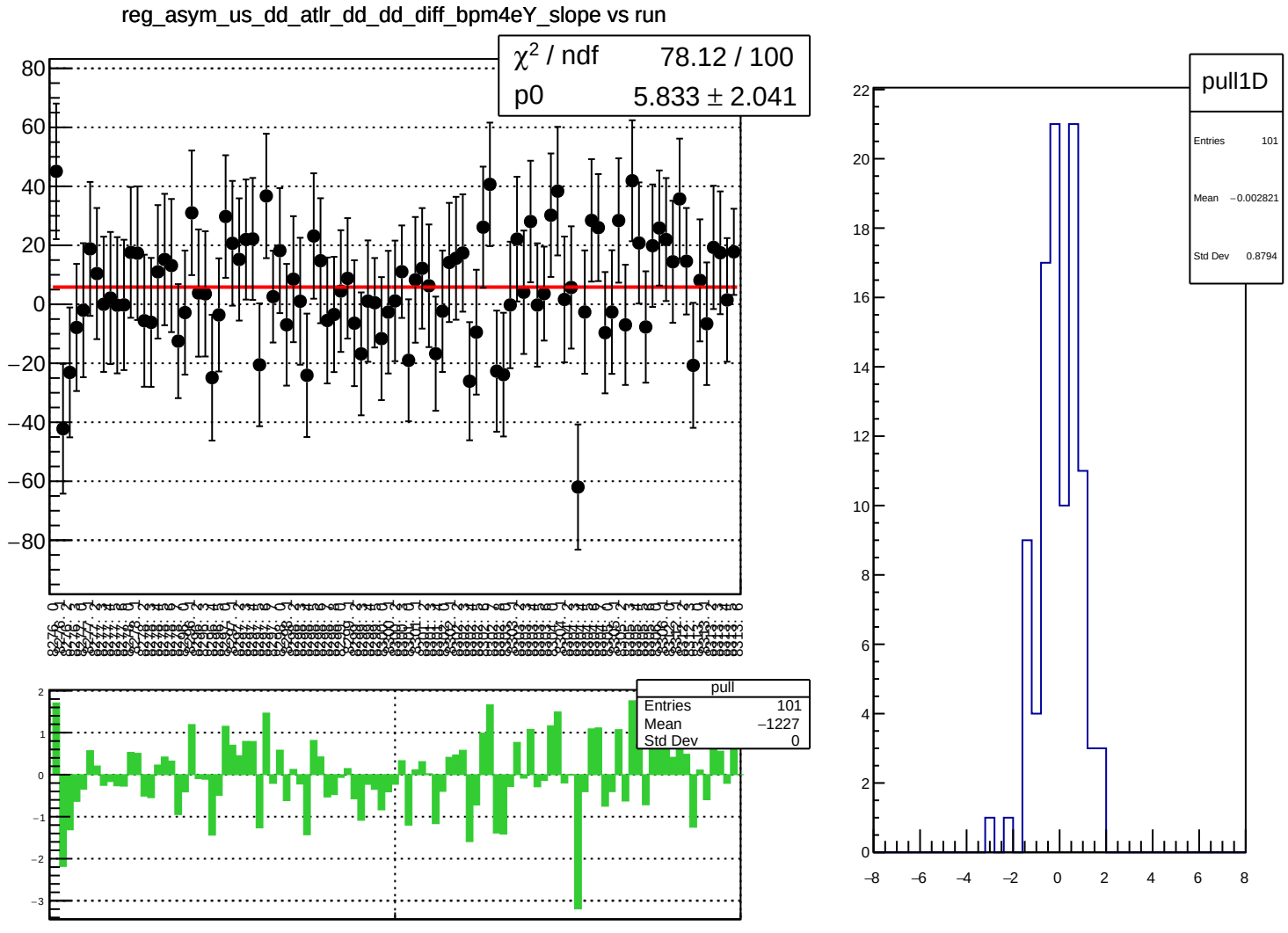

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 80.18 / 100
p0 −47.07 ± 1.004
pull
Entries 101
Mean −204.4
Std Dev 0
pull1D
Entries 101
Mean −0.008013
Std Dev 0.891

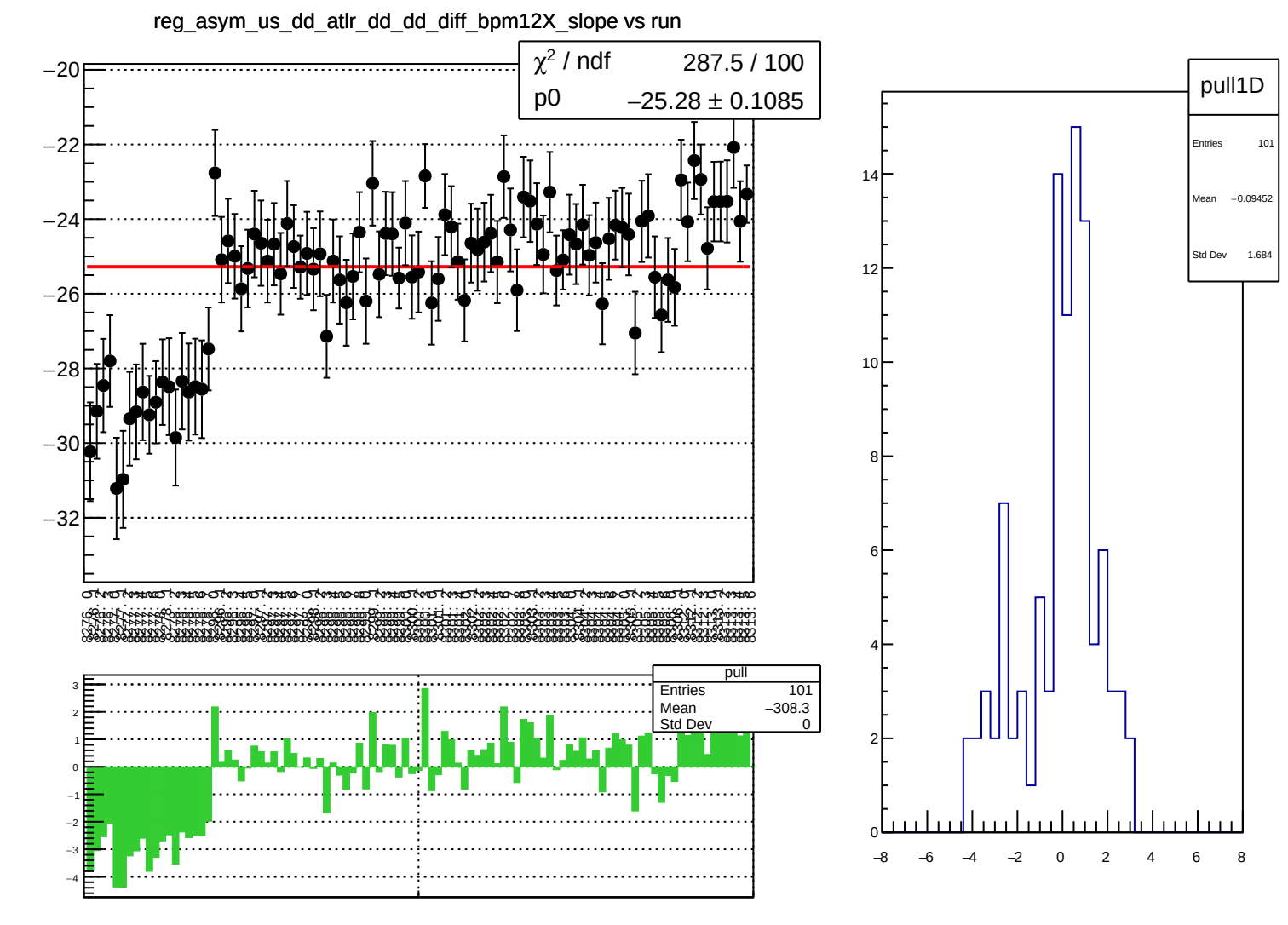

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 76.53 / 100
p0 4.679 ± 1.964
pull
Entries 101
Mean −861.5
Std Dev 0

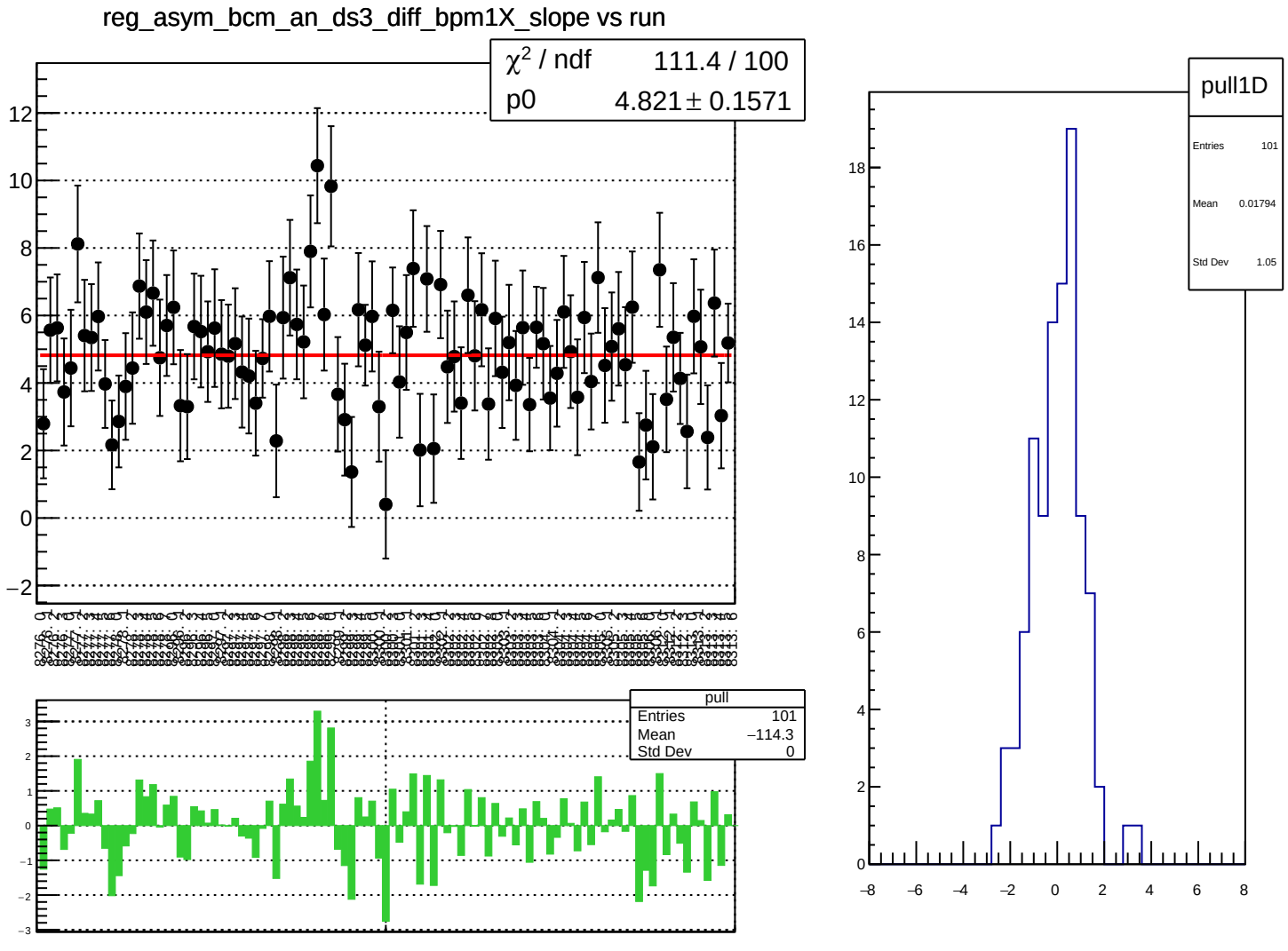

pull1D
Entries 101
Mean 0.004812
Std Dev 0.8705

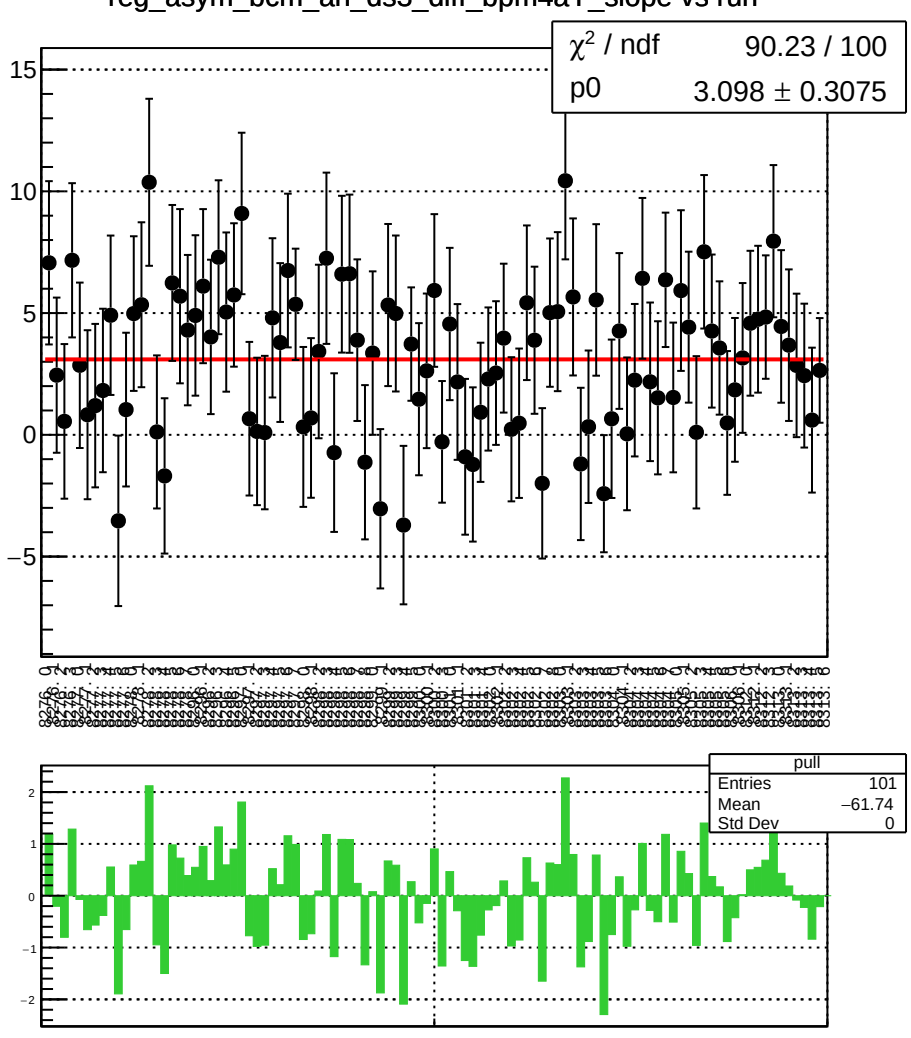

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 75.8 / 100
p0 4.438 ± 1.122
pull
Entries 101
Mean −237.5
Std Dev 0

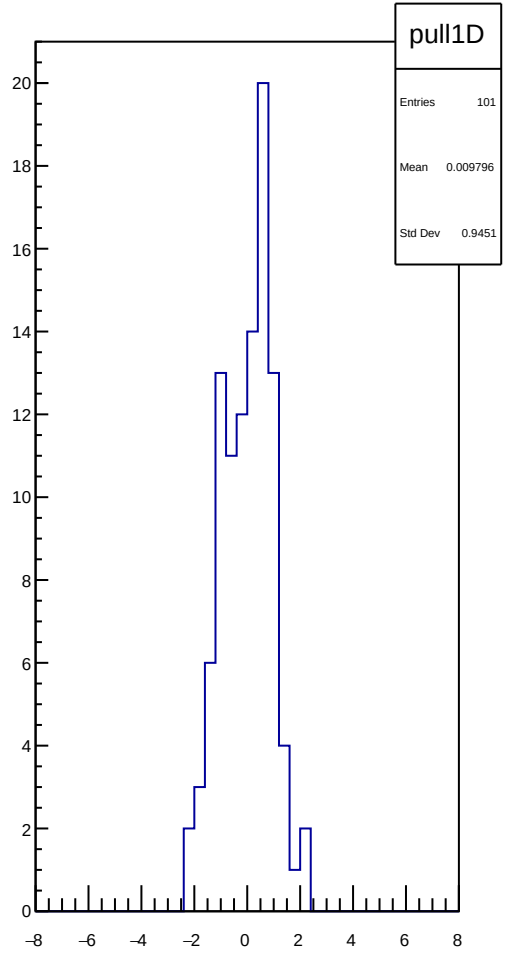

pull1D
Entries 101
Mean 0.004703
Std Dev 0.8663

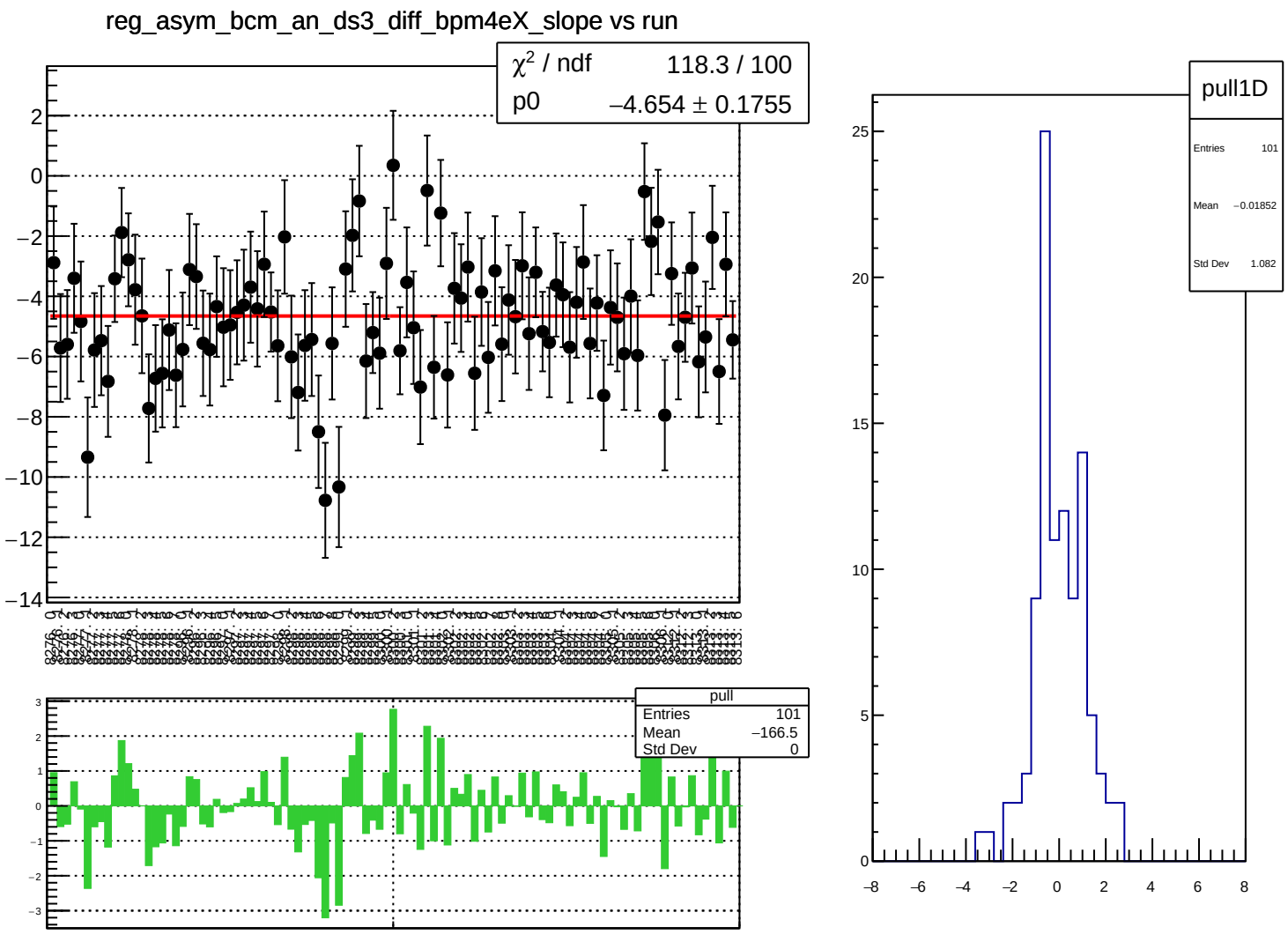

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 78.12 / 100
p0 5.833 ± 2.041
pull
Entries 101
Mean −1227
Std Dev 0
pull1D
Entries 101
Mean −0.002821
Std Dev 0.8794

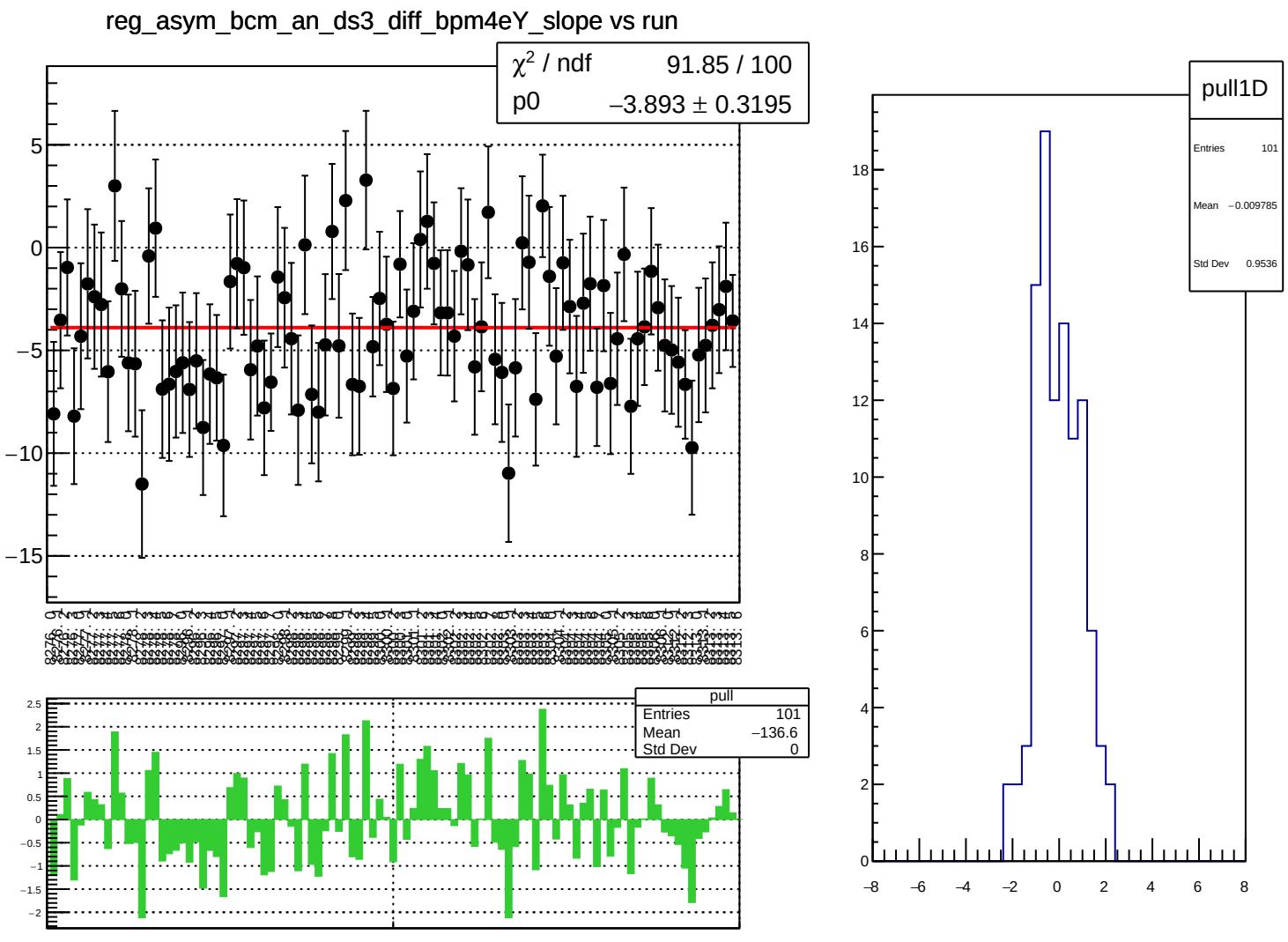

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 287.5 / 100
p0 −25.28 ± 0.1085
pull
Entries 101
Mean −308.3
Std Dev 0
pull1D
Entries 101
Mean −0.09452
Std Dev 1.684

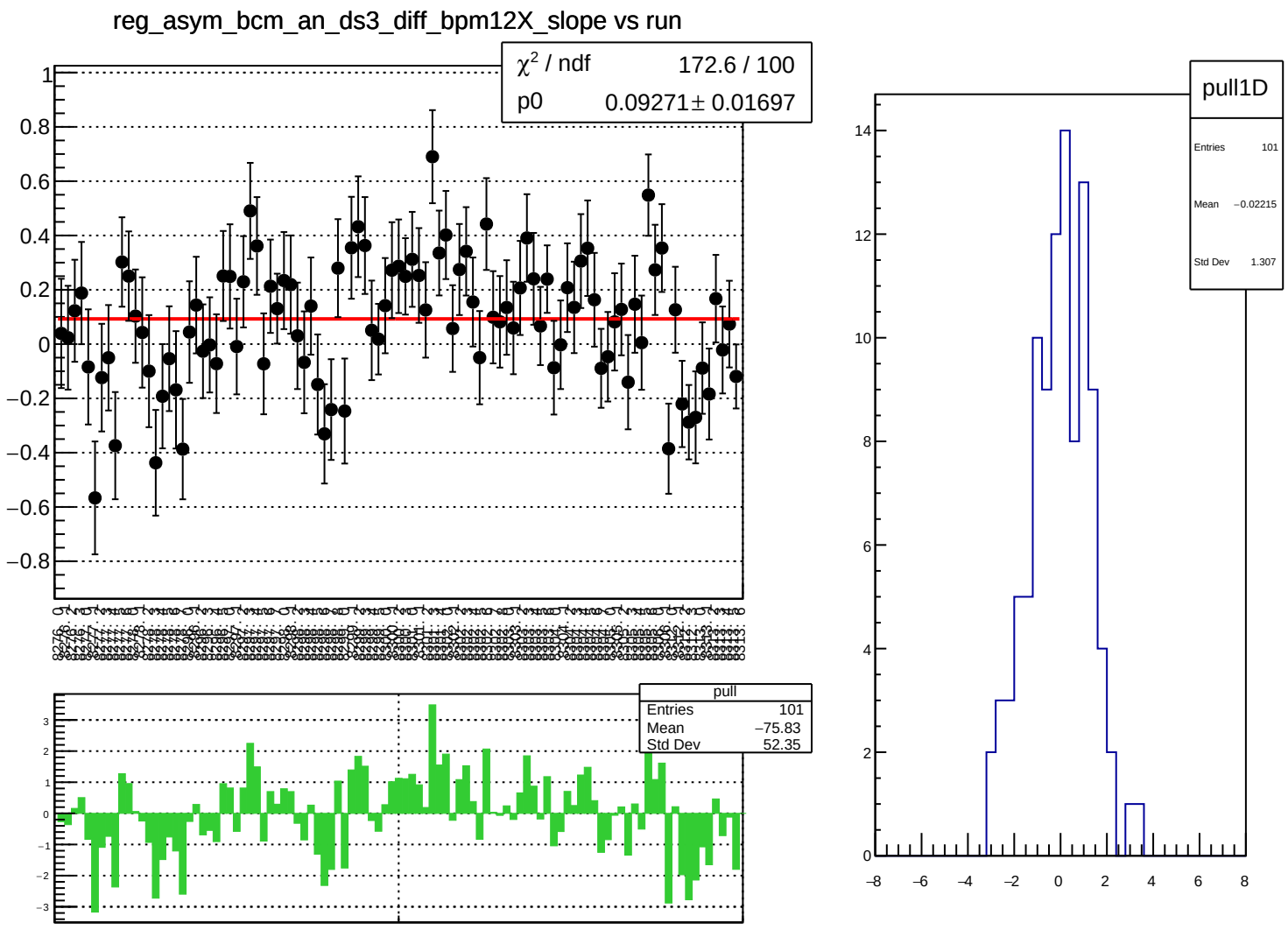

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 111.4 / 100
p0 4.821 ± 0.1571
pull
Entries 101
Mean −114.3
Std Dev 0
pull1D
Entries 101
Mean 0.01794
Std Dev 1.05

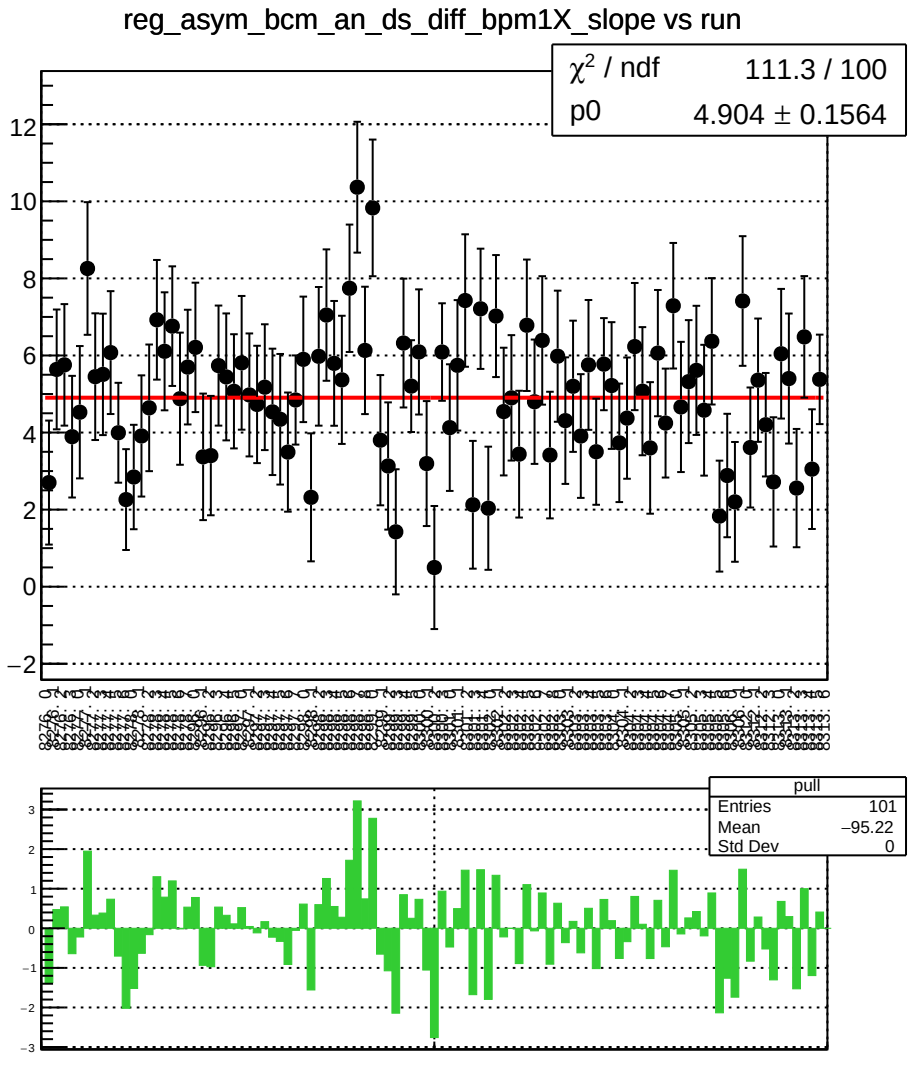

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 90.23 / 100
p0 3.098 ± 0.3075
pull
Entries 101
Mean −61.74
Std Dev 0

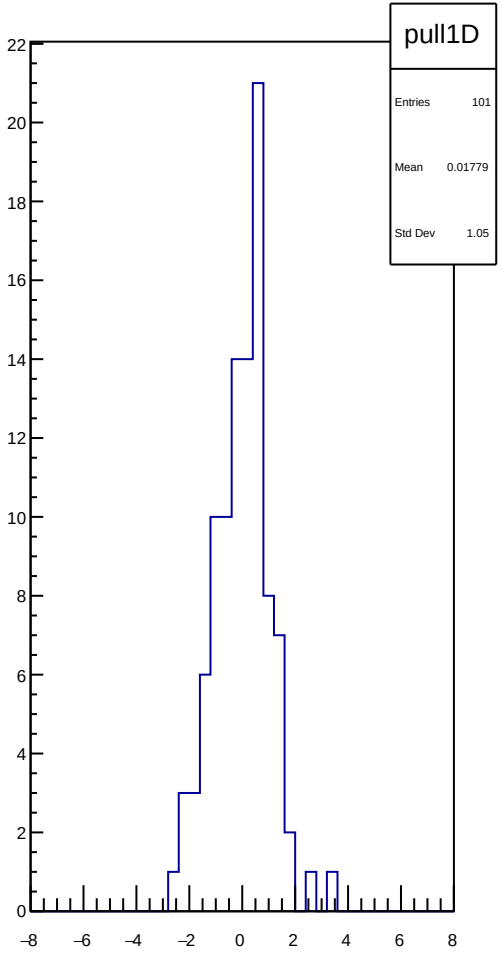

pull1D
Entries 101
Mean 0.009796
Std Dev 0.9451

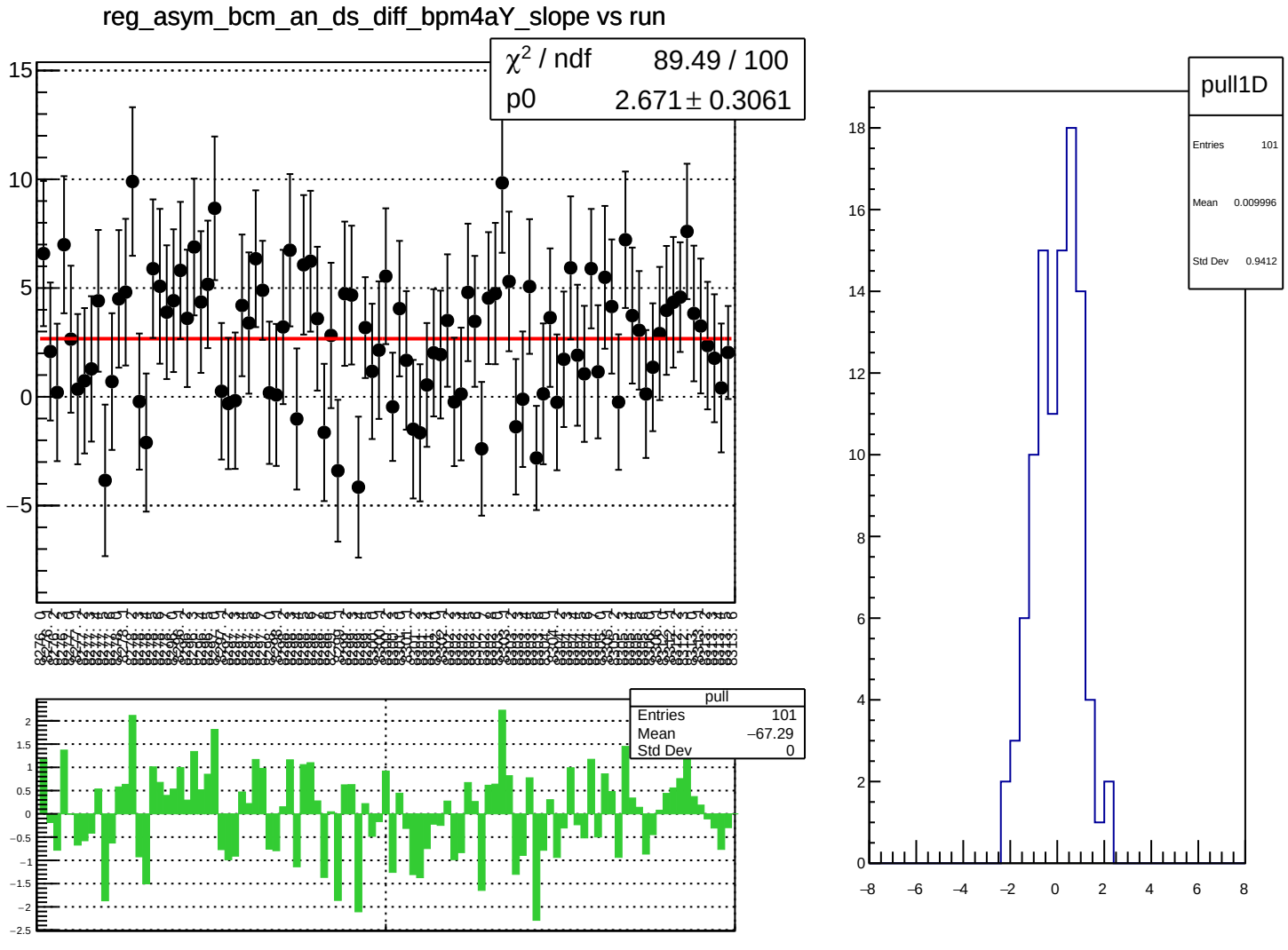

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 118.3 / 100
p0 −4.654 ± 0.1755
pull
Entries 101
Mean −166.5
Std Dev 0
pull1D
Entries 101
Mean −0.01852
Std Dev 1.082

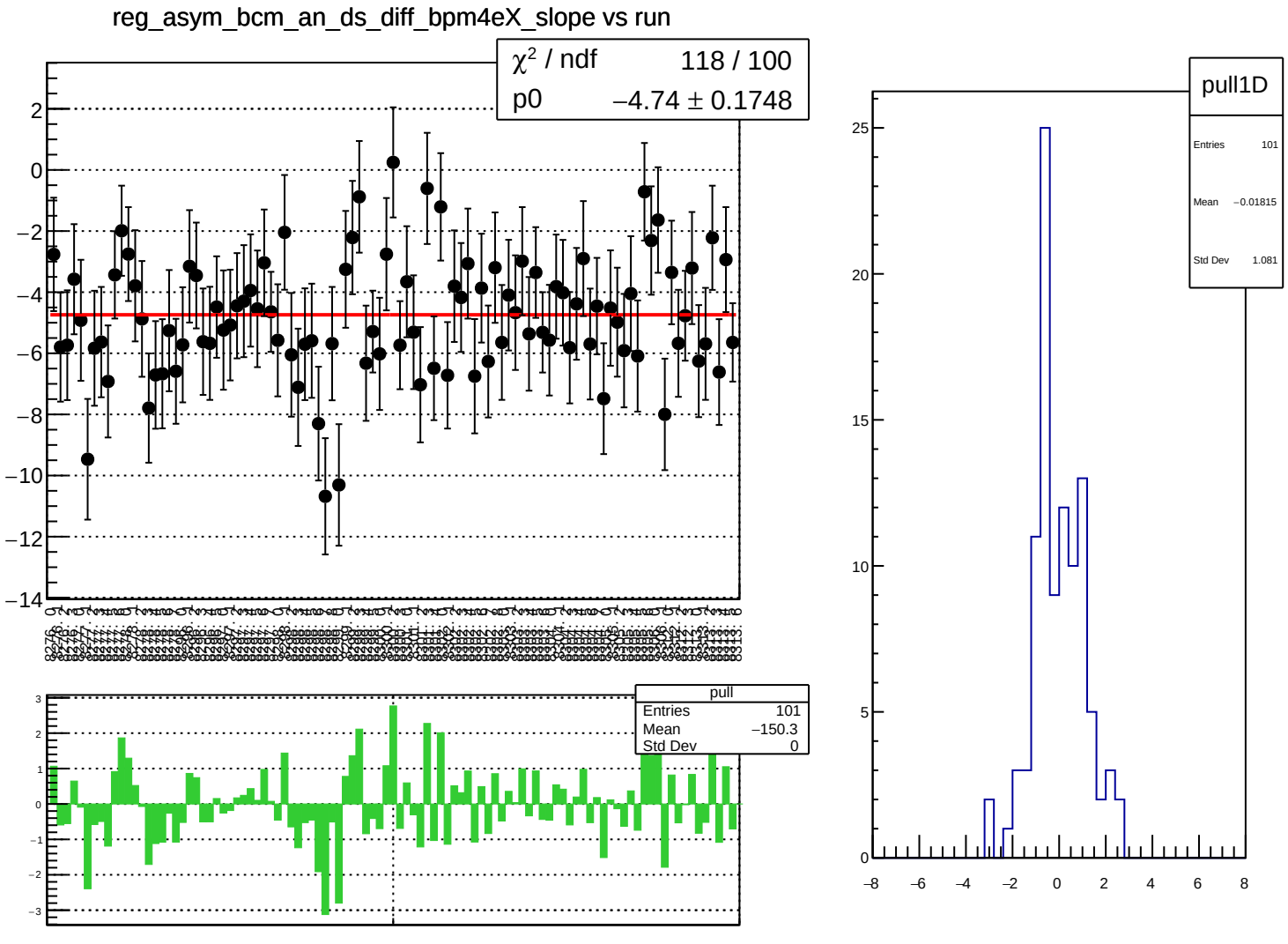

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 91.85 / 100
p0 −3.893 ± 0.3195
pull
Entries 101
Mean −136.6
Std Dev 0
pull1D
Entries 101
Mean −0.009785
Std Dev 0.9536

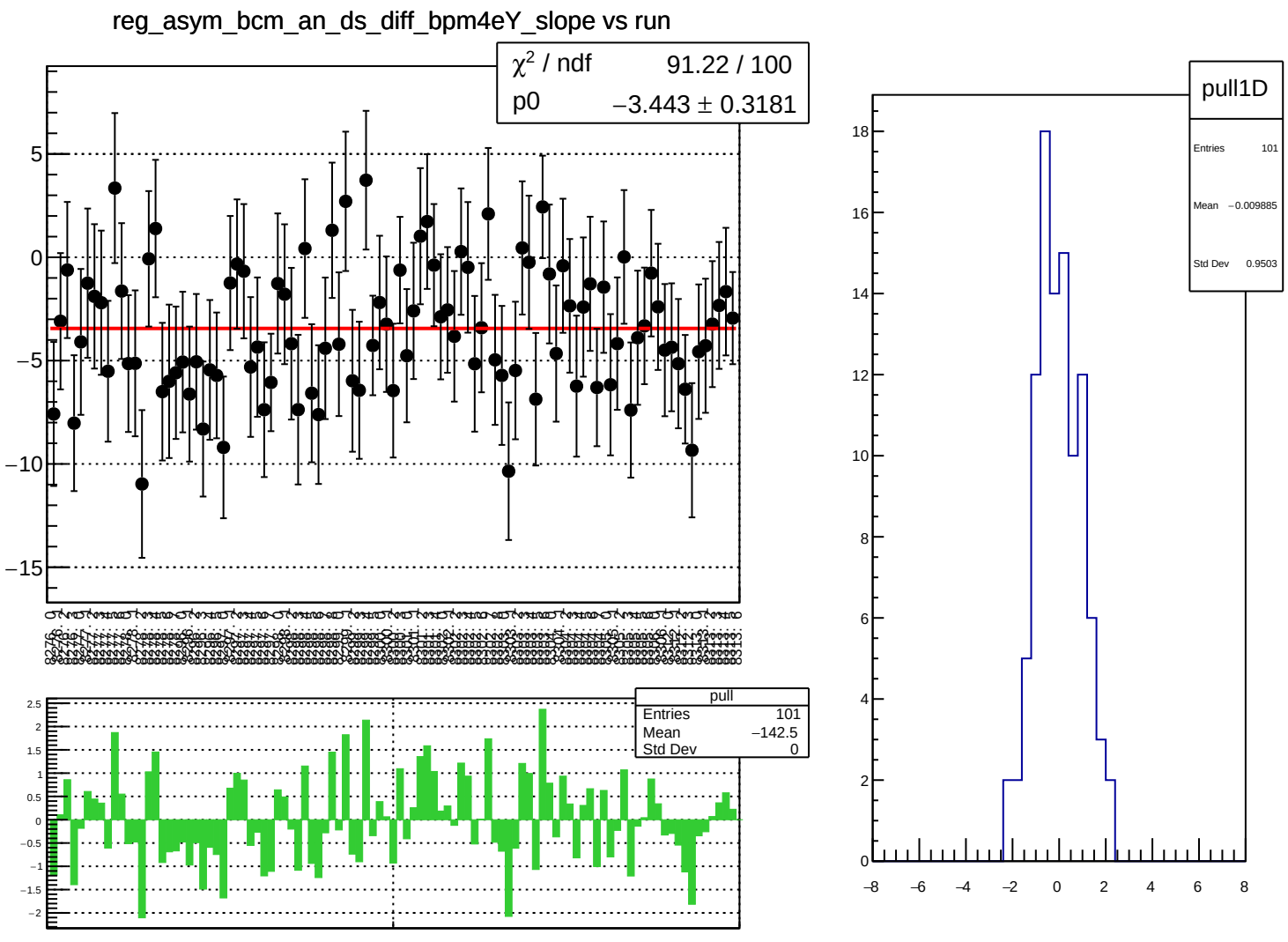

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 172.6 / 100
p0 0.09271 ± 0.01697
pull
Entries 101
Mean −75.83
Std Dev 52.35
pull1D
Entries 101
Mean −0.02215
Std Dev 1.307

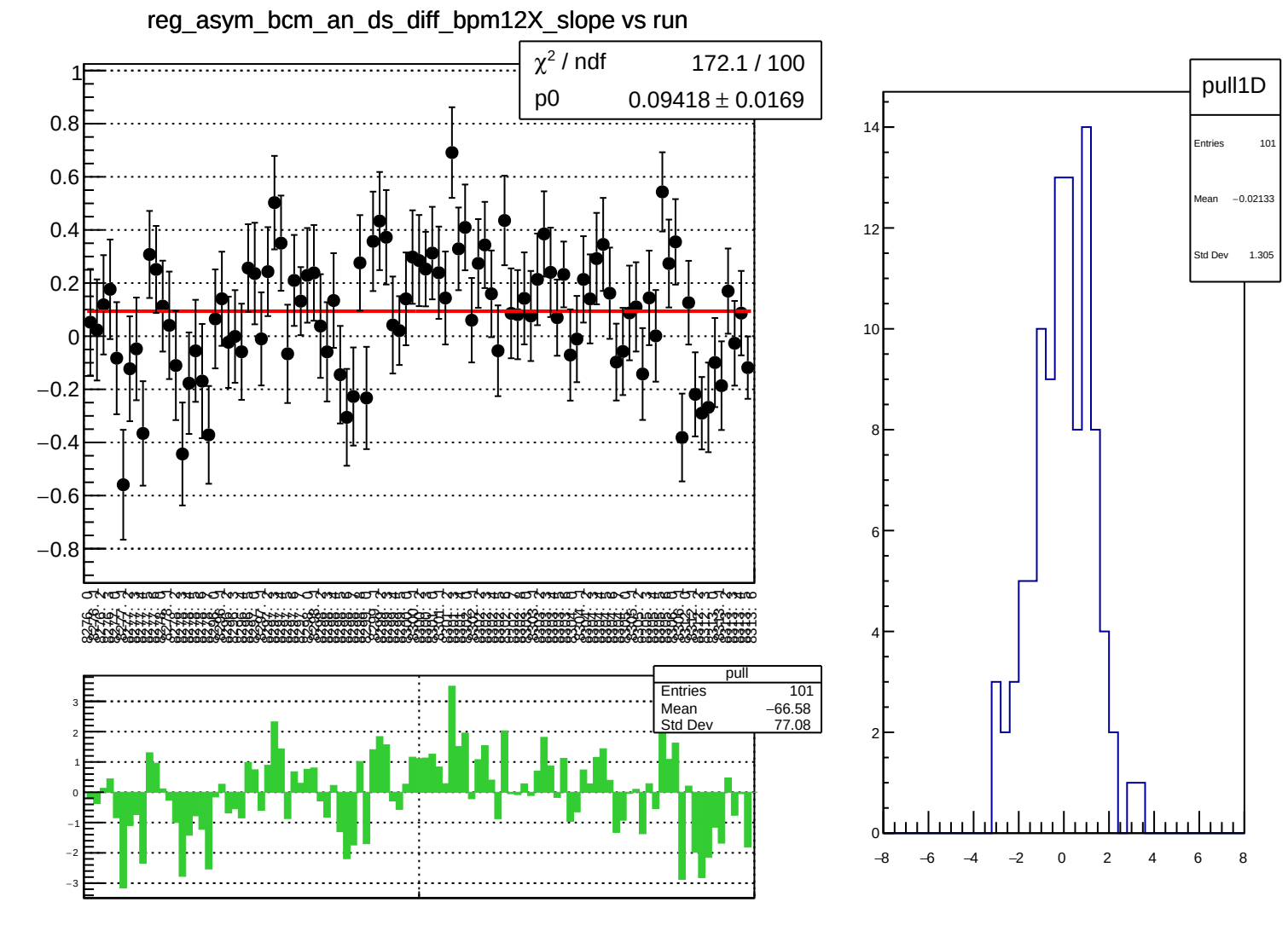

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 111.3 / 100
p0 4.904 ± 0.1564
pull
Entries 101
Mean −95.22
Std Dev 0

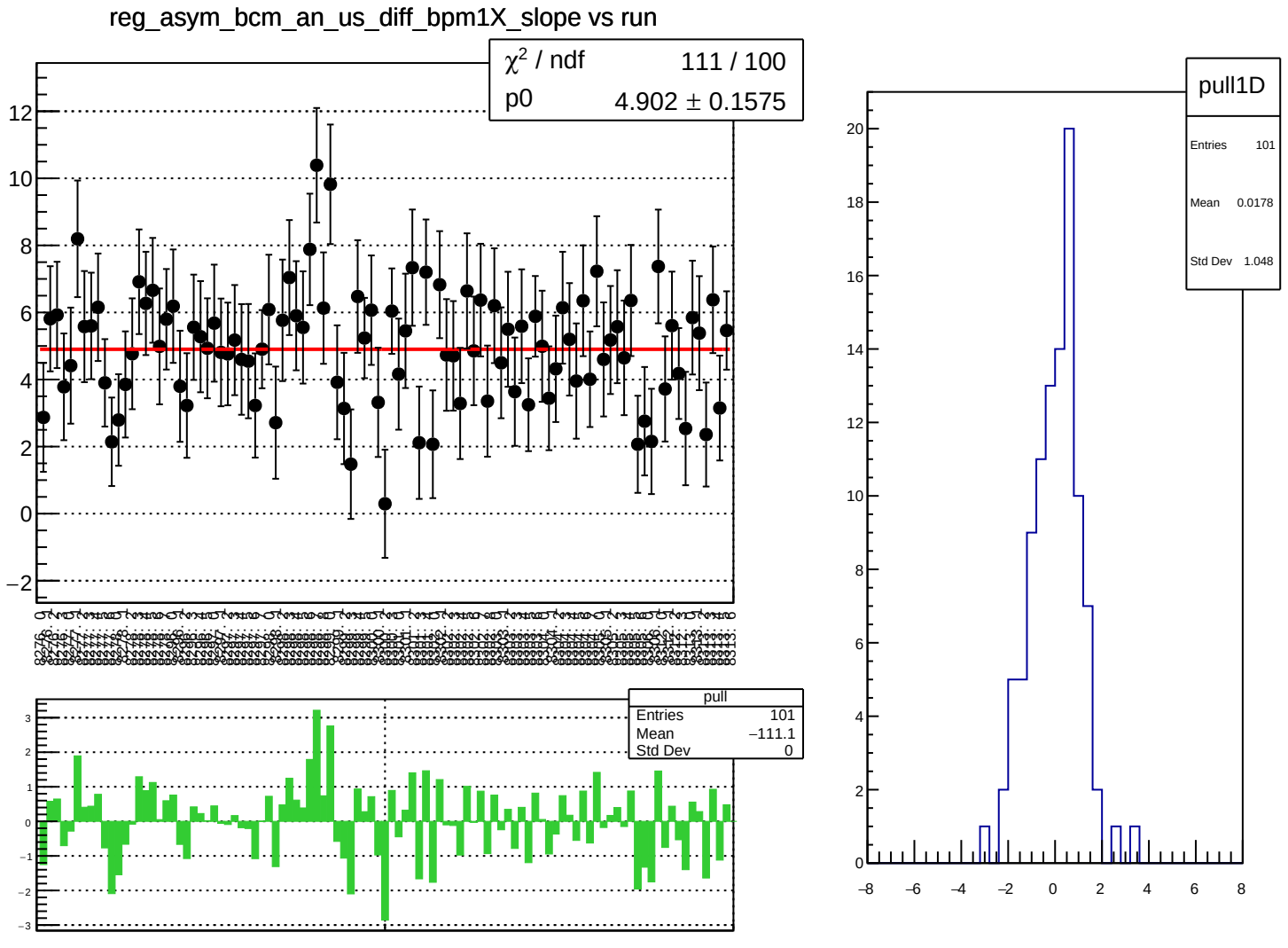

pull1D
Entries 101
Mean 0.01779
Std Dev 1.05

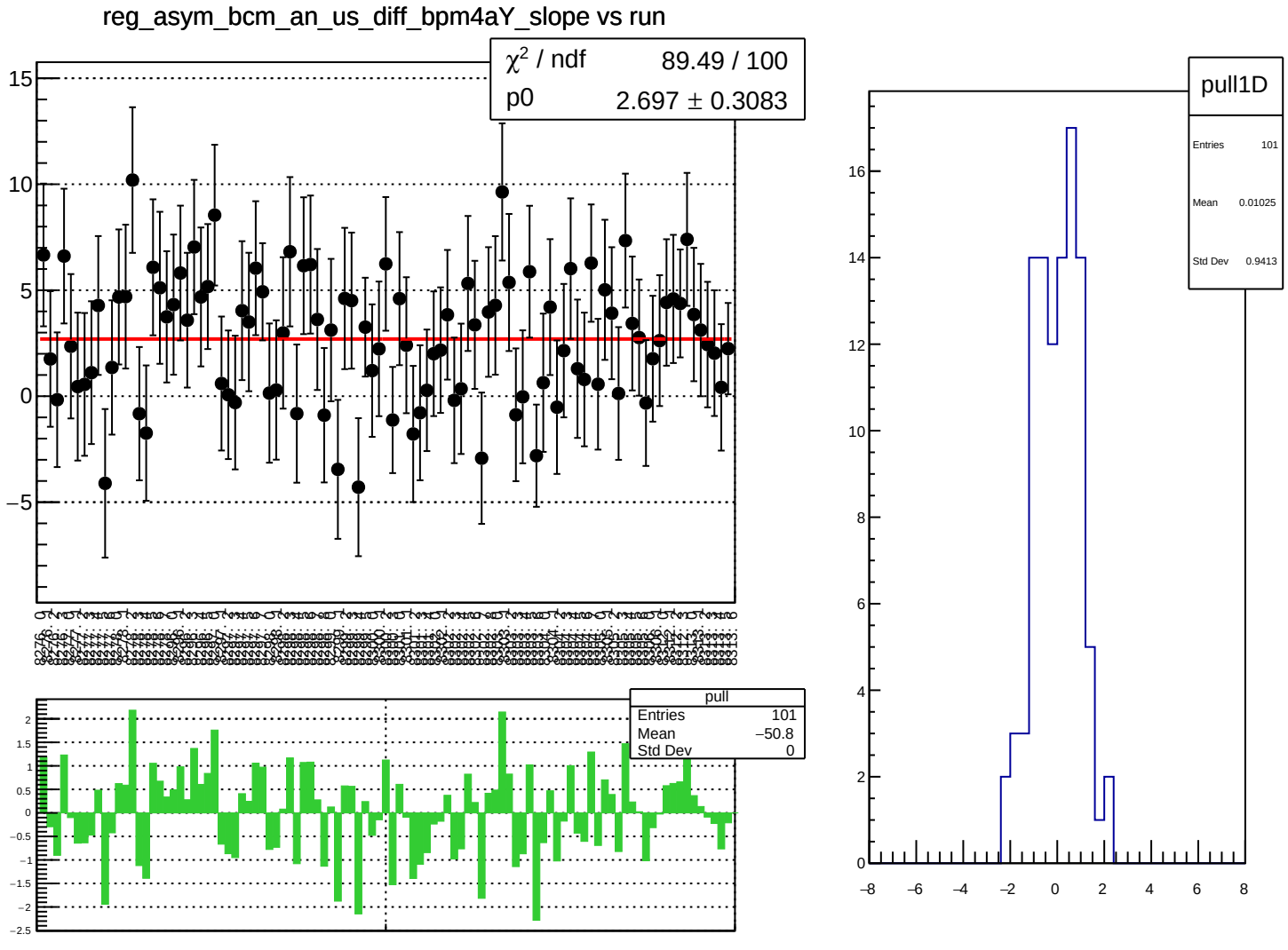

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 89.49 / 100
p0 2.671 ± 0.3061
pull
Entries 101
Mean −67.29
Std Dev 0
pull1D
Entries 101
Mean 0.009996
Std Dev 0.9412

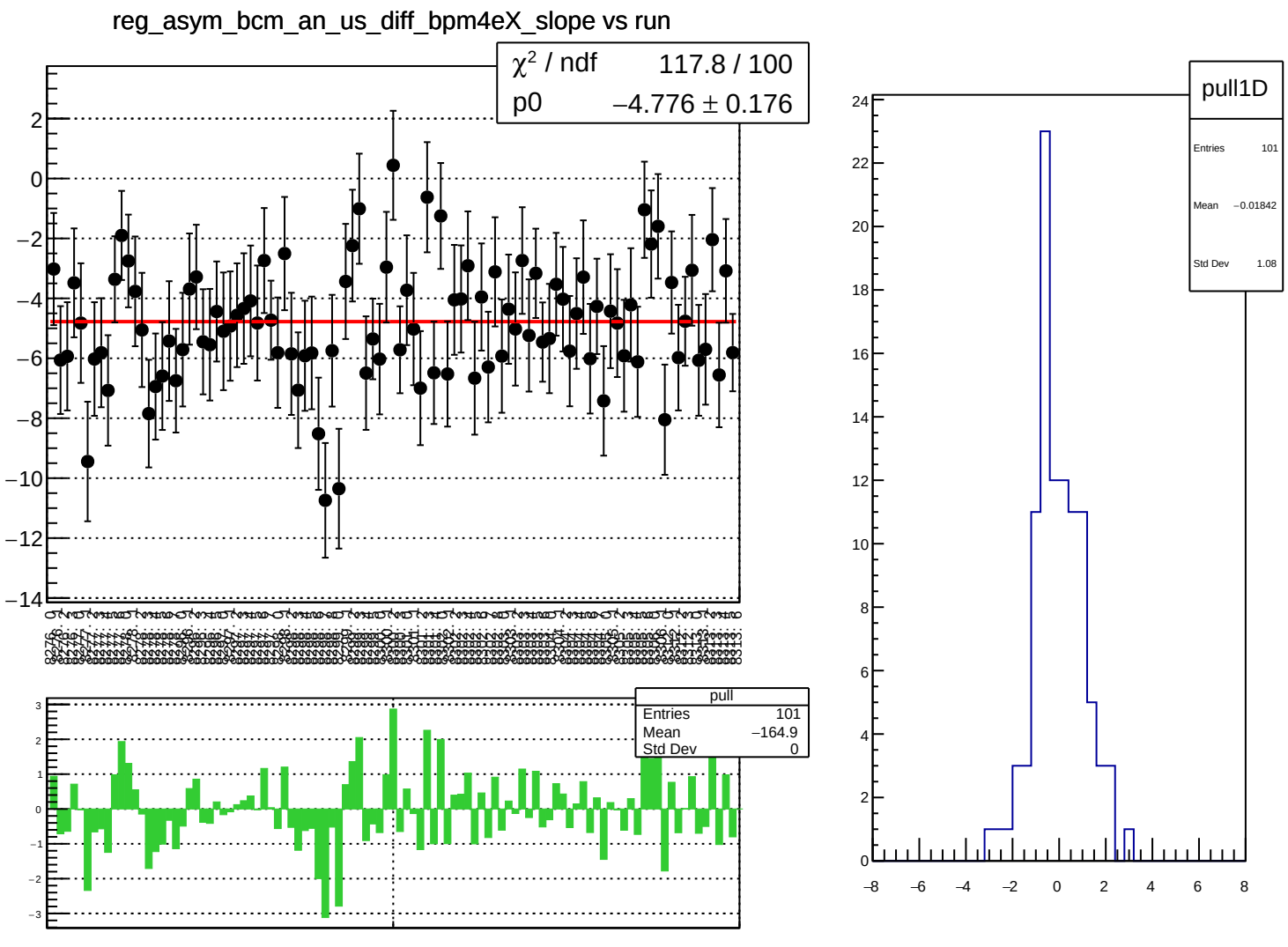

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 118 / 100
p0 −4.74 ± 0.1748
pull
Entries 101
Mean −150.3
Std Dev 0
pull1D
Entries 101
Mean −0.01815
Std Dev 1.081

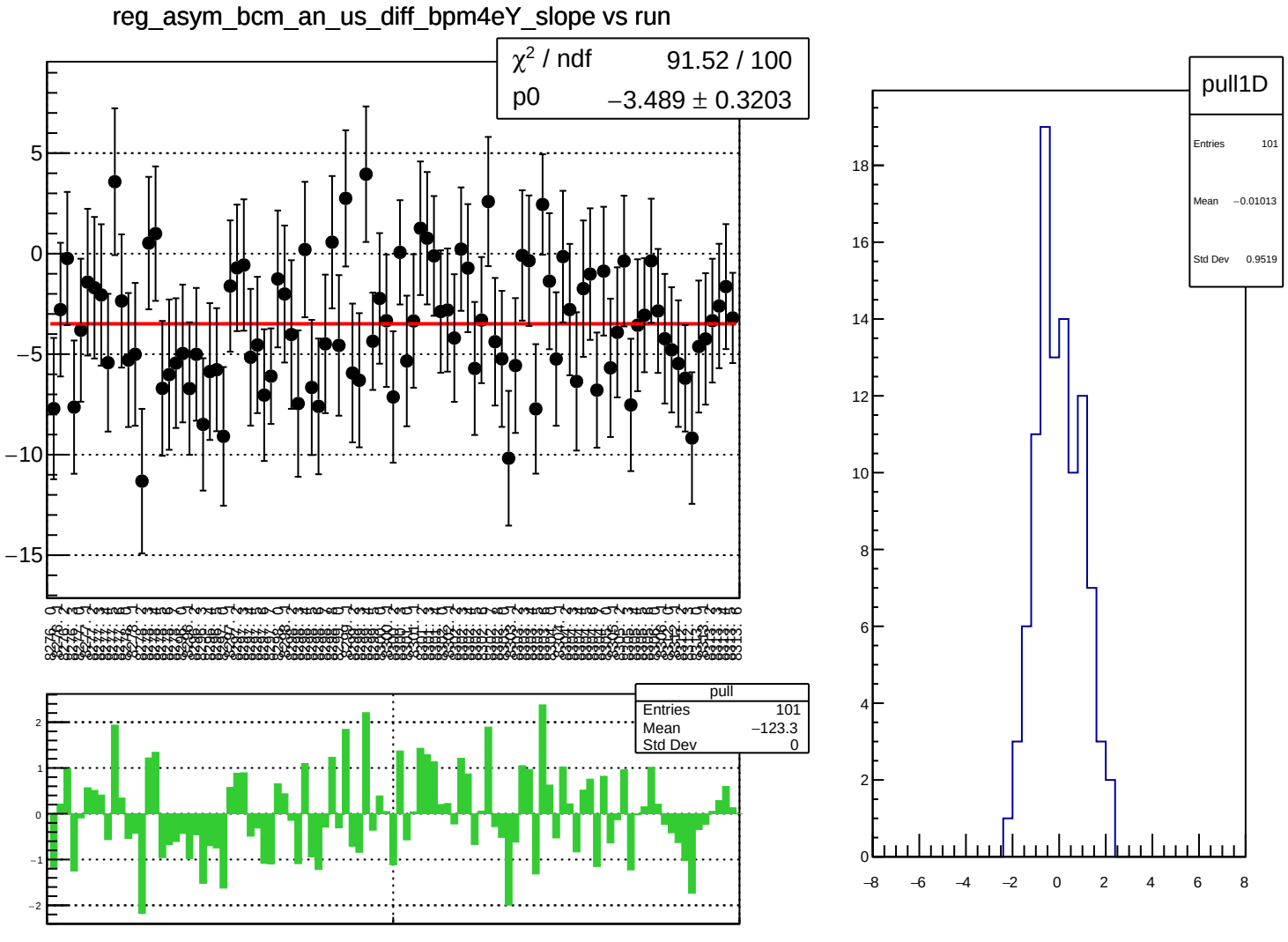

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 91.22 / 100
p0 −3.443 ± 0.3181
pull
Entries 101
Mean −142.5
Std Dev 0
pull1D
Entries 101
Mean −0.009885
Std Dev 0.9503

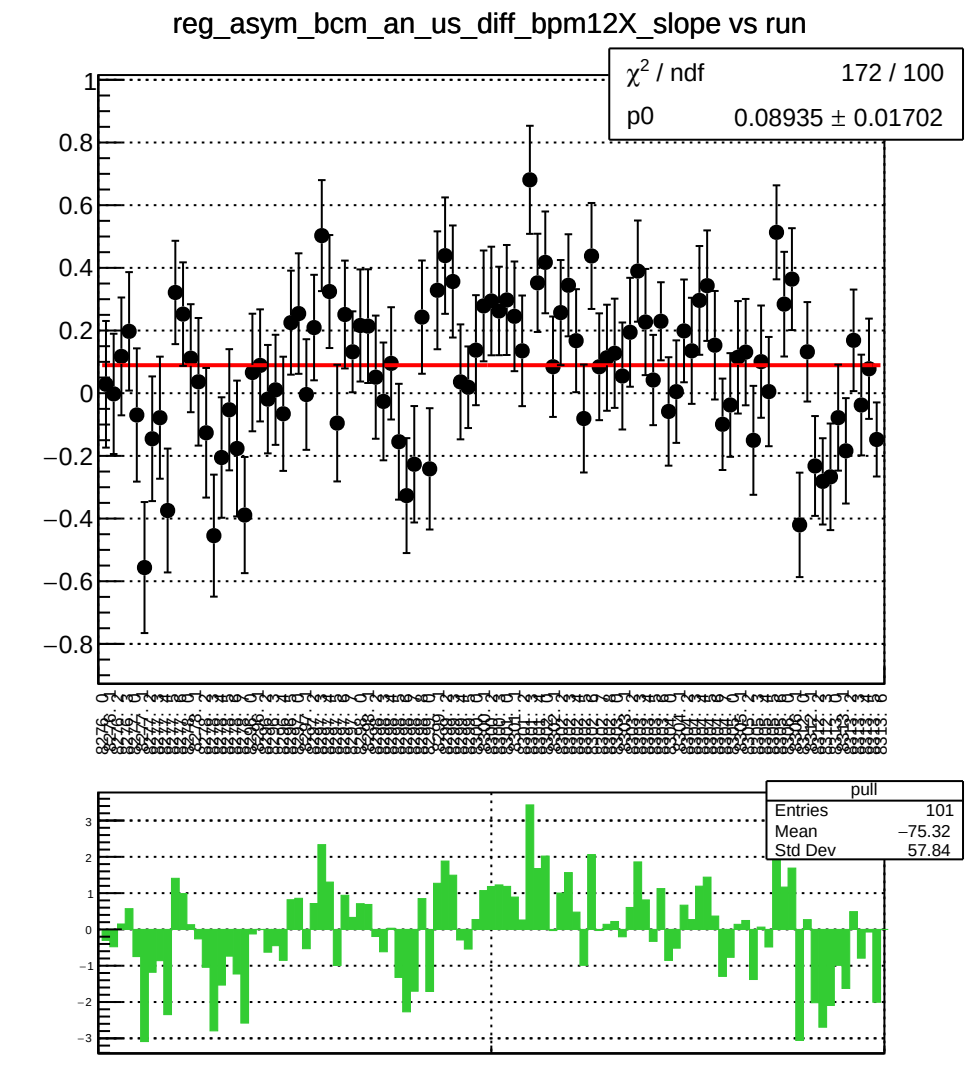

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 172.1 / 100
p0 0.09418 ± 0.0169
pull
Entries 101
Mean −66.58
Std Dev 77.08
pull1D
Entries 101
Mean −0.02133
Std Dev 1.305

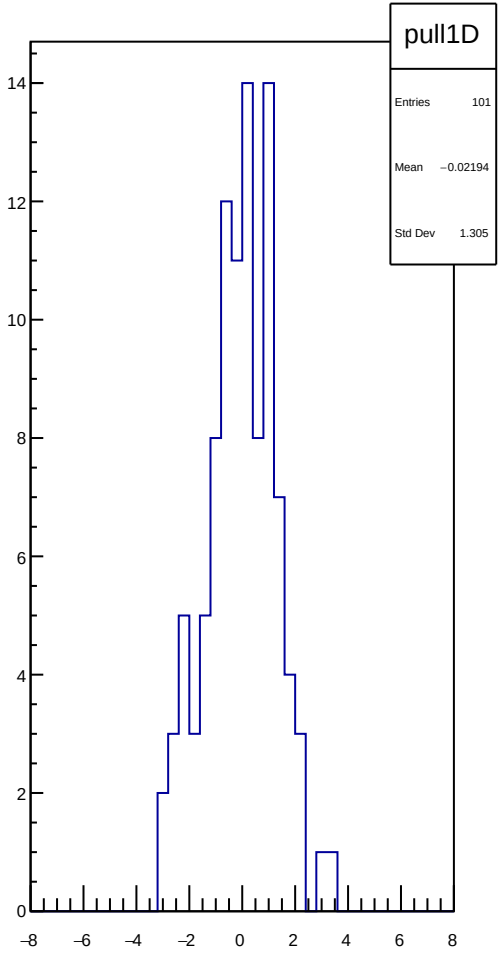

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 111 / 100
p0 4.902 ± 0.1575
pull
Entries 101
Mean −111.1
Std Dev 0
pull1D
Entries 101
Mean 0.0178
Std Dev 1.048

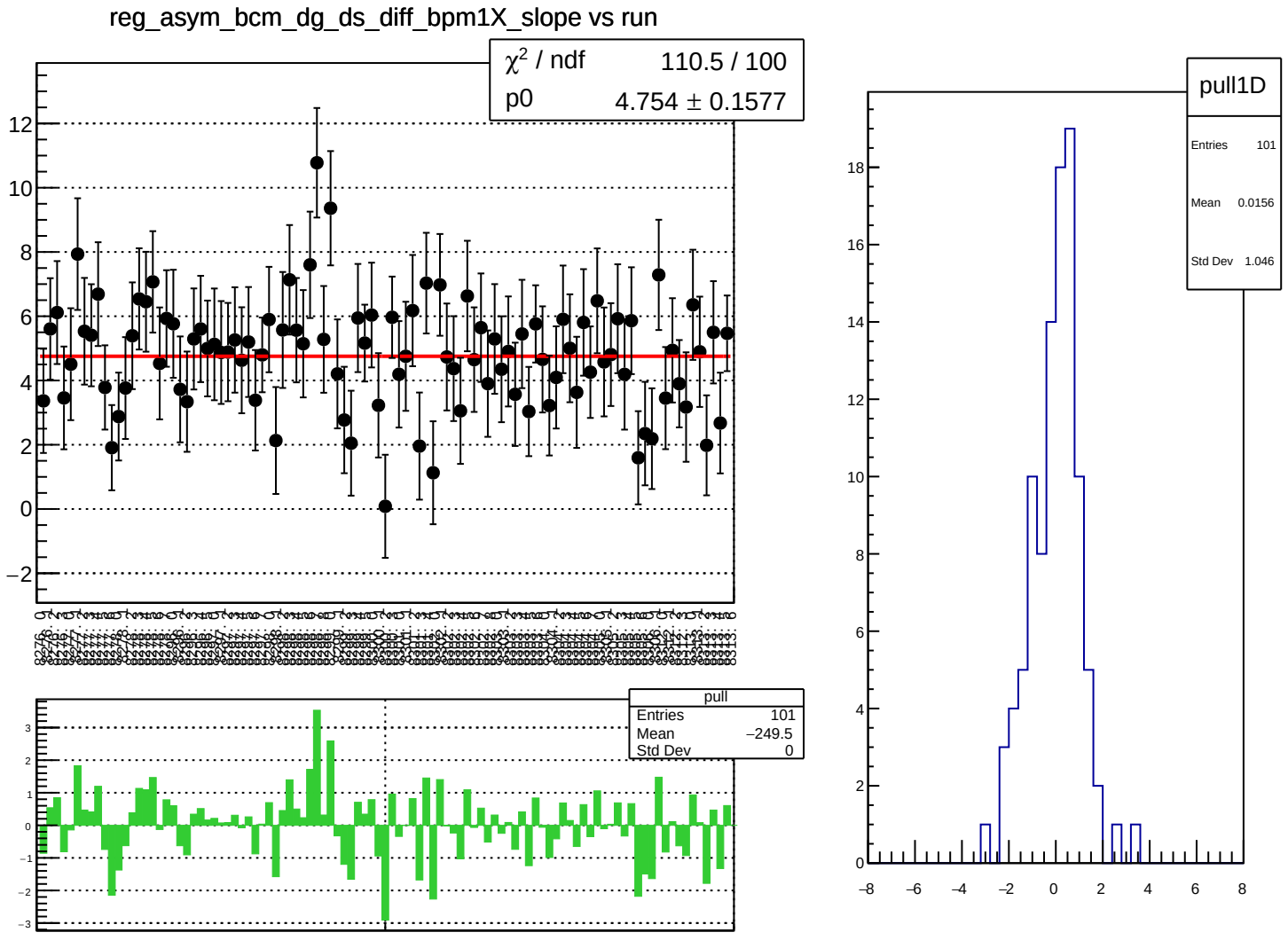

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 89.49 / 100
p0 2.697 ± 0.3083
pull
Entries 101
Mean −50.8
Std Dev 0
pull1D
Entries 101
Mean 0.01025
Std Dev 0.9413

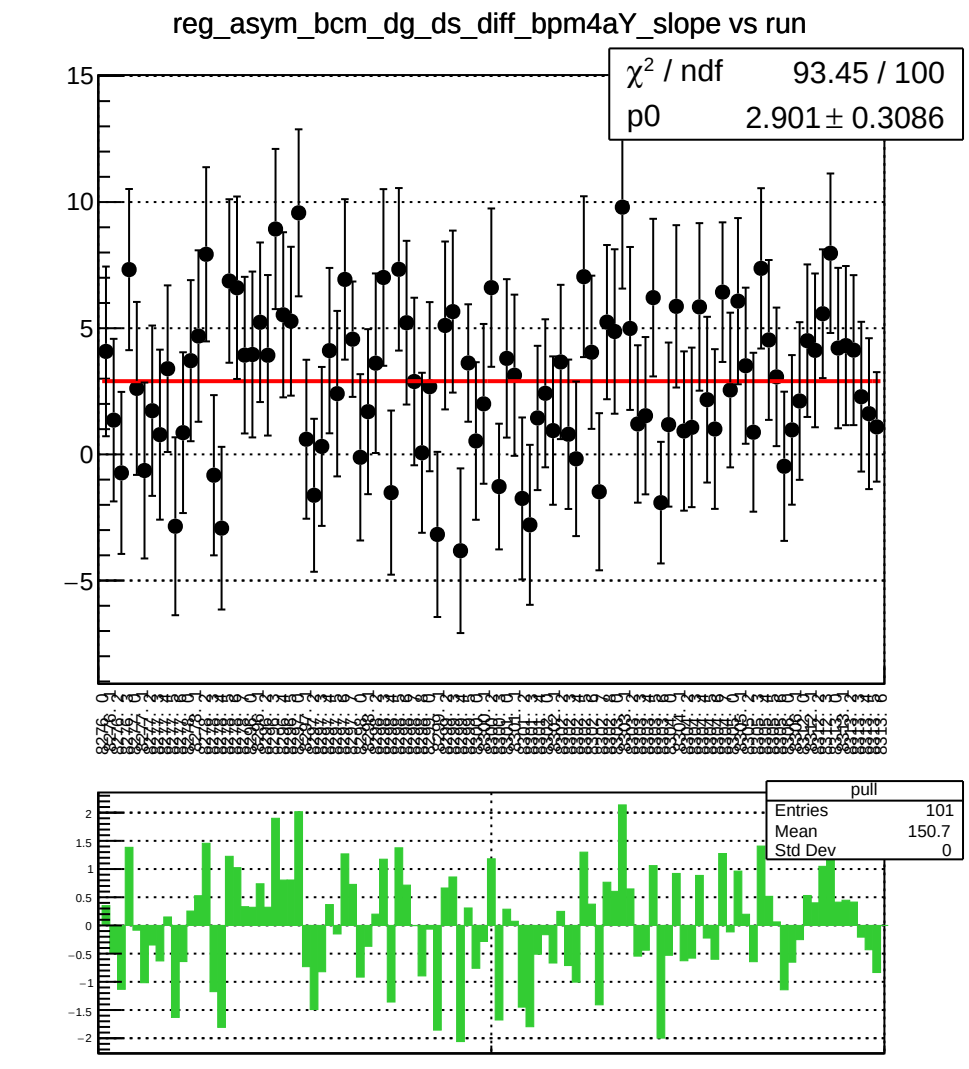

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 117.8 / 100
p0 −4.776 ± 0.176
pull
Entries 101
Mean −164.9
Std Dev 0
pull1D
Entries 101
Mean −0.01842
Std Dev 1.08

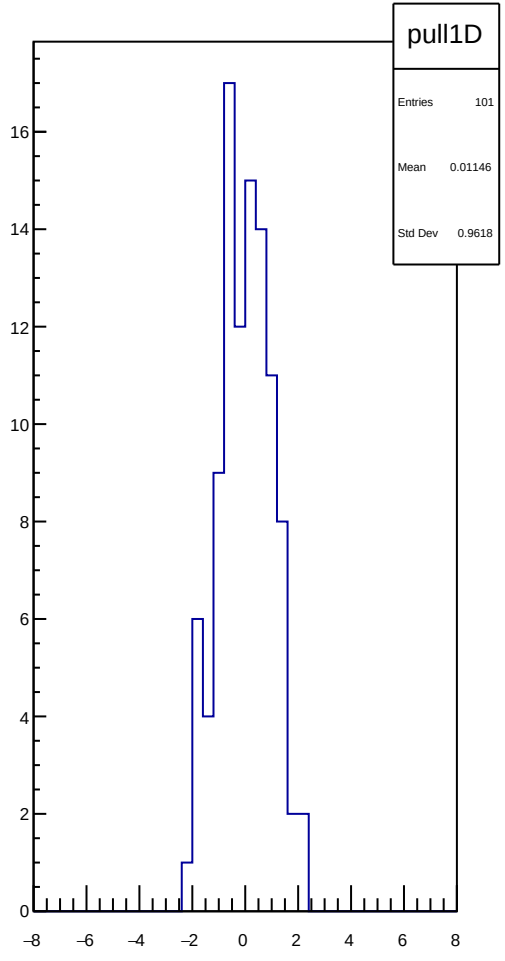

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 91.52 / 100
p0 −3.489 ± 0.3203
pull
Entries 101
Mean −123.3
Std Dev 0
pull1D
Entries 101
Mean −0.01013
Std Dev 0.9519

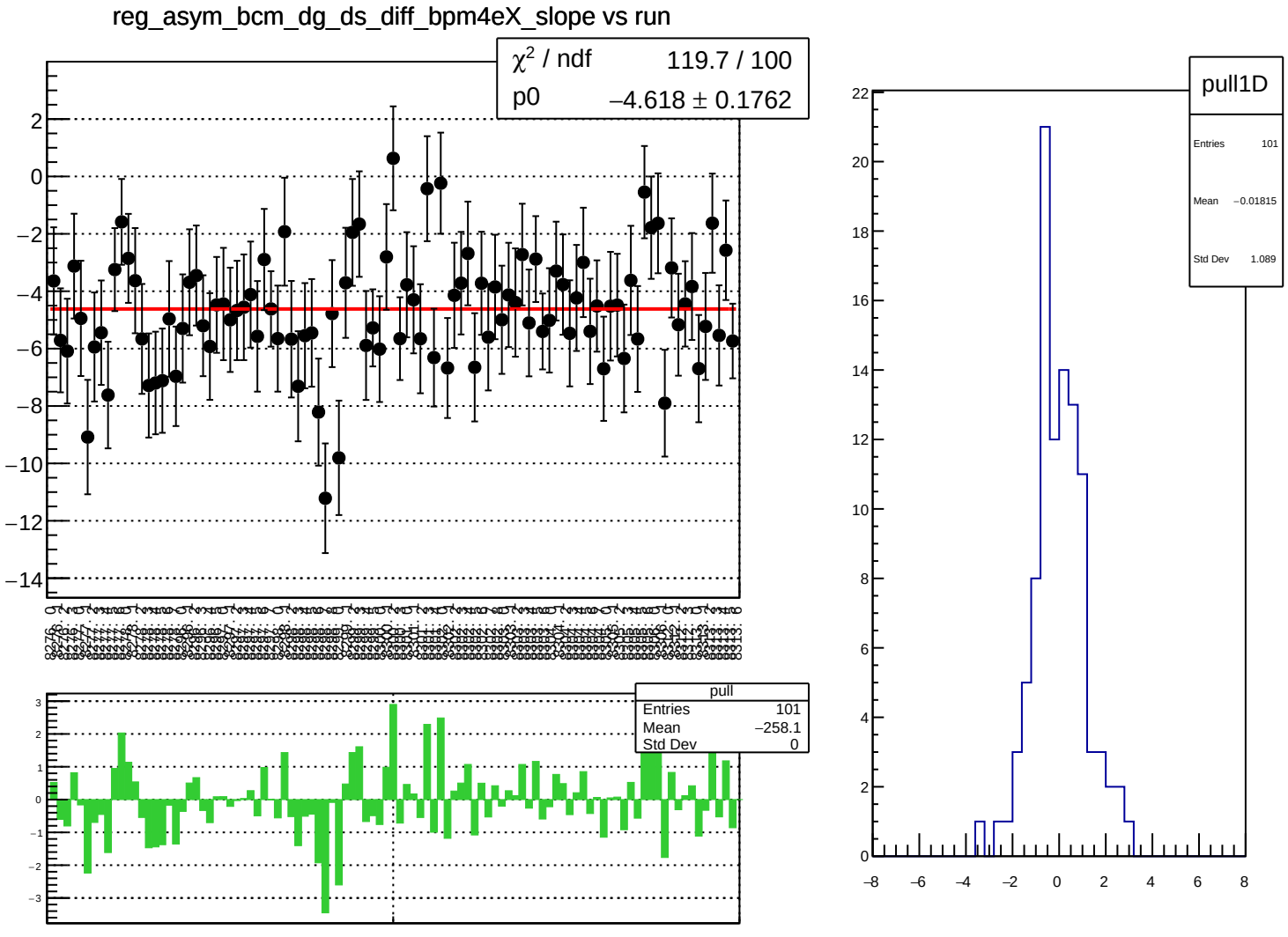

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 172 / 100
p0 0.08935 ± 0.01702
pull
Entries 101
Mean −75.32
Std Dev 57.84

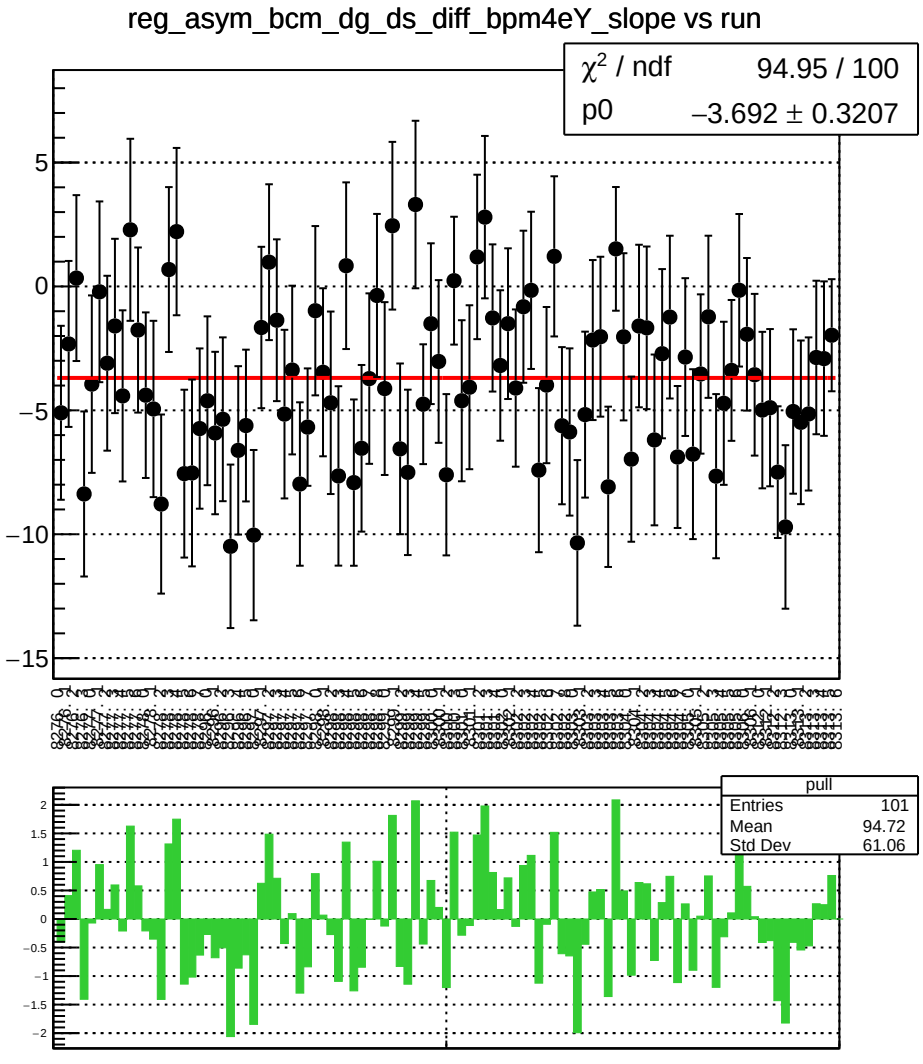

pull1D
Entries 101
Mean −0.02194
Std Dev 1.305

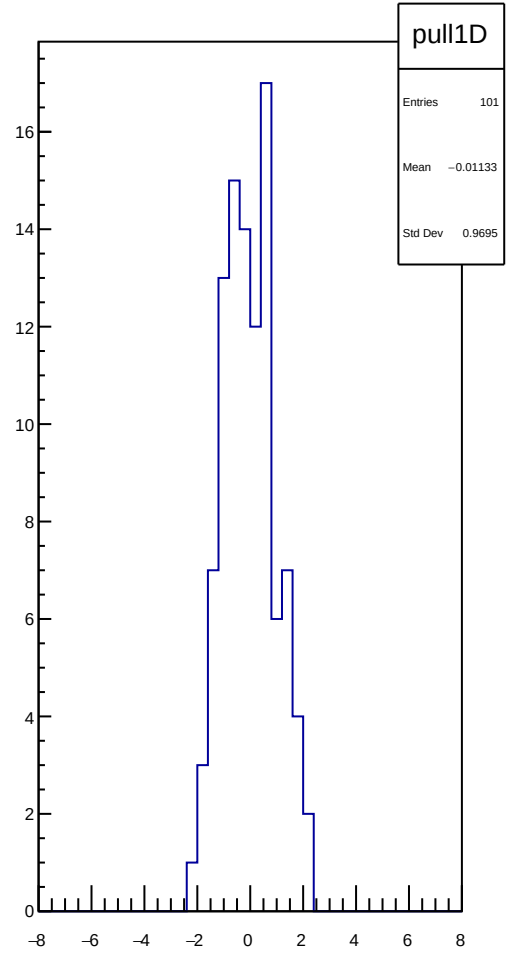

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 110.5 / 100
p0 4.754 ± 0.1577
pull
Entries 101
Mean −249.5
Std Dev 0
pull1D
Entries 101
Mean 0.0156
Std Dev 1.046

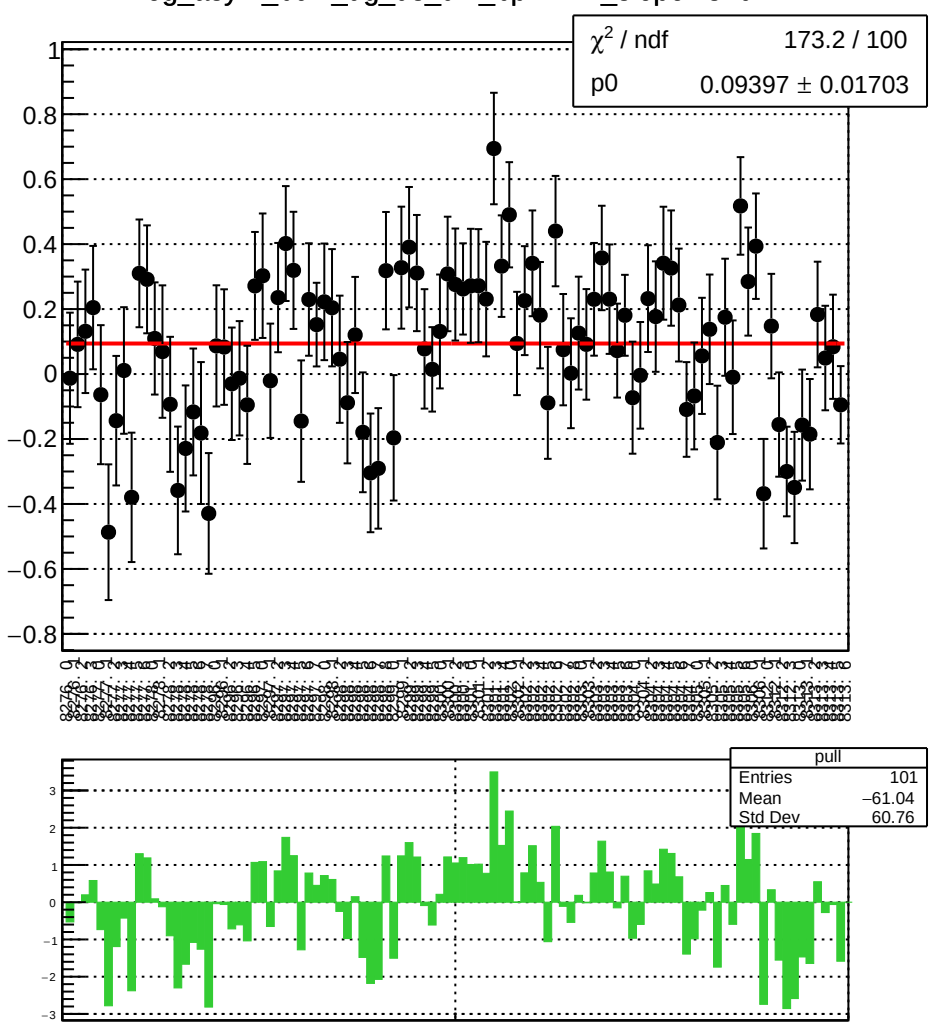

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 93.45 / 100
p0 2.901 ± 0.3086
pull
Entries 101
Mean 150.7
Std Dev 0

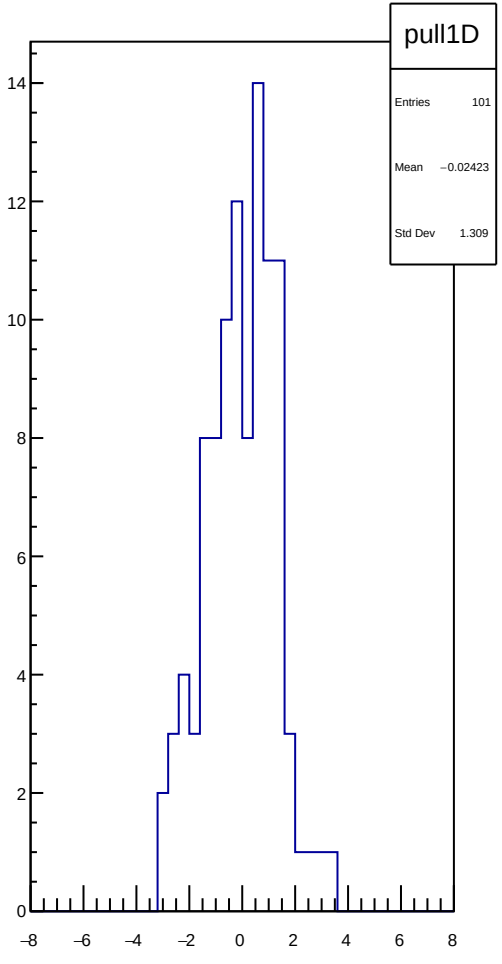

pull1D
Entries 101
Mean 0.01146
Std Dev 0.9618

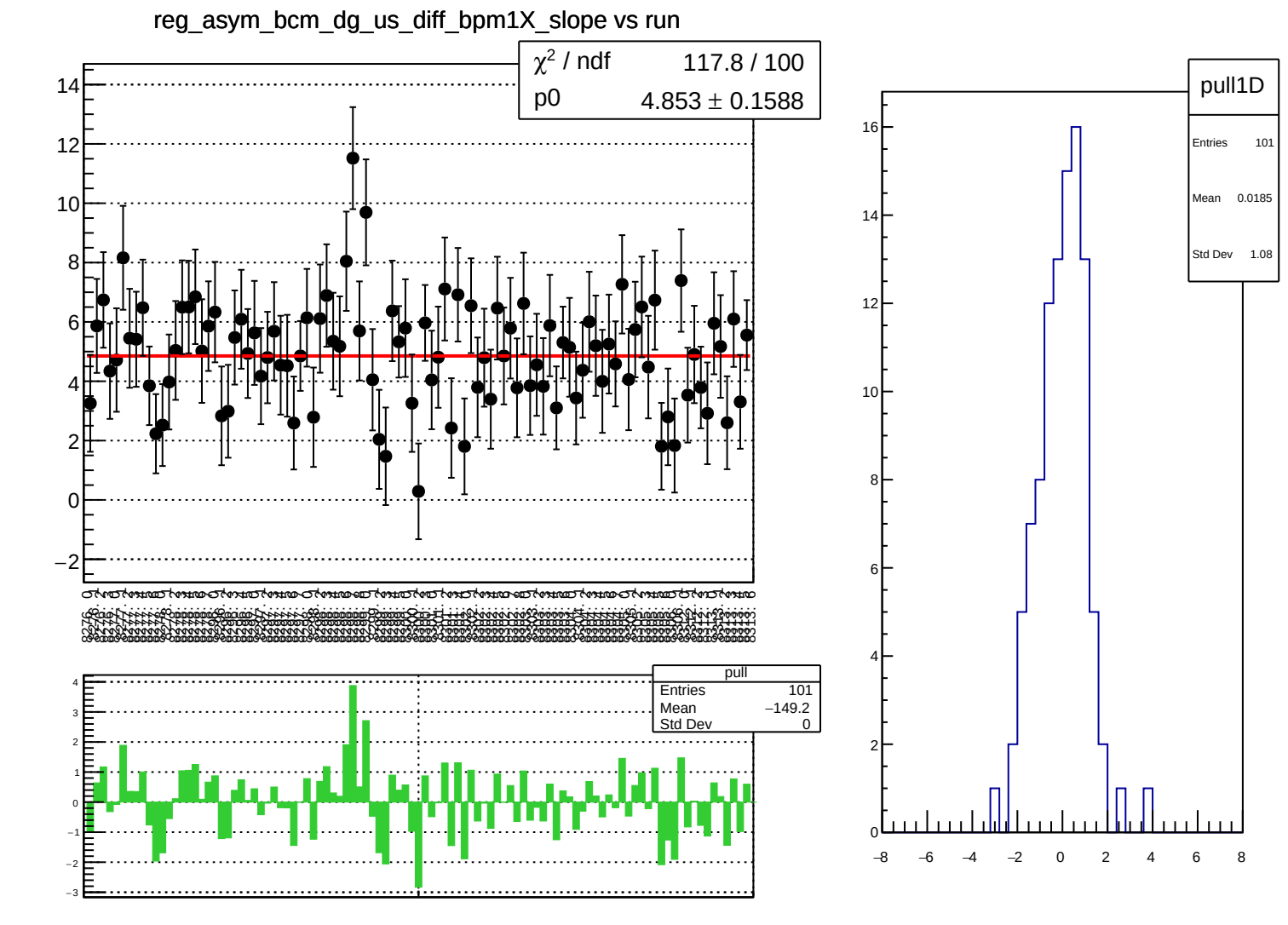

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 119.7 / 100
p0 −4.618 ± 0.1762
pull
Entries 101
Mean −258.1
Std Dev 0
pull1D
Entries 101
Mean −0.01815
Std Dev 1.089

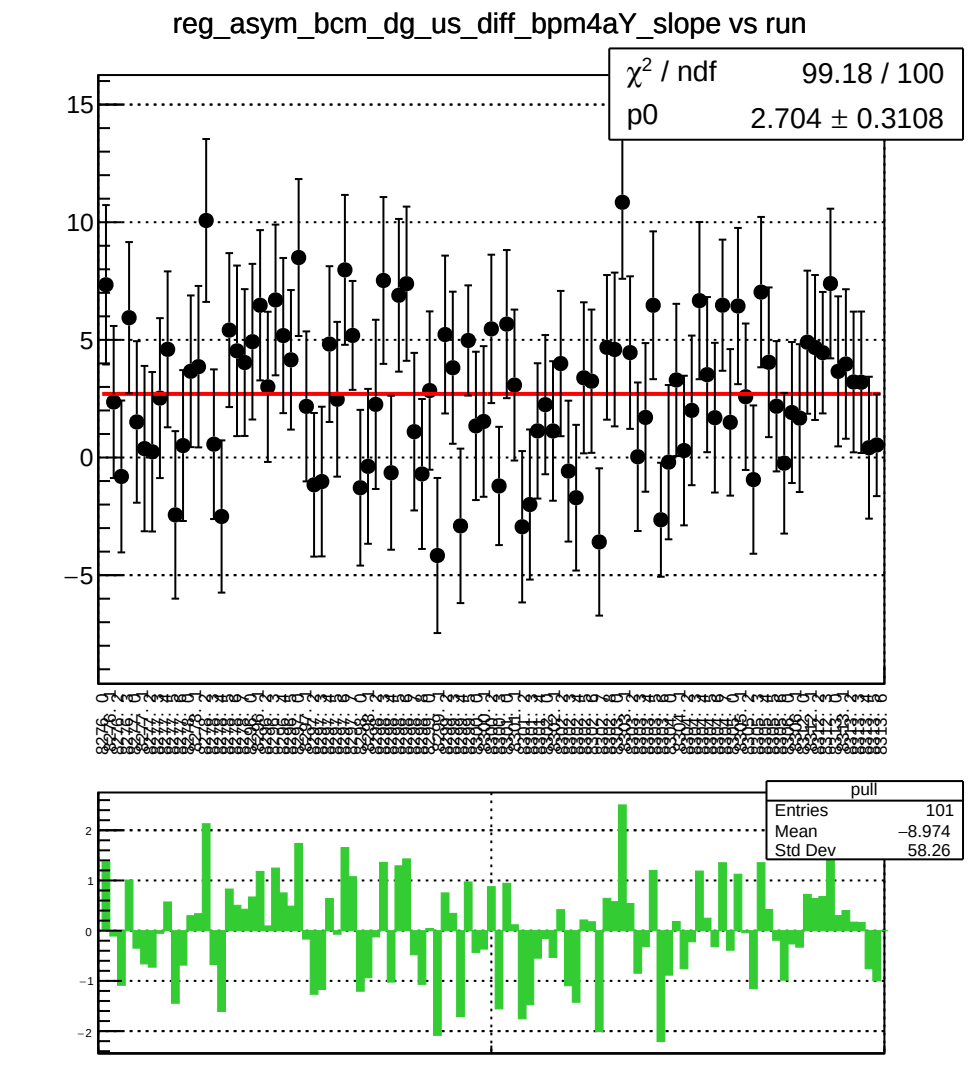

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 94.95 / 100
p0 −3.692 ± 0.3207
pull
Entries 101
Mean 94.72
Std Dev 61.06

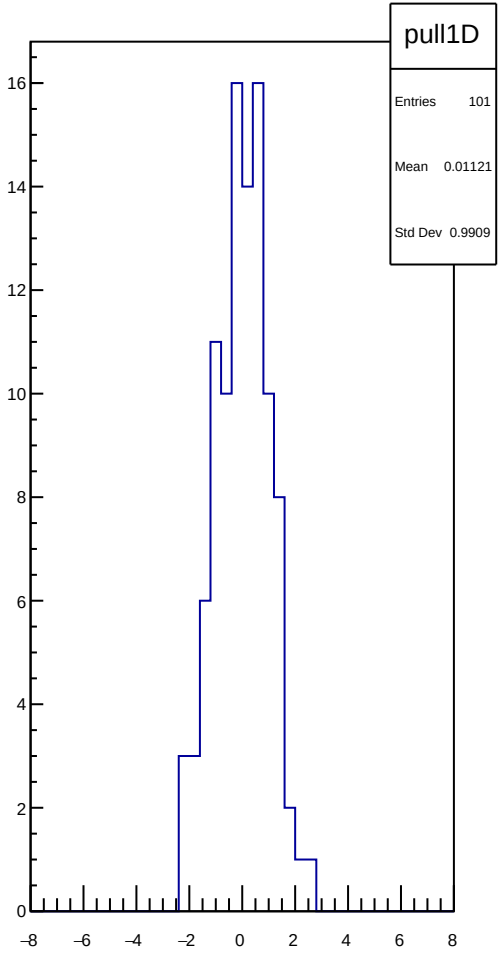

pull1D
Entries 101
Mean −0.01133
Std Dev 0.9695

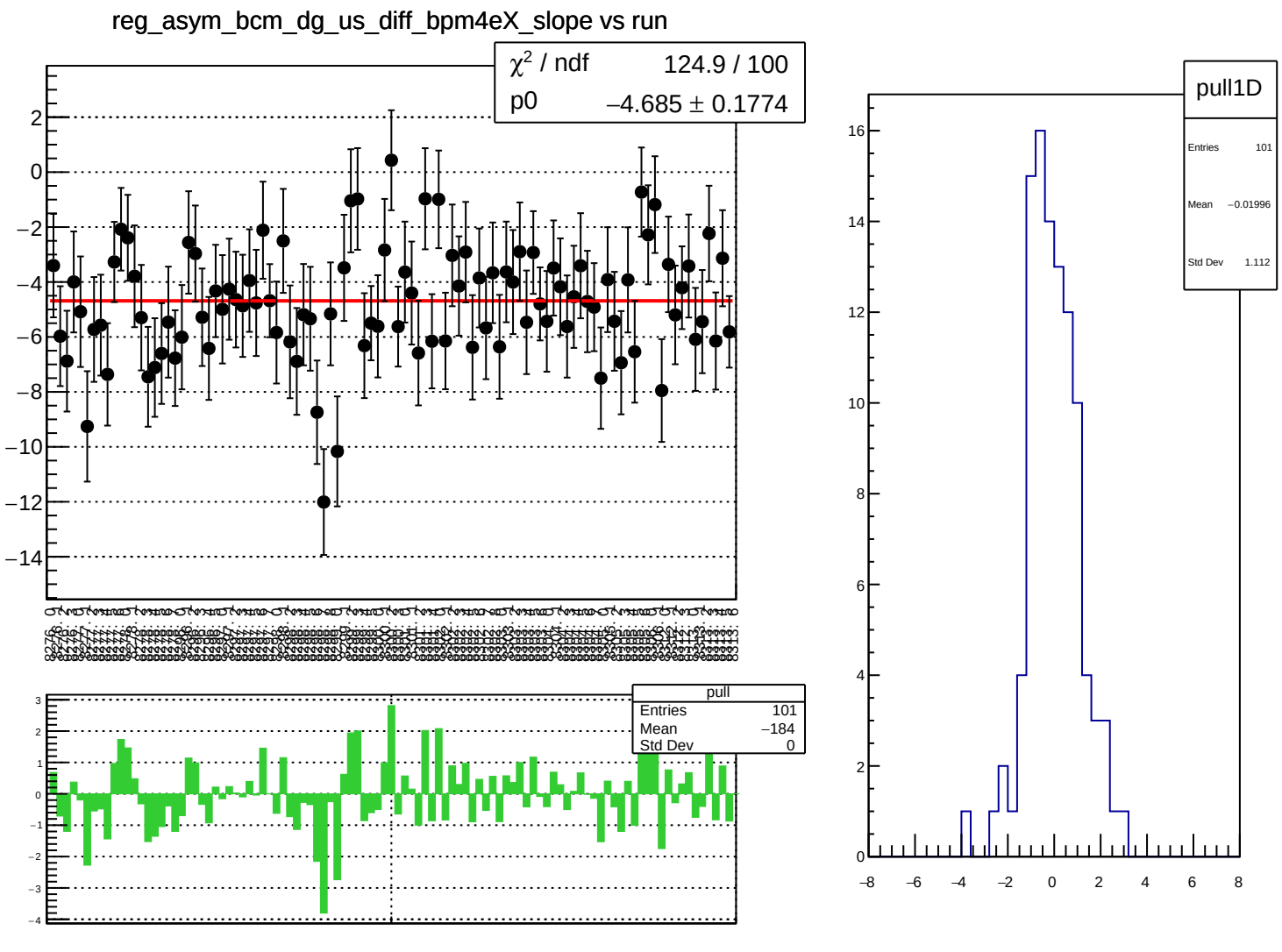

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 173.2 / 100
p0 0.09397 ± 0.01703
pull
Entries 101
Mean −61.04
Std Dev 60.76

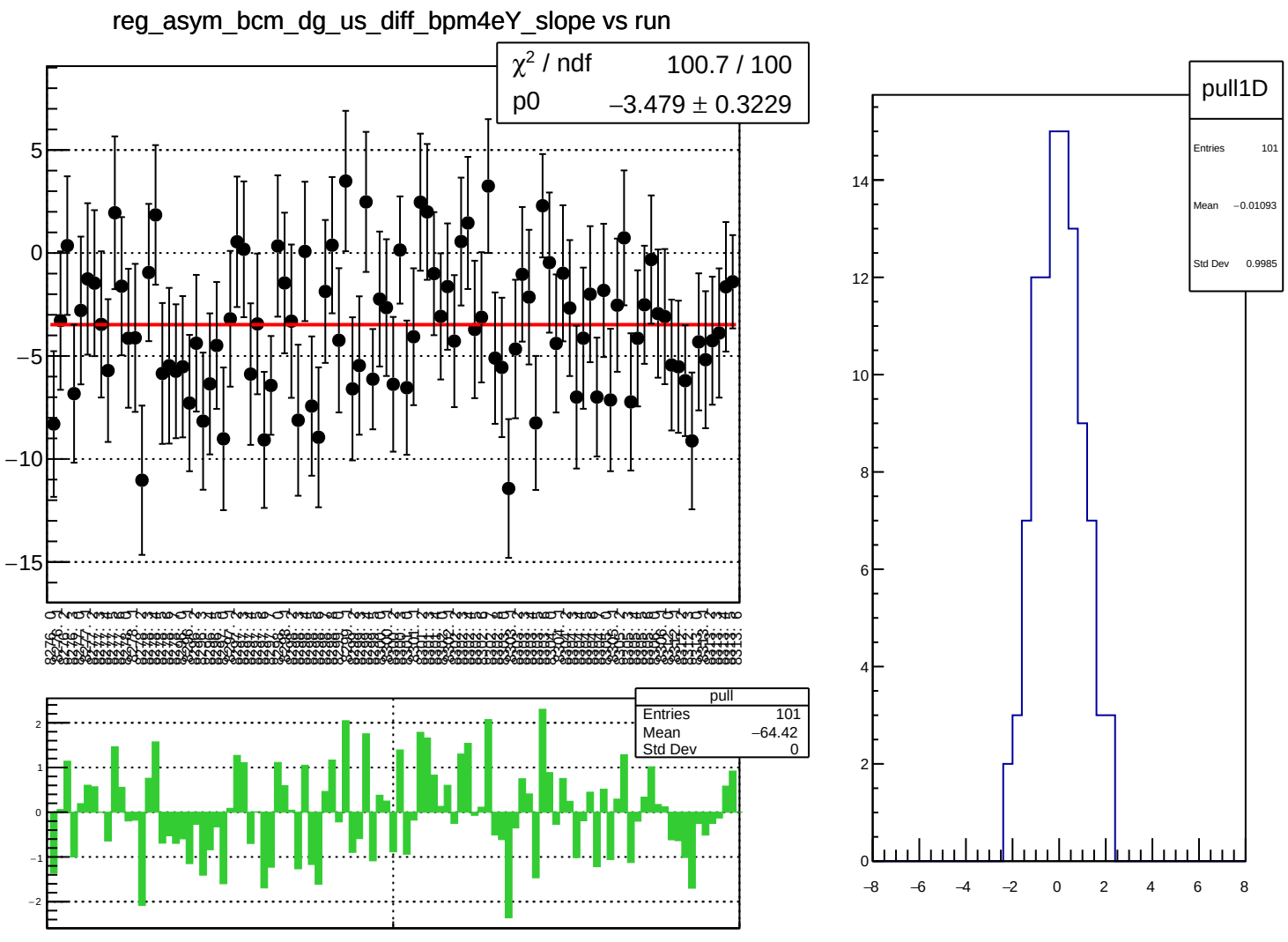

pull1D
Entries 101
Mean −0.02423
Std Dev 1.309

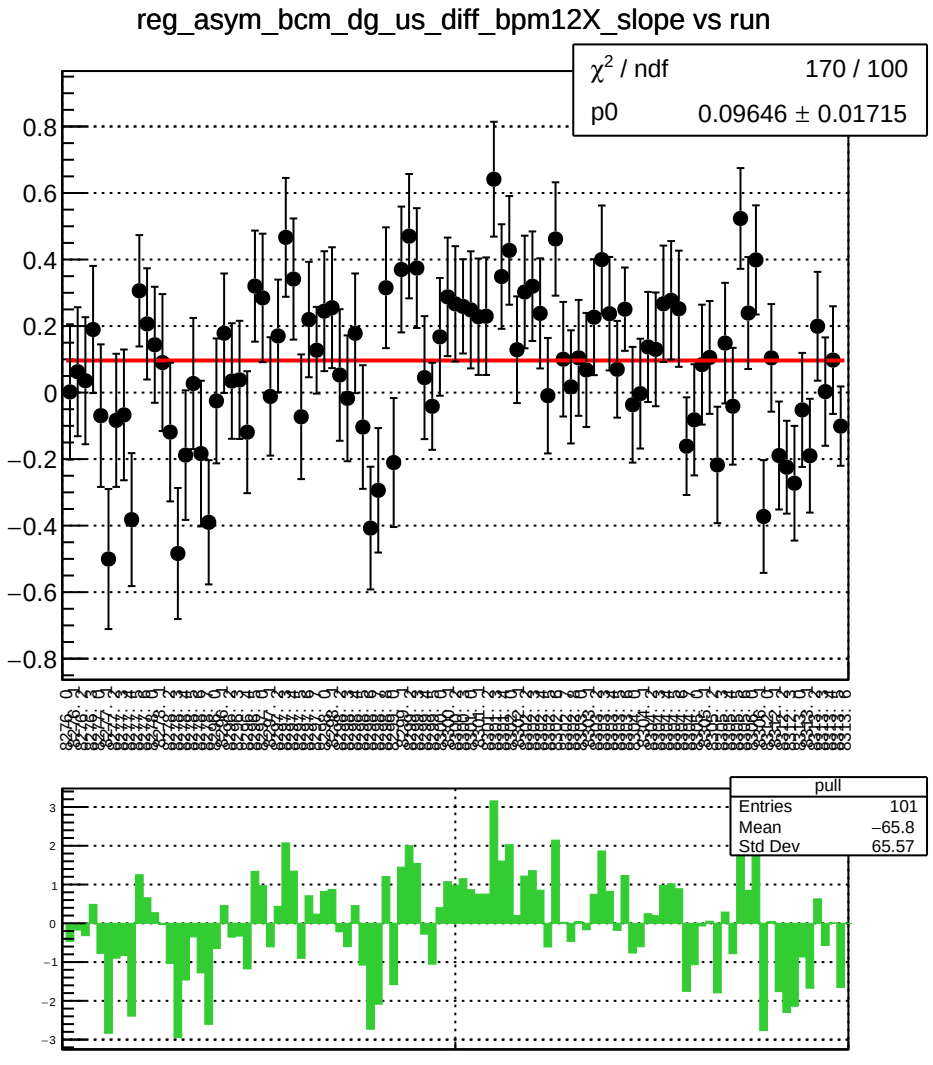

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 117.8 / 100
p0 4.853 ± 0.1588
pull
Entries 101
Mean −149.2
Std Dev 0
pull1D
Entries 101
Mean 0.0185
Std Dev 1.08

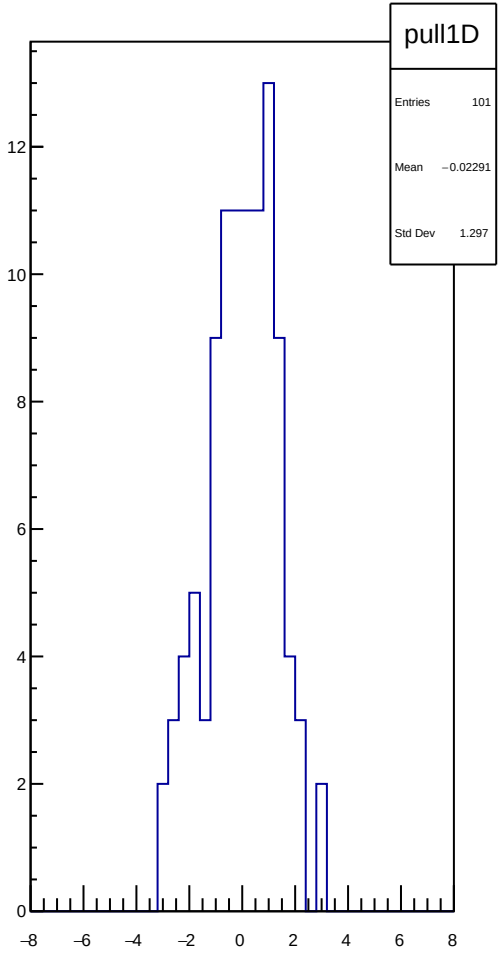

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 99.18 / 100
p0 2.704 ± 0.3108
15
10
5
0
−5
pull
Entries 101
Mean −8.974
Std Dev 58.26
2
1
0
−1
−2

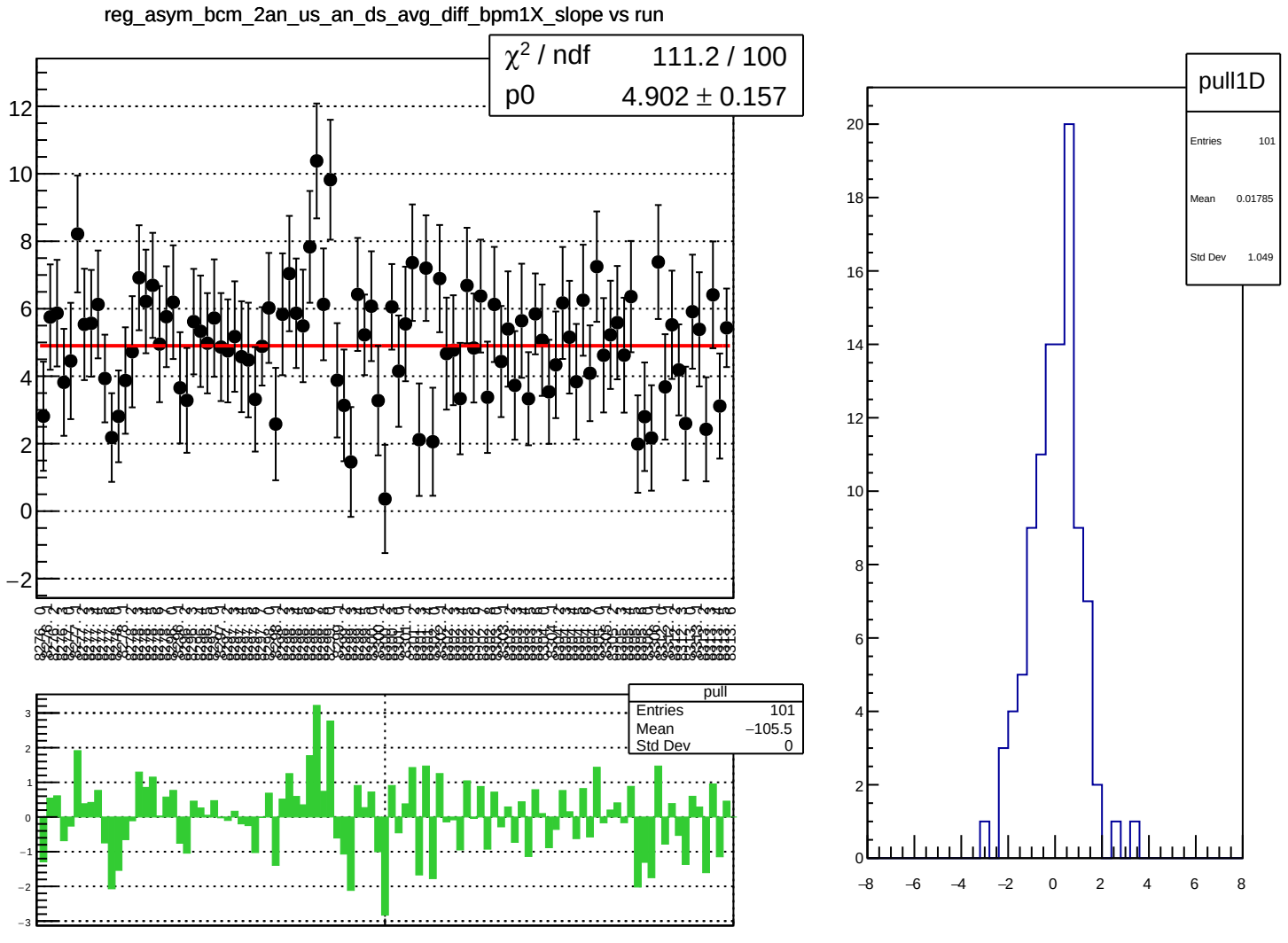

pull1D
Entries 101
Mean 0.01121
Std Dev 0.9909
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

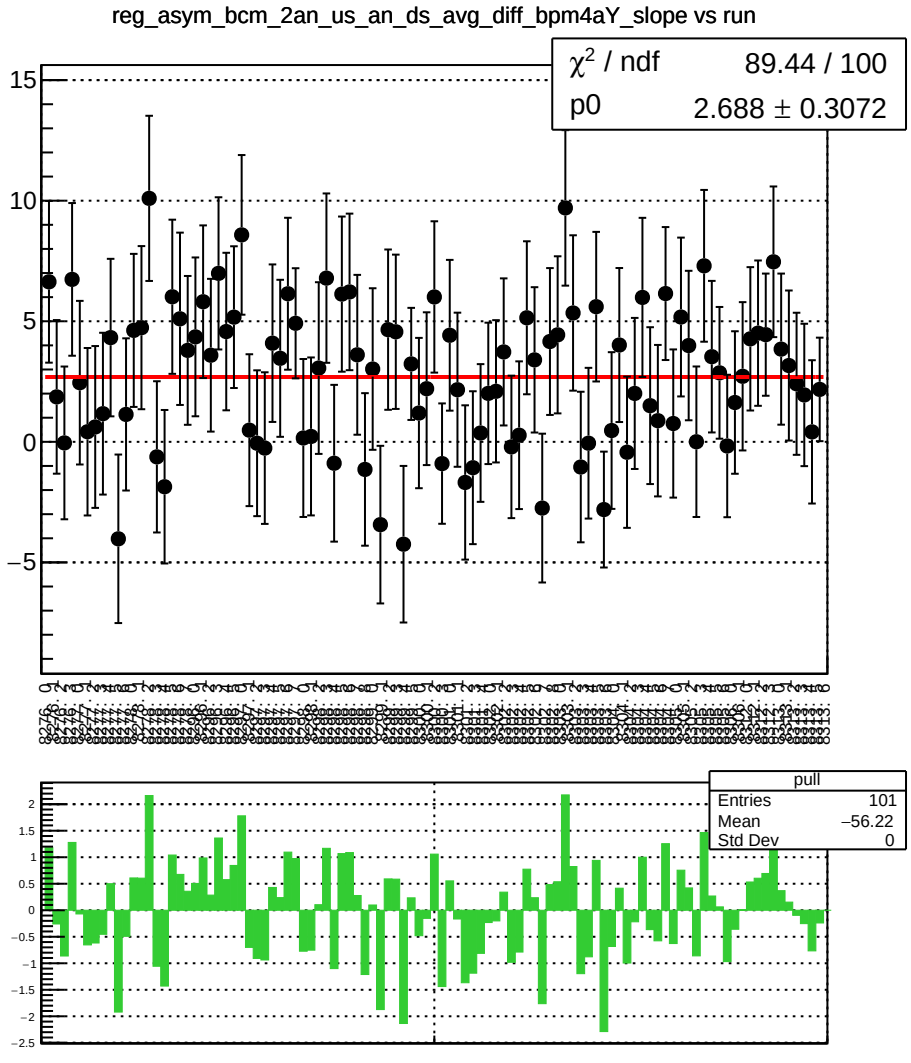

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 124.9 / 100
p0 −4.685 ± 0.1774
pull
Entries 101
Mean −184
Std Dev 0
pull1D
Entries 101
Mean −0.01996
Std Dev 1.112

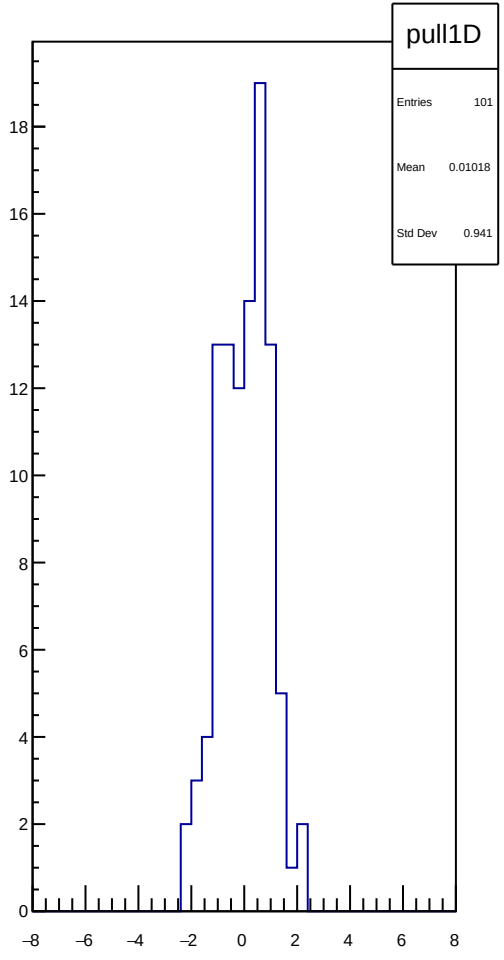

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 100.7 / 100
p0 −3.479 ± 0.3229
pull
Entries 101
Mean −64.42
Std Dev 0
pull1D
Entries 101
Mean −0.01093
Std Dev 0.9985

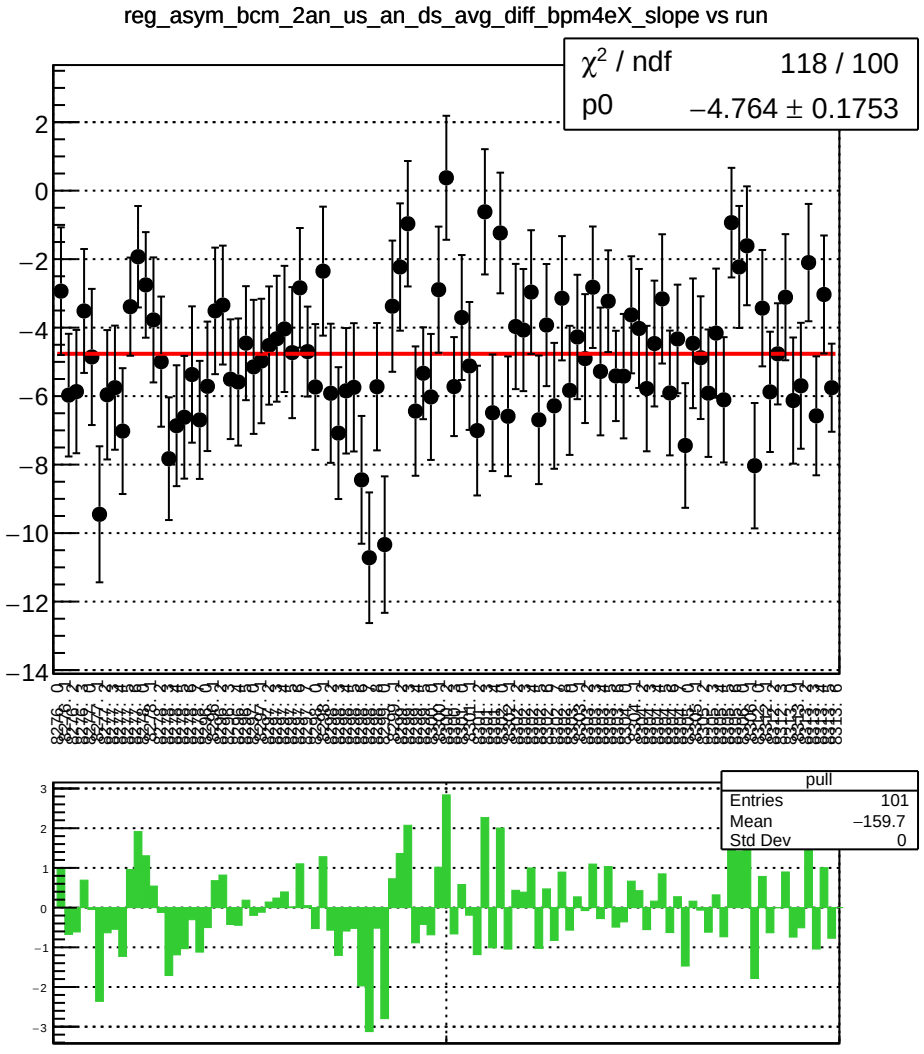

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 170 / 100
p0 0.09646 ± 0.01715
pull
Entries 101
Mean −65.8
Std Dev 65.57

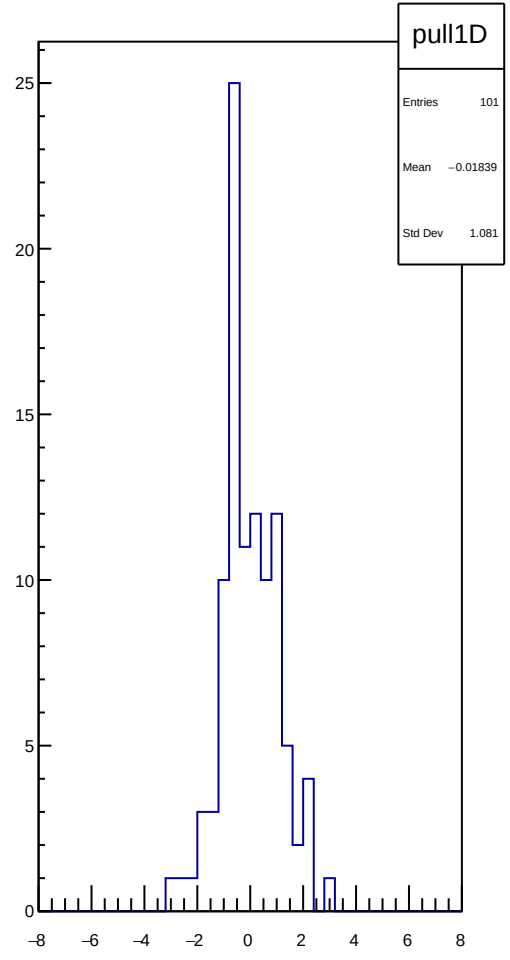

pull1D
Entries 101
Mean −0.02291
Std Dev 1.297

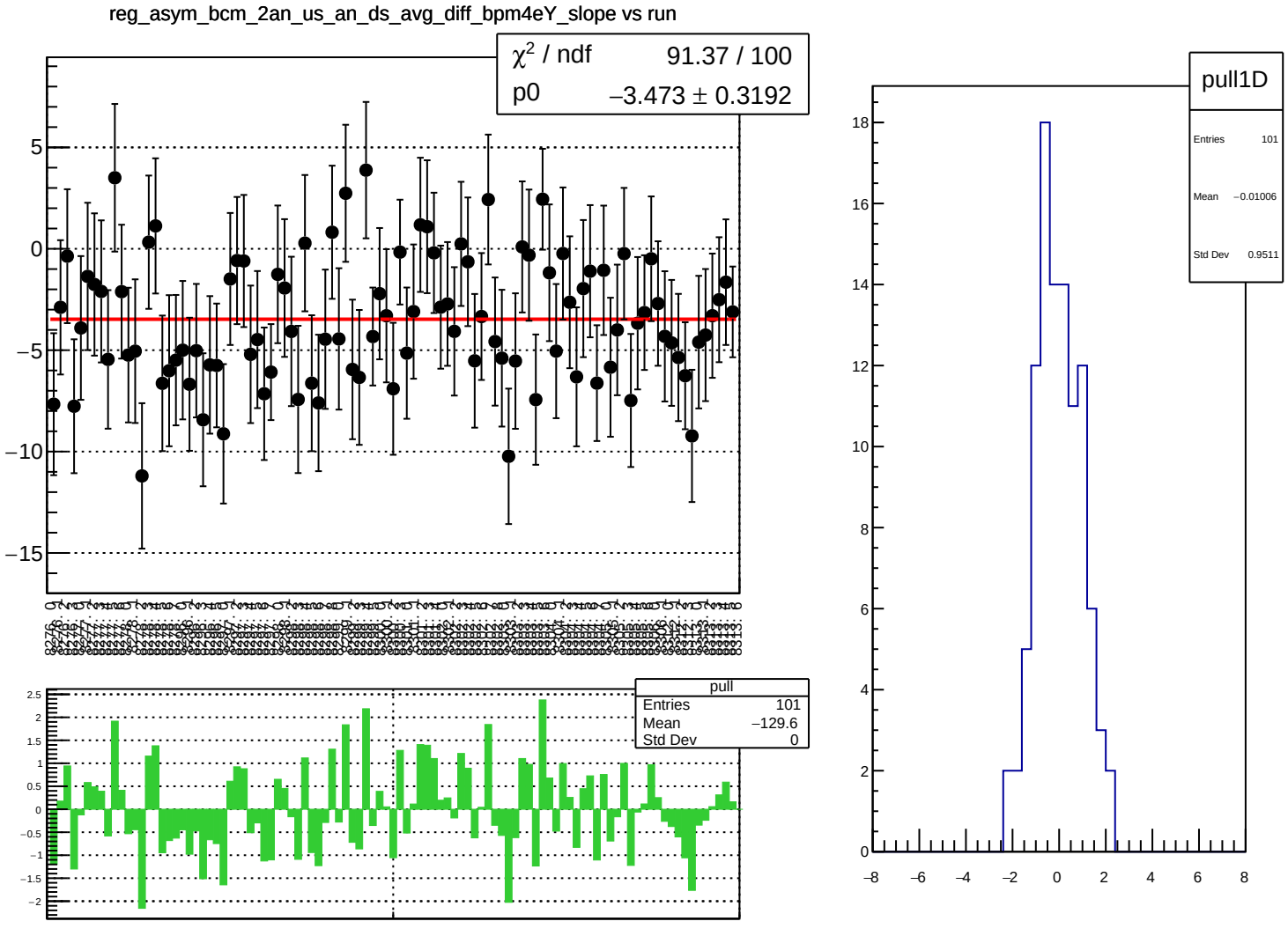

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 111.2 / 100
p0 4.902 ± 0.157
pull
Entries 101
Mean −105.5
Std Dev 0
pull1D
Entries 101
Mean 0.01785
Std Dev 1.049

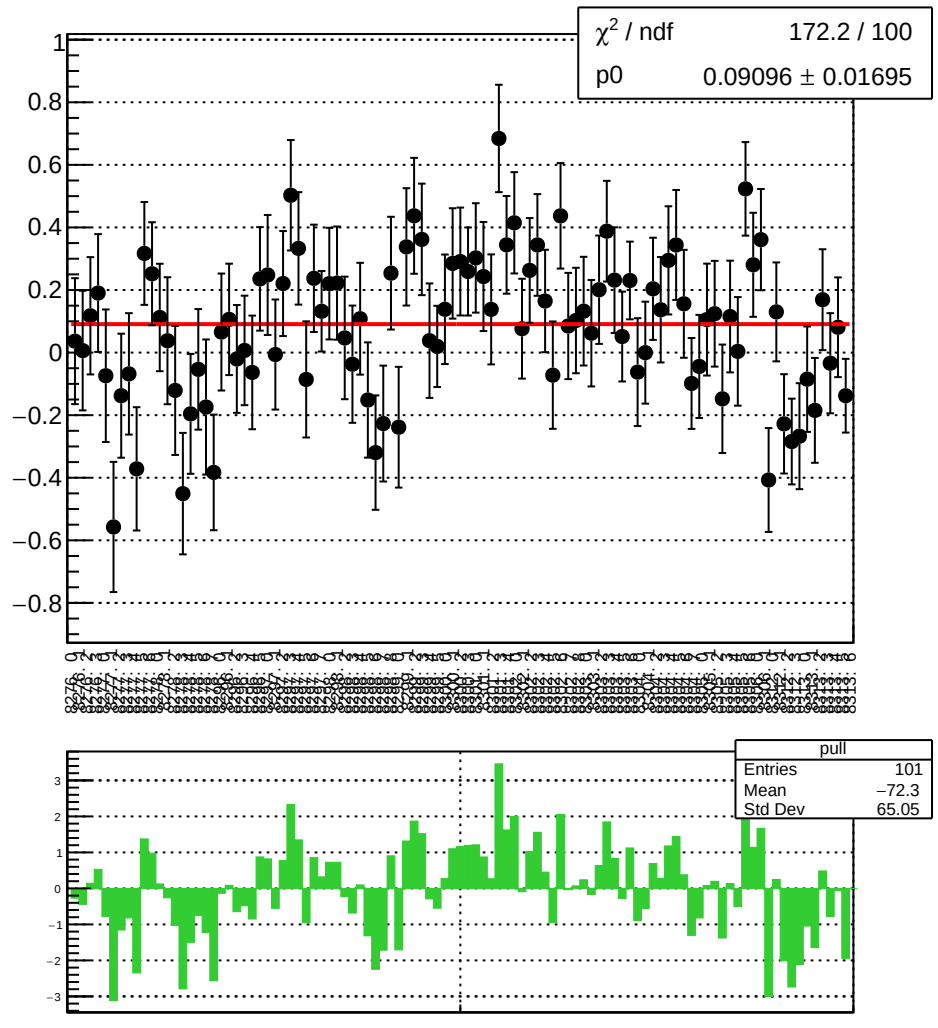

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 89.44 / 100
p0 2.688 ± 0.3072
pull
Entries 101
Mean −56.22
Std Dev 0

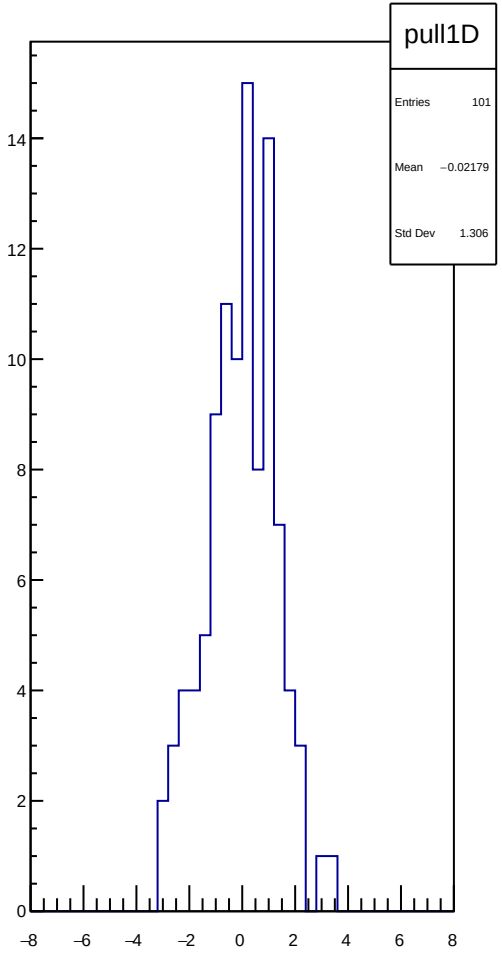

pull1D
Entries 101
Mean 0.01018
Std Dev 0.941

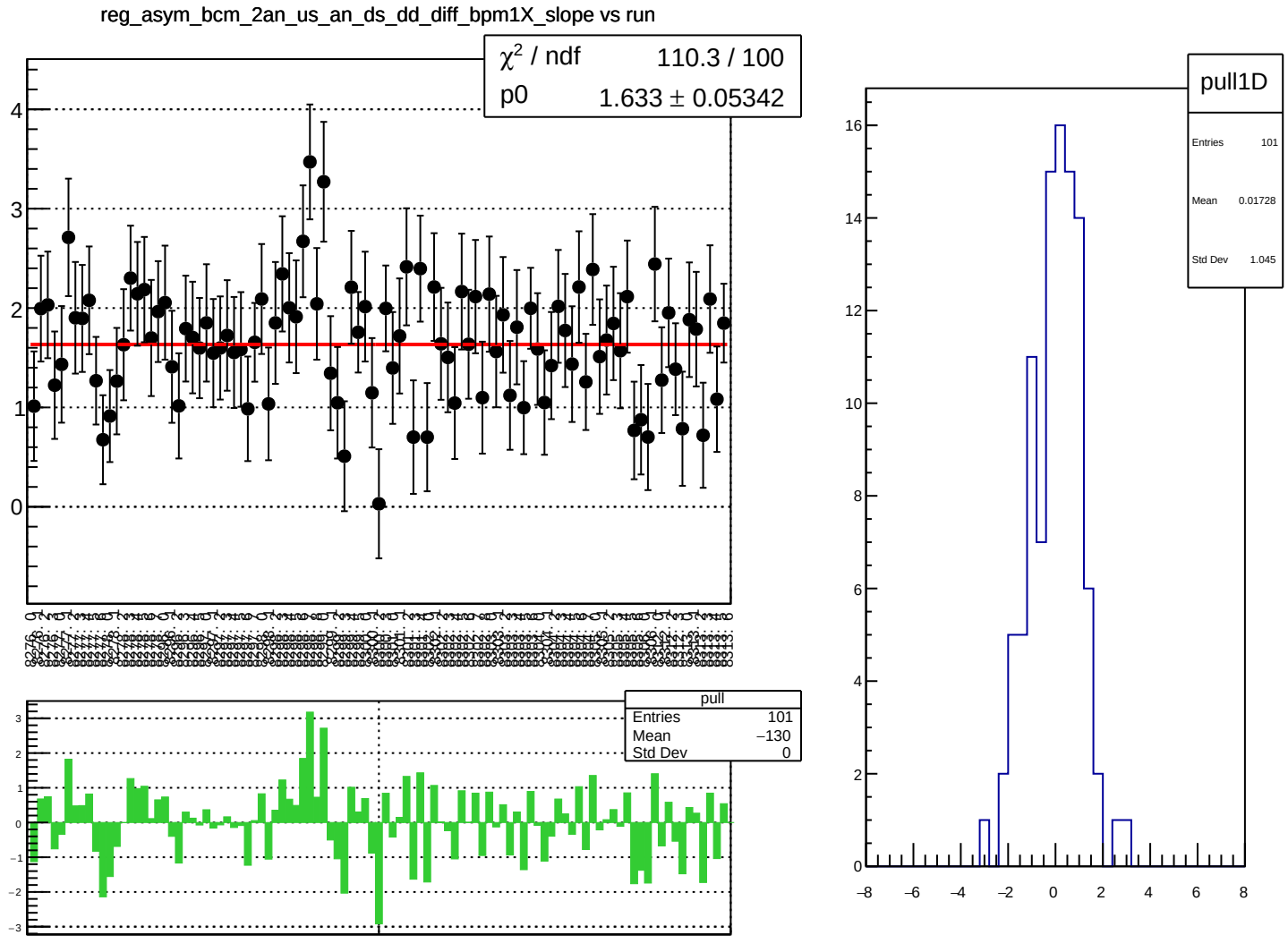

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 118 / 100
p0 −4.764 ± 0.1753
pull
Entries 101
Mean −159.7
Std Dev 0

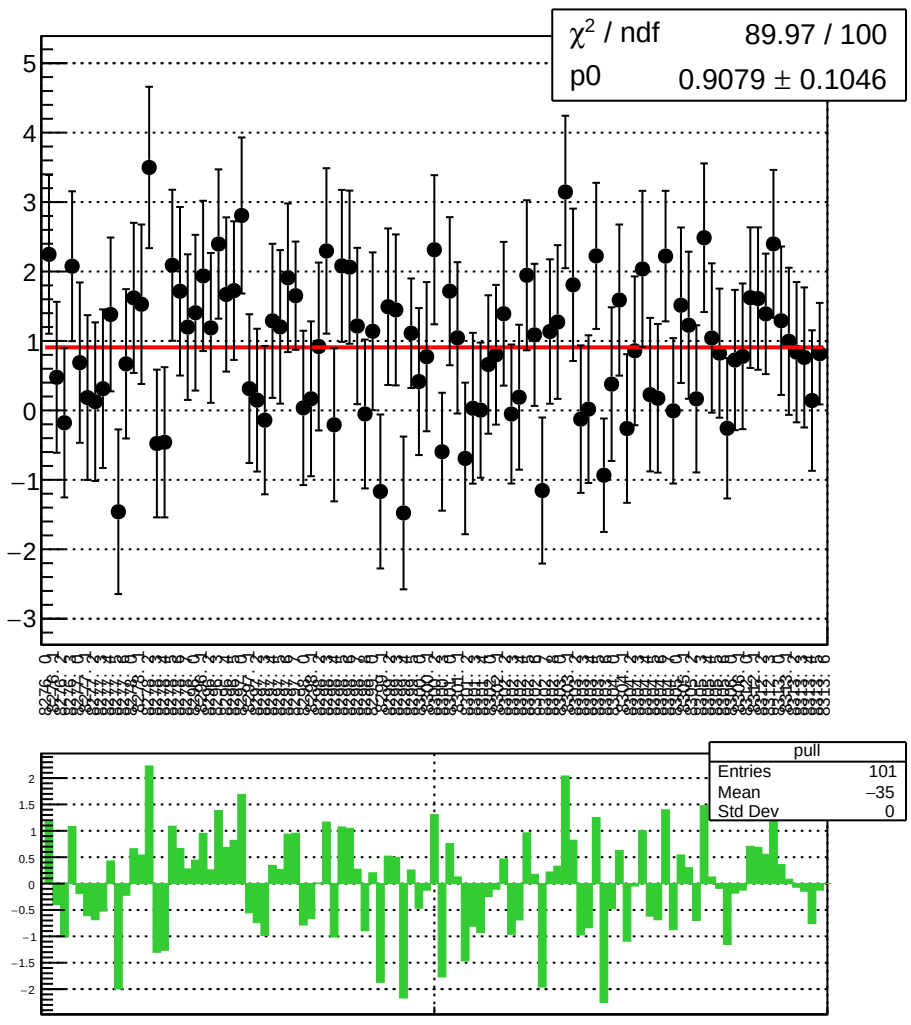

pull1D
Entries 101
Mean −0.01839
Std Dev 1.081

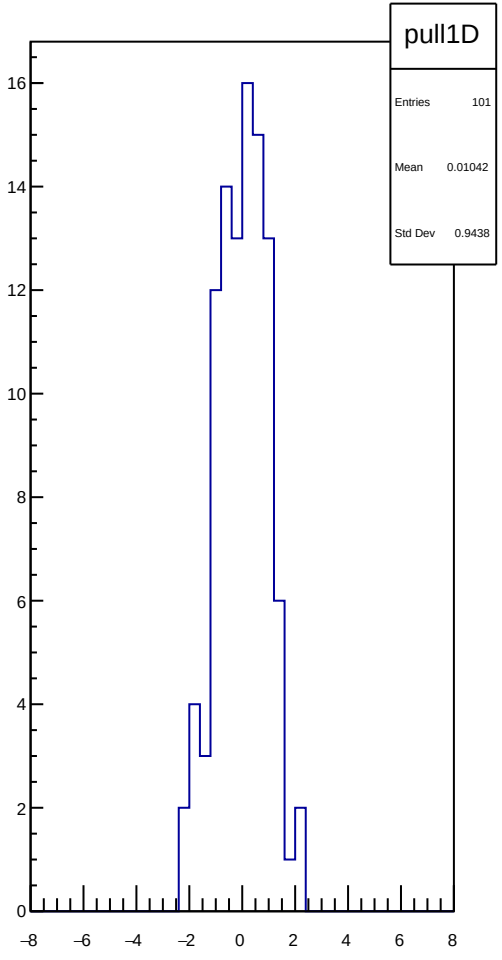

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 91.37 / 100
p0 −3.473 ± 0.3192
pull
Entries 101
Mean −129.6
Std Dev 0
pull1D
Entries 101
Mean −0.01006
Std Dev 0.9511

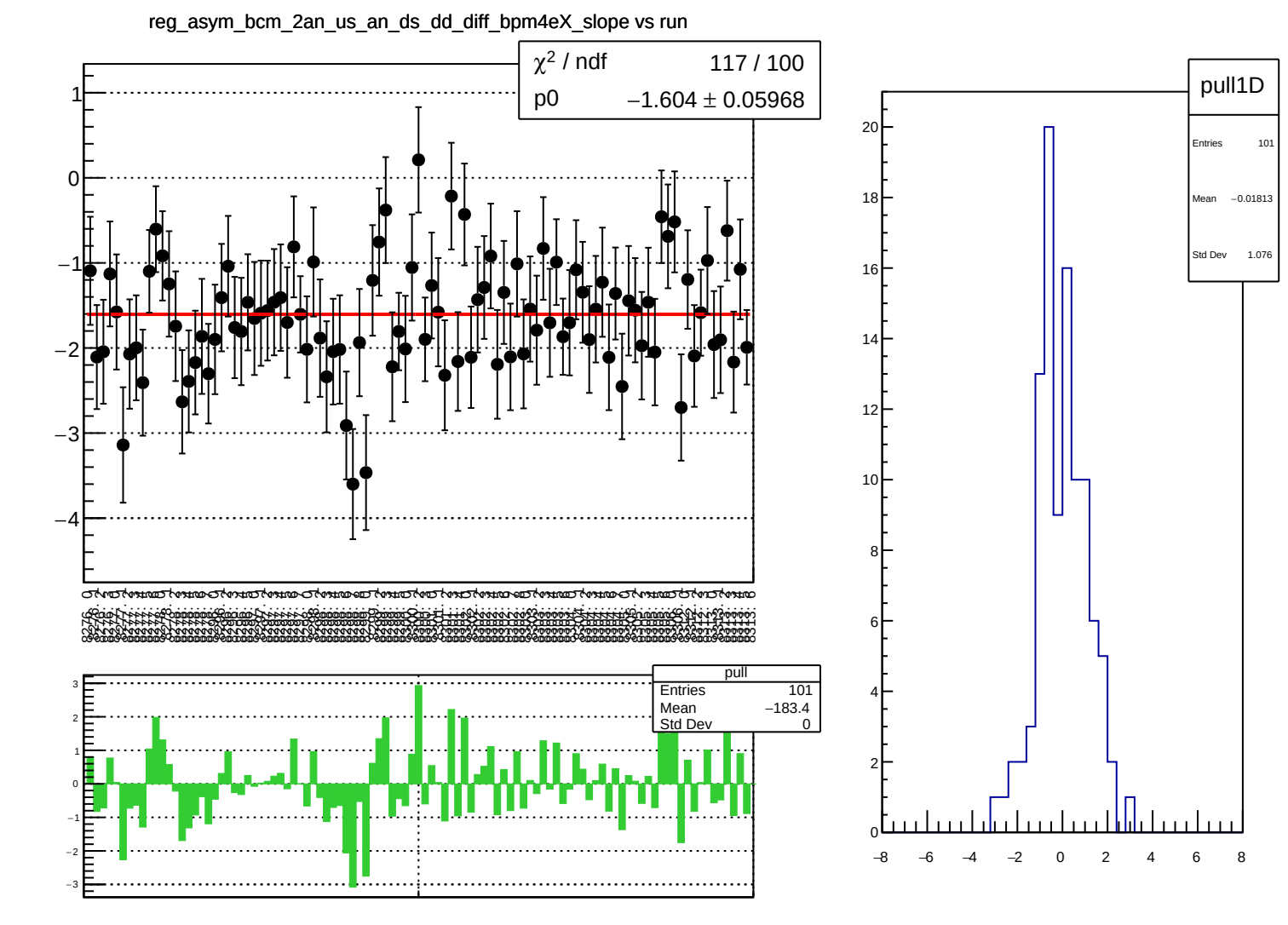

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 172.2 / 100
p0 0.09096 ± 0.01695
pull
Entries 101
Mean −72.3
Std Dev 65.05

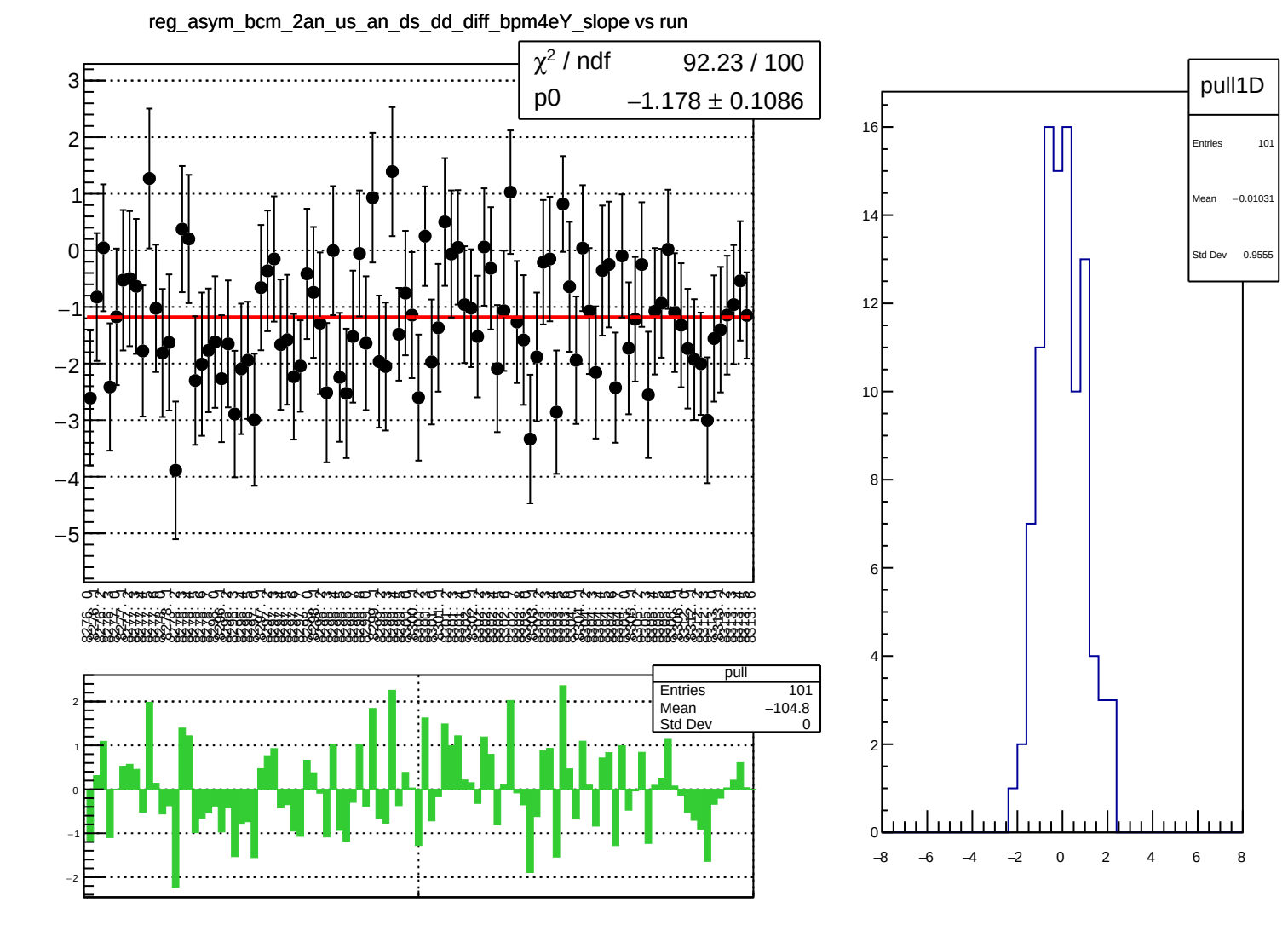

pull1D
Entries 101
Mean −0.02179
Std Dev 1.306

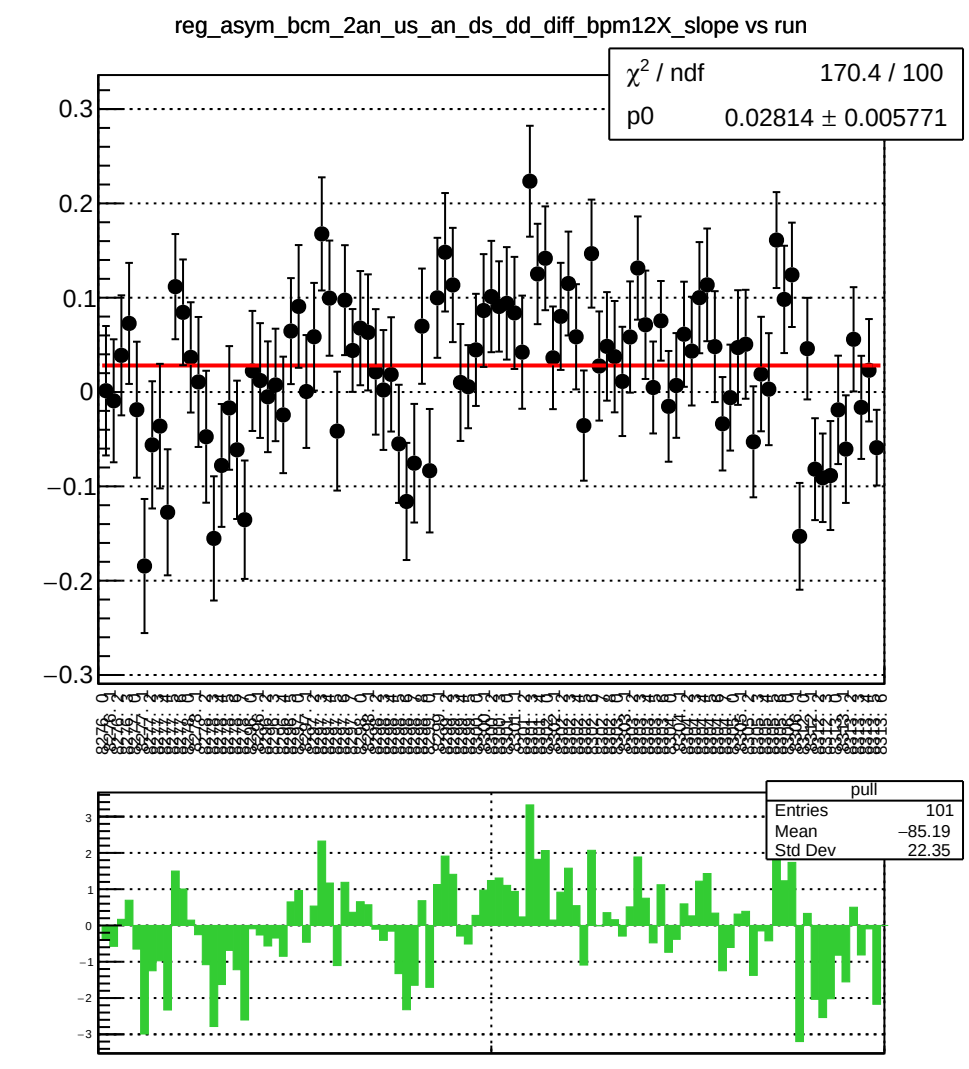

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 110.3 / 100
p0 1.633 ± 0.05342
pull
Entries 101
Mean −130
Std Dev 0
pull1D
Entries 101
Mean 0.01728
Std Dev 1.045

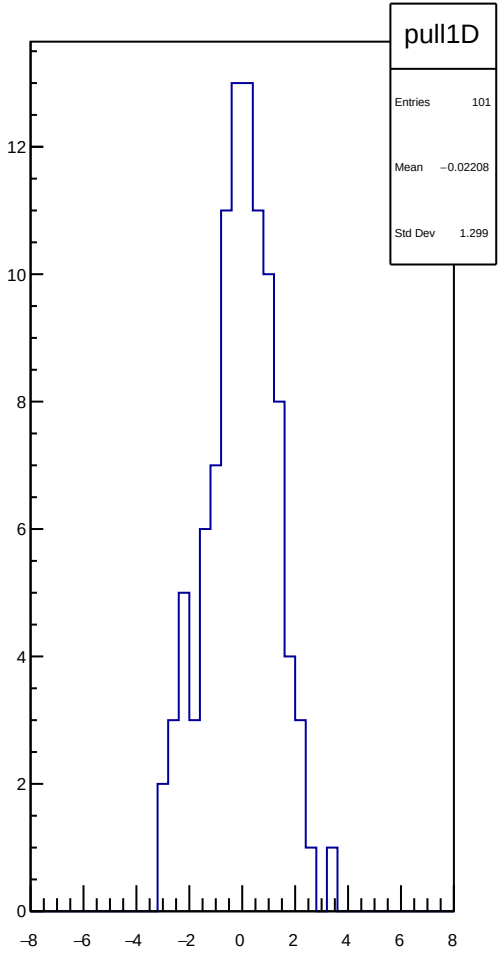

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 89.97 / 100
p0 0.9079 ± 0.1046
pull
Entries 101
Mean −35
Std Dev 0

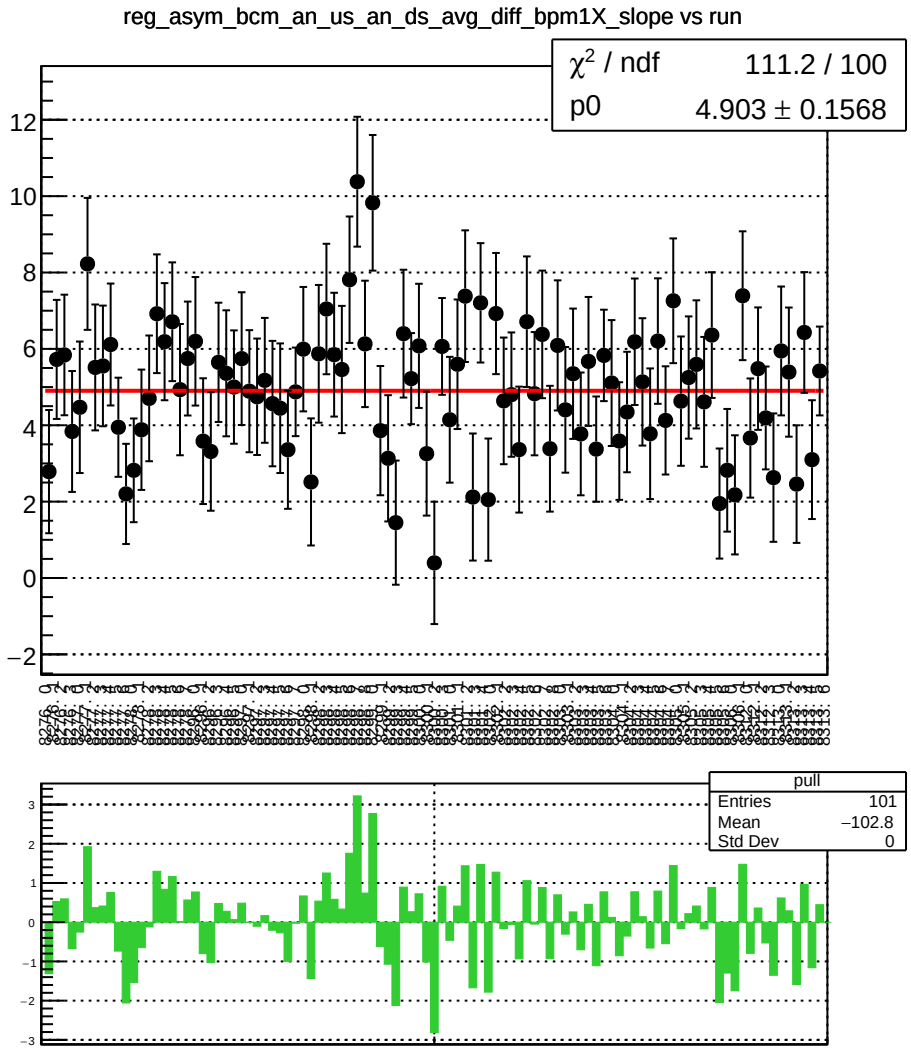

pull1D
Entries 101
Mean 0.01042
Std Dev 0.9438

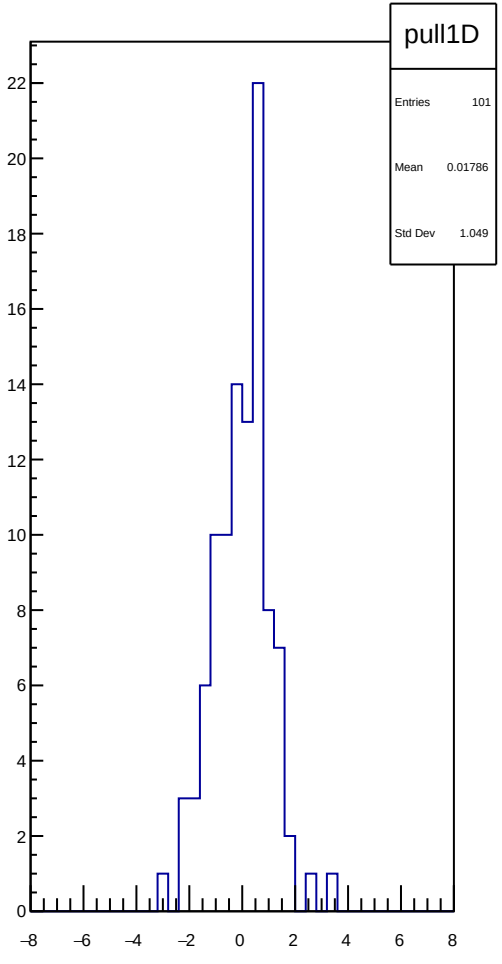

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 117 / 100
p0 −1.604 ± 0.05968
pull
Entries 101
Mean −183.4
Std Dev 0
pull1D
Entries 101
Mean −0.01813
Std Dev 1.076

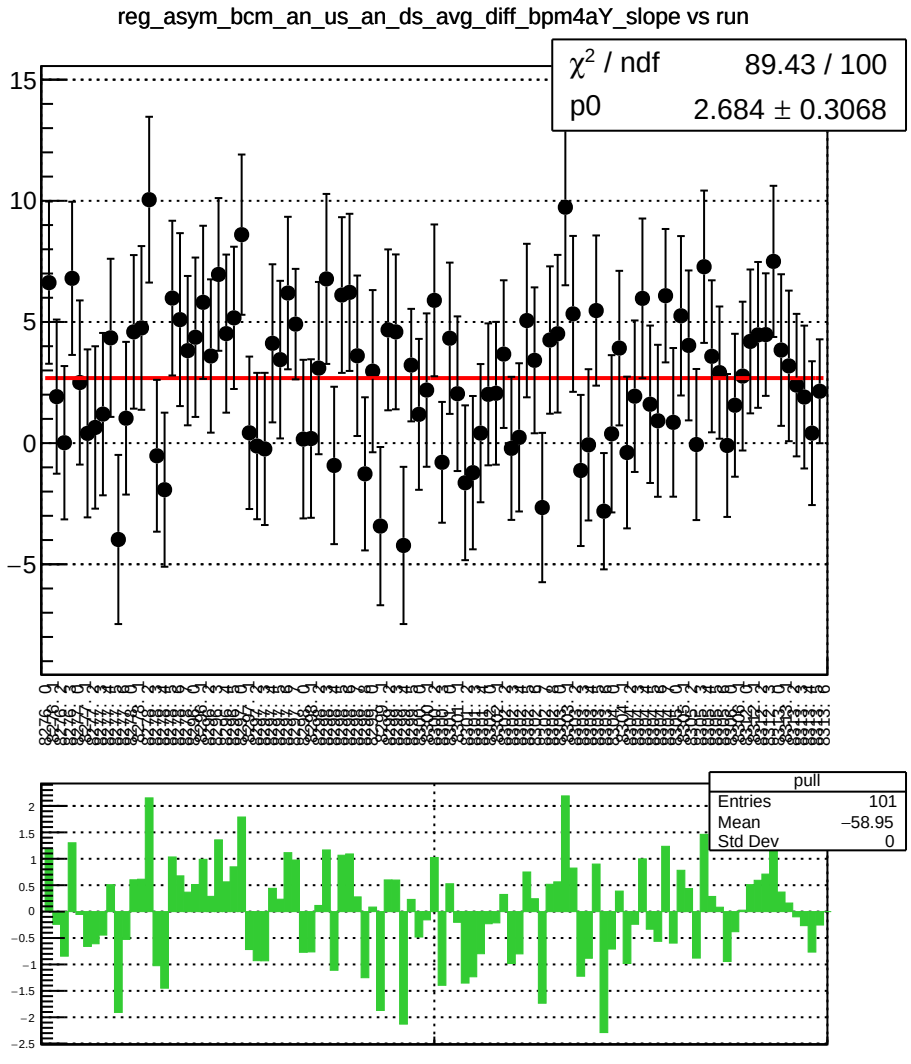

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 92.23 / 100
p0 −1.178 ± 0.1086
pull
Entries 101
Mean −104.8
Std Dev 0
pull1D
Entries 101
Mean −0.01031
Std Dev 0.9555

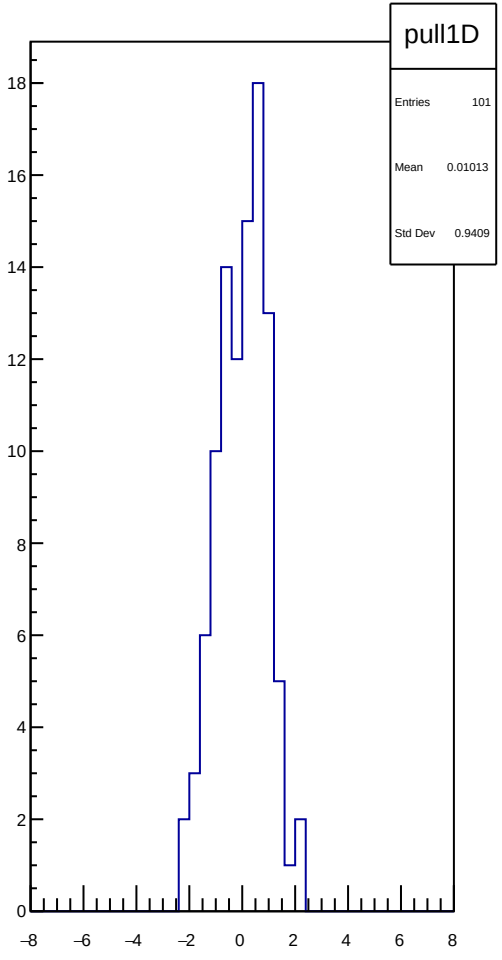

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 170.4 / 100
p0 0.02814 ± 0.005771
pull
Entries 101
Mean −85.19
Std Dev 22.35

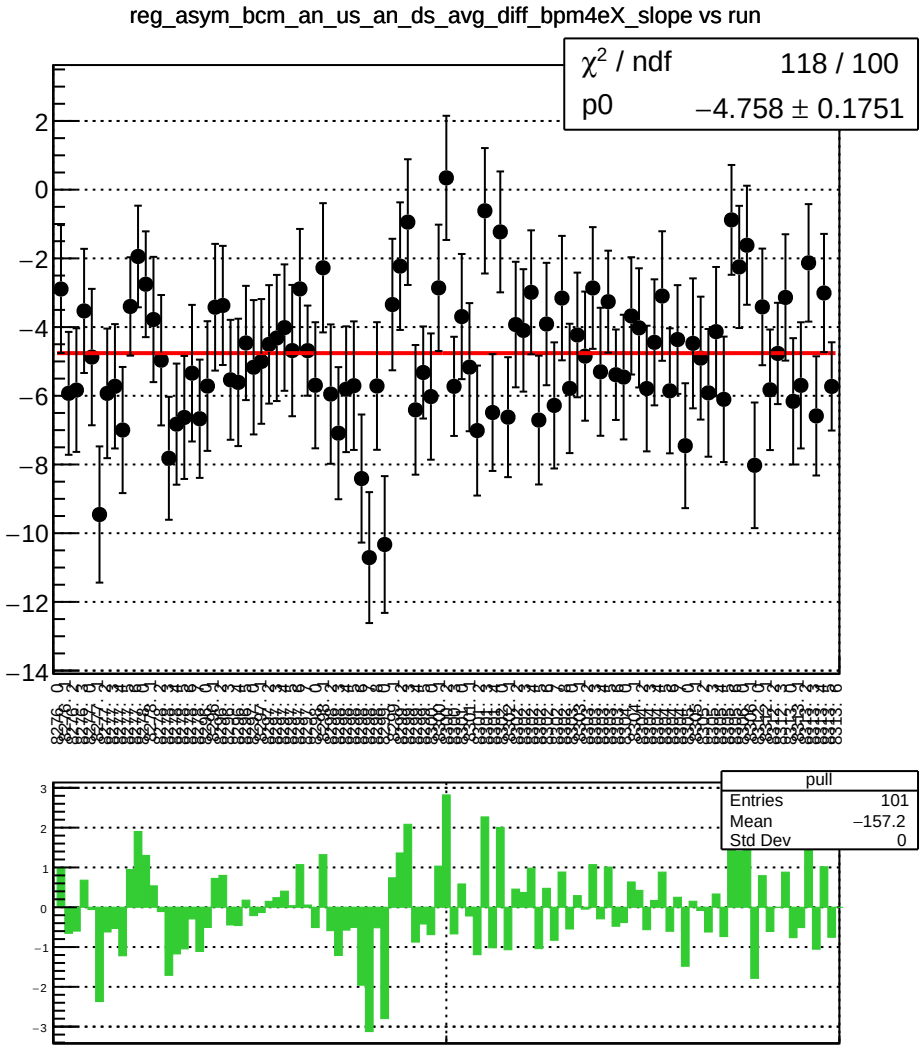

pull1D
Entries 101
Mean −0.02208
Std Dev 1.299

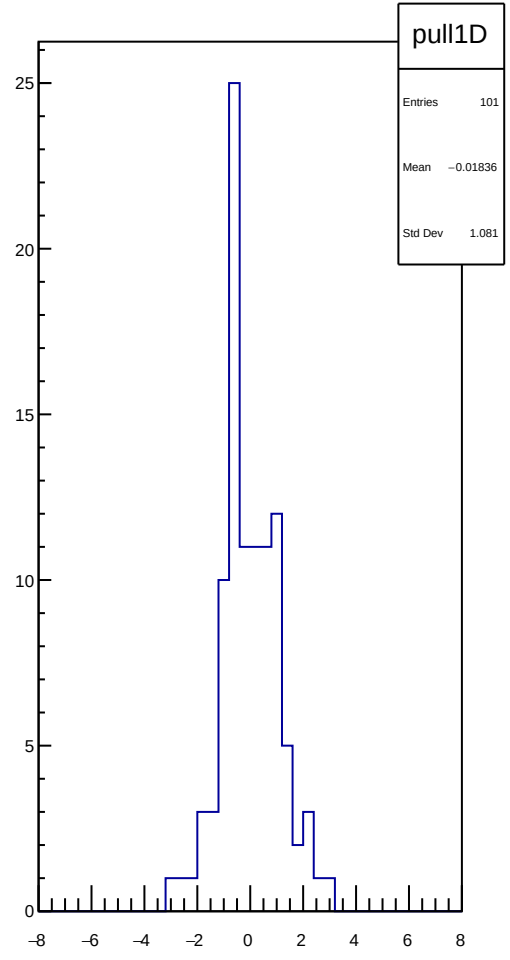

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 111.2 / 100
p0 4.903 ± 0.1568
pull
Entries 101
Mean −102.8
Std Dev 0

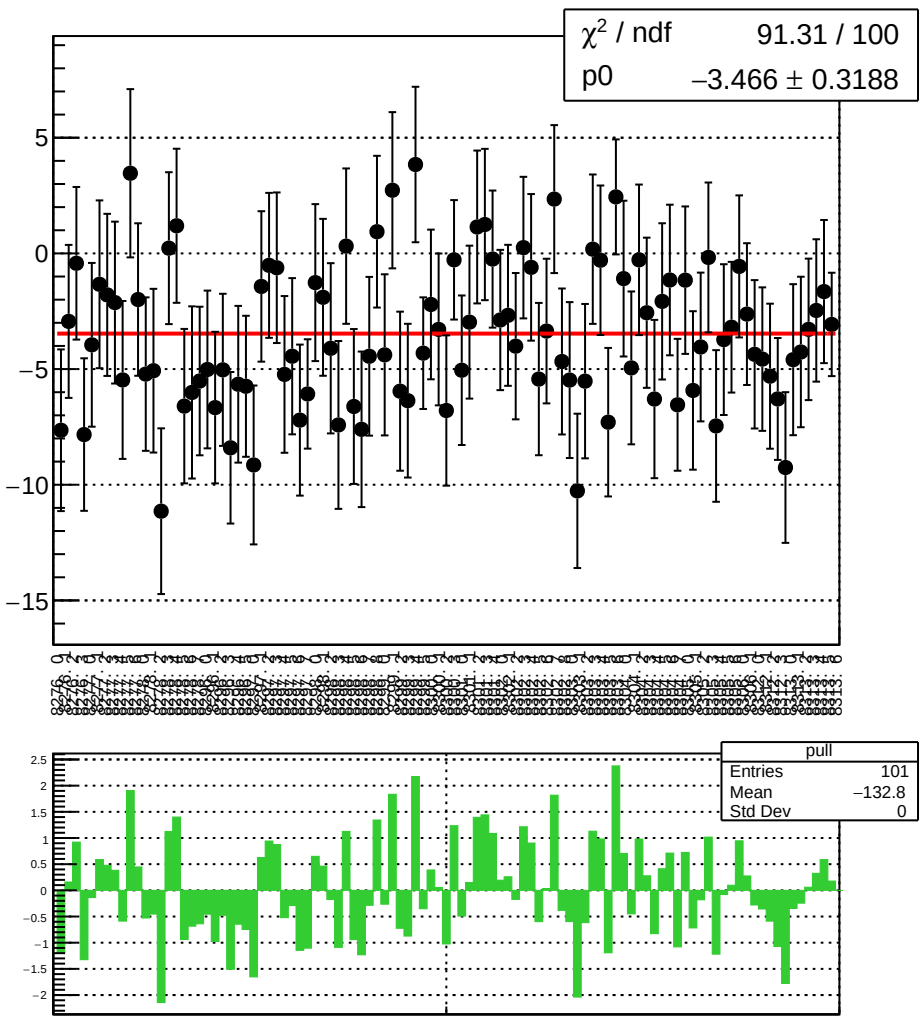

pull1D
Entries 101
Mean 0.01786
Std Dev 1.049

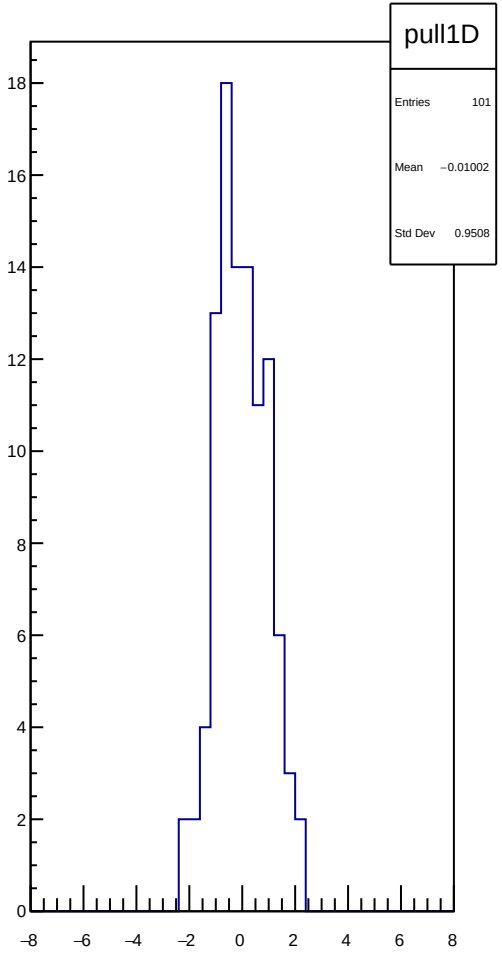

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 89.43 / 100
p0 2.684 ± 0.3068
pull
Entries 101
Mean −58.95
Std Dev 0

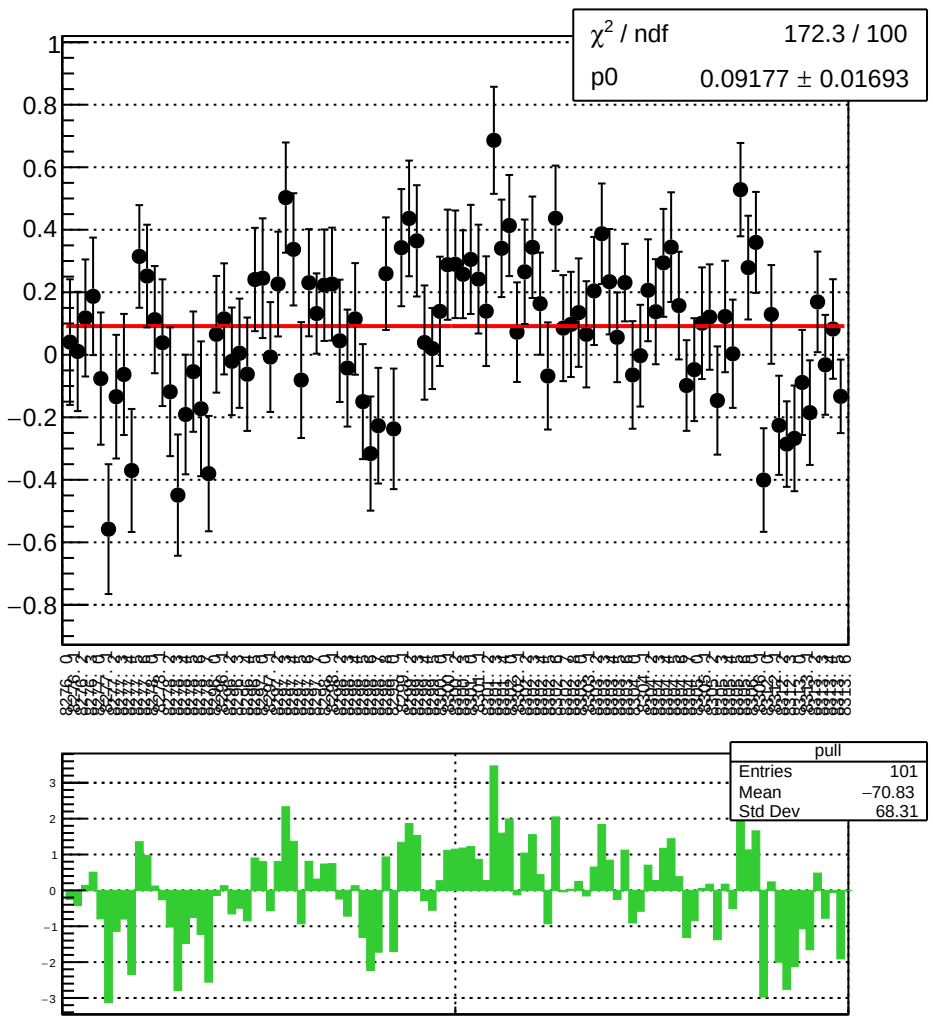

pull1D
Entries 101
Mean 0.01013
Std Dev 0.9409

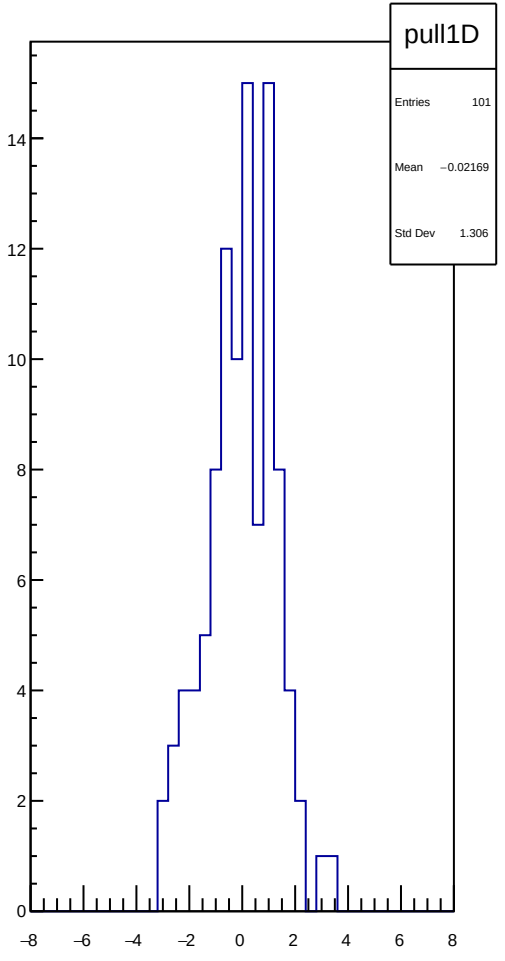

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 118 / 100
p0 −4.758 ± 0.1751
pull
Entries 101
Mean −157.2
Std Dev 0

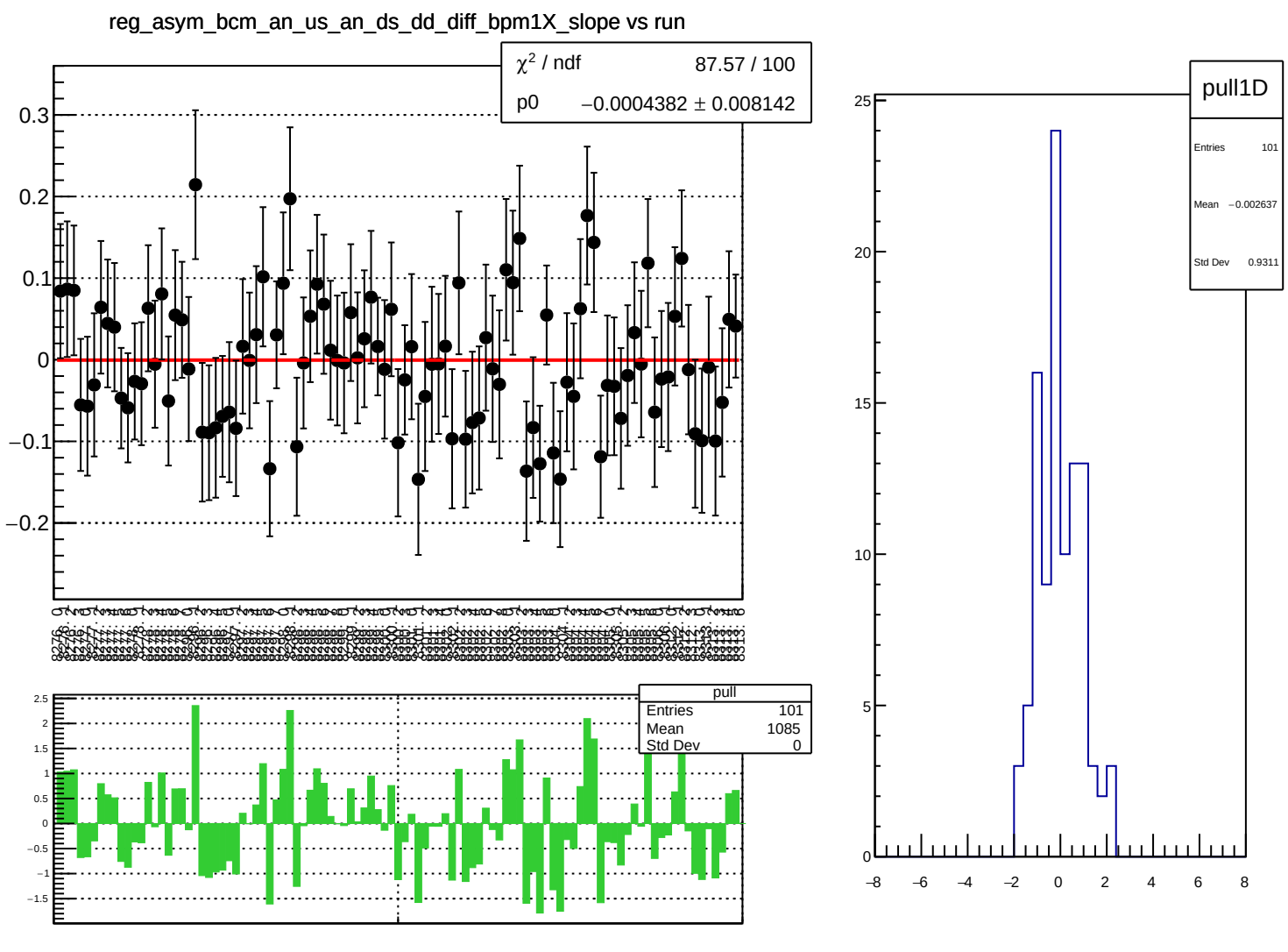

pull1D
Entries 101
Mean −0.01836
Std Dev 1.081

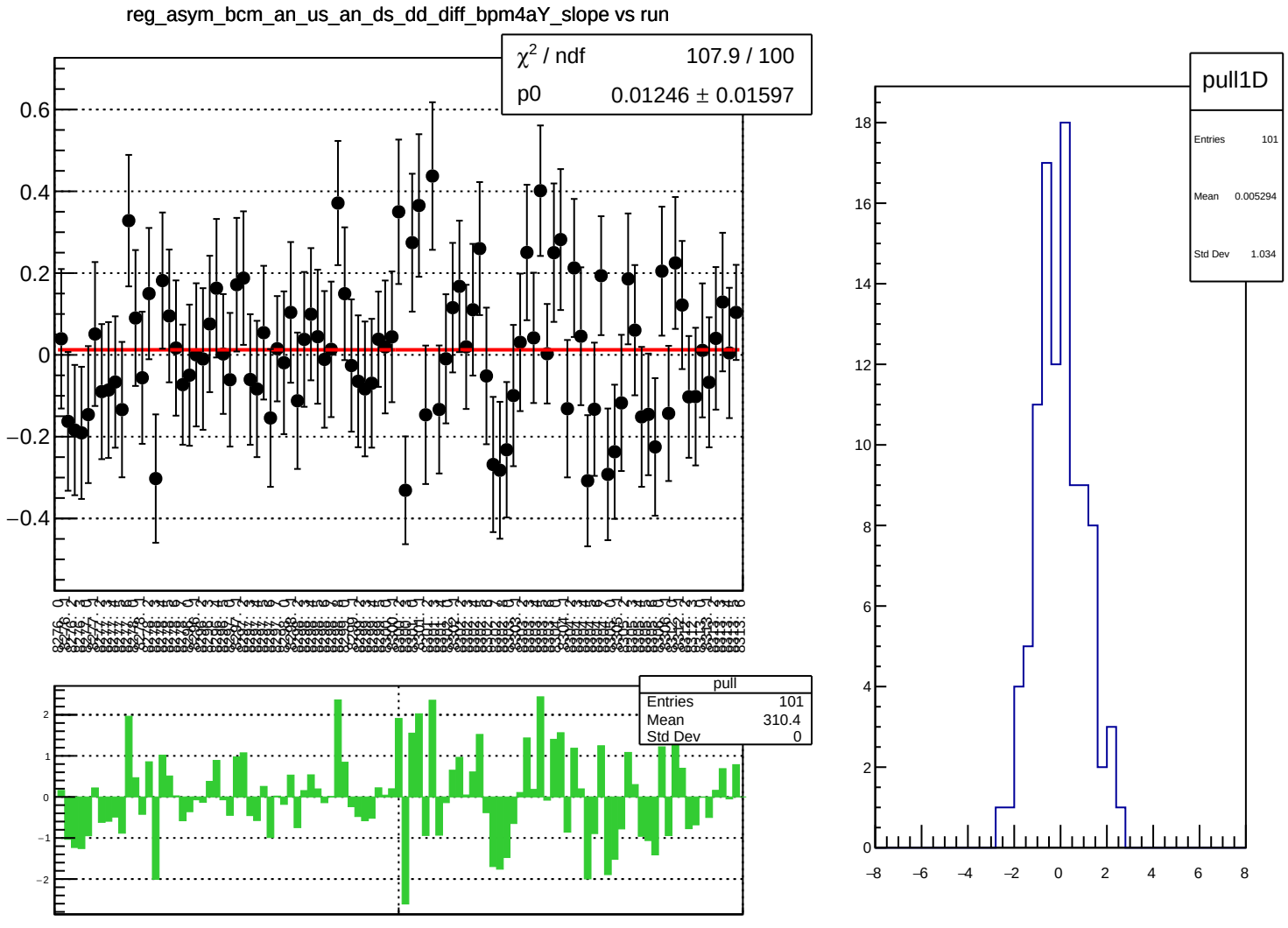

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 91.31 / 100
p0 −3.466 ± 0.3188
pull
Entries 101
Mean −132.8
Std Dev 0

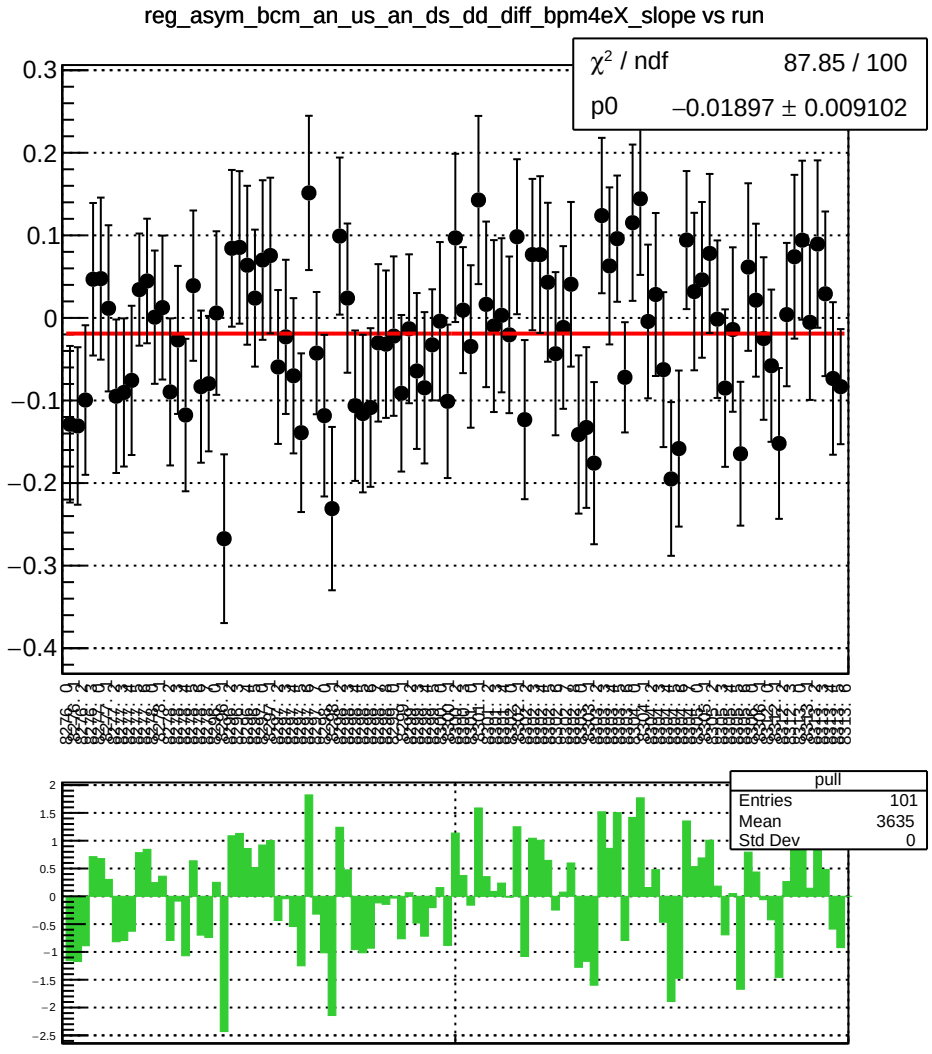

pull1D
Entries 101
Mean −0.01002
Std Dev 0.9508

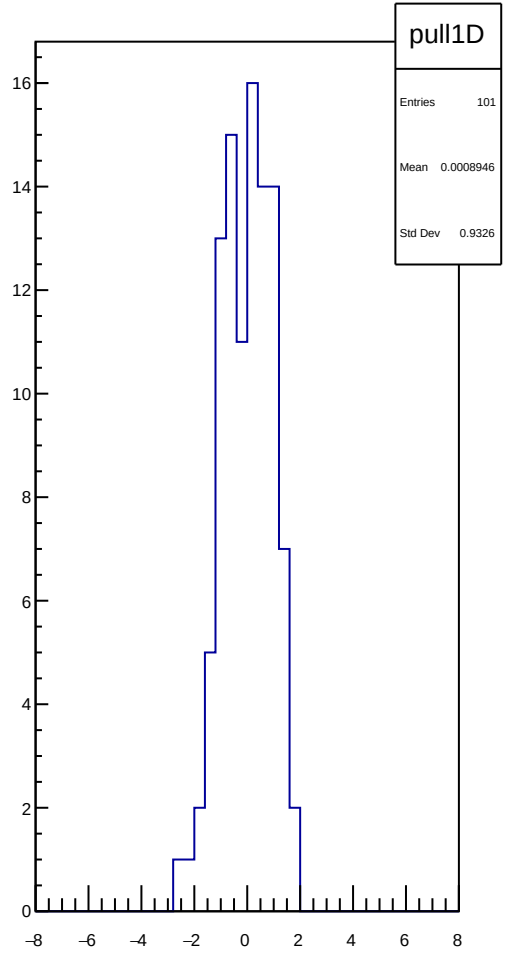

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 172.3 / 100
p0 0.09177 ± 0.01693
pull
Entries 101
Mean −70.83
Std Dev 68.31

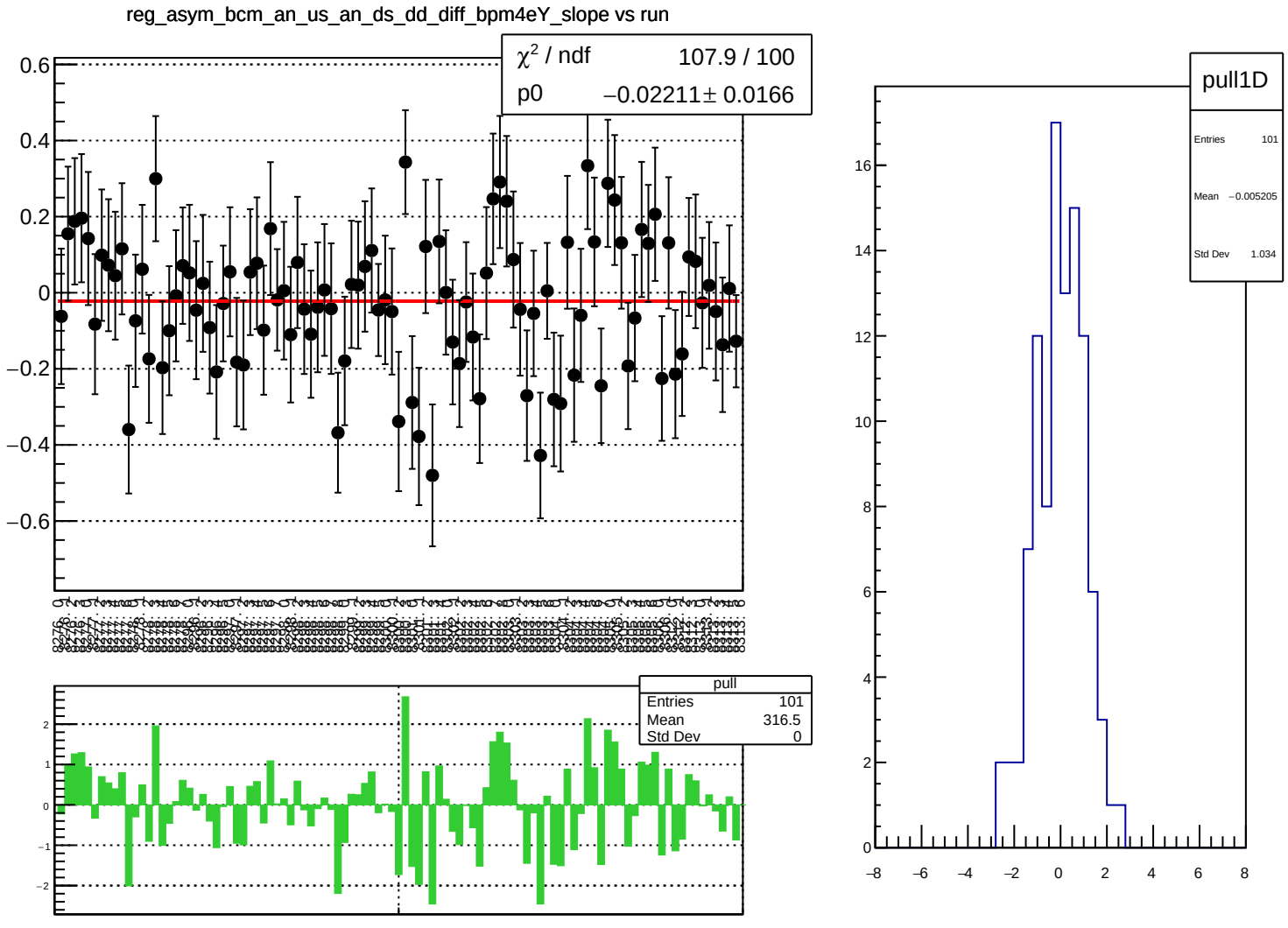

pull1D
Entries 101
Mean −0.02169
Std Dev 1.306

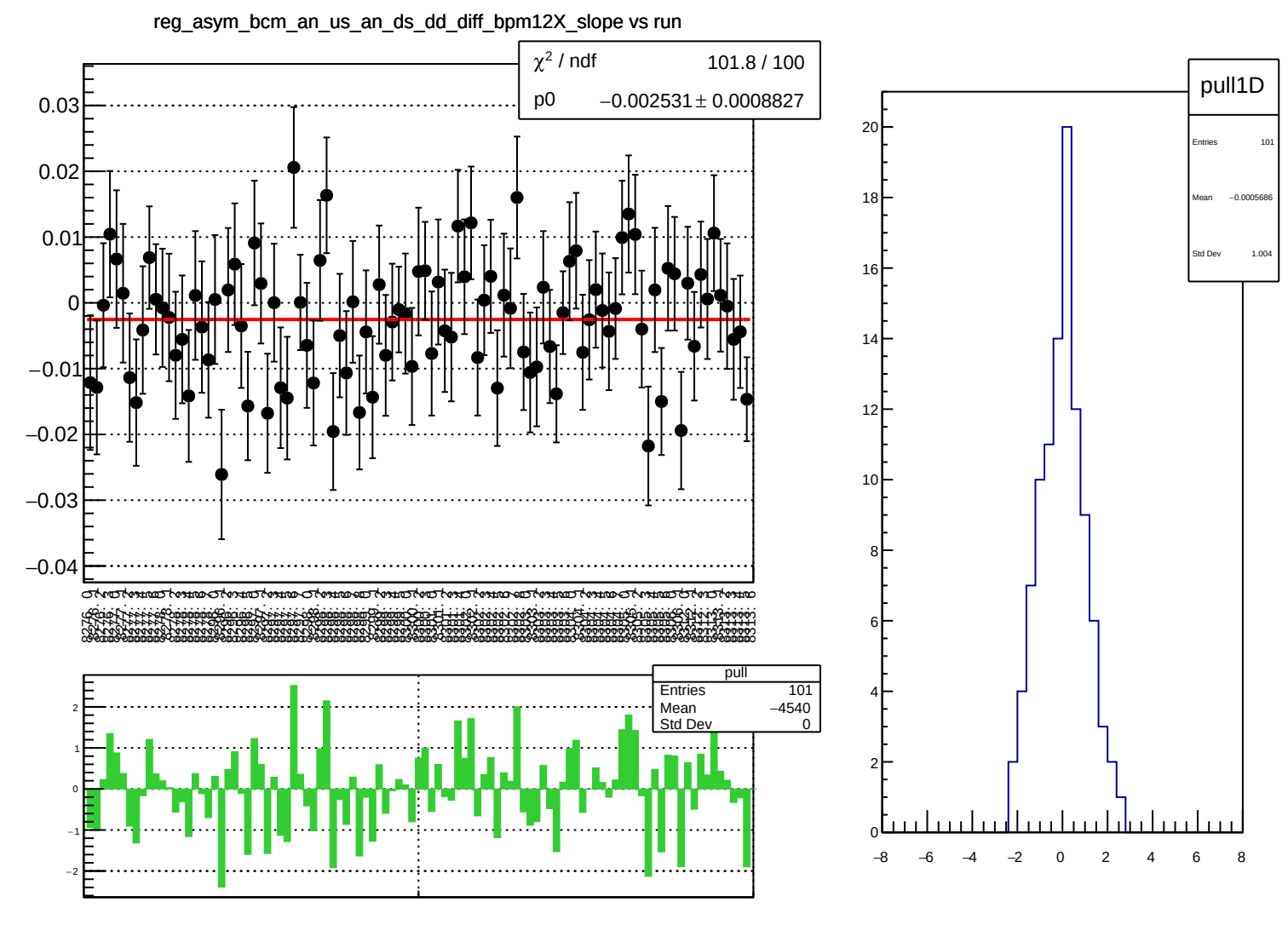

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 87.57 / 100
p0 −0.0004382 ± 0.008142
pull
Entries 101
Mean 1085
Std Dev 0
pull1D
Entries 101
Mean −0.002637
Std Dev 0.9311

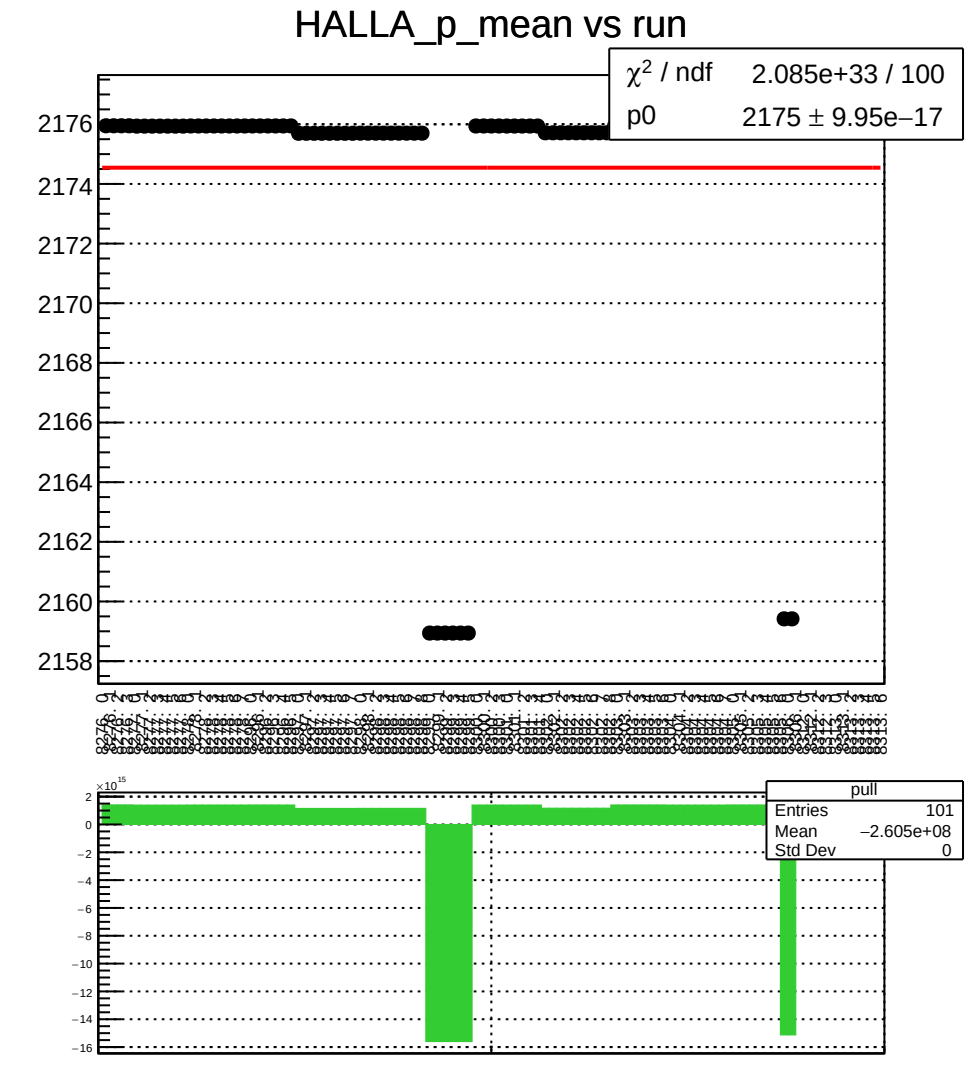

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 107.9 / 100
p0 0.01246 ± 0.01597
pull
Entries 101
Mean 310.4
Std Dev 0
pull1D
Entries 101
Mean 0.005294
Std Dev 1.034

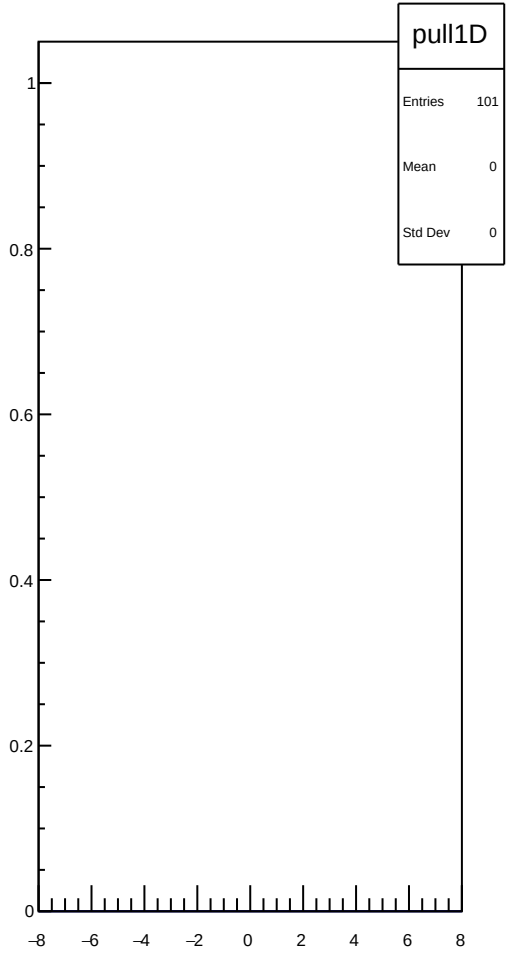

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 87.85 / 100
p0 −0.01897 ± 0.009102
pull
Entries 101
Mean 3635
Std Dev 0

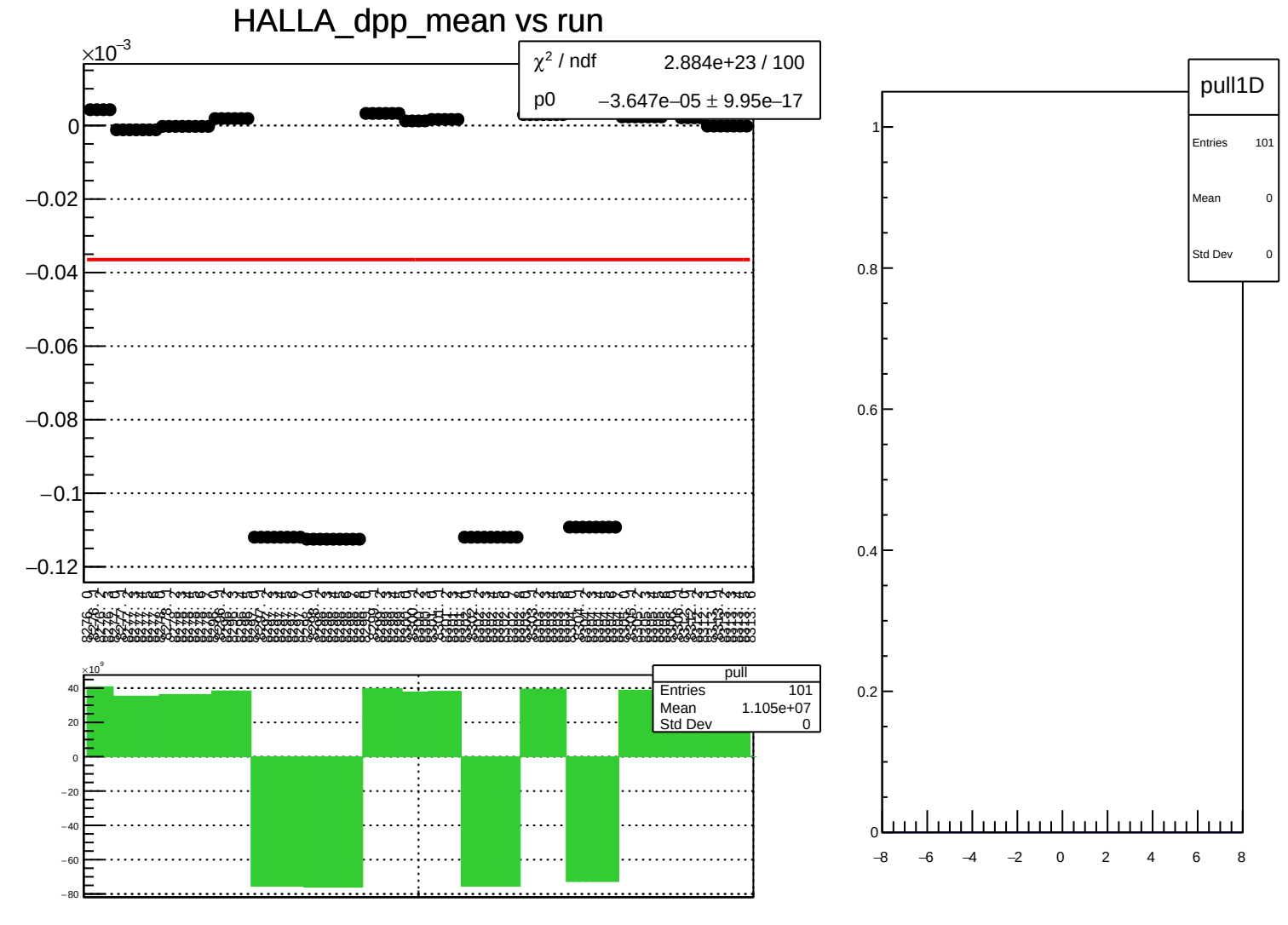

pull1D
Entries 101
Mean 0.0008946
Std Dev 0.9326

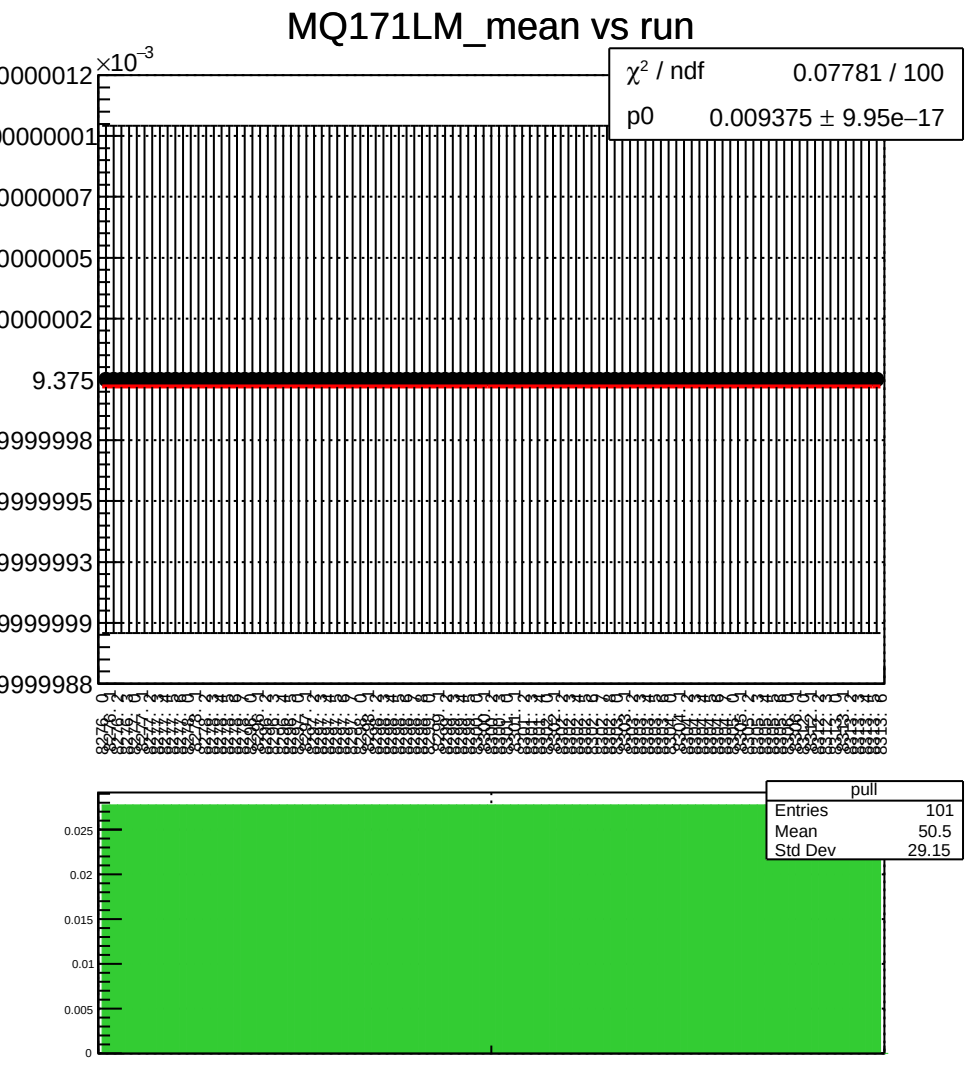

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 107.9 / 100
p0 −0.02211 ± 0.0166
pull
Entries 101
Mean 316.5
Std Dev 0
pull1D
Entries 101
Mean −0.005205
Std Dev 1.034

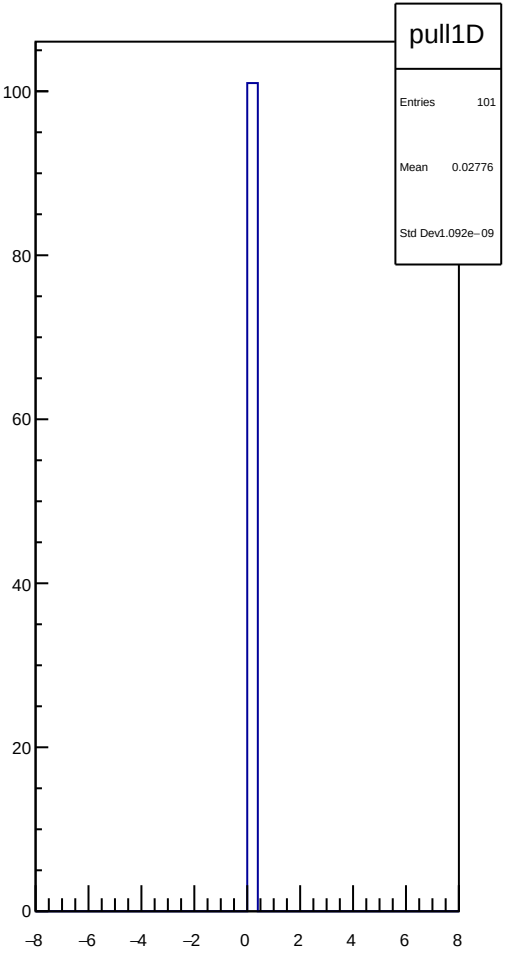

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 101.8 / 100
p0 −0.002531 ± 0.0008827
pull
Entries 101
Mean −4540
Std Dev 0
pull1D
Entries 101
Mean −0.0005686
Std Dev 1.004

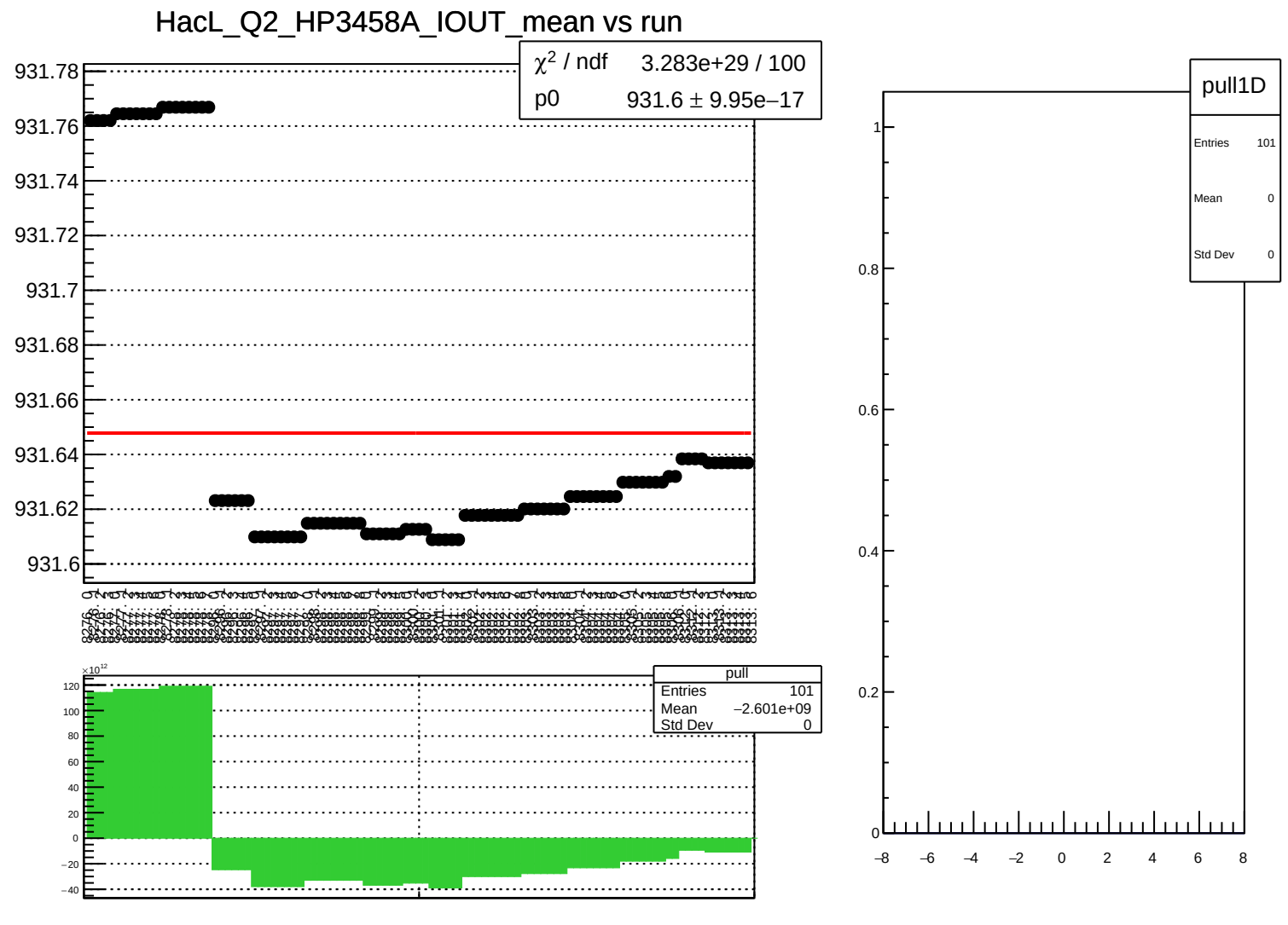

HALLA_p_mean vs run
χ² / ndf 2.085e+33 / 100
p0 2175 ± 9.95e−17
2176
2174
2172
2170
2168
2166
2164
2162
2160
2158
pull
Entries 101
Mean −2.605e+08
Std Dev 0
×10¹⁵
2
0
−2
−4
−6
−8
−10
−12
−14
−16

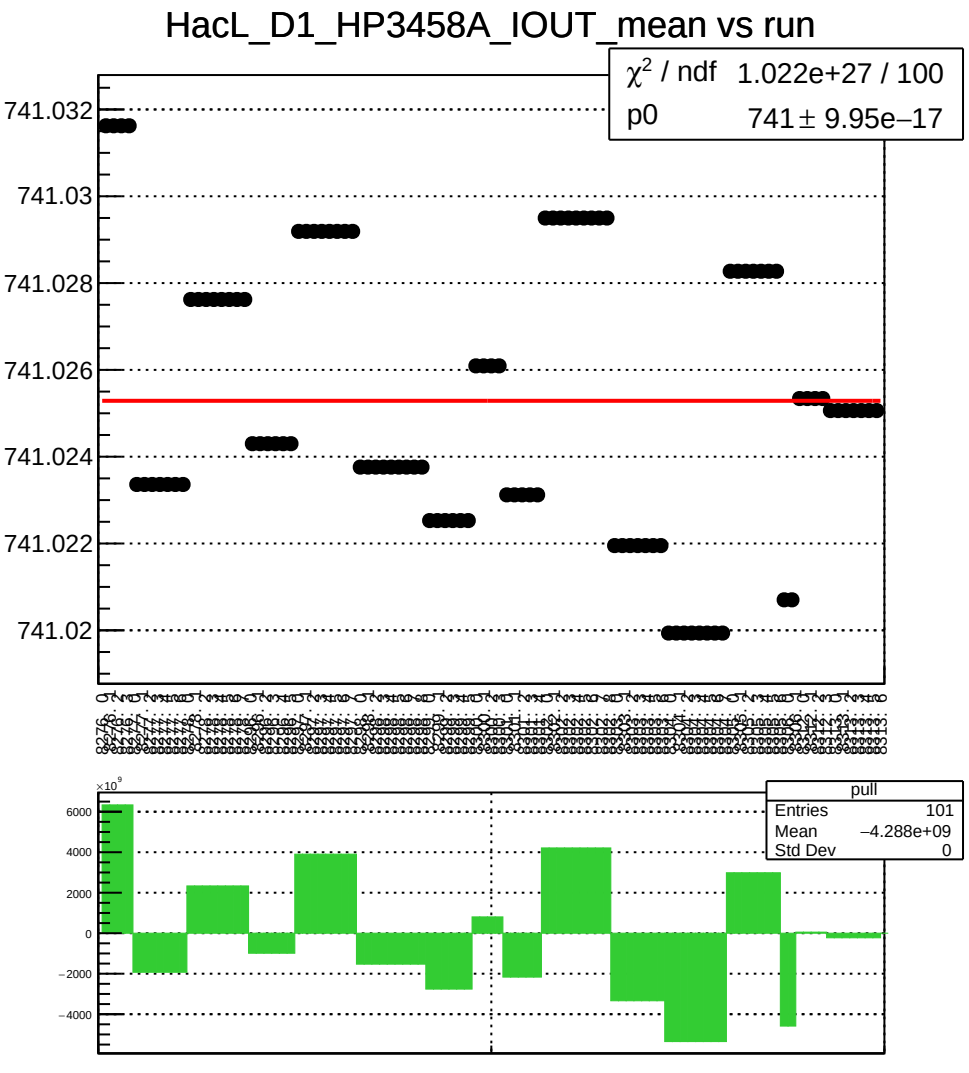

pull1D
Entries 101
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

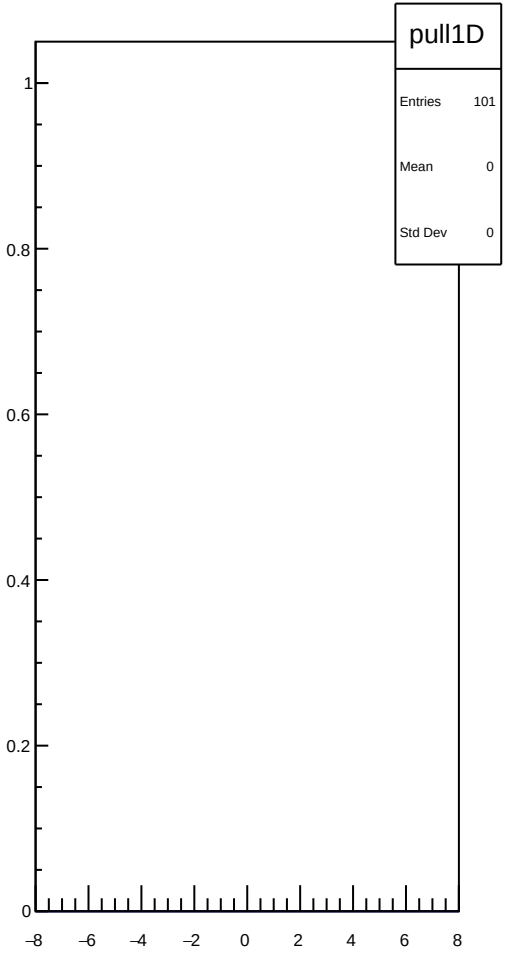

HALLA_dpp_mean vs run
χ² / ndf 2.884e+23 / 100
p0 −3.647e−05 ± 9.95e−17
×10⁻³
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
pull
Entries 101
Mean 1.105e+07
Std Dev 0
×10⁹
40
20
0
−20
−40
−60
−80
pull1D
Entries 101
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

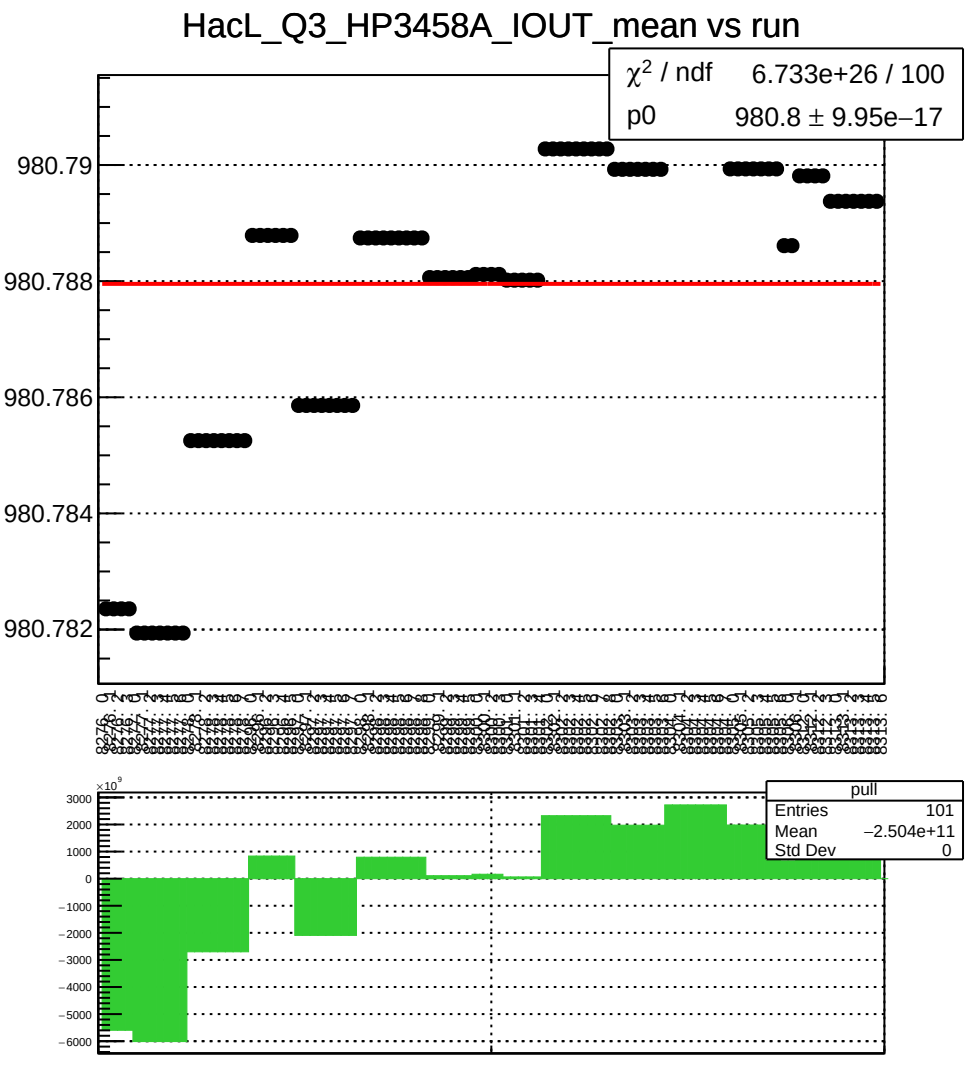

MQ171LM_mean vs run
χ² / ndf 0.07781 / 100
p0 0.009375 ± 9.95e−17
×10⁻³
pull
Entries 101
Mean 50.5
Std Dev 29.15

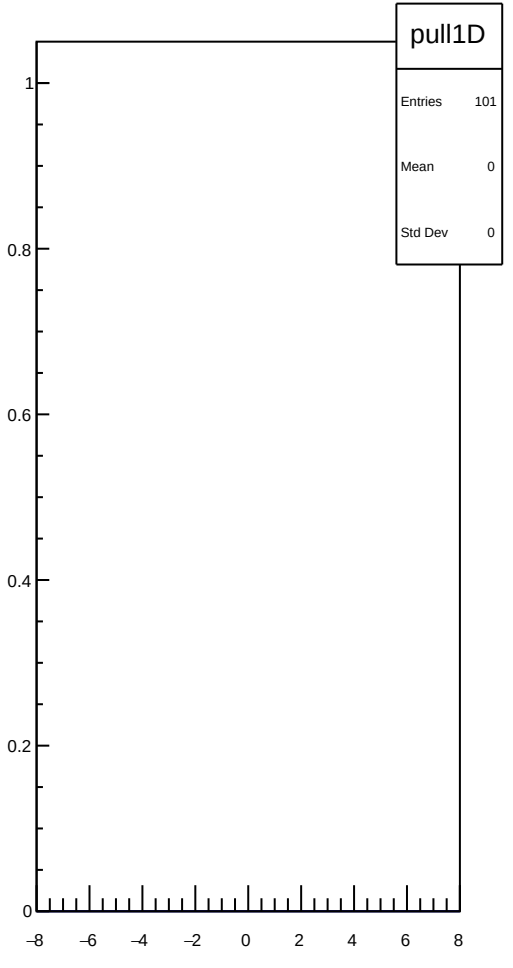

pull1D
Entries 101
Mean 0.02776
Std Dev1.092e−09

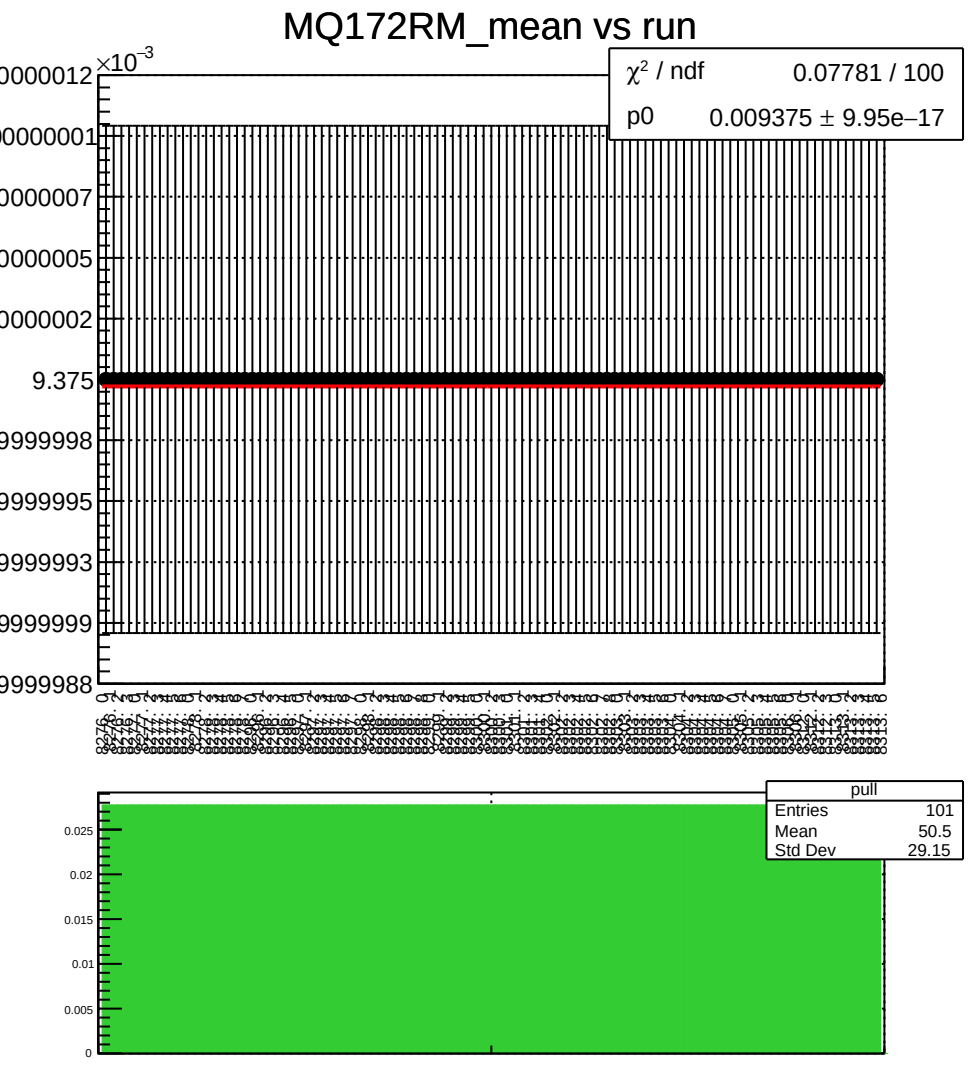

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 3.283e+29 / 100
p0 931.6 ± 9.95e−17
931.78
931.76
931.74
931.72
931.7
931.68
931.66
931.64
931.62
931.6
pull
Entries 101
Mean −2.601e+09
Std Dev 0
×10¹²
120
100
80
60
40
20
0
−20
−40
pull1D
Entries 101
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

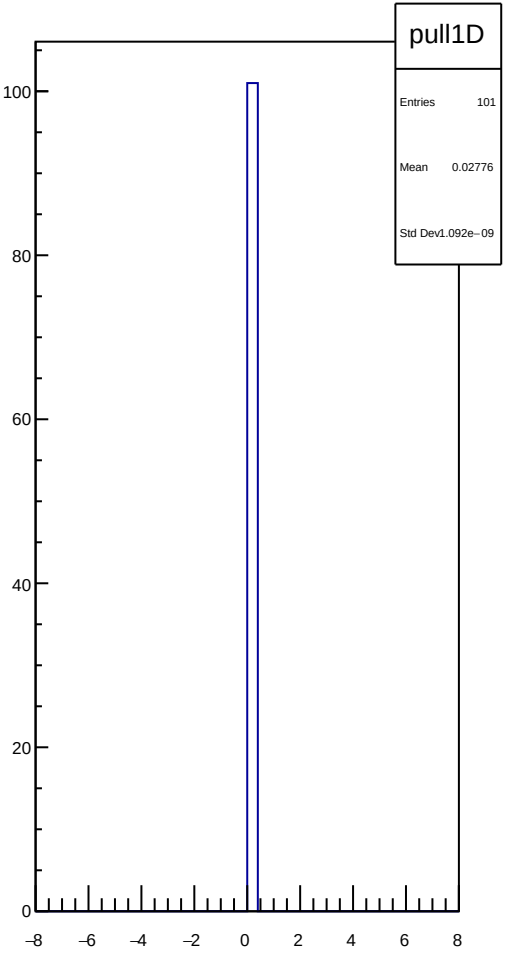

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.022e+27 / 100
p0 741 ± 9.95e−17
741.032
741.03
741.028
741.026
741.024
741.022
741.02
×10⁹
6000
4000
2000
0
−2000
−4000
pull
Entries 101
Mean −4.288e+09
Std Dev 0

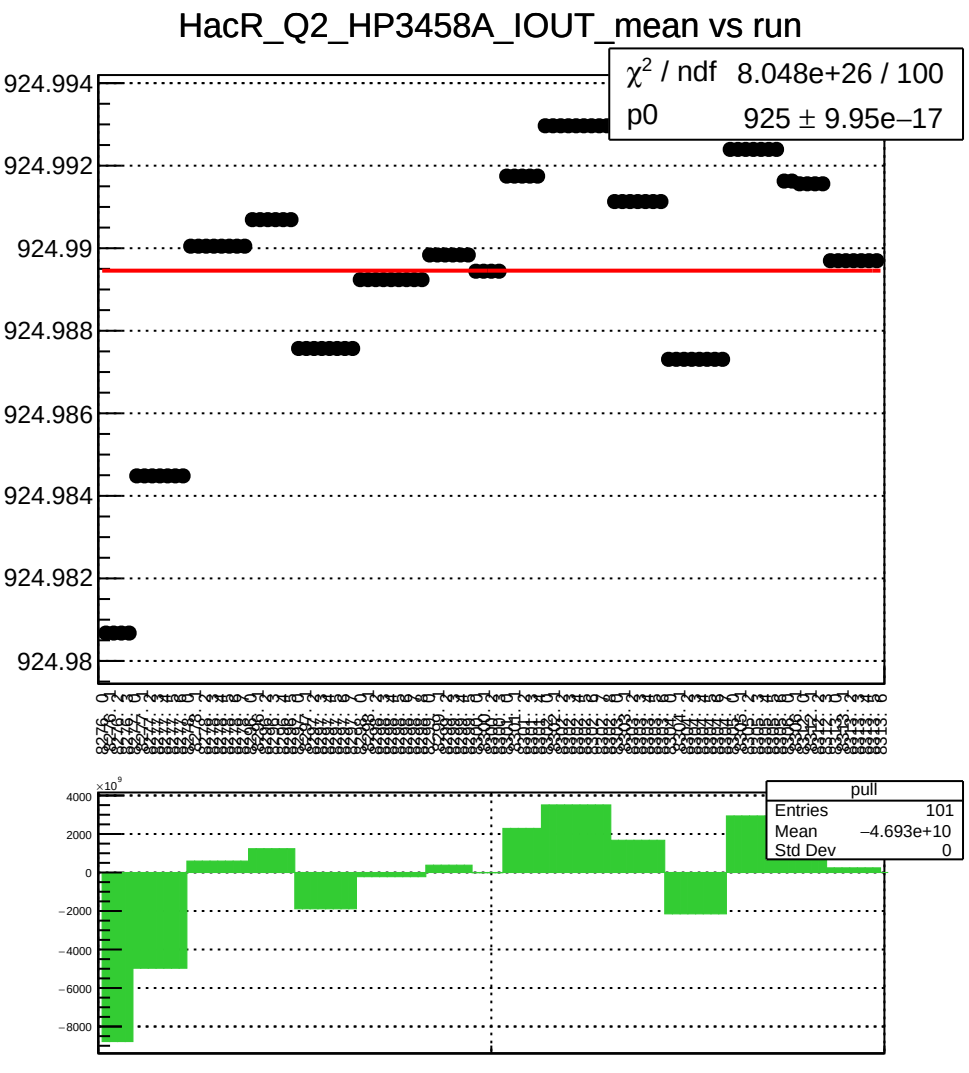

pull1D
Entries 101
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

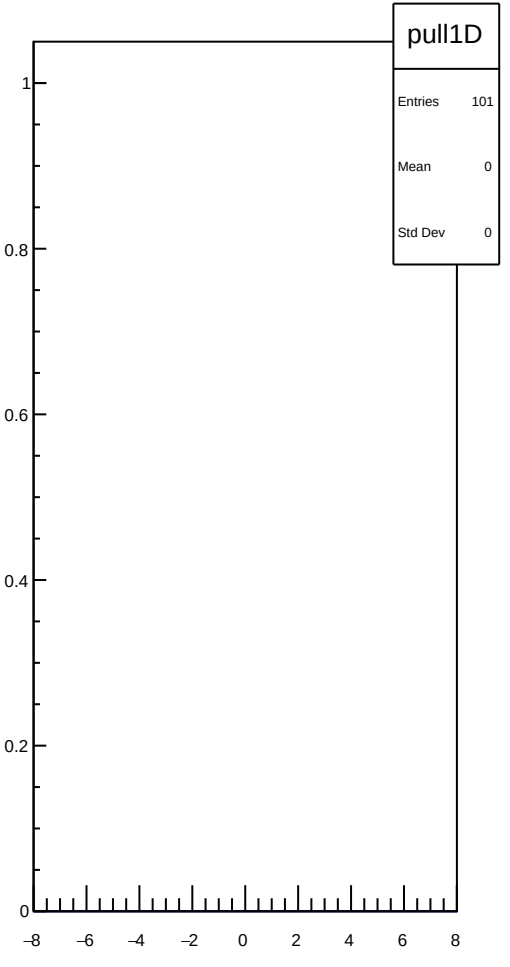

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 6.733e+26 / 100
p0 980.8 ± 9.95e−17
980.79
980.788
980.786
980.784
980.782
×10⁹
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
−6000
pull
Entries 101
Mean −2.504e+11
Std Dev 0

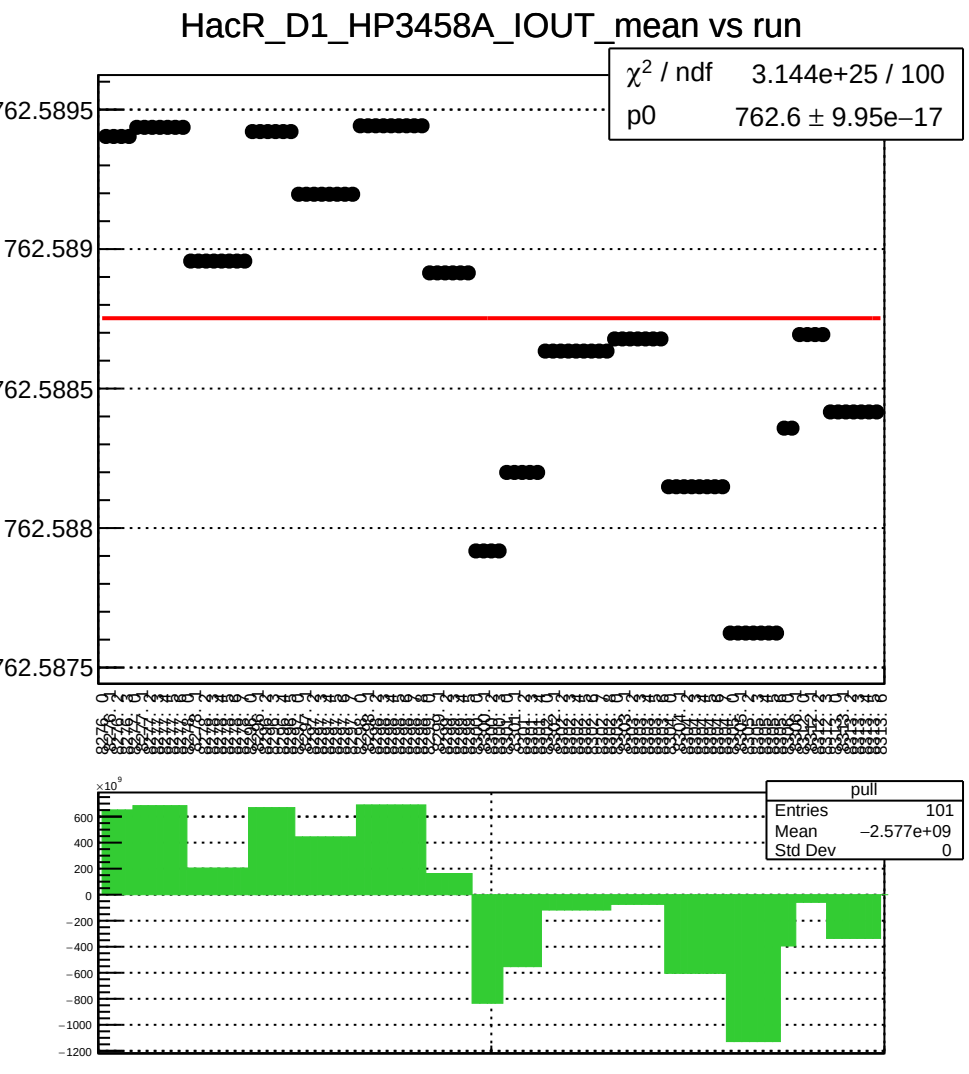

pull1D
Entries 101
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

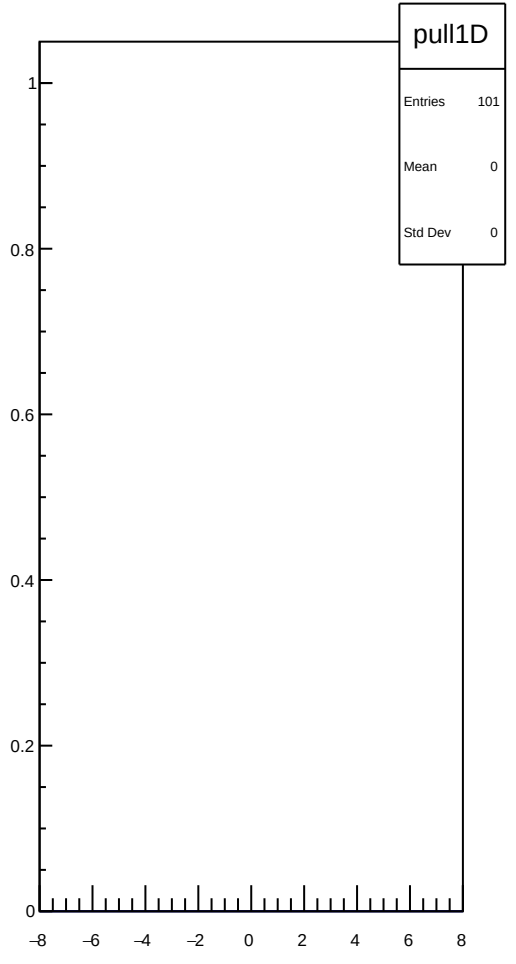

MQ172RM_mean vs run
χ² / ndf 0.07781 / 100
p0 0.009375 ± 9.95e−17
×10⁻³
pull
Entries 101
Mean 50.5
Std Dev 29.15

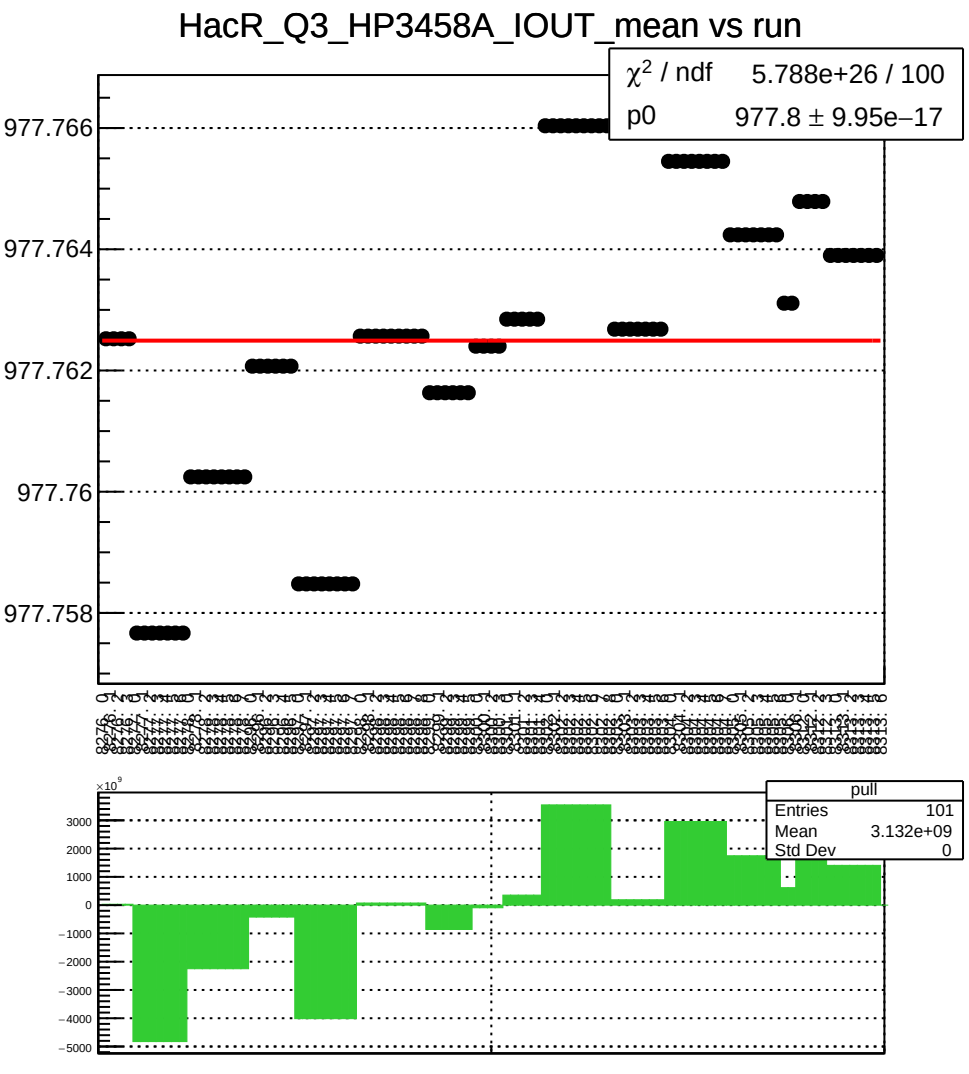

pull1D
Entries 101
Mean 0.02776
Std Dev 1.092e−09

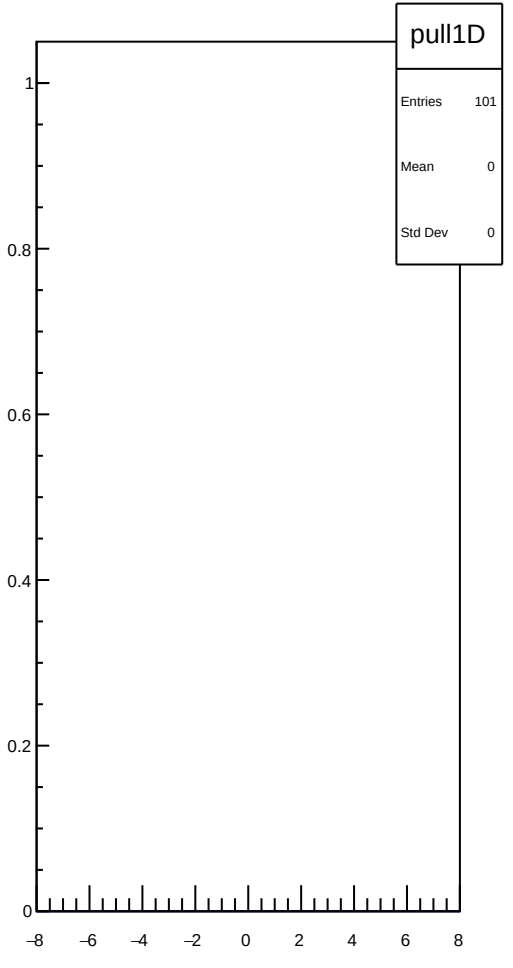

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 8.048e+26 / 100
p0 925 ± 9.95e−17
924.994
924.992
924.99
924.988
924.986
924.984
924.982
924.98
pull
Entries 101
Mean −4.693e+10
Std Dev 0
×10⁹
4000
2000
0
−2000
−4000
−6000
−8000

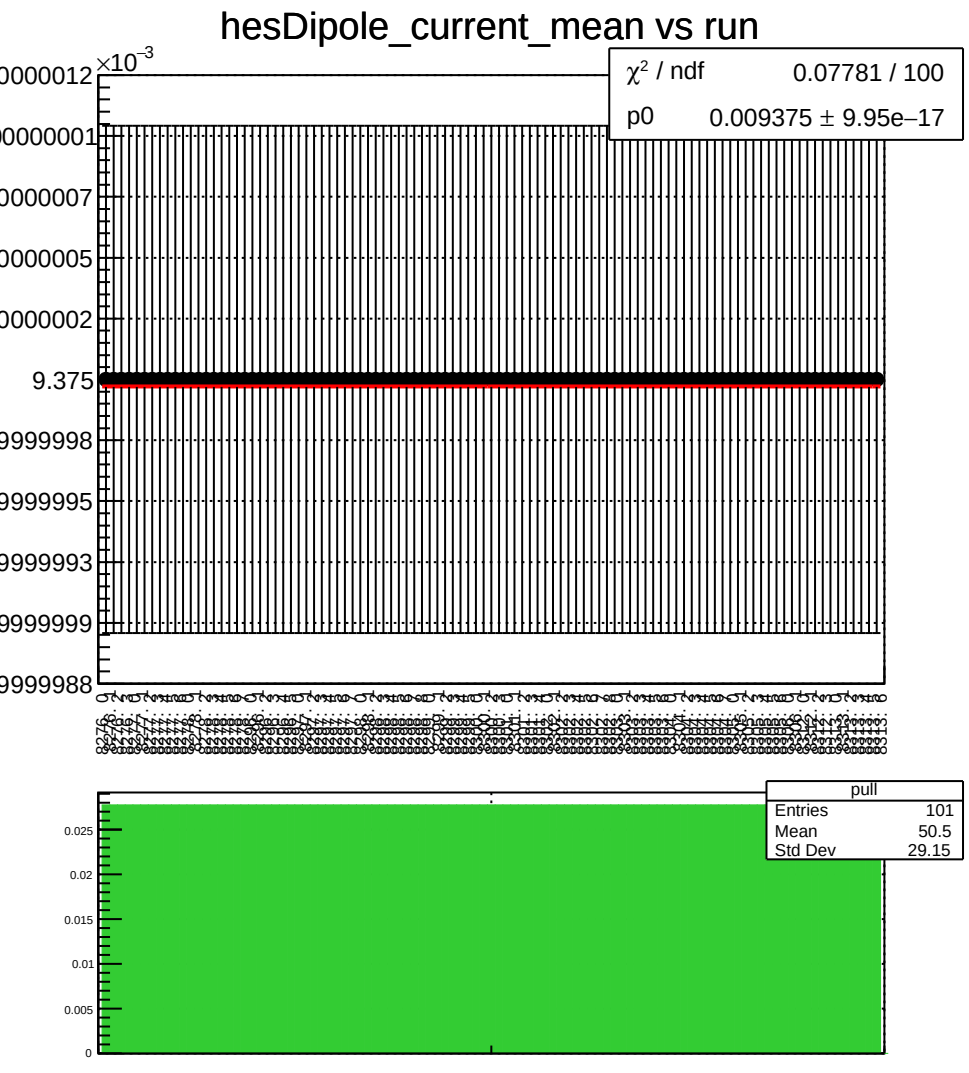

pull1D
Entries 101
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

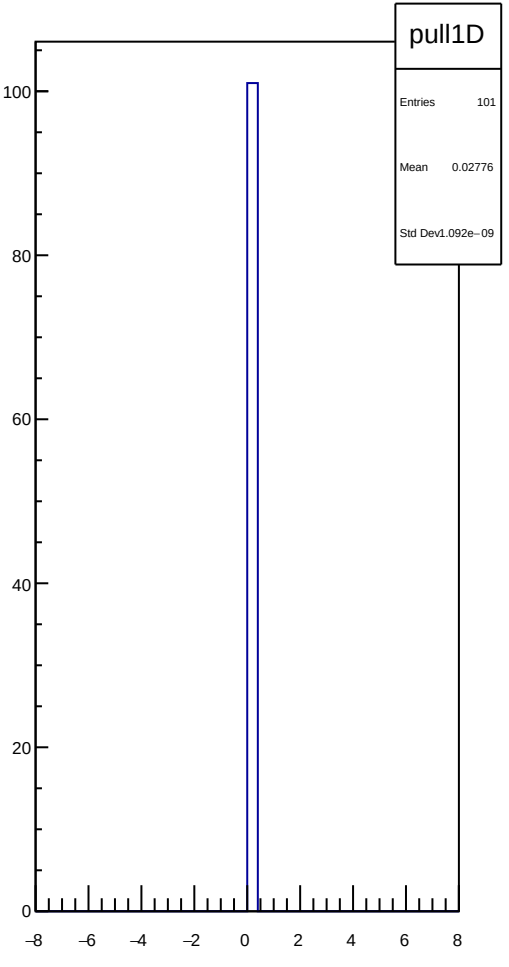

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 3.144e+25 / 100
p0 762.6 ± 9.95e−17
762.5895
762.589
762.5885
762.588
762.5875
pull
Entries 101
Mean −2.577e+09
Std Dev 0
×10⁹
600
400
200
0
−200
−400
−600
−800
−1000
−1200

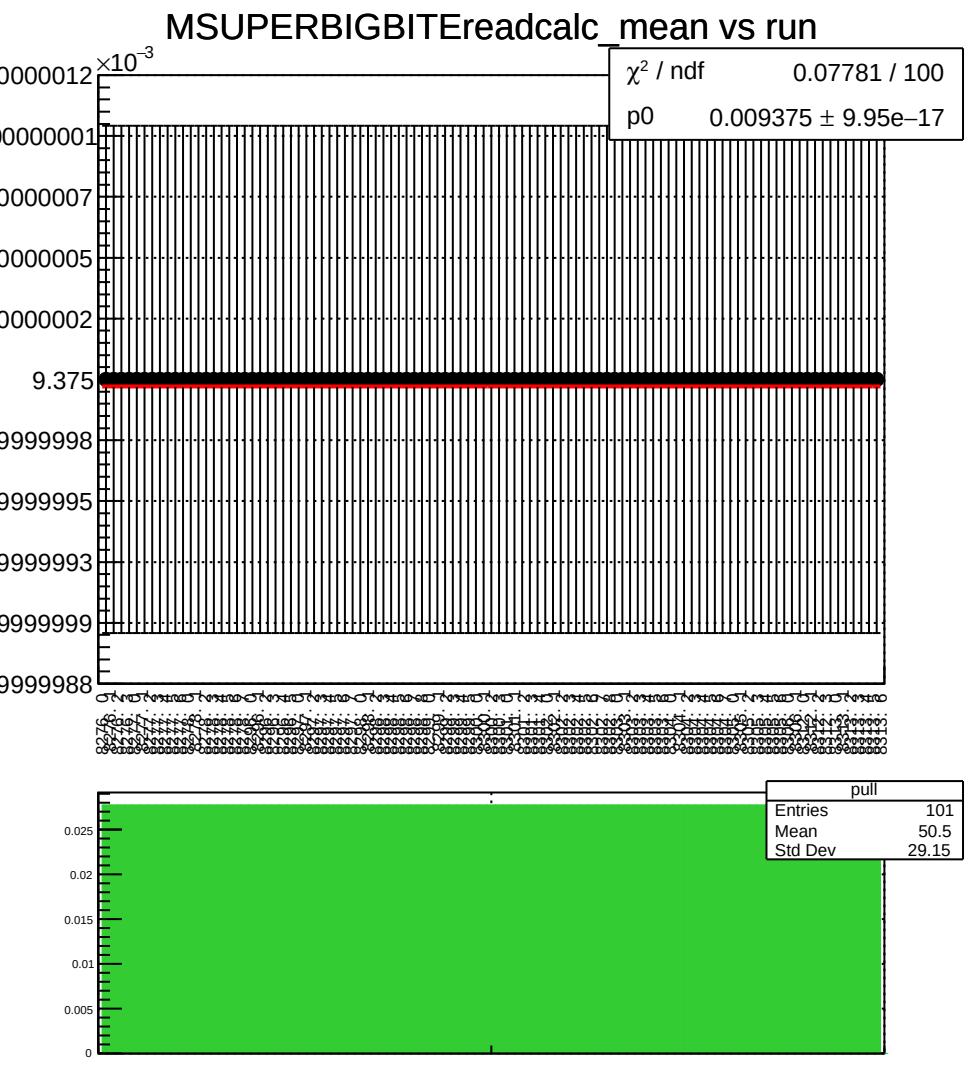

pull1D
Entries 101
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

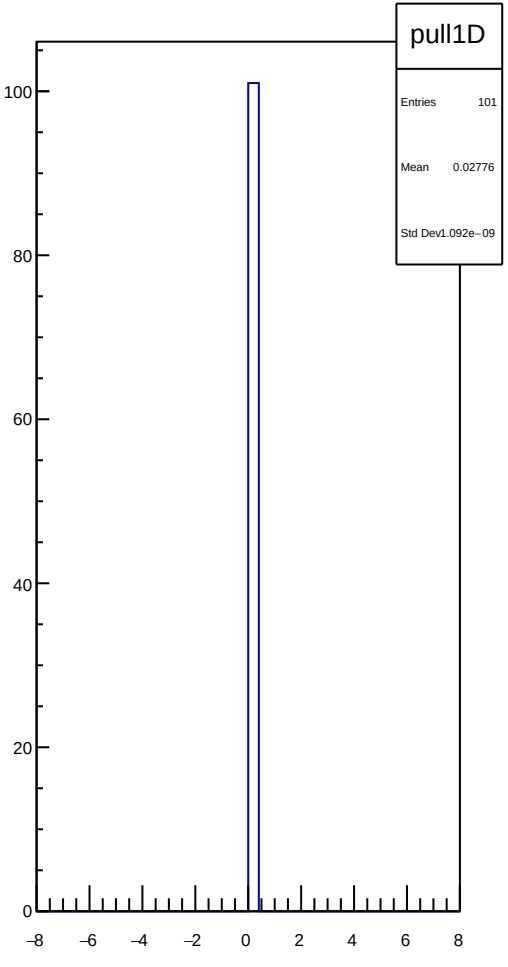

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 5.788e+26 / 100
p0 977.8 ± 9.95e−17
977.766
977.764
977.762
977.76
977.758
×10⁹
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
pull
Entries 101
Mean 3.132e+09
Std Dev 0

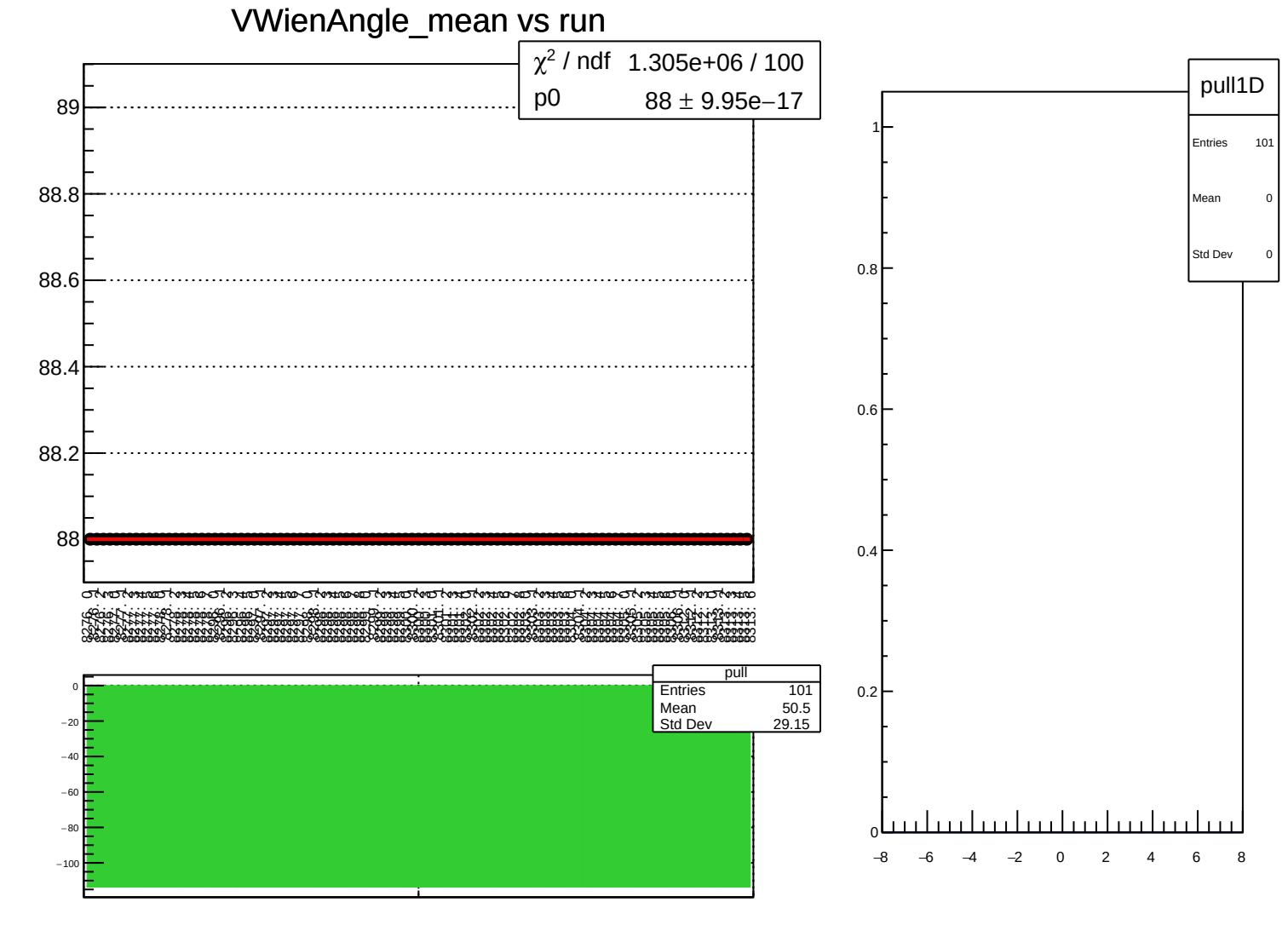

pull1D
Entries 101
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

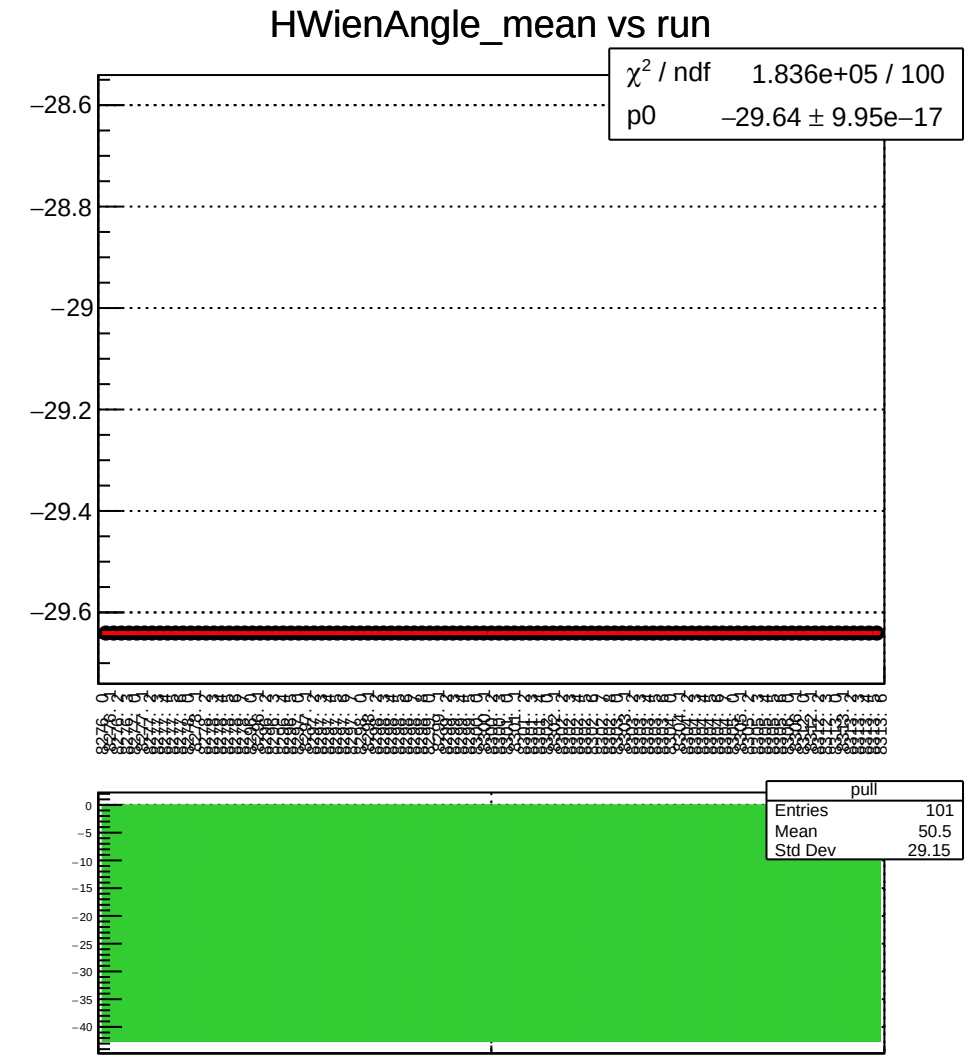

hesDipole_current_mean vs run
χ² / ndf 0.07781 / 100
p0 0.009375 ± 9.95e−17
×10⁻³
pull
Entries 101
Mean 50.5
Std Dev 29.15

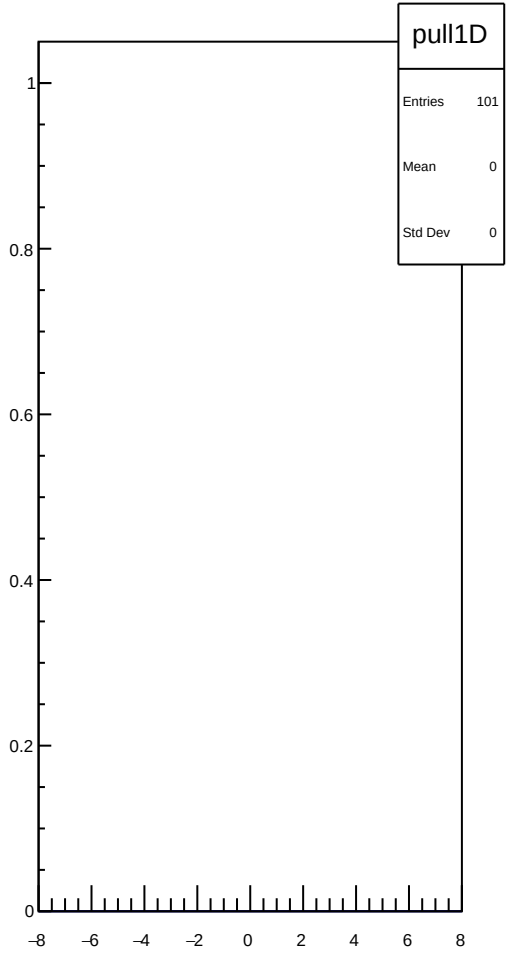

pull1D
Entries 101
Mean 0.02776
Std Dev 1.092e−09

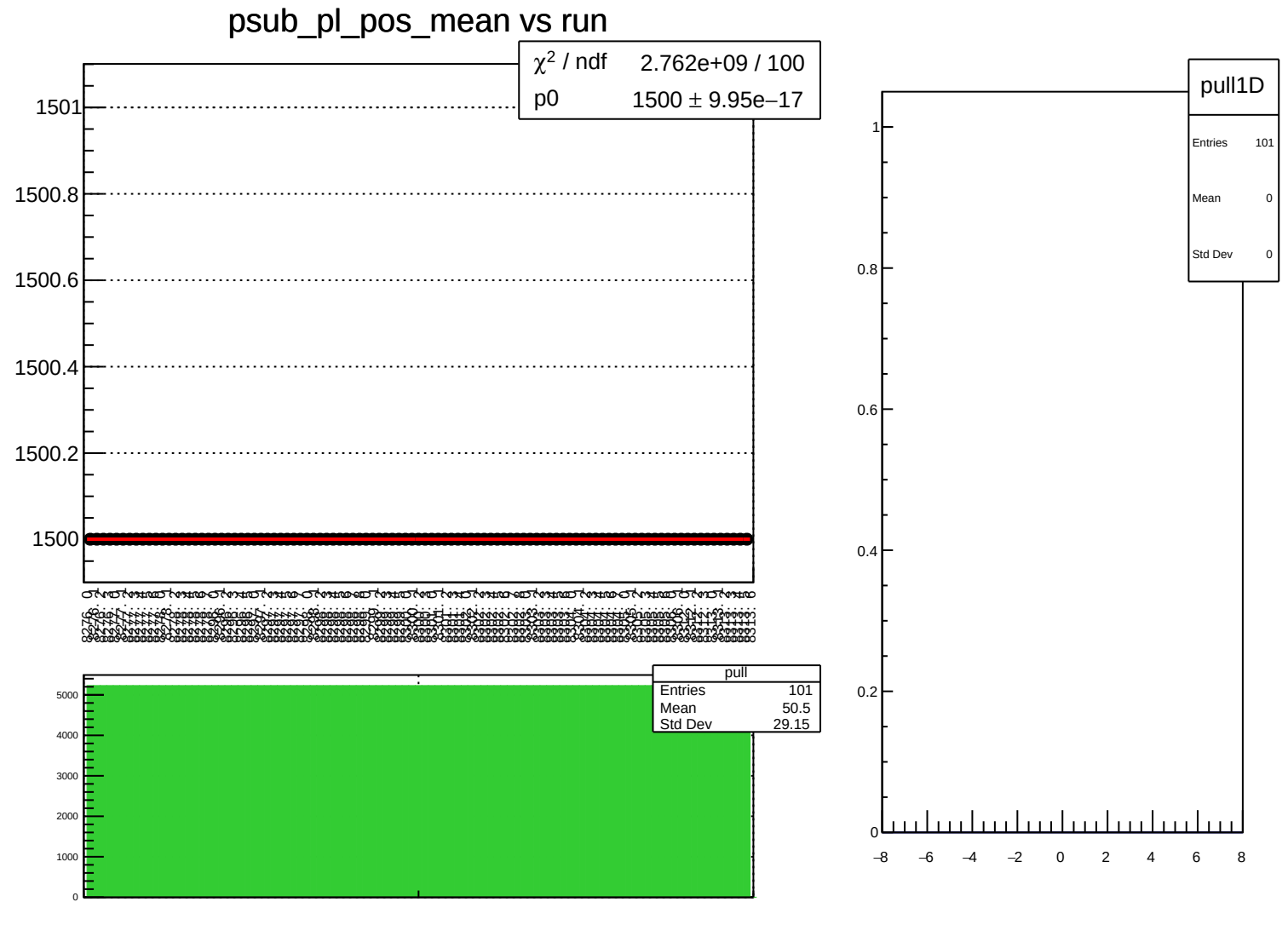

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.07781 / 100
p0 0.009375 ± 9.95e−17
×10⁻³
pull
Entries 101
Mean 50.5
Std Dev 29.15

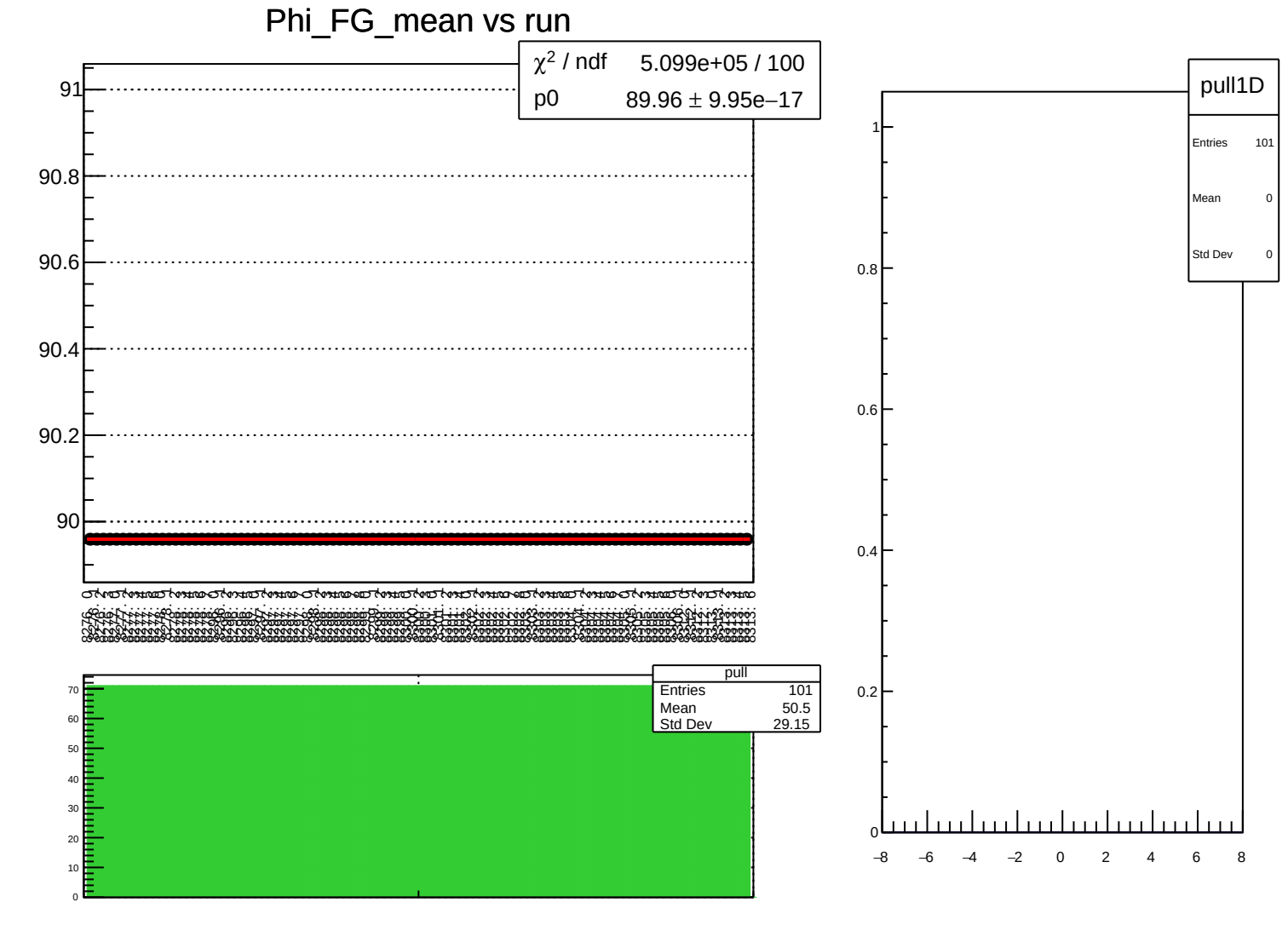

pull1D
Entries 101
Mean 0.02776
Std Dev 1.092e−09

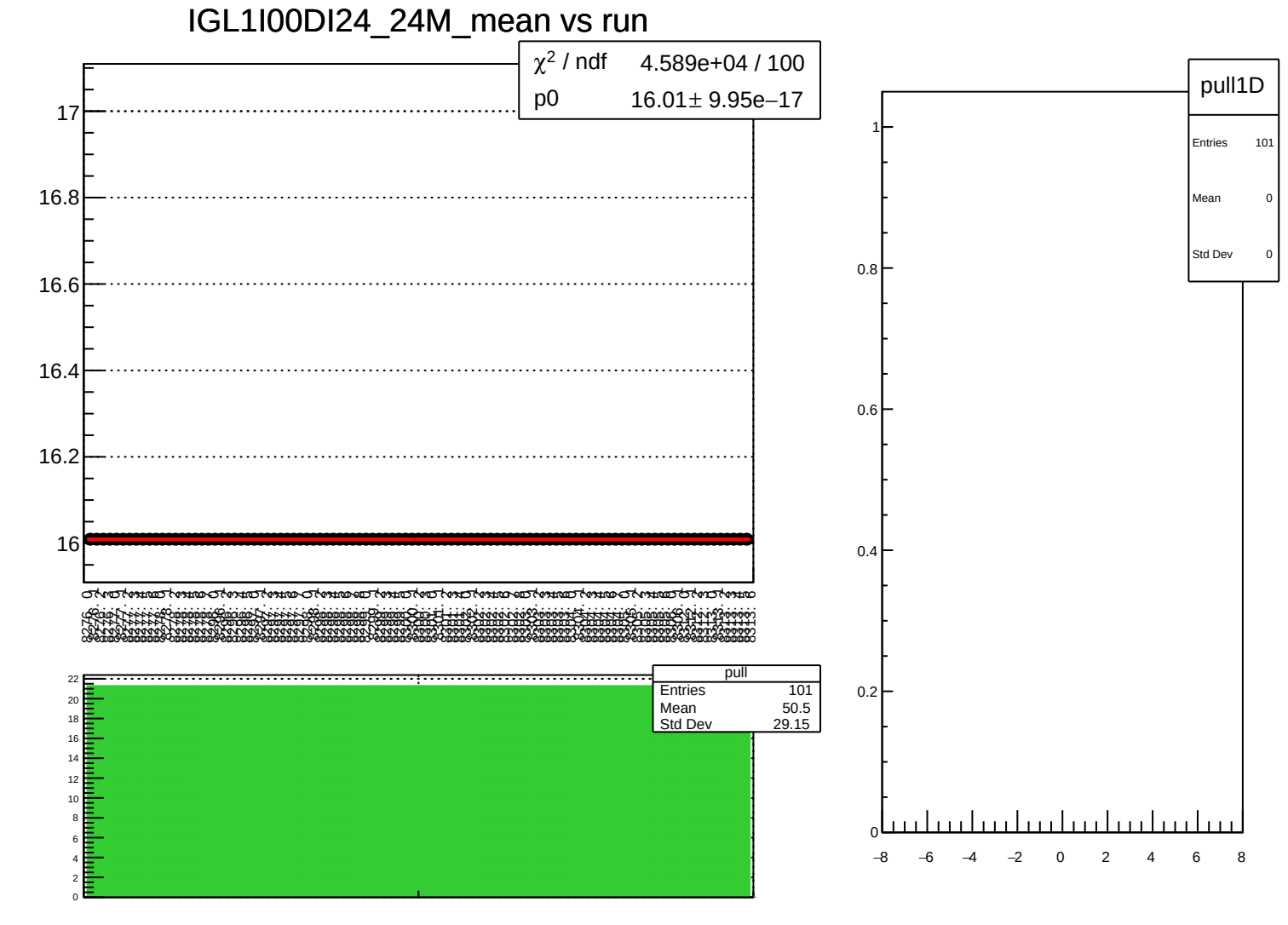

VWienAngle_mean vs run
χ² / ndf 1.305e+06 / 100
p0 88 ± 9.95e−17
89
88.8
88.6
88.4
88.2
88
pull
Entries 101
Mean 50.5
Std Dev 29.15
0
−20
−40
−60
−80
−100
pull1D
Entries 101
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

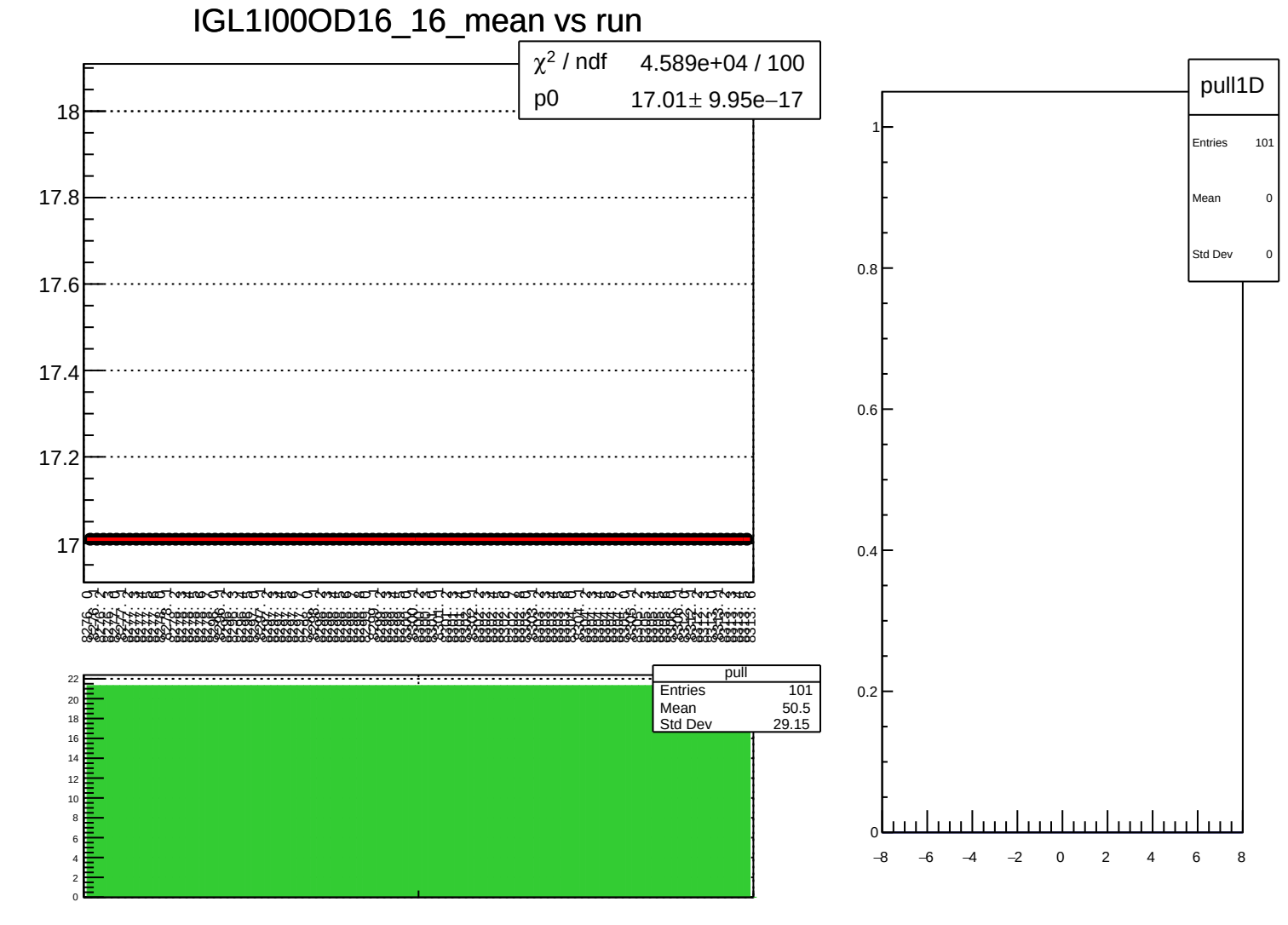

HWienAngle_mean vs run
χ² / ndf 1.836e+05 / 100
p0 −29.64 ± 9.95e−17
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 101
Mean 50.5
Std Dev 29.15
0
−5
−10
−15
−20
−25
−30
−35
−40

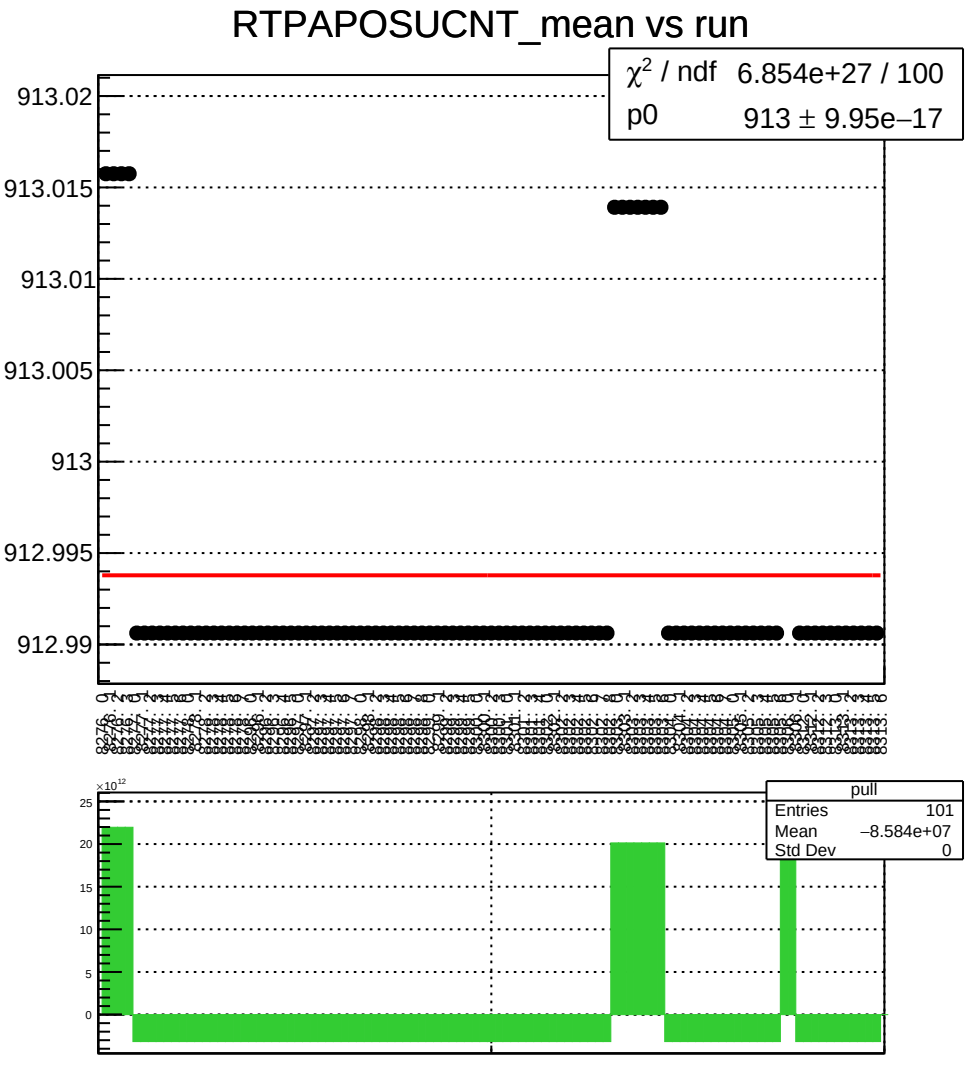

pull1D
Entries 101
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

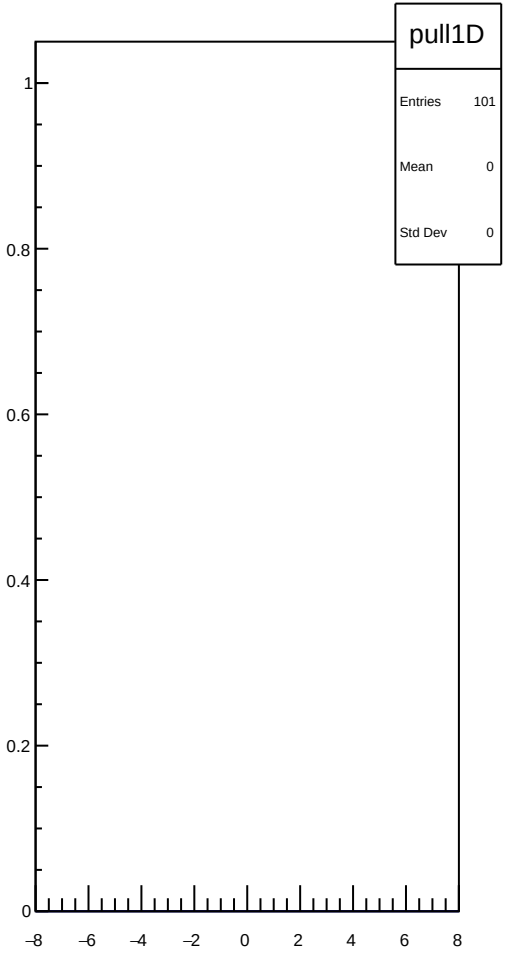

psub_pl_pos_mean vs run
χ² / ndf 2.762e+09 / 100
p0 1500 ± 9.95e−17
1501
1500.8
1500.6
1500.4
1500.2
1500
pull
Entries 101
Mean 50.5
Std Dev 29.15
5000
4000
3000
2000
1000
0
pull1D
Entries 101
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

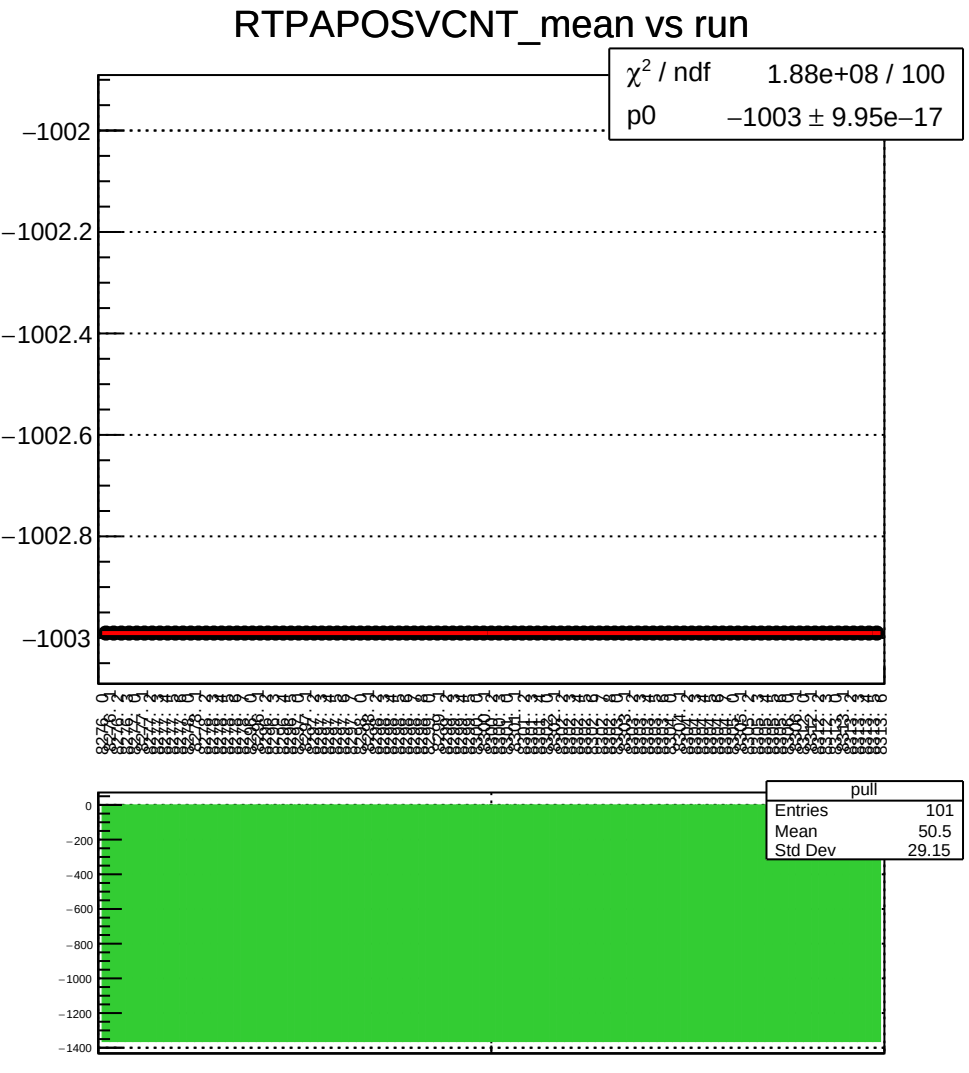

Phi_FG_mean vs run
χ² / ndf 5.099e+05 / 100
p0 89.96 ± 9.95e−17
91
90.8
90.6
90.4
90.2
90
pull
Entries 101
Mean 50.5
Std Dev 29.15
70
60
50
40
30
20
10
0
pull1D
Entries 101
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

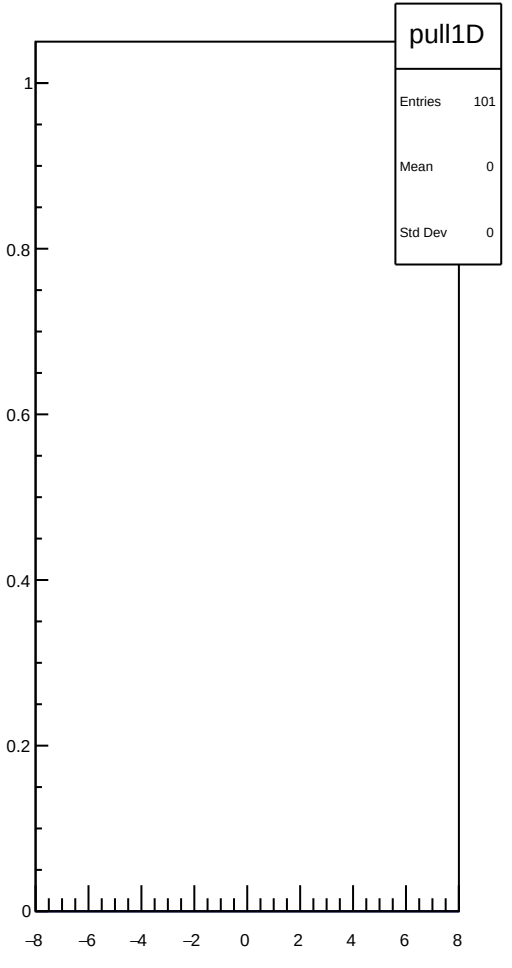

IGL1I00DI24_24M_mean vs run
χ² / ndf 4.589e+04 / 100
p0 16.01± 9.95e−17
17
16.8
16.6
16.4
16.2
16
pull
Entries 101
Mean 50.5
Std Dev 29.15
22
20
18
16
14
12
10
8
6
4
2
0
pull1D
Entries 101
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

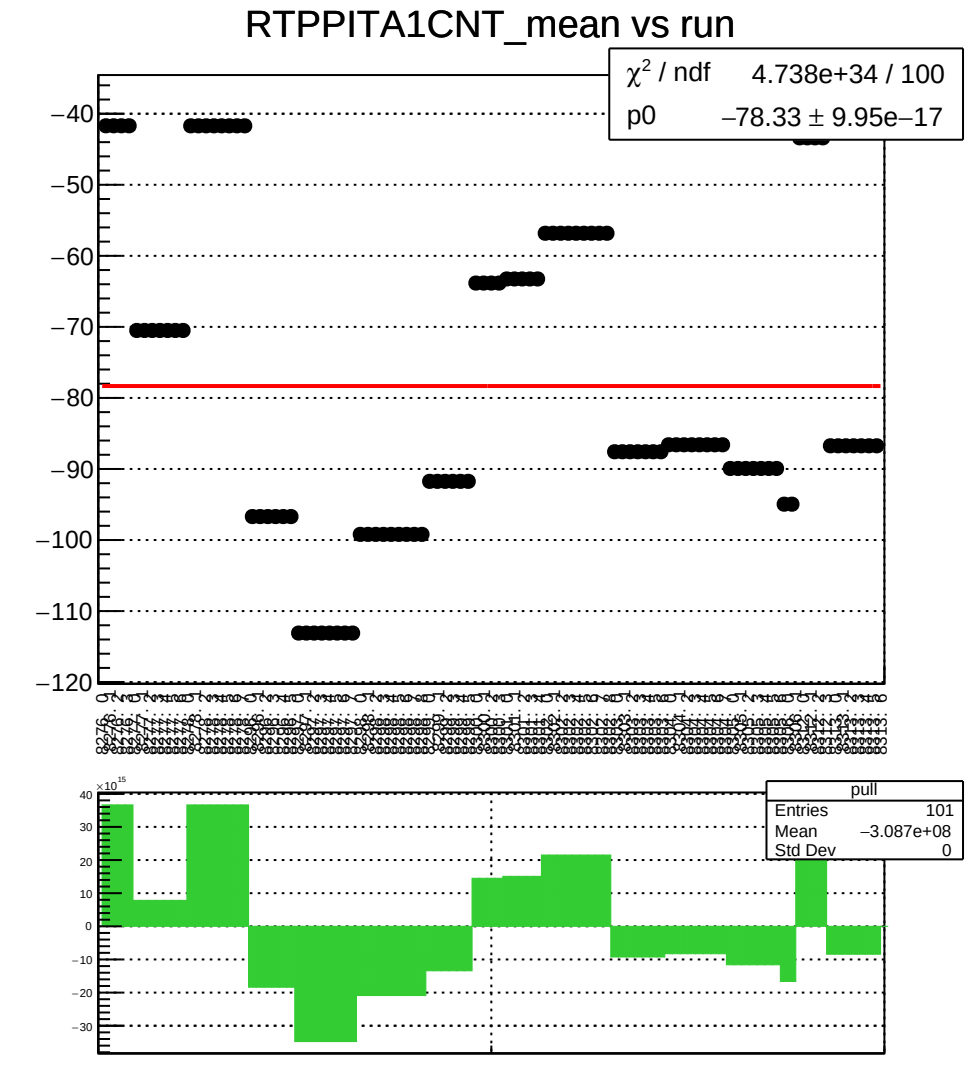

IGL1I00OD16_16_mean vs run
χ² / ndf 4.589e+04 / 100
p0 17.01± 9.95e−17
18
17.8
17.6
17.4
17.2
17
pull
Entries 101
Mean 50.5
Std Dev 29.15
22
20
18
16
14
12
10
8
6
4
2
0
pull1D
Entries 101
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

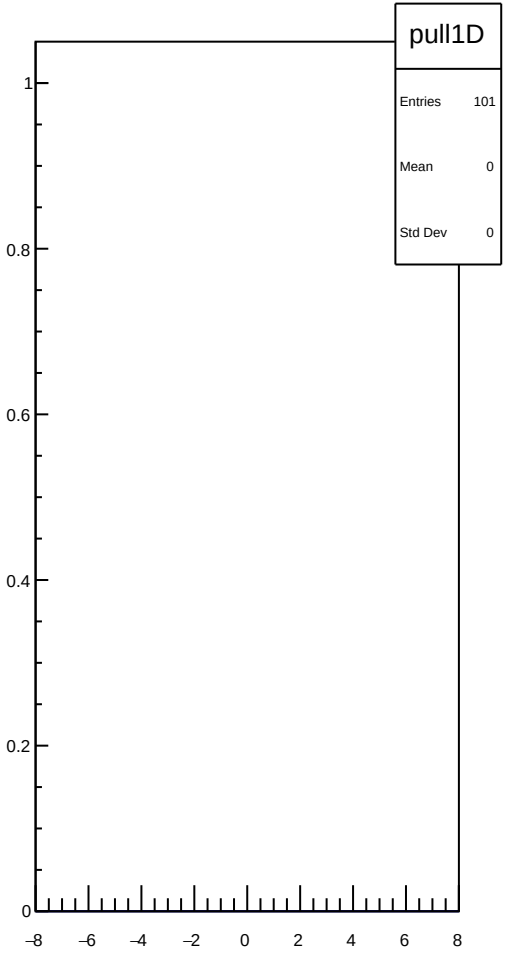

RTPAPOSUCNT_mean vs run
χ² / ndf 6.854e+27 / 100
p0 913 ± 9.95e−17
913.02
913.015
913.01
913.005
913
912.995
912.99
pull
Entries 101
Mean −8.584e+07
Std Dev 0
×10¹²
25
20
15
10
5
0

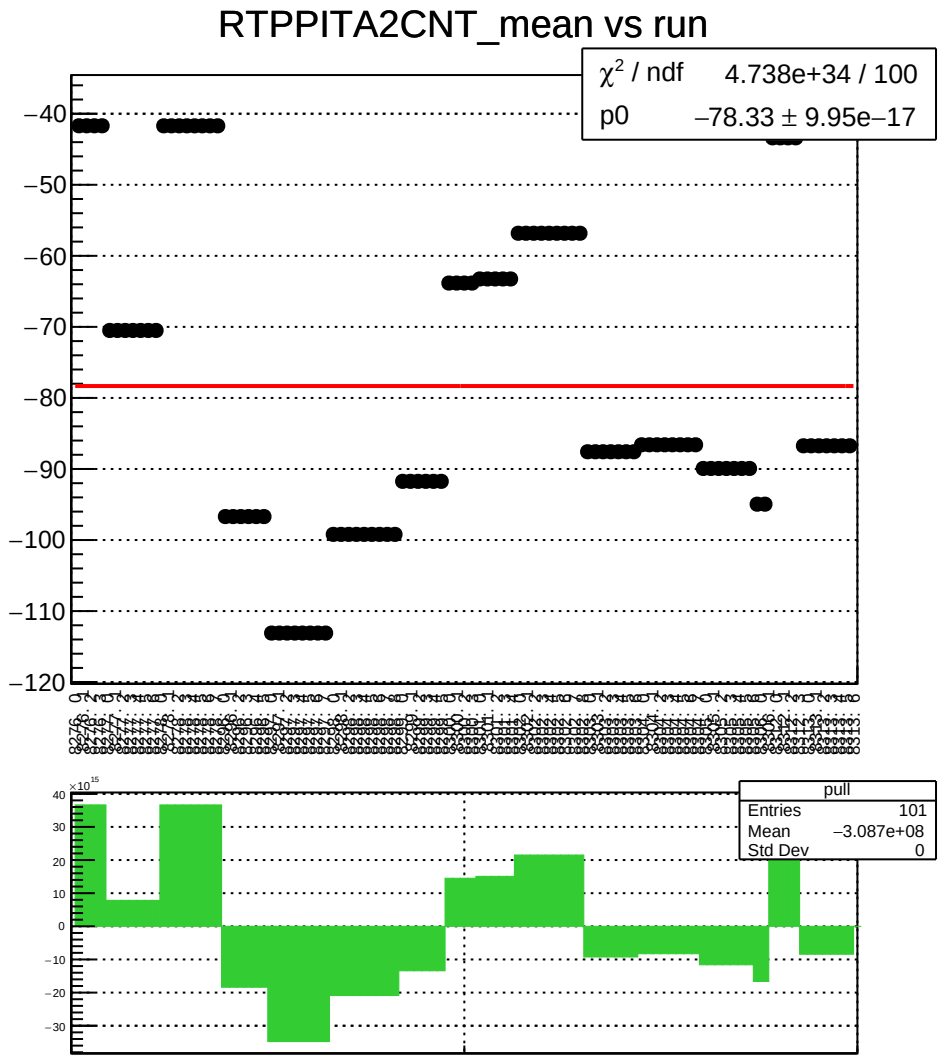

pull1D
Entries 101
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

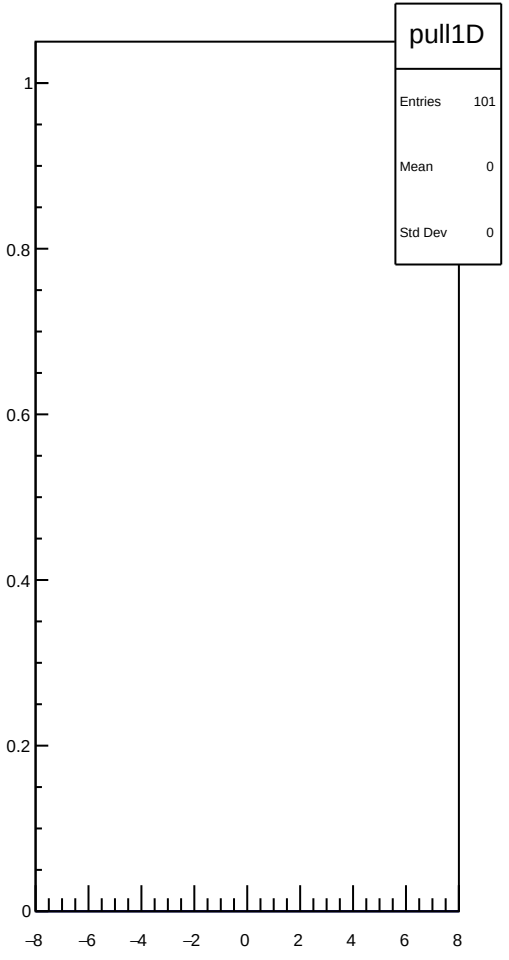

RTPAPOSVCNT_mean vs run
χ² / ndf 1.88e+08 / 100
p0 −1003 ± 9.95e−17
−1002
−1002.2
−1002.4
−1002.6
−1002.8
−1003
pull
Entries 101
Mean 50.5
Std Dev 29.15
0
−200
−400
−600
−800
−1000
−1200
−1400


pull1D
Entries 101
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 4.738e+34 / 100
p0 −78.33 ± 9.95e−17
−40
−50
−60
−70
−80
−90
−100
−110
−120
pull
Entries 101
Mean −3.087e+08
Std Dev 0
×10¹⁵
40
30
20
10
0
−10
−20
−30


pull1D
Entries 101
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPPITA2CNT_mean vs run
χ² / ndf 4.738e+34 / 100
p0 −78.33 ± 9.95e−17
−40
−50
−60
−70
−80
−90
−100
−110
−120
pull
Entries 101
Mean −3.087e+08
Std Dev 0
×10¹⁵
40
30
20
10
0
−10
−20
−30


pull1D
Entries 101
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8